NEW IN THIS ISSUE!

Manufacturer	Products
Allegro MicroSystems, Inc.	Hall-Effect Sensors and Power ICs . . . . See Pages 718-719
Amphenol Connex	RF Connectors, Adapters and Tools . . . . See Pages 309-312
DELTA	DC Axial Fans and Blowers . . . . See Pages 1794-1795
DIGITALVIEW	LCD Controller Boards and Accessories . . . . See Page 1912
FCi	MEG-Array®, DUBOX™ and AirMax VS® Connectors . . . See Pages 102, 118, 342
FOXElectronics	SMD Crystals, Thru-Hole Crystals and Oscillators . . . . . . See Pages 1064-1065
HRS HIROSE ELECTRIC CO.,LTD.	FH26, DF12 and LF Waterproof Shielded Connectors . . . . . See Pages 59, 70, 295
Micron	DRAM, SDRAM, DDR and DDR2 ICs . . . . See Pages 849-850
Panasonic	ZigBee™ Communication Module . . . . See Page 394
PHILIPS	RF Transistors, RFIDs, ARM 7 MCUs and SMPSs . . . See Pages 395-396, 496, 573
ROHM	Tantalum/Ceramic Capacitors and Resistors . . . See Pages 1279, 1375, 1392-1393
Signal Transformer	Printed Circuit/Chassis Mount Power Transformers . . . . See Pages 1810-1812
THIN FILM TECHNOLOGY SSM SUSUMU CO., LTD	Delay Lines, Coils, Attenuators and Resistors . . . See Pages 1102-1103, 1388-1391
TAIYO YUDEN	Bluetooth™ Modules and Ceramic Capacitors . . . . . . See Pages 400, 1360-1364
XILINX	SPARTAN™-3 FPGAs . . . . See Page 408

QUICK INDEX

(Detailed Index - See Pages 2-18)

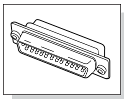	Connectors, Cable Assemblies, IC Sockets 22-377	INCLUDES SMT	A
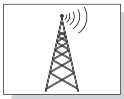	RF Product 378-404	INCLUDES SMT	B
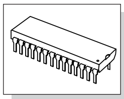	Semiconductors, ICs, Transistors, Diodes, Rectifiers 405-1021	INCLUDES SMT	C
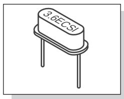	Crystals, Oscillators 1022-1073	INCLUDES SMT	D
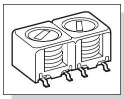	Inductors, Coils, Filters 1074-1164	INCLUDES SMT	E
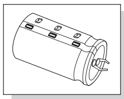	Capacitors 1165-1384	INCLUDES SMT	F
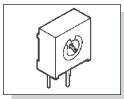	Resistors, Potentiometers 1385-1468	INCLUDES SMT	G
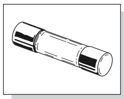	Circuit Protection Components and Thermistors . . . 1469-1530	INCLUDES SMT	H
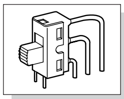	Switches, Relays, Electromechanical 1531-1667	INCLUDES SMT	I
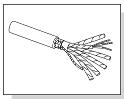	Wire, Cable & Access., Buzzers, Mics, Speakers 1668-1695		J
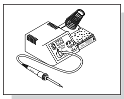	Prototyping, Tools, Solder, Test Equipment 1696-1772	INCLUDES SMT	K
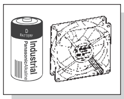	Batteries, Fans. 1773-1799	INCLUDES SMT	L
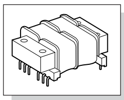	Transformers, Power Supplies. . . . 1800-1850	INCLUDES SMT	M
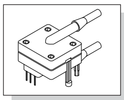	Sensors and Industrial Controls. 1851-1911	INCLUDES SMT	N
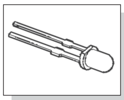	Optoelectronics, LEDs, LCDs, Lasers, Displays . . . 1912-1984	INCLUDES SMT	O

Items listed as digikey.com do not appear in the catalog, but appear on the Digi-Key Web Site.

A

- **AC Line Cords, Power Cords** ... 1158
- **AC Receptacles** ... 1159, 1162
- **Accelerometers** ... 505, 1694, 1898-1899
- **Accessories/D-Sub** (see Hardware)
- **Adapters** ... digikey.com
  - AC ... 1159
  - Audio ... 336
  - Auto Lighter Plug/Socket ... 1784
  - D-Sub ... 45-46
  - Fiber Optic ... 230-231
  - Keyboard ... 45
  - Modular ... 224-225, 228
  - Mouse ... 45-46
  - PLCC ... 374
  - Programming/Prototyping ... 405-406, 431, 443, 469, 488-489, 532, 1050
  - QFP to PGA ... 373
  - RF ... 309-312, 317-318, 322, 326-327, 329, 332, 389, 1760
  - SCSI ... 48
  - SOIC to DIP ... 373
  - SOJ to DIP ... 373
  - SSOP to DIP ... 373
  - TO to DIP ... 374
  - USB ... 50-51
- **Alarms** (see Buzzers)
- **Alligator Clips** ... 1763-1765
- **Alternistors** ... 1012, 1021
- **Amplifiers, Broadband** ... 388, 399-400, 952-953
- **Antenna** ... 380-381, 383-385, 389, 402, 864
  - Cellular/GPS ... 389
  - GPS Patch/Element ... 864
  - Magnetic Mount ... 389
  - Planar ... 380
  - RFid ... 384-385
  - SMD ... 380
  - Whip ... 380
  - Yagi ... 389
- **Attenuators** ... 230-231, 1388, 1423
- **Audio**
  - Connectors ... 336-341
  - Processors ... digikey.com
  - Transducers ... 1686, 1688-1691, 1695
- **Auto Accessories**
  - Cigarette Lighter Plugs/Socket ... 1784
  - Fuses and Fuseholders ... 1517

B

- **Backlight, EL Element** ... 1917
- **Backplanes** ... 1732
- **Ballast, Lighting** ... digikey.com
- **Balun** ... 1138-1139
- **Batteries**
  - Alkaline ... 1780-1781
  - Camera ... 1777, 1781
  - Carbon Zinc ... 1780-1781
  - Chargers ... 1773
  - Coin Cell ... 1776-1779, 1781
  - Computer ... 1777
  - Contact Cleaner ... 1780
  - Holders/Clips ... 1782-1784
  - Lead Acid ... 1773
  - Lithium ... 1776-1779, 1781
    - Rechargeable ... 1778
  - Nickel-Cadmium ... 1774-1775
  - Nickel-Metal Hydride ... 1774
  - Packs ... 1775
  - Telephone Packs ... 1780
- **Bezels** ... 1923
- **Blowers/Fans** (see Fans/Blowers)
- **Boards** (see PC Board Prototyping)
- **Boxes** (see Enclosures)
- **Bumpons** ... 1711
- **Bushings**
  - Shoulder ... 1727
  - Strain Relief ... 1713
- **Buzzers** ... 1685-1688, 1690

C

- **Cabinets** (see Enclosures)
- **Cable Assemblies**
  - Audio ... 340
  - BNC, Molded ... 326
  - CAT 5 and CAT 5e Patch ... 51, 228
  - CAT 6 Patch ... 228
  - CD-ROM ... digikey.com
  - Computer, Molded ... 44-51
  - DVI ... 141, 326
  - F Type (Television) ... 326
  - Fiber Optic ... 232
  - Flat Flex Cable ... 53-55
  - Flat Flex DF9 ... 74
  - HDMI ... 326
  - IDC ... 22-30, 34, 36-39
    - Card Edge ... 29-30
    - DIP ... 27, 39
    - D-Sub ... 22, 26, 34
    - PCB ... 28-30, 39
    - Pin/Plug ... 25, 36-38
    - Socket ... 24, 28-30, 36-38
  - IEEE 1284 ... 44
  - IEEE 1394 ... 49-50
  - Modular ... 218-220
  - Multi-Media ... 46-47
  - Power ... 340
  - Power Cord ... 45-47
  - RF ... 326, 330-331, 1761
  - S Video ... 47
  - SCSI Extension ... 48-49
  - Serial ATA ... 141
  - Stereo Extension ... 46-47
  - Termination Jumpers ... 22-29, 34, 36, 39
  - Twisted Pair ... 36-38
  - UFL ... 333
  - USB ... 49-52
  - VGA ... 44-45
- **Cable Clamps** ... 1713, 1717, 1727
- **Cable EMI Ferrite Cores** ... 1149-1151
- **Cable/Cord Grips** ... 1670
- **Cable Testers** ... 51, 220
- **Cable Ties**
  - Holders ... 1712, 1716-1717
  - Metal ... 1716-1717
  - Nylon ... 1713-1714, 1716-1717, 1724
  - Tak Ties, Reusable ... 1716
  - Twist Lock ... 1713, 1716-1717
  - Wire Clamp ... 1713, 1716-1717
  - Wire Tie Wrap ... 1711, 1714, 1717
- **Cable/Wire** ... digikey.com
  - Bus Bar ... 1677
  - Category 5e ... 1673
  - Coaxial ... 1672, 1677
  - Datacom Cable ... 1673
  - Fiber Optic ... 230, 233
  - Fire Alarm ... 1671
  - Flat Cable Jumpers ... 57-58, 63-64
  - Flat Flex Cable ... 56-58, 63-64
    - 0.020" (0.5mm) ... 57, 63
    - 0.040" (1mm) ... 57-58, 64
    - 0.050" (1.27mm) ... 56
    - 0.100" (2.54mm) ... 56
  - Hook-Up ... 1668, 1676-1677
  - Instrumentation ... 1671
  - Jumper Wires ... 1729
  - Kits ... 1676
  - LVDS ... 1912
  - Microphone, Shielded ... 1672
  - Modular ... 220
  - Multiconductor ... 1668-1671, 1673-1675
    - Shielded ... 1669-1670, 1673-1675
  - Multi-Paired, Shielded ... 1671, 1673-1674
  - Plenum ... 1669-1673, 1677
  - Ribbon
    - 0.025" (0.635mm) ... 41
    - 0.040" (1mm) ... 111
    - 0.050" (1.27mm) ... 41-43
    - 0.080" (2mm) ... digikey.com
    - 0.100" (2.54mm) Pre-cut Flat ... 43
    - High Flex .050" ... 42
    - Round Jacketed/Shielded ... 41
    - Twisted Pair ... 42
  - Sleeving ... 1676
  - Speaker ... 1668
  - Strippers ... 1668, 1738, 1742
  - Tinned Copper Flat Braid ... 1676
  - UTP High Speed Data/LAN Cable ... 1673
  - Wire Wrap ... 1738
- **Camera Modules**
  - CMOS Image Sensors ... 521
  - Evaluation Boards ... 521
  - Lens Kits ... 521
- **Capacitor Arrays** ... 1317-1318, 1340, 1348, 1363, 1369-1370, 1424
- **Capacitor Networks** ... 1424
- **Capacitors**
  - Aluminum Electrolytic ... 1165-1182, 1186-1251
    - Axial ... 1165-1168
    - Flatpack ... 1182
    - Screw Terminal ... 1186
    - Snap-In ... 1187-1193, 1249-1251
  - Aluminum Organic ... 1275
  - Bi-Polar ... 1169, 1197
  - Ceramic
    - Axial ... 1303, 1305-1306, 1314
    - Chip ... 1319, 1322-1323, 1379
    - Disc ... 1304, 1312, 1316-1319, 1371
    - Monolithic ... 1305-1310, 1313, 1346-1348, 1358
    - Multilayer ... 1305-1310, 1313-1315, 1346-1348, 1358
    - Multilayer Chip ... 1317-1318, 1321-1336, 1339-1345, 1348-1370, 1372-1378
    - Trimmer ... 1381-1384
  - Computer Grade ... 1186, 1194
  - Dry Film AC ... 1303
  - Electric Double Layer (EDLC) ... 1182-1185
  - EMI Suppression ... 1284
  - Feed Through ... 1339
  - Film ... 1282, 1285, 1288-1289, 1291-1294, 1296-1298, 1302, 1311-1312, 1379, 1384
  - Gold ... 1183-1184
  - Interference Suppressor ... 1311-1312
  - Kits ... 1770
  - Low Inductance ... 1339-1340
  - Metallized Polyester ... 1283, 1285-1290, 1295, 1311
  - Metallized Polypropylene ... 1284, 1290, 1297-1302, 1312
  - MICA ... 1379-1380
  - Microwave Chip ... 1328, 1337-1339
  - Niobium Oxide ... 1262
  - Polymer ... 1247-1248
  - Polyester ... 1280-1283
    - Aerogel Carbon Foam ... 1183
  - Tantalum ... 1252-1261, 1263-1279
    - Axial ... 1264-1265
    - Radial ... 1254-1255, 1263-1264
  - Thin Film RF ... 1338-1339, 1379
  - Trimmer ... 1382-1384
  - Ultracapacitors ... 1182
  - Variable ... 1383
  - Wet Tantalum ... 1264
- **Card Extenders** ... 1731-1732
- **Card Racks** ... 1732
- **Card Readers, Magnetic** ... 1723
- **Chokes** (see Coils/Inductors)
- **Circuit Breakers**
  - DIN Rail Mount ... 1527
  - Switch ... 1159, 1525-1529
  - Thermal ... 1526-1529
- **Clean Room Products**
  - Swabs and Applicators ... 1752
- **Clips**
  - Alligator ... 1763
  - Battery ... 1782
  - Fuse ... 1511-1512, 1517-1518
  - Nano/Micro ... 1758
- **Coils/Inductors** (also see Transformers) ... 1074-1101, 1103-1137, 1142-1144, 1147-1148
  - Air Core ... 1114
  - Chip ... 1103, 1120, 1125-1126, 1128-1129, 1147

Conversion Chart

inch *to* mm	inch x 25.4	mm *to* inch	mm ÷ 25.4	C° *to* F°	C x 1.8 + 32
inch *to* cm	inch x 2.54	cm *to* inch	cm x .3937	F° *to* C°	F – 32 ÷ 1.8
feet *to* meters	foot x .3048	meters *to* feet	meter x 3.28084	ounce *to* gram	oz. x 28.349

Voltage = Current x Resistance	Watts = Volts x Amps	VA = Volts x Amps

tera	giga	mega	kilo	-	milli	micro	nano	pico
$10^{(12)}$	$10^{(9)}$	$10^{(6)}$	$10^{(3)}$	10	$10^{(-3)}$	$10^{(-6)}$	$10^{(-9)}$	$10^{(-12)}$
t	g	M	k	-	m	µ	n	p

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  Chokes 1077-1078, 1087, 1096-1101, 1103, 1107, 1113-1114, 1133-1137, 1142-1143, 1147-1148
    CAN-BUS 1147
    Current Compensated 1147-1148
  Common Mode 1077-1078, 1082, 1114, 1133, 1142-1143, 1147-1148, 1809
    Arrays 1147
  Conformal Coated 1134, 1137
  Drum Core 1083-1084, 1104
  Film 1085
  High Current 1082, 1101, 1108-1109, 1112, 1121, 1124, 1127-1128, 1131-1137, 1147-1148
  High Frequency 1105-1106, 1109, 1113, 1119, 1134, 1136, 1147-1148, 1808-1809
  Kits 1108, 1110-1111, 1114, 1148, 1770
  Monolithic 1085, 1147
  Multilayer digikey.com
  Power 1074-1077, 1079, 1081-1082, 1098-1101, 1103-1106, 1108-1109, 1112-1113, 1116-1118, 1127, 1129-1130, 1147-1148
  Rod Core 1808
  Shielded 1080-1084, 1104, 1108-1111, 1113, 1115, 1117-1118, 1130, 1147
  Switchmode 1808-1809
  Thin Film 1095
  Toroidal 1082, 1104-1106, 1119, 1127-1128, 1131-1133, 1805-1806, 1808-1809
  Variable 1123
  Voltage Step-Up 1096
  Wirewound 1086-1094, 1103, 1108, 1121-1122, 1148

CompactPCI® Products 349-350, 1732-1733

Computer Equipment
  Cable Assemblies 44-51
  Keyboards 1552-1553
  KVM Switches 1768
  Trackballs 1552

Connectors digikey.com
  0.050" (1.27mm) 42, 75-76, 101, 185-188, 367
    Picoflex™ 42
  0.062" 146
  0.084" 146
  0.093" 147
  0.100" (2.54mm) 85, 112, 120-121, 123-132, 169-172, 174-177
  0.156" (3.96mm) 89, 99, 122-124, 133-137
  0.3mm 59, 65
  0.4mm 59, 69, 352
  0.5mm 59-63, 65-66, 70-72, 93
  0.6mm 73
  0.65mm 73
  0.8mm 66, 74, 100-101
  1.0mm 60-61, 63, 66-68, 74, 76, 93-94, 101, 193, 352
  1.25mm 64, 69, 77-78, 94
  1.5mm 94-95, 103
    Pico SPOX™ 103
  2mm 78-85, 95-98, 103-111, 349-351, 367
    Hard Metric 349-351
    Milli-Grid 104-106
    Sherlock 103
    Socket 367
    Z-Pack 349
  2.5mm 86-88, 98-99, 106
    SPOX 106
  4.2mm 151
  5.0mm 90
  5.08mm 144
  7.5mm 145
  7.92mm 90
  ATCA 350
  Audio 306, 336-341
  Backplane 342
  Backshells 34, 41, 186, 201-202, 212-214, 216
  Banana Plugs/Jacks 298, 1762-1764
  Binding Posts 298, 1729, 1762
  Blind Mate (BMI) 138-140, 144
  Board-to-Board 70-77, 82, 84, 93-94, 100-102, 104, 107, 187-188, 352
    Floating 102
  Card Edge 28, 35, 193, 341, 343-345, 1732
  Centronics 208, 214
  C-Grid 124-127
  Champ® 185, 190-192
  Circular
    97 Series 283-286
    Accessories 285-286, 301-302, 306
    Bayonet Lock 292-293
    C 091A 286
    C 16-1 287
    Coaxial 305
    DIN 305-308
    Metal 281-286, 290-296, 298, 306-307
    MIL-C-5015 283-284, 306
    MIL-C-26482 281-282
    Miniature 291-292, 294-296, 298-299
    Mini-DIN 307-308
    MS Series 282, 285
    Plastic 288-289, 292, 297, 299-302, 305-308
    PT Series 281-282
    Push-Pull Lock 290-292, 295-297
    RADSOK® 280
    Screw Lock 294-296
    Sealed 300-301
      .125" Powerband Contact 305
      Wire Entry Seal Kits 302
    Video 292-293
  CompactPCI® 349-350
  Delta 38
  DIN, Rectangular 342, 346-348, 350-351, 362
  D-Sub 22, 26, 34, 194-215
    Accessories 201-203, 215
    Backshells 213-214, 216
    Combination 217
    Dual Port 206-207
    Filtered 215
    Gender Changers 217
    Hardware Kits 199-200, 203, 215
    High Density 198, 204, 207, 215
    Press Fit 207
    Water Resistant 217
  Dynamic 178-182
  Edgecard (see Connectors - Card Edge)
  Ethernet (see Connectors - Modular)
  Eurocard 346-348, 362
  F Type 332
  FFC/FPC (Flat Flex) 56, 59-63, 65-68
  Fiber Optic 230-233
  Flexi-Block 249
  GBIC 357
  Hard Metric 349-351
  Hardware 191, 193, 214
  HDI (High Density Interconnect) 189
  HDMI 345
  Headers digikey.com
    0.100" (2.54mm) 31-33, 41, 116-121, 126-128, 131-132, 168, 173-174, 366, 369
    0.156" (3.96mm) 122, 133, 136-137
    1.27mm 367
    2mm 84-85, 104-105, 107-110, 367
    Female, 0.1" 112-116, 120, 168, 366-367, 369
    IDC 25, 35, 43
    Protected 31-33, 41
  Hoods, D-Sub 201-202, 212-214
  HSSDC2 357
  IDC Discrete
    D-Sub 197
    Socket 128-130, 133-135, 172
  IDC Ribbon Cable digikey.com
    2mm Socket 111
    Card Edge 28, 35
    Delta 38
    DIP 23, 27
    D-Sub 22, 26, 34
    Mini D 40
    PCB 28, 39
    Pin/Plug 25, 35
    Socket 24, 28, 35, 43
  IEEE 1394 (Firewire) 49-50, 52
  Industrial Ethernet 224, 226, 247
  Intra-Connector™ 362
  Interconnect Systems 178-182
  I/O 148-149
  Jig Assemblies digikey.com
  Jones digikey.com
  Jumpers
    Jumper Wires 91-92
    Jumpers (see Connectors - Shunts)
    Termination Jumpers 22-29, 34, 36, 39
  LAN 224, 229
  Mate-N-Lok® 153-165
  Memory
    Card Connectors 342, 353-356
    Compact Flash 353, 356
    DIMM 342, 353, 355
    Memory Stick 356
    PCMCIA Memory Card 353-354
    Secure Digital 353, 355-356
    SIMM 355
    TransFlash 356
  Metrimate 152
  Mezzanine (IEEE 1386) 140
  MicroCross™ DVI 141
  Micro-Fit 3.0™ 138-140
  Microphone 295
  Mictor 348
  Miniature Rectangular (MR) 167
  Miniature Threaded 325
  Mini-Fit
    BMI 144
    HCS 144
    Jr. 142-143
    SMC 144
    Sr. 145
  Modular 50-51, 220-229, 351
    70AD 351
    Adapters, Filtered 228-229
    Adapters, IBM Equivalent 224
    DSL Filter 229
    Ethernet 229
    Industrial 224, 226-227
    Power Over Ethernet 229
    RJ45 220-226, 228
    Spring-Loaded Contacts 368
  M-Series 183-184
  MT .100" 169-170
  MTA .100" and .156" 128-137
  MTE .100" 172, 176
  MX150L 287
  PanelMate 64
  Parallel Interface 185-187, 190-192, 208, 214
  PC Pins/Receptacles 370-371
  PCI Express 345
  Phono Jacks/Plugs 335-337, 340-341
  Power 102, 137, 145-149, 249, 337-340, 1160
  Power Edge™ 345
  Power Jack digikey.com
  Power Supply 89-90
  Rack and Panel 150, 189-190
  RADSOK® 280
  Retention Modules 193
  Reverse Polarity SMA 389
  RF
    Accessories 322
    Adapters 317-318, 322, 326-327, 329, 332
    BNC 309, 315-317, 320-324, 332
    Coaxial Switching 335
    Decoupled 324
    FAKRA 313
    FL (Finger Lock) 334
    H.FL 334
    MCX/MMCX Type 311, 318, 327, 329, 332, 335
    Miniature BNC 324
    Mini D Ribbon 40
    N Type 311, 317, 325, 332
    SHV 325
    SMA/SMB 309-310, 313-314, 319, 328-329
    SMK 329
    Terminator Plugs 324
    TNC 312, 317, 325, 332
    Tools, Crimp 312, 326
    Twinaxial 317
    U.FL 333
    UHF 318, 325, 332
    W.FL 334
  RITS 178
  RJ45 (see Connectors - Modular)
  Sabre™ 145
  Scotchlok™ 261-262
  SCSI 185-186, 357
  SCSI Terminator 48, 198
  Serial ATA 141
  SFP (Small Frame Pluggable) 357
  Shunts/Jumpers 85, 107, 110, 116-117, 137, 168
  SIM Card 352
  Smart Card 355, 358-359
  SmartMedia 352
  Sockets, IC (see IC Sockets)
  Soft Shell .062" and .093" 165-166
  Switch 1602
  System 5 192
  Telecom 190
  Television, "F" Type 332
  Terminal Blocks
    Accessories 240-241, 243
    Barrier Blocks 249-251
    DIN Rail 240, 242-243
    DIN Rail Mounted 240-242
    Eurostyle® 251
    PCB Mounted 234-238, 244-248, 251-256
  Terminals - Splices
    Board-in-Crimp 99
    Butt Splice 258-262, 266-268, 278
    Closed End 262, 266
    Crimp 257-279, 303-304
    Faston 269-275, 279
    Knife Disconnect 266
    PC Quick-Fit 1724
    Quick Connect 257-262, 269-275, 279
    Ring Tongue 258-264, 267-268, 276-279
    Snap Plug 257, 260, 262, 279
    Spade Lugs 257-258, 260-262, 265, 267-268, 278-279, 1724
    Spring Push 249
    Test Points 1724, 1729
    Wire Nut 260-261
    Wire Pin 258
  Termination Plugs 79
  Tip Jacks/Plugs 298
  Toy Car Battery 124
  Twin Beam digikey.com
  USB 49-52, 224, 229, 368
  VHDCI 357
  Water Resistant/Waterproof 96, 217, 287, 289, 292-295
  XFP 357
  Z-Pack 349

Contacts (see Connectors)

Controllers
  Brushless Fan Motor Controller 890-891
  Temperature 1926-1927

Converters, AC-DC
  (see Power Supplies)

Converters, DC-DC
  (see Power Supplies)

Cords
  Fan 1799
  Power 1158

Counters 1755, 1921-1922, 1926-1927, 1931
  Accessories 1926
  Frequency 1755

Crystals 1026-1037, 1042-1048, 1055-1058, 1063-1065
  Cylinder Type 1034, 1047, 1055
  Kits 1772
  Microprocessor 1058
  Tuning Fork 1064

Items listed as digikey.com do not appear in the catalog, but appear on the Digi-Key Web Site.

D

- **Delay Lines** 846, 1002
- **Detectors**
  - CO ..... digikey.com
  - Combustible Gas Leak ..... digikey.com
  - Refrigeration Leak ..... digikey.com
- **Development System Matrix** 459-467
- **Development Kits and Tools**
  - Accessories 467, 488, 492-532
  - Adapters 405-406, 431, 443, 469, 488-489, 532, 861
  - BASIC Stamp Kits 445
  - Daughter Boards 380, 386, 469, 526
  - Debug Tools 423, 467-468, 497, 512, 520
  - Demo Kits 379-381, 416, 431, 466, 491, 495, 498, 510, 519, 835, 862
  - Development Kits 380-383, 386, 391, 396-398, 400, 404, 409, 418, 422-423, 431-436, 441-442, 444, 481, 492, 494, 835
  - Emulators 423, 431, 469, 488-490, 497-498, 512, 520, 526, 532
    - EPROM 469, 490
    - Flash 469, 498
    - PIC 469
  - Evaluation Boards and Kits 378-380, 383, 386, 388, 392, 396-398, 400, 404, 416, 422-423, 431, 442, 466, 491, 494-495, 497-498, 502, 504-505, 507, 510, 512, 517, 519, 524, 526-527, 532-535, 550, 724, 767, 861, 890, 1885, 1898-1899, 1909
    - DSP 524, 526
    - RF 378-380, 383, 386, 392, 396-398, 400, 404
    - Sensors 1885, 1898-1899, 1909
  - LED Discovery Kit 1946
  - Oscillator 1049-1050
  - Programmers 383, 398, 405-406, 409, 411, 416, 418, 422-423, 431, 445, 467, 469, 488-492, 494-495, 498, 504-505, 512, 517, 519-520, 524, 526, 532
  - Programming Cable 409, 416
  - Reference Design Kits 380, 442, 835
  - Remote Control Design 490
  - Simulators 512
  - Software 466, 468, 502, 519, 532, 534
    - C-Compiler 466, 468, 491, 532
    - Freescale ..... digikey.com
    - Library ..... digikey.com
    - Module ..... digikey.com
  - Speech Recognition Kit 443
    - Programmable Interactive Module 443
  - Voice Record/Playback 444
  - Web Server Kit 490
- **Diacs** 910, 1014, 1021, 1496
- **Dials, Concentric Scale** 1444, 1457-1459
- **DIN Rail** 239-240, 242-243
- **Diodes/Rectifiers** 688, 882-883, 894, 900-904, 908-910, 918-919, 933, 935, 938, 944-950, 958, 963, 969-975, 977-1011, 1014
  - Arrays 688, 948, 995, 1001
  - Bridge 944, 949-950, 983, 987-988
  - FREDs/HexFREDs 918-919, 933
  - Hyperabrupt Varactors 882
  - Kits 1772
  - PIN (RF) 902, 909, 975
  - Schottky 883, 900-901, 909, 933, 938, 944-947, 958, 979-983, 990-997, 999, 1002, 1006-1008
  - Switching 883, 902-903, 908, 938, 958, 1000-1001, 1008-1011
  - TVS (see Transient Voltage Suppressors)
  - Variable Capacitance 894, 909, 958
  - Zener 883, 903-904, 910, 950, 963, 969-975, 977-978, 1001
- **Dispensers**
  - Liquid 1750
  - Tape/Wire Marker 1711, 1719
  - Wire 1738
- **Displays** ..... digikey.com
  - Backlights 1918
  - LCD (see LCDs)
  - LED (see LEDs)
  - Vacuum Fluorescent 1919
- **Duct Wiring** ..... digikey.com

E

- **EMI Suppression**
  - Arrays 1144, 1147, 1152
  - Capacitors 1284
  - Common Mode Chokes 1147-1148
  - Ferrite Cable Cores 1149-1151
  - Ferrite Chips 1144-1147, 1157
  - Filter Capacitor Type 1145
  - Filters 1145, 1147-1154, 1162-1164
  - High Current 1146-1148
  - LC Combined Chip 1145, 1152
  - Shields 1149
- **Emulators** (see Development Tools)
- **Enclosures/Boxes/Racks**
  - Accessories and Hardware 1696, 1698-1700, 1702, 1704-1707, 1709-1710
  - Cabinets 1697, 1700-1703
    - Conductive 1697
  - Cases/Boxes 1696-1703, 1708-1710
    - Aluminum 1696, 1700-1702, 1708-1710, 1762
    - E.M.I. 1698-1700
    - Plastic 1696-1700, 1702-1703, 1708-1710, 1762
  - Racks 1704-1707
  - Watertight/Airtight Cases 1697-1702
- **Encoders** ..... digikey.com
  - Digital Contacting 1618
  - Mechanical 1615-1617
  - Modular 1616
  - Navigation 1616
  - Optical 1615-1616, 1618
  - Rotary 1615-1618
  - Universal 1552
- **EPROM Eraser** 1757
- **ESD Products** ..... digikey.com
  - Suppression 1473, 1478, 1504-1505, 1514
    - Arrays 1504
    - Multilayer Chip 1473, 1478
  - Surgector ..... digikey.com
    - Arrays ..... digikey.com
  - Transient Voltage Suppressors (TVS) 1473-1474, 1495, 1504
  - Varistors/ZNRs 1469-1473, 1478

F

- **Fans/Blowers**
  - AC 1785, 1791, 1793, 1798
  - Accessories 1798-1799
  - Blowers 1789, 1791, 1793, 1795
  - Chip Cooler 1793
  - DC 1786-1797
    - Axial 1787-1789, 1792, 1794
    - Brushless DC 1790, 1792-1793, 1796-1797
    - Hydro-wave Bearing (HWB) 1787-1789
    - Tachometer Output 1796-1797
    - ThermaPro-V 1797
  - Finger Guards 1785-1789, 1794-1799
- **Fastening Systems**
  - Hook and Loop 1712
  - Velcro® ..... digikey.com
- **Ferrites**
  - Bead Cores 1137, 1141, 1147-1148, 1150-1152, 1157
  - Chip Arrays 1144, 1147
  - Chips 1144, 1146-1147
  - Clamp-On 1149, 1151
  - Common Mode Chokes 1147-1148
  - Cylinder 1150-1151
  - Differential Mode 1146-1148
  - EMI Discs and Plates 1149
  - Flat Core 1149, 1157
  - Flexible Ferrite Material 1141
  - High Current 1146
  - High Frequency Cores 1151
  - Kits 1146, 1148-1151
  - Low Frequency Cores 1150
  - Ribbon Cable 1149
  - Ring Core 1150-1151, 1157
  - Split Cores 1149, 1151
- **Ferrules**
  - Crimp 200, 202
  - Fiber Optic 230
  - Split-Ring 202
  - Wire 239
- **Fiber Optic**
  - Accessories ..... digikey.com
  - Adapters 230-231
  - Amplifiers 1897
  - Attenuators 230-231
  - Bare Cable ..... digikey.com
  - Cable 230, 232-233, 1897
  - Connectors 230-233
  - Emitters/Detectors 232
  - Ferrules 230
  - Kits 231
  - LEDs 233
  - Receivers 232-233
  - Switches 231-232
  - Terminators 230-231
  - Test Equipment 231
  - Tools 231
  - Transmitters 233
  - Transmitting/Receiving Modules 233
- **Filters**
  - 3-Terminal 1141-1142, 1145
  - Bandpass 1072, 1154
  - Ceramic, FM 1071
  - Common Mode 1143, 1147-1148, 1152-1154
  - Crystal, Monolithic 1066-1067
  - Dielectric 864
  - Digital Noise 1146-1151, 1153-1154
  - Discriminator 1071
  - DSL (CPE) 229
  - EMI 1138, 1145-1152, 1154, 1164
  - Ferrites 1137, 1143-1144, 1146-1153
  - Helical 1140
  - LC 1152
  - Line 1154-1157, 1162-1164
  - Mains Suppression 1839
  - Noise Filter
    - 2 Mode 1153
    - Common Mode 1147-1148, 1152-1153
  - RF Line 1162-1163
  - SAW 1067, 1070, 1072-1073
  - Thin Film 1070
- **Fish Paper** ..... digikey.com
- **Flashlights** 1780-1781
- **Fuses** 1497-1511, 1514-1523, 1907
  - 1/4” x 1-1/4” 1509-1510, 1516
  - Alarm Indicating 1508, 1518
  - Automotive 1508, 1517
  - Axial 1506-1507, 1515-1516, 1520-1521
  - Blade 1508, 1517
  - Clips 1511-1512, 1517
  - Covers 1511
  - Glass 1510, 1516
  - Hazardous Area 1508
  - Holders 1511-1513, 1515, 1517-1518, 1521-1523
    - Automotive 1511, 1517
    - Blocks 1512
    - Clips 1511-1512, 1517-1518
  - Kits 1505-1510, 1521-1523, 1770
  - Metric 1507-1508, 1517, 1519, 1523
  - Multi-Meter 1518
  - Picofuse 1506-1507, 1521
  - Radial 1508, 1515, 1520-1522
  - Resettable 1499-1504, 1521, 1907
  - SMD 1505-1508, 1514, 1519-1521
  - Telecom 1498, 1505, 1514, 1519, 1521
  - Thermal Cutoffs 1530
  - Thin Film 1907

G

- **Gaskets** 203
- **Generators** ..... digikey.com
  - Color ..... digikey.com
  - Function 1755
  - NTSC 1757
  - RF ..... digikey.com
- **Graphite Sheets** 871
- **Grommets** 203, 1712, 1725
- **Gyroscopes** 1898

H

- **Hardware** ..... digikey.com
  - Bumpers 1727
  - Bumpons 1711
  - Bushings
    - Shoulder 1727
    - Strain Relief 1713
  - Cable Clamps 1713, 1716-1717, 1727
  - Cable Wall Brackets 1765
  - Casters ..... digikey.com
  - D-Sub Connectors 193, 203, 214-215
  - Fuseholders 1511-1513, 1515, 1517-1518, 1521-1523
  - Grommet Edging 1717
  - Grommets 203, 1712, 1725
  - Handles ..... digikey.com
  - Hex Nuts 1728
  - Insulators 873, 1714, 1718
  - Kits 1728, 1772
  - Knobs, Instrumentation 1458-1460
  - LED Holders 1718, 1725, 1943-1944
  - Mounting Brackets 1725
  - Nuts ..... digikey.com
  - Rivet Tool 1728
  - Rivets 1728
  - Screws ..... digikey.com
    - Machine 1728
    - Sheet Metal 1728
  - Spacers/Standoffs 1718, 1725-1727
  - Spiral Wrap 1717
  - Support Posts 1713, 1716-1717
  - Tubing, Corrugated Loom 302, 1717
  - Washers 1727-1728
- **Headers** (see Connectors - Headers)
- **Heat Guns** 1678
- **Heat Shrink** 1678-1682
  - Butane Torch 1678
  - Fabric 1678
  - Heat Guns 1678
  - Kits 1680-1682, 1772
  - Tape 1682
  - Tubing 1679-1682
- **Heat Sinks** 867-871, 873, 1946
  - BGA 870-871
  - Graphite Sheets 871
  - Grease 868, 870-871
  - Pads 870, 872-873

I

- **IC Sockets** (also see Sockets)
  - Adapters
    - IC 373-374
    - PLCC 374
  - Collet 372-373
  - Covers 372
  - DIP 360, 362-365, 372, 375
  - Horizontal 372
  - Lock Eject 373
  - Low Profile 364-365
  - Machine Pin 362, 364-365, 372, 375
  - Miniature Spring 361
  - Open Frame 360, 363, 365, 372
  - Oscillator 372
  - PGA 363, 374
  - Pin Line 373
  - PLCC 362-363, 374, 376
  - PQFP 360
  - SIP 360
  - Socket Carrier 363, 377
  - Solder Tail 360, 363-365, 373, 375-376
  - Test 360, 374
  - Type "A" LCC 377
  - Vertical 364, 372
  - ZIF 374, 376
  - ZIP DIP 376
- **IC Test Clips** 377
- **Inclinometers** 1899
- **Inductors** (see Coils/Inductors)
- **Insulators**
  - MICA 873
  - Nylon 1714
  - Vinyl 1763
- **Integrated Circuits/ Semiconductors** .... digikey.com
  - AC-DC Converters 833
  - A/D and D/A Converters, DAS 474-475, 477, 534, 542-548, 558, 568, 600-610, 759, 799, 815-818, 829-830, 837-838, 840-841, 843, 845-846
  - Amplifiers
    - Audio/Video 536-538, 540, 567, 578, 580, 582, 586, 594-596, 716, 730-731, 758, 769-770, 778, 780-782, 784-785, 801, 822, 840
    - Current Feedback 537-538, 540, 579, 581-583, 733, 757-758, 784, 799-800
    - Differential 536, 574-576, 584, 802
    - Instrumentation 538-540, 574-575, 582, 802, 844
    - Isolation 539, 575
    - Logarithmic 539, 577, 586
    - Op Amps 477-478, 536-541, 574-594, 596, 706, 708-709, 712-713, 725-727, 730-733, 749-750, 756-758, 767-770, 775, 779, 782-786, 794, 797-802, 824-826, 832, 837, 839-840, 844
    - Programmable Gain 479, 582, 585, 802
    - Variable Gain 541, 596, 784
    - Voltage Feedback 537-538, 579-581, 583-584, 757, 782-783
  - Analog 822
  - Analog Computation Circuits 541
  - Analog Video Products 890
  - ATE and Time Domain 542
  - Audio, Analog/Digital 541
  - Battery Management 473, 670-672, 703, 734, 776, 790, 812, 822, 842-843, 847
  - Bridge Controllers/Drivers 564, 725
  - Buck Regulators 672-673, 706-707, 716, 747, 764, 770, 772, 775, 835, 836
  - Buffers 536, 557, 574, 703-704, 709-712, 716-717, 719, 733, 764, 784, 840, 855, 890
  - BUS Solutions 596-597
  - Capacitance Measurement 554
  - CCD Signal Processors 542, 598
  - Clock Peripherals 557, 567, 596-597, 703, 711-712, 714, 729, 752, 759, 855
  - Codec 398, 444, 533, 542, 574, 599-600, 701-702, 725, 729, 797
  - Comparators 479, 536, 598-599, 703, 708-709, 726-727, 731-732, 768-769, 783-785, 802-803, 832, 842
  - Counters/Timers 566, 709-710, 712-713, 727, 732, 837, 845
  - Current Mirror/Monitors 890
  - Current Regulators 775
  - Current Sensors 719, 891
  - Data Communication .. 542, 567-600, 766
  - Data Conversion (see ICs - A/D and D/A Converters)
  - Data Transfer, USB to UART 441
  - Data Transmission (see ICs - Interface)
  - DC-DC Converters 471, 573, 673-677, 715-716, 727, 747-748, 772, 774-777, 804-811, 822, 833, 841-843, 891
  - Digital Logic
    - 4000 .... 572, 617-619, 747
    - 65MLVD 666
    - 7400 744
    - 74ABT/ABTE/ABTH/ABTR 569, 619-622, 746
    - 74AC/ACQ/ACT/ACTQ 622-626, 709-710, 719, 746, 752
    - 74AHC/AHCT/AHCU 569, 626-629
    - 74ALB 630
    - 74ALS 630-631, 744
    - 74ALVC/ALVCH 569, 631-634, 719, 751
    - 74ALVTC/ALVTH 634, 751
    - 74AS 634, 744
    - 74AUC/AUCH/AUCU 634-637
    - 74AUP 637-638
    - 74AVC 638-639, 751
    - 74BCT 639
    - 74C/CBT 640-644, 745
    - 74F 572, 644-645, 746-747
    - 74FB (Future Bus) 645
    - 74FCT 645, 751
    - 74GTL/GTLP/GTLPH 645-646
    - 74HC/HCT/HCU 569-571, 646-652, 710-711, 719-721, 745, 752-753
    - 74HSTL 652
    - 74L/LCX 711, 721, 744, 753-754
    - 74LPT 751
    - 74LS 652-653
    - 74LV/LVC/LVCH/LVCU 571-572, 653-663, 721
    - 74LVQ 744
    - 74LVT/LVTH 572, 662-666, 721, 746
    - 74LVU 666
    - 74LVX 721, 744, 754
    - 74LX 721
    - 74S 666, 744
    - 74SSTL/SSTU/SSTV 666-667
    - 74TTL 667
    - 74V 721-722
    - 74VCX/VCXH 722, 745, 751
    - 74VHC 711, 722, 745, 754-755
    - 74VMEH 667
    - 95HS 746
    - Bus Switch Products 640-645, 752
    - FMS 747
    - HC/HCF 724
    - LMOS 755-756
    - Microgate Family 629-630
    - SOTiny™ 751
    - TinyLogic™ HS/UHS Series 749
  - Digital Audio Processors 535, 725
  - Digital Radio 667
  - Drivers 480, 552, 558, 565, 573, 668-670, 703-704, 712, 716-719, 725-730, 734, 747-748, 762-764, 774, 776, 778, 782-783, 790, 794, 796, 826, 834-837, 846
    - Latched 704, 719
    - LCD/LED Drivers ... 480, 552, 558, 565, 573, 668, 703, 716-717, 719, 727, 729-730, 747, 774, 776, 782-783, 790, 794, 796, 826, 846
    - Stepper Motor 670, 718-719, 725-726, 730, 734, 826
  - DSP (Digital Signal Processor) ... 499-502, 518, 524-526, 535, 725
  - Energy Measurement 477, 554
  - ESD/EMI Protection 821
  - Fan Management 480, 550, 703
  - Fiber Optics 550
  - Filters ... 668, 717, 723-725, 734, 803, 839
  - Hall Effect Sensors 718, 1879
  - IEEE1394 .... 569, 597
  - Integrated Power Switching Controllers 742-743
    - Design Kits 742
  - Integrators 668
  - Interface
    - ADSL Drivers 610
    - CAN 568, 820, 855
    - Controllers 480, 535, 563, 565, 567, 669, 713-714, 718, 733-734, 764, 776
    - Ethernet Protocol ... 480, 535, 563-564, 610-611, 702-703, 830
    - Hot Swap Control 669, 703, 713, 716, 726, 782, 812-813, 822
    - I^2C 568-569, 820
    - LCD 611
    - LV/LVCP/LVDM 611, 712, 714
    - LVDS 569, 611-612, 704, 751, 794, 831-832
    - LVDT 612
    - LVP 612
    - Memory 573
    - PECL 597, 704, 711-712, 714
    - Peripherals 480, 565, 567, 669-670
    - PCI 563-564, 597
    - PLL (Phase Locked Loop) 558-559, 712, 714, 769
    - PWM (Pulse Width Modulator) 472, 683-688, 706-707, 715-716, 718-719, 727, 733-734, 749, 764, 775, 782, 813, 835, 836, 842
    - RS232/422/423/485 .... 569, 612-616, 728-729, 743, 818-820, 831, 838-840, 843-844
    - SCSI 616
    - Transmitters/Receivers 441, 550-552, 563-564, 610-617, 709-710, 728, 762-764, 818-820, 838-839, 843, 855
    - UARTs 569, 600, 829, 843
    - USB Interface 557, 567-568, 600, 707, 717, 748
  - I/O Expanders 572-573, 668
  - IrDA 600
  - Isolators 677
  - Lighting 890
  - Linear 477-479, 668-669, 747-749, 756, 766-794, 891
  - Logarithmic Converter 548
  - Logic Translation 573
  - Memory Products (see Memory)
  - Microcontrollers
    - 8051 Architecture 428-429, 431, 437-440, 495-497
    - ARM 422, 496, 504, 535
    - AVR 423-427
    - BASIC Stamp 445
    - BlueStreak 443
    - CAN 428
    - Expansion Modules 423
    - Flash 428-430, 437-440, 448-458, 484-488, 491-492, 494-495, 498-499, 503, 506-510, 520, 526-527, 529-532, 767
    - MCS® 51/251 561-562
    - MCS® 96 562
    - MP3 428
    - OTP 446-447, 482-483, 489-490, 499, 506-507
    - PIC 446-458
    - PRoC 383
    - Smart Card 428
    - USB 429, 438, 441, 493
  - Microprocessors 433-436, 512-517, 558-563, 565-567
    - Modules 434, 436
  - Mixed Signal Product 474-477
  - MMIC 394, 828, 902, 952
  - Motion/Motor Control 552
  - Multiplexers/Demultiplexers 550-551, 669, 703-704, 709-713, 717, 764, 784, 820, 826, 837, 839-840, 844
  - Multipliers/Dividers 551, 669
  - Potentiometers, Digital 476, 548-550, 760-762, 845, 847-848, 862
  - Power Control/Management 470-474, 552-554, 565-566, 573, 669-670, 741-742, 765, 791, 803-813, 821, 826-827, 833-835, 837, 890-891
  - Power Modules 749
  - Power Supply Products 573, 670-701, 841-842
  - Precision Ground Reference 701
  - Programmable Logic
    - CPLDs 409-410, 415, 417-418, 492
    - FPGAs 408-409, 411, 413-414, 419-420
    - FPSLIC 422
    - PGAs 701
    - SPLDs 420, 492
  - ProSLIC 442
  - Q Filter, Variable 890
  - Real Time Clocks 574, 701, 759, 765, 830, 845-848
  - Relays 1655
  - RF Products (see RF/IF)
  - Ring Controllers 600
  - RMS-to-DC Converters 548
  - Sensor/Signal Conditioning 554-555
  - Signal Controllers/Processors 555, 574, 701-702
  - Smoke Detection ICs 559
  - SONET Transceivers 600
  - Specialized 555, 566, 574, 670, 749-750, 765, 820-822, 827-828, 832, 837-846, 862, 890-891
  - Surge Protection 821
  - Switches
    - Analog 556-558, 616-617, 717, 729, 748, 751, 765-766, 828, 837, 839, 845
    - Bus 557, 569, 752
    - Crosspoint 557, 704, 748, 794
    - PCMCIA 706, 813
    - Power Distribution 681-683, 703, 707, 723, 728, 1500
  - Switching Regulators . 473, 706-708, 713, 715, 725, 734, 770-772, 774, 776, 782-783, 804-809, 821, 835-836
  - Telecommunications 559, 797
    - ISDN U-Interface Transceivers 559, 797
    - PCM Codec-Filters 559
    - Speaker Phone Circuits 559
  - TFT Displays, Small 862
  - Thermal Management 479-480, 550, 846-848
    - MICA Insulators 873
    - Temperature Sensors ... 479, 550, 554, 566, 574, 702, 727, 767-769
  - Thermostats 767, 847-848
  - Timers 574, 702, 707, 769, 783, 837, 845, 890
  - Tone Decoder .... digikey.com
  - Video 550, 568, 600, 766, 796, 813
  - Voice Record/Playback 443-444
  - Voltage Converters 774, 811, 841-842
  - Voltage Detectors 471, 713, 729, 796, 827, 846, 863
  - Voltage Monitors 470-471, 555-556, 677-680, 707, 709, 729, 731-732, 734-735, 758-759, 770, 777-778, 789, 794, 810-811, 841-842, 845-846, 848
  - Voltage References 553-554, 688, 706, 712, 731-733, 766, 768-769, 778-780, 815, 817, 822, 842, 845, 888-889

Items listed as digikey.com do not appear in the catalog, but appear on the Digi-Key Web Site.

Voltage Regulators 471-472, 552, 573, 689-701, 705-709, 711-715, 722-723, 725-727, 734-737, 743-744, 747, 749, 764, 768-776, 778, 783-784, 786-794, 796-797, 803-810, 821-822, 824, 826-829, 832-833, 835-836, 841-843, 846, 864, 887-888, 1909
Voltage Resets 737-738
Voltage-to-Current Converter 610
Volt-to-Freq/Freq-to-Volt Converters 476, 548, 610, 775
Waveform Generators 554

Inverters
  CCFL and UV 1916-1917
  EL Backlighting 1917
  Power 1769

I/O Modules 1653-1654, 1665-1666

Isolators (see Optoisolators)

J

Jumper Wire Kits 1729

K

Keyboards 1552-1553

Keypads 1551-1553

Kits
  BASIC Stamp Kits 445
  Capacitors
    Aerogel Carbon Foam 1183
    Aluminum Electrolytic 1172, 1174, 1181, 1211, 1770
    Ceramic 1328, 1770
    Film 1282, 1293, 1295-1296, 1311, 1770
    Polyester 1280, 1283, 1770
    Specialty Polymer 1210-1211, 1770
    Supercapacitor 1183
  Chokes 1148
  Connector 124, 146-147, 192, 261-262
  Crimp Wire Ferrules 239
  Diodes 972-973, 1772
  EEPROM Kits 1770
  EMI Components 1149-1151
  Fabri-Level™ Switch 1911
  Ferrite Cable Cores 1150-1151
  Ferrite Chips Beads 1146
  Fiber Optic 231
  Fuses 1505-1510, 1521-1523, 1770
  Hardware 1728
  Heat Shrink Tubing 1680-1682, 1772
  Inductors 1108, 1110-1111, 1770, 1808-1809
  Miscellaneous Kits 1772
  PC Prototyping Boards 1737
  Potentiometers 1445-1450, 1452, 1454, 1456, 1464, 1468, 1770-1771
  Resistors 1389-1391, 1394-1397, 1401-1402, 1771-1772
  Sensors 1890-1891
  Spacers/Standoffs 1725-1726
  Switches 1588, 1625, 1772
  Terminals, Insulated 261-262
  Termination digikey.com
  Test Lead 1763
  Thermistors 1904-1905, 1772
  Zener Diodes 972-973, 1772

Knobs 1458-1460

L

Labels digikey.com
  Computer Printable digikey.com
  Heat Shrink 1719
  Safety digikey.com
  Thermal Transfer 1719
  Wire Marker 1719
    Dispenser 1719

Lamps
  Assemblies 1917
  Bracket 1767
  Bulbs 1767
  CCFL 1917
  Magnifiers 1767
  UV 1917

Laser
  Accessories digikey.com
  Diode digikey.com
  HE NE digikey.com
  Receiver digikey.com
  WBS digikey.com

Laser Diodes
  Modules
    Adjustable Focus 1933
    Infrared 1933
    Laser Line Generator 1933

LCDs
  7-Segment Displays 1918, 1920, 1934
  Character Display Modules 1915, 1918
  Controller Boards & Accessories 1912
  Dot Matrix Modules 1920
  Graphic Display Modules 1914, 1920
  Organic (OLED) Displays 1915
  TFT Displays 1912, 1914, 1920
    Development Kits 1914

LEDs 1868-1870, 1872, 1875, 1877-1878, 1881, 1932, 1934-1984, In-Bk-Cvr, Bk-Cvr
  7-Segment Displays 1934, 1955, 1958, 1960, 1976, In-Bk-Cvr
  Alphanumeric Displays 1960, 1979
  Arrays/Light Bars 1942, 1946, 1955, 1959
  Assemblies 1966, 1969
  Bar Graph Array 1959, 1976, 1984
  Based 1945, 1947
  Bi-Color 1936-1940, 1942, 1944, 1948-1954, 1956-1958, 1961-1965, 1968-1969, 1973, 1981-1982, 1984
  Blue 1935, 1939-1941, 1943, 1945-1952, 1954, 1956-1957, 1961-1962, 1964, 1970-1975, 1978, 1980-1982, In-Bk-Cvr
  Caps digikey.com
  Circuit Board Indicators 1967
  Cluster 1942, 1944
  Dot Matrix Display 1959
  DSP 1935
  Fiber Optic 233
  Flashing/Blinking 1937, 1942, 1966
  Heat Sinks 1946
  Hexadecimal Displays 1979
  High/Mega Brightness 1935, 1942, 1954, 1961-1962, 1964, 1967, 1974-1975, 1980-1982, 1984, In-Bk-Cvr
  Holders/Mounts 1718, 1725, 1943-1944
  Incandescent Replacement 1945, 1947
  Infrared 1868-1870, 1872, 1875, 1877-1878, 1881, 1932
  Lenses 1946, 1967
  Level Meters 1984
  Low Battery Indicators 1942
  Modular 1966
  Modules 1718
  Multi-Color 1949-1953, 1969
  Numeric Displays 1979, In-Bk-Cvr
  Prisms 1948
  RGB (Red/Green/Blue) 1936, 1941, 1946, 1948, 1969, 1975
  Smart Displays 1979
  Spacers 1712, 1725
  Tester Box 1942
  White 1935, 1945, 1947-1948, 1950-1951, 1954, 1957, 1962-1963, 1967, 1970-1971, 1974-1975, 1980
  Wide Angle 1984

Light Pipes 1718, 1938, 1953, 1967

Lights
  Flashlights 1780-1781
  Worklights 1767

Line Conditioners 1768

Lockouts digikey.com

M

Magnetic Card Readers 1723

Magnets 1624

Magnifiers 1766-1767

Manometer, Digital digikey.com

Memory
  Cards 740, 865-866
    Compact Flash 865-866
    DataFlash 866
    Flash Disks 865
    iDOC 865
    PCMCIA 866
    Secure Digital 740, 866
    uDOC 865
  Integrated Circuits/Semiconductors
    Cryptomemory 857-858
    DataFlash, Serial 861, 866
    DDR 849-850, 866
    DDR2 850, 866
    DiskOnChip 861
    EEPROM, Parallel 764-765, 858-859
    EEPROM, Serial 573, 738-739, 763, 833, 850, 852-857
    EPROM 738, 858
    FIFO 667-668, 855
    Flash 564-565, 739-740, 850, 859-862
    NVRAM 740-741, 847
    NVSRAM 846-847
    PROM, Serial 411
    PSRAM 850
    SDRAM 849, 866
    SRAM 573, 740, 850, 854-855, 862
  Memory Interface 573
  Modules 866

Meters
  Automotive/Industrial 1928-1929
  Capacitance Meters 1757
  Current Meters 1922
  Digital Multimeters 1756, 1758-1759
  Hour 1927
  Megohmmeter digikey.com
  Multimeters 1756, 1759
  Panel Meters 1922-1924, 1926-1931
    Analog 1924
    Cable Assemblies 1931
    Digital 1922-1924, 1928-1931
    Power Supplies 1931
  Parts Testers 1757
  Process Time Meters 1922, 1930
  Rate Meters 1922
  Thermometers 1759
  Volt/Ammeter 1929
  Voltmeters 1922, 1928-1929

Microcontrollers
  (see ICs - Microcontrollers)

Microphones
  Cable 1672
  Electret Condenser 1692-1693
  Holders 1692-1693
  Magnetic 1694

Microprocessors
  (see ICs - Microprocessors)

Microscopes 1766

MOSFET/MOSFET Drivers 473-474, 552, 680-681, 706, 716, 718, 730, 774, 786, 813, 835, 884-886, 896-897, 907, 914-916, 920-934, 936-937, 939-943, 951, 955, 966, 1003

Motors
  Geared 874
  Stepper 874

MOVs (see Varistors)

O

Optoelectronics digikey.com
  Ambient Light Sensor 1870
  Infrared Detectors 1869-1870
  Infrared Emitters 1868-1872, 1875, 1877-1878, 1881, 1932
  Interrupter Modules 1869
  IrDA Transceiver Modules 1932
  Light Detectors 1868
  Logic Detectors 1869
  Optical Sensors 1870, 1873, 1875-1876, 1878, 1932
  Photoconductive Cells 1871
  Photo Detectors 1869, 1871-1872, 1875
  Photo Diodes 233, 1868-1869, 1871-1872, 1877, 1881
  Photo ICs 1872
  Photointerrupters 1867, 1870, 1872, 1878, 1881
    Reflective 1867, 1872, 1878, 1881
  Photo Transistors 1868, 1872, 1875, 1877-1878, 1881
  Remote Control Receivers 1932
  Touch Screens 1912

Optoisolators/Photocouplers
  Digital 1861, 1866
  High Speed Output 1853, 1855, 1864-1865
  Logic Output 1851, 1855, 1857, 1862-1865
  Magnetic 1861
  Photo-IC Output 1851
  Photo-Transistor Output 1557, 1851-1856, 1858-1859, 1862
  Photovoltaic 932, 1855
  SCR/Triac Output 1851, 1857
  Thyristor Output 1855, 1860

Oscillators 1022-1025, 1038-1042, 1048-1054, 1058-1063, 1065-1066
  Clock 1022-1025, 1059-1060, 1066
  Clock Smoother Module 1061
  Crystal 1022, 1025, 1042, 1051-1054, 1065
  Ovenized (OCXO) 1063
  Programmable 1048-1051
  Silicon 1063
  Sockets 1023-1024, 1053, 1060
  Synchronous Clock Generators 1061
  Temperature Compensated (TCXO) 1025, 1041, 1063, 1065
  Timing Modules 1061
  Voltage Controlled (VCXO) 1025, 1039, 1042, 1054, 1058, 1061
    Temperature Compensated (VCTXO) 1039

Oscilloscopes 1755, 1758
  Probes 1755, 1758

P

Panel Meters (see Meters)

Paper
  Thermal Printer 1720
  Toner Transfer 1736

PC Board Prototyping
  Adapters, Application Specific 1737
  Etching Equipment 1735-1736
  Prototyping Accessories 1711, 1725, 1730-1737, 1746, 1752, 1754
    Cleaners & Cloths 1711, 1746, 1752
    DecalPRO Kit 1736
    Etch Resist Pens 1735-1736
    PCB Drill Bits 1735

    - PCB Fabrication Kit 1736
    - Swabs and Brushes 1735, 1752
    - Wipes 1746, 1752, 1754
  - Prototyping Boards 1725, 1730, 1732-1737
    - Copper Clad Boards 1734-1736
    - Solderless Breadboards 1729, 1733-1734
  - Toner Transfer Paper 1736

- **Photocouplers** (see Optoisolators)
- **Photo Detectors** (see Optoelectronics)
- **Photo Diodes** (see Optoelectronics)
- **Photo Transistors** (see Optoelectronics)
- **Potentiometers** digikey.com
  - Angle Sensing/Positioning 1435, 1462
  - Audio 1461
  - Carbon 1451, 1453, 1456-1457, 1468
  - Ceramic 1466-1467
  - Cermet 1436-1453, 1455, 1462, 1468
  - Conductive Plastic 1443, 1448, 1460
  - Digital 476, 548-550, 760-762, 845, 847-848, 862
  - Digital Readout Dial 1457
  - Joystick Controller 1454
  - Kits 1445-1450, 1452, 1454, 1456, 1464, 1468, 1770-1771
  - Panel Control 1444, 1448
  - Position Sensor 1463
  - Rotary 1462
  - Slide 1463
  - Stock Pot™ 1454
  - Thumbwheel 1462
  - Trimmer 1432-1455, 1462, 1464-1468
  - Two-Axis Controller 1454
  - Wirewound 1443-1444, 1446-1449, 1456-1457
- **Power Cords** 45-47, 1158
  - EMI Filters 1147-1148, 1150-1151
- **Power Dividers** 1139, 1389
- **Power Entry Modules** 1159-1162
- **Power Outlet** 1159
- **Power Strips** 1768-1769
- **Power Supplies**
  - AC Adapters 1844-1845, 1850
  - Accessories digikey.com
  - AC-DC Converters 1819-1822, 1825, 1828, 1837-1840, 1842-1843, 1846, 1848-1850
  - Cable Kits digikey.com
  - DC-DC Converters 1813-1818, 1826-1835, 1839, 1841, 1847-1848
    - Adjustable Output 1827
    - Point of Load (POL) 1827-1828, 1847
    - Programmable 1835
  - Desktop Switchers 1845-1846, 1849-1850
  - DIN-Rail Mount 1839-1840
  - Dual Output 1826, 1828, 1834-1835
  - External 1755, 1769, 1821-1822, 1824-1825, 1844-1846, 1849-1850
  - Hook-Up Cables 1755
  - Linear 1822-1823, 1836, 1849
  - Medical Grade 1821-1822, 1850
  - Multiple Output 1819-1820, 1835, 1850
  - Single Output 1817-1820, 1826-1834
  - Switching 1820-1822, 1824, 1828, 1837-1840, 1842-1846, 1848-1850
  - Universal Input 1820-1823, 1825, 1828, 1842-1843, 1848-1850
  - UPS Systems 1768
  - Wall Transformers (see Transformers)
- **Pressure Switches** 1895-1896
- **Printers** digikey.com
  - Accessories 1719
  - Impact 1722
  - Labels 1719
  - Thermal 1719-1722
  - Thermal Paper 1720
  - Wire Marker 1719
- **Probes**
  - Accessories 1757-1759, 1763
  - Clips 1758, 1763
  - Differential 1758
  - Logic 1757
  - Oscilloscope 1755, 1758
  - Pulser 1757
  - Thermocouple 1757, 1759
- **Programmers and Programming Tools** (see Development Tools)
- **Prototyping** (see PC Board Prototyping)
- **Protractors, Digital** 1894

Q

- **Quadracs** 1016

R

- **Raceway** digikey.com
  - Wire Duct and Accessories 1715
- **Racks & Accessories** (see Enclosures)
- **Rectifiers** (see Diodes/Rectifiers)
- **Reference**
  - Books digikey.com
  - Tech Support digikey.com
- **Relays** digikey.com
  - BGA 1622
  - High Frequency 1622, 1637
  - I/O Modules 1653-1654
  - Mechanical 1628-1630, 1632-1651
  - Power IC 1655
  - Reed 1619-1623, 1626
  - Safety 1653, 1911
  - Sockets and Accessories 1628-1629, 1632, 1635-1636, 1641-1645, 1647-1651
  - Solid State 1653, 1656-1659, 1661-1667
  - Time Delay 1652
- **Resistor/Capacitor Networks** 1424
- **Resistors**
  - Anti-Sulfurated digikey.com
  - Arrays 1422, 1424-1425, 1428
  - Audio 1405
  - Capacitor Mount 1405
  - Carbon Composition 1408
    - Axial 1408
    - Carbon Film 1400-1401
  - Ceramic Composition 1408-1409, 1416
  - Chassis Mount 1403-1404, 1406
  - Current Sensing 1405, 1413-1415
  - Heat Sink Mountable 1409, 1411-1412
  - Kits 1389-1391, 1394-1397, 1401-1402, 1771
  - Metal Element 1414
  - Metal Film 1385-1389, 1399-1400, 1402, 1418-1419
  - Metal Oxide Film 1400-1402, 1412
  - Networks 1423-1424, 1426-1427, 1429-1431
  - Power 1403-1410, 1412, 1415-1416, 1418-1419
  - Power Metal Film 1387, 1389
  - Rheostat 1417
  - Thermistors (see Thermistors)
  - Thick Film 1392-1398, 1407, 1409, 1412-1413, 1423, 1428
  - Thin Film Chip 1389-1391
  - Wide Terminal digikey.com
  - Wire Element 1414
  - Wirewound 1388, 1401, 1403-1407, 1410-1411, 1413, 1416-1421
  - Zerohm Jumper Wires 1401, 1422
- **Resonators**
  - Ceramic 1037, 1068-1072
  - SAW 1067-1070, 1073
- **RF/Hybrid**
  - Attenuators 1423
  - Balun 1139
  - Directional Coupler 1139
  - Power Dividers 1139, 1389
- **RFid** (see RF/IF)
- **RF/IF**
  - Amplifiers 381, 388, 394, 399-400, 402, 404, 952-953
  - Antenna 380-381, 383, 389, 402
  - Attenuators 382-383
  - Bluetooth™ Devices 381, 400
    - Modules 400
    - Serial Modem Adapter/Cord digikey.com
  - Clock Generators 378
  - DDCs 379
  - DDS 379
  - Development Tools 378-383, 386, 388, 391-392, 397, 400, 404
  - Encoders/Decoders 388, 397
  - Ethernet Bridge 391
  - FM/IF Systems 394
  - Gain Blocks 394
  - Gain Phase Detectors 378
  - GPS 382, 397
  - Interface 381-382, 574
  - ISM-Band Transmitters 378
  - Line Filters 1162-1163
  - Log Amps/Detectors 387
  - Mixers/Multipliers 387, 394, 574
  - Modems 391, 393, 442
  - Modulator/Demodulator 378, 381, 387
  - OEM/RF Modules 381, 383, 386-388, 391, 394, 398
  - PLL Synthesizers and VCOs 378, 394
  - Power Amp Modules 750-751
  - Reader Modules 384-385, 396, 403
  - RFid
    - Antenna 384-385
    - Base Station IC 381, 404
    - Development Kits 392, 400, 404
    - Modules 402-403
    - Readers 403, 574
    - Transponders 401
  - RMS Detectors 378
  - Switches 383, 557, 569
  - Synthesizers 393, 399-400, 815
  - Transistors 386, 395, 952-953
  - Transmitters/Receivers 378, 380, 382, 386, 392, 394, 397, 400, 403-404, 480, 559, 849
    - RX/TX Subsystems 378
  - Wireless Networking Tools 382, 391, 397-398, 441
- **RFI Suppression** 1146-1151
- **Rheostats** 847-848, 1417
- **Ribbon Cable, Filters** 1149

S

- **SCRs** 912, 934-935, 1014-1015, 1018-1020
- **Semiconductors** (see Integrated Circuits)
- **Sensors** digikey.com
  - Accelerometer 505, 1694, 1884-1885, 1898-1899
  - Air Flow 1873-1874
  - Clinometers 1894
  - Current 891, 1880, 1888-1889
  - Digital Compass 1890-1891
  - Distance Measuring 1868
  - Dust 1868
  - Electromechanical Controls 1909
  - Electro-Optic 1911
  - Evaluation Kits & Modules 1898, 1909
  - Float Type Level Switch 1911
    - Fabri-Level™ Kit 1911
  - Flow 1911
  - Flow Switch 1910
  - Fluid 1876, 1898
  - Force 1890, 1895
  - Gas digikey.com
  - Gas Flow 1874
  - Hall Effect 718, 1879-1880, 1889, 1891
    - Programmable 1879
  - Humidity 1895-1896
  - Illumination 1868
  - Image 521
    - Evaluation Kits 521
  - Inclinometer 1899
  - Liquid Level 1910
  - Load Cells 1895
  - Magnetic 891, 1619, 1623-1624, 1890-1891, 1909
  - Magnetoresistive (MR) 1880, 1890, 1909
  - Motion 1875
  - Optical/Light 669, 1870, 1873, 1875-1876, 1878, 1881
  - Photoelectric 1897
  - Piezo 1899
  - Position/Proximity 1462, 1622-1625, 1870, 1874, 1897-1898
    - Magnetic 1623-1625
  - Pressure 1874, 1882-1883, 1885-1887, 1892-1896
  - Shock 1899
  - Smoke Detection 559
  - Switch 1880
  - Temperature 766-767, 783, 841, 1880, 1895
  - Thermal 1525
  - Thermopile digikey.com
  - Touch 1898
  - Vibration 1867, 1874, 1899
- **Sidacs** 1014
- **Sidactors** 1497-1498
- **Socket Modems** 393, 442
- **Sockets** (also see IC Sockets)
  - DIMM 342, 353, 355
  - Oscillator 1023-1024, 1053, 1060
  - SIM Card 352
  - SIMM 355
  - Strip 366-367, 369, 373
  - Transistor 873
  - Zig-Zag 371
- **Socket-Wrap ID** 362
- **Solder/Desolder**
  - Accessories 1735, 1747-1754
    - Desolder Braid 1735, 1752, 1754
    - Desolder Pump 1751
    - Flux Pens 1735, 1750, 1752, 1754
    - Paste and Dispensers 1754
    - Pocket Dispensers 1752
    - Replacement Tips 1747-1750
    - SMD Rework Kit digikey.com
    - Solders 1753-1754
    - Sponges 1754
    - Stencil Wipes 1754
    - Syringe Dispensers and Tips 1751
    - Thermal Tweezers 1748
    - Vacuum Pickup Tool 1749
  - Equipment 1747-1751
    - Cordless Solder Irons 1750
    - Fume Absorber 1751
    - Rework/Repair 1747-1748, 1750
    - SMD Removal Kits 1751
    - Solder Irons 1750
- **Solenoids** 874
- **Sound Modules** digikey.com
- **Speakers**
  - Alnico Magnet 1684
  - Balanced Armature 1695
  - General Purpose 1684
  - Headset/Handset 1695
  - Hi-Fi 1683
  - Micro 1683
  - Mini 1683
  - Miniature Monitor 1685
  - Notebook 1684
  - Specialty 1695

Items listed as digikey.com do not appear in the catalog, but appear on the Digi-Key Web Site.

- **Static Control Products** 1743-1746
- **Stepper Motors** 874
- **Surface Mount Products**
  - (see specific product listing)
- **Surge Protection Components**
  - Surge Absorbers
    - Arrays 1471
    - Multilayer Chip 1471, 1478
    - SiBar Thyristors 1502
    - ZNRs 1469-1470, 1472
  - Surge Arresters 1476-1478
    - GDTs 1477
  - Surge Suppressors 1485-1486, 1504, 1768-1769, 1839
    - Arrays 1504
    - Multilayer Chip 1478-1479
- **Swabs and Applicators** 1735, 1752
- **Switches**
  - Accessories 1545-1546, 1548-1549, 1555, 1559-1563, 1565-1566, 1573, 1575, 1578-1580, 1582-1583, 1587, 1598
    - Splashproof Boots 1549, 1559, 1565, 1573
  - Detector 1536-1537, 1539
  - DIP 1605-1611, 1613-1614
  - Door 1596-1597, 1603
  - Emergency Stop 1582, 1585
  - Fiber Optic 231
  - Illuminated 1543, 1563, 1573-1575, 1582-1587
  - Interlocks 1603
  - Intra-Switch™ 362
  - Keylock 1585, 1593
  - Keypads 1551-1553
  - Key Switch 1542, 1548, 1553, 1582, 1585-1586, 1592-1593
  - Kits 1588, 1772
  - Knob Switches 1583, 1585
  - Limit 1597
  - Magnetic 1624, 1626-1627
  - Matrix Selector .... digikey.com
  - Navigation 1546
  - Pilot Lights 1582-1583
  - Power 1538, 1579, 1658
  - Pressure 1896
  - Pushbutton 1531-1535, 1538-1539, 1543-1549, 1551, 1561, 1567, 1573-1582, 1584, 1586-1587, 1596, 1599-1602
    - Caps 1549, 1561, 1575, 1578-1580
    - Frames 1578
    - Lamps .... digikey.com
  - Reed 1624, 1626-1627
  - Rocker 1550, 1560, 1567-1574
  - Rotary 1548, 1604-1607, 1610, 1613-1615
    - DIP 1605-1607, 1610, 1613
    - Knobs and Dial Plates 1604
  - Seals 1560
  - Selector 1582-1583, 1585-1586
  - Slide . 1538, 1561, 1586, 1588-1591, 1609
  - Snap Acting 1539, 1594-1603
  - Switchlocks/Key Switch 1542, 1548, 1553, 1582, 1585-1586, 1592-1593
  - Tact 1540-1547, 1550, 1586, 1596, 1599-1602
  - Thumbwheel 1554, 1591
  - Tilt 1867, 1874, 1899
  - Toggle 1555-1560, 1562-1567, 1574

T

- **Tape** .... digikey.com
  - Adhesive Transfer 1711
  - Duct 1711
  - Electrical 1711
    - Color Coded 1711
  - Foam 1711
  - Foil Shielding 1711
  - Low Static 1751
  - Polymide Film 1751
  - Safety .... digikey.com
  - Shrink 1682
  - Splicing 1711
  - Water Soluble 1751
  - Wire Marker 1719
- **Telephone**
  - Adapters 224-225, 228
  - Connectors 221-225, 227-228
  - Modular Cables 218-220
- **Terminal Blocks** (see Connectors)
- **Terminals-Splices** (see Connectors)
- **Test Equipment and Supplies**
  - Cable/Harness Tester 1757
  - Cable Tester 51, 220
  - Capacitance Meter 1757
  - CRT Restorer Analyzer .... digikey.com
  - Frequency Counter 1755
  - Function Generator 1755
  - In-Circuit Testers 1757
  - Insulation Testers .... digikey.com
  - Isolation Transformer .... digikey.com
  - LCR Testers 1757
  - LED Tester Box 1942
  - Logic Probes 1757
  - Megohmmeter .... digikey.com
  - Multimeters 1756, 1759
  - NTSC Generator 1757
  - Oscilloscopes 1755, 1758
  - Parts Tester 1757
  - Patch Cords 1761-1762, 1765
  - PC Cable Tester 51, 1757
  - Power Supplies, DC 1755
  - Probes
    - Clips 1758
    - Differential 1758, 1760
    - Hooks 1764
    - Oscilloscope 1755, 1758, 1760
    - Pulser Probes 1757
    - Test Probes 1757-1759, 1763-1764
    - Thermocouple 1757, 1759
  - RF Generator .... digikey.com
  - Test Leads 1668, 1676, 1757-1761, 1763-1766
  - Test Points 1729
  - Thermometers/Temperature Testers 1759
  - Transistor Testers .... digikey.com
  - Video Monitor Testers 1757
- **Thermal Cutoffs** 1530
- **Thermistors**
  - High Temperature 1902
  - Inrush Current Limiters 1907-1908
  - Kits 1904-1905, 1772
  - Miniature Sensors 1904
  - NTC 1900-1905
  - PTC 1905-1907, 1525
  - PTC Resettable Fuses 1499-1501, 1503, 1907
  - RTDs (Resistance Temperature Detectors) 1901
- **Thermostats, Encapsulated** 1524
- **Thyristors** 910, 1015-1016, 1485, 1496, 1502
  - SiBar Thyristor Surge Protectors 1502
- **Timers** 1921-1922, 1925-1926
  - Accessories 1921, 1925-1926
  - Programmable 1652, 1921-1922, 1925-1926, 1931
- **Tools** .... digikey.com
  - Air Nozzles 1750
  - Air Rework Station 1750
  - Awl .... digikey.com
  - Bench Press, IDC Assembly 1740
  - Bit Holders .... digikey.com
  - Bits and Bit Sets 1741
  - Butane Torch 1678
  - Cable Tie Gun 1714, 1717
  - Coax Cable Stripper 1742
  - Crimp 42-43, 56, 64, 69, 76-79, 81, 83-84, 87-90, 94-99, 103, 106, 118, 121-122, 124-125, 132-133, 137, 140, 143-147, 149-152, 154, 156-158, 161, 163, 165-167, 170-172, 181-182, 184, 190, 196-198, 200, 204, 208, 220, 223, 227, 239, 259, 261, 264-266, 268-269, 275-278, 280, 282, 291, 293-297, 299, 305-306, 312, 318-319, 326-327, 329, 772, 1867, 1868
    - CATV 326
    - Excavators .... digikey.com
    - Hooks .... digikey.com
    - Lifters .... digikey.com
    - Magnetizer/Demagnetizer .. digikey.com
    - Mirrors, Inspection .... digikey.com
    - Modular 220, 223, 227
    - Reamer .... digikey.com
    - Sockets .... digikey.com
  - Cutters and Pliers 1739-1741
  - Desoldering Pump 1751
  - Fiber Optic 231
  - Field Service Kits 1741
  - Flat Cable Cutter .... digikey.com
  - Fume Absorber 1751
  - Hammers .... digikey.com
  - Heat Guns 1678
  - Hemoclamps/Hemostats 1738
  - Insertion/Extraction 69, 77, 83, 87-88, 121-122, 125, 140, 143, 145-147, 150, 152, 154, 157, 161, 163, 165-167, 171, 182, 184, 190, 196-198, 204, 208, 214, 282, 291, 294, 297, 299, 305, 1742
    - ICs 372, 376, 1742
    - Kits .... digikey.com
  - Inspection Mirrors .... digikey.com
  - Knives and Blades 1738, 1742
  - Lead Straightener, IC 372
  - L-Key .... digikey.com
  - Nibbler 1696
  - Probe Pick 1738, 1742
  - Punch Down 224, 1742
  - Scissors 1738, 1742
  - Screwdrivers 1739, 1741
  - Tuning Tools 1742
  - Tweezers 1741-1742
  - Vacuum Vise 1740
  - Vises 1740, 1749
  - Wire/Cable Stripper 121-122, 124-125, 140, 144-147, 220, 223, 1668, 1738, 1742
  - Wire Cutter 1739-1740
  - Wire Wrapping 1738
  - Wrenches 1739
- **Transducers**
  - Audio 1685-1686, 1688-1691, 1695
  - Current 1888
  - Pressure 1882-1883, 1892, 1894, 1911
  - Rotary Variable Inductance (RVIT) ... 1894
  - Ultrasonic 1685
  - Voltage 1888
- **Transformers** (also see Coils/Inductors)
  - Audio 1108, 1809
  - Balun 1138
  - CCFL 1915-1917
  - Chassis Mount 1807, 1810, 1812
  - Configurable 1118
  - Control 1807
  - Current Sense 1888-1889
  - Desktop Switcher 1845-1846, 1849-1850
  - Encapsulated 1802-1804
  - Isolation 1108, 1768, 1803, 1806
  - Medical Grade 1806
  - PC Mount 1800-1803, 1805, 1807-1812
  - Piezoelectric 1915
  - Power 1079, 1800-1801, 1804-1808
  - Power Over Ethernet (POE) 1082
  - Pulse 1803
  - Switchmode 1809
  - Telecommunications 1106-1107
    - LAN Discrete Modules 1107
  - Telephone Coupling 1802
  - Toroidal 1805-1806
  - Variable AC 1754
  - Wall
    - AC Out 1803, 1844-1846
    - DC Out ... 1803, 1844-1846, 1849-1850
    - International 1844-1845
- **Transient Voltage Suppressors (TVS)**
  - Arrays 1504
  - Diodes 1482-1496
  - EMI Protection ICs 718, 797
  - Rail Clamp .... digikey.com
  - Surgector .... digikey.com
  - Varistors/ZNRs 1469-1475, 1478-1482
- **Transistors** 386, 395, 868, 876-881, 884-886, 892-900, 905-906, 911-913, 920-934, 936-943, 951-953, 955-968, 1003
  - Arrays 906
  - HEMTs 953
  - IGBTs 911-913, 917, 934, 937
  - Insulators, MICA 873
  - PNP Loadswitch 823
  - VHF, UHF, RF 386, 395
- **Transponders** 401
- **Triacs** 910, 935, 1012-1014, 1016-1017, 1020-1021
- **Tubing** .... digikey.com
  - Corrugated Loom 302, 1717
  - Heat Shrink 1678-1682
  - Kits 1680-1682, 1772
  - Teflon 1677

U

- **UPS Systems** 1768
- **UV Erasers** .... digikey.com

V

- **Vacuum** 1729
- **Varistors**
  - Arrays 1471
  - Automotive 1476
  - Block 1476
  - MOVs (Metal Oxide) 1474, 1480
  - Multilayer Chip 1471, 1473-1474, 1478-1479
  - Standard 1475
  - Strap 1475
  - Telecom 1476
  - TVS 1473
  - ZNRs 1469-1470, 1472
- **Voltmeters** 1922, 1928, 1929

W

- **Wipes** 1746, 1752, 1754
- **Wire** (also see Cable/Wire)
  - Holders/Ties 1712-1714, 1716-1717
  - Jumpers 1729, 1763
  - Markers 1711, 1719
    - Tape Dispenser 1711, 1719
  - Saddle 1713, 1717
- **Wire Duct and Accessories** 1715
- **Wireless Communication** (see RF/IF)

Z

- **ZNRs** (see Varistors)

Items listed as digikey.com do not appear in the catalog, but appear on the Digi-Key Web Site.

3M
- Backshells, D-Sub 34
- Breadboards 1729
- Bumpons 1711
- Cable
  - Clamps 41
  - Flat 41
  - High Flex 42
  - Ribbon 41-42, 111
    - Round Jacketed/Shielded 41
  - Ties 1724
  - Wire Tie Wraps 1711
- Cable Assemblies 34, 36-39
  - Termination Jumpers 36, 39
- Cleaning Cloth 1711
- Connector Hardware 193
- Connectors
  - 2mm 111
  - Card Edge 35
  - Delta, Ribbon 38
  - D-Sub 34
  - IDC 34-35, 39-41
  - Intra-Connector™ 362
  - Intra-Switch™ 362
  - Ribbon, Mini D 40
  - Scotchlok™ 261-262
  - Socket 111
- Headers 35, 41, 110, 168
- Heat Shrink Tubing 1679-1680
- Hook and Loop Fasteners 1712
  - Dual Lock™ 1712
  - Scotchmate™ 1712
- IC Sockets
  - PLCC Carrier 377
  - Type "A" LCC 377
  - ZIF 376
  - ZIP DIP 376
- IC Test Clips 377
- Jumper Wire 1729
- Kits
  - Heat Shrink Tubing 1680, 1772
  - Insulated Terminals 261-262
- Patch Cords 1762
- Probe-It Clips 1763
- Shorting Jumpers 168
- Static Control Products 1743-1746
- Tape
  - Duct 1711
  - Electrical 1711
  - Foam 1711
  - Foil Shielding 1711
  - Low Static 1751
  - Water Soluble 1751
- Terminal Connectors 260-262
- Terminal Strips 1734
- Tools, Crimp 261
- Vacuum 1729
- Wire Marker Tape Dispensers 1711

A

Aavid Thermalloy
- Heat Sinks 868-869, 871
  - BGA 871
- Thermal Compound 868

Abracon Corporation
- Crystals 1034, 1036
- Filters, SAW 1067
- Oscillators 1038-1039
- Resonators
  - Ceramic 1037
  - SAW 1067

ACL Staticide, Inc.
- Battery Contact Cleaner 1780
- Cleaning Wipes 1746
- Static Control Equipment .... digikey.com
- Static Control Products 1743, 1746

ADI (see Analog Devices, Inc.)

Advanced Photonix, Inc.
- Photo Diodes/Emitters 1871

Agilent (see Avago Technologies)

Alcoswitch/Tyco Electronics
- (see Tyco Electronics/Alcoswitch)

AlfaMag Electronics, LLC
- Inductors 1119

Allegro MicroSystems, Inc.
- Hall Effect Sensors 718
- Power ICs 718-719

All Sensors Corporation
- Pressure Sensors 1887

Alpha Wire Company
- Butane Torch 1678
- Cable .... digikey.com
  - Bus Bar 1677
  - Coaxial 1677
  - Ethernet 1677
  - Hook-Up 1676-1677
  - Multiconductor 1674-1675
  - Sleeving 1676
  - Test Lead 1676
  - Tinned Copper Flat Braid 1676
- Heat Guns 1678
- Tubing
  - Fabric 1678
  - Heat Shrink 1678
  - Teflon 1677

Altera
- Cables/Programming Hardware 416
- Development Kits and Tools 416
- Evaluation Kits 416
- Integrated Circuits/Semiconductors
  - CPLDs 415
  - FPGAs 413-414

American Electrical, Inc.
- Cable Grips 1670
- Circuit Breakers, DIN Rail Mount 1527
- DIN Rail 239
- Tools, Crimp 239
- Wire Ferrules 239

Ametherm
- Inrush Current Limiters 1908

AMP/Tyco Electronics
- (see Tyco Electronics/AMP)

Amphenol
- Adapters, RF Coaxial 318
- Connectors
  - Backshell Kit .... digikey.com
  - Circular
    - 97 Series 283-286
    - Accessories 285-286
    - C 091 A 286
    - C 16-1 287
    - MS Series 282, 285
    - PT Series 281-282
    - RADSOK® 280
  - RF
    - BNC 315-317
    - FAKRA 313
    - N Type 317
    - SMA/SMB 313-314
    - TNC 317
    - Twinaxial 317
    - UHF 318
  - Smart Card 358
- Cord Grips 1670
- Fiber Optic Connectors 232
- Tools, Crimp 280, 282, 318

Amphenol Connex
- Adapters, RF 309-312
- Connectors, RF
  - BNC 309
  - MCX/MMCX 311
  - N Type 311
  - SMA/SMB 309-310
  - TNC 312
  - Tools, Crimp 312

Amveco Magnetics
- Transformers
  - Current Sense 1888
  - Medical Grade 1806
  - Power 1806
  - Toroidal 1805-1806

Analog Devices, Inc.
- DSP Emulators/Programmers 524-526
- Gyroscopes 1898
- ICs/Semiconductors
  - Amplifiers 536-541
  - Analog Computation Circuits 541
  - Analog/Digital Audio 541
  - ATE and Time Domain 542
  - CCD Signal Processors 542
  - Data Communication 542
  - Data Conversion 542-548
  - Digital Potentiometers 548-549
  - Display and Video Converters 550
  - Evaluation Boards 526, 550
  - Fiber Optics 550
  - Interface 550-552
  - Microcontrollers 526-527
  - MicroConverter® 526-527
  - Motion/Motor Control 552
  - Power Management 552-554
  - Sensor/Signal Conditioner 554-555
  - Signal Processors 555
  - Specialized 555
  - Switches 556-557
  - System Supervisor 555-556
  - Thermal Management 550
  - Voltage/Frequency Converters 548
  - Waveform Generators 554
- Isolators, Digital 1866
- RF/IF Products 378-379
  - DDCs 379
  - DDSs 379
- Sensors, Accelerometers 1898

API Delevan
- Bead Cores 1114
- Inductors
  - Air Core 1114
  - Chip .... digikey.com
  - Coils .... digikey.com
  - Common Mode Choke 1114
  - Filter 1109
  - Fixed 1109-1112, 1114
  - High Current .... digikey.com
  - Kits 1110-1111, 1114
  - Power Choke 1113
  - Shielded 1110-1111, 1113
  - Toroidal .... digikey.com

APM Hexseal
- Switch Seals 1560

Aries Electronics, Inc.
- Adapters
  - DIP 373-374
  - IC Socket 373-374
  - Socket 374
- Headers
  - Covers 372
  - DIP 372
- IC Sockets
  - Adapter 373-374
  - Breakaway 373
  - Collet 372-373
  - Horizontal 372
  - Lock Eject DIP 373
  - Open Frame 372
  - PGA 373-374
  - Pin Line 373
  - PLCC 374
  - QFP 373
  - Strip Line 373
  - Test 374
  - Vertical 372
  - Wire-Wrap 372
  - ZIF 374
- Oscillator Sockets 1053, 1060
- Tools
  - DIP Extractor 372
  - IC Straightener 372

Artesyn Technologies
- DC-DC Converters 1828-1830
- Power Supplies 1828

Asahi Rubber, Inc.
- Heat Sink Pads 873

Assmann Electronics
- Adapters
  - D-Sub 45-46
  - Keyboard 45
  - Mouse 45-46
  - SCSI 48
  - USB 50-51
- Cable Assemblies
  - CAT 5 and CAT 5e 51
  - Computer, Molded 44-51
  - IEEE 1284 44
  - IEEE 1394 49-51
  - Multi-Media 46-47
  - Power Cord 45-46
  - SCSI 48-49
  - Stereo Extension 46-47
  - USB Extension 49-51
  - VGA 44-45
- Cable Testers 51
- Connectors 45-47, 49-51
  - Modular Plugs 50-51
- Flat Ribbon Cable 43
- IC Sockets 375
- PLCC Sockets 376

Astec Power
- AC-DC Power Supplies 1819-1820
- DC-DC Converters 1818

Astro Tool Corp.
- Crimp Tools 280, 282
- Extraction/Insertion Tools 282

ATM America (see Brand 77 Tools)

Atmel
- CPLDs 417-418
- Development Tools and Kits
  - 8051 Architecture 431
  - ARM Thumb 422
  - AVR 423
  - CPLD 418
  - FPGA 418
  - MARC 4 422
  - RF/Wireless 379-381
  - USB 423
- FPGA 419-420
- FPSLIC 422
- Interface ICs 855
- Memory ICs
  - Cryptomemory 857-858
  - DataFlash, Serial 861, 866
  - EEPROM, Parallel 858-859
  - EEPROM, Serial 419, 855-857
  - EPROM 858
  - Flash 859-861
- Microcontrollers
  - 8051 Architecture 428
  - ARM Thumb 422
  - AVR 423-427
  - CAN 428
  - Flash 428-430
  - Smart Card 428
  - USB 429
- SPLDs 420
- Wireless Communication 379-381

Avago Technologies (formerly Agilent)
- LEDs
  - 7-Segment Displays 1976
  - Bar Graph Arrays 1976
  - Hexadecimal Displays 1979
  - Numeric Displays 1979
  - Smart Displays 1979
  - Surface Mount 1977-1979
- Optoelectronics
  - Ambient Light Sensor 1870
  - IrDA Transceiver Modules 1932
  - IR Detectors 1870
  - IR Emitters 1870
  - Optoisolators 1862-1866
  - Photointerrupters 1870
- RF and Microwave Products 953
- Sensors, Proximity 1870

Aven
- Blades
  - Deburring 1742
  - Precision 1742
- Illumination Lamps 1767
- Magnifiers 1766-1767
- Microscopes 1766
- Tools
  - Cable Tie Guns .... digikey.com
  - IC Insertion/Extraction 1742
  - Knives and Blades 1742
  - Tweezers 1742
- Worklights 1767
  - Replacement Bulbs 1767

AVX Corporation
- Capacitors
  - Ceramic, Axial 1314
  - Ceramic, Multilayer ... 1314, 1329-1337, ... 1339-1340
  - Feed-Through 1339
    - Kits .... digikey.com
  - Film 1289
  - Low Inductance 1339-1340
  - Microwave Chip 1337-1339
  - Niobium Oxide Chip 1262
  - Tantalum 1255-1261
  - Thin Film, Chip 1338-1339
- Connectors
  - 0.4mm 352
  - 1mm 352
  - 2mm 351
  - Compact Flash 353
  - DIN 351
  - Hard Metric 351
  - MOBO™ .... digikey.com
  - PCI Express 345
  - PCMCIA 353
  - Secure Digital 353
- Filters, Thin Film 1070
- Fuses, Thin Film 1907
- Inductors, Thin Film .... digikey.com
- Kits 1770
- Oscillators 1066
- Resonators
  - Ceramic 1070
  - SAW 1070
- TVS (Transient Voltage Suppressors) 481-1482

Items listed as digikey.com do not appear in the catalog, but appear on the Digi-Key Web Site.

B

B B Battery
- Batteries, Lead Acid 1773

BCcomponents (see Vishay)

BEAU (see Molex)

Bel Fuse, Inc.
- DC-DC Converters 1827
- Fuses 1519-1520
  - Telecom 1519

Bergquist
- Heat Sink Pads 872-873
- Touch Screens 1912

BICCGeneral (see General Cable)

Bivar, Inc.
- Converters .... digikey.com
- Hardware
  - Insulators 1718
  - Spacers 1718
- LED
  - Assemblies .... digikey.com
  - Clips .... digikey.com
  - Modules 1718
- Light Pipes 1718

B&K Precision
- AC Voltage Detector 1757
- Cable Tester 1757
- Capacitance Meters 1757
- Component Testers 1757
- CRT Analyzer .... digikey.com
- EPROM Eraser 1757
- Frequency Counters 1755
- Function Generators 1755
- Generators
  - Color .... digikey.com
  - NTSC 1757
  - RF .... digikey.com
- Insulation Testers .... digikey.com
- Multimeters
  - Bench Top 1756
  - Clamp-On 1756
- Oscilloscopes 1755
- Power Supplies
  - DC 1755
  - Hook-Up Cables 1755
- Probes
  - High-Voltage 1757
  - Logic/Pulser 1757
  - Oscilloscope 1757
  - Thermocouple 1757
- Programmers .... digikey.com
- Test Leads 1757
  - Accessory Tips Kit 1757
- Transformer, Isolation .... digikey.com
- Transistor Tester .... digikey.com
- Video Monitor Tester 1757

Bourns, Inc.
- DC-DC Converters .... digikey.com
- Dials, Concentric Scale 1444
- Encoders
  - Digital Contacting 1618
  - Rotary 1618
- Fuses
  - Resettable 1503
  - Telecom .... digikey.com
- Inductors .... digikey.com
- Modular Contact, 70AD 351
- Networks, Resistor 1431
- Potentiometers
  - Carbon 1451, 1453
  - Cermet 1443-1453
  - Conductive Plastic 1443, 1448
  - Kits 1445-1450, 1452, 1770-1771
  - Panel Control 1444, 1448
  - Ten-Turn Wirewound 1443-1444
  - Trimmer 1443-1453
  - Wirewound 1443-1444, 1447-1449
- Surge Suppressors .... digikey.com
- Switches
  - Key Switches 1586
  - Rotary Selector 1586
- Thyristors .... digikey.com

Brand 77 Tools
- Probes 1738
- Tools, Hemostats 1738

Bud Industries, Inc.
- Blower .... digikey.com
- Enclosures/Boxes 1700-1703
  - Accessories 1700, 1702, 1704-1705
  - Cabinets 1700-1701
  - Racks 1704-1705
- Filters .... digikey.com

Building Fasteners
- Hex Nuts 1728
- Kits, Hardware 1728
- Rivets 1728
- Screws
  - Machine 1728
  - Metric 1728
  - Nylon 1728
  - Sheet Metal 1728
  - Stainless Steel 1728
- Washers 1728

Burr-Brown (see Texas Instruments)

Bussmann (see Cooper/Bussmann)

C

Cambridge Products (see Emerson Network Power Connectivity Solutions)

Cantherm
- Bimetal Cutoffs 1524
- Encapsulated Thermostats 1524
- Sensors, Thermal 1525
- Temperature Regulators 1524
- Thermistors, PTC 1525

Capital Advanced Technologies, Inc.
- Surfboards® 1737
  - Adapters 1737
  - Kits 1737

Cardinal Components, Inc.
- Programmable Oscillators 1050

Carling Technologies
- Circuit Breakers 1527
- Switches
  - Accessories 1561, 1567
  - Pushbutton 1561, 1567
  - Rocker 1560, 1567
  - Slide 1561
  - Toggle 1560, 1567

Carol Brand
(see General Cable/Carol Brand)

CDE (see Cornell Dubilier Electronics)

Cherry Switch
- Computer Keyboards 1553
- Sensors
  - Hall Effect 1891
  - Magnetic Position 1624
- Switches .... digikey.com
  - Key Switch 1553
  - Rocker 1568
  - Snap Acting 1598-1602
  - Thumbwheel 1554

Chip Quik, Inc.
- SMD Removal Kits 1751

CII Technologies
(see Tyco Electronics/Corcom)

Cinch Connectors
- Barrier Blocks 249
- Hardware, Screws .... digikey.com
- Jones Connectors .... digikey.com

Cirronet
- RF Development Kits 381
- RF Transceiver Modules 381

Cirrus Logic, Inc.
- Integrated Circuits
  - A/D and D/A Converters 534-535
  - Codecs 533
  - Power Control/Management 535
- Microcontrollers, ARM 535

Citizen
- Crystals 1042-1048
- Oscillators 1040-1042, 1048
  - Programmable 1048
- Printers
  - Impact 1722
  - Thermal 1720-1722
- TCXO .... digikey.com

Clare
- Optocouplers 1658
- Relays, Solid State 1658
- Switches, Power 1658

Clarostat
- Encoder, Optical 1616
- Potentiometers 1460

C-MAX
- Antennas 381
- RF Receivers/Evaluation Boards 382

CML Innovative Technologies
- Lamps .... digikey.com
  - Incandescent .... digikey.com
- LEDs 1947, 1965-1969
  - Assemblies 1966, 1969
  - Blue 1947, 1968
  - Flashing 1966
  - Incandescent Replacement 1947
  - Lenses 1967
  - T1 Modular 1966
  - White 1947, 1967
- Light Pipes 1967

CoEv Magnetics/Tyco Electronics
(see Tyco Electronics/CoEv Magnetics)

Coiltronics (Div. of Cooper Bussmann)
- Inductors
  - Common Mode 1082
  - Power 1079-1082
  - Shielded 1080-1082
  - Toroidal 1082
- Transformers 1079, 1081-1083
  - CCFL 1916
  - Power Over Ethernet (POE) 1082

Comair Rotron
- Fans 1796-1798
  - Accessories 1798

Condor
- Power Supplies
  - Accessories .... digikey.com
  - Connector Kits .... digikey.com
  - DC/DC Converters .... digikey.com
  - High Power 1825
  - Linear 1822-1823
  - Medical Grade 1821-1822
  - Rack Mount .... digikey.com
  - Switching 1821-1822, 1824-1825

Conec
- Connectors
  - ATCA 350
  - CompactPCI® 350
  - DIN Rectangular 350
  - D-Sub
    - Accessories and Hardware 215
    - Backshells 216
    - Combination 217
    - Filtered 215
    - Gender Changers 217
    - High Density 215
    - Water Resistant 217

Connor-Winfield
- Clock Smoother Module 1061
- Crystals 1063
- Oscillators 1061-1063
  - Ovenized (OCXO) 1063
  - Voltage Controlled (VCXO) 1061
- Synchronous Clock Generators 1061
- Timing Modules 1061

Conxall/Switchcraft, Inc.
- Cable Assemblies 289
- Circular Connector 288-289

Cooper/Bussmann
- ESD 1514
- Fuses 1514-1518
  - 1/4" Diameter AG 1516
  - Alarm Indicating 1518
  - Automotive 1517
  - Axial 1515-1516
  - Metric 1517
  - Multi-Meter 1518
  - Telecom 1514
- Holders 1515, 1517-1518
  - Automotive 1517
  - Clips 1517-1518
  - Panel Mount 1518
  - PC Mount 1515

Cooper Tools
(see Crescent/EREM/Weller/Wiss/Xcelite)

Copal Electronics
- Potentiometers, Cermet 1439-1442
- Switches
  - DIP 1609
  - Rotary 1610
  - Slide 1586, 1609

Copeland Communications, Inc.
- Development Kits, Modems 442

Corcom/Tyco Electronics
(see Tyco Electronics/Corcom)

Cornell Dubilier Electronics (CDE)
- Capacitors
  - Aluminum Electrolytic
    - Computer Grade 1186
    - Flatpack 1182
    - Screw Terminal 1186
  - Film, Axial 1302
  - MICA 1379-1380
  - Radial 1380

Coto Technology
- Relays
  - BGA 1622
  - High Frequency 1622
  - Reed 1619-1621
- Switches, Magnetic 1627

Cramer Company
- Geared Motors AC/DC 874

Crescent
- Tools
  - Pliers, Wrenches 1739
  - Screwdrivers 1739

Crydom
- Diodes/Rectifiers 935
- I/O Modules 1665-1666
- SCRs 935
- Sensors, Liquid Level 1910
- Solid State Relays 1664-1667
- Triacs 935

C-Ton Industries
- Digital Panel Meters 1930-1931
  - Cable Assemblies 1931
  - Power Supplies 1931

CTS
- Crystals 1057-1058
- Encoders, Mechanical 1616
- Heat Sinks (see IERC vendor)
- Oscillators 1058-1060
  - VCXO 1058
  - Wireless Frequency 1059-1060
- Potentiometers
  - Carbon 1456
  - Cermet 1455
  - Joystick Controller 1454
  - Kits 1454, 1456, 1771
  - Stock Pot™ 1454
  - Trimmer 1454-1455
  - Two Axis Controller 1454
  - Wirewound 1456
- Resistor Arrays, Thick Film Chip 1428
- Resistor Networks 1426-1427, 1429-1430
  - BGA 1426-1427
- Switches
  - DIP 1611
  - Rotary 1605

CUI, Inc. .... digikey.com
- Alligator Clips 1763
- Buzzers 1690
- Cable Assemblies
  - Audio 340
  - Power 340
- Connectors
  - Audio 338-341
  - Circular DIN 307
  - F (Television) 332
  - Modular Adapters 228
  - Power 338-340
- Encoder, Rotary 1616
- Power Supplies .... digikey.com
  - Desktop Switcher 1844-1846
  - Wall Transformers 1844-1845
- Sensors
  - Current 1888
  - Force 1890
- Speakers 1684-1685
- Transducers, Audio 1689-1690

CUI, Inc./V-Infinity (see V-Infinity)

More Product Available Online: www.digikey.com

Curtis Instruments
- Automotive/Industrial Meters 1928
- Counters 1927
- Timers 1927

Custom Computer Services (CCS)
- C-Compiler 468
- Development Systems digikey.com

CW Industries
- Cable Assemblies 26-30
- Connectors
  - IDC 26-30
    - Card Edge 28-30
    - DIP 27
    - D-Sub 26
    - PCB 28-30
    - Socket 28-30
- Headers, Protected 31
- Switches digikey.com
  - Kits 1588, 1772
  - Rocker 1571
  - Slide 1588

Cypress Semiconductor
- Development Kits 382-383, 491-492, 494
  - Accessories 492
  - Evaluation Boards digikey.com
  - Programmers 383, 491-493
  - Software 492
- IC/Semiconductors digikey.com
  - Buffers 855
  - Clock Generators 855
  - CPLDs 492
  - Microcontrollers 383, 491-493
  - PAL Compatible SPLDs 492
- Memory ICs digikey.com
  - FIFO Memory 855
  - SRAM 854-855
- Wireless USB 382

D

Daburn Electronics & Cable Corp.
- Cable/Wire
  - Hook-Up digikey.com
  - Speaker 1668
  - Test Leads 1668
- Hardware, Standoffs digikey.com
- Heat Shrink
  - Kits 1681, 1772
  - Shrink Tape 1682
  - Tubing 1681

Dale (see Vishay)

Dallas Semiconductor
- IC/Semiconductors
  - Adapters digikey.com
  - Delay Lines 846
  - Microcontrollers 495
    - Evaluation Kits 495
    - MAXQ™ 495
  - Oscillators digikey.com
  - Potentiometers, Digital 847-848
  - Specialized 846-848

Delta Product Groups
- Fans
  - DC Axial 1794-1795
  - Finger Guards 1794-1795
- Blowers 1794-1795

Desco
- Probes digikey.com
- Static Control Products
  - Bags 1745-1746
  - Cleaner 1746
  - Desiccant Packs 1746
  - Heel Straps 1745
  - Mats 1743-1744
  - Wash Bottles digikey.com
  - Wrist Straps 1745

Dialight
- LEDs
  - Panel Mount 1954
  - PC Mount 1948-1953
  - Surface Mount 1948
- Light Pipes 1953

Digi International
- Development Kits
  - Programmable Boards 432-433

Digi-Key
- Component Kits 1770-1772

Digital View, Inc.
- LCD Controller Boards 1912
  - Accessories 1912

Diodes, Inc.
- Rectifiers/Diodes 966, 969-975, 987-995, 1003-1004, 1009-1011
  - Bridge Rectifiers 987-988
  - Diode Arrays 995
  - Kits, Zener Diodes 972-973, 1772
  - MOSFETs 966, 1003
  - Schottky 990-995
  - Zener Diodes 969-975
- Thyristor Surge Protection 1485
- Transistors 964-968
  - Pre-Biased 966-968
- TVS (Transient Voltage Suppressors) 1484-1487

DPAC Technologies
- Development Kits 383
- OEM Modules 383

E

Eastek International/PREO
- Filters, Line 1164

Eastman Kodak Company
- Camera Modules 521
- CMOS Image Sensors 521
- Evaluation Boards 521
- Imaging Processors 521
- Lens Kit 521

Easy Braid
- Desoldering Braid 1754
- Solder Sponges 1754
- Wipes 1754

ebm-papst, Inc.
- Fans/Blowers 1790-1791

ECS, Inc. International
- Crystals 1025, 1027-1034, 1067
  - Kits 1025, 1772
- Filters
  - Monolithic Crystal 1066
  - SAW 1067
- Oscillators 1022-1025, 1049
  - Programmable 1049
  - VC-TXO/VCXO 1025
- Resonators
  - Ceramic 1068
  - SAW 1068

EDAC
- Connectors
  - Edgecard 341
  - IEEE 1394 (Firewire) 52
  - Modular, RJ45 226
  - Rack and Panel 189-190
  - Telecom 190
  - USB 52
- Matrix Switches digikey.com
- Tools 341

Electroswitch
- Switches, Rotary 1604

Elna America, Inc.
- Capacitors
  - Aluminum Electrolytic 1165
  - Electric Double-Layer (EDLC) 1185

Elpac Power Systems
- AC Adapters 1850
- Power Supplies
  - External 1849-1850
  - Medical 1850
  - Open Frame 1849

Emerson Network Power Connectivity Solutions
- Adapters 327, 332
- Banana Plugs/Jacks 298, 1772
- Binding Post 298
- Cable, RF 330-331
- RF Connectors 327-329, 332
  - MCX/MMCX 327, 329
  - SMA/SMB 328-329
  - SMK 329
- Spacers digikey.com
- Tip Jacks/Plugs 298
- Tools, Crimp 327, 329

Energizer Battery Company
- Batteries 1775, 1781
- Flashlights 1781

EPCOS, Inc.
- Capacitors
  - Ceramic, Multilayer 1313
  - EMI Suppression 1284
  - Film 1284
  - Metallized Polyester 1285
  - Metallized Polypropylene 1284
  - Tantalum 1276-1279
  - UltraCap® 1182
- Chokes digikey.com
- Filters, SAW 1072-1073
- Inductors, Helically-Wound 1108
- Resonators, SAW 1073
- Surge Arresters 1476
- Varistors
  - Automotive 1476
  - Block 1476
  - Leaded 1475
  - Monolithic 1476
  - Strap 1475
  - Telecom 1476

Epson Electronics America, Inc.
- Crystals 1055-1056
- Oscillators 1051-1054
- Programmable 1051

Epson Electronics America, Inc. - Semiconductor Div.
- ICs/Semiconductors
  - Charge Pumps 832
  - Interface 837
- Real Time Clocks 830

Equinox Technologies
- Programmers 406

Erem
- Hand Tools 1740
  - Cutters 1740
  - Tweezers 1740

E-Switch, Inc.
- Switches digikey.com
  - Caps 1562, 1579-1580
  - Illuminated 1573
  - Keylock 1593
  - Momentary Tact 1541
  - Power 1579
  - Pushbutton 1579-1581
  - Rocker 1572-1573
  - Rotary 1605
  - Slide 1588-1589
  - Toggle 1562-1563

E-T-A
- Circuit Breakers, Thermal 1528-1529

ETC (see Molex)

E-Z-Hook
- Alligator Clips 1764-1765
- Banana Plugs/Jacks 1764
- Cable Wall Brackets 1765
- Coaxial Test Cables 1766
- Hooks 1764
- Patch Cords 1765
- Probes 1764
- Test Leads 1765-1766

F

Fairchild Semiconductor
- ICs/Semiconductors
  - 4000 747
  - 7400 744-747
  - 95HS 746
  - HS/UHS Series 750
  - Linear 747-749
  - Op Amps 749-750
  - Power Control 749-751
  - PWM (Pulse Width Modulator) 749
  - Specialized 749-750
  - TinyLogic™ 750
- IGBTs 917
- MOSFETs 914-916
- Transistors 963-964

Fairchild Semiconductor/ Optoelectronics Group
- LEDs 1932, 1958-1959
  - 7-Segment Display 1958
  - Bar Graph Arrays 1959
  - Infrared 1932
  - Light Bars 1959
- Optoisolators
  - High Speed digikey.com
  - SCR/Triac Output 1857
  - Transistor Output 1856-1857
- Photo Transistors 1869

FCI
- Cable Assemblies
  - Fiber Optic digikey.com
- Connectors
  - 0.3mm 65
  - 0.5mm 65-66
  - 0.8mm 66, 100-101
  - 1.0mm 66-68, 101
  - 1.27mm 101
  - Backplane 342
  - Board-to-Board 100-102
    - Floating 102
  - DIN Rectangular 342
  - FFC/FPC (Flat Flex) 56, 65-68
  - HDMI 345
  - Headers
    - 0.100" (2.54mm) 118
    - IDC 43
  - IDC Ribbon Cable, Socket 43
  - Memory
    - Card Connectors 342
    - DIMM 342
  - Modular 228
  - Power 102
  - Terminal Blocks digikey.com
  - USB 52
- Sockets, DIMM 342
- Tools, Crimp 43, 56, 118

FEIG ELECTRONIC
- RFid Antenna 384-385
- RFid Readers 384-385

Flambeau, Inc.
- Conductive Cases and Cabinets 1697

Fox Electronics
- Crystals 1064-1065
- Oscillators 1065
  - TCXO 1065

Freescale Semiconductor, Inc.
- Development Tools
  - DSP Emulators/Programmers 519
  - Evaluation Kits 386, 507, 510, 519
  - Programmers 512, 517, 519
  - Software 519
- ICs/Semiconductors
  - Analog/Octal Serial Switches 558
  - Buffers 557
  - Clock Drivers/ Generators 557-558
  - D/A Converters 558
  - Digital Signal Processors 518
  - Display Drivers 558
  - Encoders/Decoders 559
  - Frequency Conversion 559
  - Interface 558-559
  - Math Co-Processor 558
  - Microcontrollers 506-510, 512-517
  - Microprocessors 512-517, 558
  - Telecommunications
    - ISDN U-Interface Transceivers 559
    - PCM Codec-Filter 559
    - Voice Switched Speakerphone 559
- RF/IF
  - Amplifiers 383
  - Receivers/Transmitters 386, 559
  - Transistors 386
- Sensors digikey.com
  - Accelerometers 1884-1885
  - Pressure, Temp. Comp. 1885-1886
  - Smoke Detection 558

Future Designs, Inc.
- Development Tools and Kits
  - LCD Demo Kit 495
  - Programmer Kits 495

G

GC Electronics
- Etch Resist Pens 1736
- Etching Equipment 1736
- Fish Paper digikey.com
- Terminals, Spring Push 249
- Test Lead Jumpers 1763
- Tool, Nibbler 1696

Items listed as digikey.com do not appear in the catalog, but appear on the Digi-Key Web Site.

GE Sensing
- Fuses, PTC Resettable ... 1907
- Inrush Current Limiters ... 1907
- Sensors ... digikey.com
- Thermistors ... 1904-1905
  - NTC ... 1904-1905
  - PTC ... 1905, 1907

Gems Sensors
- Pressure Transducers ... 1911
- Relays, Safety ... 1911
- Sensors
  - Conductive Switches ... 1909
  - Electromechanical ... 1909
    - Level Switches ... 1909
  - Electro-Optic ... 1911
  - Float Type Level Switch ... 1911
    - Fabri-Level™ Kits ... 1911
  - Flow ... 1911
  - Flow Switches ... 1910
  - Solid State Zener Barrier Switch ... 1911

General Cable/Carol Brand
- Cable/Wire
  - Category 5e ... 1673
  - Coaxial ... 1672
  - Datacom ... 1673
  - Hook-Up ... 1668
  - Instrumentation ... 1671
  - Microphone ... 1672
  - Multiconductor ... 1668-1671, 1673
  - Multi-Paired Shielded ... 1671, 1673
  - Plenum ... 1669-1670, 1673
  - Shielded ... 1669-1670, 1673
  - Speaker ... 1668
  - Test Leads ... 1668
  - UTP High Speed Data/LAN ... 1673

General Semiconductor (see Vishay)

Grayhill
- Encoders ... 1615
- I/O Modules ... 1654
- Keypads ... 1551
- Switches
  - DIP ... 1610, 1613
  - Pushbutton ... 1551, 1579-1580
  - Rotary ... 1605, 1613, 1615

H

Hamlin Electronics
- Magnets ... 1624
- Relays, Reed ... 1622
- Sensors
  - Hall Effect ... 1879
  - Position ... 1625
- Switches, Magnetic ... 1624

Hammond Manufacturing
- Connectors ... digikey.com
- Chokes ... digikey.com
- Enclosures/Boxes ... 1708-1710
- Hardware ... digikey.com
- Inductors ... digikey.com
- Racks and Accessories ... 1706-1707
- Transformers ... 1806

Helicomm, Inc.
- RF Modules and Development Kits ... 383

Hirose Electric Co., Ltd.
- Cable Assemblies
  - Modular ... 220
  - UFL ... digikey.com
  - USB ... 51
- Connectors ... digikey.com
  - 0.3mm ... 59
  - 0.4mm ... 59, 69
  - 0.5mm ... 59-61, 70-72
  - 0.6mm ... 73
  - 0.65mm ... 73
  - 0.8mm ... 74
  - 1mm ... 60-61, 74, 76
  - 1.25mm ... 69, 77-78
  - 1.27mm ... 75-76, 189
  - 2mm ... 78-84, 91-92, 349
    - Discrete Wire ... 91-92
    - Hard Metric ... 349
  - 2.5mm ... 86-88
  - 2.54mm ... 85
  - 3.96mm ... 89
  - 5mm ... 90
  - 7.92mm ... 90
  - Adapter, AC ... 149
  - Circular ... 290-297
    - Microphone ... 295
    - Miniature ... 295-296
    - Push-Pull Lock ... 290-292, 295-297
    - Screwlock ... 294-296
  - Coaxial ... 333-335
  - DIMM Sockets ... 353
  - FFC/FPC ... 59-61
  - High Density ... 189
  - Interface ... 148-150, 225
  - I/O ... 148-149
  - Memory Card
    - Compact Flash ... 356
    - PC Card ... 354
    - PCMCIA ... 354
    - Secure Digital ... 356
    - SIM Card ... 352
    - SmartMedia Card ... 352
  - Modular ... 225
  - Power ... 249
  - Power Supply ... 89-90, 149
  - Rack and Panel ... 150
  - Rectangular, DIN ... 346
  - RF, Miniature ... 334
  - Tool, HR25 ... digikey.com
  - USB ... 51
  - Video ... 292-293
  - Water Resistant ... 292-295
- Fiber Optic
  - Adapters ... 230
  - Attenuators ... 230
  - Connectors ... 230
  - Ferrules ... 230
  - Terminals ... 230
- Tools
  - Crimp ... 76-79, 81, 83-84, 87-90, 149-150, 291, 293-297, 318
  - Insertion/Extraction ... 77, 83, 87-88, 149-150, 291, 294, 297

Hoei America, Inc.
- Adapters, RF ... digikey.com
- Cable Assemblies, RF ... digikey.com
- Solder ... digikey.com

Honeywell Sensing and Control
- Sensors
  - Current ... 1880
  - Hall Effect ... 1880
  - Magnetoresistive ... 1880
  - Optical ... 1875
  - Switch ... 1880
  - Temperature ... 1880

Honeywell Sensing/SenSym ICT
- Sensors, Pressure ... 1882-1883
- Transducers, Pressure ... 1882-1883

Honeywell SSEC
- Attenuators ... 383
- Evaluation Board ... 383
- RF Switches ... 383
- Sensors
  - Digital Compass ... 1890-1891
  - Kits ... 1890-1891
  - Magnetic ... 1890-1891

Horn Industrial Co., Ltd.
- Microphones, Electret Condenser ... 1692

Humirel
- Sensors
  - Humidity ... 1895
  - Temperature ... 1895

Huntington Electric, Inc.
- Resistors ... 1403-1406
  - Audio ... 1405
  - Capacitor Mount ... 1405
  - Current Sensing Shunts ... 1405
  - Lo-Ohm ... 1404
  - Metal Case ... 1405
  - Wirewound ... 1403-1404, 1406

I

IERC
- Heat Sinks ... 867

ImageCraft Creations, Inc.
- C-Compiler
  - ARM ... 468
  - AVR ... 468
  - Freescale ... 468
  - TI MSP430 ... 468

Industrial Fiber Optics
- Fiber Optic
  - Accessories ... digikey.com
  - Bare Fiber ... digikey.com
  - Cable ... digikey.com
  - Connector ... 233
  - Emitters/Detectors ... 233
  - Kits ... digikey.com
  - LEDs ... 233
  - Photo Detectors ... 233
  - Tools ... digikey.com

Infineon Technologies
- Diodes
  - Schottky ... 958
  - Switching ... 958
  - Variable Capacitance ... 958
- Integrated Circuits/Semiconductors
  - Interface ... 566
  - Power Management ... 566
  - Sensors ... 566
  - Specialized ... 566
- Transistors ... 936-937, 958
  - IGBTs ... 937
  - MOSFETs ... 936-937

Injectorall Electronics
- Prototyping Boards and Accessories
  - Breadboards ... 1734-1735
  - PCB Drill Bits ... 1735

Intel
- Bridge Controllers ... 564
- Controllers (PCI/LAN/WAN/CAN) ... 563
- Demodulation and Coding Products ... 565
- Direct Digital Synthesis Products ... 565
- Embedded Intel Architecture Microprocessors ... 559-560
- Ethernet Controllers ... 563
- Ethernet Phys ... digikey.com
- Ethernet Repeaters ... 564
- Ethernet TX/RX ... 563-564
- Flash Memory ... 564-565
- i960 Microprocessors ... 562-563
- Interface Adapters/Cards ... 564
- I/O Processors ... 561
- MCS® 51 Microcontrollers ... 561-562
- MCS® 96 Microcontrollers ... 562
- MCS® 251 Microprocessors ... 562
- Modem Chipsets, Controllers, DSPs, AFEs ... 565
- Network Processors ... 561
- PCI-to-PCI Bridges ... 564
- Peripheral Interface Products ... 565
- Processor Modules ... 560
- Strong Arm® Processors ... 560
- Telecom Broadband ... 564
- Xscale™ Processors
  - Handheld Application ... 565
  - Network ... 565
  - Storage ... 565

International Rectifier
- Bridge Rectifiers ... 983
- Diodes/Rectifiers ... 918-932, 979-986
  - HEXFETs ... 920-932
  - HexFred ... 918-919
  - Schottky Rectifiers ... 979-983
- Integrated Circuits
  - Control/Power ... 833-835
  - Regulators/Switching Controllers ... 835-836
- Lighting Ballast ... digikey.com
- Optoelectronics Relays ... 1655
- Photovoltaic Isolators ... 932
- SCRs ... 1019
- Transistors, IGBT ... 911-913

Intersil
- ICs/Semiconductors
  - Amplifiers ... 757-758
  - CPU Supervisors ... 758-759
  - Data Conversion ... 759
  - Drivers/Receivers ... 762-764
  - EEPROM, Parallel ... 764-765
  - Interface ... 764
  - Potentiometers, Digital ... 760-762
  - Power Management ... 765
  - Real Time Clocks ... 759, 765
  - Specialized ICs ... 765
  - Switches, Arrays ... 765-766
  - Timers ... 759
  - Video Communication ... 766
  - Voltage Reference ... 766

I/O Interconnect
- Modular Cable Assemblies ... 218-220

ITC
- Transducer, Ultrasonic ... digikey.com

ITT (C&K Switches)
- Encoders, Navigation ... 1616
- Keypads ... 1551
- Sensors, Magnetic ... 1623
- Smart Card ... 359
- Switches
  - Accessories ... 1545, 1548, 1555, 1578, 1580
  - Caps ... 1545-1546
  - Detector Switch ... 1539
  - DIP ... 1606-1608
  - Door Interlocks ... 1603
  - Keyswitch ... 1542, 1548, 1592
    - Illuminated ... 1543, 1575
  - Pushbutton ... 1539, 1542-1543, 1545-1548, 1575-1578, 1580
  - Rocker ... 1569-1570
  - Rotary ... 1548, 1606-1607
  - Slide ... 1590-1591
  - Snap Acting ... 1539, 1603
  - Tact ... 1542-1547
  - Thumbwheel ... 1591
  - Toggle ... 1555-1558
- Switchlocks ... 1592

ITW Chemtronics
- Desoldering Braid ... 1752
- ESD Hand Lotion ... 1746
- Flux Pens ... 1752
- Heat Sink Grease ... 871
- Swabs and Applicators ... 1752
- Wipes ... 1752

IXYS
- Diodes/Rectifiers ... 933
- FRED ... 933
- ICs/Semiconductors ... 933-934
- IGBT Transistors ... 934
- MOSFETs ... 933-934
- SCRs ... 934

J

Jennic, Ltd.
- Evaluation and Development Kits ... 386
- Wireless Microcontrollers ... 386
- Wireless Modules ... 386

Jewell Instruments
- Panel Meters ... 1923-1924
  - Analog ... 1924
  - Digital ... 1923-1924

JKL Components Corporation
- Inverters
  - CCFL and UV Lamps ... 1917
  - EL Backlighting ... 1917
- Lamps
  - Assemblies ... 1917
  - CCFL ... 1917
  - UV ... 1917
- LEDs
  - Blue ... digikey.com
  - Caps ... digikey.com

Johnson Components (see Emerson Network Power Connectivity Solutions)

JRC (see NJR)

JST Sales America, Inc.
- Connectors
  - 0.5mm ... 93
  - 1.0mm ... 93-94
  - 1.25mm ... 94
  - 1.5mm ... 94-95
  - 2.0mm ... 95-98
  - 2.5mm ... 98-99
  - 3.96mm ... 99
  - Headers ... 93-99
  - Quick Connect Terminals ... 259
- Terminals, Board-in Crimp ... 99, 1867-1868
- Tool, Crimp ... 94-99, 1867-1868

Judco Manufacturing
- Switches, Pushbutton ... 1573

J.W. Miller Magnetics
- Common Mode Chokes ... 1133
- Ferrite Bead Cores ... 1137
- Filters, EMI ... 1138
- Inductors ... digikey.com
  - Fixed ... 1124-1130, 1133, 1137
  - High Current ... 1124, 1127-1128, 1131-1133
  - Power ... 1127, 1129-1130
  - Toroid ... 1127-1128, 1131-1133
- Inverters, CCFL ... 1916
- RF Chokes ... 1134-1136
- Transformers ... 1126, 1916

Items listed as digikey.com do not appear in the catalog, but appear on the Digi-Key Web Site.

K

K & D Magnetics, Inc.
- (see Radial Magnet, Inc.)

KEMET
- Capacitors
  - Aluminum Organic 1275
  - Ceramic
    - Axial 1305-1306
    - Radial 1307-1310
  - Multilayer Ceramic Chip 1341-1345
  - Tantalum 1263-1275
    - Axial 1264-1265
    - Radial 1263-1264

Kester
- Flux Pens 1754
- Solder 1753
- Solder Paste 1754

Keystone Electronics Corp.
- Banana Plugs digikey.com
- Battery Clips/Holders 1782
- Board, Prepunched Insulating 1725
- Cable Clamps 1727
- Circuit Board Accessories 1729
  - Binding Posts 1729
  - Test Points 1729
- Connector Hardware 193
- Enclosures 1696
- Fuse Holders 1511
- Handles digikey.com
- Hardware
  - Bumpers 1727
  - Bushings, Shoulder 1727
  - Grommets 1725
  - Mounting Brackets 1725
  - Spacers/Standoffs 1725-1727
  - Washers, Flat 1727
- Kits
  - Spacers 1725
  - Standoffs 1726
  - Thermistors 1772
- Knobs, Instrumentation 1460
- MICA Insulators 873
- Phono Jacks/Plugs 335
- Sockets, Transistor 873
- Terminals
  - PC Quick-Fit 1724
  - Screw 1724
  - Test Points 1724, 1729

Kilo International
- Dials, Concentric Scale 1459
- Knobs, Aluminum 1458-1459

Kodak (see Eastman Kodak)

Knowles Acoustics
- Boom Assembly digikey.com
- Microphones
  - Electret 1693-1694
  - Magnetic 1694
- Sensors
  - Accelerometer 1694
  - Vibration 1694
- Speakers, Headset/Handset 1695
- Transducers 1695

L

Lamina Ceramics
- LED Arrays 1946
- LED Plug and Play Evaluation Kit 1946

LEM USA, Inc.
- Current Transducers 1888
- Voltage Transducers 1888

Linear Technology
- ICs/Semiconductors
  - Amplifiers
    - Comparators 802-803
    - Op Amps 797-803
  - Data Conversion
    - Current Output ADC 817
    - Delta-Sigma ADC 816-817
    - General Purpose ADC 815-816
    - High Speed ADC 817
    - Multiplexers 818
    - Special Function DAC 818
    - Voltage Output DAC 817-818
  - Filters 803
  - Interface 818-820
  - Oscillators 1063
  - Power Management 803-813
    - Battery Chargers 812
    - CCFL/LCD 813
    - Charge Pump 811-812
    - CPU Core Power 812
    - Hot Swap 812-813
    - MOSFET Drivers 813
    - PCMCIA 813
    - Power Controllers 811
    - Power Supply Trackers 813
    - PWM (Pulse Width Modulator) 813
    - Regulators 803-810
    - SIM Interface 813
    - Supervisors 810-811
  - References 814-815
  - RF/High Frequency Products 387
  - Specialized 820-821

Linx Technologies
- Broadband Amplifiers 388
- Connectors, RP-SMA 389
- Encoders/Decoders 388
- Evaluation Kits 388
- RF/OEM Modules and Kits 387-388
- Tools, Crimp 389

Linx Technologies/Antenna Factor
- Antennas 389-390

Lite-On, Inc.
- LEDs 1869, 1959-1964
  - 7-Segment Displays 1960
  - Alphanumeric 1960
  - Bar Graph Arrays 1959
  - Blue 1961-1962, 1964
  - Dot Matrix Displays 1959
  - Highbrightness 1961-1962, 1964
  - Infrared 1869
  - Numeric Displays 1960
  - Round, Large 1959
- Optoisolators 1851

Littelfuse
- ESD 1474, 1504-1505
- Fuses 1504-1511
  - 1/4" Diameter AG 1510
  - 2AG 1509
  - 3AB 1509
  - 3AG 1510
  - 5 x 20mm 1507-1508
  - 8AG 1510
  - Alarm Indicating 1508
  - Automotive 1508-1509
  - Hazardous Area Fuses
    - Barrier Network 1508
    - Safe-T-Plus 1508
  - Kits 1505-1510, 1770
  - Metric 1507-1508
  - Pico 1506-1507
  - PTC Resettable 1504
  - Telecom 1505
- Holders 1511-1513
  - Automotive 1511
  - Blocks 1512
  - Clips 1511-1512
  - Panel Mount 1511-1513
  - PC Mount 1511-1513
- Surgectors digikey.com
- TVS 1473-1474, 1488-1489, 1504
- Varistors 1473-1474
  - Metal Oxide 1474
  - Multilayer 1473-1474

LMB Heeger
- Enclosures 1696

Logic Product Development
- Microcontroller Development Kits 443

Logical Systems
- Programming/Prototyping Adapters 405

Lumex Opto-Components, Inc.
- Laser Diodes 1933
- LCDs 1920, 1934
  - 7-Segment Display 1920, 1934
  - Dot Matrix Display 1920
  - Graphic Modules 1920
  - TFT LCD Modules 1920
- LEDs
  - 7-Segment Displays 1934
  - AlInGaP 1941
  - Array/Light Bars 1942
  - Bi-Color 1937-1940, 1942
  - Blue 1935, 1940-1941, 1943
  - Clusters 1942
  - DSP 1935
  - Flashing 1942
  - High Brightness 1935
  - Holders 1943-1944
  - Infrared 1878
  - InGaN 1941
  - Low Battery Indicators 1942
  - Mega-Brite 1942
  - Panel Mount 1943-1944
  - PC Mount 1937-1938
  - RGB (Red/Green/Blue) 1936, 1941
  - Surface Mount 1939-1941
  - Tester Box 1942
  - Violet digikey.com
  - White 1935
- Light Pipes 1938
- Kits, Demo digikey.com
- Optoisolators 1851
- Surge Arrestors 1478
- Switches, Illuminated
  - Pushbutton 1574
  - Rocker 1574
  - Toggle 1574

Luxo
- Illumination Lamps 1767
- Worklights 1767
  - Replacement Bulbs 1767

M

Mallory Sonalert Products, Inc.
- Buzzers 1686-1688

Martel Electronics
- Panel Meters 1928-1929
  - Volt/Ammeter 1929
  - Volt Meter 1928

Master Appliance Co.
- Heat Guns 1678

Maxim Integrated Products
- ICs/Semiconductors 837-846

MaxStream, Inc.
- Ethernet Bridge 391
- Interface Boards 391
- RF/OEM Modules 391
- Wireless Development Kits 391

MCC (Micro Commercial Components)
- Diodes 945-950
- MOSFETs 951
- Thyristors 1496
- Transistors 951
- Voltage Regulators 743-744

Meder electronic
- Sensors
  - Level 1910
  - Magnetic 1619

Melexis
- Integrated Circuits, Specialized 862
- RF Transmitters/Receivers 392
- Sensors, Hall Effect 1879
  - Programmable 1879

Metcal (Division of OK International)
- Solder/Desolder Systems 1747-1748
  - Accessories 1747-1748
  - Replacement Tips 1747-1748

MG Chemicals
- Copper Clad Boards 1735
- Desolder Braid 1735
- Etching Equipment 1735
- Flux Pens 1735
- Prototyping Accessories 1735
- Swabs and Brushes 1735

Micrel, Inc.
- ICs/Semiconductors
  - 10/100 Ethernet 702-703
  - Battery Chargers 703
  - Comparators 703
  - Display Drivers 703
  - Drivers, Latched 704
  - Fan Management 703
  - Hot Swap 703
  - Interface 702-704
  - MOSFETs/MOSFET Drivers 706
  - Op Amps 706
  - Power Switches 706
  - Regulators 706-707
  - RF Transmitters/Receivers 392
  - Switches
    - High Side 703
    - USB/General Purpose 707
  - System Supervisors 707
  - Timers 707
  - USB Transceivers 707
  - Voltage References 706
  - Voltage Regulators, LDO 705-706

Microchip Technology, Inc.
- Analog 470-480
  - Interface 480
    - CAN and LIN 480
    - Ethernet 480
    - Infrared 480
    - LCD Drivers 480
    - Serial Peripherals 480
  - Linear 477-479
    - Comparators 479
    - Op Amps 477-478
    - Programmable Gain Amplifiers 479
  - Mixed Signal 474-477
    - A/D Converters 474-475, 477
    - D/A Converters 475
    - Digital Potentiometers 476
    - Energy Measurement 477
    - F/V and V/F Converters 476
  - Power Management 470-474
    - Battery Management 473
    - DC-to-DC Converters 471
    - MOSFET Drivers 473-474
    - PWM Controllers 472
    - Supervisors 470-471
    - Voltage Detectors 471
    - Voltage Regulators 471-473
  - Thermal Management 479-480
    - Fan Controllers 480
    - Temperature Sensors 479
- Development System Matrix 459-466
- Development Tools 466-467
  - Debuggers 467
  - Demo Kits 466
  - Device Adapters 467
  - Emulators 467
  - Processor Modules 467
  - Programmers 467
  - Socket Modules 467
  - Software 466
  - Transition Sockets 467
- Memory 850-854
  - I^2C 850-851
  - Microwire 852-854
  - SPI 851-852
- Microcontrollers
  - Application Specific 455-458
    - CAN 456-458
    - Ethernet 455
    - LCD 458
    - Motor Control 455-456
    - RF 447
    - USB 458
  - dsPIC 454-455
    - dsPIC30 454-455
    - dsPIC33 455
  - PIC 446-454
    - PIC10 448
    - PIC12 448
    - PIC16 446-451
    - PIC18 447, 451-454
    - PIC24 454

microEngineering Labs, Inc.
- Compiler, PicBasic 468

Micron Technology, Inc.
- CMOS Image Sensors 521
  - Evaluation Kits 521
- Memory ICs
  - DDR 849-850
  - DDR2 850
  - Flash 850
  - PSRAM 850
  - SDRAM 849
- Memory Modules 866

Microsemi
- Diode Arrays 948
- Diodes/Rectifiers 975, 999-1000
  - PIN 975
  - Schottky 999
  - Zener 975
- TVS 1483

Microsemi-IPG
- ICs/Semiconductors
  - CCFL Modules/Controllers 796
  - EMI/ESD Protection 796
  - Interface 796
  - Light Applications 796
  - Rectifier Modules 796
  - Voltage Regulators 796-797

Mill-Max
- Connectors digikey.com
  - Spring-Loaded Contacts 368
  - USB (Universal Serial Bus) 368
- Headers, Pin 367-369

Items listed as **digikey.com** *do not appear in the catalog, but appear on the Digi-Key Web Site.*

- IC Sockets ... digikey.com
  - DIP Socket Carrier ... 363
  - Low-Profile ... 363-365
  - Machine Pin ... 364-365
  - PGA ... 363
  - Pin ... 366-369
  - PLCC ... 362-363
  - Receptacles ... 364-371
  - Solder Tail ... 363-365
  - Strip ... 366-367, 369
  - Transistor ... 873
  - USB Receptacles ... 368
  - Wire Wrap ... 364-365
  - Zig-Zag ... 371
- Jumpers ... digikey.com
- PC Pins/Receptacles ... 370-371
- Shunts ... digikey.com

Modern Technology
- Stepper Motor Driver Board ... 874

Modutec (see Jewell Instruments)

Molex
- Cable, 1mm Flat/Round Conductor ... 111
- Cable Assemblies, USB ... 52
- Cable Connection Kit ... 146
- Connectors ... digikey.com
  - 0.05mm ... digikey.com
  - 0.05" Picoflex™ ... 42
  - 0.062" ... 146
  - 0.100" ... 123
  - 0.156" ... 123-124
  - 0.5mm ... 63
  - 1.00mm ... 63
  - 1.25mm ... 64, 69
  - 1.5mm Pico-SPOX™ ... 103
  - 2mm Cable-to-Board ... 111
  - 2mm Sherlock™ ... 103
  - 2.5mm SPOX™ ... 106
  - Beau
    - Barrier Blocks ... 250-251
    - Terminal Blocks ... 250-251
  - Blindmate (BMI) ... 138-140, 144
  - C-Grid ... 124-127
  - Crimp Terminals ... 122, 124-125
  - Disk Drive ... 144
  - ETC
    - Crimp Terminals ... 257-258
  - FFC/FPC ... 63-64
  - GBIC ... 357
  - HSSDC2 ... 357
  - IEEE 1394 (Firewire) ... 52
  - IEEE 1386 (Mezzanine) ... 140
  - Infiniband ... 357
  - I/O ... 148
  - Memory
    - Compact Flash ... 356
    - DDR DIMM ... 355
    - DIMM ... 355
    - SIMM ... 355
    - SO DIMM ... 355
    - TransFlash ... 356
  - MicroCross™ DVI ... 141
  - Micro-Fit 3.0™ ... 138-140
  - Milli-Grid™ 2mm ... 104-106
  - Mini-Fit BMI™ ... 144
  - Mini-Fit HCS™ ... 144
  - Mini-Fit Jr.™ ... 142-143
  - Mini-Fit SMC™ ... 144
  - Mini-Fit Sr.™ ... 145
  - Modular Jacks ... 226
  - MX150L ... 287
  - PanelMate ... 64
  - PCI Express ... 355
  - Power ... 124, 145-147
    - MLX .084" ... 146
  - Power Edge™ ... 345
  - Sabre™ ... 145
  - SCSI ... 357
  - Serial ATA ... 141
  - SFP (Small Frame Pluggable) ... 357
  - Switch ... 1602
  - Toy Car Battery ... 124
  - USB ... 52
  - VHDCI ... 357
  - Waterproof ... 287
  - XFP ... 357
- Flat Cable Jumpers ... 43, 63-64
- Headers
  - 0.156" (3.96mm) ... 122
  - C-Grid ... 119-120, 126-127
  - KK Series ... 119-121
- Tools
  - Crimp ... 42, 64, 69, 103, 106, 121-122, 124-125, 140, 143-147, 259
  - Insertion/Extraction ... 69, 121-122, 125, 140, 143, 145-147
- Transistor Sockets ... 873

MPD (Memory Protection Devices)
- Automotive Power Plug/Socket ... 1784
- Battery Holders ... 1783-1784
- Cigarette Lighter Plug ... 1784

MSI (Measurement Specialties)
- Accelerometers ... 1899
- Kits, Piezo Sensor ... 1899
- Sensors
  - Load Cells ... 1895
  - Piezo ... 1899
  - Pressure ... 1892-1893
  - Vibration ... 1899
- Transducers, Pressure ... 1892

MSI/Schaevitz
- Boards, LVDT ... 1894
- Clinometers ... 1894
- Protractors, Digital ... 1894
- Transducers
  - Pressure ... 1894
  - Rotary Variable Inductance (RVIT) ... 1894

M-Systems, Inc.
- Evaluation Boards and Adapters ... 861
- Memory Cards
  - DiskOnChip Flash Disks ... 861, 865

Mueller
- Alligator Clips ... 1763
- Insulators ... 1763
- Test Clips ... 1763
- Test Leads and Kits ... 1763

Multi-Tech Systems, Inc.
- Socket Modems ... 393

Murata Electronics
- Capacitors
  - Ceramic, Trimmer ... 1381-1382
  - Monolithic Ceramic Chip ... 1346-1348, 1358-1359
  - Multilayer Ceramic Chip ... 1348-1358
  - Tuning Tools ... 1381-1382
- Chokes ... 1087
- Coils
  - Film ... 1085
  - Monolithic ... 1085
  - Wirewound ... 1086-1087
- EMI Suppression
  - Arrays ... 1144
  - Ferrite Chips ... 1144-1145
  - Filter Capacitor Type ... 1145
  - LC Combined Chip ... 1145
- Filters
  - Ceramic ... 1071
  - Discriminator ... 1071
- Inductors ... digikey.com
- Potentiometers ... 1432-1435
- Resonators, Ceramic ... 1072
- Thermistors ... 1900, 1905

N

Nakagawa Manufacturing
- Paper, Thermal Printer ... 1720

National Semiconductor
- ICs/Semiconductors
  - A/D, D/A Converters ... 781, 829-830
  - Audio Amp ... 778, 780-782
  - Battery Charge Controller ... 776, 790
  - Data Communications ... 766
  - DC-DC Converters ... 772, 774-777
  - Hot Swap ... 782
  - Interface ... 830-832
  - Linear ... 766-794, 796
  - Microcontrollers ... 767
  - Microprocessor Reset Circuits ... 768, 770, 777-789, 794
  - MOSFET Driver/Controllers ... 774, 786
  - Op Amps ... 767-770, 775, 778-786, 794
  - PLL/Frequency Sysnthesizers ... 393
  - Switch Regulators ... 770-772, 774, 776, 782-783
  - Telecommunication ... 797
  - Temperature Sensors ... 767-769
  - UARTs ... 829
  - Voltage Reference ... 768-769, 778-780
  - Voltage Regulators ... 768-776, 778, 783-784, 786-794

NEC
- Optoisolators
  - High Speed Digital ... 1853
  - Photo Transistor Output ... 1852-1853
- Relay, Solid State ... 1663
- RF and Microwave Products
  - Amplifiers, Wideband ... 952
  - Prescalers ... 953
  - Transistors ... 952

Needhams Electronics
- Programmers ... 406
- RF Modules ... digikey.com

NessCap
- Pseudocapacitor ... 1182
- Ultracapacitor ... 1182

NetBurner, Inc.
- Development Kits ... 520
- Microprocessor Modules ... 520

Newava Technology, Inc.
- Inductors ... 1108
- Transformers ... 1108

Nichicon
- Capacitors
  - Aluminum Electrolytic ... 1212-1228
  - Tantalum Electrolytic ... 1252-1253

NJR Corporation
- Integrated Circuits
  - Drivers ... 826
  - Multiplexers ... 826
  - Op Amps ... 824-826
  - Power Management ... 826-827
  - Specialized ... 827-828
  - Stepper Motor Controller/Driver ... 826
  - Switches ... 828
  - Timers ... digikey.com
  - Voltage Regulators ... 826-827

NKK Switches
- Switches
  - Accessories ... 1563, 1565-1566, 1587
    - Splashproof Boots ... 1565
  - Illuminated ... 1563, 1586-1587
  - Keylock ... 1593
  - Pushbutton ... 1586-1587
  - Rocker ... 1568, 1571
  - Tact ... 1586
  - Toggle ... 1563-1566

NMB–MAT
- Fans/Blowers ... 1785-1789

NorComp
- Backshells, D-Sub ... 212-214
- Connectors ... digikey.com
  - 2mm ... 85
  - Centronics ... 208
  - DIN Rectangular ... 362
  - D-Sub ... 204-214
  - Hardware ... 214
  - IDC ... digikey.com
  - Parallel Interface ... 208
- Shunts ... 85
- Tools
  - Crimp ... 204, 208
  - Insertion/Extraction ... 204, 208, 214

Noritake
- Displays, Vacuum Fluorescent ... 1919

NVE Corporation
- GMR Sensor Evaluation Kit ... 1909
- Isolators, Digital and Analog ... 1861
- Sensors, Magnetic ... 1909
- Voltage Regulators ... 1909

O

Ohmite
- Resistors
  - Carbon Composition ... 1408
  - Ceramic Composition ... 1408-1409, 1416
  - Current Sensing ... 1413-1415
  - Heat Sink Mountable ... 1409, 1411-1412
  - Metal Element ... 1414
  - Metal Oxide Film ... 1412
  - Power ... 1407-1410, 1412, 1415-1416
  - Thick Film ... 1407, 1409, 1412-1413
  - Wire Element ... 1414
  - Wirewound ... 1407, 1410-1411, 1413, 1416-1417
- Rheostats ... 1417

OK Industries (Div. of Jonard Ind. Corp.)
- Cable/Wire, Wire-Wrap ... 1738
- Desoldering Pump ... 1751
- Fume Absorber ... 1751
- Socket-Wrap I.D. ... 362
- Tools
  - Insertion/Extraction IC ... 376
  - Kits ... digikey.com
  - Pin Extractor ... digikey.com
  - Wire Strippers ... 1668, 1738
  - Wire Wrapping ... 1738

Omron Electronics, Inc.
- Buzzers ... digikey.com
- Connectors, FFC/FPC ... 62-63
- Controllers, Temperature ... 1926-1927
- Counters/Timers ... 1925-1926
- Fiber Optic
  - Amplifiers ... 1897
  - Cable ... 1897
  - Switches ... 232
- Magnetic Card Readers ... 1723
- Photo Microsensor ... 1873
- Power Supplies ... 1840
- Relays ... digikey.com
  - Mechanical ... 1628-1630, 1632-1636
  - Solid State ... 1661-1662
- Sensors
  - Capacitive Proximity ... 1897
  - Fiber Optic ... 1897
  - Flow ... 1873-1874
  - Inductive Proximity ... 1874
  - Optical ... 1870, 1873
  - Photoelectric ... 1897
  - Pressure ... 1874
  - Tilt ... 1874
  - Vibration ... 1874
- Switches
  - Accessories ... 1582-1583
  - Door ... 1596-1597
  - Key Switch ... 1582, 1585
  - Knob Switch ... 1583, 1585
  - Lever/Snap ... 1594-1597
  - Limit ... 1597
  - Pushbutton ... 1582, 1584-1585, 1596
  - Rotary DIP ... 1605
  - Selector ... 1582-1583
  - Tact ... 1540, 1596
  - Thumbwheel ... 1554

ON Semiconductor
- Diodes/Rectifiers ... 977-978, 1005-1008
  - Schottky ... 1006-1008
  - Switching ... 1008
  - Zener ... 977-978
- Integrated Circuits
  - Analog Switches ... 717
  - Buffers ... 709-712, 716-717
  - Clock Drivers ... 711-712, 714
  - Clock Generators ... 714
  - Comparators ... 708-709, 716
  - Counters/Timers ... 709-710, 712-713
  - DC-DC Converters ... 715-716
  - Digital Logic ... 709-711
  - EMI Filters ... 717
  - Hot Swap ... 716
  - Interface ... 707-718
  - LED Drivers ... 716-717
  - MPU Reset Circuits ... 709
  - Multiplexers ... 709-713, 717
  - Op Amps ... 708-709, 712-713, 716
  - PWM (Pulse Width Modulator) ... 707, 715-716
  - Receivers ... 709-710, 712
  - Switching Regulators ... 708, 713, 715
  - Transceivers ... 710
  - Voltage Detectors ... 713
  - Voltage References ... 708, 712, 718
  - Voltage Regulators ... 707-709, 711-715
- Kits, Semiconductor ... 1772
- MOSFETs ... 942-943
- SCRs ... 1018
- Transistors ... 959-961
- Triacs ... 1017
- TVS ... 1490, 1493-1495

On-Shore Technology
- IC Sockets ... 362
- Pin Headers ... 256
- Terminal Blocks ... 241, 252-256

Optichron, Inc.
- ICs, A/D Converters ... 533

Optrex America, Inc.
- Character LCD Modules ... 1915
- Graphic LCD Modules ... 1914
- TFT LCD Modules ... 1914
- TFT ToolKITS™ ... 1914

Osram Opto Semiconductors, Inc.
- LEDs ... 1970-1971
- OLED Displays ... 1915
- Optoelectronics
  - Infrared Emitters ... 1872
  - Photo Detectors ... 1872
  - Photo Diodes ... 1872
  - Photo Transistors ... 1872

P

Paladin Tools
- Cable Testers ... 220
- Connectors ... digikey.com
- Desoldering Pump ... 1751
- Kit, Termination ... digikey.com
- Tools ... digikey.com
  - Cable/Wire Strippers ... 220, 1742
  - Coaxial Cable Strippers ... 1742
  - Crimp ... 220
  - Modular Cable Strippers ... 220
  - Modular Crimp ... 220
  - Probe Pick ... 1742
  - Punchdown Tool ... 1742
  - Scissors/Knives ... 1742

Panasonic
- Attenuators ... 1423
- Audio Amps ... 822
- Balun ... 1139
- Batteries ... 1773-1778, 1780
  - Packs ... 1775, 1780
  - Rechargeable ... 1778
- Bead Cores ... 1152
- Buzzers ... 1685
- Capacitors
  - Aluminum Electrolytic ... 1169-1181, ... 1187-1211
  - Arrays ... 1317-1318, 1424
  - Bi-Polar ... 1169, 1197
  - Ceramic ... 1316-1319, 1321-1328
  - Ceramic Safety ... 1304, 1319
  - Computer Grade ... 1194
  - Electric Double Layer ... 1183-1184
  - Film ... 1282, 1286-1287, ... 1290-1299, 1303, 1311
  - Gold ... 1183-1184
  - Interference Suppressor ... 1311
  - Kits ... 1172, 1174, 1181, ... 1210-1211, 1328, 1770
  - Microwave Chip ... 1328
  - Networks ... 1424
  - Polyester ... 1280-1281, 1283, ... 1286-1287, 1295, 1311
  - Polypropylene ... 1296-1299
  - Snap-In ... 1187-1193
  - Specialty Polymer ... 1209-1211
  - Tantalum ... 1254, 1159
- Coils, Choke ... 1096-1101
- Coils, Voltage Step-Up ... 1096
- Couplers ... 1139
- DC-DC Converters ... 822, 1841
- DC-DC Power Modules ... 1841
- Diodes ... 894, 900-904
  - Schottky ... 900-901
  - Zener ... 903-904
- Encoders
  - Mechanical ... 1617
  - Rotary ... 1617-1618
- Ferrites
  - Flat Core ... 1157
  - Ring Core ... 1157
  - Snap-On Core ... 1157
- Filters
  - Digital Noise ... 1153-1154
  - EMI ... 1152-1154
  - LC ... 1152
  - Line ... 1154-1157
  - Noise Filter
    - 2-Mode ... 1153
    - Common Mode ... 1152-1153
  - SAW ... 1070
- Flashlights ... 1780
- Fuses ... 1502
- Graphite Sheets ... 871
- Inductors ... 1088-1094
  - Kits ... 1770
- ICs/Semiconductors ... 822, 824
  - MMIC Switches ... 902
- LEDs ... 1980-1984, In-Bk-Cvr, Bk-Cvr
  - Blue ... 1980-1982, In-Bk-Cvr
  - Numeric Displays ... In-Bk-Cvr
  - Surface Mount ... 1980-1982
  - Wide Angle ... 1984
- Magnetic Card Readers ... 1723
- Memory Cards ... 866
- Microcontrollers, Flash ... 520
- Microphone, Cartridges/Holders ... 1693
- MOSFETs ... 896-897
- Optoisolators ... 1857, 1878, 1881
  - Infrared LED ... 1881
  - Photo Diodes ... 1881
  - Photo Interrupter ... 1878
  - Photo Reflector ... 1881
  - Photo Transistors ... 1881
- Potentiometers
  - Audio ... 1461
  - Carbon ... 1468
  - Ceramic ... 1466-1467
  - Cermet ... 1462, 1468
  - Kits ... 1468, 1771
  - Position Sensor ... 1463
  - Rotary ... 1462
  - Slide ... 1463
  - Thumbwheel ... 1462
  - Trimmer ... 1462, 1464-1468
- Power Dividers ... 1139
- Resistor/Capacitor Networks ... 1424
- Resistors
  - Anti-Sulfurated ... digikey.com
  - Arrays ... 1422, 1424
  - Carbon Film ... 1400
  - Kits ... 1396, 1771
  - Metal Film ... 1399-1400
  - Metal Oxide Film ... 1400
  - Networks ... 1423
  - Thick Film ... 1396-1398
  - Wide Terminal ... digikey.com
  - Zerohm Jumper ... 1422
- Resonators
  - Ceramic ... 1069
  - SAW ... 1069
- RF/Hybrid
  - Attenuators ... 1423
  - Balun ... 1139
  - Directional Coupler ... 1139
  - Power Dividers ... 1139
- Semiconductors (see ICs/Semiconductors)
- Sensors, Hall Effect ... 1880
- Speakers
  - Micro ... 1683
  - Mini ... 1683
- Surge Absorbers ... 1469-1470, 1472
- Switches
  - Detector ... 1536-1537
  - Power ... 1538
  - Pushbutton ... 1531-1535, 1538
  - Slide ... 1538
- Thermal Cutoffs ... 1530
- Thermistors ... 1903
- Tools, Power Screwdriver ... 1739
- Transducers
  - Audio ... 1686
  - Ultrasonic Ceramic ... 1685
- Transformers, Piezoelectric ... 1915
- Transistors ... 892-900
- Varistors, Multilayer Chip ... 1471
- Voltage Detectors ... 863
- Voltage Regulators ... 822, 824
- ZigBee™ Communication Modules ... 394
- ZNRs ... 1469-1470, 1472

Panasonic Electric Works
- Counters/Timers ... 1931
- Relays
  - Mechanical ... 1637-1645
  - Solid State ... 1656-1657
- Sensors
  - Light ... 1876
  - Motion ... 1875

Panavise
- Bench Press, IDC Assembly ... 1740
- Circuit Board Holders ... 1740
- Vise Accessories ... 1740
- Vise, Magnetic Base Adapter ... 1740

Panduit
- Cable Clamps ... 1716-1717
- Connectors, Splice ... digikey.com
- Heat Shrink ... digikey.com
- Labels
  - Heat Shrink ... 1719
  - Thermal Transfer ... 1719
  - Wire Marker ... 1719
- Lockouts ... digikey.com
- Printers, Wire Marker ... 1719
- Raceway ... digikey.com
- Tools ... 1716-1717
- Wire Ducts and Accessories ... 1715
- Wire Ties ... 1716-1717

Parallax, Inc.
- BASIC Stamp ... digikey.com
  - Accessories ... 445
  - Books ... 445
  - Carrier Boards ... 445
  - Kits ... 445
  - Modules ... 445
- "Board of Education" Kit ... 445
  - BASIC Stamp ... 445
  - Programmers ... digikey.com
- Ubicom 5X Series ... digikey.com

Parlex Corporation
- Flat Flex Cable
  - 0.020" (0.5mm) ... 57
  - 0.040" (1mm) ... 57-58
  - 0.050" (1.27mm) ... 56
  - 0.100" (2.54mm) ... 56
  - Assemblies, DF9 ... 74

Patco Electronics
- Battery Chargers ... 1773

Patco Services, Inc.
- Stripper, Thermal Wire ... 1668

Pericom Semiconductor Corp.
- ICs/Semiconductors
  - Analog Switches ... 751
  - Bus Switches ... 752
  - Clock Drivers ... 752
  - Digital Logic
    - 74ALVCH ... 751
    - 74ALVTC ... 751
    - 74AVC ... 751
    - 74FCT ... 751
    - 74LPT ... 751
    - 74VCX ... 751
    - SOTiny™ ... 751
  - LVDS Data Transmission ... 751
  - Video Switches ... 752

Philips
- Development Tools and Kits ... 396, 497
  - Emulators ... 497
  - Evaluation Kits ... 396
  - Reader Modules ... 396
- Diacs ... 910
- Diodes/Rectifiers ... 908-910
  - PIN (RF) ... 909
  - Schottky ... 909-910
  - Variable ... 909
- ICs/Semiconductors
  - Amplifiers ... 394, 567
  - Clock Management ... 567
  - Data Communication ... 567-568
  - Data Conversion ... 568
  - Data Transmission ... 568-569
  - Digital Logic
    - 4000 ... 572
    - 74ABT ... 569
    - 74AHC ... 569
    - 74ALVC ... 569
    - 74F ... 572
    - 74HC/HCT/HCU ... 569-571
    - 74LV/LVC/LVCH/LVCU ... 571-572
    - 74LVT ... 572
  - I/O Expanders ... 572-573
  - Logic Translation ... 573
  - Memory ... 573
  - Memory Interface ... 573
  - Power Control/Management ... 573
  - Power Supply Products ... 573
  - RF ICs ... 394, 396, 574
  - Real Time Clocks ... 574
  - Signal Controllers ... 574
  - Specialized ... 574
  - Temperature Sensors ... 574
  - Timers ... 574
- Microcontrollers ... 496-497
- MOSFETs ... 907
- Thyristors ... 910
- Transistors ... 395, 905-906
- Triacs ... 910

Phoenix Contact
- Connectors
  - D-Sub, Industrial ... 247
  - Modular Jacks, Industrial ... 247
- Filter Surge Protection ... 1839
- Power Supplies ... 1839
- Terminal Blocks ... 242-248
  - Accessories ... 242-243
  - DIN Rail ... 242-243

Phoenix Passive Components
- Resistors
  - Metal Film ... 1385-1388
  - Power Metal Film ... 1387
  - Wirewound ... 1388, 1406

Pomona Electronics
- Adapters
  - Kits ... 1760-1761
  - RF ... 1760
- Cable Assemblies ... 1761
- Test Equipment
  - Accessories ... 1762
  - Banana Plugs/Jacks ... 1762
  - Patch Cords ... 1761
  - Probes ... 1760
  - Test Boxes ... 1762
  - Test Leads ... 1760-1761

Pontiac Coil, Inc.
- Solenoids ... 874

Portescap Danaher Motion (Specialty Motors)
- Stepper Motors ... 874

Potter & Brumfield/Tyco Electronics
- (see Tyco Electronics/P&B)

Power Integrations
- Integrated Power Switching Controller
  - Design Kits ... 742-743

Power-One
- DC-DC Converters ... 1831-1835
  - Programmable ... 1835
- Filter Modules ... 1836
- Power Supplies
  - Linear ... 1835-1836
  - Switching ... 1837-1838

PowerStor (Div. of Cooper Bussmann)
- Aerogel Supercapacitors ... 1183
  - Kits ... 1183

Power Trends (see Texas Instruments/Plug-In Power Solutions)

PRD Plastics
- Bezels ... 1923

Precision Electronic Components Ltd.
- Potentiometers
  - Carbon ... 1457
  - Digital Readout Dial ... 1457
  - Ten-Turn Wirewound ... 1457

Pulsar
- PC Board Prototyping Products ... 1736

Pulse
- Excelsus® DSL (CPE) Filters ... 229
- Inductors
  - Chip ... 1103
  - Drum Core ... 1104
  - Power ... 1103-1106
  - Toroidal ... 1104-1106
    - High Frequency ... 1105-1106
- Modular Jacks, Filtered ... 229
- Transformers
  - Balun ... 1138
  - LAN Discrete Modules ... 1107
  - Telecommunication ... 1106-1107

Q

Quadravox, Inc.
- Programmer, Voice Record/Playback ... 443
- Programming Adapters ... 443
- Prototyping Tools ... 443
- Sound Modules ... digikey.com

Qualtek
- AC Receptacles ... 1159
- Cords
  - AC Line ... 1158
  - Power ... 1158
- Fans, Accessories ... 1799
- Heat Shrink Tubing ... 1682
- Power Entry Modules ... 1159

Quantum Research Group
- Sensors ... digikey.com
  - Evaluation Boards ... 1898
  - Fluid Level ... 1898
  - Proximity ... 1898
  - Touch ... 1898

Quarton, Inc.
- Laser Diode Modules ... 1933
- Laser Line Generator ... 1933

R

Radial Magnet, Inc.
- Magnets 1625

Raychem Cable Protection/Tyco Electronics (see Tyco Electronics/ Raychem Cable Protection)

Raychem Circuit Protection/Tyco Electronics (see Tyco Electronics/ Raychem Circuit Protection)

Rayming Corporation
- RF Transmitter/Receiver Boards 849

Red Lion Controls
- Counters/Timers 1921-1922
- Panel Meters 1922

Renesas Technology America
- Development Tools
  - Accessory Kits 532
  - Adapters 532
  - Development Kits 532
  - Emulators 532
  - Programmers 532
- Diodes, Schottky .... digikey.com
- Microcontrollers 529-532
- MOSFETS .... digikey.com
- SRAM .... digikey.com
- Thyristors .... digikey.com

RF Solutions
- PIC Emulators 469
  - Adapters 469
  - Daughter Boards 469
- RF Transmitters/Receivers 397

Richco, Inc.
- Bushing Insulators, Nylon 1714
- Bushings, Strain Relief 1713
- Cable Clamps 1713
- Cable Ties 1712, 1714
  - Cable Tie Gun 1714
- Fuses, Covers 1511
- Grommets 1712
- Spacers, LED 1712
- Ties .... digikey.com
  - Beaded 1714
  - Cable 1712-1714
  - Hanking 1714
  - Holders 1712
  - Wire 1714
  - Wire Saddles 1713

Ripley Tool/Miller
- Wire Stripper 1668

ROHM
- Capacitors
  - Ceramic Chip 1375-1377
  - Tantalum 1279
- Diodes
  - Schottky 1002
  - Switching 1000-1001
  - Zener 1001
- Integrated Circuits
  - AC-DC Converters 833
  - Comparators 832
  - DC-DC Converters 833
  - Op Amps 832
  - Voltage Regulators 832-833
- LEDs 1972-1973
- Memory ICs, Serial EEPROM 833
- MOSFETs 868, 955
- Resistors
  - Arrays 1425
  - Thick Film 1392-1393
- Sensors, Optical 1878
- Transistors 956-957
- TVS, ESD 1482

Roman-Jones, Inc.
- SPROM Programmers 411

S

Schaevitz Sensors (see MSI/Schaevitz)

Schurter Inc.
- Power Entry Connectors 1160
- Power Entry Module 1160
- Switches .... digikey.com

Semtech
- ICs/Semiconductors
  - Battery Chargers 822
  - Charge Pumps 821
  - ESD/EMI Protection 821
  - Hot Swap Controllers 822
  - References 822
  - Specialized 822
  - Surge Protection 821
  - Switching Regulators 821
  - Voltage Regulators 822
- RF Products
  - A/D Converters 398
  - Codec 398
  - Development Tools 398
  - GPS Modules 398
  - RF Modules 397
  - Transceivers 397-398

Sensory, Inc.
- Voice Recognition Development Kit 443

Senstronics, Ltd.
- Sensors, Pressure 1895

SenSym ICT (see Honeywell Sensing)

Serpac Electronic Enclosures
- Enclosures
  - Computer Cases .... digikey.com
  - Plastic 1697-1699
  - Plastic E.M.I. 1698-1699
  - Watertight/Airtight 1697-1699

Sharp Microelectronics
- Cable Wire .... digikey.com
- Fiber Optic
  - Cable 233
  - Receivers 233
  - Transmitters 233
- ICs/Semiconductors
  - Chopper Regulators 829
  - LDO Voltage Regulators 828-829
  - Memory 862
  - TFT Displays, Small 862
- Laser Diodes 1933
- LCD Displays, TFT 1912
- LEDs 1969
- Microcontrollers 443
- Optoelectronics
  - IR Emitters 1868
  - IrDA Transceiver Modules 1932
  - Light Detectors 1868
  - Photocouplers 1858-1860
  - Photo Diodes 1868
  - Photointerrupters 1867
  - Photo Transistors 1868
  - Remote Control Receivers 1932
- Relays, Solid State 1659
- Sensors
  - Distance Measuring 1868
  - Dust 1868
  - Tilt 1867

Signal Transformer
- Chassis Mount 1812
- International 1810, 1812
- PC Mount 1810-1812
- Power 1810

Silicon Laboratories, Inc.
- Development Kits 398, 441-442
  - ISOmodem® 442
  - ZigBee™ 398
- Microcontrollers, C8051 437-440
- Prototyping Boards .... digikey.com
- RF Synthesizers 399
- Transceivers 441
- USB to UART Bridge 441

Singatron Enterprises
- Connectors, Circular DIN and Mini DIN 308

Sirenza Microdevices, Inc.
- Amplifiers 399-400
- VCOs 400

Soberton
- Audio Transducers 1691

SofTec Microsystems SRL
- Evaluation Kits 505
- Programmers .... digikey.com
- Programming/Prototyping Adapters .... digikey.com
- Software Libraries .... digikey.com

Sprague-Goodman
- Capacitors, Trimmer 1383-1384
- Tuning Tools 1383-1384

SRC Devices
- GDT Surge Arresters 1477
- Relays, Reed 1626
- Sensors
  - Liquid Level .... digikey.com
  - Magnetic .... digikey.com
- Switches, Reed 1626

Staco Energy Products Co.
- Variable Transformer, Toroidal 1754

Stanley Electric Sales of America
- LEDs
  - 7-Segment Displays 1955
  - Alphanumeric .... digikey.com
  - Bi-Color 1956-1957
  - Light Bars 1955
  - Surface Mount 1956-1957

Steinel America
- Heat Guns 1678

Steward
- CAN BUS Chokes 1147
- Coils/Inductors
  - Common Mode Choke 1147-1148
  - Common Mode Choke Arrays 1147
  - High Current 1147-1148
  - Monolithic 1147
  - Power Inductor 1147
- EMI Suppression
  - Filters 1146-1151
  - Shields 1149
- Ferrites
  - Bead Cores 1148-1151
  - Broad Band Cores 1149-1151
  - Chip Arrays 1147
  - Chip Beads 1146-1147
  - Clamp-On 1149, 1151
  - Cylinder 1150-1151
  - Differential Mode 1146
  - EMI Discs and Plates 1149
  - Flat Core 1149
  - High Current 1146
  - High Frequency Cores 1151
    - Kits 1146, 1149-1151
  - Low Frequency Cores 1150
  - Ribbon Cable 1149
  - Ring Cores 1150-1151
  - Split Core 1149, 1151
- Kits
  - Chokes 1148
  - EMI Components 1148-1151
  - Ferrite Cable Cores 1149-1151
  - Ferrite Chip Beads 1146
  - Ferrite Cores 1150-1151

Stewart Connector Systems
- CAT5e and CAT6 Jumpers 228
- Connectors, Modular 227
- Tools, Crimp 227

STMicroelectronics
- Alternistors 1021
- Diacs 1021, 1496
- Diodes 996-999
- Evaluation Boards 504-505, 724-725
- Integrated Circuits
  - Audio Amps 730-731
  - Battery Management 726, 734
  - Clock Driver 729
  - Comparators 726-727, 731-733
  - DC-DC Converters 726-727
  - Digital Logic
    - 74AC/ACT 719
    - 74ALV 719
    - 74HC/HCT/HCU 719-721
    - 74L 721
    - 74V 721-722
    - HCF 724
  - Interface 723-732
  - Op Amps 725-727, 730-733
  - Power Management 742
  - PWM (Pulse Width Modulator) 727, 733-734
  - Reset Supervisors 729, 731-732, 734-735
  - Switching Regulators 725, 734
  - Temperature Sensors 727
  - Timers 727, 732
  - Transceivers/Receivers 728-729
  - Voltage Detectors 729
  - Voltage References 731-733
  - Voltage Regulators 722, 725-727, 734-737
  - Voltage Reset 737-738
- Kits, Semiconductor 1772
- Memory Cards 740
- Memory ICs
  - EEPROM 738-739
  - EPROM 738
  - Flash 739-740
  - NVRAM 740
  - SRAM 740
- Microcontrollers 503-504
- MOSFETs 940-942
- Programmers 504
- RFID Evaluation Kits 400
- SCRs 1019-1020
- Transistors 861-862
- Triacs 1020-1021
- TVS 1491-1492

Storm Interface
- Cable Assemblies .... digikey.com
- Encoder 1552
- Keyboards 1552
- Keypads 1552-1553
- Trackball 1552

Sullins Electronics Corp.
- Connectors
  - 1mm 343-345
  - CompactPCI® 350
  - Edgeboard 343-345
  - Hard Metric 350
  - Shorting Jumpers (2.54mm) 116-117
- Headers
  - 2mm 107-110
  - 2.54mm 112-117
- Shunts 109-110

Sumida Corporation
- Chokes, Common Mode 1077-1078
- Inductors, Power 1074-1077
- Switches, Reed .... digikey.com

Sunbrite
- LEDs 1944-1946
  - Based 1945
  - Bi-Color 1944
  - Clusters 1944
  - Incandescent Replacement 1945
  - LuxLEDs™ 1946
  - PolyLEDs™ 1944

Sunon
- Blowers 1793
- Fans 1792-1793
  - Chip Cooler 1793

Supco (Sealed Unit Parts Co.)
- Megohmmeter .... digikey.com
- Tester, Capacitor .... digikey.com

Susumu Co., Ltd.
- Attenuators 1388
- Capacitors, Thin Film Chip 1379
- Choke Coils 1103
- Delay Lines 1102
- Inductors, Thin Film 1095
- Power Dividers 1389
- Resistors
  - Metal Film 1389
    - Kits 1389, 1771
  - Thin Film Chip 1389-1391
    - Kits 1389-1391, 1771

Swanstrom Tools
- Cutters and Pliers 1740

Switchcraft, Inc.
- Connectors
  - Audio 336
  - Phone Jacks/Plugs 336-337
  - Power 337
  - Weathertight 289

Switchcraft, Inc./Conxall
(see Conxall/Switchcraft, Inc.)

T

Tadiran Batteries
- Batteries, Lithium 1779

Taiyo Yuden
- Bluetooth™ Modules 400
- Capacitors, Multilayer Chip 1360-1364
- Varistors 1479

Tamura
- Connectors, Modular Jack .... digikey.com
- Inductors
  - Common Mode Choke .... digikey.com
  - Power .... digikey.com

- Sensors, Current 1889
- Transformers
  - Current Sense 1889
  - Encapsulated 1803
  - Modem/Telecom 1802
  - Power 1800-1801
  - Telephone Coupling 1802
  - Wall Mount 1803

TDK Corporation
- Bluetooth Serial Modem
  - Adapters digikey.com
  - PC Cord digikey.com
- Capacitors
  - Ceramic Disc 1371
  - Multilayer Ceramic Arrays 1369-1370
  - Multilayer Ceramic Chip 1365-1370
- DC-DC Converters
  - Dual Output 1826
  - Single Output 1826
- Ferrites
  - Bead Cores 1141
  - Chip digikey.com
  - Cylinder digikey.com
  - Flexible Ferrite Material 1141
- Filters 1141-1143
  - Line digikey.com
- Inductors/Coils 1115-1118
  - Chip, Shielded 1117-1118
  - Common Mode Choke 1142-1143
  - Multilayer digikey.com
  - Power 1116-1118
- Inverters, CCFL 1916
- Optoelectronics
  - Photo Diodes 1872
  - Photo IC 1872
- Resonators, Ceramic 1072
- Sensors, Humidity 1896
- Thermistors 1902
- Transducers, Audio 1688
- Transformers
  - Balun 1138
  - Configurable 1118
- Varistors 1479

Teccor Electronics
- Alternistors 1012
- Diacs 1014
  - Bilateral Trigger 1014
- Fuses, Telecommunication 1498
- Quadracs 1016
- Rectifiers 1014
- SCRs 1014-1016
- Sidacs 1014
- Sidactors 1497-1498
- Thyristors 1496
- Triacs 1012-1014

Techcon Systems (Division of OK International)
- Fluid Dispensing System 1751

TechTools
- Emulator, ClearView 469
- Emulator, EPROM/PIC 469
- Logic Analyzer 469
- Programmer, PIC 469
- QuickWriter 469

Telcom Semiconductor, Inc.
- (see Microchip Technology)

Texas Instruments
- Amplifiers 574-596
- Audio Volume Control 596
- BUS Solutions
  - Clock Drivers 596-597
  - IEEE1394 597
  - PCI 597
  - PECL 597
- CCD 598
- Comparators
  - General Purpose 598
  - High Speed 598
  - Low Power 598-599
  - Low Voltage 599
- Data Communications
  - Audio Codec 599
  - Central Office Codec 599
  - IrDA 600
  - Ring Controllers 600
  - SONET Transceivers 600
  - UARTs 600
  - USB 600
  - USB Transient Suppression 600
  - Video Decoders/Encoders 600
- Data Conversion
  - A/D Converters 600-606
    - Audio 606
    - DSP-Compatible 606
  - Analog Control Circuit 600
  - D/A Converters 606-609
    - Audio 606, 609-610
  - Voltage-to-Current Converter 610
  - Voltage-to-Frequency Converters 610
- Data Transmission
  - 4-20mA Transmitters/Receivers 610
  - ADSL Drivers 610
  - Ethernet 610-611
  - LCD 611
  - LV 611
  - LVCP 611
  - LVDM 611
  - LVDS 611-612
  - LVDT 612
  - LVP 612
  - RS232 614-616
  - RS422/RS423/RS485 612-614
  - SCSI 616
  - Switches 616-617
- Development Tools and Kits
  - Demo Board digikey.com
  - Emulators 498
  - Evaluation Kits 498, 502
  - Programmers 498
- Digital Logic
  - 4000 Family 617-619
  - ABT/ABTE/ABTH/ABTR 619-622
  - AC/ACT/AHC/AHCT/AHCU 622-629
  - ALB 630
  - ALS 630-631
  - ALVC/ALVCH 631-634
  - ALVTH 634
  - AS 634
  - AUC/AUCH/AUCU 634-637
  - AUP 637-638
  - AVC 638-639
  - BCT 639
  - Bus Switch 640-645
  - F 644-645
  - FB (Future Bus) 645
  - FCT 645
  - GTL/GTLP/GTLPH 645-646
  - HC/HCT/HCU 646-652
  - HSTL 652
  - LS 652-653
  - LV/LVC 653-663
  - LVT/LVTH/LVTZ 662-666
  - LVU 666
  - Microgate 629-630
  - MLVD 666
  - S 666
  - SST 666-667
  - TTL 667
  - VMEH 667
- Digital Radio 667
- Digital Signal Processors 499-502
- FIFO Memory 667-668
- Filters 668
- Integrators 668
- I/O Expanders 668
- Linear Peripheral Drivers 668-669
- Microcontrollers 498-499
- Multiplexers, Analog 669
- Optical Sensors 669
- Power Control/Management Products
  - CCFL Drivers 669
  - Hot Plug 669
  - Hot-Swap 669
  - Peripheral 669-670
  - Power + Array 670
  - Power + Logic 670
- Power Supply Products
  - Audio Differential Line Drivers 670
  - Battery Management 670-672
  - Buck Regulators 672-673
  - DC-DC Converters 673-677
  - Isolators 677
  - MOSFET/MOSFET Drivers 680-681
  - Power Distribution Switches 681-683
  - PWM Controllers 683-688
  - Schottky Diode Arrays 688
  - Supervisory Circuit Drivers 677-680
  - Voltage References 688
  - Voltage Regulators 689-701
- Precision Ground Reference 701
- Programmable Gate Arrays 701
- Real Time Clocks 701
- RF Products 400
- Signal Controllers
  - Audio Processors/Codec 701-702
- Specialized ICs 670
- Temperature Sensors 702
- Timers 702

Texas Instruments/Plug-In Power Solutions
- Integrated Circuits
  - DC-DC Converters 1813-1816
  - Switching Regulators 1813-1816

TI-RFid Systems
- Antennas 402
- RFid
  - Evaluation Kits 404
  - Modules 402-403
  - Readers 402-403
  - Transponders 401

Toko
- Antenna, GPS Patch/Element 864
- Coils 1122-1123
  - Variable digikey.com
- Diodes digikey.com
- Filters 864, 1072, 1140
  - Ceramic 1072
  - Chip digikey.com
  - Common Mode digikey.com
  - Dielectric 864
  - Helical 1140
- Inductors 1120-1123
  - Chip 1120
  - Fixed 1120-1123
- Integrated Circuits
  - DC-DC Converters digikey.com
  - Op Amp digikey.com
  - Video Line Driver digikey.com
  - Voltage Regulator 864
- Power Supplies, Switching 1825
- Resonators, Ceramic 1072
- Transformers, Balun 1138

Toshiba
- Diodes, Zener 975
- Development Tools
  - Evaluation and Starter Kits 494
  - RF 404
- Fiber Optic
  - Transmitting/Receiving Modules 233
- IC Drivers, Darlington Sink 831-832
- Integrated Circuits 752-754, 836-837
  - Logic 752-755
- Memory ICs digikey.com
  - Flash 850
  - Floppy Disk Cards 866
  - SRAM 850
- Microcontrollers, Flash 494
- MOSFETs 939
- Optoisolators 1854-1855
- Photovoltaic Coupler 1855
- Rectifiers
  - Schottky 938
  - Switching 938
- RF Transceivers/Receivers 404
- Sensors, Illumination 1868
- Solid State Relays 1659
- Transistors 938

TPI (Test Products International)
- BNC Cables 326
- Coax Adapter Connector Kit 326
- Detectors
  - CO digikey.com
  - Combustible Gas Leak digikey.com
  - Refrigeration Leak digikey.com
- DVI/HDMI Cables 326
- F (Television) Cables 326
- Manometers, Digital digikey.com
- Multimeters 1758-1759
- Oscilloscopes 1758
  - Probes 1758
  - Software 1758
- Test Clips 1758
- Test Leads 1758-1759
- Thermocouple Probes 1759
- Thermometers/Temperature
  - Testers 1759

TransERA Electronics, Inc.
- Transformers
  - Encapsulated 1804
  - Power 1804

Triad Magnetics
- AC/DC Power Supplies 1820
- Inductors
  - High Frequency 1808-1809
  - Rod Core 1808
  - Switchmode 1808-1809
  - Toroidal 1808
- Transformers 1807-1809, 1889
  - Audio 1809
  - Control 1807
  - Current Sensing 1889
  - Power 1807-1808
  - Switchmode 1809

Tripp Lite
- Battery Pack digikey.com
- Computer, KVM Switches 1768
- Hospital Grade Products 1768
- Isolation Transformers 1768
- Line Conditioners 1768
- Power Inverters 1769
- Power Strips 1768-1769
- Power Supplies, DC Regulated 1769
- Surge Suppressors 1768-1769
- UPS Systems 1768

TT Electronics/Optek Technology
- LEDs
  - High Brightness 1974-1975
  - InGaN 1975
  - RGB (Red/Green/Blue) 1975
  - Surface Mount 1975
- Optoisolators 1851
- Photodiodes 232, 1877
- Sensors
  - Fluid 1876
  - Hall Effect 1879
  - Optical 1876

Twin Industries
- Extender Cards 1733
- Prototyping Boards 1733
- SMT Adapter Boards 1733
- Solderless Breadboards 1733

Tyco Electronics/Alcoswitch
- Switches
  - Accessories 1549, 1559
  - DIP 1614
  - Keylock 1593
  - Pushbutton 1549
  - Rocker 1550
  - Rotary 1614
  - Tact 1550
  - Toggle 1559

Tyco Electronics/AMP
- Adapters
  - Modular 224
  - RF 322
- Cable
  - Fiber Optic 230
  - Flat Flex 53-55
  - Ribbon digikey.com
- Cable Assemblies 22-25, 53-55
- Coax Stripper 1668
- Connectors/Contacts
  - .050" (1.27mm) 185-188
  - 1mm 193
  - 2mm Ribbon 111
  - 2.54mm 169-172
  - 4.2mm 151
  - Accessories 190-192, 305
  - Backshells, D-Sub 186, 201
  - BNC 320-324
    - Accessories 322
    - Adapters 322
    - Crimp 319-321, 323-324
    - Decoupled 324
    - Field Serviceable 321
    - Jack 321-322, 324
    - Terminal Plugs 324
    - Twist-On 322
  - Card Edge 193, 345
  - Champ® 185, 190-192
  - Circular 298-302, 305-306
    - Accessories 298, 301, 304-306
    - Audio/Instrument 306
    - Coaxial 305
    - DIN 305
    - MIL-C-5015 306
    - Sealed 300-301
  - Crimp Terminals 265-279, 303-305
  - D-Sub 194-203
  - Dynamic 178-182
  - Eurocard 348
  - Fastons 269-275
  - Fiber Optic 230-232
  - Flexi-Block 249
  - Hardware 191-192
  - Hoods, D-Sub 201-202
  - IDC 22-25, 128-130, 133-135
  - Industrial Ethernet 224
  - Interconnect Systems 178-180
  - LAN 224

  - Mate-N-Lok® 153-165
  - Memory Card 355
  - Metrimate 152
  - Mictor 348
  - Miniature Rectangle (MR) 167
  - Modular 221-224
  - M-Series 183-184
  - MT (.100") 169-170
  - MTA (.100" and .156") 128-137
  - MTE (.100") 172, 176
  - Parallel Interface 190-192
  - Power 137
  - Rectangular DIN 347-348
  - Retention Modules 193
  - RF 319-326
    - Accessories 322
    - Adapters 322
    - BNC 320-324
    - Miniature Threaded 325
    - MMCX 318
    - N Type 325
    - SHV 325
    - SMA/SMB 319
    - TNC 325
    - Tools, Crimp 326
    - UHF 325
  - RITS 178
  - SCSI 185-186
  - Sealed 300-301
  - Softshell (.062" and .093") 165-166
  - Switch 1602
  - Twin Beam digikey.com
  - USB 224
  - Z-pack, 2mm 349
- Fiber Optic
  - Adapters 231
  - Attenuators 231
  - Cable Assemblies 232
  - Connectors 231
  - Switches 231
  - Tools 230-231
- Headers 31-33, 128, 131-133, 136-137, 173-175
  - Protected 31-33
- IC Sockets
  - DIP 360
  - Miniature Spring 361
  - PLCC digikey.com
  - PQFP 360
  - SIP 360
  - Test 360
- Labels, Terminal Blocks digikey.com
- Modular
  - Adapters 224
  - Connectors 222-224
  - Crimp Tools 223
  - Jacks, IBM Equivalent 224
- Ribbon Cable digikey.com
- Shunts 137
- Sockets
  - Assemblies, Mod. II and IV 177
  - IDC Connectors 128-136
  - Miniature Spring 361
  - PLCC digikey.com
- Terminal Blocks 249
- Terminals - Splices 263-279
- Terminators, SCSI 198
- Tools
  - Crimp 132-133, 137, 151-152, 154, 156-158, 161, 163, 165-167, 170-172, 181-182, 184, 190, 196-198, 200, 223, 264-266, 268-269, 275-278, 299, 305-306, 318-319, 326
  - Fiber Optic 231
  - Insertion/Extraction 152, 154, 157, 161, 163, 165-167, 171, 182, 184, 190, 196-198, 299, 305
  - Modular Crimp 223
  - PLCC Extractors digikey.com
- Tubing, Corrugated 302

Tyco Electronics/CoEv Magnetics
- Inductors, Drum Core 1083-1084

Tyco Electronics/Corcom
- Modular Jacks, Filtered 228
- Power Entry Modules 1161-1162
- RF Line Filters 1162-1163

Tyco Electronics/P&B
- Circuit Breakers 1525-1527
- Relays
  - I/O Modules 1653
  - Mechanical 1646-1651
  - Safety 1653
  - Solid State 1653
- Timers 1652

Tyco Electronics/Power Systems
- Converters DC-DC
  - Dual Output digikey.com
  - Single Output 1817
  - Triple Output digikey.com
- DC Filter Module digikey.com

Tyco Electronics/Raychem Cable Protection
- Heat Shrink
  - Kits 1681
  - Terminals and Splices 1680
  - Tubing 1680-1681

Tyco Electronics/Raychem Circuit Protection
- Fuses, SMD 1501
- MOVs 1480
- Power Distribution Switches 1500
- Resettable Devices 1499-1502
- Surge Protectors, Sibar Thyristor 1502
- Varistors, Metal Oxide 1480

U

United Chemi-Con
- Capacitors, Aluminum Electrolytic 1229-1251

U.S. - Lasers, Inc.
- Laser Diode Module
  - Adjustable Focus 1933
  - Housing Kit 1933
  - Infrared Red 1933
  - Power Supply 1933
  - Visible Red 1933

US Relays & Technology, Inc.
- Reed Relays 1623

U.S. Sensor
- Thermistors 1901
  - NTC 1901
  - RTDs 1901

V

Varitronix
- 7-Segment LCD Displays 1918
- Character LCD Modules 1918

Vector Electronics & Technology, Inc.
- Backplanes 1732
- Card Extenders 1731
- Card Racks 1732
- Connectors, Edgeboard 1732
- PC Board Prototyping 1730-1732, 1736
  - Accessories 1731
- Slit-N-Wrap Tool and Wires 1738

V-Infinity (Division of CUI, Inc.)
- AC-DC Converters 1848
- DC-DC Converters 1847-1848
- Power Supplies, Switching 1846-1848

Vishay
- BC Components
  - Capacitors
    - Aluminum Electrolytic 1165-1168
    - Axial 1165-1168, 1303
    - Ceramic 1303, 1312, 1315
    - Film digikey.com
    - Interference Suppressors 1312
    - Metallized Polyester 1288
    - Metallized Polypropylene 1300-1302
    - Multilayer Ceramic Chip 1378
    - Trimmer 1384
  - Potentiometers, Trimmer 1436-1438
  - Resistors, Thin Film Chip digikey.com
  - Sensors, Humidity 1896
  - Thermistors 1901-1902, 1906
  - Varistors 1478
- Dale/Vishay
  - Resistors
    - Metal Film 1418-1419
    - Wirewound 1418-1421
- General Semiconductor
  - Diodes/Rectifiers 944
    - Bridge 944
    - Schottky 944
  - TVS digikey.com

Volgen (Division of Kaga Electronics USA)
- Power Supplies
  - Switching 1842-1843
  - Universal Input 1842-1843

VTI Technologies
- Sensors
  - Accelerometers 1899
  - Inclinometers 1899

W

Waka/Hoei America
- Cable Assemblies 326

Wakefield Engineering
- Heat Sinks 870
  - Grease 870
  - Pads 870

Waldom/Cinch (see Cinch Connectors)

Waldom/Molex (see Molex)

Weidmuller
- DC-DC Converters 1839
- Power Supplies 1839
- Terminal Blocks 240, 234-238

Weller
- Air Station 1750
  - Nozzles 1750
- Calibration Unit 1749
- Dispensers, Solvent 1750
- Solder Irons 1749-1750
  - Replacement Tips 1749-1750
- Solder Stations 1749
- Vacuum Pickup Tool 1749
- Vise, Circuit Board 1749

Wickmann
- Fuses
  - Axial 1521
  - Kits 1521-1523, 1770
  - Metric 1522-1523
  - Picofuse 1521
  - Surface Mount 1521
  - Telecom 1521
- Holders 1521-1523
  - Panel Mount 1522-1523
  - PC Mount 1521-1523
  - Surface Mount 1522

Wiha
- Hand Tools
  - Bit Holders digikey.com
  - Bits and Bit Sets 1741
  - Chip Lifter 1741
  - Cutters 1741
  - Driver Sets 1741
  - Field Service Kits 1741
  - Hammers digikey.com
  - Inspection Mirrors digikey.com
  - L-Keys digikey.com
  - Pliers 1741
  - Probes digikey.com
  - Screwdrivers 1741
  - Security Bits 1741
  - Socket Sets digikey.com
  - T-Handle digikey.com
  - Tweezers 1741
  - Wire Stripper digikey.com

Winbond Electronics Corp. America
- Integrated Circuits
  - Codec 444
  - I/O Controllers 862
  - Potentiometers, Digital 862
- Text-to-Speech 444
- Voice Record/Playback ICs 444

Wintec Industries
- Memory Cards, Compact Flash 865
- Memory Modules 865

Wiss
- Utility Knife 1738

World Magnetics
- Sensors, Pressure Switches 1896

X

Xcelite
- Hand Tools
  - Pliers/Cutters 1739
  - Screwdrivers 1739

Xeltek
- Programmers, Universal 405-406

Xicor (see Intersil)

Xilinx
- CPLDs 409-410
- Development and Starter Kits 409
- FPGAs 408-409, 411
- Programming cable 409
- Serial PROMs 411

Y

Yageo
- Capacitors, Multilayer Ceramic 1372-1374
- Resistors
  - Carbon Film 1401
  - Kits 1394-1395, 1401-1402, 1771-1772
  - Metal Film 1401-1402
  - Metal Oxide 1402
  - Thick Film 1394-1395
  - Thin Film digikey.com
  - Wirewound 1401
  - Zerohm Jumper Wires 1401

Z

Zetex
- Brushless Fan Motor Controllers 890-891
- Diodes 882-883
- Hyperabrupt Varactor Diodes 882
- ICs/Semiconductors
  - Current Mirror/Monitors 890
  - DC-DC Converters 891
  - Lighting 890
  - Specialized 890-891
  - Timer 891
  - Variable Q Filter 890
- MOSFET/MOSFET Drivers 884-886
- RF Amplifiers 404
- Transistors 876-881
  - "H" Bridge 881
- Voltage Reference 888-889
- Voltage Regulators 887-888
- Voltage Supply Monitors 886, 889

Zilog
- Controllers 567
- Counters/Timers 566
  - Modem digikey.com
  - Peripheral 567
  - Serial Communication 567
- Development Tools 488-490
  - Accessory Kits 488
  - Adapters 488-489
  - Development Kits 488
  - Emulators 488
  - IR 490
  - Modules 488
  - Programmers 488
  - Thermostat 490
- Microcontrollers 482-490
  - Acclaim!™ 488
  - Crimzon™ 482
  - Encore!® 484-485
  - Encore!® Motor Control 488
  - Encore! XP® 486-487
  - Flash 484-488
  - GP™ 482-483
- Microprocessors 566-567
- Optoelectronics 1932
  - IrDA Transceiver Modules 1932
- Transceivers digikey.com
- Web Server Development Kit 490

Z-World/Rabbit Semiconductor
- Development Kits and Tools 433-436
  - Reference Books digikey.com
  - Software digikey.com
  - TCP/IP 434-435
  - Tech Support digikey.com
- Microprocessors 434-436
- Programmable Circuits digikey.com

MAIL/FAX ORDER FORM

#T063

Digi-Key CORPORATION ®

701 Brooks Ave. South
PO Box 677
Thief River Falls, MN 56701-0677

	No. of Pages:
To:	**From:**
Co.: *Digi-Key Corporation*	**Co.:**
Dept.: *Order Department*	**Phone No:**
Fax No: *218-681-3380*	**Fax No:**

(Please Check One)

Payment Method: ☐ Credit Card ☐ COD ☐ Check or MO ☐ Open Acct.

Card Number: ☐☐☐☐-☐☐☐☐-☐☐☐☐-☐☐☐☐

☐MC ☐VISA
☐AmEx ☐Discover

Expiration Date ☐☐ ☐☐
Mo. Yr.

Security Code *(See back of card.)* ☐☐☐☐

____
Credit Card Holder's Name (Please Print Clearly)

☐ Personal Order ☐ Company Order (Please Check One)

Ship to:

Customer Number ______________________

Customer Name ______________________

Company Name ______________________ **Phone (   )** ______________

Shipping Address ______________________ **Apartment/Suite** ______________

City ______________________ **State** __________ **Zip** __________

Bill to:

P.O. No. ______________________ **Account No.** ______________________

Company Name ______________________ **Phone (   )** ______________

Billing Address ______________________ **Apartment/Suite** ______________

City ______________________ **State** __________ **Zip** __________

Quantity		Digi-Key Part No.	Description (brief)	Price/Unit	Total Price
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

Ship Via: ______________

Are substitutions acceptable?
☐ Yes ☐ No

Are backorders acceptable?
☐ Yes ☐ No

Backordered for a period of ______ days.

Backorder shipping method: ______________

Confirmation required?
☐ Yes ☐ No

Confirm VIA: ☐ Phone ☐ FAX

HANDLING CHARGES

$0.00 - $24.99	**Add $5.00**
$25.00 and Up	**No Charge**
International Orders	**Additional $6.00**

We pay all shipping (our choice of method) and insurance to addresses in the USA and Canada when check or money order accompanies order. See "Ordering Information/Shipping Charges" for details on heavy/oversize items.

1. Total of all items . . . . $ __________
2. Orders less than $25.00 add $5.00 handling charge . . . $ __________
3. Sub Total. . . . . $ __________
4. Please remit any applicable taxes . . . . $ __________
5. International orders (excluding Canada) add $6.00. . . . . $ __________
6. Total enclosed . . . . $ __________
   (Total of all lines) (US Dollars)

More Product Available Online: www.digikey.com

Toll-Free: 1-800-344-4539 • Phone 218-681-6674 • Fax: 218-681-3380

Digi-Key Terms and Conditions

General Conditions of Order:

Do Not Use Products Sold by Digi-Key as Critical Components in Life Support Devices or Systems:

Products sold by Digi-Key are not authorized for use as critical components in life support devices or systems. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness. Any attempt to purchase any Digi-Key product for that purpose is null and void and Digi-Key accepts no liability whatsoever in contract, tort or otherwise whether or not resulting from our or our employees' negligence or failure to detect an improper purchase.

All orders, regardless of how they are placed, submitted through a Digi-Key Web site or through its printed catalog, are specifically subject to all the terms and conditions contained herein. No change, alteration, deletion or modification of any of these terms and conditions is permitted. No person is authorized to accept, confirm or vary these terms and conditions including all representations and warranties unless they have been posted on Digi-Key's Web site or in this catalogue. All terms are specifically and exclusively subject to interpretation under the *US Uniform Commercial Code* and all claims or disputes shall be interpreted according to Minnesota law and subject to jurisdiction in Minnesota state or federal courts at the exclusion of any other choice of law or choice of jurisdiction, including the *UN Convention on the International Sale of Goods (CISG)*.

Orders placed on forms deviating from these terms and conditions will be accepted on the basis that Digi-Key Terms and Conditions will prevail.

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Digi-Key offers its Technical Assistance and Design Support Services as a convenience to Digi-Key customers. Digi-Key Technical Assistance and Design Support Services personnel strive to provide useful information regarding Digi-Key products. DIGI-KEY DOES NOT GUARANTEE THAT ANY INFORMATION OR RECOMMENDATION PROVIDED IS ACCURATE, COMPLETE, OR CORRECT, AND DIGI-KEY SHALL HAVE NO RESPONSIBILITY OR LIABILITY WHATSOEVER IN CONNECTION WITH ANY INFORMATION OR RECOMMENDATION PROVIDED, OR THE CUSTOMER'S RELIANCE ON SUCH INFORMATION OR RECOMMENDATION. THE CUSTOMER IS SOLELY RESPONSIBLE FOR ANALYZING AND DETERMINING THE APPROPRIATENESS OF ANY INFORMATION OR RECOMMENDATION PROVIDED BY DIGI-KEY TECHNICAL ASSISTANCE AND DESIGN SUPPORT SERVICES PERSONNEL, AND ANY RELIANCE ON SUCH INFORMATION OR RECOMMENDATION IS AT THE CUSTOMER'S SOLE RISK AND DISCRETION. ACCORDINGLY, THE CUSTOMER SHALL RELEASE AND HOLD DIGI-KEY HARMLESS FROM AND AGAINST ANY AND ALL LOSS, LIABILITY, AND DAMAGE INCURRED BY THE CUSTOMER OR ANY THIRD PARTY AS A RESULT OF ANY INFORMATION OR RECOMMENDATION PROVIDED TO THE CUSTOMER OR THE CUSTOMER'S RELIANCE ON SUCH INFORMATION OR RECOMMENDATION.

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The foregoing remedy shall be subject to buyer's written notification of defect and return of the defective product within ninety (90) days of purchase. The foregoing remedy does not apply to products that have been subjected to misuse (including without limitation static discharge), neglect, accident or modification, or to products that have been soldered or altered during assembly, or are otherwise not capable of being tested.

IN NO EVENT SHALL DIGI-KEY BE LIABLE TO THE BUYER OR TO ANY THIRD PARTY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, PUNITIVE OR EXEMPLARY DAMAGES (INCLUDING WITHOUT LIMITATION LOST PROFITS, LOST SAVINGS, OR LOSS OF BUSINESS OPPORTUNITY) ARISING OUT OF OR RELATING TO ANY PRODUCT OR SERVICE PROVIDED OR TO BE PROVIDED BY DIGI-KEY, OR THE USE OR INABILITY TO USE THE SAME, EVEN IF DIGI-KEY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Infringement Disclaimer:

Notwithstanding section 2-312 of any applicable version of the Uniform Commercial Code or any other similar law, or any purchase order term, other contractual provision or the like from the buyer, Digi-Key: (i) expressly disclaims any and all warranties against third party claims for infringement or the like, and (ii) shall have no obligation of any kind to the buyer for claims brought by third parties against the buyer for infringement or the like arising out of or in any way related to product purchased by the buyer from Digi-Key.

How To Order

☐ *By Telephone: 800-344-4539 (US & Canada) or 218-681-6674*

Our friendly sales representatives are ready to serve you from 6:00pm Sunday through 6:00am Saturday Central Time. For most efficient service, please have ready a list of quantities and part numbers and, if paying by credit card, your MasterCard, VISA, American Express or Discover card.

Note: Calls may be recorded or monitored for quality and training purposes.

☐ *By Fax: 218-681-3380*

Digi-Key Fax lines can be accessed 24-hours a day, 7-days a week, 365-days a year. Depending on the shipping method; fax orders will be processed and shipped according to the "Orders entered by times" listed below under ***Shipment***. Orders received after these cutoff times will be processed and shipped the next business day. Please include your daytime telephone number and/or email address in case we have any questions about your order.

☐ *By Internet: www.digikey.com*

Order on-line 24-hours a day, 7 days a week, 365 days a year. Digi-Key's Top Rated Web site receives hundreds-of-thousands of orders each year. Internet orders entered after normal business hours are promptly processed and shipped the next business day.

☐ *By Mail: Simply Mail Your Order To:*

Digi-Key Corporation
701 Brooks Avenue South
PO Box 677
Thief River Falls MN 56701-0677

International customers please see "International Orders" below for additional information.

Ordering Information

Prices/Quantities:

Digi-Key makes every effort to present current and accurate pricing in its catalog and on its Web site. However, prices are subject to change without notice and quantities may be limited. All orders are subject to current pricing at time of acceptance by Digi-Key. Digi-Key country specific Web sites offer alternative currencies. No trade in other currencies will be accepted.

Shipment:

Digi-Key's warehouse is open and staffed Monday through Friday, 7:30am-9:00pm Central Time (subject to holidays). Orders are shipped only on these business days. Orders and correspondence received on Saturday and Sunday will be addressed/shipped on the following Monday and included in that day's business.

Digi-Key's cut-off times for Same-Day Shipment Monday-Friday are as follows:

- Orders entered by 6:00pm CT–All USPS Options (Express Mail delayed 1 day).
- Orders entered by 7:00pm CT–FedEx ground.
- Orders entered by 8:00pm CT–All UPS air and surface options; All FedEx air options.

Shipping Charges:

Shipping or freight charges and insurance will be paid by the customer*. All sales are made FOB point (as defined by the INCOTERMS 2000) in Thief River Falls, MN, USA. Shipping or freight charges from Digi-Key's warehouse in Thief River Falls, MN are prepaid and added to the invoice, billed collect or billed to a 3rd party.

* When a check or money order accompanies your order, Digi-Key pays all shipping and insurance (our choice for method of shipping) to all addresses in the USA and Canada, unless such charges exceed 10% on orders of $200 or less, or 5% on orders greater than $200. Digi-Key will notify you prior to shipment if these conditions exist.

Handling Charge:

- A $5.00 handling charge applies to all orders less than $25.00. This fee will be waived on orders of $25.00 or more.
- A $6.00 processing fee will be applied to all International orders, excluding Canada.

Sales Tax:

Sales tax is charged on shipments in most states that have a sales tax, unless we have your resale certificate. Fax your certificate and your customer number to 218-681-7931, Attn: Sales Tax.

Payment:

Digi-Key offers a number of convenient payment methods:

For United States customers we offer check, money order, MasterCard, VISA, American Express, Discover, and C.O.D. as well as open account credit to qualified institutions and businesses.

For Canadian customers we offer all of the above payment options except C.O.D.

For International customers see "International Orders" below.

To obtain a credit application for open account credit, contact any sales representative by calling 800-344-4539 (US & Canada) or 218-681-6674 or faxing your request to 218-681-3380. Or, you may go to www.digikey.com and click on "Contact Us", which will bring you to the "Digi-Key Communications" page. Then click on "Net 30 Credit Application" in the "Accounting" box. Please allow sufficient time for the credit approval process. To avoid delay on your initial order you may elect an alternative payment method.

Dishonored Check Policy:

If a check you give us for payment is dishonored for any reason by the bank or other institution on which it is drawn, you agree to pay us $20.00 as a service charge (if the check cannot be redeposited) pursuant to Minnesota Statutes § 332.50. In addition, you agree to pay any other reasonable charges imposed by any check verification company or collection agency that we may use for collection.

Out-Of-Stock:

On orders paid by check, money order or credit card, items not available for immediate shipment will be shipped as they become available. Items not available at the end of 30 days will be cancelled and refunded/credited in cases of prepayment. The number of backorder days may be extended beyond 30 days at customer's request. If a refund check is issued, the cancelled item can be re-entered without a handling charge if the check and cancellation notice are returned to us.

On orders billed to customers with open account credit, items not available for immediate shipment will be shipped and billed as they become available. Items not available at the end of 90 days will be cancelled. The number of backorder days may be extended beyond 90 days at customers request.

International Orders:

In addition to the United States and its territories, Digi-Key accepts International orders. All orders of International origin are exported from the US in accordance with the Export Administration Regulations. Diversion contrary to US Law is prohibited. An additional handling charge of $6.00 will be included for processing and invoicing. All duties and taxes will be the responsibility of the customer.

Payment options for International customers: MasterCard, VISA, American Express, Discover, cashier's check in US funds, as well as open account credit to qualified institutions and businesses. We cannot accept personal checks or certified personal checks. Money orders can result in significant delays. Use of Letters of Credit must be approved in advance by Digi-Key's Accounting Department.

To obtain a credit application for open account credit, contact any sales representative by calling 218-681-7979 or faxing your request to 218-681-3380. Or, you may go to www.digikey.com and click on "Contact Us", which will bring you to the "Digi-Key Communications" page. Then click on "Net 30 Credit Application" in the "Accounting" box. Please allow sufficient time for the credit approval process. To avoid delay on your initial order you may elect an alternative payment method.

Customer Service:

Voice: 800-858-3616 in (US & Canada) or 218-681-6674

Fax: 218-681-3380

Internet: www.digikey.com (click "Contact Us")

Mail: Digi-Key Corporation
Attn: Customer Service
PO Box 677
Thief River Falls MN 56701-0677

A friendly, competent staff of customer service representatives is available from 6:00pm Sunday through 6:00am Saturday Central Time to assist you. Please have your sales order or invoice number available when you call.

Freight Damage:

If you receive merchandise that has been damaged in transit, it is important to keep the shipping carton, packing material and parts intact. Please contact a Digi-Key Customer Service representative immediately to initiate a claim. See "Customer Service" above for contact information.

Return Policy:

Digi-Key accepts merchandise returns subject to the terms outlined below and will replace the product or refund your money at your option.
To facilitate processing of returned merchandise:

- Please contact a Customer Service Representative to obtain an RMA (Returned Merchandise Authorization) number prior to returning product. See "Customer Service" above for contact information.
- All returns should be made within 30 days of date of invoice and be accompanied by the original invoice number and a brief explanation of the reason for the return.
- Return freight charge must be prepaid. Sorry, C.O.D. returns cannot be accepted.
- Returned merchandise must be in original packaging and resalable condition.
- Parts returned due to customer error may be subject to a restocking charge. "Not-in Catalog Items" and parts specified as "Non-Cancelable/Non-Returnable" at time of quote or sale are not returnable.
- Defective merchandise may be returned within 90 days of the original invoice date and need not be in original packaging.

Duplicate Mailings:

If you receive more than one catalog with the same name and address, please return the labels to Digi-Key and pass the catalog along to a friend. Also, if you do not require multiple copies to the same company address, contact a sales representative to verify your mailing information. A forms based communications method for catalog issues (Receive, Remove, Change of Address) can be accessed at www.digikey.com by clicking "Contact Us", which brings you to the "Digi-Key Communications" page. Then click "Catalog Mailing List" and scroll to "Service Out Options" to note your preferences. Alternatively, you may mail, telephone or fax Digi-Key your request.

Environmental Packaging:

Based on our commitment to the environment and you, our valued customer, we are now using Geami, a 100% recyclable packaging product. Both the outer and the inner tissue can be put in your newspaper bin for recycling.

Privacy Policy:

Your privacy as a customer is very important to us. We want you to know how your customer information is used.

Once you make a purchase, request a catalog or other information from Digi-Key, your name, shipping/mailing address, telephone number, email address and fax number are included in our customer file.

This information is used to ensure a quick, efficient flow of products and services to you. This information may also be used for other purposes as outlined below.

Postal Addresses: Digi-Key may use your mailing address to send the Digi-Key catalog to keep you updated on our most current products and services.
Occasionally, Digi-Key may make the names and addresses of our customer list available to carefully screened companies that offer products and/or services that may be of interest to you.

Email Addresses: Email addresses may be used to communicate information of interest to you about Digi-Key. This includes Order Shipment/Tracking Information, Obsolete Part Bulletins, Service Change Information or other Digi-Key promotional emails.

Emails may be sent by Digi-Key or an authorized agent working for Digi-Key. All authorized agents operate with a confidentiality agreement. Information sent in this manner will always include "opt out" options.

Email addresses are never rented, sold or traded to third parties.

Opt Out: You may elect to opt out of any of the above uses of your customer information by completing the "Opt Out" form in our privacy statement on our Web site or by contacting us by telephone, fax or mail.

Other Uses Of Customer Information: Digi-Key is under contract to provide point of sale information to many of its product suppliers for market research and payment of commission to the supplier's agents.

If you have an open account with Digi-Key, credit and payment history will periodically be shared with credit reporting agencies.

Customer information is also used for marketing and market research for Digi-Key Corporation. Digi-Key or an authorized agent working for Digi-Key may complete these activities. All customer information is kept confidential.

Digi-Key will share customer information with government agencies if required by law.

Note: We reserve the right to make changes to our privacy policy at any time without prior notification.

ISO 9001:2000 Certified:

Digi-Key's operations from order entry through shipping have been fully ISO certified since March 17,1994 and are recertified on an annual basis. A copy of Digi-Key Corporation's ISO Certification is available at www.digikey.com or upon verbal or written request.

tyco
Electronics
AMP

D-Subminiature Connectors

RoHS Compliant

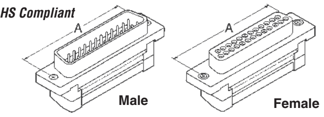

Material and Finish: • Plastic Shell: Housing, Cover and Cable Stabilizer – 94V-0 rated thermoplastic, black • Metal Shell: Front Shell – Steel, tin plated Housing, Cover & Cable Stabilizer – 94V-0 rated thermoplastic, black • Contacts: Phosphor bronze, duplex plated 30μ" gold on mating end, tin-lead on termination end, with entire contact nickel underplated • Threaded Inserts: Brass, unplated • Mounting Holes: Standard – .120" (3.05mm) Diameter

Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476

Certified by Canadian Standards Association., File No. LR 46568

No. of Contacts	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
Male D-Sub Connectors, Plastic Shell						
9	Gold	.984 (24.99)	AMS09G-ND	7.42	35.64	747321-4
Male D-Sub Connectors, Plastic Shell RoHS Compliant						
9	Gold	.984 (24.99)	AMS09B-ND	6.94	33.31	1658615-4
15	Gold	1.312 (33.32)	AMS15B-ND	8.08	38.78	1658615-3
25	Gold	1.852 (47.04)	AMS25B-ND	10.08	48.36	1658615-2
37	Gold	2.500 (63.50)	AMS37B-ND	13.78	66.16	1658615-1
Male D-Sub Connectors, Metal Shell, With Threaded Inserts						
9	Gold	.984 (24.99)	AML09K-ND	10.07	48.33	747043-4
15	Gold	1.312 (33.32)	AML15K-ND	11.29	54.19	747043-3
25	Gold	1.852 (47.04)	AML25K-ND	13.53	64.93	747043-2
Male D-Sub Connectors, Metal Shell, With Threaded Inserts - RoHS Compliant						
25	Gold	1.852 (47.04)	AML25B-ND	12.64	60.68	1658608-2
37	Gold	2.500 (63.50)	AML37B-ND	16.16	77.57	1658608-1
Female D-Sub Connectors, Plastic Shell RoHS Compliant						
9	Gold	.984 (24.99)	AFS09B-ND	6.94	32.91	1658614-4
15	Gold	1.312 (33.32)	AFS15B-ND	8.08	38.32	1658614-3
25	Gold	1.852 (47.04)	AFS25B-ND	10.08	47.79	1658614-2
37	Gold	2.500 (63.50)	AFS37B-ND	13.78	65.37	1658614-1
Female D-Sub Connectors, Metal Shell, With Threaded Inserts						
9	Gold	.984 (24.99)	AFL09K-ND	10.07	48.33	747052-4
37	Gold	2.500 (63.50)	AFL37K-ND	17.29	83.00	747052-1
Female D-Sub Connectors, Metal Shell, With Threaded Inserts - RoHS Compliant						
9	Gold	.984 (24.99)	AFL09B-ND	9.41	44.63	1658610-4
15	Gold	1.312 (33.32)	AFL15B-ND	10.55	50.04	1658610-3
25	Gold	1.852 (47.04)	AFL25B-ND	12.64	59.96	1658610-2
37	Gold	2.500 (63.50)	AFL37B-ND	16.16	76.64	1658610-1
Male D-Sub Connectors, Metal Shell RoHS Compliant						
9	Gold	.984 (24.99)	AMR09B-ND	7.51	36.05	1658613-4
15	Gold	1.312 (33.32)	AMR15B-ND	8.56	41.06	1658613-3
25	Gold	1.852 (47.04)	AMR25B-ND	10.65	51.10	1658613-2
37	Gold	2.500 (63.50)	AMR37B-ND	14.26	68.44	1658613-1
50	Gold	2.406 (61.11)	AMR50B-ND	24.99	119.95	1658607-1
Male D-Sub Connectors, Plastic Shell, With Threaded Inserts						
15	Gold	1.312 (33.32)	AMV15K-ND	10.78	51.75	747053-3
Male D-Sub Connectors, Plastic Shell, With Threaded Inserts - RoHS Compliant						
9	Gold	.984 (24.99)	AMV09B-ND	8.94	42.89	1658611-4
15	Gold	1.312 (33.32)	AMV15B-ND	10.08	48.36	1658611-3
25	Gold	1.852 (47.04)	AMV25B-ND	12.07	57.95	1658611-2
Female D-Sub Connectors, Metal Shell						
50	Gold	2.406 (61.11)	AFR50G-ND	27.72	225.72	746789-1
Female D-Sub Connectors, Metal Shell RoHS Compliant						
9	Gold	.984 (24.99)	AFR09B-ND	7.51	35.62	1658612-4
15	Gold	1.312 (33.32)	AFR15B-ND	8.56	40.58	1658612-3
25	Gold	1.852 (47.04)	AFR25B-ND	10.65	50.49	1658612-2
37	Gold	2.500 (63.50)	AFR37B-ND	14.26	67.63	1658612-1
50	Gold	2.406 (61.11)	AFR50B-ND	25.94	123.01	1658606-1
Female D-Sub Conn., Plastic Shell, With Threaded Inserts						
9	Gold	.984 (24.99)	AFV09K-ND	9.56	45.89	747051-4
15	Gold	1.312 (33.32)	AFV15K-ND	10.78	51.75	747051-3
37	Gold	2.500 (63.50)	AFV37K-ND	37.31	179.11	747051-1
Female D-Sub Conn., Plastic Shell, With Threaded Inserts - RoHS Compliant						
9	Gold	.984 (24.99)	AFV09B-ND	8.94	42.38	1658609-4
15	Gold	1.312 (33.32)	AFV15B-ND	10.08	47.79	1658609-3
25	Gold	1.852 (47.04)	AFV25B-ND	12.07	57.26	1658609-2
37	Gold	2.500 (63.50)	AFV37B-ND	22.14	105.02	1658609-1

No. of Contacts	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
Cable Strain Relief/Stabilizer - RoHS Compliant						
9	—	—	ADSR09-ND	.42	2.05	747275-4
15	—	—	ADSR15-ND	.48	2.31	747275-3
25	—	—	ADSR25-ND	.56	2.70	747275-2
37	—	—	ADSR37-ND	.63	3.08	747275-1
50	—	—	ADSR50-ND	1.32	6.41	746785-1

A□□□□-□□□□□-ND

Style
7□□(D-SUB)

Conn. Finish
B is >15μ Gold
H is ≤15μ Gold
S=Tin

No. Of Contacts

Length
(Use "Feet" only.)

Ribbon Cable
M=Multi-color
G=Gray

D-Subminiature Cable Assemblies

Single Ended — Male

RoHS Compliant

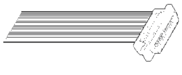

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Gold	6 (1.83)	MC	A7MXB-0906M-ND	7.60	61.89
	Gold	6 (1.83)	GR	A7MXB-0906G-ND	7.47	60.85
	Gold	10 (3.05)	MC	A7MXB-0910M-ND	7.74	62.99
	Gold	10 (3.05)	GR	A7MXB-0910G-ND	7.52	61.26
15	Gold	6 (1.83)	MC	A7MXB-1506M-ND	8.92	72.66
	Gold	6 (1.83)	GR	A7MXB-1506G-ND	8.69	70.78
	Gold	10 (3.05)	MC	A7MXB-1510M-ND	9.14	74.44
	Gold	10 (3.05)	GR	A7MXB-1510G-ND	8.76	71.30
25	Gold	6 (1.83)	MC	A7MXB-2506M-ND	11.23	91.44
	Gold	6 (1.83)	GR	A7MXB-2506G-ND	10.86	88.44
	Gold	10 (3.05)	MC	A7MXB-2510M-ND	11.59	94.40
	Gold	10 (3.05)	GR	A7MXB-2510G-ND	10.98	89.41
37	Gold	6 (1.83)	MC	A7MXB-3706M-ND	15.29	124.54
	Gold	6 (1.83)	GR	A7MXB-3706G-ND	14.74	120.03
	Gold	10 (3.05)	MC	A7MXB-3710M-ND	15.83	128.93
	Gold	10 (3.05)	GR	A7MXB-3710G-ND	14.91	121.42

Also available in the following configuration:

A7PX□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.

A7VXB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.

A7NXB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.
Note: Available with 9, 15 and 25 contacts.

Call for complete part number and pricing!

Single Ended — Female

RoHS Compliant

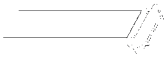

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Gold	6 (1.83)	MC	A7FXB-0906M-ND	7.60	61.89
	Gold	6 (1.83)	GR	A7FXB-0906G-ND	7.47	60.85
	Gold	10 (3.05)	MC	A7FXB-0910M-ND	7.74	62.99
	Gold	10 (3.05)	GR	A7FXB-0910G-ND	7.52	61.26
15	Gold	6 (1.83)	MC	A7FXB-1506M-ND	8.92	72.66
	Gold	6 (1.83)	GR	A7FXB-1506G-ND	8.69	70.78
	Gold	10 (3.05)	MC	A7FXB-1510M-ND	9.14	74.44
	Gold	10 (3.05)	GR	A7FXB-1510G-ND	8.76	71.30
25	Gold	6 (1.83)	MC	A7FXB-2506M-ND	11.23	91.44
	Gold	6 (1.83)	GR	A7FXB-2506G-ND	10.86	88.44
	Gold	10 (3.05)	MC	A7FXB-2510M-ND	11.59	94.40
	Gold	10 (3.05)	GR	A7FXB-2510G-ND	10.98	89.41
37	Gold	6 (1.83)	MC	A7FXB-3706M-ND	15.29	124.54
	Gold	6 (1.83)	GR	A7FXB-3706G-ND	14.74	120.03
	Gold	10 (3.05)	MC	A7FXB-3710M-ND	15.83	128.93
	Gold	10 (3.05)	GR	A7FXB-3710G-ND	14.91	121.42

Also available in the following configuration:

A7SX□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.

A7WXB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.

A7OXB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.

Call for complete part number and pricing!

Male to Male

RoHS Compliant

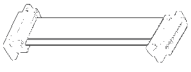

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Gold	6 (1.83)	MC	A7MMB-0906M-ND	15.00	122.12
	Gold	6 (1.83)	GR	A7MMB-0906G-ND	14.87	121.08
	Gold	10 (3.05)	MC	A7MMB-0910M-ND	15.13	123.22
	Gold	10 (3.05)	GR	A7MMB-0910G-ND	14.92	121.49
15	Gold	6 (1.83)	MC	A7MMB-1506M-ND	17.52	142.66
	Gold	6 (1.83)	GR	A7MMB-1506G-ND	17.29	140.78
	Gold	10 (3.05)	MC	A7MMB-1510M-ND	17.74	144.44
	Gold	10 (3.05)	GR	A7MMB-1510G-ND	17.35	141.30
25	Gold	6 (1.83)	MC	A7MMB-2506M-ND	21.91	178.43
	Gold	6 (1.83)	GR	A7MMB-2506G-ND	21.54	175.44
	Gold	10 (3.05)	MC	A7MMB-2510M-ND	22.28	181.39
	Gold	10 (3.05)	GR	A7MMB-2510G-ND	21.66	176.41
37	Gold	6 (1.83)	MC	A7MMB-3706M-ND	29.78	242.50
	Gold	6 (1.83)	GR	A7MMB-3706G-ND	29.23	238.00
	Gold	10 (3.05)	MC	A7MMB-3710M-ND	30.32	246.89
	Gold	10 (3.05)	GR	A7MMB-3710G-ND	29.40	239.38

Also available in the following configuration:

A7PP□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7VVB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7NNB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.
Call for complete part number and pricing!

Female to Female

RoHS Compliant

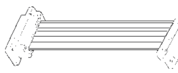

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Gold	6 (1.83)	MC	A7FFB-0906M-ND	15.00	122.12
	Gold	6 (1.83)	GR	A7FFB-0906G-ND	14.87	121.08
	Gold	10 (3.05)	MC	A7FFB-0910M-ND	15.13	123.22
	Gold	10 (3.05)	GR	A7FFB-0910G-ND	14.92	121.49
15	Gold	6 (1.83)	MC	A7FFB-1506M-ND	17.52	142.66
	Gold	6 (1.83)	GR	A7FFB-1506G-ND	17.29	140.78
	Gold	10 (3.05)	MC	A7FFB-1510M-ND	17.74	144.44
	Gold	10 (3.05)	GR	A7FFB-1510G-ND	17.35	141.30
25	Gold	6 (1.83)	MC	A7FFB-2506M-ND	21.91	178.43
	Gold	6 (1.83)	GR	A7FFB-2506G-ND	21.54	175.44
	Gold	10 (3.05)	MC	A7FFB-2510M-ND	22.28	181.39
	Gold	10 (3.05)	GR	A7FFB-2510G-ND	21.66	176.41
37	Gold	6 (1.83)	MC	A7FFB-3706M-ND	29.78	242.50
	Gold	6 (1.83)	GR	A7FFB-3706G-ND	29.23	238.00
	Gold	10 (3.05)	MC	A7FFB-3710M-ND	30.32	246.89
	Gold	10 (3.05)	GR	A7FFB-3710G-ND	29.40	239.38

Also available in the following configuration:

A7SS□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7WWB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7OOB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.
Call for complete part number and pricing!

Male to Female

RoHS Compliant

* MC = Multi-Color, GR = Gray

Plastic shell with strain relief shown

No. of Contacts	Conn. Finish	Length Feet (Meters)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
9	Gold	6 (1.83)	MC	A7MFB-0906M-ND	15.00	122.12
	Gold	6 (1.83)	GR	A7MFB-0906G-ND	14.87	121.08
	Gold	10 (3.05)	MC	A7MFB-0910M-ND	15.13	123.22
	Gold	10 (3.05)	GR	A7MFB-0910G-ND	14.92	121.49
15	Gold	6 (1.83)	MC	A7MFB-1506M-ND	17.52	142.66
	Gold	6 (1.83)	GR	A7MFB-1506G-ND	17.29	140.78
	Gold	10 (3.05)	MC	A7MFB-1510M-ND	17.74	144.44
	Gold	10 (3.05)	GR	A7MFB-1510G-ND	17.35	141.30
25	Gold	6 (1.83)	MC	A7MFB-2506M-ND	21.91	178.43
	Gold	6 (1.83)	GR	A7MFB-2506G-ND	21.54	175.44
	Gold	10 (3.05)	MC	A7MFB-2510M-ND	22.28	181.39
	Gold	10 (3.05)	GR	A7MFB-2510G-ND	21.66	176.41
37	Gold	6 (1.83)	MC	A7MFB-3706M-ND	29.78	242.50
	Gold	6 (1.83)	GR	A7MFB-3706G-ND	29.23	238.00
	Gold	10 (3.05)	MC	A7MFB-3710M-ND	30.32	246.89
	Gold	10 (3.05)	GR	A7MFB-3710G-ND	29.40	239.38

Also available in the following configuration:

A7PS□-□□□□□-ND – With Metal Shell Connector and Strain Relief.
Note: Also available with 50 contacts.
A7VWB-□□□□□-ND – Metal Shell with Threaded Insert and Strain Relief.
A7NOB-□□□□□-ND – Plastic Shell with Threaded Insert and Strain Relief.

Call for complete part number and pricing!

tyco Electronics AMP

Ribbon Cable Dip Plugs

RoHS Compliant

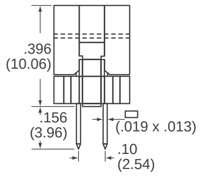

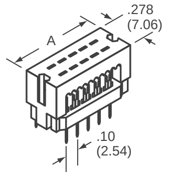

Material and Finish: • Plastic Shell: Housing, Cover & Strain Relief — Black thermoplastic, UL 94V-0 rated • Tin Finish: Contacts — Phosphor bronze • Centerline — .100 x .100

No. of Cont.	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	10	AMP Part No.
10	Tin	.680 (17.27)	AMD10T-ND	1.63	7.75	746610-1
44		2.380 (60.45)	AMD44T-ND	6.10	28.94	1-746610-3
60		3.180 (80.77)	AMD60T-ND	4.36	20.69	1-746610-1
64		3.380 (85.85)	AMD64T-ND	7.18	34.07	1-746610-2
			RoHS Compliant			
10	Tin	.680 (17.27)	AMD10S-ND	1.53	7.28	2-746610-1
14		.880 (22.35)	AMD14S-ND	1.72	8.17	2-746610-2
16		.980 (24.89)	AMD16S-ND	2.00	9.48	1-746610-4
20		1.180 (29.97)	AMD20S-ND	2.21	10.46	1-746610-5
24		1.380 (35.05)	AMD24S-ND	2.55	12.10	2-746610-3
26	Tin	1.480 (37.59)	AMD26S-ND	2.76	13.08	1-746610-6
30		1.680 (42.67)	AMD30S-ND	3.10	14.71	1-746610-7
34		1.880 (47.75)	AMD34S-ND	3.31	15.69	1-746610-8
40		2.180 (55.37)	AMD40S-ND	3.72	17.66	1-746610-9
44		2.380 (60.45)	AMD44S-ND	4.80	22.78	2-746610-6
50	Tin	2.680 (68.07)	AMD50S-ND	4.34	20.60	2-746610-0
60		3.180 (80.77)	AMD60S-ND	3.96	18.77	2-746610-4
64		3.380 (85.85)	AMD64S-ND	5.65	26.82	2-746610-5

Dip Plug Cable Assemblies

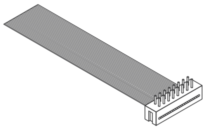

RoHS Compliant

Single Ended — Style 2

* MC = Multi-Color, GR = Gray

No. of Cont.	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Tin	6 (15.24)	MC	A2MXS-1006M-ND	1.46	11.88
		6 (15.24)	GR	A2MXS-1006G-ND	1.33	10.85
		18 (45.72)	MC	A2MXS-1018M-ND	1.86	15.18
		18 (45.72)	GR	A2MXS-1018G-ND	1.48	12.08
		36 (91.44)	MC	A2MXS-1036M-ND	2.47	20.12
		36 (91.44)	GR	A2MXS-1036G-ND	1.71	13.92
14	Tin	6 (15.24)	MC	A2MXS-1406M-ND	1.65	13.43
		6 (15.24)	GR	A2MXS-1406G-ND	1.46	11.85
		18 (45.72)	MC	A2MXS-1418M-ND	2.22	18.05
		18 (45.72)	GR	A2MXS-1418G-ND	1.64	13.32
		36 (91.44)	MC	A2MXS-1436M-ND	3.07	24.97
		36 (91.44)	GR	A2MXS-1436G-ND	1.90	15.51
16	Tin	6 (15.24)	MC	A2MXS-1606M-ND	1.92	15.62
		6 (15.24)	GR	A2MXS-1606G-ND	1.69	13.75
		18 (45.72)	MC	A2MXS-1618M-ND	2.59	21.07
		18 (45.72)	GR	A2MXS-1618G-ND	1.90	15.45
		36 (91.44)	MC	A2MXS-1636M-ND	3.59	29.23
		36 (91.44)	GR	A2MXS-1636G-ND	2.21	18.00
20	Tin	6 (15.24)	MC	A2MXS-2006M-ND	2.19	17.79
		6 (15.24)	GR	A2MXS-2006G-ND	1.87	15.21
		18 (45.72)	MC	A2MXS-2018M-ND	3.06	24.91
		18 (45.72)	GR	A2MXS-2018G-ND	2.11	17.16
		36 (91.44)	MC	A2MXS-2036M-ND	4.37	35.58
		36 (91.44)	GR	A2MXS-2036G-ND	2.47	20.08
24	Tin	6 (15.24)	MC	A2MXS-2406M-ND	2.55	20.73
		6 (15.24)	GR	A2MXS-2406G-ND	2.17	17.67
		18 (45.72)	MC	A2MXS-2418M-ND	3.59	29.27
		18 (45.72)	GR	A2MXS-2418G-ND	2.47	20.11
		36 (91.44)	MC	A2MXS-2436M-ND	5.17	42.08
		36 (91.44)	GR	A2MXS-2436G-ND	2.92	23.75
26	Tin	6 (15.24)	MC	A2MXS-2606M-ND	2.74	22.28
		6 (15.24)	GR	A2MXS-2606G-ND	2.37	19.31
		18 (45.72)	MC	A2MXS-2618M-ND	3.84	31.25
		18 (45.72)	GR	A2MXS-2618G-ND	2.75	22.35
		36 (91.44)	MC	A2MXS-2636M-ND	5.49	44.70
		36 (91.44)	GR	A2MXS-2636G-ND	3.31	26.91
34	Tin	6 (15.24)	MC	A2MXS-3406M-ND	3.36	27.40
		6 (15.24)	GR	A2MXS-3406G-ND	2.86	23.26
		18 (45.72)	MC	A2MXS-3418M-ND	4.85	39.49
		18 (45.72)	GR	A2MXS-3418G-ND	3.33	27.08
		36 (91.44)	MC	A2MXS-3436M-ND	7.08	57.63
		36 (91.44)	GR	A2MXS-3436G-ND	4.03	32.81
40	Tin	6 (15.24)	MC	A2MXS-4006M-ND	3.82	31.10
		6 (15.24)	GR	A2MXS-4006G-ND	3.22	26.26
		18 (45.72)	MC	A2MXS-4018M-ND	5.56	45.25
		18 (45.72)	GR	A2MXS-4018G-ND	3.77	30.73
		36 (91.44)	MC	A2MXS-4036M-ND	8.17	66.49
		36 (91.44)	GR	A2MXS-4036G-ND	4.60	37.45
50	Tin	6 (15.24)	MC	A2MXS-5006M-ND	4.53	36.91
		6 (15.24)	GR	A2MXS-5006G-ND	3.78	30.82
		18 (45.72)	MC	A2MXS-5018M-ND	6.72	54.69
		18 (45.72)	GR	A2MXS-5018G-ND	4.47	36.40
		36 (91.44)	MC	A2MXS-5036M-ND	9.99	81.35
		36 (91.44)	GR	A2MXS-5036G-ND	5.50	44.78
60	Tin	6 (15.24)	MC	A2MXS-6006M-ND	5.13	41.81
		6 (15.24)	GR	A2MXS-6006G-ND	4.23	34.47
		18 (45.72)	MC	A2MXS-6018M-ND	7.75	63.14
		18 (45.72)	GR	A2MXS-6018G-ND	5.05	41.14
		36 (91.44)	MC	A2MXS-6036M-ND	11.69	95.15
		36 (91.44)	GR	A2MXS-6036G-ND	6.28	51.15
64	Tin	6 (15.24)	MC	A2MXS-6406M-ND	5.30	43.14
		6 (15.24)	GR	A2MXS-6406G-ND	4.40	35.81
		18 (45.72)	MC	A2MXS-6418M-ND	7.92	64.48
		18 (45.72)	GR	A2MXS-6418G-ND	5.22	42.48
		36 (91.44)	MC	A2MXS-6436M-ND	11.85	96.48
		36 (91.44)	GR	A2MXS-6436G-ND	6.44	52.48

Double Ended — Style 6

RoHS Compliant

* MC = Multi-Color, GR = Gray

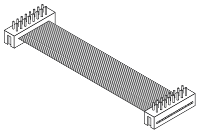

No. of Cont.	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Tin	6 (15.24)	MC	A6MMS-1006M-ND	2.72	22.11
		6 (15.24)	GR	A6MMS-1006G-ND	2.59	21.08
		18 (45.72)	MC	A6MMS-1018M-ND	3.12	25.41
		18 (45.72)	GR	A6MMS-1018G-ND	2.74	22.31
		36 (91.44)	MC	A6MMS-1036M-ND	3.73	30.35
		36 (91.44)	GR	A6MMS-1036G-ND	2.97	24.15
14	Tin	6 (15.24)	MC	A6MMS-1406M-ND	3.01	24.55
		6 (15.24)	GR	A6MMS-1406G-ND	2.82	22.97
		18 (45.72)	MC	A6MMS-1418M-ND	3.58	29.17
		18 (45.72)	GR	A6MMS-1418G-ND	3.00	24.44
		36 (91.44)	MC	A6MMS-1436M-ND	4.43	36.09
		36 (91.44)	GR	A6MMS-1436G-ND	3.27	26.63
16	Tin	6 (15.24)	MC	A6MMS-1606M-ND	3.50	28.52
		6 (15.24)	GR	A6MMS-1606G-ND	3.27	26.65
		18 (45.72)	MC	A6MMS-1618M-ND	4.17	33.97
		18 (45.72)	GR	A6MMS-1618G-ND	3.48	28.35
		36 (91.44)	MC	A6MMS-1636M-ND	5.17	42.13
		36 (91.44)	GR	A6MMS-1636G-ND	3.80	30.90
20	Tin	6 (15.24)	MC	A6MMS-2006M-ND	3.93	32.03
		6 (15.24)	GR	A6MMS-2006G-ND	3.62	29.44
		18 (45.72)	MC	A6MMS-2018M-ND	4.81	39.14
		18 (45.72)	GR	A6MMS-2018G-ND	3.85	31.39
		36 (91.44)	MC	A6MMS-2036M-ND	6.12	49.82
		36 (91.44)	GR	A6MMS-2036G-ND	4.21	34.31
24	Tin	6 (15.24)	MC	A6MMS-2406M-ND	4.57	37.19
		6 (15.24)	GR	A6MMS-2406G-ND	4.19	34.13
		18 (45.72)	MC	A6MMS-2418M-ND	5.62	45.73
		18 (45.72)	GR	A6MMS-2418G-ND	4.49	36.57
		36 (91.44)	MC	A6MMS-2436M-ND	7.19	58.54
		36 (91.44)	GR	A6MMS-2436G-ND	4.94	40.21
26	Tin	6 (15.24)	MC	A6MMS-2606M-ND	4.92	40.07
		6 (15.24)	GR	A6MMS-2606G-ND	4.56	37.11
		18 (45.72)	MC	A6MMS-2618M-ND	6.02	49.04
		18 (45.72)	GR	A6MMS-2618G-ND	4.93	40.15
		36 (91.44)	MC	A6MMS-2636M-ND	7.67	62.49
		36 (91.44)	GR	A6MMS-2636G-ND	5.49	44.71
34	Tin	6 (15.24)	MC	A6MMS-3406M-ND	5.99	48.75
		6 (15.24)	GR	A6MMS-3406G-ND	5.48	44.61
		18 (45.72)	MC	A6MMS-3418M-ND	7.47	60.84
		18 (45.72)	GR	A6MMS-3418G-ND	5.95	48.43
		36 (91.44)	MC	A6MMS-3436M-ND	9.70	78.98
		36 (91.44)	GR	A6MMS-3436G-ND	6.65	54.16
40	Tin	6 (15.24)	MC	A6MMS-4006M-ND	6.77	55.12
		6 (15.24)	GR	A6MMS-4006G-ND	6.17	50.28
		18 (45.72)	MC	A6MMS-4018M-ND	8.51	69.28
		18 (45.72)	GR	A6MMS-4018G-ND	6.72	54.75
		36 (91.44)	MC	A6MMS-4036M-ND	11.12	90.51
		36 (91.44)	GR	A6MMS-4036G-ND	7.55	61.47
50	Tin	6 (15.24)	MC	A6MMS-5006M-ND	7.97	64.94
		6 (15.24)	GR	A6MMS-5006G-ND	7.23	58.84
		18 (45.72)	MC	A6MMS-5018M-ND	10.16	82.71
		18 (45.72)	GR	A6MMS-5018G-ND	7.91	64.43
		36 (91.44)	MC	A6MMS-5036M-ND	13.43	109.37
		36 (91.44)	GR	A6MMS-5036G-ND	8.94	72.81
60	Tin	6 (15.24)	MC	A6MMS-6006M-ND	8.96	72.95
		6 (15.24)	GR	A6MMS-6006G-ND	8.06	65.61
		18 (45.72)	MC	A6MMS-6018M-ND	11.58	94.28
		18 (45.72)	GR	A6MMS-6018G-ND	8.88	72.28
		36 (91.44)	MC	A6MMS-6036M-ND	15.51	126.29
		36 (91.44)	GR	A6MMS-6036G-ND	10.11	82.28
64	Tin	6 (15.24)	MC	A6MMS-6406M-ND	9.29	75.62
		6 (15.24)	GR	A6MMS-6406G-ND	8.39	68.28
		18 (45.72)	MC	A6MMS-6418M-ND	11.91	96.95
		18 (45.72)	GR	A6MMS-6418G-ND	9.20	74.95
		36 (91.44)	MC	A6MMS-6436M-ND	15.84	128.96
		36 (91.44)	GR	A6MMS-6436G-ND	10.43	84.95

Double Ended — Style 8

RoHS Compliant

* MC = Multi-Color, GR = Gray

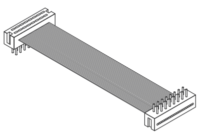

No. of Cont.	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Tin	6 (15.24)	MC	A8MMS-1006M-ND	2.72	22.11
		6 (15.24)	GR	A8MMS-1006G-ND	2.59	21.08
		18 (45.72)	MC	A8MMS-1018M-ND	3.12	25.41
		18 (45.72)	GR	A8MMS-1018G-ND	2.74	22.31
		36 (91.44)	MC	A8MMS-1036M-ND	3.73	30.35
		36 (91.44)	GR	A8MMS-1036G-ND	2.97	24.15
14	Tin	6 (15.24)	MC	A8MMS-1406M-ND	3.01	24.55
		6 (15.24)	GR	A8MMS-1406G-ND	2.82	22.97
		18 (45.72)	MC	A8MMS-1418M-ND	3.58	29.17
		18 (45.72)	GR	A8MMS-1418G-ND	3.00	24.44
		36 (91.44)	MC	A8MMS-1436M-ND	4.43	36.09
		36 (91.44)	GR	A8MMS-1436G-ND	3.27	26.63
16	Tin	6 (15.24)	MC	A8MMS-1606M-ND	3.50	28.52
		6 (15.24)	GR	A8MMS-1606G-ND	3.27	26.65
		18 (45.72)	MC	A8MMS-1618M-ND	4.17	33.97
		18 (45.72)	GR	A8MMS-1618G-ND	3.48	28.35
		36 (91.44)	MC	A8MMS-1636M-ND	5.17	42.13
		36 (91.44)	GR	A8MMS-1636G-ND	3.80	30.90
20	Tin	6 (15.24)	MC	A8MMS-2006M-ND	3.93	32.03
		6 (15.24)	GR	A8MMS-2006G-ND	3.62	29.44
		18 (45.72)	MC	A8MMS-2018M-ND	4.81	39.14
		18 (45.72)	GR	A8MMS-2018G-ND	3.85	31.39
		36 (91.44)	MC	A8MMS-2036M-ND	6.12	49.82
		36 (91.44)	GR	A8MMS-2036G-ND	4.21	34.31
24	Tin	6 (15.24)	MC	A8MMS-2406M-ND	4.57	37.19
		6 (15.24)	GR	A8MMS-2406G-ND	4.19	34.13
		18 (45.72)	MC	A8MMS-2418M-ND	5.62	45.73
		18 (45.72)	GR	A8MMS-2418G-ND	4.49	36.57
		36 (91.44)	MC	A8MMS-2436M-ND	7.19	58.54
		36 (91.44)	GR	A8MMS-2436G-ND	4.94	40.21
26	Tin	6 (15.24)	MC	A8MMS-2606M-ND	4.92	40.07
		6 (15.24)	GR	A8MMS-2606G-ND	4.56	37.11
		18 (45.72)	MC	A8MMS-2618M-ND	6.02	49.04
		18 (45.72)	GR	A8MMS-2618G-ND	4.93	40.15
		36 (91.44)	MC	A8MMS-2636M-ND	7.67	62.49
		36 (91.44)	GR	A8MMS-2636G-ND	5.49	44.71
34	Tin	6 (15.24)	MC	A8MMS-3406M-ND	5.99	48.75
		6 (15.24)	GR	A8MMS-3406G-ND	5.48	44.61
		18 (45.72)	MC	A8MMS-3418M-ND	7.47	60.84
		18 (45.72)	GR	A8MMS-3418G-ND	5.95	48.43
		36 (91.44)	MC	A8MMS-3436M-ND	9.70	78.98
		36 (91.44)	GR	A8MMS-3436G-ND	6.65	54.16
40	Tin	6 (15.24)	MC	A8MMS-4006M-ND	6.77	55.12
		6 (15.24)	GR	A8MMS-4006G-ND	6.17	50.28
		18 (45.72)	MC	A8MMS-4018M-ND	8.51	69.28
		18 (45.72)	GR	A8MMS-4018G-ND	6.72	54.75
		36 (91.44)	MC	A8MMS-4036M-ND	11.12	90.51
		36 (91.44)	GR	A8MMS-4036G-ND	7.55	61.47
50	Tin	6 (15.24)	MC	A8MMS-5006M-ND	7.97	64.94
		6 (15.24)	GR	A8MMS-5006G-ND	7.23	58.84
		18 (45.72)	MC	A8MMS-5018M-ND	10.16	82.71
		18 (45.72)	GR	A8MMS-5018G-ND	7.91	64.43
		36 (91.44)	MC	A8MMS-5036M-ND	13.43	109.37
		36 (91.44)	GR	A8MMS-5036G-ND	8.94	72.81
60	Tin	6 (15.24)	MC	A8MMS-6006M-ND	8.96	72.95
		6 (15.24)	GR	A8MMS-6006G-ND	8.06	65.61
		18 (45.72)	MC	A8MMS-6018M-ND	11.58	94.28
		18 (45.72)	GR	A8MMS-6018G-ND	8.88	72.28
		36 (91.44)	MC	A8MMS-6036M-ND	15.51	126.29
		36 (91.44)	GR	A8MMS-6036G-ND	10.11	82.28
64	Tin	6 (15.24)	MC	A8MMS-6406M-ND	9.29	75.62
		6 (15.24)	GR	A8MMS-6406G-ND	8.39	68.28
		18 (45.72)	MC	A8MMS-6418M-ND	11.91	96.95
		18 (45.72)	GR	A8MMS-6418G-ND	9.20	74.95
		36 (91.44)	MC	A8MMS-6436M-ND	15.84	128.96
		36 (91.44)	GR	A8MMS-6436G-ND	10.43	84.95

tyco Electronics AMP

Socket Connectors

RoHS Compliant

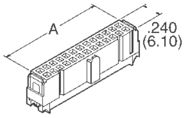

Socket Connector with Central Polarizing Key

Socket Connector

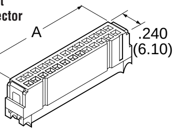

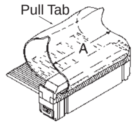

Permanent Pull-Tabs To Be Used With Strain Relief Version

Material and Finish: • Plastic Shell: Housing, Cover & Strain Relief — Black thermoplastic, 94V-0 rated • Gold Finish: Contacts — Phosphor bronze, duplex 15µ" gold or 30µ" gold on post/pin mating end, 100µ"-200µ" bright tin-lead on termination end, with entire contact underplated 50µ" nickel

No. of Cont.	Contact Finish	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	AMP Part No.
Socket Connector Only (Strain Reliefs Sold Separately)						
30	15µ" AU	1.68 (42.67)	ASC30G-ND	3.27	20.50	499997-7
40		2.18 (55.37)	ASC40G-ND	3.11	19.48	499997-9
64		3.38 (85.85)	ASC64G-ND	5.40	33.81	1-499997-2
10	30µ" AU	.68 (17.27)	ASN10A-ND	1.11	6.94	746290-1
24		1.38 (35.05)	ASN24A-ND	3.42	21.41	746290-5
26		1.48 (37.59)	ASN26A-ND	2.48	15.52	746290-6
34		1.88 (47.75)	ASN34A-ND	3.14	19.69	746290-8
50		2.67 (68.07)	ASN50A-ND	4.48	28.05	1-746290-0
Socket Connector Only — RoHS Compliant (Strain Reliefs Sold Separately)						
10	15µ" AU	.68 (17.27)	ASC10H-ND	1.19	5.71	1658620-1
14		.88 (22.35)	ASC14H-ND	1.74	8.35	1658620-2
16		.98 (24.89)	ASC16H-ND	1.83	8.79	1658620-3
20		1.18 (29.97)	ASC20H-ND	1.92	9.23	1658620-4
24		1.38 (35.05)	ASC24H-ND	3.06	14.67	1658620-5
26	15µ" AU	1.48 (37.59)	ASC26H-ND	3.06	14.67	1658620-6
30		1.68 (42.67)	ASC30H-ND	3.92	18.82	1658620-7
34		1.88 (47.75)	ASC34H-ND	3.41	16.37	1658620-8
40		2.18 (55.37)	ASC40H-ND	3.76	18.06	1658620-9
50		2.68 (68.07)	ASC50H-ND	4.59	21.75	1-1658620-0
64		3.38 (85.85)	ASC64H-ND†	3.81	23.89	1-1658620-2
10	30µ" AU	.68 (17.27)	ASN10B-ND	1.47	7.03	1658623-1
14		.88 (22.35)	ASN14B-ND	1.92	9.23	1658623-2
16		.98 (24.89)	ASN16B-ND	2.01	9.67	1658623-3
20		1.18 (29.97)	ASN20B-ND	2.11	10.11	1658623-4
24		1.38 (35.05)	ASN24B-ND	4.38	21.00	1658623-5
26	30µ" AU	1.48 (37.59)	ASN26B-ND	3.06	14.67	1658623-6
30		1.68 (42.67)	ASN30B-ND	3.53	16.93	1658623-7
34		1.88 (47.75)	ASN34B-ND	3.88	18.63	1658623-8
40		2.18 (55.37)	ASN40B-ND	4.59	22.01	1658623-9
50		2.68 (68.07)	ASN50B-ND	5.53	26.53	1-1658623-0
Socket Connector With Polarizing Key						
30	15µ" AU	1.68 (42.67)	AKC30G-ND	2.76	17.31	746285-7
60		3.18 (80.77)	AKC60G-ND	4.76	29.84	1-746285-1
26	30µ" AU	1.48 (37.59)	AKN26A-ND	1.80	11.29	746288-6
44		2.38 (60.45)	AKN44A-ND	4.38	27.45	1-746288-3
Socket Connector With Polarizing Key — RoHS Compliant						
10	15µ" AU	.68 (17.27)	AKC10H-ND	1.76	8.34	1658621-1
14		.88 (22.35)	AKC14H-ND	2.57	12.33	1658621-2
16		.98 (24.89)	AKC16H-ND	2.70	12.98	1658621-3
20		1.18 (29.97)	AKC20H-ND	2.47	11.85	1658621-4
24		1.38 (35.05)	AKC24H-ND	3.06	14.67	1658621-5
26	15µ" AU	1.48 (37.59)	AKC26H-ND	3.06	14.67	1658621-6
30		1.68 (42.67)	AKC30H-ND	3.41	16.37	1658621-7
34		1.88 (47.75)	AKC34H-ND	3.41	16.37	1658621-8
40		2.18 (55.37)	AKC40H-ND	3.76	18.06	1658621-9
44		2.38 (60.45)	AKC44H-ND†	3.36	15.95	1-1658621-3
50	15µ" AU	2.68 (68.07)	AKC50H-ND	4.59	22.01	1-1658621-0
60		3.18 (80.77)	AKC60H-ND	5.88	28.22	1-1658621-1
64		3.38 (85.85)	AKC64H-ND	6.47	31.04	1-1658621-2
10	30µ" AU	.68 (17.27)	AKN10B-ND	1.88	9.03	1658622-1
14		.88 (22.35)	AKN14B-ND	2.47	11.85	1658622-2
16		.98 (24.89)	AKN16B-ND	2.59	12.42	1658622-3
20		1.18 (29.97)	AKN20B-ND	2.70	12.98	1658622-4
24		1.38 (35.05)	AKN24B-ND	3.06	14.67	1658622-5
26	30µ" AU	1.48 (37.59)	AKN26B-ND	3.06	14.67	1658622-6
30		1.68 (42.67)	AKN30B-ND	3.88	18.63	1658622-7
34		1.88 (47.75)	AKN34B-ND	3.88	18.63	1658622-8
40		2.18 (55.37)	AKN40B-ND	4.59	22.01	1658622-9
44		2.38 (60.45)	AKN44B-ND	5.41	25.96	1-1658622-3
50	30µ" AU	2.68 (68.07)	AKN50B-ND	5.53	26.53	1-1658622-0
60		3.18 (80.77)	AKN60B-ND	6.82	32.74	1-1658622-1
64		3.38 (85.85)	AKN64B-ND	7.53	36.12	1-1658622-2
Strain Relief For Socket Connectors — RoHS Compliant						
10	—	.68 (17.27)	ASSR10-ND	.32	1.33	499252-5
14	—	.88 (22.35)	ASSR14-ND	.32	1.33	499252-9
16	—	.98 (24.89)	ASSR16-ND	.32	1.33	499252-8
20	—	1.18 (29.97)	ASSR20-ND	.32	1.33	499252-2
24	—	1.38 (35.05)	ASSR24-ND	.33	2.08	1-499252-0
26	—	1.48 (37.59)	ASSR26-ND	.33	1.54	499252-3
30	—	1.68 (42.67)	ASSR30-ND	.33	1.54	1-499252-2
34	—	1.88 (47.75)	ASSR34-ND	.33	1.54	499252-6
40	—	2.18 (55.37)	ASSR40-ND	.33	1.80	499252-1
44	—	2.38 (60.45)	ASSR44-ND	.62	3.86	1-499252-1
50	—	2.68 (68.07)	ASSR50-ND	.33	2.06	499252-4
60	—	3.18 (80.77)	ASSR60-ND	.37	2.32	499252-7
64	—	3.38 (85.85)	ASSR64-ND	.45	2.83	1-499252-3
Permanent Pull Tabs (For Connectors With Strain Reliefs)						
10	—	.44 (11.18)	ASPT10-ND	.30	1.53	88450-2
24	—	1.08 (27.43)	ASPT24-ND	.18	1.60	88450-6
30	—	1.38 (35.05)	ASPT30-ND	.23	2.08	1-88450-2
Continuous Strip no positions		120.0 (3048.0)	ASPT01-ND	20.22	126.66	88450-1
Permanent Pull Tabs — RoHS Compliant (For Connectors With Strain Reliefs)						
10	—	.44 (11.18)	ASPS10-ND	.25	1.21	5088450-2
14	—	.64 (16.26)	ASPS14-ND	.22	1.06	5088450-3
16	—	.74 (18.80)	ASPS16-ND	.30	1.45	5088450-4
20	—	.88 (22.35)	ASPS20-ND	.30	1.45	5088450-5
26	—	1.18 (29.97)	ASPS26-ND	.34	1.65	5088450-7
34	—	1.58 (40.13)	ASPS34-ND	.30	1.42	5088450-8
40	—	1.82 (46.23)	ASPS40-ND	.33	1.57	5088450-9
50	—	2.32 (58.93)	ASPS50-ND	.51	2.47	1-5088450-0
60	—	2.80 (71.12)	ASPS60-ND	.76	3.66	1-5088450-1
Continuous Strip no positions		120.0 (3048.0)	ASKP03-ND	24.96	119.78	88450-1
Keying Plug For Socket Connectors — RoHS Compliant						
Keying Plugs			ASKP01-ND	.14	1.25	499712-1
Keying Plugs 10/Comb			ASKP02-ND	1.13	10.19	104072-1

† ***NEW!***

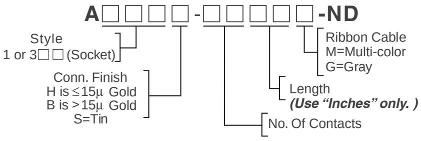

Termination Jumpers

Socket Connector — Single Ended

RoHS Compliant

* MC = Multi-Color, GR = Gray

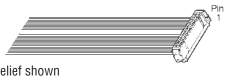

Socket connector without strain relief shown

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-1036M-ND A1AXH-1036G-ND	2.36 1.60	19.26 13.06
14	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-1436M-ND A1AXH-1436G-ND	3.38 2.22	27.54 18.08
16	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-1636M-ND A1AXH-1636G-ND	3.78 2.40	30.74 19.51
20	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-2036M-ND A1AXH-2036G-ND	4.63 2.72	37.69 22.18
24	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-2436M-ND A1AXH-2436G-ND	5.45 3.20	44.35 26.03
26	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-2636M-ND A1AXH-2636G-ND	5.72 3.54	46.57 28.79
30	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-3036M-ND A1AXH-3036G-ND	6.25 4.07	50.93 33.15
34	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-3436M-ND A1AXH-3436G-ND	7.02 3.97	57.17 32.35
40	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-4036M-ND A1AXH-4036G-ND	8.10 4.54	65.98 36.94
50	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-5036M-ND A1AXH-5036G-ND	10.69 6.20	87.04 50.48
64	Gold	36 (91.44) 36 (91.44)	MC GR	A1AXH-6436M-ND A1AXH-6436G-ND	12.87 7.47	104.82 60.82

Also available in the following versions:

A1BXH-□□□□□-ND — Socket Connector with Strain Relief
Note: Also available with 60 contacts.
A1CXH-□□□□□-ND — Socket Connector with Central Polarizing Key
Note: Also available with 60 contacts.
A1DXH-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key
Note: Also available with 44 and 60 contacts.

Call for complete part number and pricing!

Socket Connector to Socket Connector

RoHS Compliant

* MC = Multi-Color,
GR = Gray

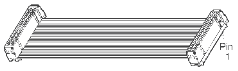

Socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	Pricing 10
10	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-1006M-ND A3AAH-1006G-ND A3AAH-1018M-ND A3AAH-1018G-ND A3AAH-1036M-ND A3AAH-1036G-ND	2.50 2.38 2.91 2.53 3.51 2.75	20.38 19.35 23.68 20.58 28.62 22.42
14	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-1406M-ND A3AAH-1406G-ND A3AAH-1418M-ND A3AAH-1418G-ND A3AAH-1436M-ND A3AAH-1436G-ND	3.65 3.45 4.21 3.63 5.06 3.90	29.69 28.11 34.30 29.57 41.23 31.77
16	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-1606M-ND A3AAH-1606G-ND A3AAH-1618M-ND A3AAH-1618G-ND A3AAH-1636M-ND A3AAH-1636G-ND	3.87 3.64 4.54 3.85 5.54 4.17	31.54 29.67 36.98 31.37 45.15 33.92
20	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-2006M-ND A3AAH-2006G-ND A3AAH-2018M-ND A3AAH-2018G-ND A3AAH-2036M-ND A3AAH-2036G-ND	4.45 4.13 5.32 4.37 6.63 4.73	36.24 33.65 43.35 35.60 54.03 38.52
24	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-2406M-ND A3AAH-2406G-ND A3AAH-2418M-ND A3AAH-2418G-ND A3AAH-2436M-ND A3AAH-2436G-ND	5.13 4.75 6.17 5.05 7.75 5.50	41.73 38.68 50.27 41.11 63.08 44.76
26	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-2606M-ND A3AAH-2606G-ND A3AAH-2618M-ND A3AAH-2618G-ND A3AAH-2636M-ND A3AAH-2636G-ND	5.38 5.02 6.48 5.39 8.13 5.95	43.82 40.86 52.79 43.90 66.24 48.46
30	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-3006M-ND A3AAH-3006G-ND A3AAH-3018M-ND A3AAH-3018G-ND A3AAH-3036M-ND A3AAH-3036G-ND	6.45 6.09 7.55 6.46 9.21 7.02	52.54 49.57 61.51 52.61 74.96 57.17
34	Gold	6 (15.24) 6 (15.24) 18 (15.24) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-3406M-ND A3AAH-3406G-ND A3AAH-3418M-ND A3AAH-3418G-ND A3AAH-3436M-ND A3AAH-3436G-ND	5.87 5.37 7.36 5.84 9.59 6.54	47.83 43.70 59.92 47.51 78.06 53.24
40	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-4006M-ND A3AAH-4006G-ND A3AAH-4018M-ND A3AAH-4018G-ND A3AAH-4036M-ND A3AAH-4036G-ND	6.64 6.05 8.38 6.60 10.99 7.42	54.11 49.27 68.26 53.74 89.50 60.45
50	Gold	6 (15.24) 6 (15.24) 18 (45.72) 18 (45.72) 36 (91.44) 36 (91.44)	MC GR MC GR MC GR	A3AAH-5006M-ND A3AAH-5006G-ND A3AAH-5018M-ND A3AAH-5018G-ND A3AAH-5036M-ND A3AAH-5036G-ND	9.37 8.62 11.56 9.31 14.83 10.34	76.32 70.23 94.10 75.81 120.76 84.19

(Continued)

Termination Jumpers *(Cont.)*

Socket Connector to Socket Connector *(Cont.)*

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
64	Gold	6 (15.24)	MC	A3AAH-6406M-ND	11.33	92.29
	Gold	6 (15.24)	GR	A3AAH-6406G-ND	10.43	84.96
	Gold	18 (45.72)	MC	A3AAH-6418M-ND	13.95	113.63
	Gold	18 (45.72)	GR	A3AAH-6418G-ND	11.25	91.63
	Gold	36 (91.44)	MC	A3AAH-6436M-ND	17.89	145.64
	Gold	36 (91.44)	GR	A3AAH-6436G-ND	12.48	101.63

Also available in the following versions:
A3BBH-□□□□□-ND — Socket Connector with Strain Relief.
Note: Also available with 60 contacts.
A3CCH-□□□□□-ND — Socket Connector with Strain Relief.
Note: Also available with 44 and 60 contacts.
A3DDH-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key.
Note: Also available with 44 and 60 contacts.

Call for complete part number and pricing!

Socket Connector to Pin Connector

RoHS Compliant

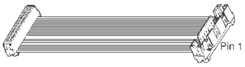

* MC = Multi-Color, GR = Gray

Socket connector without strain relief, plug connector without flange, without strain relief shown.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Gold	6 (15.24)	MC	A3AKB-1006M-ND	7.22	58.78
		6 (15.24)	GR	A3AKB-1006G-ND	7.09	57.74
		18 (45.72)	MC	A3AKB-1018M-ND	7.62	62.07
		18 (45.72)	GR	A3AKB-1018G-ND	7.24	58.97
		36 (91.44)	MC	A3AKB-1036M-ND	8.23	67.02
		36 (91.44)	GR	A3AKB-1036G-ND	7.47	60.82
14	Gold	6 (15.24)	MC	A3AKB-1406M-ND	13.94	113.48
		6 (15.24)	GR	A3AKB-1406G-ND	13.74	111.91
		18 (45.72)	MC	A3AKB-1418M-ND	14.50	118.10
		18 (45.72)	GR	A3AKB-1418G-ND	13.92	113.37
		36 (91.44)	MC	A3AKB-1436M-ND	15.35	125.02
		36 (91.44)	GR	A3AKB-1436G-ND	14.19	115.56
16	Gold	6 (15.24)	MC	A3AKB-1606M-ND	8.55	69.59
		6 (15.24)	GR	A3AKB-1606G-ND	8.32	67.72
		18 (45.72)	MC	A3AKB-1618M-ND	9.21	75.03
		18 (45.72)	GR	A3AKB-1618G-ND	8.52	69.42
		36 (91.44)	MC	A3AKB-1636M-ND	10.22	83.20
		36 (91.44)	GR	A3AKB-1636G-ND	8.84	71.97
20	Gold	6 (15.24)	MC	A3AKB-2006M-ND	9.16	74.56
		6 (15.24)	GR	A3AKB-2006G-ND	8.84	71.98
		18 (45.72)	MC	A3AKB-2018M-ND	10.03	81.68
		18 (45.72)	GR	A3AKB-2018G-ND	9.08	73.93
		36 (91.44)	MC	A3AKB-2036M-ND	11.34	92.35
		36 (91.44)	GR	A3AKB-2036G-ND	9.44	76.85
26	Gold	6 (15.24)	MC	A3AKB-2606M-ND	16.76	136.48
		6 (15.24)	GR	A3AKB-2606G-ND	16.40	133.52
		18 (45.72)	MC	A3AKB-2618M-ND	17.86	145.45
		18 (45.72)	GR	A3AKB-2618G-ND	16.77	136.56
		36 (91.44)	MC	A3AKB-2636M-ND	19.51	158.90
		36 (91.44)	GR	A3AKB-2636G-ND	17.33	141.12
30	Gold	6 (15.24)	MC	A3AKB-3006M-ND•	12.16	99.05
		6 (15.24)	GR	A3AKB-3006G-ND•	11.80	96.08
		18 (45.72)	MC	A3AKB-3018M-ND•	13.26	108.01
		18 (45.72)	GR	A3AKB-3018G-ND•	12.17	99.12
		36 (91.44)	MC	A3AKB-3036M-ND•	14.92	121.47
		36 (91.44)	GR	A3AKB-3036G-ND•	12.73	103.68
34	Gold	6 (15.24)	MC	A3AKB-3406M-ND•	12.69	103.31
		6 (15.24)	GR	A3AKB-3406G-ND•	12.18	99.17
		18 (45.72)	MC	A3AKB-3418M-ND•	14.17	115.40
		18 (45.72)	GR	A3AKB-3418G-ND•	12.65	102.99
		36 (91.44)	MC	A3AKB-3436M-ND•	16.40	133.54
		36 (91.44)	GR	A3AKB-3436G-ND•	13.35	108.72
40	Gold	6 (15.24)	MC	A3AKB-4006M-ND•	20.34	165.60
		6 (15.24)	GR	A3AKB-4006G-ND•	19.74	160.76
		18 (45.72)	MC	A3AKB-4018M-ND•	22.08	179.76
		18 (45.72)	GR	A3AKB-4018G-ND•	20.29	165.24
		36 (91.44)	MC	A3AKB-4036M-ND•	24.68	200.99
		36 (91.44)	GR	A3AKB-4036G-ND•	21.12	171.95
50	Gold	6 (15.24)	MC	A3AKB-5006M-ND	17.98	146.40
		6 (15.24)	GR	A3AKB-5006G-ND	17.23	140.31
		18 (45.72)	MC	A3AKB-5018M-ND	20.16	164.18
		18 (45.72)	GR	A3AKB-5018G-ND	17.92	145.90
		36 (91.44)	MC	A3AKB-5036M-ND	23.44	190.84
		36 (91.44)	GR	A3AKB-5036G-ND	18.95	154.27

Also available in the following versions:
A3BRB-□□□□□-ND — Socket Connector with Strain Relief.
Note: Also available with 24 contacts.
A3CKB-□□□□□-ND — Socket Connector with Central Polarizing Key.
Note: Also available with 64 contacts.
A3DKB-□□□□□-ND — Socket Connector with Strain Relief and Central Polarizing Key.
Note: Also available with 24 and 64 contacts.

- Not available with Strain Relief

Call for complete part number and pricing!

Pin Connectors

RoHS Compliant

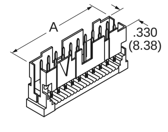

Material and Finish: • Housing & Cover: Black thermoplastic, 94V-0 rated

Electrical Characteristics: • Contact Current Rating: 1 Amp. • Dielectric Withstanding Voltage: Pin connectors 500 Volts, RMS

Contacts: • Phosphor Bronze, duplex plated 30µ" AU pin end; .000100 - .000200 bright tin-lead on cable termination end; entire contact underplated with 30µ" gold over nickel. **Specifications**: • Operating Temperature: -55°C ~ 105°C

Recognized under Component Program of Underwriters Laboratories Inc. File No. E28476.

Certified by Canadian Standards Association File No. LR16455.

No. of Con-tacts	Contact Finish	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	10	AMP Part No.
Pin Connectors (Strain Reliefs Sold Separately)						
16	30µ" AU	1.372 (34.85)	APK16A-ND	6.47	58.21	111446-3
26		1.872 (47.55)	APK26A-ND	15.57	140.11	111446-6
30	30µ" AU	2.072 (52.63)	APK30A-ND	16.45	148.01	111446-7
40		2.572 (65.33)	APK40A-ND	15.57	140.11	111446-9
50		3.072 (78.03)	APK50A-ND	16.58	149.18	1-111446-1
60	30µ" AU	3.527 (89.59)	APK60A-ND	17.78	160.00	1-111446-2
Pin Connectors — RoHS Compliant (Strain Reliefs Sold Separately)						
10	30µ" AU	1.072 (27.23)	APK10B-ND	5.78	27.72	1-111446-4
14		1.272 (32.31)	APK14B-ND	12.22	58.63	1-111446-5
16		1.372 (34.85)	APK16B-ND	6.48	31.08	1-111446-6
20		1.572 (39.93)	APK20B-ND	6.93	33.26	1-111446-8
26		1.872 (47.55)	APK26B-ND	13.09	62.83	2-111446-0
30	30µ" AU	2.072 (52.63)	APK30B-ND	13.79	66.19	2-111446-1
34		2.272 (57.71)	APK34B-ND	8.58	41.16	2-111446-2
40		2.572 (65.33)	APK40B-ND	15.68	75.26	2-111446-3
50		3.072 (78.03)	APK50B-ND	12.74	61.15	1-111446-7
64		3.772 (95.81)	APK64B-ND	20.65	99.12	2-111446-6
Strain Reliefs For Pin Connectors — RoHS Compliant						
10	—	—	APSR10-ND	6.25	56.21	111547-1
14	—	—	APSR14-ND	5.68	51.11	111547-2
16	—	—	APSR16-ND	4.90	44.10	111547-3
20	—	—	APSR20-ND	4.99	44.94	111547-4
24	—	—	APSR24-ND	4.20	37.82	111547-5
26	—	—	APSR26-ND	4.21	37.87	111547-6
44	—	—	APSR44-ND	4.26	38.38	1-111547-0
50	—	—	APSR50-ND	4.93	44.33	1-111547-1
Snap-In Polarizer — RoHS Compliant						
For Pin Connectors, Univ. Pin, Pinless Headers & Low Profile Pin Headers			A24195-ND	1.83	16.43	499991-2
Latch Ejector (2 Required per Connector) RoHS Compliant						
Short (For Connectors without Strain Relief)			ALSN02-ND	2.19/2	10.13/10	111451-1
Long (for Connectors with Strain Relief)			ALLN02-ND	2.53/2	11.69/10	111451-3

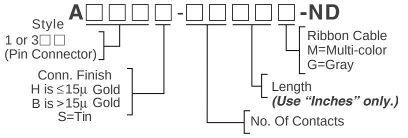

Pin Connector — Single Ended

RoHS Compliant

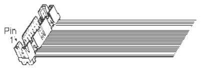

* MC = Multi-Color
GR = Gray

Pin connector without flange, without strain relief shown.

No. of Con-tacts	Conn. Finish	Length Inch (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Gold	36 (91.44)	MC	A1KXB-1036M-ND	6.81	55.49
		36 (91.44)	GR	A1KXB-1036G-ND	6.05	49.29
14	Gold	36 (91.44)	MC	A1KXB-1436M-ND	13.50	109.90
		36 (91.44)	GR	A1KXB-1436G-ND	12.33	100.43
16	Gold	36 (91.44)	MC	A1KXB-1636M-ND	8.27	67.35
		36 (91.44)	GR	A1KXB-1636G-ND	6.89	56.12
20	Gold	36 (91.44)	MC	A1KXB-2036M-ND	9.31	75.78
		36 (91.44)	GR	A1KXB-2036G-ND	7.40	60.28
26	Gold	36 (91.44)	MC	A1KXB-2636M-ND	16.64	135.49
		36 (91.44)	GR	A1KXB-2636G-ND	14.46	117.71
30	Gold	36 (91.44)	MC	A1KXB-3036M-ND•	11.60	94.45
		36 (91.44)	GC	A1KXB-3036G-ND•	9.42	76.67
34	Gold	36 (91.44)	MC	A1KXB-3436M-ND•	12.75	103.82
		36 (91.44)	GR	A1KXB-3436G-ND•	9.70	79.00
40	Gold	36 (91.44)	MC	A1KXB-4036M-ND•	20.37	165.87
		36 (91.44)	GR	A1KXB-4036G-ND•	16.80	136.83
50	Gold	36 (91.44)	MC	A1KXB-5036M-ND	18.24	148.51
		36 (91.44)	GC	A1KXB-5036G-ND	13.75	111.95
64	Gold	36 (91.44)	MC	A1KXB-6436M-ND•	27.81	226.46
		36 (91.44)	GC	A1KXB-6436G-ND•	22.41	182.46

Also available in the following version:
A1RXB-□□□□□-ND — Pin Connector with Strain Relief and Polarizing Key.
Note: Also available with 24 contacts.

- Not available with Strain Relief

Call for complete part number and pricing!

Pin Connector to Pin Connector

RoHS Compliant

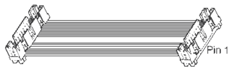

* MC = Multi-Color
GR = Gray

Pin connector, without strain relief shown.

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Gold	6 (15.24)	MC	A3KKB-1006M-ND	11.40	92.85
		6 (15.24)	GR	A3KKB-1006G-ND	11.28	91.82
		18 (45.72)	MC	A3KKB-1018M-ND	11.81	96.15
		18 (45.72)	GR	A3KKB-1018G-ND	11.43	93.05
		36 (91.44)	MC	A3KKB-1036M-ND	12.41	101.09
		36 (91.44)	GR	A3KKB-1036G-ND	11.65	94.89
14	Gold	6 (15.24)	MC	A3KKB-1406M-ND	23.87	194.40
		6 (15.24)	GR	A3KKB-1406G-ND	23.68	192.82
		18 (45.72)	MC	A3KKB-1418M-ND	24.44	199.02
		18 (45.72)	GR	A3KKB-1418G-ND	23.86	194.28
		36 (91.44)	MC	A3KKB-1436M-ND	25.29	205.94
		36 (91.44)	GR	A3KKB-1436G-ND	24.13	196.48
16	Gold	6 (15.24)	MC	A3KKB-1606M-ND	12.86	104.75
		6 (15.24)	GR	A3KKB-1606G-ND	12.63	102.88
		18 (45.72)	MC	A3KKB-1618M-ND	13.53	110.20
		18 (45.72)	GR	A3KKB-1618G-ND	12.84	104.58
		36 (91.44)	MC	A3KKB-1636M-ND	14.54	118.36
		36 (91.44)	GR	A3KKB-1636G-ND	13.16	107.13
20	Gold	6 (15.24)	MC	A3KKB-2006M-ND	13.81	112.43
		6 (15.24)	GR	A3KKB-2006G-ND	13.49	109.84
		18 (45.72)	MC	A3KKB-2018M-ND	14.68	119.54
		18 (45.72)	GR	A3KKB-2018G-ND	13.73	111.79
		36 (91.44)	MC	A3KKB-2036M-ND	15.99	130.22
		36 (91.44)	GR	A3KKB-2036G-ND	14.09	114.71
26	Gold	6 (15.24)	MC	A3KKB-2606M-ND	27.22	221.65
		6 (15.24)	GR	A3KKB-2606G-ND	26.86	218.69
		18 (45.72)	MC	A3KKB-2618M-ND	28.32	230.62
		18 (45.72)	GR	A3KKB-2618G-ND	27.23	221.73
		36 (91.44)	MC	A3KKB-2636M-ND	29.97	244.07
		36 (91.44)	GR	A3KKB-2636G-ND	27.79	226.29
30	Gold	6 (15.24)	MC	A3KKB-3006M-ND•	17.14	139.57
		6 (15.24)	GR	A3KKB-3006G-ND•	16.78	136.61
		18 (45.72)	MC	A3KKB-3018M-ND•	18.24	148.54
		18 (45.72)	GR	A3KKB-3018G-ND•	17.15	139.65
		36 (91.44)	MC	A3KKB-3036M-ND•	19.89	161.99
		36 (91.44)	GR	A3KKB-3036G-ND•	17.71	144.21
34	Gold	6 (15.24)	MC	A3KKB-3406M-ND•	17.33	141.14
		6 (15.24)	GR	A3KKB-3406G-ND•	16.82	137.00
		18 (45.72)	MC	A3KKB-3418M-ND•	18.82	153.23
		18 (45.72)	GR	A3KKB-3418G-ND•	17.29	140.82
		36 (91.44)	MC	A3KKB-3436M-ND•	21.04	171.37
		36 (91.44)	GR	A3KKB-3436G-ND•	18.00	146.55
40	Gold	6 (15.24)	MC	A3KKB-4006M-ND•	31.18	253.89
		6 (15.24)	GR	A3KKB-4006G-ND•	30.58	249.05
		18 (45.72)	MC	A3KKB-4018M-ND•	32.92	268.04
		18 (45.72)	GR	A3KKB-4018G-ND•	31.13	253.52
		36 (91.44)	MC	A3KKB-4036M-ND•	35.53	289.28
		36 (91.44)	GR	A3KKB-4036G-ND•	31.96	260.23
50	Gold	6 (15.24)	MC	A3KKB-5006M-ND	24.47	199.27
		6 (15.24)	GR	A3KKB-5006G-ND	23.72	193.17
		18 (45.72)	MC	A3KKB-5018M-ND	26.65	217.04
		18 (45.72)	GR	A3KKB-5018G-ND	24.41	198.76
		36 (91.44)	MC	A3KKB-5036M-ND	29.93	243.70
		36 (91.44)	GR	A3KKB-5036G-ND	25.44	207.14
64	Gold	6 (15.24)	MC	A3KKB-6406M-ND•	41.21	335.57
		6 (15.24)	GR	A3KKB-6406G-ND•	40.31	328.23
		18 (45.72)	MC	A3KKB-6418M-ND•	43.83	356.91
		18 (45.72)	GR	A3KKB-6418G-ND•	41.13	334.90
		36 (91.44)	MC	A3KKB-6436M-ND•	47.76	388.91
		36 (91.44)	GR	A3KKB-6436G-ND•	42.36	344.91

Also available in the following version:
A3RRB-□□□□□-ND — Pin Connector with Strain Relief & Polarizing Key.
Note: Also available with 24 contacts.

- Not available with Strain Relief

Call for complete part number and pricing!

CW INDUSTRIES

D-Subminiature Connectors

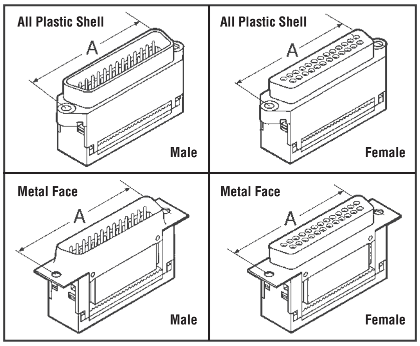

Specifications: • Contacts: phosphor bronze • Contact Plating: Gold –10µ inch gold (in mating area) over 50µ inch nickel; Tin -100µ inch tin-lead • Insulator material: UL 94V-0 flame-retardant thermoplastic • Cover pull-off force 226.79 grams/contact minimum (force applied along contacts' primary axis) • Withdrawal force 56.70g – 226.79g/contact, typical • Color: blue • Operating Temperature: –55° ~ 125°C • Current 1A (maximum) per contact • Dielectric Withstand Voltage: 500VDC (sea level) • Insulation resistance: 5 x 10^9 Ω

No. of Contacts	Contact Finish	Dim.A In. (mm)	Digi-Key Part No.	Pricing 1	10	100
Male D-Subminiature Connectors, Plastic Shell						
9	Gold	.984 (24.99)	CMP09G-ND	3.35	25.38	194.40
9	Tin	.984 (24.99)	CMP09T-ND	2.85	21.62	165.60
15	Gold	1.312 (33.32)	CMP15G-ND	4.40	33.37	255.60
15	Tin	1.312 (33.32)	CMP15T-ND	3.75	28.44	217.80
25	Gold	1.852 (47.04)	CMP25G-ND	5.92	44.89	343.80
25	Tin	1.852 (47.04)	CMP25T-ND	5.02	38.07	291.60
37	Gold	2.500 (63.50)	CMP37G-ND	8.74	66.27	507.60
37	Tin	2.500 (63.50)	CMP37T-ND	7.44	56.40	432.00
Female D-Subminiature Connectors, Plastic Shell						
9	Gold	.984 (24.99)	CFP09G-ND	3.84	29.14	223.20
9	Tin	.984 (24.99)	CFP09T-ND	3.26	24.68	189.00
15	Gold	1.312 (33.32)	CFP15G-ND	5.02	38.07	291.60
15	Tin	1.312 (33.32)	CFP15T-ND	4.28	32.43	248.40
25	Gold	1.852 (47.04)	CFP25G-ND	6.82	51.70	396.00
25	Tin	1.852 (47.04)	CFP25T-ND	5.80	43.95	336.60
37	Gold	2.500 (63.50)	CFP37G-ND	10.08	76.38	585.00
37	Tin	2.500 (63.50)	CFP37T-ND	8.56	64.86	496.80
Male D-Subminiature Connectors, Metal Face						
9	Gold	.984 (24.99)	CMM09G-ND	3.66	27.73	212.40
9	Tin	.984 (24.99)	CMM09T-ND	3.11	23.57	180.54
15	Gold	1.312 (33.32)	CMM15G-ND	4.81	36.43	279.00
15	Tin	1.312 (33.32)	CMM15T-ND	4.08	30.96	237.15
25	Gold	1.852 (47.04)	CMM25G-ND	6.51	49.35	378.00
25	Tin	1.852 (47.04)	CMM25T-ND	5.53	41.95	321.30
37	Gold	2.500 (63.50)	CMM37G-ND	9.64	73.09	559.80
37	Tin	2.500 (63.50)	CMM37T-ND	8.19	62.12	475.83
Female D-Subminiature Connectors, Metal Face						
9	Gold	.984 (24.99)	CFM09G-ND	4.25	32.20	246.60
9	Tin	.984 (24.99)	CFM09T-ND	3.61	27.37	209.61
15	Gold	1.312 (33.32)	CFM15G-ND	5.52	41.83	320.40
15	Tin	1.312 (33.32)	CFM15T-ND	4.69	35.56	272.34
25	Gold	1.852 (47.04)	CFM25G-ND	7.47	56.64	433.80
25	Tin	1.852 (47.04)	CFM25T-ND	6.35	48.14	368.73
37	Gold	2.500 (63.50)	CFM37G-ND	11.10	84.13	644.40
37	Tin	2.500 (63.50)	CFM37T-ND	9.43	71.51	547.74

C□□□□-□□□□□-ND

Style
7□□ (D-Sub)
Conn. Finish
G=Gold
T=Tin
Ribbon Cable
M=Multi-color
G=Gray
Length *(Use "Feet" only.)*
No. Of Contacts

D-Subminiature Cable Assemblies

Single Ended — Male

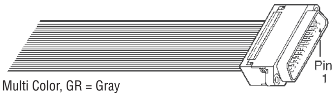

* MC = Multi Color, GR = Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MXG-0906M-ND	4.65	35.21
	Tin	6 (1.83)	MC	C7MXT-0906M-ND	4.14	31.41
	Gold	6 (1.83)	GR	C7MXG-0906G-ND	4.41	33.45
	Tin	6 (1.83)	GR	C7MXT-0906G-ND	3.91	29.65
	Gold	10 (3.05)	MC	C7MXG-0910M-ND	5.51	41.77
	Tin	10 (3.05)	MC	C7MXT-0910M-ND	5.01	37.96
	Gold	10 (3.05)	GR	C7MXG-0910G-ND	5.12	38.83
	Tin	10 (3.05)	GR	C7MXT-0910G-ND	4.62	35.03
15	Gold	6 (1.83)	MC	C7MXG-1506M-ND	6.73	51.00
	Tin	6 (1.83)	MC	C7MXT-1506M-ND	6.07	45.99
	Gold	6 (1.83)	GR	C7MXG-1506G-ND	6.00	45.50
	Tin	6 (1.83)	GR	C7MXT-1506G-ND	5.34	40.49
	Gold	10 (3.05)	MC	C7MXG-1510M-ND	8.28	62.75
	Tin	10 (3.05)	MC	C7MXT-1510M-ND	7.62	57.74
	Gold	10 (3.05)	GR	C7MXG-1510G-ND	7.07	53.58
	Tin	10 (3.05)	GR	C7MXT-1510G-ND	6.41	48.57
25	Gold	6 (1.83)	MC	C7MXG-2506M-ND	9.57	72.56
	Tin	6 (1.83)	MC	C7MXT-2506M-ND	8.68	65.82
	Gold	6 (1.83)	GR	C7MXG-2506G-ND	8.54	64.77
	Tin	6 (1.83)	GR	C7MXT-2506G-ND	7.66	58.03
	Gold	10 (3.05)	MC	C7MXG-2510M-ND	12.00	91.00
	Tin	10 (3.05)	MC	C7MXT-2510M-ND	11.12	84.27
	Gold	10 (3.05)	GR	C7MXG-2510G-ND	10.29	78.02
	Tin	10 (3.05)	GR	C7MXT-2510G-ND	9.40	71.29
37	Gold	6 (1.83)	MC	C7MXG-3706M-ND	14.08	106.77
	Tin	6 (1.83)	MC	C7MXT-3706M-ND	12.77	96.83
	Gold	6 (1.83)	GR	C7MXG-3706G-ND	12.76	96.76
	Tin	6 (1.83)	GR	C7MXT-3706G-ND	11.45	86.82
	Gold	10 (3.05)	MC	C7MXG-3710M-ND	17.65	133.77
	Tin	10 (3.05)	MC	C7MXT-3710M-ND	16.34	123.83
	Gold	10 (3.05)	GR	C7MXG-3710G-ND	15.45	117.09
	Tin	10 (3.05)	GR	C7MXT-3710G-ND	14.13	107.15

Also available in the following configuration:
C7PX□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Single Ended — Female

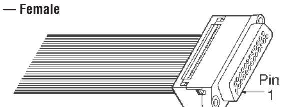

* MC = Multi-Color, GR = Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7FXG-0906M-ND	5.14	38.97
	Tin	6 (1.83)	MC	C7FXT-0906M-ND	4.56	34.60
	Gold	6 (1.83)	GR	C7FXG-0906G-ND	4.91	37.21
	Tin	6 (1.83)	GR	C7FXT-0906G-ND	4.33	32.84
	Gold	10 (3.05)	MC	C7FXG-0910M-ND	6.01	45.53
	Tin	10 (3.05)	MC	C7FXT-0910M-ND	5.43	41.16
	Gold	10 (3.05)	GR	C7FXG-0910G-ND	5.62	42.59
	Tin	10 (3.05)	GR	C7FXT-0910G-ND	5.04	38.22
15	Gold	6 (1.83)	MC	C7FXG-1506M-ND	7.35	55.70
	Tin	6 (1.83)	MC	C7FXT-1506M-ND	6.59	49.98
	Gold	6 (1.83)	GR	C7FXG-1506G-ND	6.62	50.20
	Tin	6 (1.83)	GR	C7FXT-1506G-ND	5.87	44.49
	Gold	10 (3.05)	MC	C7FXG-1510M-ND	8.90	67.45
	Tin	10 (3.05)	MC	C7FXT-1510M-ND	8.14	61.73
	Gold	10 (3.05)	GR	C7FXG-1510G-ND	7.69	58.28
	Tin	10 (3.05)	GR	C7FXT-1510G-ND	6.93	52.57
25	Gold	6 (1.83)	MC	C7FXG-2506M-ND	10.47	79.37
	Tin	6 (1.83)	MC	C7FXT-2506M-ND	9.45	71.62
	Gold	6 (1.83)	GR	C7FXG-2506G-ND	9.44	71.58
	Tin	6 (1.83)	GR	C7FXT-2506G-ND	8.42	63.83
	Gold	10 (3.05)	MC	C7FXG-2510M-ND	12.90	97.82
	Tin	10 (3.05)	MC	C7FXT-2510M-ND	11.88	90.06
	Gold	10 (3.05)	GR	C7FXG-2510G-ND	11.19	84.84
	Tin	10 (3.05)	GR	C7FXT-2510G-ND	10.17	77.08
37	Gold	6 (1.83)	MC	C7FXG-3706M-ND	15.42	116.88
	Tin	6 (1.83)	MC	C7FXT-3706M-ND	13.91	105.42
	Gold	6 (1.83)	GR	C7FXG-3706G-ND	14.10	106.87
	Tin	6 (1.83)	GR	C7FXT-3706G-ND	12.59	95.41
	Gold	10 (3.05)	MC	C7FXG-3710M-ND	18.98	143.88
	Tin	10 (3.05)	MC	C7FXT-3710M-ND	17.47	132.42
	Gold	10 (3.05)	GR	C7FXG-3710G-ND	16.78	127.19
	Tin	10 (3.05)	GR	C7FXT-3710G-ND	15.27	115.74

Also available in the following configuration:
C7SX□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Male to Male

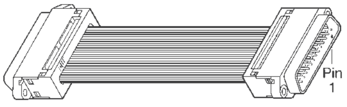

* MC = Multi-Color, GR = Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MMG-0906M-ND	7.99	60.59
	Tin	6 (1.83)	MC	C7MMT-0906M-ND	6.99	52.98
	Gold	6 (1.83)	GR	C7MMG-0906G-ND	7.76	58.83
	Tin	6 (1.83)	GR	C7MMT-0906G-ND	6.76	51.22
	Gold	10 (3.05)	MC	C7MMG-0910M-ND	8.86	67.15
	Tin	10 (3.05)	MC	C7MMT-0910M-ND	7.85	59.54
	Gold	10 (3.05)	GR	C7MMG-0910G-ND	8.47	64.21
	Tin	10 (3.05)	GR	C7MMT-0910G-ND	7.47	56.60
15	Gold	6 (1.83)	MC	C7MMG-1506M-ND	11.13	84.37
	Tin	6 (1.83)	MC	C7MMT-1506M-ND	9.81	74.35
	Gold	6 (1.83)	GR	C7MMG-1506G-ND	10.40	78.87
	Tin	6 (1.83)	GR	C7MMT-1506G-ND	9.08	68.86
	Gold	10 (3.05)	MC	C7MMG-1510M-ND	12.68	96.12
	Tin	10 (3.05)	MC	C7MMT-1510M-ND	11.36	86.10
	Gold	10 (3.05)	GR	C7MMG-1510G-ND	11.47	86.95
	Tin	10 (3.05)	GR	C7MMT-1510G-ND	10.15	76.94
25	Gold	6 (1.83)	MC	C7MMG-2506M-ND	15.49	117.44
	Tin	6 (1.83)	MC	C7MMT-2506M-ND	13.72	103.98
	Gold	6 (1.83)	GR	C7MMG-2506G-ND	14.46	109.65
	Tin	6 (1.83)	GR	C7MMT-2506G-ND	12.69	96.19
	Gold	10 (3.05)	MC	C7MMG-2510M-ND	17.93	135.89
	Tin	10 (3.05)	MC	C7MMT-2510M-ND	16.15	122.42
	Gold	10 (3.05)	GR	C7MMG-2510G-ND	16.21	122.91
	Tin	10 (3.05)	GR	C7MMT-2510G-ND	14.44	109.44
37	Gold	6 (1.83)	MC	C7MMG-3706M-ND	22.83	173.04
	Tin	6 (1.83)	MC	C7MMT-3706M-ND	20.20	153.16
	Gold	6 (1.83)	GR	C7MMG-3706G-ND	21.51	163.03
	Tin	6 (1.83)	GR	C7MMT-3706G-ND	18.88	143.15
	Gold	10 (3.05)	MC	C7MMG-3710M-ND	26.39	200.04
	Tin	10 (3.05)	MC	C7MMT-3710M-ND	23.77	180.16
	Gold	10 (3.05)	GR	C7MMG-3710G-ND	24.19	183.36
	Tin	10 (3.05)	GR	C7MMT-3710G-ND	21.57	163.48

Also available in the following configuration:
C7PP□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Female to Female

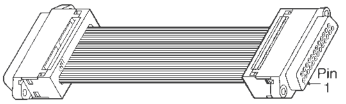

* MC = Multi-Color, GR = Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7FFG-0906M-ND	8.99	68.11
	Tin	6 (1.83)	MC	C7FFT-0906M-ND	7.83	59.37
	Gold	6 (1.83)	GR	C7FFG-0906G-ND	8.75	66.35
	Tin	6 (1.83)	GR	C7FFT-0906G-ND	7.60	57.61
	Gold	10 (3.05)	MC	C7FFG-0910M-ND	9.85	74.67
	Tin	10 (3.05)	MC	C7FFT-0910M-ND	8.70	65.93
	Gold	10 (3.05)	GR	C7FFG-0910G-ND	9.46	71.73
	Tin	10 (3.05)	GR	C7FFT-0910G-ND	8.31	62.99
15	Gold	6 (1.83)	MC	C7FFG-1506M-ND	12.37	93.77
	Tin	6 (1.83)	MC	C7FFT-1506M-ND	10.86	82.34
	Gold	6 (1.83)	GR	C7FFG-1506G-ND	11.64	88.27
	Tin	6 (1.83)	GR	C7FFT-1506G-ND	10.14	76.85
	Gold	10 (3.05)	MC	C7FFG-1510M-ND	13.92	105.52
	Tin	10 (3.05)	MC	C7FFT-1510M-ND	12.41	94.09
	Gold	10 (3.05)	GR	C7FFG-1510G-ND	12.71	96.35
	Tin	10 (3.05)	GR	C7FFT-1510G-ND	11.20	84.93
25	Gold	6 (1.83)	MC	C7FFG-2506M-ND	17.30	131.15
	Tin	6 (1.83)	MC	C7FFT-2506M-ND	15.24	115.56
	Gold	6 (1.83)	GR	C7FFG-2506G-ND	16.26	123.28
	Tin	6 (1.83)	GR	C7FFT-2506G-ND	14.22	107.77
	Gold	10 (3.05)	MC	C7FFG-2510M-ND	19.72	149.52
	Tin	10 (3.05)	MC	C7FFT-2510M-ND	17.68	134.01
	Gold	10 (3.05)	GR	C7FFG-2510G-ND	18.01	136.54
	Tin	10 (3.05)	GR	C7FFT-2510G-ND	15.97	121.03
37	Gold	6 (1.83)	MC	C7FFG-3706M-ND	25.49	193.25
	Tin	6 (1.83)	MC	C7FFT-3706M-ND	22.47	170.34
	Gold	6 (1.83)	GR	C7FFG-3706G-ND	24.17	183.24
	Tin	6 (1.83)	GR	C7FFT-3706G-ND	21.15	160.33
	Gold	10 (3.05)	MC	C7FFG-3710M-ND	29.05	220.25
	Tin	10 (3.05)	MC	C7FFT-3710M-ND	26.03	197.34
	Gold	10 (3.05)	GR	C7FFG-3710G-ND	26.85	203.57
	Tin	10 (3.05)	GR	C7FFT-3710G-ND	23.83	180.66

Also available in the following configuration:
C7SS□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

Male to Female

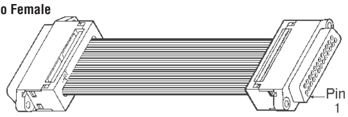

* MC = Multi-Color, GR = Gray

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
Using Plastic Shell Connectors						
9	Gold	6 (1.83)	MC	C7MFG-0906M-ND	8.49	64.35
	Tin	6 (1.83)	MC	C7MFT-0906M-ND	7.41	56.18
	Gold	6 (1.83)	GR	C7MFG-0906G-ND	8.26	62.59
	Tin	6 (1.83)	GR	C7MFT-0906G-ND	7.18	54.41
	Gold	10 (3.05)	MC	C7MFG-0910M-ND	9.35	70.91
	Tin	10 (3.05)	MC	C7MFT-0910M-ND	8.28	62.73
	Gold	10 (3.05)	GR	C7MFG-0910G-ND	8.97	67.97
	Tin	10 (3.05)	GR	C7MFT-0910G-ND	7.89	59.80
15	Gold	6 (1.83)	MC	C7MFG-1506M-ND	11.75	89.07
	Tin	6 (1.83)	MC	C7MFT-1506M-ND	10.34	78.35
	Gold	6 (1.83)	GR	C7MFG-1506G-ND	11.02	83.57
	Tin	6 (1.83)	GR	C7MFT-1506G-ND	9.61	72.85
	Gold	10 (3.05)	MC	C7MFG-1510M-ND	13.30	100.82
	Tin	10 (3.05)	MC	C7MFT-1510M-ND	11.89	90.10
	Gold	10 (3.05)	GR	C7MFG-1510G-ND	12.09	91.65
	Tin	10 (3.05)	GR	C7MFT-1510G-ND	10.68	80.93
25	Gold	6 (1.83)	MC	C7MFG-2506M-ND	16.39	124.26
	Tin	6 (1.83)	MC	C7MFT-2506M-ND	14.48	109.77
	Gold	6 (1.83)	GR	C7MFG-2506G-ND	15.36	116.47
	Tin	6 (1.83)	GR	C7MFT-2506G-ND	13.45	101.98
	Gold	10 (3.05)	MC	C7MFG-2510M-ND	18.82	142.70
	Tin	10 (3.05)	MC	C7MFT-2510M-ND	16.91	128.22
	Gold	10 (3.05)	GR	C7MFG-2510G-ND	17.11	129.72
	Tin	10 (3.05)	GR	C7MFT-2510G-ND	15.20	115.23
37	Gold	6 (1.83)	MC	C7MFG-3706M-ND	24.16	183.15
	Tin	6 (1.83)	MC	C7MFT-3706M-ND	21.34	161.75
	Gold	6 (1.83)	GR	C7MFG-3706G-ND	22.84	173.14
	Tin	6 (1.83)	GR	C7MFT-3706G-ND	20.02	151.74
	Gold	10 (3.05)	MC	C7MFG-3710M-ND	27.72	210.15
	Tin	10 (3.05)	MC	C7MFT-3710M-ND	24.90	188.75
	Gold	10 (3.05)	GR	C7MFG-3710G-ND	25.52	193.46
	Tin	10 (3.05)	GR	C7MFT-3710G-ND	22.70	172.07

Also available in the following configuration:
C7PS□-□□□□□-ND — With Metal Face Connector.
Call for complete part number and pricing!

CW INDUSTRIES

DIP Connectors

No. of Pins	Dimensions – In. (mm)		
	A	B	C
14	.42 (10.67)	.754 (19.15)	.300 (7.62)
16	.42 (10.67)	.854 (21.69)	.300 (7.62)
24	.72 (18.29)	1.264 (32.11)	.600 (15.24)
40	.72 (18.29)	2.067 (52.50)	.600 (15.24)

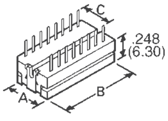

SPECIFICATIONS: • **Contacts:** phosphor bronze • **Contact Plating:** Gold – 10μ inch gold over 50μ inch nickel; Tin – 100μ inch tin-lead • **Insulator Material:** UL 94V 0 retardant glass-filled thermoplastic • **Strain Relief Strap Material:** Tin-plated steel • **Color:** Blue • **Operating Temperature:** -55°C ~ 125°C • **Current Rating:** 1A (maximum) per contact • **Dielectric Withstand Voltage:** Greater than 500Vdc at sea level • **Insulation Resistance:** Greater than 5 x $10^9\Omega$ • Mates with .050" (1.27mm) centered round conductor flat cable and standard Dip socket with .100" x .300" or .100" x .600" (2.54mm x 7.62mm or 2.54mm x 15.24mm) contact spacing • Cover pull-off force, with strain relief 20 pound (7.46kg) minimum (force along contacts' primary axis)

No. of Contacts	Contact Finish	Digi-Key Part No.	Pricing			
			1	10	100	1,000
DIP Connectors — .175" (4.44mm) Pin Length						
14	Gold	CDP14G-ND	1.61	12.22	93.60	676.00
14	Tin	CDP14T-ND	1.37	10.39	79.56	574.60
16	Gold	CDP16G-ND	1.71	12.93	99.00	715.00
16	Tin	CDP16T-ND	1.45	10.99	84.15	607.75
24	Gold	CDP24G-ND	2.82	21.39	163.80	1183.00
24	Tin	CDP24T-ND	2.40	18.18	139.23	1005.55
40	Gold	CDP40G-ND	4.06	30.79	235.80	1703.00
40	Tin	CDP40T-ND	3.45	26.17	200.43	1447.55
Strain Relief Straps For DIP Connectors						
14	—	CDSR14-ND	.16	1.18	9.00	65.00
16	—	CDSR16-ND	.19	1.41	10.80	78.00
24	—	CDSR24-ND	.22	1.65	12.60	91.00
40	—	CDSR40-ND	.25	1.88	14.40	104.00

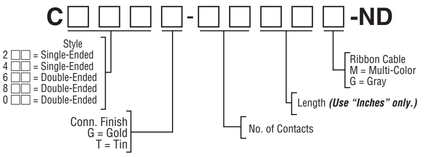

Single Ended
Style 2

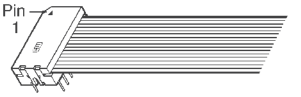

* MC = Multi Color, GR = Gray   Dip connector without strain relief shown.

Pin #1 on connector is connected to 2nd conductor on cable

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing	
					1	10
14	Gold	6 (15.24)	MC	C2PXG-1406M-ND	1.78	13.51
	Tin	6 (15.24)	MC	C2PXT-1406M-ND	1.54	11.67
	Gold	6 (15.24)	GR	C2PXG-1406G-ND	1.73	13.11
	Tin	6 (15.24)	GR	C2PXT-1406G-ND	1.49	11.28
	Gold	18 (45.72)	MC	C2PXG-1418M-ND	2.12	16.08
	Tin	18 (45.72)	MC	C2PXT-1418M-ND	1.88	14.25
	Gold	18 (45.72)	GR	C2PXG-1418G-ND	1.97	14.90
	Tin	18 (45.72)	GR	C2PXT-1418G-ND	1.72	13.07
	Gold	36 (91.44)	MC	C2PXG-1436M-ND	2.63	19.94
	Tin	36 (91.44)	MC	C2PXT-1436M-ND	2.39	18.11
	Gold	36 (91.44)	GR	C2PXG-1436G-ND	2.32	17.58
	Tin	36 (91.44)	GR	C2PXT-1436G-ND	2.08	15.75
16	Gold	6 (15.24)	MC	C2PXG-1606M-ND	1.90	14.39
	Tin	6 (15.24)	MC	C2PXT-1606M-ND	1.64	12.46
	Gold	6 (15.24)	GR	C2PXG-1606G-ND	1.84	13.94
	Tin	6 (15.24)	GR	C2PXT-1606G-ND	1.58	12.00
	Gold	18 (45.72)	MC	C2PXG-1618M-ND	2.29	17.33
	Tin	18 (45.72)	MC	C2PXT-1618M-ND	2.03	15.39
	Gold	18 (45.72)	GR	C2PXG-1618G-ND	2.10	15.96
	Tin	18 (45.72)	GR	C2PXT-1618G-ND	1.85	14.02
	Gold	36 (91.44)	MC	C2PXG-1636M-ND	2.87	21.74
	Tin	36 (91.44)	MC	C2PXT-1636M-ND	2.61	19.80
	Gold	36 (91.44)	GR	C2PXG-1636G-ND	2.50	18.99
	Tin	36 (91.44)	GR	C2PXT-1636G-ND	2.25	17.05
24	Gold	6 (15.24)	MC	C2PXG-2406M-ND	3.11	23.59
	Tin	6 (15.24)	MC	C2PXT-2406M-ND	2.69	20.39
	Gold	6 (15.24)	GR	C2PXG-2406G-ND	3.02	22.90
	Tin	6 (15.24)	GR	C2PXT-2406G-ND	2.60	19.69
	Gold	18 (45.72)	MC	C2PXG-2418M-ND	3.70	28.01
	Tin	18 (45.72)	MC	C2PXT-2418M-ND	3.27	24.80
	Gold	18 (45.72)	GR	C2PXG-2418G-ND	3.42	25.93
	Tin	18 (45.72)	GR	C2PXT-2418G-ND	3.00	22.72
	Gold	36 (91.44)	MC	C2PXG-2436M-ND	4.57	34.64
	Tin	36 (91.44)	MC	C2PXT-2436M-ND	4.15	31.43
	Gold	36 (91.44)	GR	C2PXG-2436G-ND	4.02	30.48
	Tin	36 (91.44)	GR	C2PXT-2436G-ND	3.60	27.27
40	Gold	6 (15.24)	MC	C2PXG-4006M-ND	4.55	34.46
	Tin	6 (15.24)	MC	C2PXT-4006M-ND	3.94	29.85
	Gold	6 (15.24)	GR	C2PXG-4006G-ND	4.40	33.33
	Tin	6 (15.24)	GR	C2PXT-4006G-ND	3.79	28.71
	Gold	18 (45.72)	MC	C2PXG-4018M-ND	5.52	41.82
	Tin	18 (45.72)	MC	C2PXT-4018M-ND	4.91	37.20
	Gold	18 (45.72)	GR	C2PXG-4018G-ND	5.07	38.41
	Tin	18 (45.72)	GR	C2PXT-4018G-ND	4.46	33.79
	Gold	36 (91.44)	MC	C2PXG-4036M-ND	6.97	52.85
	Tin	36 (91.44)	MC	C2PXT-4036M-ND	6.36	48.23
	Gold	36 (91.44)	GR	C2PXG-4036G-ND	6.07	46.03
	Tin	36 (91.44)	GR	C2PXT-4036G-ND	5.46	41.41

Also available in the following version:
C2RX□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Single Ended
Style 4

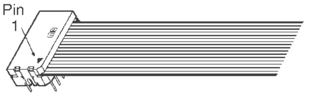

* MC = Multi Color, GR = Gray   Dip connector without strain relief shown.

Pin #1 on connector is connected to 2nd conductor on cable

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing	
					1	10
14	Gold	6 (15.24)	MC	C4PXG-1406M-ND	1.78	13.51
	Tin	6 (15.24)	MC	C4PXT-1406M-ND	1.54	11.67
	Gold	6 (15.24)	GR	C4PXG-1406G-ND	1.73	13.11
	Tin	6 (15.24)	GR	C4PXT-1406G-ND	1.49	11.28
	Gold	18 (45.72)	MC	C4PXG-1418M-ND	2.12	16.08
	Tin	18 (45.72)	MC	C4PXT-1418M-ND	1.88	14.25
	Gold	18 (45.72)	GR	C4PXG-1418G-ND	1.97	14.90
	Tin	18 (45.72)	GR	C4PXT-1418G-ND	1.72	13.07
	Gold	36 (91.44)	MC	C4PXG-1436M-ND	2.63	19.94
	Tin	36 (91.44)	MC	C4PXT-1436M-ND	2.39	18.11
	Gold	36 (91.44)	GR	C4PXG-1436G-ND	2.32	17.58
	Tin	36 (91.44)	GR	C4PXT-1436G-ND	2.08	15.75
16	Gold	6 (15.24)	MC	C4PXG-1606M-ND	1.90	14.39
	Tin	6 (15.24)	MC	C4PXT-1606M-ND	1.64	12.46
	Gold	6 (15.24)	GR	C4PXG-1606G-ND	1.84	13.94
	Tin	6 (15.24)	GR	C4PXT-1606G-ND	1.58	12.00
	Gold	18 (45.72)	MC	C4PXG-1618M-ND	2.29	17.33
	Tin	18 (45.72)	MC	C4PXT-1618M-ND	2.03	15.39
	Gold	18 (45.72)	GR	C4PXG-1618G-ND	2.10	15.96
	Tin	18 (45.72)	GR	C4PXT-1618G-ND	1.85	14.02
	Gold	36 (91.44)	MC	C4PXG-1636M-ND	2.87	21.74
	Tin	36 (91.44)	MC	C4PXT-1636M-ND	2.61	19.80
	Gold	36 (91.44)	GR	C4PXG-1636G-ND	2.50	18.99
	Tin	36 (91.44)	GR	C4PXT-1636G-ND	2.25	17.05
24	Gold	6 (15.24)	MC	C4PXG-2406M-ND	3.11	23.59
	Tin	6 (15.24)	MC	C4PXT-2406M-ND	2.69	20.39
	Gold	6 (15.24)	GR	C4PXG-2406G-ND	3.02	22.90
	Tin	6 (15.24)	GR	C4PXT-2406G-ND	2.60	19.69
	Gold	18 (45.72)	MC	C4PXG-2418M-ND	3.70	28.01
	Tin	18 (45.72)	MC	C4PXT-2418M-ND	3.27	24.80
	Gold	18 (45.72)	GR	C4PXG-2418G-ND	3.42	25.93
	Tin	18 (45.72)	GR	C4PXT-2418G-ND	3.00	22.72
	Gold	36 (91.44)	MC	C4PXG-2436M-ND	4.57	34.64
	Tin	36 (91.44)	MC	C4PXT-2436M-ND	4.15	31.43
	Gold	36 (91.44)	GR	C4PXG-2436G-ND	4.02	30.48
	Tin	36 (91.44)	GR	C4PXT-2436G-ND	3.60	27.27
40	Gold	6 (15.24)	MC	C4PXG-4006M-ND	4.55	34.46
	Tin	6 (15.24)	MC	C4PXT-4006M-ND	3.94	29.85
	Gold	6 (15.24)	GR	C4PXG-4006G-ND	4.40	33.33
	Tin	6 (15.24)	GR	C4PXT-4006G-ND	3.79	28.71
	Gold	18 (45.72)	MC	C4PXG-4018M-ND	5.52	41.82
	Tin	18 (45.72)	MC	C4PXT-4018M-ND	4.91	37.20
	Gold	18 (45.72)	GR	C4PXG-4018G-ND	5.07	38.41
	Tin	18 (45.72)	GR	C4PXT-4018G-ND	4.46	33.79
	Gold	36 (91.44)	MC	C4PXG-4036M-ND	6.97	52.85
	Tin	36 (91.44)	MC	C4PXT-4036M-ND	6.36	48.23
	Gold	36 (91.44)	GR	C4PXG-4036G-ND	6.07	46.03
	Tin	36 (91.44)	GR	C4PXT-4036G-ND	5.46	41.41

Also available in the following version:
C4RX□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Double Ended
Style 6

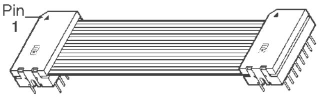

* MC = Multi Color, GR = Gray   Dip connector without strain relief shown.

Pin #1 on connector is connected to 2nd conductor on cable

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing	
					1	10
14	Gold	6 (15.24)	MC	C6PPG-1406M-ND	3.39	25.73
	Tin	6 (15.24)	MC	C6PPT-1406M-ND	2.91	22.06
	Gold	6 (15.24)	GR	C6PPG-1406G-ND	3.34	25.33
	Tin	6 (15.24)	GR	C6PPT-1406G-ND	2.86	21.67
	Gold	18 (45.72)	MC	C6PPG-1418M-ND	3.73	28.30
	Tin	18 (45.72)	MC	C6PPT-1418M-ND	3.25	24.64
	Gold	18 (45.72)	GR	C6PPG-1418G-ND	3.58	27.12
	Tin	18 (45.72)	GR	C6PPT-1418G-ND	3.09	23.45
	Gold	36 (91.44)	MC	C6PPG-1436M-ND	4.24	32.16
	Tin	36 (91.44)	MC	C6PPT-1436M-ND	3.76	28.49
	Gold	36 (91.44)	GR	C6PPG-1436G-ND	3.93	29.80
	Tin	36 (91.44)	GR	C6PPT-1436G-ND	3.45	26.13
16	Gold	6 (15.24)	MC	C6PPG-1606M-ND	3.60	27.32
	Tin	6 (15.24)	MC	C6PPT-1606M-ND	3.09	23.44
	Gold	6 (15.24)	GR	C6PPG-1606G-ND	3.54	26.86
	Tin	6 (15.24)	GR	C6PPT-1606G-ND	3.03	22.98
	Gold	18 (45.72)	MC	C6PPG-1618M-ND	4.01	30.41
	Tin	18 (45.72)	MC	C6PPT-1618M-ND	3.48	26.38
	Gold	18 (45.72)	GR	C6PPG-1618G-ND	3.81	28.88
	Tin	18 (45.72)	GR	C6PPT-1618G-ND	3.30	25.00
	Gold	36 (91.44)	MC	C6PPG-1636M-ND	4.57	34.66
	Tin	36 (91.44)	MC	C6PPT-1636M-ND	4.06	30.79
	Gold	36 (91.44)	GR	C6PPG-1636G-ND	4.21	31.91
	Tin	36 (91.44)	GR	C6PPT-1636G-ND	3.70	28.04
24	Gold	6 (15.24)	MC	C6PPG-2406M-ND	5.93	44.98
	Tin	6 (15.24)	MC	C6PPT-2406M-ND	5.09	38.56
	Gold	6 (15.24)	GR	C6PPG-2406G-ND	5.84	44.29
	Tin	6 (15.24)	GR	C6PPT-2406G-ND	5.00	37.87
	Gold	18 (45.72)	MC	C6PPG-2418M-ND	6.52	49.40
	Tin	18 (45.72)	MC	C6PPT-2418M-ND	5.67	42.98
	Gold	18 (45.72)	GR	C6PPG-2418G-ND	6.24	47.32
	Tin	18 (45.72)	GR	C6PPT-2418G-ND	5.40	40.90
	Gold	36 (91.44)	MC	C6PPG-2436M-ND	7.39	56.02
	Tin	36 (91.44)	MC	C6PPT-2436M-ND	6.54	49.61
	Gold	36 (91.44)	GR	C6PPG-2436G-ND	6.84	51.86
	Tin	36 (91.44)	GR	C6PPT-2436G-ND	6.00	45.45
40	Gold	6 (15.24)	MC	C6PPG-4006M-ND	8.61	65.25
	Tin	6 (15.24)	MC	C6PPT-4006M-ND	7.39	56.01
	Gold	6 (15.24)	GR	C6PPG-4006G-ND	8.46	64.11
	Tin	6 (15.24)	GR	C6PPT-4006G-ND	7.24	54.87
	Gold	18 (45.72)	MC	C6PPG-4018M-ND	9.58	72.60
	Tin	18 (45.72)	MC	C6PPT-4018M-ND	8.36	63.37
	Gold	18 (45.72)	GR	C6PPG-4018G-ND	9.13	69.19
	Tin	18 (45.72)	GR	C6PPT-4018G-ND	7.91	59.96
	Gold	36 (91.44)	MC	C6PPG-4036M-ND	11.03	83.64
	Tin	36 (91.44)	MC	C6PPT-4036M-ND	9.81	74.40
	Gold	36 (91.44)	GR	C6PPG-4036G-ND	10.13	76.82
	Tin	36 (91.44)	GR	C6PPT-4036G-ND	8.91	67.58

Also available in the following version:
C6RR□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Double Ended
Style 8

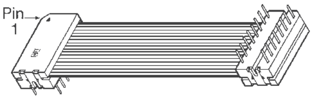

* MC = Multi Color, GR = Gray   Dip connector without strain relief shown.

Pin #1 on connector is connected to 2nd conductor on cable

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing	
					1	10
14	Gold	6 (15.24)	MC	C8PPG-1406M-ND	3.39	25.73
	Tin	6 (15.24)	MC	C8PPT-1406M-ND	2.91	22.06
	Gold	6 (15.24)	GR	C8PPG-1406G-ND	3.34	25.33
	Tin	6 (15.24)	GR	C8PPT-1406G-ND	2.86	21.67
	Gold	18 (45.72)	MC	C8PPG-1418M-ND	3.73	28.30
	Tin	18 (45.72)	MC	C8PPT-1418M-ND	3.25	24.64
	Gold	18 (45.72)	GR	C8PPG-1418G-ND	3.58	27.12
	Tin	18 (45.72)	GR	C8PPT-1418G-ND	3.09	23.45
	Gold	36 (91.44)	MC	C8PPG-1436M-ND	4.24	32.16
	Tin	36 (91.44)	MC	C8PPT-1436M-ND	3.76	28.49
	Gold	36 (91.44)	GR	C8PPG-1436G-ND	3.93	29.80
	Tin	36 (91.44)	GR	C8PPT-1436G-ND	3.45	26.13
16	Gold	6 (15.24)	MC	C8PPG-1606M-ND	3.60	27.32
	Tin	6 (15.24)	MC	C8PPT-1606M-ND	3.09	23.44
	Gold	6 (15.24)	GR	C8PPG-1606G-ND	3.54	26.86
	Tin	6 (15.24)	GR	C8PPT-1606G-ND	3.03	22.98
	Gold	18 (45.72)	MC	C8PPG-1618M-ND	3.99	30.26
	Tin	18 (45.72)	MC	C8PPT-1618M-ND	3.48	26.38
	Gold	18 (45.72)	GR	C8PPG-1618G-ND	3.81	28.88
	Tin	18 (45.72)	GR	C8PPT-1618G-ND	3.30	25.00
	Gold	36 (91.44)	MC	C8PPG-1636M-ND	4.57	34.66
	Tin	36 (91.44)	MC	C8PPT-1636M-ND	4.06	30.79
	Gold	36 (91.44)	GR	C8PPG-1636G-ND	4.21	31.91
	Tin	36 (91.44)	GR	C8PPT-1636G-ND	3.70	28.04
24	Gold	6 (15.24)	MC	C8PPG-2406M-ND	5.93	44.98
	Tin	6 (15.24)	MC	C8PPT-2406M-ND	5.09	38.56
	Gold	6 (15.24)	GR	C8PPG-2406G-ND	5.84	44.29
	Tin	6 (15.24)	GR	C8PPT-2406G-ND	5.00	37.87
	Gold	18 (45.72)	MC	C8PPG-2418M-ND	6.52	49.40
	Tin	18 (45.72)	MC	C8PPT-2418M-ND	5.67	42.98
	Gold	18 (45.72)	GR	C8PPG-2418G-ND	6.24	47.32
	Tin	18 (45.72)	GR	C8PPT-2418G-ND	5.40	40.90
	Gold	36 (91.44)	MC	C8PPG-2436M-ND	7.39	56.02
	Tin	36 (91.44)	MC	C8PPT-2436M-ND	6.54	49.61
	Gold	36 (91.44)	GR	C8PPG-2436G-ND	6.84	51.86
	Tin	36 (91.44)	GR	C8PPT-2436G-ND	6.00	45.45
40	Gold	6 (15.24)	MC	C8PPG-4006M-ND	8.61	65.25
	Tin	6 (15.24)	MC	C8PPT-4006M-ND	7.39	56.01
	Gold	6 (15.24)	GR	C8PPG-4006G-ND	8.46	64.11
	Tin	6 (15.24)	GR	C8PPT-4006G-ND	7.24	54.87
	Gold	18 (45.72)	MC	C8PPG-4018M-ND	9.58	72.60
	Tin	18 (45.72)	MC	C8PPT-4018M-ND	8.36	63.37
	Gold	18 (45.72)	GR	C8PPG-4018G-ND	9.13	69.19
	Tin	18 (45.72)	GR	C8PPT-4018G-ND	7.91	59.96
	Gold	36 (91.44)	MC	C8PPG-4036M-ND	11.03	83.64
	Tin	36 (91.44)	MC	C8PPT-4036M-ND	9.81	74.40
	Gold	36 (91.44)	GR	C8PPG-4036G-ND	10.13	76.82
	Tin	36 (91.44)	GR	C8PPT-4036G-ND	8.91	67.58

Also available in the following version:
C8RR□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

Double Ended
Style 0

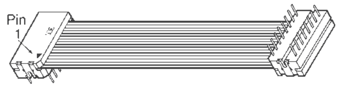

* MC = Multi Color, GR = Gray   Dip connector without strain relief shown.

Pin #1 on connector is connected to 2nd conductor on cable

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Pricing	
					1	10
14	Gold	6 (15.24)	MC	C0PPG-1406M-ND	3.39	25.73
	Tin	6 (15.24)	MC	C0PPT-1406M-ND	2.91	22.06
	Gold	6 (15.24)	GR	C0PPG-1406G-ND	3.34	25.33
	Tin	6 (15.24)	GR	C0PPT-1406G-ND	2.86	21.67
	Gold	18 (45.72)	MC	C0PPG-1418M-ND	3.73	28.30
	Tin	18 (45.72)	MC	C0PPT-1418M-ND	3.25	24.64
	Gold	18 (45.72)	GR	C0PPG-1418G-ND	3.58	27.12
	Tin	18 (45.72)	GR	C0PPT-1418G-ND	3.09	23.45
	Gold	36 (91.44)	MC	C0PPG-1436M-ND	4.24	32.16
	Tin	36 (91.44)	MC	C0PPT-1436M-ND	3.76	28.49
	Gold	36 (91.44)	GR	C0PPG-1436G-ND	3.93	29.80
	Tin	36 (91.44)	GR	C0PPT-1436G-ND	3.45	26.13
16	Gold	6 (15.24)	MC	C0PPG-1606M-ND	3.62	27.45
	Tin	6 (15.24)	MC	C0PPT-1606M-ND	3.09	23.44
	Gold	6 (15.24)	GR	C0PPG-1606G-ND	3.54	26.86
	Tin	6 (15.24)	GR	C0PPT-1606G-ND	3.03	22.98
	Gold	18 (45.72)	MC	C0PPG-1618M-ND	3.99	30.26
	Tin	18 (45.72)	MC	C0PPT-1618M-ND	3.48	26.38
	Gold	18 (45.72)	GR	C0PPG-1618G-ND	3.81	28.88
	Tin	18 (45.72)	GR	C0PPT-1618G-ND	3.30	25.00
	Gold	36 (91.44)	MC	C0PPG-1636M-ND	4.57	34.66
	Tin	36 (91.44)	MC	C0PPT-1636M-ND	4.06	30.79
	Gold	36 (91.44)	GR	C0PPG-1636G-ND	4.21	31.91
	Tin	36 (91.44)	GR	C0PPT-1636G-ND	3.70	28.04
24	Gold	6 (15.24)	MC	C0PPG-2406M-ND	5.93	44.98
	Tin	6 (15.24)	MC	C0PPT-2406M-ND	5.09	38.56
	Gold	6 (15.24)	GR	C0PPG-2406G-ND	5.84	44.29
	Tin	6 (15.24)	GR	C0PPT-2406G-ND	5.00	37.87
	Gold	18 (45.72)	MC	C0PPG-2418M-ND	6.52	49.40
	Tin	18 (45.72)	MC	C0PPT-2418M-ND	5.67	42.98
	Gold	18 (45.72)	GR	C0PPG-2418G-ND	6.24	47.32
	Tin	18 (45.72)	GR	C0PPT-2418G-ND	5.40	40.90
	Gold	36 (91.44)	MC	C0PPG-2436M-ND	7.39	56.02
	Tin	36 (91.44)	MC	C0PPT-2436M-ND	6.54	49.61
	Gold	36 (91.44)	GR	C0PPG-2436G-ND	6.84	51.86
	Tin	36 (91.44)	GR	C0PPT-2436G-ND	6.00	45.45
40	Gold	6 (15.24)	MC	C0PPG-4006M-ND	8.61	65.25
	Tin	6 (15.24)	MC	C0PPT-4006M-ND	7.39	56.01
	Gold	6 (15.24)	GR	C0PPG-4006G-ND	8.46	64.11
	Tin	6 (15.24)	GR	C0PPT-4006G-ND	7.24	54.87
	Gold	18 (45.72)	MC	C0PPG-4018M-ND	9.58	72.60
	Tin	18 (45.72)	MC	C0PPT-4018M-ND	8.36	63.37
	Gold	18 (45.72)	GR	C0PPG-4018G-ND	9.13	69.19
	Tin	18 (45.72)	GR	C0PPT-4018G-ND	7.91	59.96
	Gold	36 (91.44)	MC	C0PPG-4036M-ND	11.03	83.64
	Tin	36 (91.44)	MC	C0PPT-4036M-ND	9.81	74.40
	Gold	36 (91.44)	GR	C0PPG-4036G-ND	10.13	76.82
	Tin	36 (91.44)	GR	C0PPT-4036G-ND	8.91	67.58

Also available in the following version:
C0RR□-□□□□□-ND — Dip Connector with Strain Relief Strap.
Call for complete part number and pricing!

CW INDUSTRIES

Socket Connectors

Socket Connector

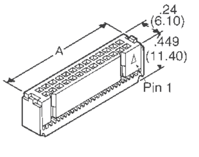

Socket Connector with Central Polarizing Key

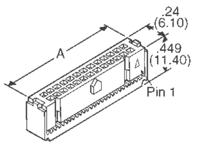

Socket Connector with Strain Relief

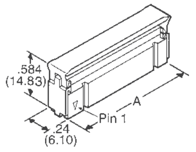

Socket Connector with Strain Relief and Central Polarizing Key

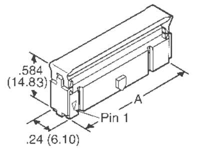

- **Contacts:** Phosphor bronze
- **Contact Plating:** Gold – 10μ inch gold (in mating area) over 50μ inch nickel. Tin – 100μ inch tin-lead
- **Insulator Material:** UL 94V-0 flame-retardant thermoplastic
- **Strain Relief Strap Material:** Insulated stainless steel
- **Color:** Blue
- **Operating Temperature:** -55°C ~ 125°C
- **Current Rating:** 1A (maximum) per contact
- **Dielectric Withstand Voltage:** Greater than 500VDC at sea level
- **Insulation Resistance:** Greater than 5x10^9 Ω
- Withdrawal force 56.70g – 226.79g/contact, typical.
- Cover pull-off force 226.79g/contact, minimum (force along contacts' primary axis)

No. of Cont.	Cont. Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100
Socket Connector						
10	Gold	.677 (17.20)	CSC10G-ND	1.12	.85	.65
	Tin	.677 (17.20)	CSC10T-ND	.95	.72	.56
14	Gold	.877 (22.28)	CSC14G-ND	1.58	1.20	.92
	Tin	.877 (22.28)	CSC14T-ND	1.34	1.02	.79
16	Gold	.977 (24.82)	CSC16G-ND	1.83	1.39	1.07
	Tin	.977 (24.82)	CSC16T-ND	1.55	1.18	.91
20	Gold	1.177 (29.90)	CSC20G-ND	1.92	1.46	1.12
	Tin	1.177 (29.90)	CSC20T-ND	1.63	1.24	.95
26	Gold	1.477 (37.52)	CSC26G-ND	2.29	1.74	1.34
	Tin	1.477 (37.52)	CSC26T-ND	1.95	1.48	1.14
34	Gold	1.877 (47.68)	CSC34G-ND	2.82	2.14	1.64
	Tin	1.877 (47.68)	CSC34T-ND	2.40	1.82	1.40
40	Gold	2.177 (55.30)	CSC40G-ND	3.10	2.35	1.80
	Tin	2.177 (55.30)	CSC40T-ND	2.64	2.00	1.53
50	Gold	2.677 (68.00)	CSC50G-ND	3.72	2.82	2.16
	Tin	2.677 (68.00)	CSC50T-ND	3.16	2.40	1.84
60	Gold	3.177 (80.70)	CSC60G-ND	4.53	3.44	2.63
	Tin	3.177 (80.70)	CSC60T-ND	3.85	2.92	2.24
Socket Connector With Strain Relief						
10	Gold	.677 (17.20)	CSR10G-ND	1.36	1.04	.80
	Tin	.677 (17.20)	CSR10T-ND	1.16	.88	.68
14	Gold	.877 (22.28)	CSR14G-ND	1.83	1.39	1.07
	Tin	.877 (22.28)	CSR14T-ND	1.55	1.18	.91
16	Gold	.977 (24.82)	CSR16G-ND	2.05	1.56	1.19
	Tin	.977 (24.82)	CSR16T-ND	1.74	1.32	1.01
20	Gold	1.177 (29.90)	CSR20G-ND	2.14	1.63	1.25
	Tin	1.177 (29.90)	CSR20T-ND	1.82	1.38	1.06
26	Gold	1.477 (37.52)	CSR26G-ND	2.48	1.88	1.44
	Tin	1.477 (37.52)	CSR26T-ND	2.11	1.60	1.23
34	Gold	1.877 (47.68)	CSR34G-ND	3.04	2.31	1.77
	Tin	1.877 (47.68)	CSR34T-ND	2.58	1.96	1.50
40	Gold	2.177 (55.30)	CSR40G-ND	3.29	2.50	1.91
	Tin	2.177 (55.30)	CSR40T-ND	2.79	2.12	1.63
50	Gold	2.677 (68.00)	CSR50G-ND	3.94	2.99	2.29
	Tin	2.677 (68.00)	CSR50T-ND	3.35	2.54	1.95
60	Gold	3.177 (80.70)	CSR60G-ND	4.77	3.62	2.78
	Tin	3.177 (80.70)	CSR60T-ND	4.06	3.08	2.36
Socket Connector With Polarizing Key						
10	Gold	.677 (17.20)	CKC10G-ND	1.12	.85	.65
	Tin	.677 (17.20)	CKC10T-ND	.95	.72	.56
14	Gold	.877 (22.28)	CKC14G-ND	1.58	1.20	.92
	Tin	.877 (22.28)	CKC14T-ND	1.34	1.02	.79
16	Gold	.977 (24.82)	CKC16G-ND	1.83	1.39	1.07
	Tin	.977 (24.82)	CKC16T-ND	1.55	1.18	.91
20	Gold	1.177 (29.90)	CKC20G-ND	1.92	1.46	1.12
	Tin	1.177 (29.90)	CKC20T-ND	1.63	1.24	.95
26	Gold	1.477 (37.52)	CKC26G-ND	2.29	1.74	1.34
	Tin	1.477 (37.52)	CKC26T-ND	1.95	1.48	1.14
Socket Connector with Polarizing Key (Cont.)						
34	Gold	1.877 (47.68)	CKC34G-ND	2.82	2.14	1.64
	Tin	1.877 (47.68)	CKC34T-ND	2.40	1.82	1.40
40	Gold	2.177 (55.30)	CKC40G-ND	3.10	2.35	1.80
	Tin	2.177 (55.30)	CKC40T-ND	2.64	2.00	1.53
50	Gold	2.677 (68.00)	CKC50G-ND	3.72	2.82	2.16
	Tin	2.677 (68.00)	CKC50T-ND	3.16	2.40	1.84
60	Gold	3.177 (80.70)	CKC60G-ND	4.53	3.44	2.63
	Tin	3.177 (80.70)	CKC60T-ND	3.85	2.92	2.24
Socket Connector w/Polarizing Key and Strain Relief						
10	Gold	.677 (17.20)	CKR10G-ND	1.36	1.04	.80
	Tin	.677 (17.20)	CKR10T-ND	1.16	.88	.68
14	Gold	.877 (22.28)	CKR14G-ND	1.83	1.39	1.07
	Tin	.877 (22.28)	CKR14T-ND	1.55	1.18	.91
16	Gold	.977 (24.82)	CKR16G-ND	2.05	1.56	1.19
	Tin	.977 (24.82)	CKR16T-ND	1.74	1.32	1.01
20	Gold	1.177 (29.90)	CKR20G-ND	2.14	1.63	1.25
	Tin	1.177 (29.90)	CKR20T-ND	1.82	1.38	1.06
26	Gold	1.477 (37.52)	CKR26G-ND	2.48	1.88	1.44
	Tin	1.477 (37.52)	CKR26T-ND	2.11	1.60	1.23
34	Gold	1.877 (47.68)	CKR34G-ND	3.04	2.31	1.77
	Tin	1.877 (47.68)	CKR34T-ND	2.58	1.96	1.50
40	Gold	2.177 (55.30)	CKR40G-ND	3.29	2.50	1.91
	Tin	2.177 (55.30)	CKR40T-ND	2.79	2.12	1.63
50	Gold	2.677 (68.00)	CKR50G-ND	3.94	2.99	2.29
	Tin	2.677 (68.00)	CKR50T-ND	3.35	2.54	1.95
60	Gold	3.177 (80.70)	CKR60G-ND	4.77	3.62	2.78
	Tin	3.177 (80.70)	CKR60T-ND	4.06	3.08	2.36
Polarizing Key			PK-1-ND	.22/2	.86/10	6.30/100

PCB Connectors

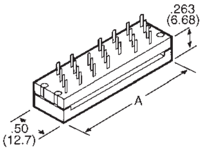

- **Contacts:** Phosphor bronze
- **Contact Plating:** Tin – 100μ in tin-lead
- **Insulator Material:** UL 94V-0 flame-retardant thermoplastic
- **Color:** Blue
- **Operating Temperature:** -55°C ~ 125°C
- **Current Rating:** 1A (maximum) per contact
- **Dielectric Withstand Voltage:** Greater than 500VDC at sea level
- **Insulation Resistance:** Greater than 5 x 10^9 Ω. Cover pull-off force, without strain relief, 5.60kg. minimum (force along contacts' primary axis)

No. of Cont.	Cont. Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100
PCB Connectors						
10	Tin	.700 (17.78)	CPC10T-ND	1.24	.94	.72
•20	Tin	1.200 (30.48)	CPC20T-ND	1.46	1.11	.85
26	Tin	1.500 (38.10)	CPC26T-ND	1.86	1.41	1.08
34	Tin	1.900 (48.26)	CPC34T-ND	2.26	1.72	1.32
•40	Tin	2.200 (55.88)	CPC40T-ND	2.60	1.98	1.52
50	Tin	2.700 (68.58)	CPC50T-ND	3.22	2.45	1.88
•60	Tin	3.200 (81.28)	CPC60T-ND	3.72	2.82	2.16

•-Full row version. ("Special Center" version shown above).

Card Edge Connectors

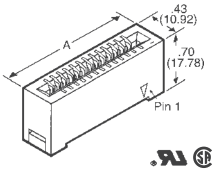

- **Contacts:** Phosphor bronze
- **Contact Plating:** Gold – 10μ inch gold (in mating area) over 50μ inch nickel. Tin – 100μ inch tin-lead
- **Insulator Material:** UL 94V-0 flame-retardant thermoplastic
- **Color:** Blue
- **Operational Temperature:** -55°C ~ 125°C
- **Current Rating:** 1 A (maximum) per contact
- **Dielectric Withstand Voltage:** Greater than 500Vdc at sea level
- **Insulation Resistance:** Greater than 5x10^9 Ω
- Cover pull-off force 226.79g./contact minimum (force along contacts' primary axis)

No. of Cont.	Contact Finish	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100
Card Edge Connectors						
10	Gold	.976 (24.79)	CCE10G-ND	2.42	1.84	1.41
10	Tin	.976 (24.79)	CCE10T-ND	2.05	1.56	1.19
20	Gold	1.476 (37.49)	CCE20G-ND	3.22	2.45	1.88
20	Tin	1.476 (37.49)	CCE20T-ND	2.73	2.07	1.59
26	Gold	1.776 (45.11)	CCE26G-ND	3.88	2.94	2.25
26	Tin	1.776 (45.11)	CCE26T-ND	3.29	2.50	1.91
34	Gold	2.176 (55.27)	CCE34G-ND	4.81	3.65	2.79
34	Tin	2.176 (55.27)	CCE34T-ND	4.09	3.11	2.38
40	Gold	2.476 (62.89)	CCE40G-ND	5.61	4.26	3.26
40	Tin	2.476 (62.89)	CCE40T-ND	4.77	3.62	2.78
50	Gold	2.976 (75.59)	CCE50G-ND	6.32	4.80	3.68
50	Tin	2.976 (75.59)	CCE50T-ND	5.36	4.07	3.12
Polarizing Key			PK-2-ND	.22/2	.86/10	6.30/100

Termination Jumpers

Socket Connector — Single Ended

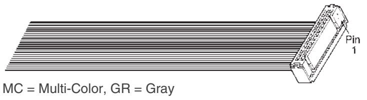

* MC = Multi-Color, GR = Gray

Socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	36 (91.44)	MC	C1AXG-1036M-ND	1.84	1.40
	Tin	36 (91.44)	MC	C1AXT-1036M-ND	1.67	1.27
	Gold	36 (91.44)	GR	C1AXG-1036G-ND	1.61	1.23
	Tin	36 (91.44)	GR	C1AXT-1036G-ND	1.45	1.10
14	Gold	36 (91.44)	MC	C1AXG-1436M-ND	2.60	1.97
	Tin	36 (91.44)	MC	C1AXT-1436M-ND	2.36	1.80
	Gold	36 (91.44)	GR	C1AXG-1436G-ND	2.29	1.74
	Tin	36 (91.44)	GR	C1AXT-1436G-ND	2.05	1.56
16	Gold	36 (91.44)	MC	C1AXG-1636M-ND	2.99	2.27
	Tin	36 (91.44)	MC	C1AXT-1636M-ND	2.72	2.06
	Gold	36 (91.44)	GR	C1AXG-1636G-ND	2.63	2.00
	Tin	36 (91.44)	GR	C1AXT-1636G-ND	2.35	1.79
20	Gold	36 (91.44)	MC	C1AXG-2036M-ND	3.38	2.56
	Tin	36 (91.44)	MC	C1AXT-2036M-ND	3.09	2.35
	Gold	36 (91.44)	GR	C1AXG-2036G-ND	2.93	2.22
	Tin	36 (91.44)	GR	C1AXT-2036G-ND	2.64	2.00
26	Gold	36 (91.44)	MC	C1AXG-2636M-ND	5.18	3.93
	Tin	36 (91.44)	MC	C1AXT-2636M-ND	3.84	2.92
	Gold	36 (91.44)	GR	C1AXG-2636G-ND	3.61	2.74
	Tin	36 (91.44)	GR	C1AXT-2636G-ND	3.26	2.48
34	Gold	36 (91.44)	MC	C1AXG-3436M-ND	5.28	4.01
	Tin	36 (91.44)	MC	C1AXT-3436M-ND	4.86	3.69
	Gold	36 (91.44)	GR	C1AXG-3436G-ND	4.53	3.44
	Tin	36 (91.44)	GR	C1AXT-3436G-ND	4.11	3.12
40	Gold	36 (91.44)	MC	C1AXG-4036M-ND	6.01	4.56
	Tin	36 (91.44)	MC	C1AXT-4036M-ND	5.55	4.21
	Gold	36 (91.44)	GR	C1AXG-4036G-ND	5.11	3.88
	Tin	36 (91.44)	GR	C1AXT-4036G-ND	4.65	3.53
50	Gold	36 (91.44)	MC	C1AXG-5036M-ND	7.36	5.58
	Tin	36 (91.44)	MC	C1AXT-5036M-ND	6.80	5.16
	Gold	36 (91.44)	GR	C1AXG-5036G-ND	6.23	4.73
	Tin	36 (91.44)	GR	C1AXT-5036G-ND	5.67	4.31
60	Gold	36 (91.44)	MC	C1AXG-6036M-ND	8.87	6.73
	Tin	36 (91.44)	MC	C1AXT-6036M-ND	8.19	6.22
	Gold	36 (91.44)	GR	C1AXG-6036G-ND	7.53	5.71
	Tin	36 (91.44)	GR	C1AXT-6036G-ND	6.85	5.20

Also available in the following versions:

C1BX□-□□□□□-ND – Socket Connector with Strain Relief.
C1CX□-□□□□□-ND – Socket Connector with Central Polarizing Key.
C1DX□-□□□□□-ND – Socket Connector w. Strain Relief & Central Polarizing Key.

Call for complete part number and pricing!

PCB Connector – Single Ended

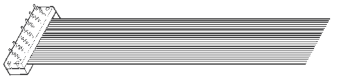

* MC = Multi-Color, GR = Gray PCB connector without strain relief.

No. of Contacts	Conn. Finish	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each 1	10
10	Tin	36 (91.44)	MC	C1PXT-1036M-ND	1.97	1.49
	Tin	36 (91.44)	GR	C1PXT-1036G-ND	1.74	1.32
20	Tin	36 (91.44)	MC	C1PXT-2036M-ND	2.91	2.21
	Tin	36 (91.44)	GR	C1PXT-2036G-ND	2.46	1.87
26	Tin	36 (91.44)	MC	C1PXT-2636M-ND	3.75	2.85
	Tin	36 (91.44)	GR	C1PXT-2636G-ND	3.17	2.41
34	Tin	36 (91.44)	MC	C1PXT-3436M-ND	4.73	3.59
	Tin	36 (91.44)	GR	C1PXT-3436G-ND	3.97	3.02
40	Tin	36 (91.44)	MC	C1PXT-4036M-ND	5.51	4.19
	Tin	36 (91.44)	GR	C1PXT-4036G-ND	4.62	3.50
50	Tin	36 (91.44)	MC	C1PXT-5036M-ND	6.86	5.21
	Tin	36 (91.44)	GR	C1PXT-5036G-ND	5.74	4.35
60	Tin	36 (91.44)	MC	C1PXT-6036M-ND	5.59	4.24
	Tin	36 (91.44)	GR	C1PXT-6036G-ND	4.25	3.22

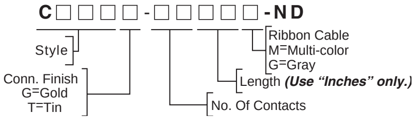

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

(Continued)

Termination Jumpers *(Cont.)*

Card Edge Connector – Single Ended

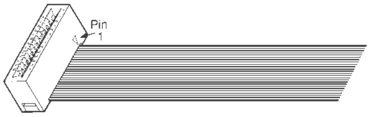

* MC = Multi-Color, GR = Gray
Card Edge connector without strain relief shown.

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	36 (91.44)	MC	C1EXG-1036M-ND	3.14	2.39
	Tin	36 (91.44)	MC	C1EXT-1036M-ND	2.78	2.11
	Gold	36 (91.44)	GR	C1EXG-1036G-ND	2.92	2.21
	Tin	36 (91.44)	GR	C1EXT-1036G-ND	2.55	1.94
20	Gold	36 (91.44)	MC	C1EXG-2036M-ND	4.68	3.55
	Tin	36 (91.44)	MC	C1EXT-2036M-ND	4.20	3.19
	Gold	36 (91.44)	GR	C1EXG-2036G-ND	4.23	3.21
	Tin	36 (91.44)	GR	C1EXT-2036G-ND	3.74	2.84
26	Gold	36 (91.44)	MC	C1EXG-2636M-ND	5.77	4.38
	Tin	36 (91.44)	MC	C1EXT-2636M-ND	5.18	3.93
	Gold	36 (91.44)	GR	C1EXG-2636G-ND	5.19	3.94
	Tin	36 (91.44)	GR	C1EXT-2636G-ND	4.61	3.50
34	Gold	36 (91.44)	MC	C1EXG-3436M-ND	7.27	5.52
	Tin	36 (91.44)	MC	C1EXT-3436M-ND	6.55	4.97
	Gold	36 (91.44)	GR	C1EXG-3436G-ND	6.52	4.94
	Tin	36 (91.44)	GR	C1EXT-3436G-ND	5.80	4.40
40	Gold	36 (91.44)	MC	C1EXG-4036M-ND	8.52	6.46
	Tin	36 (91.44)	MC	C1EXT-4036M-ND	7.68	5.83
	Gold	36 (91.44)	GR	C1EXG-4036G-ND	7.62	5.78
	Tin	36 (91.44)	GR	C1EXT-4036G-ND	6.78	5.14
50	Gold	36 (91.44)	MC	C1EXG-5036M-ND	9.96	7.56
	Tin	36 (91.44)	MC	C1EXT-5036M-ND	9.02	6.84
	Gold	36 (91.44)	GR	C1EXG-5036G-ND	8.84	6.70
	Tin	36 (91.44)	GR	C1EXT-5036G-ND	7.89	5.98

Socket Connector to Socket Connector

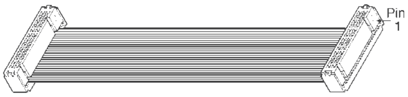

* MC = Multi-Color, GR = Gray
Socket connector without strain relief shown.

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	6 (15.24)	MC	C3AAG-1006M-ND	2.35	1.79
	Tin	6 (15.24)	MC	C3AAT-1006M-ND	2.02	1.53
	Gold	6 (15.24)	GR	C3AAG-1006G-ND	2.32	1.76
	Tin	6 (15.24)	GR	C3AAT-1006G-ND	1.98	1.51
	Gold	18 (45.72)	MC	C3AAG-1018M-ND	2.59	1.97
	Tin	18 (45.72)	MC	C3AAT-1018M-ND	2.26	1.72
	Gold	18 (45.72)	GR	C3AAG-1018G-ND	2.48	1.89
	Tin	18 (45.72)	GR	C3AAT-1018G-ND	2.15	1.63
	Gold	36 (91.44)	MC	C3AAG-1036M-ND	2.96	2.25
	Tin	36 (91.44)	MC	C3AAT-1036M-ND	2.62	1.99
	Gold	36 (91.44)	GR	C3AAG-1036G-ND	2.73	2.07
	Tin	36 (91.44)	GR	C3AAT-1036G-ND	2.39	1.82
14	Gold	6 (15.24)	MC	C3AAG-1406M-ND	3.33	2.53
	Tin	6 (15.24)	MC	C3AAT-1406M-ND	2.86	2.17
	Gold	6 (15.24)	GR	C3AAG-1406G-ND	3.28	2.49
	Tin	6 (15.24)	GR	C3AAT-1406G-ND	2.81	2.13
	Gold	18 (45.72)	MC	C3AAG-1418M-ND	3.67	2.79
	Tin	18 (45.72)	MC	C3AAT-1418M-ND	3.20	2.43
	Gold	18 (45.72)	GR	C3AAG-1418G-ND	3.52	2.67
	Tin	18 (45.72)	GR	C3AAT-1418G-ND	3.04	2.31
	Gold	36 (91.44)	MC	C3AAG-1436M-ND	4.18	3.17
	Tin	36 (91.44)	MC	C3AAT-1436M-ND	3.71	2.81
	Gold	36 (91.44)	GR	C3AAG-1436G-ND	3.87	2.94
	Tin	36 (91.44)	GR	C3AAT-1436G-ND	3.39	2.58
16	Gold	6 (15.24)	MC	C3AAG-1606M-ND	3.85	2.92
	Tin	6 (15.24)	MC	C3AAT-1606M-ND	3.30	2.51
	Gold	6 (15.24)	GR	C3AAG-1606G-ND	3.79	2.88
	Tin	6 (15.24)	GR	C3AAT-1606G-ND	3.24	2.46
	Gold	18 (45.72)	MC	C3AAG-1618M-ND	4.24	3.22
	Tin	18 (45.72)	MC	C3AAT-1618M-ND	3.69	2.80
	Gold	18 (45.72)	GR	C3AAG-1618G-ND	4.06	3.08
	Tin	18 (45.72)	GR	C3AAT-1618G-ND	3.51	2.66
	Gold	36 (91.44)	MC	C3AAG-1636M-ND	4.82	3.66
	Tin	36 (91.44)	MC	C3AAT-1636M-ND	4.27	3.24
	Gold	36 (91.44)	GR	C3AAG-1636G-ND	4.46	3.38
	Tin	36 (91.44)	GR	C3AAT-1636G-ND	3.91	2.97
20	Gold	6 (15.24)	MC	C3AAG-2006M-ND	4.09	3.10
	Tin	6 (15.24)	MC	C3AAT-2006M-ND	3.51	2.67
	Gold	6 (15.24)	GR	C3AAG-2006G-ND	4.01	3.05
	Tin	6 (15.24)	GR	C3AAT-2006G-ND	3.43	2.61
	Gold	18 (45.72)	MC	C3AAG-2018M-ND	4.57	3.47
	Tin	18 (45.72)	MC	C3AAT-2018M-ND	4.00	3.03
	Gold	18 (45.72)	GR	C3AAG-2018G-ND	4.35	3.30
	Tin	18 (45.72)	GR	C3AAT-2018G-ND	3.77	2.86
	Gold	36 (91.44)	MC	C3AAG-2036M-ND	5.30	4.02
	Tin	36 (91.44)	MC	C3AAT-2036M-ND	4.72	3.58
	Gold	36 (91.44)	GR	C3AAG-2036G-ND	4.85	3.68
	Tin	36 (91.44)	GR	C3AAT-2036G-ND	4.27	3.24
26	Gold	6 (15.24)	MC	C3AAG-2606M-ND	4.90	3.72
	Tin	6 (15.24)	MC	C3AAT-2606M-ND	4.21	3.20
	Gold	6 (15.24)	GR	C3AAG-2606G-ND	4.81	3.65
	Tin	6 (15.24)	GR	C3AAT-2606G-ND	4.12	3.13
	Gold	18 (45.72)	MC	C3AAG-2618M-ND	5.53	4.20
	Tin	18 (45.72)	MC	C3AAT-2618M-ND	4.84	3.68
	Gold	18 (45.72)	GR	C3AAG-2618G-ND	5.24	3.98
	Tin	18 (45.72)	GR	C3AAT-2618G-ND	4.56	3.46
	Gold	36 (91.44)	MC	C3AAG-2636M-ND	6.48	4.92
	Tin	36 (91.44)	MC	C3AAT-2636M-ND	5.79	4.39
	Gold	36 (91.44)	GR	C3AAG-2636G-ND	5.90	4.48
	Tin	36 (91.44)	GR	C3AAT-2636G-ND	5.21	3.95
34	Gold	6 (15.24)	MC	C3AAG-3406M-ND	6.05	4.59
	Tin	6 (15.24)	MC	C3AAT-3406M-ND	5.21	3.95
	Gold	6 (15.24)	GR	C3AAG-3406G-ND	5.93	4.50
	Tin	6 (15.24)	GR	C3AAT-3406G-ND	5.08	3.86
	Gold	18 (45.72)	MC	C3AAG-3418M-ND	6.87	5.22
	Tin	18 (45.72)	MC	C3AAT-3418M-ND	6.03	4.57
	Gold	18 (45.72)	GR	C3AAG-3418G-ND	6.50	4.93
	Tin	18 (45.72)	GR	C3AAT-3418G-ND	5.65	4.29
	Gold	36 (91.44)	MC	C3AAG-3436M-ND	8.11	6.15
	Tin	36 (91.44)	MC	C3AAT-3436M-ND	7.26	5.51
	Gold	36 (91.44)	GR	C3AAG-3436G-ND	7.35	5.58
	Tin	36 (91.44)	GR	C3AAT-3436G-ND	6.51	4.94
40	Gold	6 (15.24)	MC	C3AAG-4006M-ND	6.69	5.07
	Tin	6 (15.24)	MC	C3AAT-4006M-ND	5.76	4.37
	Gold	6 (15.24)	GR	C3AAG-4006G-ND	6.54	4.96
	Tin	6 (15.24)	GR	C3AAT-4006G-ND	5.61	4.25
	Gold	18 (45.72)	MC	C3AAG-4018M-ND	7.66	5.81
	Tin	18 (45.72)	MC	C3AAT-4018M-ND	6.73	5.10
	Gold	18 (45.72)	GR	C3AAG-4018G-ND	7.21	5.47
	Tin	18 (45.72)	GR	C3AAT-4018G-ND	6.28	4.76
	Gold	36 (91.44)	MC	C3AAG-4036M-ND	9.11	6.91
	Tin	36 (91.44)	MC	C3AAT-4036M-ND	8.18	6.21
	Gold	36 (91.44)	GR	C3AAG-4036G-ND	8.21	6.23
	Tin	36 (91.44)	GR	C3AAT-4036G-ND	7.28	5.52
50	Gold	6 (15.24)	MC	C3AAG-5006M-ND	8.05	6.10
	Tin	6 (15.24)	MC	C3AAT-5006M-ND	6.93	5.26
	Gold	6 (15.24)	GR	C3AAG-5006G-ND	7.86	5.96
	Tin	6 (15.24)	GR	C3AAT-5006G-ND	6.74	5.12
	Gold	18 (45.72)	MC	C3AAG-5018M-ND	9.26	7.02
	Tin	18 (45.72)	MC	C3AAT-5018M-ND	8.14	6.18
	Gold	18 (45.72)	GR	C3AAG-5018G-ND	8.70	6.60
	Tin	18 (45.72)	GR	C3AAT-5018G-ND	7.58	5.75
	Gold	36 (91.44)	MC	C3AAG-5036M-ND	11.08	8.40
	Tin	36 (91.44)	MC	C3AAT-5036M-ND	9.96	7.56
	Gold	36 (91.44)	GR	C3AAG-5036G-ND	9.95	7.55
	Tin	36 (91.44)	GR	C3AAT-5036G-ND	8.84	6.70
60	Gold	6 (15.24)	MC	C3AAG-6006M-ND	9.78	7.42
	Tin	6 (15.24)	MC	C3AAT-6006M-ND	8.42	6.39
	Gold	6 (15.24)	GR	C3AAG-6006G-ND	9.55	7.25
	Tin	6 (15.24)	GR	C3AAT-6006G-ND	8.20	6.22
	Gold	18 (45.72)	MC	C3AAG-6018M-ND	11.23	8.51
	Tin	18 (45.72)	MC	C3AAT-6018M-ND	9.87	7.49
	Gold	18 (45.72)	GR	C3AAG-6018G-ND	10.56	8.01
	Tin	18 (45.72)	GR	C3AAT-6018G-ND	9.20	6.98
	Gold	36 (91.44)	MC	C3AAG-6036M-ND	13.40	10.16
	Tin	36 (91.44)	MC	C3AAT-6036M-ND	12.04	9.13
	Gold	36 (91.44)	GR	C3AAG-6036G-ND	12.06	9.15
	Tin	36 (91.44)	GR	C3AAT-6036G-ND	10.70	8.12

Also available in the following versions:
C3BB□-□□□□□-ND — Socket Connector with Strain Relief.
C3CC□-□□□□□-ND — Socket Connector with Central Polarizing Key.
C3DD□-□□□□□-ND — Socket Connector w/Strain Relief & Central Polarizing Key.
Call for complete part number and pricing!

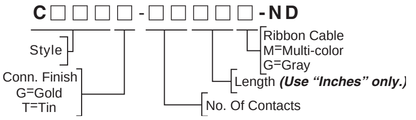

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

PCB Connector to PCB Connector

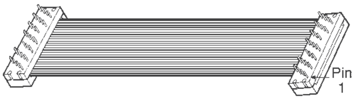

* MC = Multi-Color, GR = Gray
PCB connector without strain relief shown.

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Tin	6 (15.24)	MC	C3PPT-1006M-ND	2.60	1.98
	Tin	6 (15.24)	GR	C3PPT-1006G-ND	2.56	1.95
	Tin	18 (45.72)	MC	C3PPT-1018M-ND	2.84	2.16
	Tin	18 (45.72)	GR	C3PPT-1018G-ND	2.73	2.07
	Tin	36 (91.44)	MC	C3PPT-1036M-ND	3.21	2.43
	Tin	36 (91.44)	GR	C3PPT-1036G-ND	2.98	2.26
20	Tin	6 (15.24)	MC	C3PPT-2006M-ND	3.16	2.40
	Tin	6 (15.24)	GR	C3PPT-2006G-ND	3.08	2.34
	Tin	18 (45.72)	MC	C3PPT-2018M-ND	3.64	2.77
	Tin	18 (45.72)	GR	C3PPT-2018G-ND	3.42	2.59
	Tin	36 (91.44)	MC	C3PPT-2036M-ND	4.37	3.32
	Tin	36 (91.44)	GR	C3PPT-2036G-ND	3.92	2.97
26	Tin	6 (15.24)	MC	C3PPT-2606M-ND	4.03	3.06
	Tin	6 (15.24)	GR	C3PPT-2606G-ND	3.94	2.99
	Tin	18 (45.72)	MC	C3PPT-2618M-ND	4.67	3.54
	Tin	18 (45.72)	GR	C3PPT-2618G-ND	4.38	3.32
	Tin	36 (91.44)	MC	C3PPT-2636M-ND	5.61	4.26
	Tin	36 (91.44)	GR	C3PPT-2636G-ND	5.03	3.82
34	Tin	6 (15.24)	MC	C3PPT-3406M-ND	4.94	3.75
	Tin	6 (15.24)	GR	C3PPT-3406G-ND	4.81	3.65
	Tin	18 (45.72)	MC	C3PPT-3418M-ND	5.76	4.37
	Tin	18 (45.72)	GR	C3PPT-3418G-ND	5.38	4.08
	Tin	36 (91.44)	MC	C3PPT-3436M-ND	6.99	5.30
	Tin	36 (91.44)	GR	C3PPT-3436G-ND	6.24	4.73
40	Tin	6 (15.24)	MC	C3PPT-4006M-ND	5.69	4.32
	Tin	6 (15.24)	GR	C3PPT-4006G-ND	5.54	4.21
	Tin	18 (45.72)	MC	C3PPT-4018M-ND	6.66	5.06
	Tin	18 (45.72)	GR	C3PPT-4018G-ND	6.21	4.71
	Tin	36 (91.44)	MC	C3PPT-4036M-ND	8.12	6.16
	Tin	36 (91.44)	GR	C3PPT-4036G-ND	7.22	5.48
50	Tin	6 (15.24)	MC	C3PPT-5006M-ND	7.05	5.35
	Tin	6 (15.24)	GR	C3PPT-5006G-ND	6.87	5.21
	Tin	18 (45.72)	MC	C3PPT-5018M-ND	8.27	6.27
	Tin	18 (45.72)	GR	C3PPT-5018G-ND	7.70	5.84
	Tin	36 (91.44)	MC	C3PPT-5036M-ND	10.09	7.65
	Tin	36 (91.44)	GR	C3PPT-5036G-ND	8.96	6.80
60	Tin	6 (15.24)	MC	C3PPT-6006M-ND	8.16	6.19
	Tin	6 (15.24)	GR	C3PPT-6006G-ND	7.94	6.02
	Tin	18 (45.72)	MC	C3PPT-6018M-ND	9.61	7.29
	Tin	18 (45.72)	GR	C3PPT-6018G-ND	8.94	6.78
	Tin	36 (91.44)	MC	C3PPT-6036M-ND	11.79	8.94
	Tin	36 (91.44)	GR	C3PPT-6036G-ND	10.45	7.92

Card Edge to Card Edge

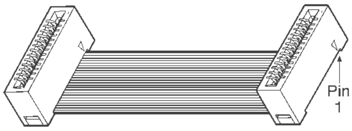

* MC = Multi-Color, GR = Gray
Card Edge connector without strain relief shown.

No. of Con-tacts	Conn. Finish	Length In. (cm)	Rib-bon* Cable	Digi-Key Part No.	Price Each 1	10
10	Gold	6 (15.24)	MC	C3EEG-1006M-ND	4.96	3.76
	Tin	6 (15.24)	MC	C3EET-1006M-ND	4.23	3.21
	Gold	6 (15.24)	GR	C3EEG-1006G-ND	4.92	3.73
	Tin	6 (15.24)	GR	C3EET-1006G-ND	4.19	3.18
	Gold	18 (45.72)	MC	C3EEG-1018M-ND	5.20	3.95
	Tin	18 (45.72)	MC	C3EET-1018M-ND	4.47	3.40
	Gold	18 (45.72)	GR	C3EEG-1018G-ND	5.08	3.86
	Tin	18 (45.72)	GR	C3EET-1018G-ND	4.36	3.31
	Gold	36 (91.44)	MC	C3EEG-1036M-ND	5.56	4.22
	Tin	36 (91.44)	MC	C3EET-1036M-ND	4.84	3.67
	Gold	36 (91.44)	GR	C3EEG-1036G-ND	5.33	4.05
	Tin	36 (91.44)	GR	C3EET-1036G-ND	4.61	3.50
20	Gold	6 (15.24)	MC	C3EEG-2006M-ND	6.69	5.08
	Tin	6 (15.24)	MC	C3EET-2006M-ND	5.72	4.34
	Gold	6 (15.24)	GR	C3EEG-2006G-ND	6.62	5.02
	Tin	6 (15.24)	GR	C3EET-2006G-ND	5.65	4.29
	Gold	18 (45.72)	MC	C3EEG-2018M-ND	7.18	5.44
	Tin	18 (45.72)	MC	C3EET-2018M-ND	6.21	4.71
	Gold	18 (45.72)	GR	C3EEG-2018G-ND	6.95	5.27
	Tin	18 (45.72)	GR	C3EET-2018G-ND	5.98	4.54
	Gold	36 (91.44)	MC	C3EEG-2036M-ND	7.90	6.00
	Tin	36 (91.44)	MC	C3EET-2036M-ND	6.94	5.26
	Gold	36 (91.44)	GR	C3EEG-2036G-ND	7.45	5.65
	Tin	36 (91.44)	GR	C3EET-2036G-ND	6.49	4.92

(Continued)

Termination Jumpers *(Cont.)*

Card Edge to Card Edge *(Cont.)*

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Price Each	
					1	10
26	Gold	6 (15.24)	MC	C3EEG-2606M-ND	8.06	6.12
	Tin	6 (15.24)	MC	C3EET-2606M-ND	6.90	5.24
	Gold	6 (15.24)	GR	C3EEG-2606G-ND	7.97	6.05
	Tin	6 (15.24)	GR	C3EET-2606G-ND	6.81	5.16
	Gold	18 (45.72)	MC	C3EEG-2618M-ND	8.70	6.60
	Tin	18 (45.72)	MC	C3EET-2618M-ND	7.53	5.71
	Gold	18 (45.72)	GR	C3EEG-2618G-ND	8.41	6.38
	Tin	18 (45.72)	GR	C3EET-2618G-ND	7.24	5.50
	Gold	36 (91.44)	MC	C3EEG-2636M-ND	9.64	7.31
	Tin	36 (91.44)	MC	C3EET-2636M-ND	8.48	6.43
	Gold	36 (91.44)	GR	C3EEG-2636G-ND	9.06	6.87
	Tin	36 (91.44)	GR	C3EET-2636G-ND	7.90	5.99
34	Gold	6 (15.24)	MC	C3EEG-3406M-ND	10.02	7.60
	Tin	6 (15.24)	MC	C3EET-3406M-ND	8.58	6.51
	Gold	6 (15.24)	GR	C3EEG-3406G-ND	9.90	7.51
	Tin	6 (15.24)	GR	C3EET-3406G-ND	8.45	6.41
	Gold	18 (45.72)	MC	C3EEG-3418M-ND	10.84	8.22
	Tin	18 (45.72)	MC	C3EET-3418M-ND	9.40	7.13
	Gold	18 (45.72)	GR	C3EEG-3418G-ND	10.47	7.94
	Tin	18 (45.72)	GR	C3EET-3418G-ND	9.02	6.85
	Gold	36 (91.44)	MC	C3EEG-3436M-ND	12.07	9.16
	Tin	36 (91.44)	MC	C3EET-3436M-ND	10.63	8.07
	Gold	36 (91.44)	GR	C3EEG-3436G-ND	11.32	8.59
	Tin	36 (91.44)	GR	C3EET-3436G-ND	9.88	7.49
40	Gold	6 (15.24)	MC	C3EEG-4006M-ND	11.71	8.88
	Tin	6 (15.24)	MC	C3EET-4006M-ND	10.02	7.60
	Gold	6 (15.24)	GR	C3EEG-4006G-ND	11.56	8.77
	Tin	6 (15.24)	GR	C3EET-4006G-ND	9.87	7.49
	Gold	18 (45.72)	MC	C3EEG-4018M-ND	12.68	9.61
	Tin	18 (45.72)	MC	C3EET-4018M-ND	10.99	8.34
	Gold	18 (45.72)	GR	C3EEG-4018G-ND	12.23	9.27
	Tin	18 (45.72)	GR	C3EET-4018G-ND	10.54	8.00
	Gold	36 (91.44)	MC	C3EEG-4036M-ND	14.13	10.72
	Tin	36 (91.44)	MC	C3EET-4036M-ND	12.45	9.44
	Gold	36 (91.44)	GR	C3EEG-4036G-ND	13.23	10.04
	Tin	36 (91.44)	GR	C3EET-4036G-ND	11.55	8.76
50	Gold	6 (15.24)	MC	C3EEG-5006M-ND	13.25	10.05
	Tin	6 (15.24)	MC	C3EET-5006M-ND	11.36	8.61
	Gold	6 (15.24)	GR	C3EEG-5006G-ND	13.07	9.91
	Tin	6 (15.24)	GR	C3EET-5006G-ND	11.17	8.47
	Gold	18 (45.72)	MC	C3EEG-5018M-ND	14.47	10.97
	Tin	18 (45.72)	MC	C3EET-5018M-ND	12.57	9.53
	Gold	18 (45.72)	GR	C3EEG-5018G-ND	13.90	10.54
	Tin	18 (45.72)	GR	C3EET-5018G-ND	12.01	9.11
	Gold	36 (91.44)	MC	C3EEG-5036M-ND	16.29	12.35
	Tin	36 (91.44)	MC	C3EET-5036M-ND	14.39	10.91
	Gold	36 (91.44)	GR	C3EEG-5036G-ND	15.16	11.50
	Tin	36 (91.44)	GR	C3EET-5036G-ND	13.26	10.06

Socket Connector to PCB Connector

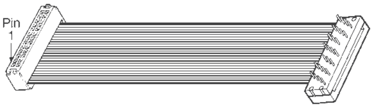

* MC = Multi-Color, GR = Gray
Socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon⋆ Cable	Digi-Key Part No.	Price Each	
					1	10
10	Tin	6 (15.24)	MC	C3APT-1006M-ND	2.02	1.53
	Tin	6 (15.24)	GR	C3APT-1006G-ND	1.98	1.51
	Tin	18 (45.72)	MC	C3APT-1018M-ND	2.26	1.72
	Tin	18 (45.72)	GR	C3APT-1018G-ND	2.15	1.63
	Tin	36 (91.44)	MC	C3APT-1036M-ND	2.62	1.99
	Tin	36 (91.44)	GR	C3APT-1036G-ND	2.39	1.82
20	Tin	6 (15.24)	MC	C3APT-2006M-ND	3.33	2.53
	Tin	6 (15.24)	GR	C3APT-2006G-ND	3.26	2.47
	Tin	18 (45.72)	MC	C3APT-2018M-ND	3.82	2.90
	Tin	18 (45.72)	GR	C3APT-2018G-ND	3.59	2.73
	Tin	36 (91.44)	MC	C3APT-2036M-ND	4.55	3.45
	Tin	36 (91.44)	GR	C3APT-2036G-ND	4.10	3.11
26	Tin	6 (15.24)	MC	C3APT-2606M-ND	4.12	3.13
	Tin	6 (15.24)	GR	C3APT-2606G-ND	4.03	3.06
	Tin	18 (45.72)	MC	C3APT-2618M-ND	4.76	3.61
	Tin	18 (45.72)	GR	C3APT-2618G-ND	4.47	3.39
	Tin	36 (91.44)	MC	C3APT-2636M-ND	5.70	4.33
	Tin	36 (91.44)	GR	C3APT-2636G-ND	5.12	3.89
34	Tin	6 (15.24)	MC	C3APT-3406M-ND	5.07	3.85
	Tin	6 (15.24)	GR	C3APT-3406G-ND	4.95	3.75
	Tin	18 (45.72)	MC	C3APT-3418M-ND	5.89	4.47
	Tin	18 (45.72)	GR	C3APT-3418G-ND	5.52	4.19
	Tin	36 (91.44)	MC	C3APT-3436M-ND	7.13	5.41
	Tin	36 (91.44)	GR	C3APT-3436G-ND	6.37	4.83
40	Tin	6 (15.24)	MC	C3APT-4006M-ND	5.72	4.34
	Tin	6 (15.24)	GR	C3APT-4006G-ND	5.57	4.23
	Tin	18 (45.72)	MC	C3APT-4018M-ND	6.69	5.08
	Tin	18 (45.72)	GR	C3APT-4018G-ND	6.24	4.74
	Tin	36 (91.44)	MC	C3APT-4036M-ND	8.15	6.18
	Tin	36 (91.44)	GR	C3APT-4036G-ND	7.25	5.50
50	Tin	6 (15.24)	MC	C3APT-5006M-ND	6.99	5.31
	Tin	6 (15.24)	GR	C3APT-5006G-ND	6.80	5.16
	Tin	18 (45.72)	MC	C3APT-5018M-ND	8.21	6.23
	Tin	18 (45.72)	GR	C3APT-5018G-ND	7.64	5.80
	Tin	36 (91.44)	MC	C3APT-5036M-ND	10.03	7.61
	Tin	36 (91.44)	GR	C3APT-5036G-ND	8.90	6.75
60	Tin	6 (15.24)	MC	C3APT-6006M-ND	8.29	6.29
	Tin	6 (15.24)	GR	C3APT-6006G-ND	8.07	6.12
	Tin	18 (45.72)	MC	C3APT-6018M-ND	9.74	7.39
	Tin	18 (45.72)	GR	C3APT-6018G-ND	9.07	6.88
	Tin	36 (91.44)	MC	C3APT-6036M-ND	11.91	9.04
	Tin	36 (91.44)	GR	C3APT-6036G-ND	10.57	8.02

Also available in the following versions:
C3BP☐-☐☐☐☐☐-ND – Socket Connector with Strain Relief.
C3CP☐-☐☐☐☐☐-ND – Socket Connector with Central Polarizing Key.
C3DP☐-☐☐☐☐☐-ND – Socket Connector w/ Strain Relief & Central Polarizing Key.
Call for complete part number and pricing!

PCB connector without strain relief shown.

Socket Connector to Card Edge Connector

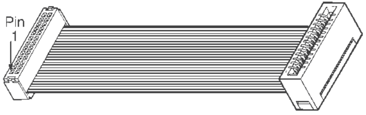

* MC = Multi-Color, GR = Gray
Socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length In (cm)	Ribbon⋆ Cable	Digi-Key Part No.	Price Each	
					1	10
10	Gold	6 (15.24)	MC	C3AEG-1006M-ND	3.65	2.78
	Tin	6 (15.24)	MC	C3AET-1006M-ND	3.12	2.37
	Gold	6 (15.24)	GR	C3AEG-1006G-ND	3.62	2.75
	Tin	6 (15.24)	GR	C3AET-1006G-ND	3.09	2.34
	Gold	18 (45.72)	MC	C3AEG-1018M-ND	3.90	2.96
	Tin	18 (45.72)	MC	C3AET-1018M-ND	3.37	2.56
	Gold	18 (45.72)	GR	C3AEG-1018G-ND	3.78	2.87
	Tin	18 (45.72)	GR	C3AET-1018G-ND	3.25	2.47
	Gold	36 (91.44)	MC	C3AEG-1036M-ND	4.26	3.23
	Tin	36 (91.44)	MC	C3AET-1036M-ND	3.73	2.83
	Gold	36 (91.44)	GR	C3AEG-1036G-ND	4.03	3.06
	Tin	36 (91.44)	GR	C3AET-1036G-ND	3.50	2.66
20	Gold	6 (15.24)	MC	C3AEG-2006M-ND	5.39	4.09
	Tin	6 (15.24)	MC	C3AET-2006M-ND	4.62	3.50
	Gold	6 (15.24)	GR	C3AEG-2006G-ND	5.31	4.03
	Tin	6 (15.24)	GR	C3AET-2006G-ND	4.54	3.45
	Gold	18 (45.72)	MC	C3AEG-2018M-ND	5.87	4.46
	Tin	18 (45.72)	MC	C3AET-2018M-ND	5.10	3.87
	Gold	18 (45.72)	GR	C3AEG-2018G-ND	5.65	4.29
	Tin	18 (45.72)	GR	C3AET-2018G-ND	4.88	3.70
	Gold	36 (91.44)	MC	C3AEG-2036M-ND	6.60	5.01
	Tin	36 (91.44)	MC	C3AET-2036M-ND	5.83	4.42
	Gold	36 (91.44)	GR	C3AEG-2036G-ND	6.15	4.67
	Tin	36 (91.44)	GR	C3AET-2036G-ND	5.38	4.08
26	Gold	6 (15.24)	MC	C3AEG-2606M-ND	6.48	4.92
	Tin	6 (15.24)	MC	C3AET-2606M-ND	5.56	4.22
	Gold	6 (15.24)	GR	C3AEG-2606G-ND	6.39	4.85
	Tin	6 (15.24)	GR	C3AET-2606G-ND	5.46	4.15
	Gold	18 (45.72)	MC	C3AEG-2618M-ND	7.11	5.40
	Tin	18 (45.72)	MC	C3AET-2618M-ND	6.19	4.70
	Gold	18 (45.72)	GR	C3AEG-2618G-ND	6.82	5.18
	Tin	18 (45.72)	GR	C3AET-2618G-ND	5.90	4.48
	Gold	36 (91.44)	MC	C3AEG-2636M-ND	8.06	6.11
	Tin	36 (91.44)	MC	C3AET-2636M-ND	7.13	5.41
	Gold	36 (91.44)	GR	C3AEG-2636G-ND	7.48	5.68
	Tin	36 (91.44)	GR	C3AET-2636G-ND	6.55	4.97
34	Gold	6 (15.24)	MC	C3AEG-3406M-ND	8.04	6.10
	Tin	6 (15.24)	MC	C3AET-3406M-ND	6.89	5.23
	Gold	6 (15.24)	GR	C3AEG-3406G-ND	7.91	6.00
	Tin	6 (15.24)	GR	C3AET-3406G-ND	6.77	5.13
	Gold	18 (45.72)	MC	C3AEG-3418M-ND	8.86	6.72
	Tin	18 (45.72)	MC	C3AET-3418M-ND	7.71	5.85
	Gold	18 (45.72)	GR	C3AEG-3418G-ND	8.48	6.43
	Tin	18 (45.72)	GR	C3AET-3418G-ND	7.34	5.57
	Gold	36 (91.44)	MC	C3AEG-3436M-ND	10.09	7.65
	Tin	36 (91.44)	MC	C3AET-3436M-ND	8.95	6.79
	Gold	36 (91.44)	GR	C3AEG-3436G-ND	9.34	7.08
	Tin	36 (91.44)	GR	C3AET-3436G-ND	8.19	6.22
40	Gold	6 (15.24)	MC	C3AEG-4006M-ND	9.20	6.98
	Tin	6 (15.24)	MC	C3AET-4006M-ND	7.89	5.99
	Gold	6 (15.24)	GR	C3AEG-4006G-ND	9.05	6.86
	Tin	6 (15.24)	GR	C3AET-4006G-ND	7.74	5.87
	Gold	18 (45.72)	MC	C3AEG-4018M-ND	10.17	7.71
	Tin	18 (45.72)	MC	C3AET-4018M-ND	8.86	6.72
	Gold	18 (45.72)	GR	C3AEG-4018G-ND	9.72	7.37
	Tin	18 (45.72)	GR	C3AET-4018G-ND	8.41	6.38
	Gold	36 (91.44)	MC	C3AEG-4036M-ND	11.62	8.81
	Tin	36 (91.44)	MC	C3AET-4036M-ND	10.32	7.82
	Gold	36 (91.44)	GR	C3AEG-4036G-ND	10.72	8.13
	Tin	36 (91.44)	GR	C3AET-4036G-ND	9.42	7.14
50	Gold	6 (15.24)	MC	C3AEG-5006M-ND	10.65	8.08
	Tin	6 (15.24)	MC	C3AET-5006M-ND	9.14	6.94
	Gold	6 (15.24)	GR	C3AEG-5006G-ND	10.46	7.94
	Tin	6 (15.24)	GR	C3AET-5006G-ND	8.96	6.79
	Gold	18 (45.72)	MC	C3AEG-5018M-ND	11.86	9.00
	Tin	18 (45.72)	MC	C3AET-5018M-ND	10.36	7.86
	Gold	18 (45.72)	GR	C3AEG-5018G-ND	11.30	8.57
	Tin	18 (45.72)	GR	C3AET-5018G-ND	9.79	7.43
	Gold	36 (91.44)	MC	C3AEG-5036M-ND	13.68	10.38
	Tin	36 (91.44)	MC	C3AET-5036M-ND	12.18	9.24
	Gold	36 (91.44)	GR	C3AEG-5036G-ND	12.56	9.52
	Tin	36 (91.44)	GR	C3AET-5036G-ND	11.05	8.38

Also available in the following versions:
C3BE☐-☐☐☐☐☐-ND – Socket Connector with Strain Relief.
C3CE☐-☐☐☐☐☐-ND – Socket Connector with Central Polarizing Key.
C3DE☐-☐☐☐☐☐-ND – Socket Connector w/ Strain Relief & Central Polarizing Key.
Call for complete part number and pricing!

Card Edge connectors are without strain relief.

PCB Connector to Card Edge Connector

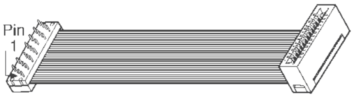

* MC = Multi-Color, GR = Gray

PCB and Card Edge connectors are without strain relief.

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon⋆ Cable	Digi-Key Part No.	Price Each	
					1	10
10	Tin	6 (15.24)	MC	C3PET-1006M-ND	3.42	2.59
	Tin	6 (15.24)	GR	C3PET-1006G-ND	3.38	2.57
	Tin	18 (45.72)	MC	C3PET-1018M-ND	3.66	2.78
	Tin	18 (45.72)	GR	C3PET-1018G-ND	3.54	2.69
	Tin	36 (91.44)	MC	C3PET-1036M-ND	4.02	3.05
	Tin	36 (91.44)	GR	C3PET-1036G-ND	3.79	2.88
20	Tin	6 (15.24)	MC	C3PET-2006M-ND	4.44	3.37
	Tin	6 (15.24)	GR	C3PET-2006G-ND	4.36	3.31
	Tin	18 (45.72)	MC	C3PET-2018M-ND	4.93	3.74
	Tin	18 (45.72)	GR	C3PET-2018G-ND	4.70	3.57
	Tin	36 (91.44)	MC	C3PET-2036M-ND	5.65	4.29
	Tin	36 (91.44)	GR	C3PET-2036G-ND	5.20	3.95
26	Tin	6 (15.24)	MC	C3PET-2606M-ND	5.47	4.15
	Tin	6 (15.24)	GR	C3PET-2606G-ND	5.37	4.08
	Tin	18 (45.72)	MC	C3PET-2618M-ND	6.10	4.63
	Tin	18 (45.72)	GR	C3PET-2618G-ND	5.81	4.41
	Tin	36 (91.44)	MC	C3PET-2636M-ND	7.04	5.34
	Tin	36 (91.44)	GR	C3PET-2636G-ND	6.47	4.91
34	Tin	6 (15.24)	MC	C3PET-3406M-ND	6.76	5.13
	Tin	6 (15.24)	GR	C3PET-3406G-ND	6.63	5.03
	Tin	18 (45.72)	MC	C3PET-3418M-ND	7.58	5.75
	Tin	18 (45.72)	GR	C3PET-3418G-ND	7.20	5.46
	Tin	36 (91.44)	MC	C3PET-3436M-ND	8.81	6.68
	Tin	36 (91.44)	GR	C3PET-3436G-ND	8.06	6.11
40	Tin	6 (15.24)	MC	C3PET-4006M-ND	7.86	5.96
	Tin	6 (15.24)	GR	C3PET-4006G-ND	7.71	5.85
	Tin	18 (45.72)	MC	C3PET-4018M-ND	8.83	6.70
	Tin	18 (45.72)	GR	C3PET-4018G-ND	8.38	6.36
	Tin	36 (91.44)	MC	C3PET-4036M-ND	10.28	7.80
	Tin	36 (91.44)	GR	C3PET-4036G-ND	9.38	7.12
50	Tin	6 (15.24)	MC	C3PET-5006M-ND	9.21	6.98
	Tin	6 (15.24)	GR	C3PET-5006G-ND	9.02	6.84
	Tin	18 (45.72)	MC	C3PET-5018M-ND	10.42	7.90
	Tin	18 (45.72)	GR	C3PET-5018G-ND	9.85	7.48
	Tin	36 (91.44)	MC	C3PET-5036M-ND	12.24	9.28
	Tin	36 (91.44)	GR	C3PET-5036G-ND	11.11	8.43

C☐☐☐☐-☐☐☐☐☐-ND

Style
Conn. Finish
G=Gold
T=Tin
No. Of Contacts
Length *(Use "Inches" only.)*
Ribbon Cable
M=Multi-color
G=Gray

Digi-Key® Custom Cable Assemblies Available

Call Digi-Key

CW INDUSTRIES

Protected Headers

Straight-Lead

No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
26	2.06 (52.32)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)

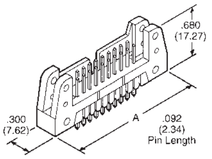

Lock Ejector Hooks, two required per connector, sold separately (see below).

Right-Angle

No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
26	2.06 (52.32)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)

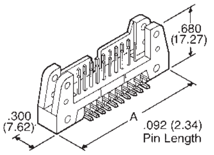

Lock Ejector Hooks, two required per connector, sold separately (see below).

Straight-Lead Wire Wrap

Lock Ejector Hooks, two required per connector, sold separately (see below)

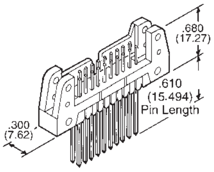

Right-Angle Wire Wrap

Lock Ejector Hooks, two required per connector, sold separately (see below)

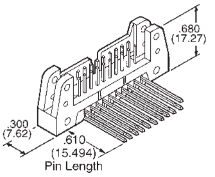

SPECIFICATIONS:

- **Contacts:** Phosphor bronze, standard
- **Contact Plating:** 10µ inch gold (in mating area) over 50µ inch nickel
- **Insulator Material:** UL 94V-0 flame-retardant thermoplastic
- **Color:** Blue
- **Operating Temperature:** -55°C ~ 125°C
- **Current Rating:** 1A (maximum) per contact
- **Dielectric Withstand Voltage:** greater than 500VDC at sea level
- **Insulation Resistance:** greater than 5 x 10^9 Ω
- U.S. Defense Department Mil-C-83503/20, 21, approved

No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	1,000
Protected Headers - Gold Finish						
10	Straight-Lead	CHS10G-ND	.99	.76	.58	.42
	Right-Angle	CHR10G-ND	.99	.76	.58	.42
	Straight-Lead WW	CHW10G-ND	2.08	1.58	1.21	.88
	Right-Angle WW	CHA10G-ND	2.08	1.58	1.21	.88
14	Straight-Lead	CHS14G-ND	1.30	.99	.76	.55
	Right-Angle	CHR14G-ND	1.30	.99	.76	.55
	Straight-Lead WW	CHW14G-ND	2.64	2.00	1.53	1.11
	Right-Angle WW	CHA14G-ND	2.64	2.00	1.53	1.11
16	Straight-Lead	CHS16G-ND	1.46	1.11	.85	.62
	Right-Angle	CHR16G-ND	1.46	1.11	.85	.62
	Straight-Lead WW	CHW16G-ND	2.98	2.26	1.73	1.25
	Right-Angle WW	CHA16G-ND	2.98	2.26	1.73	1.25
20	Straight-Lead	CHS20G-ND	1.52	1.16	.89	.64
	Right-Angle	CHR20G-ND	1.52	1.16	.89	.64
	Straight-Lead WW	CHW20G-ND	3.10	2.35	1.80	1.30
	Right-Angle WW	CHA20G-ND	3.10	2.35	1.80	1.30
26	Straight-Lead	CHS26G-ND	1.86	1.41	1.08	.78
	Right-Angle	CHR26G-ND	1.86	1.41	1.08	.78
	Straight-Lead WW	CHW26G-ND	3.72	2.82	2.16	1.56
	Right-Angle WW	CHA26G-ND	3.72	2.82	2.16	1.56
34	Straight-Lead	CHS34G-ND	2.23	1.70	1.30	.94
	Right-Angle	CHR34G-ND	2.23	1.70	1.30	.94
	Straight-Lead WW	CHW34G-ND	4.46	3.39	2.60	1.88
	Right-Angle WW	CHA34G-ND	4.46	3.39	2.60	1.88
40	Straight-Lead	CHS40G-ND	2.73	2.07	1.59	1.15
	Right-Angle	CHR40G-ND	2.73	2.07	1.59	1.15
	Straight-Lead WW	CHW40G-ND	5.43	4.12	3.15	2.28
	Right-Angle WW	CHA40G-ND	5.43	4.12	3.15	2.28
50	Straight-Lead	CHS50G-ND	3.04	2.31	1.77	1.28
	Right-Angle	CHR50G-ND	3.04	2.31	1.77	1.28
	Straight-Lead WW	CHW50G-ND	6.11	4.63	3.55	2.57
	Right-Angle WW	CHA50G-ND	6.11	4.63	3.55	2.57
60	Straight-Lead ST* (Shrouded)	CHB60G-ND	5.08	3.86	2.96	2.14
	Straight-Lead WW* (Shrouded)	CHC60G-ND	5.08	3.86	2.96	2.14
	Right-Angle ST* (Shrouded)	CHD60G-ND	3.72	2.82	2.16	1.56
	Right-Angle WW* (Shrouded)	CHE60G-ND	5.08	3.86	2.96	2.14

CLKS01-ND Lock Ejector Hooks-Short (2 required per connector). . **$.22/2**
CLKS02-ND Lock Ejector Hooks: Long - with strain relief; (2 required per connector). . . . . **$.22/2**

* Lock ejector hooks included

tyco Electronics AMP

Protected Headers

Specifications:

- Connectors recognized under component program of Under-writers Laboratories Inc. File No. E28476
- Connectors certified by Canadian Standards Association File No. LR16455
- .025" (.64mm) Sq. Posts, .240" (6.10mm) Mating Post Length
- Material and Finish: Housing and Latches — Black thermo-plastic, 94V-0 rated
- Contact Finish: 15µ or 30µ gold on post/pin mating end, .000100-.000200 bright tin-lead on termination end, with entire contact underplated .000050 nickel

Straight-Lead

No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
24	1.96 (49.78)
26	2.06 (52.32)
30	2.26 (57.40)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)
64	3.96 (100.58)

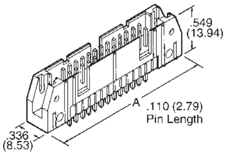

Lock Ejector Hooks, two required per connector, sold separately (see below).

No. of Contacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Pin Header Without Latches						
14	15µ"	.155 (3.94)	AHJ14G-ND	1.72	1.43	102155-2
16	30µ"	.155 (3.94)	AHJ16K-ND	2.33	1.94	102156-3
20	30µ"	.155 (3.94)	AHJ20K-ND	3.90	3.52	102156-4
24	15µ"	.155 (3.94)	AHJ24G-ND	2.55	2.13	102155-5
30	15µ"	.110 (2.79)	AHS30G-ND	4.68	4.22	102153-7
40	30µ"	.110 (2.79)	AHS40K-ND	4.35	3.92	102154-9
50	30µ"	.155 (3.94)	AHJ50K-ND	5.55	5.00	1-102156-0
64	30µ"	.110 (2.79)	AHS64K-ND	5.15	4.12	1-102154-2
	30µ"	.155 (3.94)	AHJ64K-ND	6.39	5.76	1-102156-2
Pin Header Without Latches RoHS Compliant						
10	15µ"	.110 (2.79)	AHS10H-ND	.90	.81	5102153-1
	30µ"	.110 (2.79)	AHS10L-ND	1.25	1.13	5102154-1
	15µ"	.155 (3.94)	AHJ10H-ND	1.25	1.13	5102155-1
14	15µ"	.110 (2.79)	AHS14H-ND	1.51	1.36	5102153-2
	30µ"	.110 (2.79)	AHS14L-ND	1.61	1.46	5102154-2
16	15µ"	.110 (2.79)	AHS16H-ND	1.72	1.55	5102153-3
	30µ"	.110 (2.79)	AHS16L-ND	1.98	1.79	5102154-3
	15µ"	.155 (3.94)	AHJ16H-ND	1.98	1.79	5102155-3
20	15µ"	.110 (2.79)	AHS20H-ND	2.13	1.93	5102153-4
	30µ"	.110 (2.79)	AHS20L-ND	2.34	2.11	5102154-4
	30µ"	.155 (3.94)	AHJ20L-ND	3.53	3.18	5102156-4
24	15µ"	.110 (2.79)	AHS24H-ND	2.50	2.25	5102153-5
	30µ"	.110 (2.79)	AHS24L-ND	2.76	2.49	5102154-5
	30µ"	.155 (3.94)	AHJ24L-ND‡	2.48	2.23	5102156-5
26	15µ"	.110 (2.79)	AHS26H-ND	2.71	2.44	5102153-6
	30µ"	.110 (2.79)	AHS26L-ND	2.86	2.58	5102154-6
	15µ"	.155 (3.94)	AHJ26H-ND	3.29	2.97	5102155-6
	30µ"	.155 (3.94)	AHJ26L-ND	3.12	2.82	5102156-6
30	15µ"	.110 (2.79)	AHS30H-ND	3.51	3.16	5102153-7
	30µ"	.110 (2.79)	AHS30L-ND	4.10	3.69	5102154-7
34	15µ"	.110 (2.79)	AHS34H-ND	3.52	3.18	5102153-8
	30µ"	.110 (2.79)	AHS34L-ND	2.90	2.62	5102154-8
	15µ"	.155 (3.94)	AHJ34H-ND	2.90	2.62	5102155-8
	30µ"	.155 (3.94)	AHJ34L-ND	3.08	2.77	5102156-8
40	15µ"	.110 (2.79)	AHS40H-ND	3.25	2.93	5102153-9
	30µ"	.110 (2.79)	AHS40L-ND	3.33	3.00	5102154-9
	15µ"	.155 (3.94)	AHJ40H-ND	3.83	3.45	5102155-9
	30µ"	.155 (3.94)	AHJ40L-ND	3.54	3.19	5102156-9
50	15µ"	.110 (2.79)	AHS50H-ND	4.69	4.22	1-5102153-0
	30µ"	.110 (2.79)	AHS50L-ND	4.79	4.32	1-5102154-0
	15µ"	.155 (3.94)	AHJ50H-ND	5.51	4.96	1-5102155-0
	30µ"	.155 (3.94)	AHJ50L-ND	5.22	4.70	1-5102156-0
60	30µ"	.110 (2.79)	AHS60L-ND	5.55	5.00	1-5102154-1
	30µ"	.155 (3.94)	AHJ60L-ND	6.69	6.03	1-5102156-1
64	15µ"	.110 (2.79)	AHS64H-ND	6.18	5.57	1-5102153-2
	30µ"	.110 (2.79)	AHS64L-ND	5.70	5.13	1-5102154-2
	15µ"	.155 (3.94)	AHJ64H-ND	8.73	7.86	1-5102155-2
	30µ"	.155 (3.94)	AHJ64L-ND	5.94	5.35	1-5102156-2
Pin Header With ACTION PIN Contacts						
16	30µ"	.174 (4.42)	AHA16A-ND	3.23	2.91	499582-3
26	30µ"	.174 (4.42)	AHA26A-ND	4.79	4.32	499582-6
30	30µ"	.174 (4.42)	AHA30A-ND	5.40	4.87	499582-7
34	30µ"	.174 (4.42)	AHA34A-ND	5.91	5.32	499582-8
64	30µ"	.174 (4.42)	AHA64A-ND	9.87	8.89	1-499582-2
Pin Header With ACTION PIN Contacts RoHS Compliant						
10	30µ"	.174 (4.42)	AHA10B-ND	1.98	1.79	1658694-6
14	30µ"	.174 (4.42)	AHA14B-ND	2.71	2.44	1658694-7
16	30µ"	.174 (4.42)	AHA16B-ND	3.02	2.72	1658694-8
20	30µ"	.174 (4.42)	AHA20B-ND	3.54	3.19	1658694-1
24	30µ"	.174 (4.42)	AHA24B-ND	4.27	3.85	1658694-9
26	30µ"	.174 (4.42)	AHA26B-ND	4.48	4.03	1658694-2
30	30µ"	.174 (4.42)	AHA30B-ND	4.14	3.73	1-1658694-0
34	30µ"	.174 (4.42)	AHA34B-ND	4.53	4.08	1-1658694-1
40	30µ"	.174 (4.42)	AHA40B-ND	4.98	4.49	1-1658694-3
50	30µ"	.174 (4.42)	AHA50B-ND	6.81	6.13	1658694-4
64	30µ"	.174 (4.42)	AHA64B-ND	9.27	8.35	1658694-5
Pin Header With Short Latches						
14	30µ"	.155 (3.94)	AHG14A-ND	4.41	3.97	499374-2
20	30µ"	.110 (2.79)	AHE20A-ND	10.02	9.02	499160-4
26	30µ"	.155 (3.94)	AHG26A-ND	4.66	4.19	499374-6
30	15µ"	.110 (2.79)	AHE30G-ND	6.69	6.02	499910-7
40	30µ"	.110 (2.79)	AHE40A-ND	6.90	6.21	499160-9
Pin Header With Short Latches RoHS Compliant						
10	15µ"	.110 (2.79)	AHE10H-ND	1.82	1.64	5499910-1
	30µ"	.110 (2.79)	AHE10B-ND	1.93	1.74	5499160-1
	30µ"	.155 (3.94)	AHG10B-ND	2.22	2.00	5499374-1
14	15µ"	.110 (2.79)	AHE14H-ND	2.50	2.25	5499910-2
	30µ"	.155 (3.94)	AHG14B-ND	4.12	3.71	5499374-2
16	15µ"	.110 (2.79)	AHE16H-ND	2.76	2.49	5499910-3
	30µ"	.110 (2.79)	AHE16B-ND	2.97	2.68	5499160-3

‡ ***NEW!***

(Continued)

tyco Electronics **AMP**

Protected Headers *(Cont.)*

Straight-Lead

No. of Contacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
20	15μ"	.110 (2.79)	AHE20H-ND	3.38	3.05	5499910-4
	30μ"	.110 (2.79)	AHE20B-ND	6.36	5.73	5499160-4
	30μ"	.155 (3.94)	AHG20B-ND	5.25	4.73	5499374-4
24	15μ"	.110 (2.79)	AHE24H-ND	3.91	3.52	5499910-5
	30μ"	.155 (3.94)	AHG24B-ND	4.27	3.85	5499374-5
26	15μ"	.110 (2.79)	AHE26H-ND	3.42	3.08	5499910-6
	30μ"	.110 (2.79)	AHE26B-ND	4.48	4.03	5499160-6
	30μ"	.155 (3.94)	AHG26B-ND	4.22	3.81	5499374-6
30	15μ"	.110 (2.79)	AHE30H-ND	6.06	5.45	5499910-7
34	15μ"	.110 (2.79)	AHE34H-ND	4.23	3.81	5499910-8
	30μ"	.110 (2.79)	AHE34B-ND	4.56	4.11	5499160-8
	30μ"	.155 (3.94)	AHG34B-ND	6.39	5.76	5499374-8
40	15μ"	.110 (2.79)	AHE40H-ND	5.91	5.32	5499910-9
	30μ"	.110 (2.79)	AHE40B-ND	6.42	5.78	5499160-9
	30μ"	.155 (3.94)	AHG40B-ND	8.16	7.35	5499374-9
50	15μ"	.110 (2.79)	AHE50H-ND	7.17	6.46	1-5499910-0
	30μ"	.110 (2.79)	AHE50B-ND	7.83	7.05	1-5499160-0
	30μ"	.155 (3.94)	AHG50B-ND	7.83	7.05	1-5499374-0
Pin Header With Long Latches						
24	15μ"	.110 (2.79)	AHK24G-ND	4.18	3.77	499922-5
26	30μ"	.110 (2.79)	AHK26A-ND	3.90	3.51	499206-6
30	30μ"	.110 (2.79)	AHK30A-ND	5.40	4.87	499206-7
	30μ"	.155 (3.94)	AHL30A-ND	5.40	4.87	102321-7
34	15μ"	.155 (3.94)	AHL34G-ND	8.10	7.29	499923-8
60	30μ"	.155 (3.94)	AHL60A-ND	12.51	11.26	1-102321-1
64	30μ"	.110 (2.79)	AHK64A-ND	12.54	11.29	1-499206-2
Pin Header With Long Latches RoHS Compliant						
10	15μ"	.110 (2.79)	AHK10H-ND	2.47	2.23	5499922-1
	30μ"	.110 (2.79)	AHK10B-ND	1.82	1.64	5499206-1
	15μ"	.155 (3.94)	AHL10H-ND	2.76	2.49	5499923-1
	30μ"	.155 (3.94)	AHL10B-ND	1.93	1.74	5102321-1
14	15μ"	.110 (2.79)	AHK14H-ND	2.50	2.25	5499922-2
	30μ"	.110 (2.79)	AHK14B-ND	2.66	2.39	5499206-2
	30μ"	.155 (3.94)	AHL14B-ND	2.51	2.26	5102321-2
16	15μ"	.110 (2.79)	AHK16H-ND	3.75	3.38	5499922-3
	30μ"	.110 (2.79)	AHK16B-ND	2.97	2.68	5499206-3
	15μ"	.155 (3.94)	AHL16H-ND	2.25	2.03	5499923-3
	30μ"	.155 (3.94)	AHL16B-ND	2.97	2.68	5102321-3
20	15μ"	.110 (2.79)	AHK20H-ND	4.59	4.14	5499922-4
	30μ"	.110 (2.79)	AHK20B-ND	3.59	3.24	5499206-4
	15μ"	.155 (3.94)	AHL20H-ND	2.76	2.49	5499923-4
	30μ"	.155 (3.94)	AHL20B-ND	3.59	3.24	5102321-4
24	15μ"	.110 (2.79)	AHK24H-ND	3.91	3.52	5499922-5
	30μ"	.110 (2.79)	AHK24B-ND	4.27	3.85	5499206-5
26	15μ"	.110 (2.79)	AHK26H-ND	4.17	3.75	5499922-6
	30μ"	.110 (2.79)	AHK26B-ND	3.65	3.29	5499206-6
	15μ"	.155 (3.94)	AHL26H-ND	3.93	3.54	5499923-6
	30μ"	.155 (3.94)	AHL26B-ND	4.48	4.03	5102321-6
30	30μ"	.110 (2.79)	AHK30B-ND	5.05	4.55	5499206-7
	15μ"	.155 (3.94)	AHL30H-ND	3.81	3.43	5499923-7
	30μ"	.155 (3.94)	AHL30B-ND	5.05	4.55	5102321-7
34	15μ"	.110 (2.79)	AHK34H-ND	4.75	4.28	5499922-8
	30μ"	.110 (2.79)	AHK34B-ND	5.55	5.00	5499206-8
	15μ"	.155 (3.94)	AHL34H-ND	12.21	10.99	5499923-8
	30μ"	.155 (3.94)	AHL34B-ND	5.55	5.00	5102321-8
40	15μ"	.110 (2.79)	AHK40H-ND	14.10	12.69	5499922-9
	30μ"	.110 (2.79)	AHK40B-ND	6.42	5.78	5499206-9
	15μ"	.155 (3.94)	AHL40H-ND	4.86	4.38	5499923-9
	30μ"	.155 (3.94)	AHL40B-ND	6.42	5.78	5102321-9
50	15μ"	.110 (2.79)	AHK50H-ND	6.60	5.94	1-5499922-0
	30μ"	.110 (2.79)	AHK50B-ND	6.75	6.08	1-5499206-0
	15μ"	.155 (3.94)	AHL50H-ND	5.94	5.35	1-5499923-0
	30μ"	.155 (3.94)	AHL50B-ND	7.83	7.05	1-5102321-0
60	15μ"	.110 (2.79)	AHK60H-ND	8.40	7.56	1-5499922-1
	30μ"	.110 (2.79)	AHK60B-ND	9.15	8.24	1-5499206-1
	15μ"	.155 (3.94)	AHL60H-ND	11.70	10.53	1-5499923-1
	30μ"	.155 (3.94)	AHL60B-ND	11.61	10.45	1-5102321-1
64	15μ"	.110 (2.79)	AHK64H-ND	8.70	7.83	1-5499922-2
	30μ"	.110 (2.79)	AHK64B-ND	11.73	10.56	1-5499206-2
	15μ"	.155 (3.94)	AHL64H-ND	12.12	10.91	1-5499923-2
	30μ"	.155 (3.94)	AHL64B-ND	9.51	8.56	1-5102321-2
Lock Ejector Hooks (2 Required per Connector)						
Short			ALSN01-ND	.62/2		102312-1
Long w/o Push Tabs			ALLN01-ND	.64/2		102320-1
Pin Header Mounting Kit †						
Bolt and Nut, 2 each/kit			A26333-ND	1.70	—	102198-1

‡ ***NEW!***

† 2-56 bolts and nuts may be used to mount pin headers with and without latches. If latches are to be used, the bolts must be positioned in the pin header before the latches are installed.

Right-Angle

No. of Pins	Dim. A In. (mm)
10	1.26 (32.00)
14	1.46 (37.08)
16	1.56 (39.62)
20	1.76 (44.70)
24	1.96 (49.78)
26	2.06 (52.32)
30	2.26 (57.40)
34	2.46 (62.48)
40	2.76 (70.10)
50	3.26 (82.80)
60	3.76 (95.50)
64	3.96 (100.58)

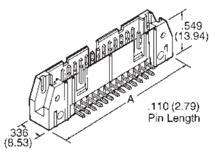

Lock Ejector Hooks, two required per connector, sold separately.

No. of Contacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
Right-Angle Pin Headers Without Latches						
10	15μ"	.110 (2.79)	AHR10G-ND	1.29	1.17	102159-1
14	15μ"	.155 (3.94)	AHZ14G-ND	3.86	3.48	102161-2
16	30μ"	.110 (2.79)	AHR16K-ND	2.70	2.43	102160-3
	15μ"	.155 (3.94)	AHZ16G-ND	2.31	1.93	102161-3
26	30μ"	.110 (2.79)	AHR26K-ND	3.34	3.01	102160-6
	15μ"	.155 (3.94)	AHZ26G-ND	4.04	3.36	102161-6
30	15μ"	.155 (3.94)	AHZ30G-ND	4.57	4.12	102161-7
	30μ"	.155 (3.94)	AHZ30K-ND	4.82	4.34	102162-7
34	30μ"	.155 (3.94)	AHZ34K-ND	5.35	4.82	102162-8
40	30μ"	.155 (3.94)	AHZ40K-ND	5.09	4.24	102162-9
50	15μ"	.155 (3.94)	AHZ50G-ND	5.31	4.78	1-102161-0
	30μ"	.155 (3.94)	AHZ50K-ND	6.45	5.81	1-102162-0
60	15μ"	.110 (2.79)	AHR60G-ND	14.37	12.94	1-102159-1
	30μ"	.110 (2.79)	AHR60K-ND	6.45	5.81	1-102160-1
	15μ"	.155 (3.94)	AHZ60G-ND	7.21	6.00	1-102161-1
Right-Angle Pin Headers without Latches RoHS Compliant						
10	15μ"	.110 (2.79)	AHR10H-ND	1.25	1.13	5102159-1
	30μ"	.110 (2.79)	AHR10L-ND	1.46	1.32	5102160-1
14	15μ"	.110 (2.79)	AHR14H-ND	1.61	1.46	5102159-2
	15μ"	.155 (3.94)	AHZ14H-ND	3.49	3.15	5102161-2
16	15μ"	.110 (2.79)	AHR16H-ND	1.98	1.79	5102159-3
	30μ"	.110 (2.79)	AHR16L-ND	2.45	2.21	5102160-3
20	15μ"	.110 (2.79)	AHR20H-ND	2.34	2.11	5102159-4
	30μ"	.110 (2.79)	AHR20L-ND	2.60	2.35	5102160-4
	15μ"	.155 (3.94)	AHZ20H-ND	4.71	4.24	5102161-4
24	30μ"	.110 (2.79)	AHR24L-ND	3.02	2.72	5102160-5
	15μ"	.155 (3.94)	AHZ24H-ND	3.59	3.24	5102161-5
26	15μ"	.110 (2.79)	AHR26H-ND	2.86	2.58	5102159-6
	30μ"	.110 (2.79)	AHR26L-ND	3.12	2.82	5102160-6
30	15μ"	.110 (2.79)	AHR30H-ND	3.23	2.91	5102159-7
	15μ"	.155 (3.94)	AHZ30H-ND	4.27	3.85	5102161-7
	30μ"	.155 (3.94)	AHZ30L-ND	4.37	3.94	5102162-7
34	15μ"	.110 (2.79)	AHR34H-ND	2.90	2.62	5102159-8
	30μ"	.110 (2.79)	AHR34L-ND	3.08	2.77	5102160-8
	15μ"	.155 (3.94)	AHZ34H-ND	4.74	4.27	5102161-8
	30μ"	.155 (3.94)	AHZ34L-ND	4.85	4.37	5102162-8
40	15μ"	.110 (2.79)	AHR40H-ND	3.33	3.00	5102159-9
	30μ"	.110 (2.79)	AHR40L-ND	3.54	3.19	5102160-9
50	15μ"	.110 (2.79)	AHR50H-ND	4.79	4.32	1-5102159-0
	30μ"	.110 (2.79)	AHR50L-ND	5.22	4.70	1-5102160-0
	30μ"	.155 (3.94)	AHZ50L-ND	5.79	5.22	1-5102162-0
60	15μ"	.110 (2.79)	AHR60H-ND	8.70	7.83	1-5102159-1
	30μ"	.110 (2.79)	AHR60L-ND	5.79	5.22	1-5102160-1
	30μ"	.155 (3.94)	AHZ60L-ND	7.77	7.00	1-5102162-1
64	15μ"	.110 (2.79)	AHR64H-ND	7.74	6.97	1-5102159-2
	30μ"	.110 (2.79)	AHR64L-ND	5.94	5.35	1-5102160-2
	30μ"	.155 (3.94)	AHZ64L-ND	6.99	6.30	1-5102162-2
Headers with Short Latches						
24	15μ"	.110 (2.79)	AHB24G-ND	9.15	8.24	499913-5
	30μ"	.110 (2.79)	AHB24K-ND	9.75	8.78	499345-5
30	15μ"	.110 (2.79)	AHB30G-ND	7.91	7.13	499913-7
34	30μ"	.110 (2.79)	AHB34K-ND	5.64	4.69	499345-8
50	30μ"	.110 (2.79)	AHB50K-ND	7.77	7.00	1-499345-0
60	15μ"	.110 (2.79)	AHB60G-ND	19.65	17.69	1-499913-1
Headers with Short Latches RoHS Compliant						
10	15μ"	.110 (2.79)	AHB10H-ND	1.93	1.74	5499913-1
	30μ"	.110 (2.79)	AHB10L-ND	3.63	3.27	5499345-1
14	15μ"	.110 (2.79)	AHB14H-ND	2.66	2.39	5499913-2
16	15μ"	.110 (2.79)	AHB16H-ND	2.97	2.68	5499913-3
20	15μ"	.110 (2.79)	AHB20H-ND	5.36	4.83	5499913-4
24	15μ"	.110 (2.79)	AHB24H-ND	6.55	5.90	5499913-5
	30μ"	.110 (2.79)	AHB24L-ND	7.00	6.30	5499345-5
26	15μ"	.110 (2.79)	AHB26H-ND	3.67	3.31	5499913-6
30	15μ"	.110 (2.79)	AHB30H-ND	7.37	6.64	5499913-7
34	15μ"	.110 (2.79)	AHB34H-ND	5.55	5.00	5499913-8
40	15μ"	.110 (2.79)	AHB40H-ND	5.31	4.78	5499913-9
	30μ"	.110 (2.79)	AHB40L-ND	7.05	6.35	5499345-9
50	15μ"	.110 (2.79)	AHB50H-ND	18.66	16.80	1-5499913-0
	30μ"	.110 (2.79)	AHB50L-ND	7.02	6.32	1-5499345-0
60	15μ"	.110 (2.79)	AHB60H-ND	14.04	12.64	1-5499913-1
Headers with Long Latches						
20	30μ"	.155 (3.94)	AHT20K-ND	9.10	8.19	102322-4
24	15μ"	.110 (2.79)	AHC24G-ND	5.41	4.88	499786-5
30	30μ"	.110 (2.79)	AHC30K-ND	11.61	10.45	499141-7
34	30μ"	.155 (3.94)	AHT34K-ND	8.34	7.51	102322-8
64	30μ"	.110 (2.79)	AHC64K-ND	23.52	21.17	1-499141-2
Headers with Long Latches RoHS Compliant						
10	15μ"	.110 (2.79)	AHC10H-ND	1.93	1.74	5499786-1
	30μ"	.110 (2.79)	AHC10L-ND	2.13	1.93	5499141-1
	30μ"	.155 (3.94)	AHT10L-ND	2.34	2.11	5102322-1
14	15μ"	.110 (2.79)	AHC14H-ND	2.66	2.39	5499786-2
	30μ"	.110 (2.79)	AHC14L-ND	2.92	2.63	5499141-2

(Continued)

tyco Electronics AMP

Protected Headers *(Cont.)*

Right-Angle

No.of Con-tacts	Cont. Gold Plat.	Post Length Inch (mm)	Digi-Key Part No.	Price Each 1	10	AMP Part No.
16	30µ"	.110 (2.79)	AHC16L-ND	3.23	2.91	5499141-3
	30µ"	.155 (3.94)	AHT16L-ND	4.81	4.33	5102322-3
20	15µ"	.110 (2.79)	AHC20H-ND	3.59	3.24	5499786-4
	30µ"	.110 (2.79)	AHC20L-ND	4.55	4.10	5499141-4
	30µ"	.155 (3.94)	AHT20L-ND	6.53	5.88	5102322-4
24	15µ"	.110 (2.79)	AHC24H-ND	4.91	4.42	5499786-5
26	15µ"	.110 (2.79)	AHC26H-ND	3.67	3.31	5499786-6
	30µ"	.110 (2.79)	AHC26L-ND	4.06	3.66	5499141-6
	30µ"	.155 (3.94)	AHT26L-ND	5.10	4.59	5102322-6
30	30µ"	.110 (2.79)	AHC30L-ND	10.80	9.72	5499141-7
34	15µ"	.110 (2.79)	AHC34H-ND	5.55	5.00	5499786-8
	30µ"	.110 (2.79)	AHC34L-ND	4.98	4.49	5499141-8
	30µ"	.155 (3.94)	AHT34L-ND	7.59	6.84	5102322-8
40	15µ"	.110 (2.79)	AHC40H-ND	6.42	5.78	5499786-9
	30µ"	.110 (2.79)	AHC40L-ND	7.05	6.35	5499141-9
50	15µ"	.110 (2.79)	AHC50H-ND	7.83	7.05	1-5499786-0
	30µ"	.110 (2.79)	AHC50L-ND	8.58	7.73	1-5499141-0
60	15µ"	.110 (2.79)	AHC60H-ND	12.78	11.51	1-5499786-1
	30µ"	.110 (2.79)	AHC60L-ND	8.22	7.40	1-5499141-1
64	15µ"	.110 (2.79)	AHC64H-ND	7.80	7.02	1-5499786-2
	30µ"	.110 (2.79)	AHC64L-ND	16.35	14.72	1-5499141-2
Lock Ejector Hooks (2 Required per Connector)						
Short			ALSN01-ND	.62/2		102312-1
Long w/o Push Tabs			ALLN01-ND	.64/2		102320-1

tyco Electronics AMP

Low Profile - 4 Sided Protective Headers - .100 x .100 Centers

Specifications:

- .025" (.64mm) Square Posts, .240" (6.10mm) Mating Post Length.
- Material and Finish: Housing and Latches — Black thermo-plastic, 94V-0 rated.
- Contact Finish: 15µ or 30µ gold on post/pin mating end, 100µ-200µ bright tin-lead on termination end, with entire contact underplated 50µ nickel.

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
24	1.40 (35.56)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)

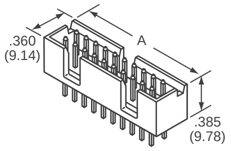

No. of Contacts	Contact Gold Plating	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Shrouded with .150" (3.81mm) End Dimension Double Row - Straight Post					
20	15µ"	A26273-ND	1.78	1.28	103308-5
40	15µ"	A26279-ND	2.73	1.96	103308-8
50	15µ"	A26281-ND	2.85	2.05	1-103308-0
Shrouded with .150" (3.81mm) End Dimension Double Row - Straight Post RoHS Compliant					
10	15µ"	A31134-ND	2.46	1.52	1761602-3
	30µ"	A31142-N D	2.34	1.68	1761603-3
14	15µ"	A31135-ND	2.77	1.99	1761602-5
	30µ"	A31143-ND	3.33	2.39	1761603-5
16	15µ"	A31136-ND	3.33	2.39	1761602-6
	30µ"	A31144-ND	3.72	2.67	1761603-6
20	15µ"	A31137-ND	3.69	2.65	1761602-7
	30µ"	A31145-ND	4.19	3.01	1761603-7
26	15µ"	A31138-ND	4.06	2.92	1761602-9
	30µ"	A31146-ND	4.93	3.54	1761603-9
34	15µ"	A31139-ND	5.30	3.80	1-1761602-1
	30µ"	A31147-ND	5.67	4.07	1-1761603-1
40	30µ"	A31148-ND	7.89	5.66	1-1761603-3
50	15µ"	A31140-ND	5.91	4.24	1-1761602-5
	30µ"	A31149-ND	7.51	5.39	1-1761603-5
60	15µ"	A31141-ND	11.70	8.39	1-1761602-6
High Temp. Housing With Board Retention Feature RoHS Compliant					
10	15µ"	A31196-ND	3.33	2.39	1761610-3
14	15µ"	A31197-ND	2.90	2.08	1761610-5
16	15µ"	A31198-ND	4.53	3.25	1761610-6
20	15µ"	A31199-ND	3.84	2.75	1761610-7
24	15µ"	A31200-ND	5.94	4.26	1761610-8
34	15µ"	A31201-ND	7.74	5.55	1-1761610-1
40	15µ"	A31202-ND	5.63	4.04	1-1761610-3
50	15µ"	A31203-ND	6.99	5.02	1-1761610-5

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)

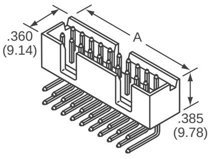

No.of Contacts	Contact Gold Plating	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Shrouded with .150" (3.81mm) End Dimension Double Row - Right-Angle Post					
14	30µ"	A26288-ND	4.05	2.91	103311-2
Shrouded with .150" (3.81mm) End Dimension Double Row - Right-Angle Post RoHS Compliant					
10	15µ"	A31150-ND	2.37	1.70	1761604-3
	30µ"	A31158-ND	2.61	1.88	1761605-3
14	15µ"	A31151-ND	3.15	2.26	1761604-5
	30µ"	A31159-ND	3.48	2.50	1761605-5
16	15µ"	A31152-ND	2.61	1.88	1761604-6
	30µ"	A31160-ND	3.90	2.80	1761605-6
20	15µ"	A31153-ND	4.20	3.01	1761604-7
	30µ"	A31161-ND	4.43	3.18	1761605-7
26	15µ"	A31154-ND	5.16	3.70	1761604-9
	30µ"	A31162-ND	6.16	4.42	1761605-9
34	15µ"	A31155-ND	6.48	4.65	1-1761604-1
	30µ"	A31163-ND	7.29	5.23	1-1761605-1
40	15µ"	A31156-ND	7.29	5.23	1-1761604-3
	30µ"	A31164-ND	8.13	5.83	1-1761605-3
50	15µ"	A31157-ND	8.62	6.18	1-1761604-5
	30µ"	A31165-ND	9.90	7.10	1-1761605-5
60	30µ"	A31166-ND	9.24	6.63	1-1761605-6

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)

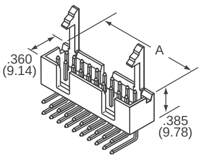

No.of Con-tacts	Contact Gold Plating	Latching Height Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Right Angle Post						
14	30µ"	.585 (14.9)	A26303-ND	9.48	6.80	104130-2
26	30µ"	.585 (14.9)	A26306-ND	4.51	3.24	104130-5
40	30µ"	.585 (14.9)	A26309-ND	5.55	3.98	104130-7
50	30µ"	.585 (14.9)	A26311-ND	9.09	6.52	104130-9
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Right Angle Post RoHS Compliant						
10	30µ"	.585 (14.9)	A31176-ND	6.23	4.47	1761607-3
	30µ"	.435 (11.0)	A31192-ND	8.13	5.83	1761609-3
14	30µ"	.585 (14.9)	A31177-ND	9.00	6.45	1761607-5
16	30µ"	.585 (14.9)	A31178-ND	9.39	6.73	1761607-6
20	30µ"	.585 (14.9)	A31179-ND	10.20	7.31	1761607-7
26	30µ"	.585 (14.9)	A31180-ND	8.66	6.21	1761607-9
	30µ"	.435 (11.0)	A31193-ND	11.31	8.11	1761609-9
34	30µ"	.585 (14.9)	A31181-ND	12.81	9.19	1-1761607-1
40	30µ"	.435 (11.0)	A31194-ND	14.16	10.15	1-1761609-3
50	30µ"	.585 (14.9)	A31182-ND	11.73	8.41	1-1761607-5
	30µ"	.435 (11.0)	A31195-ND	15.42	11.06	1-1761609-5

No. of Pins	Dim. A In. (mm)
10	.800 (20.32)
14	1.00 (25.40)
16	1.10 (27.94)
20	1.30 (33.02)
26	1.60 (40.64)
34	2.00 (50.80)
40	2.30 (58.42)
50	2.80 (71.12)
60	3.30 (83.82)

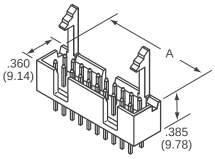

No.of Con-tacts	Contact Gold Plating	Latching Height Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Straight Post						
20	30µ"	.435 (11.0)	A26320-ND	3.93	2.82	104313-4
50	30µ"	.585 (14.9)	A26327-ND	15.72	11.27	104128-9
	30µ"	.435 (11.0)	A26328-ND	15.72	11.27	104313-9
Shrouded with Ejection Latches and .150" (3.81mm) End Dimension Double Row - Straight Post RoHS Compliant						
10	30µ"	.585 (14.9)	A31167-ND	5.96	4.27	1761606-3
	30µ"	.435 (11.0)	A31183-ND	5.96	4.27	1761608-3
14	30µ"	.585 (14.9)	A31168-ND	8.85	6.35	1761606-5
	30µ"	.435 (11.0)	A31184-ND	8.85	6.35	1761608-5
16	30µ"	.585 (14.9)	A31169-ND	9.24	6.63	1761606-6
	30µ"	.435 (11.0)	A31185-ND	9.24	6.63	1761608-6
20	30µ"	.585 (14.9)	A31170-ND	9.96	7.14	1761606-7
	30µ"	.435 (11.0)	A31186-ND	9.96	7.14	1761608-7
26	30µ"	.585 (14.9)	A31171-ND	7.94	5.70	1761606-9
	30µ"	.435 (11.0)	A31187-ND	11.07	7.94	1761608-9
34	30µ"	.585 (14.9)	A31172-ND	12.48	8.95	1-1761606-1
	30µ"	.435 (11.0)	A31188-ND	12.48	8.95	1-1761608-1
40	30µ"	.585 (14.9)	A31173-ND	13.41	9.62	1-1761606-3
	30µ"	.435 (11.0)	A31189-ND	13.41	9.62	1-1761608-3
50	30µ"	.585 (14.9)	A31174-ND	15.03	10.78	1-1761606-5
	30µ"	.435 (11.0)	A31190-ND	15.03	10.78	1-1761608-5
60	30µ"	.585 (14.9)	A31175-ND	9.36	6.71	1-1761606-6
	30µ"	.435 (11.0)	A31191-ND	17.55	12.58	1-1761608-6

3M D-Subminiature Connectors

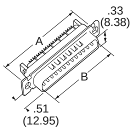

Plug

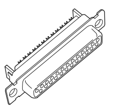

Receptacle

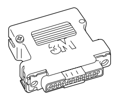

Backshell

Wire Accommodation: 26 and 28AWG solid or stranded
Order strain reliefs separately.

Physical Specifications:
- Contact Material: Beryllium copper plating
- Underplate: 50µ" nickel, QQ-N-290, Class 2
- Wiping Area: 30µ" gold, MIL-G-45204, Type II, Grade C
- Shell Material: Steel
- Plating: Tin
- Strain Relief Material: Stainless steel, .016" (.41mm) thick
- Marking: 3M logo and contact position number

Electrical Specifications:
- Current Rating: 1A
- Insulation Resistance: >1x10^{9}Ω @ 500VDC
- Withstanding Voltage: 1000VRMS @ sea level

Environmental Specifications:
- Temperature Rating: -55°C ~ 105°C
- UL File No.: E68080; CSA File No.: LR-40971.

No. of Cont.	Dimensions – In. (mm) A	B	Digi-Key Part No.	Pricing 1	10	3M Part No.
Plugs with flange, thru-hole style, Male						
9	.98 (24.89)	.67 (17.02)	MMR09K-ND	5.01	42.18	8209-6000
15	1.31 (33.27)	1.00 (25.40)	MMR15K-ND	5.70	47.95	8215-6000
25	1.85 (46.99)	1.54 (39.12)	MMR25K-ND	6.47	54.43	8225-6000
37	2.50 (63.50)	2.18 (55.37)	MMR37K-ND	8.36	70.35	8237-6000
Plugs with 4-40 threaded insert, Male						
9	.98 (24.89)	.67 (17.02)	MML09K-ND	6.14	51.63	8209-6003
15	1.31 (33.27)	1.00 (25.40)	MML15K-ND	6.82	57.40	8215-6003
25	1.85 (46.99)	1.54 (39.12)	MML25K-ND	7.36	61.95	8225-6003
37	2.50 (63.50)	2.18 (55.37)	MML37K-ND	9.13	76.83	8237-6003
50	2.40 (60.96)	2.074 (52.68)	MML50K-ND	18.20	153.13	8250-6005
Receptacles with flange, thru-hole style, Female						
9	.98 (24.89)	.67 (17.02)	MFR09K-ND	5.14	43.23	8309-6000
15	1.31 (33.27)	.97 (24.64)	MFR15K-ND	5.91	49.70	8315-6000
25	1.85 (46.99)	1.51 (38.35)	MFR25K-ND	6.57	55.30	8325-6000
37	2.50 (63.50)	2.16 (54.86)	MFR37K-ND	8.49	71.40	8337-6000
Receptacles with 4-40 threaded insert, Female						
9	.98 (24.89)	.67 (17.02)	MFL09K-ND	6.26	52.68	8309-6003
15	1.31 (33.27)	.97 (24.64)	MFL15K-ND	7.03	59.15	8315-6003
25	1.85 (46.99)	1.51 (38.35)	MFL25K-ND	7.47	62.83	8325-6003
37	2.50 (63.50)	2.16 (54.86)	MFL37K-ND	9.13	76.83	8337-6003
50	2.40 (60.96)	2.068(52.53)	MFL50K-ND	18.20	153.13	8350-6005
Backshells						
9	—	—	MDBF09-ND	3.58	30.10	3485-2100F
15	—	—	MDBF15-ND	3.58	30.10	3485-2200F
25	—	—	MDBF25-ND	3.58	30.10	3485-2300F
37	—	—	MDBF37-ND	4.18	35.18	3485-2400F
50	—	—	MDBF50-ND	3.58	30.10	3485-2500F
Strain Relief						
9	—	—	MDSR09-ND	.25	2.10	3448-8D09A
15	—	—	MDSR15-ND	.33	2.80	3448-8D15A
25	—	—	MDSR25-ND	.33	2.80	3448-8D25A
37	—	—	MDSR37-ND	.33	2.80	3448-8D37A
50	—	—	MDSR50-ND	.62	5.25	3448-8D50A

D-Sub Cable Assemblies

Single Ended Male

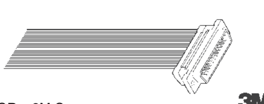

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7PXK-0906R-ND	11.44	100.32
	Au 30µ"	6 (1.83)	GR	M7PXK-0906J-ND	10.04	88.01
	Au 30µ"	10 (3.05)	MC	M7PXK-0910R-ND	13.59	119.13
	Au 30µ"	10 (3.05)	GR	M7PXK-0910J-ND	11.25	98.61
15	Au 30µ"	6 (1.83)	MC	M7PXK-1506R-ND	14.57	127.79
	Au 30µ"	6 (1.83)	GR	M7PXK-1506J-ND	12.32	108.07
	Au 30µ"	10 (3.05)	MC	M7PXK-1510R-ND	18.01	157.89
	Au 30µ"	10 (3.05)	GR	M7PXK-1510J-ND	14.26	125.01
25	Au 30µ"	6 (1.83)	MC	M7PXK-2506R-ND	18.99	166.55
	Au 30µ"	6 (1.83)	GR	M7PXK-2506J-ND	15.34	134.50
	Au 30µ"	10 (3.05)	MC	M7PXK-2510R-ND	24.57	215.46
	Au 30µ"	10 (3.05)	GR	M7PXK-2510J-ND	18.48	162.03
37	Au 30µ"	6 (1.83)	MC	M7PXK-3706R-ND	25.49	223.53
	Au 30µ"	6 (1.83)	GR	M7PXK-3706J-ND	20.29	177.92
	Au 30µ"	10 (3.05)	MC	M7PXK-3710R-ND	33.43	293.12
	Au 30µ"	10 (3.05)	GR	M7PXK-3710J-ND	24.76	217.11

Also available in the following configurations:
M7NXK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7VXK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Single Ended Female

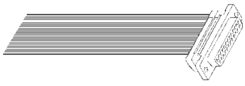

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7SXK-0906R-ND	11.64	102.03
	Au 30µ"	6 (1.83)	GR	M7SXK-0906J-ND	10.23	89.72
	Au 30µ"	10 (3.05)	MC	M7SXK-0910R-ND	13.78	120.84
	Au 30µ"	10 (3.05)	GR	M7SXK-0910J-ND	11.44	100.32
15	Au 30µ"	6 (1.83)	MC	M7SXK-1506R-ND	14.90	130.64
	Au 30µ"	6 (1.83)	GR	M7SXK-1506J-ND	12.65	110.92
	Au 30µ"	10 (3.05)	MC	M7SXK-1510R-ND	18.33	160.74
	Au 30µ"	10 (3.05)	GR	M7SXK-1510J-ND	14.58	127.86
25	Au 30µ"	6 (1.83)	MC	M7SXK-2506R-ND	19.16	167.98
	Au 30µ"	6 (1.83)	GR	M7SXK-2506J-ND	15.50	135.92
	Au 30µ"	10 (3.05)	MC	M7SXK-2510R-ND	24.73	216.89
	Au 30µ"	10 (3.05)	GR	M7SXK-2510J-ND	18.64	163.46
37	Au 30µ"	6 (1.83)	MC	M7SXK-3706R-ND	25.68	225.24
	Au 30µ"	6 (1.83)	GR	M7SXK-3706J-ND	20.48	179.63
	Au 30µ"	10 (3.05)	MC	M7SXK-3710R-ND	33.62	294.83
	Au 30µ"	10 (3.05)	GR	M7SXK-3710J-ND	24.95	218.82

Also available in the following configurations:
M7OXK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7WXK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Male to Male

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7PPK-0906R-ND	19.66	172.43
	Au 30µ"	6 (1.83)	GR	M7PPK-0906J-ND	18.26	160.11
	Au 30µ"	10 (3.05)	MC	M7PPK-0910R-ND	21.81	191.24
	Au 30µ"	10 (3.05)	GR	M7PPK-0910J-ND	19.47	170.72
15	Au 30µ"	6 (1.83)	MC	M7PPK-1506R-ND	24.00	210.44
	Au 30µ"	6 (1.83)	GR	M7PPK-1506J-ND	21.75	190.72
	Au 30µ"	10 (3.05)	MC	M7PPK-1510R-ND	27.43	240.54
	Au 30µ"	10 (3.05)	GR	M7PPK-1510J-ND	23.68	207.66
25	Au 30µ"	6 (1.83)	MC	M7PPK-2506R-ND	29.62	259.75
	Au 30µ"	6 (1.83)	GR	M7PPK-2506J-ND	25.96	227.69
	Au 30µ"	10 (3.05)	MC	M7PPK-2510R-ND	35.20	308.66
	Au 30µ"	10 (3.05)	GR	M7PPK-2510J-ND	29.10	255.23
37	Au 30µ"	6 (1.83)	MC	M7PPK-3706R-ND	39.07	342.66
	Au 30µ"	6 (1.83)	GR	M7PPK-3706J-ND	33.87	297.05
	Au 30µ"	10 (3.05)	MC	M7PPK-3710R-ND	47.01	412.25
	Au 30µ"	10 (3.05)	GR	M7PPK-3710J-ND	38.34	336.24

Also available in the following configurations:
M7NNK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7VVK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Female to Female

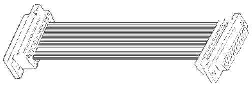

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7SSK-0906R-ND	20.05	175.85
	Au 30µ"	6 (1.83)	GR	M7SSK-0906J-ND	18.65	163.53
	Au 30µ"	10 (3.05)	MC	M7SSK-0910R-ND	22.20	194.66
	Au 30µ"	10 (3.05)	GR	M7SSK-0910J-ND	19.86	174.14
15	Au 30µ"	6 (1.83)	MC	M7SSK-1506R-ND	24.65	216.14
	Au 30µ"	6 (1.83)	GR	M7SSK-1506J-ND	22.40	196.42
	Au 30µ"	10 (3.05)	MC	M7SSK-1510R-ND	28.08	246.24
	Au 30µ"	10 (3.05)	GR	M7SSK-1510J-ND	24.33	213.36
25	Au 30µ"	6 (1.83)	MC	M7SSK-2506R-ND	29.95	262.60
	Au 30µ"	6 (1.83)	GR	M7SSK-2506J-ND	26.29	230.54
	Au 30µ"	10 (3.05)	MC	M7SSK-2510R-ND	35.52	311.51
	Au 30µ"	10 (3.05)	GR	M7SSK-2510J-ND	29.43	258.08
37	Au 30µ"	6 (1.83)	MC	M7SSK-3706R-ND	39.46	346.08
	Au 30µ"	6 (1.83)	GR	M7SSK-3706J-ND	34.26	300.47
	Au 30µ"	10 (3.05)	MC	M7SSK-3710R-ND	47.40	415.67
	Au 30µ"	10 (3.05)	GR	M7SSK-3710J-ND	38.73	339.66

Also available in the following configurations:
M7OOK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7WWK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

Male to Female

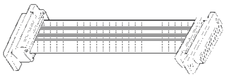

*MC = 3M Multi-Color, GR = 3M Gray
Metal shell with strain relief shown.

No. of Con-tacts	Conn. Finish	Length Feet (Meters)	Rib-bon* Cable	Digi-Key Part No.	Pricing 1	10
9	Au 30µ"	6 (1.83)	MC	M7PSK-0906R-ND	19.86	174.14
	Au 30µ"	6 (1.83)	GR	M7PSK-0906J-ND	18.45	161.82
	Au 30µ"	10 (3.05)	MC	M7PSK-0910R-ND	22.00	192.95
	Au 30µ"	10 (3.05)	GR	M7PSK-0910J-ND	19.66	172.43
15	Au 30µ"	6 (1.83)	MC	M7PSK-1506R-ND	24.32	213.29
	Au 30µ"	6 (1.83)	GR	M7PSK-1506J-ND	22.07	193.57
	Au 30µ"	10 (3.05)	MC	M7PSK-1510R-ND	27.76	243.39
	Au 30µ"	10 (3.05)	GR	M7PSK-1510J-ND	24.01	210.51
25	Au 30µ"	6 (1.83)	MC	M7PSK-2506R-ND	29.78	261.17
	Au 30µ"	6 (1.83)	GR	M7PSK-2506J-ND	26.13	229.12
	Au 30µ"	10 (3.05)	MC	M7PSK-2510R-ND	35.36	310.08
	Au 30µ"	10 (3.05)	GR	M7PSK-2510J-ND	29.27	256.65
37	Au 30µ"	6 (1.83)	MC	M7PSK-3706R-ND	39.27	344.37
	Au 30µ"	6 (1.83)	GR	M7PSK-3706J-ND	34.07	298.76
	Au 30µ"	10 (3.05)	MC	M7PSK-3710R-ND	47.21	413.96
	Au 30µ"	10 (3.05)	GR	M7PSK-3710J-ND	38.54	337.95

Also available in the following configurations:
M7NOK-□□□□□-ND – Metal Shell Connector with Threaded Insert
M7VWK-□□□□□-ND – Metal Shell Connector with Threaded Insert and Strain Relief
Call for complete part number and pricing!

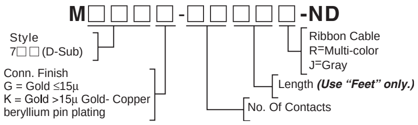

3M .100" x .100" (2.54mm x 2.54mm) Socket Connectors

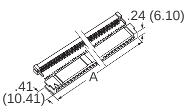

Wire Accommodation: 26, 28, 30AWG solid or stranded.

Physical Specifications: • Insulation Material: Glass reinforced polyester • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Beryllium copper • Plating: 30µ" gold • Wire Accommodation: 26 and 28AWG solid or stranded, 30AWG solid • Marking: 3M logo, part identification number and orientation triangle **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

No. of Contacts	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	10	3M Part No.
Polarizing Slots (Open End)					
10	.68 (17.27)	MSC10K-ND	2.00	16.80	3473-6000
14	.88 (22.35)	MSC14K-ND	2.41	20.30	3385-6000
16	.98 (24.89)	MSC16K-ND	2.64	22.23	3452-6000
20	1.18 (29.97)	MSC20K-ND	2.91	24.50	3421-6000
24	1.38 (35.05)	MSC24K-ND	3.49	29.40	3626-6000
26	1.48 (37.59)	MSC26K-ND	3.76	31.68	3399-6000
30	1.68 (42.67)	MSC30K-ND	4.33	36.40	3419-6000
34	1.88 (47.75)	MSC34K-ND	4.91	41.30	3414-6000
40	2.18 (55.37)	MSC40K-ND	5.76	48.48	3417-6000
50	2.68 (68.07)	MSC50K-ND	7.20	60.55	3425-6000
60	3.18 (80.77)	MSC60K-ND	8.92	75.08	3334-6000
Center-Bumped Polarizing (Open End)					
10	.68 (17.27)	MKC10K-ND	2.00	16.80	3473-6600
14	.88 (22.35)	MKC14K-ND	2.41	20.30	3385-6600
16	.98 (24.89)	MKC16K-ND	2.64	22.23	3452-6600
20	1.18 (29.97)	MKC20K-ND	2.91	24.50	3421-6600
24	1.38 (35.05)	MKC24K-ND	3.49	29.40	3626-6600
26	1.48 (37.59)	MKC26K-ND	3.76	31.68	3399-6600
30	1.68 (42.67)	MKC30K-ND	4.33	36.40	3419-6600
34	1.88 (47.75)	MKC34K-ND	4.91	41.30	3414-6600
40	2.18 (55.37)	MKC40K-ND	5.76	48.48	3417-6600
50	2.68 (68.07)	MKC50K-ND	7.20	60.55	3425-6600
60	3.18 (80.77)	MKC60K-ND	8.92	75.08	3334-6600
Center-Bumped Polarizing (Closed End)					
10	.68 (17.27)	MSD10K-ND	2.12	17.85	3473-7600
14	.88 (22.35)	MSD14K-ND	2.66	22.40	3385-7600
16	.98 (24.89)	MSD16K-ND	2.79	23.45	3452-7600
20	1.18 (29.97)	MSD20K-ND	3.06	25.73	3421-7600
24	1.38 (35.05)	MSD24K-ND	3.66	30.80	3626-7600
26	1.48 (37.59)	MSD26K-ND	3.97	33.43	3399-7600
30	1.68 (42.67)	MSD30K-ND	4.56	38.33	3419-7600
34	1.88 (47.75)	MSD34K-ND	5.12	43.05	3414-7600
40	2.18 (55.37)	MSD40K-ND	6.01	50.58	3417-7600
50	2.68 (68.07)	MSD50K-ND	7.49	63.00	3425-7600
60	3.18 (80.77)	MSD60K-ND	9.26	77.88	3334-7600
Cable Strain Relief/Stabilizer					
10	—	MSSR10-ND	.25	2.10	3448-3010
14	—	MSSR14-ND	.25	2.10	3448-3014
16	—	MSSR16-ND	.25	2.10	3448-3016
20	—	MSSR20-ND	.25	2.10	3448-3020
24	—	MSSR24-ND	.25	2.10	3448-3024
26	—	MSSR26-ND	.25	2.10	3448-3026
30	—	MSSR30-ND	.25	2.10	3448-3030
34	—	MSSR34-ND	.25	2.10	3448-3034
40	—	MSSR40-ND	.25	2.10	3448-3040
50	—	MSSR50-ND	.25	2.10	3448-3050
60	—	MSSR60-ND	.25	2.10	3448-3060

3M Series 89, .100" x .100" (2.54mm x 2.54mm) Socket Connectors

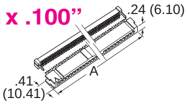

These high-quality, standard-performance IDC sockets minimize applied assembly costs without sacrificing reliability. The Series 89 IDC socket is part of a new line of standard-performance interconnects specifically designed to help electronic equipment manufacturers hold down applied assembly costs. These interconnects also offer the quality and reliability you'd expect from 3M. They have been engineered with a "systems" approach that has a positive impact on your process and product costs. **Physical Specifications:** • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Marking: Molded Figures: 3M logo and orientation triangle • Pins: Phosphor bronze • Contact Plating: Wipe Area: 30µ" gold, MIL-G-45204, Type II, Grade C • Underplate: 100µ" nickel, QQ-N-290, Class 2 • Wire Accommodation: 28AWG stranded **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ Sea Level **Environmental Specifications:** • Operating Temperature: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR40971

No. of Contacts	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	10	3M Part No.
IDC Socket Gold					
10	.68 (17.27)	MSC10A-ND	1.09	8.84	89110-0001
14	.88 (22.35)	MSC14A-ND	1.12	9.12	89114-0001
16	.98 (24.89)	MSC16A-ND	1.16	9.41	89116-0001
20	1.18 (29.97)	MSC20A-ND	1.26	10.26	89120-0001
24	1.38 (35.05)	MSC24A-ND	1.40	11.40	89124-0001
26	1.48 (37.59)	MSC26A-ND	1.44	11.69	89126-0001
30	1.68 (42.67)	MSC30A-ND	1.58	12.83	89130-0001
34	1.88 (47.75)	MSC34A-ND	1.61	13.11	89134-0001
40	2.18 (55.37)	MSC40A-ND	2.17	17.67	89140-0001
50	2.68 (68.07)	MSC50A-ND	2.35	19.10	89150-0001
60	3.18 (80.77)	MSC60A-ND	2.42	19.67	89160-0001
IDC Socket Gold, Polarizing					
10	.68 (17.27)	MKC10A-ND	1.09	8.84	89110-0101
14	.88 (22.35)	MKC14A-ND	1.12	9.12	89114-0101
16	.98 (24.89)	MKC16A-ND	1.16	9.41	89116-0101
20	1.18 (29.97)	MKC20A-ND	1.26	10.26	89120-0101
24	1.38 (35.05)	MKC24A-ND	1.40	11.40	89124-0101
26	1.48 (37.59)	MKC26A-ND	1.44	11.69	89126-0101
30	1.68 (42.67)	MKC30A-ND	1.58	12.83	89130-0101
34	1.88 (47.75)	MKC34A-ND	1.61	13.11	89134-0101
40	2.18 (55.37)	MKC40A-ND	2.17	17.67	89140-0101
50	2.68 (68.07)	MKC50A-ND	2.35	19.10	89150-0101
60	3.18 (80.77)	MKC60A-ND	2.42	19.67	89160-0101
Strain Relief					
10	—	MKSR10-ND	.28	2.28	3448-89110
14	—	MKSR14-ND	.28	2.28	3448-89114
16	—	MKSR16-ND	.28	2.28	3448-89116
20	—	MKSR20-ND	.28	2.28	3448-89120
24	—	MKSR24-ND	.28	2.28	3448-89124
26	—	MKSR26-ND	.28	2.28	3448-89126
30	—	MKSR30-ND	.28	2.28	3448-89130
34	—	MKSR34-ND	.28	2.28	3448-89134
40	—	MKSR40-ND	.28	2.28	3448-89140
50	—	MKSR50-ND	.28	2.28	3448-89150
60	—	MKSR60-ND	.28	2.28	3448-89160

3M .100" x .100" (2.54mm x 2.54mm) Plug Connectors

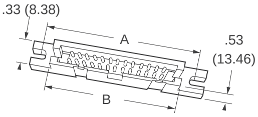

Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Flat Cable Connectors: Beryllium copper • Latch Eject Headers: Copper alloy • Plating: 30µ" gold • Wire Accommodation: 26 and 28AWG solid or stranded, 30AWG solid **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

No. of Cont.	Dim. – In. (mm) A	B	Digi-Key Part No.	Pricing 1	10	3M Part No.
With Slotted Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPL10K-ND	2.95	24.85	4610-6050
14	1.40 (35.56)	1.10 (27.94)	MPL14K-ND	4.10	34.48	4614-6000
16	1.50 (38.10)	1.20 (30.48)	MPL16K-ND	4.64	39.03	4616-6000
20	1.70 (43.18)	1.40 (35.56)	MPL20K-ND	5.41	45.50	4620-6000
24	1.90 (48.26)	1.60 (40.64)	MPL24K-ND	5.95	50.05	4624-6000
26	2.00 (50.80)	1.70 (43.18)	MPL26K-ND	6.16	51.80	4626-6000
30	2.20 (55.88)	1.90 (48.26)	MPL30K-ND	6.76	56.88	4630-6000
34	2.40 (60.96)	2.10 (53.34)	MPL34K-ND	7.63	64.23	4634-6000
36	2.50 (63.50)	2.20 (55.88)	MPL36K-ND	8.07	67.90	4636-6000
40	2.70 (68.58)	2.40 (60.96)	MPL40K-ND	8.47	71.23	4640-6000
50	3.20 (81.28)	2.90 (73.66)	MPL50K-ND	9.17	77.18	4650-6000
60	3.70 (93.98)	3.40 (86.36)	MPL60K-ND	10.82	91.00	4660-6000
64	3.90 (99.06)	3.60 (91.44)	MPL64K-ND	11.54	97.13	4664-6000
Without Mounting Flanges						
10	1.20 (30.48)	.90 (22.86)	MPK10K-ND	2.95	24.85	4610-6051
14	1.40 (35.56)	1.10 (27.94)	MPK14K-ND	4.10	34.48	4614-6001
16	1.50 (38.10)	1.20 (30.48)	MPK16K-ND	4.64	39.03	4616-6001
20	1.70 (43.18)	1.40 (35.56)	MPK20K-ND	5.41	45.50	4620-6001
24	1.90 (48.26)	1.60 (40.64)	MPK24K-ND	5.95	50.05	4624-6001
26	2.00 (50.80)	1.70 (43.18)	MPK26K-ND	6.16	51.80	4626-6001
30	2.20 (55.88)	1.90 (48.26)	MPK30K-ND	6.76	56.88	4630-6001
34	2.40 (60.96)	2.10 (53.34)	MPK34K-ND	7.63	64.23	4634-6001
36	2.50 (63.50)	2.20 (55.88)	MPK36K-ND	8.07	67.90	4636-6001
40	2.70 (68.58)	2.40 (60.96)	MPK40K-ND	8.47	71.23	4640-6001
50	3.20 (81.28)	2.90 (73.66)	MPK50K-ND	9.17	77.18	4650-6001
60	3.70 (93.98)	3.40 (86.36)	MPK60K-ND	10.82	91.00	4660-6001
64	3.90 (99.06)	3.60 (91.44)	MPK64K-ND	11.54	97.13	4664-6001
Strain Reliefs						
10	—	—	MPSR10-ND	.58	4.90	3448-4610
14	—	—	MPSR14-ND	.69	5.78	3448-4614
16	—	—	MPSR16-ND	.69	5.78	3448-4616
20	—	—	MPSR20-ND	.69	5.78	3448-4620
24	—	—	MPSR24-ND	.69	5.78	3448-4624
26	—	—	MPSR26-ND	.69	5.78	3448-4626
30	—	—	MPSR30-ND	.69	5.78	3448-4630
34	—	—	MPSR34-ND	.69	5.78	3448-4634
36	—	—	MPSR36-ND	.69	5.78	3448-4636
40	—	—	MPSR40-ND	.69	5.78	3448-4640
50	—	—	MPSR50-ND	.69	5.78	3448-4650
60	—	—	MPSR60-ND	.69	5.78	3448-4660
64	—	—	MPSR64-ND	.69	5.78	3448-4664
Lock Eject. Hooks (Short)			MDLKS1-ND	.29/2	1.23	3505-16
Lock Eject. Hooks (Long)			MDLKS2-ND	.33/2	1.40	3505-17

3M .100" (2.54mm) Card Edge Connectors

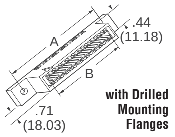

with Drilled Mounting Flanges

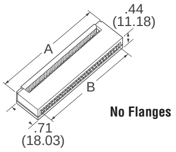

No Flanges

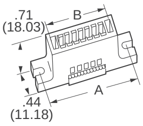

Slotted Mounting Flanges

Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Beryllium copper • Plating: 30µ" gold • Marking: 3M logo and part identification number

Electrical Specifications: • Current Rating: 1A • Insulation Resistance: >1x10⁹Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level

Environmental Specifications: • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971 • Wire Accommodation: 26AWG solid or stranded, 28AWG solid or stranded, 30AWG solid

Order strain reliefs separately.

No. of Cont.	Dim. – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	3M Part No.
With Drilled Mounting Flanges						
10	1.40 (35.56)	.612 (15.54)	MCF10K-ND	5.10	42.88	3358-0000
16	1.70 (43.18)	.912 (23.16)	MCF16K-ND	6.26	52.68	3368-0000
20	1.90 (48.26)	1.112 (28.24)	MCF20K-ND	6.64	55.83	3461-0000
26	2.20 (55.88)	1.412 (35.86)	MCF26K-ND	8.05	67.73	3462-0000
34	2.60 (66.04)	1.812 (46.02)	MCF34K-ND	8.57	72.10	3463-0000
40	2.90 (73.66)	2.112 (53.64)	MCF40K-ND	9.40	79.10	3464-0000
50	3.40 (86.36)	2.612 (66.34)	MCF50K-ND	11.67	98.18	3415-0000
60	3.90 (99.06)	3.112 (79.04)	MCF60K-ND	13.48	113.40	3666-0000
64	4.10 (104.14)	3.312 (84.12)	MCF64K-ND	13.12	110.43	3403-0000
Without Flanges						
10	.96 (24.38)	.612 (15.54)	MCE10K-ND	5.10	42.88	3358-0001
16	1.26 (32.00)	.912 (23.16)	MCE16K-ND	6.26	52.68	3368-0001
20	1.46 (37.08)	1.112 (28.24)	MCE20K-ND	6.64	55.83	3461-0001
26	1.76 (44.70)	1.412 (35.86)	MCE26K-ND	8.05	67.73	3462-0001
34	2.16 (54.86)	1.812 (46.02)	MCE34K-ND	8.57	72.10	3463-0001
40	2.46 (62.48)	2.112 (53.64)	MCE40K-ND	9.40	79.10	3464-0001
50	2.96 (75.18)	2.612 (66.34)	MCE50K-ND	11.67	98.18	3415-0001
60	3.46 (87.88)	3.112 (79.04)	MCE60K-ND	13.48	113.40	3666-0001
64	3.66 (92.96)	3.312 (84.12)	MCE64K-ND	13.12	110.43	3403-0001
With Slotted Mounting Flanges						
10	1.30 (33.02)	.612 (15.54)	MCS10K-ND	5.10	42.88	3358-0002
16	1.60 (40.64)	.912 (23.16)	MCS16K-ND	6.26	52.68	3368-0002
20	1.80 (45.72)	1.112 (28.24)	MCS20K-ND	6.64	55.83	3461-0002
26	2.10 (53.34)	1.412 (35.86)	MCS26K-ND	8.05	67.73	3462-0002
34	2.50 (63.50)	1.812 (46.02)	MCS34K-ND	8.57	72.10	3463-0002
40	2.80 (71.12)	2.112 (53.64)	MCS40K-ND	9.40	79.10	3464-0002
50	3.30 (83.82)	2.612 (66.34)	MCS50K-ND	11.67	98.18	3415-0002
60	3.80 (96.52)	3.112 (79.04)	MCS60K-ND	13.48	113.40	3666-0002
64	4.00 (101.60)	3.312 (84.12)	MCS64K-ND	13.12	110.43	3403-0002
Strain Reliefs						
10	—	—	MCSR10-ND	1.83	15.40	3448-52
16	—	—	MCSR16-ND	1.83	15.40	3448-53
20	—	—	MCSR20-ND	1.83	15.40	3448-54
26	—	—	MCSR26-ND	1.71	14.35	3448-55
34	—	—	MCSR34-ND	1.46	12.25	3448-56
40	—	—	MCSR40-ND	1.71	14.35	3448-57
50	—	—	MCSR50-ND	1.83	15.40	3448-58
60	—	—	MCSR60-ND	5.41	45.50	3448-31
64	—	—	MCSR64-ND	1.83	15.40	3448-59

3M Termination Jumpers

Single Ended Socket Connector

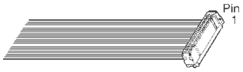

*MC = 3M Multi-Color, GR = 3M Gray

Socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
10	Au 30µ"	36 (91.44)	MC	M1AXK-1036R-ND	4.73	41.47
	Au 15µ"	36 (91.44)	MC	M1AXA-1036R-ND	2.62	22.94
	Au 30µ"	36 (91.44)	GR	M1AXK-1036J-ND	4.03	35.31
	Au 15µ"	36 (91.44)	GR	M1AXA-1036J-ND	1.91	16.79
14	Au 30µ"	36 (91.44)	MC	M1AXK-1436R-ND	6.02	52.81
	Au 15µ"	36 (91.44)	MC	M1AXA-1436R-ND	3.29	28.87
	Au 30µ"	36 (91.44)	GR	M1AXK-1436J-ND	5.04	44.18
	Au 15µ"	36 (91.44)	GR	M1AXA-1436J-ND	2.31	20.24
16	Au 30µ"	36 (91.44)	MC	M1AXK-1636R-ND	6.70	58.77
	Au 15µ"	36 (91.44)	MC	M1AXA-1636R-ND	3.65	31.98
	Au 30µ"	36 (91.44)	GR	M1AXK-1636J-ND	5.58	48.90
	Au 15µ"	36 (91.44)	GR	M1AXA-1636J-ND	2.52	22.11
20	Au 30µ"	36 (91.44)	MC	M1AXK-2036R-ND	7.77	68.12
	Au 15µ"	36 (91.44)	MC	M1AXA-2036R-ND	4.39	38.48
	Au 30µ"	36 (91.44)	GR	M1AXK-2036J-ND	6.36	55.79
	Au 15µ"	36 (91.44)	GR	M1AXA-2036J-ND	2.98	26.15
24	Au 30µ"	36 (91.44)	MC	M1AXK-2436R-ND	9.32	81.74
	Au 15µ"	36 (91.44)	MC	M1AXA-2436R-ND	5.16	45.26
	Au 30µ"	36 (91.44)	GR	M1AXK-2436J-ND	7.63	66.94
	Au 15µ"	36 (91.44)	GR	M1AXA-2436J-ND	3.47	30.46
26	Au 30µ"	36 (91.44)	MC	M1AXK-2636R-ND	10.07	88.26
	Au 15µ"	36 (91.44)	MC	M1AXA-2636R-ND	5.52	48.36
	Au 30µ"	36 (91.44)	GR	M1AXK-2636J-ND	8.24	72.24
	Au 15µ"	36 (91.44)	GR	M1AXA-2636J-ND	3.69	32.34
30	Au 30µ"	36 (91.44)	MC	M1AXK-3036R-ND	12.23	107.25
	Au 15µ"	36 (91.44)	MC	M1AXA-3036R-ND	6.93	60.79
	Au 30µ"	36 (91.44)	GR	M1AXK-3036J-ND	9.84	86.29
	Au 15µ"	36 (91.44)	GR	M1AXA-3036J-ND	4.54	39.83
34	Au 30µ"	36 (91.44)	MC	M1AXK-3436R-ND	13.14	115.23
	Au 15µ"	36 (91.44)	MC	M1AXA-3436R-ND	6.96	61.08
	Au 30µ"	36 (91.44)	GR	M1AXK-3436J-ND	10.75	94.27
	Au 15µ"	36 (91.44)	GR	M1AXA-3436J-ND	4.58	40.12
40	Au 30µ"	36 (91.44)	MC	M1AXK-4036R-ND	15.44	135.38
	Au 15µ"	36 (91.44)	MC	M1AXA-4036R-ND	8.45	74.10
	Au 30µ"	36 (91.44)	GR	M1AXK-4036J-ND	12.63	110.72
	Au 15µ"	36 (91.44)	GR	M1AXA-4036J-ND	5.64	49.45
50	Au 30µ"	36 (91.44)	MC	M1AXK-5036R-ND	19.29	169.15
	Au 15µ"	36 (91.44)	MC	M1AXA-5036R-ND	10.22	89.63
	Au 30µ"	36 (91.44)	GR	M1AXK-5036J-ND	15.77	138.32
	Au 15µ"	36 (91.44)	GR	M1AXA-5036J-ND	6.71	58.81
60	Au 30µ"	36 (91.44)	MC	M1AXK-6036R-ND	23.60	206.91
	Au 15µ"	36 (91.44)	MC	M1AXA-6036R-ND	11.90	104.31
	Au 30µ"	36 (91.44)	GR	M1AXK-6036J-ND	19.38	169.93
	Au 15µ"	36 (91.44)	GR	M1AXA-6036J-ND	7.68	67.33

Also available in the following configurations:
M1BX☐-☐☐36☐-ND – Standard Open End with Strain Relief
M1CX☐-☐☐36☐-ND – Standard Open End with Polarizing Key
M1DX☐-☐☐36☐-ND – Std. Open End with Polarizing Key and Strain Relief
M1TXK-☐☐36☐-ND – Standard Closed End with Polarizing Key
M1UXK-☐☐36☐-ND – Std. Closed End with Polarizing Key and Strain Relief

Call for complete part number and pricing!

Single Ended Socket Connector

*Twisted Pair Cable Finished Length is Approximate.

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
10	Au 30µ"	40 (101.60)	TW	M1AXK-1040K-ND	5.57	48.85
	Au 15µ"	40 (101.60)	TW	M1AXA-1040K-ND	3.46	30.32
14	Au 30µ"	40 (101.60)	TW	M1AXK-1440K-ND	7.20	63.14
	Au 15µ"	40 (101.60)	TW	M1AXA-1440K-ND	4.47	39.20
16	Au 30µ"	40 (101.60)	TW	M1AXK-1640K-ND	8.05	70.58
	Au 15µ"	40 (101.60)	TW	M1AXA-1640K-ND	4.99	43.79
20	Au 30µ"	40 (101.60)	TW	M1AXK-2040K-ND	9.45	82.88
	Au 15µ"	40 (101.60)	TW	M1AXA-2040K-ND	6.07	53.24
26	Au 30µ"	40 (101.60)	TW	M1AXK-2640K-ND	12.25	107.46
	Au 15µ"	40 (101.60)	TW	M1AXA-2640K-ND	7.70	67.56

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
34	Au 30µ"	40 (101.60)	TW	M1AXK-3440K-ND	16.00	140.32
	Au 15µ"	40 (101.60)	TW	M1AXA-3440K-ND	9.83	86.17
40	Au 30µ"	40 (101.60)	TW	M1AXK-4040K-ND	18.80	164.90
	Au 15µ"	40 (101.60)	TW	M1AXA-4040K-ND	11.82	103.63
50	Au 30µ"	40 (101.60)	TW	M1AXK-5040K-ND	23.50	206.06
	Au 15µ"	40 (101.60)	TW	M1AXA-5040K-ND	14.43	126.54
60	Au 30µ"	40 (101.60)	TW	M1AXK-6040K-ND	28.65	251.20
	Au 15µ"	40 (101.60)	TW	M1AXA-6040K-ND	16.95	148.60

Also available in the following configurations:
M1BX☐-☐☐40K-ND – Standard Open End with Strain Relief
M1CX☐-☐☐40K-ND – Standard Open End with Polarizing Key
M1DX☐-☐☐40K-ND – Std. Open End with Polarizing Key and Strain Relief
M1TXK-☐☐40K-ND – Standard Closed End with Polarizing Key
M1UXK-☐☐40K-ND – Std. Closed End with Polarizing Key and Strain Relief

Call for complete part number and pricing!

Plug Connector Single Ended

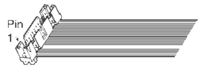

*MC = 3M Multi-Color, GR = 3M Gray

Pin connector without flange, with polarizing key shown.

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
10	Au 30µ"	36 (91.44)	MC	M1KXK-1036R-ND	6.22	54.58
	Au 30µ"	36 (91.44)	GR	M1KXK-1036J-ND	5.52	48.42
14	Au 30µ"	36 (91.44)	MC	M1KXK-1436R-ND	8.65	75.90
	Au 30µ"	36 (91.44)	GR	M1KXK-1436J-ND	7.67	67.27
16	Au 30µ"	36 (91.44)	MC	M1KXK-1636R-ND	9.82	86.13
	Au 30µ"	36 (91.44)	GR	M1KXK-1636J-ND	8.70	76.26
20	Au 30µ"	36 (91.44)	MC	M1KXK-2036R-ND	11.67	102.32
	Au 30µ"	36 (91.44)	GR	M1KXK-2036J-ND	10.26	89.99
24	Au 30µ"	36 (91.44)	MC	M1KXK-2436R-ND	13.16	115.37
	Au 30µ"	36 (91.44)	GR	M1KXK-2436J-ND	11.47	100.57
26	Au 30µ"	36 (91.44)	MC	M1KXK-2636R-ND	13.80	121.04
	Au 30µ"	36 (91.44)	GR	M1KXK-2636J-ND	11.97	105.01
30	Au 30µ"	36 (91.44)	MC	M1KXK-3036R-ND	16.03	140.59
	Au 30µ"	36 (91.44)	GR	M1KXK-3036J-ND	13.64	119.63
34	Au 30µ"	36 (91.44)	MC	M1KXK-3436R-ND	17.40	152.56
	Au 30µ"	36 (91.44)	GR	M1KXK-3436J-ND	15.01	131.60
36	Au 30µ"	36 (91.44)	MC	M1KXK-3636R-ND	18.56	162.78
	Au 30µ"	36 (91.44)	GR	M1KXK-3636J-ND	15.96	139.97
40	Au 30µ"	36 (91.44)	MC	M1KXK-4036R-ND	19.66	172.43
	Au 30µ"	36 (91.44)	GR	M1KXK-4036J-ND	16.85	147.77
50	Au 30µ"	36 (91.44)	MC	M1KXK-5036R-ND	22.38	196.22
	Au 30µ"	36 (91.44)	GR	M1KXK-5036J-ND	18.86	165.40
60	Au 30µ"	36 (91.44)	MC	M1KXK-6036R-ND	26.55	232.85
	Au 30µ"	36 (91.44)	GR	M1KXK-6036J-ND	22.33	195.86
64	Au 30µ"	36 (91.44)	MC	M1KXK-6436R-ND	28.33	248.46
	Au 30µ"	36 (91.44)	GR	M1KXK-6436J-ND	23.83	209.01

Also available in the following configurations:
M1RXK-☐☐36☐-ND – Pin Connector without Flange, with Polarizing Key and Strain Relief
M1WXK-☐☐36☐-ND – Pin Connector with Flange, with Polarizing Key
M1YXK-☐☐36☐-ND – Pin Connector with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Plug Connector — Single Ended

*Twisted Pair Cable Finished Length is Approximate.

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
10	Au 30µ"	40 (101.60)	TW	M1KXK-1040K-ND	7.07	61.96
14	Au 30µ"	40 (101.60)	TW	M1KXK-1440K-ND	9.83	86.23
16	Au 30µ"	40 (101.60)	TW	M1KXK-1640K-ND	11.17	97.94
20	Au 30µ"	40 (101.60)	TW	M1KXK-2040K-ND	13.35	117.08
26	Au 30µ"	40 (101.60)	TW	M1KXK-2640K-ND	15.99	140.23
34	Au 30µ"	40 (101.60)	TW	M1KXK-3440K-ND	20.26	177.66
40	Au 30µ"	40 (101.60)	TW	M1KXK-4040K-ND	23.03	201.95
50	Au 30µ"	40 (101.60)	TW	M1KXK-5040K-ND	26.59	233.13
60	Au 30µ"	40 (101.60)	TW	M1KXK-6040K-ND	31.60	277.13
64	Au 30µ"	40 (101.60)	TW	M1KXK-6440K-ND	33.72	295.70

Also available in the following configurations:
M1RXK-☐☐40K-ND – Standard Open End without Flange, with Polarizing Key and Strain Relief
M1WXK-☐☐40K-ND – Standard Open End with Flange, with Polarizing Key
M1YXK-☐☐40K-ND – Standard Open End with Flange, with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Socket to Socket Connector

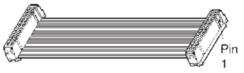

*MC = 3M Multi-Color, GR = 3M Gray

Socket connector without strain relief shown.

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
10	Au 30µ"	6 (15.24)	MC	M3AAK-1006R-ND	6.51	57.07
	Au 15µ"	6 (15.24)	MC	M3AAA-1006R-ND	2.28	20.02
	Au 30µ"	6 (15.24)	GR	M3AAK-1006J-ND	6.39	56.05
	Au 15µ"	6 (15.24)	GR	M3AAA-1006J-ND	2.17	19.00
10	Au 30µ"	18 (45.72)	MC	M3AAK-1018R-ND	7.04	61.77
	Au 15µ"	18 (45.72)	MC	M3AAA-1018R-ND	2.82	24.72
	Au 30µ"	18 (45.72)	GR	M3AAK-1018J-ND	6.69	58.70
	Au 15µ"	18 (45.72)	GR	M3AAA-1018J-ND	2.47	21.65
10	Au 30µ"	36 (91.44)	MC	M3AAK-1036R-ND	7.85	68.83
	Au 15µ"	36 (91.44)	MC	M3AAA-1036R-ND	3.62	31.78
	Au 30µ"	36 (91.44)	GR	M3AAK-1036J-ND	7.15	62.67
	Au 15µ"	36 (91.44)	GR	M3AAA-1036J-ND	2.92	25.62
14	Au 30µ"	6 (15.24)	MC	M3AAK-1406R-ND	7.92	69.41
	Au 15µ"	6 (15.24)	MC	M3AAA-1406R-ND	2.46	21.53
	Au 30µ"	6 (15.24)	GR	M3AAK-1406J-ND	7.75	67.97
	Au 15µ"	6 (15.24)	GR	M3AAA-1406J-ND	2.29	20.09
14	Au 30µ"	18 (45.72)	MC	M3AAK-1418R-ND	8.67	76.00
	Au 15µ"	18 (45.72)	MC	M3AAA-1418R-ND	3.21	28.12
	Au 30µ"	18 (45.72)	GR	M3AAK-1418J-ND	8.17	71.68
	Au 15µ"	18 (45.72)	GR	M3AAA-1418J-ND	2.71	23.80
14	Au 30µ"	36 (91.44)	MC	M3AAK-1436R-ND	9.79	85.87
	Au 15µ"	36 (91.44)	MC	M3AAA-1436R-ND	4.33	37.99
	Au 30µ"	36 (91.44)	GR	M3AAK-1436J-ND	8.81	77.24
	Au 15µ"	36 (91.44)	GR	M3AAA-1436J-ND	3.35	29.36
16	Au 30µ"	6 (15.24)	MC	M3AAK-1606R-ND	8.68	76.15
	Au 15µ"	6 (15.24)	MC	M3AAA-1606R-ND	2.57	22.57
	Au 30µ"	6 (15.24)	GR	M3AAK-1606J-ND	8.50	74.51
	Au 15µ"	6 (15.24)	GR	M3AAA-1606J-ND	2.39	20.93
16	Au 30µ"	18 (45.72)	MC	M3AAK-1618R-ND	9.54	83.68
	Au 15µ"	18 (45.72)	MC	M3AAA-1618R-ND	3.43	30.10
	Au 30µ"	18 (45.72)	GR	M3AAK-1618J-ND	8.98	78.74
	Au 15µ"	18 (45.72)	GR	M3AAA-1618J-ND	2.87	25.16
16	Au 30µ"	36 (91.44)	MC	M3AAK-1636R-ND	10.83	94.96
	Au 15µ"	36 (91.44)	MC	M3AAA-1636R-ND	4.72	41.38
	Au 30µ"	36 (91.44)	GR	M3AAK-1636J-ND	9.70	85.10
	Au 15µ"	36 (91.44)	GR	M3AAA-1636J-ND	3.59	31.52
20	Au 30µ"	6 (15.24)	MC	M3AAK-2006R-ND	9.64	84.50
	Au 15µ"	6 (15.24)	MC	M3AAA-2006R-ND	2.88	25.22
	Au 30µ"	6 (15.24)	GR	M3AAK-2006J-ND	9.40	82.45
	Au 15µ"	6 (15.24)	GR	M3AAA-2006J-ND	2.64	23.17
20	Au 30µ"	18 (45.72)	MC	M3AAK-2018R-ND	10.71	93.91
	Au 15µ"	18 (45.72)	MC	M3AAA-2018R-ND	3.95	34.63
	Au 30µ"	18 (45.72)	GR	M3AAK-2018J-ND	10.01	87.74
	Au 15µ"	18 (45.72)	GR	M3AAA-2018J-ND	3.25	28.46
20	Au 30µ"	36 (91.44)	MC	M3AAK-2036R-ND	12.32	108.02
	Au 15µ"	36 (91.44)	MC	M3AAA-2036R-ND	5.56	48.74
	Au 30µ"	36 (91.44)	GR	M3AAK-2036J-ND	10.91	95.69
	Au 15µ"	36 (91.44)	GR	M3AAA-2036J-ND	4.15	36.41
24	Au 30µ"	6 (15.24)	MC	M3AAK-2406R-ND	11.56	101.40
	Au 15µ"	6 (15.24)	MC	M3AAA-2406R-ND	3.24	28.44
	Au 30µ"	6 (15.24)	GR	M3AAK-2406J-ND	11.28	98.94
	Au 15µ"	6 (15.24)	GR	M3AAA-2406J-ND	2.96	25.98
24	Au 30µ"	18 (45.72)	MC	M3AAK-2418R-ND	12.85	112.69
	Au 15µ"	18 (45.72)	MC	M3AAA-2418R-ND	4.53	39.73
	Au 30µ"	18 (45.72)	GR	M3AAK-2418J-ND	12.01	105.29
	Au 15µ"	18 (45.72)	GR	M3AAA-2418J-ND	3.69	32.33
24	Au 30µ"	36 (91.44)	MC	M3AAK-2436R-ND	14.78	129.62
	Au 15µ"	36 (91.44)	MC	M3AAA-2436R-ND	6.46	56.66
	Au 30µ"	36 (91.44)	GR	M3AAK-2436J-ND	13.09	114.82
	Au 15µ"	36 (91.44)	GR	M3AAA-2436J-ND	4.77	41.86
26	Au 30µ"	6 (15.24)	MC	M3AAK-2606R-ND	12.46	109.28
	Au 15µ"	6 (15.24)	MC	M3AAA-2606R-ND	3.36	29.48
	Au 30µ"	6 (15.24)	GR	M3AAK-2606J-ND	12.16	106.61
	Au 15µ"	6 (15.24)	GR	M3AAA-2606J-ND	3.06	26.81
26	Au 30µ"	18 (45.72)	MC	M3AAK-2618R-ND	13.86	121.51
	Au 15µ"	18 (45.72)	MC	M3AAA-2618R-ND	4.76	41.71
	Au 30µ"	18 (45.72)	GR	M3AAK-2618J-ND	12.94	113.50
	Au 15µ"	18 (45.72)	GR	M3AAA-2618J-ND	3.84	33.70

(Continued)

Termination Jumpers

Socket to Socket Connector *(Cont.)*

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
26	Au 30µ”	36 (91.44)	MC	M3AAK-2636R-ND	15.95	139.85
	Au 15µ”	36 (91.44)	MC	M3AAA-2636R-ND	6.85	60.05
	Au 30µ”	36 (91.44)	GR	M3AAK-2636J-ND	14.12	123.82
	Au 15µ”	36 (91.44)	GR	M3AAA-2636J-ND	5.02	44.02
30	Au 30µ”	6 (15.24)	MC	M3AAK-3006R-ND	14.43	126.55
	Au 15µ”	6 (15.24)	MC	M3AAA-3006R-ND	3.84	33.64
	Au 30µ”	6 (15.24)	GR	M3AAK-3006J-ND	14.03	123.06
	Au 15µ”	6 (15.24)	GR	M3AAA-3006J-ND	3.44	30.15
30	Au 30µ”	18 (45.72)	MC	M3AAK-3018R-ND	16.25	142.54
	Au 15µ”	18 (45.72)	MC	M3AAA-3018R-ND	5.66	49.63
	Au 30µ”	18 (45.72)	GR	M3AAK-3018J-ND	15.06	132.06
	Au 15µ”	18 (45.72)	GR	M3AAA-3018J-ND	4.47	39.15
30	Au 30µ”	36 (91.44)	MC	M3AAK-3036R-ND	18.99	166.53
	Au 15µ”	36 (91.44)	MC	M3AAA-3036R-ND	8.39	73.62
	Au 30µ”	36 (91.44)	GR	M3AAK-3036J-ND	16.60	145.57
	Au 15µ”	36 (91.44)	GR	M3AAA-3036J-ND	6.01	52.66
34	Au 30µ”	6 (15.24)	MC	M3AAK-3406R-ND	16.25	142.51
	Au 15µ”	6 (15.24)	MC	M3AAA-3406R-ND	3.90	34.21
	Au 30µ”	6 (15.24)	GR	M3AAK-3406J-ND	15.85	139.02
	Au 15µ”	6 (15.24)	GR	M3AAA-3406J-ND	3.50	30.72
34	Au 30µ”	18 (45.72)	MC	M3AAK-3418R-ND	18.07	158.50
	Au 15µ”	18 (45.72)	MC	M3AAA-3418R-ND	5.72	50.20
	Au 30µ”	18 (45.72)	GR	M3AAK-3418J-ND	16.88	148.02
	Au 15µ”	18 (45.72)	GR	M3AAA-3418J-ND	4.53	39.72
34	Au 30µ”	36 (91.44)	MC	M3AAK-3436R-ND	20.81	182.49
	Au 15µ”	36 (91.44)	MC	M3AAA-3436R-ND	8.46	74.19
	Au 30µ”	36 (91.44)	GR	M3AAK-3436J-ND	18.42	161.53
	Au 15µ”	36 (91.44)	GR	M3AAA-3436J-ND	6.07	53.23
40	Au 30µ”	6 (15.24)	MC	M3AAK-4006R-ND	19.08	167.30
	Au 15µ”	6 (15.24)	MC	M3AAA-4006R-ND	5.10	44.75
	Au 30µ”	6 (15.24)	GR	M3AAK-4006J-ND	18.61	163.19
	Au 15µ”	6 (15.24)	GR	M3AAA-4006J-ND	4.63	40.64
40	Au 30µ”	18 (45.72)	MC	M3AAK-4018R-ND	21.22	186.11
	Au 15µ”	18 (45.72)	MC	M3AAA-4018R-ND	7.25	63.56
	Au 30µ”	18 (45.72)	GR	M3AAK-4018J-ND	19.82	173.78
	Au 15µ”	18 (45.72)	GR	M3AAA-4018J-ND	5.84	51.23
40	Au 30µ”	36 (91.44)	MC	M3AAK-4036R-ND	24.44	214.32
	Au 15µ”	36 (91.44)	MC	M3AAA-4036R-ND	10.47	91.77
	Au 30µ”	36 (91.44)	GR	M3AAK-4036J-ND	21.63	189.67
	Au 15µ”	36 (91.44)	GR	M3AAA-4036J-ND	7.65	67.12
50	Au 30µ”	6 (15.24)	MC	M3AAK-5006R-ND	23.83	208.98
	Au 15µ”	6 (15.24)	MC	M3AAA-5006R-ND	5.70	49.95
	Au 30µ”	6 (15.24)	GR	M3AAK-5006J-ND	23.24	203.84
	Au 15µ”	6 (15.24)	GR	M3AAA-5006J-ND	5.11	44.81
50	Au 30µ”	18 (45.72)	MC	M3AAK-5018R-ND	26.51	232.49
	Au 15µ”	18 (45.72)	MC	M3AAA-5018R-ND	8.38	73.46
	Au 30µ”	18 (45.72)	GR	M3AAK-5018J-ND	24.75	217.08
	Au 15µ”	18 (45.72)	GR	M3AAA-5018J-ND	6.62	58.05
50	Au 30µ”	36 (91.44)	MC	M3AAK-5036R-ND	30.53	267.76
	Au 15µ”	36 (91.44)	MC	M3AAA-5036R-ND	12.40	108.73
	Au 30µ”	36 (91.44)	GR	M3AAK-5036J-ND	27.02	236.93
	Au 15µ”	36 (91.44)	GR	M3AAA-5036J-ND	8.88	77.90
60	Au 30µ”	6 (15.24)	MC	M3AAK-6006R-ND	29.49	258.64
	Au 15µ”	6 (15.24)	MC	M3AAA-6006R-ND	6.09	53.44
	Au 30µ”	6 (15.24)	GR	M3AAK-6006J-ND	28.79	252.47
	Au 15µ”	6 (15.24)	GR	M3AAA-6006J-ND	5.39	47.27
60	Au 30µ”	18 (45.72)	MC	M3AAK-6018R-ND	32.71	286.85
	Au 15µ”	18 (45.72)	MC	M3AAA-6018R-ND	9.31	81.65
	Au 30µ”	18 (45.72)	GR	M3AAK-6018J-ND	30.60	268.36
	Au 15µ”	18 (45.72)	GR	M3AAA-6018J-ND	7.20	63.16
60	Au 30µ”	36 (91.44)	MC	M3AAK-6036R-ND	37.54	329.18
	Au 15µ”	36 (91.44)	MC	M3AAA-6036R-ND	14.14	123.98
	Au 30µ”	36 (91.44)	GR	M3AAK-6036J-ND	33.32	292.19
	Au 15µ”	36 (91.44)	GR	M3AAA-6036J-ND	9.92	86.99

Also available in the following configurations:
M3BB□-□□□□□-ND – Standard Open End with Strain Relief
M3CC□-□□□□□-ND – Standard Open End with Polarizing Key
M3DD□-□□□□□-ND – Standard Open End with Polarizing Key and Strain Relief
M3TTK-□□□□□-ND – Standard Closed End with Polarizing Key
M3UUK-□□□□□-ND – Standard Closed End with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Socket to Socket Connector

*Twisted Pair Cable Finished Length is Approximate.

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
10	Au 30µ”	20 (50.80)	TW	M3AAK-1020K-ND	7.47	65.46
	Au 15µ”	20 (50.80)	TW	M3AAA-1020K-ND	3.24	28.41
	Au 30µ”	40 (101.60)	TW	M3AAK-1040K-ND	8.69	76.21
	Au 15µ”	40 (101.60)	TW	M3AAA-1040K-ND	4.47	39.16
	Au 30µ”	60 (152.40)	TW	M3AAK-1060K-ND	9.92	86.95
	Au 15µ”	60 (152.40)	TW	M3AAA-1060K-ND	5.69	49.90
14	Au 30µ”	20 (50.80)	TW	M3AAK-1420K-ND	9.26	81.16
	Au 15µ”	20 (50.80)	TW	M3AAA-1420K-ND	3.80	33.28
	Au 30µ”	40 (101.60)	TW	M3AAK-1440K-ND	10.97	96.20
	Au 15µ”	40 (101.60)	TW	M3AAA-1440K-ND	5.51	48.32
	Au 30µ”	60 (152.40)	TW	M3AAK-1460K-ND	12.69	111.25
	Au 15µ”	60 (152.40)	TW	M3AAA-1460K-ND	7.23	63.37
16	Au 30µ”	20 (50.80)	TW	M3AAK-1620K-ND	10.22	89.58
	Au 15µ”	20 (50.80)	TW	M3AAA-1620K-ND	4.11	36.00
	Au 30µ”	40 (101.60)	TW	M3AAK-1640K-ND	12.18	106.77
	Au 15µ”	40 (101.60)	TW	M3AAA-1640K-ND	6.07	53.19
	Au 30µ”	60 (152.40)	TW	M3AAK-1660K-ND	14.14	123.96
	Au 15µ”	60 (152.40)	TW	M3AAA-1660K-ND	8.03	70.38
20	Au 30µ”	20 (50.80)	TW	M3AAK-2020K-ND	11.55	101.29
	Au 15µ”	20 (50.80)	TW	M3AAA-2020K-ND	4.79	42.01
	Au 30µ”	40 (101.60)	TW	M3AAK-2040K-ND	14.00	122.78
	Au 15µ”	40 (101.60)	TW	M3AAA-2040K-ND	7.24	63.50
	Au 30µ”	60 (152.40)	TW	M3AAK-2060K-ND	16.45	144.27
	Au 15µ”	60 (152.40)	TW	M3AAA-2060K-ND	9.69	84.99
26	Au 30µ”	20 (50.80)	TW	M3AAK-2620K-ND	14.95	131.11
	Au 15µ”	20 (50.80)	TW	M3AAA-2620K-ND	5.85	51.31
	Au 30µ”	40 (101.60)	TW	M3AAK-2640K-ND	18.14	159.04
	Au 15µ”	40 (101.60)	TW	M3AAA-2640K-ND	9.04	79.24
	Au 30µ”	60 (152.40)	TW	M3AAK-2660K-ND	21.32	186.98
	Au 15µ”	60 (152.40)	TW	M3AAA-2660K-ND	12.22	107.18
34	Au 30µ”	20 (50.80)	TW	M3AAK-3420K-ND	19.51	171.05
	Au 15µ”	20 (50.80)	TW	M3AAA-3420K-ND	7.16	62.75
	Au 30µ”	40 (101.60)	TW	M3AAK-3440K-ND	23.67	207.58
	Au 15µ”	40 (101.60)	TW	M3AAA-3440K-ND	11.32	99.28
	Au 30µ”	60 (152.40)	TW	M3AAK-3460K-ND	27.84	244.11
	Au 15µ”	60 (152.40)	TW	M3AAA-3460K-ND	15.49	135.81
40	Au 30µ”	20 (50.80)	TW	M3AAK-4020K-ND	22.91	200.87
	Au 15µ”	20 (50.80)	TW	M3AAA-4020K-ND	8.93	78.32
	Au 30µ”	40 (101.60)	TW	M3AAK-4040K-ND	27.81	243.85
	Au 15µ”	40 (101.60)	TW	M3AAA-4040K-ND	13.83	121.30
	Au 30µ”	60 (152.40)	TW	M3AAK-4060K-ND	32.71	286.82
	Au 15µ”	60 (152.40)	TW	M3AAA-4060K-ND	18.73	164.27
50	Au 30µ”	20 (50.80)	TW	M3AAK-5020K-ND	28.62	250.94
	Au 15µ”	20 (50.80)	TW	M3AAA-5020K-ND	10.48	91.91
	Au 30µ”	40 (101.60)	TW	M3AAK-5040K-ND	34.74	304.67
	Au 15µ”	40 (101.60)	TW	M3AAA-5040K-ND	16.61	145.64
	Au 30µ”	60 (152.40)	TW	M3AAK-5060K-ND	40.87	358.39
	Au 15µ”	60 (152.40)	TW	M3AAA-5060K-ND	22.73	199.36
60	Au 30µ”	20 (50.80)	TW	M3AAK-6020K-ND	35.24	309.00
	Au 15µ”	20 (50.80)	TW	M3AAA-6020K-ND	11.84	103.80
	Au 30µ”	40 (101.60)	TW	M3AAK-6040K-ND	42.59	373.46
	Au 15µ”	40 (101.60)	TW	M3AAA-6040K-ND	19.19	168.26
	Au 30µ”	60 (152.40)	TW	M3AAK-6060K-ND	49.94	437.93
	Au 15µ”	60 (152.40)	TW	M3AAA-6060K-ND	26.54	232.73

Also available in the following configurations:
M3BB□-□□□□K-ND – Standard Open End with Strain Relief
M3CC□-□□□□K-ND – Standard Open End with Polarizing Key
M3DD□-□□□□K-ND – Standard Open End with Polarizing Key and Strain Relief
M3TTK-□□□□K-ND – Standard Closed End with Polarizing Key
M3UUK-□□□□K-ND – Std. Closed End with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Plug Connector to Plug Connector

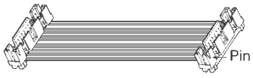

*MC = 3M Multi-Color, GR = 3M Gray

Pin connector without flange, with polarizing key shown.

No. of Contacts	Conn. Finish	Length In. (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing	
					1	10
10	Au 30µ”	6 (15.24)	MC	M3KKK-1006R-ND	9.50	83.29
	Au 30µ”	6 (15.24)	GR	M3KKK-1006J-ND	9.38	82.27
	Au 30µ”	18 (45.72)	MC	M3KKK-1018R-ND	10.03	87.99
	Au 30µ”	18 (45.72)	GR	M3KKK-1018J-ND	9.68	84.92
	Au 30µ”	36 (91.44)	MC	M3KKK-1036R-ND	10.84	95.05
	Au 30µ”	36 (91.44)	GR	M3KKK-1036J-ND	10.14	88.89
14	Au 30µ”	6 (15.24)	MC	M3KKK-1406R-ND	13.18	115.58
	Au 30µ”	6 (15.24)	GR	M3KKK-1406J-ND	13.02	114.14
	Au 30µ”	18 (45.72)	MC	M3KKK-1418R-ND	13.93	122.17
	Au 30µ”	18 (45.72)	GR	M3KKK-1418J-ND	13.44	117.85
	Au 30µ”	36 (91.44)	MC	M3KKK-1436R-ND	15.06	132.04
	Au 30µ”	36 (91.44)	GR	M3KKK-1436J-ND	14.07	123.41
16	Au 30µ”	6 (15.24)	MC	M3KKK-1606R-ND	14.92	130.87
	Au 30µ”	6 (15.24)	GR	M3KKK-1606J-ND	14.74	129.23
	Au 30µ”	18 (45.72)	MC	M3KKK-1618R-ND	15.78	138.40
	Au 30µ”	18 (45.72)	GR	M3KKK-1618J-ND	15.22	133.46
	Au 30µ”	36 (91.44)	MC	M3KKK-1636R-ND	17.07	149.68
	Au 30µ”	36 (91.44)	GR	M3KKK-1636J-ND	15.94	139.82
20	Au 30µ”	6 (15.24)	MC	M3KKK-2006R-ND	17.44	152.90
	Au 30µ”	6 (15.24)	GR	M3KKK-2006J-ND	17.20	150.85
	Au 30µ”	18 (45.72)	MC	M3KKK-2018R-ND	18.51	162.31
	Au 30µ”	18 (45.72)	GR	M3KKK-2018J-ND	17.81	156.14
	Au 30µ”	36 (91.44)	MC	M3KKK-2036R-ND	20.12	176.42
	Au 30µ”	36 (91.44)	GR	M3KKK-2036J-ND	18.71	164.09
24	Au 30µ”	6 (15.24)	MC	M3KKK-2406R-ND	19.23	168.66
	Au 30µ”	6 (15.24)	GR	M3KKK-2406J-ND	18.95	166.20
	Au 30µ”	18 (45.72)	MC	M3KKK-2418R-ND	20.52	179.95
	Au 30µ”	18 (45.72)	GR	M3KKK-2418J-ND	19.68	172.55
	Au 30µ”	36 (91.44)	MC	M3KKK-2436R-ND	22.45	196.88
	Au 30µ”	36 (91.44)	GR	M3KKK-2436J-ND	20.76	182.08
26	Au 30µ”	6 (15.24)	MC	M3KKK-2606R-ND	19.94	174.83
	Au 30µ”	6 (15.24)	GR	M3KKK-2606J-ND	19.63	172.16
	Au 30µ”	18 (45.72)	MC	M3KKK-2618R-ND	21.33	187.06
	Au 30µ”	18 (45.72)	GR	M3KKK-2618J-ND	20.42	179.05
	Au 30µ”	36 (91.44)	MC	M3KKK-2636R-ND	23.42	205.40
	Au 30µ”	36 (91.44)	GR	M3KKK-2636J-ND	21.59	189.37
30	Au 30µ”	6 (15.24)	MC	M3KKK-3006R-ND	22.04	193.24
	Au 30µ”	6 (15.24)	GR	M3KKK-3006J-ND	21.64	189.75
	Au 30µ”	18 (45.72)	MC	M3KKK-3018R-ND	23.86	209.23
	Au 30µ”	18 (45.72)	GR	M3KKK-3018J-ND	22.67	198.75
	Au 30µ”	36 (91.44)	MC	M3KKK-3036R-ND	26.59	233.22
	Au 30µ”	36 (91.44)	GR	M3KKK-3036J-ND	24.21	212.26
34	Au 30µ”	6 (15.24)	MC	M3KKK-3406R-ND	24.77	217.18
	Au 30µ”	6 (15.24)	GR	M3KKK-3406J-ND	24.37	213.69
	Au 30µ”	18 (45.72)	MC	M3KKK-3418R-ND	26.59	233.17
	Au 30µ”	18 (45.72)	GR	M3KKK-3418J-ND	25.40	222.69
	Au 30µ”	36 (91.44)	MC	M3KKK-3436R-ND	29.32	257.16
	Au 30µ”	36 (91.44)	GR	M3KKK-3436J-ND	26.94	236.20
36	Au 30µ”	6 (15.24)	MC	M3KKK-3606R-ND	26.21	229.86
	Au 30µ”	6 (15.24)	GR	M3KKK-3606J-ND	25.78	226.06
	Au 30µ”	18 (45.72)	MC	M3KKK-3618R-ND	28.20	247.26
	Au 30µ”	18 (45.72)	GR	M3KKK-3618J-ND	26.90	235.86
	Au 30µ”	36 (91.44)	MC	M3KKK-3636R-ND	31.17	273.36
	Au 30µ”	36 (91.44)	GR	M3KKK-3636J-ND	28.57	250.55
40	Au 30µ”	6 (15.24)	MC	M3KKK-4006R-ND	27.53	241.40
	Au 30µ”	6 (15.24)	GR	M3KKK-4006J-ND	27.06	237.29
	Au 30µ”	18 (45.72)	MC	M3KKK-4018R-ND	29.67	260.21
	Au 30µ”	18 (45.72)	GR	M3KKK-4018J-ND	28.27	247.88
	Au 30µ”	36 (91.44)	MC	M3KKK-4036R-ND	32.89	288.42
	Au 30µ”	36 (91.44)	GR	M3KKK-4036J-ND	30.08	263.77
50	Au 30µ”	6 (15.24)	MC	M3KKK-5006R-ND	30.01	263.13
	Au 30µ”	6 (15.24)	GR	M3KKK-5006J-ND	29.42	257.99
	Au 30µ”	18 (45.72)	MC	M3KKK-5018R-ND	32.69	286.64
	Au 30µ”	18 (45.72)	GR	M3KKK-5018J-ND	30.93	271.23
	Au 30µ”	36 (91.44)	MC	M3KKK-5036R-ND	36.71	321.91
	Au 30µ”	36 (91.44)	GR	M3KKK-5036J-ND	33.19	291.08
60	Au 30µ”	6 (15.24)	MC	M3KKK-6006R-ND	35.41	310.51
	Au 30µ”	6 (15.24)	GR	M3KKK-6006J-ND	34.71	304.34
	Au 30µ”	18 (45.72)	MC	M3KKK-6018R-ND	38.63	338.72
	Au 30µ”	18 (45.72)	GR	M3KKK-6018J-ND	36.52	320.23
	Au 30µ”	36 (91.44)	MC	M3KKK-6036R-ND	43.45	381.05
	Au 30µ”	36 (91.44)	GR	M3KKK-6036J-ND	39.23	344.06
64	Au 30µ”	6 (15.24)	MC	M3KKK-6406R-ND	37.79	331.40
	Au 30µ”	6 (15.24)	GR	M3KKK-6406J-ND	37.04	324.82
	Au 30µ”	18 (45.72)	MC	M3KKK-6418R-ND	41.22	361.49
	Au 30µ”	18 (45.72)	GR	M3KKK-6418J-ND	38.97	341.77
	Au 30µ”	36 (91.44)	MC	M3KKK-6436R-ND	46.37	406.64
	Au 30µ”	36 (91.44)	GR	M3KKK-6436J-ND	41.87	367.19

Also available in the following configurations:
M3RRK-□□□□□-ND – Pin Connector without Flange, with Polarizing Key and Strain Relief
M3WWK-□□□□□-ND – Pin Connector with Flange, with Polarizing Key
M3YYK-□□□□□-ND – Pin Connector with Flange, with Polarizing Key and Strain Relief
Call for complete part number and pricing!

Plug Connector to Plug Connector

*Twisted Pair Cable Finished Length is Approximate.

No. of Con- tacts	Conn. Finish	Length In. (cm)	Rib- bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ”	20 (50.80)	TW	M3KKK-1020K-ND	10.46	91.68
	Au 30µ”	40 (101.60)	TW	M3KKK-1040K-ND	11.68	102.43
14	Au 30µ”	20 (50.80)	TW	M3KKK-1420K-ND	14.52	127.33
	Au 30µ”	40 (101.60)	TW	M3KKK-1440K-ND	16.24	142.37
16	Au 30µ”	20 (50.80)	TW	M3KKK-1620K-ND	16.46	144.30
	Au 30µ”	40 (101.60)	TW	M3KKK-1640K-ND	18.42	161.49
20	Au 30µ”	20 (50.80)	TW	M3KKK-2020K-ND	19.35	169.69
	Au 30µ”	40 (101.60)	TW	M3KKK-2040K-ND	21.80	191.18
20	Au 30µ”	20 (50.80)	TW	M3KKK-2620K-ND	22.43	196.66
	Au 30µ”	40 (101.60)	TW	M3KKK-2640K-ND	25.61	224.59
34	Au 30µ”	20 (50.80)	TW	M3KKK-3420K-ND	28.02	245.72
	Au 30µ”	40 (101.60)	TW	M3KKK-3440K-ND	32.19	282.25
40	Au 30µ”	20 (50.80)	TW	M3KKK-4020K-ND	31.36	274.97
	Au 30µ”	40 (101.60)	TW	M3KKK-4040K-ND	36.26	317.95
50	Au 30µ”	20 (50.80)	TW	M3KKK-5020K-ND	34.79	305.09
	Au 30µ”	40 (101.60)	TW	M3KKK-5040K-ND	40.92	358.82
60	Au 30µ”	20 (50.80)	TW	M3KKK-6020K-ND	41.15	360.87
	Au 30µ”	40 (101.60)	TW	M3KKK-6040K-ND	48.50	425.33
64	Au 30µ”	20 (50.80)	TW	M3KKK-6420K-ND	43.92	385.11
	Au 30µ”	40 (101.60)	TW	M3KKK-6440K-ND	51.76	453.88

Also available in the following configurations:

M3RRK-□□□□K-ND – Pin Connector without Flange, with Polarizing Key and Strain Relief.
M3WWK-□□□□K-ND – Pin Connector with Flange, with Polarizing Key.
M3YYK-□□□□K-ND – Pin Connector with Flange, with Polarizing Key and Strain Relief.

Call for complete part number and pricing!

Socket Connector to Plug Connector

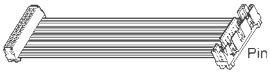

*MC = 3M Multi-Color, GR = 3M Gray

Pin connector without flange, with polarizing key, and socket connector without strain relief shown.

No. of Con- tacts	Conn. Finish	Length In. (cm)	Rib- bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ”	6 (15.24)	MC	M3AKK-1006R-ND	8.00	70.18
	Au 30µ”	6 (15.24)	GR	M3AKK-1006J-ND	7.89	69.16
	Au 30µ”	18 (45.72)	MC	M3AKK-1018R-ND	8.54	74.88
	Au 30µ”	18 (45.72)	GR	M3AKK-1018J-ND	8.19	71.81
	Au 30µ”	36 (91.44)	MC	M3AKK-1036R-ND	9.34	81.94
	Au 30µ”	36 (91.44)	GR	M3AKK-1036J-ND	8.64	75.78
16	Au 30µ”	6 (15.24)	MC	M3AKK-1606R-ND	11.80	103.51
	Au 30µ”	6 (15.24)	GR	M3AKK-1606J-ND	11.62	101.87
	Au 30µ”	18 (45.72)	MC	M3AKK-1618R-ND	12.66	111.04
	Au 30µ”	18 (45.72)	GR	M3AKK-1618J-ND	12.10	106.10
	Au 30µ”	36 (91.44)	MC	M3AKK-1636R-ND	13.95	122.32
	Au 30µ”	36 (91.44)	GR	M3AKK-1636J-ND	12.82	112.46
20	Au 30µ”	6 (15.24)	MC	M3AKK-2006R-ND	13.54	118.70
	Au 30µ”	6 (15.24)	GR	M3AKK-2006J-ND	13.30	116.65
	Au 30µ”	18 (45.72)	MC	M3AKK-2018R-ND	14.61	128.11
	Au 30µ”	18 (45.72)	GR	M3AKK-2018J-ND	13.91	121.94
	Au 30µ”	36 (91.44)	MC	M3AKK-2036R-ND	16.22	142.22
	Au 30µ”	36 (91.44)	GR	M3AKK-2036J-ND	14.81	129.89
24	Au 30µ”	6 (15.24)	MC	M3AKK-2406R-ND	15.40	135.03
	Au 30µ”	6 (15.24)	GR	M3AKK-2406J-ND	15.12	132.57
	Au 30µ”	18 (45.72)	MC	M3AKK-2418R-ND	16.69	146.32
	Au 30µ”	18 (45.72)	GR	M3AKK-2418J-ND	15.84	138.92
	Au 30µ”	36 (91.44)	MC	M3AKK-2436R-ND	18.62	163.25
	Au 30µ”	36 (91.44)	GR	M3AKK-2436J-ND	16.93	148.45
26	Au 30µ”	6 (15.24)	MC	M3AKK-2606R-ND	16.20	142.06
	Au 30µ”	6 (15.24)	GR	M3AKK-2606J-ND	15.90	139.39
	Au 30µ”	18 (45.72)	MC	M3AKK-2618R-ND	17.59	154.28
	Au 30µ”	18 (45.72)	GR	M3AKK-2618J-ND	16.68	146.27
	Au 30µ”	36 (91.44)	MC	M3AKK-2636R-ND	19.69	172.62
	Au 30µ”	36 (91.44)	GR	M3AKK-2636J-ND	17.86	156.60
30	Au 30µ”	6 (15.24)	MC	M3AKK-3006R-ND	18.23	159.90
	Au 30µ”	6 (15.24)	GR	M3AKK-3006J-ND	17.84	156.41
	Au 30µ”	18 (45.72)	MC	M3AKK-3018R-ND	20.06	175.89
	Au 30µ”	18 (45.72)	GR	M3AKK-3018J-ND	18.86	165.41
	Au 30µ”	36 (91.44)	MC	M3AKK-3036R-ND	22.79	199.87
	Au 30µ”	36 (91.44)	GR	M3AKK-3036J-ND	20.40	178.91
34	Au 30µ”	6 (15.24)	MC	M3AKK-3406R-ND	20.51	179.85
	Au 30µ”	6 (15.24)	GR	M3AKK-3406J-ND	20.11	176.36
	Au 30µ”	18 (45.72)	MC	M3AKK-3418R-ND	22.33	195.84
	Au 30µ”	18 (45.72)	GR	M3AKK-3418J-ND	21.14	185.36
	Au 30µ”	36 (91.44)	MC	M3AKK-3436R-ND	25.07	219.82
	Au 30µ”	36 (91.44)	GR	M3AKK-3436J-ND	22.68	198.86
40	Au 30µ”	6 (15.24)	MC	M3AKK-4006R-ND	23.30	204.35
	Au 30µ”	6 (15.24)	GR	M3AKK-4006J-ND	22.83	200.24
	Au 30µ”	18 (45.72)	MC	M3AKK-4018R-ND	25.45	223.16
	Au 30µ”	18 (45.72)	GR	M3AKK-4018J-ND	24.04	210.83
	Au 30µ”	36 (91.44)	MC	M3AKK-4036R-ND	28.67	251.37
	Au 30µ”	36 (91.44)	GR	M3AKK-4036J-ND	25.85	226.72
50	Au 30µ”	6 (15.24)	MC	M3AKK-5006R-ND	26.92	236.05
	Au 30µ”	6 (15.24)	GR	M3AKK-5006J-ND	26.33	230.91
	Au 30µ”	18 (45.72)	MC	M3AKK-5018R-ND	29.60	259.56
	Au 30µ”	18 (45.72)	GR	M3AKK-5018J-ND	27.84	244.15
	Au 30µ”	36 (91.44)	MC	M3AKK-5036R-ND	33.62	294.83
	Au 30µ”	36 (91.44)	GR	M3AKK-5036J-ND	30.11	264.01
60	Au 30µ”	6 (15.24)	MC	M3AKK-6006R-ND	32.45	284.57
	Au 30µ”	6 (15.24)	GR	M3AKK-6006J-ND	31.75	278.41
	Au 30µ”	18 (45.72)	MC	M3AKK-6018R-ND	35.67	312.79
	Au 30µ”	18 (45.72)	GR	M3AKK-6018J-ND	33.56	294.30
	Au 30µ”	36 (91.44)	MC	M3AKK-6036R-ND	40.50	355.11
	Au 30µ”	36 (91.44)	GR	M3AKK-6036J-ND	36.28	318.13

Also available in the following configurations:

M3AWK-□□□□□-ND – Socket Connector Standard; Pin Connector with Flange, with Polarizing Key
M3BRK-□□□□□-ND – Socket Connector with SR; Pin Connector without Flange, with Polarizing Key and Strain Relief
M3BYK-□□□□□-ND – Socket Connector with Strain Relief; Pin Connector with Flange, with Polarizing Key and Strain Relief
M3CKK-□□□□□-ND – Socket Connector Open with Polarizing Key
M3CWK-□□□□□-ND – Socket Connector with Polarizing Key; Pin Connector with Flange, with Polarizing Key
M3DRK-□□□□□-ND – Socket Connector with Polarizing Key and SR; Pin Connector without Flange, with PK and SR
M3DYK-□□□□□-ND – Socket Connector with Polarizing Key and SR; Pin Connector with Flange, with Polarizing Key and SR
M3TKK-□□□□□-ND – Socket Connector Closed with Polarizing Key
M3URK-□□□□□-ND – Socket Connector Closed End with PK and SR; Pin Connector without Flange, with PK and SR
M3UYK-□□□□□-ND – Socket Connector Closed End with PK and SR; Pin Connector with Flange, with PK and Strain Relief

Call for complete part number and pricing!

Socket Connector to Plug Connector

*Twisted Pair Cable Finished Length is Approximate.

No. of Con- tacts	Conn. Finish	Length In. (cm)	Rib- bon* Cable	Digi-Key Part No.	Pricing 1	10
10	Au 30µ”	20 (50.80)	TW	M3AKK-1020K-ND	8.96	78.57
	Au 30µ”	40 (101.60)	TW	M3AKK-1040K-ND	10.19	89.32
	Au 30µ”	60 (152.40)	TW	M3AKK-1060K-ND	11.41	100.06
16	Au 30µ”	20 (50.80)	TW	M3AKK-1620K-ND	13.34	116.94
	Au 30µ”	40 (101.60)	TW	M3AKK-1640K-ND	15.30	134.13
	Au 30µ”	60 (152.40)	TW	M3AKK-1660K-ND	17.26	151.32
20	Au 30µ”	20 (50.80)	TW	M3AKK-2020K-ND	15.45	135.49
	Au 30µ”	40 (101.60)	TW	M3AKK-2040K-ND	17.90	156.98
	Au 30µ”	60 (152.40)	TW	M3AKK-2060K-ND	20.35	178.47
26	Au 30µ”	20 (50.80)	TW	M3AKK-2620K-ND	18.69	163.88
	Au 30µ”	40 (101.60)	TW	M3AKK-2640K-ND	21.87	191.82
	Au 30µ”	60 (152.40)	TW	M3AKK-2660K-ND	25.06	219.75
34	Au 30µ”	20 (50.80)	TW	M3AKK-3420K-ND	23.76	208.39
	Au 30µ”	40 (101.60)	TW	M3AKK-3440K-ND	27.93	244.92
	Au 30µ”	60 (152.40)	TW	M3AKK-3460K-ND	32.10	281.45
40	Au 30µ”	20 (50.80)	TW	M3AKK-4020K-ND	27.13	237.92
	Au 30µ”	40 (101.60)	TW	M3AKK-4040K-ND	32.03	280.90
	Au 30µ”	60 (152.40)	TW	M3AKK-4060K-ND	36.93	323.87
50	Au 30µ”	20 (50.80)	TW	M3AKK-5020K-ND	31.70	278.02
	Au 30µ”	40 (101.60)	TW	M3AKK-5040K-ND	37.83	331.74
	Au 30µ”	60 (152.40)	TW	M3AKK-5060K-ND	43.96	385.46
60	Au 30µ”	20 (50.80)	TW	M3AKK-6020K-ND	38.19	334.93
	Au 30µ”	40 (101.60)	TW	M3AKK-6040K-ND	45.55	399.40
	Au 30µ”	60 (152.40)	TW	M3AKK-6060K-ND	52.90	463.87

Also available in the following configurations:

M3AWK-□□□□K-ND – Socket Connector/Pin Connector w/ Flange w/ PK.
M3BRK-□□□□K-ND – Socket Connector with SR, Pin Connector without Flange with PK and SR.
M3BYK-□□□□K-ND – Socket Connector with SR, Pin Connector with Flange with PK and SR.
M3CKK-□□□□K-ND – Socket Connector with PK, Pin Connector without Flange with PK.
M3CWK-□□□□K-ND – Socket Connector with PK, Pin Connector with Flange with PK.
M3DRK-□□□□K-ND – Socket Connector with PK and SR, Pin Connector without Flange with PK and SR.
M3DYK-□□□□K-ND – Socket Connector with PK and SR, Pin Connector with Flange with PK and SR.
M3TKK-□□□□K-ND – Closed End Socket Connector with PK, Pin Connector without Flange with PK.
M3URK-□□□□K-ND – Closed End Socket Connector with PK and SR, Pin Connector without Flange with PK and SR.
M3UYK-□□□□K-ND – Closed End Socket Connector with PK and SR, Pin Connector with Flange with PK and SR.

Call for complete part number and pricing!

M□□□□-□□□□□-ND

Style
1□□ Single Ended
3□□ Double Ended

Conn. Finish
G = Gold ≤15µ
K = Gold >15µ Gold- Copper beryllium pin plating

No. Of Contacts

Length ***(Use “Inches” only.)***

Ribbon Cable
R=Multi-color
J=Gray
K=Twisted Pair

Delta Flat Ribbon Cable Connectors

Physical Specifications: • Insulation Material: Glass reinforced polyester (PBT) • Flammability Rating: UL94V-0 • Color: Gray • Contact Material: Flat Cable Connectors: Beryllium copper • Latch Eject Headers: Copper alloy • Plating: 30µ” gold **Electrical Specifications:** • Current Rating: 1A • Insulation Resistance: >1x109 Ω @ 500VDC • Withstanding Voltage: 1000VRMS @ sea level **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080; CSA File No.: LR-40971

3 mounting designs available. Those with **Prefix MDA** on Digi-Key part number: combination mount, which is a universal mount type that accepts both bail and screw mount hardware. **Prefix MDC:** bail mount, which can be used as a standard I/O connector for various electronic applications; positive latching and easy disconnect. **Prefix MDB:** screw mount, which have #4-40 threaded insert that simplifies mounting when a more permanent connection is desired.

Wire Accommodation: 26-30AWG stranded

Plug

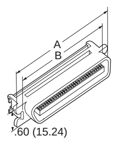

Socket

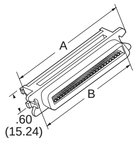

No. of Cont.	Dim. – In. (mm) A	B	Digi-Key Part No.	Pricing 1	10	3M Part No.
			Plugs			
14	1.75 (44.45)	1.42 (36.07)	MDA14K-ND	4.99	42.00	3572-1000
	1.58 (40.13)	1.20 (30.48)	MDC14K-ND	5.76	48.48	3572-1001
	1.75 (44.45)	1.42 (36.07)	MDB14K-ND	5.37	45.15	3572-1002
24	2.17 (55.12)	1.84 (46.74)	MDA24K-ND	5.80	48.83	3548-1000
	2.00 (50.80)	1.63 (41.40)	MDC24K-ND	5.49	46.20	3548-1001
	2.17 (55.12)	1.84 (46.74)	MDB24K-ND	7.11	59.85	3548-1002
36	2.68 (68.07)	2.35 (59.69)	MDA36K-ND	7.32	61.60	3366-1000
	2.52 (64.01)	2.14 (54.36)	MDC36K-ND	6.74	56.70	3366-1001
	2.68 (68.07)	2.35 (59.69)	MDB36K-ND	6.88	57.93	3366-1002
50	3.27 (83.06)	2.95 (74.93)	MDA50K-ND	8.05	67.73	3564-1000
	3.11 (78.99)	2.73 (69.34)	MDC50K-ND	8.53	71.75	3564-1001
	3.27 (83.06)	2.95 (74.93)	MDB50K-ND	8.47	71.23	3564-1002
			Sockets			
14	1.75 (44.45)	1.42 (36.07)	MDD14K-ND	6.66	56.00	3573-1000
	1.58 (40.13)	1.20 (30.48)	MDF14K-ND	4.60	38.68	3573-1001
	1.75 (44.45)	1.42 (36.07)	MDE14K-ND	6.07	51.10	3573-1002
24	2.17 (55.12)	1.84 (46.74)	MDD24K-ND	5.22	43.93	3549-1000
	2.00 (50.80)	1.63 (41.40)	MDF24K-ND	5.45	45.85	3549-1001
	2.17 (55.12)	1.84 (46.74)	MDE24K-ND	5.55	46.73	3549-1002
36	2.68 (68.07)	2.35 (59.69)	MDD36K-ND	6.43	54.08	3367-1000
	2.52 (64.01)	2.14 (54.36)	MDF36K-ND	7.20	60.55	3367-1001
	2.68 (68.07)	2.35 (59.69)	MDE36K-ND	7.63	64.23	3367-1002
50	3.27 (83.06)	2.95 (74.93)	MDD50K-ND	7.65	64.40	3565-1000
	3.11 (78.99)	2.73 (69.34)	MDF50K-ND	9.07	76.30	3565-1001
	3.27 (83.06)	2.95 (74.93)	MDE50K-ND	8.47	71.23	3565-1002
			Backshells			
50	—	—	MDBF50-ND	3.58	30.10	3485-2500
			Metal Strain Reliefs			
14	—	—	MDSF14-ND	.44	3.68	3448-60
24	—	—	MDSF24-ND	.44	3.68	3448-61
36	—	—	MDSF36-ND	.52	4.38	3448-62
50	—	—	MDSF50-ND	.52	4.38	3448-63

3M Pak 100 PCB Connectors

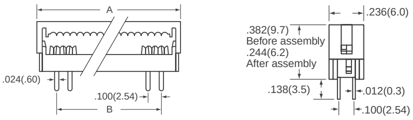

Series 994 is a low cost, insulation displacement connector (IDC) designed for soldering of flat ribbon cable to a PC board. Use with 28AWG PVC standard ribbon cable.

Physical Specifications: • Insulation Material: Glass filled Thermoplastic • Flammability Rating: UL94V-0 • Color: Black **Electrical Specifications:** • Current Rating: 1A • Withstanding Voltage: 650VAC for 1 minute **Environmental Specifications:** • Temperature Rating: -55°C ~ 105°C **Connector Finish:** Tin-Lead

No. of Cont.	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	3M Part No.
16	0.989 (25.12)	0.700 (17.78)	MDM16T-ND	1.37	11.12	99416-0016T
20	1.189 (30.20)	0.900 (22.86)	MDM20T-ND	1.58	12.83	99420-0016T
24	1.389 (35.28)	1.100 (27.94)	MDM24T-ND	1.82	14.82	99424-0016T
26	1.489 (37.82)	1.200 (30.48)	MDM26T-ND	1.82	14.82	99426-0016T
30	1.689 (42.90)	1.400 (35.56)	MDM30T-ND	2.21	17.96	99430-0016T
34	1.889 (47.98)	1.600 (40.64)	MDM34T-ND	2.28	18.53	99434-0016T
36	1.989 (50.52)	1.700 (43.18)	MDM36T-ND	2.52	20.52	99436-0016T
40	2.189 (55.60)	1.900 (48.26)	MDM40T-ND	2.70	21.95	99440-0016T
50	2.689 (68.30)	2.400 (60.96)	MDM50T-ND	3.47	28.22	99450-0016T

PCB Cable Assemblies

Single Ended — Style 2

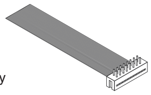

Connector Finish: Tin

*MC = 3M Multi-Color, GR = 3M Gray

No. of Cont.	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10	100
10	6 (15.24)	MC	M2MXT-1006R-ND	1.24	10.90	80.33
	6 (15.24)	GR	M2MXT-1006J-ND	1.13	9.88	72.77
	18 (45.72)	MC	M2MXT-1018R-ND	1.78	15.60	114.98
	18 (45.72)	GR	M2MXT-1018J-ND	1.43	12.53	92.30
	36 (91.44)	MC	M2MXT-1036R-ND	2.58	22.66	166.95
	36 (91.44)	GR	M2MXT-1036J-ND	1.88	16.50	121.59
14	6 (15.24)	MC	M2MXT-1406R-ND	1.58	13.84	101.96
	6 (15.24)	GR	M2MXT-1406J-ND	1.41	12.40	91.36
	18 (45.72)	MC	M2MXT-1418R-ND	2.33	20.42	150.47
	18 (45.72)	GR	M2MXT-1418J-ND	1.84	16.11	118.67
	36 (91.44)	MC	M2MXT-1436R-ND	3.45	30.30	223.23
	36 (91.44)	GR	M2MXT-1436J-ND	2.47	21.67	159.64
16	6 (15.24)	MC	M2MXT-1606R-ND	1.70	14.88	109.62
	6 (15.24)	GR	M2MXT-1606J-ND	1.51	13.23	97.51
	18 (45.72)	MC	M2MXT-1618R-ND	2.55	22.40	165.06
	18 (45.72)	GR	M2MXT-1618J-ND	1.99	17.47	128.72
	36 (91.44)	MC	M2MXT-1636R-ND	3.84	33.69	248.22
	36 (91.44)	GR	M2MXT-1636J-ND	2.72	23.82	175.54
20	6 (15.24)	MC	M2MXT-2006R-ND	2.00	17.53	129.15
	6 (15.24)	GR	M2MXT-2006J-ND	1.76	15.47	114.01
	18 (45.72)	MC	M2MXT-2018R-ND	3.07	26.93	198.45
	18 (45.72)	GR	M2MXT-2018J-ND	2.37	20.77	153.04
	36 (91.44)	MC	M2MXT-2036R-ND	4.68	41.04	302.40
	36 (91.44)	GR	M2MXT-2036J-ND	3.27	28.71	211.58
24	6 (15.24)	MC	M2MXT-2406R-ND	2.33	20.46	150.78
	6 (15.24)	GR	M2MXT-2406J-ND	2.05	18.00	132.61
	18 (45.72)	MC	M2MXT-2418R-ND	3.62	31.75	233.94
	18 (45.72)	GR	M2MXT-2418J-ND	2.78	24.35	179.43
	36 (91.44)	MC	M2MXT-2436R-ND	5.55	48.68	358.68
	36 (91.44)	GR	M2MXT-2436J-ND	3.86	33.88	249.67
26	6 (15.24)	MC	M2MXT-2606R-ND	2.39	20.93	154.25
	6 (15.24)	GR	M2MXT-2606J-ND	2.08	18.26	134.56
	18 (45.72)	MC	M2MXT-2618R-ND	3.78	33.16	244.34
	18 (45.72)	GR	M2MXT-2618J-ND	2.87	25.15	185.28
	36 (91.44)	MC	M2MXT-2636R-ND	5.87	51.50	379.47
	36 (91.44)	GR	M2MXT-2636J-ND	4.04	35.47	261.37
34	6 (15.24)	MC	M2MXT-3406R-ND	3.02	26.52	195.41
	6 (15.24)	GR	M2MXT-3406J-ND	2.63	23.03	169.67
	18 (45.72)	MC	M2MXT-3418R-ND	4.85	42.51	313.22
	18 (45.72)	GR	M2MXT-3418J-ND	3.65	32.03	236.01
	36 (91.44)	MC	M2MXT-3436R-ND	7.58	66.49	489.93
	36 (91.44)	GR	M2MXT-3436J-ND	5.19	45.53	335.52
40	6 (15.24)	MC	M2MXT-4006R-ND	3.58	31.35	231.00
	6 (15.24)	GR	M2MXT-4006J-ND	3.11	27.24	200.72
	18 (45.72)	MC	M2MXT-4018R-ND	5.72	50.16	369.60
	18 (45.72)	GR	M2MXT-4018J-ND	4.31	37.83	278.78
	36 (91.44)	MC	M2MXT-4036R-ND	8.94	78.38	577.50
	36 (91.44)	GR	M2MXT-4036J-ND	6.13	53.72	395.85
50	6 (15.24)	MC	M2MXT-5006R-ND	4.56	39.97	294.53
	6 (15.24)	GR	M2MXT-5006J-ND	3.97	34.83	256.67
	18 (45.72)	MC	M2MXT-5018R-ND	7.24	63.48	467.78
	18 (45.72)	GR	M2MXT-5018J-ND	5.48	48.07	354.22
	36 (91.44)	MC	M2MXT-5036R-ND	11.26	98.75	727.65
	36 (91.44)	GR	M2MXT-5036J-ND	7.75	67.93	500.54
60	6 (15.24)	MC	M2MXT-6006R-ND	5.41	47.45	349.65
	6 (15.24)	GR	M2MXT-6006J-ND	4.71	41.29	304.23
	18 (45.72)	MC	M2MXT-6018R-ND	8.63	75.67	557.55
	18 (45.72)	GR	M2MXT-6018J-ND	6.52	57.18	421.29
	36 (91.44)	MC	M2MXT-6036R-ND	13.46	117.99	869.40
	36 (91.44)	GR	M2MXT-6036J-ND	9.24	81.01	596.88
Twisted Pair						
10	20 (50.80)	MC	M2MXT-1020K-ND	2.20	19.29	142.17
	40 (101.60)	MC	M2MXT-1040K-ND	3.43	30.04	221.34
	60 (152.40)	MC	M2MXT-1060K-ND	4.65	40.78	300.51
14	20 (50.80)	MC	M2MXT-1420K-ND	2.92	25.59	188.54
	40 (101.60)	MC	M2MXT-1440K-ND	4.63	40.63	299.38
	60 (152.40)	MC	M2MXT-1460K-ND	6.35	55.67	410.21
16	20 (50.80)	MC	M2MXT-1620K-ND	3.23	28.31	208.57
	40 (101.60)	MC	M2MXT-1640K-ND	5.19	45.50	335.24
	60 (152.40)	MC	M2MXT-1660K-ND	7.15	62.69	461.92
20	20 (50.80)	MC	M2MXT-2020K-ND	3.91	34.31	252.84
	40 (101.60)	MC	M2MXT-2040K-ND	6.36	55.80	411.18
	60 (152.40)	MC	M2MXT-2060K-ND	8.81	77.29	569.52
24	20 (50.80)	MC	M2MXT-2420K-ND	4.14	36.31	267.54
	40 (101.60)	MC	M2MXT-2440K-ND	6.59	57.80	425.88
	60 (152.40)	MC	M2MXT-2460K-ND	9.04	79.29	584.22
26	20 (50.80)	MC	M2MXT-2620K-ND	4.88	42.76	315.04
	40 (101.60)	MC	M2MXT-2640K-ND	8.06	70.69	520.88
	60 (152.40)	MC	M2MXT-2660K-ND	11.25	98.63	726.73
34	20 (50.80)	MC	M2MXT-3420K-ND	6.28	55.06	405.68
	40 (101.60)	MC	M2MXT-3440K-ND	10.44	91.59	674.86
	60 (152.40)	MC	M2MXT-3460K-ND	14.61	128.12	944.03
40	20 (50.80)	MC	M2MXT-4020K-ND	7.40	64.92	478.38
	40 (101.60)	MC	M2MXT-4040K-ND	12.30	107.90	795.06
	60 (152.40)	MC	M2MXT-4060K-ND	17.21	150.88	1111.74
50	20 (50.80)	MC	M2MXT-5020K-ND	9.34	81.94	603.75
	40 (101.60)	MC	M2MXT-5040K-ND	15.47	135.66	999.60
	60 (152.40)	MC	M2MXT-5060K-ND	21.60	189.38	1395.45
60	20 (50.80)	MC	M2MXT-6020K-ND	11.15	97.81	720.72
	40 (101.60)	MC	M2MXT-6040K-ND	18.51	162.28	1195.74
	60 (152.40)	MC	M2MXT-6060K-ND	25.86	226.75	1670.76

Double Ended — Style 6

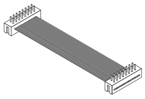

Connector Finish: Tin

*MC = 3M Multi-Color, GR = 3M Gray

No. of Cont.	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10	100
10	6 (15.24)	MC	M6MMT-1006R-ND	2.22	19.45	143.33
	6 (15.24)	GR	M6MMT-1006J-ND	2.10	18.43	135.77
	18 (45.72)	MC	M6MMT-1018R-ND	2.75	24.15	177.98
	18 (45.72)	GR	M6MMT-1018J-ND	2.40	21.08	155.30
	36 (91.44)	MC	M6MMT-1036R-ND	3.56	31.21	229.95
	36 (91.44)	GR	M6MMT-1036J-ND	2.86	25.05	184.59
14	6 (15.24)	MC	M6MMT-1406R-ND	2.78	24.38	179.66
	6 (15.24)	GR	M6MMT-1406J-ND	2.62	22.94	169.06
	18 (45.72)	MC	M6MMT-1418R-ND	3.53	30.97	228.17
	18 (45.72)	GR	M6MMT-1418J-ND	3.04	26.65	196.37
	36 (91.44)	MC	M6MMT-1436R-ND	4.66	40.84	300.93
	36 (91.44)	GR	M6MMT-1436J-ND	3.67	32.21	237.34
16	6 (15.24)	MC	M6MMT-1606R-ND	2.96	25.99	191.52
	6 (15.24)	GR	M6MMT-1606J-ND	2.78	24.35	179.41
	18 (45.72)	MC	M6MMT-1618R-ND	3.82	33.52	246.96
	18 (45.72)	GR	M6MMT-1618J-ND	3.26	28.58	210.62
	36 (91.44)	MC	M6MMT-1636R-ND	5.11	44.80	330.12
	36 (91.44)	GR	M6MMT-1636J-ND	3.98	34.94	257.44
20	6 (15.24)	MC	M6MMT-2006R-ND	3.46	30.35	223.65
	6 (15.24)	GR	M6MMT-2006J-ND	3.23	28.30	208.51
	18 (45.72)	MC	M6MMT-2018R-ND	4.53	39.76	292.95
	18 (45.72)	GR	M6MMT-2018J-ND	3.83	33.59	247.54
	36 (91.44)	MC	M6MMT-2036R-ND	6.14	53.87	396.90
	36 (91.44)	GR	M6MMT-2036J-ND	4.74	41.54	306.08
24	6 (15.24)	MC	M6MMT-2406R-ND	4.02	35.28	259.98
	6 (15.24)	GR	M6MMT-2406J-ND	3.74	32.82	241.81
	18 (45.72)	MC	M6MMT-2418R-ND	5.31	46.57	343.14
	18 (45.72)	GR	M6MMT-2418J-ND	4.47	39.17	288.63
	36 (91.44)	MC	M6MMT-2436R-ND	7.24	63.50	467.88
	36 (91.44)	GR	M6MMT-2436J-ND	5.55	48.70	358.87
26	6 (15.24)	MC	M6MMT-2606R-ND	4.08	35.75	263.45
	6 (15.24)	GR	M6MMT-2606J-ND	3.77	33.08	243.76
	18 (45.72)	MC	M6MMT-2618R-ND	5.47	47.98	353.54
	18 (45.72)	GR	M6MMT-2618J-ND	4.56	39.97	294.48
	36 (91.44)	MC	M6MMT-2636R-ND	7.56	66.32	488.67
	36 (91.44)	GR	M6MMT-2636J-ND	5.73	50.29	370.57
34	6 (15.24)	MC	M6MMT-3406R-ND	5.14	45.04	331.91
	6 (15.24)	GR	M6MMT-3406J-ND	4.74	41.55	306.17
	18 (45.72)	MC	M6MMT-3418R-ND	6.96	61.03	449.72
	18 (45.72)	GR	M6MMT-3418J-ND	5.77	50.55	372.51
	36 (91.44)	MC	M6MMT-3436R-ND	9.69	85.02	626.43
	36 (91.44)	GR	M6MMT-3436J-ND	7.31	64.06	472.02
40	6 (15.24)	MC	M6MMT-4006R-ND	6.08	53.30	392.70
	6 (15.24)	GR	M6MMT-4006J-ND	5.61	49.19	362.42
	18 (45.72)	MC	M6MMT-4018R-ND	8.22	72.11	531.30
	18 (45.72)	GR	M6MMT-4018J-ND	6.82	59.78	440.48
	36 (91.44)	MC	M6MMT-4036R-ND	11.44	100.32	739.20
	36 (91.44)	GR	M6MMT-4036J-ND	8.63	75.67	557.55
50	6 (15.24)	MC	M6MMT-5006R-ND	7.78	68.19	502.43
	6 (15.24)	GR	M6MMT-5006J-ND	7.19	63.05	464.57
	18 (45.72)	MC	M6MMT-5018R-ND	10.46	91.70	675.68
	18 (45.72)	GR	M6MMT-5018J-ND	8.70	76.29	562.12
	36 (91.44)	MC	M6MMT-5036R-ND	14.48	126.97	935.55
	36 (91.44)	GR	M6MMT-5036J-ND	10.96	96.14	708.44
60	6 (15.24)	MC	M6MMT-6006R-ND	9.21	80.80	595.35
	6 (15.24)	GR	M6MMT-6006J-ND	8.51	74.63	549.93
	18 (45.72)	MC	M6MMT-6018R-ND	12.43	109.01	803.25
	18 (45.72)	GR	M6MMT-6018J-ND	10.32	90.52	666.99
	36 (91.44)	MC	M6MMT-6036R-ND	17.26	151.34	1115.10
	36 (91.44)	GR	M6MMT-6036J-ND	13.04	114.35	842.58
Twisted Pair						
10	20 (50.80)	MC	M6MMT-1020K-ND	3.18	27.84	205.17
	40 (101.60)	MC	M6MMT-1040K-ND	4.40	38.59	284.34
	60 (152.40)	MC	M6MMT-1060K-ND	5.63	49.33	363.51
14	20 (50.80)	MC	M6MMT-1420K-ND	4.12	36.13	266.24
	40 (101.60)	MC	M6MMT-1440K-ND	5.84	51.17	377.08
	60 (152.40)	MC	M6MMT-1460K-ND	7.55	66.22	487.91
16	20 (50.80)	MC	M6MMT-1620K-ND	4.50	39.42	290.47
	40 (101.60)	MC	M6MMT-1640K-ND	6.46	56.61	417.14
	60 (152.40)	MC	M6MMT-1660K-ND	8.42	73.80	543.82
20	20 (50.80)	MC	M6MMT-2020K-ND	5.38	47.14	347.34
	40 (101.60)	MC	M6MMT-2040K-ND	7.83	68.63	505.68
	60 (152.40)	MC	M6MMT-2060K-ND	10.28	90.12	664.02
24	20 (50.80)	MC	M6MMT-2420K-ND	5.83	51.13	376.74
	40 (101.60)	MC	M6MMT-2440K-ND	8.28	72.62	535.08
	60 (152.40)	MC	M6MMT-2460K-ND	10.73	94.11	693.42
26	20 (50.80)	MC	M6MMT-2620K-ND	6.57	57.58	424.24
	40 (101.60)	MC	M6MMT-2640K-ND	9.75	85.51	630.08
	60 (152.40)	MC	M6MMT-2660K-ND	12.94	113.45	835.93
34	20 (50.80)	MC	M6MMT-3420K-ND	8.39	73.58	542.18
	40 (101.60)	MC	M6MMT-3440K-ND	12.56	110.11	811.36
	60 (152.40)	MC	M6MMT-3460K-ND	16.72	146.64	1080.53
40	20 (50.80)	MC	M6MMT-4020K-ND	9.91	86.87	640.08
	40 (101.60)	MC	M6MMT-4040K-ND	14.81	129.85	956.76
	60 (152.40)	MC	M6MMT-4060K-ND	19.71	172.82	1273.44
50	20 (50.80)	MC	M6MMT-5020K-ND	12.56	110.15	811.65
	40 (101.60)	MC	M6MMT-5040K-ND	18.69	163.88	1207.50
	60 (152.40)	MC	M6MMT-5060K-ND	24.81	217.60	1603.35
60	20 (50.80)	MC	M6MMT-6020K-ND	14.96	131.16	966.42
	40 (101.60)	MC	M6MMT-6040K-ND	22.31	195.62	1441.44
	60 (152.40)	MC	M6MMT-6060K-ND	29.66	260.09	1916.46

Double Ended — Style 8

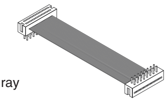

Connector Finish: Tin

*MC = 3M Multi-Color, GR = 3M Gray

No. of Cont.	Length Inch (cm)	Ribbon* Cable	Digi-Key Part No.	Pricing 1	10	100
10	6 (15.24)	MC	M8MMT-1006R-ND	2.22	19.45	143.33
	6 (15.24)	GR	M8MMT-1006J-ND	2.10	18.43	135.77
	18 (45.72)	MC	M8MMT-1018R-ND	2.75	24.15	177.98
	18 (45.72)	GR	M8MMT-1018J-ND	2.40	21.08	155.30
	36 (91.44)	MC	M8MMT-1036R-ND	3.56	31.21	229.95
	36 (91.44)	GR	M8MMT-1036J-ND	2.86	25.05	184.59
14	6 (15.24)	MC	M8MMT-1406R-ND	2.78	24.38	179.66
	6 (15.24)	GR	M8MMT-1406J-ND	2.62	22.94	169.06
	18 (45.72)	MC	M8MMT-1418R-ND	3.53	30.97	228.17
	18 (45.72)	GR	M8MMT-1418J-ND	3.04	26.65	196.37
	36 (91.44)	MC	M8MMT-1436R-ND	4.66	40.84	300.93
	36 (91.44)	GR	M8MMT-1436J-ND	3.67	32.21	237.34
16	6 (15.24)	MC	M8MMT-1606R-ND	2.96	25.99	191.52
	6 (15.24)	GR	M8MMT-1606J-ND	2.78	24.35	179.41
	18 (45.72)	MC	M8MMT-1618R-ND	3.82	33.52	246.96
	18 (45.72)	GR	M8MMT-1618J-ND	3.26	28.58	210.62
	36 (91.44)	MC	M8MMT-1636R-ND	5.11	44.80	330.12
	36 (91.44)	GR	M8MMT-1636J-ND	3.98	34.94	257.44
20	6 (15.24)	MC	M8MMT-2006R-ND	3.46	30.35	223.65
	6 (15.24)	GR	M8MMT-2006J-ND	3.23	28.30	208.51
	18 (45.72)	MC	M8MMT-2018R-ND	4.53	39.76	292.95
	18 (45.72)	GR	M8MMT-2018J-ND	3.83	33.59	247.54
	36 (91.44)	MC	M8MMT-2036R-ND	6.14	53.87	396.90
	36 (91.44)	GR	M8MMT-2036J-ND	4.74	41.54	306.08
24	6 (15.24)	MC	M8MMT-2406R-ND	4.02	35.28	259.98
	6 (15.24)	GR	M8MMT-2406J-ND	3.74	32.82	241.81
	18 (45.72)	MC	M8MMT-2418R-ND	5.31	46.57	343.14
	18 (45.72)	GR	M8MMT-2418J-ND	4.47	39.17	288.63
	36 (91.44)	MC	M8MMT-2436R-ND	7.24	63.50	467.88
	36 (91.44)	GR	M8MMT-2436J-ND	5.55	48.70	358.87
26	6 (15.24)	MC	M8MMT-2606R-ND	4.08	35.75	263.45
	6 (15.24)	GR	M8MMT-2606J-ND	3.77	33.08	243.76
	18 (45.72)	MC	M8MMT-2618R-ND	5.47	47.98	353.54
	18 (45.72)	GR	M8MMT-2618J-ND	4.56	39.97	294.48
	36 (91.44)	MC	M8MMT-2636R-ND	7.56	66.32	488.67
	36 (91.44)	GR	M8MMT-2636J-ND	5.73	50.29	370.57
34	6 (15.24)	MC	M8MMT-3406R-ND	5.14	45.04	331.91
	6 (15.24)	GR	M8MMT-3406J-ND	4.74	41.55	306.17
	18 (45.72)	MC	M8MMT-3418R-ND	6.96	61.03	449.72
	18 (45.72)	GR	M8MMT-3418J-ND	5.77	50.55	372.51
	36 (91.44)	MC	M8MMT-3436R-ND	9.69	85.02	626.43
	36 (91.44)	GR	M8MMT-3436J-ND	7.31	64.06	472.02
40	6 (15.24)	MC	M8MMT-4006R-ND	6.08	53.30	392.70
	6 (15.24)	GR	M8MMT-4006J-ND	5.61	49.19	362.42
	18 (45.72)	MC	M8MMT-4018R-ND	8.22	72.11	531.30
	18 (45.72)	GR	M8MMT-4018J-ND	6.82	59.78	440.48
	36 (91.44)	MC	M8MMT-4036R-ND	11.44	100.32	739.20
	36 (91.44)	GR	M8MMT-4036J-ND	8.63	75.67	557.55
50	6 (15.24)	MC	M8MMT-5006R-ND	7.78	68.19	502.43
	6 (15.24)	GR	M8MMT-5006J-ND	7.19	63.05	464.57
	18 (45.72)	MC	M8MMT-5018R-ND	10.46	91.70	675.68
	18 (45.72)	GR	M8MMT-5018J-ND	8.70	76.29	562.12
	36 (91.44)	MC	M8MMT-5036R-ND	14.48	126.97	935.55
	36 (91.44)	GR	M8MMT-5036J-ND	10.96	96.14	708.44
60	6 (15.24)	MC	M8MMT-6006R-ND	9.21	80.80	595.35
	6 (15.24)	GR	M8MMT-6006J-ND	8.51	74.63	549.93
	18 (45.72)	MC	M8MMT-6018R-ND	12.43	109.01	803.25
	18 (45.72)	GR	M8MMT-6018J-ND	10.32	90.52	666.99
	36 (91.44)	MC	M8MMT-6036R-ND	17.26	151.34	1115.10
	36 (91.44)	GR	M8MMT-6036J-ND	13.04	114.35	842.58
Twisted Pair						
10	20 (50.80)	MC	M8MMT-1020K-ND	3.18	27.84	205.17
	40 (101.60)	MC	M8MMT-1040K-ND	4.40	38.59	284.34
	60 (152.40)	MC	M8MMT-1060K-ND	5.63	49.33	363.51
14	20 (50.80)	MC	M8MMT-1420K-ND	4.12	36.13	266.24
	40 (101.60)	MC	M8MMT-1440K-ND	5.84	51.17	377.08
	60 (152.40)	MC	M8MMT-1460K-ND	7.55	66.22	487.91
16	20 (50.80)	MC	M8MMT-1620K-ND	4.50	39.42	290.47
	40 (101.60)	MC	M8MMT-1640K-ND	6.46	56.61	417.14
	60 (152.40)	MC	M8MMT-1660K-ND	8.42	73.80	543.82
20	20 (50.80)	MC	M8MMT-2020K-ND	5.38	47.14	347.34
	40 (101.60)	MC	M8MMT-2040K-ND	7.83	68.63	505.68
	60 (152.40)	MC	M8MMT-2060K-ND	10.28	90.12	664.02
24	20 (50.80)	MC	M8MMT-2420K-ND	5.83	51.13	376.74
	40 (101.60)	MC	M8MMT-2440K-ND	8.28	72.62	535.08
	60 (152.40)	MC	M8MMT-2460K-ND	10.73	94.11	693.42
26	20 (50.80)	MC	M8MMT-2620K-ND	6.57	57.58	424.24
	40 (101.60)	MC	M8MMT-2640K-ND	9.75	85.51	630.08
	60 (152.40)	MC	M8MMT-2660K-ND	12.94	113.45	835.93
34	20 (50.80)	MC	M8MMT-3420K-ND	8.39	73.58	542.18
	40 (101.60)	MC	M8MMT-3440K-ND	12.56	110.11	811.36
	60 (152.40)	MC	M8MMT-3460K-ND	16.72	146.64	1080.53
40	20 (50.80)	MC	M8MMT-4020K-ND	9.91	86.87	640.08
	40 (101.60)	MC	M8MMT-4040K-ND	14.81	129.85	956.76
	60 (152.40)	MC	M8MMT-4060K-ND	19.71	172.82	1273.44
50	20 (50.80)	MC	M8MMT-5020K-ND	12.56	110.15	811.65
	40 (101.60)	MC	M8MMT-5040K-ND	18.69	163.88	1207.50
	60 (152.40)	MC	M8MMT-5060K-ND	24.81	217.60	1603.35
60	20 (50.80)	MC	M8MMT-6020K-ND	14.96	131.16	966.42
	40 (101.60)	MC	M8MMT-6040K-ND	22.31	195.62	1441.44
	60 (152.40)	MC	M8MMT-6060K-ND	29.66	260.09	1916.46

3M Mini D Ribbon (MDR) Connectors

Dim. in Inches(mm)

Fig. 1 — IDC Wiremount

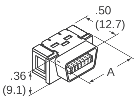

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ minimum Gold • Wire Accommodation: 28AWG Stranded, 30AWG Solid • IEEE 1284C Interface as a 36 Contact Connector

Fig. 2 — Solder Connector

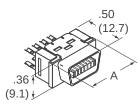

- Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 20µ minimum Gold • Solder Area: Tin-Lead • Wire Accommodation: 24, 26, 28 & 30AWG

Fig. 3 — Boardmount Thru-Hole Right Angle

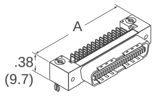

- Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 30µ minimum Gold • IEEE 1284C Interface as a 36 Contact Connector

Fig. 4 — IDC Wiremount Panelmount

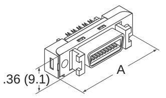

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ minimum Gold • Wire Accommodation: 28AWG Stranded, 30AWG Solid • IEEE 1284C Interface as a 36 Contact Connector • Interface latch

Fig. 5 — Boardmount Thru-Hole Right Angle

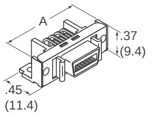

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ minimum Gold • Interface latch

Fig. 6 — Boardmount Thru-Hole Vertical

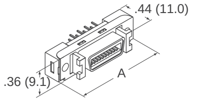

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ minimum Gold • IEEE 1284C Interface as a 36 Contact Connector • Interface latch

Fig. 7 — Surface Mount Right Angle

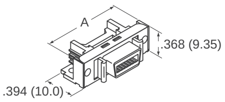

- Glass Reinforced Polyester (PCT) • UL 94V-0 • Wiping Area: 20µ minimum Gold • Interface latch

Fig. 8 — Boardmount Compliant Pin Vertical

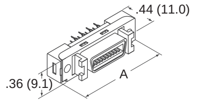

- Glass Reinforced Polyester (PBT) • UL 94V-0 • Wiping Area: 30µ minimum Gold • Tails: Gold Flash

Fig. 9 — Plastic Shielded Junction Shell for Round Cable

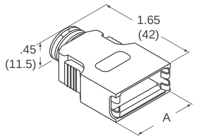

- Outer Shell Material: ABS • UL 94V-0 • Inner Shell Material: Steel, .020" • Plating: Nickel

Fig. 10 — Plastic Solder Junction Shell, Non-Shielded

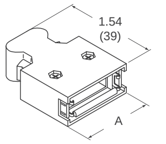

- Glass Reinforced Polyester (PBT) • UL 94V-0
- Quick release metal latching mechanism

Fig. 11 — Metal Junction Shell for Round Cable

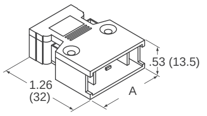

- Material: Aluminum, .050" • Plating: Nickel

Fig. 12 — 60° Metal Junction Shell for Round Cable

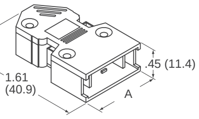

- Material: Aluminum, .050" • Plating: Nickel

Fig. 13 — I/O Mounting Hardware

3M #	A	B	C	D
3341-10	.35(8.9)	M2.5	.30(7.6)	.230 DP
3341-16	.35(8.9)	#4-40	.30(7.6)	.230 DP
3341-17	.35(8.9)	#4-40	.30(7.6)	.230 DP
3341-13	.35(8.9)	M2.5	.30(7.6)	.230 DP
3341-25	.41(10.5)	M2.5	.12(3.0)	.120 DP
3341-31	.40(10.2)	M2.5	.15(3.8)	.100 DP
3341-32	.50(12.5)	M2.5	.30(7.6)	.203 DP

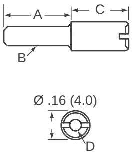

- Material: ST. Steel
- Plating: Passivated

Fig. 14 — Board Lock and Panel Mounting Screws

3M #	A
3344-26	M2.6 x 8mm
3344-3	M2.5 x 6mm
3344-38	M2.5 x 8mm
3344-4	#4-40 x 1/4
3344-44	#4-40 x 3/8

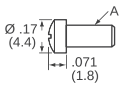

- Material: Steel • Plating: Zinc

Fig.	Color	No. of Positions	Dimension A Inches (mm)	Digi-Key Part No.	Price Each 1	10	100	250	3M Part No.
Plugs — Shielded, .050"									
1	Black	14	.72 (18.2)	MPB14A-ND†	4.87	4.10	3.70	3.51	10114-6000EC
		20	.87 (22.0)	MPB20A-ND†	5.03	4.24	3.83	3.63	10120-6000EC
		26	1.02 (25.8)	MPB26A-ND†	5.20	4.38	3.95	3.75	10126-6000EC
		36	1.27 (32.2)	MPB36A-ND†	6.24	5.25	4.74	4.50	10136-6000EC
		40	1.37 (34.7)	MPB40A-ND†	6.45	5.43	4.90	4.65	10140-6000EC
		50	1.62 (41.1)	MPB50A-ND†	6.88	5.80	5.23	4.97	10150-6000EC
		68	2.07 (52.5)	MPB68A-ND†	7.07	5.95	5.38	5.10	10168-6000EC
		80	2.37 (60.1)	MPB80A-ND†	8.59	7.23	6.53	6.20	10180-6000EC
		100	2.87 (72.8)	MPB100A-ND†	10.21	8.60	7.76	7.37	101A0-6000EC
2	Black	14	.72 (18.2)	3M1701-ND	6.16	5.18	4.68	4.44	10114-3000VE
		14	.72 (18.2)	3M1767-ND†	6.16	5.18	4.68	4.44	10114-3000PE
		20	.87 (22.0)	3M1702-ND	6.70	5.64	5.09	4.83	10120-3000VE
		20	.87 (22.0)	3M1768-ND†	6.70	5.64	5.09	4.83	10120-3000PE
		26	1.02 (25.8)	3M1703-ND	7.49	6.30	5.69	5.40	10126-3000VE
		26	1.02 (25.8)	3M1769-ND†	7.49	6.30	5.69	5.40	10126-3000PE
		36	1.27 (32.2)	3M1704-ND	7.95	6.69	6.04	5.73	10136-3000VE
		36	1.27 (32.2)	3M1770-ND†	7.95	6.69	6.04	5.73	10136-3000PE
		40	1.37 (34.7)	3M1705-ND	8.32	7.00	6.32	6.00	10140-3000VE
		40	1.37 (34.7)	3M1771-ND†	8.32	7.00	6.32	6.00	10140-3000PE
		50	1.62 (41.1)	3M1706-ND	8.99	7.56	6.83	6.48	10150-3000VE
		50	1.62 (41.1)	3M1772-ND†	8.99	7.56	6.83	6.48	10150-3000PE
3	Black	20	1.31 (33.3)	3M1707-ND	13.64	11.48	10.37	9.84	10120-52B2VC
		26	1.46 (37.2)	3M1708-ND	14.14	11.90	10.75	10.20	10126-52B2VC
		36	1.71 (43.5)	3M1709-ND	14.66	12.34	11.14	10.58	10136-52B2VC
		50	2.06 (52.4)	3M1710-ND	15.31	12.88	11.63	11.04	10150-52B2VC
Receptacles — Shielded, .050"									
4	Black	20	1.31 (33.4)	MRB20A-ND†	8.88	7.48	6.75	6.41	10220-0210EC
		26	1.46 (37.2)	MRB26A-ND†	9.61	8.09	7.30	6.93	10226-0210EC
		36	1.71 (43.5)	MRB36A-ND†	10.77	9.07	8.19	7.77	10236-0210EC
		40	1.81 (46.1)	MRB40A-ND†	11.32	9.52	8.60	8.16	10240-0210EC
		50	2.06 (52.4)	MRB50A-ND†	12.52	10.54	9.52	9.03	10250-0210EC
		68	2.51 (63.8)	MRB68A-ND†	14.62	12.31	11.11	10.55	10268-0210EC
5	Beige	14	1.16 (29.6)	3M1711-ND	4.20	3.54	3.20	3.03	10214-55G3VC
		20	1.31 (33.4)	3M1712-ND	3.72	3.14	2.83	2.69	10220-55G3VC
		20	1.31 (33.4)	3M1713-ND	4.37	3.68	3.32	3.15	10220-55H3VC
		26	1.46 (37.2)	3M1714-ND	4.04	3.40	3.07	2.91	10226-55G3VC
		36	1.71 (43.5)	3M1715-ND	4.43	3.73	3.37	3.20	10236-55G3VC
		36	1.71 (43.5)	3M1716-ND	4.43	3.73	3.37	3.20	10236-55H3VC
		40	1.81 (46.1)	3M1717-ND	5.49	4.62	4.18	3.96	10240-55G3VC
		50	2.06 (52.4)	3M1766-ND†	5.20	4.38	3.95	3.75	10250-55H3PC
		68	2.51 (63.9)	3M1719-ND	6.76	5.69	5.14	4.88	10268-55H3VC
6	Black	14	1.16 (29.5)	3M1720-ND	4.37	3.68	3.32	3.15	10214-6212VC
		20	1.31 (33.4)	3M1721-ND	4.58	3.85	3.48	3.30	10220-6212VC
		26	1.46 (37.2)	3M1722-ND	4.74	3.99	3.61	3.42	10226-6212VC
		36	1.71 (43.5)	3M1723-ND	4.89	4.12	3.72	3.53	10236-6212VC
		40	1.81 (46.1)	3M1724-ND	5.10	4.29	3.88	3.68	10240-6212VC
		50	2.06 (52.4)	3M1725-ND	5.41	4.55	4.11	3.90	10250-6212VC
		68	2.51 (63.8)	3M1726-ND	6.32	5.32	4.81	4.56	10268-6212VC
		80	2.81 (71.5)	3M1727-ND	8.53	7.18	6.48	6.15	10280-6212VC
		100	3.31 (84.2)	3M1728-ND	9.11	7.67	6.93	6.57	102A0-6212VC
7	Beige	14	1.16 (29.5)	3M1729-ND	7.28	6.13	5.53	5.25	10214-1210VE
		20	1.32 (33.4)	3M1730-ND	7.45	6.27	5.66	5.37	10220-1210VE
		26	1.50 (38.2)	3M1731-ND	7.74	6.51	5.88	5.58	10226-1210VE
		40	1.85 (47.1)	3M1732-ND	8.94	7.53	6.80	6.45	10240-1210VE
		50	2.06 (52.4)	3M1733-ND	9.36	7.88	7.11	6.75	10250-1210VE
8	Black	14	1.16 (29.5)	3M1734-ND†	8.69	7.32	6.61	6.27	10214-R21TS
		36	1.71 (43.5)	3M1735-ND†	9.19	7.74	6.99	6.63	10236-R21TS
		40	1.81 (46.1)	3M1736-ND†	9.36	7.88	7.11	6.75	10240-R21TS
		68	2.51 (63.8)	3M1737-ND†	10.90	9.17	8.28	7.86	10268-R21TS
		80	2.81 (71.5)	3M1738-ND†	14.85	12.50	11.29	10.71	10280-R21TS
Connector Junction Shells — .050"									
9	Beige	14	1.02 (25.9)	3M1739-ND	4.68	3.94	3.56	3.38	10314-3210-000
		20	1.17 (29.7)	3M1740-ND	4.06	3.42	3.09	2.93	10320-3210-000
		26	1.32 (33.5)	3M1741-ND	4.14	3.49	3.15	2.99	10326-3210-000
		36	1.57 (39.8)	3M1742-ND	4.22	3.56	3.21	3.05	10336-3210-000
		40	1.67 (42.4)	3M1765-ND	4.78	4.03	3.64	3.45	10340-3210-000
		50	1.92 (48.7)	3M1743-ND	4.35	3.66	3.31	3.14	10350-3210-000
		68	2.37 (60.1)	3M1744-ND	4.45	3.75	3.39	3.21	10368-3210-000
10	Black	14	1.16 (29.5)	3M1745-ND†	6.99	5.88	5.31	5.04	10314-52F0-008
		20	1.31 (33.3)	3M1746-ND†	7.20	6.06	5.47	5.19	10320-52F0-008
		26	1.46 (37.2)	3M1747-ND†	7.40	6.23	5.63	5.34	10326-52F0-008
		36	1.71 (43.5)	3M1748-ND†	7.49	6.30	5.69	5.40	10336-52F0-008
		50	2.06 (52.4)	3M1749-ND†	7.70	6.48	5.85	5.55	10350-52F0-008
11	—	14	1.01 (25.8)	3M1750-ND†	11.40	9.59	8.66	8.22	10314-A200-00
		20	1.17 (29.7)	3M1751-ND†	10.15	8.54	7.72	7.32	10320-A200-00
		26	1.32 (33.5)	3M1752-ND†	10.92	9.19	8.30	7.88	10326-A200-00
		36	1.57 (39.8)	3M1753-ND†	11.54	9.72	8.77	8.33	10336-A200-00
		40	1.67 (42.4)	3M1754-ND†	12.38	10.42	9.41	8.93	10340-A200-00
		50	1.92 (48.7)	3M1755-ND†	12.90	10.85	9.80	9.30	10350-A200-00
		68	2.37 (60.1)	3M1756-ND†	13.52	11.38	10.27	9.75	10368-A200-00
		100	3.16 (80.2)	3M1757-ND†	15.08	12.69	11.46	10.88	103A0-A200-00
12	—	14	1.02 (25.8)	3M1758-ND†	9.94	8.37	7.56	7.17	10314-A500-00
		26	1.32 (33.5)	3M1759-ND†	11.59	9.75	8.81	8.36	10326-A500-00
		36	1.57 (39.8)	3M1760-ND†	11.79	9.93	8.96	8.51	10336-A500-00
		40	1.67 (42.4)	3M1761-ND†	14.04	11.82	10.67	10.13	10340-A500-00
		50	1.92 (48.7)	3M1762-ND†	13.10	11.03	9.96	9.45	10350-A500-00
		68	2.37 (60.1)	3M1763-ND†	14.00	11.78	10.64	10.10	10368-A500-00

Fig.	Description	Digi-Key Part No.	Pricing 1	100	500	1,000	3M Part No.
Jack Sockets, .050" — RoHS Compliant							
13	M2.5/M2.5	MDVS10-ND	2.08	158.00	715.00	1300.00	3341-10
	#4-40/#4-40	MDVS16-ND	2.27	172.22	779.35	1417.00	3341-16
	#4-40/#4-40	MDVS17-ND	1.50	113.76	514.80	936.00	3341-17
	M2.5/#4-40	MDVS13-ND	1.50	113.76	514.80	936.00	3341-13BULK
	M2.5/M2	MDVS25-ND	2.85	216.46	979.55	1781.00	3341-25
	M2.5/#4-40	MDVS31-ND	1.66	126.40	572.00	1040.00	3341-31BULK
	M2.5/#4-40	MDVS32-ND	1.93	146.94	664.95	1209.00	3341-32BULK

Fig.	Description	Digi-Key Part No.	Pricing 10	100	500	1,000	3M Part No.
Screws (Steel with Zinc Plating), .050" — RoHS Compliant							
14	Board Lock Screw, M2.6 x 8mm	MDVT26-ND*	1.50	10.50	43.75	80.00	3344-26
	Board Lock Screw, M2.5 x 6.0mm	MDVT03-ND*	6.00	42.00	175.00	320.00	3344-3
	Panel Mount Screw, M2.5 x 8.0mm	MDVT38-ND*	3.30	23.10	96.25	176.00	3344-38
	Board Lock Screw, #4-40 x 1/4	MDVT04-ND*	2.40	16.80	70.00	128.00	3344-4
	Panel Mount Screw, #4-40 x 3/8	MDVT44-ND*	1.50	10.50	43.75	80.00	3344-44

* Quantity of one equals one pair. † ***RoHS Compliant***

3M .025” Gray Flat Cable – 3754 Series

- PVC Insulation
- 30AWG Stranded on .025” spacing
- Conductors: 30AWG 7 x 38 (7 x 0.102) tinned stranded copper
- Voltage Rating: 30V
- Temperature Rating: -20°C ~ 105°C
- Flammability Rating: *USA:* VW-1 *Canada:* FT1

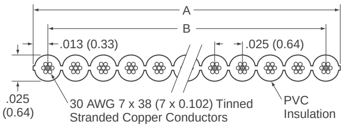

No. of Contacts	Dimensions Inches (mm) A	Dimensions Inches (mm) B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 5 Ft.*	10 Ft.*	25 Ft.*	50 Ft.*	100 Ft.*	300 Ft.*
20	0.500 (12.70)	0.475 (12.07)	MB20G-X-ND	3.26	6.05	13.49	23.25	41.85	111.60
26	0.650 (16.51)	0.625 (15.88)	MB26G-X-ND	4.23	7.86	17.53	30.23	54.41	145.08
30	0.750 (19.05)	0.725 (18.42)	MB30G-X-ND	4.88	9.07	20.23	34.88	62.78	167.40
40	1.000 (25.40)	0.975 (24.77)	MB40G-X-ND	6.51	12.09	26.97	46.50	83.70	223.20
50	1.250 (31.75)	1.225 (31.12)	MB50G-X-ND	4.64	8.61	19.21	33.13	59.63	159.00
60	1.500 (38.10)	1.475 (37.47)	MB60G-X-ND	9.77	18.14	40.46	69.75	125.55	334.80
68	1.700 (43.18)	1.675 (42.55)	MB68G-X-ND	11.07	20.55	45.85	79.05	142.29	379.44
80	2.000 (50.80)	1.975 (50.17)	MB80G-X-ND	13.02	24.18	53.94	93.00	167.40	446.40
100	2.500 (63.50)	2.475 (62.87)	MB100G-X-ND	16.28	30.23	67.43	116.25	209.25	558.00

* Cable available on xxx ft. roll

Latch/Eject Headers .100” x .100”

(2.54mm x 2.54mm)

Four-wall shrouded housing to protect against physical and chemical pin damage.
Order optional ejector latches separately below.

Right Angle Headers

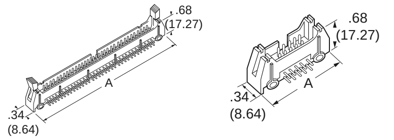

Straight Header

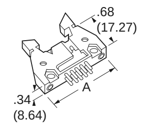

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
Right Angle						
10	1.26 (32.00)	MHR10K-ND	1.16	88.48	400.40	3793-5002
14	1.46 (37.08)	MHR14K-ND	1.60	121.66	550.55	3314-5002
16	1.56 (39.62)	MHR16K-ND	1.85	140.62	636.35	3408-5002
20	1.76 (44.70)	MHR20K-ND	2.29	173.80	786.50	3428-5002
24	1.96 (49.78)	MHR24K-ND	2.75	208.56	943.80	3627-5002
26	2.06 (52.32)	MHR26K-ND	2.97	225.94	1022.45	3429-5002
30	2.26 (57.40)	MHR30K-ND	2.75	208.56	943.80	3440-5002
34	2.46 (62.48)	MHR34K-ND	3.10	235.42	1065.35	3431-5002
40	2.76 (70.10)	MHR40K-ND	3.66	278.08	1258.40	3432-5002
50	3.26 (82.80)	MHR50K-ND	4.58	347.60	1573.00	3433-5002
60	3.76 (95.50)	MHR60K-ND	5.47	415.54	1880.45	3372-5002
Straight						
10	1.26 (32.00)	MHS10K-ND	1.14	86.90	393.25	3793-6002
14	1.46 (37.08)	MHS14K-ND	1.58	120.08	543.40	3314-6002
16	1.56 (39.62)	MHS16K-ND	1.81	137.46	622.05	3408-6002
20	1.76 (44.70)	MHS20K-ND	2.25	170.64	772.20	3428-6002
24	1.96 (49.78)	MHS24K-ND	2.70	205.40	929.50	3627-6002
26	2.06 (52.32)	MHS26K-ND	2.91	221.20	1001.00	3429-6002
30	2.26 (57.40)	MHS30K-ND	2.70	205.40	929.50	3440-6002
34	2.46 (62.48)	MHS34K-ND	3.04	230.68	1043.90	3431-6002
40	2.76 (70.10)	MHS40K-ND	3.58	271.76	1229.80	3432-6002
50	3.26 (82.80)	MHS50K-ND	4.47	339.70	1537.25	3433-6002
60	3.76 (95.50)	MHS60K-ND	5.39	409.22	1851.85	3372-6002
Optional Ejector Latches for Connectors						
Short........................		MLKS01-ND*	.21/2	7.90	35.75	3505-2
Long.........................		MLKS02-ND†	.21/2	7.90	35.75	3505-3

* Use without strain relief † Use with strain relief

Low Profile Headers (Protected Headers)

Physical Specifications:
Insulation: • Material: Glass filled Polyester (PBT) • Flammability: UL94V-0 • Color: Gray • Marking: 3M logo and Orientation Triangle **Contact:** • Material: Phosphor Bronze (C510) **Plating:** • Underplate: 100µ” Nickel-QQ-N-290, Class 2 • Wiping Area: Gold-MIL-G-45204, Type II, Grade C • Solder Tails: 200µ” 60/40 Tin Lead-MIL-P-81728 • Wrap Tails: Gold Flash
Electrical Specifications: • Current Rating: 2A • Insulation Resistance: >1x10⁹Ω @ 500Vdc • Withstanding voltage: 1000Vrms at Sea Level
Environmental Specification: • Temperature Rating: -55°C ~ 105°C • UL File No.: E68080 • CSA File No.: LR 40971

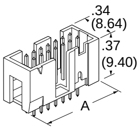

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
Straight Solder Tail						
10	0.79 (20.07)	MHB10K-ND	1.37	104.28	471.90	2510-6002UB
14	0.99 (22.15)	MHB14K-ND	1.41	107.44	486.20	2514-6002UB
16	1.09 (27.69)	MHB16K-ND	1.58	120.08	543.40	2516-6002UB
20	1.29 (32.77)	MHB20K-ND	1.64	124.82	564.85	2520-6002UB
24	1.49 (37.85)	MHB24K-ND	1.75	132.72	600.60	2524-6002UB
26	1.59 (40.39)	MHB26K-ND	1.77	134.30	607.75	2526-6002UB
30	1.79 (45.47)	MHB30K-ND	2.04	154.84	700.70	2530-6002UB
34	1.99 (50.55)	MHB34K-ND	2.12	161.16	729.30	2534-6002UB
40	2.29 (58.17)	MHB40K-ND	2.27	172.22	779.35	2540-6002UB
50	2.79 (70.87)	MHB50K-ND	2.81	213.30	965.25	2550-6002UB
60	3.29 (83.57)	MHB60K-ND	3.37	255.96	1158.30	2560-6002UB

No. of Contacts	Dimension A Inches (mm)	Digi-Key Part No.	Pricing 1	100	500	3M Part No.
Straight Solder Tail — RoHS Compliant						
10	0.788 (20.02)	MHC10K-ND	1.37	104.28	471.90	N2510-6002RB
14	0.988 (25.10)	MHC14K-ND	1.41	107.44	486.20	N2514-6002RB
16	1.088 (27.64)	MHC16K-ND	1.58	120.08	543.40	N2516-6002RB
20	1.288 (32.72)	MHC20K-ND	1.64	124.82	564.85	N2520-6002RB
24	1.488 (37.80)	MHC24K-ND	1.75	132.72	600.60	N2524-6002RB
26	1.588 (40.34)	MHC26K-ND	1.77	134.30	607.75	N2526-6002RB
30	1.788 (45.42)	MHC30K-ND	2.04	154.84	700.70	N2530-6002RB
34	1.988 (50.50)	MHC34K-ND	2.12	161.16	729.30	N2534-6002RB
40	2.288 (58.12)	MHC40K-ND	2.27	172.22	779.35	N2540-6002RB
50	2.788 (70.82)	MHC50K-ND	2.81	213.30	965.25	N2550-6002RB
60	3.288 (83.52)	MHC60K-ND	3.37	255.96	1158.30	N2560-6002RB
64	3.488 (88.60)	MHC64K-ND	3.58	271.76	1229.80	N2564-6002RB
Right Angle Solder Tail						
10	0.79 (20.07)	MHD10K-ND	1.52	115.34	521.95	2510-5002UB
14	0.99 (22.15)	MHD14K-ND	1.56	118.50	536.25	2514-5002UB
16	1.09 (27.69)	MHD16K-ND	1.75	132.72	600.60	2516-5002UB
20	1.29 (32.77)	MHD20K-ND	1.83	139.04	629.20	2520-5002UB
24	1.49 (37.85)	MHD24K-ND	1.91	145.36	657.80	2524-5002UB
26	1.59 (40.39)	MHD26K-ND	1.93	146.94	664.95	2526-5002UB
30	1.79 (45.47)	MHD30K-ND	2.62	199.08	900.90	2530-5002UB
34	1.99 (50.55)	MHD34K-ND	2.31	175.38	793.65	2534-5002UB
40	2.29 (58.17)	MHD40K-ND	2.50	189.60	858.00	2540-5002UB
50	2.79 (70.87)	MHD50K-ND	3.08	233.84	1058.20	2550-5002UB
60	3.29 (83.57)	MHD60K-ND	3.70	281.24	1272.70	2560-5002UB
Right Angle Solder Tail — RoHS Compliant						
10	0.788 (20.02)	MHE10K-ND	1.52	115.34	521.95	N2510-5002RB
14	0.988 (25.10)	MHE14K-ND	1.56	118.50	536.25	N2514-5002RB
16	1.088 (27.64)	MHE16K-ND	1.75	132.72	600.60	N2516-5002RB
20	1.288 (32.72)	MHE20K-ND	1.83	139.04	629.20	N2520-5002RB
24	1.488 (37.80)	MHE24K-ND	1.91	145.36	657.80	N2524-5002RB
26	1.588 (40.34)	MHE26K-ND	1.93	146.94	664.95	N2526-5002RB
30	1.788 (45.42)	MHE30K-ND	2.62	199.08	900.90	N2530-5002RB
34	1.988 (50.50)	MHE34K-ND	2.31	175.38	793.65	N2534-5002RB
40	2.288 (58.12)	MHE40K-ND	2.50	189.60	858.00	N2540-5002RB
50	2.788 (70.82)	MHE50K-ND	3.08	233.84	1058.20	N2550-5002RB
60	3.288 (83.52)	MHE60K-ND	3.70	281.24	1272.70	N2560-5002RB
64	3.488 (88.60)	MHE64K-ND	3.95	300.20	1358.50	N2564-5002RB

Round Jacketed/Shielded Flat Cable – 3659 Series

PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1 • Color: Black • Inner Cable: Scotchflex Product No. 3365; 28AWG 7 x 36 Conductors; UL Style: 2651 • Shielding: 0.001” (.03mm) and 90% Optical Coverage Tinned Copper Braid

ELECTRICAL: • Voltage Rating: 150V • Insulation Resistance: > 1 x 10^{10}Ω/10 ft.

ENVIRONMENTAL: • Temperature Rating: -4°F ~ 176°F (-20°C ~ 80°C)

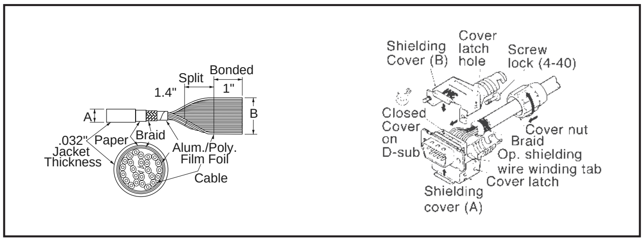

No. of Contacts	Dimensions (Inch) A	Dimensions (Inch) B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*
15	.29	.700	MC15R-X-ND	11.54	21.43	47.81	82.44	131.90
20	.30	.950	MC20R-X-ND	12.43	23.08	51.49	88.78	142.04
24	.35	1.150	MC24R-X-ND	13.32	24.73	55.17	95.11	152.18
25	.35	1.200	MC25R-X-ND	13.73	25.50	56.89	98.09	156.94
26	.35	1.250	MC26R-X-ND	14.20	26.38	58.84	101.45	162.32
34	.39	1.650	MC34R-X-ND	15.98	29.68	66.20	114.14	182.62
36	.41	1.750	MC36R-X-ND	16.42	30.50	68.04	117.31	187.70
37	.41	1.800	MC37R-X-ND	16.87	31.32	69.88	120.48	192.76
40	.41	1.950	MC40R-X-ND	17.31	32.15	71.72	123.65	197.84
50	.50	2.450	MC50R-X-ND	19.97	37.09	82.74	142.66	228.26
60	.53	2.950	MC60R-X-ND	22.39	41.58	92.76	159.94	255.90
64	.54	3.150	MC64R-X-ND	23.53	43.69	97.46	168.04	268.86

* Cable available on xxx ft. roll

No. of Contacts	Digi-Key Part No.	Pricing 1	100	500	1,000	3M Part No.
D-Sub Backshells						
9	MDBS09-ND	3.93	298.62	1351.35	2457.00	3357-9209
15	MDBS15-ND	4.35	330.22	1494.35	2717.00	3357-9215
25	MDBS25-ND	4.97	377.62	1708.85	3107.00	3357-9225
37	MDBS37-ND	7.26	551.42	2495.35	4537.00	3357-9237
50	MDBS50-ND	11.40	865.84	3918.20	7124.00	3357-9250
Thumbscrew Kit (2 Thumbscrews and 2 Retainers)						
Kit	MDTS07-ND	4.18	317.58	1437.15	2613.00	3341-7

Gray Cable Clamps with Adhesive

3484 Series: Cable clamps organize cable routing by clamping and retaining up to six layers of flat cable.

3484-1000-ND	Cable Clamps with Adhesive...	**$12.25/100**

3M Gray Flat Cable – 3365 Series

PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1 • Marking: Red Edge • Conductors: 28 AWG 7 x 36 Tinned Stranded Copper **ELECTRICAL:** • Voltage Rating: 300V • Insulation Resistance: >1 x $10^{10}\Omega$/10 ft. **ENVIRONMENTAL:** • Temperature Rating: -4°F ~ 221°F (-20°C ~ 105°C)

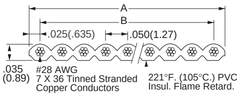

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*	300 ft.*
10	.500 (12.70)	.450 (11.43)	MC10G-X-ND	1.63	3.02	6.74	11.63	20.93	55.80
14	.700 (17.78)	.650 (16.51)	MC14G-X-ND	2.28	4.23	9.43	16.26	29.27	78.04
16	.800 (20.32)	.750 (19.05)	MC16G-X-ND	2.60	4.83	10.78	18.58	33.44	89.18
20	1.000 (25.40)	.950 (24.13)	MC20G-X-ND	3.25	6.04	13.47	23.23	41.81	111.50
24	1.200 (30.48)	1.150 (29.21)	MC24G-X-ND	3.90	7.25	16.17	27.87	50.17	133.78
26	1.300 (33.02)	1.250 (31.75)	MC26G-X-ND	4.23	7.85	17.51	30.19	54.34	144.92
34	1.700 (43.18)	1.650 (41.91)	MC34G-X-ND	5.53	10.27	22.90	39.49	71.08	189.54
37	1.850 (46.99)	1.800 (45.72)	MC37G-X-ND	6.02	11.17	24.93	42.98	77.36	206.28
40	2.000 (50.80)	1.950 (49.53)	MC40G-X-ND	6.50	12.08	26.95	46.46	83.63	223.00
50	2.500 (63.50)	2.450 (62.23)	MC50G-X-ND	8.13	15.10	33.68	58.06	104.51	278.70
60	3.000 (76.20)	2.950 (74.93)	MC60G-X-ND	9.76	18.12	40.41	69.68	125.42	334.46
64	3.200 (81.28)	3.150 (80.01)	MC64G-X-ND	10.40	19.32	43.11	74.32	133.78	356.74

* Cable available on xxx ft. roll

Color Coded Flat Cable – 3302 Series

PHYSICAL: • Insulation Material: Polyvinyl Chloride (PVC) • Flammability Rating: UL VW-1 • Color: 10 Color Repeat, Clear Carrier • Conductors: 28 AWG 7 x 36 Tinned Stranded Copper

ELECTRICAL: • Voltage Rating: 300V • Insulation Resistance: > 1 x $10^{9}\Omega$/10 ft.

ENVIRONMENTAL: • Temperature Rating: -4°F ~ 176°F (-20°C ~ 80°C)

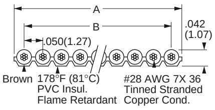

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*	300 ft.*
10	.500 (12.70)	.450 (11.43)	MC10M-X-ND	2.89	5.36	11.96	20.63	37.13	99.00
14	.700 (17.78)	.650 (16.51)	MC14M-X-ND	4.04	7.51	16.75	28.88	51.98	138.60
16	.800 (20.32)	.750 (19.05)	MC16M-X-ND	4.62	8.58	19.14	33.00	59.40	158.40
20	1.000 (25.40)	.950 (24.13)	MC20M-X-ND	5.78	10.73	23.93	41.25	74.25	198.00
24	1.200 (30.48)	1.150 (29.21)	MC24M-X-ND	6.93	12.87	28.71	49.50	89.10	237.60
26	1.300 (33.02)	1.250 (31.75)	MC26M-X-ND	7.51	13.94	31.10	53.63	96.53	257.40
34	1.700 (43.18)	1.650 (41.91)	MC34M-X-ND	9.82	18.23	40.67	70.13	126.23	336.60
37	1.850 (46.99)	1.800 (45.72)	MC37M-X-ND	10.68	19.84	44.26	76.31	137.36	366.30
40	2.000 (50.80)	1.950 (49.53)	MC40M-X-ND	11.55	21.45	47.85	82.50	148.50	396.00
50	2.500 (63.50)	2.450 (62.23)	MC50M-X-ND	14.44	26.81	59.81	103.13	185.63	495.00
60	3.000 (76.20)	2.950 (74.93)	MC60M-X-ND	17.33	32.18	71.78	123.75	222.75	594.00
64	3.200 (81.28)	3.150 (80.01)	MC64M-X-ND	18.48	34.32	76.56	132.00	237.60	633.60

* Cable available on xxx ft. roll

Twisted Pair Flat Cable – 1700 Series

PHYSICAL:
- Insulation Material: Polyvinyl Chloride (PVC)
- Flammability Rating: UL VW-1.

ELECTRICAL:
- Voltage Rating: 300V
- Insulation Resistance: >1 x $10^{9}\Omega$/10 ft.

ENVIRONMENTAL:
- Temperature Rating: -4°F ~ 176°F (-20°C ~ 80°C)

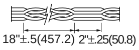

Standard product has alt. 18" (45.72cm) twisted sections and 2" (5.08cm) flat sections.

Section Through Twist

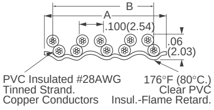

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X in Digi-Key Part No. Represents No. of Feet Pricing 5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*†
10	.50 (12.70)	.450 (11.43)	MC10F-X-ND	3.08	5.72	12.76	22.00	35.20
14	.70 (17.78)	.650 (16.51)	MC14F-X-ND	4.31	8.01	17.86	30.80	49.28
16	.80 (20.32)	.750 (19.05)	MC16F-X-ND	4.93	9.15	20.42	35.20	56.32
20	1.00 (25.40)	.950 (24.13)	MC20F-X-ND	6.16	11.44	25.52	44.00	70.40
26	1.30 (33.02)	1.250 (31.75)	MC26F-X-ND	8.01	14.87	33.18	57.20	91.52
34	1.70 (43.18)	1.650 (41.91)	MC34F-X-ND	10.47	19.45	43.38	74.80	119.68
36	1.80 (45.72)	1.750 (44.45)	MC36F-X-ND	11.09	20.59	45.94	79.20	126.72
40	2.00 (50.80)	1.950 (49.53)	MC40F-X-ND	12.32	22.88	51.04	88.00	140.80
50	2.50 (63.50)	2.450 (62.23)	MC50F-X-ND	15.40	28.60	63.80	110.00	176.00
60	3.00 (76.20)	2.950 (74.93)	MC60F-X-ND	18.48	34.32	76.56	132.00	211.20
64	3.20 (81.28)	3.150 (80.01)	MC64F-X-ND	19.71	36.61	81.66	140.80	225.28

* Cable available on xxx ft. roll   † If ordered in full reel size, may contain a splice. Comes in unreel box.

High Flex Cable – 3319 Series

19 strands of high strength copper alloy provide the longest flex life available for dynamic applications. **PHYSICAL:** • Insulation Material: Polyvinyl Chloride (PVC) • Color: Black • Marking, Standard: None • CSA Option: UL AWM 2651 105C 300V VW1, 3M NU, CSA AWM 1A 105C 300V FT1 • Conductors: 28 AWG 19 x 40 (19 x 0.079) Silver Plated Stranded Copper Alloy (89% conductivity) **ELECTRICAL:** • Voltage Rating: 300V • Insulation Resistance: >1 x $10^{10}\Omega$/10 ft. (3m) **ENVIRONMENTAL:** • Temperature Rating: -4°F ~ 221°F (-20°C ~ 105°C) • Flammability Rating: UL: VW-1, CSA: FT1

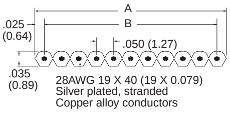

No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Note: X in Digi-Key Part No.Represents No. of Feet Pricing 5 ft.*	10 ft.*	25 ft.*	50 ft.*	100 ft.*
10	.50 (12.70)	.45 (11.43)	MC10H-X-ND	18.99	35.26	78.66	135.63	217.00
14	.70 (17.78)	.65 (16.51)	MC14H-X-ND	26.58	49.37	110.13	189.88	303.80
16	.80 (20.32)	.75 (19.05)	MC16H-X-ND	30.38	56.42	125.86	217.00	347.20
20	1.00 (25.40)	.95 (24.13)	MC20H-X-ND	37.98	70.53	157.33	271.25	434.00
24	1.20 (30.48)	1.15 (29.21)	MC24H-X-ND	45.57	84.63	188.79	325.50	520.80
26	1.30 (33.02)	1.25 (31.75)	MC26H-X-ND	49.37	91.68	204.52	352.63	564.20
34	1.70 (43.18)	1.65 (41.91)	MC34H-X-ND	64.56	119.89	267.45	461.13	737.80
37	1.85 (46.99)	1.80 (45.72)	MC37H-X-ND	70.25	130.47	291.05	501.81	802.90
40	2.00 (50.80)	1.95 (49.53)	MC40H-X-ND	75.95	141.05	314.65	542.50	868.00
50	2.50 (63.50)	2.45 (62.23)	MC50H-X-ND	94.94	176.31	393.31	678.13	1085.00
60	3.00 (76.20)	2.95 (74.93)	MC60H-X-ND	113.93	211.58	471.98	813.75	1302.00
64	3.20 (81.28)	3.15 (80.01)	MC64H-X-ND	121.52	225.67	503.43	867.98	1388.76

* Cable available on xxx ft. roll

NEW! Picoflex™ PF-50

PHYSICAL: • Pitch/Center Spacing: .050 Inch (1.27mm) • Cable Pitch: .050 Inch (1.27mm) • Wire Size (AWG): 26, 28 • Wire Type: Ribbon Cable • Termination Method: Insulation Displacement (IDT) • Housing Material: Receptacles: Polyester; Headers: Nylon Glass-Filled • Flammability Rating: UL 94V-0 • Contact: Receptacle: Phosphor Bronze (CuSn) Alloy; Header: Brass • Minimum Durability (mating cycles): 30 cycles-Tin (Sn), 100 cycles-Gold (Au) • UL File: E29179 **ELECTRICAL:** • Max. Current: 1.2A • Max. Voltage Rating: 250V **ENVIRONMENTAL:** • Temperature Range: -40°C ~ 105°C

Fig. 1

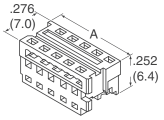

Fig. 2

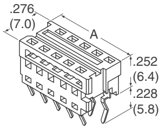

Fig. 3

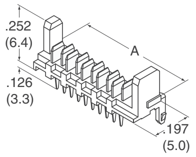

Fig. 4

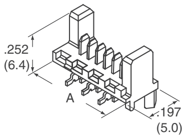

Fig.	Contact Finish	No. of Positions	Dimension A Inches (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
				Receptacles				
1	Tin	4	.299 (7.59)	WM19220-ND	.60	.56	.45	90327-0304
		6	.399 (10.13)	WM19221-ND	.84	.78	.62	90327-0306
		8	.499 (12.67)	WM19222-ND	1.00	.92	.74	90327-0308
		10	.599 (15.21)	WM19223-ND	1.20	1.11	.89	90327-0310
		12	.699 (17.75)	WM19224-ND	1.35	1.24	1.00	90327-0312
		14	.799 (20.29)	WM19225-ND	1.47	1.35	1.08	90327-0314
		16	.899 (22.83)	WM19226-ND	1.60	1.47	1.18	90327-0316
		18	.999 (25.37)	WM19227-ND	1.71	1.57	1.26	90327-0318
		20	1.099 (27.91)	WM19228-ND	1.90	1.75	1.40	90327-0320
		26	1.399 (35.53)	WM19229-ND	2.34	2.15	1.72	90327-0326
	Gold	4	.299 (7.59)	WM19230-ND	.78	.72	.58	90327-3304
		6	.399 (10.13)	WM19231-ND	1.09	1.01	.81	90327-3306
		8	.499 (12.67)	WM19232-ND	1.30	1.20	.96	90327-3308
		10	.599 (15.21)	WM19233-ND	1.56	1.44	1.15	90327-3310
		12	.699 (17.75)	WM19234-ND	1.76	1.62	1.29	90327-3312
		14	.799 (20.29)	WM19235-ND	1.91	1.76	1.41	90327-3314
		16	.899 (22.83)	WM19236-ND	2.08	1.91	1.53	90327-3316
		18	.999 (25.37)	WM19237-ND	2.23	2.05	1.64	90327-3318
		20	1.099 (27.91)	WM19238-ND	2.47	2.27	1.82	90327-3320
		26	1.399 (35.53)	WM19239-ND	3.05	2.80	2.24	90327-3326
2	Tin	4	.299 (7.59)	WM19240-ND	.60	.56	.45	90584-1304
		6	.399 (10.13)	WM19241-ND	.84	.78	.62	90584-1306
		8	.499 (12.67)	WM19242-ND	1.00	.92	.74	90584-1308
		10	.599 (15.21)	WM19243-ND	1.20	1.11	.89	90584-1310
		12	.699 (17.75)	WM19244-ND	1.35	1.24	1.00	90584-1312
		14	.799 (20.29)	WM19245-ND	1.47	1.35	1.08	90584-1314
		16	.899 (22.83)	WM19246-ND	1.60	1.47	1.18	90584-1316
		18	.999 (25.37)	WM19247-ND	1.71	1.57	1.26	90584-1318
		20	1.099 (27.91)	WM19248-ND	1.90	1.75	1.40	90584-1320
		26	1.399 (35.53)	WM19249-ND	2.34	2.15	1.72	90584-1326
				Headers — Through Hole				
3	Tin	4	.367 (9.32)	WM19210-ND	.67	.61	.49	90325-9004
		6	.467 (11.86)	WM19211-ND	.72	.67	.53	90325-9006
		8	.567 (14.40)	WM19212-ND	.85	.78	.63	90325-9008
		10	.667 (16.94)	WM19213-ND	.98	.90	.72	90325-9010
		12	.767 (19.48)	WM19214-ND	1.08	1.00	.80	90325-9012
		14	.867 (22.02)	WM19215-ND	1.16	1.07	.86	90325-9014
		16	.967 (24.56)	WM19216-ND	1.49	1.37	1.10	90325-9016
		18	1.067 (27.10)	WM19217-ND	2.34	2.15	1.72	90325-9018
		20	1.167 (29.64)	WM19218-ND	1.80	1.65	1.32	90325-9020
		26	1.467 (37.26)	WM19219-ND	2.58	2.37	1.90	90325-9026
	Gold	4	.367 (9.32)	WM19200-ND	1.16	1.07	.85	90325-7004
		6	.467 (11.86)	WM19201-ND	1.59	1.46	1.17	90325-7006
		8	.567 (14.40)	WM19202-ND	1.98	1.82	1.45	90325-7008
		10	.667 (16.94)	WM19203-ND	2.45	2.25	1.80	90325-7010
		12	.767 (19.48)	WM19204-ND	2.95	2.71	2.17	90325-7012
		14	.867 (22.02)	WM19205-ND	3.29	3.02	2.42	90325-7014
		16	.967 (24.56)	WM19206-ND	3.68	3.38	2.70	90325-7016
		18	1.067 (27.10)	WM19207-ND	4.13	3.79	3.04	90325-7018
		20	1.167 (29.64)	WM19208-ND	3.40	3.12	2.50	90325-7020
		26	1.467 (37.26)	WM19209-ND	5.50	5.04	4.04	90325-7026
				Headers — SMD				
4	Tin	4	.349 (8.86)	WM19250-ND	.86	.79	.63	90814-0004
		6	.449 (11.40)	WM19251-ND	1.13	1.04	.83	90814-0006
		8	.549 (13.94)	WM19252-ND	1.27	1.17	.93	90814-0008
		10	.649 (16.48)	WM19253-ND	1.48	1.36	1.09	90814-0010
		12	.749 (19.02)	WM19254-ND	1.71	1.57	1.26	90814-0012
		14	.849 (21.56)	WM19255-ND	2.21	2.03	1.62	90814-0014
		16	.949 (24.10)	WM19256-ND	2.40	2.21	1.77	90814-0016
		18	1.049 (26.64)	WM19257-ND	2.59	2.38	1.91	90814-0018
		20	1.149 (29.18)	WM19258-ND	2.83	2.60	2.08	90814-0020
		26	1.449 (36.80)	WM19259-ND	3.58	3.28	2.63	90814-0026
	Gold	4	.349 (8.86)	WM19260-ND	1.00	.92	.74	90814-3004
		6	.449 (11.40)	WM19261-ND	1.17	1.07	.86	90814-3006
		8	.549 (13.94)	WM19262-ND	1.70	1.57	1.25	90814-3008
		10	.649 (16.48)	WM19263-ND	2.21	2.03	1.62	90814-3010
		12	.749 (19.02)	WM19264-ND	2.45	2.25	1.80	90814-3012
		14	.849 (21.56)	WM19265-ND	2.64	2.43	1.94	90814-3014
		16	.949 (24.10)	WM19266-ND	2.98	2.73	2.19	90814-3016
		18	1.049 (26.64)	WM19267-ND	3.31	3.03	2.43	90814-3018
		20	1.149 (29.18)	WM19268-ND	3.63	3.33	2.67	90814-3020
		26	1.449 (36.80)	WM19269-ND	4.61	4.23	3.38	90814-3026
				Tool				
Hand Tool for Picoflex				WM19270-ND	952.94/1			69008-1090

ASSMANN Flat Cable

Features: • Operating Voltage: 300Vrms • Test Voltage: 2000Vrms • Current Capacity: 1A • Insulation Resistance: >20 G Ω/m • Capacity: 45pF /m • Conductor Resistance: >230Ω /km • Impedance: 104Ω • Temperature Range: -30°C ~ 105°C • Color: Gray, red coded • Multi-Color Sequence: Brown, red, orange, yellow, green, blue, violet, gray, white, black

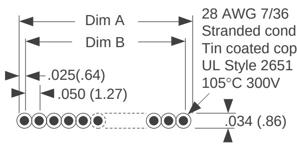

Cond-uctors	Dimensions - Inch (mm) A	B
9	.450 (11.43)	.400 (10.16)
10	.500 (12.70)	.450 (11.43)
14	.700 (17.78)	.650 (16.51)
15	.750 (19.05)	.700 (17.78)
16	.800 (20.32)	.750 (19.05)
20	1.000 (25.40)	.950 (24.13)
24	1.200 (30.48)	1.150 (29.21)
25	1.250 (31.75)	1.200 (30.48)

Cond-uctors	Dimensions - Inch (mm) A	B
26	1.300 (33.02)	1.250 (31.75)
30	1.500 (38.10)	1.450 (36.83)
34	1.700 (43.18)	1.650 (41.91)
37	1.850 (46.99)	1.800 (45.72)
40	2.000 (50.80)	1.950 (49.53)
50	2.500 (63.50)	2.450 (62.23)
60	3.000 (76.20)	2.950 (74.93)
64	3.200 (81.28)	3.150 (80.01)

Multi-Color Ribbon Cable*

With Standard 10 Color Repeat Sequence

No. of Con-tacts	Digi-Key Part No.	(Note: "X" in Digi-Key Part No. Represents No. of Feet) Pricing 5	10	25	50	100
9	AE09M-X-ND	2.44	4.35	10.50	20.25	37.50
10	AE10M-X-ND	2.44	4.35	10.50	20.25	37.50
14	AE14M-X-ND	3.42	6.11	14.75	28.44	52.67
15	AE15M-X-ND	3.92	6.99	16.87	32.54	60.25
16	AE16M-X-ND	3.92	6.99	16.87	32.54	60.25
20	AE20M-X-ND	4.89	8.73	21.07	40.64	75.25
24	AE24M-X-ND	6.12	10.92	26.37	50.85	94.17
25	AE25M-X-ND	6.36	11.36	27.42	52.87	97.92
26	AE26M-X-ND	6.36	11.36	27.42	52.87	97.92
30	AE30M-X-ND	7.34	13.10	31.62	60.97	112.92
34	AE34M-X-ND	8.32	14.85	35.84	69.12	128.00
37	AE37M-X-ND	9.79	17.47	42.16	81.32	150.58
40	AE40M-X-ND	9.79	17.47	42.16	81.32	150.58
50	AE50M-X-ND	12.24	21.85	52.73	101.70	188.33
60	AE60M-X-ND	14.68	26.20	63.23	121.95	225.83
64	AE64M-X-ND	15.65	27.94	67.43	130.05	240.83

** Cable available in 300 ft reel. Please call for pricing.*

Gray Ribbon Cable*

With Single Edge Red Strip For Pin One Orientation

No. of Con-tacts	Digi-Key Part No.	(Note: "X" in Digi-Key Part No. Represents No. of Feet) Pricing 5	10	25	50	100
9	AE09G-X-ND	.72	1.29	3.10	5.99	11.08
10	AE10G-X-ND	.72	1.29	3.10	5.99	11.08
14	AE14G-X-ND	1.03	1.84	4.43	8.55	15.83
15	AE15G-X-ND	1.08	1.92	4.64	8.96	16.58
16	AE16G-X-ND	1.08	1.92	4.64	8.96	16.58
20	AE20G-X-ND	1.44	2.56	6.18	11.93	22.08
24	AE24G-X-ND	1.79	3.19	7.70	14.85	27.50
25	AE25G-X-ND	1.90	3.38	8.17	15.75	29.17
26	AE26G-X-ND	1.90	3.38	8.17	15.75	29.17
30	AE30G-X-ND ***NEW!***	2.18	3.89	9.72	18.09	33.50
34	AE34G-X-ND	2.52	4.50	10.85	20.93	38.75
37	AE37G-X-ND	2.90	5.17	12.48	24.08	44.58
40	AE40G-X-ND	2.93	5.22	12.60	24.30	45.00
50	AE50G-X-ND	3.68	6.57	15.87	30.60	56.67
60	AE60G-X-ND	4.44	7.93	19.13	36.90	68.33
64	AE64G-X-ND	4.71	8.41	20.30	39.15	72.50

** Cable available in 300 ft reel. Please call for pricing.*

NEW! FCI Quickie™

.100" x .100" (2.54 mm x 2.54 mm) Socket Connectors

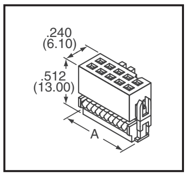

Use .050" (1.27 mm) Pitch Ribbon Cable

Specifications: • Current Rating: 1 Amp Continuous • Temperature Range: - 65°C ~ 105°C • Plastic Material: Glass Filled High Temperature • Thermoplastic: UL94V-0, Color: Gray • Pin Material: Phosphor Bronze

No. of Positions	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	25	FCI Part No.
Center Key without Strain Relief					
10	1.176 (29.87)	609-1746-ND	1.21	17.13	71600-110LF
16	1.776 (45.11)	609-1747-ND	1.72	23.89	71600-116LF
20	2.176 (55.27)	609-1748-ND	1.41	19.52	71600-120LF
26	2.776 (70.51)	609-1749-ND	1.52	20.49	71600-126LF
34	3.576 (90.83)	609-1750-ND	2.55	38.26	71600-134LF
40	4.176 (106.07)	609-1751-ND	2.28	34.19	71600-140LF
50	5.176 (131.47)	609-1752-ND	2.95	45.20	71600-150LF
Center Key with Strain Relief					
10	1.176 (29.87)	609-1739-ND	1.29	17.31	71600-010LF
16	1.776 (45.11)	609-1740-ND	1.60	21.68	71600-016LF
20	2.176 (55.27)	609-1741-ND	1.32	17.75	71600-020LF
26	2.776 (70.51)	609-1742-ND	2.00	29.42	71600-026LF
34	3.576 (90.83)	609-1743-ND	2.35	34.72	71600-034LF
40	4.176 (106.07)	609-1744-ND	1.84	26.27	71600-040LF
50	5.176 (131.47)	609-1745-ND	2.71	40.17	71600-050LF
Crimp Tool					
Hand Press		609-1781-ND	1340.85	—	107484-002

Eject Latch Headers

Specifications: • Contact Plating: 0.030 in. (0.76 mm - 30 min.) Gold • Current Rating: 1 Amp Continuous • Temperature Range: -65°C ~ 125°C • Housing Material: Glass Filled • Thermoplastic: UL94V-0, Color: Gray • Pin Material: Phosphor Bronze • 40N min. Latch Retention Force at First Extraction

Vertical

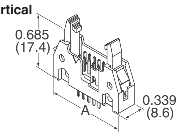

Right Angle

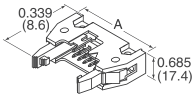

No. of Positions	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	25	FCI Part No.
Vertical Header with Standard Latch					
10	1.760 (44.70)	609-1753-ND	1.50	20.94	71918-110LF
16	2.360 (59.94)	609-1754-ND	1.70	23.57	71918-116LF
20	2.760 (70.10)	609-1755-ND	1.87	26.74	71918-120LF
26	3.360 (85.34)	609-1756-ND	2.10	30.04	71918-126LF
34	4.160 (105.66)	609-1757-ND	2.30	34.47	71918-134LF
40	4.760 (120.90)	609-1758-ND	3.06	47.20	71918-140LF
50	5.760 (146.30)	609-1759-ND	3.15	48.30	71918-150LF
Right Angle Header with Standard Latch					
10	1.760 (44.70)	609-1760-ND	1.50	20.94	71922-110LF
16	2.360 (59.94)	609-1761-ND	2.33	34.92	71922-116LF
20	2.760 (70.10)	609-1762-ND	1.87	26.74	71922-120LF
26	3.360 (85.34)	609-1763-ND	2.10	30.04	71922-126LF
34	4.160 (105.66)	609-1764-ND	2.30	34.47	71922-134LF
40	4.760 (120.90)	609-1765-ND	2.61	38.75	71922-140LF
50	5.760 (146.30)	609-1766-ND	3.09	47.36	71922-150LF

Low Profile Headers

Specifications: • Contact Plating: 0.030 in. (0.76 mm - 30 min.) Gold • Current Rating: 3 Amps Continuous • Temperature Range: -65°C ~ 125°C • Housing Material: Glass Filled • Thermoplastic: UL94V-0, Color: Blue • Pin Material: Phosphor Bronze

Vertical

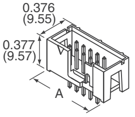

Right Angle

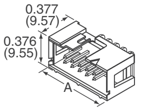

No. of Positions	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	25	FCI Part No.
Vertical Headers					
10	1.284 (32.61)	609-1774-ND	1.65	22.88	75869-101LF
16	1.884 (47.85)	609-1775-ND	1.58	21.40	75869-103LF
20	2.284 (58.01)	609-1776-ND	1.46	20.49	75869-104LF
26	2.884 (73.25)	609-1777-ND	1.78	25.37	75869-105LF
34	3.684 (93.57)	609-1778-ND	2.23	32.98	75869-106LF
40	4.284 (108.81)	609-1779-ND	2.58	38.71	75869-107LF
50	5.284 (134.21)	609-1780-ND	3.08	47.15	75869-108LF
Right Angle Headers					
10	1.284 (32.61)	609-1767-ND	1.10	15.11	75867-101LF
16	1.884 (47.85)	609-1768-ND	1.72	23.83	75867-103LF
20	2.284 (58.01)	609-1769-ND	1.48	20.05	75867-104LF
26	2.884 (73.25)	609-1770-ND	1.85	26.36	75867-105LF
34	3.684 (93.57)	609-1771-ND	2.70	40.04	75867-106LF
40	4.284 (108.81)	609-1772-ND	2.50	37.56	75867-107LF
50	5.284 (134.21)	609-1773-ND	3.57	55.47	75867-108LF

molex Waldom ELECTRONICS .100" (2.54mm) Round Conductor Flat Cable in Precut Lengths

26 AWG (7 x 34) Stranded, Topcoat

Features:
• Gray PVC insulation • U.L. Temperature Rating: -20°C ~ 105°C • U.L. Voltage: 300V maximum • U.L. Flammability Rating: VW-1 • U.L. Style No. 2651 • U.L. Recognized (File #E61522) • CSA Certification (File #LL61126)

Pos.	Digi-Key Part No.	Pricing 1	10	Molex Part No.
3	WM03-02-ND	.44	3.88	28100-0264
	WM03-02A-ND‡ ***NEW!***	.44	3.88	25001-0302
	WM03-04-ND	.53	4.69	28100-0265
	WM03-04A-ND‡ ***NEW!***	.53	4.69	25001-0304
	WM03-06A-ND‡ ***NEW!***	.65	5.70	25001-0306
4	WM04-02A-ND‡ ***NEW!***	.62	5.45	25001-0402
	WM04-04A-ND‡ ***NEW!***	.77	6.76	25001-0404
	WM04-06-ND	.95	8.39	28100-0270
	WM04-06A-ND‡ ***NEW!***	.95	8.39	25001-0406
5	WM05-02A-ND‡ ***NEW!***	.64	5.63	25001-0502
	WM05-04A-ND‡ ***NEW!***	.73	6.43	25001-0504
	WM05-06A-ND‡ ***NEW!***	1.01	8.89	25001-0506
6	WM06-02-ND	.66	5.82	28100-0276
	WM06-02A-ND‡ ***NEW!***	.66	5.82	25001-0602
	WM06-04A-ND‡ ***NEW!***	.84	7.39	25001-0604
	WM06-06-ND	1.06	9.39	28100-0278
	WM06-06A-ND‡ ***NEW!***	.84	7.39	25001-0606

Pos.	Digi-Key Part No.	Pricing 1	10	Molex Part No.
7	WM07-02A-ND‡ ***NEW!***	.67	5.95	25001-0702
	WM07-04A-ND‡ ***NEW!***	.88	7.76	25001-0704
	WM07-06A-ND‡ ***NEW!***	1.12	9.89	25001-0706
8	WM08-06-ND	1.18	10.45	28100-0286
	WM08-02A-ND‡ ***NEW!***	.70	6.14	25001-0802
	WM08-04A-ND‡ ***NEW!***	.92	8.14	25001-0804
	WM08-06A-ND‡ ***NEW!***	1.18	10.45	25001-0806
9	WM09-02A-ND‡ ***NEW!***	.72	6.32	25001-0902
	WM09-04A-ND‡ ***NEW!***	.96	8.45	25001-0904
	WM09-06-ND	1.24	10.96	28100-0290
	WM09-06A-ND‡ ***NEW!***	1.24	10.96	25001-0906
10	WM10-02-ND	.74	6.51	28100-0292
	WM10-02A-ND‡ ***NEW!***	.74	6.51	25001-1002
	WM10-04-ND	1.01	8.89	28100-0293
	WM10-04A-ND‡ ***NEW!***	1.01	8.89	25001-1004
	WM10-06A-ND‡ ***NEW!***	1.31	11.58	25100-1006

‡ RoHS Compliant

28100 Series

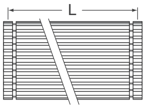

Digi-Key Part No.	Dim. L In. (mm)
XXXX-02-ND	2" (50.80)
XXXX-04-ND	4" (101.6)
XXXX-06-ND	6" (152.4)

25001 Series

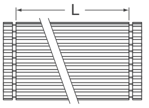

Digi-Key Part No.	Dim. L In. (mm)
XXXX-02A-ND	2" (50.80)
XXXX-04A-ND	4" (101.6)
XXXX-06A-ND	6" (152.4)

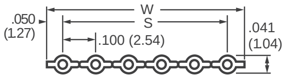

No.of Pos.	Dim. S In. (mm)	Dim. W(Ref.) In.(mm)
3	.200 (5.08)	.300 (7.62)
4	.300 (7.62)	.400 (10.16)
5	.400 (10.16)	.500 (12.7)
6	.500 (12.70)	.600 (15.24)

No.of Pos.	Dim. S In. (mm)	Dim. W(Ref.) In.(mm)
7	.600 (15.24)	.700 (17.78)
8	.700 (17.78)	.800 (20.32)
9	.800 (20.32)	.900 (22.86)
10	.900 (22.86)	1.000 (25.40)

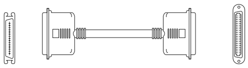

Fig. 1 — Parallel Extension

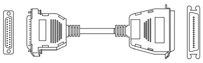

Fig. 2 — Parallel Printer (Snap Hood)

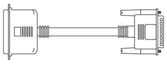

Fig. 3 — Parallel Printer (Molded Hood)

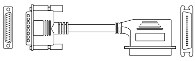

Fig. 4 — Right Angle Parallel Printer

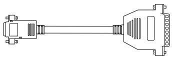

Fig. 5 — Serial Printer (Snap Hoods)

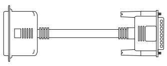

Fig. 6 — IEEE 1284 Bi-Directional Printer

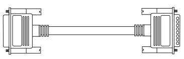

Fig. 7 — IEEE 1284 Bi-Directional Connection

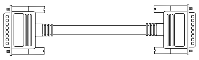

Fig. 8 — IEEE 1284 Bi-Directional Extension

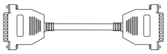

Fig. 9 — Connection Cable, 25-Pin Interface Serial/Parallel

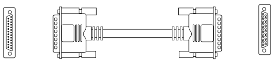

Fig. 10 — 25-Pin Interface Extension

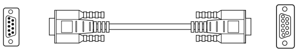

Fig. 11 — 9-Pin Interface Extension

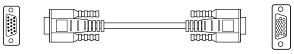

Fig. 12 — VGA Monitor Extension

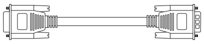

Fig. 13 — Premium VGA Monitor Extension ***NEW!***

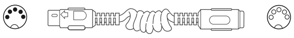

Fig. 14— PC/XT/AT Keyboard Extension

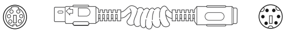

Fig. 15 — PS/2 Keyboard Extension - Spiral

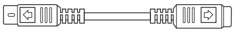

Fig. 16 — PS/2 Keyboard Extension – Straight ***NEW!***

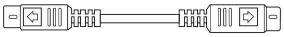

Fig. 17 — PS/2 Keyboard Cable – Straight ***NEW!***

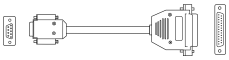

Fig. 18 — IBM Modem/Adapter

AE1115-ND & AE1382-ND & AE9877-ND : 1-8, 2-3, 3-2, 4-20, 5-7, 6-6, 7-4, 8-5, 9-22, S-S

AE1031-ND & AE9878-ND & AE1032-ND & AE1383-ND: 1-8, 2-2, 3-3, 4-6, 5-7, 6-20, 7-5, 8-4, 9-22, shell-shell

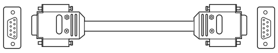

Fig. 19 — Null Modem Cross-Over Cable

AE9879-ND & AE1034-ND & AE9880-ND:
1-4, 2-3, 3-2, 4-1, 5-5, 7-8, 8-7, 9-9, shell-shell

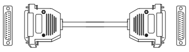

Fig. 20 — Null Modem Serial Cable

AE1035-ND & AE1384-ND: 1-1; 2-3; 3-2; 4-5; 5-4; 7-7; 8-20; 15,17-8, 24-15.

AE1036-ND & AE1385-ND: 2-15, 3-13, 4-12, 5-10, 6-11, 10-5, 11-6, 12-4, 13-3, 15-2, 25-25.

AE1037-ND & AE1386-ND: 1-1, 2-3, 3-2, 4-5, 5-4, (6+8)-20, 7-7, 20-(6+8).

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
			Molded Extension for 36-Pin Centronics Interfaces					
1	6.56 ft. (2m)	36	2x Centronics 36-Pin Female to Female	AE1000-ND	12.38	10.88	9.75	AK155-2
	9.84 ft. (3m)			AE1001-ND	16.50	14.50	13.00	AK434-3
	6.56 ft. (2m)	36	2x Centronics 36-Pin Male to Male	AE1002-ND	10.73	9.43	8.45	AK138-2
	6.56 ft. (2m)			AE1362-NDΔ ***NEW!***	10.63	9.34	8.38	AK138-2-R
	9.84 ft. (3m)			AE1003-ND	15.02	13.20	11.83	AK426-3
	9.84 ft. (3m)			AE1363-NDΔ ***NEW!***	14.52	12.76	11.44	AK426-3-R
	6.56 ft. (2m)	36	2x Centronics 36-Pin Male to Female	AE1004-ND	11.55	10.15	9.10	AK140-2
	6.56 ft. (2m)			AE1364-NDΔ ***NEW!***	11.55	10.15	9.10	AK140-2-R
	9.84 ft. (3m)			AE1005-ND	15.68	13.78	12.35	AK430-3
	9.84 ft. (3m)			AE1365-NDΔ ***NEW!***	14.85	13.05	11.70	AK430-3-R
			Parallel Printer Cable, IBM PC and Compatibles					
2	5.90 ft. (1.8m)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Snap-Hoods	AE1006-ND	4.79	4.21	3.77	AK101-1.8
	5.90 ft. (1.8m)			AE1366-NDΔ ***NEW!***	6.96	6.12	5.49	AK101-1.8-R
	9.84 ft. (3m)			AE1007-ND	7.99	7.02	6.30	AK102-3
	9.84 ft. (3m)			AE1367-NDΔ ***NEW!***	9.08	7.98	7.15	AK102-3-R
	16.40 ft. (5m)			AE1099-ND	7.06	6.21	5.57	AK103-5
	16.40 ft. (5m)			AE9857-NDΔ ***NEW!***	9.83	8.65	7.75	AK103-5-R
	22.96 ft. (7m)			AE9853-NDΔ ***NEW!***	12.67	11.14	9.99	AK104-7-R
3	6.56 ft. (2m)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Molded Hoods	AE9858-NDΔ ***NEW!***	5.18	4.56	4.09	AK108-2-R
	9.84 ft. (3m)			AE1102-ND	5.81	5.11	4.58	AK127-3
	9.84 ft. (3m)			AE1368-NDΔ ***NEW!***	9.08	7.98	7.15	AK127-3-R
	22.96 ft. (7m)			AE9859-NDΔ ***NEW!***	10.33	9.08	8.14	AK159-7-R
4	6.56 ft. (2m)	25	D-Sub 25-Pin Male to Right Angle Centronics 36-Pin Male	AE1008-ND	7.16	6.30	5.65	AK525-2
	6.56 ft. (2m)			AE9860-NDΔ ***NEW!***	7.79	6.85	6.14	AK525-2-R
4	6.56 ft. (2m)	25	D-Sub 25-Pin Male to Left Angle Centronics 36-Pin Male	AE1009-ND	8.25	7.25	6.50	AK525-L2
	6.56 ft. (2m)			AE1369-NDΔ ***NEW!***	6.70	5.89	5.28	AK525-L2-R
			Parallel Printer Cable, IBM PC and Compatibles					
5	9.84 ft. (3m)	8	D-Sub 9-Pin Female to D-Sub 25-Pin Male, Snap-Hoods	AE1103-ND	3.27	2.88	2.58	AK150-3
	9.84 ft. (3m)			AE1370-NDΔ ***NEW!***	5.41	4.76	4.27	AK150-3-R
			IEEE 1284 Bi-Directional Cable - Molded Hoods					
6	5.90 ft. (1.8m)	25	D-Sub 25-Pin Male to Centronics 36-Pin Male, Printer	AE1105-ND	10.26	9.02	8.09	AK711-1.8
	5.90 ft. (1.8m)			AE1371-NDΔ ***NEW!***	12.54	11.02	9.88	AK711-1.8-R
	9.84 ft. (3m)			AE1106-ND	13.79	12.13	10.87	AK712-3
	9.84 ft. (3m)			AE1372-NDΔ ***NEW!***	18.15	15.95	14.30	AK712-3-R
	16.40 ft. (5m)			AE1107-ND	18.65	16.39	14.69	AK713-5
	16.40 ft. (5m)			AE1373-NDΔ ***NEW!***	28.38	24.94	22.36	AK713-5-R
7	5.90 ft. (1.8m)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Female, Connection	AE1108-ND	10.82	9.52	8.53	AK733-1.8
	5.90 ft. (1.8m)			AE9861-NDΔ ***NEW!***	10.63	9.34	8.38	AK733-1.8-R
	9.84 ft. (3m)			AE1109-ND	14.59	12.82	11.50	AK734-3
	9.84 ft. (3m)			AE1374-NDΔ ***NEW!***	18.15	15.95	14.30	AK734-3-R
	16.40 ft. (5m)			AE1110-ND	20.53	18.04	16.18	AK735-5
	16.40 ft. (5m)			AE1375-NDΔ ***NEW!***	28.38	24.94	22.36	AK735-5-R
8	5.90 ft. (1.8m)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Extension	AE9862-NDΔ ***NEW!***	11.29	9.92	8.90	AK736-1.8-R
	9.84 ft. (3m)			AE1113-ND	13.93	12.24	10.98	AK737-3
	9.84 ft. (3m)			AE1376-NDΔ ***NEW!***	18.15	15.95	14.30	AK737-3-R
	16.40 ft. (5m)			AE1114-ND	20.66	18.16	16.28	AK738-5
	16.40 ft. (5m)			AE1377-NDΔ ***NEW!***	28.38	24.94	22.36	AK738-5-R
			Snap-Hood Connection for 25-Pin Interface					
9	6.56 ft. (2m)	25	D-Sub 25-Pin Male to D-Sub 25-Pin Male, Snap-Hoods	AE1111-ND	3.83	3.37	3.02	AK401-2
	6.56 ft. (2m)			AE9863-NDΔ ***NEW!***	5.41	4.76	4.27	AK401-2-R

Δ ***RoHS Compliant***

(Continued)

ASSMANN Computer Cable Assemblies *(Cont.)*

Fig. 21 — PS/2 Keyboard Adapter

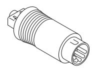

Fig. 22 — D-Sub Adapter

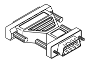

Adapter to assist in the installation of interface systems, using standard cables.

Fig. 23 — PS/2 Mouse Adapter

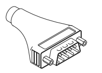

Fig. 24 — PS/2 Mouse-Cable Adapter

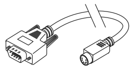

Fig. 25 — Jumper Box

Adapter for special matching of RS 232 interfaces.

The link wires included give an easy economical way of permanently reconfiguring pin functions without rewiring cable assemblies.

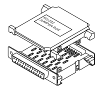

Fig. 26 — Wiring Box

Adapter for special matching of RS 232 interfaces, with the high quality contacts and wire bridges. This adapter can be used many times for the reconfiguration of cables without the need for soldering.

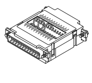

Fig. 27 — CD-ROM Audio Cable ***NEW!***

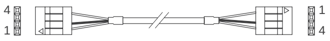

Fig. 28 — CD-ROM Audio Cable

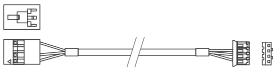

Fig. 29 — Internal S/P - DIF Audio Cable ***NEW!***

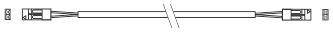

Fig. 30 — Disk Drive Power Splitters

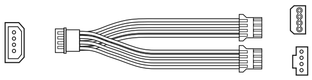

Fig. 31 — Y-Power Cord ***NEW!***

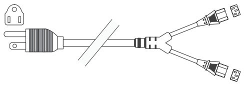

Fig. 32 — Power Cord, Straight/Angled ***NEW!***

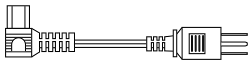

Fig. 33 — Power Cord, Straight/Straight ***NEW!***

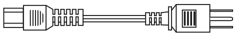

Fig. 34 — Power Cord Single Ended, Straight

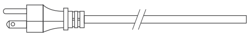

Fig. 35 — Power Cord Single Ended, Straight

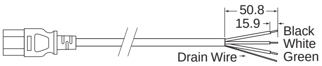

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
Molded Extension for 25-Pin Interfaces								
10	6.56 ft. (2m)	25	2x D-Sub 25-Pin Male to Male	AE1010-ND	6.93	6.09	5.46	AK137-2
	6.56 ft. (2m)			AE1378-NDΔ ***NEW!***	6.86	6.04	5.41	AK137-2-R
	9.84 ft. (3m)			AE9864-NDΔ ***NEW!***	7.99	7.02	6.30	AK162-3-R
	6.56 ft. (2m)	25	2x D-Sub 25-Pin Male to Female	AE9865-NDΔ ***NEW!***	6.58	5.79	5.19	AK135-2-R
	9.84 ft. (3m)			AE9866-NDΔ ***NEW!***	7.85	6.91	6.19	AK166-3-R
	6.56 ft. (2m)	25	2x D-Sub 25-Pin Female to Female	AE1014-ND	7.23	6.36	5.70	AK133-2
	6.56 ft. (2m)			AE9867-NDΔ ***NEW!***	6.86	6.04	5.41	AK133-2-R
	9.84 ft. (3m)			AE9868-NDΔ ***NEW!***	9.21	8.10	7.26	AK170-3-R
Molded Extension for 9-Pin Interfaces								
11	6.56 ft. (2m)	9	2x D-Sub 9-Pin Male to Male	AE9869-NDΔ ***NEW!***	5.25	4.62	4.14	AK129-2-R
	9.84 ft. (3m)			AE9870-NDΔ ***NEW!***	5.68	4.99	4.48	AK174-3-R
	6.56 ft. (2m)	9	2x D-Sub 9-Pin Male to Female	AE1379-NDΔ ***NEW!***	4.92	4.33	3.88	AK131-2-R
	9.84 ft. (3m)			AE1021-ND	6.01	5.28	4.74	AK178-3
	9.84 ft. (3m)			AE9871-NDΔ ***NEW!***	5.71	5.02	4.50	AK178-3-R
	6.56 ft. (2m)	9	2x D-Sub 9-Pin Female to Female	AE1016-ND	5.35	4.70	4.22	AK152-2
	6.56 ft. (2m)			AE9872-NDΔ ***NEW!***	5.08	4.47	4.01	AK152-2-R
	9.84 ft. (3m)			AE9873-NDΔ ***NEW!***	5.71	5.02	4.50	AK182-3-R
VGA Monitor Extension Cable - IBM PS/2								
12	6.56 ft. (2m)	—	2x HD D-Sub 15-Pin Male to Female	AE1022-ND	6.01	5.28	4.74	AK322-2
	6.56 ft. (2m)			AE1380-NDΔ ***NEW!***	5.51	4.85	4.35	AK322-2-R
Molded VGA to 5 x BNC, Monitor Cable								
—	6.56 ft. (2m)	—	HD D-Sub 15-Pin Male to 5 x BNC Male	AE1381-NDΔ ***NEW!***	20.79	18.27	16.38	AK553-2-R
Molded Premium VGA Monitor Extension Cable								
13	5.90 ft. (1.8m)	—	HD D-Sub 15-Pin Male to HD D-Sub 15-Pin Female	AE9874-NDΔ ***NEW!***	9.83	8.65	7.75	AK3220-1.8-R
IBM PC-XT/AT Keyboard Extension								
14	6.56 ft. (2m)	5	5-Pin Standard Din Male to Female	AE1023-ND	4.29	3.77	3.38	AK306-2
	16.40 ft. (5m)			AE1024-ND	8.75	7.69	6.89	AK307-5
Molded PS/2 Keyboard Extension								
15	6.56 ft. (2m)	6	6-Pin Mini Din Male to Female, Spiral	AE1025-ND	5.84	5.14	4.61	AK323-2
	16.40 ft. (5m)			AE1026-ND	10.73	9.43	8.45	AK528-5
16	6.56 ft. (2m)	6	MiniDIN 6-Pin Male to MiniDIN 6-Pin Female, Straight	AE9875-NDΔ ***NEW!***	2.57	2.27	2.03	AK323G-2-R
PS/2 Keyboard Cable - Straight								
17	6.56 ft. (2m)	6	MiniDIN 6-Pin Male to MiniDIN 6-Pin Male, Molded	AE9876-NDΔ ***NEW!***	3.56	3.14	2.81	AK678-2-R
PC Modem (AT Adapter Cable)								
18	.82 ft. (.25m)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE1115-ND	1.72	1.51	1.36	AK128-.25
	.82 ft. (.25m)		D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE1382-NDΔ ***NEW!***	3.20	2.82	2.53	AK128-.25-R
	6.56 ft. (2m)		D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE9877-NDΔ ***NEW!***	4.32	3.80	3.41	AK125-2-R
Null Modem Cables								
18	9.84 ft. (3m)	9	D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE1031-ND	5.05	4.44	3.98	AK149-3
	9.84 ft. (3m)		D-Sub 9-Pin Female to D-Sub 25-Pin Male	AE9878-NDΔ ***NEW!***	5.21	4.59	4.11	AK149-3-R
	9.84 ft. (3m)		D-Sub 9-Pin Female to D-Sub 25-Pin Female	AE1032-ND	5.28	4.64	4.16	AK124-3
	9.84 ft. (3m)		D-Sub 9-Pin Female to D-Sub 25-Pin Female	AE1383-NDΔ ***NEW!***	5.78	5.08	4.55	AK124-3-R
Null Modem, Cross-Cables								
19	9.84 ft. (3m)	9	D-Sub 9-Pin Female to D-Sub 9-Pin Female	AE9879-NDΔ ***NEW!***	5.78	5.08	4.55	AK143-3-R
	9.84 ft. (3m)		D-Sub 9-Pin Male to D-Sub 9-Pin Female	AE1034-ND	5.68	4.99	4.48	AK142-3
	9.84 ft. (3m)		D-Sub 9-Pin Male to D-Sub 9-Pin Female	AE9880-NDΔ ***NEW!***	5.74	5.05	4.53	AK142-3-R
Null Modem, Serial Cables								
20	9.84 ft. (3m)	25	D-Sub 25-Pin Female to D-Sub 25-Pin Female	AE1035-ND	4.39	3.86	3.46	AK144-3
	9.84 ft. (3m)		D-Sub 25-Pin Female to D-Sub 25-Pin Female	AE1384-NDΔ ***NEW!***	6.04	5.31	4.76	AK144-3-R
	9.84 ft. (3m)		D-Sub 25-Pin Male to D-Sub 25-Pin Male	AE1036-ND	7.49	6.59	5.91	AK250-3
	9.84 ft. (3m)		D-Sub 25-Pin Male to D-Sub 25-Pin Male	AE1385-NDΔ ***NEW!***	6.96	6.12	5.49	AK250-3-R
	9.84 ft. (3m)		D-Sub 25-Pin Female to D-Sub 25-Pin Female	AE1037-ND	4.39	3.86	3.46	AK251-3
	9.84 ft. (3m)		D-Sub 25-Pin Female to D-Sub 25-Pin Female	AE1386-NDΔ ***NEW!***	6.04	5.31	4.76	AK251-3-R
PS/2 Keyboard Adapters								
21	—	—	1 x MiniDIN, 6-Pin Female to 1 x DIN 5-Pin Male	AE1046-ND	3.93	3.46	3.10	AB961
			1 x MiniDIN, 6-Pin Female to 1 x DIN 5-Pin Male	AE1387-NDΔ ***NEW!***	1.91	1.69	1.51	AB961-R
			1 x MiniDIN, 6-Pin Male to DIN 5-Pin Female	AE1047-ND	3.04	2.67	2.40	AB440
			1 x MiniDIN, 6-Pin Male to DIN 5-Pin Female	AE1388-NDΔ ***NEW!***	2.90	2.56	2.29	AB440-R

Δ RoHS Compliant

(Continued)

ASSMANN Computer Cable Assemblies *(Cont.)*

Fig. 36 — Power Cord Single Ended, Angled

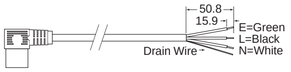

Fig. 37 — Power Cord Single Ended, Angled

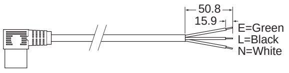

Fig. 38 — Power Cord Single Ended, Straight

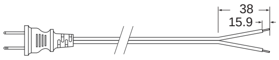

Fig. 39 — Power Cord, Straight/8-Device

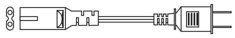

Fig. 40 — Power Cord Extension

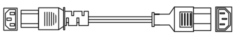

Fig. 41 — RCA Male to Male

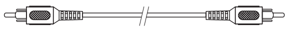

Fig. 42 — RCA Male to Female

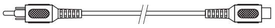

Fig. 43 — RCA Male to Male

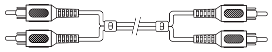

Fig. 44 — RCA Male to Female

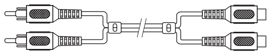

Fig. 45 — RCA Male to Male, High Quality

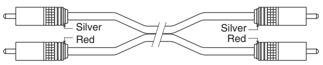

Fig. 46 — RCA Male to Male, High Quality

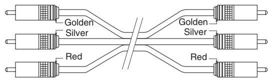

	Length			Digi-Key		Price Each		Assmann
Fig.	Feet (Meters)	Lines	Description	Part No.	1	10	25	Part No.
			D-Sub Adapters					
22	—	—	9-Pin Male to 25-Pin Male	AE1048-ND	3.04	2.67	2.40	AB913
			9-Pin Male to 25-Pin Male	AE1389-NDΔ ***NEW!***	2.67	2.35	2.11	AB913-R
			9-Pin Female to 25-Pin Male	AE9881-NDΔ ***NEW!***	3.20	2.82	2.53	AB914-R
			9-Pin Male to 25-Pin Female	AE9882-NDΔ ***NEW!***	2.34	2.06	1.85	AB914-F-R
			PS/2 Mouse Adapters					
23	—	—	1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Female	AE1053-ND	6.01	5.28	4.74	AB450
			1 x MiniDIN, 6-Pin Female to 1 x D-Sub 25-Pin Male	AE1054-ND	6.30	5.54	4.97	AB402
			1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Male	AE1055-ND	2.77	2.44	2.19	AB405
			1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Male	AE9883-NDΔ ***NEW!***	3.56	3.14	2.81	AB405-R
			1 x MiniDIN, 6-Pin Female to 1 x D-Sub 9-Pin Female	AE1156-ND	2.05	1.80	1.62	AB406
			1 x MiniDIN, 6-Pin Female to 1 x D-Sub 25-Pin Female	AE1056-ND	7.26	6.38	5.72	AB441
			PS/2 Mouse-Cable Adapters					
24	.5 ft. (.15m)	—	1 x MiniDIN, 6-Pin Female to 1 x D-Sub 9-Pin Male	AE1154-ND	2.05	1.80	1.62	AB401K
	.5 ft. (.15m)		1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Female	AE1158-ND	2.05	1.80	1.62	AB450K
	.5 ft. (.15m)		1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Female	AE1393-NDΔ ***NEW!***	2.28	2.01	1.80	AB450K-R
	.5 ft. (.15m)		1 x MiniDIN, 6-Pin Male to 1 x D-Sub 9-Pin Male	AE1155-ND	2.05	1.80	1.62	AB405K
	.5 ft. (.15m)		1 x MiniDIN, 6-Pin Female to 1 x D-Sub 9-Pin Female	AE1157-ND	2.05	1.80	1.62	AB406K
			Jumper Box					
25	—	—	1 x Male, 1 x Female, 25-Pin, Plastic	AE1038-ND	7.39	6.50	5.83	AB972
			1 x Male, 1 x Female, 25-Pin, Metallized	AE1039-ND	7.82	6.88	6.17	AB973
			Wiring Box					
26	—	—	1 x Male, 1 x Female, 25-Pin, Plastic	AE1040-ND	14.12	12.42	11.13	AB946
			1 x Male, 1 x Female, 25-Pin, Metallized	AE1041-ND	14.62	12.85	11.52	AB947
			Power Splitter Cables					
27	1.64 ft. (0.5m)	—	Audio CD-ROM 4 Position 3 Wire	AE1396-NDΔ ***NEW!***	1.65	1.45	1.30	AK2525-R
28	1.64 ft. (0.5m)	—	Audio CD-ROM 4 Position 3 Wire	AE1275-ND	1.19	1.05	.94	AK2524
	1.64 ft. (0.5m)	—	Audio CD-ROM 4 Position 3 Wire	AE1397-NDΔ ***NEW!***	1.85	1.63	1.46	AK2524-R
29	1.64 ft. (0.5m)	—	Internal Cable 2-Pin Housing/Housing	AE9884-NDΔ ***NEW!***	1.75	1.54	1.38	AK2526DVD-R
30	.66 ft. (.2m)	4	Power Cable for 2 - 5 1/4” Drives	AE9885-NDΔ ***NEW!***	1.82	1.60	1.43	AK319-.2-R
	.66 ft. (.2m)		Power Cable for 2 - 3 1/2” Drives	AE1028-ND	1.98	1.74	1.56	AK520-.2
	.66 ft. (.2m)		Power Cable for 2 - 3 1/2” Drives	AE1398-NDΔ ***NEW!***	2.11	1.86	1.67	AK520-.2-R
	.66 ft. (.2m)		Power Cable for 3 1/2” and 5 1/4” Drives	AE1029-ND	1.98	1.74	1.56	AK521-.2
	.66 ft. (.2m)		Power Cable for 3 1/2” and 5 1/4” Drives	AE1399-NDΔ ***NEW!***	2.11	1.86	1.67	AK521-.2-R
			Y-Power Cord					
31	6.56 ft. (2m)	—	1 x Power Plug to 2 x Straight Connector, 10A, 125V	AE9886-NDΔ ***NEW!***	8.20	7.21	6.47	AK500/Y-U-R
			Power Cords					
32	6.56 ft. (2m)	—	Power Plug, Straight to IEC Connector, Angled, 10A, 125V	AE9887-NDΔ ***NEW!***	4.42	3.89	3.49	AK500/U-1-R
33	6.56 ft. (2m)	—	Power Plug, Straight to IEC Connector, Straight, 10A, 125V	AE9888-NDΔ ***NEW!***	4.65	4.09	3.67	AK500/U-2-R
34	6.56 ft. (2m)	—	Cord SVT 18AWG 3 Cond Shielded	AE1325-ND	4.65	4.09	3.67	AK500-OE-5-2
	6.56 ft. (2m)		Cord SVT 18AWG 3 Cond Shielded	AE9889-NDΔ ***NEW!***	5.34	4.69	4.21	AK500-OE-5-2-R
	9.84 ft. (3m)		Cord SVT 18AWG 3 Cond Shielded	AE1326-ND	5.97	5.25	4.71	AK500-OE-5-3
	9.84 ft. (3m)		Cord SVT 18AWG 3 Cond Shielded	AE9890-NDΔ ***NEW!***	7.39	6.50	5.83	AK500-OE-5-3-R
	6.56 ft. (2m)		Cord SJT 18AWG 3 Cond Shielded	AE1327-ND	4.98	4.38	3.93	AK500-OE-6-2
	6.56 ft. (2m)		Cord SJT 18AWG 3 Cond Shielded	AE9891-NDΔ ***NEW!***	6.07	5.34	4.79	AK500-OE-6-2-R
	9.84 ft. (3m)		Cord SJT 18AWG 3 Cond Shielded	AE1328-ND	6.80	5.98	5.36	AK500-OE-6-3
	9.84 ft. (3m)		Cord SJT 18AWG 3 Cond Shielded	AE9892-NDΔ ***NEW!***	8.45	7.43	6.66	AK500-OE-6-3-R
	6.56 ft. (2m)		Cord SVT 18AWG 3 Cond Shielded	AE1329-ND	4.29	3.77	3.38	AK500-OE-7-2
	6.56 ft. (2m)		Cord SVT 18AWG 3 Cond Shielded	AE9893-NDΔ ***NEW!***	5.48	4.82	4.32	AK500-OE-7-2-R
	6.56 ft. (2m)		Cord SJT 18AWG 3 Cond Shielded	AE1330-ND	5.45	4.79	4.29	AK500-OE-8.2
	6.56 ft. (2m)		Cord SJT 18AWG 3 Cond Shielded	AE9894-NDΔ ***NEW!***	6.20	5.46	4.89	AK500-OE-8-2-R
35	6.56 ft. (2m)	—	Cord SJT 18AWG 3 Cond Shielded	AE9895-NDΔ ***NEW!***	6.07	5.34	4.79	AK500-OE-9-2-R
	9.84 ft. (3m)		Cord SJT 18AWG 3 Cond Shielded	AE1339-ND	6.27	5.51	4.94	AK500-OE-9-3
	9.84 ft. (3m)		Cord SJT 18AWG 3 Cond Shielded	AE9896-NDΔ ***NEW!***	8.55	7.52	6.74	AK500-OE-9-3-R
36	6.56 ft. (2m)	—	Cord SJT 18AWG 3 Cond Shielded	AE1331-ND	4.55	4.01	3.59	AK500-RA-5-2
	6.56 ft. (2m)		Cord SJT 18AWG 3 Cond Shielded	AE9897-NDΔ ***NEW!***	6.07	5.34	4.79	AK500-RA-5-2-R
	9.84 ft. (3m)		Cord SJT 18AWG 3 Cond Shielded	AE1332-ND	6.34	5.57	5.00	AK500-RA-5-3
	9.84 ft. (3m)		Cord SJT 18AWG 3 Cond Shielded	AE9898-NDΔ ***NEW!***	8.55	7.52	6.74	AK500-RA-5-3-R
37	6.56 ft. (2m)	—	Cord SVT 18AWG 3 Cond	AE1333-ND	5.64	4.96	4.45	AK500-RA-6-2
	6.56 ft. (2m)		Cord SVT 18AWG 3 Cond	AE9899-NDΔ ***NEW!***	3.80	3.34	2.99	AK500-RA-6-2-R
	6.56 ft. (2m)		Cord SJT 18AWG 3 Cond	AE1334-ND	4.39	3.86	3.46	AK500-RA-7-2
	6.56 ft. (2m)		Cord SJT 18AWG 3 Cond	AE9900-NDΔ ***NEW!***	4.88	4.30	3.85	AK500-RA-7-2-R
	9.84 ft. (3m)		Cord SJT 18AWG 3 Cond	AE1335-ND	6.11	5.38	4.82	AK500-RA-7-3
	9.84 ft. (3m)		Cord SJT 18AWG 3 Cond	AE9901-NDΔ ***NEW!***	6.52	5.73	5.14	AK500-RA-7-3-R
38	6 ft. (1.83m)	—	Cord SPT-1 18AWG 2 Cond	AE1345-ND	2.01	1.77	1.59	AK500-OE-12-6F
	6 ft. (1.83m)		Cord SPT-1 18AWG 2 Cond	AE9902-NDΔ ***NEW!***	2.44	2.15	1.93	AK500-OE-12-6F-R
	8.99 ft. (2.74m)		Cord SPT-1 18AWG 2 Cond	AE1346-ND	3.07	2.70	2.42	AK500-OE-12-9F
	8.99 ft. (2.74m)		Cord SPT-1 18AWG 2 Cond	AE9903-NDΔ ***NEW!***	3.13	2.75	2.47	AK500-OE-12-9F-R
	6 ft. (1.83m)		Cord SPT-2 18AWG 2 Cond	AE1347-ND	2.64	2.32	2.08	AK500-OE-13-6F

Δ ***RoHS Compliant***

(Continued)

Fig. 47 — S Video Male to Male and RCA Male to Male, High Quality

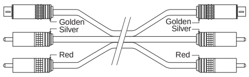

Fig. 48 — RCA Male to Male, High Quality

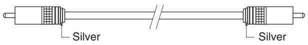

Fig. 49 —S Video Male to Male, High Quality

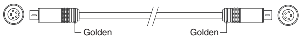

Fig. 50 — S Video Male to Female, High Quality

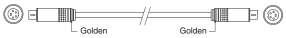

Fig. 51 — RCA Male to Stereo 3.5mm Male

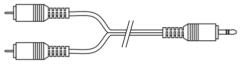

Fig. 52 — Stereo 3.5mm Male to RCA Female

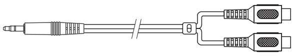

Fig. 53 — Stereo 3.5mm Male to Male ***NEW!***

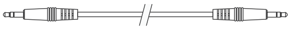

Fig. 54 — Stereo 3.5mm Male to Female ***NEW!***

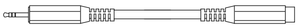

Fig.	Length Feet (Meters)	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
38	6 ft. (1.83m)	—	Cord SPT-2 18AWG 2 Cond	AE9904-NDΔ ***NEW!***	2.45	2.15	1.93	AK500-OE-13-6F-R
	8 ft. (2.44m)		Cord SPT-2 18AWG 2 Cond	AE1348-ND	3.23	2.84	2.55	AK500-OE-13-8F
	8 ft. (2.44m)		Cord SPT-2 18AWG 2 Cond	AE9905-NDΔ ***NEW!***	5.34	4.69	4.21	AK500-OE-13-8F-R
39	6.56 ft. (2m)	—	Power Plug, Straight to Figure 8 Device Connector, Straight	AE1123-ND	2.92	2.57	2.30	AK500/U-3
	6.56 ft. (2m)		Power Plug, Straight to Figure 8 Device Connector, Straight	AE9906-NDΔ ***NEW!***	3.01	2.65	2.38	AK500/U-3-R
Power Cord Extension								
40	6.56 ft. (2m)	—	IEC Plug, Straight to IEC Socket, Straight, 10A, 125V	AE1124-ND	5.05	4.44	3.98	AK500/U-4
	6.56 ft. (2m)		IEC Plug, Straight to IEC Socket, Straight, 10A, 125V	AE9854-NDΔ ***NEW!***	8.02	7.05	6.32	AK500/U-4-R
	3.28 ft. (1m)		Cord SJT 18AWG 3 Cond Shielded	AE1336-ND	3.56	3.13	2.81	AK500-JC-5-1
	3.28 ft. (1m)		Cord SJT 18AWG 3 Cond Shielded	AE9908-NDΔ ***NEW!***	4.72	4.15	3.72	AK500-JC-5-1-R
	3.28 ft. (1m)		Cord SJT 18AWG 3 Cond	AE1337-ND	3.30	2.90	2.60	AK500-JC-6-1
	3.28 ft. (1m)		Cord SJT 18AWG 3 Cond	AE9909-NDΔ ***NEW!***	4.49	3.95	3.54	AK500-JC-6-1-R
	1.64 ft. (.5m)		Cord SVT 18AWG 3 Cond Shielded	AE9910-NDΔ ***NEW!***	2.82	2.48	2.23	AK500-OE-11-.5-R
	3.28 ft. (1m)		Cord SVT 18AWG 3 Cond Shielded	AE9911-NDΔ ***NEW!***	3.80	3.34	2.99	AK500-OE-11-1-R
	4.92 ft. (1.5m)		Cord SVT 18AWG 3 Cond Shielded	AE1342-ND	4.03	3.54	3.18	AK500-OE-11-1.5
	4.92 ft. (1.5m)		Cord SVT 18AWG 3 Cond Shielded	AE9912-NDΔ ***NEW!***	4.55	4.01	3.59	AK500-OE-11-1.5-R
	6.56 ft. (2m)		Cord SVT 18AWG 3 Cond	AE9913-NDΔ ***NEW!***	8.35	7.34	6.59	AK500-OE-11-2-R
	8.20 ft. (2.5m)		Cord SVT 18AWG 3 Cond	AE9914-NDΔ ***NEW!***	6.24	5.49	4.92	AK500-OE-11-2.5-R
Multi-Media Cables								
41	4.92 ft. (1.5m)	—	RCA Male to Male	AE1400-NDΔ ***NEW!***	2.01	1.77	1.59	AK-AV200-R
	6.56 ft. (2m)		RCA Male to Male	AE1044-ND	1.81	1.59	1.43	AK302-2
	6.56 ft. (2m)		RCA Male to Male	AE1401-NDΔ ***NEW!***	2.57	2.27	2.03	AK302-2-R
	8.20 ft. (2.5m)		RCA Male to Male	AE1309-ND	2.27	2.00	1.80	AK-AV201
	8.20 ft. (2.5m)		RCA Male to Male	AE1402-NDΔ ***NEW!***	2.28	2.01	1.80	AK-AV201-R
42	8.20 ft. (2.5m)	—	RCA Male to Female	AE1310-ND	2.34	2.06	1.85	AK-AV202
	8.20 ft. (2.5m)		RCA Male to Female	AE1403-NDΔ ***NEW!***	2.57	2.27	2.03	AK-AV202-R
43	4.92 ft. (1.5m)	—	2RCA Male to Male	AE1264-ND	2.84	2.50	2.24	AKCHMM-015
	4.92 ft. (1.5m)		2RCA Male to Male	AE1404-NDΔ ***NEW!***	3.66	3.22	2.89	AKCHMM-015-R
	6.56 ft. (2m)		2RCA Male to Male	AE1265-ND	2.21	1.95	1.75	AKCHMM-2
	6.56 ft. (2m)		2RCA Male to Male	AE1405-NDΔ ***NEW!***	3.86	3.40	3.05	AKCHMM-2-R
	8.20 ft. (2.5m)		2RCA Male to Male	AE1266-ND	2.94	2.59	2.32	AKCHMM-025
	8.20 ft. (2.5m)		2RCA Male to Male	AE1406-NDΔ ***NEW!***	4.49	3.95	3.54	AKCHMM-025-R
	16.40 ft. (5m)		2RCA Male to Male	AE1267-ND	4.75	4.18	3.75	AKCHMM-050
	16.40 ft. (5m)		2RCA Male to Male	AE1407-NDΔ ***NEW!***	6.86	6.04	5.41	AKCHMM-050-R
44	4.92 ft. (1.5m)	—	2RCA Male to Female (Red and White)	AE1260-ND	2.64	2.32	2.08	AKCHMF-015
	4.92 ft. (1.5m)		2RCA Male to Female (Red and White)	AE1408-NDΔ ***NEW!***	3.63	3.19	2.86	AKCHMF-015-R
	6.56 ft. (2m)		2RCA Male to Female (Red and White)	AE1261-ND	2.21	1.95	1.75	AKCHMF-2
	6.56 ft. (2m)		2RCA Male to Female (Red and White)	AE1409-NDΔ ***NEW!***	3.86	3.40	3.05	AKCHMF-2-R
	6.56 ft. (2m)		2RCA Male to Female (Red and Black)	AE1045-ND	2.44	2.14	1.92	AK3030-2
	6.56 ft. (2m)		2RCA Male to Female (Red and Black)	AE1410-NDΔ ***NEW!***	3.86	3.40	3.05	AK3030-2-R
	8.20 ft. (2.5m)		2RCA Male to Female (Red and White)	AE1262-ND	2.94	2.59	2.32	AKCHMF-025
	8.20 ft. (2.5m)		2RCA Male to Female (Red and White)	AE1411-NDΔ ***NEW!***	4.51	3.97	3.56	AKCHMF-025-R
	16.40 ft. (5m)		2RCA Male to Female (Red and White)	AE1263-ND	5.25	4.62	4.14	AKCHMF-050
	16.40 ft. (5m)		2RCA Male to Female (Red and White)	AE1412-NDΔ ***NEW!***	6.86	6.04	5.41	AKCHMF-050-R
45	4.92 ft. (1.5m)	—	Audio RCA High Quality, Male to Male	AE1349-ND	18.61	16.36	14.67	AK-AV500
	4.92 ft. (1.5m)		Audio RCA High Quality, Male to Male	AE1413-NDΔ ***NEW!***	22.90	20.13	18.05	AK-AV500-R
	16.40 ft. (5m)		Audio RCA High Quality, Male to Male	AE1350-ND	29.34	25.79	23.12	AK-AV501
	16.40 ft. (5m)		Audio RCA High Quality, Male to Male	AE1414-NDΔ ***NEW!***	36.63	32.19	28.86	AK-AV501-R
46	4.92 ft. (1.5m)	—	Audio/Video RCA High Quality, Male to Male	AE1353-ND	26.66	23.44	21.01	AK-AV504
	4.92 ft. (1.5m)		Audio/Video RCA High Quality, Male to Male	AE1415-NDΔ ***NEW!***	36.20	31.82	28.53	AK-AV504-R
	16.40 ft. (5m)		Audio/Video RCA High Quality, Male to Male	AE1354-ND	40.33	35.44	31.78	AK-AV505
	16.40 ft. (5m)		Audio/Video RCA High Quality, Male to Male	AE1416-NDΔ ***NEW!***	56.83	49.94	44.78	AK-AV505-R
47	4.92 ft. (1.5m)	—	Audio/Video RCA High Quality, Male to Male	AE1359-ND	28.58	25.12	22.52	AK-AV510
	4.92 ft. (1.5m)		Audio/Video RCA High Quality, Male to Male	AE1417-NDΔ ***NEW!***	35.64	31.32	28.08	AK-AV510-R
	16.40 ft. (5m)		Audio/Video RCA High Quality, Male to Male	AE1360-ND	43.89	38.57	34.58	AK-AV511
	16.40 ft. (5m)		Audio/Video RCA High Quality, Male to Male	AE1418-NDΔ ***NEW!***	66.33	58.29	52.26	AK-AV511-R
48	4.92 ft. (1.5m)	—	Audio RCA High Quality, Male to Male	AE1351-ND	8.81	7.75	6.95	AK-AV502
	4.92 ft. (1.5m)		Audio RCA High Quality, Male to Male	AE1419-NDΔ ***NEW!***	12.74	11.20	10.04	AK-AV502-R
	16.40 ft. (5m)		Audio RCA High Quality, Male to Male	AE1352-ND	13.20	11.60	10.40	AK-AV503
	16.40 ft. (5m)		Audio RCA High Quality, Male to Male	AE1420-NDΔ ***NEW!***	17.42	15.32	13.73	AK-AV503-R
49	4.92 ft. (1.5m)	—	Video S-VHS High Quality, Male to Male	AE10074-NDΔ ***NEW!***	11.29	9.92	8.90	AK-AV506-R
	16.40 ft. (5m)		Video S-VHS High Quality, Male to Male	AE1356-ND	18.35	16.13	14.46	AK-AV507
	16.40 ft. (5m)		Video S-VHS High Quality, Male to Male	AE1422-NDΔ ***NEW!***	25.31	22.25	19.95	AK-AV507-R
50	4.92 ft. (1.5m)	—	Video S-VHS High Quality, Male to Female	AE1357-ND	12.77	11.23	10.07	AK-AV508
	4.92 ft. (1.5m)		Video S-VHS High Quality, Male to Female	AE9915-NDΔ ***NEW!***	12.67	11.14	9.99	AK-AV508-R
	16.40 ft. (5m)		Video S-VHS High Quality, Male to Female	AE1358-ND	17.82	15.66	14.04	AK-AV509
	16.40 ft. (5m)		Video S-VHS High Quality, Male to Female	AE1423-NDΔ ***NEW!***	26.20	23.03	20.65	AK-AV509-R
51	4.92 ft. (1.5m)	—	3.5mm Stereo Male to 2RCA Male	AE1269-ND	3.14	2.76	2.47	AK243-015
	4.92 ft. (1.5m)		3.5mm Stereo Male to 2RCA Male	AE9916-NDΔ ***NEW!***	3.70	3.25	2.92	AK243-015-R
	6.56 ft. (2m)		3.5mm Stereo Cable, 2 Phono Male	AE9917-NDΔ ***NEW!***	3.66	3.22	2.89	AK243-2-R
	8.20 ft. (2.5m)		3.5mm Stereo Male to 2RCA Male	AE1271-ND	3.96	3.48	3.12	AK243-025
	8.20 ft. (2.5m)		3.5mm Stereo Male to 2RCA Male	AE1424-NDΔ ***NEW!***	4.13	3.63	3.25	AK243-025-R
	16.40 ft. (5m)		3.5mm Stereo Male to 2RCA Male	AE1272-ND	5.74	5.05	4.53	AK243-050
	16.40 ft. (5m)		3.5mm Stereo Male to 2RCA Male	AE1425-NDΔ ***NEW!***	5.78	5.08	4.55	AK243-050-R
	32.8 ft. (10m)		3.5mm Stereo Male to 2RCA Male	AE1273-ND	6.83	6.01	5.39	AK243-10
	32.8 ft. (10m)		3.5mm Stereo Male to 2RCA Male	AE1426-NDΔ ***NEW!***	11.55	10.15	9.10	AK243-10-R
52	6.56 ft. (2m)	—	3.5mm Stereo Male to 2 RCA Female	AE1274-ND	1.91	1.69	1.51	AK244-2
	6.56 ft. (2m)		3.5mm Stereo Male to 2 RCA Female	AE1427-NDΔ ***NEW!***	3.93	3.46	3.10	AK244-R
53	6.56 ft. (2m)	—	3.5mm Stereo Male to Male	AE9918-NDΔ ***NEW!***	2.54	2.24	2.01	AK203/MM-R
54	8.20 ft. (2.5m)	—	3.5mm Stereo Male to Female	AE9919-NDΔ ***NEW!***	3.63	3.19	2.86	AK203-2.5-R

Δ ***RoHS Compliant***

ASSMANN SCSI, Serial ATA, USB & CAT5 Computer Cable Assemblies

HP = Half Pitch

Fig.	Length Meters	Lines	Description	Digi-Key Part No.	Price Each			Assmann Part No.
					1	10	25	
			SCSI Series, Internal Adapter					
1	—	—	HP D-sub 68 Male to Box Header 50 Male	AE1057-ND	13.86	12.18	10.92	AB-Y1007
2	—	—	HP D-sub 68 Female to Socket 50 Female	AE1058-ND	18.48	16.24	14.56	AB-Y1008
			SCSI Series, Low Profile Adapter					
3	—	50	HP D-sub 68 Female to IDC 50 Female	AE1059-ND	19.80	17.40	15.60	AB-Y1014
			SCSI-3 Series, Adapter					
4	—	50	HP D-sub 50 Male to HP D-sub 68 Female	AE1060-ND	22.28	20.25	18.23	AB-Y334
5	—	50	HP D-sub 50 Female to HP D-sub 68 Female	AE1061-ND	21.31	19.38	17.44	AB-Y335
6	—	50	HP D-sub 50 Male to HP D-sub 68 Male	AE1062-ND	24.20	22.00	19.80	AB-Y344
7	—	50	HP D-sub 68 Male to HP D-sub 50 Female	AE1063-ND	23.10	21.00	18.90	AB-Y345
			SCSI-1 Series, Terminator					
8	—	50	Centronic 50 Male, A Cable, Active	AE1064-ND	15.18	13.34	11.96	AB-Y102T
9	—	50	Box Header 50 Male, A Cable, Active	AE1066-ND	16.17	14.21	12.74	AB-Y130T
10	—	50	Box Header 50 M/F, A Cable, Active	AE1065-ND	19.80	17.40	15.60	AB-Y126T
			SCSI-2 Series, Terminator					
11	—	50	HP D-sub 50 Male with Latch, A Cable, Active	AE1067-ND	19.80	17.40	15.60	AB-Y201L
			SCSI-3 Series, Terminator					
12	—	68	HP D-sub 68 Male with Latch, P Cable, Passive	AE1068-ND	22.11	19.43	17.42	AB-Y315T
			FAST SCSI 2 to SCSI 2 Cable, Shielded, UL 2919					
13	.90	50	HP D-sub 50, HP D-sub, Male	AE1163-ND	18.71	16.45	14.75	AK579/F-1
			Clip to HP D-sub 50, HP D-sub, Male, Clip	AE1428-NDΔ ***NEW!***	21.78	19.14	17.16	AK579/F-1-R
13	2.0	50	HP D-sub 50, HP D-sub, Male	AE1164-ND	20.85	18.95	17.06	AK579/F-2
			Clip to HP D-sub 50, HP D-sub, Male, Clip	AE1429-NDΔ ***NEW!***	23.65	21.50	19.35	AK579/F-2-R
			SCSI-2 Series, Round Cable					
14	.91	50	HP D-sub 50 Male to Centronic 50 Male, A Cable	AE1069-ND	16.60	14.59	13.08	AK-Y1202
			SCSI-3 Series, Round Cable					
15	.91	68	HP D-sub 68 Male X 2, A Cable	AE1430-NDΔ ***NEW!***	22.66	20.60	18.54	AK-Y1301-R
16	.91	50	HP D-sub 68 Male to Centronic 50 Male, A Cable	AE1071-ND	18.94	16.65	14.93	AK-Y1302
17	.91	25	HP D-sub 68 Male to HP D-sub 25 Male, A Cable	AE1073-ND	15.94	14.01	12.56	AK-Y1304
			SCSI Series, Flat Cable					
18	2	50	UL 2651, 50 pins, 1.27mm pitch, IDC 50 X 8, P Cable	AE1074-ND	7.06	6.21	5.57	AK-Y2110
			SCSI-3 Series, Flat Cable					
19	.45	68	.635mm HP D-sub 68 Male X 2, P Cable	AE1075-ND	13.33	11.72	10.51	AK-Y2301
	.45	68	.635mm HP D-sub 68 Male X 2, P Cable	AE1489-NDΔ ***NEW!***	13.99	12.30	11.03	AK-Y2301-R
20	0.6	68	.635mm HP D-sub 68 Male X 3, P Cable	AE1076-ND	21.32	18.74	16.80	AK-Y2302
21	1.2	68	.635mm HP D-sub 68 Male X 5, P Cable	AE1077-ND	24.72	22.48	20.23	AK-Y2303
22	1.6	68	.635mm HP D-sub 68 Female X 2 to .635mm HP D-sub 68 Male X 8	AE1079-ND	42.17	38.92	36.20	AK-Y2310
			Hard Drive Cable for 2 x IDE / AT Bus Hard Drives					
23	.5	40	(3) 40 Pin Socket Connectors	AE1311-ND	2.67	2.35	2.11	AK5430-.5
			ATA Ultra Flat Cables					
24	.46	40	Ultra ATA HDD 100Mbps	AE1312-ND	6.53	5.75	5.15	AK-ATA-100
			NEW! Serial ATA Cables NEW!					
25	.3	7	Serial ATA Cable	AE10077-NDΔ	2.84	2.50	2.24	AK-SATA-030-R
	.5	7	Serial ATA Cable	AE10079-NDΔ	2.74	2.41	2.16	AK-SATA-050-R
	.75	7	Serial ATA Cable	AE10081-NDΔ	3.30	2.90	2.60	AK-SATA-075-R
	1.0	7	Serial ATA Cable	AE10083-NDΔ	2.03	1.79	1.60	AK-SATA-100-R
26	.3	7	Serial ATA Cable Right Angle	AE10078-NDΔ	2.84	2.50	2.24	AK-SATA-030DL-R
	.5	7	Serial ATA Cable Right Angle	AE10080-NDΔ	2.74	2.41	2.16	AK-SATA-050DL-R
	.75	7	Serial ATA Cable Right Angle	AE10082-NDΔ	3.30	2.90	2.60	AK-SATA-075DL-R
27	.5	7	Serial ATA Cable 4-Pos Power Connector	AE10084-NDΔ	4.98	4.38	3.93	AK-SATA-SP-050-R
	.75	7	Serial ATA Cable 4-Pos Power Connector	AE10085-NDΔ	5.31	4.67	4.19	AK-SATA-SP-075-R
	1.0	7	Serial ATA Cable 4-Pos Power Connector	AE10086-NDΔ	5.58	4.91	4.40	AK-SATA-SP-100-R
28	.15	4	Power Supply Cable 15 Pos - 4 Pos	AE10087-NDΔ	2.11	1.86	1.67	AK-SATA-PC-015-R
29A	.5	7	Conn Slotbracket 1-SATA Port	AE10088-NDΔ	4.92	4.33	3.88	AK-SATA-SB1-R
29B	.5	7	Conn Slotbracket 2-SATA Ports	AE10089-NDΔ	8.88	7.81	7.00	AK-SATA-SB2-R

Δ ***RoHS Compliant***

Fig. 1 — Internal Adapter, Molding

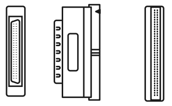

Fig. 2 — Internal Adapter, Assembly

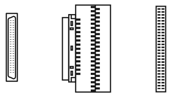

Fig. 3 — Low Profile Adapter

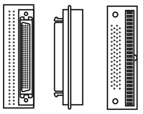

Fig. 4 — SCSI-3 M-F Adapter

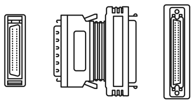

Fig. 5 — SCSI-3 F-F Adapter

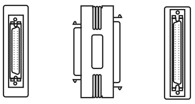

Fig. 6 — SCSI-3 M-M Adapter

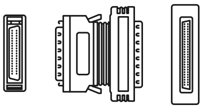

Fig. 7 — SCSI-3 M-F Adapter

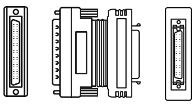

Fig. 8 — Centronic 50 Male

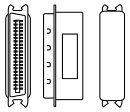

Fig. 9 — Box Header 50 Male

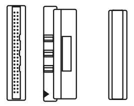

Fig. 10 — Box Header 50 M/F

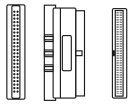

Fig. 11 — D-Sub 50 Male with Latch

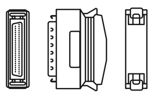

Fig. 12 — D-Sub 68 Male with Latch

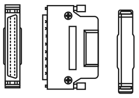

Fig. 13 — SCSI 2 to SCSI 2 Round Cable

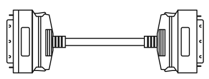

Fig. 14 — SCSI-2 Extension Cable

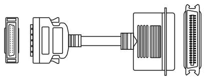

Fig. 15 — SCSI-3 Extension Cable *NEW!*

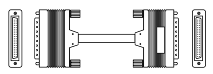

Fig. 16 — SCSI-3 Adapter Cable

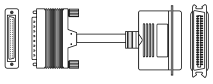

Fig. 17 — SCSI-3 Adapter Cable

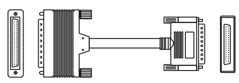

(Continued)

SCSI, Serial ATA, USB & CAT5 Computer Cable Assemblies *(Cont.)*

Fig.	Length Meters	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
			IEEE1394 Cable Double Shielded					
30	1.8	6	6-Pin Male to 6-Pin Male	AE1125-ND	18.25	16.04	14.38	AK1394-18
	1.8	6	6-Pin Male to 6-Pin Male	AE1432-NDΔ ***NEW!***	9.64	8.47	7.60	AK1394-18-R
	3.0	6	6-Pin Male to 6-Pin Male	AE1128-ND	24.02	21.12	18.93	AK1394-30
	3.0	6	6-Pin Male to 6-Pin Male	AE1433-NDΔ ***NEW!***	14.12	12.42	11.13	AK1394-30-R
	5.0	6	6-Pin Male to 6-Pin Male	AE1131-ND	24.16	22.30	20.74	AK1394-50
	5.0	6	6-Pin Male to 6-Pin Male	AE1434-NDΔ ***NEW!***	14.68	13.55	12.60	AK1394-50-R
30A	1.8	4	6-Pin Male to 4-Pin Male	AE1126-ND	21.81	19.17	17.19	AK1394-184
	1.8	5	6-Pin Male to 4-Pin Male	AE1435-NDΔ ***NEW!***	8.25	7.25	6.50	AK1394-184-R
	3.0	4	6-Pin Male to 4-Pin Male	AE1129-ND	22.25	20.23	18.21	AK1394-304
	3.0	4	6-Pin Male to 4-Pin Male	AE1436-NDΔ ***NEW!***	9.08	8.25	7.43	AK1394-304-R
	5.0	4	6-Pin Male to 4-Pin Male	AE1132-ND	24.63	22.73	21.14	AK1394-504
	5.0	4	6-Pin Male to 4-Pin Male	AE1437-NDΔ ***NEW!***	11.60	10.71	9.96	AK1394-504-R
30B	1.8	4	4-Pin Male to 4-Pin Male	AE1127-ND	23.38	21.25	19.13	AK1394-1844
	1.8	4	4-Pin Male to 4-Pin Male	AE1438-NDΔ ***NEW!***	7.26	6.60	5.94	AK1394-1844-R
	3.0	4	4-Pin Male to 4-Pin Male	AE1130-ND	27.45	24.95	22.46	AK1394-3044
	5.0	4	4-Pin Male to 4-Pin Male	AE1133-ND	29.03	26.79	24.92	AK1394-5044
			IEEE 1394 & USB Connectors					
31	—	—	IEEE 1394 Recept Horizontal SMT	AE7348-ND	2.00	1.76	1.58	A-IE-S-SMT
	—	—	IEEE 1394 Recept Horizontal SMT	AE9920-NDΔ ***NEW!***	2.28	2.01	1.80	A-IE-S-SMT-R
32	—	—	IEEE 1394 Recept Horizontal PCB	AE9921-NDΔ ***NEW!***	2.18	1.92	1.72	A-IE-S-DIP-R
33	—	—	IEEE 1394 Recept Vertical PCB	AE7346-ND	1.90	1.67	1.50	A-IE-E-DIP
	—	—	IEEE 1394 Recept Vertical PCB	AE9922-NDΔ ***NEW!***	2.18	1.92	1.72	A-IE-E-DIP-R
34	—	4	USB 4P Recept Thru-hole, Type A	AE9923-NDΔ ***NEW!***	1.02	.90	.81	AU-Y1005-R
	—	4	USB 4P Recept SMT, Type A	AE1084-ND	1.25	1.11	.99	AU-Y1006
	—	4	USB 4P Recept SMT, Type A	AE9924-NDΔ ***NEW!***	1.02	.90	.81	AU-Y1006-R
35	—	4	USB 4P Recept Thru-hole, Type B	AE9925-NDΔ ***NEW!***	1.39	1.22	1.10	AU-Y1007-R
36	—	4	USB 4P Recept Dual Port, Type A	AE9926-NDΔ ***NEW!***	2.01	1.77	1.59	AU-Y1008-R
			USB Plugs and Hoods					
37	—	—	USB A-Male, Solder Version	AE10091-NDΔ ***NEW!***	.69	.61	.55	A-USBPA-R
	—	—	USB B-Male, Solder Version	AE1136-ND	1.06	.93	.84	A-USBPB
	—	—	Hood for USB A Male	AE1135-ND	.43	.38	.34	A-USBPA-HOOD
	—	—	Hood for USB A Male	AE10090-NDΔ ***NEW!***	.36	.32	.29	A-USBPA-HOOD-R
	—	—	Hood for USB B Male	AE1137-ND	.43	.38	.34	A-USBPB-HOOD
	—	—	Hood for USB B Male	AE1441-NDΔ ***NEW!***	.46	.41	.37	A-USBPB-HOOD-R
			USB Cables					
38	1	4	Cable Mini USB 4-Pin Male	AE1280-ND	2.71	2.38	2.14	AK670M-1
	1	4	Cable Mini USB 4-Pin Male	AE1442-NDΔ ***NEW!***	3.50	3.08	2.76	AK670M-1-R
	2	4	Cable Mini USB 4-Pin Male	AE1281-ND	3.00	2.64	2.37	AK670M-2
	2	4	Cable Mini USB 4-Pin Male	AE1443-NDΔ ***NEW!***	4.29	3.77	3.38	AK670M-2-R
	3	4	Cable Mini USB 4-Pin Male	AE1282-ND	3.89	3.43	3.07	AK670M-3
	5	4	Cable Mini USB 4-Pin Male	AE1283-ND	4.36	3.83	3.44	AK670M-5
	1	4	Cable Mini USB 2.0, 4-Pin Male	AE1444-NDΔ ***NEW!***	4.03	3.54	3.18	AK670M/2-1-R
	2	4	Cable Mini USB 2.0, 4-Pin Male	AE1289-ND	3.23	2.85	2.55	AK670M/2-2
	2	4	Cable Mini USB 2.0, 4-Pin Male	AE1445-NDΔ ***NEW!***	5.21	4.59	4.11	AK670M/2-2-R
	3	4	Cable Mini USB 2.0, 4-Pin Male	AE1290-ND	3.76	3.31	2.97	AK670M/2-3
	3	4	Cable Mini USB 2.0, 4-Pin Male	AE1446-NDΔ ***NEW!***	6.40	5.63	5.05	AK670M/2-3-R
	5	4	Cable Mini USB 2.0, 4-Pin Male	AE1291-ND	4.79	4.21	3.77	AK670M/2-5
	5	4	Cable Mini USB 2.0, 4-Pin Male	AE1447-NDΔ ***NEW!***	9.17	8.07	7.23	AK670M/2-5-R
39	1	4	Cable Mini USB 5-Pin Male	AE1284-ND	2.71	2.38	2.14	AK672M-1
	1	4	Cable Mini USB 5-Pin Male	AE1448-NDΔ ***NEW!***	3.50	3.08	2.76	AK672M-1-R
	2	4	Cable Mini USB 5-Pin Male	AE9927-NDΔ ***NEW!***	3.70	3.26	2.92	AK672M-2-R
	3	4	Cable Mini USB 5-Pin Male	AE1286-ND	3.53	3.11	2.79	AK672M-3
	3	4	Cable Mini USB 5-Pin Male	AE9928-NDΔ ***NEW!***	4.49	3.95	3.54	AK672M-3-R
	5	4	Cable Mini USB 5-Pin Male	AE1287-ND	4.36	3.83	3.44	AK672M-5
	5	4	Cable Mini USB 5-Pin Male	AE1449-NDΔ ***NEW!***	6.37	5.60	5.02	AK672M-5-R
	1	4	Cable Mini USB 2.0, 5-Pin Male	AE1450-NDΔ ***NEW!***	3.17	2.79	2.50	AK672M/2-1-R
	2	4	Cable Mini USB 2.0, 5-Pin Male	AE1293-ND	3.23	2.85	2.55	AK672M/2-2
	2	4	Cable Mini USB 2.0, 5-Pin Male	AE9929-NDΔ ***NEW!***	4.69	4.12	3.70	AK672M/2-2-R
	3	4	Cable Mini USB 2,0, 5-Pin Male	AE1451-NDΔ ***NEW!***	5.78	5.08	4.55	AK672M/2-3-R
	5	4	Cable Mini USB 2.0, 5-Pin Male	AE1295-ND	4.79	4.21	3.77	AK672M/2-5
	5	4	Cable Mini USB 2.0, 5-Pin Male	AE1452-NDΔ ***NEW!***	8.58	7.54	6.76	AK672M/2-5-R
40	2	4	Cable USB A-A Male	AE1141-ND	4.82	4.24	3.80	AK670-2
	2	4	Cable USB A-A Male	AE9930-NDΔ ***NEW!***	3.76	3.31	2.97	AK670/2-R
	5	4	Cable USB A-A Male	AE1142-ND	7.79	6.85	6.14	AK670-5
	5	4	Cable USB A-A Male	AE1453-NDΔ ***NEW!***	7.59	6.67	5.98	AK670-5-R

Δ RoHS Compliant

Fig. 18 — SCSI Internal RAID Flat Cable

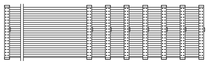

Fig. 19 — SCSI-3 Internal Flat Cable

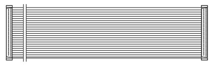

Fig. 20 — SCSI-3 Internal Flat Cable

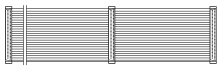

Fig. 21 — SCSI-3 Internal RAID Flat Cable

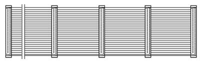

Fig. 22 — SCSI-3 Internal RAID Flat Cable

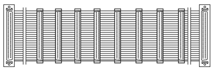

Fig. 23 — 40 Pin Socket Connectors

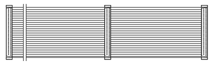

Fig. 24 — Ultra ATA Flat Cables

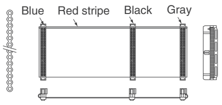

Fig. 25 — Serial ATA Cable *NEW!*

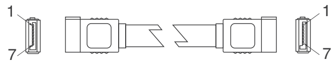

Fig. 26 — Serial ATA Cable Right Angle *NEW!*

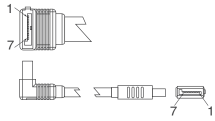

Fig. 27 — Serial ATA Cable with Power Connector *NEW!*

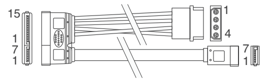

Fig. 28 — Serial ATA Cable with Power Cable *NEW!*

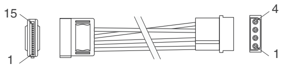

Fig. 29 — Serial ATA Slotbracket with Cable *NEW!*

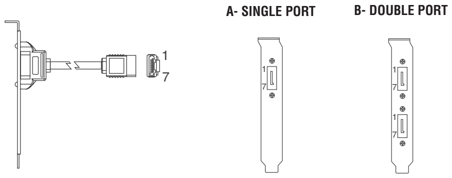

A- SINGLE PORT

B- DOUBLE PORT

(Continued)

Fig.	Length Meters	Lines	Description	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
40	1	4	Cable USB 2.0, A-A Male	AE1454-NDΔ ***NEW!***	3.20	2.82	2.53	AK670/2-1-R
	2	4	Cable USB 2.0, A-A Male	AE1297-ND	3.50	3.08	2.76	AK670/2-2
	3	4	Cable USB 2.0, A-A Male	AE1298-ND	4.22	3.72	3.33	AK670/2-3
	3	4	Cable USB 2.0, A-A Male	AE1455-NDΔ ***NEW!***	5.51	4.85	4.35	AK670/2-3-R
	5	4	Cable USB 2.0, A-A Male	AE1456-NDΔ ***NEW!***	6.47	5.69	5.10	AK670/2-5-R
41	2	4	Cable USB B-B Male	AE1151-ND	4.95	4.35	3.90	AK673-2
	2	4	Cable USB B-B Male	AE1457-NDΔ ***NEW!***	4.03	3.54	3.18	AK673-2-R
	5	4	Cable USB B-B Male	AE1152-ND	7.95	6.99	6.27	AK673-5
	1	4	Cable USB 2.0, B-B Male	AE1304-ND	2.77	2.44	2.19	AK673/2-1
	1	4	Cable USB 2.0, B-B Male	AE1458-NDΔ ***NEW!***	3.20	2.82	2.53	AK673/2-1-R
	2	4	Cable USB 2.0, B-B Male	AE1305-ND	3.50	3.08	2.76	AK673/2-2
	2	4	Cable USB 2.0, B-B Male	AE1459-NDΔ ***NEW!***	4.29	3.77	3.38	AK673/2-2-R
	3	4	Cable USB 2.0, B-B Male	AE1306-ND	4.22	3.72	3.33	AK673/2-3
	5	4	Cable USB 2.0, B-B Male	AE1460-NDΔ ***NEW!***	6.58	5.79	5.19	AK673/2-5-R
42	1.5	4	Cable USB A-B Male	AE9931-NDΔ ***NEW!***	4.06	3.57	3.20	AU-Y1002A-R
	2	4	Cable USB A-B Male	AE1144-ND	4.82	4.24	3.80	AK672-2
	2	4	Cable USB A-B Male	AE9932-NDΔ ***NEW!***	4.09	3.60	3.23	AK672-2-R
	5	4	Cable USB A-B Male	AE1145-ND	7.26	6.38	5.72	AK672-5
	5	4	Cable USB A-B Male	AE1461-NDΔ ***NEW!***	7.92	6.96	6.24	AK672-5-R
	1	—	Cable USB 2.0, A-B Male	AE1462-NDΔ ***NEW!***	3.10	2.73	2.45	AK672/2-1-R
	2	—	Cable USB 2.0, A-B Male	AE1493-NDΔ ***NEW!***	3.89	3.43	3.07	AK672/2-R
	3	—	Cable USB 2.0, A-B Male	AE1302-ND	4.22	3.72	3.33	AK672/2-3
	3	—	Cable USB 2.0, A-B Male	AE1463-NDΔ ***NEW!***	5.08	4.47	4.01	AK672/2-3-R
	5	—	Cable USB 2.0, A-B Male	AE9933-NDΔ ***NEW!***	5.89	5.18	4.65	AK672/2-5-R
	2	4	Cable USB A-B Male, iMac Blue	AE1146-ND	4.95	4.35	3.90	AK672MB
	2	4	Cable USB A-B Male, iMac Blue	AE1361-NDΔ ***NEW!***	4.06	3.57	3.20	AK672MB-R
	2	4	Cable USB A-B Male, iMac Purple	AE1464-NDΔ ***NEW!***	4.06	3.57	3.20	AK672MG-R
	2	4	Cable USB A-B Male, iMac Green	AE1148-ND	4.95	4.35	3.90	AK672ML
	2	4	Cable USB A-B Male, iMac Green	AE1465-NDΔ ***NEW!***	4.06	3.57	3.20	AK672ML-R
	2	4	Cable USB A-B Male, iMac Red	AE1149-ND	4.95	4.35	3.90	AK672MS
	2	4	Cable USB A-B Male, iMac Red	AE1466-NDΔ ***NEW!***	4.06	3.57	3.20	AK672MS-R
	2	4	Cable USB A-B Male, iMac Orange	AE1150-ND	4.95	4.35	3.90	AK672MT
43	1.8	4	USB A Male to USB A Female, Dbl. Shield	AE1138-ND	5.28	4.64	4.16	AK669-1.8
	1.8	4	USB A Male to USB A Female, Dbl. Shield	AE9934-NDΔ ***NEW!***	4.52	3.98	3.57	AK669-1.8-R
	3	4	USB A Male to USB A Female, Dbl. Shield	AE9935-NDΔ ***NEW!***	5.97	5.25	4.71	AK669-3-R
	5	4	USB A Male to USB A Female, Dbl. Shield	AE1468-NDΔ ***NEW!***	8.15	7.17	6.43	AK669-50-R
44	2	4	USB B to Open End	AE1153-ND	3.23	2.85	2.55	AK673-OE
				AE1470-NDΔ ***NEW!***	3.63	3.19	2.86	AK673-OE-R
			USB Adapters — Internal/External on Slot Bracket, Double Shielded					
45	0.25	—	2 x USB-A Female to 2 x 5-Pin, 2.54mm Socket Conn.	AE1161-ND	7.10	6.24	5.59	AK674
			USB Adapters — Molded					
46	—	4	USB Adapter, A Type, Female	AE1080-ND	2.71	2.38	2.14	AU-Y1000-A
	—	4	USB-A Female to USB-B Male	AE1159-ND	4.95	4.35	3.90	A-USB-2
	—	4	USB-A Male to USB-B Female	AE1160-ND	4.95	4.35	3.90	A-USB-3
	—	4	USB-A Male to USB-B Female	AE1472-NDΔ ***NEW!***	5.61	4.93	4.42	A-USB-3-R
	—	4	USB-A Female to USB-B Female	AE1318-ND	4.95	4.35	3.90	A-USB-1
	—	4	USB-A Female to USB-B Female	AE1473-NDΔ ***NEW!***	5.61	4.93	4.42	A-USB-1-R
	—	4	USB-A Female to USB-A Female	AE1319-ND	4.95	4.35	3.90	A-USB-4
	—	4	USB-A Female to USB-A Female	AE1474-NDΔ ***NEW!***	5.61	4.93	4.42	A-USB-4-R
47	1.83	—	Adapter USB Serial DB9/25 Male	AE1488-NDΔ ***NEW!***	42.50	37.36	33.49	DA-70119-R
			Modular Plugs					
48	—	—	4P4C, Unshielded, for Flat Cable	AE1194-ND	.17	.15	.13	A-MO-4/4-SF
	—	—	4P4C, Unshielded, for Flat Cable	AE1475-NDΔ ***NEW!***	.23	.21	.19	A-MO-4/4-SF-R
	—	—	6P4C, Unshielded, for Flat Cable	AE1196-ND	.17	.15	.13	A-MO-6/4-SF
	—	—	6P4C, Unshielded, for Flat Cable	AE1476-NDΔ ***NEW!***	.23	.21	.19	A-MO-6/4-SF-R
	—	—	6P6C, Unshielded, for Flat Cable	AE1198-ND	.30	.27	.24	A-MO-6/6-SF
	—	—	6P6C, Unshielded, for Flat Cable	AE1477-NDΔ ***NEW!***	.26	.24	.21	A-MO-6/6-SF-R
	—	—	8P8C, Unshielded, for Flat Cable	AE1200-ND	.36	.32	.29	A-MO-8/8-SF
	—	—	8P8C, Unshielded, for Flat Cable	AE1478-NDΔ ***NEW!***	.30	.27	.24	A-MO-8/8-SF-R
	—	—	8P8C, Shielded, for Flat Cable, CAT5	AE1201-ND	1.02	.90	.81	A-MO-8/8-SFS
	—	—	8P8C, Shielded, for Flat Cable, CAT5	AE1479-NDΔ ***NEW!***	.53	.47	.42	A-MO-8/8-SFS-R
	—	—	4P4C, Unshielded, for Round Cable	AE1195-ND	.17	.15	.13	A-MO-4/4-SR
	—	—	6P4C, Unshielded, for Round Cable	AE1197-ND	.17	.15	.13	A-MO-6/4-SR
	—	—	6P4C, Unshielded, for Round Cable	AE1481-NDΔ ***NEW!***	.23	.21	.19	A-MO-6/4-SR-R
	—	—	6P6C, Unshielded, for Round Cable	AE1199-ND	.30	.27	.24	A-MO-6/6-SR
	—	—	6P6C, Unshielded, for Round Cable	AE1482-NDΔ ***NEW!***	.26	.24	.21	A-MO-6/6-SR-R
	—	—	8P8C, Unshielded, for Round Cable	AE1202-ND	.36	.32	.29	A-MO-8/8-SR
	—	—	8P8C, Unshielded, for Round Cable	AE1483-NDΔ ***NEW!***	.30	.27	.24	A-MO-8/8-SR-R
	—	—	8P8C, Shielded, for Round Cable, CAT5	AE1203-ND	1.02	.90	.81	A-MO-8/8-SRS
	—	—	8P8C, Shielded, for Round Cable, CAT5	AE1484-NDΔ ***NEW!***	.53	.47	.42	A-MO-8/8-SRS-R

Δ ***RoHS Compliant***

Fig. 30 — IEEE 1394 Cable

Fig. 30A

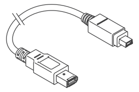

Fig. 30B

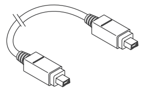

Fig. 31

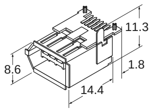

Fig. 32

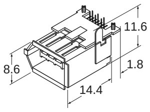

Fig. 33

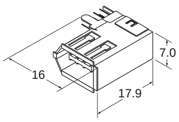

Fig. 34 — USB 4P Female Right Angle Connector

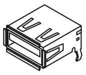

Fig. 35 — USB 4P Female Right Angle Connector

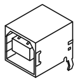

Fig. 36 — USB 4P Female Dual Port Right Angle Thru-Hole Connector

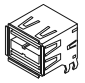

Fig. 37 — USB Plugs and Hoods

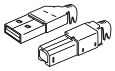

Fig. 38 — Mini USB Cables with 4 Position Male

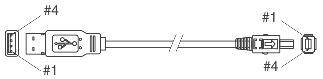

Fig. 39 — Mini USB Cables with 5 Position Male

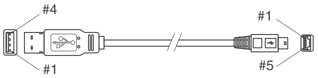

Fig. 40 — USB Cable, A-A Male

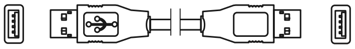

Fig. 41 — USB Cable, B-B Male

Fig. 42 — USB Cable, A-B Male

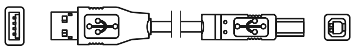

(Continued)

ASSMANN SCSI, Serial ATA, USB & CAT5 Computer Cable Assemblies *(Cont.)*

Fig.	Length Meters	Description	Unshielded Version (UTP)					Shielded Version (FTP)				
			Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.	Digi-Key Part No.	Price Each 1	10	25	Assmann Part No.
PVC Cable Assembly CAT5, RJ45 — Molded												
49	2.0	CAT 5, Patch Cable, Gray	—	—	—	—	—	AE1098-ND	6.73	5.92	5.31	A-MCS-80020-MPGRAY
PVC Cable Assembly CAT5(e), RJ45 — Molded												
49	1.0	CAT .5e, Patch Cable, Gray	AE1208-ND	2.05	1.80	1.62	A-MCUP-80010	AE1233-ND	2.84	2.50	2.24	A-MCSP-80010
	1.0	CAT .5e, Patch Cable, Gray	AE9936-NDΔ ***NEW!***	4.70	4.14	3.71	A-MCUP-80010-R	AE9961-NDΔ ***NEW!***	2.15	1.89	1.69	A-MCSP-80010-R
	2.0	CAT .5e, Patch Cable, Gray	—	—	—	—	—	AE1238-ND	3.99	3.51	3.15	A-MCSP-80020
	2.0	CAT .5e, Patch Cable, Gray	AE9937-NDΔ ***NEW!***	5.91	5.20	4.66	A-MCUP-80020-R	AE9962-NDΔ ***NEW!***	4.22	3.72	3.33	A-MCSP-80020-R
	3.0	CAT .5e, Patch Cable, Gray	AE9938-NDΔ ***NEW!***	7.23	6.36	5.70	A-MCUP-80030-R	AE9963-NDΔ ***NEW!***	5.56	4.89	4.39	A-MCSP-80030-R
	5	CAT .5e, Patch Cable, Gray	—	—	—	—	—	AE1248-ND	7.13	6.27	5.62	A-MCSP-80050
	5	CAT .5e, Patch Cable, Gray	AE9939-NDΔ ***NEW!***	9.50	8.36	7.49	A-MCUP-80050-R	AE9964-NDΔ ***NEW!***	7.57	6.66	5.97	A-MCSP-80050-R
	10	CAT .5e, Patch Cable, Gray	—	—	—	—	—	AE1253-ND	12.71	11.17	10.01	A-MCSP-80100
	10	CAT .5e, Patch Cable, Gray	AE9940-NDΔ ***NEW!***	12.38	10.88	9.75	A-MCUP-80100-R	AE9965-NDΔ ***NEW!***	12.80	11.26	10.09	A-MCSP-80100-R
	1.0	CAT .5e, Patch Cable, Red	AE1209-ND	2.05	1.80	1.62	A-MCUP-80010/R	AE1234-ND	2.84	2.50	2.24	A-MCSP-80010/R
	1.0	CAT .5e, Patch Cable, Red	AE9941-NDΔ ***NEW!***	4.70	4.14	3.71	A-MCUP-80010/R-R	AE9966-NDΔ ***NEW!***	2.15	1.89	1.69	A-MCSP-80010/R-R
	2.0	CAT .5e, Patch Cable, Red	AE1214-ND	2.90	2.56	2.29	A-MCUP-80020/R	AE1239-ND	3.99	3.51	3.15	A-MCSP-80020/R
	2.0	CAT .5e, Patch Cable, Red	AE9942-NDΔ ***NEW!***	5.91	5.20	4.66	A-MCUP-80020/R-R	AE9967-NDΔ ***NEW!***	4.22	3.72	3.33	A-MCSP-80020/R-R
	3.0	CAT .5e, Patch Cable, Red	AE1219-ND	3.66	3.22	2.89	A-MCUP-80030/R	AE1244-ND	5.12	4.50	4.03	A-MCSP-80030/R
	3.0	CAT .5e, Patch Cable, Red	AE9943-NDΔ ***NEW!***	7.23	6.36	5.70	A-MCUP-80030/R-R	AE9968-NDΔ ***NEW!***	5.56	4.89	4.39	A-MCSP-80030/R-R
	5	CAT .5e, Patch Cable, Red	AE1224-ND	5.35	4.70	4.22	A-MCUP-80050/R	AE1249-ND	7.13	6.27	5.62	A-MCSP-80050/R
	5	CAT .5e, Patch Cable, Red	AE9944-NDΔ ***NEW!***	9.50	8.36	7.49	A-MCUP-80050/R-R	AE9969-NDΔ ***NEW!***	7.57	6.66	5.97	A-MCSP-80050/R-R
	10	CAT .5e, Patch Cable, Red	AE1229-ND	9.64	8.47	7.60	A-MCUP-80100/R	AE1254-ND	12.71	11.17	10.01	A-MCSP-80100/R
	10	CAT .5e, Patch Cable, Red	AE9945-NDΔ ***NEW!***	12.38	10.88	9.75	A-MCUP-80100/R-R	AE9970-NDΔ ***NEW!***	12.80	11.26	10.09	A-MCSP-80100/R-R
	1.0	CAT .5e, Patch Cable, Blue	AE1210-ND	2.05	1.80	1.62	A-MCUP-80010/B	AE1235-ND	2.84	2.50	2.24	A-MCSP-80010/B
	1.0	CAT .5e, Patch Cable, Blue	AE9946-NDΔ ***NEW!***	4.70	4.14	3.71	A-MCUP-80010/B-R	AE9971-NDΔ ***NEW!***	2.15	1.89	1.69	A-MCSP-80010/B-R
	2.0	CAT .5e, Patch Cable, Blue	AE9947-NDΔ ***NEW!***	5.91	5.20	4.66	A-MCUP-80020/B-R	AE9972-NDΔ ***NEW!***	4.22	3.72	3.33	A-MCSP-80020/B-R
	3.0	CAT .5e, Patch Cable, Blue	AE1220-ND	3.66	3.22	2.89	A-MCUP-80030/B	AE1245-ND	5.12	4.50	4.03	A-MCSP-80030/B
	3.0	CAT .5e, Patch Cable, Blue	AE9948-NDΔ ***NEW!***	7.23	6.36	5.70	A-MCUP-80030/B-R	AE9973-NDΔ ***NEW!***	5.56	4.89	4.39	A-MCSP-80030/B-R
	5	CAT .5e, Patch Cable, Blue	AE1225-ND	5.35	4.70	4.22	A-MCUP-80050/B	AE1250-ND	7.13	6.27	5.62	A-MCSP-80050/B
	5	CAT .5e, Patch Cable, Blue	AE9949-NDΔ ***NEW!***	9.50	8.36	7.49	A-MCUP-80050/B-R	AE9974-NDΔ ***NEW!***	7.57	6.66	5.97	A-MCSP-80050/B-R
	10	CAT .5e, Patch Cable, Blue	AE1230-ND	9.64	8.47	7.60	A-MCUP-80100/B	AE1255-ND	12.71	11.17	10.01	A-MCSP-80100/B
	10	CAT .5e, Patch Cable, Blue	AE9950-NDΔ ***NEW!***	12.38	10.88	9.75	A-MCUP-80100/B-R	AE9975-NDΔ ***NEW!***	12.80	11.26	10.09	A-MCSP-80100/B-R
	1.0	CAT .5e, Patch Cable, Yellow	—	—	—	—	—	AE1236-ND	2.84	2.50	2.24	A-MCSP-80010/Y
	1.0	CAT .5e, Patch Cable, Yellow	AE9951-NDΔ ***NEW!***	4.70	4.14	3.71	A-MCUP-80010/Y-R	AE9976-NDΔ ***NEW!***	2.15	1.89	1.69	A-MCSP-80010/Y-R
	2.0	CAT .5e, Patch Cable, Yellow	AE1216-ND	2.90	2.56	2.29	A-MCUP-80020/Y	AE1241-ND	3.99	3.51	3.15	A-MCSP-80020/Y
	2.0	CAT .5e, Patch Cable, Yellow	AE9952-NDΔ ***NEW!***	5.91	5.20	4.66	A-MCUP-80020/Y-R	AE9977-NDΔ ***NEW!***	4.22	3.72	3.33	A-MCSP-80020/Y-R
	3.0	CAT .5e, Patch Cable, Yellow	—	—	—	—	—	AE1246-ND	5.12	4.50	4.03	A-MCSP-80030/
	3.0	CAT .5e, Patch Cable, Yellow	AE9953-NDΔ ***NEW!***	7.23	6.36	5.70	A-MCUP-80030/Y-R	AE9978-NDΔ ***NEW!***	5.56	4.89	4.39	A-MCSP-80030/Y-R
	5	CAT .5e, Patch Cable, Yellow	—	—	—	—	—	AE1251-ND	7.13	6.27	5.62	A-MCSP-80050/Y
	5	CAT .5e, Patch Cable, Yellow	AE9954-NDΔ ***NEW!***	9.50	8.36	7.49	A-MCUP-80050/Y-R	AE9979-NDΔ ***NEW!***	7.57	6.66	5.97	A-MCSP-80050/Y-R
	10	CAT .5e, Patch Cable, Yellow	AE1231-ND	9.64	8.47	7.60	A-MCUP-80100/Y	AE1256-ND	12.71	11.17	10.01	A-MCSP-80100/Y
	10	CAT .5e, Patch Cable, Yellow	AE9955-NDΔ ***NEW!***	12.38	10.88	9.75	A-MCUP-80100/Y-R	AE9980-NDΔ ***NEW!***	12.80	11.26	10.09	A-MCSP-80100/Y-R
	1.0	CAT .5e, Patch Cable, Green	AE1212-ND	2.05	1.80	1.62	A-MCUP-80010/G	AE1237-ND	2.84	2.50	2.24	A-MCSP-80010/G
	1.0	CAT .5e, Patch Cable, Green	AE9956-NDΔ ***NEW!***	4.70	4.14	3.71	A-MCUP-80010/G-R	AE9981-NDΔ ***NEW!***	2.15	1.89	1.69	A-MCSP-80010/G-R
	2.0	CAT .5e, Patch Cable, Green	AE1217-ND	2.90	2.56	2.29	A-MCUP-80020/G	AE1242-ND	3.99	3.51	3.15	A-MCSP-80020/G
	2.0	CAT .5e, Patch Cable, Green	AE9957-NDΔ ***NEW!***	5.91	5.20	4.66	A-MCUP-80020/G-R	AE9982-NDΔ ***NEW!***	4.22	3.72	3.33	A-MCSP-80020/G-R
	3.0	CAT .5e, Patch Cable, Green	AE1222-ND	3.66	3.22	2.89	A-MCUP-80030/G	AE1247-ND	5.12	4.50	4.03	A-MCSP-80030/G
	3.0	CAT .5e, Patch Cable, Green	AE9958-NDΔ ***NEW!***	7.23	6.36	5.70	A-MCUP-80030/G-R	AE9983-NDΔ ***NEW!***	5.56	4.89	4.39	A-MCSP-80030/G-R
	5	CAT .5e, Patch Cable, Green	AE1227-ND	5.35	4.70	4.22	A-MCUP-80050/G	AE1252-ND	7.13	6.27	5.62	A-MCSP-80050/G
	5	CAT .5e, Patch Cable, Green	AE9959-NDΔ ***NEW!***	9.50	8.36	7.49	A-MCUP-80050/G-R	AE9984-NDΔ ***NEW!***	7.57	6.66	5.97	A-MCSP-80050/G-R
	10	CAT .5e, Patch Cable, Green	—	—	—	—	—	AE1257-ND	12.71	11.17	10.01	A-MCSP-80100/G
	10	CAT .5e, Patch Cable, Green	AE9960-NDΔ ***NEW!***	12.38	10.88	9.75	A-MCUP-80100/G-R	AE9985-NDΔ ***NEW!***	12.80	11.26	10.09	A-MCSP-80100/G-R

Δ ***RoHS Compliant***

Fig. 43 — USB Extension Cable

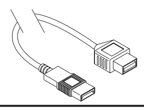

Fig. 44 — USB Cable, B to Open End

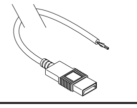

Fig.45 — USB Adapter on Slot Bracket

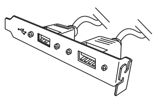

Fig. 46 — USB Adapters

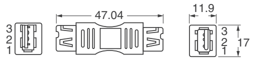

Fig. 47 — USB to Serial Adapter Cable *NEW!*

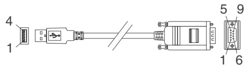

Fig. 48 — Modular Plug

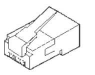

Fig. 49 — CAT 5(e) Patch Cable

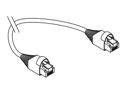

Cable Testers

PC Cable Tester, Standalone

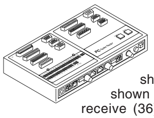

All suitable PC cable can be tested with this tester. • Checks: connection, pin allocation and shielding • Pin allocation shown by LEDs: transmit (25), receive (36), battery (1), shielding (2), number of wires (4) • 4 Buttons: Test, auto/ manual, speed, on/off • Automatic and manual test run • Connectors: DSub-9 M/F, DSub-15 M/F, DSub-15 HD M/F, DSub-25 M/F Centronics 36 female, BNC male, RJ45 female, USB A+B female, IEEE 1394 female • Power supply by 9V block battery, 9V/150mA external power supply optional • Dimensions (WxDxH): 250mm x 130mm x 35mm

AE1207-ND PC Cable Tester, Standalone (ACT-PC-SO)............... **$175.88**

Network Cable Tester RJ45, BNC

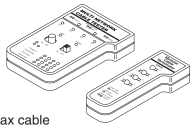

• Cable tester for shielded and unshielded CAT5 cable with RJ45 plug as well as for BNC-coax cable • Test function for cable with RJ45 UTP/STP and BNC plug, patch panels and modular wall plates • Fast test function by auto-scanning • Tests: connection, allocation, pairs according to EIA/TIA 356A, 568A, 568B, Token Ring • Main device with one RJ45 and one BNC female, remote unit with one RJ45 female • With remote unit for testing of installed cable • LEDs for status display • Operation with 9V block battery • Includes artificial leather bag

AE1206-ND Network Cable Tester (ACT-MN)..................... **$69.30**

Modular Cable Tester

RJ45 / RJ11 / RJ12

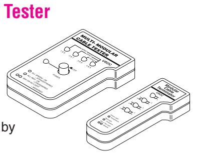

- Modular cable tester for cable with RJ45, RJ12 and RJ11 plug
- Fast test function by auto-scanning
- Test: connection, allocation and pairs
- Main device with two RJ45 female; remote unit with one RJ45 female
- Installed cable can be tested with remote unit
- LEDs for status display
- Operation with 9V block battery
- Includes artificial leather bag

AE1204-ND Modular Cable Tester (ACT-MM)..................... **$82.60**

Premium Network Cable Tester RJ45, BNC

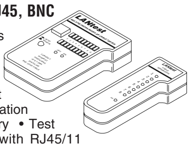

• Total of 18 LEDs (for each wire and for shielding) show the allocation and give a fast, exact test result • Operation with 9V block battery • Test function for cable with RJ45/11 UTP/STP & BNC plugs, patch panels and modular wall plates • Includes BNC cable adapter for coax cable test • Manual or automatic test run • Tests: connection, allocation, pairs according to EIA/TIA 356A, 568A, 568B, Token Ring • Main device with two RJ45 female, remote unit with one RJ45 female • Installed cable can be tested with remote unit • Includes artificial leather bag

AE1205-ND Premium Network Cable Tester (ACT-LAN)................. **$114.63**

HIROSE ELECTRIC CO.,LTD. USB 2.0 Cable Assemblies and Connectors

Features: • Tested and certified by USB Association approved laboratory the connectors will perform at transmission speeds up to 480Mbps. Thin design of the plug assembly and the overmold section allows use in small spaces. The plug also incorporates a build-in snap-lock feature, providing tactile verification of the full and secure mating of plug and receptacle. Plating is lead-free in order to protect environment. **Applications**: • Personal and mobile computer peripheral equipment, data terminals, digital cameras, MP3 players, PDA's, GPS and other devices utilizing standard USB protocols. **Specifications**: • Current Rating: 1A • Voltage Rating: 5VAC • Operating Temperature Range: -30°C ~ 75°C • Contact Resistance: 50mΩ maximum • Insulation Resistance: 100MΩ minimum • Dielectric Withstanding Voltage: No Flashover or insulation break down; 100VAC/one minute. **Materials**; **Receptacles**: • Insulator: Synthetic resin • Finish Color: Black • Contacts: Copper alloy • Contact Area: Gold plating • Termination Area: Tin alloy plating • Metal Shield: Copper alloy • Finish: Tin alloy plating. **Materials**; **Plugs**: • Insulator: Synthetic resin • Finish Color: Black • Contacts: Copper Alloy • Finish Contact Area: Gold plating • Termination Area: Tin alloy plating • Metal Shield: Steel • Finish: Tin alloy plating • Over-mold compound: PVC • Finish: Black

Fig.	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Hirose Part No.
Right Angle Receptacle, Metal Shield, SMT Type with Positioning Post							
1	H2959CT-ND	1.39	1.01	.83	H2959TR-ND	487.00	UX60-MB-5ST
Right Angle Receptacle, Metal Shield, DIP Type with Positioning Post							
2	H2960CT-ND	1.39	1.01	.83	H2960TR-ND	487.00	UX60-MB-5S8
Right Angle Receptacle, Metal Shield, SMT Type without Positioning Post							
1	H2961CT-ND	1.39	1.01	.83	H2961TR-ND	487.00	UX60A-MB-5ST
Plug, Cable Mount Type							
3	H2955-ND H2958-ND	1.22 1.22	.88 .88	.72 .72	— —	— —	UX40-MB-5P UX40A-MB-5P

Fig.	Description	Length (mm)	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
4	USB Type A to Mini-B	1,000	H2957-ND	5.97	4.64	3.71	UX40-MB-5PA-1000-2003
5	USB Mini-B to Mini-B	500	H2956-ND	7.05	5.47	4.38	UX40-MB-5PP-500-1002

Fig. 1

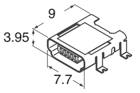

Fig. 2

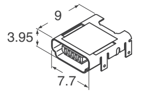

Fig. 3

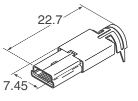

Fig. 4

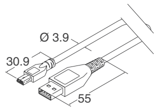

Fig. 5

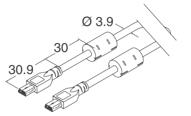

USB Connectors

USB Standard Features: • Broad industry support from computer and telecom leaders • 12 Mbit/sec low-cost data transfer rates • Provides PC/telephone integration and digital connectivity • Standard serial port connector for all devices • Supports daisy chaining and up to 127 devices • Windows '95 Operating Driver support **Applications:** • Desktop and Notebook PCs • Peripherals • Keyboard, Mouse • Telephony, ISDN, PBX's, Handsets
USB Receptacles: • Electrical: Voltage: 30V • Current: Up to 1.5A • Contact Resistance: 30mΩ maximum • Dielectric Withstanding Voltage: 750VAC • Insulation Resistance: 1000MΩ minimum •Housing: Glass fiber-filled polyester, UL94V-0 • Metal Shell: Copper Alloy • Plating: Gold
USB On-the-Go (OTG) Connectors: • Approximately 1/8th the size of standard USB-B connectors • Fully compliant with current USB 2.0 specifications • Compact and lightweight design meets various portable and mobile equipment needs • Operates at speeds up to 480 Mbps • Rugged durability up to 5,000 cycles

Dim. in mm

Fig. 1
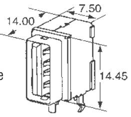

Temperature Range: 0°C ~ 40°C

Fig. 2
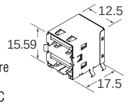

Temperature Range: 0°C ~ 50°C

Fig. 3
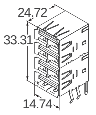

Temperature Range: 0°C ~ 40°C

Fig. 4
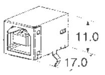

Temperature Range: 0°C ~ 50°C

Fig. 5
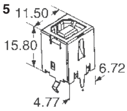

Temperature Range: 0°C ~ 50°C

Fig. 6
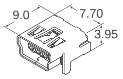

Temperature Range: 0°C ~ 50°C

Fig. 7
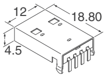

Temperature Range: -55°C ~ 85°C

Fig. 8
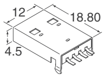

Temperature Range: -55°C ~ 85°C

Fig. 9
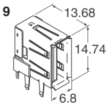

Temperature Range: -55°C ~ 85°C

Fig. 10
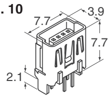

Temperature Range: -55°C ~ 85°C

Fig. 11
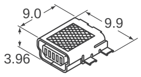

Temperature Range: 0°C ~ 50°C

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	Type 'A' Upright, Right Angle	WM17112-ND	2.05	1.82	1.21	89485-8000
2	Type 'A' Dual Stacked, Right Angle, White	WM17130-ND◊	1.41	1.25	.84	67298-4090
3	Type 'A' 4 Stacked, Right Angle, Black	WM17111-ND	6.85	6.05	4.03	67857-0011
4	Type 'B' Single, Right Angle, Black	WM17113-ND	1.92	1.70	1.13	67068-8000
	Type 'B' Single, Right Angle, White	WM17131-ND◊	2.06	1.82	1.22	67068-9000
5	Type 'B' Vertical with Paired Boardlocks and Grounding Pins	WM17114-ND	1.61	1.42	.95	67265-2000
6	Type 'Mini-B', OTG, Right Angle, PCB Mount	WM17115-ND	2.10	1.69	1.13	54819-0519
	Type 'Mini-AB' OTG, Right Angle, 5 Position, PCB Mount	WM17121-ND◊	2.73	2.41	1.61	56579-0519
7	Type 'A' Single, Right Angle, PCB Mount	WM17117-ND◊	1.85	1.64	1.10	48037-0001
8	Type 'A' Single, Right Angle, SMD	WM17118-ND◊	1.85	1.64	1.10	48037-1000
9	Type 'A' Single, Upright Right Angle, PCB Mnt.	WM17119-ND◊	1.87	1.66	1.11	47500-0000
10	Type 'Mini-B', USB OTG, Vertical, 5 Position, PCB Mount	WM17120-ND◊	5.03	4.44	2.96	500075-0517
11	Type 'Mini-B', USB OTG. Right Angle, 5-Pos. SMD	WM17116CT-ND WM17116TR-ND*	1.69	1.36 541.60/800	1.13	54819-0572 54819-0572
	Type 'Mini-AB', USB OTG, Right Angle, SMD, with Cover Tape	WM17122CT-ND◊ WM17122TR-ND◊*	2.32	1.86 743.20/800	1.55	56579-0576 56579-0576

* Tape and Reel Pricing ◊ ***RoHS Compliant***

USB Cable Assemblies and Connectors

***Fig. 1 and Fig. 2* - Features:** • Fully-shielded and polarized plugs • Friction grip on over-molded body facilitates easy mating and unmating. **Electrical:** • Voltage: 30V • Current: 1.0A • Contact Resistance: 30mΩ max. • Dielectric Withstanding Voltage: 750VAC • Insulation Resistance: 1000MΩ min. **Mechanical:** • Mating Force: 35N max. • Withdrawal Force: 10N min. • Durability: 1500 cycles min.
***Fig. 3* - Features:** • Approximately 1/8 the size of standard USB-B connectors • Fully compliant with current USB 2.0 specifications **Specifications:** • Voltage: 30V • Current: 1.0A • Contact Resistance: 50mΩ max. • Dielectric Withstanding Voltage: 100 AC/1 minute • Insulation Resistance: 100MΩ min.

Dim. in mm

Fig. 1
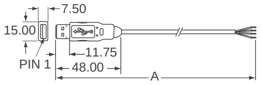

Fig. 2
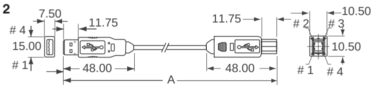

Fig. 3
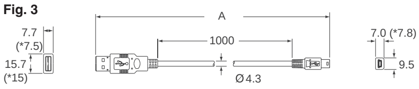

Fig.	Dim. A (mm)	Description	Digi-Key Part No.	Price Each 1	10	25	Molex Part No.
1	2080	USB Type 'A-to-Pigtail' Full-Rated	WM17104-ND	4.79	3.84	3.20	88728-3400
	2080	USB Type 'A-to-Pigtail' Sub-Channel	WM17105-ND	3.56	2.85	2.38	88738-8200
2	2090	USB Type 'A-to-B' Full-Rated	WM17103-ND	5.01	4.02	3.35	88732-9200
3	1000	USB Type 'A to Mini-B'	WM5975-ND	16.41	13.13	10.95	59204-9401

Firewire 1394 I/O Connectors

Headers are offered in high temperature plastic for true SMT processing. Full metal shielding design supports ESD protection. Rugged gold plated leaf contacts withstands up to 1500 cycles.

Fig.	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	WM17302-ND	4.61	4.07	2.72	53462-0629
2	WM17303-ND	4.61	4.07	2.72	53460-0629

Fig. 1 – Right Angle Flat Header
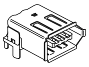

Fig. 2 – Right Angle Upright Header
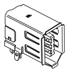

USB and Firewire Connectors

EDAC series 690 USB (Universal Serial Bus) and series 693 (IEEE 1394) connectors are industry-standard data transfer devices used to interconnect computers to peripheral devices such as scanners and printers. A wide variety of unique right angle vertical that minimizes board space. USB products are compatible with asynchronous and isochronous data transfer methods up to 1.2 Mbps and utilize plug and play technology. EDAC manufactures both USB and IEEE 1394 connectors in through-hole or SMT board styles as well as molded cable assemblies for USB A, B, mini-USB and IEEE variations.

Specifications:

• USB 1.1 or USB 2.0 available • **Minimum Mating Cycles:** 1500 per EIA 364-09 • **Insulator Housing:** UL 94V-0 thermoplastic • **Contact Material:** P Bronze (USB), Copper Alloy (1394) • **Contact Plating:** Gold Flash or Gold Plate over nickel • **Contact Resistance:** 30mΩ maximum • **Insulation Resistance:** 100MΩ minimum • **Current Rating:** 1A maximum under 30°C • **Voltage Rating:** 30VAC rms maximum • **DW Voltage:** 750VAC @ 0 at sea level (USB), DC500 (1394) • **Shield Housing:** Copper alloy • **Mate/Unmate:** 35/10 Newtons per EIA 364-13 • **Temperature Range:** -55°C ~ 85°C

Fig. 1
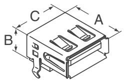

Fig. 2
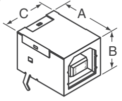

Fig. 3
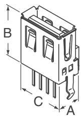

Fig. 4
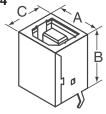

Fig. 5
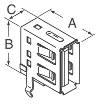

Fig. 6
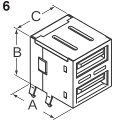

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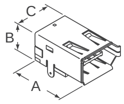

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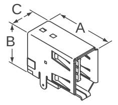

Fig. 9
Dim. in mm
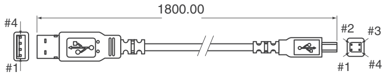

USB Connectors

Fig.	Description	Dim. (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
1	Type 'A' Single, Horizontal Rt. Ang.	14.00	6.99	13.10	151-1080-ND	.81	.72	.58	690-004-621-013
2	Type 'B' Single, Horizontal Rt. Ang.	16.00	10.62	12.04	151-1081-ND	.90	.80	.64	690-004-621-023
3	Type 'A' Single, Vertical Straight	7.62	15.00	14.50	151-1082-ND	.71	.64	.51	690-004-660-013
4	Type 'B' Single, Vertical Straight	12.04	16.00	11.30	151-1083-ND	.74	.66	.53	690-004-660-023
5	Type 'A' Single, Vertical Rt. Angle	14.10	13.15	7.56	151-1084-ND	1.02	.91	.73	690-004-661-013
6	Type 'A' Dual Stacked, Horizontal Right Angle	16.96	15.49	13.10	151-1085-ND	1.46	1.30	1.04	690-008-621-013
	USB Cable Assembly								
9	USB Type 'A'/M to USB Type 'B'/M	—	—	—	151-1079-ND	2.48	2.20	1.76	628-000-943

Firewire Connectors

Fig.	Description	Dim. (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
7	IEEE 1394A Single, Horiz. Rt. Ang.	16.25	8.70	13.50	151-1086-ND	1.15	1.02	.82	693-006-620-003
8	IEEE 1394A Single, Vert. Rt. Ang.	18.00	13.50	5.30	151-1087-ND	1.15	1.02	.82	693-006-621-003

NEW! USB Interconnect System

The USB interconnect system is designed to combine all personal computing interface ports into one connector. This system is plug-and-play, hot pluggable and can handle data rates up to 12 Mbps.

Specifications: • Meets USB Standard • Durability: 1,500 Cycles • Withstanding Voltage: 30 rms • Current Rating: 1A Contact • Low Level Contact Resistance: 30mΩ maximum

Fig. 1
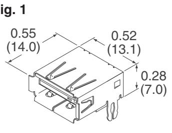

Fig. 2
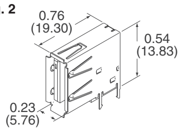

Fig. 3
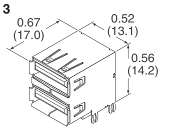

Fig. 4
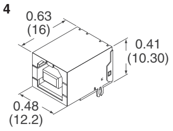

Fig. 5
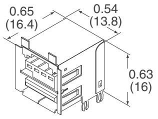

Fig. 6
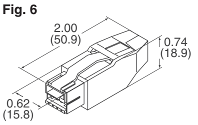

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	Type 'A' Single, Right Angle	609-1045-ND	.84	.42	.36	87520-0010BLF
2	Type 'A' Single, Up-Right	609-1041-ND	.97	.51	.43	73725-0110BLF
3	Type 'A' Dual, Right Angle	609-1040-ND	1.31	.71	.61	72309-8034BLF
4	Type 'B' Single, Right Angle	609-1039-ND	.97	.50	.42	61729-0010BLF
5	USB + Power Receptacle, Right Angle	609-1038-ND	5.12	3.26	2.98	55917-501LF
6	USB + Power Plug, Cable OD= 5.80 mm	609-1042-ND	9.69	6.87	6.32	74233-100LF
	USB + Power Plug, Cable OD= 5.10 mm	609-1043-ND	9.69	6.87	6.32	74233-101LF
	USB + Power Plug, Cable OD= 6.60 mm	609-1044-ND	9.69	6.87	6.32	74233-102LF

tyco Electronics AMP

.050" (1.27mm) Flat Flex Cable Assemblies

.050 (1.27mm) Flat Flex Cable Material: • Insulation: Flame retardant polyester film **Performance Characteristics:** • Current Rating: 1.5 amperes (30AWG equivalent) • Voltage Rating: 300 volts • Temperature Rating: -20°C ~ 105°C • Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1 • Dielectric Strength: 2500V/MIL

Solder Tab to Solder Tab

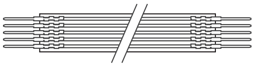

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
4	2 (50.80)	A9AAT-0402E-ND	.98	7.97	58.72
	3 (76.20)	A9AAT-0403E-ND	1.12	9.11	67.12
	4 (101.60)	A9AAT-0404E-ND	1.26	10.25	75.52
	5 (127.00)	A9AAT-0405E-ND	1.40	11.39	83.92
	6 (152.40)	A9AAT-0406E-ND	1.54	12.53	92.32
	8 (203.20)	A9AAT-0408E-ND	1.82	14.81	109.12
5	2 (50.80)	A9AAT-0502E-ND	1.16	9.45	69.62
	3 (76.20)	A9AAT-0503E-ND	1.30	10.62	78.23
	4 (101.60)	A9AAT-0504E-ND	1.45	11.78	86.84
	5 (127.00)	A9AAT-0505E-ND	1.59	12.95	95.45
	6 (152.40)	A9AAT-0506E-ND	1.73	14.12	104.06
	8 (203.20)	A9AAT-0508E-ND	2.02	16.46	121.28
6	2 (50.80)	A9AAT-0602E-ND	1.34	10.93	80.51
	3 (76.20)	A9AAT-0603E-ND	1.49	12.12	89.33
	4 (101.60)	A9AAT-0604E-ND	1.64	13.32	98.15
	5 (127.00)	A9AAT-0605E-ND	1.78	14.52	106.97
	6 (152.40)	A9AAT-0606E-ND	1.93	15.71	115.79
	8 (203.20)	A9AAT-0608E-ND	2.22	18.11	133.43
7	2 (50.80)	A9AAT-0702E-ND	1.52	12.41	91.41
	3 (76.20)	A9AAT-0703E-ND	1.67	13.63	100.44
	4 (101.60)	A9AAT-0704E-ND	1.82	14.86	109.47
	5 (127.00)	A9AAT-0705E-ND	1.98	16.08	118.50
	6 (152.40)	A9AAT-0706E-ND	2.13	17.31	127.53
	8 (203.20)	A9AAT-0708E-ND	2.43	19.76	145.59
8	2 (50.80)	A9AAT-0802E-ND	1.71	13.89	102.31
	3 (76.20)	A9AAT-0803E-ND	1.86	15.14	111.55
	4 (101.60)	A9AAT-0804E-ND	2.01	16.39	120.79
	5 (127.00)	A9AAT-0805E-ND	2.17	17.65	130.03
	6 (152.40)	A9AAT-0806E-ND	2.32	18.90	139.27
	8 (203.20)	A9AAT-0808E-ND	2.63	21.41	157.75
10	2 (50.80)	A9AAT-1002E-ND	2.07	16.84	124.11
	3 (76.20)	A9AAT-1003E-ND	2.23	18.15	133.77
	4 (101.60)	A9AAT-1004E-ND	2.39	19.47	143.43
	5 (127.00)	A9AAT-1005E-ND	2.55	20.78	153.09
	6 (152.40)	A9AAT-1006E-ND	2.71	22.09	162.75
	8 (203.20)	A9AAT-1008E-ND	3.03	24.71	182.07
12	2 (50.80)	A9AAT-1202E-ND	2.44	19.86	146.33
	3 (76.20)	A9AAT-1203E-ND	2.61	21.26	156.62
	4 (101.60)	A9AAT-1204E-ND	2.78	22.65	166.91
	5 (127.00)	A9AAT-1205E-ND	2.95	24.05	177.20
	6 (152.40)	A9AAT-1206E-ND	3.12	25.44	187.49
	8 (203.20)	A9AAT-1208E-ND	3.47	28.24	208.07
17	2 (50.80)	A9AAT-1702E-ND	3.38	27.54	202.92
	3 (76.20)	A9AAT-1703E-ND	3.59	29.22	215.31
	4 (101.60)	A9AAT-1704E-ND	3.80	30.90	227.70
	5 (127.00)	A9AAT-1705E-ND	4.00	32.58	240.09
	6 (152.40)	A9AAT-1706E-ND	4.21	34.27	252.48
	8 (203.20)	A9AAT-1708E-ND	4.62	37.63	277.26
20	2 (50.80)	A9AAT-2002E-ND	3.97	32.32	238.14
	3 (76.20)	A9AAT-2003E-ND	4.21	34.26	252.42
	4 (101.60)	A9AAT-2004E-ND	4.45	36.20	266.70
	5 (127.00)	A9AAT-2005E-ND	4.68	38.13	280.98
	6 (152.40)	A9AAT-2006E-ND	4.92	40.07	295.26
	8 (203.20)	A9AAT-2008E-ND	5.40	43.95	323.82
22	2 (50.80)	A9AAT-2202E-ND	4.36	35.51	261.62
	3 (76.20)	A9AAT-2203E-ND	4.62	37.61	277.16
	4 (101.60)	A9AAT-2204E-ND	4.88	39.72	292.70
	5 (127.00)	A9AAT-2205E-ND	5.14	41.83	308.24
	6 (152.40)	A9AAT-2206E-ND	5.40	43.94	323.78
	8 (203.20)	A9AAT-2208E-ND	5.91	48.16	354.86
25	2 (50.80)	A9AAT-2502E-ND	4.97	40.46	298.10
	3 (76.20)	A9AAT-2503E-ND	5.27	42.91	316.16
	4 (101.60)	A9AAT-2504E-ND	5.57	45.36	334.22
	5 (127.00)	A9AAT-2505E-ND	5.87	47.81	352.28
	6 (152.40)	A9AAT-2506E-ND	6.17	50.26	370.34
	8 (203.20)	A9AAT-2508E-ND	6.77	55.16	406.46

Receptacle Housing to Solder Tab

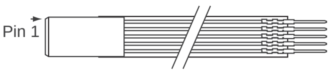

Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated 30μ gold on mating area.

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
4	2 (50.80)	A9BAA-0402E-ND	2.74	22.29	164.22
	3 (76.20)	A9BAA-0403E-ND	2.88	23.43	172.62
	4 (101.60)	A9BAA-0404E-ND	3.02	24.57	181.02
	5 (127.00)	A9BAA-0405E-ND	3.16	25.71	189.42
	6 (152.40)	A9BAA-0406E-ND	3.30	26.85	197.82
	8 (203.20)	A9BAA-0408E-ND	3.58	29.13	214.62
5	2 (50.80)	A9BAA-0502E-ND	3.96	32.23	237.47
	3 (76.20)	A9BAA-0503E-ND	4.10	33.40	246.08
	4 (101.60)	A9BAA-0504E-ND	4.24	34.57	254.69
	5 (127.00)	A9BAA-0505E-ND	4.39	35.73	263.30
	6 (152.40)	A9BAA-0506E-ND	4.53	36.90	271.91
	8 (203.20)	A9BAA-0508E-ND	4.82	39.24	289.13
6	2 (50.80)	A9BAA-0602E-ND	5.30	43.14	317.85
	3 (76.20)	A9BAA-0603E-ND	5.44	44.33	326.67
	4 (101.60)	A9BAA-0604E-ND	5.59	45.53	335.49
	5 (127.00)	A9BAA-0605E-ND	5.74	46.73	344.31
	6 (152.40)	A9BAA-0606E-ND	5.89	47.93	353.13
	8 (203.20)	A9BAA-0608E-ND	6.18	50.32	370.77
7	2 (50.80)	A9BAA-0702E-ND	4.18	34.00	250.54
	3 (76.20)	A9BAA-0703E-ND	4.33	35.23	259.57
	4 (101.60)	A9BAA-0704E-ND	4.48	36.45	268.60
	5 (127.00)	A9BAA-0705E-ND	4.63	37.68	277.63
	6 (152.40)	A9BAA-0706E-ND	4.78	38.90	286.66
	8 (203.20)	A9BAA-0708E-ND	5.08	41.35	304.72
8	2 (50.80)	A9BAA-0802E-ND	4.76	38.76	285.60
	3 (76.20)	A9BAA-0803E-ND	4.91	40.01	294.84
	4 (101.60)	A9BAA-0804E-ND	5.07	41.27	304.08
	5 (127.00)	A9BAA-0805E-ND	5.22	42.52	313.32
	6 (152.40)	A9BAA-0806E-ND	5.38	43.78	322.56
	8 (203.20)	A9BAA-0808E-ND	5.68	46.28	341.04
10	2 (50.80)	A9BAA-1002E-ND	5.50	44.77	329.91
	3 (76.20)	A9BAA-1003E-ND	5.66	46.08	339.57
	4 (101.60)	A9BAA-1004E-ND	5.82	47.40	349.23
	5 (127.00)	A9BAA-1005E-ND	5.98	48.71	358.89
	6 (152.40)	A9BAA-1006E-ND	6.14	50.02	368.55
	8 (203.20)	A9BAA-1008E-ND	6.46	52.64	387.87
17	2 (50.80)	A9BAA-1702E-ND	11.34	92.35	680.46
	3 (76.20)	A9BAA-1703E-ND	11.55	94.03	692.85
	4 (101.60)	A9BAA-1704E-ND	11.75	95.71	705.24
	5 (127.00)	A9BAA-1705E-ND	11.96	97.39	717.63
	6 (152.40)	A9BAA-1706E-ND	12.17	99.07	730.02
	8 (203.20)	A9BAA-1708E-ND	12.58	102.44	754.80
20	2 (50.80)	A9BAA-2002E-ND	10.10	82.22	605.84
	3 (76.20)	A9BAA-2003E-ND	10.34	84.16	620.12
	4 (101.60)	A9BAA-2004E-ND	10.57	86.10	634.40
	5 (127.00)	A9BAA-2005E-ND	10.81	88.04	648.68
	6 (152.40)	A9BAA-2006E-ND	11.05	89.97	662.96
	8 (203.20)	A9BAA-2008E-ND	11.53	93.85	691.52
25	2 (50.80)	A9BAA-2502E-ND	12.55	102.21	753.15
	3 (76.20)	A9BAA-2503E-ND	12.85	104.66	771.21
	4 (101.60)	A9BAA-2504E-ND	13.15	107.12	789.27
	5 (127.00)	A9BAA-2505E-ND	13.46	109.57	807.33
	6 (152.40)	A9BAA-2506E-ND	13.76	112.02	825.39
	8 (203.20)	A9BAA-2508E-ND	14.36	116.92	861.51

Receptacle Housing with Latch to Solder Tab

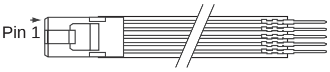

Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated 30μ gold on mating area.

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
4	2 (50.80)	A9CAA-0402E-ND	3.32	27.03	199.14
	3 (76.20)	A9CAA-0403E-ND	3.46	28.17	207.54
	4 (101.60)	A9CAA-0404E-ND	3.60	29.31	215.94
	5 (127.00)	A9CAA-0405E-ND	3.74	30.45	224.34
	6 (152.40)	A9CAA-0406E-ND	3.88	31.59	232.74
	8 (203.20)	A9CAA-0408E-ND	4.16	33.87	249.54
5	2 (50.80)	A9CAA-0502E-ND	3.68	29.98	220.91
	3 (76.20)	A9CAA-0503E-ND	3.83	31.15	229.52
	4 (101.60)	A9CAA-0504E-ND	3.97	32.32	238.13
	5 (127.00)	A9CAA-0505E-ND	4.11	33.49	246.74
	6 (152.40)	A9CAA-0506E-ND	4.26	34.65	255.35
	8 (203.20)	A9CAA-0508E-ND	4.54	36.99	272.57
6	2 (50.80)	A9CAA-0602E-ND	4.04	32.89	242.34
	3 (76.20)	A9CAA-0603E-ND	4.19	34.09	251.16
	4 (101.60)	A9CAA-0604E-ND	4.33	35.28	259.98
	5 (127.00)	A9CAA-0605E-ND	4.48	36.48	268.80
	6 (152.40)	A9CAA-0606E-ND	4.63	37.68	277.62
	8 (203.20)	A9CAA-0608E-ND	4.92	40.07	295.26
8	2 (50.80)	A9CAA-0802E-ND	4.76	38.76	285.60
	3 (76.20)	A9CAA-0803E-ND	4.91	40.01	294.84
	4 (101.60)	A9CAA-0804E-ND	5.07	41.27	304.08
	5 (127.00)	A9CAA-0805E-ND	5.22	42.52	313.32
	6 (152.40)	A9CAA-0806E-ND	5.38	43.78	322.56
	8 (203.20)	A9CAA-0808E-ND	5.68	46.28	341.04
10	2 (50.80)	A9CAA-1002E-ND	5.50	44.77	329.91
	3 (76.20)	A9CAA-1003E-ND	5.66	46.08	339.57
	4 (101.60)	A9CAA-1004E-ND	5.82	47.40	349.23
	5 (127.00)	A9CAA-1005E-ND	5.98	48.71	358.89
	6 (152.40)	A9CAA-1006E-ND	6.14	50.02	368.55
	8 (203.20)	A9CAA-1008E-ND	6.46	52.64	387.87
12	2 (50.80)	A9CAA-1202E-ND	6.26	50.97	375.56
	3 (76.20)	A9CAA-1203E-ND	6.43	52.37	385.85
	4 (101.60)	A9CAA-1204E-ND	6.60	53.76	396.14
	5 (127.00)	A9CAA-1205E-ND	6.77	55.16	406.43
	6 (152.40)	A9CAA-1206E-ND	6.95	56.56	416.72
	8 (203.20)	A9CAA-1208E-ND	7.29	59.35	437.30
17	2 (50.80)	A9CAA-1702E-ND	9.42	76.67	564.94
	3 (76.20)	A9CAA-1703E-ND	9.62	78.35	577.33
	4 (101.60)	A9CAA-1704E-ND	9.83	80.03	589.72
	5 (127.00)	A9CAA-1705E-ND	10.04	81.72	602.11
	6 (152.40)	A9CAA-1706E-ND	10.24	83.40	614.50
	8 (203.20)	A9CAA-1708E-ND	10.65	86.76	639.28
20	2 (50.80)	A9CAA-2002E-ND	10.10	82.22	605.84
	3 (76.20)	A9CAA-2003E-ND	10.34	84.16	620.12
	4 (101.60)	A9CAA-2004E-ND	10.57	86.10	634.40
	5 (127.00)	A9CAA-2005E-ND	10.81	88.04	648.68
	6 (152.40)	A9CAA-2006E-ND	11.05	89.97	662.96
	8 (203.20)	A9CAA-2008E-ND	11.53	93.85	691.52
22	2 (50.80)	A9CAA-2202E-ND	11.63	94.69	697.69
	3 (76.20)	A9CAA-2203E-ND	11.89	96.79	713.23
	4 (101.60)	A9CAA-2204E-ND	12.15	98.90	728.77
	5 (127.00)	A9CAA-2205E-ND	12.41	101.01	744.31
	6 (152.40)	A9CAA-2206E-ND	12.66	103.12	759.85
	8 (203.20)	A9CAA-2208E-ND	13.18	107.34	790.93
25	2 (50.80)	A9CAA-2502E-ND	12.55	102.21	753.16
	3 (76.20)	A9CAA-2503E-ND	12.85	104.67	771.22
	4 (101.60)	A9CAA-2504E-ND	13.15	107.12	789.28
	5 (127.00)	A9CAA-2505E-ND	13.46	109.57	807.34
	6 (152.40)	A9CAA-2506E-ND	13.76	112.02	825.40
	8 (203.20)	A9CAA-2508E-ND	14.36	116.92	861.52

Receptacle Housing to Receptacle Housing

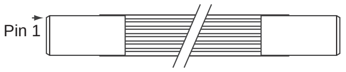

Plain Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts. 30μ gold on mating area.

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
4	2 (50.80)	A9BBA-0402E-ND	4.50	36.61	269.73
	3 (76.20)	A9BBA-0403E-ND	4.64	37.75	278.13
	4 (101.60)	A9BBA-0404E-ND	4.78	38.89	286.53
	5 (127.00)	A9BBA-0405E-ND	4.92	40.03	294.93
	6 (152.40)	A9BBA-0406E-ND	5.06	41.17	303.33
	8 (203.20)	A9BBA-0408E-ND	5.34	43.45	320.13
5	2 (50.80)	A9BBA-0502E-ND	6.76	55.01	405.33
	3 (76.20)	A9BBA-0503E-ND	6.90	56.18	413.94
	4 (101.60)	A9BBA-0504E-ND	7.04	57.35	422.55
	5 (127.00)	A9BBA-0505E-ND	7.19	58.52	431.16
	6 (152.40)	A9BBA-0506E-ND	7.33	59.68	439.77
	8 (203.20)	A9BBA-0508E-ND	7.62	62.02	456.99
6	2 (50.80)	A9BBA-0602E-ND	9.25	75.35	555.19
	3 (76.20)	A9BBA-0603E-ND	9.40	76.54	564.01
	4 (101.60)	A9BBA-0604E-ND	9.55	77.74	572.83
	5 (127.00)	A9BBA-0605E-ND	9.69	78.94	581.65
	6 (152.40)	A9BBA-0606E-ND	9.84	80.14	590.47
	8 (203.20)	A9BBA-0608E-ND	10.14	82.53	608.11
7	2 (50.80)	A9BBA-0702E-ND	6.83	55.60	409.66
	3 (76.20)	A9BBA-0703E-ND	6.98	56.82	418.69
	4 (101.60)	A9BBA-0704E-ND	7.13	58.05	427.72
	5 (127.00)	A9BBA-0705E-ND	7.28	59.27	436.75
	6 (152.40)	A9BBA-0706E-ND	7.43	60.50	445.78
	8 (203.20)	A9BBA-0708E-ND	7.73	62.95	463.84
8	2 (50.80)	A9BBA-0802E-ND	7.81	63.63	468.89
	3 (76.20)	A9BBA-0803E-ND	7.97	64.89	478.13
	4 (101.60)	A9BBA-0804E-ND	8.12	66.14	487.37
	5 (127.00)	A9BBA-0805E-ND	8.28	67.40	496.61
	6 (152.40)	A9BBA-0806E-ND	8.43	68.65	505.85
	8 (203.20)	A9BBA-0808E-ND	8.74	71.16	524.33
10	2 (50.80)	A9BBA-1002E-ND	8.93	72.70	535.71
	3 (76.20)	A9BBA-1003E-ND	9.09	74.01	545.37
	4 (101.60)	A9BBA-1004E-ND	9.25	75.33	555.03
	5 (127.00)	A9BBA-1005E-ND	9.41	76.64	564.69
	6 (152.40)	A9BBA-1006E-ND	9.57	77.95	574.35
	8 (203.20)	A9BBA-1008E-ND	9.89	80.57	593.67
17	2 (50.80)	A9BBA-1702E-ND	19.30	157.16	1157.99
	3 (76.20)	A9BBA-1703E-ND	19.51	158.84	1170.38
	4 (101.60)	A9BBA-1704E-ND	19.71	160.52	1182.77
	5 (127.00)	A9BBA-1705E-ND	19.92	162.20	1195.16
	6 (152.40)	A9BBA-1706E-ND	20.13	163.88	1207.55
	8 (203.20)	A9BBA-1708E-ND	20.54	167.24	1232.33

(Continued)

.050" (1.27mm) Flat Flex Cable Assemblies *(Cont.)*

Receptacle Housing to Receptacle Housing

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
20	2 (50.80)	A9BBA-2002E-ND	16.23	132.12	973.54
	3 (76.20)	A9BBA-2003E-ND	16.46	134.06	987.82
	4 (101.60)	A9BBA-2004E-ND	16.70	136.00	1002.10
	5 (127.00)	A9BBA-2005E-ND	16.94	137.94	1016.38
	6 (152.40)	A9BBA-2006E-ND	17.18	139.88	1030.66
	8 (203.20)	A9BBA-2008E-ND	17.65	143.75	1059.22
25	2 (50.80)	A9BBA-2502E-ND	20.14	163.97	1208.21
	3 (76.20)	A9BBA-2503E-ND	20.44	166.42	1226.27
	4 (101.60)	A9BBA-2504E-ND	20.74	168.87	1244.33
	5 (127.00)	A9BBA-2505E-ND	21.04	171.32	1262.39
	6 (152.40)	A9BBA-2506E-ND	21.34	173.78	1280.45
	8 (203.20)	A9BBA-2508E-ND	21.94	178.68	1316.57

Receptacle Housing with Latch to Receptacle Housing with Latch

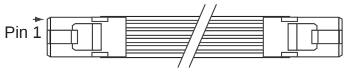

Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts. 30μ gold on mating area.

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
4	2 (50.80)	A9CCA-0402E-ND	5.66	46.08	339.56
	3 (76.20)	A9CCA-0403E-ND	5.80	47.22	347.96
	4 (101.60)	A9CCA-0404E-ND	5.94	48.36	356.36
	5 (127.00)	A9CCA-0405E-ND	6.08	49.50	364.76
	6 (152.40)	A9CCA-0406E-ND	6.22	50.64	373.16
	8 (203.20)	A9CCA-0408E-ND	6.50	52.92	389.96
5	2 (50.80)	A9CCA-0502E-ND	6.20	50.51	372.20
	3 (76.20)	A9CCA-0503E-ND	6.35	51.68	380.81
	4 (101.60)	A9CCA-0504E-ND	6.49	52.85	389.42
	5 (127.00)	A9CCA-0505E-ND	6.63	54.02	398.03
	6 (152.40)	A9CCA-0506E-ND	6.78	55.19	406.64
	8 (203.20)	A9CCA-0508E-ND	7.06	57.52	423.86
6	2 (50.80)	A9CCA-0602E-ND	6.74	54.85	404.16
	3 (76.20)	A9CCA-0603E-ND	6.88	56.05	412.98
	4 (101.60)	A9CCA-0604E-ND	7.03	57.24	421.80
	5 (127.00)	A9CCA-0605E-ND	7.18	58.44	430.62
	6 (152.40)	A9CCA-0606E-ND	7.32	59.64	439.44
	8 (203.20)	A9CCA-0608E-ND	7.62	62.03	457.08
8	2 (50.80)	A9CCA-0802E-ND	7.81	63.64	468.89
	3 (76.20)	A9CCA-0803E-ND	7.97	64.89	478.13
	4 (101.60)	A9CCA-0804E-ND	8.12	66.14	487.37
	5 (127.00)	A9CCA-0805E-ND	8.28	67.40	496.61
	6 (152.40)	A9CCA-0806E-ND	8.43	68.65	505.85
	8 (203.20)	A9CCA-0808E-ND	8.74	71.16	524.33
10	2 (50.80)	A9CCA-1002E-ND	8.93	72.70	535.71
	3 (76.20)	A9CCA-1003E-ND	9.09	74.01	545.37
	4 (101.60)	A9CCA-1004E-ND	9.25	75.33	555.03
	5 (127.00)	A9CCA-1005E-ND	9.41	76.64	564.69
	6 (152.40)	A9CCA-1006E-ND	9.57	77.95	574.35
	8 (203.20)	A9CCA-1008E-ND	9.89	80.57	593.67
12	2 (50.80)	A9CCA-1202E-ND	10.08	82.08	604.80
	3 (76.20)	A9CCA-1203E-ND	10.25	83.48	615.09
	4 (101.60)	A9CCA-1204E-ND	10.42	84.87	625.38
	5 (127.00)	A9CCA-1205E-ND	10.59	86.27	635.67
	6 (152.40)	A9CCA-1206E-ND	10.77	87.67	645.96
	8 (203.20)	A9CCA-1208E-ND	11.11	90.46	666.54
17	2 (50.80)	A9CCA-1702E-ND	15.45	125.80	926.97
	3 (76.20)	A9CCA-1703E-ND	15.66	127.48	939.36
	4 (101.60)	A9CCA-1704E-ND	15.86	129.17	951.75
	5 (127.00)	A9CCA-1705E-ND	16.07	130.85	964.14
	6 (152.40)	A9CCA-1706E-ND	16.28	132.53	976.53
	8 (203.20)	A9CCA-1708E-ND	16.69	135.89	1001.31
20	2 (50.80)	A9CCA-2002E-ND	16.23	132.12	973.54
	3 (76.20)	A9CCA-2003E-ND	16.46	134.06	987.82
	4 (101.60)	A9CCA-2004E-ND	16.70	136.00	1002.10
	5 (127.00)	A9CCA-2005E-ND	16.94	137.94	1016.38
	6 (152.40)	A9CCA-2006E-ND	17.18	139.88	1030.66
	8 (203.20)	A9CCA-2008E-ND	17.65	143.75	1059.22
22	2 (50.80)	A9CCA-2202E-ND	18.90	153.87	1133.75
	3 (76.20)	A9CCA-2203E-ND	19.15	155.98	1149.29
	4 (101.60)	A9CCA-2204E-ND	19.41	158.08	1164.83
	5 (127.00)	A9CCA-2205E-ND	19.67	160.19	1180.37
	6 (152.40)	A9CCA-2206E-ND	19.93	162.30	1195.91
	8 (203.20)	A9CCA-2208E-ND	20.45	166.52	1226.99
25	2 (50.80)	A9CCA-2502E-ND	20.14	163.97	1208.22
	3 (76.20)	A9CCA-2503E-ND	20.44	166.42	1226.28
	4 (101.60)	A9CCA-2504E-ND	20.74	168.87	1244.34
	5 (127.00)	A9CCA-2505E-ND	21.04	171.33	1262.40
	6 (152.40)	A9CCA-2506E-ND	21.34	173.78	1280.46
	8 (203.20)	A9CCA-2508E-ND	21.94	178.68	1316.58

.100" (2.54mm) Flat Flex Cable Assemblies

.100 (2.54mm) Flat Flex Cable Material: • Conductors: Un-plated copper per QQ-C-502 • Insulation: Flame retardant polyester film **Performance Characteristics:** • Current Rating: 2 amperes (28AWG equivalent) • Voltage Rating: 300 volts • Temperature Rating: -20°C ~ 105°C • Insulation Resistance: 5000 megohms (min.) • Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1

Solder Tab to Solder Tab

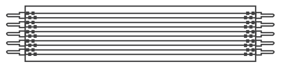

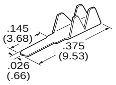

Solder Tab pin

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9AAT-0202F-ND	.67	5.49	40.47
	3 (76.20)	A9AAT-0203F-ND	.79	6.43	47.37
	4 (101.60)	A9AAT-0204F-ND	.90	7.36	54.27
	5 (127.00)	A9AAT-0205F-ND	1.02	8.30	61.17
	6 (152.40)	A9AAT-0206F-ND	1.13	9.24	68.07
	8 (203.20)	A9AAT-0208F-ND	1.36	11.11	81.86
3	2 (50.80)	A9AAT-0302F-ND	.88	7.13	52.56
	3 (76.20)	A9AAT-0303F-ND	1.00	8.12	59.84
	4 (101.60)	A9AAT-0304F-ND	1.12	9.11	67.12
	5 (127.00)	A9AAT-0305F-ND	1.24	10.10	74.39
	6 (152.40)	A9AAT-0306F-ND	1.36	11.08	81.67
	8 (203.20)	A9AAT-0308F-ND	1.60	13.06	96.22
4	2 (50.80)	A9AAT-0402F-ND	1.05	8.59	63.27
	3 (76.20)	A9AAT-0403F-ND	1.18	9.61	70.83
	4 (101.60)	A9AAT-0404F-ND	1.31	10.64	78.39
	5 (127.00)	A9AAT-0405F-ND	1.43	11.66	85.95
	6 (152.40)	A9AAT-0406F-ND	1.56	12.69	93.51
	8 (203.20)	A9AAT-0408F-ND	1.81	14.74	108.63
5	2 (50.80)	A9AAT-0502F-ND	1.21	9.89	72.86
	3 (76.20)	A9AAT-0503F-ND	1.35	10.95	80.71
	4 (101.60)	A9AAT-0504F-ND	1.48	12.02	88.55
	5 (127.00)	A9AAT-0505F-ND	1.61	13.08	96.39
	6 (152.40)	A9AAT-0506F-ND	1.74	14.15	104.24
	8 (203.20)	A9AAT-0508F-ND	2.00	16.28	119.92
6	2 (50.80)	A9AAT-0602F-ND	1.38	11.23	82.76
	3 (76.20)	A9AAT-0603F-ND	1.53	12.42	91.55
	4 (101.60)	A9AAT-0604F-ND	1.67	13.62	100.33
	5 (127.00)	A9AAT-0605F-ND	1.82	14.81	109.12
	6 (152.40)	A9AAT-0606F-ND	1.97	16.00	117.91
	8 (203.20)	A9AAT-0608F-ND	2.26	18.39	135.49
8	2 (50.80)	A9AAT-0802F-ND	1.74	14.13	104.11
	3 (76.20)	A9AAT-0803F-ND	1.91	15.59	114.88
	4 (101.60)	A9AAT-0804F-ND	2.09	17.05	125.65
	5 (127.00)	A9AAT-0805F-ND	2.27	18.51	136.42
	6 (152.40)	A9AAT-0806F-ND	2.45	19.98	147.20
	8 (203.20)	A9AAT-0808F-ND	2.81	22.90	168.74
9	2 (50.80)	A9AAT-0902F-ND	1.92	15.62	115.07
	3 (76.20)	A9AAT-0903F-ND	2.14	17.44	128.49
	4 (101.60)	A9AAT-0904F-ND	2.37	19.26	141.91
	5 (127.00)	A9AAT-0905F-ND	2.59	21.08	155.33
	6 (152.40)	A9AAT-0906F-ND	2.81	22.90	168.75
	8 (203.20)	A9AAT-0908F-ND	3.26	26.54	195.59
10	2 (50.80)	A9AAT-1002F-ND	2.01	16.36	120.54
	3 (76.20)	A9AAT-1003F-ND	2.24	18.22	134.24
	4 (101.60)	A9AAT-1004F-ND	2.47	20.08	147.95
	5 (127.00)	A9AAT-1005F-ND	2.69	21.94	161.65
	6 (152.40)	A9AAT-1006F-ND	2.92	23.80	175.35
	8 (203.20)	A9AAT-1008F-ND	3.38	27.52	202.76
11	2 (50.80)	A9AAT-1102F-ND	2.10	17.07	125.78
	3 (76.20)	A9AAT-1103F-ND	2.33	18.97	139.76
	4 (101.60)	A9AAT-1104F-ND	2.56	20.87	153.75
	5 (127.00)	A9AAT-1105F-ND	2.80	22.76	167.74
	6 (152.40)	A9AAT-1106F-ND	3.03	24.66	181.72
	8 (203.20)	A9AAT-1108F-ND	3.49	28.46	209.69
12	2 (50.80)	A9AAT-1202F-ND	2.41	19.58	144.31
	3 (76.20)	A9AAT-1203F-ND	2.72	22.14	163.11
	4 (101.60)	A9AAT-1204F-ND	3.03	24.69	181.92
	5 (127.00)	A9AAT-1205F-ND	3.35	27.24	200.72
	6 (152.40)	A9AAT-1206F-ND	3.66	29.79	219.53
	8 (203.20)	A9AAT-1208F-ND	4.29	34.90	257.14
13	2 (50.80)	A9AAT-1302F-ND	2.56	20.87	153.77
	3 (76.20)	A9AAT-1303F-ND	2.88	23.46	172.86
	4 (101.60)	A9AAT-1304F-ND	3.20	26.05	191.94
	5 (127.00)	A9AAT-1305F-ND	3.52	28.64	211.03
	6 (152.40)	A9AAT-1306F-ND	3.84	31.23	230.12
	8 (203.20)	A9AAT-1308F-ND	4.47	36.41	268.30
14	2 (50.80)	A9AAT-1402F-ND	2.72	22.15	163.22
	3 (76.20)	A9AAT-1403F-ND	3.04	24.78	182.60
	4 (101.60)	A9AAT-1404F-ND	3.37	27.41	201.97
	5 (127.00)	A9AAT-1405F-ND	3.69	30.04	221.34
	6 (152.40)	A9AAT-1406F-ND	4.01	32.67	240.71
	8 (203.20)	A9AAT-1408F-ND	4.66	37.93	279.46
15	2 (50.80)	A9AAT-1502F-ND	2.88	23.46	172.87
	3 (76.20)	A9AAT-1503F-ND	3.21	26.14	192.62
	4 (101.60)	A9AAT-1504F-ND	3.54	28.82	212.37
	5 (127.00)	A9AAT-1505F-ND	3.87	31.50	232.12
	6 (152.40)	A9AAT-1506F-ND	4.20	34.18	251.87
	8 (203.20)	A9AAT-1508F-ND	4.86	39.54	291.38
16	2 (50.80)	A9AAT-1602F-ND	3.04	24.74	182.33
	3 (76.20)	A9AAT-1603F-ND	3.37	27.46	202.36
	4 (101.60)	A9AAT-1604F-ND	3.71	30.18	222.40
	5 (127.00)	A9AAT-1605F-ND	4.04	32.90	242.43
	6 (152.40)	A9AAT-1606F-ND	4.37	35.62	262.47
	8 (203.20)	A9AAT-1608F-ND	5.04	41.06	302.53
18	2 (50.80)	A9AAT-1802F-ND	3.80	30.95	228.06
	3 (76.20)	A9AAT-1803F-ND	4.37	35.57	262.06
	4 (101.60)	A9AAT-1804F-ND	4.93	40.18	296.07
	5 (127.00)	A9AAT-1805F-ND	5.50	44.80	330.08
	6 (152.40)	A9AAT-1806F-ND	6.07	49.41	364.08
	8 (203.20)	A9AAT-1808F-ND	7.20	58.64	432.09
20	2 (50.80)	A9AAT-2002F-ND	4.12	33.55	247.21
	3 (76.20)	A9AAT-2003F-ND	4.70	38.26	281.90
	4 (101.60)	A9AAT-2004F-ND	5.28	42.97	316.60
	5 (127.00)	A9AAT-2005F-ND	5.85	47.67	351.29
	6 (152.40)	A9AAT-2006F-ND	6.43	52.38	385.98
	8 (203.20)	A9AAT-2008F-ND	7.59	61.80	455.36

Receptacle Housing to Solder Tab

Mates with single row .025 (.64mm) square pin, .100 (2.54mm) headers.

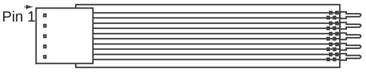

Housing Contacts — Material and Finish: Phosphor bronze; plated gold duplex or bright tin-lead overall. Duplex plated

A9BAG-□□□□F-ND 15μ gold or 30μ gold on mating area.
A9BAA-□□□□F-ND = 30μ gold

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing 1	10	100
2	2 (50.80)	A9BAG-0202F-ND	2.05	16.69	123.01
	3 (76.20)	A9BAG-0203F-ND	2.17	17.63	129.90
	4 (101.60)	A9BAG-0204F-ND	2.28	18.57	136.80
	5 (127.00)	A9BAG-0205F-ND	2.40	19.50	143.70
	6 (152.40)	A9BAG-0206F-ND	2.51	20.44	150.60
	8 (203.20)	A9BAG-0208F-ND	2.74	22.32	164.43
3	2 (50.80)	A9BAG-0302F-ND	2.37	19.27	141.97
	3 (76.20)	A9BAG-0303F-ND	2.49	20.26	149.25
	4 (101.60)	A9BAG-0304F-ND	2.61	21.24	156.53
	5 (127.00)	A9BAG-0305F-ND	2.73	22.23	163.80
	6 (152.40)	A9BAG-0306F-ND	2.85	23.22	171.08
	8 (203.20)	A9BAG-0308F-ND	3.09	25.19	185.63
4	2 (50.80)	A9BAG-0402F-ND	2.67	21.77	160.43
	3 (76.20)	A9BAG-0403F-ND	2.80	22.80	167.99
	4 (101.60)	A9BAG-0404F-ND	2.93	23.82	175.55
	5 (127.00)	A9BAG-0405F-ND	3.05	24.85	183.11
	6 (152.40)	A9BAG-0406F-ND	3.18	25.88	190.67
	8 (203.20)	A9BAG-0408F-ND	3.43	27.93	205.79
5	2 (50.80)	A9BAG-0502F-ND	2.97	24.15	177.97
	3 (76.20)	A9BAG-0503F-ND	3.10	25.22	185.81
	4 (101.60)	A9BAG-0504F-ND	3.23	26.28	193.66
	5 (127.00)	A9BAG-0505F-ND	3.36	27.35	201.50
	6 (152.40)	A9BAG-0506F-ND	3.49	28.41	209.34
	8 (203.20)	A9BAG-0508F-ND	3.75	30.54	225.03
6	2 (50.80)	A9BAG-0602F-ND	3.27	26.64	196.30
	3 (76.20)	A9BAG-0603F-ND	3.42	27.83	205.09
	4 (101.60)	A9BAG-0604F-ND	3.56	29.03	213.87
	5 (127.00)	A9BAG-0605F-ND	3.71	30.22	222.66
	6 (152.40)	A9BAG-0606F-ND	3.86	31.41	231.45
	8 (203.20)	A9BAG-0608F-ND	4.15	33.80	249.03
8	2 (50.80)	A9BAG-0802F-ND	3.90	31.78	234.14
	3 (76.20)	A9BAG-0803F-ND	4.08	33.24	244.91
	4 (101.60)	A9BAG-0804F-ND	4.26	34.70	255.68
	5 (127.00)	A9BAG-0805F-ND	4.44	36.16	266.45
	6 (152.40)	A9BAG-0806F-ND	4.62	37.62	277.23
	8 (203.20)	A9BAG-0808F-ND	4.98	40.56	298.83
9	2 (50.80)	A9BAG-0902F-ND	4.26	34.70	255.65
	3 (76.20)	A9BAG-0903F-ND	4.48	36.52	269.07
	4 (101.60)	A9BAG-0904F-ND	4.71	38.34	282.49
	5 (127.00)	A9BAG-0905F-ND	4.93	40.16	295.91
	6 (152.40)	A9BAG-0906F-ND	5.16	41.98	309.33
	8 (203.20)	A9BAG-0908F-ND	5.60	45.62	336.17
10	2 (50.80)	A9BAG-1002F-ND	4.52	36.81	271.22
	3 (76.20)	A9BAG-1003F-ND	4.75	38.67	284.92
	4 (101.60)	A9BAG-1004F-ND	4.98	40.53	298.62
	5 (127.00)	A9BAG-1005F-ND	5.21	42.39	312.32
	6 (152.40)	A9BAG-1006F-ND	5.43	44.25	326.03
	8 (203.20)	A9BAG-1008F-ND	5.89	47.97	353.43
11	2 (50.80)	A9BAG-1102F-ND	4.78	38.91	286.73
	3 (76.20)	A9BAG-1103F-ND	5.01	40.81	300.72
	4 (101.60)	A9BAG-1104F-ND	5.25	42.71	314.70
	5 (127.00)	A9BAG-1105F-ND	5.48	44.61	328.69
	6 (152.40)	A9BAG-1106F-ND	5.71	46.51	342.68
	8 (203.20)	A9BAG-1108F-ND	6.18	50.30	370.65
12	2 (50.80)	A9BAG-1202F-ND	5.25	42.72	314.81
	3 (76.20)	A9BAG-1203F-ND	5.56	45.28	333.61
	4 (101.60)	A9BAG-1204F-ND	5.87	47.83	352.42
	5 (127.00)	A9BAG-1205F-ND	6.19	50.38	371.22
	6 (152.40)	A9BAG-1206F-ND	6.50	52.93	390.03
	8 (203.20)	A9BAG-1208F-ND	7.13	58.04	427.64
13	2 (50.80)	A9BAG-1302F-ND	5.54	45.14	332.59
	3 (76.20)	A9BAG-1303F-ND	5.86	47.73	351.68
	4 (101.60)	A9BAG-1304F-ND	6.18	50.32	370.77
	5 (127.00)	A9BAG-1305F-ND	6.50	52.91	389.86
	6 (152.40)	A9BAG-1306F-ND	6.82	55.50	408.95
	8 (203.20)	A9BAG-1308F-ND	7.45	60.68	447.13
14	2 (50.80)	A9BAG-1402F-ND	5.84	47.52	350.17
	3 (76.20)	A9BAG-1403F-ND	6.16	50.15	369.54
	4 (101.60)	A9BAG-1404F-ND	6.48	52.78	388.91
	5 (127.00)	A9BAG-1405F-ND	6.80	55.41	408.29
	6 (152.40)	A9BAG-1406F-ND	7.13	58.04	427.66
	8 (203.20)	A9BAG-1408F-ND	7.77	63.30	466.41
15	2 (50.80)	A9BAG-1502F-ND	6.64	54.10	398.64
	3 (76.20)	A9BAG-1503F-ND	6.97	56.78	418.39
	4 (101.60)	A9BAG-1504F-ND	7.30	59.46	438.14
	5 (127.00)	A9BAG-1505F-ND	7.63	62.14	457.89
	6 (152.40)	A9BAG-1506F-ND	7.96	64.82	477.64
	8 (203.20)	A9BAG-1508F-ND	8.62	70.18	517.14
16	2 (50.80)	A9BAG-1602F-ND	6.73	54.83	403.98
	3 (76.20)	A9BAG-1603F-ND	7.07	57.54	424.01
	4 (101.60)	A9BAG-1604F-ND	7.40	60.26	444.05
	5 (127.00)	A9BAG-1605F-ND	7.73	62.98	464.08
	6 (152.40)	A9BAG-1606F-ND	8.07	65.70	484.11
	8 (203.20)	A9BAG-1608F-ND	8.74	71.14	524.18
18	2 (50.80)	A9BAG-1802F-ND	8.27	67.31	495.96
	3 (76.20)	A9BAG-1803F-ND	8.83	71.92	529.96
	4 (101.60)	A9BAG-1804F-ND	9.40	76.54	563.97
	5 (127.00)	A9BAG-1805F-ND	9.97	81.15	597.98
	6 (152.40)	A9BAG-1806F-ND	10.53	85.77	631.98
	8 (203.20)	A9BAG-1808F-ND	11.67	95.00	699.99
20	2 (50.80)	A9BAG-2002F-ND	8.68	70.70	520.98
	3 (76.20)	A9BAG-2003F-ND	9.26	75.41	555.67
	4 (101.60)	A9BAG-2004F-ND	9.84	80.12	590.36
	5 (127.00)	A9BAG-2005F-ND	10.42	84.83	625.05
	6 (152.40)	A9BAG-2006F-ND	11.00	89.54	659.74
	8 (203.20)	A9BAG-2008F-ND	12.15	98.95	729.13

Call for complete part number and pricing.

(Continued)

.100" (2.54mm) Flat Flex Cable Assemblies *(Cont.)*

Receptacle Housing to Receptacle Housing

Mates with single row .025 (.64mm) square pin, .100 (2.54mm) headers.

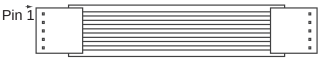

Plain Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.

A9BBG-□□□□F-ND = 15μ gold, A9BBA-□□□□F-ND = 30μ gold

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing		
			1	10	100
2	2 (50.80)	A9BBG-0202F-ND	3.43	27.89	205.54
	3 (76.20)	A9BBG-0203F-ND	3.54	28.83	212.44
	4 (101.60)	A9BBG-0204F-ND	3.66	29.77	219.34
	5 (127.00)	A9BBG-0205F-ND	3.77	30.70	226.24
	6 (152.40)	A9BBG-0206F-ND	3.89	31.64	233.13
	8 (203.20)	A9BBG-0208F-ND	4.12	33.51	246.93
3	2 (50.80)	A9BBG-0302F-ND	3.86	31.40	231.39
	3 (76.20)	A9BBG-0303F-ND	3.98	32.39	238.66
	4 (101.60)	A9BBG-0304F-ND	4.10	33.38	245.94
	5 (127.00)	A9BBG-0305F-ND	4.22	34.37	253.22
	6 (152.40)	A9BBG-0306F-ND	4.34	35.35	260.49
	8 (203.20)	A9BBG-0308F-ND	4.58	37.33	275.05
4	2 (50.80)	A9BBG-0402F-ND	4.29	34.96	257.59
	3 (76.20)	A9BBG-0403F-ND	4.42	35.98	265.15
	4 (101.60)	A9BBG-0404F-ND	4.55	37.01	272.71
	5 (127.00)	A9BBG-0405F-ND	4.67	38.04	280.27
	6 (152.40)	A9BBG-0406F-ND	4.80	39.06	287.83
	8 (203.20)	A9BBG-0408F-ND	5.05	41.11	302.95
5	2 (50.80)	A9BBG-0502F-ND	4.72	38.42	283.08
	3 (76.20)	A9BBG-0503F-ND	4.85	39.48	290.92
	4 (101.60)	A9BBG-0504F-ND	4.98	40.55	298.76
	5 (127.00)	A9BBG-0505F-ND	5.11	41.61	306.61
	6 (152.40)	A9BBG-0506F-ND	5.24	42.68	314.45
	8 (203.20)	A9BBG-0508F-ND	5.50	44.80	330.14
6	2 (50.80)	A9BBG-0602F-ND	5.16	42.05	309.84
	3 (76.20)	A9BBG-0603F-ND	5.31	43.24	318.63
	4 (101.60)	A9BBG-0604F-ND	5.46	44.43	327.42
	5 (127.00)	A9BBG-0605F-ND	5.60	45.63	336.20
	6 (152.40)	A9BBG-0606F-ND	5.75	46.82	344.99
	8 (203.20)	A9BBG-0608F-ND	6.04	49.21	362.57
8	2 (50.80)	A9BBG-0802F-ND	6.07	49.42	364.17
	3 (76.20)	A9BBG-0803F-ND	6.25	50.88	374.94
	4 (101.60)	A9BBG-0804F-ND	6.43	52.35	385.71
	5 (127.00)	A9BBG-0805F-ND	6.61	53.81	396.48
	6 (152.40)	A9BBG-0806F-ND	6.79	55.27	407.26
	8 (203.20)	A9BBG-0808F-ND	7.15	58.19	428.80
9	2 (50.80)	A9BBG-0902F-ND	6.60	53.77	396.23
	3 (76.20)	A9BBG-0903F-ND	6.83	55.59	409.65
	4 (101.60)	A9BBG-0904F-ND	7.05	57.42	423.07
	5 (127.00)	A9BBG-0905F-ND	7.27	59.24	436.49
	6 (152.40)	A9BBG-0906F-ND	7.50	61.06	449.90
	8 (203.20)	A9BBG-0908F-ND	7.95	64.70	476.74
10	2 (50.80)	A9BBG-1002F-ND	7.03	57.26	421.89
	3 (76.20)	A9BBG-1003F-ND	7.26	59.12	435.59
	4 (101.60)	A9BBG-1004F-ND	7.49	60.98	449.30
	5 (127.00)	A9BBG-1005F-ND	7.72	62.84	463.00
	6 (152.40)	A9BBG-1006F-ND	7.95	64.70	476.70
	8 (203.20)	A9BBG-1008F-ND	8.40	68.41	504.11
11	2 (50.80)	A9BBG-1102F-ND	7.46	60.76	447.69
	3 (76.20)	A9BBG-1103F-ND	7.69	62.66	461.67
	4 (101.60)	A9BBG-1104F-ND	7.93	64.55	475.66
	5 (127.00)	A9BBG-1105F-ND	8.16	66.45	489.64
	6 (152.40)	A9BBG-1106F-ND	8.39	68.35	503.63
	8 (203.20)	A9BBG-1108F-ND	8.86	72.15	531.60
12	2 (50.80)	A9BBG-1202F-ND	8.09	65.86	485.31
	3 (76.20)	A9BBG-1203F-ND	8.40	68.42	504.11
	4 (101.60)	A9BBG-1204F-ND	8.72	70.97	522.92
	5 (127.00)	A9BBG-1205F-ND	9.03	73.52	541.72
	6 (152.40)	A9BBG-1206F-ND	9.34	76.07	560.53
	8 (203.20)	A9BBG-1208F-ND	9.97	81.18	598.14
13	2 (50.80)	A9BBG-1302F-ND	8.52	69.41	511.42
	3 (76.20)	A9BBG-1303F-ND	8.84	72.00	530.51
	4 (101.60)	A9BBG-1304F-ND	9.16	74.59	549.60
	5 (127.00)	A9BBG-1305F-ND	9.48	77.18	568.68
	6 (152.40)	A9BBG-1306F-ND	9.80	79.77	587.77
	8 (203.20)	A9BBG-1308F-ND	10.43	84.95	625.95
14	2 (50.80)	A9BBG-1402F-ND	8.95	72.89	537.11
	3 (76.20)	A9BBG-1403F-ND	9.27	75.52	556.49
	4 (101.60)	A9BBG-1404F-ND	9.60	78.15	575.86
	5 (127.00)	A9BBG-1405F-ND	9.92	80.78	595.23
	6 (152.40)	A9BBG-1406F-ND	10.24	83.41	614.60
	8 (203.20)	A9BBG-1408F-ND	10.89	88.67	653.35
15	2 (50.80)	A9BBG-1502F-ND	10.41	84.74	624.41
	3 (76.20)	A9BBG-1503F-ND	10.74	87.42	644.16
	4 (101.60)	A9BBG-1504F-ND	11.07	90.10	663.91
	5 (127.00)	A9BBG-1505F-ND	11.39	92.78	683.66
	6 (152.40)	A9BBG-1506F-ND	11.72	95.46	703.41
	8 (203.20)	A9BBG-1508F-ND	12.38	100.82	742.91
16	2 (50.80)	A9BBG-1602F-ND	10.43	84.91	625.62
	3 (76.20)	A9BBG-1603F-ND	10.76	87.62	645.66
	4 (101.60)	A9BBG-1604F-ND	11.09	90.34	665.69
	5 (127.00)	A9BBG-1605F-ND	11.43	93.06	685.73
	6 (152.40)	A9BBG-1606F-ND	11.76	95.78	705.76
	8 (203.20)	A9BBG-1608F-ND	12.43	101.22	745.83
18	2 (50.80)	A9BBG-1802F-ND	12.73	103.67	763.86
	3 (76.20)	A9BBG-1803F-ND	13.30	108.28	797.86
	4 (101.60)	A9BBG-1804F-ND	13.86	112.90	831.87
	5 (127.00)	A9BBG-1805F-ND	14.43	117.51	865.87
	6 (152.40)	A9BBG-1806F-ND	15.00	122.13	899.88
	8 (203.20)	A9BBG-1808F-ND	16.13	131.36	967.89
20	2 (50.80)	A9BBG-2002F-ND	13.25	107.86	794.74
	3 (76.20)	A9BBG-2003F-ND	13.82	112.57	829.43
	4 (101.60)	A9BBG-2004F-ND	14.40	117.27	864.12
	5 (127.00)	A9BBG-2005F-ND	14.98	121.98	898.82
	6 (152.40)	A9BBG-2006F-ND	15.56	126.69	933.51
	8 (203.20)	A9BBG-2008F-ND	16.71	136.11	1002.89

Call for complete part number and pricing.

Receptacle Housing with Latch to Solder Tab

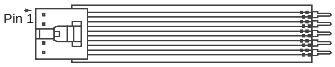

Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.

A9CAG-□□□□F-ND = 15μ gold, A9CAA-□□□□F-ND = 30μ gold

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing		
			1	10	100
2	2 (50.80)	A9CAG-0202F-ND	2.24	18.21	134.16
	3 (76.20)	A9CAG-0203F-ND	2.35	19.14	141.06
	4 (101.60)	A9CAG-0204F-ND	2.47	20.08	147.96
	5 (127.00)	A9CAG-0205F-ND	2.58	21.02	154.85
	6 (152.40)	A9CAG-0206F-ND	2.70	21.95	161.75
	8 (203.20)	A9CAG-0208F-ND	2.93	23.82	175.55
3	2 (50.80)	A9CAG-0302F-ND	2.56	20.82	153.41
	3 (76.20)	A9CAG-0303F-ND	2.68	21.81	160.69
	4 (101.60)	A9CAG-0304F-ND	2.80	22.80	167.97
	5 (127.00)	A9CAG-0305F-ND	2.92	23.78	175.24
	6 (152.40)	A9CAG-0306F-ND	3.04	24.77	182.52
	8 (203.20)	A9CAG-0308F-ND	3.28	26.75	197.07
4	2 (50.80)	A9CAG-0402F-ND	2.87	23.33	171.90
	3 (76.20)	A9CAG-0403F-ND	2.99	24.36	179.46
	4 (101.60)	A9CAG-0404F-ND	3.12	25.38	187.02
	5 (127.00)	A9CAG-0405F-ND	3.24	26.41	194.58
	6 (152.40)	A9CAG-0406F-ND	3.37	27.43	202.14
	8 (203.20)	A9CAG-0408F-ND	3.62	29.49	217.26
5	2 (50.80)	A9CAG-0502F-ND	3.17	25.78	189.97
	3 (76.20)	A9CAG-0503F-ND	3.30	26.85	197.82
	4 (101.60)	A9CAG-0504F-ND	3.43	27.91	205.66
	5 (127.00)	A9CAG-0505F-ND	3.56	28.98	213.50
	6 (152.40)	A9CAG-0506F-ND	3.69	30.04	221.35
	8 (203.20)	A9CAG-0508F-ND	3.95	32.17	237.03
6	2 (50.80)	A9CAG-0602F-ND	3.48	28.30	208.56
	3 (76.20)	A9CAG-0603F-ND	3.62	29.50	217.35
	4 (101.60)	A9CAG-0604F-ND	3.77	30.69	226.14
	5 (127.00)	A9CAG-0605F-ND	3.92	31.88	234.93
	6 (152.40)	A9CAG-0606F-ND	4.06	33.08	243.72
	8 (203.20)	A9CAG-0608F-ND	4.35	35.46	261.29
8	2 (50.80)	A9CAG-0802F-ND	4.12	33.52	246.96
	3 (76.20)	A9CAG-0803F-ND	4.30	34.98	257.73
	4 (101.60)	A9CAG-0804F-ND	4.48	36.44	268.50
	5 (127.00)	A9CAG-0805F-ND	4.65	37.90	279.27
	6 (152.40)	A9CAG-0806F-ND	4.83	39.36	290.05
	8 (203.20)	A9CAG-0808F-ND	5.19	42.29	311.64
9	2 (50.80)	A9CAG-0902F-ND	4.48	36.49	268.87
	3 (76.20)	A9CAG-0903F-ND	4.70	38.31	282.29
	4 (101.60)	A9CAG-0904F-ND	4.93	40.13	295.71
	5 (127.00)	A9CAG-0905F-ND	5.15	41.95	309.13
	6 (152.40)	A9CAG-0906F-ND	5.38	43.77	322.55
	8 (203.20)	A9CAG-0908F-ND	5.82	47.42	349.38
10	2 (50.80)	A9CAG-1002F-ND	4.75	38.64	284.71
	3 (76.20)	A9CAG-1003F-ND	4.97	40.50	298.41
	4 (101.60)	A9CAG-1004F-ND	5.20	42.36	312.11
	5 (127.00)	A9CAG-1005F-ND	5.43	44.22	325.82
	6 (152.40)	A9CAG-1006F-ND	5.66	46.08	339.52
	8 (203.20)	A9CAG-1008F-ND	6.12	49.80	366.92
11	2 (50.80)	A9CAG-1102F-ND	5.27	42.93	316.34
	3 (76.20)	A9CAG-1103F-ND	5.51	44.83	330.33
	4 (101.60)	A9CAG-1104F-ND	5.74	46.73	344.31
	5 (127.00)	A9CAG-1105F-ND	5.97	48.63	358.30
	6 (152.40)	A9CAG-1106F-ND	6.20	50.52	372.28
	8 (203.20)	A9CAG-1108F-ND	6.67	54.32	400.26
12	2 (50.80)	A9CAG-1202F-ND	5.48	44.66	329.07
	3 (76.20)	A9CAG-1203F-ND	5.80	47.21	347.88
	4 (101.60)	A9CAG-1204F-ND	6.11	49.76	366.68
	5 (127.00)	A9CAG-1205F-ND	6.42	52.32	385.49
	6 (152.40)	A9CAG-1206F-ND	6.74	54.87	404.29
	8 (203.20)	A9CAG-1208F-ND	7.37	59.97	441.90
13	2 (50.80)	A9CAG-1302F-ND	6.07	49.39	363.91
	3 (76.20)	A9CAG-1303F-ND	6.38	51.98	383.00
	4 (101.60)	A9CAG-1304F-ND	6.70	54.57	402.09
	5 (127.00)	A9CAG-1305F-ND	7.02	57.16	421.18
	6 (152.40)	A9CAG-1306F-ND	7.34	59.75	440.27
	8 (203.20)	A9CAG-1308F-ND	7.97	64.93	478.44
14	2 (50.80)	A9CAG-1402F-ND	6.08	49.54	365.02
	3 (76.20)	A9CAG-1403F-ND	6.41	52.17	384.39
	4 (101.60)	A9CAG-1404F-ND	6.73	54.80	403.76
	5 (127.00)	A9CAG-1405F-ND	7.05	57.43	423.13
	6 (152.40)	A9CAG-1406F-ND	7.38	60.05	442.51
	8 (203.20)	A9CAG-1408F-ND	8.02	65.31	481.25
15	2 (50.80)	A9CAG-1502F-ND	6.97	56.78	418.36
	3 (76.20)	A9CAG-1503F-ND	7.30	59.46	438.11
	4 (101.60)	A9CAG-1504F-ND	7.63	62.14	457.87
	5 (127.00)	A9CAG-1505F-ND	7.96	64.82	477.62
	6 (152.40)	A9CAG-1506F-ND	8.29	67.50	497.37
	8 (203.20)	A9CAG-1508F-ND	8.95	72.86	536.87
16	2 (50.80)	A9CAG-1602F-ND	7.04	57.29	422.14
	3 (76.20)	A9CAG-1603F-ND	7.37	60.01	442.17
	4 (101.60)	A9CAG-1604F-ND	7.70	62.73	462.21
	5 (127.00)	A9CAG-1605F-ND	8.04	65.45	482.24
	6 (152.40)	A9CAG-1606F-ND	8.37	68.17	502.28
	8 (203.20)	A9CAG-1608F-ND	9.04	73.60	542.34
18	2 (50.80)	A9CAG-1802F-ND	8.52	69.41	511.42
	3 (76.20)	A9CAG-1803F-ND	9.09	74.02	545.43
	4 (101.60)	A9CAG-1804F-ND	9.66	78.64	579.43
	5 (127.00)	A9CAG-1805F-ND	10.22	83.25	613.44
	6 (152.40)	A9CAG-1806F-ND	10.79	87.87	647.44
	8 (203.20)	A9CAG-1808F-ND	11.92	97.10	715.46
20	2 (50.80)	A9CAG-2002F-ND	9.05	73.72	543.18
	3 (76.20)	A9CAG-2003F-ND	9.63	78.43	577.88
	4 (101.60)	A9CAG-2004F-ND	10.21	83.13	612.57
	5 (127.00)	A9CAG-2005F-ND	10.79	87.84	647.26
	6 (152.40)	A9CAG-2006F-ND	11.37	92.55	681.95
	8 (203.20)	A9CAG-2008F-ND	12.52	101.97	751.34

Call for complete part number and pricing.

Receptacle Housing with Latch to Receptacle Housing with Latch

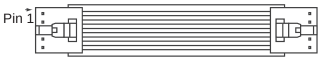

Latch Style Housing — Material: Black thermoplastic, flame retardant, 94V-0 rated. Duplex plated contacts.

A9CCG-□□□□F-ND = 15μ gold,
A9CCA-□□□□F-ND = 30μ gold

No. of Contacts	Length in.(mm)	Digi-Key Part No.	Pricing		
			1	10	100
2	2 (50.80)	A9CCG-0202F-ND	3.80	30.92	227.85
	3 (76.20)	A9CCG-0203F-ND	3.91	31.86	234.74
	4 (101.60)	A9CCG-0204F-ND	4.03	32.79	241.64
	5 (127.00)	A9CCG-0205F-ND	4.14	33.73	248.54
	6 (152.40)	A9CCG-0206F-ND	4.26	34.67	255.44
	8 (203.20)	A9CCG-0208F-ND	4.49	36.54	269.24
3	2 (50.80)	A9CCG-0302F-ND	4.24	34.51	254.26
	3 (76.20)	A9CCG-0303F-ND	4.36	35.49	261.54
	4 (101.60)	A9CCG-0304F-ND	4.48	36.48	268.82
	5 (127.00)	A9CCG-0305F-ND	4.60	37.47	276.09
	6 (152.40)	A9CCG-0306F-ND	4.72	38.46	283.37
	8 (203.20)	A9CCG-0308F-ND	4.97	40.43	297.92
4	2 (50.80)	A9CCG-0402F-ND	4.68	38.07	280.54
	3 (76.20)	A9CCG-0403F-ND	4.80	39.10	288.10
	4 (101.60)	A9CCG-0404F-ND	4.93	40.13	295.66
	5 (127.00)	A9CCG-0405F-ND	5.05	41.15	303.22
	6 (152.40)	A9CCG-0406F-ND	5.18	42.18	310.78
	8 (203.20)	A9CCG-0408F-ND	5.43	44.23	325.90
5	2 (50.80)	A9CCG-0502F-ND	5.12	41.68	307.08
	3 (76.20)	A9CCG-0503F-ND	5.25	42.74	314.93
	4 (101.60)	A9CCG-0504F-ND	5.38	43.80	322.77
	5 (127.00)	A9CCG-0505F-ND	5.51	44.87	330.61
	6 (152.40)	A9CCG-0506F-ND	5.64	45.93	338.46
	8 (203.20)	A9CCG-0508F-ND	5.90	48.06	354.14
6	2 (50.80)	A9CCG-0602F-ND	5.57	45.38	334.37
	3 (76.20)	A9CCG-0603F-ND	5.72	46.57	343.15
	4 (101.60)	A9CCG-0604F-ND	5.87	47.76	351.94
	5 (127.00)	A9CCG-0605F-ND	6.01	48.96	360.73
	6 (152.40)	A9CCG-0606F-ND	6.16	50.15	369.52
	8 (203.20)	A9CCG-0608F-ND	6.45	52.53	387.10
8	2 (50.80)	A9CCG-0802F-ND	6.50	52.90	389.81
	3 (76.20)	A9CCG-0803F-ND	6.68	54.36	400.58
	4 (101.60)	A9CCG-0804F-ND	6.86	55.83	411.35
	5 (127.00)	A9CCG-0805F-ND	7.04	57.29	422.13
	6 (152.40)	A9CCG-0806F-ND	7.21	58.75	432.90
	8 (203.20)	A9CCG-0808F-ND	7.57	61.67	454.44
9	2 (50.80)	A9CCG-0902F-ND	7.04	57.36	422.66
	3 (76.20)	A9CCG-0903F-ND	7.27	59.18	436.08
	4 (101.60)	A9CCG-0904F-ND	7.49	61.00	449.50
	5 (127.00)	A9CCG-0905F-ND	7.72	62.82	462.92
	6 (152.40)	A9CCG-0906F-ND	7.94	64.65	476.34
	8 (203.20)	A9CCG-0908F-ND	8.39	68.29	503.18
10	2 (50.80)	A9CCG-1002F-ND	7.48	60.92	448.88
	3 (76.20)	A9CCG-1003F-ND	7.71	62.78	462.58
	4 (101.60)	A9CCG-1004F-ND	7.94	64.64	476.28
	5 (127.00)	A9CCG-1005F-ND	8.17	66.50	489.98
	6 (152.40)	A9CCG-1006F-ND	8.39	68.36	503.69
	8 (203.20)	A9CCG-1008F-ND	8.85	72.08	531.09
11	2 (50.80)	A9CCG-1102F-ND	8.45	68.79	506.90
	3 (76.20)	A9CCG-1103F-ND	8.68	70.69	520.89
	4 (101.60)	A9CCG-1104F-ND	8.91	72.59	534.87
	5 (127.00)	A9CCG-1105F-ND	9.15	74.49	548.86
	6 (152.40)	A9CCG-1106F-ND	9.38	76.39	562.85
	8 (203.20)	A9CCG-1108F-ND	9.85	80.18	590.82
12	2 (50.80)	A9CCG-1202F-ND	8.56	69.73	513.83
	3 (76.20)	A9CCG-1203F-ND	8.88	72.29	532.64
	4 (101.60)	A9CCG-1204F-ND	9.19	74.84	551.44
	5 (127.00)	A9CCG-1205F-ND	9.50	77.39	570.25
	6 (152.40)	A9CCG-1206F-ND	9.82	79.94	589.05
	8 (203.20)	A9CCG-1208F-ND	10.44	85.05	626.67
13	2 (50.80)	A9CCG-1302F-ND	9.57	77.91	574.05
	3 (76.20)	A9CCG-1303F-ND	9.89	80.50	593.14
	4 (101.60)	A9CCG-1304F-ND	10.20	83.09	612.23
	5 (127.00)	A9CCG-1305F-ND	10.52	85.68	631.32
	6 (152.40)	A9CCG-1306F-ND	10.84	88.27	650.41
	8 (203.20)	A9CCG-1308F-ND	11.48	93.45	688.59
14	2 (50.80)	A9CCG-1402F-ND	9.45	76.92	566.81
	3 (76.20)	A9CCG-1403F-ND	9.77	79.55	586.18
	4 (101.60)	A9CCG-1404F-ND	10.09	82.18	605.55
	5 (127.00)	A9CCG-1405F-ND	10.42	84.81	624.92
	6 (152.40)	A9CCG-1406F-ND	10.74	87.44	644.30
	8 (203.20)	A9CCG-1408F-ND	11.38	92.70	683.04
15	2 (50.80)	A9CCG-1502F-ND	11.06	90.09	663.86
	3 (76.20)	A9CCG-1503F-ND	11.39	92.78	683.61
	4 (101.60)	A9CCG-1504F-ND	11.72	95.46	703.36
	5 (127.00)	A9CCG-1505F-ND	12.05	98.14	723.11
	6 (152.40)	A9CCG-1506F-ND	12.38	100.82	742.86
	8 (203.20)	A9CCG-1508F-ND	13.04	106.19	782.46
16	2 (50.80)	A9CCG-1602F-ND	11.03	89.84	661.95
	3 (76.20)	A9CCG-1603F-ND	11.37	92.55	681.98
	4 (101.60)	A9CCG-1604F-ND	11.70	95.27	702.02
	5 (127.00)	A9CCG-1605F-ND	12.03	97.99	722.05
	6 (152.40)	A9CCG-1606F-ND	12.37	100.71	742.09
	8 (203.20)	A9CCG-1608F-ND	13.04	106.15	782.15
18	2 (50.80)	A9CCG-1802F-ND	13.25	107.86	794.78
	3 (76.20)	A9CCG-1803F-ND	13.81	112.48	828.79
	4 (101.60)	A9CCG-1804F-ND	14.38	117.09	862.80
	5 (127.00)	A9CCG-1805F-ND	14.95	121.71	896.80
	6 (152.40)	A9CCG-1806F-ND	15.51	126.32	930.81
	8 (203.20)	A9CCG-1808F-ND	16.65	135.55	998.82
20	2 (50.80)	A9CCG-2002F-ND	13.99	113.89	839.16
	3 (76.20)	A9CCG-2003F-ND	14.56	118.59	873.85
	4 (101.60)	A9CCG-2004F-ND	15.14	123.30	908.54
	5 (127.00)	A9CCG-2005F-ND	15.72	128.01	943.23
	6 (152.40)	A9CCG-2006F-ND	16.30	132.72	977.92
	8 (203.20)	A9CCG-2008F-ND	17.46	142.13	1047.31

Call for complete part number and pricing.

NEW! Clincher™ Connector System for Flexible Circuitry - 0.100" (2.54 mm) Pitch

Clincher is a two piece, pin and receptacle connector system with features to optimize reliability at the termination and disconnectable interface.

Use 0.100" (2.54 mm) Flat Flex Cable

Features:
- "Clincher" Cable termination provides four gas-tight, contamination-free contact points to each conductor. • High reliability receptacle design features FCI Mini PV™ dual-metal, mating contacts. • Contacts are pre-loaded to connector housings enabling mass termination to unprepared cable; Fast production speed reduces costs.

Materials:
Housings: Polypropylene UL 94 V-O Blue

Electrical Performance:
- Contact Resistance (LLCR) Main Contacts: 10mΩ maximum; 20mΩ maximum after environmental exposure • Insulation Resistance: 5000 MΩ minimum • Withstanding Voltage: 1000 VAC RMS • Current Rating: 2.0 amp continuous per contact

Fig. 1

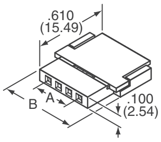

Fig. 2

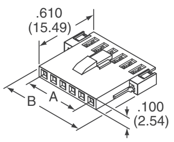

Fig. 3

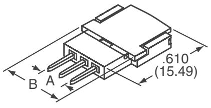

Fig.	No of Pos.	Dimensions - Inch (mm)		Digi-Key Part No.	Price Each			FCI Part No.
		A	B		1	25	100	
Receptacles								
1	2	0.100 (2.54)	0.390 (9.91)	609-2158-ND	1.04	.55	.48	65801-002LF
	3	0.200 (5.08)	0.490 (12.45)	609-2159-ND	1.14	.63	.53	65801-003LF
	4	0.300 (7.62)	0.590 (14.99)	609-2160-ND	1.12	.62	.52	65801-004LF
	5	0.400 (10.16)	0.690 (17.53)	609-2161-ND	1.33	.72	.62	65801-005LF
	6	0.500 (12.70)	0.790 (20.07)	609-2162-ND	1.36	.74	.63	65801-006LF
	7	0.600 (15.24)	0.890 (22.61)	609-2163-ND	1.60	.87	.76	65801-007LF
	8	0.700 (17.78)	0.990 (25.15)	609-2164-ND	1.58	.86	.75	65801-008LF
	9	0.800 (20.32)	1.090 (27.69)	609-2165-ND	1.64	.91	.80	65801-009LF
	10	0.900 (22.86)	1.190 (30.23)	609-2166-ND	1.92	1.10	.95	65801-010LF
	11	1.000 (25.40)	1.290 (32.77)	609-2167-ND	1.91	1.13	.98	65801-011LF
	12	1.100 (27.94)	1.390 (35.31)	609-2168-ND	1.95	1.15	1.00	65801-012LF
	13	1.200 (30.48)	1.490 (37.85)	609-2169-ND	2.37	1.42	1.24	65801-013LF
	14	1.300 (33.02)	1.590 (40.39)	609-2170-ND	2.15	1.24	1.10	65801-014LF
	15	1.400 (35.56)	1.690 (42.93)	609-2171-ND	2.58	1.55	1.36	65801-015LF
	16	1.500 (38.10)	1.790 (45.47)	609-2172-ND	2.49	1.50	1.31	65801-016LF
	17	1.600 (40.64)	1.890 (48.01)	609-2173-ND	3.06	1.88	1.64	65801-017LF
	18	1.700 (43.18)	1.990 (50.55)	609-2174-ND	3.06	1.89	1.67	65801-018LF
	20	1.900 (48.26)	2.190 (55.63)	609-2175-ND	3.03	1.86	1.62	65801-020LF
Receptacle With Latch								
2	6	0.500 (12.70)	0.790 (20.07)	609-2194-ND	1.01	.53	.46	10022753-006LF
	7	0.600 15.24)	0.890 (22.61)	609-2195-ND	1.12	.62	.52	10022753-007LF
	8	0.700 (17.78)	0.990 (25.15)	609-2196-ND	1.25	.68	.58	10022753-008LF
	9	0.800 (20.32)	1.090 (27.69)	609-2197-ND	1.37	.76	.66	10022753-009LF
	10	0.900 (22.86)	1.190 (30.23)	609-2198-ND	1.49	.81	.71	10022753-010LF
	11	1.000 (25.40)	1.290 (32.77)	609-2199-ND	1.63	.89	.78	10022753-011LF
	12	1.100 (27.94)	1.390 (35.31)	609-2200-ND	1.73	.97	.85	10022753-012LF
	13	1.200 (30.48)	1.490 (37.85)	609-2201-ND	1.83	1.05	.91	10022753-013LF
	14	1.300 (33.02)	1.590 (40.39)	609-2202-ND	1.91	1.13	.98	10022753-014LF
	15	1.400 (35.56)	1.690 (42.93)	609-2203-ND	2.05	1.18	1.05	10022753-015LF
	16	1.500 (38.10)	1.790 (45.47)	609-2204-ND	2.18	1.26	1.12	10022753-016LF
2	17	1.600 (40.64)	1.890 (48.01)	609-2205-ND	2.25	1.34	1.19	10022753-017LF
	18	1.700 (43.18)	1.990 (50.55)	609-2206-ND	2.35	1.41	1.23	10022753-018LF
	19	1.800 (45.72)	2.090 (53.09)	609-2207-ND	2.48	1.49	1.30	10022753-019LF
	20	1.900 (48.26)	2.190 (55.63)	609-2208-ND	2.57	1.53	1.37	10022753-020LF
	21	2.000 (50.80)	2.290 (58.17)	609-2209-ND	2.70	1.61	1.44	10022753-021LF
	22	2.100 (53.34)	2.390 (60.71)	609-2210-ND	2.74	1.68	1.51	10022753-022LF
	23	2.200 (55.88)	2.490 (63.25)	609-2211-ND	2.86	1.76	1.53	10022753-023LF
	24	2.300 (58.42)	2.590 (65.79)	609-2212-ND	2.99	1.84	1.59	10022753-024LF
	25	2.400 (60.96)	2.690 (68.33)	609-2213-ND	3.01	1.86	1.64	10022753-025LF
Pin Connectors								
3	2	0.100 (2.54)	0.390 (9.91)	609-2176-ND	1.68	.94	.82	66226-002LF
	3	0.200 (5.08)	0.490 (12.45)	609-2177-ND	.93	.46	.39	66226-003LF
	4	0.300 (7.62)	0.590 (14.99)	609-2178-ND	1.54	.84	.73	66226-004LF
	5	0.400 (10.16)	0.690 (17.53)	609-2179-ND	1.78	1.02	.89	66226-005LF
	6	0.500 (12.70)	0.790 (20.07)	609-2180-ND	1.72	.96	.84	66226-006LF
	7	0.600 (15.24)	0.890 (22.61)	609-2181-ND	1.91	1.13	.98	66226-007LF
	8	0.700 (17.78)	0.990 (25.15)	609-2182-ND	1.94	1.15	.99	66226-008LF
	9	0.800 (20.32)	1.090 (27.69)	609-2183-ND	2.16	1.24	1.10	66226-009LF
	10	0.900 (22.86)	1.190 (30.23)	609-2184-ND	2.30	1.38	1.21	66226-010LF
	11	1.000 (25.40)	1.290 (32.77)	609-2185-ND	2.56	1.53	1.37	66226-011LF
	12	1.100 (27.94)	1.390 (35.31)	609-2186-ND	2.68	1.64	1.47	66226-012LF
	13	1.200 (30.48)	1.490 (37.85)	609-2187-ND	2.87	1.76	1.53	66226-013LF
	14	1.300 (33.02)	1.590 (40.39)	609-2188-ND	3.10	1.90	1.65	66226-014LF
	15	1.400 (35.56)	1.690 (42.93)	609-2189-ND	3.24	2.01	1.77	66226-015LF
	16	1.500 (38.10)	1.790 (45.47)	609-2190-ND	3.37	2.08	1.84	66226-016LF
	17	1.600 (40.64)	1.890 (48.01)	609-2191-ND	3.10	1.90	1.65	66226-017LF
	18	1.700 (43.18)	1.990 (50.55)	609-2192-ND	3.71	2.31	2.09	66226-018LF
	20	1.800 (45.72)	2.090 (53.09)	609-2193-ND	4.10	2.55	2.31	66226-020LF
Tool								
Crimp Tool for Clincher Connectors				609-2214-ND	1401.92	—	—	HT-270

.050" (1.27mm) Flat Flex Cable

RoHS Compliant

Material:
- Insulation: Flame retardant polyester film

Performance Characteristics:
- Current Rating: 1.5 amperes (30AWG equivalent)
- Voltage Rating: 300V • Temperature Rating: -20°C ~ 105°C • Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1 • Dielectric Strength: 2500V/MIL

Typical Electrical Values:
- Resistance: 110Ω/1000 feet (304.8 meters) maximum
- Capacitance: 13.8 pf/ft (maximum) • Impedance: 113Ω

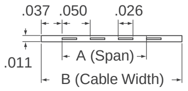

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing 500 Ft.
	A	B		
4	.150 (3.81)	.250 (6.35)	AE04-500-ND	300.00
5	.200 (5.08)	.300 (7.62)	AE05-500-ND	307.50
6	.250 (6.35)	.350 (8.89)	AE06-500-ND	315.00
7	.300 (7.62)	.400 (10.16)	AE07-500-ND	322.50
8	.350 (8.89)	.450 (11.43)	AE08-500-ND	330.00
10	.450 (11.43)	.550 (13.97)	AE10-500-ND	345.00
12	.550 (13.97)	.650 (16.51)	AE12-500-ND	367.50
17	.800 (20.32)	.900 (22.86)	AE17-500-ND	442.50
20	.950 (24.13)	1.050 (26.67)	AE20-500-ND	510.00
22	1.050 (26.67)	1.150 (29.21)	AE22-500-ND	555.00
25	1.200 (30.48)	1.300 (33.02)	AE25-500-ND	645.00

.100" (2.54mm) Flat Flex Cable

RoHS Compliant

Material:
- Conductors: Unplated copper per QQ-C502
- Insulation: Flame retardant polyester film

Performance Characteristics:
- Current Rating: 2 amperes (28AWG equivalent)
- Voltage Rating: 300V • Temperature Rating: -55°C ~ 105°C • Insulation Resistance: 5000 MΩ (minimum)
- Insulation Flammability: Polyester, self-extinguishing per UL Flame Test VW-1 • UL Style 2643

Typical Electrical Values:
- Resistance: 55Ω/1000 feet (304.8 meters) maximum
- Capacitance: 10.8 pf/ft (maximum) • Impedance: 128Ω

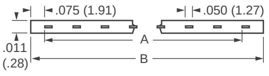

No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing 500 Ft.
	A	B		
2	.100 (2.54)	.300 (7.62)	AF02-500-ND	247.50
3	.200 (5.08)	.400 (10.16)	AF03-500-ND	270.00
4	.300 (7.62)	.500 (12.70)	AF04-500-ND	285.00
5	.400 (10.16)	.600 (15.24)	AF05-500-ND	292.50
6	.500 (12.70)	.700 (17.78)	AF06-500-ND	315.00
8	.700 (17.78)	.900 (22.86)	AF08-500-ND	352.50
9	.800 (20.32)	1.000 (25.40)	AF09-500-ND	405.00
10	.900 (22.86)	1.100 (27.94)	AF10-500-ND	420.00
11	1.000 (25.40)	1.200 (30.48)	AF11-500-ND	435.00
12	1.100 (27.94)	1.300 (33.02)	AF12-500-ND	450.00
13	1.200 (30.48)	1.400 (35.56)	AF13-500-ND	465.00
14	1.300 (33.02)	1.500 (38.10)	AF14-500-ND	480.00
15	1.400 (35.56)	1.600 (40.64)	AF15-500-ND	495.00
16	1.500 (38.10)	1.700 (43.18)	AF16-500-ND	540.00
18	1.700 (43.18)	1.900 (48.26)	AF18-500-ND	622.50
20	1.900 (48.26)	2.100 (53.34)	AF20-500-ND	712.50

Parlex CORPORATION

0.5mm and 1mm Flat Flex Cable

Parlex custom jumper cables are available with flat conductors of desired length, stripped at both ends. The insulation has been stripped from one side only, exposing one surface of the conductors. Conductors have been pre-tinned for direct insertion into connectors.

Features:
• Superior Mechanical and Shielding Performance • Meets FCC, CIS PR/VDE effectivity requirements for inter connects • High flexibility rating of 10 million flex cycles on a .6” (15.24mm) radius with optimum design layout • Superior mechanical and abrasion resistance

Cable Characteristics:
• **Conductors:** Cu., tin/lead plated • **Current Rating:** 0.5A (0.5mm); 1.50A (1mm) • **Voltage Rating:** 90 volts • **Insulation:** polyester • **Temperature Rating:** -55°C ~ 105°C • **Dielectric Strength:** 2500 volts/mil • **U.L. Flame Rating:** VW-1 • **U.L. Styles:** 20890 & 20566

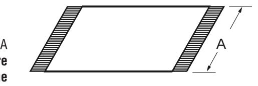

0.5mm Flat Flex Cable

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing			Parlex Part No.
			1	10	100	
		2” (5.08cm) Flat Flex Cable				
4	2.5	HFF-04U-02-ND	3.60	30.00	220.00	05004-51B
5	3.0	HFF-05U-02-ND	3.60	30.00	220.00	05005-51B
6	3.5	HFF-06U-02-ND	3.60	30.00	220.00	05006-51B
7	4.0	HFF-07U-02-ND	3.60	30.00	220.00	05007-51B
8	4.5	HFF-08U-02-ND	3.60	30.00	220.00	05008-51B
10	5.5	HFF-10U-02-ND	3.60	30.00	220.00	05010-51B
12	6.5	HFF-12U-02-ND	3.60	30.00	220.00	05012-51B
13	7.0	HFF-13U-02-ND	3.60	30.00	220.00	05013-51B
15	8.0	HFF-15U-02-ND	3.60	30.00	220.00	05015-51B
18	8.5	HFF-18U-02-ND	3.60	30.00	220.00	05018-51B
20	10.5	HFF-20U-02-ND	3.74	31.13	228.25	05020-51B
21	11	HFF-21U-02-ND	3.74	31.13	228.25	05021-51B
22	11.5	HFF-22U-02-ND	3.74	31.13	228.25	05022-51B
24	12.5	HFF-24U-02-ND	3.78	31.50	231.00	05024-51B
26	13.5	HFF-26U-02-ND	3.74	31.13	228.25	05026-51B
30	15.5	HFF-30U-02-ND	3.83	31.88	233.75	05030-51B
36	18.5	HFF-36U-02-ND	3.87	32.25	236.50	05036-51B
40	20.5	HFF-40U-02-ND	3.92	32.63	239.25	05040-51B
50	25.5	HFF-50U-02-ND	4.05	33.75	247.50	05050-51B
		3” (7.62cm) Flat Flex Cable				
4	2.5	HFF-04U-03-ND	4.05	33.75	247.50	05004-76B
5	3.0	HFF-05U-03-ND	4.05	33.75	247.50	05005-76B
6	3.5	HFF-06U-03-ND	4.05	33.75	247.50	05006-76B
7	4.0	HFF-07U-03-ND	4.05	33.75	247.50	05007-76B
8	4.5	HFF-08U-03-ND	4.05	33.75	247.50	05008-76B
10	5.5	HFF-10U-03-ND	4.05	33.75	247.50	05010-76B
12	6.5	HFF-12U-03-ND	4.05	33.75	247.50	05012-76B
13	7.0	HFF-13U-03-ND	4.05	33.75	247.50	05013-76B
15	8.0	HFF-15U-03-ND	4.05	33.75	247.50	05015-76B
18	8.5	HFF-18U-03-ND	4.05	33.75	247.50	05018-76B
20	10.5	HFF-20U-03-ND	4.05	33.75	247.50	05020-76B
21	11	HFF-21U-03-ND	4.05	33.75	247.50	05021-76B
22	11.5	HFF-22U-03-ND	4.05	33.75	247.50	05022-76B
24	12.5	HFF-24U-03-ND	4.05	33.75	247.50	05024-76B
26	13.5	HFF-26U-03-ND	4.05	33.75	247.50	05026-76B
30	15.5	HFF-30U-03-ND	4.05	33.75	247.50	05030-76B
36	18.5	HFF-36U-03-ND	4.05	33.75	247.50	05036-76B
40	20.5	HFF-40U-03-ND	4.05	33.75	247.50	05040-76B
50	25.5	HFF-50U-03-ND	4.05	33.75	247.50	05050-76B
		4” (10.16cm) Flat Flex Cable				
4	2.5	HFF-04U-04-ND	4.05	33.75	247.50	05004-102B
5	3.0	HFF-05U-04-ND	4.05	33.75	247.50	05005-102B
6	3.5	HFF-06U-04-ND	4.05	33.75	247.50	05006-102B
7	4.0	HFF-07U-04-ND	4.05	33.75	247.50	05007-102B
8	4.5	HFF-08U-04-ND	4.05	33.75	247.50	05008-102B
10	5.5	HFF-10U-04-ND	4.05	33.75	247.50	05010-102B
12	6.5	HFF-12U-04-ND	4.28	35.63	261.25	05012-102B
13	7.0	HFF-13U-04-ND	4.28	35.63	261.25	05013-102B
15	8.0	HFF-15U-04-ND	4.28	35.63	261.25	05015-102B
18	8.5	HFF-18U-04-ND	4.28	35.63	261.25	05018-102B
20	10.5	HFF-20U-04-ND	4.28	35.63	261.25	05020-102B
21	11	HFF-21U-04-ND	4.28	35.63	261.25	05021-102B
22	11.5	HFF-22U-04-ND	4.28	35.63	261.25	05022-102B
24	12.5	HFF-24U-04-ND	4.37	36.38	266.75	05024-102B
26	13.5	HFF-26U-04-ND	4.37	36.38	266.75	05026-102B
30	15.5	HFF-30U-04-ND	4.50	37.50	275.00	05030-102B
36	18.5	HFF-36U-04-ND	4.64	38.63	283.25	05036-102B
40	20.5	HFF-40U-04-ND	4.73	39.38	288.75	05040-102B
50	25.5	HFF-50U-04-ND	4.95	41.25	302.50	05050-102B
		5” (12.70cm) Flat Flex Cable				
4	2.5	HFF-04U-05-ND	4.95	41.25	302.50	05004-127B
5	3.0	HFF-05U-05-ND	4.95	41.25	302.50	05005-127B
6	3.5	HFF-06U-05-ND	4.95	41.25	302.50	05006-127B
7	4.0	HFF-07U-05-ND	4.95	41.25	302.50	05007-127B
8	4.5	HFF-08U-05-ND	4.95	41.25	302.50	05008-127B
10	5.5	HFF-10U-05-ND	4.95	41.25	302.50	05010-127B
12	6.5	HFF-12U-05-ND	4.95	41.25	302.50	05012-127B
13	7.0	HFF-13U-05-ND	4.95	41.25	302.50	05013-127B
15	8	HFF-15U-05-ND	4.95	41.25	302.50	05015-127B
18	8.5	HFF-18U-05-ND	4.95	41.25	302.50	05018-127B
20	10.5	HFF-20U-05-ND	4.95	41.25	302.50	05020-127B
21	11	HFF-21U-05-ND	4.95	41.25	302.50	05021-127B
22	11.5	HFF-22U-05-ND	4.95	41.25	302.50	05022-127B
24	12.5	HFF-24U-05-ND	4.95	41.25	302.50	05024-127B
26	13.5	HFF-26U-05-ND	4.95	41.25	302.50	05026-127B
30	15.5	HFF-30U-05-ND	4.95	41.25	302.50	05030-127B
36	18.5	HFF-36U-05-ND	4.95	41.25	302.50	05036-127B
40	20.5	HFF-40U-05-ND	4.95	41.25	302.50	05040-127B
50	25.5	HFF-50U-05-ND	4.95	41.25	302.50	05050-127B
		6” (15.24cm) Flat Flex Cable				
4	2.5	HFF-04U-06-ND	4.95	41.25	302.50	05004-152B
5	3.0	HFF-05U-06-ND	4.95	41.25	302.50	05005-152B
6	3.5	HFF-06U-06-ND	4.95	41.25	302.50	05006-152B
7	4.0	HFF-07U-06-ND	4.95	41.25	302.50	05007-152B
8	4.5	HFF-08U-06-ND	4.95	41.25	302.50	05008-152B
10	5.5	HFF-10U-06-ND	4.95	41.25	302.50	05010-152B
12	6.5	HFF-12U-06-ND	4.95	41.25	302.50	05012-152B
13	7.0	HFF-13U-06-ND	4.95	41.25	302.50	05013-152B
15	8.0	HFF-15U-06-ND	4.95	41.25	302.50	05015-152B
18	8.5	HFF-18U-06-ND	4.95	41.25	302.50	05018-152B
20	10.5	HFF-20U-06-ND	4.95	41.25	302.50	05020-152B
21	11	HFF-21U-06-ND	4.95	41.25	302.50	05021-152B
22	11.5	HFF-22U-06-ND	4.95	41.25	302.50	05022-152B
24	12.5	HFF-24U-06-ND	5.18	43.13	316.25	05024-152B
26	13.5	HFF-26U-06-ND	5.18	43.13	316.25	05026-152B
30	15.5	HFF-30U-06-ND	5.40	45.00	330.00	05030-152B
36	18.5	HFF-36U-06-ND	5.54	46.13	338.25	05036-152B
40	20.5	HFF-40U-06-ND	5.63	46.88	343.75	05040-152B
50	25.5	HFF-50U-06-ND	5.85	48.75	357.50	05050-152B

1mm Flat Flex Cable

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing			Parlex Part No.
			1	10	100	
		2” (5.08cm) Flat Flex Cable				
5	6.15	HF05U-02-ND	2.25	18.75	137.50	10005-51B
6	7.15	HF06U-02-ND	2.25	18.75	137.50	10006-51B
7	8.15	HF07U-02-ND	2.25	18.75	137.50	10007-51B
8	9.15	HF08U-02-ND	2.48	20.63	151.25	10008-51B
10	11.15	HF10U-02-ND	2.70	22.50	165.00	10010-51B
12	13.15	HF12U-02-ND	2.93	24.38	178.75	10012-51B
14	15.15	HF14U-02-ND	3.15	26.25	192.50	10014-51B
15	16.15	HF15U-02-ND	3.15	26.25	192.50	10015-51B
16	17.15	HF16U-02-ND	3.38	28.13	206.25	10016-51B
17	18.15	HF17U-02-ND	3.38	28.13	206.25	10017-51B
18	19.15	HF18U-02-ND	3.60	30.00	220.00	10018-51B
20	21.15	HF20U-02-ND	3.83	31.88	233.75	10020-51B
22	23.15	HF22U-02-ND	4.05	33.75	247.50	10022-51B
24	25.15	HF24U-02-ND	4.28	35.63	261.25	10024-51B
26	27.15	HF26U-02-ND	4.50	37.50	275.00	10026-51B
28	29.15	HF28U-02-ND	4.73	39.38	288.75	10028-51B
30	31.15	HF30U-02-ND	4.95	41.25	302.50	10030-51B

(Continued)

Parlex CORPORATION

0.5mm and 1mm Flat Flex Cable

1mm Flat Flex Cable *(Cont.)*

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing			Parlex Part No.
			1	10	100	
3" (7.62cm) Flat Flex Cable						
5	6.15	HF05U-03-ND	2.48	20.63	151.25	10005-76B
6	7.15	HF06U-03-ND	2.48	20.63	151.25	10006-76B
7	8.15	HF07U-03-ND	2.48	20.63	151.25	10007-76B
8	9.15	HF08U-03-ND	2.70	22.50	165.00	10008-76B
10	11.15	HF10U-03-ND	2.93	24.38	178.75	10010-76B
12	13.15	HF12U-03-ND	3.15	26.25	192.50	10012-76B
14	15.15	HF14U-03-ND	3.38	28.13	206.25	10014-76B
15	16.15	HF15U-03-ND	3.38	28.13	206.25	10015-76B
16	17.15	HF16U-03-ND	3.60	30.00	220.00	10016-76B
17	18.15	HF17U-03-ND	3.60	30.00	220.00	10017-76B
18	19.15	HF18U-03-ND	3.83	31.88	233.75	10018-76B
20	21.15	HF20U-03-ND	4.05	33.75	247.50	10020-76B
22	23.15	HF22U-03-ND	4.28	35.63	261.25	10022-76B
24	25.15	HF24U-03-ND	4.50	37.50	275.00	10024-76B
26	27.15	HF26U-03-ND	4.73	39.38	288.75	10026-76B
28	29.15	HF28U-03-ND	4.95	41.25	302.50	10028-76B
30	31.15	HF30U-03-ND	5.18	43.13	316.25	10030-76B
4" (10.16cm) Flat Flex Cable						
5	6.15	HF05U-04-ND	2.70	22.50	165.00	10005-102B
6	7.15	HF06U-04-ND	2.70	22.50	165.00	10006-102B
7	8.15	HF07U-04-ND	2.70	22.50	165.00	10007-102B
8	9.15	HF08U-04-ND	2.93	24.38	178.75	10008-102B
10	11.15	HF10U-04-ND	3.15	26.25	192.50	10010-102B
12	13.15	HF12U-04-ND	3.38	28.13	206.25	10012-102B
14	15.15	HF14U-04-ND	3.60	30.00	220.00	10014-102B
15	16.15	HF15U-04-ND	3.60	30.00	220.00	10015-102B
16	17.15	HF16U-04-ND	3.83	31.88	233.75	10016-102B
17	18.15	HF17U-04-ND	3.83	31.88	233.75	10017-102B
18	19.15	HF18U-04-ND	4.05	33.75	247.50	10018-102B
20	21.15	HF20U-04-ND	4.28	35.63	261.25	10020-102B
22	23.15	HF22U-04-ND	4.50	37.50	275.00	10022-102B
24	25.15	HF24U-04-ND	4.73	39.38	288.75	10024-102B
26	27.15	HF26U-04-ND	4.95	41.25	302.50	10026-102B
28	29.15	HF28U-04-ND	5.18	43.13	316.25	10028-102B
30	31.15	HF30U-04-ND	5.40	45.00	330.00	10030-102B
5" (12.70cm) Flat Flex Cable						
5	6.15	HF05U-05-ND	2.93	24.38	178.75	10005-127B
6	7.15	HF06U-05-ND	2.93	24.38	178.75	10006-127B
7	8.15	HF07U-05-ND	2.93	24.38	178.75	10007-127B
8	9.15	HF08U-05-ND	3.15	26.25	192.50	10008-127B
10	11.15	HF10U-05-ND	3.38	28.13	206.25	10010-127B
12	13.15	HF12U-05-ND	3.60	30.00	220.00	10012-127B
14	15.15	HF14U-05-ND	3.83	31.88	233.75	10014-127B
15	16.15	HF15U-05-ND	3.83	31.88	233.75	10015-127B
16	17.15	HF16U-05-ND	4.05	33.75	247.50	10016-127B
17	18.15	HF17U-05-ND	4.05	33.75	247.50	10017-127B
18	19.15	HF18U-05-ND	4.28	35.63	261.25	10018-127B
20	21.15	HF20U-05-ND	4.50	37.50	275.00	10020-127B
22	23.15	HF22U-05-ND	4.73	39.38	288.75	10022-127B
24	25.15	HF24U-05-ND	4.95	41.25	302.50	10024-127B
26	27.15	HF26U-05-ND	5.18	43.13	316.25	10026-127B
28	29.15	HF28U-05-ND	5.40	45.00	330.00	10028-127B
30	31.15	HF30U-05-ND	5.63	46.88	343.75	10030-127B
6" (15.24cm) Flat Flex Cable						
5	6.15	HF05U-06-ND	3.15	26.25	192.50	10005-152B
6	7.15	HF06U-06-ND	3.15	26.25	192.50	10006-152B
7	8.15	HF07U-06-ND	3.15	26.25	192.50	10007-152B
8	9.15	HF08U-06-ND	3.38	28.13	206.25	10008-152B
10	11.15	HF10U-06-ND	3.60	30.00	220.00	10010-152B
12	13.15	HF12U-06-ND	3.83	31.88	233.75	10012-152B
14	15.15	HF14U-06-ND	4.05	33.75	247.50	10014-152B
15	16.15	HF15U-06-ND	4.05	33.75	247.50	10015-152B
16	17.15	HF16U-06-ND	4.28	35.63	261.25	10016-152B
17	18.15	HF17U-06-ND	4.28	35.63	261.25	10017-152B
18	19.15	HF18U-06-ND	4.50	37.50	275.00	10018-152B
20	21.15	HF20U-06-ND	4.73	39.38	288.75	10020-152B
22	23.15	HF22U-06-ND	4.95	41.25	302.50	10022-152B
24	25.15	HF24U-06-ND	5.18	43.13	316.25	10024-152B
26	27.15	HF26U-06-ND	5.40	45.00	330.00	10026-152B
28	29.15	HF28U-06-ND	5.63	46.88	343.75	10028-152B
30	31.15	HF30U-06-ND	5.85	48.75	357.50	10030-152B
8" (20.32cm) Flat Flex Cable						
5	6.15	HF05U-08-ND	3.60	30.00	220.00	10005-203B
6	7.15	HF06U-08-ND	3.60	30.00	220.00	10006-203B
7	8.15	HF07U-08-ND	3.60	30.00	220.00	10007-203B
8	9.15	HF08U-08-ND	3.83	31.88	233.75	10008-203B
10	11.15	HF10U-08-ND	4.05	33.75	247.50	10010-203B
12	13.15	HF12U-08-ND	4.28	35.63	261.25	10012-203B
14	15.15	HF14U-08-ND	4.50	37.50	275.00	10014-203B
15	16.15	HF15U-08-ND	4.50	37.50	275.00	10015-203B
16	17.15	HF16U-08-ND	4.73	39.38	288.75	10016-203B
17	18.15	HF17U-08-ND	4.73	39.38	288.75	10017-203B
18	19.15	HF18U-08-ND	4.95	41.25	302.50	10018-203B
20	21.15	HF20U-08-ND	5.18	43.13	316.25	10020-203B
22	23.15	HF22U-08-ND	5.40	45.00	330.00	10022-203B
24	25.15	HF24U-08-ND	5.63	46.88	343.75	10024-203B
26	27.15	HF26U-08-ND	5.85	48.75	357.50	10026-203B
28	29.15	HF28U-08-ND	6.08	50.63	371.25	10028-203B
30	31.15	HF30U-08-ND	6.30	52.50	385.00	10030-203B
10" (25.40cm) Flat Flex Cable						
5	6.15	HF05U-10-ND	4.05	33.75	247.50	10005-254B
6	7.15	HF06U-10-ND	4.05	33.75	247.50	10006-254B
7	8.15	HF07U-10-ND	4.05	33.75	247.50	10007-254B
8	9.15	HF08U-10-ND	4.28	35.63	261.25	10008-254B
10	11.15	HF10U-10-ND	4.50	37.50	275.00	10010-254B
12	13.15	HF12U-10-ND	4.73	39.38	288.75	10012-254B
14	15.15	HF14U-10-ND	4.95	41.25	302.50	10014-254B
15	16.15	HF15U-10-ND	4.95	41.25	302.50	10015-254B
16	17.15	HF16U-10-ND	5.18	43.13	316.25	10016-254B
17	18.15	HF17U-10-ND	5.18	43.13	316.25	10017-254B
18	19.15	HF18U-10-ND	5.40	45.00	330.00	10018-254B
20	21.15	HF20U-10-ND	5.63	46.88	343.75	10020-254B
22	23.15	HF22U-10-ND	5.85	48.75	357.50	10022-254B
24	25.15	HF24U-10-ND	6.08	50.63	371.25	10024-254B
26	27.15	HF26U-10-ND	6.30	52.50	385.00	10026-254B
28	29.15	HF28U-10-ND	6.53	54.38	398.75	10028-254B
30	31.15	HF30U-10-ND	6.75	56.25	412.50	10030-254B
12" (30.48cm) Flat Flex Cable						
5	6.15	HF05U-12-ND	4.50	37.50	275.00	10005-305B
6	7.15	HF06U-12-ND	4.50	37.50	275.00	10006-305B
7	8.15	HF07U-12-ND	4.50	37.50	275.00	10007-305B
8	9.15	HF08U-12-ND	4.73	39.38	288.75	10008-305B
10	11.15	HF10U-12-ND	4.95	41.25	302.50	10010-305B
12	13.15	HF12U-12-ND	5.18	43.13	316.25	10012-305B
14	15.15	HF14U-12-ND	5.40	45.00	330.00	10014-305B
15	16.15	HF15U-12-ND	5.40	45.00	330.00	10015-305B
16	17.15	HF16U-12-ND	5.63	46.88	343.75	10016-305B
17	18.15	HF17U-12-ND	5.63	46.88	343.75	10017-305B
18	19.15	HF18U-12-ND	5.85	48.75	357.50	10018-305B
20	21.15	HF20U-12-ND	6.08	50.63	371.25	10020-305B
22	23.15	HF22U-12-ND	6.30	52.50	385.00	10022-305B
24	25.15	HF24U-12-ND	6.53	54.38	398.75	10024-305B
26	27.15	HF26U-12-ND	6.75	56.25	412.50	10026-305B
28	29.15	HF28U-12-ND	6.98	58.13	426.25	10028-305B
30	31.15	HF30U-12-ND	7.20	60.00	440.00	10030-305B
18" (45.72cm) Flat Flex Cable						
5	6.15	HF05U-18-ND	5.85	48.75	357.50	10005-457B
6	7.15	HF06U-18-ND	5.85	48.75	357.50	10006-457B
7	8.15	HF07U-18-ND	5.85	48.75	357.50	10007-457B
8	9.15	HF08U-18-ND	6.08	50.63	371.25	10008-457B
10	11.15	HF10U-18-ND	6.30	52.50	385.00	10010-457B
12	13.15	HF12U-18-ND	6.53	54.38	398.75	10012-457B
14	15.15	HF14U-18-ND	6.75	56.25	412.50	10014-457B
15	16.15	HF15U-18-ND	6.75	56.25	412.50	10015-457B
16	17.15	HF16U-18-ND	6.98	58.13	426.25	10016-457B
17	18.15	HF17U-18-ND	5.63	46.88	343.75	10017-305B
18	19.15	HF18U-18-ND	7.20	60.00	440.00	10018-457B
20	21.15	HF20U-18-ND	7.43	61.88	453.75	10020-457B
22	23.15	HF22U-18-ND	7.65	63.75	467.50	10022-457B
24	25.15	HF24U-18-ND	7.88	65.63	481.25	10024-457B
26	27.15	HF26U-18-ND	8.10	67.50	495.00	10026-457B
28	29.15	HF28U-18-ND	8.33	69.38	508.75	10028-457B
30	31.15	HF30U-18-ND	8.55	71.25	522.50	10030-457B

High Density FFC/FPC Connectors

FH16, FH16H, FH16M and FH16P Series (0.3mm/0.4mm/0.5mm Pitch)

Features: The FH16 Series is a fine pitch, zero insertion force (ZIF), right angle, bottom contact connector compatible with flat flex cables (FFC) or flexible printed circuits (FPC) with a pitch of 0.3mm, 0.4mm and 0.5mm. A recommended thickness of 0.295mm for single-sided or 0.306mm for double-sided. The flip-lock (one-touch rotating type) ZIF structure secures the FFC/FPC connection with a single and light force. This design helps simplify assembly and repair work. When locking the FFC/FPC, the audible click assures the assembly worker of a steady FFC/FPC connection resulting in improved customer service. Embossed tape packaging allows for automatic placement onto the PCB **Applications:** • Notebook computers, printers, PDAs, digital cameras and other compact devices for interconnecting the main circuit board with the LCD, PDP (Plasma Display), HDD or other device **Specifications:** • Operating Temperature: -40°C ~ 70°C • Insulation Resistance: 500MΩ minimum • Contact Resistance: 150mΩ maximum (including FFC/FPC conductor resistance) **Materials:** • Insulators: Polyamide and LCP - Beige, PPS - Deep Brown; UL94V-0 • Contacts: Phosphor Bronze - Solder plating

Dim. in mm.

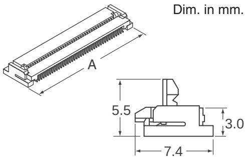

		Pitch	0.3mm	0.4mm	0.5mm
Ratings		Current Rating	0.15A	0.3A	0.4A
		Voltage Rating	30 VAC	50 VAC	60 VAC

No. of Pos.	Contact Pitch	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Hirose Part No.
60	0.3	21.9	HFP060CT-ND	6.06	5.02	4.18	3.77	HFP060TR-ND	2717.00	FH16-60S-0.3SHW
			HFP160CT-ND†	6.47	5.36	4.46	4.02	HFP160TR-ND†	2899.00	FH16-60S-0.3SHW(05)
80	0.3	27.9	HFP080CT-ND	6.82	5.64	4.70	4.23	HFP080TR-ND	3055.00	FH16-80S-0.3SHW
			HFP180CT-ND†	6.60	5.59	4.70	4.20	HFP180TR-ND†	3239.00	FH16-80S-0.3SHW(05)
90	0.3	30.9	HFP090CT-ND	7.22	5.98	4.98	4.49	HFP090TR-ND	3237.00	FH16-90S-0.3SHW
			HFP190CT-ND†	7.02	5.94	5.00	4.46	HFP190TR-ND†	3443.00	FH16-90S-0.3SHW(05)
50	0.5	29.4	HFP050CT-ND	4.67	3.87	3.22	2.90	HFP050TR-ND	2093.00	FH16H-50S-0.5SHW
			HFP150CT-ND†	6.03	5.00	4.16	3.75	HFP150TR-ND†	2704.00	FH16H-50S-0.5SHW(05)
96	0.4	42.5	HFP096CT-ND	7.08	5.86	4.88	4.40	HFP096TR-ND	3172.00	FH16M-96S-0.4SHW
			HFP196CT-ND†	7.25	6.14	5.17	4.61	HFP196TR-ND†	3557.00	FH16M-96S-0.4SHW(05)
64	0.5	36.0	HFP064CT-ND	5.97	4.95	4.12	3.71	HFP064TR-ND	2678.00	FH16P-64S-0.5SHW
			HFP164CT-ND†	6.61	5.48	4.56	4.11	HFP164TR-ND†	2964.00	FH16P-64S-0.5SHW(05)

† Gold Plating

FH23 Series (0.3mm Pitch)
Flexible Printed Circuit Connectors

Dim. in mm.

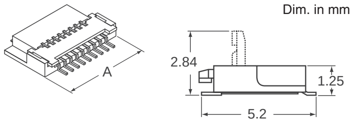

Specifications:

- Current Rating: 0.3A DC
- Voltage Rating: 50VAC
- Operating Temperature: -55°C ~ 85°C
- Insulation Resistance: 50MΩ minimum
- Contact Resistance: 100mΩ maximum (Including FPC/FFC conductor resistance)

Materials:

- Insulators: LCP, beige; LCP, black; UL94V-0
- Contacts: Phosphor bronze, pure tin plating

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape & Reel Pricing 2,500	Hirose Part No.
					Lead-less				
15	7.0	HFQ15CT-ND	1.79	1.38	1.10	.92	HFQ15TR-ND	701.00/M	FH23-15S-0.3SHAW(51)
17	7.6	HFQ17CT-ND	1.92	1.48	1.18	.98	HFQ17TR-ND	752.00/M	FH23-17S-0.3SHAW(51)
27	10.6	HFQ27CT-ND	2.28	1.75	1.40	1.17	HFQ27TR-ND	893.00/M	FH23-27S-0.3SHAW(51)
31	11.8	HFQ31CT-ND	2.41	1.85	1.48	1.23	HFQ31TR-ND	944.00/M	FH23-31S-0.3SHAW(51)
33	12.4	HFQ33CT-ND	2.50	1.93	1.54	1.28	HFQ33TR-ND	982.00/M	FH23-33S-0.3SHAW(51)
39	14.2	HFQ39CT-ND	2.76	2.13	1.70	1.42	HFQ39TR-ND	1084.00/M	FH23-39S-0.3SHAW(51)
45	16.0	HFQ45CT-ND	3.06	2.35	1.88	1.57	HFQ45TR-ND	1199.00/M	FH23-45S-0.3SHAW(51)
51	17.8	HFQ51CT-ND	3.02	2.34	1.88	1.51	HFQ51TR-ND	1326.00/M	FH23-51S-0.3SHAW(51)
61	20.8	HFQ61CT-ND	3.34	2.59	2.07	1.67	HFQ61TR-ND	1466.00/M	FH23-61S-0.3SHAW(51)
					Leaded				
17	7.6	HFQ117CT-ND	1.92	1.48	1.18	.98	HFQ117TR-ND	752.00/M	FH23-17S-0.3SHW(51)
21	8.8	HFQ221CT-ND†	2.41	1.85	1.48	1.23	HFQ221TR-ND†	944.00/M	FH23-21S-0.3SHW(05)
21	8.8	HFQ121CT-ND	2.08	1.60	1.28	1.07	HFQ121TR-ND	816.00/M	FH23-21S-0.3SHW(51)
25	10.0	HFQ125CT-ND	2.21	1.70	1.36	1.13	HFQ125TR-ND	867.00/M	FH23-25S-0.3SHW(51)
27	10.6	HFQ127CT-ND	2.28	1.75	1.40	1.17	HFQ127TR-ND	893.00/M	FH23-27S-0.3SHW(51)
31	11.8	HFQ131CT-ND	2.41	1.85	1.48	1.23	HFQ131TR-ND	944.00/M	FH23-31S-0.3SHW(51)
33	12.4	HFQ133CT-ND	2.50	1.93	1.54	1.28	HFQ133TR-ND	982.00/M	FH23-33S-0.3SHW(51)
39	14.2	HFQ139CT-ND	2.76	2.13	1.70	1.42	HFQ139TR-ND	1084.00/M	FH23-39S-0.3SHW(51)
61	20.8	HFQ161CT-ND	3.34	2.59	2.07	1.67	HFQ161TR-ND	1466.00/M	FH23-61S-0.3SHW(51)

† Gold Plating

FH18 Series (0.3mm Pitch)
Flex Connectors Low Profile

Dim. in mm.

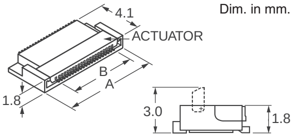

(Lead is included)

Features: • Contact spacing (pitch) 0.3mm • Flexible printed circuits (FPC) with contact spacing of 0.3mm are used with increased frequency (These connectors occupy less board space and are lighter than comparable connectors with contacts spaced at 0.5mm) **Applications:** • Consumer electronics, portable equipment, cameras, PDA's and other devices where board space and component packaging requires ultra small interconnection. **Specifications:** • Current Rating: 0.15A • Temperature Range: -40°C ~ 70°C • Voltage Rating: 30VAC **Materials:** • Insulators: LCP, Body - beige; Latch - Black; UL94V-0 • Contacts: Phosphor bronze, tin-lead plated; Metal Fitting: Bronze, tin-lead plated

No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape & Reel Pricing 2,500	Hirose Part No.
17	7.6	4.8	HFM17CT-ND	1.69	1.30	1.04	.87	HFM17TR-ND	663.00/M	FH18-17S-0.3SHW
21	8.8	6.0	HFM21CT-ND	1.72	1.33	1.06	.88	HFM21TR-ND	676.00/M	FH18-21S-0.3SHW
25	10.0	7.2	HFM25CT-ND	1.92	1.48	1.18	.98	HFM25TR-ND	752.00/M	FH18-25S-0.3SHW
27	10.6	7.8	HFM27CT-ND	1.92	1.48	1.18	.98	HFM27TR-ND	752.00/M	FH18-27S-0.3SHW
39	14.2	11.4	HFM39CT-ND	2.21	1.70	1.36	1.13	HFM39TR-ND	867.00/M	FH18-39S-0.3SHW
51	17.8	15.0	HFM51CT-ND	2.50	1.93	1.54	1.28	HFM51TR-ND	982.00/M	FH18-51S-0.3SHW

NEW! FH26 Series (0.3mm Pitch)
Flexible Printed Circuit ZIF Connectors

Dim. in mm.

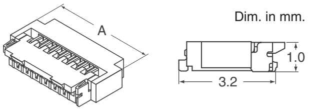

Features: • Space saving design: connector height is 1.0mm and the depth of the mounting area is 3.2mm • Flip lock actuator allows easy insertion of FPC • Metal FPC insertion guide makes it easy to insert FPC **Applications:** • Mobile phone, LCD application, digital video camera, digital camera, PDA, camera module, compact electronic equipment **Specifications:** • Current Rating: 0.2A • Voltage Rating: 30VAC • Operating Temperature: -55°C ~ 85°C **Materials:** • Insulator: Poliamide, LCP, black, UL94V-0 • Actuator PA, dark brown, UL94V-0 • Contacts: Phosphor bronze, tin-lead plated • Metal fitting: Phosphor bronze, tin plated (lead free)

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape & Reel Pricing 5,000	Hirose Part No.
13	5.4	HFQ313CT-ND	2.29	1.77	1.42	1.18	HFQ313TR-ND	883.00/M	FH26-13S-0.3SHW(05)
15	6.0	HFQ315CT-ND	2.36	1.82	1.45	1.21	HFQ315TR-ND	906.00/M	FH26-15S-0.3SHW(05)
17	6.6	HFQ317CT-ND	2.48	1.91	1.53	1.27	HFQ317TR-ND	954.00/M	FH26-17S-0.3SHW(05)
21	7.8	HFQ321CT-ND	2.61	2.01	1.61	1.34	HFQ321TR-ND	1003.00/M	FH26-21S-0.3SHW(05)
23	8.4	HFQ323CT-ND	2.73	2.10	1.68	1.40	HFQ323TR-ND	1050.00/M	FH26-23S-0.3SHW(05)
25	9.0	HFQ325CT-ND	2.79	2.15	1.72	1.43	HFQ325TR-ND	1074.00/M	FH26-25S-0.3SHW(05)
27	9.6	HFQ327CT-ND	2.85	2.20	1.76	1.46	HFQ327TR-ND	1098.00/M	FH26-27S-0.3SHW(05)
29	10.2	HFQ329CT-ND	2.98	2.29	1.84	1.53	HFQ329TR-ND	1145.00/M	FH26-29S-0.3SHW(05)
31	10.8	HFQ331CT-ND	3.04	2.34	1.87	1.56	HFQ331TR-ND	1169.00/M	FH26-31S-0.3SHW(05)
33	11.4	HFQ333CT-ND	3.10	2.39	1.91	1.59	HFQ333TR-ND	1193.00/M	FH26-33S-0.3SHW(05)
35	12.0	HFQ335CT-ND	3.22	2.48	1.99	1.65	HFQ335TR-ND	1240.00/M	FH26-35S-0.3SHW(05)
39	13.2	HFQ339CT-ND	2.99	2.32	1.86	1.50	HFQ339TR-ND	1288.00/M	FH26-39S-0.3SHW(05)
41	13.8	HFQ341CT-ND	3.10	2.41	1.93	1.56	HFQ341TR-ND	1338.00/M	FH26-41S-0.3SHW(05)
45	15.0	HFQ345CT-ND	3.22	2.50	2.00	1.61	HFQ345TR-ND	1388.00/M	FH26-45S-0.3SHW(05)
51	16.8	HFQ351CT-ND	3.48	2.70	2.16	1.74	HFQ351TR-ND	1500.00/M	FH26-51S-0.3SHW(05)
57	18.6	HFQ357CT-ND	3.77	2.93	2.34	1.89	HFQ357TR-ND	1625.00/M	FH26-57S-0.3SHW(05)
61	19.8	HFQ361CT-ND	3.89	3.02	2.42	1.95	HFQ361TR-ND	1675.00/M	FH26-61S-0.3SHW(05)
71	22.8	HFQ371CT-ND	4.26	3.31	2.65	2.14	HFQ371TR-ND	1838.00/M	FH26-71S-0.3SHW(05)

FH19 and FH19S Series Flex Connectors (0.5mm Pitch) Flat Flex Cable and Flexible Printed Circuit

Dim. in mm.

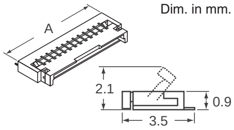

Features: • Conductive traces on the PCB can be designed to run under the connector. All bottom surface of the connector is solid, without any exposure of the contact • Accepts 0.2mm and 0.3mm thick FPC and FFC, easily inserted in the connector • The connector will also terminate successfully with 0.2mm thick Flat Flexible Cable (FFC) **Applications:** • Notebook PC's, PDA's, digital cameras and other compact devices requiring interconnection of the main circuit board with the LCD, plasma display (PDP), HDD or other devices **Specifications:** • Current Rating: 0.5A DC • Voltage Rating: 50VAC • Operating Temperature: -55°C ~ 80°C • Operating Humidity Range: relative humidity 90% maximum (No condensation) • Insulation Resistance: 500MΩ minimum @ 100VDC • Contact Resistance: 100mΩ maximum @ 1mA (Including FPC/FFC conductor resistance) • FH19 Series: Thickness: = 0.2 ± 0.03mm tinned copper or pure tin plating* • FH19S Series: Thickness: = 0.3 ± 0.03mm tinned copper or pure tin plating* **Materials:** • Insulators: LCP — beige; PPS — FH19 Series: Dark brown, FH19S Series: Black; all UL94V-0 • Contacts: Phosphor bronze, pure tin plating* • Metal fittings: Phosphor bronze, pure tin reflow plating

***Note:** When FPC is gold plated, connector contacts should also be gold plated*

No. of Pos.	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Digi-Key Part No.	Tape & Reel Pricing 5,000	Hirose Part No.
9	6.5	HFN09CT-ND	1.67	1.39	1.03	.86	HFN09TR-ND	643.00/M	FH19-9S-0.5SH(51)
13	8.5	HFN13CT-ND	1.82	1.51	1.12	.93	HFN13TR-ND	699.00/M	FH19-13S-0.5SH(51)

† Gold Plating ◆ ***RoHS Compliant***

(Continued)

HIROSE ELECTRIC CO.,LTD.

High Density FFC/FPC Connectors

FH19 and FH19S Series Flex Connectors (0.5mm Pitch) Flat Flex Cable and Flexible Printed Circuit *(Cont.)*

No. of Pos.	Dimension A (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Digi-Key Part No.	Tape & Reel Pricing 5,000	Hirose Part No.
17	10.5	HFN17CT-ND	1.91	1.59	1.18	.98	HFN17TR-ND	734.00/M	FH19-17S-0.5SH(51)
20	12.0	HFN20CT-ND	2.03	1.69	1.26	1.04	HFN20TR-ND	783.00/M	FH19-20S-0.5SH(51)
30	17.0	HFN30CT-ND	2.39	1.99	1.47	1.23	HFN30TR-ND	919.00/M	FH19-30S-0.5SH(51)
9	6.5	HFN109CT-ND†	1.80	1.50	1.11	.93	HFN109TR-ND†	694.00/M	FH19-9S-0.5SH(05)
13	8.5	HFN113CT-ND†	2.01	1.67	1.24	1.03	HFN113TR-ND†	771.00/M	FH19-13S-0.5SH(05)
17	10.5	HFN117CT-ND†	2.16	1.80	1.33	1.11	HFN117TR-ND†	830.00/M	FH19-17S-0.5SH(05)
20	12.0	HFN120CT-ND†	2.33	1.94	1.44	1.19	HFN120TR-ND†	895.00/M	FH19-20S-0.5SH(05)
30	17.0	HFN130CT-ND†	2.83	2.36	1.75	1.45	HFN130TR-ND†	1089.00/M	FH19-30S-0.5SH(05)
12	8.0	HFN212CT-ND	1.75	1.45	1.08	.90	HFN212TR-ND	671.00/M	FH19S-12S-0.5SH(51)
17	10.5	HFN217CT-ND	1.91	1.59	1.18	.98	HFN217TR-ND	734.00/M	FH19S-17S-0.5SH(51)
18	11.0	HFN218CT-ND	1.97	1.64	1.22	1.01	HFN218TR-ND	758.00/M	FH19S-18S-0.5SH(51)
20	12.0	HFN220CT-ND	2.03	1.69	1.26	1.04	HFN220TR-ND	783.00/M	FH19S-20S-0.5SH(51)
22	13.0	HFN222CT-ND	2.11	1.75	1.30	1.08	HFN222TR-ND	810.00/M	FH19S-22S-0.5SH(51)
24	14.0	HFN224CT-ND	2.18	1.81	1.34	1.12	HFN224TR-ND	838.00/M	FH19S-24S-0.5SH(51)
26	15.0	HFN226CT-ND	2.26	1.88	1.39	1.16	HFN226TR-ND	869.00/M	FH19S-26S-0.5SH(51)
27	15.5	HFN227CT-ND	2.31	1.93	1.43	1.19	HFN227TR-ND	890.00/M	FH19S-27S-0.5SH(51)
50	27.0	HFN228CT-ND	2.96	2.45	1.84	1.48	HFN228TR-ND	1275.00/M	FH19S-50S-0.5SH(51)
50	27.0	HFN350CT-ND◆ ***NEW!***	3.60	2.98	2.24	1.80	HFN350TR-ND◆ ***NEW!***	1550.00/M	FH19S-50S-0.5SH(05)
12	8.0	HFN312CT-ND†	1.92	1.60	1.19	.99	HFN312TR-ND†	740.00/M	FH19S-12S-0.5SH(05)
17	10.5	HFN317CT-ND†	2.16	1.80	1.33	1.11	HFN317TR-ND†	830.00/M	FH19S-17S-0.5SH(05)
18	11.0	HFN318CT-ND†	2.24	1.86	1.38	1.15	HFN318TR-ND†	860.00/M	FH19S-18S-0.5SH(05)
20	12.0	HFN320CT-ND†	2.33	1.94	1.44	1.19	HFN320TR-ND†	895.00/M	FH19S-20S-0.5SH(05)
22	13.0	HFN322CT-ND†	2.43	2.02	1.50	1.24	HFN322TR-ND†	934.00/M	FH19S-22S-0.5SH(05)
24	14.0	HFN324CT-ND†	2.53	2.11	1.56	1.30	HFN324TR-ND†	974.00/M	FH19S-24S-0.5SH(05)
26	15.0	HFN326CT-ND†	2.64	2.20	1.63	1.35	HFN326TR-ND†	1016.00/M	FH19S-26S-0.5SH(05)
27	15.5	HFN327CT-ND†	2.71	2.26	1.67	1.39	HFN327TR-ND†	1043.00/M	FH19S-27S-0.5SH(05)

† Gold Plating ◆ ***RoHS Compliant***

0.5mm and 1.0mm Flex Connectors

FH12, FH12A, FH12F and F12S Series — "Flip-Lock" SMT/ZIF Type Flexible Printed Circuit Board Connectors

The FH12 Series of miniature connectors for FPC/FFC use brings form to the newly developed "flip-lock" concept and can be used with SMT (surface mount technology) to eliminate the problems of the contemporary slide-lock system. These connectors have a contact spacing of 0.5mm, are suited to high density mounting, and are based on a single-action ZIF (zero insertion force) structure for easy connections. Types with top or bottom contacts, and vertical mounting are available to suit your applications. **Materials/Finish: • Insulation:** Polyamide Resin, beige; PPS Resin, dark brown (UL94V-0) **• Contacts**: Phosphor Bronze, solder plating **Electrical: • Rated Current**: 0.4A **• Insulation Resistance**: 500MΩ or greater at 100VDC **• Withstanding Voltage**: 150VAC for one minute **• Contact Resistance**: 50mΩ or less *(**Note:** When all conductors are to continuously carry the rated current, set the current to 70% of the rated current value.)*

Fig. 1

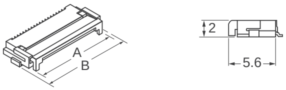

Fig. 2

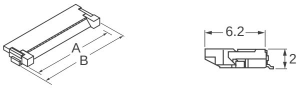

Fig. 3

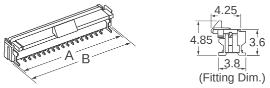

Dim. in mm.

Fig.	No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape & Reel Size	Pricing	Hirose Part No.
							.5mm Horizontal Mount — Bottom Contact Type					
1	6	6.1	7.1	HFJ06CT-ND	1.88	1.36	1.12	.94	HFJ06TR-ND	2,000	642.00/M	FH12-6S-0.5SH
	10	8.1	9.1	HFJ10CT-ND	1.79	1.38	1.11	.92	HFJ10TR-ND	2,000	704.00/M	FH12-10S-0.5SH
	11	8.6	9.6	HFJ11CT-ND	1.84	1.42	1.14	.94	HFJ11TR-ND	2,000	722.00/M	FH12-11S-0.5SH
	12	9.1	10.1	HFJ12CT-ND	1.84	1.42	1.14	.94	HFJ12TR-ND	2,000	722.00/M	FH12-12S-0.5SH
	13	9.6	10.6	HFJ13CT-ND	1.89	1.46	1.17	.97	HFJ13TR-ND	2,000	741.00/M	FH12-13S-0.5SH
	14	10.1	11.1	HFJ14CT-ND	1.93	1.49	1.19	.99	HFJ14TR-ND	2,000	759.00/M	FH12-14S-0.5SH
	15	10.6	11.6	HFJ15CT-ND	1.98	1.53	1.22	1.02	HFJ15TR-ND	2,000	778.00/M	FH12-15S-0.5SH
	16	11.1	12.1	HFJ16CT-ND	1.98	1.53	1.22	1.02	HFJ16TR-ND	2,000	778.00/M	FH12-16S-0.5SH
	17	11.6	12.6	HFJ17CT-ND	2.08	1.60	1.28	1.07	HFJ17TR-ND	2,000	815.00/M	FH12-17S-0.5SH
	18	12.1	13.1	HFJ18CT-ND	2.12	1.64	1.31	1.09	HFJ18TR-ND	2,000	833.00/M	FH12-18S-0.5SH
	19	12.6	13.6	HFJ19CT-ND	2.12	1.64	1.31	1.09	HFJ19TR-ND	2,000	833.00/M	FH12-19S-0.5SH
	20	13.1	14.1	HFJ20CT-ND	2.17	1.67	1.34	1.11	HFJ20TR-ND	2,000	852.00/M	FH12-20S-0.5SH
	22	14.1	15.1	HFJ22CT-ND	2.27	1.75	1.40	1.16	HFJ22TR-ND	2,000	889.00/M	FH12-22S-0.5SH
	24	15.1	16.1	HFJ24CT-ND	2.36	1.82	1.46	1.21	HFJ24TR-ND	2,000	926.00/M	FH12-24S-0.5SH
	26	16.1	17.1	HFJ26CT-ND	2.41	1.86	1.49	1.23	HFJ26TR-ND	2,000	945.00/M	FH12-26S-0.5SH
	28	17.1	18.1	HFJ28CT-ND	2.50	1.93	1.54	1.28	HFJ28TR-ND	2,000	982.00/M	FH12-28S-0.5SH
	30	18.1	19.1	HFJ30CT-ND	2.55	1.96	1.57	1.31	HFJ30TR-ND	2,000	1000.00/M	FH12-30S-0.5SH
	32	19.1	20.1	HFJ32CT-ND	2.64	2.04	1.63	1.35	HFJ32TR-ND	2,000	1037.00/M	FH12-32S-0.5SH
	33	19.6	20.6	HFJ33CT-ND	2.74	2.11	1.69	1.40	HFJ33TR-ND	2,000	1074.00/M	FH12-33S-0.5SH
	34	20.1	21.1	HFJ34CT-ND	2.74	2.11	1.69	1.40	HFJ34TR-ND	2,000	1074.00/M	FH12-34S-0.5SH
	36	21.1	22.1	HFJ36CT-ND	2.97	2.29	1.83	1.52	HFJ36TR-ND	2,000	1167.00/M	FH12-36S-0.5SH
	40	23.1	24.1	HFJ40CT-ND	3.11	2.40	1.92	1.60	HFJ40TR-ND	2,000	1221.00/M	FH12-40S-0.5SH
	45	25.6	26.6	HFJ45CT-ND	2.99	2.32	1.86	1.50	HFJ45TR-ND	2,000	1313.00/M	FH12-45S-0.5SH
	50	28.1	29.1	HFJ50CT-ND	3.16	2.46	1.97	1.59	HFJ50TR-ND	2,000	1390.00/M	FH12-50S-0.5SH
	53	29.6	30.6	HFJ53CT-ND	3.28	2.55	2.04	1.64	HFJ53TR-ND	2,000	1441.00/M	FH12-53S-0.5SH
							.5mm Horizontal Mount — Top Contact Type					
2	10	8.35	9.1	HFK10CT-ND	1.60	1.16	.95	.80	HFK10TR-ND	2,000	547.00/M	FH12A-10S-0.5SH
	12	10.1	10.5	HFK12CT-ND	1.66	1.20	.99	.83	HFK12TR-ND	2,000	567.00/M	FH12A-12S-0.5SH
	15	11.6	12.0	HFK15CT-ND	1.82	1.32	1.08	.92	HFK15TR-ND	2,000	623.00/M	FH12A-15S-0.5SH
	16	11.35	12.1	HFK16CT-ND	1.88	1.36	1.12	.94	HFK16TR-ND	2,000	642.00/M	FH12A-16S-0.5SH
	18	13.1	13.5	HFK18CT-ND	1.65	1.27	1.02	.85	HFK18TR-ND	2,000	648.00/M	FH12A-18S-0.5SH
	20	13.35	14.1	HFK20CT-ND	1.79	1.38	1.11	.92	HFK20TR-ND	2,000	704.00/M	FH12A-20S-0.5SH
	22	15.1	15.5	HFK22CT-ND	1.89	1.46	1.17	.97	HFK22TR-ND	2,000	741.00/M	FH12A-22S-0.5SH
	24	15.35	16.1	HFK24CT-ND	1.93	1.49	1.19	.99	HFK24TR-ND	2,000	759.00/M	FH12A-24S-0.5SH
	26	17.1	17.5	HFK26CT-ND	2.08	1.60	1.28	1.07	HFK26TR-ND	2,000	815.00/M	FH12A-26S-0.5SH
	29	18.6	19.0	HFK29CT-ND	2.17	1.67	1.34	1.11	HFK29TR-ND	2,000	852.00/M	FH12A-29S-0.5SH
	30	18.35	19.1	HFK30CT-ND	2.22	1.71	1.37	1.14	HFK30TR-ND	2,000	871.00/M	FH12A-30S-0.5SH
	32	20.1	20.5	HFK32CT-ND	2.27	1.75	1.40	1.16	HFK32TR-ND	2,000	889.00/M	FH12A-32S-0.5SH
	33	20.6	21.0	HFK33CT-ND	2.36	1.82	1.46	1.21	HFK33TR-ND	2,000	926.00/M	FH12A-33S-0.5SH
	34	21.1	21.5	HFK34CT-ND	2.41	1.86	1.49	1.23	HFK34TR-ND	2,000	945.00/M	FH12A-34S-0.5SH
	36	22.1	22.5	HFK36CT-ND	2.45	1.89	1.51	1.26	HFK36TR-ND	2,000	963.00/M	FH12A-36S-0.5SH
	40	23.35	24.1	HFK40CT-ND	2.69	2.07	1.66	1.38	HFK40TR-ND	2,000	1056.00/M	FH12A-40S-0.5SH
	42	25.1	25.5	HFK42CT-ND	2.79	2.15	1.72	1.43	HFK42TR-ND	2,000	1093.00/M	FH12A-42S-0.5SH
	45	26.6	27.0	HFK45CT-ND	2.93	2.25	1.80	1.50	HFK45TR-ND	2,000	1148.00/M	FH12A-45S-0.5SH
	50	28.35	29.1	HFK50CT-ND	3.11	2.40	1.92	1.60	HFK50TR-ND	2,000	1221.00/M	FH12A-50S-0.5SH
							.5mm Vertical Mount					
3	10	6.9	8.4	HFL10CT-ND	1.60	1.16	.95	.80	HFL10TR-ND	1,000	560.00	FH12-10S-0.5SV
	12	7.9	9.4	HFL12CT-ND	1.66	1.20	.99	.83	HFL12TR-ND	1,000	580.00	FH12-12S-0.5SV
	13	8.4	9.9	HFL13CT-ND	1.77	1.28	1.05	.89	HFL13TR-ND	1,000	618.00	FH12-13S-0.5SV
	15	9.4	10.9	HFL15CT-ND	1.88	1.36	1.12	.94	HFL15TR-ND	1,000	657.00	FH12-15S-0.5SV
	16	9.9	11.4	HFL16CT-ND	1.88	1.36	1.12	.94	HFL16TR-ND	1,000	657.00	FH12-16S-0.5SV
	17	10.4	11.9	HFL17CT-ND	1.65	1.27	1.02	.85	HFL17TR-ND	1,000	676.00	FH12-17S-0.5SV
	18	10.9	12.4	HFL18CT-ND	1.70	1.31	1.05	.87	HFL18TR-ND	1,000	696.00	FH12-18S-0.5SV
	20	11.9	13.4	HFL20CT-ND	1.84	1.42	1.14	.94	HFL20TR-ND	1,000	753.00	FH12-20S-0.5SV
	22	12.9	14.4	HFL22CT-ND	1.93	1.49	1.19	.99	HFL22TR-ND	1,000	791.00	FH12-22S-0.5SV

(Continued)

HIROSE ELECTRIC CO.,LTD.

0.5mm and 1.0mm Flex Connectors *(Cont.)*

Fig.	No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape & Reel Size	Pricing	Hirose Part No.
3	24	13.9	15.4	HFL24CT-ND	1.98	1.53	1.22	1.02	HFL24TR-ND	1,000	811.00	FH12-24S-0.5SV
	26	14.9	16.4	HFL26CT-ND	2.10	1.62	1.29	1.08	HFL26TR-ND	1,000	858.00	FH12-26S-0.5SV
	30	16.9	18.4	HFL30CT-ND	2.27	1.75	1.40	1.16	HFL30TR-ND	1,000	927.00	FH12-30S-0.5SV
	32	17.9	19.4	HFL32CT-ND	2.38	1.83	1.47	1.22	HFL32TR-ND	1,000	974.00	FH12-32S-0.5SV
	33	18.4	19.9	HFL33CT-ND	2.45	1.89	1.51	1.26	HFL33TR-ND	1,000	1004.00	FH12-33S-0.5SV
	34	18.9	20.4	HFL34CT-ND	2.46	1.90	1.52	1.26	HFL34TR-ND	1,000	1008.00	FH12-34S-0.5SV
	36	19.9	21.4	HFL36CT-ND	2.50	1.93	1.54	1.28	HFL36TR-ND	1,000	1024.00	FH12-36S-0.5SV
	40	21.9	23.4	HFL40CT-ND	2.79	2.15	1.72	1.43	HFL40TR-ND	1,000	1140.00	FH12-40S-0.5SV
	45	24.4	25.9	HFL45CT-ND	3.02	2.33	1.86	1.55	HFL45TR-ND	1,000	1236.00	FH12-45S-0.5SV
	49	26.4	27.9	HFL49CT-ND	3.21	2.47	1.98	1.64	HFL49TR-ND	1,000	1313.00	FH12-49S-0.5SV
	50	26.9	28.4	HFL50CT-ND	2.90	2.25	1.80	1.45	HFL50TR-ND	1,000	1300.00	FH12-50S-0.5SV
.5mm Horizontal Mount — Bottom Contact Type with 0.18mm FPC End Thickness												
1	6	6.1	7.1	HFR06CT-ND	1.88	1.36	1.12	.94	HFR06TR-ND	2,000	642.00/M	FH12F-6S-0.5SH
	10	8.1	9.1	HFR10CT-ND	1.70	1.31	1.05	.87	HFR10TR-ND	2,000	667.00/M	FH12F-10S-0.5SH
	12	9.1	10.1	HFR12CT-ND	1.84	1.42	1.14	.94	HFR12TR-ND	2,000	722.00/M	FH12F-12S-0.5SH
	13	9.6	10.6	HFR13CT-ND	1.89	1.46	1.17	.97	HFR13TR-ND	2,000	741.00/M	FH12F-13S-0.5SH
	14	10.1	11.1	HFR14CT-ND	1.93	1.49	1.19	.99	HFR14TR-ND	2,000	759.00/M	FH12F-14S-0.5SH
	15	10.6	11.6	HFR15CT-ND	1.98	1.53	1.22	1.02	HFR15TR-ND	2,000	778.00/M	FH12F-15S-0.5SH
	16	11.1	12.1	HFR16CT-ND	2.08	1.60	1.28	1.07	HFR16TR-ND	2,000	815.00/M	FH12F-16S-0.5SH
	18	12.1	13.1	HFR18CT-ND	2.12	1.64	1.31	1.09	HFR18TR-ND	2,000	833.00/M	FH12F-18S-0.5SH
	20	13.1	14.1	HFR20CT-ND	2.17	1.67	1.34	1.11	HFR20TR-ND	2,000	852.00/M	FH12F-20S-0.5SH
	22	14.1	15.1	HFR22CT-ND	2.27	1.75	1.40	1.16	HFR22TR-ND	2,000	889.00/M	FH12F-22S-0.5SH
	24	15.1	16.1	HFR24CT-ND	2.36	1.82	1.46	1.21	HFR24TR-ND	2,000	926.00/M	FH12F-24S-0.5SH
	26	16.1	17.1	HFR26CT-ND	2.41	1.86	1.49	1.23	HFR26TR-ND	2,000	945.00/M	FH12F-26S-0.5SH
	28	17.1	18.1	HFR28CT-ND	2.50	1.93	1.54	1.28	HFR28TR-ND	2,000	982.00/M	FH12F-28S-0.5SH
	30	18.1	19.1	HFR30CT-ND	2.64	2.04	1.63	1.35	HFR30TR-ND	2,000	1037.00/M	FH12F-30S-0.5SH
	32	19.1	20.1	HFR32CT-ND	2.74	2.11	1.69	1.40	HFR32TR-ND	2,000	1074.00/M	FH12F-32S-0.5SH
	34	20.1	21.1	HFR34CT-ND	2.74	2.11	1.69	1.40	HFR34TR-ND	2,000	1074.00/M	FH12F-34S-0.5SH
	36	21.1	22.1	HFR36CT-ND	2.97	2.29	1.83	1.52	HFR36TR-ND	2,000	1167.00/M	FH12F-36S-0.5SH
	40	23.1	24.1	HFR40CT-ND	3.11	2.40	1.92	1.60	HFR40TR-ND	2,000	1221.00/M	FH12F-40S-0.5SH
.5mm Horizontal Mount — Bottom Contact Type with Strengthened Lock Lever												
1	30	18.1	19.1	HFA30CT-ND	2.55	1.96	1.57	1.31	HFA30TR-ND	2,000	1000.00/M	FH12S-30S-0.5SH
	40	23.1	24.1	HFA40CT-ND	3.11	2.40	1.92	1.60	HFA40TR-ND	2,000	1221.00/M	FH12S-40S-0.5SH
	45	25.6	26.6	HFA45CT-ND	2.99	2.32	1.86	1.50	HFA45TR-ND	2,000	1313.00/M	FH12S-45S-0.5SH
	50	28.1	29.1	HFA50CT-ND	3.16	2.46	1.97	1.59	HFA50TR-ND	2,000	1390.00/M	FH12S-50S-0.5SH
	53	29.6	30.6	HFA53CT-ND	3.28	2.55	2.04	1.64	HFA53TR-ND	2,000	1441.00/M	FH12S-53S-0.5SH
1.0mm Horizontal Mount* — Bottom Contact Type												
1	5	8.6	9.6	HFB05CT-ND	1.21	.88	.72	.61	HFB05TR-ND	2,000	415.00/M	FH12-5S-1SH
	6	9.6	10.6	HFB06CT-ND	1.27	.92	.76	.64	HFB06TR-ND	2,000	434.00/M	FH12-6S-1SH
	7	10.6	11.6	HFB07CT-ND	1.33	.96	.79	.67	HFB07TR-ND	2,000	454.00/M	FH12-7S-1SH
	8	11.6	12.6	HFB08CT-ND	1.44	1.05	.86	.73	HFB08TR-ND	2,000	493.00/M	FH12-8S-1SH
	9	12.6	13.6	HFB09CT-ND	1.49	1.08	.89	.75	HFB09TR-ND	2,000	510.00/M	FH12-9S-1SH
	11	14.6	15.6	HFB11CT-ND	1.60	1.16	.95	.80	HFB11TR-ND	2,000	547.00/M	FH12-11S-1SH
	16	19.6	20.6	HFB16CT-ND	1.77	1.28	1.05	.89	HFB16TR-ND	2,000	605.00/M	FH12-16S-1SH
	22	25.6	26.6	HFB22CT-ND	1.70	1.31	1.05	.87	HFB22TR-ND	2,000	667.00/M	FH12-22S-1SH
	26	29.6	30.6	HFB26CT-ND	1.89	1.46	1.17	.97	HFB26TR-ND	2,000	741.00/M	FH12-26S-1SH
1.0mm Vertical Mount*												
3	6	8.4	9.9	HFC06CT-ND	1.60	1.16	.95	.80	HFC06TR-ND	1,000	560.00	FH12-6S-1SV
	7	9.4	10.9	HFC07CT-ND	1.66	1.20	.99	.83	HFC07TR-ND	1,000	580.00	FH12-7S-1.0SV
	8	10.4	11.9	HFC08CT-ND	1.77	1.28	1.05	.89	HFC08TR-ND	1,000	618.00	FH12-8S-1.0SV
	16	18.4	19.9	HFC16CT-ND	1.79	1.38	1.11	.92	HFC16TR-ND	1,000	734.00	FH12-16S-1SV
	20	22.4	23.9	HFC20CT-ND	1.98	1.53	1.22	1.02	HFC20TR-ND	1,000	811.00	FH12-20S-1.0SV
	22	24.4	25.9	HFC22CT-ND	2.12	1.64	1.31	1.09	HFC22TR-ND	1,000	868.00	FH12-22S-1.0SV
	24	26.4	27.9	HFC24CT-ND	2.22	1.71	1.37	1.14	HFC24TR-ND	1,000	908.00	FH12-24S-1.0SV

*** Note:** *The 1.0mm version of FH12 is constructed by loading every other contact into the 0.5mm housing.*

1mm Flex Connectors

1mm Pitch Flexible Printed Circuit Connectors (Figures 1 and 2)

Features: • High-density packaging achieved by 1mm pitch contacts • Dual-side contact construction allows FPC and FFC conductors to be inserted in either direction • Enhanced contact reliability through high contact pressure • Applicable to 0.25mm to 0.35mm thick flexible printed circuit boards • Uses PBT (UL94V-0) insulating materials which are highly resistant to solvents and high temperature • Kinked dip posts for board retention during wave soldering **Material/Finish:** • **Insulator**: Polybutylene Phthalate, black • **Contacts**: Phosphor Bronze, tin-lead plated **Electrical:** • **Rated Current**: 0.5A • **Insulation Resistance**: At 100VDC, 500MΩ minimum • **Withstanding Voltage**: 150VAC for 1 minute • **Contact Resistance**: 40mΩ maximum

SMT ZIF Type Flexible PCB Connectors (Figures 3 and 4)

Features: • Low profile type with 3mm packaged height; 1mm pitch permits high-density packaging • Excellent workability is offered by the ZIF structure which provides positive contact by only lightly inserting FPC/FFC and then pushing in the movable locking flap • Recommended thickness of flexible circuit board is 0.25mm to 0.30mm • PPS (UL94V-0) with excellent solvent resistance and high temperature resistance is used for the insulation material • The SMT type connectors permit high density and automatic packaging on circuit boards **Material/Finish:** • **Insulator**: PPS Resin, natural finish • **Contacts**: Phosphor Bronze, tin plating **Electrical:** • **Rated Current**: 0.5A • **Insulator Resistance**: 500MΩ at 100VDC minimum • **Withstanding Voltage**: 150VAC for 1 minute at specified value • **Contact Resistance**: 25mΩ maximum

Fig. 1

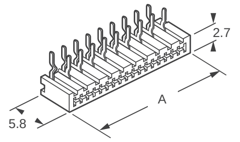

Fig. 2

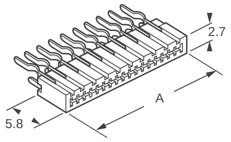

Fig. 3

Top Contact Type

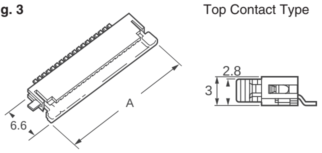

Fig. 4

Top Contact Type

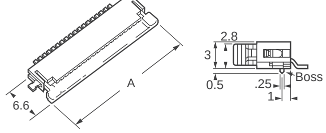

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Hirose Part No.
Fig. 1 - Right Angle							
5	7	HFG05T-ND	.60	.42	.29	.24	FH21-5S-1DS
6	8	HFG06T-ND	.60	.42	.29	.24	FH21-6S-1DS
8	10	HFG08T-ND	.57	.47	.34	.29	FH21-8S-1DS
10	12	HFG10T-ND	.68	.56	.41	.35	FH21-10S-1DS
12	14	HFG12T-ND	.80	.66	.48	.40	FH21-12S-1DS
14	16	HFG14T-ND	.91	.75	.54	.46	FH21-14S-1DS
15	17	HFG15T-ND	.99	.81	.59	.50	FH21-15S-1DS
16	18	HFG16T-ND	1.03	.84	.61	.52	FH21-16S-1DS
18	20	HFG18T-ND	1.10	.90	.66	.56	FH21-18S-1DS
20	22	HFG20T-ND	1.22	1.00	.72	.61	FH21-20S-1DS
22	24	HFG22T-ND	1.25	1.03	.75	.63	FH21-22S-1DS
24	26	HFG24T-ND	1.37	1.12	.81	.69	FH21-24S-1DS
26	28	HFG26T-ND	1.48	1.21	.88	.75	FH21-26S-1DS
28	30	HFG28T-ND	1.63	1.34	.97	.82	FH21-28S-1DS
30	32	HFG30T-ND	1.67	1.37	.99	.84	FH21-30S-1DS
Fig. 2 - Straight							
5	7	HFF05T-ND	.60	.42	.29	.24	FH21-5S-1DSA
6	8	HFF06T-ND	.60	.42	.29	.24	FH21-6S-1DSA
8	10	HFF08T-ND	.57	.47	.34	.29	FH21-8S-1DSA
10	12	HFF10T-ND	.65	.53	.39	.33	FH21-10S-1DSA
12	14	HFF12T-ND	.68	.56	.41	.35	FH21-12S-1DSA
14	16	HFF14T-ND	.76	.62	.45	.38	FH21-14S-1DSA
15	17	HFF15T-ND	.91	.75	.54	.46	FH21-15S-1DSA
16	18	HFF16T-ND	.87	.72	.52	.44	FH21-16S-1DSA
18	20	HFF18T-ND	1.03	.84	.61	.52	FH21-18S-1DSA
20	22	HFF20T-ND	1.10	.90	.66	.56	FH21-20S-1DSA
22	24	HFF22T-ND	1.14	.93	.68	.57	FH21-22S-1DSA
24	26	HFF24T-ND	1.22	1.00	.72	.61	FH21-24S-1DSA
26	28	HFF26T-ND	1.25	1.03	.75	.63	FH21-26S-1DSA
28	30	HFF28T-ND	1.44	1.18	.86	.73	FH21-28S-1DSA
30	32	HFF30T-ND	1.48	1.21	.88	.75	FH21-30S-1DSA
Fig. 3 - SMT Flex without Board Mount Boss							
7	13.2	HFE07F-ND	1.79	1.46	1.06	.90	FH10A-7S-1SH
8	14.2	HFE08F-ND	1.86	1.52	1.11	.94	FH10A-8S-1SH
12	18.2	HFE12F-ND	1.92	1.60	1.18	.98	FH10A-12S-1SH
14	20.2	HFE14F-ND	2.05	1.71	1.26	1.05	FH10A-14S-1SH
16	22.2	HFE16F-ND	2.24	1.87	1.38	1.15	FH10A-16S-1SH
17	23.2	HFE17F-ND	2.28	1.89	1.40	1.17	FH10A-17S-1SH
19	25.2	HFE19F-ND	2.02	1.68	1.24	1.03	FH10A-19S-1SH
20	26.2	HFE20F-ND	2.50	2.08	1.54	1.28	FH10A-20S-1SH
21	27.2	HFE21F-ND	2.15	1.79	1.32	1.10	FH10A-21S-1SH
24	30.2	HFE24F-ND	2.73	2.27	1.68	1.40	FH10A-24S-1SH
26	32.2	HFE26F-ND	3.06	2.54	1.88	1.57	FH10A-26S-1SH
27	33.2	HFE27F-ND	2.63	2.19	1.62	1.35	FH10A-27S-1SH
30	36.2	HFE30F-ND	2.99	2.48	1.86	1.50	FH10A-30S-1SH
Fig. 4 - SMT Flex with Board Mount Boss							
7	13.2	HFH07T-ND	1.79	1.46	1.06	.90	FH10A-7S-1SHB
8	14.2	HFH08T-ND	1.86	1.52	1.11	.94	FH10A-8S-1SHB
12	18.2	HFH12T-ND	1.92	1.60	1.18	.98	FH10A-12S-1SHB
14	20.2	HFH14T-ND	2.05	1.71	1.26	1.05	FH10A-14S-1SHB
16	22.2	HFH16T-ND	2.24	1.87	1.38	1.15	FH10A-16S-1SHB
17	23.2	HFH17T-ND	2.28	1.89	1.40	1.17	FH10A-17S-1SHB
19	25.2	HFH19T-ND	2.02	1.68	1.24	1.03	FH10A-19S-1SHB
20	26.2	HFH20T-ND	2.50	2.08	1.54	1.28	FH10A-20S-1SHB
21	27.2	HFH21T-ND	2.15	1.79	1.32	1.10	FH10A-21S-1SHB
24	30.2	HFH24T-ND	2.73	2.27	1.68	1.40	FH10A-24S-1SHB
26	32.2	HFH26T-ND	3.06	2.54	1.88	1.57	FH10A-26S-1SHB
27	33.2	HFH27T-ND	2.63	2.19	1.62	1.35	FH10A-27S-1SHB
30	36.2	HFH30T-ND	2.99	2.48	1.86	1.50	FH10A-30S-1SHB

0.5mm-Pitch Slide-Lock FPC Connector - XF2L

Low Profile SMT ZIF (Zero Insertion Force) Connectors Small Footprint Reduces Space on Circuit Boards

XF2L-xx25
Upper

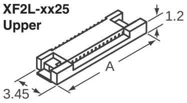

XF2L-xx35
Lower

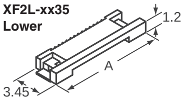

SPECIFICATIONS:

Rated Current: 0.5A **Rated Voltage:** 50 VDC **Withstanding Voltage:** 250VAC for 1 minute **Insertion Tolerance:** 30 times

Features: • Low profile, measures 1.2 mm maximum above the board • Top and bottom contact styles have identical dimensions, utilize the same PCB layout for board design • Hold-down terminal improves connection stability during soldering • Slide mechanism locks securely • Connectors supplied on tape reels for automatic insertion; color coded slide identifies top and bottom contact versions to avoid mix-ups during production.

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing		Omron Part No.
			1	25	50	100		3,000	6,000	
4	6.9	OR675CT-ND	.73	.66	.58	.53	—	—	—	XF2L-0425-1
6	7.9	OR677CT-ND	.78	.70	.62	.56	OR677TR-ND	387.50/M	372.00/M	XF2L-0625-1
7	8.4	OR678CT-ND	.83	.75	.66	.60	—	—	—	XF2L-0725-1
7	8.4	OR679CT-ND*	.88	.80	.71	.64	OR679TR-ND*	441.63/M	423.96/M	XF2L-0735-1
8	8.9	OR680CT-ND	.85	.77	.68	.62	—	—	—	XF2L-0825-1
8	8.9	OR681CT-ND*	.85	.77	.68	.62	—	—	—	XF2L-0835-1
10	9.9	OR682CT-ND	.93	.84	.74	.67	—	—	—	XF2L-1025-1
12	10.9	OR683CT-ND*	.98	.88	.78	.71	OR683TR-ND*	487.50/M	468.00/M	XF2L-1235-1
13	11.4	OR684CT-ND	1.03	.93	.82	.74	OR684TR-ND	512.50/M	492.00/M	XF2L-1325-1
13	11.4	OR685CT-ND*	1.03	.93	.82	.74	—	—	—	XF2L-1335-1
15	12.4	OR686CT-ND*	1.05	.95	.84	.76	OR686TR-ND*	525.00/M	504.00/M	XF2L-1535-1
18	13.9	OR687CT-ND*	1.23	1.11	.98	.89	OR687TR-ND*	612.50/M	588.00/M	XF2L-1835-1
21	15.4	OR689CT-ND	1.30	1.17	1.04	.94	OR689TR-ND	650.00/M	624.00/M	XF2L-2125-1
22	15.9	OR690CT-ND*	1.33	1.20	1.06	.96	OR690TR-ND*	662.50/M	636.00/M	XF2L-2235-1
26	17.9	OR691CT-ND	1.45	1.31	1.16	1.05	OR691TR-ND	725.00/M	696.00/M	XF2L-2625-1
30	19.9	OR692CT-ND	1.60	1.44	1.28	1.16	OR692TR-ND	800.00/M	768.00/M	XF2L-3025-1
30	19.9	OR693CT-ND*	1.60	1.44	1.28	1.16	OR693TR-ND*	800.00/M	768.00/M	XF2L-3035-1
NEW! XF2L — RoHS Compliant NEW!										
4	6.9	OR746CT-ND	.56	.51	.45	.41	OR746TR-ND	280.00/M	268.80/M	XF2L-0425-1A
5	7.4	OR747CT-ND*	.60	.54	.48	.43	OR747TR-ND*	296.25/M	284.40/M	XF2L-0535-1A
6	7.9	OR748CT-ND	.62	.56	.50	.45	OR748TR-ND	308.75/M	296.40/M	XF2L-0625-1A
6	7.9	OR749CT-ND*	.58	.52	.47	.42	OR749TR-ND*	288.75/M	277.20/M	XF2L-0635-1A
7	8.4	OR750CT-ND	.66	.59	.52	.47	OR750TR-ND	325.00/M	312.00/M	XF2L-0725-1A
8	8.9	OR751CT-ND	.68	.61	.54	.49	OR751TR-ND	337.50/M	324.00/M	XF2L-0825-1A
10	9.9	OR752CT-ND	.74	.66	.59	.53	OR752TR-ND	366.25/M	351.60/M	XF2L-1025-1A
12	10.9	OR753CT-ND	.80	.72	.64	.58	OR753TR-ND	398.75/M	382.80/M	XF2L-1225-1A
18	13.9	OR754CT-ND*	.98	.88	.78	.71	OR754TR-ND*	487.50/M	468.00/M	XF2L-1835-1A

* Lower Contact Type

0.5mm-Pitch Rotary-Lock FPC Connector - XF2H

SMT ZIF (Zero Insertion Force) Improves Assembly Reliability and Manufacturing Efficiency

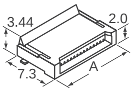

SPECIFICATIONS: **Rated Current:** 0.5A **Rated Voltage:** 50VDC **Withstanding Voltage:** 250VzAC for 1 minute **Insertion Tolerance:** 20 times

Features: • Rotary-lock at rear instead of front simplifies assembly, provides secure connection even if cable flexes upward • FPC housing design ensures reliable alignment of circuits during assembly, unaffected by rotary-lock • Double-sided contacts can be used wherever top or bottom connection is needed, reducing part numbers on bill of materials • Low profile, measures only 2mm maximum above the circuit board

Note: "Not for New Design" — Currently this Series is being replaced by XF2M Series

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing		Omron Part No.
			1	25	50	100		1,500	6,000	
12	10.1	OC640CT-ND	.63	.57	.51	.46	OC640TR-ND	313.26/M	300.72/M	XF2H-1215-1LW
14	11.1	OC642CT-ND	1.03	.93	.82	.74	—	—	—	XF2H-1415-1LW
22	15.1	OC646CT-ND	.89	.80	.71	.64	OC646TR-ND	443.63/M	425.88/M	XF2H-2215-1LW
26	17.1	OC648CT-ND	1.33	1.20	1.06	.96	OC648TR-ND	662.50/M	636.00/M	XF2H-2615-1LW
30	19.1	OC649CT-ND	1.38	1.24	1.10	.99	—	—	—	XF2H-3015-1LW
32	20.1	OC650CT-ND	1.15	1.04	.92	.83	OC650TR-ND	574.50/M	551.52/M	XF2H-3215-1LW
33	20.6	OC651CT-ND	1.62	1.46	1.30	1.17	OC651TR-ND	807.63/M	775.32/M	XF2H-3315-1LW
34	21.1	OC652CT-ND	1.20	1.09	.97	.87	—	—	—	XF2H-3415-1LW
36	22.1	OC654CT-ND	1.63	1.47	1.30	1.17	OC654TR-ND	812.50/M	780.00/M	XF2H-3615-1LW
38	23.1	OC655CT-ND	1.65	1.49	1.32	1.19	OC655TR-ND	825.00/M	792.00/M	XF2H-3815-1LW
40	24.1	OC656CT-ND	1.68	1.51	1.34	1.21	OC656TR-ND	837.50/M	804.00/M	XF2H-4015-1LW
50	29.1	OC658CT-ND	1.85	1.67	1.48	1.34	OC658TR-ND	925.00/M	888.00/M	XF2H-5015-1LW

0.5mm-Pitch Vertical Slide-Lock FPC Connector - XF2J

SMT ZIF (Zero Insertion Force) Connector with Low Profile, Top Entry Ideal for Automated Assembly Processes

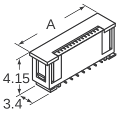

SPECIFICATIONS:

Rated Current: 0.5A AC/DC **Rated Voltage:** 50VDC AC/DC **Withstand Voltage:** 250VAC for 1 minute **Insertion Tolerance:** 30 times **Features:** • Enlarged surface area on slide bar makes automatic assembly easier • Vertical slide mechanism locks flex circuit securely in place • Low-profile, measures only 4.15 mm above the circuit board • Hold-down terminal improves connection stability during soldering • Connectors supplied on tape reels for automatic insertion

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing		Omron Part No.
			1	25	50	100		1,000	5,000	
8	8.5	OR660CT-ND	.68	.61	.54	.49	—	—	—	XF2J-0824-11
14	11.5	OR663CT-ND	.88	.79	.70	.63	OR663TR-ND	437.50	420.00/M	XF2J-1424-11
16	12.5	OR664CT-ND	.93	.84	.74	.67	OR664TR-ND	462.50	444.00/M	XF2J-1624-11
18	13.5	OR665CT-ND	.98	.88	.78	.71	—	—	—	XF2J-1824-11
22	15.5	OR667CT-ND	1.05	.95	.84	.76	OR667TR-ND	525.00	504.00/M	XF2J-2224-11
26	17.5	OR669CT-ND	1.20	1.08	.96	.87	OR669TR-ND	600.00	576.00/M	XF2J-2624-11
28	18.5	OR670CT-ND	1.25	1.13	1.00	.90	OR670TR-ND	625.00	600.00/M	XF2J-2824-11
NEW! XF2J — RoHS Compliant NEW!										
6	7.5	OR733CT-ND	.64	.57	.51	.46	OR733TR-ND	316.25	303.60/M	XF2J-0624-11A
8	8.5	OR734CT-ND	.75	.67	.60	.54	OR734TR-ND	371.25	356.40/M	XF2J-0824-11A
10	9.5	OR735CT-ND	.80	.72	.64	.58	OR735TR-ND	398.75	382.80/M	XF2J-1024-11A
12	10.5	OR736CT-ND	.89	.80	.71	.64	OR736TR-ND	440.00	422.40/M	XF2J-1224-11A
14	11.5	OR737CT-ND	.97	.87	.77	.70	OR737TR-ND	481.25	462.00/M	XF2J-1424-11A
16	12.5	OR738CT-ND	1.03	.92	.82	.74	OR738TR-ND	508.75	488.40/M	XF2J-1624-11A
18	13.5	OR739CT-ND	1.08	.97	.86	.78	OR739TR-ND	536.25	514.80/M	XF2J-1824-11A
20	14.5	OR740CT-ND	1.14	1.02	.91	.82	OR740TR-ND	563.75	541.20/M	XF2J-2024-11A
22	15.5	OR741CT-ND	1.16	1.04	.93	.84	OR741TR-ND	577.50	554.40/M	XF2J-2224-11A
24	16.5	OR742CT-ND	1.25	1.12	.99	.90	OR742TR-ND	618.75	594.00/M	XF2J-2424-11A
26	17.5	OR743CT-ND	1.33	1.19	1.06	.96	OR743TR-ND	660.00	633.60/M	XF2J-2624-11A
28	18.5	OR744CT-ND	1.39	1.24	1.10	.99	OR744TR-ND	687.50	660.00/M	XF2J-2824-11A
30	19.5	OR745CT-ND	1.44	1.29	1.15	1.03	OR745TR-ND	715.00	686.40/M	XF2J-3024-11A

0.5mm-Pitch Vertical FPC Connector - XF2G

SMT Non-ZIF (Zero Insertion Force) Connector Offers a Low-Cost Top Entry Alternative to Locking Type

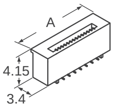

SPECIFICATIONS:

Rated Current: 0.5A **Rated Voltage:** 50VDC **Withstanding Voltage:** 250VAC for 1 minute **Insertion Tolerance:** 10 times **Features:** • Enlarged top surface area makes automatic assembly easier • Low profile • Measures only 4.15mm above the circuit board • Hold-down terminal improves connection stability during soldering • Connectors supplied on tape reels for automatic insertion

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing		Omron Part No.
			1	25	50	100		1,000	5,000	
6	4.9	OR672CT-ND	.40	.36	.32	.29	—	—	—	XF2G-0614-11
14	8.9	OR673CT-ND	.60	.54	.48	.44	OR673TR-ND	300.00	288.00/M	XF2G-1414-11
16	9.9	OR674CT-ND	.70	.63	.56	.51	—	—	—	XF2G-1614-11

0.5mm-Pitch Reduced-Area Rotary Backlock FPC Connector - XF2M

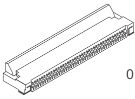

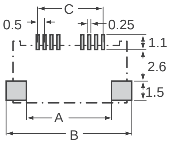

SPECIFICATIONS:

Rated Current: 0.5A AC/DC **Rated Voltage:** 50V AC/DC **Operating Temperature:** -30°C ~ 85°C **Materials/Finish: Housing:** LCP resin (UL94V-0)/natural **Slider:** LCP resin (UL94V-0)/black **Contact:** Spring copper alloy/nickel substrate (2μm) **Hold-down:** Spring copper alloy/fused-tin plating (1.5μm)

No. of Pos.	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel		Omron Part No.
					1	25	50	Size	Pricing*	
10	6.1	9.5	4.5	OR698CT-ND	.70	.64	.57	—	—	XF2M10151L
30	16.1	19.5	14.5	OR700CT-ND	1.23	1.12	.99	—	—	XF2M30151L
34	18.1	21.5	16.5	OR701CT-ND	1.41	1.27	1.13	1,500	703.63/M	XF2M34151L
45	23.6	27.0	22.0	OR703CT-ND	1.73	1.56	1.39	1,500	865.38/M	XF2M45151L
50	26.1	29.5	24.5	OR704CT-ND	1.88	1.69	1.51	—	—	XF2M50151L
NEW! XF2M — RoHS Compliant NEW!										
10	6.1	9.5	4.5	OR717CT-ND	1.02	.92	.81	1,500	506.26/M	XF2M-1015-1A
18	10.1	13.5	8.5	OR718CT-ND	1.29	1.15	1.03	1,500	638.76/M	XF2M-1815-1A
20	11.1	14.5	9.5	OR719CT-ND	.93	.83	.74	1,500	460.00/M	XF2M-2015-1A
22	12.1	15.5	10.5	OR720CT-ND	.98	.88	.78	1,500	487.50/M	XF2M-2215-1A
24	13.1	16.5	11.5	OR721CT-ND	1.50	1.34	1.19	1,500	743.76/M	XF2M-2415-1A
26	14.1	17.5	12.5	OR722CT-ND	1.10	.99	.88	1,500	546.26/M	XF2M-2615-1A
30	16.1	19.5	14.5	OR723CT-ND	1.22	1.09	.97	1,500	603.76/M	XF2M-3015-1A
32	17.1	20.5	15.5	OR724CT-ND	1.28	1.14	1.02	1,500	632.50/M	XF2M-3215-1A
33	17.6	21.0	16.0	OR725CT-ND	1.79	1.60	1.43	1,500	888.76/M	XF2M-3315-1A
34	18.1	21.5	16.5	OR726CT-ND	1.33	1.19	1.06	1,500	660.00/M	XF2M-3415-1A
35	18.6	22.0	17.0	OR727CT-ND	1.36	1.22	1.08	1,500	675.00/M	XF2M-3515-1A
36	19.1	22.5	17.5	OR728CT-ND	1.39	1.24	1.11	1,500	688.76/M	XF2M-3615-1A
40	21.1	24.5	19.5	OR729CT-ND	1.50	1.35	1.20	1,500	746.26/M	XF2M-4015-1A
42	22.1	25.5	20.5	OR730CT-ND	1.56	1.40	1.24	1,500	775.00/M	XF2M-4215-1A
45	23.6	27.0	22.0	OR731CT-ND	1.65	1.48	1.31	1,500	818.76/M	XF2M-4515-1A
50	26.1	29.5	24.5	OR732CT-ND	1.84	1.65	1.46	1,500	912.50/M	XF2M-5015-1A

* For Tape and Reel part number, change CT-ND to TR-ND.

0.5mm -Pitch Low-profile Rotary Backlock FPC Connector - XF2N, XF2R

SPECIFICATIONS: Rated Current: 0.3A AC/DC **Rated Voltage:** 50V AC/DC **Operating Temperature:** -30°C ~ 85°C **Materials/Finish: Housing:** LCP resin (UL94V-0)/natural **Slider:** LCP resin (UL94V-0)/black **Contact:** Spring copper alloy/nickel substrate (1.5μm) gold-plated contacts (0.15μm) **Hold-down:** Spring copper alloy/fused-tin plating (1.5μm)

Fig. 1

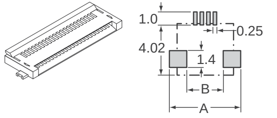

Fig. 2

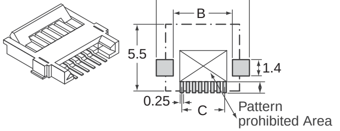

Fig.	No. of Pos.	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel		Omron Part No.
						1	25	50	Size	Pricing*	
1	21	13.8	11.8	—	OR705CT-ND	1.79	1.61	1.44	3,000	894.13/M	XF2N21153
2	6	6.1	4.1	2.5	OR706CT-ND	1.41	1.27	1.13	3,000	704.00/M	XF2R06154A
	9	7.6	5.6	4.0	OR707CT-ND	1.57	1.42	1.26	3,000	786.50/M	XF2R09154A
	18	12.1	10.1	8.5	OR708CT-ND	2.06	1.86	1.65	3,000	1030.25/M	XF2R18154A
	24	15.1	13.1	11.5	OR709CT-ND	2.38	2.15	1.91	3,000	1192.38/M	XF2R24154A
	34	20.1	18.1	16.5	OR710CT-ND	2.93	2.64	2.34	3,000	1462.50/M	XF2R34154A
	40	23.1	21.1	19.5	OR711CT-ND	3.25	2.93	2.61	3,000	1626.63/M	XF2R40154A

* For Tape and Reel part number, change CT-ND to TR-ND.

OMRON 0.3mm-Pitch Rotary Backlock FPC Connector - XF2B

No. of Pos.	Dim. A (mm)	Dim. B (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel		Omron Part No.
				1	25	50	Size	Pricing*	
17	4.2	4.8	OR694CT-ND	1.63	1.47	1.31	1,500	814.50/M	XF2B174531A
23	6.0	6.6	OR695CT-ND	1.95	1.76	1.57	1,500	976.63/M	XF2B234531A
31	8.4	9.0	OR696CT-ND	2.41	2.17	1.93	1,500	1202.50/M	XF2B314531A
33	9.0	9.6	OR697CT-ND	2.52	2.27	2.02	1,500	1260.26/M	XF2B334531A

SPECIFICATIONS: Rated Current: 0.2A AC/DC **Rated Voltage:** 50V AC/DC **Insertion Tolerance:** 10 times **Operating Temperature:** -30°C ~ 85°C **Materials/Finish: Housing:** LCP resin (UL94V-0)/natural **Slider:** LCP resin (UL94V-0)/black **Contact:** Spring copper alloy/nickel substrate (2µm) gold-plated contacts (0.15µm)

* For Tape and Reel part number, change CT-ND to TR-ND.

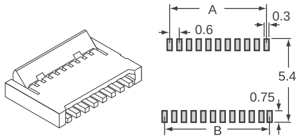

0.5mm Pitch Standard Length Jumper - Unshielded

Flat Flex Cable

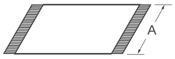

SPECIFICATIONS:

Electrical: • Voltage: 30V • Current: 0.5A **Physical**: • Strip Length: 4.0mm (1.57") • Reinforcement Length: 6.00mm (.236") • Conductor Width: 0.30mm (.012") • Conductor Thickness: 0.10 mm (.004") • End Thickness: 0.30±0.05mm (.012 ±.002") • Temperature: -40°C ~ 80°C

Reference Information: • UL Style No. 2896 • Mates with any 0.50mm (.020") Pitch Molex FFC/FPC Connector

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each				Molex Part No.
			1	10	100	250	
2.00" (51mm)							
6	3.5	WM10200-ND	4.14	3.46	2.54	2.15	21020-0053
10	5.5	WM10201-ND	4.14	3.45	2.54	2.15	21020-0097
20	10.5	WM10202-ND	4.30	3.58	2.63	2.22	21020-0207
24	12.5	WM10203-ND	4.35	3.63	2.66	2.25	21020-0251
30	15.5	WM10204-ND	4.41	3.67	2.70	2.28	21020-0317
36	18.5	WM10205-ND	4.45	3.71	2.73	2.30	21020-0383
40	20.5	WM10206-ND	4.50	3.76	2.76	2.33	21020-0427
50	25.5	WM10207-ND	4.65	3.88	2.84	2.42	21020-0543
NEW! 3.00" (76mm) — RoHS Compliant NEW!							
6	3.5	WM10224-ND	4.66	3.88	2.85	2.42	21020-0055
10	5.5	WM10225-ND	4.66	3.89	2.86	2.42	21020-0099
20	10.5	WM10226-ND	4.66	3.89	2.85	2.41	21020-0209
24	12.5	WM10227-ND	4.66	3.88	2.85	2.42	21020-0253
30	15.5	WM10228-ND	4.66	3.88	2.85	2.42	21020-0319
36	18.5	WM10229-ND	4.66	3.89	2.85	2.42	21020-0385
40	20.5	WM10230-ND	4.66	3.88	2.85	2.42	21020-0429
50	25.5	WM10231-ND	4.66	3.88	2.85	2.42	21020-7650
4.00" (102mm)							
6	3.5	WM10208-ND	4.66	3.89	2.85	2.42	21020-0057
10	5.5	WM10209-ND	4.65	3.89	2.86	2.42	21020-0101
20	10.5	WM10210-ND	4.92	4.10	3.01	2.55	21020-0211
24	12.5	WM10211-ND	5.02	4.19	3.07	2.61	21020-0255
30	15.5	WM10212-ND	5.17	4.31	3.17	2.69	21020-0321
36	18.8	WM10213-ND	5.34	4.45	3.27	2.76	21020-0387
40	20.5	WM10214-ND	5.43	4.53	3.33	2.82	21020-0431
50	25.5	WM10215-ND	5.69	4.74	3.48	2.95	21020-0547
NEW! 5.00" (127mm) — RoHS Compliant NEW!							
6	3.5	WM10232-ND	5.69	4.75	3.48	2.95	21020-0059
10	5.5	WM10233-ND	5.69	4.75	3.48	2.95	21020-0103
20	10.5	WM10234-ND	5.69	4.75	3.48	2.95	21020-0213
24	12.5	WM10235-ND	5.69	4.75	3.48	2.95	21020-0257
30	15.5	WM10236-ND	5.69	4.75	3.48	2.96	21020-0323
36	18.8	WM10237-ND	5.69	4.75	3.48	2.95	21020-0389
40	20.5	WM10238-ND	5.69	4.74	3.47	2.94	21020-0433
50	25.5	WM10239-ND	5.70	4.76	3.47	2.96	21020-2750
6.00" (152mm)							
6	3.5	WM10216-ND	5.70	4.75	3.48	2.95	21020-0061
10	5.5	WM10217-ND	5.69	4.75	3.49	2.95	21020-0105
20	10.5	WM10218-ND	5.69	4.75	3.49	2.95	21020-0215
24	12.5	WM10219-ND	5.96	4.97	3.65	3.08	21020-0259
30	15.5	WM10220-ND	6.21	5.18	3.80	3.21	21020-0325
36	18.5	WM10221-ND	6.37	5.30	3.90	3.31	21020-0391
40	20.5	WM10222-ND	6.46	5.40	3.96	3.36	21020-0435
50	25.5	WM10223-ND	6.72	5.61	4.10	3.49	21020-0548
NEW! 8.00" (203mm) — RoHS Compliant NEW!							
6	3.5	WM10240-ND	5.69	4.75	3.49	2.96	21020-0065
10	5.5	WM10241-ND	5.69	4.75	3.48	2.96	21020-0109
20	10.5	WM10242-ND	5.69	4.74	3.48	2.95	21020-0219
24	12.5	WM10243-ND	5.94	4.97	3.64	3.08	21020-0263
30	15.5	WM10244-ND	6.22	5.18	3.81	3.22	21020-0329
36	18.5	WM10245-ND	6.36	5.30	3.90	3.30	21020-0395
40	20.5	WM10246-ND	6.46	5.39	3.95	3.36	21020-0439
50	25.5	WM10247-ND	6.72	5.60	4.11	3.50	21020-0574

0.5mm FFC/FPC Connector

SPECIFICATIONS: Electrical: • Voltage: 50V • Current: 0.5A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250V AC/1 minute • Insulation Resistance: 50MΩ minute **Physical:** • Housing: 4/6 nylon, UL 94V-0 • Actuator: PPS, UL 94V-0 • Contact: Phosphor Bronze • Plating: Tin • Solder Tabs: Phosphor Bronze, Tin Plating • Operating Temperature: -20°C ~ 85°C

Bottom

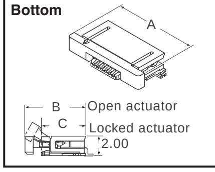

Top

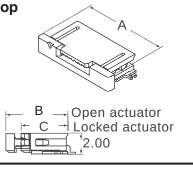

Vertical

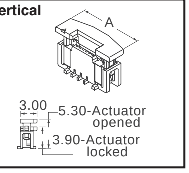

No. of Pos.	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel		Molex Part No.
					1	10	100	Size	Pricing*	
Bottom Contact Style										
6	9.10	5.9	4.3	WM7700CT-ND	1.54	1.33	1.03	1,000	600.83	52746-0670
10	11.10	5.9	4.3	WM7701CT-ND	2.17	1.86	1.45	1,000	843.66	52746-1070
20	16.10	5.9	4.3	WM7702CT-ND	3.36	2.88	2.24	1,000	1305.19	52746-2070
20	16.10	5.9	4.3	WM5680CT-ND	3.20	2.74	2.14	1,000	1242.66	52746-2090
24	18.60	6.1	4.5	WM7703CT-ND	4.01	3.44	2.68	1,000	1559.32	52437-2472
30	21.60	6.1	4.5	WM7704CT-ND	4.36	3.74	2.91	1,000	1695.84	52437-3072
36	23.50	6.55	5.0	WM7705CT-ND	3.22	2.76	2.15	1,500	1251.00/M	54132-3697
40	25.50	6.55	5.0	WM5684CT-ND	5.65	4.84	3.77	1,500	2198.00/M	54132-4092
40	25.50	6.55	5.0	WM7706CT-ND	4.04	3.46	2.70	1,500	1572.00/M	54132-4097
50	30.50	6.55	5.0	WM7707CT-ND	4.81	4.12	3.21	1,500	1870.00/M	54132-5097

* For Tape and Reel Part Number, change CT-ND to TR-ND.

No. of Pos.	Dim. A (mm)	Dim. B (mm)	Dim. C (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel		Molex Part No.
					1	10	100	Size	Pricing*	
Top Contact Style										
6	9.10	5.7	4.3	WM7708CT-ND	.98	.84	.66	1,000	381.01	52745-0696
10	11.10	5.7	4.3	WM7709CT-ND	1.51	1.30	1.01	1,000	588.23	52745-1096
20	16.10	5.7	4.3	WM7710CT-ND	2.08	1.79	1.39	1,000	810.64	52745-2096
24	18.60	5.9	4.5	WM7711CT-ND	3.03	2.60	2.03	1,000	1179.05	52435-2472
30	21.60	5.9	4.5	WM7712CT-ND	3.36	2.88	2.24	1,000	1304.80	52435-3072
40	25.50	6.55	5.0	WM7713CT-ND	3.94	3.38	2.63	1,500	1534.00/M	54104-4096
50	30.50	6.55	5.0	WM7714CT-ND	4.30	3.69	2.87	1,500	1674.00/M	54104-5096
Vertical Contact Style										
6	8.70	—	—	WM7715CT-ND	1.58	1.36	1.06	1,000	614.74	52559-0672
10	10.70	—	—	WM7716CT-ND	2.32	1.99	1.55	1,000	903.95	52559-1072
10	10.70	—	—	WM5694CT-ND	2.21	1.90	1.48	—	—	52559-1092
20	15.70	—	—	WM7717CT-ND	3.82	3.27	2.55	1,000	1484.93	52559-2072
24	17.70	—	—	WM7718CT-ND	4.43	3.80	2.96	1,000	1723.10	52259-2472
24	17.70	—	—	WM5696CT-ND	4.22	3.61	2.82	—	—	52559-2492
30	20.70	—	—	WM7719CT-ND	4.46	3.82	2.98	1,000	1732.94	52559-3072
36	23.70	—	—	WM7720CT-ND	5.22	4.47	3.49	1,000	2031.23	52559-3672
40	25.70	—	—	WM7721CT-ND	5.08	4.35	3.39	1,000	1977.24	52559-4072

* For Tape and Reel Part Number, change CT-ND to TR-ND.

1mm FFC/FPC Connectors

FEATURES: Right Angle: For 0.30mm thick FFC/FPC. Metal solder tabs provide PCB hold-down and strain relief for SMT tails. **Material:** 4/6 nylon, UL 94V-0 **Actuator:** PPS, UL 94V-0 **Contact:** Phosphor Bronze **Plating:** Tin Solder **Tabs:** Phosphor Bronze, Tin Plating **Temperature:** -20°C ~ 85°C **Electrical: Voltage:** 125V **Current:** 1.0A **Contact Resistance:** 20mΩ maximum **Dielectric Withstanding Voltage:** 500V AC/1 minute

Vertical: For use with 0.30mm thick FFC/FPC. Tuning fork contacts assure stable, low contact resistance. Optional cable retention barbs provide cable strain relief and assure full retention of cable. Optional polarizing peg assures proper orientation to PCB and kinked outer solder tails offer PCB retention. SMT compatible. **Material:** Housing 4/6 nylon, UL 94V-0 **Actuator:** LCP, UL 94V-0 **Contact:** Phosphor Bronze Alloy **Plating:** Tin/Lead, 90/10 **Temperature:** -20°C ~ 80°C **Electrical: Voltage:** 125V **Current:** 1.0A **Contact Resistance:** 20mΩ maximum **Dielectric Withstanding Voltage:** 500V AC/1 minute **Insulation Resistance:** 100MΩ minimum

Fig. 1

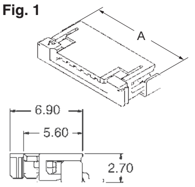

Fig. 2

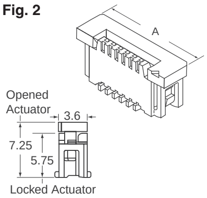

Fig. 3

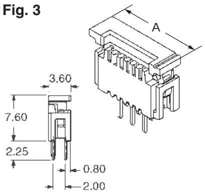

Fig.	No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T&R Pricing 1,000	Molex Part No.
				1	10	100			
Right Angle, SMT, ZIF — Top Contact Style									
1	4	.405 (10.30)	WM7675CT-ND	1.21	1.04	.81	WM7675TR-ND	470.61	52207-0485
	6	.484 (12.30)	WM7676CT-ND	1.02	.88	.69	WM7676TR-ND	397.71	52207-0685
	8	.562 (14.30)	WM7677CT-ND	1.34	1.15	.90	WM7677TR-ND	520.33	52207-0885
	10	.641 (16.30)	WM7678CT-ND*	1.81	1.55	1.21	WM7678TR-ND*	702.00	52207-1085
	12	.720 (18.30)	WM7679CT-ND	1.92	1.65	1.29	WM7679TR-ND	747.76	52207-1285
	14	.799 (20.30)	WM7680CT-ND	2.19	1.87	1.46	WM7680TR-ND	849.78	52207-1485
	16	.877 (22.30)	WM7681CT-ND*	2.53	2.17	1.69	WM7681TR-ND*	984.00	52207-1685
	18	.956 (24.30)	WM7682CT-ND	2.66	2.28	1.78	WM7682TR-ND	1035.28	52207-1885
	20	1.035 (26.30)	WM7683CT-ND	2.88	2.47	1.92	WM7683TR-ND	1118.93	52207-2085
	22	1.114 (28.30)	WM7684CT-ND	3.08	2.64	2.06	WM7684TR-ND	1197.40	52207-2285
	22	1.114 (28.30)	WM5709CT-ND	2.73	2.34	1.83	—	—	52207-2290
	24	1.192 (30.30)	WM7685CT-ND	3.25	2.79	2.17	WM7685TR-ND	1265.48	55207-2485
	26	1.271 (32.30)	WM7686CT-ND	3.42	2.93	2.29	WM7686TR-ND	1330.96	52207-2685
	26	1.271 (32.30)	WM5711CT-ND	3.26	2.79	2.18	—	—	52207-2690
	28	1.350 (34.30)	WM7687CT-ND*	3.96	3.39	2.64	WM7687TR-ND*	1540.00	52207-2885
	30	1.430 (36.30)	WM7688CT-ND	3.77	3.23	2.52	WM7688TR-ND	1466.75	52207-3085
Vertical, SMT, ZIF — RoHS Compliant									
2	6	.496 (12.60)	WM7633CT-ND*	2.04	1.75	1.37	WM7633TR-ND*	795.00	52610-0671
	8	.575 (14.60)	WM7634CT-ND*	2.44	2.10	1.63	WM7634TR-ND*	950.00	52610-0871
	10	.654 (16.60)	WM7635CT-ND*	2.81	2.41	1.88	WM7635TR-ND*	1094.00	52610-1071
	12	.732 (18.60)	WM7636CT-ND*	3.22	2.76	2.15	WM7636TR-ND*	1252.00	52610-1271
	14	.811 (20.60)	WM7637CT-ND*	3.58	3.07	2.39	WM7637TR-ND*	1392.00	52610-1471
	16	.890 (22.60)	WM7638CT-ND*	3.89	3.33	2.60	WM7638TR-ND*	1511.00	52610-1671
	18	.969 (24.60)	WM7639CT-ND*	4.15	3.56	2.77	WM7639TR-ND*	1615.00	52610-1871
	20	1.047 (26.60)	WM7640CT-ND*	4.39	3.76	2.93	WM7640TR-ND*	1706.00	52610-2071
	22	1.126 (28.60)	WM7641CT-ND*	4.72	4.04	3.15	WM7641TR-ND*	1835.00	52610-2271
	24	1.205 (30.60)	WM7642CT-ND*	5.03	4.31	3.36	WM7642TR-ND*	1956.00	52610-2471
	26	1.283 (32.60)	WM7643CT-ND*	3.85	3.30	2.57	WM7643TR-ND*	1499.00	52610-2671
	28	1.362 (34.60)	WM7644CT-ND*	5.48	4.70	3.66	WM7644TR-ND*	2132.00	52610-2871
	30	1.441 (36.60)	WM7645CT-ND*	5.61	4.80	3.74	WM7645TR-ND*	2181.00	52610-3071
Vertical, ZIF — No Pegs									
3	4	.366 (9.30)	WM5300-ND	1.16	.95	.73	—	—	71226-0425
	6	.445 (11.30)	WM5301-ND	1.38	1.13	.87	—	—	71226-0625
	8	.524 (13.30)	WM5302-ND	1.61	1.31	1.01	—	—	71226-0825
	10	.602 (15.30)	WM5303-ND	1.84	1.50	1.16	—	—	71226-1025
	12	.681 (17.30)	WM5304-ND	2.08	1.70	1.31	—	—	71226-1225
	14	.760 (19.30)	WM5305-ND	2.31	1.88	1.45	—	—	71226-1425
	16	.839 (21.30)	WM5306-ND	2.53	2.06	1.59	—	—	71226-1625
	18	.917 (23.30)	WM5307-ND	2.77	2.25	1.73	—	—	71226-1825
	20	.996 (25.30)	WM5308-ND	3.15	2.56	1.97	—	—	71226-2025
	22	1.075 (27.30)	WM5309-ND	3.22	2.62	2.02	—	—	71226-2225
	24	1.154 (29.30)	WM5310-ND	3.45	2.81	2.16	—	—	71226-2425
	26	1.232 (31.30)	WM5311-ND	3.68	3.00	2.31	—	—	71226-2625
	28	1.311 (33.30)	WM5312-ND	3.92	3.19	2.45	—	—	71226-2825
	30	1.390 (35.30)	WM5313-ND	4.15	3.38	2.60	—	—	71226-3025

* **RoHS Compliant**

1.00mm (.039”) Pitch Standard Length Jumpers

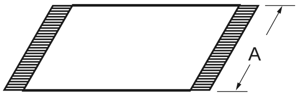

Features and Specifications:
Molex introduces a complete line of 1.00 (.039”) pitch Flat Flex Cable jumpers. These jumpers are used to connect 2 PC boards and terminate to either ZIF or Non-ZIF FFC Connectors **Reference Information:** UL Style No.: 2896. Mates with: Any 1.00mm (.039”) Pitch Molex FFC/FPC Connector. Designed in: Millimeters **Electrical:** Voltage: 30V, Current: 1.3A **Physical:** Strip Length: 4.0mm (.157”). Reinforcement Length: 8.00mm (.315”). Conductor Width: 0.70mm (.028”). Conductor Thickness: 0.10mm (.004”). End Thickness: 0.30±0.05mm (.012±.002”). Temperature: -40°C ~ 80° C • Contacts on same side

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
2” (5.08cm) Unshielded Flat Flex Cable							
6	7.15	WM10000-ND	2.89	2.41	1.77	1.50	21039-0203
8	9.15	WM10001-ND	2.97	2.48	1.82	1.54	21039-0225
10	11.15	WM10002-ND	3.19	2.67	1.96	1.66	21039-0247
12	13.15	WM10003-ND	3.38	2.82	2.07	1.76	21039-0269
14	15.15	WM10004-ND	3.64	3.04	2.23	1.89	21039-0291
16	17.15	WM10005-ND	3.56	2.97	2.18	1.85	21039-0313
18	19.15	WM10006-ND	3.87	3.23	2.37	2.01	21039-0335
20	21.15	WM10007-ND	4.03	3.36	2.47	2.09	21039-0357
22	23.15	WM10008-ND	4.07	3.40	2.49	2.11	21039-0379
24	25.15	WM10009-ND	4.30	3.59	2.63	2.23	21039-0401
26	27.15	WM10010-ND	4.12	3.44	2.53	2.14	21039-0423
28	29.15	WM10011-ND	4.36	3.64	2.67	2.26	21039-0445
30	31.15	WM10012-ND	4.40	3.67	2.69	2.28	21039-0467
3” (7.62cm) Unshielded Flat Flex Cable							
6	7.15	WM10013-ND	2.82	2.36	1.73	1.47	21039-0205
8	9.15	WM10014-ND	3.15	2.63	1.93	1.63	21039-0227
10	11.15	WM10015-ND	3.43	2.87	2.10	1.78	21039-0249
12	13.15	WM10016-ND	3.76	3.14	2.30	1.95	21039-0271
14	15.15	WM10017-ND	3.70	3.09	2.26	1.92	21039-0293
16	17.15	WM10018-ND	3.82	3.19	2.34	1.99	21039-0315
18	19.15	WM10019-ND	3.99	3.33	2.45	2.07	21039-0337
20	21.15	WM10020-ND	4.21	3.51	2.58	2.18	21039-0359
22	23.15	WM10021-ND	4.26	3.55	2.61	2.21	21039-0381
24	25.15	WM10022-ND	4.55	3.80	2.79	2.36	21039-0403
26	27.15	WM10023-ND	4.61	3.84	2.82	2.39	21039-0425
28	29.15	WM10024-ND	4.65	3.88	2.84	2.41	21039-0447
30	31.15	WM10025-ND	4.69	3.91	2.87	2.43	21039-0469
4” (10.16cm) Unshielded Flat Flex Cable							
6	7.15	WM10026-ND	3.05	2.55	1.87	1.58	21039-0207
8	9.15	WM10027-ND	3.20	2.67	1.96	1.66	21039-0229
10	11.15	WM10028-ND	3.35	2.80	2.05	1.74	21039-0251
12	13.15	WM10029-ND	3.52	2.94	2.16	1.83	21039-0273
14	15.15	WM10030-ND	3.67	3.06	2.25	1.90	21039-0295
16	17.15	WM10031-ND	3.82	3.19	2.34	1.99	21039-0317
18	19.15	WM10032-ND	4.02	3.36	2.46	2.09	21039-0339
20	21.15	WM10033-ND	4.28	3.57	2.62	2.22	21039-0361
22	23.15	WM10034-ND	4.33	3.61	2.65	2.25	21039-0383
24	25.15	WM10035-ND	4.69	3.91	2.87	2.43	21039-0405
26	27.15	WM10036-ND	4.74	3.95	2.90	2.46	21039-0427
28	29.15	WM10037-ND	4.80	4.00	2.94	2.49	21039-0449
30	31.15	WM10038-ND	4.61	3.85	2.82	2.39	21039-0471
5” (12.70cm) Unshielded Flat Flex Cable							
6	7.15	WM10039-ND	3.04	2.54	1.86	1.58	21039-0209
8	9.15	WM10040-ND	3.20	2.67	1.96	1.66	21039-0231
10	11.15	WM10041-ND	3.21	2.68	1.96	1.67	21039-0253
12	13.15	WM10042-ND	3.57	2.98	2.19	1.85	21039-0275
14	15.15	WM10043-ND	3.74	3.12	2.29	1.94	21039-0297
16	17.15	WM10044-ND	3.92	3.27	2.40	2.04	21039-0319
18	19.15	WM10045-ND	4.15	3.46	2.54	2.15	21039-0341
20	21.15	WM10046-ND	4.45	3.71	2.72	2.31	21039-0363
22	23.15	WM10047-ND	4.51	3.77	2.76	2.34	21039-0385
24	25.15	WM10048-ND	4.94	4.12	3.02	2.56	21039-0407
26	27.15	WM10049-ND	4.99	4.17	3.06	2.59	21039-0429
28	29.15	WM10050-ND	4.81	4.02	2.95	2.50	21039-0451
30	31.15	WM10051-ND	5.11	4.26	3.13	2.65	21039-0473

No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Molex Part No.
6” (15.24cm) Unshielded Flat Flex Cable							
6	7.15	WM10052-ND	3.11	2.60	1.91	1.62	21039-0211
8	9.15	WM10053-ND	3.09	2.58	1.89	1.60	21039-0233
10	11.15	WM10054-ND	3.51	2.93	2.15	1.82	21039-0255
12	13.15	WM10055-ND	3.74	3.12	2.29	1.94	21039-0277
14	15.15	WM10056-ND	3.93	3.28	2.41	2.04	21039-0299
16	17.15	WM10057-ND	4.14	3.46	2.54	2.15	21039-0321
18	19.15	WM10058-ND	4.41	3.68	2.70	2.29	21039-0343
20	21.15	WM10059-ND	4.53	3.78	2.77	2.35	21039-0365
22	23.15	WM10060-ND	4.60	3.84	2.81	2.39	21039-0387
24	25.15	WM10061-ND	5.32	4.44	3.26	2.76	21039-0409
26	27.15	WM10062-ND	5.39	4.50	3.30	2.80	21039-0431
28	29.15	WM10063-ND	5.46	4.56	3.34	2.83	21039-0453
30	31.15	WM10064-ND	5.53	4.62	3.39	2.87	21039-0475
8” (20.32cm) Unshielded Flat Flex Cable							
6	7.15	WM10065-ND	3.30	2.75	2.02	1.71	21039-0215
8	9.15	WM10066-ND	3.55	2.96	2.17	1.84	21039-0237
10	11.15	WM10067-ND	3.78	3.16	2.32	1.96	21039-0259
12	13.15	WM10068-ND	4.09	3.42	2.51	2.12	21039-0281
14	15.15	WM10069-ND	4.33	3.61	2.65	2.25	21039-0303
16	17.15	WM10070-ND	4.61	3.84	2.82	2.39	21039-0325
18	19.15	WM10071-ND	4.71	3.93	2.88	2.44	21039-0347
20	21.15	WM10072-ND	5.39	4.50	3.30	2.80	21039-0369
22	23.15	WM10073-ND	5.48	4.57	3.36	2.84	21039-0391
24	25.15	WM10074-ND	6.12	5.10	3.74	3.17	21039-0413
26	27.15	WM10075-ND	6.19	5.17	3.79	3.21	21039-0435
28	29.15	WM10076-ND	6.28	5.24	3.84	3.26	21039-0457
30	31.15	WM10077-ND	6.37	5.31	3.90	3.30	21039-0479
10” (25.40cm) Unshielded Flat Flex Cable							
6	7.15	WM10078-ND	3.34	2.79	2.05	1.74	21039-0219
8	9.15	WM10079-ND	3.63	3.03	2.22	1.88	21039-0241
10	11.15	WM10080-ND	3.90	3.26	2.39	2.03	21039-0263
12	13.15	WM10081-ND	4.47	3.73	2.74	2.32	21039-0285
14	15.15	WM10082-ND	4.53	3.78	2.77	2.35	21039-0307
16	17.15	WM10083-ND	5.09	4.25	3.12	2.64	21039-0329
18	19.15	WM10084-ND	5.51	4.59	3.37	2.86	21039-0351
20	21.15	WM10085-ND	6.05	5.05	3.70	3.14	21039-0373
22	23.15	WM10086-ND	6.16	5.14	3.77	3.19	21039-0395
24	25.15	WM10087-ND	6.93	5.78	4.24	3.59	21039-0417
26	27.15	WM10088-ND	7.04	5.87	4.31	3.65	21039-0439
28	29.15	WM10089-ND	7.14	5.95	4.37	3.70	21039-0461
30	31.15	WM10090-ND	7.24	6.04	4.43	3.76	21039-0483
12” (30.48cm) Unshielded Flat Flex Cable							
6	7.15	WM10091-ND	3.73	3.11	2.29	1.94	21039-0221
8	9.15	WM10092-ND	4.07	3.40	2.49	2.11	21039-0243
10	11.15	WM10093-ND	4.41	3.68	2.70	2.29	21039-0265
12	13.15	WM10094-ND	4.61	3.85	2.82	2.39	21039-0287
14	15.15	WM10095-ND	5.19	4.33	3.18	2.69	21039-0309
16	17.15	WM10096-ND	5.59	4.66	3.42	2.90	21039-0331
18	19.15	WM10097-ND	6.08	5.07	3.72	3.15	21039-0353
20	21.15	WM10098-ND	6.72	5.60	4.11	3.48	21039-0375
22	23.15	WM10099-ND	6.85	5.71	4.19	3.55	21039-0397
24	25.15	WM10100-ND	7.76	6.47	4.75	4.02	21039-0419
26	27.15	WM10101-ND	7.88	6.57	4.82	4.09	21039-0441
28	29.15	WM10102-ND	8.00	6.67	4.89	4.15	21039-0463
30	31.15	WM10103-ND	8.12	6.77	4.97	4.21	21039-0485

Panel Mate 1.25mm Connectors Ultra Low Profile

Fig. 1

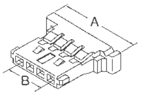

Fig. 2

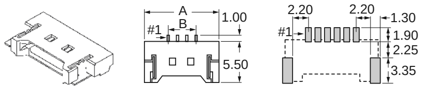

Physical Specifications: • Housing: PBTP, UL 94V-0 • Temperature: -40°C ~ 85°C • Contact: Phosphor Bronze • Plating: Gold (Tin/Lead on SMT tails) • Solder Tabs: Phosphor Bronze, Tin/Lead plating

Electrical Specifications: • Voltage: 125V • Current: 1.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VAC • Insulation Resistance: 100MΩ min.

Fig.	Cir-cuits	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Receptacle Housing - Ultra Low Profile								
1	2	5.72	1.25	WM5400-ND	.49	.44	.29	51146-0200
	3	6.97	2.50	WM5401-ND	.61	.54	.36	51146-0300
	4	8.22	3.75	WM5402-ND	.72	.64	.43	51146-0400
	5	9.47	5.00	WM5403-ND	.79	.70	.47	51146-0500
	6	10.72	6.25	WM5404-ND	.92	.81	.54	51146-0600
	7	11.97	7.50	WM5405-ND	1.06	.94	.63	51146-0700
	9	14.47	10.00	WM5406-ND	1.27	1.12	.75	51146-0900
	14	20.72	16.25	WM5407-ND	1.86	1.65	1.10	51146-1400

Fig.	Cir-cuits	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Right Angle, SMT — RoHS Compliant								
2	2	7.65	1.25	WM7600CT-ND WM7600TR-ND	1.81	1.60 1057.50/1500	1.07	53780-0270
	3	8.90	2.50	WM7601CT-ND WM7601TR-ND	1.96	1.73 1147.50/1500	1.16	53780-0370
	4	10.15	3.75	WM7660CT-ND WM7660TR-ND	2.12	1.87 1240.00/1500	1.25	53780-0470
	5	11.40	5.00	WM7602CT-ND WM7602TR-ND	2.59	2.29 1516.50/1500	1.53	53780-0570
	6	12.65	6.25	WM7603CT-ND WM7603TR-ND	2.74	2.42 1603.50/1500	1.62	53780-0670
	7	13.90	7.50	WM7604CT-ND WM7604TR-ND	3.03	2.68 1773.00/1500	1.79	53780-0770
	9	16.40	10.00	WM7605CT-ND WM7605TR-ND	3.31	2.93 1939.50/1500	1.95	53780-0970
	14	22.65	16.25	WM7661CT-ND WM7661TR-ND	3.66	3.23 2143.47/1500	2.16	53780-1470
Crimp Terminal AWG 28-30				WM5506-ND	.49	.44	.29	50641-8141
Hand Crimper				WM9963-ND		636.00/1		57352-5000

NEW! 0.30 mm (0.012”) FFC-FPC Connectors

SFYL and SFYL-U Series

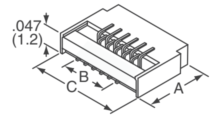

The SFYL and SFYL-U Series are a 0.30 mm (0.012 in) pitch cable to board connector with an ultra low profile. The series adopts the Surface Mount Technology (SMT) and Zero Insertion Force (ZIF) or Low Insertion Force (LIF) mechanism which enable easier cable insertion. These are suitable for high density design of consumer equipment, especially CD-ROM Drive, Digital Still Camera (DSC), Digital Video Camera (DVC) and Mobile Phone.

Features: • Ultra low profile design provides a body height of 1.2 mm (0.047 in.) • Easy handling cable insertion by actuator driven • High cable retention force • Design against solder and flux wicking

Materials:
- **Housing/Actuator:** Glass reinforced high temperature thermoplastic (UL94V-0)
- **Color:** Housing: White; Actuator: Black • **Contact:** Copper Alloy

Mechanical and Electrical Performance:
- **Durability (Actuator Operation):** 10 cycle maximum • **Temperature Range:** - 25°C ~ 85°C • **Insulation Resistance:** 50MΩ minumim • **Withstanding Voltage:** AC 200V • **Current Rating:** AC/DC 0.2A

No. of Positions	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 4,500	FCI Part No.
SYFL Series — Lower Contact Location										
17	0.118 (3.00)	0.165 (4.20)	0.291 (7.40)	609-1216-1-ND	1.16	.64	.54	609-1216-2-ND	405.58/M	10013057-171200ELF
21	0.118 (3.00)	0.213 (5.40)	0.339 (8.60)	609-1217-1-ND	1.30	.70	.60	609-1217-2-ND	465.22/M	10013057-211200ELF
25	0.118 (3.00)	0.260 (6.60)	0.386 (9.80)	609-1218-1-ND	1.36	.74	.63	609-1218-2-ND	489.44/M	10013057-251200ELF
31	0.118 (3.00)	0.331 (8.40)	0.457 (11.60)	609-1219-1-ND	1.49	.81	.71	609-1219-2-ND	562.24/M	10013057-311200ELF
35	0.118 (3.00)	0.378 (9.60)	0.504 (12.80)	609-1220-1-ND	1.53	.83	.73	609-1220-2-ND	579.04/M	10013057-351200ELF
39	0.118 (3.00)	0.425 (10.80)	0.551 (14.00)	609-1221-1-ND	1.71	.96	.84	609-1221-2-ND	654.09/M	10013057-391200ELF
45	0.118 (3.00)	0.496 (12.60)	0.622 (15.80)	609-1222-1-ND	1.83	1.05	.91	609-1222-2-ND	718.99/M	10013057-451200ELF
SYFL-U Series — Upper Contact Location										
11	0.146 (3.70)	0.094 (2.40)	0.220 (5.60)	609-1223-1-ND	1.03	.57	.48	609-1223-2-ND	433.72/M	10017251-112240ELF
15	0.146 (3.70)	0.142 (3.60)	0.268 (6.80)	609-1224-1-ND	1.13	.63	.53	609-1224-2-ND	395.50/M	10017251-152240ELF
19	0.146 (3.70)	0.189 (4.80)	0.315 (8.00)	609-1225-1-ND	1.20	.68	.56	609-1225-2-ND	514.92/M	10017251-192240ELF
23	0.146 (3.70)	0.236 (6.00)	0.362 (9.20)	609-1226-1-ND	1.29	.70	.60	609-1226-2-ND	554.68/M	10017251-232240ELF
25	0.146 (3.70)	0.260 (6.60)	0.386 (9.80)	609-1227-1-ND	1.34	.73	.62	609-1227-2-ND	529.34/M	10017251-252240ELF
27	0.146 (3.70)	0.283 (7.20)	0.409 (10.40)	609-1228-1-ND	1.36	.76	.65	609-1228-2-ND	604.80/M	10017251-272240ELF
31	0.146 (3.70)	0.331 (8.40)	0.457 (11.60)	609-1229-1-ND	1.45	.81	.70	609-1229-2-ND	539.84/M	10017251-312240ELF
39	0.146 (3.70)	0.425 (10.80)	0.551 (14.00)	609-1230-1-ND	1.58	.86	.75	609-1230-2-ND	691.04/M	10017251-392240ELF
45	0.146 (3.70)	0.496 (12.60)	0.622 (15.80)	609-1231-1-ND	1.69	.94	.83	609-1231-2-ND	749.93/M	10017251-452240ELF

NEW! 0.50 mm (0.020”) FFC-FPC Connectors

SMT/ZIF Type

The Gas-Tight, High Pressure (GTH) contact system ensures a low cost connection with reliablity equal to gold plating. The Zero Insertion Force (ZIF) connection allows an increased number of mating cycles with minimal wear. The ZIF pre-holding process provides a stable and reliable mating operation. The slider ensures maximum cable retention wtih a minimum size. Fork shaped contacts mean stable and low contact resistance. The cable lock option provides cable strain relief as well as full retention of cable.

Specifications: • Contact Resistance: 30 mΩ maximum • Insulation Resistance: 100 MΩ minimum • Durability (Mating Cycles): 20 Cycles • Temperature Range: -55°C ~ 85°C • Current Rating: 0.5 A AC/DC • Voltage Rating: 50 V AC/DC

62674 Series:
- Housing: Resin, Glass Reinforced, UL94V-0, Black • Slider: Resin, Glass Reinforced, UL94V-0, Brown • Contact: Phosphor Bronze. Tin Alloy Plated

62684 Series:
- Housing: Glass Filled Thermoplastic, UL94V-0, Beige • Slider: Glass Filled Thermoplastic, UL94V-0, Black • Contact: Phosphor Bronze, Tin Alloy Plated

SFV Series:
- Housing: Polyamide Resin, Glass Reinforced, UL94V-0, Black • Slider: PPS Resin, Glass Reinforced, UL94V-0, Brown (with cable-lock: Black) • Contact: Phosphor Bronze, Tin Alloy Plated

Fig. 1

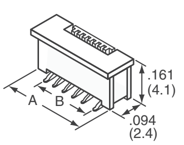

Fig. 2

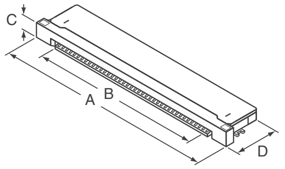

Fig.	No. of Posi-tions	Contact Location	Dimension - Inch (mm) A	B	C	D	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	FCI Part No.
62674 Series — Top Entry Without Cable Lock														
1	8	—	0.335 (8.50)	0.138 (3.50)	—	—	609-1204-1-ND	.69	.35	.28	609-1204-2-ND	1,000	239.60	62674-081121ALF
	12	—	0.413 (10.50)	0.217 (5.50)	—	—	609-1205-1-ND	.73	.36	.30	609-1205-2-ND	1,000	269.43	62674-121121ALF
	16	—	0.492 (12.50)	0.295 (7.50)	—	—	609-1206-1-ND	.78	.40	.33	609-1206-2-ND	1,000	271.20	62674-161121ALF
	20	—	0.571 (14.50)	0.374 (9.50)	—	—	609-1207-1-ND	.80	.39	.33	609-1207-2-ND	1,000	284.40	62674-201121ALF
	21	—	0.591 (15.00)	0.394 (10.00)	—	—	609-1208-1-ND	.83	.41	.35	609-1208-2-ND	2,000	264.75/M	62674-211121ALF
	24	—	0.650 (16.50)	0.453 (11.50)	—	—	609-1210-1-ND	.87	.45	.38	609-1210-2-ND	1,000	309.28	62674-241121ALF
	25	—	0.670 (17.00)	0.472 (12.00)	—	—	609-1211-1-ND	.92	.47	.39	609-1211-2-ND	2,000	307.50/M	62674-251121ALF
	26	—	0.689 (17.50)	0.492 (12.50)	—	—	609-1212-1-ND	.94	.49	.41	609-1212-2-ND	2,000	320.40/M	62674-261121ALF
	30	—	0.768 (19.50)	0.571 (14.50)	—	—	609-1213-1-ND	.97	.50	.42	609-1213-2-ND	1,000	340.85	62674-301121ALF
	32	—	0.807 (20.50)	0.610 (15.50)	—	—	609-1214-1-ND	.96	.51	.43	609-1214-2-ND	1,000	347.20	62674-321121ALF
	33	—	0.827 (21.00)	0.630 (16.00)	—	—	609-1215-1-ND	1.00	.54	.45	609-1215-2-ND	1,000	368.85	62674-331121ALF
62684 Series — Side Entry Without Cable Lock														
2	40	Lower	0.957 (24.30)	0.768 (19.50)	0.079 (2.00)	0.197 (5.00)	609-1195-1-ND	.90	.45	.38	609-1195-2-ND	2,000	361.80/M	62684-401100ALF
	45	Lower	1.055 (26.80)	0.866 (22.00)	0.079 (2.00)	0.197 (5.00)	609-1196-1-ND	1.07	.59	.50	609-1196-2-ND	2,000	387.44/M	62684-451100ALF
	50	Lower	0.957 (24.30)	0.965 (24.50)	0.079 (2.00)	0.197 (5.00)	609-1197-1-ND	.99	.53	.45	609-1197-2-ND	2,000	406.65/M	62684-501100ALF
	32	Upper	0.799 (20.30)	0.610 (15.50)	0.079 (2.00)	0.197 (5.00)	609-1198-1-ND	.93	.47	.40	609-1198-2-ND	2,000	321.15/M	62684-322100ALF
	34	Upper	0.839 (21.30)	0.650 (16.50)	0.079 (2.00)	0.197 (5.00)	609-1199-1-ND	.88	.45	.38	609-1199-2-ND	2,000	360.00/M	62684-342100ALF
	40	Upper	0.957 (24.30)	0.768 (19.50)	0.079 (2.00)	0.197 (5.00)	609-1200-1-ND	1.04	.57	.48	609-1200-2-ND	2,000	375.26/M	62684-402100ALF
	45	Upper	1.055 (26.80)	1.055 (26.80)	0.079 (2.00)	0.197 (5.00)	609-1201-1-ND	.96	.49	.42	609-1201-2-ND	2,000	409.50/M	62684-452100ALF
	50	Upper	1.154 (29.3)	0.965 (24.50)	0.079 (2.00)	0.197 (5.00)	609-1202-1-ND	1.19	.66	.56	609-1202-2-ND	2,000	432.10/M	62684-502100ALF
	55	Upper	1.252 (31.8)	1.063 (27.00)	0.079 (2.00)	0.197 (5.00)	609-1203-1-ND	1.25	.68	.58	609-1203-2-ND	2,000	686.58/M	62684-552100ALF
SFV Series — Side Entry, Upper Contact Location Without Cable Lock														
2	4	Lower	0.295 (7.50)	0.059 (1.50)	0.071 (1.80)	0.165 (4.20)	609-1846-1-ND	.88	.46	.39	609-1846-2-ND	6,000	274.68/M	SFV4R-1STE1LF
	5	Lower	0.315 (8.00)	0.079 (2.00)	0.071 (1.80)	0.165 (4.20)	609-1848-1-ND	.90	.46	.39	609-1848-2-ND	6,000	279.58/M	SFV5R-1STE1LF
	6	Lower	0.335 (8.50)	0.098 (2.50)	0.071 (1.80)	0.165 (4.20)	609-1850-1-ND	1.18	.65	.55	609-1850-2-ND	6,000	412.72/M	SFV6R-1STE1LF
	7	Lower	0.354 (9.00)	0.118 (3.00)	0.071 (1.80)	0.165 (4.20)	609-1852-1-ND	.91	.46	.39	609-1852-2-ND	6,000	283.64/M	SFV7R-1STE1LF
	8	Lower	0.374 (9.50)	0.138 (3.50)	0.071 (1.80)	0.165 (4.20)	609-1854-1-ND	1.16	.64	.54	609-1854-2-ND	6,000	406.56/M	SFV8R-1STE1LF
	10	Lower	0.413 (10.50)	0.177 (4.50)	0.071 (1.80)	0.165 (4.20)	609-1856-1-ND	1.35	.73	.63	609-1856-2-ND	6,000	476.03/M	SFV10R-1STE1LF
	12	Lower	0.453 (11.50)	0.217 (5.50)	0.071 (1.80)	0.165 (4.20)	609-1858-1-ND	1.01	.56	.47	609-1858-2-ND	6,000	353.08/M	SFV12R-1STE1LF
	14	Lower	0.492 (12.50)	0.256 (6.50)	0.071 (1.80)	0.165 (4.20)	609-1860-1-ND	1.05	.58	.49	609-1860-2-ND	6,000	366.80/M	SFV14R-1STE1LF
	15	Lower	0.512 (13.00)	0.276 (7.00)	0.071 (1.80)	0.165 (4.20)	609-1862-1-ND	1.06	.59	.50	609-1862-2-ND	6,000	372.54/M	SFV15R-1STE1LF
	16	Lower	0.531 (13.50)	0.295 (7.50)	0.071 (1.80)	0.165 (4.20)	609-1864-1-ND	1.06	.59	.49	609-1864-2-ND	6,000	370.02/M	SFV16R-1STE1LF
	18	Lower	0.571 (14.50)	0.335 (8.50)	0.071 (1.80)	0.165 (4.20)	609-1866-1-ND	1.62	.88	.77	609-1866-2-ND	6,000	590.49/M	SFV18R-1STE1LF
	20	Lower	0.610 (15.50)	0.374 (9.50)	0.071 (1.80)	0.165 (4.20)	609-1868-1-ND	1.78	.99	.87	609-1868-2-ND	6,000	665.96/M	SFV20R-1STE1LF
	21	Lower	0.630 (16.00)	0.394 (10.00)	0.071 (1.80)	0.165 (4.20)	609-1871-1-ND	1.05	.58	.49	609-1871-2-ND	6,000	366.94/M	SFV21R-1STE1LF
	22	Lower	0.650 (16.50)	0.413 (10.50)	0.071 (1.80)	0.165 (4.20)	609-1873-1-ND	1.65	.92	.81	609-1873-2-ND	6,000	619.11/M	SFV22R-1STE1LF
	24	Lower	0.689 (17.50)	0.453 (11.50)	0.071 (1.80)	0.165 (4.20)	609-1875-1-ND	1.77	.99	.86	609-1875-2-ND	6,000	663.39/M	SFV24R-1STE1LF
	26	Lower	0.728 (18.50)	0.492 (12.50)	0.071 (1.80)	0.165 (4.20)	609-1877-1-ND	1.06	.59	.50	609-1877-2-ND	6,000	372.40/M	SFV26R-1STE1LF
	28	Lower	0.768 (19.50)	0.531 (13.50)	0.071 (1.80)	0.165 (4.20)	609-1879-1-ND	1.38	.77	.66	609-1879-2-ND	6,000	499.13/M	SFV28R-1STE1LF
	30	Lower	0.807 (20.50)	0.571 (14.50)	0.071 (1.80)	0.165 (4.20)	609-1881-1-ND	1.11	.62	.52	609-1881-2-ND	6,000	389.90/M	SFV30R-1STE1LF
SFV Series — Side Entry, Upper Contact Location Without Cable Lock														
2	4	Upper	0.295 (7.50)	0.059 (1.50)	0.071 (1.80)	0.165 (4.20)	609-1847-1-ND	.88	.46	.39	609-1847-2-ND	6,000	275.10/M	SFV4R-2STE1LF
	5	Upper	0.315 (8.00)	0.079 (2.00)	0.071 (1.80)	0.165 (4.20)	609-1849-1-ND	1.05	.58	.49	609-1849-2-ND	6,000	368.20/M	SFV5R-2STE1LF
	6	Upper	0.335 (8.50)	0.098 (2.50)	0.071 (1.80)	0.165 (4.20)	609-1851-1-ND	1.44	.81	.69	609-1851-2-ND	6,000	527.04/M	SFV6R-2STE1LF
	7	Upper	0.354 (9.00)	0.118 (3.00)	0.071 (1.80)	0.165 (4.20)	609-1853-1-ND	1.05	.58	.49	609-1853-2-ND	6,000	367.64/M	SFV7R-2STE1LF

(Continued)

NEW! FCI 0.50 mm (0.020”) FFC-FPC Connectors *(Cont.)*

SMT/ZIF Type

Fig.	No. of Posi-tions	Contact Location	Dimension - Inch (mm) A	B	C	D	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	FCI Part No.
2	8	Upper	0.374 (9.50)	0.138 (3.50)	0.071 (1.80)	0.165 (4.20)	609-1855-1-ND	.84	.42	.35	609-1855-2-ND	6,000	250.74/M	SFV8R-2STE1LF
	10	Upper	0.413 (10.50)	0.177 (4.50)	0.071 (1.80)	0.165 (4.20)	609-1857-1-ND	.93	.48	.41	609-1857-2-ND	6,000	294.84/M	SFV10R-2STE1LF
	12	Upper	0.453 (11.50)	0.217 (5.50)	0.071 (1.80)	0.165 (4.20)	609-1859-1-ND	1.01	.56	.47	609-1859-2-ND	6,000	353.08/M	SFV12R-2STE1LF
	14	Upper	0.492 (12.50)	0.256 (6.50)	0.071 (1.80)	0.165 (4.20)	609-1861-1-ND	1.05	.58	.49	609-1861-2-ND	6,000	366.80/M	SFV14R-2STE1LF
	15	Upper	0.512 (13.00)	0.276 (7.00)	0.071 (1.80)	0.165 (4.20)	609-1863-1-ND	1.25	.68	.58	609-1863-2-ND	6,000	449.82/M	SFV15R-2STE1LF
	16	Upper	0.531 (13.50)	0.295 (7.50)	0.071 (1.80)	0.165 (4.20)	609-1865-1-ND	1.54	.83	.73	609-1865-2-ND	6,000	570.63/M	SFV16R-2STE1LF
	18	Upper	0.571 (14.50)	0.335 (8.50)	0.071 (1.80)	0.165 (4.20)	609-1867-1-ND	1.11	.62	.52	609-1867-2-ND	6,000	389.90/M	SFV18R-2STE1LF
	20	Upper	0.610 (15.50)	0.374 (9.50)	0.071 (1.80)	0.165 (4.20)	609-1869-1-ND	1.50	.84	.72	609-1869-2-ND	6,000	549.45/M	SFV20R-2STE1LF
	21	Upper	0.630 (16.00)	0.394 (10.00)	0.071 (1.80)	0.165 (4.20)	609-1872-1-ND	1.35	.75	.65	609-1872-2-ND	6,000	490.19/M	SFV21R-2STE1LF
	22	Upper	0.650 (16.50)	0.413 (10.50)	0.071 (1.80)	0.165 (4.20)	609-1874-1-ND	1.38	.77	.66	609-1874-2-ND	6,000	498.17/M	SFV22R-2STE1LF
SFV Series — Side Entry With Cable-Lock														
2	20	Upper	0.610 (15.50)	0.374 (9.50)	0.071 (1.80)	0.165 (4.20)	609-1870-1-ND	1.19	.66	.55	609-1870-2-ND	6,000	443.52/M	SFV20R-4STE1LF
Side Entry														
2	10	Lower	0.295 (7.50)	0.177 (4.50)	0.047 (1.20)	0.134 (3.40)	609-1234-1-ND	.86	.43	.37	609-1234-2-ND	4,500	265.77/M	10051922-1010ELF
	11	Lower	0.315 (8.00)	0.197 (5.00)	0.047 (1.20)	0.134 (3.40)	609-1235-1-ND	.86	.44	.38	609-1235-2-ND	4,500	271.04/M	10051922-1110ELF
	12	Lower	0.335 (8.50)	0.217 (5.50)	0.047 (1.20)	0.134 (3.40)	609-1236-1-ND	.87	.45	.38	609-1236-2-ND	4,500	275.17/M	10051922-1210ELF
	14	Lower	0.374 (9.50)	0.256 (6.50)	0.047 (1.20)	0.134 (3.40)	609-1237-1-ND	.90	.46	.39	609-1237-2-ND	4,500	283.44/M	10051922-1410ELF
	15	Lower	0.394 (10.00)	0.276 (7.00)	0.047 (1.20)	0.134 (3.40)	609-1238-1-ND	.91	.46	.39	609-1238-2-ND	4,500	289.56/M	10051922-1510ELF
	18	Lower	0.453 (11.50)	0.335 (8.50)	0.047 (1.20)	0.134 (3.40)	609-1239-1-ND	.93	.48	.40	609-1239-2-ND	4,500	299.97/M	10051922-1810ELF
	20	Lower	0.492 (12.50)	0.374 (9.50)	0.047 (1.20)	0.134 (3.40)	609-1240-1-ND	.95	.49	.42	609-1240-2-ND	4,500	308.23/M	10051922-2010ELF
	24	Lower	0.571 (14.50)	0.453 (11.50)	0.047 (1.20)	0.134 (3.40)	609-1241-1-ND	.99	.53	.45	609-1241-2-ND	4,500	325.36/M	10051922-2410ELF
	26	Lower	0.610 (15.50)	0.492 (12.50)	0.047 (1.20)	0.134 (3.40)	609-1242-1-ND	1.01	.53	.46	609-1242-2-ND	4,500	336.00/M	10051922-2610ELF
	28	Lower	0.650 (16.50)	0.531 (13.50)	0.047 (1.20)	0.134 (3.40)	609-1243-1-ND	1.04	.55	.48	609-1243-2-ND	4,500	346.78/M	10051922-2810ELF
	30	Lower	0.689 (17.50)	0.571 (14.50)	0.047 (1.20)	0.134 (3.40)	609-1244-1-ND	1.13	.62	.53	609-1244-2-ND	4,500	394.10/M	10051922-3010ELF
	45	Lower	0.984 (25.00)	0.866 (22.00)	0.047 (1.20)	0.134 (3.40)	609-1232-1-ND	1.43	.80	.68	609-1232-2-ND	4,500	527.24/M	10042867-45MB10ELF
	57	Lower	1.220 (31.00)	1.102 (28.00)	0.047 (1.20)	0.134 (3.40)	609-1233-1-ND	1.57	.85	.75	609-1233-2-ND	4,500	594.86/M	10042867-57MB10ELF

NEW! FCI 0.80 mm (0.031”) FFC-FPC Connectors

SMT/ZIF Type

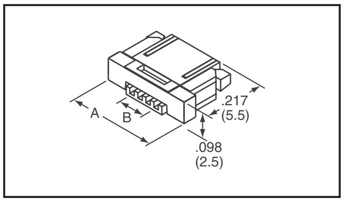

The Gas-Tight, High Pressure (GTH) contact system ensures a low cost connection with reliablity equal to gold plating. The Zero Insertion Force (ZIF) connection allows an increased number of mating cycles with minimal wear. The ZIF pre-holding process provides a stable and reliable mating operation. The slider ensures maximum cable retention wtih a minimum size. Fork shaped contacts mean stable and low contact resistance. The cable lock option provides cable strain relief as well as full retention of cable.

Specifications:
• Housing Material: Glass Reinforced PPS, UL94V-0 • Contact Material: Phosphor Bronze, Matte pure Tin plated • Contact Resistance: 30MΩ maximum • Insulation Resistance: 500 MΩ minimum • Durability (Mating Cycles): 20 Cycles • Temperature Range: -55°C ~ 85°C • Current Rating: 0.5A AC/DC • Voltage Rating: 100V AC/DC

No. of Positions	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	FCI Part No.
4	0.339 (8.60)	0.094 (2.40)	609-1170-1-ND	.86	.45	.38	609-1170-2-ND	2,000	293.85/M	SFR4R-1STE1LF
6	0.402 (10.20)	0.157 (4.00)	609-1171-1-ND	.93	.47	.40	609-1171-2-ND	2,000	309.30/M	SFR6R-1STE1LF
8	0.465 (11.80)	0.220 (5.60)	609-1172-1-ND	.97	.51	.44	609-1172-2-ND	4,000	323.05/M	SFR8R-1STE1LF
10	0.528 (13.40)	0.283 (7.20)	609-1173-1-ND	1.03	.55	.47	609-1173-2-ND	4,000	350.98/M	SFR10R-1STE1LF
12	0.591(15.00)	0.346 (8.80)	609-1174-1-ND	1.04	.58	.49	609-1174-2-ND	2,000	377.29/M	SFR12R-1STE1LF
14	0.654 (16.60)	0.409 (10.40)	609-1175-1-ND	1.05	.58	.49	609-1175-2-ND	4,000	366.80/M	SFR14R-1STE1LF
16	0.717 (18.20)	0.472 (12.00)	609-1176-1-ND	1.08	.60	.50	609-1176-2-ND	2,000	391.50/M	SFR16R-1STE1LF
18	0.780 (19.80)	0.535 (13.60)	609-1177-1-ND	1.10	.61	.51	609-1177-2-ND	2,000	410.21/M	SFR18R-1STE1LF
20	0.843 (21.40)	0.598 (15.20)	609-1178-1-ND	1.30	.71	.61	609-1178-2-ND	2,000	484.30/M	SFR20R-1STE1LF
22	0.906 (23.00)	0.661 (16.80)	609-1179-1-ND	1.34	.73	.62	609-1179-2-ND	2,000	507.79/M	SFR22R-1STE1LF
24	0.969 (24.60)	0.724 (18.40)	609-1180-1-ND	1.22	.69	.57	609-1180-2-ND	2,000	452.26/M	SFR24R-1STE1LF
26	1.031 (26.20)	0.787 (20.00)	609-1181-1-ND	1.28	.69	.60	609-1181-2-ND	2,000	491.26/M	SFR26R-1STE1LF
28	1.094 (27.80)	0.850 (21.60)	609-1182-1-ND	1.27	.69	.59	609-1182-2-ND	2,000	504.31/M	SFR28R-1STE1LF
30	1.157 (29.40)	0.913 (23.20)	609-1183-1-ND	1.33	.72	.62	609-1183-2-ND	2,000	509.10/M	SFR30R-1STE1LF

NEW! FCI 1.00 mm (0.039”) FFC-FPC Connectors

The Gas-Tight, High pressure (GTH) contact system ensures a low cost connection with reliability equal to gold plating. The Zero Insertion Force connection allows an increased number of mating cycles with minimal wear. The ZIF per-holding process allows a stable and reliable mating operation. The Low Insertion Force (LIF) contacts positioning provides a reliable and easy mating operation. The slider ensures maximum cable retention with a mimimum size. Fork shaped contacts mean stable and low contact resistance. Kinked solder tails provide added PCB retention.

Specifications:
• Current Rating: 1 A AC/DC • Voltage Rating: 100 V AC/DC • Contact Resistance: 30 mΩ maximum • Insulation Resistance: 500 MΩ minimum • Durability (Mating Cycles): ZIF - 20 cycles, LIF - 30 cycles • Temperature Range: -55°C ~ 85°C

SLW Series: • Housing: Nylon, Glass Reinforced, UL94V-0, Black • Slider: Nylon, Glass Reinforced, UL94V-0, Black • Contact: Phosphor Bronze, Tin Alloy Plated

HLW Series: • Housing: PBT, Glass Reinforced, UL94V-0, Black • Contact: Phosphor Bronze, Tin Alloy Plated

HFW Series: • Housing: Polyamide 6T, Glass Reinforced, UL94V-0, Black • Contact: Phospor Bronze, Tin Alloy Plated

SFW Series: • Housing: *For Right Angle Version:* PPS, Glass Reinforced, UL94V-0 *For FPC/FCC:* Housing Color: Brown (with cable-lock: Black) Slider Color: Black (with cable-lock: Brown) *For Vertical Version:* Heat-Resisting Resin, Glass Reinforced, UL94V-0 Housing Color: Brown Slider Color: Black • Contact Phosphor Bronze, Tin Alloy Plated

Fig. 1

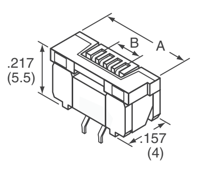

Fig. 2

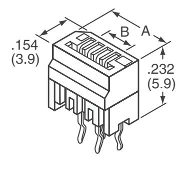

Fig. 3

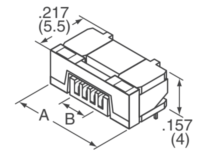

Fig. 4

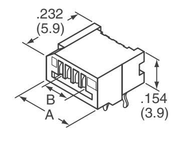

Fig. 5

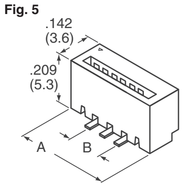

Fig. 6

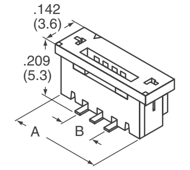

Fig. 7

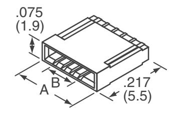

Fig. 8

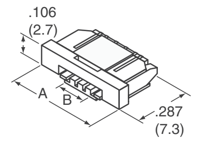

Fig.	No. of Positions	Dimension - Inch (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	FCI Part No.
SLW Series — Top Entry PC Mount ZIF											
1	4	0.402 (10.20)	0.205 (5.20)	609-1929-ND†	.54	.27	.21	—	—	—	SLW4S-1C7LF
	5	0.441 (11.20)	0.244 (6.20)	609-1931-ND†	.35	.15	.12	—	—	—	SLW5S-1C7LF
	6	0.480 (12.20)	0.283 (7.20)	609-1933-ND†	.36	.15	.12	—	—	—	SLW6S-1C7LF
	8	0.559 (14.20)	0.362 (9.20)	609-1935-ND†	.56	.28	.23	—	—	—	SLW8S-1C7LF
	10	0.638 (16.20)	0.441 (11.20)	609-1937-ND†	.40	.18	.14	—	—	—	SLW10S-1C7LF

† Bulk

(Continued)

NEW! 1.00 mm (0.039") FFC-FPC Connectors *(Cont.)*

Fig.	No. of Positions	Dimension - Inch (mm)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		FCI Part No.
		A	B		1	25	100		Size	Pricing	
1	12	0.717 (18.20)	0.520 (13.20)	609-1939-ND†	1.16	.65	.54	—	—	—	SLW12S-1C7LF
	14	0.795 (20.20)	0.598 (15.20)	609-1941-ND†	.70	.35	.29	—	—	—	SLW14S-1C7LF
	15	0.835 (21.20)	0.638 (16.20)	609-1943-ND†	1.32	.72	.61	—	—	—	SLW15S-1C7LF
	16	0.874 (22.20)	0.677 (17.20)	609-1945-ND†	1.26	.68	.59	—	—	—	SLW16S-1C7LF
	18	0.953 (24.20)	0.756 (19.20)	609-1947-ND†	.47	.20	.17	—	—	—	SLW18S-1C7LF
	20	1.031 (26.20)	0.835 (21.20)	609-1949-ND†	.97	.51	.43	—	—	—	SLW20S-1C7LF
	22	1.110 (28.20)	0.913 (23.20)	609-1951-ND†	.74	.38	.31	—	—	—	SLW22S-1C7LF
	24	1.189 (30.20)	0.992 (25.20)	609-1953-ND†	.51	.21	.18	—	—	—	SLW24S-1C7LF
	26	1.268 (32.20)	1.071 (27.20)	609-1955-ND†	.51	.25	.20	—	—	—	SLW26S-1C7LF
	28	1.346 (34.20)	1.150 (29.20)	609-1957-ND†	.53	.24	.20	—	—	—	SLW28S-1C7LF
	30	1.425 (36.20)	1.228 (31.20)	609-1959-ND†	.56	.25	.21	—	—	—	SLW30S-1C7LF
HLW Series — Top Entry PC Mount LIF											
2	4	0.260 (6.60)	0.118 (3.00)	609-1815-ND†	.20	.09	.07	—	—	—	HLW4S-2C7LF
	5	0.300 (7.60)	0.157 (4.00)	609-1817-ND†	.21	.08	.07	—	—	—	HLW5S-2C7LF
	6	0.339 (8.60)	0.197 (5.00)	609-1819-ND†	.24	.10	.08	—	—	—	HLW6S-2C7LF
	8	0.417 (10.60)	0.276 (7.00)	609-1821-ND†	.24	.10	.08	—	—	—	HLW8S-2C7LF
	10	0.496 (12.60)	0.354 (9.00)	609-1823-ND†	.26	.10	.08	—	—	—	HLW10S-2C7LF
	12	0.575 (14.60)	0.433 (11.00)	609-1825-ND†	.45	.22	.18	—	—	—	HLW12S-2C7LF
	14	0.654 (16.60)	0.512 (13.00)	609-1827-ND†	.31	.14	.11	—	—	—	HLW14S-2C7LF
	15	0.693 (17.60)	0.551 (14.00)	609-1829-ND†	.30	.12	.10	—	—	—	HLW15S-2C7LF
	16	0.732 (18.60)	0.591 (15.00)	609-1831-ND†	.32	.15	.12	—	—	—	HLW16S-2C7LF
	18	0.811 (20.60)	0.670 (17.00)	609-1833-ND†	.32	.14	.11	—	—	—	HLW18S-2C7LF
	20	0.890 (22.60)	0.748 (19.00)	609-1835-ND†	.34	.14	.11	—	—	—	HLW20S-2C7LF
	22	0.969 (24.60)	0.827 (21.00)	609-1837-ND†	.34	.14	.12	—	—	—	HLW22S-2C7LF
	24	1.047 (26.60)	0.906 (23.00)	609-1839-ND†	.36	.15	.12	—	—	—	HLW24S-2C7LF
	26	1.126 (28.60)	0.984 (25.00)	609-1841-ND†	.38	.15	.13	—	—	—	HLW26S-2C7LF
	28	1.205 (30.60)	1.063 (27.00)	609-1843-ND†	.39	.15	.13	—	—	—	HLW28S-2C7LF
	30	1.283 (32.60)	1.142 (29.00)	609-1845-ND†	.40	.17	.14	—	—	—	HLW30S-2C7LF
SLW Series — Side Entry PC Mount ZIF											
3	4	0.402 (10.20)	0.205 (5.20)	609-1928-ND†	.49	.24	.19	—	—	—	SLW4R-1C7LF
	5	0.441 (11.20)	0.244 (6.20)	609-1930-ND†	.44	.20	.16	—	—	—	SLW5R-1C7LF
	6	0.480 (12.20)	0.283 (7.20)	609-1932-ND†	.45	.20	.16	—	—	—	SLW6R-1C7LF
	8	0.559 (14.20)	0.362 (9.20)	609-1934-ND†	.54	.27	.22	—	—	—	SLW8R-1C7LF
	10	0.638 (16.20)	0.441 (11.20)	609-1936-ND†	.60	.30	.24	—	—	—	SLW10R-1C7LF
	12	0.717 (18.20)	0.520 (13.20)	609-1938-ND†	1.17	.65	.55	—	—	—	SLW12R-1C7LF
	14	0.795 (20.20)	0.598 (15.20)	609-1940-ND†	.52	.22	.19	—	—	—	SLW14R-1C7LF
	15	0.835 (21.20)	0.638 (16.20)	609-1942-ND†	.67	.33	.27	—	—	—	SLW15R-1C7LF
	16	0.874 (22.20)	0.677 (17.20)	609-1944-ND†	.70	.35	.29	—	—	—	SLW16R-1C7LF
	18	0.953 (24.20)	0.756 (19.20)	609-1946-ND†	.82	.40	.34	—	—	—	SLW18R-1C7LF
	20	1.031 (26.20)	0.835 (21.20)	609-1948-ND†	.77	.39	.32	—	—	—	SLW20R-1C7LF
	22	1.110 (28.20)	0.913 (23.20)	609-1950-ND†	.80	.41	.33	—	—	—	SLW22R-1C7LF
	24	1.189 (30.20)	0.992 (25.20)	609-1952-ND†	.81	.40	.34	—	—	—	SLW24R-1C7LF
	26	1.268 (32.20)	1.071 (27.20)	609-1954-ND†	.83	.42	.36	—	—	—	SLW26R-1C7LF
	28	1.346 (34.20)	1.150 (29.20)	609-1956-ND†	.66	.30	.26	—	—	—	SLW28R-1C7LF
	30	1.425 (36.20)	1.228 (31.20)	609-1958-ND†	1.02	.54	.47	—	—	—	SLW30R-1C7LF
HLW Series — Side Entry PC Mount LIF											
4	4	0.260 (6.60)	0.118 (3.00)	609-1814-ND†	.22	.09	.08	—	—	—	HLW4R-2C7LF
	5	0.300 (7.60)	0.157 (4.00)	609-1816-ND†	.23	.09	.07	—	—	—	HLW5R-2C7LF
	6	0.339 (8.60)	0.197 (5.00)	609-1818-ND†	.23	.09	.07	—	—	—	HLW6R-2C7LF
	8	0.417 (10.60)	0.276 (7.00)	609-1820-ND†	.25	.10	.08	—	—	—	HLW8R-2C7LF
	10	0.496 (12.60)	0.354 (9.00)	609-1822-ND†	.28	.11	.09	—	—	—	HLW10R-2C7LF
	12	0.575 (14.60)	0.433 (11.00)	609-1824-ND†	.31	.12	.10	—	—	—	HLW12R-2C7LF
	14	0.654 (16.60)	0.512 (13.00)	609-1826-ND†	.32	.13	.11	—	—	—	HLW14R-2C7LF
	15	0.693 (17.60)	0.551 (14.00)	609-1828-ND†	.54	.27	.22	—	—	—	HLW15R-2C7LF
	16	0.732 (18.60)	0.591 (15.00)	609-1830-ND†	.33	.16	.12	—	—	—	HLW16R-2C7LF
	18	0.811 (20.60)	0.670 (17.00)	609-1832-ND†	.35	.15	.12	—	—	—	HLW18R-2C7LF
	20	0.890 (22.60)	0.748 (19.00)	609-1834-ND†	.36	.15	.12	—	—	—	HLW20R-2C7LF
	22	0.969 (24.60)	0.827 (21.00)	609-1836-ND†	.38	.16	.13	—	—	—	HLW22R-2C7LF
	24	1.047 (26.60)	0.906 (23.00)	609-1838-ND†	.40	.18	.15	—	—	—	HLW24R-2C7LF
	26	1.126 (28.60)	0.984 (25.00)	609-1840-ND†	.41	.17	.14	—	—	—	HLW26R-2C7LF
	28	1.205 (30.60)	1.063 (27.00)	609-1842-ND†	.42	.17	.15	—	—	—	HLW28R-2C7LF
	30	1.283 (32.60)	1.142 (29.00)	609-1844-ND†	.44	.19	.16	—	—	—	HLW30R-2C7LF
HFW Series —Top Entry SMT Non-ZIF											
5	4	0.276 (7.00)	0.118 (3.00)	609-1105-1-ND	.51	.25	.20	609-1105-2-ND	1,000	197.19	HFW4S-2STE1LF
	5	0.315 (8.00)	0.157 (4.00)	609-1106-1-ND	.69	.35	.28	609-1106-2-ND	1,000	227.70	HFW5S-2STE1LF
	6	0.354 (9.00)	0.197 (5.00)	609-1107-1-ND	.52	.26	.21	609-1107-2-ND	1,000	209.16	HFW6S-2STE1LF
	7	0.394 (10.00)	0.236 (6.00)	609-1108-1-ND	.51	.26	.21	609-1108-2-ND	1,000	164.14	HFW7S-2STE1LF
	8	0.433 (11.00)	0.276 (7.00)	609-1109-1-ND	.73	.37	.30	609-1109-2-ND	1,000	244.96	HFW8S-2STE1LF
	9	0.472 (12.00)	0.315 (8.00)	609-1110-1-ND	.56	.28	.22	609-1110-2-ND	1,000	205.87	HFW9S-2STE1LF
	10	0.512 (13.00)	0.354 (9.00)	609-1111-1-ND	.78	.40	.32	609-1111-2-ND	1,000	261.12	HFW10S-2STE1LF
	11	0.551 (14.00)	0.394 (10.00)	609-1112-1-ND	.58	.29	.23	609-1112-2-ND	1,000	184.19	HFW11S-2STE1LF
	12	0.591 (15.00)	0.433 (11.00)	609-1113-1-ND	.81	.40	.34	609-1113-2-ND	1,000	277.12	HFW12S-2STE1LF
	13	0.630 (16.00)	0.472 (12.00)	609-1114-1-ND	.60	.30	.24	609-1114-2-ND	1,000	192.01	HFW13S-2STE1LF
	14	0.670 (17.00)	0.512 (13.00)	609-1115-1-ND	.63	.32	.26	609-1115-2-ND	1,000	205.71	HFW14S-2STE1LF
	15	0.709 (18.00)	0.551 (14.00)	609-1116-1-ND	.66	.33	.27	609-1116-2-ND	1,000	213.53	HFW15S-2STE1LF
	16	0.748 (19.00)	0.591 (15.00)	609-1117-1-ND	.65	.32	.27	609-1117-2-ND	1,000	212.55	HFW16S-2STE1LF
	17	0.787 (20.00)	0.630 (16.00)	609-1118-1-ND	.67	.32	.27	609-1118-2-ND	1,000	217.44	HFW17S-2STE1LF
	18	0.827 (21.00)	0.670 (17.00)	609-1119-1-ND	.87	.44	.37	609-1119-2-ND	1,000	303.20	HFW18S-2STE1LF
	19	0.866 (22.00)	0.709 (18.00)	609-1120-1-ND	.71	.35	.29	609-1120-2-ND	1,000	235.54	HFW19S-2STE1LF
	20	0.906 (23.00)	0.748 (19.00)	609-1121-1-ND	.69	.34	.28	609-1121-2-ND	1,000	225.43	HFW20S-2STE1LF
	21	0.945 (24.00)	0.787 (20.00)	609-1122-1-ND	.69	.34	.29	609-1122-2-ND	1,000	230.32	HFW21S-2STE1LF
	22	0.984 (25.00)	0.827 (21.00)	609-1123-1-ND	.70	.35	.29	609-1123-2-ND	1,000	232.60	HFW22S-2STE1LF
	23	1.024 (26.00)	0.866 (22.00)	609-1124-1-ND	.69	.35	.28	609-1124-2-ND	1,000	276.12	HFW23S-2STE1LF
	24	1.063 (27.00)	0.906 (23.00)	609-1125-1-ND	.73	.36	.30	609-1125-2-ND	1,000	334.56	HFW24S-2STE1LF
	25	1.102 (28.00)	0.945 (24.00)	609-1126-1-ND	.74	.37	.30	609-1126-2-ND	1.000	300.48	HFW25S-2STE1LF
	26	1.142 (29.00)	0.984 (25.00)	609-1127-1-ND	.75	.38	.31	609-1127-2-ND	1,000	304.32	HFW26S-2STE1LF
	27	1.181 (30.00)	1.024 (26.00)	609-1128-1-ND	.76	.39	.32	609-1128-2-ND	1,000	312.96	HFW27S-2STE1LF
	28	1.220 (31.00)	1.063 (27.00)	609-1129-1-ND	1.02	.56	.48	609-1129-2-ND	1,000	406.56	HFW28S-2STE1LF
	29	1.260 (32.00)	1.102 (28.00)	609-1130-1-ND	.78	.40	.32	609-1130-2-ND	1,000	332.48	HFW29S-2STE1LF
	32	1.378 (35.00)	1.220 (31.00)	609-1131-1-ND	.84	.41	.35	609-1131-2-ND	1,000	349.60	HFW32S-2STE1LF
SFW Series — Top Entry - SMT, ZIF (Without Mounting Plate)											
6	4	0.409 (10.40)	0.118 (3.00)	609-1132-1-ND	.78	.40	.32	609-1132-2-ND	1,000	267.04	SFW4S-2STE1LF
	5	0.449 (11.40)	0.157 (4.00)	609-1134-1-ND	.72	.37	.30	609-1134-2-ND	1,000	241.28	SFW5S-2STE1LF
	6	0.488 (12.40)	0.197 (5.00)	609-1136-1-ND	.80	.40	.34	609-1136-2-ND	1,000	274.40	SFW6S-2STE1LF
	8	0.567 (14.40)	0.276 (7.00)	609-1139-1-ND	.73	.37	.30	609-1139-2-ND	1,000	243.52	SFW8S-2STE1LF
	10	0.646 (16.40)	0.354 (9.00)	609-1140-1-ND	.83	.41	.35	609-1140-2-ND	1,000	283.68	SFW10S-2STE1LF
	11	0.685 (17.40)	0.394 (10.00)	609-1142-1-ND	.86	.44	.37	609-1142-2-ND	1,000	309.76	SFW11S-2STE1LF
	12	0.724 (18.40)	0.433 (11.00)	609-1144-1-ND	.86	.45	.38	609-1144-2-ND	1,000	307.52	SFW12S-2STE1LF
	14	0.803 (20.40)	0.512 (13.00)	609-1146-1-ND	.97	.51	.44	609-1146-2-ND	1,000	351.39	SFW14S-2STE1LF
	15	0.843 (21.40)	0.551 (14.00)	609-1148-1-ND	.86	.44	.38	609-1148-2-ND	1,000	311.20	SFW15S-2STE1LF
	16	0.882 (22.40)	0.591 (15.00)	609-1150-1-ND	.86	.44	.38	609-1150-2-ND	1,000	305.92	SFW16S-2STE1LF
	17	0.921 (23.40)	0.630 (16.00)	609-1152-1-ND	.93	.47	.40	609-1152-2-ND	1,000	334.18	SFW17S-2STE1LF
	18	0.961 (24.40)	0.670 (17.00)	609-1154-1-ND	.90	.46	.39	609-1154-2-ND	1,000	323.64	SFW18S-2STE1LF
	20	1.040 (26.40)	0.748 (19.00)	609-1156-1-ND	.68	.33	.28	609-1156-2-ND	1,000	220.87	SFW20S-2STE1LF
	22	1.118 (28.40)	0.827 (21.00)	609-1158-1-ND	1.00	.56	.47	609-1158-2-ND	1,000	389.36	SFW22S-2STE1LF
	23	1.157 (29.40)	0.866 (22.00)	609-1160-1-ND	.96	.49	.42	609-1160-2-ND	1,000	347.51	SFW23S-2STE1LF
	24	1.197 (30.40)	0.906 (23.00)	609-1162-1-ND	1.19	.66	.55	609-1162-2-ND	1,000	453.65	SFW24S-2STE1LF

† Bulk

(Continued)

NEW! 1.00 mm (0.039”) FFC-FPC Connectors *(Cont.)*

Fig.	No. of Positions	Dimension - Inch (mm) A	B	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	FCI Part No.
6	26	1.276 (32.40)	0.984 (25.00)	609-1164-1-ND	.96	.51	.43	609-1164-2-ND	1,000	359.14	SFW26S-2STE1LF
	28	1.354 (34.40)	1.063 (27.00)	609-1166-1-ND	1.21	.69	.56	609-1166-2-ND	1,000	465.00	SFW28S-2STE1LF
	30	1.433 (36.40)	1.142 (29.00)	609-1168-1-ND	1.03	.54	.47	609-1168-2-ND	1,000	378.82	SFW30S-2STE1LF
SFW Series — Top Entry SMT ZIF With Mounting Plate											
6	4	0.409 (10.40)	0.118 (3.00)	609-1133-1-ND	.83	.42	.36	609-1133-2-ND	1,000	293.60	SFW4S-2STME1LF
	5	0.449 (11.40)	0.157 (4.00)	609-1135-1-ND	.84	.41	.35	609-1135-2-ND	1,000	292.16	SFW5S-2STME1LF
	6	0.488 (12.40)	0.197 (5.00)	609-1137-1-ND	.87	.44	.37	609-1137-2-ND	1,000	306.56	SFW6S-2STME1LF
	8	0.567 (14.40)	0.276 (7.00)	609-1138-1-ND	.83	.41	.35	609-1138-2-ND	1,000	283.84	SFW8S-2STME1LF
	10	0.646 (16.40)	0.354 (9.00)	609-1141-1-ND	.85	.42	.36	609-1141-2-ND	1,000	287.84	SFW10S-2STME1LF
	11	0.685 (17.40)	0.394 (10.00)	609-1143-1-ND	.92	.47	.39	609-1143-2-ND	1,000	325.66	SFW11S-2STME1LF
	12	0.724 (18.40)	0.433 (11.00)	609-1145-1-ND	.94	.48	.41	609-1145-2-ND	1,000	338.37	SFW12S-2STME1LF
	14	0.803 (20.40)	0.512 (13.00)	609-1147-1-ND	.87	.44	.37	609-1147-2-ND	1,000	301.92	SFW14S-2STME1LF
	15	0.843 (21.40)	0.551 (14.00)	609-1149-1-ND	.93	.47	.40	609-1149-2-ND	1,000	329.07	SFW15S-2STME1LF
	16	0.882 (22.40)	0.591 (15.00)	609-1151-1-ND	.95	.50	.43	609-1151-2-ND	1,000	355.73	SFW16S-2STME1LF
	17	0.921 (23.40)	0.630 (16.00)	609-1153-1-ND	.97	.51	.43	609-1153-2-ND	1,000	359.91	SFW17S-2STME1LF
	18	0.961 (24.40)	0.670 (17.00)	609-1155-1-ND	.95	.49	.42	609-1155-2-ND	1,000	349.53	SFW18S-2STME1LF
	20	1.040 (26.40)	0.748 (19.00)	609-1157-1-ND	.95	.50	.42	609-1157-2-ND	1,000	399.28	SFW20S-2STME1LF
	22	1.118 (28.40)	0.827 (21.00)	609-1159-1-ND	.98	.52	.44	609-1159-2-ND	1,000	367.82	SFW22S-2STME1LF
	23	1.157 (29.40)	0.866 (22.00)	609-1161-1-ND	1.01	.53	.46	609-1161-2-ND	1,000	387.66	SFW23S-2STME1LF
	24	1.197 (30.40)	0.906 (23.00)	609-1163-1-ND	1.00	.53	.45	609-1163-2-ND	1,000	375.26	SFW24S-2STME1LF
	26	1.276 (32.40)	0.984 (25.00)	609-1165-1-ND	1.01	.53	.46	609-1165-2-ND	1,000	384.87	SFW26S-2STME1LF
	28	1.354 (34.40)	1.063 (27.00)	609-1167-1-ND	1.02	.54	.47	609-1167-2-ND	1,000	389.36	SFW28S-2STME1LF
	30	1.433 (36.40)	1.142 (29.00)	609-1169-1-ND	1.03	.57	.48	609-1169-2-ND	1,000	395.05	SFW30S-2STME1LF
HFW Series — Side Entry SMT LIF, Lower Contact Type											
7	4	0.260 (6.60)	0.118 (3.00)	609-1782-1-ND	.66	.34	.27	609-1782-2-ND	2,000	203.34/M	HFW4R-1STE1LF
	5	0.300 (7.60)	0.157 (4.00)	609-1784-1-ND	.49	.23	.19	609-1784-2-ND	2,000	141.12/M	HFW5R-1STE1LF
	6	0.339 (8.60)	0.197 (5.00)	609-1786-1-ND	.50	.24	.20	609-1786-2-ND	2,000	146.72/M	HFW6R-1STE1LF
	8	0.417 (10.60)	0.276 (7.00)	609-1788-1-ND	.78	.40	.33	609-1788-2-ND	2,000	247.65/M	HFW8R-1STE1LF
	10	0.496 (12.60)	0.354 (9.00)	609-1790-1-ND	.78	.40	.32	609-1790-2-ND	2,000	244.80/M	HFW10R-1STE1LF
	12	0.575 (14.60)	0.433 (11.00)	609-1792-1-ND	.51	.26	.21	609-1792-2-ND	2,000	155.47/M	HFW12R-1STE1LF
	14	0.654 (16.60)	0.512 (13.00)	609-1794-1-ND	.88	.45	.38	609-1794-2-ND	2,000	291.75/M	HFW14R-1STE1LF
	15	0.693 (17.60)	0.551 (14.00)	609-1796-1-ND	.92	.46	.39	609-1796-2-ND	2,000	305.10/M	HFW15R-1STE1LF
	16	0.732 (18.60)	0.591 (15.00)	609-1798-1-ND	.80	.39	.33	609-1798-2-ND	2,000	252.75/M	HFW16R-1STE1LF
	18	0.811 (20.60)	0.670 (17.00)	609-1800-1-ND	.87	.44	.37	609-1800-2-ND	2,000	284.25/M	HFW18R-1STE1LF
	20	0.890 (22.60)	0.748 (19.00)	609-1802-1-ND	.66	.32	.27	609-1802-2-ND	2,000	202.57/M	HFW20R-1STE1LF
	22	0.969 (24.60)	0.827 (21.00)	609-1804-1-ND	.66	.33	.27	609-1804-2-ND	2,000	211.14/M	HFW22R-1STE1LF
	24	1.047(26.60)	0.906 (23.00)	609-1806-1-ND	.71	.35	.30	609-1806-2-ND	2,000	222.46/M	HFW24R-1STE1LF
	26	1.126 (28.60)	0.984 (25.00)	609-1808-1-ND	.72	.37	.30	609-1808-2-ND	2,000	225.75/M	HFW26R-1STE1LF
	28	1.205 (30.60)	1.063 (27.00)	609-1810-1-ND	.76	.38	.31	609-1810-2-ND	2,000	236.55/M	HFW28R-1STE1LF
	30	1.283 (32.60)	1.142 (29.00)	609-1812-1-ND	1.09	.60	.51	609-1812-2-ND	2,000	393.39/M	HFW30R-1STE1LF
HFW Series — Side Entry SMT LIF, Upper Contact Type											
7	4	0.260 (6.60)	0.118 (3.00)	609-1783-1-ND	.75	.38	.31	609-1783-2-ND	2,000	235.50/M	HFW4R-2STE1LF
	5	0.300 (7.60)	0.157 (4.00)	609-1785-1-ND	.50	.25	.20	609-1785-2-ND	2,000	148.16/M	HFW5R-2STE1LF
	6	0.339 (8.60)	0.197 (5.00)	609-1787-1-ND	.50	.24	.20	609-1787-2-ND	2,000	147.68/M	HFW6R-2STE1LF
	8	0.417 (10.60)	0.276 (7.00)	609-1789-1-ND	.50	.25	.21	609-1789-2-ND	2,000	153.60/M	HFW8R-2STE1LF
	10	0.496 (12.60)	0.354 (9.00)	609-1791-1-ND	.72	.37	.30	609-1791-2-ND	2,000	225.15/M	HFW10R-2STE1LF
	12	0.575 (14.60)	0.433 (11.00)	609-1793-1-ND	.52	.26	.21	609-1793-2-ND	2,000	158.10/M	HFW12R-2STE1LF
	14	0.654 (16.60)	0.512 (13.00)	609-1795-1-ND	.78	.40	.33	609-1795-2-ND	2,000	247.35/M	HFW14R-2STE1LF
	15	0.693 (17.60)	0.551 (14.00)	609-1797-1-ND	.57	.28	.23	609-1797-2-ND	2,000	173.60/M	HFW15R-2STE1LF
	16	0.732 (18.60)	0.591 (15.00)	609-1799-1-ND	.59	.29	.24	609-1799-2-ND	2,000	178.41/M	HFW16R-2STE1LF
	18	0.811 (20.60)	0.670 (17.00)	609-1801-1-ND	.65	.32	.27	609-1801-2-ND	2,000	199.82/M	HFW18R-2STE1LF
	20	0.890 (22.60)	0.748 (19.00)	609-1803-1-ND	.67	.33	.27	609-1803-2-ND	2,000	206.09/M	HFW20R-2STE1LF
	22	0.969 (24.60)	0.827 (21.00)	609-1805-1-ND	.66	.33	.27	609-1805-2-ND	2,000	211.75/M	HFW22R-2STE1LF
	24	1.047 (26.60)	0.906 (23.00)	609-1807-1-ND	.72	.36	.30	609-1807-2-ND	2,000	225.07/M	HFW24R-2STE1LF
	26	1.126 (28.60)	0.984 (25.00)	609-1809-1-ND	.75	.38	.31	609-1809-2-ND	2,000	233.10/M	HFW26R-2STE1LF
	28	1.205 (30.60)	1.063 (27.00)	609-1811-1-ND	.77	.40	.32	609-1811-2-ND	2,000	244.20/M	HFW28R-2STE1LF
	30	1.283 (32.60)	1.142 (29.00)	609-1813-1-ND	.81	.40	.34	609-1813-2-ND	2,000	258.30/M	HFW30R-2STE1LF
SFW Series — Side Entry SMT ZIF, Lower Contact Type											
8	4	0.386 (9.80)	0.118 (3.00)	609-1883-1-ND	.86	.44	.37	609-1883-2-ND	2,000	280.80/M	SFW4R-1STE1LF
	5	0.425 (10.80)	0.157 (4.00)	609-1887-1-ND	.89	.46	.39	609-1887-2-ND	2,000	296.40/M	SFW5R-1STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1889-1-ND	.56	.28	.22	609-1889-2-ND	2,000	170.19/M	SFW6R-1STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1893-1-ND	.77	.40	.32	609-1893-2-ND	2,000	244.35/M	SFW8R-1STE1LF
	10	0.622 (15.80)	0.354 (9.00)	609-1897-1-ND	1.00	.53	.45	609-1897-2-ND	2,000	350.10/M	SFW10R-1STE1LF
	12	0.701 (17.80)	0.433 (11.00)	609-1900-1-ND	.84	.43	.36	609-1900-2-ND	2,000	274.50/M	SFW12R-1STE1LF
	14	0.780 (19.80)	0.512 (13.00)	609-1902-1-ND	.88	.46	.39	609-1902-2-ND	2,000	294.75/M	SFW14R-1STE1LF
	15	0.819 (20.80)	0.551 (14.00)	609-1905-1-ND	.95	.49	.41	609-1905-2-ND	2,000	322.80/M	SFW15R-1STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1907-1-ND	1.12	.62	.52	609-1907-2-ND	2,000	407.16/M	SFW16R-1STE1LF
	18	0.937 (23.80)	0.670 (17.00)	609-1911-1-ND	.95	.50	.43	609-1911-2-ND	2,000	332.25/M	SFW18R-1STE1LF
	20	1.016 (25.80)	0.748 (19.00)	609-1913-1-ND	1.38	.77	.66	609-1913-2-ND	2,000	526.93/M	SFW20R-1STE1LF
	22	1.094 (27.80)	0.827 (21.00)	609-1916-1-ND	1.01	.53	.46	609-1916-2-ND	2,000	360.30/M	SFW22R-1STE1LF
	24	1.173 (29.80)	0.906 (23.00)	609-1919-1-ND	1.01	.56	.47	609-1919-2-ND	2,000	365.55/M	SFW24R-1STE1LF
	26	1.252 (31.80)	0.984 (25.00)	609-1921-1-ND	1.51	.82	.72	609-1921-2-ND	2,000	581.55/M	SFW26R-1STE1LF
	28	1.331 (33.80)	1.063 (27.00)	609-1924-1-ND	.90	.45	.38	609-1924-2-ND	2,000	300.00/M	SFW28R-1STE1LF
	30	1.409 (35.80)	1.142 (29.00)	609-1926-1-ND	1.23	.70	.57	609-1926-2-ND	2,000	456.90/M	SFW30R-1STE1LF
SFW Series — Side Entry SMT ZIF, Upper Contact Type											
8	4	0.386 (9.80)	0.118 (3.00)	609-1884-1-ND	.86	.44	.37	609-1884-2-ND	2,000	280.80/M	SFW4R-2STE1LF
	5	0.425 (10.80)	0.157 (4.00)	609-1888-1-ND	.86	.44	.37	609-1888-2-ND	2,000	280.80/M	SFW5R-2STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1890-1-ND	1.00	.53	.45	609-1890-2-ND	2,000	352.05/M	SFW6R-2STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1894-1-ND	.76	.39	.32	609-1894-2-ND	2,000	238.65/M	SFW8R-2STE1LF
	10	0.622 (15.80)	0.354 (9.00)	609-1898-1-ND	.63	.32	.26	609-1898-2-ND	2,000	191.71/M	SFW10R-2STE1LF
	12	0.701 (17.80)	0.433 (11.00)	609-1901-1-ND	1.04	.58	.49	609-1901-2-ND	2,000	377.00/M	SFW12R-2STE1LF
	14	0.780 (19.80)	0.512 (13.00)	609-1903-1-ND	1.17	.65	.54	609-1903-2-ND	2,000	422.68/M	SFW14R-2STE1LF
	15	0.819 (20.80)	0.551 (14.00)	609-1906-1-ND	.91	.46	.39	609-1906-2-ND	2,000	303.00/M	SFW15R-2STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1908-1-ND	.94	.47	.40	609-1908-2-ND	2,000	312.00/M	SFW16R-2STE1LF
	18	0.937 (23.80)	0.670 (17.00)	609-1912-1-ND	1.16	.65	.54	609-1912-2-ND	2,000	422.24/M	SFW18R-2STE1LF
	20	1.016 (25.80)	0.748 (19.00)	609-1914-1-ND	1.05	.55	.48	609-1914-2-ND	2,000	374.40/M	SFW20R-2STE1LF
	22	1.094 (27.80)	0.827 (21.00)	609-1917-1-ND	1.01	.54	.46	609-1917-2-ND	2,000	361.50/M	SFW22R-2STE1LF
	24	1.173 (29.80)	0.906 (23.00)	609-1920-1-ND	1.43	.81	.69	609-1920-2-ND	2,000	543.64/M	SFW24R-2STE1LF
	26	1.252 (31.80)	0.984 (25.00)	609-1922-1-ND	1.31	.71	.61	609-1922-2-ND	2,000	488.65/M	SFW26R-2STE1LF
	28	1.331 (33.80)	1.063 (27.00)	609-1925-1-ND	.91	.46	.39	609-1925-2-ND	2,000	303.15/M	SFW28R-2STE1LF
	30	1.409 (35.80)	1.142 (29.00)	609-1927-1-ND	1.55	.84	.74	609-1927-2-ND	2,000	597.22/M	SFW30R-2STE1LF
SFW Series — Side Entry SMT ZIF, Lower Contact Type With Cable Lock Mechanism											
8	4	0.386 (9.80)	0.118 (3.00)	609-1885-1-ND	.54	.27	.22	609-1885-2-ND	2,000	164.92/M	SFW4R-3STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1891-1-ND	.75	.38	.31	609-1891-2-ND	2,000	234.00/M	SFW6R-3STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1895-1-ND	.93	.47	.40	609-1895-2-ND	2,000	309.00/M	SFW8R-3STE1LF
	14	0.780 (19.80)	0.512 (13.00)	609-1904-1-ND	1.09	.61	.51	609-1904-2-ND	2,000	396.00/M	SFW14R-3STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1909-1-ND	.69	.34	.29	609-1909-2-ND	2,000	216.04/M	SFW16R-3STE1LF
	22	1.094 (27.80)	0.827 (21.00)	609-1918-1-ND	1.34	.72	.62	609-1918-2-ND	2,000	496.63/M	SFW22R-3STE1LF
	26	1.252 (31.80)	0.984 (25.00)	609-1923-1-ND	1.09	.61	.51	609-1923-2-ND	2,000	396.58/M	SFW26R-3STE1LF
SFW Series — Side Entry SMT ZIF, Upper Contact Type With Cable Lock Mechanism											
8	4	0.386 (9.80)	0.118 (3.00)	609-1886-1-ND	.55	.27	.22	609-1886-2-ND	2,000	166.32/M	SFW4R-4STE1LF
	6	0.465 (11.80)	0.197 (5.00)	609-1892-1-ND	.77	.39	.32	609-1892-2-ND	2,000	243.75/M	SFW6R-4STE1LF
	8	0.543 (13.80)	0.276 (7.00)	609-1896-1-ND	.82	.41	.35	609-1896-2-ND	2,000	261.60/M	SFW8R-4STE1LF
	10	0.622 (15.80)	0.354 (9.00)	609-1899-1-ND	.86	.43	.37	609-1899-2-ND	2,000	279.45/M	SFW10R-4STE1LF
	16	0.858 (21.80)	0.591 (15.00)	609-1910-1-ND	.70	.35	.29	609-1910-2-ND	2,000	218.79/M	SFW16R-4STE1LF
	20	1.016 (25.80)	0.748 (19.00)	609-1915-1-ND	.80	.41	.33	609-1915-2-ND	2,000	251.10/M	SFW20R-4STE1LF

† Bulk

Micro-Miniature 1.25mm Connectors

1.25mm CONNECTORS: Physical Specifications: • Housing: PBTP, UL 94V-0 • Temperature: -40°C ~ 85°C • UL File No.: E29179 CSA File-No.: LR19980 **1.25mm CRIMP TERMINAL: Electrical Specifications:** • Voltage: 125V • Current: 1.0A (0.8A for 32AWG) • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 250VAC/1 minute • Insulation Resistance: 100MΩ minimum **Physical Specifications:** • Contact: Phosphor Bronze • Plating: Tin • Wire Range: 26 ~ 32 AWG • Insulation Range: 1.00mm diameter maximum • Strip Length: 1.40 ~ 1.90mm

Fig. 1 – 1.25mm Receptacle Housing

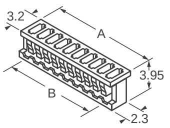

Fig. 2 – 1.25mm Straight Header

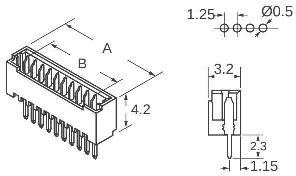

Fig. 3 – 1.25mm Right Angle Header

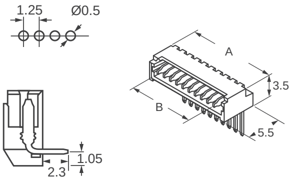

Fig. 4 – 1.25mm SMT Straight Header

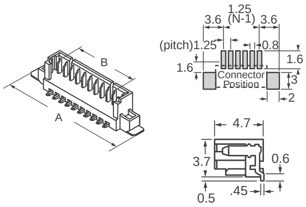

Fig. 5 – 1.25mm SMT Right Angle Header

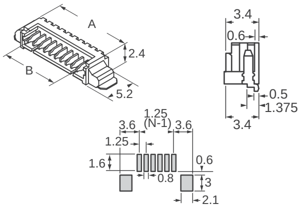

Fig. 6 – Crimp Terminal (Female)

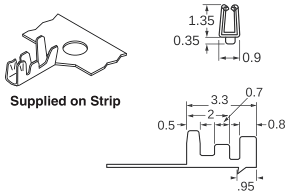

Fig.	Cir-cuits	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	500	Molex Part No.
Receptacle Housing									
1	2	4.25	1.25	WM1720-ND	.39	.33	.24	.19	51021-0200
	3	5.50	2.50	WM1721-ND	.44	.37	.27	.21	51021-0300
	4	6.75	3.75	WM1722-ND	.49	.44	.30	.24	51021-0400
	5	8.00	5.00	WM1723-ND	.55	.49	.33	.26	51021-0500
	6	9.25	6.25	WM1724-ND	.60	.50	.36	.29	51021-0600
	7	10.50	7.50	WM1725-ND	.65	.54	.39	.31	51021-0700
	8	11.75	8.75	WM1726-ND	.70	.62	.42	.33	51021-0800
	9	13.00	10.00	WM1727-ND	.75	.67	.45	.36	51021-0900
	10	14.25	11.25	WM1728-ND	.80	.66	.48	.38	51021-1000
	11	15.50	12.50	WM1729-ND	.85	.70	.50	.40	51021-1100
	12	16.75	13.75	WM1730-ND	.90	.74	.53	.43	51021-1200
	13	18.00	15.00	WM17000-ND	.95	.84	.56	.45	51021-1300
	14	19.25	16.25	WM17001-ND	1.00	.88	.59	.47	51021-1400
	15	20.50	17.50	WM17002-ND	1.04	.92	.62	.49	51021-1500
Straight Headers									
2	2	4.25	1.25	WM1731-ND	.49	.41	.29	.23	53047-0210
	3	5.50	2.50	WM1732-ND	.59	.53	.35	.28	53047-0310
	4	6.75	3.75	WM1733-ND	.70	.62	.42	.34	53047-0410
	5	8.00	5.00	WM1734-ND	.80	.67	.48	.38	53047-0510
	6	9.25	6.25	WM1735-ND	.92	.76	.55	.44	53047-0610
	7	10.50	7.50	WM1736-ND	1.12	.93	.66	.53	53047-0710
	8	11.75	8.75	WM1737-ND	1.15	.95	.68	.55	53047-0810
	9	13.00	10.00	WM1738-ND	1.26	1.11	.74	.60	53047-0910
	10	14.25	11.25	WM1739-ND	1.46	1.29	.86	.69	53047-1010
	11	15.50	12.50	WM1740-ND	1.41	1.25	.84	.67	53047-1110
	12	16.75	13.75	WM1741-ND	1.60	1.42	.95	.76	53047-1210
	13	18.00	15.00	WM17003-ND	1.71	1.51	1.01	.81	53047-1310
	14	19.25	16.25	WM17004-ND	1.83	1.62	1.08	.87	53047-1410
	15	20.50	17.50	WM17005-ND	1.94	1.71	1.15	.92	53047-1510
Right Angle Headers									
3	2	4.25	1.25	WM1742-ND	.56	.50	.33	.27	53048-0210
	3	5.50	2.50	WM1743-ND	.67	.60	.40	.32	53048-0310
	4	6.75	3.75	WM1744-ND	.78	.70	.47	.37	53048-0410
	5	8.00	5.00	WM1745-ND	.98	.81	.58	.46	53048-0510
	6	9.25	6.25	WM1746-ND	1.02	.90	.60	.48	53048-0610
	7	10.50	7.50	WM1747-ND	1.13	1.00	.67	.54	53048-0710
	8	11.75	8.75	WM1748-ND	1.24	1.10	.73	.59	53048-0810
	9	13.00	10.00	WM1749-ND	1.36	1.20	.80	.64	53048-0910
	10	14.25	11.25	WM1750-ND	1.47	1.30	.87	.70	53048-1010
	11	15.50	12.50	WM1751-ND	1.60	1.41	.94	.76	53048-1110
	12	16.75	13.75	WM1752-ND	1.79	1.58	1.06	.85	53048-1210
	13	18.00	15.00	WM17006-ND	1.71	1.51	1.01	.81	53048-1310
	14	19.25	16.25	WM17007-ND	2.02	1.79	1.19	.96	53048-1410
	15	20.50	17.50	WM17008-ND	1.95	1.72	1.15	.92	53048-1510

Fig.	Cir-cuits	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	500	Molex Part No.
SMT Straight Headers — RoHS Compliant									
4	2	7.65	1.25	WM7606CT-ND WM7606TR-ND	1.37	1.21 534.00/1,000	.81	.65	53398-0271
	3	8.90	2.50	WM7607CT-ND WM7607TR-ND	1.63	1.45 638.00/1,000	.97	.77	53398-0371
	4	10.15	3.75	WM7608CT-ND WM7608TR-ND	1.72	1.53 673.00/1,000	1.02	.82	53398-0471
	5	11.40	5.00	WM7609CT-ND WM7609TR-ND	1.91	1.69 747.00/1,000	1.13	.91	53398-0571
	6	12.65	6.25	WM7610CT-ND WM7610TR-ND	2.06	1.82 805.00/1,000	1.22	.98	53398-0671
	7	13.90	7.50	WM7611CT-ND WM7611TR-ND	2.23	1.97 871.00/1,000	1.32	1.05	53398-0771
	8	15.15	8.75	WM7612CT-ND WM7612TR-ND	2.37	2.09 924.00/1,000	1.40	1.12	53398-0871
	9	16.40	10.00	WM7613CT-ND WM7613TR-ND	2.56	2.26 1001.00/1,000	1.51	1.21	53398-0971
	10	17.65	11.25	WM7614CT-ND WM7614TR-ND	2.72	2.40 1061.00/1,000	1.60	1.28	53398-1071
	11	18.90	12.50	WM7615CT-ND WM7615TR-ND	2.89	2.55 1127.00/1,000	1.70	1.36	53398-1171
	12	20.15	13.75	WM7616CT-ND WM7616TR-ND	3.05	2.70 1193.00/1,000	1.80	1.44	53398-1271
	13	21.40	15.00	WM7617CT-ND WM7617TR-ND	3.27	2.89 1277.00/1,000	1.93	1.54	53398-1371
	14	22.65	16.25	WM7618CT-ND WM7618TR-ND	3.40	3.00 1328.00/1,000	2.00	1.60	53398-1471
	15	23.90	17.50	WM7619CT-ND WM7619TR-ND	3.48	3.08 1359.00/1,000	2.05	1.64	53398-1571
SMT Right Angle Headers — RoHS Compliant									
5	2	7.65	1.25	WM7620CT-ND WM7620TR-ND	1.43	1.27 560.00/1,000	.85	.68	53261-0271
	3	8.90	2.50	WM7621CT-ND WM7621TR-ND	1.64	1.45 642.00/1,000	.97	.78	53261-0371
	4	10.15	3.75	WM7622CT-ND WM7622TR-ND	1.80	1.59 702.00/1,000	1.06	.85	53261-0471
	5	11.40	5.00	WM7623CT-ND WM7623TR-ND	1.98	1.75 774.00/1,000	1.17	.94	53261-0571
	6	12.65	6.25	WM7624CT-ND WM7624TR-ND	2.13	1.88 832.00/1,000	1.26	1.01	53261-0671
	7	13.90	7.50	WM7625CT-ND WM7625TR-ND	2.29	2.03 895.00/1,000	1.35	1.08	53261-0771
	8	15.15	8.75	WM7626CT-ND WM7626TR-ND	2.43	2.15 950.00/1,000	1.44	1.15	53261-0871
	9	16.40	10.00	WM7627CT-ND WM7627TR-ND	2.63	2.32 1027.00/1,000	1.55	1.24	53261-0971
	10	17.65	11.25	WM7628CT-ND WM7628TR-ND	2.78	2.46 1087.00/1,000	1.64	1.32	53261-1071
	11	18.90	12.50	WM7629CT-ND WM7629TR-ND	2.95	2.61 1154.00/1,000	1.74	1.39	53261-1171
	12	20.15	13.75	WM7630CT-ND WM7630TR-ND	3.12	2.76 1219.00/1,000	1.84	1.47	53261-1271
	14	22.65	16.25	WM7631CT-ND WM7631TR-ND	3.47	3.06 1354.00/1,000	2.04	1.64	53261-1471
	15	23.90	17.50	WM7632CT-ND WM7632TR-ND	3.62	3.19 1412.00/1,000	2.13	1.71	53261-1571
6	Crimp Term., 28-32 AWG			WM1775-ND WM1775TR-ND	—	.07 575.00/25,000	.06	.05	50058-8000
	Crimp Term., 26-28 AWG			WM1142CT-ND WM1142TR-ND	—	.07 600.00/25,000	.05	.04	50079-8000
Tools (Molex)									
28-32AWG Prototype Crimp				WM9931-ND		214.65/1			63811-0200
26-28AWG Prototype Crimp				WM9978-ND		201.64/1			63811-0300
Production Crimp				WM9932-ND		528.37/1			63811-0000
Contact Extraction				WM9933-ND		140.15/1			57072-6000
Housing Extraction				WM9934-ND		145.01/1			11-03-0045

HIROSE ELECTRIC CO.,LTD.

DF30 Surface Mount Connectors - 0.4mm Pitch

Applications: • Cellular Phones • PDA's • Mobile Computers • Digital Cameras • Digital Video Cameras • Devices demanding high reliability connections in extremely limited spaces **Specifications:** • Operating Temperature Range: -35°C ~ 85°C • Voltage Rating: 30VAC • Current Rating: 0.3A **Electrical Characteristics:** • Contact Resistance: 100mΩ maximum • Insulation Resistance: 50MΩ minimum **Mechanical Characteristics:** • Mechanical Operation: 50 times insertions and extractions **Materials:** • Insulator: LCP, Black Finish, UL94V-0 • Contacts: Phosphor Bronze, Gold Plated Finish • Metal Fittings: • Phosphor Bronze, Tin-Copper plated Finish

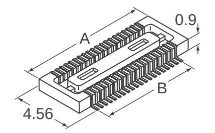

No. of Contacts	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	T&R Pricing 1,000*	Hirose Part No.
Receptacles								
20	6.22	3.6	H3859CT-ND	1.54	1.26	1.02	540.00	DF30FC-20DS-0.4V(82)
24	7.02	4.4	H3860CT-ND	1.61	1.32	1.06	563.00	DF30FC-24DS-0.4V(82)
30	8.22	5.6	H3861CT-ND	1.73	1.42	1.14	605.00	DF30FC-30DS-0.4V(82)
34	9.02	6.4	H3862CT-ND	1.83	1.50	1.21	641.00	DF30FC-34DS-0.4V(82)
40	10.22	7.6	H3855CT-ND	1.76	1.47	1.22	721.00	DF30FC-40DS-0.4V(82)
50	12.22	9.6	H3863CT-ND	2.09	1.74	1.45	857.00	DF30FC-50DS-0.4V(82)
60	14.22	11.6	H3857CT-ND	2.35	1.96	1.63	963.00	DF30FC-60DS-0.4V(82)
Headers								
20	5.14	3.6	H3864CT-ND	1.68	1.37	1.11	588.00	DF30FC-20DP-0.4V(82)
24	5.94	4.4	H3865CT-ND	1.76	1.44	1.16	617.00	DF30FC-24DP-0.4V(82)
30	7.14	5.6	H3866CT-ND	1.64	1.37	1.14	673.00	DF30FC-30DP-0.4V(82)
34	7.94	6.4	H3867CT-ND	1.73	1.44	1.20	709.00	DF30FC-34DP-0.4V(82)
40	9.14	7.6	H3856CT-ND	1.88	1.57	1.31	769.00	DF30FC-40DP-0.4V(82)
50	11.14	9.6	H3868CT-ND	2.25	1.88	1.56	922.00	DF30FC-50DP-0.4V(82)
60	13.14	11.6	H3858CT-ND	2.48	2.06	1.72	1015.00	DF30FC-60DP-0.4V(82)

*For Tape and Reel part number, change CT-ND to TR-ND.

DF12 Surface Mount Connectors - 0.5mm Pitch

Dimensions in mm

Features: • Connectors furnished with reinforcement fittings to prevent peeling of the solder joints (due to mechanical stress) are also available and these can be mounted to FPC with confidence • A specification with convenient guide posts for manual work is available as well as one without guide posts for automatic mounting

Specifications: • Current Capacity: 0.3A/pin • Rated Voltage: 50VAC/pin • Insulation Resistance: 100VDC, 500MΩ minimum • Withstand Voltage: 1 minute at rated value, 150VAC • Contact Resistance: 100mA DC, 50mΩ maximum

Material (receptacle/header): • Insulation: Heat-resistant resin, beige (natural), UL94V-0 • Contacts: Copper alloy with gold plating • Fittings: Copper alloy with solder plating

Fig. 1

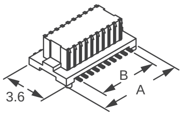

Fig. 2

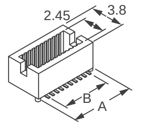

Fig. 3

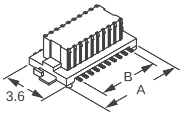

Fig. 4

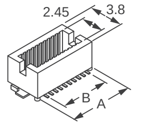

Fig.	No. of Con-tacts	Description	Dimension (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Hirose Part No.
Receptacles											
3.0mm Stacking Height											
1	32	With Guide Posts	10.1	7.5	H5202CT-ND† **NEW!**	1.89	1.45	1.16	H5202TR-ND† **NEW!**	771.00	DF12A(3.0)-32DS-0.5V(81)
	50		14.6	12.0	H2736-ND	2.11	1.63	1.30	—	—	DF12A(3.0)-50DS-0.5V(80)
	50		14.6	12.0	H5203CT-ND† **NEW!**	2.67	2.06	1.65	H5203TR-ND† **NEW!**	1093.00	DF12A(3.0)-50DS-0.5V(81)
	60		17.1	14.5	H5204CT-ND† **NEW!**	3.11	2.40	1.92	H5204TR-ND† **NEW!**	1273.00	DF12A(3.0)-60DS-0.5V(81)
3.0mm Stacking Height											
3	32	With Guide Posts and Reinforced Fittings	11.0	7.5	H1508-ND	1.75	1.27	1.04	—	—	DF12(3.0)-32DS-0.5V(80)
	32		11.0	7.5	H5205CT-ND† **NEW!**	1.44	1.05	.86	H5205TR-ND† **NEW!**	505.00	DF12(3.0)-32DS-0.5V(86)
	50		15.5	12.0	H1509-ND	2.11	1.63	1.30	—	—	DF12(3.0)-50DS-0.5V(80)
	50		15.5	12.0	H5206CT-ND† **NEW!**	1.83	1.41	1.13	H5206TR-ND† **NEW!**	750.00	DF12(3.0)-50DS-0.5V(86)
	60		18.0	14.5	H5207CT-ND† **NEW!**	2.02	1.56	1.25	H5207TR-ND† **NEW!**	827.00	DF12(3.0)-60DS-0.5V(86)
	80		23.0	19.5	H5208CT-ND† **NEW!**	2.85	2.20	1.76	H5208TR-ND† **NEW!**	1166.00	DF12(3.0)-80DS-0.5V(86)
3.5 to 5.0mm Stacking Height											
1	20	With Guide Posts	7.1	4.5	H5209CT-ND† **NEW!**	1.62	1.18	.97	H5209TR-ND† **NEW!**	568.00	DF12A-20DS-0.5V(81)
	30		9.6	7.0	H2741-ND	1.86	1.35	1.11	—	—	DF12A-30DS-0.5V(80)
	30		9.6	7.0	H5210CT-ND† **NEW!**	1.85	1.43	1.14	H5210TR-ND† **NEW!**	757.00	DF12A-30DS-0.5V(81)
	36		11.1	8.5	H5211CT-ND† **NEW!**	2.14	1.65	1.32	H5211TR-ND† **NEW!**	874.00	DF12A-36DS-0.5V(81)
	40		12.1	9.5	H2743-ND	1.95	1.50	1.20	—	—	DF12A-40DS-0.5V(80)
	40		12.1	9.5	H5212CT-ND† **NEW!**	2.17	1.67	1.34	H5212TR-ND† **NEW!**	888.00	DF12A-40DS-0.5V(81)
	50		14.6	12.0	H2744-ND	2.18	1.68	1.34	—	—	DF12A-50DS-0.5V(80)
	50		14.6	12.0	H5213CT-ND† **NEW!**	2.74	2.11	1.69	H5213TR-ND† **NEW!**	1123.00	DF12A-50DS-0.5V(81)
3	20	With Guide Posts and Reinforced Fittings	8.0	4.5	H2745-ND	1.60	1.16	.95	—	—	DF12-20DS-0.5V(80)
	20		8.0	4.5	H5214CT-ND† **NEW!**	1.01	.74	.60	H5214TR-ND† **NEW!**	354.00	DF12-20DS-0.5V(86)
	30		10.5	7.0	H2746-ND	1.66	1.28	1.02	—	—	DF12-30DS-0.5V(80)
	30		10.5	7.0	H5215CT-ND† **NEW!**	1.38	1.00	.82	H5215TR-ND† **NEW!**	481.00	DF12-30DS-0.5V(86)
	30		9.6	7.0	H5201CT-ND	1.89	1.46	1.17	H5201TR-ND	773.00	DF12-30DS-0.5V(81)
	36		12.0	8.5	H2747-ND	1.85	1.43	1.14	—	—	DF12-36DS-0.5V(80)
	36		12.0	8.5	H5216CT-ND† **NEW!**	1.76	1.28	1.05	H5216TR-ND† **NEW!**	617.00	DF12-36DS-0.5V(86)
	40		13.0	9.5	H2748-ND	1.95	1.50	1.20	—	—	DF12-40DS-0.5V(80)
	40		13.0	9.5	H5217CT-ND† **NEW!**	1.63	1.18	.97	H5217TR-ND† **NEW!**	569.00	DF12-40DS-0.5V(86)
	50		15.5	12.0	H5218CT-ND† **NEW!**	1.83	1.41	1.13	H5218TR-ND† **NEW!**	750.00	DF12-50DS-0.5V(86)
	60		18.0	14.5	H5001CT-ND	2.03	1.57	1.26	H5001TR-ND	833.00	DF12-60DS-0.5V(86)
Headers											
3.0mm Stacking Height											
2	32	With Guide Posts	10.2	7.5	H5219CT-ND† **NEW!**	1.94	1.49	1.20	H5219TR-ND† **NEW!**	793.00	DF12D(3.0)-32DP-0.5V(81)
	50		14.7	12.0	H5220CT-ND† **NEW!**	2.75	2.12	1.70	H5220TR-ND† **NEW!**	1125.00	DF12D(3.0)-50DP-0.5V(81)
	60		17.2	14.5	H5221CT-ND† **NEW!**	3.20	2.47	1.98	H5221TR-ND† **NEW!**	1311.00	DF12D(3.0)-60DP-0.5V(81)
4	32	With Guide Posts and Reinforced Fittings	11.0	7.5	H2753-ND	1.82	1.32	1.08	—	—	DF12(3.0)-32DP-0.5V(80)
	32		11.0	7.5	H5222CT-ND† **NEW!**	1.28	.93	.76	H5222TR-ND† **NEW!**	448.00	DF12(3.0)-32DP-0.5V(86)
	50		15.5	12.0	H5223CT-ND† **NEW!**	1.83	1.41	1.13	H5223TR-ND† **NEW!**	747.00	DF12(3.0)-50DP-0.5V(86)
	60		18.0	14.5	H5224CT-ND† **NEW!**	1.95	1.50	1.20	H5224TR-ND† **NEW!**	798.00	DF12(3.0)-60DP-0.5V(86)
	80		23.0	19.5	H5225CT-ND† **NEW!**	2.82	2.17	1.74	H5225TR-ND† **NEW!**	1153.00	DF12(3.0)-80DP-0.5V(86)
3.5mm Stacking Height											
2	20	With Guide Posts	7.2	4.5	H5226CT-ND† **NEW!**	1.49	1.08	.89	H5226TR-ND† **NEW!**	521.00	DF12D(3.5)-20DP-0.5V(81)
	36		11.2	8.5	H5227CT-ND† **NEW!**	2.11	1.63	1.30	H5227TR-ND† **NEW!**	865.00	DF12D(3.5)-36DP-0.5V(81)
	40		12.2	9.5	H5228CT-ND† **NEW!**	2.17	1.67	1.34	H5228TR-ND† **NEW!**	887.00	DF12D(3.5)-40DP-0.5V(81)
	50		14.7	12.0	H2759-ND	2.11	1.63	1.30	—	—	DF12D(3.5)-50DP-0.5V(80)
	50		14.7	12.0	H5229CT-ND† **NEW!**	2.72	2.10	1.68	H5229TR-ND† **NEW!**	1113.00	DF12D(3.5)-50DP-0.5V(81)
4	20	With Guide Posts and Reinforced Fittings	8.0	4.5	H5230CT-ND† **NEW!**	1.10	.80	.66	H5230TR-ND† **NEW!**	386.00	DF12(3.5)-20DP-0.5V(86)
	36		12.0	8.5	H2761-ND	1.76	1.35	1.08	—	—	DF12(3.5)-36DP-0.5V(80)
	36		12.0	8.5	H5231CT-ND† **NEW!**	1.83	1.33	1.09	H5231TR-ND† **NEW!**	641.00	DF12(3.5)-36DP-0.5V(86)
	40		13.0	9.5	H5232CT-ND† **NEW!**	1.73	1.25	1.03	H5232TR-ND† **NEW!**	604.00	DF12(3.5)-40DP-0.5V(86)
	50		15.5	12.0	H2763-ND	2.18	1.68	1.34	—	—	DF12(3.5)-50DP-0.5V(80)
	50		15.5	12.0	H5233CT-ND† **NEW!**	1.91	1.48	1.18	H5233TR-ND† **NEW!**	783.00	DF12(3.5)-50DP-0.5V(86)
4.0mm Stacking Height											
2	30	With Guide Posts and Reinforced Fittings	9.7	7.0	H2764-ND	1.82	1.32	1.08	—	—	DF12D(4.0)-30DP-0.5V(80)
	30		9.7	7.0	H5234CT-ND† **NEW!**	1.83	1.41	1.13	H5234TR-ND† **NEW!**	750.00	DF12D(4.0)-30DP-0.5V(81)
	36		11.2	8.5	H5235CT-ND† **NEW!**	2.11	1.63	1.30	H5235TR-ND† **NEW!**	865.00	DF12D(4.0)-36DP-0.5V(81)
	40		12.2	9.5	H5236CT-ND† **NEW!**	2.17	1.67	1.34	H5236TR-ND† **NEW!**	887.00	DF12D(4.0)-40DP-0.5V(81)
	50		14.7	12.0	H2767-ND	2.11	1.63	1.30	—	—	DF12D(4.0)-50DP-0.5V(80)
	50		14.7	12.0	H5237CT-ND† **NEW!**	2.72	2.10	1.68	H5237TR-ND† **NEW!**	1113.00	DF12D(4.0)-50DP-0.5V(81)
4	30	With Guide Posts and Reinforced Fittings	10.5	7.0	H5238CT-ND† **NEW!**	1.83	1.41	1.13	H5238TR-ND† **NEW!**	747.00	DF12(4.0)-30DP-0.5V(86)
	36		12.0	8.5	H5239CT-ND† **NEW!**	1.85	1.42	1.14	H5239TR-ND† **NEW!**	755.00	DF12(4.0)-36DP-0.5V(86)
	40		13.0	9.5	H5240CT-ND† **NEW!**	1.94	1.49	1.20	H5240TR-ND† **NEW!**	793.00	DF12(4.0)-40DP-0.5V(86)
	50		15.5	12.0	H5241CT-ND† **NEW!**	2.22	1.71	1.37	H5241TR-ND† **NEW!**	907.00	DF12(4.0)-50DP-0.5V(86)
	60		18.0	14.5	H5002CT-ND	2.63	2.02	1.62	H5002TR-ND	1075.00	DF12(4.0)-60DP-0.5V(86)
5.0mm Stacking Height											
2	20	With Guide Posts	7.2	4.5	H5242CT-ND† **NEW!**	1.70	1.24	1.01	H5242TR-ND† **NEW!**	596.00	DF12D(5.0)-20DP-0.5V(81)
	50		14.7	12.0	H5243CT-ND† **NEW!**	2.83	2.18	1.75	H5243TR-ND† **NEW!**	1160.00	DF12D(5.0)-50DP-0.5V(81)
4	20	With Guide Posts and Reinforced Fittings	8.0	4.5	H5244CT-ND† **NEW!**	1.07	.78	.64	H5244TR-ND† **NEW!**	375.00	DF12(5.0)-20DP-0.5V(86)
	50		15.5	12.0	H5245CT-ND† **NEW!**	2.04	1.57	1.26	H5245TR-ND† **NEW!**	834.00	DF12(5.0)-50DP-0.5V(86)
	60		17.2	14.5	H5006CT-ND	2.25	1.73	1.39	H5006TR-ND	919.00	DF12(5.0)-60DP-0.5V(86)

† RoHS Compliant

HRS HIROSE ELECTRIC CO.,LTD.

DF17 Surface Mount Connectors - 0.5mm Pitch

Features: • Developed for portable electronic and mobile telecommunications equipment • Designed specifically for mobile electronic devices, these connectors withstand the shock and resist breakage and disconnection that can occur when subjected to drop impact.

Applications: Suited to a wide variety of mobile applications such as LCD-related equipment, miniature portable remote terminals, as well as portable telephones.

Specifications: • Rated Current: 0.3A • Rated Voltage: AC50 • Temperature Range: -35°C ~ 85°C • Storage Temperature: -10°C ~ 60°C • Humidity Range: 40% ~ 80% • Storage Humidity: 40% ~ 70% • Insulation Resistance: 500MΩ or more • Contact Resistance: 50mΩ or less • Vibration Resistance: No instantaneous electric disconnection of 1µS or more • Humidity Resistance: 50mΩ or less for Contact, 250MΩ or more for Insulation • Temperature Cycle: 50mΩ or less for Contact Resistance, 500MΩ or more for Insulation Resistance • Duration Against Plugging/Unplugging: Contact resistance 50mΩ or less • Heat Resistance of Soldering: No fusion of resin section affecting performance

Material (receptacle/header): • Insulator: Nylon resin, white, UL94V-0 • Contacts: Phosphor bronze, gold plating • Metal Fittings: Copper Alloy, solder plating

Fig. 1

Shown with reinforced fittings

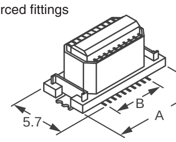

Fig. 2

Shown with reinforced fittings

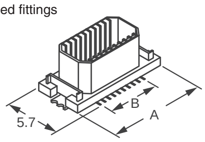

Fig.	No. of Con-tacts	Description	Dim. (mm)		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Hirose Part No.
			A	B		1	25	100			
Receptacles											
3.0mm Stacking Height											
1	20	With Guide Posts & Without Reinforced Fittings	8.2	4.5	H2354CT-ND	1.79	1.30	1.06	H2354TR-ND	626.00	DF17A(3.0)-20DS-0.5V(51)
	30		10.7	7.0	H2355CT-ND	1.89	1.46	1.17	H2355TR-ND	773.00	DF17A(3.0)-30DS-0.5V(51)
	40		13.2	9.5	H2356CT-ND	2.24	1.73	1.38	H2356TR-ND	918.00	DF17A(3.0)-40DS-0.5V(51)
	50		15.7	12.0	H2357CT-ND	2.60	2.01	1.61	H2357TR-ND	1065.00	DF17A(3.0)-50DS-0.5V(51)
	60		18.2	14.5	H2358CT-ND	2.96	2.28	1.82	H2358TR-ND	1210.00	DF17A(3.0)-60DS-0.5V(51)
	70		20.7	17.0	H2359CT-ND	2.99	2.32	1.86	H2357TR-ND	1339.00	DF17A(3.0)-70DS-0.5V(51)
	80		23.2	19.5	H2360CT-ND	3.31	2.57	2.06	H2360TR-ND	1482.00	DF17A(3.0)-80DS-0.5V(51)
4.0mm Stacking Height											
1	20	With Guide Posts & Without Reinforced Fittings	8.2	4.5	H2361CT-ND	1.73	1.26	1.03	H2361TR-ND	606.00	DF17A(4.0)-20DS-0.5V(51)
	30		10.7	7.0	H2362CT-ND	1.80	1.39	1.11	H2362TR-ND	738.00	DF17A(4.0)-30DS-0.5V(51)
	40		13.2	9.5	H2363CT-ND	2.13	1.64	1.31	H2363TR-ND	871.00	DF17A(4.0)-40DS-0.5V(51)
	50		15.7	12.0	H2364CT-ND	2.46	1.90	1.52	H2364TR-ND	1007.00	DF17A(4.0)-50DS-0.5V(51)
	60		18.2	14.5	H2365CT-ND	2.78	2.14	1.72	H2365TR-ND	1138.00	DF17A(4.0)-60DS-0.5V(51)
	70		20.7	17.0	H2303CT-ND	3.13	2.41	1.93	H2303TR-ND	1281.00	DF17A(4.0)-70DS-0.5V(51)
	80		23.2	19.5	H2366CT-ND	3.10	2.41	1.93	H2366TR-ND	1391.00	DF17A(4.0)-80DS-0.5V(51)
3.0mm Stacking Height											
1	20	With Guide Posts & With Reinforced Fittings	10.0	4.5	H2367CT-ND	1.84	1.34	1.09	H2367TR-ND	644.00	DF17(3.0)-20DS-0.5V(51)
	30		12.5	7.0	H2368CT-ND	1.93	1.49	1.19	H2368TR-ND	790.00	DF17(3.0)-30DS-0.5V(51)
	40		15.0	9.5	H2369CT-ND	2.28	1.76	1.41	H2369TR-ND	935.00	DF17(3.0)-40DS-0.5V(51)
	50		17.5	12.0	H2370CT-ND	2.65	2.04	1.63	H2370TR-ND	1083.00	DF17(3.0)-50DS-0.5V(51)
	60		20.0	14.5	H2371CT-ND	3.00	2.31	1.85	H2371TR-ND	1229.00	DF17(3.0)-60DS-0.5V(51)
	70		22.5	17.0	H2372CT-ND	3.02	2.34	1.88	H2372TR-ND	1352.00	DF17(3.0)-70DS-0.5V(51)
	80		25.0	19.5	H2373CT-ND	3.34	2.59	2.07	H2373TR-ND	1495.00	DF17(3.0)-80DS-0.5V(51)
4.0mm Stacking Height											
1	20	With Guide Posts & With Reinforced Fittings	10.0	4.5	H2374CT-ND	1.78	1.29	1.06	H2374TR-ND	624.00	DF17(4.0)-20DS-0.5V(51)
	30		12.5	7.0	H2375CT-ND	1.85	1.43	1.14	H2375TR-ND	757.00	DF17(4.0)-30DS-0.5V(51)
	40		15.0	9.5	H2376CT-ND	2.17	1.67	1.34	H2376TR-ND	888.00	DF17(4.0)-40DS-0.5V(51)
	50		17.5	12.0	H2377CT-ND	2.50	1.93	1.54	H2377TR-ND	1024.00	DF17(4.0)-50DS-0.5V(51)
	60		20.0	14.5	H2378CT-ND	2.83	2.18	1.74	H2378TR-ND	1157.00	DF17(4.0)-60DS-0.5V(51)
	70		22.5	17.0	H2962CT-ND	3.18	2.45	1.96	H2962TR-ND	1299.00	DF17(4.0)-70DS-0.5V(51)
	80		25.0	19.5	H2379CT-ND	3.13	2.43	1.95	H2379TR-ND	1404.00	DF17(4.0)-80DS-0.5V(51)
Headers											
2.0mm Stacking Height											
2	20	With Guide Posts & Without Reinforced Fittings	8.2	4.5	H2380CT-ND	1.64	1.26	1.01	H2380TR-ND	670.00	DF17A(2.0)-20DP-0.5V(51)
	30		10.7	7.0	H2381CT-ND	2.02	1.55	1.24	H2381TR-ND	825.00	DF17A(2.0)-30DP-0.5V(51)
	40		13.2	9.5	H2382CT-ND	2.40	1.85	1.48	H2382TR-ND	980.00	DF17A(2.0)-40DP-0.5V(51)
	50		15.7	12.0	H2383CT-ND	2.78	2.14	1.71	H2383TR-ND	1136.00	DF17A(2.0)-50DP-0.5V(51)
	60		18.2	14.5	H2384CT-ND	3.16	2.43	1.95	H2384TR-ND	1293.00	DF17A(2.0)-60DP-0.5V(51)
	70		20.7	17.0	H2385CT-ND	3.16	2.46	1.97	H2385TR-ND	1417.00	DF17A(2.0)-70DP-0.5V(51)
	80		23.2	19.5	H2386CT-ND	3.51	2.73	2.18	H2386TR-ND	1573.00	DF17A(2.0)-80DP-0.5V(51)
4.0mm Stacking Height											
2	20	With Guide Posts & Without Reinforced Fittings	8.2	4.5	H2387CT-ND	1.69	1.30	1.04	H2387TR-ND	690.00	DF17A(4.0)-20DP-0.5V(51)
	30		10.7	7.0	H2388CT-ND	2.08	1.61	1.29	H2388TR-ND	853.00	DF17A(4.0)-30DP-0.5V(51)
	40		13.2	9.5	H2389CT-ND	2.48	1.91	1.53	H2389TR-ND	1015.00	DF17A(4.0)-40DP-0.5V(51)
	50		15.7	12.0	H2390CT-ND	2.89	2.22	1.78	H2390TR-ND	1181.00	DF17A(4.0)-50DP-0.5V(51)
	60		18.2	14.5	H2391CT-ND	2.93	2.28	1.82	H2391TR-ND	1313.00	DF17A(4.0)-60DP-0.5V(51)
	70		20.7	17.0	H2392CT-ND	3.34	2.59	2.07	H2392TR-ND	1495.00	DF17A(4.0)-70DP-0.5V(51)
	80		23.2	19.5	H2393CT-ND	3.68	2.86	2.29	H2393TR-ND	1651.00	DF17A(4.0)-80DP-0.5V(51)
2.0mm Stacking Height											
2	20	With Guide Posts & With Reinforced Fittings	10.0	4.5	H2394CT-ND	1.68	1.30	1.04	H2394TR-ND	688.00	DF17(2.0)-20DP-0.5V(51)
	30		12.5	7.0	H2395CT-ND	2.06	1.59	1.27	H2395TR-ND	842.00	DF17(2.0)-30DP-0.5V(51)
	40		15.0	9.5	H2396CT-ND	2.44	1.88	1.50	H2396TR-ND	998.00	DF17(2.0)-40DP-0.5V(51)
	50		17.5	12.0	H2397CT-ND	2.82	2.17	1.74	H2397TR-ND	1154.00	DF17(2.0)-50DP-0.5V(51)
	60		20.0	14.5	H2398CT-ND	3.20	2.47	1.97	H2398TR-ND	1310.00	DF17(2.0)-60DP-0.5V(51)
	70		22.5	17.0	H2399CT-ND	3.22	2.50	2.00	H2399TR-ND	1443.00	DF17(2.0)-70DP-0.5V(51)
	80		25.0	19.5	H2400CT-ND	3.57	2.77	2.22	H2400TR-ND	1599.00	DF17(2.0)-80DP-0.5V(51)
4.0mm Stacking Height											
2	20	With Guide Posts & With Reinforced Fittings	10.0	4.5	H2401CT-ND	1.73	1.33	1.07	H2401TR-ND	708.00	DF17(4.0)-20DP-0.5V(51)
	30		12.5	7.0	H2402CT-ND	2.13	1.64	1.31	H2402TR-ND	870.00	DF17(4.0)-30DP-0.5V(51)
	40		15.0	9.5	H2403CT-ND	2.52	1.94	1.56	H2403TR-ND	1032.00	DF17(4.0)-40DP-0.5V(51)
	50		17.5	12.0	H2404CT-ND	2.91	2.24	1.80	H2404TR-ND	1192.00	DF17(4.0)-50DP-0.5V(51)
	60		20.0	14.5	H2405CT-ND	2.96	2.30	1.84	H2405TR-ND	1326.00	DF17(4.0)-60DP-0.5V(51)
	70		22.5	17.0	H2406CT-ND	3.36	2.61	2.09	H2406TR-ND	1508.00	DF17(4.0)-70DP-0.5V(51)
	80		25.0	19.5	H2407CT-ND	3.71	2.88	2.31	H2407TR-ND	1664.00	DF17(4.0)-80DP-0.5V(51)

HIROSE ELECTRIC CO.,LTD. FX10A Series - Surface Mount

0.5mm Conn. with Ground Plate for Board-to-Board Connectors

Features: Transmission characteristics have been improved through a design that fixes ground plates to both sides of the header and receptacle.

Signal and ground are arranged in a ratio of 10:1 with the ground plate SMT connected to the board. The ground stability achieved serves to reduce noise. Suited to high-density applications. The single contact pitch of 0.5mm produces a smaller connector utilizing less board area for mounting. Board-to-Board dimensions of 4mm and 5mm are available.

Materials: • Insulator: LCP resin, Beige, UL94V-0 • Contacts: Phosphor bronze • Header Engagement Area: Gold plating of 0.1µm • Termination Area: Solder plating • Receptacle Engagement Area: Gold plating of 0.1m • Termination Area: Flash plating Ground plate: Phosphor bronze, solder plating • Reinforced fitting: Phosphor bronze, Tin plating

Electrical: • Rated current: 0.3A • Operating temperature range: -55 ~ 85°C • Rated voltage: 50VAC • Operating humidity range: Relative humidity 95% or less (No condensation)

Note: The thickness of the solder paste is not included in the stack height.

Fig. 1

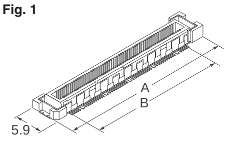

Fig. 2

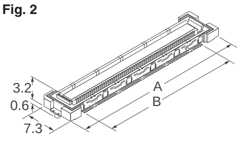

Fig.	Mounting Height	No. of Contacts		Dimension (mm)		Digi-Key Part No.	Price Each			Hirose Part No.	Digi-Key Part No.	T&R Pricing	Hirose Part No.
		Signal	Ground	A	B		1	25	100			1,000	
Headers													
With Guideposts													
1	4mm	80	8	31.1	23.5	H2476-ND	5.31	4.12	3.30	FX10A- 80P/8-SV	H2476TR-ND	2184.00	FX10A- 80P/8-SV(21)
		100	10	37.1	29.5	H2477-ND	6.50	5.04	4.04	FX10A-100P/10-SV	H2477TR-ND	2431.00	FX10A-100P/10-SV(21)
		120	12	43.1	35.5	H2478-ND	6.44	5.00	4.00	FX10A-120P/12-SV	H2478TR-ND	2652.00	FX10A-120P/12-SV(21)
		140	14	49.1	41.5	H2479-ND	7.05	5.47	4.38	FX10A-140P/14-SV	H2479TR-ND	2899.00	FX10A-140P/14-SV(21)
	5mm	80	8	31.1	23.5	H2484-ND	5.31	4.12	3.30	FX10A- 80P/8-SV1	H2484TR-ND	2184.00	FX10A- 80P/8-SV1(21)
		100	10	37.1	29.5	H2485-ND	5.89	4.57	3.66	FX10A-100P/10-SV1	H2485TR-ND	2431.00	FX10A-100P/10-SV1(21)
		120	12	43.1	35.5	H2486-ND	6.44	5.00	4.00	FX10A-120P/12-SV1	H2486TR-ND	2652.00	FX10A-120P/12-SV1(21)
		140	14	49.1	41.5	H2487-ND	7.05	5.47	4.38	FX10A-140P/14-SV1	H2487TR-ND	2899.00	FX10A-140P/14-SV1(21)
Without Guideposts													
1	4mm	80	8	31.1	23.5	H2480-ND	5.31	4.12	3.30	FX10B- 80P/8-SV	H2480TR-ND	2184.00	FX10B- 80P/8-SV(21)
		100	10	37.1	29.5	H2481-ND	5.89	4.57	3.66	FX10B-100P/10-SV	H2481TR-ND	2431.00	FX10B-100P/10-SV(21)
		120	12	43.1	35.5	H2482-ND	6.44	5.00	4.00	FX10B-120P/12-SV	H2482TR-ND	2652.00	FX10B-120P/12-SV(21)
		140	14	49.1	41.5	H2483-ND	7.05	5.47	4.38	FX10B-140P/14-SV	H2483TR-ND	2899.00	FX10B-140P/14-SV(21)
	5mm	80	8	31.1	23.5	H2488-ND	5.31	4.12	3.30	FX10B- 80P/8-SV1	H2488TR-ND	2184.00	FX10B- 80P/8-SV1(21)
		100	10	37.1	29.5	H2489-ND	5.89	4.57	3.66	FX10B-100P/10-SV1	H2489TR-ND	2431.00	FX10B-100P/10-SV1(21)
		120	12	43.1	35.5	H2490-ND	6.44	5.00	4.00	FX10B-120P/12-SV1	—	—	—
		140	14	49.1	41.5	H2491-ND	7.05	5.47	4.38	FX10B-140P/14-SV1	H2491TR-ND	2899.00	FX10B-140P/14-SV1(21)
Receptacles													
With Guideposts													
2	—	80	8	31.1	23.5	H2468-ND	5.34	4.14	3.32	FX10A-80S/8-SV	H2468TR-ND	2210.00	FX10A-80S/8-SV(21)
		100	10	37.1	29.5	H2469-ND	5.97	4.64	3.71	FX10A-100S/10-SV	H2469TR-ND	2457.00	FX10A-100S/10-SV(21)
		120	12	43.1	35.5	H2470-ND	6.70	5.20	4.16	FX10A-120S/12-SV	H2470TR-ND	2743.00	FX10A-120S/12-SV(21)
		140	14	49.1	41.5	H2471-ND	6.60	5.34	4.20	FX10A-140S/14-SV	H2471TR-ND	3042.00	FX10A-140S/14-SV(21)
Without Guideposts													
2	—	80	8	31.1	23.5	H2472-ND	5.34	4.14	3.32	FX10B- 80S/8-SV	H2472TR-ND	2210.00	FX10B- 80S/8-SV(21)
		100	10	37.1	29.5	H2473-ND	5.97	4.64	3.71	FX10B-100S/10-SV	H2473TR-ND	2457.00	FX10B-100S/10-SV(21)
		120	12	43.1	35.5	H2474-ND	6.70	5.20	4.16	FX10B-120S/12-SV	H2474TR-ND	2743.00	FX10B-120S/12-SV(21)
		140	14	49.1	41.5	H2475-ND	6.60	5.34	4.20	FX10B-140S/14-SV	H2475TR-ND	3042.00	FX10B-140S/14-SV(21)

HIROSE ELECTRIC CO.,LTD. FX11L Series -Surface Mount

0.5mm Conn. with Ground Plate for 2mm Board-to-Board Connections

Features: Low Profile Design. The board-to-board mating height of 2mm suits smaller, thinner case designs. Improved transmission efficiency between boards. Transmission characteristics have been improved through a design that fixes ground plates to both sides of the header and receptacle. Signal and ground are arranged in a ratio of 10:1 with the ground plate SMT connected to the board. The ground stability achieved serves to reduce noise. Suited to High-Density Applications. The signal contact pitch of 0.5mm produces a smaller connector utilizing less board area for mounting.

Applications: Notebook computers, PDA, and other miniature electronic equipment.

Material: • Insulator: LCP resin, Beige, UL94V-0 • Contacts: Copper alloy • Header: Phosphor bronze • Receptacle: Engagement area: Gold plating of 0.1 µm Termination Area: Flash plating Ground plate: Phosphor bronze solder plating • Reinforced fitting/plate: Phosphor bronze, Tin plating

Electrical: • Rated current: 0.3 A • Operating temperature range: -55 ~ 80°C • Rated voltage: 50VAC • Operating humidity range: Relative humidity 95% or less (No condensation)

Fig.1

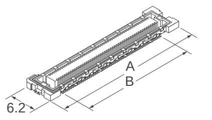

Fig. 2

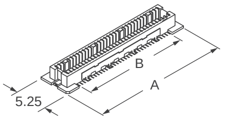

Fig.	No. of Contacts		Dim. (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
	Signal	Ground	A	B		1	25	100	
Headers									
With Ground Plate and Guideposts									
2	60	6	22.6	17.5	H2517-ND	4.38	3.40	2.72	FX11LA-60P/6-SV
	80	8	28.6	23.5	H2518-ND	4.84	3.76	3.01	FX11LA-80P/8-SV
	100	10	34.6	29.5	H2519-ND	5.31	4.12	3.30	FX11LA-100P/10-SV
	120	12	40.6	35.5	H2520-ND	5.80	4.50	3.60	FX11LA-120P/12-SV
With Ground Plate, without Guideposts									
2	60	6	22.6	17.5	H2521-ND	4.38	3.40	2.72	FX11LB-60P/6-SV
	80	8	28.6	23.5	H2522-ND	4.84	3.76	3.01	FX11LB-80P/8-SV
	100	10	34.6	29.5	H2523-ND	5.31	4.12	3.30	FX11LB-100P/10-SV
	120	12	40.6	35.5	H2524-ND	5.80	4.50	3.60	FX11LB-120P/12-SV
Without Ground Plate, With Guideposts									
2	68	–	22.6	16.5	H2533-ND	3.45	2.68	2.15	FX11LA-68P-SV
	92	–	28.6	22.5	H2534-ND	3.89	3.02	2.42	FX11LA-92P-SV
	116	–	34.6	28.5	H2535-ND	4.26	3.31	2.65	FX11LA-116P-SV
	140	–	40.6	34.5	H2536-ND	4.67	3.63	2.90	FX11LA-140P-SV
Without Ground Plate and Guideposts									
2	68	–	22.6	16.5	H2537-ND	3.45	2.68	2.15	FX11LB-68P-SV
	92	–	28.6	22.5	H2538-ND	3.89	3.02	2.42	FX11LB-92P-SV
	116	–	34.6	28.5	H2539-ND	4.26	3.31	2.65	FX11LB-116P-SV
	140	–	40.6	34.5	H2540-ND	4.67	3.63	2.90	FX11LB-140P-SV

Fig.	No. of Contacts		Dim. (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
	Signal	Ground	A	B		1	25	100	
Receptacles									
With Ground Plate and Guideposts									
1	60	6	25	17.5	H2525-ND	4.55	3.54	2.83	FX11LA-60S/6-SV
	80	8	31	23.5	H2526-ND	5.05	3.92	3.14	FX11LA-80S/8-SV
	100	10	37	29.5	H2527-ND	5.57	4.32	3.46	FX11LA-100S/10-SV
	120	12	43	35.5	H2528-ND	6.06	4.71	3.77	FX11LA-120S/12-SV
With Ground Plate, Without Guideposts									
1	60	6	25	17.5	H2529-ND	4.55	3.54	2.83	FX11LB-60S/6-SV
	80	8	31	23.5	H2530-ND	5.05	3.92	3.14	FX11LB-80S/8-SV
	100	10	37	29.5	H2531-ND	5.57	4.32	3.46	FX11LB-100S/10-SV
	120	12	43	35.5	H2532-ND	6.06	4.71	3.77	FX11LB-120S/12-SV
Without Ground Plate, With Guideposts									
1	68	–	25	16.5	H2541-ND	4.12	3.20	2.56	FX11LA-68S-SV
	92	–	31	22.5	H2542-ND	4.58	3.56	2.85	FX11LA-92S-SV
	116	–	37	28.5	H2543-ND	5.10	3.96	3.17	FX11LA-116S-SV
	140	–	43	34.5	H2544-ND	5.60	4.35	3.48	FX11LA-140S-SV
Without Ground Plate and Guideposts									
1	68	–	25	16.5	H2545-ND	4.12	3.20	2.56	FX11LB-68S-SV
	92	–	31	22.5	H2546-ND	4.58	3.56	2.85	FX11LB-92S-SV
	116	–	37	28.5	H2547-ND	5.10	3.96	3.17	FX11LB-116S-SV
	140	–	43	34.5	H2548-ND	5.60	4.35	3.48	FX11LB-140S-SV

HIROSE ELECTRIC CO.,LTD.

FX8 Series Connectors

0.6mm Pitch - Single Row (SMT)

The FX8 Series of 0.6mm pitch board mounting SMT connectors can be used with 3mm or greater distance between the boards. They are designed with the objectives of miniaturization, space-saving, and multiple contacts for internal mounting.

Features:

• 3mm stacking height • The engagement portion is designed to prevent erroneous insertion and a bellows structure that is not susceptible to twisting has been used in the contacts • The SMT soldering lead portion protrudes about 0.7mm beyond the outer surface of the housing, enabling image processing for automatic mounting and affording excellent repair qualities • Connectors are equipped with board positioning bosses which prevent incorrect insertion to the board by means of boss position and boss diameter.

Electrical:

• Current Capacity: 0.4A per pin • Rated Voltage: 100VAC • Insulation Resistance: 100MΩ or greater at 250VDC • Withstand Voltage: 300VAC r.m.s. for one minute at specified value • Contact Resistance: 45mΩ or less at 100mA DC

Material and Finish:

• Insulation: PPS resin, light brown, UL94V-0 • Header Contacts: Phosphor bronze, gold-plated contacts, solder-plated leads • Receptacle Contacts: Phosphor bronze, gold-plated contacts and leads

Fig. 1

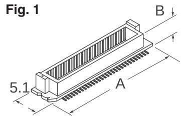

Fig. 2

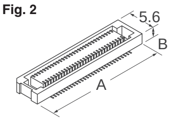

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Vertical Pin Headers								
1	40	18.60	2.45	H1201-ND	2.31	1.78	1.42	FX8-40P-SV(21)
	60	24.60	2.45	H1202-ND	2.73	2.10	1.68	FX8-60P-SV(21)
			3.45	H1208-ND	2.73	2.10	1.68	FX8-60P-SV1(21)
			4.45	H1221-ND	3.83	2.97	2.38	FX8C-60P-SV(21)
			5.45	H1226-ND	3.83	2.97	2.38	FX8C-60P-SV1(21)
			6.45	H1227-ND	3.83	2.97	2.38	FX8C-60P-SV2(21)
			8.45	H1228-ND	3.83	2.97	2.38	FX8C-60P-SV4(21)
			10.45	H1229-ND	3.83	2.97	2.38	FX8C-60P-SV6(21)
	80	30.60	2.45	H1203-ND	3.15	2.43	1.94	FX8-80P-SV(21)
			4.45	H1222-ND	4.35	3.38	2.70	FX8C-80P-SV(21)
			5.45	H1230-ND	4.35	3.38	2.70	FX8C-80P-SV1(21)
			6.45	H1231-ND	4.35	3.38	2.70	FX8C-80P-SV2(21)
			8.45	H1232-ND	4.35	3.38	2.70	FX8C-80P-SV4(21)
			10.45	H1233-ND	4.35	3.38	2.70	FX8C-80P-SV6(21)
	90	33.60	2.45	H1204-ND	3.05	2.37	1.89	FX8-90P-SV(21)
			3.45	H1210-ND	3.05	2.37	1.89	FX8-90P-SV1(21)
1	100	36.60	2.45	H1205-ND	3.25	2.52	2.02	FX8-100P-SV(21)
			3.45	H1211-ND	3.25	2.52	2.02	FX8-100P-SV1(21)
			4.45	H1223-ND	4.87	3.78	3.03	FX8C-100P-SV(21)
			5.45	H1234-ND	4.87	3.78	3.03	FX8C-100P-SV1(21)
			8.45	H1236-ND	4.87	3.78	3.03	FX8C-100P-SV4(21)
			10.45	H1237-ND	4.87	3.78	3.03	FX8C-100P-SV6(21)
	120	42.60	2.45	H1206-ND	3.63	2.82	2.25	FX8-120P-SV(21)
			3.45	H1212-ND	3.63	2.82	2.25	FX8-120P-SV1(21)
			4.45	H1224-ND	5.39	4.19	3.35	FX8C-120P-SV(21)
			5.45	H1238-ND	5.39	4.19	3.35	FX8C-120P-SV1(21)
			6.45	H1239-ND	5.39	4.19	3.35	FX8C-120P-SV2(21)
			8.45	H1240-ND	5.39	4.19	3.35	FX8C-120P-SV4(21)
			10.45	H1241-ND	5.39	4.19	3.35	FX8C-120P-SV6(21)
	140	48.60	2.45	H1207-ND	4.03	3.13	2.51	FX8-140P-SV(21)
			3.45	H1213-ND	4.03	3.13	2.51	FX8-140P-SV1(21)
			4.45	H1225-ND	5.95	4.62	3.69	FX8C-140P-SV(21)
			5.45	H1242-ND	5.95	4.62	3.69	FX8C-140P-SV1(21)
			6.45	H1243-ND	5.95	4.62	3.69	FX8C-140P-SV2(21)
			8.45	H1244-ND	5.95	4.62	3.69	FX8C-140P-SV4(21)
			10.45	H1245-ND	5.95	4.62	3.69	FX8C-140P-SV6(21)
Receptacles								
2	40	18.60	2.25	H1214-ND	2.93	2.25	1.80	FX8-40S-SV(21)
	60	24.60	2.25	H1215-ND	3.19	2.48	1.98	FX8-60S-SV(21)
			3.95	H1246-ND	3.92	3.04	2.43	FX8C-60S-SV(21)
			8.95	H1251-ND	4.12	3.20	2.56	FX8C-60S-SV5(21)
	80	30.60	2.25	H1216-ND	3.80	2.95	2.36	FX8-80S-SV(21)
			3.95	H1247-ND	4.47	3.47	2.78	FX8C-80S-SV(21)
			8.95	H1252-ND	4.81	3.74	2.99	FX8C-80S-SV5(21)
	90	33.60	2.25	H1217-ND	4.12	3.20	2.56	FX8-90S-SV(21)
	100	36.60	2.25	H1218-ND	4.41	3.42	2.74	FX8-100S-SV(21)
			3.95	H1248-ND	5.02	3.90	3.12	FX8C-100S-SV(21)
			8.95	H1253-ND	5.42	4.21	3.37	FX8C-100S-SV5(21)
	120	42.60	2.25	H1219-ND	5.02	3.90	3.12	FX8-120S-SV(21)
			3.95	H1249-ND	5.57	4.32	3.46	FX8C-120S-SV(21)
			8.95	H1254-ND	6.06	4.71	3.77	FX8C-120S-SV5(21)
	140	48.60	2.25	H1220-ND	5.66	4.39	3.51	FX8-140S-SV(21)
			3.95	H1250-ND	6.15	4.77	3.82	FX8C-140S-SV(21)
			8.95	H1255-ND	6.73	5.22	4.18	FX8C-140S-SV5(21)

DF15 Series - SMT Connectors

0.65mm Pitch - Board to Board

Features: • This series considers the service efficiency to set the pitch to 0.65mm, corresponding to the 0.5mm pitch DF12 series. This connector widely covers the definition of the mounting space or the board to board size together with the DF12 series. • The product is prepared to prevent solder peeling, considering the mounting on FPC *Note:* The stacking height is determined by adding the header and receptacle to the figures followed by the product name DF15#. The stacking height doesn't include the soldering paste thickness.

Applications:

• Mobile phones • LCD (Liquid Crystal Display) • MO (Optical Disk) • Note PC

Specifications:

• Current Rating: 0.3A • Voltage Rating: 50VAC • Operating Temperature: -35°C ~ 85°C • Operating Humidity: 40% ~ 80% • Insulation Resistance: 100VDC, 500MΩ min. • Withstanding Voltage: 1 minute at rated value, 150VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA DC, 50mΩ maximum

Material (receptacle/header):

• Insulator: Polyamide, beige, UL94V-0 • Contacts: Phosphor copper with gold plating • Metal Fittings: Brass with solder plating

Fig. 1

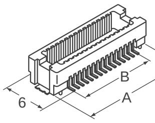

Fig. 2

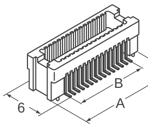

Fig. 3

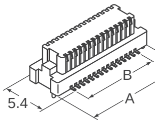

Fig.	Mtg. Height	No. of Pins	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Headers									
With Metal Fitting and Boss									
1	3.2 mm	30	13.1	9.1	H1733-ND	1.85	1.43	1.14	DF15(3.2)-30DP-0.65V(50)
		40	16.35	12.35	H1734-ND	2.28	1.75	1.40	DF15(3.2)-40DP-0.65V(50)
		50	19.6	15.6	H1735-ND	2.70	2.08	1.66	DF15(3.2)-50DP-0.65V(50)
2	4.2 mm	20	9.85	5.85	H1736-ND	1.71	1.24	1.02	DF15(4.2)-20DP-0.65V(50)
		40	16.35	12.35	H1738-ND	2.28	1.75	1.40	DF15(4.2)-40DP-0.65V(50)
		50	19.6	15.6	H1739-ND	2.70	2.08	1.66	DF15(4.2)-50DP-0.65V(50)
	6.2 mm	20	9.85	5.85	H1740-ND	1.71	1.24	1.02	DF15(6.2)-20DP-0.65V(50)
		30	13.1	9.1	H1741-ND	1.85	1.43	1.14	DF15(6.2)-30DP-0.65V(50)
		40	16.35	12.35	H1742-ND	2.28	1.75	1.40	DF15(6.2)-40DP-0.65V(50)
		50	19.6	15.6	H1743-ND	2.70	2.08	1.66	DF15(6.2)-50DP-0.65V(50)
With Metal Fitting and Without Boss									
1	3.2 mm	20	9.85	5.85	H1756-ND	1.71	1.24	1.02	DF15B(3.2)-20DP-0.65V(50)
		30	13.1	9.1	H1757-ND	1.85	1.43	1.14	DF15B(3.2)-30DP-0.65V(50)
		40	16.35	12.35	H1758-ND	2.28	1.75	1.40	DF15B(3.2)-40DP-0.65V(50)
		50	19.6	15.6	H1759-ND	2.70	2.08	1.66	DF15B(3.2)-50DP-0.65V(50)
2	4.2 mm	20	9.85	5.85	H1760-ND	1.71	1.24	1.02	DF15B(4.2)-20DP-0.65V(50)
		30	13.1	9.1	H1761-ND	1.85	1.43	1.14	DF15B(4.2)-30DP-0.65V(50)
		40	16.35	12.35	H1762-ND	2.28	1.75	1.40	DF15B(4.2)-40DP-0.65V(50)
	6.2 mm	20	9.85	5.85	H1764-ND	1.71	1.24	1.02	DF15B(6.2)-20DP-0.65V(50)
		30	13.1	9.1	H1765-ND	1.85	1.43	1.14	DF15B(6.2)-30DP-0.65V(50)
		40	16.35	12.35	H1766-ND	2.28	1.75	1.40	DF15B(6.2)-40DP-0.65V(50)
		50	19.6	15.6	H1767-ND	2.70	2.08	1.66	DF15B(6.2)-50DP-0.65V(50)
Without Metal Fitting and With Boss									
1	3.2 mm	20	9.85	5.85	H1744-ND	1.67	1.21	.99	DF15A(3.2)-20DP-0.65V(50)
		30	13.1	9.1	H1745-ND	1.79	1.38	1.10	DF15A(3.2)-30DP-0.65V(50)
		40	16.35	12.35	H1746-ND	2.28	1.75	1.40	DF15A(3.2)-40DP-0.65V(50)
		50	19.6	15.6	H1747-ND	2.63	2.03	1.62	DF15A(3.2)-50DP-0.65V(50)
2	4.2 mm	20	9.85	5.85	H1748-ND	1.67	1.21	.99	DF15A(4.2)-20DP-0.65V(50)
		30	13.1	9.1	H1749-ND	1.79	1.38	1.10	DF15A(4.2)-30DP-0.65V(50)
		40	16.35	12.35	H1750-ND	2.28	1.75	1.40	DF15A(4.2)-40DP-0.65V(50)
		50	19.6	15.6	H1751-ND	2.63	2.03	1.62	DF15A(4.2)-50DP-0.65V(50)
	6.2 mm	20	9.85	5.85	H1752-ND	1.67	1.21	.99	DF15A(6.2)-20DP-0.65V(50)
		30	13.1	9.1	H1753-ND	1.79	1.38	1.10	DF15A(6.2)-30DP-0.65V(50)
		40	16.35	12.35	H1754-ND	2.28	1.75	1.40	DF15A(6.2)-40DP-0.65V(50)
		50	19.6	15.6	H1755-ND	2.63	2.03	1.62	DF15A(6.2)-50DP-0.65V(50)
Without Metal Fitting and Without Boss									
1	3.2 mm	20	9.85	5.85	H1768-ND	1.67	1.21	.99	DF15C(3.2)-20DP-0.65V(50)
		30	13.1	9.1	H1769-ND	1.79	1.38	1.10	DF15C(3.2)-30DP-0.65V(50)
		40	16.35	12.35	H1770-ND	2.28	1.75	1.40	DF15C(3.2)-40DP-0.65V(50)
		50	19.6	15.6	H1771-ND	2.63	2.03	1.62	DF15C(3.2)-50DP-0.65V(50)
2	4.2 mm	20	9.85	5.85	H1772-ND	1.67	1.21	.99	DF15C(4.2)-20DP-0.65V(50)
		30	13.1	9.1	H1773-ND	1.79	1.38	1.10	DF15C(4.2)-30DP-0.65V(50)
		40	16.35	12.35	H1774-ND	2.28	1.75	1.40	DF15C(4.2)-40DP-0.65V(50)
		50	19.6	15.6	H1775-ND	2.63	2.03	1.62	DF15C(4.2)-50DP-0.65V(50)
	6.2 mm	20	9.85	5.85	H1776-ND	1.67	1.21	.99	DF15C(6.2)-20DP-0.65V(50)
		30	13.1	9.1	H1777-ND	1.79	1.38	1.10	DF15C(6.2)-30DP-0.65V(50)
		40	16.35	12.35	H1778-ND	2.28	1.75	1.40	DF15C(6.2)-40DP-0.65V(50)
		50	19.6	15.6	H1779-ND	2.63	2.03	1.62	DF15C(6.2)-50DP-0.65V(50)
Receptacles									
With Metal Fitting and Boss									
3	0.8 mm	20	9.85	5.85	H1700-ND	1.71	1.24	1.02	DF15(0.8)-20DS-0.65V(50)
		30	13.1	9.1	H1701-ND	1.89	1.45	1.16	DF15(0.8)-30DS-0.65V(50)
		40	16.35	12.35	H1702-ND	2.41	1.85	1.48	DF15(0.8)-40DS-0.65V(50)
		50	19.6	15.6	H1703-ND	2.83	2.18	1.74	DF15(0.8)-50DS-0.65V(50)
	1.8 mm	20	9.85	5.85	H1704-ND	1.71	1.24	1.02	DF15(1.8)-20DS-0.65V(50)
		30	13.1	9.1	H1705-ND	1.89	1.45	1.16	DF15(1.8)-30DS-0.65V(50)
		40	16.35	12.35	H1706-ND	2.41	1.85	1.48	DF15(1.8)-40DS-0.65V(50)
		50	19.6	15.6	H1707-ND	2.83	2.18	1.74	DF15(1.8)-50DS-0.65V(50)
With Metal Fitting and Without Boss									
3	0.8 mm	20	9.85	5.85	H1716-ND	1.75	1.27	1.04	DF15B(0.8)-20DS-0.65V(50)
		30	13.1	9.1	H1717-ND	1.98	1.53	1.22	DF15B(0.8)-30DS-0.65V(50)
		40	16.35	12.35	H1718-ND	2.50	1.93	1.54	DF15B(0.8)-40DS-0.65V(50)
	1.8 mm	20	9.85	5.85	H1720-ND	1.75	1.27	1.04	DF15B(1.8)-20DS-0.65V(50)
		30	13.1	9.1	H1721-ND	1.98	1.53	1.22	DF15B(1.8)-30DS-0.65V(50)
		40	16.35	12.35	H1722-ND	2.50	1.93	1.54	DF15B(1.8)-40DS-0.65V(50)
		50	19.6	15.6	H1723-ND	2.83	2.18	1.74	DF15B(1.8)-50DS-0.65V(50)
Without Metal Fitting and Boss									
3	0.8 mm	20	9.85	5.85	H1708-ND	1.67	1.21	.99	DF15A(0.8)-20DS-0.65V(50)
		30	13.1	9.1	H1709-ND	1.85	1.43	1.14	DF15A(0.8)-30DS-0.65V(50)
		40	16.35	12.35	H1710-ND	2.37	1.83	1.46	DF15A(0.8)-40DS-0.65V(50)
		50	19.6	15.6	H1711-ND	2.80	2.15	1.72	DF15A(0.8)-50DS-0.65V(50)
	1.8 mm	20	9.85	5.85	H1712-ND	1.67	1.21	.99	DF15A(1.8)-20DS-0.65V(50)
		30	13.1	9.1	H1713-ND	1.85	1.43	1.14	DF15A(1.8)-30DS-0.65V(50)
		40	16.35	12.35	H1714-ND	2.37	1.83	1.46	DF15A(1.8)-40DS-0.65V(50)
		50	19.6	15.6	H1715-ND	2.80	2.15	1.72	DF15A(1.8)-50DS-0.65V(50)
Without Metal Fitting and Without Boss									
3	0.8 mm	20	9.85	5.85	H1724-ND	1.67	1.21	.99	DF15C(0.8)-20DS-0.65V(50)
		30	13.1	9.1	H1725-ND	1.85	1.43	1.14	DF15C(0.8)-30DS-0.65V(50)
		40	16.35	12.35	H1726-ND	2.37	1.83	1.46	DF15C(0.8)-40DS-0.65V(50)
		50	19.6	15.6	H1727-ND	2.80	2.15	1.72	DF15C(0.8)-50DS-0.65V(50)
	1.8 mm	20	9.85	5.85	H1728-ND	1.67	1.21	.99	DF15C(1.8)-20DS-0.65V(50)
		30	13.1	9.1	H1729-ND	1.85	1.43	1.14	DF15C(1.8)-30DS-0.65V(50)
		40	16.35	12.35	H1730-ND	2.37	1.83	1.46	DF15C(1.8)-40DS-0.65V(50)
		50	19.6	15.6	H1731-ND	2.80	2.15	1.72	DF15C(1.8)-50DS-0.65V(50)

HIROSE ELECTRIC CO.,LTD.

FX6 Series - Surface Mount Vertical Connectors 0.8mm Pitch

Features: This small-sized, lightweight type has approximately one quarter the weight and one half the mounting volume compared to half-pitch connectors (1.27mm Pitch) available until now. Stacking height can be set from 5 ~ 9mm in 1mm steps. Though these are low profile type connectors, the effective length of engagement is long at 1.7mm, which affords a fit with leeway. **Applications:** Notebook computers, personal terminals and other office automation equipment. Equipment that calls for miniaturization and lighter weight. **Material:** • Insulator: PPS resin, light brown, UL94V-0 • Header/Receptacle pins: Phosphor bronze • Contacts: Gold plating • Leads: Tin plating **Electrical:** • Current Capacity: 0.5A • Rated Voltage: 100VAC • Insulation Resistance: 250VDC, 1,000MΩ or more • Withstand voltage for 1 minute at specified value 300VAC • Contact Resistance: 100mA DC 40mΩ or less

Fig. 1

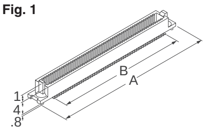

Fig. 2

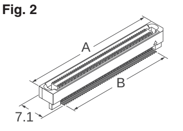

Fig.	Height (mm)	No. of Pins	Dimension (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
			A	B		1	25	100	
Headers									
With Positioning Boss									
1	4	20	15.8	7.2	H2408-ND	2.02	1.55	1.24	FX6-20P-0.8SV
		40	23.8	15.2	H2409-ND	2.89	2.23	1.78	FX6-40P-0.8SV
		50	27.8	19.2	H2410-ND	2.99	2.32	1.86	FX6-50P-0.8SV
		60	31.8	23.2	H2411-ND	3.36	2.61	2.09	FX6-60P-0.8SV
		80	39.8	31.2	H2412-ND	4.12	3.20	2.56	FX6-80P-0.8SV
		100	47.8	39.2	H2413-ND	4.90	3.81	3.05	FX6-100P-0.8SV
	5	60	31.8	23.2	H2417-ND	4.15	3.22	2.58	FX6-60P-0.8SV1
	6	100	47.8	39.2	H2425-ND	5.80	4.50	3.60	FX6-100P-0.8SV2
Without Positioning Boss									
1	4	20	15.8	7.2	H2438-ND	2.02	1.55	1.24	FX6A-20P-0.8SV
		40	23.8	15.2	H2439-ND	2.89	2.23	1.78	FX6A-40P-0.8SV
		50	27.8	19.2	H2440-ND	2.99	2.32	1.86	FX6A-50P-0.8SV
		60	31.8	23.2	H2441-ND	3.36	2.61	2.09	FX6A-60P-0.8SV
		80	39.8	31.2	H2442-ND	4.12	3.20	2.56	FX6A-80P-0.8SV
		100	47.8	39.2	H2443-ND	4.90	3.81	3.05	FX6A-100P-0.8SV
	5	20	15.8	7.2	H2444-ND	2.73	2.10	1.68	FX6A-20P-0.8SV1
		40	23.8	15.2	H2445-ND	3.34	2.59	2.07	FX6A-40P-0.8SV1
		60	31.8	23.2	H2447-ND	4.15	3.22	2.58	FX6A-60P-0.8SV1
	6	50	27.8	19.2	H2452-ND	3.74	2.91	2.33	FX6A-50P-0.8SV2
		60	31.8	23.2	H2453-ND	4.15	3.22	2.58	FX6A-60P-0.8SV2

Fig.	Height (mm)	No. of Pins	Dimension (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
			A	B		1	25	100	
Receptacle									
With Positioning Boss									
2	4	20	15.8	7.2	H2426-ND	2.18	1.68	1.34	FX6-20S-0.8SV
		40	23.8	15.2	H2427-ND	3.15	2.43	1.94	FX6-40S-0.8SV
		50	27.8	19.2	H2428-ND	2.93	2.25	1.80	FX6-50S-0.8SV
		60	31.8	23.2	H2429-ND	3.65	2.84	2.27	FX6-60S-0.8SV
		80	39.8	31.2	H2430-ND	4.52	3.51	2.81	FX6-80S-0.8SV
		100	47.8	39.2	H2431-ND	5.37	4.17	3.33	FX6-100S-0.8SV
	6	20	15.8	7.2	H2432-ND	3.07	2.39	1.91	FX6-20S-0.8SV2
		40	23.8	15.2	H2433-ND	3.68	2.86	2.29	FX6-40S-0.8SV2
		50	27.8	19.2	H2434-ND	4.44	3.45	2.76	FX6-50S-0.8SV2
		60	31.8	23.2	H2435-ND	4.90	3.81	3.05	FX6-60S-0.8SV2
		80	39.8	31.2	H2436-ND	5.80	4.50	3.60	FX6-80S-0.8SV2
		100	47.8	39.2	H2437-ND	6.73	5.22	4.18	FX6-100S-0.8SV2
Without Positioning Boss									
2	4	20	15.8	7.2	H2456-ND	2.18	1.68	1.34	FX6A-20S-0.8SV
		40	23.8	15.2	H2457-ND	3.15	2.43	1.94	FX6A-40S-0.8SV
		50	27.8	19.2	H2458-ND	3.25	2.52	2.02	FX6A-50S-0.8SV
		60	31.8	23.2	H2459-ND	3.65	2.84	2.27	FX6A-60S-0.8SV
		80	39.8	31.2	H2460-ND	4.52	3.51	2.81	FX6A-80S-0.8SV
		100	47.8	39.2	H2461-ND	5.37	4.17	3.33	FX6A-100S-0.8SV
	6	40	23.8	15.2	H2463-ND	3.97	3.09	2.47	FX6A-40S-0.8SV2
		50	27.8	19.2	H2464-ND	4.44	3.45	2.76	FX6A-50S-0.8SV2
		60	31.8	23.2	H2465-ND	4.90	3.81	3.05	FX6A-60S-0.8SV2
		80	39.8	31.2	H2466-ND	5.80	4.50	3.60	FX6A-80S-0.8SV2
		100	47.8	39.2	H2467-ND	6.73	5.22	4.18	FX6A-100S-0.8SV2

DF9 Series - Surface Mount Connectors 1mm Pitch, Center Line Board-to-Board (With Reinforced Hardware)

Features: • 4.3mm mated height between PCBs • Insulator is manufactured from polyimide to withstand the high temperatures resulting from VPS, IR, and heat blow soldering • PCB contact is a "Gull-Wing" type design to ensure reliable performance • Designed to control and accept dimensional changes by thermo-elasticity • Reinforcement hardware is provided to eliminate mechanical stress to solder joints during mating and unmating cycles **Electrical:** • Rated Current: 0.5A • Rated Voltage: AC150V • Insulation Resistance: Condition: DC100V, Standard Value: Minimum 500MΩ • Withstanding Voltage: Condition: At standard value, Standard Value: 50m or less • Contact Resistance: Condition: At 0.1 ADC, Standard Value: 50m or less • Operating Temperature Range: -45°C ~ 125°C **Material and Finish:** • Receptacle Header Insulator: Polyimide resin, beige (natural), UL94V-0 • Receptacle and Header Contacts: Phosphor copper, tin, or gold plating • Receptacle and Header Fitting: Brass, tin plating.

Fig. 1

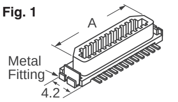

Fig. 2

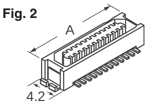

Fig.	No. of Pins	Dimension (mm) A	Digi-Key Part No.	Pricing			Hirose Part No.*
				1	25	100	
Receptacle							
Receptacle with Fitting; with Guideposts							
1	9	8.30	H2152-ND	1.14	20.63	67.50	DF9-9S-1V(20)
	11	9.30	H2153-ND	1.22	22.00	72.00	DF9-11S-1V(20)
	13	10.30	H2154-ND	1.25	22.69	74.25	DF9-13S-1V(20)
	15	11.30	H2155-ND	1.44	26.13	85.50	DF9-15S-1V(20)
	17	12.30	H2156-ND	1.56	28.19	92.25	DF9-17S-1V(20)
	19	13.30	H2157-ND	1.60	28.88	94.50	DF9-19S-1V(20)
	21	14.30	H2158-ND	1.71	30.94	101.25	DF9-21S-1V(20)
	23	15.30	H2159-ND	1.75	31.63	103.50	DF9-23S-1V(20)
	25	16.30	H2160-ND	1.86	33.69	110.25	DF9-25S-1V(20)
	31	19.30	H2161-ND	1.79	34.38	110.00	DF9-31S-1V(20)
	41	24.30	H2162-ND	2.11	40.63	130.00	DF9-41S-1V(20)
	51	29.30	H2163-ND	3.12	60.00	192.00	DF9-51S-1V(54)
Receptacle without Metal Fitting; with Guideposts							
1	9	8.30	H1637-ND	1.06	19.25	63.00	DF9A-9S-1V(20)
	11	9.30	H1638-ND	1.06	19.25	63.00	DF9A-11S-1V(20)
	13	10.30	H1639-ND	1.14	20.63	67.50	DF9A-13S-1V(20)
	15	11.30	H1640-ND	1.25	22.69	74.25	DF9A-15S-1V(20)
	17	12.30	H1641-ND	1.37	24.75	81.00	DF9A-17S-1V(20)
	19	13.30	H1642-ND	1.44	26.13	85.50	DF9A-19S-1V(20)
	21	14.3	H1643-ND	1.48	26.81	87.75	DF9A-21S-1V(20)
	23	15.30	H1644-ND	1.60	28.88	94.50	DF9A-23S-1V(20)
	25	16.30	H1645-ND	1.67	30.25	99.00	DF9A-25S-1V(20)
	31	19.30	H1646-ND	1.66	31.88	102.00	DF9A-31S-1V(20)
	51	29.30	H1648-ND	3.06	58.75	188.00	DF9A-51S-1V(54)
Receptacle with Fitting; without Guideposts							
1	11	9.30	H1656-ND	1.14	20.63	67.50	DF9B-11S-1V(20)
	13	10.30	H1657-ND	1.25	22.69	74.25	DF9B-13S-1V(20)
	15	11.30	H1658-ND	1.44	26.13	85.50	DF9B-15S-1V(20)
	21	14.30	H1659-ND	1.71	30.94	101.25	DF9B-21S-1V(20)
	23	15.30	H1660-ND	1.71	30.94	101.25	DF9B-23S-1V(20)
	25	16.30	H1661-ND	1.86	33.69	110.25	DF9B-25S-1V(20)
	31	19.30	H2176-ND	1.79	34.38	110.00	DF9B-31S-1V(20)
	41	24.30	H2177-ND	2.11	40.63	130.00	DF9B-41S-1V(20)
	51	29.30	H1662-ND	3.12	60.00	192.00	DF9B-51S-1V(54)

Fig.	No.of Pins	Dimension (mm) A	Digi-Key Part No.	Pricing			Hirose Part No.*
				1	25	100	
Headers							
Header with Fitting; with Guideposts							
2	9	8.30	H2258-ND	1.10	19.94	65.25	DF9-9P-1V(20)
	11	9.30	H2165-ND	1.22	22.00	72.00	DF9-11P-1V(20)
	13	10.30	H2166-ND	1.25	22.69	74.25	DF9-13P-1V(20)
	15	11.30	H2167-ND	1.44	26.13	85.50	DF9-15P-1V(20)
	17	12.30	H2168-ND	1.48	26.81	87.75	DF9-17P-1V(20)
	19	13.30	H2169-ND	1.56	28.19	92.25	DF9-19P-1V(20)
	21	14.30	H2170-ND	1.67	30.25	99.00	DF9-21P-1V(20)
	23	15.30	H2171-ND	1.71	30.94	101.25	DF9-23P-1V(20)
	25	16.30	H2172-ND	1.82	33.00	108.00	DF9-25P-1V(20)
	31	19.30	H2173-ND	1.76	33.75	108.00	DF9-31P-1V(20)
	41	24.30	H2174-ND	2.08	40.00	128.00	DF9-41P-1V(20)
	51	29.30	H2175-ND	3.07	59.63	190.80	DF9-51P-1V(54)
Header without Fitting; with Guideposts							
2	9	8.30	H1625-ND	.99	17.88	58.50	DF9A-9P-1V(20)
	11	9.30	H1626-ND	1.06	19.25	63.00	DF9A-11P-1V(20)
	13	10.30	H1627-ND	1.10	19.94	65.25	DF9A-13P-1V(20)
	15	11.30	H1628-ND	1.25	22.69	74.25	DF9A-15P-1V(20)
	17	12.30	H1629-ND	1.33	24.06	78.75	DF9A-17P-1V(20)
	19	13.30	H1630-ND	1.37	24.75	81.00	DF9A-19P-1V(20)
	21	14.30	H1631-ND	1.48	26.81	87.75	DF9A-21P-1V(20)
	23	15.30	H1632-ND	1.56	28.19	92.25	DF9A-23P-1V(20)
	25	16.30	H1633-ND	1.67	30.25	99.00	DF9A-25P-1V(20)
	31	19.30	H1634-ND	1.86	33.69	110.25	DF9A-31P-1V(20)
	41	24.30	H1635-ND	1.89	36.25	116.00	DF9A-41P-1V(20)
	51	29.30	H1636-ND	3.05	59.06	189.00	DF9A-51P-1V(54)
Header with Fitting; without Guideposts							
2	11	9.30	H1649-ND	1.14	20.63	67.50	DF9B-11P-1V(20)
	13	10.30	H1650-ND	1.22	22.00	72.00	DF9B-13P-1V(20)
	15	11.30	H1651-ND	1.44	26.13	85.50	DF9B-15P-1V(20)
	21	14.30	H1652-ND	1.67	30.25	99.00	DF9B-21P-1V(20)
	25	16.30	H1653-ND	1.82	33.00	108.00	DF9B-25P-1V(20)
	31	19.30	H1654-ND	1.76	33.75	108.00	DF9B-31P-1V(20)
	41	24.30	H1655-ND	2.08	40.00	128.00	DF9B-41P-1V(20)

* (20) indicates tin plating; (54) indicates gold plating.

Parlex CORPORATION

DF9 Flex Assemblies (Standard Interface Connector Complying with VESA FPDI-1)

Features: These comply with the Standard Connector Specifications selected by the U.S. Video Electronics Standards Association as a Flat Panel Display Interface.

Applications: Liquid Crystal Displays, Portable Terminals and Personal Computers

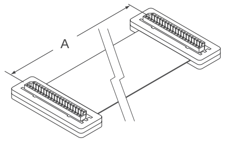

No. of Positions	Height (mm)	Dimension (mm) A	Digi-Key Part No.	Price Each			Parlex Part No.
				1	10	100	
31	5.08	51	PS563AB0051S-ND	45.00	30.00	18.75	PS563-AF-0051-S
		102	PS563AB0102S-ND	45.00	30.00	18.75	PS563-AF-0102-S
		152	PS563AB0152S-ND	45.00	30.00	18.75	PS563-AF-0152-S
		203	PS563AB0203S-ND	45.00	30.00	18.75	PS563-AF-0203-S
		254	PS563AB0254S-ND	45.00	30.00	18.75	PS563-AF-0254-S
		305	PS563AB0305S-ND	45.00	30.00	18.75	PS563-AF-0305-S
41	5.08	51	PS564AB0051S-ND	45.00	30.00	18.75	PS564-AF-0051-S
		102	PS564AB0102S-ND	45.00	30.00	18.75	PS564-AF-0102-S
		152	PS564AB0152S-ND	45.00	30.00	18.75	PS564-AF-0152-S
		203	PS564AB0203S-ND	45.00	30.00	18.75	PS564-AF-0203-S
		254	PS564AB0254S-ND	45.00	30.00	18.75	PS564-AF-0254-S
		305	PS564AB0305S-ND	45.00	30.00	18.75	PS564-AF-0305-S

HIROSE ELECTRIC CO.,LTD.

FX2 Series - Connectors 1.27mm Pitch

FX2 Series is a 1.27mm mil spacing, 2 piece connector for use in board-to-board application • High performance PPS resin insulator is compatible to VPS, IR and hot air reflow • Gull wing-shaped lead is used for ease of checking soldered connection • Use of positioning boss for substrate packaging offers improved handling capability • Solder-fixing reinforcement bracket, which disperses inserting/extracting stress, is available for optional specification.
Electrical: • Rated Current: 0.5A • Rated Voltage: 125VAC • Insulation Resistance: More than 100MΩ at 250VDC • Withstanding Voltage: 300VAC • Contact Resistance: Less than 45mΩ at 100mA DC • Durability: 500 times mating cycles.
Insulator Material and Finish: • Dip Type: Black polyimide resin, UL94V-0 • SMT Type: Light Brown PPS resin, UL94V-0 • Socket: Black PBT resin and polyimide resin, UL94V-0.
Contact Material and Finish: • Receptacle and Socket: Phosphor bronze with selective gold plating • Header: Phosphor bronze or brass with selective gold plating.

Fig. 1

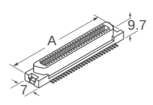

Fig. 2

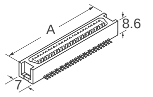

Fig. 3

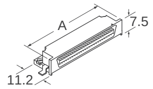

Fig. 4

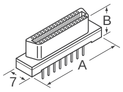

Fig. 5

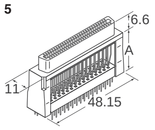

Fig. 6

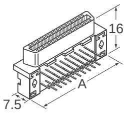

Fig. 7

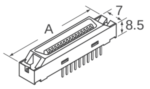

Fig. 8

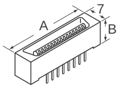

Fig. 9

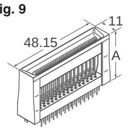

Fig. 10

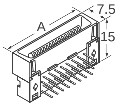

Fig. 11

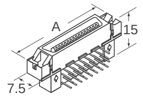

Fig. 12

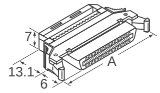

Fig. 13

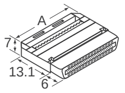

Fig.	No. of Pins	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Straight Type Receptacle (SMT)								
1	20	22.75	—	H2248-ND	3.80	73.69	235.80	FX2-20S-1.27SV
	32	30.37	—	H4322-ND	4.41	85.50	273.60	FX2-32S-1.27SV
	40	35.45	—	H2249-ND	4.84	93.94	300.60	FX2-40S-1.27SV
	52	43.07	—	H2250-ND	5.48	106.31	340.20	FX2-52S-1.27SV
	60	48.15	—	H2251-ND	5.89	114.19	365.40	FX2-60S-1.27SV
	68	53.23	—	H4323-ND	6.32	122.63	392.40	FX2-68S-1.27SV
	80	60.85	—	H2252-ND	6.73	130.50	417.60	FX2-80S-1.27SV
	100	73.55	—	H4324-ND	6.79	137.03	430.65	FX2-100S-1.27SV
	120	86.25	—	H4325-ND	7.75	156.45	491.70	FX2-120S-1.27SV
Straight Header (SMT)								
2	20	22.75	—	H2253-ND	3.80	73.69	235.80	FX2-20P-1.27SV
	32	30.37	—	H4318-ND	4.41	85.50	273.60	FX2-32P-1.27SV
	40	35.45	—	H2254-ND	4.84	93.94	300.60	FX2-40P-1.27SV
	52	43.07	—	H2255-ND	5.48	106.31	340.20	FX2-52P-1.27SV
	60	48.15	—	H2256-ND	5.89	114.19	365.40	FX2-60P-1.27SV
	68	53.23	—	H4319-ND	6.32	122.63	392.40	FX2-68P-1.27SV
	80	60.85	—	H2257-ND	6.96	135.00	432.00	FX2-80P-1.27SV
	100	73.55	—	H4320-ND	6.99	141.23	443.85	FX2-100P-1.27SV
	120	86.25	—	H4321-ND	7.93	160.13	503.25	FX2-120P-1.27SV
Right Angle Header (SMT)								
3	20	22.75	—	H2243-ND	2.50	48.13	154.00	FX2-20P-0.635SH
	40	35.45	—	H2244-ND	3.05	59.06	189.00	FX2-40P-0.635SH
	52	43.07	—	H2245-ND	3.51	68.06	217.80	FX2-52P-0.635SH
	60	48.15	—	H2246-ND	3.83	74.25	237.60	FX2-60P-0.635SH
	80	60.85	—	H2247-ND	4.64	90.00	288.00	FX2-80P-0.635SH
	100	73.55	—	H4304-ND	10.35	213.75	720.00	FX2-100P-0.635SH
Straight Receptacle No Cleaning Type								
4	20	22.75	9.5	H4300-ND	3.19	61.88	198.00	FX2C-20S-1.27DSA
	32	30.37	9.5	H4373-ND	3.71	72.00	230.40	FX2C-32S-1.27DSA
	40	35.45	9.5	H4301-ND	4.12	79.88	255.60	FX2C-40S-1.27DSA
	52	43.07	9.5	H4374-ND	4.84	93.94	300.60	FX2C-52S-1.27DSA
	60	48.15	9.5	H4375-ND	5.31	102.94	329.40	FX2C-60S-1.27DSA
	68	53.23	9.5	H4376-ND	5.66	109.69	351.00	FX2C-68S-1.27DSA
	80	60.85	9.5	H4302-ND	6.61	128.25	410.40	FX2C-80S-1.27DSA
	100	73.55	9.5	H4377-ND	6.79	137.03	430.65	FX2C-100S-1.27DSA
	120	86.25	9.5	H4378-ND	7.54	152.25	478.50	FX2C-120S-1.27DSA
	20	22.75	11.5	H4397-ND	3.89	75.38	241.20	FX2C2-20S-1.27DSA
	32	30.37	11.5	H4398-ND	4.35	84.38	270.00	FX2C2-32S-1.27DSA
	40	35.45	11.5	H4399-ND	4.81	93.38	298.80	FX2C2-40S-1.27DSA
	52	43.07	11.5	H4400-ND	5.48	106.31	340.20	FX2C2-52S-1.27DSA
	60	48.15	11.5	H4401-ND	5.89	114.19	365.40	FX2C2-60S-1.27DSA
	68	53.23	11.5	H4402-ND	6.26	121.50	388.80	FX2C2-68S-1.27DSA
	80	60.85	11.5	H4403-ND	6.50	131.25	412.50	FX2C2-80S-1.27DSA
	100	73.55	11.5	H4404-ND	7.36	148.58	466.95	FX2C2-100S-1.27DSA
	120	86.25	11.5	H4405-ND	8.09	163.28	513.15	FX2C2-120S-1.27DSA
Straight Receptacle Cleaning Type								
4	20	22.75	9.5	H4424-ND	3.19	61.88	198.00	FX2CA-20S-1.27DSA
	32	30.37	9.5	H4425-ND	3.71	72.00	230.40	FX2CA-32S-1.27DSA
	40	35.45	9.5	H4303-ND	4.12	79.88	255.60	FX2CA-40S-1.27DSA
	52	43.07	9.5	H4426-ND	4.84	93.94	300.60	FX2CA-52S-1.27DSA
	60	48.15	9.5	H4427-ND	5.31	102.94	329.40	FX2CA-60S-1.27DSA
	68	53.23	9.5	H4428-ND	5.66	109.69	351.00	FX2CA-68S-1.27DSA
	80	60.85	9.5	H4429-ND	6.61	128.25	410.40	FX2CA-80S-1.27DSA
	100	73.55	9.5	H4430-ND	6.79	137.03	430.65	FX2CA-100S-1.27DSA
	120	86.25	9.5	H4431-ND	7.54	152.25	478.50	FX2CA-120S-1.27DSA
	20	22.75	11.5	H4441-ND	3.89	75.38	241.20	FX2CA2-20S-1.27DSA
	32	30.37	11.5	H4442-ND	4.35	84.38	270.00	FX2CA2-32S-1.27DSA
	40	35.45	11.5	H4443-ND	4.81	93.38	298.80	FX2CA2-40S-1.27DSA
	52	43.07	11.5	H4444-ND	5.48	106.31	340.20	FX2CA2-52S-1.27DSA
	60	48.15	11.5	H4445-ND	5.89	114.19	365.40	FX2CA2-60S-1.27DSA
	68	53.23	11.5	H4446-ND	6.26	121.50	388.80	FX2CA2-68S-1.27DSA
	80	60.85	11.5	H4447-ND	6.50	131.25	412.50	FX2CA2-80S-1.27DSA
	100	73.55	11.5	H4448-ND	7.36	148.58	466.95	FX2CA2-100S-1.27DSA
	120	86.25	11.5	H4449-ND	8.09	163.28	513.15	FX2CA2-120S-1.27DSA
Straight Receptacle								
5	60	35.1	—	H4452-ND	7.18	144.90	455.40	FX2M6A-60S-1.27DSAL
	60	19.1	—	H4453-ND	7.18	144.90	455.40	FX2M6B-60S-1.27DSAL
Right Angle Receptacle								
6	20	22.75	—	H4313-ND	3.25	63.00	201.60	FX2-20S-1.27DS
	32	30.37	—	H4314-ND	3.83	74.25	237.60	FX2-32S-1.27DS
	40	35.45	—	H4292-ND	4.26	82.69	264.60	FX2-40S-1.27DS
	52	43.07	—	H4293-ND	4.96	96.19	307.80	FX2-52S-1.27DS

Fig.	No. of Pins	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
6	60	48.15	—	H4294-ND	5.48	106.31	340.20	FX2-60S-1.27DS
	68	53.23	—	H4315-ND	5.80	112.50	360.00	FX2-68S-1.27DS
	80	60.85	—	H4295-ND	6.82	132.19	423.00	FX2-80S-1.27DS
	100	73.55	—	H4316-ND	7.07	142.80	448.80	FX2-100S-1.27DS
	120	86.25	—	H4317-ND	8.24	166.43	523.05	FX2-120S-1.27DS
Straight Header No Cleaning Lock Type								
7	20	30.33	—	H4334-ND§	3.42	66.38	212.40	FX2B-20P-1.27DSA
	32	37.95	—	H4335-ND§	4.00	77.63	248.40	FX2B-32P-1.27DSA
	40	43.03	—	H4336-ND	4.38	84.94	271.80	FX2B-40PA-1.27DSA
	52	50.65	—	H4337-ND	4.64	90.00	288.00	FX2B-52PA-1.27DSA
	60	55.73	—	H4338-ND	4.84	93.94	300.60	FX2B-60PA-1.27DSA
	68	60.81	—	H4339-ND	5.13	99.56	318.60	FX2B-68PA-1.27DSA
	80	68.43	—	H4340-ND	5.42	105.19	336.60	FX2B-80PA-1.27DSA
	100	81.13	—	H4341-ND	5.97	115.88	370.80	FX2B-100PA-1.27DSA
Straight Header Cleaning Lock Type								
7	20	30.33	—	H4358-ND§	3.42	66.38	212.40	FX2BA-20P-1.27DSA
	32	37.95	—	H4359-ND§	4.00	77.63	248.40	FX2BA-32P-1.27DSA
	40	43.03	—	H4360-ND	4.38	84.94	271.80	FX2BA-40PA-1.27DSA
	52	50.65	—	H4361-ND	4.64	90.00	288.00	FX2BA-52PA-1.27DSA
	60	55.73	—	H4362-ND	4.84	93.94	300.60	FX2BA-60PA-1.27DSA
	68	60.81	—	H4298-ND	5.13	99.56	318.60	FX2BA-68PA-1.27DSA
	80	68.43	—	H4363-ND	5.42	105.19	336.60	FX2BA-80PA-1.27DSA
	100	81.13	—	H4364-ND	5.97	115.88	370.80	FX2BA-100PA-1.27DSA
Straight Header No Cleaning Type								
8	20	22.75	8.5	H4365-ND	3.10	60.19	192.60	FX2C-20P-1.27DSA
	32	30.37	8.5	H4366-ND	3.57	69.19	221.40	FX2C-32P-1.27DSA
	40	35.45	8.5	H4367-ND	3.97	77.06	246.60	FX2C-40P-1.27DSA
	52	43.07	8.5	H4368-ND	4.73	91.69	293.40	FX2C-52P-1.27DSA
	60	48.15	8.5	H4299-ND	5.10	99.00	316.80	FX2C-60P-1.27DSA
	68	53.23	8.5	H4369-ND	5.42	105.19	336.60	FX2C-68P-1.27DSA
	80	60.85	8.5	H4370-ND	6.35	123.19	394.20	FX2C-80P-1.27DSA
	100	73.55	8.5	H4371-ND	6.50	131.25	412.50	FX2C-100P-1.27DSA
	120	86.25	8.5	H4372-ND	7.18	144.90	455.40	FX2C-120P-1.27DSA
	20	22.75	9.5	H4379-ND	3.71	72.00	230.40	FX2C1-20P-1.27DSA
	32	30.37	9.5	H4380-ND	4.18	81.00	259.20	FX2C1-32P-1.27DSA
	40	35.45	9.5	H4381-ND	4.58	88.88	284.40	FX2C1-40P-1.27DSA
	52	43.07	9.5	H4382-ND	5.31	102.94	329.40	FX2C1-52P-1.27DSA
	60	48.15	9.5	H4383-ND	5.77	111.94	358.20	FX2C1-60P-1.27DSA
	68	53.23	9.5	H4384-ND	6.03	117.00	374.40	FX2C1-68P-1.27DSA
	80	60.85	9.5	H4385-ND	6.96	135.00	432.00	FX2C1-80P-1.27DSA
	100	73.55	9.5	H4386-ND	7.07	142.80	448.80	FX2C1-100P-1.27DSA
	120	86.25	9.5	H4387-ND	7.70	155.40	488.40	FX2C1-120P-1.27DSA
	20	22.75	10.5	H4388-ND	3.71	72.00	230.40	FX2C2-20P-1.27DSA
	32	30.37	10.5	H4389-ND	4.18	81.00	259.20	FX2C2-32P-1.27DSA
	40	35.45	10.5	H4390-ND	4.58	88.88	284.40	FX2C2-40P-1.27DSA
	52	43.07	10.5	H4391-ND	5.31	102.94	329.40	FX2C2-52P-1.27DSA
	68	53.23	10.5	H4393-ND	6.12	118.69	379.80	FX2C2-68P-1.27DSA
	80	60.85	10.5	H4394-ND	6.96	135.00	432.00	FX2C2-80P-1.27DSA
	100	73.55	10.5	H4395-ND	7.07	142.80	448.80	FX2C2-100P-1.27DSA
	120	86.25	10.5	H4396-ND	7.75	156.45	491.70	FX2C2-120P-1.27DSA
Straight Header Cleaning Type								
8	20	22.75	8.5	H4406-ND	3.10	60.19	192.60	FX2CA-20P-1.27DSA
	32	30.37	8.5	H4407-ND	3.57	69.19	221.40	FX2CA-32P-1.27DSA
	40	35.45	8.5	H4408-ND	3.97	77.06	246.60	FX2CA-40P-1.27DSA
	52	43.07	8.5	H4409-ND	4.64	90.00	288.00	FX2CA-52P-1.27DSA
	60	48.15	8.5	H4410-ND	5.10	99.00	316.80	FX2CA-60P-1.27DSA
	68	53.23	8.5	H4411-ND	5.42	105.19	336.60	FX2CA-68P-1.27DSA
	80	60.85	8.5	H4412-ND	6.35	123.19	394.20	FX2CA-80P-1.27DSA
	100	73.55	8.5	H4413-ND	6.50	131.25	412.50	FX2CA-100P-1.27DSA
	120	86.25	8.5	H4414-ND	7.18	144.90	455.40	FX2CA-120P-1.27DSA
	20	22.75	9.5	H4415-ND	3.71	72.00	230.40	FX2CA1-20P-1.27DSA
	32	30.37	9.5	H4416-ND	4.18	81.00	259.20	FX2CA1-32P-1.27DSA
	40	35.45	9.5	H4417-ND	4.58	88.88	284.40	FX2CA1-40P-1.27DSA
	52	43.07	9.5	H4418-ND	5.31	102.94	329.40	FX2CA1-52P-1.27DSA
	60	48.15	9.5	H4419-ND	5.77	111.94	358.20	FX2CA1-60P-1.27DSA
	68	53.23	9.5	H4420-ND	6.03	117.00	374.40	FX2CA1-68P-1.27DSA
	80	60.85	9.5	H4421-ND	6.96	135.00	432.00	FX2CA1-80P-1.27DSA
	100	73.55	9.5	H4422-ND	7.07	142.80	448.80	FX2CA1-100P-1.27DSA
	120	86.25	9.5	H4423-ND	7.70	155.40	488.40	FX2CA1-120P-1.27DSA
	20	22.75	10.5	H4432-ND	3.71	72.00	230.40	FX2CA2-20P-1.27DSA

§ Contact Material: Phosphor bronze

(Continued)

FX2 Series - Connectors 1.27mm Pitch *(Cont.)*

Fig.	No. of Pins	Dimension (mm) A	Dimension (mm) B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Hirose Part No.
8	32	30.37	10.5	H4433-ND	4.18	81.00	259.20	FX2CA2-32P-1.27DSA
	40	35.45	10.5	H4434-ND	4.58	88.88	284.40	FX2CA2-40P-1.27DSA
	52	43.07	10.5	H4435-ND	5.31	102.94	329.40	FX2CA2-52P-1.27DSA
	60	48.15	10.5	H4436-ND	5.77	111.94	358.20	FX2CA2-60P-1.27DSA
	68	53.23	10.5	H4437-ND	6.12	118.69	379.80	FX2CA2-68P-1.27DSA
	80	60.85	10.5	H4438-ND	6.96	135.00	432.00	FX2CA2-80P-1.27DSA
	100	73.55	10.5	H4439-ND	7.07	142.80	448.80	FX2CA2-100P-1.27DSA
	120	86.25	10.5	H4440-ND	7.75	156.45	491.70	FX2CA2-120P-1.27DSA
Straight Header								
9	60	30.9	—	H4450-ND	6.99	141.23	443.85	FX2M6A-60P-1.27DSAL
	60	24.9	—	H4451-ND	6.99	141.23	443.85	FX2M6B-60P-1.27DSAL
Right Angle Header								
10	20	22.75	—	H4305-ND	3.16	61.31	196.20	FX2-20P-1.27DS
	32	30.37	—	H4306-ND	3.65	70.88	226.80	FX2-32P-1.27DS
	40	35.45	—	H4291-ND	4.09	79.31	253.80	FX2-40P-1.27DS
	52	43.07	—	H4307-ND	4.84	93.94	300.60	FX2-52P-1.27DS
	60	48.15	—	H4308-ND	5.34	103.50	331.20	FX2-60P-1.27DS
	68	53.23	—	H4309-ND	5.71	110.81	354.60	FX2-68P-1.27DS
	80	60.85	—	H4310-ND	6.70	129.94	415.80	FX2-80P-1.27DS
	100	73.55	—	H4311-ND	6.84	138.08	433.95	FX2-100P-1.27DS
	120	86.25	—	H4312-ND	8.01	161.70	508.20	FX2-120P-1.27DS
Right Angle Header Lock Type								
11	20	30.33	—	H4326-ND	3.65	70.88	226.80	FX2B-20PA-1.27DS
	32	37.95	—	H4327-ND	3.97	77.06	246.60	FX2B-32PA-1.27DS
	40	43.03	—	H4328-ND	4.76	92.25	295.20	FX2B-40PA-1.27DS
	52	50.65	—	H4329-ND	5.02	97.31	311.40	FX2B-52PA-1.27DS
	60	55.73	—	H4330-ND	5.31	102.94	329.40	FX2B-60PA-1.27DS
	68	60.81	—	H4331-ND	5.51	106.88	342.00	FX2B-68PA-1.27DS
	80	68.43	—	H4332-ND	5.89	114.19	365.40	FX2B-80PA-1.27DS
	100	81.13	—	H4333-ND	6.41	124.31	397.80	FX2B-100PA-1.27DS
Socket Lock Cable Type (4 pieces per part)								
12	20	27.83	—	H4342-ND	7.49	151.20	475.20	FX2B-20SA-1.27R
	32	35.45	—	H4343-ND	8.35	168.53	529.65	FX2B-32SA-1.27R
	40	40.53	—	H4344-ND	8.42	173.85	585.60	FX2B-40SA-1.27R
	52	48.15	—	H4345-ND	9.48	195.70	659.20	FX2B-52SA-1.27R
	60	53.23	—	H4346-ND	10.03	207.10	697.60	FX2B-60SA-1.27R
	68	58.31	—	H4296-ND	10.72	221.35	745.60	FX2B-68SA-1.27R
	80	65.93	—	H4347-ND	11.39	235.13	792.00	FX2B-80SA-1.27R
	100	78.63	—	H4348-ND	11.64	254.63	902.10	FX2B-100SA-1.27R
Socket Unlock Cable Type								
13	20	18.05	—	H4349-ND	6.26	121.50	388.80	FX2BA-20SA-1.27R
	32	25.67	—	H4350-ND	7.12	143.85	452.10	FX2BA-32SA-1.27R
	40	30.75	—	H4351-ND	8.50	171.68	539.55	FX2BA-40SA-1.27R
	52	38.37	—	H4352-ND	8.58	177.18	596.80	FX2BA-52SA-1.27R
	60	43.45	—	H4353-ND	9.11	188.10	633.60	FX2BA-60SA-1.27R
	68	48.53	—	H4354-ND	9.82	202.83	683.20	FX2BA-68SA-1.27R
	80	56.15	—	H4297-ND	10.49	216.60	729.60	FX2BA-80SA-1.27R
	100	68.85	—	H4355-ND	10.86	237.56	841.65	FX2BA-100SA-1.27R
Tools								
Guide Plate				H4356-ND		3380.00/1		FX2B(A)-GPA
Connection Press................				H4357-ND		990.60/1		HIFLEX CONNECTING PRESS HHP502

§ Contact Material: Phosphor bronze

DF19 Series - Connectors

1mm Pitch

Features: • Ultra Low Profile; FPC type: Maximum 1.7mm thick; Discrete wire and coaxial 1.5mm thick **Applications:** • LCD's, notebook personal computers, small OA machines, and small consumer products **Specifications:** • Current Rating: AWG#28: 1A, AWG#30: 0.5A, AWG#32: 0.3A, FPC: 0.5A • Voltage Rating: AC100V • Operating Temperature: -35°C ~ 85°C • Operating Humidity Range: 20% ~ 80% • Insulation Resistance: 500MΩ or more • Voltage Proof: No flashover or breakdown • Contact Resistance: 30mΩ or less (50mΩ or less for FPC) **Material:** • *Pin Header:* Insulation Polyamide resin, grey, UL94V-0; Terminal: Phosphor bronze with selective gold; Ground: Phosphor bronze tin plated • *Socket:* Insulation Polyamide resin, grey, UL94V-0; Ground Plate: Stainless steel tin plated • *Crimp Contact:* Terminal: Phosphor bronze, gold plated • *FPC Socket:* Insulation: Polyamide resin, grey, UL94V-0; Terminal: Phosphor bronze with selective gold • *Ground Plate for FPC*: Stainless steel, tin plated • *Socket for fine coaxial cables:* Insulation: LCP resin, grey, UL94V-0; Terminal: Phosphor bronze, selective gold plating; Ground Plate: Phosphor bronze, tin plated • *Ground plate for fine coaxial cables:* Phosphor bronze, tin plated • Recommended Wire: UL1571 • Tinning is Whisker free

Fig. 1

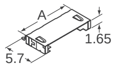

Fig. 2

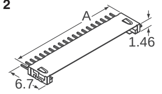

Fig. 3

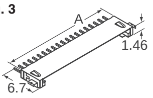

Fig. 4

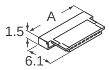

Fig. 5

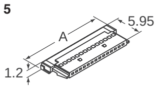

Fig. 6

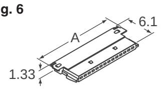

Fig.	No. of Pins	Dim. (mm) A	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	T&R Pricing 1,000	Hirose Part No.
Right Angle Pin Header SMT On-Board Type								
1	8	11.55	H3119CT-ND◊	4.21	34.80	261.00	1885.00	DF19G-8P-1H(59)‡
	14	17.55	H3152CT-ND◊	4.47	36.96	277.20	2002.00	DF19G-14P-1H(59)‡
	20	23.55	H3120CT-ND◊	5.57	46.08	345.60	2496.00	DF19G-20P-1H(59)‡
	30	33.55	H3121CT-ND◊	6.55	54.24	406.80	2938.00	DF19G-30P-1H(59)‡
Right Angle Pin Header SMT Offset Type								
2	20	23.55	H3125CT-ND◊	5.57	46.08	345.60	2496.00	DF19K-20P-1H(59)‡
	30	33.55	H3126CT-ND◊	6.55	54.24	406.80	2938.00	DF19K-30P-1H(59)‡
	14	17.55	H3153CT-ND◊	4.99	41.28	309.60	2236.00	DF19L-14P-1H(59)‡
	20	23.55	H3129CT-ND◊	5.57	46.08	345.60	2496.00	DF19L-20P-1H(59)‡
	30	33.55	H3130CT-ND◊	6.55	54.24	406.80	2938.00	DF19L-30P-1H(59)‡

Fig.	No. of Pins	Dim. (mm) A	Digi-Key Part No.	Loose Piece Pricing 1	Loose Piece Pricing 10	Loose Piece Pricing 100	T & R Pricing 1,000	Hirose Part No.
Right Angle Pin Header SMT Reverse Offset Type								
3	14	17.55	H3127CT-ND◊	4.99	41.28	309.60	2236.00	DF19KR-14P-1H(59)‡
	20	23.55	H3128CT-ND◊	5.57	46.08	345.60	2496.00	DF19KR-20P-1H(59)‡
Single Row Socket Discrete Wire								
4	8	11.50	H3101-ND	.51	3.18	18.25	—	DF19-8S-1C
	14	17.50	H3102-ND	.53	3.68	24.68	—	DF19-14S-1C
	20	23.50	H3103-ND	.74	5.15	34.55	—	DF19-20S-1C
	30	33.50	H3104-ND	.79	6.42	46.58	—	DF19-30S-1C
	8	11.50	H3105-ND	.85	6.91	50.18	—	DF19G-8S-1C
	14	17.50	H3106-ND	1.11	9.02	65.48	—	DF19G-14S-1C
	20	23.50	H3107-ND	1.43	11.63	84.38	—	DF19G-20S-1C
	30	33.50	H3108-ND	1.87	15.22	110.48	—	DF19G-30S-1C
Single Row Socket for FPC Cable								
5	14	17.50	H3109-ND	1.66	13.80	102.20	—	DF19G-14S-1F
	20	23.50	H3110-ND	2.07	17.23	127.60	—	DF19G-20S-1F
	30	33.50	H3111-ND	2.57	21.38	158.40	—	DF19G-30S-1F
Single Row Socket Fine Coaxial Cable								
6	14	17.50	H3115-ND	2.02	16.74	124.00	—	DF19G-14S-1SD
	20	23.50	H3116-ND	2.41	19.98	148.00	—	DF19G-20S-1SD

Ground Plates

No. of Pins	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Hirose Part No.
Ground Plate for FPC Type					
14	H3112-ND	.68	5.55	40.28	DF19G-14S-1F-GND
20	H3113-ND	.72	5.89	42.75	DF19G-20S-1F-GND
30	H3114-ND	.73	5.92	42.98	DF19G-30S-1F-GND
Ground Plate for Coaxial Type					
14	H3117-ND	.54	3.78	25.38	DF19G-14S-1SD-GND
20	H3118-ND	.62	4.31	28.91	DF19G-20S-1SD-GND

Socket Crimping Contacts

Description	Digi-Key Part No.	Cut Tape Pricing 100	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	T & R Pricing 10,000	Hirose Part No.
DF19 Series							
28-30 AWG Gold Plating	H3151CT-ND	6.82	23.10	35.20	H3151TR-ND	28.00/M	DF19-2830SCFA
30-32 AWG Gold Plating	H3132CT-ND	6.82	23.10	35.20	H3132TR-ND	28.00/M	DF19-3032SCFA
Tools							
Manual Crimper for DF19 Series	H3131-ND					1388.40/1	HT302/DF19S
Desk-Top Tool (for 14 core wires)..............	H3122-ND					2414.10/1	DF19G-14S/PR-MD2
Desk-Top Tool (for 20 core wires)..............	H3123-ND					2468.70/1	DF19G-20S/PR-MD2
Desk-Top Tool (for 30 core wires)..............	H3124-ND					2928.90/1	DF19G-30S/PR-MD2

‡ (59) indicates gold plating ◊ For Tape and Reel part number, change CT-ND to TR-ND.

DF20 Series - Connectors

1mm Pitch

Features: • Contact pitch: 1mm allows reliable solder and cable termination • Low Profile: Total mating height above the board is 5.8mm for the straight type and 5.5mm for right angle type **Applications:** Notebook PC, small office automation equipment, small consumer devices, portable devices. Any application requiring low profile reliable board-to-cable connection with a AWG# 28, AWG# 30, AWG# 32 conductors **Specifications:** • Current Rating: AWG#28: 1A, AWG#30: 0.9A, AWG#32: 0.7A • Voltage Rating: AC100V • Operating Temperature: -35°C ~ 85°C • Humidity Range: 20% ~ 80% • Insulation Resistance: 500MΩ minimum • Contact Resistance: 30mΩ maximum • Mechanical Operation: Contact Resistance of 30mΩ maximum **Material:** • Socket Insulator/Pin Header Insulator: Polyamide, beige, UL94V-0 • Socket Contact/Pin Header Contact: Phosphor bronze, gold plated • Pin Header Metal Fitting: Brass • V Type: Solder plating • H Type: Tin copper plating (Pb free)

Fig. 1

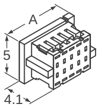

Fig. 2

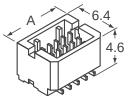

Fig.	No. of Pins	Dim. (mm) A	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	T & R Pricing 1,000	Hirose Part No.
Double Row Socket								
1	10	7.20	H3143-ND	.40	2.80	18.80	—	DF20A-10DS-1C
	20	12.20	H3144-ND	.46	3.19	21.39	—	DF20A-20DS-1C
	30	17.20	H3145-ND	.52	3.61	24.21	—	DF20A-30DS-1C
	40	22.20	H3146-ND	.57	3.99	26.79	—	DF20A-40DS-1C
	50	27.20	H3147-ND	.61	4.27	28.67	—	DF20A-50DS-1C
Double Row Straight Pin Header								
2	10	7.30	H3133CT-ND†◊	1.38	11.22	81.45	481.00	DF20F-10DP-1V(59)‡
	20	12.30	H3134CT-ND†◊	1.88	15.31	111.15	657.00	DF20F-20DP-1V(59)‡
	30	17.30	H3135CT-ND†◊	2.03	16.90	125.20	833.00	DF20F-30DP-1V(59)‡
	40	22.30	H3136CT-ND†◊	2.47	20.49	151.80	1009.00	DF20F-40DP-1V(59)‡
	50	27.30	H3137CT-ND†◊	2.88	23.95	177.40	1180.00	DF20F-50DP-1V(59)‡
	10	7.30	H3138CT-ND⋆◊	1.38	11.22	81.45	481.00	DF20G-10DP-1V(59)‡
	20	12.30	H3139CT-ND⋆◊	1.88	15.31	111.15	657.00	DF20G-20DP-1V(59)‡
	30	17.30	H3140CT-ND⋆◊	2.03	16.90	125.20	833.00	DF20G-30DP-1V(59)‡
	40	22.30	H3141CT-ND⋆◊	2.47	20.49	151.80	1009.00	DF20G-40DP-1V(59)‡
	50	27.30	H3142CT-ND⋆◊	2.88	23.95	177.40	1180.00	DF20G-50DP-1V(59)‡

Socket Crimping Contacts

Description	Digi-Key Part No.	Cut Tape Pricing 100	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	T & R Pricing 10,000	Hirose Part No.
DF20 Series							
28-30 AWG Gold Plating	H3148CT-ND	5.27	17.85	27.20	H3148TR-ND	22.00/M	DF20F-2830SCFA
30-32 AWG Gold Plating	H3149CT-ND	5.27	17.85	27.20	H3149TR-ND	22.00/M	DF20F-3032SCFA
Tools							
Manual Crimper for DF20 Series	H3150-ND					1388.40/1	HT302/DF20B-2830S

‡ (59) indicates gold plating ⋆ With Boss † Without Boss ◊ For Tape and Reel part number, change CT-ND to TR-ND.

HRS HIROSE ELECTRIC CO.,LTD.

DF13 Series Connectors

1.25mm Pitch

DF13 Series is 1.25mm pitch, compact "PCB-to-Wire" Nylon Connectors best suited for high density applications requiring reduced cost production, and light-weight.

Electrical Specifications: • Current Capacity: 1A • Rated Voltage: AC150V • Insulation Resistance: Condition: DC100, Standard Value: Min. 500MΩ • Withstanding Voltage: Condition: At specified value, Standard Value: AC500V. • Contact Resistance: Condition: At DC 0.1A, Standard Value: Maximum 30mΩ. Material and Finish: • Pin Header Insulator: Polyimide resin, beige, UL94V-0. • Pin Header Contact: Brass, tin plating and gold plating. • Pin Header Hardware: Brass, tin plating and gold plating. • Crimp Socket Insulator: Polyimide resin, beige, UL94V-0. • Crimp Socket Contact: Phosphor bronze, tin plating and gold plating.

Fig. 1

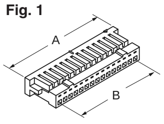

Fig. 2

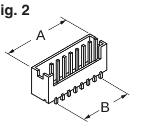

Fig. 3

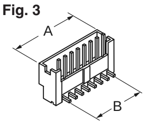

Fig. 4 — SMT

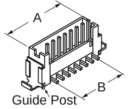

Fig. 5 — SMT

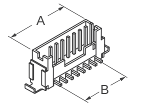

Fig. 6 — SMT

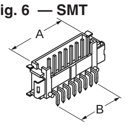

Fig. 7

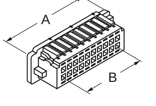

Fig. 8 — SMT

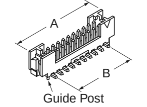

Fig. 9

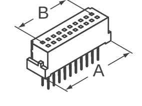

Fig. 10

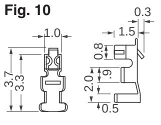

No.of Pins	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Hirose Part No.
Fig. 1 — Single Row Crimp Socket							
2	4.15	1.25	H2179-ND	.28	2.88	7.13	DF13-2S-1.25C
3	5.40	2.50	H2180-ND	.23	2.44	6.88	DF13-3S-1.25C
4	6.65	3.75	H2181-ND	.34	3.71	10.45	DF13-4S-1.25C
5	7.90	5.00	H2182-ND	.28	3.35	10.00	DF13-5S-1.25C
6	9.15	6.25	H2183-ND	.29	3.52	10.50	DF13-6S-1.25C
7	10.40	7.50	H2184-ND	.30	3.60	10.75	DF13-7S-1.25C
8	11.65	8.75	H2185-ND	.47	5.61	16.75	DF13-8S-1.25C
9	12.90	10.00	H3300-ND	.55	6.53	19.50	DF13-9S-1.25C
10	14.15	11.25	H2186-ND	.50	5.95	17.75	DF13-10S-1.25C
11	15.40	12.50	H2187-ND	.53	6.37	19.00	DF13-11S-1.25C
12	16.65	13.75	H2188-ND	.55	6.53	19.50	DF13-12S-1.25C
13	17.90	15.00	H3301-ND	.53	6.37	19.00	DF13-13S-1.25C
14	19.15	16.25	H2189-ND	.47	7.05	22.09	DF13-14S-1.25C
15	20.40	17.50	H2259-ND	.51	6.11	18.25	DF13-15S-1.25C
Fig. 2 — Single Row, Vertical Pin Header — Tin Plating							
2	4.15	1.25	H2191-ND	.48	5.70	17.00	DF13-2P-1.25DSA
3	5.40	2.50	H2192-ND	.41	6.15	19.27	DF13-3P-1.25DSA
4	6.65	3.75	H2193-ND	.54	8.03	25.15	DF13-4P-1.25DSA
5	7.90	5.00	H2194-ND	.61	9.08	28.44	DF13-5P-1.25DSA
6	9.15	6.25	H2195-ND	.68	10.20	31.96	DF13-6P-1.25DSA
7	10.40	7.50	H2196-ND	.57	10.31	33.75	DF13-7P-1.25DSA
8	11.65	8.75	H2197-ND	.71	12.86	42.08	DF13-8P-1.25DSA
9	12.90	10.00	H3302-ND	.99	17.88	58.50	DF13-9P-1.25DSA(20)
10	14.15	11.25	H2198-ND	.82	14.85	48.60	DF13-10P-1.25DSA
11	15.40	12.50	H3303-ND	1.06	19.25	63.00	DF13-11P-1.25DSA(20)
12	16.65	13.75	H2320-ND	.87	15.81	51.75	DF13-12P-1.25DSA
13	17.90	15.00	H3304-ND	1.14	20.63	67.50	DF13-13P-1.25DSA(20)
14	19.15	16.25	H2321-ND	.97	17.53	57.38	DF13-14P-1.25DSA
15	20.40	17.50	H2322-ND	1.02	18.49	60.53	DF13-15P-1.25DSA
Fig. 2 — Single Row, Vertical Pin Header — Gold Plating							
2	4.15	1.25	H3305-ND	.57	10.31	33.75	DF13-2P-1.25DSA(50)
3	5.40	2.50	H3306-ND	.76	13.75	45.00	DF13-3P-1.25DSA(50)
4	6.65	3.75	H3307-ND	.76	13.75	45.00	DF13-4P-1.25DSA(50)
5	7.90	5.00	H3308-ND	.84	15.13	49.50	DF13-5P-1.25DSA(50)
6	9.15	6.25	H3309-ND	1.10	19.94	65.25	DF13-6P-1.25DSA(50)
7	10.40	7.50	H3310-ND	1.06	19.25	63.00	DF13-7P-1.25DSA(50)
8	11.65	8.75	H3311-ND	1.14	20.63	67.50	DF13-8P-1.25DSA(50)
9	12.90	10.00	H3312-ND	1.22	22.00	72.00	DF13-9P-1.25DSA(50)
10	14.15	11.25	H3313-ND	1.33	24.06	78.75	DF13-10P-1.25DSA(50)
11	15.40	12.50	H3314-ND	1.37	24.75	81.00	DF13-11P-1.25DSA(50)
12	16.65	13.75	H3315-ND	1.69	32.50	104.00	DF13-12P-1.25DSA(50)
14	19.15	16.25	H3316-ND	1.60	28.88	94.50	DF13-14P-1.25DSA(50)
15	20.40	17.50	H3317-ND	1.71	30.94	101.25	DF13-15P-1.25DSA(50)
Fig. 3 — Single Row, Right Angle Pin Header — Tin Plating							
2	4.15	1.25	H2199-ND	.45	6.75	21.15	DF13-2P-1.25DS(20)
3	5.40	2.50	H2260-ND	.55	8.25	25.85	DF13-3P-1.25DS(20)
4	6.65	3.75	H2201-ND	.65	9.75	30.55	DF13-4P-1.25DS(20)
5	7.90	5.00	H2202-ND	.65	11.69	38.25	DF13-5P-1.25DS(20)
6	9.15	6.25	H2203-ND	.68	12.38	40.50	DF13-6P-1.25DS(20)
7	10.40	7.50	H2204-ND	.76	13.75	45.00	DF13-7P-1.25DS(20)
8	11.65	8.75	H2205-ND	.95	17.19	56.25	DF13-8P-1.25DS(20)
9	12.90	10.00	H3318-ND	1.14	20.63	67.50	DF13-9P-1.25DS(20)
10	14.15	11.25	H2206-ND	1.06	19.25	63.00	DF13-10P-1.25DS(20)
11	15.40	12.50	H3319-ND	1.37	24.75	81.00	DF13-11P-1.25DS(20)
12	16.65	13.75	H2323-ND	1.48	26.81	87.75	DF13-12P-1.25DS(20)
14	19.15	16.25	H2324-ND	1.22	22.00	72.00	DF13-14P-1.25DS(20)
15	20.40	17.50	H2325-ND	1.69	32.50	104.00	DF13-15P-1.25DS(20)
Fig. 3 — Single Row, Right Angle Pin Header — Gold Plating							
2	4.15	1.25	H3320-ND	.60	9.00	28.20	DF13-2P-1.25DS(50)
3	5.40	2.50	H3321-ND	.57	10.31	33.75	DF13-3P-1.25DS(50)
4	6.65	3.75	H3322-ND	.72	13.06	42.75	DF13-4P-1.25DS(50)
5	7.90	5.00	H3323-ND	.84	15.13	49.50	DF13-5P-1.25DS(50)
6	9.15	6.25	H3324-ND	.95	17.19	56.25	DF13-6P-1.25DS(50)
7	10.40	7.50	H3325-ND	1.06	19.25	63.00	DF13-7P-1.25DS(50)
8	11.65	8.75	H3326-ND	1.22	22.00	72.00	DF13-8P-1.25DS(50)
9	12.90	10.00	H3327-ND	1.33	24.06	78.75	DF13-9P-1.25DS(50)
10	14.15	11.25	H3328-ND	1.37	24.75	81.00	DF13-10P-1.25DS(50)
11	15.40	12.50	H3329-ND	1.48	26.81	87.75	DF13-11P-1.25DS(50)
12	16.65	13.75	H3330-ND	1.60	28.88	94.50	DF13-12P-1.25DS(50)
14	19.15	16.25	H3331-ND	1.82	33.00	108.00	DF13-14P-1.25DS(50)
15	20.40	17.50	H3332-ND	1.82	33.00	108.00	DF13-15P-1.25DS(50)
Fig. 4 — Single Row, SMT Vertical Pin Header with Guide Posts — Tin Plating							
2	4.15	1.25	H2207-ND	.50	7.50	23.50	DF13-2P-1.25V(20)
3	5.40	2.50	H2208-ND	.60	9.00	28.20	DF13-3P-1.25V(20)
4	6.65	3.75	H2209-ND	.57	10.31	33.75	DF13-4P-1.25V(20)
5	7.90	5.00	H2210-ND	.61	11.00	36.00	DF13-5P-1.25V(20)
6	9.15	6.25	H2211-ND	.65	11.69	38.25	DF13-6P-1.25V(20)
7	10.40	7.50	H2212-ND	.72	13.06	42.75	DF13-7P-1.25V(20)
8	11.65	8.75	H2213-ND	.87	15.81	51.75	DF13-8P-1.25V(20)
9	12.90	10.00	H3335-ND	.95	17.19	56.25	DF13-9P-1.25V(20)
10	14.15	11.25	H2214-ND	.99	17.88	58.50	DF13-10P-1.25V(20)
11	15.40	12.50	H2215-ND	1.06	19.25	63.00	DF13-11P-1.25V(20)
12	16.65	13.75	H2216-ND	1.06	19.25	63.00	DF13-12P-1.25V(20)
14	19.15	16.25	H2217-ND	1.14	20.63	67.50	DF13-14P-1.25V(20)
15	20.40	17.50	H2218-ND	1.25	22.69	74.25	DF13-15P-1.25V(20)
Fig. 4 — Single Row, SMT with Guide Posts Vertical Pin Header — Gold Plating							
2	4.15	1.25	H3336-ND	.72	13.06	42.75	DF13-2P-1.25V(50)
3	5.40	2.50	H3337-ND	.87	15.81	51.75	DF13-3P-1.25V(50)
4	6.65	3.75	H3338-ND	1.06	19.25	63.00	DF13-4P-1.25V(50)
5	7.90	5.00	H3339-ND	1.14	20.63	67.50	DF13-5P-1.25V(50)
6	9.15	6.25	H3340-ND	1.25	22.69	74.25	DF13-6P-1.25V(50)
7	10.40	7.50	H3341-ND	1.33	24.06	78.75	DF13-7P-1.25V(50)
8	11.65	8.75	H3342-ND	1.56	28.19	92.25	DF13-8P-1.25V(50)
9	12.90	10.00	H3343-ND	1.71	30.94	101.25	DF13-9P-1.25V(50)
10	14.15	11.25	H3344-ND	1.82	33.00	108.00	DF13-10P-1.25V(50)
11	15.40	12.50	H3345-ND	1.86	33.69	110.25	DF13-11P-1.25V(50)
12	16.65	13.75	H3346-ND	1.86	33.69	110.25	DF13-12P-1.25V(50)
14	19.15	16.25	H3347-ND	1.89	36.25	116.00	DF13-14P-1.25V(50)
15	20.40	17.50	H3348-ND	1.98	38.13	122.00	DF13-15P-1.25V(50)
Fig. 5 — Single Row, SMT Vertical Pin Header with Boss — Tin Plating							
2	4.15	1.25	H3393-ND	.50	7.50	23.50	DF13B-2P-1.25V(20)
3	5.40	2.50	H3394-ND	.60	9.00	28.20	DF13B-3P-1.25V(20)
4	6.65	3.75	H3395-ND	.57	10.31	33.75	DF13B-4P-1.25V(20)
5	7.90	5.00	H3396-ND	.61	11.00	36.00	DF13B-5P-1.25V(20)
6	9.15	6.25	H3397-ND	.65	11.69	38.25	DF13B-6P-1.25V(20)
7	10.40	7.50	H3398-ND	.72	13.06	42.75	DF13B-7P-1.25V(20)
8	11.65	8.75	H3399-ND	.87	15.81	51.75	DF13B-8P-1.25V(20)
9	12.90	10.00	H3400-ND	.95	17.19	56.25	DF13B-9P-1.25V(20)
10	14.15	11.25	H3401-ND	.99	17.88	58.50	DF13B-10P-1.25V(20)
11	15.40	12.50	H3402-ND	1.06	19.25	63.00	DF13B-11P-1.25V(20)
12	16.65	13.75	H3403-ND	1.06	19.25	63.00	DF13B-12P-1.25V(20)
14	19.15	16.25	H3404-ND	1.14	20.63	67.50	DF13B-14P-1.25V(20)
15	20.40	17.50	H3405-ND	1.25	22.69	74.25	DF13B-15P-1.25V(20)
Fig. 5 — Single Row, SMT Vertical Pin Header with Boss — Gold Plating							
2	4.15	1.25	H3406-ND	.72	13.06	42.75	DF13B-2P-1.25V(50)
3	5.40	2.50	H3407-ND	.87	15.81	51.75	DF13B-3P-1.25V(50)
4	6.65	3.75	H3408-ND	1.06	19.25	63.00	DF13B-4P-1.25V(50)
5	7.90	5.00	H3409-ND	1.14	20.63	67.50	DF13B-5P-1.25V(50)
6	9.15	6.25	H3410-ND	1.25	22.69	74.25	DF13B-6P-1.25V(50)
7	10.40	7.50	H3411-ND	1.33	24.06	78.75	DF13B-7P-1.25V(50)
8	11.65	8.75	H3412-ND	1.56	28.19	92.25	DF13B-8P-1.25V(50)
9	12.90	10.00	H3413-ND	1.71	30.94	101.25	DF13B-9P-1.25V(50)
10	14.15	11.25	H3414-ND	1.82	33.00	108.00	DF13B-10P-1.25V(50)
11	15.40	12.50	H3415-ND	1.86	33.69	110.25	DF13B-11P-1.25V(50)
12	16.65	13.75	H3416-ND	1.69	32.50	104.00	DF13B-12P-1.25V(50)
14	19.15	16.25	H3417-ND	1.89	36.25	116.00	DF13B-14P-1.25V(50)
15	20.40	17.50	H3418-ND	1.98	38.13	122.00	DF13B-15P-1.25V(50)
Fig. 5 — Single Row, SMT Vertical Pin Header without Boss — Tin Plating							
2	4.15	1.25	H3419-ND	.50	7.50	23.50	DF13C-2P-1.25V(20)
3	5.40	2.50	H3420-ND	.60	9.00	28.20	DF13C-3P-1.25V(20)
4	6.65	3.75	H3421-ND	.57	10.31	33.75	DF13C-4P-1.25V(20)
5	7.90	5.00	H3422-ND	.61	11.00	36.00	DF13C-5P-1.25V(20)
6	9.15	6.25	H3423-ND	.65	11.69	38.25	DF13C-6P-1.25V(20)
7	10.40	7.50	H3424-ND	.72	13.06	42.75	DF13C-7P-1.25V(20)
8	11.65	8.75	H3425-ND	.87	15.81	51.75	DF13C-8P-1.25V(20)
9	12.90	10.00	H3426-ND	.95	17.19	56.25	DF13C-9P-1.25V(20)
10	14.15	11.25	H3427-ND	.99	17.88	58.50	DF13C-10P-1.25V(20)
11	15.40	12.50	H3428-ND	1.06	19.25	63.00	DF13C-11P-1.25V(20)
12	16.65	13.75	H3429-ND	1.06	19.25	63.00	DF13C-12P-1.25V(20)
14	19.15	16.25	H3430-ND	1.14	20.63	67.50	DF13C-14P-1.25V(20)
15	20.40	17.50	H3431-ND	1.25	22.69	74.25	DF13C-15P-1.25V(20)
Fig. 5 — Single Row, SMT Vertical Pin Header without Boss — Gold Plating							
2	4.15	1.25	H3432-ND	.72	13.06	42.75	DF13C-2P-1.25V(50)
3	5.40	2.50	H3433-ND	.87	15.81	51.75	DF13C-3P-1.25V(50)
4	6.65	3.75	H3434-ND	1.06	19.25	63.00	DF13C-4P-1.25V(50)
5	7.90	5.00	H3435-ND	1.14	20.63	67.50	DF13C-5P-1.25V(50)
6	9.15	6.25	H3436-ND	1.25	22.69	74.25	DF13C-6P-1.25V(50)
7	10.40	7.50	H3437-ND	1.33	24.06	78.75	DF13C-7P-1.25V(50)
8	11.65	8.75	H3438-ND	1.56	28.19	92.25	DF13C-8P-1.25V(50)
9	12.90	10.00	H3439-ND	1.71	30.94	101.25	DF13C-9P-1.25V(50)
10	14.15	11.25	H3440-ND	1.82	33.00	108.00	DF13C-10P-1.25V(50)
11	15.40	12.50	H3441-ND	1.86	33.69	110.25	DF13C-11P-1.25V(50)
12	16.65	13.75	H3442-ND	1.69	32.50	104.00	DF13C-12P-1.25V(50)
14	19.15	16.25	H3443-ND	1.89	36.25	116.00	DF13C-14P-1.25V(50)
15	20.40	17.50	H3444-ND	1.98	38.13	122.00	DF13C-15P-1.25V(50)
Fig. 6 — Single Row, SMT Right Angle Pin Header with Boss — Tin Plating							
2	4.15	1.25	H2219-ND	.55	8.25	25.85	DF13-2P-1.25H(20)
3	5.40	2.50	H2220-ND	.60	9.00	28.20	DF13-3P-1.25H(20)
4	6.65	3.75	H2221-ND	.57	10.31	33.75	DF13-4P-1.25H(20)
5	7.90	5.00	H2222-ND	.65	11.69	38.25	DF13-5P-1.25H(20)
6	9.15	6.25	H2223-ND	.68	12.38	40.50	DF13-6P-1.25H(20)
7	10.40	7.50	H2224-ND	.76	13.75	45.00	DF13-7P-1.25H(20)
8	11.65	8.75	H2225-ND	.87	15.81	51.75	DF13-8P-1.25H(20)
9	12.90	10.00	H3349-ND	.95	17.19	56.25	DF13-9P-1.25H(20)
10	14.15	11.25	H2226-ND	1.06	19.25	63.00	DF13-10P-1.25H(20)
11	15.40	12.50	H2227-ND	1.06	19.25	63.00	DF13-11P-1.25H(20)
12	16.65	13.75	H2228-ND	1.10	19.94	65.25	DF13-12P-1.25H(20)
14	19.15	16.25	H2229-ND	1.22	22.00	72.00	DF13-14P-1.25H(20)
15	20.40	17.50	H2230-ND	1.25	22.69	74.25	DF13-15P-1.25H(20)
Fig. 6 — Single Row, SMT Right Angle Pin Header with Boss — Gold Plating							
2	4.15	1.25	H3350-ND	.72	13.06	42.75	DF13-2P-1.25H(50)
3	5.40	2.50	H3351-ND	.87	15.81	51.75	DF13-3P-1.25H(50)
4	6.65	3.75	H3352-ND	1.06	19.25	63.00	DF13-4P-1.25H(50)
5	7.90	5.00	H3353-ND	1.14	20.63	67.50	DF13-5P-1.25H(50)
6	9.15	6.25	H3354-ND	1.25	22.69	74.25	DF13-6P-1.25H(50)
7	10.40	7.50	H3355-ND	1.33	24.06	78.75	DF13-7P-1.25H(50)
8	11.65	8.75	H3356-ND	1.56	28.19	92.25	DF13-8P-1.25H(50)
9	12.90	10.00	H3357-ND	1.71	30.94	101.25	DF13-9P-1.25H(50)
10	14.15	11.25	H3358-ND	1.82	33.00	108.00	DF13-10P-1.25H(50)
11	15.40	12.50	H3359-ND	1.86	33.69	110.25	DF13-11P-1.25H(50)
12	16.65	13.75	H3360-ND	1.69	32.50	104.00	DF13-12P-1.25H(50)
14	19.15	16.25	H3361-ND	1.89	36.25	116.00	DF13-14P-1.25H(50)
15	20.40	17.50	H3362-ND	1.98	38.13	122.00	DF13-15P-1.25H(50)
Fig. 6 — Single Row, SMT Right Angle Pin Header without Boss — Tin Plating							
2	4.15	1.25	H3367-ND	.50	7.50	23.50	DF13A-2P-1.25H(20)
3	5.40	2.50	H3368-ND	.60	9.00	28.20	DF13A-3P-1.25H(20)
4	6.65	3.75	H3369-ND	.57	10.31	33.75	DF13A-4P-1.25H(20)
5	7.90	5.00	H3370-ND	.61	11.00	36.00	DF13A-5P-1.25H(20)
6	9.15	6.25	H3371-ND	.65	11.69	38.25	DF13A-6P-1.25H(20)
7	10.40	7.50	H3372-ND	.72	13.06	42.75	DF13A-7P-1.25H(20)
8	11.65	8.75	H3373-ND	.87	15.81	51.75	DF13A-8P-1.25H(20)
9	12.90	10.00	H3374-ND	.95	17.19	56.25	DF13A-9P-1.25H(20)
10	14.15	11.25	H3375-ND	.99	17.88	58.50	DF13A-10P-1.25H(20)
11	15.40	12.50	H3376-ND	1.06	19.25	63.00	DF13A-11P-1.25H(20)
12	16.65	13.75	H3377-ND	1.10	19.94	65.25	DF13A-12P-1.25H(20)
14	19.15	16.25	H3378-ND	1.22	22.00	72.00	DF13A-14P-1.25H(20)
15	20.40	17.50	H3379-ND	1.25	22.69	74.25	DF13A-15P-1.25H(20)
Fig. 6 — Single Row, SMT Right Angle Pin Header without Boss — Gold Plating							
2	4.15	1.25	H3380-ND	.72	13.06	42.75	DF13A-2P-1.25H(50)
3	5.40	2.50	H3381-ND	.87	15.81	51.75	DF13A-3P-1.25H(50)
4	6.65	3.75	H3382-ND	1.06	19.25	63.00	DF13A-4P-1.25H(50)
5	7.90	5.00	H3383-ND	1.14	20.63	67.50	DF13A-5P-1.25H(50)
6	9.15	6.25	H3384-ND	1.25	22.69	74.25	DF13A-6P-1.25H(50)
7	10.40	7.50	H3385-ND	1.33	24.06	78.75	DF13A-7P-1.25H(50)
8	11.65	8.75	H3386-ND	1.56	28.19	92.25	DF13A-8P-1.25H(50)
9	12.90	10.00	H3387-ND	1.71	30.94	101.25	DF13A-9P-1.25H(50)
10	14.15	11.25	H3388-ND	1.82	33.00	108.00	DF13A-10P-1.25H(50)
11	15.40	12.50	H3389-ND	1.86	33.69	110.25	DF13A-11P-1.25H(50)
12	16.65	13.75	H3390-ND	1.69	32.50	104.00	DF13A-12P-1.25H(50)
14	19.15	16.25	H3391-ND	1.89	36.25	116.00	DF13A-14P-1.25H(50)
15	20.40	17.50	H3392-ND	1.98	38.13	122.00	DF13A-15P-1.25H(50)
Fig. 7 — Dual Row Crimp Sockets							
10	10.40	5.00	H2231-ND	.33	3.94	11.75	DF13-10DS-1.25C
20	16.65	11.25	H2232-ND	.40	4.77	14.25	DF13-20DS-1.25C
30	22.90	17.50	H2233-ND	.48	5.70	17.00	DF13-30DS-1.25C
40	29.15	23.75	H2234-ND	.54	6.45	19.25	DF13-40DS-1.25C
Fig. 8 — SMT Straight Pin Headers with Guide Posts — Tin Plating							
10	12.1	5.00	H3365-ND†	.95	17.19	56.25	DF13A-10DP-1.25V(20)
20	18.35	11.25	H3366-ND†	1.25	22.69	74.25	DF13A-20DP-1.25(20)
NEW! Fig. 8 — SMT Straight Pin Headers with Guide Posts — Tin Plating — RoHS Compliant NEW!							
10	12.1	5.00	H10155-ND*	.95	17.19	56.25	DF13-10DP-1.25V(25)
20	18.35	11.25	H10156-ND*	1.33	24.06	78.75	DF13-20DP-1.25V(25)
10	12.1	5.00	H10157-ND†	.95	17.19	56.25	DF13A-10DP-1.25V(25)
20	18.35	11.25	H10158-ND†	1.33	24.06	78.75	DF13A-20DP-1.25(25)
NEW! Fig. 8 — SMT Straight Pin Headers with Guide Posts — Gold Plating — RoHS Compliant NEW!							
10	12.10	5.00	H10159-ND*	.99	17.88	58.50	DF13-10DP-1.25V(55)
20	18.35	11.25	H10160-ND*	1.48	26.81	87.75	DF13-20DP-1.25V(55)
30	24.60	17.50	H10161-ND*	1.69	32.50	104.00	DF13-30DP-1.25V(55)
40	30.85	23.75	H10162-ND*	2.11	40.63	130.00	DF13-40DP-1.25V(55)
Fig. 8 — SMT Straight Pin Headers without Guide Posts — Gold Plating							
10	12.10	5.00	H2239-ND	.99	17.88	58.50	DF13A-10DP-1.25V(50)
30	24.60	17.50	H2241-ND	1.66	31.88	102.00	DF13A-30DP-1.25V(50)
NEW! Fig. 8 — SMT Straight Pin Headers without Guide Posts — Gold Plating — RoHS Compliant NEW!							
10	12.10	5.00	H10163-ND	.99	17.88	58.50	DF13A-10DP-1.25V(55)
20	18.35	11.25	H10164-ND	1.48	26.81	87.75	DF13A-20DP-1.25V(55)
30	24.60	17.50	H10165-ND	1.69	32.50	104.00	DF13A-30DP-1.25V(55)
40	30.85	23.75	H10166-ND	2.11	40.63	130.00	DF13A-40DP-1.25V(55)
Fig. 9 — Dual Row Receptacles — Gold Plating							
20	15.40	11.25	H3363-ND	2.63	50.63	162.00	DF13-20DS-1.25DSA(50)
NEW! Fig. 9 — Dual Row Receptacles — Gold Plating — RoHS Compliant NEW!							
20	15.40	11.25	H10167-ND	2.73	52.50	168.00	DF13-20DS-1.25DSA(55)
40	27.90	23.75	H10168-ND	3.89	75.38	241.20	DF13-40DS-1.25DSA(55)

	Digi-Key Part No.	Pricing	Hirose Part No.
Fig. 10 — Socket Crimp Contact			
Tin Pltg., AWG 26-30	H9992CT-ND‡ H9992TR-ND◊	2.79/100 110.00/10,000	DF13-2630SCF
Gold Pltg., AWG 26-30	H9991CT-ND‡ H9991TR-ND◊	6.20/100 260.00/10,000	DF13-2630SCFA
Hand Crimp Tools and Die Sets			
Tool with Non-Removable Die	H9994-ND	897.00/1	DF13-TB2630HC
Tool with Die Set	H9925-ND	832.00/1	DF13-TB2630HC/US
Tool without Die Set	H9926-ND	332.50/1	HRUS-HT-1
Die Set for H9926-ND	H9929-ND	518.70/1	DF13-TB2630HC/US-DS
Extraction Tool			
Crimp Pin and Socket	H9996-ND	2.90/1	DF-C-PO(B)

* With Boss † Without Boss ‡ Cut Tape ◊ Tape & Reel

HIROSE ELECTRIC CO.,LTD.

DF14 Series Connectors

1.25mm Pitch

Features: • Super Low Profile: This is a connector special for right angle which has pursued a low profile on the board • Board mounting height: 2.5mm • The header has the box structure to prevent from being twisted and has the perfect mis-insertion prevention method. Moreover, the header has the wall on the board side and doesn't have any trouble resulted from the friction to board by socket. In addition, the metal fitting is attached to prevent the solder peel.

Applications: • LCD • Notebook PC • Mobile terminal small business equipment • Video camera **Specifications:** • Current Rating: 1A • Voltage Rating: 150VAC • Operating Temperature Range: -25°C ~ 85°C • Operating Moisture Range: 40% ~ 80% • Insulation Resistance: 100VDC, 500MΩ minimum • Withstanding Voltage: 1 minute at rated value, 500VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA, 30mΩ maximum • Operating Life: Contact resistance of 30mΩ maximum (tin plating: 30 cycles and gold plating: 50 cycles) **Material: (socket/header):** • Insulator: Polyamide, beige, UL94V-0 • Contacts: Socket: Phosphor copper with gold or tin plating Header: Brass with gold or tin plating • Header Fittings: Phosphor copper with tin plating

Fig. 1

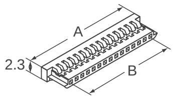

Fig. 2

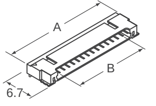

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Crimping Sockets								
1	2	4.45	1.25	H1563-ND	.54	6.45	19.25	DF14-2S-1.25C
	3	5.70	2.50	H1564-ND	.40	6.00	18.80	DF14-3S-1.25C
	4	6.95	3.75	H1565-ND	.42	6.23	19.51	DF14-4S-1.25C
	5	8.20	5.00	H1566-ND	.43	6.45	20.21	DF14-5S-1.25C
	6	9.45	6.25	H1567-ND	.45	6.68	20.92	DF14-6S-1.25C
	7	10.70	7.50	H1568-ND	.46	6.90	21.62	DF14-7S-1.25C
	8	11.95	8.75	H1569-ND	.48	7.13	22.33	DF14-8S-1.25C
	9	13.20	10.00	H1570-ND	.49	7.35	23.03	DF14-9S-1.25C
	10	14.45	11.25	H1571-ND	.51	7.58	23.74	DF14-10S-1.25C
	15	20.70	17.50	H1572-ND	.55	8.18	25.62	DF14-15S-1.25C
	20	26.95	23.75	H1573-ND	.61	9.08	28.44	DF14-20S-1.25C
	25	33.20	30.00	H1574-ND	.67	10.05	31.49	DF14-25S-1.25C
	30	39.45	36.25	H1575-ND	.59	10.73	35.10	DF14-30S-1.25C
Right Angle Pin Headers (SMT)								
Tin Plating, With Boss								
2	2	7.45	1.25	H1511-ND	1.22	22.00	72.00	DF14-2P-1.25H(20)
	3	8.70	2.50	H1512-ND	1.25	22.69	74.25	DF14-3P-1.25H(20)
	4	9.95	3.75	H1513-ND	1.37	24.75	81.00	DF14-4P-1.25H(20)
	5	11.20	5.00	H1514-ND	1.44	26.13	85.50	DF14-5P-1.25H(20)
	6	12.45	6.25	H1515-ND	1.48	26.81	87.75	DF14-6P-1.25H(20)
	7	13.70	7.50	H1516-ND	1.56	28.19	92.25	DF14-7P-1.25H(20)
	8	14.95	8.75	H1517-ND	1.67	30.25	99.00	DF14-8P-1.25H(20)
	9	16.20	10.00	H1518-ND	1.71	30.94	101.25	DF14-9P-1.25H(20)
	10	17.45	11.25	H1519-ND	1.82	33.00	108.00	DF14-10P-1.25H(20)
	15	23.70	17.50	H1520-ND	2.02	38.75	124.00	DF14-15P-1.25H(20)
	20	29.95	23.75	H1521-ND	2.37	45.63	146.00	DF14-20P-1.25H(20)
	25	36.20	30.00	H1522-ND	2.70	51.88	166.00	DF14-25P-1.25H(20)
	30	42.45	36.25	H1523-ND	2.89	55.63	178.00	DF14-30P-1.25H(20)
NEW! Tin Plating, With Boss — RoHS Compliant NEW!								
2	2	7.45	1.25	H10310-ND	1.25	22.69	74.25	DF14-2P-1.25H(25)
	3	8.70	2.50	H10314-ND	1.33	24.06	78.75	DF14-3P-1.25H(25)
	4	9.95	3.75	H10316-ND	1.44	26.13	85.50	DF14-4P-1.25H(25)
	5	11.20	5.00	H10318-ND	1.48	26.81	87.75	DF14-5P-1.25H(25)
	6	12.45	6.25	H10320-ND	1.56	28.19	92.25	DF14-6P-1.25H(25)
	7	13.70	7.50	H10322-ND	1.60	28.88	94.50	DF14-7P-1.25H(25)
	8	14.95	8.75	H10324-ND	1.71	30.94	101.25	DF14-8P-1.25H(25)
	9	16.20	10.00	H10326-ND	1.75	31.63	103.50	DF14-9P-1.25H(25)
	10	17.45	11.25	H10302-ND	1.86	33.69	110.25	DF14-10P-1.25H(25)
	15	23.70	17.50	H10304-ND	2.11	40.63	130.00	DF14-15P-1.25H(25)
	20	29.95	23.75	H10306-ND	2.47	47.50	152.00	DF14-20P-1.25H(25)
	25	36.20	30.00	H10308-ND	2.80	53.75	172.00	DF14-25P-1.25H(25)
	30	42.45	36.25	H10312-ND	3.02	58.13	186.00	DF14-30P-1.25H(25)
Tin Plating, Without Boss								
2	2	7.45	1.25	H1524-ND	1.22	22.00	72.00	DF14A-2P-1.25H(20)
	3	8.70	2.50	H1525-ND	1.25	22.69	74.25	DF14A-3P-1.25H(20)
	4	9.95	3.75	H1526-ND	1.37	24.75	81.00	DF14A-4P-1.25H(20)
	5	11.20	5.00	H1527-ND	1.44	26.13	85.50	DF14A-5P-1.25H(20)
	6	12.45	6.25	H1528-ND	1.48	26.81	87.75	DF14A-6P-1.25H(20)
	7	13.70	7.50	H1529-ND	1.56	28.19	92.25	DF14A-7P-1.25H(20)
	8	14.95	8.75	H1530-ND	1.67	30.25	99.00	DF14A-8P-1.25H(20)
	9	16.20	10.00	H1531-ND	1.71	30.94	101.25	DF14A-9P-1.25H(20)
	10	17.45	11.25	H1532-ND	1.82	33.00	108.00	DF14A-10P-1.25H(20)
	15	23.70	17.50	H1533-ND	2.02	38.75	124.00	DF14A-15P-1.25H(20)
	20	29.95	23.75	H1534-ND	2.37	45.63	146.00	DF14A-20P-1.25H(20)
	25	36.20	30.00	H1535-ND	2.70	51.88	166.00	DF14A-25P-1.25H(20)
	30	42.45	36.25	H1536-ND	2.89	55.63	178.00	DF14A-30P-1.25H(20)
NEW! Tin Plating, Without Boss — RoHS Compliant NEW!								
2	2	7.45	1.25	H10336-ND	1.25	22.69	74.25	DF14A-2P-1.25H(25)
	3	8.70	2.50	H10340-ND	1.33	24.06	78.75	DF14A-3P-1.25H(25)
	4	9.95	3.75	H10342-ND	1.44	26.13	85.50	DF14A-4P-1.25H(25)
	5	11.20	5.00	H10344-ND	1.48	26.81	87.75	DF14A-5P-1.25H(25)
	6	12.45	6.25	H10346-ND	1.56	28.19	92.25	DF14A-6P-1.25H(25)
	7	13.70	7.50	H10348-ND	1.60	28.88	94.50	DF14A-7P-1.25H(25)
	8	14.95	8.75	H10350-ND	1.71	30.94	101.25	DF14A-8P-1.25H(25)
	9	16.20	10.00	H10352-ND	1.75	31.63	103.50	DF14A-9P-1.25H(25)
	10	17.45	11.25	H10328-ND	1.86	33.69	110.25	DF14A-10P-1.25H(25)
	15	23.70	17.50	H10330-ND	2.11	40.63	130.00	DF14A-15P-1.25H(25)
	20	29.95	23.75	H10332-ND	2.47	47.50	152.00	DF14A-20P-1.25H(25)
	25	36.20	30.00	H10334-ND	2.80	53.75	172.00	DF14A-25P-1.25H(25)
	30	42.45	36.25	H10338-ND	3.02	58.13	186.00	DF14A-30P-1.25H(25)
Gold Plating, With Boss								
2	2	7.45	1.25	H1537-ND	1.22	22.00	72.00	DF14-2P-1.25H(50)
	3	8.70	2.50	H1538-ND	1.33	24.06	78.75	DF14-3P-1.25H(50)
	4	9.95	3.75	H1539-ND	1.44	26.13	85.50	DF14-4P-1.25H(50)
	5	11.20	5.00	H1540-ND	1.48	26.81	87.75	DF14-5P-1.25H(50)
	6	12.45	6.25	H1541-ND	1.60	28.88	94.50	DF14-6P-1.25H(50)
	7	13.70	7.50	H1542-ND	1.67	30.25	99.00	DF14-7P-1.25H(50)
	8	14.95	8.75	H1543-ND	1.75	31.63	103.50	DF14-8P-1.25H(50)
	9	16.20	10.00	H1544-ND	1.86	33.69	110.25	DF14-9P-1.25H(50)
	10	17.45	11.25	H1545-ND	1.66	31.88	102.00	DF14-10P-1.25H(50)
	15	23.70	17.50	H1546-ND	2.21	42.50	136.00	DF14-15P-1.25H(50)
	20	29.95	23.75	H1547-ND	2.60	50.00	160.00	DF14-20P-1.25H(50)
	25	36.20	30.00	H1548-ND	2.96	56.88	182.00	DF14-25P-1.25H(50)
	30	42.45	36.25	H1549-ND	2.96	57.38	183.60	DF14-30P-1.25H(50)
NEW! Gold Plating, With Boss — RoHS Compliant NEW!								
2	2	7.45	1.25	H10311-ND	1.25	22.69	74.25	DF14-2P-1.25H(55)
	3	8.70	2.50	H10315-ND	1.37	24.75	81.00	DF14-3P-1.25H(55)
	4	9.95	3.75	H10317-ND	1.48	26.81	87.75	DF14-4P-1.25H(55)
	5	11.20	5.00	H10319-ND	1.56	28.19	92.25	DF14-5P-1.25H(55)
	6	12.45	6.25	H10321-ND	1.67	30.25	99.00	DF14-6P-1.25H(55)
	7	13.70	7.50	H10323-ND	1.71	30.94	101.25	DF14-7P-1.25H(55)
	8	14.95	8.75	H10325-ND	1.82	33.00	108.00	DF14-8P-1.25H(55)
	9	16.20	10.00	H10327-ND	1.66	31.88	102.00	DF14-9P-1.25H(55)
	10	17.45	11.25	H10303-ND	1.69	32.50	104.00	DF14-10P-1.25H(55)
	15	23.70	17.50	H10305-ND	2.31	44.38	142.00	DF14-15P-1.25H(55)
	20	29.95	23.75	H10307-ND	2.70	51.88	166.00	DF14-20P-1.25H(55)
	25	36.20	30.00	H10309-ND	3.12	60.00	192.00	DF14-25P-1.25H(55)
	30	42.45	36.25	H10313-ND	3.07	59.63	190.80	DF14-30P-1.25H(55)
Gold Plating, Without Boss								
2	2	7.45	1.25	H1550-ND	1.22	22.00	72.00	DF14A-2P-1.25H(50)
	3	8.70	2.50	H1551-ND	1.33	24.06	78.75	DF14A-3P-1.25H(50)
	4	9.95	3.75	H1552-ND	1.44	26.13	85.50	DF14A-4P-1.25H(50)
	5	11.20	5.00	H1553-ND	1.48	26.81	87.75	DF14A-5P-1.25H(50)
	6	12.45	6.25	H1554-ND	1.60	28.88	94.50	DF14A-6P-1.25H(50)
	7	13.70	7.50	H1555-ND	1.67	30.25	99.00	DF14A-7P-1.25H(50)
	8	14.95	8.75	H1556-ND	1.75	31.63	103.50	DF14A-8P-1.25H(50)
	9	16.20	10.00	H1557-ND	1.86	33.69	110.25	DF14A-9P-1.25H(50)
	10	17.45	11.25	H1558-ND	1.66	31.88	102.00	DF14A-10P-1.25H(50)
	15	23.70	17.50	H1559-ND	2.21	42.50	136.00	DF14A-15P-1.25H(50)
	20	29.95	23.75	H1560-ND	2.60	50.00	160.00	DF14A-20P-1.25H(50)
	25	36.20	30.00	H1561-ND	2.96	56.88	182.00	DF14A-25P-1.25H(50)
	30	42.45	36.25	H1562-ND	2.96	57.38	183.60	DF14A-30P-1.25H(50)
NEW! Gold Plating, Without Boss — RoHS Compliant NEW!								
2	2	7.45	1.25	H10337-ND	1.25	22.69	74.25	DF14A-2P-1.25H(55)
	3	8.70	2.50	H10341-ND	1.37	24.75	81.00	DF14A-3P-1.25H(55)
	4	9.95	3.75	H10343-ND	1.48	26.81	87.75	DF14A-4P-1.25H(55)
	5	11.20	5.00	H10345-ND	1.56	28.19	92.25	DF14A-5P-1.25H(55)
	6	12.45	6.25	H10347-ND	1.67	30.25	99.00	DF14A-6P-1.25H(55)
	7	13.70	7.50	H10349-ND	1.71	30.94	101.25	DF14A-7P-1.25H(55)
	8	14.95	8.75	H10351-ND	1.82	33.00	108.00	DF14A-8P-1.25H(55)
	9	16.20	10.00	H10353-ND	1.66	31.88	102.00	DF14A-9P-1.25H(55)
	10	17.45	11.25	H10329-ND	1.69	32.50	104.00	DF14A-10P-1.25H(55)
	15	23.70	17.50	H10331-ND	2.31	44.38	142.00	DF14A-15P-1.25H(55)
	20	29.95	23.75	H10333-ND	2.70	51.88	166.00	DF14A-20P-1.25H(55)
	25	36.20	30.00	H10335-ND	3.12	60.00	192.00	DF14A-25P-1.25H(55)
	30	42.45	36.25	H10339-ND	3.07	59.63	190.80	DF14A-30P-1.25H(55)

Socket Crimping Contacts

Description	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	T & R Pricing	Hirose Part No.
		10	50	100		10,000	
26-28 AWG Tin Plating	H1576CT-ND	.56	1.52	2.48	H1576TR-ND	10.00/M	DF14-2628SCF
26-28 AWG Gold Plating	H1577CT-ND	1.47	3.99	6.51	H1577TR-ND	27.00/M	DF14-2628SCFA
30-32 AWG Tin Plating	H1578CT-ND	.56	1.52	2.48	H1578TR-ND	10.00/M	DF14-3032SCF
30-32 AWG Gold Plating	H1579CT-ND	1.47	3.99	6.51	H1579TR-ND	27.00/M	DF14-3032SCFA
Tools							
Manual Crimper for 26-28 AWG.................	H9949-ND					1118.00/1	DF14-2628/CR-HT
Manual Crimper for 30-32 AWG.................	H9948-ND					1118.00/1	DF14-3032/CR-HT

DF4 Series Board-In Connectors

2mm Pitch

Features:
- Extractable socket and board-in connector provided with the dual-sided harness eliminate one of the two headers required for a dual-sided socket harness, with the board separating function remaining unchanged • Compact and multicontact
- Temporary board fixing structure

Applications:
- Notebook computers, compact OA equipment

Specifications:
- Rated Current: Crimping - 24AWG: 3A, 26AWG: 2A, 28AWG: 1A. ID Termination - wire size 26/28AWG:1A • Operating Temperature: -30°C ~ 85°C • Rated Voltage: Crimping - AC250V ID termination - AC100V

Material:
- Crimp Plug: Insulation, polyimide resin, black, UL94V-0
- Crimp Terminal for Plug: Terminal, brass, tin-plated • ID Termination Plug: • Insulation: Polyimide resin, black, UL94V-0
- Terminal: Phosphor bronze, tin-plated

Fig. 1

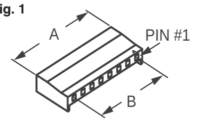

Fig. 2

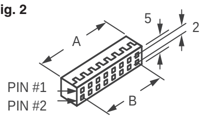

Fig.	No. of Contacts	Dimension (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Single-Row Crimp Plug								
1	2	4.5	2.0	H2582-ND	.31	3.32	9.35	DF4- 2P-2C
	3	6.5	4.0	H2583-ND	.32	3.51	9.90	DF4- 3P-2C
	4	8.5	6.0	H2584-ND	.33	3.61	10.18	DF4- 4P-2C
	5	10.5	8.0	H2585-ND	.34	3.71	10.45	DF4- 5P-2C
	6	12.5	10.0	H2586-ND	.28	3.35	10.00	DF4- 6P-2C
	7	14.5	12.0	H2587-ND	.28	3.35	10.00	DF4- 7P-2C
	8	16.5	14.0	H2588-ND	.29	3.52	10.50	DF4- 8P-2C
	9	18.5	16.0	H2589-ND	.29	3.52	10.50	DF4- 9P-2C
	10	20.5	18.0	H2590-ND	.31	3.69	11.00	DF4-10P-2C
	11	22.5	20.0	H2591-ND	.32	3.77	11.25	DF4-11P-2C
	12	24.5	22.0	H2592-ND	.32	3.85	11.50	DF4-12P-2C
	13	26.5	24.0	H2593-ND	.34	4.02	12.00	DF4-13P-2C
	14	28.5	26.0	H2594-ND	.34	4.10	12.25	DF4-14P-2C
	15	30.0	28.0	H2595-ND	.35	4.19	12.50	DF4-15P-2C
Double-Row Crimp Plug								
2	4	4.8	2.0	H2596-ND	.46	5.44	16.25	DF4- 4DP-2C
	6	6.8	4.0	H2597-ND	.47	5.61	16.75	DF4- 6DP-2C
	8	8.8	6.0	H2598-ND	.48	5.70	17.00	DF4- 8DP-2C
	10	10.8	8.0	H2599-ND	.48	5.78	17.25	DF4-10DP-2C
	12	12.8	10.0	H2600-ND	.50	5.95	17.75	DF4-12DP-2C
	14	14.8	12.0	H2601-ND	.54	6.45	19.25	DF4-14DP-2C

(Continued)

DF4 Series Board-In Connectors *(Cont.)*

2mm Pitch

Fig.	No. of Contacts	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
2	16	16.8	14.0	H2602-ND	.40	6.00	18.80	DF4-16DP-2C
	18	18.8	16.0	H2603-ND	.41	6.08	19.04	DF4-18DP-2C
	20	20.8	18.0	H2604-ND	.46	6.83	21.39	DF4-20DP-2C
	22	22.8	20.0	H2605-ND	.46	6.90	21.62	DF4-22DP-2C
	24	24.8	22.0	H2606-ND	.47	7.05	22.09	DF4-24DP-2C
	26	26.8	24.0	H2607-ND	.48	7.20	22.56	DF4-26DP-2C
	28	28.8	26.0	H2608-ND	.52	7.73	24.21	DF4-28DP-2C
	30	30.8	28.0	H2609-ND	.53	7.95	24.91	DF4-30DP-2C
	32	32.8	30.0	H2610-ND	.55	8.18	25.62	DF4-32DP-2C

Crimp Terminal

Description	Digi-Key Part No.	*Loose Piece* Pricing 100	Hirose Part No.	*Cut Tape** Pricing 10	50	100	*Tape & Reel†* Pricing 10,000	Hirose Part No.
24-28 AWG Tin Pltg.	H2612-ND	3.64	DF4-2428PC	.71	1.93	3.14	13.00/M	DF4-2428PCF
Tool								
Manual Crimper for Loose Contacts.............	H9993-ND				793.00/1			DF4-TA2428HC

* For Cut Tape, add CT to the Digi-Key Part No. (H2612CT-ND)
† For Tape and Reel, add TR to the Digi-Key Part No. (H2612TR-ND)

Termination Plugs

Fig. 1

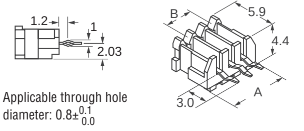

Applicable through hole diameter: $0.8\pm^{0.1}_{0.0}$

Fig. 2

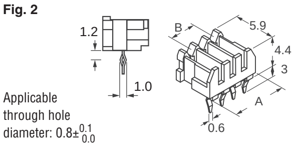

Applicable through hole diameter: $0.8\pm^{0.1}_{0.0}$

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Straight ID								
26 AWG								
1	2	6.0	2.0	H2613-ND	.54	6.45	19.25	DF4- 2P-2R26
	3	8.0	4.0	H2614-ND	.47	7.05	22.09	DF4- 3P-2R26
	4	10.0	6.0	H2615-ND	.56	8.33	26.09	DF4- 4P-2R26
	5	12.0	8.0	H2616-ND	.69	10.28	32.20	DF4- 5P-2R26
	6	14.0	10.0	H2617-ND	.59	10.73	35.10	DF4- 6P-2R26
	7	16.0	12.0	H2618-ND	.65	11.76	38.48	DF4- 7P-2R26
	8	18.0	14.0	H2619-ND	.71	12.93	42.30	DF4- 8P-2R26
	9	20.0	16.0	H2620-ND	.77	13.96	45.68	DF4- 9P-2R26
	10	22.0	18.0	H2621-ND	.84	15.19	49.73	DF4-10P-2R26
	11	24.0	20.0	H2622-ND	1.00	18.01	58.95	DF4-11P-2R26
	12	26.0	22.0	H2623-ND	1.06	19.11	62.55	DF4-12P-2R26
	13	28.0	24.0	H2624-ND	1.12	20.35	66.60	DF4-13P-2R26
	14	30.0	26.0	H2625-ND	1.19	21.45	70.20	DF4-14P-2R26
	15	32.0	28.0	H2626-ND	1.25	22.55	73.80	DF4-15P-2R26
28 AWG								
1	2	6.0	2.0	H2627-ND	.54	6.45	19.25	DF4- 2P-2R28
	3	8.0	4.0	H2628-ND	.47	7.05	22.09	DF4- 3P-2R28
	4	10.0	6.0	H2629-ND	.56	8.33	26.09	DF4- 4P-2R28
	5	12.0	8.0	H2630-ND	.69	10.28	32.20	DF4- 5P-2R28
	6	14.0	10.0	H2631-ND	.59	10.73	35.10	DF4- 6P-2R28
	7	16.0	12.0	H2632-ND	.65	11.76	38.48	DF4- 7P-2R28
	8	18.0	14.0	H2633-ND	.71	12.93	42.30	DF4- 8P-2R28
	9	20.0	16.0	H2634-ND	.77	13.96	45.68	DF4- 9P-2R28
	10	22.0	18.0	H2635-ND	.84	15.19	49.73	DF4-10P-2R28
	11	24.0	20.0	H2636-ND	1.00	18.01	58.95	DF4-11P-2R28
	12	26.0	22.0	H2637-ND	1.06	19.11	62.55	DF4-12P-2R28
	13	28.0	24.0	H2638-ND	1.12	20.35	66.60	DF4-13P-2R28
	14	30.0	26.0	H2639-ND	1.19	21.45	70.20	DF4-14P-2R28
	15	32.0	28.0	H2640-ND	1.25	22.55	73.80	DF4-15P-2R28
Right-Angle ID								
26 AWG								
2	2	6.0	2.0	H2641-ND	.53	6.37	19.00	DF4- 2PA-2R26
	3	8.0	4.0	H2642-ND	.46	6.90	21.62	DF4- 3PA-2R26
	4	10.0	6.0	H2643-ND	.54	8.10	25.38	DF4- 4PA-2R26
	5	12.0	8.0	H2644-ND	.67	10.05	31.49	DF4- 5PA-2R26
	6	14.0	10.0	H2645-ND	.58	10.45	34.20	DF4- 6PA-2R26
	7	16.0	12.0	H2646-ND	.63	11.48	37.58	DF4- 7PA-2R26
	8	18.0	14.0	H2647-ND	.70	12.58	41.18	DF4- 8PA-2R26
	9	20.0	16.0	H2648-ND	.75	13.54	44.33	DF4- 9PA-2R26
	10	22.0	18.0	H2649-ND	.81	14.71	48.15	DF4-10PA-2R26
	11	24.0	20.0	H2650-ND	.97	17.53	57.38	DF4-11PA-2R26
	12	26.0	22.0	H2651-ND	1.03	18.63	60.98	DF4-12PA-2R26
	13	28.0	24.0	H2652-ND	1.09	19.66	64.35	DF4-13PA-2R26
	14	30.0	26.0	H2653-ND	1.14	20.69	67.73	DF4-14PA-2R26
	15	32.0	28.0	H2654-ND	1.20	21.79	71.33	DF4-15PA-2R26
28 AWG								
2	2	6.0	2.0	H2655-ND	.53	6.37	19.00	DF4- 2PA-2R28
	3	8.0	4.0	H2656-ND	.46	6.90	21.62	DF4- 3PA-2R28
	4	10.0	6.0	H2657-ND	.54	8.10	25.38	DF4- 4PA-2R28
	5	12.0	8.0	H2658-ND	.67	10.05	31.49	DF4- 5PA-2R28
	6	14.0	10.0	H2659-ND	.58	10.45	34.20	DF4- 6PA-2R28
	7	16.0	12.0	H2660-ND	.63	11.48	37.58	DF4- 7PA-2R28
	8	18.0	14.0	H2661-ND	.70	12.58	41.18	DF4- 8PA-2R28
	9	20.0	16.0	H2662-ND	.75	13.54	44.33	DF4- 9PA-2R28
	10	22.0	18.0	H2663-ND	.81	14.71	48.15	DF4-10PA-2R28
	11	24.0	20.0	H2664-ND	.97	17.53	57.38	DF4-11PA-2R28
	12	26.0	22.0	H2665-ND	1.03	18.63	60.98	DF4-12PA-2R28
	13	28.0	24.0	H2666-ND	1.09	19.66	64.35	DF4-13PA-2R28
	14	30.0	26.0	H2667-ND	1.06	19.25	63.00	DF4-14PA-2R28
	15	32.0	28.0	H2668-ND	1.20	21.79	71.33	DF4-15PA-2R28

DF3 Series Single Row Connectors

2mm Pitch (interconnect wire available)

Specifications:
- Maximum Current Capacity: 3A • Rated Voltage: 250VAC • Insulation Resistance: Minimum 1000MΩ at 500VDC • Withstand Voltage: 650VAC • Contact Resistance: Maximum 30mΩ at 0.1ADC

Fig. 1

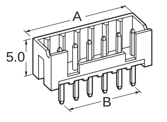

Fig. 2 — SMT

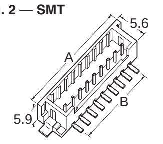

Fig. 3

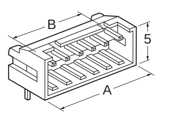

Fig. 4 — SMT

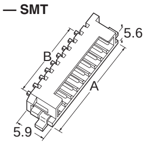

Fig. 5

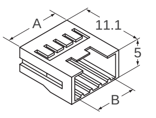

Fig. 6

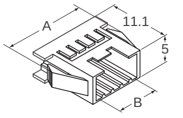

Fig. 7

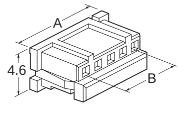

Fig. 8

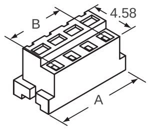

Fig. 9

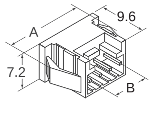

Fig. 10

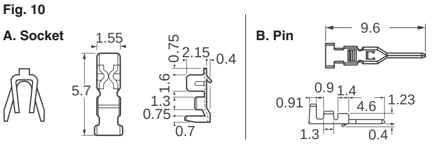

Fig.	No. of Contacts	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
PIN HEADERS Vertical								
Tin Plating — RoHS Compliant								
1	2	6	2	H2094-ND	.43	5.19	15.50	DF3A-2P-2DSA
	3	8	4	H2095-ND	.50	6.03	18.00	DF3A-3P-2DSA
	4	10	6	H2096-ND	.55	6.53	19.50	DF3A-4P-2DSA
	5	12	8	H2097-ND	.46	6.90	21.62	DF3A-5P-2DSA
	6	14	10	H2098-ND	.49	7.35	23.03	DF3A-6P-2DSA
	7	16	12	H2099-ND	.53	7.88	24.68	DF3A-7P-2DSA
	8	18	14	H2147-ND	.55	8.25	25.85	DF3A-8P-2DSA
	9	20	16	H2101-ND	.61	9.08	28.44	DF3A-9P-2DSA
	10	22	18	H2102-ND	.65	9.75	30.55	DF3A-10P-2DSA
	11	24	20	H2103-ND	.58	10.52	34.43	DF3A-11P-2DSA
	12	26	22	H2104-ND	.60	10.93	35.78	DF3A-12P-2DSA
	13	28	24	HR2021-ND	.63	11.34	37.13	DF3A-13P-2DSA
	14	30	26	HR2022-ND	.66	11.96	39.15	DF3A-14P-2DSA
	15	32	28	HR2023-ND	.68	12.38	40.50	DF3A-15P-2DSA
Tin Plating								
1	13	28	24	H2293-ND	.63	11.34	37.13	DF3-13P-2DSA
	15	32	28	H2295-ND	.68	12.38	40.50	DF3-15P-2DSA
Gold Plating								
1	2	6	2	H3921-ND	.48	7.20	22.56	DF3-2P-2DSA(01)
	3	8	4	H3922-ND	.62	9.23	28.91	DF3-3P-2DSA(01)
	4	10	6	H3923-ND	.73	10.88	34.08	DF3-4P-2DSA(01)
	5	12	8	H3924-ND	.67	12.10	39.60	DF3-5P-2DSA(01)
	6	14	10	H3925-ND	.68	12.24	40.05	DF3-6P-2DSA(01)
	7	16	12	H3926-ND	.84	15.26	49.95	DF3-7P-2DSA(01)
	8	18	14	H3927-ND	.93	16.84	55.13	DF3-8P-2DSA(01)
	9	20	16	H3928-ND	1.03	18.70	61.20	DF3-9P-2DSA(01)
	10	22	18	H3929-ND	1.13	20.42	66.83	DF3-10P-2DSA(01)
	11	24	20	H3930-ND	1.28	23.10	75.60	DF3-11P-2DSA(01)
	12	26	22	H3931-ND	1.37	24.75	81.00	DF3-12P-2DSA(01)
	13	28	24	H3932-ND	1.45	26.26	85.95	DF3-13P-2DSA(01)
	14	30	26	H3933-ND	1.55	28.05	91.80	DF3-14P-2DSA(01)
	15	32	28	H3934-ND	1.63	29.56	96.75	DF3-15P-2DSA(01)
Vertical With Boss, Surface Mount								
Tin Plating								
2	5	14.5	8	H2119-ND	.84	15.13	49.50	DF3-5P-2V(20)
	6	16.5	10	H2148-ND	.84	15.13	49.50	DF3-6P-2V(20)
	7	18.5	12	H2121-ND	.87	15.81	51.75	DF3-7P-2V(20)
	9	22.5	16	H2123-ND	.99	17.88	58.50	DF3-9P-2V(20)
	10	24.5	18	H2124-ND	1.06	19.25	63.00	DF3-10P-2V(20)
	12	28.5	22	H2126-ND	1.14	20.63	67.50	DF3-12P-2V(20)
	13	30.5	24	H2313-ND	1.22	22.00	72.00	DF3-13P-2V(20)
	14	32.5	26	H2314-ND	1.25	22.69	74.25	DF3-14P-2V(20)
	15	34.5	28	H2315-ND	1.37	24.75	81.00	DF3-15P-2V(20)
Tin Plating — RoHS Compliant								
2	2	8.5	2	HR2000-ND	.72	13.06	42.75	DF3Z-2P-2V(20)
	3	10.5	4	HR2001-ND	.72	13.06	42.75	DF3Z-3P-2V(20)
	4	12.5	6	HR2002-ND	.76	13.75	45.00	DF3Z-4P-2V(20)
	5	14.5	8	HR2003-ND	.84	15.13	49.50	DF3Z-5P-2V(20)
	6	16.5	10	HR2019-ND	.84	15.13	49.50	DF3Z-6P-2V(20)
	7	18.5	12	HR2004-ND	.87	15.81	51.75	DF3Z-7P-2V(20)

(Continued)

DF3 Series Single Row Connectors *(Cont.)*

2mm Pitch (interconnect wire available)

Fig.	No. of Contacts	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
2	8	20.5	14	HR2005-ND	.87	15.81	51.75	DF3Z-8P-2V(20)
	9	22.5	16	HR2006-ND	.99	17.88	58.50	DF3Z-9P-2V(20)
	10	24.5	18	HR2007-ND	1.06	19.25	63.00	DF3Z-10P-2V(20)
	11	26.5	20	HR2008-ND	1.06	19.25	63.00	DF3Z-11P-2V(20)
	12	28.5	22	HR2009-ND	1.10	19.94	65.25	DF3Z-12P-2V(20)
	13	30.5	24	HR2024-ND	1.14	20.63	67.50	DF3Z-13P-2V(20)
	14	32.5	26	HR2025-ND	1.22	22.00	72.00	DF3Z-14P-2V(20)
	15	34.5	28	HR2026-ND	1.33	24.06	78.75	DF3Z-15P-2V(20)
Gold Plating								
2	8	20.5	14	H3941-ND	1.33	24.06	78.75	DF3-8P-2V(50)
	9	22.5	16	H3942-ND	1.48	26.81	87.75	DF3-9P-2V(50)
	10	24.5	18	H3943-ND	1.60	28.88	94.50	DF3-10P-2V(50)
	12	28.5	22	H3945-ND	1.82	33.00	108.00	DF3-12P-2V(50)
	13	30.5	24	H3946-ND	1.66	31.88	102.00	DF3-13P-2V(50)
	14	32.5	26	H3947-ND	1.69	32.50	104.00	DF3-14P-2V(50)
Gold Plating — RoHS Compliant								
2	2	8.5	2	HR2058-ND	.72	13.06	42.75	DF3Z-2P-2V(50)
	3	10.5	4	HR2059-ND	.84	15.13	49.50	DF3Z-3P-2V(50)
	4	12.5	6	HR2060-ND	.95	17.19	56.25	DF3Z-4P-2V(50)
	5	14.5	8	HR2061-ND	1.06	19.25	63.00	DF3Z-5P-2V(50)
	6	16.5	10	HR2062-ND	1.10	19.94	65.25	DF3Z-6P-2V(50)
	7	18.5	12	HR2063-ND	1.14	20.63	67.50	DF3Z-7P-2V(50)
	8	20.5	14	HR2064-ND	1.25	22.69	74.25	DF3Z-8P-2V(50)
	9	22.5	16	HR2065-ND	1.44	26.13	85.50	DF3Z-9P-2V(50)
	10	24.5	18	HR2066-ND	1.56	28.19	92.25	DF3Z-10P-2V(50)
	11	26.5	20	HR2067-ND	1.71	30.94	101.25	DF3Z-11P-2V(50)
	12	28.5	22	HR2068-ND	1.75	31.63	103.50	DF3Z-12P-2V(50)
	13	30.5	24	HR2069-ND	1.86	33.69	110.25	DF3Z-13P-2V(50)
	14	32.5	26	HR2070-ND	1.69	32.50	104.00	DF3Z-14P-2V(50)
	15	34.5	28	HR2071-ND	1.79	34.38	110.00	DF3Z-15P-2V(50)
Vertical Without Boss, Surface Mount								
Tin Plating								
2	3	10.5	4	H3950-ND	.76	13.75	45.00	DF3D-3P-2V(20)
	4	12.5	6	H3951-ND	.84	15.13	49.50	DF3D-4P-2V(20)
	6	16.5	10	H3953-ND	.95	17.19	56.25	DF3D-6P-2V(20)
	7	18.5	12	H3954-ND	.99	17.88	58.50	DF3D-7P-2V(20)
	8	20.5	14	H3955-ND	1.06	19.25	63.00	DF3D-8P-2V(20)
	9	22.5	16	H3956-ND	1.06	19.25	63.00	DF3D-9P-2V(20)
	10	24.5	18	H3957-ND	1.10	19.94	65.25	DF3D-10P-2V(20)
	11	26.5	20	H3958-ND	1.14	20.63	67.50	DF3D-11P-2V(20)
	12	28.5	22	H3959-ND	1.22	22.00	72.00	DF3D-12P-2V(20)
	13	30.5	24	H3960-ND	1.25	22.69	74.25	DF3D-13P-2V(20)
	14	32.5	26	H3961-ND	1.33	24.06	78.75	DF3D-14P-2V(20)
	15	34.5	28	H3962-ND	1.37	24.75	81.00	DF3D-15P-2V(20)
Tin Plating — RoHS Compliant								
2	2	8.5	2	HR2072-ND	.72	13.06	42.75	DF3DZ-2P-2V(20)
	3	10.5	4	HR2073-ND	.76	13.75	45.00	DF3DZ-3P-2V(20)
	4	12.5	6	HR2074-ND	.84	15.13	49.50	DF3DZ-4P-2V(20)
	5	14.5	8	HR2075-ND	.87	15.81	51.75	DF3DZ-5P-2V(20)
	6	16.5	10	HR2076-ND	.95	17.19	56.25	DF3DZ-6P-2V(20)
	7	18.5	12	HR2077-ND	.99	17.88	58.50	DF3DZ-7P-2V(20)
	8	20.5	14	HR2078-ND	1.06	19.25	63.00	DF3DZ-8P-2V(20)
	9	22.5	16	HR2079-ND	1.06	19.25	63.00	DF3DZ-9P-2V(20)
	10	24.5	18	HR2080-ND	1.10	19.94	65.25	DF3DZ-10P-2V(20)
	11	26.5	20	HR2081-ND	1.14	20.63	67.50	DF3DZ-11P-2V(20)
	12	28.5	22	HR2082-ND	1.22	22.00	72.00	DF3DZ-12P-2V(20)
	13	30.5	24	HR2083-ND	1.25	22.69	74.25	DF3DZ-13P-2V(20)
	14	32.5	26	HR2084-ND	1.33	24.06	78.75	DF3DZ-14P-2V(20)
	15	34.5	28	HR2085-ND	1.37	24.75	81.00	DF3DZ-15P-2V(20)
Gold Plating								
2	2	8.5	2	H3963-ND	.72	13.06	42.75	DF3D-2P-2V(50)
	3	10.5	4	H3964-ND	.84	15.13	49.50	DF3D-3P-2V(50)
	4	12.5	6	H3965-ND	.95	17.19	56.25	DF3D-4P-2V(50)
	5	14.5	8	H3966-ND	1.06	19.25	63.00	DF3D-5P-2V(50)
	6	16.5	10	H3967-ND	1.14	20.63	67.50	DF3D-6P-2V(50)
	7	18.5	12	H3968-ND	1.22	22.00	72.00	DF3D-7P-2V(50)
	8	20.5	14	H3969-ND	1.33	24.06	78.75	DF3D-8P-2V(50)
	9	22.5	16	H3970-ND	1.48	26.81	87.75	DF3D-9P-2V(50)
	10	24.5	18	H3971-ND	1.60	28.88	94.50	DF3D-10P-2V(50)
	11	26.5	20	H3972-ND	1.75	31.63	103.50	DF3D-11P-2V(50)
	12	28.5	22	H3973-ND	1.82	33.00	108.00	DF3D-12P-2V(50)
	13	30.5	24	H3974-ND	1.66	31.88	102.00	DF3D-13P-2V(50)
	14	32.5	26	H3975-ND	1.76	33.75	108.00	DF3D-14P-2V(50)
	15	34.5	28	H3976-ND	1.85	35.63	114.00	DF3D-15P-2V(50)
Gold Plating — RoHS Compliant								
2	2	8.5	2	HR2086-ND	.72	13.06	42.75	DF3DZ-2P-2V(50)
	3	10.5	4	HR2087-ND	.84	15.13	49.50	DF3DZ-3P-2V(50)
	4	12.5	6	HR2088-ND	.95	17.19	56.25	DF3DZ-4P-2V(50)
	5	14.5	8	HR2089-ND	1.06	19.25	63.00	DF3DZ-5P-2V(50)
	6	16.5	10	HR2090-ND	1.10	19.94	65.25	DF3DZ-6P-2V(50)
	7	18.5	12	HR2091-ND	1.14	20.63	67.50	DF3DZ-7P-2V(50)
	8	20.5	14	HR2092-ND	1.25	22.69	74.25	DF3DZ-8P-2V(50)
	9	22.5	16	HR2093-ND	1.44	26.13	85.50	DF3DZ-9P-2V(50)
	10	24.5	18	HR2094-ND	1.56	28.19	92.25	DF3DZ-10P-2V(50)
	11	26.5	20	HR2095-ND	1.71	30.94	101.25	DF3DZ-11P-2V(50)
	12	28.5	22	HR2096-ND	1.75	31.63	103.50	DF3DZ-12P-2V(50)
	13	30.5	24	HR2097-ND	1.86	33.69	110.25	DF3DZ-13P-2V(50)
	14	32.5	26	HR2098-ND	1.69	32.50	104.00	DF3DZ-14P-2V(50)
	15	34.5	28	HR2099-ND	1.79	34.38	110.00	DF3DZ-15P-2V(50)
Right Angle								
Tin Plating (post plated contact)								
3	6	14	10	H2109-ND	.58	8.70	27.26	DF3-6P-2DS
	7	16	12	H2110-ND	.48	8.59	28.13	DF3-7P-2DS
	9	20	16	H2112-ND	.75	11.18	35.02	DF3-9P-2DS
	10	22	18	H2113-ND	.60	10.79	35.33	DF3-10P-2DS
	11.25	24	20	H2114-ND	.70	12.65	41.40	DF3-11P-2DS
	13	28	24	H2310-ND	.76	13.75	45.00	DF3-13P-2DS
	14	30	26	H2311-ND	.80	14.44	47.25	DF3-14P-2DS
	15	32	28	H2312-ND	.82	14.92	48.83	DF3-15P-2DS

Fig.	No. of Contacts	Dimension (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Tin Plating (pre-plated contact)								
3	2	6	2	H3893-ND	.50	5.95	17.75	DF3A-2P-2DS
	3	8	4	H3894-ND	.42	6.23	19.51	DF3A-3P-2DS
	4	10	6	H3895-ND	.46	6.83	21.39	DF3A-4P-2DS
	5	12	8	H3896-ND	.55	8.18	25.62	DF3A-5P-2DS
	6	14	10	H3897-ND	.58	8.70	27.26	DF3A-6P-2DS
	7	16	12	H3898-ND	.63	9.38	29.38	DF3A-7P-2DS
	8	18	14	H3899-ND	.66	9.83	30.79	DF3A-8P-2DS
	9	20	16	H3900-ND	.75	11.18	35.02	DF3A-9P-2DS
	10	22	18	H3901-ND	.60	10.79	35.33	DF3A-10P-2DS
	11	24	20	H3902-ND	.70	12.65	41.40	DF3A-11P-2DS
	12	26	22	H3903-ND	.73	13.20	43.20	DF3A-12P-2DS
	13	28	24	H3904-ND	.76	13.75	45.00	DF3A-13P-2DS
	14	30	26	H3905-ND	.80	14.44	47.25	DF3A-14P-2DS
	15	32	28	H3906-ND	.82	14.92	48.83	DF3A-15P-2DS
Gold Plating								
3	2	6	2	H3907-ND	.56	8.33	26.09	DF3-2P-2DS(01)
	3	8	4	H3908-ND	.72	10.73	33.61	DF3-3P-2DS(01)
	4	10	6	H3909-ND	.65	11.69	38.25	DF3-4P-2DS(01)
	5	12	8	H3910-ND	.79	14.23	46.58	DF3-5P-2DS(01)
	6	14	10	H3911-ND	.89	16.16	52.88	DF3-6P-2DS(01)
	7	16	12	H3912-ND	1.00	18.08	59.18	DF3-7P-2DS(01)
	8	18	14	H3913-ND	1.10	19.87	65.03	DF3-8P-2DS(01)
	9	20	16	H3914-ND	1.24	22.41	73.35	DF3-9P-2DS(01)
	10	22	18	H3915-ND	1.35	24.34	79.65	DF3-10P-2DS(01)
	11	24	20	H3916-ND	1.52	27.57	90.23	DF3-11P-2DS(01)
	12	26	22	H3917-ND	1.63	29.49	96.53	DF3-12P-2DS(01)
Right Angle With Boss, Surface Mount								
3	13	28	24	H3918-ND	1.73	31.35	102.60	DF3-13P-2DS(01)
	14	30	26	H3919-ND	1.84	33.34	109.13	DF3-14P-2DS(01)
	15	32	28	H3920-ND	1.66	32.00	102.40	DF3-15P-2DS(01)
Tin Plating								
4	3	10.5	4	H2128-ND	.72	13.06	42.75	DF3-3P-2H(20)
	4	12.5	6	H2129-ND	.76	13.75	45.00	DF3-4P-2H(20)
	5	14.5	8	H2130-ND	.84	15.13	49.50	DF3-5P-2H(20)
	6	16.5	10	H2131-ND	.87	15.81	51.75	DF3-6P-2H(20)
	7	18.5	12	H2149-ND	.87	15.81	51.75	DF3-7P-2H(20)
	8	20.5	14	H2133-ND	.95	17.19	56.25	DF3-8P-2H(20)
	10	24.5	18	H2135-ND	1.06	19.25	63.00	DF3-10P-2H(20)
	11	26.5	20	H2136-ND	1.14	20.63	67.50	DF3-11P-2H(20)
	12	28.5	22	H2137-ND	1.14	20.63	67.50	DF3-12P-2H(20)
	13	30.5	24	H2316-ND	1.25	22.69	74.25	DF3-13P-2H(20)
Tin Plating — RoHS Compliant								
4	2	8.5	2	HR2010-ND	.72	13.06	42.75	DF3Z-2P-2H(20)
	3	10.5	4	HR2011-ND	.72	13.06	42.75	DF3Z-3P-2H(20)
	4	12.5	6	HR2012-ND	.76	13.75	45.00	DF3Z-4P-2H(20)
	5	14.5	8	HR2013-ND	.84	15.13	49.50	DF3Z-5P-2H(20)
	6	16.5	10	HR2014-ND	.87	15.81	51.75	DF3Z-6P-2H(20)
	7	18.5	12	HR2020-ND	.87	15.81	51.75	DF3Z-7P-2H(20)
	8	20.5	14	HR2015-ND	.95	17.19	56.25	DF3Z-8P-2H(20)
	10	24.5	18	HR2016-ND	1.06	19.25	63.00	DF3Z-10P-2H(20)
	11	26.5	20	HR2017-ND	1.10	19.94	65.25	DF3Z-11P-2H(20)
	12	28.5	22	HR2018-ND	1.10	19.94	65.25	DF3Z-12P-2H(20)
	13	30.5	24	HR2027-ND	1.22	22.00	72.00	DF3Z-13P-2H(20)
	14	32.5	26	HR2028-ND	1.25	22.69	74.25	DF3Z-14P-2H(20)
	15	34.5	28	HR2029-ND	1.33	24.06	78.75	DF3Z-15P-2H(20)
Gold Plating								
4	2	8.5	2	H3977-ND	1.95	37.50	120.00	DF3-2P-2H(50)
	3	10.5	4	H3978-ND	2.11	40.63	130.00	DF3-3P-2H(50)
	7	18.5	12	H3982-ND	2.93	56.25	180.00	DF3-7P-2H(50)
	8	20.5	14	H3983-ND	3.15	60.63	194.00	DF3-8P-2H(50)
	9	22.5	16	H3984-ND	3.05	59.06	189.00	DF3-9P-2H(50)
	10	24.5	18	H3985-ND	3.19	61.88	198.00	DF3-10P-2H(50)
	11	26.5	20	H3986-ND	3.36	65.25	208.80	DF3-11P-2H(50)
	12	28.5	22	H3987-ND	3.57	69.19	221.40	DF3-12P-2H(50)
	13	30.5	24	H3988-ND	3.10	60.19	192.60	DF3-13P-2H(50)
	15	34.5	28	H3990-ND	4.09	79.31	253.80	DF3-15P-2H(50)
Gold Plating — RoHS Compliant								
4	2	8.5	2	HR2100-ND	1.85	35.63	114.00	DF3Z-2P-2H(50)
	3	10.5	4	HR2101-ND	2.02	38.75	124.00	DF3Z-3P-2H(50)
	4	12.5	6	HR2102-ND	2.21	42.50	136.00	DF3Z-4P-2H(50)
	5	14.5	8	HR2103-ND	2.47	47.50	152.00	DF3Z-5P-2H(50)
	6	16.5	10	HR2104-ND	2.63	50.63	162.00	DF3Z-6P-2H(50)
	7	18.5	12	HR2105-ND	2.80	53.75	172.00	DF3Z-7P-2H(50)
	8	20.5	14	HR2106-ND	3.02	58.13	186.00	DF3Z-8P-2H(50)
	9	22.5	16	HR2107-ND	2.90	56.25	180.00	DF3Z-9P-2H(50)
	10	24.5	18	HR2108-ND	3.07	59.63	190.80	DF3Z-10P-2H(50)
	11	26.5	20	HR2109-ND	3.19	61.88	198.00	DF3Z-11P-2H(50)
	12	28.5	22	HR2110-ND	3.42	66.38	212.40	DF3Z-12P-2H(50)
	13	30.5	24	HR2111-ND	3.57	69.19	221.40	DF3Z-13P-2H(50)
	14	32.5	26	HR2112-ND	3.74	72.56	232.20	DF3Z-14P-2H(50)
	15	34.5	28	HR2113-ND	3.92	75.94	243.00	DF3-15P-2H(50)
Right Angle Without Boss, Surface Mount								
Tin Plating								
4	2	8.5	2	H3991-ND	.72	13.06	42.75	DF3D-2P-2H(20)
	4	12.5	6	H3993-ND	.84	15.13	49.50	DF3D-4P-2H(20)
	5	14.5	8	H3994-ND	.87	15.81	51.75	DF3D-5P-2H(20)
	6	16.5	10	H3995-ND	.95	17.19	56.25	DF3D-6P-2H(20)
	7	18.5	12	H3996-ND	.99	17.88	58.50	DF3D-7P-2H(20)
	8	20.5	14	H3997-ND	1.06	19.25	63.00	DF3D-8P-2H(20)
	9	22.5	16	H3998-ND	1.06	19.25	63.00	DF3D-9P-2H(20)
	10	24.5	18	H3999-ND	1.10	19.94	65.25	DF3D-10P-2H(20)
	11	26.5	20	H4000-ND	1.14	20.63	67.50	DF3D-11P-2H(20)
	12	28.5	22	H4001-ND	1.22	22.00	72.00	DF3D-12P-2H(20)
	13	30.5	24	H4002-ND	1.25	22.69	74.25	DF3D-13P-2H(20)
	14	32.5	26	H4003-ND	1.33	24.06	78.75	DF3D-14P-2H(20)
	15	34.5	28	H4004-ND	1.37	24.75	81.00	DF3D-15P-2H(20)
Tin Plating — RoHS Compliant								
4	2	8.5	2	HR2114-ND	.72	13.06	42.75	DF3DZ-2P-2H(20)

(Continued)

HRS HIROSE ELECTRIC CO.,LTD.

DF3 Series Single Row Connectors *(Cont.)*

2mm Pitch (interconnect wire available)

Fig.	No. of Contacts	Dimension (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
4	3	10.5	4	HR2115-ND	.76	13.75	45.00	DF3DZ-3P-2H(20)
	4	12.5	6	HR2116-ND	.84	15.13	49.50	DF3DZ-4P-2H(20)
	5	14.5	8	HR2117-ND	.87	15.81	51.75	DF3DZ-5P-2H(20)
	6	16.5	10	HR2118-ND	.95	17.19	56.25	DF3DZ-6P-2H(20)
	7	18.5	12	HR2119-ND	.99	17.88	58.50	DF3DZ-7P-2H(20)
	8	20.5	14	HR2120-ND	1.06	19.25	63.00	DF3DZ-8P-2H(20)
	9	22.5	16	HR2121-ND	1.06	19.25	63.00	DF3DZ-9P-2H(20)
	10	24.5	18	HR2122-ND	1.10	19.94	65.25	DF3DZ-10P-2H(20)
	11	26.5	20	HR2123-ND	1.14	20.63	67.50	DF3DZ-11P-2H(20)
	12	28.5	22	HR2124-ND	1.22	22.00	72.00	DF3DZ-12P-2H(20)
	13	30.5	24	HR2125-ND	1.25	22.69	74.25	DF3DZ-13P-2H(20)
	14	32.5	26	HR2126-ND	1.33	24.06	78.75	DF3DZ-14P-2H(20)
	15	34.5	28	HR2127-ND	1.37	24.75	81.00	DF3DZ-15P-2H(20)
Gold Plating								
4	2	8.5	2	H4005-ND	1.95	37.50	120.00	DF3D-2P-2H(50)
	3	10.5	4	H4006-ND	2.11	40.63	130.00	DF3D-3P-2H(50)
	5	14.5	8	H4008-ND	2.54	48.75	156.00	DF3D-5P-2H(50)
	6	16.5	10	H4009-ND	2.73	52.50	168.00	DF3D-6P-2H(50)
	7	18.5	12	H4010-ND	2.93	56.25	180.00	DF3D-7P-2H(50)
	8	20.5	14	H4011-ND	3.15	60.63	194.00	DF3D-8P-2H(50)
	9	22.5	16	H4012-ND	3.05	59.06	189.00	DF3D-9P-2H(50)
	10	24.5	18	H4013-ND	3.19	61.88	198.00	DF3D-10P-2H(50)
	11	26.5	20	H4014-ND	3.36	65.25	208.80	DF3D-11P-2H(50)
	12	28.5	22	H4015-ND	3.57	69.19	221.40	DF3D-12P-2H(50)
	13	30.5	24	H4016-ND	3.74	72.56	232.20	DF3D-13P-2H(50)
	14	32.5	26	H4017-ND	3.92	75.94	243.00	DF3D-14P-2H(50)
	15	34.5	28	H4018-ND	4.09	79.31	253.80	DF3D-15P-2H(50)
Gold Plating — RoHS Compliant								
4	2	8.5	2	HR2128-ND	1.85	35.63	114.00	DF3DZ-2P-2H(50)
	3	10.5	4	HR2129-ND	2.02	38.75	124.00	DF3DZ-3P-2H(50)
	4	12.5	6	HR2130-ND	2.21	42.50	136.00	DF3DZ-4P-2H(50)
	5	14.5	8	HR2131-ND	2.47	47.50	152.00	DF3DZ-5P-2H(50)
	6	16.5	10	HR2132-ND	2.63	50.63	162.00	DF3DZ-6P-2H(50)
	7	18.5	12	HR2133-ND	2.80	53.75	172.00	DF3DZ-7P-2H(50)
	8	20.5	14	HR2134-ND	3.02	58.13	186.00	DF3DZ-8P-2H(50)
	9	22.5	16	HR2135-ND	2.90	56.25	180.00	DF3DZ-9P-2H(50)
	10	24.5	18	HR2136-ND	3.07	59.63	190.80	DF3DZ-10P-2H(50)
	11	26.5	20	HR2137-ND	3.19	61.88	198.00	DF3DZ-11P-2H(50)
	12	28.5	22	HR2138-ND	3.42	66.38	212.40	DF3DZ-12P-2H(50)
	13	30.5	24	HR2139-ND	3.57	69.19	221.40	DF3DZ-13P-2H(50)
	14	32.5	26	HR2140-ND	3.74	72.56	232.20	DF3DZ-14P-2H(50)
	15	34.5	28	HR2141-ND	3.92	75.94	243.00	DF3DZ-15P-2H(50)
IN-LINE PLUG (order contacts seperately)								
5	2	6	2	H4035-ND	.38	4.52	13.50	DF3-2EP-2C
	3	8	4	H4036-ND	.43	5.11	15.25	DF3-3EP-2C
	4	10	6	H4037-ND	.47	5.61	16.75	DF3-4EP-2C
	5	12	8	H4038-ND	.51	6.11	18.25	DF3-5EP-2C
	6	14	10	H4039-ND	.55	6.62	19.75	DF3-6EP-2C
	7	16	12	H4040-ND	.45	6.68	20.92	DF3-7EP-2C
	8	18	14	H4041-ND	.48	7.20	22.56	DF3-8EP-2C
	9	20	16	H4042-ND	.50	7.50	23.50	DF3-9EP-2C
	10	22	18	H4043-ND	.55	8.18	25.62	DF3-10EP-2C
	11	24	20	H4045-ND	.56	8.40	26.32	DF3-11EP-2C
	12	26	22	H4046-ND	.61	9.08	28.44	DF3-12EP-2C
	13	28	24	H4047-ND	.64	9.53	29.85	DF3-13EP-2C
	14	30	26	H4048-ND	.67	9.98	31.26	DF3-14EP-2C
	15	32	28	H4049-ND	.71	10.58	33.14	DF3-15EP-2C
With Panel Lock								
6	2	11	2	H4051-ND	.45	5.36	16.00	DF3AA-2EP-2C
	3	13	4	H4052-ND	.51	6.11	18.25	DF3AA-3EP-2C
	4	15	6	H4053-ND	.55	6.62	19.75	DF3AA-4EP-2C
	5	17	8	H4054-ND	.44	6.53	20.45	DF3AA-5EP-2C
	6	19	10	H4055-ND	.47	7.05	22.09	DF3AA-6EP-2C
	7	21	12	H4056-ND	.51	7.58	23.74	DF3AA-7EP-2C
	8	23	14	H4057-ND	.54	8.10	25.38	DF3AA-8EP-2C
	9	25	16	H4058-ND	.58	8.63	27.03	DF3AA-9EP-2C
	10	27	18	H4059-ND	.61	9.15	28.67	DF3AA-10EP-2C
	11	29	20	H4060-ND	.65	9.75	30.55	DF3AA-11EP-2C
	12	31	22	H4061-ND	.69	10.28	32.20	DF3AA-12EP-2C
	13	33	24	H4062-ND	.72	10.80	33.84	DF3AA-13EP-2C
	14	35	26	H4063-ND	.57	10.38	33.98	DF3AA-14EP-2C
	15	37	28	H4065-ND	.60	10.93	35.78	DF3AA-15EP-2C
CRIMP SOCKET (order contacts seperately)								
7	2	6	2	H2083-ND	.23	2.38	5.89	DF3-2S-2C
	3	8	4	H2084-ND	.25	2.63	6.51	DF3-3S-2C
	4	10	6	H2085-ND	.26	2.75	6.82	DF3-4S-2C
	5	12	8	H2086-ND	.27	2.93	8.25	DF3-5S-2C
	6	14	10	H2087-ND	.29	3.12	8.80	DF3-6S-2C
	7	16	12	H2088-ND	.32	3.41	9.63	DF3-7S-2C
	8	18	14	H2089-ND	.34	3.71	10.45	DF3-8S-2C
	9	20	16	H2146-ND	.29	3.43	10.25	DF3-9S-2C
	10	22	18	H2091-ND	.30	3.60	10.75	DF3-10S-2C
	11	24	20	H2092-ND	.32	3.77	11.25	DF3-11S-2C
	12	26	22	H2093-ND	.33	3.94	11.75	DF3-12S-2C
	13	28	24	H2290-ND	.34	4.10	12.25	DF3-13S-2C
	14	30	26	H2291-ND	.36	4.27	12.75	DF3-14S-2C
	15	32	28	H2292-ND	.36	4.36	13.00	DF3-15S-2C
RECEPTACLE								
Tin Plating								
8	2	6	2	H3865-ND	.72	13.06	42.75	DF3-2S-2DSA(20)
	3	8	4	H3866-ND	.84	15.13	49.50	DF3-3S-2DSA(20)
	4	10	6	H3867-ND	.95	17.19	56.25	DF3-4S-2DSA(20)
	5	12	8	H3868-ND	1.06	19.25	63.00	DF3-5S-2DSA(20)
	6	14	10	H3869-ND	1.14	20.63	67.50	DF3-6S-2DSA(20)
	8	18	14	H3871-ND	1.37	24.75	81.00	DF3-8S-2DSA(20)
	9	20	16	H3872-ND	1.56	28.19	92.25	DF3-9S-2DSA(20)
8	10	22	18	H3873-ND	1.67	30.25	99.00	DF3-10S-2DSA(20)
	11	24	20	H3874-ND	1.75	31.63	103.50	DF3-11S-2DSA(20)
	12	26	22	H3875-ND	1.66	31.88	102.00	DF3-12S-2DSA(20)
	13	28	24	H3876-ND	1.69	32.50	104.00	DF3-13S-2DSA(20)
	14	30	26	H3877-ND	1.85	35.63	114.00	DF3-14S-2DSA(20)
	15	32	28	H3878-ND	2.31	44.38	142.00	DF3-15S-2DSA(20)
Tin Plating — RoHS Compliant								
8	2	6	2	HR2030-ND	.72	13.06	42.75	DF3-2S-2DSA(25)
	3	8	4	HR2031-ND	.84	15.13	49.50	DF3-3S-2DSA(25)
	4	10	6	HR2032-ND	.95	17.19	56.25	DF3-4S-2DSA(25)
	5	12	8	HR2033-ND	1.06	19.25	63.00	DF3-5S-2DSA(25)
	6	14	10	HR2034-ND	1.14	20.63	67.50	DF3-6S-2DSA(25)
	7	16	12	HR2035-ND	1.25	22.69	74.25	DF3-7S-2DSA(25)
	8	18	14	HR2036-ND	1.37	24.75	81.00	DF3-8S-2DSA(25)
	9	20	16	HR2037-ND	1.56	28.19	92.25	DF3-9S-2DSA(25)
	10	22	18	HR2038-ND	1.67	30.25	99.00	DF3-10S-2DSA(25)
	11	24	20	HR2039-ND	1.75	31.63	103.50	DF3-11S-2DSA(25)
	12	26	22	HR2040-ND	1.66	31.88	102.00	DF3-12S-2DSA(25)
	13	28	24	HR2041-ND	1.69	32.50	104.00	DF3-13S-2DSA(25)
	14	30	26	HR2042-ND	1.85	35.63	114.00	DF3-14S-2DSA(25)
	15	32	28	HR2043-ND	2.31	44.38	142.00	DF3-15S-2DSA(25)
Gold Plating								
8	2	6	2	H3879-ND	.84	15.13	49.50	DF3-2S-2DSA(50)
	3	8	4	H3880-ND	1.06	19.25	63.00	DF3-3S-2DSA(50)
	4	10	6	H3881-ND	1.33	24.06	78.75	DF3-4S-2DSA(50)
	5	12	8	H3882-ND	1.44	26.13	85.50	DF3-5S-2DSA(50)
	7	16	12	H3884-ND	1.82	33.00	108.00	DF3-7S-2DSA(50)
	8	18	14	H3885-ND	1.69	32.50	104.00	DF3-8S-2DSA(50)
	9	20	16	H3886-ND	1.89	36.25	116.00	DF3-9S-2DSA(50)
	10	22	18	H3887-ND	2.02	38.75	124.00	DF3-10S-2DSA(50)
	11	24	20	H3888-ND	2.21	42.50	136.00	DF3-11S-2DSA(50)
	12	26	22	H3889-ND	2.41	46.25	148.00	DF3-12S-2DSA(50)
	13	28	24	H3890-ND	2.54	48.75	156.00	DF3-13S-2DSA(50)
	14	30	26	H3891-ND	2.73	52.50	168.00	DF3-14S-2DSA(50)
	15	32	28	H3892-ND	2.90	56.25	180.00	DF3-15S-2DSA(50)
Gold Plating — RoHS Compliant								
8	2	6	2	HR2044-ND	.84	15.13	49.50	DF3-2S-2DSA(55)
	3	8	4	HR2045-ND	1.06	19.25	63.00	DF3-3S-2DSA(55)
	4	10	6	HR2046-ND	1.22	22.00	72.00	DF3-4S-2DSA(55)
	5	12	8	HR2047-ND	1.44	26.13	85.50	DF3-5S-2DSA(55)
	6	14	10	HR2048-ND	1.60	28.88	94.50	DF3-6S-2DSA(55)
	7	16	12	HR2049-ND	1.82	33.00	108.00	DF3-7S-2DSA(55)
	8	18	14	HR2050-ND	1.69	32.50	104.00	DF3-8S-2DSA(55)
	9	20	16	HR2051-ND	1.89	36.25	116.00	DF3-9S-2DSA(55)
	10	22	18	HR2052-ND	2.02	38.75	124.00	DF3-10S-2DSA(55)
	11	24	20	HR2053-ND	2.21	42.50	136.00	DF3-11S-2DSA(55)
	12	26	22	HR2054-ND	2.41	46.25	148.00	DF3-12S-2DSA(55)
	13	28	24	HR2055-ND	2.54	48.75	156.00	DF3-13S-2DSA(55)
	14	30	26	HR2056-ND	2.73	52.50	168.00	DF3-14S-2DSA(55)
	15	32	28	HR2057-ND	2.90	56.25	180.00	DF3-15S-2DSA(55)
ADAPTER IN-LINE WITH PANEL LOCK								
9	2	11	2	H4019-ND	.68	12.31	40.28	DF3-2EP-2A
	3	13	4	H4021-ND	.76	13.75	45.00	DF3-3EP-2A
	4	15	6	H4022-ND	.84	15.19	49.73	DF3-4EP-2A
	5	17	8	H4023-ND	.92	16.64	54.45	DF3-5EP-2A
	6	19	10	H4024-ND	1.01	18.36	60.08	DF3-6EP-2A
	7	21	12	H4025-ND	1.09	19.80	64.80	DF3-7EP-2A
	8	23	14	H4026-ND	1.17	21.18	69.30	DF3-8EP-2A
	9	25	16	H4027-ND	1.25	22.62	74.03	DF3-9EP-2A
	10	27	18	H4028-ND	1.33	24.13	78.98	DF3-10EP-2A
	11	29	20	H4029-ND	1.41	25.58	83.70	DF3-11EP-2A
	12	31	22	H4030-ND	1.50	27.23	89.10	DF3-12EP-2A
	13	33	24	H4031-ND	1.59	28.74	94.05	DF3-13EP-2A
	14	35	26	H4033-ND	1.66	30.11	98.55	DF3-14EP-2A
	15	37	28	H4034-ND	1.74	31.56	103.28	DF3-15EP-2A

Crimping Contacts

AWG	Digi-Key Part No.	*Bulk* Pricing 100	Hirose Part No.	*Cut Tape** Pricing		*T & R†* Pricing 10,000	Hirose Part No.
				100	500		
Socket Contacts - Fig. 10A							
Tin Plating							
22	H4066-ND	7.44	DF3-22SC	3.72	12.60	15.00/M	DF3-22SCF
24-28	H1500-ND	6.51	DF3-2428SC	2.17	7.35	9.00/M	DF3-2428SCF
Gold Plating							
24-28	H1501-ND	10.18	DF3-2428SCC	7.15	24.70	33.00/M	DF3-2428SCFC
Plug Contacts - Fig. 10B							
Tin Plating							
24-28	H1502-ND	7.15	DF3-EP2428PC	3.72	12.60	15.00/M	DF3-EP2428PCF
Gold Plating							
24-28	H1503-ND	19.50	DF3-EP2428PCA	10.18	35.15	46.00/M	DF3-EP2428PCFA

* For Cut Tape, add CT to the Digi-Key Part No. (H1502CT-ND)

† For Tape and Reel, add TR to the Digi-Key Part No. (H1502TR-ND)

Tools

AWG	Description	Digi-Key Part No.	Price Each	Hirose Part No.
22	Hand Crimp Tool for Socket, with Non-Removeable Die	H4454-ND	806.00	DF3-TA22-HC
24-28	Hand Crimp Tool for Socket, with Non-Removeable Die	H9997-ND	793.00	DF3-TA2428HC
24-28	Hand Crimp Tool for Pin, with Non-Removeable Die	H2308-ND	793.00	DF3EP-TA2428HC
24-28	Hand Crimp Tool with Die Set	H9923-ND	571.90	DF3-TA2428HC/US
—	Hand Tool without Die Set	H9926-ND	332.50	HRUS-HT-1
24-28	Die Set for H9926-ND	H9927-ND	239.40	DF3-TA2428HC/US-DS

HRS HIROSE ELECTRIC CO.,LTD.

DF11 Series Dual Row Connectors

2mm Pitch *(Interconnect wire available)*

Specifications:

- Current Capacity: 3A with 24AWG cable
- Rated Voltage: 250VAC
- Insulation Resistance: Minimum 1000MΩ at 500VDC
- Withstand Voltage: 650VAC
- Contact Resistance: Maximum 30mΩ at 0.1ADC

Fig. 1

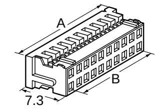

Fig. 2

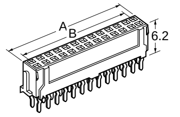

Fig. 3 — Surface Mount

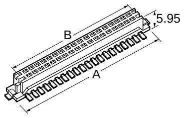

Fig. 4

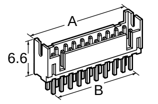

Fig. 5

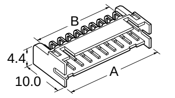

Fig. 6 — Surface Mount

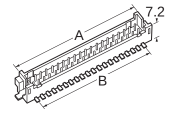

Fig. 7

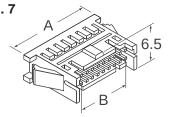

Fig. 8

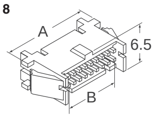

Fig. 9 ***NEW!***

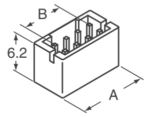

Fig. 10 — Socket

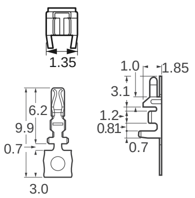

Fig. 11 — Pin

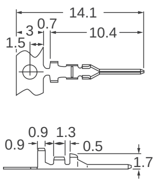

A.

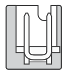

B.

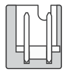

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Dual Row Crimp Socket								
1	4	6.0	2.0	H2019-ND	.28	3.35	10.00	DF11-4DS-2C
	6	8.0	4.0	H2021-ND	.30	3.60	10.75	DF11-6DS-2C
	8	10.0	6.0	H2022-ND	.36	4.27	12.75	DF11-8DS-2C
	10	12.0	8.0	H2023-ND	.36	4.36	13.00	DF11-10DS-2C
	12	14.0	10.0	H2024-ND	.39	4.69	14.00	DF11-12DS-2C
	14	16.0	12.0	H2140-ND	.41	4.94	14.75	DF11-14DS-2C
	16	18.0	14.0	H2025-ND	.44	5.28	15.75	DF11-16DS-2C
	18	20.0	16.0	H2026-ND	.46	5.53	16.50	DF11-18DS-2C
	20	22.0	18.0	H2027-ND	.48	5.78	17.25	DF11-20DS-2C
	22	24.0	20.0	H2028-ND	.51	6.11	18.25	DF11-22DS-2C
	24	26.0	22.0	H2029-ND	.54	6.45	19.25	DF11-24DS-2C
	26	28.0	24.0	H2261-ND	.41	6.15	19.27	DF11-26DS-2C
	28	30.0	26.0	H2262-ND	.44	6.53	20.45	DF11-28DS-2C
	30	32.0	28.0	H2263-ND	.47	7.05	22.09	DF11-30DS-2C
	32	34.0	30.0	H2264-ND	.52	7.80	24.44	DF11-32DS-2C
Vertical PCB Socket, Tin								
2	6	8.0	4.0	H2274-ND	1.00	18.01	58.95	DF11-6DS-2DSA
	8	10.0	6.0	H2030-ND	1.07	19.39	63.45	DF11-8DS-2DSA
	12	14.0	10.0	H2141-ND	1.27	22.89	74.93	DF11-12DS-2DSA
	22	24.0	20.0	H2037-ND	1.83	33.14	108.45	DF11-22DS-2DSA
	24	26.0	22.0	H2038-ND	1.65	31.75	101.60	DF11-24DS-2DSA
	30	32.0	28.0	H2267-ND	1.90	36.63	117.20	DF11-30DS-2DSA
NEW! Vertical PCB Socket, Tin — RoHS Compliant NEW!								
2	6	8.0	4.0	H10169-ND	1.00	18.01	58.95	DF11-6DS-2DSA(05)
	8	10.0	6.0	H10170-ND	1.07	19.39	63.45	DF11-8DS-2DSA(05)
	10	12.0	8.0	H10171-ND	1.17	21.18	69.30	DF11-10DS-2DSA(05)
	12	14.0	10.0	H10172-ND	1.27	22.89	74.93	DF11-12DS-2DSA(05)
	14	16.0	12.0	H10173-ND	1.36	24.68	80.78	DF11-14DS-2DSA(05)
	16	18.0	14.0	H10174-ND	1.50	27.09	88.65	DF11-16DS-2DSA(05)
	18	20.0	16.0	H10175-ND	1.59	28.81	94.28	DF11-18DS-2DSA(05)
	20	22.0	18.0	H10176-ND	1.74	31.42	102.83	DF11-20DS-2DSA(05)
	22	24.0	20.0	H10177-ND	1.83	33.14	108.45	DF11-22DS-2DSA(05)
	24	26.0	22.0	H10178-ND	1.65	31.75	101.60	DF11-24DS-2DSA(05)
	26	28.0	24.0	H10179-ND	1.74	33.38	106.80	DF11-26DS-2DSA(05)
	28	30.0	26.0	H10180-ND	1.82	35.00	112.00	DF11-28DS-2DSA(05)
	30	32.0	28.0	H10181-ND	1.90	36.63	117.20	DF11-30DS-2DSA(05)
	32	34.0	30.0	H10182-ND	1.99	38.25	122.40	DF11-32DS-2DSA(05)
Vertical PCB Socket, Gold								
2	8	10.0	6.0	H2821-ND	1.86	33.62	110.03	DF11-8DS-2DSA(01)
	10	12.0	8.0	H2822-ND	1.84	35.44	113.40	DF11-10DS-2DSA(01)
	12	14.0	10.0	H2823-ND	2.09	40.25	128.80	DF11-12DS-2DSA(01)
	14	16.0	12.0	H2824-ND	2.34	45.06	144.20	DF11-14DS-2DSA(01)
	16	18.0	14.0	H2825-ND	2.62	50.44	161.40	DF11-16DS-2DSA(01)
	18	20.0	16.0	H2826-ND	2.88	55.31	177.00	DF11-18DS-2DSA(01)
	20	22.0	18.0	H2827-ND	3.17	60.88	194.80	DF11-20DS-2DSA(01)
	22	24.0	20.0	H2828-ND	3.05	59.06	189.00	DF11-22DS-2DSA(01)
2	24	26.0	22.0	H2829-ND	3.28	63.56	203.40	DF11-24DS-2DSA(01)
	26	28.0	24.0	H2830-ND	3.51	68.06	217.80	DF11-26DS-2DSA(01)
	28	30.0	26.0	H2831-ND	3.71	72.00	230.40	DF11-28DS-2DSA(01)
	30	32.0	28.0	H2832-ND	3.94	76.50	244.80	DF11-30DS-2DSA(01)
	32	34.0	30.0	H2833-ND	4.18	81.00	259.20	DF11-32DS-2DSA(01)
NEW! Vertical PCB Socket, Gold — RoHS Compliant NEW!								
2	6	8.0	4.0	H10183-ND	1.58	28.67	93.83	DF11-6DS-2DSA(06)
	8	10.0	6.0	H10184-ND	1.86	33.62	110.03	DF11-8DS-2DSA(06)
	10	12.0	8.0	H10185-ND	1.84	35.44	113.40	DF11-10DS-2DSA(06)
	12	14.0	10.0	H10186-ND	2.09	40.25	128.80	DF11-12DS-2DSA(06)
	14	16.0	12.0	H10187-ND	2.34	45.06	144.20	DF11-14DS-2DSA(06)
	16	18.0	14.0	H10188-ND	2.62	50.44	161.40	DF11-16DS-2DSA(06)
	18	20.0	16.0	H10189-ND	2.88	55.31	177.00	DF11-18DS-2DSA(06)
	20	22.0	18.0	H10190-ND	3.17	60.88	194.80	DF11-20DS-2DSA(06)
	22	24.0	20.0	H10191-ND	3.05	59.12	189.18	DF11-22DS-2DSA(06)
	24	26.0	22.0	H10192-ND	3.27	63.51	203.22	DF11-24DS-2DSA(06)
	26	28.0	24.0	H10193-ND	3.50	67.89	217.26	DF11-26DS-2DSA(06)
	28	30.0	26.0	H10194-ND	3.72	72.23	231.12	DF11-28DS-2DSA(06)
	30	32.0	28.0	H10195-ND	3.95	76.61	245.16	DF11-30DS-2DSA(06)
	32	34.0	30.0	H10196-ND	4.18	81.00	259.20	DF11-32DS-2DSA(06)
Surface Mount Vertical Socket, Tin								
3	4	8.5	2.0	H2039-ND	1.10	19.94	65.25	DF11-4DS-2V(20)
	8	12.5	6.0	H2041-ND	1.48	26.81	87.75	DF11-8DS-2V(20)
	14	18.5	12.0	H2142-ND	1.86	33.69	110.25	DF11-14DS-2V(20)
	16	20.5	14.0	H2045-ND	1.76	33.75	108.00	DF11-16DS-2V(20)
	18	22.5	16.0	H2046-ND	1.89	36.25	116.00	DF11-18DS-2V(20)
	20	24.5	18.0	H2047-ND	1.89	36.25	116.00	DF11-20DS-2V(20)
	22	26.5	20.0	H2048-ND	2.21	42.50	136.00	DF11-22DS-2V(20)
	26	30.5	24.0	H2270-ND	2.54	48.75	156.00	DF11-26DS-2V(20)
	28	32.5	26.0	H2271-ND	2.70	51.88	166.00	DF11-28DS-2V(20)
	30	34.5	28.0	H2272-ND	3.12	60.00	192.00	DF11-30DS-2V(20)
	32	36.5	30.0	H2273-ND	2.96	56.88	182.00	DF11-32DS-2V(20)
NEW! Surface Mount Vertical Socket, Tin — RoHS Compliant NEW!								
3	4	8.5	2.0	H10197-ND	1.10	19.94	65.25	DF11Z-4DS-2V(20)
	6	10.5	4.0	H10198-ND	1.25	22.69	74.25	DF11Z-6DS-2V(20)
	8	12.5	6.0	H10199-ND	1.44	26.13	85.50	DF11Z-8DS-2V(20)
	10	14.5	8.0	H10200-ND	1.56	28.19	92.25	DF11Z-10DS-2V(20)
	12	16.5	10.0	H10201-ND	1.71	30.94	101.25	DF11Z-12DS-2V(20)
	14	18.5	12.0	H10202-ND	1.82	33.00	108.00	DF11Z-14DS-2V(20)
	16	20.5	14.0	H10203-ND	1.69	32.50	104.00	DF11Z-16DS-2V(20)
	18	22.5	16.0	H10204-ND	1.79	34.38	110.00	DF11Z-18DS-2V(20)
	20	24.5	18.0	H10205-ND	1.89	36.25	116.00	DF11Z-20DS-2V(20)
	22	26.5	20.0	H10206-ND	2.11	40.63	130.00	DF11Z-22DS-2V(20)
	24	28.5	22.0	H10207-ND	2.21	42.50	136.00	DF11Z-24DS-2V(20)
	26	30.5	24.0	H10208-ND	2.47	47.50	152.00	DF11Z-26DS-2V(20)
	28	32.5	26.0	H10209-ND	2.60	50.00	160.00	DF11Z-28DS-2V(20)
	30	34.5	28.0	H10210-ND	2.73	52.50	168.00	DF11Z-30DS-2V(20)
	32	36.5	30.0	H10211-ND	2.83	54.38	174.00	DF11Z-32DS-2V(20)
	40	44.5	38.0	H10212-ND	3.16	61.31	196.20	DF11Z-40DS-2V(20)
Surface Mount Vertical Socket, Gold								
3	4	8.5	2.0	H2834-ND	1.44	26.13	85.50	DF11-4DS-2V(50)
	6	10.5	4.0	H2835-ND	1.71	30.94	101.25	DF11-6DS-2V(50)
	8	12.5	6.0	H2836-ND	1.76	33.75	108.00	DF11-8DS-2V(50)
	10	14.5	8.0	H2837-ND	1.85	35.63	114.00	DF11-10DS-2V(50)
	12	16.5	10.0	H2838-ND	2.21	42.50	136.00	DF11-12DS-2V(50)
	14	18.5	12.0	H2839-ND	2.47	47.50	152.00	DF11-14DS-2V(50)
	18	22.5	16.0	H2841-ND	2.93	56.25	180.00	DF11-18DS-2V(50)
	22	26.5	20.0	H2843-ND	3.10	60.19	192.60	DF11-22DS-2V(50)
	24	28.5	22.0	H2844-ND	3.19	61.88	198.00	DF11-24DS-2V(50)
	26	30.5	24.0	H2845-ND	3.63	70.31	225.00	DF11-26DS-2V(50)
	28	32.5	26.0	H2846-ND	3.83	74.25	237.60	DF11-28DS-2V(50)
	30	34.5	28.0	H2847-ND	3.97	77.06	246.60	DF11-30DS-2V(50)
	32	36.5	30.0	H2848-ND	4.29	83.25	266.40	DF11-32DS-2V(50)
	40	44.5	38.0	H2849-ND	5.34	103.50	331.20	DF11-40DS-2V(50)
NEW! Surface Mount Vertical Socket, Gold — RoHS Compliant NEW!								
3	4	8.5	2.0	H10213-ND	1.37	24.75	81.00	DF11Z-4DS-2V(50)
	6	10.5	4.0	H10214-ND	1.67	30.25	99.00	DF11Z-6DS-2V(50)
	8	12.5	6.0	H10215-ND	1.69	32.50	104.00	DF11Z-8DS-2V(50)
	10	14.5	8.0	H10216-ND	1.85	35.63	114.00	DF11Z-10DS-2V(50)
	12	16.5	10.0	H10217-ND	2.11	40.63	130.00	DF11Z-12DS-2V(50)
	14	18.5	12.0	H10218-ND	2.37	45.63	146.00	DF11Z-14DS-2V(50)
	16	20.5	14.0	H10219-ND	2.60	50.00	160.00	DF11Z-16DS-2V(50)
	18	22.5	16.0	H10220-ND	2.80	53.75	172.00	DF11Z-18DS-2V(50)
	20	26.5	20.0	H10221-ND	3.02	58.13	186.00	DF11Z-20DS-2V(50)
	22	26.5	20.0	H10222-ND	2.99	57.94	185.40	DF11Z-22DS-2V(50)
	24	28.5	22.0	H10223-ND	3.19	61.88	198.00	DF11Z-24DS-2V(50)
	26	30.5	24.0	H10224-ND	3.45	66.94	214.20	DF11Z-26DS-2V(50)
	28	32.5	26.0	H10225-ND	3.65	70.88	226.80	DF11Z-28DS-2V(50)
	30	34.5	28.0	H10226-ND	3.92	75.94	243.00	DF11Z-30DS-2V(50)
	32	36.5	30.0	H10227-ND	4.09	79.31	253.80	DF11Z-32DS-2V(50)
	40	44.5	38.0	H10228-ND	5.10	99.00	316.80	DF11Z-40DS-2V(50)
Vertical Protected Header, Tin								
4	4	6.0	2.0	H2143-ND	.57	10.31	33.75	DF11-4DP-2DSA(20)
	6	8.0	4.0	H2051-ND	.65	11.69	38.25	DF11-6DP-2DSA(20)
	8	10.0	6.0	H2052-ND	.72	13.06	42.75	DF11-8DP-2DSA(20)
	10	12.0	8.0	H2053-ND	.76	13.75	45.00	DF11-10DP-2DSA(20)
	12	14.0	10.0	H2054-ND	.87	15.81	51.75	DF11-12DP-2DSA(20)
	14	16.0	12.0	H2055-ND	.95	17.19	56.25	DF11-14DP-2DSA(20)
	16	18.0	14.0	H2056-ND	1.06	19.25	63.00	DF11-16DP-2DSA(20)
	18	20.0	16.0	H2057-ND	1.14	20.63	67.50	DF11-18DP-2DSA(20)
	20	22.0	18.0	H2058-ND	1.22	22.00	72.00	DF11-20DP-2DSA(20)
	24	26.0	22.0	H2060-ND	1.44	26.13	85.50	DF11-24DP-2DSA(20)
	26	28.0	24.0	H2275-ND	1.56	28.19	92.25	DF11-26DP-2DSA(20)
	28	30.0	26.0	H2276-ND	1.60	28.88	94.50	DF11-28DP-2DSA(20)
	30	32.0	28.0	H2277-ND	1.60	28.88	94.50	DF11-30DP-2DSA(20)
	32	34.0	30.0	H2278-ND	1.75	31.63	103.50	DF11-32DP-2DSA(20)
NEW! Vertical Protected Header, Tin — RoHS Compliant NEW!								
4	4	6.0	2.0	H10229-ND	.57	10.31	33.75	DF11-4DP-2DSA(24)
	6	8.0	4.0	H10230-ND	.65	11.69	38.25	DF11-6DP-2DSA(24)
	8	10.0	6.0	H10231-ND	.72	13.06	42.75	DF11-8DP-2DSA(24)
	10	12.0	8.0	H10232-ND	.76	13.75	45.00	DF11-10DP-2DSA(24)

(Continued)

DF11 Series Dual Row Connectors *(Cont.)*

2mm Pitch *(Interconnect wire available)*

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
4	12	14.0	10.0	H10233-ND	.87	15.81	51.75	DF11-12DP-2DSA(24)
	14	16.0	12.0	H10234-ND	.95	17.19	56.25	DF11-14DP-2DSA(24)
	16	18.0	14.0	H10235-ND	1.06	19.25	63.00	DF11-16DP-2DSA(24)
	18	20.0	16.0	H10236-ND	1.10	19.94	65.25	DF11-18DP-2DSA(24)
	20	22.0	18.0	H10237-ND	1.22	22.00	72.00	DF11-20DP-2DSA(24)
	22	24.0	20.0	H10238-ND	1.33	24.06	78.75	DF11-22DP-2DSA(24)
	24	26.0	22.0	H10239-ND	1.37	24.75	81.00	DF11-24DP-2DSA(24)
	26	28.0	24.0	H10240-ND	1.48	26.81	87.75	DF11-26DP-2DSA(24)
	28	30.0	26.0	H10241-ND	1.56	28.19	92.25	DF11-28DP-2DSA(24)
	30	32.0	28.0	H10242-ND	1.60	28.88	94.50	DF11-30DP-2DSA(24)
	32	34.0	30.0	H10243-ND	1.71	30.94	101.25	DF11-32DP-2DSA(24)
Vertical Protected Header, Gold								
4	4	6.0	2.0	H2850-ND	.70	12.65	41.40	DF11-4DP-2DSA(01)
	6	8.0	4.0	H2851-ND	.88	15.95	52.20	DF11-6DP-2DSA(01)
	8	10.0	6.0	H2852-ND	1.06	19.25	63.00	DF11-8DP-2DSA(01)
	10	12.0	8.0	H2853-ND	1.26	22.76	74.48	DF11-10DP-2DSA(01)
	12	14.0	10.0	H2854-ND	1.46	26.40	86.40	DF11-12DP-2DSA(01)
	14	16.0	12.0	H2855-ND	1.64	29.70	97.20	DF11-14DP-2DSA(01)
	16	18.0	14.0	H2856-ND	1.85	33.48	109.58	DF11-16DP-2DSA(01)
	18	20.0	16.0	H2857-ND	1.74	33.50	107.20	DF11-18DP-2DSA(01)
	20	22.0	18.0	H2858-ND	1.92	37.00	118.40	DF11-20DP-2DSA(01)
	22	24.0	20.0	H2859-ND	2.12	40.75	130.40	DF11-22DP-2DSA(01)
	24	26.0	22.0	H2860-ND	2.28	43.81	140.20	DF11-24DP-2DSA(01)
	26	28.0	24.0	H2861-ND	2.44	46.88	150.00	DF11-26DP-2DSA(01)
	28	30.0	26.0	H2862-ND	2.59	49.88	159.60	DF11-28DP-2DSA(01)
	30	32.0	28.0	H2863-ND	2.76	53.00	169.60	DF11-30DP-2DSA(01)
	32	34.0	30.0	H2864-ND	2.92	56.06	179.40	DF11-32DP-2DSA(01)
Right Angle Protected Header, Tin								
5	4	6.0	2.0	H2061-ND	.60	9.00	28.20	DF11-4DP-2DS(22)
	6	8.0	4.0	H2062-ND	.65	9.75	30.55	DF11-6DP-2DS(22)
	12	14.0	10.0	H2065-ND	.72	13.06	42.75	DF11-12DP-2DS(22)
	14	16.0	12.0	H2066-ND	.76	13.75	45.00	DF11-14DP-2DS(22)
	18	20.0	16.0	H2068-ND	1.06	19.25	63.00	DF11-18DP-2DS(22)
	22	24.0	20.0	H2070-ND	1.25	22.69	74.25	DF11-22DP-2DS(22)
	24	26.0	22.0	H2071-ND	1.37	24.75	81.00	DF11-24DP-2DS(22)
	26	28.0	24.0	H2280-ND	1.44	26.13	85.50	DF11-26DP-2DS(22)
	28	30.0	26.0	H2281-ND	1.48	26.81	87.75	DF11-28DP-2DS(22)
	30	32.0	28.0	H2282-ND	1.56	28.19	92.25	DF11-30DP-2DS(22)
NEW! Right Angle Protected Header, Tin — RoHS Compliant NEW!								
5	4	6.0	2.0	H10244-ND	.60	9.00	28.20	DF11-4DP-2DS(24)
	6	8.0	4.0	H10245-ND	.57	10.31	33.75	DF11-6DP-2DS(24)
	8	10.0	6.0	H10246-ND	.61	11.00	36.00	DF11-8DP-2DS(24)
	10	12.0	8.0	H10247-ND	.76	13.75	45.00	DF11-10DP-2DS(24)
	12	14.0	10.0	H10248-ND	.84	15.13	49.50	DF11-12DP-2DS(24)
	14	16.0	12.0	H10249-ND	.95	17.19	56.25	DF11-14DP-2DS(24)
	16	18.0	14.0	H10250-ND	1.14	20.63	67.50	DF11-16DP-2DS(24)
	18	20.0	16.0	H10251-ND	1.22	22.00	72.00	DF11-18DP-2DS(24)
	20	22.0	18.0	H10252-ND	1.33	24.06	78.75	DF11-20DP-2DS(24)
	22	24.0	20.0	H10253-ND	1.44	26.13	85.50	DF11-22DP-2DS(24)
	24	26.0	22.0	H10254-ND	1.60	28.88	94.50	DF11-24DP-2DS(24)
	26	28.0	24.0	H10255-ND	1.67	30.25	99.00	DF11-26DP-2DS(24)
	28	30.0	26.0	H10256-ND	1.75	31.63	103.50	DF11-28DP-2DS(24)
	30	32.0	28.0	H10257-ND	1.86	33.69	110.25	DF11-30DP-2DS(24)
	32	32.0	28.0	H10258-ND	1.69	32.50	104.00	DF11-32DP-2DS(24)
Right Angle Protected Header, Gold								
5	4	6.0	2.0	H2865-ND	.95	17.19	56.25	DF11-4DP-2DS(52)
	6	8.0	4.0	H2866-ND	1.22	22.00	72.00	DF11-6DP-2DS(52)
	8	10.0	6.0	H2867-ND	1.44	26.13	85.50	DF11-8DP-2DS(52)
	10	12.0	8.0	H2868-ND	1.71	30.94	101.25	DF11-10DP-2DS(52)
	12	14.0	10.0	H2869-ND	1.69	32.50	104.00	DF11-12DP-2DS(52)
	14	16.0	12.0	H2870-ND	1.95	37.50	120.00	DF11-14DP-2DS(52)
	16	18.0	14.0	H2871-ND	2.18	41.88	134.00	DF11-16DP-2DS(52)
	18	20.0	16.0	H2872-ND	2.37	45.63	146.00	DF11-18DP-2DS(52)
	20	22.0	18.0	H2873-ND	2.60	50.00	160.00	DF11-20DP-2DS(52)
	22	24.0	20.0	H2874-ND	2.89	55.63	178.00	DF11-22DP-2DS(52)
	24	26.0	22.0	H2875-ND	3.12	60.00	192.00	DF11-24DP-2DS(52)
	26	28.0	24.0	H2876-ND	2.99	57.94	185.40	DF11-26DP-2DS(52)
	28	30.0	26.0	H2877-ND	3.16	61.31	196.20	DF11-28DP-2DS(52)
	30	32.0	28.0	H2878-ND	3.36	65.25	208.80	DF11-30DP-2DS(52)
	32	34.0	30.0	H2879-ND	3.57	69.19	221.40	DF11-32DP-2DS(52)
Surface Mount Protected Header, Tin								
6	28	32.5	26.0	H2286-ND	2.11	40.63	130.00	DF11-28DP-2V(20)
Surface Mount Protected Header, Tin								
6	4	8.5	2.0	H2881-ND	1.06	19.25	63.00	DF11G-4DP-2V(20)
	8	12.5	6.0	H2883-ND	1.22	22.00	72.00	DF11G-8DP-2V(20)
	10	14.5	8.0	H2884-ND	1.33	24.06	78.75	DF11G-10DP-2V(20)
	14	18.5	12.0	H2886-ND	1.60	28.88	94.50	DF11G-14DP-2V(20)
	16	20.5	14.0	H2887-ND	1.71	30.94	101.25	DF11G-16DP-2V(20)
	18	22.5	16.0	H2888-ND	1.75	31.63	103.50	DF11G-18DP-2V(20)
	20	24.5	18.0	H2889-ND	1.82	33.00	108.00	DF11G-20DP-2V(20)
	22	26.5	20.0	H2890-ND	3.22	61.88	198.00	DF11G-22DP-2V(20)
	26	30.5	24.0	H2892-ND	1.89	36.25	116.00	DF11G-26DP-2V(20)
	28	32.5	26.0	H2893-ND	2.11	40.63	130.00	DF11G-28DP-2V(20)
	32	36.5	30.0	H2895-ND	2.28	43.75	140.00	DF11G-32DP-2V(20)
NEW! Surface Mount Protected Header, Tin — RoHS Compliant NEW!								
6	4	8.5	2.0	H10259-ND	1.06	19.25	63.00	DF11GZ-4DP-2V(20)
	6	10.5	4.0	H10260-ND	1.10	19.94	65.25	DF11GZ-6DP-2V(20)
	8	12.5	6.0	H10261-ND	1.22	22.00	72.00	DF11GZ-8DP-2V(20)
	10	14.5	8.0	H10262-ND	1.33	24.06	78.75	DF11GZ-10DP-2V(20)
	12	16.5	10.0	H10263-ND	1.44	26.13	85.50	DF11GZ-12DP-2V(20)
	14	18.5	12.0	H10264-ND	1.56	28.19	92.25	DF11GZ-14DP-2V(20)
	16	20.5	14.0	H10265-ND	1.67	30.25	99.00	DF11GZ-16DP-2V(20)
	18	22.5	16.0	H10266-ND	1.71	30.94	101.25	DF11GZ-18DP-2V(20)
	20	24.5	18.0	H10267-ND	1.82	33.00	108.00	DF11GZ-20DP-2V(20)
	22	26.5	20.0	H10268-ND	1.69	32.50	104.00	DF11GZ-22DP-2V(20)
	24	28.5	22.0	H10269-ND	1.79	34.38	110.00	DF11GZ-24DP-2V(20)
	26	30.5	24.0	H10270-ND	1.89	36.25	116.00	DF11GZ-26DP-2V(20)
	28	32.5	26.0	H10271-ND	2.02	38.75	124.00	DF11GZ-28DP-2V(20)
	30	34.5	30.0	H10272-ND	2.11	40.63	130.00	DF11GZ-30DP-2V(20)
6	32	36.5	30.0	H10273-ND	2.18	41.88	134.00	DF11GZ-32DP-2V(20)
	40	44.5	38.0	H10274-ND	2.70	51.88	166.00	DF11GZ-40DP-2V(20)
Surface Mount Protected Header, Gold								
6	4	8.5	2.0	H2897-ND	1.48	26.81	87.75	DF11G-4DP-2V(50)
	6	10.5	4.0	H2898-ND	1.75	31.63	103.50	DF11G-6DP-2V(50)
	8	12.5	6.0	H2899-ND	1.69	32.50	104.00	DF11G-8DP-2V(50)
	10	14.5	8.0	H2900-ND	1.89	36.25	116.00	DF11G-10DP-2V(50)
	12	16.5	10.0	H2901-ND	2.08	40.00	128.00	DF11G-12DP-2V(50)
	14	18.5	12.0	H2902-ND	2.31	44.38	142.00	DF11G-14DP-2V(50)
	16	20.5	14.0	H2903-ND	2.63	50.63	162.00	DF11G-16DP-2V(50)
	18	22.5	16.0	H2904-ND	2.70	51.88	166.00	DF11G-18DP-2V(50)
	20	24.5	18.0	H2905-ND	3.02	58.13	186.00	DF11G-20DP-2V(50)
	22	26.5	20.0	H2906-ND	3.22	61.88	198.00	DF11G-22DP-2V(50)
	24	28.5	22.0	H2907-ND	3.07	59.63	190.80	DF11G-24DP-2V(50)
	26	30.5	24.0	H2908-ND	3.34	64.69	207.00	DF11G-26DP-2V(50)
	28	32.5	26.0	H2909-ND	3.54	68.63	219.60	DF11G-28DP-2V(50)
	30	34.5	28.0	H2910-ND	3.92	75.94	243.00	DF11G-30DP-2V(50)
	32	36.5	30.0	H2911-ND	3.92	75.94	243.00	DF11G-32DP-2V(50)
	40	44.5	38.0	H2912-ND	4.81	93.38	298.80	DF11G-40DP-2V(50)
Connector Plug Housing								
7	4	11.0	2.0	H2913-ND	.51	7.58	23.74	DF11-4DEP-2C
	6	13.0	4.0	H2914-ND	.53	7.88	24.68	DF11-6DEP-2C
	8	15.0	6.0	H2915-ND	.55	8.18	25.62	DF11-8DEP-2C
	10	17.0	8.0	H2916-ND	.57	8.48	26.56	DF11-10DEP-2C
	12	19.0	10.0	H2917-ND	.59	8.85	27.73	DF11-12DEP-2C
	14	21.0	12.0	H2918-ND	.61	9.15	28.67	DF11-14DEP-2C
	16	23.0	14.0	H2919-ND	.64	9.53	29.85	DF11-16DEP-2C
	18	25.0	16.0	H2920-ND	.65	9.75	30.55	DF11-18DEP-2C
	20	27.0	18.0	H2921-ND	.68	10.13	31.73	DF11-20DEP-2C
	22	29.0	20.0	H2922-ND	.70	10.43	32.67	DF11-22DEP-2C
	24	31.0	22.0	H2923-ND	.73	10.88	34.08	DF11-24DEP-2C
	26	33.0	24.0	H2924-ND	.75	11.18	35.02	DF11-26DEP-2C
	28	35.0	26.0	H2925-ND	.58	10.52	34.43	DF11-28DEP-2C
	30	37.0	28.0	H2926-ND	.60	10.79	35.33	DF11-30DEP-2C
	32	39.0	30.0	H2927-ND	.61	11.07	36.23	DF11-32DEP-2C
In-Line Adaptor								
8	4	9.2	2.0	H2928-ND	.68	12.24	40.05	DF11-4DEP-2A
	6	11.2	4.0	H2929-ND	.76	13.75	45.00	DF11-6DEP-2A
	8	13.2	6.0	H2930-ND	.85	15.40	50.40	DF11-8DEP-2A
	10	15.2	8.0	H2931-ND	.94	16.98	55.58	DF11-10DEP-2A
	12	17.2	10.0	H2932-ND	1.03	18.63	60.98	DF11-12DEP-2A
	14	19.2	12.0	H2933-ND	1.16	20.97	68.63	DF11-14DEP-2A
	16	21.2	14.0	H2934-ND	1.25	22.55	73.80	DF11-16DEP-2A
	18	23.2	16.0	H2935-ND	1.33	24.06	78.75	DF11-18DEP-2A
	20	25.2	18.0	H2936-ND	1.46	26.40	86.40	DF11-20DEP-2A
	22	27.2	20.0	H2937-ND	1.55	27.98	91.58	DF11-22DEP-2A
	24	29.2	22.0	H2938-ND	1.63	29.56	96.75	DF11-24DEP-2A
	26	31.2	24.0	H2939-ND	1.72	31.08	101.70	DF11-26DEP-2A
	28	33.2	26.0	H2940-ND	1.81	32.66	106.88	DF11-28DEP-2A
	30	35.2	28.0	H2941-ND	1.89	34.17	111.83	DF11-30DEP-2A
	32	37.2	30.0	H2942-ND	1.69	32.50	104.00	DF11-32DEP-2A
Connector Shorting Jumpers								
9A	4	6.6	2.0	H2943-ND	.65	11.83	38.70	DF11-4DP-SP1
	6	8.6	4.0	H2944-ND	.71	12.86	42.08	DF11-6DP-SP1
	8	10.6	6.0	H2945-ND	.78	14.03	45.90	DF11-8DP-SP1
9B	4	6.6	2.0	H2946-ND	.70	12.72	41.63	DF11-4DP-SP2
	6	8.6	4.0	H2947-ND	.79	14.37	47.03	DF11-6DP-SP2
	8	10.6	6.0	H2948-ND	.89	16.09	52.65	DF11-8DP-SP2
NEW! Connector Shorting Jumpers — RoHS Compliant NEW!								
9A	4	6.6	2.0	H10275-ND	.65	11.83	38.70	DF11-4DP-SP1(05)
	6	8.6	4.0	H10276-ND	.71	12.86	42.08	DF11-6DP-SP1(05)
	8	10.6	6.0	H10277-ND	.78	14.03	45.90	DF11-8DP-SP1(05)
9B	4	6.6	2.0	H10278-ND	.70	12.72	41.63	DF11-4DP-SP2(05)
	6	8.6	4.0	H10279-ND	.79	14.37	47.03	DF11-6DP-SP2(05)
	8	10.6	6.0	H10280-ND	.89	16.09	52.65	DF11-8DP-SP2(05)

Crimping Contacts

Fig.	AWG	Digi-Key Part No.	Loose Piece Pricing 100	Hirose Part No.	Digi-Key Part No.	Tape & Reel Pricing 10,000	Hirose Part No.
Socket Contacts							
Tin Plating							
10	22	H2950-ND	7.34	DF11-22SC	H2950TR-ND	17.00/M	DF11-22SCF
	24-28	H1504-ND	6.51	DF11-2428SC	H1504TR-ND	10.00/M	DF11-2428SCF
	30	H2954-ND	7.34	DF11-30SC	H2954TR-ND	17.00/M	DF11-30SCF
Gold Plating							
10	22	H2953-ND	12.25	DF11-22SCA	—	—	—
	24-28	H1505-ND	11.00	DF11-2428SCA	H1505TR-ND	40.00/M	DF11-2428SCFA
	30	H2951-ND	10.25	DF11-30SCA	H2951TR-ND	40.00/M	DF11-30SCFA
Pin Contacts							
Tin Plating							
11	22	—	—	—	H2952TR-ND	18.00/M	DF11-EP22PCF
	24-28	H1506-ND	7.70	DF11-EP2428PC	H1506TR-ND	17.00/M	DF11-EP2428PCF
Gold Plating							
11	24-28	H1507-ND	12.75	DF11-EP2428PCA	—	—	—

Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Hand Crimp Tools			
Hand Tool without Die Set	H9926-ND	332.50	HRUS-HT-1
22AWG Socket Die Set for #H9926-ND	H10298-ND ***NEW!***	372.40	DF11-TA22HC/US-DS
24-28AWG Socket Die Set for #H9926-ND	H9928-ND	239.40	DF11-TA2428HC/US-DS
Hand Tool with 22AWG Socket Die Set	H10297-ND ***NEW!***	689.00	DF11-TA22HC/US
Hand Tool with 24-28AWG Socket Die Set	H9924-ND	571.90	DF11-TA2428HC/US
24-28AWG Pin Die Set for #H9926-ND	H10490-ND ***NEW!***	372.40	DF11EP-TA2428HC/US-DS
Hand Tool with 24-28AWG Pin Die Set	H10491-ND ***NEW!***	689.00	DF11EP-TA2428HC/US
22AWG, for Socket with Non-Removeable Die	H9954-ND	806.00	DF11-TA22HC
24-28AWG, for Socket with Non-Removeable Die	H9995-ND	806.00	DF11-TA2428HC
30AWG, for Socket with Non-Removeable Die	H9955-ND	806.00	DF11-TA30HC
24-28AWG, for Pin with Non-Removeable Die	H2304-ND	806.00	DF11EP-TA2428HC
Extraction Tool			
Tool for DF11 Socket	H9996-ND	2.90	DF-C-PO(B)

HIROSE ELECTRIC CO.,LTD.

A3 & A4 Series Crimp Connector

2mm Pitch

These connectors are designed in a miniature and light weight product, and mounted in the high density. The crimping case is structured in the 2mm pitch grid. **Specifications:** • Current Rating: 1A • Voltage Rating: 200VAC • Operating Temperature: -55°C ~ 85°C • Operating Moisture Range: 40% ~ 80% • Insulation Resistance: 1000MΩ min. at 500VDC • Withstanding Voltage: 650VAC/1 minute (no flashover or insulation breakdown) • Contact Resistance: 15mΩ maximum @ 0.1A **Applications:** • VTR • Vehicle telephones • Various electronic equipment **Material:** • Insulator Pin Header: black polyamide, UL94V-0 • Insulator Receptacle: black PBT, UL94V-0 • Insulator Pin Header (SMT) and Receptacle (SMT): light brown PPS • Insulator Crimping Socket: black PBT • Pin Header Contact: Brass with selective gold plating • Receptacle and Crimping Contact: phosphor bronze with selective gold plating

Fig. 1

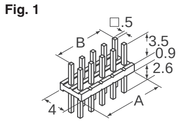

Fig. 2

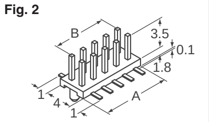

Fig. 3

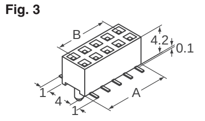

Fig. 4

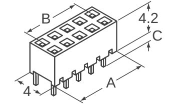

Fig. 5

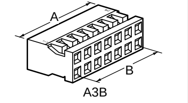

Fig. 6

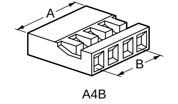

Fig. 7

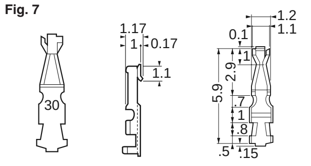

Fig. 8 *Note:* For use with all series.

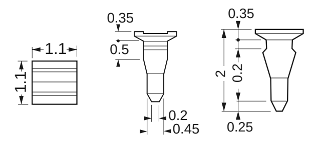

Fig.	No. of Contacts	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Pin Header								
Low Profile - Gold Plating								
1	2	2.0	—	H1807-ND	.55	8.25	25.85	A3C-2P-2DSA
	4	4.0	2.0	H1808-ND	.61	11.00	36.00	A3C-4P-2DSA
	6	6.0	4.0	H1809-ND	.84	15.13	49.50	A3C-6P-2DSA
	8	8.0	6.0	H1810-ND	1.03	18.56	60.75	A3C-8P-2DSA
	10	10.0	8.0	H1811-ND	1.33	24.06	78.75	A3C-10P-2DSA
	12	12.0	10.0	H1812-ND	1.63	29.56	96.75	A3C-12P-2DSA
	14	14.0	12.0	H1813-ND	1.71	30.94	101.25	A3C-14P-2DSA
	16	16.0	14.0	H1814-ND	1.82	35.00	112.00	A3C-16P-2DSA
	18	18.0	16.0	H1815-ND	1.85	35.63	114.00	A3C-18P-2DSA
	20	20.0	18.0	H1816-ND	2.63	50.63	162.00	A3C-20P-2DSA
	22	22.0	20.0	H1817-ND	2.70	51.88	166.00	A3C-22P-2DSA
	24	24.0	22.0	H1818-ND	2.73	52.50	168.00	A3C-24P-2DSA
	26	26.0	24.0	H1819-ND	2.80	53.75	172.00	A3C-26P-2DSA
	28	28.0	26.0	H1820-ND	2.83	54.38	174.00	A3C-28P-2DSA
	32	32.0	30.0	H1821-ND	4.38	84.94	271.80	A3C-32P-2DSA
	44	44.0	42.0	H1822-ND	4.38	84.94	271.80	A3C-44P-2DSA
	48	48.0	46.0	H1823-ND	4.38	84.94	271.80	A3C-48P-2DSA
	50	50.0	48.0	H1824-ND	4.38	84.94	271.80	A3C-50P-2DSA
Without Boss - Gold Plating								
2	4	4.0	2.0	H1781-ND	1.14	20.63	67.50	A3-4PA-2SV
	6	6.0	4.0	H1782-ND	1.33	24.06	78.75	A3-6PA-2SV
	8	8.0	6.0	H1783-ND	1.41	25.44	83.25	A3-8PA-2SV
	10	10.0	8.0	H1784-ND	1.63	29.56	96.75	A3-10PA-2SV
	12	12.0	10.0	H1785-ND	1.82	33.00	108.00	A3-12PA-2SV
	14	14.0	12.0	H1786-ND	1.66	31.88	102.00	A3-14PA-2SV
	16	16.0	14.0	H1787-ND	1.82	35.00	112.00	A3-16PA-2SV
	20	20.0	18.0	H1788-ND	2.08	40.00	128.00	A3-20PA-2SV
	24	24.0	22.0	H1789-ND	2.47	47.50	152.00	A3-24PA-2SV
	28	28.0	26.0	H1790-ND	2.89	55.63	178.00	A3-28PA-2SV
	32	32.0	30.0	H1791-ND	2.96	57.38	183.60	A3-32PA-2SV
	44	44.0	42.0	H1792-ND	4.06	78.75	252.00	A3-44PA-2SV
	50	50.0	48.0	H1793-ND	4.61	89.44	286.20	A3-50PA-2SV
With Boss - Gold Plating								
2	4	4.0	2.0	H1794-ND	1.14	20.63	67.50	A3A-4PA-2SV
	6	6.0	4.0	H1795-ND	1.33	24.06	78.75	A3A-6PA-2SV
	8	8.0	6.0	H1796-ND	1.41	25.44	83.25	A3A-8PA-2SV
	10	10.0	8.0	H1797-ND	1.63	29.56	96.75	A3A-10PA-2SV
	12	12.0	10.0	H1798-ND	1.82	33.00	108.00	A3A-12PA-2SV
	14	14.0	12.0	H1799-ND	1.66	31.88	102.00	A3A-14PA-2SV
	16	16.0	14.0	H1800-ND	1.82	35.00	112.00	A3A-16PA-2SV
	20	20.0	18.0	H1801-ND	2.08	40.00	128.00	A3A-20PA-2SV
	24	24.0	22.0	H1802-ND	2.47	47.50	152.00	A3A-24PA-2SV
	28	28.0	26.0	H1803-ND	2.89	55.63	178.00	A3A-28PA-2SV
	32	32.0	30.0	H1804-ND	2.96	57.38	183.60	A3A-32PA-2SV
	44	44.0	42.0	H1805-ND	4.06	78.75	252.00	A3A-44PA-2SV
	50	50.0	48.0	H1806-ND	4.61	89.44	286.20	A3A-50PA-2SV
Receptacle								
Without Boss - Gold Plating								
3	4	4.0	2.0	H1827-ND	.95	17.19	56.25	A3-4DA-2SV
	6	6.0	4.0	H1828-ND	1.14	20.63	67.50	A3-6DA-2SV
	8	8.0	6.0	H1829-ND	1.33	24.06	78.75	A3-8DA-2SV
	10	10.0	8.0	H1830-ND	1.41	25.44	83.25	A3-10DA-2SV
	12	12.0	10.0	H1831-ND	1.56	28.19	92.25	A3-12DA-2SV
	14	14.0	12.0	H1832-ND	1.86	33.69	110.25	A3-14DA-2SV
	16	16.0	14.0	H1833-ND	1.76	33.75	108.00	A3-16DA-2SV
	20	20.0	18.0	H1834-ND	2.08	40.00	128.00	A3-20DA-2SV
	24	24.0	22.0	H1835-ND	2.47	47.50	152.00	A3-24DA-2SV
	28	28.0	26.0	H1836-ND	2.89	55.63	178.00	A3-28DA-2SV
	32	32.0	30.0	H1837-ND	3.10	60.19	192.60	A3-32DA-2SV
With Boss - Gold Plating								
3	4	4.0	2.0	H1838-ND	.95	17.19	56.25	A3A-4DA-2SV
	6	6.0	4.0	H1839-ND	1.14	20.63	67.50	A3A-6DA-2SV
	8	8.0	6.0	H1840-ND	1.33	24.06	78.75	A3A-8DA-2SV
	10	10.0	8.0	H1841-ND	1.41	25.44	83.25	A3A-10DA-2SV
3	12	12.0	10.0	H1842-ND	1.56	28.19	92.25	A3A-12DA-2SV
	14	14.0	12.0	H1843-ND	1.86	33.69	110.25	A3A-14DA-2SV
	16	16.0	14.0	H1844-ND	1.76	33.75	108.00	A3A-16DA-2SV
	24	24.0	22.0	H1846-ND	2.47	47.50	152.00	A3A-24DA-2SV
	28	28.0	26.0	H1847-ND	2.89	55.63	178.00	A3A-28DA-2SV
	32	32.0	30.0	H1848-ND	3.10	60.19	192.60	A3A-32DA-2SV

Fig.	No. of Contacts	Dimensions (mm)			Digi-Key Part No.	Pricing			Hirose Part No.
		A	B	C		1	25	100	
Pin Headers - Gold Plating									
4	4	4.0	2.0	3.0	H1849-ND	1.86	33.69	110.25	A3C-4DA-2DSA
		4.0	2.0	2.0	H1862-ND	1.86	33.69	110.25	A3C-4DA-2DSC
		4.0	2.0	1.27	H1878-ND	.68	12.38	40.50	A3D-4DA-2DSE
	6	6.0	4.0	3.0	H1850-ND	1.76	33.75	108.00	A3C-6DA-2DSA
		6.0	4.0	2.0	H1863-ND	1.76	33.75	108.00	A3C-6DA-2DSC
		6.0	4.0	1.27	H1879-ND	.84	15.13	49.50	A3D-6DA-2DSE
	8	8.0	6.0	3.0	H1851-ND	1.92	36.88	118.00	A3C-8DA-2DSA
		8.0	6.0	2.0	H1864-ND	1.92	36.88	118.00	A3C-8DA-2DSC
		8.0	6.0	1.27	H1880-ND	1.03	18.56	60.75	A3D-8DA-2DSE
	10	10.0	8.0	3.0	H1852-ND	2.08	40.00	128.00	A3C-10DA-2DSA
		10.0	8.0	2.0	H1865-ND	2.08	40.00	128.00	A3C-10DA-2DSC
		10.0	8.0	1.27	H1881-ND	1.14	20.63	67.50	A3D-10DA-2DSE
	12	12.0	10.0	3.0	H1853-ND	2.11	40.63	130.00	A3C-12DA-2DSA
		12.0	10.0	2.0	H1866-ND	2.11	40.63	130.00	A3C-12DA-2DSC
		12.0	10.0	1.27	H1882-ND	1.44	26.13	85.50	A3D-12DA-2DSE
	14	14.0	12.0	3.0	H1854-ND	2.21	42.50	136.00	A3C-14DA-2DSA
		14.0	12.0	2.0	H1867-ND	2.21	42.50	136.00	A3C-14DA-2DSC
		14.0	12.0	1.27	H1883-ND	1.56	28.19	92.25	A3D-14DA-2DSE
	16	16.0	14.0	3.0	H1855-ND	2.34	45.00	144.00	A3C-16DA-2DSA
		16.0	14.0	2.0	H1868-ND	2.34	45.00	144.00	A3C-16DA-2DSC
		16.0	14.0	1.27	H1884-ND	1.82	33.00	108.00	A3D-16DA-2DSE
	18	18.0	16.0	3.0	H1856-ND	2.44	46.88	150.00	A3C-18DA-2DSA
		18.0	16.0	2.0	H1869-ND	2.44	46.88	150.00	A3C-18DA-2DSC
		18.0	16.0	1.27	H1885-ND	1.85	35.63	114.00	A3D-18DA-2DSE
	20	20.0	18.0	3.0	H1857-ND	2.54	48.75	156.00	A3C-20DA-2DSA
		20.0	18.0	2.0	H1870-ND	2.54	48.75	156.00	A3C-20DA-2DSC
		20.0	18.0	1.27	H1886-ND	2.08	40.00	128.00	A3D-20DA-2DSE
	24	24.0	22.0	3.0	H1858-ND	2.70	51.88	166.00	A3C-24DA-2DSA
		24.0	22.0	2.0	H1871-ND	2.70	51.88	166.00	A3C-24DA-2DSC
		24.0	22.0	1.27	H1875-ND	2.70	51.88	166.00	A3C-24DA-2DSE
	28	28.0	26.0	3.0	H1859-ND	2.96	56.88	182.00	A3C-28DA-2DSA
		28.0	26.0	2.0	H1872-ND	2.96	56.88	182.00	A3C-28DA-2DSC
		28.0	26.0	1.27	H1887-ND	2.89	55.63	178.00	A3D-28DA-2DSE
	32	32.0	30.0	3.0	H1860-ND	3.15	60.63	194.00	A3C-32DA-2DSA
		32.0	30.0	2.0	H1873-ND	3.15	60.63	194.00	A3C-32DA-2DSC
		32.0	30.0	1.27	H1876-ND	3.15	60.63	194.00	A3C-32DA-2DSE
	50	50.0	48.0	3.0	H1861-ND	4.79	92.81	297.00	A3C-50DA-2DSA
		50.0	48.0	2.0	H1874-ND	4.79	92.81	297.00	A3C-50DA-2DSC
		50.0	48.0	1.27	H1877-ND	4.79	92.81	297.00	A3C-50DA-2DSE
	44	44.0	42.0	1.27	H1888-ND	3.05	59.06	189.00	A3D-44DA-2DSE
		44.0	42.0	1.0	H1890-ND	3.05	59.06	189.00	A3D-44DA-2DSG
	62	62.0	60.0	1.27	H1889-ND	4.61	89.44	286.20	A3D-62DA-2DSE

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Dual Row Crimp Socket - A3B Series								
5	4	4.0	2.0	H2001-ND	.50	7.50	23.50	A3B-4D-2C
	6	6.0	4.0	H2002-ND	.50	7.50	23.50	A3B-6D-2C
	8	8.0	6.0	H2003-ND	.50	7.50	23.50	A3B-8D-2C
	10	10.0	8.0	H2004-ND	.55	8.25	25.85	A3B-10D-2C
	12	12.0	10.0	H2005-ND	.55	8.25	25.85	A3B-12D-2C
	14	14.0	12.0	H2006-ND	.65	9.75	30.55	A3B-14D-2C
	18	18.0	16.0	H2007-ND	.70	10.50	32.90	A3B-18D-2C
	20	20.0	18.0	H2008-ND	.61	11.00	36.00	A3B-20D-2C
	24	24.0	22.0	H2009-ND	.65	11.69	38.25	A3B-24D-2C
	28	28.0	26.0	H2010-ND	.72	13.06	42.75	A3B-28D-2C
Single Row Crimp Socket - A4B Series								
6	2	4.0	2.0	H2011-ND	.45	6.75	21.15	A4B-2S-2C
	3	6.0	4.0	H2012-ND	.45	6.75	21.15	A4B-3S-2C
	4	8.0	6.0	H2013-ND	.45	6.75	21.15	A4B-4S-2C
	5	10.0	8.0	H2014-ND	.80	14.44	47.25	A4B-5S-2C
	6	12.0	10.0	H2015-ND	.60	9.00	28.20	A4B-6S-2C
	8	16.0	14.0	H2016-ND	.44	6.60	20.68	A4B-8S-2C
	10	20.0	18.0	H2017-ND	.52	6.20	18.50	A4B-10S-2C
	12	24.0	22.0	H2018-ND	.45	6.75	21.15	A4B-12S-2C
7	Crimp Terminal for A3B-A4B Type			H9999-ND	—	—	8.53	A3B-2630SCC
	Crimp Tool for A3B-A4B Type			H9998-ND	806.00	—	—	A3B-TA2630HC
8	Polarizing Key for Socket Connectors			H2000-ND	2.00/10	—	11.50	A3-GPIN(A)

A3E Series Crimp Connector

2mm Pitch

Specifications: • Current Rating: 0.5A • Voltage Rating: 125VAC • Operating Temperature: -55°C~ 85°C • Operating Moisture Range: 40% ~ 80% • Insulation Resistance: 1000MΩ min. at 250VDC • Withstanding Voltage: 300VAC/1 minute (no flashover or insulation breakdown) • Contact Resistance: 40mΩ maximum @ 0.1A

Material: • Insulator Pin Header: black polyamid, UL94V-0 • Insulator Socket: black PBT, UL94V-0 • Pin Header Contact: Brass with selective gold plating • Socket Contact: beryllium copper

Fig. 1

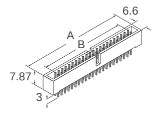

Fig. 2

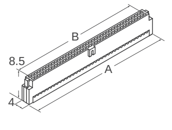

Fig.	No. of Pins	Dimensions (mm)		Digi-Key Part No.	Pricing			Hirose Part No.
		A	B		1	25	100	
Pin Header - Gold Plating								
1	44	52.0	42.0	H1825-ND	3.97	77.06	246.60	A3E-44PA-2DSA
	50	58.0	48.0	H1826-ND	5.02	97.31	311.40	A3E-50PA-2DSA
Socket								
2	44	49.0	42.0	H1891-ND	7.64	154.35	485.10	A3E-44D-2R
	50	55.0	48.0	H1892-ND	7.49	151.20	475.20	A3E-50D-2R
—	Universal Guide Plate			H9947-ND	1560.00	—	—	A3E-GPA

2mm Headers

Features:

• 15 microinches selective gold plating • Insulator is glass filled thermoplastic UL Rating 94V0 • Color: Black • Contact material is phosphor bronze • "Post plated" contacts; no bare edges.

Single Row – Straight Header

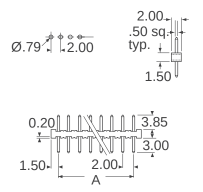

Single Row – Right Angle Header

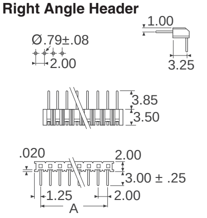

Dual Row – Straight Header

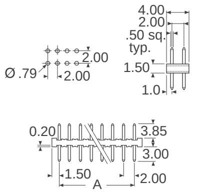

Manufacturer's Full Length Headers and Receptacles Available in Multiple Pin Versions

Dim. A (mm)	Digi-Key Part No.	Pricing			NorComp Part No.
		1	10	100	
Header Single Row Straight – 36 Pins					
70.0	2163S-36-ND	2.93	25.35	214.50	2163-36-01-P2
Header Single Row Right Angle – 36 Pins					
70.0	2163R-36-ND	2.91	25.25	213.62	2163-36-02-P2
Header Dual Row Straight – 72 Pins					
70.0	2164S-36-ND	5.42	47.01	397.76	2164-72-01-P2

Digi-Key's Cut Length to your Specification

Digi-Key Part No.	Base Price	Pin Adder
2163S-XX-ND	1.00	.05
2163R-XX-ND	1.04	.05
2164S-XX-ND	1.45	.11

How to Order 2mm Headers — 4 Easy Steps

Q. How do I order an 2163S header with 16 pins?

A. Call Digi-Key where you'll receive the price or determine the cost yourself.

Step 1. Select needed "Digi-Key Part Number" and number of pins desired.
Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart).
Step 3. Multiply the number of pins you desire by "Pin Adder" of your selected Part Number (refer to chart).
Step 4. Add Step 2 and Step 3 together for Final Cost.

2 ❑ ❑ ❑ ❑ - ❑ ❑ - ND

Base Part Number | Number of Desired Pins Per Row

OUR EXAMPLE		***YOUR DIGI-KEY PART NUMBER***	
Step 1.	2163S-16-ND	Step 1.	2 _ _ _ _ - _ _ - ND
Step 2.	1.00	Step 2.	______
Step 3.	16 x .05 = .80	Step 3.	x = ______
Step 4.	Your Cost = $1.80	Step 4.	Your Cost = ______

NOTE: For Quantities of 10 or More, Call DIGI-KEY.

2mm Receptacles

Features:

• Printed Circuit Board Mounted Receptacle • .079" (2mm) centers for real estate savings • Single and Dual Row Offerings • 15 microinches selective gold • Insulator, housing, material is glass filled thermoplastic, UL Rating 94VO • Color: Black • Contact material is phosphor bronze

Single Row – Vertical Receptacle

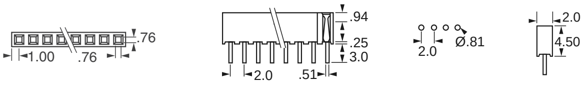

Dual Row – Vertical Receptacle

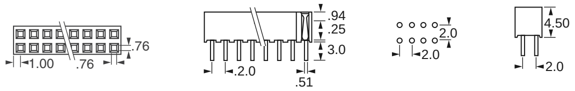

No. of Positions	Digi-Key Part No.	Price Each			NorComp Part No.
		1	10	100	
Single Row Vertical					
3	2063S-03-ND	1.43	1.28	1.05	2063-03-01-P2
4	2063S-04-ND	1.57	1.41	1.16	2063-04-01-P2
7	2063S-07-ND	2.02	1.82	1.50	2063-07-01-P2
12	2063S-12-ND	2.82	2.53	2.08	2063-12-01-P2
Dual Row Vertical					
6	2064S-03-ND	1.88	1.69	1.39	2064-06-01-P2
8	2064S-04-ND	2.19	1.97	1.62	2064-08-01-P2
10	2064S-05-ND	2.51	2.25	1.85	2064-10-01-P2
12	2064S-06-ND	2.82	2.53	2.08	2064-12-01-P2
14	2064S-07-ND	3.14	2.81	2.31	2064-14-01-P2
16	2064S-08-ND	3.45	3.09	2.55	2064-16-01-P2
18	2064S-09-ND	3.79	3.40	2.80	2064-18-01-P2
20	2064S-10-ND	4.10	3.68	3.03	2064-20-01-P2
22	2064S-11-ND	4.42	3.96	3.26	2064-22-01-P2
24	2064S-12-ND	4.76	4.26	3.51	2064-24-01-P2

2mm Shunts

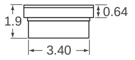

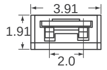

LOW PROFILE:

• Housing Material: Glass filled thermoplastic, UL flammability rating 94V-O • Color: Black • Contact Material: High Performance Copper Alloy

Finish	Digi-Key Part No.	Pricing				NorComp Part No.
		1	10	100	500	
Low Profile, Gold*	LP1-001-ND	.51	4.59	37.80	130.50	800-002-LP1-001

*30μ" gold plated

HIROSE ELECTRIC CO.,LTD.

MDF7 Series Bottom Entry Connector 2.54mm Pitch

Features:

• Board-to-board distance can be freely set. Pass-through construction header pins and many header variations allow you set the board-to-board steplessly • Arrangement of components sides. Components sides of two boards can be arranged on the same side, without facing each other.

Applications:

Telephones, internal connections of OA/FA equipment, connection of IPM and IGBT to boards.

Specifications:

• Rated Current: 3A • Rated Voltage: AC250V • Operating Temperature: -35°C ~ 85°C • Insulation Resistance: 1,000MΩ or more • Contact Resistance: 30mΩ or less • Insertion and withdrawals force: Minimum 0.4N (40gf), Maximum 4.4N (450gf)

Materials:

• Receptacle: Insulation; Polyimide resin, black, UL94V-0 and Terminal; Phosphor bronze, gold or tin • Pin Header: Insulation; PBT resin, Main body - Black / Locator: Grey, UL94V-0

Fig. 1

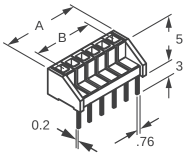

Fig. 2

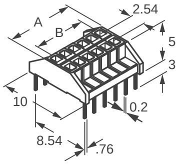

Fig.	No. of Contacts	Dimension (mm)		Digi-Key Part No.	Price Each			Hirose Part No.
		A	B		1	25	100	
Receptacle - Straight Dip								
Single Row — Tin								
1	3	7.62	5.08	H2549-ND	1.00	.73	.60	MDF7- 3S-2.54DSA
	5	12.70	10.16	H2550-ND	1.16	.85	.69	MDF7- 5S-2.54DSA
	6	15.24	12.70	H2551-ND	1.23	.90	.73	MDF7- 6S-2.54DSA
	7	17.78	15.24	H2552-ND	1.30	.95	.78	MDF7- 7S-2.54DSA
	8	20.32	17.78	H2553-ND	1.37	1.00	.82	MDF7- 8S-2.54DSA
	9	22.86	20.32	H2554-ND	1.44	1.05	.86	MDF7- 9S-2.54DSA
	10	25.40	22.86	H2555-ND	1.62	1.18	.97	MDF7-10S-2.54DSA
	11	27.94	25.40	H2556-ND	1.69	1.23	1.01	MDF7-11S-2.54DSA
	12	30.48	27.94	H2557-ND	1.76	1.28	1.05	MDF7-12S-2.54DSA
	13	33.02	30.48	H2558-ND	1.78	1.29	1.06	MDF7-13S-2.54DSA
	14	35.56	33.02	H2559-ND	1.81	1.31	1.07	MDF7-14S-2.54DSA
	15	38.10	35.56	H2560-ND	1.86	1.35	1.11	MDF7-15S-2.54DSA
	16	40.64	38.10	H2561-ND	1.67	1.29	1.03	MDF7-16S-2.54DSA
	17	43.18	40.64	H2562-ND	1.73	1.33	1.07	MDF7-17S-2.54DSA
	18	45.72	43.18	H2563-ND	1.85	1.43	1.14	MDF7-18S-2.54DSA
	19	48.26	45.72	H2564-ND	1.88	1.45	1.16	MDF7-19S-2.54DSA
	20	50.80	48.26	H2565-ND	1.91	1.47	1.18	MDF7-20S-2.54DSA
	21	53.34	50.80	H2566-ND	2.02	1.56	1.25	MDF7-21S-2.54DSA
	22	55.88	53.34	H2567-ND	2.08	1.60	1.28	MDF7-22S-2.54DSA
	23	58.42	55.88	H2568-ND	2.14	1.65	1.32	MDF7-23S-2.54DSA
	24	60.96	58.42	H2569-ND	2.20	1.70	1.36	MDF7-24S-2.54DSA
	25	63.50	60.96	H2570-ND	2.38	1.83	1.47	MDF7-25S-2.54DSA
Double Row — Gold								
2	12	15.24	12.70	H2571-ND	2.93	2.26	1.81	MDF7-12D-2.54DSA
	16	20.32	17.78	H2573-ND	3.19	2.48	1.98	MDF7-16D-2.54DSA
	20	25.40	22.86	H2574-ND	3.65	2.84	2.27	MDF7-20D-2.54DSA
	22	27.94	25.40	H2575-ND	3.74	2.91	2.33	MDF7-22D-2.54DSA
	26	33.02	30.48	H2577-ND	4.32	3.36	2.69	MDF7-26D-2.54DSA
	30	38.10	35.56	H2578-ND	4.87	3.78	3.03	MDF7-30D-2.54DSA
	34	43.18	40.64	H2579-ND	5.60	4.35	3.48	MDF7-34D-2.54DSA
	40	50.80	48.26	H2580-ND	6.44	5.00	4.00	MDF7-40D-2.54DSA
	46	58.42	55.88	H2581-ND	6.58	5.32	4.18	MDF7-46D-2.54DSA

HRS HIROSE ELECTRIC CO.,LTD.

DF1B Series Connectors for Discrete Wire Connection

2.5mm Pitch

Features: • A single or double row contact arrangement is available to both PCB to cable and adapter series with tin or gold plating • A tall header supporting the potting processing of the PCB (with resin filled) for waterproof measures is available **Applications:** Copy machine, printer, office equipment **Specifications:** • UL: E52653 and CSA: LR95109 • Current Rating: 20-22AWG: 3A, 24-28AWG: 1A and 30AWG: 0.5A • Voltage Rating: 30VAC • Operating Temperature Range: -35°C ~ 85°C • Operating Moisture Range: 40% to 80% • Insulation Resistance: 500VDC, 1000MΩ minimum • Withstanding Voltage: 1 minute at rated value, 650VAC (no flashover or insulation breakdown) • Contact Resistance: 100mA, 30mΩ maximum **Material:** • Insulator: Polyamide, white, UL94V-0 • Contacts: Socket/Plug: Phosphor copper with gold or tin plating Header: Brass with gold or tin plating

Fig. 1

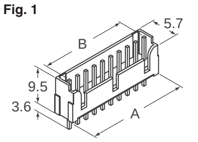

Fig. 2

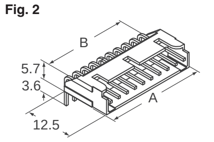

Fig. 3

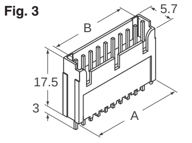

Fig. 4

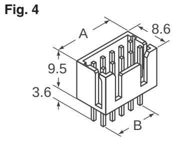

Fig. 5

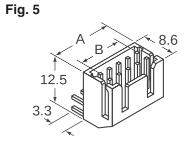

Fig. 6

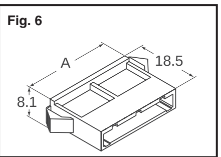

Fig. 7

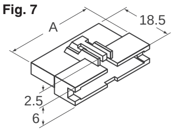

Mates to full lock type receptacles only

Fig. 8

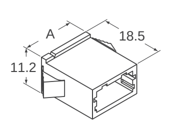

Fig. 9

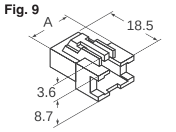

Mates to full lock type receptacles only

Fig. 10

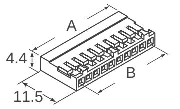

Fig. 11

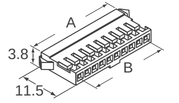

Mates to full type plugs only

Fig. 12

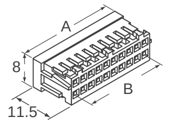

Fig. 13

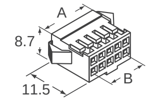

Mates to full type plugs only

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
VERTICAL PIN HEADERS								
Single Row								
Tin Plating								
1	2	7.5	2.5	H3500-ND	.34	4.02	12.00	DF1B-2P-2.5DSA
	3	10	5	H3501-ND	.41	4.86	14.50	DF1B-3P-2.5DSA
	4	12.5	7.5	H3502-ND	.46	5.53	16.50	DF1B-4P-2.5DSA
	5	15	10	H3503-ND	.53	6.37	19.00	DF1B-5P-2.5DSA
	6	17.5	12.5	H3504-ND	.45	6.75	21.15	DF1B-6P-2.5DSA
	7	20	15	H3505-ND	.49	7.28	22.80	DF1B-7P-2.5DSA
	8	22.5	17.5	H3506-ND	.53	7.88	24.68	DF1B-8P-2.5DSA
	9	25	20	H3507-ND	.60	8.93	27.97	DF1B-9P-2.5DSA
	10	27.5	22.5	H3508-ND	.67	10.05	31.49	DF1B-10P-2.5DSA
	11	30	25	H3509-ND	.72	10.73	33.61	DF1B-11P-2.5DSA
	12	32.5	27.5	H3510-ND	.57	10.31	33.75	DF1B-12P-2.5DSA
	13	35	30	H3511-ND	.60	10.79	35.33	DF1B-13P-2.5DSA
	14	37.5	32.5	H3512-ND	.63	11.34	37.13	DF1B-14P-2.5DSA
	15	40	35	H3513-ND	.78	14.09	46.13	DF1B-15P-2.5DSA
	16	42.5	37.5	H3514-ND	.81	14.64	47.93	DF1B-16P-2.5DSA
	18	47.5	42.5	H3515-ND	.86	15.61	51.08	DF1B-18P-2.5DSA
	20	52.2	47.5	H3516-ND	.92	16.64	54.45	DF1B-20P-2.5DSA
Gold Plating								
1	2	7.5	2.5	H3615-ND	.55	6.53	19.50	DF1B-2P-2.5DSA(01)
	3	10	5	H3616-ND	.52	7.80	24.44	DF1B-3P-2.5DSA(01)
	4	12.5	7.5	H3617-ND	.63	9.45	29.61	DF1B-4P-2.5DSA(01)
	5	15	10	H3618-ND	.58	10.45	34.20	DF1B-5P-2.5DSA(01)
	6	17.5	12.5	H3619-ND	.69	12.44	40.73	DF1B-6P-2.5DSA(01)
	7	20	15	H3620-ND	.77	13.96	45.68	DF1B-7P-2.5DSA(01)
	8	22.5	17.5	H3621-ND	.86	15.54	50.85	DF1B-8P-2.5DSA(01)
	9	25	20	H3622-ND	.97	17.53	57.38	DF1B-9P-2.5DSA(01)
	10	27.5	22.5	H3623-ND	1.08	19.59	64.13	DF1B-10P-2.5DSA(01)
	11	30	25	H3624-ND	1.17	21.24	69.53	DF1B-11P-2.5DSA(01)
	12	32.5	27.5	H3625-ND	1.26	22.83	74.70	DF1B-12P-2.5DSA(01)
	13	35	30	H3626-ND	1.35	24.34	79.65	DF1B-13P-2.5DSA(01)
	14	37.5	32.5	H3627-ND	1.43	25.85	84.60	DF1B-14P-2.5DSA(01)
	15	40	35	H3628-ND	1.64	29.70	97.20	DF1B-15P-2.5DSA(01)
	16	42.5	37.5	H3629-ND	1.73	31.21	102.15	DF1B-16P-2.5DSA(01)
	18	47.5	42.5	H3630-ND	1.90	34.31	112.28	DF1B-18P-2.5DSA(01)
	20	52.2	47.5	H3631-ND	1.77	34.00	108.80	DF1B-20P-2.5DSA(01)
Single Row Right Angle								
Tin Plating								
2	2	7.5	2.5	H3517-ND	.43	5.19	15.50	DF1B-2P-2.5DS
	5	15	10	H3520-ND	.48	7.20	22.56	DF1B-5P-2.5DS
	6	17.5	12.5	H3521-ND	.56	8.33	26.09	DF1B-6P-2.5DS
	7	20	15	H3522-ND	.60	8.93	27.97	DF1B-7P-2.5DS
	8	22.5	17.5	H3523-ND	.63	9.45	29.61	DF1B-8P-2.5DS
	9	25	20	H3524-ND	.73	10.88	34.08	DF1B-9P-2.5DS
	10	27.5	22.5	H3525-ND	.62	11.14	36.45	DF1B-10P-2.5DS
	11	30	25	H3526-ND	.65	11.69	38.25	DF1B-11P-2.5DS
	12	32.5	27.5	H3527-ND	.68	12.24	40.05	DF1B-12P-2.5DS
	13	35	30	H3528-ND	.71	12.79	41.85	DF1B-13P-2.5DS
	14	37.5	32.5	H3529-ND	.74	13.34	43.65	DF1B-14P-2.5DS
	15	40	35	H3530-ND	.91	16.50	54.00	DF1B-15P-2.5DS
	16	42.5	37.5	H3531-ND	.94	17.05	55.80	DF1B-16P-2.5DS
	18	47.5	42.5	H3532-ND	1.00	18.15	59.40	DF1B-18P-2.5DS
	20	52.2	47.5	H3533-ND	1.06	19.18	62.78	DF1B-20P-2.5DS
Gold Plating								
2	2	7.5	2.5	H3632-ND	.49	7.28	22.80	DF1B-2P-2.5DS(01)
	3	10	5	H3633-ND	.64	9.53	29.85	DF1B-3P-2.5DS(01)
	4	12.5	7.5	H3634-ND	.58	10.45	34.20	DF1B-4P-2.5DS(01)
	5	15	10	H3635-ND	.70	12.65	41.40	DF1B-5P-2.5DS(01)
	6	17.5	12.5	H3636-ND	.82	14.85	48.60	DF1B-6P-2.5DS(01)
	7	20	15	H3637-ND	.92	16.57	54.23	DF1B-7P-2.5DS(01)
	8	22.5	17.5	H3638-ND	1.01	18.36	60.08	DF1B-8P-2.5DS(01)
	9	25	20	H3639-ND	1.15	20.83	68.18	DF1B-9P-2.5DS(01)
	10	27.5	22.5	H3640-ND	1.28	23.17	75.83	DF1B-10P-2.5DS(01)
	11	30	25	H3641-ND	1.38	24.96	81.68	DF1B-11P-2.5DS(01)
	12	32.5	27.5	H3642-ND	1.48	26.74	87.53	DF1B-12P-2.5DS(01)
	13	35	30	H3643-ND	1.49	27.02	88.43	DF1B-13P-2.5DS(01)
	14	37.5	32.5	H3644-ND	1.67	30.18	98.78	DF1B-14P-2.5DS(01)
	15	40	35	H3645-ND	1.63	31.44	100.60	DF1B-15P-2.5DS(01)
	16	42.5	37.5	H3646-ND	1.72	33.00	105.60	DF1B-16P-2.5DS(01)
	18	47.5	42.5	H3647-ND	1.88	36.19	115.80	DF1B-18P-2.5DS(01)
	20	52.2	47.5	H3648-ND	2.05	39.38	126.00	DF1B-20P-2.5DS(01)

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Single Row for Potting								
TIn Plating								
3	2	7.5	2.5	H3534-ND	.89	16.09	52.65	DF1BD-2P-2.5DSA
	3	10	5	H3535-ND	.94	17.05	55.80	DF1BD-3P-2.5DSA
	4	12.5	7.5	H3536-ND	1.00	18.15	59.40	DF1BD-4P-2.5DSA
	5	15	10	H3537-ND	1.25	22.69	74.25	DF1BD-5P-2.5DSA
	6	17.5	12.5	H3538-ND	1.12	20.35	66.60	DF1BD-6P-2.5DSA
	7	20	15	H3539-ND	1.44	26.13	85.50	DF1BD-7P-2.5DSA
	8	22.5	17.5	H3540-ND	1.25	22.55	73.80	DF1BD-8P-2.5DSA
	9	25	20	H3541-ND	1.60	28.88	94.50	DF1BD-9P-2.5DSA
	10	27.5	22.5	H3542-ND	1.36	24.68	80.78	DF1BD-10P-2.5DSA
Double Row								
Tin Plating								
4	4	7.5	2.5	H3560-ND	.44	6.53	20.45	DF1B-4DP-2.5DSA
	6	10	5	H3561-ND	.55	8.18	25.62	DF1B-6DP-2.5DSA
	8	12.5	7.5	H3562-ND	.65	9.68	30.32	DF1B-8DP-2.5DSA
	10	15	10	H3563-ND	.59	10.73	35.10	DF1B-10DP-2.5DSA
	12	17.5	12.5	H3564-ND	.67	12.10	39.60	DF1B-12DP-2.5DSA
	14	20	15	H3565-ND	.74	13.48	44.10	DF1B-14DP-2.5DSA
	16	22.5	17.5	H3566-ND	.82	14.85	48.60	DF1B-16DP-2.5DSA
	18	25	20	H3567-ND	.92	16.64	54.45	DF1B-18DP-2.5DSA
	20	27.5	22.5	H3568-ND	1.01	18.29	59.85	DF1B-20DP-2.5DSA
	22	30	25	H3569-ND	1.15	20.76	67.95	DF1B-22DP-2.5DSA
	24	32.5	27.5	H3570-ND	1.23	22.28	72.90	DF1B-24DP-2.5DSA
	26	35	30	H3571-ND	1.30	23.58	77.18	DF1B-26DP-2.5DSA
	28	37.5	32.5	H3572-ND	1.35	24.34	79.65	DF1B-28DP-2.5DSA
	30	40	35	H3573-ND	1.55	28.05	91.80	DF1B-30DP-2.5DSA
	34	45	40	H3574-ND	1.70	30.73	100.58	DF1B-34DP-2.5DSA
	36	47.5	42.5	H3575-ND	1.83	33.14	108.45	DF1B-36DP-2.5DSA
	40	52.5	47.5	H3576-ND	1.65	31.81	101.80	DF1B-40DP-2.5DSA
Gold Plating								
4	4	7.5	2.5	H3666-ND	.67	10.05	31.49	DF1B-4DP-2.5DSA(01)
	6	10	5	H3667-ND	.65	11.83	38.70	DF1B-6DP-2.5DSA(01)
	8	12.5	7.5	H3668-ND	.79	14.30	46.80	DF1B-8DP-2.5DSA(01)
	10	15	10	H3669-ND	.95	17.26	56.48	DF1B-10DP-2.5DSA(01)
	12	17.5	12.5	H3670-ND	1.09	19.73	64.58	DF1B-12DP-2.5DSA(01)
	14	20	15	H3671-ND	1.23	22.21	72.68	DF1B-14DP-2.5DSA(01)
	16	22.5	17.5	H3672-ND	1.36	24.68	80.78	DF1B-16DP-2.5DSA(01)
	18	25	20	H3673-ND	1.52	27.50	90.00	DF1B-18DP-2.5DSA(01)
	20	27.5	22.5	H3674-ND	1.67	30.25	99.00	DF1B-20DP-2.5DSA(01)
	22	30	25	H3675-ND	1.66	31.88	102.00	DF1B-22DP-2.5DSA(01)
	24	32.5	27.5	H3676-ND	1.78	34.31	109.80	DF1B-24DP-2.5DSA(01)
	26	35	30	H3677-ND	1.90	36.56	117.00	DF1B-26DP-2.5DSA(01)
	28	37.5	32.5	H3678-ND	2.02	38.75	124.00	DF1B-28DP-2.5DSA(01)
	30	40	35	H3679-ND	2.21	42.50	136.00	DF1B-30DP-2.5DSA(01)
	34	45	40	H3680-ND	2.44	47.00	150.40	DF1B-34DP-2.5DSA(01)
	36	47.5	42.5	H3681-ND	2.66	51.06	163.40	DF1B-36DP-2.5DSA(01)
	40	52.5	47.5	H3682-ND	2.80	53.81	172.20	DF1B-40DP-2.5DSA(01)
Double Row Right Angle								
Tin Plating								
5	4	7.5	2.5	H3543-ND	.50	7.50	23.50	DF1B-4DP-2.5DS
	6	10	5	H3544-ND	.63	9.45	29.61	DF1B-6DP-2.5DS
	8	12.5	7.5	H3545-ND	.74	11.10	34.78	DF1B-8DP-2.5DS
	10	15	10	H3546-ND	.70	12.58	41.18	DF1B-10DP-2.5DS
	12	17.5	12.5	H3547-ND	.78	14.03	45.90	DF1B-12DP-2.5DS
	14	20	15	H3548-ND	.86	15.47	50.63	DF1B-14DP-2.5DS
	16	22.5	17.5	H3549-ND	.94	16.98	55.58	DF1B-16DP-2.5DS
	18	25	20	H3550-ND	1.07	19.39	63.45	DF1B-18DP-2.5DS
	20	27.5	22.5	H3551-ND	1.17	21.24	69.53	DF1B-20DP-2.5DS
	22	30	25	H3552-ND	1.32	23.86	78.08	DF1B-22DP-2.5DS
	24	32.5	27.5	H3553-ND	1.41	25.51	83.48	DF1B-24DP-2.5DS
	26	35	30	H3554-ND	1.49	26.95	88.20	DF1B-26DP-2.5DS
	30	40	35	H3556-ND	1.84	33.28	108.90	DF1B-30DP-2.5DS
	34	45	40	H3557-ND	1.71	32.94	105.40	DF1B-34DP-2.5DS
	36	47.5	42.5	H3558-ND	1.83	35.13	112.40	DF1B-36DP-2.5DS
	40	52.5	47.5	H3559-ND	1.92	37.00	118.40	DF1B-40DP-2.5DS
Gold Plating								
5	4	7.5	2.5	H3649-ND	.63	11.34	37.13	DF1B-4DP-2.5DS(01)
	6	10	5	H3650-ND	.86	15.47	50.63	DF1B-6DP-2.5DS(01)
	8	12.5	7.5	H3651-ND	1.08	19.46	63.68	DF1B-8DP-2.5DS(01)
	10	15	10	H3652-ND	1.32	23.93	78.30	DF1B-10DP-2.5DS(01)
	12	17.5	12.5	H3653-ND	1.54	27.91	91.35	DF1B-12DP-2.5DS(01)
	14	20	15	H3654-ND	1.76	31.83	104.18	DF1B-14DP-2.5DS(01)
	16	22.5	17.5	H3655-ND	1.69	32.56	104.20	DF1B-16DP-2.5DS(01)

(Continued)

DF1B Series Connectors - 2.5mm Pitch for Discrete Wire Connection *(Cont.)*

Fig.	No. of Contacts	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Hirose Part No.
5	18	25	20	H3656-ND	1.90	36.63	117.20	DF1B-18DP-2.5DS(01)
	20	27.5	22.5	H3657-ND	2.11	40.50	129.60	DF1B-20DP-2.5DS(01)
	22	30	25	H3658-ND	2.35	45.13	144.40	DF1B-22DP-2.5DS(01)
	24	32.5	27.5	H3659-ND	2.54	48.88	156.40	DF1B-24DP-2.5DS(01)
	26	35	30	H3660-ND	2.73	52.50	168.00	DF1B-26DP-2.5DS(01)
	28	37.5	32.5	H3661-ND	2.92	56.06	179.40	DF1B-28DP-2.5DS(01)
	30	40	35	H3662-ND	3.19	61.38	196.40	DF1B-30DP-2.5DS(01)
	34	45	40	H3663-ND	3.19	61.88	198.00	DF1B-34DP-2.5DS(01)
	36	47.5	42.5	H3664-ND	3.48	67.50	216.00	DF1B-36DP-2.5DS(01)
	40	52.5	47.5	H3665-ND	3.68	71.44	228.60	DF1B-40DP-2.5DS(01)
IN-LINE PLUGS (order contacts separately)								
Single Row (simple lock type)								
6	2	7.1	—	H3683-ND	.37	4.44	13.25	DF1BA-2EP-2.5RC
	3	9.6	—	H3684-ND	.41	4.86	14.50	DF1BA-3EP-2.5RC
	4	12.1	—	H3685-ND	.46	5.44	16.25	DF1BA-4EP-2.5RC
	5	14.6	—	H3686-ND	.42	6.30	19.74	DF1BA-5EP-2.5RC
	6	17.1	—	H3687-ND	.44	6.53	20.45	DF1BA-6EP-2.5RC
	7	19.6	—	H3688-ND	.47	7.05	22.09	DF1BA-7EP-2.5RC
	8	22.1	—	H3689-ND	.50	7.43	23.27	DF1BA-8EP-2.5RC
	9	24.6	—	H3690-ND	.71	10.58	33.14	DF1BA-9EP-2.5RC
	10	27.1	—	H3691-ND	.57	10.31	33.75	DF1BA-10EP-2.5RC
	11	29.6	—	H3692-ND	.59	10.66	34.88	DF1BA-11EP-2.5RC
	12	32.1	—	H3693-ND	.63	11.48	37.58	DF1BA-12EP-2.5RC
	13	34.6	—	H3694-ND	.65	11.76	38.48	DF1BA-13EP-2.5RC
	15	39.6	—	H3695-ND	.80	14.51	47.48	DF1BA-14EP-2.5RC
Single Row (full lock type)								
7	2	8.9	—	H3733-ND	.32	3.77	11.25	DF1B-2EP-2.5RC
	3	11.4	—	H3734-ND	.37	4.44	13.25	DF1B-3EP-2.5RC
	4	13.9	—	H3735-ND	.42	5.03	15.00	DF1B-4EP-2.5RC
	5	16.4	—	H3736-ND	.46	5.53	16.50	DF1B-5EP-2.5RC
	6	18.9	—	H3737-ND	.50	6.03	18.00	DF1B-6EP-2.5RC
	7	21.4	—	H3738-ND	.45	6.68	20.92	DF1B-7EP-2.5RC
	8	23.9	—	H3739-ND	.48	7.13	22.33	DF1B-8EP-2.5RC
	9	26.4	—	H3740-ND	.51	7.58	23.74	DF1B-9EP-2.5RC
	10	28.9	—	H3741-ND	.54	8.03	25.15	DF1B-10EP-2.5RC
	11	31.4	—	H3742-ND	.57	8.48	26.56	DF1B-11EP-2.5RC
	12	33.9	—	H3743-ND	.59	8.85	27.73	DF1B-12EP-2.5RC
	13	36.4	—	H3744-ND	.63	9.38	29.38	DF1B-13EP-2.5RC
Double Row (simple lock type)								
8	4	8.6	—	H3696-ND	.45	6.75	21.15	DF1BA-4DEP-2.5RC
	6	11.1	—	H3697-ND	.50	7.50	23.50	DF1BA-6DEP-2.5RC
	8	13.6	—	H3698-ND	.53	7.88	24.68	DF1BA-8DEP-2.5RC
	10	16.1	—	H3699-ND	.54	8.10	25.38	DF1BA-10DEP-2.5RC
	12	18.6	—	H3700-ND	.57	8.48	26.56	DF1BA-12DEP-2.5RC
	14	21.1	—	H3701-ND	.59	8.85	27.73	DF1BA-14DEP-2.5RC
	16	23.6	—	H3702-ND	.62	9.23	28.91	DF1BA-16DEP-2.5RC
	18	26.1	—	H3703-ND	.63	9.45	29.61	DF1BA-18DEP-2.5RC
	20	28.6	—	H3704-ND	.67	9.98	31.26	DF1BA-20DEP-2.5RC
	22	31.1	—	H3705-ND	.76	13.75	45.00	DF1BA-22DEP-2.5RC
	24	33.6	—	H3706-ND	.78	14.09	46.13	DF1BA-24DEP-2.5RC
	26	36.1	—	H3707-ND	.79	14.30	46.80	DF1BA-26DEP-2.5RC
	28	38.6	—	H3708-ND	.81	14.71	48.15	DF1BA-28DEP-2.5RC
	30	41.1	—	H3709-ND	.83	15.06	49.28	DF1BA-30DEP-2.5RC
	34	46.1	—	H3710-ND	.86	15.54	50.85	DF1BA-34DEP-2.5RC
Double Row (full lock type)								
9	10	17.2	—	H3711-ND	.77	13.96	45.68	DF1B-10DEP-2.5RC
	12	19.7	—	H3712-ND	.81	14.58	47.70	DF1B-12DEP-2.5RC
	14	22.2	—	H3713-ND	.84	15.19	49.73	DF1B-14DEP-2.5RC
	16	24.7	—	H3714-ND	.87	15.81	51.75	DF1B-16DEP-2.5RC
	18	27.2	—	H3715-ND	.92	16.71	54.68	DF1B-18DEP-2.5RC
	20	29.7	—	H3716-ND	.97	17.60	57.60	DF1B-20DEP-2.5RC
	22	32.2	—	H3717-ND	1.01	18.29	59.85	DF1B-22DEP-2.5RC
	24	34.7	—	H3718-ND	1.05	18.91	61.88	DF1B-24DEP-2.5RC
	26	37.2	—	H3719-ND	1.08	19.53	63.90	DF1B-26DEP-2.5RC
	28	39.7	—	H3720-ND	1.15	20.76	67.95	DF1B-28DEP-2.5RC
	30	42.2	—	H3721-ND	1.19	21.45	70.20	DF1B-30DEP-2.5RC
	32	44.7	—	H3722-ND	1.22	22.07	72.23	DF1B-32DEP-2.5RC
	34	47.2	—	H3723-ND	1.25	22.69	74.25	DF1B-34DEP-2.5RC
SOCKETS (order contacts separately)								
Single Row								
10	2	5	2.5	H3781-ND	.29	3.00	7.44	DF1B-2S-2.5R
	3	7.5	5	H3782-ND	.23	2.54	7.15	DF1B-3S-2.5R
	4	10	7.5	H3783-ND	.24	2.63	7.43	DF1B-4S-2.5R
	5	12.5	10	H3784-ND	.26	2.83	7.98	DF1B-5S-2.5R
	6	15	12.5	H3785-ND	.33	3.61	10.18	DF1B-6S-2.5R
	7	17.5	15	H3786-ND	.35	3.80	10.73	DF1B-7S-2.5R
	8	20	17.5	H3787-ND	.29	3.43	10.25	DF1B-8S-2.5R
	9	22.5	20	H3788-ND	.34	4.10	12.25	DF1B-9S-2.5R
	10	25	22.5	H3789-ND	.36	4.27	12.75	DF1B-10S-2.5R
	11	27.5	25	H3790-ND	.36	4.36	13.00	DF1B-11S-2.5R
	12	30	27.5	H3791-ND	.38	4.52	13.50	DF1B-12S-2.5R
	13	32.5	30	H3792-ND	.39	4.69	14.00	DF1B-13S-2.5R
	14	35	32.5	H3793-ND	.41	4.86	14.50	DF1B-14S-2.5R
	15	37.5	35	H3794-ND	.51	6.11	18.25	DF1B-15S-2.5R
	16	40	37.5	H3795-ND	.53	6.28	18.75	DF1B-16S-2.5R
	18	45	42.5	H3796-ND	.55	6.62	19.75	DF1B-18S-2.5R
	20	50	47.5	H3797-ND	.41	6.15	19.27	DF1B-20S-2.5R
Single Row In-Line (full lock type)								
11	2	6.5	2.5	H3798-ND	.32	3.77	11.25	DF1B-2ES-2.5RC
	3	9	5	H3799-ND	.37	4.44	13.25	DF1B-3ES-2.5RC
	4	11.5	7.5	H3800-ND	.43	5.11	15.25	DF1B-4ES-2.5RC
	5	14	10	H3801-ND	.47	5.61	16.75	DF1B-5ES-2.5RC
	6	16.5	12.5	H3802-ND	.51	6.11	18.25	DF1B-6ES-2.5RC
	7	19	15	H3803-ND	.46	6.90	21.62	DF1B-7ES-2.5RC
	8	21.5	17.5	H3804-ND	.49	7.35	23.03	DF1B-8ES-2.5RC
	9	24	20	H3805-ND	.52	7.80	24.44	DF1B-9ES-2.5RC
	10	26.5	22.5	H3806-ND	.55	8.18	25.62	DF1B-10ES-2.5RC
	11	29	25	H3807-ND	.58	8.63	27.03	DF1B-11ES-2.5RC
	12	31.5	27.5	H3808-ND	.61	9.08	28.44	DF1B-12ES-2.5RC
	13	34	30	H3809-ND	.64	9.53	29.85	DF1B-13ES-2.5RC
Double Row								
12	4	7.5	2.5	H3810-ND	.38	4.52	13.50	DF1B-4DS-2.5RC
	6	10	5	H3811-ND	.41	4.94	14.75	DF1B-6DS-2.5RC
	8	12.5	7.5	H3812-ND	.46	5.44	16.25	DF1B-8DS-2.5RC
12	10	15	10	H3813-ND	.49	5.86	17.50	DF1B-10DS-2.5RC
	12	17.5	12.5	H3814-ND	.53	6.37	19.00	DF1B-12DS-2.5RC
	14	20	15	H3815-ND	.41	6.08	19.04	DF1B-14DS-2.5RC
	16	22.5	17.5	H3816-ND	.43	6.45	20.21	DF1B-16DS-2.5RC
	18	25	20	H3817-ND	.46	6.83	21.39	DF1B-18DS-2.5RC
	20	27.5	22.5	H3818-ND	.50	7.43	23.27	DF1B-20DS-2.5RC
	22	30	25	H3819-ND	.52	7.80	24.44	DF1B-22DS-2.5RC
	24	32.5	27.5	H3820-ND	.56	8.40	26.32	DF1B-24DS-2.5RC
	26	35	30	H3821-ND	.59	8.78	27.50	DF1B-26DS-2.5RC
	28	37.5	32.5	H3822-ND	.62	9.30	29.14	DF1B-28DS-2.5RC
	30	40	35	H3823-ND	.65	9.75	30.55	DF1B-30DS-2.5RC
	34	45	40	H3824-ND	.70	10.50	32.90	DF1B-34DS-2.5RC
	36	47.5	42.5	H3825-ND	.57	10.31	33.75	DF1B-36DS-2.5RC
	40	52.5	47.5	H3826-ND	.59	10.73	35.10	DF1B-40DS-2.5RC
Double Row - In-Line (full lock type)								
13	10	15	10	H3754-ND	.82	14.85	48.60	DF1B-10DES-2.5RC
	12	17.5	12.5	H3755-ND	.86	15.54	50.85	DF1B-12DES-2.5RC
	14	20	15	H3756-ND	.90	16.29	53.33	DF1B-14DES-2.5RC
	16	22.5	17.5	H3757-ND	.94	17.05	55.80	DF1B-16DES-2.5RC
	18	25	20	H3758-ND	1.00	18.01	58.95	DF1B-18DES-2.5RC
	20	27.5	22.5	H3759-ND	1.05	19.04	62.33	DF1B-20DES-2.5RC
	22	30	25	H3760-ND	1.09	19.80	64.80	DF1B-22DES-2.5RC
	24	32.5	27.5	H3761-ND	1.14	20.56	67.28	DF1B-24DES-2.5RC
	26	35	30	H3762-ND	1.18	21.31	69.75	DF1B-26DES-2.5RC
	28	37.5	32.5	H3763-ND	1.25	22.69	74.25	DF1B-28DES-2.5RC
	30	40	35	H3764-ND	1.30	23.44	76.73	DF1B-30DES-2.5RC
	32	42.5	37.5	H3765-ND	1.33	24.13	78.98	DF1B-32DES-2.5RC
	34	45	40	H3766-ND	1.38	24.89	81.45	DF1B-34DES-2.5RC

ID Contacts

AWG	Digi-Key Part No.	*Loose Piece* Pricing 1	25	100	Hirose Part No.	*Cut Tape** Pricing 1,000	3,000	5,000	*T & R †* Pricing 10,000	Hirose Part No.
Plug Contacts										
Tin Plating										
24	H3835-ND	.23	2.44	6.88	DF1B-24PR	33.60	30.45/M	28.35/M	27.00/M	DF1B-24PRF
26	H3839-ND	.23	2.44	6.88	DF1B-26PR	33.60	30.45/M	28.35/M	27.00/M	DF1B-26PRF
28	H3843-ND	.23	2.44	6.88	DF1B-28PR	33.60	30.45/M	28.35/M	27.00/M	DF1B-28PRF
Gold Plating										
24	H3837-ND	.35	3.80	10.73	DF1B-24PRB	54.00	50.40/M	46.80/M	45.00/M	DF1B-24PRFB
26	H3841-ND	.35	3.80	10.73	DF1B-26PRB	54.00	50.40/M	46.80/M	45.00/M	DF1B-26PRFB
28	H3845-ND	.35	3.80	10.73	DF1B-28PRB	54.00	50.40/M	46.80/M	45.00/M	DF1B-28PRFB
Socket Contacts										
Tin Plating										
24	H3836-ND	.18	1.88	4.65	DF1B-R24	19.20	17.40/M	16.20/M	15.00/M	DF1B-R24F
26	H3840-ND	.18	1.88	4.65	DF1B-R26	19.20	17.40/M	16.20/M	15.00/M	DF1B-R26F
28	H3844-ND	.18	1.88	4.65	DF1B-R28	19.20	17.40/M	16.20/M	15.00/M	DF1B-R28F
Gold Plating										
24	H3838-ND	.38	4.52	13.50	DF1B-R24A	64.40	62.10/M	58.65/M	58.00/M	DF1B-R24FA
26	H3842-ND	.38	4.52	13.50	DF1B-R26A	64.40	62.10/M	58.65/M	58.00/M	DF1B-R26FA
28	H3846-ND	.38	4.52	13.50	DF1B-R28A	64.40	62.10/M	58.65/M	58.00/M	DF1B-R28FA

* For Cut Tape, add CT to the Digi-Key Part No.
† For Tape and Reel, add TR to the Digi-Key Part No.

Crimping Contacts

AWG	Digi-Key Part No.	*Loose Piece* Pricing 1	25	100	Hirose Part No.	*Cut Tape** Pricing 1,000	3,000	*T & R †* Pricing 10,000	Hirose Part No.
Plug Contacts									
Tin Plating									
20-22	H3827-ND	.29	3.00	7.44	DF1B-2022PC	32.00	29.00/M	26.00/M	DF1B-2022PCF
24-28	H3831-ND	.25	2.63	6.51	DF1B-2428PC	27.20	24.65/M	22.00/M	DF1B-2428PCF
30	H3847-ND	.28	2.88	7.13	DF1B-30PC	28.80	26.10/M	23.00/M	DF1B-30PCF
Gold Plating									
20-22	H3829-ND	.41	4.86	14.50	DF1B-2022PCB	70.00	67.50/M	63.00/M	DF1B-2022PCFB
24-28	H3833-ND	.58	8.63	27.03	DF1-PD2428SCB	96.60	93.15/M	86.00/M	DF1-PD2428SCFB
30	H3849-ND	.44	5.28	15.75	DF1B-30PCB	75.60	72.90/M	68.00/M	DF1B-30PCFB
Socket Contacts									
Tin Plating									
20-22	H3828-ND	.22	2.25	5.58	DF1B-2022SC	24.00	21.75/M	19.00/M	DF1B-2022SCF
24-28	H3832-ND	.22	2.25	5.58	DF1B-2428SC	22.40	20.30/M	18.00/M	DF1B-2428SCF
30	H3848-ND	.22	2.25	5.58	DF1B-30SC	22.40	20.30/M	18.00/M	DF1B-30SCF
Gold Plating									
20-22	H3830-ND	.31	3.69	11.00	DF1B-2022SCA	55.50	51.80/M	46.00/M	DF1B-2022SCFA
24-28	H3834-ND	.34	3.71	10.45	DF1B-2428SCA	43.50	40.60/M	36.00/M	DF1B-2428SCFA
30	H3850-ND	.34	3.71	10.45	DF1B-30SCA	43.50	40.60/M	36.00/M	DF1B-30SCFA

* For Cut Tape, add CT to the Digi-Key Part No.
† For Tape and Reel, add TR to the Digi-Key Part No.

Tools

Description	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Manual ID Tools					
24-28AWG, Plug	H9934-ND	1001.00	—	—	DF1B-T2428HPR
24-28AWG, Socket	H9933-ND	793.00	—	—	DF1B-T2428HR
Manual Crimping Tools					
20-22AWG, Plug	H9935-ND	793.00	—	—	DF1B-TA2022PHC
24-28AWG, Plug	H9937-ND	806.00	—	—	DF1B-TA2428PHC
30AWG, Plug	H9939-ND	806.00	—	—	DF1B-TA30PHC
20-22AWG, Socket	H9936-ND	793.00	—	—	DF1B-TA2022SHC
24-28AWG, Socket	H9938-ND	806.00	—	—	DF1B-TA2428SHC
30AWG, Socket	H9940-ND	806.00	—	—	DF1B-TA30SHC
Extraction Tools					
ID Socket	H9930-ND	2.90	56.25	180.00	DF-C-PO(A)
ID/Crimp Pin	H9932-ND	11.40	—	—	DF-C-PO(C)

HIROSE ELECTRIC CO.,LTD.

DF1E Series Connectors

2.5 Pitch for Full Lock and Discrete Wire Connection

Features: • The inner lock system adopts a full lock mechanism. This mechanism prevents disengagement to occur due to an unexpected external shock • The double lock is activated for the use method to give a stress to the cable, to increase crimping contact fixation force, and to prevent the semi-insertion of the crimping contact • Equipped with the mechanism to completely prevent reverse insertion and insertion between dissimilar contacts

Applications: • Electronic equipment • Office machines • Industrial equipment • Consumer equipment

Specifications: • UL: E52653 • Current Rating: 20-22AWG: 3A, 24-28AWG: 1A and 30AWG: 0.5A • Voltage Rating: 30VAC • Operating Temperature Range: -35°C ~ 85°C • Operating Moisture Range: 20% ~ 80% • Insulation Resistance: 500VDC, 1000MΩ minimum • Withstanding Voltage: 1 minimum at rated value, 650VAC (no flashover or insulation breakdown) • Contact Resistance: Measured at 20mV maximum and 1mA, 30mΩ maximum

Material: • Insulator: Polyamide, white, UL94V-0 (header insulator: beige and retainer insulator: black) • Contacts: Crimping: Phosphor copper with tin plating Header: Brass with solder plating

Fig. 1

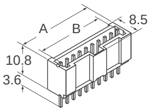

Fig. 2

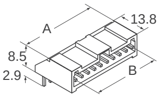

Fig. 3

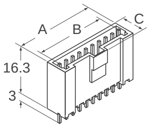

Fig. 4

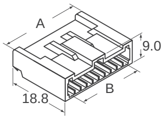

Fig. 5

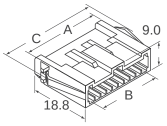

Fig. 6

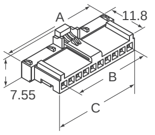

Fig. 7

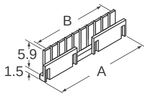

Fig.	No. of Contacts	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
					Pin Headers (Tin Plating)				
					Vertical				
1	2	7.5	2.5	—	H3591-ND	.38	4.52	13.50	DF1EC-2P-2.5DSA
	3	10.0	5.0	—	H3592-ND	.45	5.36	16.00	DF1EC-3P-2.5DSA
	4	12.5	7.5	—	H3593-ND	.52	6.20	18.50	DF1EC-4P-2.5DSA
	5	15.0	10.0	—	H3594-ND	.42	6.30	19.74	DF1EC-5P-2.5DSA
	6	17.5	12.5	—	H3595-ND	.55	8.18	25.62	DF1EC-6P-2.5DSA
	7	20.0	15.0	—	H3596-ND	.60	9.00	28.20	DF1EC-7P-2.5DSA
	8	22.5	17.5	—	H3597-ND	.66	9.83	30.79	DF1EC-8P-2.5DSA
	9	25.0	20.0	—	H3598-ND	.71	10.65	33.37	DF1EC-9P-2.5DSA
	10	27.5	22.5	—	H3599-ND	.59	10.73	35.10	DF1EC-10P-2.5DSA
	11	30.0	25.0	—	H3600-ND	.74	13.48	44.10	DF1EC-11P-2.5DSA
	12	32.5	27.5	—	H3601-ND	.78	14.16	46.35	DF1EC-12P-2.5DSA
	13	35.0	30.0	—	H3602-ND	.82	14.85	48.60	DF1EC-13P-2.5DSA
	14	37.5	32.5	—	H3603-ND	.86	15.54	50.85	DF1EC-14P-2.5DSA
	15	40.0	35.0	—	H3604-ND	.90	16.23	53.10	DF1EC-15P-2.5DSA
					Right Angle				
2	2	7.5	2.5	—	H3577-ND	.43	5.19	15.50	DF1E-2P-2.5DS
	3	10.0	5.0	—	H3578-ND	.50	6.03	18.00	DF1E-3P-2.5DS
	4	12.5	7.5	—	H3579-ND	.41	6.15	19.27	DF1E-4P-2.5DS
	5	15.0	10.0	—	H3580-ND	.46	6.90	21.62	DF1E-5P-2.5DS
	6	17.5	12.5	—	H3581-ND	.60	8.93	27.97	DF1E-6P-2.5DS
	7	20.0	15.0	—	H3582-ND	.65	9.68	30.32	DF1E-7P-2.5DS
	8	22.5	17.5	—	H3583-ND	.72	10.73	33.61	DF1E-8P-2.5DS
	9	25.0	20.0	—	H3584-ND	.59	10.59	34.65	DF1E-9P-2.5DS
	10	27.5	22.5	—	H3585-ND	.66	11.96	39.15	DF1E-10P-2.5DS
	11	30.0	25.0	—	H3586-ND	.82	14.78	48.38	DF1E-11P-2.5DS
	12	32.5	27.5	—	H3587-ND	.86	15.47	50.63	DF1E-12P-2.5DS
	13	35.0	30.0	—	H3588-ND	.89	16.16	52.88	DF1E-13P-2.5DS
	14	37.5	32.5	—	H3589-ND	.93	16.84	55.13	DF1E-14P-2.5DS
	15	40.0	35.0	—	H3590-ND	.97	17.53	57.38	DF1E-15P-2.5DS
					Vertical for Potting				
3	2	7.5	2.5	7.8	H3605-ND	.42	6.23	19.51	DF1EG-2P-2.5DSA
	3	10.0	5.0	7.8	H3606-ND	.48	7.20	22.56	DF1EG-3P-2.5DSA
	4	12.5	7.5	7.8	H3607-ND	.54	8.10	25.38	DF1EG-4P-2.5DSA
	5	15.0	10.0	8.0	H3608-ND	.61	9.08	28.44	DF1EG-5P-2.5DSA
	6	17.5	12.5	8.0	H3609-ND	.68	10.13	31.73	DF1EG-6P-2.5DSA
	7	20.0	15.0	8.0	H3610-ND	.74	11.10	34.78	DF1EG-7P-2.5DSA
	8	22.5	17.5	8.0	H3611-ND	.62	11.21	36.68	DF1EG-8P-2.5DSA
	9	25.0	20.0	8.0	H3612-ND	.67	12.10	39.60	DF1EG-9P-2.5DSA
	10	27.5	22.5	8.0	H3613-ND	.73	13.27	43.43	DF1EG-10P-2.5DSA
	11	30.0	25.0	8.0	H3614-ND	.75	13.61	44.55	DF1EG-11P-2.5DSA
					In-Line Plugs				
4	2	8.0	2.5	—	H3724-ND	.57	8.55	26.79	DF1EA-2EP-2.5C
	3	10.5	5.0	—	H3725-ND	.63	9.38	29.38	DF1EA-3EP-2.5C
	4	13.0	7.5	—	H3726-ND	.69	10.28	32.20	DF1EA-4EP-2.5C
	5	15.5	10.0	—	H3727-ND	.74	11.10	34.78	DF1EA-5EP-2.5C
	6	18.0	12.5	—	H3728-ND	.60	10.93	35.78	DF1EA-6EP-2.5C
	7	20.5	15.0	—	H3729-ND	.65	11.76	38.48	DF1EA-7EP-2.5C
	8	23.0	17.5	—	H3730-ND	.69	12.51	40.95	DF1EA-8EP-2.5C
	9	25.5	20.0	—	H3731-ND	.74	13.34	43.65	DF1EA-9EP-2.5C
	10	28.0	22.5	—	H3732-ND	.78	14.09	46.13	DF1EA-10EP-2.5C
					Panel Mount Lock Type				
5	2	8.0	2.5	15.0	H3745-ND	.57	8.55	26.79	DF1E-2EP-2.5C
	3	10.5	5.0	17.5	H3746-ND	.63	9.38	29.38	DF1E-3EP-2.5C
	4	13.0	7.5	20.0	H3747-ND	.69	10.28	32.20	DF1E-4EP-2.5C
	5	15.5	10.0	22.5	H3748-ND	.74	11.10	34.78	DF1E-5EP-2.5C
	6	18.0	12.5	25.0	H3749-ND	.60	10.93	35.78	DF1E-6EP-2.5C
	7	20.5	15.0	27.5	H3750-ND	.65	11.76	38.48	DF1E-7EP-2.5C
	8	23.0	17.5	30.0	H3751-ND	.69	12.51	40.95	DF1E-8EP-2.5C
	9	25.5	20.0	32.5	H3752-ND	.74	13.34	43.65	DF1E-9EP-2.5C
	10	28.0	22.5	35.0	H3753-ND	.78	14.09	46.13	DF1E-10EP-2.5C
					Sockets				
6	2	8.0	2.5	5.4	H3767-ND	.32	3.51	9.90	DF1E-2S-2.5C
	3	10.5	5.0	7.9	H3768-ND	.29	3.43	10.25	DF1E-3S-2.5C
	4	13.0	7.5	10.4	H3769-ND	.32	3.77	11.25	DF1E-4S-2.5C
	5	15.5	10.0	12.9	H3770-ND	.34	4.10	12.25	DF1E-5S-2.5C
	6	18.0	12.5	15.4	H3771-ND	.50	6.03	18.00	DF1E-6S-2.5C
	7	20.5	15.0	17.9	H3772-ND	.54	6.45	19.25	DF1E-7S-2.5C
	8	23.0	17.5	20.4	H3773-ND	.41	6.08	19.04	DF1E-8S-2.5C
	9	25.5	20.0	22.9	H3774-ND	.43	6.45	20.21	DF1E-9S-2.5C
	10	28.0	22.5	25.4	H3775-ND	.45	6.75	21.15	DF1E-10S-2.5C
	11	30.5	25.0	27.9	H3776-ND	.62	9.23	28.91	DF1E-11S-2.5C
	12	33.0	27.5	30.4	H3777-ND	.64	9.60	30.08	DF1E-12S-2.5C
	13	35.5	30.0	32.9	H3778-ND	.66	9.90	31.02	DF1E-13S-2.5C
	14	38.0	32.5	35.4	H3779-ND	.69	10.28	32.20	DF1E-14S-2.5C
	15	40.5	35.0	37.9	H3780-ND	.71	10.58	33.14	DF1E-15S-2.5C

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
				Retainers				
7	2	8.0	2.5	H3855-ND	.35	4.19	12.50	DF1E-2RS/P-2.5
	3	10.5	5.0	H3856-ND	.36	4.36	13.00	DF1E-3RS/P-2.5
	4	13.0	7.5	H3857-ND	.38	4.52	13.50	DF1E-4RS/P-2.5
	5	15.5	10.0	H3858-ND	.39	4.69	14.00	DF1E-5RS/P-2.5
	6	18.0	12.5	H3859-ND	.41	4.86	14.50	DF1E-6RS/P-2.5
	7	20.5	15.0	H3860-ND	.42	5.03	15.00	DF1E-7RS/P-2.5
	8	23.0	17.5	H3861-ND	.43	5.19	15.50	DF1E-8RS/P-2.5
	9	25.5	20.0	H3862-ND	.45	5.36	16.00	DF1E-9RS/P-2.5
	10	28.0	22.5	H3863-ND	.46	5.53	16.50	DF1E-10RS/P-2.5

Contacts

AWG	Digi-Key Part No.	Loose Piece Pricing 1	25	100	Hirose Part No.	Cut Tape* Pricing 1,000	3,000	T & R† Pricing 10,000	Hirose Part No.
					Plug Contacts - Tin Plated (annealed copper wire)				
20-22	H3851-ND	.24	2.63	7.43	DF1E-2022PC	17.60	15.95/M	14.00/M	DF1E-2022PCF
24-28	H3853-ND	.24	2.63	7.43	DF1E-2428PC	17.60	15.95/M	14.00/M	DF1E-2428PCF
30	H3854-ND	.24	2.63	7.43	DF1E-30PC	17.60	15.95/M	14.00/M	DF1E-30PCF
					Socket Crimping Contacts - Tin Plated (annealed copper wire)				
20-22	H3852-ND	.23	2.44	6.88	DF1E-2022SC	14.40	13.05/M	11.00/M	DF1E-2022SCF
20-22	H3828-ND	.22	2.25	5.58	DF1B-2022SC	24.00	21.75/M	19.00/M	DF1B-2022SCF
24-28	H3832-ND	.22	2.25	5.58	DF1B-2428SC	22.40	20.30/M	18.00/M	DF1B-2428SCF
30	H3848-ND	.22	2.25	5.58	DF1B-30SC	22.40	20.30/M	18.00/M	DF1B-30SCF

* For Cut Tape part number, change -ND to CT-ND.
† For Tape and Reel part number, change -ND to TR-ND.

Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
	Manual Crimping Tool		
20-22AWG, Pin	H9942-ND	1066.00	HT102-DF1BE-2022P
24-28AWG, Pin	H9943-ND	1066.00	HT102/DF1BE-2028P
30AWG, Pin	H9944-ND	1027.00	HT102/DF1BE-30P
20-22AWG, DF1E Socket	H9941-ND	1027.00	HT102/DF1E-2022S
20-22AWG, DF1B Socket	H9936-ND	793.00	DF1B-TA2022SHC
24-28AWG, Socket	H9938-ND	806.00	DF1B-TA2428SHC
30AWG, Socket	H9940-ND	806.00	DF1B-TA30SHC
	Extraction Tool		
Crimp Pin and Socket	H9996-ND	2.90	DF-C-PO(B)

HIROSE ELECTRIC CO.,LTD. DF7 Series Connectors

3.96mm Pitch Miniature Connectors for Secondary Power Supplies (UL, C-UL and TÜV Approved Items)

Features: • Positive locking feature; a complete locking function utilizing an internal system is used in these connectors. This prevents release due to external shock • Usable at maximum current capacity. A maximum current carrying capacity of 10A is permitted when 16AWG wire is used.

Applications: • Secondary power supply circuits of a wide variety of electronic, office, industrial, and consumer equipment.

Specifications: • Rated Current: 22AWG: 4A, 20AWG: 5A, 18AWG: 7A and 16AWG: 10A • Rated Voltage: C-UL; AC600V TÜV; 7.92mm pitch - AC600V, 3.96mm pitch - AC300V • File No. C-UL: E52653 TUV: R9750437 • Contact Resistance: 10mΩ or less (initial) • Insulation Resistance: 1,000MΩ or greater • Single Unit Insertion and Withdrawal Life: 0.3 N minimum, 4.5 N maximum • Insertion/ Withdrawal Life: 20mΩ or less

Materials: • Sockets: Insulation, polyimide resin, natural (white, UL94V-0) • Headers: Insulation, polyimide (glass strengthened product), natural (beige), UL94V-0 • Contacts: copper alloy with tin or gold plating • In-Line Plugs: Insulation, polyimide resin, natural (white), UL94V-0 • Retainers: Insulation, polyimide resin, black, UL94V-0 • Crimp Terminals: Contacts, copper alloy with tin or gold plating

Fig. 1

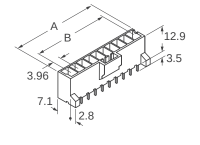

Fig. 2

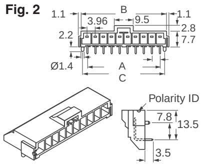

Fig. 3

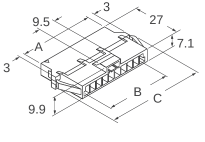

Fig. 4

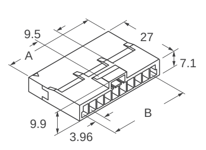

Fig. 5

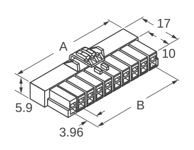

Fig. 6

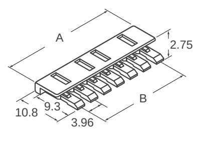

Fig.	No. of Contacts	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Pin Headers									
Vertical — Tin Plating									
1	1	—	—	—	H3472-ND	.52	6.20	18.50	DF7-1P-3.96DSA
	2	10.40	3.96	—	H2669-ND	.46	6.83	21.39	DF7-2P-3.96DSA
	3	14.36	7.92	—	H2670-ND	.55	8.25	25.85	DF7-3P-3.96DSA
	4	18.32	11.88	—	H2671-ND	.64	9.60	30.08	DF7-4P-3.96DSA
	5	22.28	15.84	—	H2672-ND	.60	10.93	35.78	DF7-5P-3.96DSA
	6	26.24	19.80	—	H2673-ND	.67	12.17	39.83	DF7-6P-3.96DSA
	7	30.20	23.76	—	H2674-ND	.74	13.48	44.10	DF7-7P-3.96DSA
	8	34.16	27.72	—	H2675-ND	.90	16.29	53.33	DF7-8P-3.96DSA
	9	38.12	31.68	—	H2676-ND	.98	17.67	57.83	DF7-9P-3.96DSA
	10	42.08	35.64	—	H2677-ND	1.06	19.18	62.78	DF710P-3.96DSA
	2*	14.36	7.92	—	H2678-ND	.55	8.25	25.85	DF7-2P-7.92DSA
	3*	22.28	15.84	—	H2679-ND	.75	11.18	35.02	DF7-3P-7.92DSA
Vertical — Tin Plating; without Guide Posts									
1	2	10.40	3.96	—	H3463-ND	.40	6.00	18.80	DF7C-2P-3.96DSA
	3	14.36	7.92	—	H3464-ND	.45	6.75	21.15	DF7C-3P-3.96DSA
	4	18.32	11.88	—	H3465-ND	.64	9.60	30.08	DF7C-4P-3.96DSA
	5	22.28	15.84	—	H3466-ND	.60	10.93	35.78	DF7C-5P-3.96DSA
	6	26.24	19.80	—	H3467-ND	.57	10.31	33.75	DF7C-6P-3.96DSA
	7	30.20	23.76	—	H3468-ND	.61	11.00	36.00	DF7C-7P-3.96DSA
	8	34.16	27.72	—	H3469-ND	.90	16.29	53.33	DF7C-8P-3.96DSA
	9	38.12	31.68	—	H3470-ND	.80	14.44	47.25	DF7C-9P-3.96DSA
	10	42.08	35.64	—	H3471-ND	1.06	19.18	62.78	DF7C-10P-3.96DSA
Vertical — Gold Plating									
1	3	14.36	7.92	—	H3455-ND	1.24	22.34	73.13	DF7-3P-3.96DSA(01)
	4	18.32	11.88	—	H3456-ND	1.36	24.61	80.55	DF7-4P-3.96DSA(01)
	5	22.28	15.84	—	H3457-ND	1.57	28.46	93.15	DF7-5P-3.96DSA(01)
	6	26.24	19.80	—	H3458-ND	1.71	30.94	101.25	DF7-6P-3.96DSA(01)
	7	30.20	23.76	—	H3459-ND	1.84	33.21	108.68	DF7-7P-3.96DSA(01)
	8	34.16	27.72	—	H3460-ND	1.83	35.13	112.40	DF7-8P-3.96DSA(01)
	9	38.12	31.68	—	H3461-ND	1.94	37.25	119.20	DF7-9P-3.96DSA(01)
	10	42.08	35.64	—	H3462-ND	2.04	39.31	125.80	DF7-10P-3.96DSA(01)
Right-Angle — Tin Plating									
2	2	3.96	10.40	8.40	H2680-ND	.53	7.95	24.91	DF7-2P-3.96DS
	3	7.92	14.36	12.36	H2681-ND	.63	9.45	29.61	DF7-3P-3.96DS
	4	11.88	18.32	16.32	H2682-ND	.74	11.03	34.55	DF7-4P-3.96DS
	5	15.84	22.28	20.28	H2683-ND	.69	12.51	40.95	DF7-5P-3.96DS
	6	19.80	26.24	24.24	H2684-ND	.77	13.89	45.45	DF7-6P-3.96DS
	7	23.76	30.20	28.20	H2685-ND	.85	15.33	50.18	DF7-7P-3.96DS
	8	27.72	34.16	32.16	H2686-ND	1.04	18.77	61.43	DF7-8P-3.96DS
	10	35.64	42.08	40.08	H2688-ND	1.20	21.66	70.88	DF7-10P-3.96DS
	2†	7.92	14.36	12.36	H2689-ND	.66	9.90	31.02	DF7-2P-7.92DS
	3†	15.84	22.28	20.28	H2690-ND	.69	12.51	40.95	DF7-3P-7.92DS
Right-Angle — Gold Plating									
2	3	7.92	14.36	12.36	H3446-ND	1.50	27.23	89.10	DF7-3P-3.96DS(01)
	4	11.88	18.32	16.32	H3447-ND	1.64	29.70	97.20	DF7-4P-3.96DS(01)
	5	15.84	22.28	20.28	H3448-ND	1.85	33.48	109.58	DF7-5P-3.96DS(01)
	6	19.80	26.24	24.24	H3449-ND	1.70	32.69	104.60	DF7-6P-3.96DS(01)
	7	23.76	30.20	28.20	H3450-ND	1.82	34.94	111.80	DF7-7P-3.96DS(01)
	8	27.72	34.16	32.16	H3451-ND	2.06	39.56	126.60	DF7-8P-3.96DS(01)
	9	31.68	38.12	36.12	H3452-ND	2.17	41.81	133.80	DF7-9P-3.96DS(01)
	10	35.64	42.08	40.08	H3453-ND	2.29	44.06	141.00	DF7-10P-3.96DS(01)
Plugs									
In-Line — Panel Lock Type									
3	1	6.44	—	13.96	H3473-ND	.31	3.69	11.00	DF7-1EP-3.96C
	2	10.40	3.96	17.40	H2691-ND	.34	4.02	12.00	DF7-2EP-3.96C
	3	14.36	7.92	21.36	H2692-ND	.39	4.61	13.75	DF7-3EP-3.96C
	4	18.32	11.88	25.32	H2693-ND	.44	5.28	15.75	DF7-4EP-3.96C
3	5	22.28	15.84	29.28	H2694-ND	.63	11.48	37.58	DF7-5EP-3.96C
	6	26.24	19.80	33.24	H2695-ND	.69	12.51	40.95	DF7-6EP-3.96C
	7	30.20	23.76	37.20	H2696-ND	.73	13.27	43.43	DF7-7EP-3.96C
	8	34.16	27.72	41.16	H2697-ND	.78	14.09	46.13	DF7-8EP-3.96C
	9	38.12	31.68	45.12	H2698-ND	.82	14.85	48.60	DF7-9EP-3.96C
	10	42.08	35.64	49.08	H2699-ND	.87	15.68	51.30	DF7-10EP-3.96C
In-Line									
4	1	6.44	—	—	H3474-ND	.31	3.69	11.00	DF7A-1EP-3.96C
	2	10.40	3.96	—	H2700-ND	.34	4.02	12.00	DF7A-2EP-3.96C
	3	14.36	7.92	—	H2701-ND	.39	4.61	13.75	DF7A-3EP-3.96C
	4	18.32	11.88	—	H2702-ND	.44	5.28	15.75	DF7A-4EP-3.96C
	5	22.28	15.84	—	H2703-ND	.63	11.48	37.58	DF7A-5EP-3.96C
	6	26.24	19.80	—	H2704-ND	.69	12.51	40.95	DF7A -6EP-3.96C
	7	30.20	23.76	—	H2705-ND	.73	13.27	43.43	DF7A-7EP-3.96C
	9	38.12	31.68	—	H2707-ND	.82	14.85	48.60	DF7A-9EP-3.96C
	10	42.08	35.64	—	H2708-ND	.87	15.68	51.30	DF7A-10EP-3.96C
Sockets									
5	2	10.00	3.96	—	H2709-ND	.32	3.51	9.90	DF7-2S-3.96C
	3	13.96	7.92	—	H2710-ND	.30	3.60	10.75	DF7-3S-3.96C
	4	17.92	11.88	—	H2711-ND	.34	4.10	12.25	DF7-4S-3.96C
	5	21.88	15.84	—	H2712-ND	.48	5.70	17.00	DF7-5S-3.96C
	6	25.84	19.80	—	H2713-ND	.53	6.28	18.75	DF7-6S-3.96C
	7	29.80	23.76	—	H2714-ND	.41	6.15	19.27	DF7-7S-3.96C
	8	33.76	27.72	—	H2715-ND	.60	9.00	28.20	DF7-8S-3.96C
	9	37.72	31.68	—	H2716-ND	.64	9.53	29.85	DF7-9S-3.96C
	10	41.68	35.64	—	H2717-ND	.69	10.28	32.20	DF7-10S-3.96C
Retainers for both Sockets and In-Line Plugs									
6	1	—	—	—	H3475-ND	.27	2.93	8.25	DF7-1RS/P-3.96
	2	10.00	3.96	—	H2718-ND	.32	3.51	9.90	DF7-2RS/P-3.96
	3	13.96	7.92	—	H2719-ND	.28	3.35	10.00	DF7-3RS/P-3.96
	4	17.92	11.88	—	H2720-ND	.30	3.60	10.75	DF7-4RS/P-3.96
	5	21.88	15.84	—	H2721-ND	.47	5.61	16.75	DF7-5RS/P-3.96
	6	25.84	19.80	—	H2722-ND	.50	6.03	18.00	DF7-6RS/P-3.96
	7	29.80	23.76	—	H2723-ND	.54	6.45	19.25	DF7-7RS/P-3.96
	8	33.76	27.72	—	H2724-ND	.42	6.30	19.74	DF7-8RS/P-3.96
	9	37.72	31.68	—	H2725-ND	.45	6.75	21.15	DF7-9RS/P-3.96
	10	41.68	35.64	—	H2726-ND	.48	7.13	22.33	DF7-10RS/P-3.96

* DF7-2P-7.92DSA is DF7-3P-3.96DSA with No. 2 pin removed and the number of contacts are indicated as 2.
DF7-3P-7.92DSA is DF7-5P-3.96DSA with No. 2 and 4 pins removed and the number of contacts are indicated as 3.

† DF7-2P-7.92DS is DF7-3P-3.96DS with No. 2 pin removed and the number of contacts are indicated as 2.
DF7-3P-7.92DS is DF7-5P-3.96DS with No. 2 and 4 pins removed and the number of contacts are indicated as 3.

Crimp Terminals

Desc.	Digi-Key Part No.	*Loose Piece* Pricing 100	Hirose Part No.	*Cut Tape** Pricing 100	500	1,000	*Tape and Reel †* Size	Pricing	Hirose Part No.
Female — Tin Plating									
16-18	H2728-ND	9.35	DF7-1618SC	6.51	22.05	33.60	3,000	30.00/M	DF7-1618SCF
20-22	H2730-ND	9.35	DF7-2022SC	6.51	22.05	33.60	3,000	30.00/M	DF7-2022SCF
Female — Gold Plating									
16-18	H3478-ND	18.80	DF7-1618SCA	16.25	58.50	91.00	3,000	88.00/M	DF7-1618SCFA
20-22	H3479-ND	18.80	DF7-2022SCA	16.25	58.50	91.00	3,000	88.00/M	DF7-2022SCFA
Male — Tin Plating									
16-18	H2732-ND	10.45	DF7-1618PC	6.88	23.75	37.50	3,000	35.00/M	DF7-1618PCF
20-22	H2734-ND	10.45	DF7-2022PC	6.88	23.75	37.50	3,000	35.00/M	DF7-2022PCF
Male — Gold Plating									
16-18	H3476-ND	20.21	DF7-1618PCA	18.25	65.70	102.20	3,000	99.00/M	DF7-1618PCFA
20-22	H3477-ND	20.21	DF7-2022PCA	18.25	65.70	102.20	3,000	99.00/M	DF7-2022PCFA
Tools									
Manual Crimper for DF7 Series 16-18AWG	H9986-ND				1430.00/1				HT104/DF7-1618
Manual Crimper for DF7 Series 20-22AWG	H9987-ND				1430.00/1				HT104/DF7-2022

* For Cut Tape, add CT to the Digi-Key Part No. (H2728CT-ND)
† For Tape and Reel, add TR to the Digi-Key Part No. (H2728TR-ND)

Power Supply Connectors – PX Series

Features: • Power supply connector for high-current withstands voltage of 2200V AC maximum and 10A/contact (60A/6 contacts) of rated current. • Housing design prevents incorrect insertion; opening section is designed to prevent reverse insertion and mating direction is easily checked. The opening section is keyed to prevent misalignment of plugs in parallel applications. • Reliable contact structure; three point contact, gold plated contacts (standard) with high-level environmental resistance, contact spring guard structure, structure prevents retainer deformation.

Specifications: • **Temperature Range:** -55°C ~ 105°C • **Voltage:** AC600V • **Current:** 10A • **Contact Resistance:** 10mΩ maximum measured at 100mA • **Insulation Resistance:** 1000MΩ minimum measured at DC 500V **Material:** • Contacts: Copper alloy, gold plating • Insulator: PBT resin (UL94V-0) • Metal Fixture: Copper alloy, solder plating

Fig. 1 - Receptacle

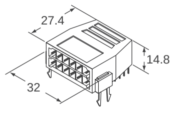

Fig. 2 - Plug

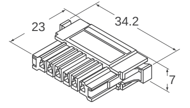

Note: Two plugs are needed for each receptacle.

Fig. 3 - Plug Holder Cover

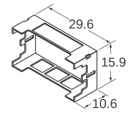

Note: Cover holds two plugs.

Fig.	No. of Circuits	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	H10068-ND	6.00	4.97	4.14	PX10-AD4WP
	12	H10069-ND	5.42	4.49	3.74	PX10-AF6WP
2	4	H10071-ND	1.89	1.57	1.31	PX50-AD4S
	6	H10072-ND	2.44	2.03	1.69	PX50-AF6S
3	4	H10070-ND	1.66	1.38	1.15	PX-4WS-CV
	6	H10074-ND	2.37	1.98	1.65	PX-6WS-CV
—	Female Terminal, 16-18AWG	H10073-ND	—	.50	.41	PX50-SC-131

HIROSE
ELECTRIC
CO.,LTD.

DF5 Series Connectors

5mm Pitch Miniature Connectors for Secondary Power Supplies

Features: • Capable of potting 9mm maximum • Outer lock system employs full lock mechanism
Applications: • Business machines, industrial equipment, consumer appliances (hot water supply, washing machines, refrigerator) etc.
Specifications: • Insulation Resistance: 500VDC, 1000MΩ minimum • Withstanding Voltage: 1 minute at rated value, 1500VAC (no flashover or insulation breakdown) • Contact Resistance: Measured at 100mA, 30mΩ maximum
Materials: • Crimping Socket Insulator: Polyamide, white, UL 94V-0 • Crimping Contact for Socket Contact: Phosphor bronze, tin plating • Pin Header Insulator: Polyamide, beige, UL94V-0 • Pin Header Contact: Brass, tin leading

	No. of Rows	No. of Contacts	AWG #18	AWG #20	AWG #22		
Current Rating	Single Row	2 ~ 10	8A	6A	5A	Operating Temperature Range	-35°C ~ 85°C
	Double Row	4	8A	6A	5A		
		6	8A	6A	5A	Operating Moisture Range	20% ~ 80%
		8	7A	6A	5A		
		10	7A	6A	5A	Storage Temperature Range	-10°C ~ 60°C
		12	7A	6A	4A		
		14	7A	5A	4A		
		16	7A	5A	4A	Storage Humidity Range	40% ~ 70%
Voltage Rating	500VAC						

Fig. 1

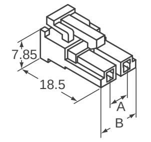

Fig. 2

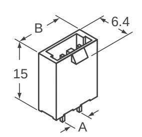

Fig. 3

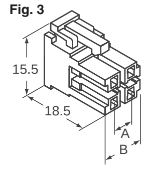

Fig. 4

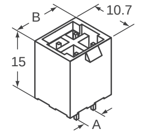

Fig.	No. of Contacts	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Single Row Socket								
1	2	5.0	10.5	H1900-ND	.38	4.52	13.50	DF5A-2S-5C
	3	10.0	15.5	H1901-ND	.40	6.00	18.80	DF5A-3S-5C
	4	15.0	20.5	H1902-ND	.44	6.60	20.68	DF5A-4S-5C
	5	20.0	25.5	H1903-ND	.47	7.05	22.09	DF5A-5S-5C
	6	25.0	30.5	H1904-ND	.50	7.50	23.50	DF5A-6S-5C
	7	30.0	35.5	H1905-ND	.66	9.90	31.02	DF5A-7S-5C
	8	35.0	40.5	H1906-ND	.69	10.35	32.43	DF5A-8S-5C
	9	40.0	45.5	H1907-ND	.72	10.80	33.84	DF5A-9S-5C
	10	45.0	50.5	H1908-ND	.58	10.45	34.20	DF5A-10S-5C
Single Row Pin Header								
2	3	10.0	17.5	H1910-ND	.50	7.50	23.50	DF5A-3P-5DSA
	4	15.0	22.5	H1911-ND	.75	11.18	35.02	DF5A-4P-5DSA
	5	20.0	27.5	H1912-ND	.85	12.75	39.95	DF5A-5P-5DSA
	7	30.0	37.5	H1914-ND	.72	13.06	42.75	DF5A-7P-5DSA
	8	35.0	42.5	H1915-ND	.80	14.44	47.25	DF5A-8P-5DSA
	9	40.0	47.5	H1916-ND	.91	16.50	54.00	DF5A-9P-5DSA
	10	45.0	52.5	H1917-ND	.99	17.88	58.50	DF5A-10P-5DSA
NEW! Single Row Pin Header — RoHS Compliant NEW!								
2	2	5.0	12.5	H10281-ND	.45	6.68	20.92	DF5A-2P-5DSA(05)
	3	10.0	17.5	H10282-ND	.65	9.75	30.55	DF5A-3P-5DSA(05)
	4	15.0	22.5	H10283-ND	.59	10.59	34.65	DF5A-4P-5DSA(05)
	5	20.0	27.5	H10284-ND	.67	12.03	39.38	DF5A-5P-5DSA(05)
	6	25.0	32.5	H10285-ND	.77	13.96	45.68	DF5A-6P-5DSA(05)
	7	30.0	37.5	H10286-ND	.98	17.81	58.28	DF5A-7P-5DSA(05)
	8	35.0	42.5	H10287-ND	1.07	19.32	63.23	DF5A-8P-5DSA(05)
	9	40.0	47.5	H10288-ND	1.23	22.21	72.68	DF5A-9P-5DSA(05)
	10	45.0	52.5	H10289-ND	1.31	23.72	77.63	DF5A-10P-5DSA(05)
Double Row Socket								
3	4	5.0	10.5	H1918-ND	.50	5.95	17.75	DF5A-4DS-5C
	6	10.0	15.5	H1919-ND	.42	6.30	19.74	DF5A-6DS-5C
	8	15.0	20.5	H1920-ND	.60	9.00	28.20	DF5A-8DS-5C
	10	20.0	25.5	H1921-ND	.67	10.05	31.49	DF5A-10DS-5C
	12	25.0	30.5	H1922-ND	.71	12.79	41.85	DF5A-12DS-5C
	14	30.0	35.5	H1923-ND	.76	13.75	45.00	DF5A-14DS-5C
	16	35.0	40.5	H1924-ND	.81	14.71	48.15	DF5A-16DS-5C
Double Row Pin Header								
4	4	5.0	12.5	H1925-ND	.60	9.00	28.20	DF5A-4DP-5DSA
	6	10.0	17.5	H1926-ND	.61	11.00	36.00	DF5A-6DP-5DSA
	8	15.0	22.5	H1927-ND	.80	14.44	47.25	DF5A-8DP-5DSA
	10	20.0	27.5	H1928-ND	.95	17.19	56.25	DF5A-10DP-5DSA
	12	25.0	32.5	H1929-ND	1.22	22.00	72.00	DF5A-12DP-5DSA
	14	30.0	37.5	H1930-ND	1.37	24.75	81.00	DF5A-14DP-5DSA
	16	35.0	42.5	H1931-ND	1.52	27.50	90.00	DF5A-16DP-5DSA
NEW! Double Row Pin Header — RoHS Compliant NEW!								
4	4	5.0	12.5	H10290-ND	.59	10.66	34.88	DF5A-4DP-5DSA(05)
	6	10.0	17.5	H10291-ND	.79	14.23	46.58	DF5A-6DP-5DSA(05)
	8	15.0	22.5	H10292-ND	1.08	19.59	64.13	DF5A-8DP-5DSA(05)
	10	20.0	27.5	H10293-ND	1.27	22.89	74.93	DF5A-10DP-5DSA(05)
	12	25.0	32.5	H10294-ND	1.63	29.56	96.75	DF5A-12DP-5DSA(05)
	14	30.0	37.5	H10295-ND	1.82	32.86	107.55	DF5A-14DP-5DSA(05)
	16	35.0	42.5	H10296-ND	1.71	32.88	105.20	DF5A-16DP-5DSA(05)

Socket Crimping Contacts (18-22AWG)

UL Style	Digi-Key Part No.	*Loose Piece* Pricing 1	25	100	Hirose Part No.	*Cut Tape** Pricing 100	500	*T & R†* Pricing 5,000	Hirose Part No.
Tin Plated (annealed copper wire)									
UL1007	H1932-ND	.28	3.02	8.53	DF5-1822SC(51)	6.88	23.75	33.00/M	DF5-1822SCF(51)
UL1015	H1933-ND	.28	3.02	8.53	DFA5-1822SC(51)	6.88	23.75	33.00/M	DF5A-1822SCF(51)

* For Cut Tape, add CT to the Digi-Key Part No. (H1932CT-ND)
† For Tape and Reel, add TR to the Digi-Key Part No. (H1932TR-ND)

Crimp Tools

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Crimp Tool UL1007 18-22AWG	H9918-ND	1121.72	DF5-1822/CR-HT
Crimp Tool UL1015 18-22AWG	H9919-ND	1253.40	DF5A-1822/CR-HT

DF22 Series Connectors

7.92mm Pitch Connectors for High-Current Internal Power Supplies

Features: • 20A maximum current capacity. The connector can carry a maximum current of 20A with 12AWG wire. • Complete Lock Function: Secure latch mechanism the fully shrouded latch mechanism is resistant to accidental unlatching from shock, and vibration.

Applications: Consumer-electronics and power supplies for electronic devices, business machines, and industrial machinery

Specifications: • Operating Temperature Range: -35°C ~ 85°C • Contact Resistance: 5mΩ or less (initial) • Insulation Resistance: 1,000MΩ or more

No. of Con.	Rated Current 12AWG	14AWG	16AWG
2	20A	18A	15A
3	20A	18A	15A
4	18A	15A	13A
5	18A	15A	13A

Material: • Crimp Socket: Insulation, polyimide resin, natural (white),UL94V-0 • Female Crimp Contact: Terminal, high conductivity copper alloy, tin (whiskers free) • Header Insulation: Polyimide resin (glass reinforced), natural (beige), UL94V-0 • Header Terminal: High-conductivity copper alloy, tin (whiskers free)

Fig. 1

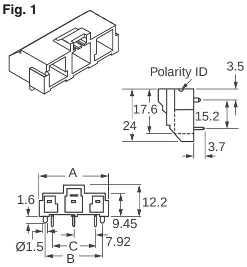

Fig. 2

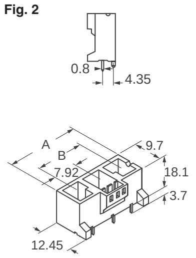

Fig. 3

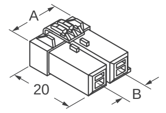

Polarizing Options

Style A — Standard Type

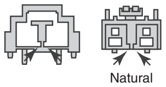

Style B — R Type, Black

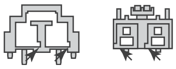

Style C — L Type, Red

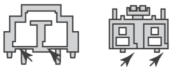

Fig.	No. of Contacts	Dimension (mm) A	B	C	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
Pin Headers									
Right-Angle									
1A	2	19.80	15.00	7.92	H2776-ND	.71	12.93	42.30	DF22-2P-7.92DS
	3	27.72	22.92	15.84	H2777-ND	.97	17.60	57.60	DF22-3P-7.92DS
	4	35.64	30.84	23.76	H2778-ND	1.17	21.24	69.53	DF22-4P-7.92DS
	5	43.56	38.76	31.68	H2779-ND	1.37	24.82	81.23	DF22-5P-7.92DS
1B	2	19.80	15.00	7.92	H1613-ND	.76	13.82	45.23	DF22R-2P-7.92DS
	3	27.72	22.92	15.84	H1616-ND	1.04	18.77	61.43	DF22R-3P-7.92DS
	4	35.64	30.84	23.76	H1619-ND	1.26	22.83	74.70	DF22R-4P-7.92DS
	5	43.56	38.76	31.68	H1622-ND	1.49	26.88	87.98	DF22R-5P-7.92DS
1C	2	19.80	15.00	7.92	H1601-ND	.76	13.82	45.23	DF22L-2P-7.92DS
	3	27.72	22.92	15.84	H1604-ND	1.04	18.77	61.43	DF22L-3P-7.92DS
	4	35.64	30.84	23.76	H1607-ND	1.26	22.83	74.70	DF22L-4P-7.92DS
	5	43.56	38.76	31.68	H1610-ND	1.49	26.88	87.98	DF22L-5P-7.92DS
Vertical									
2A	2	17.22	7.92	—	H2780-ND	.72	13.06	42.75	DF22-2P-7.92DSA
	3	25.14	15.84	—	H2781-ND	.99	17.88	58.50	DF22-3P-7.92DSA
	4	33.06	23.76	—	H2782-ND	1.19	21.59	70.65	DF22-4P-7.92DSA
	5	40.98	31.68	—	H2783-ND	1.39	25.23	82.58	DF22-5P-7.92DSA
2B	2	17.22	7.92	—	H1614-ND	.76	13.75	45.00	DF22R-2P-7.92DSA
	3	25.14	15.84	—	H1617-ND	1.04	18.84	61.65	DF22R-3P-7.92DSA
	4	33.06	23.76	—	H1620-ND	1.27	22.89	74.93	DF22R-4P-7.92DSA
	5	40.98	31.68	—	H1623-ND	1.49	26.95	88.20	DF22R-5P-7.92DSA
2C	2	17.22	7.92	—	H1602-ND	.76	13.75	45.00	DF22L-2P-7.92DSA
	3	25.14	15.84	—	H1605-ND	1.04	18.84	61.65	DF22L-3P-7.92DSA
	4	33.06	23.76	—	H1608-ND	1.27	22.89	74.93	DF22L-4P-7.92DSA
	5	40.98	31.68	—	H1611-ND	1.49	26.95	88.20	DF22L-5P-7.92DSA
Crimp Socket Housing									
3A	2	15.50	7.92	—	H2784-ND	.41	4.86	14.50	DF22-2S-7.92C(28)
	3	23.42	15.84	—	H2785-ND	.50	7.43	23.27	DF22-3S-7.92C(28)
	4	31.34	23.76	—	H2786-ND	.59	8.78	27.50	DF22-4S-7.92C(28)
	5	39.26	31.68	—	H2787-ND	.66	9.83	30.79	DF22-5S-7.92C(28)
3B	2	15.50	7.92	—	H1615-ND	.46	5.44	16.25	DF22R-2S-7.92C(28)
	3	23.42	15.84	—	H1618-ND	.56	8.40	26.32	DF22R-3S-7.92C(28)
	4	31.34	23.76	—	H1621-ND	.68	10.13	31.73	DF22R-4S-7.92C(28)
	5	39.26	31.68	—	H1624-ND	.58	10.52	34.43	DF22R-5S-7.92C(28)
3C	2	15.50	7.92	—	H1603-ND	.45	5.36	16.00	DF22L-2S-7.92C(28)
	3	23.42	15.84	—	H1606-ND	.56	8.40	26.32	DF22L-3S-7.92C(28)
	4	31.34	23.76	—	H1609-ND	.68	10.13	31.73	DF22L-4S-7.92C(28)
	5	39.26	31.68	—	H1612-ND	.58	10.52	34.43	DF22L-5S-7.92C(28)

Contacts and Crimp Tools

UL Style	AWG	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Tape & Reel* Pricing	Hirose Part No.
UL1430	14-16	H2788CT-ND	—	2.09	6.08	10.45	132.50/2,500	DF22-1416SCF
UL1015	14-16	H2789CT-ND	—	1.78	5.95	10.25	110.00/2,000	DF22A-1416SCF
UL1015	10-12	HR1173CT-ND	—	3.00	10.01	17.25	186.00/2,000	DF22A-1012SCF
Tools								
UL1430	14-16	HR1168-ND	1235.00	—	—	—	—	HT104/DF22-1416
UL1015	14-16	HR1169-ND	1235.00	—	—	—	—	HT104/DF22A-1416
UL1015	10-12	HR1167-ND	1989.00	—	—	—	—	HT103/DF22A-1012

* For Tape and Reel part number, change CT-ND to TR-ND.

HIROSE ELECTRIC CO.,LTD.

DF3, DF7, DF11, DF13, DF22 Interconnect Wire (housing available)

CONTACT SPECIFICATIONS: • Rated Current: **DF3:** *24AWG:* 3A, *26 AWG:* 2A, *28AWG:* 1A **DF11:** *24-26 AWG:* 2A, *28 AWG:* 1A • Operating Temperature: -30°C ~ 85°C • Rated Voltage: AC250V • Insulation Resistance: 1000 MΩ or more • Contact Resistance: 30 mΩ or less • Insertion / Withdrawals Force: Min. 0.3 N (30gf), Maximum 4.4 N (450gf) • Material (crimp terminal for socket): Phosphor bronze with tin or gold plating.

Safety Standards: UL: E52653 and CSA: LR95109.

WIRE SPECIFICATIONS: • Stranded tinned copper conductor • Color coded PVC insulation • Flammability: Passes UL VW-1 flame test • Wire is ordered per EIA-359-A color specifications which allows for some variation in shade • Operating Temperature: -40°C ~ 90°C (CSA TR-64), -40°C ~ 80°C (UL AWM 1007)

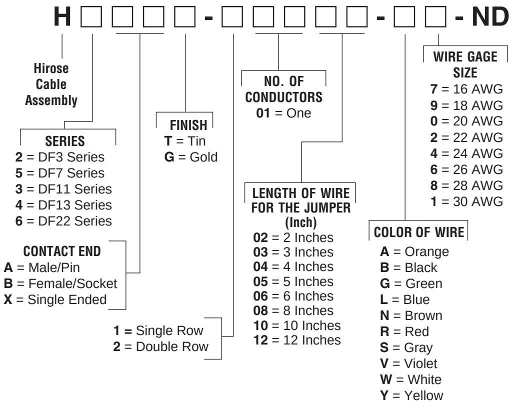

H□□□□-□□□□□-□□-ND

Hirose Cable Assembly

SERIES
2 = DF3 Series
5 = DF7 Series
3 = DF11 Series
4 = DF13 Series
6 = DF22 Series

CONTACT END
A = Male/Pin
B = Female/Socket
X = Single Ended

FINISH
T = Tin
G = Gold

1 = Single Row
2 = Double Row

NO. OF CONDUCTORS
01 = One

LENGTH OF WIRE FOR THE JUMPER (Inch)
02 = 2 Inches
03 = 3 Inches
04 = 4 Inches
05 = 5 Inches
06 = 6 Inches
08 = 8 Inches
10 = 10 Inches
12 = 12 Inches

COLOR OF WIRE
A = Orange
B = Black
G = Green
L = Blue
N = Brown
R = Red
S = Gray
V = Violet
W = White
Y = Yellow

WIRE GAGE SIZE
7 = 16 AWG
9 = 18 AWG
0 = 20 AWG
2 = 22 AWG
4 = 24 AWG
6 = 26 AWG
8 = 28 AWG
1 = 30 AWG

Fig. 1 — Socket to Socket

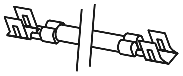

Fig. 2 — Socket Single End

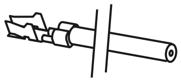

Pin to Pin

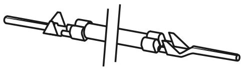

Available upon request

Pin to Socket

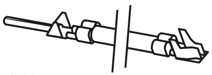

Available upon request

Pin Single End

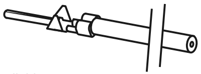

Available upon request

* For □ in Digi-Key Part No. choose letter which represents color of your choice: **A** = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown **R** = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each		
			10	100	250
DF3 - TIN PLATED CONTACTS					
24 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBT-10102-□4-ND	.62	.46	.40
	3	H2BBT-10103-□4-ND	. 63	.47	.40
	4	H2BBT-10104-□4-ND	.64	.47	.41
	5	H2BBT-10105-□4-ND	.64	.48	.41
	6	H2BBT-10106-□4-ND	.65	.48	.41
	8	H2BBT-10108-□4-ND	.66	.49	.42
	10	H2BBT-10110-□4-ND	.68	.50	.43
	12	H2BBT-10112-□4-ND	.69	.51	.44
Fig. 2 (Socket Single End)	2	H2BXT-10102-□4-ND	.56	.42	.36
	3	H2BXT-10103-□4-ND	.57	.42	.36
	4	H2BXT-10104-□4-ND	.58	.43	.37
	5	H2BXT-10105-□4-ND	.58	.43	.37
	6	H2BXT-10106-□4-ND	.59	.44	.38
	8	H2BXT-10108-□4-ND	.60	.45	.39
	10	H2BXT-10110-□4-ND	.62	.46	.39
	12	H2BXT-10112-□4-ND	.63	.47	.40
26 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBT-10102-□6-ND	.62	.46	.40
	3	H2BBT-10103-□6-ND	.63	.47	.40
	4	H2BBT-10104-□6-ND	.64	.47	.41
	5	H2BBT-10105-□6-ND	.65	.48	.41
	6	H2BBT-10106-□6-ND	.65	.48	.42
	8	H2BBT-10108-□6-ND	.67	.49	.43
	10	H2BBT-10110-□6-ND	.68	.51	.44
	12	H2BBT-10112-□6-ND	.70	.52	.45
Fig. 2 (Socket Single End)	2	H2BXT-10102-□6-ND	.56	.42	.36
	3	H2BXT-10103-□6-ND	.57	.42	.37
	4	H2BXT-10104-□6-ND	.58	.43	.37
	5	H2BXT-10105-□6-ND	.59	.43	.37
	6	H2BXT-10106-□6-ND	.59	.44	.38
	8	H2BXT-10108-□6-ND	.61	.45	.39
	10	H2BXT-10110-□6-ND	.62	.46	.40
	12	H2BXT-10112-□6-ND	.64	.47	.41
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBT-10102-□8-ND	.62	.46	.40
	3	H2BBT-10103-□8-ND	.63	.47	.40
	4	H2BBT-10104-□8-ND	.64	.47	.41
	5	H2BBT-10105-□8-ND	.64	.48	.41
	6	H2BBT-10106-□8-ND	.65	.48	.42
	8	H2BBT-10108-□8-ND	.67	.49	.43
	10	H2BBT-10110-□8-ND	.68	.50	.43
	12	H2BBT-10112-□8-ND	.69	.51	.44
Fig. 2 (Socket Single End)	2	H2BXT-10102-□8-ND	.56	.42	.36
	3	H2BXT-10103-□8-ND	.57	.42	.36
	4	H2BXT-10104-□8-ND	.58	.43	.37
	5	H2BXT-10105-□8-ND	.58	.43	.37
	6	H2BXT-10106-□8-ND	.59	.44	.38
	8	H2BXT-10108-□8-ND	.61	.45	.39
	10	H2BXT-10110-□8-ND	.62	.46	.40
	12	H2BXT-10112-□8-ND	.63	.47	.41

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each		
			10	100	250
DF3 - 15µ GOLD PLATED CONTACTS					
24 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBG-10102-□4-ND	.71	.53	.46
	3	H2BBG-10103-□4-ND	.72	.53	.46
	4	H2BBG-10104-□4-ND	.73	.54	.46
	5	H2BBG-10105-□4-ND	.73	.54	.47
	6	H2BBG-10106-□4-ND	.74	.55	.47
	8	H2BBG-10108-□4-ND	.75	.56	.48
	10	H2BBG-10110-□4-ND	.77	.57	.49
	12	H2BBG-10112-□4-ND	.78	.58	.50
Fig. 2 (Socket Single End)	2	H2BXG-10102-□4-ND	.61	.45	.39
	3	H2BXG-10103-□4-ND	.61	.45	.39
	4	H2BXG-10104-□4-ND	.62	.46	.40
	5	H2BXG-10105-□4-ND	.63	.46	.40
	6	H2BXG-10106-□4-ND	.64	.47	.41
	8	H2BXG-10108-□4-ND	.65	.48	.41
	10	H2BXG-10110-□4-ND	.66	.49	.42
	12	H2BXG-10112-□4-ND	.68	.50	.43
26 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBG-10102-□6-ND	.71	.53	.46
	3	H2BBG-10103-□6-ND	.72	.53	.46
	4	H2BBG-10104-□6-ND	.73	.54	.47
	5	H2BBG-10105-□6-ND	.74	.54	.47
	6	H2BBG-10106-□6-ND	.74	.55	.48
	8	H2BBG-10108-□6-ND	.76	.56	.49
	10	H2BBG-10110-□6-ND	.77	.57	.49
	12	H2BBG-10112-□6-ND	.79	.58	.50
Fig. 2 (Socket Single End)	2	H2BXG-10102-□6-ND	.61	.45	.39
	3	H2BXG-10103-□6-ND	.62	.46	.39
	4	H2BXG-10104-□6-ND	.62	.46	.40
	5	H2BXG-10105-□6-ND	.63	.47	.40
	6	H2BXG-10106-□6-ND	.64	.47	.41
	8	H2BXG-10108-□6-ND	.65	.48	.42
	10	H2BXG-10110-□6-ND	.67	.49	.43
	12	H2BXG-10112-□6-ND	.68	.51	.44
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H2BBG-10102-□8-ND	.71	.53	.46
	3	H2BBG-10103-□8-ND	.72	.53	.46
	4	H2BBG-10104-□8-ND	.73	.54	.47
	5	H2BBG-10105-□8-ND	.74	.54	.47
	6	H2BBG-10106-□8-ND	.74	.55	.47
	8	H2BBG-10108-□8-ND	.76	.56	.48
	10	H2BBG-10110-□8-ND	.77	.57	.49
	12	H2BBG-10112-□8-ND	.79	.58	.50
Fig. 2 (Socket Single End)	2	H2BXG-10102-□8-ND	.61	.45	.39
	3	H2BXG-10103-□8-ND	.62	.46	.39
	4	H2BXG-10104-□8-ND	.62	.46	.40
	5	H2BXG-10105-□8-ND	.63	.47	.40
	6	H2BXG-10106-□8-ND	.64	.47	.41
	8	H2BXG-10108-□8-ND	.65	.48	.42
	10	H2BXG-10110-□8-ND	.67	.49	.43
	12	H2BXG-10112-□8-ND	.68	.50	.43

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each		
			10	100	250
DF7- TIN PLATED CONTACTS					
16 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H5BBT-10102-□7-ND	.63	.47	.40
	3	H5BBT-10103-□7-ND	.64	.47	.41
	4	H5BBT-10104-□7-ND	.64	.48	.41
	5	H5BBT-10105-□7-ND	.65	.48	.42
	6	H5BBT-10106-□7-ND	.66	.49	.42
	8	H5BBT-10108-□7-ND	.67	.49	.43
	10	H5BBT-10110-□7-ND	.68	.50	.44
	12	H5BBT-10112-□7-ND	.70	.51	.44
Fig. 2 (Socket Single End)	2	H5BXT-10102-□7-ND	.57	.42	.36
	3	H5BXT-10103-□7-ND	.57	.42	.37
	4	H5BXT-10104-□7-ND	.58	.43	.37
	5	H5BXT-10105-□7-ND	.59	.43	.37
	6	H5BXT-10106-□7-ND	.59	.44	.38
	8	H5BXT-10108-□7-ND	.61	.45	.39
	10	H5BXT-10110-□7-ND	.62	.46	.40
	12	H5BXT-10112-□7-ND	.63	.47	.40
18 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H5BBT-10102-□9-ND	.63	.47	.40
	3	H5BBT-10103-□9-ND	.64	.47	.41
	4	H5BBT-10104-□9-ND	.64	.48	.41
	5	H5BBT-10105-□9-ND	.65	.48	.42
	6	H5BBT-10106-□9-ND	.66	.49	.42
	8	H5BBT-10108-□9-ND	.67	.49	.43
	10	H5BBT-10110-□9-ND	.68	.50	.44
	12	H5BBT-10112-□9-ND	.70	.51	.44
Fig. 2 (Socket Single End)	2	H5BXT-10102-□9-ND	.57	.42	.36
	3	H5BXT-10103-□9-ND	.57	.42	.37
	4	H5BXT-10104-□9-ND	.58	.43	.37
	5	H5BXT-10105-□9-ND	.59	.43	.37
	6	H5BXT-10106-□9-ND	.59	.44	.38
	8	H5BXT-10108-□9-ND	.61	.45	.39
	10	H5BXT-10110-□9-ND	.62	.46	.40
	12	H5BXT-10112-□9-ND	.63	.47	.40
20 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H5BBT-10102-□0-ND	.63	.47	.40
	3	H5BBT-10103-□0-ND	.64	.47	.41
	4	H5BBT-10104-□0-ND	.64	.48	.41
	5	H5BBT-10105-□0-ND	.65	.48	.42
	6	H5BBT-10106-□0-ND	.66	.49	.42
	8	H5BBT-10108-□0-ND	.67	.49	.43
	10	H5BBT-10110-□0-ND	.68	.50	.44
	12	H5BBT-10112-□0-ND	.70	.51	.44
Fig. 2 (Socket Single End)	2	H5BXT-10102-□0-ND	.57	.42	.36
	3	H5BXT-10103-□0-ND	.57	.42	.37
	4	H5BXT-10104-□0-ND	.58	.43	.37
	5	H5BXT-10105-□0-ND	.59	.43	.37
	6	H5BXT-10106-□0-ND	.59	.44	.38
	8	H5BXT-10108-□0-ND	.61	.45	.39
	10	H5BXT-10110-□0-ND	.62	.46	.40
	12	H5BXT-10112-□0-ND	.63	.47	.40

(Continued)

HRS HIROSE ELECTRIC CO.,LTD. DF3, DF7, DF11, DF13, DF22 Interconnect Wire (housing available) *(Cont.)*

* For □ in Digi-Key Part No. choose letter which represents color of your choice: **A** = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown **R** = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each 10	100	250
22 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H5BBT-10102-□2-ND	.63	.47	.40
	3	H5BBT-10103-□2-ND	.64	.47	.41
	4	H5BBT-10104-□2-ND	.64	.48	.41
	5	H5BBT-10105-□2-ND	.65	.48	.42
	6	H5BBT-10106-□2-ND	.66	.49	.42
	8	H5BBT-10108-□2-ND	.67	.49	.43
	10	H5BBT-10110-□2-ND	.68	.50	.44
	12	H5BBT-10112-□2-ND	.70	.51	.44
Fig. 2 (Socket Single End)	2	H5BXT-10102-□2-ND	.57	.42	.36
	3	H5BXT-10103-□2-ND	.57	.42	.37
	4	H5BXT-10104-□2-ND	.58	.43	.37
	5	H5BXT-10105-□2-ND	.59	.43	.37
	6	H5BXT-10106-□2-ND	.59	.44	.38
	8	H5BXT-10108-□2-ND	.61	.45	.39
	10	H5BXT-10110-□2-ND	.62	.46	.40
	12	H5BXT-10112-□2-ND	.63	.47	.40
DF11 - TIN PLATED CONTACTS					
24 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBT-10102-□4-ND	.62	.46	.40
	3	H3BBT-10103-□4-ND	.63	.47	.40
	4	H3BBT-10104-□4-ND	.64	.47	.41
	5	H3BBT-10105-□4-ND	.64	.48	.41
	6	H3BBT-10106-□4-ND	.65	.48	.41
	8	H3BBT-10108-□4-ND	.66	.49	.42
	10	H3BBT-10110-□4-ND	.68	.50	.43
	12	H3BBT-10112-□4-ND	.69	.51	.44
Fig. 2 (Socket Single End)	2	H3BXT-10102-□4-ND	.56	.42	.36
	3	H3BXT-10103-□4-ND	.57	.42	.36
	4	H3BXT-10104-□4-ND	.58	.43	.37
	5	H3BXT-10105-□4-ND	.58	.43	.37
	6	H3BXT-10106-□4-ND	.59	.44	.38
	8	H3BXT-10108-□4-ND	.60	.45	.39
	10	H3BXT-10110-□4-ND	.62	.46	.39
	12	H3BXT-10112-□4-ND	.63	.47	.40
26 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBT-10102-□6-ND	.62	.46	.40
	3	H3BBT-10103-□6-ND	.63	.47	.40
	4	H3BBT-10104-□6-ND	.64	.47	.41
	5	H3BBT-10105-□6-ND	.65	.48	.41
	6	H3BBT-10106-□6-ND	.65	.48	.42
	8	H3BBT-10108-□6-ND	.67	.49	.43
	10	H3BBT-10110-□6-ND	.68	.51	.44
	12	H3BBT-10112-□6-ND	.70	.52	.45
Fig. 2 (Socket Single End)	2	H3BXT-10102-□6-ND	.56	.42	.36
	3	H3BXT-10103-□6-ND	.57	.42	.37
	4	H3BXT-10104-□6-ND	.58	.43	.37
	5	H3BXT-10105-□6-ND	.59	.43	.37
	6	H3BXT-10106-□6-ND	.59	.44	.38
	8	H3BXT-10108-□6-ND	.61	.45	.39
	10	H3BXT-10110-□6-ND	.62	.46	.40
	12	H3BXT-10112-□6-ND	.64	.47	.41
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBT-10102-□8-ND	.62	.46	.40
	3	H3BBT-10103-□8-ND	.63	.47	.40
	4	H3BBT-10104-□8-ND	.64	.47	.41
	5	H3BBT-10105-□8-ND	.64	.48	.41
	6	H3BBT-10106-□8-ND	.65	.48	.42
	8	H3BBT-10108-□8-ND	.67	.49	.43
	10	H3BBT-10110-□8-ND	.68	.50	.43
	12	H3BBT-10112-□8-ND	.69	.51	.44
Fig. 2 (Socket Single End)	2	H3BXT-10102-□8-ND	.56	.42	.36
	3	H3BXT-10103-□8-ND	.57	.42	.36
	4	H3BXT-10104-□8-ND	.58	.43	.37
	5	H3BXT-10105-□8-ND	.58	.43	.37
	6	H3BXT-10106-□8-ND	.59	.44	.38
	8	H3BXT-10108-□8-ND	.61	.45	.39
	10	H3BXT-10110-□8-ND	.62	.46	.40
	12	H3BXT-10112-□8-ND	.63	.47	.41

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each 10	100	250
DF11 - 15µ GOLD PLATED CONTACTS					
24 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBG-10102-□4-ND	.75	.56	.48
	3	H3BBG-10103-□4-ND	.76	.56	.49
	4	H3BBG-10104-□4-ND	.77	.57	.49
	5	H3BBG-10105-□4-ND	.77	.57	.49
	6	H3BBG-10106-□4-ND	.78	.58	.50
	8	H3BBG-10108-□4-ND	.79	.59	.51
	10	H3BBG-10110-□4-ND	.81	.60	.52
	12	H3BBG-10112-□4-ND	.82	.61	.52
Fig. 2 (Socket Single End)	2	H3BXG-10102-□4-ND	.63	.46	.40
	3	H3BXG-10103-□4-ND	.63	.47	.41
	4	H3BXG-10104-□4-ND	.64	.47	.41
	5	H3BXG-10105-□4-ND	.65	.48	.41
	6	H3BXG-10106-□4-ND	.65	.48	.42
	8	H3BXG-10108-□4-ND	.67	.49	.43
	10	H3BXG-10110-□4-ND	.68	.50	.44
	12	H3BXG-10112-□4-ND	.70	.51	.44
26 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBG-10102-□6-ND	.75	.56	.48
	3	H3BBG-10103-□6-ND	.76	.56	.49
	4	H3BBG-10104-□6-ND	.77	.57	.49
	5	H3BBG-10105-□6-ND	.78	.57	.50
	6	H3BBG-10106-□6-ND	.78	.58	.50
	8	H3BBG-10108-□6-ND	.80	.59	.51
	10	H3BBG-10110-□6-ND	.81	.60	.52
	12	H3BBG-10112-□6-ND	.83	.61	.53
Fig. 2 (Socket Single End)	2	H3BXG-10102-□6-ND	.63	.47	.40
	3	H3BXG-10103-□6-ND	.64	.47	.41
	4	H3BXG-10104-□6-ND	.64	.48	.41
	5	H3BXG-10105-□6-ND	.65	.48	.42
	6	H3BXG-10106-□6-ND	.66	.49	.42
	8	H3BXG-10108-□6-ND	.67	.50	.43
	10	H3BXG-10110-□6-ND	.69	.51	.44
	12	H3BXG-10112-□6-ND	.70	.52	.45
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H3BBG-10102-□8-ND	.75	.56	.48
	3	H3BBG-10103-□8-ND	.76	.56	.49
	4	H3BBG-10104-□8-ND	.77	.57	.49
	5	H3BBG-10105-□8-ND	.78	.57	.50
	6	H3BBG-10106-□8-ND	.78	.58	.50
	8	H3BBG-10108-□8-ND	.80	.59	.51
	10	H3BBG-10110-□8-ND	.81	.60	.52
	12	H3BBG-10112-□8-ND	.83	.61	.53
Fig. 2 (Socket Single End)	2	H3BXG-10102-□8-ND	.63	.46	.40
	3	H3BXG-10103-□8-ND	.64	.47	.41
	4	H3BXG-10104-□8-ND	.64	.48	.41
	5	H3BXG-10105-□8-ND	.65	.48	.42
	6	H3BXG-10106-□8-ND	.66	.49	.42
	8	H3BXG-10108-□8-ND	.67	.50	.43
	10	H3BXG-10110-□8-ND	.69	.51	.44
	12	H3BXG-10112-□8-ND	.70	.52	.45
DF13 - TIN PLATED CONTACTS					
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H4BBT-10102-□8-ND	.57	.42	.36
	3	H4BBT-10103-□8-ND	.57	.42	.37
	4	H4BBT-10104-□8-ND	.58	.43	.37
	5	H4BBT-10105-□8-ND	.59	.43	.38
	6	H4BBT-10106-□8-ND	.59	.44	.38
	8	H4BBT-10108-□8-ND	.61	.45	.39
	10	H4BBT-10110-□8-ND	.62	.46	.40
	12	H4BBT-10112-□8-ND	.63	.47	.41
Fig. 2 (Socket Single End)	2	H4BXT-10102-□8-ND	.54	.40	.34
	3	H4BXT-10103-□8-ND	.54	.40	.35
	4	H4BXT-10104-□8-ND	.55	.41	.35
	5	H4BXT-10105-□8-ND	.56	.41	.36
	6	H4BXT-10106-□8-ND	.56	.42	.36
	8	H4BXT-10108-□8-ND	.57	.43	.37
	10	H4BXT-10110-□8-ND	.59	.44	.38
	12	H4BXT-10112-□8-ND	.60	.44	.38

Fig.	Cable Length (inches)	Digi-Key Part No.	Price Each 10	100	250
30 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H4BBT-10102-□1-ND	.57	.42	.36
	3	H4BBT-10103-□1-ND	.57	.42	.37
	4	H4BBT-10104-□1-ND	.58	.43	.37
	5	H4BBT-10105-□1-ND	.59	.43	.38
	6	H4BBT-10106-□1-ND	.59	.44	.38
	8	H4BBT-10108-□1-ND	.61	.45	.39
	10	H4BBT-10110-□1-ND	.62	.46	.40
	12	H4BBT-10112-□1-ND	.63	.47	.41
Fig. 2 (Socket Single End)	2	H4BXT-10102-□1-ND	.54	.40	.34
	3	H4BXT-10103-□1-ND	.54	.40	.35
	4	H4BXT-10104-□1-ND	.55	.41	.35
	5	H4BXT-10105-□1-ND	.56	.41	.36
	6	H4BXT-10106-□1-ND	.56	.42	.36
	8	H4BXT-10108-□1-ND	.57	.43	.37
	10	H4BXT-10110-□1-ND	.59	.44	.38
	12	H4BXT-10112-□1-ND	.60	.44	.38
DF13 - GOLD PLATED CONTACTS					
28 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H4BBG-10102-□8-ND	.60	.45	.39
	3	H4BBG-10103-□8-ND	.61	.45	.39
	4	H4BBG-10104-□8-ND	.62	.46	.39
	5	H4BBG-10105-□8-ND	.62	.46	.40
	6	H4BBG-10106-□8-ND	.63	.47	.40
	8	H4BBG-10108-□8-ND	.64	.48	.41
	10	H4BBG-10110-□8-ND	.66	.49	.42
	12	H4BBG-10112-□8-ND	.67	.50	.43
Fig. 2 (Socket Single End)	2	H4BXG-10102-□8-ND	.55	.41	.35
	3	H4BXG-10103-□8-ND	.56	.41	.36
	4	H4BXG-10104-□8-ND	.57	.42	.36
	5	H4BXG-10105-□8-ND	.57	.42	.37
	6	H4BXG-10106-□8-ND	.58	.43	.37
	8	H4BXG-10108-□8-ND	.59	.44	.38
	10	H4BXG-10110-□8-ND	.61	.45	.39
	12	H4BXG-10112-□8-ND	.62	.46	.40
30 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H4BBG-10102-□1-ND	.60	.45	.39
	3	H4BBG-10103-□1-ND	.61	.45	.39
	4	H4BBG-10104-□1-ND	.62	.46	.39
	5	H4BBG-10105-□1-ND	.62	.46	.40
	6	H4BBG-10106-□1-ND	.63	.47	.40
	8	H4BBG-10108-□1-ND	.64	.48	.41
	10	H4BBG-10110-□1-ND	.66	.49	.42
	12	H4BBG-10112-□1-ND	.67	.50	.43
Fig. 2 (Socket Single End)	2	H4BXG-10102-□1-ND	.55	.41	.35
	3	H4BXG-10103-□1-ND	.56	.41	.36
	4	H4BXG-10104-□1-ND	.57	.42	.36
	5	H4BXG-10105-□1-ND	.57	.42	.37
	6	H4BXG-10106-□1-ND	.58	.43	.37
	8	H4BXG-10108-□1-ND	.59	.44	.38
	10	H4BXG-10110-□1-ND	.61	.45	.39
	12	H4BXG-10112-□1-ND	.62	.46	.40
DF22 - TIN PLATED CONTACTS					
16 AWG WIRE					
Fig. 1 (Socket to Socket)	2	H6BBT-10102-□7-ND	.72	.53	.46
	3	H6BBT-10103-□7-ND	.73	.54	.47
	4	H6BBT-10104-□7-ND	.73	.54	.47
	5	H6BBT-10105-□7-ND	.74	.55	.47
	6	H6BBT-10106-□7-ND	.75	.55	.48
	8	H6BBT-10108-□7-ND	.76	.56	.49
	10	H6BBT-10110-□7-ND	.77	.57	.49
	12	H6BBT-10112-□7-ND	.79	.58	.50
Fig. 2 (Socket Single End)	2	H6BXT-10102-□7-ND	.61	.45	.39
	3	H6BXT-10103-□7-ND	.62	.46	.40
	4	H6BXT-10104-□7-ND	.63	.46	.40
	5	H6BXT-10105-□7-ND	.63	.47	.40
	6	H6BXT-10106-□7-ND	.64	.47	.41
	8	H6BXT-10108-□7-ND	.65	.48	.42
	10	H6BXT-10110-□7-ND	.67	.49	.43
	12	H6BXT-10112-□7-ND	.68	.50	.43

JST

JMD Series

0.5mm Connectors

Features: • Smooth connection: The bellows type contacts, mating is very smooth • Distortion Prevention Construction: Box shaped plug housing has guide ribs on both ends which prevents distortion • Wide Range of Circuits: Number of circuits available are from 20 to 100, every 10 circuits **Specifications:** • Current Rating: 0.5A AC, DC • Voltage Rating: 50V AC, DC • Temperature Range: -25°C ~ 85°C • Withstanding Voltage: 100V AC/minute **Contacts:** • Gold Plated

Fig. 1

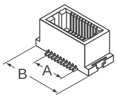

Fig. 2

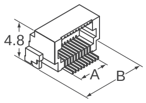

Fig. 3

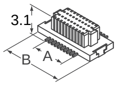

Fig.	Circuits	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	T & R* Pricing 1,500	JST Part No.
Top Entry Plug									
4.5mm Stacking Height									
1	20	4.5	9.1	455-1458-1-ND	16.92	151.42	668.04	—	20P-JMDSS-G-1-TF
	40	9.5	14.1	455-1459-1-ND	19.55	174.93	771.75	823.00/M	40P-JMDSS-G-1-TF
	50	12.0	16.6	455-1460-1-ND	23.23	207.87	917.08	978.00/M	50P-JMDSS-G-1-TF
	60	14.5	19.1	455-1461-1-ND	31.14	278.65	1229.33	1311.00/M	60P-JMDSS-G-1-TF
	70	17.0	21.6	455-1462-1-ND	34.37	307.50	1356.60	1447.00/M	70P-JMDSS-G-1-TF
	80	19.5	24.1	455-1463-1-ND	40.81	365.14	1610.93	1718.00/M	80P-JMDSS-G-1-TF
	100	24.5	29.1	455-1464-1-ND	49.21	440.33	1942.61	2072.00/M	100P-JMDSS-G-1-TF
NEW! 4.5mm Stacking Height — RoHS Compliant NEW!									
1	20	4.5	9.1	455-1874-1-ND	16.92	151.42	668.04	713.00/M	20P-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1875-1-ND	19.55	174.93	771.75	823.00/M	40P-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1876-1-ND	23.23	207.87	917.08	978.00/M	50P-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1877-1-ND	31.14	278.65	1229.33	1311.00/M	60P-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1878-1-ND	34.37	307.50	1356.60	1447.00/M	70P-JMDSS-G-1-TF(S)(LF)(SN)
	80	19.5	24.1	455-1879-1-ND	40.81	365.14	1610.93	1718.00/M	80P-JMDSS-G-1-TF(S)(LF)(SN)
	100	24.5	29.1	455-1880-1-ND	49.21	440.33	1942.61	2072.00/M	100P-JMDSS-G-1-TF(S)(LF)(SN)
5.0mm Stacking Height									
1	30	7.0	11.6	455-1465-1-ND	14.53	129.96	573.36	612.00/M	30P5.0-JMDSS-G-1-TF
	40	9.5	14.1	455-1466-1-ND	22.91	205.01	904.44	965.00/M	40P5.0-JMDSS-G-1-TF
NEW! 5.0mm Stacking Height — RoHS Compliant NEW!									
1	30	7.0	11.6	455-1881-1-ND	18.50	165.55	730.35	779.00/M	30P5.0-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1882-1-ND	22.91	205.01	904.44	965.00/M	40P5.0-JMDSS-G-1-TF(S)(LF)(SN)
6.0mm Stacking Height									
1	50	12.0	16.6	455-1467-1-ND	27.09	242.39	1069.37	1141.00/M	50P6.0-JMDSS-G-1-TF
	60	14.5	19.1	455-1468-1-ND	32.84	293.83	1296.32	1383.00/M	60P6.0-JMDSS-G-1-TF
	70	17.0	21.6	455-1469-1-ND	36.34	325.19	1434.66	1530.00/M	70P6.0-JMDSS-G-1-TF
NEW! 6.0mm Stacking Height — RoHS Compliant NEW!									
1	50	12.0	16.6	455-1883-1-ND	27.09	242.39	1069.37	1141.00/M	50P6.0-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1884-1-ND	32.84	293.83	1296.32	1383.00/M	60P6.0-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1885-1-ND	36.34	325.19	1434.66	1530.00/M	70P6.0-JMDSS-G-1-TF(S)(LF)(SN)
Side Entry Plug									
2	20	4.5	9.1	455-1470-1-ND	13.24	118.47	522.66	—	20PS-JMDSS-G-1-TF
	30	7.0	11.6	455-1471-1-ND	16.51	147.69	651.58	—	30PS-JMDSS-G-1-TF
	40	9.5	14.1	455-1472-1-ND	21.51	192.45	849.06	906.00/M	40PS-JMDSS-G-1-TF
	50	12.0	16.6	455-1473-1-ND	26.66	238.51	1052.23	1122.00/M	50PS-JMDSS-G-1-TF
	60	14.5	19.1	455-1474-1-ND	29.62	264.99	1169.06	1247.00/M	60PS-JMDSS-G-1-TF
	70	17.0	21.6	455-1475-1-ND	34.49	308.55	1361.27	1452.00/M	70PS-JMDSS-G-1-TF
	80	19.5	24.1	455-1476-1-ND	49.18	440.05	1941.41	2071.00/M	80PS-JMDSS-G-1-TF
	100	24.5	29.1	455-1477-1-ND	65.68	587.62	2592.45	2765.00/M	100PS-JMDSS-G-1-TF
NEW! Side Entry Plug — RoHS Compliant NEW!									
2	20	4.5	9.1	455-1886-1-ND	13.24	118.47	522.66	558.00/M	20PS-JMDSS-G-1-TF(S)(LF)(SN)
	30	7.0	11.6	455-1887-1-ND	16.51	147.69	651.58	695.00/M	30PS-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1888-1-ND	21.51	192.45	849.06	906.00/M	40PS-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1889-1-ND	26.66	238.51	1052.23	1122.00/M	50PS-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1890-1-ND	29.62	264.99	1169.06	1247.00/M	60PS-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1891-1-ND	34.49	308.55	1361.27	1452.00/M	70PS-JMDSS-G-1-TF(S)(LF)(SN)
	80	19.5	24.1	455-1892-1-ND	49.18	440.05	1941.41	2071.00/M	80PS-JMDSS-G-1-TF(S)(LF)(SN)
	100	24.5	29.1	455-1893-1-ND	65.68	587.62	2592.45	2765.00/M	100PS-JMDSS-G-1-TF(S)(LF)(SN)
Receptacle									
3	20	4.5	9.1	455-1478-1-ND	18.83	168.44	743.12	—	20R-JMDSS-G-1-TF
	30	7.0	11.6	455-1479-1-ND	20.76	185.77	819.56	874.00/M	30R-JMDSS-G-1-TF
	60	14.5	19.1	455-1482-1-ND	42.23	377.83	1666.88	1778.00/M	60R-JMDSS-G-1-TF
	70	17.0	21.6	455-1483-1-ND	38.15	341.38	1506.08	1606.00/M	70R-JMDSS-G-1-TF
	80	19.5	24.1	455-1484-1-ND	47.78	427.48	1885.93	2012.00/M	80R-JMDSS-G-1-TF
	100	24.5	29.1	455-1485-1-ND	48.09	430.27	1898.25	2025.00/M	100R-JMDSS-G-1-TF
NEW! Receptacle — RoHS Compliant NEW!									
3	20	4.5	9.1	455-1894-1-ND	18.83	168.44	743.12	793.00/M	20R-JMDSS-G-1-TF(S)(LF)(SN)
	30	7.0	11.6	455-1895-1-ND	20.76	185.77	819.56	874.00/M	30R-JMDSS-G-1-TF(S)(LF)(SN)
	40	9.5	14.1	455-1896-1-ND	26.10	233.51	1030.18	1099.00/M	40R-JMDSS-G-1-TF(S)(LF)(SN)
	50	12.0	16.6	455-1897-1-ND	31.10	278.23	1227.47	1309.00/M	50R-JMDSS-G-1-TF(S)(LF)(SN)
	60	14.5	19.1	455-1898-1-ND	34.63	309.83	1366.88	1458.00/M	60R-JMDSS-G-1-TF(S)(LF)(SN)
	70	17.0	21.6	455-1899-1-ND	38.15	341.38	1506.08	1606.00/M	70R-JMDSS-G-1-TF(S)(LF)(SN)
	80	19.5	24.1	455-1900-1-ND	39.53	353.69	1560.41	1664.00/M	80R-JMDSS-G-1-TF(S)(LF)(SN)
	100	24.5	29.1	455-1901-1-ND	54.37	486.45	2146.09	2289.00/M	100R-JMDSS-G-1-TF(S)(LF)(SN)

* For Tape and Reel part number, change 1-ND to 2-ND.

SH Series 1.0mm Connectors

Features: • The Worlds First 1.0mm (.039") Pitch Crimp Style Connector • Ultra Compact, Low Profile Design with a mounting height of 2.95mm (.116") for side entry type **Specifications:** • Current Rating: 1.0A AC,DC • Voltage Rating: 50V AC,DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: AWG #32 to #28 • Color: Natural (white)

Fig. 1

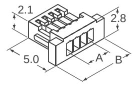

Fig. 2

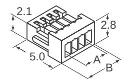

Fig. 3

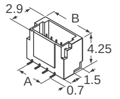

Fig. 4

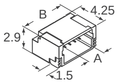

Fig.	Circuits	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	JST Part No.
Housing								
With Protrusions								
1	2	1.0	5.0	455-1377-ND	.46	3.83	15.30	SHR-02V-S-B
	3	2.0	6.0	455-1378-ND	.64	5.35	21.39	SHR-03V-S-B
	4	3.0	7.0	455-1379-ND	.76	6.31	25.23	SHR-04V-S-B
	5	4.0	8.0	455-1380-ND	.77	6.41	25.64	SHR-05V-S-B
	6	5.0	9.0	455-1381-ND	.84	7.03	28.12	SHR-06V-S-B
	7	6.0	10.0	455-1382-ND	.66	5.54	22.15	SHR-07V-S-B
	8	7.0	11.0	455-1383-ND	1.28	10.70	42.81	SHR-08V-S-B
	9	8.0	12.0	455-1384-ND	.97	8.05	32.19	SHR-09V-S-B
	10	9.0	13.0	455-1385-ND	1.63	13.57	54.28	SHR-10V-S-B
	11	10.0	14.0	455-1386-ND	.94	7.82	31.28	SHR-11V-S-B
	12	11.0	15.0	455-1387-ND	.97	8.09	32.34	SHR-12V-S-B
	13	12.0	16.0	455-1388-ND	.76	6.33	25.32	SHR-13V-S-B
	14	13.0	17.0	455-1389-ND	1.38	11.48	45.91	SHR-14V-S-B
	15	14.0	18.0	455-1390-ND	.76	6.31	25.23	SHR-15V-S-B
	20	19.0	23.0	455-1391-ND	1.26	10.50	41.99	SHR-20V-S-B
Without Protrusions								
2	2	1.0	3.0	455-1392-ND	.34	2.84	11.37	SHR-02V-S
	3	2.0	4.0	455-1393-ND	.64	5.35	21.39	SHR-03V-S
	4	3.0	5.0	455-1394-ND	.68	5.65	22.58	SHR-04V-S
	5	4.0	6.0	455-1395-ND	.49	4.04	16.17	SHR-05V-S
	6	5.0	7.0	455-1396-ND	.68	5.69	22.77	SHR-06V-S
	7	6.0	8.0	455-1397-ND	1.17	9.77	39.09	SHR-07V-S
	8	7.0	9.0	455-1398-ND	1.28	10.70	42.81	SHR-08V-S
	9	8.0	10.0	455-1399-ND	.97	8.05	32.19	SHR-09V-S
	10	9.0	11.0	455-1400-ND	1.63	13.57	54.28	SHR-10V-S
	11	10.0	12.0	455-1401-ND	.94	7.82	31.28	SHR-11V-S
	12	11.0	13.0	455-1402-ND	1.02	8.53	34.12	SHR-12V-S
	13	12.0	14.0	455-1403-ND	.74	6.13	24.53	SHR-13V-S
	14	13.0	15.0	455-1404-ND	1.04	8.63	34.52	SHR-14V-S
	15	14.0	16.0	455-1405-ND	1.53	12.72	50.87	SHR-15V-S

Fig.	Circuits	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Tape & Reel* Size	Tape & Reel* Pricing	JST Part No.
Shrouded Header										
Top Entry Type										
3	4	3.0	6.0	455-1408-1-ND	6.70	59.98	264.60	—	—	BM04B-SRSS-TB
	6	5.0	8.0	455-1410-1-ND	8.95	80.06	353.21	1,500	377.00/M	BM06B-SRSS-TB
	8	7.0	10.0	455-1412-1-ND	10.84	97.01	427.99	1,500	457.00/M	BM08B-SRSS-TB
	9	8.0	11.0	455-1413-1-ND	11.65	104.24	459.90	1,500	491.00/M	BM09B-SRSS-TB
	11	10.0	13.0	455-1415-1-ND	13.35	119.48	527.10	1,500	562.00/M	BM11B-SRSS-TB
	12	11.0	14.0	455-1416-1-ND	12.16	108.77	479.89	—	—	BM12B-SRSS-TB
	13	12.0	15.0	455-1417-1-ND	15.05	134.61	593.89	1,500	633.00/M	BM13B-SRSS-TB
	14	13.0	16.0	455-1418-1-ND	16.51	147.70	651.60	—	—	BM14B-SRSS-TB
	15	14.0	17.0	455-1419-1-ND	17.14	153.31	676.39	1,500	721.00/M	BM15B-SRSS-TB
NEW! Top Entry Type — RoHS Compliant NEW!										
3	2	1.0	4.0	455-1788-1-ND	4.86	43.51	191.94	1,500	205.00/M	BM02B-SRSS-TB(LF)(SN)
	3	2.0	5.0	455-1789-1-ND	5.71	51.12	225.54	1,500	241.00/M	BM03B-SRSS-TB(LF)(SN)
	4	3.0	6.0	455-1790-1-ND	6.70	59.98	264.60	1,500	282.00/M	BM04B-SRSS-TB(LF)(SN)
	5	4.0	7.0	455-1791-1-ND	8.13	72.73	320.89	1,500	342.00/M	BM05B-SRSS-TB(LF)(SN)
	6	5.0	8.0	455-1792-1-ND	8.95	80.06	353.21	1,500	377.00/M	BM06B-SRSS-TB(LF)(SN)
	7	6.0	9.0	455-1793-1-ND	9.78	87.49	385.99	1,500	412.00/M	BM07B-SRSS-TB(LF)(SN)
	8	7.0	10.0	455-1794-1-ND	10.84	97.01	427.99	1,500	457.00/M	BM08B-SRSS-TB(LF)(SN)
	9	8.0	11.0	455-1795-1-ND	11.65	104.24	459.90	1,500	491.00/M	BM09B-SRSS-TB(LF)(SN)
	10	9.0	12.0	455-1796-1-ND	12.50	111.86	493.50	1,500	526.00/M	BM10B-SRSS-TB(LF)(SN)
	11	10.0	13.0	455-1797-1-ND	13.35	119.48	527.10	1,500	562.00/M	BM11B-SRSS-TB(LF)(SN)
	12	11.0	14.0	455-1798-1-ND	14.06	125.77	554.89	1,500	592.00/M	BM12B-SRSS-TB(LF)(SN)
	13	12.0	15.0	455-1799-1-ND	15.05	134.61	593.89	1,500	633.00/M	BM13B-SRSS-TB(LF)(SN)
	14	13.0	16.0	455-1800-1-ND	16.51	147.70	651.60	1,500	695.00/M	BM14B-SRSS-TB(LF)(SN)
	15	14.0	17.0	455-1801-1-ND	17.14	153.31	676.39	1,500	721.00/M	BM15B-SRSS-TB(LF)(SN)
Side Entry Type										
4	2	1.0	4.0	455-1420-1-ND	4.70	42.08	185.64	3,000	198.00/M	SM02B-SRSS-TB
	4	3.0	6.0	455-1422-1-ND	6.44	57.60	254.10	3,000	271.00/M	SM04B-SRSS-TB
	5	4.0	7.0	455-1423-1-ND	7.99	71.49	315.41	—	—	SM05B-SRSS-TB
	7	6.0	9.0	455-1425-1-ND	9.70	86.82	383.03	3,000	409.00/M	SM07B-SRSS-TB
	8	7.0	10.0	455-1426-1-ND	10.55	94.44	416.64	—	—	SM08B-SRSS-TB
	9	8.0	11.0	455-1427-1-ND	8.34	74.64	329.31	3,000	351.00/M	SM09B-SRSS-TB
	10	9.0	12.0	455-1428-1-ND	12.41	111.00	489.71	—	—	SM10B-SRSS-TB
	11	10.0	13.0	455-1429-1-ND	13.30	119.00	525.00	3,000	560.00/M	SM11B-SRSS-TB
	12	11.0	14.0	455-1430-1-ND	15.65	140.04	617.81	—	—	SM12B-SRSS-TB
	13	12.0	15.0	455-1431-1-ND	15.05	134.61	593.89	3,000	633.00/M	SM13B-SRSS-TB
	14	13.0	16.0	455-1432-1-ND	15.29	136.83	603.68	—	—	SM14B-SRSS-TB
	15	14.0	17.0	455-1433-1-ND	14.62	130.85	577.28	3,000	616.00/M	SM15B-SRSS-TB
	20	19.0	22.0	455-1434-1-ND	19.86	177.69	783.92	—	—	SM20B-SRSS-TB

* For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

JST SH Series 1.0mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dim. (mm)		Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		JST Part No.
		A	B		10	100	500	Size	Pricing	
NEW! Side Entry Type — RoHS Compliant NEW!										
4	2	1.0	4.0	455-1802-1-ND	4.70	42.08	185.64	3,000	198.00/M	SM02B-SRSS-TB(LF)(SN)
	3	2.0	5.0	455-1803-1-ND	5.60	50.07	220.91	3,000	236.00/M	SM03B-SRSS-TB(LF)(SN)
	4	3.0	6.0	455-1804-1-ND	6.44	57.60	254.10	3,000	271.00/M	SM04B-SRSS-TB(LF)(SN)
	5	4.0	7.0	455-1805-1-ND	7.99	71.49	315.41	3,000	336.00/M	SM05B-SRSS-TB(LF)(SN)
	6	5.0	8.0	455-1806-1-ND	8.85	79.21	349.44	3,000	373.00/M	SM06B-SRSS-TB(LF)(SN)
	7	6.0	9.0	455-1807-1-ND	9.70	86.82	383.04	3,000	409.00/M	SM07B-SRSS-TB(LF)(SN)
	8	7.0	10.0	455-1808-1-ND	10.55	94.44	416.64	3,000	444.00/M	SM08B-SRSS-TB(LF)(SN)
	9	8.0	11.0	455-1809-1-ND	11.53	103.20	455.29	3,000	486.00/M	SM09B-SRSS-TB(LF)(SN)
	10	9.0	12.0	455-1810-1-ND	12.41	111.00	489.71	3,000	522.00/M	SM10B-SRSS-TB(LF)(SN)
	11	10.0	13.0	455-1811-1-ND	13.30	119.00	525.00	3,000	560.00/M	SM11B-SRSS-TB(LF)(SN)
	12	11.0	14.0	455-1812-1-ND	13.99	125.16	552.19	3,000	589.00/M	SM12B-SRSS-TB(LF)(SN)
	13	12.0	15.0	455-1813-1-ND	15.05	134.61	593.89	3,000	633.00/M	SM13B-SRSS-TB(LF)(SN)
	14	13.0	16.0	455-1814-1-ND	15.29	136.83	603.68	3,000	644.00/M	SM14B-SRSS-TB(LF)(SN)
	15	14.0	17.0	455-1815-1-ND	15.93	142.55	628.91	3,000	671.00/M	SM15B-SRSS-TB(LF)(SN)
	20	19.0	22.0	455-1816-1-ND	19.86	177.69	783.92	3,000	836.00/M	SM20B-SRSS-TB(LF)(SN)
Contacts-Tin Plated										
28-32 AWG				455-1561-1-ND		7.14/100		23,000	34.00/M	SSH-003T-P0.2
Crimp Tool										
28-32 AWG				455-1376-ND		771.68/1		—	—	WC-SH2832

* For Tape and Reel part number, change 1-ND to 2-ND.

SHD Series 1.0mm Connectors

Features: • Ultra compact double row design • Low Profile with a mounting height of 6.3mm (.248") for top entry type and 5.5mm (.217") for side entry type, and a width of 5.0mm (.197") for top entry type and 5.1mm (.201") for side entry type • Reliable Contact: The same contact can be used for the single row SH connectors • Anti-Misinsertion Feature: Ribs and grooves on the header and receptacle prevent misinsertion and distortion during mating and unmating. **Specifications:** • Current Rating: 1.0A AC,DC • Voltage Rating: 50V AC,DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: AWG #32 to #28 • Color: Natural (White)

Fig. 1

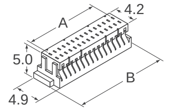

Fig. 2

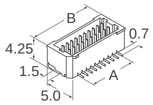

Fig. 3

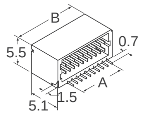

Fig. 4

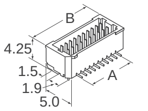

Fig.	Cir-cuits	Dim. (mm)		Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		JST Part No.
		A	B		10	100	500	Size	Pricing	
Housing										
1	20	9.0	13.0	455-1436-ND‡	1.19	9.91	39.62	—	—	SHDR-20V-S-B
	30	14.0	18.0	455-1437-ND‡	1.95	16.29	65.14	—	—	SHDR-30V-S-B
	40	19.0	23.0	455-1438-ND‡	1.98	16.49	65.97	—	—	SHDR-40V-S-B
	50	24.0	28.0	455-1439-ND‡	2.05	17.06	68.24	—	—	SHDR-50V-S-B
Shrouded Header										
Top Entry Type										
2	20	9.0	12.3	455-1440-1-ND	20.53	183.66	810.24	—	—	BM20B-SRDS-G-TF
	30	14.0	17.3	455-1441-1-ND	30.41	272.07	1200.32	1,500	1280.00/M	BM30B-SRDS-G-TF
	50	24.0	27.3	455-1443-1-ND	45.99	411.45	1815.21	1,500	1936.00/M	BM50B-SRDS-G-TF
NEW! Top Entry Type — RoHS Compliant NEW!										
2	20	9.0	12.3	455-1862-1-ND	23.28	208.28	918.90	1,500	980.00/M	BM20B-SRDS-G-TF(LF)(SN)
	30	14.0	17.3	455-1863-1-ND	30.41	272.07	1200.32	1,500	1280.00/M	BM30B-SRDS-G-TF(LF)(SN)
	40	19.0	22.3	455-1864-1-ND	38.20	341.76	1507.76	1,500	1608.00/M	BM40B-SRDS-G-TF(LF)(SN)
	50	24.0	27.3	455-1865-1-ND	45.99	411.45	1815.21	1,500	1936.00/M	BM50B-SRDS-G-TF(LF)(SN)
Side Entry Type										
3	30	14.0	18.1	455-1445-1-ND	21.59	193.19	852.32	—	—	SM30B-SRDS-G-TF
	40	19.0	23.1	455-1446-1-ND	29.77	266.39	1175.23	—	—	SM40B-SRDS-G-TF
	50	24.0	28.1	455-1447-1-ND	43.36	387.98	1711.69	—	—	SM50B-SRDS-G-TF
NEW! Side Entry Type — RoHS Compliant NEW!										
3	20	9.0	13.1	455-1866-1-ND	25.56	228.71	1009.03	1,250	1076.00/M	SM20B-SRDS-G-TF(LF)(SN)
	30	14.0	18.1	455-1867-1-ND	29.09	260.31	1148.44	1,250	1225.00/M	SM30B-SRDS-G-TF(LF)(SN)
	40	19.0	23.1	455-1868-1-ND	36.87	329.88	1455.34	1,250	1552.00/M	SM40B-SRDS-G-TF(LF)(SN)
	50	24.0	28.1	455-1869-1-ND	43.36	387.98	1711.69	1,250	1826.00/M	SM50B-SRDS-G-TF(LF)(SN)
Top Entry Type with a Boss										
4	20	9.0	12.3	455-1448-1-ND	23.28	208.33	919.09	—	—	BM20B-SRDS-A-G-TF
	30	14.0	17.3	455-1449-1-ND	30.41	272.11	1200.51	1,250	1281.00/M	BM30B-SRDS-A-G-TF
	40	19.0	22.3	455-1450-1-ND	38.20	341.80	1507.95	1,250	1608.00/M	BM40B-SRDS-A-G-TF
	50	24.0	27.3	455-1451-1-ND	45.99	411.49	1815.39	1,250	1936.00/M	BM50B-SRDS-A-G-TF
NEW! Top Entry Type with a Boss — RoHS Compliant NEW!										
4	20	9.0	12.3	455-1870-1-ND	23.28	208.33	919.09	1,250	980.00/M	BM20B-SRDS-A-G-TF(LF)(SN)
	30	14.0	17.3	455-1871-1-ND	30.41	272.11	1200.51	1,250	1281.00/M	BM30B-SRDS-A-G-TF(LF)(SN)
	40	19.0	22.3	455-1872-1-ND	38.20	341.80	1507.95	1,250	1608.00/M	BM40B-SRDS-A-G-TF(LF)(SN)
	50	24.0	27.3	455-1873-1-ND	45.99	411.49	1815.39	1,250	1936.00/M	BM50B-SRDS-A-G-TF(LF)(SN)
Contacts-Tin Plated										
28-32 AWG				455-1435-1-ND	.63	5.61	24.75	23,000	26.00/M	SSH-003GA-P0.2
Crimp Tools										
28-32 AWG				455-1376-ND		771.68/1		—	—	WC-SH2832

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Bulk

GH Series 1.25mm Connectors

Developed for Plasma Display Panels, LCD Monitors, notebook PC's, PDA's, mobile phones and other small electronic equipment. **Features:** The innovative housing lock design achieves a locking device which is easy to handle as well as secure. The header is fully shrouded and this protects the receptacle from damage that could be caused by mating the connector at an angle. **Specifications:** • Current Rating: 1.0A AC/DC (26 AWG) • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: Conductor Size / 30 ~ 26 AWG

Fig. 1

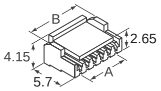

Fig. 2

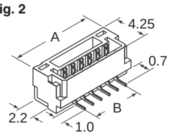

Fig. 3

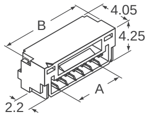

Fig.	Cir-cuits	Dim. (mm)		Digi-Key Part No.	Pricing			JST Part No.
		A	B		10	100	500	
Housing								
1	2	1.25	3.75	455-1592-ND	6.14	51.13	204.50	GHR-02V-S
	3	2.50	5.00	455-1593-ND	.65	5.38	21.52	GHR-03V-S
	4	3.75	6.25	455-1594-ND	.68	5.65	22.60	GHR-04V-S
	5	5.00	7.50	455-1595-ND	1.10	9.15	36.59	GHR-05V-S
	6	6.25	8.75	455-1596-ND	1.12	9.31	37.24	GHR-06V-S
	7	7.50	10.00	455-1597-ND	1.13	9.42	37.67	GHR-07V-S
	8	8.75	11.25	455-1598-ND	1.14	9.53	38.10	GHR-08V-S
	9	10.00	12.50	455-1599-ND	1.16	9.69	38.74	GHR-09V-S
	10	11.25	13.75	455-1600-ND	1.18	9.85	39.39	GHR-10V-S
	11	12.50	15.00	455-1601-ND	1.20	10.01	40.03	GHR-11V-S
	12	13.75	16.25	455-1602-ND	1.23	10.22	40.89	GHR-12V-S
	13	15.00	17.50	455-1603-ND	1.25	10.44	41.75	GHR-13V-S
	14	16.25	18.75	455-1604-ND	1.27	10.61	42.42	GHR-14V-S
	15	17.50	20.00	455-1605-ND	1.30	10.82	43.28	GHR-15V-S

Fig.	Cir-cuits	Dim. (mm)		Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		JST Part No.
		A	B		10	100	500	Size	Pricing	
Headers										
Top Entry										
2	2	1.25	5.75	455-1578-1-ND	5.03	45.01	198.58	2,500	212.00/M	BM02B-GHS-TBT(LF)(SN)
	3	2.50	7.00	455-1579-1-ND	5.43	48.59	214.35	2,500	170.00/M	BM03B-GHS-TBT(LF)(SN)
	4	3.75	8.25	455-1580-1-ND	4.30	38.51	169.91	2,500	181.00/M	BM04B-GHS-TBT(LF)(SN)
	5	5.00	9.50	455-1581-1-ND	6.07	54.35	239.78	2,500	256.00/M	BM05B-GHS-TBT(LF)(SN)
	6	6.25	10.75	455-1582-1-ND	6.89	61.63	271.88	2,500	290.00/M	BM06B-GHS-TBT(LF)(SN)
	7	7.50	12.00	455-1583-1-ND	7.70	68.90	303.96	2,500	324.00/M	BM07B-GHS-TBT(LF)(SN)
	8	8.75	13.25	455-1584-1-ND	7.98	71.37	314.85	2,500	336.00/M	BM08B-GHS-TBT(LF)(SN)
	9	10.00	14.50	455-1585-1-ND	8.33	74.56	328.95	2,500	351.00/M	BM09B-GHS-TBT(LF)(SN)
	10	11.25	15.75	455-1586-1-ND	8.87	79.32	349.95	2,500	373.00/M	BM10B-GHS-TBT(LF)(SN)
	11	12.50	17.00	455-1587-1-ND	9.58	85.73	378.21	2,500	403.00/M	BM11B-GHS-TBT(LF)(SN)
	12	13.75	18.25	455-1588-1-ND	9.64	86.28	380.63	2,500	406.00/M	BM12B-GHS-TBT(LF)(SN)
	13	15.00	19.50	455-1589-1-ND	10.30	92.13	406.46	2,500	434.00/M	BM13B-GHS-TBT(LF)(SN)
	14	16.25	20.75	455-1590-1-ND	10.31	92.23	406.88	2,500	434.00/M	BM14B-GHS-TBT(LF)(SN)
	15	17.50	22.00	455-1591-1-ND	10.66	95.42	420.98	2,500	449.00/M	BM15B-GHS-TBT(LF)(SN)
Side Entry										
3	2	1.25	5.75	455-1564-1-ND	4.65	41.63	183.66	2,500	196.00/M	SM02B-GHS-TB(LF)(SN)
	3	2.50	7.00	455-1565-1-ND	4.94	44.19	194.94	2,500	208.00/M	SM03B-GHS-TB(LF)(SN)
	4	3.75	8.25	455-1566-1-ND	5.25	46.94	207.09	2,500	221.00/M	SM04B-GHS-TB(LF)(SN)
	5	5.00	9.50	455-1567-1-ND	5.52	49.41	217.97	2,500	233.00/M	SM05B-GHS-TB(LF)(SN)
	6	6.25	10.75	455-1568-1-ND	6.75	60.38	266.38	2,500	284.00/M	SM06B-GHS-TB(LF)(SN)
	7	7.50	12.00	455-1569-1-ND	7.01	62.76	276.90	2,500	295.00/M	SM07B-GHS-TB(LF)(SN)
	8	8.75	13.25	455-1570-1-ND	7.52	67.24	296.66	2,500	316.00/M	SM08B-GHS-TB(LF)(SN)
	9	10.00	14.50	455-1571-1-ND	8.01	71.64	316.05	2,500	337.00/M	SM09B-GHS-TB(LF)(SN)
	10	11.25	15.75	455-1572-1-ND	8.28	74.11	326.94	2,500	349.00/M	SM10B-GHS-TB(LF)(SN)
	11	12.50	17.00	455-1573-1-ND	8.64	77.31	341.08	2,500	364.00/M	SM11B-GHS-TB(LF)(SN)
	12	13.75	18.25	455-1574-1-ND	8.97	80.24	353.98	2,500	378.00/M	SM12B-GHS-TB(LF)(SN)
	13	15.00	19.50	455-1575-1-ND	9.23	82.62	364.50	2,500	389.00/M	SM13B-GHS-TB(LF)(SN)
	14	16.25	20.75	455-1576-1-ND	9.51	85.09	375.39	2,500	400.00/M	SM14B-GHS-TB(LF)(SN)
	15	17.50	22.00	455-1577-1-ND	9.78	87.47	385.88	2,500	412.00/M	SM15B-GHS-TB(LF)(SN)
Contacts/Tools										
30 ~ 26 AWG, Tin-Plated				455-1606-2-ND‡	—	—	—	23,000	18.00/M	SSHL-002T-P0.2
30 ~ 26 AWG, Tin-Plated				455-1607-1-ND	3.15	28.22	124.52	1,000	133.00	MINI-SSHL-002T-P0.2
Crimp Tool for 30 ~ 26 AWG				455-1609-ND		943.16/1		—	—	YRS-1140
Crimp Tool for Mini Reel				455-1608-ND		1216.64/1		—	—	WC-GH2630

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Tape and Reel (not available in Cut Tape).

ZH Series 1.5mm Connectors

Features: • This connector requires only about 45% of the installation space required by the standard JST 2.0mm connector • Contact retention lances allow visual confirmation of contact lock-in • The dimple at the center of the contact ensures positive contact and low contact resistance at all times, even when the connector is subjected to vibration or distortion. **Specifications:** • Current Rating: 1.0A AC/DC • Voltage Rating: 50V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 36 ~ 32 AWG

Fig. 1

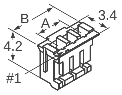

Fig. 2

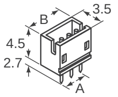

Fig. 3

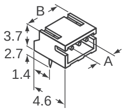

Fig. 4

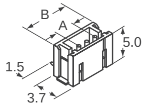

Fig. 5

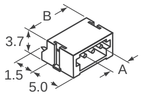

Fig.	Circuits	Dimensions (mm)		Digi-Key Part No.	Pricing			JST Part No.
		A	B		10	100	500	
Housing — Color Natural White								
1	2	1.5	4.5	455-1366-ND	.36	2.97	11.87	ZHR-2
	3	3.0	6.0	455-1160-ND	.37	3.08	12.32	ZHR-3
	4	4.5	7.5	455-1202-ND	.54	4.54	18.14	ZHR-4

* For Tape and Reel part number, change 1-ND to 2-ND. ‡ Tape & Reel (not available in Cut Tape).

(Continued)

JST ZH Series 1.5mm Connectors *(Cont.)*

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Housing — Color Natural White								
1	5	6.0	9.0	455-1201-ND	.47	3.92	15.68	ZHR-5
	6	7.5	10.5	455-1129-ND	.76	6.33	25.31	ZHR-6
	7	9.0	12.0	455-1200-ND	.94	7.84	31.36	ZHR-7
	8	10.5	13.5	455-1199-ND	.83	6.95	27.78	ZHR-8
	9	12.0	15.0	455-1196-ND	1.04	8.63	34.50	ZHR-9
	10	13.5	16.5	455-1197-ND	1.05	8.74	34.94	ZHR-10
	11	15.0	18.0	455-1191-ND	1.48	12.32	49.28	ZHR-11
	12	16.5	19.5	455-1195-ND	1.46	12.15	48.61	ZHR-12
	13	18.0	21.0	455-1194-ND	1.51	12.55	50.18	ZHR-13
Headers — Color Natural Ivory								
Top Entry Thru-hole (Shrouded)								
2	6	7.5	10.5	455-1240-ND	1.77	14.73	58.91	B6B-ZR
	7	9.0	12.0	455-1234-ND	2.20	18.31	73.25	B7B-ZR
	9	12.0	15.0	455-1224-ND	2.72	22.68	90.72	B9B-ZR
	11	15.0	18.0	455-1222-ND	3.76	31.36	125.44	B11B-ZR
	12	16.5	19.5	455-1208-ND	3.98	33.21	132.83	B12B-ZR
	13	18.0	21.0	455-1209-ND	3.67	30.58	122.30	B13B-ZR
NEW! Top Entry Thru-hole (Shrouded) — RoHS Compliant NEW!								
2	2	1.5	4.5	455-1657-ND	.81	6.78	27.10	B2B-ZR(LF)(SN)
	3	3.0	6.0	455-1658-ND	1.06	8.79	35.17	B3B-ZR(LF)(SN)
	4	4.5	7.5	455-1659-ND	1.27	10.59	42.34	B4B-ZR(LF)(SN)
	5	6.0	9.0	455-1660-ND	1.51	12.55	50.18	B5B-ZR(LF)(SN)
	6	7.5	10.5	455-1661-ND	1.77	14.73	58.91	B6B-ZR(LF)(SN)
	7	9.0	12.0	455-1662-ND	2.20	18.31	73.25	B7B-ZR(LF)(SN)
	8	10.5	13.5	455-1663-ND	2.35	19.60	78.40	B8B-ZR(LF)(SN)
	9	12.0	15.0	455-1664-ND	2.72	22.68	90.72	B9B-ZR(LF)(SN)
	10	13.5	16.5	455-1665-ND	2.90	24.19	96.77	B10B-ZR(LF)(SN)
	11	15.0	18.0	455-1666-ND	3.76	31.36	125.44	B11B-ZR(LF)(SN)
	12	16.5	19.5	455-1667-ND	3.98	33.21	132.83	B12B-ZR(LF)(SN)
	13	18.0	21.0	455-1668-ND	4.04	33.63	134.50	B13B-ZR(LF)(SN)
Side Entry Thru-hole (Shrouded)								
3	2	1.5	4.5	455-1210-ND	.89	7.39	29.57	S2B-ZR
	3	3.0	6.0	455-1254-ND	1.16	9.63	38.53	S3B-ZR
	4	4.5	7.5	455-1261-ND	1.43	11.93	47.71	S4B-ZR
	7	9.0	12.0	455-1248-ND	2.50	20.83	83.33	S7B-ZR
	8	10.5	13.5	455-1249-ND	2.72	22.63	90.50	S8B-ZR
	9	12.0	15.0	455-1250-ND	3.04	25.37	101.47	S9B-ZR
	10	13.5	16.5	455-1251-ND	3.35	27.95	111.78	S10B-ZR
	11	15.0	18.0	455-1245-ND	3.68	30.63	122.53	S11B-ZR
	12	16.5	19.5	455-1253-ND	3.96	33.04	132.16	S12B-ZR
	13	18.0	21.0	455-1252-ND	4.26	35.51	142.02	S13B-ZR
NEW! Side Entry Thru-hole (Shrouded) — RoHS Compliant NEW!								
3	2	1.5	4.5	455-1669-ND	.89	7.39	29.57	S2B-ZR(LF)(SN)
	3	3.0	6.0	455-1670-ND	1.16	9.63	38.53	S3B-ZR(LF)(SN)
	4	4.5	7.5	455-1671-ND	1.43	11.93	47.71	S4B-ZR(LF)(SN)
	5	6.0	9.0	455-1672-ND	1.71	14.28	57.12	S5B-ZR(LF)(SN)
	6	7.5	10.5	455-1673-ND	2.07	17.25	68.99	S6B-ZR(LF)(SN)
	7	9.0	12.0	455-1674-ND	2.50	20.83	83.33	S7B-ZR(LF)(SN)
	8	10.5	13.5	455-1675-ND	2.72	22.63	90.50	S8B-ZR(LF)(SN)
	9	12.0	15.0	455-1676-ND	3.04	25.37	101.47	S9B-ZR(LF)(SN)
	10	13.5	16.5	455-1677-ND	3.35	27.95	111.78	S10B-ZR(LF)(SN)
	11	15.0	18.0	455-1678-ND	3.68	30.63	122.53	S11B-ZR(LF)(SN)
	12	16.5	19.5	455-1679-ND	3.96	33.04	132.16	S12B-ZR(LF)(SN)
	13	18.0	21.0	455-1680-ND	4.26	35.51	142.02	S13B-ZR(LF)(SN)

Fig.	Circuits	Dim. (mm) A	B	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape & Reel* Size	Pricing	JST Part No.
Headers										
Top Entry SMT (Shrouded)										
4	3	3.0	7.5	455-1299-1-ND	7.00	62.64	276.36	—	—	B3B-ZR-SM3-TF
	4	4.5	9.0	455-1300-1-ND	7.59	67.88	299.46	1,000	319.00	B4B-ZR-SM3-TF
	6	7.5	12.0	455-1297-1-ND	9.24	82.63	364.56	1,000	389.00	B6B-ZR-SM3-TF
	8	10.5	15.0	455-1303-1-ND	10.35	92.63	408.66	1,000	436.00	B8B-ZR-SM3-TF
	9	12.0	16.5	455-1304-1-ND	10.94	97.86	431.76	—	—	B9B-ZR-SM3-TF
	11	15.0	19.5	455-1296-1-ND	12.84	114.91	506.94	1,000	541.00	B11B-ZR-SM3-TF
	12	16.5	21.0	455-1289-1-ND	13.36	119.57	527.51	—	—	B12B-ZR-SM3-TF
	13	18.0	22.5	455-1295-1-ND	14.04	125.63	554.27	1,000	591.00	B13B-ZR-SM3-TF
NEW! Top Entry SMT (Shrounded) — RoHS Compliant NEW!										
4	2	1.5	6.0	455-1681-1-ND	6.26	55.98	246.96	1,000	263.00	B2B-ZR-SM4-TF(LF)(SN)
	3	3.0	7.5	455-1682-1-ND	7.00	62.64	276.36	1,000	295.00	B3B-ZR-SM4-TF(LF)(SN)
	4	4.5	9.0	455-1683-1-ND	7.59	67.88	299.46	1,000	319.00	B4B-ZR-SM4-TF(LF)(SN)
	5	6.0	10.5	455-1684-1-ND	8.40	75.11	331.39	1,000	353.00	B5B-ZR-SM4-TF(LF)(SN)
	6	7.5	12.0	455-1685-1-ND	9.24	82.63	364.56	1,000	389.00	B6B-ZR-SM4-TF(LF)(SN)
	7	9.0	13.5	455-1686-1-ND	9.83	87.97	388.09	1,000	414.00	B7B-ZR-SM4-TF(LF)(SN)
	8	10.5	15.0	455-1687-1-ND	10.35	92.63	408.66	1,000	436.00	B8B-ZR-SM4-TF(LF)(SN)
	9	12.0	16.5	455-1688-1-ND	10.94	97.85	431.68	1,000	460.00	B9B-ZR-SM4-TF(LF)(SN)
	10	13.5	18.0	455-1689-1-ND	12.02	107.58	474.60	1,000	506.00	B10B-ZR-SM4-TF(LF)(SN)
	11	15.0	19.5	455-1690-1-ND	12.84	114.91	506.94	1,000	541.00	B11B-ZR-SM4-TF(LF)(SN)
	12	16.5	21.0	455-1691-1-ND	13.36	119.57	527.51	1,000	563.00	B12B-ZR-SM4-TF(LF)(SN)
	13	18.0	22.5	455-1692-1-ND	14.04	125.63	554.27	1,000	591.00	B13B-ZR-SM4-TF(LF)(SN)
Side Entry SMT (Shrouded)										
5	3	3.0	7.5	455-1284-1-ND	6.99	62.55	275.94	—	—	S3B-ZR-SM3A-TF
	6	7.5	12.0	455-1285-1-ND	8.64	77.30	341.04	—	—	S6B-ZR-SM3A-TF
	7	9.0	13.5	455-1287-1-ND	9.45	84.54	372.96	—	—	S7B-ZR-SM3A-TF
	8	10.5	15.0	455-1283-1-ND	10.83	96.91	427.56	1,000	456.00	S8B-ZR-SM3A-TF
	9	12.0	16.5	455-1288-1-ND	11.45	102.43	451.91	—	—	S9B-ZR-SM3A-TF
	10	13.5	18.0	455-1290-1-ND	11.84	105.96	467.46	—	—	S10B-ZR-SM3A-TF
	11	15.0	19.5	455-1291-1-ND	12.41	111.00	489.71	1,000	522.00	S11B-ZR-SM3A-TF
	12	16.5	21.0	455-1292-1-ND	12.58	112.53	496.44	—	—	S12B-ZR-SM3A-TF
	13	18.0	22.5	455-1293-1-ND	12.70	113.65	501.41	1,000	535.00	S13B-ZR-SM3A-TF

* For Tape and Reel part number, change 1-ND to 2-ND.

Fig.	Circuits	Dim. (mm) A	B	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape & Reel* Size	Pricing	JST Part No.
NEW! Side Entry SMT (Shrouded) — RoHS Compliant NEW!										
5	2	1.5	6.0	455-1693-1-ND	5.99	53.60	236.46	1,000	252.00	S2B-ZR-SM4A-TF(LF)(SN)
	3	3.0	7.5	455-1694-1-ND	6.99	62.55	275.94	1,000	294.00	S3B-ZR-SM4A-TF(LF)(SN)
	4	4.5	9.0	455-1695-1-ND	7.56	67.69	298.61	1,000	319.00	S4B-ZR-SM4A-TF(LF)(SN)
	5	6.0	9.0	455-1696-1-ND	8.15	72.92	321.71	1,000	343.00	S5B-ZR-SM4A-TF(LF)(SN)
	6	7.5	10.0	455-1610-1-ND	8.64	77.30	341.04	1,000	364.00	S6B-ZR-SM4A-TF(LF)(SN)
	7	9.0	13.5	455-1697-1-ND	9.45	84.54	372.96	1,000	398.00	S7B-ZR-SM4A-TF(LF)(SN)
	8	10.5	15.0	455-1698-1-ND	10.83	96.91	427.56	1,000	456.00	S8B-ZR-SM4A-TF(LF)(SN)
	9	12.0	16.5	455-1699-1-ND	11.45	102.43	451.91	1,000	482.00	S9B-ZR-SM4A-TF(LF)(SN)
	10	13.5	18.0	455-1700-1-ND	11.84	105.96	467.46	1,000	499.00	S10B-ZR-SM4A-TF(LF)(SN)
	11	15.0	19.5	455-1701-1-ND	12.41	111.00	489.71	1,000	522.00	S11B-ZR-SM4A-TF(LF)(SN)
	12	16.5	21.0	455-1702-1-ND	12.58	112.53	496.44	1,000	530.00	S12B-ZR-SM4A-TF(LF)(SN)
	13	18.0	22.5	455-1703-1-ND	12.70	113.65	501.41	1,000	535.00	S13B-ZR-SM4A-TF(LF)(SN)
Contacts-Tin Plated										
28 ~ 26 AWG				455-1130-1-ND	—	2.19	9.66	13,000	10.00/M	SZH-002T-P0.5
32 ~ 28 AWG				455-1281-1-ND	—	2.19	9.66	16,000	10.00/M	SZH-003T-P0.5
Crimp Tools										
28-26 AWG				455-1131-ND		367.01/1		—	—	WC-491
32-28 AWG				455-1259-ND		367.01/1		—	—	WC-490

* For Tape and Reel part number, change 1-ND to 2-ND.

PA Family Series 2.0mm Connectors

PA Series: Features: • Standard type • Highly Reliable Contact: The contact supplies stable performance even under conditions of vibration, distortion, low voltage or low current • Insertion Guide Mechanism: The Header has housing insertion guides for easy and secure insertion • Flanged press pin **Specifications:** • Current Rating: 3A AC/DC (AWG 22) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG • Applicable PC Board Thickness: 1.6mm (.063")

PAL Series: Features: The industry's first wire to wire 2.0mm (.078") pitch retainer mountable type connector. **Specifications:** • Current Rating: 3A AC/DC (22 AWG) • Voltage Rating: 100V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG • Applicable Panel Thickness: 0.5 ~ 2.0mm (.020" ~ .079")

Fig. 1

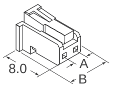

Fig. 2

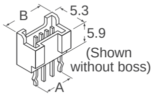

Fig. 3

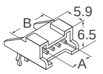

Fig. 4

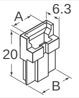

Fig. 5

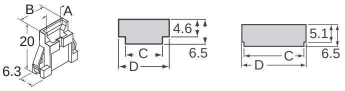

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
PA SERIES Housing								
1	2	2.0	6.0	455-1486-ND	.54	4.48	17.93	PAP-02V-S
	3	4.0	8.0	455-1487-ND	.74	6.13	24.53	PAP-03V-S
	4	6.0	10.0	455-1488-ND	.77	6.43	25.70	PAP-04V-S
	5	8.0	12.0	455-1489-ND	.95	7.90	31.58	PAP-05V-S
	6	10.0	14.0	455-1490-ND	1.05	8.78	35.13	PAP-06V-S
	7	12.0	16.0	455-1491-ND	1.01	8.41	33.63	PAP-07V-S
	8	14.0	18.0	455-1492-ND	1.12	9.32	37.28	PAP-08V-S
	9	16.0	20.0	455-1493-ND	1.03	8.60	34.41	PAP-09V-S
	10	18.0	22.0	455-1494-ND	1.01	8.39	33.56	PAP-10V-S
	11	20.0	24.0	455-1495-ND	1.09	9.07	36.27	PAP-11V-S
	12	22.0	26.0	455-1496-ND	1.11	9.27	37.08	PAP-12V-S
	13	24.0	28.0	455-1497-ND	1.14	9.53	38.13	PAP-13V-S
	14	26.0	30.0	455-1498-ND	1.12	9.37	37.47	PAP-14V-S
	15	28.0	32.0	455-1499-ND	1.22	10.21	40.83	PAP-15V-S
	16	30.0	34.0	455-1500-ND	1.27	10.57	42.28	PAP-16V-S
Headers								
Top Entry without Boss (Shrouded)								
2	4	6.0	10.0	455-1503-ND	2.15	17.94	71.75	B04B-PASK
	8	14.0	18.0	455-1507-ND	2.45	20.43	81.70	B08B-PASK
	9	16.0	20.0	455-1508-ND	4.06	33.79	135.17	B09B-PASK
	10	18.0	22.0	455-1509-ND	5.01	41.78	167.10	B10B-PASK
	11	20.0	24.0	455-1510-ND	5.35	44.54	178.17	B11B-PASK
	12	22.0	26.0	455-1511-ND	5.67	47.26	189.03	B12B-PASK
	13	24.0	28.0	455-1512-ND	6.00	50.03	200.10	B13B-PASK
	14	26.0	30.0	455-1513-ND	5.55	46.27	185.09	B14B-PASK
	15	28.0	32.0	455-1514-ND	6.67	55.62	222.46	B15B-PASK
	16	30.0	34.0	455-1515-ND	7.14	59.50	237.98	B16B-PASK
NEW! Top Entry without Boss (Shrounded) — RoHS Compliant NEW!								
2	2	2.0	6.0	455-1817-ND	1.45	12.08	48.33	B02B-PASK(LF)(SN)
	3	4.0	8.0	455-1818-ND	1.80	15.01	60.03	B03B-PASK(LF)(SN)
	4	6.0	10.0	455-1819-ND	2.15	17.94	71.75	B04B-PASK(LF)(SN)
	5	8.0	12.0	455-1820-ND	2.65	22.09	88.34	B05B-PASK(LF)(SN)
	6	10.0	14.0	455-1821-ND	2.99	24.91	99.63	B06B-PASK(LF)(SN)
	7	12.0	16.0	455-1822-ND	3.38	28.16	112.62	B07B-PASK(LF)(SN)
	8	14.0	18.0	455-1823-ND	3.72	31.03	124.10	B08B-PASK(LF)(SN)
	9	16.0	20.0	455-1824-ND	4.06	33.79	135.17	B09B-PASK(LF)(SN)
	10	18.0	22.0	455-1825-ND	5.01	41.78	167.10	B10B-PASK(LF)(SN)
	11	20.0	24.0	455-1826-ND	5.35	44.54	178.17	B11B-PASK(LF)(SN)
	12	22.0	26.0	455-1827-ND	5.67	47.26	189.03	B12B-PASK(LF)(SN)
	13	24.0	28.0	455-1828-ND	6.00	50.03	200.10	B13B-PASK(LF)(SN)
	14	26.0	30.0	455-1829-ND	6.34	52.85	211.39	B14B-PASK(LF)(SN)
	15	28.0	32.0	455-1830-ND	6.67	55.62	222.46	B15B-PASK(LF)(SN)
	16	30.0	34.0	455-1831-ND	7.14	59.50	237.98	B16B-PASK(LF)(SN)

(Continued)

PA Series 2.0mm Connectors *(Cont.)*

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Top Entry with Boss (Shrouded)								
2	3	4.0	8.0	455-1517-ND	1.66	13.83	55.32	B03B-PASK-1
	4	6.0	10.0	455-1518-ND	2.15	17.94	71.75	B04B-PASK-1
	7	12.0	16.0	455-1521-ND	3.38	28.16	112.62	B07B-PASK-1
	8	14.0	18.0	455-1522-ND	3.72	31.03	124.10	B08B-PASK-1
	9	16.0	20.0	455-1523-ND	4.06	33.79	135.17	B09B-PASK-1
	10	18.0	22.0	455-1524-ND	5.01	41.78	167.10	B10B-PASK-1
	11	20.0	24.0	455-1525-ND	5.35	44.54	178.17	B11B-PASK-1
	12	22.0	26.0	455-1526-ND	5.67	47.26	189.03	B12B-PASK-1
	13	24.0	28.0	455-1527-ND	6.00	50.03	200.10	B13B-PASK-1
	14	26.0	30.0	455-1528-ND	6.34	52.85	211.39	B14B-PASK-1
	15	28.0	32.0	455-1529-ND	6.67	55.62	222.46	B15B-PASK-1
	16	30.0	34.0	455-1530-ND	7.14	59.50	237.98	B16B-PASK-1
NEW! Top Entry with Boss (Shrouded) — RoHS Compliant NEW!								
2	2	2.0	6.0	455-1832-ND	1.45	12.08	48.33	B02B-PASK-1(LF)(SN)
	3	4.0	8.0	455-1833-ND	1.80	15.01	60.03	B03B-PASK-1(LF)(SN)
	4	6.0	10.0	455-1834-ND	2.15	17.94	71.75	B04B-PASK-1(LF)(SN)
	5	8.0	12.0	455-1835-ND	2.65	22.09	88.34	B05B-PASK-1(LF)(SN)
	6	10.0	14.0	455-1836-ND	2.99	24.91	99.63	B06B-PASK-1(LF)(SN)
	7	12.0	16.0	455-1837-ND	3.38	28.16	112.62	B07B-PASK-1(LF)(SN)
	8	14.0	18.0	455-1838-ND	3.72	31.03	124.10	B08B-PASK-1(LF)(SN)
	9	16.0	20.0	455-1839-ND	4.06	33.79	135.17	B09B-PASK-1(LF)(SN)
	10	18.0	22.0	455-1840-ND	5.01	41.78	167.10	B10B-PASK-1(LF)(SN)
	11	20.0	24.0	455-1841-ND	5.35	44.54	178.17	B11B-PASK-1(LF)(SN)
	12	22.0	26.0	455-1842-ND	5.67	47.26	189.03	B12B-PASK-1(LF)(SN)
	13	24.0	28.0	455-1843-ND	6.00	50.03	200.10	B13B-PASK-1(LF)(SN)
	14	26.0	30.0	455-1844-ND	6.34	52.85	211.39	B14B-PASK-1(LF)(SN)
	15	28.0	32.0	455-1845-ND	6.67	55.62	222.46	B15B-PASK-1(LF)(SN)
	16	30.0	34.0	455-1846-ND	7.14	59.50	237.98	B16B-PASK-1(LF)(SN)
Side Entry (Shrouded)								
3	2	2.0	6.0	455-1531-ND	1.27	10.55	42.19	S02B-PASK-2
	3	4.0	8.0	455-1532-ND	2.84	23.63	94.51	S03B-PASK-2
	4	6.0	10.0	455-1533-ND	2.89	24.09	96.34	S04B-PASK-2
	6	10.0	14.0	455-1535-ND	3.65	30.44	121.75	S06B-PASK-2
	7	12.0	16.0	455-1536-ND	4.27	35.55	142.20	S07B-PASK-2
	8	14.0	18.0	455-1537-ND	3.31	27.60	110.39	S08B-PASK-2
	9	16.0	20.0	455-1538-ND	5.02	41.80	167.20	S09B-PASK-2
	12	22.0	26.0	455-1541-ND	6.11	50.93	203.71	S12B-PASK-2
	13	24.0	28.0	455-1542-ND	6.43	53.55	214.20	S13B-PASK-2
	14	26.0	30.0	455-1543-ND	6.77	56.41	225.64	S14B-PASK-2
	15	28.0	32.0	455-1544-ND	7.08	59.02	236.07	S15B-PASK-2
	16	30.0	34.0	455-1545-ND	7.32	60.96	243.85	S16B-PASK-2
NEW! Side Entry (Shrouded) — RoHS Compliant NEW!								
3	2	2.0	6.0	455-1847-ND	1.92	16.02	64.07	S02B-PASK-2(LF)(SN)
	3	4.0	8.0	455-1848-ND	2.84	23.63	94.51	S03B-PASK-2(LF)(SN)
	4	6.0	10.0	455-1849-ND	3.14	26.13	104.51	S04B-PASK-2(LF)(SN)
	5	8.0	12.0	455-1850-ND	3.51	29.27	117.09	S05B-PASK-2(LF)(SN)
	6	10.0	14.0	455-1851-ND	3.65	30.44	121.75	S06B-PASK-2(LF)(SN)
	7	12.0	16.0	455-1852-ND	4.27	35.55	142.20	S07B-PASK-2(LF)(SN)
	8	14.0	18.0	455-1853-ND	4.64	38.64	154.54	S08B-PASK-2(LF)(SN)
	9	16.0	20.0	455-1854-ND	5.02	41.80	167.20	S09B-PASK-2(LF)(SN)
	10	18.0	22.0	455-1855-ND	5.41	45.09	180.37	S10B-PASK-2(LF)(SN)
	11	20.0	24.0	455-1856-ND	5.79	48.26	193.04	S11B-PASK-2(LF)(SN)
	12	22.0	26.0	455-1857-ND	6.11	50.93	203.71	S12B-PASK-2(LF)(SN)
	13	24.0	28.0	455-1858-ND	6.43	53.55	214.20	S13B-PASK-2(LF)(SN)
	14	26.0	30.0	455-1859-ND	6.77	56.41	225.64	S14B-PASK-2(LF)(SN)
	15	28.0	32.0	455-1860-ND	7.08	59.02	236.07	S15B-PASK-2(LF)(SN)
	16	30.0	34.0	455-1861-ND	7.32	60.96	243.85	S16B-PASK-2(LF)(SN)

Description	Digi-Key Part No.	CT Pricing 100	500	Digi-Key Part No.	T & R Pricing 8,000	JST Part No.
Contacts/Tools for PA Series						
26 ~ 22 AWG, Tin-Plated Contact	455-1325-1-ND	3.57	15.75	455-1325-2-ND	17.00/M	SPHD-001T-P0.5
28 ~ 24 AWG, Tin-Plated Contact	455-1313-1-ND	3.57	15.75	455-1313-2-ND	17.00/M	SPHD-002T-P0.5
Crimp Tool for 26 ~ 22 AWG Contact	455-1238-ND	367.01/1		—	—	WC-610
Crimp Tool for 28 ~ 24 AWG Contact	455-1237-ND	792.08/1		—	—	YRS-620

Fig.	Circuits	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
PAL SERIES										
Housing										
Without Panel Locks										
4	2	2.0	9.4	—	—	455-1548-ND	.58	4.87	19.46	PALR-02VF
	3	4.0	11.4	—	—	455-1549-ND	.62	5.19	20.77	PALR-03VF
	4	6.0	13.4	—	—	455-1550-ND	.74	6.18	24.70	PALR-04VF
	5	8.0	15.4	—	—	455-1551-ND	.77	6.42	25.69	PALR-05VF
	6	10.0	17.4	—	—	455-1552-ND	.81	6.72	26.88	PALR-06VF
	7	12.0	19.4	—	—	455-1553-ND	1.06	8.80	35.20	PALR-07VF
	8	14.0	21.4	—	—	455-1554-ND	1.29	10.72	42.87	PALR-08VF
With Panel Locks										
5	2	2.0	9.4	9.8	13.4	455-1555-ND	.61	5.08	20.32	PALR-02V
	3	4.0	11.4	11.8	15.4	455-1556-ND	.64	5.30	21.20	PALR-03V
	4	6.0	13.4	13.8	17.4	455-1557-ND	.76	6.36	25.44	PALR-04V
	6	10.0	17.4	19.8	21.4	455-1558-ND	.83	6.92	27.67	PALR-06V
	7	12.0	19.4	21.8	23.4	455-1559-ND	1.08	9.04	36.15	PALR-07V
	8	14.0	21.4	23.8	25.4	455-1560-ND	1.32	10.99	43.95	PALR-08V

Description	Digi-Key Part No.	Cut Tape Pricing 10	100	500	T & R Pricing* 10,000	JST Part No.
Contacts/Tools for PAL Series						
22 ~ 28AWG, Tin Plated Contact	455-1546-1-ND	.35	3.16	13.95	15.00/M	SPAL-001T-P0.5
24 ~ 28AWG, Tin Plated Contact	455-1547-1-ND	.35	3.16	13.95	15.00/M	SPAL-002T-P0.5
Crimp Tool for 22~28 AWG, Contact	455-1906-ND ***NEW!***	411.48/1			—	YC-610R

*For Tape and Reel part number, change 1-ND to 2-ND.

JWPF Series

2.0mm Waterproof Wire-to-Wire Connectors

Features: • Developed specifically for extreme moisture or submersion applications • Seal ring is applied for complete sealing at mating side that is contained in the tab housing which protects from dust, moisture, etc. • Solid rubber seal is used for wire side sealing that makes the size compact. • The inter-housing lock secures the plug to the receptacles and prevents accidental disconnection.

Specifications: • Current Rating: 3A AC/DC • Voltage Rating: 100V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 26 ~ 22 AWG

Material and Finish: • Tab Contact: Brass, tin-plated • Receptacle Contact: Copper alloy, tin-plated • Housing Color: Natural (white)

Fig. 1

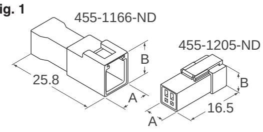

Fig. 2

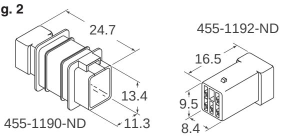

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Tab Housing								
1	2	7.0	8.1	455-1166-ND	10.54	87.86	351.42	02T-JWPF-VSLE-S
	3	9.0	8.1	455-1188-ND	11.70	97.53	390.12	03T-JWPF-VSLE-S
	4	11.0	8.1	455-1170-ND	12.16	101.35	405.40	04T-JWPF-VSLE-S
	8	11.0	12.1	455-1193-ND	15.71	130.88	523.53	08T-JWPF-VSLE-D
2	5	—	—	455-1190-ND†	23.39	194.92	779.68	05T-JWPF-HHLE-D
Receptacle Housing								
1	2	6.7	5.5	455-1205-ND	5.06	42.13	168.50	02R-JWPF-VSLE-S
	3	8.7	5.5	455-1198-ND	5.84	48.63	194.51	03R-JWPF-VSLE-S
	4	10.7	5.5	455-1203-ND	5.91	49.28	197.13	04R-JWPF-VSLE-S
	8	10.7	9.5	455-1150-ND	7.94	66.17	264.67	08R-JWPF-VSLE-D
2	5	—	—	455-1192-ND†	12.92	107.67	430.67	05R-JWPF-HHLE-D

† Housing Color: Gray

Description	Digi-Key Part No.	Pricing 10	100	500	T & R Pricing* 8,200	JST Part No.
Contacts/Tool						
26 ~ 22 AWG, Tab Contact	455-1320-1-ND	.65	5.85	25.80	28.00/M	SWPT-001T-025
26 ~ 22 AWG, Receptacle Contact	455-1321-1-ND	.80	7.15	31.56	34.00/M	SWPR-001T-P025
Production Crimp Tool	455-1370-ND	965.96/1			—	YRS-980
Crimp Tool for 26 ~ 22 AWG Contacts	455-1371-ND	367.01/1			—	WC-JWPF

* For Tape and Reel part number, change 1-ND to 2-ND.

PH Series 2.0mm Connectors

Features: • Contact has long dimples near the center to ensure a good connection at all times • Square post is copper-undercoated and tin/lead-plated for superior solderability and for whisker prevention • This connector is also available in a surface mount configuration. Its housing is made of heat resistant resin so that it is not adversely affected during reflow soldering.

Specifications: • Current Rating: 2A AC/DC • Voltage Rating: 100V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 32 ~ 24 AWG • Color: Natural (White)

Fig. 1

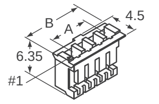

Fig. 2

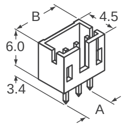

Fig. 3

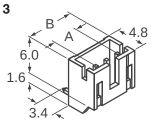

Fig. 4

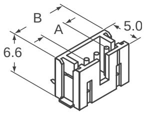

Fig. 5

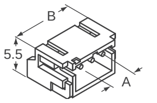

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Housing								
1	2	2.0	5.8	455-1165-ND	.41	3.45	13.78	PHR-2
	3	4.0	7.8	455-1126-ND	.42	3.53	14.11	PHR-3
	4	6.0	9.8	455-1164-ND	.51	4.29	17.14	PHR-4
	5	8.0	11.8	455-1163-ND	.53	4.45	17.81	PHR-5
	6	10.0	13.8	455-1162-ND	.58	4.87	19.49	PHR-6
	7	12.0	15.8	455-1161-ND	.75	6.22	24.86	PHR-7
	8	14.0	17.8	455-1189-ND	.78	6.47	25.87	PHR-8
	9	16.0	19.8	455-1159-ND	.79	6.55	26.21	PHR-9
	10	18.0	21.8	455-1151-ND	.85	7.06	28.22	PHR-10
	11	20.0	23.8	455-1157-ND	1.51	12.60	50.40	PHR-11
	12	22.0	25.8	455-1156-ND	1.64	13.69	54.77	PHR-12
	13	24.0	27.8	455-1155-ND	1.74	14.53	58.13	PHR-13
	14	26.0	29.8	455-1154-ND	1.95	16.21	64.85	PHR-14
	15	28.0	31.8	455-1153-ND	2.02	16.80	67.20	PHR-15
	16	30.0	33.8	455-1152-ND	2.69	22.43	89.71	PHR-16
Headers								
Top Entry Thru-hole (Shrouded)								
2	3	4.0	7.9	455-1273-ND	1.15	9.54	38.17	B3B-PH-K-S
	4	6.0	9.9	455-1279-ND	1.43	11.90	47.58	B4B-PH-K-S

(Continued)

JST PH Series 2.0mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dimensions (mm)		Digi-Key Part No.	Pricing			JST Part No.
		A	B		10	100	500	
Top Entry Thru-hole (Shrouded)								
2	7	12.0	15.9	455-1276-ND	2.49	20.77	83.06	B7B-PH-K-S
	9	16.0	19.9	455-1274-ND	3.08	25.67	102.68	B9B-PH-K-S
	12	22.0	25.9	455-1264-ND	3.91	32.59	130.37	B12B-PH-K-S
	14	26.0	29.9	455-1269-ND	4.65	38.78	155.10	B14B-PH-K-S
	15	28.0	31.9	455-1268-ND	4.96	41.33	165.31	B15B-PH-K-S
	16	30.0	33.9	455-1267-ND	5.64	46.97	187.89	B16B-PH-K-S
NEW! Top Entry Thru-hole (Shrounded) — RoHS Compliant NEW!								
2	2	2.0	5.9	455-1704-ND	.81	6.79	27.15	B2B-PH-K-S(LF)(SN)
	3	4.0	7.9	455-1705-ND	1.15	9.54	38.17	B3B-PH-K-S(LF)(SN)
	4	6.0	9.9	455-1706-ND	1.43	11.90	47.58	B4B-PH-K-S(LF)(SN)
	5	8.0	11.9	455-1707-ND	1.85	15.39	61.56	B5B-PH-K-S(LF)(SN)
	6	10.0	13.9	455-1708-ND	2.11	17.61	70.43	B6B-PH-K-S(LF)(SN)
	7	12.0	15.9	455-1709-ND	2.49	20.77	83.06	B7B-PH-K-S(LF)(SN)
	8	14.0	17.9	455-1710-ND	2.73	22.71	90.85	B8B-PH-K-S(LF)(SN)
	9	16.0	19.9	455-1711-ND	3.08	25.67	102.68	B9B-PH-K-S(LF)(SN)
	10	18.0	21.9	455-1712-ND	3.36	28.02	112.09	B10B-PH-K-S(LF)(SN)
	11	20.0	23.9	455-1713-ND	3.63	30.24	120.96	B11B-PH-K-S(LF)(SN)
	12	22.0	25.9	455-1714-ND	3.91	32.59	130.37	B12B-PH-K-S(LF)(SN)
	13	24.0	27.9	455-1715-ND	4.31	35.95	143.81	B13B-PH-K-S(LF)(SN)
	14	26.0	29.9	455-1716-ND	4.65	38.78	155.10	B14B-PH-K-S(LF)(SN)
	15	28.0	31.9	455-1717-ND	4.96	41.33	165.31	B15B-PH-K-S(LF)(SN)
	16	30.0	33.9	455-1718-ND	5.64	46.97	187.89	B16B-PH-K-S(LF)(SN)
Side Entry Thru-hole (Shrouded)								
3	8	14.0	17.9	455-1241-ND	2.50	20.83	83.33	S8B-PH-K-S
	10	18.0	21.9	455-1220-ND	3.10	25.81	103.22	S10B-PH-K-S
	14	26.0	29.9	455-1214-ND	4.28	35.68	142.73	S14B-PH-K-S
	16	30.0	33.9	455-1207-ND	5.63	46.91	187.62	S16B-PH-K-S
NEW! Side Entry Thru-hole(Shrouded) — RoHS Compliant NEW!								
3	2	2.0	5.9	455-1719-ND	.81	6.72	26.88	S2B-PH-K-S(LF)(SN)
	3	4.0	7.9	455-1720-ND	1.06	8.87	35.48	S3B-PH-K-S(LF)(SN)
	4	6.0	9.9	455-1721-ND	1.31	10.89	43.55	S4B-PH-K-S(LF)(SN)
	5	8.0	11.9	455-1722-ND	1.60	13.37	53.49	S5B-PH-K-S(LF)(SN)
	6	10.0	13.9	455-1723-ND	1.92	15.99	63.97	S6B-PH-K-S(LF)(SN)
	7	12.0	15.9	455-1724-ND	2.14	17.81	71.23	S7B-PH-K-S(LF)(SN)
	8	14.0	17.9	455-1725-ND	2.50	20.83	83.33	S8B-PH-K-S(LF)(SN)
	9	16.0	19.9	455-1726-ND	2.78	23.19	92.74	S9B-PH-K-S(LF)(SN)
	10	18.0	21.9	455-1727-ND	3.10	25.81	103.22	S10B-PH-K-S(LF)(SN)
	11	20.0	23.9	455-1728-ND	3.35	27.89	111.55	S11B-PH-K-S(LF)(SN)
	12	22.0	25.9	455-1729-ND	3.84	31.99	127.95	S12B-PH-K-S(LF)(SN)
	13	24.0	27.9	455-1730-ND	4.08	34.03	136.12	S13B-PH-K-S(LF)(SN)
	14	26.0	29.9	455-1731-ND	4.28	35.68	142.73	S14B-PH-K-S(LF)(SN)
	15	28.0	31.9	455-1732-ND	4.54	37.87	151.47	S15B-PH-K-S(LF)(SN)
	16	30.0	33.9	455-1733-ND	5.63	46.91	187.62	S16B-PH-K-S(LF)(SN)

Fig.	Cir-cuits	Dim. (mm)		Digi-Key Part No.	Cut Tape Pricing			Tape & Reel* Pricing	JST Part No.
		A	B		10	100	500	1,000	
Headers									
Top Entry SMT (Shrouded)									
4	6	10.0	15.95	455-1365-1-ND	9.95	89.00	392.63	—	B6B-PH-SM3-TB
	7	12.0	17.95	455-1306-1-ND	11.02	98.59	434.94	—	B7B-PH-SM3-TB
	9	16.0	21.95	455-1311-1-ND	12.63	112.98	498.45	—	B9B-PH-SM3-TB
	10	18.0	23.95	455-1310-1-ND	15.02	134.35	592.71	—	B10B-PH-SM3-TB
	11	20.0	25.95	455-1307-1-ND	15.97	142.91	630.51	673.00	B11B-PH-SM3-TB
	12	22.0	27.95	455-1309-1-ND	16.69	149.31	658.73	703.00	B12B-PH-SM3-TB
	13	24.0	29.95	455-1308-1-ND	17.22	154.11	679.89	725.00	B13B-PH-SM3-TB
	14	26.0	31.95	455-1322-1-ND	17.76	158.91	701.06	748.00	B14B-PH-SM3-TB
	16	30.0	35.95	455-1323-1-ND	18.83	168.50	743.40	793.00	B16B-PH-SM3-TB
NEW! Top Entry SMT (Shrounded) — RoHS Compliant NEW!									
4	2	2.0	7.95	455-1734-1-ND	5.89	52.67	232.35	248.00	B2B-PH-SM4-TB(LF)(SN)
	3	4.0	9.95	455-1735-1-ND	6.73	60.21	265.61	283.00	B3B-PH-SM4-TB(LF)(SN)
	4	6.0	11.95	455-1736-1-ND	8.49	75.97	335.16	358.00	B4B-PH-SM4-TB(LF)(SN)
	5	8.0	13.95	455-1737-1-ND	9.17	82.03	361.88	386.00	B5B-PH-SM4-TB(LF)(SN)
	6	10.0	15.95	455-1738-1-ND	9.95	89.00	392.63	419.00	B6B-PH-SM4-TB(LF)SN)
	7	12.0	17.95	455-1739-1-ND	11.02	98.59	434.94	464.00	B7B-PH-SM4-TB(LF)(SN)
	8	14.0	19.95	455-1740-1-ND	11.76	105.21	464.18	495.00	B8B-PH-SM4-TB(LF)(SN)
	9	16.0	21.95	455-1741-1-ND	12.63	112.98	498.45	532.00	B9B-PH-SM4-TB(LF)(SN)
	10	18.0	23.95	455-1742-1-ND	15.02	134.35	592.71	632.00	B10B-PH-SM4-TB(LF)(SN)
	11	20.0	25.95	455-1743-1-ND	15.97	142.91	630.51	673.00	B11B-PH-SM4-TB(LF)(SN)
	12	22.0	27.95	455-1744-1-ND	16.69	149.31	658.73	703.00	B12B-PH-SM4-TB(LF)(SN)
	13	24.0	29.95	455-1745-1-ND	17.22	154.11	679.89	725.00	B13B-PH-SM4-TB(LF)(SN)
	14	26.0	31.95	455-1746-1-ND	17.76	158.91	701.06	748.00	B14B-PH-SM4-TB(LF)(SN)
	15	28.0	33.95	455-1747-1-ND	18.30	163.71	722.23	770.00	B15B-PH-SM4-TB(LF)(SN)
	16	30.0	35.95	455-1748-1-ND	18.83	168.50	743.40	793.00	B16B-PH-SM4-TB(LF)(SN)
Side Entry SMT (Shrouded)									
5	4	6.0	11.9	455-1333-1-ND	8.40	75.17	331.63	354.00	S4B-PH-SM3-TB
	5	8.0	13.9	455-1326-1-ND	8.78	78.60	346.74	—	S5B-PH-SM3-TB
	7	12.0	17.9	455-1334-1-ND	6.46	57.82	255.08	272.00	S7B-PH-SM3-TB
	9	16.0	21.9	455-1338-1-ND	13.05	116.75	515.08	549.00	S9B-PH-SM3-TB
	10	18.0	23.9	455-1339-1-ND	15.05	134.69	594.23	634.00	S10B-PH-SM3-TB
	12	22.0	27.9	455-1340-1-ND	16.50	147.60	651.17	—	S12B-PH-SM3-TB
	14	26.0	31.9	455-1342-1-ND	17.66	157.99	697.03	744.00	S14B-PH-SM3-TB
	15	28.0	33.9	455-1343-1-ND	18.08	161.76	713.66	761.00	S15B-PH-SM3-TB

* For Tape and Reel part number, change 1-ND to 2-ND.

Fig.	Cir-cuits	Dim. (mm)		Digi-Key Part No.	Cut Tape Pricing			Tape & Reel* Pricing	JST Part No.
		A	B		10	100	500	1,000	
NEW! Headers — Side Entry SMT (Shrouded)–RoHS Compliant NEW!									
5	2	2.0	7.9	455-1749-1-ND	6.19	55.41	244.44	261.00	S2B-PH-SM4-TB(LF)(SN)
	3	4.0	9.9	455-1750-1-ND	7.28	65.12	287.29	306.00	S3B-PH-SM4-TB(LF)(SN)
	4	6.0	11.9	455-1751-1-ND	8.40	75.17	331.63	354.00	S4B-PH-SM4-TB(LF)(SN)
	5	8.0	13.9	455-1752-1-ND	8.78	78.60	346.74	370.00	S5B-PH-SM4-TB(LF)(SN)
	6	10.0	15.9	455-1753-1-ND	10.50	93.90	414.28	442.00	S6B-PH-SM4-TB(LF)(SN)
	7	12.0	17.9	455-1754-1-ND	10.62	95.05	419.33	447.00	S7B-PH-SM4-TB(LF)(SN)
	8	14.0	19.9	455-1755-1-ND	11.39	101.90	449.57	480.00	S8B-PH-SM4-TB(LF)(SN)
	9	16.0	21.9	455-1756-1-ND	13.05	116.75	515.08	549.00	S9B-PH-SM4-TB(LF)(SN)
	10	18.0	23.9	455-1757-1-ND	15.05	134.69	594.23	634.00	S10B-PH-SM4-TB(LF)(SN)
	12	22.0	27.9	455-1758-1-ND	16.50	147.60	651.17	695.00	S12B-PH-SM4-TB(LF)(SN)
	13	24.0	29.9	455-1759-1-ND	17.24	154.22	680.40	726.00	S13B-PH-SM4-TB(LF)(SN)
	14	26.0	31.9	455-1760-1-ND	17.66	157.99	697.03	744.00	S14B-PH-SM4-TB(LF)(SN)
	15	28.0	33.9	455-1761-1-ND	18.08	161.76	713.66	761.00	S15B-PH-SM4-TB(LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		JST Part No.
		1	100	500	Size	Pricing	
Contacts-Tin Plated							
30 ~ 24 AWG	455-1127-1-ND	—	3.43	15.11	8,000	16.00/M	SPH-002T-P0.5S
32 ~ 28 AWG	455-1318-1-ND	—	3.29	14.49	10,000	15.00/M	SPH-004T-P0.5S
Crimp Tools							
30 ~ 24 AWG	455-1128-ND	367.01	—	—	—	—	WC-240
32 ~ 28 AWG	455-1236-ND	792.08	—	—	—	—	YRS-243

* For Tape and Reel part number, change 1-ND to 2-ND.

PHD Series 2.0mm Connectors

Features: • This compact design meets the demand for high-density connection • The box contact supplies stable contact performance

Specifications: • Current Rating: 3A AC/DC • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 28 ~ 22 AWG

Fig. 1

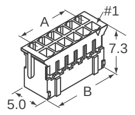

Fig. 2

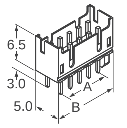

Fig. 3

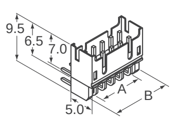

Fig.	Cir-cuits	Dimensions (mm)		Digi-Key Part No.	Pricing			JST Part No.
		A	B		10	100	500	
Housing — Color Natural White								
1	10	8.0	11.9	455-1158-ND	2.14	17.87	71.46	PHDR-10VS
	12	10.0	13.9	455-1204-ND	2.18	18.20	72.80	PHDR-12VS
	14	12.0	15.9	455-1172-ND	2.21	18.43	73.70	PHDR-14VS
	16	14.0	17.9	455-1173-ND	2.37	19.71	78.85	PHDR-16VS
	18	16.0	19.9	455-1905-ND‡ ***NEW!***	2.39	19.94	79.74	PHDR-18VS
	20	18.0	21.9	455-1174-ND	2.42	20.16	80.64	PHDR-20VS
	22	20.0	23.9	455-1175-ND	4.19	34.95	139.78	PHDR-22VS
	24	22.0	25.9	455-1177-ND	4.23	35.23	140.90	PHDR-24VS
	26	24.0	27.9	455-1178-ND	4.27	35.62	142.46	PHDR-26VS
	28	26.0	29.9	455-1171-ND	4.31	35.90	143.58	PHDR-28VS
	30	28.0	31.9	455-1180-ND	4.36	36.35	145.38	PHDR-30VS
	32	30.0	33.9	455-1179-ND	4.40	36.68	146.72	PHDR-32VS
	34	32.0	35.9	455-1182-ND	4.44	37.02	148.06	PHDR-34VS
Headers — Color Natural Ivory								
Top Entry (Shrouded)								
2	10	8.0	11.9	455-1331-ND	3.02	25.18	100.71	B10B-PHDSS
	14	12.0	15.9	455-1329-ND	4.18	34.85	139.38	B14B-PHDSS
	16	14.0	17.9	455-1328-ND	4.30	35.83	143.31	B16B-PHDSS
	24	22.0	25.9	455-1345-ND	7.13	59.40	237.61	B24B-PHDSS
	28	26.0	29.9	455-1364-ND	7.76	64.68	258.71	B28B-PHDSS
	30	28.0	31.9	455-1363-ND	8.11	67.62	270.49	B30B-PHDSS
NEW! Top Entry (Shrouded)–RoHS Compliant NEW!								
2	10	8.0	11.9	455-1762-ND	3.02	25.18	100.71	B10B-PHDSS(LF)(SN)
	12	10.0	13.9	455-1763-ND	3.53	29.42	117.67	B12B-PHDSS(LF)(SN)
	14	12.0	15.9	455-1764-ND	4.18	34.85	139.38	B14B-PHDSS(LF)(SN)
	16	14.0	17.9	455-1765-ND	4.51	37.62	150.48	B16B-PHDSS(LF)(SN)
	18	16.0	19.9	455-1766-ND	4.75	39.55	158.20	B18B-PHDSS(LF)(SN)
	20	18.0	21.9	455-1767-ND	5.16	42.96	171.85	B20B-PHDSS(LF)(SN)
	22	20.0	23.9	455-1768-ND	6.57	54.75	219.00	B22B-PHDSS(LF)(SN)
	24	22.0	25.9	455-1769-ND	7.13	59.40	237.61	B24B-PHDSS(LF)(SN)
	26	24.0	27.9	455-1770-ND	7.43	61.89	247.54	B26B-PHDSS(LF)(SN)
	28	26.0	29.9	455-1771-ND	7.76	64.68	258.71	B28B-PHDSS(LF)(SN)
	30	28.0	31.9	455-1772-ND	8.11	67.62	270.49	B30B-PHDSS(LF)(SN)
	32	30.0	33.9	455-1773-ND	8.45	70.42	281.66	B32B-PHDSS(LF)(SN)
	34	32.0	35.9	455-1774-ND	8.72	72.70	290.80	B34B-PHDSS(LF)(SN)
Side Entry (Shrouded)								
3	12	10.0	13.9	455-1359-ND	3.86	32.16	128.63	S12B-PHDSS
	18	16.0	19.9	455-1356-ND	5.23	43.58	174.33	S18B-PHDSS
	24	22.0	25.9	455-1353-ND	7.77	64.78	259.12	S24B-PHDSS
	28	26.0	29.9	455-1351-ND	8.40	70.00	280.01	S28B-PHDSS
	30	28.0	31.9	455-1350-ND	8.90	74.19	296.76	S30B-PHDSS
	32	30.0	33.9	455-1349-ND	9.28	77.34	309.37	S32B-PHDSS
	34	32.0	35.9	455-1348-ND	9.63	80.29	321.15	S34B-PHDSS

‡ RoHS Compliant

(Continued)

JST PHD Series 2.0mm Connectors *(Cont.)*

Fig.	Cir- cuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
NEW! Side Entry (Shrouded) — RoHS Compliant NEW!								
3	10	8.0	11.9	455-1775-ND	3.29	27.45	109.81	S10B-PHDSS(LF)(SN)
	12	10.0	13.9	455-1776-ND	3.86	32.16	128.63	S12B-PHDSS(LF)(SN)
	14	12.0	15.9	455-1777-ND	4.57	38.05	152.20	S14B-PHDSS(LF)(SN)
	16	14.0	17.9	455-1778-ND	4.72	39.34	157.37	S16B-PHDSS(LF)(SN)
	18	16.0	19.9	455-1779-ND	5.23	43.58	174.33	S18B-PHDSS(LF)(SN)
	20	18.0	21.9	455-1780-ND	5.70	47.46	189.84	S20B-PHDSS(LF)(SN)
	22	20.0	23.9	455-1781-ND	7.16	59.66	238.65	S22B-PHDSS(LF)(SN)
	24	22.0	25.9	455-1782-ND	7.77	64.78	259.12	S24B-PHDSS(LF)(SN)
	26	24.0	27.9	455-1783-ND	8.14	67.83	271.32	S26B-PHDSS(LF)(SN)
	28	26.0	29.9	455-1784-ND	8.40	70.00	280.01	S28B-PHDSS(LF)(SN)
	30	28.0	31.9	455-1785-ND	8.90	74.19	296.76	S30B-PHDSS(LF)(SN)
	32	30.0	33.9	455-1786-ND	9.28	77.34	309.37	S32B-PHDSS(LF)(SN)
	34	32.0	35.9	455-1787-ND	9.63	80.29	321.15	S34B-PHDSS(LF)(SN)

Description	Digi-Key Part No.	CT Pricing 100	500	Digi-Key Part No.	T & R Pricing 8,000	JST Part No.
Contacts-Tin Plated						
26 ~ 22 AWG	455-1325-1-ND	3.57	15.75	455-1325-2-ND	17.00/M	SPHD-001T-P0.5
28 ~ 24 AWG	455-1313-1-ND	3.57	15.75	455-1313-2-ND	17.00/M	SPHD-002T-P0.5
Crimp Tools						
26 ~ 22 AWG Contacts	455-1238-ND	367.01/1		—	—	WC-610
28 ~ 24 AWG Contacts	455-1237-ND	792.08/1		—	—	YRS-620

EH Series 2.5mm Connectors

Features: • Compact and Slim: This connector is designed to be compact and unusually thin. It measures only 8.1mm (.319") high after mounting and is just 3.8mm (.150") wide. • Highly Reliable Contact: The contact has long dimples near the center that ensure continuity of low voltage and low current circuits at all times, even under conditions of vibration and abusive prying. • Polarizing Guides: The header and housing have guides to prevent improper mating. • Whisker Prevention: The contact material is treated with a reflow process, and the square post is copper-undercoated and tin/lead-plated for whisker prevention. • Easy and Effective Crimping: Although the contact is compact, it has a long wire strip length, 2.6 ± 0.4mm (.102" ± .016"). This long length is very useful for automatic crimping and when crimping shielded wires.

Specifications: • Current Rating: 3A AC/DC (22 AWG). • Voltage Rating: 250V AC/DC. • Temperature Range: -25°C ~ 85°C. • Applicable Wire: 32 ~ 22 AWG.

Material and Finish: • Contact: Phosphor bronze, tin-plated. • Housing: Nylon 66, UL94V-0, natural (white). • Posts for Headers: Brass, copper-undercoated, tin/lead plated. • Wafer: Nylon 66, UL94V-0, natural (white).

Applicable PC Board Thickness: • 0.8 ~ 1.6mm (.031" ~ .063").

Fig. 1

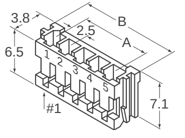

Fig. 2

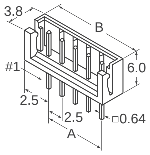

Fig. 3

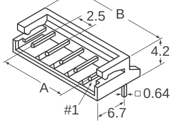

Fig.	Cir- cuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Disconnectable Crimp Style Female Receptacle Housing								
1	2	2.5	7.0	455-1000-ND	.38	3.16	12.63	EHR-2
	3	5.0	9.5	455-1001-ND	.42	3.50	13.98	EHR-3
	4	7.5	12.0	455-1002-ND	.43	3.56	14.25	EHR-4
	5	10.0	14.5	455-1003-ND	.48	3.97	15.86	EHR-5
	6	12.5	17.0	455-1004-ND	.52	4.30	17.20	EHR-6
	7	15.0	19.5	455-1005-ND	.60	4.97	19.89	EHR-7
	8	17.5	22.0	455-1006-ND	.62	5.18	20.70	EHR-8
	9	20.0	24.5	455-1007-ND	.89	7.39	29.57	EHR-9
	10	22.5	27.0	455-1008-ND	.94	7.80	31.18	EHR-10
	11	25.0	29.5	455-1009-ND	1.16	9.68	38.71	EHR-11
	12	27.5	32.0	455-1010-ND	1.40	11.69	46.77	EHR-12
	13	30.0	34.5	455-1011-ND	1.48	12.37	49.46	EHR-13
	14	32.5	37.0	455-1012-ND	1.89	15.73	62.90	EHR-14
	15	35.0	39.5	455-1013-ND	1.94	16.20	64.78	EHR-15
Top Entry Shrouded Board-Mount Headers (Use with EH and HR Series Female Housing)								
2	3	5.0	10.0	455-1015-ND•	.89	7.45	29.79	B3B-EH-A
	5	10.0	15.0	455-1017-ND•	1.40	11.71	46.82	B5B-EH-A
	6	12.5	17.5	455-1018-ND•	1.69	14.06	56.22	B6B-EH-A
	7	15.0	20.0	455-1019-ND•	1.92	15.96	63.84	B7B-EH-A
	8	17.5	22.5	455-1020-ND•	2.17	18.09	72.35	B8B-EH-A
	10	22.5	27.5	455-1022-ND•	2.81	23.41	93.63	B10B-EH-A
	11	25.0	30.0	455-1023-ND•	3.10	25.82	103.26	B11B-EH-A
	12	27.5	32.5	455-1024-ND•	3.23	26.88	107.52	B12B-EH-A
	13	30.0	35.0	455-1025-ND•	3.82	31.87	127.46	B13B-EH-A
	14	32.5	37.5	455-1026-ND•	4.14	34.50	137.98	B14B-EH-A
	15	35.0	40.0	455-1027-ND•	4.37	36.40	145.60	B15B-EH-A

• Not TUV approved

Fig.	Cir- cuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
NEW! Top Entry Shrouded Board-Mount Headers (Use with EH and HR Series Female Housing) — RoHS Compliant NEW!								
2	2	2.5	7.5	455-1611-ND•	.66	5.49	21.95	B2B-EH-A(LF)(SN)
	3	5.0	10.0	455-1612-ND•	.89	7.45	29.79	B3B-EH-A(LF)(SN)
	4	7.5	12.5	455-1613-ND•	1.18	9.80	39.20	B4B-EH-A(LF)(SN)
	5	10.0	15.0	455-1614-ND•	1.40	11.71	46.82	B5B-EH-A(LF)(SN)
	6	12.5	17.5	455-1615-ND•	1.69	14.06	56.22	B6B-EH-A(LF)(SN)
	7	15.0	20.0	455-1616-ND•	1.92	15.96	63.84	B7B-EH-A(LF)(SN)
	8	17.5	22.5	455-1617-ND•	2.17	18.09	72.35	B8B-EH-A(LF)(SN)
	9	20.0	25.0	455-1618-ND•	2.41	20.11	80.42	B9B-EH-A(LF)(SN)
	10	22.5	27.5	455-1619-ND•	2.81	23.41	93.63	B10B-EH-A(LF)(SN)
	11	25.0	30.0	455-1620-ND•	3.10	25.82	103.26	B11B-EH-A(LF)(SN)
	12	27.5	32.5	455-1621-ND•	3.23	26.88	107.52	B12B-EH-A(LF)(SN)
	13	30.0	35.0	455-1622-ND•	3.82	31.87	127.46	B13B-EH-A(LF)(SN)
	14	32.5	37.5	455-1623-ND•	4.14	34.50	137.98	B14B-EH-A(LF)(SN)
	15	35.0	40.0	455-1624-ND•	4.37	36.40	145.60	B15B-EH-A(LF)(SN)
Side Entry Shrouded Board-Mount Headers (Use with EH and HR Series Female Housing)								
3	3	5.0	10.0	455-1029-ND	.94	7.84	31.36	S3B-EH
	5	10.0	15.0	455-1031-ND	1.46	12.15	48.61	S5B-EH
	7	15.0	20.0	455-1033-ND	2.15	17.92	71.68	S7B-EH
	8	17.5	22.5	455-1034-ND	2.52	21.00	84.00	S8B-EH
	9	20.0	25.0	455-1035-ND	2.69	22.40	89.60	S9B-EH
	13	30.0	35.0	455-1039-ND	4.79	39.93	159.71	S13B-EH
	14	32.5	37.5	455-1040-ND	5.09	42.45	169.79	S14B-EH
	15	35.0	40.0	455-1041-ND	5.48	45.70	182.78	S15B-EH
NEW! Side Entry Shrouded Board-Mount Headers (Use with EH and HR Series Female Housing) — RoHS Compliant NEW!								
3	2	2.5	7.5	455-1625-ND	.79	6.55	26.21	S2B-EH(LF)(SN)
	3	5.0	10.0	455-1626-ND	.94	7.84	31.36	S3B-EH(LF)(SN)
	4	7.5	12.5	455-1627-ND	1.12	9.30	37.18	S4B-EH(LF)(SN)
	5	10.0	15.0	455-1628-ND	1.46	12.15	48.61	S5B-EH(LF)(SN)
	6	12.5	17.5	455-1629-ND	1.81	15.12	60.48	S6B-EH(LF)(SN)
	7	15.0	20.0	455-1630-ND	2.15	17.92	71.68	S7B-EH(LF)(SN)
	8	17.5	22.5	455-1631-ND	2.52	21.00	84.00	S8B-EH(LF)(SN)
	9	20.0	25.0	455-1632-ND	2.69	22.40	89.60	S9B-EH(LF)(SN)
	10	22.5	27.5	455-1633-ND	3.31	27.61	110.43	S10B-EH(LF)(SN)
	11	25.0	30.0	455-1634-ND	3.67	30.58	122.30	S11B-EH(LF)(SN)
	12	27.5	32.5	455-1635-ND	3.88	32.37	129.47	S12B-EH(LF)(SN)
	13	30.0	35.0	455-1636-ND	4.79	39.93	159.71	S13B-EH(LF)(SN)
	14	32.5	37.5	455-1637-ND	5.09	42.45	169.79	S14B-EH(LF)(SN)
	15	35.0	40.0	455-1638-ND	5.48	45.70	182.78	S15B-EH(LF)(SN)
Crimp Contact 30 ~ 22 AWG				455-1042-1-ND	—	3.14	13.86	SEH-001T-P0.6
Crimp Contact 30 ~ 22 AWG				455-1042-2-ND	135.00/9,000			SEH-001T-P0.6
Crimp Tool for 30 ~ 22 AWG Contacts				455-1043-ND	367.01/1			WC-260

• Not TUV approved

DB Series 2.5mm Board-In IDC Connectors

Specifications:
• Current Rating: 2A AC/DC (24 AWG) • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: UL1007 (Contact JST for details regarding other UL wires.) 28, 26, 24 AWG. Conductor/7 strands, tin-coated. Insulation O.D/1.0 to 1.4mm (.039" to .055").

Material and Finish:
• Contact: Phosphor bronze, copper-undercoated, tin/lead-plated • Housing: Nylon 66, UL94V-0

Applicable PC Board Thickness: • 1.6mm (.063")

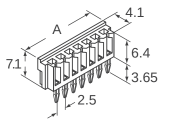

Circuits	Color	AWG	Dim. A (mm)	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
2	Green	28	7.5	455-1070-ND	.17	1.31	10.92	02DB-8M
5			13.0	455-1073-ND	.38	2.86	23.80	05DB-8M
6			17.5	455-1074-ND	.47	3.49	29.07	06DB-8M
10			27.5	455-1078-ND	.77	5.78	48.16	10DB-8M
2	White	26	7.5	455-1082-ND	.16	1.23	10.25	02DB-6S
4			12.5	455-1084-ND	.31	2.33	19.43	04DB-6S
6			17.5	455-1086-ND	.45	3.39	28.28	06DB-6S
7			20.0	455-1087-ND	.52	3.92	32.65	07DB-6S
9			25.0	455-1089-ND	.67	5.01	41.78	09DB-6S
10			27.5	455-1090-ND	.74	5.58	46.48	10DB-6S
11			30.0	455-1091-ND	.84	6.32	52.64	11DB-6S
12			32.5	455-1092-ND	.90	6.73	56.06	12DB-6S
13			35.0	455-1093-ND	1.22	9.13	76.11	13DB-6S
2	Black	24	7.5	455-1094-ND	.17	1.31	10.92	02DB-4K
4			12.5	455-1096-ND	.33	2.45	20.39	04DB-4K
5			13.0	455-1097-ND	.38	2.86	23.80	05DB-4K
6			17.5	455-1098-ND	.45	3.37	28.11	06DB-4K
7			20.0	455-1099-ND	.53	3.96	33.04	07DB-4K
8			22.5	455-1100-ND	.61	4.57	38.08	08DB-4K
9			25.0	455-1101-ND	.68	5.12	42.67	09DB-4K
10			27.5	455-1102-ND	.77	5.78	48.16	10DB-4K
11			30.0	455-1103-ND	.86	6.48	53.99	11DB-4K
12			32.5	455-1104-ND	.92	6.89	57.40	12DB-4K
13			35.0	455-1105-ND	1.23	9.20	76.67	13DB-4K

JST

HR Series

2.5mm IDC Receptacles

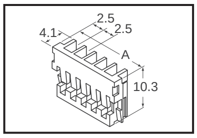

Specifications:
- Current Rating: 2A AC/DC (24 AWG) • Voltage Rating: 250V AC/DC
- Temperature Range: -25°C ~ 85°C • Applicable Wire: UL1007 (Contact JST for details regarding other UL wires.) 26, 24 AWG. Conductor/7 strands, tin-coated. Insulation O.D/1.0 ~ 1.5mm (.039” ~ .059”.) **Material and Finish:**
- Contact: Phosphor Bronze, Tin-Plated • Housing: Nylon 66, UL94V-0

Applicable PC Board Thickness:
- 0.8 ~ 1.6mm (.031” ~ .063”)

Circuits	Color	AWG	Dim. A (mm)	Digi-Key Part No.	Pricing 1	10	100	JST Part No.
2	White	26	7.5	455-1044-ND	.20	1.47	12.27	02HR-6S
5			15.0	455-1047-ND	.39	2.90	24.19	05HR-6S
6			17.5	455-1048-ND	.43	3.25	27.05	06HR-6S
8			22.5	455-1050-ND	.56	4.18	34.83	08HR-6S
9			25.0	455-1051-ND	.63	4.70	39.20	09HR-6S
10			27.5	455-1052-ND	.70	5.27	43.91	10HR-6S
13			35.0	455-1055-ND	.87	6.49	54.10	13HR-6S
15			40.0	455-1056-ND†	.99	7.43	61.94	15HR-6S
3	Black	24	10.0	455-1058-ND	.25	1.90	15.79	03HR-4K
5			15.0	455-1060-ND	.40	3.00	25.03	05HR-4K
6			17.5	455-1061-ND	.45	3.38	28.17	06HR-4K
7			20.0	455-1062-ND	.51	3.85	32.09	07HR-4K
8			22.5	455-1063-ND	.58	4.35	36.29	08HR-4K
9			25.0	455-1064-ND	.65	4.89	40.77	09HR-4K
10			27.5	455-1065-ND	.73	5.48	45.70	10HR-4K
11			30.0	455-1066-ND	.79	5.93	49.39	11HR-4K
12			32.5	455-1067-ND	.84	6.27	52.25	12HR-4K
13			35.0	455-1068-ND	.90	6.77	56.39	13HR-4K

† Not UL recognized nor CSA certified

VH Series

3.96mm Connectors

Features: • Reliable VH connector can be used in a wide variety of applications • Mounting height of 16.5mm • Lock mechanism which prevents the connector from coming loose and prevents misinsertion **Specifications:** • Current Rating: 10A AC/DC • Voltage Rating: 250V AC/DC • Temperature Range: -25°C ~ 85°C • Applicable Wire: 22 ~ 16 AWG • Color: Natural (White)

Fig. 1

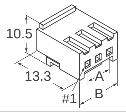

Fig. 2

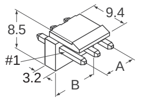

Fig. 3

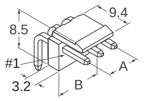

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Housing								
1	2	3.96	7.86	455-1183-ND	.59	4.93	19.71	VHR-2N
	3	7.92	11.82	455-1184-ND	.69	5.71	22.85	VHR-3N
	4	11.88	15.78	455-1185-ND	.87	7.28	29.12	VHR-4N
	5	15.84	19.74	455-1186-ND	1.16	9.63	38.53	VHR-5N
	6	19.80	23.70	455-1187-ND	1.24	10.36	41.44	VHR-6N
	7	23.76	27.66	455-1181-ND	1.59	13.27	53.09	VHR-7N
	8	27.72	31.62	455-1168-ND	1.65	13.72	54.88	VHR-8N
	9	31.68	35.58	455-1169-ND	1.92	15.96	63.84	VHR-9N
	10	35.64	39.54	455-1167-ND	2.19	18.26	73.02	VHR-10N
Headers								
Top Entry (locking)								
2	6	19.80	23.70	455-1260-ND	2.57	21.41	85.63	B6P-VH
	7	23.76	27.66	455-1244-ND	2.97	24.77	99.07	B7P-VH
	8	27.72	31.62	455-1206-ND	3.55	29.57	118.27	B8P-VH
	9	31.68	35.58	455-1257-ND	3.93	32.79	131.14	B9P-VH
NEW! Top Entry (locking) — RoHS Compliant NEW!								
2	2	3.96	7.86	455-1639-ND	1.13	9.41	37.63	B2P-VH(LF)(SN)
	3	7.92	11.82	455-1640-ND	1.43	11.91	47.62	B3P-VH(LF)(SN)
	4	11.88	15.78	455-1641-ND	1.83	15.27	61.06	B4P-VH(LF)(SN)
	5	15.84	19.74	455-1642-ND	2.25	18.77	75.07	B5P-VH(LF)(SN)
	6	19.80	23.70	455-1643-ND	2.57	21.41	85.63	B6P-VH(LF)(SN)
	7	23.76	27.66	455-1644-ND	2.97	24.77	99.07	B7P-VH(LF)(SN)
	8	27.72	31.62	455-1645-ND	3.55	29.57	118.27	B8P-VH(LF)(SN)
	9	31.68	35.58	455-1646-ND	3.93	32.79	131.14	B9P-VH(LF)(SN)
	10	35.64	39.54	455-1647-ND	4.29	35.76	143.04	B10P-VH(LF)(SN)

Fig.	Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Pricing 10	100	500	JST Part No.
Side Entry (locking)								
3	3	7.92	11.82	455-1270-ND	1.67	13.92	55.68	B3PS-VH
	6	19.80	23.70	455-1232-ND	3.23	26.93	107.71	B6PS-VH
	7	23.76	27.66	455-1231-ND	3.64	30.34	121.34	B7PS-VH
	9	31.68	35.58	455-1229-ND	4.77	39.75	158.98	B9PS-VH
	10	35.64	39.54	455-1228-ND	5.25	43.73	174.91	B10PS-VH
NEW! Side Entry (locking) — RoHS Compliant NEW!								
3	2	3.96	7.86	455-1648-ND	1.33	11.09	44.35	B2PS-VH(LF)(SN)
	3	7.92	11.82	455-1649-ND	1.67	13.92	55.68	B3PS-VH(LF)(SN)
	4	11.88	15.78	455-1650-ND	2.22	18.53	74.11	B4PS-VH(LF)(SN)
	5	15.84	19.74	455-1651-ND	2.74	22.80	91.20	B5PS-VH(LF)(SN)
	6	19.80	23.70	455-1652-ND	3.23	26.93	107.71	B6PS-VH(LF)(SN)
	7	23.76	27.66	455-1653-ND	3.64	30.34	121.34	B7PS-VH(LF)(SN)
	8	27.72	31.62	455-1654-ND	4.34	36.15	144.58	B8PS-VH(LF)(SN)
	9	31.68	35.58	455-1655-ND	4.77	39.75	158.98	B9PS-VH(LF)(SN)
	10	35.64	39.54	455-1656-ND	5.25	43.73	174.91	B10PS-VH(LF)(SN)

Description	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape & Reel* Size	Pricing	JST Part No.
Contacts-Tin Plated							
20 ~ 16 AWG	455-1319-1-ND	.84	7.50	33.09	3,500	35.00/M	SVH-41T-P1.1
22 ~ 18 AWG	455-1133-1-ND	—	7.62	33.60	4,500	36.00/M	SVH-21T-P1.1
Crimp Tools							
20 ~ 16 AWG Contacts	455-1227-ND		366.33/1		—	—	YC-630
22 ~ 18 AWG Contacts	455-1134-ND		367.01/1		—	—	WC-160

* For Tape and Reel part number, change 1-ND to 2-ND.

SIN Series

Board-In Crimp Terminals

Features: • Compliant board retention feature insures secure mounting before and during soldering • Wires can be machine secured to terminals • Strain relief minimizes wires. **Specifications:** • Current Rating: Depends on applicable wires • Temperature Range: -25°C ~ 85°C • Applicable Wire: 30 ~ 12 AWG • Applicable PC Board Thickness: 1.6mm (.063”) **Material:** • Tin-Plated

Fig. 1

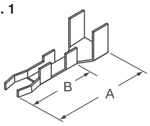

Fig. 2

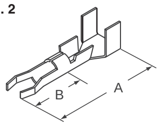

Fig. 3

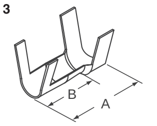

Fig.	Wire AWG#	Dim. (mm) A	B	PCB (mm) Thickness	Hole Dia.	Digi-Key Part No.	Pricing 10	100	500	Tape & Reel* Size	Pricing	JST Part No.
1	28 ~ 26	5.8	3.1	1.6	1.0	455-1452-1-ND	.29	2.64	11.63	9,000	12.00/M	SIN-002T-1.0
2	22 ~ 18	12.6	3.6	1.6	1.80	455-1453-1-ND	.61	5.45	24.04	3,000	26.00/M	SIN-21T-1.8
3	22 ~ 18	7.6	4.1	1.6	1.80	455-1454-1-ND	.45	4.04	17.83	4,500	19.00/M	SIN-21T-1.8S
	18, 16	8.3	4.3	1.6	2.4	455-1455-1-ND	.54	4.83	21.32	3,000	23.00/M	SIN-41T-2.4S
	14	8.3	4.3	1.6	2.5	455-1456-1-ND	.54	4.83	21.32	3,000	23.00/M	SIN-61T-2.6S
	12	9.2	4.5	1.6	3.55	455-1457-1-ND	.70	6.22	27.45	2,000	29.00/M	SIN-81T-3.6S

* For Tape and Reel part number, change 1-ND to 2-ND.

Miscellaneous Crimp Contacts and Crimp Tools

Contact Material	Contact Finish	AWG	Digi-Key Part No.	Cut Tape Pricing 1	100	500	Tape & Reel* Pricing	JST Part No.
VH/NV Series Crimp Contacts								
Brass	Tin-Plated	22 ~ 18	455-1132-1-ND	—	6.86	30.24	144.00/4,500	SVH-21T-1.1
XH Series Crimp Contacts								
Phosphor Bronze	Tin-Plated	28 ~ 22	455-1135-1-ND	—	5.00	22.05	192.00/8,000	SXH-001T-P0.6
Crimp Tool 28 ~ 22 AWG XH Contacts..................			455-1136-ND	367.01	—	—	—	WC-110
SAN Series Crimp Contacts								
Brass	Tin-Plated	24 ~ 30	455-1142-1-ND	—	3.14	13.86	210.00/14,000	SAN-002T-0.8K
Crimp Tool 30 ~ 24 AWG SAN Contacts			455-1143-ND	821.79	—	—	—	YRS-220
Crimp Die Sets								
Head Adapter KR Series..........			455-1374-ND	291.66	—	—	—	IDH-KR12
Head Adapter ZR Series..........			455-1375-ND	668.72	—	—	—	IDHZR(F)20

* For Tape and Reel part number, change 1-ND to 2-ND.

NEW! BergStak™ 0.03” (0.8 mm) Mezzanine Connector System

Fig. 1

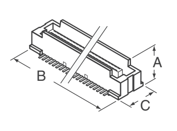

Fig. 2

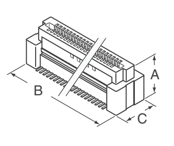

Features: • Extremely versatile high density mezzanine connector system. Surface mount attachment. • Blade-on-beam contacts allow “peeling” and prevent “stubbing”. • Face polarization prevents mis-mating. • PCB polarization prevents PCB assembly errors.
Plug: • Housing: G.F.LCP UL94V-0 • Terminal: Brass **Receptacle:** • Housing: G.F.LCP UL94V-0 • Terminal: Beryllium Copper • Mating Cycles: 100 • Voltage Rating: 100VAC • Current Rating: 6.5A • Temperature Range: -40°C ~ 85°C

Mate Height Code (mm)			
	Receptacle		
Plug	1	2	3
1	5	9	13
2	6	10	14
3	7	11	15
4	8	12	16

No. of Positions	Dimensions - Inch (mm) A	B	C	Mate Height Code	Polarization	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	FCI Part No.
Fig. 1 — Plugs													
40	0.185 (4.70)	0.858 (21.80)	0.236 (6.00)	1	Yes	609-1667-1-ND	3.49	2.16	1.90	609-1667-2-ND	900	1498.01	61083-041402LF
	0.185 (4.70)	0.858 (21.80)	0.236 (6.00)	1	No	609-1668-1-ND	3.17	1.96	1.73	609-1668-2-ND	900	1355.09	61083-041422LF
	0.224 (5.70)	0.858 (21.80)	0.236 (6.00)	2	Yes	609-1669-1-ND	3.57	2.20	1.94	609-1669-2-ND	800	1355.12	61083-042402LF
	0.224 (5.70)	0.858 (21.80)	0.236 (6.00)	2	No	609-1670-1-ND	3.65	2.27	2.06	609-1670-2-ND	800	1408.62	61083-042422LF
	0.264 (6.70)	0.858 (21.80)	0.236 (6.00)	3	Yes	609-1671-1-ND	3.46	2.14	1.88	609-1671-2-ND	700	1148.92	61083-043402LF
	0.264 (6.70)	0.858 (21.80)	0.236 (6.00)	3	No	609-1672-1-ND	3.44	2.13	1.87	609-1672-2-ND	700	1450.37	61083-043422LF
	0.303 (7.70)	0.858 (21.80)	0.236 (6.00)	4	Yes	609-1673-1-ND	3.65	2.27	2.05	609-1673-2-ND	600	1323.54	61083-044402LF
	0.303 (7.70)	0.858 (21.80)	0.236 (6.00)	4	No	609-1674-1-ND	3.80	2.36	2.14	609-1674-2-ND	600	1250.87	61083-044422LF
60	0.185 (4.70)	1.173 (29.80)	0.236 (6.00)	1	Yes	609-1675-1-ND	4.06	2.52	2.28	609-1675-2-ND	900	1761.98	61083-061402LF
	0.185 (4.70)	1.173 (29.80)	0.236 (6.00)	1	No	609-1676-1-ND	4.18	2.60	2.36	609-1676-2-ND	900	1817.30	61083-061422LF
	0.224 (5.70)	1.173 (29.80)	0.236 (6.00)	2	Yes	609-1677-1-ND	3.81	2.37	2.14	609-1677-2-ND	800	1470.00	61083-062402LF
	0.224 (5.70)	1.173 (29.80)	0.236 (6.00)	2	No	609-1678-1-ND	4.25	2.64	2.39	609-1678-2-ND	800	1642.03	61083-062422LF
	0.264 (6.70)	1.173 (29.80)	0.236 (6.00)	3	Yes	609-1679-1-ND	4.21	2.62	2.37	609-1679-2-ND	700	2152.28	61083-063402LF
	0.264 (6.70)	1.173 (29.80)	0.236 (6.00)	3	No	609-1680-1-ND	3.70	2.30	2.09	609-1680-2-ND	700	1273.61	61083-063422LF
	0.303 (7.70)	1.173 (29.80)	0.236 (6.00)	4	Yes	609-1681-1-ND	4.30	2.67	2.42	609-1681-2-ND	600	1267.02	61083-064402LF
	0.303 (7.70)	1.173 (29.80)	0.236 (6.00)	4	No	609-1682-1-ND	4.37	2.81	2.50	609-1682-2-ND	600	1334.74	61083-064422LF
80	0.185 (4.70)	1.488 (37.80)	0.236 (6.00)	1	No	609-1683-1-ND	4.47	2.88	2.56	609-1683-2-ND	900	2010.46	61083-081402LF
	0.185 (4.70)	1.488 (37.80)	0.236 (6.00)	1	No	609-1684-1-ND	4.67	2.93	2.68	609-1684-2-ND	900	2103.57	61083-081422LF
	0.224 (5.70)	1.488 (37.80)	0.236 (6.00)	2	Yes	609-1685-1-ND	4.26	2.74	2.44	609-1685-2-ND	800	1702.85	61083-082402LF
	0.224 (5.70)	1.488 (37.80)	0.236 (6.00)	2	No	609-1686-1-ND	4.21	2.71	2.41	609-1686-2-ND	800	1683.70	61083-082422LF
	0.264 (6.70)	1.488 (37.80)	0.236 (6.00)	3	Yes	609-1687-1-ND	4.21	2.62	2.37	609-1687-2-ND	700	1423.74	61083-083402LF
	0.264 (6.70)	1.488 (37.80)	0.236 (6.00)	3	No	609-1688-1-ND	4.30	2.77	2.46	609-1688-2-ND	700	1505.18	61083-083422LF
	0.303 (7.70)	1.488 (37.80)	0.236 (6.00)	4	Yes	609-1689-1-ND	4.28	2.66	2.41	609-1689-2-ND	400	856.20	61083-084402LF
	0.303 (7.70)	1.488 (37.80)	0.236 (6.00)	4	No	609-1690-1-ND	4.23	2.72	2.42	609-1690-2-ND	400	876.15	61083-084422LF
100	0.185 (4.70)	1.803 (45.80)	0.236 (6.00)	1	Yes	609-1691-1-ND	4.98	3.17	2.90	609-1691-2-ND	650	1646.65	61083-101402LF
	0.185 (4.70)	1.803 (45.80)	0.236 (6.00)	1	No	609-1692-1-ND	4.60	2.88	2.63	609-1692-2-ND	650	1493.77	61083-101422LF
	0.224 (5.70)	1.803 (45.80)	0.236 (6.00)	2	Yes	609-1693-1-ND	5.12	3.26	2.98	609-1693-2-ND	550	1433.97	61083-102402LF
	0.224 (5.70)	1.803 (45.80)	0.236 (6.00)	2	No	609-1694-1-ND	4.98	3.17	2.90	609-1694-2-ND	550	1419.68	61083-102422LF
	0.264 (6.70)	1.803 (45.80)	0.236 (6.00)	3	Yes	609-1695-1-ND	5.17	3.36	3.07	609-1695-2-ND	450	1228.12	61083-103402LF
	0.264 (6.70)	1.803 (45.80)	0.236 (6.00)	3	No	609-1696-1-ND	5.22	3.48	3.12	609-1696-2-ND	450	1287.37	61083-103422LF
	0.303 (7.70)	1.803 (45.80)	0.236 (6.00)	4	Yes	609-1697-1-ND	5.28	3.43	3.13	609-1697-2-ND	400	1114.24	61083-104402LF
	0.303 (7.70)	1.803 (45.80)	0.236 (6.00)	4	No	609-1698-1-ND	4.99	3.18	2.91	609-1698-2-ND	400	1052.93	61083-104422LF
120	0.185 (4.70)	2.118 (53.80)	0.236 (6.00)	1	Yes	609-1699-1-ND	4.96	3.16	2.89	609-1699-2-ND	650	1640.28	61083-121402LF
	0.185 (4.70)	2.118 (53.80)	0.236 (6.00)	1	No	609-1700-1-ND	5.40	3.50	3.20	609-1700-2-ND	650	1819.27	61083-121422LF
	0.224 (5.70)	2.118 (53.80)	0.236 (6.00)	2	Yes	609-1701-1-ND	5.44	3.62	3.25	609-1701-2-ND	550	1610.99	61083-122402LF
	0.224 (5.70)	2.118 (53.80)	0.236 (6.00)	2	No	609-1702-1-ND	5.69	3.79	3.40	609-1702-2-ND	550	1684.14	61083-122422LF
	0.264 (6.70)	2.118 (53.80)	0.236 (6.00)	3	Yes	609-1703-1-ND	5.56	3.71	3.32	609-1703-2-ND	450	1372.15	61083-123402LF
	0.264 (6.70)	2.118 (53.80)	0.236 (6.00)	3	No	609-1704-1-ND	5.26	3.51	3.14	609-1704-2-ND	450	1298.08	61083-123422LF
	0.303 (7.70)	2.118 (53.80)	0.236 (6.00)	4	Yes	609-1705-1-ND	5.27	3.51	3.14	609-1705-2-ND	400	1154.65	61083-124402LF
	0.303 (7.70)	2.118 (53.80)	0.236 (6.00)	4	No	609-1706-1-ND	5.59	3.72	3.34	609-1706-2-ND	400	1224.93	61083-124422LF
140	0.185 (4.70)	2.433 (61.80)	0.236 (6.00)	1	Yes	609-1707-1-ND	5.82	3.88	3.47	609-1707-2-ND	650	2590.04	61083-141402LF
	0.185 (4.70)	2.433 (61.80)	0.236 (6.00)	1	No	609-1708-1-ND	6.10	4.06	3.64	609-1708-2-ND	650	2133.68	61083-141422LF
	0.224 (5.70)	2.433 (61.80)	0.236 (6.00)	2	Yes	609-1709-1-ND	5.99	3.99	3.57	609-1709-2-ND	550	1772.54	61083-142402LF
	0.224 (5.70)	2.433 (61.80)	0.236 (6.00)	2	No	609-1710-1-ND	8.95	6.16	5.60	609-1710-2-ND	550	2821.57	61083-142422LF
	0.264 (6.70)	2.433 (61.80)	0.236 (6.00)	3	Yes	609-1711-1-ND	6.26	4.34	3.84	609-1711-2-ND	450	1577.58	61083-143402LF
	0.264 (6.70)	2.433 (61.80)	0.236 (6.00)	3	No	609-1712-1-ND	6.46	4.48	3.96	609-1712-2-ND	450	1628.93	61083-143422LF
	0.303 (7.70)	2.433 (61.80)	0.236 (6.00)	4	Yes	609-1713-1-ND	5.11	3.26	2.98	609-1713-2-ND	400	1077.23	61083-144402LF
	0.303 (7.70)	2.433 (61.80)	0.236 (6.00)	4	No	609-1714-1-ND	7.93	5.40	4.76	609-1714-2-ND	400	1775.98	61083-144422LF
160	0.185 (4.70)	2.748 (69.80)	0.236 (6.00)	1	Yes	609-1715-1-ND	10.10	7.16	6.59	609-1715-2-ND	650	3854.24	61083-161402LF
	0.185 (4.70)	2.748 (69.80)	0.236 (6.00)	1	No	609-1716-1-ND	10.00	6.80	6.26	609-1716-2-ND	650	3656.72	61083-161422LF
	0.224 (5.70)	2.748 (69.80)	0.236 (6.00)	2	Yes	609-1717-1-ND	9.48	6.52	5.93	609-1717-2-ND	550	2985.90	61083-162402LF
	0.224 (5.70)	2.748 (69.80)	0.236 (6.00)	2	No	609-1718-1-ND	9.48	6.52	5.93	609-1718-2-ND	550	2985.90	61083-162422LF
	0.264 (6.70)	2.748 (69.80)	0.236 (6.00)	3	Yes	609-1719-1-ND	8.04	5.70	5.03	609-1719-2-ND	450	2111.32	61083-163402LF
	0.264 (6.70)	2.748 (69.80)	0.236 (6.00)	3	No	609-1720-1-ND	8.04	5.70	5.03	609-1720-2-ND	450	2111.32	61083-163422LF
	0.303 (7.70)	2.748 (69.80)	0.236 (6.00)	4	Yes	609-1721-1-ND	6.63	4.59	4.06	609-1721-2-ND	400	1485.12	61083-164402LF
	0.303 (7.70)	2.748 (69.80)	0.236 (6.00)	4	No	609-1722-1-ND	9.67	6.57	6.05	609-1722-2-ND	400	2256.24	61083-164422LF
180	0.185 (4.70)	3.063 (77.80)	0.236 (6.00)	1	Yes	609-1723-1-ND	10.15	7.20	6.63	609-1723-2-ND	650	3874.16	61083-181402LF
	0.185 (4.70)	3.063 (77.80)	0.236 (6.00)	1	No	609-1724-1-ND	10.15	7.20	6.63	609-1724-2-ND	650	3874.16	61083-181422LF
	0.264 (6.70)	3.063 (77.80)	0.236 (6.00)	3	Yes	609-1727-1-ND	9.74	6.91	6.36	609-1727-2-ND	450	2669.00	61083-183402LF
	0.264 (6.70)	3.063 (77.80)	0.236 (6.00)	3	No	609-1728-1-ND	9.74	6.91	6.36	609-1728-2-ND	450	2669.00	61083-183422LF
	0.303 (7.70)	3.063 (77.80)	0.236 (6.00)	4	Yes	609-1729-1-ND	7.16	4.87	4.39	609-1729-2-ND	400	1603.50	61083-184402LF
	0.303 (7.70)	3.063 (77.80)	0.236 (6.00)	4	No	609-1730-1-ND	9.75	6.92	6.37	609-1730-2-ND	400	2374.57	61083-184422LF
200	0.185 (4.70)	3.378 (85.80)	0.236 (6.00)	1	Yes	609-1731-1-ND	8.68	5.97	5.43	609-1731-2-ND	650	3231.80	61083-201402LF
	0.185 (4.70)	3.378 (85.80)	0.236 (6.00)	1	No	609-1732-1-ND	8.68	5.97	5.43	609-1732-2-ND	650	3231.80	61083-201422LF
	0.224 (5.70)	3.378 (85.80)	0.236 (6.00)	2	Yes	609-1733-1-ND	9.25	6.36	5.78	609-1733-2-ND	550	2913.30	61083-202402LF
	0.224 (5.70)	3.378 (85.80)	0.236 (6.00)	2	No	609-1734-1-ND	9.25	6.36	5.78	609-1734-2-ND	550	2913.30	61083-202422LF
	0.264 (6.70)	3.378 (85.80)	0.236 (6.00)	3	Yes	609-1735-1-ND	10.59	7.51	6.91	609-1735-2-ND	450	2848.85	61083-203402LF
	0.264 (6.70)	3.378 (85.80)	0.236 (6.00)	3	No	609-1736-1-ND	10.59	7.51	6.91	609-1736-2-ND	450	2848.85	61083-203422LF
	0.303 (7.70)	3.378 (85.80)	0.236 (6.00)	4	Yes	609-1737-1-ND	9.41	6.48	5.89	609-1737-2-ND	400	2196.26	61083-204402LF
	0.303 (7.70)	3.378 (85.80)	0.236 (6.00)	4	No	609-1738-1-ND	9.41	6.48	5.89	609-1738-2-ND	400	2196.26	61083-204422LF
Fig. 2 — Receptacles													
40	0.145 (3.70)	0.858 (21.80)	0.236 (6.00)	1	Yes	609-1613-1-ND	3.68	2.29	2.07	609-1613-2-ND	800	1420.16	61082-041402LF
	0.145 (3.70)	0.858 (21.80)	0.236 (6.00)	1	No	609-1614-1-ND	3.83	2.38	2.16	609-1614-2-ND	800	1502.48	61082-041422LF
	0.303 (7.70)	0.858 (21.80)	0.268 (6.80)	2	Yes	609-1615-1-ND	3.80	2.36	2.14	609-1615-2-ND	500	949.90	61082-042402LF
	0.303 (7.70)	0.858 (21.80)	0.268 (6.80)	2	No	609-1616-1-ND	3.47	2.15	1.89	609-1616-2-ND	500	839.48	61082-042422LF
	0.461 (11.70)	0.858 (21.80)	0.252 (6.40)	3	Yes	609-1617-1-ND	3.31	2.05	1.81	609-1617-2-ND	300	497.03	61082-043402LF
	0.461 (11.70)	0.858 (21.80)	0.252 (6.40)	3	No	609-1618-1-ND	3.61	2.25	2.04	609-1618-2-ND	300	560.75	61082-043422LF
60	0.145 (3.70)	1.173 (29.80)	0.236 (6.00)	1	Yes	609-1619-1-ND	4.30	2.77	2.46	609-1619-2-ND	800	1720.10	61082-061402LF
	0.145 (3.70)	1.173 (29.80)	0.236 (6.00)	1	No	609-1620-1-ND	5.19	3.31	3.02	609-1620-2-ND	800	2112.32	61082-061422LF
	0.303 (7.70)	1.173 (29.80)	0.268 (6.80)	2	Yes	609-1621-1-ND	4.98	3.20	2.85	609-1621-2-ND	500	1266.47	61082-062402LF
	0.303 (7.70)	1.173 (29.80)	0.268 (6.80)	2	No	609-1622-1-ND	4.55	2.85	2.60	609-1622-2-ND	500	1157.53	61082-062422LF
	0.461 (11.70)	1.173 (29.80)	0.252 (6.40)	3	Yes	609-1623-1-ND	4.53	2.91	2.59	609-1623-2-ND	300	727.52	61082-063402LF
	0.461 (11.70)	1.173 (29.80)	0.252 (6.40)	3	No	609-1624-1-ND	4.17	2.59	2.35	609-1624-2-ND	300	647.33	61082-063422LF
80	0.145 (3.70)	1.488 (37.80)	0.236 (6.00)	1	Yes	609-1625-1-ND	4.16	2.59	2.35	609-1625-2-ND	800	1608.32	61082-081402LF
	0.145 (3.70)	1.488 (37.80)	0.236 (6.00)	1	No	609-1626-1-ND	5.72	3.81	3.41	609-1626-2-ND	800	2462.88	61082-081422LF
	0.303 (7.70)	1.488 (37.80)	0.268 (6.80)	2	Yes	609-1627-1-ND	2.47	1.49	1.30	609-1627-2-ND	500	570.15	61082-082402LF
	0.303 (7.70)	1.488 (37.80)	0.268 (6.80)	2	No	609-1628-1-ND	5.20	3.31	3.03	609-1628-2-ND	500	1347.55	61082-082422LF
	0.461 (11.70)	1.488 (37.80)	0.252 (6.40)	3	Yes	609-1629-1-ND	5.09	3.24	2.96	609-1629-2-ND	300	804.36	61082-083402LF
	0.461 (11.70)	1.488 (37.80)	0.252 (6.40)	3	No	609-1630-1-ND	4.85	3.04	2.78	609-1630-2-ND	300	753.46	61082-083422LF
100	0.145 (3.70)	1.803 (45.80)	0.236 (6.00)	1	Yes	609-1631-1-ND	5.38	3.50	3.20	609-1631-2-ND	800	2233.73	61082-101402LF
	0.145 (3.70)	1.803 (45.80)	0.236 (6.00)	1	No	609-1632-1-ND	6.32	4.38	3.87	609-1632-2-ND	800	2779.48	61082-101422LF
	0.303 (7.70)	1.803 (45.80)	0.268 (6.80)	2	Yes	609-1633-1-ND	5.32	3.55	3.18	609-1633-2-ND	400	1166.90	61082-102402LF
	0.303 (7.70)	1.803 (45.80)	0.268 (6.80)	2	No	609-1634-1-ND	5.60	3.73	3.34	609-1634-2-ND	400	1227.15	61082-102422LF
	0.461 (11.70)	1.803 (45.80)	0.252 (6.40)	3	Yes	609-1635-1-ND	6.09	4.06	3.64	609-1635-2-ND	300	1019.73	61082-103402LF
	0.461 (11.70)	1.803 (45.80)	0.252 (6.40)	3	No	609-1636-1-ND	5.39	3.59	3.22	609-1636-2-ND	300	901.58	61082-103422LF

(Continued)

NEW! FCI BergStak™ 0.03” (0.8mm) Mezzanine Connector System *(Cont.)*

No. of Positions	Dimensions - Inch (mm) A	B	C	Mate Height Code	Polari-zation	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	FCI Part No.
120	0.145 (3.70)	2.118 (53.80)	0.236 (6.00)	1	Yes	609-1637-1-ND	5.81	3.87	3.47	609-1637-2-ND	800	2592.02	61082-121402LF
	0.145 (3.70)	2.118 (53.80)	0.236 (6.00)	1	No	609-1638-1-ND	6.91	4.79	4.23	609-1638-2-ND	800	3040.95	61082-121422LF
	0.303 (7.70)	2.118 (53.80)	0.268 (6.80)	2	Yes	609-1639-1-ND	4.26	2.74	2.44	609-1639-2-ND	400	881.95	61082-122402LF
	0.303 (7.70)	2.118 (53.80)	0.268 (6.80)	2	No	609-1640-1-ND	6.89	4.77	4.22	609-1640-2-ND	400	1543.86	61082-122422LF
	0.461 (11.70)	2.118 (53.80)	0.252 (6.40)	3	Yes	609-1641-1-ND	6.22	4.14	3.71	609-1641-2-ND	300	1040.82	61082-123402LF
	0.461 (11.70)	2.118 (53.80)	0.252 (6.40)	3	No	609-1642-1-ND	6.07	4.04	3.62	609-1642-2-ND	300	1015.77	61082-123422LF
140	0.145 (3.70)	2.433 (61.80)	0.236 (6.00)	1	Yes	609-1643-1-ND	6.44	4.29	3.85	609-1643-2-ND	700	2428.24	61082-141402LF
	0.145 (3.70)	2.433 (61.80)	0.236 (6.00)	1	No	609-1644-1-ND	6.02	4.01	3.59	609-1644-2-ND	700	2267.92	61082-141422LF
	0.303 (7.70)	2.433 (61.80)	0.268 (6.80)	2	Yes	609-1645-1-ND	5.19	3.31	3.02	609-1645-2-ND	400	1075.82	61082-142402LF
	0.303 (7.70)	2.433 (61.80)	0.268 (6.80)	2	No	609-1646-1-ND	10.14	7.19	6.62	609-1646-2-ND	400	2469.71	61082-142422LF
	0.461 (11.70)	2.433 (61.80)	0.252 (6.40)	3	Yes	609-1647-1-ND	6.47	4.48	3.97	609-1647-2-ND	300	1106.75	61082-143402LF
	0.461 (11.70)	2.433 (61.80)	0.252 (6.40)	3	No	609-1648-1-ND	6.49	4.32	3.87	609-1648-2-ND	800	2795.30	61082-143422LF
160	0.145 (3.70)	2.748 (69.80)	0.236 (6.00)	1	Yes	609-1649-1-ND	6.79	4.70	4.16	609-1649-2-ND	700	3404.03	61082-161402LF
	0.145 (3.70)	2.748 (69.80)	0.236 (6.00)	1	No	609-1650-1-ND	10.53	7.47	6.87	609-1650-2-ND	700	4327.34	61082-161422LF
	0.303 (7.70)	2.748 (69.80)	0.268 (6.80)	2	Yes	609-1651-1-ND	9.70	6.59	6.06	609-1651-2-ND	400	2262.29	61082-162402LF
	0.303 (7.70)	2.748 (69.80)	0.268 (6.80)	2	No	609-1652-1-ND	9.70	6.59	6.06	609-1652-2-ND	400	2262.29	61082-162422LF
	0.461 (11.70)	2.748 (69.80)	0.252 (6.40)	3	Yes	609-1653-1-ND	4.92	3.14	2.87	609-1653-2-ND	300	778.69	61082-163402LF
	0.461 (11.70)	2.748 (69.80)	0.252 (6.40)	3	No	609-1654-1-ND	6.35	4.23	3.79	609-1654-2-ND	300	1062.18	61082-163422LF
180	0.145 (3.70)	3.063 (77.80)	0.236 (6.00)	1	Yes	609-1655-1-ND	9.79	6.94	6.39	609-1655-2-ND	700	4023.43	61082-181402LF
	0.145 (3.70)	3.063 (77.80)	0.236 (6.00)	1	No	609-1656-1-ND	9.79	6.94	6.39	609-1656-2-ND	700	4023.43	61082-181422LF
	0.303 (7.70)	3.063 (77.80)	0.268 (6.80)	2	Yes	609-1657-1-ND	7.59	5.17	4.56	609-1657-2-ND	400	1700.61	61082-182402LF
	0.303 (7.70)	3.063 (77.80)	0.268 (6.80)	2	No	609-1658-1-ND	11.42	8.10	7.45	609-1658-2-ND	400	2781.02	61082-182422LF
	0.461 (11.70)	3.063 (77.80)	0.252 (6.40)	3	Yes	609-1659-1-ND	10.12	7.18	6.61	609-1659-2-ND	300	1848.88	61082-183402LF
	0.461 (11.70)	3.063 (77.80)	0.252 (6.40)	3	No	609-1660-1-ND	10.12	7.18	6.61	609-1660-2-ND	300	1848.88	61082-183422LF
200	0.145 (3.70)	3.378 (85.80)	0.236 (6.00)	1	Yes	609-1661-1-ND	10.75	7.63	7.02	609-1661-2-ND	700	4417.88	61082-201402LF
	0.145 (3.70)	3.378 (85.80)	0.236 (6.00)	1	No	609-1662-1-ND	10.75	7.63	7.02	609-1662-2-ND	700	4417.88	61082-201422LF
	0.303 (7.70)	3.378 (85.80)	0.268 (6.80)	2	Yes	609-1663-1-ND	12.73	9.23	8.21	609-1663-2-ND	400	3112.95	61082-202402LF
	0.303 (7.70)	3.378 (85.80)	0.268 (6.80)	2	No	609-1664-1-ND	12.73	9.23	8.21	609-1664-2-ND	400	3112.95	61082-202422LF
	0.461 (11.70)	3.378 (85.80)	0.252 (6.40)	3	Yes	609-1665-1-ND	11.12	7.88	7.25	609-1665-2-ND	300	2029.73	61082-203402LF
	0.461 (11.70)	3.378 (85.80)	0.252 (6.40)	3	No	609-1666-1-ND	11.12	7.88	7.25	609-1666-2-ND	300	2029.73	61082-203422LF

NEW! FCI Conan® High Density, Low Profile 0.04” (1.00 mm) Connector System

RoHS COMPLIANT

The Conan 1.0mm mezzanine connector system provides a mechanically secure, high density electrical interface between parallel printed circuit boards.

Features: • “Snap” engagement contacts assure secure mating with an audible “click” • Connector housings feature “lead- in” angles to assist in mating • Mating polarization prevents backward connections **Applications:** • Portable and mobile electronic equipment • Medical and Instrumentation • Office Equipment • Communications and Networking Equipment **Mechanical Performance:** • Mating Force: 125g per contact maximum • Unmating Force: 45g per contact minimum • Durability: 30 mating cycles **Electrical Performance:** • Insulation Resistance: 1,000MΩ minimum • Contact Resistance: 30mΩ maximum • Withstanding Voltage: 500VAC, RMS at 60Hz • Current Rating : 1.0A continuous (per contact, all contacts powered)

Fig. 1

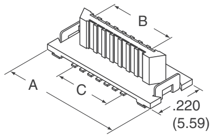

Fig. 2

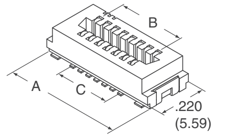

No. of Pos.	Overall Mated Height With Receptacle	Dimensions - Inch (mm) A	B	C	Digi-Key Part No	Price Each 1	25	100	FCI Part No.
Fig. 1 — Headers									
9	4.15	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-1570-ND	4.02	2.37	2.05	91910-21109LF
11	4.15	0.406 (10.30)	0.197 (5.00)	0.157 (4.00)	609-1571-ND	4.12	2.37	2.10	91910-21111LF
15	4.15	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-1572-ND	3.97	2.35	2.08	91910-21115LF
21	4.15	0.602 (15.30)	0.394 (10.00)	0.345 (9.00)	609-1573-ND	4.09	2.46	2.14	91910-21121LF
25	4.15	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-1574-ND	4.04	2.40	2.15	91910-21125LF
31	4.15	0.799 (20.30)	0.591 (15.00)	0.551 (14.00)	609-1575-ND	4.26	2.62	2.27	91910-21131LF
41	4.15	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-1576-ND	4.58	2.85	2.58	91910-21141LF
51	4.15	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-1577-ND	4.80	2.99	2.70	91910-21151LF
69	4.15	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-1578-ND	5.24	3.28	3.00	91910-21169LF
9	7.00	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-1579-ND	6.03	3.55	3.07	91910-21509LF
11	7.00	0.406 (10.30)	0.197 (5.00)	0.157 (4.00)	609-1580-ND	4.41	2.53	2.25	91910-21511LF
15	7.00	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-1581-ND	4.29	2.54	2.25	91910-21515LF
21	7.00	0.602 (15.30)	0.394 (10.00)	0.345 (9.00)	609-1582-ND	5.92	3.56	3.10	91910-21521LF
25	7.00	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-1583-ND	4.39	2.61	2.34	91910-21525LF
31	7.00	0.799 (20.30)	0.591 (15.00)	0.551 (14.00)	609-1584-ND	6.34	3.89	3.38	91910-21531LF
41	7.00	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-1585-ND	4.03	2.51	2.27	91910-21541LF
51	7.00	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-1586-ND	4.99	3.10	2.81	91910-21551LF
69	7.00	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-1587-ND	4.26	2.58	2.36	91910-21569LF
Fig. 2 — Receptacles									
9	—	0.366 (9.30)	0.157 (4.00)	0.118 (3.00)	609-1588-ND	3.87	2.23	1.98	91930-21109LF
11	—	0.406 (10.30)	0.197 (5.00)	0.157 (4.00)	609-1589-ND	3.63	2.15	1.91	91930-21111LF
15	—	0.484 (12.30)	0.276 (7.00)	0.236 (6.00)	609-1590-ND	3.75	2.26	1.97	91930-21115LF
21	—	0.602 (15.30)	0.394 (10.00)	0.345 (9.00)	609-1591-ND	3.80	2.26	2.02	91930-21121LF
25	—	0.681 (17.30)	0.472 (12.00)	0.433 (11.00)	609-1592-ND	3.11	1.91	1.66	91930-21125LF
31	—	0.799 (20.30)	0.591 (15.00)	0.551 (14.00)	609-1593-ND	3.86	2.39	2.10	91930-21131LF
41	—	0.996 (25.30)	0.787 (20.00)	0.748 (19.00)	609-1594-ND	3.92	2.44	2.21	91930-21141LF
51	—	1.193 (30.30)	0.984 (25.00)	0.945 (24.00)	609-1595-ND	4.77	2.99	2.73	91930-21151LF
69	—	1.547 (39.30)	1.339 (34.00)	1.299 (33.00)	609-1596-ND	5.29	3.53	3.16	91930-21169LF

NEW! FCI RIB-CAGE™ High Density, .050” x .050” (1.27 mm x 1.27 mm) Board-to-Board Connnector System

RoHS COMPLIANT

Rib-Cage™ is a versatile family of two-piece, two-row pin-and-socket connectors for right angle and mezzanine connections between printed circuit boards (PCB) or flexible printed circuits (FPC).

Features: • Exclusive Rib-Cage™ multi-point, gold plated receptacle contacts provide optimal reliability in high vibration and shock-prone applications. • High density .050” (1.27 mm) x .050” (1.27 mm) double row contact grid occupies only 20% of the volume of comparable 0.100” pitch systems. • Polarization prevents mis-mating.

Applications: • Shock resistant and vibration-prone electronic applications. • Handheld test and diagnostic equipment. • Electronic sub-assemblies used in conjunction with fans, motors and mechanical devices.

Materials: Contact Plating: 30μ (0.76μm) gold over Nickel in Contact area; lead-free pure tin over Nickel on solder tails.

Electrical Performance: 1.0A DC per contact with all contacts energized • Insulation Resistance: 50,000MΩ minimum initial • Withstanding Voltage: 800VAC, RMS at 60Hz

Fig. 1

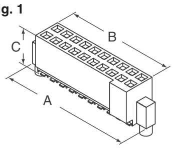

Fig. 2

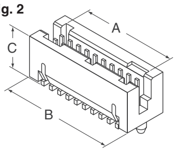

No. of Positions	Dimensions - Inch (mm) A	B	C	Digi-Key Part No	Price Each 1	25	100	FCI Part No.
Fig. 1 — Headers SMT								
20	0.622 (15.80)	0.525 (13.34)	0.226 (5.74)	609-1550-ND	2.22	1.31	1.13	87409-110LF
30	0.872 (22.15)	0.775 (19.68)	0.226 (5.74)	609-1551-ND	3.18	1.91	1.67	87409-115LF
40	1.122 (28.50)	1.025 (26.03)	0.226 (5.74)	609-1552-ND	4.04	2.48	2.16	87409-120LF
Fig. 2 — Receptacles SMT								
20	0.516 (13.11)	0.620 (15.75)	0.187 (4.75)	609-1553-ND	2.25	1.22	1.07	87024-610LF
30	0.766 (19.46)	0.870 (22.10)	0.187 (4.75)	609-1554-ND	3.10	1.78	1.58	87024-615LF
40	1.016 (25.81)	1.120 (28.45)	0.187 (4.75)	609-1555-ND	3.89	2.32	2.07	87024-620LF

NEW! FCI MEG-Array®

High Speed Mezzanine Connectors

Fig. 1

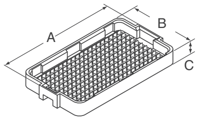

Fig. 2

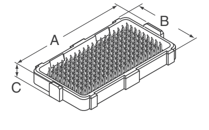

Features: • Utilized in high-density, high-speed mezzanine applications at data rates up to 1.0 Gb/s • MEG-Array connectors support stack heights in the range of 4 mm to 14 mm with options for 81 to 528 contact positions • FCI's patented BGA technology, ensuring reliable attach, easy placement and routing and good electrical performance • Meet Telcordida GR-1217-CORE

Applications: • Device-to-Board: Optical Transponders and Transceivers, Add/Drop Mulitplexers, Control Units, Processor Cards, Displays, Medical Diagnostic Equipment (CT scan, Eye scan etc.) • Board-to-Board: Servers, Base Stations, Memory Cards, Mobile Broadcast Equipment

No. of Positions	Stacking Height Inch (mm)	Dimensions - Inch (mm) A	B	C	Digi-Key Part No	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	FCI Part No.
Fig. 1 — Plugs												
200	0.000 (0.00)	1.236 (31.40)	0.683 (17.34)	0.132 (3.35)	609-1090-1-ND	11.55	8.37	7.45	609-1090-2-ND	250	1796.55	84516-102LF
300	0.000 (0.00)	1.736 (44.10)	0.683 (17.34)	0.132 (3.35)	609-1095-1-ND	12.00	8.50	7.50	609-1095-2-ND	250	1781.25	84500-102LF
300	0.236 (6.00)	1.756 (44.60)	0.683 (17.34)	0.368 (9.35)	609-1096-1-ND	17.98	13.27	12.20	609-1096-2-ND	150	1797.68	84578-102LF
400	0.000 (0.00)	2.236 (56.80)	0.683 (17.34)	0.132 (3.35)	609-1100-1-ND	18.08	13.35	12.27	609-1100-2-ND	250	2959.28	84740-102LF
400	0.236 (6.00)	2.256 (57.30)	0.683 (17.34)	0.368 (9.35)	609-1101-1-ND	18.80	13.88	12.76	609-1101-2-ND	150	1880.26	84520-102LF
Fig. 2 — Receptacles												
200	0.157 (4.00)	1.165 (29.60)	0.647 (16.44)	0.132 (3.35)	609-1091-1-ND	13.10	9.49	8.45	609-1091-2-ND	250	2037.63	84517-101LF
200	0.236 (6.00)	1.165 (29.60)	0.647 (16.44)	0.211 (5.35)	609-1092-1-ND	14.78	10.75	9.75	609-1092-2-ND	200	1881.15	55724-101LF
200	0.315 (8.00)	1.165 (29.60)	0.647 (16.44)	0.289 (7.35)	609-1093-1-ND	13.38	9.74	8.82	609-1093-2-ND	150	1299.96	84535-101LF
200	0.315 8.00)	1.165 (29.60)	0.647 (16.44)	0.289 (7.35)	609-1094-1-ND	21.62	16.55	15.14	609-1094-2-ND	150	2270.48	84535-201LF
300	0.157 (4.00)	1.665 (42.30)	0.645 (16.38)	0.132 (3.35)	609-1097-1-ND	19.13	14.12	12.99	609-1097-2-ND	250	3131.39	84501-101LF
300	0.217 (5.50)	1.665 (42.30)	0.645 (16.38)	0.191(4.85)	609-1098-1-ND	21.88	16.75	15.32	609-1098-2-ND	200	3009.00	84502-101LF
300	0.315 (8.00)	1.665 (42.30)	0.647 (16.44)	0.289 (7.35)	609-1099-1-ND	21.29	16.29	14.91	609-1099-2-ND	150	2235.01	84553-101LF
400	0.157 (4.00)	2.165 (55.00)	0.647 (16.44)	0.132 (3.35)	609-1102-1-ND	18.97	14.00	12.87	609-1102-2-ND	250	3104.58	74221-101LF
400	0.236 (6.00)	2.165 (55.00)	0.647 (16.44)	0.211 (5.35)	609-1103-1-ND	22.30	17.06	15.61	609-1103-2-ND	250	3763.02	74388-101LF
400	0.315 (8.00)	2.165 (55.00)	0.647 (16.44)	0.289 (7.35)	609-1104-1-ND	21.16	16.19	14.81	609-1104-2-ND	200	2908.92	74390-101LF

NEW! FCI BTFW Series Connector System

0.04" (1.00 mm) Floating Board-to-Board

Fig. 1

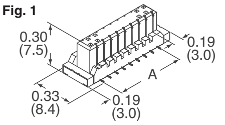

Fig. 2

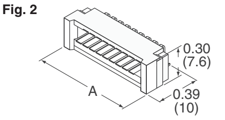

The BTFW Series is a floating board-to-board connector system consisting of plugs and receptacles with two rows of staggered contacts on 0.04" (1.00 mm) center lines. This connector system, is designed for board-to-board applications, such as audio video (AV) and navigation systems in automobiles, that require high density and high reliability interconnects with higher pin counts and surface mount termination. The contacts have a wide floating allowance of ± 0.03" (0.80 mm) in the pitch direction and ± 0.02" (0.50 mm) in the width direction.

Features:

- Wide floating allowance absorbs mating shift between plug and receptacle, permitting self-alignment of the mating connectors; and provides highly reliable mechanical performance
- FCI's Gas Tight High Pressure (GTH) contact system provides a highly reliable gas tight (and low cost) connected interface

Materials:

• **Housing:** Glass filled thermoplastic (UL 94 V-0) • Color: Black • **SMT Plug:** • Contact: Phosphor bronze • Contact Plating: Tin alloy • **SMT and DIP Receptacle:** • Contact: Brass • Contact Plating: Tin alloy

Electrical and Mechanical Performance:

• Contact resistance: 70mΩ maximum initial • Insulation Resistance: 100MΩ minimum • Current Rating: 1A • Durabillity: 20 Mating Cycles • Operating Temperature Range: -55°C ~ 85°C

Fig.	No. of Positions	Dim. - Inch (mm) A	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 700	FCI Part No.
Vertical SMT Plug									
1	10	0.394 (10.02)	609-2465-1-ND	1.34	.72	.62	609-2465-2-ND	291.87	BTFW10P-3SSTE1LF
	12	0.434 (11.02)	609-2467-1-ND	1.52	.83	.73	609-2467-2-ND	441.04	BTFW12P-3SSTE1LF
	14	0.473 (12.02)	609-2469-1-ND	1.64	.89	.78	609-2469-2-ND	465.68	BTFW14P-3SSTE1LF
	16	0.513 (13.02)	609-2471-1-ND	1.71	.96	.84	609-2471-2-ND	499.07	BTFW16P-3SSTE1LF
	18	0.552 (14.02)	609-2473-1-ND	1.58	.86	.75	609-2473-2-ND	458.28	BTFW18P-3SSTE1LF
	20	0.591 (15.02)	609-2475-1-ND	1.17	.67	.55	609-2475-2-ND	325.72	BTFW20P-3SSTE1LF
	22	0.631 (16.02)	609-2477-1-ND	1.94	1.15	.99	609-2477-2-ND	396.81	BTFW22P-3SSTE1LF
	24	0.670 (17.02)	609-2479-1-ND	.96	.51	.43	609-2479-2-ND	903.50	BTFW24P-3SSTE1LF
	26	0.709 (18.02)	609-2481-1-ND	2.17	1.25	1.11	609-2481-2-ND	670.85	BTFW26P-3SSTE1LF
	28	0.749 (19.02)	609-2483-1-ND	2.22	1.32	1.17	609-2483-2-ND	706.23	BTFW28P-3SSTE1LF
	30	0.788 (20.02)	609-2485-1-ND	2.30	1.36	1.21	609-2485-2-ND	731.64	BTFW30P-3SSTE1LF
Right Angle SMT Receptacle									
2	10	0.473 (12.02)	609-2466-1-ND	1.34	.73	.62	609-2466-2-ND	290.86	BTFW10R-3RSTE1LF
	12	0.513 (13.02)	609-2468-1-ND	1.51	.82	.72	609-2468-2-ND	305.42	BTFW12R-3RSTE1LF
	14	0.552 (14.02)	609-2470-1-ND	1.44	.81	.69	609-2470-2-ND	410.30	BTFW14R-3RSTE1LF
	16	0.591 (15.02)	609-2472-1-ND	1.50	.81	.71	609-2472-2-ND	433.11	BTFW16R-3RSTE1LF
	18	0.631 (16.02)	609-2474-1-ND	1.56	.85	.74	609-2474-2-ND	337.22	BTFW18R-3RSTE1LF
	20	0.670 (17.02)	609-2476-1-ND	1.20	.66	.56	609-2476-2-ND	325.07	BTFW20R-3RSTE1LF
	22	0.709 (18.02)	609-2478-1-ND	1.68	.94	.82	609-2478-2-ND	364.67	BTFW22R-3RSTE1LF
	24	0.749 (19.02)	609-2480-1-ND	.95	.50	.43	609-2480-2-ND	248.53	BTFW24R-3RSTE1LF
	26	0.788 (20.02)	609-2482-1-ND	1.77	1.01	.88	609-2482-2-ND	529.73	BTFW26R-3RSTE1LF
	28	0.828 (21.02)	609-2484-1-ND	1.86	1.07	.92	609-2484-2-ND	557.76	BTFW28R-3RSTE1LF
	30	0.867 (22.02)	609-2486-1-ND	2.05	1.18	1.05	609-2486-2-ND	633.36	BTFW30R-3RSTE1LF

NEW! FCI PwrBlade™ Power Distribution Connector System

Fig. 1

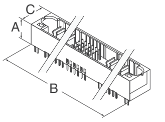

Fig. 2

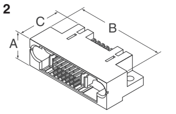

Fig. 3

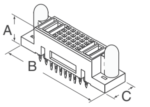

Fig. 4

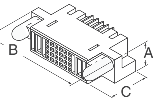

PwrBlade power distribution connector system consists of power and signal contacts. This system is designed to economically satisfy the demanding requirements of server applications. The connectors are configured to satisfy the specific requirements of Industry SSI design standards.

Materials: • **Housing:** Glass filled high temperature nylon • Color: Black • **Contacts:** • Power Contacts: Beryllium-copper • Signal Pins: Phosphor-bronze • Signal Contacts: Beryllium-copper • **Plating:** • All contacts: 0.76μm (30μ in.) gold over 1.27μm (50 μ in.) nickel

Electrical and Mechanical Performance: • Insulation Resistance: 20MΩ minimum • Withstanding Voltage: 1,200V RMS • Current Rating: 48A for single-powered contact; derated to 30 for 12-powered contact • Contact Resistance: 0.5mΩ maximum at rated power • Mating Force: 12 pounds typical for 11 power, 24 signal configuration

Fig.	Config-uration	Termi-nation	Dimension - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Header — Vertical										
1	6P, 24S, 5P	PCB	0.500 (12.70)	4.350 (110.49)	0.574 (14.58)	609-2083-ND	18.66	13.78	12.67	51860-001LF
	6P, 24S, 5P	Pressfit	0.500 (12.70)	4.350 (110.49)	0.574 (14.58)	609-2084-ND	31.45	24.07	22.02	51860-002LF
	1P, 24S, 1P	PCB	0.500 (12.70)	1.925 (48.90)	0.574 (14.58)	609-2086-ND	4.57	2.86	2.61	51952-001LF
	1P, 24S, 1P	Pressfit	0.500 (12.70)	1.925 (48.90)	0.574 (14.58)	609-2087-ND	10.72	7.60	6.99	51952-002LF
Header — Right Angle										
2	1P, 24S, 1P	PCB	0.574 (14.58)	1.925 (48.90)	0.930 (23.62)	609-2077-ND	6.30	4.20	3.76	51415-001LF
	6p, 24S, 5P	PCB	0.574 (14.58)	4.350 (110.49)	0.930 (23.62)	609-2079-ND	8.49	6.02	5.31	51624-XX001LF
Receptacle — Vertical										
3	1P, 24S, 1P	Pressfit	0.500 (12.70)	1.925 (48.90)	0.470 (11.94)	609-2081-ND	5.03	3.21	2.93	51666-001LF
	6P, 24S, 5P	Pressfit	0.500 (12.70)	4.350 (110.49)	0.470 (11.94)	609-2082-ND	10.16	7.20	6.36	51667-XX001LF
Receptacle — Right Angle										
4	1P, 24S, 1P	PCB	0.470 (11.94)	1.925 (48.90)	0.820 (20.83)	609-2078-ND	5.15	3.28	3.00	51416-001LF
	6P, 24S, 5P	PCB	0.470 (11.94)	4.350 (110.49)	0.820 (20.83)	609-2080-ND	11.06	7.84	7.22	51625-XX001LF
	6P, 24S, 5P	Pressfit	0.470 (11.94)	4.350 (110.49)	0.865 (21.97)	609-2085-ND	17.85	13.18	12.12	51866-008LF

molex Waldom ELECTRONICS

1.5mm PICO SPOX™ Connectors

Fig. 1

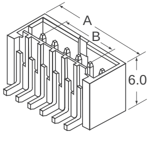

Fig. 2

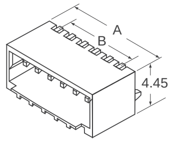

Fig. 3

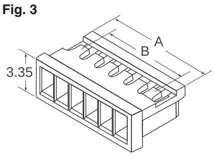

Features: • 2-15 circuits • Standard with center polarizing ramp • Lead in chamfer facilitates mating **Electrical:** • Voltage: 250V • Current: 2.0A • Contact Resistance: 40mΩ maximum • Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1000MΩ min. **Physical:** • Operating Temperature: -25°C ~ 85°C • Housing: Glass filled 6/6 nylon, UL 94V-0 • Headers: Color beige glass filled 4/6 nylon, UL 94V-0 • Contact: Brass Alloy • Plating: Tin over 1.27μm min. Nickel

Circuits	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000	Molex Part No.
Fig. 1 — Header - Vertical									
3	5.80	3.00	WM2035CT-ND	1.01	.89	.60	—	—	87437-0333
5	8.80	6.00	WM18584CT-ND	1.42	1.25	.84	WM18584TR-ND	583.00	87437-0543
6	10.30	7.50	WM2038CT-ND	1.43	1.26	.84	WM2038TR-ND	587.67	87437-0633
7	11.80	9.00	WM2039CT-ND	1.56	1.38	.92	WM2039TR-ND	641.73	87437-0733
8	13.30	10.50	WM2040CT-ND	1.71	1.51	1.01	WM2040TR-ND	704.71	87437-0833
9	14.80	12.00	WM2041CT-ND	1.83	1.62	1.08	WM2041TR-ND	752.57	87437-0933
11	17.80	15.00	WM2043CT-ND	2.07	1.83	1.22	WM2043TR-ND	850.89	87437-1133
12	19.30	16.50	WM2044CT-ND	2.19	1.94	1.29	—	—	87437-1233
13	20.80	18.00	WM2045CT-ND	2.33	2.06	1.38	WM2045TR-ND	961.08	87437-1333
14	22.30	19.50	WM2046CT-ND	2.43	2.15	1.43	WM2046TR-ND	999.85	87437-1433
15	23.80	21.00	WM2047CT-ND	2.55	2.26	1.51	—	—	87437-1533
Fig. 1 — Header - Vertical — RoHS Compliant									
2	4.30	1.50	WM7662CT-ND	.87	.77	.52	WM7662TR-ND	358.94	87437-0243
3	5.80	3.00	WM7663CT-ND	1.01	.89	.60	WM7623TR-ND	774.00	87437-0343
4	7.30	4.50	WM7664CT-ND	1.15	1.02	.68	WM7664TR-ND	473.22	87437-0443
6	10.30	7.50	WM7665CT-ND	1.43	1.26	.84	WM7665TR-ND	587.67	87437-0643
7	11.80	9.00	WM7666CT-ND	1.56	1.38	.92	WM7666TR-ND	641.64	87437-0743
8	13.30	10.50	WM7667CT-ND	1.71	1.51	1.01	WM7667TR-ND	704.71	87437-0843
9	14.80	12.00	WM7668CT-ND	1.83	1.62	1.08	WM7668TR-ND	752.57	87437-0943
10	16.30	13.50	WM7669CT-ND	1.95	1.73	1.15	WM7669TR-ND	803.22	87437-1043
11	17.80	15.00	WM7670CT-ND	2.07	1.83	1.22	WM7670TR-ND	850.89	87437-1143
12	19.30	16.50	WM7671CT-ND	2.19	1.94	1.29	WM7671TR-ND	901.53	87437-1243
13	20.80	18.00	WM7672CT-ND	2.33	2.06	1.38	WM7672TR-ND	961.08	87437-1343
14	22.30	19.50	WM7673CT-ND	2.43	2.15	1.43	WM7673TR-ND	999.85	87437-1443
15	23.80	21.00	WM7674CT-ND	2.55	2.26	1.51	WM7674TR-ND	1050.30	87437-1543
Fig. 2 — Header - Right Angle — RoHS Compliant									
2	4.30	1.50	WM7646CT-ND	.93	.83	.55	WM7646TR-ND	384.00	87438-0243
3	5.80	3.00	WM7647CT-ND	1.17	1.04	.70	WM7647TR-ND	483.00	87438-0343
4	7.30	4.50	WM7648CT-ND	1.32	1.17	.78	WM7648TR-ND	542.00	87438-0443
5	8.80	6.00	WM7649CT-ND	1.34	1.19	.80	WM7649TR-ND	554.00	87438-0543
6	10.30	7.50	WM7650CT-ND	1.54	1.37	.91	WM7650TR-ND	635.00	87438-0643
7	11.80	9.00	WM7651CT-ND	1.82	1.61	1.08	WM7651TR-ND	750.00	87438-0743
8	13.30	10.50	WM7652CT-ND	1.96	1.73	1.16	WM7652TR-ND	805.00	87438-0843
9	14.80	12.00	WM7653CT-ND	2.00	1.77	1.18	WM7653TR-ND	823.00	87438-0943
10	16.30	13.50	WM7654CT-ND	2.17	1.92	1.28	WM7654TR-ND	894.00	87438-1043
11	17.80	15.00	WM7655CT-ND	2.34	2.07	1.38	WM7655TR-ND	963.00	87438-1143
12	19.30	16.50	WM7656CT-ND	2.51	2.22	1.48	WM7656TR-ND	1034.00	87438-1243
13	20.80	18.00	WM7657CT-ND	2.68	2.37	1.58	WM7657TR-ND	1104.00	87438-1343
14	22.30	19.50	WM7658CT-ND	2.85	2.52	1.68	WM7658TR-ND	1174.00	87438-1443
15	23.80	21.00	WM7659CT-ND	3.02	2.67	1.78	WM7659TR-ND	1244.00	87438-1543

Circuits	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Fig. 3 — Housing							
2	4.10	1.50	WM2086-ND	.28	.26	.17	87439-0200
3	5.60	3.00	WM2087-ND	.31	.27	.18	87439-0300
4	7.10	4.50	WM2088-ND	.33	.29	.20	87439-0400
5	8.60	6.00	WM2089-ND	.36	.32	.22	87439-0500
6	10.10	7.50	WM2090-ND	.39	.35	.24	87439-0600
7	11.60	9.00	WM2091-ND	.43	.39	.26	87439-0700
8	13.10	10.50	WM2092-ND	.45	.40	.27	87439-0800
9	14.60	12.00	WM2093-ND	.46	.41	.28	87439-0900
10	16.10	13.50	WM2094-ND	.47	.42	.28	87439-1000
11	17.60	15.00	WM2095-ND	.48	.43	.29	87439-1100
12	19.10	16.50	WM2096-ND	.51	.46	.31	87439-1200
13	20.60	18.00	WM2097-ND	.52	.46	.31	87439-1300
14	22.10	19.50	WM2098-ND	.53	.48	.32	87439-1400
15	23.60	21.00	WM2099-ND	.55	.49	.33	87439-1500

Description	Digi-Key Part No.	Pricing 10	100	Molex Part No.
Crimp Terminal 24-28 AWG	WM1112-ND	.56	4.45	87421-0000
Hand Crimp Tool	WM9968-ND	214.65/1		63811-3600
Manual Wire Stripper	WM9969-ND	95.16/1		63817-0000
Blade Replacement Straight	WM9970-ND	37.22/1		63817-0070
Blade Replacement V	WM9971-ND	37.22/1		63817-0071

2mm Sherlock™ Connectors

Fig. 1

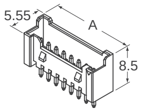

Fig. 2

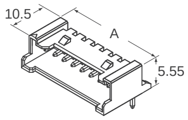

Fig. 3

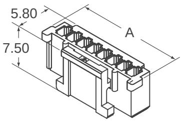

Fig. 4

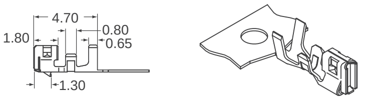

Features:

- Positive locking provides secure mating retention • Four-wall shroud with guide plate protects pins and facilitates mating • Compact low-profile design for space savings • Polarizing end walls prevent mismating

Electrical:

- Voltage: 125V • Current: 2.0A • Contact Resistance: 20mΩ maximum
- Dielectric Withstanding Voltage: 500V • Insulation Resistance: 1000MΩ minimum

Physical:

- Housing: Polyamide, UL 94V-0 • Housing Contact: Brass • Plating: Tin
- Operating Temperature: -40°C ~ 105°C • UL File No.: E29179 • CSA File No.: LR19980

Fig.	Circuits	Dimension (mm) A	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Header - Vertical							
1	2	7.70	WM18920-ND*	.41	.37	.25	35362-0250
	3	9.70	WM18921-ND*	.49	.43	.29	35362-0350
	4	10.30	WM18922-ND*	.53	.47	.32	35362-0450
	5	12.30	WM18923-ND*	.63	.56	.38	35362-0550
	6	14.30	WM18924-ND*	.74	.66	.44	35362-0650
	7	16.30	WM18925-ND*	.76	.67	.45	35362-0750
	8	18.30	WM18926-ND*	.95	.84	.56	35362-0850
	9	20.30	WM18927-ND*	1.01	.90	.60	35362-0950
	10	22.30	WM18928-ND*	1.12	.99	.67	35362-1050
	11	24.30	WM18929-ND*	1.16	1.03	.69	35362-1150
	12	26.30	WM18930-ND*	1.13	1.00	.67	35362-1250
Header - Right Angle							
2	2	7.70	WM18931-ND*	.50	.44	.30	35363-0260
	3	9.70	WM18932-ND*	.54	.48	.32	35363-0360
	4	10.30	WM18933-ND*	.58	.52	.35	35363-0460
	5	12.30	WM18934-ND*	.72	.64	.43	35363-0560
	6	14.30	WM18935-ND*	.73	.65	.44	35363-0660
	7	16.30	WM6043-ND	.87	.77	.51	35363-0710
	7	16.30	WM18936-ND*	.83	.73	.49	35363-0760
	8	18.30	WM18937-ND*	.93	.82	.55	35363-0860
2	9	20.30	WM18938-ND*	1.04	.92	.62	35363-0960
	10	22.30	WM6046-ND	1.13	1.00	.67	35363-1010
	10	22.30	WM18939-ND*	1.08	.96	.64	35363-1060
	11	24.30	WM18940-ND*	1.15	1.02	.68	35363-1160
	12	26.30	WM6048-ND	1.25	1.11	.74	35363-1210
	12	26.30	WM18941-ND*	1.19	1.06	.71	35363-1260
Crimp Housing							
3	2	7.20	WM5981-ND	.25	.22	.15	35507-0200
	3	9.20	WM5982-ND	.28	.25	.17	35507-0300
	4	10.30	WM5983-ND	.31	.27	.18	35507-0400
	5	12.30	WM5984-ND	.33	.30	.20	35507-0500
	6	14.30	WM5985-ND	.36	.32	.21	35507-0600
	7	16.30	WM5986-ND	.38	.34	.23	35507-0700
	8	18.30	WM5987-ND	.41	.37	.25	35507-0800
	9	20.30	WM5988-ND	.43	.38	.26	35507-0900
	10	22.30	WM5989-ND	.44	.39	.26	35507-1000
	11	24.30	WM5990-ND	.46	.41	.27	35507-1100
	12	26.30	WM5991-ND	.48	.43	.29	35507-1200
4	Crimp Terminal, 24-30 AWG Contact: Phosphor Bronze Plating: Tin		WM6050-ND	—	.08	.06	50212-8100
—	Crimp Tool, 24-30 AWG		WM9973-ND	214.65	—	—	63811-1200

*** RoHS Compliant**

2mm Milli-Grid™ Connectors

HEADERS: Electrical: • Current: 2.0A • Dielectric Withstanding Voltage: 500V (Shrouded Vertical, SMT, and Right Angle: 1000V) • Insulation Resistance: 1000MΩ minimum **Physical:** • Housing: 4/6 nylon, UL 94V-0 (Right Angle: Black glass-filled polyester, UL 94V-0) • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -55°C ~ 105°C

RECEPTACLE: Electrical: • Voltage: 125V • Current: 1.0A • Contact Resistance: 25mΩ maximum (Side Entry, Side Entry SMT, and Top/Bottom Entry: 15mΩ maximum) • Dielectric Withstanding Voltage: 500VAC (Top/Bottom Entry: 1000V) • Insulation Resistance: 1000MΩ minimum **Physical:** • Housing: Black glass-filled polyester, UL 94V-0 (Top/Bottom Entry: Black LCP, UL 94V-O, Side Entry and Side Entry SMT: Black nylon, UL 94V-0) • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -55°C ~ 105°C

CRIMP TERMINAL: Electrical: • Voltage: 125V • Current: **26AWG:** 1.5, **28AWG:** 1.0, and **30AWG:** 0.5 • Contact Resistance: 40mΩ maximum **Physical:** • Contact: Phosphor Bronze • Plating: 15µ" Select Gold • Temperature: -40°C ~ 105°C • Wire Range: 26-30AWG • Insulation Range: 1.40mm diameter maximum

CRIMP HOUSING: Physical: • Housing: Black glass-filled polyester, UL 94V-0 • Temperature: -55°C ~ 105°C

Fig. 1 – Vertical

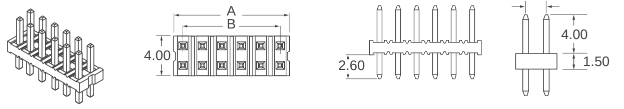

Fig. 2 – Right Angle

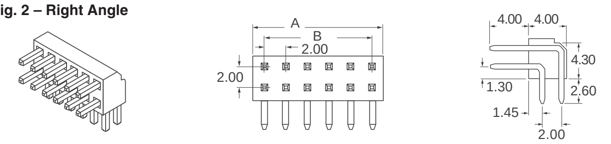

Fig. 3 – Shrouded Vertical

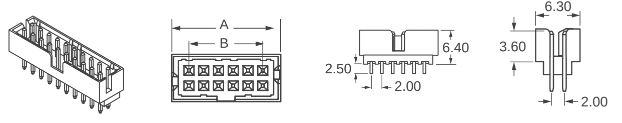

Fig. 4 – Shrouded Right Angle

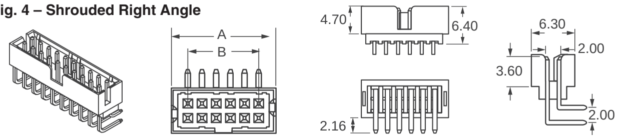

Fig. 5 – Shrouded SMT

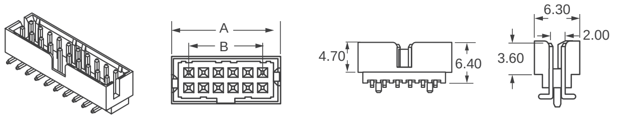

Fig. 6 – Vertical SMT

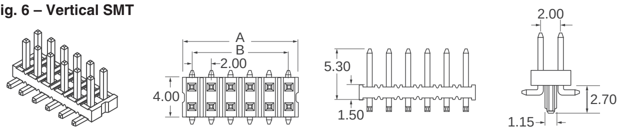

Fig. 7 – Vertical, Dual Row Through-Hole

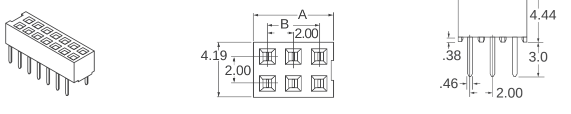

Fig. 8 – Side Entry

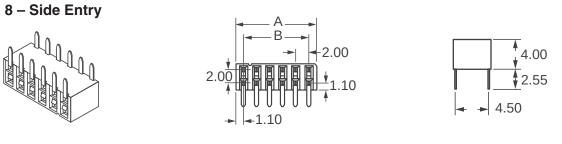

Fig. 9 – Side Entry SMT

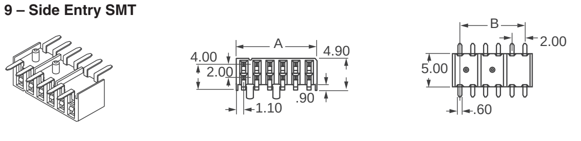

Fig. 10 – Top/Bottom Entry SMT (VLPR2)

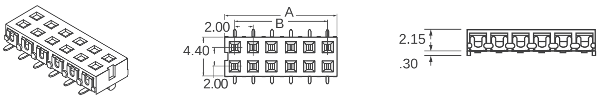

Fig. 11 – Vertical, Dual Row Top/Bottom Entry, SMT

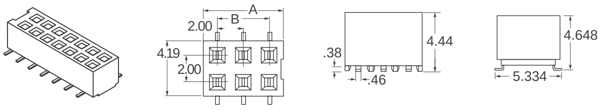

Fig. 12 – Crimp Housing

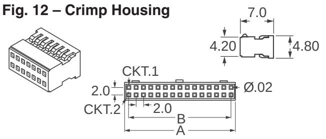

Fig. 13 – Crimp Terminal

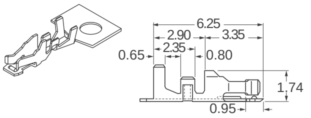

Fig.	Cir-cuits	Dimension (mm)		Digi-Key Part No.	Pricing			Molex Part No.
		A	B		1	10	100	
				Vertical Headers — RoHS Compliant				
1	4	3.90	2.00	WM18833-ND	.66	5.82	38.82	87758-0416
	6	5.90	4.00	WM18834-ND	.89	7.84	52.26	87758-0616
	8	7.90	6.00	WM18835-ND	1.02	9.00	59.97	87758-0816
	10	9.90	8.00	WM18836-ND	1.14	10.04	66.97	87758-1016
	12	11.90	10.00	WM18837-ND	1.37	12.13	80.88	87758-1216
	14	13.90	12.00	WM18838-ND	1.43	12.63	84.19	87758-1416
	16	15.90	14.00	WM18839-ND	1.52	13.45	89.65	87758-1616
	18	17.90	16.00	WM18840-ND	1.72	15.15	100.99	87758-1816
	20	19.90	18.00	WM18841-ND	2.02	17.84	118.91	87758-2016
	22	21.90	20.00	WM18842-ND	2.23	19.68	131.18	87758-2216
	24	23.90	22.00	WM18843-ND	2.30	20.33	135.52	87758-2416
	26	25.90	24.00	WM18844-ND	2.93	25.82	172.15	87758-2616
	28	27.90	26.00	WM18213-ND†	2.56	22.59	150.63	87089-2816
	28	27.90	26.00	WM18845-ND	2.64	23.25	155.03	87758-2816
	30	29.90	28.00	WM18846-ND	2.88	25.39	169.26	87758-3016
	32	31.90	30.00	WM18215-ND†	2.68	23.64	157.57	87089-3216
	32	31.90	30.00	WM18847-ND	2.77	24.45	162.98	87758-3216
	34	33.90	32.00	WM18848-ND	2.83	24.96	166.42	87758-3416
	36	35.90	34.00	WM18217-ND†	2.88	25.40	169.31	87089-3616
	36	35.90	34.00	WM18849-ND	3.00	26.49	176.62	87758-3616
	38	37.90	36.00	WM18218-ND†	3.04	26.83	178.85	87089-3816
	38	37.90	36.00	WM18850-ND	3.17	27.99	186.61	87758-3816
	40	39.90	38.00	WM18851-ND	3.31	29.22	194.78	87758-4016
	42	41.90	40.00	WM18852-ND	3.49	30.81	205.38	87758-4216
	44	43.90	42.00	WM18853-ND	3.87	34.12	227.45	87758-4416
	46	45.90	44.00	WM18854-ND	3.81	33.63	224.19	87758-4616
	48	47.90	46.00	WM18855-ND	3.97	35.06	233.73	87758-4816
	50	49.90	48.00	WM18856-ND	3.95	34.83	232.17	87758-5016
				Right Angle Headers — RoHS Compliant				
2	4	4.00	2.00	WM18612-ND	.69	6.07	40.44	87760-0416
	6	6.00	4.00	WM18613-ND	.73	6.44	42.93	87760-0616
	8	8.00	6.00	WM18614-ND	.93	8.20	54.70	87760-0816
	10	10.00	8.00	WM18615-ND	1.31	11.56	77.06	87760-1016
	12	12.00	10.00	WM18616-ND	1.41	12.43	82.84	87760-1216
	14	14.00	12.00	WM18617-ND	1.48	13.08	87.19	87760-1416
	16	16.00	14.00	WM18618-ND	1.52	13.45	89.65	87760-1616
	18	18.00	16.00	WM18619-ND	1.76	15.54	103.59	87760-1816
	20	20.00	18.00	WM18620-ND	1.82	16.09	107.25	87760-2016
	22	22.00	20.00	WM18621-ND	2.14	18.90	126.01	87760-2216
	24	24.00	22.00	WM18622-ND	2.11	18.58	123.86	87760-2416
	26	26.00	24.00	WM18623-ND	2.51	22.17	147.79	87760-2616
	28	28.00	26.00	WM18624-ND	2.71	23.92	159.45	87760-2816
	30	30.00	28.00	WM18625-ND	2.90	25.57	170.45	87760-3016
	32	32.00	30.00	WM18626-ND	2.82	24.89	165.92	87760-3216
	34	34.00	32.00	WM18627-ND	3.08	27.20	181.37	87760-3416
	36	36.00	34.00	WM18628-ND	3.15	27.77	185.16	87760-3616
	38	38.00	36.00	WM18629-ND	3.31	29.17	194.46	87760-3816
	40	40.00	38.00	WM18630-ND	3.38	29.80	198.67	87760-4016
	42	42.00	40.00	WM18631-ND	3.36	29.67	197.77	87760-4216

† = Leaded *CT = Cut Tape ‡TR = Tape and Reel

(Continued)

Fig.	Cir-cuits	Dimension (mm)		Digi-Key Part No.	Pricing			Molex Part No.
		A	B		1	10	100	
2	44	44.00	42.00	WM18632-ND	3.44	30.38	202.51	87760-4416
	46	46.00	44.00	WM18633-ND	3.59	31.68	211.21	87760-4616
	48	48.00	46.00	WM18634-ND	3.67	32.35	215.68	87760-4816
	50	50.00	48.00	WM18635-ND	3.22	28.38	189.21	87760-5016
Shrouded Vertical Headers — RoHS Compliant								
3	4	6.65	2.00	WM18557-ND	1.04	9.14	60.95	87831-0420
	6	8.65	4.00	WM18558-ND	1.14	10.03	66.86	87831-0620
	8	10.65	6.00	WM18559-ND	1.18	10.42	69.46	87831-0820
	10	12.65	8.00	WM18560-ND	1.21	10.70	71.37	87831-1020
	12	14.65	10.00	WM18561-ND	1.46	12.84	85.60	87831-1220
	14	16.65	12.00	WM17469-ND	1.70	15.03	100.17	87831-1420
	16	18.65	14.00	WM18562-ND	1.83	16.16	107.75	87831-1620
	18	20.65	16.00	WM18563-ND	2.55	22.47	149.81	87831-1820
	20	22.65	18.00	WM18564-ND	2.43	21.43	142.89	87831-2020
	22	24.65	20.00	WM18586-ND	2.55	22.53	150.20	87831-2220
	24	26.65	22.00	WM17470-ND	2.92	25.77	171.83	87831-2420
	30	32.65	28.00	WM18565-ND	3.65	32.18	214.55	87831-3020
	40	42.65	38.00	WM18566-ND	4.88	43.03	286.84	87831-4020
	44	46.65	42.00	WM18567-ND	5.36	47.32	315.48	87831-4420
	50	52.65	48.00	WM18568-ND	6.09	53.75	358.33	87831-5020
Shrouded Right Angle Headers — RoHS Compliant								
4	4	6.65	2.00	WM18858-ND	1.13	9.95	66.36	87833-0420
	6	8.65	4.00	WM18859-ND	1.27	11.21	74.70	87833-0620
	8	10.65	6.00	WM18860-ND	1.31	11.52	76.77	87833-0820
	10	12.65	8.00	WM18861-ND	1.35	11.88	79.21	87833-1020
	12	14.65	10.00	WM18862-ND	1.62	14.25	95.00	87833-1220
	14	16.65	12.00	WM18863-ND	1.89	16.68	111.17	87833-1420
	16	18.65	14.00	WM18864-ND	2.16	19.04	126.91	87833-1620
	18	20.65	16.00	WM18865-ND	2.57	22.66	151.08	87833-1820
	20	22.65	18.00	WM18866-ND	2.70	23.78	158.55	87833-2020
	22	24.65	20.00	WM18867-ND	2.83	25.00	166.66	87833-2220
	24	26.65	22.00	WM18868-ND	3.24	28.59	190.59	87833-2420
	30	32.65	28.00	WM18869-ND	4.05	35.71	238.05	87833-3020
	40	42.65	38.00	WM18870-ND	5.23	46.11	307.40	87833-4020
	44	46.65	42.00	WM18101-ND†	5.40	47.68	317.84	87333-4420
	44	46.65	42.00	WM18871-ND	5.67	50.05	333.64	87833-4420
	50	52.65	48.00	WM18872-ND	6.45	56.92	379.45	87833-5020
Shrouded SMT Headers — RoHS Compliant								
5	4	6.65	2.00	WM18636-ND	1.45	12.83	85.54	87832-0420
	6	8.65	4.00	WM18637-ND	1.74	15.32	102.13	87832-0620
	8	10.65	6.00	WM18638-ND	1.90	16.74	111.62	87832-0820
	10	12.65	8.00	WM18639-ND	1.94	17.11	114.06	87832-1020
	12	14.65	10.00	WM18640-ND	2.17	19.13	127.52	87832-1220
	14	16.65	12.00	WM18641-ND	2.34	20.67	137.80	87832-1420
	16	18.65	14.00	WM18642-ND	2.57	22.68	151.21	87832-1620
	18	20.65	16.00	WM18643-ND	3.05	26.87	179.14	87832-1820
	20	22.65	18.00	WM18644-ND	2.95	26.01	173.42	87832-2020
	22	24.65	20.00	WM18645-ND	3.56	31.43	209.56	87832-2220
	24	26.65	22.00	WM18646-ND	3.62	31.94	212.90	87832-2420
	30	32.65	28.00	WM18647-ND	4.33	38.18	254.51	87832-3020
	40	42.65	38.00	WM18648-ND	5.41	47.73	318.21	87832-4020
	44	46.65	42.00	WM18649-ND	5.95	52.49	349.93	87832-4420
	50	52.65	48.00	WM18650-ND	6.76	59.68	397.87	87832-5020
Vertical SMT Headers — RoHS Compliant								
6	4	3.90	2.00	WM18712-ND	.93	8.18	54.56	87759-0414
	6	5.90	4.00	WM18713-ND	1.27	11.24	74.94	87759-0614
	8	7.90	6.00	WM18651-ND	2.39	21.11	140.74	87759-0850
	10	9.90	8.00	WM18652-ND	1.94	17.08	113.87	87759-1050
	12	11.90	10.00	WM18653-ND	2.15	18.98	126.51	87759-1250
	14	13.90	12.00	WM18654-ND	2.31	20.37	135.79	87759-1450
	16	15.90	14.00	WM18655-ND	2.52	22.27	148.45	87759-1650
	18	17.90	16.00	WM18656-ND	2.71	23.89	159.24	87759-1850
	20	19.90	18.00	WM18657-ND	2.87	25.32	168.81	87759-2050
	22	21.90	20.00	WM18658-ND	3.16	27.92	186.16	87759-2250
	24	23.90	22.00	WM18659-ND	3.44	30.33	202.20	87759-2450
	26	25.90	24.00	WM18660-ND	3.73	32.88	219.21	87759-2650
	28	27.90	26.00	WM18661-ND†	4.01	35.41	236.09	87759-2850
	30	29.90	28.00	WM18662-ND	4.09	36.06	240.38	87759-3050
	32	31.90	30.00	WM18663-ND	4.36	38.45	256.34	87759-3250
	34	33.90	32.00	WM18664-ND	4.63	40.86	272.37	87759-3450
	36	35.90	34.00	WM18665-ND	4.90	43.26	288.37	87759-3650
	38	37.90	36.00	WM18666-ND	5.22	46.09	307.30	87759-3850
	40	39.90	38.00	WM18667-ND	11.12	98.16	654.39	87759-4050
	42	41.90	40.00	WM18668-ND	5.42	47.82	318.80	87759-4250
6	44	43.90	42.00	WM18669-ND	5.67	50.07	333.82	87759-4450
	46	45.90	44.00	WM18670-ND	4.64	40.91	272.74	87759-4650
	48	47.90	46.00	WM18671-ND	4.91	43.32	288.82	87759-4850
	50	49.90	48.00	WM18672-ND	6.44	56.86	379.08	87759-5050
Board-to-Board Receptacle ***Vertical, Dual Row Through-Hole — RoHS Compliant***								
7	4	4.19	2.00	WM18673-ND	1.80	15.88	105.90	79107-7001
	6	6.19	4.00	WM18674-ND	2.07	18.28	121.85	79107-7002
	8	8.19	6.00	WM18675-ND	2.25	19.82	132.13	79107-7003
	10	10.19	8.00	WM18676-ND	2.57	22.65	151.00	79107-7004
	12	12.19	10.00	WM18677-ND	2.82	24.88	165.86	79107-7005
	14	14.19	12.00	WM18678-ND	3.00	26.49	176.57	79107-7006
	16	16.19	14.00	WM18679-ND	3.27	28.87	192.44	79107-7007
	18	18.19	16.00	WM18680-ND	3.52	31.02	206.83	79107-7008
	20	20.19	18.00	WM18681-ND	3.70	32.62	217.46	79107-7009
	22	22.19	20.00	WM18682-ND	3.86	34.09	227.24	79107-7010
	24	24.19	22.00	WM18683-ND	4.22	37.20	248.01	79107-7011
	30	30.19	28.00	WM18684-ND	6.26	55.22	368.11	79107-7014
	40	40.19	38.00	WM18685-ND	7.01	61.88	412.55	79107-7019
	44	44.19	42.00	WM18686-ND	7.75	68.38	455.88	79107-7021
	50	50.19	48.00	WM18687-ND	8.81	77.72	518.13	79107-7024
Receptacle — Side Entry — RoHS Compliant								
8	8	8.20	6.00	WM19036-ND	2.37	20.93	139.52	87264-0852
	10	10.20	8.00	WM18137-ND†	2.47	21.83	145.51	87264-1050
	10	10.20	8.00	WM19037-ND	2.47	21.83	145.54	87264-1052
	12	12.20	10.00	WM19038-ND	2.83	24.98	166.50	87264-1252
	14	14.20	12.00	WM18139-ND†	2.99	26.38	175.88	87264-1450
	14	14.20	12.00	WM19039-ND	2.84	25.10	167.32	87264-1452
	16	16.20	14.00	WM19040-ND	3.29	29.01	193.42	87264-1652
	18	18.20	16.00	WM18141-ND†	3.35	29.53	196.84	87264-1850
	18	18.20	16.00	WM19041-ND	3.51	31.01	206.70	87264-1852
	20	20.20	18.00	WM19042-ND	3.75	33.06	220.38	87264-2052
	22	22.20	20.00	WM18143-ND†	3.78	33.37	222.47	87264-2250
	22	22.20	20.00	WM19043-ND	3.97	35.04	233.60	87264-2252
	24	24.20	22.00	WM18144-ND†	4.00	35.33	235.56	87264-2450
	24	24.20	22.00	WM19044-ND	4.20	37.10	247.33	87264-2452
	26	26.20	24.00	WM19045-ND	4.69	41.37	275.79	87264-2652
	28	28.20	26.00	WM18146-ND†	4.68	41.30	275.31	87264-2850
	28	28.20	26.00	WM19046-ND	4.91	43.36	289.06	87264-2852
	30	30.20	28.00	WM18147-ND†	4.90	43.25	288.32	87264-3050
	30	30.20	28.00	WM19047-ND	5.15	45.41	302.74	87264-3052
	32	32.20	30.00	WM19048-ND	5.37	47.41	316.04	87264-3252
	34	34.20	32.00	WM18149-ND†	5.34	47.10	314.00	87264-3450
	34	34.20	32.00	WM19049-ND	5.60	49.45	329.69	87264-3452
	36	36-20	34.00	WM19050-ND	5.83	51.44	342.96	87264-3652
	38	38.20	36.00	WM18151-ND†	5.77	50.95	339.68	87264-3850
	38	38.20	36.00	WM19051-ND	6.06	53.50	356.66	87264-3852
	40	40.20	38.00	WM19052-ND	6.29	55.49	369.91	87264-4052
	42	42.20	40.00	WM18153-ND†	6.20	54.74	364.96	87264-4250
	42	42.20	40.00	WM19053-ND	6.51	57.48	383.19	87264-4252
	44	44.20	42.00	WM19054-ND	6.72	59.29	395.28	87264-4452
	46	46.20	44.00	WM18155-ND†	6.69	58.99	393.29	87264-4650
	46	46.20	44.00	WM19055-ND	7.02	61.95	412.98	87264-4652
	48	48.20	46.00	WM18156-ND†	6.86	60.53	403.52	87264-4850
	48	48.20	46.00	WM19056-ND	7.20	63.56	423.71	87264-4852
	50	50.20	48.00	WM19057-ND	7.34	64.79	431.95	87264-5052
Receptacle — Side Entry SMT — RoHS Compliant								
9	10	10.20	8.00	WM19058-ND	4.02	35.46	236.41	87368-1024
	12	12.20	10.00	WM19059-ND	4.82	42.56	283.74	87368-1224
	14	14.20	12.00	WM18182-ND†	4.84	42.72	284.80	87368-1420
	14	14.20	12.00	WM19060-ND	5.08	44.85	299.03	87368-1424
	16	16.20	14.00	WM19061-ND	5.32	46.91	312.73	87368-1624
	18	18.20	16.00	WM18184-ND†	5.36	47.25	315.01	87368-1820
	18	18.20	16.00	WM19062-ND	5.62	49.61	330.75	87368-1824
	20	20.20	18.00	WM19063-ND	5.76	50.82	338.80	87368-2024
	22	22.20	20.00	WM18186-ND†	5.57	49.15	327.67	87368-2220
	22	22.20	20.00	WM19064-ND	5.85	51.61	344.05	87368-2224
	24	24.20	22.00	WM18187-ND†	6.08	53.68	357.88	87368-2420
	24	24.20	22.00	WM19065-ND	6.39	56.37	375.77	87368-2424
	26	26.20	24.00	WM18188-ND†	6.36	56.15	374.31	87368-2620
	26	26.20	24.00	WM19066-ND	6.68	58.95	393.02	87368-2624
	28	28.20	26.00	WM18189-ND†	6.49	57.30	382.00	87368-2820

† = Leaded *CT = Cut Tape ‡TR = Tape and Reel

(Continued)

Fig.	Cir- cuits	Dimension (mm) A	 B	Digi-Key Part No.	Pricing 1	 10	 100	Molex Part No.
9	28	28.20	26.00	WM19067-ND	6.82	60.17	401.11	87368-2824
	30	30.20	28.00	WM18190-ND†	6.82	60.17	401.16	87368-3020
	30	30.20	28.00	WM19068-ND	7.16	63.18	421.22	87368-3024
	32	32.20	30.00	WM19069-ND	7.52	66.32	442.15	87368-3224
	34	34.20	32.00	WM18192-ND†	7.79	68.77	458.45	87368-3420
	34	34.20	32.00	WM19070-ND	8.18	72.21	481.37	87368-3424
	36	36.20	34.00	WM18193-ND†	8.44	74.50	496.66	87368-3620
	36	36.20	34.00	WM19071-ND	8.87	78.22	521.49	87368-3624
	38	38.20	36.00	WM19072-ND	9.55	84.23	561.51	87368-3824
	40	40.20	38.00	WM18195-ND†	9.09	80.23	534.85	87368-4020
	40	40.20	38.00	WM19073-ND	9.55	84.23	561.51	87368-4024
	42	42.20	40.00	WM18196-ND†	9.74	85.97	573.12	87368-4220
	42	42.20	40.00	WM19074-ND	10.23	90.26	601.76	87368-4224
	44	44.20	42.00	WM19075-ND	10.89	96.09	640.59	87368-4424
	46	46.20	44.00	WM18198-ND†	11.65	102.79	685.29	87368-4620
	46	46.20	44.00	WM19076-ND	12.23	107.93	719.56	87368-4624
	48	48.20	46.00	WM18199-ND†	12.15	107.25	715.00	87368-4820
	48	48.20	46.00	WM19077-ND	12.76	112.61	750.75	87368-4824
	50	50.20	48.00	WM18200-ND†	12.68	111.88	745.84	87368-5020
	50	50.20	48.00	WM19078-ND	13.31	117.47	783.13	87368-5024
Receptacle — Top/Bottom Entry SMT (VLPR2) — RoHS Compliant								
10	4	4.00	2.00	WM18688-ND	1.25	11.00	73.35	87340-0424
	6	6.00	4.00	WM18689-ND	1.69	14.90	99.35	87340-0624
	8	8.00	6.00	WM18690-ND	2.11	18.58	123.89	87340-0824
	10	10.00	8.00	WM18691-ND	2.71	23.91	159.40	87340-1024
	12	12.00	10.00	WM18692-ND	3.25	28.68	191.23	87340-1224
	14	14.00	12.00	WM18693-ND	4.50	39.68	264.55	87340-1424
	16	16.00	14.00	WM18694-ND	4.93	43.51	290.07	87340-1624
	18	18.00	16.00	WM18695-ND	5.35	47.22	314.77	87340-1824
	20	20.00	18.00	WM18696-ND	5.80	51.15	340.98	87340-2024
Board-to-Board Receptacle Vertical, Dual Row Top/Bottom Entry SMT — RoHS Compliant								
11	4	4.19	2.00	WM18697-ND	2.00	17.64	117.63	79109-1001
	6	6.19	4.00	WM18698-ND	2.27	20.05	133.67	79109-1002
	8	8.19	6.00	WM18699-ND	2.54	22.45	149.70	79109-1003
	10	10.19	8.00	WM18700-ND	2.82	24.90	166.02	79109-1004
	12	12.19	10.00	WM18701-ND	3.18	28.03	186.85	79109-1005
	14	14.19	12.00	WM18702-ND	3.30	29.09	193.90	79109-1006
	16	16.19	14.00	WM18703-ND	3.59	31.68	211.23	79109-1007
	18	18.19	16.00	WM18704-ND	3.87	34.15	227.69	79109-1008
	20	20.19	18.00	WM18705-ND	4.06	35.83	238.90	79109-1009

Fig.	Cir- cuits	Dimension (mm) A	 B	Digi-Key Part No.	Pricing 1	 10	 100	Molex Part No.
11	22	22.19	20.00	WM18706-ND	4.25	37.46	249.76	79109-1010
	24	24.19	22.00	WM18707-ND	4.62	40.80	272.02	79109-1011
	30	30.19	28.00	WM18708-ND	5.78	51.02	340.13	79109-1014
	40	40.19	38.00	WM18709-ND	7.74	68.33	455.54	79109-1019
	44	44.19	42.00	WM18710-ND	8.52	75.19	501.25	79109-1021
	50	50.19	48.00	WM18711-ND	8.87	78.28	521.84	79109-1024
Crimp Housing — Standard — RoHS Compliant								
12	4	4.20	2.00	WM18030-ND	.37	3.29	21.92	51110-0450
	6	6.20	4.00	WM18031-ND	.49	4.29	28.59	51110-0650
	8	8.20	6.00	WM18032-ND	.52	4.60	30.69	51110-0850
	10	10.20	8.00	WM18033-ND	.55	4.85	32.36	51110-1050
	12	12.20	10.00	WM18034-ND	.57	5.04	33.60	51110-1250
	14	14.20	12.00	WM18035-ND	.65	5.73	38.19	51110-1450
	16	16.20	14.00	WM18036-ND	.75	6.61	44.10	51110-1650
	18	18.20	16.00	WM18037-ND	.81	7.11	47.41	51110-1850
	20	20.20	18.00	WM18038-ND	.88	7.80	51.97	51110-2050
	22	22.20	20.00	WM18039-ND	.96	8.49	56.61	51110-2250
	24	24.20	22.00	WM18040-ND	1.04	9.18	61.19	51110-2450
	26	26.20	24.00	WM18041-ND	1.11	9.80	65.35	51110-2650
	28	28.20	26.00	WM18042-ND	1.19	10.50	69.99	51110-2850
	30	30.20	28.00	WM18043-ND	1.27	11.19	74.57	51110-3050
Crimp Housing with Polarization Keys — RoHS Compliant								
12	8	8.20	6.00	WM18044-ND	.52	4.60	30.69	51110-0851
	10	10.20	8.00	WM18045-ND	.55	4.85	32.36	51110-1051
	12	12.20	10.00	WM18046-ND	.57	5.04	33.60	51110-1251
	14	14.20	12.00	WM18047-ND	.65	5.73	38.19	51110-1451
	16	16.20	14.00	WM18048-ND	.75	6.61	44.10	51110-1651
	18	18.20	16.00	WM18049-ND	.81	7.11	47.41	51110-1851
	20	20.20	18.00	WM18050-ND	.88	7.80	51.97	51110-2051
	22	22.20	20.00	WM18051-ND	.96	8.49	56.61	51110-2251
	24	24.20	22.00	WM18052-ND	1.04	9.18	61.19	51110-2451
	26	26.20	24.00	WM18053-ND	1.11	9.80	65.35	51110-2651
	28	28.20	26.00	WM18054-ND	1.19	10.50	69.99	51110-2851
	30	30.20	28.00	WM18055-ND	1.27	11.19	74.57	51110-3051
13	Crimp Terminal (24-30 AWG)			WM1128-ND	—	1.57	12.56	50394-8100
				WM1128CT-ND*	—	—	12.56	50394-8051
				WM1128TR-ND‡	450.00/10,000			
—	Hand Tool for 2mm Crimp Contacts			WM18057-ND	214.65	—	—	11-01-0204

† = Leaded   *CT = Cut Tape   ‡TR = Tape and Reel

2.50mm SPOX™ Connectors

FEATURES: • Sizes 2 ~ 15 circuits • Very low profile • Molded-in pull tabs • Friction lock **ELECTRICAL:** • Voltage: 250V • Current: 3A maximum • **Contact Resistance:** 20mΩ maximum • **Dielectric Withstanding Voltage:** 1000VAC/1 minute • **Insulation Resistance:** 1000MΩ minimum **SPECIFICATIONS:** • **Housing:** 6/6 nylon, UL 94V-0 • **Operating Temperature:** -40°C ~ 105°C • **UL File No.:** E29179 • **CAS File No.:** LR19980

Fig. 1

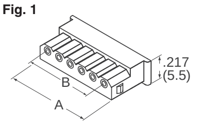

Fig. 2

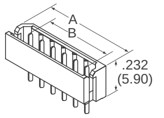

Fig. 3

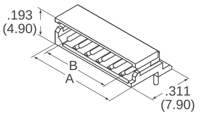

Fig.	Cir- cuits	Dimension (mm) A	 B	Digi-Key Part No.	Price Each 1	 10	 100	Molex Part No.
Crimp Housing								
1	2	5.80	2.50	WM18873-ND	.25	.23	.15	50-37-5023
	3	8.30	5.00	WM18874-ND	.33	.29	.20	50-37-5033
	4	10.80	7.50	WM17405-ND	.49	.43	.29	50-37-5043
	5	13.30	10.00	WM18875-ND	.47	.42	.28	50-37-5053
	6	15.80	12.50	WM18876-ND	.52	.47	.31	50-37-5063
	7	18.30	15.00	WM18877-ND	.59	.53	.35	50-37-5073
	8	20.80	17.50	WM18878-ND	.68	.60	.40	50-37-5083
	9	23.30	20.00	WM18879-ND	.78	.69	.46	50-37-5093
	10	25.80	22.50	WM18880-ND	.81	.72	.48	50-37-5103
	11	28.30	25.00	WM18881-ND	.87	.77	.52	50-37-5113
	12	30.80	27.50	WM18882-ND	.99	.87	.58	50-37-5123
	13	33.30	30.00	WM18883-ND	1.00	.89	.59	50-37-5133
	14	35.80	32.50	WM18884-ND	1.05	.93	.62	50-37-5143
	15	38.30	35.00	WM18885-ND	1.09	.96	.64	50-37-5153
Vertical Fully Shrouded								
2	2	7.40	2.50	WM18886-ND	.64	.57	.38	22-03-5025
	3	9.90	5.00	WM18887-ND	.60	.53	.36	22-03-5035
	4	12.40	7.50	WM18888-ND	.88	.78	.52	22-03-5045
	5	14.90	10.00	WM18889-ND	1.00	.88	.59	22-03-5055

Fig.	Cir- cuits	Dimension (mm) A	 B	Digi-Key Part No.	Price Each 1	 10	 100	Molex Part No.
2	6	17.40	12.50	WM18890-ND	1.12	1.00	.67	22-03-5065
	7	19.90	15.00	WM18891-ND	1.25	1.11	.74	22-03-5075
	8	22.40	17.50	WM18892-ND	1.38	1.22	.82	22-03-5085
	9	24.90	20.00	WM18893-ND	1.51	1.34	.90	22-03-5095
	10	27.40	22.50	WM18894-ND	1.65	1.46	.97	22-03-5105
	11	29.90	25.00	WM18895-ND	1.77	1.57	1.05	22-03-5115
	12	32.40	27.50	WM18896-ND	1.90	1.68	1.12	22-03-5125
	13	34.90	30.00	WM18897-ND	2.02	1.79	1.19	22-03-5135
	14	37.40	32.50	WM18898-ND	2.15	1.90	1.27	22-03-5145
	15	39.90	35.00	WM18899-ND	2.29	2.03	1.35	22-03-5155
Right Angle Fully Shrouded								
3	2	7.40	2.50	WM18900-ND	.71	.63	.42	22-05-7025
	3	9.90	5.00	WM18901-ND	.83	.73	.49	22-05-7035
	4	12.40	7.50	WM18902-ND	.96	.85	.57	22-05-7045
	5	14.90	10.00	WM18903-ND	1.08	.96	.64	22-05-7055
	6	17.40	12.50	WM18904-ND	1.21	1.07	.71	22-05-7065
	7	19.90	15.00	WM18905-ND	1.34	1.18	.79	22-05-7075
	8	22.40	17.50	WM18906-ND	1.46	1.30	.87	22-05-7085
	9	24.90	20.00	WM18907-ND	1.58	1.40	.94	22-05-7095
	10	27.40	22.50	WM18908-ND	1.71	1.51	1.01	22-05-7105
	11	29.90	25.00	WM18909-ND	1.84	1.63	1.09	22-05-7115
	12	32.40	27.50	WM18910-ND	1.96	1.74	1.16	22-05-7125
	13	34.90	30.00	WM18911-ND	2.09	1.85	1.23	22-05-7135
	14	37.40	32.50	WM18912-ND	2.21	1.96	1.31	22-05-7145
	15	39.90	35.00	WM18913-ND	2.33	2.06	1.38	22-05-7155

Description	Digi-Key Part No.	Pricing 1	 10	 100	Molex Part No.
Crimp Terminal 22-28 AWG	WM17406-ND	—	2.59	20.70	08-70-1040
Crimp Terminal 22-28 AWG	WM18889CT-ND	—	—	6.23	08-70-1039
Crimp Terminal 22-28 AWG	WM18889TR-ND	310.00/10,000			08-70-1039
Crimp Hand Tool, 22-28 AWG	WM9980-ND	336.70	—	—	11-01-0194

2mm Connectors

SPECIFICATIONS: **Current Rating:** 1A **Contact Resistance:** 20mΩ maximum **Dielectric Withstanding**: 500VAC **Operating Temperature:** -40°C ~ 105°C **Contact Material**: Headers: Brass, Receptacles: Phosphor Bronze. **Insulator Material:** Polyester, UL 94V-0 **Contact Finish:** Selective Plating, Gold/Tin

Fig. 1

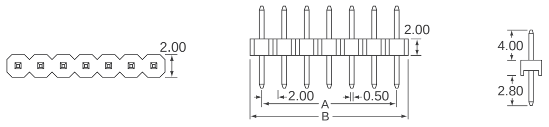

Fig. 2

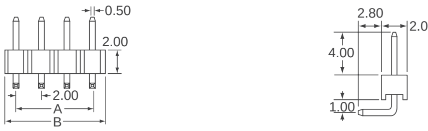

Fig. 3

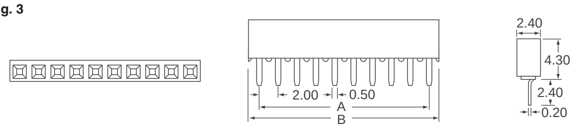

Fig. 4

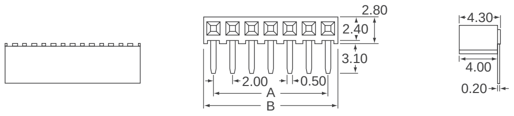

Fig. 5

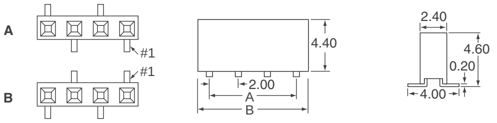

Fig. 6

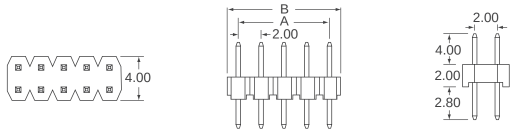

Fig. 7

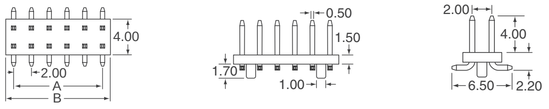

Fig. 8

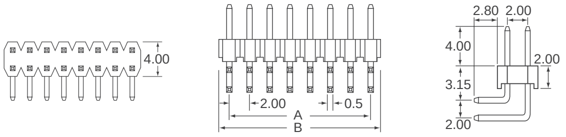

Fig. 9

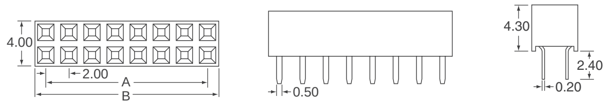

Fig. 10

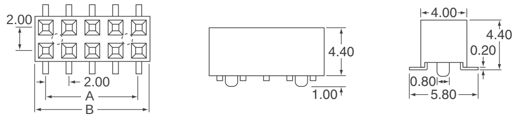

Fig. 11

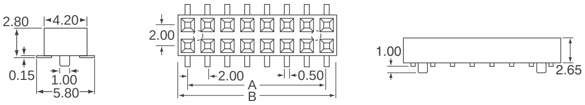

Fig. 12

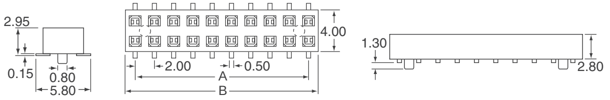

Fig. 13

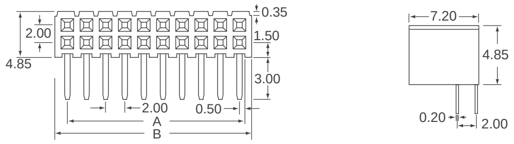

Fig. 14

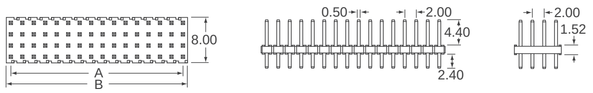

Fig. 15

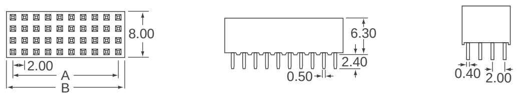

Fig. 16

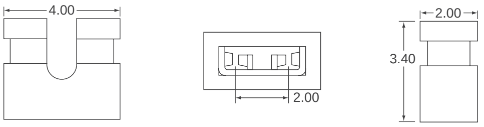

Fig.	Circuits	Dimension (mm) A	Dimension (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Sullins Part No.
				Single Row Headers, Straight — RoHS Compliant				
1	2	2.00	4.00	S5800-02-ND	.39	.34	.29	PRPN021PAEN-RC
	3	4.00	6.00	S5800-03-ND	.41	.36	.31	PRPN031PAEN-RC
	4	6.00	8.00	S5800-04-ND	.43	.38	.32	PRPN041PAEN-RC
	5	8.00	10.00	S5800-05-ND	.45	.39	.33	PRPN051PAEN-RC
	6	10.00	12.00	S5800-06-ND	.47	.41	.35	PRPN061PAEN-RC
	7	12.00	14.00	S5800-07-ND	.49	.43	.36	PRPN071PAEN-RC
	8	14.00	16.00	S5800-08-ND	.51	.45	.38	PRPN081PAEN-RC
	9	16.00	18.00	S5800-09-ND	.53	.46	.39	PRPN091PAEN-RC
	10	18.00	20.00	S5800-10-ND	.55	.48	.41	PRPN101PAEN-RC
	11	20.00	22.00	S5800-11-ND	.57	.50	.42	PRPN111PAEN-RC
	12	22.00	24.00	S5800-12-ND	.59	.52	.44	PRPN121PAEN-RC
	13	24.00	26.00	S5800-13-ND	.61	.53	.45	PRPN131PAEN-RC
	14	26.00	28.00	S5800-14-ND	.63	.55	.47	PRPN141PAEN-RC
	15	28.00	30.00	S5800-15-ND	.65	.57	.48	PRPN151PAEN-RC
	16	30.00	32.00	S5800-16-ND	.67	.59	.50	PRPN161PAEN-RC
	17	32.00	34.00	S5800-17-ND	.69	.60	.51	PRPN171PAEN-RC
	18	34.00	36.00	S5800-18-ND	.71	.62	.53	PRPN181PAEN-RC
	19	36.00	38.00	S5800-19-ND	.73	.64	.54	PRPN191PAEN-RC
	20	38.00	40.00	S5800-20-ND	.75	.65	.55	PRPN201PAEN-RC
	21	40.00	42.00	S5800-21-ND	.77	.67	.57	PRPN211PAEN-RC
	22	42.00	44.00	S5800-22-ND	.79	.69	.58	PRPN221PAEN-RC
	23	44.00	46.00	S5800-23-ND	.81	.71	.60	PRPN231PAEN-RC
	24	46.00	48.00	S5800-24-ND	.83	.72	.61	PRPN241PAEN-RC
	25	48.00	50.00	S5800-25-ND	.85	.74	.63	PRPN251PAEN-RC
	26	50.00	52.00	S5800-26-ND	.87	.76	.64	PRPN261PAEN-RC
	27	52.00	54.00	S5800-27-ND	.89	.78	.66	PRPN271PAEN-RC
	28	54.00	56.00	S5800-28-ND	.91	.79	.67	PRPN281PAEN-RC
	29	56.00	58.00	S5800-29-ND	.93	.81	.69	PRPN291PAEN-RC
	30	58.00	60.00	S5800-30-ND	.95	.83	.70	PRPN301PAEN-RC
	31	60.00	62.00	S5800-31-ND	.97	.85	.72	PRPN311PAEN-RC
	32	62.00	64.00	S5800-32-ND	.99	.86	.73	PRPN321PAEN-RC
	33	64.00	66.00	S5800-33-ND	1.01	.88	.75	PRPN331PAEN-RC
	34	66.00	68.00	S5800-34-ND	1.03	.90	.76	PRPN341PAEN-RC
	35	68.00	70.00	S5800-35-ND	1.05	.91	.77	PRPN351PAEN-RC
	36	70.00	72.00	S5800-36-ND	1.07	.93	.79	PRPN361PAEN-RC
	37	72.00	74.00	S5800-37-ND	1.09	.95	.80	PRPN371PAEN-RC
	38	74.00	76.00	S5800-38-ND	1.11	.97	.82	PRPN381PAEN-RC
	39	76.00	78.00	S5800-39-ND	1.13	.98	.83	PRPN391PAEN-RC
	40	78.00	80.00	S5800-40-ND	1.07	.93	.79	PRPN401PAEN-RC
				Single Row Headers, Right Angle — RoHS Compliant				
2	2	2.00	4.00	S5802-02-ND	.33	.29	.25	PRPN021PARN-RC
	3	4.00	6.00	S5802-03-ND	.36	.32	.27	PRPN031PARN-RC
	4	6.00	8.00	S5802-04-ND	.39	.34	.29	PRPN041PARN-RC
	5	8.00	10.00	S5802-05-ND	.42	.37	.31	PRPN051PARN-RC

(Continued)

Sullins 2mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dimension (mm)		Digi-Key Part No.	Price Each			Sullins Part No.
		A	B		1	10	100	
2	6	10.00	12.00	S5802-06-ND	.45	.39	.33	PRPN061PARN-RC
	7	12.00	14.00	S5802-07-ND	.48	.42	.36	PRPN071PARN-RC
	8	14.00	16.00	S5802-08-ND	.51	.45	.38	PRPN081PARN-RC
	9	16.00	18.00	S5802-09-ND	.54	.47	.40	PRPN091PARN-RC
	10	18.00	20.00	S5802-10-ND	.57	.50	.42	PRPN101PARN-RC
	11	20.00	22.00	S5802-11-ND	.60	.52	.44	PRPN111PARN-RC
	12	22.00	24.00	S5802-12-ND	.63	.55	.47	PRPN121PARN-RC
	13	24.00	26.00	S5802-13-ND	.66	.58	.49	PRPN131PARN-RC
	14	26.00	28.00	S5802-14-ND	.69	.60	.51	PRPN141PARN-RC
	15	28.00	30.00	S5802-15-ND	.72	.63	.53	PRPN151PARN-RC
	16	30.00	32.00	S5802-16-ND	.75	.65	.55	PRPN161PARN-RC
	17	32.00	34.00	S5802-17-ND	.78	.68	.58	PRPN171PARN-RC
	18	34.00	36.00	S5802-18-ND	.81	.71	.60	PRPN181PARN-RC
	19	36.00	38.00	S5802-19-ND	.84	.73	.62	PRPN191PARN-RC
	20	38.00	40.00	S5802-20-ND	.87	.76	.64	PRPN201PARN-RC
	21	40.00	42.00	S5802-21-ND	.90	.78	.66	PRPN211PARN-RC
	22	42.00	44.00	S5802-22-ND	.93	.81	.69	PRPN221PARN-RC
	23	44.00	46.00	S5802-23-ND	.96	.84	.71	PRPN231PARN-RC
	24	46.00	48.00	S5802-24-ND	.99	.86	.73	PRPN241PARN-RC
	25	48.00	50.00	S5802-25-ND	1.02	.89	.75	PRPN251PARN-RC
	26	50.00	52.00	S5802-26-ND	1.05	.91	.77	PRPN261PARN-RC
	27	52.00	54.00	S5802-27-ND	1.08	.94	.80	PRPN271PARN-RC
	28	54.00	56.00	S5802-28-ND	1.11	.97	.82	PRPN281PARN-RC
	29	56.00	58.00	S5802-29-ND	1.14	.99	.84	PRPN291PARN-RC
	30	58.00	60.00	S5802-30-ND	1.17	1.02	.86	PRPN301PARN-RC
	31	60.00	62.00	S5802-31-ND	1.20	1.04	.88	PRPN311PARN-RC
	32	62.00	64.00	S5802-32-ND	1.23	1.07	.91	PRPN321PARN-RC
	33	64.00	66.00	S5802-33-ND	1.26	1.10	.93	PRPN331PARN-RC
	34	66.00	68.00	S5802-34-ND	1.29	1.12	.95	PRPN341PARN-RC
	35	68.00	70.00	S5802-35-ND	1.32	1.15	.97	PRPN351PARN-RC
	36	70.00	72.00	S5802-36-ND	1.35	1.17	.99	PRPN361PARN-RC
	37	72.00	74.00	S5802-37-ND	1.38	1.20	1.02	PRPN371PARN-RC
	38	74.00	76.00	S5802-38-ND	1.41	1.23	1.04	PRPN381PARN-RC
	39	76.00	78.00	S5802-39-ND	1.44	1.25	1.06	PRPN391PARN-RC
	40	78.00	80.00	S5802-40-ND	1.36	1.18	1.00	PRPN401PARN-RC
Single Row Receptacle, Straight								
3	7	12.00	14.50	S2103-07-ND	.70	.58	.37	PPPN071BFCN
Single Row Receptacles, Straight — RoHS Compliant								
3	3	4.00	6.50	S5751-03-ND	.61	.51	.33	PPPN031BFCN-RC
	4	6.00	8.50	S5751-04-ND	.69	.58	.37	PPPN041BFCN-RC
	5	8.00	10.50	S5751-05-ND	.76	.64	.41	PPPN051BFCN-RC
	6	10.00	12.50	S5751-06-ND	.80	.67	.43	PPPN061BFCN-RC
	7	12.00	14.50	S5751-07-ND	.84	.70	.45	PPPN071BFCN-RC
	8	14.00	16.50	S5751-08-ND	.92	.77	.49	PPPN081BFCN-RC
	9	16.00	18.50	S5751-09-ND	.96	.80	.51	PPPN091BFCN-RC
	10	18.00	20.50	S5751-10-ND	.97	.81	.52	PPPN101BFCN-RC
	11	20.00	22.50	S5751-11-ND	1.07	.89	.57	PPPN111BFCN-RC
	12	22.00	24.50	S5751-12-ND	1.17	.97	.62	PPPN121BFCN-RC
	15	28.00	30.50	S5751-15-ND	1.46	1.22	.78	PPPN151BFCN-RC
	18	34.00	36.50	S5751-18-ND	1.75	1.45	.93	PPPN181BFCN-RC
	22	42.00	44.50	S5751-22-ND	2.14	1.77	1.13	PPPN221BFCN-RC
	25	48.00	50.50	S5751-25-ND	2.43	2.02	1.29	PPPN251BFCN-RC
	30	58.00	60.50	S5751-30-ND	2.92	2.42	1.55	PPPN301BFCN-RC
	36	70.00	72.50	S5751-36-ND	3.50	2.90	1.85	PPPN361BFCN-RC
	40	78.00	80.50	S5751-40-ND	3.89	3.22	2.06	PPPN401BFCN-RC
Single Row Receptacles, Right Angle								
4	8	14.00	16.50	S2104-08-ND	1.12	.93	.60	PPPN081FGGN
	9	16.00	18.50	S2104-09-ND	1.16	.96	.62	PPPN091FGGN
	12	22.00	24.50	S2104-12-ND	1.40	1.16	.74	PPPN121FGGN
	17	32.00	34.50	S2104-17-ND	2.00	1.66	1.06	PPPN171FGGN
Single Row Receptacles, Right Angle — RoHS Compliant								
4	3	4.00	6.50	S5752-03-ND	.88	.73	.47	PPPN031FGGN-RC
	4	6.00	8.50	S5752-04-ND	1.01	.84	.54	PPPN041FGGN-RC
	5	8.00	10.50	S5752-05-ND	1.10	.91	.58	PPPN051FGGN-RC
	6	10.00	12.50	S5752-06-ND	1.17	.97	.62	PPPN061FGGN-RC
	7	12.00	14.50	S5752-07-ND	1.22	1.01	.65	PPPN071FGGN-RC
	8	14.00	16.50	S5752-08-ND	1.32	1.10	.70	PPPN081FGGN-RC
	9	16.00	18.50	S5752-09-ND	1.36	1.13	.72	PPPN091FGGN-RC
	10	18.00	20.50	S5752-10-ND	1.39	1.16	.74	PPPN101FGGN-RC
	12	22.00	24.50	S5752-12-ND	1.75	1.45	.93	PPPN121FGGN-RC
	15	28.00	30.50	S5752-15-ND	2.19	1.82	1.16	PPPN151FGGN-RC
	17	32.00	34.50	S5752-17-ND	2.36	1.96	1.25	PPPN171FGGN-RC
Single Row Receptacles, SMD Contacts (Pin 1 on Left Hand Side)								
5A	5	8.00	10.50	S2101-05-ND	.77	.64	.41	PPPN051BFLC
	6	10.00	12.50	S2101-06-ND	.84	.70	.45	PPPN061BFLC
	8	14.00	16.50	S2101-08-ND	1.02	.85	.54	PPPN081BFLC
	9	16.00	18.50	S2101-09-ND	1.09	.90	.58	PPPN091BFLC
	15	28.00	30.50	S2101-15-ND	1.68	1.40	.89	PPPN151BFLC
	18	34.00	36.50	S2101-18-ND	2.03	1.69	1.08	PPPN181BFLC
	25	48.00	50.50	S2101-25-ND	2.80	2.32	1.48	PPPN251BFLC
Single Row Receptacles, SMD Contacts (Pin 1 on Left Hand Side) — RoHS Compliant								
5A	3	4.00	6.50	S5901-03-ND	.71	.59	.38	NPPN031BFLC-RC
	4	6.00	8.50	S5901-04-ND	.88	.73	.47	NPPN041BFLC-RC
	5	8.00	10.50	S5901-05-ND	.95	.79	.51	NPPN051BFLC-RC
	6	10.00	12.50	S5901-06-ND	1.02	.85	.55	NPPN061BFLC-RC
	7	12.00	14.50	S5901-07-ND	1.14	.95	.61	NPPN071BFLC-RC
	8	14.00	16.50	S5901-08-ND	1.25	1.04	.67	NPPN081BFLC-RC
	9	16.00	18.50	S5901-09-ND	1.38	1.15	.74	NPPN091BFLC-RC
5A	10	18.00	20.50	S5901-10-ND	1.39	1.16	.74	NPPN101BFLC-RC
	12	22.00	24.50	S5901-12-ND	1.67	1.38	.89	NPPN121BFLC-RC
	15	28.00	30.50	S5901-15-ND	2.08	1.73	1.10	NPPN151BFLC-RC
	18	34.00	36.50	S5901-18-ND	2.50	2.07	1.32	NPPN181BFLC-RC
	20	38.00	40.50	S5901-20-ND	2.78	2.31	1.47	NPPN201BFLC-RC
	22	42.00	44.50	S5901-22-ND	3.06	2.54	1.62	NPPN221BFLC-RC
	25	48.00	50.50	S5901-25-ND	3.47	2.88	1.84	NPPN251BFLC-RC
Single Row Receptacles, SMD Contacts (Pin 1 on Right Hand Side)								
5B	5	8.00	10.50	S2102-05-ND	.77	.64	.41	PPPN051BFLD
	7	12.00	14.50	S2102-07-ND	.91	.76	.49	PPPN071BFLD
	8	14.00	16.50	S2102-08-ND	1.02	.85	.54	PPPN081BFLD
	9	16.00	18.50	S2102-09-ND	1.09	.90	.58	PPPN091BFLD
	12	22.00	24.50	S2102-12-ND	1.33	1.11	.71	PPPN121BFLD
	13	24.00	26.50	S2102-13-ND	1.47	1.22	.78	PPPN131BFLD
	15	28.00	30.50	S2102-15-ND	1.68	1.40	.89	PPPN151BFLD
	20	38.00	40.50	S2102-20-ND	2.24	1.86	1.19	PPPN201BFLD
	25	48.00	50.50	S2102-25-ND	2.80	2.32	1.48	PPPN251BFLD
Single Row Receptacles, SMD Contacts (Pin 1 on Right Hand Side) — RoHS Compliant								
5B	3	4.00	6.50	S5902-03-ND	.71	.59	.38	NPPN031BFLD-RC
	4	6.00	8.50	S5902-04-ND	.88	.73	.47	NPPN041BFLD-RC
	5	8.00	10.50	S5902-05-ND	.95	.79	.51	NPPN051BFLD-RC
	6	10.00	12.50	S5902-06-ND	1.02	.85	.55	NPPN061BFLD-RC
	7	12.00	14.50	S5902-07-ND	1.14	.95	.61	NPPN071BFLD-RC
	8	14.00	16.50	S5902-08-ND	1.25	1.04	.67	NPPN081BFLD-RC
	9	16.00	18.50	S5902-09-ND	1.33	1.11	.71	NPPN091BFLD-RC
	10	18.00	20.50	S5902-10-ND	1.39	1.16	.74	NPPN101BFLD-RC
	12	22.00	24.50	S5902-12-ND	1.67	1.38	.89	NPPN121BFLD-RC
	13	24.00	26.50	S5902-13-ND	1.80	1.50	.96	NPPN131BFLD-RC
	15	28.00	30.50	S5902-15-ND	2.08	1.73	1.10	NPPN151BFLD-RC
	18	34.00	36.50	S5902-18-ND	2.50	2.07	1.32	NPPN181BFLD-RC
	20	38.00	40.50	S5902-20-ND	2.78	2.31	1.47	NPPN201BFLD-RC
	22	42.00	44.50	S5902-22-ND	3.06	2.54	1.62	NPPN221BFLD-RC
	25	48.00	50.50	S5902-25-ND	3.47	2.88	1.84	NPPN251BFLD-RC
Dual Row Headers, Straight — RoHS Compliant								
6	4	2.00	4.00	S5801-02-ND	.75	.65	.55	PRPN022PAEN-RC
	6	4.00	6.00	S5801-03-ND	.79	.69	.58	PRPN032PAEN-RC
	8	6.00	8.00	S5801-04-ND	.83	.72	.61	PRPN042PAEN-RC
	10	8.00	10.00	S5801-05-ND	.87	.76	.64	PRPN052PAEN-RC
	12	10.00	12.00	S5801-06-ND	.91	.79	.67	PRPN062PAEN-RC
	14	12.00	14.00	S5801-07-ND	.95	.83	.70	PRPN072PAEN-RC
	16	14.00	16.00	S5801-08-ND	.99	.86	.73	PRPN082PAEN-RC
	18	16.00	18.00	S5801-09-ND	1.03	.90	.76	PRPN092PAEN-RC
	20	18.00	20.00	S5801-10-ND	1.07	.93	.79	PRPN102PAEN-RC
	22	20.00	22.00	S5801-11-ND	1.11	.97	.82	PRPN112PAEN-RC
	24	22.00	24.00	S5801-12-ND	1.15	1.00	.85	PRPN122PAEN-RC
	26	24.00	26.00	S5801-13-ND	1.19	1.04	.88	PRPN132PAEN-RC
	28	26.00	28.00	S5801-14-ND	1.23	1.07	.91	PRPN142PAEN-RC
	30	28.00	30.00	S5801-15-ND	1.27	1.11	.94	PRPN152PAEN-RC
	32	30.00	32.00	S5801-16-ND	1.31	1.14	.97	PRPN162PAEN-RC
	36	34.00	36.00	S5801-18-ND	1.39	1.21	1.02	PRPN182PAEN-RC
	38	36.00	38.00	S5801-19-ND	1.43	1.24	1.05	PRPN192PAEN-RC
	40	38.00	40.00	S5801-20-ND	1.47	1.28	1.08	PRPN202PAEN-RC
	42	40.00	42.00	S5801-21-ND	1.51	1.31	1.11	PRPN212PAEN-RC
	44	42.00	44.00	S5801-22-ND	1.55	1.35	1.14	PRPN222PAEN-RC
	46	44.00	46.00	S5801-23-ND	1.59	1.38	1.17	PRPN232PAEN-RC
	48	46.00	48.00	S5801-24-ND	1.63	1.42	1.20	PRPN242PAEN-RC
	50	48.00	50.00	S5801-25-ND	1.67	1.45	1.23	PRPN252PAEN-RC
	60	58.00	60.00	S5801-30-ND	1.87	1.63	1.38	PRPN302PAEN-RC
	72	70.00	72.00	S5801-36-ND	2.11	1.83	1.55	PRPN362PAEN-RC
	80	78.00	80.00	S5801-40-ND	2.10	1.82	1.54	PRPN402PAEN-RC
Dual Row Headers, SMD, with Locating Peg								
7	14	12.00	14.00	S2208-07-ND	1.68	1.40	.89	PRPN072MAMP
	16	14.00	16.00	S2208-08-ND	1.79	1.48	.95	PRPN082MAMP
	24	22.00	24.00	S2208-12-ND	2.35	1.95	1.24	PRPN122MAMP
	30	28.00	30.00	S2208-15-ND	2.91	2.41	1.54	PRPN152MAMP
	50	48.00	50.00	S2208-25-ND	4.87	4.04	2.58	PRPN252MAMP
Dual Row Headers, SMD, with Locating Peg — RoHS Compliant								
7	4	2.00	4.00	S6008-02-ND	.73	.61	.39	NRPN022MAMP-RC
	6	4.00	6.00	S6008-03-ND	1.09	.90	.58	NRPN032MAMP-RC
	8	6.00	8.00	S6008-04-ND	1.36	1.13	.72	NRPN042MAMP-RC
	10	8.00	10.00	S6008-05-ND	1.61	1.34	.86	NRPN052MAMP-RC
	12	10.00	12.00	S6008-06-ND	1.80	1.50	.96	NRPN062MAMP-RC
	14	12.00	14.00	S6008-07-ND	2.09	1.74	1.11	NRPN072MAMP-RC
	16	14.00	16.00	S6008-08-ND	2.19	1.82	1.16	NRPN082MAMP-RC
	18	16.00	18.00	S6008-09-ND	2.30	1.91	1.22	NRPN092MAMP-RC
	20	18.00	20.00	S6008-10-ND	2.41	2.00	1.28	NRPN102MAMP-RC
	24	22.00	24.00	S6008-12-ND	2.89	2.40	1.53	NRPN122MAMP-RC
	30	28.00	30.00	S6008-15-ND	3.62	3.00	1.92	NRPN152MAMP-RC
	36	34.00	36.00	S6008-18-ND	4.34	3.60	2.30	NRPN182MAMP-RC
	44	42.00	44.00	S6008-22-ND	5.30	4.40	2.81	NRPN222MAMP-RC
	50	48.00	50.00	S6008-25-ND	6.03	5.00	3.19	NRPN252MAMP-RC
Dual Row Headers, SMD, without Locating Peg								
7	18	16.00	18.00	S2209-09-ND	1.86	1.54	.99	PRPN092MAMS
	20	18.00	20.00	S2209-10-ND	1.96	1.63	1.04	PRPN102MAMS
	26	24.00	26.00	S2209-13-ND	2.52	2.09	1.34	PRPN132MAMS
	28	26.00	28.00	S2209-14-ND	2.73	2.27	1.45	PRPN142MAMS
	32	30.00	32.00	S2209-16-ND	3.12	2.59	1.65	PRPN162MAMS
	34	32.00	34.00	S2209-17-ND	3.33	2.76	1.76	PRPN172MAMS
	36	34.00	36.00	S2209-18-ND	3.50	2.90	1.85	PRPN182MAMS
	38	36.00	38.00	S2209-19-ND	3.71	3.08	1.97	PRPN192MAMS
	42	40.00	42.00	S2209-21-ND	4.10	3.40	2.17	PRPN212MAMS
	48	46.00	48.00	S2209-24-ND	4.69	3.89	2.48	PRPN242MAMS

(Continued)

Sullins 2mm Connectors *(Cont.)*

Fig.	Circuits	Dimension (mm)		Digi-Key	Price Each			Sullins
		A	B	Part No.	1	10	100	Part No.
Dual Row Headers, SMD, without Locating Peg — RoHS Compliant								
7	4	2.00	4.00	S6009-02-ND	.73	.61	.39	NRPN022MAMS-RC
	6	4.00	6.00	S6009-03-ND	1.09	.90	.58	NRPN032MAMS-RC
	8	6.00	8.00	S6009-04-ND	1.36	1.13	.72	NRPN042MAMS-RC
	10	8.00	10.00	S6009-05-ND	1.61	1.34	.86	NRPN052MAMS-RC
	12	10.00	12.00	S6009-06-ND	1.80	1.50	.96	NRPN062MAMS-RC
	14	12.00	14.00	S6009-07-ND	2.09	1.74	1.11	NRPN072MAMS-RC
	16	14.00	16.00	S6009-08-ND	2.19	1.82	1.16	NRPN082MAMS-RC
	18	16.00	18.00	S6009-09-ND	2.30	1.91	1.22	NRPN092MAMS-RC
	20	18.00	20.00	S6009-10-ND	2.41	2.00	1.28	NRPN102MAMS-RC
	22	20.00	22.00	S6009-11-ND	2.65	2.20	1.41	NRPN112MAMS-RC
	24	22.00	24.00	S6009-12-ND	2.89	2.40	1.53	NRPN122MAMS-RC
	26	24.00	26.00	S6009-13-ND	3.13	2.60	1.66	NRPN132MAMS-RC
	28	26.00	28.00	S6009-14-ND	3.38	2.80	1.79	NRPN142MAMS-RC
	30	28.00	30.00	S6009-15-ND	3.62	3.00	1.92	NRPN152MAMS-RC
	32	30.00	32.00	S6009-16-ND	3.86	3.20	2.04	NRPN162MAMS-RC
	34	32.00	34.00	S6009-17-ND	4.10	3.40	2.17	NRPN172MAMS-RC
	36	34.00	36.00	S6009-18-ND	4.34	3.60	2.30	NRPN182MAMS-RC
	38	36.00	38.00	S6009-19-ND	4.59	3.80	2.43	NRPN192MAMS-RC
	40	38.00	40.00	S6009-20-ND	4.82	4.00	2.55	NRPN202MAMS-RC
	42	40.00	42.00	S6009-21-ND	5.06	4.20	2.68	NRPN212MAMS-RC
	44	42.00	44.00	S6009-22-ND	5.30	4.40	2.81	NRPN222MAMS-RC
	46	44.00	46.00	S6009-23-ND	5.54	4.60	2.93	NRPN232MAMS-RC
	48	46.00	48.00	S6009-24-ND	5.78	4.80	3.06	NRPN242MAMS-RC
	50	48.00	50.00	S6009-25-ND	6.03	5.00	3.19	NRPN252MAMS-RC
Dual Row Headers, Right Angle								
8	22	20.00	22.00	S2200-11-ND	1.53	1.33	1.13	PRPN112PARN
	80	78.00	80.00	S2200-40-ND	3.03	2.63	2.23	PRPN402PARN
Dual Row Headers, Right Angle — RoHS Compliant								
8	4	2.00	4.00	S5803-02-ND	1.15	1.00	.85	PRPN022PARN-RC
	6	4.00	6.00	S5803-03-ND	1.21	1.05	.89	PRPN032PARN-RC
	8	6.00	8.00	S5803-04-ND	1.27	1.11	.94	PRPN042PARN-RC
	10	8.00	10.00	S5803-05-ND	1.33	1.16	.98	PRPN052PARN-RC
	12	10.00	12.00	S5803-06-ND	1.39	1.21	1.02	PRPN062PARN-RC
	14	12.00	14.00	S5803-07-ND	1.45	1.26	1.07	PRPN072PARN-RC
	16	14.00	16.00	S5803-08-ND	1.51	1.31	1.11	PRPN082PARN-RC
	18	16.00	18.00	S5803-09-ND	1.57	1.37	1.16	PRPN092PARN-RC
	20	18.00	20.00	S5803-10-ND	1.63	1.42	1.20	PRPN102PARN-RC
	22	20.00	22.00	S5803-11-ND	1.69	1.47	1.24	PRPN112PARN-RC
	24	22.00	24.00	S5803-12-ND	1.75	1.52	1.29	PRPN122PARN-RC
	26	24.00	26.00	S5803-13-ND	1.81	1.57	1.33	PRPN132PARN-RC
	28	26.00	28.00	S5803-14-ND	1.87	1.63	1.38	PRPN142PARN-RC
	30	28.00	30.00	S5803-15-ND	1.93	1.68	1.42	PRPN152PARN-RC
	32	30.00	32.00	S5803-16-ND	1.99	1.73	1.46	PRPN162PARN-RC
	34	32.00	34.00	S5803-17-ND	2.05	1.78	1.51	PRPN172PARN-RC
	36	34.00	36.00	S5803-18-ND	2.11	1.83	1.55	PRPN182PARN-RC
	38	36.00	38.00	S5803-19-ND	2.17	1.89	1.60	PRPN192PARN-RC
	40	38.00	40.00	S5803-20-ND	2.23	1.94	1.64	PRPN202PARN-RC
	42	40.00	42.00	S5803-21-ND	2.29	1.99	1.68	PRPN212PARN-RC
	44	42.00	44.00	S5803-22-ND	2.35	2.04	1.73	PRPN222PARN-RC
	46	44.00	46.00	S5803-23-ND	2.41	2.09	1.77	PRPN232PARN-RC
	48	46.00	48. 00	S5803-24-ND	2.47	2.15	1.82	PRPN242PARN-RC
	50	48.00	50.00	S5803-25-ND	2.53	2.20	1.86	PRPN252PARN-RC
	60	58.00	60.00	S5803-30-ND	2.83	2.46	2.08	PRPN302PARN-RC
	80	78.00	80.00	S5803-40-ND	3.18	2.76	2.34	PRPN402PARN-RC
Dual Row Receptacles, Straight								
9	12	10.00	12.50	S2201-06-ND	1.26	1.05	.67	PPPN062AFCN
	26	24.00	26.50	S2201-13-ND	2.10	1.74	1.11	PPPN132AFCN
	30	28.00	30.50	S2201-15-ND	2.45	2.03	1.30	PPPN152AFCN
	50	48.00	50.50	S2201-25-ND	3.75	3.11	1.98	PPPN252AFCN
Dual Row Receptacles, Straight — RoHS Compliant								
9	4	2.00	4.50	S5750-02-ND	.81	.67	.43	PPPN022AFCN-RC
	6	4.00	6.50	S5750-03-ND	1.04	.87	.56	PPPN032AFCN-RC
	8	6.00	8.50	S5750-04-ND	1.32	1.10	.70	PPPN042AFCN-RC
	10	8.00	10.50	S5750-05-ND	1.39	1.16	.74	PPPN052AFCN-RC
	12	10.00	12.50	S5750-06-ND	1.50	1.25	.80	PPPN062AFCN-RC
	14	12.00	14.50	S5750-07-ND	1.60	1.33	.85	PPPN072AFCN-RC
	16	14.00	16.50	S5750-08-ND	1.82	1.52	.97	PPPN082AFCN-RC
	18	16.00	18.50	S5750-09-ND	1.84	1.53	.98	PPPN092AFCN-RC
	20	18.00	20.50	S5750-10-ND	1.91	1.59	1.01	PPPN102AFCN-RC
	22	20.00	22.50	S5750-11-ND	2.10	1.74	1.11	PPPN112AFCN-RC
	24	22.00	24.50	S5750-12-ND	2.29	1.90	1.22	PPPN122AFCN-RC
	26	24.00	26.50	S5750-13-ND	2.35	1.95	1.24	PPPN132AFCN-RC
	30	28.00	30.50	S5750-15-ND	3.01	2.50	1.60	PPPN152AFCN-RC
	34	32.00	34.50	S5750-17-ND	3.24	2.69	1.72	PPPN172AFCN-RC
	40	38.00	40.50	S5750-20-ND	3.52	2.92	1.86	PPPN202AFCN-RC
	44	42.00	44.50	S5750-22-ND	3.87	3.21	2.05	PPPN222AFCN-RC
	50	48.00	50.50	S5750-25-ND	4.39	3.64	2.33	PPPN252AFCN-RC
	60	58.00	60.50	S5750-30-ND	5.27	4.37	2.79	PPPN302AFCN-RC
	80	78.00	80.50	S5750-40-ND	7.03	5.83	3.72	PPPN402AFCN-RC
Dual Row Receptacles, SMD, without Locating Peg								
10	18	16.00	18.00	S2202-09-ND	2.14	1.77	1.13	PPPN092FFKS
	24	22.00	24.00	S2202-12-ND	2.70	2.24	1.43	PPPN122FFKS
	40	38.00	40.00	S2202-20-ND	4.48	3.72	2.37	PPPN202FFKS
	44	42.00	44.00	S2202-22-ND	4.94	4.09	2.61	PPPN222FFKS
	60	58.00	60.00	S2202-30-ND	6.72	5.57	3.56	PPPN302FFKS
Dual Row Receptacles, SMD, without Locating Peg — RoHS Compliant								
10	4	2.00	4.00	S6010-02-ND	.81	.67	.43	NPPN022FFKS-RC
	6	4.00	6.00	S6010-03-ND	1.21	1.01	.64	NPPN032FFKS-RC
10	8	6.00	8.00	S6010-04-ND	1.36	1.13	.72	NPPN042FFKS-RC
	10	8.00	10.00	S6010-05-ND	1.61	1.34	.86	NPPN052FFKS-RC
	12	10.00	12.00	S6010-06-ND	1.80	1.50	.96	NPPN062FFKS-RC
	14	12.00	14.00	S6010-07-ND	2.09	1.74	1.11	NPPN072FFKS-RC
	16	14.00	16.00	S6010-08-ND	2.34	1.94	1.24	NPPN082FFKS-RC
	18	16.00	18.00	S6010-09-ND	2.63	2.19	1.40	NPPN092FFKS-RC
	20	18.00	20.00	S6010-10-ND	2.78	2.31	1.47	NPPN102FFKS-RC
	24	22.00	24.00	S6010-12-ND	3.33	2.77	1.77	NPPN122FFKS-RC
	26	24.00	26.00	S6010-13-ND	3.61	2.99	1.91	NPPN132FFKS-RC
	30	28.00	30.00	S6010-15-ND	4.16	3.45	2.20	NPPN152FFKS-RC
	40	38.00	40.00	S6010-20-ND	5.55	4.60	2.94	NPPN202FFKS-RC
	44	42.00	44.00	S6010-22-ND	6.10	5.06	3.23	NPPN222FFKS-RC
	50	48.00	50.00	S6010-25-ND	6.94	5.76	3.67	NPPN252FFKS-RC
	60	58.00	60.00	S6010-30-ND	8.33	6.91	4.41	NPPN302FFKS-RC
Dual Row Receptacles, SMD, with Locating Peg								
10	6	4.00	6.00	S2203-03-ND	.98	.82	.52	PPPN032FFKP
	44	42.00	44.00	S2203-22-ND	4.94	4.09	2.61	PPPN222FFKP
Dual Row Receptacles, SMD, with Locating Peg — RoHS Compliant								
10	4	2.00	4.00	S6011-02-ND	.81	.67	.43	NPPN022FFKP-RC
	6	4.00	6.00	S6011-03-ND	1.21	1.01	.64	NPPN032FFKP-RC
	8	6.00	8.00	S6011-04-ND	1.36	1.13	.72	NPPN042FFKP-RC
	10	8.00	10.00	S6011-05-ND	1.61	1.34	.86	NPPN052FFKP-RC
	12	10.00	12.00	S6011-06-ND	1.80	1.50	.96	NPPN062FFKP-RC
	14	12.00	14.00	S6011-07-ND	2.09	1.74	1.11	NPPN072FFKP-RC
	16	14.00	16.00	S6011-08-ND	2.34	1.94	1.24	NPPN082FFKP-RC
	18	16.00	18.00	S6011-09-ND	2.63	2.19	1.40	NPPN092FFKP-RC
	24	22.00	24.00	S6011-12-ND	3.33	2.77	1.77	NPPN122FFKP-RC
	30	28.00	30.00	S6011-15-ND	4.16	3.45	2.20	NPPN152FFKP-RC
	44	42.00	44.00	S6011-22-ND	6.10	5.06	3.23	NPPN222FFKP-RC
	50	48.00	50.00	S6011-25-ND	6.94	5.76	3.67	NPPN252FFKP-RC
	60	58.00	60.00	S6011-30-ND	8.33	6.91	4.41	NPPN302FFKP-RC
Dual Row Receptacles (Bottom Entry), SMD, with Locating Peg								
11	10	8.00	10.00	S2205-05-ND	1.82	1.51	.97	PPPN052GHNP
	18	16.00	18.00	S2205-09-ND	2.56	2.12	1.36	PPPN092GHNP
	30	28.00	30.00	S2205-15-ND	3.89	3.22	2.06	PPPN152GHNP
	36	34.00	36.00	S2205-18-ND	4.69	3.89	2.48	PPPN182GHNP
	44	42.00	44.00	S2205-22-ND	5.71	4.73	3.02	PPPN222GHNP
	56	54.00	56.00	S2205-28-ND	7.11	5.89	3.76	PPPN282GHNP
	60	58.00	60.00	S2205-30-ND	7.63	6.33	4.04	PPPN302GHNP
Dual Row Receptacles (Bottom Entry), SMD, with Locating Peg — RoHS Compliant								
11	10	8.00	10.00	S6012-05-ND	2.25	1.87	1.19	NPPN052GHNP-RC
	12	10.00	12.00	S6012-06-ND	2.61	2.17	1.39	NPPN062GHNP-RC
	14	12.00	14.00	S6012-07-ND	2.94	2.44	1.56	NPPN072GHNP-RC
	16	14.00	16.00	S6012-08-ND	3.07	2.54	1.63	NPPN082GHNP-RC
	18	16.00	18.00	S6012-09-ND	3.14	2.61	1.66	NPPN092GHNP-RC
	20	18.00	20.00	S6012-10-ND	3.21	2.67	1.70	NPPN102GHNP-RC
	24	22.00	24.00	S6012-12-ND	3.86	3.20	2.04	NPPN122GHNP-RC
	26	24.00	26.00	S6012-13-ND	4.18	3.47	2.21	NPPN132GHNP-RC
	30	28.00	30.00	S6012-15-ND	4.82	4.00	2.55	NPPN152GHNP-RC
	36	34.00	36.00	S6012-18-ND	5.78	4.80	3.06	NPPN182GHNP-RC
	44	42.00	44.00	S6012-22-ND	7.07	5.86	3.74	NPPN222GHNP-RC
	56	54.00	56.00	S6012-28-ND	8.79	7.29	4.65	NPPN282GHNP-RC
	60	58.00	60.00	S6012-30-ND	9.43	7.81	4.99	NPPN302GHNP-RC
Dual Row Receptacles (Top Entry Low Profile), SMD, with Locating Peg								
12	10	8.00	10.00	S2206-05-ND	1.82	1.51	.97	PPPN052GFNP
	16	14.00	16.00	S2206-08-ND	2.49	2.06	1.32	PPPN082GFNP
	18	16.00	18.00	S2206-09-ND	2.56	2.12	1.36	PPPN092GFNP
	20	18.00	20.00	S2206-10-ND	2.59	2.15	1.37	PPPN102GFNP
	24	22.00	24.00	S2206-12-ND	3.12	2.59	1.65	PPPN122GFNP
	30	28.00	30.00	S2206-15-ND	3.89	3.22	2.06	PPPN152GFNP
	36	34.00	36.00	S2206-18-ND	4.69	3.89	2.48	PPPN182GFNP
	44	42.00	44.00	S2206-22-ND	5.71	4.73	3.02	PPPN222GFNP
	56	54.00	56.00	S2206-28-ND	7.11	5.89	3.76	PPPN282GFNP
	80	78.00	80.00	S2206-40-ND	10.15	8.41	5.37	PPPN402GFNP
Dual Row Receptacles (Top Entry Low Profile), SMD, with Locating Peg — RoHS Compliant								
12	10	8.00	10.00	S6013-05-ND	2.25	1.87	1.19	NPPN052GFNP-RC
	12	10.00	12.00	S6013-06-ND	2.61	2.17	1.39	NPPN062GFNP-RC
	14	12.00	14.00	S6013-07-ND	2.94	2.44	1.56	NPPN072GFNP-RC
	16	14.00	16.00	S6013-08-ND	3.07	2.54	1.63	NPPN082GFNP-RC
	18	16.00	18.00	S6013-09-ND	3.14	2.61	1.66	NPPN092GFNP-RC
	20	18.00	20.00	S6013-10-ND	3.21	2.67	1.70	NPPN102GFNP-RC
	24	22.00	24.00	S6013-12-ND	3.86	3.20	2.04	NPPN122GFNP-RC
	30	28.00	30.00	S6013-15-ND	4.82	4.00	2.55	NPPN152GFNP-RC
	36	34.00	36.00	S6013-18-ND	5.78	4.80	3.06	NPPN182GFNP-RC
	44	42.00	44.00	S6013-22-ND	7.07	5.86	3.74	NPPN222GFNP-RC
	56	54.00	56.00	S6013-28-ND	8.79	7.29	4.65	NPPN282GFNP-RC
	60	58.00	60.00	S6013-30-ND	9.43	7.81	4.99	NPPN302GFNP-RC
	70	68.00	70.00	S6013-35-ND	10.99	9.11	5.81	NPPN352GFNP-RC
	80	78.00	80.00	S6013-40-ND	12.57	10.42	6.65	NPPN402GFNP-RC
Dual Row Receptacles (Top Entry Low Profile), SMD, without Locating Peg								
12	10	8.00	10.00	S2207-05-ND	1.82	1.51	.97	PPPN052GFNS
	12	10.00	12.00	S2207-06-ND	2.10	1.74	1.11	PPPN062GFNS
	14	12.00	14.00	S2207-07-ND	2.38	1.98	1.26	PPPN072GFNS
	16	14.00	16.00	S2207-08-ND	2.49	2.06	1.32	PPPN082GFNS
	18	16.00	18.00	S2207-09-ND	2.56	2.12	1.36	PPPN092GFNS
	24	22.00	24.00	S2207-12-ND	3.12	2.59	1.65	PPPN122GFNS
	30	28.00	30.00	S2207-15-ND	3.89	3.22	2.06	PPPN152GFNS
	44	42.00	44.00	S2207-22-ND	5.71	4.73	3.02	PPPN222GFNS
	56	54.00	56.00	S2207-28-ND	7.11	5.89	3.76	PPPN282GFNS
	60	58.00	60.00	S2207-30-ND	7.63	6.33	4.04	PPPN302GFNS
	70	68.00	70.00	S2207-35-ND	8.89	7.37	4.70	PPPN352GFNS

(Continued)

Sullins 2mm Connectors *(Cont.)*

Fig.	Cir-cuits	Dimension (mm)		Digi-Key	Price Each			Sullins
		A	B	Part No.	1	10	100	Part No.
Dual Row Receptacles (Top Entry Low Profile), SMD, without Locating Peg — RoHS Compliant								
12	8	6.00	8.00	S6014-04-ND	1.85	1.54	.98	NPPN042GFNS-RC
	10	8.00	10.00	S6014-05-ND	2.25	1.87	1.19	NPPN052GFNS-RC
	12	10.00	12.00	S6014-06-ND	2.61	2.17	1.39	NPPN062GFNS-RC
	14	12.00	14.00	S6014-07-ND	2.94	2.44	1.56	NPPN072GFNS-RC
	16	14.00	16.00	S6014-08-ND	3.07	2.54	1.63	NPPN082GFNS-RC
	18	16.00	18.00	S6014-09-ND	3.14	2.61	1.66	NPPN092GFNS-RC
	20	18.00	20.00	S6014-10-ND	3.21	2.67	1.70	NPPN102GFNS-RC
	24	22.00	24.00	S6014-12-ND	3.86	3.20	2.04	NPPN122GFNS-RC
	30	28.00	30.00	S6014-15-ND	4.82	4.00	2.55	NPPN152GFNS-RC
	36	34.00	36.00	S6014-18-ND	5.78	4.80	3.06	NPPN182GFNS-RC
	44	42.00	44.00	S6014-22-ND	7.07	5.86	3.74	NPPN222GFNS-RC
	56	54.00	56.00	S6014-28-ND	8.79	7.29	4.65	NPPN282GFNS-RC
	60	58.00	60.00	S6014-30-ND	9.43	7.81	4.99	NPPN302GFNS-RC
	70	68.00	70.00	S6014-35-ND	10.99	9.11	5.81	NPPN352GFNS-RC
	80	78.00	80.00	S6014-40-ND	12.57	10.42	6.65	NPPN402GFNS-RC
Dual Row Receptacles, Right Angle								
13	6	4.00	6.50	S2204-03-ND	.88	.73	.47	PPPN032FJFN
	18	16.00	18.50	S2204-09-ND	1.58	1.31	.84	PPPN092FJFN
	22	20.00	22.50	S2204-11-ND	1.79	1.48	.95	PPPN112FJFN
	26	24.00	26.50	S2204-13-ND	2.10	1.74	1.11	PPPN132FJFN
	28	26.00	28.50	S2204-14-ND	2.28	1.89	1.21	PPPN142FJFN
	32	30.00	32.50	S2204-16-ND	2.38	1.98	1.26	PPPN162FJFN
	34	32.00	34.50	S2204-17-ND	2.56	2.12	1.36	PPPN172FJFN
	36	34.00	36.50	S2204-18-ND	2.70	2.24	1.43	PPPN182FJFN
	38	36.00	38.50	S2204-19-ND	2.84	2.35	1.50	PPPN192FJFN
	40	38.00	40.50	S2204-20-ND	2.98	2.47	1.58	PPPN202FJFN
	46	44.00	46.50	S2204-23-ND	3.43	2.85	1.82	PPPN232FJFN
	48	46.00	48.50	S2204-24-ND	3.57	2.96	1.89	PPPN242FJFN
Dual Row Receptacles, Right Angle — RoHS Compliant								
13	6	4.00	6.50	S5753-03-ND	1.23	1.02	.65	PPPN032FJFN-RC
	8	6.00	8.50	S5753-04-ND	1.46	1.22	.78	PPPN042FJFN-RC
	10	8.00	10.50	S5753-05-ND	1.82	1.51	.97	PPPN052FJFN-RC
	12	10.00	12.50	S5753-06-ND	2.19	1.82	1.16	PPPN062FJFN-RC
	14	12.00	14.50	S5753-07-ND	2.01	1.67	1.07	PPPN072FJFN-RC
	16	14.00	16.50	S5753-08-ND	2.56	2.12	1.36	PPPN082FJFN-RC
	18	16.00	18.50	S5753-09-ND	2.73	2.27	1.45	PPPN092FJFN-RC
	20	18.00	20.50	S5753-10-ND	2.92	2.42	1.55	PPPN102FJFN-RC
	22	20.00	22.50	S5753-11-ND	3.21	2.67	1.70	PPPN112FJFN-RC
	24	22.00	24.50	S5753-12-ND	3.50	2.90	1.85	PPPN122FJFN-RC
	26	24.00	26.50	S5753-13-ND	3.79	3.15	2.01	PPPN132FJFN-RC
	28	26.00	28.50	S5753-14-ND	4.09	3.39	2.17	PPPN142FJFN-RC
	30	28.00	30.50	S5753-15-ND	4.38	3.63	2.32	PPPN152FJFN-RC
	32	30.00	32.50	S5753-16-ND	4.67	3.87	2.47	PPPN162FJFN-RC
	34	32.00	34.50	S5753-17-ND	4.96	4.12	2.63	PPPN172FJFN-RC
	36	34.00	36.50	S5753-18-ND	5.25	4.35	2.78	PPPN182FJFN-RC
	38	36.00	38.50	S5753-19-ND	5.54	4.60	2.93	PPPN192FJFN-RC
	40	38.00	40.50	S5753-20-ND	5.84	4.84	3.09	PPPN202FJFN-RC
	42	40.00	42.50	S5753-21-ND	6.13	5.08	3.24	PPPN212FJFN-RC
	44	42.00	44.50	S5753-22-ND	6.42	5.32	3.40	PPPN222FJFN-RC
	46	44.00	46.50	S5753-23-ND	6.71	5.57	3.55	PPPN232FJFN-RC
	48	46.00	48.50	S5753-24-ND	7.00	5.80	3.70	PPPN242FJFN-RC
	50	48.00	50.50	S5753-25-ND	7.29	6.05	3.86	PPPN252FJFN-RC
	60	58.00	60.50	S5753-30-ND	4.88	4.04	2.58	PPPN302FJFN-RC
Quad Row Header, Straight								
14	120	58.00	60.00	S2401-30-ND	10.62	9.21	7.79	PRPN304RCCN
Quad Row Headers, Straight — RoHS Compliant								
14	24	10.00	12.00	S5804-06-ND	8.14	7.06	5.97	PRPN064RCCN-RC
	40	18.00	20.00	S5804-10-ND	9.26	8.03	6.80	PRPN104RCCN-RC
	48	22.00	24.00	S5804-12-ND	9.82	8.52	7.21	PRPN124RCCN-RC
	60	28.00	30.00	S5804-15-ND	10.66	9.24	7.82	PRPN154RCCN-RC
	72	34.00	36.00	S5804-18-ND	11.50	9.97	8.44	PRPN184RCCN-RC
	84	40.00	42.00	S5804-21-ND	12.34	10.70	9.05	PRPN214RCCN-RC
	96	46.00	48.00	S5804-24-ND	13.18	11.43	9.67	PRPN244RCCN-RC
	120	58.00	60.00	S5804-30-ND	13.75	11.92	10.09	PRPN304RCCN-RC
Quad Row Receptacles, Straight								
15	40	18.00	20.40	S2402-10-ND	4.55	3.77	2.41	PPRN104EFCN
	48	22.00	24.40	S2402-12-ND	5.46	4.53	2.89	PPRN124EFCN
	60	28.00	30.40	S2402-15-ND	6.83	5.66	3.61	PPRN154EFCN
	72	34.00	36.40	S2402-18-ND	8.19	6.79	4.33	PPRN184EFCN
	84	40.00	42.40	S2402-21-ND	9.56	7.92	5.06	PPRN214EFCN
	96	46.00	48.40	S2402-24-ND	10.92	9.05	5.78	PPRN244EFCN
Quad Row Receptacles, Straight — RoHS Compliant								
15	24	10.00	12.40	S6015-06-ND	4.81	3.99	2.55	PPRN064EFCN-RC
	40	18.00	20.40	S6015-10-ND	7.85	6.51	4.15	PPRN104EFCN-RC
	48	22.00	24.40	S6015-12-ND	8.31	6.89	4.40	PPRN124EFCN-RC
	60	28.00	30.40	S6015-15-ND	12.03	9.97	6.37	PPRN154EFCN-RC
	72	34.00	36.40	S6015-18-ND	13.21	10.95	6.99	PPRN184EFCN-RC
	84	40.00	42.40	S6015-21-ND	13.63	11.30	7.21	PPRN214EFCN-RC
	96	46.00	48.40	S6015-24-ND	14.07	11.66	7.44	PPRN244EFCN-RC
	120	58.00	60.40	S6015-30-ND	16.04	13.30	8.48	PPRN304EFCN-RC
Shunts, Open Top — RoHS Compliant								
16	2	Tin		S3405-ND	2.63/10		21.88/100	STN02SYBN-RC
	2	Gold		S3404-ND	2.63/10		21.88/100	SPN02SYBN-RC

3M

2mm x 2mm Pin Strip Headers

Dual Row - Straight Header

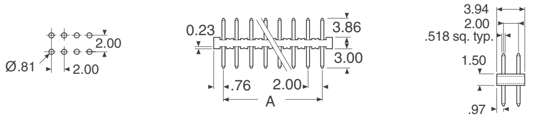

Dual Row - Right Angle Header

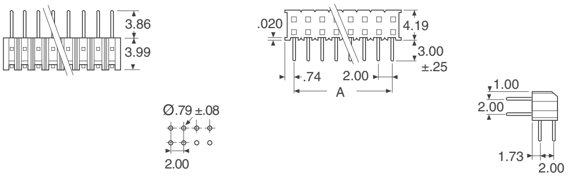

Features: • Industry standard compatible • High temperature dielectric • IR, vapor and wave solder compatible • Straight Solder Tail • Maximizes use of PC board space • Mates with boardmount and wiremount products • End stackable feature • Side stackable feature

Physical Specifications: • **Contact Plating:** • Wiping area: Gold - MIL-G-45204, Type II, Grade C • Solder Tails: 200µ" 90/10 Tin Lead - MIL-P-81728 (RoHS Compliant: Matte Tin) • Underplate: 100µ" nickel-QQ-N-290, Class 2 • **Contact Material:** Copper Alloy • **Insulation Material:** • Right Angle: Glass Filled Polyester (PCT) • Straight: Liquid Crystal Polymer (LCP) • Flammability: UL 94V-0 • **Color:** • Natural

Electrical Specifications: • Current Rating: 1.5Amp • Insulation Resistance: >5x10^9 Ω @ 250VDC • Withstanding Voltage: 500VDC @ Sea level

Environmental Specifications: • Operating Temperature: -55°C ~ 105°C

No. of Pos.	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
Dual Row Headers, Straight						
8	.295 (7.5)	3M1108-ND	.96	.73	.66	151208-8422-TB
10	.374 (9.5)	3M1110-ND	1.56	1.19	1.08	151210-8422-TB
12	.453 (11.5)	3M1112-ND	1.16	.89	.81	151212-8422-TB
20	.768 (19.5)	3M1120-ND	1.56	1.19	1.08	151220-8422-TB
24	.925 (23.5)	3M1124-ND	1.79	1.36	1.23	151224-8422-TB
30	1.162 (29.5)	3M1130-ND	2.06	1.57	1.42	151230-8422-TB
40	1.556 (39.5)	3M1140-ND	2.45	1.87	1.69	151240-8422-TB
44	1.714 (43.5)	3M1144-ND	2.64	2.01	1.82	151244-8422-TB
50	1.950 (49.5)	3M1150-ND	2.91	2.22	2.01	151250-8422-TB
60	2.344 (59.5)	3M1160-ND	3.37	2.56	2.32	151260-8422-TB
NEW! Dual Row Headers, Straight — RoHS Compliant NEW!						
8	.295 (7.5)	3M1408-ND	.96	.73	.66	151208-8422-RB
10	.374 (9.5)	3M1410-ND	1.06	.81	.73	151210-8422-RB
12	.453 (11.5)	3M1412-ND	1.16	.89	.81	151212-8422-RB
20	.768 (19.5)	3M1420-ND	1.56	1.19	1.08	151220-8422-RB
24	.925 (23.5)	3M1424-ND	1.79	1.36	1.23	151224-8422-RB
30	1.162 (29.5)	3M1430-ND	2.06	1.57	1.42	151230-8422-RB
40	1.556 (39.5)	3M1440-ND	2.45	1.87	1.69	151240-8422-RB
44	1.714 (43.5)	3M1444-ND	2.64	2.01	1.82	151244-8422-RB
50	1.950 (49.5)	3M1450-ND	2.91	2.22	2.01	151250-8422-RB
Dual Row Headers, Right Angle						
8	.295 (7.5)	3M1208-ND	.62	.48	.43	151208-7422-TB
10	.374 (9.5)	3M1210-ND	.71	.54	.49	151210-7422-TB
12	.453 (11.5)	3M1212-ND	.77	.59	.53	151212-7422-TB
20	.768 (19.5)	3M1220-ND	1.04	.79	.72	151220-7422-TB
24	.925 (23.5)	3M1224-ND	1.21	.92	.83	151224-7422-TB
30	1.162 (29.5)	3M1230-ND	1.39	1.06	.96	151230-7422-TB
40	1.556 (39.5)	3M1240-ND	1.87	1.43	1.29	151240-7422-TB
44	1.714 (43.5)	3M1244-ND	2.00	1.52	1.38	151244-7422-TB
50	1.950 (49.5)	3M1250-ND	2.18	1.66	1.51	151250-7422-TB
60	2.344 (59.5)	3M1260-ND	2.50	1.90	1.72	151260-7422-TB
NEW! Dual Row Headers, Right Angle — RoHS Compliant NEW!						
8	.295 (7.5)	3M1508-ND	.62	.48	.43	151208-7422-RB
10	.374 (9.5)	3M1510-ND	.71	.54	.49	151210-7422-RB
12	.453 (11.5)	3M1512-ND	.77	.59	.53	151212-7422-RB
20	.768 (19.5)	3M1520-ND	1.04	.79	.72	151220-7422-RB
24	.925 (23.5)	3M1524-ND	1.21	.92	.83	151224-7422-RB
30	1.162 (29.5)	3M1530-ND	1.39	1.06	.96	151230-7422-RB
40	1.556 (39.5)	3M1540-ND	1.87	1.43	1.29	151240-7422-RB
44	1.714 (43.5)	3M1544-ND	2.00	1.52	1.38	151244-7422-RB
50	1.950 (49.5)	3M1550-ND	2.18	1.66	1.51	151250-7422-RB

3M 2mm x 2mm Vertical Sockets

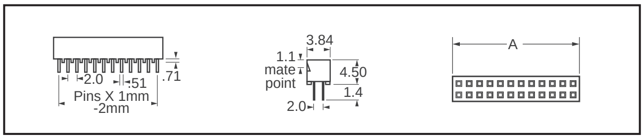

Features: • High temperature dielectric • IR, vapor and wave solder compatible • Available in thru hole • Industry standard compatible • Minimizes PC board stacking heights • End stackable feature • Side stackable feature **Physical Specifications:** Insulation Material: High Temperature Glass Filled Polyester (PCT) Color: Natural Marking: Molded orientation delta • Contact Material: Beryllium copper • Contact Plating: • Wiping area: 30µ" gold plate • Solder Tails: 100µ" 90/10 SnPb plate (RoHS Compliant: Matte Tin) • Underplate: 50µ" nickel **Electrical Specifications:** • Current Rating: 1.5 Amp • Insulation Resistance: 5000MΩ @ 250 Volts minimum • Withstanding Voltage: 500VDC @ Sea level **Environmental Specifications:** • Operating Temperature: -55°C ~ 105°C

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
Socket Vertical PC Mount						
8	.310 (8.00)	3M1008-ND	1.91	1.46	1.32	150208-6002-TB
10	.389 (10.00)	3M1010-ND	2.00	1.52	1.38	150210-6002-TB
12	.467 (12.00)	3M1012-ND	2.06	1.57	1.42	150212-6002-TB
20	.782 (20.00)	3M1020-ND	2.35	1.79	1.62	150220-6002-TB
24	.940 (24.00)	3M1024-ND	2.50	1.90	1.72	150224-6002-TB
30	1.176 (30.00)	3M1030-ND	2.70	2.06	1.86	150230-6002-TB
40	1.570 (40.00)	3M1040-ND	3.06	2.33	2.11	150240-6002-TB
44	1.727 (44.00)	3M1044-ND	3.20	2.44	2.21	150244-6002-TB
50	1.964 (50.00)	3M1050-ND	3.41	2.60	2.35	150250-6002-TB
60	2.357 (60.00)	3M1060-ND	3.79	2.88	2.61	150260-6002-TB
NEW! Socket Vertical PC Mount — RoHS Compliant NEW!						
8	.310 (8.00)	3M1308-ND	1.91	1.46	1.32	150208-6002-RB
10	.389 (10.00)	3M1310-ND	2.00	1.52	1.38	150210-6002-RB
12	.467 (12.00)	3M1312-ND	2.06	1.57	1.42	150212-6002-RB
20	.782 (20.00)	3M1320-ND	2.35	1.79	1.62	150220-6002-RB
24	.940 (24.00)	3M1324-ND	2.50	1.90	1.72	150224-6002-RB
30	1.176 (30.00)	3M1330-ND	2.70	2.06	1.86	150230-6002-RB
40	1.570 (40.00)	3M1340-ND	3.06	2.33	2.11	150240-6002-RB
44	1.727 (44.00)	3M1344-ND	3.20	2.44	2.21	150244-6002-RB
50	1.964 (50.00)	3M1350-ND	3.41	2.60	2.35	150250-6002-RB
60	2.357 (60.00)	3M1360-ND	3.79	2.88	2.61	150260-6002-RB

2mm Wiremount Sockets

RoHS COMPLIANT

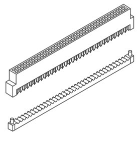

2mm Wiremount Socket – 1mm Pitch Cable

Features: • Industry standard compatible • Mates with 2.0mm x 2.0mm grid pin strips • Low profile • Preassembled covers • Available with and without strain relief **Physical Specifications:** • **Insulation Material:** Glass Filled Polyester (PBT), Flammability: UL94 V-0 • **Color:** Gray • **Contact Material:** Beryllium copper • **Contact Plating:** • Underplate and U-slot: 50-150µ" Nickel, QQ-N-290, Class 2 • Wiping area: Gold Mil-G-45204, Type II, Grade C • **Marking:** Orientation triangle and 3M logo **Electrical Specifications:** • Current Rating: 1 Amp • Insulation Resistance: >1x10Ω at 500VDC • Withstanding Voltage: 1000Vrms at Sea Level **Environmental Specifications:** • Operating Temperature Rating: -55°C ~ 105°C **Rating:** UL File No. E86982, CSA File No. LR#48869

1.0mm Round Conductor Flat Cable – 28AWG Stranded, PVC

Features: • Close spacing permits high signal density • 28AWG wire on 1.0mm centers permits mass termination to 2.0mm connectors • Zippable for branching or discrete termination • Stranded wire provides flexibility and extended product life **Physical Specifications:** • Insulation Material: Polyvinyl Chloride (PVC) • Color: Gray • Marking: Red Edge • Conductors: 28AWG, 7 x 36 Tinned Stranded Copper **Electrical Specifications:** • Voltage Rating: 300V • Insulation Resistance: >1 x 10^{10}Ω/3m (10 feet) • Characteristic Impedance: 92Ω Unbalanced, 146Ω Balanced • Capacitance: 55.50 pF/m Unbalanced, 32.77 pF/m Balanced • Inductance: 0.47µH/m Unbalanced, 0.70µH/m Balanced • Propagation Delay: 4.95ns/m Unbalanced, 4.78ns/m Balanced **Environmental Specifications:** • Temperature Rating Operating: -20°C ~ 105°C • Flammability Rating: UL: VW-1, CSA: FT1 **Rating:** UL File No. E42769, Style 2651 CSA File No. LL 53649 (optional)

No. of Pos.	Digi-Key Part No.	Price Each 1	100	500	3M Part No.
IDC Socket Gold					
10	MSA10A-ND	3.14	2.39	2.12	152210-0100-GB
12	MSA12A-ND	3.18	2.42	2.19	152212-0100-GB
44	MSA44A-ND	4.49	3.42	3.09	152244-0100-GB
50	MSA50A-ND	4.58	3.48	3.15	152250-0100-GB
IDC Socket Gold with Strain Relief					
10	MSE10A-ND	3.64	2.77	2.51	152210-0103-GB
12	MSE12A-ND	3.83	2.91	2.64	152212-0103-GB
44	MSE44A-ND	5.05	3.84	3.48	152244-0103-GB
50	MSE50A-ND	5.14	3.91	3.54	152250-0103-GB

No. of Pos.	(NOTE: "X" in Part No. Represents No. of Meters) Digi-Key Part No.	Price Per Meters 5	10	25	50	100	3M Part No.
Ribbon Cable Gray							
10	MC10L-X-ND	7.08	13.14	29.32	50.55	80.88	3625/10 100M
12	MC12L-X-ND	8.49	15.77	35.18	60.66	97.06	3625/12 100M
44	MC44L-X-ND	31.14	57.83	129.01	222.43	355.88	3625/44 100M
50	MC50L-X-ND	35.39	65.72	146.60	252.75	404.40	3625/50 100M

100m reel quantity may contain splices. Splice position will be marked on the reel.

molex Waldom ELECTRONICS RoHS COMPLIANT

2mm Cable-to-Board Receptacle

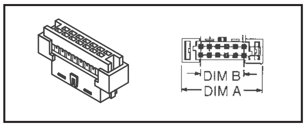

UL2651, UL2678 **UL File No:** E29179 CSA **File No:** LR19980 **Mates With:** Milli-Grid 2.00mm Headers ***Electrical:*** **Voltage:** 125VDC **Current:** 1.0A **Contact Resistance:** 30mΩ maximum **Dielectric Withstanding Voltage:** 500VAC **Insulation Resistance:** 5000MΩ minimum ***Physical:*** **Housing:** High Thermoplastic, UL 94V-0 **Contact:** Copper Alloy **Plating Contact Area:** (15µ") Gold **Operating Temperature:** -20°C ~ 85°C **Cable:** 1.00mm Flat Cable, 7 Strands, 28 AWG

No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	10	25	Molex Part No.
Dual Row, IDT without Polarization and Locking Ramp							
10	16.65	8.00	WM14210-ND	2.95	2.37	1.97	87568-1063
12	18.65	10.00	WM14212-ND	3.20	2.57	2.14	87568-1263
14	20.65	12.00	WM14214-ND	3.69	2.96	2.47	87568-1463
16	22.65	14.00	WM14216-ND	3.96	3.17	2.64	87568-1663
20	26.65	18.00	WM14220-ND	4.12	3.30	2.75	87568-2063
22	28.65	20.00	WM14222-ND	4.53	3.63	3.03	87568-2263
24	30.65	22.00	WM14224-ND	4.94	3.96	3.30	87568-2463
26	32.65	24.00	WM14226-ND	5.04	4.03	3.36	87568-2663
30	36.65	28.00	WM14230-ND	5.45	4.36	3.64	87568-3063
34	40.65	32.00	WM14234-ND	5.61	4.49	3.74	87568-3463
40	46.65	38.00	WM14240-ND	6.19	4.96	4.13	87568-4063
44	50.65	42.00	WM14244-ND	6.35	5.08	4.24	87568-4463
50	56.65	48.00	WM14250-ND	7.00	5.61	4.67	87568-5063
Dual Row, IDT with Single Locking Ramp							
10	16.65	8.00	WM14310-ND	2.72	2.18	1.82	87568-1073
12	18.65	10.00	WM14312-ND	3.20	2.57	2.14	87568-1273
Dual Row, IDT with Polarization and Locking Ramp							
14	20.65	12.00	WM14314-ND	3.69	2.96	2.47	87568-1493
16	22.65	14.00	WM14316-ND	3.96	3.17	2.64	87568-1693
20	26.65	18.00	WM14320-ND	4.12	3.30	2.75	87568-2093
22	28.65	20.00	WM14322-ND	4.53	3.63	3.03	87568-2293
24	30.65	22.00	WM14324-ND	4.94	3.96	3.30	87568-2493
26	32.65	24.00	WM14326-ND	5.04	4.03	3.36	87568-2693
30	36.65	28.00	WM14330-ND	5.32	4.26	3.55	87568-3093
34	40.65	32.00	WM14334-ND	5.61	4.49	3.74	87568-3493
40	46.65	38.00	WM14340-ND	6.19	4.96	4.13	87568-4093
44	50.65	42.00	WM14344-ND	6.00	4.80	4.00	87568-4493
50	56.65	48.00	WM14350-ND	7.12	5.70	4.75	87568-5093

1mm Round Conductor Flat Cable

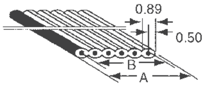

UL File No: E61522, UL Style No. 2678 **CSA File No:** LL61126 **Electrical: Voltage:** 150V **Physical: Flammability:** VW-1 **Operating Temperature:** -20°C ~ 105°C **Insulation:** Gray PVC **Edge Mark:** Black, 28AWG Stranded, Tinned

Circuits	Dimensions (mm) A	B	(NOTE: "X" in Part No. Represents No. of Feet) Digi-Key Part No.	Price Per Feet 5	10	25	50	100
10	10.00	9.00	WM11-X-ND	4.38	8.24	18.02	30.89	51.48
20	20.00	19.00	WM12-X-ND	7.42	13.96	30.55	52.36	87.27
24	24.00	23.00	WM13-X-ND	8.90	16.75	36.64	62.82	104.69
40	40.00	39.00	WM14-X-ND	16.39	30.85	67.49	115.70	192.83
44	44.00	43.00	WM15-X-ND	18.03	33.94	74.25	127.28	212.14
50	50.00	49.00	WM16-X-ND	18.63	35.06	76.70	131.48	219.14

tyco Electronics AMP

2mm Ribbon Connectors

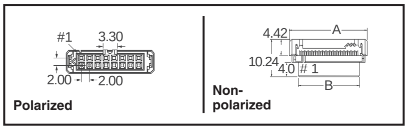

The new 2.0 (.079) AMP-LATCH® receptacle connector family features contacts on a true 2.0 x 2.0 (.079 x .079) mating grid for 1.0 (.039) pitch ribbon. These receptacles feature insulation displacement contacts (IDC) with a top/bottom single beam contact orientation. Contacts are beryllium copper, duplex plated 30µ" gold in the mating area and 100µ" minimum tin-lead on termination end all over 50µ" nickel underplating. Contact mating area is 1.54 (.061) from the face of the housing and they accept 0.50mm (.0197) round or square posts.

Product Facts: • True hard metric 2.0 x 2.0 mating grid for 1.0 pitch ribbon cable • IDC, beryllium copper contacts, duplex plated gold-over-nickel • U.L. 94V-0 rated thermoplastic components

Performance Data: • Durability: 150 cycles • Termination Resistance: 25mΩ maximum • Mating Force: 1.67N maximum • Unmating Force: 0.14N minimum • Operating Temperature: -65°C ~ 105°C

No. of Pos.	Dimensions (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Receptacle — Feed Thru Cover Polarized						
16	21.18	16.41	AKA16K-ND	3.29	2.07	111623-3
24	29.18	24.41	AKA24K-ND	4.73	2.98	111623-5
Receptacle — Feed Thru Cover Non-Polarized						
14	19.18	14.40	ASA14K-ND	3.25	2.04	111626-2
16	21.18	16.41	ASA16K-ND	4.98	3.12	111626-3
26	31.17	26.42	ASA26K-ND	5.17	3.24	111626-6
Receptacle — Feed Thru Cover Polarized RoHS Compliant						
10	15.16	10.41	AKA10L-ND	2.55	1.60	1-111623-8
14	19.18	14.40	AKA14L-ND	2.64	1.66	1-111623-9
16	21.18	16.41	AKA16L-ND	3.08	1.93	2-111623-0
20	25.17	20.40	AKA20L-ND	2.75	1.73	2-111623-1
24	29.18	24.41	AKA24L-ND	4.72	2.96	2-111623-7
26	31.17	26.42	AKA26L-ND	3.20	2.01	2-111623-2
30	35.18	30.40	AKA30L-ND	3.25	2.04	2-111623-3
40	45.19	40.14	AKA40L-ND	4.00	2.51	2-111623-4
44	49.17	44.40	AKA44L-ND	4.00	2.51	2-111623-5
50	55.17	50.39	AKA50L-ND	4.25	2.66	2-111623-6
Receptacle — Feed Thru Cover Non-Polarized RoHS Compliant						
8	13.18	8.41	ASA08L-ND	2.94	1.85	2-111626-4
10	15.16	10.41	ASA10L-ND	2.94	1.84	1-111626-7
14	19.18	14.40	ASA14L-ND	2.98	1.87	1-111626-8
16	21.18	16.41	ASA16L-ND	3.10	1.95	2-111626-5
20	25.17	20.40	ASA20L-ND	2.75	1.73	1-111626-9
24	29.18	24.41	ASA24L-ND ***NEW!***	3.60	2.26	2-111626-6
26	31.17	26.42	ASA26L-ND	4.82	3.02	2-111626-7
34	39.17	34.42	ASA34L-ND ***NEW!***	3.90	2.45	2-111626-0
40	45.19	40.41	ASA40L-ND	4.00	2.51	2-111626-1
44	49.17	44.40	ASA44L-ND	4.00	2.51	2-111626-2
50	55.17	50.39	ASA50L-ND	4.25	2.66	2-111626-3

Sullins .1” (2.54mm) Female Headers

Specifications:
- Current Rating: 3 Amps
- Insulator Resistance: 5000MΩ minimum
- Contact Resistance: 20mΩ maximum
- Contact Material: Phosphor Bronze
- Plating: Tin or Gold

Fig. 1

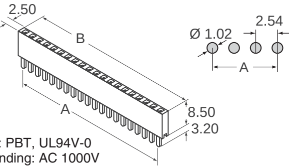

- Insulator Material: PBT, UL94V-0
- Dielectric Withstanding: AC 1000V
- Operating Temperature: –40°C ~ 105°C

Fig. 2

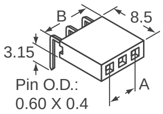

- Insulator Material: Polyester PBT, UL94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: –40°C ~ 105°C

Fig. 3

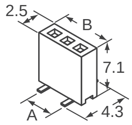

- Insulator Material: Nylon 6T, UL94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: –40°C ~ 125°C

Fig. 4

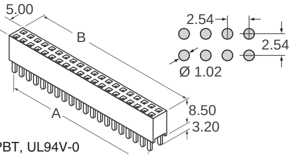

- Insulator Material: PBT, UL94V-0
- Dielectric Withstanding: AC 1000V
- Operating Temperature: –40°C ~ 105°C

Fig. 5

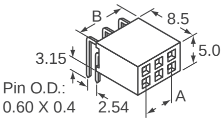

- Insulator Material: Polyester PBT, UL94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: –40°C ~ 105°C

Fig. 6

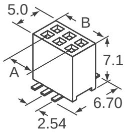

- Insulator Material: Nylon 6T, UL94V-0
- Dielectric Withstanding: AC 500V
- Operating Temperature: –40°C ~ 125°C

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Fig. 1 — Single Row Female Headers								
Tin	7	.600 (15.24)	.720 (18.28)	S4007-ND	.54	4.50	28.68	PPTC071LFBN
	8	.700 (17.78)	.820 (20.82)	S4008-ND	.61	5.08	32.38	PPTC081LFBN
	9	.800 (20.32)	.920 (23.36)	S4009-ND	.70	5.80	37.00	PPTC091LFBN
	11	1.00 (25.40)	1.12 (28.44)	S4011-ND	.51	4.21	26.83	PPTC111LFBN
	13	1.20 (30.48)	1.32 (33.52)	S4013-ND	.60	4.93	31.45	PPTC131LFBN
	21	2.00 (50.80)	2.12 (53.84)	S4021-ND	.91	7.54	48.10	PPTC211LFBN
	22	2.10 (53.34)	2.22 (56.38)	S4022-ND	.95	7.83	49.95	PPTC221LFBN
	23	2.20 (55.88)	2.32 (58.92)	S4023-ND	.98	8.12	51.80	PPTC231LFBN
	28	2.70 (68.58)	2.82 (71.62)	S4028-ND	1.16	9.57	61.05	PPTC281LFBN
	29	2.80 (71.12)	2.92 (74.16)	S4029-ND	1.19	9.86	62.90	PPTC291LFBN
	31	3.00 (76.20)	3.12 (79.24)	S4031-ND	1.28	10.59	67.53	PPTC311LFBN
	33	3.20 (81.28)	3.32 (84.32)	S4033-ND	1.37	11.31	72.15	PPTC331LFBN
	34	3.30 (83.82)	3.42 (86.86)	S4034-ND	1.40	11.60	74.00	PPTC341LFBN
Gold	3	.200 (5.08)	.320 (8.12)	S4103-ND	.30	2.47	15.73	PPPC031LFBN
	7	.600 (15.24)	.720 (18.28)	S4107-ND	.54	4.50	28.68	PPPC071LFBN
	8	.700 (17.78)	.820 (20.82)	S4108-ND	.61	5.08	32.38	PPPC081LFBN
	9	.800 (20.32)	.920 (23.36)	S4109-ND	.70	5.80	37.00	PPPC091LFBN
	13	1.20 (30.48)	1.32 (33.52)	S4113-ND	.60	4.93	31.45	PPPC131LFBN
	15	1.40 (35.56)	1.52 (38.60)	S4115-ND	.68	5.66	36.08	PPPC151LFBN
	19	1.80 (45.72)	1.92 (48.76)	S4119-ND	.88	7.25	46.25	PPPC191LFBN
	21	2.00 (50.80)	2.12 (53.84)	S4121-ND	.91	7.54	48.10	PPPC211LFBN
	22	2.10 (53.34)	2.22 (56.38)	S4122-ND	.95	7.83	49.95	PPPC221LFBN
	23	2.20 (55.88)	2.32 (58.92)	S4123-ND	.98	8.12	51.80	PPPC231LFBN
	24	2.30 (58.42)	2.42 (61.46)	S4124-ND	1.02	8.41	53.65	PPPC241LFBN
	27	2.60 (66.04)	2.72 (69.08)	S4127-ND	1.12	9.28	59.20	PPPC271LFBN
	28	2.70 (68.58)	2.82 (71.62)	S4128-ND	1.16	9.57	61.05	PPPC281LFBN
	29	2.80 (71.12)	2.92 (74.16)	S4129-ND	1.19	9.86	62.90	PPPC291LFBN
	31	3.00 (76.20)	3.12 (79.24)	S4131-ND	1.28	10.59	67.53	PPPC311LFBN
	32	3.10 (78.74)	3.22 (81.78)	S4132-ND	1.31	10.88	69.38	PPPC321LFBN
	33	3.20 (81.28)	3.32 (84.32)	S4133-ND	1.37	11.31	72.15	PPPC331LFBN
	34	3.30 (83.82)	3.42 (86.86)	S4134-ND	1.40	11.60	74.00	PPPC341LFBN
Fig. 1 — Single Row Female Headers, RoHS Compliant								
Tin	2	.100 (2.54)	.220 (5.58)	S7000-ND	.21	1.74	11.10	PPTC021LFBN-RC
	3	.200 (5.08)	.320 (8.12)	S7001-ND	.29	2.41	15.36	PPTC031LFBN-RC
	4	.300 (7.62)	.420 (10.66)	S7002-ND	.39	3.19	20.35	PPTC041LFBN-RC
	5	.400 (10.16)	.520 (13.20)	S6103-ND	.39	3.19	20.35	PPTC051LFBN-RC
	6	.500 (12.70)	.620 (15.74)	S7004-ND	.47	3.86	24.61	PPTC061LFBN-RC
	7	.600 (15.24)	.720 (18.28)	S7005-ND	.54	4.50	28.68	PPTC071LFBN-RC
	8	.700 (17.78)	.820 (20.82)	S7006-ND	.62	5.16	32.93	PPTC081LFBN-RC
	9	.800 (20.32)	.920 (23.36)	S7007-ND	.70	5.80	37.00	PPTC091LFBN-RC
	10	.900 (22.86)	1.02 (25.90)	S7008-ND	.46	3.77	24.05	PPTC101LFBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S7009-ND	.50	4.15	26.46	PPTC111LFBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S6100-ND	.55	4.58	29.23	PPTC121LFBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S7011-ND	.60	4.93	31.45	PPTC131LFBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S7012-ND	.64	5.31	33.86	PPTC141LFBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S7013-ND	.68	5.66	36.08	PPTC151LFBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S7014-ND	.73	6.03	38.48	PPTC161LFBN-RC
	17	1.60 (40.64)	1.72 (43.68)	S7015-ND	.78	6.47	41.26	PPTC171LFBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S7016-ND	.82	6.82	43.48	PPTC181LFBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S7017-ND	.87	7.19	45.88	PPTC191LFBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S7018-ND	.82	6.82	43.48	PPTC201LFBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S7019-ND	.86	7.11	45.33	PPTC211LFBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S7020-ND	.90	7.48	47.73	PPTC221LFBN-RC
	23	2.20 (55.88)	2.32 (58.92)	S7021-ND	.95	7.83	49.95	PPTC231LFBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S7022-ND	.99	8.21	52.36	PPTC241LFBN-RC
	25	2.40 (60.96)	2.52 (64.00)	S7023-ND	1.03	8.50	54.21	PPTC251LFBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S7024-ND	1.07	8.85	56.43	PPTC261LFBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S7025-ND	1.11	9.22	58.83	PPTC271LFBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S7026-ND	1.15	9.51	60.68	PPTC281LFBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S7027-ND	1.25	10.38	66.23	PPTC291LFBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S7028-ND	1.30	10.76	68.64	PPTC301LFBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S7029-ND	1.33	11.05	70.49	PPTC311LFBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S6102-ND	1.38	11.46	73.08	PPTC321LFBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S7031-ND	1.43	11.83	75.48	PPTC331LFBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S7032-ND	1.46	12.12	77.33	PPTC341LFBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S7033-ND	1.51	12.50	79.74	PPTC351LFBN-RC
	36	3.50 (88.90)	3.62 (91.94)	S7034-ND	1.55	12.88	82.14	PPTC361LFBN-RC
Gold	2	.100 (2.54)	.220 (5.58)	S7035-ND	.21	1.74	11.10	PPPC021LFBN-RC
	3	.200 (5.08)	.320 (8.12)	S7036-ND	.29	2.41	15.36	PPPC031LFBN-RC
	4	.300 (7.62)	.420 (10.66)	S7037-ND	.39	3.19	20.35	PPPC041LFBN-RC
Gold	5	.400 (10.16)	.520 (13.20)	S7038-ND	.41	3.36	21.46	PPPC051LFBN-RC
	6	.500 (12.70)	.620 (15.74)	S7039-ND	.47	3.86	24.61	PPPC061LFBN-RC
	7	.600 (15.24)	.720 (18.28)	S7040-ND	.54	4.50	28.68	PPPC071LFBN-RC
	8	.700 (17.78)	.820 (20.82)	S7041-ND	.62	5.16	32.93	PPPC081LFBN-RC
	9	.800 (20.32)	.920 (23.36)	S7042-ND	.70	5.80	37.00	PPPC091LFBN-RC
	10	.900 (22.86)	1.02 (25.90)	S7043-ND	.48	3.97	25.35	PPPC101LFBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S7044-ND	.50	4.15	26.46	PPPC111LFBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S7045-ND	.55	4.58	29.23	PPPC121LFBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S7046-ND	.60	4.93	31.45	PPPC131LFBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S7047-ND	.64	5.31	33.86	PPPC141LFBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S7048-ND	.72	5.95	37.93	PPPC151LFBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S7049-ND	.73	6.03	38.48	PPPC161LFBN-RC
	17	1.60 (40.64)	1.72 (43.68)	S7050-ND	.82	6.79	43.29	PPPC171LFBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S7051-ND	.86	7.16	45.70	PPPC181LFBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S7052-ND	.87	7.19	45.88	PPPC191LFBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S7053-ND	.86	7.16	45.70	PPPC201LFBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S7054-ND	.90	7.48	47.73	PPPC211LFBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S7055-ND	.95	7.86	50.14	PPPC221LFBN-RC
	23	2.20 (55.88)	2.32 (58.92)	S7056-ND	.99	8.24	52.54	PPPC231LFBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S7057-ND	1.04	8.61	54.95	PPPC241LFBN-RC
	25	2.40 (60.96)	2.52 (64.00)	S7058-ND	1.08	8.93	56.98	PPPC251LFBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S7059-ND	1.12	9.31	59.39	PPPC261LFBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S7060-ND	1.17	9.69	61.79	PPPC271LFBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S7061-ND	1.21	10.01	63.83	PPPC281LFBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S7062-ND	1.25	10.38	66.23	PPPC291LFBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S7063-ND	1.30	10.76	68.64	PPPC301LFBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S7064-ND	1.33	11.05	70.49	PPPC311LFBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S7065-ND	1.38	11.46	73.08	PPPC321LFBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S7066-ND	1.43	11.83	75.48	PPPC331LFBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S7067-ND	1.46	12.12	77.33	PPPC341LFBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S7068-ND	1.51	12.50	79.74	PPPC351LFBN-RC
	36	3.50 (88.90)	3.62 (91.94)	S7069-ND	1.55	12.88	82.14	PPPC361LFBN-RC
Fig. 2 — Single Row Female Headers, Right Angle								
Tin	5	.400 (10.16)	.524 (13.30)	S4340-ND	.48	4.00	25.53	PPTC051LGBN
	6	.500 (12.70)	.624 (15.84)	S4341-ND	.55	4.58	29.23	PPTC061LGBN
	7	.600 (15.24)	.724 (18.38)	S4342-ND	.54	4.50	28.68	PPTC071LGBN
	8	.700 (17.78)	.824 (20.92)	S4343-ND	.55	4.58	29.23	PPTC081LGBN
	9	.800 (20.32)	.924 (23.46)	S4344-ND	.61	5.08	32.38	PPTC091LGBN
	10	.900 (22.86)	1.02 (26.00)	S4345-ND	.64	5.31	33.86	PPTC101LGBN
	11	1.00 (25.40)	1.12 (28.54)	S4346-ND	.82	6.79	43.29	PPTC111LGBN
	13	1.20 (30.48)	1.32 (33.62)	S4348-ND	.97	8.03	51.25	PPTC131LGBN
	14	1.30 (33.02)	1.42 (36.16)	S4349-ND	1.04	8.64	55.13	PPTC141LGBN
	15	1.40 (35.56)	1.52 (38.70)	S4350-ND	1.11	9.22	58.83	PPTC151LGBN
	16	1.50 (38.10)	1.62 (41.24)	S4351-ND	1.10	9.14	58.28	PPTC161LGBN
	17	1.60 (40.64)	1.72 (43.78)	S4352-ND	1.18	9.74	62.16	PPTC171LGBN
	18	1.70 (43.18)	1.82 (46.32)	S4353-ND	1.25	10.32	65.86	PPTC181LGBN
	19	1.80 (45.72)	1.92 (48.86)	S4354-ND	1.32	10.93	69.75	PPTC191LGBN
	21	2.00 (50.80)	2.12 (53.94)	S4356-ND	1.45	12.04	76.78	PPTC211LGBN
	22	2.10 (53.34)	2.22 (56.48)	S4357-ND	1.52	12.62	80.48	PPTC221LGBN
	23	2.20 (55.88)	2.32 (59.02)	S4358-ND	1.60	13.22	84.36	PPTC231LGBN
	24	2.30 (58.42)	2.42 (61.56)	S4359-ND	1.67	13.80	88.06	PPTC241LGBN
	25	2.40 (60.96)	2.52 (64.10)	S4360-ND	1.73	14.30	91.21	PPTC251LGBN
	26	2.50 (63.50)	2.62 (66.64)	S4361-ND	1.80	14.91	95.09	PPTC261LGBN
	27	2.60 (66.04)	2.72 (69.18)	S4362-ND	1.87	15.49	98.79	PPTC271LGBN
	28	2.70 (68.58)	2.82 (71.72)	S4363-ND	1.94	16.10	102.68	PPTC281LGBN
	29	2.80 (71.12)	2.92 (74.26)	S4364-ND	2.00	16.59	105.82	PPTC291LGBN
	30	2.90 (73.66)	3.02 (76.80)	S4365-ND	2.08	17.20	109.71	PPTC301LGBN
	31	3.00 (76.20)	3.12 (79.34)	S4366-ND	2.15	17.78	113.41	PPTC311LGBN
	32	3.10 (78.74)	3.22 (81.88)	S4367-ND	2.25	18.62	118.77	PPTC321LGBN
	33	3.20 (81.28)	3.32 (84.42)	S4368-ND	2.25	18.62	118.77	PPTC331LGBN
	34	3.30 (83.82)	3.42 (86.96)	S4369-ND	2.35	19.49	124.32	PPTC341LGBN
	35	3.40 (86.36)	3.52 (89.50)	S4370-ND	2.45	20.33	129.69	PPTC351LGBN
	36	3.50 (88.90)	3.62 (92.04)	S4371-ND	2.49	20.65	131.72	PPTC361LGBN
	37	3.60 (91.44)	3.72 (94.58)	S4372-ND	2.57	21.26	135.61	PPTC371LGBN
	38	3.70 (93.98)	3.82 (97.12)	S4373-ND	2.63	21.75	138.75	PPTC381LGBN
	39	3.80 (96.52)	3.92 (99.66)	S4374-ND	2.70	22.36	142.64	PPTC391LGBN
	40	3.90 (99.06)	4.02 (102.20)	S4375-ND	2.77	22.94	146.34	PPTC401LGBN
Gold	2	.100 (2.54)	.224 (5.68)	S4376-ND	.26	2.12	13.51	PPPC021LGBN
	3	.200 (5.08)	.324 (8.22)	S4377-ND	.34	2.84	18.13	PPPC031LGBN
	4	.300 (7.62)	.424 (10.76)	S4378-ND	.46	3.77	24.05	PPPC041LGBN

(Continued)

Sullins .1” (2.54mm) Female Headers *(Cont.)*

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sullins Part No.
Gold	5	.400 (10.16)	.524 (13.30)	S4379-ND	.48	4.00	25.53	PPPC051LGBN
	6	.500 (12.70)	.624 (15.84)	S4380-ND	.55	4.58	29.23	PPPC061LGBN
	7	.600 (15.24)	.724 (18.38)	S4381-ND	.54	4.50	28.68	PPPC071LGBN
	8	.700 (17.78)	.824 (20.92)	S4382-ND	.55	4.58	29.23	PPPC081LGBN
	9	.800 (20.32)	.924 (23.46)	S4383-ND	.61	5.08	32.38	PPPC091LGBN
	10	.900 (22.86)	1.02 (26.00)	S4384-ND	.64	5.31	33.86	PPPC101LGBN
	11	1.00 (25.40)	1.12 (28.54)	S4385-ND	.82	6.79	43.29	PPPC111LGBN
	12	1.10 (27.94)	1.22 (31.08)	S4386-ND	.90	7.45	47.55	PPPC121LGBN
	13	1.20 (30.48)	1.32 (33.62)	S4387-ND	.97	8.03	51.25	PPPC131LGBN
	14	1.30 (33.02)	1.42 (36.16)	S4388-ND	1.04	8.64	55.13	PPPC141LGBN
	15	1.40 (35.56)	1.52 (38.70)	S4389-ND	1.11	9.22	58.83	PPPC151LGBN
	16	1.50 (38.10)	1.62 (41.24)	S4390-ND	1.10	9.14	58.28	PPPC161LGBN
	17	1.60 (40.64)	1.72 (43.78)	S4391-ND	1.18	9.74	62.16	PPPC171LGBN
	18	1.70 (43.18)	1.82 (46.32)	S4392-ND	1.25	10.32	65.86	PPPC181LGBN
	19	1.80 (45.72)	1.92 (48.86)	S4393-ND	1.32	10.93	69.75	PPPC191LGBN
	21	2.00 (50.80)	2.12 (53.94)	S4395-ND	1.45	12.04	76.78	PPPC211LGBN
	22	2.10 (53.34)	2.22 (56.48)	S4396-ND	1.52	12.62	80.48	PPPC221LGBN
	23	2.20 (55.88)	2.32 (59.02)	S4397-ND	1.60	13.22	84.36	PPPC231LGBN
	24	2.30 (58.42)	2.42 (61.56)	S4398-ND	1.67	13.80	88.06	PPPC241LGBN
	25	2.40 (60.96)	2.52 (64.10)	S4399-ND	1.73	14.30	91.21	PPPC251LGBN
	26	2.50 (63.50)	2.62 (66.64)	S4400-ND	1.80	14.91	95.09	PPPC261LGBN
	27	2.60 (66.04)	2.72 (69.18)	S4401-ND	1.87	15.49	98.79	PPPC271LGBN
	28	2.70 (68.58)	2.82 (71.72)	S4402-ND	1.94	16.10	102.68	PPPC281LGBN
	29	2.80 (71.12)	2.92 (74.26)	S4403-ND	2.00	16.59	105.82	PPPC291LGBN
	30	2.90 (73.66)	3.02 (76.80)	S4404-ND	2.08	17.20	109.71	PPPC301LGBN
	31	3.00 (76.20)	3.12 (79.34)	S4405-ND	2.15	17.78	113.41	PPPC311LGBN
	33	3.20 (81.28)	3.32 (84.42)	S4407-ND	2.25	18.62	118.77	PPPC331LGBN
	34	3.30 (83.82)	3.42 (86.96)	S4408-ND	2.35	19.49	124.32	PPPC341LGBN
	35	3.40 (86.36)	3.52 (89.50)	S4409-ND	2.45	20.33	129.69	PPPC351LGBN
	36	3.50 (88.90)	3.62 (92.04)	S4410-ND	2.49	20.65	131.72	PPPC361LGBN
	37	3.60 (91.44)	3.72 (94.58)	S4411-ND	2.57	21.26	135.61	PPPC371LGBN
	38	3.70 (93.98)	3.82 (97.12)	S4412-ND	2.63	21.75	138.75	PPPC381LGBN
	39	3.80 (96.52)	3.92 (99.66)	S4413-ND	2.70	22.36	142.64	PPPC391LGBN
	40	3.90 (99.06)	4.02 (102.20)	S4414-ND	2.77	22.94	146.34	PPPC401LGBN

Fig. 2 — Single Row Female Headers, Right Angle, RoHS Compliant

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sullins Part No.
Tin	2	.100 (2.54)	.220 (5.58)	S5438-ND	.26	2.12	13.51	PPTC021LGBN-RC
	3	.200 (5.08)	.320 (8.12)	S5439-ND	.34	2.84	18.13	PPTC031LGBN-RC
	4	.300 (7.62)	.420 (10.66)	S5440-ND	.46	3.77	24.05	PPTC041LGBN-RC
	5	.400 (10.16)	.520 (13.20)	S5441-ND	.48	4.00	25.53	PPTC051LGBN-RC
	6	.500 (12.70)	.620 (15.74)	S5442-ND	.55	4.58	29.23	PPTC061LGBN-RC
	7	.600 (15.24)	.720 (18.28)	S5443-ND	.54	4.50	28.68	PPTC071LGBN-RC
	8	.700 (17.78)	.820 (20.82)	S5444-ND	.55	4.58	29.23	PPTC081LGBN-RC
	9	.800 (20.32)	.920 (23.36)	S5445-ND	.61	5.08	32.38	PPTC091LGBN-RC
	10	.900 (22.86)	1.02 (25.90)	S5446-ND	.64	5.31	33.86	PPTC101LGBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S5447-ND	.70	5.80	37.00	PPTC111LGBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S5448-ND	.77	6.38	40.70	PPTC121LGBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S5449-ND	.83	6.90	44.03	PPTC131LGBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S5450-ND	.89	7.40	47.18	PPTC141LGBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S5451-ND	.96	7.92	50.51	PPTC151LGBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S5452-ND	.95	7.83	49.95	PPTC161LGBN-RC
	17	1.60 (40.64)	1.72 (43.68)	S5453-ND	1.01	8.35	53.28	PPTC171LGBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S5454-ND	1.07	8.85	56.43	PPTC181LGBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S5455-ND	1.13	9.37	59.76	PPTC191LGBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S5456-ND	1.18	9.80	62.53	PPTC201LGBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S5457-ND	1.24	10.30	65.68	PPTC211LGBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S5458-ND	1.31	10.82	69.01	PPTC221LGBN-RC
	23	2.20 (55.88)	2.32 (58.92)	S5459-ND	1.37	11.31	72.15	PPTC231LGBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S5460-ND	1.43	11.83	75.48	PPTC241LGBN-RC
	25	2.40 (60.96)	2.52 (64.00)	S5461-ND	1.48	12.27	78.26	PPTC251LGBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S5462-ND	1.54	12.76	81.40	PPTC261LGBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S5463-ND	1.60	13.28	84.73	PPTC271LGBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S5464-ND	1.66	13.78	87.88	PPTC281LGBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S5465-ND	1.80	14.94	95.28	PPTC291LGBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S5466-ND	1.87	15.49	98.79	PPTC301LGBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S5467-ND	1.93	16.01	102.12	PPTC311LGBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S5468-ND	2.03	16.79	107.12	PPTC321LGBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S5469-ND	2.03	16.79	107.12	PPTC331LGBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S5470-ND	2.12	17.55	111.93	PPTC341LGBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S5471-ND	2.21	18.30	116.74	PPTC351LGBN-RC
	36	3.50 (88.90)	3.62 (91.94)	S5472-ND	2.25	18.62	118.77	PPTC361LGBN-RC
	37	3.60 (91.44)	3.72 (94.48)	S5473-ND	2.31	19.14	122.10	PPTC371LGBN-RC
	38	3.70 (93.98)	3.82 (97.02)	S5474-ND	2.37	19.60	125.06	PPTC381LGBN-RC
	39	3.80 (96.52)	3.92 (99.56)	S5475-ND	2.43	20.13	128.39	PPTC391LGBN-RC
	40	3.90 (99.06)	4.02 (102.10)	S5476-ND	2.50	20.68	131.91	PPTC401LGBN-RC
Gold	2	.100 (2.54)	.220 (5.58)	S5477-ND	.27	2.20	14.06	PPPC021LGBN-RC
	3	.200 (5.08)	.320 (8.12)	S5478-ND	.36	2.99	19.06	PPPC031LGBN-RC
	4	.300 (7.62)	.420 (10.66)	S5479-ND	.48	3.97	25.35	PPPC041LGBN-RC
	5	.400 (10.16)	.520 (13.20)	S5480-ND	.51	4.21	26.83	PPPC051LGBN-RC
	6	.500 (12.70)	.620 (15.74)	S5481-ND	.55	4.58	29.23	PPPC061LGBN-RC
	7	.600 (15.24)	.720 (18.28)	S5482-ND	.57	4.73	30.16	PPPC071LGBN-RC
	8	.700 (17.78)	.820 (20.82)	S5483-ND	.58	4.81	30.71	PPPC081LGBN-RC
	9	.800 (20.32)	.920 (23.36)	S5484-ND	.64	5.34	34.04	PPPC091LGBN-RC
	10	.900 (22.86)	1.02 (25.90)	S5485-ND	.67	5.57	35.52	PPPC101LGBN-RC
	11	1.00 (25.40)	1.12 (28.44)	S5486-ND	.74	6.09	38.85	PPPC111LGBN-RC
	12	1.10 (27.94)	1.22 (30.98)	S5487-ND	.81	6.70	42.74	PPPC121LGBN-RC
	13	1.20 (30.48)	1.32 (33.52)	S5488-ND	.88	7.25	46.25	PPPC131LGBN-RC
	14	1.30 (33.02)	1.42 (36.06)	S5489-ND	.94	7.77	49.58	PPPC141LGBN-RC
	15	1.40 (35.56)	1.52 (38.60)	S5490-ND	.96	7.92	50.51	PPPC151LGBN-RC
	16	1.50 (38.10)	1.62 (41.14)	S5491-ND	.99	8.24	52.54	PPPC161LGBN-RC
	17	1.60 (40.64)	1.72 (43.68)	S5492-ND	1.06	8.76	55.87	PPPC171LGBN-RC
	18	1.70 (43.18)	1.82 (46.22)	S5493-ND	1.12	9.31	59.39	PPPC181LGBN-RC
	19	1.80 (45.72)	1.92 (48.76)	S5494-ND	1.19	9.83	62.72	PPPC191LGBN-RC
	20	1.90 (48.26)	2.02 (51.30)	S5495-ND	1.24	10.30	65.68	PPPC201LGBN-RC
	21	2.00 (50.80)	2.12 (53.84)	S5496-ND	1.31	10.82	69.01	PPPC211LGBN-RC
	22	2.10 (53.34)	2.22 (56.38)	S5497-ND	1.37	11.37	72.52	PPPC221LGBN-RC
	23	2.20 (55.88)	2.32 (58.92)	S5498-ND	1.44	11.89	75.85	PPPC231LGBN-RC
	24	2.30 (58.42)	2.42 (61.46)	S5499-ND	1.50	12.44	79.37	PPPC241LGBN-RC
	25	2.40 (60.96)	2.52 (64.00)	S5500-ND	1.55	12.88	82.14	PPPC251LGBN-RC
	26	2.50 (63.50)	2.62 (66.54)	S5501-ND	1.62	13.43	85.66	PPPC261LGBN-RC
	27	2.60 (66.04)	2.72 (69.08)	S5502-ND	1.68	13.95	88.99	PPPC271LGBN-RC
	28	2.70 (68.58)	2.82 (71.62)	S5503-ND	1.75	14.50	92.50	PPPC281LGBN-RC
	29	2.80 (71.12)	2.92 (74.16)	S5504-ND	1.80	14.94	95.28	PPPC291LGBN-RC
	30	2.90 (73.66)	3.02 (76.70)	S5505-ND	1.87	15.49	98.79	PPPC301LGBN-RC
	31	3.00 (76.20)	3.12 (79.24)	S5506-ND	1.93	16.01	102.12	PPPC311LGBN-RC
	32	3.10 (78.74)	3.22 (81.78)	S5507-ND	2.03	16.79	107.12	PPPC321LGBN-RC
	33	3.20 (81.28)	3.32 (84.32)	S5508-ND	2.03	16.79	107.12	PPPC331LGBN-RC
	34	3.30 (83.82)	3.42 (86.86)	S5509-ND	2.12	17.55	111.93	PPPC341LGBN-RC
	35	3.40 (86.36)	3.52 (89.40)	S5510-ND	2.21	18.30	116.74	PPPC351LGBN-RC
	36	3.50 (88.90)	3.62 (91.94)	S5511-ND	2.25	18.62	118.77	PPPC361LGBN-RC
	37	3.60 (91.44)	3.72 (94.48)	S5512-ND	2.31	19.14	122.10	PPPC371LGBN-RC
	38	3.70 (93.98)	3.82 (97.02)	S5513-ND	2.37	19.60	125.06	PPPC381LGBN-RC
	39	3.80 (96.52)	3.92 (99.56)	S5514-ND	2.43	20.13	128.39	PPPC391LGBN-RC
	40	3.90 (99.06)	4.02 (102.10)	S5515-ND	2.50	20.68	131.91	PPPC401LGBN-RC

Fig. 3 — Single Row Female Headers, SMT

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sullins Part No.
Tin	2	.100 (2.54)	.200 (5.08)	S4493-ND	.45	3.71	23.68	PPTC021KFXC
	3	.200 (5.08)	.300 (7.62)	S4494-ND	.70	5.77	36.82	PPTC031KFXC
	4	.300 (7.62)	.400 (10.16)	S4495-ND	.91	7.54	48.10	PPTC041KFXC
	5	.400 (10.16)	.500 (12.70)	S4496-ND	.96	7.95	50.69	PPTC051KFXC
	8	.700 (17.78)	.800 (20.32)	S4499-ND	1.53	12.70	81.03	PPTC081KFXC
	9	.800 (20.32)	.900 (22.86)	S4500-ND	1.73	14.30	91.21	PPTC091KFXC
	10	.900 (22.86)	1.00 (25.40)	S4501-ND	1.92	15.92	101.57	PPTC101KFXC
	11	1.00 (25.40)	1.10 (27.94)	S4502-ND	1.76	14.56	92.87	PPTC111KFXC
	12	1.10 (27.94)	1.20 (30.48)	S4503-ND	1.92	15.92	101.57	PPTC121KFXC
	13	1.20 (30.48)	1.30 (33.02)	S4504-ND	2.08	17.20	109.71	PPTC131KFXC
	14	1.30 (33.02)	1.40 (35.56)	S4505-ND	2.24	18.53	118.22	PPTC141KFXC
	15	1.40 (35.56)	1.50 (38.10)	S4506-ND	2.39	19.81	126.36	PPTC151KFXC
	16	1.50 (38.10)	1.60 (40.64)	S4507-ND	2.56	21.17	135.05	PPTC161KFXC
	17	1.60 (40.64)	1.70 (43.18)	S4508-ND	2.72	22.53	143.75	PPTC171KFXC
	18	1.70 (43.18)	1.80 (45.72)	S4509-ND	2.87	23.81	151.89	PPTC181KFXC
	19	1.80 (45.72)	1.90 (48.26)	S4510-ND	3.03	25.14	160.40	PPTC191KFXC
	20	1.90 (48.26)	2.00 (50.80)	S4511-ND	3.20	26.51	169.09	PPTC201KFXC
	21	2.00 (50.80)	2.10 (53.34)	S4512-ND	3.13	25.93	165.39	PPTC211KFXC
	22	2.10 (53.34)	2.20 (55.88)	S4513-ND	3.28	27.17	173.35	PPTC221KFXC
	23	2.20 (55.88)	2.30 (58.42)	S4514-ND	3.42	28.36	180.93	PPTC231KFXC
	24	2.30 (58.42)	2.40 (60.96)	S4515-ND	3.58	29.64	189.07	PPTC241KFXC
	25	2.40 (60.96)	2.50 (63.50)	S4516-ND	3.73	30.91	197.21	PPTC251KFXC
	26	2.50 (63.50)	2.60 (66.04)	S4517-ND	3.87	32.10	204.80	PPTC261KFXC
	27	2.60 (66.04)	2.70 (68.58)	S4518-ND	4.03	33.35	212.75	PPTC271KFXC
	28	2.70 (68.58)	2.80 (71.12)	S4519-ND	4.17	34.54	220.34	PPTC281KFXC
	29	2.80 (71.12)	2.90 (73.66)	S4520-ND	4.32	35.82	228.48	PPTC291KFXC
	30	2.90 (73.66)	3.00 (76.20)	S4521-ND	4.48	37.09	236.62	PPTC301KFXC
	31	3.00 (76.20)	3.10 (78.74)	S4522-ND	4.62	38.28	244.20	PPTC311KFXC
	32	3.10 (78.74)	3.20 (81.28)	S4523-ND	4.77	39.56	252.34	PPTC321KFXC
	33	3.20 (81.28)	3.30 (83.82)	S4524-ND	4.92	40.75	259.93	PPTC331KFXC
	34	3.30 (83.82)	3.40 (86.36)	S4525-ND	5.07	41.99	267.88	PPTC341KFXC
	35	3.40 (86.36)	3.50 (88.90)	S4526-ND	5.21	43.18	275.47	PPTC351KFXC
	36	3.50 (88.90)	3.60 (91.44)	S4527-ND	5.37	44.46	283.61	PPTC361KFXC
	37	3.60 (91.44)	3.70 (93.98)	S4528-ND	5.52	45.73	291.75	PPTC371KFXC
	38	3.70 (93.98)	3.80 (96.52)	S4529-ND	5.66	46.92	299.33	PPTC381KFXC
	39	3.80 (96.52)	3.90 (99.06)	S4530-ND	5.81	48.17	307.29	PPTC391KFXC
	40	3.90 (99.06)	4.00 (101.60)	S4531-ND	5.96	49.36	314.87	PPTC401KFXC
Gold	2	.100 (2.54)	.200 (5.08)	S4532-ND	.45	3.71	23.68	PPPC021KFXC
	3	.200 (5.08)	.300 (7.62)	S4533-ND	.70	5.77	36.82	PPPC031KFXC
	4	.300 (7.62)	.400 (10.16)	S4534-ND	.91	7.54	48.10	PPPC041KFXC
	5	.400 (10.16)	.500 (12.70)	S4535-ND	.96	7.95	50.69	PPPC051KFXC
	6	.500 (12.70)	.600 (15.24)	S4536-ND	1.16	9.57	61.05	PPPC061KFXC
	7	.600 (15.24)	.700 (17.78)	S4537-ND	1.34	11.11	70.86	PPPC071KFXC
	8	.700 (17.78)	.800 (20.32)	S4538-ND	1.53	12.70	81.03	PPPC081KFXC
	9	.800 (20.32)	.900 (22.86)	S4539-ND	1.73	14.30	91.21	PPPC091KFXC
	10	.900 (22.86)	1.00 (25.40)	S4540-ND	1.92	15.92	101.57	PPPC101KFXC
	11	1.00 (25.40)	1.10 (27.94)	S4541-ND	1.76	14.56	92.87	PPPC111KFXC
	12	1.10 (27.94)	1.20 (30.48)	S4542-ND	1.92	15.92	101.57	PPPC121KFXC
	13	1.20 (30.48)	1.30 (33.02)	S4543-ND	2.08	17.20	109.71	PPPC131KFXC
	14	1.30 (33.02)	1.40 (35.56)	S4544-ND	2.24	18.53	118.22	PPPC141KFXC
	15	1.40 (35.56)	1.50 (38.10)	S4545-ND	2.39	19.81	126.36	PPPC151KFXC
	17	1.60 (40.64)	1.70 (43.18)	S4547-ND	2.72	22.53	143.75	PPPC171KFXC
	19	1.80 (45.72)	1.90 (48.26)	S4549-ND	3.03	25.14	160.40	PPPC191KFXC
	21	2.00 (50.80)	2.10 (53.34)	S4551-ND	3.13	25.93	165.39	PPPC211KFXC
	22	2.10 (53.34)	2.20 (55.88)	S4552-ND	3.28	27.17	173.35	PPPC221KFXC
	23	2.20 (55.88)	2.30 (58.42)	S4553-ND	3.42	28.36	180.93	PPPC231KFXC
	24	2.30 (58.42)	2.40 (60.96)	S4554-ND	3.58	29.64	189.07	PPPC241KFXC
	25	2.40 (60.96)	2.50 (63.50)	S4555-ND	3.73	30.91	197.21	PPPC251KFXC
	26	2.50 (63.50)	2.60 (66.04)	S4556-ND	3.87	32.10	204.80	PPPC261KFXC
	27	2.60 (66.04)	2.70 (68.58)	S4557-ND	4.03	33.35	212.75	PPPC271KFXC
	28	2.70 (68.58)	2.80 (71.12)	S4558-ND	4.17	34.54	220.34	PPPC281KFXC
	29	2.80 (71.12)	2.90 (73.66)	S4559-ND	4.32	35.82	228.48	PPPC291KFXC
	30	2.90 (73.66)	3.00 (76.20)	S4560-ND	4.48	37.09	236.62	PPPC301KFXC
	31	3.00 (76.20)	3.10 (78.74)	S4561-ND	4.62	38.28	244.20	PPPC311KFXC
	32	3.10 (78.74)	3.20 (81.28)	S4562-ND	4.77	39.56	252.34	PPPC321KFXC
	33	3.20 (81.28)	3.30 (83.82)	S4563-ND	4.92	40.75	259.93	PPPC331KFXC
	34	3.30 (83.82)	3.40 (86.36)	S4564-ND	5.07	41.99	267.88	PPPC341KFXC
	35	3.40 (86.36)	3.50 (88.90)	S4565-ND	5.21	43.18	275.47	PPPC351KFXC
	36	3.50 (88.90)	3.60 (91.44)	S4566-ND	5.37	44.46	283.61	PPPC361KFXC
	37	3.60 (91.44)	3.70 (93.98)	S4567-ND	5.52	45.73	291.75	PPPC371KFXC
	38	3.70 (93.98)	3.80 (96.52)	S4568-ND	5.66	46.92	299.33	PPPC381KFXC
	39	3.80 (96.52)	3.90 (99.06)	S4569-ND	5.81	48.17	307.29	PPPC391KFXC
	40	3.90 (99.06)	4.00 (101.60)	S4570-ND	5.96	49.36	314.87	PPPC401KFXC

Fig. 3 — Single Row Female Headers, SMT, RoHS Compliant

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sullins Part No.
Tin	2	.100 (2.54)	.200 (5.08)	S5594-ND	.41	3.36	21.46	NPTC021KFXC-RC
	3	.200 (5.08)	.300 (7.62)	S5595-ND	.63	5.19	33.12	NPTC031KFXC-RC
	4	.300 (7.62)	.400 (10.16)	S5596-ND	.82	6.79	43.29	NPTC041KFXC-RC

(Continued)

Sullins .1” (2.54mm) Female Headers *(Cont.)*

Contact Finish	No. of Contacts	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
		A	B		1	10	100	
Tin	5	.400 (10.16)	.500 (12.70)	S5597-ND	.86	7.16	45.70	NPTC051KFXC-RC
	6	.500 (12.70)	.600 (15.24)	S5598-ND	1.04	8.61	54.95	NPTC061KFXC-RC
	7	.600 (15.24)	.700 (17.78)	S5599-ND	1.21	10.01	63.83	NPTC071KFXC-RC
	8	.700 (17.78)	.800 (20.32)	S5600-ND	1.38	11.46	73.08	NPTC081KFXC-RC
	9	.800 (20.32)	.900 (22.86)	S5601-ND	1.55	12.88	82.14	NPTC091KFXC-RC
	10	.900 (22.86)	1.00 (25.40)	S5602-ND	1.73	14.33	91.39	NPTC101KFXC-RC
	11	1.00 (25.40)	1.10 (27.94)	S5603-ND	1.58	13.11	83.62	NPTC111KFXC-RC
	12	1.10 (27.94)	1.20 (30.48)	S5604-ND	1.73	14.33	91.39	NPTC121KFXC-RC
	13	1.20 (30.48)	1.30 (33.02)	S5605-ND	1.87	15.49	98.79	NPTC131KFXC-RC
	14	1.30 (33.02)	1.40 (35.56)	S5606-ND	2.02	16.70	106.56	NPTC141KFXC-RC
	15	1.40 (35.56)	1.50 (38.10)	S5607-ND	2.15	17.84	113.78	NPTC151KFXC-RC
	16	1.50 (38.10)	1.60 (40.64)	S5608-ND	2.30	19.08	121.73	NPTC161KFXC-RC
	17	1.60 (40.64)	1.70 (43.18)	S5609-ND	2.45	20.30	129.50	NPTC171KFXC-RC
	18	1.70 (43.18)	1.80 (45.72)	S5610-ND	2.59	21.43	136.72	NPTC181KFXC-RC
	19	1.80 (45.72)	1.90 (48.26)	S5611-ND	2.73	22.65	144.49	NPTC191KFXC-RC
	20	1.90 (48.26)	2.00 (50.80)	S5612-ND	2.88	23.87	152.26	NPTC201KFXC-RC
	21	2.00 (50.80)	2.10 (53.34)	S5613-ND	2.82	23.35	148.93	NPTC211KFXC-RC
	22	2.10 (53.34)	2.20 (55.88)	S5614-ND	2.95	24.48	156.14	NPTC221KFXC-RC
	23	2.20 (55.88)	2.30 (58.42)	S5615-ND	3.08	25.55	162.99	NPTC231KFXC-RC
	24	2.30 (58.42)	2.40 (60.96)	S5616-ND	3.22	26.71	170.39	NPTC241KFXC-RC
	25	2.40 (60.96)	2.50 (63.50)	S5617-ND	3.36	27.84	177.60	NPTC251KFXC-RC
	26	2.50 (63.50)	2.60 (66.04)	S5618-ND	3.49	28.91	184.45	NPTC261KFXC-RC
	27	2.60 (66.04)	2.70 (68.58)	S5619-ND	3.63	30.04	191.66	NPTC271KFXC-RC
	28	2.70 (68.58)	2.80 (71.12)	S5620-ND	3.76	31.12	198.51	NPTC281KFXC-RC
	29	2.80 (71.12)	2.90 (73.66)	S5621-ND	3.89	32.25	205.72	NPTC291KFXC-RC
	30	2.90 (73.66)	3.00 (76.20)	S5622-ND	4.03	33.41	213.12	NPTC301KFXC-RC
	31	3.00 (76.20)	3.10 (78.74)	S5623-ND	4.16	34.48	219.97	NPTC311KFXC-RC
	32	3.10 (78.74)	3.20 (81.28)	S5624-ND	4.30	35.61	227.18	NPTC321KFXC-RC
	33	3.20 (81.28)	3.30 (83.82)	S5625-ND	4.43	36.69	234.03	NPTC331KFXC-RC
	34	3.30 (83.82)	3.40 (86.36)	S5626-ND	4.56	37.82	241.24	NPTC341KFXC-RC
	35	3.40 (86.36)	3.50 (88.90)	S5627-ND	4.69	38.89	248.09	NPTC351KFXC-RC
	36	3.50 (88.90)	3.60 (91.44)	S5628-ND	4.83	40.05	255.49	NPTC361KFXC-RC
	37	3.60 (91.44)	3.70 (93.98)	S5629-ND	4.97	41.18	262.70	NPTC371KFXC-RC
	38	3.70 (93.98)	3.80 (96.52)	S5630-ND	5.10	42.25	269.55	NPTC381KFXC-RC
	39	3.80 (96.52)	3.90 (99.06)	S5631-ND	5.24	43.38	276.76	NPTC391KFXC-RC
	40	3.90 (99.06)	4.00 (101.60)	S5632-ND	5.37	44.46	283.61	NPTC401KFXC-RC
Gold	2	.100 (2.54)	.200 (5.08)	S5633-ND	.41	3.36	21.46	NPPC021KFXC-RC
	3	.200 (5.08)	.300 (7.62)	S5634-ND	.63	5.19	33.12	NPPC031KFXC-RC
	4	.300 (7.62)	.400 (10.16)	S5635-ND	.82	6.79	43.29	NPPC041KFXC-RC
	5	.400 (10.16)	.500 (12.70)	S5636-ND	.86	7.16	45.70	NPPC051KFXC-RC
	6	.500 (12.70)	.600 (15.24)	S5637-ND	1.04	8.61	54.95	NPPC061KFXC-RC
	7	.600 (15.24)	.700 (17.78)	S5638-ND	1.21	10.01	63.83	NPPC071KFXC-RC
	8	.700 (17.78)	.800 (20.32)	S5639-ND	1.38	11.46	73.08	NPPC081KFXC-RC
	9	.800 (20.32)	.900 (22.86)	S5640-ND	1.55	12.88	82.14	NPPC091KFXC-RC
	10	.900 (22.86)	1.00 (25.40)	S5641-ND	1.73	14.33	91.39	NPPC101KFXC-RC
	11	1.00 (25.40)	1.10 (27.94)	S5642-ND	1.58	13.11	83.62	NPPC111KFXC-RC
	12	1.10 (27.94)	1.20 (30.48)	S5643-ND	1.73	14.33	91.39	NPPC121KFXC-RC
	13	1.20 (30.48)	1.30 (33.02)	S5644-ND	1.87	15.49	98.79	NPPC131KFXC-RC
	14	1.30 (33.02)	1.40 (35.56)	S5645-ND	2.02	16.70	106.56	NPPC141KFXC-RC
	15	1.40 (35.56)	1.50 (38.10)	S5646-ND	2.15	17.84	113.78	NPPC151KFXC-RC
	16	1.50 (38.10)	1.60 (40.64)	S5647-ND	2.30	19.08	121.73	NPPC161KFXC-RC
	17	1.60 (40.64)	1.70 (43.18)	S5648-ND	2.45	20.30	129.50	NPPC171KFXC-RC
	18	1.70 (43.18)	1.80 (45.72)	S5649-ND	2.59	21.43	136.72	NPPC181KFXC-RC
	19	1.80 (45.72)	1.90 (48.26)	S5650-ND	2.73	22.65	144.49	NPPC191KFXC-RC
	20	1.90 (48.26)	2.00 (50.80)	S5651-ND	2.88	23.87	152.26	NPPC201KFXC-RC
	21	2.00 (50.80)	2.10 (53.34)	S5652-ND	2.82	23.35	148.93	NPPC211KFXC-RC
	22	2.10 (53.34)	2.20 (55.88)	S5653-ND	2.95	24.48	156.14	NPPC221KFXC-RC
	23	2.20 (55.88)	2.30 (58.42)	S5654-ND	3.08	25.55	162.99	NPPC231KFXC-RC
	24	2.30 (58.42)	2.40 (60.96)	S5655-ND	3.22	26.71	170.39	NPPC241KFXC-RC
	25	2.40 (60.96)	2.50 (63.50)	S5656-ND	3.36	27.84	177.60	NPPC251KFXC-RC
	26	2.50 (63.50)	2.60 (66.04)	S5657-ND	3.49	28.91	184.45	NPPC261KFXC-RC
	27	2.60 (66.04)	2.70 (68.58)	S5658-ND	3.63	30.04	191.66	NPPC271KFXC-RC
	28	2.70 (68.58)	2.80 (71.12)	S5659-ND	3.76	31.12	198.51	NPPC281KFXC-RC
	29	2.80 (71.12)	2.90 (73.66)	S5660-ND	3.89	32.25	205.72	NPPC291KFXC-RC
	30	2.90 (73.66)	3.00 (76.20)	S5661-ND	4.03	33.41	213.12	NPPC301KFXC-RC
	31	3.00 (76.20)	3.10 (78.74)	S5662-ND	4.16	34.48	219.97	NPPC311KFXC-RC
	32	3.10 (78.74)	3.20 (81.28)	S5663-ND	4.30	35.61	227.18	NPPC321KFXC-RC
	33	3.20 (81.28)	3.30 (83.82)	S5664-ND	4.43	36.69	234.03	NPPC331KFXC-RC
	34	3.30 (83.82)	3.40 (86.36)	S5665-ND	4.56	37.82	241.24	NPPC341KFXC-RC
	35	3.40 (86.36)	3.50 (88.90)	S5666-ND	4.69	38.89	248.09	NPPC351KFXC-RC
	36	3.50 (88.90)	3.60 (91.44)	S5667-ND	4.83	40.05	255.49	NPPC361KFXC-RC
	37	3.60 (91.44)	3.70 (93.98)	S5668-ND	4.97	41.18	262.70	NPPC371KFXC-RC
	38	3.70 (93.98)	3.80 (96.52)	S5669-ND	5.10	42.25	269.55	NPPC381KFXC-RC
	39	3.80 (96.52)	3.90 (99.06)	S5670-ND	5.24	43.38	276.76	NPPC391KFXC-RC
	40	3.90 (99.06)	4.00 (101.60)	S5671-ND	5.37	44.46	283.61	NPPC401KFXC-RC
Fig. 4 — Dual Row Female Headers								
Tin	24	1.10 (27.94)	1.22 (30.98)	S4212-ND	1.09	8.99	57.35	PPTC122LFBN
	36	1.70 (43.18)	1.82 (46.22)	S4218-ND	1.65	13.63	86.95	PPTC182LFBN
	46	2.20 (55.88)	2.32 (58.92)	S4223-ND	1.89	15.66	99.90	PPTC232LFBN
	54	2.60 (66.04)	2.72 (69.08)	S4227-ND	2.22	18.42	117.48	PPTC272LFBN
	56	2.70 (68.58)	2.82 (71.62)	S4228-ND	2.31	19.14	122.10	PPTC282LFBN
	60	2.90 (73.66)	3.02 (76.70)	S4230-ND	2.45	20.30	129.50	PPTC302LFBN
	62	3.00 (76.20)	3.12 (79.24)	S4231-ND	2.56	21.17	135.05	PPTC312LFBN
	66	3.20 (81.28)	3.32 (84.32)	S4233-ND	2.71	22.48	143.38	PPTC332LFBN
Gold	4	.100 (2.54)	.220 (5.58)	S4302-ND	.42	3.48	22.20	PPPC022LFBN
	18	.800 (20.32)	.920 (23.36)	S4309-ND	1.40	11.60	74.00	PPPC092LFBN
	20	.900 (22.86)	1.02 (25.90)	S4310-ND	.98	8.12	51.80	PPPC102LFBN
	42	2.00 (50.80)	2.12 (53.84)	S4321-ND	1.79	14.79	94.35	PPPC212LFBN
	48	2.30 (58.42)	2.42 (61.46)	S4324-ND	1.96	16.24	103.60	PPPC242LFBN
	54	2.60 (66.04)	2.72 (69.08)	S4327-ND	2.22	18.42	117.48	PPPC272LFBN
	56	2.70 (68.58)	2.82 (71.62)	S4328-ND	2.31	19.14	122.10	PPPC282LFBN
	58	2.80 (71.12)	2.92 (74.16)	S4329-ND	2.38	19.72	125.80	PPPC292LFBN
	60	2.90 (73.66)	3.02 (76.70)	S4330-ND	2.45	20.30	129.50	PPPC302LFBN
	66	3.20 (81.28)	3.32 (84.32)	S4333-ND	2.71	22.48	143.38	PPPC332LFBN
Fig. 4 — Dual Row Female Headers, RoHS Compliant								
Tin	4	.100 (2.54)	.220 (5.58)	S7070-ND	.42	3.48	22.20	PPTC022LFBN-RC
	6	.200 (5.08)	.320 (8.12)	S7071-ND	.58	4.79	30.53	PPTC032LFBN-RC
	8	.300 (7.62)	.420 (10.66)	S7072-ND	.77	6.38	40.70	PPTC042LFBN-RC
	10	.400 (10.16)	.520 (13.20)	S6105-ND	.78	6.47	41.26	PPTC052LFBN-RC
	12	.500 (12.70)	.620 (15.74)	S7074-ND	.93	7.69	49.03	PPTC062LFBN-RC
	14	.600 (15.24)	.720 (18.28)	S7075-ND	1.09	8.99	57.35	PPTC072LFBN-RC
	16	.700 (17.78)	.820 (20.82)	S7076-ND	1.24	10.30	65.68	PPTC082LFBN-RC
	18	.800 (20.32)	.920 (23.36)	S7077-ND	1.39	11.54	73.63	PPTC092LFBN-RC
	20	.900 (22.86)	1.02 (25.90)	S7078-ND	.91	7.54	48.10	PPTC102LFBN-RC
	22	1.00 (25.40)	1.12 (28.44)	S7079-ND	1.01	8.35	53.28	PPTC112LFBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S7080-ND	1.10	9.08	57.91	PPTC122LFBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S7081-ND	1.18	9.80	62.53	PPTC132LFBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S7082-ND	1.28	10.59	67.53	PPTC142LFBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S7083-ND	1.44	11.89	75.85	PPTC152LFBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S7084-ND	1.54	12.73	81.22	PPTC162LFBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S7085-ND	1.63	13.51	86.21	PPTC172LFBN-RC
	36	1.70 (43.18)	1.82 (46.22)	S7086-ND	1.73	14.33	91.39	PPTC182LFBN-RC
	38	1.80 (45.72)	1.92 (48.76)	S7087-ND	1.82	15.11	96.39	PPTC192LFBN-RC
	40	1.90 (48.26)	2.02 (51.30)	S6104-ND	1.73	14.33	91.39	PPTC202LFBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S7089-ND	1.81	15.02	95.83	PPTC212LFBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S7090-ND	1.90	15.72	100.27	PPTC222LFBN-RC
	46	2.20 (55.88)	2.32 (58.92)	S7091-ND	1.99	16.47	105.08	PPTC232LFBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S7092-ND	2.07	17.17	109.52	PPTC242LFBN-RC
	50	2.40 (60.96)	2.52 (64.00)	S7093-ND	2.15	17.84	113.78	PPTC252LFBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S7094-ND	2.25	18.62	118.77	PPTC262LFBN-RC
	54	2.60 (66.04)	2.72 (69.08)	S7095-ND	2.33	19.29	123.03	PPTC272LFBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S7096-ND	2.42	20.07	128.02	PPTC282LFBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S7097-ND	2.50	20.74	132.28	PPTC292LFBN-RC
	60	2.90 (73.66)	3.02 (76.70)	S7098-ND	2.59	21.43	136.72	PPTC302LFBN-RC
	62	3.00 (76.20)	3.12 (79.24)	S7099-ND	2.68	22.19	141.53	PPTC312LFBN-RC
	64	3.10 (78.74)	3.22 (81.78)	S7100-ND	2.76	22.88	145.97	PPTC322LFBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S7101-ND	2.85	23.58	150.41	PPTC332LFBN-RC
	68	3.30 (83.82)	3.42 (86.86)	S7102-ND	2.94	24.33	155.22	PPTC342LFBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S7103-ND	3.02	25.03	159.66	PPTC352LFBN-RC
	72	3.50 (88.90)	3.62 (91.94)	S7104-ND	3.11	25.78	164.47	PPTC362LFBN-RC
Gold	4	.100 (2.54)	.220 (5.58)	S7105-ND	.42	3.48	22.20	PPPC022LFBN-RC
	6	.200 (5.08)	.320 (8.12)	S7106-ND	.58	4.79	30.53	PPPC032LFBN-RC
	8	.300 (7.62)	.420 (10.66)	S7107-ND	.77	6.38	40.70	PPPC042LFBN-RC
	10	.400 (10.16)	.520 (13.20)	S7108-ND	.78	6.47	41.26	PPPC052LFBN-RC
	12	.500 (12.70)	.620 (15.74)	S7109-ND	.93	7.69	49.03	PPPC062LFBN-RC
	14	.600 (15.24)	.720 (18.28)	S7110-ND	1.09	8.99	57.35	PPPC072LFBN-RC
	16	.700 (17.78)	.820 (20.82)	S7111-ND	1.24	10.30	65.68	PPPC082LFBN-RC
	18	.800 (20.32)	.920 (23.36)	S7112-ND	1.39	11.54	73.63	PPPC092LFBN-RC
	20	.900 (22.86)	1.02 (25.90)	S6106-ND	.96	7.95	50.69	PPPC102LFBN-RC
	22	1.00 (25.40)	1.12 (28.44)	S7114-ND	1.06	8.76	55.87	PPPC112LFBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S7115-ND	1.10	9.08	57.91	PPPC122LFBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S7116-ND	1.18	9.80	62.53	PPPC132LFBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S7117-ND	1.34	11.14	71.04	PPPC142LFBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S7118-ND	1.37	11.31	72.15	PPPC152LFBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S7119-ND	1.46	12.12	77.33	PPPC162LFBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S7120-ND	1.55	12.85	81.96	PPPC172LFBN-RC
	36	1.70 (43.18)	1.82 (46.22)	S7121-ND	1.73	14.33	91.39	PPPC182LFBN-RC
	38	1.80 (45.72)	1.92 (48.76)	S7122-ND	1.73	14.36	91.58	PPPC192LFBN-RC
	40	1.90 (48.26)	2.02 (51.30)	S7123-ND	1.73	14.33	91.39	PPPC202LFBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S7124-ND	1.81	15.02	95.83	PPPC212LFBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S7125-ND	1.90	15.72	100.27	PPPC222LFBN-RC
	46	2.20 (55.88)	2.32 (58.92)	S7126-ND	1.99	16.47	105.08	PPPC232LFBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S7127-ND	2.07	17.17	109.52	PPPC242LFBN-RC
	50	2.40 (60.96)	2.52 (64.00)	S7128-ND	2.15	17.84	113.78	PPPC252LFBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S7129-ND	2.25	18.62	118.77	PPPC262LFBN-RC
	54	2.60 (66.04)	2.72 (69.08)	S7130-ND	2.33	19.29	123.03	PPPC272LFBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S7131-ND	2.42	20.07	128.02	PPPC282LFBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S7132-ND	2.50	20.74	132.28	PPPC292LFBN-RC
	60	2.90 (73.66)	3.02 (76.70)	S7133-ND	2.59	21.43	136.72	PPPC302LFBN-RC
	62	3.00 (76.20)	3.12 (79.24)	S7134-ND	2.68	22.19	141.53	PPPC312LFBN-RC
	64	3.10 (78.74)	3.22 (81.78)	S7135-ND	2.76	22.88	145.97	PPPC322LFBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S7136-ND	2.85	23.58	150.41	PPPC332LFBN-RC
	68	3.30 (83.82)	3.42 (86.86)	S7137-ND	2.94	24.33	155.22	PPPC342LFBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S7138-ND	3.02	25.03	159.66	PPPC352LFBN-RC
	72	3.50 (88.90)	3.62 (91.94)	S7139-ND	3.11	25.78	164.47	PPPC362LFBN-RC
Fig. 5 — Dual Row Female Headers, Right Angle, RoHS Compliant								
Tin	4	.100 (2.54)	.220 (5.58)	S5516-ND	.51	4.21	26.83	PPTC022LJBN-RC
	6	.200 (5.08)	.320 (8.12)	S5517-ND	.68	5.66	36.08	PPTC032LJBN-RC
	8	.300 (7.62)	.420 (10.66)	S5518-ND	.91	7.54	48.10	PPTC042LJBN-RC
	10	.400 (10.16)	.520 (13.20)	S5519-ND	.96	7.92	50.51	PPTC052LJBN-RC
	12	.500 (12.70)	.620 (15.74)	S5520-ND	1.10	9.08	57.91	PPTC062LJBN-RC
	14	.600 (15.24)	.720 (18.28)	S5521-ND	1.09	8.99	57.35	PPTC072LJBN-RC
	16	.700 (17.78)	.820 (20.82)	S5522-ND	1.10	9.08	57.91	PPTC082LJBN-RC
	18	.800 (20.32)	.920 (23.36)	S5523-ND	1.24	10.24	65.31	PPTC092LJBN-RC
	20	.900 (22.86)	1.02 (25.90)	S5524-ND	1.28	10.59	67.53	PPTC102LJBN-RC
	22	1.00 (25.40)	1.12 (28.44)	S5525-ND	1.40	11.60	74.00	PPTC112LJBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S5526-ND	1.53	12.70	81.03	PPTC122LJBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S5527-ND	1.66	13.78	87.88	PPTC132LJBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S5528-ND	1.79	14.79	94.35	PPTC142LJBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S5529-ND	2.02	16.70	106.56	PPTC152LJBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S5530-ND	2.00	16.56	105.64	PPTC162LJBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S5531-ND	2.12	17.55	111.93	PPTC172LJBN-RC
	36	1.70 (43.18)	1.82 (46.22)	S5532-ND	2.25	18.62	118.77	PPTC182LJBN-RC
	38	1.80 (45.72)	1.92 (48.76)	S5533-ND	2.37	19.60	125.06	PPTC192LJBN-RC
	40	1.90 (48.26)	2.02 (51.30)	S5534-ND	2.50	20.68	131.91	PPTC202LJBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S5535-ND	2.61	21.66	138.20	PPTC212LJBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S5536-ND	2.74	22.74	145.04	PPTC222LJBN-RC
	46	2.20 (55.88)	2.32 (58.92)	S5537-ND	2.86	23.72	151.33	PPTC232LJBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S5538-ND	2.99	24.80	158.18	PPTC242LJBN-RC
	50	2.40 (60.96)	2.52 (64.00)	S5539-ND	3.12	25.87	165.02	PPTC252LJBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S5540-ND	3.24	26.85	171.31	PPTC262LJBN-RC
	54	2.60 (66.04)	2.72 (69.08)	S5541-ND	3.37	27.93	178.16	PPTC272LJBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S5542-ND	3.49	28.91	184.45	PPTC282LJBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S5543-ND	3.62	29.99	191.29	PPTC292LJBN-RC
	60	2.90 (73.66)	3.02 (76.70)	S5544-ND	3.74	30.97	197.58	PPTC302LJBN-RC

(Continued)

Sullins .1” (2.54mm) Female Headers *(Cont.)*

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	Sullins Part No.
Tin	62	3.00 (76.20)	3.12 (79.24)	S5545-ND	3.87	32.05	204.43	PPTC312LJBN-RC
	64	3.10 (78.74)	3.22 (81.78)	S5546-ND	3.99	33.03	210.72	PPTC322LJBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S5547-ND	4.12	34.10	217.56	PPTC332LJBN-RC
	68	3.30 (83.82)	3.42 (86.86)	S5548-ND	4.24	35.09	223.85	PPTC342LJBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S5549-ND	4.36	36.16	230.70	PPTC352LJBN-RC
	72	3.50 (88.90)	3.62 (91.94)	S5550-ND	4.49	37.21	237.36	PPTC362LJBN-RC
	74	3.60 (91.44)	3.72 (94.48)	S5551-ND	4.61	38.22	243.83	PPTC372LJBN-RC
	76	3.70 (93.98)	3.82 (97.02)	S5552-ND	4.74	39.27	250.49	PPTC382LJBN-RC
	78	3.80 (96.52)	3.92 (99.56)	S5553-ND	4.86	40.28	256.97	PPTC392LJBN-RC
	80	3.90 (99.06)	4.02 (102.10)	S5554-ND	4.99	41.33	263.63	PPTC402LJBN-RC
Gold	4	.100 (2.54)	.220 (5.58)	S5555-ND	.54	4.44	28.31	PPPC022LJBN-RC
	6	.200 (5.08)	.320 (8.12)	S5556-ND	.72	5.95	37.93	PPPC032LJBN-RC
	8	.300 (7.62)	.420 (10.66)	S5557-ND	.96	7.95	50.69	PPPC042LJBN-RC
	10	.400 (10.16)	.520 (13.20)	S5558-ND	1.00	8.32	53.10	PPPC052LJBN-RC
	12	.500 (12.70)	.620 (15.74)	S5559-ND	1.10	9.08	57.91	PPPC062LJBN-RC
	14	.600 (15.24)	.720 (18.28)	S5560-ND	1.14	9.45	60.31	PPPC072LJBN-RC
	16	.700 (17.78)	.820 (20.82)	S5561-ND	1.15	9.54	60.87	PPPC082LJBN-RC
	18	.800 (20.32)	.920 (23.36)	S5562-ND	1.30	10.76	68.64	PPPC092LJBN-RC
	20	.900 (22.86)	1.02 (25.90)	S5563-ND	1.34	11.14	71.04	PPPC102LJBN-RC
	22	1.00 (25.40)	1.12 (28.44)	S5564-ND	1.47	12.21	77.89	PPPC112LJBN-RC
	24	1.10 (27.94)	1.22 (30.98)	S5565-ND	1.61	13.34	85.10	PPPC122LJBN-RC
	26	1.20 (30.48)	1.32 (33.52)	S5566-ND	1.75	14.50	92.50	PPPC132LJBN-RC
	28	1.30 (33.02)	1.42 (36.06)	S5567-ND	1.88	15.57	99.35	PPPC142LJBN-RC
	30	1.40 (35.56)	1.52 (38.60)	S5568-ND	1.92	15.89	101.38	PPPC152LJBN-RC
	32	1.50 (38.10)	1.62 (41.14)	S5569-ND	2.00	16.56	105.64	PPPC162LJBN-RC
	34	1.60 (40.64)	1.72 (43.68)	S5570-ND	2.12	17.55	111.93	PPPC172LJBN-RC
	36	1.70 (43.18)	1.82 (46.22)	S5571-ND	2.25	18.62	118.77	PPPC182LJBN-RC
	38	1.80 (45.72)	1.92 (48.76)	S5572-ND	2.37	19.60	125.06	PPPC192LJBN-RC
	40	1.90 (48.26)	2.02 (51.30)	S5573-ND	2.50	20.68	131.91	PPPC202LJBN-RC
	42	2.00 (50.80)	2.12 (53.84)	S5574-ND	2.61	21.66	138.20	PPPC212LJBN-RC
	44	2.10 (53.34)	2.22 (56.38)	S5575-ND	2.74	22.74	145.04	PPPC222LJBN-RC
	46	2.20 (55.88)	2.32 (58.92)	S5576-ND	2.86	23.72	151.33	PPPC232LJBN-RC
	48	2.30 (58.42)	2.42 (61.46)	S5577-ND	2.99	24.80	158.18	PPPC242LJBN-RC
	50	2.40 (60.96)	2.52 (64.00)	S5578-ND	3.12	25.87	165.02	PPPC252LJBN-RC
	52	2.50 (63.50)	2.62 (66.54)	S5579-ND	3.24	26.85	171.31	PPPC262LJBN-RC
	54	2.60 (66.04)	2.72 (69.08)	S5580-ND	3.37	27.93	178.16	PPPC272LJBN-RC
	56	2.70 (68.58)	2.82 (71.62)	S5581-ND	3.49	28.91	184.45	PPPC282LJBN-RC
	58	2.80 (71.12)	2.92 (74.16)	S5582-ND	3.62	29.99	191.29	PPPC292LJBN-RC
	60	2.90 (73.66)	3.02 (76.70)	S5583-ND	3.74	30.97	197.58	PPPC302LJBN-RC
	62	3.00 (76.20)	3.12 (79.24)	S5584-ND	3.87	32.05	204.43	PPPC312LJBN-RC
	64	3.10 (78.74)	3.22 (81.78)	S5585-ND	3.99	33.03	210.72	PPPC322LJBN-RC
	66	3.20 (81.28)	3.32 (84.32)	S5586-ND	4.12	34.10	217.56	PPPC332LJBN-RC
	68	3.30 (83.82)	3.42 (86.86)	S5587-ND	4.24	35.09	223.85	PPPC342LJBN-RC
	70	3.40 (86.36)	3.52 (89.40)	S5588-ND	4.36	36.16	230.70	PPPC352LJBN-RC
	72	3.50 (88.90)	3.62 (91.94)	S5589-ND	4.49	37.21	237.36	PPPC362LJBN-RC
	74	3.60 (91.44)	3.72 (94.48)	S5590-ND	4.61	38.22	243.83	PPPC372LJBN-RC
	76	3.70 (93.98)	3.82 (97.02)	S5591-ND	4.74	39.27	250.49	PPPC382LJBN-RC
	78	3.80 (96.52)	3.92 (99.56)	S5592-ND	4.86	40.28	256.97	PPPC392LJBN-RC
	80	3.90 (99.06)	4.02 (102.10)	S5593-ND	4.99	41.33	263.63	PPPC402LJBN-RC

Fig. 6 — Dual Row Female Headers, SMT

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	Sullins Part No.
Tin	8	.300 (7.62)	.420 (10.66)	S4573-ND	1.49	12.35	78.81	PPTC042KFMS
	10	.400 (10.16)	.520 (13.20)	S4574-ND	1.86	15.40	98.24	PPTC052KFMS
	12	.500 (12.70)	.620 (15.74)	S4575-ND	2.18	18.04	115.07	PPTC062KFMS
	16	.700 (17.78)	.820 (20.82)	S4577-ND	2.89	23.95	152.81	PPTC082KFMS
	18	.800 (20.32)	.920 (23.36)	S4578-ND	3.26	27.00	172.24	PPTC092KFMS
	20	.900 (22.86)	1.02 (25.90)	S4579-ND	3.62	29.99	191.29	PPTC102KFMS
	24	1.10 (27.94)	1.22 (30.98)	S4581-ND	3.71	30.74	196.10	PPTC122KFMS
	30	1.40 (35.56)	1.52 (38.60)	S4584-ND	4.63	38.37	244.76	PPTC152KFMS
	32	1.50 (38.10)	1.62 (41.14)	S4585-ND	4.94	40.89	260.85	PPTC162KFMS
	34	1.60 (40.64)	1.72 (43.68)	S4586-ND	5.25	43.53	277.69	PPTC172KFMS
	36	1.70 (43.18)	1.82 (46.22)	S4587-ND	5.56	46.05	293.78	PPTC182KFMS
	38	1.80 (45.72)	1.92 (48.76)	S4588-ND	5.87	48.60	310.06	PPTC192KFMS
	42	2.00 (50.80)	2.12 (53.84)	S4590-ND	6.27	51.91	331.15	PPTC212KFMS
	44	2.10 (53.34)	2.22 (56.38)	S4591-ND	6.56	54.38	346.88	PPTC222KFMS
	46	2.20 (55.88)	2.32 (58.92)	S4592-ND	6.86	56.81	362.42	PPTC232KFMS
	48	2.30 (58.42)	2.42 (61.46)	S4593-ND	7.15	59.28	378.14	PPTC242KFMS
	50	2.40 (60.96)	2.52 (64.00)	S4594-ND	7.45	61.74	393.87	PPTC252KFMS
	52	2.50 (63.50)	2.62 (66.54)	S4595-ND	7.75	64.18	409.41	PPTC262KFMS
	54	2.60 (66.04)	2.72 (69.08)	S4596-ND	8.05	66.73	425.69	PPTC272KFMS
	56	2.70 (68.58)	2.82 (71.62)	S4597-ND	8.35	69.19	441.41	PPTC282KFMS
	58	2.80 (71.12)	2.92 (74.16)	S4598-ND	8.65	71.63	456.95	PPTC292KFMS
	60	2.90 (73.66)	3.02 (76.70)	S4599-ND	8.94	74.10	472.68	PPTC302KFMS
	62	3.00 (76.20)	3.12 (79.24)	S4600-ND	5.74	47.56	303.40	PPTC312KFMS
	64	3.10 (78.74)	3.22 (81.78)	S4601-ND	9.53	79.00	503.94	PPTC322KFMS
	66	3.20 (81.28)	3.32 (84.32)	S4602-ND	9.84	81.55	520.22	PPTC332KFMS
	68	3.30 (83.82)	3.42 (86.86)	S4603-ND	10.14	84.01	535.95	PPTC342KFMS
	70	3.40 (86.36)	3.52 (89.40)	S4604-ND	10.43	86.45	551.49	PPTC352KFMS
	72	3.50 (88.90)	3.62 (91.94)	S4605-ND	10.73	88.91	567.21	PPTC362KFMS
	74	3.60 (91.44)	3.72 (94.48)	S4606-ND	11.03	91.38	582.94	PPTC372KFMS
	76	3.70 (93.98)	3.82 (97.02)	S4607-ND	11.32	93.82	598.48	PPTC382KFMS
	78	3.80 (96.52)	3.92 (99.56)	S4608-ND	11.63	96.37	614.76	PPTC392KFMS
	80	3.90 (99.06)	4.02 (102.10)	S4609-ND	11.93	98.83	630.48	PPTC402KFMS
Gold	4	.100 (2.54)	.220 (5.58)	S4610-ND	.91	7.54	48.10	PPPC022KFMS
	12	.500 (12.70)	.620 (15.74)	S4614-ND	2.18	18.04	115.07	PPPC062KFMS
	14	.600 (15.24)	.720 (18.28)	S4615-ND	2.53	21.00	133.94	PPPC072KFMS
	18	.800 (20.32)	.920 (23.36)	S4617-ND	3.26	27.00	172.24	PPPC092KFMS
	20	.900 (22.86)	1.02 (25.90)	S4618-ND	3.62	29.99	191.29	PPPC102KFMS
	24	1.10 (27.94)	1.22 (30.98)	S4620-ND	3.71	30.74	196.10	PPPC122KFMS
	26	1.20 (30.48)	1.32 (33.52)	S4621-ND	4.02	33.29	212.38	PPPC132KFMS
	28	1.30 (33.02)	1.42 (36.06)	S4622-ND	4.32	35.82	228.48	PPPC142KFMS
	30	1.40 (35.56)	1.52 (38.60)	S4623-ND	4.63	38.37	244.76	PPPC152KFMS
	32	1.50 (38.10)	1.62 (41.14)	S4624-ND	4.94	40.89	260.85	PPPC162KFMS
	34	1.60 (40.64)	1.72 (43.68)	S4625-ND	5.25	43.53	277.69	PPPC172KFMS
	36	1.70 (43.18)	1.82 (46.22)	S4626-ND	5.56	46.05	293.78	PPPC182KFMS
	38	1.80 (45.72)	1.92 (48.76)	S4627-ND	5.87	48.60	310.06	PPPC192KFMS
	40	1.90 (48.26)	2.02 (51.30)	S4628-ND	6.17	51.16	326.34	PPPC202KFMS
	42	2.00 (50.80)	2.12 (53.84)	S4629-ND	6.27	51.91	331.15	PPPC212KFMS
	44	2.10 (53.34)	2.22 (56.38)	S4630-ND	6.56	54.38	346.88	PPPC222KFMS
	46	2.20 (55.88)	2.32 (58.92)	S4631-ND	6.86	56.81	362.42	PPPC232KFMS
	48	2.30 (58.42)	2.42 (61.46)	S4632-ND	7.15	59.28	378.14	PPPC242KFMS
	52	2.50 (63.50)	2.62 (66.54)	S4634-ND	7.75	64.18	409.41	PPPC262KFMS
	54	2.60 (66.04)	2.72 (69.08)	S4635-ND	8.05	66.73	425.69	PPPC272KFMS
	56	2.70 (68.58)	2.82 (71.62)	S4636-ND	8.35	69.19	441.41	PPPC282KFMS
	58	2.80 (71.12)	2.92 (74.16)	S4637-ND	8.65	71.63	456.95	PPPC292KFMS
	60	2.90 (73.66)	3.02 (76.70)	S4638-ND	8.94	74.10	472.68	PPPC302KFMS
	62	3.00 (76.20)	3.12 (79.24)	S4639-ND	5.74	47.56	303.40	PPPC312KFMS
	66	3.20 (81.28)	3.32 (84.32)	S4641-ND	9.84	81.55	520.22	PPPC332KFMS
	68	3.30 (83.82)	3.42 (86.86)	S4642-ND	10.14	84.01	535.95	PPPC342KFMS
	70	3.40 (86.36)	3.52 (89.40)	S4643-ND	10.43	86.45	551.49	PPPC352KFMS
	72	3.50 (88.90)	3.62 (91.94)	S4644-ND	10.73	88.91	567.21	PPPC362KFMS
	74	3.60 (91.44)	3.72 (94.48)	S4645-ND	11.03	91.38	582.94	PPPC372KFMS
	76	3.70 (93.98)	3.82 (97.02)	S4646-ND	11.32	93.82	598.48	PPPC382KFMS
	78	3.80 (96.52)	3.92 (99.56)	S4647-ND	11.63	96.37	614.76	PPPC392KFMS
	80	3.90 (99.06)	4.02 (102.10)	S4648-ND	11.93	98.83	630.48	PPPC402KFMS

Fig. 6 — Dual Row Female Headers, SMT, RoHS Compliant

Contact Finish	No. of Contacts	Dimensions Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	Sullins Part No.
Tin	4	.100 (2.54)	.220 (5.58)	S5672-ND	.82	6.79	43.29	NPTC022KFMS-RC
	6	.200 (5.08)	.320 (8.12)	S5673-ND	1.15	9.54	60.87	NPTC032KFMS-RC
	8	.300 (7.62)	.420 (10.66)	S5674-ND	1.34	11.14	71.04	NPTC042KFMS-RC
	10	.400 (10.16)	.520 (13.20)	S5675-ND	1.68	13.89	88.62	NPTC052KFMS-RC
	12	.500 (12.70)	.620 (15.74)	S5676-ND	1.96	16.24	103.60	NPTC062KFMS-RC
	14	.600 (15.24)	.720 (18.28)	S5677-ND	2.28	18.91	120.62	NPTC072KFMS-RC
	16	.700 (17.78)	.820 (20.82)	S5678-ND	2.60	21.58	137.64	NPTC082KFMS-RC
	18	.800 (20.32)	.920 (23.36)	S5679-ND	2.94	24.33	155.22	NPTC092KFMS-RC
	20	.900 (22.86)	1.02 (25.90)	S5680-ND	3.26	27.00	172.24	NPTC102KFMS-RC
	22	1.00 (25.40)	1.12 (28.44)	S5681-ND	3.06	25.32	161.51	NPTC112KFMS-RC
	24	1.10 (27.94)	1.22 (30.98)	S5682-ND	3.34	27.70	176.68	NPTC122KFMS-RC
	26	1.20 (30.48)	1.32 (33.52)	S5683-ND	3.62	29.99	191.29	NPTC132KFMS-RC
	28	1.30 (33.02)	1.42 (36.06)	S5684-ND	3.89	32.25	205.72	NPTC142KFMS-RC
	30	1.40 (35.56)	1.52 (38.60)	S5685-ND	4.17	34.54	220.34	NPTC152KFMS-RC
	32	1.50 (38.10)	1.62 (41.14)	S5686-ND	4.45	36.83	234.95	NPTC162KFMS-RC
	34	1.60 (40.64)	1.72 (43.68)	S5687-ND	4.73	39.21	250.12	NPTC172KFMS-RC
	36	1.70 (43.18)	1.82 (46.22)	S5688-ND	5.01	41.50	264.74	NPTC182KFMS-RC
	38	1.80 (45.72)	1.92 (48.76)	S5689-ND	5.29	43.79	279.35	NPTC192KFMS-RC
	40	1.90 (48.26)	2.02 (51.30)	S5690-ND	5.56	46.08	293.97	NPTC202KFMS-RC
	42	2.00 (50.80)	2.12 (53.84)	S5691-ND	5.64	46.75	298.22	NPTC212KFMS-RC
	44	2.10 (53.34)	2.22 (56.38)	S5692-ND	5.91	48.95	312.28	NPTC222KFMS-RC
	46	2.20 (55.88)	2.32 (58.92)	S5693-ND	6.18	51.19	326.53	NPTC232KFMS-RC
	48	2.30 (58.42)	2.42 (61.46)	S5694-ND	6.44	53.39	340.59	NPTC242KFMS-RC
	50	2.40 (60.96)	2.52 (64.00)	S5695-ND	6.71	55.59	354.65	NPTC252KFMS-RC
	52	2.50 (63.50)	2.62 (66.54)	S5696-ND	6.98	57.83	368.89	NPTC262KFMS-RC
	54	2.60 (66.04)	2.72 (69.08)	S5697-ND	7.25	60.09	383.32	NPTC272KFMS-RC
	56	2.70 (68.58)	2.82 (71.62)	S5698-ND	7.52	62.32	397.57	NPTC282KFMS-RC
	58	2.80 (71.12)	2.92 (74.16)	S5699-ND	7.79	64.53	411.63	NPTC292KFMS-RC
	60	2.90 (73.66)	3.02 (76.70)	S5700-ND	8.05	66.73	425.69	NPTC302KFMS-RC
	62	3.00 (76.20)	3.12 (79.24)	S5701-ND	8.32	68.96	439.93	NPTC312KFMS-RC
	64	3.10 (78.74)	3.22 (81.78)	S5702-ND	8.59	71.17	453.99	NPTC322KFMS-RC
	66	3.20 (81.28)	3.32 (84.32)	S5703-ND	8.87	73.46	468.61	NPTC332KFMS-RC
	68	3.30 (83.82)	3.42 (86.86)	S5704-ND	9.13	75.66	482.67	NPTC342KFMS-RC
	70	3.40 (86.36)	3.52 (89.40)	S5705-ND	9.40	77.87	496.73	NPTC352KFMS-RC
	72	3.50 (88.90)	3.62 (91.94)	S5706-ND	9.67	80.10	510.97	NPTC362KFMS-RC
	74	3.60 (91.44)	3.72 (94.48)	S5707-ND	9.93	82.30	525.03	NPTC372KFMS-RC
	76	3.70 (93.98)	3.82 (97.02)	S5708-ND	10.20	84.51	539.09	NPTC382KFMS-RC
	78	3.80 (96.52)	3.92 (99.56)	S5709-ND	10.48	86.80	553.71	NPTC392KFMS-RC
	80	3.90 (99.06)	4.02 (102.10)	S5710-ND	10.74	89.00	567.77	NPTC402KFMS-RC
Gold	4	.100 (2.54)	.220 (5.58)	S5711-ND	.82	6.79	43.29	NPPC022KFMS-RC
	6	.200 (5.08)	.320 (8.12)	S5712-ND	1.15	9.54	60.87	NPPC032KFMS-RC
	8	.300 (7.62)	.420 (10.66)	S5713-ND	1.34	11.14	71.04	NPPC042KFMS-RC
	10	.400 (10.16)	.520 (13.20)	S5714-ND	1.68	13.89	88.62	NPPC052KFMS-RC
	12	.500 (12.70)	.620 (15.74)	S5715-ND	1.96	16.24	103.60	NPPC062KFMS-RC
	14	.600 (15.24)	.720 (18.28)	S5716-ND	2.28	18.91	120.62	NPPC072KFMS-RC
	16	.700 (17.78)	.820 (20.82)	S5717-ND	2.60	21.58	137.64	NPPC082KFMS-RC
	18	.800 (20.32)	.920 (23.36)	S5718-ND	2.94	24.33	155.22	NPPC092KFMS-RC
	20	.900 (22.86)	1.02 (25.90)	S5719-ND	3.26	27.00	172.24	NPPC102KFMS-RC
	22	1.00 (25.40)	1.12 (28.44)	S5720-ND	3.06	25.32	161.51	NPPC112KFMS-RC
	24	1.10 (27.94)	1.22 (30.98)	S5721-ND	3.34	27.70	176.68	NPPC122KFMS-RC
	26	1.20 (30.48)	1.32 (33.52)	S5722-ND	3.62	29.99	191.29	NPPC132KFMS-RC
	28	1.30 (33.02)	1.42 (36.06)	S5723-ND	3.89	32.25	205.72	NPPC142KFMS-RC
	30	1.40 (35.56)	1.52 (38.60)	S5724-ND	4.17	34.54	220.34	NPPC152KFMS-RC
	32	1.50 (38.10)	1.62 (41.14)	S5725-ND	4.45	36.83	234.95	NPPC162KFMS-RC
	34	1.60 (40.64)	1.72 (43.68)	S5726-ND	4.73	39.21	250.12	NPPC172KFMS-RC
	36	1.70 (43.18)	1.82 (46.22)	S5727-ND	5.01	41.50	264.74	NPPC182KFMS-RC
	38	1.80 (45.72)	1.92 (48.76)	S5728-ND	5.29	43.79	279.35	NPPC192KFMS-RC
	40	1.90 (48.26)	2.02 (51.30)	S5729-ND	5.56	46.08	293.97	NPPC202KFMS-RC
	42	2.00 (50.80)	2.12 (53.84)	S5730-ND	5.64	46.75	298.22	NPPC212KFMS-RC
	44	2.10 (53.34)	2.22 (56.38)	S5731-ND	5.91	48.95	312.28	NPPC222KFMS-RC
	46	2.20 (55.88)	2.32 (58.92)	S5732-ND	6.18	51.19	326.53	NPPC232KFMS-RC
	48	2.30 (58.42)	2.42 (61.46)	S5733-ND	6.44	53.39	340.59	NPPC242KFMS-RC
	50	2.40 (60.96)	2.52 (64.00)	S5734-ND	6.71	55.59	354.65	NPPC252KFMS-RC
	52	2.50 (63.50)	2.62 (66.54)	S5735-ND	6.98	57.83	368.89	NPPC262KFMS-RC
	54	2.60 (66.04)	2.72 (69.08)	S5736-ND	7.25	60.09	383.32	NPPC272KFMS-RC
	56	2.70 (68.58)	2.82 (71.62)	S5737-ND	7.52	62.32	397.57	NPPC282KFMS-RC
	58	2.80 (71.12)	2.92 (74.16)	S5738-ND	7.79	64.53	411.63	NPPC292KFMS-RC
	60	2.90 (73.66)	3.02 (76.70)	S5739-ND	8.05	66.73	425.69	NPPC302KFMS-RC
	62	3.00 (76.20)	3.12 (79.24)	S5740-ND	8.32	68.96	439.93	NPPC312KFMS-RC
	64	3.10 (78.74)	3.22 (81.78)	S5741-ND	8.59	71.17	453.99	NPPC322KFMS-RC
	66	3.20 (81.28)	3.32 (84.32)	S5742-ND	8.87	73.46	468.61	NPPC332KFMS-RC
	68	3.30 (83.82)	3.42 (86.86)	S5743-ND	9.13	75.66	482.67	NPPC342KFMS-RC
	70	3.40 (86.36)	3.52 (89.40)	S5744-ND	9.40	77.87	496.73	NPPC352KFMS-RC
	72	3.50 (88.90)	3.62 (91.94)	S5745-ND	9.67	80.10	510.97	NPPC362KFMS-RC
	74	3.60 (91.44)	3.72 (94.48)	S5746-ND	9.93	82.30	525.03	NPPC372KFMS-RC
	76	3.70 (93.98)	3.82 (97.02)	S5747-ND	10.20	84.51	539.09	NPPC382KFMS-RC
	78	3.80 (96.52)	3.92 (99.56)	S5748-ND	10.48	86.80	553.71	NPPC392KFMS-RC
	80	3.90 (99.06)	4.02 (102.10)	S5749-ND	10.74	89.00	567.77	NPPC402KFMS-RC

Sullins

.1" (2.54mm) SMT Male Headers

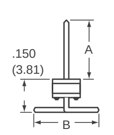

Single Straight

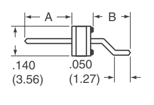

Single Right Angle

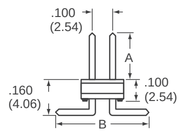

Dual Straight

Features: • .025" (.64mm) square pins • Available in 36-pin version or 1 ~ 35 size to meet your application • Temperature: -65°C ~ 125°C • UL Flammability Rating: 94V-0 • Current Rating: 3 amperes

Materials: • Insulator Material: Black thermoplastic polyester • Contact Material: CA510, phosphor bronze • Contact Plating:

Head: GTC, GEC – .00010" Tin; GZC, GBC – .000010" Gold; **Tail**: .00010" Tin

TO PURCHASE A 36 PIN HEADER...

Contact Finish	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
	A	B		1	10	100	
Single Row Straight SMT (36 Pins)							
Tin	0.230 (5.84)	0.320 (8.13)	S1013-36-ND	2.79	24.99	205.80	GTC36SABN-M30
Gold	0.318 (8.08)	0.300 (7.62)	S1043-36-ND	3.28	29.33	241.50	GZC36SFBN-M30
NEW! RoHS Compliant NEW!							
Single Row Straight SMT (36 Pins)							
Tin	0.230 (5.84)	0.320 (8.13)	S1013E-36-ND	4.05	36.21	298.20	GEC36SABN-M30
	0.318 (8.08)	0.300 (7.62)	S1023E-36-ND	4.25	38.00	312.90	GEC36SFBN-M30
Gold	0.230 (5.84)	0.320 (8.13)	S1033E-36-ND	5.04	45.14	371.70	GEC36SABN-M30
	0.318 (8.08)	0.300 (7.62)	S1043E-36-ND	5.19	46.41	382.20	GBC36SFBN-M30
Single Row Right-Angle SMT (36 Pins)							
Tin	0.230 (5.84)	0.180 (4.57)	S1113E-36-ND	3.99	35.70	294.00	GEC36SBSN-M89
	0.318 (8.08)	0.180 (4.57)	S1123E-36-ND	2.91	26.01	214.20	GEC36SGSN-M89
Gold	0.230 (5.84)	0.180 (4.57)	S1133E-36-ND	3.88	34.68	285.60	GBC36SBSN-M89
	0.318 (8.08)	0.180 (4.57)	S1143E-36-ND	3.22	28.82	237.30	GBC36SGSN-M89
Dual Row Straight SMT (72 Pins)							
Tin	0.230 (5.84)	0.420 (10.69)	S2331E-36-ND	5.39	48.20	396.90	GEC36DABN-M30
	0.318 (8.08)	0.400 (10.16)	S2341E-36-ND	8.04	71.91	592.20	GEC36DFBN-M30
Gold	0.230 (5.84)	0.420 (10.69)	S2351E-36-ND	5.39	48.20	396.90	GBC36DABN-M30
	0.318 (8.08)	0.400 (10.16)	S2361E-36-ND	7.13	63.75	525.00	GBC36DFBN-M30

TO PURCHASE A CUSTOM PIN HEADER...

STEP 1	STEP 2	STEP 3
Digi-Key Part No.	Base Price	Pin Adder
Single Row Straight (36 Pins)		
S1013-XX-ND	1.26	.05
S1043-XX-ND	1.44	.06
NEW! RoHS Compliant NEW!		
Single Row Straight (36 Pins)		
S1013E-XX-ND	1.60	.04
S1023E-XX-ND	1.44	.05
S1033E-XX-ND	1.68	.05
S1043E-XX-ND	1.44	.06
Single Row Right-Angle (36 Pins)		
S1113E-XX-ND	1.54	.04
S1123E-XX-ND	1.38	.05
S1133E-XX-ND	1.63	.05
S1143E-XX-ND	1.37	.06
Dual Row Straight (72 Pins)		
S2331E-XX-ND	1.82	.14
S2341E-XX-ND	2.25	.14
S2351E-XX-ND	2.31	.16
S2361E-XX-ND	2.52	.16

HOW TO ORDER:
4 EASY STEPS

How do I order an S1013 header with 16 pins?

Call Digi-Key where you'll receive the price,
or
Determine the cost yourself.

S ☐☐☐☐ - ☐☐ - ND
Base Part Number
Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.
Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).
Step 3. Multiply the number of pins you desire by the "Pin Adder" of your selected part number (refer to chart).
Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	S1013-16-ND
Step 2.	1.26
Step 3.	16 x .05 = .80
Step 4.	Your Cost = $2.06

NOTE: **For quantities of 10 or more, call DIGI-KEY.**

.1" (2.54mm) Male Headers

Features
• .025" (.64mm) square pins • Available in 36-pin version or 1 to 35 size to meet your application • Temperature: -65°C ~ 125°C • UL Flammability Rating: 94V-0 • Current Rating: 3 amperes

Materials
• Insulator Material: Black thermoplastic polyester • Contact Material: CA510, phosphor bronze • Contact Plating: **Head**: PTC – .00010" Tin; PZC – .000010" Gold; **Tail**: .00010" Tin

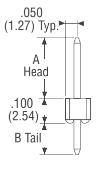

Single Straight

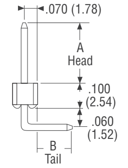

Single Right Angle

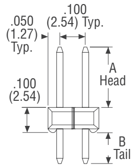

Dual Straight

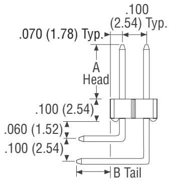

Dual Right Angle

Single Row

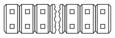

Dual Row

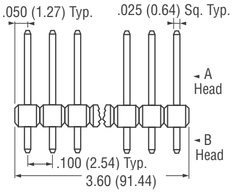

TO PURCHASE A 36 PIN HEADER...

Contact Finish	Dimensions Inch (mm)		Digi-Key Part No.	Pricing			Sullins Part No.
	A	B		1	10	100	
Single Row Straight (36 Pins)							
Tin	.230 (5.84)	.520 (13.21)	S1052-36-ND	2.22	19.89	163.80	PTC36SAEN
	.230 (5.84)	.620 (15.75)	S1062-36-ND	2.76	24.74	203.70	PTC36SAFN
	.230 (5.84)	.820 (20.83)	S1082-36-ND	3.11	27.80	228.90	PTC36SAHN
	.318 (8.08)	.120 (3.05)	S1212-36-ND	1.28	11.48	94.50	PTC36SFAN
Gold	.230 (5.84)	.620 (15.75)	S1061-36-ND	3.19	28.56	235.20	PZC36SAFN
	.230 (5.84)	.720 (18.29)	S1071-36-ND	3.36	30.09	247.80	PZC36SAGN
	.230 (5.84)	.820 (20.83)	S1081-36-ND	3.53	31.62	260.40	PZC36SAHN
	.318 (8.08)	.220 (5.59)	S1221-36-ND	2.59	23.21	191.10	PZC36SFBN
	.318 (8.08)	.420 (10.67)	S1241-36-ND	2.94	26.27	216.30	PZC36SFDN
Single Row Right-Angle (36 Pins)							
Tin	.230 (5.84)	.200 (5.08)	S1122-36-ND	1.94	17.34	142.80	PTC36SBBN
	.230 (5.84)	.500 (12.70)	S1152-36-ND	4.02	35.96	296.10	PTC36SBEN
	.318 (8.08)	.200 (5.08)	S1322-36-ND	3.48	31.11	256.20	PTC36SGBN
Gold	.230 (5.84)	.300 (7.62)	S1131-36-ND	3.22	28.82	237.30	PZC36SBCN
	.230 (5.84)	.400 (10.16)	S1141-36-ND	4.25	38.00	312.90	PZC36SBDN
	.230 (5.84)	.500 (12.70)	S1151-36-ND	4.50	40.29	331.80	PZC36SBEN
	.318 (8.08)	.100 (2.54)	S1311-36-ND	2.34	20.91	172.20	PZC36SGAN
	.318 (8.08)	.200 (5.08)	S1321-36-ND	4.02	35.96	296.10	PZC36SGBN
Dual Row Straight (72 Pins)							
Tin	.230 (5.84)	.420 (10.67)	S2042-36-ND	4.30	38.51	317.10	PTC36DADN
	.230 (5.84)	.720 (18.29)	S2072-36-ND	6.33	56.61	466.20	PTC36DAGN
	.230 (5.84)	.820 (20.83)	S2082-36-ND	6.70	59.93	493.50	PTC36DAHN
	.318 (8.08)	.320 (8.13)	S2232-36-ND	3.99	35.70	294.00	PTC36DFCN
	.318 (8.08)	.420 (10.67)	S2242-36-ND	4.33	38.76	319.20	PTC36DFDN
Gold	.230 (5.84)	.520 (13.21)	S2051-36-ND	5.50	49.22	405.30	PZC36DAEN
	.230 (5.84)	.620 (15.75)	S2061-36-ND	6.90	61.71	508.20	PZC36DAFN
	.230 (5.84)	.720 (18.29)	S2071-36-ND	7.27	65.03	535.50	PZC36DAGN
Dual Row Right-Angle (72 Pins)							
Tin	.230 (5.84)	.300 (7.62)	S2132-36-ND	6.10	54.57	449.40	PTC36DBCN
	.230 (5.84)	.400 (10.16)	S2142-36-ND	6.70	59.93	493.50	PTC36DBDN
	.230 (5.84)	.500 (12.70)	S2152-36-ND	7.30	65.28	537.60	PTC36DBEN
	.318 (8.08)	.200 (5.08)	S2322-36-ND	6.58	58.91	485.10	PTC36DGBN
Gold	.230 (5.84)	.400 (10.16)	S2141-36-ND	7.64	68.34	562.80	PZC36DBDN
	.230 (5.84)	.500 (12.70)	S2151-36-ND	8.24	73.70	606.90	PZC36DBEN
	.318 (8.08)	.100 (2.54)	S2311-36-ND	6.30	56.36	464.10	PZC36DGAN
	.318 (8.08)	.200 (5.08)	S2321-36-ND	7.67	68.60	564.90	PZC36DGBN
Shorting Jumpers							
Tin	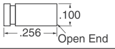		S9000-ND	—	.93	—	STC02SYAN
Au Flash			S9001-ND	—	1.16	—	SPC02SYAN
Gold			S9002-ND	—	1.31	—	SSC02SYAN

TO PURCHASE A CUSTOM PIN HEADER...

STEP 1	STEP 2	STEP 3
Digi-Key Part No.	Base Price	Pin Adder
Single Row Straight (36 Pins)		
S1052-XX-ND	.99	.04
S1062-XX-ND	1.23	.05
S1082-XX-ND	1.26	.06
S1212-XX-ND	.68	.02
S1061-XX-ND	1.34	.06
S1071-XX-ND	1.52	.06
S1081-XX-ND	1.36	.07
S1221-XX-ND	1.05	.05
S1241-XX-ND	1.42	.05
Single Row Right-Angle (36 Pins)		
S1122-XX-ND	1.04	.03
S1152-XX-ND	1.54	.08
S1312-XX-ND	1.04	.03
S1131-XX-ND	1.37	.06
S1141-XX-ND	1.79	.08
S1151-XX-ND	1.71	.09
S1311-XX-ND	1.12	.04
S1321-XX-ND	1.54	.08
Dual Row Straight (72 Pins)		
S2042-XX-ND	1.84	.08
S2052-XX-ND	1.87	.09
S2082-XX-ND	2.68	.13
S2232-XX-ND	1.51	.08
S2242-XX-ND	1.87	.08
S2051-XX-ND	2.09	.11
S2061-XX-ND	2.89	.13
S2071-XX-ND	2.95	.14
Dual Row Right-Angle (72 Pins)		
S2132-XX-ND	2.39	.12
S2142-XX-ND	2.88	.13
S2152-XX-ND	2.98	.14
S2322-XX-ND	2.55	.13
S2141-XX-ND	3.00	.15
S2151-XX-ND	3.29	.16
S2311-XX-ND	2.60	.12
S2321-XX-ND	3.03	.15

Available in 1 to 36 Pin Versions!

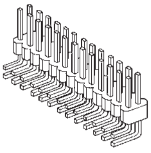

HOW TO ORDER:
4 EASY STEPS

How do I order an S1052 header with 16 pins?

Call Digi-Key where you'll receive the price,
or
Determine the cost yourself.

S ☐☐☐☐ - ☐☐ - ND
Base Part Number
Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.
Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).
Step 3. Multiply the number of pins you desire by the "Pin Adder" of your selected part number (refer to chart).
Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	S1052-16-ND
Step 2.	.99
Step 3.	16 x .04 = .64
Step 4.	Your Cost = $1.63

NOTE: **For quantities of 10 or more, call DIGI-KEY.**

Sullins .1” (2.54mm) Male Headers

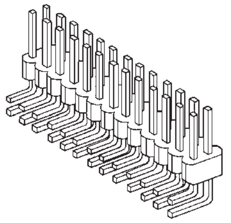

Available in
1 to 36
Pin Versions!

Features • .025” (.64mm) square pins • Available in 36-pin version or 1 to 35 size to meet your application • Temperature: -65°C ~ 125°C • UL Flammability Rating: 94V-0 • Current Rating: 3 amperes
Materials • Insulator Material: Black thermoplastic polyester • Contact Material: CA510, phosphor bronze • Contact Plating: **Head**: PEC — .00010” Tin; PBC — .000010”; **Tail**: .00010” Tin

TO PURCHASE A 36 PIN HEADER...

Contact Finish	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Sullins Part No.
NEW! Single Row Straight (36 Pins) – RoHS Compliant NEW!							
Tin	.230 (5.84)	.120 (3.05)	S1012E-36-ND	1.03	9.18	75.60	PEC36SAAN
	.230 (5.84)	.230 (5.84)	S1022E-36-ND	1.77	15.81	130.20	PEC36SABN
	.230 (5.84)	.320 (8.13)	S1032E-36-ND	1.91	17.09	140.70	PEC36SACN
	.230 (5.84)	.420 (10.67)	S1042E-36-ND	2.08	18.62	153.30	PEC36SADN
	.230 (5.84)	.520 (13.21)	S1052E-36-ND	2.22	19.89	163.80	PEC36SAEN
	.230 (5.84)	.620 (15.75)	S1062E-36-ND	2.76	24.74	203.70	PEC36SAFN
	.230 (5.84)	.720 (18.29)	S1072E-36-ND	2.94	26.27	216.30	PEC36SAGN
	.230 (5.84)	.820 (20.83)	S1082E-36-ND	3.11	27.80	228.90	PEC36SAHN
	.318 (8.08)	.120 (3.05)	S1212E-36-ND	1.28	11.48	94.50	PEC36SFAN
	.318 (8.08)	.220 (5.59)	S1222E-36-ND	2.11	18.87	155.40	PEC36SFBN
	.318 (8.08)	.320 (8.13)	S1232E-36-ND	2.28	20.40	168.00	PEC36SFCN
	.318 (8.08)	.420 (10.67)	S1242E-36-ND	2.45	21.93	180.60	PEC36SFDN
	.318 (8.08)	.520 (13.21)	S1252E-36-ND	3.31	29.58	243.60	PEC36SFEN
Gold	.230 (5.84)	.120 (3.05)	S1011E-36-ND	1.28	11.48	94.50	PBC36SAAN
	.230 (5.84)	.230 (5.84)	S1021E-36-ND	2.14	19.13	157.50	PBC36SABN
	.230 (5.84)	.320 (8.13)	S1031E-36-ND	2.31	20.66	170.10	PBC36SACN
	.230 (5.84)	.420 (10.67)	S1041E-36-ND	2.45	21.93	180.60	PBC36SADN
	.230 (5.84)	.520 (13.21)	S1051E-36-ND	2.62	23.46	193.20	PBC36SAEN
	.230 (5.84)	.620 (15.75)	S1061E-36-ND	3.19	28.56	235.20	PBC36SAFN
	.230 (5.84)	.720 (18.29)	S1071E-36-ND	3.36	30.09	247.80	PBC36SAGN
	.230 (5.84)	.820 (20.83)	S1081E-36-ND	3.53	31.62	260.40	PBC36SAHN
	.318 (8.08)	.120 (3.05)	S1211E-36-ND	1.62	14.54	119.70	PBC36SFAN
	.318 (8.08)	.220 (5.59)	S1221E-36-ND	2.59	23.21	191.10	PBC36SFBN
	.318 (8.08)	.320 (8.13)	S1231E-36-ND	2.76	24.74	203.70	PBC36SFCN
	.318 (8.08)	.420 (10.67)	S1241E-36-ND	2.94	26.27	216.30	PBC36SFDN
	.318 (8.08)	.520 (13.21)	S1251E-36-ND	3.85	34.43	283.50	PBC36SFEN
NEW! Single Row Right-Angle (36 Pins) – RoHS Compliant NEW!							
Tin	.230 (5.84)	.100 (2.54)	S1112E-36-ND	1.51	13.52	111.30	PEC36SBAN
	.230 (5.84)	.200 (5.08)	S1122E-36-ND	1.94	17.34	142.80	PEC36SBBN
	.230 (5.84)	.300 (7.62)	S1132E-36-ND	2.79	24.99	205.80	PEC36SBCN
	.230 (5.84)	.400 (10.16)	S1142E-36-ND	3.76	33.66	277.20	PEC36SBDN
	.230 (5.84)	.500 (12.70)	S1152E-36-ND	4.02	35.96	296.10	PEC36SBEN
	.318 (8.08)	.100 (2.54)	S1312E-36-ND	1.94	17.34	142.80	PEC36SGAN
	.318 (8.08)	.200 (5.08)	S1322E-36-ND	3.48	31.11	256.20	PEC36SGBN
Gold	.230 (5.84)	.100 (2.54)	S1111E-36-ND	1.82	16.32	134.40	PBC36SBAN
	.230 (5.84)	.200 (5.08)	S1121E-36-ND	2.28	20.40	168.00	PBC36SBBN
	.230 (5.84)	.300 (7.62)	S1131E-36-ND	3.22	28.82	237.30	PBC36SBCN
	.230 (5.84)	.400 (10.16)	S1141E-36-ND	4.25	38.00	312.90	PBC36SBDN
	.230 (5.84)	.500 (12.70)	S1151E-36-ND	4.50	40.29	331.80	PBC36SBEN
	.318 (8.08)	.100 (2.54)	S1311E-36-ND	2.34	20.91	172.20	PBC36SGAN
	.318 (8.08)	.200 (5.08)	S1321E-36-ND	4.02	35.96	296.10	PBC36SGBN
NEW! Dual Row Straight (72 Pins) – RoHS Compliant NEW!							
Tin	.230 (5.84)	.120 (3.05)	S2012E-36-ND	1.85	16.58	136.50	PEC36DAAN
	.230 (5.84)	.230 5.84)	S2022E-36-ND	2.76	24.74	203.70	PEC36DABN
	.230 (5.84)	.320 (8.13)	S2032E-36-ND	3.96	35.45	291.90	PEC36DACN
	.230 (5.84)	.420 (10.67)	S2042E-36-ND	4.30	38.51	317.10	PEC36DADN
	.230 (5.84)	.520 (13.21)	S2052E-36-ND	4.65	41.57	342.30	PEC36DAEN
	.230 (5.84)	.620 (15.75)	S2062E-36-ND	5.96	53.30	438.90	PEC36DAFN
	.230 (5.84)	.720 (18.29)	S2072E-36-ND	6.33	56.61	466.20	PEC36DAGN
	.230 (5.84)	.820 (20.83)	S2082E-36-ND	6.70	59.93	493.50	PEC36DAHN
	.318 (8.08)	.120 (3.05)	S2212E-36-ND	2.34	20.91	172.20	PEC36DFAN
	.318 (8.08)	.220 (5.59)	S2222E-36-ND	3.65	32.64	268.80	PEC36DFBN
	.318 (8.08)	.320 (8.13)	S2232E-36-ND	3.99	35.70	294.00	PEC36DFCN
	.318 (8.08)	.420 (10.67)	S2242E-36-ND	4.33	38.76	319.20	PEC36DFDN
	.318 (8.08)	.520 (13.21)	S2252E-36-ND	5.59	49.98	411.60	PEC36DFEN
Gold	.230 (5.84)	.120 (3.05)	S2011E-36-ND	2.37	21.17	174.30	PBC36DAAN
	.230 (5.84)	.230 (5.84)	S2021E-36-ND	3.48	31.11	256.20	PBC36DABN
	.230 (5.84)	.320 (8.13)	S2031E-36-ND	4.82	43.10	354.90	PBC36DACN
	.230 (5.84)	.420 (10.67)	S2041E-36-ND	5.16	46.16	380.10	PBC36DADN
	.230 (5.84)	.520 (13.21)	S2051E-36-ND	5.50	49.22	405.30	PBC36DAEN
	.230 (5.84)	.620 (15.75)	S2061E-36-ND	6.90	61.71	508.20	PBC36DAFN
	.230 (5.84)	.720 (18.29)	S2071E-36-ND	7.27	65.03	535.50	PBC36DAGN
	.230 (5.84)	.820 (20.83)	S2081E-36-ND	7.67	68.60	564.90	PBC36DAHN
	.318 (8.08)	.120 (3.05)	S2211E-36-ND	3.02	27.03	222.60	PBC36DFAN
	.318 (8.08)	.220 (5.59)	S2221E-36-ND	4.62	41.31	340.20	PBC36DFBN
	.318 (8.08)	.320 (8.13)	S2231E-36-ND	4.96	44.37	365.40	PBC36DFCN
	.318 (8.08)	.420 (10.67)	S2241E-36-ND	5.30	47.43	390.60	PBC36DFDN
	.318 (8.08)	.520 (13.21)	S2251E-36-ND	6.67	59.67	491.40	PBC36DFEN
NEW! Dual Row Right-Angle (72 Pins) – RoHS Compliant NEW!							
Tin	.230 (5.84)	.100 (2.54)	S2112E-36-ND	2.79	24.99	205.80	PEC36DBAN
	.230 (5.84)	.200 (5.08)	S2122E-36-ND	4.05	36.21	298.20	PEC36DBBN
	.230 (5.84)	.300 (7.62)	S2132E-36-ND	6.10	54.57	449.40	PEC36DBCN
	.230 (5.84)	.400 (10.16)	S2142E-36-ND	6.70	59.93	493.50	PEC36DBDN
	.230 (5.84)	.500 (12.70)	S2152E-36-ND	7.30	65.28	537.60	PEC36DBEN
	.318 (8.08)	.100 (2.54)	S2312E-36-ND	5.33	47.69	392.70	PEC36DGAN
	.318 (8.08)	.200 (5.08)	S2322E-36-ND	6.58	58.91	485.10	PEC36DGBN
Gold	.230 (5.84)	.100 (2.54)	S2111E-36-ND	3.42	30.60	252.00	PBC36DBAN
	.230 (5.84)	.200 (5.08)	S2121E-36-ND	4.79	42.84	352.80	PBC36DBBN
	.230 (5.84)	.300 (7.62)	S2131E-36-ND	7.07	63.24	520.80	PBC36DBCN
	.230 (5.84)	.400 (10.16)	S2141E-36-ND	7.64	68.34	562.80	PBC36DBDN
	.230 (5.84)	.500 (12.70)	S2151E-36-ND	8.24	73.70	606.90	PBC36DBEN
	.318 (8.08)	.100 (2.54)	S2311E-36-ND	6.30	56.36	464.10	PBC36DGAN
	.318 (8.08)	.200 (5.08)	S2321E-36-ND	7.67	68.60	564.90	PBC36DGBN
Shorting Jumpers							
Tin	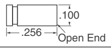 .100 .256 Open End		S9000-ND	—	.93	—	STC02SYAN
Au Flash			S9001-ND	—	1.16	—	SPC02SYAN
Gold			S9002-ND	—	1.31	—	SSC02SYAN

TO PURCHASE A CUSTOM PIN HEADER...

STEP 1 Digi-Key Part No.	STEP 2 Base Price	STEP 3 Pin Adder
NEW! Single Row Straight (36 Pins) – RoHS Compliant NEW!		
S1012E-XX-ND	.41	.02
S1022E-XX-ND	.86	.03
S1032E-XX-ND	1.00	.03
S1042E-XX-ND	1.18	.03
S1052E-XX-ND	1.33	.03
S1062E-XX-ND	1.57	.04
S1072E-XX-ND	1.42	.05
S1082E-XX-ND	1.60	.05
S1212E-XX-ND	.68	.02
S1222E-XX-ND	1.22	.03
S1232E-XX-ND	1.40	.03
S1242E-XX-ND	1.24	.04
S1252E-XX-ND	1.47	.06
S1011E-XX-ND	.68	.02
S1021E-XX-ND	1.25	.03
S1031E-XX-ND	1.43	.03
S1041E-XX-ND	1.24	.04
S1051E-XX-ND	1.42	.04
S1061E-XX-ND	1.68	.05
S1071E-XX-ND	1.52	.06
S1081E-XX-ND	1.70	.06
S1211E-XX-ND	.70	.03
S1221E-XX-ND	1.39	.04
S1231E-XX-ND	1.57	.04
S1241E-XX-ND	1.42	.05
S1251E-XX-ND	2.04	.06
NEW! Single Row Right-Angle (36 Pins) – RoHS Compliant NEW!		
S1112E-XX-ND	.92	.02
S1122E-XX-ND	1.04	.03
S1132E-XX-ND	1.60	.04
S1142E-XX-ND	1.95	.06
S1152E-XX-ND	1.88	.07
S1312E-XX-ND	1.04	.03
S1322E-XX-ND	1.65	.06
S1111E-XX-ND	.91	.03
S1121E-XX-ND	1.40	.03
S1131E-XX-ND	1.37	.06
S1141E-XX-ND	2.13	.07
S1151E-XX-ND	2.39	.07
S1311E-XX-ND	1.46	.03
S1321E-XX-ND	1.88	.07
NEW! Dual Row Straight (72 Pins) – RoHS Compliant NEW!		
S2012E-XX-ND	.94	.03
S2022E-XX-ND	1.57	.04
S2032E-XX-ND	1.82	.07
S2042E-XX-ND	2.18	.07
S2052E-XX-ND	2.21	.08
S2062E-XX-ND	2.92	.10
S2072E-XX-ND	2.97	.11
S2082E-XX-ND	3.36	.11
S2212E-XX-ND	1.46	.03
S2222E-XX-ND	1.83	.06
S2232E-XX-ND	1.85	.07
S2242E-XX-ND	2.21	.07
S2252E-XX-ND	2.87	.09
S2011E-XX-ND	1.49	.04
S2021E-XX-ND	1.65	.06
S2031E-XX-ND	2.39	.08
S2041E-XX-ND	2.41	.09
S2051E-XX-ND	2.77	.09
S2061E-XX-ND	3.23	.12
S2071E-XX-ND	3.63	.12
S2081E-XX-ND	3.71	.13
S2211E-XX-ND	1.50	.05
S2221E-XX-ND	2.18	.08
S2231E-XX-ND	2.54	.08
S2241E-XX-ND	2.56	.09
S2251E-XX-ND	3.33	.11
NEW! Dual Row Right-Angle (72 Pins) – RoHS Compliant NEW!		
S2112E-XX-ND	1.60	.04
S2122E-XX-ND	1.91	.07
S2132E-XX-ND	2.73	.11
S2142E-XX-ND	3.36	.11
S2152E-XX-ND	3.66	.12
S2312E-XX-ND	2.59	.09
S2322E-XX-ND	3.23	.11
S2111E-XX-ND	1.59	.06
S2121E-XX-ND	2.36	.08
S2131E-XX-ND	3.41	.12
S2141E-XX-ND	3.68	.13
S2151E-XX-ND	3.97	.14
S2311E-XX-ND	2.94	.11
S2321E-XX-ND	3.71	.13

HOW TO ORDER - 4 EASY STEPS

How do I order an S1012E header with 16 pins?

Call Digi-Key where you’ll receive the price.

or

Determine the cost yourself

S ☐☐☐☐ E-☐☐ - ND

Base Part Number

Number of Desired Pins per row

Step 1. Select needed “Digi-Key Part Number” and number of pins desired.

Step 2. Begin with appropriate “Base Price” of your selected Part Number (refer to chart).

Step 3. Multiply the number of pins you desire by “Pin Adder” of your selected Part Number (refer to chart).

Step 4. Add Step 2 & Step 3 together for Final Cost!

	Our Example	Your Digi-Key Part Number
Step 1.	S1012E-16-ND	S ___ ___ ___ ___ E - ___ ___ - ND
Step 2.	.41	_______
Step 3.	16 x .02 = .32	____ x ____ = _______
Step 4.	Your Cost = $.73	Your Cost = $______

NOTE: For quantities of 10 or more, call DIGI-KEY.

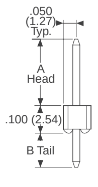

Single Straight

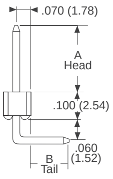

Single Right Angle

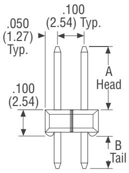

Dual Straight

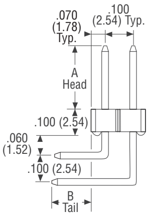

Dual Right Angle

Single Row

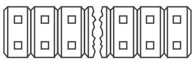

Dual Row

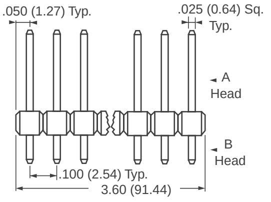

NEW! FCI DUBOX™ Versatile 0.100" (2.54 mm) Modular System

Features: • **Body Material:** Polyester 30% glass filled • **Color:** Right Angle Header: Blue; Vertical Header: Black; Housing: Blue • **Flame Retardant:** Per UL-94 VO
• **Contact Material:** Phosphor Bronze • 22 minimum pin retention in either direction

Fig. 1

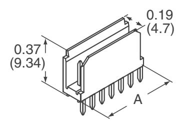

Fig. 2

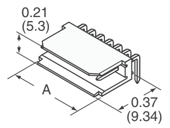

Fig. 3

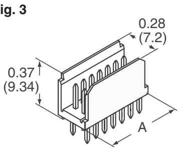

Fig. 4

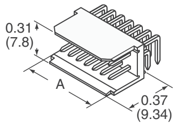

Fig. 5

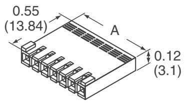

Fig. 6

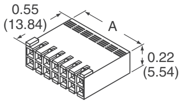

Fig.	No. of Posi-tions	Dimension A Inch (mm) (Typical)	Digi-Key Part No.	Price Each			FCI Part No.
				1	25	100	
Vertical Single Row Header — Gold							
1	2	0.161 (4.08)	609-1304-ND	.60	.31	.25	76384-302LF
	3	0.261 (6.62)	609-1305-ND	.76	.38	.31	76384-303LF
	4	0.361 (9.16)	609-1306-ND	.85	.43	.37	76384-304LF
	5	0.461 (11.70)	609-1307-ND	.92	.47	.40	76384-305LF
	6	0.561 (14.24)	609-1308-ND	1.04	.58	.49	76384-306LF
	7	0.661 (16.78)	609-1309-ND	1.17	.65	.55	76384-307LF
	8	0.761 (19.32)	609-1310-ND	1.27	.69	.59	76384-308LF
	9	0.861 (21.86)	609-1311-ND	1.37	.76	.65	76384-309LF
	10	0.961 (24.40)	609-1312-ND	1.46	.82	.71	76384-310LF
	11	1.061 (26.94)	609-1313-ND	1.58	.86	.75	76384-311LF
	12	1.161 (29.48)	609-1314-ND	1.64	.91	.80	76384-312LF
	13	1.261 (32.02)	609-1315-ND	1.69	.94	.82	76384-313LF
	14	1.361 (34.56)	609-1316-ND	1.82	1.04	.90	76384-314LF
Vertical Single Row Header — Tin							
1	2	0.161 (4.08)	609-1317-ND	.57	.28	.23	76384-402LF
	3	0.261 (6.62)	609-1318-ND	.65	.32	.26	76384-403LF
	4	0.361 (9.16)	609-1319-ND	.77	.39	.32	76384-404LF
	5	0.461 (11.70)	609-1320-ND	.92	.46	.39	76384-405LF
	6	0.561 (14.24)	609-1321-ND	.99	.53	.45	76384-406LF
	7	0.661 (16.78)	609-1322-ND	1.09	.61	.51	76384-407LF
	8	0.761 (19.32)	609-1323-ND	1.14	.63	.53	76384-408LF
	9	0.861 (21.86)	609-1324-ND	1.25	.71	.58	76384-409LF
	10	0.961 (24.40)	609-1325-ND	1.30	.71	.61	76384-410LF
	11	1.061 (26.94)	609-1326-ND	1.46	.82	.71	76384-411LF
	12	1.161 (29.48)	609-1327-ND	1.58	.86	.75	76384-412LF
	13	1.261 (32.02)	609-1328-ND	1.81	1.01	.88	76384-413LF
	14	1.361 (34.56)	609-1329-ND	1.65	.90	.78	76384-414LF
Right Angle Single Row Header — Gold							
2	2	0.193 (4.90)	609-1278-ND	.70	.34	.28	76382-302LF
	3	0.293 (7.44)	609-1279-ND	.85	.43	.37	76382-303LF
	4	0.393 (9.98)	609-1280-ND	.96	.51	.43	76382-304LF
	5	0.493 (12.52)	609-1281-ND	1.08	.60	.50	76382-305LF
	6	0.593 (15.06)	609-1282-ND	1.23	.70	.57	76382-306LF
	7	0.693 (17.60)	609-1283-ND	1.36	.74	.63	76382-307LF
	8	0.793 (20.14)	609-1284-ND	1.38	.77	.66	76382-308LF
	9	0.893 (22.68)	609-1285-ND	1.61	.88	.77	76382-309LF
	10	0.993 (25.22)	609-1286-ND	1.70	.95	.83	76382-310LF
	11	1.093 (27.76)	609-1287-ND	1.79	1.00	.88	76382-311LF
	12	1.193 (30.30)	609-1288-ND	1.90	1.09	.95	76382-312LF
	13	1.293 (32.84)	609-1289-ND	2.55	1.54	1.34	76382-313LF
	14	1.393 (35.38)	609-1290-ND	2.21	1.31	1.16	76382-314LF
Right Angle Single Row Header — Tin							
2	2	0.193 (4.90)	609-1291-ND	.60	.31	.25	76382-402LF
	3	0.293 (7.44)	609-1292-ND	.76	.38	.31	76382-403LF
	4	0.393 (9.98)	609-1293-ND	.88	.46	.39	76382-404LF
	5	0.493 (12.52)	609-1294-ND	1.00	.53	.45	76382-405LF
	6	0.593 (15.06)	609-1295-ND	1.08	.60	.50	76382-406LF
	7	0.693 (17.60)	609-1296-ND	1.23	.70	.57	76382-407LF
	8	0.793 (20.14)	609-1297-ND	1.30	.70	.60	76382-408LF
	9	0.893 (22.68)	609-1298-ND	1.41	.78	.67	76382-409LF
	10	0.993 (25.22)	609-1299-ND	1.51	.82	.72	76382-410LF
	11	1.093 (27.76)	609-1300-ND	1.66	.90	.79	76382-411LF
	12	1.193 (30.30)	609-1301-ND	1.76	.98	.86	76382-412LF
	13	1.293 (32.84)	609-1302-ND	2.31	1.33	1.18	76382-413LF
	14	1.393 (35.38)	609-1303-ND	2.42	1.43	1.27	76382-414LF
Vertical Dual Row Header — Gold							
3	4	0.161 (4.08)	609-1330-ND	.99	.53	.45	76385-302LF
	6	0.261 (6.62)	609-1331-ND	1.19	.68	.56	76385-303LF
	8	0.361 (9.16)	609-1332-ND	1.43	.80	.69	76385-304LF
	10	0.461 (11.70)	609-1333-ND	1.65	.90	.78	76385-305LF
	12	0.561 (14.24)	609-1334-ND	1.82	1.04	.90	76385-306LF
	14	0.661 (16.78)	609-1335-ND	1.77	.99	.86	76385-307LF
	16	0.761 (19.32)	609-1336-ND	1.83	1.05	.91	76385-308LF
	18	0.861 (21.86)	609-1337-ND	2.04	1.20	1.04	76385-309LF
	20	0.961 (24.40)	609-1338-ND	2.56	1.54	1.35	76385-310LF
	22	1.061 (26.94)	609-1339-ND	2.38	1.43	1.25	76385-311LF
	24	1.161 (29.48)	609-1340-ND	2.55	1.53	1.34	76385-312LF
	26	1.261 (32.02)	609-1341-ND	2.72	1.62	1.45	76385-313LF
	28	1.361 (34.56)	609-1342-ND	2.84	1.74	1.51	76385-314LF
	30	1.461 (37.10)	609-1343-ND	3.04	1.87	1.62	76385-315LF
	32	1.561 (39.64)	609-1344-ND	3.59	2.22	1.96	76385-316LF
	34	1.661 (42.18)	609-1345-ND	3.66	2.28	2.06	76385-317LF
	36	1.761 (44.72)	609-1346-ND	4.30	2.68	2.42	76385-318LF
Vertical Dual Row Header — Tin							
3	4	0.161 (4.08)	609-1347-ND	.79	.40	.33	76385-402LF
	6	0.261 (6.62)	609-1348-ND	1.08	.60	.50	76385-403LF
	8	0.361 (9.16)	609-1349-ND	1.29	.70	.60	76385-404LF
	10	0.461 (11.70)	609-1350-ND	1.49	.84	.72	76385-405LF
	12	0.561 (14.24)	609-1351-ND	1.64	.92	.80	76385-406LF
	14	0.661 (16.78)	609-1352-ND	1.86	1.07	.93	76385-407LF
	16	0.761 (19.32)	609-1353-ND	1.67	.93	.82	76385-408LF
	18	0.861 (21.86)	609-1354-ND	2.12	1.22	1.08	76385-409LF
3	20	0.961 (24.40)	609-1355-ND	2.28	1.35	1.20	76385-410LF
	22	1.061 (26.94)	609-1356-ND	2.66	1.60	1.40	76385-411LF
	24	1.161 (29.48)	609-1357-ND	2.66	1.58	1.42	76385-412LF
	26	1.261 (32.02)	609-1358-ND	2.79	1.71	1.53	76385-413LF
	28	1.361 (34.56)	609-1359-ND	3.00	1.85	1.60	76385-414LF
	30	1.461 (37.10)	609-1360-ND	3.11	1.92	1.70	76385-415LF
	32	1.561 (39.64)	609-1361-ND	3.32	2.05	1.81	76385-416LF
	34	1.661 (42.18)	609-1362-ND	3.53	2.18	1.92	76385-417LF
	36	1.761 (44.72)	609-1363-ND	3.69	2.30	2.08	76385-418LF
Right Angle Dual Row Header — Gold							
4	4	0.193 (4.90)	609-1364-ND	1.23	.70	.57	76383-302LF
	6	0.283 (7.44)	609-1365-ND	1.24	.71	.58	76383-303LF
	8	0.393 (9.98)	609-1366-ND	1.75	1.01	.87	76383-304LF
	10	0.493 (12.52)	609-1367-ND	2.02	1.19	1.03	76383-305LF
	12	0.593 (15.06)	609-1368-ND	2.27	1.34	1.19	76383-306LF
	14	0.693 (17.60)	609-1369-ND	2.50	1.51	1.31	76383-307LF
	16	0.793 (20.14)	609-1370-ND	2.68	1.64	1.47	76383-308LF
	18	0.893 (22.68)	609-1371-ND	2.59	1.56	1.36	76383-309LF
	20	0.993 (25.22)	609-1372-ND	3.12	1.93	1.70	76383-310LF
	22	1.093 (27.76)	609-1373-ND	3.01	1.85	1.61	76383-311LF
	24	1.193 (30.30)	609-1374-ND	3.63	2.26	2.05	76383-312LF
	26	1.293 (32.84)	609-1375-ND	3.45	2.13	1.88	76383-313LF
	28	1.393 (35.38)	609-1376-ND	4.06	2.53	2.29	76383-314LF
	30	1.493 (37.92)	609-1377-ND	3.85	2.39	2.17	76383-315LF
	32	1.593 (40.46)	609-1378-ND	4.10	2.55	2.31	76383-316LF
	34	1.693 (43.00)	609-1379-ND	4.63	2.90	2.65	76383-317LF
	36	1.793 (45.54)	609-1380-ND	4.24	2.73	2.43	76383-318LF
Right Angle Dual Row Header — Tin							
4	4	0.193 (4.90)	609-1381-ND	.86	.44	.38	76383-402LF
	6	0.283 (7.44)	609-1382-ND	1.15	.63	.53	76383-403LF
	8	0.393 (9.98)	609-1383-ND	1.43	.81	.69	76383-404LF
	10	0.493 (12.52)	609-1384-ND	1.79	1.03	.89	76383-405LF
	12	0.593 (15.06)	609-1385-ND	1.84	1.06	.91	76383-406LF
	14	0.693 (17.60)	609-1386-ND	2.08	1.20	1.06	76383-407LF
	16	0.793 (20.14)	609-1387-ND	2.16	1.25	1.11	76383-408LF
	18	0.893 (22.68)	609-1388-ND	2.33	1.40	1.22	76383-409LF
	20	0.993 (25.22)	609-1389-ND	2.59	1.56	1.36	76383-410LF
	22	1.093 (27.76)	609-1390-ND	3.36	2.08	1.83	76383-411LF
	24	1.193 (30.30)	609-1391-ND	2.96	1.82	1.58	76383-412LF
	26	1.293 (32.84)	609-1392-ND	3.10	1.92	1.69	76383-413LF
	28	1.393 (35.38)	609-1393-ND	4.28	2.64	2.33	76383-414LF
	30	1.493 (37.92)	609-1394-ND	4.59	2.83	2.50	76383-415LF
	32	1.593 (40.46)	609-1395-ND	4.66	2.90	2.62	76383-416LF
	34	1.693 (43.00)	609-1396-ND	3.92	2.44	2.21	76383-417LF
	36	1.793 (45.54)	609-1397-ND	4.15	2.58	2.34	76383-418LF
Single Row Housing							
5	2	0.197 (5.00)	609-1262-ND	.29	.13	.10	65240-002LF
	3	0.297 (7.54)	609-1263-ND	.36	.18	.14	65240-003LF
	4	0.397 (10.08)	609-1264-ND	.43	.21	.17	65240-004LF
	5	0.497 (12.62)	609-1265-ND	.59	.25	.20	65240-005LF
	6	0.597 (15.16)	609-1266-ND	.54	.27	.22	65240-006LF
	7	0.697 (17.70)	609-1267-ND	.62	.32	.25	65240-007LF
	8	0.797 (20.24)	609-1268-ND	.71	.35	.29	65240-008LF
	9	0.897 (22.78)	609-1269-ND	.76	.39	.32	65240-009LF
	10	0.997 (25.32)	609-1270-ND	.84	.41	.35	65240-010LF
	11	1.097 (27.86)	609-1271-ND	.88	.46	.39	65240-011LF
	12	1.197 (30.40)	609-1272-ND	.94	.49	.41	65240-012LF
	13	1.297 (32.94)	609-1273-ND	.98	.53	.44	65240-013LF
	14	1.397 (35.48)	609-1274-ND	1.05	.55	.48	65240-014LF
Dual Row Housing							
6	4	0.197 (5.00)	609-1245-ND	.46	.22	.18	65239-002LF
	6	0.297 (7.54)	609-1246-ND	.57	.28	.23	65239-003LF
	8	0.397 (10.08)	609-1247-ND	.68	.33	.28	65239-004LF
	10	0.497 (12.62)	609-1248-ND	.83	.41	.35	65239-005LF
	12	0.597 (15.16)	609-1249-ND	.94	.48	.41	65239-006LF
	14	0.697 (17.70)	609-1250-ND	1.01	.54	.45	65239-007LF
	16	0.797 (20.24)	609-1251-ND	1.08	.60	.51	65239-008LF
	18	0.897 (22.78)	609-1252-ND	1.19	.67	.55	65239-009LF
	20	0.997 (25.32)	609-1253-ND	1.35	.75	.64	65239-010LF
	22	1.097 (27.86)	609-1254-ND	1.46	.83	.71	65239-011LF
	24	1.197 (30.40)	609-1255-ND	1.50	.82	.72	65239-012LF
	26	1.297 (32.94)	609-1256-ND	1.63	.88	.77	65239-013LF
	28	1.397 (35.48)	609-1257-ND	1.70	.95	.83	65239-014LF
	30	1.497 (38.02)	609-1258-ND	1.78	1.02	.88	65239-015LF
	32	1.597 (40.56)	609-1259-ND	1.89	1.09	.94	65239-016LF
	34	1.697 (43.10)	609-1260-ND	2.05	1.18	1.05	65239-017LF
	36	1.797 (45.64)	609-1261-ND	2.07	1.19	1.06	65239-018LF
Crimp Contacts for Receptacle Housings							
22-30 AWG, Gold			609-1275-ND	.36	.18	.14	76357-301LF
22-30 AWG, Tin			609-1276-ND	2.99	1.32	1.02	76357-401LF
Tool							
Crimp Tool for Crimp Contacts			609-1277-ND	735.12	633.73	608.38	RCY21234

.100” KK® and .100” C-Grid® Breakaway Headers

Fig. 1 — KK® Breakaway Header – Right Angle

Features: • 250V • 4.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 50K MΩ minimum • Housing: Glass-filled nylon, UL 94V-0 • Contact: Phosphor Bronze, 0.64mm (.025”) square • Temperature Range: 0°C ~ 75°C • UL File No.: E29179 • CSA File No.: LR19980

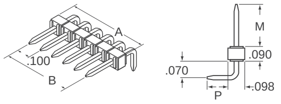

Mating End M (Inch)	PC Tail P (Inch)	Part No .
.244	.120	22-28-8XX0* 22-28-8XX2*
.324	.120	22-28-8XX1* 22-28-8XX3*

*Replace XX with no. of circuits, 02-36.

Fig. 2 — KK® Breakaway Header – Vertical

Features: • 250V • 4.0A • Contact Resistance: 20mΩ max. • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 50K MΩ minimum • Housing: Glass-filled nylon, UL 94V-0 • Contact: Phosphor Bronze, 0.64mm (.025”) square • Temperature Range: 0°C ~ 75°C • UL File No.: E29179 • CSA File No.: LR19980

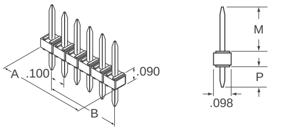

Mating End M (Inch)	PC Tail P (Inch)	Part No.
.240	.125	22-28-4XX0* 22-28-4XX3*
.320	.130	22-28-4XX1* 22-28-4XX4*

*Replace XX with no. of circuits, 02-36.

Fig. 3 — .100” KK® Breakaway Header – Single Row, Unshrouded, SMT, Vertical

Features: • 250V • 3.0A • Contact Resistance: 30mΩ max. • Withstanding Voltage: 1500VAC • Insulation Resistance: 50,000 MΩ minimum • Housing: PA Polyamide (Nylon), High Temperature • Contact: Phosphor Bronze • Temperature Range: 0°C ~ 75°C • UL 94V-0

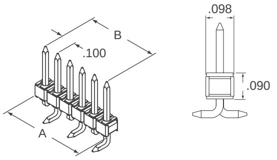

Fig. 4 — C-Grid® Breakaway Header – Dual Row, Vertical

Features: • 250V • 3.0A • Contact Resistance: 15mΩ max. • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 1000 MΩ minimum • Housing: Thermoplastic, High Temperature, UL 94V-0 • Contact: Phosphor Bronze • Temperature Range: -40°C ~ 105°C • UL File No.: E29179 (G) • CSA File No.: LR19980A

***Note**: Compliant Pin, Press Fit PC Tail, Available*

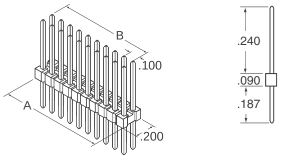

Fig. 5 — C-Grid® Breakaway Header – Low Profile, Dual Row, Right Angle

Features: • 250V • 3.0A • Contact Resistance: 15mΩ max. • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 1000 MΩ minimum • Housing: Thermoplastic, High Temperature, UL 94V-0 • Contact: Phosphor Bronze • Temperature Range: -40°C ~ 105°C • UL File No.: E29179 (H)

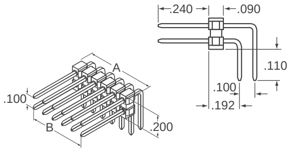

Fig. 6 — C-Grid® Header – Dual Row, SMT, Vertical

Features: • 250V • 3.0A • Contact Resistance: 15mΩ max. • Dielectric Withstanding Voltage: 1500V • Insulation Resistance: 1,000 MΩ minimum • Housing: High temperature thermoplastic, UL 94V-0 • Contact: Phosphor Bronze • Operating Temperature: -40°C ~ 105°C • UL File No.: E29179 (H) • CSA File No.: LR19980A

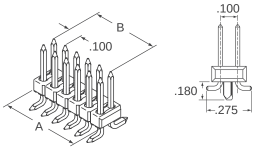

Circuits	Dim. (Inch) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
.100” KK® Breakaway Header							
Fig. 1 — Single Row, Right Angle - Tin							
2	.200	.100	WM6002-ND	.35	.31	.21	22-28-8020
3	.300	.200	WM60 03-ND	.42	.38	.25	22-28-8030
4	.400	.300	WM6004-ND	.49	.44	.29	22-28-8040
5	.500	.400	WM6005-ND	.56	.50	.33	22-28-8050
6	.600	.500	WM6006-ND	.63	.56	.38	22-28-8060
7	.700	.600	WM6007-ND	.70	.62	.42	22-28-8070
8	.800	.700	WM6008-ND	.77	.68	.46	22-28-8080
9	.900	.800	WM6009-ND	.84	.74	.50	22-28-8090
10	1.000	.900	WM6010-ND	.91	.80	.54	22-28-8100
11	1.100	1.000	WM6011-ND	.98	.87	.58	22-28-8110
12	1.200	1.100	WM6012-ND	1.05	.93	.62	22-28-8120
14	1.400	1.300	WM6014-ND	1.18	1.05	.70	22-28-8140
16	1.600	1.500	WM6016-ND	1.32	1.17	.78	22-28-8160
18	1.800	1.700	WM6018-ND	1.46	1.30	.87	22-28-8180
20	2.000	1.900	WM6020-ND	1.60	1.42	.95	22-28-8200
22	2.200	2.100	WM6022-ND	1.74	1.54	1.03	22-28-8220
24	2.400	2.300	WM6024-ND	1.88	1.66	1.11	22-28-8240
26	2.600	2.500	WM6026-ND	2.02	1.79	1.19	22-28-8260
28	2.800	2.700	WM6028-ND	2.16	1.91	1.27	22-28-8280
30	3.000	2.900	WM6030-ND	2.30	2.03	1.36	22-28-8300
32	3.200	3.100	WM6032-ND	2.43	2.15	1.44	22-28-8320
34	3.400	3.300	WM6034-ND	2.57	2.28	1.52	22-28-8340
36	3.600	3.500	WM6036-ND	2.71	2.40	1.60	22-28-8360
Fig. 1 — Single Row, Right Angle - 15μ Select Gold							
2	.200	.100	WM6102-ND	.39	.34	.23	22-28-8022
3	.300	.200	WM6103-ND	.47	.42	.28	22-28-8032
4	.400	.300	WM6104-ND	.56	.50	.33	22-28-8042
5	.500	.400	WM6105-ND	.64	.57	.38	22-28-8052
6	.600	.500	WM6106-ND	.73	.65	.43	22-28-8062
7	.700	.600	WM6107-ND	.82	.73	.49	22-28-8072
8	.800	.700	WM6108-ND	.90	.80	.54	22-28-8082
9	.900	.800	WM6109-ND	.99	.88	.59	22-28-8092
10	1.000	.900	WM6110-ND	1.08	.95	.64	22-28-8102
11	1.100	1.000	WM6111-ND	1.16	1.03	.69	22-28-8112
12	1.200	1.100	WM6112-ND	1.25	1.11	.74	22-28-8122
14	1.400	1.300	WM6114-ND	1.42	1.26	.84	22-28-8142
16	1.600	1.500	WM6116-ND	1.59	1.41	.94	22-28-8162
18	1.800	1.700	WM6118-ND	1.77	1.56	1.04	22-28-8182
20	2.000	1.900	WM6120-ND	1.94	1.72	1.15	22-28-8202
22	2.200	2.100	WM6122-ND	2.11	1.87	1.25	22-28-8222
24	2.400	2.300	WM6124-ND	2.29	2.02	1.35	22-28-8242
26	2.600	2.500	WM6126-ND	2.46	2.17	1.45	22-28-8262
28	2.800	2.700	WM6128-ND	2.63	2.33	1.55	22-28-8282
30	3.000	2.900	WM6130-ND	2.80	2.48	1.65	22-28-8302
32	3.200	3.100	WM6132-ND	2.98	2.63	1.76	22-28-8322
34	3.400	3.300	WM6134-ND	3.15	2.78	1.86	22-28-8342
36	3.600	3.500	WM6136-ND	3.32	2.94	1.96	22-28-8362
Fig. 1 — Single Row, Right Angle - Tin							
2	.200	.100	WM6202-ND	.35	.31	.21	22-28-8021
3	.300	.200	WM6203-ND	.42	.38	.25	22-28-8031
4	.400	.300	WM6204-ND	.49	.44	.29	22-28-8041
5	.500	.400	WM6205-ND	.56	.50	.33	22-28-8051
6	.600	.500	WM6206-ND	.63	.56	.38	22-28-8061
7	.700	.600	WM6207-ND	.70	.62	.42	22-28-8071
8	.800	.700	WM6208-ND	.77	.68	.46	22-28-8081
9	.900	.800	WM6209-ND	.84	.74	.50	22-28-8091
10	1.000	.900	WM6210-ND	.91	.80	.54	22-28-8101
11	1.100	1.000	WM6211-ND	.98	.87	.58	22-28-8111
12	1.200	1.100	WM6212-ND	1.05	.93	.62	22-28-8121
14	1.400	1.300	WM6214-ND	1.18	1.05	.70	22-28-8141
16	1.600	1.500	WM6216-ND	1.32	1.17	.78	22-28-8161
18	1.800	1.700	WM6218-ND	1.46	1.30	.87	22-28-8181
20	2.000	1.900	WM6220-ND	1.60	1.42	.95	22-28-8201
22	2.200	2.100	WM6222-ND	1.74	1.54	1.03	22-28-8221
24	2.400	2.300	WM6224-ND	1.88	1.66	1.11	22-28-8241
26	2.600	2.500	WM6226-ND	2.02	1.79	1.19	22-28-8261
28	2.800	2.700	WM6228-ND	2.16	1.91	1.27	22-28-8281
30	3.000	2.900	WM6230-ND	2.30	2.03	1.36	22-28-8301
32	3.200	3.100	WM6232-ND	2.43	2.15	1.44	22-28-8321
34	3.400	3.300	WM6234-ND	2.57	2.28	1.52	22-28-8341
36	3.600	3.500	WM6236-ND	2.71	2.40	1.60	22-28-8361
Fig. 1 — Single Row, Right Angle - 15μ Select Gold							
2	.200	.100	WM6302-ND	.39	.34	.23	22-28-8023
3	.300	.200	WM6303-ND	.47	.42	.28	22-28-8033
4	.400	.300	WM6304-ND	.56	.50	.33	22-28-8043
5	.500	.400	WM6305-ND	.64	.57	.38	22-28-8053
6	.600	.500	WM6306-ND	.73	.65	.43	22-28-8063
7	.700	.600	WM6307-ND	.82	.73	.49	22-28-8073
8	.800	.700	WM6308-ND	.90	.80	.54	22-28-8083
9	.900	.800	WM6309-ND	.99	.88	.59	22-28-8093
10	1.000	.900	WM6310-ND	1.08	.95	.64	22-28-8103
11	1.100	1.000	WM6311-ND	1.16	1.03	.69	22-28-8113
12	1.200	1.100	WM6312-ND	1.25	1.11	.74	22-28-8123
14	1.400	1.300	WM6314-ND	1.42	1.26	.84	22-28-8143
16	1.600	1.500	WM6316-ND	1.59	1.41	.94	22-28-8163
18	1.800	1.700	WM6318-ND	1.77	1.56	1.04	22-28-8183
20	2.000	1.900	WM6320-ND	1.94	1.72	1.15	22-28-8203
22	2.200	2.100	WM6322-ND	2.11	1.87	1.25	22-28-8223
24	2.400	2.300	WM6324-ND	2.29	2.02	1.35	22-28-8243
26	2.600	2.500	WM6326-ND	2.46	2.17	1.45	22-28-8263
28	2.800	2.700	WM6328-ND	2.63	2.33	1.55	22-28-8283
30	3.000	2.900	WM6330-ND	2.80	2.48	1.65	22-28-8303
32	3.200	3.100	WM6332-ND	2.98	2.63	1.76	22-28-8323
34	3.400	3.300	WM6334-ND	3.15	2.78	1.86	22-28-8343
36	3.600	3.500	WM6336-ND	3.32	2.94	1.96	22-28-8363
Fig. 2 — Single Row, Vertical - Tin							
2	.200	.100	WM6402-ND	.29	.26	.18	22-28-4020
3	.300	.200	WM6403-ND	.33	.30	.20	22-28-4030
4	.400	.300	WM6404-ND	.37	.33	.22	22-28-4040
5	.500	.400	WM6405-ND	.41	.37	.25	22-28-4050
6	.600	.500	WM6406-ND	.45	.40	.27	22-28-4060
7	.700	.600	WM6407-ND	.49	.43	.29	22-28-4070
8	.800	.700	WM6408-ND	.53	.47	.31	22-28-4080
9	.900	.800	WM6409-ND	.57	.50	.34	22-28-4090
10	1.000	.900	WM6410-ND	.61	.54	.36	22-28-4100
11	1.100	1.000	WM6411-ND	.64	.57	.38	22-28-4110
12	1.200	1.100	WM6412-ND	.68	.61	.41	22-28-4120
14	1.400	1.300	WM6414-ND	.76	.68	.45	22-28-4140
16	1.600	1.500	WM6416-ND	.84	.75	.50	22-28-4160
18	1.800	1.700	WM6418-ND	.92	.82	.55	22-28-4180
20	2.000	1.900	WM6420-ND	1.00	.89	.59	22-28-4200
22	2.200	2.100	WM6422-ND	1.08	.95	.64	22-28-4220
24	2.400	2.300	WM6424-ND	1.16	1.02	.68	22-28-4240
26	2.600	2.500	WM6426-ND	1.23	1.09	.73	22-28-4260
28	2.800	2.700	WM6428-ND	1.31	1.16	.78	22-28-4280
30	3.000	2.900	WM6430-ND	1.39	1.23	.82	22-28-4300
32	3.200	3.100	WM6432-ND	1.47	1.30	.87	22-28-4320
34	3.400	3.300	WM6434-ND	1.55	1.37	.92	22-28-4340
36	3.600	3.500	WM6436-ND	1.63	1.44	.96	22-28-4360
Fig. 2 — Single Row, Vertical - 15μ Select Gold							
2	.200	.100	WM6502-ND	.32	.29	.19	22-28-4023
3	.300	.200	WM6503-ND	.38	.34	.23	22-28-4033
4	.400	.300	WM6504-ND	.43	.38	.26	22-28-4043
5	.500	.400	WM6505-ND	.48	.43	.29	22-28-4053
6	.600	.500	WM6506-ND	.54	.48	.32	22-28-4063
7	.700	.600	WM6507-ND	.59	.53	.35	22-28-4073
8	.800	.700	WM6508-ND	.65	.58	.39	22-28-4083
9	.900	.800	WM6509-ND	.70	.62	.42	22-28-4093
10	1.000	.900	WM6510-ND	.76	.67	.45	22-28-4103
11	1.100	1.000	WM6511-ND	.81	.72	.48	22-28-4113
Fig. 2 — Single Row, Vertical - 15μ Select Gold							
12	1.200	1.100	WM6512-ND	.86	.77	.51	22-28-4123
14	1.400	1.300	WM6514-ND	.97	.86	.58	22-28-4143
16	1.600	1.500	WM6516-ND	1.08	.96	.64	22-28-4163
18	1.800	1.700	WM6518-ND	1.19	1.06	.71	22-28-4183
20	2.000	1.900	WM6520-ND	1.30	1.15	.77	22-28-4203
22	2.200	2.100	WM6522-ND	1.41	1.25	.83	22-28-4223
24	2.400	2.300	WM6524-ND	1.52	1.34	.90	22-28-4243
26	2.600	2.500	WM6526-ND	1.63	1.44	.96	22-28-4263
28	2.800	2.700	WM6528-ND	1.73	1.54	1.03	22-28-4283
30	3.000	2.900	WM6530-ND	1.84	1.63	1.09	22-28-4303
32	3.200	3.100	WM6532-ND	1.95	1.73	1.15	22-28-4323
34	3.400	3.300	WM6534-ND	2.06	1.82	1.22	22-28-4343
36	3.600	3.500	WM6536-ND	2.17	1.92	1.28	22-28-4363
Fig. 2 — Single Row, Vertical - Tin							
2	.200	.100	WM6602-ND	.32	.29	.19	22-28-4021
3	.300	.200	WM6603-ND	.38	.34	.23	22-28-4031
4	.400	.300	WM6604-ND	.43	.38	.26	22-28-4041
5	.500	.400	WM6605-ND	.48	.43	.29	22-28-4051
6	.600	.500	WM6606-ND	.54	.48	.32	22-28-4061
7	.700	.600	WM6607-ND	.59	.53	.35	22-28-4071
8	.800	.700	WM6608-ND	.65	.58	.39	22-28-4081
9	.900	.800	WM6609-ND	.70	.62	.42	22-28-4091
10	1.000	.900	WM6610-ND	.76	.67	.45	22-28-4101
11	1.100	1.000	WM6611-ND	.81	.72	.48	22-28-4111
12	1.200	1.100	WM6612-ND	.86	.77	.51	22-28-4121
14	1.400	1.300	WM6614-ND	.97	.86	.58	22-28-4141
18	1.800	1.700	WM6618-ND	1.19	1.06	.71	22-28-4181
20	2.000	1.900	WM6620-ND	1.30	1.15	.77	22-28-4201
22	2.200	2.100	WM6622-ND	1.41	1.25	.83	22-28-4221
24	2.400	2.300	WM6624-ND	1.52	1.34	.90	22-28-4241
26	2.600	2.500	WM6626-ND	1.63	1.44	.96	22-28-4261
28	2.800	2.700	WM6628-ND	1.73	1.54	1.03	22-28-4281
30	3.000	2.900	WM6630-ND	1.84	1.63	1.09	22-28-4301
32	3.200	3.100	WM6632-ND	1.95	1.73	1.15	22-28-4321
34	3.400	3.300	WM6634-ND	2.06	1.82	1.22	22-28-4341
36	3.600	3.500	WM6636-ND	2.17	1.92	1.28	22-28-4361
Fig. 2 — Single Row, Vertical - 15μ Select Gold							
2	.200	.100	WM6702-ND	.35	.31	.21	22-28-4024
3	.300	.200	WM6703-ND	.41	.37	.25	22-28-4034
4	.400	.300	WM6704-ND	.48	.43	.29	22-28-4044
5	.500	.400	WM6705-ND	.55	.49	.33	22-28-4054
6	.600	.500	WM6706-ND	.62	.55	.37	22-28-4064
7	.700	.600	WM6707-ND	.68	.61	.41	22-28-4074
8	.800	.700	WM6708-ND	.75	.67	.45	22-28-4084
9	.900	.800	WM6709-ND	.82	.73	.49	22-28-4094
10	1.000	.900	WM6710-ND	.89	.79	.53	22-28-4104
11	1.100	1.000	WM6711-ND	.95	.85	.57	22-28-4114
12	1.200	1.100	WM6712-ND	1.02	.91	.61	22-28-4124
14	1.400	1.300	WM6714-ND	1.16	1.03	.69	22-28-4144
16	1.600	1.500	WM6716-ND	1.29	1.14	.76	22-28-4164
18	1.800	1.700	WM6718-ND	1.43	1.26	.84	22-28-4184
20	2.000	1.900	WM6720-ND	1.56	1.38	.92	22-28-4204
22	2.200	2.100	WM6722-ND	1.70	1.50	1.00	22-28-4224
24	2.400	2.300	WM6724-ND	1.83	1.62	1.08	22-28-4244
26	2.600	2.500	WM6726-ND	1.97	1.74	1.16	22-28-4264
28	2.800	2.700	WM6728-ND	2.10	1.86	1.24	22-28-4284
30	3.000	2.900	WM6730-ND	2.24	1.98	1.32	22-28-4304
32	3.200	3.100	WM6732-ND	2.37	2.10	1.40	22-28-4324
34	3.400	3.300	WM6734-ND	2.51	2.22	1.48	22-28-4344
36	3.600	3.500	WM6736-ND	2.64	2.33	1.56	22-28-4364
Fig. 3 — Single Row, Vertical - Tin							
2	.200	.100	WM17435-ND	.32	.29	.19	68301-1054
3	.300	.200	WM17436-ND	.46	.41	.28	68301-1014
4	.400	.300	WM17437-ND	.56	.50	.33	68301-1015
5	.500	.400	WM17438-ND	.70	.62	.42	68301-1016
6	.600	.500	WM17439-ND	.83	.74	.49	68301-1017
7	.700	.600	WM17440-ND	.98	.87	.58	68301-1018
8	.800	.700	WM17441-ND	1.14	1.01	.67	68301-1019
Fig. 3 — Single Row, Vertical - 15μ Select Gold							
2	.200	.100	WM17442-ND	.38	.34	.23	68301-1055

(Continued)

Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
3	.300	.200	WM17443-ND	.54	.48	.32	68301-1009
4	.400	.300	WM17444-ND	.69	.61	.41	68301-1010
5	.500	.400	WM17445-ND	.84	.74	.50	68301-1006
6	.600	.500	WM17446-ND	.98	.87	.58	68301-1011
7	.700	.600	WM17447-ND	1.13	1.00	.67	68301-1012
8	.800	.700	WM17448-ND	1.29	1.14	.76	68301-1013

.100” C-Grid® Breakaway Header

NEW! Fig. 4 — Dual Row, Vertical - 15µ min. Select Gold — RoHS Compliant NEW!

Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
4	.200	.100	WM26804-ND	.55	.49	.33	10-89-7042
6	.300	.200	WM26806-ND	.71	.63	.42	10-89-7062
8	.400	.300	WM26808-ND	.88	.78	.52	10-89-7082
10	.500	.400	WM26810-ND	1.05	.93	.62	10-89-7102
12	.600	.500	WM26812-ND	1.21	1.08	.72	10-89-7122
14	.700	.600	WM26814-ND	1.38	1.22	.82	10-89-7142
16	.800	.700	WM26816-ND	1.55	1.37	.92	10-89-7162
18	.900	.800	WM26818-ND	1.72	1.52	1.01	10-89-7182
20	1.000	.900	WM26820-ND	1.88	1.67	1.11	10-89-7202
22	1.100	1.000	WM26822-ND	2.05	1.81	1.21	10-89-7222
24	1.200	1.100	WM26824-ND	2.22	1.96	1.31	10-89-7242
26	1.300	1.200	WM26826-ND	2.38	2.11	1.41	10-89-7262
28	1.400	1.300	WM26828-ND	2.55	2.25	1.50	10-89-7282
30	1.500	1.400	WM26830-ND	2.72	2.40	1.60	10-89-7302
32	1.600	1.500	WM26832-ND	2.88	2.55	1.70	10-89-7322
34	1.700	1.600	WM26834-ND	3.05	2.70	1.80	10-89-7342
36	1.800	1.700	WM26836-ND	3.22	2.84	1.90	10-89-7362
38	1.900	1.800	WM26838-ND	3.38	2.99	2.00	10-89-7382
40	2.000	1.900	WM26840-ND	3.55	3.14	2.09	10-89-7402
42	2.100	2.000	WM26842-ND	3.72	3.29	2.19	10-89-7422
44	2.200	2.100	WM26844-ND	3.89	3.43	2.29	10-89-7442
46	2.300	2.200	WM26846-ND	4.05	3.58	2.39	10-89-7462
48	2.400	2.300	WM26848-ND	4.22	3.73	2.49	10-89-7482
50	2.500	2.400	WM26850-ND	4.39	3.87	2.59	10-89-7502
52	2.600	2.500	WM26852-ND	4.55	4.02	2.68	10-89-7522
54	2.700	2.600	WM26854-ND	4.72	4.17	2.78	10-89-7542
56	2.800	2.700	WM26856-ND	4.89	4.32	2.88	10-89-7562
58	2.900	2.800	WM26858-ND	5.05	4.46	2.98	10-89-7582
60	3.000	2.900	WM26860-ND	5.22	4.61	3.08	10-89-7602
62	3.100	3.000	WM26862-ND	5.39	4.76	3.17	10-89-7622
64	3.200	3.100	WM26864-ND	5.56	4.91	3.27	10-89-7642
66	3.300	3.200	WM26866-ND	5.72	5.05	3.37	10-89-7662
68	3.400	3.300	WM26868-ND	5.89	5.20	3.47	10-89-7682
70	3.500	3.400	WM26870-ND	6.06	5.35	3.57	10-89-7702
72	3.600	3.500	WM26872-ND	6.22	5.50	3.67	10-89-7722
74	3.700	3.600	WM26874-ND	6.39	5.64	3.76	10-89-7742
76	3.800	3.700	WM26876-ND	6.56	5.79	3.86	10-89-7762
78	3.900	3.800	WM26878-ND	6.72	5.94	3.96	10-89-7782
80	4.000	3.900	WM26880-ND	6.89	6.08	4.06	10-89-7802
100	5.000	4.900	WM268100-ND	8.56	7.56	5.04	70280-0458

Fig. 4 — Dual Row, Vertical, Compliant Press Fit Tail - 15µ min. Select Gold

Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
4	.190	.100	WM7504-ND	.89	.79	.53	75102-0040
6	.290	.200	WM7506-ND	1.22	1.08	.72	75102-0041
8	.390	.300	WM7508-ND	1.56	1.38	.92	75102-0042
10	.490	.400	WM7510-ND	1.90	1.68	1.12	75102-0043
12	.590	.500	WM7512-ND	2.23	1.98	1.32	75102-0044
14	.690	.600	WM7514-ND	2.57	2.27	1.52	75102-0045
16	.790	.700	WM7516-ND	2.91	2.57	1.72	75102-0046
18	.890	.800	WM7518-ND	3.24	2.87	1.91	75102-0047
20	.990	.900	WM7520-ND	3.58	3.16	2.11	75102-0048
22	1.090	1.000	WM7522-ND	3.92	3.46	2.31	75102-0049
24	1.190	1.100	WM7524-ND	4.26	3.76	2.51	75102-0050
26	1.290	1.200	WM7526-ND	4.59	4.06	2.71	75102-0051
28	1.390	1.300	WM7528-ND	4.93	4.35	2.90	75102-0052
30	1.490	1.400	WM7530-ND	5.27	4.65	3.10	75102-0053
32	1.590	1.500	WM7532-ND	5.60	4.95	3.30	75102-0054
34	1.690	1.600	WM7534-ND	5.94	5.25	3.50	75102-0055
36	1.790	1.700	WM7536-ND	6.28	5.54	3.70	75102-0056
38	1.890	1.800	WM7538-ND	6.61	5.84	3.90	75102-0057
40	1.990	1.900	WM7540-ND	6.95	6.14	4.09	75102-0058
42	2.090	2.000	WM7542-ND	7.29	6.43	4.29	75102-0059
44	2.190	2.100	WM7544-ND	7.62	6.73	4.49	75102-0060
46	2.290	2.200	WM7546-ND	7.96	7.03	4.69	75102-0061
48	2.390	2.300	WM7548-ND	8.30	7.33	4.89	75102-0062
50	2.490	2.400	WM7550-ND	8.64	7.62	5.08	75102-0063
52	2.590	2.500	WM7552-ND	8.97	7.92	5.28	75102-0064
54	2.690	2.600	WM7554-ND	9.31	8.22	5.48	75102-0065
56	2.790	2.700	WM7556-ND	9.65	8.52	5.68	75102-0066
58	2.890	2.800	WM7558-ND	9.98	8.81	5.88	75102-0067
60	2.990	2.900	WM7560-ND	10.32	9.11	6.08	75102-0068
62	3.090	3.000	WM7562-ND	10.66	9.41	6.27	75102-0069
64	3.190	3.100	WM7564-ND	10.99	9.70	6.47	75102-0070
66	3.290	3.200	WM7566-ND	11.33	10.00	6.67	75102-0071
68	3.390	3.300	WM7568-ND	11.67	10.30	6.87	75102-0072
70	3.490	3.400	WM7570-ND	12.00	10.60	7.07	75102-0073
72	3.590	3.500	WM7572-ND	12.34	10.89	7.26	75102-0074
74	3.690	3.600	WM7574-ND	12.68	11.19	7.46	75102-0075
76	3.790	3.700	WM7576-ND	13.02	11.49	7.66	75102-0076

NEW! Fig. 4 — Dual Row, Vertical, Compliant Press Fit Tail - 15µ min. Select Gold — RoHS Compliant NEW!

Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
4	.200	.100	WM26904-ND	.49	.43	.29	10-89-7041
6	.300	.200	WM26906-ND	.62	.55	.37	10-89-7061
8	.400	.300	WM26908-ND	.76	.67	.45	10-89-7081
10	.500	.400	WM26910-ND	.90	.79	.53	10-89-7101
12	.600	.500	WM26912-ND	1.03	.92	.61	10-89-7121
14	.700	.600	WM26914-ND	1.17	1.04	.69	10-89-7141
16	.800	.700	WM26916-ND	1.31	1.16	.77	10-89-7161
18	.900	.800	WM26918-ND	1.44	1.28	.85	10-89-7181
20	1.000	.900	WM26920-ND	1.58	1.40	.93	10-89-7201
22	1.100	1.000	WM26922-ND	1.72	1.52	1.01	10-89-7221
24	1.200	1.100	WM26924-ND	1.85	1.64	1.09	10-89-7241
26	1.300	1.200	WM26926-ND	1.99	1.76	1.17	10-89-7261
28	1.400	1.300	WM26928-ND	2.13	1.88	1.25	10-89-7281
30	1.500	1.400	WM26930-ND	2.26	2.00	1.34	10-89-7301
32	1.600	1.500	WM26932-ND	2.40	2.12	1.42	10-89-7321
34	1.700	1.600	WM26934-ND	2.53	2.24	1.50	10-89-7341
36	1.800	1.700	WM26936-ND	2.67	2.36	1.58	10-89-7361
38	1.900	1.800	WM26938-ND	2.81	2.48	1.66	10-89-7381
40	2.000	1.900	WM26940-ND	2.94	2.60	1.74	10-89-7401
42	2.100	2.000	WM26942-ND	3.08	2.72	1.82	10-89-7421
44	2.200	2.100	WM26944-ND	3.22	2.84	1.90	10-89-7441
46	2.300	2.200	WM26946-ND	3.35	2.96	1.98	10-89-7461
48	2.400	2.300	WM26948-ND	3.49	3.08	2.06	10-89-7481
50	2.500	2.400	WM26950-ND	3.63	3.21	2.14	10-89-7501
52	2.600	2.500	WM26952-ND	3.76	3.33	2.22	10-89-7521
54	2.700	2.600	WM26954-ND	3.90	3.45	2.30	10-89-7541
56	2.800	2.700	WM26956-ND	4.04	3.57	2.38	10-89-7561
58	2.900	2.800	WM26958-ND	4.17	3.69	2.46	10-89-7581
60	3.000	2.900	WM26960-ND	4.31	3.81	2.54	10-89-7601
62	3.100	3.000	WM26962-ND	4.45	3.93	2.62	10-89-7621
64	3.200	3.100	WM26964-ND	4.58	4.05	2.70	10-89-7641
66	3.300	3.200	WM26966-ND	4.72	4.17	2.78	10-89-7661
68	3.400	3.300	WM26968-ND	4.86	4.29	2.86	10-89-7681
70	3.500	3.400	WM26970-ND	4.99	4.41	2.94	10-89-7701
72	3.600	3.500	WM26972-ND	5.13	4.53	3.02	10-89-7721
74	3.700	3.600	WM26974-ND	5.27	4.65	3.10	10-89-7741
76	3.800	3.700	WM26976-ND	5.40	4.77	3.18	10-89-7761
78	3.900	3.800	WM26978-ND	5.54	4.89	3.26	10-89-7781
80	4.000	3.900	WM26980-ND	5.68	5.01	3.34	10-89-7801
100	5.000	4.900	WM269100-ND	7.04	6.22	4.15	70280-0448

Fig. 4 — Dual Row, Vertical, Compliant Press Fit Tail - 150µ Tin/Lead, Nickel Overall

Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
4	.190	.100	WM7404-ND	.71	.63	.42	75102-0079
6	.290	.200	WM7406-ND	.96	.85	.57	75102-0080
8	.390	.300	WM7408-ND	1.21	1.07	.72	75102-0081
10	.490	.400	WM7410-ND	1.46	1.29	.86	75102-0082
12	.590	.500	WM7412-ND	1.71	1.51	1.01	75102-0083
14	.690	.600	WM7414-ND	1.96	1.73	1.16	75102-0084
16	.790	.700	WM7416-ND	2.21	1.95	1.30	75102-0085
18	.890	.800	WM7418-ND	2.46	2.17	1.45	75102-0086
20	.990	.900	WM7420-ND	2.70	2.39	1.60	75102-0087
22	1.090	1.000	WM7422-ND	2.95	2.61	1.74	75102-0088
24	1.190	1.100	WM7424-ND	3.20	2.83	1.89	75102-0089
26	1.290	1.200	WM7426-ND	3.45	3.05	2.04	75102-0090
28	1.390	1.300	WM7428-ND	3.70	3.27	2.18	75102-0091
30	1.490	1.400	WM7430-ND	3.95	3.49	2.33	75102-0092
32	1.590	1.500	WM7432-ND	4.20	3.71	2.48	75102-0093
34	1.690	1.600	WM7434-ND	4.45	3.93	2.62	75102-0094
36	1.790	1.700	WM7436-ND	4.70	4.15	2.77	75102-0095
38	1.890	1.800	WM7438-ND	4.95	4.37	2.91	75102-0096
40	1.990	1.900	WM7440-ND	5.20	4.59	3.06	75102-0097
42	2.090	2.000	WM7442-ND	5.45	4.81	3.21	75102-0098
44	2.190	2.100	WM7444-ND	5.69	5.03	3.35	75102-0099
46	2.290	2.200	WM7446-ND	5.94	5.25	3.50	75102-0100
48	2.390	2.300	WM7448-ND	6.19	5.47	3.65	75102-0101
50	2.490	2.400	WM7450-ND	6.44	5.69	3.79	75102-0102
52	2.590	2.500	WM7452-ND	6.69	5.91	3.94	75102-0103
54	2.690	2.600	WM7454-ND	6.94	6.13	4.09	75102-0104
56	2.790	2.700	WM7456-ND	7.19	6.35	4.23	75102-0105
58	2.890	2.800	WM7458-ND	7.44	6.57	4.38	75102-0106
60	2.990	2.900	WM7460-ND	7.69	6.79	4.53	75102-0107
62	3.090	3.000	WM7462-ND	7.94	7.01	4.67	75102-0108
64	3.190	3.100	WM7464-ND	8.19	7.23	4.82	75102-0109
66	3.290	3.200	WM7466-ND	8.44	7.45	4.97	75102-0110
68	3.390	3.300	WM7468-ND	8.68	7.67	5.11	75102-0111
70	3.490	3.400	WM7470-ND	8.93	7.89	5.26	75102-0112
72	3.590	3.500	WM7472-ND	9.18	8.11	5.41	75102-0113
74	3.690	3.600	WM7474-ND	9.43	8.33	5.55	75102-0114
76	3.790	3.700	WM7476-ND	9.68	8.55	5.70	75102-0115
78	3.890	3.800	WM7478-ND	10.18	8.99	5.99	75102-0116
80	3.990	3.900	WM7480-ND	10.18	8.99	5.99	75102-0117

NEW! Fig. 5 — Dual Row, Low Profile, Right Angle - 15µ min. Select Gold — RoHS Compliant NEW!

Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
4	.200	.100	WM27004-ND	.60	.53	.35	71764-0104
6	.300	.200	WM27006-ND	.79	.70	.47	71764-0106
8	.400	.300	WM27008-ND	.98	.87	.58	71764-0108
10	.500	.400	WM27010-ND	1.17	1.04	.69	71764-0110
12	.600	.500	WM27012-ND	1.36	1.20	.80	71764-0112
14	.700	.600	WM27014-ND	1.55	1.37	.92	71764-0114
16	.800	.700	WM27016-ND	1.74	1.54	1.03	71764-0116
18	.900	.800	WM27018-ND	1.93	1.71	1.14	71764-0118
20	1.000	.900	WM27020-ND	2.13	1.88	1.25	71764-0120
22	1.100	1.000	WM27022-ND	2.32	2.05	1.37	71764-0122
24	1.200	1.100	WM27024-ND	2.51	2.22	1.48	71764-0124
26	1.300	1.200	WM27026-ND	2.70	2.39	1.59	71764-0126
28	1.400	1.300	WM27028-ND	2.89	2.55	1.70	71764-0128
30	1.500	1.400	WM27030-ND	3.08	2.72	1.82	71764-0130
32	1.600	1.500	WM27032-ND	3.27	2.89	1.93	71764-0132
34	1.700	1.600	WM27034-ND	3.46	3.06	2.04	71764-0134
36	1.800	1.700	WM27036-ND	3.66	3.23	2.15	71764-0136
38	1.900	1.800	WM27038-ND	3.85	3.40	2.27	71764-0138
40	2.000	1.900	WM27040-ND	4.04	3.57	2.38	71764-0140
42	2.100	2.000	WM27042-ND	4.23	3.74	2.49	71764-0142
44	2.200	2.100	WM27044-ND	4.42	3.90	2.60	71764-0144
46	2.300	2.200	WM27046-ND	4.61	4.07	2.72	71764-0146
48	2.400	2.300	WM27048-ND	4.80	4.24	2.83	71764-0148
50	2.500	2.400	WM27050-ND	4.99	4.41	2.94	71764-0150
52	2.600	2.500	WM27052-ND	5.19	4.58	3.05	71764-0152
54	2.700	2.600	WM27054-ND	5.38	4.75	3.17	71764-0154
56	2.800	2.700	WM27056-ND	5.57	4.92	3.28	71764-0156
58	2.900	2.800	WM27058-ND	5.76	5.09	3.39	71764-0158
60	3.000	2.900	WM27060-ND	5.95	5.25	3.50	71764-0160
62	3.100	3.000	WM27062-ND	6.14	5.42	3.62	71764-0162
64	3.200	3.100	WM27064-ND	6.33	5.59	3.73	71764-0164
66	3.300	3.200	WM27066-ND	6.52	5.76	3.84	71764-0166
68	3.400	3.300	WM27068-ND	6.72	5.93	3.95	71764-0168
70	3.500	3.400	WM27070-ND	6.91	6.10	4.07	71764-0170
72	3.600	3.500	WM27072-ND	7.10	6.27	4.18	71764-0172
74	3.700	3.600	WM27074-ND	7.29	6.44	4.29	71764-0174
76	3.800	3.700	WM27076-ND	7.48	6.60	4.40	71764-0176
78	3.900	3.800	WM27078-ND	7.67	6.77	4.52	71764-0178
80	4.000	3.900	WM27080-ND	7.86	6.94	4.63	71764-0180

NEW! Fig. 5 — Dual Row, Low Profile, Right Angle - 150µ Tin/Lead, Nickel Overall — RoHS Compliant NEW!

Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
4	.200	.100	WM27104-ND	.50	.45	.30	71764-0004
6	.300	.200	WM27106-ND	.64	.57	.38	71764-0006
8	.400	.300	WM27108-ND	.79	.70	.47	71764-0008
10	.500	.400	WM27110-ND	.93	.82	.55	71764-0010
12	.600	.500	WM27112-ND	1.07	.95	.64	71764-0012
14	.700	.600	WM27114-ND	1.22	1.08	.72	71764-0014
16	.800	.700	WM27116-ND	1.36	1.20	.80	71764-0016
18	.900	.800	WM27118-ND	1.50	1.33	.89	71764-0018
20	1.000	.900	WM27120-ND	1.65	1.46	.97	71764-0020
22	1.100	1.000	WM27122-ND	1.79	1.58	1.06	71764-0022
24	1.200	1.100	WM27124-ND	1.93	1.71	1.14	71764-0024
26	1.300	1.200	WM27126-ND	2.08	1.84	1.23	71764-0026
28	1.400	1.300	WM27128-ND	2.22	1.96	1.31	71764-0028
30	1.500	1.400	WM27130-ND	2.36	2.09	1.40	71764-0030
32	1.600	1.500	WM27132-ND	2.51	2.22	1.48	71764-0032
34	1.700	1.600	WM27134-ND	2.65	2.34	1.56	71764-0034
36	1.800	1.700	WM27136-ND	2.79	2.47	1.65	71764-0036
38	1.900	1.800	WM27138-ND	2.94	2.60	1.73	71764-0038
40	2.000	1.900	WM27140-ND	3.08	2.72	1.82	71764-0040
42	2.100	2.000	WM27142-ND	3.22	2.85	1.90	71764-0042
44	2.200	2.100	WM27144-ND	3.37	2.98	1.99	71764-0044
46	2.300	2.200	WM27146-ND	3.51	3.10	2.07	71764-0046
48	2.400	2.300	WM27148-ND	3.66	3.23	2.15	71764-0048
50	2.500	2.400	WM27150-ND	3.80	3.36	2.24	71764-0050
52	2.600	2.500	WM27152-ND	3.94	3.48	2.32	71764-0052
54	2.700	2.600	WM27154-ND	4.09	3.61	2.41	71764-0054
56	2.800	2.700	WM27156-ND	4.23	3.74	2.49	71764-0056
58	2.900	2.800	WM27158-ND	4.37	3.86	2.58	71764-0058
60	3.000	2.900	WM27160-ND	4.52	3.99	2.66	71764-0060
62	3.100	3.000	WM27162-ND	4.66	4.12	2.75	71764-0062
64	3.200	3.100	WM27164-ND	4.80	4.24	2.83	71764-0064
66	3.300	3.200	WM27166-ND	4.95	4.37	2.91	71764-0066
68	3.400	3.300	WM27168-ND	5.09	4.50	3.00	71764-0068
70	3.500	3.400	WM27170-ND	5.23	4.62	3.08	71764-0070
72	3.600	3.500	WM27172-ND	5.38	4.75	3.17	71764-0072
74	3.700	3.600	WM27174-ND	5.52	4.87	3.25	71764-0074
76	3.800	3.700	WM27176-ND	5.66	5.00	3.34	71764-0076
78	3.900	3.800	WM27178-ND	5.81	5.13	3.42	71764-0078
80	4.000	3.900	WM27180-ND	5.95	5.25	3.50	71764-0080

Fig. 6 — Dual Row, Vertical - Tin

Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
6	.300	.200	WM17449-ND	1.26	1.11	.74	15-91-2060
8	.400	.300	WM17450-ND	1.60	1.41	.94	15-91-2080
10	.500	.400	WM17451-ND	1.79	1.59	1.06	15-91-2100
12	.600	.500	WM17452-ND	2.30	2.03	1.36	15-91-2120
14	.700	.600	WM17453-ND	2.73	2.42	1.61	15-91-2140
16	.800	.700	WM17454-ND	2.87	2.53	1.69	15-91-2160
18	.900	.800	WM17455-ND	3.04	2.69	1.79	15-91-2180
20	1.000	.900	WM17456-ND	3.60	3.18	2.12	15-91-2200

Fig. 6 — Dual Row, Vertical - 15µ Select Gold

Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
6	.300	.200	WM17457-ND	1.57	1.39	.93	15-91-0060
8	.400	.300	WM17458-ND	1.87	1.65	1.11	15-91-0080
10	.500	.400	WM17459-ND	2.15	1.90	1.27	15-91-0100
12	.600	.500	WM17460-ND	2.73	2.41	1.61	15-91-0120
14	.700	.600	WM17461-ND	3.23	2.85	1.91	15-91-0140
16	.800	.700	WM17462-ND	3.44	3.04	2.03	15-91-0160
18	.900	.800	WM17463-ND	4.10	3.62	2.42	15-91-0180
20	1.000	.900	WM17464-ND	4.31	3.80	2.54	15-91-0200

.100” KK® PC Board Receptacles, Top and Bottom Entry, Low Profile

Material:
- Housing: High temperature nylon, Glass-filled, UL 94V, Color: Black
- Terminal: Modified Tin/Brass alloy

Finish:
- Tin: 200µ Minimum
- Select Gold: 15µ Minimum

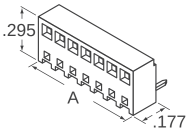

Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
Tin						
2	.230 (5.84)	WM18590-ND	.34	.31	.21	44812-0002
3	.330 (8.38)	WM18591-ND	.49	.44	.29	44812-0003
4	.430 (10.92)	WM18592-ND	.68	.61	.41	44812-0004
5	.530 (13.46)	WM18593-ND	.85	.76	.51	44812-0005
6	.630 (16.00)	WM18594-ND	1.03	.91	.61	44812-0006
7	.730 (18.54)	WM18595-ND	1.19	1.06	.71	44812-0007
8	.830 (21.08)	WM18596-ND	1.37	1.21	.81	44812-0008
9	.930 (23.62)	WM18597-ND	1.54	1.36	.91	44812-0009
10	1.030 (26.16)	WM18598-ND	1.71	1.51	1.01	44812-0010
11	1.130 (28.70)	WM18599-ND	1.88	1.67	1.11	44812-0011
12	1.230 (31.24)	WM18600-ND	2.05	1.81	1.21	44812-0012
Select Gold						
2	.230 (5.84)	WM18601-ND	.66	.59	.39	44812-0020
3	.330 (8.38)	WM18602-ND	.99	.88	.59	44812-0021
4	.430 (10.92)	WM18603-ND	1.32	1.17	.78	44812-0022
5	.530 (13.46)	WM18604-ND	1.65	1.46	.98	44812-0023
6	.630 (16.00)	WM18605-ND	1.98	1.75	1.17	44812-0024
7	.730 (18.54)	WM18606-ND	2.31	2.05	1.37	44812-0025
8	.830 (21.08)	WM18607-ND	2.64	2.33	1.56	44812-0026
9	.930 (23.62)	WM18608-ND	2.97	2.63	1.75	44812-0027
10	1.030 (26.16)	WM18609-ND	3.30	2.92	1.95	44812-0028
11	1.130 (28.70)	WM18610-ND	3.63	3.21	2.14	44812-0029
12	1.230 (31.24)	WM18611-ND	3.96	3.50	2.33	44812-0030

.100” (2.54mm) Center Headers

.025” (.64mm) Square Pins The Molex KK® Concept utilizes a double cantilever contact design in mating with P.C. board pins. UL Recognized (File #29179), CSA Recognized (File 19980) **Voltage Rating:** 250VAC maximum **Current Rating:** Up to 2.5 Amps (with 22 AWG wire) **Resistance:** 20mΩ maximumm **Dielectric Withstanding Voltage:** 1500VAC for 60 seconds **Storage Temp.:** -40°C ~ 105°C **Material:** 94V-0

Fig. 1 - Straight Header

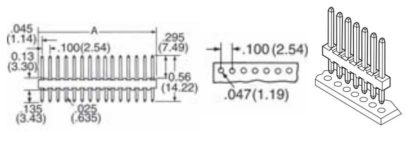

Fig. 2 - Right Angle Header

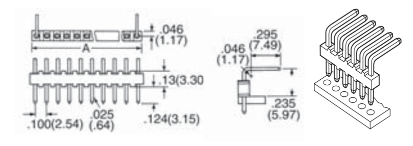

Fig. 3 - Straight-Friction Lock Header

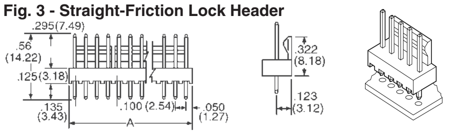

Fig. 4 - Right Angle-Friction Lock Header

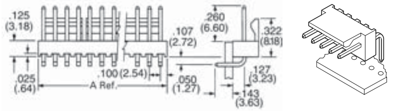

Fig. 5 - Center Crimp Terminal Housing
(contacts sold separately)

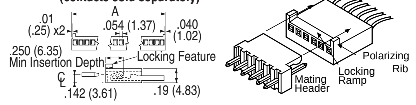

Fig.	Cir-cuits	Dim. A In. (mm)	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Molex Part No.
.100” (2.54mm) Center Headers Tin Plating									
1	2	.190 (4.83)	WM4000-ND	.28	2.47	16.48	65.93	109.44	22-03-2021
	3	.290 (7.37)	WM4001-ND	.41	3.66	24.38	97.52	161.88	22-03-2031
	4	.390 (9.91)	WM4002-ND	.51	4.54	30.26	121.05	200.94	22-03-2041
	5	.490 (12.45)	WM4003-ND	.61	5.41	36.09	144.37	239.65	22-03-2051
	6	.590 (14.99)	WM4004-ND	.71	6.30	41.98	167.90	278.71	22-03-2061
	7	.690 (17.53)	WM4005-ND	.82	7.23	48.23	192.92	320.25	22-03-2071
	8	.790 (20.07)	WM4006-ND	.82	7.23	48.23	192.92	320.25	22-03-2081
	9	.890 (22.61)	WM4007-ND	.91	8.03	53.53	214.12	355.44	22-03-2091
	10	.990 (25.15)	WM4008-ND	.91	8.05	53.66	214.65	356.32	22-03-2101
	11	1.090 (27.69)	WM4009-ND	1.00	8.84	58.94	235.74	391.33	22-03-2111
	12	1.190 (30.23)	WM4010-ND	1.08	9.55	63.68	254.72	422.84	22-03-2121
2	2	.190 (4.83)	WM4100-ND	.34	2.98	19.85	79.39	131.79	22-05-2021
	3	.290 (7.37)	WM4101-ND	.44	3.91	26.05	104.20	172.97	22-05-2031
	4	.390 (9.91)	WM4102-ND	.56	4.91	32.76	131.02	217.49	22-05-2041
	5	.490 (12.45)	WM4103-ND	.67	5.92	39.46	157.83	262.00	22-05-2051
	6	.590 (14.99)	WM4104-ND	.78	6.92	46.14	184.55	306.35	22-05-2061
	7	.690 (17.53)	WM4105-ND	.89	7.86	52.42	209.67	348.05	22-05-2071
	8	.790 (20.07)	WM4106-ND	1.01	8.93	59.52	238.08	395.21	22-05-2081
	9	.890 (22.61)	WM4107-ND	1.13	9.97	66.49	265.95	441.48	22-05-2091
	10	.990 (25.15)	WM4108-ND	1.13	10.00	66.65	266.59	442.54	22-05-2101
	11	1.090 (27.69)	WM4109-ND	1.24	10.94	72.90	291.61	484.07	22-05-2111
	12	1.190 (30.23)	WM4110-ND	1.33	11.75	78.31	313.23	519.96	22-05-2121
3	2	.200 (5.08)	WM4200-ND	.34	2.98	19.85	79.39	131.79	22-23-2021
	3	.300 (7.62)	WM4201-ND	.43	3.78	25.23	100.91	167.51	22-23-2031
	4	.400 (10.16)	WM4202-ND	.51	4.54	30.26	121.05	200.94	22-23-2041
	5	.500 (12.70)	WM4203-ND	.59	5.24	34.90	139.60	231.74	22-23-2051
	6	.600 (15.24)	WM4204-ND	.66	5.86	39.06	156.24	259.36	22-23-2061
	7	.700 (17.78)	WM4205-ND	.76	6.73	44.89	179.56	298.07	22-23-2071
	8	.800 (20.32)	WM4206-ND	.86	7.62	50.78	203.10	337.15	22-23-2081
	9	.900 (22.86)	WM4207-ND	.95	8.42	56.15	224.61	372.85	22-23-2091
	10	1.000 (25.40)	WM4208-ND	.96	8.49	56.61	226.42	375.86	22-23-2101
	11	1.100 (27.94)	WM4209-ND	1.05	9.28	61.88	247.51	410.87	22-23-2111
	12	1.200 (30.48)	WM4210-ND	1.13	10.00	66.65	266.59	442.54	22-23-2121
4	2	.200 (5.08)	WM4300-ND	.55	4.85	32.36	129.43	214.85	22-05-3021
	3	.300 (7.62)	WM4301-ND	.71	6.30	41.98	167.90	278.71	22-05-3031
	4	.400 (10.16)	WM4302-ND	.88	7.80	51.97	207.87	345.06	22-05-3041
	5	.500 (12.70)	WM4303-ND	.95	8.42	56.15	224.61	372.85	22-05-3051
	6	.600 (15.24)	WM4304-ND	1.05	9.30	62.01	248.04	411.75	22-05-3061
	7	.700 (17.78)	WM4305-ND	1.22	10.73	71.52	286.09	474.91	22-05-3071
	8	.800 (20.32)	WM4306-ND	1.26	11.12	74.15	296.59	492.34	22-05-3081
	9	.900 (22.86)	WM4307-ND	1.30	11.50	76.64	306.55	508.87	22-05-3091
	10	1.000 (25.40)	WM4308-ND	1.32	11.62	77.46	309.84	514.33	22-05-3101
	11	1.100 (27.94)	WM4309-ND	1.44	12.69	84.59	338.35	561.66	22-05-3111
	12	1.200 (30.48)	WM4310-ND	1.47	13.00	86.68	346.73	575.57	22-05-3121
.100” (2.54mm) Center Header Gold Plating									
1	2	.190 (4.83)	WM2722-ND	.62	5.48	36.52	146.07	242.48	22-10-2021
	3	.290 (7.37)	WM2723-ND	.86	7.55	50.32	201.29	334.14	22-10-2031
	4	.390 (9.91)	WM2724-ND	1.10	9.75	64.98	259.91	431.45	22-10-2041
	5	.490 (12.45)	WM2725-ND	1.35	11.94	79.61	318.42	528.58	22-10-2051
	6	.590 (14.99)	WM2726-ND	1.59	14.07	93.81	375.24	622.90	22-10-2061
	7	.690 (17.53)	WM2727-ND	1.77	15.57	103.83	415.31	689.41	22-10-2071
	8	.790 (20.07)	WM2728-ND	2.01	17.70	118.03	472.12	783.72	22-10-2081
	9	.890 (22.61)	WM2729-ND	2.25	19.81	132.08	528.30	876.98	22-10-2091
	10	.990 (25.15)	WM2730-ND	2.48	21.85	145.65	582.58	967.08	22-10-2101
	11	1.090 (27.69)	WM2731-ND	2.73	24.06	160.43	641.72	1065.26	22-10-2111
	12	1.190 (30.23)	WM2732-ND	2.96	26.08	173.87	695.47	1154.48	22-10-2121
2	2	.190 (4.83)	WM2733-ND	.66	5.80	38.64	154.55	256.55	22-12-2021
	3	.290 (7.37)	WM2734-ND	.91	7.99	53.24	212.95	353.50	22-12-2031
	4	.390 (9.91)	WM2735-ND	1.13	10.00	66.65	266.59	442.54	22-12-2041
	5	.490 (12.45)	WM2736-ND	1.39	12.25	81.67	326.69	542.31	22-12-2051
	6	.590 (14.99)	WM2737-ND	1.65	14.57	97.12	388.49	644.89	22-12-2061
	7	.690 (17.53)	WM2738-ND	1.91	16.82	112.15	448.59	744.66	22-12-2071
	8	.790 (20.07)	WM2739-ND	2.17	19.12	127.47	509.86	846.37	22-12-2081
	9	.890 (22.61)	WM2740-ND	2.43	21.40	142.65	570.60	947.20	22-12-2091
	10	.990 (25.15)	WM2741-ND	2.67	23.59	157.28	629.11	1044.32	22-12-2101
	11	1.090 (27.69)	WM2742-ND	2.93	25.84	172.28	689.11	1143.92	22-12-2111
	12	1.190 (30.23)	WM2743-ND	3.13	27.63	184.20	736.81	1223.10	22-12-2121
3	2	.200 (5.08)	WM2700-ND	.68	6.04	40.28	161.12	267.46	22-11-2022
	3	.300 (7.62)	WM2701-ND	1.05	9.24	61.59	246.34	408.92	22-11-2032
	4	.400 (10.16)	WM2702-ND	1.08	9.49	63.28	253.13	420.20	22-11-2042
	5	.500 (12.70)	WM2703-ND	1.48	13.06	87.08	348.32	578.21	22-11-2052
	6	.600 (15.24)	WM2704-ND	1.62	14.32	95.45	381.81	633.80	22-11-2062
	7	.700 (17.78)	WM2705-ND	1.87	16.51	110.06	440.22	730.77	22-11-2072
	8	.800 (20.32)	WM2706-ND	1.95	17.20	114.69	458.77	761.56	22-11-2082
	9	.900 (22.86)	WM2707-ND	2.18	19.27	128.47	513.89	853.06	22-11-2092
	10	1.000 (25.40)	WM2708-ND	2.41	21.27	141.83	567.31	941.73	22-11-2102
	11	1.100 (27.94)	WM2709-ND	2.65	23.34	155.61	622.43	1033.23	22-11-2112
	12	1.200 (30.48)	WM2710-ND	2.87	25.35	168.99	675.96	1122.09	22-11-2122
4	2	.200 (5.08)	WM2711-ND	1.16	10.24	68.29	273.16	453.45	22-12-2024
	3	.300 (7.62)	WM2712-ND	1.46	12.87	85.81	343.23	569.76	22-12-2034
	4	.400 (10.16)	WM2713-ND	1.71	15.07	100.49	401.95	667.24	22-12-2044
	5	.500 (12.70)	WM2714-ND	1.87	16.51	110.06	440.22	730.77	22-12-2054
	6	.600 (15.24)	WM2715-ND	2.03	17.89	119.28	477.11	792.00	22-12-2064
	7	.700 (17.78)	WM2716-ND	2.20	19.43	129.53	518.13	860.10	22-12-2074
	8	.800 (20.32)	WM2717-ND	2.29	20.22	134.78	539.12	894.94	22-12-2084
	9	.900 (22.86)	WM2718-ND	2.56	22.63	150.87	603.46	1001.74	22-12-2094
	10	1.000 (25.40)	WM2719-ND	2.84	25.03	166.90	667.59	1108.20	22-12-2104
	11	1.100 (27.94)	WM2720-ND	3.11	27.46	183.09	732.35	1215.70	22-12-2114
	12	1.200 (30.48)	WM2721-ND	3.39	29.90	199.33	797.33	1323.57	22-12-2124
.100” (2.54mm) Center Crimp Terminal Housing (Contacts Sold Separately Below) With Locking Ramp and Polarizing Ribs									
5	2	.220 (5.59)	WM2000-ND	.25	2.22	14.81	59.25	98.36	22-01-3027
	3	.320 (8.13)	WM2001-ND	.32	2.78	18.55	74.20	123.17	22-01-3037
	4	.420 (10.67)	WM2002-ND	.39	3.41	22.74	90.95	150.98	22-01-3047
	5	.520 (13.21)	WM2003-ND	.46	4.04	26.93	107.70	178.78	22-01-3057
	6	.620 (15.75)	WM2004-ND	.53	4.66	31.09	124.34	206.40	22-01-3067
	7	.720 (18.29)	WM2005-ND	.60	5.29	35.27	141.09	234.21	22-01-3077
	8	.820 (20.83)	WM2006-ND	.68	6.02	40.12	160.48	266.40	22-01-3087
	9	.920 (23.37)	WM2007-ND	.73	6.48	43.22	172.89	287.00	22-01-3097
	10	1.020 (25.91)	WM2008-ND	.81	7.17	47.83	191.33	317.61	22-01-3107
	11	1.120 (28.45)	WM2009-ND	.88	7.74	51.60	206.38	342.59	22-01-3117
	12	1.220 (30.99)	WM2010-ND	.94	8.30	55.31	221.22	367.23	22-01-3127
With Locking Ramp									
5	2	.220 (5.59)	WM2011-ND	.23	2.03	13.54	54.17	89.92	22-01-2027
	3	.320 (8.13)	WM2012-ND	.29	2.60	17.31	69.22	114.91	22-01-2037
	4	.420 (10.67)	WM2013-ND	.35	3.10	20.67	82.68	137.25	22-01-2047
	5	.520 (13.21)	WM2014-ND	.41	3.66	24.38	97.52	161.88	22-01-2057
	6	.620 (15.75)	WM2015-ND	.47	4.16	27.75	110.98	184.23	22-01-2067
	7	.720 (18.29)	WM2016-ND	.54	4.77	31.83	127.31	211.33	22-01-2077
	8	.820 (20.83)	WM2017-ND	.60	5.29	35.27	141.09	234.21	22-01-2087
	9	.920 (23.37)	WM2018-ND	.66	5.80	38.64	154.55	256.55	22-01-2097
	10	1.020 (25.91)	WM2019-ND	.73	6.40	42.69	170.77	283.48	22-01-2107
	11	1.120 (28.45)	WM2020-ND	.78	6.90	46.01	184.02	305.47	22-01-2117
	12	1.220 (30.99)	WM2021-ND	.85	7.46	49.74	198.96	330.27	22-01-2127
Polarizing Key for .100” Housings			WM2400-ND		1.91/10	12.72/100	50.88/500		15-04-9209
Polarizing Peg for .100” Housings			WM2401-ND		1.91/10	12.72/100	50.88/500		15-04-9210

Crimp Terminals For .100” (2.54mm) Center Housings

Material: Brass, Plating: 200-300µ inch Hot-Tin Dip tin plating.

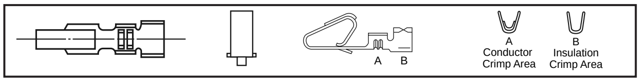

Description	Wire Size	Insulation Dia. (Inch)	Finish	Digi-Key Part No.	Pricing 10	100	500	Molex Part No.
Crimp Terminals For .100 Housing	22-30	.062 Max.	Selective Gold	WM2312-ND	2.80	22.39	93.28	08-55-0102
				WM2312CT-ND⁎	—	22.39	93.28	08-55-0101
				WM2312TR-ND†		690.00/10,000		08-55-0101
	22-30	.062 Max.	Gold	WM1129-ND	5.73	45.86	191.06	08-56-0110
				WM1129CT-ND⁎	—	45.86	191.06	08-56-0109
				WM1129TR-ND†		2550.00/10,000		08-56-0109
	22-30	.062 Max.	Tin	WM1114-ND	.74	5.88	24.51	08-50-0114
				WM1114CT-ND⁎	—	5.88	24.51	08-50-0113
				WM1114TR-ND†		250.00/10,000		
Universal Crimp Tool (Molex)				WM9999-ND		50.75/1		63811-1000
Production Tool (Molex)				WM9915-ND		214.65/1		11-01-0185
Extraction Tool (Molex)				WM9927-ND		10.15/1		11-03-0022
Manual Wire Stripper (Molex)				WM9969-ND		95.16/1		63817-0000

⁎CT = Cut Tape. †TR = Tape and Reel.

.100” (2.54mm) High Pressure Terminal Housings

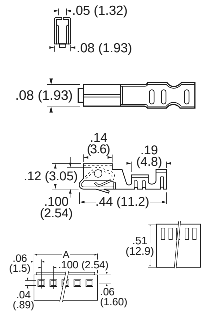

- Standard with locking ramp
- 94V-0 material
- Mates with .025” (0.64mm) Pins
- Up to 425 grams normal force
- Multiple contacting points
- Patented double cantilever with box shroud
- Accepts #22 to 30 AWG wire, .062” insulation dia.

Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
1	.120 (3.05)	WM2600-ND	.29	2.42	17.31	10-11-2013
2	.220 (5.59)	WM2601-ND	.24	2.09	13.97	10-11-2023
3	.320 (8.13)	WM2602-ND	.30	2.48	17.73	10-11-2033
4	.420 (10.67)	WM2603-ND	.37	3.29	21.92	10-11-2043
5	.520 (13.21)	WM2604-ND	.44	3.85	25.68	10-11-2053
6	.620 (15.75)	WM2605-ND	.50	4.41	29.42	10-11-2063
7	.720 (18.29)	WM2606-ND	.56	4.98	33.23	10-11-2073
8	.820 (20.83)	WM2607-ND	.63	5.55	36.97	10-11-2083
9	.920 (23.37)	WM2608-ND	.69	6.11	40.73	10-11-2093
10	1.020 (25.91)	WM2609-ND	.76	6.73	44.89	10-11-2103
11	1.120 (28.45)	WM2610-ND	.83	7.30	48.66	10-11-2113
12	1.220 (30.99)	WM2611-ND	.89	7.86	52.42	10-11-2123
Crimp Terminal, 22-30, Tin/Copper Plating		WM2612-ND	—	1.96	15.71	08-50-0005

molex Waldom ELECTRONICS

.156” Center Headers

.045” Square Pins

Dimensions
Shown in Inches

The Molex KK® Concept utilizes a double cantilever contact design in mating with P.C. board pins. UL Recognized (File #29179), CSA Recognized (File 19980).
• **Voltage Rating:** 250VAC Maximum • **Current Rating:** Up to 7 Amps (with 18 AWG wire) • **Resistance:** 20mΩ maximum • **Dielectric Withstanding Voltage:** 1500VAC for 60 seconds • **Operating Temperature:** 0°C ~ 75°C • **Storage Temperature:** -40°C ~ 105°C • **Material:** 94V-0

Fig. 1 - Straight Header

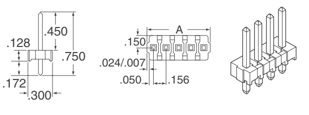

Fig. 2 - Right Angle Header

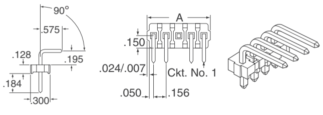

Fig. 3 - Straight-Friction Lock Header for use with Locking Ramp only

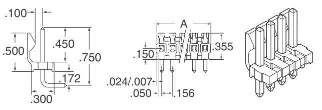

Fig. 4 - Right Angle-Friction Lock Header for use with Locking Ramp only

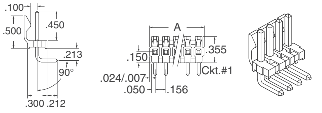

Fig. 5 - Straight Friction Lock Header for use with Locking Ramp & Polarizing Ribs

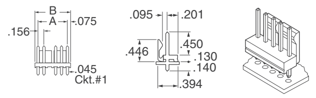

Fig. 6 - Right Angle Friction Lock Header for use with Locking Ramp & Polarizing Ribs

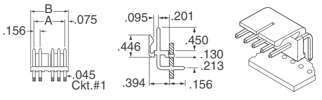

Fig. 7 - Center Crimp Terminal Housing (contacts sold separately)

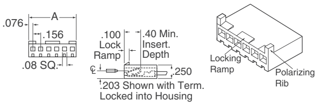

Fig.	Circuits	Dim. (Inch) A	Dim. (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Molex Part No.
.156” Center Headers								
1	2	.267	—	WM4400-ND	.35	3.06	20.43	26-48-1021
	3	.423	—	WM4401-ND	.41	3.66	24.39	26-48-1031
	4	.579	—	WM4402-ND	.48	4.25	28.36	26-48-1041
	5	.735	—	WM4403-ND	.55	4.85	32.32	26-48-1051
	6	.891	—	WM4404-ND	.62	5.44	36.28	26-48-1061
	7	1.047	—	WM4405-ND	.68	6.04	40.25	26-48-1071
	8	1.203	—	WM4406-ND	.75	6.63	44.21	26-48-1081
	9	1.359	—	WM4407-ND	.82	7.23	48.17	26-48-1091
	10	1.515	—	WM4408-ND	.89	7.82	52.14	26-48-1101
	11	1.671	—	WM4409-ND	.95	8.42	56.10	26-48-1111
	12	1.827	—	WM4410-ND	1.02	9.01	60.06	26-48-1121
2	2	.267	—	WM4500-ND	.35	3.10	20.70	26-48-1022
	3	.423	—	WM4501-ND	.42	3.72	24.79	26-48-1032
	4	.579	—	WM4502-ND	.49	4.33	28.89	26-48-1042
	5	.735	—	WM4503-ND	.56	4.95	32.99	26-48-1052
	6	.891	—	WM4504-ND	.63	5.56	37.08	26-48-1062
	7	1.047	—	WM4505-ND	.70	6.18	41.18	26-48-1072
	8	1.203	—	WM4506-ND	.77	6.79	45.28	26-48-1082
	9	1.359	—	WM4507-ND	.84	7.41	49.37	26-48-1092
	10	1.515	—	WM4508-ND	.91	8.02	53.47	26-48-1102
	11	1.671	—	WM4509-ND	.98	8.63	57.57	26-48-1112
	12	1.827	—	WM4510-ND	1.05	9.25	61.66	26-48-1122
3	2	.310	—	WM4600-ND	.37	3.31	22.05	26-48-1025
	3	.466	—	WM4601-ND	.46	4.02	26.82	26-48-1035
	4	.622	—	WM4602-ND	.54	4.74	31.59	26-48-1045
	5	.778	—	WM4603-ND	.62	5.45	36.37	26-48-1055
	6	.934	—	WM4604-ND	.70	6.17	41.14	26-48-1065
	7	1.090	—	WM4605-ND	.78	6.89	45.91	26-48-1075
	8	1.246	—	WM4606-ND	.86	7.60	50.68	26-48-1085
	9	1.402	—	WM4607-ND	.94	8.32	55.46	26-48-1095
	10	1.558	—	WM4608-ND	1.02	9.03	60.23	26-48-1105
	11	1.714	—	WM4609-ND	1.11	9.75	65.00	26-48-1115
	12	1.870	—	WM4610-ND	1.19	10.47	69.78	26-48-1125
4	2	.310	—	WM4700-ND	.40	3.50	23.32	26-48-1026
	3	.466	—	WM4701-ND	.49	4.31	28.73	26-48-1036
	4	.622	—	WM4702-ND	.58	5.12	34.14	26-48-1046
	5	.778	—	WM4703-ND	.67	5.93	39.55	26-48-1056
	6	.934	—	WM4704-ND	.76	6.74	44.96	26-48-1066
	7	1.090	—	WM4705-ND	.86	7.55	50.37	26-48-1076
	8	1.246	—	WM4706-ND	.95	8.37	55.78	26-48-1086
	9	1.402	—	WM4707-ND	1.04	9.18	61.19	26-48-1096
	10	1.558	—	WM4708-ND	1.13	9.99	66.60	26-48-1106
	11	1.714	—	WM4709-ND	1.22	10.80	72.00	26-48-1116
	12	1.870	—	WM4710-ND	1.32	11.61	77.41	26-48-1126
5	2	.156	.306	WM4620-ND	.31	2.73	18.18	26-60-4020
	3	.312	.462	WM4621-ND	.41	3.60	24.01	26-60-4030
	4	.468	.618	WM4622-ND	.51	4.48	29.87	26-60-4040
	5	.624	.774	WM4623-ND	.61	5.36	35.72	26-60-4050
	6	.780	.930	WM4624-ND	.71	6.23	41.55	26-60-4060
	7	.936	1.086	WM4625-ND	.81	7.11	47.41	26-60-4070
	8	1.092	1.242	WM4626-ND	.91	7.99	53.24	26-60-4080
	9	1.248	1.398	WM4627-ND	1.01	8.87	59.15	26-60-4090
	10	1.404	1.554	WM4628-ND	1.10	9.75	64.98	26-60-4100
	11	1.560	1.710	WM4629-ND	1.20	10.62	70.81	26-60-4110
	12	1.716	1.866	WM4630-ND	1.30	11.50	76.64	26-60-4120
6	2	.156	.306	WM4640-ND	.32	2.85	19.00	26-60-5020
	3	.312	.462	WM4641-ND	.43	3.78	25.23	26-60-5030
	4	.468	.618	WM4642-ND	.54	4.73	31.54	26-60-5040
	5	.624	.774	WM4643-ND	.64	5.67	37.79	26-60-5050
	6	.780	.930	WM4644-ND	.83	7.30	48.66	26-60-5060
	7	.936	1.086	WM4645-ND	.86	7.55	50.32	26-60-5070
	8	1.092	1.242	WM4646-ND	.96	8.49	56.61	26-60-5080
	9	1.248	1.398	WM4647-ND	1.07	9.43	62.89	26-60-5090
	10	1.404	1.554	WM4648-ND	1.17	10.37	69.11	26-60-5100
	11	1.560	1.710	WM4649-ND	1.28	11.31	75.39	26-60-5110
	12	1.716	1.866	WM4650-ND	1.39	12.25	81.67	26-60-5120
.156” Center Headers - Gold								
1	2	.267	—	WM5002-ND	.87	7.66	51.05	26-48-2021
	3	.423	—	WM5003-ND	1.20	10.55	70.32	26-48-2031
	4	.579	—	WM5004-ND	1.52	13.44	89.59	26-48-2041
	5	.735	—	WM5005-ND	1.85	16.33	108.86	26-48-2051
	6	.891	—	WM5006-ND	2.18	19.22	128.13	26-48-2061
	7	1.047	—	WM5007-ND	2.51	22.11	147.40	26-48-2071
	8	1.203	—	WM5008-ND	2.83	25.00	166.68	26-48-2081
	9	1.359	—	WM5009-ND	3.16	27.89	185.95	26-48-2091
	10	1.515	—	WM5010-ND	3.49	30.78	205.22	26-48-2101
	11	1.671	—	WM5011-ND	3.82	33.67	224.49	26-48-2111
	12	1.827	—	WM5012-ND	4.14	36.56	243.76	26-48-2121
2	2	.267	—	WM5102-ND	1.01	8.87	59.16	26-48-2022
	3	.423	—	WM5103-ND	1.40	12.37	82.48	26-48-2032
	4	.579	—	WM5104-ND	1.80	15.87	105.81	26-48-2042
	5	.735	—	WM5105-ND	2.20	19.37	129.14	26-48-2052
	6	.891	—	WM5106-ND	2.59	22.87	152.46	26-48-2062
	7	1.047	—	WM5107-ND	2.99	26.37	175.79	26-48-2072
	8	1.203	—	WM5108-ND	3.39	29.87	199.12	26-48-2082
	9	1.359	—	WM5109-ND	3.78	33.37	222.45	26-48-2092
	10	1.515	—	WM5110-ND	4.18	36.87	245.77	26-48-2102
	11	1.671	—	WM5111-ND	4.57	40.36	269.10	26-48-2112
	12	1.827	—	WM5112-ND	4.97	43.86	292.43	26-48-2122
3	2	.310	—	WM5200-ND	.89	7.85	52.36	26-48-2025
	3	.466	—	WM5201-ND	1.23	10.84	72.29	26-48-2035
	4	.622	—	WM5202-ND	1.57	13.83	92.21	26-48-2045
	5	.778	—	WM5203-ND	1.91	16.82	112.14	26-48-2055
	6	.934	—	WM5204-ND	2.25	19.81	132.07	26-48-2065
	7	1.090	—	WM5205-ND	2.58	22.80	152.00	26-48-2075
	8	1.246	—	WM5206-ND	2.92	25.79	171.93	26-48-2085
	9	1.402	—	WM5207-ND	3.26	28.78	191.85	26-48-2095
	10	1.558	—	WM5208-ND	3.60	31.77	211.78	26-48-2105
	11	1.714	—	WM5209-ND	3.94	34.76	231.71	26-48-2115
	12	1.870	—	WM5210-ND	4.28	37.75	251.64	26-48-2125
4	2	.310	—	WM5212-ND	1.13	9.99	66.58	26-48-2026
	3	.466	—	WM5213-ND	1.59	14.04	93.62	26-48-2036
	4	.622	—	WM5214-ND	2.05	18.10	120.66	26-48-2046
	5	.778	—	WM5215-ND	2.51	22.15	147.70	26-48-2056
	6	.934	—	WM5216-ND	2.97	26.21	174.74	26-48-2066
	7	1.090	—	WM5217-ND	3.43	30.27	201.78	26-48-2076
	8	1.246	—	WM5218-ND	3.89	34.32	228.82	26-48-2086
	9	1.402	—	WM5219-ND	4.35	38.38	255.86	26-48-2096
	10	1.558	—	WM5220-ND	4.81	42.43	282.90	26-48-2106
	11	1.714	—	WM5221-ND	5.27	46.49	309.94	26-48-2116
	12	1.870	—	WM5222-ND	5.73	50.55	336.98	26-48-2126
5	2	.156	.306	WM5224-ND	1.03	9.12	60.79	26-61-4020
	3	.312	.462	WM5225-ND	1.49	13.13	87.50	26-61-4030
	4	.468	.618	WM5226-ND	1.89	16.64	110.90	26-61-4040
	5	.624	.774	WM5227-ND	2.34	20.62	137.48	26-61-4050
	6	.780	.930	WM5228-ND	2.78	24.50	163.35	26-61-4060
	7	.936	1.086	WM5229-ND	3.22	28.45	189.69	26-61-4070
	8	1.092	1.242	WM5230-ND	3.65	32.18	214.52	26-61-4080
	9	1.248	1.398	WM5231-ND	4.09	36.06	240.41	26-61-4090
	10	1.404	1.554	WM5232-ND	4.53	40.01	266.72	26-61-4100
	11	1.560	1.710	WM5233-ND	4.97	43.90	292.64	26-61-4110
	12	1.716	1.866	WM5234-ND	5.43	47.94	319.62	26-61-4120
6	2	.156	.306	WM5235-ND	1.18	10.40	69.35	26-61-5020
	3	.312	.462	WM5236-ND	1.69	14.94	99.61	26-61-5030
	4	.468	.618	WM5237-ND	2.16	19.08	127.17	26-61-5040
	5	.624	.774	WM5238-ND	2.67	23.52	156.83	26-61-5050
	6	.780	.930	WM5239-ND	3.19	28.11	187.38	26-61-5060
	7	.936	1.086	WM5240-ND	3.70	32.65	217.65	26-61-5070
	8	1.092	1.242	WM5241-ND	4.20	37.09	247.30	26-61-5080
	9	1.248	1.398	WM5242-ND	4.71	41.58	277.19	26-61-5090
	10	1.404	1.554	WM5243-ND	5.23	46.12	307.48	26-61-5100
	11	1.560	1.710	WM5244-ND	5.73	50.54	336.92	26-61-5110
	12	1.716	1.866	WM5245-ND	6.24	55.05	366.97	26-61-5120
.156” Center Crimp Terminal Housing (Contacts Sold Separately Below) w/Locking Ramp – 94V-2 Nylon								
7	2	.310	—	WM2100-ND	.25	2.22	14.81	09-50-3021
	3	.460	—	WM2101-ND	.32	2.85	19.00	09-50-3031
	4	.620	—	WM2102-ND	.39	3.48	23.19	09-50-3041
	5	.780	—	WM2103-ND	.46	4.10	27.35	09-50-3051
	6	.930	—	WM2104-ND	.54	4.73	31.54	09-50-3061
	7	1.090	—	WM2105-ND	.61	5.36	35.72	09-50-3071
	8	1.240	—	WM2106-ND	.68	5.98	39.88	09-50-3081
	9	1.400	—	WM2107-ND	.75	6.61	44.10	09-50-3091
	10	1.560	—	WM2108-ND	.84	7.44	49.58	09-50-3101
	11	1.710	—	WM2109-ND	.89	7.86	52.42	09-50-3111
	12	1.870	—	WM2110-ND	.99	8.69	57.96	09-50-3121
With Locking Ramp and Polarizing Ribs – 94V-0 Polyester								
7	2	.340	—	WM2111-ND	.27	2.41	16.09	09-50-8023
	3	.500	—	WM2112-ND	.36	3.16	21.10	09-50-8033
	4	.650	—	WM2113-ND	.44	3.85	25.68	09-50-8043
	5	.810	—	WM2114-ND	.52	4.60	30.69	09-50-8053
	6	.970	—	WM2115-ND	.60	5.29	35.27	09-50-8063
	7	1.120	—	WM2116-ND	.68	6.04	40.28	09-50-8073
	8	1.280	—	WM2117-ND	.76	6.67	44.47	09-50-8083
	9	1.430	—	WM2118-ND	.84	7.42	49.48	09-50-8093
	10	1.600	—	WM2119-ND	.92	8.12	54.11	09-50-8103
	11	1.750	—	WM2120-ND	1.01	8.87	59.15	09-50-8113
	12	1.900	—	WM2121-ND	1.09	9.62	64.16	09-05-8123
With Locking Ramp – 94V-0 Polyester								
7	2	.340	—	WM2122-ND	.26	2.28	15.21	09-50-8021
	3	.500	—	WM2123-ND	.34	3.03	20.22	09-50-8031
	4	.650	—	WM2124-ND	.41	3.66	24.38	09-50-8041
	5	.810	—	WM2125-ND	.49	4.35	29.02	09-50-8051
	6	.970	—	WM2126-ND	.56	4.98	33.23	09-50-8061
	7	1.120	—	WM2127-ND	.65	5.73	38.19	09-50-8071
	8	1.280	—	WM2128-ND	.72	6.36	42.40	09-50-8081
	9	1.430	—	WM2129-ND	.80	7.05	47.01	09-50-8091
	10	1.600	—	WM2130-ND	.87	7.67	51.15	09-50-8101
	11	1.750	—	WM2131-ND	.95	8.37	55.78	09-50-8111
	12	1.900	—	WM2132-ND	1.03	9.05	60.34	09-50-8121
Polarizing Key for .156” Housings				WM2402-ND	.27/1	2.41/10		15-04-0219
Polarizing Peg for .156” Housings				WM2403-ND	.27/1	2.41/10		15-04-0220
Polarizing Key for .156” Friclock Housings				WM2404-ND	.26/1	2.28/10		15-04-0297

Crimp Terminals for .156” Center Housings

Fig. 1

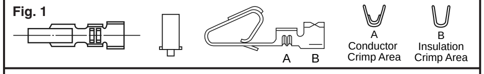

Fig. 2 **Trifurcon**

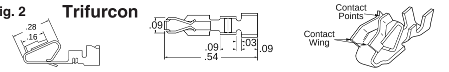

Description	Digi-Key Part No.	Price Each	Molex Part No.
Hand Tool (Waldom)	WM9903-ND	14.55	W-HT-1919
Universal Crimp Tool (Molex)	WM9999-ND	50.75	63811-1000
Extraction Tool (Molex)	WM9928-ND	10.15	11-03-0016
Production Tool (Molex)	WM9926-ND	214.65	63811-2200
Production Tool (Molex)	WM9914-ND	214.65	63811-2300
Manual Wire Stripper (Molex)	WM9969-ND	95.16	63817-0000

Plating: 100µ” tin plating or 20µ” of Selective Gold

Fig.	Material	Wire Size	Insulation Dia. (Inch)	Finish	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Molex Part No.
1	Brass	18-24	.110 Max.	Tin	WM2300-ND*	.70	5.63	23.45	08-50-0106
		18-24	.110	Tin	WM2300CT-ND*‡	—	5.63	23.45	08-50-0105
		18-24	.110	Tin	WM2300TR-ND*◊		175.00/7,000		08-50-0105
	Brass	22-26	.065 Max.	Tin	WM2301-ND†	.56	4.45	18.55	08-50-0108
	Bronze	18-24	.110	Tin	WM2302-ND*	.95	7.57	31.54	08-52-0072
		18-24	.110	Tin	WM2302CT-ND*‡	—	7.57	31.54	08-52-0071
		18-24	.110	Tin	WM2302TR-ND*◊		175.00/7,000		08-52-0071
	Bronze	22-26	.065	Tin	WM2303-ND†	.70	5.57	23.19	08-50-0134
	Brass	18-24	.110	Gold	WM2305-ND*	7.51	60.07	250.29	08-56-0106
	Brass	22-26	.065	Gold	WM2306-ND†	7.51	60.07	250.29	08-56-0108
	Phosphor Bronze	18-24	.110	Gold	WM2304-ND*	7.77	62.17	259.04	08-58-0122
		18-24	.110	Gold	WM2304CT-ND*‡	—	62.17	259.04	08-58-0121
		18-24	.110	Gold	WM2304TR-ND*◊		2359.00/7,000		08-58-0121
	Bronze	22-26	.065	Gold	WM2307-ND†	7.77	62.17	259.04	08-58-0126
2	Phosphor Bronze	18-20	.110	Tin	WM2313-ND*	1.01	8.08	33.65	08-52-0113
		22-26	.065	Tin	WM2314-ND†	1.03	8.21	34.19	08-52-0125
	Brass	18-20	.110	Tin	WM17403-ND*	1.03	8.21	34.19	08-50-0189
					WM17403CT-ND*‡	—	8.21	34.19	08-50-0187
					WM17403TR-ND*◊		238.00/7,000		08-50-0187

*For use with WM9926-ND crimp tool. † For use with WM9914-ND crimp tool. ‡ Cut Tape. ◊ Tape and Reel.

P.C. Board Connectors

.100 (2.54mm) P.C. Board Connectors

94V-O Material, Mates with .025" (.64mm) square pins, end-to-end stackable.

Fig. 1 – Side Entry

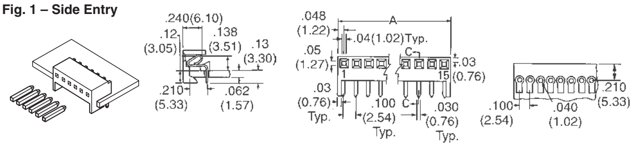

Fig. 2 – Bottom Entry

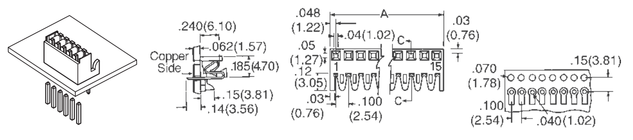

Fig. 3 – Top Entry

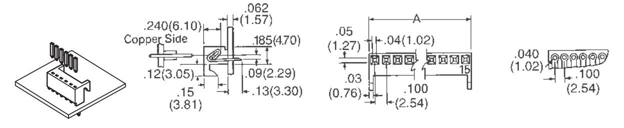

.156 (3.96mm) P.C. Board Connectors

94V-2 Nylon Housing. Mates with .045" (1.14mm) pins.

Fig. 4 – Side Entry

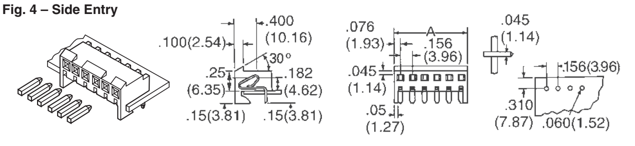

Fig. 5 – Bottom Entry

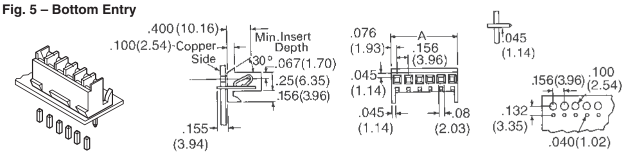

Fig. 6 – Top Entry

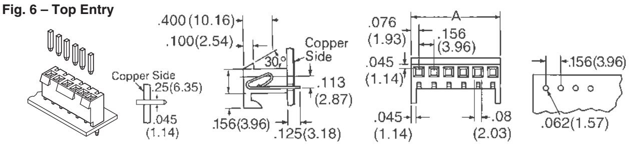

Fig.	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
.100 (2.54mm) P.C. Board Connectors							
1	2	.196 (4.98)	WM3000-ND	.39	3.45	23.00	22-15-2026
	3	.296 (7.52)	WM3001-ND	.42	3.73	24.86	22-15-2036
	4	.396 (10.06)	WM3002-ND	.66	5.86	39.06	22-15-2046
	5	.496 (12.60)	WM3003-ND	.71	6.29	41.92	22-15-2056
	6	.596 (15.14)	WM3004-ND	.86	7.58	50.54	22-15-2066
	7	.696 (17.68)	WM3005-ND	.98	8.67	57.77	22-15-2076
	8	.796 (20.22)	WM3006-ND	1.13	9.98	66.54	22-15-2086
	9	.896 (22.76)	WM3007-ND	1.26	11.12	74.15	22-15-2096
	10	.996 (25.30)	WM3008-ND	1.40	12.39	82.58	22-15-2106
	11	1.096 (27.84)	WM3009-ND	1.63	14.38	95.85	22-15-2116
	12	1.196 (30.38)	WM3010-ND	1.70	15.04	100.28	22-15-2126
2	2	.196 (4.98)	WM3100-ND	.40	3.54	23.59	22-14-2024
	3	.296 (7.52)	WM3101-ND	.42	3.69	24.62	22-14-2034
	4	.396 (10.06)	WM3102-ND	.69	6.11	40.73	22-14-2044
	5	.496 (12.60)	WM3103-ND	.83	7.37	49.11	22-14-2054
	6	.596 (15.14)	WM3104-ND	.98	8.68	57.85	22-14-2064
	7	.696 (17.68)	WM3105-ND	1.13	9.93	66.20	22-14-2074
	8	.796 (20.22)	WM3106-ND	1.19	10.53	70.23	22-14-2084
	9	.896 (22.76)	WM3107-ND	1.42	12.50	83.32	22-14-2094
	10	.996 (25.30)	WM3108-ND	1.47	13.01	86.76	22-14-2104
	11	1.096 (27.84)	WM3109-ND	1.62	14.29	95.24	22-14-2114
	12	1.196 (30.38)	WM3110-ND	1.78	15.72	104.81	22-14-2124
3	2	.196 (4.98)	WM3200-ND	.28	2.50	16.70	22-02-2025
	3	.296 (7.52)	WM3201-ND	.42	3.73	24.86	22-02-2035
	4	.396 (10.06)	WM3202-ND	.57	5.02	33.47	22-02-2045
	5	.496 (12.60)	WM3203-ND	.71	6.24	41.63	22-02-2055
	6	.596 (15.14)	WM3204-ND	.85	7.53	50.19	22-02-2065
	7	.696 (17.68)	WM3205-ND	.99	8.75	58.35	22-02-2075
	8	.796 (20.22)	WM3206-ND	1.12	9.91	66.07	22-02-2085
	9	.896 (22.76)	WM3207-ND	1.28	11.26	75.08	22-02-2095
	10	.996 (25.30)	WM3208-ND	1.42	12.53	83.50	22-02-2105
	11	1.096 (27.84)	WM3209-ND	1.56	13.74	91.61	22-02-2115
	12	1.196 (30.38)	WM3210-ND	1.69	14.95	99.64	22-02-2125
.100 (2.54mm) P.C. Board Connectors - Gold							
1	2	.196 (4.98)	WM3211-ND	.46	4.04	26.93	22-16-2020
	3	.296 (7.52)	WM3212-ND	.53	4.68	31.19	22-16-2030
	4	.396 (10.06)	WM3213-ND	.80	7.05	47.01	22-16-2040
	5	.496 (12.60)	WM3214-ND	.97	8.55	56.98	22-16-2050
	6	.596 (15.14)	WM3215-ND	1.07	9.41	62.73	22-16-2060
	7	.696 (17.68)	WM3216-ND	1.32	11.66	77.73	22-16-2070
	8	.796 (20.22)	WM3217-ND	1.41	12.42	82.81	22-16-2080
	9	.896 (22.76)	WM3218-ND	1.66	14.63	97.55	22-16-2090
	10	.996 (25.30)	WM3219-ND	1.84	16.24	108.28	22-16-2100
	11	1.096 (27.84)	WM3220-ND	2.01	17.70	118.03	22-16-2110
	12	1.196 (30.38)	WM3221-ND	2.10	18.56	123.73	22-16-2120
2	2	.196 (4.98)	WM3222-ND	.48	4.20	28.01	22-17-3022
	3	.296 (7.52)	WM3223-ND	.65	5.73	38.19	22-17-3032
	4	.396 (10.06)	WM3224-ND	.83	7.37	49.11	22-17-3042
	5	.496 (12.60)	WM3225-ND	1.01	8.93	59.52	22-17-3052
	6	.596 (15.14)	WM3226-ND	1.11	9.79	65.27	22-17-3062
	7	.696 (17.68)	WM3227-ND	1.28	11.34	75.58	22-17-3072
	8	.796 (20.22)	WM3228-ND	1.56	13.75	91.69	22-17-3082
	9	.896 (22.76)	WM3229-ND	1.74	15.32	102.16	22-17-3092
	10	.996 (25.30)	WM3230-ND	1.92	16.95	113.00	22-17-3102
	11	1.096 (27.84)	WM3231-ND	2.14	18.93	126.17	22-17-3112
	12	1.196 (30.38)	WM3232-ND	2.28	20.15	134.30	22-17-3122
3	2	.196 (4.98)	WM3233-ND	.43	3.81	25.39	22-18-2021
	3	.296 (7.52)	WM3234-ND	.53	4.67	31.17	22-18-2031
	4	.396 (10.06)	WM3235-ND	.71	6.22	41.47	22-18-2041
	5	.496 (12.60)	WM3236-ND	.97	8.59	57.27	22-18-2051
	6	.596 (15.14)	WM3237-ND	1.06	9.36	62.38	22-18-2061
	7	.696 (17.68)	WM3238-ND	1.23	10.89	72.61	22-18-2071
	8	.796 (20.22)	WM3239-ND	1.41	12.43	82.89	22-18-2081
	9	.896 (22.76)	WM3240-ND	1.57	13.82	92.14	22-18-2091
	10	.996 (25.30)	WM3241-ND	1.76	15.50	103.32	22-18-2101
	11	1.096 (27.84)	WM3242-ND	1.94	17.10	113.98	22-18-2111
	12	1.196 (30.38)	WM3243-ND	2.12	18.74	124.92	22-18-2121

Fig.	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
.156 (3.96mm) P.C. Board Connectors							
4	3	.46 (11.68)	WM3300-ND	.61	5.36	35.72	09-52-3031
	5	.78 (19.81)	WM3302-ND	.86	7.55	50.35	09-52-3051
	7	1.09 (27.69)	WM3304-ND	1.20	10.61	70.76	09-52-3071
	11	1.71 (43.43)	WM3308-ND	1.87	16.47	109.79	09-52-3111
5	4	.62 (15.75)	WM3401-ND	.81	7.11	47.41	09-52-3042
	5	.78 (19.81)	WM3402-ND	.98	8.62	57.45	09-52-3052
	6	.93 (23.62)	WM3403-ND	1.15	10.12	67.47	09-52-3062
	7	1.09 (27.69)	WM3404-ND	1.46	12.87	85.81	09-52-3072
	10	1.56 (39.62)	WM3407-ND	1.77	15.62	104.12	09-52-3102
	12	1.87 (47.50)	WM3409-ND	2.13	18.84	125.58	09-52-3122
6	3	.46 (11.68)	WM3500-ND	.61	5.36	35.72	09-52-3033
	5	.78 (19.81)	WM3502-ND	.78	6.92	46.14	09-52-3053
	7	1.09 (27.69)	WM3504-ND	1.27	11.23	74.84	09-52-3073
	9	1.40 (35.56)	WM3506-ND	1.53	13.54	90.26	09-52-3093
	10	1.56 (39.62)	WM3507-ND	1.68	14.82	98.82	09-52-3103
	11	1.71 (43.43)	WM3508-ND	1.87	16.46	109.76	09-52-3113
	12	1.87 (47.50)	WM3509-ND	2.05	18.06	120.39	09-52-3123
.156 (3.96mm) P.C. Board Connectors — RoHS Compliant							
4	2	.308 (7.82)	WM13299-ND	.33	2.88	19.19	09-48-1024
	3	.46 (11.68)	WM13300-ND	.49	4.32	28.81	09-48-1034
	4	.62 (15.75)	WM13301-ND	.65	5.76	38.40	09-48-1044
	5	.78 (19.81)	WM13302-ND	.82	7.20	47.99	09-48-1054
	6	.93 (23.62)	WM13303-ND	.98	8.64	57.61	09-48-1064
	7	1.09 (27.69)	WM13304-ND	1.31	11.52	76.82	09-48-1074
	8	1.24 (31.50)	WM13305-ND	1.43	12.64	84.30	09-48-1084
	9	1.40 (35.56)	WM13306-ND	1.47	12.96	86.39	09-48-1094
	10	1.56 (39.62)	WM13307-ND	1.63	14.40	96.01	09-48-1104
	11	1.71 (43.43)	WM13308-ND	1.79	15.84	105.58	09-48-1114
	12	1.87 (47.50)	WM13309-ND	1.96	17.28	115.20	09-48-1124
5	2	.308 (7.82)	WM13399-ND	.40	3.50	23.35	09-48-4029
	3	.46 (11.68)	WM13400-ND	.51	4.51	30.05	09-48-4039
	4	.62 (15.75)	WM13401-ND	.69	6.07	40.47	09-48-4049
	5	.78 (19.81)	WM13402-ND	1.36	11.96	79.74	09-48-4059
	6	.93 (23.62)	WM13403-ND	1.03	9.08	60.53	09-48-4069
	7	1.09 (27.69)	WM13404-ND	1.20	10.58	70.52	09-48-4079
	8	1.24 (31.50)	WM13405-ND	2.04	17.97	119.78	09-48-4089
	9	1.40 (35.56)	WM13406-ND	1.54	13.58	90.55	09-48-4099
	10	1.56 (39.62)	WM13407-ND	1.72	15.15	101.02	09-48-4109
	11	1.71 (43.43)	WM13408-ND	1.89	16.66	111.04	09-48-4119
	12	1.87 (47.50)	WM13409-ND	2.06	18.15	121.03	09-48-4129
6	2	.308 (7.82)	WM13499-ND	.33	2.88	19.19	09-48-4028
	3	.46 (11.68)	WM13500-ND	.49	4.32	28.81	09-48-4038
	4	.62 (15.75)	WM13501-ND	.65	5.76	38.40	09-48-4048
	5	.78 (19.81)	WM13502-ND	1.10	9.70	64.69	09-48-4058
	6	.93 (23.62)	WM13503-ND	.98	8.64	57.61	09-48-4068
	7	1.09 (27.69)	WM13504-ND	1.31	11.52	76.82	09-48-4078
	8	1.24 (31.50)	WM13505-ND	1.43	12.64	84.30	09-48-4088
	9	1.40 (35.56)	WM13506-ND	1.47	12.96	86.39	09-48-4098
	10	1.56 (39.62)	WM13507-ND	1.63	14.40	96.01	09-48-4108
	11	1.71 (43.43)	WM13508-ND	1.79	15.84	105.58	09-48-4118
	12	1.87 (47.50)	WM13509-ND	1.96	17.28	115.20	09-48-4128
.156 (3.96mm) P.C. Board Connectors - Gold							
4	4	.62 (15.75)	WM3511-ND	1.09	9.63	64.21	09-62-3041
	6	.93 (23.62)	WM3513-ND	1.66	14.63	97.52	09-62-3061
	7	1.09 (27.69)	WM3514-ND	2.00	17.68	117.87	09-62-3071
	12	1.87 (47.50)	WM3519-ND	3.29	29.07	193.82	09-62-3121
5	7	1.09 (27.69)	WM3524-ND	2.10	18.52	123.44	09-62-3072
	8	1.24 (31.50)	WM3525-ND	2.38	21.02	140.16	09-62-3082

(Continued)

P.C. Board Connectors *(Cont.)*

Fig.	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
6	4	.62 (15.75)	WM3531-ND	1.19	10.50	69.99	09-62-3043
	5	.78 (19.81)	WM3532-ND	1.37	12.12	80.83	09-62-3053
	6	.93 (23.62)	WM3533-ND	1.64	14.50	96.70	09-62-3063
	8	1.24 (31.50)	WM3535-ND	2.28	20.08	133.88	09-62-3083
	11	1.71 (43.43)	WM3538-ND	3.87	34.15	227.64	09-62-3113
.156 (3.96mm) P.C. Board Connectors - Gold — RoHS Compliant							
4	2	.308 (7.82)	WM13540-ND	.51	4.51	30.05	09-48-3025
	3	.46 (11.68)	WM13510-ND	.81	7.14	47.60	09-48-3035
	4	.62 (15.75)	WM13511-ND	1.09	9.58	63.87	09-48-3045
	5	.78 (19.81)	WM13512-ND	1.36	11.96	79.74	09-48-3055
	6	.93 (23.62)	WM13513-ND	1.62	14.34	95.59	09-48-3065
	7	1.09 (27.69)	WM13514-ND	1.89	16.72	111.46	09-48-3075
	8	1.24 (31.50)	WM13515-ND	2.06	18.18	121.19	09-48-3085
	9	1.40 (35.56)	WM13516-ND	2.43	21.48	143.18	09-48-3095
	10	1.56 (39.62)	WM13517-ND	2.70	23.86	159.05	09-48-3105
	11	1.71 (43.43)	WM13518-ND	2.98	26.30	175.33	09-48-3115
	12	1.87 (47.50)	WM13519-ND	3.25	28.68	191.17	09-48-3125
5	2	.308 (7.82)	WM13541-ND	.54	4.73	31.56	09-48-3024
	3	.46 (11.68)	WM13520-ND	.85	7.51	50.09	09-48-3034
	4	.62 (15.75)	WM13521-ND	1.14	10.02	66.78	09-48-3044
	5	.78 (19.81)	WM13522-ND	1.42	12.52	83.48	09-48-3054
	6	.93 (23.62)	WM13523-ND	1.70	15.03	100.17	09-48-3064
	7	1.09 (27.69)	WM13524-ND	1.99	17.53	116.87	09-48-3074
	8	1.24 (31.50)	WM13525-ND	2.27	20.03	133.56	09-48-3084
	9	1.40 (35.56)	WM13526-ND	2.55	22.54	150.26	09-48-3094
	10	1.56 (39.62)	WM13527-ND	2.84	25.04	166.95	09-48-3104
	11	1.71 (43.43)	WM13528-ND	3.12	27.55	183.65	09-48-3114
	12	1.87 (47.50)	WM13529-ND	3.41	30.11	200.77	09-48-3124
6	2	.308 (7.82)	WM13542-ND	.51	4.51	42.07	09-48-3026
	3	.46 (11.68)	WM13530-ND	.81	7.14	47.60	09-48-3036
	4	.62 (15.75)	WM13531-ND	1.09	9.58	63.87	09-48-3046
	5	.78 (19.81)	WM13532-ND	1.36	11.96	79.74	09-48-3056
	6	.93 (23.62)	WM13533-ND	1.62	14.34	95.59	09-48-3066
	7	1.09 (27.69)	WM13534-ND	1.89	16.72	111.46	09-48-3076
	8	1.24 (31.50)	WM13535-ND	2.06	18.18	121.19	09-48-3086
	9	1.40 (35.56)	WM13536-ND	2.43	21.48	143.18	09-48-3096
	10	1.56 (39.62)	WM13537-ND	2.70	23.86	159.05	09-48-3106
	11	1.71 (43.43)	WM13538-ND	2.98	26.30	175.33	09-48-3116
	12	1.87 (47.50)	WM13539-ND	3.25	28.68	191.17	09-48-3126

"Toy Car" Battery Connector

Fig. 1 – Plug

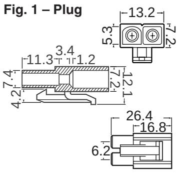

Fig. 2 – Socket

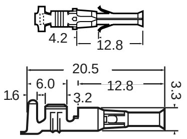

Fig. 3 – Receptacle

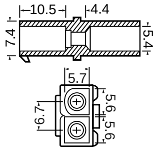

Fig. 4 – Pin

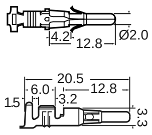

Features:

- 15 Amp current rating per circuit
- 300V voltage rating
- 14-20 AWG wire range
- Nylon 6/6 housing 94V-2
- Industry standard product for radio controlled toy cars

Fig.	Digi-Key Part No.	Pricing 1	10	50	100	Molex Part No.
1	WM2308-ND	.48	4.23	19.74	28.20	351-43-0201
2	WM2311-ND	.11	.97	4.51	6.44	357-28-0201
3	WM2309-ND	.46	4.10	19.13	27.32	351-41-0201
4	WM2310-ND	.12	1.10	5.14	7.34	357-27-0201

WM9999-ND Universal Crimp Tool (Waldom) **$50.75/1**
WM9969-ND Manual Wire Stripper (Waldom) **$95.16/1**

Crimp Terminal Connector Kits

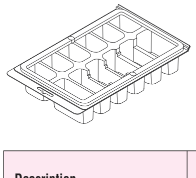

Item	WM9983 Kit Qty.	WM9981 Kit Qty.
Crimp Terminal Housings	36	48
Straight Headers	18	24
Right Angle Headers	18	24
Shunts	10	—
Crimp Terminal (22-30 AWG)	100	—
Crimp Terminal (18-24 AWG)	—	100
Crimping Tool HT-1919	—	1
Crimping Tool 63811-1000	1	1
Extractor Tool HT-1884	1	1

Description	Digi-Key Part No.	Price Each	Molex Part No.
KK Series .100" Connector Kit	WM9983-ND	73.32	MXKK-100
KK Series .156" Connector Kit	WM9981-ND	74.16	MXKK-156

C-Grid® SL™ .100

Material: Pins: .025"square, phosphor bronze • **Insulator**: UL 94V-0 glass filled PCT, black; Vapor phase and infrared process compatible • **Plating:** 15μ" minimum gold or 150μ" minimum tin/lead **Electrical**: • **Current Rating**: 3 amps • **Insulation Resistance:** 1,000MΩ • **Dielectric Strength:** 600VAC r.m.s for 1 minute **Environmental**: • **Operating Temperature:** -40°C ~ 105°C • UL Listed and CSA Certified

Fig. 1 – "G" Version, End-to-End Stackable (Use C-Grid Crimp Terminals sold separately)

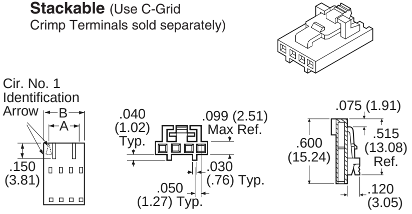

Fig. 2 – "A" Version (Use C-Grid Crimp Terminals sold separately)

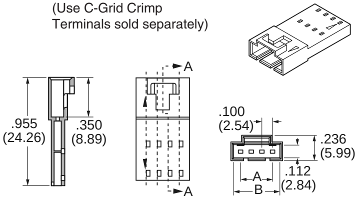

Fig. 3 – Straight Header

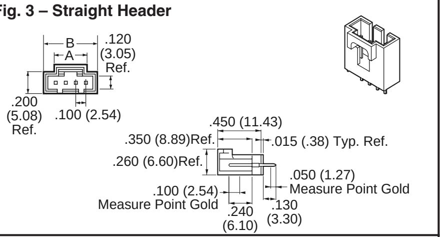

Fig. 4 – Right Angle Header

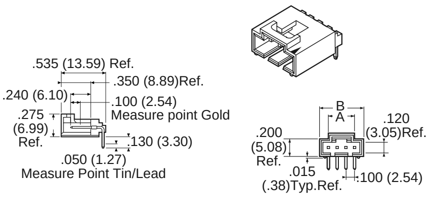

Fig. 5 – Right Angle Header SMT

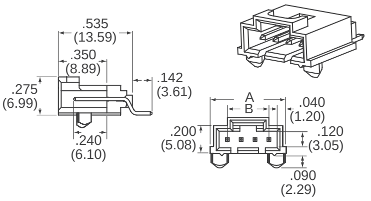

Fig. 6 – Straight Header SMT

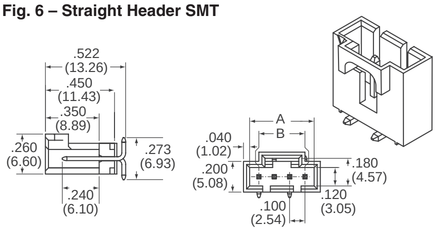

Fig.	Cir-cuits	Dimension – Inch (mm) A	B	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part. No.
Receptacle Housing (Contact Sold Separately)									
1	2	.100 (2.54)	.199 (5.05)	WM2900-ND	.52	4.19	34.90	139.60	50-57-9402
	3	.200 (5.08)	.299 (7.59)	WM2901-ND	.70	5.59	46.56	186.24	50-57-9403
	4	.300 (7.62)	.399 (10.13)	WM2902-ND	.51	4.09	34.05	136.21	50-57-9404
	5	.400 (10.16)	.499 (12.67)	WM2903-ND	.63	5.04	41.98	167.90	50-57-9405
	6	.500 (12.70)	.599 (15.21)	WM2904-ND	.72	5.79	48.23	192.92	50-57-9406
	7	.600 (15.24)	.699 (17.75)	WM2905-ND	.82	6.54	54.51	218.04	50-57-9407
	8	.700 (17.78)	.799 (20.29)	WM2906-ND	.88	7.04	58.67	234.68	50-57-9408
	9	.800 (20.32)	.899 (22.83)	WM2907-ND	.89	7.14	59.52	238.08	50-57-9409
	10	.900 (22.86)	.999 (25.37)	WM2908-ND	.90	7.20	59.97	239.88	50-57-9410
	11	1.00 (25.40)	1.099 (27.91)	WM2909-ND	.95	7.64	63.63	254.51	50-57-9411
	12	1.10 (27.94)	1.199 (30.45)	WM2910-ND	.83	6.63	55.23	220.90	50-57-9412
	13	1.20 (30.48)	1.299 (32.99)	WM2911-ND	1.17	9.34	77.81	311.22	50-57-9413
	14	1.30 (33.02)	1.399 (35.53)	WM2912-ND	1.27	10.14	84.54	338.14	50-57-9414
	15	1.40 (35.56)	1.499 (38.07)	WM2913-ND	1.32	10.60	88.30	353.19	50-57-9415
	16	1.50 (38.10)	1.599 (40.61)	WM2914-ND	1.39	11.14	92.86	371.42	50-57-9416
	17	1.60 (40.64)	1.699 (43.15)	WM2915-ND	1.44	11.55	96.25	384.99	50-57-9417
1	18	1.70 (43.18)	1.799 (45.69)	WM2916-ND	1.52	12.15	101.28	405.13	50-57-9418
	19	1.80 (45.72)	1.899 (48.23)	WM2917-ND	1.86	14.87	123.89	495.55	50-57-9419
	20	1.90 (48.26)	1.999 (50.77)	WM2918-ND	1.93	15.42	128.47	513.89	50-57-9420
	21	2.00 (50.80)	2.099 (53.31)	WM2919-ND	1.98	15.87	132.24	528.94	50-57-9421
	22	2.10 (53.34)	2.199 (55.85)	WM2920-ND	2.04	16.32	136.03	544.10	50-57-9422
	23	2.20 (55.88)	2.299 (58.39)	WM2921-ND	2.10	16.77	139.79	559.15	50-57-9423
	24	2.30 (58.42)	2.399 (60.93)	WM2922-ND	2.17	17.33	144.40	577.59	50-57-9424
	25	2.40 (60.96)	2.499 (63.47)	WM2923-ND	2.23	17.83	148.56	594.24	50-57-9425
Pin Housing (Contact Sold Separately)									
2	2	.100 (2.54)	.220 (5.59)	WM2533-ND	.98	7.84	65.35	261.40	70107-0001
	3	.200 (5.08)	.320 (8.13)	WM2534-ND	.99	7.94	66.20	264.79	70107-0002
	4	.300 (7.62)	.420 (10.67)	WM2535-ND	1.02	8.15	67.89	271.57	70107-0003
	5	.400 (10.16)	.520 (13.21)	WM2536-ND	1.16	9.30	77.46	309.84	70107-0004
	6	.500 (12.70)	.620 (15.75)	WM2537-ND	1.51	12.06	100.49	401.95	70107-0005
	7	.600 (15.24)	.720 (18.29)	WM2538-ND	1.53	12.20	101.68	406.72	70107-0006
	8	.700 (17.78)	.820 (20.83)	WM2539-ND	1.57	12.52	104.36	417.43	70107-0007

(Continued)

C-Grid® SL™ .100 *(Cont.)*

Fig.	Cir-cuits	Dimension – Inch (mm) A	Dimension – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 500	Molex Part. No.
2	9	.800 (20.32)	.920 (23.37)	WM2540-ND	1.59	12.76	106.32	425.27	70107-0008
	10	.900 (22.86)	1.020 (25.91)	WM2541-ND	1.66	13.26	110.53	442.13	70107-0009
15µ" Min. Gold									
3	2	.100 (2.54)	.290 (7.37)	WM4800-ND	.98	7.83	65.27	261.08	70543-0001
	3	.200 (5.08)	.400 (10.17)	WM4801-ND	.97	7.80	64.98	259.91	70543-0002
	4	.300 (7.62)	.500 (12.71)	WM4802-ND	1.05	8.42	70.17	280.69	70543-0003
	5	.400 (10.16)	.600 (15.25)	WM4803-ND	1.21	9.71	80.91	323.62	70543-0004
	6	.500 (12.70)	.700 (17.79)	WM4804-ND	1.23	9.82	81.81	327.22	70543-0005
	7	.600 (15.24)	.800 (20.33)	WM4805-ND	1.51	12.10	100.81	403.22	70543-0006
	8	.700 (17.78)	.900 (22.87)	WM4806-ND	1.62	12.96	108.02	432.06	70543-0007
	9	.800 (20.32)	1.000 (25.41)	WM4807-ND	1.73	13.83	115.22	460.89	70543-0008
	10	.900 (22.86)	1.100 (27.95)	WM4808-ND	1.84	14.69	122.46	489.83	70543-0009
	11	1.00 (25.40)	1.200 (30.49)	WM4809-ND	2.12	16.94	141.14	564.56	70543-0010
	12	1.10 (27.94)	1.300 (33.03)	WM4810-ND	2.24	17.93	149.41	597.63	70543-0011
	13	1.20 (30.48)	1.400 (35.57)	WM4811-ND	2.35	18.83	156.88	627.52	70543-0012
	14	1.30 (33.02)	1.500 (38.11)	WM4812-ND	2.48	19.83	165.26	661.02	70543-0013
	15	1.40 (35.56)	1.600 (40.65)	WM4813-ND	2.60	20.79	173.26	693.03	70543-0014
	16	1.50 (38.10)	1.700 (43.19)	WM4814-ND	2.72	21.76	181.37	725.46	70543-0015
	17	1.60 (40.64)	1.800 (45.73)	WM4815-ND	2.82	22.59	188.28	753.13	70543-0016
	18	1.70 (43.18)	1.900 (48.27)	WM4816-ND	2.94	23.50	195.84	783.34	70543-0017
	19	1.80 (45.72)	2.000 (50.81)	WM4817-ND	2.99	23.95	199.57	798.29	70543-0018
	20	1.90 (48.26)	2.100 (53.35)	WM4818-ND	3.16	25.31	210.89	843.55	70543-0019
	21	2.00 (50.80)	2.200 (55.89)	WM4819-ND	3.31	26.47	220.61	882.45	70543-0020
	22	2.10 (53.34)	2.300 (58.43)	WM4820-ND	3.39	27.13	226.07	904.29	70543-0021
	23	2.20 (55.88)	2.400 (60.97)	WM4821-ND	3.54	28.33	236.06	944.25	70543-0022
	24	2.30 (58.42)	2.500 (63.51)	WM4822-ND	3.64	29.08	242.34	969.37	70543-0023
	25	2.40 (60.96)	2.600 (66.05)	WM4823-ND	3.77	30.19	251.57	1006.26	70543-0024
150µ" Tin/Lead									
3	2	.100 (2.54)	.290 (7.37)	WM4824-ND	.97	7.73	64.42	257.69	70543-0036
	3	.200 (5.08)	.400 (10.17)	WM4825-ND	1.04	8.29	69.06	276.24	70543-0037
	4	.300 (7.62)	.500 (12.71)	WM4826-ND	1.12	8.94	74.47	297.86	70543-0038
	5	.400 (10.16)	.600 (15.25)	WM4827-ND	1.18	9.44	78.65	314.61	70543-0039
	6	.500 (12.70)	.700 (17.79)	WM4828-ND	1.02	8.15	67.95	271.78	70543-0040
	7	.600 (15.24)	.800 (20.33)	WM4829-ND	1.32	10.60	88.33	353.30	70543-0041
	8	.700 (17.78)	.900 (22.87)	WM4830-ND	1.38	11.05	92.09	368.35	70543-0042
	9	.800 (20.32)	1.000 (25.41)	WM4831-ND	1.45	11.60	96.65	386.58	70543-0043
	10	.900 (22.86)	1.100 (27.95)	WM4832-ND	1.53	12.25	102.08	408.31	70543-0044
	11	1.00 (25.40)	1.200 (30.49)	WM4833-ND	1.60	12.77	106.40	425.59	70543-0045
	12	1.10 (27.94)	1.300 (33.03)	WM4834-ND	1.66	13.25	110.43	441.70	70543-0046
15µ" Min. Gold									
4	2	.100 (2.54)	.290 (7.37)	WM4900-ND	.83	6.61	55.09	220.37	70553-0001
	3	.200 (5.08)	.400 (10.17)	WM4901-ND	1.08	8.64	72.03	288.11	70553-0002
	4	.300 (7.62)	.500 (12.71)	WM4902-ND	1.12	8.98	74.86	299.45	70553-0003
	5	.400 (10.16)	.600 (15.25)	WM4903-ND	1.30	10.41	86.74	346.94	70553-0004
	6	.500 (12.70)	.700 (17.79)	WM4904-ND	1.30	10.43	86.89	347.57	70553-0005
	7	.600 (15.24)	.800 (20.33)	WM4905-ND	1.51	12.10	100.81	403.22	70553-0006
	8	.700 (17.78)	.900 (22.87)	WM4906-ND	1.62	12.96	108.02	432.06	70553-0007
	9	.800 (20.32)	1.000 (25.41)	WM4907-ND	1.73	13.83	115.22	460.89	70553-0008
	10	.900 (22.86)	1.100 (27.95)	WM4908-ND	1.84	14.69	122.46	489.83	70553-0009

Fig.	Cir-cuits	Dimension – Inch (mm) A	Dimension – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 500	Molex Part. No.
4	11	1.00 (25.40)	1.200 (30.49)	WM4909-ND	2.12	16.94	141.14	564.56	70553-0010
	12	1.10 (27.94)	1.300 (33.03)	WM4910-ND	2.24	17.93	149.41	597.63	70553-0011
	13	1.20 (30.48)	1.400 (35.57)	WM4911-ND	2.35	18.83	156.88	627.52	70553-0012
	14	1.30 (33.02)	1.500 (38.11)	WM4912-ND	2.48	19.83	165.28	661.12	70553-0013
	15	1.40 (35.56)	1.600 (40.65)	WM4913-ND	2.60	20.79	173.26	693.03	70553-0014
	16	1.50 (38.10)	1.700 (43.19)	WM4914-ND	2.72	21.76	181.37	725.46	70553-0015
	17	1.60 (40.64)	1.800 (45.73)	WM4915-ND	2.82	22.60	188.31	753.24	70553-0016
	18	1.70 (43.18)	1.900 (48.27)	WM4916-ND	2.94	23.50	195.84	783.34	70553-0017
	19	1.80 (45.72)	2.000 (50.81)	WM4917-ND	3.08	24.60	205.01	820.02	70553-0018
	20	1.90 (48.26)	2.100 (53.35)	WM4918-ND	3.16	25.31	210.89	843.55	70553-0019
	21	2.00 (50.80)	2.200 (55.89)	WM4919-ND	3.30	26.44	220.32	881.28	70553-0020
	22	2.10 (53.34)	2.300 (58.43)	WM4920-ND	3.39	27.13	226.07	904.29	70553-0021
	23	2.20 (55.88)	2.400 (60.97)	WM4921-ND	3.54	28.33	236.09	944.35	70553-0022
	24	2.30 (58.42)	2.500 (63.51)	WM4922-ND	3.64	29.08	242.37	969.48	70553-0023
	25	2.40 (60.96)	2.600 (66.05)	WM4923-ND	3.77	30.19	251.57	1006.26	70553-0024
150µ" Tin/Lead									
4	2	.100 (2.54)	.290 (7.37)	WM4924-ND	.97	7.73	64.42	257.69	70553-0036
	3	.200 (5.08)	.400 (10.17)	WM4925-ND	1.04	8.29	69.06	276.24	70553-0037
	4	.300 (7.62)	.500 (12.71)	WM4926-ND	.94	7.53	62.75	251.01	70553-0038
	5	.400 (10.16)	.600 (15.25)	WM4927-ND	1.18	9.44	78.65	314.61	70553-0039
	6	.500 (12.70)	.700 (17.79)	WM4928-ND	1.25	10.03	83.61	334.43	70553-0040
	7	.600 (15.24)	.800 (20.33)	WM4929-ND	1.32	10.60	88.33	353.30	70553-0041
	8	.700 (17.78)	.900 (22.87)	WM4930-ND	1.38	11.05	92.09	368.35	70553-0042
	9	.800 (20.32)	1.00 (25.41)	WM4931-ND	1.45	11.57	96.43	385.73	70553-0043
	10	.900 (22.86)	1.10 (27.95)	WM4932-ND	1.53	12.25	102.08	408.31	70553-0044
	11	1.00 (25.40)	1.20 (30.49)	WM4933-ND	1.60	12.77	106.40	425.59	70553-0045
	12	1.10 (27.94)	1.30 (33.03)	WM4934-ND	1.66	13.25	110.43	441.70	70553-0046
15µ" Gold									
5	2	.340 (8.63)	.100 (2.54)	WM1340-ND	2.96	23.65	197.11	788.43	15-91-2025
	3	.450 (11.43)	.200 (5.08)	WM1341-ND	3.01	24.06	200.47	801.89	15-91-2035
	4	.550 (13.97)	.300 (7.62)	WM1342-ND	3.09	24.71	205.93	823.73	15-91-2045
	5	.650 (16.51)	.400 (10.16)	WM1343-ND	3.16	25.26	210.52	842.06	15-91-2055
	6	.750 (19.05)	.500 (12.70)	WM1344-ND	3.21	25.71	214.28	857.12	15-91-2065
	7	.850 (21.59)	.600 (15.24)	WM1345-ND	3.28	26.21	218.44	873.76	15-91-2075
	8	.950 (24.13)	.700 (17.78)	WM1346-ND	3.33	26.66	222.20	888.81	15-91-2085
	9	1.050 (26.67)	.800 (20.32)	WM1347-ND	3.39	27.12	225.99	903.97	15-91-2095
	10	1.150 (29.21)	.900 (22.86)	WM1348-ND	3.47	27.77	231.45	925.80	15-91-2105
	11	1.250 (31.75)	1.00 (25.40)	WM1349-ND	4.07	32.55	271.26	1085.02	15-91-2115
	12	1.350 (34.29)	1.10 (27.94)	WM1350-ND	4.71	37.67	313.92	1255.68	15-91-2125
15µ" Gold									
6	3	.320 (8.13)	.200 (5.08)	WM7203-ND	2.45	19.61	163.40	653.60	74099-1003
	4	.420 (10.67)	.300 (7.62)	WM7204-ND	3.03	24.21	201.72	806.87	74099-1004
	5	.520 (13.21)	.400 (10.16)	WM7205-ND	3.61	28.86	240.52	962.06	74099-1005
	6	.620 (15.75)	.500 (12.70)	WM7206-ND	4.20	33.61	280.11	1120.42	74099-1006
	7	.720 (18.29)	.600 (15.24)	WM7207-ND	4.77	38.16	318.03	1272.11	74099-1007
	8	.820 (20.83)	.700 (17.78)	WM7208-ND	5.34	42.71	355.95	1423.79	74099-1008
	9	.920 (23.37)	.800 (20.32)	WM7209-ND	5.95	47.62	396.81	1587.24	74099-1009
	10	1.020 (25.91)	.900 (22.86)	WM7210-ND	6.56	52.52	437.65	1750.59	74099-1010
	11	1.120 (28.45)	1.000 (25.40)	WM7211-ND	7.09	56.72	472.66	1890.62	74099-1011
	12	1.220 (30.99)	1.100 (27.94)	WM7212-ND	7.68	61.47	512.25	2048.98	74099-1012

C-Grid® Crimp Connector Housings

Fig. 1 – "A" Version

"A" Version, Non-Polarized, End-to-End & Side-by-Side Stackable. Mates with Unshrouded Headers.

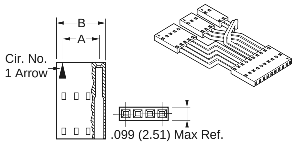

Fig. 2 – "A" Version

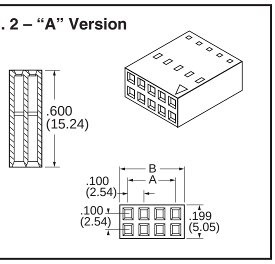

Fig.	Cir-cuits	Dimension – Inch (mm) A	Dimension – Inch (mm) B	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 500	Molex Part. No.
1	2	.100 (2.54)	.199 (5.05)	WM2800-ND	.64	5.60	37.37	149.46	50-57-9002
	3	.200 (5.08)	.299 (7.59)	WM2801-ND	.79	6.98	46.56	186.24	50-57-9003
	4	.300 (7.62)	.399 (10.13)	WM2802-ND	.82	7.23	48.23	192.92	50-57-9004
	5	.400 (10.16)	.499 (12.67)	WM2803-ND	.86	7.57	50.48	201.93	50-57-9005
	6	.500 (12.70)	.599 (15.21)	WM2804-ND	.90	7.93	52.84	211.36	50-57-9006
	7	.600 (15.24)	.699 (17.75)	WM2805-ND	.95	8.37	55.78	223.13	50-57-9007
	8	.700 (17.78)	.799 (20.29)	WM2806-ND	1.00	8.80	58.67	234.68	50-57-9008
	9	.800 (20.32)	.899 (22.83)	WM2807-ND	1.06	9.37	62.46	249.84	50-57-9009
	10	.900 (22.86)	.999 (25.37)	WM2808-ND	1.11	9.80	65.35	261.40	50-57-9010
2	4	.100 (2.54)	.199 (5.05)	WM2519-ND	2.18	19.21	128.05	512.19	22-55-2041
	6	.200 (5.08)	.299 (7.59)	WM2520-ND	1.89	16.64	110.90	443.61	22-55-2061
	8	.300 (7.62)	.399 (10.13)	WM2521-ND	2.38	21.02	140.16	560.63	22-55-2081
	10	.400 (10.16)	.499 (12.67)	WM2522-ND	2.49	21.96	146.39	585.54	22-55-2101
	12	.500 (12.70)	.599 (15.21)	WM2523-ND	2.59	22.84	152.27	609.08	22-55-2121
	14	.600 (15.24)	.699 (17.75)	WM2524-ND	2.69	23.78	158.52	634.09	22-55-2141
	16	.700 (17.78)	.799 (20.29)	WM2525-ND	2.79	24.60	163.98	655.93	22-55-2161
	18	.800 (20.32)	.899 (22.83)	WM2526-ND	2.89	25.47	169.81	679.25	22-55-2181
	20	.900 (22.86)	.999 (25.37)	WM2527-ND	2.99	26.42	176.12	704.48	22-55-2201
	22	1.000 (25.40)	1.099 (27.91)	WM2528-ND	3.09	27.29	181.95	727.80	22-55-2221
	24	1.100 (27.95)	1.199 (30.45)	WM2529-ND	3.20	28.23	188.23	752.92	22-55-2241
	30	1.400 (35.56)	1.499 (38.07)	WM2530-ND	3.47	30.61	204.08	816.31	22-55-2301
	40	1.900 (48.26)	1.999 (50.77)	WM2531-ND	4.01	35.37	235.82	943.29	22-55-2401
	50	2.400 (60.96)	2.499 (63.47)	WM2532-ND	4.51	39.83	265.50	1062.01	22-55-2501

C-Grid® Box Crimp Terminals

Terminal Material:
Phosphor Bronze.

Current Rating:
3.0 Amps (24 AWG)
30°C Rise Over Ambient.

UL Listed and CSA Certified.

Fig. 1

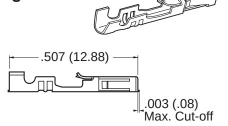

Fig. 2

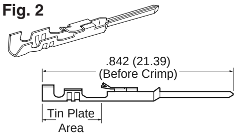

Fig.	Wire Range	Insul. Dia. Inch (mm)	Plating	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Pricing 1,000	Molex Part No.
1	22-24	.064 (1.63)	Tin‡	WM2510-ND	.99	8.22	32.86	54.55	16-02-0102
				WM2510CT-ND∞	—	8.22	32.86	54.55	16-02-0086
				WM2510TR-ND◊		820.00/20,000			16-02-0086
	24-30	.060 (1.52)	Tin‡	WM2511-ND	.99	8.22	32.86	54.55	16-02-0096
	22-24	.064 (1.63)	Gold†	WM2512-ND	1.48	12.30	49.18	81.64	16-02-0103
				WM2512CT-ND∞	—	12.30	49.18	81.64	16-02-0087
				WM2512TR-ND◊		1320.00/20,000			16-02-0087
	24-30	.060 (1.52)	Gold†	WM2513-ND	1.48	12.30	49.18	81.64	16-02-0097
	22-24	.064 (1.63)	Tin‡	WM2556-ND*	1.31	10.95	43.78	72.67	16-02-1114
	24-30	.060 (1.52)	Tin‡	WM2557-ND*	1.31	10.95	43.78	72.67	16-02-1116
	22-24	.064 (1.63)	Gold†	WM2554-ND*	2.08	17.33	69.32	115.07	16-02-1125
	24-30	.060 (1.52)	Gold†	WM2555-ND*	2.08	17.33	69.32	115.07	16-02-1109
2	22-24	.064 (1.63)	Tin‡	WM2517-ND	.99	8.22	32.86	54.55	16-02-0114
				WM2517CT-ND∞	—	8.22	32.86	54.55	16-02-0107
				WM2517TR-ND◊		820.00/20,000			16-02-0107
	24-30	.060 (1.52)	Tin‡	WM2518-ND	.99	8.22	32.86	54.55	16-02-0108
	22-24	.064 (1.63)	Gold†	WM2515-ND	1.59	13.22	52.89	87.80	16-02-0115
				WM2515CT-ND∞	—	13.22	52.89	87.80	16-02-0081
				WM2515TR-ND◊		1260.00/20,000			16-02-0081
	24-30	.060 (1.52)	Gold†	WM2516-ND	1.57	13.12	52.47	87.10	16-02-0109
Universal Crimp Tool (Molex)				WM9999-ND		50.75/1			63811-1000
C-Grid Hand Crimper 22-24 & 32-36 AWG				WM9917-ND		214.65/1			11-01-0208
C-Grid Hand Crimper 24 - 30 AWG				WM9919-ND		214.65/1			11-01-0209
Insertion Tool				WM9911-ND		10.23/1			11-02-0022
Manual Wire Stripper (Molex)				WM9969-ND		95.16/1			63817-0000

* High pressure type for low pin count. ‡150µ" tin/lead over 50µ" nickel overall. †15µ" minimum gold in select area over 50µ" minimum nickel overall with 75µ" minimum tin/lead in select area.
∞ CT = Cut Tape. ◊ TR = Tape and Reel.

C-Grid® III™ 2.54mm (.100") Pitch

Modular Crimp Connector Housing

SPECIFICATIONS:

ELECTRICAL: • Voltage: 350V • Insulation Resistance: 1,000 MΩ minimum • Current Rating: 3.0A • Contact Resistance: 20mΩ maximum

PHYSICAL: • Housing: Black Polyphenylene Oxide • UL94V-1 • Operating Temperature: -55°C ~ 105°C • Polarization: *Use 2 button version only with single row adapter

***C-Grid III does not mate to C-Grid**

Fig. 1 – Single Row
2 Button*

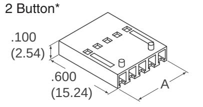

Fig. 2 – Single Row

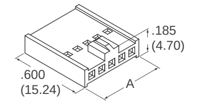

Fig. 3 – Dual Row

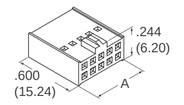

Fig. 4 – Dual Row

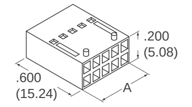

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing				Molex Part No.
				1	10	100	500	
1	2	.200 (5.08)	WM8000-ND	.24	2.15	14.31	57.24	90123-0102
	3	.300 (7.62)	WM8001-ND	.35	3.13	20.86	83.42	90123-0103
	4	.400 (10.16)	WM8002-ND	.47	4.11	27.38	109.50	90123-0104
	5	.500 (12.70)	WM8003-ND	.58	5.08	33.89	135.57	90123-0105
	6	.600 (15.24)	WM8004-ND	.68	6.00	39.99	159.95	90123-0106
	7	.700 (17.78)	WM8005-ND	.42	3.68	24.51	98.05	90123-0107
	8	.800 (20.32)	WM8006-ND	.90	7.97	53.16	212.64	90123-0108
	9	.900 (22.86)	WM8007-ND	.94	8.27	55.12	220.48	90123-0109
	10	1.000 (25.40)	WM8008-ND	1.07	9.43	62.86	251.43	90123-0110
	12	1.200 (30.38)	WM8009-ND	1.26	11.09	73.91	295.63	90123-0112
	13	1.300 (33.02)	WM8010-ND	1.38	12.20	81.36	325.42	90123-0113
	15	1.500 (38.10)	WM8011-ND	1.56	13.78	91.85	367.40	90123-0115
	18	1.800 (45.72)	WM8012-ND	1.90	16.79	111.94	447.74	90123-0118
	19	1.900 (48.26)	WM8013-ND	2.01	17.71	118.06	472.23	90123-0119
	20	2.000 (50.80)	WM8014-ND	1.95	17.22	114.80	459.19	90123-0120
	24	2.400 (60.96)	WM8015-ND	2.50	22.04	146.92	587.66	90123-0124
	25	2.500 (63.50)	WM8016-ND	2.60	22.96	153.07	612.26	90123-0125
2	2	.242 (6.14)	WM8017-ND	.26	2.27	15.13	60.53	90156-0142
	3	.342 (8.68)	WM8018-ND	.33	2.94	19.58	78.33	90156-0143
	4	.442 (11.22)	WM8019-ND	.46	4.04	26.93	107.70	90156-0144
	5	.542 (13.76)	WM8020-ND	.54	4.77	31.83	127.31	90156-0145
	6	.642 (16.30)	WM8021-ND	.65	5.70	37.98	151.90	90156-0146
	7	.742 (18.84)	WM8022-ND	.75	6.61	44.07	176.28	90156-0147
	8	.842 (21.38)	WM8023-ND	.85	7.53	50.22	200.87	90156-0148
	9	.942 (23.92)	WM8024-ND	.94	8.27	55.12	220.48	90156-0149
	10	1.042 (26.46)	WM8025-ND	1.02	9.00	60.02	240.09	90156-0150
	12	1.242 (31.54)	WM8026-ND	1.21	10.65	71.02	284.08	90156-0152
	13	1.342 (34.08)	WM8027-ND	1.30	11.45	76.35	305.39	90156-0153
	14	1.442 (36.62)	WM8028-ND	1.39	12.25	81.65	326.59	90156-0154
	15	1.542 (39.16)	WM8029-ND	1.48	13.04	86.95	347.79	90156-0155
	16	1.642 (41.70)	WM8030-ND	1.65	14.57	97.12	388.49	90156-0156
	18	1.842 (46.78)	WM8031-ND	1.77	15.61	104.09	416.37	90156-0158
	20	2.042 (51.86)	WM8032-ND	1.96	17.26	115.06	460.25	90156-0160
	22	2.242 (56.94)	WM8033-ND	2.12	18.73	124.84	499.37	90156-0162
	25	2.542 (64.56)	WM8034-ND	2.41	21.28	141.88	567.52	90156-0165
3	6	.306 (7.77)	WM8035-ND	.67	5.88	39.17	156.67	90142-0006
	8	.406 (10.31)	WM8036-ND	.89	7.83	52.23	208.93	90142-0008
	10	.506 (12.85)	WM8037-ND	1.10	9.67	64.48	257.90	90142-0010
	12	.606 (15.39)	WM8038-ND	1.28	11.33	75.53	302.10	90142-0012
	14	.706 (17.93)	WM8039-ND	1.37	12.12	80.80	323.19	90142-0014
	16	.806 (20.47)	WM8040-ND	1.69	14.88	99.19	396.76	90142-0016
	18	.906 (23.01)	WM8041-ND	1.75	15.43	102.85	411.39	90142-0018
	20	1.006 (25.55)	WM8042-ND	1.82	16.10	107.35	429.41	90142-0020
	22	1.106 (28.09)	WM8043-ND	1.89	16.65	111.01	444.03	90142-0022
	24	1.206 (30.63)	WM8044-ND	2.30	20.27	135.12	540.49	90142-0024
	26	1.306 (33.17)	WM8045-ND	2.36	20.81	138.76	555.02	90142-0026
	30	1.506 (38.25)	WM8046-ND	2.69	23.70	157.97	631.87	90142-0030
	34	1.706 (43.33)	WM8047-ND	3.00	26.45	176.31	705.22	90142-0034
	36	1.806 (45.87)	WM8048-ND	3.17	27.98	186.53	746.13	90142-0036
	38	1.906 (48.41)	WM8049-ND	3.34	29.45	196.34	785.35	90142-0038
	40	2.006 (50.95)	WM8050-ND	3.76	33.18	221.20	884.78	90142-0040
	44	2.206 (56.03)	WM8051-ND	4.18	36.85	245.66	982.62	90142-0044
	50	2.506 (63.65)	WM8052-ND	4.79	42.24	281.59	1126.36	90142-0050
	54	2.706 (68.73)	WM8053-ND	5.00	44.07	293.83	1175.33	90142-0054
	60	3.006 (76.35)	WM8054-ND	5.52	48.73	324.89	1299.56	90142-0060
	64	3.206 (81.43)	WM8055-ND	5.72	50.44	336.29	1345.14	90142-0064
4	4	.200 (5.08)	WM8056-ND	.42	3.67	24.49	97.94	90143-0004
	6	.300 (7.62)	WM8057-ND	.60	5.33	35.54	142.15	90143-0006
	8	.400 (10.16)	WM8058-ND	.80	7.10	47.33	189.32	90143-0008
	10	.500 (12.70)	WM8059-ND	1.00	8.82	58.78	235.11	90143-0010
	12	.600 (15.24)	WM8060-ND	1.17	10.35	69.01	276.02	90143-0012
	14	.700 (17.78)	WM8061-ND	1.36	12.00	79.98	319.91	90143-0014
	16	.800 (20.32)	WM8062-ND	1.54	13.59	90.60	362.41	90143-0016
	18	.900 (22.86)	WM8063-ND	1.82	16.10	107.35	429.41	90143-0018
	20	1.000 (25.40)	WM8064-ND	2.10	18.55	123.68	494.70	90143-0020
	26	1.300 (33.02)	WM8065-ND	2.71	23.87	159.16	636.64	90143-0026
	34	1.700 (43.18)	WM8066-ND	3.08	27.18	181.21	724.83	90143-0034
	36	1.800 (45.72)	WM8067-ND	3.26	28.77	191.83	767.33	90143-0036
	40	2.000 (50.80)	WM8068-ND	3.61	31.83	212.21	848.85	90143-0040
	50	2.500 (63.50)	WM8069-ND	4.51	39.79	265.27	1061.06	90143-0050
	60	3.000 (76.20)	WM8070-ND	5.41	47.75	318.32	1273.27	90143-0060
	64	3.200 (81.28)	WM8071-ND	5.56	49.04	326.93	1307.72	90143-0064

Headers

SPECIFICATIONS:

ELECTRICAL: • Voltage: 350V • Current Rating: 3.0A • Contact Resistance: 20mΩ maximum • Insulation Resistance: 5,000 MΩ minimum

PHYSICAL: • Housing: Black glass-filled polyester • UL94V-0 • Operating Temperature: -55°C ~ 125°C • Contact: Copper Alloy, 0.64mm (.025") square pin

***C-Grid III does not mate to C-Grid**

Fig. 1 – Single Row, Vertical

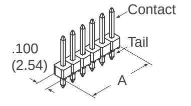

Fig. 2 – Single Row, Right Angle

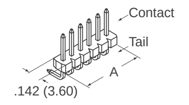

Fig. 3 – Dual Row, Vertical

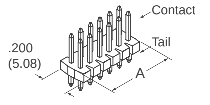

Fig. 4 – Dual Row, Right Angle

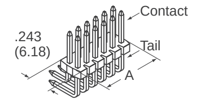

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing				Molex Part No.
				1	10	100	500	
Tin Contacts with Tin Tails								
1	2	.200 (5.08)	WM8072-ND	.21	1.84	12.24	48.97	90120-0122
	3	.300 (7.62)	WM8073-ND	.31	2.76	18.39	73.56	90120-0123
	4	.400 (10.16)	WM8074-ND	.42	3.67	24.49	97.94	90120-0124
	5	.500 (12.70)	WM8075-ND	.52	4.60	30.64	122.54	90120-0125
	6	.600 (15.24)	WM8076-ND	.62	5.51	36.73	146.92	90120-0126
	7	.700 (17.78)	WM8077-ND	.73	6.43	42.88	171.51	90120-0127
	8	.800 (20.32)	WM8078-ND	.83	7.29	48.60	194.40	90120-0128
	9	.900 (22.86)	WM8079-ND	.93	8.20	54.70	218.78	90120-0129
	10	1.000 (25.40)	WM8080-ND	1.03	9.13	60.85	243.38	90120-0130
	11	1.100 (27.94)	WM8081-ND	.80	7.04	46.96	187.83	90120-0131
	12	1.200 (30.48)	WM8082-ND	.69	6.09	40.57	162.29	90120-0132
	40	4.000 (101.60)	WM8083-ND	4.14	36.55	243.67	974.67	90120-0160
2	2	.200 (5.08)	WM8096-ND	.23	2.05	13.68	54.70	90121-0122
	3	.300 (7.62)	WM8097-ND	.35	3.06	20.41	81.62	90121-0123
	4	.400 (10.16)	WM8098-ND	.47	4.11	27.38	109.50	90121-0124
	5	.500 (12.70)	WM8099-ND	.58	5.08	33.89	135.57	90121-0125
	6	.600 (15.24)	WM8100-ND	.67	5.88	39.17	156.67	90121-0126
	7	.700 (17.78)	WM8101-ND	.76	6.75	45.00	179.99	90121-0127
	8	.800 (20.32)	WM8102-ND	.85	7.53	50.22	200.87	90121-0128
	9	.900 (22.86)	WM8103-ND	.91	8.03	53.50	214.01	90121-0129
	10	1.000 (25.40)	WM8104-ND	1.03	9.13	60.85	243.38	90121-0130
	11	1.100 (27.94)	WM8105-ND	1.14	10.04	66.94	267.76	90121-0131
	12	1.200 (30.48)	WM8106-ND	1.24	10.96	73.09	292.35	90121-0132
	40	4.000 (101.60)	WM8107-ND	4.59	40.47	269.80	1079.19	90121-0160
3	4	.200 (5.08)	WM8120-ND	.42	3.67	24.49	97.94	90131-0122
	6	.300 (7.62)	WM8121-ND	.43	3.80	25.31	101.23	90131-0123
	8	.400 (10.16)	WM8122-ND	.83	7.29	48.60	194.40	90131-0124
	10	.500 (12.70)	WM8123-ND	1.03	9.13	60.85	243.38	90131-0125
	12	.600 (15.24)	WM8124-ND	1.24	10.96	73.09	292.35	90131-0126
	14	.700 (17.78)	WM8125-ND	1.45	12.81	85.41	341.64	90131-0127
	16	.800 (20.32)	WM8126-ND	1.66	14.64	97.57	390.29	90131-0128
	18	.900 (22.86)	WM8127-ND	1.87	16.53	110.19	440.75	90131-0129
	20	1.000 (25.40)	WM8128-ND	2.08	18.36	122.43	489.72	90131-0130
3	22	1.100 (27.94)	WM8129-ND	2.28	20.15	134.30	537.21	90131-0131
	24	1.200 (30.48)	WM8130-ND	2.48	21.91	146.10	584.38	90131-0132
	26	1.300 (33.02)	WM8131-ND	2.69	23.75	158.34	633.35	90131-0133
	28	1.400 (35.56)	WM8132-ND	2.90	25.59	170.58	682.32	90131-0134
	30	1.500 (38.10)	WM8133-ND	3.11	27.42	182.82	731.29	90131-0135
	40	2.000 (50.80)	WM8134-ND	4.14	36.55	243.67	974.67	90131-0140
	50	2.500 (63.50)	WM8135-ND	5.18	45.69	304.62	1218.47	90131-0145
	60	3.000 (76.20)	WM8136-ND	6.22	54.85	365.65	1462.59	90131-0150
	80	4.000 (101.60)	WM8137-ND	8.28	73.09	487.28	1949.13	90131-0160
4	4	.200 (5.08)	WM8157-ND	.85	7.53	50.22	200.87	90122-0122
	6	.300 (7.62)	WM8158-ND	1.07	9.46	63.04	252.17	90122-0123
	8	.400 (10.16)	WM8159-ND	1.15	10.16	67.74	270.94	90122-0124
	10	.500 (12.70)	WM8160-ND	1.30	11.45	76.35	305.39	90122-0125
	12	.600 (15.24)	WM8161-ND	1.51	13.29	88.59	354.36	90122-0126
	14	.700 (17.78)	WM8162-ND	1.67	14.76	98.40	393.58	90122-0127
	16	.800 (20.32)	WM8163-ND	1.85	16.35	109.00	435.98	90122-0128
	18	.900 (22.86)	WM8164-ND	2.03	17.94	119.60	478.38	90122-0129
	20	1.000 (25.40)	WM8165-ND	2.20	19.41	129.40	517.60	90122-0130
	24	1.200 (30.48)	WM8166-ND	2.53	22.35	148.98	595.93	90122-0132
	26	1.300 (33.02)	WM8167-ND	2.82	24.85	165.68	662.71	90122-0133
	30	1.500 (38.10)	WM8168-ND	3.39	29.87	199.15	796.59	90122-0135
	34	1.700 (43.18)	WM8169-ND	3.57	31.47	209.78	839.10	90122-0137
	36	1.800 (45.72)	WM8170-ND	3.64	32.14	214.28	857.12	90122-0138
	40	2.000 (50.80)	WM8171-ND	4.33	38.20	254.67	1018.66	90122-0140
	44	2.200 (55.88)	WM8172-ND	4.55	40.11	267.39	1069.54	90122-0142
	50	2.500 (63.50)	WM8173-ND	6.04	53.26	355.05	1420.19	90122-0145
	80	4.000 (101.60)	WM8174-ND	7.46	65.87	439.11	1756.42	90122-0160
Gold Contacts with Tin Tail								
1	2	.200 (5.08)	WM8084-ND	.33	2.88	19.21	76.85	90120-0762
	3	.300 (7.62)	WM8085-ND	.49	4.35	29.02	116.07	90120-0763
	4	.400 (10.16)	WM8086-ND	.66	5.82	38.80	155.18	90120-0764
	5	.500 (12.70)	WM8087-ND	.71	6.31	42.06	168.22	90120-0765
	6	.600 (15.24)	WM8088-ND	.99	8.69	57.96	231.82	90120-0766

(Continued)

C-Grid III™ 2.54mm (.100") Pitch *(Cont.)*

Headers *(Cont.)*

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing				Molex Part No.
				1	10	100	500	
1	7	.700 (17.78)	WM8089-ND	1.15	10.16	67.74	270.94	90120-0767
	8	.800 (20.32)	WM8090-ND	1.32	11.63	77.54	310.16	90120-0768
	9	.900 (22.86)	WM8091-ND	1.48	13.10	87.35	349.38	90120-0769
	10	1.000 (25.40)	WM8092-ND	1.64	14.51	96.75	387.01	90120-0770
	11	1.100 (27.94)	WM8093-ND	1.80	15.92	106.11	424.42	90120-0771
	12	1.200 (30.48)	WM8094-ND	1.97	17.39	115.91	463.64	90120-0772
	40	4.000 (101.60)	WM8095-ND	6.57	57.98	386.50	1546.01	90120-0800
2	2	.200 (5.08)	WM8108-ND	.33	2.88	19.21	76.85	90121-0762
	3	.300 (7.62)	WM8109-ND	.49	4.35	29.02	116.07	90121-0763
	4	.400 (10.16)	WM8110-ND	.71	6.31	42.06	168.22	90121-0764
	5	.500 (12.70)	WM8111-ND	.89	7.87	52.50	209.99	90121-0765
	6	.600 (15.24)	WM8112-ND	1.08	9.49	63.28	253.13	90121-0766
	7	.700 (17.78)	WM8113-ND	1.26	11.09	73.91	295.63	90121-0767
	8	.800 (20.32)	WM8114-ND	1.43	12.61	84.06	336.23	90121-0768
	9	.900 (22.86)	WM8115-ND	1.60	14.15	94.31	377.25	90121-0769
	10	1.000 (25.40)	WM8116-ND	3.11	27.42	182.82	731.29	90121-0770
	11	1.100 (27.94)	WM8117-ND	1.80	15.92	106.11	424.42	90121-0771
	12	1.200 (30.48)	WM8118-ND	2.14	18.92	126.14	504.56	90121-0772
	40	4.000 (101.60)	WM8119-ND	7.09	62.53	416.85	1667.38	90121-0800
3	4	.200 (5.08)	WM8138-ND	.66	5.82	38.80	155.18	90131-0762
	6	.300 (7.62)	WM8139-ND	.99	8.69	57.96	231.82	90131-0763
	8	.400 (10.16)	WM8140-ND	1.32	11.63	77.54	310.16	90131-0764
	10	.500 (12.70)	WM8141-ND	1.64	14.51	96.75	387.01	90131-0765
	12	.600 (15.24)	WM8142-ND	1.97	17.39	115.91	463.64	90131-0766
	14	.700 (17.78)	WM8143-ND	2.30	20.32	135.50	541.98	90131-0767
	16	.800 (20.32)	WM8144-ND	2.63	23.18	154.52	618.09	90131-0768
	18	.900 (22.86)	WM8145-ND	3.62	31.95	213.03	852.13	90131-0769
	20	1.000 (25.40)	WM8146-ND	3.29	29.02	193.45	773.80	90131-0770
3	22	1.100 (27.94)	WM8147-ND	3.62	31.95	213.03	852.13	90131-0771
	24	1.200 (30.48)	WM8148-ND	3.95	34.84	232.25	928.98	90131-0772
	26	1.300 (33.02)	WM8149-ND	4.27	37.71	251.38	1005.52	90131-0773
	28	1.400 (35.56)	WM8150-ND	4.66	41.14	274.25	1096.99	90131-0774
	30	1.500 (38.10)	WM8151-ND	4.96	43.77	291.79	1167.17	90131-0775
	40	2.000 (50.80)	WM8152-ND	6.58	58.03	386.87	1547.49	90131-0780
	50	2.500 (63.50)	WM8153-ND	8.21	72.48	483.20	1932.80	90131-0785
	60	3.000 (76.20)	WM8154-ND	9.87	87.05	580.32	2321.29	90131-0790
	72	3.600 (91.44)	WM8155-ND	11.49	101.37	675.80	2703.21	90131-0796
	80	4.000 (101.60)	WM8156-ND	13.16	116.13	774.17	3096.68	90131-0800
4	4	.200 (5.08)	WM8175-ND	.92	8.08	53.88	215.50	90122-0762
	6	.300 (7.62)	WM8176-ND	1.59	14.02	93.49	373.97	90122-0763
	8	.400 (10.16)	WM8177-ND	1.83	16.16	107.75	431.00	90122-0764
	10	.500 (12.70)	WM8178-ND	2.06	18.19	121.24	484.95	90122-0765
	12	.600 (15.24)	WM8179-ND	2.41	21.30	142.01	568.05	90122-0766
	14	.700 (17.78)	WM8180-ND	2.85	25.17	167.77	671.09	90122-0767
	16	.800 (20.32)	WM8181-ND	2.99	26.39	175.93	703.73	90122-0768
	18	.900 (22.86)	WM8182-ND	3.30	29.08	193.88	775.50	90122-0769
	20	1.000 (25.40)	WM8183-ND	3.59	31.71	211.39	845.56	90122-0770
	22	1.100 (27.94)	WM8184-ND	3.93	34.71	231.43	925.70	90122-0771
	24	1.200 (30.48)	WM8185-ND	4.31	38.02	253.47	1013.89	90122-0772
	26	1.300 (33.02)	WM8186-ND	4.62	40.77	271.79	1087.14	90122-0773
	28	1.400 (35.56)	WM8187-ND	4.96	43.73	291.50	1166.00	90122-0774
	30	1.500 (38.10)	WM8188-ND	5.31	46.87	312.49	1249.95	90122-0775
	40	2.000 (50.80)	WM8189-ND	6.92	61.04	406.91	1627.63	90122-0780
	50	2.500 (63.50)	WM8190-ND	9.85	86.93	579.50	2318.01	90122-0785
	60	3.000 (76.20)	WM8191-ND	11.66	102.84	685.61	2742.43	90122-0790
	80	4.000 (101.60)	WM8192-ND	15.03	132.59	883.94	3535.74	90122-0800

Shrouded Headers

SPECIFICATIONS:
ELECTRICAL: • Voltage: 350V • Current Rating: 3.0A • Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000 MΩ minimum
PHYSICAL: • Housing: Black glass-filled polyester • UL94V-0 • Operating Temperature: -55°C ~ 125°C • Contact: Copper Alloy, 0.64mm (.025") square pins

***C-Grid III does not mate to C-Grid**

Fig. 1 – Single Row, Right Angle

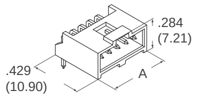

Fig. 2 – Single Row, Vertical

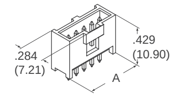

Fig. 3 – Dual Row, Vertical, Fully Loaded

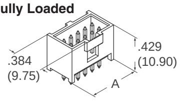

Fig. 4 – Dual Row, Right Angle Fully Loaded

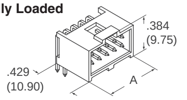

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing				Molex Part No.
				1	10	100	500	
Tin Contacts with Tin Tails								
1	2	.347 (8.81)	WM8193-ND	.78	6.92	46.14	184.55	90136-2102
	3	.447 (11.35)	WM8194-ND	.89	7.83	52.23	208.93	90136-2103
	4	.547 (13.89)	WM8195-ND	1.15	10.10	67.36	269.45	90136-2104
	5	.647 (16.43)	WM8196-ND	1.37	12.06	80.43	321.71	90136-2105
	6	.747 (18.97)	WM8197-ND	1.55	13.71	91.43	365.70	90136-2106
	7	.847 (21.51)	WM8198-ND	.68	6.00	39.99	159.95	90136-2107
	8	.947 (24.05)	WM8199-ND	2.09	18.43	122.88	491.52	90136-2108
	9	1.047 (26.59)	WM8200-ND	.87	7.71	51.41	205.64	90136-2109
	10	1.147 (29.13)	WM8201-ND	.97	8.57	57.14	228.54	90136-2110
	12	1.347 (34.21)	WM8202-ND	1.17	10.28	68.56	274.22	90136-2112
2	2	.347 (8.81)	WM8213-ND	.71	6.31	42.06	168.22	90136-1102
	3	.447 (11.35)	WM8214-ND	.74	6.49	43.25	172.99	90136-1103
	4	.547 (13.89)	WM8215-ND	1.01	8.88	59.20	236.80	90136-1104
	5	.647 (16.43)	WM8216-ND	1.12	9.86	65.75	262.99	90136-1105
	6	.747 (18.97)	WM8217-ND	1.28	11.27	75.10	300.40	90136-1106
	7	.847 (21.51)	WM8218-ND	1.46	12.86	85.70	342.80	90136-1107
	8	.947 (24.05)	WM8219-ND	1.69	14.88	99.19	396.76	90136-1108
	9	1.047 (26.59)	WM8220-ND	1.89	16.71	111.43	445.73	90136-1109
	10	1.147 (29.13)	WM8221-ND	2.01	17.75	118.35	473.40	90136-1110
	12	1.347 (34.21)	WM8222-ND	2.30	20.29	135.26	541.02	90136-1112
3	6	.407 (10.34)	WM8233-ND	1.46	12.92	86.15	344.61	90130-1106
	8	.507 (12.88)	WM8234-ND	1.69	14.94	99.59	398.35	90130-1108
	10	.607 (15.42)	WM8235-ND	1.91	16.84	112.26	449.02	90130-1110
	12	.707 (17.96)	WM8236-ND	2.14	18.85	125.69	502.76	90130-1112
	14	.807 (20.50)	WM8237-ND	2.36	20.81	138.76	555.02	90130-1114
	16	.907 (23.04)	WM8238-ND	2.58	22.77	151.82	607.27	90130-1116
	18	1.007 (25.58)	WM8239-ND	3.13	27.61	184.10	736.38	90130-1118
	20	1.107 (28.12)	WM8240-ND	3.64	32.14	214.28	857.12	90130-1120
	24	1.307 (33.20)	WM8241-ND	4.18	36.85	245.68	982.73	90130-1124
	26	1.407 (35.74)	WM8242-ND	4.52	39.91	266.09	1064.35	90130-1126
	30	1.607 (40.82)	WM8243-ND	5.22	46.03	306.90	1227.59	90130-1130
	34	1.807 (45.90)	WM8244-ND	5.81	51.30	341.98	1367.93	90130-1134
	40	2.107 (53.52)	WM8245-ND	6.55	57.79	385.26	1541.03	90130-1140
	50	2.607 (66.22)	WM8246-ND	6.94	61.22	408.10	1632.40	90130-1150
4	6	.407 (10.34)	WM8261-ND	1.60	14.15	94.31	377.25	90130-3106
	8	.507 (12.88)	WM8262-ND	1.85	16.28	108.55	434.18	90130-3108
	10	.607 (15.42)	WM8263-ND	2.10	18.49	123.25	493.01	90130-3110
	12	.707 (17.96)	WM8264-ND	2.34	20.63	137.56	550.25	90130-3112
	14	.807 (20.50)	WM8265-ND	2.59	22.84	152.24	608.97	90130-3114
	16	.907 (23.04)	WM8266-ND	2.83	24.98	166.50	666.00	90130-3116
	18	1.007 (25.58)	WM8267-ND	1.29	11.41	76.08	304.33	90130-3118
	20	1.107 (28.12)	WM8268-ND	1.41	12.40	82.65	330.61	90130-3120
	24	1.307 (33.20)	WM8269-ND	4.59	40.53	270.17	1080.67	90130-3124
	26	1.407 (35.74)	WM8270-ND	4.98	43.90	292.67	1170.66	90130-3126
	30	1.607 (40.82)	WM8271-ND	5.71	50.37	335.81	1343.23	90130-3130
	34	1.807 (45.90)	WM8272-ND	6.54	57.67	384.44	1537.74	90130-3134
	40	2.107 (53.52)	WM8273-ND	7.96	70.22	468.12	1872.49	90130-3140

Fig.	Circuits	Dimension A Inch (mm)	Digi-Key Part No.	Pricing				Molex Part No.
				1	10	100	500	
Gold Contacts with Tin Tails								
1	2	.347 (8.81)	WM8203-ND	.92	8.08	53.88	215.50	90136-2202
	3	.447 (11.35)	WM8204-ND	1.17	10.28	68.56	274.22	90136-2203
	4	.547 (13.89)	WM8205-ND	1.49	13.17	87.77	351.07	90136-2204
	5	.647 (16.43)	WM8206-ND	1.67	14.76	98.40	393.58	90136-2205
	6	.747 (18.97)	WM8207-ND	1.74	15.37	102.48	409.90	90136-2206
	7	.847 (21.51)	WM8208-ND	2.12	18.67	124.50	497.99	90136-2207
	8	.947 (24.05)	WM8209-ND	2.48	21.91	146.10	584.38	90136-2208
	9	1.047 (26.59)	WM8210-ND	2.81	24.80	165.31	661.23	90136-2209
	10	1.147 (29.13)	WM8211-ND	3.12	27.55	183.65	734.58	90136-2210
	12	1.347 (34.21)	WM8212-ND	3.74	33.04	220.24	880.97	90136-2212
2	2	.347 (8.81)	WM8223-ND	.82	7.22	48.15	192.60	90136-1202
	3	.447 (11.35)	WM8224-ND	1.38	12.19	81.25	325.00	90136-1203
	4	.547 (13.89)	WM8225-ND	1.52	13.41	89.41	357.64	90136-1204
	5	.647 (16.43)	WM8226-ND	1.57	13.83	92.22	368.88	90136-1205
	6	.747 (18.97)	WM8227-ND	1.62	14.33	95.51	382.02	90136-1206
	7	.847 (21.51)	WM8228-ND	1.67	14.76	98.40	393.58	90136-1207
	8	.947 (24.05)	WM8229-ND	2.41	21.25	141.64	566.57	90136-1208
	9	1.047 (26.59)	WM8230-ND	2.55	22.53	150.18	600.70	90136-1209
	10	1.147 (29.13)	WM8231-ND	2.71	23.87	159.16	636.64	90136-1210
	12	1.347 (34.21)	WM8232-ND	3.24	28.61	190.75	762.99	90136-1212
3	6	.407 (10.34)	WM8247-ND	1.85	16.28	108.55	434.18	90130-1206
	8	.507 (12.88)	WM8248-ND	2.12	18.73	124.87	499.47	90130-1208
	10	.607 (15.42)	WM8249-ND	2.40	21.18	141.19	564.77	90130-1210
	12	.707 (17.96)	WM8250-ND	2.68	23.63	157.52	630.06	90130-1212
	14	.807 (20.50)	WM8251-ND	2.95	26.02	173.47	693.88	90130-1214
	16	.907 (23.04)	WM8252-ND	3.23	28.47	189.79	759.17	90130-1216
	18	1.007 (25.58)	WM8253-ND	3.93	34.71	231.43	925.70	90130-1218
	20	1.107 (28.12)	WM8254-ND	4.23	37.34	248.94	995.76	90130-1220
	24	1.307 (33.20)	WM8255-ND	5.77	50.88	339.17	1356.69	90130-1224
	26	1.407 (35.74)	WM8256-ND	5.68	50.14	334.27	1337.08	90130-1226
	30	1.607 (40.82)	WM8257-ND	6.56	57.85	385.68	1542.72	90130-1230
	34	1.807 (45.90)	WM8258-ND	7.30	64.40	429.33	1717.31	90130-1234
	40	2.107 (53.52)	WM8259-ND	8.70	76.79	511.95	2047.81	90130-1240
	50	2.607 (66.22)	WM8260-ND	9.88	87.17	581.15	2324.58	90130-1250
4	6	.407 (10.34)	WM8275-ND	2.02	17.82	118.80	475.20	90130-3206
	8	.507 (12.88)	WM8276-ND	2.33	20.57	137.11	548.44	90130-3208
	10	.607 (15.42)	WM8277-ND	2.65	23.39	155.90	623.60	90130-3210
	12	.707 (17.96)	WM8278-ND	2.97	26.20	174.66	698.65	90130-3212
	14	.807 (20.50)	WM8279-ND	3.28	28.96	193.05	772.21	90130-3214
	16	.907 (23.04)	WM8280-ND	3.60	31.78	211.84	847.36	90130-3216
	18	1.007 (25.58)	WM8281-ND	4.38	38.63	257.55	1030.21	90130-3218
	20	1.107 (28.12)	WM8282-ND	4.82	42.55	283.66	1134.62	90130-3220
	24	1.307 (33.20)	WM8283-ND	5.78	51.00	339.97	1359.87	90130-3224
	40	2.107 (53.52)	WM8284-ND	9.04	79.77	531.78	2127.10	90130-3240

Female Crimp Terminals

SPECIFICATIONS:
ELECTRICAL: • Voltage: 350V • Current Rating: 3.0A • Contact Resistance: 20mΩ maximum
PHYSICAL: • Contact: Copper alloy • Wire Insulation Diameter: 1.70mm (.067") maximum
†Plating A: 100µm (39µ") minimum Hot Tin dip
‡ Plating E: 0.38µm (15µ") selective Gold over Nickel and 4µm (160µ") Tin/Lead over Nickel

Wire Range	Insulation Diameter Range Inch (mm)	Plating Option	Digi-Key Part No.	Pricing			Molex Part No.
				10	100	500	
22-24	.040/.058 (1.02/1.47)	A†	WM2558-ND	1.37	11.42	45.69	90119-2109
		E‡	WM2559-ND	2.11	17.57	70.28	90119-2110
26-28	.030/.048 (0.76/1.22)	A†	WM2560-ND	1.37	11.42	45.69	90119-2120
		E‡	WM2561-ND	2.11	17.57	70.28	90119-2121

MTA .100” (2.54mm) Receptacles and Post Headers

IDC RECEPTACLES: • Wire-to-post connectors preloaded with dual beam contacts • Connectors and headers are end-to-end stackable • Connectors preloaded with IDC contact • All contacts are slotted for insulation displacement (IDC) terminal technique • Contacts are lubricated to prevent fretting corrosion • Meets the material requirements of Table 23.1 of UL1410 Standards for Television Receiver and Video Products (wire-to-post connectors only) • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association

PERFORMANCE DATA: Voltage Rating: 250VAC **Current Rating:** 4A maximum **Low-Level Resistance:** 5mΩ maximum initial **Dielectric Withstanding Voltage:** 750VAC/1 minute **Insulation Resistance:** 5000MΩ minimum initial **Operating Temperature:** -55°C ~ 105°C **MATERIAL AND FINISH: Receptacles:** UL94V-2 rated (unless otherwise noted), type 6/6 nylon (28 AWG - Green; 26 AWG - Blue; 24 AWG - White; 22 AWG - Red) **Contacts:** Phosphor bronze, post tin plated, 30µ

REPLACEMENT IDC CONTACTS: MATERIAL AND FINISH: Phosphor bronze, post tin plated; 30µ

CST - 100 CRIMP CONTACTS AND HOUSINGS: • High current rating • Mates with MTA and similar competitive notched headers • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 **PERFORMANCE DATA: Voltage Rating:** 250VAC **Current Rating:** 4A maximum **Low-Level Resistance:** 6mΩ maximum initial, 10mΩ maximum final **Insulation Resistance:** 1000MΩ minimum initial, 100MΩ minimum final **Operating Temperature:** -55°C ~ 105°C **MATERIAL AND FINISH:** Selective gold, 30µ gold over 127µ nickel or bright tin-lead on entire contact **Wire Range:** 22-26 AWG **Maximum Ins. Diameter:** .065

KEYING PLUG WITH CARRIER STRIP (10 plugs per strip): MATERIAL: UL94V-2 rated, type 6/6 nylon, natural color

LED CONNECTORS: Designed to mate with .36mm-.51mm diameter posts or square leads **MATERIAL AND FINISH: Receptacles:** UL94V-2 rated, type 6/6 nylon (28 AWG - Green; 26 AWG - Blue; 24 AWG - White; 22 AWG - Red) **Contacts:** Phosphor bronze, post tin plated, 30µ

REPLACEMENT LED CONTACTS: MATERIAL AND FINISH: Phosphor bronze, post tin plated; 30µ

POST HEADERS: Material For Housing: Polyester UL94V-0 rated, natural **Posts:** Tin plated copper alloy

Fig. 1 — Receptacle

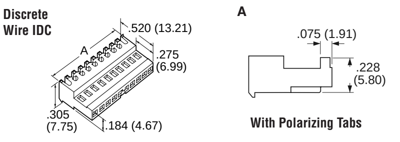

Fig. 2 — IDC & LED Contacts

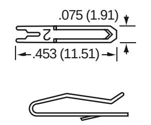

Fig. 3 — CST - 100 Housing

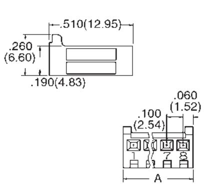

Fig. 4 — CST - 100 Crimp Contact

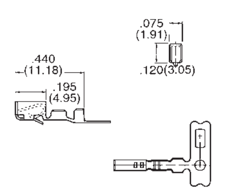

Fig. 5 — Keying Plug

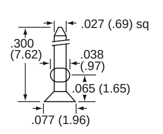

Fig. 6 — Strain Relief Cover - Closed End

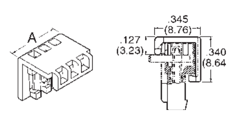

Fig. 7 — Dust Cover - Closed End

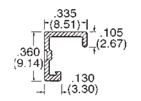

Fig. 8 — Strain Relief Cover - Feed-Thru

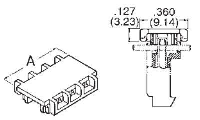

Fig. 9 — Dust Cover - Feed-Thru

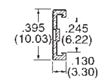

Fig. 10

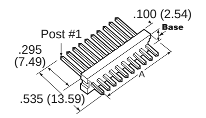

Fig. 11

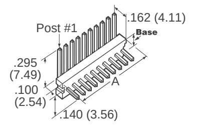

Fig. 12

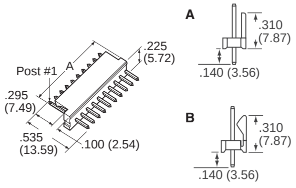

Fig. 13

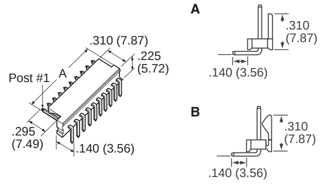

Fig. 14

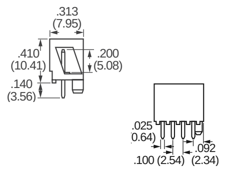

Fig. 15

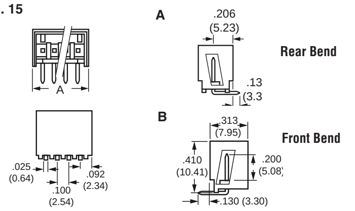

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing 1	25	AMP Part No.
			Receptacles, .100” (2.54mm) Centers				
1	***RoHS Compliant*** Closed End with Lock, without Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A30994-ND	.17	2.45	3-640443-2
		3	.300 (7.62)	A30995-ND	.17	2.98	3-640443-3
		4	.400 (10.16)	A30996-ND	.22	4.94	3-640443-4
		5	.500 (12.70)	A30997-ND	.28	6.30	3-640443-5
		6	.600 (15.24)	A30998-ND	.30	6.73	3-640443-6
		7	.700 (17.78)	A30999-ND	.35	7.86	3-640443-7
		8	.800 (20.32)	A31000-ND	.40	8.95	3-640443-8
		9	.900 (22.86)	A31001-ND	.98	22.20	3-640443-9
		10	1.000 (25.40)	A30951-ND	.50	11.24	4-640443-0
		11	1.100 (27.94)	A30952-ND	1.20	27.14	4-640443-1
		12	1.200 (30.48)	A30953-ND	.64	14.43	4-640443-2
		13	1.300 (33.02)	A30954-ND	1.42	32.07	4-640443-3
		14	1.400 (35.56)	A30955-ND	1.53	34.54	4-640443-4
		15	1.500 (38.10)	A30956-ND	1.04	23.66	4-640443-5
1A	***RoHS Compliant*** Closed End with Lock, with Polarizing Tabs, 28 AWG, Green, Tin Plated	2	.200 (5.08)	A31031-ND	.17	2.45	3-643816-2
		3	.300 (7.62)	A31032-ND	.20	2.98	3-643816-3
		4	.400 (10.16)	A31033-ND	.22	4.94	3-643816-4
		5	.500 (12.70)	A31034-ND	.28	6.30	3-643816-5
		6	.600 (15.24)	A31035-ND	.30	6.73	3-643816-6
		7	.700 (17.78)	A31036-ND	.35	7.86	3-643816-7
		8	.800 (20.32)	A31037-ND	.40	8.95	3-643816-8
		10	1.000 (25.40)	A30970-ND	.50	11.24	4-643816-0
		12	1.200 (30.48)	A30971-ND	.64	14.43	4-643816-2
		15	1.500 (38.10)	A30972-ND	1.04	23.66	4-643816-5
1	Feed-Thru with Lock, without Polarizing Tabs, 28 AWG Green, Tin Plated	9	.900 (22.86)	A19139-ND	.98	22.20	640623-9
		14	1.400 (35.56)	A19144-ND	2.06	46.63	1-640623-4
	RoHS Compliant Feed-Thru with Lock, without Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A30814-ND	.19	4.22	3-640623-2
		3	.300 (7.62)	A30815-ND	.21	4.68	3-640623-3
		4	.400 (10.16)	A30816-ND	.22	4.94	3-640623-4
		5	.500 (12.70)	A30817-ND	.28	6.30	3-640623-5
		6	.600 (15.24)	A30818-ND	.30	6.73	3-640623-6
		7	.700 (17.78)	A30819-ND	.35	7.86	3-640623-7
		8	.800 (20.32)	A30820-ND	.40	8.95	3-640623-8
		9	.900 (22.86)	A30821-ND	.98	22.20	3-640623-9
		10	1.000 (25.40)	A30802-ND	.50	11.24	4-640623-0
		11	1.100 (27.94)	A30803-ND	1.20	27.14	4-640623-1
		12	1.200 (30.48)	A30804-ND	.64	14.43	4-640623-2
		13	1.300 (33.02)	A30805-ND	1.42	32.07	4-640623-3
		14	1.400 (35.56)	A30806-ND	1.53	34.54	4-640623-4
		15	1.500 (38.10)	A30807-ND	1.04	23.66	4-640623-5
1A	***RoHS Compliant*** Feed-Thru with Lock, with Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A31045-ND	.18	4.07	3-644565-2
		3	.300 (7.62)	A31046-ND	.20	4.50	3-644565-3
		4	.400 (10.16)	A31047-ND	.22	4.94	3-644565-4
		5	.500 (12.70)	A31048-ND	.28	6.30	3-644565-5
		6	.600 (15.24)	A31049-ND	.30	6.73	3-644565-6
		7	.700 (17.78)	A31050-ND	.35	7.86	3-644565-7
		8	.800 (20.32)	A31051-ND	.40	8.95	3-644565-8
		10	1.000 (25.40)	A30975-ND	.50	11.24	4-644565-0
		12	1.200 (30.48)	A30976-ND	.64	14.43	4-644565-2
		15	1.500 (38.10)	A30977-ND	1.04	23.66	4-644565-5
1	Closed End with Lock without Polarizing Tabs, 26 AWG Blue, Tin Plated	11	1.100 (27.94)	A19039-ND	1.20	27.14	1-640442-1
	RoHS Compliant Closed End with Lock, without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A30986-ND	.17	2.45	3-640442-2
		3	.300 (7.62)	A30987-ND	.17	2.98	3-640442-3
		4	.400 (10.16)	A30988-ND	.22	4.94	3-640442-4
		5	.500 (12.70)	A30989-ND	.28	6.30	3-640442-5
		6	.600 (15.24)	A30990-ND	.30	6.73	3-640442-6
		7	.700 (17.78)	A30991-ND	.35	7.86	3-640442-7
		8	.800 (20.32)	A30992-ND	.40	8.95	3-640442-8
		9	.900 (22.86)	A30993-ND	.98	22.20	3-640442-9
		10	1.000 (25.40)	A30945-ND	.50	11.24	4-640442-0
		11	1.100 (27.94)	A30946-ND	1.20	27.14	4-640442-1
		12	1.200 (30.48)	A30947-ND	.64	14.43	4-640442-2
		13	1.300 (33.02)	A30948-ND	1.42	32.07	4-640442-3
		13	1.300 (33.02)	A30808-ND†	.80	18.05	4-643828-3
		14	1.400 (35.56)	A30949-ND	1.53	34.54	4-640442-4
		15	1.500 (38.10)	A30950-ND	1.04	23.66	4-640442-5

† UL94V-0 - Black Housing

(Continued)

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
1A	***RoHS Compliant*** Closed End with Lock, with Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A31024-ND	.17	2.45	3-643815-2
		3	.300 (7.62)	A31025-ND	.17	2.98	3-643815-3
		4	.400 (10.16)	A31026-ND	.22	4.94	3-643815-4
		5	.500 (12.70)	A31027-ND	.28	6.30	3-643815-5
		6	.600 (15.24)	A31028-ND	.30	6.73	3-643815-6
		7	.700 (17.78)	A31029-ND	.35	7.86	3-643815-7
		8	.800 (20.32)	A31030-ND	.40	8.95	3-643815-8
		10	1.000 (25.40)	A30967-ND	.50	11.24	4-643815-0
		12	1.200 (30.48)	A30968-ND	.64	14.43	4-643815-2
		13	1.300 (33.02)	A30810-ND†	.80	18.05	4-644313-3
		15	1.500 (38.10)	A30969-ND	1.04	23.66	4-643815-5
1	Feed-Thru with Lock, without Polarizing Tabs, 26 AWG Blue, Tin Plated	11	1.100 (27.94)	A19121-ND	1.20	27.14	1-640622-1
		14	1.400 (35.56)	A19131-ND	2.06	46.63	1-640622-4
	RoHS Compliant Feed-Thru with Lock, without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A31009-ND	.19	4.23	3-640622-2
		3	.300 (7.62)	A31010-ND	.21	4.66	3-640622-3
		4	.400 (10.16)	A31011-ND	.22	4.94	3-640622-4
		5	.500 (12.70)	A31012-ND	.28	6.30	3-640622-5
		6	.600 (15.24)	A31013-ND	.30	6.73	3-640622-6
		7	.700 (17.78)	A31014-ND	.35	7.86	3-640622-7
		8	.800 (20.32)	A31015-ND	.40	8.95	3-640622-8
		9	.900 (22.86)	A31016-ND	.98	22.20	3-640622-9
		10	1.000 (25.40)	A30957-ND	1.09	24.67	4-640622-0
		11	1.100 (27.94)	A30958-ND	1.20	27.14	4-640622-1
		12	1.200 (30.48)	A30959-ND	.64	14.43	4-640622-2
		13	1.300 (33.02)	A30960-ND	1.42	32.07	4-640622-3
		13	1.300 (33.02)	A30813-ND†	.80	18.05	4-644577-3
		14	1.400 (35.56)	A30961-ND	1.53	34.54	4-640622-4
		15	1.500 (38.10)	A30962-ND	1.04	23.66	4-640622-5
1A	***RoHS Compliant*** Feed-Thru with Lock, with Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A31038-ND	.18	4.17	3-644564-2
		3	.300 (7.62)	A31039-ND	.21	4.66	3-644564-3
		4	.400 (10.16)	A31040-ND	.22	4.94	3-644564-4
		5	.500 (12.70)	A31041-ND	.28	6.30	3-644564-5
		6	.600 (15.24)	A31042-ND	.30	6.73	3-644564-6
		7	.700 (17.78)	A31043-ND	.35	7.86	3-644564-7
		8	.800 (20.32)	A31044-ND	.40	8.95	3-644564-8
		12	1.200 (30.48)	A30973-ND	.64	14.43	4-644564-2
		13	1.300 (33.02)	A30811-ND†	.80	18.05	4-644497-3
		15	1.500 (38.10)	A30974-ND	1.04	23.66	4-644564-5
1	Closed End with Lock, without Polarizing Tabs, 24 AWG White Tin Plated	11	1.100 (27.94)	A19024-ND	.61	13.73	1-640441-1
		14	1.400 (35.56)	A19027-ND	3.09	69.94	1-640441-4
	RoHS Compliant Closed End with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A30978-ND	.17	2.45	3-640441-2
		3	.300 (7.62)	A30979-ND	.17	2.98	3-640441-3
		4	.400 (10.16)	A30980-ND	.18	3.02	3-640441-4
		5	.500 (12.70)	A30981-ND	.28	6.30	3-640441-5
		6	.600 (15.24)	A30982-ND	.30	6.73	3-640441-6
		7	.700 (17.78)	A30983-ND	.35	7.86	3-640441-7
		8	.800 (20.32)	A30984-ND	.40	8.95	3-640441-8
		9	.900 (22.86)	A30985-ND	.98	22.20	3-640441-9
		10	1.000 (25.40)	A30939-ND	.50	11.24	4-640441-0
		11	1.100 (27.94)	A30940-ND	1.20	27.14	4-640441-1
		12	1.200 (30.48)	A30941-ND	.64	14.43	4-640441-2
		13	1.300 (33.02)	A30942-ND	1.42	32.07	4-640441-3
		13	1.300 (33.02)	A30812-ND†	.80	18.05	4-644574-3
		14	1.400 (35.56)	A30943-ND	1.53	34.54	4-640441-4
		15	1.500 (38.10)	A30944-ND	1.04	23.66	4-640441-5
1A	***RoHS Compliant*** Closed End with Locks, with Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A31017-ND	.17	2.45	3-643814-2
		3	.300 (7.62)	A31018-ND	.17	2.98	3-643814-3
		4	.400 (10.16)	A31019-ND	.22	4.94	3-643814-4
		5	.500 (12.70)	A31020-ND	.28	6.30	3-643814-5
		6	.600 (15.24)	A31021-ND	.30	6.73	3-643814-6
		7	.700 (17.78)	A3102 2-ND	.35	7.86	3-643814-7
		8	.800 (20.32)	A31023-ND	.40	8.95	3-643814-8
		10	1.000 (25.40)	A30963-ND	.50	11.24	4-643814-0
		12	1.200 (30.48)	A30964-ND	.64	14.43	4-643814-2
		13	1.300 (33.02)	A30809-ND†	.80	18.05	4-644312-3
		15	1.500 (38.10)	A30965-ND	1.04	23.66	4-643814-5
		16	1.600 (40.64)	A30966-ND	2.07	46.87	4-643814-6
1	Feed-Thru with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	6	.600 (15.24)	A19095-ND	.30	6.73	640621-6
		9	.900 (22.86)	A19098-ND	1.89	42.71	640621-9
		12	1.200 (30.48)	A19101-ND	.64	14.43	1-640621-2
		13	1.300 (33.02)	A19110-ND	1.91	43.30	1-640621-3
	RoHS Compliant Feed-Thru with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A31002-ND	.18	4.02	3-640621-2
		3	.300 (7.62)	A31003-ND	.20	4.49	3-640621-3
		4	.400 (10.16)	A31004-ND	.22	4.94	3-640621-4
		5	.500 (12.70)	A31005-ND	.28	6.30	3-640621-5
		6	.600 (15.24)	A31006-ND	.30	6.73	3-640621-6
		7	.700 (17.78)	A31007-ND	.35	7.86	3-640621-7
		8	.800 (20.32)	A31008-ND	.40	8.95	3-640621-8
		9	.900 (22.86)	A31096-ND	1.89	42.71	3-640621-9
		10	1.000 (25.40)	A31064-ND	.50	11.24	4-640621-0
		11	1.100 (27.94)	A31065-ND	1.20	27.14	4-640621-1
		12	1.200 (30.48)	A31066-ND	.64	14.43	4-640621-2
		13	1.300 (33.02)	A31067-ND	1.42	32.07	4-640621-3
		13	1.300 (33.02)	A30824-ND†	.80	18.05	4-644576-3
		14	1.400 (35.56)	A31068-ND	1.53	34.54	4-640621-4
		15	1.500 (38.10)	A31069-ND	1.04	23.66	4-640621-5
1A	***RoHS Compliant*** Feed-Thru with Lock, with Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A31127-ND	.18	4.06	3-644563-2
		3	.300 (7.62)	A31128-ND	.19	4.41	3-644563-3
		4	.400 (10.16)	A31129-ND	.22	4.94	3-644563-4
		5	.500 (12.70)	A31130-ND	.28	6.30	3-644563-5
		6	.600 (15.24)	A31131-ND	.30	6.73	3-644563-6
		7	.700 (17.78)	A31132-ND	.35	7.86	3-644563-7
		8	.800 (20.32)	A31133-ND	.40	8.95	3-644563-8
		10	1.000 (25.40)	A31077-ND	.50	11.24	4-644563-0
		12	1.200 (30.48)	A31078-ND	.64	14.43	4-644563-2
		13	1.300 (33.02)	A30826-ND†	.80	18.05	4-644579-3
		15	1.500 (38.10)	A31079-ND	1.04	23.66	4-644563-5
1	***RoHS Compliant*** Closed End with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A31080-ND	.17	2.45	3-640440-2
		3	.300 (7.62)	A31081-ND	.17	2.98	3-640440-3
		4	.400 (10.16)	A31082-ND	.22	4.94	3-640440-4
		5	.500 (12.70)	A31083-ND	.28	6.30	3-640440-5
		6	.600 (15.24)	A31084-ND	.30	6.73	3-640440-6
		7	.700 (17.78)	A31085-ND	.35	7.86	3-640440-7
		8	.800 (20.32)	A31086-ND	.40	8.95	3-640440-8
		9	.900 (22.86)	A31087-ND	.98	22.20	3-640440-9
		10	1.000 (25.40)	A31052-ND	.50	11.24	4-640440-0
		11	1.100 (27.94)	A31053-N D	1.20	27.14	4-640440-1
		12	1.200 (30.48)	A31054-ND	.64	14.43	4-640440-2
		13	1.300 (33.02)	A31055-ND	1.42	32.07	4-640440-3
		14	1.400 (35.56)	A31056-ND	1.53	34.54	4-640440-4
		15	1.500 (38.10)	A31057-ND	1.04	23.66	4-640440-5
1A	Closed End with Lock, with Polarizing Tabs, 22 AWG Red, Tin Plated	13	1.300 (33.02)	A23845-ND†	.80	18.05	1-643813-3
1A	***RoHS Compliant*** Closed End with Lock, with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A31107-ND	.17	2.45	3-643813-2
		2	.200 (5.08)	A30841-ND	.34	7.81	3-644083-2
		3	.300 (7.62)	A30842-ND	.86	19.58	3-644083-3
		4	.400 (10.16)	A31108-ND	.22	4.94	3-643813-4
		5	.500 (12.70)	A31109-ND	.28	6.30	3-643813-5
		7	.700 (17.78)	A31110-ND	.35	7.86	3-643813-7
		8	.800 (20.32)	A31111-ND	.40	8.95	3-643813-8
		10	1.000 (25.40)	A31070-ND	.50	11.24	4-643813-0
		11	1.100 (27.94)	A31071-ND	2.31	52.21	4-643813-1
		12	1.200 (30.48)	A31072-ND	.64	14.43	4-643813-2
		13	1.300 (33.02)	A30822-ND	.80	18.05	4-644083-3
		15	1.500 (38.10)	A31073-ND	1.04	23.66	4-643813-5
1	Feed -Thru with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	12	1.200 (30.48)	A19080-ND	.64	14.43	1-640620-2
		13	1.300 (33.02)	A19081-ND	1.42	32.07	1-640620-3
1	***RoHS Compliant*** Feed -Thru with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A31088-ND	.19	4.21	3-640620-2
		3	.300 (7.62)	A31089-ND	.20	4.59	3-640620-3
		4	.400 (10.16)	A31090-ND	.22	4.94	3-640620-4
		5	.500 (12.70)	A31091-ND	.28	6.30	3-640620-5
		6	.600 (15.24)	A31092-ND	.30	6.73	3-640620-6
		7	.700 (17.78)	A31093-ND	.35	7.86	3-640620-7
		8	.800 (20.32)	A31094-ND	.40	8.95	3-640620-8
		9	.900 (22.86)	A31095-ND	.98	22.20	3-640620-9

† UL94V-0 - Black Housing

(Continued)

Fig.	Description	Circuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing 1	25	AMP Part No.
1	***RoHS Compliant*** Feed- Thru with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	10	1.000 (25.40)	A31058-ND	.50	11.24	4-640620-0
		11	1.100 (27.94)	A31059-ND	1.20	27.14	4-640620-1
		12	1.200 (30.48)	A31060-ND	.64	14.43	4-640620-2
		13	1.300 (33.02)	A31061-ND	1.42	32.07	4-640620-3
		13	1.300 (33.02)	A30823-ND†	.80	18.05	4-644575-3
		14	1.400 (35.56)	A31062-ND	1.53	34.54	4-640620-4
		15	1.500 (38.10)	A31063-ND	1.04	23.66	4-640620-5
1A	Feed -Thru with Lock, with Polarizing Tabs, 22 AWG Red, Tin Plated	13	1.300 (33.02)	A23856-ND†	.80	18.05	1-644578-3
	RoHS Compliant Feed -Thru with Lock, with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A31120-ND	.21	4.19	3-644540-2
		3	.300 (7.62)	A31121-ND	.21	4.64	3-644540-3
		4	.400 (10.16)	A31122-ND	.22	4.94	3-644540-4
		5	.500 (12.70)	A31123-ND	.28	6.30	3-644540-5
		6	.600 (15.24)	A31124-ND	.30	6.73	3-644540-6
		7	.700 (17.78)	A31125-ND	.35	7.86	3-644540-7
		8	.800 (20.32)	A31126-ND	.40	8.95	3-644540-8
		10	1.000 (25.40)	A31074-ND	.50	11.24	4-644540-0
		12	1.200 (30.48)	A31075-ND	.64	14.43	4-644540-2
		13	1.300 (33.02)	A30825-ND†	.80	18.05	4-644578-3
		15	1.500 (38.10)	A31076-ND	1.04	23.66	4-644540-5
Replacement IDC Contacts - RoHS Compliant							
2	Std. 28 AWG, Tin Plated	—	—	A31100-ND	1.52/25	2.16/50	640639-2
	Std. 26 AWG, Tin Plated	—	—	A31099-ND	1.71/25	2.43/50	640638-3
	Std. 24 AWG, Tin Plated	—	—	A31098-ND	1.71/25	2.43/50	640637-3
	Std. 22 AWG, Tin Plated	—	—	A31097-ND	1.71/25	2.43/50	640636-3
CST-100 Crimp Housing (Contacts Sold Separately)							
3	22-26 AWG White (Not to be used with MTA .100 Shrouded Header)	2	.220 (5.59)	A19490-ND	.28	3.09	770602-2
		3	.320 (8.13)	A19491-ND	.29	4.64	770602-3
		4	.420 (10.67)	A19492-ND	.17	3.31	770602-4
		5	.520 (13.21)	A19493-ND	.34	7.73	770602-5
		6	.620 (15.75)	A19494-ND	.41	9.28	770602-6
		7	.720 (18.29)	A19495-ND	.48	10.82	770602-7
		8	.820 (20.83)	A19496-ND	.55	12.37	770602-8
		9	.920 (23.37)	A19497-ND	.61	13.91	770602-9
		10	1.020 (25.91)	A19498-ND	.68	15.46	1-770602-0
		11	1.120 (28.45)	A19499-ND	.75	17.01	1-770602-1
		12	1.220 (30.99)	A19500-ND	.82	18.55	1-770602-2
		13	1.320 (33.53)	A19510-ND	.89	20.10	1-770602-3
		14	1.420 (36.07)	A19511-ND	.96	21.65	1-770602-4
		15	1.520 (38.61)	A23961-ND	1.02	23.19	1-770602-5
CST-100 Crimp Contact (26-22 AWG)							
4	Tin Plated, Loose	—	—	A19520-ND	2.09/25	3.71/50	770666-1
	Gold Plated, Loose	—	—	A23962-ND	12.43/25	22.09/50	770666-2
	Gold Plated, Strip	—	—	A23962CT-ND	28.76/100	131.81/500	770601-2
	Gold Plated, Strip	—	—	A23962TR-ND	790.85/5,500		770601-2
LED Receptacles (mate with .36-.51mm diameter posts), .100" (2.54mm) Centers							
1	Closed End with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	5	.500 (12.70)	A23920-ND	.28	6.30	641535-5
		6	.600 (15.24)	A23921-ND	.30	6.73	641535-6
	Closed End with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	8	.800 (20.32)	A23923-ND	.40	8.95	641534-8
	Feed-Thru with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	8	.800 (20.32)	A23924-ND	.40	8.95	641653-8
LED Receptacles (mate with .36-.51mm diameter posts), .100" (2.54mm) Centers RoHS Compliant							
1	Closed End with Lock, without Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A30831-ND	.18	2.55	3-641537-2
		3	.300 (7.62)	A30832-ND	.17	2.98	3-641537-3
	Feed-Thru with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A30835-ND	.18	4.02	3-641654-2
		3	.300 (7.62)	A30836-ND	.20	4.49	3-641654-3
	Closed End with Lock, without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A31101-ND	.19	2.45	3-641536-2
		3	.300 (7.62)	A31102-ND	.20	2.98	3-641536-3
	Closed End with Lock, without Polarizing Tabs, 24 AWG White, Tin Plated	2	.200 (5.08)	A30829-ND	.18	2.55	3-641535-2
		3	.300 (7.62)	A30830-ND	.20	2.98	3-641535-3

Fig.	Description	Circuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing 1	25	AMP Part No.
1	Feed-Thru with Lock, without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.200 (5.08)	A30837-ND	.18	4.19	3-641655-2
		3	.300 (7.62)	A30838-ND	.21	4.67	3-641655-3
1A	Closed End with Lock, with Polarizing Tabs, 24 AWG, White, Tin Plated	2	.200 (5.08)	A30843-ND	.19	2.45	3-644795-2
1	Feed-Thru with Lock, without Polarizing Tabs, 28 AWG Green, Tin Plated	2	.200 (5.08)	A30839-ND	.18	4.06	3-641656-2
		3	.300 (7.62)	A30840-ND	.20	4.49	3-641656-3
	Closed End with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A30827-ND	.18	2.55	3-641534-2
		3	.300 (7.62)	A30828-ND	.17	2.98	3-641534-3
	Feed-Thru with Lock, without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.200 (5.08)	A30833-ND	.19	4.20	3-641653-2
		3 -	.300 (7.62)	A30834-ND	.21	4.64	3-641653-3
Replacement LED Contacts - RoHS Compliant							
2	28 AWG, Tin Plated	—	—	A31106-ND	1.93/25	3.43/50	641646-1
	26 AWG, Tin Plated	—	—	A31105-ND	1.93/25	3.43/50	641645-1
	24 AWG, Tin Plated	—	—	A31104-ND	1.93/25	3.43/50	641644-1
	22 AWG, Tin Plated	—	—	A31103-ND	1.93/25	3.43/50	641643-1
Keying Plugs with Carrier Strip							
5	10 Plugs per Strip	—	—	A19310-ND	.63	.58	641994-1
Accessories, .100							
6	Closed End, Strain Relief Covers, White	2	.200 (5.08)	A19230-ND	.36	8.19	643075-2
		3	.300 (7.62)	A19231-ND	.43	9.57	643075-3
		4	.400 (10.16)	A19232-ND	.40	8.91	643075-4
		5	.500 (12.70)	A19233-ND	.43	9.72	643075-5
		6	.600 (15.24)	A19234-ND	.41	9.24	643075-6
		7	.700 (17.78)	A19235-ND	.44	9.88	643075-7
		8	.800 (20.32)	A19236-ND	1.23	27.62	643075-8
		9	.900 (22.86)	A19237-ND	1.23	27.72	643075-9
		10	1.000 (25.40)	A19238-ND	1.24	27.81	1-643075-0
		11	1.100 (27.94)	A19239-ND	1.24	27.91	1-643075-1
		12	1.200 (30.48)	A19240-ND	1.24	28.01	1-643075-2
		13	1.300 (33.02)	A19241-ND	1.19	26.70	1-643075-3
		14	1.400 (35.56)	A19242-ND	1.25	28.20	1-643075-4
		15	1.500 (38.10)	A23892-ND	1.26	28.30	1-643075-5
7	Closed End, Dust Covers, White	2	—	A19250-ND	.08	1.72	640550-2
		3	—	A19251-ND	.28	2.12	640550-3
		4	—	A19252-ND	.29	4.55	640550-4
		5	—	A19253-ND	.28	3.03	640550-5
		6	—	A19254-ND	.29	5.94	640550-6
		7	—	A19255-ND	.29	6.63	640550-7
		8	—	A19256-ND	.33	7.41	640550-8
		9	—	A19257-ND	.36	8.05	640550-9
		10	—	A19258-ND	.39	8.68	1-640550-0
		11	—	A19259-ND	.41	9.32	1-640550-1
		12	—	A19260-ND	.46	10.38	1-640550-2
		13	—	A19261-ND	.48	10.90	1-640550-3
		14	—	A19262-ND	.52	11.71	1-640550-4
		15	—	A23893-ND	.55	12.37	1-640550-5
8	Feed-Thru, Strain Relief Covers, White	2	.200 (5.08)	A19270-ND	.55	12.35	643077-2
		3	.300 (7.62)	A19271-ND	.19	4.19	643077-3
		4	.400 (10.16)	A19272-ND	.25	5.58	643077-4
		5	.500 (12.70)	A19273-ND	.61	13.80	643077-5
		6	.600 (15.24)	A19274-ND	.67	15.05	643077-6
		7	.700 (17.78)	A19275-ND	.69	15.61	643077-7
		8	.800 (20.32)	A19276-ND	.79	17.84	643077-8
		9	.900 (22.86)	A19277-ND	1.32	29.76	643077-9
		10	1.000 (25.40)	A19278-ND	1.24	27.81	1-643077-0
		11	1.100 (27.94)	A19279-ND	1.24	27.91	1-643077-1
		12	1.200 (30.48)	A19280-ND	1.24	28.01	1-643077-2
		13	1.300 (33.02)	A19281-ND	1.25	28.11	1-643077-3
		14	1.400 (35.56)	A19282-ND	1.25	28.20	1-643077-4
		15	1.500 (38.10)	A23894-ND	1.26	28.30	1-643077-5
9	Feed-Thru, Dust Covers White	3	—	A19291-ND	.28	2.12	640642-3
		4	—	A19292-ND	.28	2.62	640642-4
		5	—	A19293-ND	.28	3.03	640642-5
		6	—	A19294-ND	.29	5.94	640642-6
		7	—	A19295-ND	.29	6.63	640642-7
		8	—	A19296-ND	.33	7.41	640642-8

† UL94V-0 - Black Housing

(Continued)

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
9	Feed-Thru, Dust Covers, White	9	—	A19297-ND	.36	8.05	640642-9
		10	—	A19298-ND	.39	8.68	1-640642-0
		11	—	A19299-ND	.41	9.32	1-640642-1
		12	—	A19300-ND	.46	10.38	1-640642-2
		13	—	A19301-ND	.48	10.90	1-640642-3
		14	—	A19302-ND	.52	11.71	1-640642-4
		15	—	A23895-ND	.55	12.37	1-640642-5
Post Headers, .100" (2.54mm) Centers (.200" (5.08mm) Wide Base)							
10	Straight Post .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1911-ND	.28	5.33	640452-2
		3	.300 (7.62)	A19330-ND	.29	4.30	640452-3
		4	.400 (10.16)	A1912-ND	.32	7.25	640452-4
		5	.500 (12.70)	A19331-ND	.40	9.07	640452-5
		6	.600 (15.24)	A1913-ND	.44	9.89	640452-6
		7	.700 (17.78)	A19332-ND	.51	11.54	640452-7
		8	.800 (20.32)	A1914-ND	.59	13.19	640452-8
		9	.900 (22.86)	A19333-ND	.57	12.90	640452-9
		10	1.000 (25.40)	A1915-ND	.73	16.49	1-640452-0
		15	1.500 (38.10)	A24931-ND	1.37	30.92	1-640452-5
11	Right Angle Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1916-ND	.22	2.98	640453-2
		3	.300 (7.62)	A19340-ND	.29	5.66	640453-3
		4	.400 (10.16)	A1917-ND	.34	7.55	640453-4
		5	.500 (12.70)	A19341-ND	.42	9.43	640453-5
		6	.600 (15.24)	A1918-ND	.46	10.29	640453-6
		7	.700 (17.78)	A19342-ND	.53	12.00	640453-7
		8	.800 (20.32)	A1919-ND	.53	11.93	640453-8
		9	.900 (22.86)	A19343-ND	.69	15.43	640453-9
		10	1.000 (25.40)	A1920-ND	.76	17.15	1-640453-0
		12	1.200 (30.48)	A23927-ND	.91	20.58	1-640453-2
		15	1.500 (38.10)	A23896-ND	3.95	88.92	1-640453-5
Narrow Base Post Headers, .100" (2.54mm) Centers (2.34mm Wide Base)							
10	Straight Post, .64 (.025) Square, without Retentive Legs, Tin Plated	6	.588 (14.94)	A19354-ND	.35	7.82	644456-6
		8	.788 (20.02)	A19356-ND	.73	16.49	644456-8
		2	.188 (4.78)	A31112-ND	.28	3.92	3-644456-2
	RoHS Compliant Straight Post, .64 (.025) Square, without Retentive Legs, Tin Plated	3	.288 (7.32)	A31113-ND	.28	4.84	3-644456-3
		4	.388 (9.86)	A31114-ND	.28	6.45	3-644456-4
		5	.488 (12.40)	A31115-ND	.36	8.06	3-644456-5
		6	.588 (14.94)	A31116-ND	.39	8.79	3-644456-6
		7	.688 (17.48)	A31117-ND	.45	10.26	3-644456-7
		8	.788 (20.02)	A31118-ND	.52	11.73	3-644456-8
		9	.888 (22.56)	A31119-ND	.58	13.19	3-644456-9
		10	.988 (25.10)	A30844-ND	.73	16.49	4-644456-0
		11	1.088 (27.64)	A30845-ND	.81	18.14	4-644456-1
		12	1.188 (30.18)	A30846-ND	.88	19.79	4-644456-2
		13	1.288 (32.72)	A30847-ND	.95	21.44	4-644456-3
		14	1.388 (35.26)	A30848-ND	1.03	23.09	4-644456-4
	Straight Post, .64 (.025) Square, with Retentive Legs Tin Plated	12	1.200 (30.48)	A19380-ND	2.68	60.19	1-644695-2
	RoHS Compliant Straight Post, .64 (.025) Square, with Retentive Legs Tin Plated	2	.200 (5.08)	A30916-ND	.22	4.86	3-644695-2
		3	.300 (7.62)	A30917-ND	.23	5.20	3-644695-3
		4	.400 (10.16)	A30918-ND	.35	7.98	3-644695-4
		5	.500 (12.70)	A30919-ND	.44	9.97	3-644695-5
		6	.600 (15.24)	A30920-ND	.48	10.88	3-644695-6
		7	.700 (17.78)	A30921-ND	.56	12.70	3-644695-7
		8	.800 (20.32)	A30922-ND	.64	14.51	3-644695-8
		9	.900 (22.86)	A30923-ND	.73	16.32	3-644695-9
		10	1.000 (25.40)	A30869-ND	.81	18.14	4-644695-0
		11	1.100 (27.94)	A30870-ND	.89	19.95	4-644695-1
		12	1.200 (30.48)	A30871-ND	2.68	60.19	4-644695-2
		13	1.300 (33.02)	A30872-ND	1.05	23.58	4-644695-3
		14	1.400 (35.56)	A30873-ND	1.13	25.39	4-644695-4
11	Right Angle Post, .64 (.025) Square, without Retentive Legs, Tin Plated	14	1.400 (35.56)	A19402-ND	1.33	30.01	1-644457-4
	RoHS Compliant Right Angle Post, .64 (.025) Square, without Retentive Legs, Tin Plated	2	.200 (5.08)	A30884-ND	.17	3.77	3-644457-2
		3	.300 (7.62)	A30885-ND	.22	4.92	3-644457-3
		4	.400 (10.16)	A30886-ND	.34	7.55	3-644457-4
		5	.500 (12.70)	A30887-ND	.42	9.43	3-644457-5
		6	.600 (15.24)	A30888-ND	.46	10.29	3-644457-6
		7	.700 (17.78)	A30889-ND	1.48	33.20	3-644457-7
		8	.800 (20.32)	A30890-ND	.61	13.72	3-644457-8
		9	.900 (22.86)	A30891-ND	.69	15.43	3-644457-9
		10	1.000 (25.40)	A30849-ND	.76	17.15	4-644457-0

Fig.	Description	Cir-cuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
11	***RoHS Compliant*** Right Angle Post, .64 (.025) Square, without Retentive Legs, Tin Plated	11	1.100 (27.94)	A30850-ND	.84	18.86	4-644457-1
		12	1.200 (30.48)	A30851-ND	.91	20.58	4-644457-2
		13	1.300 (33.02)	A30852-ND	.99	22.29	4-644457-3
		14	1.400 (35.56)	A30853-ND	1.07	24.01	4-644457-4
11	Right Angle Post .64 (.025) Square with Retentive Legs, Tin Plated	14	1.400 (35.56)	A19422-ND	1.47	33.01	1-644694-4
	RoHS Compliant Right Angle Post, .64 (.025) Square, with Retentive Legs, Tin Plated	2	.200 (5.08)	A30908-ND	.16	3.61	3-644694-2
		3	.300 (7.62)	A30909-ND	.24	5.41	3-644694-3
		4	.400 (10.16)	A30910-ND	.37	8.30	3-644694-4
		5	.500 (12.70)	A30911-ND	.46	10.38	3-644694-5
		6	.600 (15.24)	A30 912-ND	.50	11.32	3-644694-6
		7	.700 (17.78)	A30913-ND	.59	13.20	3-644694-7
		8	.800 (20.32)	A30914-ND	.67	15.09	3-644694-8
		9	.900 (22.86)	A30915-ND	.75	16.98	3-644694-9
		10	1.000 (25.40)	A30864-ND	.84	18.86	4-644694-0
		11	1.100 (27.94)	A30865-ND	.92	20.75	4-644694-1
		12	1.200 (30.48)	A30866-ND	1.01	22.64	4-644694-2
		13	1.300 (33.02)	A30867-ND	1.09	24.52	4-644694-3
		14	1.400 (35.56)	A30868-ND	1.17	26.41	4-644694-4
Polarized Headers, .100" (2.54mm) Centers							
12A	***RoHS Compliant*** Straight Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A19423-ND	.28	1.82	640454-2
		3	.300 (7.62)	A19430-ND	.28	2.51	640454-3
		4	.400 (10.16)	A19431-ND	.28	3.34	640454-4
		5	.500 (12.70)	A19432-ND	.29	4.06	640454-5
		6	.600 (15.24)	A19433-ND	.29	4.60	640454-6
		7	.700 (17.78)	A19434-ND	.29	5.21	640454-7
		8	.800 (20.32)	A19435-ND	.29	5.52	640454-8
		9	.900 (22.86)	A19436-ND	.73	16.32	640454-9
		10	1.000 (25.40)	A19437-ND	.29	6.62	1-640454-0
		11	1.100 (27.94)	A19438-ND	.89	19.95	1-640454-1
		12	1.200 (30.48)	A19439-ND	.45	10.03	1-640454-2
		13	1.300 (33.02)	A19440-ND	1.05	23.58	1-640454-3
		14	1.400 (35.56)	A19441-ND	1.13	25.39	1-640454-4
		15	1.500 (38.10)	A23929-ND	1.51	34.01	1-640454-5
	Straight Post, .64 (.025) Square, 30µ Gold Plated	13	1.300 (33.02)	A23907-ND	3.10	69.70	1-641213-3
	RoHS Compliant Straight Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30770-ND	.55	12.33	3-641213-2
		3	.300 (7.62)	A30771-ND	.85	19.05	3-641213-3
		4	.400 (10.16)	A30772-ND	1.05	23.71	3-641213-4
		5	.500 (12.70)	A30773-ND	1.00	22.58	3-641213-5
		6	.600 (15.24)	A30774-ND	1.44	32.51	3-641213-6
		7	.700 (17.78)	A30775-ND	1.61	36.12	3-641213-7
		8	.800 (20.32)	A30776-ND	1.00	22.51	3-641213-8
		9	.900 (22.86)	A30777-ND	2.02	45.52	3-641213-9
		10	1.000 (25.40)	A30747-ND	2.11	47.41	4-641213-0
		11	1.100 (27.94)	A30748-ND	2.44	55.00	4-641213-1
		12	1.200 (30.48)	A30749-ND	2.57	57.84	4-641213-2
		13	1.300 (33.02)	A30750-ND	2.82	63.53	4-641213-3
		14	1.400 (35.56)	A30751-ND	2.99	67.32	4-641213-4
		15	1.500 (38.10)	A30752-ND	3.08	69.24	4-641213-5
13A	***RoHS Compliant*** Right Angle Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A19450-ND	.28	1.82	640455-2
		3	.300 (7.62)	A19451-ND	.28	2.51	640455-3
		4	.400 (10.16)	A19452-ND	.28	3.34	640455-4
		5	.500 (12.70)	A19453-ND	.29	4.06	640455-5
		6	.600 (15.24)	A19454-ND	.29	4.60	640455-6
		7	.700 (17.78)	A19455-ND	.29	5.21	640455-7
		8	.800 (20.32)	A19456-ND	.29	5.52	640455-8
		9	.900 (22.86)	A19457-ND	.73	16.32	640455-9
		10	1.000 (25.40)	A19458-ND	.29	6.62	1-640455-0
		11	1.100 (27.94)	A19459-ND	.89	19.95	1-640455-1
		12	1.200 (30.48)	A19460-ND	.45	10.03	1-640455-2
		13	1.300 (33.02)	A19461-ND	1.05	23.58	1-640455-3
		14	1.400 (35.56)	A19462-ND	1.13	25.39	1-640455-4
		15	1.500 (38.10)	A23932-ND	1.51	34.01	1-640455-5
	Right Angle Post, .64 (.025) Square, 30µ Gold Plated	3	.300 (7.62)	A23911-ND	1.41	31.77	641214-3
		12	1.200 (30.48)	A23919-ND	3.14	70.64	1-641214-2
		13	1.300 (33.02)	A24927-ND	3.43	77.28	1-641214-3
		15	1.500 (38.10)	A24929-ND	3.86	86.86	1-641214-5
	RoHS Compliant Right Angle Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30778-ND	.93	20.86	3-641214-2
		3	.300 (7.62)	A30779-ND	1.26	28.45	3-641214-3
		4	.400 (10.16)	A30780-ND	1.56	35.08	3-641214-4
		5	.500 (12.70)	A30781-ND	1.81	40.77	3-641214-5
		6	.600 (15.24)	A30782-ND	2.07	46.46	3-641214-6

† UL94V-0 - Black Housing

(Continued)

Fig.	Description	Circuits	Dimension "A" Inch (mm)	Digi-Key Part No.	Pricing		AMP Part No.
					1	25	
13A	***RoHS Compliant*** Right Angle Post, .64 (.025) Square, 30µ Gold Plated	7	.700 (17.7 8)	A30783-ND	2.23	50.26	3-641214-7
		8	.800 (20.32)	A30784-ND	1.00	22.51	3-641214-8
		9	.900 (22.86)	A30785-ND	2.44	55.00	3-641214-9
		10	1.000 (25.40)	A30753-ND	2.55	57.37	4-641214-0
		11	1.100 (27.94)	A30754-ND	2.66	59.74	4-641214-1
		12	1.200 (30.48)	A30755-ND	2.87	64.48	4-641214-2
		13	1.300 (33.02)	A30756-ND	3.16	71.12	4-641214-3
		14	1.400 (35.56)	A30757-ND	3.29	73.96	4-641214-4
		15	1.500 (38.10)	A30758-ND	3.33	74.83	4-641214-5
Post Headers, .100” (2.54mm) Centers, Friction Lock Header							
12B	***RoHS Compliant*** Straight Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1921-ND	.28	1.82	640456-2
		3	.300 (7.62)	A19470-ND	.28	2.51	640456-3
		4	.400 (10.16)	A1922-ND	.28	3.34	640456-4
		5	.500 (12.70)	A19471-ND	.29	4.06	640456-5
		6	.600 (15.24)	A1923-ND	.29	4.60	640456-6
		7	.700 (17.78)	A19472-ND	.29	5.21	640456-7
		8	.800 (20.32)	A1924-ND	.29	5.52	640456-8
		9	.900 (22.86)	A19473-ND	.73	16.32	640456-9
		10	1.000 (25.40)	A1925-ND	.29	6.62	1-640456-0
		11	1.100 (27.94)	A19474-ND	.89	19.95	1-640456-1
		12	1.200 (30.48)	A19475-ND	.45	10.03	1-640456-2
		13	1.300 (33.02)	A19476-ND	1.05	23.58	1-640456-3
		14	1.400 (35.56)	A19477-ND	.89	20.08	1-640456-4
		15	1.500 (38.10)	A24930-ND	1.51	34.01	1-640456-5
		16	1.600 (40.64)	A29106-ND	1.61	36.28	1-640456-6
		20	2.000 (50.80)	A29104-ND	1.75	39.43	2-640456-0
		24	2.400 (60.96)	A29105-ND	2.42	54.42	2-640456-4
	Straight Post, .64 (.025) Square, 30µ Gold Plated	3	.300 (7.62)	A24933-ND	.79	17.75	641215-3
	RoHS Compliant Straight Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30786-ND	.29	6.61	3-641215-2
		3	.300 (7.62)	A30787-ND	.50	11.21	3-641215-3
		4	.400 (10.16)	A30788-ND	1.04	23.48	3-641215-4
		5	.500 (12.70)	A30789-ND	1.36	30.70	3-641215-5
		6	.600 (15.24)	A30790-ND	1.53	34.32	3-641215-6
		7	.700 (17.78)	A30791-ND	1.69	37.93	3-641215-7
		8	.800 (20.32)	A30792-ND	1.00	22.51	3-641215-8
		9	.900 (22.86)	A30793-ND	2.01	45.15	3-641215-9
		10	1.000 (25.40)	A30759-ND	2.13	47.86	4-641215-0
		11	1.100 (27.94)	A30760-ND	2.45	55.09	4-641215-1
		12	1.200 (30.48)	A30761-ND	2.57	57.80	4-641215-2
		14	1.400 (35.56)	A30762-ND	3.01	67.73	4-641215-4
		15	1.500 (38.10)	A30763-ND	3.29	74.05	4-641215-5
13B	***RoHS Compliant*** Right Angle Post, .64 (.025) Square, Tin Plated	2	.200 (5.08)	A1926-ND	.28	1.82	640457-2
		3	.300 (7.62)	A19480-ND	.28	2.51	640457-3
		4	.400 (10.16)	A1927-ND	.28	3.34	640457-4
		5	.500 (12.70)	A19481-ND	.29	4.06	640457-5
		6	.600 (15.24)	A1928-ND	.29	4.60	640457-6
		7	.700 (17.78)	A19482-ND	.29	5.21	640457-7
		8	.800 (20.32)	A1929-ND	.29	5.52	640457-8
		9	.900 (22.86)	A19483-ND	.73	16.32	640457-9
		10	1.000 (25.40)	A1930-ND	.29	6.62	1-640457-0
		11	1.100 (27.94)	A19484-ND	.89	19.95	1-640457-1
		12	1.200 (30.48)	A19485-ND	.45	10.03	1-640457-2
		13	1.300 (33.02)	A19486-ND	1.05	23.58	1-640457-3
		14	1.400 (35.56)	A19487-ND	1.13	25.39	1-640457-4
	Right Angle Post, .64 (.025) Square, 30µ Gold Plated	5	.500 (12.70)	A24946-ND	1.69	37.93	641216-5
		10	1.000 (25.40)	A24950-ND	2.37	53.28	1-641216-0
		15	1.500 (38.10)	A24955-ND	4.87	109.66	1-641216-5
	RoHS Compliant Right Angle Post, .64 (.025) Square, 30µ Gold Plated	2	.200 (5.08)	A30794-ND	.84	19.01	3-641216-2
		3	.300 (7.62)	A30795-ND	.69	15.51	3-641216-3
		4	.400 (10.16)	A30796-ND	1.41	31.74	3-641216-4
		5	.500 (12.70)	A30797-ND	1.69	37.93	3-641216-5
		6	.600 (15.24)	A30798-ND	1.85	41.54	3-641216-6
		7	.700 (17.78)	A30799-ND	1.93	43.35	3-641216-7
		8	.800 (20.32)	A30800-ND	1.00	22.51	3-641216-8
		9	.900 (22.86)	A30801-ND	2.13	47.86	3-641216-9
		10	1.000 (25.40)	A30764-ND	2.37	53.28	4-641216-0
		11	1.100 (27.94)	A30765-ND	2.57	57.80	4-641216-1
		12	1.200 (30.48)	A30766-ND	3.16	71.04	4-641216-2
		13	1.300 (33.02)	A30767-ND	3.05	68.64	4-641216-3
		14	1.400 (35.56)	A30768-ND	3.25	73.15	4-641216-4
		15	1.500 (38.10)	A30769-ND	3.33	74.83	4-641216-5
Shrouded Headers, .100” (2.54mm)							
14	Straight Post .64 (.025) Square with Pegs, Tin Plated	7	—	A23930-ND	1.42	31.86	644486-7
		11	—	A23936-ND	3.00	67.60	1-644486-1
		12	—	A23937-ND	3.28	73.74	1-644486-2
		13	—	A23938-ND	3.55	79.89	1-644486-3
		14	—	A23939-ND	3.82	86.04	1-644486-4
14	***RoHS Compliant*** Straight Post .64 (.025) Square with Pegs, Tin Plated	2	—	A30892-ND	.46	10.32	2-644486-2
		3	—	A30893-ND	.52	11.71	2-644486-3
		4	—	A30894-ND	.89	20.03	2-644486-4
		5	—	A30895-ND	1.11	25.04	2-644486-5
		6	—	A30896-ND	1.21	27.31	2-644486-6
		7	—	A30897-ND	1.42	31.86	2-644486-7
		8	—	A30898-ND	.72	16.21	2-644486-8
		9	—	A30899-ND	3.50	78.81	2-644486-9
		10	—	A30854-ND	2.88	64.81	3-644486-0
		11	—	A30855-ND	2.23	50.07	3-644486-1
		12	—	A30856-ND	2.43	54.63	3-644486-2
		13	—	A30857-ND	2.63	59.18	3-644486-3
		14	—	A30858-ND	2.83	63.73	3-644486-4
	Straight Post .64 (.025) Square without Pegs, Tin Plated	5	—	A23825-ND	1.50	33.80	644861-5
		6	—	A23858-ND	1.21	27.31	644861-6
		7	—	A23859-ND	1.35	30.27	644861-7
		9	—	A23860-ND	3.50	78.81	644861-9
		13	—	A23864-ND	3.55	79.89	1-644861-3
		14	—	A23865-ND	3.82	86.04	1-644861-4
	RoHS Compliant Straight Post .64 (.025) Square without Pegs, Tin Plated	2	—	A30931-ND	.54	12.20	2-644861-2
		3	—	A30932-ND	.77	17.43	2-644861-3
		4	—	A30933-ND	.89	20.03	2-644861-4
		5	—	A30934-ND	1.11	25.04	2-644861-5
		6	—	A30935-ND	1.21	27.31	2-644861-6
		7	—	A30936-ND	1.35	30.27	2-644861-7
		8	—	A30937-ND	.72	16.21	2-644861-8
		9	—	A30938-ND	3.50	78.81	2-644861-9
		10	—	A30879-ND	2.02	45.52	3-644861-0
		11	—	A30880-ND	2.23	50.07	3-644861-1
		12	—	A30881-ND	2.43	54.63	3-644861-2
		13	—	A30882-ND	2.63	59.18	3-644861-3
		14	—	A30883-ND	2.83	63.73	3-644861-4
15A	Right-Angle Post, .64 (.025) Square, Front Bend without Pegs, Tin Plated	9	.984 (24.99)	A23873-ND	2.54	57.25	644488-9
	RoHS Compliant Right-Angle Post, .64 (.025) Square, Front Bend without Pegs, Tin Plated	2	.284 (7.21)	A30900-ND	.46	10.37	2-644488-2
		3	.384 (9.75)	A30901-ND	.69	15.55	2-644488-3
		4	.484 (12.29)	A30902-ND	.92	20.73	2-644488-4
		5	.584 (14.83)	A30903-ND	1.09	24.62	2-644488-5
		6	.684 (17.37)	A30904-ND	1.26	28.27	2-644488-6
		7	.784 (19.91)	A30905-ND	1.47	32.98	2-644488-7
		8	.884 (22.45)	A30906-ND	1.68	37.69	2-644488-8
		9	.984 (24.99)	A30907-ND	2.54	57.25	2-644488-9
		10	1.084 (27.53)	A30859-ND	2.98	67.08	3-644488-0
		11	1.184 (30.07)	A30860-ND	2.30	51.83	3-644488-1
		12	1.284 (32.61)	A30861-ND	2.51	56.54	3-644488-2
		13	1.384 (35.15)	A30862-ND	2.72	61.25	3-644488-3
		14	1.484 (37.69)	A30863-ND	2.95	66.28	3-644488-4
15B	Right-Angle Post, .64 (.025) Square, Rear Bend without Pegs, Tin Plated	3	.384 (9.75)	A23880-ND	.93	20.99	644803-3
		6	.684 (17.37)	A23883-ND	1.26	28.27	644803-6
		7	.784 (19.91)	A23884-ND	1.92	43.27	644803-7
		9	.984 (24.99)	A23886-ND	2.54	57.25	644803-9
		11	1.184 (30.07)	A23888-ND	3.11	69.97	1-644803-1
		13	1.384 (35.15)	A23890-ND	3.67	82.69	1-644803-3
		14	1.484 (37.69)	A23891-ND	3.98	89.48	1-644803-4
	RoHS Compliant Right-Angle Post, .64 (.025) Square, Rear Bend without Pegs, Tin Plated	2	.284 (7.21)	A30924-ND	.46	10.37	2-644803-2
		3	.384 (9.75)	A30925-ND	.69	15.55	2-644803-3
		4	.484 (12.29)	A30926-ND	.92	20.73	2-644803-4
		5	.584 (14.83)	A30927-ND	.58	13.11	2-644803-5
		6	.684 (17.37)	A30928-ND	1.26	28.27	2-644803-6
		7	.784 (19.91)	A30929-ND	1.92	43.27	2-644803-7
		9	.984 (24.99)	A30830-ND	.20	2.98	2-644803-9
		10	1.084 (27.53)	A30874-ND	2.09	47.11	3-644803-0
		11	1.184 (30.07)	A30875-ND	2.30	51.83	3-644803-1
		12	1.284 (32.61)	A30876-ND	2.51	56.54	3-644803-2
		13	1.384 (35.15)	A30877-ND	2.72	61.25	3-644803-3
		14	1.484 (37.69)	A30878-ND	2.95	66.28	3-644803-4

Digi-Key Part No.	Description	Price	AMP Part No.
A9982-ND	T-Handle Tool for MTA .100” (2.54mm)	18.29/1	59803-1
A9973-ND	Crimp Die for MTA .100” (2.54mm) Feed-Thru Receptacles (Must be used with handle A2031-ND) use wi th Fig. 1	456.75/1	58442-1
A1998-ND	Crimp Die for MTA .100” (2.54mm) IDC Closed End Receptacles (Must be used with handle A2031-ND) use with Fig. 1	122.85/1	58246-1
A2031-ND	Manual Pistol Grip Handle for Metal and All-Plastic Shell Connectors. (Must order crimp die separately) use with Fig. 1	58.28/1	58074-1
A19530-ND	Crimp Tool for CST-100 with Die	210.59/1	58517-1
A19531-ND	Die Set for CST-100 (use with A9996-ND)	168.17/1	58517-2
A9996-ND	Crimp Tool Handle for CST-100	66.00/1	354940-1

† UL94V-0 - Black Housing

MTA .156" (3.96mm) Receptacles and Post Headers

IDC CONNECTORS: • Wire-to-post connectors preloaded with dual beam contacts • Connectors and headers are end-to-end stackable • Connectors preloaded with IDC contacts • All contacts are slotted for insulation displacement (IDC) terminal technique • Contacts are lubricated to prevent fretting corrosion • Meets the material requirements of Table 23.1 of UL1410 Standards for Television Receiver and Video Products (wire-to-post connectors only) • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 **PERFORMANCE DATA: Voltage Rating:** 250VAC **Current Rating:** 7A **Low-Level Resistance:** 3mΩ maximum initial **Dielectric Withstanding Voltage:** 1250VAC/1 minute **Insulation Resistance:** 5000MΩ min. initial **Operating Temperature:** -55°C ~ 105°C **MATERIAL AND FINISH – Housing:** UL94V-2 rated, type 6/6 nylon (24AWG - White; 22AWG - Red: 20AWG - Yellow; 18AWG - Orange) **Contacts:** Phosphor bronze, post tin plated, 30μ

REPLACEMENT IDC CONTACTS: MATERIAL AND FINISH: Phosphor bronze, post tin plated; 30μ

SL-156 CRIMP CONTACTS AND HOUSINGS: • High current rating • Mates with MTA and similar competitive notched headers • Rugged wire-to-board interconnection to mate with .045 square or round post headers • Housing made of flame retardant 6/6 nylon • Connectors are end-to-end stackable • Wire-to-board system offers polarization with friction lock for positive mating • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 **PERFORMANCE DATA: Voltage Rating:** 250VAC **Current Rating:** 10A maximum @ 250VAC **Low-Level Resistance:** 3.0mΩ maximum initial **Dielectric Withstanding Voltage:** 2000VAC/1 minute **Insulation Resistance:** 1000MΩ minimum initial **Operating Temperature:** -55°C ~ 105°C **MATERIAL AND FINISH (CONTACTS):** Bright tin plated brass or phosphor bronze; .012 (0.3) pre-tin or 30μ over nickel **Wire Range:** 18-24AWG **Maximum Insulation Diameter:** .110 (2.79mm)

KEYING PLUG WITH CARRIER STRIP (10 plugs per strip): MATERIAL: UL94V-2 rated, type 6/6 nylon, natural color

POST HEADERS: Material For Housing: Polyester 94V-0 rated, white **Posts:** Copper alloy

Fig. 1 – Discrete Wire IDC

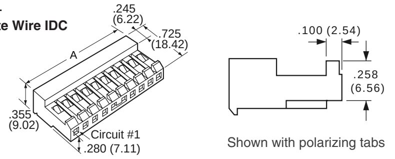

Shown with polarizing tabs

Fig. 2

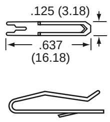

Fig. 3

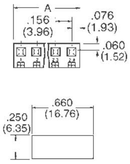

Fig. 4

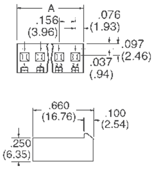

Fig. 5

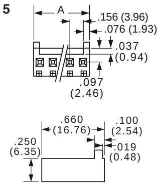

Fig. 6 – High Force

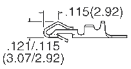

Fig. 7 – Low Force

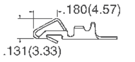

Fig. 8 – Hooded

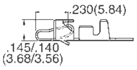

Fig. 9 – Strain Relief Cover,Closed End

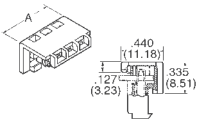

Fig. 10 – Dust Cover, Closed End

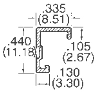

Fig. 11 – Strain Relief Cover, Feed Thru

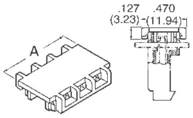

Fig. 12 – Dust Cover, Feed Thru

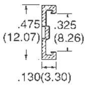

Fig. 13

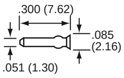

Fig. 14

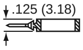

Fig. 15

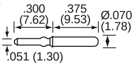

Fig. 16

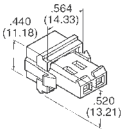

Fig. 17

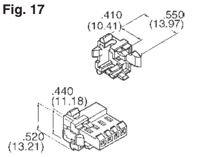

Fig. 18

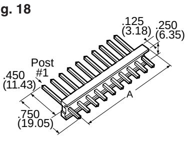

Fig. 19

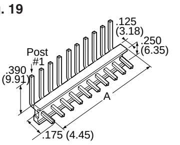

Fig. 20

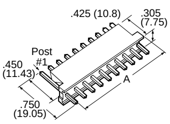

Fig. 21

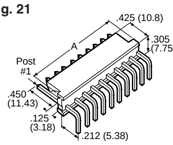

Fig. 22

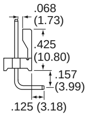

Description	Digi-Key Part No.	Price Each	AMP Part No.
Tools			
Crimp Tool with Die for SL-156 Contacts .060"-.100" Insulation Diameter	A30703-ND	551.57	91597-1
Crimp Tool with Die for SL-156 Contacts .043"-.075" Insulation Diameter	A30704-ND	551.57	91598-1
T-Handle Tool Prototype Tool for MTA .156" (3.96mm) IDC Connectors	A9981-ND	18.29	59804-1
Crimp Die for MTA .156" (3.96mm) IDC, Closed End Receptacles (Must be used with handle A2031-ND)	A1999-ND	122.85	58247-1
Crimp Die for MTA .156" (3.96mm) IDC, Feed Thru Receptacles (Must be used with handle A2031-ND)	A30528-ND	448.88	58443-1
Manual Pistol Grip Tool IDC (Must order crimp die separately)	A2031-ND	58.28	58074-1

Fig.	Description	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
	Receptacles, .156" (3.96mm) Centers						
1	***RoHS Compliant*** Closed End with Lock without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A31216-ND	.58	.53	3-640430-2
		3	.468 (11.89)	A31217-ND	.19	.15	3-640430-3
		4	.624 (15.85)	A31218-ND	.28	.26	3-640430-4
		5	.780 (19.81)	A31219-ND	.57	.52	3-640430-5
		6	.936 (23.77)	A31220-ND	.36	.33	3-640430-6
		7	1.092 (27.74)	A31221-ND	.72	.66	3-640430-7
		8	1.248 (31.7)	A31222-ND	.82	.75	3-640430-8
		9	1.404 (35.66)	A31223-ND	.93	.84	3-640430-9
		10	1.560 (39.62)	A31224-ND	1.03	.94	4-640430-0
		11	1.716 (43.59)	A31225-ND	1.13	1.03	4-640430-1
		12	1.872 (47.55)	A31226-ND	1.24	1.12	4-640430-2
		17	2.652 (67.36)	A31227-ND	.83	.75	4-640430-7
1	***RoHS Compliant*** Closed End with Lock with Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A31604-ND	.23	.21	3-643821-2
		3	.468 (11.89)	A31605-ND	.19	.15	3-643821-3
		4	.624 (15.85)	A31606-ND	.29	.27	3-643821-4
		5	.780 (19.81)	A31607-ND	.57	.52	3-64321-5
		6	.936 (23.77)	A31608-ND	.38	.35	3-64321-6
		7	1.092 (27.74)	A31609-ND	.72	.66	3-643821-7
		8	1.248 (31.7)	A31610-ND	.82	.75	3-643821-8
		9	1.404 (35.66)	A31611-ND	.93	.84	3-643821-9
		10	1.560 (39.62)	A31612-ND	1.03	.94	4-643821-0
		11	1.716 (43.59)	A31613-ND	1.13	1.03	4-643821-1
		12	1.872 (47.55)	A31614-ND	1.24	1.12	4-643821-2
		17	2.652 (67.36)	A31615-ND	.83	.75	4-643821-7
1	Closed End without Lock without Polarizing Tabs, 26 AWG Blue, Tin Plated	11	1.716 (43.59)	A26051-ND	1.53	1.39	1-640435-1
1	***RoHS Compliant*** Closed End without Lock without Polarizing Tabs, 26 AWG Blue, Tin Plated	2	.312 (7.92)	A31580-ND	.19	.15	3-640435-2
		3	.468 (11.89)	A31581-ND	.19	.15	3-640435-3
		4	.624 (15.85)	A31582-ND	.28	.26	3-640435-4
		5	.780 (19.81)	A31583-ND	.57	.52	3-640435-5
		6	.936 (23.77)	A31584-ND	.36	.33	3-640435-6
		7	1.092 (27.74)	A31585-ND	.72	.66	3-640435-7
		8	1.248 (31.7)	A31586-ND	.82	.75	3-640435-8
		9	1.404 (35.66)	A31587-ND	.93	.84	3-640435-9
		10	1.560 (39.62)	A31588-ND	1.03	.94	4-640435-0
		11	1.716 (43.59)	A31589-ND	1.13	1.03	4-640435-1
		12	1.872 (47.55)	A31590-ND	1.24	1.12	4-640435-2
		17	2.652 (67.36)	A31591-ND	.82	.75	4-640435-7
1	***RoHS Compliant*** Feed-Thru with Lock without Polarizing Tabs, 26 AWG White, Tin Plated	2	.312 (7.92)	A31592-ND	.19	.15	3-640595-2
		3	.468 (11.89)	A31593-ND	.26	.24	3-640595-3
		4	.624 (15.85)	A31594-ND	.30	.28	3-640595-4
		5	.780 (19.81)	A31595-ND	.57	.52	3-640595-5
		6	.936 (23.77)	A31596-ND	.36	.33	3-640595-6
		7	1.092 (27.74)	A31597-ND	.72	.66	3-640595-7
		8	1.248 (31.7)	A31598-ND	.82	.75	3-640595-8
		9	1.404 (35.66)	A31599-ND	.93	.84	3-640595-9
		10	1.560 (39.62)	A31600-ND	1.03	.94	4-640595-0
		11	1.716 (43.59)	A31601-ND	1.13	1.03	4-640595-1
		12	1.872 (47.55)	A31602-ND	1.24	1.12	4-640595-2
		17	2.652 (67.36)	A31603-ND	.83	.75	4-640595-7
1	Closed End with Lock without Polarizing Tabs, 24 AWG White, Tin Plated	5	.780 (19.81)	A19633-ND	1.36	1.24	640429-5
		11	1.716 (43.59)	A19639-ND	1.53	1.39	1-640429-1
1	***RoHS Compliant*** Closed End with Lock without Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A31240-ND	.28	.21	3-640429-2
		3	.468 (11.89)	A31241-ND	.19	.15	3-640429-3
		4	.624 (15.85)	A31242-ND	.28	.26	3-640429-4
		5	.780 (19.81)	A31243-ND	1.36	1.24	3-640429-5
		6	.936 (23.77)	A31244-ND	.36	.33	3-640429-6
		7	1.092 (27.74)	A31245-ND	.72	.66	3-640429-7
		8	1.248 (31.70)	A31246-ND	1.09	.99	3-640429-8
		9	1.404 (35.66)	A31247-ND	.93	.84	3-640429-9
		10	1.560 (39.62)	A31248-ND	1.03	.94	4-640429-0
		11	1.716 (43.59)	A31249-ND	1.13	1.03	4-640429-1
		12	1.872 (47.55)	A31250-ND	1.24	1.12	4-640429-2
		17	2.652 (67.36)	A31251-ND	.82	.75	4-640429-7

(Continued)

MTA .156” (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
1	***RoHS Compliant*** Closed End with Lock with Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A31643-ND	.30	.21	3-643820-2
		3	.468 (11.89)	A31644-ND	.20	.15	3-643820-3
		4	.624 (15.85)	A31645-ND	.28	.26	3-643820-4
		5	.780 (19.81)	A31646-ND	.57	.52	3-643820-5
		6	.936 (23.77)	A31647-ND	.36	.33	3-643820-6
		7	1.092 (27.74)	A31648-ND	.72	.66	3-643820-7
		8	1.248 (31.7)	A31649-ND	.82	.75	3-643820-8
		9	1.404 (35.66)	A31650-ND	.93	.84	3-643820-9
		10	1.560 (39.62)	A31651-ND	1.03	.94	4-643820-0
		11	1.716 (43.59)	A31652-ND	1.13	1.03	4-643820-1
		12	1.872 (47.55)	A31653-ND	1.24	1.12	4-643820-2
		17	2.652 (67.36)	A31654-ND	.82	.75	4-643820-7
1	Closed End without Lock without Polarizing Tabs, 24 AWG White, Tin Plated	7	1.092 (27.74)	A26063-ND	1.73	1.57	640434-7
		8	1.248 (31.7)	A26064-ND	.82	.75	640434-8
1	***RoHS Compliant*** Closed End without Lock without Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A31264-ND	.28	.15	3-640434-2
		3	.468 (11.89)	A31265-ND	.19	.15	3-640434-3
		4	.624 (15.85)	A31266-ND	.28	.26	3-640434-4
		5	.780 (19.81)	A31267-ND	.57	.52	3-640434-5
		6	.936 (23.77)	A31268-ND	.36	.33	3-640434-6
		7	1.092 (27.74)	A31269-ND	1.73	1.57	3-640434-7
		8	1.248 (31.7)	A31270-ND	.82	.75	3-640434-8
		9	1.404 (35.66)	A31271-ND	.93	.84	3-640434-9
		10	1.560 (39.62)	A31272-ND	1.03	.94	4-640434-0
		11	1.716 (43.59)	A31273-ND	1.13	1.03	4-640434-1
		12	1.872 (47.55)	A31274-ND	1.24	1.12	4-640434-2
		17	2.652 (67.36)	A31275-ND	.82	.75	4-640434-7
1	Feed-Thru with Lock without Polarizing Tabs, 24 AWG White, Tin Plated	9	1.404 (35.66)	A19727-ND	1.25	1.14	640602-9
		10	1.560 (39.62)	A19728-ND	1.39	1.26	1-640602-0
1	***RoHS Compliant*** Feed-Thru with Lock without Polarizing Tabs, 24 AWG White, Tin Plated	2	.312 (7.92)	A31628-ND	.22	.17	3-640602-2
		3	.468 (11.89)	A31629-ND	.26	.24	3-640602-3
		4	.624 (15.85)	A31630-ND	.28	.26	3-640602-4
		5	.780 (19.81)	A31631-ND	.57	.52	3-640602-5
		6	.936 (23.77)	A31632-ND	.36	.33	3-640602-6
		7	1.092 (27.74)	A31633-ND	.72	.66	3-640602-7
		8	1.248 (31.70)	A31634-ND	.82	.75	3-640602-8
		9	1.404 (35.66)	A31635-ND	.93	.84	3-640602-9
		10	1.560 (39.62)	A31636-ND	1.03	.94	4-640602-0
		11	1.716 (43.59)	A31637-ND	1.13	1.03	4-640602-1
		12	1.872 (47.55)	A31638-ND	1.24	1.12	4-640602-2
		17	2.652 (67.36)	A31639-ND	.82	.75	4-640602-7
1	Closed End with Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	6	.936 (23.77)	A19614-ND	.34	.31	640428-6
		9	1.404 (35.66)	A19617-ND	2.11	1.92	640428-9
		11	1.716 (43.59)	A19619-ND	1.53	1.39	1-640428-1
1	***RoHS Compliant*** Closed End with Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A31228-ND	.28	.21	3-640428-2
		3	.468 (11.89)	A31229-ND	.19	.15	3-640428-3
		4	.624 (15.85)	A31230-ND	.28	.26	3-640428-4
		5	.780 (19.81)	A31231-ND	.57	.52	3-640428-5
		6	.936 (23.77)	A31232-ND	.36	.33	3-640428-6
		7	1.092 (27.74)	A31233-ND	1.73	1.57	3-640428-7
		8	1.248 (31.70)	A31234-ND	.82	.75	3-640428-8
		9	1.404 (35.66)	A31235-ND	.93	.84	3-640428-9
		10	1.560 (39.62)	A31236-ND	1.03	.94	4-640428-0
		11	1.716 (43.59)	A31237-ND	1.13	1.03	4-640428-1
		12	1.872 (47.55)	A31238-ND	1.24	1.12	4-640428-2
		17	2.652 (67.36)	A31239-ND	.84	.77	4-640428-7
1	***RoHS Compliant*** Closed End with Lock with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A31276-ND	.28	.21	3-643819-2
		3	.468 (11.89)	A31277-ND	.19	.15	3-643819-3
		4	.624 (15.85)	A31278-ND	.28	.26	3-643819-4
		5	.780 (19.81)	A31279-ND	1.36	1.24	3-643819-5
		6	.936 (23.77)	A31280-ND	.36	.33	3-643819-6
		7	1.092 (27.74)	A31281-ND	1.24	1.12	3-643819-7
		8	1.248 (31.7)	A31282-ND	.82	.75	3-643819-8
		9	1.404 (35.66)	A31283-ND	.93	.84	3-643819-9
		10	1.560 (39.62)	A31284-ND	1.03	.94	4-643819-0
		11	1.716 (43.59)	A31640-ND	1.13	1.03	4-643819-1
		12	1.872 (47.55)	A31641-ND	1.24	1.12	4-643819-2
		17	2.652 (67.36)	A31642-ND	1.54	1.40	4-643819-7
1	Closed End without Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	10	1.560 (39.62)	A24001-ND	2.48	2.25	1-640433-0
1	***RoHS Compliant*** Closed End without Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A31252-ND	.28	.21	3-640433-2
		3	.468 (11.89)	A31253-ND	.19	.15	3-640433-3
		4	.624 (15.85)	A31254-ND	.28	.26	3-640433-4
		5	.780 (19.81)	A31255-ND	.57	.52	3-640433-5
		6	.936 (23.77)	A31256-ND	.36	.33	3-640433-6
		7	1.092 (27.74)	A31257-ND	.72	.66	3-640433-7
		8	1.248 (31.7)	A31258-ND	1.11	1.01	3-640433-8
		9	1.404 (35.66)	A31259-ND	.93	.84	3-640433-9
		10	1.560 (39.62)	A31260-ND	1.28	1.16	4-640433-0
		11	1.716 (43.59)	A31261-ND	1.13	1.03	4-640433-1
		12	1.872 (47.55)	A31262-ND	1.49	1.36	4-640433-2
		17	2.652 (67.36)	A31263-ND	1.37	1.25	4-640433-7
1	***RoHS Compliant*** Closed End without Lock with Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A31285-ND	.28	.21	3-644463-2
		3	.468 (11.89)	A31286-ND	.26	.24	3-644463-3
		4	.624 (15.85)	A31287-ND	.28	.26	3-644463-4
		5	.780 (19.81)	A31288-ND	.57	.52	3-644463-5
		6	.936 (23.77)	A31289-ND	.36	.33	3-644463-6
		7	1.092 (27.74)	A31290-ND	.72	.66	3-644463-7
		8	1.248 (31.7)	A31291-ND	.82	.75	3-644463-8
		9	1.404 (35.66)	A31292-ND	.93	.84	3-644463-9
		10	1.560 (39.62)	A31293-ND	1.03	.94	4-644463-0
		11	1.716 (43.59)	A31294-ND	1.13	1.03	4-644463-1
		12	1.872 (47.55)	A31295-ND	1.24	1.12	4-644463-2
1	Feed-Thru with Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	5	.780 (19.81)	A19703-ND	1.11	1.01	640601-5
		10	1.560 (39.62)	A19708-ND	2.48	2.25	1-640601-0
		11	1.716 (43.59)	A19709-ND	1.53	1.39	1-640601-1
1	***RoHS Compliant*** Feed-Thru with Lock without Polarizing Tabs, 22 AWG Red, Tin Plated	2	.312 (7.92)	A31616-ND	.70	.64	3-640601-2
		3	.468 (11.89)	A31617-ND	.26	.24	3-640601-3
		4	.624 (15.85)	A31618-ND	.29	.27	3-640601-4
		5	.780 (19.81)	A31619-ND	1.11	1.01	3-640601-5
		6	.936 (23.77)	A31620-ND	.36	.33	3-640601-6
		7	1.092 (27.74)	A31621-ND	.72	.66	3-640601-7
		8	1.248 (31.70)	A31622-ND	.82	.75	3-640601-8
		9	1.404 (35.66)	A31623-ND	.93	.84	3-640601-9
		10	1.560 (39.62)	A31624-ND	1.50	1.37	4-640601-0
		11	1.716 (43.59)	A31625-ND	1.13	1.03	4-640601-1
		12	1.872 (47.55)	A31626-ND	1.24	1.12	4-640601-2
		17	2.652 (67.36)	A31627-ND	.84	.77	4-640601-7
1	Closed End with Lock without Polarizing Tabs, 20 AWG Yellow, Tin Plated	7	1.092 (27.74)	A19595-ND	1.64	1.49	640427-7
1	***RoHS Compliant*** Closed End with Lock without Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A31308-ND	.28	.21	3-640427-2
		3	.468 (11.89)	A31309-ND	.19	.15	3-640427-3
		4	.624 (15.85)	A31310-ND	.28	.26	3-640427-4
		5	.780 (19.81)	A31311-ND	.57	.52	3-640427-5
		6	.936 (23.77)	A31312-ND	.40	.37	3-640427-6
		7	1.092 (27.74)	A31313-ND	.72	.66	3-640427-7
		8	1.248 (31.70)	A31314-ND	.82	.75	3-640427-8
		9	1.404 (35.66)	A31315-ND	1.19	1.08	3-640427-9
		10	1.560 (39.62)	A31316-ND	1.03	.94	4-640427-0
		11	1.716 (43.59)	A31317-ND	1.13	1.03	4-640427-1
		12	1.872 (47.55)	A31318-ND	1.24	1.12	4-640427-2
		17	2.652 (67.36)	A31319-ND	.84	.77	4-640427-7
1	Closed End with Lock with Polarizing Tabs, 20 AWG Yellow, Tin Plated	5	.780 (19.81)	A26099-ND	1.29	1.17	643818-5
		10	1.560 (39.62)	A26103-ND	2.48	2.25	1-643818-0
		11	1.716 (43.59)	A26104-ND	1.13	1.03	1-643818-1
		17	2.652 (67.36)	A24011-ND	1.07	.97	1-643818-7
1	***RoHS Compliant*** Closed End with Lock with Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A31363-ND	.28	.21	3-643818-2
		3	.468 (11.89)	A31364-ND	.19	.15	3-643818-3
		4	.624 (15.85)	A31365-ND	.28	.26	3-643818-4
		5	.780 (19.81)	A31366-ND	.57	.52	3-643818-5
		6	.936 (23.77)	A31367-ND	.36	.33	3-643818-6
		7	1.092 (27.74)	A31368-ND	.72	.66	3-643818-7
		8	1.248 (31.7)	A31369-ND	.82	.75	3-643818-8
		9	1.404 (35.66)	A31370-ND	.93	.84	3-643818-9
		10	1.560 (39.62)	A31671-ND	1.28	1.16	4-643818-0
		12	1.872 (47.55)	A31371-ND	1.24	1.12	4-643818-2
1	Closed End without Lock without Polarizing Tabs, 20 AWG Yellow, Tin Plated	12	1.872 (47.55)	A26113-ND	1.67	1.52	1-640432-2
		17	2.652 (67.36)	A24015-ND	.84	.77	1-640432-7

(Continued)

MTA .156" (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	***RoHS Compliant*** Closed End without Lock without Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A31332-ND	.70	.64	3-640432-2
		3	.468 (11.89)	A31333-ND	.19	.15	3-640432-3
		4	.624 (15.85)	A31334-ND	.28	.26	3-640432-4
		5	.780 (19.81)	A31335-ND	.57	.52	3-640432-5
		6	.936 (23.77)	A31336-ND	.36	.33	3-640432-6
		7	1.092 (27.74)	A31337-ND	.72	.66	3-640432-7
		8	1.248 (31.7)	A31338-ND	.82	.75	3-640432-8
		9	1.404 (35.66)	A31339-ND	.93	.84	3-640432-9
		10	1.560 (39.62)	A31340-ND	1.03	.94	4-640432-0
		11	1.716 (43.59)	A31341-ND	1.13	1.03	4-640432-1
		12	1.872 (47.55)	A31342-ND	1.24	1.12	4-640432-2
		17	2.652 (67.36)	A31343-ND	.84	.77	4-640432-7
1	Feed-Thru with Lock without Polarizing Tabs 20 AWG Yellow, Tin Plated	9	1.404 (35.66)	A19687-ND	2.23	2.02	640600-9
1	***RoHS Compliant*** Feed-Thru with Lock without Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A31655-ND	.70	.64	3-640600-2
		3	.468 (11.89)	A31656-ND	.27	.25	3-640600-3
		4	.624 (15.85)	A31657-ND	.29	.27	3-640600-4
		5	.780 (19.81)	A31658-ND	.57	.52	3-640600-5
		6	.936 (23.77)	A31659-ND	.36	.33	3-640600-6
		7	1.092 (27.74)	A31660-ND	.72	.66	3-640600-7
		8	1.248 (31.70)	A31661-ND	.82	.75	3-640600-8
		9	1.404 (35.66)	A31662-ND	1.42	1.29	3-640600-9
		10	1.560 (39.62)	A31663-ND	1.03	.94	4-640600-0
		11	1.716 (43.59)	A31664-ND	1.13	1.03	4-640600-1
		12	1.872 (47.55)	A31665-ND	1.24	1.12	4-640600-2
		17	2.652 (67.36)	A31666-ND	.84	.77	4-640600-7
1	***RoHS Compliant*** Feed-Thru with Lock with Polarizing Tabs, 20 AWG Yellow, Tin Plated	2	.312 (7.92)	A31383-ND	.28	.21	3-644466-2
		3	.468 (11.89)	A31384-ND	.27	.24	3-644466-3
		4	.624 (15.85)	A31385-ND	.29	.27	3-644466-4
		5	.780 (19.81)	A31386-ND	.57	.52	3-644466-5
		6	.936 (23.77)	A31387-ND	.36	.33	3-644466-6
		7	1.092 (27.74)	A31388-ND	.72	.66	3-644466-7
		8	1.248 (31.7)	A31389-ND	.82	.75	3-644466-8
		9	1.404 (35.66)	A31390-ND	.93	.84	3-644466-9
		10	1.560 (39.62)	A31391-ND	1.03	.94	4-644466-0
		11	1.716 (43.59)	A31392-ND	1.13	1.03	4-644466-1
		12	1.872 (47.55)	A31393-ND	1.24	1.12	4-644466-2
1	Closed End with Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	3	.468 (11.89)	A19580-ND	.28	.21	640426-3
		4	.624 (15.85)	A1952-ND	.41	.38	640426-4
1	***RoHS Compliant*** Closed End with Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A31296-ND	.28	.21	3-640426-2
		3	.468 (11.89)	A31297-ND	.28	.21	3-640426-3
		4	.624 (15.85)	A31298-ND	.41	.38	3-640426-4
		5	.780 (19.81)	A31299-ND	.57	.52	3-640426-5
		6	.936 (23.77)	A31300-ND	.36	.33	3-640426-6
		7	1.092 (27.74)	A31301-ND	.72	.66	3-640426-7
		8	1.248 (31.70)	A31302-ND	.82	.75	3-640426-8
		9	1.404 (35.66)	A31303-ND	.93	.84	3-640426-9
		10	1.560 (39.62)	A31304-ND	1.03	.94	4-640426-0
		11	1.716 (43.59)	A31305-ND	1.13	1.03	4-640426-1
		12	1.872 (47.55)	A31306-ND	1.24	1.12	4-640426-2
		17	2.652 (67.36)	A31307-ND	.83	.75	4-640426-7
1	Closed End with Lock with Polarizing Tabs, 18 AWG Orange, Tin Plated	8	1.248 (31.7)	A26124-ND	1.88	1.70	643817-8
		10	1.560 (39.62)	A26125-ND	2.35	2.13	1-643817-0
1	***RoHS Compliant*** Closed End with Lock with Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A31355-ND	.28	.21	3-643817-2
		3	.468 (11.89)	A31356-ND	.19	.15	3-643817-3
		4	.624 (15.85)	A31357-ND	.28	.26	3-643817-4
		5	.780 (19.81)	A31358-ND	.57	.52	3-643817-5
		6	.936 (23.77)	A31359-ND	.36	.33	3-643817-6
		7	1.092 (27.74)	A31360-ND	1.21	1.10	3-643817-7
		8	1.248 (31.7)	A31361-ND	.82	.75	3-643817-8
		9	1.404(35.56)	A31667-ND	1.10	1.00	3-643817-9
		10	1.560 (39.62)	A31668-ND	1.03	.94	4-643817-0
		11	1.716 (43.59)	A31362-ND	1.57	1.43	4-643817-1
		12	1.872 (47.55)	A31669-ND	1.47	1.33	4-643817-2
		17	2.652 (67.36)	A31670-ND	1.54	1.40	4-643817-7
1	Closed End without Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	17	2.652 (67.36)	A24028-ND	.83	.75	1-640431-7
1	***RoHS Compliant*** Closed End without Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A31320-ND	.28	.21	3-640431-2
		3	.468 (11.89)	A31321-ND	.19	.15	3-640431-3
		4	.624 (15.85)	A31322-ND	.28	.26	3-640431-4
		5	.780 (19.81)	A31323-ND	.57	.52	3-640431-5
		6	.936 (23.77)	A31324-ND	.36	.33	3-640431-6
		7	1.092 (27.74)	A31325-ND	.72	.66	3-640431-7
		8	1.248 (31.70)	A31326-ND	.82	.75	3-640431-8

Fig.	Description	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	***RoHS Compliant*** Closed End without Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	9	1.404 (35.66)	A31327-ND	.93	.84	3-640431-9
		10	1.560 (39.62)	A31328-ND	1.03	.94	4-640431-0
		11	1.716 (43.59)	A31329-ND	1.13	1.03	4-640431-1
		12	1.872 (47.55)	A31330-ND	1.24	1.12	4-640431-2
		17	2.652 (67.36)	A31331-ND	.83	.75	4-640431-7
1	Feed-Thru with Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	8	1.248 (31.70)	A19666-ND	1.88	1.70	640599-8
		9	1.404 (35.66)	A19667-ND	2.11	1.92	640599-9
		11	1.716 (43.59)	A19669-ND	2.72	2.47	1-640599-1
1	***RoHS Compliant*** Feed-Thru with Lock without Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A31344-ND	.28	.21	3-640599-2
		3	.468 (11.89)	A31345-ND	.26	.24	3-640599-3
		4	.624 (15.85)	A31346-ND	.29	.27	3-640599-4
		5	.780 (19.81)	A31347-ND	.57	.52	3-640599-5
		6	.936 (23.77)	A31348-ND	.36	.33	3-640599-6
		7	1.092 (27.74)	A31349-ND	1.21	1.10	3-640599-7
		8	1.248 (31.70)	A31350-ND	.82	.75	3-640599-8
		9	1.404 (35.66)	A31351-ND	.93	.84	3-640599-9
		10	1.560 (39.62)	A31352-ND	1.03	.94	4-640599-0
		11	1.716 (43.59)	A31353-ND	1.57	1.43	4-640599-1
		12	1.872 (47.55)	A31354-ND	1.24	1.12	4-640599-2
1	***RoHS Compliant*** Feed-Thru with Lock with Polarizing Tabs, 18 AWG Orange, Tin Plated	2	.312 (7.92)	A31372-ND	.28	.21	3-644465-2
		3	.468 (11.89)	A31373-ND	.26	.24	3-644465-3
		4	.624 (15.85)	A31374-ND	.29	.27	3-644465-4
		5	.780 (19.81)	A31375-ND	.57	.52	3-644465-5
		6	.936 (23.77)	A31376-ND	.36	.33	3-644465-6
		7	1.092 (27.74)	A31377-ND	.72	.66	3-644465-7
		8	1.248 (31.7)	A31378-ND	.82	.75	3-644465-8
		9	1.404 (35.66)	A31379-ND	.93	.84	3-644465-9
		10	1.560 (39.62)	A31380-ND	1.03	.94	4-644465-0
		11	1.716 (43.59)	A31381-ND	1.13	1.03	4-644465-1
		12	1.872 (47.55)	A31382-ND	1.24	1.12	4-644465-2
Replacement IDC Contacts, .156" (3.96mm) Centers — RoHS Compliant							
2	Tin Plated, 18 AWG	—	—	A31672-ND	.28	.11	640631-3
	Tin Plated, 20 AWG	—	—	A31673-ND	.28	.11	640632-3
	Tin Plated, 22 AWG	—	—	A31674-ND	.28	.11	640633-3
	Tin Plated, 24 AWG	—	—	A31675-ND	.26	.10	640634-3
SL-156 Crimp Housings (Contacts Sold Separately)							
3	***RoHS Compliant*** Without Lock Ramp Without Polarizing Tabs, UL94V-0 White	2	.308 (7.82)	A19970-ND	.28	.14	640251-2
		3	.465 (11.81)	A19971-ND	.29	.17	640251-3
		4	.620 (15.75)	A19972-ND	.29	.22	640251-4
		5	.777 (19.74)	A19973-ND	.30	.27	640251-5
		6	.933 (23.70)	A19974-ND	.29	.24	640251-6
		7	1.090 (27.69)	A19975-ND	.42	.38	640251-7
		8	1.246 (31.65)	A19976-ND	.47	.43	640251-8
		9	1.402 (35.61)	A19977-ND	.53	.49	640251-9
		10	1.558 (39.57)	A19978-ND	.59	.54	1-640251-0
		11	1.715 (43.56)	A19979-ND	.65	.60	1-640251-1
		12	1.871 (47.52)	A19980-ND	1.11	1.01	1-640251-2
		13	2.027 (51.49)	A24128-ND	.77	.70	1-640251-3
		14	2.183 (55.45)	A24129-ND	.83	.76	1-640251-4
		16	2.496 (63.40)	A24130-ND	.95	.86	1-640251-6
4	***RoHS Compliant*** With Lock Ramp Without Polarizing Tabs, UL94V-0 White (Not to be used with Rear Bend Friction Lock header)	2	.308 (7.82)	A19950-ND	.29	.11	640250-2
		3	.465 (11.81)	A19951-ND	.29	.10	640250-3
		4	.620 (15.75)	A19952-ND	.29	.22	640250-4
		5	.777 (19.74)	A19953-ND	.29	.17	640250-5
		6	.933 (23.70)	A19954-ND	.29	.20	640250-6
		7	1.090 (27.69)	A19955-ND	.29	.21	640250-7
		8	1.246 (31.65)	A19956-ND	.29	.27	640250-8
		9	1.402 (35.61)	A19957-ND	.53	.49	640250-9
		10	1.558 (39.57)	A19958-ND	.59	.54	1-640250-0
		11	1.715 (43.56)	A19959-ND	.65	.60	1-640250-1
		12	1.871 (47.52)	A19960-ND	.44	.40	1-640250-2
		13	2.027 (51.49)	A28761-ND	.77	.70	1-640250-3
		14	2.183 (55.45)	A24126-ND	.83	.76	1-640250-4
		16	2.496 (63.40)	A24127-ND	.95	.86	1-640250-6
5	***RoHS Compliant*** With Lock Ramp With Polarizing Tabs, UL94V-0 White (Not to be used with Rear Bend Friction Lock header)	2	.308 (7.82)	A24111-ND	.28	.11	770849-2
		3	.465 (11.81)	A24112-ND	.29	.17	770849-3
		4	.620 (15.75)	A24113-ND	.29	.22	770849-4
		5	.777 (19.74)	A24114-ND	.30	.18	770849-5
		6	.933 (23.70)	A24115-ND	.36	.33	770849-6
		7	1.090 (27.69)	A24116-ND	.42	.38	770849-7
		8	1.246 (31.65)	A24117-ND	.47	.43	770849-8
		9	1.402 (35.61)	A24118-ND	.40	.37	770849-9
		10	1.558 (39.57)	A24119-ND	.59	.54	1-770849-0
		11	1.715 (43.56)	A24120-ND	.65	.60	1-770849-1
		12	1.871 (47.52)	A24121-ND	.71	.65	1-770849-2
		13	2.027 (51.49)	A24122-ND	.77	.70	1-770849-3
		14	2.183 (55.45)	A24123-ND	.83	.76	1-770849-4
		16	2.496 (63.40)	A24124-ND	.95	.86	1-770849-6

(Continued)

MTA .156” (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Digi-Key Part No.	Loose Piece Price Each		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		AMP Part No.
			1	25			100	500	
SL-156 Crimp Contacts (24-18 AWG)									
6	***RoHS Compliant*** Brass, Tin Plated, 6.5A	A31396-ND	.26	.24	3-640706-1	A31395CT-ND A31395TR-ND	5.14	23.54 179.76/7,000	3-640252-1
	RoHS Compliant Brass, Pre-Tin Pltd., 6.5A	A19991-ND	.29	.19	640706-2	A19991CT-ND A19991TR-ND	4.11	18.85 143.96/7,000	640252-2
7	Brass, Tin Plated, 6.5A	A19992-ND	.29	.24	640707-1	—	—	—	—
	RoHS Compliant Brass, Tin Plated, 6.5A	A31397-ND	.29	.24	3-640707-1	A31394CT-ND A31394TR-ND	5.14	23.54 154.08/6,000	3-350980-1
	RoHS Compliant Brass, Pre-Tin Pltd. 6.5A	—	—	—	—	A24203CT-ND A24203TR-ND	4.11	18.85 123.39/6,000	350980-2
	RoHS Compliant Brass, Gold Plated, 6.5A	A24205-ND	.39	.36	770258-1	A24205CT-ND A24205TR-ND	25.00	114.57 749.88/6,000	350980-3
8	Phosphor Bronze, Tin Plated, Hooded, 10A	A19993-ND	.30	.24	770522-1	— —	— —	— —	—
	RoHS Compliant Phosphor Bronze, Tin Plated, Hooded, 10A	—	—	—	—	A31398CT-ND A31398TR-ND	5.64	25.86 155.18/5,500	3-770476-1
	RoHS Compliant Phosphor Bronze, Gold Plated, Hooded, 10A	A24208-ND	.31	.29	770522-2	A24208CT-ND A24208TR-ND	16.07	73.66 441.95/5,500	770476-2

Fig.	Description	Circuits	Dim. "A" Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
SL-156 Keying Plugs and Pins — RoHS Compliant							
—	Plug, Keying	—	—	A19994-ND	.28	.09	640254-1
—	Pin, Keying	—	—	A19995-ND	.28	.10	640255-1
Accessories, .156” (3.96mm) Centers							
9	***RoHS Compliant*** Closed End Strain Relief Covers, White	2	.312 (7.92)	A19740-ND	.40	.37	643067-2
		3	.468 (11.89)	A19741-ND	.45	.41	643067-3
		4	.624 (15.85)	A19742-ND	1.29	1.17	643067-4
		5	.780 (19.81)	A19743-ND	1.29	1.17	643067-5
		6	.936 (23.77)	A19744-ND	1.30	1.17	643067-6
		7	1.092 (27.74)	A19745-ND	1.30	1.18	643067-7
		8	1.248 (31.70)	A19746-ND	.47	.43	643067-8
		10	1.560 (39.62)	A19748-ND	1.32	1.19	1-643067-0
		11	1.716 (43.59)	A19749-ND	1.42	1.28	1-643067-1
		12	1.872 (47.55)	A19750-ND	1.33	1.20	1-643067-2
		13	2.028 (51.51)	A24108-ND	1.26	1.14	1-643067-3
		17	2.652 (67.36)	A24109-ND	1.35	1.22	1-643067-7
10	***RoHS Compliant*** Closed End Dust Covers, White	2	—	A19760-ND	.28	.14	640551-2
		3	—	A19761-ND	.29	.18	640551-3
		4	—	A19762-ND	.29	.21	640551-4
		5	—	A19763-ND	.29	.25	640551-5
		6	—	A19764-ND	.30	.28	640551-6
		7	—	A19765-ND	.34	.31	640551-7
		8	—	A19766-ND	.38	.35	640551-8
		9	—	A19767-ND	.42	.38	640551-9
		10	—	A19768-ND	.46	.42	1-640551-0
		11	—	A19769-ND	.49	.45	1-640551-1
		12	—	A19770-ND	.52	.48	1-640551-2
11	***RoHS Compliant*** Feed-Thru Strain Relief Covers, White	2	.312 (7.92)	A19780-ND	.29	.26	643071-2
		3	.468 (11.89)	A19781-ND	.43	.39	643071-3
		4	.624 (15.85)	A19782-ND	.57	.52	643071-4
		6	.936 (23.77)	A19784-ND	.35	.32	643071-6
		7	1.092 (27.74)	A19785-ND	1.36	1.23	643071-7
		8	1.248 (31.70)	A19786-ND	.87	.78	643071-8
		9	1.404 (35.66)	A19787-ND	.91	.82	643071-9
		10	1.560 (39.62)	A19788-ND	1.41	1.28	1-643071-0
		11	1.716 (43.59)	A19789-ND	1.32	1.19	1-643071-1
		12	1.872 (47.55)	A19790-ND	1.42	1.29	1-643071-2
		15	2.340 (59.44)	A24110-ND	1.44	1.30	1-643071-5
		17	2.652 (67.36)	A26040-ND	1.35	1.22	1-643071-7
12	***RoHS Compliant*** Feed-Thru Dust Covers, White	3	—	A19801-ND	.29	.18	640643-3
		4	—	A19802-ND	.29	.21	640643-4
		5	—	A19803-ND	.29	.25	640643-5
		6	—	A19804-ND	.28	.16	640643-6
		7	—	A19805-ND	.34	.31	640643-7
		8	—	A19806-ND	.29	.20	640643-8
		9	—	A19807-ND	.42	.38	640643-9
		10	—	A19808-ND	.46	.42	1-640643-0
		11	—	A19809-ND	.49	.45	1-640643-1
		12	—	A19810-ND	.52	.48	1-640643-2
Keying Plugs — RoHS Compliant							
13	Loose Piece, Flush Used with Keyed Headers	—	—	A19845-ND	.28	.15	640629-1
14	On Carrier Strip, Flush 10 per Strip	—	—	A19840-ND	1.62	1.47	641623-1
15	Long Nose Used with Staked Post	—	—	A19850-ND	.28	.14	640630-1
Panel Mount End Caps — RoHS Compliant							
16	Black Nylon	2	—	A19860-ND	.56	.51	641533-1
17	Black Nylon	3-24	—	A19855-ND	.78	.71	641440-1

Fig.	Description	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
Flat Post Headers, .156” (3.96mm) Centers							
18	***RoHS Compliant*** Straight Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A1961-ND	.28	.18	640383-2
		3	.468 (11.89)	A19870-ND	.56	.51	640383-3
		4	.624 (15.85)	A1962-ND	.39	.36	640383-4
		5	.780 (19.81)	A19871-ND	.49	.44	640383-5
		6	.936 (23.77)	A1963-ND	.53	.48	640383-6
		7	1.092 (27.74)	A19872-ND	.62	.56	640383-7
		8	1.248 (31.70)	A1964-ND	.71	.64	640383-8
		9	1.404 (35.66)	A19873-ND	.80	.72	640383-9
		10	1.560 (39.62)	A1965-ND	.89	.80	1-640383-0
		11	1.716 (43.59)	A19874-ND	.49	.45	1-640383-1
		12	1.872 (47.55)	A19875-ND	.54	.49	1-640383-2
		17	2.652 (67.36)	A26167-ND	1.88	1.70	1-640383-7
18	***RoHS Compliant*** Straight Post .045” (1.14mm) Round, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A26168-ND	.38	.34	640384-2
		3	.468 (11.89)	A26169-ND	.29	.27	640384-3
		4	.624 (15.85)	A24152-ND	.75	.68	640384-4
		5	.780 (19.81)	A26170-ND	.49	.44	640384-5
		6	.936 (23.77)	A26171-ND	1.02	.93	640384-6
		7	1.092 (27.74)	A26172-ND	.62	.56	640384-7
		8	1.248 (31.7)	A24153-ND	1.36	1.23	640384-8
		9	1.404 (35.66)	A26173-ND	1.53	1.39	640384-9
		10	1.560 (39.62)	A24154-ND	1.70	1.54	1-640384-0
		12	1.872 (47.55)	A26174-ND	1.16	1.05	1-640384-2
19	***RoHS Compliant*** Right Angle Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A1966-ND	.28	.09	640385-2
		3	.468 (11.89)	A19876-ND	.29	.12	640385-3
		4	.624 (15.85)	A1967-ND	.28	.16	640385-4
		5	.780 (19.81)	A19877-ND	.29	.21	640385-5
		6	.936 (23.77)	A1968-ND	.29	.24	640385-6
		7	1.092 (27.74)	A19878-ND	.28	.26	640385-7
		8	1.248 (31.70)	A1969-ND	.37	.33	640385-8
		9	1.404 (35.66)	A19879-ND	1.06	.96	640385-9
		10	1.560 (39.62)	A1970-ND	.41	.38	1-640385-0
		11	1.716 (43.59)	A19880-ND	1.31	1.18	1-640385-1
		12	1.872 (47.55)	A19881-ND	.49	.45	1-640385-2
19	***RoHS Compliant*** Right Angle Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .175” (4.45mm) Soldertail, White	2	.312 (7.92)	A24155-ND	.28	.09	644751-2
		3	.468 (11.89)	A24156-ND	.12	.11	644751-3
		4	.624 (15.85)	A24157-ND	.18	.16	644751-4
		5	.780 (19.81)	A24158-ND	.23	.21	644751-5
		6	.936 (23.77)	A24159-ND	.26	.24	644751-6
		7	1.092 (27.74)	A24160-ND	.28	.26	644751-7
		8	1.248 (31.7)	A24161-ND	.37	.33	644751-8
		10	1.560 (39.62)	A24162-ND	.41	.38	1-644751-0
		12	1.872 (47.55)	A24163-ND	.49	.45	1-644751-2
Straight Post Headers, .156” (3.96mm) Centers, Friction Lock Header							
20	***RoHS Compliant*** Square Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A1971-ND	.28	.09	640445-2
		3	.468 (11.89)	A19890-ND	.28	.12	640445-3
		4	.624 (15.85)	A1972-ND	.28	.16	640445-4
		5	.780 (19.81)	A19891-ND	.29	.21	640445-5
		6	.936 (23.77)	A1973-ND	.29	.24	640445-6
		7	1.092 (27.74)	A19892-ND	.28	.26	640445-7
		8	1.248 (31.70)	A1974-ND	.37	.33	640445-8
		9	1.404 (35.66)	A19893-ND	1.06	.96	640445-9
		10	1.560 (39.62)	A1975-ND	.41	.38	1-640445-0
		11	1.716 (43.59)	A19894-ND	1.30	1.17	1-640445-1
		12	1.872 (47.55)	A19895-ND	.49	.45	1-640445-2
20	***RoHS Compliant*** Square Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .175” (4.45mm) Soldertail, White	2	.312 (7.92)	A24164-ND	.12	.11	644752-2
		3	.468 (11.89)	A24165-ND	.12	.11	644752-3
		4	.624 (15.85)	A24166-ND	.18	.16	644752-4
		5	.780 (19.81)	A24167-ND	.23	.21	644752-5
		6	.936 (23.77)	A24168-ND	.26	.24	644752-6
		7	1.092 (27.74)	A24169-ND	.28	.26	644752-7
		8	1.248 (31.7)	A24170-ND	.37	.33	644752-8
		9	1.404 (35.66)	A26175-ND	1.06	.96	644752-9
		10	1.560 (39.62)	A24171-ND	.41	.38	1-644752-0
		12	1.872 (47.55)	A24172-ND	.49	.45	1-644752-2
20	Square Post .045” (1.14mm) Square, Standard UL94V-0, 30µ Gold Plated, .125” (3.18mm) Soldertail, White	4	.624 (15.85)	A26177-ND	1.73	1.56	641208-4
		8	1.248 (31.70)	A26181-ND	3.91	3.53	641208-8
		12	1.872 (47.55)	A26185-ND	5.86	5.28	1-641208-2
20	***RoHS Compliant*** Square Post .045” (1.14mm) Square, Standard UL94V-0, 30µ Gold Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A31676-ND	1.18	1.06	3-641208-2
		3	.468 (11.89)	A31677-ND	1.32	1.20	3-641208-3
		4	.624 (15.85)	A31678-ND	1.73	1.56	3-641208-4
		5	.780 (19.81)	A31679-ND	2.21	1.99	3-641208-5
		6	.936 (23.77)	A31680-ND	2.69	2.42	3-641208-6
		7	1.092 (27.74)	A31681-ND	3.05	2.75	3-641208-7
		8	1.248 (31.70)	A31682-ND	3.53	3.18	3-641208-8
		9	1.404 (35.66)	A31683-ND	3.97	3.58	3-641208-9
		10	1.560 (39.62)	A31684-ND	4.37	3.94	4-641208-0
		11	1.716 (43.59)	A31685-ND	4.82	4.34	4-641208-1
		12	1.872 (47.55)	A31686-ND	5.26	4.74	4-641208-2
		17	2.652 (67.36)	A31687-ND	7.59	6.83	4-641208-7

(Continued)

MTA .156” (3.96mm) Receptacles and Post Headers *(Cont.)*

Fig.	Description	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Straight Post Headers, .156” (3.96mm) Centers, Friction Lock Header							
20	***RoHS Compliant*** Round Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A19900-ND	.28	.09	640388-2
		3	.468 (11.89)	A19901-ND	.29	.12	640388-3
		4	.624 (15.85)	A19902-ND	.28	.16	640388-4
		5	.780 (19.81)	A19903-ND	.29	.21	640388-5
		6	.936 (23.77)	A19904-ND	.29	.24	640388-6
		7	1.092 (27.74)	A19905-ND	.28	.26	640388-7
		8	1.248 (31.70)	A19906-ND	.37	.33	640388-8
		9	1.404 (35.66)	A19907-ND	1.06	.96	640388-9
		10	1.560 (39.62)	A19908-ND	.41	.38	1-640388-0
		11	1.716 (43.59)	A19909-ND	2.50	2.26	1-640388-1
		12	1.872 (47.55)	A19910-ND	.49	.45	1-640388-2
20	***RoHS Compliant*** Round Post .045” (1.14mm) Square, Standard UL94V-0, Tin Plated, .175” (4.45mm) Soldertail, White	2	.312 (7.92)	A24176-ND	.28	.09	644753-2
		3	.468 (11.89)	A24177-ND	.12	.11	644753-3
		4	.624 (15.85)	A24178-ND	.18	.16	644753-4
		5	.780 (19.81)	A24179-ND	.23	.21	644753-5
		6	.936 (23.77)	A24180-ND	.26	.24	644753-6
		7	1.092 (27.74)	A24181-ND	.28	.26	644753-7
		8	1.248 (31.7)	A24182-ND	.37	.33	644753-8
		10	1.560 (39.62)	A24183-ND	.41	.38	1-644753-0
		12	1.872 (47.55)	A24184-ND	.49	.45	1-644753-2
Right Angle Post Headers, .156” (3.96mm) Centers, Friction Lock Header							
21	***RoHS Compliant*** Right Angle Post .045” (1.14mm) Square, Front Bend, Standard UL94V-0, Tin-Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A1976-ND	.39	.36	640389-2
		3	.468 (11.89)	A19920-ND	.30	.27	640389-3
		4	.624 (15.85)	A1977-ND	.78	.71	640389-4
		5	.780 (19.81)	A19921-ND	.97	.88	640389-5
		6	.936 (23.77)	A1978-ND	1.06	.96	640389-6
		7	1.092 (27.74)	A19922-ND	1.24	1.12	640389-7
		8	1.248 (31.70)	A1979-ND	1.42	1.28	640389-8
		9	1.404 (35.66)	A19923-ND	1.60	1.44	640389-9
		10	1.560 (39.62)	A1980-ND	1.77	1.60	1-640389-0
		11	1.716 (43.59)	A19924-ND	1.95	1.76	1-640389-1
		12	1.872 (47.55)	A19925-ND	2.13	1.92	1-640389-2

Fig.	Description	Circuits	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
21	Right Angle Post .045” (1.14mm) Square, Front Bend, Standard UL94V-0, 30µ Gold Plated, .125” (3.18mm) Soldertail, White	4	.624 (15.85)	A26187-ND	2.21	1.99	641210-4
		10	1.560 (39.62)	A24186-ND	4.84	4.36	1-641210-0
		12	1.872 (47.55)	A26192-ND	6.12	5.51	1-641210-2
21	***RoHS Compliant*** Right Angle Post .045” (1.14mm) Square, Front Bend, Standard UL94V-0, 30µ Gold Plated, .125” (3.18mm) Soldertail, White	2	.312 (7.92)	A31688-ND	1.10	.99	3-641210-2
		3	.468 (11.89)	A31689-ND	1.53	1.38	3-641210-3
		4	.624 (15.85)	A31690-ND	1.97	1.77	3-641210-4
		5	.780 (19.81)	A31691-ND	2.37	2.14	3-641210-5
		6	.936 (23.77)	A31692-ND	2.89	2.61	3-641210-6
		8	1.248 (31.70)	A31693-ND	3.69	3.33	3-641210-8
		9	1.404 (35.66)	A31694-ND	4.09	3.69	3-641210-9
		10	1.560 (39.62)	A31695-ND	4.35	3.92	4-641210-0
		12	1.872 (47.55)	A31696-ND	5.50	4.95	4-641210-2
22	***RoHS Compliant*** Right Angle Post .045” (1.14mm) Square, Rear Bend, Standard UL94V-0, Tin-Plated, .125” (3.18mm) Soldertail, White	2	—	A19930-ND	.75	.68	640387-2
		3	—	A19931-ND	.58	.53	640387-3
		4	—	A19932-ND	.78	.71	640387-4
		5	—	A19933-ND	.97	.88	640387-5
		6	—	A19934-ND	.54	.49	640387-6
		7	—	A19935-ND	1.24	1.12	640387-7
		8	—	A19936-ND	1.42	1.28	640387-8
		9	—	A19937-ND	1.60	1.44	640387-9
		10	—	A19938-ND	1.77	1.60	1-640387-0
		11	—	A19939-ND	1.95	1.76	1-640387-1
		12	—	A19940-ND	2.13	1.92	1-640387-2

2-Position, Low Profile Post Shunts

Material: • **Housing:** Glass-filled thermoplastic, 94V-0 rated • **Contact:** Beryllium copper or phosphor bronze • **Finish:** (50µ) nickel with gold plate in contact area or tin plate overall

Fig. 1

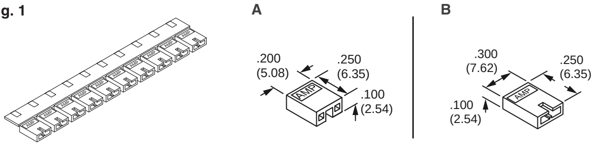

Fig. 2

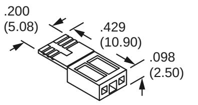

Fig. 3

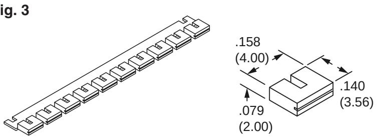

Fig.	Description	Housing Color	Digi-Key Part No.	Pricing 10	50	AMP Part No.
Economy, .100 (2.54mm) Centerline						
1A	Strip of 10, Gold Flash, (5µ) over Nickel	Black	A26228-ND◊	1.07	4.28	382811-8
	Strip of 10, Gold Plate, (15µ) over Nickel	Blue	A26226-ND◊	4.49	17.96	382811-2
	Strip of 10, Gold Plate, (15µ) over Nickel	Black	A26227-ND◊	1.17	4.67	382811-6
	Strip of 10, Gold Plate, (15µ) over Nickel	Red	A26230-ND◊	1.63	6.54	382811-9
	Loose Piece, Gold Plate, (15µ) over Nickel	Black	A26231-ND◊	4.01	16.05	1-382811-6
	Strip of 10, Tin Plate, (100µ) over Nickel	Black	A26229-ND	1.46	5.83	382811-5
	Strip of 10, Tin Plate, (100µ) over Nickel	Black	A31697-ND◊	1.13	4.54	2-382811-1
Standard Housing, .200 (5.08mm) Centerline						
1B	Strip of 10, Gold Plate, (15µ) over Nickel	Black	A26232-ND◊	4.61	18.45	531230-2
	Strip of 10, Gold Plate, (30µ) over Nickel	Black	A26233-ND◊	5.32	21.29	531230-3
	Strip of 10, Tin Plate, (100µ) over Nickel	Black	A31698-ND◊	4.37	17.49	531230-4
Handle, .100 (2.54mm) Centerline						
2	Open Top & Gold Plate, (30µ) over Nickel	Black	A26242-ND◊	1.48	5.92	881545-2
	Open Top & Tin Plate, (100µ) over Nickel	Black	A26853-ND◊	2.16	8.63	4-881545-2
2mm Mini-Shunt, .079 (2.00mm) Centerline						
3	Strip of 10, Gold Plate, (15µ) over Nickel	Black	A26244-ND◊	3.18	12.72	382575-2

◊ ***RoHS Compliant***

Economy Power (EP) Wire-to-Board Connector System

RoHS Compliant

FEATURES: • .156 (3.96) and .312 (7.92) centerlines • Positive locking • Vertical headers are end-to-end stackable • UL File No. E28476 • CSA File No. LR7189 • Use .156 (3.96) receptacles for .312 (7.92) headers **SPECIFICATIONS: • Voltage Rating:** 250V VAC • **Current Rating:** 8 amp maximum (1 pos.); 7.5 amp maximum (2 ~ 11 position) • 22 - 18AWG • **Contacts:** Phosphor Bronze/Tin • **Durability:** 50 mating and unmating cycles • **Operating Temperature:** -25°C ~ 105°C

Dim. in mm

Fig. 1

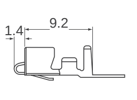

Fig. 2

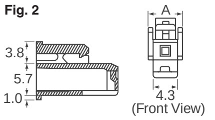

Fig. 3

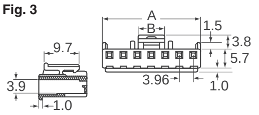

Fig. 4

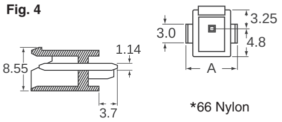

*66 Nylon

Fig. 5

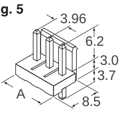

Fig. 6

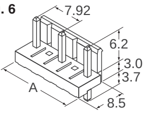

Fig.	Description	Digi-Key Part No.	Loose Pc. Price Each 1	25	Amp Part No.	Digi-Key Part No.	T & R 4,000	AMP Part No.
1	Contact	A30499-ND	.28	.13	1318912-1	A30499TR-ND	77.64/M	1123721-1

Fig.	Dimensions A	B	No. of Positions	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Plug Housing (66 Nylon, UL94V-0, Natural)							
2	6.2	—	1	A30525-ND	.51	.47	1-1123823-1
3	7.86	3.60	2	A30501-ND	.28	.11	1-1123722-2
	11.82	7.50	3	A30502-ND	.27	.12	1-1123722-3
	15.78	7.50	4	A30503-ND	.28	.17	1-1123722-4
	19.74	7.50	5	A30504-ND	.28	.23	1-1123722-5
	23.70	7.50	6	A30505-ND	.29	.27	1-1123722-6
	27.66	7.50	7	A30506-ND	.34	.31	1-1123722-7
	31.62	7.50	8	A30507-ND	.39	.36	1-1123722-8
	35.58	7.50	9	A30508-ND	.45	.41	1-1123722-9
	39.54	7.50	10	A30509-ND	.52	.47	1-1123722-0
	43.50	7.50	11	A30510-ND	.62	.56	1-1123722-1
Headers (Glass Reinforced PBT, UL94V-0, Natural)							
4	6.2	—	1	A30708-ND*	.60	.54	1-1123824-1
5	7.86	—	2	A30511-ND	.14	.13	1-1318300-2
	11.82	—	3	A30512-ND	.19	.18	1-1318300-3
	15.78	—	4	A30513-ND	.26	.24	1-1318300-4
	19.74	—	5	A30514-ND	.29	.26	1-1318300-5
	23.70	—	6	A30515-ND	.32	.30	1-1318300-6
	27.66	—	7	A30516-ND	.36	.33	1-1318300-7
	31.62	—	8	A30517-ND	.39	.36	1-1318300-8
	35.58	—	9	A30518-ND	.56	.51	1-1318300-9
	39.54	—	10	A30519-ND	.48	.44	1-1318300-0
	43.50	—	11	A30520-ND	.64	.58	1-1318300-1
6	11.82	—	2	A30521-ND	.21	.19	1-1318301-2
	19.74	—	3	A30522-ND	.27	.25	1-1318301-3
	27.66	—	4	A30523-ND	.33	.30	1-1318301-4
	35.58	—	5	A30524-ND	.33	.30	1-1318301-5
Tool							
Hand Crimp Tool, EP				A30527-ND	551.57	—	91579-1

Micro-Fit 3.0™ Connectors

Features: • Fully isolated contacts • Fully polarized to mating receptacle • Integral pull tabs for ease in unmating **Electrical:** 250V **Current:** 5.0A maximum **Contact Res.:** 10mΩ maximum **Dielectric Withstanding Volt:** 1500VAC **Insulation Res.:** 1,000MΩ minimum **Physical: Housing:** UL 94V-0 Phosphor Bronze **Plating:** Tin or Gold **BMI Features and Benefits:** Connectors float in panel cutout up to 1.27mm (.050") in any direction. Use standard Micro-Fit terminals. Innovative panel mounting design holds connectors firmly in place. Fully isolated contacts prevent terminal damage. Fully polarized to completely prevent mismating.

Fig. 1

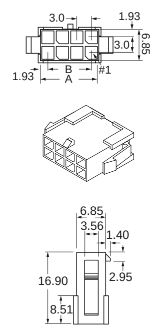

Fig. 2

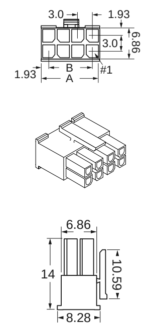

Fig. 3

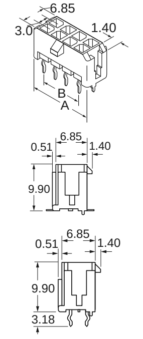

Fig. 4

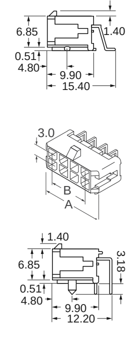

Fig. 5 – Blind Mate

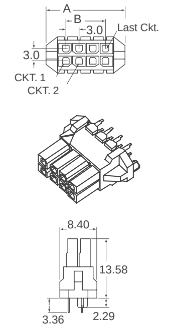

Fig. 6 – Blind Mate

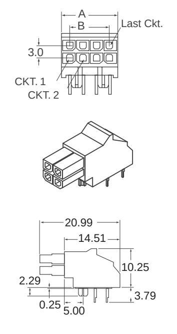

Fig. 7 – Blind Mate

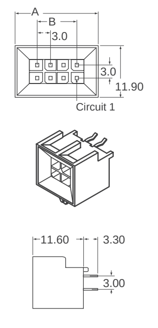

Fig.	Circuits	Dimension (mm) A	Dimension (mm) B	Plating	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
Plug Housing — Panel Mount (uses male terminal)									
1	2	3.85	—	—	WM1777-ND	.57	.51	.34	43020-0200
	4	6.85	3.00	—	WM1778-ND	.65	.58	.39	43020-0400
	6	9.85	6.00	—	WM1779-ND	.76	.67	.45	43020-0600
	8	12.85	9.00	—	WM1780-ND	.84	.75	.50	43020-0800
	10	15.85	12.00	—	WM1781-ND	.97	.86	.57	43020-1000
	12	18.85	15.00	—	WM1782-ND	1.12	.99	.66	43020-1200
	14	21.85	18.00	—	WM2483-ND	1.26	1.11	.74	43020-1400
	16	24.85	21.00	—	WM2484-ND	1.44	1.28	.85	43020-1600
	18	27.85	24.00	—	WM2485-ND	1.61	1.42	.95	43020-1800
	20	30.85	27.00	—	WM2486-ND	1.78	1.58	1.05	43020-2000
	22	33.85	30.00	—	WM2487-ND	1.95	1.72	1.15	43020-2200
	24	36.85	33.00	—	WM2488-ND	2.13	1.88	1.26	43020-2400
Receptacle Housing (uses female terminal)									
2	2	3.85	—	—	WM1783-ND	.57	.51	.34	43025-0200
	4	6.85	3.00	—	WM1784-ND	.65	.58	.39	43025-0400
	6	9.85	6.00	—	WM1785-ND	.76	.67	.45	43025-0600
	8	12.85	9.00	—	WM1786-ND	.84	.75	.50	43025-0800
	10	15.85	12.00	—	WM1787-ND	.97	.86	.57	43025-1000
	12	18.85	15.00	—	WM1788-ND	1.12	.99	.66	43025-1200
	14	21.85	18.00	—	WM2489-ND	1.26	1.11	.74	43025-1400
	16	24.85	21.00	—	WM2490-ND	1.44	1.28	.85	43025-1600
	18	27.85	24.00	—	WM2491-ND	1.61	1.42	.95	43025-1800
	20	30.85	27.00	—	WM2492-ND	1.78	1.57	1.05	43025-2000
	22	33.85	30.00	—	WM2493-ND	1.94	1.72	1.15	43025-2200
	24	36.85	33.00	—	WM2494-ND	2.13	1.88	1.26	43025-2400
Vertical Header — Through-Hole with Offset Terminal Retention									
3	2	6.65	—	Tin	WM1789-ND	1.02	.90	.60	43045-0212
	4	9.65	3.00	Tin	WM1790-ND	1.40	1.24	.83	43045-0412
	6	12.65	6.00	Tin	WM1791-ND	1.77	1.57	1.05	43045-0612
	8	15.65	9.00	Tin	WM1792-ND	2.15	1.90	1.27	43045-0812
	10	18.65	12.00	Tin	WM1793-ND	2.52	2.23	1.49	43045-1012
	12	21.65	15.00	Tin	WM1794-ND	2.92	2.58	1.72	43045-1212
	14	24.65	18.00	Tin	WM4711-ND	3.32	2.93	1.96	43045-1412
	16	27.65	21.00	Tin	WM4712-ND	3.70	3.27	2.18	43045-1612
	18	30.65	24.00	Tin	WM4713-ND	4.16	3.67	2.45	43045-1812
	20	33.65	27.00	Tin	WM4714-ND	4.62	4.08	2.72	43045-2012
	22	36.65	30.00	Tin	WM4715-ND	5.08	4.49	2.99	43045-2212
	24	39.65	33.00	Tin	WM4716-ND	5.54	4.89	3.26	43045-2412
	2	6.65	—	Gold, 30µ”	WM1795-ND	1.59	1.41	.94	43045-0214
	4	9.65	3.00	Gold, 30µ”	WM1796-ND	2.20	1.95	1.30	43045-0414
	6	12.65	6.00	Gold, 30µ”	WM1797-ND	2.80	2.47	1.65	43045-0614
	8	15.65	9.00	Gold, 30µ”	WM1798-ND	3.38	2.99	1.99	43045-0814
	10	18.65	12.00	Gold, 30µ”	WM1799-ND	4.03	3.56	2.38	43045-1014
	12	21.65	15.00	Gold, 30µ”	WM1800-ND	4.55	4.02	2.68	43045-1214
	14	24.65	18.00	Gold	WM4717-ND	5.19	4.59	3.06	43045-1414
	16	27.65	21.00	Gold	WM4718-ND	5.78	5.10	3.40	43045-1614
	18	30.65	24.00	Gold	WM4719-ND	6.50	5.74	3.83	43045-1814
	20	33.65	27.00	Gold	WM4720-ND	8.01	7.07	4.72	43045-2014
	22	36.65	30.00	Gold	WM4721-ND	7.94	7.01	4.68	43045-2214
	24	39.65	33.00	Gold	WM4722-ND	8.65	7.64	5.09	43045-2414
Vertical Header — SMT with Fitting Nail									
3	2	6.65	—	Tin	WM1801-ND	3.09	2.73	1.82	43045-0218
	4	9.65	3.00	Tin	WM1802-ND	3.57	3.15	2.10	43045-0418
	6	12.65	6.00	Tin	WM1803-ND	4.47	3.95	2.64	43045-0618-P
	8	15.65	9.00	Tin	WM1804-ND	4.61	4.07	2.71	43045-0818
	10	18.65	12.00	Tin	WM1805-ND	5.06	4.47	2.98	43045-1018
	12	21.65	15.00	Tin	WM1806-ND	5.52	4.87	3.25	43045-1218
	2	6.65	—	Gold, 30µ”	WM1807-ND	3.81	3.36	2.24	43045-0220
	4	9.65	3.00	Gold, 30µ”	WM1808-ND	4.56	4.03	2.69	43045-0420
	6	12.65	6.00	Gold, 30µ”	WM1809-ND	5.29	4.67	3.12	43045-0620
	8	15.65	9.00	Gold, 30µ”	WM1810-ND	6.13	5.42	3.61	43045-0820
	10	18.65	12.00	Gold, 30µ”	WM1811-ND	6.86	6.05	4.04	43045-1020
	12	21.65	15.00	Gold, 30µ”	WM1812-ND	7.57	6.69	4.46	43045-1220
Right Angle Header — Through-Hole									
4	2	6.65	—	Tin	WM1813-ND	1.32	1.17	.78	43045-0200
	4	9.65	3.00	Tin	WM1814-ND	1.69	1.49	1.00	43045-0400
	6	12.65	6.00	Tin	WM1815-ND	2.13	1.88	1.26	43045-0600
	8	15.65	9.00	Tin	WM1816-ND	2.60	2.30	1.54	43045-0800
	10	18.65	12.00	Tin	WM1817-ND	3.05	2.69	1.80	43045-1000
	12	21.65	15.00	Tin	WM1818-ND	3.50	3.09	2.06	43045-1200
	14	24.65	18.00	Tin	WM4723-ND	3.99	3.53	2.35	43045-1400
	16	27.65	21.00	Tin	WM4724-ND	4.46	3.94	2.63	43045-1600
	18	30.65	24.00	Tin	WM4725-ND	5.02	4.43	2.96	43045-1800
	20	33.65	27.00	Tin	WM4726-ND	5.58	4.93	3.29	43045-2000
	22	36.65	30.00	Tin	WM4727-ND	6.13	5.42	3.61	43045-2200
	24	39.65	33.00	Tin	WM4728-ND	6.69	5.90	3.94	43045-2400
	2	6.65	—	Gold, 30µ”	WM1819-ND	1.93	1.71	1.14	43045-0202
	4	9.65	3.00	Gold, 30µ”	WM1820-ND	2.65	2.34	1.56	43045-0402
	6	12.65	6.00	Gold, 30µ”	WM1821-ND	3.37	2.98	1.99	43045-0602
	8	15.65	9.00	Gold, 30µ”	WM1822-ND	4.10	3.62	2.42	43045-0802
	10	18.65	12.00	Gold, 30µ”	WM1823-ND	4.82	4.26	2.84	43045-1002
	12	21.65	15.00	Gold, 30µ”	WM1824-ND	5.57	4.92	3.28	43045-1202
	14	24.65	18.00	Gold, 30µ”	WM4729-ND	6.25	5.52	3.68	43045-1402
	16	27.65	21.00	Gold, 30µ”	WM4730-ND	6.98	6.16	4.11	43045-1602
	18	30.65	24.00	Gold, 30µ”	WM4731-ND	7.85	6.93	4.62	43045-1802
	20	33.65	27.00	Gold, 30µ”	WM4732-ND	8.72	7.70	5.14	43045-2002
	22	36.65	30.00	Gold, 30µ”	WM4733-ND	9.60	8.47	5.65	43045-2202
	24	39.65	33.00	Gold, 30µ”	WM4734-ND	10.46	9.24	6.16	43045-2402
Right Angle Header — SMT with Fitting Nail									
4	2	6.65	—	Tin	WM1825-ND	3.00	2.65	1.77	43045-0209
	4	9.65	3.00	Tin	WM1826-ND	3.61	3.19	2.13	43045-0409
	6	12.65	6.00	Tin	WM1827-ND	4.17	3.68	2.46	43045-0609
	8	15.65	9.00	Tin	WM1828-ND	4.87	4.30	2.87	43045-0809
	10	18.65	12.00	Tin	WM1829-ND	5.42	4.78	3.19	43045-1009
	12	21.65	15.00	Tin	WM1830-ND	5.96	5.27	3.51	43045-1209
	2	6.65	—	Gold, 30µ”	WM1831-ND	3.87	3.42	2.28	43045-0211
	4	9.65	3.00	Gold, 30µ”	WM1832-ND	4.80	4.24	2.83	43045-0411
	6	12.65	6.00	Gold, 30µ”	WM1833-ND	5.66	5.00	3.34	43045-0611
	8	15.65	9.00	Gold, 30µ”	WM1834-ND	6.70	5.92	3.95	43045-0811
	10	18.65	12.00	Gold, 30µ”	WM1835-ND	7.56	6.68	4.45	43045-1011
	12	21.65	15.00	Gold, 30µ”	WM1836-ND	8.46	7.47	4.98	43045-1211
BMI Vertical Receptacle Header with Friction Pegs (Blind Mate)									
5	4	12.00	3.00	Tin	WM1953-ND	2.62	2.32	1.55	44769-0401
	6	15.00	6.00	Tin	WM1954-ND	3.33	2.94	1.96	44769-0601
	8	18.00	9.00	Tin	WM1955-ND	4.04	3.57	2.38	44769-0801
	10	21.00	12.00	Tin	WM1956-ND	4.74	4.18	2.79	44769-1001
	12	24.00	15.00	Tin	WM1957-ND	5.43	4.79	3.20	44769-1201
	14	27.00	18.00	Tin	WM1958-ND	6.15	5.43	3.62	44769-1401
	16	30.00	21.00	Tin	WM1959-ND	6.84	6.04	4.03	44769-1601
	4	12.00	3.00	Gold	WM1960-ND	3.27	2.89	1.93	44769-0402
	6	15.00	6.00	Gold	WM1961-ND	4.15	3.67	2.45	44769-0602
	8	18.00	9.00	Gold	WM1962-ND	5.03	4.45	2.97	44769-0802
	10	21.00	12.00	Gold	WM1963-ND	5.92	5.23	3.49	44769-1002
	12	24.00	15.00	Gold	WM1964-ND	6.78	5.99	3.99	44769-1202
	14	27.00	18.00	Gold	WM1965-ND	7.67	6.77	4.52	44769-1402
	16	30.00	21.00	Gold	WM1966-ND	8.53	7.53	5.02	44769-1602
BMI Right Angle Receptacle Header with Friction Pegs (Blind Mate)									
6	4	6.70	3.00	Tin	WM1981-ND	3.14	2.78	1.85	44764-0401
	6	9.70	6.00	Tin	WM1982-ND	3.98	3.51	2.34	44764-0601
	8	12.70	9.00	Tin	WM1983-ND	4.86	4.29	2.86	44764-0801
	10	15.70	12.00	Tin	WM1984-ND	5.70	5.03	3.36	44764-1001
	12	18.70	15.00	Tin	WM1985-ND	6.54	5.78	3.85	44764-1201
	14	21.70	18.00	Tin	WM1986-ND	7.39	6.53	4.35	44764-1401
	16	24.70	21.00	Tin	WM1987-ND	8.25	7.28	4.86	44764-1601
	4	6.70	3.00	Gold	WM1988-ND	3.92	3.46	2.31	44764-0402
	6	9.70	6.00	Gold	WM1989-ND	4.97	4.39	2.93	44764-0602
	8	12.70	9.00	Gold	WM1990-ND	6.07	5.36	3.57	44764-0802
	10	15.70	12.00	Gold	WM1991-ND	7.11	6.27	4.19	44764-1002
	12	18.70	15.00	Gold	WM1992-ND	8.18	7.22	4.82	44764-1202
	14	21.70	18.00	Gold	WM1993-ND	9.22	8.14	5.43	44764-1402
	16	24.70	21.00	Gold	WM1994-ND	10.29	9.09	6.06	44764-1602
BMI Vertical Header with Polarizing Pegs (Blind Mate)									
7	4	13.00	3.00	Tin	WM1967-ND	1.88	1.66	1.11	44432-0401
	6	16.00	6.00	Tin	WM1968-ND	2.39	2.11	1.41	44432-0601
	8	19.00	9.00	Tin	WM1969-ND	2.90	2.56	1.71	44432-0801
	10	22.00	12.00	Tin	WM1970-ND	3.40	3.00	2.00	44432-1001
	12	25.00	15.00	Tin	WM1971-ND	3.89	3.43	2.29	44432-1201
	14	28.00	18.00	Tin	WM1972-ND	4.41	3.90	2.60	44432-1401
	16	31.00	21.00	Tin	WM1973-ND	4.91	4.33	2.89	44432-1601
	4	13.00	3.00	Gold	WM1974-ND	2.34	2.07	1.38	44432-0402
	6	16.00	6.00	Gold	WM1975-ND	2.97	2.63	1.75	44432-0602
	8	19.00	9.00	Gold	WM1976-ND	3.61	3.19	2.13	44432-0802
	10	22.00	12.00	Gold	WM1977-ND	4.24	3.75	2.50	44432-1002
	12	25.00	15.00	Gold	WM1978-ND	4.85	4.29	2.86	44432-1202
	14	28.00	18.00	Gold	WM1979-ND	5.50	4.85	3.24	44432-1402
	16	31.00	21.00	Gold	WM1980-ND	6.11	5.40	3.60	44432-1602
Right Angle Header (Blind Mate)									
8	4	13.00	3.00	Tin	WM1995-ND	2.27	2.00	1.34	44428-0401
	6	16.00	6.00	Tin	WM1996-ND	2.86	2.53	1.69	44428-0601
	8	19.00	9.00	Tin	WM1997-ND	3.49	3.09	2.06	44428-0801
	10	22.00	12.00	Tin	WM1998-ND	4.10	3.62	2.41	44428-1001
	12	25.00	15.00	Tin	WM1999-ND	4.70	4.15	2.77	44428-1201
	14	28.00	18.00	Tin	WM2025-ND	5.31	4.69	3.13	44428-1401
	16	31.00	21.00	Tin	WM2026-ND	5.92	5.23	3.49	44428-1601
	4	13.00	3.00	Gold	WM2027-ND	2.83	2.50	1.67	44428-0402
	6	16.00	6.00	Gold	WM2028-ND	3.57	3.16	2.11	44428-0602

(Continued)

Fig. 8 – Blind Mate

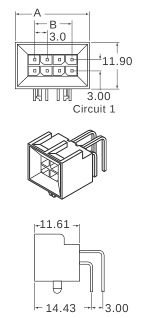

Fig. 9

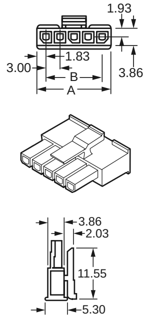

Fig. 10

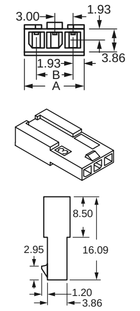

Fig. 11

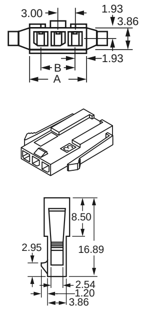

Fig. 12

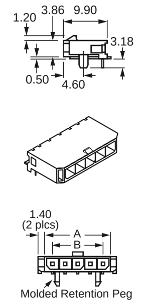

Fig. 13

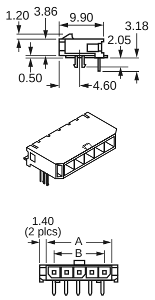

Fig. 14

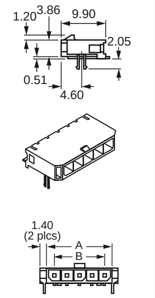

Fig. 15

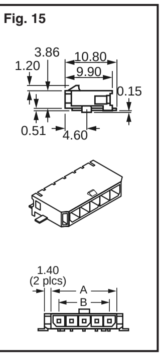

	Cir-	Dimension (mm)			Digi-Key	Price Each			Molex
Fig.	cuits	A	B	Plating	Part No.	1	10	100	Part No.
8	8	19.00	9.00	Gold	WM2029-ND	4.36	3.85	2.57	44428-0802
	10	22.00	12.00	Gold	WM2030-ND	5.10	4.51	3.01	44428-1002
	12	25.00	15.00	Gold	WM2031-ND	5.86	5.17	3.45	44428-1202
	14	28.00	18.00	Gold	WM2032-ND	6.62	5.84	3.90	44428-1402
	16	31.00	21.00	Gold	WM2033-ND	7.38	6.52	4.35	44428-1602
Micro-Fit Receptacle Housing									
9	2	6.85	3.00	—	WM1845-ND	.57	.51	.34	43645-0200
	3	9.85	6.00	—	WM1846-ND	.61	.51	.36	43645-0300
	4	12.85	9.00	—	WM1847-ND	.65	.58	.39	43645-0400
	5	15.85	12.00	—	WM1848-ND	.71	.63	.42	43645-0500
	6	18.85	15.00	—	WM1849-ND	.76	.67	.45	43645-0600
	7	21.85	18.00	—	WM2405-ND	.76	.67	.45	43645-0700
	8	24.85	21.00	—	WM2406-ND	.80	.71	.48	43645-0800
	9	27.85	24.00	—	WM2407-ND	.86	.77	.51	43645-0900
	10	30.85	27.00	—	WM2408-ND	.92	.82	.55	43645-1000
	11	33.85	30.00	—	WM2409-ND	1.00	.89	.59	43645-1100
	12	36.85	33.00	—	WM2410-ND	1.08	.95	.64	43645-1200
Micro-Fit Plug Housing without Panel Mounts									
10	2	6.85	3.00	—	WM1855-ND	.57	.51	.34	43640-0201
	3	9.85	6.00	—	WM1856-ND	.61	.54	.36	43640-0301
	4	12.85	9.00	—	WM1857-ND	.65	.58	.39	43640-0401
	5	15.85	12.00	—	WM1858-ND	.71	.63	.42	43640-0501
	6	18.85	15.00	—	WM1859-ND	.76	.67	.45	43640-0601
	7	21.85	18.00	—	WM2417-ND	.76	.67	.45	43640-0701
	8	24.85	21.00	—	WM2418-ND	.80	.71	.48	43640-0801
	9	27.85	24.00	—	WM2419-ND	.86	.77	.51	43640-0901
	10	30.85	27.00	—	WM2420-ND	.92	.82	.55	43640-1001
	11	33.85	30.00	—	WM2421-ND	1.00	.89	.59	43640-1101
	12	36.85	33.00	—	WM2422-ND	1.08	.95	.64	43640-1201
Micro-Fit Plug Housing with Panel Mounts									
11	2	6.85	3.00	—	WM1850-ND	.57	.51	.34	43640-0200
	3	9.85	6.00	—	WM1851-ND	.61	.55	.37	43640-0300
	4	12.85	9.00	—	WM1852-ND	.65	.58	.39	43640-0400
	5	15.85	12.00	—	WM1853-ND	.71	.63	.42	43640-0500
	6	18.85	15.00	—	WM1854-ND	.76	.67	.45	43640-0600
	7	21.85	18.00	—	WM2411-ND	.76	.67	.45	43640-0700
	8	24.85	21.00	—	WM2412-ND	.80	.71	.48	43640-0800
	9	27.85	24.00	—	WM2413-ND	.86	.77	.51	43640-0900
	10	30.85	27.00	—	WM2414-ND	.92	.82	.55	43640-1000
	11	33.85	30.00	—	WM2415-ND	1.00	.89	.59	43640-1100
	12	36.85	33.00	—	WM2416-ND	1.08	.95	.64	43640-1200
Micro-Fit Header — Right Angle									
12	2	6.85	3.00	Tin	WM1860-ND	1.23	1.09	.73	43650-0200
	3	9.85	6.00	Tin	WM1861-ND	1.47	1.30	.87	43650-0300
	4	12.85	9.00	Tin	WM1862-ND	1.71	1.51	1.01	43650-0400
	5	15.85	12.00	Tin	WM1863-ND	1.93	1.71	1.14	43650-0500
	6	18.85	15.00	Tin	WM1864-ND	2.16	1.91	1.28	43650-0600
	7	21.85	18.00	Tin	WM2423-ND	2.41	2.14	1.43	43650-0700
	8	24.85	21.00	Tin	WM2424-ND	2.59	2.29	1.53	43650-0800
	9	27.85	24.00	Tin	WM2425-ND	2.89	2.55	1.70	43650-0900
	10	30.85	27.00	Tin	WM2426-ND	3.12	2.75	1.84	43650-1000
	11	33.85	30.00	Tin	WM2427-ND	3.35	2.96	1.98	43650-1100
	12	36.85	33.00	Tin	WM2428-ND	3.58	3.16	2.11	43650-1200
	2	6.85	3.00	Gold	WM1865-ND	1.55	1.37	.92	43650-0201
	3	9.85	6.00	Gold	WM1866-ND	1.83	1.62	1.08	43650-0301
	4	12.85	9.00	Gold	WM1867-ND	2.11	1.86	1.24	43650-0401
	5	15.85	12.00	Gold	WM1868-ND	2.40	2.12	1.42	43650-0501
	6	18.85	15.00	Gold	WM1869-ND	2.72	2.40	1.60	43650-0601
	7	21.85	18.00	Gold	WM2429-ND	3.00	2.66	1.77	43650-0701
	8	24.85	21.00	Gold	WM2430-ND	3.30	2.92	1.95	43650-0801
	9	27.85	24.00	Gold	WM2431-ND	3.59	3.17	2.11	43650-0901
	10	30.85	27.00	Gold	WM2432-ND	3.87	3.42	2.28	43650-1001
	11	33.85	30.00	Gold	WM2433-ND	4.16	3.68	2.45	43650-1101
	12	36.85	33.00	Gold	WM2434-ND	4.45	3.93	2.62	43650-1201
Micro-Fit Header — Right Angle with Retention Clip									
13	2	6.85	3.00	Tin	WM1870-ND	1.54	1.36	.91	43650-0203
	3	9.85	6.00	Tin	WM1871-ND	1.77	1.56	1.04	43650-0303
	4	12.85	9.00	Tin	WM1872-ND	1.92	1.70	1.13	43650-0403
	5	15.85	12.00	Tin	WM1873-ND	2.14	1.89	1.26	43650-0503
	6	18.85	15.00	Tin	WM1874-ND	2.43	2.15	1.44	43650-0603
	7	21.85	18.00	Tin	WM2435-ND	2.63	2.32	1.55	43650-0703
	8	24.85	21.00	Tin	WM2436-ND	2.87	2.54	1.69	43650-0803
	9	27.85	24.00	Tin	WM2437-ND	3.10	2.74	1.83	43650-0903
	10	30.85	27.00	Tin	WM2438-ND	3.33	2.94	1.96	43650-1003
	11	33.85	30.00	Tin	WM2439-ND	3.56	3.15	2.10	43650-1103
	12	36.85	33.00	Tin	WM2440-ND	3.79	3.35	2.23	43650-1203
	2	6.85	3.00	Gold	WM1875-ND	1.75	1.55	1.03	43650-0204
	3	9.85	6.00	Gold	WM1876-ND	2.04	1.81	1.21	43650-0304
	4	12.85	9.00	Gold	WM1877-ND	2.34	2.07	1.38	43650-0404
	5	15.85	12.00	Gold	WM1878-ND	2.69	2.38	1.59	43650-0504
	6	18.85	15.00	Gold	WM1879-ND	2.89	2.55	1.70	43650-0604
	7	21.85	18.00	Gold	WM2441-ND	3.54	3.13	2.09	43650-0704
	8	24.85	21.00	Gold	WM2442-ND	3.57	3.15	2.10	43650-0804
	9	27.85	24.00	Gold	WM2443-ND	3.86	3.41	2.27	43650-0904
	10	30.85	27.00	Gold	WM2444-ND	4.14	3.66	2.44	43650-1004
	11	33.85	30.00	Gold	WM2445-ND	4.43	3.91	2.61	43650-1104
	12	36.85	33.00	Gold	WM2446-ND	4.71	4.16	2.78	43650-1204
Micro-Fit Header — Right Angle, SMT with Retention Clip									
14	2	6.85	3.00	Tin	WM1880-ND	2.85	2.52	1.68	43650-0209
	3	9.85	6.00	Tin	WM1881-ND	3.16	2.79	1.86	43650-0309
	4	12.85	9.00	Tin	WM1882-ND	3.46	3.06	2.04	43650-0409
	5	15.85	12.00	Tin	WM1883-ND	3.74	3.30	2.20	43650-0509
	6	18.85	15.00	Tin	WM1884-ND	4.02	3.55	2.37	43650-0609
	7	21.85	18.00	Tin	WM2447-ND	3.81	3.36	2.24	43650-0709
	8	24.85	21.00	Tin	WM2448-ND	3.39	2.99	2.00	43650-0809
	9	27.85	24.00	Tin	WM2449-ND	4.69	4.14	2.76	43650-0909
	10	30.85	27.00	Tin	WM2450-ND	5.48	4.84	3.23	43650-1009
	11	33.85	30.00	Tin	WM2451-ND	5.76	5.08	3.39	43650-1109
	12	36.85	33.00	Tin	WM2452-ND	6.03	5.32	3.55	43650-1209
	2	6.85	3.00	Gold	WM1885-ND	3.24	2.86	1.91	43650-0210
	3	9.85	6.00	Gold	WM1886-ND	3.61	3.19	2.13	43650-0310
	4	12.85	9.00	Gold	WM1887-ND	4.00	3.54	2.36	43650-0410
	5	15.85	12.00	Gold	WM1888-ND	4.33	3.82	2.55	43650-0510
	6	18.85	15.00	Gold	WM1889-ND	4.68	4.14	2.76	43650-0610
	7	21.85	18.00	Gold	WM2453-ND	4.50	3.97	2.65	43650-0710
	8	24.85	21.00	Gold	WM2454-ND	4.11	3.63	2.42	43650-0810
	9	27.85	24.00	Gold	WM2455-ND	5.26	4.64	3.10	43650-0910
	10	30.85	27.00	Gold	WM2456-ND	6.40	5.66	3.77	43650-1010
	11	33.85	30.00	Gold	WM2457-ND	6.76	5.97	3.98	43650-1110
	12	36.85	33.00	Gold	WM2458-ND	7.12	6.28	4.19	43650-1210
Micro-Fit Header — Right Angle, SMT with Fitting Nail									
15	2	6.85	3.00	Tin	WM1890-ND	3.00	2.65	1.77	43650-0212
	3	9.85	6.00	Tin	WM1891-ND	3.30	2.92	1.95	43650-0312
	4	12.85	9.00	Tin	WM1892-ND	3.63	3.21	2.14	43650-0412
	5	15.85	12.00	Tin	WM1893-ND	3.88	3.43	2.29	43650-0512
	6	18.85	15.00	Tin	WM1894-ND	4.16	3.67	2.45	43650-0612
	7	21.85	18.00	Tin	WM2459-ND	4.71	4.16	2.78	43650-0712
	8	24.85	21.00	Tin	WM2460-ND	5.06	4.47	2.98	43650-0812
	9	27.85	24.00	Tin	WM2461-ND	5.34	4.72	3.15	43650-0912
	10	30.85	27.00	Tin	WM2462-ND	5.62	4.97	3.31	43650-1012
	11	33.85	30.00	Tin	WM2463-ND	5.90	5.21	3.48	43650-1112
	12	36.85	33.00	Tin	WM2464-ND	6.17	5.45	3.63	43650-1212
	2	6.85	3.00	Gold	WM1895-ND	3.38	2.98	1.99	43650-0213
	3	9.85	6.00	Gold	WM1896-ND	3.76	3.32	2.22	43650-0313
	4	12.85	9.00	Gold	WM1897-ND	4.12	3.64	2.43	43650-0413-P
	5	15.85	12.00	Gold	WM1898-ND	4.48	3.95	2.64	43650-0513
	6	18.85	15.00	Gold	WM1899-ND	4.82	4.26	2.84	43650-0613
	7	21.85	18.00	Gold	WM2465-ND	5.45	4.81	3.21	43650-0713
	8	24.85	21.00	Gold	WM2466-ND	5.87	5.19	3.46	43650-0813
	9	27.85	24.00	Gold	WM2467-ND	6.21	5.49	3.66	43650-0913
	10	30.85	27.00	Gold	WM2468-ND	6.55	5.78	3.86	43650-1013
	11	33.85	30.00	Gold	WM2469-ND	6.90	6.10	4.07	43650-1113
	12	36.85	33.00	Gold	WM2470-ND	7.26	6.41	4.27	43650-1213

(Continued)

Micro-Fit 3.0™ Connectors *(Cont.)*

Fig. 16

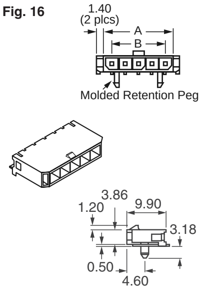

Fig. 17

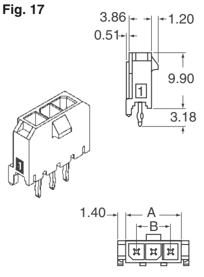

Fig. 18 – Blind Mate

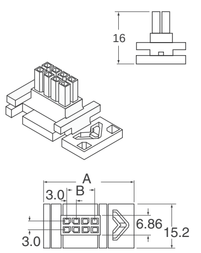

Fig. 19 – Blind Mate

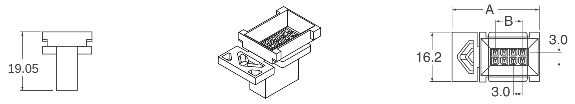

Fig.	Cir-cuits	Dimension (mm)		Plating	Digi-Key Part No.	Price Each			Molex Part No.
		A	B			1	10	100	
Micro-Fit Header — Right Angle, SMT with Retention Peg									
16	3	9.85	6.00	Tin	WM1901-ND	2.69	2.37	1.59	43650-0306
	4	12.85	9.00	Tin	WM1902-ND	2.96	2.62	1.75	43650-0406
	6	18.85	15.00	Tin	WM1904-ND	3.47	3.06	2.04	43650-0606
	3	9.85	6.00	Gold	WM1906-ND	3.10	2.74	1.83	43650-0307
	4	12.85	9.00	Gold	WM1907-ND	3.21	2.84	1.89	43650-0407
Micro-Fit Header — Vertical, Wire-to-Board									
17	2	6.85	3.00	Tin	WM1917-ND	1.01	.90	.60	43650-0215
	3	9.85	6.00	Tin	WM1918-ND	1.40	1.24	.83	43650-0315
	4	12.85	9.00	Tin	WM1 919-ND	1.41	1.25	.83	43650-0415
	5	15.85	12.00	Tin	WM1920-ND	1.59	1.41	.94	43650-0515
	6	18.85	15.00	Tin	WM1921-ND	1.78	1.57	1.05	43650-0615
	7	21.85	18.00	Tin	WM2471-ND	2.02	1.79	1.19	43650-0715
	8	24.85	21.00	Tin	WM2472-ND	2.22	1.96	1.31	43650-0815
	9	27.85	24.00	Tin	WM2473-ND	2.42	2.14	1.43	43650-0915
	10	30.85	27.00	Tin	WM2474-ND	2.61	2.30	1.54	43650-1015
	11	33.85	30.00	Tin	WM2475-ND	2.80	2.48	1.65	43650-1115
	12	36.85	33.00	Tin	WM2476-ND	2.98	2.64	1.76	43650-1215
	2	6.85	3.00	Gold, 15µ"	WM1922-ND	1.27	1.13	.75	43650-0216
	3	9.85	6.00	Gold, 15µ"	WM1923-ND	1.52	1.34	.90	43650-0316
	4	12.85	9.00	Gold, 15µ"	WM1924-ND	1.75	1.55	1.03	43650-0416
	5	15.85	12.00	Gold, 15µ"	WM1925-ND	2.01	1.78	1.19	43650-0516
	6	18.85	15.00	Gold, 15µ"	WM1926-ND	2.24	1.98	1.32	43650-0616
	7	21.85	18.00	Gold	WM2477-ND	2.51	2.22	1.48	43650-0716
	8	24.85	21.00	Gold	WM2478-ND	2.75	2.43	1.62	43650-0816
	9	27.85	24.00	Gold	WM2479-ND	3.00	2.65	1.77	43650-0916
	10	30.85	27.00	Gold	WM2480-ND	3.15	2.78	1.86	43650-1016
	11	33.85	30.00	Gold	WM2481-ND	3.49	3.08	2.06	43650-1116
	12	36.85	33.00	Gold	WM2482-ND	3.72	3.29	2.19	43650-1216
BMI Receptacle — Panel-to-Panel (Blind Mate)									
18	4	24.60	3.00	—	WM3712-ND	.77	.68	.46	44133-0400
	6	27.70	6.00	—	WM3713-ND	.92	.82	.55	44133-0600
	8	30.70	9.00	—	WM3714-ND	1.05	.93	.62	44133-0800
	10	33.80	12.00	—	WM3715-ND	1.22	1.09	.73	44133-1000
	12	36.80	15.00	—	WM3716-ND	1.45	1.28	.86	44133-1200
	14	39.90	18.00	—	WM3717-ND	1.70	1.50	1.00	44133-1400
	16	42.90	21.00	—	WM3718-ND	1.96	1.74	1.16	44133-1600
	18	46.00	24.00	—	WM3719-ND	2.20	1.94	1.30	44133-1800
	20	49.00	27.00	—	WM3720-ND	2.45	2.17	1.45	44133-2000
	22	51.80	30.00	—	WM3721-ND	2.69	2.38	1.59	44133-2200
	24	54.90	33.00	—	WM3722-ND	2.95	2.60	1.74	44133-2400
BMI Plug — Panel-to-Panel (Blind Mate)									
19	4	22.84	3.00	—	WM3608-ND	.77	.68	.46	44300-0400
	6	25.84	6.00	—	WM3609-ND	.92	.82	.55	44300-0600
	8	28.84	9.00	—	WM3610-ND	1.05	.93	.62	44300-0800
	10	31.84	12.00	—	WM3611-ND	1.22	1.09	.73	44300-1000
	12	34.84	15.00	—	WM3612-ND	1.45	1.28	.86	44300-1200
	14	37.84	18.00	—	WM3613-ND	1.70	1.50	1.00	44300-1400
	16	40.84	21.00	—	WM3614-ND	1.96	1.74	1.16	44300-1600
	18	43.84	24.00	—	WM3615-ND	2.21	1.95	1.30	44300-1800
	20	46.84	27.00	—	WM3616-ND	2.45	2.17	1.45	44300-2000
	22	49.84	30.00	—	WM3617-ND	2.69	2.38	1.59	44300-2200
	24	52.84	33.00	—	WM3618-ND	2.95	2.60	1.74	44300-2400

Micro-Fit 3.0™ Terminals

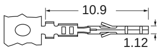

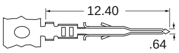

Description	Wire Size AWG	Insul. Dia. (mm)	Digi-Key Part No.	Price Each			Molex Part No.
				10	100	500	
Female-Tin	20-24	1.85	WM1837-ND	.18	.12	.09	43030-0007
			WM1837CT-ND*	—	.12	.09	43030-0001
			WM1837TR-ND†	504.00/12,000			43030-0001
Female-Tin	26-30	1.27	WM1838-ND	.18	.12	.09	43030-0010
Female-30µ" Gold	20-24	1.85	WM1839-ND	.20	.13	.10	43030-0009
Female-30µ" Gold	26-30	1.27	WM1840-ND	.26	.17	.13	43030-0012
Male-Tin	20-24	1.85	WM1841-ND	.18	.12	.09	43031-0007
			WM1841CT-ND*	—	.12	.09	43031-0001
			WM1841TR-ND†	504.00/12,000			43031-0001
Male-Tin	26-30	1.27	WM1842-ND	.18	.12	.09	43031-0010
Male-30µ" Gold	20-24	1.85	WM1843-ND	.29	.19	.15	43031-0009
Male-30µ" Gold	26-30	1.27	WM1844-ND	.29	.19	.15	43031-0012
Female-15µ" Gold	20-24	1.27	WM1125CT-ND*	.12	.10	.08	43030-0002
			WM1125TR-ND†	552.00/12,000			
Male-15µ" Gold	20-24	1.85	WM1127CT-ND*	.13	.11	.09	43031-0002
			WM1127TR-ND†	600.00/12,000			
Universal Crimp Tool (Molex).................			WM9999-ND	50.75/1			63811-1000
Crimp Tool			WM9935-ND	214.65/1			63811-2800
Extraction Tool..................................			WM9937-ND	19.08/1			11-03-0043
Manual Wire Stripper (Molex).................			WM9969-ND	95.16/1			63817-0000

* Cut Tape † Tape and Reel

Mezzanine IEEE 1386 Connectors

Dim. in mm

Fig. 1

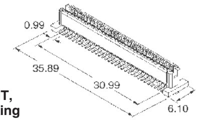

Receptacle, Dual Row, SMT, Vertical Stacking

Fig. 2

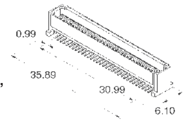

Plug, Dual Row, SMT, Vertical Stacking

Electrical: Voltage: 250V **Current:** 0.5A **Contact Resistance:** 30mΩ maximum **Dielectric Withstanding Voltage:** 250V **Insulation Resistance:** 1,000 MΩ minimum
Mechanical: Contact Retention to Housing: 0.4kgf minimum **Mating Force:** 60g maximum per contact **Unmating Force:** 35g minimum per contact **Durability:** 100 cycles
Physical: Housing: Glass-filled LCP, UL 94V-O **Contact:** Phosphor bronze **Plating:** 0.76µm (30µ") Gold min. **Temperature:** -15°C ~ 85°C
Feature: Mated height on these parts are only 10 millimeters.

Fig.	Circuits	Digi-Key Part No.	Price Each			Molex Part No.
			1	10	100	
1	64	WM17201-ND	7.34	6.48	4.32	71439-0164
2	64	WM17200-ND	8.01	7.07	4.72	71436-2164

NEW! Mezzanine Connectors
Plateau HS Mezz™

RoHS COMPLIANT

Fig. 1

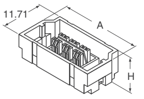

Receptacle

Fig. 2

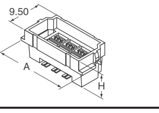

Plug

Features: Unique Gold-plated-plastic integrated shielding system designed for high-speed differential signaling greater than 10 Gbps • Contacts on 1.20mm (.047") pitch arranged in isolated differential pairs on 3.50mm (.138") pitch with SMT leads for controlled impedance • Reflow Capable (SMT only)
Physical: Housing: LCP Liquid Crystal Polymer, UL 94V-O **Color:** Gold **Contact:** Brass (CuZn) **Plating Contact:** Gold (Au) **Temperature Range:** -20°C ~ 85°C
Electrical: Voltage: 30V maximum **Current:** 1.5A maximum **Withstanding Voltage:** 500V/1min. **Contact Resistance:** 25mΩ maximum **Insulation Resistance:** 1,000 MΩ minimum

Fig.	No. of Circuits	No. of Differential Pairs	Dimension (mm)		Digi-Key Part No.	Price Each			Molex Part No.
			A	H		1	10	100	
1	12	6	22.23	7.25	WM17202CT-ND*	15.68	13.84	9.23	75005-0304
					WM17202TR- ND†	1683.82/275			75005-0304
	12	6	22.30	9.25	WM17203CT-ND*	21.40	18.89	12.59	75005-0306
					WM17203TR-ND†	1805.32/216			75005-0306
	24	12	32.76	7.25	WM17204CT-ND*	14.38	12.69	8.46	75005-0004
					WM17204TR-ND†	1544.67/275			75005-0004
	24	12	32.83	9.25	WM17205CT-ND*	15.89	14.03	9.35	75005-0006
					WM17205TR-ND†	1334.72/215			75005-0006
	48	24	53.82	7.25	WM17206CT-ND*	27.26	24.05	16.04	75005-0104
					WM17206TR-ND†	2927.65/275			75005-0104
	72	36	74.88	7.25	WM17207CT-ND*	38.60	34.06	22.71	75005-0204
					WM17207TR-ND†	4145.90/275			75005-0204
2	12	6	19.93	8.25	WM17208-ND	20.05	17.69	11.80	75003-0305
	12	6	19.93	11.25	WM17209-ND	20.50	18.09	12.06	75003-0308
	12	6	19.93	13.25	WM17210-ND	20.95	18.49	12.33	75003-0310
	24	12	30.46	8.25	WM17211-ND	17.85	15.75	10.50	75003-0005
	24	12	30.46	11.25	WM17212-ND	21.26	18.77	12.51	75003-0008
	24	12	30.46	13.25	WM17213-ND	22.96	20.26	13.51	75003-0010
	48	24	51.52	8.25	WM17214-ND	33.87	29.89	19.93	75003-0105
	48	24	51.52	13.25	WM17215-ND	43.96	38.79	25.86	75003-0110
	72	36	72.58	8.25	WM17216-ND	48.19	42.52	28.35	75003-0205
	72	36	72.58	13.25	WM17217-ND	62.60	55.24	36.83	75003-0210

* Cut Tape † Tape and Reel

MicroCross™ Digital Visual Interface (DVI) Connector System

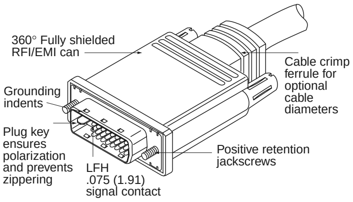
360° Fully shielded RFI/EMI can
Cable crimp ferrule for optional cable diameters
Grounding indents
Plug key ensures polarization and prevents zippering
LFH .075 (1.91) signal contact
Positive retention jackscrews

The MicroCross DVI I/O Connectors from Molex are leading the way in support of the Digital Display Working Group (DDWG) DVI interface standard. MicroCross DVI has been chosen by the DDWG as the standard digital interface for connecting a host device and display device to support high-resolution video applications. Supporting one or two digital channels driven by Transition Minimized Differential Signaling (TMDS) and/or a high bandwidth analog interface, the MicroCross was chosen by the DDWG for its size, performance and cost. No other interface in the industry compares. The innovative crossing ground blade design and Low Force Helix (LFH™) contact interface design provides the industry with a video interface design that will support over 1.65Gb/s per differential pair (for a total 9.9Gb/s over a dual link implementation) and 2.5GHz support for the analog interface. This provides the industry the performance head room it needs for future growth and development of video products.This innovative approach addresses the problem of an industry in transition. By providing a single high performance interface, precious board I/O space is saved and lower system costs are achieved. The interface provides added benefits of a high cycle life interface for mobile applications and the improved EMI performance needed for high speed links. The EMI performance is achieved through the 360° shielding of the MicroCross DVI cable and connector design. The MicroCross DVI connector system and the DVI standard are moving the graphics industry to the next level by providing unmatched electrical and mechanical performance while allowing for low cost implementation.

Fig. 1

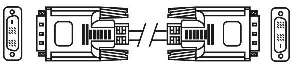

Fig. 2

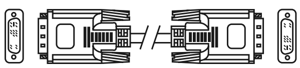

Fig. 3

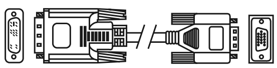

Fig. 4

Fig. 5

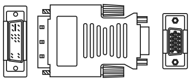

Fig. 6

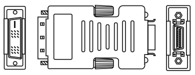

Fig. 7

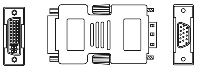

Fig. 8

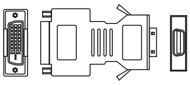

Fig. 9

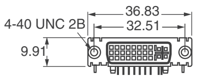

Fig. 10

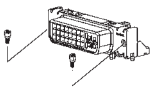

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	DVI-Digital to DVI-Digital, Single Link	WM18509-ND	37.44	34.32	31.20	88741-8000
2	DVI-Analog to DVI-Analog	WM18510-ND	37.26	34.16	31.06	88741-8200
3	DVI-Analog to VGA	WM18511-ND	30.50	27.96	25.42	88741-8300
4	DVI-Digital to DFP	WM18512-ND	40.52	37.15	33.77	88741-8600
5	DVI-Analog Plug to VGA Receptacle	WM18513-ND	10.62	9.74	8.85	88741-8700
6	DVI-Digital Plug to DFP Receptacle	WM18514-ND	17.10	15.68	14.26	88741-8800
7	DVI-I-Analog/Digital Receptacle to VGA Plug	WM18515-ND	19.69	18.05	16.41	88741-9100
8	DVI-Digital Receptacle to DFP Plug	WM18516-ND	22.95	21.04	19.13	88741-9300
9	DVI-I R/Angle Receptacle, Gold Flash	WM5600-ND	5.21	4.78	4.35	74320-1004
10	DVI-D R/Angle Receptacle, Gold Flash	WM5601-ND	4.91	4.50	4.10	74320-4004

NEW! High Definition Multimedia (HDMI) Interface Connector System

RoHS COMPLIANT

Dim. in mm

Fig. 1

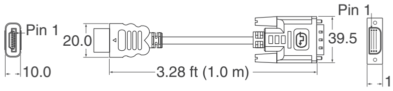

Fig. 3

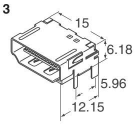

Fig. 2

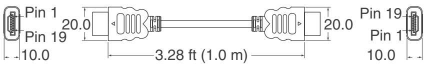

Fig. 4

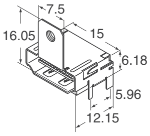

High Definition Multimedia Interface (HDMI) connectors and cable assemblies provide an uncompressed digital link between consumer electronics equipment such as DVD players, set-top boxes and audio/video monitors such as plasma display screens for high-definition Televisions.
HDMI is a small, user-friendly interconnect that provides up to 5 Gbps of bandwidth to support high-definition video plus multi-channel audio in a single cable.

HDMI Receptacle

Features: • Optional mounting flange offers screw panel mounting and grounding • Dimples provide additional impedance control • Wide solder tabs for PCB hold-down • Grounding fingers provide mechanical and electrical stability.
Specifications: • **Circuits/Positions:** 19 • **Pitch/Center Spacing:** 0.50mm (.020") • **Voltage:** 40V maximum • **Current:** 0.5A maximum

Cable Assembly

Features: • Compact, user-friendly design-meets consumer equipment needs • HDMI-DVI cables-DVI backward compatible • Mounting flange-protects solder joints; additional grounding • Signal layout-low impedance mismatch • Fully shielded-ESD protection.
Specifications: • **Gender:** Male to Male • **Cable Length:** 1.0m (3.28 feet) • Shielded • **Wire Size:** 28AWG

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	HDMI to DVI-Digital Cable Assembly	WM19082-ND	14.76	13.53	12.30	88768-3500
2	HDMI to HDMI Cable Assembly	WM19083-ND	13.39	12.28	11.16	88768-9800
3	HDMI Receptacle, Right Angle, SMT	WM19084CT-ND*	5.61	5.15	4.68	500254-1927
		WM19084TR-ND†		1636.00/500		500254-1927
4	Panel Mount HDMI Receptacle, Right Angle with Screw Flange, SMT	WM19085-ND	5.61	5.15	4.68	500254-1931

* Cut Tape † Tape and Reel

Serial ATA Connectors

Fig. 1

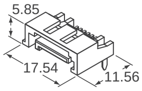

Fig. 2

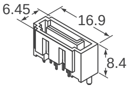

Fig. 3

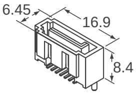

Fig. 4

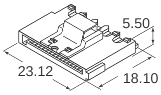

Fig. 5

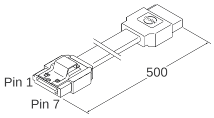

Fig. 6

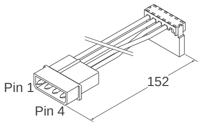

Fig.	No. of Pos.	Description	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
1	7	Header Right Angle SMT	WM19021CT-ND*	1.60	14.15	94.31	47080-1005
			WM19021TR-ND†		316.80/480		47080-1005
2	7	Header Vertical Through Hole	WM19022-ND	1.51	13.35	88.99	67800-4005
3	7	Header Vertical SMT	WM19023-ND	2.12	18.69	124.58	67800-1005
4	15	Plug Latching IDT	WM19024-ND	1.42	12.55	83.64	67926-0001
—	5	IDT Feed Through Cover	WM19025-ND	.25	2.24	14.95	67926-0041
—	5	IDT Feed To Cover	WM19026-ND	.25	2.24	14.95	67926-0040
5	7	Cable Assembly	WM19027-ND	3.40	29.98	199.86	68561-0014
6	15	Cable Assembly	WM19028-ND	1.63	14.43	96.17	68561-0019

* Cut Tape † Tape and Reel

Mini-Fit Jr.™ Connectors

Positive Locking Hi-Density Power Connector

Current Carrying Capabilities: The Mini-Fit, Jr. can handle standard equipment I/O currents despite its small size. For example, the 2 circuit PCB connector can handle up to 9 amps at 250 volts.

Features: • UL recognized, CSA certified, and TUV licensed • Up to 9 amperes/circuit • 250 volt rating

Specifications: • **Material:** Terminal: Brass; Plating: Tin; Housing: UL 94V-2, UL 94V-0 nylon 6/6 • **Voltage Current:** 250V (Vertical Header with Pegs: 600V) • **Contact Resistance:** 10mΩ maximum • **Insulation Resistance:** 1,000MΩ minimum • **Dielectric Strength:** 1,500VAC

Fig. 1 – Dual Row Receptacle (Female Contacts Sold Separately)

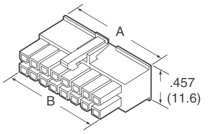

Fig. 2 – Dual Row Plug - Panel Mount or Free Hanging (Male Contacts Sold Separately)

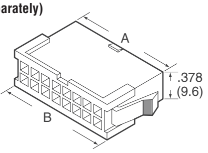

Fig. 3 – Single Row Receptacle (Female Contacts Sold Separately)

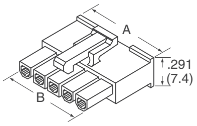

Fig. 4 – Single Row Plug - Panel Mount or Free Hanging (Male Contacts Sold Separately)

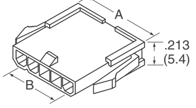

Fig. 5 – Vertical Header Assembly

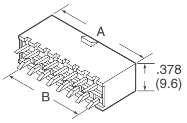

Fig. 6 – Right Angle Dual Row

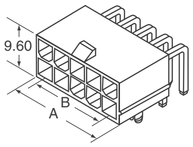

Fig. 7 – Right Angle Header

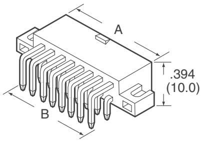

Fig. 8 – Vertical Header with Pegs

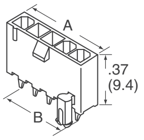

Fig. 9 – Right Angle Header with Pegs

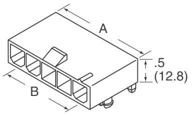

Fig. 10 – Strain Relief use with Fig. 1

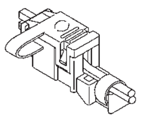

Fig.	Circuits	Amps	Dimension – Inch (mm)		Digi-Key Part No.	Price Each			Molex Part No.
			A	B		1	10	100	
UL94V-2									
1	2	9	.213 (5.40)	—	WM3700-ND	.46	.41	.28	39-01-2020
	4	8	.378 (9.60)	.165 (4.20)	WM3701-ND	.51	.46	.31	39-01-2040
	6	8	.543 (13.80)	.331 (8.40)	WM3702-ND	.61	.55	.37	39-01-2060
	8	7	.709 (18.00)	.496 (12.60)	WM3703-ND	.68	.60	.40	39-01-2080
	10	7	.874 (22.20)	.661 (16.80)	WM3704-ND	.79	.70	.47	39-01-2100
	12	6	1.039 (26.40)	.827 (21.00)	WM3705-ND	.88	.78	.52	39-01-2120
	14	6	1.205 (30.60)	.992 (25.20)	WM3706-ND	1.05	.93	.62	39-01-2140
	16	6	1.370 (34.80)	1.158 (29.40)	WM3707-ND	1.06	.94	.63	39-01-2160
	18	6	1.535 (39.00)	1.323 (33.60)	WM3708-ND	1.22	1.08	.72	39-01-2180
	20	6	1.701 (43.20)	1.488 (37.80)	WM3709-ND	1.32	1.10	.78	39-01-2200
	22	6	1.866 (47.40)	1.654 (42.00)	WM3710-ND	2.18	1.93	1.29	39-01-2220
	24	6	2.031 (51.60)	1.819 (46.20)	WM3711-ND	1.45	1.29	.86	39-01-2240
2	2	9	.213 (5.40)	—	WM3600-ND	.55	.49	.33	39-01-2021
	4	8	.378 (9.60)	.165 (4.20)	WM3601-ND	.60	.53	.36	39-01-2041
	6	8	.543 (13.80)	.331 (8.40)	WM3602-ND	.64	.56	.38	39-01-2061
	8	7	.709 (18.00)	.496 (12.60)	WM3603-ND	.68	.60	.40	39-01-2081
	10	7	.874 (22.20)	.661 (16.80)	WM3604-ND	.79	.70	.47	39-01-2101
	12	6	1.039 (26.40)	.827 (21.00)	WM3605-ND	.81	.72	.48	39-01-2121
	14	6	1.205 (30.60)	.992 (25.20)	WM3606-ND	1.08	.96	.64	39-01-2141
	16	6	1.370 (34.80)	1.158 (29.40)	WM3607-ND	1.40	1.24	.83	39-01-2161
3	3	9	.543 (13.80)	.331 (8.40)	WM18434-ND*§	.54	.48	.32	39-01-4030
	4	8	.709 (18.01)	.496 (12.60)	WM18435-ND§	.63	.56	.37	39-01-4040
	5	8	.874 (22.20)	.661 (16.80)	WM18436-ND§	.67	.60	.40	39-01-4050
4	3	9	.543 (13.80)	.331 (8.40)	WM18437-ND*†	.59	.52	.35	39-01-4032
	3	9	.543 (13.80)	.331 (8.40)	WM18439-ND*§	.58	.52	.35	39-01-4036
	4	8	.709 (18.01)	.496 (12.60)	WM18440-ND§	.62	.55	.37	39-01-4046
	5	8	.874 (22.20)	.661 (16.80)	WM18438-ND†	.65	.58	.39	39-01-4052
	5	8	.874 (22.20)	.661 (16.80)	WM18441-ND§	.65	.58	.39	39-01-4056
NEW! UL94V-0 — RoHS Compliant NEW!									
1	2	9	.213 (5.40)	—	WM23700-ND	.65	.58	.39	39-01-2025
	4	8	.378 (9.60)	.165 (4.20)	WM23701-ND	.71	.63	.42	39-01-2045
	6	8	.543 (13.80)	.331 (8.40)	WM23702-ND	.89	.79	.53	39-01-2065
	8	7	.709 (18.00)	.496 (12.60)	WM23703-ND	.96	.85	.57	39-01-2085
	10	7	.874 (22.20)	.661 (16.80)	WM23704-ND	1.06	.94	.63	39-01-2105
	12	6	1.039 (26.40)	.827 (21.00)	WM23705-ND	1.22	1.08	.72	39-01-2125
	14	6	1.205 (30.60)	.992 (25.20)	WM23706-ND	1.31	1.16	.77	39-01-2145
	16	6	1.370 (34.80)	1.158 (29.40)	WM23707-ND	1.64	1.45	.97	39-01-2165
	18	6	1.535 (39.00)	1.323 (33.60)	WM23708-ND	1.85	1.63	1.09	39-01-2185
	20	6	1.701 (43.20)	1.488 (37.80)	WM23709-ND	1.99	1.76	1.17	39-01-2205
	22	6	1.866 (47.40)	1.654 (42.00)	WM23710-ND	2.43	2.15	1.43	39-01-2225
	24	6	2.031 (51.60)	1.819 (46.20)	WM23711-ND	2.74	2.43	1.62	39-01-2245
2	2	9	.213 (5.40)	—	WM23600-ND	.74	.66	.44	39-01-2026
	4	8	.378 (9.60)	.165 (4.20)	WM23601-ND	.85	.76	.51	39-01-2046
	6	8	.543 (13.80)	.331 (8.40)	WM23602-ND	1.01	.89	.60	39-01-2066
	8	7	.709 (18.00)	.496 (12.60)	WM23603-ND	1.06	.94	.63	39-01-2086
	10	7	.874 (22.20)	.661 (16.80)	WM23604-ND	1.13	1.00	.67	39-01-2106
	12	6	1.039 (26.40)	.827 (21.00)	WM23605-ND	1.18	1.04	.70	39-01-2126
	14	6	1.205 (30.60)	.992 (25.20)	WM23606-ND	1.40	1.24	.83	39-01-2146
	16	6	1.370 (34.80)	1.158 (29.40)	WM23607-ND	1.71	1.51	1.01	39-01-2166
3	3	9	.543 (13.80)	.331 (8.40)	WM23608-ND*§	.78	.69	.46	39-01-4031
	4	8	.709 (18.01)	.496 (12.60)	WM23609-ND§	.87	.77	.51	39-01-4041
	5	8	.874 (22.20)	.661 (16.80)	WM23610-ND§	.93	.82	.55	39-01-4051
4	3	9	.543 (13.80)	.331 (8.40)	WM23611-ND*†	.82	.73	.49	39-01-4033
	4	8	.709 (18.01)	.496 (12.60)	WM23612-ND§	.90	.79	.53	39-01-4047
	5	8	.874 (22.20)	.661 (16.80)	WM23613-ND†	.96	.85	.57	39-01-4053
Tin Plated									
5	2	9	.210 (5.40)	—	WM3800-ND	.93	.82	.55	39-28-1023
	4	8	.380 (9.60)	.170 (4.20)	WM3801-ND	1.17	1.04	.70	39-28-1043
	6	8	.540 (13.80)	.330 (8.40)	WM3802-ND	1.53	1.35	.91	39-28-1063
	8	7	.710 (18.00)	.500 (12.60)	WM3803-ND	1.74	1.54	1.03	39-28-1083
	10	7	.870 (22.20)	.660 (16.80)	WM3804-ND	2.24	1.98	1.32	39-28-1103
	12	6	1.040 (26.40)	.825 (20.96)	WM3805-ND	2.17	1.92	1.28	39-28-1123
	14	6	1.200 (31.60)	.990 (25.20)	WM3806-ND	2.88	2.55	1.70	39-28-1143
	16	6	1.370 (34.80)	1.160 (29.40)	WM3807-ND	3.19	2.82	1.88	39-28-1163
	18	6	1.540 (39.00)	1.320 (33.60)	WM3808-ND	4.02	3.55	2.37	39-28-1183
	20	6	1.700 (43.20)	1.490 (37.80)	WM3809-ND	4.40	3.89	2.59	39-28-1203
	22	6	1.870 (47.40)	1.650 (42.00)	WM3810-ND	4.78	4.23	2.82	39-28-1223
	24	6	2.030 (51.60)	1.820 (46.20)	WM3811-ND	4.73	4.18	2.79	39-28-1243
NEW! Tin Plated — RoHS Compliant NEW!									
5	2	9	.210 (5.40)	—	WM23800-ND	.89	.79	.53	39-28-8020
	4	8	.380 (9.60)	.170 (4.20)	WM23801-ND	1.30	1.16	.77	39-28-8040
	6	8	.540 (13.80)	.330 (8.40)	WM23802-ND	1.79	1.58	1.06	39-28-8060
	8	7	.710 (18.00)	.500 (12.60)	WM23803-ND	2.17	1.92	1.28	39-28-8080
	10	7	.870 (22.20)	.660 (16.80)	WM23804-ND	2.56	2.26	1.51	39-28-8100
	12	6	1.040 (26.40)	.825 (20.96)	WM23805-ND	2.84	2.51	1.67	39-28-8120
	14	6	1.200 (31.60)	.990 (25.20)	WM23806-ND	3.26	2.88	1.93	39-28-8140
	16	6	1.370 (34.80)	1.160 (29.40)	WM23807-ND	3.70	3.27	2.18	39-28-8160
	18	6	1.540 (39.00)	1.320 (33.60)	WM23808-ND	4.16	3.67	2.45	39-28-8180
	20	6	1.700 (43.20)	1.490 (37.80)	WM23809-ND	4.62	4.08	2.72	39-28-8200
	22	6	1.870 (47.40)	1.650 (42.00)	WM23810-ND	5.08	4.49	2.99	39-28-8220
	24	6	2.030 (51.60)	1.820 (46.20)	WM23811-ND	5.55	4.90	3.27	39-28-8240
30µ” Gold Plated									
5	2	9	.210 (5.40)	—	WM3820-ND	2.11	1.87	1.25	39-29-0023
	4	8	.380 (9.60)	.170 (4.20)	WM3821-ND	3.29	2.90	1.94	39-29-0043
	6	8	.540 (13.80)	.330 (8.40)	WM3822-ND	4.49	3.96	2.64	39-29-0063
	8	7	.710 (18.00)	.500 (12.60)	WM3823-ND	5.66	5.00	3.33	39-29-0083
	10	7	.870 (22.20)	.660 (16.80)	WM3824-ND	6.77	5.97	3.98	39-29-0103
	12	6	1.040 (26.40)	.830 (21.00)	WM3825-ND	7.89	6.96	4.64	39-29-0123
	14	6	1.200 (30.60)	.990 (25.20)	WM3826-ND	9.20	8.12	5.41	39-29-0143
	16	6	1.370 (34.80)	1.160 (29.40)	WM3827-ND	10.38	9.16	6.11	39-29-0163
	18	6	1.540 (39.00)	1.320 (33.60)	WM3828-ND	11.61	10.25	6.83	39-29-0183
	20	6	1.700 (43.20)	1.490 (37.80)	WM3829-ND	12.84	11.33	7.56	39-29-0203
	22	6	1.870 (47.40)	1.650 (42.00)	WM3830-ND	14.07	12.42	8.28	39-29-0223
	24	6	2.030 (51.60)	1.820 (46.20)	WM3831-ND	15.30	13.50	9.00	39-29-0243
NEW! 30µ” Gold Plated — RoHS Compliant NEW!									
5	2	9	.210 (5.40)	—	WM23820-ND	1.83	1.62	1.08	39-29-6028
	4	8	.380 (9.60)	.170 (4.20)	WM23821-ND	3.08	2.72	1.82	39-29-6048
	6	8	.540 (13.80)	.330 (8.40)	WM23822-ND	4.39	3.88	2.59	39-29-6068
	8	7	.710 (18.00)	.500 (12.60)	WM23823-ND	5.41	4.78	3.19	39-29-6088
	10	7	.870 (22.20)	.660 (16.80)	WM23824-ND	6.64	5.86	3.91	39-29-6108
	12	6	1.040 (26.40)	.830 (21.00)	WM23825-ND	7.80	6.89	4.59	39-29-6128
	14	6	1.200 (30.60)	.990 (25.20)	WM23826-ND	9.11	8.04	5.36	39-29-6148
	16	6	1.370 (34.80)	1.160 (29.40)	WM23827-ND	10.20	9.00	6.00	39-29-6168
	18	6	1.540 (39.00)	1.320 (33.60)	WM23828-ND	10.80	9.54	6.36	39-29-6188
	20	6	1.700 (43.20)	1.490 (37.80)	WM23829-ND	12.74	11.25	7.50	39-29-6208
	22	6	1.870 (47.40)	1.650 (42.00)	WM23830-ND	14.02	12.38	8.25	39-29-6228
	24	6	2.030 (51.60)	1.820 (46.20)	WM23831-ND	15.29	13.50	9.00	39-29-6248

‡ Without drain holes. † Panel Mount § Free-Hanging
* 3-circuit receptacle designed for first-mate/last-break applications

(Continued)

molex Waldom
ELECTRONICS

Mini-Fit Jr.™ Connectors *(Cont.)*

Positive Locking Hi-Density Power Connector

Fig.	Circuits	Amps	Dimension – Inch (mm) A	Dimension – Inch (mm) B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
				Tin Plated					
6	2	9	.213 (5.40)	—	WM1351-ND	.91	.81	.54	39-30-1020
	4	8	.378 (9.60)	.165 (4.20)	WM1352-ND	1.33	1.18	.79	39-30-1040
	6	8	.543 (13.80)	.331 (8.40)	WM1353-ND	1.63	1.44	.96	39-30-1060
	8	7	.709 (18.00)	.496 (12.60)	WM1354-ND	1.96	1.74	1.16	39-30-1080
	10	7	.874 (22.20)	.661 (16.80)	WM1355-ND	2.33	2.06	1.38	39-30-1100
	12	6	1.039 (26.40)	.827 (21.00)	WM1356-ND	2.91	2.57	1.72	39-30-1120
	14	6	1.205 (30.60)	.992 (25.20)	WM1357-ND	3.20	2.83	1.89	39-30-1140
	16	6	1.370 (34.80)	1.158 (29.40)	WM1358-ND	3.71	3.27	2.18	39-30-1160
	18	6	1.535 (39.00)	1.323 (33.60)	WM1359-ND	3.99	3.53	2.35	39-30-1180
	20	6	1.701 (43.20)	1.488 (37.80)	WM1360-ND	4.59	4.05	2.70	39-30-1200
	22	6	1.866 (47.40)	1.654 (42.00)	WM1361-ND	5.16	4.56	3.04	39-30-1220
	24	6	2.031 (51.60)	1.819 (46.20)	WM1362-ND	5.76	5.09	3.39	39-30-1240
				NEW! Tin Plated — RoHS Compliant NEW!					
6	2	9	.213 (5.40)	—	WM21351-ND	1.11	.99	.66	39-30-0020
	4	8	.378 (9.60)	.165 (4.20)	WM21352-ND	1.45	1.28	.86	39-30-0040
	6	8	.543 (13.80)	.331 (8.40)	WM21353-ND	1.81	1.60	1.07	39-30-0060
	8	7	.709 (18.00)	.496 (12.60)	WM21354-ND	2.21	1.95	1.30	39-30-0080
	10	7	.874 (22.20)	.661 (16.80)	WM21355-ND	2.65	2.35	1.57	39-30-0100
	12	6	1.039 (26.40)	.827 (21.00)	WM21356-ND	3.14	2.77	1.85	39-30-0120
	14	6	1.205 (30.60)	.992 (25.20)	WM21357-ND	3.70	3.27	2.18	39-30-0140
	16	6	1.370 (34.80)	1.158 (29.40)	WM21358-ND	4.29	3.79	2.53	39-30-0160
	18	6	1.535 (39.00)	1.323 (33.60)	WM21359-ND	4.97	4.39	2.93	39-30-0180
	20	6	1.701 (43.20)	1.488 (37.80)	WM21360-ND	5.72	5.05	3.37	39-30-0200
	22	6	1.866 (47.40)	1.654 (42.00)	WM21361-ND	6.46	5.71	3.81	39-30-0220
	24	6	2.031 (51.60)	1.819 (46.20)	WM21362-ND	6.79	6.00	4.00	39-30-0240
				30μ" Gold Plated					
6	2	9	.213 (5.40)	—	WM1363-ND	1.97	1.74	1.16	39-30-1021
	4	8	.378 (9.60)	.165 (4.20)	WM1364-ND	2.51	2.22	1.48	39-30-1041
	6	8	.543 (13.80)	.331 (8.40)	WM1365-ND	3.10	2.74	1.83	39-30-1061
	8	7	.709 (18.00)	.496 (12.60)	WM1366-ND	3.75	3.31	2.21	39-30-1081
	10	7	.874 (22.20)	.661 (16.80)	WM1367-ND	4.46	3.94	2.63	39-30-1101
	12	6	1.039 (26.40)	.827 (21.00)	WM1368-ND	5.23	4.62	3.08	39-30-1121
	14	6	1.205 (30.60)	.992 (25.20)	WM1369-ND	6.15	5.43	3.62	39-30-1141
	16	6	1.370 (34.80)	1.158 (29.40)	WM1370-ND	7.10	6.27	4.18	39-30-1161
	18	6	1.535 (39.00)	1.323 (33.60)	WM1371-ND	8.21	7.25	4.84	39-30-1181
	20	6	1.701 (43.20)	1.488 (37.80)	WM1372-ND	9.44	8.33	5.56	39-30-1201
	22	6	1.866 (47.40)	1.654 (42.00)	WM1373-ND	10.64	9.40	6.27	39-30-1221
	24	6	2.031 (51.60)	1.819 (46.20)	WM1374-ND	11.90	10.51	7.01	39-30-1241
				NEW! 30μ" Gold Plated — RoHS Compliant NEW!					
6	2	9	.213 (5.40)	—	WM21363-ND	2.46	2.17	1.45	39-30-1022
	4	8	.378 (9.60)	.165 (4.20)	WM21364-ND	3.19	2.82	1.88	39-30-1042
	6	8	.543 (13.80)	.331 (8.40)	WM21365-ND	3.99	3.52	2.35	39-30-1062
	8	7	.709 (18.00)	.496 (12.60)	WM21366-ND	4.87	4.30	2.87	39-30-1082
	10	7	.874 (22.20)	.661 (16.80)	WM21367-ND	5.84	5.16	3.44	39-30-1102
6	12	6	1.039 (26.40)	.827 (21.00)	WM21368-ND	6.89	6.08	4.06	39-30-1122
	14	6	1.205 (30.60)	.992 (25.20)	WM21369-ND	8.13	7.18	4.79	39-30-1142
	16	6	1.370 (34.80)	1.158 (29.40)	WM21370-ND	9.43	8.32	5.55	39-30-1162
	18	6	1.535 (39.00)	1.323 (33.60)	WM21371-ND	10.75	9.49	6.33	39-30-1182
	20	6	1.701 (43.20)	1.488 (37.80)	WM21372-ND	12.58	11.10	7.41	39-30-1202
	22	6	1.866 (47.40)	1.654 (42.00)	WM21373-ND	14.21	12.54	8.36	39-30-1222
	24	6	2.031 (51.60)	1.819 (46.20)	WM21374-ND	15.93	14.06	9.38	39-30-1242
				Tin Plated					
7	2	9	.606 (15.40)	—	WM3900-ND	1.05	.93	.63	39-29-1028
	4	8	.772 (19.60)	.165 (4.20)	WM3901-ND	1.34	1.19	.79	39-29-1048
	6	8	.937 (23.80)	.331 (23.80)	WM3902-ND	1.64	1.45	.97	39-29-1068
	8	7	1.102 (28.00)	.496 (12.60)	WM3903-ND	1.98	1.75	1.17	39-29-1088
	10	7	1.268 (32.20)	.661 (16.80)	WM3904-ND	2.35	2.08	1.39	39-29-1108
	12	6	1.433 (36.40)	.827 (21.00)	WM3905-ND	2.76	2.44	1.63	39-29-1128
	14	6	1.598 (40.60)	.992 (25.20)	WM3906-ND	3.24	2.86	1.91	39-29-1148
	16	6	1.764 (44.80)	1.158 (29.40)	WM3907-ND	3.74	3.30	2.20	39-29-1168
	18	6	1.929 (49.00)	1.323 (33.60)	WM3908-ND	4.33	3.83	2.55	39-29-1188
	20	6	2.094 (53.20)	1.488 (37.80)	WM3909-ND	4.96	4.38	2.92	39-29-1208
	22	6	2.260 (57.40)	1.654 (42.00)	WM3910-ND	5.65	4.99	3.33	39-29-1228
	24	6	2.425 (61.60)	1.819 (46.20)	WM3911-ND	6.24	5.51	3.68	39-29-1248
				30μ" Gold Plated					
7	2	9	.606 (15.40)	—	WM3920-ND	2.15	1.90	1.27	39-29-5023
	4	8	.772 (19.60)	.165 (4.20)	WM3921-ND	2.62	2.31	1.54	39-29-5043
	6	8	.937 (23.80)	.331 (8.40)	WM3922-ND	3.62	3.20	2.13	39-29-5063
	8	7	1.102 (28.00)	.496 (12.60)	WM3923-ND	4.29	3.79	2.53	39-29-5083
	10	7	1.268 (32.20)	.661 (16.80)	WM3924-ND	5.05	4.46	2.97	39-29-5103
	12	6	1.433 (36.40)	.827 (21.00)	WM3925-ND	5.86	5.17	3.45	39-29-5123
	14	6	1.598 (40.60)	.992 (25.20)	WM3926-ND	6.81	6.01	4.01	39-29-5143
	16	6	1.764 (44.80)	1.158 (29.40)	WM3927-ND	7.81	6.90	4.60	39-29-5163
	18	6	1.929 (49.00)	1.323 (33.60)	WM3928-ND	8.97	7.92	5.28	39-29-5183
	20	6	2.094 (53.20)	1.488 (37.80)	WM3929-ND	10.24	9.04	6.03	39-29-5203
	22	6	2.260 (57.40)	1.654 (42.00)	WM3930-ND	11.50	10.15	6.77	39-29-5223
	24	6	2.425 (61.60)	1.819 (46.20)	WM3931-ND	12.81	11.31	7.54	39-29-5243
				Tin Plated					
8	3	9	.543 (13.80)	.331 (8.40)	WM18442-ND‡	1.17	1.04	.70	39-30-1039
	3	9	.543 (13.80)	.331 (8.40)	WM18443-ND	1.17	1.04	.70	39-30-2035
	4	8	.709 (18.01)	.496 (12.60)	WM18444-ND	1.86	1.64	1.10	39-30-2045
	5	8	.874 (22.20)	.661 (16.80)	WM18445-ND	2.05	1.81	1.21	39-30-2056
9	3	9	.543 (13.80)	.331 (8.40)	WM18446-ND	1.40	1.24	.83	39-30-3035
	4	8	.709 (18.01)	.496 (12.60)	WM18447-ND	1.64	1.45	.97	39-30-3045
	5	8	.874 (22.20)	.661 (16.80)	WM18448-ND	1.89	1.67	1.11	39-30-3055
				NEW! 30μ" Gold — RoHS Compliant NEW!					
8	3	9	.543 (13.80)	.331 (8.40)	WM23932-ND	2.38	2.11	1.41	39-30-2037
	4	8	.709 (18.0)	.496 (12.60)	WM23933-ND	3.02	2.67	1.78	39-30-2047
	5	8	.874 (22.20)	.661 (16.80)	WM23934-ND	3.87	3.42	2.28	39-30-2058
				NEW! 30μ" Gold — RoHS Compliant NEW!					
9	3	9	.54 (13.80)	.331 (8.40)	WM23935-ND	2.45	2.16	1.44	39-30-3037
	4	8	.709 (18.0)	.496 (12.60)	WM23936-ND	2.91	2.57	1.72	39-30-3047
	5	8	.874 (22.20)	.661 (16.80)	WM23937-ND	3.37	2.98	1.99	39-30-3057
				Strain Relief (use with Fig. 1)					
10	6	—	—	—	WM13702-ND	2.78	—	—	15-04-0296
	8	—	—	—	WM13703-ND	2.36	—	—	15-04-0343
	12	—	—	—	WM13705-ND	3.00	—	—	15-04-0345

‡ Without drain holes. † Panel Mount § Free-Hanging
* 3-circuit receptacle designed for first-mate/last-break applications

Mini-Fit Jr.™ Terminals

Contact Material/Plating
A: Tin-plated copper alloy over nickel
B: Gold-plated phosphor bronze over nickel
C: Gold-plated brass over nickel
D: Tin-plated brass over copper
E: Tin-plated phosphor bronze.

Male

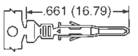

Female

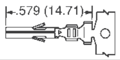

Description	Wire Size	Material/ Plating	Insulation Dia. Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Male	16	A	.071 - .122 (1.80 - 3.10)	WM1911-ND	.37	.31	.22	44478-3112
Female				WM1913-ND	.37	.31	.22	44476-3112
Male	16	B	.071 - .122 (1.80 - 3.10)	WM18520-ND	1.00	.83	.59	39-00-0224
Female				WM18517-ND	1.00	.83	.59	39-00-0186
Male	16	C	.071 - .122 (1.80 - 3.10)	WM5963-ND	.74	.62	.44	39-00-0096
Female				WM5961-ND	.68	.57	.41	39-00-0168
Male	18-24	D	.051 - .122 (1.30 - 3.10)	WM2500-ND	—	.08	.06	39-00-0041
				WM2500CT-ND◊	—	—	.06	39-00-0040
				WM2500TR-ND	124.00/4,000			39-00-0040
Female	18-24	D	.051 - .122 (1.30 - 3.10)	WM2501-ND	—	.10	.07	39-00-0039
				WM2501CT-ND◊	—	—	.07	39-00-0038
				WM2501TR-ND	160.00/4,000			39-00-0038
Male	18-24	B	.051 - .122 (1.30 - 3.10)	WM18521-ND	1.00	.83	.59	39-00-0220
Female	18-24	B	.051 - .122 (1.30 - 3.10)	WM18518-ND	.87	.72	.52	39-00-0182
				WM18518CT-ND◊	—	—	.52	39-00-0181
				WM18518TR-ND◊	1372.00/4,000			39-00-0181
Male	18-20	A	.051 - .122 (1.30 - 3.10)	WM1912-ND	.37	.31	.22	44478-1112
Female				WM1914-ND	.37	.31	.22	44476-1112
Female	18-24	B	.060 - .120 (1.52 - 3.05)	WM18523-ND	1.08	.89	.64	44485-1212
Male	18-24	D	.051 - .122 (1.30 - 3.10)	WM3940-ND*	.32	.26	.19	30490-2012
		C		WM6049-ND	.67	.56	.40	39-00-0054
Female	18-24	C	.051 - .122 (1.30 - 3.10)	WM5959-ND	.68	.56	.40	39-00-0164
Male		B		WM3941-ND*	1.04	.86	.61	30490-1012
Female	18-24	C	.051 - .122 (1.30 - 3.10)	WM1137CT-ND◊	—	.44	.36	39-00-0055
				WM1137TR-ND◊	776.00/4,000			
Female	18-24	E	.051 - .122 (1.30 - 3.10)	WM1138CT-ND◊	—	.12	.10	39-00-0059
				WM1138TR-ND◊	208.00/4,000			
Female	18-24	B	.051 - .122 (1.30 - 3.10)	WM1139CT-ND◊	—	.39	.31	39-00-0153
				WM1139TR-ND◊	684.00/4,000			
Male	22-28	D	.035 - .071 (.90 - 1.80)	WM2502-ND	—	.08	.06	39-00-0049
Female				WM2503-ND	—	.08	.06	39-00-0047
Male	22-28	B	.035 - .071 (.90 - 1.80)	WM18522-ND	.96	.80	.57	39-00-0222
Female				WM18519-ND	.87	.72	.52	39-00-0184
Male	22-28	C	.035 - .071 (.90 - 1.80)	WM5962-ND	.74	.62	.44	39-00-0088
Female				WM5960-ND	.68	.56	.40	39-00-0166
Universal Crimp Tool (Molex)				WM9999-ND	50.75	—	—	63811-1000
Mini-Fit Jr. Crimp Tool, 16 AWG				WM9964-ND	214.65	—	—	11-01-0199
Mini-Fit Jr. Crimp Tool, 18-24 AWG				WM9912-ND	214.65	—	—	11-01-0197
Mini-Fit Jr. Crimp Tool, 22-28 AWG				WM9913-ND	214.65	—	—	11-01-0198
Extraction Tool				WM9918-ND	20.23	—	—	11-03-0044

* Grounding pin ◊ CT = Cut Tape; TR = Tape and Reel

Mini-Fit BMI™ Connectors

Fig. 1 - Receptacle with Panel Mount Ears

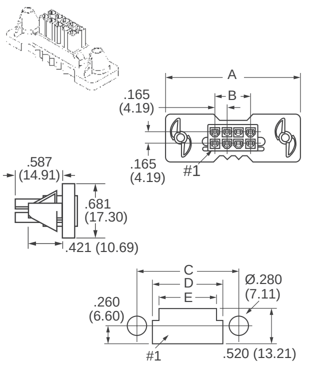

PCB Thickness: .050 (1.27)
PCB Cutout

Fig. 2 - Plug with Panel Mount Ears

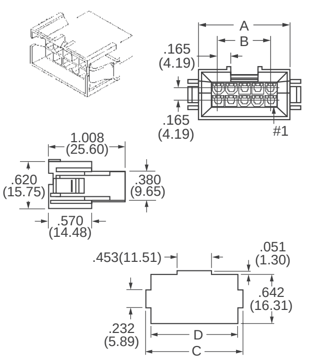

PCB Thickness: .063 (1.60)
PCB Cutout

Fig. 3 - Vertical Receptacle Header

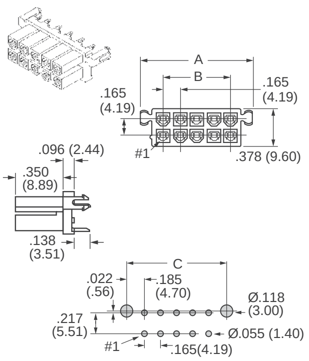

PCB Thickness: .070 (1.78)
Layout: Component Side

Fig. 4 - Vertical Header

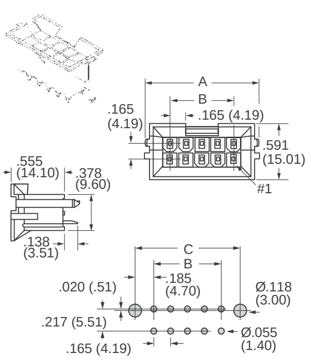

PCB Thickness: .070 (1.78)
Layout: Component Side

Fig. 5 - Right Angle Header

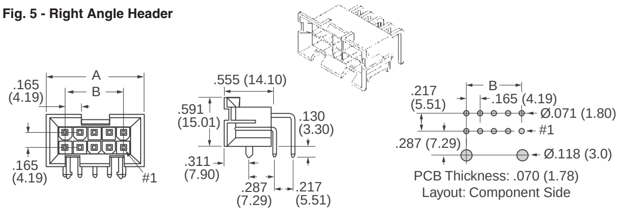

PCB Thickness: .070 (1.78)
Layout: Component Side

Features and Benefits: • Blind mating • Will mate with Mini-Fit, Jr. • Fully isolated terminals to protect contacts from damage • Uses standard Mini-Fit series terminals • UL File No.: E29179 • CSA File No.: LR19980 • TUV License No.: R75142

Specifications: • **Voltage:** 600V • **Current:** 9.0A • **Contact Resistance:** 10mΩ minimum • **Dielectric Withstanding Voltage:** 1500V • **Insulation Resistance:** 1000MΩ minimum

Physical: • **Housing:** 6/6 nylon, UL 94V-2 • **Temperature:** -40°C ~ 105°C

Fig.	Circuits	Dimensions – Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
					Receptacle with Panel Mount Ears						
1	4	1.583 (40.21)	.165 (4.19)	1.150 (29.21)	.693 (17.60)	.508 (12.90)	WM17500-ND	.93	.82	.55	15-06-0040
	6	1.748 (44.40)	.331 (8.41)	1.315 (33.40)	.858 (21.79)	.673 (17.09)	WM17501-ND	.91	.80	.54	15-06-0060
	10	2.078 (52.78)	.661 (16.79)	1.645 (41.78)	1.189 (30.20)	1.004 (25.50)	WM17502-ND	1.37	1.21	.81	15-06-0100
	14	2.409 (61.19)	.992 (25.20)	1.976 (50.19)	1.520 (38.61)	1.335 (33.91)	WM17503-ND	1.83	1.62	1.08	15-06-0140
					Plug with Panel Mount Ears						
2	4	.622 (15.80)	.165 (4.19)	.779 (19.79)	.642 (16.31)	—	WM17700-ND	.73	.65	.44	15-06-0045
	6	.787 (19.99)	.331 (8.41)	.945 (20.50)	.807 (20.50)	—	WM17701-ND	.83	.73	.49	15-06-0065
	10	1.118 (52.78)	.661 (16.79)	1.276 (28.91)	1.138 (28.91)	—	WM17702-ND	.97	.86	.57	15-06-0105
	14	1.449 (36.80)	.992 (25.20)	1.606 (38.61)	1.469 (37.31)	—	WM17703-ND	1.32	1.17	.78	15-06-0145
					Vertical Receptacle Header						
3	4	.615 (15.62)	.165 (4.19)	.535 (13.59)	—	—	WM17600-ND	2.14	1.89	1.26	15-24-7040
	6	.780 (19.81)	.331 (8.41)	.701 (17.81)	—	—	WM17601-ND	2.53	2.24	1.49	15-24-7060
	10	1.111 (28.22)	.661 (16.79)	1.031 (26.19)	—	—	WM17602-ND	3.49	3.08	2.06	15-24-7100
	14	1.442 (36.63)	.992 (25.20)	1.362 (34.59)	—	—	WM17603-ND	4.03	3.56	2.38	15-24-7140
					Vertical Header						
4	4	.685 (17.40)	.170 (4.32)	.535 (13.59)	—	—	WM17900-ND	1.96	1.73	1.16	15-24-6046
	10	1.181 (30.00)	.660 (16.76)	1.031 (26.19)	—	—	WM17901-ND	3.10	2.74	1.83	15-24-6106
	14	1.512 (38.40)	.990 (25.15)	1.362 (34.59)	—	—	WM17902-ND	3.99	3.52	2.35	15-24-6146

Fig.	Circuits	Dimensions – Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
					Right Angle Header						
5	4	.165 (4.19)	.590 (14.99)	—	—	—	WM17800-ND	1.89	1.67	1.12	15-24-6040
	6	.760 (19.30)	.331 (8.41)	—	—	—	WM17801-ND	2.64	2.33	1.56	15-24-6060
	10	1.090 (27.69)	.661 (16.79)	—	—	—	WM17802-ND	3.72	3.29	2.19	15-24-6100
	14	1.420 (36.07)	.992 (25.20)	—	—	—	WM17803-ND	4.28	3.78	2.52	15-24-6140

Description	Wire Size	Material/ Plating	Insulation Dia. Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Male Female	16	Tin-Plated copper alloy over nickel	.071 - .122 (1.80 - 3.10)	WM1911-ND WM1913-ND	.37 .37	.31 .31	.22 .22	44478-3112 44476-3112
Male Female	18-20	Tin-Plated copper alloy over nickel	.051 - .122 (1.30 - 3.10)	WM1912-ND WM1914-ND	.37 .37	.31 .31	.22 .22	44478-1112 44476-1112
Female	18-24	Gold-plated phosphor bronze over nickel	.060 - .120 (1.52 - 3.05)	WM18523-ND	1.08	.89	.64	44485-1212

Mini-Fit, HCS™ Connectors

Dual Row, Vertical, Without Pegs

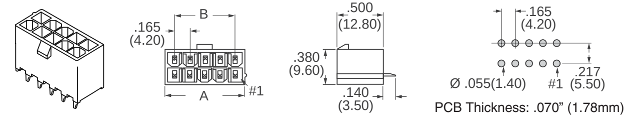

PCB Thickness: .070" (1.78mm)

Circuits	Amps	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
2	12	.210 (5.40)	—	WM18449-ND	1.29	1.14	.76	44472-0254
4	11	.380 (9.60)	.170 (4.20)	WM18450-ND	1.94	1.72	1.15	44472-0454
6	11	.540 (13.80)	.330 (8.40)	WM18451-ND	2.59	2.29	1.53	44472-0654
8	10	.710 (18.00)	.500 (12.60)	WM18452-ND	3.68	3.25	2.17	44472-0854
10	10	.870 (22.20)	.660 (16.80)	WM18453-ND	3.87	3.42	2.28	44472-1054
12	9	1.040 (26.40)	.830 (21.00)	WM18454-ND	4.20	3.71	2.48	44472-1254
14	9	1.200 (30.60)	.990 (25.20)	WM18455-ND	5.17	4.56	3.04	44472-1454
16	9	1.370 (34.80)	1.160 (29.40)	WM18456-ND	5.81	5.13	3.42	44472-1654

Mini-Fit, SMC™ Connectors

Surface Mount Compatible Headers, Dual Row

Fig. 1 – Right Angle

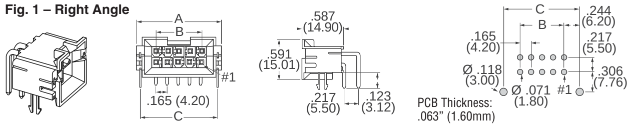

PCB Thickness:
.063" (1.60mm)

Fig. 2 – Vertical

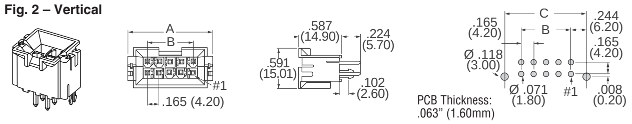

PCB Thickness:
.063" (1.60mm)

Fig.	Circuits	Dimension – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	4	.740 (18.81)	.165 (4.20)	.653 (16.60)	WM18457-ND	4.24	3.75	2.50	43810-0001
	6	.906 (23.01)	.331 (8.40)	.819 (20.80)	WM18458-ND	5.32	4.69	3.13	43810-0002
	10	1.237 (31.41)	.661 (16.80)	1.150 (29.20)	WM18459-ND	7.57	6.69	4.46	43810-0004
2	4	.740 (18.81)	.165 (4.20)	.653 (16.60)	WM18460-ND	3.83	3.38	2.26	44068-0001
	6	.906 (23.01)	.331 (8.40)	.819 (20.80)	WM18461-ND	4.80	4.24	2.83	44068-0002
	10	1.237 (31.41)	.661 (16.80)	1.150 (29.20)	WM18462-ND	6.83	6.03	4.02	44068-0004

5.08mm Disk Drive Power Connection System

Fig. 1 - Receptacle Housing

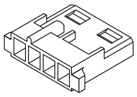

Fig. 2 - Vertical Header

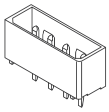

Fig.	Circuit	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	4	Receptacle Housing	WM6982-ND	.87	.77	.52	15-24-4048
2	4	Vertical Header	WM6987-ND	2.16	1.91	1.27	15-24-4557

Power Connection Terminals

Description	Wire Size	Max. Insulation Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Female	AWG 14-20	.133 (3.39)	WM6983-ND	.29	.26	.18	02-08-1202
Male	AWG 14-20	.133 (3.39)	WM6984-ND	.29	.26	.18	02-08-1235
Universal Crimp Tool (Molex)........................			WM9999-ND	50.75/1			63811-1000
Manual Wire Stripper (Molex)			WM9969-ND	50.75/1			63817-0000

Mini-Fit, Sr.™ Connectors (50 Amps)

Features: • High current (50 amp) • Fully polarized • Positive locks • Low engagement force • Wire-to-wire, wire-to-board. **Electrical:** *Voltage:* 600V *Current:* 50A maximum **Physical:** *Housing:* Polyester *Contact:* Copper alloy *Plating:* Tin/lead over nickel *Temperature:* -40°C ~ 105°C **Approvals:** UL File No.: E29179, CSA File No.: LR19980, TUV License No.: R9751144

Fig. 1

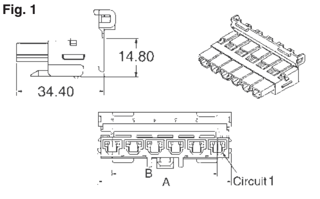

Fig. 2

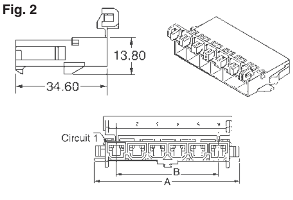

Fig. 3

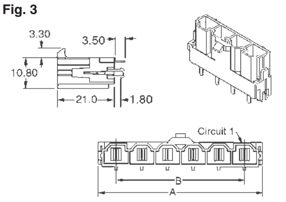

Fig. 4

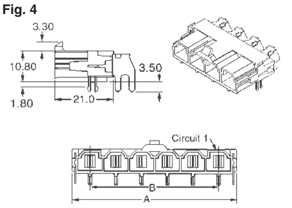

Fig.	Circuits	Dimensions (mm) A	B	Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Mini-Fit, Sr. Receptacle Housing									
1	2	23.50	10.00	Tin	WM1927-ND	1.82	1.61	1.08	42816-0212
	3	33.50	20.00	Tin	WM1928-ND	2.03	1.80	1.20	42816-0312
	4	43.50	30.00	Tin	WM1929-ND	2.25	1.99	1.33	42816-0412
	5	53.50	40.00	Tin	WM1930-ND	2.46	2.18	1.45	42816-0512
	6	63.50	50.00	Tin	WM1931-ND	2.70	2.38	1.59	42816-0612
Mini-Fit, Sr. Plug Housing — Panel Mount									
2	2	31.30	10.00	Tin	WM1932-ND	1.84	1.63	1.09	42818-0212
	3	41.30	20.00	Tin	WM1933-ND	2.03	1.79	1.20	42818-0312
	4	51.30	30.00	Tin	WM1934-ND	2.25	1.99	1.33	42818-0412
	5	61.30	40.00	Tin	WM1935-ND	2.46	2.18	1.45	42818-0512
	6	71.30	50.00	Tin	WM1936-ND	2.67	2.36	1.57	42818-0612
Mini-Fit, Sr. Header — Vertical with Metal Clip Mount, SMC*									
3	2	23.82	10.00	Tin	WM1937-ND	3.92	3.47	2.31	42819-2212
	3	33.82	20.00	Tin	WM1938-ND	5.22	4.61	3.07	42819-3212
	4	43.82	30.00	Tin	WM1939-ND	5.98	5.28	3.52	42819-4212
	5	53.82	40.00	Tin	WM1940-ND	6.77	5.98	3.99	42819-5212
	6	63.82	50.00	Tin	WM1941-ND	7.99	7.06	4.71	42819-6212
Mini-Fit, Sr. Header — Right Angle with Metal Clip Mount, SMC*									
4	2	23.82	10.00	Tin	WM1942-ND	5.34	4.71	3.14	42820-2212
	3	33.82	20.00	Tin	WM1943-ND	7.22	6.37	4.25	42820-3212
	4	43.82	30.00	Tin	WM1944-ND	8.68	7.67	5.11	42820-4212
	5	53.82	40.00	Tin	WM1945-ND	10.20	9.00	6.00	42820-5212
	6	63.82	50.00	Tin	WM1946-ND	11.91	10.51	7.01	42820-6212

* Surface Mount Compatible

Mini-Fit, Sr.™ Terminals

Fig. 1

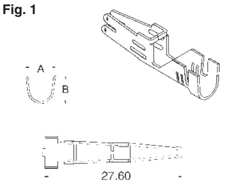

Fig. 2

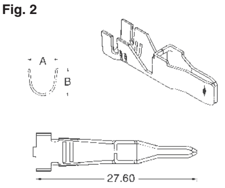

Fig.	Wire Size AWG	Dimension (mm) A	B	Plating	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Mini-Fit, Sr. Terminal — Female									
1	8	6.00	5.50	Tin	WM1915-ND	.78	.69	.46	42-815-0031
				Gold	WM1949-ND	1.29	1.14	.76	42-815-0032
	10-12	5.90	6.60	Tin	WM1947-ND	.78	.69	.46	42-815-0011
				Gold	WM1951-ND	1.29	1.14	.76	42-815-0012
Mini-Fit, Sr. Terminal — Male									
2	8	6.00	5.50	Tin	WM1916-ND	.78	.69	.46	42-817-0031
				Gold	WM1950-ND	1.29	1.14	.76	42-817-0032
	10-12	5.90	6.60	Tin	WM1948-ND	.78	.69	.46	42-817-0011
				Gold	WM1952-ND	1.29	1.14	.76	42-817-0012
Crimp Tool, 8 AWG					WM9960-ND	405.99	—	—	63811-1500
Crimp Tool, 10-12 AWG					WM9962-ND	405.99	—	—	63811-1600
Extraction Tool					WM9961-ND	72.50	—	—	63813-0400

7.50 Pitch Sabre™ Connectors

Features and Benefits: • Patented new integral Terminal Position Assurance (TPA) on mated male and female terminal • Virtually eliminates terminal backout • Wire-to-wire and wire-to-board connector system • Polarized housing assures proper mating • Terminals are fully isolated in housing • Positive latch reduces accidental disengagement from plug **Electrical Specifications:** • **Voltage:** 1000V • **Current:** 18A • **Contact Resistance:** 10mΩ maximum • **Dielectric Withstanding Voltage:** 5000VAC, 1 minute • **Insulation Resistance:** 1000 mΩ minimum **Mechanical:** • **Contact Insertion Force:** 2 pounds maximum • **Contact Retention to Housing:** 20 pounds minimum • **Wire Pull-Out Force:** 20 pounds minimum • **Mating Force:** 3 pounds maximum • **Unmating Force:** 1 pound minimum • **Normal Force:** 3 pounds nominal • **Durability:** 25 cycles **Physical:** • **Housing:** Nylon, 94V-0 • **Temperature:** -40°C ~ 75°C • **Approvals:** UL File No.: E29179 and Ul1950; CSA File No.: LR19980

Fig. 1 – Receptacle

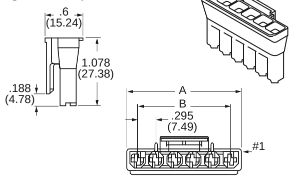

Fig. 2 – Wire-to-Wire Plug

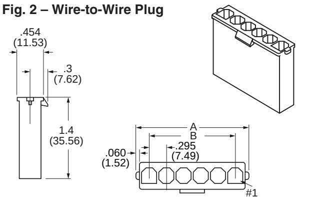

Fig. 3 – Vertical Wire-to-Board Header

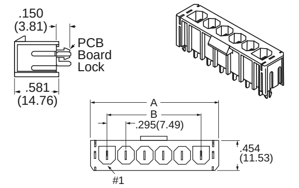

.002" (.062mm) PCB thickness on headers with board lock

Fig. 4 – Right Angle Wire-to-Board Header

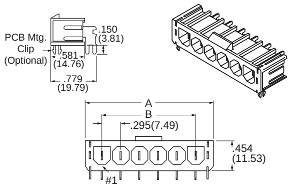

.002" (.062mm) PCB thickness on headers with board lock

Fig.	Cir-cuits	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Single Row Receptacle								
1	2	.623 (15.82)	.295 (7.49)	WM18463-ND	1.02	.91	.61	44441-2002
	3	.918 (23.32)	.590 (14.99)	WM18464-ND	1.19	1.06	.71	44441-2003
	4	1.213 (30.81)	.885 (22.48)	WM18465-ND	1.36	1.20	.80	44441-2004
	5	1.508 (38.30)	1.180 (29.97)	WM18466-ND	1.59	1.40	.94	44441-2005
	6	1.803 (45.80)	1.475 (37.47)	WM18467-ND	1.79	1.58	1.06	44441-2006
Single Row Plug								
2	2	.745 (18.92)	.295 (7.49)	WM18468-ND	1.02	.90	.60	43680-2002
	3	1.040 (26.42)	.590 (14.99)	WM18469-ND	1.20	1.06	.71	43680-2003
	4	1.335 (33.91)	.885 (22.48)	WM18470-ND	1.37	1.21	.81	43680-2004
	5	1.630 (41.40)	1.180 (29.97)	WM18471-ND	1.59	1.40	.94	43680-2005
	6	1.925 (48.90)	1.475 (37.47)	WM18472-ND	1.79	1.58	1.06	43680-2006
Vertical Header, SMC* — Without Board Lock								
3	2	.830 (21.08)	.295 (7.49)	WM18473-ND	2.00	1.77	1.18	43160-0102
	3	1.125 (28.58)	.590 (14.99)	WM18474-ND	2.74	2.42	1.62	43160-0103
	4	1.420 (36.07)	.885 (22.48)	WM18475-ND	2.87	2.54	1.69	43160-0104
	5	1.715 (43.56)	1.180 (29.97)	WM18476-ND	3.32	2.93	1.96	43160-0105
	6	2.010 (51.05)	1.475 (37.47)	WM18477-ND	3.75	3.32	2.21	43160-0106
Vertical Header, SMC* — With Board Lock								
3	2	.830 (21.08)	.295 (7.49)	WM18478-ND	2.21	1.96	1.31	43160-2102
	3	1.125 (28.58)	.590 (14.99)	WM18479-ND	2.67	2.36	1.58	43160-2103
	4	1.420 (36.07)	.885 (22.48)	WM18480-ND	3.24	2.86	1.91	43160-2104
	5	1.715 (43.56)	1.180 (29.97)	WM18481-ND	3.71	3.28	2.19	43160-2105
	6	2.010 (51.05)	1.475 (37.47)	WM18482-ND	4.13	3.65	2.44	43160-2106
Right Angle Header, SMC* — Without Board Lock								
4	2	.830 (21.08)	.295 (7.49)	WM18483-ND	2.20	1.94	1.30	43160-1102
	3	1.125 (28.58)	.590 (14.99)	WM18484-ND	2.67	2.36	1.58	43160-1103
	4	1.420 (36.07)	.885 (22.48)	WM18485-ND	3.14	2.78	1.85	43160-1104
	5	1.715 (43.56)	1.180 (29.97)	WM18486-ND	3.62	3.20	2.13	43160-1105
	6	2.010 (51.05)	1.475 (37.47)	WM18487-ND	4.09	3.62	2.41	43160-1106
Right Angle Header, SMC* — With Board Lock								
4	2	.830 (21.08)	.295 (7.49)	WM18488-ND	2.50	2.21	1.48	43160-3102
	3	1.125 (28.58)	.590 (14.99)	WM18489-ND	2.99	2.65	1.77	43160-3103
	4	1.420 (36.07)	.885 (22.48)	WM18490-ND	3.51	3.10	2.07	43160-3104
	5	1.715 (43.56)	1.180 (29.97)	WM18491-ND	3.95	3.49	2.33	43160-3105
	6	2.010 (51.05)	1.475 (37.47)	WM18492-ND	4.49	3.96	2.64	43160-3106

* Surface Mount Compatible

7.50 Pitch Sabre™ Terminals

Desc.	Wire Size (AWG)	Max. Insul. Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Female	14-18	.130 (3.30)	WM18493-ND	.16	.15	.10	43-375-0001
Male	(2)18		WM18495-ND	.20	.18	.12	43-178-1002
Female	14-18	.180 (4.57)	WM18494-ND	.16	.15	.10	43-375-1001
Male	(2)18		WM18496-ND	.20	.18	.12	43-178-2002

Male

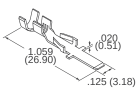

Female

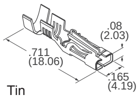

Tin
Plating

Sabre™ Tools

Description	Digi-Key Part No.	Price Each	Molex Part No.
Crimp Tool for 14-18 - Female...............	WM9907-ND*	357.75	63811-0400
Crimp Tool for 14-18 - Male.................	WM9908-ND*	311.09	63811-0600
Extraction Tool - Female.....................	WM9909-ND	33.84	63813-0500
Extraction Tool - Male	WM9910-ND	100.49	63813-0800
Manual Wire Stripper-(Molex)..............	WM9969-ND	95.16	63817-0000

* Will not crimp (2)18 AWG contacts.

Power Connectors

.062" Diameter Connectors

Features: • UL File Number E-29179; CSA File Number LR-19980 • Up to 5 amperes per circuit • 250 Voltage rating • Friction lock • Standard color is natural (*Ratings are per circuit and based on fully loaded housings.*)

Grid Patterns
(Contacts sold separately)

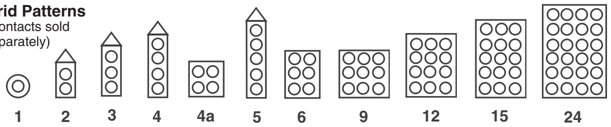

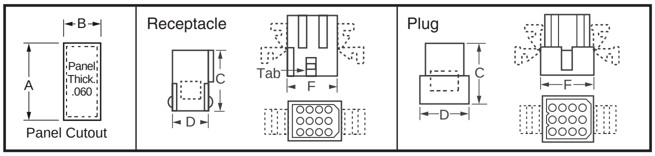

Grid Space	Grid No.	Type	Maximum Amps	V.	Dimensions (Inch) A	B	C	D	F	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Connector Housings — with Detent Only, Free Hanging														
.145"	1	Plug	5	250	—	—	.750	—	—	WM1201-ND	.29	2.36	16.88	03-06-2011
		Recept.	5	250	—	—	.780	—	.183	WM1200-ND	.30	2.51	17.94	03-06-1011
	2	Plug	5	250	.609	.318	.780	.300	.440	WM1220-ND	.31	2.55	18.23	03-06-2023
		Recept.	5	250	.505	.265	.810	.192	.340	WM1230-ND	.39	3.24	23.11	03-06-1023
	3	Plug	5	250	.754	.318	.750	.300	.590	WM1221-ND	.46	3.77	26.93	03-06-2032
		Recept.	5	250	.650	.265	.780	.192	.484	WM1231-ND	.48	3.92	27.99	03-06-1032
	4	Plug	5	250	.865	.312	.750	.295	.730	WM1222-ND	.60	4.94	35.27	03-06-2042
		Recept.	5	250	.785	.260	.780	.192	.630	WM1232-ND	.60	4.94	35.27	03-06-1042
	4a	Plug	5	250	.615	.465	.750	.442	.442	WM1223-ND	.60	4.94	35.27	03-06-2044
		Recept.	5	250	.506	.400	.750	.339	.339	WM1233-ND	.60	4.94	35.27	03-06-1044
	5	Plug	5	250	1.044	.318	.750	.310	.890	WM1224-ND	.60	4.97	35.51	03-06-2055
		Recept.	5	250	.940	.265	.780	.192	.775	WM1234-ND	.74	6.06	43.28	03-06-1056
	6	Plug	5	250	.615	.607	.750	.600	.450	WM1225-ND	.75	6.17	44.10	03-06-2061
		Recept.	5	250	.552	.505	.780	.494	.344	WM1235-ND	.75	6.17	44.10	03-06-1062
	9	Plug	5	250	.752	.615	.750	.590	.590	WM1226-ND	.76	6.30	44.97	03-06-2092
		Recept.	5	250	.650	.552	.780	.494	.489	WM1236-ND	.76	6.30	44.97	03-06-1092
	12	Plug	5	250	.903	.614	.750	.590	.740	WM1227-ND	.78	6.41	45.77	03-06-2122
		Recept.	5	250	.795	.563	.780	.494	.634	WM1237-ND	.78	6.41	45.77	03-06-1122
	15	Plug	5	250	1.042	.614	.750	.590	.880	WM1228-ND	.92	7.58	54.11	03-06-2152
		Recept.	5	250	.934	.563	.780	.487	.776	WM1238-ND	.92	7.58	54.11	03-06-1152
	24	Plug	5	250	1.182	.765	.750	.740	1.040	WM1229-ND	2.17	17.88	127.70	03-06-2242
Connector Housings – with Mounting Ears and Detent, Panel Mount														
.145"	2	Plug	5	250	.609	.318	.780	.300	.440	WM1203-ND	.39	3.18	22.74	03-06-2024
		Recept.	5	250	.505	.265	.810	.192	.340	WM1202-ND	.39	3.18	22.74	03-06-1022
	3	Plug	5	250	.754	.318	.750	.300	.590	WM1205-ND	.46	3.77	26.93	03-06-2033
.145"	3	Recept.	5	250	.650	.265	.780	.192	.484	WM1204-ND	.48	3.92	27.99	03-06-1038
	4	Plug	5	250	.865	.312	.750	.295	.730	WM1207-ND	.60	4.94	35.27	03-06-2041
		Recept.	5	250	.785	.260	.780	.192	.630	WM1206-ND	.62	5.09	36.33	03-06-1041
	4a	Plug	5	250	.615	.465	.750	.442	.442	WM1209-ND	.60	4.94	35.27	03-06-2043
		Recept.	5	250	.506	.400	.750	.339	.339	WM1208-ND	.60	4.94	35.27	03-06-1043
	5	Plug	5	250	1.044	.318	.750	.310	.890	WM1240-ND	.74	6.06	43.28	03-06-2054
		Recept.	5	250	.940	.265	.780	.192	.775	WM1241-ND	.74	6.06	43.28	03-06-1055
	6	Plug	5	250	.615	.607	.750	.600	.450	WM1211-ND	.75	6.17	44.10	03-06-2062
		Recept.	5	250	.552	.505	.780	.494	.344	WM1210-ND	.75	6.17	44.10	03-06-1061
	9	Plug	5	250	.752	.615	.750	.590	.590	WM1213-ND	.76	6.30	44.97	03-06-2091
		Recept.	5	250	.650	.552	.780	.494	.489	WM1212-ND	.76	6.30	44.97	03-06-1091
	12	Plug	5	250	.903	.614	.750	.590	.740	WM1215-ND	.78	6.41	45.77	03-06-2121
		Recept.	5	250	.795	.563	.780	.494	.634	WM1214-ND	.78	6.41	45.77	03-06-1121
	15	Plug	5	250	1.042	.614	.750	.590	.880	WM1217-ND	.92	7.58	54.11	03-06-2151
	24	Plug	5	250	1.182	.765	.750	.740	1.040	WM1219-ND	2.17	17.88	127.70	03-06-2241
		Recept.	5	250	1.079	.715	.750	.634	.918	WM1218-ND	2.10	17.29	123.52	03-06-1241

.062" Terminals

Features: • Use with .062" housings • .008" stock 70/30 brass **Temp. Range:** -40°C ~ 105°C **High Volt. Test:** Withstands 1500V RMS for 60 seconds **Current Rating:** Amperage rating 5A **Storage Temperature Range:** -40°C ~ 125°C **Plating:** 200-300µ Hot-Tin Dip tin plating

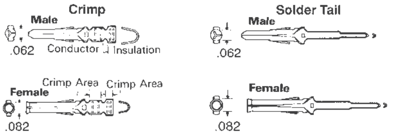

Description	Wire Size	Insulation Dia. (Inch)	Digi-Key Part No.	Pricing 10	100	500	Molex Part No.
Male, Crimp Type	18-24	.060/.120	WM1000-ND	.99	7.92	32.99	02-06-2103
Female, Crimp Type	18-24	.060/.120	WM1001-ND	.85	6.80	28.35	02-06-1103
Male, Crimp Type	24-30	.040/.090	WM1002-ND	.81	6.46	26.90	02-06-2132
Female, Crimp Type	24-30	.040/.090	WM1003-ND	.81	6.46	26.90	02-06-1132
Male, PCB Solder-Tail	—	—	WM1004-ND	1.61	12.88	53.66	02-06-8103
Female, PCB Solder-Tail	—	—	WM1005-ND	1.61	12.88	53.66	02-06-7103
Male, Crimp Type	18-24	.060/.120	WM1006-ND*	5.94	47.54	198.09	02-06-6103
Male, Crimp Type	24-30	.040/.090	WM1007-ND*	5.94	47.54	198.09	02-06-6135
Female, Crimp Type	18-24	.060/.120	WM1008-ND*	5.94	47.54	198.09	02-06-5103
Female, Crimp Type	24-30	.040/.090	WM1009-ND*	5.94	47.54	198.09	02-06-5135
Male, PCB	—	—	WM1010-ND*	7.33	58.61	244.20	02-06-6122
Female, PCB	—	—	WM1011-ND*	7.33	58.61	244.20	02-06-7104
Hand Tool (Waldom)	—	—	WM9900-ND		14.55/1		W-HT-1921
Universal Crimp Tool (Molex)	—	—	WM9999-ND		50.75/1		63811-1000
Production Tool (Molex)	24-30	—	WM9915-ND		214.65/1		11-01-0185
Production Tool (Molex)	18-24	—	WM18585-ND		243.27/1		63811-3300
Extraction Tool (Molex)	—	—	WM9929-ND		19.08/1		11-03-0002

*15µ Select Gold Finish

Cable Connector Designer Kit

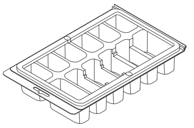

Contains all parts needed to assemble male and female connectors; totals 86 connectors. All have pin terminal size .062" diameter with crimping tool, pin terminal ejector and case. ***RoHS Compliant***

WM9979-ND.. **$71.24**

MLX .084" Power Connectors

Features: • Intermateable, intermountable and interchangeable with industry standard versions • Cross tested to assure industry compatibility • UL recognized, CSA certified • Positive locks • Fully isolated contacts • Circuit I.D. grooves to reduce assembly errors • Anti-stress positioning tabs to reduce breakage

Grid Pattern

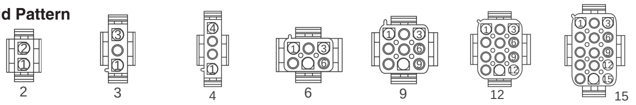

Fig. 1 - Plug

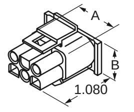

Fig. 2 - Cap

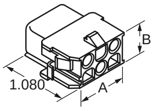

Fig. 3 - Vertical Header

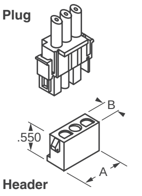

Cap Panel Cutout

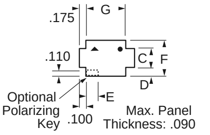

▲ - Circuit #1 location when using polarizing key option with 2, 3 and 4 circuit housing.

● - Circuit #1 location when using polarizing key option with 6, 9, 12 and 15 circuit housing.

2, 3 and 4 Position Vertical Header P.C. Board Layout Dimension

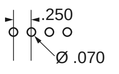

6, 9, 12 and 15 Position Header Assemblies

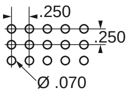

Pos.	Description	Amperes/ Circuit (Max.)*	Voltage Rating (Max.)*	Panel Cutout Dimension (Inch) A	B	C††	D	E	F	G	Digi-Key Part No.	Pricing 1	10	100	500	Molex Part No.
Fig. 1 – Plug																
2	Plug	13.5	600	.300	.550	—	—	—	—	—	WM1242-ND	.59	5.24	34.90	139.60	50-84-1020
3	Plug	13.5	600	.300	.800	—	—	—	—	—	WM1244-ND	.61	5.36	35.72	142.89	50-84-1030
4	Plug	13.5	600	.300	1.050	—	—	—	—	—	WM1246-ND	.64	5.67	37.79	151.16	50-84-1040
6	Plug	11.0	600	.800	.550	—	—	—	—	—	WM1248-ND	.75	6.61	44.10	176.38	50-84-1060
9	Plug	11.0	600	.800	.800	—	—	—	—	—	WM1250-ND	.88	7.74	51.60	206.38	50-84-1090
12	Plug	11.0	600	.800	1.050	—	—	—	—	—	WM1252-ND	1.45	12.82	85.44	341.74	50-84-1120
15	Plug	11.0	600	.800	1.300	—	—	—	—	—	WM1254-ND	1.52	13.38	89.20	356.80	50-84-1150
Fig. 2 – Cap																
2	Cap	13.5	600	.300	.550	.340	.095	.250	.530	.565	WM1243-ND	.67	5.92	39.46	157.83	50-84-2020
3	Cap	13.5	600	.300	.800	.340	.095	.250	.530	.815	WM1245-ND	.66	5.80	38.64	154.55	50-84-2030
4	Cap	13.5	600	.300	1.050	.340	.095	.250	.530	1.065	WM1247-ND	1.09	9.59	63.92	255.67	50-84-2040
6	Cap	11.0	600	.800	.550	.340	.275	.250	1.030	.565	WM1249-ND	1.09	9.62	64.16	256.63	50-84-2060
9	Cap	11.0	600	.800	.800	.480	.275	.250	1.030	.815	WM1251-ND	.98	8.61	57.43	229.70	50-84-2090
12	Cap	11.0	600	.800	1.050	.480	.275	.350	1.030	1.065	WM1253-ND	1.67	14.69	97.95	391.78	50-84-2120
15	Cap	11.0	600	.800	1.300	.480	.275	.350	1.030	1.315	WM1255-ND	1.77	15.64	104.25	417.00	50-84-2150
Fig. 3 – Vertical Header																
2	Male	—	—	.300	.550	—	—	—	—	—	WM1256-ND	1.03	9.12	60.79	243.16	10-84-4020
2	Female	—	—	.300	.550	—	—	—	—	—	WM1263-ND	.89	7.84	52.29	209.14	10-84-4022
3	Male	—	—	.300	.800	—	—	—	—	—	WM1257-ND	1.17	10.37	69.11	276.45	10-84-4030
4	Male	—	—	.300	1.050	—	—	—	—	—	WM1258-ND	1.39	12.25	81.67	326.69	10-84-4040
4	Female	—	—	.300	1.050	—	—	—	—	—	WM1265-ND	1.35	11.87	79.13	316.52	10-84-4042
6	Male	—	—	.800	.550	—	—	—	—	—	WM1259-ND	1.82	16.05	106.98	427.92	10-84-4060
6	Female	—	—	.800	.550	—	—	—	—	—	WM1266-ND	1.89	16.64	110.90	443.61	10-84-4062
9	Male	—	—	.800	.800	—	—	—	—	—	WM1260-ND	2.31	20.40	135.97	543.89	10-84-4090
9	Female	—	—	.800	.800	—	—	—	—	—	WM1267-ND	2.67	23.53	156.85	627.41	10-84-4092
12	Male	—	—	.800	1.050	—	—	—	—	—	WM1261-ND	2.74	24.16	161.07	644.27	10-84-4120
12	Female	—	—	.800	1.050	—	—	—	—	—	WM1268-ND	3.38	29.80	198.67	794.68	10-84-4122
15	Male	—	—	.800	1.300	—	—	—	—	—	WM1262-ND	3.39	29.90	199.36	797.44	10-84-4150
15	Female	—	—	.800	1.300	—	—	—	—	—	WM1269-ND	2.79	24.64	164.27	657.09	10-84-4152

* Ratings are per circuit, based on fully loaded housings
†† Cap housing should be installed into panel in the same direction as the panel cutout is punched

.084" Terminals

Split Pin (Male)

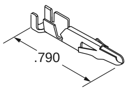

Socket (Female)

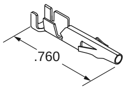

Description	Wire Size AWG Tin Plated	Insulation Dia. (Inch) Min.	Max.	Digi-Key Part No.	Pricing 10	100	500	1,000	Molex Part No.
Male Crimp	14-20	.060	.130	WM1270-ND	1.07	8.59	35.78	57.24	02-08-2004
Female Crimp	14-20	.060	.130	WM1271-ND	1.09	8.75	36.44	58.30	02-08-1002
Hand Tool	14-20	—	—	WM9925-ND			311.09/1		63811-3500
Extraction Tool-	14-20	—	—	WM9921-ND			59.21/1		11-01-0168
Manual Wire Stripper (Molex)				WM9969-ND			95.16/1		63817-0000

molex **Waldom** ELECTRONICS

Power Connectors

.093” Diameter Connectors

Features:
- UL File Number E-29179; CSA File Number LR-19980
- Up to 12 amperes per circuit, (ratings are per circuit and based on fully loaded housings)
- 250 Voltage rating for 03-09 series; 600 Voltage rating for 19-09 series
- Friction lock for 03-09 series; Positive lock for 19-09 series

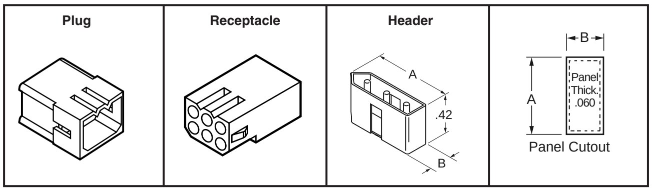

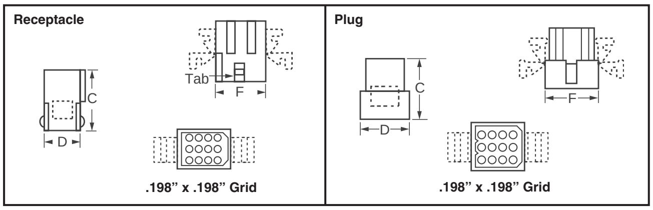

Grid Patterns
(Contacts sold separately)

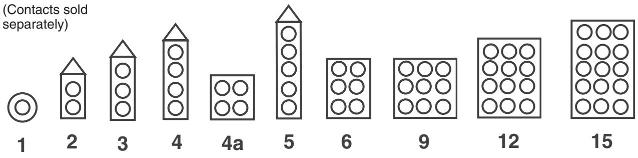

Grid Space	Grid No.	Type	Maximum Amps	V.	Dimensions (Inch) A	B	C	D	F	Digi-Key Part No.	Pricing 1	10	100	Molex Part No.
Connector Housings — with Detent Only, Free Hanging														
.198”	1	Plug	12	5000	—	—	2.250	.437	—	WM1301-ND	.46	4.10	27.32	03-09-2014
		Recept.	12	5000	—	—	1.859	.312	—	WM1300-ND	.47	4.11	27.43	03-09-1014
	1	Plug	12	250	—	—	1.000	.358	—	WM1303-ND	.25	2.22	14.81	03-09-2011
		Recept.	12	250	—	—	1.000	.234	—	WM1302-ND	.25	2.22	14.81	03-09-1011
	3	Plug	12	250	.933	.375	.970	.340	.770	WM1325-ND	.47	4.16	27.75	03-09-2032
		Recept.	12	250	.840	.312	1.015	.236	.670	WM1332-ND	.49	4.35	29.02	03-09-1032
	4	Plug	12	250	1.131	.375	1.000	.338	.971	WM1326-ND	.52	4.60	30.69	03-09-2042
		Recept.	12	250	1.038	.312	1.000	.236	.868	WM1333-ND	.53	4.66	31.09	03-09-1042
	4a	Plug	12	250	.555	.695	1.024	.538	.538	WM1327-ND	.77	6.77	45.16	03-09-2049
		Recept.	12	250	.500	.600	1.000	.434	.434	WM1334-ND	.74	6.55	43.65	03-09-1049
	5Δ	Plug	12	250	—	—	.969	.350	1.170	WM1315-ND	.83	7.37	49.11	03-09-2057
		Recept.	12	250	—	—	1.000	.240	1.070	WM1314-ND	.80	7.08	47.17	03-09-1057
	6	Plug	9	250	.750	.695	1.000	.733	.536	WM1328-ND	.69	6.11	40.76	03-09-2062
		Recept.	9	250	.718	.600	1.015	.632	.434	WM1335-ND	.69	6.11	40.76	03-09-1064
	9◊	Plug	9	250	.937	.660	.970	.730	.770	WM1329-ND	.82	7.24	48.28	03-09-2092
		Recept.	9	250	.828	.725	1.015	.625	.666	WM1336-ND	.88	7.75	51.65	03-09-1094
	12	Plug	7.5	250	1.155	.760	1.000	.737	.770	WM1330-ND	.97	8.57	57.11	03-09-2121
		Recept.	7.5	250	1.050	.655	1.015	.633	.871	WM1337-ND	.91	8.00	53.32	03-09-1126
.248”	2	Plug	12	250	.800	.375	1.000	.352	.639	WM1324-ND	.37	3.24	21.60	03-09-2022
		Recept.	12	250	.725	.312	1.030	.250	.536	WM1331-ND	.39	3.48	23.19	03-09-1022
Connector Housings — with Positive Lock, Free Hanging														
.198”	4§	Plug	9	600	—	—	1.031	.359	1.156	WM1405-ND	.76	6.73	44.89	03-09-2048
		Recept.	9	600	—	—	1.063	.265	1.032	WM1404-ND	.74	6.55	43.65	03-09-1047
.248”	2	Plug	12	600	—	—	1.031	.359	.656	WM1401-ND	.63	5.55	36.97	03-09-2028
		Recept.	12	600	—	—	1.063	.265	.531	WM1400-ND	.60	5.29	35.27	03-09-1028
Connector Housings — with Mounting Ears and Detent, Panel Mount														
.198”	3	Plug	12	250	.933	.375	.970	.340	.770	WM1307-ND	.54	4.73	31.54	03-09-2031
		Recept.	12	250	.840	.312	1.015	.236	.670	WM1338-ND	.51	4.54	30.26	03-09-1081
	4	Plug	12	250	1.131	.375	.969	.338	.971	WM1309-ND	.55	4.85	32.36	03-09-2041
		Recept.	12	250	1.038	.312	1.000	.236	.868	WM1308-ND	.53	4.66	31.09	03-09-1041
	4a	Plug	12	250	.555	.695	.969	.538	.538	WM1311-ND	.76	6.73	44.89	03-09-2040
		Recept.	12	250	.500	.600	1.000	.434	.434	WM1310-ND	.74	6.55	43.65	03-09-1040
	6	Plug	9	250	.750	.695	.969	.733	.536	WM1317-ND	.72	6.36	42.43	03-09-2061
		Recept.	9	250	.718	.600	1.015	.632	.434	WM1316-ND	.72	6.36	42.43	03-09-1061
	9◊	Plug	9	250	.937	.660	.970	.730	.770	WM1319-ND	.84	7.43	49.53	03-09-2091
		Recept.	9	250	.828	.725	1.015	.625	.666	WM1318-ND	.84	7.43	49.53	03-09-1091
	12	Plug	7.5	250	1.155	.760	.969	.737	.975	WM1321-ND	.89	7.87	52.47	03-09-2122
		Recept.	7.5	250	1.050	.665	1.015	.633	.871	WM1320-ND	.91	8.00	53.32	03-09-1125
	15	Recept.	7.5	250	1.240	.655	1.015	.632	1.066	WM1322-ND	1.21	10.69	71.29	03-09-1154
.248”	2§	Plug	12	250	.800	.375	.968	.352	.639	WM1305-ND	.41	3.66	24.38	03-09-2021
		Recept.	12	250	.725	.312	1.000	.250	.536	WM1304-ND	.39	3.48	23.19	03-09-1027
.250”	3	Plug	11	600	1.022	.365	1.100	.350	.862	WM1501-ND	.83	7.37	49.11	19-09-2031
	4	Recept.	9	600	1.168	.311	1.140	.250	.760	WM1502-ND	.88	7.80	51.97	19-09-1043
	6	Plug	9	600	1.048	.658	1.100	.640	.886	WM1505-ND	.95	8.42	56.15	19-09-2061
		Recept.	9	600	.946	.608	1.140	.540	.790	WM1504-ND	.95	8.42	56.15	19-09-1061
.250”	9	Recept.	8	600	.948	.850	1.140	.790	.790	WM1506-ND	1.27	11.24	74.94	19-09-1091
	12	Plug	6	600	1.300	.910	1.100	.890	1.140	WM1509-ND	1.35	11.94	79.61	19-09-2122
	15	Plug	6	600	1.552	.910	1.100	.890	1.388	WM1511-ND	2.43	21.46	143.07	19-09-2153
		Recept.	6	600	1.422	.850	1.140	.790	1.282	WM1510-ND	2.43	21.40	142.65	19-09-1151
Housing Positive Lock Panel Mount														
.264”	1	Plug	12	600	.485	.343	.320	.320	.320	WM1601-ND	.42	3.73	24.86	19-09-2018
		Recept.	12	600	—	—	—	.300	.400	WM1600-ND•	.42	3.73	24.86	19-09-1019
	2	Plug	12	600	.800	.365	.635	.320	.580	WM1603-ND	.61	5.41	36.09	19-09-2028
		Recept.	12	600	—	—	—	.300	.560	WM1602-ND•	.61	5.41	36.09	19-09-1029
	3	Plug	11	600	1.022	.365	.862	.320	.848	WM1605-ND	.58	5.11	34.05	19-09-2038
		Recept.	11	600	—	—	—	.300	.830	WM1604-ND•	.60	5.29	35.27	19-09-1039
	4	Plug	9	600	1.270	.365	1.109	.321	1.110	WM1607-ND	.69	6.11	40.73	19-09-2048
		Recept.	9	600	—	—	—	.300	1.090	WM1606-ND•	.70	6.18	41.18	19-09-1049
	6	Plug	9	600	1.048	.658	.888	.604	.850	WM1609-ND	.77	6.84	45.58	19-09-2068
		Recept.	9	600	—	—	—	.560	.830	WM1608-ND•	.75	6.65	44.36	19-09-1069
	9	Plug	8	600	1.048	.909	.883	.868	.850	WM1611-ND	.86	7.62	50.78	19-09-2098
		Recept.	8	600	—	—	—	.560	.830	WM1610-ND•	.87	7.66	51.04	19-09-1099
	12	Plug	7	600	1.100	.910	1.140	.668	1.112	WM1613-ND	1.15	10.12	67.47	19-09-2128
		Recept.	7	600	—	—	—	.830	.900	WM1612-ND•	.97	8.55	57.03	19-09-1129
	15	Plug	6	600	1.552	.910	1.392	.868	1.380	WM1615-ND	1.36	11.99	79.95	19-09-2158
		Recept.	6	600	—	—	—	.868	1.380	WM1614-ND•	1.35	11.91	79.40	19-09-1159
Shrouded Male Pin Header														
.198”	3	Header	5	250	.770	.330	—	—	—	WM1625-ND	2.31	20.40	135.97	10-18-1032
	4	Header	5	250	.970	.330	—	—	—	WM1626-ND	2.64	23.25	155.03	10-18-1041
	6	Header	5	250	.740	.540	—	—	—	WM1627-ND	2.79	24.66	164.41	10-18-1061
	9	Header	5	250	.770	.730	—	—	—	WM1628-ND	3.59	31.68	211.21	10-18-1090
	12	Header	5	250	.980	.740	—	—	—	WM1629-ND	5.24	46.20	307.98	10-18-1120

§ Center spacing .248” (6.30mm) will accommodate: 14, 16 -and 18 AWG with 1/32” (.79mm) insulation – 16-18 AWG (double crimp), each with 1/32” (.79mm) insulation WM1400-WM1405 housing have positive locking rather than detent lock.

Δ Has positive lock rather than detent lock.

◊ Mounting ears are molded flush with back edge of wire end, not centered on side.

- **These Receptacles do not have mounting ears**

.093” Terminals

Features: Use with .093" housing **Temperature Range:** 40°C ~ 105°C; .010" stock 70/30 brass **High Voltage Test:** Withstands 1500 volts RMS for 60 seconds minimum applied between adjacent terminals **Current Rating:** Amperage rating up to 12 amps on some sizes **Storage Temperature Range:** -40°C ~ 125°C **Plating:** 200-300μ Inch Hot-Tin Dip tin plating

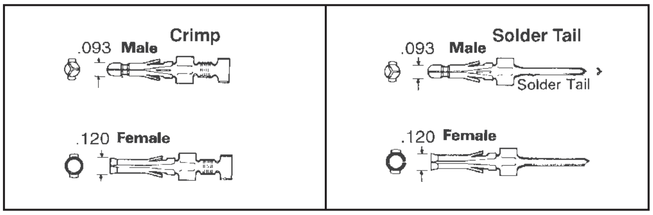

Description	Wire Size	Insulation Dia. (Inch)	Digi-Key Part No.	Pricing 10	100	500	Molex Part No.
Male, Crimp Type	14-20	.065/.160	WM1100-ND	.87	6.93	28.89	02-09-2103
			WM1100CT-ND†	—	6.93	28.89	02-09-2101
			WM1100TR-ND‡	231.00/7,000			02-09-2101
Female, Crimp Type	14-20	.065/.160	WM1101-ND	.85	6.84	28.49	02-09-1104
			WM1101CT-ND†	—	6.84	28.49	02-09-1102
			WM1101TR-ND‡	224.00/7,000			02-09-1102
Male, Crimp Type	18-22	.060/.120	WM1102-ND	.90	7.19	29.95	02-09-2118
Female, Crimp Type	18-22	.060/.120	WM1103-ND	.85	6.84	28.49	02-09-1119
Male, Solder-Tail	—	—	WM1104-ND	1.98	15.84	65.99	02-09-2133
Female, Solder-Tail	—	—	WM1105-ND	1.98	15.87	66.11	02-09-1134
Male, Crimp Type	18-22	.060/.120	WM1106-ND*	10.37	82.94	345.56	02-09-6123
Female, Crimp Type	18-22	.060/.120	WM1107-ND*	10.37	82.94	345.56	02-09-5142
Male, Crimp Type	24-30	.030/.060	WM1108-ND*	11.72	93.75	390.61	02-09-6145
Female, Crimp Type	24-30	.030/.060	WM1109-ND*	11.72	93.75	390.61	02-09-5147
Male, Solder-Tail	—	—	WM1110-ND*	14.45	115.56	481.50	02-09-6132
Female, Solder-Tail	—	—	WM1111-ND*	15.47	123.80	515.83	02-09-5132
Hand Tool (Waldom)	—	—	WM9903-ND	14.55/1			W-HT-1919
Hand Tool (Molex) (14-22 AWG)	—	—	WM17465-ND	243.27/1			63811-3200
Universal Crimp Tool (Molex)	—	—	WM9999-ND	50.75/1			63811-1000
Production Tool (24-30 AWG) (Molex)	—	—	WM9967-ND	214.65/1			63811-3400
Extraction Tool (Molex)	—	—	WM9930-ND	19.08/1			11-03-0006
Manual Wire Stripper (Molex)	—	—	WM9969-ND	95.16/1			63817-0000

* 15μ Select Gold Finish † CT = Cut Tape ‡ TR = Tape and Reel

Cable Connector Designer Kit

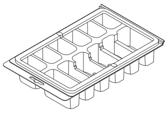

Covers from single to 15-circuit designs (250V and up to 12A/circuit). 90 complete connectors with .093" (2.36mm) diameter pin size. Crimping tool, pin terminal ejector and case included. ***RoHS Compliant***

WM9982-ND **$61.16**

molex Waldom ELECTRONICS

NEW! 0.80mm (.031”) Pitch HandyLink™ I/O Interconnect System

Dim. in mm

Fig. 1

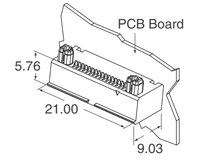

Fig. 2

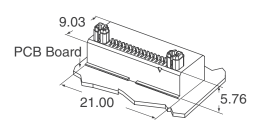

Fig. 3

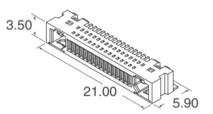

Fig. 4

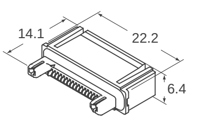

Fig. 5

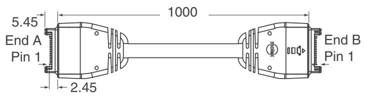

Fig. 6

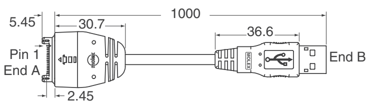

Molex’s 0.80mm (.031”) pitch HandyLink product family of connectors offers a perfect solution to any hand-held device design or application.

The HandyLink family includes a right-angle SMT receptacle, PCB plug and perpendicular and parallel mounted cradle connectors for docking applications.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	50	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Molex Part No.
1	Plug, 16 Pos., Rt Angle, SMT Cradle	WM17129CT-ND†	7.02	6.20	—	4.14	3.31	WM17129TR-ND	290	795.76	45560-0161
2	Plug, 16 Pos., Vertical, SMT Cradle	WM17128CT-ND†	7.02	6.20	—	4.14	3.31	WM17128TR-ND	290	795.76	45560-0160
3	Receptacle, 16 Pos., Rt Angle, SMT	WM17127CT-ND†	4.97	4.39	—	2.93	2.34	WM17127TR-ND	1000	1940.00	44828-1162
4	Plug, 16 Pos., Vert., PCB Termination	WM17126-ND	7.02	6.20	—	4.14	3.31	—	—	—	45593-1600
5	Cable Assembly, 16 Pos., Male - Male	WM17124-ND	29.53	23.63	19.69	—	15.75	—	—	—	36697-0001
6	Cable Assembly, HandyLink to USB	WM17125-ND	13.91	11.13	9.28	—	7.43	—	—	—	36697-0021

† Cut Tape Pricing

HRS HIROSE ELECTRIC CO.,LTD.

Miniature IO and Power Connectors

Dim. in mm

Fig. 1

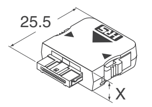

Fig. 2

Fig. 3

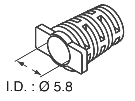

Fig. 4

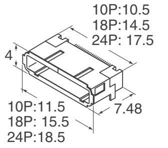

Fig. 5

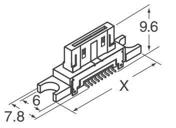

Fig. 6

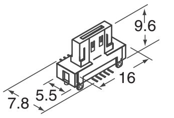

ST Series

Applications: • Hand-held terminals • PDA equipment • Notebook computers • Mobile communications equipment • Office automation equipment • Measuring instruments

Specifications: • Rated voltage: 100VAC • Rated current: 0.5A • Operating Temperature: -30°C ~ 80°C • Insulation resistance 100MΩ @ 250VDC • Contact resistance: 60mΩ maximum

Materials: • Insulator: Glass reinforced thermoplastic, black color, UL94V-0 • Contacts: Copper alloy, selective gold plating • Shell: Stainless steel, solder plated

Fig.	Description	Dim. X (mm)	Digi-Key Part No.	Price Each 1	10	25	50	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Hirose Part No.
1	Plug, 10 Pos. Solder	7	H1959-ND	3.22	2.68	—	2.23	1.98	—	—	—	ST40-10S-CV
	Plug, 18 Pos. Solder, Shielded	7	H1951-ND	4.21	3.48	—	2.90	2.61	—	—	—	ST40X-18S-CV
	Plug, 24 Pos. Solder, Shielded	7	H1950-ND	4.70	3.89	—	3.24	2.92	—	—	—	ST40X-24S-CV
	Plug, 24 Pos. Solder, Shielded*	9	H10354-ND◊ ***NEW!***	6.18	5.12	—	4.26	3.84	—	—	—	ST40X-24S-CV1(80)
2	Cable Clamp for 5.8mm Cables	—	H1952-ND	.65	.46	—	.36	.31	—	—	—	ST40X-CM(5.8)
	Cable Clamp for 4.0mm Cables	—	H10355-ND◊ ***NEW!***	.15	.12	—	.10	.09	—	—	—	ST40X-CM(4.0)
3	Cable Bushing 5.8mm	—	H1953-ND	.84	.69	—	.55	.50	—	—	—	ST40X-BS(5.8)
4	Receptacle, 10 Pos., Rt. Angle, SMD	—	H1958CT-ND†	1.76	—	1.36	—	1.09	H1958TR-ND	1,500	722.00/M	ST60-10P
	Receptacle, 18 Pos., Rt. Angle, SMD	—	H1955CT-ND†	2.22	—	1.71	—	1.37	H1955TR-ND	1,500	910.00/M	ST60-18P
	Receptacle, 24 Pos., Rt. Angle, SMD	—	H1954CT-ND†	2.18	—	1.68	—	1.35	H1954TR-ND	1,500	892.00/M	ST60-24P
5	Plug, 18 Pos., Vertical, Cradle, SMD	27.6	H1956CT-ND†	4.84	—	3.76	—	3.01	H1956TR-ND	400	968.80	ST80X-18S
	Plug, 24 Pos., Vertical, Cradle, SMD	29.9	H10356CT-ND†◊ ***NEW!***	4.84	—	3.76	—	3.01	H10356TR-ND◊ ***NEW!***	400	968.80	ST80X-24S(50)
6	Plug, 10 Pos., Vertical, Cradle, SMD	—	H1957CT-ND†	3.22	—	2.50	—	2.00	H1957TR-ND	400	644.00	ST80X-10S

† Cut Tape Pricing ◊ ***RoHS Compliant*** * For Larger Diameter Cables

3200 Series SMT

Applications: • Portable personal computers • Electronic notebooks • Various OA equipment • Portable mobile communication equipment

Specifications: • Rated Current: 500mA • Rated Voltage: AC125V • Insulation Voltage: 250MΩ or more at DC100V • Withstanding Voltage: At AC300V rms for 1 minute **Materials:** ***Receptacle:*** • Insulation: Synthetic resin, Black • Contacts: Copper alloy, Selective gold-plated • Shell: Stainless steel, Solder-plated ***Plug:*** • Insulation: Synthetic resin, Black • Contacts: Copper alloy, Selective gold-plated • Shell: Copper alloy, Solder-plated • Cover: Synthetic resin, Black

Fig. 1 — Receptacle

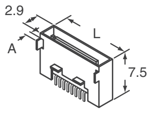

Fig. 2 — Plug

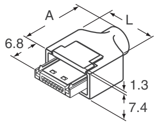

Fig.	No. of Contacts	Dimensions (mm) A	Dimensions (mm) L	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	0.5	12.6	H10011-ND	2.99	2.48	2.06	3260-8S1
	8	1.0	12.6	H10012-ND	2.99	2.48	2.06	3260-8S2
	8	1.5	12.6	H10013-ND	2.99	2.48	2.06	3260-8S3
	10	0.5	14.2	H10007-ND	3.28	2.72	2.26	3260-10S1
	10	1.0	14.2	H10008-ND	3.28	2.72	2.26	3260-10S2
	10	1.5	14.2	H10009-ND	3.28	2.72	2.26	3260-10S3
	12	1.5	14.2	H10010-ND	2.60	2.16	1.80	3260B-12S3(01)
2	8	18	15.1	H10006-ND	4.64	3.84	3.20	3240-8P-C
	10	21	16.7	H10004-ND	5.10	4.23	3.52	3240-10P-C
	12	21	16.7	H10005-ND	5.28	4.37	3.64	3240-12P-TO-C

(Continued)

3500 Series SMT

Fig. 1 — Forward Receptacle

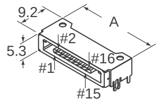

Fig. 2 — Reverse Receptacle

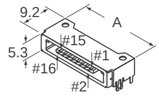

Fig. 3 — SMT Plug

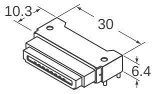

Fig. 4 — Plug

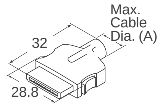

Applications:
Hand-held terminals, PDA equipment, notebook computers, mobile communications equipment, office automation equipment, measuring instruments.

Specifications:
Rated Voltage: 125VAC. Rated Current: 1A. Operating Temperature: -40°C ~ 85°C. Insulation Resistance: 1,000MΩ or greater/ 250VDC. Withstand Voltage: 350VAC for 1 minute. Contact Resistance: 40mΩ or less. Insertion/Removal Life: 20,000 times.

Materials:
Receptacles: Insulation: Synthetic resin, Black UL94V-0. Contacts: Copper alloy, Selective gold plating 0.2µm over palladium plating. Shell: Stainless steel, Solder plating. ***Plug:*** Insulation: Synthetic resin, Black color UL94V-0. Contacts: Copper alloy, Selective gold plating 0.2µm over palladium plating. Shell: Stainless steel. Lock Spring: Stainless steel. Cover: Synthetic resin, Black.

Fig.	No. of Contacts	Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	10	20.8	H10015-ND	6.00	4.97	4.14	3560-10S
	16	25.6	H10018-ND	6.60	5.59	4.70	3560-16S
2	10	20.8	H10016-ND	6.00	4.97	4.14	3560-10SR
	16	25.6	H10019-ND	6.64	5.50	4.58	3560-16SR
	16	25.6	H10020-ND	6.60	5.59	4.70	3560-16SR1
3	16	—	H10017-ND	7.23	6.12	5.15	3560-16P-PG
4	10	ø5.3	H10014-ND	8.42	7.32	6.59	3540-10P-CV
	16	ø6.2	H10000-ND	9.96	8.66	7.80	3540-16P-CV

MQ172 Series SMT Micro-Miniature Interface Connectors for Power Supply/Signaling

Fig. 1

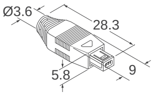

Fig. 2

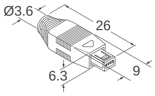

Fig. 3

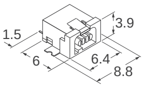

Fig. 4

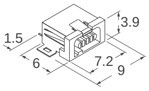

Features: Ultra Miniature/Low Profile SMT Design. Dimensions: 3.9mm (H) x 6.4mm (W) x 6mm (D) for the 3 contact type, this series is ideal for today's miniature, lightweight electronic products.

Applications: Portable remote terminals, portable telephones, PHS (personal handy phone system), Notebook PCs, Electronic measuring instruments.

Ratings: Rated Current: 3A (4-contact type, rated current is 2A, or 3A for optional 2 terminals and 0.5A for other 2 terminals.) Temperature Range: -30°C ~ 75°C. Rated Volt: DC 30V or less AC 40V or less.

Fig.	No. of Contacts	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
1	3	Plug, Unshielded	H2790-ND	3.06	2.54	2.12	1.88	MQ172-3SA-CV
2	4	Plug, Shielded	H2791-ND	2.96	2.45	2.04	1.84	MQ172X-4SA-CV
3	3	Receptacle, Unshielded, Loose	H2792-ND	2.05	1.71	1.42	1.26	MQ172-3PA

Fig.	No. of Contacts	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
Shielded — Receptacle							
4	4	H2794-ND	2.57	2.14	1.78	1.58	MQ172X-4PA

RP34 Series Compact Plastic Connector for AC Adapter

A compact, lightweight, 3-pole plastic connector specially designed for the AC adapter interface for notebook type personal computers. Plug is available in either straight type or right-angle type. Receptacle is very compact with a 10mm sq. mating surface and 11.3mm depth.

• Snap-lock locking and D-shaped mating section for easy insertion and disconnection • One of the three poles is designed for grounding terminal • Snap-fit assembling method for plug eliminates use of screws • External appearance is simplified cubical shape and fits well to any equipment.

Materials: • Main Frame and Insulator: Polycarbonate resin containing glass, and PBT resin UL94V-0, black • Male Terminal: Brass with silver plating • Female Terminal: Phosphor bronze with silver plating

Straight Plug

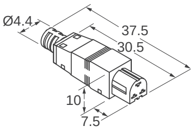

Right Angle Plug

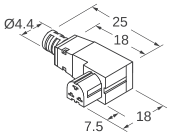

Receptacle

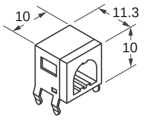

Con-tacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
3	Plug with Socket, Straight	HR170-ND†	4.18	3.46	2.60	RP34-8SP-3SC
4	Plug with Socket, Straight	HR171-ND†	2.73	2.27	1.68	RP34-8SP-4SC
3	Plug with Socket, Right Angle	HR172-ND†	4.18	3.46	2.60	RP34-8P-3SC
3	Receptacle with Pin, PC Mount	HR173-ND	1.98	1.65	1.22	RP34-8R-3PDL
4	Receptacle with Pin, PC Mount	HR174-ND	2.21	1.84	1.36	RP34-8R-4PDL
—	Conn. Term Female, 18-22AWG, Tin	HR175-ND	.65	.54	.39	RP34-SC-112
	Hand Crimp Tool for RP34 Contact	H9956-ND	1118.00	—	—	RP34-1/CR-HT
	Hand Crimp Tool for RP34 Ferrule	H9945-ND	332.50	—	—	RP34-TC-01

† Contact not included and must be ordered separately (Digi-Key Part No. HR175-ND).

RP34L Series Connectors for Low Profile Power Supply

Features: Low profile: These receptacles are designed with their installation heights to be shorter than those of conventional RP34 series, such as 6.1mm (for 2-core type) and 5mm (for 3-core type).

Applications: Notebook PCs, portable remote terminals, AV equipment.

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	2	Receptacle, Dip-Solder Male Terminal	H2348-ND	2.90	2.25	1.80	RP34L-5R-2PD
2	3	Receptacle, Dip-Solder Male Terminal	H2349-ND	2.96	2.30	1.84	RP34L-5R-3PD
3	2	Cable-Integrated Forming Str Plug to pig-tail	H2350-ND	15.54	14.22	12.80	RP34L-5PA-2SC(1857)
4	3	Straight Plug	H2810-ND †	3.51	2.73	2.18	RP34L-5PA-3SC
5	3	Right Angle Plug	H2352-ND †	3.51	2.73	2.18	RP34L-5LP-3SC
—	—	Crimp Terminal - AWG 18-22	H2353CT-ND	19.25/100	69.30/500		RP34L-SC1-212(01)
—	—	Crimp Terminal - AWG 18-22	H2353TR-ND		784.00/8,000		RP34L-SC1-212(01)
—	—	Hand Crimp Tool	H9946-ND	1222.00	—	—	HT-102/RP34L-SC1-212

† Order Crimp terminals separately.

Fig. 1

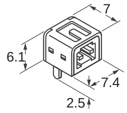

Fig. 2

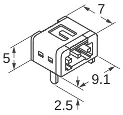

Fig. 3

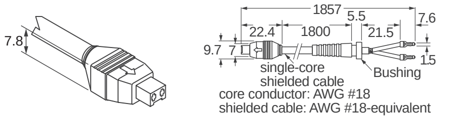

Fig. 4

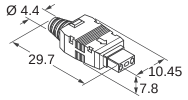

Fig. 5

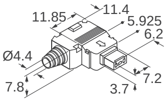

HIROSE ELECTRIC CO.,LTD.

Connectors – QR/P Series

Features: • The selective plating sexless contact is used for both plug and receptacle housings. • Two pairs of contacts at both ends are sequenced for power circuits. They are longer than the others. The molding material is UL94V-0 glass-reinforced polyester. • The guide pin is made of steel nickel plated to be strong enough against accidental coupling shock. • The connectors have passed UL, CSA and TUV standards.
Applications: • PPC, Data Communications, Vending machines, Instrument, Automatic equipment, etc. **Specifications:** • **Operating Temperature Range:** -10°C ~ 60°C • **Contact Resistance:** 10mΩ or less at DC1A • **Insulation Resistance:** 5000mΩ or less at DC 500V • **Withstand Voltage** (1 minute): *Power:* AC 3000V; *Signal*: AC 1000V • **Current Rating:** *Power*: 13A maximum (AWG #14 use) *Signal*: 7A maximum (AWG #14 use) • **Voltage Rating:** *Power*: AC600V *Signal*: AC250V **Material:** • Insulator: PBT (UL94V-0), blue • Contact: Phosphor bronze, selective gold over nickel plating

Fig. 1 — Plug Housing

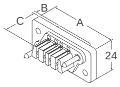

Fig. 2 — Receptacle Housing

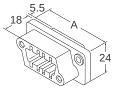

Fig.	No. of Circuits	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	4	41	5	18.5	H3246-ND	5.51	4.56	3.80	QR/P-4P-C(01)
	8	52	5	18.5	H3248-ND	5.71	4.73	3.94	QR/P-8P-C(01)
	12	61	5	18.5	H3240-ND	6.18	5.12	4.26	QR/P-12P-C(01)
	16	70	5	18.5	H3242-ND	7.05	5.84	4.86	QR/P-16P-C(01)
	24	86.5	5.5	18	H3244-ND	7.49	6.34	5.33	QR/P-24P-C(01)
2	4	41	—	—	H3247-ND	5.19	4.30	3.58	QR/P-4S-C(01)
	8	52	—	—	H3249-ND	5.37	4.44	3.70	QR/P-8S-C(01)
	16	70	—	—	H3243-ND	6.41	5.31	4.42	QR/P-16S-C(01)
	24	86.5	—	—	H3245-ND	6.68	5.66	4.76	QR/P-24S-C(01)
NEW! RoHS Compliant NEW!									
2	4	41	—	—	H10144-ND	5.95	4.92	4.10	QR/P-4S-C(51)
	8	52	—	—	H10140-ND	6.18	5.12	4.26	QR/P-8S-C(51)
	12	61	—	—	H10141-ND	6.61	5.48	4.56	QR/P-12S-C(51)
	16	70	—	—	H10142-ND	6.71	5.68	4.78	QR/P-16S-C(51)
	24	86.5	—	—	H10143-ND	7.70	6.52	5.48	QR/P-24S-C(51)

AWG	Digi-Key Part No.	*Loose Piece* Pricing 1	10	Hirose Part No.	*Cut Tape** Pricing 10	50	*Tape & Reel †* Size	Pricing	Hirose Part No.
Sexless Crimp Contacts									
14-16	H3250-ND	1.28	10.45	QR/P-XC-111(12)	7.60	30.63	3,500	319.00/M	QR/P-XC-211(12)
18-24	H3251-ND	1.28	10.45	QR/P-XC-121(12)	7.60	30.63	5,000	312.00/M	QR/P-XC-221(12)

* For Cut Tape, add CT to the Digi-Key Part No. (H3250CT-ND)
† For Tape and Reel, add TR to the Digi-Key Part No. (H3250TR-ND)

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Tools			
Hand Crimp Tool, 14-16AWG	H9913-ND	715.00	TC-2100-111
Hand Crimp Tool, 18-24AWG	H9914-ND	715.00	TC-2100-121
Extraction Tool	H9915-ND	12.00	TC-2100-21

Connectors – QR/P1 Series

QR/P1 series connectors are small and compact high density versions of original OR/P series. Available in 8, 12, 16, 24 and 32 way. Crimps terminals assure positive and reliable termination with minimum labor.
Features: • The coupling mechanism assures stable and reliable contact pressure through point and blade contact, in addition to smooth coupling that is sufficiently capable of dealing with variations in the coupling length specific to the plug-in connection • One opposed pair (in 12 contacts), 2 pairs (in 8, 16, and 24 contacts), and 3 pairs (in 32 contacts) can be used as power supply contacts. They are spaced further apart than the others so as to have enough creeping distance to withstand a high voltage. Fire-retardant insulation materials (UL94-0) are used. • The Guide Pin is made of steel nickel plated to be strong enough against accidental coupling shock. • The mount of a receptacle housing is done through floating bushes. Thus, they may help to give more smooth coupling of connectors by self-adjusting function. **Specifications:** • **Operating Temperature Range:** -10°C ~ 60°C • **Voltage:** *Power Terminal*: AC 250V; *Signal Terminal:* AC 125V • **Current:** *Power Unit*: 13A maximum (AWG 14 use); *Signal Unit*: 3A • **Withstand Voltage:** *Power Terminal*: AC 1000V; *Signal Terminal*: AC 500V • **Insulation Resistance:** 5000MΩ higher at DC 500V • **Contact Resistance:** *Power Unit*: 10mΩ or less at DC1A; *Signal Unit*: 15mΩ or less at DC1A • **Material:** *Insulator*: Polyethylene terephthalate, black; *Terminal*: Phosphor bronze, selective gold plating with nickel under plating

Fig. 1 — Plug Housing

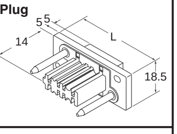

Fig. 2 — Socket Housing

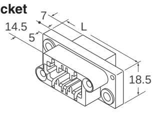

Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	16	57.6	H10077-ND	5.34	4.42	3.68	QR/P1-16P-C(01)
	24	68.8	H10079-ND	6.53	5.40	4.50	QR/P1-24P-C(01)
	32	85.5	H10081-ND	6.81	5.77	4.85	QR/P1-32P-C(01)
2	8	46.4	H10084-ND	5.25	4.35	3.62	QR/P1-8S-C(01)
	24	68.8	H10080-ND	6.87	5.69	4.74	QR/P1-24S-C(01)
	32	85.5	H10082-ND	7.62	6.45	5.43	QR/P1-32S-C(01)
NEW! RoHS Compliant NEW!							
1	8	46.4	H10151-ND	5.08	4.20	3.50	QR/P1-8P-C(51)
	12	51	H10145-ND	5.51	4.56	3.80	QR/P1-12P-C(51)
	16	57.6	H10147-ND	5.95	4.92	4.10	QR/P1-16P-C(51)
	24	68.8	H10149-ND	6.38	5.28	4.40	QR/P1-24P-C(51)
	32	85.5	H10153-ND	8.48	7.18	6.04	QR/P1-32P-C(51)
2	8	46.4	H10152-ND	5.51	4.56	3.80	QR/P1-8S-C(51)
	12	51	H10146-ND	6.18	5.12	4.26	QR/P1-12S-C(51)
	16	57.6	H10148-ND	6.61	5.48	4.56	QR/P1-16S-C(51)
	24	68.8	H10150-ND	7.05	5.84	4.86	QR/P1-24S-C(51)
	32	85.5	H10154-ND	8.21	7.14	6.43	QR/P1-32S-C(51)

Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
Contacts					
14-16AWG, Male	H10086-ND	—	1.01	.82	QR/P1-PC1B-121(12)
14-16AWG, Female	H10090-ND	—	.98	.79	QR/P1-SC1B-121(12)
18-24AWG, Male	H10085-ND	—	.72	.58	QR/P1-PC1A-111(12)
18-24AWG, Female	H10089-ND	—	.68	.55	QR/P1-SC1A-111(12)
20-24AWG, Male	H10088-ND	—	.72	.58	QR/P1-PC2B-121(12)
20-24AWG, Female	H10092-ND	—	.71	.57	QR/P1-SC2B-121(12)
24-28AWG, Male	H10087-ND	—	.51	.41	QR/P1-PC2A-111(12)
24-28AWG, Female	H10091-ND	—	.50	.41	QR/P1-SC2A-111(12)
Tools					
Hand Crimp Tool for H10086-ND	H10123-ND	715.00	—	—	TC-QR/P1-PC1B
Hand Crimp Tool for H10085-ND	H10122-ND	689.00	—	—	TC-QR/P1-PC1A
Hand Crimp Tool for H10090-ND	H10127-ND	715.00	—	—	TC-QR/P1-SC1B
Hand Crimp Tool for H10089-ND	H10126-ND	689.00	—	—	TC-QR/P1-SC1A
Hand Crimp Tool for H10088-ND	H10125-ND	715.00	—	—	TC-QR/P1-PC2B
Hand Crimp Tool for H10087-ND	H10124-ND	545.30	—	—	TC-QR/P1-PC2A
Hand Crimp Tool for H10092-ND	H10129-ND	715.00	—	—	TC-QR/P1-SC2B
Hand Crimp Tool for H10091-ND	H10128-ND	545.30	—	—	TC-QR/P1-SC2A
Extraction Tool	H10121-ND	9.89	—	—	TC-QR/P1-21

Connectors – QR/P4 and P6 Series

QR/P4 series is a series of small connectors for rack and panel application. This is a smaller rectangular size version of the QR/P and QR/P1 series. Available in 8, 12, 16, 24, 32 and 40 contacts. Wires are connected to the connectors without solder for easier connection and higher reliability.
QR/P6 series are miniaturized versions of the QR/P and QR/P1 series. Rectangular multi-contact rack and panel connectors for plug-in connection. Available in 6, 12, 16, and 24 contacts for highly efficient and reliable crimp termination. **Features:** • Offers smooth insertion/extraction and stable contact pressure through point-blade contact, and allows for the deviations in contact length specific to plug-in connection • Miniaturized by separating power contacts from signal contacts • Miniaturized using guide pins integral with the insulator • The connectors of the series have passed UL, CSA and TUV standards **Applications:** • PPC • Transmission, automation, reception and data communication equipment • Vending machines • Measuring instruments • Switch boards **QR/P4 Specifications:** • **Operating Temperature:** -10°C ~ 60°C • **Rated Voltage:** *Power:* AC 300V; *Signal:* AC 250V • **Rated Current:** *Power:* 3A; *Signal:* 1A • **Withstand Voltage:** *Power:* AC 2000V; *Signal:* AC 500V • **Insulation Resistance**: Minimum 5000MΩ at DC 500V • **Contact Resistance**: *Power*: Maximum 15mΩ at DC1A; *Signal:* maximum 15mΩ at DC1A • **Material:** *Insulator:* PBT resin (UL94V-0), Black; *Contact:* Phosphor bronze, Selective gold plated over nickel **QR/P6 Specifications:** • **Operating Temperature:** -10°C ~ 60°C • **Rated Voltage:** AC 120V • **Rated Current:** *Power Terminal:* 10A; *Signal Terminal:* 1A • **Withstand Voltage** (for 1 minute): *Power Unit:* AC 1000V; *Signal Unit:* AC 500V • **Insulation Resistance:** 5000MΩ or less at DC 500V • **Contact Resistance:** *Power Terminal:* 10mΩ or less at DC1A: *Signal Terminal:* 15mΩ or less at DC1A • **Materials:** *Insulator:* PBT resin (UL94V-0), Black; *Terminal:* Phosphor bronze, selective gold plating with nickel under plating

Fig. 1 - QR/P4 Male Housing use with QR/P1 Male Contacts

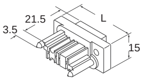

Fig. 2 - QR/P4 Female Housing use with QR/P1 Female Contacts

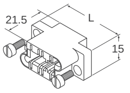

Fig. 3 - QR/P6 Male Housing use with QR/P1 Male Contacts

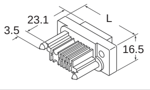

Fig. 4 - QR/P6 Female Housing use with QR/P1 Female Contacts

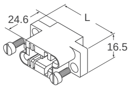

Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
QR/P4 Series							
1	8	34.68	H10103-ND	3.51	2.91	2.42	QR/P4-8P-C(01)
	12	39.8	H10093-ND	4.41	3.65	3.04	QR/P4-12P-C(01)
	16	44.84	H10095-ND	5.28	4.37	3.64	QR/P4-16P-C(01)
	24	55	H10097-ND	5.71	4.73	3.94	QR/P4-24P-C(01)
	32	67.7	H10099-ND	6.18	5.12	4.26	QR/P4-32P-C(01)
	40	77.86	H10101-ND	6.76	5.72	4.81	QR/P4-40P-C(01)
2	8	34.68	H10104-ND	3.97	3.29	2.74	QR/P4-8S-C(01)
	12	39.8	H10094-ND	4.61	3.82	3.18	QR/P4-12S-C(01)
	16	44.84	H10096-ND	6.18	5.12	4.26	QR/P4-16S-C(01)
	24	55	H10098-ND	6.61	5.48	4.56	QR/P4-24S-C(01)
	32	67.7	H10100-ND	7.05	5.84	4.86	QR/P4-32S-C(01)
	40	77.86	H10102-ND	7.67	6.49	5.46	QR/P4-40S-C(01)
QR/P6 Series							
3	6	32.67	H10111-ND	3.22	2.68	2.23	QR/P6-6P-C(01)
	12	41.47	H10105-ND	3.16	2.62	2.18	QR/P6-12P-C(01)
	16	46.55	H10107-ND	3.22	2.68	2.23	QR/P6-16P-C(01)
	24	56.71	H10109-ND	3.51	2.91	2.42	QR/P6-24P-C(01)
4	6	32.67	H10112-ND	3.51	2.91	2.42	QR/P6-6S-C(01)
	12	41.47	H10106-ND	3.74	3.10	2.58	QR/P6-12S-C(01)
	16	46.55	H10108-ND	4.84	4.01	3.34	QR/P6-16S-C(01)
	24	56.71	H10110-ND	4.41	3.65	3.04	QR/P6-24S-C(01)
Tools							
Extraction Tool for QR/P4 Series			H10130-ND	9.89	—	—	TC-QR/P4-21
Extraction Tool for QR/P6 Series			H10299-ND ***NEW!***	37.80	—	—	TC-QR/P6-21

Connectors – QR/P8 Series

QR/P8 series is a series of small connectors for rack and panel application. This is a smaller rectangular size version of the QR/P and QR/P1 series. Electrodes available are 8, 12 and 20. Wires are connected to the connectors without solder for easier connection and higher reliability.
Features: • The connector of this series is about 20% smaller in length than that of the QR/P4 series with the same number of electrodes • Wires of AWG 20-28 can be connected with the two pairs of terminals on the two sides, while wires of AWG 24-28 can be connected with the terminals for signals • The pins give stable contact pressure because of their point contact with the receptacle blades, and have a larger allowance for the variation of connection length • The connectors have passed UL, CSA and TUV standards **Applications:** • PPC • Transmission, automation, reception and data communication equipment • Vending machines • Measuring instruments • Switchboards **Specifications:** • **Operating Temp.:** -10°C ~ 60°C • **Withstand Voltage** (for 1 minute): *Power Supply*: AC 2000V; *Signal Unit*: AC 500V • **Insulation Resistance:** 1000MΩ or less at DC 500V • **Contact Resistance:** 30mΩ or less at DC1A • **Material:** *Insulator:* Polycarbonate resin UL94V-0, Black; *Contact:* Phosphor bronze, selective gold plated over nickel

Fig. 1 - Male Housing

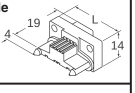

Fig. 2 - Female Housing

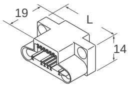

Fig.	No. of Circuits	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	8	27	H10116-ND	2.96	2.46	2.05	QR/P8-8P-C(01)
	12	31	H10002-ND	3.05	2.52	2.10	QR/P8-12P-C(01)
	20	39	H10114-ND	3.60	2.98	2.48	QR/P8-20P-C(01)
2	8	27	H10117-ND	3.07	2.55	2.12	QR/P8-8S-C(01)
	12	31	H10113-ND	3.48	2.88	2.40	QR/P8-12S-C(01)
	20	39	H10115-ND	4.06	3.36	2.80	QR/P8-20S-C(01)
Contacts							
20-24AWG, Male			H10118-ND	—	.33	.26	QR/P8-PC-111
20-24AWG, Female			H10119-ND	—	.33	.26	QR/P8-SC-111
24-28AWG, Male			H10003-ND	—	.33	.26	QR/P8-PC-121
24-28AWG, Female			H10120-ND	—	.33	.26	QR/P8-SC-121
Tools							
Hand Crimp Tool, 20-24AWG			HR1170-ND	715.00	—	—	TC-QR/P8-111
Hand Crimp Tool, 24-28AWG			HR1171-ND	715.00	—	—	TC-QR/P8-121
Extraction Tool			HR1172-ND	10.00	—	—	TC-QR/P8-21

tyco Electronics AMP

4.2 mm PE Series Connectors

Description: • Low cost, wire-to-wire and wire-to-board connectors with 4.2mm x 4.2mm centerline

Features: • Easy mate and unmate with positive latch design • UL 94V-2 • Products are lead free • Intermateable and interchangeable with Molex Mini-Fit, Jr. and intermateable AMP-DUAC connectors

Ratings: • **Voltage Rating:** 600VAC • **Current Rating:** 9 Amps Max. in 2-position applications • **Dielectric Withstanding Voltage:** 1500VAC minimum • Component recognized by UL and Certified by CSA • UL File No. E28476 and CSA File No. 208567

Fig. 1

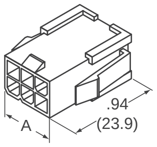

Fig. 2

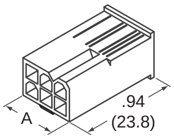

Fig. 3

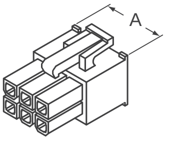

Fig. 4

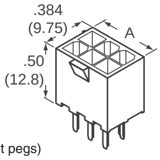

(shown without pegs)

Fig. 5

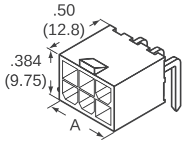

Fig. 6

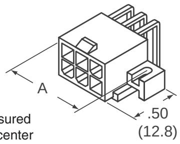

(Dim. A is measured from center to center of screw hole)

Fig.	No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 100	Pricing 500	Amp Part No.
Housing							
Plugs - Panel Mount							
1	2	.21 (5.4)	A30578-ND	.27	10.37	45.74	794953-2
	4	.38 (9.6)	A30579-ND	.29	11.40	50.30	794953-4
	6	.54 (13.8)	A30580-ND	.28	12.54	55.34	794953-6
	8	.71 (18.0)	A30581-ND	.28	13.80	60.87	794953-8
	10	.87 (22.2)	A30582-ND	.29	15.18	66.97	1-794953-0
	12	1.04 (26.4)	A30583-ND	.29	16.70	73.66	1-794953-2
	14	1.21 (30.6)	A30584-ND	.29	18.37	81.02	1-794953-4
	16	1.37 (34.8)	A30585-ND	.31	20.20	89.12	1-794953-6
	18	1.54 (39.0)	A30586-ND	.35	22.22	98.04	1-794953-8
	20	1.70 (43.2)	A30587-ND	.38	24.44	107.83	2-794953-0
	22	1.87 (47.4)	A30588-ND	.44	28.53	125.88	2-794953-2
	24	2.03 (51.6)	A30589-ND	.49	31.39	138.48	2-794953-4
Plugs - Free Hanging							
2	2	.21 (5.4)	A30654-ND	.27	10.37	45.74	1586000-2
	4	.38 (9.6)	A30655-ND	.29	11.40	50.30	1586000-4
	6	.54 (13.8)	A30656-ND	.28	12.54	55.34	1586000-6
	8	.71 (18.0)	A30657-ND	.28	13.80	60.87	1586000-8
	10	.87 (22.2)	A30658-ND	.29	15.18	66.97	1-1586000-0
	12	1.04 (26.4)	A30659-ND	.29	16.70	73.66	1-1586000-2
	14	1.21 (30.6)	A30660-ND	.29	18.37	81.02	1-1586000-4
	16	1.37 (34.8)	A30661-ND	.31	20.20	89.12	1-1586000-6
	18	1.54 (39.0)	A30662-ND	.35	22.22	98.04	1-1586000-8
	20	1.70 (43.2)	A30663-ND	.38	24.44	107.83	2-1586000-0
	22	1.87 (47.4)	A30664-ND	.44	28.53	125.88	2-1586000-2
	24	2.03 (51.6)	A30665-ND	.49	31.39	138.48	2-1586000-4
Receptacles - Free Hanging							
3	2	.23 (5.8)	A30590-ND	.27	10.37	45.74	794954-2
	4	.39 (10.0)	A30591-ND	.29	11.40	50.30	794954-4
	6	.56 (14.2)	A30592-ND	.28	12.54	55.34	794954-6
	8	.72 (18.4)	A30593-ND	.28	13.80	60.87	794954-8
	10	.89 (22.6)	A30594-ND	.29	15.18	66.97	1-794954-0
	12	1.06 (26.8)	A30595-ND	.29	16.70	73.66	1-794954-2
	14	1.22 (31.0)	A30596-ND	.29	18.37	81.02	1-794954-4
	16	1.39 (35.2)	A30597-ND	.31	20.20	89.12	1-794954-6
	18	1.55 (39.4)	A30598-ND	.35	22.22	98.04	1-794954-8
	20	1.72 (43.6)	A30599-ND	.38	24.44	107.83	2-794954-0
	22	1.88 (47.8)	A30600-ND	.42	26.89	118.62	2-794954-2
	24	2.05 (52.0)	A30601-ND	.46	29.57	130.48	2-794954-4

Fig.	No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	Pricing 100	Pricing 500	Amp Part No.
Pin Header							
Vertical With Pegs							
4	2	.21 (5.4)	A30668-ND	.55	45.84	183.37	1586039-2
	4	.38 (9.6)	A30669-ND	.59	48.76	195.03	1586039-4
	6	.54 (13.8)	A30670-ND	.61	50.57	202.29	1586039-6
	8	.71 (18.0)	A30671-ND	.81	67.09	268.37	1586039-8
	10	.87 (22.2)	A30672-ND	.89	74.41	297.63	1-1586039-0
	12	1.04 (26.4)	A30673-ND	1.17	97.59	390.34	1-1586039-2
	14	1.21 (30.6)	A30674-ND	1.26	104.90	419.60	1-1586039-4
	16	1.37 (34.8)	A30675-ND	1.35	112.22	448.88	1-1586039-6
	18	1.54 (39.0)	A30676-ND	1.42	118.33	473.30	1-1586039-8
	20	1.70 (43.2)	A30677-ND	1.58	131.74	526.95	2-1586039-0
	22	1.87 (47.4)	A30678-ND	1.67	139.06	556.22	2-1586039-2
	24	2.03 (51.6)	A30679-ND	1.77	147.59	590.37	2-1586039-4
Vertical Without Pegs							
4	2	.21 (5.4)	A30602-ND	.60	49.92	199.68	1586037-2
	4	.38 (9.6)	A30603-ND	.72	60.36	241.43	1586037-4
	6	.54 (13.8)	A30604-ND	.76	63.06	252.22	1586037-6
	8	.71 (18.0)	A30605-ND	.92	76.67	306.69	1586037-8
	10	.87 (22.2)	A30606-ND	1.02	85.04	340.14	1-1586037-0
	12	1.04 (26.4)	A30607-ND	1.34	111.53	446.10	1-1586037-2
	14	1.21 (30.6)	A30608-ND	1.44	119.89	479.55	1-1586037-4
	16	1.37 (34.8)	A30609-ND	1.54	128.25	513.00	1-1586037-6
	18	1.54 (39.0)	A30610-ND	1.62	135.22	540.88	1-1586037-8
	20	1.70 (43.2)	A30611-ND	1.81	150.56	602.23	2-1586037-0
	22	1.87 (47.4)	A30612-ND	1.91	158.92	635.69	2-1586037-2
	24	2.03 (51.6)	A30613-ND	2.02	168.68	674.71	2-1586037-4
Right Angle Without Pegs							
5	2	.21 (5.4)	A30614-ND	.88	73.19	292.76	1586041-2
	4	.38 (9.6)	A30615-ND	.97	80.50	322.01	1586041-4
	6	.54 (13.8)	A30616-ND	1.07	89.04	356.17	1586041-6
	8	.71 (18.0)	A30617-ND	1.17	97.59	390.34	1586041-8
	10	.87 (22.2)	A30618-ND	1.26	104.90	419.60	1-1586041-0
	12	1.04 (26.4)	A30619-ND	1.57	130.52	522.08	1-1586041-2
	14	1.21 (30.6)	A30620-ND	1.67	139.06	556.22	1-1586041-4
	16	1.37 (34.8)	A30621-ND	1.77	147.59	590.37	1-1586041-6
	18	1.54 (39.0)	A30622-ND	1.75	145.98	583.91	1-1586041-8
	20	1.70 (43.2)	A30623-ND	2.03	169.55	678.19	2-1586041-0
	22	1.87 (47.4)	A30624-ND	2.14	178.09	712.35	2-1586041-2
	24	2.03 (51.6)	A30625-ND	2.25	187.84	751.37	2-1586041-4
Right Angle With Flange							
6	2	.35 (9.0)	A30626-ND	.87	72.39	289.54	1586043-2
	4	.52 (13.2)	A30627-ND	.83	69.03	276.11	1586043-4
	6	.69 (17.4)	A30628-ND	.90	74.85	299.41	1586043-6
	8	.85 (21.6)	A30629-ND	1.42	118.50	473.98	1586043-8
	10	1.02 (25.8)	A30630-ND	1.53	127.38	509.52	1-1586043-0
	12	1.18 (30.0)	A30631-ND	1.90	158.48	633.93	1-1586043-2
	14	1.35 (34.2)	A30632-ND	2.03	168.86	675.42	1-1586043-4
	16	1.51 (38.4)	A30633-ND	2.07	172.33	689.30	1-1586043-6
	18	1.68 (42.6)	A30634-ND	2.08	173.64	694.55	1-1586043-8
	20	1.84 (46.8)	A30635-ND	2.09	174.21	696.83	2-1586043-0
	22	2.01 (51.0)	A30636-ND	2.59	216.25	864.99	2-1586043-2
	24	2.17 (55.2)	A30637-ND	2.74	228.10	912.40	2-1586043-4

Wire Size (AWG)	Material and Finish	Digi-Key Part No.	Loose Piece Pricing 1	Loose Piece Pricing 100	Loose Piece Pricing 500	Amp Part No.
Contacts						
Plug Contacts						
26 - 22	Brass, Pre-Tin	A30646-ND	.28	4.00	17.63	1586316-1
	Phos. Brz., Pre-Tin	A30648-ND	.28	6.07	26.80	1586316-3
	Brass, Gold	A30647-ND	.40	25.54	112.67	1586316-2
	Phos. Brz., Gold	A30649-ND	.42	27.24	120.19	1586316-4
22 - 18	Brass, Pre-Tin	A30650-ND	.28	4.00	17.63	1586314-1
	Phos. Brz., Pre-Tin	A30652-ND	.28	6.07	26.80	1586314-3
	Brass, Gold	A30651-ND	.40	25.54	112.67	1586314-2
	Phos. Brz., Gold	A30653-ND	.42	27.24	120.19	1586314-4
Receptacle Contacts						
26 - 22	Brass, Pre-Tin	A30638-ND	.28	4.00	17.63	1586317-1
	Phos. Brz., Pre-Tin	A30640-ND	.28	6.07	26.80	1586317-3
	Brass, Gold	A30639-ND	.62	39.51	174.29	1586317-2
	Phos. Brz., Gold	A30641-ND	.69	44.25	195.24	1586317-4
22 - 18	Brass, Pre-Tin	A30642-ND	.28	4.00	17.63	1586315-1
	Phos. Brz., Pre-Tin	A30644-ND	.28	6.07	26.80	1586315-3
	Brass, Gold	A30643-ND	.62	39.51	174.29	1586315-2
	Phos. Brz., Gold	A30645-ND	.69	44.25	195.24	1586315-4
Tools						
Tool Crimp, 4.2 mm PE, 22-26AWG		A30666-ND	489.35/1			91387-1
Tool Crimp, 4.2 mm PE, 18-22AWG		A30667-ND	489.35/1			91388-1

Metrimate Pin and Socket Connectors

Product Facts: • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189 • Tested to VDE requirements outlined in VDE Test Report No. 4751-1431-1029/A1I 3544 • Designed to meet IEC (440 V) requirements • Polarized housings • Housings made of UL rated 94V-0 thermoplastic

Fig. 1

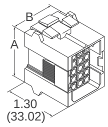

Fig. 2

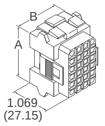

Fig. 3

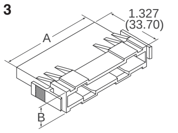

Fig. 4

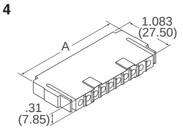

Fig. 5

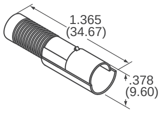

Fig. 6

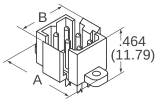

Fig. 7

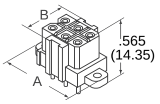

Fig. 8

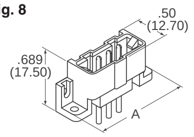

Fig. 9

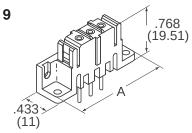

Crimp

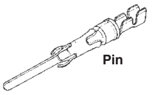

Pin

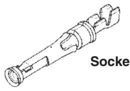

Socket

- **A** Bright tin-lead on entire contact
- **B** Selective gold with 30µ gold on electrical engagement area over 50µ nickel on entire contact

Fig.	No. of Positions	Type	Dimensions Inch (mm)		Digi-Key Part No.	Price Each		AMP Part No.
			A	B		1	100	
Square Grid Housings								
1	4	Receptacle (Use Pin Contacts)	.829 (21.06)	.703 (17.86)	A29192-ND	1.05	.68	207016-1
	6		1.024 (26.01)	.703 (17.86)	A29198-ND	1.20	.77	207153-1
	9		.976 (24.79)	.937 (23.80)	A29200-ND	1.55	1.00	207440-1
	12		1.173 (29.79)	.937 (23.80)	A29194-ND	1.93	1.25	207018-1
	18		1.592 (40.44)	.937 (23.80)	A29202-ND	2.22	1.43	207443-1
	24		1.592 (40.44)	1.096 (27.84)	A29204-ND	2.56	1.65	207305-1
	36		2.183 (55.45)	1.096 (27.84)	A29196-ND	3.42	2.20	207020-1
2	4	Plug (Use Socket Contacts)	.829 (21.06)	.703 (17.86)	A29191-ND	.97	.63	207015-1
	6		1.024 (26.01)	.703 (17.86)	A29197-ND	1.10	.71	207152-1
	9		.981 (24.92)	.937 (23.80)	A29199-ND	1.48	.95	207439-1
	12		1.173 (29.79)	.937 (23.80)	A29193-ND	1.93	1.25	207017-1
	18		1.592 (40.44)	.937 (23.80)	A29201-ND	2.22	1.43	207442-1
	24		1.592 (40.44)	1.096 (27.84)	A29203-ND	2.55	1.64	207304-1
	36		2.183 (55.45)	1.096 (27.84)	A29195-ND	3.05	1.96	207019-1
In-Line Housings								
3	3	Receptacle (Use Pin Contacts)	1.033 (26.25)	.485 (12.32)	A29206-ND	1.07	.69	207359-1
	6		1.625 (41.30)	.485 (12.32)	A29208-ND	1.39	.90	207376-1
	10		2.413 (61.30)	.485 (12.32)	A29190-ND	3.56	2.29	207397-1
	16		3.413 (86.70)	.459 (11.65)	A29211-ND	2.67	1.72	207543-1
4	3	Plug (Use Socket Contacts)	.933 (23.70)	—	A29207-ND	1.09	.71	207360-1
	6		1.524 (38.70)	—	A29209-ND	1.67	1.08	207377-1
	10		2.311 (58.70)	—	A29210-ND	1.80	1.16	207396-1
	16		3.535 (89.79)	—	A29212-ND	2.08	1.34	207542-1
Hermaphroditic Housing (Uses both Pin and Socket Contacts)								
5	1	—	—	—	A29205-ND	1.21	.78	211076-1

Fig.	No. of Positions	Plating	Type	Dimensions Inch (mm)		Digi-Key Part No.	Price Each		AMP Part No.
				A	B		1	100	
Square Grid Vertical Headers									
6	4	Tin	Pin	.890 (22.61)	.500 (12.70)	A30061-ND	5.19	3.72	207119-1
	4	Gold		.890 (22.61)	.500 (12.70)	A30062-ND	7.38	5.29	207119-3
	6	Tin		1.090 (27.69)	.500 (12.70)	A30063-ND	4.56	3.27	207158-1
	6	Gold		1.090 (27.69)	.500 (12.70)	A30064-ND	6.33	4.54	207158-3
	9	Tin		1.090 (27.69)	.737 (18.72)	A30065-ND	6.39	4.58	207441-1
	9	Gold		1.090 (27.69)	.737 (18.72)	A30066-ND	9.69	6.95	207441-3
	12	Tin		1.280 (32.51)	.737 (18.72)	A30067-ND	7.53	5.40	207120-1
	12	Gold		1.280 (32.51)	.737 (18.72)	A30068-ND	10.83	7.77	207120-3
	18	Tin		1.863 (47.32)	.737 (18.72)	A30069-ND	10.92	7.83	207444-1
	18	Gold		1.863 (47.32)	.737 (18.72)	A30070-ND	18.27	13.10	207444-3
	24	Tin		1.863 (47.32)	.941 (23.90)	A30071-ND	13.86	9.94	206763-1
	24	Gold		1.863 (47.32)	.941 (23.90)	A30072-ND	20.28	14.54	206763-3
	36	Tin		2.453 (62.31)	.941 (23.90)	A30073-ND	20.58	14.75	207121-1
	36	Gold		2.453 (62.31)	.941 (23.90)	A30074-ND	30.21	21.66	207121-3
7	4	Tin	Socket	.890 (22.61)	.610 (15.49)	A30075-ND	6.30	5.10	207496-1
	4	Gold		.890 (22.61)	.610 (15.49)	A30076-ND	10.41	5.70	207496-3
	6	Tin		1.090 (27.69)	.610 (15.49)	A30077-ND	4.05	3.29	207524-1
	6	Gold		1.090 (27.69)	.610 (15.49)	A30078-ND	6.20	3.40	207524-3
	9	Tin		1.090 (27.69)	.840 (21.34)	A30079-ND	4.89	3.97	207526-1
	9	Gold		1.090 (27.69)	.840 (21.34)	A30080-ND	13.70	7.50	207526-3
	12	Tin		1.280 (32.51)	.840 (21.34)	A30081-ND	5.59	4.53	207528-1
	12	Gold		1.280 (32.51)	.840 (21.34)	A30082-ND	10.23	5.60	207528-3
	18	Tin		1.863 (47.32)	.840 (21.34)	A30083-ND	8.13	6.58	207530-1
	18	Gold		1.863 (47.32)	.840 (21.34)	A30084-ND	18.23	9.98	207530-3
	24	Tin		1.863 (47.32)	1.006 (25.55)	A30085-ND	10.33	8.37	207532-1
	24	Gold		1.863 (47.32)	1.006 (25.55)	A30086-ND	19.48	10.66	207532-3
	36	Tin		2.453 (62.31)	1.006 (25.55)	A30087-ND	15.27	12.36	207534-1
	36	Gold		2.453 (62.31)	1.006 (25.55)	A30088-ND	28.94	15.84	207534-3
In-Line Vertical Headers									
8	3	Tin	Pin	1.451 (36.86)	—	A30089-ND	4.35	3.12	207365-1
	3	Gold		1.451 (36.86)	—	A30090-ND	5.37	3.85	207365-3
	6	Tin		2.042 (51.87)	—	A30091-ND	5.76	4.13	207583-1
	6	Gold		2.042 (51.87)	—	A30092-ND	7.53	5.40	207583-3
	10	Tin		2.829 (71.86)	—	A30093-ND	8.28	5.94	207584-1
	10	Gold		2.829 (71.86)	—	A30094-ND	11.04	7.92	207584-3
	16	Tin		4.041 (102.64)	—	A30095-ND	11.01	7.90	207599-1
	16	Gold		4.041 (102.64)	—	A30096-ND	15.57	11.16	207599-3
9	3	Tin	Socket	1.439 (36.55)	—	A30097-ND	3.19	2.59	207609-1
	3	Gold		1.439 (36.55)	—	A30098-ND	5.09	2.79	207609-3
	6	Tin		2.031 (51.59)	—	A30099-ND	4.28	3.47	207611-1
	6	Gold		2.031 (51.59)	—	A30100-ND	7.21	3.95	207611-3
	10	Tin		2.819 (71.60)	—	A30060-ND	6.93	5.61	207613-1
	10	Gold		2.819 (71.60)	—	A30101-ND	10.60	5.80	207613-3
	16	Tin		4.007 (101.78)	—	A30102-ND	13.48	10.92	207615-1
	16	Gold		4.007 (101.78)	—	A30103-ND	15.71	8.60	207615-3

Desc.	Wire Size AWG	Insulation Diameter Inch	Cont. Fin.	Digi-Key Part No.	Loose Piece Price Each		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		Digi-Key Part No.	Strip Tape and Reel		AMP Part No.
					10	100			100	500		Size	Pricing	
Crimp														
Pin	26-24	.035-.055	A	—	—	—	66107-2	A1324CT-ND	32.39	148.43	A1324TR-ND	4,000	166.79/M	66106-6
Socket			A	—	—	—	66109-2	A1654CT-ND	51.13	234.36	A1654TR-ND	4,000	263.33/M	66108-6
Pin			B	A1344-ND	.81	.57	66107-4	A1344CT-ND	56.49	258.93	A1344TR-ND	4,000	282.47/M	66106-8
Socket			B	A1345-ND	.97	.68	66109-4	A1345CT-ND	70.22	321.82	A1345TR-ND	4,000	351.08/M	66108-8
Pin	24-20	.040-.080	A	A1322-ND	.54	.38	66103-2	—	—	—	—	—	—	66102-7
Socket			A	A1323-ND	.64	.45	66105-2	A1323CT-ND	40.28	184.64	A1323TR-ND	4,000	207.47/M	66104-7
Pin			B	A1342-ND	.81	.57	66103-4	A1342CT-ND	52.94	242.65	A1342TR-ND	4,000	264.71/M	66102-9
Socket			B	A1343-ND	.97	.68	66105-4	A1343CT-ND	63.28	290.02	A1343TR-ND	4,000	316.38/M	66104-9
Pin	18-16	.080-.100	A	A1649-ND	.54	.38	66099-2	A1649CT-ND	33.10	151.69	—	—	—	66098-7
Socket			A	A1665-ND	.64	.45	66101-2	—	—	—	—	—	—	66100-7
Pin			B	A1340-ND	.81	.57	66099-4	A1340CT-ND	56.65	259.63	A1340TR-ND	4,000	283.23/M	66098-9
Socket			B	A16080-ND	.97	.68	66101-4	A16080CT-ND	63.02	288.83	A16080TR-ND	4,000	315.09/M	66100-9

Tools

Contact Extraction Tool	A1329-ND	12.60/1	305183
Pro-Crimper II Tool with Dies	A9920-ND	145.50/1	58495-1
Certi-Crimp Tool, 26-24 AWG	A9951-ND	519.12/1	91515-1
Certi-Crimp Tool, 24-20 AWG	A9839-ND	519.12/1	91523-1
Crimp Tool, Ratcheting, 18-16 AWG	A9841-ND	468.14/1	91505-1

Fig. 1

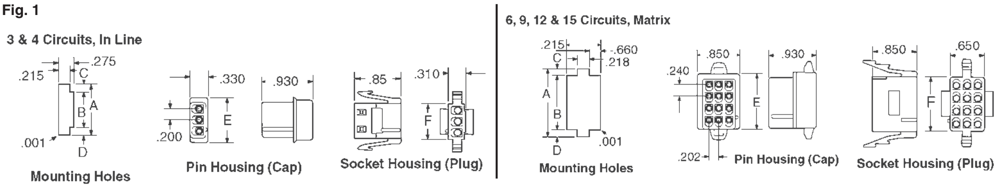

Fig. 2

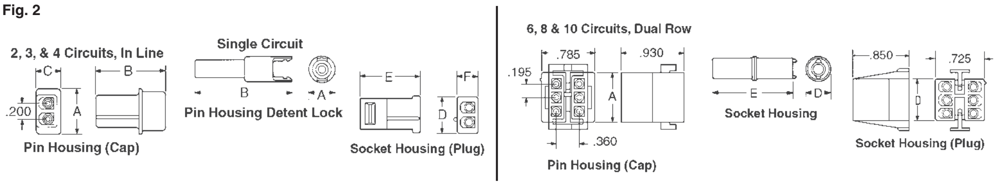

Fig. 3

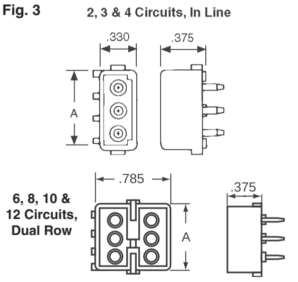

Mate with Free Hanging Socket Connectors
Housing Material: Natural nylon
Pin Material: Copper alloy.
Note: *Use standard pin for .062" (1.57 mm) thick PC board. Use long tail for .125" (3.18 mm) thick PC board.*

Fig. 4

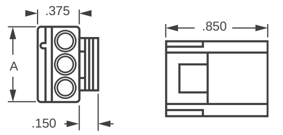

Fig. 5

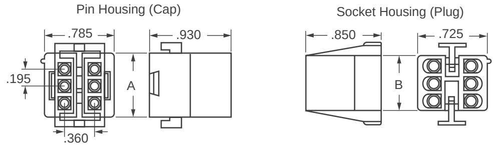

Fig. 6

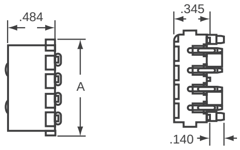

Fig. 7

Mating parts include socket housings, a vertical PC Board socket header and the insulation displacement connectors (IDC)

Specifications:

- Pre-Tin Solder Tail: width .052" (1.32mm)
- Housing Material: Nylon, black
- Flammability Rating: UL94V-2
- Contact: Phosphor bronze
- Pin Material: Copper alloy

Recommended PC Board Layout: .061" (1.57mm) thick PC Board.

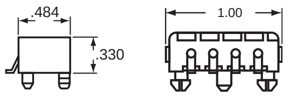

Fig. 8

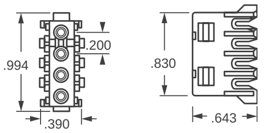

Fig. 9

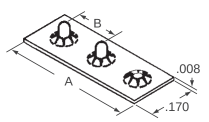

No. of Cir.	Description	Dimensions – Inch						Digi-Key Part No.	Pricing		AMP Part No.
		A	B	C	D	E	F		1	100	
Fig.1 – Panel-Mount Rectangular Connectors (Contacts Sold Separately)											
3	Pin Housing	.890	.645	.123	.123	.810	—	A1400-ND	.29	18.53	1-480305-0
	Socket Housing	.890	.645	.123	.123	—	.630	A1401-ND	.34	21.51	1-480304-0
4	Pin Housing	1.090	.845	.123	.123	1.010	—	A1402-ND	.35	22.50	1-480426-0
	Socket Housing	1.090	.845	.123	.123	—	.830	A1403-ND	.75	47.95	1-480425-0
6	Pin Housing	.850	.575	.138	.138	.655	—	A1404-ND	.58	37.14	1-480276-0
	Socket Housing	.850	.575	.138	.138	—	.565	A1405-ND	.95	60.79	1-480273-0
9	Pin Housing	1.085	.815	.135	.135	.905	—	A1406-ND	1.01	64.52	1-480277-0
	Socket Housing	1.085	.815	.135	.135	—	.805	A1407-ND	1.13	72.35	1-480274-0
12	Pin Housing	1.320	1.050	.135	.135	1.145	—	A1424-ND	1.20	77.09	1-480278-0
	Socket Housing	1.320	1.050	.135	.135	—	1.045	A1425-ND	1.30	83.49	1-480275-0
15	Pin Housing	1.555	1.290	.133	.133	1.382	—	A1426-ND	1.70	108.84	1-480324-0
	Socket Housing	1.555	1.290	.133	.133	—	1.280	A1427-ND	1.91	122.39	1-480323-0
Fig. 2 – Free-Hanging Rectangular Connectors (Contacts Sold Separately)											
1	Pin Housing Detent Lock	.300	1.200	—	—	—	—	A1204-ND	.29	9.87	1-480350-0
	Pin Housing	.300	1.240	—	—	—	—	A1408-ND	.29	8.12	1-480351-0
	Socket Housing	—	—	—	2.60	.870	—	A1409-ND	.29	8.12	1-480349-0
	Pin Housing Detent Lock	.300	1.325	—	—	—	—	A25388-ND*	.39	24.80	1-480401-0
	Socket Housing	—	—	—	.260	.995		A25389-ND*	.29	10.37	1-480400-0
2	Pin Housing	.610	.930	.330	—	—	—	A1410-ND	.29	10.33	1-480319-0
	Socket Housing	—	—	—	.530	.860	.295	A1411-ND	.29	10.29	1-480318-0
	Pin Housing Detent Lock	.610	.930	.330	—	—	—	A25756-ND*	.71	45.70	1-480498-1
	Socket Housing	—	—	—	.530	.860	.295	A25757-ND*	.69	44.03	1-480393-1
3	Pin Housing	.810	.930	.325	—	—	—	A1400-ND	.29	18.53	1-480305-0
	Socket Housing	—	—	—	.825	.850	.290	A1429-ND	.30	19.44	1-480303-0
	Pin Housing Detent Lock	.810	.930	.325	—	—	—	A25414-ND*	.63	40.17	1-480387-0
	Socket Housing	—	—	—	.825	.850	.290	A25415-ND*	.68	43.66	1-480388-0
4	Pin Housing	1.010	.930	.330	—	—	—	A1402-ND	.35	22.50	1-480426-0
	Socket Housing	—	—	—	1.030	.850	.310	A1431-ND	.30	18.94	1-480424-0
	Pin Housing Detent Lock	1.010	.930	.330	—	—	—	A25416-ND†	1.72	110.45	794132-1
	Socket Housing	—	—	—	1.030	.850	.310	A25417-ND†	.50	31.78	770827-1
6	Pin Housing	.705	—	—	—	—	—	A1412-ND	.84	53.69	1-480340-0
	Socket Housing	—	—	—	.610	—	—	A1413-ND	.59	37.92	1-480270-0
8	Pin Housing	.900	—	—	—	—	—	A1206-ND	.92	58.89	1-480345-0
	Socket Housing	—	—	—	—	.805	—	A1207-ND	.62	39.75	1-480283-0
10	Pin Housing	1.095	—	—	—	—	—	A1414-ND	1.05	67.52	1-480339-0
	Socket Housing	—	—	—	1.00	—	—	A1415-ND	1.18	75.98	1-480285-0

No. of Circuits	Description	Dimension – Inch		Digi-Key Part No.	Pricing		AMP Part No.
		A	B		1	100	
Fig. 3 – Printed Circuit Board Pin Header Assemblies – Mate Socket Housing							
2	Pre-Tin with Detent Lock	.515	—	A1208-ND	.58	41.78	350209-1
	Gold with Detent Lock	.515	—	A32180-ND◊	1.97	141.25	1586512-2
	Pre-Tin Positive Lock	.515	—	A14364-ND	.77	55.05	350539-1
	Gold Positive Lock	.515	—	A14365-ND	2.36	169.09	350539-2
	Gold Positive Lock	.515	—	A32186-ND◊	2.36	169.09	1586530-2
	Pre-Tin with Positive Lock Long Tail	.515	—	A14366-ND	1.66	119.24	350540-1
	Pre-Tin Detent Lock Long Tail	.515	—	A14367-ND	1.01	72.50	350422-1
3	Pre-Tin with Detent Lock	.715	—	A1210-ND	.93	66.48	350210-1
	Gold with Detent Lock	.715	—	A32181-ND◊	3.00	215.10	1586514-2
	Pre-Tin Positive Lock	.715	—	A14368-ND	1.76	126.14	350541-1
	Gold Positive Lock	.715	—	A32187-ND◊	3.39	242.96	1586532-2
	Pre-Tin Detent Lock Long Tail	.715	—	A14370-ND	1.32	94.93	350423-1
4	Pre-Tin with Detent Lock	.915	—	A1212-ND	.87	62.26	350211-1
	Gold with Detent Lock	.915	—	A32182-ND◊	2.40	171.87	1586515-2
	Pre-Tin Positive Lock	.915	—	A14371-ND	1.68	120.54	350543-1
	Gold Positive Lock	.915	—	A14372-ND	5.37	384.56	350543-2
	Gold Positive Lock	.915	—	A32188-ND◊	4.66	333.72	1586534-2
	Pre-Tin Positive Lock Long Tail	.915	—	A14373-ND	2.98	213.44	350544-1
	Pre-Tin Detent Lock Long Tail	.915	—	A14374-ND	1.55	111.03	350424-1
	Gold Detent Lock Long Tail	.915	—	A32185-ND◊	7.92	567.64	1586525-2
6	Pre-Tin Positive Lock Dual Row	.705	—	A1214-ND	1.19	85.36	1-380999-0
	Gold Positive Lock Dual Row	.705	—	A1215-ND	5.05	361.63	2-380999-0
	Pre-Tin Positive Lock Long Tail Dual Row	.705	—	A14376-ND	1.86	133.22	350425-1
8	Pre-Tin Positive Lock Dual Row	.900	—	A1216-ND	1.38	99.09	350212-1
	Pre-Tin Positive Lock Long Tail	.900	—	A14377-ND	2.10	150.71	350426-1

* UV Stable Black Color † Housing Material: UL94V-0 Rated ◊ ***RoHS Compliant***

(Continued)

No. of Circuits	Description	Dimension – Inch A	B	Digi-Key Part No.	Pricing 1	100	AMP Part No.
8	Gold Positive Lock Dual Row	.900	—	A1217-ND	6.70	480.04	350212-2
	Gold Positive Lock Dual Row	.900	—	A32183-ND◊	5.80	415.95	1586518-2
10	Pre-Tin Positive Lock Dual Row	1.095	—	A1218-ND	1.63	116.89	1-380991-0
	Gold Positive Lock Dual Row	1.095	—	A1219-ND	7.66	549.05	2-380991-0
	Pre-Tin Positive Lock Long Tail	1.095	—	A14378-ND	3.02	216.42	350219-1
12	Pre-Tin Positive Lock	1.290	—	A14379-ND	3.06	219.05	350213-1
	Pre-Tin Positive Lock Long Tail	1.290	—	A14380-ND	3.19	228.54	350220-1
16	Pre-Tin Positive Lock	1.680	—	A14381-ND	3.77	270.03	350214-1
	Pre-Tin Positive Lock Long Tail	1.680	—	A14382-ND	4.92	352.87	350427-1
Fig. 3 – PC Board Vertical Pin Header – Mate with Socket Housing – UL94V-2							
4	Pre-Tin, with Detent Lock	.915	—	A25420-ND	1.12	80.32	770328-1
	Pre-Tin, with Detent Lock Housing Material UL94V-0	.915	—	A25422-ND	.95	67.93	794236-1
12	Gold with Positive Lock	1.290	—	A32184-ND◊	8.82	631.78	1586520-2
Fig. 3 – PC Board Vertical Socket Header – Mate with Pin Housing – UL94V-2							
4	Pre-Tin, In-Line, SMT Compatible	1.000	—	A25425-ND	1.26	102.13	794287-1
6	Pre-Tin, Matrix	.720	—	A25763-ND	2.10	170.00	350641-1
9	Pre-Tin, Matrix	.960	—	A25764-ND	1.57	126.91	350642-1
12	Pre-Tin, Matrix	1.200	—	A25426-ND	3.01	243.51	350643-1
15	Pre-Tin, Matrix	1.440	—	A25765-ND	3.68	297.65	350644-1
Fig. 4 – Positive Lock Socket Housing							
2	Socket Housing (Plug)	.435	—	A14357-ND	.51	32.89	1-480720-0
3	Socket Housing (Plug)	.630	—	A14358-ND	1.07	68.73	1-480721-0
4	Socket Housing (Plug)	.830	—	A14359-ND	1.17	75.01	1-480722-0
Fig. 5 – Motor Mount Housing (Positive Lock)							
6	Pin Housing (Cap)	.705	—	A14361-ND	.88	56.13	1-480271-0
6	Socket Housing (Plug)	—	.610	A1413-ND	.59	37.92	1-480270-0
8	Pin Housing (Cap)	.900	—	A25410-ND	1.47	94.23	1-480284-0
10	Pin Housing (Cap)	1.095	—	A25411-ND	1.68	107.94	1-480286-0
12	Pin Housing (Cap)	1.290	—	A25413-ND	1.84	117.99	1-480288-0
12	Socket Housing (Plug)	—	1.195	A25412-ND	1.30	83.49	1-480287-0
16	Pin Housing (Cap)	1.680	—	A14363-ND	1.47	94.04	1-480439-0
16	Socket Housing (Plug)	—	1.585	A14362-ND	1.92	123.12	1-480438-0

No. of Circuits	Description	Dimension – Inch A	B	Digi-Key Part No.	Pricing 1	100	AMP Part No.
Fig. 6 – PC Board Right Angle Pin Headers - Mates with Socket Housing							
2	UL94V-2, Nylon, Natural	.600	—	A25753-ND	1.90	136.07	794120-1
3	UL94V-0, Nylon	.800	—	A25429-ND	2.59	185.66	643488-1
4	UL94V-2, Nylon, Natural	1.000	—	A25430-ND	1.42	101.85	641737-1
	UL94V-2, Nylon, Natural, Surface Mount Compatible	1.000	—	A25431-ND	2.30	165.15	770846-1
	UL94V-0, Nylon	1.000	—	A25432-ND	2.16	154.77	1-641737-1
Fig. 7 – PC Board Surface Mount Pin Header							
4	Pin Header, In-Line	—	—	A25424-ND	2.07	148.17	770829-1
Fig. 8 – Insulation Displacement Connector (IDC)							
	Pre-Tin, 22AWG, Red, UL94V-2			A14383-ND	.61	49.43	770156-2
	Pre-Tin, 22AWG, Red, UL94V-0			A25433-ND	.87	70.58	794036-3
	Pre-Tin Pin Finish 20AWG, Yellow, UL94V-2			A14384-ND	.61	49.43	770156-4
	Pre-Tin, 20AWG, Yellow, UL94V-0			A25434-ND	.87	70.58	794036-2
	Pre-Tin Pin Finish 18AWG, Orange, UL94V-2			A14385-ND	.61	49.43	770156-3
	Pre-Tin, 18AWG, Orange, UL94V-0			A25435-ND	1.08	87.50	794036-1
	Pre-Tin, 16AWG, Blue, UL94V-2			A25436-ND	.94	76.48	770156-5
	Pre-Tin, 16AWG, Blue, UL94˜V-0			A25437-ND	.87	70.58	794036-4
Dust Covers for IDC Parts - UL94V-2							
	For Feed-To Wiring, Polyester, White	—	—	A25438-ND	.18	14.95	770232-1
	For Feed-Thru Wiring, Polyester, White	—	—	A25439-ND	.19	15.49	770233-1
Fig. 9 – Commoning Tabs - Use With Pin Housing							
	2 Holes, Brass, Tin Plated	.377	.203	A25427-ND	.06	4.76	60843-1
	3 Holes, Brass, Tin Plated	.579	.203	A25428-ND	.06	5.21	60842-1
Tools							
	Certicrimp Crimp Tool, 30-22AWG, .035”-.055” Insulation Diameter			A9951-ND		519.12/1	91515-1
	Certicrimp Crimp Tool, 24-18AWG, .043”-.100” Insulation Diameter			A9948-ND		551.57/1	91528-1
	Certicrimp Crimp Tool, 24-18AWG, .060”-.100” Insulation Diameter			A9974-ND		495.95/1	91512-1
	Certicrimp Crimp Tool, 20-14AWG, .100”-.130” Insulation Diameter			A9908-ND		457.32/1	91504-1
	Pro-Crimper III Crimp Tool Without Dies			A9996-ND		66.00/1	354940-1
	Pro-Crimper III Crimp Tool, With Dies, 24-18AWG			A25418-ND		159.99/1	90574-1
	Pro-Crimper III Crimp Tool, With Dies, 20-14AWG			A25419-ND		159.99/1	90575-1
	Die Set for Pro-Crimper III 24-18AWG			A9940-ND		106.05/1	90574-2
	Die Set for Pro-Crimper III 20-14AWG			A9939-ND		106.05/1	90575-2
	Contact Extraction Tool			A1419-ND		13.23/1	465644-1
	Contact Insertion Tool			A9998-ND		18.63/1	91002-1
	Contact Insertion Tool (Tweezer Type)			A1444-ND		17.06/1	455830-1

* UV Stable Black Color † Housing Material: UL94V-0 Rated ◊ ***RoHS Compliant***

Contacts

Fig. 1

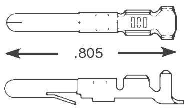

Pin

- Carries up to 15 amps maximum (based on 30°C temperature rise)
- Low insertion/extraction forces
- UL recognized for 250 volts, AC/DC
- CSA certified

Fig. 2

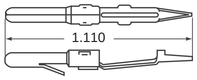

Pin

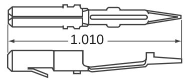

Socket

For PC board with the following specifications:
- Board Thickness: .062” (1.57mm)
- Board Hole Size: .057” (1.45mm)

Description	Insul. Dia. Range Inch	Digi-Key Part No.	Pricing 10	100	AMP Part No.	Digi-Key Part No.	Tape and Reel* Size	Pricing	AMP Part No.
Fig. 1 – Crimp Contacts (Pins & Sockets)									
Pin, Brass, Pre-Tin	30-22AWG .040 - .075	A25547-ND	1.95	13.09	61174-1	A25547TR-ND	8,000	32.03/M	350079-1
Socket, Brass, Pre-Tin		A25548-ND	1.95	13.09	61173-1	A25548TR-ND	6,500	32.03/M	350078-1
Pin, Phosphor Bronze, Pre-Tin		—	—	—	—	A25549TR-ND	8,000	71.55/M	350079-4
Socket, Phosphor Bronze, Pre-Tin		A25550-ND	3.08	20.75	61173-4	A25550TR-ND	6,500	66.08/M	350078-4
Pin, Brass, Gold		A25552-ND	15.25	102.60	61174-5	A25552TR-ND	8,000	471.59/M	350079-5
Socket, Brass, Gold		A25767-ND	15.25	102.60	61173-5	—	—	—	—
Pin, Brass, Pre-Tin	24-18AWG .060 - .100	A1422-ND	1.32	8.87	60618-1	—	—	—	—
Socket, Brass, Pre-Tin		A1423-ND	1.30	8.76	60617-1	—	—	—	—
Pin, Phosphor Bronze, Pre-Tin		A25554-ND	2.87	19.33	60618-4	A25554TR-ND	8,000	66.08/M	61116-4
Socket, Phosphor Bronze, Pre-Tin		A25555-ND	2.87	19.33	60617-4	A25555TR-ND	7,000	49.47/M	61314-4
Pin, Brass, Gold		A1432-ND	12.46	83.80	60618-5	—	—	—	—
Socket, Brass, Gold		A1433-ND	12.46	83.80	60617-5	A1433TR-ND	7,000	472.17/M	61314-5
Pin, Phosphor Bronze, Select Gold		A25558-ND	15.04	101.17	60618-6	—	—	—	—
Socket, Phosphor Bronze, Select Gold		A25559-ND	12.84	86.37	60617-6	A25559TR-ND	7,000	405.44/M	61314-6
Pin, Brass, Select Gold		—	—	—	—	A25560TR-ND	8,000	266.55/M	61116-7
Pin, Brass, Pre-Tin	20-14AWG .100 - .130	A1420-ND	1.30	8.76	60620-1	—	—	—	—
Socket, Brass, Pre-Tin		A1421-ND	1.30	8.76	60619-1	—	—	—	—
Pin, Phosphor Bronze, Pre-Tin		A25561-ND	2.87	19.33	60620-4	—	—	—	—
Socket, Phosphor Bronze, Pre-Tin		A25562-ND	2.87	19.33	60619-4	—	—	—	—
Pin, Brass, Gold		A1434-ND	11.81	79.45	60620-5	A1434TR-ND	5,000	471.59/M	61118-5
Socket, Brass, Gold		A1435-ND	12.46	83.80	60619-5	—	—	—	—
Socket, Phosphor Bronze, Gold		A25565-ND	14.30	96.17	60619-7	A25565TR-ND	5,000	561.15/M	61117-6
Pin, (2)18 or (1)18 and (1)16AWG, Brass, Pre-Tin	.115 Max. (stacked)	A25568-ND	1.95	13.09	350639-1	A25568TR-ND	3,000	50.90/M	350558-1
Socket, (2)18 or (1)18 and (1)16AWG, Brass, Pre-Tin		—	—	—	—	A25567TR-ND	3,000	50.90/M	350557-1
Pin, (2)18 or (1)18 and (1)16AWG, Phos. Bronze, Pre-Tin		—	—	—	—	A25769TR-ND	3,000	95.22/M	350558-4
Socket, (2)18 or (1)18 and (1)16AWG, Phos. Brz., Pre-Tin		A25570-ND	2.87	19.32	350638-4	A25570TR-ND	3,000	95.22/M	350557-4
Fig. 2 – PC Board Contacts									
Pin, Phosphor Bronze, Pre-Tin	—	A24727-ND	1.85	12.42	61518-1	—	—	—	—
Socket, Phosphor Bronze, Pre-Tin	—	A24728-ND	1.95	13.09	61320-1	—	—	—	—
Keying Plug									
Nylon, Natural UL94V-2	—	A16066-ND	—	14.64	200821-1	—	—	—	—

Gold Finish - Plated with .000030 minimum gold in mating area and inside wire barrel over .000050 minimum nickel Select Gold Finish - Plated with .000030 minimum gold in mating area over .000050 minimum nickel * The TR are also available in CT.

Micro MATE-N-LOK® Connectors

Features:
- Wire-to-wire and wire-to-board pin and receptacle connector system
- Contacts are on 3mm (.118 inch) centerline spacing

Characteristics:
- Voltage Rating: 250VAC
- Current Rating: 5 Amp maximum on 20 AWG wire
- Operating Temperature: -40°C ~ 105°C

Approvals:
- Underwriters Laboratories Inc.
- File No. E28476

Fig. 1

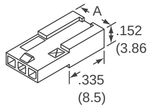

Fig. 2

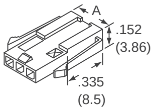

Fig. 3

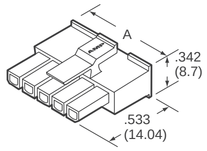

Fig. 4

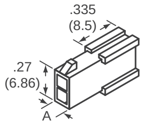

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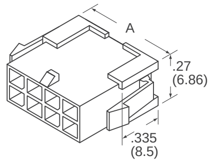

Fig. 6

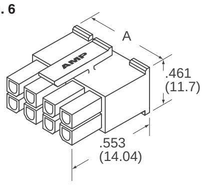

Fig. 7

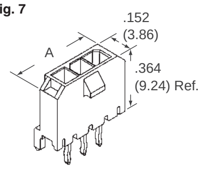

Fig. 8

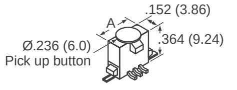

Fig. 9

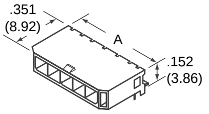

Fig. 10

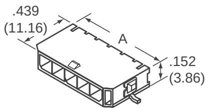

Fig. 11

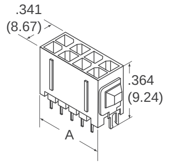

Fig. 12

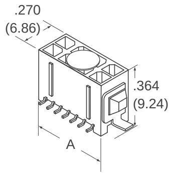

Fig. 13

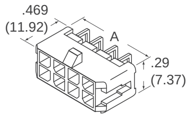

Fig. 14

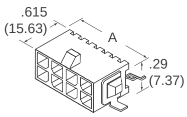

Fig.	No. of Cir-cuits	Dim. (mm) A	Plating	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		AMP Part No.
					1	100	1,000		Size	Price	
Plug Housing — Single Row, Free Hanging											
1	2	6.85	—	A30236-ND	.41	.27	.21	—	—	—	1445049-2
	3	9.85	—	A30237-ND	.47	.31	.24	—	—	—	1445049-3
	4	12.85	—	A30238-ND	.54	.35	.28	—	—	—	1445049-4
	5	15.85	—	A30239-ND	.60	.39	.31	—	—	—	1445049-5
	6	18.85	—	A30240-ND	.67	.43	.34	—	—	—	1445049-6
	7	21.85	—	A30241-ND	.73	.48	.37	—	—	—	1445049-7
	8	24.85	—	A30242-ND	.80	.52	.41	—	—	—	1445049-8
	9	27.85	—	A30243-ND	.86	.56	.44	—	—	—	1445049-9
	10	30.85	—	A30244-ND	.93	.60	.47	—	—	—	1-1445049-0
	11	33.85	—	A30245-ND	1.08	.70	.54	—	—	—	1-1445049-1
	12	36.85	—	A30246-ND	1.06	.68	.54	—	—	—	1-1445049-2
Plug Housing — Single Row, Panel Mount											
2	2	6.85	—	A30247-ND	.41	.27	.21	—	—	—	1445048-2
	3	9.85	—	A30248-ND	.47	.31	.24	—	—	—	1445048-3
	4	12.85	—	A30249-ND	.54	.35	.28	—	—	—	1445048-4
	5	15.85	—	A30250-ND	.60	.39	.31	—	—	—	1445048-5
	6	18.85	—	A30251-ND	.67	.43	.34	—	—	—	1445048-6
	7	21.85	—	A30252-ND	.73	.48	.37	—	—	—	1445048-7
	8	24.85	—	A30253-ND	.80	.52	.41	—	—	—	1445048-8
	9	27.85	—	A30254-ND	.86	.56	.44	—	—	—	1445048-9
	10	30.85	—	A30255-ND	.93	.60	.47	—	—	—	1-1445048-0
	11	33.85	—	A30256-ND	1.08	.70	.54	—	—	—	1-1445048-1
	12	36.85	—	A30257-ND	1.06	.68	.54	—	—	—	1-1445048-2
Receptacle Housing — Single Row											
3	2	7.00	—	A30258-ND	.41	.27	.21	—	—	—	1445022-2
	3	10.00	—	A30259-ND	.48	.31	.24	—	—	—	1445022-3
	4	13.00	—	A30260-ND	.54	.35	.28	—	—	—	1445022-4
	5	16.00	—	A30261-ND	.61	.40	.31	—	—	—	1445022-5
	6	19.00	—	A30262-ND	.67	.44	.34	—	—	—	1445022-6
	7	22.00	—	A30263-ND	.74	.48	.38	—	—	—	1445022-7
	8	25.00	—	A30264-ND	.80	.52	.41	—	—	—	1445022-8
	9	28.00	—	A30265-ND	.87	.56	.44	—	—	—	1445022-9
	10	31.00	—	A30266-ND	.93	.60	.47	—	—	—	1-1445022-0
	11	34.00	—	A30267-ND	1.00	.65	.51	—	—	—	1-1445022-1
	12	37.00	—	A30268-ND	1.06	.69	.54	—	—	—	1-1445022-2
Plug Housing — Dual Row, Free Hanging											
4	2	3.85	—	A30269-ND	.41	.27	.21	—	—	—	794616-2
	4	6.85	—	A30270-ND	.54	.35	.28	—	—	—	794616-4
	6	9.85	—	A30271-ND	.67	.43	.34	—	—	—	794616-6
	8	12.85	—	A30272-ND	.80	.52	.41	—	—	—	794616-8
	10	15.85	—	A30273-ND	.93	.60	.47	—	—	—	1-794616-0
	12	18.85	—	A30274-ND	1.06	.68	.54	—	—	—	1-794616-2
	14	21.85	—	A30275-ND	1.19	.77	.60	—	—	—	1-794616-4
	16	24.85	—	A30276-ND	1.32	.85	.67	—	—	—	1-794616-6
	18	27.85	—	A30277-ND	1.45	.93	.73	—	—	—	1-794616-8
	20	30.85	—	A30278-ND	1.58	1.02	.80	—	—	—	2-794616-0
	22	33.85	—	A30279-ND	1.85	1.19	.93	—	—	—	2-794616-2
	24	36.85	—	A30280-ND	1.99	1.28	1.00	—	—	—	2-794616-4
Plug Housing — Dual Row, Panel Mount											
5	2	3.85	—	A30281-ND	.41	.27	.21	—	—	—	794615-2
	4	6.85	—	A30282-ND	.54	.35	.28	—	—	—	794615-4
	6	9.85	—	A30283-ND	.67	.43	.34	—	—	—	794615-6
	8	12.85	—	A30284-ND	.80	.52	.41	—	—	—	794615-8
	10	15.85	—	A30285-ND	.93	.60	.47	—	—	—	1-794615-0
5	12	18.85	—	A30286-ND	1.06	.68	.54	—	—	—	1-794615-2
	14	21.85	—	A30287-ND	1.19	.77	.60	—	—	—	1-794615-4
	16	24.85	—	A30288-ND	1.43	.92	.72	—	—	—	1-794615-6
	18	27.85	—	A30289-ND	1.57	1.01	.79	—	—	—	1-794615-8
	20	30.85	—	A30290-ND	1.71	1.10	.86	—	—	—	2-794615-0
	22	33.85	—	A30291-ND	1.71	1.10	.86	—	—	—	2-794615-2
	24	36.85	—	A30292-ND	1.83	1.18	.93	—	—	—	2-794615-4
Receptacle Housing — Dual Row											
6	2	4.00	—	A30293-ND	.38	.25	.20	—	—	—	794617-2
	4	7.00	—	A30294-ND	.42	.28	.22	—	—	—	794617-4
	6	10.00	—	A30295-ND	.47	.30	.24	—	—	—	794617-6
	8	13.00	—	A30296-ND	.51	.33	.26	—	—	—	794617-8
	10	16.00	—	A30297-ND	.56	.37	.29	—	—	—	1-794617-0
	12	19.00	—	A30298-ND	.62	.40	.32	—	—	—	1-794617-2
	14	22.00	—	A30299-ND	.68	.44	.35	—	—	—	1-794617-4
	16	25.00	—	A30300-ND	.75	.49	.38	—	—	—	1-794617-6
	18	28.00	—	A30301-ND	.82	.53	.42	—	—	—	1-794617-8
	20	31.00	—	A30302-ND	.91	.59	.46	—	—	—	2-794617-0
	22	34.00	—	A30303-ND	1.00	.64	.51	—	—	—	2-794617-2
	24	37.00	—	A30304-ND	1.10	.71	.56	—	—	—	2-794617-4
Vertical Thru Hole Header — Single Row											
7	2	7.00	Tin	A30314-ND	1.56	1.13	.71	—	—	—	1445050-2
	3	10.00	Tin	A30315-ND	1.85	1.33	.84	—	—	—	1445050-3
	4	13.00	Tin	A30316-ND	2.14	1.54	.97	—	—	—	1445050-4
	5	16.00	Tin	A30317-ND	2.43	1.75	1.10	—	—	—	1445050-5
	6	19.00	Tin	A30318-ND	2.72	1.96	1.23	—	—	—	1445050-6
	7	22.00	Tin	A30319-ND	3.01	2.16	1.36	—	—	—	1445050-7
	8	25.00	Tin	A30320-ND	3.30	2.37	1.49	—	—	—	1445050-8
	9	28.00	Tin	A30321-ND	3.59	2.58	1.62	—	—	—	1445050-9
	10	31.00	Tin	A30322-ND	3.88	2.79	1.75	—	—	—	1-1445050-0
	11	34.00	Tin	A30323-ND	4.17	2.99	1.88	—	—	—	1-1445050-1
	12	37.00	Tin	A30324-ND	4.46	3.20	2.01	—	—	—	1-1445050-2
Vertical Thru Hole Header — Single Row											
7	2	7.00	Gold	A30325-ND	1.56	1.13	.71	—	—	—	1445093-2
	3	10.00	Gold	A30326-ND	1.85	1.33	.84	—	—	—	1445093-3
	4	13.00	Gold	A30327-ND	2.14	1.54	.97	—	—	—	1445093-4
	5	16.00	Gold	A30328-ND	2.43	1.75	1.10	—	—	—	1445093-5
	6	19.00	Gold	A30329-ND	2.72	1.96	1.23	—	—	—	1445093-6
	7	22.00	Gold	A30330-ND	3.01	2.16	1.36	—	—	—	1445093-7
	8	25.00	Gold	A30331-ND	3.30	2.37	1.49	—	—	—	1445093-8
	9	28.00	Gold	A30332-ND	3.59	2.58	1.62	—	—	—	1445093-9
	10	31.00	Gold	A30333-ND	3.88	2.79	1.75	—	—	—	1-1445093-0
	11	34.00	Gold	A30334-ND	4.17	2.99	1.88	—	—	—	1-1445093-1
	12	37.00	Gold	A30335-ND	4.46	3.20	2.01	—	—	—	1-1445093-2
Vertical Surface Mount Header — Single Row, with Surface Mount Holddowns											
8	2	10.00	Tin	A30336CT-ND*	2.88	1.73	—	A30336TR-ND	210	293.71	1445053-2
	3	13.00	Tin	A30337CT-ND*	3.41	2.05	—	A30337TR-ND	210	347.95	1445053-3
	4	16.00	Tin	A30338CT-ND*	3.94	2.37	—	A30338TR-ND	210	402.18	1445053-4
	5	19.00	Tin	A30339CT-ND*	4.47	2.69	—	A30339TR-ND	210	456.42	1445053-5
	6	22.00	Tin	A30340CT-ND*	5.01	3.01	—	A30340TR-ND	210	510.66	1445053-6
	7	25.00	Tin	A30341CT-ND*	5.54	3.33	—	A30341TR-ND	210	564.90	1445053-7
	8	28.00	Tin	A30342CT-ND*	6.07	3.65	—	A30342TR-ND	210	619.14	1445053-8
	9	31.00	Tin	A30343CT-ND*	6.60	3.97	—	A30343TR-ND	210	673.38	1445053-9
	10	34.00	Tin	A30344CT-ND*	7.13	4.29	—	A30344TR-ND	210	727.62	1-1445053-0

* Cut Tape ** Loose Piece

(Continued)

Micro MATE-N-LOK® Connectors *(Cont.)*

Fig.	No. of Cir-cuits	Dim. (mm) A	Plating	Digi-Key Part No.	Price Each 1	100	1,000	Digi-Key Part No.	Tape & Reel Size	Price	AMP Part No.
8	11	37.00	Tin	A30345CT-ND*	7.67	4.60	—	A30345TR-ND	210	781.86	1-1445053-1
	12	40.00	Tin	A30346CT-ND*	8.20	4.92	—	A30346TR-ND	210	836.09	1-1445053-2
Vertical Surface Mount Header — Single Row, with Surface Mount Holddowns											
8	2	10.00	Gold	A30347CT-ND*	2.88	1.73	—	A30347TR-ND	210	293.71	1445096-2
	3	13.00	Gold	A30348CT-ND*	3.41	2.05	—	A30348TR-ND	210	347.95	1445096-3
	4	16.00	Gold	A30349CT-ND*	3.94	2.37	—	A30349TR-ND	210	402.18	1445096-4
	5	19.00	Gold	A30350CT-ND*	4.47	2.69	—	A30350TR-ND	210	456.42	1445096-5
	6	22.00	Gold	A30351CT-ND*	5.01	3.01	—	A30351TR-ND	210	510.66	1445096-6
	7	25.00	Gold	A30352CT-ND*	5.54	3.33	—	A30352TR-ND	210	564.90	1445096-7
	8	28.00	Gold	A30353CT-ND*	6.07	3.65	—	A30353TR-ND	210	619.14	1445096-8
	9	31.00	Gold	A30354CT-ND*	6.60	3.97	—	A30354TR-ND	210	673.38	1445096-9
	10	34.00	Gold	A30355CT-ND*	7.13	4.29	—	A30355TR-ND	210	727.62	1-1445096-0
	11	37.00	Gold	A30356CT-ND*	7.67	4.60	—	A30356TR-ND	210	781.86	1-1445096-1
	12	40.00	Gold	A30357CT-ND*	8.20	4.92	—	A30357TR-ND	210	836.09	1-1445096-2
Right Angle Thru Hole Header — Single Row, with Plastic Holddowns											
9	2	10.14	Tin	A30358-ND	1.56	1.13	.71	—	—	—	1445055-2
	3	13.14	Tin	A30359-ND	1.85	1.33	.84	—	—	—	1445055-3
	4	16.14	Tin	A30360-ND	2.14	1.54	.97	—	—	—	1445055-4
	5	19.14	Tin	A30361-ND	2.43	1.75	1.10	—	—	—	1445055-5
	6	22.14	Tin	A30362-ND	2.72	1.96	1.23	—	—	—	1445055-6
	7	25.14	Tin	A30363-ND	3.01	2.16	1.36	—	—	—	1445055-7
	8	28.14	Tin	A30364-ND	3.30	2.37	1.49	—	—	—	1445055-8
	9	31.14	Tin	A30365-ND	3.59	2.58	1.62	—	—	—	1445055-9
	10	34.14	Tin	A30366-ND	3.88	2.79	1.75	—	—	—	1-1445055-0
	11	37.14	Tin	A30367-ND	4.17	2.99	1.88	—	—	—	1-1445055-1
	12	40.14	Tin	A30368-ND	4.46	3.20	2.01	—	—	—	1-1445055-2
Right Angle Thru Hole Header — Single Row, with Plastic Holddowns											
9	2	10.14	Gold	A30369-ND	1.56	1.13	.71	—	—	—	1445098-2
	3	13.14	Gold	A30370-ND	1.85	1.33	.84	—	—	—	1445098-3
	4	16.14	Gold	A30371-ND	2.14	1.54	.97	—	—	—	1445098-4
	5	19.14	Gold	A30372-ND	2.43	1.75	1.10	—	—	—	1445098-5
	6	22.14	Gold	A30373-ND	2.72	1.96	1.23	—	—	—	1445098-6
	7	25.14	Gold	A30374-ND	3.01	2.16	1.36	—	—	—	1445098-7
	8	28.14	Gold	A30375-ND	3.30	2.37	1.49	—	—	—	1445098-8
	9	31.14	Gold	A30376-ND	3.59	2.58	1.62	—	—	—	1445098-9
	10	34.14	Gold	A30377-ND	3.88	2.79	1.75	—	—	—	1-1445098-0
	11	37.14	Gold	A30378-ND	4.17	2.99	1.88	—	—	—	1-1445098-1
	12	40.14	Gold	A30379-ND	4.46	3.20	2.01	—	—	—	1-1445098-2
Right Angle Surface Mount Header — Single Row, with Surface Mount Holddowns											
10	2	10.00	Tin	A30380CT-ND*	2.28	1.38	—	A30380TR-ND	215	238.55	1445057-2
	3	13.00	Tin	A30381CT-ND*	2.71	1.63	—	A30381TR-ND	215	282.67	1445057-3
	4	16.00	Tin	A30382CT-ND*	4.40	2.64	—	A30382TR-ND	215	459.07	1445057-4
	5	19.00	Tin	A30383CT-ND*	3.55	2.14	—	A30383TR-ND	215	370.86	1445057-5
	6	22.00	Tin	A30384CT-ND*	3.97	2.39	—	A30384TR-ND	215	414.97	1445057-6
	7	25.00	Tin	A30385CT-ND*	4.40	2.64	—	A30385TR-ND	215	459.07	1445057-7
	8	28.00	Tin	A30386CT-ND*	4.82	2.90	—	A30386TR-ND	215	503.18	1445057-8
	9	31.00	Tin	A30387CT-ND*	5.24	3.15	—	A30387TR-ND	215	547.29	1445057-9
	10	34.00	Tin	A30388CT-ND*	5.66	3.40	—	A30388TR-ND	215	591.39	1-1445057-0
	11	37.00	Tin	A30389CT-ND*	6.09	3.66	—	A30389TR-ND	215	635.49	1-1445057-1
	12	40.00	Tin	A30390CT-ND*	6.51	3.91	—	A30390TR-ND	215	679.59	1-1445057-2
Right Angle Surface Mount Header — Single Row, with Surface Mount Holddowns											
10	2	10.00	Gold	A30391CT-ND*	2.88	1.73	—	A30391TR-ND	215	300.70	1445100-2
	3	13.00	Gold	A30392CT-ND*	3.41	2.05	—	A30392TR-ND	215	356.23	1445100-3
	4	16.00	Gold	A30393CT-ND*	3.94	2.37	—	A30393TR-ND	215	411.76	1445100-4
	5	19.00	Gold	A30394CT-ND*	4.47	2.69	—	A30394TR-ND	215	467.29	1445100-5
	6	22.00	Gold	A30395CT-ND*	5.01	3.01	—	A30395TR-ND	215	522.82	1445100-6
	7	25.00	Gold	A30396CT-ND*	5.54	3.33	—	A30396TR-ND	215	578.35	1445100-7
	8	28.00	Gold	A30397CT-ND*	6.07	3.65	—	A30397TR-ND	215	633.88	1445100-8
	9	31.00	Gold	A30398CT-ND*	6.60	3.97	—	A30398TR-ND	215	689.42	1445100-9
	10	34.00	Gold	A30399CT-ND*	7.13	4.29	—	A30399TR-ND	215	744.94	1-1445100-0
	11	37.00	Gold	A30400CT-ND*	7.67	4.60	—	A30400TR-ND	215	800.47	1-1445100-1
	12	40.00	Gold	A30401CT-ND*	8.20	4.92	—	A30401TR-ND	215	856.00	1-1445100-2
Vertical Thru Hole Header — Dual Row											
11	2	7.00	Tin	A30402-ND	1.07	.77	.49	—	—	—	794630-2
	4	10.00	Tin	A30403-ND	1.49	1.07	.67	—	—	—	794630-4
	6	13.00	Tin	A30404-ND	1.88	1.36	.85	—	—	—	794630-6
	8	16.00	Tin	A30405-ND	2.29	1.65	1.04	—	—	—	794630-8
	10	19.00	Tin	A30406-ND	2.68	1.93	1.21	—	—	—	1-794630-0
	12	22.00	Tin	A30407-ND	3.07	2.21	1.39	—	—	—	1-794630-2
	14	25.00	Tin	A30408-ND	3.48	2.50	1.57	—	—	—	1-794630-4
	16	28.00	Tin	A30409-ND	3.87	2.78	1.75	—	—	—	1-794630-6
	18	31.00	Tin	A30410-ND	4.36	3.13	1.97	—	—	—	1-794630-8
	20	34.00	Tin	A30411-ND	4.84	3.47	2.18	—	—	—	2-794630-0
	22	37.00	Tin	A30412-ND	5.33	3.82	2.40	—	—	—	2-794630-2
	24	40.00	Tin	A30413-ND	5.81	4.17	2.62	—	—	—	2-794630-4
Vertical Thru Hole Header — Dual Row											
11	2	7.00	Gold	A30414-ND	1.69	1.22	.77	—	—	—	794632-2
	4	10.00	Gold	A30415-ND	2.34	1.68	1.06	—	—	—	794632-4
	6	13.00	Gold	A30416-ND	2.97	2.13	1.34	—	—	—	794632-6
	8	16.00	Gold	A30417-ND	3.60	2.59	1.63	—	—	—	794632-8
	10	19.00	Gold	A30418-ND	4.23	3.04	1.91	—	—	—	1-794632-0
	12	22.00	Gold	A30419-ND	4.85	3.48	2.19	—	—	—	1-794632-2
	14	25.00	Gold	A30420-ND	5.49	3.94	2.47	—	—	—	1-794632-4
	16	28.00	Gold	A30421-ND	6.10	4.38	2.75	—	—	—	1-794632-6
	18	31.00	Gold	A30422-ND	6.86	4.92	3.09	—	—	—	1-794632-8
	20	34.00	Gold	A30423-ND	7.63	5.47	3.44	—	—	—	2-794632-0
	22	37.00	Gold	A30424-ND	8.39	6.02	3.78	—	—	—	2-794632-2
	24	40.00	Gold	A30425-ND	9.16	6.57	4.13	—	—	—	2-794632-4
Vertical Surface Mount — Dual Row, Mechanical Holddowns											
12	2	7.00	Tin	A30426CT-ND*	2.81	1.69	—	A30426TR-ND	250	341.45	794636-2
	4	10.00	Tin	A30427CT-ND*	3.75	2.25	—	A30427TR-ND	175	318.46	794636-4
	6	13.00	Tin	A30428CT-ND*	4.25	2.56	—	A30428TR-ND	175	361.36	794636-6
	8	16.00	Tin	A30429CT-ND*	4.88	2.93	—	A30429TR-ND	175	414.43	794636-8
	10	19.00	Tin	A30430CT-ND*	5.36	3.22	—	A30430TR-ND	175	455.94	1-794636-0
	12	22.00	Tin	A30431CT-ND*	5.86	3.52	—	A30431TR-ND	175	497.84	1-794636-2
	14	25.00	Tin	A30432CT-ND*	6.37	3.83	—	A30432TR-ND	175	541.54	1-794636-4
12	16	28.00	Tin	A30433CT-ND*	6.86	4.12	—	A30433TR-ND	175	583.04	1-794636-6
	18	31.00	Tin	A30434CT-ND*	7.62	4.58	—	A30434TR-ND	175	647.49	1-794636-8
	20	34.00	Tin	A30435CT-ND*	8.24	4.95	—	A30435TR-ND	175	700.17	2-794636-0
	22	37.00	Tin	A30436CT-ND*	8.84	5.31	—	A30436TR-ND	175	751.05	2-794636-2
	24	40.00	Tin	A30437CT-ND*	9.45	5.67	—	A30437TR-ND	175	802.92	2-794636-4
Vertical Surface Mount Header — Dual Row, with Surface Mount Holddowns											
12	2	7.00	Gold	A30438CT-ND*	3.48	2.09	—	A30438TR-ND	250	422.54	794638-2
	4	10.00	Gold	A30439CT-ND*	4.81	2.89	—	A30439TR-ND	175	408.84	794638-4
	6	13.00	Gold	A30440CT-ND*	5.61	3.37	—	A30440TR-ND	175	476.69	794638-6
	8	16.00	Gold	A30441CT-ND*	5.61	3.37	—	A30441TR-ND	175	476.69	794638-8
	10	19.00	Gold	A30442CT-ND*	7.31	4.39	—	A30442TR-ND	175	621.35	1-794638-0
	12	22.00	Gold	A30443CT-ND*	8.08	4.85	—	A30443TR-ND	175	686.80	1-794638-2
	14	25.00	Gold	A30444CT-ND*	8.88	5.33	—	A30444TR-ND	175	754.84	1-794638-4
	16	28.00	Gold	A30445CT-ND*	9.66	5.80	—	A30445TR-ND	175	820.68	1-794638-6
	18	31.00	Gold	A30446CT-ND*	10.77	6.46	—	A30446TR-ND	175	915.07	1-794638-8
	20	34.00	Gold	A30447CT-ND*	11.72	7.03	—	A30447TR-ND	175	995.88	2-794638-0
	22	37.00	Gold	A30448CT-ND*	12.67	7.61	—	A30448TR-ND	175	1077.28	2-794638-2
	24	40.00	Gold	A30449CT-ND*	13.58	8.15	—	A30449TR-ND	175	1154.10	2-794638-4
Right Angle Thru-hole Header — Dual Row											
13	2	7.00	Tin	A30450-ND	.82	.60	.38	—	—	—	794618-2
	4	10.00	Tin	A30451-ND	1.79	1.29	.81	—	—	—	794618-4
	6	13.00	Tin	A30452-ND	2.27	1.63	1.03	—	—	—	794618-6
	8	16.00	Tin	A30453-ND	2.77	1.99	1.25	—	—	—	794618-8
	10	19.00	Tin	A30454-ND	3.25	2.34	1.47	—	—	—	1-794618-0
	12	22.00	Tin	A30455-ND	3.73	2.67	1.68	—	—	—	1-794618-2
	14	25.00	Tin	A30456-ND	4.21	3.02	1.90	—	—	—	1-794618-4
	16	28.00	Tin	A30457-ND	4.70	3.37	2.12	—	—	—	1-794618-6
	18	31.00	Tin	A30458-ND	5.28	3.79	2.38	—	—	—	1-794618-8
	20	34.00	Tin	A30459-ND	5.87	4.21	2.65	—	—	—	2-794618-0
	22	37.00	Tin	A30460-ND	6.46	4.63	2.91	—	—	—	2-794618-2
	24	40.00	Tin	A30461-ND	7.04	5.05	3.17	—	—	—	2-794618-4
Right Angle Thru-hole Header — Dual Row											
13	2	7.00	Gold	A30462-ND	2.07	1.49	.93	—	—	—	794620-2
	4	10.00	Gold	A30463-ND	2.83	2.03	1.28	—	—	—	794620-4
	6	13.00	Gold	A30464-ND	3.58	2.57	1.61	—	—	—	794620-6
	8	16.00	Gold	A30465-ND	4.36	3.13	1.97	—	—	—	794620-8
	10	19.00	Gold	A30466-ND	5.11	3.67	2.30	—	—	—	1-794620-0
	12	22.00	Gold	A30467-ND	5.87	4.21	2.65	—	—	—	1-794620-2
	14	25.00	Gold	A30468-ND	6.62	4.75	2.98	—	—	—	1-794620-4
	16	28.00	Gold	A30469-ND	7.40	5.31	3.33	—	—	—	1-794620-6
	18	31.00	Gold	A30470-ND	8.32	5.97	3.75	—	—	—	1-794620-8
	20	34.00	Gold	A30471-ND	9.24	6.63	4.16	—	—	—	2-794620-0
	22	37.00	Gold	A30472-ND	10.17	7.29	4.58	—	—	—	2-794620-2
	24	40.00	Gold	A30473-ND	11.10	7.96	5.00	—	—	—	2-794620-4
Right Angle Surface Mount Header — Dual Row, with Surface Mount Holddowns											
14	2	7.00	Tin	A30474CT-ND*	3.12	1.88	—	A30474TR-ND	150	227.47	794627-2
	4	10.00	Tin	A30475CT-ND*	3.79	2.28	—	A30475TR-ND	150	276.38	794627-4
	6	13.00	Tin	A30476CT-ND*	4.39	2.64	—	A30476TR-ND	150	319.99	794627-6
	8	16.00	Tin	A30477CT-ND*	5.13	3.08	—	A30477TR-ND	150	373.70	794627-8
	10	19.00	Tin	A30478CT-ND*	5.74	3.45	—	A30478TR-ND	150	418.17	1-794627-0
	12	22.00	Tin	A30479CT-ND*	6.34	3.81	—	A30479TR-ND	150	461.95	1-794627-2
	14	25.00	Tin	A30480CT-ND*	6.94	4.17	—	A30480TR-ND	150	505.56	1-794627-4
	16	28.00	Tin	A30481CT-ND*	7.55	4.53	—	A30481TR-ND	150	550.02	1-794627-6
	18	31.00	Tin	A30482CT-ND*	8.59	5.16	—	A30482TR-ND	150	625.97	1-794627-8
	20	34.00	Tin	A30483CT-ND*	9.34	5.61	—	A30483TR-ND	150	680.35	2-794627-0
	22	37.00	Tin	A30484CT-ND*	10.07	6.05	—	A30484TR-ND	150	733.80	2-794627-2
	24	40.00	Tin	A30485CT-ND*	10.81	6.49	—	A30485TR-ND	150	787.25	2-794627-4
Right Angle Surface Mount Header — Dual Row, with Surface Mount Holddowns											
14	2	7.00	Gold	A30486CT-ND*	4.07	2.45	—	A30486TR-ND	150	296.57	794629-2
	4	10.00	Gold	A30487CT-ND*	5.08	3.05	—	A30487TR-ND	150	369.93	794629-4
	6	13.00	Gold	A30488CT-ND*	6.01	3.61	—	A30488TR-ND	150	438.00	794629-6
	8	16.00	Gold	A30489CT-ND*	7.13	4.29	—	A30489TR-ND	150	519.76	794629-8
	10	19.00	Gold	A30490CT-ND*	8.07	4.84	—	A30490TR-ND	150	587.66	1-794629-0
	12	22.00	Gold	A30491CT-ND*	9.03	5.42	—	A30491TR-ND	150	658.12	1-794629-2
	14	25.00	Gold	A30492CT-ND*	9.98	5.99	—	A30492TR-ND	150	726.87	1-794629-4
	16	28.00	Gold	A30493CT-ND*	10.94	6.57	—	A30493TR-ND	150	796.82	1-794629-6
	18	31.00	Gold	A30494CT-ND*	12.40	7.44	—	A30494TR-ND	150	903.38	1-794629-8
	20	34.00	Gold	A30495CT-ND*	13.56	8.14	—	A30495TR-ND	150	987.86	2-794629-0
	22	37.00	Gold	A30496CT-ND*	14.73	8.84	—	A30496TR-ND	150	1073.37	2-794629-2
	24	40.00	Gold	A30497CT-ND*	15.89	9.54	—	A30497TR-ND	150	1157.87	2-794629-4

Description	Digi-Key Part No.	Pricing 1	100	1,000	Digi-Key Part No.	Tape & Reel Size	Price	AMP Part No.
Receptacle Contacts, Crimp, Snap-in								
Tin, 20-24AWG	—	—	—	—	A30305TR-ND	15,000	39.87/M	794606-1
Tin, 20-24AWG	A30305-ND**	.29	8.29	64.82	—	—	—	794610-1
Gold, 20-24AWG	—	—	—	—	A30306TR-ND	15,000	69.02/M	794606-3
Gold, 20-24AWG	A30306-ND**	.15	7.23	56.53	—	—	—	794610-3
Tin, 26-30AWG	—	—	—	—	A30309TR-ND	15,000	39.87/M	794607-1
Tin, 26-30AWG	A30309-ND	.29	8.29	64.82	—	—	—	794611-1
Gold, 26-30AWG	—	—	—	—	A30310TR-ND	15,000	69.02/M	794607-3
Gold, 26-30AWG	A30310-ND	.30	14.44	113.00	—	—	—	794611-3
Plug Contacts, Crimp, Snap								
Tin, 20-24AWG	—	—	—	—	A30307TR-ND	10,000	39.87/M	1-794608-0
Tin, 20-24AWG	A30307-ND**	.29	8.29	64.82	—	—	—	1-794612-0
Gold, 20-24AWG	—	—	—	—	A30308TR-ND	10,000	69.02/M	794608-3
Gold, 20-24AWG	A30308-ND**	.30	14.44	113.00	—	—	—	794612-3
Tin, 26-30AWG	—	—	—	—	A30311TR-ND	10,000	39.87/M	794609-1
Tin, 26-30AWG	A30311-ND**	.29	8.29	64.82	—	—	—	794613-1
Gold, 26-30AWG	—	—	—	—	A30312TR-ND	10,000	69.02/M	794609-3
Gold, 26-30AWG	A30312-ND**	.30	14.44	113.00	—	—	—	794613-3
Certi-Crimp Tool, 20-24AWG	A30498-ND		457.32/1		—	—	—	91501-1
Certi-Crimp II Tool, 26-30AWG	A30313-ND		457.32/1		—	—	—	91502-1

* Cut Tape   ** Loose Piece

Mini-Universal MATE-N-LOK® and Sealed Mini-Universal MATE-N-LOK® Connectors

Mini-Universal MATE-N-LOK®: Features: • Compact • Contacts are fully protected in the housings. Both pins and sockets can be used on the power supply wiring • Fully polarized to provide proper plug-to-cap mating incorporating a positive locking mechanism to prevent accidental disengagement of mated connectors. Also facilitates panel mounting • Contacts accept wire size range 30-16AWG • .163" (4.14mm) centerline spacing • Recognized under the component program of UL, Inc File No. E28476 • Certified by Canadian Standards Association File No. LR 38721 • Passed test by VDE under their Registration Number 3476/Continuous Surveillance. **Performance Characteristics:** • Dielectric Withstanding Voltage: 1.5KVAC between adjacent circuits • Insulation Resistance: 1000MΩ minimum between adjacent circuits • Voltage Rating: 600VAC or DC • Contact Retention: 8 pounds minimum per contact • Durability: 20 cycles, mating and unmating

Sealed Mini-Universal MATE-N-LOK®: Features: • Compact • Wire-to-Wire and Wire-to-Board connector system that provides the advantages of using a proven product technology in a splash-proof environment. • Mates with all standard Mini-Universal MATE-N-LOCK connector housings • Uses existing Mini-Universal MATE-N-LOK application toolings and contacts • Product has been tested to IP Level 5/7 for .040" - .083" [1.02 - 2.11 mm] insulation diameter wire **Performance Characteristics:** • Dielectric Withstanding Voltage: 1.5K VAC • Insulation Resistance: 1000MΩ maximum between adjacent circuits • Voltage Rating: 600VAC or DC • Current: 9A maximum • Contact Retention: 8 pounds minimum per contact • Durability: 20 cycles, mating and unmating

Fig. 1

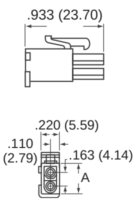

PLUG

Fig. 1A

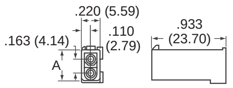

CAP (Free Hanging)

Fig. 1B

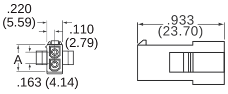

CAP (Panel Mount)

Fig. 2

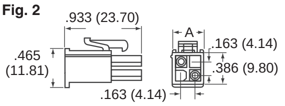

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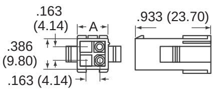

CAP

Fig. 3

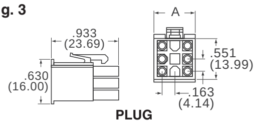

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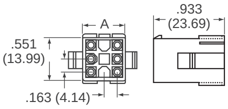

CAP

Fig. 4

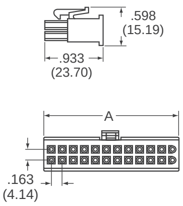

PLUG

Mini-Universal MATE-N-LOK® Connectors

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
.163 (4.14mm) Centerline Housing, UL94V-0 White Nylon							
1	2 3	Plug In-Line	.386 (9.80) .551 (14.00)	A25587-ND A25588-ND	.50 .55	.32 .36	172165-1 172166-1
1A	2 3	Cap In-Line	.386 (9.80) .551 (14.00)	A25652-ND A25653-ND	.51 .57	.33 .37	172233-1 172234-1
1B	2 3	Cap In-Line	.386 (9.80) .551 (14.00)	A25697-ND A25698-ND	.45 .50	.29 .32	172157-1 172158-1
2	4	Plug Dual Row Cap Dual Row	.386 (9.80)	A25571-ND A25572-ND	.50 .53	.33 .34	172167-1 172159-1
	6	Plug Dual Row Cap Dual Row	.551 (14.00)	A25573-ND A25574-ND	.68 .70	.44 .45	172168-1 172160-1
3	9	Plug Matrix Cap Matrix	.551 (14.00)	A25702-ND A25699-ND	.74 .78	.48 .50	172169-1 172161-1
	12	Plug Matrix Cap Matrix	.716 (18.19)	A25703-ND A25700-ND	.85 .82	.55 .53	172170-1 172162-1
	15	Plug Matrix Cap Matrix	.882 (22.40)	A25704-ND A25701-ND	1.09 1.04	.70 .67	172171-1 172163-1
4	8 10 12 14 16	Plug Dual Row	.714 (18.14) .877 (22.28) 1.040 (26.42) 1.203 (30.56) 1.366 (34.70)	A25575-ND A25576-ND A25577-ND A25578-ND A25579-ND	.60 .67 .71 1.60 1.12	.39 .43 .46 1.03 .72	770579-1 770580-1 770581-1 770582-1 770583-1
	18 20 22 24	Plug Dual Row	1.529 (38.84) 1.692 (42.98) 1.855 (47.12) 2.018 (51.26)	A25580-ND A25581-ND A25582-ND A25583-ND	1.26 1.40 1.53 1.67	.81 .90 .99 1.08	770584-1 770585-1 770586-1 770587-1

Sealed Mini-Universal MATE-N-LOK® Connectors

Dimensions may vary slightly - see the Digi-Key® Website for manufacturer's drawings.

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
.163 (4.14mm) Centerline Housing, UL94V-0 White Nylon							
1	2	Plug In-Line	.386 (9.80)	A30709-ND	.65	.42	794894-1
1B	2	Cap In-Line	.386 (9.80)	A30714-ND	.75	.49	794896-1
2	4 4	Plug Dual Row Cap Dual Row	.486 (12.34) .386 (9.80)	A30710-ND A30715-ND	.66 .79	.43 .51	794805-1 794939-1
	6 6	Plug Dual Row Cap Dual Row	.651 (16.54) .386 (9.80)	A30711-ND A30716-ND	.94 1.04	.61 .67	794895-1 794940-1
	8 8	Plug Dual Row Cap Dual Row	.814 (20.68) .714 (8.14)	A30712-ND A30717-ND	1.03 1.14	.66 .74	794821-1 794941-1
	10 10	Plug Dual Row Cap Dual Row	.977 (24.82) .877 (22.28)	A30713-ND A30718-ND	1.12 1.26	.72 .81	794781-1 794942-1
—	2 4 6 8 10	Interface Seal Interface Seal Interface Seal Interface Seal Interface Seal	— — — — —	A30719-ND A30720-ND A30721-ND A30722-ND A30723-ND	.54 .50 .60 .63 .67	.36 .33 .40 .42 .44	794772-2 794772-4 794772-6 794772-8 1-794772-0
—	—	Cavity Plug Seal	—	A30724-ND	.31	.21	794995-1
—	—	Cavity Wire Seal	—	A30725-ND	.24	.16	794758-1

Mini-Universal MATE-N-LOK® Contacts

Specifications: • Material: Brass • Stock Thickness: .008" (.20mm)
Contact Plating: A: Brass pre-tin plated B: Duplex Finish - Plated with .000030" (.000762mm) min. gold in mating area and .000100" (.00254mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Pin Connector

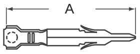

Socket Connector

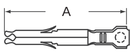

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing 1	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	Cut Strip Pricing 1000	Digi-Key Part No.	Strip Tape & Reel Size	Strip Tape & Reel Pricing	AMP Part No.
Pin Contacts — Diameter .039" (0.99mm)														
30-26	.035 - .050 (.889-1.27)	A B	.671 (17.04)	A25667-ND A25671-ND	.29 .52	9.87 33.22	794059-1 794059-3	A25667CT-ND A25671CT-ND	— —	60.10 301.53	A25667TR-ND A25671TR-ND	10,000 10,000	32.46/M 167.72/M	770835-1 770835-3
26-22	.047 - .069 (1.19-1.75)	A B	.671 (17.04)	A25675-ND A25679-ND	.28 .52	9.58 33.22	770985-1 770985-3	A25675CT-ND A25679CT-ND	— —	60.10 301.53	A25675TR-ND —	7,000 —	36.06/M —	770901-1 770901-3
22-18 or 22(2)	.059 - .110 or .133 max. (1.50-2.79 or 3.38)	A B	.671 (17.04)	A25683-ND A25687-ND	.29 .52	9.87 33.22	770987-1 770987-3	A25683CT-ND —	33.06 —	60.10 —	A25683TR-ND —	4,500 —	36.06/M —	770903-1 770903-3
20-16 or 20 (2)	.079 - .126 or .094(2) (2.01 - 3.20 or 2.79)	A	.689 (17.50)	A25691-ND	.29	6.13	171638-1	A25691CT-ND	—	55.08	A25691TR-ND	4,000	33.05/M	171636-1
Socket Contacts														
30-26	.035 - .050 (8.89-1.27)	A B	.659 (16.74)	A25668-ND A25672-ND	.18 .31	5.99 20.14	794058-1 794058-3	A25668CT-ND A25672CT-ND	— —	60.10 326.13	A25668TR-ND A25672TR-ND	10,000 10,000	32.46/M 176.11/M	770834-1 770834-3
26-22	.047 - .069 (1.19-1.75)	A B	.659 (16.74)	A25676-ND A25680-ND	.29 .52	9.87 33.22	770986-1 770986-3	A25676CT-ND A25680CT-ND	— —	60.10 313.90	A25676TR-ND A25680TR-ND	7,000 7,000	36.06/M 194.00/M	770902-1 770902-3
22-18 or 22(2)	.059 - .110 or .133 max. (1.50-2.37 or 3.38)	A B	.659 (16.74)	A25684-ND A25688-ND	.18 .52	5.99 33.22	770988-1 770988-3	A25684CT-ND A25688CT-ND	33.06 157.51	60.10 286.38	A25684TR-ND —	4,500 —	36.06/M —	770904-1 770904-3
20-16 or 20 (2)	.079 - .126 (2.01 - 3.20 or 2.79)	A	.689 (17.50)	A25692-ND	.24	5.04	171639-1	A25692CT-ND	—	55.48	A25692TR-ND	4,000	33.29/M	171637-1

Description	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.	Description	Digi-Key Part No.	Price Each	AMP Part No.
Keying Plugs and Tools for Mini-Universal MATE-N-LOK®								
Keying Plug 94V-0	A25693-ND	.30	12.64	174670-1	—	—	—	—
Contact Extraction Tool	A25695-ND	19.28	—	189727-1	—	—	—	—
Contact Insertion Tool	A1444-ND	17.06	—	455830-1	—	—	—	—
PRO-CRIMPER III Hand Tool, w/Die, 30-26AWG	A9819-ND	186.35	—	90870-1	Die Set for PRO-CRIMPER III 30-26AWG	A9956-ND	140.90	90870-2
PRO-CRIMPER III Hand Tool, w/Die, 26-22AWG	A25584-ND	145.50	—	90758-1	Die Set for PRO-CRIMPER III 26-22AWG	A30039-ND	111.00	90758-2
PRO-CRIMPER III Hand Tool, w/Die, 22-18 or 22(2)AWG	A25585-ND	145.50	—	90759-1	Die Set for PRO-CRIMPER III 22-18AWG	A30040-ND	111.00	90759-2
PRO-CRIMPER III Hand Tool, w/Die, 20-16 or 20(2)AWG	A25586-ND	218.16	—	90760-1	—	—	—	—

Mini-Universal MATE-N-LOK2® Connectors

Mini-Universal MATE-N-LOK2®: Features: • Pins and sockets can be intermixed in the same housing although they cannot be intermixed with standard Mini Universal Mate-N-Lok® housings • Contacts accept wire size range 30-16AWG • .163" (4.14mm) centerline spacing • Recognized under the component program of UL Inc File No. E28476

Performance Characteristics: • Dielectric Withstanding Voltage: 1500V AC or DC between adjacent circuits at sea level • Insulation Resistance: 100MΩ minimum between adjacent circuits • Voltage Rating: 600V AC or DC • Contact Retention: 20 pounds minimum per contact • Durability: 25 cycles, mating and unmating • Current Rating: Up to 10.5 amps per circuit: 2 position

Fig. 1

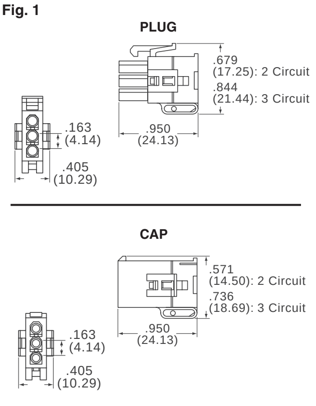

Fig. 2

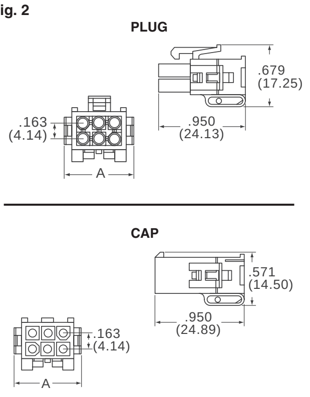

Fig. 3

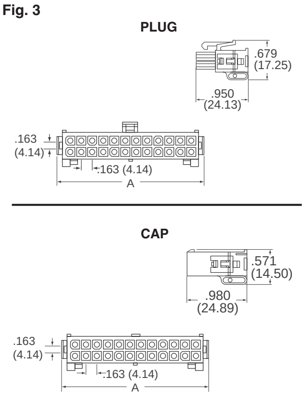

Fig. 4

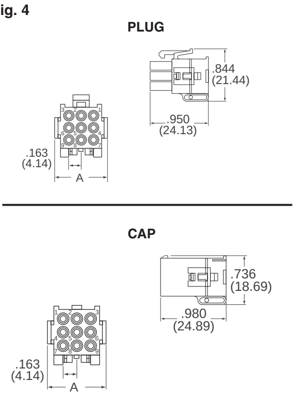

Mini-Universal MATE-N-LOK2® Connectors

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
.163 (4.14mm) Centerline Housing - Free Hanging, UL94V-0 White Nylon							
1	2	Plug, In-Line	—	A25654-ND	.63	.41	794184-1
		Cap, In-Line		A25655-ND	.69	.45	794185-1
	3	Plug, In-Line	—	A25656-ND	.66	.43	794186-1
		Cap, In-Line		A25657-ND	.77	.50	794187-1
2	4	Plug, Dual Row	.571 (14.50)	A25658-ND	.75	.48	794188-1
		Cap, Dual Row		A25659-ND	.76	.49	794189-1
	6	Plug, Dual Row	.736 (18.70)	A25660-ND	.67	.44	794190-1
		Cap, Dual Row		A25661-ND	1.25	.80	794191-1
3	8	Plug, Dual Row	.899 (22.24)	A25662-ND	1.16	.75	794192-1
		Cap, Dual Row		A25705-ND	1.14	.74	794193-1
	10	Plug, Dual Row	1.062 (26.97)	A25663-ND	1.21	.78	794196-1
		Cap, Dual Row		A25708-ND	1.58	1.02	794197-1
	12	Plug, Dual Row	1.225 (31.12)	A25711-ND	1.04	.67	794198-1
		Cap, Dual Row		A25712-ND	1.20	.77	794199-1
	14	Plug, Dual Row	1.388 (35.26)	A25664-ND	1.21	.78	794202-1
		Cap, Dual Row		A25713-ND	1.19	.77	794203-1

Fig.	No. of Circuits	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
3	16	Plug, Dual Row	1.551 (39.40)	A25716-ND	1.30	.84	794206-1
		Cap, Dual Row		A25717-ND	1.26	.81	794207-1
	18	Plug, Dual Row	1.714 (43.54)	A25718-ND	1.46	.94	794208-1
		Cap, Dual Row		A25719-ND	1.69	1.09	794209-1
	20	Plug, Dual Row	1.877 (47.68)	A25720-ND	1.63	1.05	794210-1
		Cap, Dual Row		A25721-ND	1.88	1.21	794211-1
	22	Plug, Dual Row	2.040 (51.82)	A25722-ND	1.79	1.15	794212-1
		Cap, Dual Row		A25723-ND	2.07	1.33	794213-1
	24	Plug, Dual Row	2.203 (55.96)	A25724-ND	1.63	1.05	794214-1
		Cap, Dual Row		A25725-ND	2.26	1.45	794215-1
4	9	Plug, Matrix	.736 (18.69)	A25706-ND	1.32	.85	794194-1
		Cap, Matrix		A25707-ND	1.40	.90	794195-1
	12	Plug, Matrix	.901 (22.89)	A25709-ND	1.21	.78	794200-1
		Cap, Matrix		A25710-ND	1.46	.94	794201-1
	15	Plug, Matrix	1.067 (27.10)	A25714-ND	3.20	2.06	794204-1
		Cap, Matrix		A25715-ND	1.49	.96	794205-1

Mini-Universal MATE-N-LOK2® Contacts

Specifications: • Material: Brass • Stock Thickness: .010" (.25mm)

Contact Plating: A: Brass pre-tin plated B: Duplex Finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000100" (.00254mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Pin Connector

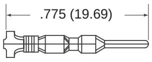

Socket Connector

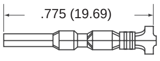

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	100	AMP Part No.
Pin Contacts — Diameter .039" (0.99mm)						
30-26	.035-.050 (8.89-1.27)	A	A28800-ND	.29	9.87	794224-1
		B	A28801-ND	.52	33.22	794224-3
26-22	.047-.069 (1.19-1.75)	A	A28802-ND	.29	9.87	794226-1
		B	A28803-ND	.52	33.22	794226-3
22-18	.059-.110 (1.50-2.79)	A	A28804-ND	.18	5.99	794228-1
		B	A32446-ND◊	.52	33.22	1-794228-0
20-16	.079-.126 (2.01-3.20)	A	A28806-ND	.30	12.84	794230-1
		B	A28807-ND	.52	33.22	794230-3

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	100	AMP Part No.
Socket Contacts						
30-26	.035-.050 (8.89-1.27)	A	A28808-ND	.29	9.87	794225-1
		B	A28809-ND	.52	33.22	794225-3
26-22	.047-.069 (1.19-1.75)	A	A28810-ND	.29	9.87	794227-1
		B	A28811-ND	.52	33.22	794227-3
22-18	.059-.110 (1.50-2.79)	A	A28812-ND	.29	9.87	794229-1
		B	A28813-ND	.52	33.22	794229-3
20-16	.079-.126 (2.01-3.20)	A	A28814-ND	.30	12.84	794231-1
		B	A28815-ND	.31	20.14	794231-3
		B	A32447-ND◊	.52	33.22	1-794231-0

◊ RoHS Compliant

Tools for Mini-Universal MATE-N-LOK2®

Description	Digi-Key Part No.	Price Each	AMP Part No.
Pro-Crimper III with Die Set, 30-26 AWG	A9819-ND	186.35	90870-1
Pro-Crimper III with Die Set, 26-22 AWG	A25584-ND	145.50	90758-1
Pro-Crimper III with Die Set, 22-18 AWG	A25585-ND	145.50	90759-1
Pro-Crimper III with Die Set, 20-16 AWG	A30726-ND	566.61	58707-1
Certi-Crimp Hand Tool, 22-18 AWG	A9916-ND	468.14	91522-1
Straight Action Hand Tool, 26-22 AWG	A32490-ND	491.31	91529-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Straight Action Hand Tool, 20-16 AWG	A32491-ND	764.78	91594-1
Die Set, 30-24 AWG (use with A9996-ND)	A9956-ND	140.90	90870-2
Die Set, 26-22 AWG (use with A9996-ND)	A30039-ND	111.00	90758-2
Die Set, 22-18 AWG (use with A9996-ND)	A30040-ND	111.00	90759-2
Die Set, 20-16 AWG (use with A9996-ND)	A30727-ND	499.95	58707-2
Pro-Crimper III Hand Tool (without Die Set)	A9996-ND	66.00	354940-1

Mini-Universal MATE-N-LOK® and MATE-N-LOK2® Headers

Specifications:
• Contact Material: Brass • Solder Tail Diameter: .039" (1.00mm) • Housing: UL94V-0 White Nylon

Contact Plating: A: Tin-Lead Finish- Plated with .000150" (.00381mm) minimum tin-lead over .000050" (.00127mm) minimum nickel underplate on entire contact. B: Duplex Finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000100" (.00254mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Fig. 1

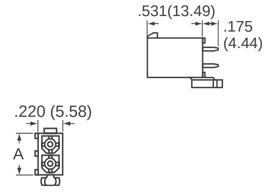

Fig. 2

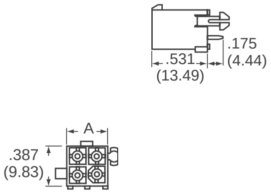

Fig. 3

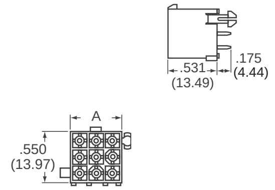

Fig. 4

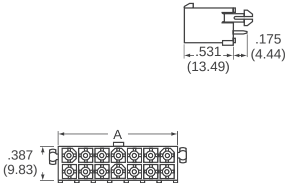

Fig. 5

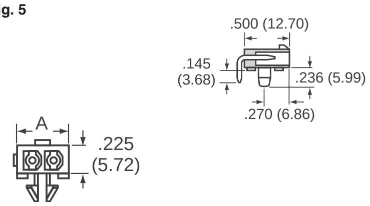

Fig. 6

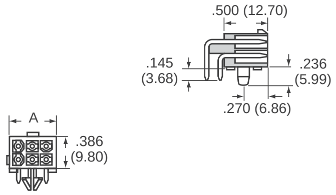

Fig. 7

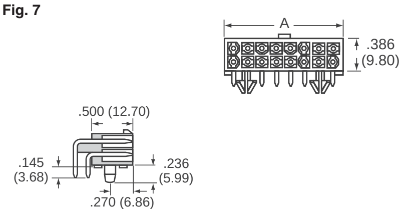

Fig.	No. of Circuits	Type	Contact Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
.163 (4.14) Centerline Vertical PC Board Pin Headers, w/Drain Holes (unless noted)								
1	2	In-Line	A	.387 (9.83)	A32448-ND◊	.71	.46	1-770166-0
			A		A25590-ND†	.77	.56	770872-1
			A		A32449-ND†◊	.77	.50	1-770872-0
			B		A32450-ND◊	1.19	.76	1-770166-1
	3	In-Line	A	.550 (13.97)	A32451-ND◊	.77	.49	1-770170-0
			A		A32452-ND†◊	.95	.61	1-770873-0
			B		A25595-ND	1.82	1.31	770170-2
			B		A25596-ND†	1.83	1.32	770873-2
2	4	Dual Row	A	.387 (9.83)	A32453-ND◊	.88	.56	1-770174-0
			A		A32454-ND†◊	1.18	.75	1-770874-0
			B		A32455-ND◊	1.48	.94	1-770174-1
			B		A25601-ND†	2.23	1.60	770874-2
	6	Dual Row	A	.550 (13.97)	A32456-ND◊	.90	.58	1-770178-0
			B		A32457-ND◊	2.10	1.34	1-770178-1
	8	Dual Row	B	.713 (18.11)	A32458-ND◊	1.52	.97	1-794065-0
			B		A32459-ND◊	2.73	1.73	1-794065-1
	10	Dual Row	A	.877 (22.28)	A32460-ND◊	1.71	1.09	1-770743-0
			B		A32461-ND◊	3.32	2.11	1-770743-1
	12	Dual Row	A	1.039 (26.39)	A25610-ND	1.64	1.18	794066-1
			A		A32462-ND†◊	2.01	1.28	1-770621-0
			B		A25612-ND	3.94	2.83	794066-2
3	9	Matrix	A	.551 (14.00)	A32463-ND◊	1.57	1.00	1-770182-0
			B		A32464-ND◊	4.59	2.91	1-770182-1
	12	Matrix	A	.713 (18.11)	A32465-ND◊	1.93	1.23	1-770186-0
			B		A32466-ND◊	5.94	3.77	1-770186-1
	15	Matrix	A	.877 (22.28)	A32467-ND◊	2.32	1.48	1-770190-0
			B		A25618-ND	7.36	5.28	770190-2
4	14	Dual Row	A	1.202 (30.53)	A32468-ND◊	1.66	1.06	1-794067-0
			B		A25616-ND	4.60	3.30	794067-2
	16	Dual Row	A	1.365 (34.67)	A32469-ND◊	1.85	1.18	1-794068-0
			B		A25620-ND	5.09	3.65	794068-2
	18	Dual Row	A	1.528 (38.81)	A25621-ND	2.08	1.49	794069-1
			B		A25622-ND	5.78	4.15	794069-2
	20	Dual Row	A	1.691 (42.95)	A25623-ND	2.31	1.66	794070-1

Fig.	No. of Circuits	Type	Contact Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
4	20	Dual Row	B	1.691 (42.95)	A25624-ND	6.44	4.62	794070-2
	22	Dual Row	A	1.854 (47.09)	A25625-ND	2.56	1.84	794071-1
			B		A25626-ND	7.85	5.63	794071-2
	24	Dual Row	A	2.017 (51.23)	A32470-ND◊	2.82	1.79	1-794072-0
			B		A25628-ND	8.67	6.22	794072-2
.163 (4.14) Centerline PC Board Pin Headers, Right Angle with Board Lock								
5	2	In-Line	A	.388 (9.86)	A32471-ND◊	.92	.59	1-770966-0
			B		A25630-ND	2.33	1.68	770966-2
			B		A32472-ND◊	1.93	1.23	1-770966-1
	3	In-Line	A	.551 (14.00)	A25631-ND	1.85	1.33	770967-1
			A		A32473-ND◊	1.34	.86	1-770967-0
			B		A25632-ND	3.18	2.29	770967-2
6	4	Dual Row	A	.388 (9.86)	A32474-ND◊	.97	.62	1-770968-0
			B		A25634-ND	3.27	2.35	770968-2
	6	Dual Row	A	.551 (14.00)	A32475-ND◊	1.36	.87	1-770969-0
			B		A32476-ND◊	4.41	2.80	1-770969-1
	8	Dual Row	A	.714 (18.14)	A32477-ND◊	1.90	1.21	1-770970-0
			B		A32478-ND◊	5.81	3.69	1-770970-1
	10	Dual Row	A	.877 (22.28)	A32479-ND◊	2.21	1.40	1-770971-0
			B		A25640-ND	7.22	5.18	770971-2
	12	Dual Row	A	1.040 (26.42)	A32480-ND◊	2.53	1.60	1-770972-0
			B		A32481-ND◊	7.41	4.70	1-770972-1
7	14	Dual Row	A	1.203 (30.56)	A32482-ND◊	3.74	2.38	1-770973-0
			B		A25644-ND	12.13	8.70	770973-2
			B		A32483-ND◊	10.02	6.35	1-770973-1
	16	Dual Row	A	1.366 (34.70)	A32484-ND◊	2.49	1.58	1-770974-0
			B		A25646-ND	11.43	8.20	770974-2
	18	Dual Row	A	1.529 (38.84)	A32485-ND◊	4.20	2.66	1-794105-0
	20	Dual Row	A	1.692 (42.98)	A25648-ND	3.95	2.83	794106-1
			B		A25649-ND	14.62	10.48	794106-2
	22	Dual Row	A	1.855 (47.12)	A25696-ND	5.13	3.68	794107-1
	24	Dual Row	A	2.018 (51.26)	A32486-ND◊	5.60	3.55	1-794108-0
			B		A25651-ND	17.54	12.58	794108-2

† These part numbers are without drain holes. ◊ ***RoHS Compliant***

Universal MATE-N-LOK® Connectors - Soft Shell

Dim. in inch (mm)

Fig. 1

- Pins and sockets can be intermixed in the same housing • Positive polarization • Pin or socket contact can be hot • Positive locking housings • Removable, crimp snap-in contacts • Low contact mating force • Dual locking lances provide optimum contact stability • Panel-mount or free-hanging • Harness to PC board capability using pin or socket header assemblies **Features:** • Rated to 600V • Insulation capacity to .200" (5.08 mm) diameter
- Contacts are on .250" (6.35 mm) centerline spacing

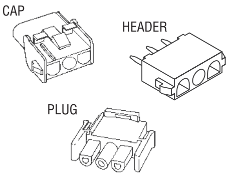

Fig. 2

- Circular design allows the connector to pass through 7/8 inch knock-out holes in electrical fixtures and boxes **Features:** • Voltage: 600 VAC or DC • Current: 20A maximum per UL-1977

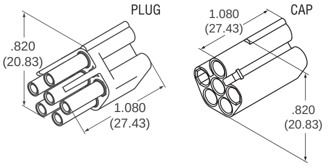

Fig. 3

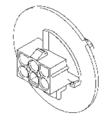

- Special flanged universal MATE-N-LOK cap housing **Features:** • Voltage: 600V • Current: 15.5A maximum

Fig. 4

- Mating Connectors: Housings and headers having the same number of circuits. • Pins and sockets can be intermixed in the same housing • Test probes have 5A max. current rating • 1,000,000 cycles • Test connector housings are of the same configuration as standard housings

Fig. 4A — 2-5 Circuits

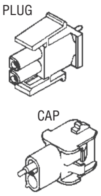

Fig. 4B — 6 Circuits

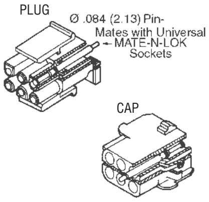

Fig. 5

(Enclosed)

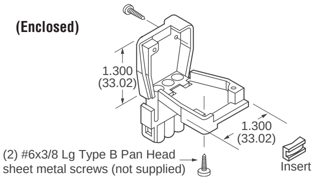
1.300
(33.02)
1.300
(33.02)
(2) #6x3/8 Lg Type B Pan Head
sheet metal screws (not supplied)
Insert

Fig. 6

(Open)

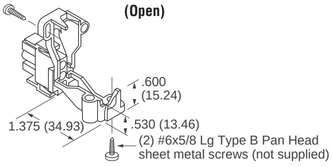
.600
(15.24)
1.375 (34.93)
.530 (13.46)
(2) #6x5/8 Lg Type B Pan Head
sheet metal screws (not supplied)

Fig. 7

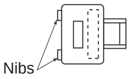

Fig. 8

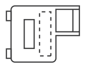

Connectors

Fig.	No. of Circuits	Description	Digi-Key Part No.	Pricing		AMP Part No.
				1	100	
Universal MATE-N-LOK UL94V-0 Connectors Nylon, White Color (Contacts Sold Separately)						
1	1	Plug In-Line	A14276-ND	.37	23.61	350865-1
		Cap In-Line	A14277-ND	.37	23.61	350866-1
	2	Plug In-Line	A14278-ND	.36	23.02	350777-1
		Cap In-Line	A14279-ND	.51	32.56	350778-1
	3	Plug In-Line	A14280-ND	.43	27.56	350766-1
		Cap In-Line	A14281-ND	.52	33.21	350767-1
	4	Plug In-Line	A14282-ND	.45	28.75	350779-1
		Cap In-Line	A14283-ND	.57	36.40	350780-1
	5	Plug In-Line	A14284-ND	.48	30.71	350809-1
		Cap In-Line	A14285-ND	.58	37.11	350810-1
	6	Plug In-Line	A14286-ND	1.02	65.26	640581-1
		Cap In-Line	A14287-ND*	2.64	169.63	926307-3
		Plug Matrix	A14288-ND	.64	41.24	350715-1
		Cap Matrix	A14289-ND	.57	36.34	350781-1
	8	Plug In-Line	A14290-ND	.87	55.77	640582-1
		Cap In-Line	A14291-ND*	3.19	204.67	926308-3
	9	Plug Matrix	A14292-ND	.56	35.77	350720-1
		Cap Matrix	A14293-ND	.69	44.14	350782-1
	12	Plug Matrix	A14294-ND	.71	45.67	350735-1
		Cap Matrix	A14295-ND	.84	54.07	350783-1
	15	Plug Matrix	A14296-ND	.91	58.68	350736-1
		Cap Matrix	A14297-ND	1.40	89.87	350784-1
Universal MATE-N-LOK UL94V-2 Connectors Nylon, Natural Color (Contacts Sold Separately)						
1	1	Plug In-Line	A14270-ND	.27	9.31	1-350867-0
		Cap In-Line	A14271-ND	.27	9.81	770421-1
	2	Plug In-Line	A1448-ND	.29	16.64	1-480698-0
		Cap In-Line	A1449-ND	.29	15.19	1-480699-0
	3	Plug In-Line	A1450-ND	.28	15.89	1-480700-0
		Cap In-Line	A1451-ND	.29	16.65	1-480701-0
	4	Plug In-Line	A1452-ND	.30	17.08	1-480702-0
		Cap In-Line	A1453-ND	.30	16.90	1-480703-0
	5	Plug In-Line	A1454-ND	.33	21.22	1-480763-0
		Cap In-Line	A1455-ND	.37	23.95	1-480764-0
	6	Plug Matrix	A1456-ND	.32	20.68	1-480704-0
		Cap Matrix	A1457-ND	.31	19.72	1-480705-0
		Plug In-Line	A14272-ND	.66	42.11	640585-1
		Cap In-Line	A14273-ND	1.10	70.52	926307-1
	8	Plug In-Line	A14274-ND	.99	63.33	640586-1
		Cap In-Line	A14275-ND	1.68	107.53	926308-1
	9	Plug Matrix	A1458-ND	.37	23.48	1-480706-0
		Cap Matrix	A1459-ND	.33	21.13	1-480707-0
	12	Plug Matrix	A1460-ND	.42	27.15	1-480708-0
		Cap Matrix	A1461-ND	.37	23.94	1-480709-0
	15	Plug Matrix	A1462-ND†	.61	39.40	1-480710-0
		Cap Matrix	A1463-ND	.55	35.16	1-480711-0
2	6	Plug Circular	A30576-ND	.73	52.26	794911-1
		Cap Circular	A30577-ND	.73	52.26	794912-1
Universal MATE-N-LOK UL94V-0 Flanged Cap Housings Nylon, White Color (Contacts Sold Separately)						
3	6	Matrix	A30555-ND	1.45	117.58	794760-1
	9	Matrix	A30556-ND	1.75	141.90	794761-1
	12	Matrix	A30557-ND	2.12	171.24	794762-1
Universal MATE-N-LOK UL94V-2 Flanged Cap Housings Nylon, Natural Color (Contacts Sold Separately)						
3	6	Matrix	A30558-ND	1.26	102.25	794714-1
	9	Matrix	A30559-ND	1.52	123.39	794715-1
	12	Matrix	A30560-ND	1.84	148.91	794716-1
Keying Plug, UL94V-0			A14305-ND	.24	19.64	1-640415-0
Keying Plug, UL94V-2			A14304-ND	.23	18.86	1-640415-1

† Black * Brick Red

Fig.	No. of Circuits	Description	Digi-Key Part No.	Price Each		AMP Part No.
				1	100	
Test Connectors (with spring loaded contacts)						
4A	2	Plug In-Line	A25328-ND	39.01	25.03	350848-2
		Cap In-Line	A25331-ND	41.05	26.34	350849-2
	3	Plug In-Line	A25731-ND	56.29	36.11	350848-3
		Cap In-Line	A25732-ND	53.48	34.31	350849-3
	4	Plug In-Line	A25330-ND	68.08	43.68	350848-4
		Cap In-Line	A25329-ND	68.05	43.66	350849-4
	5	Plug In-Line	A25733-ND	87.13	55.90	350848-5
		Cap In-Line	A25734-ND	87.29	56.00	350849-5
4B	6	Plug Matrix	A25735-ND	105.47	67.66	350848-6
		Cap Matrix	A25736-ND	105.58	67.73	350849-6

Strain Reliefs (Two strain reliefs required per housing)

Fig.	No. of Circuits	Description	Insert Supplied	Wire Bundle Size (Inch)	Digi-Key Part No.	Price Each		AMP Part No.
						1	100	
Enclosed Plug Housing UL94V-0 Strain Reliefs — Nylon, White Color								
5	2	In-Line	Yes	.040-.190	A14338-ND	1.11	.90	640713-1
			No	.200-.350	A25162-ND	1.11	.90	640713-2
	3	In-Line	Yes	.040-.190	A14339-ND	1.03	.84	640714-1
			No	.200-.350	A25163-ND	.90	.73	641945-1
	4	In-Line	Yes	.040-.190	A14340-ND	1.14	.92	641776-1
			No	.200-.350	A25164-ND	.97	.79	641776-2
	5	In-Line	Yes	.040-.190	A14341-ND	1.15	.94	643030-1
			No	.200-.350	A25165-ND	1.15	.94	643030-4
	6	In-Line	Yes	.040-.190	A14342-ND†	1.16	.95	643313-1
			No	.200-.350	A25166-ND†	1.16	.95	643313-2
	8	In-Line	Yes	.040-.190	A14343-ND†	1.19	.97	643314-1
	6	Matrix	Yes	.120-.650	A14344-ND	1.07	.87	640715-1
	9			.120-.650	A14345-ND	1.11	.90	640716-1
	12			.150-.750	A14346-ND	1.24	1.01	640717-1
	15			.200-.850	A14347-ND	1.23	1.00	640718-1
Enclosed Plug Housing UL94V-2 Strain Reliefs — Nylon, Natural Color								
5	2	In-Line	Yes	.040-.190	A14348-ND	1.00	.80	1-640719-0
			No	.200-.350	A25167-ND	1.27	1.03	1-640719-1
	3	In-Line	Yes	.040-.190	A14349-ND	1.01	.82	1-640720-0
			No	.200-.350	A14350-ND	1.00	.81	641763-1
	4	In-Line	Yes	.040-.190	A25168-ND	1.02	.83	641775-1
			No	.200-.350	A14351-ND	1.07	.87	641775-2
	5	In-Line	Yes	.040-.190	A25169-ND	1.04	.84	643030-3
			No	.200-.350	A14352-ND	1.04	.84	643030-2
	6	In-Line	Yes	.040-.190	A25324-ND†	1.05	.85	643585-1
			No	.200-.350	A25325-ND†	1.05	.85	643585-2
	6	Matrix	Yes	.120-.650	A14353-ND	1.05	.83	1-640721-0
	9			.120-.650	A14354-ND	1.08	.88	1-640722-0
	12			.150-.750	A14355-ND	1.12	.91	1-640723-0
	15			.200-.850	A14356-ND	1.16	.94	1-640724-0

† Strain relief for 6 and 8 position in-line fits plug housings only.

Fig.	Description	Digi-Key Part No.	Price Each		AMP Part No.
			1	100	
Open Plug Housing UL94V-0 Strain Reliefs — Nylon, White Color					
6	2, 3, 4, 5, 6 and 8, In-Line	A14336-ND	.61	.50	350811-1
	6, 9, 12 and 15, Matrix	A14337-ND	.71	.58	350812-1
Open Plug Housing UL94V-2 Strain Reliefs — Nylon, Natural Color					
6	2, 3, 4, 5, 6 and 8, In-Line	A25326-ND	.55	.45	1-350589-0
	6, 9, 12 and 15, Matrix	A25327-ND	.64	.52	1-350590-0

Cap Housing Adapters

Fig.	Description	Digi-Key Part No.	Price Each		AMP Part No.
			10	100	
Adapters for UL94V-0 Strain Reliefs — White Color					
7	For All Positions Except 2, 6 and 8 Circuit Cap Housings ...	A24724-ND	.58	.51	641778-1
	Adapter Without NIBS For All Positions Except 2, 6 and 8 Circuit Cap Housings	A24725-ND	.58	.51	641778-2
8	For 2 In-Line and 6 Matrix Circuit Cap Housings Only	A24726-ND	.57	.50	643182-2
Adapters for UL94V-2 Strain Reliefs — Natural Color					
7	For All Positions Except 2, 6 and 8 Circuit Cap Housings ...	A24903-ND	.56	.49	641777-1
8	For 2 In-Line and 6 Matrix Circuit Cap Housings Only	A24904-ND	.74	.66	643182-1

(Continued)

Universal MATE-N-LOK® Connectors - Soft Shell *(Cont.)*

Splash Proof Seals

Fig.	No. of Circuits	Interface Seal Digi-Key Part No.	Price Each 1	100	AMP Part No.	Wire Seal Digi-Key Part No.	Price Each 1	100	AMP Part No.
9	2	A25390-ND	.25	.21	794269-1	A25397-ND	.32	.27	794270-1
	3	A25391-ND	.34	.28	794271-1	A25398-ND	.45	.37	794272-1
	4	A25392-ND	.62	.51	794273-1	A25399-ND	.92	.75	794274-1
	6	A25393-ND	.51	.41	794275-1	A25400-ND	.74	.61	794276-1
	9	A25394-ND	.82	.67	794277-1	A25401-ND	1.15	.94	794278-1
	12	A25395-ND	1.14	.93	794279-1	A25402-ND	2.11	1.71	794280-1
	15	A25396-ND	1.92	1.56	794281-1	A25403-ND	2.74	2.22	794282-1
Keying Plug, Nylon, UL94V-0						A25156-ND	5.28/10		770377-1

Fig. 9

- Economical splash proof and immersible sealed connector system
- One interface seal and two wire seals required per mated assembly **Material:** Silicone rubber, blue color

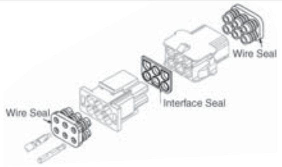

Contacts

Contact Plating:
A: Phosphor bronze pre-tin plated **B:** Brass pre-tin plated **C:** Gold Finish: Plated with .000030" (.000762mm) min. gold in mating area and inside wire barrel over .000050" (.00127mm) min. nickel underplate on entire contact **D:** Select Gold Finish: Plated with .000030" (.000762mm) min. gold in mating area over .000050" (.00127mm) min. nickel underplate on entire contact

Pin Connector

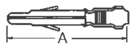

Socket Connector

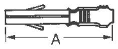

Split Pin

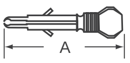

Programmable Connector Contact

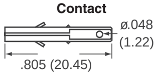

Wire Size (AWG)	Ins. Dia. Inch (mm)	Material	Plat-ing	Dim. A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	1,000	Digi-Key Part No.	Strip Tape & Reel Size	Pricing	AMP Part No.
Pin Contacts																
30-26	.032 - .057 (.813-1.45)	Brass	B	.790 (20.06)	A25405-ND	1.44	9.72	770672-1	A25405CT-ND	—	—	87.88	A25405TR-ND	8,000	52.73/M	350924-1
		Phos. Brz.	C		A25353-ND	14.42	96.98	770672-6	—	—	—	—	—	—	—	—
24-18	.040 - .100 (1.02-2.54)	Brass	B	.790 (20.06)	A14298-ND	1.10	7.39	350690-1	—	—	—	—	—	—	—	—
		Brass	C		A14299-ND	9.17	61.71	350690-2	A14299CT-ND	—	—	633.35	A14299TR-ND	7,000	380.01/M	350561-2
		Brass	D		A25359-ND	5.59	37.58	350690-7	A25359CT-ND	—	—	313.43	A25359TR-ND	7,000	188.06/M	350561-7
		Phos. Brz.	A		A25362-ND	1.43	9.59	350690-3	A25362CT-ND	—	—	65.85	A25362TR-ND	7,000	39.51/M	350561-3
20-14	.060 - .130 (1.52-3.30)	Brass	B	.790 (20.06)	A14300-ND§	1.07	7.23	350547-1	—	—	—	—	—	—	—	—
		Brass	C		A14301-ND§	9.10	61.22	350547-2	A14301CT-ND§	—	—	633.35	A14301TR-ND§	5,000	380.01/M	350218-2
		Brass	D		A25341-ND§	5.60	37.65	350547-7	—	—	—	—	—	—	—	—
		Phos. Brz.	A		A25343-ND§	1.46	9.80	350547-3	—	—	—	—	—	—	—	—
		Phos. Brz.	D		A25346-ND§	11.08	74.51	350547-6	A25346CT-ND§	—	—	478.05	A25346TR-ND§	5,000	286.83/M	350218-6
	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	A14303-ND	1.35	9.08	350552-1	—	—	—	—	—	—	—	—
		Brass	C		A25368-ND	8.90	59.86	350552-2	A25368CT-ND	—	362.97	659.95	A25368TR-ND	2,500	527.96/M	350538-2
		Brass	D		A25371-ND	7.23	48.67	350552-7	A25371CT-ND	—	239.55	435.55	A25371TR-ND	2,500	348.44/M	350538-7
		Phos. Brz.	A		A25374-ND	1.99	13.40	350552-3	A25374CT-ND	—	55.40	100.73	A25374TR-ND	2,500	80.58/M	350538-3
		Phos. Brz.	D		A25408-ND	13.47	90.63	350552-6	A25408CT-ND	—	341.73	621.33	A25408TR-ND	2,500	497.06/M	350538-6
18-14	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	—	—	—	—	A25378CT-ND	7.31	31.07	55.27	A25378TR-ND	2,500	47.44/M	350873-1
		Phos. Brz.	A		A25380-ND	1.86	12.52	350918-3	—	—	—	—	—	—	—	—
12-10	.200 max. (5.08)	Phos. Brz.	A	.810 (20.57)	A25382-ND†	2.99	20.11	640309-3	—	—	—	—	—	—	—	—
			D		A25386-ND†	13.42	90.28	640309-6	A25386CT-ND†	—	—	712.40	A25386TR-ND†	3,000	569.92/M	350922-6
Socket Contacts																
30-26	.032 - .057 (.813-1.45)	Brass	B	.760 (19.30)	A25352-ND	1.63	10.98	770673-1	A25352CT-ND	—	—	61.15	A25352TR-ND	8,000	36.69/M	350925-1
24-18	.040 - .100 (1.02-2.54)	Brass	B	.760 (19.30)	A1437-ND*	1.17	7.84	350689-1	—	—	—	—	—	—	—	—
		Brass	C		A25357-ND	9.02	60.67	640347-2	A25357CT-ND	—	357.21	649.48	A25357TR-ND	7,500	389.69/M	350851-2
		Brass	C		A1439-ND*	9.40	63.22	350689-2	A1439CT-ND*	—	339.36	617.03	A1439TR-ND*	7,500	370.22/M	350570-2
		Brass	D		A25360-ND*	5.66	38.09	350689-7	A25360CT-ND	—	174.41	317.10	A25360TR-ND	7,500	190.26/M	350851-7
		Phos. Brz.	A		A25363-ND*	1.44	9.68	350689-3	A25363CT-ND*	—	34.43	62.60	A25363TR-ND*	7,500	37.56/M	350570-3
		Phos. Brz.	D		—	—	—	—	A25364CT-ND*	60.73	258.29	384.48	A25364TR-ND*	7,500	295.76/M	350570-6
20-14	.060 - .130 (1.52-3.30)	Brass	B	.760 (19.30)	A1441-ND§	1.03	6.93	350550-1	—	—	—	—	—	—	—	—
		Brass	C		A1443-ND§	9.28	62.42	350550-2	A1443CT-ND§	—	—	602.23	A1443TR-ND§	5,000	361.34/M	350536-2
		Brass	D		A25342-ND§	5.60	37.65	350550-7	—	—	—	—	—	—	—	—
		Phos. Brz.	A		A25344-ND§	1.39	9.34	350550-3	—	—	—	—	—	—	—	—
		Phos. Brz.	D		A25347-ND§	9.73	65.46	350550-6	A25347CT-ND§	—	—	504.55	A25347TR-ND§	5,000	302.73/M	350536-6
	.130 - .200 (3.30-5.08)	Brass	B	.780 (19.81)	A14302-ND	1.53	10.27	350551-1	—	—	—	—	—	—	—	—
		Brass	C		A25369-ND	9.94	66.89	350551-2	A25369CT-ND	—	414.65	753.90	A25369TR-ND	2,500	603.12/M	350537-2
		Brass	D		A25372-ND	7.34	49.37	350551-7	A25372CT-ND	—	235.08	427.43	A25372TR-ND	2,500	341.94/M	350537-7
		Phos. Brz.	A		A25375-ND	1.99	13.40	350551-3	A25375CT-ND	—	51.62	93.85	A25375TR-ND	2,500	75.08/M	350537-3
		Phos. Brz.	D		A25409-ND	13.58	91.33	350551-6	A25409CT-ND	—	258.76	470.48	A25409TR-ND	2,500	376.38/M	350537-6
18-14	.130 - .200 (3.30-5.08)	Brass	B	.780 (19.81)	—	—	—	—	A25379CT-ND	7.31	31.07	51.00	A25379TR-ND	2,500	47.44/M	350874-1
		Phos. Brz.	A		A25381-ND	1.86	12.52	350919-3	—	—	—	—	—	—	—	—
12-10	.200 max. (5.08)	Phos. Brz.	A	.780 (19.81)	A25383-ND†	2.99	20.11	640310-3	—							
			D		A25387-ND†	13.60	91.52	640310-6	A25387CT-ND†	—	397.21	722.20	A25387TR-ND†	2,500	577.76/M	350923-6
Split Pin Contacts																
24-18	.040 - .100 (1.02-2.54)	Brass	B	.790 (20.06)	A1436-ND	1.17	7.87	350706-1	—	—	—	—	—	—	—	—
			C		A1438-ND	8.74	58.82	350706-2	A1438CT-ND	—	—	682.93	A1438TR-ND	7,000	409.76/M	350699-2
			D		A25334-ND	6.37	42.82	350706-7	A25334CT-ND	—	—	328.78	A25334TR-ND	7,000	197.27/M	350699-7
20-14	.060 - .130 (1.52-3.30)	Brass	B	.790 (20.06)	A1440-ND§	1.17	7.84	350705-1	—	—	—	—	—	—	—	—
			C		A1442-ND§	8.74	58.82	350705-2	—	—	—	—	—	—	—	—
			D		A25336-ND§	6.37	42.82	350705-7	A25336CT-ND§	—	—	349.28	A25336TR-ND§	5,000	209.57/M	350687-7
	.130 - .200 (3.30-5.08)	Brass	B	.810 (20.57)	A25338-ND	1.57	10.55	350707-1	A25338CT-ND	—	34.02	61.85	A25338TR-ND	2,500	49.48/M	350700-1
			C		A25694-ND	8.80	59.19	350707-2	—	—	—	—	—	—	—	—
			D		A25730-ND	7.70	51.77	350707-7	—	—	—	—	—	—	—	—
Grounding Pin																
20-14	.060 - .130 (1.52-3.30)	Brass	B	—	A25339-ND§	1.53	10.27	350669-1	—	—	—	—	—	—	—	—
Keying Plug																
Keying Plug, UL94V-0 Nylon					A25156-ND	5.28	46.46	770377-1	—	—	—	—	—	—	—	—
Programmable Connector Contact																
Socket w/110 Series Special FASTON Tab, Brass - Pre-Tin					A25340-ND	3.40	22.85	350877-1	—	—	—	—	—	—	—	—

† There is no insulation barrel on this contact. Insulation maximum diameter is limited by the housing. Use of strain relief is recommended with these contacts. * Socket Contact - .010 (.254) stock thickness § Can be used with Splash Proof Seals

Tools and Die Sets

A25206-ND (58382-1)	Latch Disengaging Tool	**$62.67**
A1445-ND (318851-1)	Contact Extraction Tool	**$35.40**
A9998-ND (91002-1)	Contact Insertion Tool	**$18.63**
A9907-ND (91500-1)	Universal Mate-N-Lok Crimp Tool for 20-14AWG	**$471.23**
A9996-ND (354940-1)	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9944-ND (90548-2)	PRO-CRIMPER II Die Set for 24-18AWG	**$100.50**
A9943-ND (90546-2)	PRO-CRIMPER II Die Set for 20-14AWG (.060"-.130" Insulation Diameter)	**$100.50**
A9924-ND (90547-2)	PRO-CRIMPER II Die Set for 20-14AWG (.130"-.200" Insulation Diameter)	**$100.50**
A9923-ND (58530-2)	PRO-CRIMPER II Die Set for 12-10AWG	**$128.78**
A9947-ND (91510-1)	CERTI-CRIMP Hand tool with Die for 24-18AWG	**$468.14**
A9945-ND (91508-1)	CERTI-CRIMP Hand Tool with Die for 20-18AWG	**$519.12**
A9946-ND (91506-1)	CERTI-CRIMP Hand Tool with Die for 16-14AWG	**$471.23**
A28006-ND (69710-1)	CERTI-CRIMP Hand Tool without Die	**$358.50**
A25349-ND (58380-1)	CERTI-CRIMP Die Set for 12AWG	**$534.57**
A25350-ND (58380-2)	CERTI-CRIMP Die Set for 10AWG	**$553.11**
A25159-ND (90548-1)	PRO-CRIMPER with Die for 24-18AWG	**$133.50**
A25160-ND (90546-1)	PRO-CRIMPER with Die for 20-14AWG (.060"-.130" Insulation Diameter)	**$133.50**
A25161-ND (90547-1)	PRO-CRIMPER with Die for 20-14AWG (.130"-.200" Insulation Diameter)	**$133.50**

Universal MATE-N-LOK II® Connectors - Soft Shell

Housing Kits

Product Facts: • Ultimate reliability • Pins and sockets can be intermixed in the same housing • Available in 2 thru 15 Circuit sizes for free hanging or panel mount wire-to-wire connection • Polarized housings available in UL94V-0 flammability rated material • Contacts are on .250" (6.35mm) centerline spacing • UL Recognized: E28476 • Certified CSA: LR 16455-113 • Passed test by VDE under their Test Report No. 4751-1431-4016/A8E

Performance Characteristics: • Dielectric Withstanding Voltage: 5.0 KVAC or 10 KVDC between adjacent circuits • Insulation Resistance: 1000MΩ minimum between adjacent circuits • Voltage Rating: 600V AC or DC • Contact Retention: 35 ounds minimum per contact • Durability: 50 cycles, mating and unmating

Fig. 1

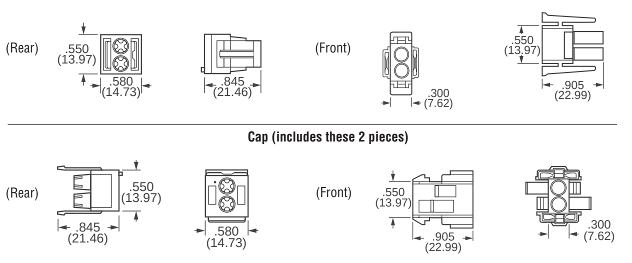
Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

Fig. 2

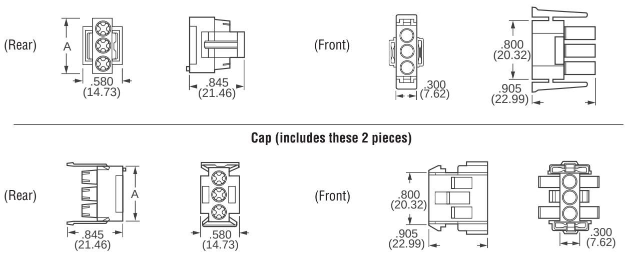
Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

Fig. 3

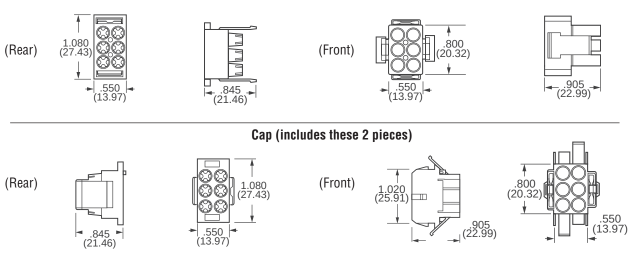
Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

Fig. 4

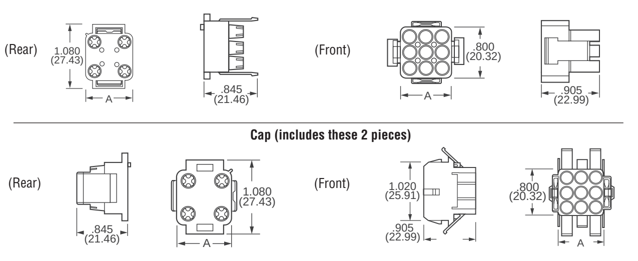
Plug (includes these 2 pieces)

Cap (includes these 2 pieces)

Fig.	Type	No. of Circuits	Descrip-tion	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
1	In-Line	2	Plug	—	A14240-ND	.76	.49	770017-1
			Cap	—	A14247-ND	.77	.50	770024-1
2	In-Line	3	Plug	.800 (20.32)	A14241-ND	.83	.53	770018-1
		3	Cap	.800 (20.32)	A14248-ND	.92	.59	770025-1
		4	Plug	1.050 (26.67)	A14242-ND	.93	.60	770019-1
		4	Cap	1.050 (26.67)	A14249-ND	1.00	.64	770026-1
		5	Plug	1.300 (33.02)	A25155-ND	1.33	.86	770016-1
3	Matrix	6	Plug	—	A14243-ND	1.06	.69	770020-1
			Cap	—	A14250-ND	1.05	.68	770027-1

Fig.	Type	No. of Circuits	Descrip-tion	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
4	Matrix	9	Plug	.800 (20.32)	A14244-ND	1.13	.73	770021-1
		9	Cap	.800 (20.32)	A14251-ND	1.12	.72	770028-1
		12	Plug	1.050 (26.67)	A14245-ND	2.02	1.30	770022-1
		12	Cap	1.050 (26.67)	A14252-ND	1.94	1.25	770029-1
		15	Plug	1.300 (33.02)	A14246-ND	1.65	1.06	770023-1
		15	Cap	1.300 (33.02)	A14253-ND	1.57	1.01	770030-1
Keying Plug, Nylon UL94V-0					A25156-ND	5.28/10	46.46/100	770377-1

Contacts

Contact Plating:
A: Phosphor bronze pre-tin plated B: Brass pre-tin plated C: Duplex Finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000050" (.00127mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Pin Connector

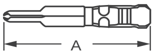

Socket Connector

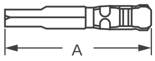

Wire Size (AWG)	Ins. Dia. Inch (mm)	Material	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing			Digi-Key Part No.	Tape and Reel		AMP Part No.
						10	100			100	500	1,000		Size	Pricing	
Split Pin Contacts																
24-18	.040-.100 (1.02-2.54)	Brass	B	1.005 (25.53)	A14254-ND‡	1.47	9.87	770252-1	A14254CT-ND‡	—	—	77.73	A14254TR-ND‡	5,000	46.64/M	770009-1
			C		A31707-ND‡	8.66	58.24	1-770252-0	A31707CT-ND‡	51.55	219.24	418.40	A31707TR-ND‡	5,000	251.04/M	1-770009-0
20-14	.060-.130 (1.52-3.30)	Brass	B	1.005 (25.53)	A14256-ND‡	1.89	12.71	770250-1	—	—	—	—	—	—	—	—
			C		A14257-ND	8.66	58.24	770250-2	A14257CT-ND	—	—	410.10	—	—	—	770007-2
			C		A31706-ND‡	8.66	58.24	1-770250-0	A31706CT-ND‡	52.04	221.35	422.43	A31706TR-ND‡	4,000	337.94/M	1-770007-0
20-14	.130-.200 (3.30-5.08)	Brass	B	.995 (25.27)	A14258-ND‡	2.49	16.72	770248-1	A14258CT-ND‡	—	63.03	114.60	A14258TR-ND‡	2,500	91.68/M	770005-1
			C		—	—	—	—	A14259CT-ND	—	294.15	534.83	A14259TR-ND	2,500	427.86/M	770005-2
			C		A31710-ND‡	10.50	70.60	1-770248-0	—	—	—	—	—	—	—	—
		Phos. Brz.	C	.995 (25.27)	—	—	—	—	A25181CT-ND	71.71	304.99	582.05	A25181TR-ND	2,500	479.62/M	770005-4
			C		—	—	—	—	A31705CT-ND‡	95.28	405.26	773.40	A31705TR-ND‡	2,500	618.72/M	1-770005-1
12-10	.200 max. † (5.08 max.)	Phos. Brz.	A	1.005 (25.53)	A14260-ND‡	3.98	26.77	770246-3	A14260CT-ND	—	—	217.90	A14260TR-ND	3,000	174.32/M	770003-3
			C		A14261-ND	18.88	127.01	770246-4	A14261CT-ND	—	—	886.25	—	—	—	770003-4
			C		A31708-ND‡	18.88	127.01	1-770246-0	-—	—	—	—	—	—	—	—
Socket Contacts																
24-18	.040-.100 (1.02-2.54)	Phos. Brz.	A	.980 (24.90)	A14262-ND‡	2.19	14.71	770253-3	A14262CT-ND‡	—	—	102.95	A14262TR-ND‡	5,000	61.77/M	770010-3
			C		A14263-ND	13.51	90.87	770253-4	A14263CT-ND	—	—	601.83	A14263TR-ND	5,000	361.10/M	770010-4
20-14	.060-.130 (1.52-3.30)	Phos. Brz.	A	.980 (24.90)	A14264-ND‡	2.30	15.47	770251-3	—	—	—	—	—	—	—	—
			C		A14265-ND	14.22	95.65	770251-4	A14265CT-ND	—	—	617.40	A14265TR-ND	4,000	370.44/M	770008-4
	.130-.200 (3.30-5.08)	Phos. Brz	A	.970 (24.64)	A14266-ND‡	3.01	20.23	770249-3	A14266CT-ND‡	—	80.64	146.63	A14266TR-ND‡	2,500	117.30/M	770006-3
			C		—	—	—	—	A14267CT-ND	—	416.06	756.48	A14267TR-ND	2,500	605.18/M	770006-4
			C		A31711-ND‡	17.28	116.27	1-770249-0	—	—	—	—	—	—	—	—
12-10	.200 max. † (5.08 max.)	Phos. Brz.	A	.980 (24.90)	A14268-ND‡	3.98	26.77	770247-3	A14268CT-ND‡	—	—	217.90	A14268TR-ND‡	3,000	174.32/M	770004-3
			C		—	—	—	—	A14269CT-ND	—	—	883.38	—	—	—	770004-4
			C		A31704-ND‡	19.14	128.76	1-770247-0	A31704CT-ND‡	112.10	476.77	909.88	A31704TR-ND‡	3,000	727.90/M	1-770004-0
Grounding Pins (mate first, break last, not for interrupting current)																
20-14	.060-.130 (1.52-3.30)	Brass	B	—	A25188-ND‡	2.88	19.36	770254-1	—	—	—	—	—	—	—	—
			C		A25443-ND	17.22	115.81	770254-2	—	—	—	—	—	—	—	—
			C		A31714-ND‡	17.22	115.81	1-770254-0	—	—	—	—	—	—	—	—
20-14	.130-.200 (3.30-5.08)	Brass	B	—	A25737-ND‡	2.88	19.36	770255-1	—	—	—	—	—	—	—	—
			C		A25738-ND	17.21	115.81	770255-2	—	—	—	—	—	—	—	—

‡ *RoHS Compliant*

† There is no insulation barrel on this contact. Insulation maximum diameter is limited by the housing. Use of strain relief is recommended with these contacts.

(Continued)

Strain Relief and Adapters — UL94V-0 White Nylon

Fig.	No. of Circuits	Description	Insert Supplied	Wire Bundle Size - Inch (mm)	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Enclosed Plug Housing Strain Relief (Two strain reliefs required per housing)								
1	2	In-Line	Yes	.040-.190 (1.02-4.83)	A14338-ND	1.11	.90	640713-1
			No	.200-.350 (5.08-8.89)	A25162-ND	1.11	.90	640713-2
	3	In-Line	Yes	.040-.190 (1.02-4.83)	A14339-ND	1.03	.84	640714-1
			No	.200-.350 (5.08-8.89)	A25163-ND	.90	.73	641945-1
	4	In-Line	Yes	.040-.190 (1.02-4.83)	A14340-ND	1.14	.92	641776-1
			No		A25164-ND	.97	.79	641776-2
	5	In-Line	Yes	.040-.190 (1.02-4.83)	A14341-ND	1.15	.94	643030-1
			No	.200-.350 (5.08-8.89)	A25165-ND	1.15	.94	643030-4
	6	Matrix	Yes	.120-.650 (3.05-16.51)	A14344-ND	1.07	.87	640715-1
	9			.120-.650 (3.05-16.51)	A14345-ND	1.11	.90	640716-1
	12			.150-.750 (3.81-19.05)	A14346-ND	1.24	1.01	640717-1
	15			.200-.850 (5.08-21.59)	A14347-ND	1.23	1.00	640718-1

Fig. 1

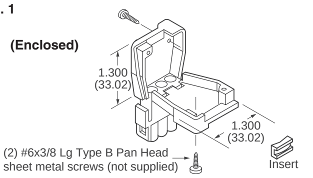
(Enclosed)
1.300
(33.02)
1.300
(33.02)
(2) #6x3/8 Lg Type B Pan Head
sheet metal screws (not supplied)
Insert

Fig. 2

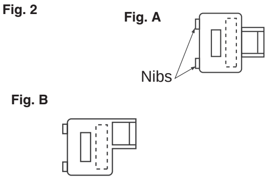

Fig.	Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Cap Housing Adapters					
2A	For all Positions except 2, 6, and 8 Circuits Cap Housing	A24724-ND	.58	.51	641778-1
	Adapter w/out NIBS for all Positions except 2, 6, and 8 Circuits Cap Housings	A24725-ND	.58	.51	641778-2
2B	For 2 In-Line and 6 Matrix Circuit Cap Housings Only	A24726-ND	.57	.50	643182-2

Tools and Die Sets

Part No.	Description	Price
A25206-ND (58382-1)	Latch Disengaging Tool	**$62.67**
A1445-ND (318851-1)	Contact Extraction Tool	**$35.40**
A1444-ND (455830-1)	Contact Insertion Tool (Larger Than .090" Ins. Dia.)	**$17.06**
A9998-ND (91002-1)	Contact Insertion Tool (.090" Max. Ins. Dia.)	**$18.63**
A9996-ND (354940-1)	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9944-ND (90548-2)	PRO-CRIMPER II Die Set for 24-18AWG	**$100.50**
A9943-ND (90546-2)	PRO-CRIMPER II Die Set for 20-14AWG (.060"-.130" Ins. Dia.)	**$100.50**
A9924-ND (90547-2)	PRO-CRIMPER II Die Set for 20-14AWG (130"-.200"Ins. Dia.)	**$100.50**
A9923-ND (58530-2)	PRO-CRIMPER II Die Set for 12-10AWG	**$128.78**
A9947-ND (91510-1)	CERTI-CRIMP Hand Tool with Die for 24-18AWG	**$468.14**
A9945-ND (91508-1)	CERTI-CRIMP Hand Tool with Die for 20-18AWG	**$519.12**
A9946-ND (91506-1)	CERTI-CRIMP Hand Tool with Die for 16-14AWG	**$471.23**
A28006-ND (69710-1)	CERTI-CRIMP Hand Tool without Die	**$358.50**
A25349-ND (58380-1)	CERTI-CRIMP Die Set for 12AWG	**$534.57**
A25350-ND (58380-2)	CERTI-CRIMP Die Set for 10AWG	**$553.11**
A25159-ND (90548-1)	PRO-CRIMPER with Die for 24-18AWG	**$133.50**
A25160-ND (90546-1)	PRO-CRIMPER with Die for 20-14AWG (.060"-.130" Ins. Dia.)	**$133.50**
A25161-ND (90547-1)	PRO-CRIMPER with Die for 20-14AWG (.130"-.200" Ins. Dia.)	**$133.50**

.140" (3.56mm) Connector Housing Kits

Product Facts:

- .240 Centerline spacing
- Nylon, natural color and flammability rating UL94V-2
- Recognized under the component program of UL File No. E28476. Certified by Canadian Standards Assoc. File No. LR 7189A-381

Performance Characteristics:

- Dielectric Withstanding Voltage: 3.0KVAC between adjacent circuits
- Insulation Resistance: 1000MΩ minimum initial between adjacent circuits
- Voltage Rating: 250V AC or DC
- Durability: 25 cycles, mating and unmating
- Thermal Shock: -55° C ~ 85° C
- Wire Size: 20-10 AWG

Fig. 1

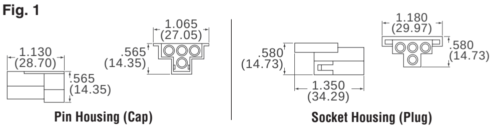

Pin Housing (Cap) Socket Housing (Plug)

Fig. 2

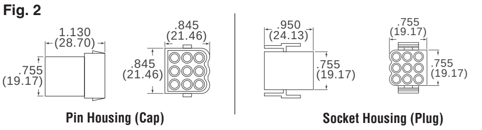

Pin Housing (Cap) Socket Housing (Plug)

Fig. 3

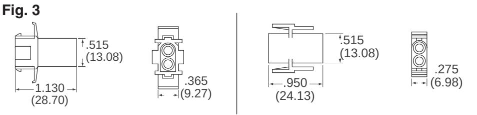

Pin Housing (Cap) Socket Housing (Plug)

Fig. 4

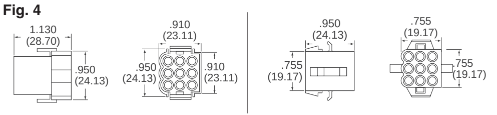

Pin Housing (Cap) Socket Housing (Plug)

Fig.	Type	No. of Circuits	Description	Digi-Key Part No.	Price Each 10	50	100	AMP Part No.
Free Hanging Housing								
1	Matrix	4	Cap	A25464-ND	1.88	1.46	1.20	1-480512-0
			Plug	A25465-ND	2.01	1.56	1.28	1-480510-0
2	Matrix	9	Cap	A25466-ND	2.16	1.68	1.38	1-480586-0
			Plug	A25467-ND	2.16	1.68	1.38	1-480585-0

Fig.	Type	No. of Circuits	Description	Digi-Key Part No.	Price Each 10	50	100	AMP Part No.
Panel Mount Housing								
3	In-line	2	Cap	A25468-ND	.47	.37	.30	1-350345-0
			Plug	A25469-ND	.47	.37	.30	1-350344-0
		3	Cap	A25470-ND	.57	.44	.36	1-350347-0
			Plug	A25471-ND	.57	.44	.36	1-350346-0
4	Matrix	9	Cap	A25472-ND	1.19	.93	.76	1-480673-0
			Plug	A25473-ND	1.19	.93	.76	1-480672-0

Contacts

Specification: • Pin diameter: .140" (3.57mm) • Stock thickness: .014" (.357mm)
Contact Plating: A: Phosphor bronze pre-tin plated **B:** Brass pre-tin plated

Pin Connector

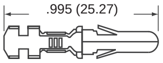

Socket Connector

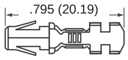

Wire Size (AWG)	Ins. Dia. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	50	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	1,000	Digi-Key Part No.	Strip Tape & Reel Size	Pricing	AMP Part No.
Pin Contacts																
20-14	.100-.180	Brass	B	A25454-ND	2.93	11.35	18.66	350389-1	A25454CT-ND	—	60.24	109.53	A25454TR-ND	2,500	87.62/M	61627-1
	(2.54-4.5)	Phos. Brz.	A	—	—	—	—	—	A25456CT-ND	24.72	105.15	156.53	A25456TR-ND	2,500	160.54/M	61627-2
14-10	.100-.180	Brass	B	A25460-ND	2.93	11.35	18.66	350391-1	A25460CT-ND	—	60.83	110.60	A25460TR-ND	2,500	88.48/M	350201-1
	(2.54-4.5)	Phos.Brz.	A	A25751-ND	4.52	17.54	28.85	350391-2	A25751CT-ND	—	110.37	200.68	A25751TR-ND	2,500	160.54/M	350201-2
Socket Contacts																
20-14	.100-.180	Brass	B	A25455-ND	2.60	10.08	16.57	350388-1	A25455CT-ND	—	49.90	90.73	A25455TR-ND	2,500	72.58/M	61626-1
	(2.54-4.5)	Phos. Brz.	A	—	—	—	—	—	A25457CT-ND	21.07	89.62	133.40	A25457TR-ND	2,500	136.82/M	61626-2
14-10	.100-.180	Brass	B	A25461-ND	2.60	10.08	16.57	350390-1	A25461CT-ND	—	49.06	89.20	A25461TR-ND	2,500	71.36/M	350200-1
	(2.54-4.5)	Phos. Brz.	A	A25752-ND	4.01	15.57	25.60	350390-2	A25752CT-ND	—	94.06	171.03	A25752TR-ND	2,500	136.82/M	350200-2
Tools																
CERTI-CRIMP without Die Set for 14-10AWG				A28006-ND		358.50/1		69710-1	—	—	—	—	—	—	—	—
CERTI-CRIMP Die Set for 14-12AWG				A9915-ND		2284.13/1		58374-1	—	—	—	—	—	—	—	—
CERTI-CRIMP Die Set for 10AWG				A9914-ND		4474.32/1		58373-1	—	—	—	—	—	—	—	—
Contact Extraction Tool				A25474-ND		105.57/1		318845-1	—	—	—	—	—	—	—	—

Universal Headers (For MATE-N-LOK® and MATE-N-LOK II® Connectors)

Fig. 1
Housing: 94V-2 rating, nylon natural color. 94V-0 rating, white unless noted otherwise
Contact: Phosphor bronze. **Contact Plating: A:** Phosphor bronze pre-tin plated **B:** .000030" (0.000762mm) minimum gold in mating area, matte tin-lead on solder tail end over .000050" (0.00127mm) minimum nickel underplate on entire contact

Fig. 1A
In-Line Circuits

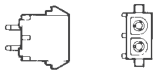

Fig. 1B
Multiple Row Circuits

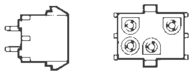

Fig. 2
Housing: 94V-2 rated, natural nylon.
Contact: Phosphor bronze. **Contact Plating: A:** Phosphor bronze pre-tin plated **B:** .000030" (0.000762 mm) minimum gold in mating area, matte tin-lead on solder tail end over .000050" (0.00127 mm) minimum nickel underplate on entire contact

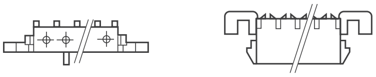

Fig. 3
Housing: PBT, black
Contact: Copper alloy, plated with tin-lead over nickel on entire contact

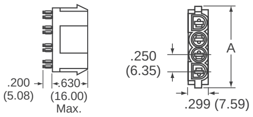

For MATE-N-LOK® Connectors

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Vertical Pin Headers — PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board)							
1A	6	A	UL94V-0	A25287-ND*	2.28	1.64	641831-1
	8	A		A14321-ND*	1.81	1.30	641828-1
1A	2	A	UL94V-2	A1466-ND*	.44	.32	350428-1
	3	A		A1468-ND*	.56	.41	350429-1
	3	B		A31742-ND*	2.65	1.91	350429-4
	4	A		A1470-ND*	.73	.53	350430-1
	4	B		A31743-ND*	3.49	2.51	350430-4
	5	A	UL94V-2	A14317-ND*	1.13	.81	640466-1
	6	A		A14319-ND*	2.61	1.88	641832-1
	8	A		A14320-ND*	2.26	1.62	641825-1
1B	6	A	UL94V-2	A1472-ND*	.72	.52	350431-1
	6	B		A31744-ND*	4.94	3.54	350431-4
	9	A		A1474-ND*	1.32	.95	350432-1
	9	B		A31745-ND*	6.93	4.97	350432-4
	12	A		A1476-ND*	1.59	1.14	350433-1
	12	B	UL94V-2	A31746-ND*	10.33	7.41	350433-4
	15	A		A1478-ND*	1.73	1.25	350434-1
	15	B		A31747-ND*	11.10	7.96	350434-4
Standard Tail Polarized (for .062" (1.57mm) thick PC board)							
1A	6	A	UL94V-0	A25293-ND*	2.39	1.72	643408-1
	8			A25295-ND*	2.79	2.00	643410-1
1A	2	A	UL94V-2	A25288-ND*	.73	.53	641963-1
	3			A25289-ND*	.81	.58	641965-1
	4			A25290-ND*	.83	.60	641967-1
	5			A25291-ND*	1.83	1.32	643405-1
	6			A25292-ND*	2.17	1.56	643407-1
1B	6	A	UL94V-2	A25294-ND*	1.38	.99	641969-1
	9			A25296-ND*	1.71	1.23	641971-1
	12			A25297-ND*	1.64	1.18	641973-1
	15			A25298-ND*	2.56	1.84	641975-1
Long Tail — (for .125" (3.18mm) thick PC board)							
1A	2	A	UL94V-2	A25299-ND*	.74	.54	350582-1
	2	B		A25300-ND	1.91	1.37	350582-2
	2	B		A31748-ND*	1.91	1.37	350582-4
	3	A		A25301-ND*	.81	.59	350583-1
	3	B		A25302-ND	2.87	2.06	350583-2
	3	B	UL94V-2	A31749-ND*	2.87	2.06	350583-4
	4	A		A25303-ND*	1.03	.74	350584-1
	4	B		A25304-ND	3.38	2.43	350584-2
	4	B		A31750-ND*	3.38	2.43	350584-4
	8	A		A25307-ND*	2.37	1.70	770143-1
1B	6	A	UL94V-2	A25305-ND*	1.34	.96	350585-1
	6	B		A25306-ND	5.37	3.86	350585-2
	6	B		A31751-ND*	5.37	3.86	350585-4
	9	A		A25308-ND*	1.65	1.19	350586-1
	9	B		A31752-ND*	7.52	5.40	350586-4
	12	A	UL94V-2	A25310-ND*	2.38	1.71	350587-1
	15	A		A25311-ND*	2.48	1.79	350588-1
Vertical Socket Headers — PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-2	A1490-ND*	.43	.35	350759-4
	2	B		A1491-ND	1.51	.83	350759-3
	2	B		A31759-ND*	1.51	.83	350759-5
	3	A		A1492-ND*	.54	.44	350760-4
	3	B		A1493-ND	2.10	1.15	350760-3
	3	B	UL94V-2	A31760-ND*	2.10	1.15	350760-5
	4	A		A1494-ND*	.46	.38	350761-4
	4	B		A1495-ND	2.53	1.39	350761-3
	4	B		A31761-ND*	2.69	1.48	350761-5
	5	A		A25312-ND*	1.48	1.07	640467-1
1B	6	A	UL94V-2	A1496-ND*	.75	.61	350762-4
	6	B		A1497-ND	4.00	2.19	350762-3
	6	B		A31762-ND*	4.00	2.19	350762-5
	9	A		A1498-ND*	.86	.70	350763-4
	12	A		A1200-ND*	1.25	1.02	350764-4
	12	B	UL94V-2	A31763-ND*	8.63	4.73	350764-5
	15	A		A1202-ND*	1.95	1.58	350765-4
Standard Tail - Polarized (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-2	A25313-ND*	.64	.53	643411-1
	3			A25314-ND*	.59	.49	643413-1
	4			A25315-ND*	.76	.62	643415-1
1B	6	A	UL94V-2	A25316-ND*	.79	.65	643423-1
	9			A25317-ND*	1.06	.86	643425-1
	15			A25318-ND*	2.05	1.66	643429-1
Long Tail (for .125" (3.18mm) thick PC board)							
1A	2	A	UL94V-2	A25319-ND*	.55	.45	350986-4
	4			A25320-ND*	.77	.63	350988-4
1B	6	A	UL94V-2	A25321-ND*	1.27	1.04	350989-4
	9			A25322-ND*	1.47	1.19	350990-4
	15			A25323-ND*	2.05	1.66	350992-4

** RoHS Compliant*

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Right Angle Pin Header Assemblies — PCB Mount							
2	6	A	UL94V-0	A14311-ND*	3.45	2.48	640583-1
	6	B		A31769-ND*	8.95	6.42	640583-3
	8	A		A14312-ND*	3.69	2.65	640584-1
	8	B		A14313-ND	9.22	6.61	640584-2
	8	B	UL94V-0	A31770-ND*	9.22	6.61	640584-3
	4	A		A25210-ND*	2.18	1.57	1-350948-0
Right Angle Socket Header Assemblies — PCB Mount							
2	6	A	UL94V-0	A25220-ND*	4.22	3.42	643234-1
	6	B		A31773-ND*	9.09	4.98	3-643234-0
	8	A		A25222-ND*	5.42	4.39	643236-1
	8	B		A25223-ND	12.83	7.02	643236-2
	8	B		A31774-ND*	12.83	7.02	3-643236-0

** RoHS Compliant*

For MATE-N-LOK® and MATE-N-LOK II® Connectors

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Vertical Pin Headers — PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-0	A14314-ND*	.72	.52	350786-1
	3			A14315-ND*	.88	.64	350789-1
	4			A14316-ND*	1.04	.75	350792-1
	5			A14318-ND*	1.66	1.20	640900-1
1B	6	A	UL94V-0	A14322-ND*	1.71	1.23	350711-1
	6	B		A31753-ND*	4.88	3.51	350711-4
	9	A		A14324-ND*	1.60	1.15	350712-1
	12	A		A14325-ND*	1.93	1.39	350713-1
	12	B		A31754-ND*	6.59	4.73	350713-4
	15	A		A14327-ND*	2.42	1.74	350714-1
Standard Tail Polarized (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-0	A25230-ND*	1.15	.83	641964-1
	3			A25231-ND*	1.26	.91	641966-1
	4			A25232-ND*	1.49	1.07	641968-1
	5			A25233-ND*	1.98	1.42	643406-1
1B	6	A	UL94V-0	A25234-ND*	1.85	1.33	641970-1
	6	B		A31771-ND*	6.36	4.57	641970-3
	9	A		A25236-ND*	2.40	1.73	641972-1
	9	B		A31772-ND*	8.05	5.77	641972-3
	12	A		A25238-ND*	2.99	2.14	641974-1
Long Tail (for .125" (3.18mm) thick PC board)							
1A	2	A	UL94V-0	A25240-ND*	1.10	.79	350787-1
	2	B		A25241-ND	2.52	1.81	350787-2
	2	B		A31764-ND*	2.52	1.81	350787-3
	3	A		A25242-ND*	1.21	.87	350790-1
	3	B		A31765-ND*	3.25	2.34	350790-3
	4	A	UL94V-0	A25244-ND*	1.43	1.03	350793-1
	4	B		A25245-ND	4.07	2.92	350793-2
	4	B		A31766-ND*	4.07	2.92	350793-3
1B	6	A	UL94V-0	A25246-ND*	1.78	1.28	350732-1
	6	B		A25247-ND	5.70	4.09	350732-2
	6	B		A31755-ND*	5.70	4.09	350732-4
	9	A		A25248-ND*	2.09	1.51	350742-1
	9	B		A25249-ND	7.75	5.56	350742-2
	9	B	UL94V-0	A31758-ND*	7.75	5.56	350742-4
	12	A		A25250-ND*	2.89	2.07	350737-1
	12	B		A31756-ND*	11.48	8.23	350737-4
	15	A		A25252-ND*	2.93	2.10	350738-1
	15	B		A31757-ND*	12.21	8.75	350738-4
Vertical Socket Headers — PCB Mount							
Standard Tail (for .062" (1.57mm) thick PC board)							
1A	3	A	UL94V-0	A14328-ND*	.58	.48	350825-1
	4			A14329-ND*	.79	.64	350826-1
1B	6	A	UL94V-0	A14330-ND*	1.07	.87	350827-1
	9	A		A14331-ND*	1.19	.96	350828-1
	12	A		A14332-ND*	1.58	1.28	350829-1
	12	B		A14333-ND	9.17	5.02	350829-2
	12	B		A31767-ND*	9.17	5.02	350829-4
	15	A	UL94V-0	A14334-ND*	1.92	1.56	350830-1
	15	B		A14335-ND	9.64	5.28	350830-2
	15	B		A31768-ND*	9.64	5.28	350830-4
Standard Tail - Polarized (for .062" (1.57mm) thick PC board)							
1A	2	A	UL94V-0	A25262-ND*	.78	.63	643412-1
	3	A		A25263-ND*	.90	.73	643414-1
	4	A		A25264-ND*	1.01	.82	643416-1
	6	A		A25265-ND*	1.16	.94	643424-1
	6	B		A25266-ND	6.15	3.37	643424-2

** RoHS Compliant*

(Continued)

Universal Headers (For MATE-N-LOK® and MATE-N-LOK II® Connectors) *(Cont.)*

For MATE-N-LOK® and MATE-N-LOK II® Connectors *(Cont.)*

Fig.	No. of Circuits	Contact Plating	Material	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
1B	6	B	UL94V-0	A31775-ND*	6.15	3.37	643424-3
	9	A		A25267-ND*	1.31	1.07	643426-1
	9	B		A25268-ND	3.72	3.02	643426-2
	9	B		A31776-ND*	4.69	2.57	643426-3
	12	A		A25269-ND*	2.34	1.90	643428-1
	15	A		A25270-ND*	2.45	1.99	643430-1
Long Tail (for .125” (3.18mm) thick PC board)							
1A	2	A	UL94V-0	A25271-ND*	.82	.67	350831-1
	3	A		A25272-ND*	.90	.74	350832-1
	3	B		A25273-ND	3.78	2.08	350832-2
	3	B		A31733-ND*	2.88	1.58	350832-4
	4	A		A25274-ND*	1.05	.86	350833-1
	4	B		A31734-ND*	3.65	2.00	350833-4
1B	6	A	UL94V-0	A25276-ND*	1.32	1.07	350834-1
	6	B		A31735-ND*	4.87	2.67	350834-4
	9	A		A25278-ND*	1.63	1.32	350835-1
	9	B		A31736-ND*	6.67	3.65	350835-4
	12	A	UL94V-0	A25280-ND*	2.26	1.83	350836-1
	12	B		A31737-ND*	10.04	5.50	350836-4
	15	A		A25282-ND*	2.27	1.84	350837-1
	15	B		A25283-ND	14.04	7.69	350837-2
	15	B		A31738-ND*	16.13	8.83	350837-4
Right Angle Pin Header Assemblies — PCB Mount							
2	2	A	UL94V-0	A14306-ND*	1.81	1.30	1-350942-0
	2	B		A1481-ND	3.16	2.27	2-350942-0
	2	B		A31729-ND*	3.16	2.27	3-350942-0
	3	A		A14307-ND*	1.84	1.33	1-350943-0
2	3	B	UL94V-0	A31730-ND*	5.52	3.96	3-350943-0
	4	A		A1484-ND*	1.88	1.35	1-350944-0
	4	B		A14309-ND	4.79	3.44	2-350944-0
	4	B		A31731-ND*	4.79	3.44	3-350944-0
	5	A	UL94V-0	A1486-ND*	2.26	1.62	1-350945-0
	5	B	UL94V-0	A31732-ND*	6.91	4.95	3-350945-0
	6	A	UL94V-2	A25212-ND*	3.87	2.78	640587-1
Right Angle Socket Header Assemblies — PCB Mount							
2	2	A	UL94V-0	A25213-ND*	2.02	1.64	643226-1
	3	A		A25214-ND*	2.42	1.96	643228-1
	3	B		A25215-ND	5.51	3.02	643228-2
	3	B		A31739-ND*	5.09	2.79	3-643228-0
	4	A	UL94V-0	A25216-ND*	2.36	1.91	643230-1
	4	B		A25217-ND	7.37	4.04	643230-2
	4	B		A31740-ND*	6.68	3.66	3-643230-0
	5	A	UL94V-0	A25218-ND*	3.72	3.01	643232-1
	5	B		A31741-ND*	8.16	4.47	3-643232-0

** RoHS Compliant*

For MATE-N-LOK II® Connectors

Fig.	No. of Circuits	Style	Dim. A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Vertical Pin Headers with ACTION PIN Contacts — PCB Mount — UL94V-0 (Install in PC Board with arbor press)							
3	2	In-Line	.750 (19.05)	A25207-ND	8.49	6.09	173924-1
	3		1.000 (25.40)	A25208-ND	9.36	6.71	173925-1
	4		1.250 (31.75)	A25209-ND	9.99	7.16	173926-1

.062” (1.57mm) Soft-Shell Commercial Pin and Socket Connectors

Product Facts: • Polarized • Cavity Identification • Low contact-mating force • Detent and positive locking • Tin plating • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189

AMP .062” (1.57mm) Soft-Shell Commercial Pin and Socket connectors form a total system of economical commercial-grade connectors and offer compatibility with competitive soft shells.

Fig. 1 — 1 Circuit, In-line

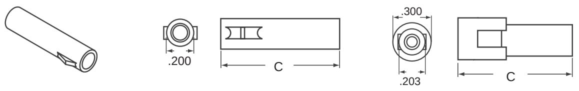

Fig. 2 — 2, 3 and 4 Circuit, In-line

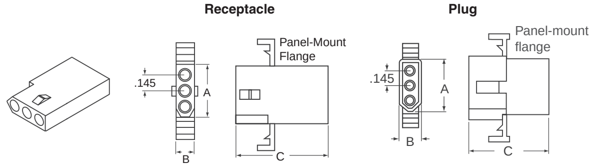

Fig. 3

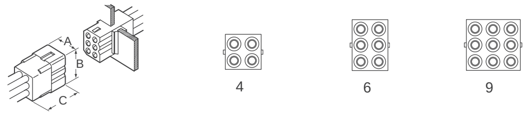

Description	Digi-Key Part No.	Price Each	AMP Part No.
Tools			
Contact Insertion Tool	A9998-ND	18.63	91002-1
Contact Extraction Tool	A25483-ND	82.50	318831-1
Crimp Tool 24-30AWG with Die	A9819-ND	186.35	90870-1
Crimp Tool 18-24AWG with Die	A9820-ND	159.99	90869-1
PRO-CRIMPER Hand Tool without Die	A9996-ND	66.00	354940-1
PRO-CRIMPER Die Set 18-24AWG, Use with A9996	A9957-ND	106.05	90869-2
PRO-CRIMPER Die Set 24-30AWG, Use with A9996	A9956-ND	140.90	90870-2

General Specifications:
• Thermal Shock: -55°C ~ 105°C • Temperature-Humidity Cycling: 25°C ~ 65°C at 90 ~ 95% RH • Durability: 50 mating cycles • Dielectric Withstanding Voltage: 1.0kVAC • Insulation Resistance: 1000MΩ minimum initial • Voltage Rating: 250VAC • Contact Rating: 24 ~ 30AWG: .5 ~ 1.5 Amps, 18 ~ 24AWG: 1.5 ~ 6 Amps • Contacts may be used in either plug or receptacle housings.

Fig.	No of Circuits	Description	Dimension (Inch) A	B	C	Digi-Key Part No.	Pricing 10	50	AMP Part No.
Free-Hanging Housings									
1	1	Receptacle, with Detent, In-line	—	—	.785	A14001-ND	1.18	4.56	770277-1
2	2	Receptacle, with Detent, In-line	.340	.199	.820	A14002-ND	1.84	5.25	770342-1
2	2	Receptacle, Positive, In-line	.340.	.199	.820	A25484-ND	4.87	18.90	770419-1
2	3	Receptacle, with Detent, In-line	.490	.199	.785	A14003-ND	2.65	10.27	770333-1
2	4	Receptacle, with Detent, In-line	.635	.199	.785	A14004-ND	8.62	33.45	770274-1
3	4	Receptacle, with Detent, Matrix	.345	.345	.878	A14005-ND	2.80	10.86	770442-1
3	6	Receptacle, with Detent, Matrix	.345	.495	.785	A14006-ND	3.80	14.74	770356-1
3	9	Receptacle, with Detent, Matrix	.490	.495	.790	A14007-ND	2.88	11.19	770429-1
1	1	Plug, with Detent, In-line	—	—	.750	A14008-ND	1.36	5.28	770278-1
2	2	Plug, with Detent, In-line	.440	.300	.780	A14009-ND	1.38	3.95	770340-1
2	3	Plug, with Detent, In-line	.590	.300	.750	A14010-ND	2.49	9.66	770331-1
2	4	Plug, with Detent, In-line	.733	.300	.750	A14011-ND	8.69	33.70	770275-1
3	4	Plug, with Detent, Matrix	.445	.445	.868	A14012-ND	4.05	15.72	770433-1
3	6	Plug, with Detent, Matrix	.445	.600	.750	A14013-ND	3.25	12.62	770355-1
3	9	Plug, with Detent, Matrix	.590	.600	.750	A14014-ND	2.56	9.92	770428-1
Panel Mount Housings — UL94V-2									
2	2	Receptacle, with Detent, In-line	.340	.199	.820	A25485-ND	4.95	19.20	770343-1
2	3	Receptacle, with Detent, In-line	.490	.199	.785	A25486-ND	5.93	23.00	770326-1
2	4	Receptacle, with Detent, In-line	.635	.199	.785	A25487-ND	8.62	33.45	770335-1
3	4	Receptacle, with Detent, Matrix	.345	.345	.878	A25488-ND	4.05	15.73	770441-1
3	6	Receptacle, with Detent, Matrix	.345	.495	.785	A25489-ND	8.83	34.27	770354-1
3	9	Receptacle, with Detent, Matrix	.490	.495	.790	A25758-ND	4.29	16.64	770427-1
2	2	Plug, with Detent, In-line	.440	.300	.780	A25490-ND	4.50	17.46	770341-1
2	3	Plug, with Detent, In-line	.590	.300	.750	A25491-ND	2.49	9.66	770332-1
2	4	Plug, with Detent, In-line	.733	.300	.750	A25759-ND	8.69	33.70	770334-1
3	4	Plug, with Detent, Matrix	.445	.445	.868	A25492-ND	11.12	43.13	770443-1
3	6	Plug, with Detent, Matrix	.445	.600	.750	A25760-ND	8.87	34.42	770353-1
3	9	Plug, with Detent, Matrix	.590	.600	.750	A25761-ND	3.78	14.65	770426-1

Description	Insulation Diameter Range Inch (mm)	Digi-Key Part No.	Loose Piece Pricing 100	500	AMP Part No.	Digi-Key Part No. †	Tape and Reel Size	Pricing	AMP Part No.
.062” (1.57mm) Contacts									
Pin, 24-30AWG — Brass, Pre-tin	.060 (1.524)	A14016-ND	4.98	21.53	794018-1	A14016TR-ND	10,000	42.26/M	640391-1
Socket, 24-30AWG — Brass, Pre-tin	.060 (1.524)	A14048-ND	4.98	21.53	794019-1	A14048TR-ND	10,000	16.66/M	640392-1
Pin, 18-24AWG — Brass, Pre-tin	.050 ~ .110 (1.27 ~ 2.794)	A14015-ND	4.98	21.53	794017-1	A14015TR-ND	6,000	29.70/M	770983-1
Socket, 18-24AWG — Brass Pre-tin	.050 ~ .110 (1.27 ~ 2.794)	A14049-ND	4.98	21.53	794016-1	A14049TR-ND	6,500	18.52/M	350628-1
Socket, 18-24AWG — Phosphor Bronze, Pre-tin	.050 ~ .110 (1.27 ~ 2.794)	—	—	—	—	A25480TR-ND	6,500	28.66/M	350628-2
Pin, 18-24AWG — Brass, Select Gold	.050 ~ .110 (1.27 ~ 2.794)	—	—	—	—	A25481TR-ND	6,000	167.10/M	350629-5
Socket, 18-24AWG — Brass, Select Gold	.050 ~ .110 (1.27 ~ 2.794)	—	—	—	—	A25482TR-ND	6,500	160.01/M	350628-5

† Tape and Reel (TR) is also available in Cut Tape.

.093” (2.36mm) Soft-Shell Commercial Pin and Socket Connectors

Product Facts:

• Polarized • Cavity Identification • Low contact-mating force • Detent and positive locking • Tin plating • Free-hanging styles • Recognized under the Component Program of Underwriters Laboratories Inc., File No. E28476 • Certified by Canadian Standards Association, File No. LR7189

AMP.093” (2.36mm) Soft-Shell Commercial Pin and Socket connectors form a total system of economical commercial-grade connectors and offer compatibility with competitive soft shells.

General Specifications:

• **Thermal Shock:** -55°C ~ 105°C • **Temperature-Humidity Cycling:** 25°C ~ 65°C at 90-95% RH • **Durability:** 50 mating cycles • **Dielectric Withstanding Voltage:** 1.0k VAC • **Insulation Resistance:** 1000 MΩ minimum initial • **Voltage Rating:** 250VAC • **Contact Rating:** 2.0-10.0 Amps, 14-24 AWG • **Housing Material:** Nylon, natural color. Flammability Rating: UL94V-2 • **Contacts**: .010” (0.25mm) stock thickness. Select Gold is 30μ” minimum gold over nickel. Phosphor bronze contact should be used in high-temperature/humidity cycling applications.

Fig. 1 — 1 Circuit In-Line

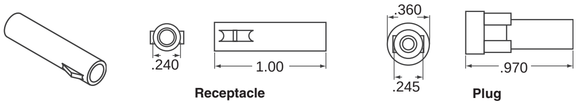

Fig. 2 — 2, 3, and 4 Circuit, In-Line

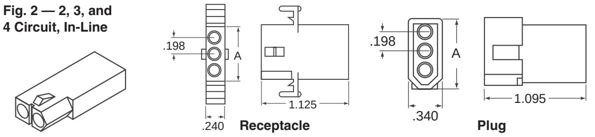

Fig. 3 — 5 Circuit, In-Line

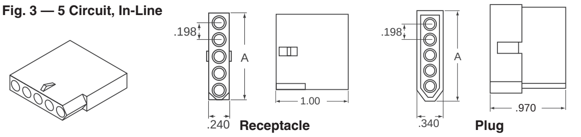

Fig. 4 — 4, 6, 9, 12, and 15 Circuit, Matrix

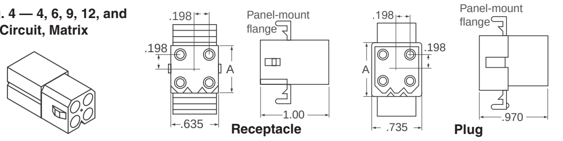

Fig. 5 — 3 Circuit, In-Line

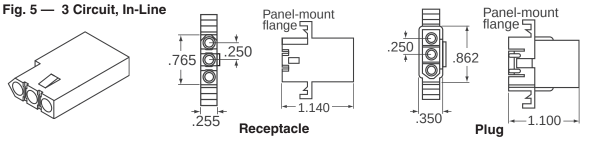

Fig. 6 — 4 Circuit, In-Line

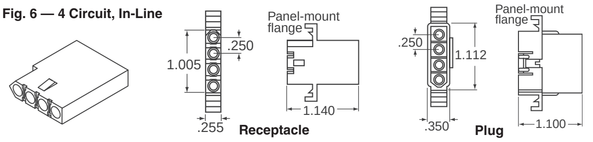

Fig. 7 — 6 Circuit, Matrix

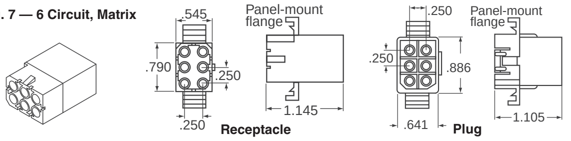

Fig. 8 — 2, 3 and 4 Circuit, In-Line

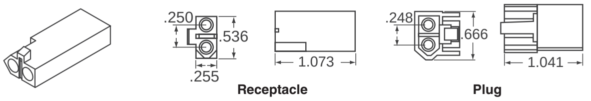

Fig.	No. of Circuits	Description	Inch (mm)	Digi-Key Part No.	Pricing 10	Pricing 50	AMP Part No.
		Free Hanging Housing — .198” (5.03mm) Centerline Spacing					
1	1	Receptacle, with Detent	—	A14050-ND	1.13	4.39	770063-1
2	2	Receptacle, with Detent	.540 (13.72)	A14051-ND	1.69	4.83	770065-1
2	3	Receptacle, with Detent	.670 (17.02)	A14052-ND	2.94	11.41	770070-1
2	4	Receptacle, with Detent	.870 (22.10)	A14053-ND	3.36	13.02	770075-1
4	4	Receptacle, Square with Detent	.443 (11.25)	A14054-ND	6.68	25.92	770843-1
3	5	Receptacle, with Detent	1.070 (27.18)	A14055-ND	3.39	9.70	770083-1
4	6	Receptacle, with Detent	.435 (11.05)	A14056-ND	3.92	15.19	770086-1
4	6	Receptacle, without Detents	.435 (11.05)	A25538-ND	3.92	15.19	770088-1
4	9	Receptacle, with Detent	.670 (17.02)	A14057-ND	4.93	19.12	770092-1
4	12	Receptacle, with Detents	.870 (22.10)	A25528-ND	5.08	19.72	770098-1
4	15	Receptacle, without Detents	1.070 (27.18)	A25529-ND	7.75	30.08	770105-1
1	1	Plug, without Mount Ears	—	A14058-ND	1.45	5.63	770064-1
2	2	Plug, without Mount Ears	.640 (16.26)	A14059-ND	3.01	8.62	770069-1
2	3	Plug, without Mount Ears	.770 (19.56)	A14060-ND	2.86	11.10	770074-1
2	4	Plug, without Mount Ears	.970 (24.64)	A14061-ND	3.19	12.36	770078-1
4	4	Plug Square, without Mount Ears	.540(13.71)	A14062-ND	10.98	42.60	770842-1
3	5	Plug, without Mount Ears	1.170 (29.72)	A14063-ND	2.60	7.45	770084-1
4	6	Plug, without Mount Ears	.535 (13.59)	A14064-ND	4.42	17.17	770090-1
4	9	Plug, without Mount Ears	.770 (19.56)	A14065-ND	4.85	18.82	770096-1
4	12	Plug, without Mount Ears	.970 (24.64)	A25536-ND	5.07	19.65	770102-1
4	15	Plug, without Mount Ears	1.170 (29.72)	A25537-ND	6.99	27.13	770107-1
		Panel-Mount — .198” (5.03mm) Centerline Spacing					
2	2	Receptacle, with Detents	.540 (13.72)	A14386-ND	2.21	8.56	770066-1
2	3	Receptacle, with Detents	.670 (17.02)	A14388-ND	3.10	12.01	770071-1
2	4	Receptacle, with Detents	.870 (22.10)	A14389-ND	3.36	13.02	770076-1
4	6	Receptacle, with Detents	.435 (11.05)	A25524-ND	12.85	49.85	770087-1
4	9	Receptacle, with Detents	.670 (17.02)	A25525-ND	5.18	20.09	770093-1
4	12	Receptacle, with Detents	.870 (22.10)	A25526-ND	10.80	41.88	770099-1
4	15	Receptacle, without Detents	1.070 (27.18)	A25527-ND	7.75	30.08	770103-1
2	2	Plug, without Mount Ears	.640 (16.26)	A14387-ND	7.01	27.19	770068-1
2	3	Plug, without Mount Ears	.770 (19.56)	A25530-ND	3.03	11.77	770073-1
2	4	Plug, without Mount Ears	.970 (24.64)	A25531-ND	3.19	12.36	770077-1
4	6	Plug, without Mount Ears	.535 (13.59)	A25532-ND	3.98	15.46	770089-1
4	9	Plug, with Mount Ears at Wire End	.770 (19.56)	A25533-ND	13.29	51.55	770095-1
4	12	Plug, without Mount Ears	.970 (24.64)	A25534-ND	12.28	47.66	770101-1
4	15	Plug, without Mount Ears	1.170 (29.72)	A25535-ND	11.96	46.42	770106-1
		Free Hanging Housing — .250” (6.35mm) Centerline Spacing					
5	3	Receptacle, In-line	—	A25771-ND	4.68	18.17	770339-1
6	4	Receptacle, In-line	—	A25519-ND	6.76	26.24	770337-1
7	6	Receptacle, Matrix	—	A25772-ND	10.89	42.24	770360-1
8	2	Receptacle, Positive Lock, In-line	—	A25513-ND	2.56	9.95	770424-1
8	3	Receptacle, Positive Lock, In-line	—	A25514-ND	4.89	18.98	770785-1
8	4	Receptacle, Positive Lock, In-line	—	A25754-ND	8.99	34.86	770784-1
5	3	Plug, In-line	—	A25774-ND	3.53	13.70	770276-1
6	4	Plug, In-line	—	A25522-ND	6.58	25.52	770336-1
7	6	Plug, Matrix	—	A25523-ND	4.75	18.43	770361-1
8	2	Plug, Positive Lock, In-line	—	A25515-ND	3.35	13.00	770425-1
8	3	Plug, Positive Lock, In-line	—	A25516-ND	5.13	19.89	770783-1
8	4	Plug, Positive Lock, In-line	—	A25755-ND	10.82	41.97	770810-1
		Panel-Mount — .250” (6.35mm) Centerline Spacing					
5	3	Receptacle, In-line	—	A25770-ND	3.46	13.41	770269-1
6	4	Receptacle, In-line	—	A25517-ND	6.76	26.24	770329-1
7	6	Receptacle, Matrix	—	A25518-ND	5.85	22.70	770372-1
5	3	Plug, In-line	—	A25773-ND	9.51	36.91	770338-1
6	4	Plug, In-line	—	A25520-ND	6.58	25.52	770330-1
7	6	Plug, Matrix	—	A25521-ND	4.94	19.15	770373-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
Tools			
Crimp Tool with Die 14-20AWG	A9818-ND	181.05	90871-1
Crimp Tool with Die 18-24AWG	A9817-ND	163.62	90872-1
PRO-CRIMPER Hand Tool without Die	A9996-ND	66.00	354940-1
Die Set 14-20AWG use with A9996	A9953-ND	145.44	90871-2
Die Set 18-24AWG use with A9996	A9952-ND	106.05	90872-2
Contact Insertion Tool	A9998-ND	18.63	91002-1
Contact Extraction Tool	A9950-ND	39.36	318837-1

Description	Ins. Dia. Range In. (mm)	Digi-Key Part No.	Loose Piece Pricing 100	Loose Piece Pricing 500	AMP Part No.	Digi-Key Part No. †	Tape and Reel Size	Tape and Reel Pricing	AMP Part No.
.093” (2.36mm) Contacts — May be used in either plug or receptacle housings.									
Pin, 18-24AWG, Brass, Pre-tin	.110 (2.79)	A14098-ND	5.03	21.75	770147-1	—	—	—	—
Socket, 18-24AWG, Brass, Pre-tin	.110 (2.79)	A14096-ND	5.03	21.75	770146-1	—	—	—	—
Pin, 18-24AWG, Brass, Select Gold	.110 (2.79)	A25775-ND	24.62	106.48	770147-5	—	—	—	—
Socket, 18-24AWG, Brass, Select Gold	.110 (2.79)	A25776-ND	21.67	93.69	770146-5	—	—	—	—
Pin, 14-20AWG, Brass, Pre-tin	.140 (3.56)	A14099-ND	5.03	21.75	770145-1	A14099TR-ND	4,000	23.44/M	350416-1
Socket, 14-20AWG, Brass, Pre-tin	.140 (3.56)	A14097-ND	5.03	21.75	770144-1	A14097TR-ND	4,000	23.44/M	350415-1
Pin, 14-20AWG, Brass, Select Gold	.140 (3.56)	A25778-ND	24.62	106.48	770145-5	A25778TR-ND	4,000	262.54/M	350416-5
Socket, 14-20AWG, Brass, Select Gold	.140 (3.56)	A25779-ND	21.67	93.69	770144-5	A25779TR-ND	4,000	253.44/M	350415-5
Socket, 14-20AWG, Phosphor Bronze, Pre-tin	.140 (3.56)	—	—	—	—	A25509TR-ND	4,000	44.06/M	350415-6
Pin, 14-20AWG, Brass, Pre-tin	.180 (4.57)	—	—	—	—	A25510TR-ND*	3,750	26.95/M	770530-1
Socket, 14-20AWG, Brass, Pre-tin	.180 (4.57)	—	—	—	—	A25511TR-ND*	3,750	26.95/M	770529-1
Pin, 14-18 or (2)18AWG, Brass, Pre-tin	.180 (4.57)	—	—	—	—	A25512TR-ND‡	1,200	78.59/M	770385-1
Socket, 14-18 or (2)18AWG, Phosphor Bronze, Pre-tin	.180 (4.57)	—	—	—	—	A25780TR-ND‡	1,200	78.59/M	770383-1

† Tape and Reel (TR) are also available in Cut Tape.

* Contact length is .875.

‡ 0.013” (.33mm) stock thickness and accept two wires, each with maximum .180” insulation diameter

(MR) Miniature Rectangular Connectors

Product Facts: • Housings positively lock to prevent accidental disengagement • Either cap or plug housing can be mounted in same rectangular panel cutout without additional hardware • Brick red UL94V-0 housings • Plug and cap design includes molded-in polarizing feature to assure proper mating • High density achieved through .165" (4.19mm) contact centerline spacing • Recognized under the Component Program of Underwriters Laboratories, Inc. File No. E28476 • Certified by Canadian Standards Association File No. LR 7189 • Commoning bars can be used to common adjacent pin contacts in any column or row. Maximum stack per pin is two. Use the mating socket housing to assemble the Commoning Bar unto the pins. Illustration is the proper insertion of the Commoning Bar.

Performance Characteristics:

- **Dielectric Withstanding Voltage:** 2.5 KVAC between adjacent circuits • **Insulation Resistance:** 1500MΩ minimum initial between adjacent circuits • **Voltage Rating:** 250VAC • **Contact Rating:** AWG 26-18 — Test Current 1-6 Amps

Fig. 1

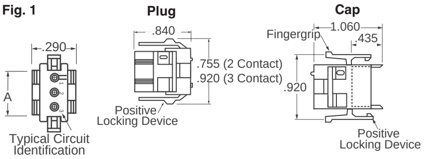

Fig. 2

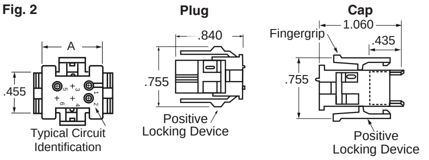

Fig. 3

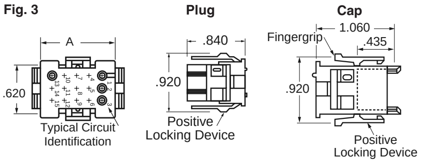

Fig. 4

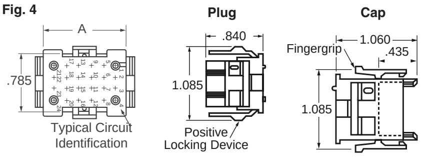

Fig. 5

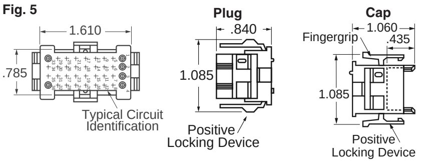

Fig. 6 - Strain Relief

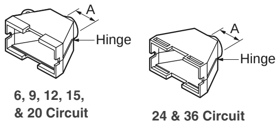

Fig. 7 - Grommet

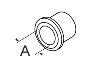

Fig. 8

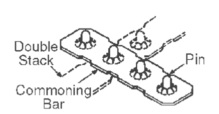

Fig. 9

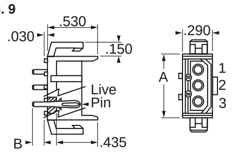

Fig. 10

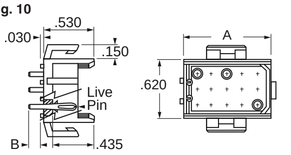

Fig. 11

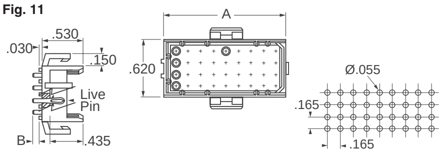

Fig. 12 - Pin

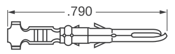

Fig. 13 - Socket

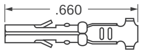

Fig. 14

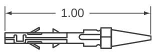

Fig. 15

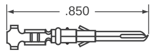

Fig. 16 Keying Plug

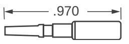

Fig.	No. of Pos.	Type	Dimension A (Inch)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
			In-Line Housing (Contacts Sold Separately)				
1	2	Cap	.455	A14100-ND	.56	12.58	1-640507-0
	3	Cap	.620	A14101-ND	.82	18.50	1-640508-0
	2	Plug	.455	A14110-ND	.40	9.03	1-640517-0
	3	Plug	.620	A14111-ND	.81	18.23	1-640518-0
			Matrix Housing (Contacts Sold Separately)				
2	4	Cap	.455	A14102-ND	.88	19.97	1-640509-0
	6	Cap	.620	A14103-ND	1.00	22.59	1-640510-0
	4	Plug	.455	A14112-ND	.75	16.96	1-640519-0
	6	Plug	.620	A14113-ND	.65	14.74	1-640520-0
3	9	Cap	.620	A14104-ND	1.07	24.19	1-640511-0
	12	Cap	.785	A14105-ND	1.19	26.93	1-640512-0
	15	Cap	.950	A14106-ND	1.31	29.65	1-640513-0
	9	Plug	.620	A14114-ND	.97	21.90	1-640521-0
	12	Plug	.785	A14115-ND	1.18	26.80	1-640522-0
	15	Plug	.950	A14116-ND	1.27	28.75	1-640523-0
4	20	Cap	.950	A14107-ND	2.07	46.87	1-640514-0
	24	Cap	1.115	A14108-ND	2.20	49.84	1-640515-0
	20	Plug	.950	A14117-ND	2.07	46.92	1-640524-0
	24	Plug	1.115	A14118-ND	2.21	49.98	1-640525-0
5	36	Cap	—	A14109-ND	2.76	62.46	1-640516-0
	36	Plug	—	A14119-ND	2.29	51.77	1-640526-0

Fig.	No. of Pos.	Dimension A (Inch)	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
		Strain Relief (Grommet - Sold Separately)				
6	6	.374	A14120-ND	2.34	50.52	350373-1
	9	.420	A14121-ND	1.77	38.08	350522-1
	12	.420	A14122-ND	2.23	48.01	350374-1
	15	.420	A14123-ND	3.39	72.96	350523-1
	20	.560	A14124-ND	3.50	75.42	480634-1
	24	.560	A14125-ND	3.58	77.07	350524-1
	36	.560	A14126-ND	4.70	101.32	480594-1
		Adapting Grommet (Flexible PVC - Black)				
7	6	.156	A14130-ND	1.30	28.04	1-350377-0
		.218	A14131-ND	1.54	33.22	1-350376-0
		.296	A14132-ND	1.24	26.80	1-350375-0
	9, 12, 15	.218	A14133-ND	1.27	27.42	1-350378-1
		.250	A14134-ND	1.26	27.19	1-350379-1
	20, 24, 36	.437	A14136-ND	1.38	29.81	1-380935-0
		.375	A14137-ND	1.32	28.54	1-380936-0
		.312	A14138-ND	1.89	40.81	1-380937-0

Fig.	Description	Length	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
		Commoning Bar				
8	2 Circuit, Brass, Pre-tin	.305	A25449-ND	.10	2.10	350020-1
	3 Circuit, Brass, Pre-tin	.470	A25450-ND	.11	2.35	350021-1
	4 Circuit, Brass, Pre-tin	.635	A25451-ND	.11	2.35	350022-1

Fig.	No. of Pos.	Plating	Dimension (Inch) A	Dimension (Inch) B	Digi-Key Part No.	Pricing 1	Pricing 25	AMP Part No.
			PCB Board Vertical Headers, .062" (1.57mm) (Mate with Plugs) Board Thickness					
9	2	Tin	.455	.120	A14200-ND	.84	18.79	640497-1
	2	Gold	.455	.120	A14201-ND	2.35	52.92	640497-2
	3	Tin	.620	.120	A14202-ND	1.25	28.03	640498-1
	3	Gold	.620	.120	A14203-ND	3.49	78.44	640498-2
	4	Tin	.455	.120	A14204-ND	2.29	51.61	640499-1
	6	Tin	.620	.120	A14206-ND	2.28	51.40	640500-1
	6	Gold	.620	.120	A14207-ND	5.98	134.46	640500-2
10	9	Tin	.620	.120	A14208-ND	2.97	66.76	640501-1
	9	Gold	.620	.120	A14209-ND	8.29	186.52	640501-2
	12	Tin	.785	.120	A14210-ND	3.81	85.80	640502-1
	12	Gold	.785	.120	A14211-ND	9.63	216.66	640502-2
	15	Tin	.950	.120	A14212-ND	4.67	104.97	640503-1
	15	Gold	.950	.120	A14213-ND	13.04	293.36	640503-2
11	20	Tin	.950	.120	A14214-ND	6.06	136.25	640504-1
	20	Gold	.950	.120	A14215-ND	17.19	386.82	640504-2
	24	Tin	1.115	.120	A14216-ND	6.74	151.65	640505-1
	24	Gold	1.115	.120	A14217-ND	19.08	429.33	640505-2
	36	Tin	1.610	.120	A14218-ND	10.92	245.68	640506-1
	36	Gold	1.610	.120	A14219-ND	36.22	814.89	640506-2
			PCB Board Vertical Headers, .120" (3.05mm) (Mate with Plugs) Board Thickness					
9	2	Tin	.455	.180	A14220-ND	1.89	42.62	640497-3
	2	Gold	.455	.180	A14221-ND	2.35	52.92	640497-4
	3	Tin	.620	.180	A14222-ND	2.00	44.96	640498-3
	3	Gold	.620	.180	A14223-ND	3.49	78.44	640498-4
	4	Tin	.455	.180	A14224-ND	2.33	52.53	640499-3
	4	Gold	.455	.180	A14225-ND	4.35	97.96	640499-4
	6	Tin	.620	.180	A14226-ND	2.28	51.40	640500-3
	6	Gold	.620	.180	A14227-ND	5.98	134.46	640500-4
10	9	Tin	.620	.180	A14228-ND	2.97	66.76	640501-3
	9	Gold	.620	.180	A14229-ND	6.82	153.39	640501-4
	12	Tin	.785	.180	A14230-ND	3.81	85.80	640502-3
	12	Gold	.785	.180	A14231-ND	10.75	241.88	640502-4
	15	Tin	.950	.180	A14232-ND	4.67	104.97	640503-3
	15	Gold	.950	.180	A14233-ND	13.08	294.41	640503-4
11	20	Tin	.950	.180	A14234-ND	6.06	136.25	640504-3
	20	Gold	.950	.180	A14235-ND	17.19	386.82	640504-4
	24	Tin	1.115	.180	A14236-ND	6.74	151.65	640505-3
	24	Gold	1.115	.180	A14237-ND	17.27	388.65	640505-4
	36	Tin	1.610	.180	A14238-ND	10.92	245.68	640506-3
	36	Gold	1.610	.180	A14239-ND	36.22	814.89	640506-4

Fig.	Description	Ins. Dia. Range Inches	Digi-Key Part No.	Pricing 25	Pricing 100	AMP Part No.
	Contacts: Pins (for Caps) and Sockets (for Plugs)					
12	Live Split Pin, 24-26AWG, Phos. Brz., Pre-tin	.025-.050	A25440-ND	6.95	17.14	640579-1
13	Std. Socket, 24-26AWG, Phos. Brz., Pre-tin	.025-.050	A25441-ND	6.67	16.45	794001-1
12	Live Split Pin, 24-26AWG, Phos. Brz., Select Gold	.025-.050	A25444-ND	27.45	67.72	640579-2
13	Std. Socket, 24-26AWG, Phos. Brz., Select Gold	.025-.050	A25445-ND	26.40	65.12	794001-2
12	Live Split Pin, 18-26AWG, Phos. Brz., Pre-tin	.050-.115	A14199-ND	4.93	12.15	640545-1
13	Std. Socket, 18-26AWG, Phos. Brz., Pre-tin	.050-.115	A14197-ND	6.54	16.13	641300-1
12	Live Split Pin, 18-26AWG, Phos. Brz., Select Gold	.050-.115	A14198-ND	14.81	36.52	640545-2
13	Std. Socket, 18-26AWG, Phos. Brz., Select Gold	.050-.115	A14196-ND	13.64	33.63	641300-2
14	Solder Tail Socket, Phos. Brz., Pre-tin	—	A25447-ND*	7.34	18.10	350838-1
15	Grounding Pin, Phos. Brz., Pre-tin	.050-.115	A25442-ND	6.95	17.14	640580-1
	Grounding Pin, Phos. Brz., Select Gold	.050-.115	A25446-ND	27.77	68.50	640580-2
	Keying Plug					
16	—		A14195-ND	—	53.27	350591-1
	Tools					
	Die Set MR, Use with A9996		A9949-ND	148.47/1		58514-2
	Pro-Crimper Hand Tool		A9996-ND	66.00/1		354940-1
	Extraction Tool		A9954-ND	17.06/1		455822-2
	Certi-Crimp Tool MR		A9938-ND	551.57/1		91526-1
	Contact Insertion Tool		A1444-ND	17.06/1		455830-1
	Pro-Crimper II Hand Tool		A25448-ND	179.99/1		58514-1

* Recommended for use with MR Socket Housings.

3M Board Mount Interconnect Products

Finish Options: • 10µ" selective gold over 50µ" nickel on contact post; 100µ" 90/10 solder plate on tail portion • 100µ" 90/0 solder plate on posts and tails

2400 Series: • Material: Glass filled polyester • Flammability: UL94V-O • Color: Gray • Phosphor bronze plating • 100µ" nickel underplating • Gold wiping area • 200µ" 60/40 tin on solder tails • Current Rating: 3 Amps • Withstanding Voltage: 100VAC • Temperature Rating: -55°C ~ 105°C • UL File No. E88080, CSA File No. LR 40971

Fig. 1 – Straight, Single Row Male

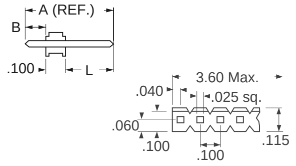

Fig. 2 – Straight, Dual Row Male (.1" x .1" Matrix)

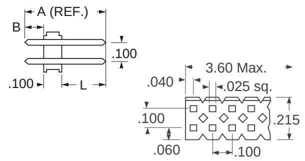

Fig. 3 – Right Angle, Single Row Male

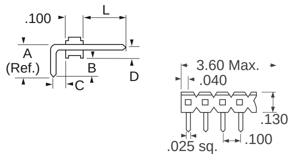

Fig. 4 – Right Angle, Dual Row Male (.1" x .1" Matrix)

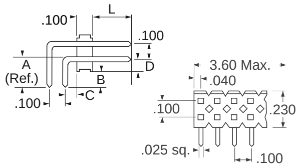

Fig. 5 – Right Angle, Single Row Polarized Male (36 Positions)

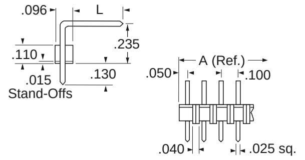

Fig. 6 – Straight, Single Row Female

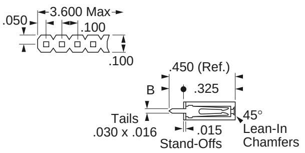

Fig. 7 – Straight, Dual Row Female (.1" x .1" Matrix)

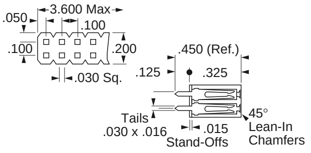

Fig. 8 – Shorting Jumpers

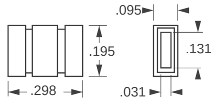

36 Pin Headers

Fig.	Plating	No. of Pins	Dimensions (Inch) L	A(ref)	B	C	D	Digi-Key Part No.	Price Each 1	10	100
					Straight, Single Row Male						
1	Solder	36	.235	.545	.210	—	—	929834-02-36-ND	1.80	1.61	1.33
			.235	.745	.410	—	—	929834-03-36-ND	2.17	1.94	1.60
			.235	.845	.510	—	—	929834-04-36-ND	2.39	2.15	1.77
			.235	.945	.610	—	—	929834-05-36-ND	2.42	2.17	1.79
			.235	1.245	.910	—	—	929834-07-36-ND	2.76	2.48	2.04
	Gold	36	.235	.480	.145	—	—	929647-09-36-ND	3.05	2.73	2.25
			.235	.545	.210	—	—	929647-02-36-ND	3.31	2.96	2.44
			.235	.745	.410	—	—	929647-03-36-ND	4.10	3.68	3.03
			.235	.845	.510	—	—	929647-04-36-ND	5.27	4.72	3.89
			.235	.945	.610	—	—	929647-05-36-ND	4.87	4.37	3.60
			.235	1.245	.910	—	—	929647-07-36-ND	5.67	5.08	4.18
	Solder	36	.295	.535	.130	—	—	929400-01-36-ND	1.80	1.61	1.33
	Gold	36	.295	.535	.130	—	—	929450-01-36-ND	3.19	2.86	2.36
					Straight, Dual Row Male						
2	Solder	72	.235	.480	.145	—	—	929836-09-36-ND	3.39	3.04	2.50
			.235	.545	.210	—	—	929836-02-36-ND	2.94	2.63	2.17
			.235	.645	.310	—	—	929836-08-36-ND	3.79	3.40	2.80
			.235	.845	.510	—	—	929836-04-36-ND	3.88	3.47	2.86
			.235	.945	.610	—	—	929836-05-36-ND	3.68	3.29	2.71
	Gold	72	.235	.480	.145	—	—	929665-09-36-ND	4.93	4.42	3.64
			.235	.545	.210	—	—	929665-02-36-ND	5.36	4.80	3.95
			.235	.645	.310	—	—	929665-08-36-ND	5.79	5.18	4.27
			.235	.745	.410	—	—	929665-03-36-ND	6.61	5.92	4.88
			.235	.845	.510	—	—	929665-04-36-ND	8.49	7.60	6.26
			.235	.945	.610	—	—	929665-05-36-ND	9.15	8.19	6.75
	Solder	72	.318	.593	.175	—	—	929710-10-36-ND	3.08	2.76	2.27
			.318	.828	.410	—	—	929710-03-36-ND	4.39	3.93	3.24
	Gold	72	.318	.593	.175	—	—	929715-10-36-ND	5.64	5.05	4.16
			.318	.828	.410	—	—	929715-03-36-ND	7.35	6.58	5.42
					Right Angle, Single Row Male						
3	Solder	36	.235	.185	.110	.070	.075	929835-01-36-ND	1.82	1.64	1.35
					Right Angle, Dual Row Male						
4	Solder	72	.235	.220	.145	.070	.075	929838-04-36-ND	3.76	3.37	2.78
			.235	.480	.405	.070	.075	929838-02-36-ND	3.79	3.40	2.80
	Gold	72	.235	.220	.145	.070	.075	929667-04-36-ND	7.07	6.33	5.21
			.235	.480	.405	.070	.075	929667-02-36-ND	8.49	7.60	6.26
					Right Angle, Single Row Polarized Male						
5	Solder	36	.295	3.600	—	—	—	929500-01-36-ND	2.00	1.79	1.47
	Gold	36	.295	3.600	—	—	—	929550-01-36-ND	3.96	3.55	2.92
					Straight, Single Row Female						
6	Solder	36	—	—	.125	—	—	929974-01-36-ND	2.57	2.30	1.89
	Gold	36	—	—	.125	—	—	929850-01-36-ND	3.31	2.96	2.44
					Straight, Dual Row Female						
7	Solder	72	—	—	—	—	—	929975-01-36-ND	4.45	3.98	3.28
	Gold	72	—	—	—	—	—	929852-01-36-ND	6.33	5.67	4.67
					Shorting Jumpers						
8	Solder Plated.							929950-00-ND		2.29/10	
	10µ Gold Plated							929955-06-ND		2.70/10	
	30µ Gold Plated							929957-08-ND		3.12/10	

1-35 Pin Headers

Step 1 Digi-Key Part No. *	Step 2 Base Price	Step 3 Pin Adder
	Straight, Single Row Male	
929834-02-XX-ND	.51	.04
929834-03-XX-ND	.90	.04
929834-04-XX-ND	.78	.05
929834-05-XX-ND	.82	.05
929834-07-XX-ND	.83	.06
929647-09-XX-ND	1.13	.06
929647-02-XX-ND	1.06	.07
929647-03-XX-ND	1.55	.08
929647-04-XX-ND	1.74	.11
929647-05-XX-ND	1.66	.10
929647-07-XX-ND	2.16	.11
929400-01-XX-ND	.51	.04
929450-01-XX-ND	1.28	.06
	Straight, Dual Row Male	
929836-09-XX-ND	1.49	.06
929836-02-XX-ND	1.37	.05
929836-08-XX-ND	1.57	.07
929836-04-XX-ND	1.66	.07
929836-05-XX-ND	1.45	.07
929665-09-XX-ND	1.73	.10
929665-02-XX-ND	2.18	.10
929665-08-XX-ND	2.29	.11
929665-03-XX-ND	2.46	.13
929665-04-XX-ND	3.05	.17
929665-05-XX-ND	3.40	.18
929710-10-XX-ND	1.16	.06
929710-03-XX-ND	1.85	.08
929715-10-XX-ND	2.13	.11
929715-03-XX-ND	2.89	.14
	Right Angle, Single Row Male	
929835-01-XX-ND	.53	.04
	Right Angle, Dual Row Male	
929838-04-XX-ND	1.54	.07
929838-02-XX-ND	1.57	.07
929667-04-XX-ND	2.59	.14
929667-02-XX-ND	3.05	.17
	Right Angle, Single Row Polarized Male	
929500-01-XX-ND	.72	.04
929550-01-XX-ND	1.40	.08
	Straight, Single Row Female	
929974-01-XX-ND	.97	.05
929850-01-XX-ND	1.06	.07
	Straight, Dual Row Female	
929975-01-XX-ND	1.57	.09
929852-01-XX-ND	2.51	.12

* Replace XX in the Digi-Key part number with your desired number of pins per row.

HOW TO ORDER:
4 EASY STEPS

How do I order a 929834-02 header with 16 pins?

Call Digi-Key where you'll happily receive the price,
or
Determine the cost yourself.

929 ☐☐☐ - ☐☐ - ☐☐ - ND

Base Part Number

Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate "Base Price" of your selected part number (refer to chart).

Step 3. Multiply the number of pins you desire by the "Pin Adder" of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1. 929834-02-16-ND
Step 2. .51
Step 3. 16 x .04 = .64
Step 4. Your Cost = $1.15

Your Digi-Key Part Number:

Step 1. 929☐☐☐-☐☐-☐☐-ND
Step 2. ______
Step 3. ____ x ____ = ______
Step 4. Your Cost = $ ______

***NOTE:* For quantities of 10 or more, call DIGI-KEY.**

AMPMODU MT Connectors

IDC CRIMP TYPE CONNECTOR/COVER FEATURES: • Receptacle connectors .100" (2.54mm) centers • Housings preloaded with standard and high pressure contacts • Insulation Diameter: .050" (1.27mm) • Mating Post Length: .222" to .273" (5.64mm to 6.94mm) maximum • Housing and Cover: Black thermoplastic, flame retardant • Contacts: Copper alloy

RECEPTACLE HOUSING FEATURES: • Choice of three contact mating pressures • Receptacles mate with .025" (.64mm) square or round posts • Capable of connecting up to 100 wires simultaneously • Black thermoplastic or glass-filled nylon • Available in single and double row configurations in .100" (2.54mm) centerline spacing • Stamped: Cavity ID, AMP part number and date code stamped on housing where size permits. Unstamped: No marking on housing

Fig. 1

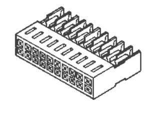

Fig. 2

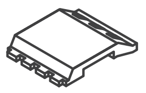

Fig. 3

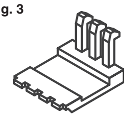

Fig. 4

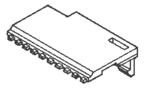

Use with IDC Crimp Type Housing - Fig 1

Fig. 5

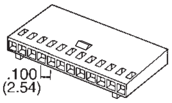

Fig. 6

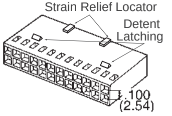

Fig. 7

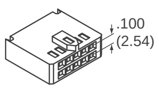

No. of Positions	Digi-Key Part No.	Pricing		AMP Part No.
		1	25	
IDC CRIMP TYPE — HOUSING AND COVERS				
26-30 AWG Housing With Standard Contacts — Fig. 1				
6	A25789-ND	2.23	50.40	102393-1
8	A25790-ND	2.84	64.20	102393-2
10	A25791-ND	3.29	74.40	102393-3
12	A25793-ND	3.92	88.80	102393-4
14	A25795-ND	4.53	102.60	102393-5
16	A25797-ND	6.07	137.40	102393-6
18	A25799-ND	8.27	187.20	102393-7
20	A25801-ND	6.44	145.80	102393-8
24	A28321-ND	7.82	177.00	1-102393-0
26	A28697-ND	6.70	151.80	1-102393-1
28	A28700-ND	12.85	291.00	1-102393-2
30	A28702-ND	9.75	220.80	1-102393-3
34	A28705-ND	11.00	249.00	1-102393-5
40	A28706-ND	9.67	219.00	1-102393-8
50	A28708-ND	11.74	265.80	2-102393-3
60	A28710-ND	13.83	313.20	2-102393-8
22-26 AWG Housing With Standard Contacts — Fig. 1				
6	A3047-ND	2.41	54.60	102398-1
8	A3048-ND	3.02	68.40	102398-2
10	A3049-ND	3.29	74.40	102398-3
12	A3050-ND	3.92	88.80	102398-4
14	A3051-ND	4.53	102.60	102398-5
16	A3052-ND	4.64	105.00	102398-6
18	A3053-ND	4.77	108.00	102398-7
20	A3054-ND	6.44	145.80	102398-8
24	A3055-ND	7.82	177.00	1-102398-0
26	A28698-ND	6.07	137.40	1-102398-1
28	A28701-ND	9.09	205.80	1-102398-2
30	A28703-ND	9.75	220.80	1-102398-3
34	A3057-ND	11.00	249.00	1-102398-5
40	A3058-ND	9.67	219.00	1-102398-8
50	A3059-ND	11.74	265.80	2-102398-3
60	A3060-ND	13.83	313.20	2-102398-8
64	A3061-ND	20.78	470.40	3-102398-0
22-26 AWG Housing With High Pressure Contacts				
6	A28711-ND	2.41	54.60	102694-1
8	A28712-ND	2.84	64.20	102694-2
10	A28713-ND	3.92	88.80	102694-3
12	A28714-ND	3.92	88.80	102694-4
14	A28715-ND	6.39	144.60	102694-5
16	A28716-ND	5.22	118.20	102694-6
20	A28717-ND	6.44	145.80	102694-8
20-22 AWG Housing With Standard Contacts — Fig. 1				
10	A25792-ND	3.29	74.40	102448-3
12	A25794-ND	3.92	88.80	102448-4
14	A25796-ND	4.53	102.60	102448-5
16	A25798-ND	5.22	118.20	102448-6
18	A25800-ND	5.83	132.00	102448-7
20	A25762-ND	6.44	145.80	102448-8
24	A28696-ND	7.82	177.00	1-102448-0
26	A28699-ND	6.70	151.80	1-102448-1
30	A28704-ND	9.75	220.80	1-102448-3
40	A28707-ND	12.59	285.00	1-102448-8
50	A28709-ND	11.74	265.80	2-102448-3
A2031-ND	Manual Pistol Grip Tool - use with Head Assembly		$58.28	
A2040-ND	Head Assembly Tool for AMP MT Connector		$258.30	
A28718-ND	Head Assembly Tool		$1020.60	
Low Profile Non-Polarizing — Front Cover Fig. 2 (designed for shielded connectors)				
6	A28719-ND	.34	7.77	102541-1
8	A28720-ND	.60	13.51	102541-2
10	A28721-ND	.34	7.77	102541-3
12	A28722-ND	.57	12.89	102541-4
14	A28723-ND	.58	13.12	102541-5
16	A28724-ND	.43	9.80	102541-6
18	A28725-ND	1.45	32.85	102541-7
20	A28726-ND	1.34	30.24	102541-8
24	A28727-ND	.65	14.70	1-102541-0
26	A28728-ND	.99	22.46	1-102541-1
28	A28729-ND	1.16	26.36	1-102541-2
30	A28730-ND	.81	18.38	1-102541-3
34	A28731-ND	1.02	23.00	1-102541-5
40	A28732-ND	1.94	43.86	1-102541-8
50	A29145-ND	1.53	34.59	2-102541-3
60	A28733-ND	2.16	48.86	2-102541-8
64	A28734-ND	2.44	55.29	3-102541-0
Shielding & Non-Shielding - Back Cover — Fig. 3				
6	A28735-ND	.34	7.77	102536-1
8	A28736-ND	.96	21.78	102536-2
10	A28737-ND	.38	8.64	102536-3
12	A28738-ND	.97	21.98	102536-4
14	A28739-ND	.98	22.08	102536-5
16	A28740-ND	1.05	23.73	102536-6
18	A28741-ND	.97	22.06	102536-7
20	A28742-ND	.54	12.25	102536-8
24	A28743-ND	1.11	25.22	1-102536-0
26	A28744-ND	.70	15.93	1-102536-1
28	A28745-ND	1.16	26.35	1-102536-2
30	A28746-ND	1.19	26.84	1-102536-3
34	A28747-ND	1.24	28.04	1-102536-5
40	A28748-ND	1.79	40.51	1-102536-8
50	A28749-ND	1.92	43.39	2-102536-3
60	A28750-ND	2.04	46.25	2-102536-8
64	A28751-ND	2.09	47.40	3-102536-0
Standard Profile Covers — Fig. 4 (2 required per connector)				
6	A3062-ND	2.23/2	50.52/50	102396-1
8	A3063-ND	2.62/2	59.38/50	102396-2
10	A3064-ND	1.32/2	29.97/50	102396-3
12	A3065-ND	1.99/2	45.12/50	102396-4
14	A3066-ND	4.95/2	112.15/50	102396-5
16	A3067-ND	1.99/2	45.08/50	102396-6
18	A3068-ND	1.24/2	27.98/50	102396-7
20	A3069-ND	3.80/2	86.02/50	102396-8
24	A3070-ND	4.23/2	95.87/50	1-102396-0
26	A28752-ND	3.10/2	70.25/50	1-102396-1
30	A28753-ND	2.29/2	51.84/50	1-102396-3
34	A3072-ND	2.60/2	58.82/50	1-102396-5
40	A3073-ND	3.05/2	69.12/50	1-102396-8
50	A3074-ND	5.41/2	122.54/50	2-102396-3
64	A3076-ND	3.46/2	78.42/50	3-102396-0
Keying Plug	A3077-ND	1.95/10	8.83/50	86286-1
SINGLE ROW HOUSING — NON-POLARIZED FIG. 5 (order contacts separately)				
Stamped				
2	A3011-ND	1.08	24.34	87499-3
3	A3012-ND	.76	17.24	87499-5
4	A3013-ND	.67	15.21	87499-7
5	A3014-ND	.54	12.17	87499-9
6	A3015-ND	.67	15.21	1-87499-1
7	A3016-ND	.90	20.28	87499-1
8	A3017-ND	.74	16.87	1-87499-3
9	A3018-ND	.94	21.30	1-87499-5
10	A3019-ND	.85	19.27	1-87499-7
11	A3020-ND	2.02	45.63	1-87499-9
12	A3021-ND	.90	20.28	2-87499-1
13	A3022-ND	1.21	27.38	2-87499-3
14	A3023-ND	1.08	24.34	2-87499-5
15	A3024-ND	1.12	25.35	2-87499-7
16	A3025-ND	1.16	26.37	2-87499-9
20	A3029-ND	1.39	31.44	3-87499-7
Unstamped				
1	A26962-ND	.36	8.11	7-87499-2
2	A26963-ND	.40	9.13	87499-4
3	A26964-ND	.45	10.14	87499-6
4	A26965-ND	.49	11.15	87499-8
5	A26966-ND	.54	12.17	1-87499-0
6	A26967-ND	.58	13.18	1-87499-2
7	A26968-ND	.72	16.23	87499-2
8	A26969-ND	.72	16.23	1-87499-4
9	A26970-ND	.81	18.26	1-87499-6
10	A26971-ND	.81	18.26	1-87499-8
11	A26972-ND	1.79	40.56	2-87499-0
13	A26974-ND	1.03	23.32	2-87499-4
14	A26975-ND	.99	22.31	2-87499-6
15	A26976-ND	1.08	24.34	2-87499-8
16	A26977-ND	2.37	53.75	3-87499-0
18	A3027-ND	1.21	27.38	3-87499-4
20	A26978-ND	1.30	29.41	3-87499-8
22	A26979-ND	1.43	32.45	4-87499-2
26	A26980-ND	1.75	39.55	5-87499-0
30	A26981-ND	2.02	45.63	5-87499-8
SINGLE ROW HOUSING — POLARIZED FIG. 5 (order contacts separately)				
Stamped with Detent Latching				
3	A26982-ND	.36	8.11	102241-1
4	A26983-ND	.40	9.13	102241-2
5	A26984-ND	.45	10.14	102241-3
6	A26985-ND	.49	11.15	102241-4
7	A26986-ND	.54	12.17	102241-5
8	A26987-ND	.58	13.18	102241-6
9	A26988-ND	.63	14.20	102241-7
10	A26989-ND	.72	16.23	102241-8
12	A26990-ND	.81	18.26	1-102241-0
14	A26991-ND	.90	20.28	1-102241-2
15	A26992-ND	1.03	23.32	1-102241-3
16	A26993-ND	1.25	28.40	1-102241-4
18	A26994-ND	1.30	29.41	1-102241-6
20	A26995-ND	1.30	29.40	1-102241-8
22	A26996-ND	1.39	31.44	2-102241-0
DOUBLE ROW HOUSING — NON-POLARIZED Without Locator/Latches FIG. 6 (order contacts separately)				
Stamped, Housing Height is .600" (15.24mm)				
4	A26998-ND	1.30	29.41	5-87456-0
6	A26999-ND	1.34	30.42	87456-2
10	A3034-ND	1.43	32.45	87456-6
12	A3035-ND	1.52	34.48	87456-8
14	A3036-ND	1.57	35.49	1-87456-0
16	A3037-ND	1.66	37.52	1-87456-2
18	A3038-ND	2.37	53.75	1-87456-4
20	A3039-ND	1.97	44.62	1-87456-6
24	A3040-ND	2.55	57.80	2-87456-0
26	A3041-ND	2.33	52.73	2-87456-2
28	A3042-ND	2.55	57.80	2-87456-4
30	A25819-ND	3.05	68.96	2-87456-6
34	A3043-ND	3.09	69.97	3-87456-0
40	A3044-ND	3.49	79.10	3-87456-6
50	A3045-ND	4.21	95.33	4-87456-0
60	A3046-ND	4.66	105.60	5-87456-2
Unstamped, Housing Height is .600" (15.24mm)				
2	A26997-ND	.81	18.26	5-87456-3
4	A3031-ND	1.12	25.35	4-87456-9
6	A3032-ND	1.21	27.38	87456-1
8	A3033-ND	1.30	29.41	87456-3
10	A25804-ND	1.34	30.42	87456-5
12	A25806-ND	1.39	31.44	87456-7
14	A25807-ND	1.43	32.45	87456-9
16	A25809-ND	1.48	33.47	1-87456-1
18	A25811-ND	2.15	48.68	1-87456-3
20	A25812-ND	1.88	42.59	1-87456-5
22	A25814-ND	2.28	51.72	1-87456-7
24	A25815-ND	2.06	46.65	1-87456-9
26	A25816-ND	2.19	49.69	2-87456-1
28	A25818-ND	2.33	52.73	2-87456-3
30	A25820-ND	2.78	62.87	2-87456-5
34	A25821-ND	2.73	61.86	2-87456-9
38	A25822-ND	3.14	70.99	3-87456-3
40	A25823-ND	3.40	77.07	3-87456-5
50	A25825-ND	4.17	94.31	3-87456-9
54	A25826-ND	4.39	99.38	4-87456-5
60	A25827-ND	4.61	104.40	5-87456-1
Keying Plug	A25829-ND	.14	3.07	87077-2
Stamped, Housing Height is .645" (16.38mm)				
26	A25817-ND	5.62	127.20	86177-4
Unstamped, Housing Height is .645" (16.38mm)				
6	A25802-ND	4.88	110.40	1-86177-8
10	A25805-ND	4.96	112.20	1-86177-2
14	A25808-ND	5.04	114.00	1-86177-4
16	A25810-ND	5.17	117.00	1-86177-5
20	A25813-ND	5.30	120.00	86177-1
40	A25824-ND	7.74	175.20	1-86177-1
Keying Plug	A25828-ND	.15	3.45	87077-1
DOUBLE ROW HOUSING — POLARIZED FIG. 6 (order contacts separately)				
Stamped				
6	A25830-ND	1.21	27.38	87977-1
8	A25832-ND	1.39	31.44	87977-2
10	A25834-ND	1.48	33.47	87977-3
12	A25836-ND	1.52	34.48	87977-4
20	A25841-ND	2.39	54.00	87977-8
24	A25843-ND	2.33	52.73	1-87977-0
26	A25845-ND	2.87	64.90	1-87977-1
Unstamped				
6	A25831-ND	1.12	25.35	2-87977-8
8	A25833-ND	1.88	42.59	2-87977-9
10	A25835-ND	1.97	44.62	3-87977-0
12	A25837-ND	2.06	46.65	3-87977-1
14	A25838-ND	2.15	48.68	3-87977-2
16	A25839-ND	2.19	49.69	3-87977-3
18	A25840-ND	2.24	50.71	3-87977-4
20	A25842-ND	2.24	50.71	3-87977-5
24	A25844-ND	2.28	51.72	3-87977-7

(Continued)

tyco Electronics AMP

AMPMODU MT Connectors *(Cont.)*

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
26	A25846-ND	2.64	59.83	3-87977-8
40	A25847-ND	3.22	73.01	4-87977-5
Stamped with Detent Latching, without Strain Relief				
6	A25848-ND	1.30	29.41	87631-2
8	A25850-ND	1.39	31.44	87631-4
10	A25852-ND	1.48	33.47	87631-6
12	A25855-ND	1.61	36.51	87631-8
14	A25858-ND	1.70	38.54	1-87631-0
16	A25861-ND	1.88	42.59	1-87631-2
18	A25864-ND	2.02	45.63	1-87631-4
20	A25867-ND	2.19	49.69	1-87631-6
24	A25871-ND	2.51	56.79	2-87631-0
26	A25874-ND	2.55	57.80	2-87631-2
28	A25877-ND	2.73	61.86	2-87631-4
30	A25879-ND	2.87	64.90	2-87631-6
32	A25882-ND	2.96	66.93	2-87631-8
34	A25885-ND	3.18	72.00	3-87631-0
40	A25888-ND	3.49	79.10	3-87631-6
50	A25892-ND	4.30	97.35	4-87631-2
60	A25895-ND	4.88	110.40	5-87631-2
Unstamped with Detent Latching, without Strain Relief				
6	A25849-ND	1.12	25.35	87631-1
8	A25851-ND	1.30	29.41	87631-3

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
10	A25853-ND	1.34	30.42	87631-5
12	A25856-ND	1.43	32.45	87631-7
14	A25859-ND	1.48	33.47	87631-9
16	A25862-ND	1.70	38.54	1-87631-1
18	A25865-ND	1.66	37.62	1-87631-3
20	A25868-ND	2.11	47.66	1-87631-5
22	A25870-ND	2.28	51.72	1-87631-7
24	A25872-ND	2.33	52.73	1-87631-9
26	A25875-ND	2.37	53.75	2-87631-1
28	A25878-ND	2.64	59.83	2-87631-3
30	A25880-ND	2.69	60.84	2-87631-5
32	A25883-ND	2.82	63.89	2-87631-7
34	A25886-ND	2.91	65.92	2-87631-9
40	A25889-ND	3.22	73.01	3-87631-5
44	A25891-ND	3.49	79.10	3-87631-9
50	A25893-ND	3.76	85.20	4-87631-1
60	A25896-ND	4.82	109.20	5-87631-1
66	A25898-ND	5.09	115.20	5-87631-3
Stamped with Detent Latching and Strain Relief				
10	A25854-ND	2.86	64.76	87922-1
12	A25857-ND	2.90	65.77	87922-2
14	A25860-ND	2.86	64.80	87922-3
16	A25863-ND	3.26	73.87	87922-4
18	A25866-ND	5.17	117.00	87922-5
20	A25869-ND	3.75	85.00	87733-1

No. of Positions	Digi-Key Part No.	Pricing 1	25	AMP Part No.
24	A25873-ND	4.02	91.07	87733-3
26	A25876-ND	4.07	92.08	87733-4
30	A25881-ND	4.74	107.40	87733-6
32	A25884-ND	4.82	109.20	87733-7
34	A25887-ND	4.85	109.80	87733-8
40	A25890-ND	5.09	115.20	1-87733-1
50	A25894-ND	5.70	129.00	1-87733-4
60	A25897-ND	6.28	142.20	1-87733-7
A25899-ND Strain Relief, 10 thru 18 positions ....$.56				
A25900-ND Strain Relief, ≥20 positions $1.42				
Unstamped, Center Polarized — Fig. 7				
10	A25901-ND	1.52	34.48	102387-1
14	A25902-ND	1.61	36.51	102387-2
16	A25903-ND	1.88	42.59	102387-3
20	A25904-ND	2.15	48.68	102387-4
24	A25905-ND	2.33	52.73	102387-5
26	A25906-ND	2.37	53.75	102387-6
30	A25907-ND	2.73	61.86	102387-7
34	A25908-ND	3.00	67.94	102387-8
40	A25909-ND	3.31	75.04	102387-9
44	A25910-ND	3.63	82.14	1-102387-3
50	A25911-ND	4.08	92.28	1-102387-0
60	A25912-ND	4.45	100.80	1-102387-1
64	A25913-ND	4.96	112.20	1-102387-2

tyco Electronics AMP

Contacts

Fig. 1

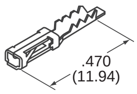

Fig. 2

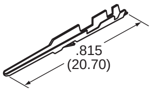

Fig. 3

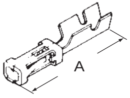

SPECIFICATIONS: • Contact Current Rating: 3 amperes • Terminal Resistance: 12mΩ maximum (beryllium copper) and 20mΩ maximum (copper-tin-phosphor bronze)

FEATURES: Available in a variety of platings and contact pressures; Dual cantilever contact beam with built-in overstress assures reliable connection.

Contact Plating:

A: 30μ gold on contact area, 100μ to 200μ tin-lead on crimp area, with entire contact underplated 50μ nickel

B: 15μ gold on contact area, 100μ to 200μ tin-lead in crimp end, with entire contact underplated 50μ nickel

C: 30μ gold on contact area, with gold flash over 50μ nickel on entire contact

D: 15μ gold on contact area, with gold flash over 50μ nickel on entire contact

E: 100μ to 200μ bright tin over 30μ nickel on entire contact

F: Gold flash over nickel, 15μ gold on contact area

G: Gold flash over nickel, 30μ gold on contact area

Fig.	Insulation Dia. - Max. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel 10,000	AMP Part No.
Crimp Snap-In (No-strip) Receptacles												
1	.055 (1.40)	BeCu	C	A25943-ND	5.85	39.33	102348-2	—	—	—	—	—
			E	A25944-ND	4.39	29.52	102348-3	A25944CT-ND	252.33	A25944TR-ND	136.26/M	87107-6
A25946-ND (90381-1) Crimp Hand Tool for Receptacles.. **$1078.41**												

Fig.	Dim. A	Wire Size (AWG)	Max. Ins. Dia. Inch (mm)	Material	Plating	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	1,000	Digi-Key Part No.	Strip Tape & Reel 12,500	AMP Part No.
Crimp Snap-In Pins with Insulation Support																
2	—	22-26	.061 (1.55)	Ph Bz	C	A25948-ND	5.12	34.44	102107-2	A25948CT-ND	—	155.83	283.33	A25948TR-ND	153.00/M	102095-3
					D	A25950-ND	4.34	29.23	102107-1	A25950CT-ND	—	139.92	254.40	A25950TR-ND	137.38/M	102095-2
					E	A25952-ND	1.99	13.38	102107-3	A25952CT-ND	—	64.25	116.83	A25952TR-ND	63.09/M	102095-4
Crimp Snap-In Receptacles with Insulation Support – Standard Pressure																
3	.445	27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A25953-ND	3.44	23.15	1-102316-4	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	B	A25955-ND	3.28	22.09	1-102316-3	A25955CT-ND	—	104.67	190.30	A25955TR-ND	102.77/M	102316-6
				BeCu	C	A25957-ND	5.25	35.29	102917-2	A25957CT-ND	—	166.17	302.13	A25957TR-ND	163.15/M	102917-1
				BeCu	D	—	—	—	—	A25958CT-ND	32.41	137.85	205.20	A25958TR-ND	142.07/M	102917-5
				Cu-Sn-Ph Bz	E	—	—	—	—	A25959CT-ND	22.31	94.87	141.22	A25959TR-ND	97.77/M	102316-5
	.445	22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A25966-ND	3.44	23.15	1-87756-8	—	—	—	—	—	—	—
				BeCu	A	A25973-ND	6.74	45.35	87667-1	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	B	A25968-ND	3.28	22.09	1-87756-6	—	—	—	—	—	—	—
				BeCu	C	A3001-ND	4.32	29.08	87667-2	—	—	—	—	—	—	—
				BeCu	D	A25972-ND	4.25	28.58	87667-5	—	—	—	—	—	—	—
				Cu-Sn-Ph Bz	E	A25970-ND	2.06	13.83	87756-7	—	—	—	—	—	—	—
				BeCu	E	A3000-ND	3.35	22.53	87667-3	A3000CT-ND	—	117.18	213.05	A3000TR-ND	115.05/M	87666-3
				Cu-Sn-Ph Bz	F	A25969-ND	3.45	23.21	87756-5	A25969CT-ND	—	108.86	197.93	A25969TR-ND	106.88/M	87756-4
				Cu-Sn-Ph Bz	G	—	—	—	—	A25967CT-ND	28.17	119.81	178.35	A25967TR-ND	123.48/M	87756-2
	.470	20-24	.069 (1.75)	Cu-Sn-Ph Bz	A	A25984-ND	3.44	23.15	1-87523-9	A25984CT-ND	—	146.89	267.08	A25984TR-ND	144.23/M	1-87523-8
				Cu-Sn-Ph Bz	B	A25986-ND	3.28	22.09	1-87523-6	A25986CT-ND	—	145.06	263.75	A25986TR-ND	142.43/M	1-87523-5
				BeCu	C	A25988-ND	6.60	44.43	86016-1	—	—	—	—	—	—	—
				BeCu	D	A25991-ND	4.73	31.83	86016-5	A25991CT-ND	—	173.84	316.08	A25991TR-ND	170.69/M	85969-6
				Cu-Sn-Ph Bz	D	—	—	—	—	A25996CT-ND	24.38	103.71	154.38	A25996TR-ND	106.88/M	87523-4
				Cu-Sn-Ph Bz	E	A25993-ND	2.02	13.56	87523-6	A25993CT-ND	—	89.39	162.53	A25993TR-ND	87.77/M	87523-5
				BeCu	E	A25995-ND	3.35	22.53	86016-3	A25995CT-ND	—	117.18	213.05	A25995TR-ND	115.05/M	85969-9
				BeCu	G	A25989-ND	4.32	29.08	86016-2	—	—	—	—	—	—	—
Crimp Snap-In Receptacles with Insulation Support – Intermediate Pressure																
3	.445	27-32	.040 (1.02)	Cu-Sn-Ph Bz	A	A25961-ND	3.44	23.15	102920-2	A25961CT-ND	—	199.36	362.48	A25961TR-ND	195.74/M	102920-1
				BeCu	C	A25963-ND	7.66	51.55	102918-2	A25963CT-ND	—	161.76	294.10	A25963TR-ND	158.82/M	102918-1
	.445	22-26	.061 (1.55)	Cu-Sn-Ph Bz	A	A25976-ND	3.44	23.15	103171-5	A25976CT-ND	—	108.35	197.00	A25976TR-ND	106.38/M	103171-4
				Cu-Sn-Ph Bz	B	—	—	—	—	A25977CT-ND	23.44	99.72	148.43	A25977TR-ND	102.77/M	103171-1
				BeCu	C	A25979-ND	5.25	35.31	102548-6	A25979CT-ND	—	166.17	302.13	A25979TR-ND	163.15/M	102548-5
				BeCu	D	A25981-ND	4.25	28.58	102548-3	A25981CT-ND	—	173.84	316.08	A25981TR-ND	170.69/M	102548-1
	.470	20-24	.069 (1.75)	Cu-Sn-Ph Bz	A	A25998-ND	3.44	23.15	2-87195-1	A25998CT-ND	—	146.91	267.10	A25998TR-ND	144.24/M	2-87195-0
				Cu-Sn-Ph Bz	B	A28315-ND	3.28	22.09	1-87195-8	A28315CT-ND	—	104.67	190.30	A28315TR-ND	102.77/M	1-87195-7
				BeCu	C	A28319-ND	6.66	44.78	87046-2	A28319CT-ND	—	210.66	383.03	A28319TR-ND	206.84/M	86492-4
				BeCu	D	A28317-ND	4.81	32.34	87046-1	A28317CT-ND	—	173.84	316.08	A28317TR-ND	170.69/M	86492-2
				BeCu	E	A3005-ND	4.00	26.93	87046-4	A3005CT-ND	—	138.79	252.35	A3005TR-ND	136.27/M	86492-9
				BeCu	G	A3006-ND	5.34	35.91	87046-3	—	—	—	—	—	—	—
Crimp Snap-In Receptacles with Insulation Support – High Pressure																
3	.445	27-32	.040 (1.02)	Ph Bz	C	A25965-ND	5.83	39.25	103455-2	A25965CT-ND	—	157.75	286.83	A25965TR-ND	154.89/M	103455-1
	.445	22-26	.061 (1.55)	Ph Bz	C	A3004-ND	3.15	26.14	102128-1	—	—	—	—	—	—	—
					E	A3003-ND	2.63	17.66	102128-2	A3003CT-ND	—	67.39	122.53	A3003TR-ND	66.17/M	87809-2
	.470	20-24	.069 (1.75)	Ph Bz	C	A3008-ND	3.25	26.94	1-87309-4	—	—	—	—	—	—	—
					E	A3007-ND	2.63	17.66	1-87309-3	—	—	—	—	—	—	—

A99114-ND (91541-1)	Crimp Tool MT Connectors 27-32AWG........................ **$551.57**	**A9903-ND** (91517-1)	Crimp Tool MT Connectors 22-26AWG........................ **$551.57**
A9840-ND (91516-1)	Crimp Tool MT Connectors 20-24AWG........................ **$491.31**	**A3077-ND** (86286-1)	Keying Plug for Standard or Intermediate Contacts **$1.95/10**

AMPMODU Locking Clip Contacts and Housings

FEATURES:
- Mates with .025” (.64mm) square posts
- Modular design permits end-to-end stacking
- Housing made of 94V-0 rated glass-filled polyester
- Stamped: cavity ID, Amp part number and date code stamped on housing where size permits. Unstamped: no marking on housing

PERFORMANCE CHARACTERISTICS:
- Contact Current Rating: 3 Amp.
- Termination Resistance: 12mΩ maximum (gold plated contacts) or 16mΩ maximum (tin plated contacts)

MATERIAL:
Glass-filled polyester, 94V-0

Fig. 1

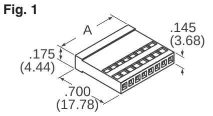

Fig. 2

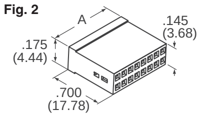

Fig.	No. of Pos.	Dimension A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Single Row (order contacts separately)							
1	1	.108 (2.74)	Unstamped	A26920-ND	.65	.59	87175-2
	2	.216 (5.49)	Unstamped	A26921-ND	.93	.85	87175-6
	3	.316 (8.03)	Unstamped	A26922-ND	1.12	1.02	87175-8
	4	.416 (10.57)	Unstamped	A26923-ND	1.26	1.14	1-87175-0
	5	.516 (13.11)	Unstamped	A26924-ND	1.29	1.18	1-87175-2
	6	.616 (15.65)	Unstamped	A26925-ND	1.37	1.25	1-87175-4
	6	.616 (15.65)	Stamped	A26926-ND	2.51	2.28	1-87175-3
	7	.716 (18.19)	Unstamped	A26927-ND	1.40	1.27	1-87175-6
	7	.716 (18.19)	Stamped	A26928-ND	2.57	2.33	1-87175-5
	8	.816 (20.73)	Unstamped	A26929-ND	1.67	1.52	1-87175-8
	8	.816 (20.73)	Stamped	A26930-ND	2.62	2.38	1-87175-7
	9	.916 (23.27)	Unstamped	A26931-ND	1.71	1.55	2-87175-0
	9	.916 (23.27)	Stamped	A26932-ND	2.67	2.42	1-87175-9
	10	1.016 (25.81)	Unstamped	A26933-ND	1.50	1.36	2-87175-2
	10	1.016 (25.81)	Stamped	A26934-ND	2.72	2.47	2-87175-1
	11	1.116 (28.35)	Unstamped	A26935-ND	2.26	2.06	2-87175-4
	11	1.116 (28.35)	Stamped	A26936-ND	3.08	2.79	2-87175-3
	12	1.216 (30.89)	Unstamped	A26937-ND	1.87	1.70	2-87175-6
	12	1.216 (30.89)	Stamped	A26938-ND	2.92	2.65	2-87175-5
	13	1.316 (33.43)	Unstamped	A26939-ND	1.96	1.78	2-87175-8
	14	1.416 (35.97)	Unstamped	A26940-ND	2.03	1.84	3-87175-0
	15	1.516 (38.51)	Unstamped	A26941-ND	1.79	1.63	87175-4
	15	1.516 (38.51)	Stamped	A26942-ND	3.86	3.50	87175-3
Double Row (order contacts separately)							
2	2	.116 (2.95)	Unstamped	A26943-ND	1.09	.99	87176-2
	4	.216 (5.49)	Unstamped	A26944-ND	1.40	1.27	87133-1
	6	.316 (8.03)	Unstamped	A26945-ND	1.33	1.21	87133-7
	6	.316 (8.03)	Stamped	A26946-ND	2.51	2.28	87133-8
	10	.516 (13.11)	Unstamped	A26947-ND	1.50	1.36	87133-2
	10	.516 (13.11)	Stamped	A26948-ND	2.72	2.47	87133-5
	12	.616 (15.65)	Unstamped	A26949-ND	2.54	2.30	1-87133-1
	20	1.016 (25.81)	Unstamped	A26950-ND	2.15	1.95	87133-3

Locking Clip Contacts

MATERIAL: Stainless steel spring

Contact Plating: A: 30µ gold on contact area, with gold flash over 50µ nickel on the entire contact **B:** 100µ - 200µ bright tin over 50µ nickel on entire contact **C:** 100µ - 200µ bright tin-lead over 50µ nickel on entire contact

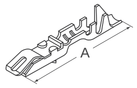

Wire Size (AWG)	Dim. A Inch (mm)	Insulation Diameter Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 1	10	25	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Strip T & R Pricing 7,000	AMP Part No.
28-30	.550 (13.97)	.029-.039 (.74-.99)	A	A26951-ND	.54	—	12.24	34.67	87191-1	A26951CT-ND	41.48	190.09	A26951TR-ND	207.38/M	87190-1
			C	A26952-ND	.41	—	9.20	26.07	87191-2	A26952CT-ND	37.63	172.45	A26952TR-ND	188.13/M	87190-2
22-26	.584 (14.83)	.038-.062 (.97-1.57)	A	A26954-ND	—	5.96	—	40.06	87165-1	A26954CT-ND	37.29	170.91	A26954TR-ND	186.45/M	87124-1
			B	A26956-ND	—	4.22	—	28.37	87165-2	A26956CT-ND	26.18	119.97	A26956TR-ND	130.88/M	87124-2
20	.584 (14.83)	.038-.062 (.97-1.57)	A	—	—	—	—	—	—	A26957CT-ND	42.54	180.92	A26957TR-ND	207.17/M	867052-2
			C	—	—	—	—	—	—	A26958CT-ND	29.91	127.20	A26958TR-ND	145.65/M	867052-1

A26960-ND	Keying Plug for .025” (.64mm) sq. post contacts	**$.17/1, $3.94/25**
A26961-ND	Extraction Tool	**$22.34**
A30043-ND	Crimp Tool for 22-26 AWG contacts	**$551.57**

AMPMODU Short Point Wire-Applied Connectors and Contacts

Fig. 1

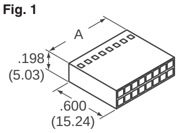

Fig. 2

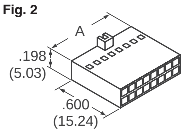

FEATURES:
- Short point of contact mates with .169” ~ .259” (4.29mm ~ 6.58mm)
- Double row housings are end-to-end and side-to-side stackable
- Terminates 20-32 AWG discrete wire • Mates with .025” (.64mm) square posts • Dual cantilever contact beams for reliable matings

PERFORMANCE CHARACTERISTICS:
- Contact Current Rating: 3 Amp.
- Termination Resistance: 12mΩ maximum

MATERIAL:
- Black thermoplastic, flame retardant, 94V-0

Fig.	No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Double Row, Non-Polarized (order contacts separately)						
1	4	.198 (5.03)	A25914-ND	.80	.72	104482-1
	6	.298 (7.57)	A25915-ND	.81	.74	104482-2
	8	.398 (10.11)	A25916-ND	.82	.74	104482-3
	10	.498 (12.65)	A25917-ND	.82	.75	104482-4
	12	.598 (15.19)	A25918-ND	.82	.75	104482-5
	14	.698 (17.73)	A25919-ND	.83	.75	104482-6
	16	.798 (20.27)	A25920-ND	.84	.76	104482-7
	18	.898 (22.81)	A25921-ND	.85	.77	104482-8
	20	.998 (25.35)	A25922-ND	.86	.79	104482-9
	22	1.098 (27.89)	A25923-ND	.88	.80	1-104482-0
	26	1.298 (32.97)	A25924-ND	.90	.82	1-104482-1
	28	1.398 (35.51)	A25925-ND	.91	.83	1-104482-2
	30	1.498 (38.05)	A25926-ND	.95	.87	1-104482-3
	32	1.598 (40.59)	A25927-ND	.96	.88	1-104482-4
	34	1.698 (43.13)	A25928-ND	1.01	.92	1-104482-5
	36	1.798 (45.67)	A25929-ND	1.02	.93	1-104482-6
	38	1.898 (48.21)	A25930-ND	1.03	.94	1-104482-7
	40	1.998 (50.75)	A25931-ND	1.04	.95	1-104482-8
	44	2.198 (55.83)	A25932-ND	1.79	1.62	1-104482-9
	52	2.598 (65.99)	A25933-ND	1.92	1.75	2-104482-0
Double Row, Polarized (order contacts separately)						
2	8	.398 (10.11)	A25934-ND	.82	.75	104483-1
	14	.698 (17.73)	A25935-ND	.81	.74	104483-9
	18	.898 (22.81)	A25936-ND	.82	.75	104483-2
	20	.998 (25.35)	A25937-ND	.84	.76	104483-3
	26	1.298 (32.97)	A25938-ND	.90	.82	104483-4
	30	1.498 (38.05)	A25939-ND	.95	.87	104483-5
	38	1.898 (48.21)	A25940-ND	1.00	.91	104483-6
	54	2.698 (68.53)	A25941-ND	1.81	1.65	104483-7
	64	3.198 (81.23)	A25942-ND	1.88	1.70	104483-8

Short Point Crimp Snap-In Receptacle Contacts

MATERIAL: Copper alloy C7025

Contact Plating: A: 30µ gold on contact area, with tin-lead over 50µ nickel on the crimp area **B:** 15µ gold on contact area, 50µ minimum tin-lead in crimp area, with entire post underplated 50µ nickel **C:** 100µ - 200µ bright tin-lead over 50µ nickel on entire contact

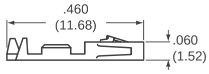

Wire Size (AWG)	Insulation Diameter Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip Tape & Reel Pricing 15,000	AMP Part No.
28-32	.025-.060 (.64-1.52)	A	A28323-ND	1.36	9.14	104481-8	A28323CT-ND	89.43	A28323TR-ND	48.29/M	104481-4
		B	A28325-ND	1.20	8.06	104481-7	A28325CT-ND	78.90	A28325TR-ND	42.61/M	104481-3
		C	A28326-ND	.95	6.37	104481-6	—	—	—	—	—
22-26	.025-.060 (.64-1.52)	A	A28327-ND	1.36	9.14	104480-9	—	—	—	—	—
		B	A28328-ND	1.20	8.06	104480-8	—	—	—	—	—
		C	A28329-ND	.95	6.37	104480-7	—	—	—	—	—
20-24	.025-.060 (.64-1.52)	A	A28331-ND	1.36	9.14	104479-7	A28331CT-ND	86.80	A28331TR-ND	46.88/M	104479-4
		B	A28333-ND	1.20	8.06	104479-6	A28333CT-ND	78.90	A28333TR-ND	39.45/M	104479-3
		C	A28335-ND	1.50	10.11	104479-5	A28335CT-ND	62.35	A28335TR-ND	33.67/M	104479-2

A29087-ND	Crimp Hand Tool for 28-32 AWG and 22-26 AWG	**$468.14**
A99101-ND	Crimp Hand Tool for 20-24 AWG	**$551.57**
A29088-ND	Extraction Tool	**$14.16**

AMPMODU MTE Interconnection System

The AMPMODU® MTE Interconnection System offers both wire-to-board and wire-to-wire connectors using .025" (0.64mm) square post technology. **FEATURES:** • Insulation displacement technology • Plain housings are end-to-end and/or back-to-back stackable for open pin field applications **ELECTRICAL CHARACTERISTICS:** • Contact Current Rating: 3amp • Contact Termination Resistance: 15mΩ (maximum) • Dielectric Withstanding Voltage: 600VAC, rms at sea level • Operating Temperature: -65°C ~ 105°C **MATERIAL:** • Housing: Black thermoplastic, 94V-0 rated • Contacts: Phosphor bronze

Contact Plating:

A: 30µ gold on contact area, 50µ minimum tin-lead in crimp area, with entire contact underplated 50µ nickel

B: 15µ gold on contact area, 50µ minimum tin-lead in crimp area, with entire contact underplated 50µ nickel

C: .100µ bright tin-lead over 50µ nickel on entire contact

Unloaded: No contacts in housing

Fig. 1 - Receptacle

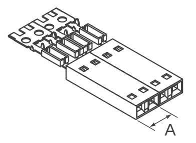

Fig. 2 - Receptacle

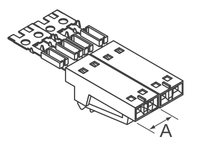

Fig. 3 - Pin

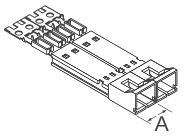

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Housing Quantity per Strip★	Price Each 1	Price Each 25	AMP Part No.
RECEPTACLE ASSEMBLIES Single Row .100" (2.54mm), 26-22 AWG							
Strip Form Plain — Fig. 1							
2	A	.198 (5.03)	A28349-ND	10	6.14	5.57	103976-1
	B		A28350-ND		9.14	8.28	103975-1
	C		A28351-ND		6.28	5.69	103974-1
3	A	.298 (7.57)	A28353-ND	8	5.40	4.89	103976-2
	B		A28354-ND		8.54	7.74	103975-2
	C		A28355-ND		5.94	5.39	103974-2
4	A	.398 (10.11)	A28357-ND	5	4.09	3.71	103976-3
	B		A28358-ND		5.88	5.33	103975-3
	C		A28359-ND		4.08	3.70	103974-3
5	A	.498 (12.65)	A28361-ND	4	3.45	3.13	103976-4
	B		A28362-ND		3.39	3.07	103975-4
	C		A28363-ND		3.41	3.09	103974-4
6	A	.598 (15.19)	A28364-ND	4	4.14	3.76	103976-5
	B		A28365-ND		4.03	3.65	103975-5
	C		A28366-ND		3.61	3.28	103974-5
7	A	.698 (17.73)	A28368-ND	2	3.09	2.80	103976-6
	B		A28369-ND		3.25	2.95	103975-6
	C		A28370-ND		2.92	2.65	103974-6
8	A	.798 (20.27)	A28372-ND	2	3.07	2.78	103976-7
	B		A28373-ND		3.60	3.27	103975-7
	C		A28374-ND		3.22	2.92	103974-7
9	A	.898 (22.81)	A28376-ND	2	3.33	3.02	103976-8
	C		A28377-ND		3.45	3.13	103974-8
10	A	.998 (23.35)	A28379-ND	2	3.63	3.29	103976-9
	B		A28380-ND		3.38	3.07	103975-9
	C		A28381-ND		7.60	6.89	103974-9
11	B	1.098 (27.89)	A28383-ND	2	3.68	3.33	1-103975-0
	C		A28384-ND		4.06	3.68	1-103974-0
12	A	1.198 (30.43)	A28386-ND	2	4.27	3.87	1-103976-1
	B		A28387-ND		3.96	3.59	1-103975-1
	C		A28388-ND		7.93	7.19	1-103974-1
2	Unloaded	.195 (5.03)	A28352-ND†	1	.27	.25	103688-1
3	Unloaded	.298 (7.57)	A28356-ND†		.39	.36	103688-2
4	Unloaded	.398 (10.11)	A28360-ND†		.45	.41	103688-3
6	Unloaded	.598 (15.19)	A28367-ND†		.61	.56	103688-5
7	Unloaded	.698 (17.73)	A28371-ND†		.56	.52	103688-6
8	Unloaded	.798 (20.27)	A28375-ND†	1	.60	.55	103688-7
9	Unloaded	.898 (22.81)	A28378-ND†		.56	.51	103688-8
10	Unloaded	.998 (23.35)	A28382-ND†		.58	.53	103688-9
11	Unloaded	1.098 (27.89)	A28385-ND†		.77	.70	1-103688-0
12	Unloaded	1.198 (30.43)	A28389-ND†		.70	.64	1-103688-1
Strip Form Polarized/Latching — Fig. 2							
2	A	.198 (5.03)	A28390-ND	10	5.82	5.28	103958-1
	B		A28391-ND		4.83	4.38	103957-1
	C		A28392-ND		4.53	4.11	103956-1
3	A	.298 (7.57)	A28394-ND	8	5.30	4.80	103958-2
	B		A28395-ND		4.66	4.22	103957-2
	C		A28396-ND		4.30	3.90	103956-2
4	A	.398 (10.11)	A28398-ND	5	4.01	3.64	103958-3
	B		A28399-ND		3.21	2.92	103957-3
	C		A28400-ND		3.18	2.88	103956-3
5	A	.498 (12.65)	A28402-ND	4	3.92	3.56	103958-4
	B		A28403-ND		3.39	3.07	103957-4
	C		A28404-ND		3.09	2.80	103956-4
6	A	.598 (15.19)	A28406-ND	4	4.67	4.23	103958-5
	B		A28407-ND		4.03	3.65	103957-5
	C		A28408-ND		6.14	5.56	103956-5
7	A	.698 (17.73)	A28410-ND	2	2.70	2.45	103958-6
	B		A28411-ND		2.32	2.11	103957-6
	C		A28412-ND		2.12	1.92	103956-6
8	A	.798 (20.27)	A28414-ND	2	3.00	2.72	103958-7
	B		A28415-ND		2.57	2.34	103957-7
	C		A28416-ND		2.34	2.12	103956-7
9	A	.898 (22.81)	A28418-ND	2	3.26	2.95	103958-8
	B		A28419-ND		4.05	3.68	103957-8
	C		A28420-ND		2.51	2.27	103956-8
10	A	.998 (23.35)	A28422-ND	2	3.55	3.22	103958-9
	B		A28423-ND		3.01	2.73	103957-9
	C		A28424-ND		2.71	2.46	103956-9
11	A	1.098 (27.89)	A28426-ND	2	3.58	3.25	1-103958-0
	B		A28427-ND		5.78	5.24	1-103957-0
	C		A28428-ND		2.73	2.48	1-103956-0
12	A	1.198 (30.43)	A28430-ND	2	4.18	3.79	1-103958-1
	B		A28431-ND		3.53	3.20	1-103957-1
	C		A28432-ND		3.18	2.88	1-103956-1
2	Unloaded	.198 (5.03)	A28393-ND†	1	.21	.19	104257-1
3	Unloaded	.298 (7.57)	A28397-ND†		.30	.28	104257-2
4	Unloaded	.398 (10.11)	A28401-ND†		.35	.32	104257-3
5	Unloaded	.498 (12.65)	A28405-ND†		.37	.34	104257-4
6	Unloaded	.598 (15.19)	A28409-ND†		.40	.37	104257-5
7	Unloaded	.698 (17.73)	A28413-ND†	1	.46	.42	104257-6
8	Unloaded	.798 (20.27)	A28417-ND†		.47	.43	104257-7
9	Unloaded	.898 (22.81)	A28421-ND†		.54	.49	104257-8
10	Unloaded	.998 (23.35)	A28425-ND†		.57	.52	104257-9
11	Unloaded	1.098 (30.43)	A28429-ND†		.65	.59	1-104257-0
12	Unloaded	1.198 (30.43)	A28433-ND†	1	.68	.62	1-104257-1
14	Unloaded	1.398 (35.51)	A26854-ND†		.86	.78	1-104257-3
15	Unloaded	1.498 (38.05)	A26855-ND†		1.06	.97	1-104257-4
16	Unloaded	1.598 (40.59)	A26856-ND†		1.13	1.03	1-104257-5
17	Unloaded	1.698 (43.13)	A26857-ND†		1.16	1.06	1-104257-6
20	Unloaded	1.998 (50.75)	A26858-ND†		1.18	1.07	1-104257-9
PIN ASSEMBLIES (contacts sold below for unloaded pin housing) Single Row .100" (2.54mm), 26-22 AWG							
Strip Form Polarized/Latching — Fig. 3							
2	A	.295 (7.49)	A28434-ND	8	7.83	7.09	103946-1
	B		A28435-ND		6.93	6.28	103945-1
	C		A28436-ND		6.69	6.06	103944-1
3	A	.395 (10.03)	A28438-ND	5	5.97	5.42	103946-2
	B		A28439-ND		4.58	4.15	103945-2
	C		A28440-ND		4.35	3.95	103944-2
4	A	.495 (12.57)	A28442-ND	4	7.53	6.82	103946-3
	B		A28443-ND		4.17	3.78	103945-3
	C		A28444-ND		3.93	3.56	103944-3
5	A	.595 (15.11)	A28446-ND	4	4.61	4.18	103946-4
	B		A28447-ND		4.32	3.91	103945-4
	C		A28448-ND		6.37	5.77	103944-4
6	A	.695 (17.05)	A28450-ND	2	2.76	2.50	103946-5
	B		A28451-ND		2.36	2.14	103945-5
	C		A28452-ND		2.18	1.98	103944-5
7	A	.795 (20.19)	A28454-ND	3	4.67	4.24	103946-6
	B		A28455-ND		10.96	9.93	103945-6
	C		A28456-ND		6.20	5.62	103944-6
8	A	.895 (22.73)	A28458-ND	2	4.79	4.35	103946-7
	B		A28459-ND		4.41	4.00	103945-7
	C		A28460-ND		4.03	3.65	103944-7
9	A	.995 (25.27)	A28462-ND	2	3.08	2.79	103946-8
	B		A28463-ND		3.23	2.93	103945-8
	C		A28464-ND		2.93	2.65	103944-8
10	A	1.095 (27.81)	A28466-ND	2	3.83	3.48	103946-9
	B		A28467-ND		4.61	4.18	103945-9
	C		A28468-ND		3.53	3.20	103944-9
11	A	1.195 (30.35)	A28470-ND	2	7.53	6.83	1-103946-0
	B		A28471-ND		21.04	19.06	1-103945-0
2	Unloaded	.295 (7.49)	A28437-ND	1	.48	.44	103653-1
3	Unloaded	.395 (10.03)	A28441-ND		.50	.46	103653-2
4	Unloaded	.495 (12.57)	A28445-ND		.59	.54	103653-3
5	Unloaded	.595 (15.11)	A28449-ND		.51	.47	103653-4
6	Unloaded	.695 (17.05)	A28453-ND		.51	.47	103653-5
7	Unloaded	.795 (20.19)	A28457-ND	1	1.22	1.11	103653-6
8	Unloaded	.895 (22.73)	A28461-ND		1.25	1.14	103653-7
9	Unloaded	.995 (25.27)	A28465-ND		1.30	1.19	103653-8
10	Unloaded	1.095 (27.81)	A28469-ND		1.38	1.25	103653-9
11	Unloaded	1.195 (30.35)	A28472-ND		2.10	1.91	1-103653-0
12	Unloaded	1.295 (32.89)	A28754-ND	1	1.59	1.45	1-103653-1
14	Unloaded	1.495 (37.97)	A28755-ND		1.71	1.55	1-103653-3
15	Unloaded	1.595 (40.51)	A28756-ND		1.21	1.10	1-103653-4
16	Unloaded	1.695 (43.05)	A28757-ND		1.71	1.55	1-103653-5
17	Unloaded	1.795 (45.59)	A26852-ND		2.34	2.13	1-103653-6
20	Unloaded	2.095 (53.21)	A28792-ND		1.21	1.10	1-103653-9

† For Female contacts see "Short Point Contacts" bottom of prior page.

★ **Parts must be ordered in Strip Quantity multiples.**

Interchangeable Contacts Wire Crimp (Snap-In) Pins

Material: Phosphor bronze **Specification:** Contact: standard pressure
Contact Plating: A: 30µ gold on contact area, 30µ minimum tin-lead in crimp area, with entire contact underplated 50µ nickel **B:** 15µ gold on contact area, 30µ minimum tin-lead in crimp area, with entire post underplated 50µ nickel **C:** 100µ minimum bright tin-lead over 50µ nickel on entire contact

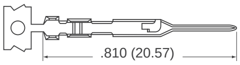

Wire Size (AWG)	Insulation Dia. Range Inch (mm)	Plating	Digi-Key Part No.	Loose Piece Pricing 10	Loose Piece Pricing 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Strip T & R Pricing 12,500	AMP Part No.
28-32	.025-.054 (.64-1.37)	A	A28336-ND	4.27	28.71	104506-7	—	—	—	—	—	—
		B	A28337-ND	4.00	26.89	104506-5	—	—	—	—	—	—
22-26	.036-.054 (.91-1.37)	A	A28339-ND	4.69	31.58	104505-7	A28339CT-ND	171.20	311.28	A28339TR-ND	168.09/M	104505-6
		B	A28341-ND	4.37	29.37	104505-5	A28341CT-ND	132.98	241.78	A28341TR-ND	130.56/M	104505-4
		C	A28343-ND	2.22	14.92	104505-3	A283 43CT-ND	125.57	228.30	A28343TR-ND	123.29/M	104505-2

ASKP02-ND Keying Plug - 10 Comb **$1.13**
A28345-ND Crimp Hand Tool for 28-32AWG (loose piece product) **$634.95**
A2031-ND Manual Pistol Grip Tool (loaded housing product) **$58.28**
A28718-ND Head Assembly Tool use with A2031-ND **$1020.60**
A30575-ND Certi-Crimp Hand Tool Assembly for 22-26AWG (loose piece product) **$519.12**

AMPMODU Unshrouded Profile Headers - .100” (2.54mm) Centers

PERFORMANCE CHARACTERISTICS: • Insulation Resistance: 5,000MΩ minimum initial • Withstanding Voltage: 750V rms at sea level • Operating Temperature: -65°C ~ 105°C • Current: 3 amp maximum per contact

MATERIAL: Black thermoplastic, 94V-0 rated • Posts: Copper alloy

Contact Plating:

A: Selectively plated 30µ gold on contact area, with gold flash over 50µ nickel

B: Selectively plated 15µ gold on contact area, with gold flash over 50µ nickel

Fig. 1

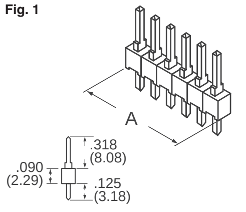

Fig. 2

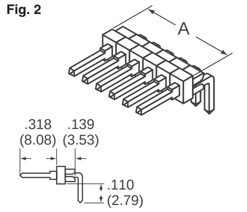

Fig. 3

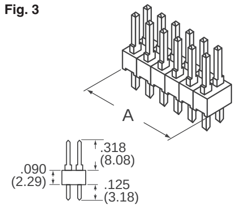

Fig. 4

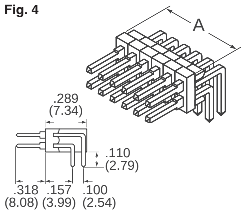

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Single Row						
Fig. 1 — .025” (.64mm) Square Straight Post						
1	A	.084 (2.13)	A26540-ND	.60	.54	87220-1
	B		A26541-ND	.45	.41	87224-1
2	A	.184 (4.67)	A26542-ND	1.08	.98	87220-2
	B		A26543-ND	.93	.84	87224-2
3	A	.284 (7.21)	A26544-ND	1.44	1.30	87220-3
	B		A26545-ND	1.06	.96	87224-3
4	A	.384 (9.75)	A26546-ND	1.89	1.71	87220-4
	B		A26547-ND	1.53	1.38	87224-4
5	A	.484 (12.29)	A26548-ND	2.13	1.92	87220-5
	B		A26549-ND	1.71	1.54	87224-5
6	A	.584 (14.83)	A26550-ND	2.43	2.19	87220-6
	B		A26551-ND	2.10	1.89	87224-6
7	A	.684 (17.37)	A26552-ND	2.94	2.65	87220-7
	B		A26553-ND	2.34	2.11	87224-7
8	A	.784 (19.91)	A26554-ND	3.24	2.92	87220-8
	B		A26555-ND	2.58	2.33	87224-8
10	A	.984 (24.99)	A26556-ND	3.96	3.57	1-87220-0
	B		A26557-ND	3.24	2.92	1-87224-0
20	A	1.984 (50.39)	A26558-ND	7.53	6.78	2-87220-0
	B		A26559-ND	6.03	5.43	2-87224-0
40	A	3.984 (101.19)	A26560-ND	14.82	13.34	4-87220-0
	B		A26561-ND	11.82	10.64	4-87224-0
Fig. 2 — .025” (.64mm) Square Right Angle Post						
1	A	.084 (2.13)	A28762-ND	.63	.57	87232-1
	B		A28763-ND	.60	.54	87233-1
2	A	.184 (4.67)	A28764-ND	1.17	1.06	87232-2
	B		A28765-ND	1.11	1.00	87233-2
3	A	.284 (7.21)	A28766-ND	1.59	1.44	87232-3
	B		A28767-ND	1.47	1.33	87233-3
4	A	.384 (9.75)	A28768-ND	1.98	1.79	87232-4
	B		A28769-ND	1.47	1.33	87233-4
5	A	.484 (12.29)	A28770-ND	2.31	2.08	87232-5
	B		A28771-ND	1.98	1.79	87233-5
6	A	.584 (14.83)	A28772-ND	2.88	2.60	87232-6
	B		A28773-ND	2.67	2.41	87233-6
7	A	.684 (17.37)	A28774-ND	3.33	3.00	87232-7
	B		A28775-ND	3.15	2.84	87233-7
8	A	.784 (19.91)	A28776-ND	3.54	3.19	87232-8
	B		A28777-ND	2.79	2.52	87233-8
10	A	.984 (24.99)	A28778-ND	4.14	3.73	1-87232-0
	B		A28779-ND	3.99	3.60	1-87233-0
20	A	1.984 (50.39)	A28780-ND	8.31	7.48	2-87232-0
	B		A28781-ND	7.68	6.92	2-87233-0
40	A	3.984 (101.19)	A26562-ND	15.87	14.29	4-87232-0
	B		A26563-ND	12.45	11.21	4-87233-0
Double Row						
Fig. 3 — .025” (.64mm) Square Straight Post						
2	A	.084 (2.13)	A26564-ND	1.17	1.06	1-87215-0
	B		A26565-ND	1.08	.98	87227-1
4	A	.184 (4.67)	A26566-ND	2.04	1.84	1-87215-1
	B		A26567-ND	1.71	1.54	87227-2

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
6	A	.284 (7.21)	A26568-ND	2.40	2.16	1-87215-2
	B		A26569-ND	2.04	1.84	87227-3
8	A	.384 (9.75)	A26570-ND	3.15	2.84	87215-1
	B		A26571-ND	2.43	2.19	87227-4
10	A	.484 (12.29)	A26572-ND	3.78	3.41	87215-2
	B		A26573-ND	3.15	2.84	87227-5
12	A	.584 (14.83)	A26574-ND	4.47	4.03	87215-3
	B		A26575-ND	3.51	3.16	87227-6
14	A	.684 (17.37)	A26576-ND	5.07	4.57	87215-4
	B		A26577-ND	3.96	3.57	87227-7
16	A	.784 (19.91)	A26578-ND	5.73	5.16	87215-5
	B		A26579-ND	4.56	4.11	87227-8
20	A	.984 (24.99)	A26580-ND	6.78	6.11	87215-7
	B		A26581-ND	5.64	5.08	1-87227-0
24	A	1.184 (30.07)	A26582-ND	8.46	7.62	87215-8
	B		A26583-ND	6.51	5.86	1-87227-2
26	A	1.284 (32.61)	A26584-ND	9.24	8.32	87215-9
	B		A28694-ND	7.20	6.48	1-87227-3
34	A	1.684 (42.77)	A26585-ND	11.91	10.72	1-87215-7
	B		A28695-ND	9.39	8.46	1-87227-7
50	A	2.484 (63.09)	A26586-ND	17.55	15.80	2-87215-5
	B		A26587-ND	13.68	12.32	2-87227-5
60	A	2.984 (75.79)	A26588-ND	21.00	18.90	3-87215-0
	B		A26589-ND	16.56	14.91	3-87227-0
80	A	3.984 (101.19)	A26591-ND	27.78	25.01	4-87215-0
	B		A26590-ND	21.63	19.47	4-87227-0
Fig. 4 — .025” (.64mm) Square Right-Angle Post						
2	A	.084 (2.13)	A28782-ND	1.17	1.06	1-86479-3
	B		A28783-ND	1.08	.98	87230-1
4	A	.184 (4.67)	A28784-ND	1.77	1.60	1-86479-4
	B		A28785-ND	1.53	1.38	87230-2
6	A	.284 (7.21)	A26592-ND	2.22	2.00	1-86479-5
	B		A26593-ND	1.77	1.60	87230-3
8	A	.384 (9.75)	A26594-ND	3.00	2.70	1-86479-6
	B		A26595-ND	2.34	2.11	87230-4
10	A	.484 (12.29)	A26596-ND	3.78	3.41	86479-3
	B		A26597-ND	3.12	2.81	87230-5
12	A	.584 (14.83)	A28786-ND	4.38	3.95	86479-4
	B		A28787-ND	3.96	3.57	87230-6
14	A	.684 (17.37)	A26598-ND	5.25	4.73	86479-5
	B		A26599-ND	4.56	4.11	87230-7
16	A	.784 (19.91)	A26600-ND	6.00	5.40	86479-2
	B		A26601-ND	4.68	4.22	87230-8
20	A	.984 (24.99)	A26602-ND	7.41	6.67	86479-1
	B		A26603-ND	5.73	5.16	1-87230-0
24	A	1.184 (30.07)	A28788-ND	8.88	8.00	86479-7
	B		A28789-ND	7.53	6.78	1-87230-2
26	A	1.284 (32.61)	A26604-ND	9.60	8.64	1-86479-0
	B		A26605-ND	7.41	6.67	1-87230-3
30	A	1.484 (37.69)	A26606-ND	11.10	9.99	1-86479-9
	B		A26607-ND	8.70	7.83	1-87230-5
50	A	2.484 (63.09)	A26608-ND	20.34	18.31	2-86479-9
	B		A26609-ND	14.40	12.96	2-87230-5
60	A	2.984 (75.79)	A28790-ND	22.14	19.93	3-86479-4
	B		A28791-ND	18.15	16.34	3-87230-0
80	A	3.984 (101.19)	A26610-ND	29.10	26.19	4-86479-4
	B		A26611-ND	21.87	19.69	4-87230-0

AMPMODU Unshrouded Breakaway Headers - .100” Centers

MATERIAL: • Housing: Black thermoplastic, 94V-0 rated • Posts: Phosphor bronze

Contact Plating: A: 30µ gold on contact area, 100µ ~ 200µ tin-lead on solder area, with entire post underplated 50µ nickel **B:** 15µ gold on contact area, 100µ ~ 200µ tin-lead on solder area, with entire post underplated 50µ nickel **C:** 100µ ~ 200µ tin-lead over 50µ nickel on entire post

Fig. 1

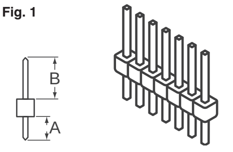

Fig. 2

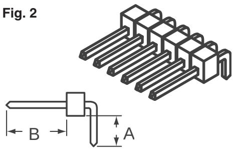

Fig. 3

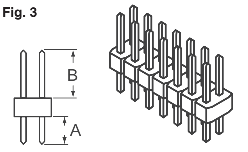

Fig. 4

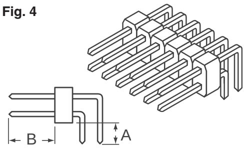

40 Pin Headers

No. of Pos.	Plating	Dimensions Inch (mm) A	Dimensions Inch (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
Single Row							
Fig. 1 — .025” (.64mm) Square Straight Post							
40	A	.090 (2.29)	.230 (5.84)	A26508-40-ND	1.96	1.76	4-103747-0
	C			A26509-40-ND	1.25	1.12	4-103741-0
	A	.120 (3.05)	.230 (5.84)	A26512-40-ND	2.05	1.84	4-103239-0
	B			A26513-40-ND	1.88	1.68	4-103185-0
	C			A26514-40-ND	1.34	1.20	4-103327-0
	A	.125 (3.18)	.318 (8.08)	A26518-40-ND	2.23	2.00	4-102976-0
	B			A26519-40-ND	1.96	1.76	4-102972-0
	C			A26520-40-ND	1.43	1.28	4-103321-0
Fig. 2 — .025” (.64mm) Square Right Angle Post							
40	A	.090 (2.29)	.230 (5.84)	A26510-40-ND	2.29	2.05	4-103765-0
	C			A26511-40-ND	2.59	2.32	4-103759-0
	A	.120 (3.05)	.230 (5.84)	A26515-40-ND	2.41	2.16	4-103148-0
	B			A26516-40-ND	2.32	2.08	4-103325-0
	C			A26517-40-ND	1.88	1.68	4-103329-0
	A	.110 (2.79)	.318 (8.08)	A26521-40-ND	2.59	2.32	4-102978-0
	B			A26522-40-ND	2.41	2.16	4-102974-0
	C			A26523-40-ND	1.96	1.76	4-103323-0
Double Row							
Fig. 3 — .025” (.64mm) Square Straight Post							
80	A	.090 (2.29)	.230 (5.84)	A26524-40-ND	2.93	2.63	4-103783-0
	C			A26525-40-ND	2.07	1.86	4-103777-0
	A	.120 (3.05)	.230 (5.84)	A26528-40-ND	3.04	2.72	4-103240-0
	B			A26529-40-ND	2.68	2.40	4-103186-0
	C			A26530-40-ND	2.14	1.92	4-103328-0
	A	.125 (3.18)	.318 (8.08)	A26534-40-ND	3.21	2.88	4-102977-0
	B			A26535-40-ND	2.86	2.56	4-102973-0
	C			A26536-40-ND	2.32	2.08	4-103322-0
Fig. 4 — .025” (.64mm) Square Right Angle Post							
80	A	.090 (2.29)	.230 (5.84)	A26526-40-ND	3.57	3.20	4-103801-0
	C			A26527-40-ND	3.04	2.72	4-103795-0
	A	.120 (3.05)	.230 (5.84)	A26531-40-ND	3.75	3.36	4-103149-0
	B			A26532-40-ND	3.57	3.20	4-103326-0
	C			A26533-40-ND	3.21	2.88	4-103330-0
	A	.110 (2.79)	.318 (8.08)	A26537-40-ND	3.93	3.52	4-102979-0
	B			A26538-40-ND	3.75	3.36	4-102975-0
	C			A26539-40-ND	3.39	3.04	4-103324-0

1-39 Pin Headers

Step 1 Digi-Key Part No.	Step 2 Base Price	Step 3 Pin Adder
Single Row		
.025” (.64mm) Square Straight Post		
A26508-XX-ND	.52	.04
A26509-XX-ND	.55	.02
A26512-XX-ND	.61	.04
A26513-XX-ND	.82	.03
A26514-XX-ND	.64	.02
A26518-XX-ND	.80	.04
A26519-XX-ND	.52	.04
A26520-XX-ND	.35	.03
.025” (.64mm) Square Right Angle Post		
A26510-XX-ND	.87	.04
A26511-XX-ND	.80	.05
A26515-XX-ND	.99	.04
A26516-XX-ND	.90	.04
A26517-XX-ND	.82	.03
A26521-XX-ND	80	.05
A26522-XX-ND	.99	.04
A26523-XX-ND	.52	.04
Double Row		
.025” (.64mm) Square Straight Post		
A26524-XX-ND	1.16	.05
A26525-XX-ND	.63	.04
A26528-XX-ND	.88	.06
A26529-XX-ND	.89	.05
A26530-XX-ND	.71	.04
A26534-XX-ND	1.06	.06
A26535-XX-ND	1.08	.05
A26536-XX-ND	.90	.04
.025” (.64mm) Square Right Angle Post		
A26526-XX-ND	1.44	.06
A26527-XX-ND	.88	.06
A26531-XX-ND	1.25	.07
A26532-XX-ND	1.44	.06
A26533-XX-ND	1.06	.06
A26537-XX-ND	1.44	.07
A26538-XX-ND	1.25	.07
A26539-XX-ND	1.25	.06

HOW TO ORDER:
4 EASY STEPS

How do I order an A26508 header with 16 pins?

Call Digi-Key where you’ll happily receive the price,

or

Determine the cost yourself.

A □□□□□ - □□ - ND

Base Part Number

Number of Desired Pins per Row

Step 1. Select needed Digi-Key Part Number and number of pins desired.

Step 2. Begin with the appropriate “Base Price” of your selected part number (refer to chart).

Step 3. Multiply the number of pins you desire by the “Pin Adder” of your selected part number (refer to chart).

Step 4. Add Step 2 and Step 3 together for final cost!

Our Example:

Step 1.	A26508-16-ND
Step 2.	.52
Step 3.	16 x .04 = .64
Step 4.	Your Cost = $1.16

NOTE: **For quantities of 10 or more, call DIGI-KEY.**

AMPMODU PCB Connectors - .100” (2.54mm) Centers

PERFORMANCE SPECIFICATIONS: • Current Rating: 3 amp maximum for single contact: 2 amp maximum per contact for fully energized connector • Voltage Rating: 250VAC • Dielectric Rating: 750VAC rms between contacts for one minute • Insulation Resistance: 1000MΩ after temperature/humidity cycling • Temperature Rating: Headers; -65°C ~ 105°C Receptacle Assemblies; -65°C ~ 125°C • Durability: 200 cycles for 30µ gold plating (75 cycles for 15µ gold plating)
MATERIAL: Headers: • Housing: Black thermoplastic, 94V-0 rated • Posts: Phosphor bronze **Receptacles:** • Housing: Brown thermoplastic, 94V-0 rated, high temperature compatible • Contacts: Phosphor bronze

Contact/Post Plating:

A: 30µ gold on contact area, 100µ ~ 200µ bright tin-lead on termination end, with entire post underplated 50µ nickel

B: 15µ gold on contact area, 100µ ~ 200µ bright tin-lead on termination end, with entire post underplated 50µ nickel

C: 30µ gold on contact area, 50µ ~ 100µ bright tin-lead on solder area, with entire contact underplated 50µ nickel

D: 15µ gold on contact area, 50µ ~ 100µ bright tin-lead on solder area, with entire contact underplated 50µ nickel

Fig. 1

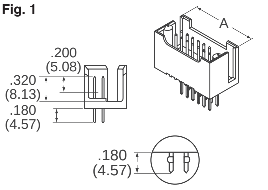

Fig. 2

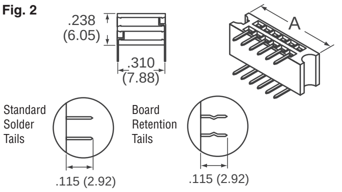

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Fig. 1 — Headers						
Straight Post with Standard Solder Tails						
12	A	.980 (24.89)	A26375-ND	2.88	2.60	102692-1
	B	.980 (24.89)	A26376-ND	2.61	2.35	102567-1
16	A	1.180 (29.97)	A26379-ND	3.57	3.22	1-102692-5
20	B	1.380 (35.05)	A26380-ND	3.39	3.06	1-102567-1
24	A	1.580 (40.13)	A26382-ND	4.38	3.95	102692-2
	B	1.580 (40.13)	A26383-ND	3.81	3.43	102567-2
30	A	1.880 (47.75)	A26385-ND	3.99	3.60	1-102692-7
	B	1.880 (47.75)	A26386-ND	3.39	3.06	1-102567-3
36	A	2.180 (55.37)	A26388-ND	5.91	5.32	102692-3
	B	2.180 (55.37)	A26389-ND	10.02	9.02	102567-3
40	A	2.380 (60.45)	A26391-ND	6.42	5.78	1-102692-3
	B	2.380 (60.45)	A26392-ND	4.80	4.32	1-102567-2
50	B	2.880 (73.15)	A26394-ND	6.51	5.86	102567-6
60	A	3.380 (85.85)	A26396-ND	8.97	8.08	102692-5
	B	3.380 (85.85)	A26397-ND	7.41	6.67	102567-4
70	B	3.880 (98.55)	A26399-ND	6.54	5.89	1-102567-0
80	B	4.380 (111.25)	A26401-ND	9.81	8.83	102567-8
100	A	5.380 (136.65)	A26402-ND	14.58	13.13	102692-8
	B	5.380 (136.65)	A26403-ND	12.15	10.94	102567-9
120	A	6.380 (162.05)	A26404-ND	17.31	15.58	102692-9

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With Board Retention Tails						
12	A	.980 (24.89)	A26377-ND	3.93	3.54	1-534978-6
20		1.380 (35.05)	A26381-ND	4.92	4.43	534978-3
24		1.580 (40.13)	A26384-ND	4.41	3.97	534978-4
30		1.880 (47.75)	A26387-ND	3.99	3.60	534978-5
36		2.180 (55.37)	A26390-ND	5.91	5.32	534978-6
40	A	2.380 (60.45)	A26393-ND	6.39	5.76	534978-7
50		2.880 (73.15)	A26395-ND	7.74	6.97	534978-8
60		3.380 (85.85)	A26398-ND	8.34	7.51	534978-9
70		3.880 (98.55)	A26400-ND	7.95	7.16	1-534978-5
110		5.880 (149.35)	A26378-ND	15.84	14.26	1-534978-2
Fig. 2 — Receptacles Horizontal Mount, Closed Entry						
Standard Solder Tails						
12	C	.858 (21.79)	A26340-ND	2.92	2.64	532956-1
	D	.858 (21.79)	A26341-ND	2.78	2.52	532955-1
16	C	1.058 (26.87)	A26343-ND	3.84	3.48	532956-2
20	C	1.258 (31.95)	A26344-ND	4.69	4.25	532956-3
	D	1.258 (31.95)	A26345-ND	4.35	3.94	532955-3
24	C	1.458 (37.03)	A26347-ND	5.41	4.90	532956-4
	D	1.458 (37.03)	A26348-ND	5.14	4.66	532955-4
30	C	1.758 (44.65)	A26350-ND	6.57	5.96	532956-5
	D	1.758 (44.65)	A26351-ND	6.20	5.62	532955-5
36	D	2.058 (52.27)	A26354-ND	7.21	6.53	532955-6

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
40	C	2.258 (57.35)	A26356-ND	4.59	4.16	532956-7
	D	2.258 (57.35)	A26357-ND	4.06	3.68	532955-7
50	C	2.758 (70.05)	A26359-ND	10.07	9.12	532956-8
	D	2.758 (70.05)	A26360-ND	9.25	8.38	532955-8
60	C	3.258 (82.75)	A26362-ND	11.79	10.68	532956-9
	D	3.258 (82.75)	A26363-ND	10.84	9.82	532955-9
70	D	3.758 (95.45)	A26365-ND	9.62	8.72	1-532955-0
72	C	3.858 (97.99)	A28693-ND	10.79	9.77	1-532956-1
80	C	4.258 (108.15)	A26367-ND	11.95	10.83	1-532956-2
100	C	5.258 (133.55)	A26369-ND	18.76	17.00	1-532956-6
	D	5.258 (133.55)	A26370-ND	17.49	15.84	1-532955-6
120	C	6.258 (158.95)	A26373-ND	22.60	20.48	1-532956-8
	D	6.258 (158.95)	A26374-ND	20.80	18.84	1-532955-8
Board Retention Tails						
12	C	.858 (21.79)	A26342-ND	4.03	3.65	534204-2
20		1.258 (31.95)	A26346-ND	4.69	4.25	534204-9
24		1.458 (37.03)	A26349-ND	5.43	4.92	1-534204-1
30		1.758 (44.65)	A26352-ND	6.57	5.96	534204-4
36		2.058 (52.27)	A26355-ND	8.77	7.95	534204-3
40	C	2.258 (57.35)	A26358-ND	8.19	7.42	1-534204-2
50		2.758 (70.05)	A26361-ND	9.65	8.74	534204-1
60		3.258 (82.75)	A26364-ND	11.63	10.54	534204-5
70		3.758 (95.45)	A26366-ND	10.49	9.51	1-534204-3
80		4.258 (108.15)	A26368-ND	11.95	10.83	534204-8
100		5.258 (133.55)	A26371-ND	19.08	17.28	534204-6
110		5.758 (146.25)	A26372-ND	20.88	18.92	1-534204-6

AMPMODU Shrouded Headers - .100” (2.54mm) Centers

MATERIAL: Housing: Black thermoplastic, 94V-0 rated **Posts:** Copper alloy

Contact Plating:

A: 30µ gold on contact area, 100µ ~ 200µ tin-lead on solder area, with entire post underplated 50µ nickel

B: 15µ gold on contact area, 100µ ~ 200µ tin-lead on solder area, with entire post underplated 50µ nickel

C: 100µ ~ 200µ tin-lead over 50µ nickel on entire post

Fig. 1

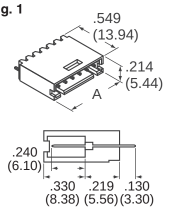

Fig. 2

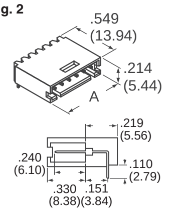

Fig. 3

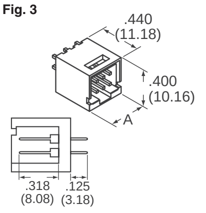

Fig. 4

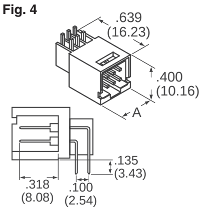

Fig. 5

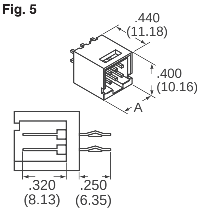

Single Row

Fig. 1 — .025” (.64mm) Square Straight Post, with Standoffs

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
3	A	.420 (10.67)	A26612-ND	1.29	1.17	103414-1
	B		A26613-ND	1.30	1.17	3-102202-4
	C		A26614-ND	1.23	1.11	103080-1
4	A	.520 (13.21)	A26615-ND	1.44	1.30	103414-2
	B		A26616-ND	1.34	1.21	102202-1
	C		A26617-ND	1.32	1.19	103080-2
5	A	.620 (15.75)	A26618-ND	2.88	2.60	103414-3
	B		A26619-ND	2.43	2.19	102202-2
	C		A26620-ND	2.29	2.07	103080-3
6	A	.720 (18.29)	A26621-ND	2.94	2.65	103414-4
	B		A26623-ND	2.82	2.54	102202-3
	C		A26624-ND	2.67	2.41	103080-4
7	A	.820 (20.83)	A26625-ND	1.95	1.76	103414-5
	B		A26626-ND	1.86	1.68	102202-4
	C		A26627-ND	2.82	2.54	103080-5
8	A	.920 (23.37)	A26628-ND	3.27	2.95	103414-6
	B		A26629-ND	3.06	2.76	102202-5
	C		A26630-ND	2.94	2.65	103080-6
9	B	1.020 (25.91)	A26631-ND	3.30	2.97	102202-6
10	A	1.120 (28.45)	A26632-ND	3.54	3.19	103414-8
	B		A26633-ND	3.39	3.06	102202-7
	C		A26634-ND	3.21	2.89	103080-8
11	B	1.220 (30.99)	A26635-ND	3.54	3.19	102202-8
12	A	1.320 (33.53)	A26636-ND	4.14	3.73	1-103414-0
	B		A26637-ND	3.78	3.41	102202-9
	C		A26638-ND	3.60	3.24	1-103080-0
13	A	1.420 (36.07)	A26639-ND	3.93	3.54	1-103414-1
	B		A26640-ND	3.96	3.57	1-102202-0
	C		A26641-ND	3.87	3.49	1-103080-1
14	A	1.520 (38.61)	A26642-ND	4.44	4.00	1-103414-2
	B		A26643-ND	4.20	3.78	1-102202-1
	C		A26644-ND	4.05	3.65	1-103080-2
16	A	1.720 (43.69)	A26645-ND	4.95	4.46	1-103414-4
	B		A26646-ND	4.62	4.16	1-102202-3
	C		A26647-ND	4.50	4.05	1-103080-4
18	A	1.920 (48.77)	A26648-ND	5.01	4.51	1-103414-6
	B		A26649-ND	5.04	4.54	1-102202-5
	C		A26650-ND	4.38	3.95	1-103080-6
20	A	2.120 (53.85)	A26651-ND	5.94	5.35	1-103414-8
	C		A26653-ND	3.33	3.00	1-103080-8

Fig. 2 — .025” (.64mm) Square Right Angle Post, with Standoffs

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
3	A	.420 (10.67)	A26654-ND	1.32	1.19	103361-1
	B		A26655-ND	1.34	1.21	3-102203-4
	C		A26656-ND	1.14	1.03	102523-2
4	A	.520 (13.21)	A26657-ND	1.62	1.46	103361-2
	B		A26658-ND	1.49	1.34	102203-1
	C		A26659-ND	1.26	1.14	102523-1
5	A	.620 (15.75)	A26660-ND	2.82	2.54	103361-3
	B		A26661-ND	2.73	2.46	102203-2
	C		A26662-ND	2.22	2.00	102523-3
6	A	.720 (18.29)	A26663-ND	2.88	2.60	103361-4
	B		A26664-ND	2.82	2.54	102203-3
	C		A26665-ND	2.22	2.00	102523-4
7	A	.820 (20.83)	A26666-ND	2.07	1.87	103361-5
	B		A26667-ND	1.98	1.79	102203-4
	C		A26668-ND	2.52	2.27	102523-5
8	A	.920 (23.37)	A26669-ND	3.45	3.11	103361-6
	B		A26670-ND	3.21	2.89	102203-5
	C		A26671-ND	2.58	2.33	102523-6
10	A	1.120 (28.45)	A26672-ND	3.87	3.49	103361-8
	B		A26673-ND	3.60	3.24	102203-7
	C		A26674-ND	2.79	2.52	102523-8
12	A	1.320 (33.53)	A26675-ND	4.29	3.87	1-103361-0
	B		A26676-ND	4.11	3.70	102203-9
	C		A26677-ND	3.00	2.70	1-102523-0
14	A	1.520 (38.61)	A26678-ND	4.80	4.32	1-103361-2
	B		A26679-ND	4.47	4.03	1-102203-1
	C		A26680-ND	3.15	2.84	1-102523-2
15	C	1.620 (41.15)	A26681-ND	5.85	5.27	1-102203-2
16	A	1.720 (43.69)	A26682-ND	5.37	4.84	1-103361-4
	B		A26683-ND	5.01	4.51	1-102203-3
	C		A26684-ND	3.39	3.06	1-102523-4
18	B	1.920 (48.77)	A26685-ND	5.43	4.89	1-102203-5
20	A	2.120 (53.85)	A26686-ND	4.20	3.78	1-103361-8
	B		A26687-ND	6.06	5.46	1-102203-7
	C		A26688-ND	2.49	2.25	1-102523-8
24	A	2.520 (64.00)	A26689-ND	5.40	4.86	2-103361-2

Double Row - .066” (1.68mm) Pin to Shroud End Dimension

Fig. 3 — .025” (.64mm) Square Straight Post, with Detent Windows

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
6	A	.412 (10.46)	A26708-ND	2.16	1.95	103168-1
	B		A26709-ND	1.77	1.60	102618-1
	C		A26710-ND	2.82	2.54	3-87589-6
8	A	.512 (13.00)	A26711-ND	2.76	2.49	103168-2
	B		A26712-ND	2.28	2.06	102618-2
	C		A26713-ND	1.95	1.76	3-87589-5
10	A	.612 (15.54)	A26714-ND	3.39	3.06	103168-3
	B		A26715-ND	2.67	2.41	102618-3
	C		A26716-ND	3.27	2.95	87589-1
12	A	.712 (18.08)	A26717-ND	3.90	3.51	103168-4
	B		A26718-ND	2.58	2.32	102618-4
	C		A26719-ND	2.52	2.10	87589-2
14	A	.812 (20.62)	A26720-ND	4.41	3.97	103168-5
	B		A26721-ND	3.39	3.06	102618-5
	C		A26722-ND	2.82	2.54	87589-3
16	A	.912 (23.16)	A26723-ND	4.86	4.38	103168-6
	B		A26724-ND	3.72	3.35	102618-6
	C		A26725-ND	3.09	2.79	87589-4
18	A	1.012 (25.70)	A26726-ND	5.31	4.78	103168-7
	B		A26727-ND	4.11	3.70	102618-7
	C		A26728-ND	4.56	4.11	87589-5
20	A	1.112 (28.24)	A26729-ND	6.00	5.40	103168-8
	B		A26730-ND	4.47	4.03	102618-8
	C		A26731-ND	5.46	4.92	87589-6
22	A	1.212 (30.78)	A26732-ND	6.48	5.84	103168-9
	B		A26733-ND	4.95	4.46	102618-9
	C		A26734-ND	3.57	3.22	87589-7
24	A	1.312 (33.32)	A26735-ND	6.72	6.05	1-103168-0
	B		A26736-ND	5.31	4.78	1-102618-0
	C		A26737-ND	4.29	3.87	87589-8
26	A	1.412 (35.86)	A26738-ND	7.53	6.78	1-103168-1
	B		A26739-ND	5.58	5.03	1-102618-1
	C		A26740-ND	4.47	4.03	87589-9
30	A	1.612 (40.94)	A26741-ND	8.61	7.75	1-103168-3
	B		A26742-ND	6.42	5.78	1-102618-3
	C		A26743-ND	5.19	4.68	1-87589-1
34	A	1.812 (46.02)	A26744-ND	9.63	8.67	1-103168-5
	B		A26745-ND	7.17	6.46	1-102618-5
	C		A26746-ND	5.79	5.22	1-87589-3
40	A	2.112 (53.64)	A26747-ND	7.02	6.32	1-103168-8
	B		A26748-ND	8.37	7.54	1-102618-8
	C		A26749-ND	6.63	5.97	1-87589-6
50	A	2.612 (66.34)	A26750-ND	14.01	12.61	2-103168-3
	B		A26751-ND	10.29	9.27	2-102618-3
	C		A26752-ND	8.28	7.46	2-87589-1
60	A	3.112 (79.04)	A26753-ND	16.53	14.88	2-103168-8
	B		A26754-ND	12.27	11.05	2-102618-8
	C		A26755-ND	9.69	8.73	2-87589-6

Fig. 4 — .025” (.64mm) Square Right-Angle Post, with Detent Windows

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
6	A	.412 (10.46)	A26756-ND	2.28	2.06	103166-1
	B		A26757-ND	1.92	1.73	102617-1
	C		A26758-ND	2.31	2.08	3-87579-5
8	A	.512 (13.00)	A26759-ND	2.94	2.65	103166-2
	B		A26760-ND	2.40	2.16	102617-2
	C		A26761-ND	3.30	2.97	87579-1
10	A	.612 (15.54)	A26762-ND	3.45	3.11	103166-3
	B		A26763-ND	2.85	2.57	102617-3
	C		A26764-ND	2.46	2.22	87579-2
12	A	.712 (18.08)	A26765-ND	3.84	3.46	103166-4
	B		A26766-ND	3.12	2.81	102617-4
	C		A26767-ND	2.76	2.49	87579-3
14	A	.812 (20.62)	A26768-ND	4.50	4.05	103166-5
	B		A26769-ND	3.57	3.22	102617-5
	C		A26770-ND	3.03	2.73	87579-4
16	A	.912 (23.16)	A26771-ND	5.01	4.51	103166-6
	B		A26772-ND	3.93	3.54	102617-6
	C		A26773-ND	3.30	2.97	87579-5
18	A	1.012 (25.70)	A26774-ND	5.55	5.00	103166-7
	B		A26775-ND	4.35	3.92	102617-7
	C		A26776-ND	3.57	3.22	87579-6
20	A	1.112 (28.24)	A26777-ND	5.88	5.30	103166-8
	B		A26778-ND	4.80	4.32	102617-8
	C		A26779-ND	3.93	3.54	87579-7
24	A	1.312 (33.32)	A26780-ND	7.65	6.89	1-103166-0
	B		A26781-ND	6.87	6.19	1-102617-0
	C		A26782-ND	5.88	5.30	87579-9
26	A	1.412 (35.86)	A26783-ND	7.80	7.02	1-103166-1
	B		A26784-ND	6.12	5.51	1-102617-1
	C		A26785-ND	5.04	4.54	1-87579-0
30	A	1.612 (40.94)	A26786-ND	9.18	8.27	1-103166-3
	B		A26787-ND	6.99	6.30	1-102617-3
	C		A26788-ND	5.70	5.13	1-87579-2
34	A	1.812 (46.02)	A26789-ND	10.23	9.21	1-103166-5
	B		A26790-ND	7.98	7.19	1-102617-5
40	A	2.112 (53.64)	A26791-ND	7.29	6.57	1-103166-8
	B		A26792-ND	9.12	8.21	1-102617-8
	C		A26793-ND	7.35	6.62	1-87579-7
50	A	2.612 (66.34)	A26794-ND	14.46	13.02	2-103166-3
	B		A26795-ND	11.22	10.10	2-102617-3
	C		A26796-ND	9.12	8.21	2-87579-2

Fig. 5 — ACTION PIN .025” (.64mm) Square Straight Post, with Detent Windows

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
6	A	.412 (10.46)	A26690-ND	6.87	6.19	102699-2
8		.512 (13.00)	A26692-ND	7.98	7.19	102699-3
10		.612 (15.54)	A26694-ND	9.93	8.94	102699-4
16		.912 (23.16)	A26696-ND	11.97	10.78	102699-7
20		1.112 (28.24)	A26698-ND	14.73	13.26	102699-9
26	A	1.412 (35.86)	A26700-ND	14.01	12.61	1-102699-2
30		1.612 (40.94)	A26702-ND	14.73	13.26	1-102699-4
40		2.112 (53.64)	A26704-ND	16.89	15.21	1-102699-9
60		3.112 (79.04)	A26706-ND	21.06	18.96	2-102699-8

Double Row - .150” (3.81mm) Pin to Shroud End Dimension

Fig. 3 — .025” (.64mm) Square Straight Post, with Detent Windows

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
6	A	.580 (14.73)	A26815-ND	2.10	1.89	103169-1
	B		A26816-ND	2.22	2.00	102619-1
8	A	.680 (17.27)	A26817-ND	2.76	2.49	103169-2
	B		A26818-ND	2.31	2.08	102619-2
10	A	.780 (19.81)	A26819-ND	3.27	2.95	103169-3
	B		A26820-ND	2.67	2.41	102619-3
12	A	.880 (22.35)	A26821-ND	3.72	3.35	103169-4
	B		A26822-ND	3.27	2.95	102619-4
14	A	.980 (24.89)	A26823-ND	4.23	3.81	103169-5
	B		A26824-ND	3.39	3.06	102619-5
16	A	1.080 (27.43)	A26825-ND	4.58	4.13	103169-6
	B		A26826-ND	3.72	3.35	102619-6
18	A	1.180 (29.97)	A26827-ND	5.31	4.78	103169-7
20	A	1.280 (32.51)	A26828-ND	5.44	4.90	103169-8
	B		A26829-ND	4.47	4.03	102619-8
24	A	1.480 (37.59)	A26830-ND	8.85	7.97	1-103169-0
	B		A26831-ND	5.31	4.78	1-102619-0
26	A	1.580 (40.13)	A26832-ND	7.26	6.54	1-103169-1
	B		A26833-ND	5.58	5.03	1-102619-1
30	A	1.780 (45.21)	A26834-ND	8.31	7.48	1-103169-3
	B		A26835-ND	6.39	5.76	1-102619-3
34	A	1.980 (50.29)	A26836-ND	9.33	8.40	1-103169-5
	B		A26837-ND	7.17	6.46	1-102619-5
40	A	2.280 (57.91)	A26838-ND	7.02	6.32	1-103169-8
	B		A26839-ND	8.37	7.54	1-102619-8
50	A	2.780 (70.61)	A26840-ND	12.96	11.67	2-103169-3
	B		A26841-ND	10.29	9.27	2-102619-3
60	A	3.280 (83.31)	A26842-ND	15.99	14.40	2-103169-8
	B		A26843-ND	12.27	11.05	2-102619-8

Fig. 4 — .025” (.64mm) Square Right-Angle Post, with Detent Windows

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
10	A	.780 (19.81)	A26797-ND	3.39	3.06	103167-2
	B		A26798-ND	2.85	2.57	102570-3
12	A	.880 (22.35)	A26799-ND	3.84	3.46	103167-3
	B		A26800-ND	3.12	2.81	102570-4
14	A	.980 (24.89)	A26801-ND	4.35	3.92	103167-4
	B		A26802-ND	3.54	3.19	102570-5
16	A	1.080 (27.43)	A26803-ND	5.19	4.68	103167-5
	B		A26804-ND	3.93	3.54	102570-6
20	A	1.280 (32.51)	A26805-ND	5.58	5.03	103167-7
	B		A26806-ND	4.80	4.32	102570-8
24	A	1.480 (37.59)	A26807-ND	8.13	7.32	103167-9
	B		A26808-ND	7.41	6.67	1-102570-0
26	A	1.580 (40.13)	A26809-ND	7.53	6.78	1-103167-0
	B		A26810-ND	6.12	5.51	1-102570-1
34	A	1.980 (50.29)	A26811-ND	9.33	8.40	1-103167-4
	B		A26813-ND	7.98	7.19	1-102570-5
40	B	2.280 (57.91)	A26814-ND	9.12	8.21	102570-1

Fig. 5 — ACTION PIN .025” (.64mm) Square Straight Post, with Detent Windows

No. of Pos.	Plat-ing	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
6	A	.580 (14.73)	A26691-ND	7.68	6.92	1-102557-0
8		.680 (17.27)	A26693-ND	8.37	7.54	1-102557-1
10		.780 (19.81)	A26695-ND	9.93	8.94	102557-9
16		1.080 (27.43)	A26697-ND	11.97	10.78	1-102557-4
20		1.280 (32.51)	A26699-ND	12.90	11.61	102557-2
30	A	1.780 (45.21)	A26703-ND	14.73	13.26	102557-4
40		2.280 (57.91)	A26705-ND	16.89	15.21	102557-1
60		3.280 (83.31)	A26707-ND	21.06	18.96	102557-7

tyco Electronics AMP

AMPMODU MTE Shrouded Latching Headers - .100” Centers

MATERIAL: • Housing: Black thermoplastic, 94V-0 rated • Posts: Copper alloy

Contact Plating:

A: 30µ gold on contact area, 100µ minimum tin-lead on solder area, with entire post underplated 50µ nickel

B: 15µ gold on contact area, 100µ minimum, tin-lead on solder area, with entire post underplated 50µ nickel

C: 100µ Tin-lead over 50µ nickel on entire post

Fig. 1

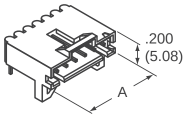

Fig. 2

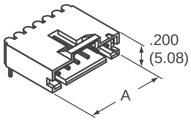

Fig. 3

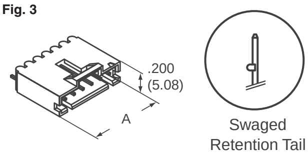

No. of Pos.	Plat-ing	Dim. Inch (mm) A	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Fig. 1 — Single Row, .025” (.64mm) Square Right Angle Post, with Holddown						
2	A	.300 (7.62)	A28574-ND	.73	.66	103904-1
	B		A28575-ND	.69	.62	103673-1
	C		A28576-ND	.47	.43	103672-1
3	A	.400 (10.16)	A28577-ND	1.08	.98	103904-2
	B		A28578-ND	.65	.59	103673-2
	C		A28579-ND	.60	.54	103672-2
4	A	.500 (12.70)	A28580-ND	.79	.72	103904-3
	B		A28581-ND	.73	.66	103673-3
	C		A28582-ND	.74	.67	103672-3
5	A	.600 (15.24)	A28583-ND	1.04	.94	103904-4
	B		A28584-ND	.94	.85	103673-4
	C		A28585-ND	1.15	1.04	103672-4
6	A	.700 (17.78)	A28586-ND	1.39	1.26	103904-5
	B		A28587-ND	.86	.78	103673-5
	C		A28588-ND	1.23	1.11	103672-5
7	A	.800 (20.32)	A28589-ND	1.43	1.29	103904-6
	B		A28590-ND	.93	.84	103673-6
	C		A28591-ND	1.75	1.58	103672-6
8	A	.900 (22.86)	A28592-ND	1.54	1.39	103904-7
	B		A28593-ND	1.00	.90	103673-7
	C		A28594-ND	1.11	1.01	103672-7
9	B	1.000 (25.40)	A28595-ND	1.07	.97	103673-8
10	A	1.100 (27.94)	A28596-ND	1.67	1.51	103904-9
	B		A28597-ND	1.14	1.03	103673-9
	C		A28598-ND	.97	.88	103672-9
11	B	1.200 (30.48)	A28599-ND	1.48	1.34	1-103673-0
	C		A28600-ND	1.08	.98	1-103672-0
12	A	1.300 (33.02)	A28601-ND	1.54	1.39	1-103904-1
	B		A28602-ND	1.34	1.21	1-103673-1
	C		A28603-ND	1.35	1.22	1-103672-1
14	A	1.500 (38.10)	A28605-ND	1.82	1.65	1-103904-3
	B		A28606-ND	1.75	1.58	1-103673-3
15	B	1.600 (40.64)	A28607-ND	1.55	1.40	1-103673-4
16	B	1.700 (43.18)	A28608-ND	1.89	1.71	1-103673-5
	C		A28609-ND	1.56	1.41	1-103672-5
17	B	1.800 (45.72)	A28522-ND	2.04	1.84	1-103673-6
	C		A28556-ND	1.39	1.26	1-103672-6
20	A	2.100 (53.34)	A28612-ND	2.05	1.85	1-103904-9
	B		A28613-ND	2.18	1.97	1-103673-9
Fig. 2 — Single Row, .025” (.64mm) Square Right Angle Post, without Holddown						
2	A	.300 (7.62)	A28618-ND	.61	.56	103906-1
	B		A28619-ND	.58	.53	103635-1
	C		A28620-ND	.55	.50	103634-1
3	A	.400 (10.16)	A28621-ND	.83	.75	103906-2
	B		A28622-ND	.65	.59	103635-2
	C		A28623-ND	.60	.54	103634-2
4	A	.500 (12.70)	A28624-ND	.79	.72	103906-3
	B		A28625-ND	.73	.66	103635-3
	C		A28626-ND	.78	.71	103634-3
5	A	.600 (15.24)	A28627-ND	1.04	.94	103906-4
	B		A28628-ND	.79	.72	103635-4
	C		A28629-ND	.66	.59	103634-4
6	A	.700 (17.78)	A28630-ND	1.11	1.01	103906-5
	B		A28631-ND	.86	.78	103635-5
	C		A28632-ND	.90	.82	103634-5
7	A	.800 (20.32)	A28633-ND	1.39	1.26	103906-6
	B		A28634-ND	.93	.84	103635-6
	C		A28635-ND	1.16	1.05	103634-6
8	A	.900 (22.86)	A28636-ND	1.13	1.02	103906-7
	B		A28637-ND	1.00	.90	103635-7
	C		A28638-ND	.86	.78	103634-7
9	A	1.000 (25.40)	A28639-ND	1.46	1.31	103906-8
	B		A28640-ND	1.07	.97	103635-8
	C		A28641-ND	.92	.83	103634-8
10	A	1.100 (27.94)	A28642-ND	1.31	1.19	103906-9
	B		A28643-ND	1.14	1.03	103635-9
	C		A28644-ND	.97	.88	103634-9
11	A	1.200 (30.48)	A28645-ND	1.45	1.31	1-103906-0
	B		A28646-ND	1.27	1.14	1-103635-0
	C		A28647-ND	1.04	.95	1-103634-0
12	A	1.300 (33.02)	A28648-ND	1.83	1.65	1-103906-1
	B		A28649-ND	1.34	1.21	1-103635-1
	C		A28650-ND	1.12	1.01	1-103634-1
14	A	1.500 (38.10)	A28653-ND	1.72	1.55	1-103906-3
	B		A28654-ND	1.39	1.26	1-103635-3
	C		A28655-ND	1.24	1.12	1-103634-3
15	B	1.600 (40.64)	A28656-ND	1.47	1.33	1-103635-4
	C		A28657-ND	1.30	1.17	1-103634-4
16	B	1.700 (43.18)	A28658-ND	1.52	1.37	1-103635-5
	C		A28659-ND	1.67	1.51	1-103634-5
17	A	1.800 (45.72)	A28557-ND	7.46	6.72	1-103906-6
20	A	2.100 (53.34)	A28661-ND	2.29	2.07	1-103906-9
	B		A28662-ND	1.75	1.58	1-103635-9
Polarized						
Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, with Swage Retention Tail						
2	A	.300 (7.62)	A28473-ND	.61	.56	103908-1
	B		A28474-ND	.58	.53	103670-1
	C		A28475-ND	.46	.42	103669-1
3	A	.400 (10.16)	A28476-ND	.70	.63	103908-2
	B		A28477-ND	.65	.59	103670-2
	C		A28478-ND	.60	.54	103669-2
4	A	.500 (12.70)	A28479-ND	.79	.72	103908-3
	B		A28480-ND	.73	.66	103670-3
	C		A28481-ND	.66	.60	103669-3
5	A	.600 (15.24)	A28482-ND	.88	.79	103908-4
	B		A28483-ND	.79	.72	103670-4
	C		A28484-ND	.71	.64	103669-4
6	A	.700 (17.78)	A28485-ND	.96	.87	103908-5
	B		A28486-ND	.86	.78	103670-5
	C		A28487-ND	.76	.69	103669-5
7	A	.800 (20.32)	A28488-ND	1.05	.95	103908-6
	B		A28489-ND	1.10	1.00	103670-6
	C		A28490-ND	.81	.74	103669-6
8	A	.900 (22.86)	A28491-ND	1.13	1.02	103908-7
	B		A28492-ND	1.00	.90	103670-7
	C		A28493-ND	.86	.78	103669-7
9	A	1.000 (25.40)	A28494-ND	1.23	1.11	103908-8
	B		A28495-ND	1.07	.97	103670-8
	C		A28496-ND	.92	.83	103669-8
10	A	1.100 (27.94)	A28497-ND	1.31	1.19	103908-9
	B		A28498-ND	1.36	1.23	103670-9
	C		A28499-ND	.97	.88	103669-9
11	A	1.200 (30.48)	A28500-ND	1.36	1.23	1-103908-0
	B		A28501-ND	1.43	1.29	1-103670-0
	C		A28502-ND	1.08	.98	1-103669-0
12	A	1.300 (33.02)	A28503-ND	1.54	1.39	1-103908-1
	B		A28504-ND	1.34	1.21	1-103670-1
	C		A28505-ND	1.29	1.16	1-103669-1
14	A	1.500 (38.10)	A28508-ND	1.72	1.55	1-103908-3
	B		A28509-ND	2.18	1.97	1-103670-3
	C		A28510-ND	1.24	1.12	1-103669-3
15	A	1.600 (40.64)	A28511-ND	1.80	1.63	1-103908-4
	B		A28512-ND	4.66	4.19	1-103670-4
	C		A28513-ND	4.93	4.44	1-103669-4
16	A	1.700 (43.18)	A28514-ND	1.76	1.59	1-103908-5
	B		A28515-ND	1.62	1.46	1-103670-5
	C		A28516-ND	1.56	1.41	1-103669-5
17	B	1.800 (45.72)	A28794-ND	1.68	1.51	1-103670-6
	C		A28517-ND	1.39	1.26	1-103669-6
20	A	2.100 (53.34)	A28518-ND	2.05	1.85	1-103908-9
	B		A28519-ND	1.94	1.75	1-103670-9
Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, without Holddown and without Swage Retention Tail						
2	A	.300 (7.62)	A28523-ND	.61	.56	103735-1
	B		A28524-ND	.58	.52	103638-1
	C		A28525-ND	.49	.45	103639-1
3	A	.400 (10.16)	A28526-ND	.70	.63	103735-2
	B		A28527-ND	.63	.57	103638-2
	C		A28528-ND	.60	.54	103639-2
4	A	.500 (12.70)	A28529-ND	.79	.72	103735-3
	B		A28530-ND	.65	.59	103638-3
	C		A28531-ND	.59	.54	103639-3
5	A	.600 (15.24)	A28532-ND	.88	.79	103735-4
	B		A28533-ND	.79	.72	103638-4
	C		A28534-ND	.73	.66	103639-4
6	A	.700 (17.78)	A28535-ND	.96	.87	103735-5
	B		A28536-ND	.86	.78	103638-5
	C		A28537-ND	.90	.82	103639-5
7	A	.800 (20.32)	A28538-ND	1.05	.95	103735-6
	B		A28539-ND	.93	.84	103638-6
	C		A28540-ND	.75	.68	103639-6
8	A	.900 (22.86)	A28541-ND	1.13	1.02	103735-7
	B		A28542-ND	1.00	.90	103638-7
	C		A28543-ND	.86	.78	103639-7
9	A	1.000 (25.40)	A28544-ND	1.32	1.19	103735-8
	B		A28545-ND	1.07	.97	103638-8
	C		A28546-ND	.83	.75	103639-8
10	A	1.100 (27.94)	A28547-ND	1.36	1.23	103735-9
	B		A28548-ND	1.18	1.07	103638-9
	C		A28549-ND	.90	.82	103639-9
11	A	1.200 (30.48)	A28550-ND	1.70	1.53	1-103735-0
	B		A28551-ND	2.34	2.11	1-103638-0
	C		A28552-ND	1.08	.98	1-103639-0
12	A	1.300 (33.02)	A28553-ND	1.44	1.30	1-103735-1
	B		A28554-ND	1.34	1.21	1-103638-1
14	A	1.500 (38.10)	A28558-ND	2.03	1.84	1-103735-3
	B		A28559-ND	1.48	1.34	1-103638-3
	C		A28560-ND	1.24	1.12	1-103639-3
15	B	1.600 (40.64)	A28561-ND	1.68	1.52	1-103638-4
	C		A28562-ND	1.30	1.17	1-103639-4
16	B	1.700 (43.18)	A28563-ND	3.12	2.82	1-103638-5
	C		A28564-ND	1.35	1.22	1-103639-5
17	A	1.800 (45.72)	A28520-ND	2.70	2.44	1-103735-6
20	A	2.100 (53.34)	A28568-ND	2.06	1.86	1-103735-9
	B		A28569-ND	2.03	1.83	1-103638-9
	C		A28570-ND	1.61	1.45	1-103639-9
Polarized - High Temperature						
Fig. 1 — Single Row, .025” (.64mm) Square Right Angle Post, with Swage Retention Tail						
2	B	.300 (7.62)	A28675-ND	.73	.66	104361-1
3		.400 (10.16)	A28676-ND	1.26	1.14	104361-2
4		.500 (12.70)	A28677-ND	.80	.72	104361-3
5		.600 (15.24)	A28678-ND	.87	.79	104361-4
6		.700 (17.78)	A28679-ND	.95	.86	104361-5
7	B	.800 (20.32)	A28680-ND	1.02	.93	104361-6
8		.900 (22.86)	A28681-ND	1.10	.99	104361-7
9		1.000 (25.40)	A28682-ND	1.18	1.06	104361-8
10		1.100 (27.94)	A28683-ND	1.55	1.40	104361-9
12		1.300 (33.02)	A28684-ND	1.47	1.33	1-104361-1
Fig. 3 — Single Row, .025” (.64mm) Square Straight Post, with Swage Retention Tail						
2	B	.300 (7.62)	A28665-ND	.64	.58	104362-1
3		.400 (10.16)	A28666-ND	.98	.88	104362-2
4		.500 (12.70)	A28667-ND	1.29	1.16	104362-3
5		.600 (15.24)	A28668-ND	.87	.79	104362-4
6		.700 (17.78)	A28669-ND	1.23	1.11	104362-5
7	B	.800 (20.32)	A28670-ND	1.21	1.10	104362-6
8		.900 (22.86)	A28671-ND	1.28	1.16	104362-7
9		1.000 (25.40)	A28672-ND	1.14	1.03	104362-8
10		1.100 (27.94)	A28673-ND	1.26	1.14	104362-9
12		1.300 (33.02)	A28674-ND	5.59	5.04	1-104362-1

AMPMODU Mod. II and IV Receptacles Assemblies

PERFORMANCE SPECIFICATIONS:

- Durability: 200 cycles
- Operating Temperature: -65°C ~ 105°C (-65°C ~ 125°C for horizontal mount)
- Current Rating: 3 amp maximum for single contact (2 amp maximum per contact when connector is fully energized)
- Insulation Resistance: 5000MΩ minimum between adjacent contacts

MATERIAL:

- Housing: Black thermoplastic, 94V-0 rated (horizontal mount - high temperature compatible)
- Contacts: Phosphor bronze

Contact/Post Plating:

A: 30μ gold on contact area, 50μ to 100μ bright tin-lead on solder area, with entire contact underplated 50μ nickel

B: 30μ gold on contact area, 100μ to 200μ bright tin-lead on solder area, with entire contact underplated 50μ nickel

Fig. 1

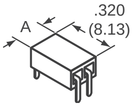

Fig. 2

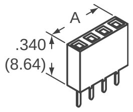

Fig. 3

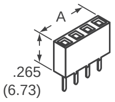

Fig. 4

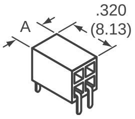

Fig. 5

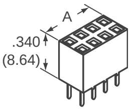

Fig. 6

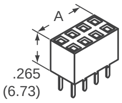

Fig. 7

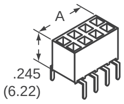

No. of Pos.	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Single Row						
Fig. 1 — Mod. II, Horizontal Mount Short Point-of-Contact, with Standoffs						
2	A	.200 (5.08)	A26405-ND	.48	.44	535676-1
3		.300 (7.62)	A26406-ND	.64	.58	535676-2
4		.400 (10.16)	A26407-ND	.77	.70	535676-3
5		.500 (12.70)	A26408-ND	.90	.82	535676-4
6		.600 (15.24)	A26409-ND	1.01	.92	535676-5
8	A	.800 (20.32)	A26410-ND	1.33	1.20	535676-7
10		1.000 (25.40)	A26411-ND	1.62	1.47	535676-9
12		1.200 (30.48)	A26412-ND	2.44	2.21	1-535676-1
14		1.400 (35.56)	A26413-ND	2.81	2.55	1-535676-3
16		1.600 (40.64)	A26414-ND	2.39	2.16	1-535676-5
Fig. 2 — Mod. IV, Vertical Mount, Top Entry, End Stackable with Single Tine Contacts						
3	A	.300 (7.62)	A26415-ND	.77	.70	534237-1
4		.400 (10.16)	A26416-ND	.85	.77	534237-2
5		.500 (12.70)	A26417-ND	.90	.82	534237-3
6		.600 (15.24)	A26418-ND	.98	.89	534237-4
7		.700 (17.78)	A26419-ND	1.06	.96	534237-5
8	A	.800 (20.32)	A26420-ND	1.14	1.04	534237-6
10		1.000 (25.40)	A26421-ND	1.40	1.28	534237-8
12		1.200 (30.48)	A26422-ND	1.54	1.40	1-534237-0
13		1.300 (33.02)	A26423-ND	1.62	1.47	1-534237-1
14		1.400 (35.56)	A26424-ND	1.70	1.54	1-534237-2
15	A	1.500 (38.10)	A26425-ND	1.80	1.64	1-534237-3
16		1.600 (40.64)	A26426-ND	1.86	1.68	1-534237-4
18		1.800 (45.72)	A26427-ND	2.07	1.88	1-534237-6
20		2.000 (50.80)	A26428-ND	2.23	2.02	1-534237-8
30		3.000 (76.20)	A26429-ND	3.07	2.79	2-534237-8
Fig. 3 — Mod. IV, Vertical Mount, Top Entry, End Stackable, Low Profile with Single Tine Contacts						
3	A	.300 (7.62)	A26473-ND	.69	.63	535541-1
5		.500 (12.70)	A26475-ND	.87	.80	535541-3
6		.600 (15.24)	A26476-ND	.93	.84	535541-4
8		.800 (20.32)	A26477-ND	1.06	.96	535541-6
10	A	1.000 (24.40)	A26478-ND	1.27	1.16	535541-8
12		1.200 (30.48)	A26479-ND	1.48	1.35	1-535541-0
14		1.400 (35.56)	A26480-ND	1.64	1.49	1-535541-2
16		1.600 (40.64)	A26481-ND	1.83	1.66	1-535541-4
18		1.800 (45.72)	A26482-ND	1.99	1.80	1-535541-6
20	A	2.000 (50.80)	A26483-ND	2.17	1.97	1-535541-8
30		3.000 (76.20)	A26484-ND	3.02	2.74	2-535541-8
Double Row						
Fig. 4 — Mod. II, Horizontal Mount, End Stackable, Short Point-of-Contact with Standoffs						
4	A	.200 (5.08)	A26430-ND	1.01	.92	6-535512-1
6		.300 (7.62)	A26431-ND	.90	.82	6-535512-2
8		.400 (10.16)	A26432-ND	1.09	.99	6-535512-3
10		.500 (12.70)	A26433-ND	1.33	1.20	6-535512-4
12		.600 (15.24)	A26434-ND	1.62	1.47	535512-1
14	A	.700 (17.78)	A26435-ND	2.86	2.60	1-535512-7
16		.800 (20.32)	A26436-ND	2.07	1.88	1-535512-8
18		.900 (22.86)	A26437-ND	2.33	2.12	1-535512-6
20		1.000 (25.40)	A26438-ND	2.52	2.28	535512-2
22		1.100 (27.94)	A26439-ND	2.78	2.52	1-535512-9
24	A	1.200 (30.48)	A26440-ND	2.97	2.69	535512-3
26		1.300 (33.02)	A26441-ND	3.23	2.93	2-535512-0
28	A	1.400 (35.56)	A26442-ND	5.41	4.90	2-535512-1
32		1.600 (40.64)	A26444-ND	3.90	3.53	2-535512-3
34		1.700 (43.18)	A26445-ND	6.47	5.86	535512-4
50	A	2.500 (63.50)	A26448-ND	9.38	8.50	535512-7
60		3.000 (76.20)	A26449-ND	11.29	10.23	3-535512-0
70		3.500 (88.90)	A26450-ND	13.06	11.84	1-535512-0
Fig. 5 — Mod. IV, Vertical Mount, Top Entry, End Stackable, .100 x .100 (2.54 x 2.54mm) Mounting Pattern						
2	B	.100 (2.54)	A26451-ND	.69	.63	534206-1
4		.200 (5.08)	A26452-ND	.87	.80	534206-2
6		.300 (7.62)	A26453-ND	1.03	.94	534206-3
8		.400 (10.16)	A26454-ND	1.22	1.11	534206-4
10		.500 (12.70)	A26455-ND	1.46	1.32	534206-5
12	B	.600 (15.24)	A26456-ND	1.62	1.47	534206-6
14		.700 (17.78)	A26457-ND	1.80	1.64	534206-7
16		.800 (20.32)	A26458-ND	1.99	1.80	534206-8
18		.900 (22.86)	A26459-ND	2.17	1.97	534206-9
20		1.000 (25.40)	A26460-ND	2.39	2.16	1-534206-0
24	B	1.200 (30.48)	A26461-ND	2.73	2.48	1-534206-2
26		1.300 (33.02)	A26462-ND	2.94	2.67	1-534206-3
28		1.400 (35.56)	A26463-ND	3.13	2.84	1-534206-4
30		1.500 (38.10)	A26464-ND	3.34	3.03	1-534206-5
32		1.600 (40.64)	A26465-ND	3.50	3.17	1-534206-6
34	B	1.700 (43.18)	A26466-ND	3.68	3.34	1-534206-7
36		1.800 (45.72)	A26467-ND	3.87	3.51	1-534206-8
40		2.000 (50.80)	A26468-ND	4.24	3.84	2-534206-0
44		2.200 (55.88)	A26469-ND	4.64	4.20	2-534206-2
50		2.500 (63.50)	A26470-ND	5.17	4.68	2-534206-5
60	B	3.000 (76.20)	A26471-ND	6.15	5.57	3-534206-0
64		3.200 (81.28)	A26472-ND	6.52	5.91	3-534206-2
Fig. 6 — Mod. IV, Top Entry, End Stackable, Low Profile, .100 x .100 (2.54 x 2.54mm) Mounting Pattern						
8	B	.400 (10.16)	A26485-ND	1.11	1.01	534998-4
10		.500 (12.70)	A26486-ND	1.40	1.28	534998-5
12		.600 (15.24)	A26487-ND	1.56	1.42	534998-6
14		.700 (17.78)	A26488-ND	1.72	1.56	534998-7
16		.800 (20.32)	A26489-ND	1.93	1.76	534998-8
20	B	1.000 (25.40)	A26490-ND	2.33	2.12	1-534998-0
24		1.200 (30.48)	A26491-ND	2.65	2.40	1-534998-2
26		1.300 (33.02)	A26492-ND	2.86	2.60	1-534998-3
28		1.400 (35.56)	A26493-ND	3.02	2.74	1-534998-4
30		1.500 (38.10)	A26494-ND	3.23	2.93	1-534998-5
32	B	1.600 (40.64)	A26495-ND	3.42	3.10	1-534998-6
34		1.700 (43.18)	A26496-ND	3.60	3.27	1-534998-7
36		1.800 (45.72)	A26497-ND	3.79	3.44	1-534998-8
40		2.000 (50.80)	A26498-ND	4.19	3.80	2-534998-0
50		2.500 (63.50)	A26499-ND	5.14	4.66	2-534998-5
60		3.000 (76.20)	A26500-ND	6.10	5.52	3-534998-0
Fig. 7 — Mod. IV, Bottom Entry, End Stackable, Low Profile, .100 x .300 (2.54 x 7.62mm) Mounting Pattern						
14	B	.700 (17.78)	A26501-ND	1.86	1.68	534267-1
20		1.000 (25.40)	A26502-ND	2.44	2.21	534267-2
30		1.500 (38.10)	A26503-ND	3.39	3.08	1-534267-2
36		1.800 (45.72)	A26504-ND	3.95	3.58	1-534267-5
40		2.000 (50.80)	A26505-ND	4.35	3.94	534267-7
48	B	2.400 (60.96)	A26506-ND	5.09	4.61	1-534267-1
60		3.000 (76.20)	A26507-ND	6.20	5.62	534267-8

Interconnection System Connectors

RITS Series

Voltage Rating: 32VDC **Current Rating:** 0.5A ~ 3A **Temperature Rating:** -30°C ~ 75°C

Fig. 1

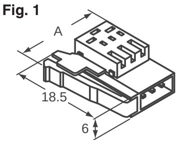

Fig. 2

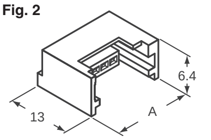

Fig. 3

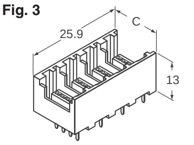

Fig. 4

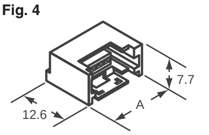

Fig. 5

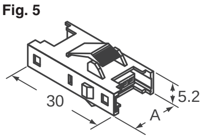

Fig. 6

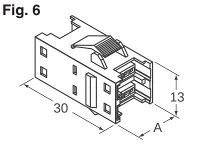

Fig.	No. of Pos.	Dim. (mm) A	Dim. (mm) C	Body Color	Digi-Key Part No.	Price Each 1	Price Each 100	Tape and Reel Size	Tape and Reel Pricing	AMP Part No.
Plug, IDC (Insulation Displacement Contact)										
1	3	14.1	—	Yellow	A29146-ND	1.68	1.36	—	—	1473562-3
	3	14.1	—	Blue	A29148-ND	1.53	1.25	—	—	2-1473562-3
	3	14.1	—	Green	A29158-ND	2.08	1.69	—	—	4-1473562-3
	3	14.1	—	Orange	A29162-ND	4.68	3.80	—	—	3-1473562-3
	4	16.1	—	Yellow	A29149-ND	2.02	1.64	—	—	1473562-4
	4	16.1	—	Blue	A29151-ND	2.02	1.64	—	—	2-1473562-4
	4	16.1	—	Green	A29159-ND	2.14	1.74	—	—	4-1473562-4
	4	16.1	—	Orange	A29163-ND	2.14	1.74	—	—	3-1473562-4
	4	16.1	—	Red	A29150-ND	2.02	1.64	—	—	1-1473562-4
	6	20.1	—	Green	A29160-ND	2.25	1.82	—	—	4-1473562-6
	8	24.1	—	Yellow	A29155-ND	2.56	2.08	—	—	1473562-8
Header Vertical Thru Hole										
2	3	13.8	—	—	A29166-ND	1.83	1.32	—	—	1473565-3
	4	15.8	—	—	A29167-ND	2.52	1.81	—	—	1473565-4
	5	19.8	—	—	A29168-ND	4.95	3.55	—	—	1473565-5
	6	19.8	—	—	A29169-ND	3.21	2.31	—	—	1473565-6
	8	23.8	—	—	A29171-ND	2.79	2.00	—	—	1473565-8
Header Vertical 4Row										
3	3	—	13.8	—	A29173-ND	4.29	3.08	—	—	1473567-3
	4	—	15.8	—	A29172-ND	5.82	4.18	—	—	1473567-4

Fig.	No. of Pos.	Dim. (mm) A	Dim. (mm) C	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 100	Tape and Reel Size	Tape and Reel Pricing	AMP Part No.
Header Horizontal SMT (Surface Mount)										
4	3	13.8	—	—	A29174TR-ND	—	—	250	658.75	1565994-3
	3	13.8	—	—	A29176TR-ND	—	—	250	658.75	1-1565994-3
	4	15.8	—	—	A29175TR-ND	—	—	200	605.20	1565994-4
	4	15.8	—	—	A29177-ND	5.34	3.83	—	—	1-1565994-4
Junction Box Panel Mount										
5	3	13.8	—	—	A29178-ND	6.10	3.91	—	—	1473571-3
6	3	13.8	—	—	A29186-ND	3.10	1.99	—	—	1473574-3
5	4	15.8	—	—	A29179-ND	2.94	1.89	—	—	1473571-4
6	4	15.8	—	—	A29187-ND	7.26	4.66	—	—	1473574-4
5	6	19.8	—	—	A29180-ND	8.64	5.55	—	—	1473571-6
5	8	23.8	—	—	A29181-ND	4.66	3.00	—	—	1473571-8
Junction Box Free Hanging										
5	3	13.8	—	—	A29182-ND	2.17	1.40	—	—	5-1473571-3
6	3	13.8	—	—	A29188-ND	6.68	4.29	—	—	5-1473574-3
5	4	15.8	—	—	A29183-ND	6.31	4.05	—	—	5-1473571-4
6	4	15.8	—	—	A29189-ND	4.64	2.98	—	—	5-1473574-4
5	6	19.8	—	—	A29184-ND	4.11	2.64	—	—	5-1473571-6
5	8	23.8	—	—	A29185-ND	8.06	5.17	—	—	5-1473571-8

Dynamic Series

D-2000

Material: Black GF Polyester **Flammability:** UL 94V-0 **Voltage Rating:** 250VAC **Current Rating:** 5A **Temperature Rating:** -55°C ~ 105°C

Fig. 1

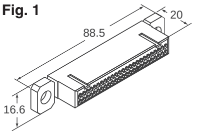

Fig. 2

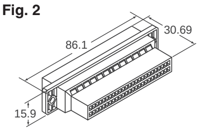

Fig. 3

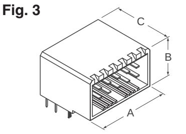

Fig. 4

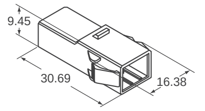

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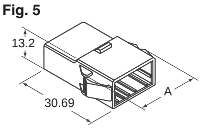

Fig. 6

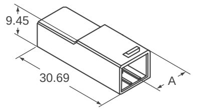

Fig. 7

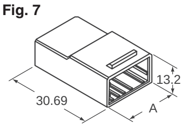

Fig. 8

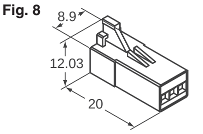

Fig. 9

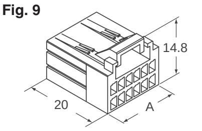

Fig. 10

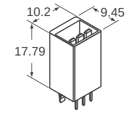

Fig. 11

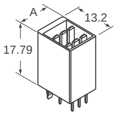

Fig. 12

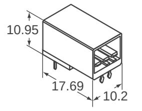

Fig. 13

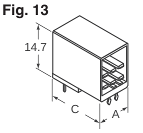

Fig.	No. of Pos.	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C	Description	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
D2100									
1	50	—	—	—	Receptacle Housing Panel Mount	A29815-ND	10.36	6.65	1318577-1
2	50	—	—	—	Tab Housing Panel Mount	A29816-ND	9.12	5.85	1318578-1
2	50	—	—	—	Tab Housing Panel Mount	A29817-ND	19.19	12.31	1318578-2
3	50	68.5	15.35	21.1	Header R/A	A29818-ND	45.15	32.36	1318579-1

Fig.	No. of Pos.	Dim. (mm) A	Dim. (mm) B	Dim. (mm) C	Keying	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
D2100 Tab Housing Panel Mount										
4	3	—	—	—	X	—	A29793-ND	1.69	1.09	1-1318116-3
	3	—	—	—	Y	—	A29794-ND	1.96	1.26	2-1318116-3
5	6	16.38	—	—	X	—	A29777-ND	2.73	1.76	1-1318114-3
	6	16.38	—	—	Y	—	A29778-ND	2.37	1.53	2-1318114-3
	8	18.88	—	—	X	—	A29779-ND	3.45	2.21	1-1318114-4
	8	18.88	—	—	Y	—	A29780-ND	3.18	2.04	2-1318114-4
	12	23.88	—	—	X	—	A29781-ND	3.50	2.25	1-1318114-6
	12	23.88	—	—	Y	—	A29782-ND	3.50	2.25	2-1318114-6
	20	33.88	—	—	X	—	A29783-ND	8.16	5.24	1-1318114-9
	20	33.88	—	—	Y	—	A29784-ND	4.66	3.00	2-1318114-9
D2100 Tab Housing Free Hanging										
6	3	10.2	—	—	X	—	A29795-ND	2.52	1.62	1-1318117-3
	3	10.2	—	—	Y	—	A29796-ND	2.52	1.62	2-1318117-3
7	6	10.2	—	—	X	—	A29785-ND	1.00	.64	1-1318115-3
	6	10.2	—	—	Y	—	A29786-ND	2.85	1.83	2-1318115-3
	8	12.7	—	—	X	—	A29787-ND	3.07	1.98	1-1318115-4
	8	12.7	—	—	Y	—	A29788-ND	2.78	1.79	2-1318115-4
	12	17.7	—	—	X	—	A29789-ND	3.34	2.15	1-1318115-6
	12	17.7	—	—	Y	—	A29790-ND	3.34	2.15	2-1318115-6
	20	27.7	—	—	X	—	A29791-ND	9.17	5.89	1-1318115-9
	20	27.7	—	—	Y	—	A29792-ND	6.20	3.98	2-1318115-9
D2100 Receptacle Housing										
8	3	—	—	—	X	—	A29805-ND	.61	.40	1-1318120-3
	3	—	—	—	Y	—	A29806-ND	1.37	.89	2-1318120-3
9	6	8.9	—	—	X	—	A29801-ND	.83	.54	1-1318119-3
	6	8.9	—	—	Y	—	A29802-ND	1.92	1.24	2-1318119-3
	8	11.4	—	—	X	—	A29803-ND	1.11	.72	1-1318119-4
	8	11.4	—	—	Y	—	A29804-ND	1.87	1.21	2-1318119-4
	12	16.4	—	—	X	—	A29797-ND	1.89	1.22	1-1318118-6
	12	16.4	—	—	Y	—	A29798-ND	2.41	1.55	2-1318118-6
9	20	26.4	—	—	X	—	A29799-ND	1.93	1.25	1-1318118-9
	20	26.4	—	—	Y	—	A29800-ND	1.00	.65	2-1318118-9
D2100 Header Straight										
10	3	—	—	—	X	15µ" Gold	A29807-ND	6.51	4.67	1318123-1
11	6	10.2	—	—	X	15µ" Gold	A29808-ND	7.41	5.32	1318124-1
	8	12.7	—	—	Y	15µ" Gold	A29810-ND	5.88	4.22	1318125-2
	12	17.7	—	—	X	15µ" Gold	A29811-ND	8.04	5.77	1318126-1
	12	17.7	—	—	Y	15µ" Gold	A29812-ND	7.62	5.47	1318126-2
	20	27.7	—	—	X	15µ" Gold	A29813-ND	17.52	12.56	1318127-1
	20	27.7	—	—	Y	15µ" Gold	A29814-ND	13.56	9.72	1318127-2
D2100 Header Right Angle										
12	3	—	—	—	X	15µ" Gold	A29855-ND	7.44	5.34	1376135-1
	3	—	—	—	Y	15µ" Gold	A29863-ND	3.63	2.61	1376135-2
13	6	10.2	—	20.19	X	15µ" Gold	A29856-ND	9.99	7.16	1376136-1
	6	10.2	—	20.19	Y	15µ" Gold	A29857-ND	5.79	4.15	1376136-2
	8	12.7	—	20.19	X	15µ" Gold	A29822-ND	12.42	8.91	1376009-1
	8	12.7	—	20.19	Y	15µ" Gold	A29823-ND	7.17	5.14	1376009-2
	12	17.7	—	20.19	X	15µ" Gold	A29824-ND	12.99	9.31	1376020-1
	12	17.7	—	20.19	Y	15µ" Gold	A29825-ND	9.78	7.01	1376020-2
	20	27.7	—	20.19	X	15µ" Gold	A29858-ND	13.50	9.68	1376137-1
	20	27.7	—	20.19	Y	15µ" Gold	A29859-ND	19.86	14.24	1376137-2

Wire Size AWG	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 100	Tape & Reel Size	Tape & Reel Pricing	AMP Part No.
2000 Series Receptacle Contacts							
18-22	15µ" Gold	A29318-ND	.41	.27	—	—	1318107-1
18-22	15µ" Gold	A29318TR-ND	—	—	10,000	289.65/M	1318105-1
24-28	15µ" Gold	A29319-ND	3.50	2.25	—	—	1318108-1
24-28	15µ" Gold	A29319TR-ND	—	—	10,000	184.66/M	1318106-1
2000 Series Tab Contacts							
18-22	15µ" Gold	A29322-ND	.32	.21	—	—	1318111-1
18-22	15µ" Gold	A29322TR-ND	—	—	9,000	217.25/M	1318109-1
24-28	15µ" Gold	A29323-ND	.43	.28	—	—	1318112-1
24-28	15µ" Gold	A29323TR-ND	—	—	9,000	225.94/M	1318110-1

Description	Digi-Key Part No.	Price Each	AMP Part No.
D2000 Crimp Tool, 24-28 AWG	A30050-ND	551.57	91567-1
D2000 Crimp Tool, 18-22 AWG	A30051-ND	551.57	91595-1

(Continued)

Dynamic Series
D-3000

Material: Black GF Polyester (Orange in part) **Flammability:** UL 94V-0 **Voltage Rating:** 250V AC/DC (for 3.81mm pitch connector), 600V AC/DC (for 5.08mm pitch connector) **Temperature Rating:** -55°C ~ 105°C

Fig. 1

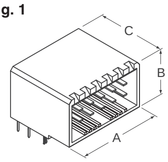

Fig. 2

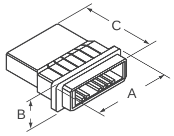

Fig. 3

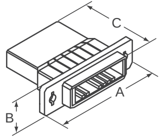

Fig. 4

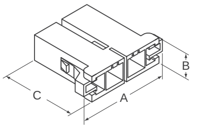

Fig. 5

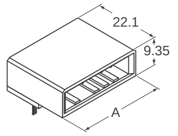

Fig. 6

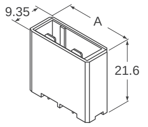

Fig. 7

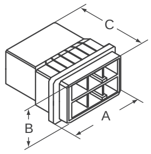

Fig. 8

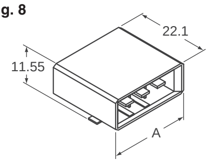

Fig. 9

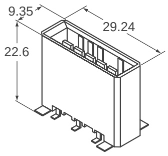

Fig. 10

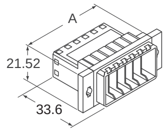

Fig. 11

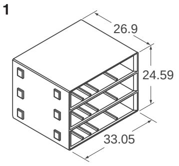

Fig. 12

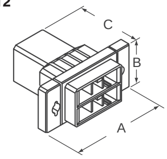

Fig. 13

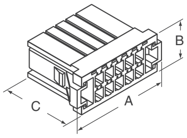

Fig. 14

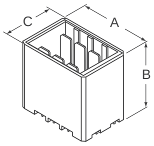

Fig. 15

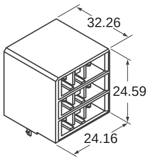

Fig. 16

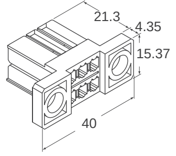

Fig. 17

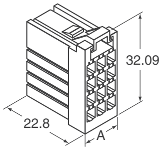

Fig. 18

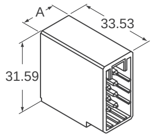

Fig. 19

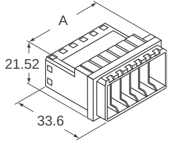

Fig. 20

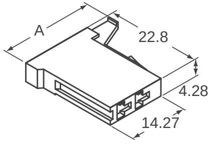

Fig. 21

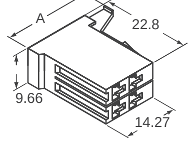

Fig.	No. of Pos.	Dim. (mm) A	B	C	Keying	Body Plating	Digi-Key Part No.	Price Each 1	100	AMP Part No.
D3100 Tab Housing Single Keyed										
2	3	21.62	12.7	33.6	X	—	A29848-ND	1.45	.94	1-177648-3
	3	21.62	12.7	33.6	Y	—	A29849-ND	2.12	1.36	2-177648-3
	5	29.24	12.7	33.6	X	—	A29850-ND	2.00	1.28	1-177648-5
	8	40.67	12.7	33.6	X	—	A29851-ND	3.71	2.38	1-177648-7
	10	48.29	12.7	33.6	X	—	A29852-ND	3.79	2.44	1-177648-8
D3100 Tab Housing Single Row Panel Mount Keyed										
3	3	40.00	12.7	33.6	X	—	A29527-ND	1.46	.94	1-178802-3
	3	40.00	12.7	33.6	Y	—	A29528-ND	1.46	.94	2-178802-3
	5	47.00	12.7	33.6	X	—	A29529-ND	1.71	1.10	1-178802-5
	8	59.00	12.7	33.6	X	—	A29530-ND	2.16	1.39	1-178802-7
	10	67.00	12.7	33.6	X	—	A29531-ND	2.73	1.76	1-178802-8
	10	67.00	12.7	33.6	Y	—	A29532-ND	3.66	2.35	2-178802-8
D3100 Receptacle Housing Single Row Keyed										
4	3	26.76	7.15	22.8	X	—	A29421-ND	1.15	.75	1-178288-3
	3	26.76	7.15	22.8	Y	—	A29422-ND	1.15	.75	2-178288-3
	4	30.57	7.15	22.8	X	—	A29423-ND	1.85	1.19	1-178288-4
	4	30.57	7.15	22.8	Y	—	A29424-ND	3.02	1.94	2-178288-4
	5	34.38	7.15	22.8	X	—	A29425-ND	1.93	1.24	1-178288-5
	6	38.19	7.15	22.8	X	—	A29426-ND	1.66	1.07	1-178288-6
	6	38.19	7.15	22.8	Y	—	A29427-ND	1.96	1.26	2-178288-6
	8	45.81	7.15	22.8	X	—	A29428-ND	1.73	1.12	1-178288-7
	10	53.43	7.15	22.8	X	—	A29429-ND	2.68	1.72	1-178288-8
	10	53.43	7.15	22.8	Y	—	A29430-ND	2.49	1.60	2-178288-8
D3100 Header Right Angle Single Row Keyed										
5	3	21.62	—	—	X	15μ" Gold	A29437-ND	4.92	3.53	1-178293-2
	3	21.62	—	—	Y	15μ" Gold	A29438-ND	5.28	3.79	2-178293-2
	3	21.62	—	—	X	30μ" Gold	A29439-ND	5.28	3.79	1-178293-3
	3	21.62	—	—	Y	30μ" Gold	A29440-ND	5.70	4.09	2-178293-3
	3	21.62	—	—	X	Tin	A29441-ND	4.26	3.06	1-178293-5
	3	21.62	—	—	Y	Tin	A29442-ND	4.86	3.49	2-178293-5
	4	25.43	—	—	X	15μ" Gold	A29443-ND	4.74	3.40	1-178294-2
	4	25.43	—	—	Y	15μ" Gold	A29444-ND	5.76	4.13	2-178294-2
	4	25.43	—	—	X	30μ" Gold	A29445-ND	5.01	3.60	1-178294-3
	4	25.43	—	—	Y	30μ" Gold	A29446-ND	6.42	4.61	2-178294-3
	4	25.43	—	—	X	Tin	A29447-ND	4.38	3.14	1-178294-5
	4	25.43	—	—	Y	Tin	A29448-ND	3.51	2.52	2-178294-5
	5	29.24	—	—	X	15μ" Gold	A29449-ND	5.94	4.26	1-178295-2
	5	29.24	—	—	X	30μ" Gold	A29450-ND	6.15	4.41	1-178295-3
	5	29.24	—	—	X	Tin	A29451-ND	5.58	4.00	1-178295-5
	6	33.05	—	—	X	15μ" Gold	A29452-ND	5.97	4.28	1-178296-2
	6	33.05	—	—	Y	15μ" Gold	A29453-ND	9.30	6.67	2-178296-2
	6	33.05	—	—	X	30μ" Gold	A29454-ND	14.49	10.39	1-178296-3
	6	33.05	—	—	X	Tin	A29456-ND	12.90	9.25	1-178296-5
	6	33.05	—	—	Y	Tin	A29457-ND	8.76	6.28	2-178296-5
	8	40.67	—	—	X	15μ" Gold	A29458-ND	5.31	3.81	1-178297-2
	8	40.67	—	—	X	30μ" Gold	A29459-ND	6.42	4.61	1-178297-3
	8	40.67	—	—	X	Tin	A29460-ND	6.78	4.86	1-178297-5
	10	48.29	—	—	X	15μ" Gold	A29461-ND	6.72	4.82	1-178298-2
	10	48.29	—	—	X	30μ" Gold	A29462-ND	8.19	5.87	1-178298-3
	10	48.29	—	—	X	Tin	A29463-ND	5.73	4.11	1-178298-5
	10	48.29	—	—	Y	15μ" Gold	A29464-ND	6.57	4.71	2-178298-2
	10	48.29	—	—	Y	30μ" Gold	A29465-ND	6.84	4.91	2-178298-3

Fig.	No. of Pos.	Dim. (mm) A	B	C	Keying	Body Plating	Digi-Key Part No.	Price Each 1	100	AMP Part No.
D3100 Header Straight Single Row Keyed										
6	3	21.62	—	—	X	15μ" Gold	A29482-ND	4.56	3.27	1-178313-2
	3	21.62	—	—	X	30μ" Gold	A29483-ND	5.16	3.70	1-178313-3
	3	21.62	—	—	X	Tin	A29484-ND	3.48	2.50	1-178313-5
	3	21.62	—	—	Y	15μ" Gold	A29485-ND	5.13	3.68	2-178313-2
	3	21.62	—	—	Y	30μ" Gold	A29486-ND	5.49	3.94	2-178313-3
	3	21.62	—	—	Y	Tin	A29487-ND	3.93	2.82	2-178313-5
	4	25.43	—	—	X	15μ" Gold	A29488-ND	5.57	3.99	1-178314-2
	4	25.43	—	—	X	30μ" Gold	A29489-ND	4.86	3.49	1-178314-3
	4	25.43	—	—	X	Tin	A29490-ND	5.40	3.87	1-178314-5
	4	25.43	—	—	Y	15μ" Gold	A29491-ND	4.41	3.17	2-178314-2
	4	25.43	—	—	Y	30μ" Gold	A29492-ND	3.45	2.48	2-178314-3
	4	25.43	—	—	Y	Tin	A29493-ND	5.25	3.77	2-178314-5
	5	29.24	—	—	X	15μ" Gold	A29494-ND	4.86	3.49	1-178315-2
	5	29.24	—	—	X	30μ" Gold	A29495-ND	5.34	3.83	1-178315-3
	5	29.24	—	—	X	Tin	A29496-ND	4.98	3.57	1-178315-5
	6	33.05	—	—	X	15μ" Gold	A29497-ND	7.02	5.04	1-178316-2
	6	33.05	—	—	X	30μ" Gold	A29498-ND	5.22	3.75	1-178316-3
	6	33.05	—	—	X	Tin	A29499-ND	5.70	4.09	1-178316-5
	6	33.05	—	—	Y	15μ" Gold	A29500-ND	4.83	3.47	2-178316-2
	6	33.05	—	—	Y	30μ" Gold	A29501-ND	4.50	3.23	2-178316-3
	6	33.05	—	—	Y	Tin	A29502-ND	3.69	2.65	2-178316-5
	8	40.67	—	—	X	15μ" Gold	A29503-ND	6.39	4.58	1-178317-2
	8	40.67	—	—	X	30μ" Gold	A29504-ND	7.53	5.40	1-178317-3
	8	40.67	—	—	X	Tin	A29505-ND	4.83	3.47	1-178317-5
	10	48.29	—	—	X	15μ" Gold	A29506-ND	5.58	4.00	1-178318-2
	10	48.29	—	—	X	30μ" Gold	A29507-ND	5.82	4.18	1-178318-3
	10	48.29	—	—	X	Tin	A29508-ND	4.56	3.27	1-178318-5
	10	48.29	—	—	Y	15μ" Gold	A29509-ND	5.58	4.00	2-178318-2
	10	48.29	—	—	Y	Tin	A29511-ND	4.56	3.27	2-178318-5
D3100 Header Right Angle Single Row										
8	5	29.24	—	—	—	15μ" Gold	A29853-ND	5.01	3.60	1-177662-2
	8	40.67	—	—	—	30μ" Gold	A29544-ND	25.71	18.43	1-179188-3
D3100 Header Single Row Straight										
9	5	—	—	—	—	15μ" Gold	A29352-ND	7.83	5.62	1-177665-2
D3100 Tab Housing Dual Row										
7	6	25.57	17.78	33.6	—	—	A29538-ND	2.76	1.78	178964-3
	10	33.19	17.78	33.6	—	—	A29539-ND	2.72	1.75	178964-5
	12	37.00	17.78	33.6	—	—	A29540-ND	3.12	2.01	178964-6
	16	44.62	17.78	33.6	—	—	A29541-ND	4.19	2.69	178964-7
	20	52.24	17.78	33.6	—	—	A29542-ND	3.90	2.51	178964-8
D3100 Tab Housing Dual Row Panel Mount										
12	6	40.00	17.78	33.6	—	—	A29533-ND	2.39	1.54	178803-3
	10	47.00	17.78	33.6	—	—	A29534-ND	2.72	1.75	178803-5
	12	51.00	17.78	33.6	—	—	A29535-ND	3.79	2.43	178803-6
	16	59.00	17.78	33.6	—	—	A29536-ND	4.19	2.69	178803-7
	20	67.00	17.78	33.6	—	—	A29537-ND	3.90	2.51	178803-8
D3100 Receptacle Housing Dual Row										
13	6	24.36	12.23	22.8	—	—	A29431-ND	1.61	1.04	178289-3
	8	28.17	12.23	22.8	—	—	A29432-ND	1.94	1.25	178289-4
	10	31.98	12.23	22.8	—	—	A29433-ND	1.88	1.21	178289-5
	12	35.79	12.23	22.8	—	—	A29434-ND	2.45	1.58	178289-6

(Continued)

Fig.	No. of Pos.	Dim. (mm)			Keying	Body Plating	Digi-Key Part No.	Price Each		AMP Part No
		A	B	C				1	100	
13	16	42.71	12.23	22.8	—	—	A29435-ND	2.22	1.43	178289-7
	20	51.03	12.23	22.8	—	—	A29436-ND	2.41	1.55	178289-8
D3100 Header Right Angle Dual Row										
1	6	21.62	14.43	25.91	—	15µ" Gold	A29467-ND	6.54	4.69	178303-2
	6	21.62	14.43	25.91	—	30µ" Gold	A29468-ND	7.32	5.25	178303-3
	6	21.62	14.43	25.91	—	Tin	A29469-ND	5.76	4.13	178303-5
	10	29.24	14.43	25.91	—	15µ" Gold	A29470-ND	7.50	5.38	178305-2
	10	29.24	14.43	25.91	—	30µ" Gold	A29471-ND	9.93	7.12	178305-3
	10	29.24	14.43	25.91	—	Tin	A29472-ND	7.41	5.32	178305-5
	12	33.05	14.43	25.91	—	15µ" Gold	A29473-ND	6.75	4.84	178306-2
	12	33.05	14.43	25.91	—	30µ" Gold	A29474-ND	11.16	8.00	178306-3
	12	33.05	14.43	25.91	—	Tin	A29475-ND	7.11	5.10	178306-5
	16	40.67	14.43	25.91	—	15µ" Gold	A29476-ND	10.08	7.23	178307-2
	16	40.67	14.43	25.91	—	30µ" Gold	A29477-ND	11.70	8.39	178307-3
	16	40.67	14.43	25.91	—	Tin	A29478-ND	9.66	6.93	178307-5
	20	48.29	14.43	25.91	—	15µ" Gold	A29479-ND	8.70	6.24	178308-2
	20	48.29	14.43	25.91	—	30µ" Gold	A29480-ND	10.47	7.51	178308-3
	20	48.29	14.43	25.91	—	Tin	A29481-ND	6.90	4.95	178308-5
D3100 Header Straight Dual Row										
14	6	21.62	21.6	14.43	—	15µ" Gold	A29512-ND	4.92	3.53	178323-2
	6	21.62	21.6	14.43	—	30µ" Gold	A29513-ND	5.76	4.13	178323-3
	6	21.62	21.6	14.43	—	Tin	A29514-ND	5.07	3.64	178323-5
	10	29.24	21.6	14.43	—	15µ" Gold	A29515-ND	7.65	5.49	178325-2
	10	29.24	21.6	14.43	—	30µ" Gold	A29516-ND	7.89	5.66	178325-3
	10	29.24	21.6	14.43	—	Tin	A29517-ND	6.66	4.78	178325-5
	12	33.05	21.6	14.43	—	15µ" Gold	A29518-ND	7.59	5.44	178326-2
	12	33.05	21.6	14.43	—	30µ" Gold	A29519-ND	9.09	6.52	178326-3
	12	33.05	21.6	14.43	—	Tin	A29520-ND	5.97	4.28	178326-5
	16	40.67	21.6	14.43	—	15µ" Gold	A29521-ND	9.42	6.76	178327-2
	16	40.67	21.6	14.43	—	30µ" Gold	A29522-ND	11.28	8.09	178327-3
	16	40.67	21.6	14.43	—	Tin	A29523-ND	9.15	6.56	178327-5
	20	48.29	21.6	14.43	—	15µ" Gold	A29524-ND	8.25	5.92	178328-2
	20	48.29	21.6	14.43	—	30µ" Gold	A29525-ND	10.02	7.19	178328-3
	20	48.29	21.6	14.43	—	Tin	A29526-ND	6.09	4.37	178328-5
D3100 Receptacle Housing Dual Row Keyed										
13	6	24.76	14.77	22.8	XX	—	A29354-ND	2.20	1.42	1-178127-6
	6	24.76	14.77	22.8	YY	—	A29355-ND	2.02	1.30	2-178127-6
	6	24.76	14.77	22.8	XY	—	A29356-ND	1.56	1.00	3-178127-6
D3100 Header Right Angle Dual Row Keyed										
1	6	25.91	16.97	21.62	XX	15µ" Gold	A29376-ND	5.97	4.28	1-178137-2
	6	25.91	16.97	21.62	XX	30µ" Gold	A29377-ND	7.35	5.27	1-178137-3
	6	25.91	16.97	21.62	XX	Tin	A29378-ND	5.82	4.18	1-178137-5
	6	25.91	16.97	21.62	YY	15µ" Gold	A29379-ND	5.37	3.85	2-178137-2
	6	25.91	16.97	21.62	YY	Tin	A29381-ND	5.82	4.18	2-178137-5
	6	25.91	16.97	21.62	XY	15µ" Gold	A29382-ND	5.97	4.28	3-178137-2
	6	25.91	16.97	21.62	XY	30µ" Gold	A29383-ND	8.04	5.77	3-178137-3
	6	25.91	16.97	21.62	XY	Tin	A29384-ND	5.82	4.18	3-178137-5
D3100 Header Straight Dual Row Keyed										
14	6	21.62	21.6	16.97	XX	15µ" Gold	A29411-ND	5.73	4.11	1-178141-2
	6	21.62	21.6	16.97	XX	30µ" Gold	A29412-ND	5.79	4.15	1-178141-3
	6	21.62	21.6	16.97	XX	Tin	A29413-ND	5.07	3.64	1-178141-5
	6	21.62	21.6	16.97	XY	15µ" Gold	A29414-ND	5.01	3.60	3-178141-2
	6	21.62	21.6	16.97	XY	30µ" Gold	A29415-ND	5.91	4.24	3-178141-3
	6	21.62	21.6	16.97	XY	Tin	A29416-ND	4.35	3.12	3-178141-5
D3100 Tab Housing 3Row										
11	18	—	—	—	—	—	A29860-ND	15.50	9.95	1376807-1
	18	—	—	—	—	—	A29861-ND	13.73	8.81	1376807-2

Fig.	No. of Pos.	Dim. (mm)			Keying	Body Plating	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C				1	100	
D3200 Tab Housing Free Hanging Keyed										
2	2	19.08	12.7	33.6	X	—	A29557-ND	1.59	1.02	1-179552-2
	2	19.08	12.7	33.6	Y	—	A29558-ND	1.40	.90	2-179552-2
	3	24.16	12.7	33.6	X	—	A29559-ND	1.59	1.02	1-179552-3
	3	24.16	12.7	33.6	Y	—	A29560-ND	1.57	1.01	2-179552-3
	4	29.24	12.7	33.6	X	—	A29561-ND	3.00	1.93	1-179552-4
	4	29.24	12.7	33.6	Y	—	A29562-ND	2.56	1.64	2-179552-4
7	6	28.11	20.32	33.6	XX	—	A29569-ND	2.38	1.53	1-179554-3
	6	28.11	20.32	33.6	YY	—	A29570-ND	2.89	1.86	2-179554-3
	6	28.11	20.32	33.6	XY	—	A29571-ND	2.38	1.53	3-179554-3
	12	43.35	20.32	33.6	XX	—	A29572-ND	3.39	2.18	1-179554-6
	12	43.35	20.32	33.6	YY	—	A29573-ND	3.92	2.52	2-179554-6
	12	43.35	20.32	33.6	XY	—	A29574-ND	5.33	3.42	3-179554-6
D3200 Panel Mount										
16	6	—	—	—	—	—	A29686-ND	2.54	1.63	1-917266-3
D3200 Tab Housing Panel Mount Keyed										
3	2	36.83	12.7	33.6	X	—	A29563-ND	1.93	1.24	1-179553-2
	2	36.83	12.7	33.6	Y	—	A29564-ND	1.79	1.15	2-179553-2
	3	41.91	12.7	33.6	X	—	A29565-ND	1.74	1.12	1-179553-3
	3	41.91	12.7	33.6	Y	—	A29566-ND	1.74	1.12	2-179553-3
	4	46.99	12.7	33.6	X	—	A29567-ND	1.86	1.20	1-179553-4
	4	46.99	12.7	33.6	Y	—	A29568-ND	2.33	1.50	2-179553-4
12	6	41.91	20.32	33.6	XX	—	A29575-ND	2.90	1.86	1-179555-3
	6	41.91	20.32	33.6	YY	—	A29576-ND	2.90	1.86	2-179555-3
	6	41.91	20.32	33.6	XY	—	A29577-ND	2.90	1.86	3-179555-3
	12	57.91	20.32	33.6	XX	—	A29578-ND	3.15	2.02	1-179555-6
	12	57.91	20.32	33.6	YY	—	A29579-ND	3.84	2.47	2-179555-6
	12	57.91	20.32	33.6	XY	—	A29580-ND	3.15	2.02	3-179555-6
	20	78.23	20.32	33.6	XX	—	A29581-ND	3.58	2.30	1-179555-8
D3200 Receptacle Housing Keyed										
4	2	24.62	7.15	22.8	X	—	A29357-ND	1.15	.74	1-178128-2
	2	24.62	7.15	22.8	Y	—	A29358-ND	1.15	.74	2-178128-2
	3	29.7	7.15	22.8	X	—	A29359-ND	1.21	.78	1-178128-3
	3	29.7	7.15	22.8	Y	—	A29360-ND	1.21	.78	2-178128-3
	4	34.78	7.15	22.8	X	—	A29361-ND	1.45	.94	1-178128-4
	4	34.78	7.15	22.8	Y	—	A29362-ND	1.45	.94	2-178128-4
4	5	39.86	7.15	22.8	X	—	A29363-ND	1.79	1.15	1-178128-5
	5	39.86	7.15	22.8	Y	—	A29364-ND	2.04	1.31	2-178128-5
	6	44.94	7.15	22.8	X	—	A29365-ND	2.67	1.72	1-178128-6
	6	44.94	7.15	22.8	Y	—	A29366-ND	1.88	1.21	2-178128-6
13	6	27.3	14.77	22.8	XX	—	A29367-ND	1.72	1.11	1-178129-6
	6	27.3	14.77	22.8	YY	—	A29368-ND	1.96	1.26	2-178129-6
	6	27.3	14.77	22.8	XY	—	A29369-ND	1.72	1.11	3-178129-6
	10	37.46	14.77	22.8	XX	—	A29733-ND	3.15	2.03	1-917659-5
	10	37.46	14.77	22.8	YY	—	A29734-ND	3.39	2.18	2-917659-5
	10	37.46	14.77	22.8	XY	—	A29735-ND	3.07	1.98	3-917659-5
	12	42.54	14.77	22.8	XX	—	A29736-ND	2.15	1.38	1-917659-6
	12	42.54	14.77	22.8	YY	—	A29737-ND	2.99	1.93	2-917659-6
	12	42.54	14.77	22.8	XY	—	A29738-ND	2.81	1.81	3-917659-6
	20	62.86	14.77	22.8	XX	—	A29739-ND	3.66	2.35	1-917659-8
D3200 Header Straight Keyed										
6	2	19.08	—	—	X	15µ" Gold	A29687-ND	3.48	2.50	1-917337-2
	2	19.08	—	—	X	30µ" Gold	A29688-ND	3.75	2.69	1-917337-3
	2	19.08	—	—	X	Tin	A29689-ND	3.27	2.35	1-917337-5
	2	19.08	—	—	Y	15µ" Gold	A29690-ND	4.59	3.29	2-917337-2
	2	19.08	—	—	Y	30µ" Gold	A29691-ND	4.89	3.51	2-917337-3
	2	19.08	—	—	Y	Tin	A29692-ND	4.23	3.04	2-917337-5
	3	24.16	—	—	X	15µ" Gold	A29370-ND	3.90	2.80	1-178136-2
	3	24.16	—	—	X	30µ" Gold	A29371-ND	3.27	2.35	1-178136-3
	3	24.16	—	—	X	Tin	A29372-ND	3.66	2.63	1-178136-5
	3	24.16	—	—	Y	15µ" Gold	A29373-ND	3.90	2.80	2-178136-2
	3	24.16	—	—	Y	30µ" Gold	A29374-ND	4.32	3.10	2-178136-3
	3	24.16	—	—	Y	Tin	A29375-ND	3.66	2.63	2-178136-5
	4	29.24	—	—	X	15µ" Gold	A29693-ND	4.17	2.99	1-917338-2
	4	29.24	—	—	X	30µ" Gold	A29694-ND	5.28	3.79	1-917338-3
	4	29.24	—	—	X	Tin	A29695-ND	3.90	2.80	1-917338-5
	4	29.24	—	—	Y	15µ" Gold	A29696-ND	4.50	3.23	2-917338-2
	4	29.24	—	—	Y	30µ" Gold	A29697-ND	2.64	1.90	2-917338-3
	4	29.24	—	—	Y	Tin	A29698-ND	5.25	3.77	2-917338-5
	5	34.32	—	—	X	15µ" Gold	A29628-ND	3.66	2.63	1-316132-2
	5	34.32	—	—	X	30µ" Gold	A29629-ND	3.99	2.86	1-316132-3
	5	34.32	—	—	X	Tin	A29630-ND	5.31	3.81	1-316132-5
	5	34.32	—	—	Y	15µ" Gold	A29631-ND	3.66	2.63	2-316132-2
	5	34.32	—	—	Y	30µ" Gold	A29632-ND	3.99	2.86	2-316132-3
	5	34.32	—	—	Y	Tin	A29633-ND	5.31	3.81	2-316132-5
	6	39.4	—	—	X	15µ" Gold	A29634-ND	3.93	2.82	1-316133-2
	6	39.4	—	—	X	30µ" Gold	A29635-ND	4.44	3.19	1-316133-3
	6	39.4	—	—	Y	15µ" Gold	A29637-ND	4.77	3.42	2-316133-2
	6	39.4	—	—	Y	30µ" Gold	A29638-ND	3.36	2.41	2-316133-3
14	6	24.16	21.6	16.97	XX	15µ" Gold	A29401-ND	4.11	2.95	1-178140-2
	6	24.16	21.6	16.97	XX	30µ" Gold	A29402-ND	4.65	3.34	1-178140-3
	6	24.16	21.6	16.97	XX	Tin	A29403-ND	3.48	2.50	1-178140-5
	6	24.16	21.6	16.97	YY	15µ" Gold	A29405-ND	4.11	2.95	2-178140-2
	6	24.16	21.6	16.97	YY	30µ" Gold	A29406-ND	4.65	3.34	2-178140-3
	6	24.16	21.6	16.97	YY	Tin	A29407-ND	3.48	2.50	2-178140-5
	6	24.16	21.6	16.97	XY	15µ" Gold	A29408-ND	4.11	2.95	3-178140-2
	6	24.16	21.6	16.97	XY	30µ" Gold	A29409-ND	4.65	3.34	3-178140-3
	6	24.16	21.6	16.97	XY	Tin	A29410-ND	3.39	2.43	3-178140-5
	10	34.32	21.6	16.97	XX	15µ" Gold	A29715-ND	5.49	3.94	1-917657-2
	10	34.32	21.6	16.97	XX	30µ" Gold	A29716-ND	6.15	4.41	1-917657-3
	10	34.32	21.6	16.97	XX	Tin	A29717-ND	4.50	3.23	1-917657-5
	10	34.32	21.6	16.97	YY	15µ" Gold	A29718-ND	4.95	3.55	2-917657-2
	10	34.32	21.6	16.97	YY	30µ" Gold	A29719-ND	6.06	4.35	2-917657-3
	10	34.32	21.6	16.97	YY	Tin	A29720-ND	4.38	3.14	2-917657-5
	10	34.32	21.6	16.97	XY	15µ" Gold	A29721-ND	5.49	3.94	3-917657-2
	10	34.32	21.6	16.97	XY	30µ" Gold	A29722-ND	8.28	5.94	3-917657-3
	10	34.32	21.6	16.97	XY	Tin	A29723-ND	4.47	3.21	3-917657-5
	12	39.4	21.6	16.97	XX	15µ" Gold	A29724-ND	6.18	4.43	1-917658-2
	12	39.4	21.6	16.97	XX	30µ" Gold	A29725-ND	10.29	7.38	1-917658-3
	12	39.4	21.6	16.97	XX	Tin	A29726-ND	5.07	3.64	1-917658-5
	12	39.4	21.6	16.97	YY	15µ" Gold	A29727-ND	6.15	4.41	2-917658-2
	12	39.4	21.6	16.97	YY	30µ" Gold	A29728-ND	10.02	7.19	2-917658-3
	12	39.4	21.6	16.97	YY	Tin	A29729-ND	5.07	3.64	2-917658-5
	12	39.4	21.6	16.97	XY	15µ" Gold	A29730-ND	5.76	4.13	3-917658-2
	12	39.4	21.6	16.97	XY	30µ" Gold	A29731-ND	7.41	5.32	3-917658-3
	12	39.4	21.6	16.97	XY	Tin	A29732-ND	5.31	3.81	3-917658-5
D3200 Header Right Angle Keyed										
5	2	19.08	—	—	X	15µ" Gold	A29545-ND	3.63	2.61	1-179276-2
	2	19.08	—	—	X	30µ" Gold	A29546-ND	3.72	2.67	1-179276-3
	2	19.08	—	—	X	Tin	A29547-ND	3.45	2.48	1-179276-5
	2	19.08	—	—	Y	15µ" Gold	A29548-ND	3.30	2.37	2-179276-2
	2	19.08	—	—	Y	30µ" Gold	A29549-ND	3.45	2.48	2-179276-3
	3	24.16	—	—	X	15µ" Gold	A29385-ND	3.99	2.86	1-178138-2
	3	24.16	—	—	X	30µ" Gold	A29386-ND	4.29	3.08	1-178138-3
	3	24.16	—	—	X	Tin	A29387-ND	3.72	2.67	1-178138-5
	3	24.16	—	—	Y	15µ" Gold	A29388-ND	3.99	2.86	2-178138-2
	3	24.16	—	—	Y	30µ" Gold	A29389-ND	4.32	3.10	2-178138-3
	3	24.16	—	—	Y	Tin	A29390-ND	3.72	2.67	2-178138-5
	4	29.24	—	—	X	15µ" Gold	A29551-ND	4.32	3.10	1-179277-2
	4	29.24	—	—	X	30µ" Gold	A29552-ND	6.93	4.97	1-179277-3
	4	29.24	—	—	X	Tin	A29553-ND	3.93	2.82	1-179277-5
	4	29.24	—	—	Y	15µ" Gold	A29554-ND	3.99	2.86	2-179277-2
	4	29.24	—	—	Y	30µ" Gold	A29555-ND	4.32	3.10	2-179277-3
	4	29.24	—	—	Y	Tin	A29556-ND	3.66	2.63	2-179277-5
	5	34.32	—	—	X	15µ" Gold	A29616-ND	7.11	5.10	1-316130-2
	5	34.32	—	—	X	30µ" Gold	A29617-ND	7.17	5.14	1-316130-3
	5	34.32	—	—	X	Tin	A29618-ND	4.38	3.14	1-316130-5
	5	34.32	—	—	Y	30µ" Gold	A29620-ND	5.13	3.68	2-316130-3
	6	39.4	—	—	X	15µ" Gold	A29622-ND	8.31	5.96	1-316131-2
	6	39.4	—	—	X	30µ" Gold	A29623-ND	4.89	3.51	1-316131-3

(Continued)

Fig.	No. of Pos.	Dim. (mm)			Keying	Body Plating	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C				1	100	
5	6	39.4	—	—	X	Tin	A29624-ND	4.38	3.14	1-316131-5
	6	39.4	—	—	Y	15µ” Gold	A29625-ND	8.91	6.39	2-316131-2
	6	39.4	—	—	Y	Tin	A29627-ND	5.52	3.96	2-316131-5
1	6	27.18	16.97	24.16	XX	15µ” Gold	A29391-ND	5.07	3.64	1-178139-2
	6	27.18	16.97	24.16	YY	15µ” Gold	A29392-ND	5.43	3.90	2-178139-2
	6	27.18	16.97	24.16	XY	15µ” Gold	A29393-ND	5.34	3.83	3-178139-2
	6	27.18	16.97	24.16	XY	15µ” Gold	A29394-ND	3.72	2.67	4-178139-2
	6	27.18	16.97	24.16	XX	30µ” Gold	A29395-ND	5.64	4.05	1-178139-3
	6	27.18	16.97	24.16	YY	30µ” Gold	A29396-ND	5.94	4.26	2-178139-3
	6	27.18	16.97	24.16	XY	30µ” Gold	A29397-ND	5.64	4.05	3-178139-3
	6	27.18	16.97	24.16	XX	Tin	A29398-ND	4.47	3.21	1-178139-5
	6	27.18	16.97	24.16	YY	Tin	A29399-ND	4.77	3.42	2-178139-5
	6	27.18	16.97	24.16	XY	Tin	A29400-ND	4.44	3.19	3-178139-5
15	9	—	—	—	XXX	15µ” Gold	A29768-ND	10.41	7.47	1-1123624-2
	9	—	—	—	XXX	Tin	A29769-ND	10.05	7.21	1-1123624-5
	9	—	—	—	XXY	15µ” Gold	A29770-ND	11.82	8.48	3-1123624-2
	9	—	—	—	XXY	Tin	A29771-ND	9.87	7.08	3-1123624-5
	9	—	—	—	YYX	15µ” Gold	A29772-ND	7.77	5.57	4-1123624-2
	9	—	—	—	YYX	Tin	A29773-ND	8.70	6.24	4-1123624-5
	9	—	—	—	XYX	15µ” Gold	A29774-ND	9.99	7.16	5-1123624-2
	9	—	—	—	XYX	Tin	A29775-ND	10.05	7.21	5-1123624-5
1	10	34.32	16.97	27.18	XX	15µ” Gold	A29598-ND	9.90	7.10	1-316080-2
	10	34.32	16.97	27.18	XX	30µ” Gold	A29599-ND	7.44	5.34	1-316080-3
	10	34.32	16.97	27.18	XX	Tin	A29600-ND	5.79	4.15	1-316080-5
	10	34.32	16.97	27.18	YY	15µ” Gold	A29601-ND	3.90	2.80	2-316080-2
	10	34.32	16.97	27.18	YY	30µ” Gold	A29602-ND	4.14	2.97	2-316080-3
	10	34.32	16.97	27.18	YY	Tin	A29603-ND	12.84	9.21	2-316080-5
	10	34.32	16.97	27.18	XY	15µ” Gold	A29604-ND	6.54	4.69	3-316080-2
	10	34.32	16.97	27.18	XY	30µ” Gold	A29605-ND	7.23	5.19	3-316080-3
	10	34.32	16.97	27.18	XY	Tin	A29606-ND	5.67	4.07	3-316080-5
	12	39.4	16.97	27.18	XX	15µ” Gold	A29607-ND	11.43	8.20	1-316081-2
	12	39.4	16.97	27.18	XX	30µ” Gold	A29608-ND	7.77	5.57	1-316081-3
	12	39.4	16.97	27.18	XX	Tin	A29609-ND	6.63	4.76	1-316081-5
	12	39.4	16.97	27.18	YY	15µ” Gold	A29610-ND	6.51	4.67	2-316081-2
	12	39.4	16.97	27.18	YY	30µ” Gold	A29611-ND	8.70	6.24	2-316081-3
	12	39.4	16.97	27.18	YY	Tin	A29612-ND	7.56	5.42	2-316081-5
	12	39.4	16.97	27.18	XY	15µ” Gold	A29613-ND	7.56	5.42	3-316081-2
	12	39.4	16.97	27.18	XY	30µ” Gold	A29614-ND	7.62	5.47	3-316081-3
D3200 Header Right Angle Surface Mount Keyed										
8	3	24.16	—	—	X	15µ” Gold	A29699-ND	9.96	7.14	1-917389-2

Fig.	No. of Pos.	Dim. (mm) A	Body Plating	Digi-Key Part No.	Price Each		AMP Part No.
					1	100	
D3400 Receptacle Housing							
17	12	12.22	—	A29417-ND	2.54	1.63	178214-1
	20	19.84	—	A29682-ND	2.17	1.39	917249-1
D3400 Header Right Angle							
18	12	15.02	15µ” Gold	A29418-ND	17.13	12.28	178216-2
	12	15.02	30µ” Gold	A29419-ND	12.57	9.01	178216-3
	12	15.02	Tin	A29420-ND	12.48	8.95	178216-5
	20	22.64	15µ” Gold	A29683-ND	18.21	13.06	917251-2
	20	22.64	30µ” Gold	A29684-ND	21.51	15.42	917251-3
	20	22.64	Tin	A29685-ND	16.35	11.72	917251-5

Fig.	No. of Pos.	Dim. (mm)			Body Plating	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C			1	100	
D3500 Tab Housing Free Hanging									
19	12	36.43	—	—	—	A29678-ND	5.43	3.49	917242-6
	12	36.43	—	—	—	A29680-ND	3.92	2.52	3-917242-6
	20	56.75	—	—	—	A29679-ND	6.55	4.20	917242-8
	20	56.75	—	—	—	A29681-ND	3.15	2.03	3-917242-8
D3500 Receptacle Housing									
20	2	21.0	—	—	—	A29334-ND	1.28	.83	175362-1
	2	21.0	—	—	—	A29839-ND	1.78	1.15	175362-2
21	4	21.0	—	—	—	A29840-ND	1.26	.81	175363-1
	4	17.2	—	—	—	A29841-ND	1.62	1.04	175363-2
D3500 Header Straight									
14	12	32.48	18.17	21.6	15µ” Gold	A29640-ND	6.00	4.30	316516-2
	12	32.48	18.17	21.6	30µ” Gold	A29641-ND	6.90	4.95	316516-3
	12	32.48	18.17	21.6	Tin	A29642-ND	4.98	3.57	316516-5
	20	52.8	18.17	21.6	15µ” Gold	A29643-ND	15.09	10.82	316517-2
	20	52.8	18.17	21.6	30µ” Gold	A29644-ND	9.99	7.16	316517-3
	20	52.8	18.17	21.6	Tin	A29645-ND	11.79	8.45	316517-5
D3500 Header Right Angle									
1	4	27.18	18.17	12.16	15µ” Gold	A29854-ND	3.21	2.31	1376133-2
	12	32.48	18.17	27.18	15µ” Gold	A29845-ND	9.30	6.67	177555-2
	12	32.48	18.17	27.18	30µ” Gold	A29846-ND	7.02	5.04	177555-3
	12	32.48	18.17	27.18	Tin	A29847-ND	5.79	4.15	177555-5
	20	52.8	18.17	27.18	15µ” Gold	A29842-ND	11.82	8.48	175365-2
	20	52.8	18.17	27.18	30µ” Gold	A29843-ND	14.07	10.09	175365-3
	20	52.8	18.17	27.18	Tin	A29844-ND	10.38	7.44	175365-5
D3500 Tab Housing Dual Row									
10	12	52.00	—	—	—	A29674-ND	3.44	2.21	917241-6
	12	52.00	—	—	—	A29676-ND	4.05	2.61	3-917241-6
	20	72.00	—	—	—	A29675-ND	5.29	3.40	917241-8
	20	72.00	—	—	—	A29677-ND	4.43	2.84	3-917241-8

Wire Size AWG	Body Plating	Digi-Key Part No.	Price Each		Tape & Reel		AMP Part No.
			1	100	Size	Pricing	
D3000 Receptacle Contacts							
14-16	15µ” Gold	A29283TR-ND	—	—	3,000	846.86/M	353715-2
14-16	15µ” Gold	A29285TR-ND	—	—	3,000	730.10/M	1-353715-2
14-16	15µ” Gold	A29283-ND	1.32	.85	—	—	353717-2
14-16	15µ” Gold	A29299TR-ND	—	—	3,000	822.42/M	917484-2
14-16	15µ” Gold	A29301TR-ND	—	—	3,000	1072.74/M	1-917484-2
14-16	15µ” Gold	A29299-ND	.80	.52	—	—	917511-2
14-16	15µ” Gold	A29301-ND	1.37	.89	—	—	1-917511-2
14-16	30µ” Gold	A29284TR-ND	—	—	3,000	1294.24/M	353715-3
14-16	30µ” Gold	A29286TR-ND	—	—	3,000	876.12/M	1-353715-3
14-16	30µ” Gold	A29286-ND	1.56	1.01	—	—	1-353717-3
14-16	30µ” Gold	A29300TR-ND	—	—	3,000	963.68/M	917484-3
14-16	30µ” Gold	A29302TR-ND	—	—	3,000	911.16/M	1-917484-3
14-16	30µ” Gold	A29300-ND	.94	.61	—	—	917511-3
14-16	30µ” Gold	A29302-ND	1.61	1.04	—	—	1-917511-3
14-16	Tin	A29287TR-ND	—	—	3,000	393.30/M	1-353715-5
14-16	Tin	A29287-ND	.58	.38	—	—	1-353717-5
14-16	Tin	A29303TR-ND	—	—	3,000	455.58/M	1-917484-5
14-16	Tin	A29303-ND	.56	.36	—	—	1-917511-5
16-20	15µ” Gold	A29225TR-ND	—	—	3,000	559.62/M	175196-2
16-20	15µ” Gold	A29225-ND	.80	.52	—	—	175218-2
16-20	15µ” Gold	A29227TR-ND	—	—	3,000	559.62/M	1-175196-2
16-20	15µ” Gold	A29227-ND	.80	.52	—	—	1-175218-2
16-20	30µ” Gold	A29226TR-ND	—	—	3,000	661.40/M	175196-3
16-20	30µ” Gold	A29226-ND	.94	.61	—	—	175218-3
16-20	30µ” Gold	A29228TR-ND	—	—	3,000	661.40/M	1-175196-3
16-20	30µ” Gold	A29228-ND	.94	.61	—	—	1-175218-3
16-20	Tin	A29229TR-ND	—	—	3,000	373.50/M	1-175196-5
16-20	Tin	A29229-ND	.56	.36	—	—	1-175218-5
20-24	15µ” Gold	A29220TR-ND	—	—	3,500	559.62/M	175195-2
20-24	15µ” Gold	A29220-ND	.69	.45	—	—	175217-2
20-24	15µ” Gold	A29222TR-ND	—	—	3,500	559.62/M	1-175195-2
20-24	15µ” Gold	A29222-ND	.80	.52	—	—	1-175217-2
20-24	30µ” Gold	A29221TR-ND	—	—	3,500	1022.68/M	175195-3
20-24	30µ” Gold	A29221-ND	1.43	.92	—	—	175217-3
20-24	30µ” Gold	A29223TR-ND	—	—	3,500	661.40/M	1-175195-3
20-24	30µ” Gold	A29223-ND	.94	.61	—	—	1-175217-3
20-24	Tin	A29224TR-ND	—	—	3,500	373.50/M	1-175195-5
20-24	Tin	A29224-ND	.56	.36	—	—	1-175217-5
24-28	15µ” Gold	A29215TR-ND	—	—	4,000	847.42/M	175194-2
24-28	15µ” Gold	A29215-ND	.80	.52	—	—	175216-2
24-28	15µ” Gold	A29217TR-ND	—	—	4,000	859.98/M	1-175194-2
24-28	15µ” Gold	A29217-ND	.80	.52	—	—	1-175216-2
24-28	30µ” Gold	A29216TR-ND	—	—	4,000	773.90/M	175194-3
24-28	30µ” Gold	A29216-ND	1.09	.70	—	—	175216-3
24-28	30µ” Gold	A29218TR-ND	—	—	4,000	1115.68/M	1-175194-3
24-28	30µ” Gold	A29218-ND	.94	.61	—	—	1-175216-3
24-28	Tin	A29219TR-ND	—	—	4,000	464.88/M	1-175194-5
24-28	Tin	A29219-ND	.56	.36	—	—	1-175216-5
D3000 Tab Contacts							
14-16	15µ” Gold	A29288TR-ND	—	—	4,000	613.24/M	353716-2
14-16	15µ” Gold	A29288-ND	.68	.44	—	—	353718-2
14-16	15µ” Gold	A29304TR-ND	—	—	3,000	422.60/M	917485-2
14-16	15µ” Gold	A29304-ND	.63	.41	—	—	917512-2
14-16	30µ” Gold	A29289TR-ND	—	—	4,000	708.78/M	353716-3
14-16	30µ” Gold	A29289-ND	1.33	.86	—	—	353718-3
14-16	30µ” Gold	A29305TR-ND	—	—	3,000	551.26/M	917485-3
14-16	30µ” Gold	A29305-ND	1.43	.92	—	—	917512-3
14-16	Tin	A29290TR-ND	—	—	4,000	438.06/M	353716-5
14-16	Tin	A29290-ND	.45	.30	—	—	353718-5
14-16	Tin	A29306TR-ND	—	—	3,000	408.80/M	917485-5
14-16	Tin	A29306-ND	.83	.54	—	—	917512-5
16-20	15µ” Gold	A29251TR-ND	—	—	3,000	465.84/M	175286-2
16-20	15µ” Gold	A29251-ND	.68	.44	—	—	175289-2
16-20	30µ” Gold	A29252TR-ND	—	—	3,000	548.46/M	175286-3
16-20	30µ” Gold	A29252-ND	.79	.51	—	—	175289-3
16-20	Tin	A29253TR-ND	—	—	3,000	339.50/M	175286-5
16-20	Tin	A29253-ND	.51	.33	—	—	175289-5
20-24	15µ” Gold	A29248TR-ND	—	—	3,500	465.84/M	175285-2
20-24	15µ” Gold	A29248-ND	.68	.44	—	—	175288-2
20-24	30µ” Gold	A29249TR-ND	—	—	3,500	548.46/M	175285-3
20-24	30µ” Gold	A29249-ND	.79	.51	—	—	175288-3
20-24	Tin	A29250TR-ND	—	—	3,500	339.50/M	175285-5
20-24	Tin	A29250-ND	.51	.33	—	—	175288-5
24-28	15µ” Gold	A29245TR-ND	—	—	4,000	887.58/M	175284-2
24-28	15µ” Gold	A29245-ND	1.14	.73	—	—	175287-2
24-28	30µ” Gold	A29246TR-ND	—	—	4,000	1092.42/M	175284-3
24-28	30µ” Gold	A29246-ND	.79	.51	—	—	175287-3
24-28	Tin	A29247TR-ND	—	—	4,000	511.38/M	175284-5
24-28	Tin	A29247-ND	.44	.28	—	—	175287-5

Description	Digi-Key Part No.	Price Each	AMP Part No.
D3000 Crimp Tool, 24-28 AWG	A30052-ND	519.12	91565-1
D3000 Crimp Tool, 20-24 AWG	A30053-ND	468.14	91559-1
D3000 Crimp Tool, 16-20 AWG	A30054-ND	468.14	91558-1
D3000 Crimp Tool, 14-16 AWG 2L	A30055-ND	519.12	91560-1
D3000 Crimp Tool, 14-16 AWG 3L	A30056-ND	551.57	91561-1

(Continued)

Dynamic Series

D-5000

Material: Black GF Polyester **Flammability:** UL 94V-0 **Voltage Rating:** 630VAC **Current Rating:** 12A - 45A **Temperature Rating:** -55°C ~ 105°C

Fig. 1

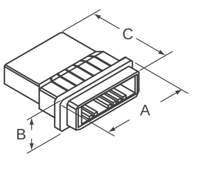

Fig. 2

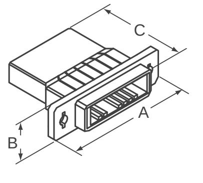

Fig. 3

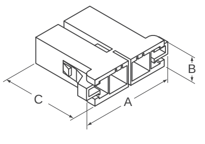

Fig. 4

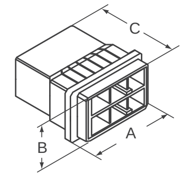

Fig. 5

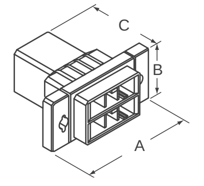

Fig. 6

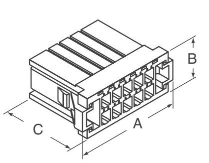

Fig. 7

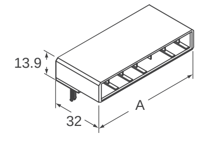

Fig. 8

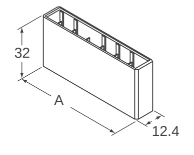

Fig. 9

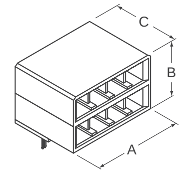

Fig. 10

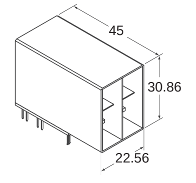

Fig. 11

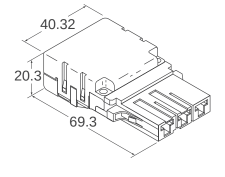

Fig.	No. of Pos.	Dim. (mm)			Keying	Body Plating	Digi-Key Part No.	Price Each		AMP Part No.
		A	B	C				1	100	
D5200 Tab Housing Panel Mount Single Row Keyed										
2	2	47.0	16.54	47.0	X	—	A29650-ND	3.58	2.30	1-353047-2
	2	47.0	16.54	47.0	Y	—	A29651-ND	2.65	1.70	2-353047-2
	3	57.0	16.54	47.0	X	—	A29652-ND	3.95	2.54	1-353047-3
	3	57.0	16.54	47.0	Y	—	A29653-ND	1.96	1.26	2-353047-3
D5200 Tab Housing Free Hanging Single Row Keyed										
1	2	33.44	16.54	47.0	X	—	A29646-ND	2.94	1.89	1-353046-2
	2	33.44	16.54	47.0	Y	—	A29647-ND	2.94	1.89	2-353046-2
	3	43.6	16.54	47.0	X	—	A29648-ND	3.74	2.40	1-353046-3
	3	43.6	16.54	47.0	Y	—	A29649-ND	3.37	2.16	2-353046-3
D5200 Receptacle Housing Single Row Keyed										
3	2	35.76	9.8	29.0	X	—	A29582-ND	1.70	1.10	1-179958-2
	2	35.76	9.8	29.0	Y	—	A29583-ND	3.17	2.04	2-179958-2
	3	45.92	9.8	29.0	X	—	A29584-ND	2.25	1.45	1-179958-3
	3	45.92	9.8	29.0	Y	—	A29585-ND	2.25	1.45	2-179958-3
	4	53.68	9.8	29.0	X	—	A29586-ND	3.07	1.98	1-179958-4
	4	53.68	9.8	29.0	Y	—	A29587-ND	2.53	1.63	2-179958-4
	6	74.0	9.8	29.0	X	—	A29588-ND	4.11	2.64	1-179958-6
	6	74.0	9.8	29.0	Y	—	A29589-ND	4.21	2.71	2-179958-6
D5200 Header Straight Single Row Keyed										
8	2	29.36	—	—	X	15µ" Gold	A29658-ND	6.09	4.37	1-353080-2
	2	29.36	—	—	X	30µ" Gold	A29659-ND	6.09	4.37	1-353080-3
	2	29.36	—	—	Y	15µ" Gold	A29660-ND	5.67	4.07	2-353080-2
	2	29.36	—	—	Y	30µ" Gold	A29661-ND	4.38	3.14	2-353080-3
	3	39.52	—	—	X	15µ" Gold	A29668-ND	6.75	4.84	1-353082-2
	3	39.52	—	—	X	30µ" Gold	A29669-ND	7.56	5.42	1-353082-3
	3	39.52	—	—	Y	15µ" Gold	A29670-ND	7.44	5.34	2-353082-2
	3	39.52	—	—	Y	30µ" Gold	A29671-ND	7.50	5.38	2-353082-3
	4	49.68	—	—	X	15µ" Gold	A29709-ND	9.45	6.78	1-917542-2
	4	49.68	—	—	X	30µ" Gold	A29710-ND	6.33	4.54	1-917542-3
	4	49.68	—	—	Y	15µ" Gold	A29711-ND	5.79	4.15	2-917542-2
	6	70.0	—	—	X	15µ" Gold	A29594-ND	11.34	8.13	1-179960-2
	6	70.0	—	—	X	30µ" Gold	A29595-ND	11.55	8.28	1-179960-3
	6	70.0	—	—	Y	15µ" Gold	A29596-ND	9.72	6.97	2-179960-2
	6	70.0	—	—	Y	30µ" Gold	A29597-ND	11.28	8.09	2-179960-3
D5200 Header Right Angle Single Row Keyed										
7	2	29.36	—	—	X	15µ" Gold	A29654-ND	7.62	5.47	1-353079-2
	2	29.36	—	—	Y	15µ" Gold	A29656-ND	5.13	3.68	2-353079-2
	2	29.36	—	—	Y	30µ" Gold	A29657-ND	6.42	4.61	2-353079-3
	3	39.52	—	—	X	15µ" Gold	A29662-ND	8.49	6.09	1-353081-2
	3	39.52	—	—	X	30µ" Gold	A29663-ND	8.79	6.30	1-353081-3
	3	39.52	—	—	Y	15µ" Gold	A29664-ND	7.62	5.47	2-353081-2
	3	39.52	—	—	Y	30µ" Gold	A29665-ND	7.83	5.62	2-353081-3
	4	49.68	—	—	X	15µ" Gold	A29703-ND	6.75	4.84	1-917541-2
	4	49.68	—	—	X	30µ" Gold	A29704-ND	8.07	5.79	1-917541-3
	4	49.68	—	—	Y	15µ" Gold	A29705-ND	6.72	4.82	2-917541-2
	4	49.68	—	—	Y	30µ" Gold	A29706-ND	6.03	4.33	2-917541-3
	6	70.0	—	—	Y	15µ" Gold	A29592-ND	10.59	7.59	2-179959-2
	6	70.0	—	—	X	15µ" Gold	A29590-ND	10.59	7.59	1-179959-2
	6	70.0	—	—	X	30µ" Gold	A29591-ND	19.62	14.07	1-179959-3
	6	70.0	—	—	Y	30µ" Gold	A29593-ND	10.95	7.85	2-179959-3
D5200 Tab Housing Panel Mount Dual Row Keyed										
5	4	47.0	26.7	47.0	XX	—	A29753-ND	3.08	1.98	1-917809-2
	4	47.0	26.7	47.0	YY	—	A29754-ND	3.08	1.98	2-917809-2
	4	47.0	26.7	47.0	XY	—	A29755-ND	4.53	2.91	3-917809-2
	6	57.0	26.7	47.0	XX	—	A29756-ND	4.64	2.98	1-917809-3
	6	57.0	26.7	47.0	YY	—	A29757-ND	4.64	2.98	2-917809-3
	6	57.0	26.7	47.0	XY	—	A29758-ND	4.64	2.98	3-917809-3
D5200 Tab Housing Dual Row Keyed										
4	4	33.44	26.7	47.0	XX	—	A29747-ND	3.02	1.94	1-917808-2
	4	33.44	26.7	47.0	YY	—	A29748-ND	6.49	4.17	2-917808-2
	4	33.44	26.7	47.0	XY	—	A29749-ND	6.49	4.17	3-917808-2
	6	43.6	26.7	47.0	XX	—	A29750-ND	10.23	6.57	1-917808-3
4	6	43.6	26.7	47.0	YY	—	A29751-ND	4.64	2.98	2-917808-3
	6	43.6	26.7	47.0	XY	—	A29752-ND	7.82	5.02	3-917808-3
D5200 Receptacle Housing Dual Row Keyed										
6	4	33.36	19.96	29.0	—	—	A29740-ND	3.30	2.12	917807-2
	4	33.36	19.96	29.0	XX	—	A29741-ND	3.37	2.17	1-917807-2
	4	33.36	19.96	29.0	YY	—	A29742-ND	3.37	2.17	2-917807-2
	4	33.36	19.96	29.0	XY	—	A29743-ND	3.37	2.17	3-917807-2
	6	43.52	19.96	29.0	XX	—	A29744-ND	3.40	2.19	1-917807-3
	6	43.52	19.96	29.0	YY	—	A29745-ND	3.40	2.19	2-917807-3
	6	43.52	19.96	29.0	XY	—	A29746-ND	3.40	2.19	3-917807-3
D5200 Header Right Angle Dual Row Keyed										
9	4	29.36	22.56	42.16	XX	15µ" Gold	A29759-ND	18.33	13.14	1-1123309-2
	4	29.36	22.56	42.16	YY	15µ" Gold	A29761-ND	12.90	9.25	2-1123309-2
	4	29.36	22.56	42.16	YY	30µ" Gold	A29762-ND	13.44	9.64	2-1123309-3
	4	29.36	22.56	42.16	XY	15µ" Gold	A29763-ND	10.65	7.64	3-1123309-2
	4	29.36	22.56	42.16	XY	30µ" Gold	A29764-ND	14.19	10.17	3-1123309-3
10	4	—	—	—	XX	Silver	A29819-ND	15.72	11.27	1-1318983-6
	4	—	—	—	YY	Silver	A29820-ND	15.93	11.42	2-1318983-6
	4	—	—	—	XY	Silver	A29821-ND	17.85	12.80	3-1318983-6
9	8	49.68	24.8	32.0	—	15µ" Gold	A29776-ND	22.62	16.22	1123829-1
D5200 Cable Clamp Receptacle Single Row										
11	3	—	—	—	—	—	A29862-ND	13.27	10.75	1473668-1

Wire Size AWG	Body Plating	Digi-Key Part No.	Price Each		Tape & Reel		AMP Part No.
			1	100	Size	Pricing	
D5000 Receptacle Contacts							
8	15µ" Gold	A29326TR-ND	—	—	800	2610.00	1318696-2
8	15µ" Gold	A29326-ND	2.97	1.91	—	—	1318697-2
8	Silver	A29327TR-ND	—	—	800	2034.00	1318696-6
8	Silver	A29327-ND	3.63	2.33	—	—	1318697-6
10-12	15µ" Gold	A29272TR-ND	—	—	1,200	1920.00/M	179956-2
10-12	15µ" Gold	A29272-ND	1.31	.85	—	—	316041-2
10-12	30µ" Gold	A29273TR-ND	—	—	1,200	2260.00/M	179956-3
10-12	30µ" Gold	A29273-ND	1.46	.94	—	—	316041-3
10-12	Tin	A29274TR-ND	—	—	1,200	2260.00/M	179956-6
10-12	Tin	A29274-ND	3.05	1.96	—	—	316041-6
14-16	15µ" Gold	A29269-ND	1.19	.77	—	—	316040-2
14-16	30µ" Gold	A29270TR-ND	—	—	1,500	2320.00/M	179955-3
14-16	15µ" Gold	A29269TR-ND	—	—	1,500	939.66/M	179955-2
14-16	30µ" Gold	A29270-ND	2.86	1.84	—	—	316040-3
14-16	Tin	A29271TR-ND	—	—	1,500	2320.00/M	179955-6
14-16	Tin	A29271-ND	3.26	2.10	—	—	316040-6
16-20	Silver	A29333TR-ND	—	—	1,800	1000.00/M	1318985-6
16-20	Silver	A29333-ND	2.86	1.84	—	—	1318986-6
D5000 Tab Contacts							
10-12	15µ" Gold	A29313TR-ND	—	—	1,200	691.32/M	917803-2
10-12	15µ" Gold	A29313-ND	1.09	.71	—	—	917805-2
10-12	30µ" Gold	A29314TR-ND	—	—	1,200	881.69/M	917803-3
10-12	30µ" Gold	A29314-ND	1.23	.80	—	—	917805-3
14-16	15µ" Gold	A29311TR-ND	—	—	1,500	1240.00/M	917802-2
14-16	15µ" Gold	A29311-ND	1.09	.71	—	—	917804-2
14-16	30µ" Gold	A29312TR-ND	—	—	1,500	1820.00/M	917802-3
14-16	30µ" Gold	A29312-ND	3.21	2.06	—	—	917804-3

Description	Digi-Key Part No.	Price Each	AMP Part No.
D5000 Crimp Tool, 16-20 AWG	A30057-ND	551.57	91596-1
D5000 Crimp Tool, 14-16 AWG	A30058-ND	1353.42	234170-1
D5000 Crimp Tool, 10-12 AWG	A30059-ND	1004.25	234171-1
D5000 Extraction Tool	A32487-ND	33.66	409158-1

M Series Pin and Socket Connectors

Specifications: • Temperature Rating: -55°C ~ 150°C • Flammability Ratings: UL94V-0 • Dielectric Withstanding Voltage (at sea level): Type II Contacts, 1500VAC, RMS Type III+ Contacts, 900VAC, RMS • Durability (Mating/Unmating): Types II and III+ Contacts • Gold Plated: 500 cycles; Types II and III+ Contacts, • Bright Tin-Lead Plated: 50 cycles

Fig. 1

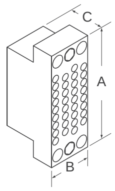

34 Position Shown

Fig. 2

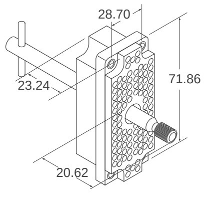

Fig. 3

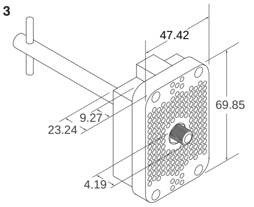

Fig. 4

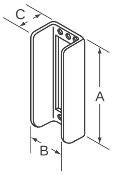

Fig. 5

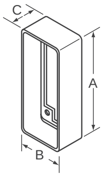

Fig. 6

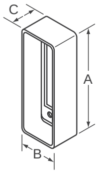

Fig. 7

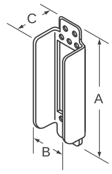

Fig. 8

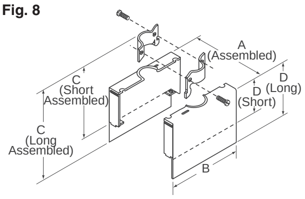

Fig. 9

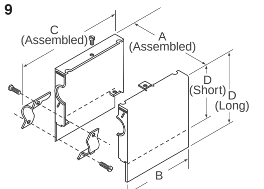

Fig. 10

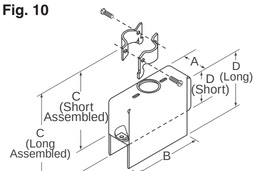

Standard Housings

Fig.	No. of Pos.	Housing Material	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Plug Housing									
1	6	Black Phenolic	25.4	9.65	23.24	A30139-ND	7.87	5.05	202758-1
	14		31.75	11.18	23.24	A30184-ND	5.14	3.30	201355-1
	20		39.62	11.18	23.24	A30114-ND	6.76	4.34	201356-1
	26		41.4	14.22	23.24	A30115-ND	7.71	4.95	201359-1
	34		50.8	19.05	23.24	A30185-ND	7.55	4.85	1-201357-1
	41		68.25	11.18	23.24	A30132-ND	19.29	12.38	202135-2
	50		65.91	19.05	23.24	A30186-ND	13.25	8.50	201358-1
	75		65.91	28.19	23.24	A30181-ND	18.42	11.82	201310-1
	104		69.85	22.22	23.24	A30183-ND	27.03	17.34	201345-1
Receptacle Housing									
1	6	Black Phenolic	25.4	9.65	23.24	A30226-ND	8.14	5.22	202757-1
	14		31.75	11.18	23.24	A30179-ND	5.35	3.44	201298-1
	20		39.62	11.18	23.24	A30151-ND	8.27	5.31	200346-2
	26		41.4	14.22	23.24	A30154-ND	8.19	5.26	200512-2
	34		50.8	19.05	23.24	A30164-ND	7.87	5.05	200838-2
	41		68.25	11.18	23.24	A30180-ND	13.75	8.83	201302-1
	50		65.91	19.05	23.24	A30150-ND	13.97	8.96	200277-2
	75		65.91	28.19	23.24	A30182-ND	13.91	8.93	201311-1
	104		69.85	22.22	23.24	A30104-ND	26.90	17.26	201037-1
CF Position with Center Fasteners (Plug)									
2	104	Black Phenolic	—	—	—	A30201-ND	69.80	44.78	201692-4
3	160		—	—	—	A30228-ND	43.49	27.90	202799-2
CF Position with Center Fasteners (Receptacle)									
2	104	Black Phenolic	—	—	—	A30198-ND	28.46	18.26	201532-4
3	160		—	—	—	A30229-ND	43.78	28.09	202800-2

Protective Hardware

Fig.	No. of Pos.	Material	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Pin Hoods, Internal Open-End									
4	6	Nickel Plated Steel	25.4	12.7	18.24	A30234-ND	20.94	16.95	204258-6
	14		31.75	13.97	18.24	A30188-ND	8.06	6.53	201363-4
	26		41.45	18.42	18.24	A30125-ND	11.00	8.91	201785-4
	34		50.8	22.35	18.24	A30202-ND	11.03	8.93	201786-4
Pin Hoods, Internal Closed-End									
5	34	Nickel Plated Steel	54.1	22.35	17.45	A30136-ND	12.60	10.20	202434-4
	50		73.02	24.18	17.45	A30223-ND	8.72	7.06	202394-2
	75		70.23	33.27	17.45	A30190-ND	6.66	5.39	201369-4
	104		75.57	44.2	17.45	A30116-ND	20.62	16.70	201364-4
	160CF*		75.57	51.82	17.45	A30231-ND*	14.89	12.06	203743-4
Pin Hoods, External Closed-End									
6	26	Aluminum Iridite	47.75	20.62	17.45	A30112-ND	18.42	14.91	201349-2
	34		57.15	25.4	17.45	A30113-ND	15.41	12.48	201350-2
	50	Nickel Plated Steel	72.26	25.4	17.45	A30118-ND	13.19	10.68	201390-5
	75		72.26	34.54	17.45	A30189-ND	10.02	8.11	201368-4
	104		76.84	45.72	17.45	A30111-ND	13.78	11.16	201346-4
	104CF*		77.22	34.04	18.24	A30216-ND*	8.67	7.03	202119-2
	160CF*		76.84	53.34	17.45	A30140-ND*	29.99	24.28	203744-4
Pin Hoods, External Open-End with Flanges									
7	34	Nickel Plated Steel	73.02	22.63	17.45	A30130-ND	22.47	18.19	202095-5
	41		85.73	14.35	17.45	A30133-ND	17.81	14.42	202165-5
	50		88.09	22.63	17.45	A30131-ND	17.79	14.40	202096-5

Fig.	No. of Pos.	Material	Body Style	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Two-Piece Shields, 180° Cable Exit											
8	20	Nickel Plated Steel	Short	13.21	39.67	46.10	33.02	A30233-ND	68.80	55.70	204087-1
	26		Long	16.26	41.28	62.31	50.04	A30123-ND	37.72	30.54	201576-2
	26		Short	16.26	41.28	45.24	33.02	A30155-ND	39.71	32.15	200514-2
	34		Long	21.03	50.80	62.31	49.2	A30200-ND	25.62	20.74	201571-2
	34		Short	21.03	50.80	44.83	31.75	A30157-ND	11.51	9.32	200517-2
	41		Long	13.08	68.25	62.31	49.99	A30222-ND	55.17	44.66	202383-2
	41		Short	13.08	68.25	45.24	32.77	A30134-ND	46.47	37.63	202383-1
	50		Long	21.03	65.86	62.69	50.04	A30119-ND	25.05	20.29	201443-2
	50		Short	21.03	65.86	45.62	32.77	A30159-ND	13.31	10.78	200532-2
	75		Long	30.35	69.27	84.51	71.04	A30225-ND	30.24	24.48	202713-2
	75		Short	30.35	69.27	67.44	53.98	A30224-ND	22.66	18.35	202713-1
	26	Anodized Aluminum	Long	16.26	41.28	62.31	50.04	A30122-ND	43.55	35.26	201576-1
	34		Long	21.03	50.80	62.31	49.2	A30199-ND	11.51	9.32	201571-1
	34		Short	21.03	50.80	44.83	31.75	A30156-ND	11.51	9.32	200517-1
	50		Short	21.03	65.86	45.62	32.77	A30158-ND	47.52	38.48	200532-1
	104	Nickel Plated Cast Alum.	Short	43.26	70.23	46.81	32.77	A30175-ND	66.72	54.01	201131-1
Two-Piece Shields, 90° Cable Exit											
9	50	Nickel Plated Steel	Long	22.86	65.84	78.69	71.04	A30143-ND	184.72	149.54	203975-2
	50		Short	22.86	65.84	78.69	53.98	A30142-ND	75.58	61.19	203975-1
	75		Long	30.35	69.34	82.80	71.04	A30138-ND	46.03	37.27	202711-3
	75		Short	30.35	69.34	82.80	53.98	A30137-ND	50.55	40.92	202711-1
	104CF*		Short	29.08	72.26	85.73	60.33	A30135-ND*	162.23	131.33	202395-1
One-Piece Shields, 180° Cable Exit											
10	14	Nickel Plated Steel	Long	13.49	33.32	62.69	50.01	A30191-ND	9.58	7.76	201378-2
	14		Short	13.49	33.32	45.62	33.02	A30187-ND	12.03	9.75	201360-2
	20		Short	13.08	41.66	45.62	33.02	A30109-ND	53.49	43.30	201227-2
	26		Short	16.26	42.85	45.62	32.92	A30108-ND	28.69	23.23	201169-2
	34		Long	21.03	52.37	62.69	50.01	A30117-ND	38.24	30.96	201384-2
	34		Short	21.03	52.37	45.24	32.54	A30107-ND	44.48	36.01	201165-2
One-Piece Shields, 90° Cable Exit											
—	34	Steel	Short	—	—	—	—	A30197-ND	29.78	24.11	201469-2
Two-Piece Shields, 45° Cable Exit											
—	104CF*	Nickel Plated Steel	Short	—	—	—	—	A30217-ND*	36.10	29.23	202169-1
	104CF*		Short	—	—	—	—	A30215-ND*	36.96	29.92	202110-1
	160CF*		Short	—	—	—	—	A30227-ND*	66.72	54.01	202798-1

Strain Relief Hardware

No. of Positions	Cable Opening L x W (mm)	Body Style	Digi-Key Part No.	Price Each 1	100	AMP Part No.
Cable Clamps						
6	7.75 x 3.94	Short	A30230-ND	15.98	12.94	203432-1
14	13.46 x 8.51	Long	A30205-ND	9.24	7.48	201843-1
14	13.46 x 8.51	Short	A30160-ND	12.20	9.88	200686-1
20	19.81 x 8.51	Short	A30178-ND	16.25	13.16	201237-1
26	19.81 x 12.83	Long	A30206-ND	9.58	7.76	201845-1
26	19.81 x 10.92	Short	A30110-ND	17.72	14.35	201229-1
34	19.81 x 12.7	Long	A30207-ND	12.98	10.51	201846-1
34	19.81 x 10.8	Short	A30177-ND	8.27	6.70	201224-1
41	38.1 x 9.14	Long	A30124-ND	36.39	29.47	201766-1
50	28.58 x 17.15	Long	A30208-ND	9.16	7.42	201847-1
50	28.58 x 13.97	Short	A30176-ND	13.15	10.65	201182-1
75	28.58 x 23.5	Long	A30209-ND	12.75	10.32	201848-1
75	28.58 x 20.32	Short	A30161-ND	10.50	8.50	200730-1
104	28.58 x 31.37	Long	A30126-ND	45.89	37.15	201849-1

*CF = Center Fastener ◊ Long-Long Turnable Jackscrews are used only with Two-Piece Shields on the connector sizes listed. ‡ Single female latch, two must be ordered per assembly. § Without Spacers † Two long pins are to be installed in diagonal corners. Use without guide sockets.

(Continued)

Fastening Hardware

Style	Standard Connectors Used	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Turnable Jackscrews, 6-32 Double Lead Thread					
Long-Long Male	50, (90° shield only) 75 and 104	A30211-ND◊	5.73	4.65	201911-1
Long-Long Female		A30210-ND◊	7.94	6.43	201910-1
Long Male	20, 26, 34, 41 and 50	A30168-ND	2.94	2.38	200871-1
Long Female		A30165-ND	2.73	2.21	200867-1
Short Male	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30166-ND	3.55	2.88	200868-1
Short Female		A30167-ND	3.15	2.55	200870-1
Short-Short Male	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30192-ND	3.82	3.10	201388-1
Short-Short Female		A30193-ND	2.92	2.37	201389-1
Fixed Jackscrews					
Male	—	A30169-ND	1.85	1.50	200874-1
Female	—	A30170-ND	2.39	1.94	200875-1
Turnable Jackscrews, 6-32 Single Lead Thread					
Long-Long Male	50, (90° shield only) 75 and 104	A30145-ND◊	5.92	4.80	207234-1
Long-Long Female		A30146-ND◊	5.63	4.56	207235-1
Long Male	20, 26, 34, 41 and 50	A30194-ND	3.13	2.54	201413-1
Long Female		A30195-ND	3.13	2.54	201414-1
Short Male	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30105-ND	7.33	5.94	201087-1
Short Female		A30106-ND	5.59	4.53	201088-1
Short-Short Male	6, 14, 20, 26, 34, 41, 50, 75 and 104	A30203-ND	3.99	3.23	201827-1
Short-Short Female		A30204-ND	3.13	2.54	201828-1
Fixed Jackscrews					
Male	—	A30174-ND	1.87	1.52	201092-1
Female	—	A30173-ND	2.10	1.70	201089-1
Assembly Tool for Roll Pins		A30149-ND	347.63	—	91016-2
Locking Springs					
Male	6, 14, 20 and 41	A30212-ND	1.66	1.35	201921-1
Female		A30213-ND	1.55	1.26	201922-1
Male	26	A30128-ND	7.33	5.94	201923-1
Female		A30127-ND‡	2.65	2.15	201918-1
Male	34 and 50	A30214-ND	3.00	2.44	201925-1
Female		A30129-ND	3.44	2.79	201926-1

Guide Hardware

Type	Standard Connectors Used	Digi-Key Part No.	Price Each 1	Price Each 100	AMP Part No.
Center Pin	6,14,20,26 34, 41, 50, 75 and 104	A30152-ND	2.88	2.33	200389-2
Center Socket		A30153-ND	3.05	2.47	200390-2
Corner Pin	34 and 50	A30162-ND	2.88	2.33	200833-2
Corner Socket		A30163-ND	3.00	2.44	200835-2
Corner Socket		A30141-ND	13.84	11.21	203964-1
Corner Pin	75, 104, and 160CF*	A30171-ND	2.88	2.33	201046-2
Corner Socket		A30172-ND	3.26	2.64	201047-2
Corner Socket		A30232-ND	11.70	9.47	203966-1
Corner Pin	104CF*	A30219-ND	7.81	6.33	202173-5
Corner Pin		A30218-ND§	5.12	4.15	202173-1
Corner Socket		A30220-ND	5.23	4.24	202174-1
Corner Socket		A30221-ND§	4.98	4.03	202174-4
Corner Socket		A30144-ND	10.48	8.49	204099-2
Long Pin		A30121-ND†	11.36	9.20	201540-1
Tool, Nut Driver (4-40)		A30147-ND	43.14	—	811262-1
Tool, Nut Driver (6-32)		A30148-ND	71.09	—	811262-2

Tools

Description	Digi-Key Part No.	Price Each	AMP Part No.
Series 1 Contacts			
Hand Tool, Pro-Crimper,Handle Only, w/o Dies	A9996-ND	66.00	354940-1
Die Set CPC Conn	A9919-ND	103.50	58495-2
Contact Extraction Tool	A1329-ND	12.60	305183
Crimp Tool, Pro-Crimper II with Dies	A9920-ND	145.50	58495-1
Crimp Tool, 26-24 AWG, Certified – Crimp	A9951-ND	519.12	91515-1
Crimp Tool, 24-20 AWG, Certified – Crimp	A9839-ND	519.12	91523-1
Crimp Tool, Ratcheting 18-16 AWG	A9841-ND	468.14	91505-1

* CF = Center Fastener ◊ Long-Long Turnable Jackscrews are used only with Two-Piece Shields on the connector sizes listed. ‡ Single female latch, two must be ordered per assembly. § Without Spacers † Two long pins are to be installed in diagonal corners. Use without guide sockets.

Contacts

CONTACT FINISH: A: Selective gold with 30µ gold on electrical engagement area over 50µ nickel on entire contact. **B:** Duplex plated 30µ gold in mating area over 50µ nickel on contact body; bright tin-lead on solder tab. **F:** Bright tin-lead on entire contact.

Description	Wire Size AWG	Insulation Diameter Inch	Contact Finish	Digi-Key Part No.	Loose Piece Price Each 10	Loose Piece Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Digi-Key Part No.	Tape and Reel Pricing 4,000	AMP Part No.
Series 1 — Crimp													
Pin	30-26	.040 - .060	F	—	—	—	—	A25084CT-ND	46.59	213.54	A25084TR-ND	239.93/M	66425-6
Socket			F	—	—	—	—	A25085CT-ND	61.93	283.84	A25085TR-ND	309.65/M	66424-6
Pin			A	A25092-ND	1.36	.95	66429-4	A25092CT-ND	65.25	299.05	A25092TR-ND	326.24/M	66425-8
Socket			A	A25093-ND	2.13	1.49	66428-4	A25093CT-ND	81.07	371.58	A25093TR-ND	405.36/M	66424-8
Pin	26-24	.035 - .055	F	—	—	—	66107-2	A1324CT-ND	32.39	148.43	A1324TR-ND	166.79/M	66106-6
Socket			F	—	—	—	66109-2	A1654CT-ND	51.13	234.36	A1654TR-ND	263.33/M	66108-6
Pin			A	A1344-ND	.81	.57	66107-4	A1344CT-ND	56.49	258.93	A1344TR-ND	282.47/M	66106-8
Socket			A	A1345-ND	.97	.68	66109-4	A1345CT-ND	70.22	321.82	A1345TR-ND	351.08/M	66108-8
Pin	24-20	.040 - .080	F	A1322-ND	.54	.38	66103-2	—	—	—	—	—	66102-7
Socket			F	A1323-ND	.64	.45	66105-2	A1323CT-ND	40.28	184.64	A1323TR-ND	207.47/M	66104-7
Pin			A	A1342-ND	.81	.57	66103-4	A1342CT-ND	52.94	242.65	A1342TR-ND	264.71/M	66102-9
Socket			A	A1343-ND	.97	.68	66105-4	A1343CT-ND	63.28	290.02	A1343TR-ND	316.38/M	66104-9
Socket	24-20	.080 - .100	F	—	—	—	66399-1	A1656CT-ND	41.42	189.82	—	—	66331-5
Pin			A	A1648-ND	.61	.43	66400-4	A1648CT-ND	56.65	259.63	A1648TR-ND	283.23/M	66332-8
Socket			A	A1661-ND	.73	.51	66399-4	A1661CT-ND	70.27	322.05	A1661TR-ND	351.33/M	66331-8
Pin	18-16	.080 - .100	F	A1649-ND	.54	.38	66099-2	A1649CT-ND	33.10	151.69	—	—	66098-7
Socket			F	A1665-ND	.64	.45	66101-2	—	—	—	—	—	66100-7
Pin			A	A1340-ND	.81	.57	66099-4	A1340CT-ND	56.65	259.63	A1340TR-ND	283.23/M	66098-9
Socket			A	A16080-ND	.97	.68	66101-4	A16080CT-ND	63.02	288.83	A16080TR-ND	315.09/M	66100-9
Socket	18-14	.080 - .100	F	A1321-ND	.63	.44	66360-2	A1321CT-ND	41.42	189.82	—	—	66358-6
Pin			A	A1650-ND	.82	.57	66361-4	A1650CT-ND	54.02	247.58	A1650TR-ND	270.09/M	1-66359-0
Socket			A	A1341-ND	.91	.64	66360-4	A1341CT-ND	70.29	322.16	A1341TR-ND	351.45/M	1-66358-0
Pin	18-14	.110 - .150	F	A25129-ND	—	—	66602-1	A25129CT-ND	33.10	151.69	—	—	66597-1
Socket			F	A25130-ND	.64	.45	66601-1	—	—	—	—	—	66598-1
Pin			A	A25131-ND	.81	.57	66602-2	A25131CT-ND	56.75	260.08	A25131TR-ND	283.73/M	66597-2
Socket			A	A25012-ND	.91	.64	66601-2	A25012CT-ND	69.55	318.75	A25012TR-ND	347.73/M	66598-2
Series 1 — Solder Tab													
Pin	—	—	B	A16081-ND	2.15	1.51	202236-1	—	—	—	—	—	—
Socket			B	A1668-ND	2.40	1.68	202237-1	—	—	—	—	—	—

.050” (1.27mm) Connectors

Fig. 1

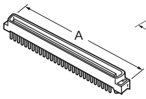

Fig. 2

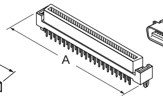

Fig. 3

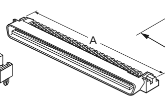

Fig. 4

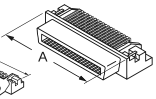

Housing & Tine Plate: Glass-filled nylon, rated 94V-0, black for standard, LCP, rated 94V-0, black for High Temp. **Contacts:** Phosphor bronze, selectively plated with minimum of 30µ gold in mating area and tin-lead in solder tail area **Retention Leg (Board Lock):** Brass, tin-lead plated

Fig. 5

Housing: Glass-filled polyester, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with min. of 30µ gold in mating area and tin-lead in solder tail area **Retention Leg (Board Lock):** Brass, tin-lead plated

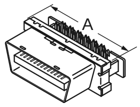

Fig. 6

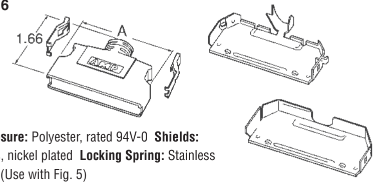

Enclosure: Polyester, rated 94V-0 **Shields:** Brass, nickel plated **Locking Spring:** Stainless Steel (Use with Fig. 5)

Fig. 7

Housing: Glass-filled polyester, rated 94V-0, black

Contacts: Phosphor bronze, selectively plated with minimum of 30µ gold in mating area and tin-lead in solder tail area

Retention Leg (Board Lock): Brass, tin-lead plated

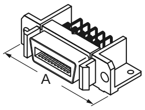

Fig. 8

Housing: LCP, rated 94V-0, black

Contacts: Phosphor bronze, selectively plated with minimum of 30µ gold in mating area and tin-lead in solder tail area

Shield: Carbon steel, tin-cobalt plated

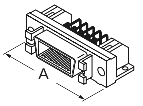

Fig. 9

Housing: Glass filled nylon, rated 94V-0, black **Contacts:** Phosphor bronze, selectively plated with min. of 12µ gold in mating area and tin-lead in solder tail area **Shield:** Carbon steel, tin-cobalt plated

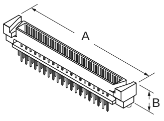

Fig. 10

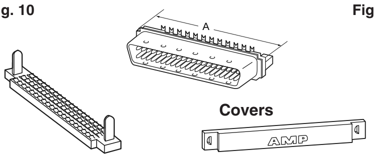

Fig. 11

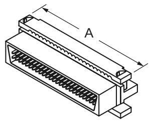

Housing and Covers: Thermoplastic, 94V-0 rated, black or gray

Contacts: Phosphor bronze, duplex plated 30µ gold on mating end; 50µ tin-lead on termination end; all underplated 50µ nickel

Shell: Steel, plated 20µ bright tin-lead over 50µ copper

Recommended Wire Size: 28 AWG or 30 AWG, solid or stranded, with a .029-.036 (0.74-0.89) insulation diameter

Fig. 12

Housing and Covers: Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, duplex plated 30µ tin-lead on termination end; all underplated 50µ nickel **Shell:** Steel, plated 200µ bright tin-lead over 50µ copper

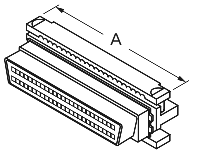

Fig. 13

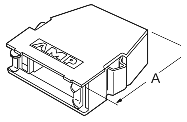

Fig. 14

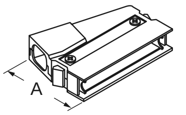

Fig. 15

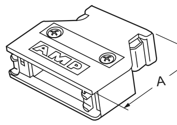

Backshell: Zinc, plated nickel over copper **Spring Latch:** Stainless steel **2-56 Screws:** Stainless steel **Strain Relief Staple:** Steel, plated tin-lead over nickel (Use with Fig. 12)

Fig. 16

Backshell: Zinc, plated nickel over copper

Jackscrews: Stainless steel or steel, black electroless nickel plated

Jackscrew Caps: Polyolefin or PVC, black

2-5 6 Screws: Stainless steel

Strain Relief Staple: Steel, plated tin-lead over nickel (Use with Fig. 12)

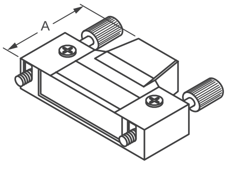

Fig. 17

Backshells: Zinc
Boot: PVC, Black
Jackscrews: Stainless steel and PVC, black
Staple: Carbon steel, plated 50µ tin-lead over 50µ nickel
2-56 Screws: Stainless steel (Use with Fig. 12)

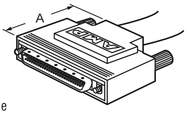

Fig. 18

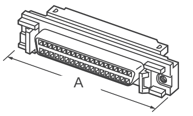

Fig. 19

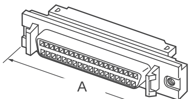

Fig. 20

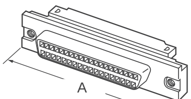

Covers: Thermoplastic, 94V-0 rated, black
Shell: Steel, plated 200µ bright tin over 50µ copper
Bracket: Zinc, plated nickel over copper
Contacts: Phosphor bronze, duplex plated 30µ gold on mating end; 50µ bright tin-lead in termination area, all underplated 50µ nickel

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
CHAMP® .050” (1.27mm) Series I (VESA Media Bus Standard)							
1	20	Vert. Plug, with Locks, Standard	.949 (24.05)	A26151-ND	6.55	5.24	5-175473-1
	40	Vert. Plug, with Locks, High Temp.	1.447 (36.75)	A26152-ND	2.58	2.06	557102-5
	50	Vert. Plug, with Locks, Standard	1.697 (43.10)	A26153-ND	10.40	8.32	5-175473-6
	68	Vertical Plug	2.147 (54.53)	A15022-ND	3.38	2.70	1-557102-7
	80	Vert. Plug, with Locks, Standard	2.447 (62.15)	A26154-ND	11.05	8.84	5-175473-9
	80	Vert. Plug, with Locks, High Temp.	2.947 (74.85)	A31884-ND†	3.13	2.50	1734100-8
	100	Vert. Plug, with Locks, Standard	2.947 (74.85)	A26155-ND	15.08	12.06	6-175473-0
2	80	Vert. Recept., with Locks, High Temp.	2.447 (62.15)	A26157-ND	3.05	2.44	2-557103-1
	80	Vert. Recept., with Locks, High Temp.	2.447 (62.15)	A31782-ND†	2.83	2.26	1734101-8
	100	Vert. Recept., with Locks, Standard	2.947 (74.85)	A26158-ND	15.60	12.48	6-175475-0
3	40	Right Angle Plug, Standard	1.391 (35.33)	A26160-ND	3.83	3.06	557100-5
	50		1.641 (41.68)	A26149-ND	3.95	3.16	557100-9
	68		2.091 (53.11)	A26162-ND	11.60	9.28	5-175472-8
	68		2.091 (53.11)	A15023-ND	3.13	2.50	1-557100-7
	80		2.391 (60.73)	A15021-ND	3.30	2.64	2-557100-1
	100		2.891 (73.43)	A24229-ND	5.15	4.12	2-557100-5
4	40	Right Angle Receptacle, High Temp.	1.391 (35.33)	A26161-ND	2.63	2.10	557101-5
	50	Right Angle Receptacle, High Temp.	1.641 (41.68)	A26150-ND	2.88	2.30	557101-9
	50	Right Angle Receptacle, Standard	1.641 (41.68)	A24225-ND	11.40	9.12	5-175474-6
	80	Right Angle Receptacle, High Temp.	2.391 (60.73)	A24228-ND	3.65	2.92	2-557101-1
	100	Right Angle Receptacle, High Temp.	2.891 (73.43)	A24230-ND	4.15	3.32	2-557101-5
CHAMP® .050” (1.27mm) Series II (Wire-To-Board)							
5	26	Plug Cable Connector	1.024 (26.00)	A26163-ND	6.98	5.58	2-175677-4
	26		1.024 (26.00)	A32495-ND† ***NEW!***	6.53	5.22	2-5175677-4
	50		1.626 (41.30)	A32496-ND† ***NEW!***	9.88	7.90	2-5175677-7

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
6	26	Enclosure Kits	1.319 (33.50)	A26138-ND†	5.10	4.08	176793-4
7	14	Right Angle Receptacle, Board Lock	1.163 (29.54)	A26139-ND	6.75	5.40	2-178238-1
	20		1.313 (33.35)	A26140-ND	5.20	4.16	2-178238-2
	26		1.463 (37.16)	A26141-ND	6.70	5.36	2-178238-4
	50		2.063 (52.40)	A26142-ND	11.03	8.82	2-178238-7
	68		2.513 (63.83)	A26143-ND	12.15	9.72	2-178238-8
8	14	Right Angle Receptacle, High Temp.	1.163 (29.54)	A26144-ND	6.38	5.10	557153-3
—	68	Right Angle Header, Board Lock	2.515 (63.90)	A29093-ND	23.73	19.78	2-174225-5
CHAMP® .050” (1.27mm) FH Connectors							
9	80	Vert. Recept., 12mm, B=.38 (9.70)	2.453 (62.30)	A26146-ND	13.90	11.12	176372-3
	80	Vert. Recept., 13mm, B=.42 (10.70)	2.453 (62.30)	A26147-ND	13.90	11.12	176373-3
	100	Vert. Recept., 16mm, B=.54 (13.70)	2.953 (75.00)	A26148-ND	18.38	14.70	176376-4
AMPLIMITE® .050” (1.27mm) Series (SCSI-2, SCSI-3, IPI-2, HIPPI)							
Cable Plug Connectors							
10	26	With Wire Lacing Term. Covers Black	.979 (24.87)	A31783-ND†	7.48	5.98	5750913-2
	26	With Wire Lacing Term. Covers Gray	.979 (24.87)	A31784-ND†	9.55	7.64	1-5750913-2
	50	With Wire Lacing Term. Covers Black	1.579 (40.11)	A23678-ND	7.90	6.32	750913-5
	50	With Wire Lacing Term. Covers Gray	1.579 (40.11)	A3302-ND	7.75	6.20	1-750913-5
	50	With Wire Lacing Term. Covers Gray	1.579 (40.11)	A31785-ND†	5.95	4.76	1-5750913-5
	68	With Wire Lacing Term. Covers Black	2.029 (51.54)	A31786-ND†	6.18	4.94	5750913-7
	68	With Wire Lacing Term. Covers Gray	2.029 (51.54)	A31787-ND†	6.18	4.94	1-5750913-7
	100	With Wire Lacing Term. Covers Gray	2.829 (71.86)	A23676-ND	20.53	16.42	1-750913-9
	26	Replacement Lacing Term. Cover Gray	.965 (24.51)	A23680-ND†	1.23	.98	1-750877-2
	50	Replacement Lacing Term. Cover Blk	1.565 (39.75)	A23684-ND†	.78	.62	750877-5
	50	Replacement Lacing Term. Cover Gray	1.565 (39.75)	A23681-ND†	.90	.72	1-750877-5
	68	Replacement Lacing Term. Cover Blk	2.015 (51.18)	A23685-ND†	.85	.68	750877-7
	68	Replacement Lacing Term. Cover Gray	2.015 (51.18)	A23682-ND†	.90	.72	1-750877-7

† RoHS Compliant

(Continued)

Fig. 21

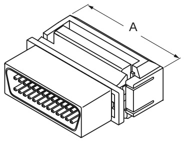

Covers: Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 50µ bright tin-lead in termination area, all underplated 50µ nickel **Recommended Wire Size:** .025 (.64) centerline, 30 AWG solid or stranded, PVC, flat ribbon cable

Fig. 22

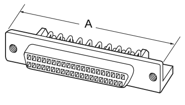

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; tin-lead on solder end; all underplated 50µ nickel

Fig. 23

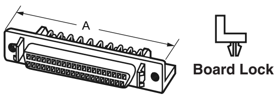

Housing: Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, duplex plated 30µ gold on contact area; tin-lead on solder area; all underplated 50µ nickel

Fig. 24

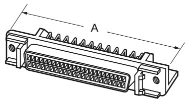

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; tin-lead on solder end; all underplated 50µ nickel

Fig. 25

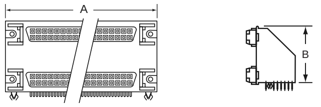

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end; 120µ tin-lead on solder end; all underplated 50µ nickel

Fig. 26

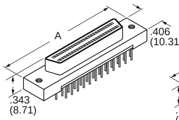

Fig. 27

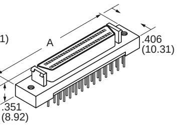

Fig. 28

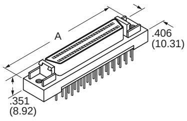

Housing: Thermoplastic, 94V-0 rated, black, SMT compatible **Shell:** Steel, plated 200µ bright tin over 50µ copper **Bracket:** Zinc, plated nickel over copper **Contacts:** Phosphor bronze, duplex plated 30µ gold on mating end, 120µ (for .125) 150 (for .173) tin-lead on solder end; all underplated 50µ nickel

Fig. 29

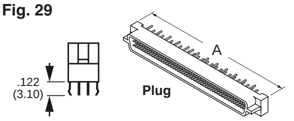

High density interface PCB mount connectors meet the requirements of Versa Module Europe (VME) bussing per SBus standards. Available in configurations for parallel board stacking as required by SBus specifications. **Housing:** Thermoplastic, 94V-0 rated, black **Contacts:** Phosphor bronze, plated; 30µ gold on mating end, 150µ tin-lead on solder tail, all over 50µ nickel underplating

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
10	100	Replacement Lacing Term. Cover Gray	2.815 (71.50)	A23683-ND†	.90	.72	1-750877-9
	20	With Assembled Terminal Covers	.829 (21.06)	A31788-ND†	5.00	4.00	5749111-1
	26		.979 (24.87)	A23686-ND	7.28	5.82	1-749111-0
	50		1.579 (40.11)	A15029-ND	5.33	4.26	749111-4
	68		2.029 (51.54)	A31789-ND†	6.93	5.54	5749111-6
	80		2.329 (59.16)	A31790-ND†	17.85	14.28	5749111-7
	100		2.829 (71.86)	A23689-ND	20.53	16.42	749111-8
	26	With Unassembled Terminal Covers	.979 (24.87)	A23690-ND	6.55	5.24	749621-2
	26		.979 (24.87)	A31791-ND†	5.00	4.00	5749621-2
	28		1.029 (26.14)	A31792-ND†	7.73	6.18	5749621-3
	40		1.329 (33.76)	A31793-ND†	5.00	4.00	5749621-4
	50		1.579 (40.11)	A31794-ND†	4.60	3.68	5749621-5
	68		2.029 (51.54)	A31795-ND†	5.00	4.00	5749621-7
	80		2.329 (59.16)	A31796-ND†	15.00	12.00	5749621-8
	100		2.829 (71.86)	A23694-ND	14.25	11.40	749621-9
11	50	.050” Ribbon Cable Plug	1.579 (40.11)	A23695-ND	10.43	8.34	749925-3
	50		1.579 (40.11)	A31797-ND †	7.65	6.12	5749925-3
	68		2.029 (51.54)	A31798-ND†	8.80	7.04	5749925-5
Shielded Receptacles							
12	50	With Assembled Terminal Covers	1.579 (40.11)	A23697-ND	8.53	6.82	749210-5
	50		1.579 (40.11)	A31799-ND†	7.95	6.36	5749210-5
	68		2.029 (51.54)	A31800-ND†	9.90	7.92	5749210-7
	50	With Unassembled Terminal Covers	1.579 (40.11)	A23700-ND	35.25	28.20	749699-5
	68		2.029 (51.54)	A23701-ND	8.78	7.02	749699-7
	100		2.829 (71.86)	A31801-ND†	20.68	16.54	5749699-8
	68	With Lacing Terminal Covers	2.029 (51.54)	A23703-ND	8.20	6.56	786860-7
Straight and Angled Exit RFI/EMI Shielded Backshell Kits							
13	20	Straight with Spring Latches	1.290 (32.77)	A23546-ND	10.05	8.04	749190-1
	40			A23547-ND	10.80	8.64	749192-1
	50	Straight w/ Spring Latches, ø.355 (9.02)	1.395 (35.43)	A23548-ND	7.80	6.24	749193-1
	50	Straight w/ Spring Latches, ø.400 (10.16)	1.395 (35.43)	A31802-ND†	5.08	4.06	749193-6
	68	Straight with Spring Latches	1.405 (35.69)	A3308-ND	9.65	7.72	749195-2
	80		1.600 (40.64)	A23549-ND†	12.05	9.64	749196-2
	100		1.725 (43.82)	A23550-ND	15.30	12.24	749197-1
14	20	Angled with Spring Latches	1.290 (32.77)	A23551-ND	9.10	7.28	749199-1
	26		1.290 (32.77)	A23590-ND	10.63	8.50	749609-1
	50		1.395 (35.43)	A23552-ND	11.53	9.22	749202-2
	68		1.405 (35.69)	A23585-ND	13.48	10.78	749204-1
	68		1.405 (35.69)	A23586-ND	13.68	10.94	749204-2
	80		1.600 (40.64)	A23587-ND	14.90	11.92	749205-1
	100		1.725 (43.82)	A23588-ND	16.80	13.44	749206-1
15	26	Straight with Spring Latches	1.290 (32.77)	A23589-ND	5.78	4.62	749608-1
	50		1.800 (45.72)	A3307-ND	7.13	5.70	749889-3
Shielded Backshell Kits							
16	50	Straight with Male #2-56 Jackscrews	1.270 (32.26)	A23543-ND	13.38	10.70	749080-1
	100		1.695 (43.05)	A23544-ND	17.03	13.62	749081-1
	100		2.082 (52.88)	A23545-ND	17.03	13.62	749854-1
17	68	Straight with Male #2-56 Jackscrews	1.887 (47.93)	A3309-ND	14.23	11.38	750752-1
		Straight w/ Female #4-40 Jackscrews		A23591-ND	15.73	12.58	750752-2

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
					1	25	
Panel Mount Receptacle Assemblies							
18	26	With Rails, 2-56 Threaded Holes	1.465 (37.21)	A23619-ND	11.33	9.06	749611-1
	26		1.465 (37.21)	A31803-ND†	11.33	9.06	1-749611-2
	50		2.065 (52.45)	A3310-ND	13.73	10.98	749611-5
19	50	Without Rails, 2-56 Threaded Holes Assembled Standard	2.065 (52.45)	A31804-ND†	13.68	10.94	1-749656-1
		Without Rails, 4-40 Threaded Holes Assembled Standard	2.065 (52.45)	A3313-ND	13.73	10.98	750640-1
	68	Without Rails, 2-56 Threaded Holes Assembled Standard	2.515 (63.88)	A23624-ND	16.53	13.22	749656-7
20	68	Without Rails and Latch Blocks	2.515 (63.88)	A26137-ND	16.53	13.22	749877-7
	100		3.315 (84.20)	A23724-ND	26.43	21.14	749877-9
—	50	Without Rails and Latch Blocks, Plug	2.065 (52.45)	A23725-ND	19.25	15.40	749879-5
Unshielded Plug Assemblies and Backshell Kit							
21	68	Unshielded for .025 (0.64) Centerline Ribbon Cable	2.023 (51.30)	A23711-ND	2.65	2.12	786090-7
				A31805-ND†	2.45	1.96	5786090-7
Right Angle Receptacle Headers							
22	40	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.815 (46.10)	A31806-ND†	6.10	4.88	5787170-4
	50	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.065 (52.45)	A31807-ND†	6.55	5.24	5787170-5
		Without Rails, with Boardlocks, .120 (3.05) Solder Tails	2.065 (52.45)	A23728-ND	13.53	10.82	787362-5
	68	Without Rails, without Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A23729-ND	6.08	4.86	787169-7
		Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A3324-ND	5.93	4.74	787170-7
				A31808-ND†	5.53	4.42	5787170-7
	100	Without Rails, without Boardlocks, .100 (2.54) Solder Tails	3.315 (84.20)	A31809-ND†	12.15	9.72	5787169-9
		Without Rails, with Boardlocks, .120 (3.05) Solder Tails	3.315 (84.20)	A31810-ND†	13.38	10.70	5787362-9
23	26	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.465 (37.21)	A3314-ND	5.75	4.60	787082-2
	28	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	1.515 (38.48)	A23731-ND	7.95	6.36	787082-3
				A31811-ND†	7.43	5.94	5787082-3
	50	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.065 (52.45)	A31812-ND†	3.43	2.74	5787082-5
				A3317-ND	6.25	5.00	787394-5
		Without Rails, with Boardlocks, .100 (2.54) Solder Tails, 4-40 Threaded Holes	2.065 (52.45)	A31813-ND†	5.23	4.18	5787395-5
	68	Without Rails, with Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A3321-ND	5.85	4.68	787082-7
				A31814-ND†	6.55	5.24	5787082-7
		Without Rails, without Boardlocks, .100 (2.54) Solder Tails	2.515 (63.88)	A3322-ND	9.70	7.76	787394-7
24	26	With Rails, with Boardlocks	1.465 (37.21)	A23733-ND	6.60	5.28	787171-2
	40		1.815 (46.10)	A23734-ND	7.80	6.24	787171-4
	40		1.815 (46.10)	A31815-ND†	7.30	5.84	1761028-2
	50		2.065 (52.45)	A31816-ND†	6.18	4.94	1761028-3

† RoHS Compliant

(Continued)

Fig.	No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
24	50	With Rails, without Boardlocks	2.065 (52.45)	A31817-ND†	6.00	4.80	5787190-5
	80		2.815 (71.50)	A31818-ND†	12.78	10.22	5787190-8
	50	With Rails, with Boardlocks, 4-40 Threaded Holes	2.065 (52.45)	A23735-ND	12.08	9.66	787266-5
				A31819-ND†	9.85	7.88	5787266-5
	68	With Rails, without Boardlocks	2.515 (63.88)	A23736-ND	10.15	8.12	787190-7
		With Rails, with Boardlocks		A3323-ND	7.58	6.06	787171-7
	50/50	Right Angle Stacked with Rails, B: .906 (23.01)	2.065 (52.45)	A23737-ND	32.90	26.32	787656-1
				A31820-ND†	22.05	17.64	5787656-1
25	68/68	Right Angle Stacked with Rails, B: 1.156 (29.36)	2.515 (63.88)	A23738-ND	39.75	31.80	787678-1
		Right Angle Stacked with Rails, Flat Top, B: 1.156 (29.36)	2.515 (63.88)	A23739-ND	42.30	33.84	787679-1
Vertical Receptacle Headers Without Rails and Latch Blocks							
26	50	.125 (3.18) Solder Tail	2.065 (52.45)	A23740-ND	7.73	6.18	749070-5
	50	.125 (3.18) Solder Tail	2.065 (52.45)	A31821-ND†	7.00	5.60	5749070-5
	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A23741-ND	10.33	8.26	786555-5
	68	.125 (3.18) Solder Tail	2.515 (63.88)	A31822-ND†	7.18	5.74	5749070-7
	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A31823-ND†	10.15	8.12	5786555-7
	68	.280 (7.11) ACTION PIN Tail	2.515 (63.88)	A23744-ND	20.55	16.44	786557-7
	100	.125 (3.18) Solder Tail	3.315 (84.20)	A23745-ND	18.90	15.12	749070-9
	100	.125 (3.18) Solder Tail	3.315 (84.20)	A31824-ND†	14.40	11.52	5749070-9
	100	.173 (4.39) ACTION PIN Tail	3.315 (84.20)	A23746-ND	29.73	23.78	786555-9
Vertical Receptacle Headers Without Rails and With Latch Blocks							
27	28	.125 (3.18) Solder Tail	1.515 (38.48)	A23747-ND	9.18	7.34	749721-3
	50		2.065 (52.45)	A23748-ND	8.15	6.52	749721-5
	50		2.065 (52.45)	A31825-ND†	7.88	6.30	5749721-5
	68		2.515 (63.88)	A23749-ND	6.28	5.02	749721-7
	68		2.515 (63.88)	A31826-ND†	6.05	4.84	5749721-7
	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A23750-ND	9.80	7.84	786155-7
Vertical Receptacle Headers With Rails and Latch Blocks							
28	20	.173 (4.39) ACTION PIN Tail	1.315 (33.40)	A23751-ND	6.78	5.42	786554-1
	26	.125 (3.18) Solder Tail	1.465 (37.21)	A23752-ND	6.55	5.24	749069-2
	26	.173 (4.39) ACTION PIN Tail	1.465 (37.21)	A23753-ND	7.00	5.60	786554-2
	50	.125 (3.18) Solder Tail	2.065 (52.45)	A23754-ND	7.30	5.84	749069-5
	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A23755-ND	11.03	8.82	786554-5
	50	.173 (4.39) ACTION PIN Tail	2.065 (52.45)	A31827-ND†	8.43	6.74	5786554-5
	68	.125 (3.18) Solder Tail	2.515 (63.88)	A23756-ND	8.40	6.72	749069-7
	68	.173 (4.39) ACTION PIN Tail	2.515 (63.88)	A23757-ND	13.15	10.52	786554-7
	80	.125 (3.18) Solder Tail	3.315 (84.20)	A29112-ND	21.51	17.93	749069-8
	100	.125 (3.18) Solder Tail	3.315 (84.20)	A23759-ND	21.53	17.22	749069-9
SBUS Connectors							
29	96	Plug Header without Polarization	2.80 (71.00)	A23618-ND	12.70	10.16	174683-8

† ***RoHS Compliant***

Right-Angle Headers – Shielded Slimline Connectors

Fig. 1

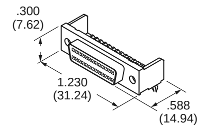

Fig. 2

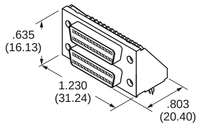

Housing: UL 94V-0 rated thermoplastic, black **Contact Footprints:** .100 x .050 (2.54 x 1.27) staggered centerlines **Bracket:** Zinc, plated 200μ minimum tin or tin-lead over 200μ minimum copper **Metal-Shell:** Carbon steel, plated 200μ minimum tin over 50μ minimum copper **Boardlocks:** Copper alloy, tin-lead plated **Contacts:** Phosphor bronze, duplex plated 30μ minimum gold on mating end, tin-lead plated 120μ minimum on solder end, all over 50μ minimum nickel

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	26	Receptacle	A31700-NDΔ	29.79	18.66	5750823-1
2	26/26	Stacked Receptacle without Rear Contact Shield, Unkeyed	A23761-ND*	47.85	38.28	786200-1
			A31702-ND*Δ	37.74	23.64	5786200-1
		Stacked Receptacle with Rear Contact Shield, Keyed	A31699-ND†Δ	37.44	23.46	5750821-1
		Stacked Receptacle with Rear Contact Shield, Unkeyed	A23763-ND*	39.63	31.70	750820-1

Δ ***RoHS Compliant*** * Both headers unkeyed with 4-40 threaded holes.
† Lower header unkeyed with 4-40 threaded holes, upper header keyed in keying position 1.

Plug – Shielded Slimline Cable Connectors

Fig. 1

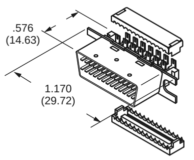

Covers: UL 94V-0 rated thermoplastic, black **Shell:** Steel, plated 200μ minimum bright tin-lead over 50μ min. copper **Contacts:** Phosphor bronze, duplex plated 30μ minimum gold on mating end, 50μ minimum bright tin-lead on termination end, all underplated 50μ nickel **Bracket:** Zinc, plated 200μ minimum nickel over 200μ minimum copper **Recommended Wire Size:** 28 AWG, PVC or polyolefin insulation

Fig. 2 Connector shown partially assembled. Given dimensions reflect full assembly.

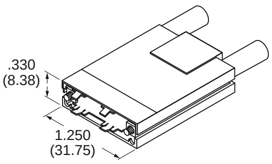

Backshells: Copper-nickel alloy **Jackscrews:** Steel, plated 100μ minimum tin over 50μ minimum copper, handles covered with ABS, gray **Inserts:** Zinc, plated 200μ minimum tin over 200μ minimum copper **Outside Covers:** Gray and black

Fig.	Description	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Plug Connector	with maximum O.D. .032 (0.813)	A23764-ND	12.35	9.88	750833-1
			A31701-NDΔ	20.25	12.69	5750833-1
2	Backshell Kit, Unkeyed	.250-.280 (6.35-7.11)	A23765-ND	12.48	9.98	750850-1
		.280-.310 (7.11-7.87)	A23766-ND	14.85	11.88	750850-3

Δ ***RoHS Compliant***

.050" X .050" Board to Connectors

Housing: Black glass filled thermoplastic, 94V-0 rated.
Contacts: Phosphor bronze (headers), beryllium copper (receptacles), both with duplex plated gold in mating area.

Number of Positions	Dimension Inch (mm) A	B (Mated Height)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Vertical Dual Row Surface Mount Headers						
20	.622 (15.80)	.250 (6.35)	A31866-ND†	5.91	5.32	5-104655-3
50	1.372 (34.85)	.250 (6.35)	A3108-ND	9.63	8.67	104655-6
70	1.872 (47.55)	.250 (6.35)	A3109-ND	10.95	9.86	104655-8
100	2.622 (66.60)	.250 (6.35)	A3110-ND	8.88	8.00	1-104655-1
20	.622 (15.80)	.320 (8.13)	A3111-ND	5.91	5.32	104656-2
30	.872 (22.15)	.320 (8.13)	A29138-ND	6.87	6.19	104656-3
40	1.122 (28.50)	.320 (8.13)	A29137-ND	8.67	7.81	104656-4
50	1.372 (34.85)	.320 (8.13)	A3112-ND	9.63	8.67	104656-5
70	1.872 (47.55)	.320 (8.13)	A3113-ND	10.32	9.29	104656-7
100	2.622 (66.60)	.320 (8.13)	A3114-ND	8.88	8.00	1-104656-0
20	.622 (15.80)	.390 (9.91)	A3115-ND	5.91	5.32	104693-2
50	1.372 (34.85)	.390 (9.91)	A3116-ND	9.36	8.43	104693-5
70	1.872 (47.55)	.390 (9.91)	A3117-ND	10.95	9.86	104693-7
100	2.622 (66.60)	.390 (9.91)	A3118-ND	9.00	8.10	1-104693-0
Vertical Dual Row Surface Mount Receptacles						
10	.266 (6.75)	—	A29089-ND	3.50	3.17	104652-1
20	.516 (13.11)	—	A3103-ND	4.48	4.06	104652-2
30	.766 (19.46)	—	A29090-ND	5.64	5.12	104652-3
50	1.266 (32.16)	—	A3104-ND	9.33	8.45	104652-5
60	1.516 (38.51)	—	A29091-ND	10.12	9.17	104652-6
60	1.516 (38.51)	—	A31854-ND†	10.12	9.17	5-104652-6
70	1.766 (44.86)	—	A3105-ND	8.82	8.00	104652-7
80	2.016 (51.21)	—	A29092-ND	12.27	11.12	104652-8
100	2.516 (63.91)	—	A31855-ND†	10.71	9.70	6-104652-0

† ***RoHS Compliant***

Header

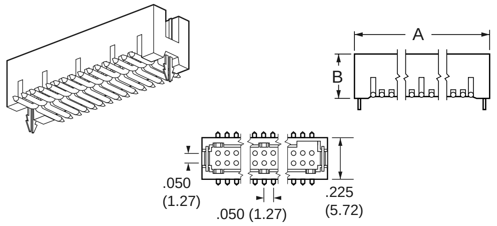

Receptacle

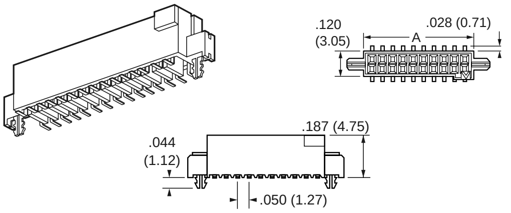

AMPMODU System 50 Cable to Board Connectors – .050" Spacing

Housing: Black thermoplastic, 94V-0 rated. **Contacts:** Copper alloy, plated gold in mating area.

Fig.	Description	No. of Positions	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
		Dual Row Receptacle, .025 "Ribbon Cable"					
1	Receptacle IDC	10	.510 (12.95)	A29136-ND	4.45	2.79	111196-1
		10	.510 (12.95)	A31856-ND†	4.13	3.75	2-111196-5
		20	.760 (19.30)	A31857-ND†	4.66	4.23	1-111196-8
		24	.860 (21.84)	A29132-ND	8.53	5.35	111196-5
		24	.860 (21.84)	A31858-ND†	7.76	7.04	2-111196-8
		26	.910 (23.11)	A29129-ND	8.80	5.52	111196-6
		26	.910 (23.11)	A31859-ND†	8.24	7.47	2-111196-9
		30	1.010 (25.65)	A29128-ND	9.91	6.21	111196-7
		30	1.010 (25.65)	A31860-ND†	6.41	5.81	1-111196-9
		40	1.260 (32.00)	A31861-ND†	7.76	7.04	2-111196-0
		50	1.510 (38.35)	A31862-ND†	13.52	12.24	2-111196-1
		60	1.760 (44.70)	A29134-ND	16.75	10.50	1-111196-2
		60	1.760 (44.70)	A31863-ND†	15.66	14.19	2-111196-2
		80	2.260 (57.40)	A31864-ND†	13.83	12.53	3-111196-3
		100	2.760 (70.10)	A31865-ND†	16.48	14.93	2-111196-4
		Dual Row (Figures 2 and 3 Mate with Figure 4)					
2	Protected, Right Angle Header	24	.730 (18.54)	A24196-ND	4.53	4.08	1-104069-2
		30	.880 (22.35)	A3205-ND	6.15	5.54	104069-5
		30	.880 (22.35)	A31867-ND†	5.61	5.05	5-104069-5
		40	1.130 (28.70)	A3206-ND	11.28	10.16	104069-6
		40	1.130 (28.70)	A31868-ND†	8.22	7.40	5-104069-6
		50	1.380 (35.05)	A31869-ND†	10.35	9.32	5-104069-2
		60	1.630 (41.40)	A3208-ND	17.07	15.37	104069-7
		60	1.630 (41.40)	A31870-ND†	12.42	11.18	5-104069-7
		80	2.130 (54.10)	A24197-ND	16.53	14.88	104069-3
		100	2.630 (66.80)	A3209-ND	20.67	18.61	1-104069-7
3	Protected, Vertical Header	16	.530 (13.46)	A24198-ND	2.79	2.52	1-104068-0
		20	.630 (16.00)	A3210-ND	3.72	3.35	104068-1
		24	.730 (18.54)	A24832-ND	4.11	3.70	1-104068-1
		30	.880 (22.35)	A3211-ND	5.16	4.65	104068-3
		40	1.130 (28.70)	A3212-ND	7.50	6.75	104068-4
		50	1.380 (35.05)	A31871-ND†	9.42	8.48	5-104068-5
		60	1.630 (41.40)	A3214-ND	11.28	10.16	104068-6
		68	1.830 (46.48)	A24833-ND	11.64	10.48	1-104068-8
		80	2.130 (54.10)	A24834-ND	15.03	13.53	1-104068-6
		100	2.630 (66.80)	A3215-ND	18.81	16.93	1-104068-7
4	Vertical Receptacle	20	.544 (13.82)	A3216-ND	5.46	4.95	104078-1
		20	.544 (13.82)	A31872-ND†	5.46	4.95	5-104078-1
		24	.644 (16.36)	A28758-ND	4.48	4.06	104078-9
		30	.794 (20.17)	A3217-ND	5.59	5.07	104078-4
		40	1.044 (26.52)	A3218-ND	7.45	6.75	104078-2
		40	1.044 (26.52)	A31873-ND†	7.45	6.75	5-104078-2
		50	1.294 (32.87)	A3219-ND	9.30	8.43	104078-5
		50	1.294 (32.87)	A31874-ND†	9.30	8.43	5-104078-5
		60	1.544 (39.22)	A3220-ND	11.16	10.11	104078-6
		80	2.044 (51.92)	A28759-ND	14.89	13.49	104078-7
		100	2.544 (64.62)	A3221-ND	18.60	16.85	104078-8
		Single Row					
5	Protected, Right Angle Thru-Hole Header	4	.330 (8.38)	A0105-ND	1.62	1.46	104074-7
		8	.530 (13.46)	A0106-ND	2.16	1.95	1-104074-0
		8	.530 (13.46)	A31851-ND†	2.10	1.89	6-104074-0
		10	.630 (16.00)	A31852-ND†	2.40	2.16	5-104074-1
		12	.730 (18.54)	A0108-ND	3.00	2.70	1-104074-1
		15	.880 (22.35)	A31853-ND†	3.30	2.97	5-104074-3
		20	1.130 (28.70)	A0110-ND	4.89	4.41	104074-4
6	Protected, Vertical, Thru-Hole Header	4	.330 (8.38)	A0100-ND	.90	.81	104071-7
		6	.430 (10.92)	A0101-ND	1.35	1.22	104071-8
		12	.730 (18.54)	A0102-ND	2.43	2.19	1-104071-1
		20	1.130 (28.70)	A0103-ND	4.11	3.70	104071-4
		25	1.380 (35.05)	A0104-ND	5.64	5.08	104071-5

† RoHS Compliant

Fig. 1

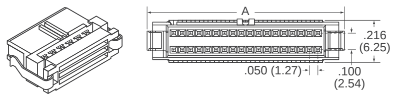

Fig. 2 **(Figures 2 & 3 mate with Figure 4)**

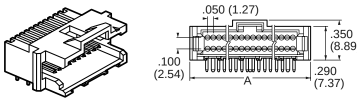

Fig. 3

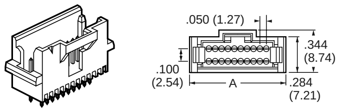

Fig. 4

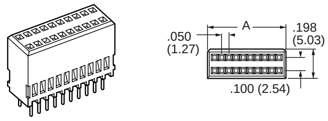

Fig. 5

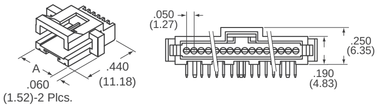

Fig. 6

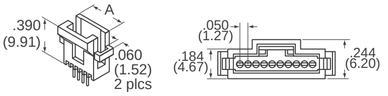

SMT Headers and Receptacles – .050" X .100"

Housing: Glass filled, black thermoplastic, 94V-0 rated. **Contacts:** Phosphor bronze, plated gold in mating area.

Vertical Dual Row Surface Mount Header

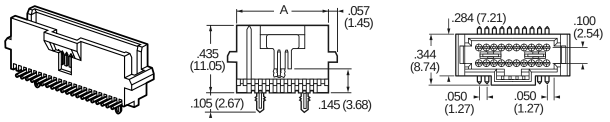

Vertical Dual Row Surface Mount Receptacle

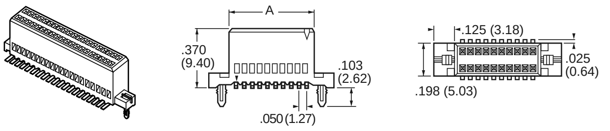

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
	Vertical Dual Row Surface Mount Headers				
20	.630 (16.00)	A31875-ND†	3.69	3.33	5-104549-2
30	.880 (22.35)	A3252-ND	5.55	5.00	104549-5
30	.880 (22.35)	A31876-ND†	5.55	5.00	5-104549-5
40	1.130 (28.70)	A31877-ND†	7.44	6.70	5-104549-6
50	1.380 (35.05)	A3256-ND	9.33	8.40	104549-7
50	1.380 (35.05)	A31878-ND†	9.33	8.40	5-104549-7
100	2.630 (66.80)	A3260-ND	18.63	16.77	1-104549-0
100	2.630 (66.80)	A31879-ND†	18.63	16.77	6-104549-0

No. of Pos.	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
	Vertical Dual Row Surface Mount Receptacles				
20	.544 (13.82)	A3251-ND	3.90	3.53	104550-2
30	.794 (20.17)	A3253-ND	5.86	5.31	104550-4
40	1.044 (26.52)	A3255-ND	7.82	7.08	104550-5
40	1.044 (26.52)	A31880-ND†	7.82	7.08	5-104550-5
50	1.294 (32.87)	A31881-ND†	9.75	8.84	5-104550-6
100	2.544 (64.62)	A3261-ND	19.53	17.69	104550-9

† RoHS Compliant

HIROSE ELECTRIC CO.,LTD.

High Density I/O Connectors

DXM series high-density I/O connectors with bellow contacts have an interconnect design to ensure positive locking, effortless coupling, terminal protection and EMI reduction in a miniaturized and rugged package. DXM series offer one of the most varied and complete lines of High-Density connectors in the world.

Applications: Office, factory and home automation, computers, measurement, communication and control equipment, and other commercial applications needing high density interconnections.

Features: • 1.27mm (0.050") contact spacing conserves valuable board space and permits ultra-high density designs • Bellow contacts create smooth and precise mating • Unique shell design assures first make/last break grounding and overall noise protection • IDC termination allows quick and low cost termination to AWG #28 wires • Backshell and receptacle shell are made of diecast zinc alloy or stainless steel to reduce the penetration of external EMI noise • Overmold backshell provided for EDS protection is available in "one-touch" locking and "screw" locking • Termination methods are available in IDC, soldering, right angle dip, straight dip and SMT

Specifications: • Current capacity: 0.5A • Rated voltage: AC125V • Insulation resistance: 250MΩ minimum @ 100VDC • Withstanding voltage: AC 300Vr.m.s. for 1 minute

Fig.	No. of Contacts	Dimension L (mm)	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
1	14	17.09	H10049-ND	9.07	7.68	5.76	DX30AM-14P
	20	20.90	H10050-ND	8.11	6.87	5.15	DX30AM-20P
	26	24.71	H10001-ND	8.87	7.51	5.63	DX30AM-26P
	36	31.06	H10051-ND	9.18	7.98	6.39	DX30AM-36P
	50	39.95	H10052-ND	10.86	9.44	7.56	DX30AM-50P
	68	51.38	H10053-ND	13.50	12.49	10.47	DX30AM-68P
	80	59.00	H10054-ND	14.31	13.48	11.79	DX30AM-80P
	100	71.70	H10048-ND	14.69	13.83	12.10	DX30AM-100P
2	20	20.90	H10063-ND	9.84	8.56	6.85	DX40M-20P
	26	24.71	H10064-ND	10.70	9.30	7.44	DX40M-26P
	36	31.06	H10065-ND	10.60	9.81	8.22	DX40M-36P
	50	39.95	H10066-ND	12.34	11.42	9.57	DX40M-50P
	100	71.70	H10062-ND	18.45	17.84	15.99	DX40M-100P
3	14	29.54	H10027-ND	4.84	4.01	3.01	DX10G1M-14S
	20	33.35	H10035-ND	5.39	4.47	3.35	DX10GM-20S
	26	37.16	H10029-ND	5.28	4.37	3.28	DX10G1M-26S
	36	43.51	H10031-ND	6.32	5.24	3.93	DX10G1M-36S
	50	52.40	H10033-ND	6.58	5.45	4.09	DX10G1M-50S
	68	63.83	H10037-ND	8.87	7.51	5.63	DX10GM-68S
	14	29.54	H10028-ND*	4.21	3.48	2.61	DX10G1M-14SE
	20	33.35	H10036-ND	5.57	4.61	3.46	DX10GM-20SE
	26	37.16	H10030-ND*	4.41	3.65	2.74	DX10G1M-26SE
	36	43.51	H10032-ND*	4.21	3.48	2.61	DX10G1M-36SE
	50	52.40	H10034-ND*	5.89	4.88	3.66	DX10G1M-50SE
	68	63.83	H10038-ND	7.93	6.71	5.04	DX10GM-68SE
4	14	29.54	H10042-ND	8.50	7.20	5.40	DX20M-14S
	20	33.35	H10043-ND	8.51	7.40	5.92	DX20M-20S
	26	37.16	H10044-ND	9.02	7.84	6.28	DX20M-26S
	36	43.51	H10045-ND	9.52	8.28	6.63	DX20M-36S
	50	52.40	H10046-ND	10.51	9.14	7.32	DX20M-50S
	68	63.83	H10047-ND	10.60	9.81	8.22	DX20M-68S
5	68	63.83	H10025-ND	14.38	13.31	11.15	DX10BM-68S
	80	71.45	H10026-ND	13.70	12.90	11.29	DX10BM-80S
	100	84.15	H10023-ND	15.06	14.18	12.41	DX10BM-100S
6	100	—	H10024-ND	15.30	14.40	12.60	DX10BM-100SE
7	100	84.15	H10022-ND	11.88	10.99	9.21	DX10AM-100SE2
	100	84.15	H10021-ND	12.32	11.40	9.55	DX10AM-100SE1
8	68	63.83	H10040-ND	13.36	12.36	10.36	DX20BM-68S
	80	71.45	H10041-ND	13.21	12.44	10.88	DX20BM-80S
	100	84.15	H10039-ND	14.59	13.73	12.02	DX20BM-100S
9	100	—	H10055-ND	11.32	10.48	8.78	DX30M-100-CV1
10	14	25.79	H10056-ND	5.05	4.18	3.14	DX30M-14-CV(10)
	20	29.60	H10057-ND	4.64	3.84	2.88	DX30M-20-CV(10)
	26	33.50	H10058-ND	5.28	4.37	3.28	DX30M-26-CV(10)
	36	39.80	H10059-ND	5.28	4.37	3.28	DX30M-36-CV(10)
	50	48.70	H10060-ND	6.73	5.57	4.18	DX30M-50-CV(10)
	68	60.13	H10061-ND	7.16	5.93	4.45	DX30M-68-CV(10)
11	50	—	H10067-ND	18.15	17.55	15.73	DX70M-50P(TB)CV

* With Board Locks

Fig. 1 – Plug Discrete IDC

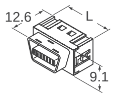

Fig. 2 – Plug Solder Type

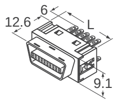

Fig. 3 – Board Lock Pin Harpoon Type

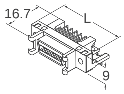

Fig. 4 – Receptacle Straight Type

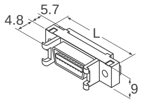

Fig. 5 – Board Screw on Type

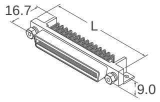

Fig. 6 – Board Lock Pin, Round Type

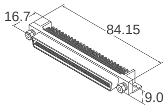

Fig. 7 – Board Lock Pin Harpoon Type

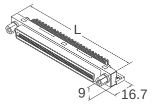

Fig. 8 – Receptacle Straight Type

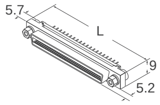

Fig. 9 – Backshell Stainless Steel

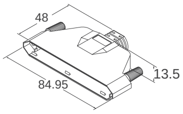

Fig. 10 – Backshell Plastic, Beige

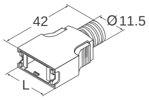

Fig. 11 – Terminator

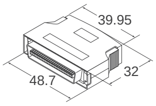

EDAC INC

Rack and Panel Connectors — 516 Series

Features: • UL Recognized • Plug and receptacle in 20, 38, 56, 90 or 120 contact sizes • Contact termination options include crimp, P.C. tail, wire hole and wire wrap • Mating and unmating simplified with use of actuating screws • Contacts suitable for either plug or receptacle

Specifications: • Insulator Material: Diallyl Phthalate, Color: Green, or Polycarbonate Color: Grey • Contact Material: Phosphor Bronze Alloy CA-510 • Contact Plating: Gold over nickel for entire contact • Cover Material: Die-cast zinc, finished with grey enamel paint • Current Rating: 8.5 Amperes • Contact Resistance: 10 Milliohms maximum • Dielectric Withstanding Voltage: 2000VAC rms at sea level • Insulation Resistance: 5000MΩ minimum • Operating Temperature: -65°C ~ 125°C • Insertion and Withdrawal Force: 2 to 16 oz. (0.56 to 4.45 N) per contact position

Fig.	No. of Contacts	Description	Digi-Key Part No.	Price Each 1	25	EDAC Part No.
1	20	Plug with Screw	151-1024-ND	8.48	6.36	516-020-000-301
	20	Plug with Nut	151-1025-ND	6.18	4.64	516-020-000-302
	20	Receptacle with Screw	151-1026-ND	8.07	6.05	516-020-000-401
	20	Receptacle with Nut	151-1027-ND	6.06	4.56	516-020-000-402
2	38	Plug with Screw	151-1028-ND	8.60	6.46	516-038-000-301
	38	Plug with Nut	151-1029-ND	6.07	4.57	516-038-000-302
	38	Receptacle with Screw	151-1030-ND	8.50	6.38	516-038-000-401
	38	Receptacle with Nut	151-1031-ND	5.87	4.41	516-038-000-402
3	56	Plug with Screw	151-1032-ND	8.59	6.45	516-056-000-301
	56	Plug with Nut	151-1033-ND	6.26	4.70	516-056-000-302
	56	Receptacle with Screw	151-1034-ND	8.59	6.44	516-056-000-401
	56	Receptacle with Nut	151-1035-ND	6.09	4.58	516-056-000-402

Fig. 1 – 20 Pin Plug and Receptacle, Grey

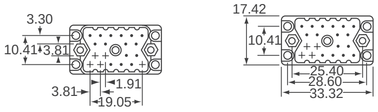

Fig. 2 – 38 Pin Plug and Receptacle, Grey

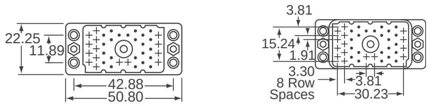

Fig. 3 – 56 Pin Plug and Receptacle, Grey

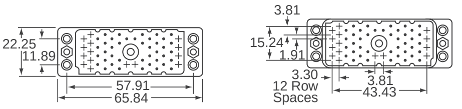

(Continued)

EDAC INC Rack and Panel Connectors — 516 Series *(Cont.)*

Fig.	No. of Contacts	Description	Digi-Key Part No.	Price Each 1	25	EDAC Part No.
4	90	Plug with Screw	151-1036-ND	16.62	12.48	516-090-000-301
	90	Plug with Nut	151-1037-ND	7.58	5.70	516-090-000-302
	90	Receptacle with Screw	151-1038-ND	16.32	12.25	516-090-000-401
	90	Receptacle with Nut	151-1039-ND	7.37	5.53	516-090-000-402
5	120	Plug with Screw	151-1040-ND	19.46	14.60	516-120-000-101
	120	Plug with Nut	151-1041-ND	10.09	7.58	516-120-000-102
	120	Receptacle with Screw	151-1042-ND	19.85	14.89	516-120-000-201
	120	Receptacle with Nut	151-1043-ND	10.47	7.86	516-120-000-202
6	—	Cover for 20 Position	151-1044-ND	13.81	10.37	516-230-520
	—	Cover for 38 Position	151-1045-ND	14.83	11.13	516-230-538
	—	Cover for 56 Position	151-1046-ND	16.22	12.17	516-230-556
	—	Cover for 90 Position	151-1047-ND	16.63	12.48	516-230-590
	—	Cover for 120 Position	151-1048-ND	18.36	12.64	516-230-512
7A	—	Solder Eyelet	151-1049-ND	—	4.00	516-290-500
7B	—	Soldertail	151-1050-ND	—	3.55	516-290-520
7C	—	Wirewrap	151-1051-ND	—	4.69	516-290-541
7D	—	Crimp Type	151-1052-ND	—	4.00	516-290-590
—	—	Crimp Tool	151-1058-ND	175.30	—	516-280-201
—	—	Extraction Tool	151-1059-ND	54.02	—	516-280-300

Fig. 4 – 90 Pin Plug and Receptacle, Grey

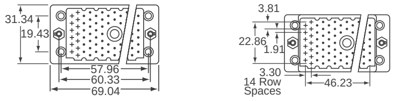

Fig. 5 – 120 Pin Plug and Receptacle, Green

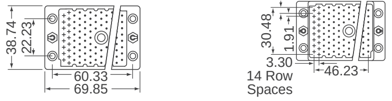

Fig. 6 – Metal Connector Cover

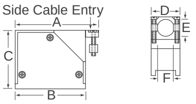

No. of Cont.	Dimensions A	B	C	D	E	F
20	39.09	33.66	23.01	17.42	11.33	12.45
38	56.03	50.95	39.78	22.23	18.29	14.61
56	71.17	66.09	39.78	22.23	18.29	14.61
90	79.20	69.04	45.09	31.34	22.35	22.86
120	80.65	69.85	51.31	38.89	22.61	27.43

Fig. 7 – Contacts

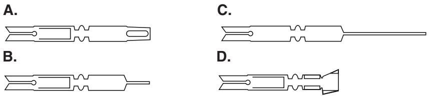

Telecom Connectors — B57 Series

RoHS COMPLIANT

Specifications: • Mate with other industry standard telecom connectors • Blue (50 pin) or black (64-pin) thermoplastic polyester • Contact Material: Phosphor Bronze • Contact Plating: Gold over nickel plate for the mating area • Shell Material: Nickel-plated steel • Operating Temperature: -55°C ~ 125°C • Current Rating: 2A • Contact Resistance: 30mΩ maximum • Insulator rated UL94 V-0 • Insulation Resistance: 5000MΩ minimum

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
1	Receptacle, Vertical, 50-Pos., Pressfit	151-1096-ND	6.14	5.45	4.36	B57-050-220-202
	Receptacle, Vertical, 50-Pos., Thru-Hole	151-1097-ND	2.36	2.09	1.68	B57-050-221-202
2	Receptacle, Right Angle, 50-Pos., Thru-Hole	151-1098-ND	8.34	7.40	5.92	B57-050-260-202

Fig. 1 – **Thru-Hole**

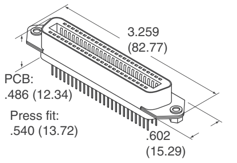

Fig. 2 – **Thru-Hole**

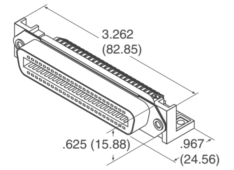

tyco Electronics AMP

CHAMP® Parallel Interface Connectors

For Discrete Wire Termination

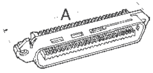

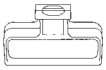

No. of Pos.	Dimension A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
22 AWG, Solid or Stranded — RoHS Compliant						
14	1.750 (44.45)	Plug, Screw Lock	A24234-ND◊	3.78	3.02	552300-1
24	2.175 (55.25)	Plug, Screw Lock	A24235-ND◊	6.48	5.18	552301-1
	1.951 (49.56)	Plug, Bail Lock	A24236-ND◊	4.33	3.46	552317-1
36	2.462 (62.53)	Plug, Bail Lock	A24237-ND◊	3.48	2.78	552318-1
50	3.280 (83.31)	Plug, Screw Lock	A24238-ND◊	2.96	2.37	552173-1
	3.056 (77.62)	Plug, Bail Lock	A24239-ND◊	11.85	9.48	552319-1
	3.280 (83.31)	Receptacle, Screw or Bail Lock	A24240-ND◊	7.73	6.18	552064-1
64	3.875 (98.43)	Plug, Screw Lock	A24241-ND◊	4.75	3.80	552303-1
		Receptacle, Screw or Bail Lock	A24242-ND◊	4.43	3.54	552307-1
Large Insulation Wire Connectors, 22 AWG Solid or Stranded						
50	3.280 (83.31)	Plug, Screw Lock	A24258-ND◊	5.23	4.18	556039-1
		Receptacle, Screw or Bail Lock	A24259-ND◊	4.55	3.64	555227-1
24-26 AWG, Solid or 24 AWG Stranded — RoHS Compliant						
14	1.750 (44.45)	Plug, Screw Lock	A24243-ND◊	3.68	2.94	552282-1
	1.526 (38.76)	Plug, Bail Lock	A24244-ND◊	6.78	5.42	552270-1
	1.750 (44.45)	Receptacle, Screw or Bail Lock	A24245-ND◊	3.30	2.64	552312-1
	1.750 (44.45)	Receptacle, Panel Mt., Screw or Bail Lock	A24246-ND◊	7.48	5.98	2-552271-1
24	2.175 (55.25)	Plug, Screw Lock	A24247-ND◊	4.55	3.64	552283-1
	1.951 (49.56)	Plug, Bail Lock	A1502-ND◊	3.85	3.08	552272-1
	2.175 (55.25)	Receptacle, Screw or Bail Lock	A24248-ND◊	5.00	4.00	552313-1
	2.175 (55.25)	Receptacle, Panel Mt., Screw or Bail Lock	A1508-ND◊	7.40	5.92	2-552273-1
36	2.685 (68.20)	Plug, Screw Lock	A24249-ND◊	3.43	2.74	552284-1
	2.462 (62.53)	Plug, Bail Lock	A1503-ND◊	3.76	3.01	552274-1
	2.685 (68.20)	Receptacle, Screw or Bail Lock	A24250-ND◊	6.93	5.54	552314-1
	2.685 (68.20)	Receptacle, Panel Mt., Screw or Bail Lock	A1509-ND◊	7.30	5.84	2-552275-1
50	3.280 (83.31)	Plug, Screw Lock, Thick Flange	A1540-ND◊	2.38	1.91	229974-1
	3.056 (77.62)	Receptacle, Screw Lock, Thick Flange	A1541-ND◊	2.31	1.86	229975-1
	3.280 (83.31)	Plug, Bail Lock	A1542-ND◊	2.37	1.90	552032-1
	3.280 (83.31)	Receptacle, Panel Mt., Screw or Bail Lock	A1543-ND◊	2.72	2.18	2-552001-1
64	3.875 (98.43)	Plug, Screw Lock	A24252-ND◊	4.08	3.26	552285-1
	3.651 (92.74)	Plug, Bail Lock	A24253-ND◊	4.40	3.52	552276-1
	3.875 (98.43)	Receptacle, Screw or Bail Lock	A24254-ND◊	5.08	4.06	552315-1
	3.875 (98.43)	Receptacle, Panel Mt., Screw or Bail Lock	A24255-ND◊	4.43	3.54	2-552277-1
26-28 AWG, Stranded — RoHS Compliant						
24	3.875 (98.43)	Plug, Screw Lock	A1530-ND◊	9.15	7.32	552443-1
	1.951 (49.56)	Plug, Bail Lock	A1531-ND◊	7.50	6.00	552469-1
	3.875 (98.43)	Receptacle, Panel Mt., Screw or Bail Lock	A1533-ND◊	11.58	9.26	2-552474-1
36	2.685 (68.20)	Plug, Screw Lock	A1534-ND◊	6.78	5.42	552444-1
	2.462 (62.53)	Plug, Bail Lock	A1535-ND◊	6.98	5.58	552470-1
	2.685 (68.20)	Receptacle, Panel Mt., Screw or Bail Lock	A1537-ND◊	13.63	10.90	2-552475-1
50	3.280 (83.31)	Plug, Screw Lock, Thick Flange	A1544-ND◊	2.92	2.34	552390-1
		Receptacle, Screw Lock, Thick Flange	A1545-ND◊	2.90	2.32	552391-1
64	3.875 (98.43)	Plug, Screw Lock	A24256-ND◊	8.63	6.90	552488-1
Integral Locking Latch, Preassembled						
50	3.280 (83.31)	Receptacle, Black	A24262-ND	2.67	2.14	553921-1
64	3.875 (98.43)	Receptacle	A24263-ND	5.10	4.08	554381-2
Accessories						
Dust Covers						
24	—	Position, Receptacle, Red	A24285-ND◊	1.25	1.00	229969-4
36	—	Position, Receptacle, Red	A24286-ND◊	1.08	.87	229969-3
50	—	Position, Receptacle, Red	A24287-ND◊	.27	.14	229969-1
64	—	Position, Receptacle, Red	A24289-ND◊	.75	.60	229969-2
24	—	Position, Plug, Blue	A24192-ND◊	.92	.74	229968-4
36	—	Position, Plug, Blue	A24193-ND	.60	.49	229968-3
50	—	Position, Plug, Blue	A24194-ND◊	.15	.12	229968-1
64	—	Position, Plug, Blue	A24288-ND	.75	.60	229968-2
Hardware Kits						
Screw Lock Hardware Kit			A1525-ND	2.83	2.26	552568-1
Bail Lock Hardware Kit			A1526-ND	2.85	2.28	552567-1
Bent Bail Lock Hardware Kit use with 90° Strain Relief Cover			A24224-ND	2.43	1.94	552567-2
Tools						
Insertion Tool for CHAMP IDC Connector			A1528-ND	207.12	—	229764-2
T-Handle Wire Insertion Tool			A1529-ND	6.75	—	229384-1
Portable Hand Operated Tool (MI-1)			A24382-ND	956.36	—	229378-1
Palm Grip Tool			A24383-ND	170.10	—	229451-1

◊ RoHS Compliant

No. of Positions	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Strain Relief Covers					
180° Snap-On — RoHS Compliant					
14	.175 - .220 (4.45 - 5.59)	A24264-ND◊	5.19	4.15	552079-1
	.265 - .310 (6.73 - 7.87)	A24265-ND◊	2.64	2.12	2-552079-1
24	.230 - .280 (5.84 - 7.11)	A24266-ND◊	1.95	1.56	552076-1
	.280 - .320 (7.11 - 8.13)	A1506-ND◊	5.15	4.13	1-552076-1
	.320 - .380 (8.13 - 9.65)	A24267-ND◊	2.26	1.81	2-552076-1

◊ RoHS Compliant

(Continued)

CHAMP® Parallel Interface Connectors *(Cont.)*

No. of Positions	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
36	.290 - .360 (7.37 - 9.14)	A24268-ND◊	2.07	1.66	552073-1
	.360 -.430 (9.14 - 10.92)	A1507-ND◊	1.98	1.58	552073-5
	.430 - .500 (10.92 - 12.70)	A24269-ND◊	4.14	3.32	552073-6
50	.330 - .380 (8.38 - 9.65)	A24270-ND◊	2.67	2.14	3-552008-1
	.380 - .430 (9.65 - 10.92)	A24271-ND◊	1.65	1.32	2-552008-1
	.430 -.490 (10.92 - 12.45)	A1548-ND◊	2.11	1.89	552008-1
	.480 - .550 (12.19 - 13.97)	A24272-ND◊	1.89	1.52	4-552008-1
64	.480 - .540 (12.19 - 13.72)	A24274-ND◊	2.34	1.88	552082-1
90° Snap-On — RoHS Compliant					
14	.185 - .230 (4.70 - 5.84)	A24275-ND◊	3.24	2.60	552412-1
	.250 - .300 (6.35 - 7.62)	A24276-ND◊	1.72	1.38	1-552412-1
24	.250 - .300 (6.35 - 7.62)	A1538-ND◊	1.35	1.08	552413-1
	.305 - .360 (7.75 - 9.14)	A24277-ND◊	3.62	2.90	1-552413-1
36	.330 - .380 (8.38 - 9.65)	A24278-ND◊	2.66	2.13	3-552414-1
50	.340 - .400 (8.64 - 10.16)	A24279-ND◊	1.21	.97	552014-1
	.315 - .415 (8.00 - 10.54)	A24280-ND◊	.85	.68	1-552011-1
	.415 - .465 (10.54 - 11.81)	A1549-ND◊	.57	.46	552011-1
	.475 - .540 (12.07 - 13.72)	A24281-ND◊	1.09	.88	552731-1
64	.410 - .475 (10.41 - 12.07)	A24282-ND◊	1.15	.93	552496-1
	.475 - .540 (12.07 - 13.72)	A24283-ND◊	1.62	1.30	1-552496-1
	.540 - .605 (13.72 - 15.37)	A24284-ND◊	1.62	1.30	2-552496-1
No. of Positions	**Description**	**Digi-Key Part No.**	**Price Each 1**	**25**	**AMP Part No.**
Cable to Panel Mount (2 required per assembly) — RoHS Compliant					
24	Snap-On	A24290-ND◊	1.39	1.11	1-552298-1
50	Snap-On	A24291-ND◊	.34	.28	1-552027-1
64	Snap-On	A24292-ND◊	.71	.57	1-552296-1

◊ ***RoHS Compliant***

Vertical Mount

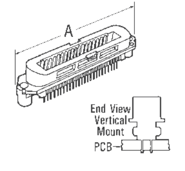

Edge Mount

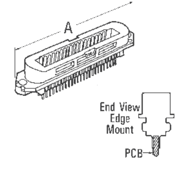

Right Angle

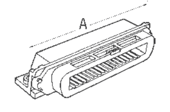

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Vertical Mount Connectors						
14	1.750 (44.45)	Receptacle, Screw or Bail Lock	A26165-ND	11.50	9.20	552212-1
24	2.175 (55.25)	Receptacle, Screw or Bail Lock	A1510-ND	7.88	6.30	552224-1
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A1511-ND	9.58	7.66	552235-1
64	3.875 (98.43)	Plug, Screw Lock	A24351-ND	13.25	10.60	552243-1
		Receptacle, Screw or Bail Lock	A24352-ND	11.40	9.12	552246-1
Vertical Mount Connectors — RoHS Compliant						
14	1.750 (44.45)	Receptacle, Screw or Bail Lock	A31849-ND◊	10.75	8.60	5552212-1
24	2.175 (55.25)	Plug, Screw Lock	A31838-ND◊	9.05	7.24	5552221-1
		Receptacle, Screw or Bail Lock	A31828-ND◊	7.38	5.90	5552224-1
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A31829-ND◊	8.95	7.16	5552235-1
50	3.280 (83.31)	Plug, Screw Lock	A31833-ND◊	4.93	3.94	5552116-1
		Receptacle, Screw or Bail Lock	A31834-ND◊	4.98	3.98	5552118-1
64	3.875 (98.43)	Plug, Screw Lock	A31839-ND◊	12.38	9.90	5552243-1
		Receptacle, Screw or Bail Lock	A31840-ND◊	10.65	8.52	5552246-1
Edge Mount Connectors						
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A1513-ND	20.90	16.72	552241-1
50	3.280 (83.31)	Receptacle, Screw or Bail Lock	A1553-ND	10.30	8.24	552130-1
Edge Mount Connectors — RoHS Compliant						
36	2.685 (68.20)	Receptacle, Screw or Bail Lock	A31830-ND◊	19.53	15.62	5552241-1
50	3.280 (83.31)	Receptacle, Screw or Bail Lock	A31835-ND◊	9.63	7.70	5552130-1
Edge Mount With ACTION PIN Connectors — RoHS Compliant						
36	2.685 (68.20)	Plug	A24388-ND◊	13.03	10.42	553444-3
		Receptacle	A24389-ND◊	9.83	7.86	553443-3

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
50	3.280 (83.31)	Receptacle	A24390-ND◊	5.20	4.16	553443-4
		Plug	A24392-ND◊	5.20	4.16	553444-4
		Receptacle, Self-Retained Terminals	A24393-ND◊	5.88	4.70	554753-1
		Plug, Self-Retained Terminals	A24394-ND◊	6.63	5.30	554758-1
		Receptacle, Shielded for Screw Lock	A24395-ND◊	10.75	8.60	557984-1
64	3.875 (98.43)	Plug	A24396-ND◊	14.13	11.30	554759-1
		Receptacle	A24397-ND◊	11.05	8.84	553443-5
Right-Angle Mount Connectors						
24	2.175 (55.25)	Receptacle, Standard, Self-Tapping	A24354-ND*	10.33	8.26	552791-1
		Receptacle, Reverse, Self-Tapping	A24356-ND	10.40	8.32	552740-2
		Receptacle, Standard	A27167-ND	18.80	15.04	553121-1
36	2.685 (68.20)	Receptacle, Standard, Self-Tapping	A1515-ND	9.80	7.84	552742-1
50	3.280 (83.31)	Plug, Standard, Self-Tapping	A1555-ND	6.10	4.88	552726-1
		Plug, Reverse, Self-Tapping	A24358-ND	8.20	6.56	552726-3
64	3.875 (98.43)	Plug, Standard, Self-Tapping	A24361-ND	20.83	16.66	552745-1
Right-Angle Mount Connectors — RoHS Compliant						
14	1.750 (44.45)	Receptacle, Standard, Self-Tapping	A31841-ND◊	18.30	14.64	5552738-1
24	2.175 (55.25)	Receptacle, Standard, Self-Tapping	A31831-ND◊	9.65	7.72	5552740-1
		Receptacle, Standard, Self-Tapping	A31842-ND*◊	9.65	7.72	5552791-1
		Plug, Standard, Self-Tapping	A31843-ND◊	16.58	13.26	5552741-1
		Receptacle, Standard	A31850-ND◊	17.58	14.06	5553121-1
36	2.685 (68.20)	Receptacle, Standard, Self-Tapping	A31832-ND◊	9.15	7.32	5552742-1
50	3.280 (83.31)	Plug, Standard, Self-Tapping	A31837-ND◊	7.68	6.14	5552726-1
		Receptacle, Standard, Self-Tapping	A31836-ND◊	7.63	6.10	5552725-1
		Receptacle, Reverse, Self-Tapping	A31844-ND◊	7.68	6.14	5552725-3
		Plug, Reverse, Self-Tapping	A31845-ND◊	7.68	6.14	5552726-3
		Receptacle, Standard, Thru-Bolt	A31846-ND◊	8.53	6.82	5552725-2
64	3.875 (98.43)	Receptacle, Standard, Self-Tapping	A31847-ND◊	10.20	8.16	5552744-1
		Plug, Standard, Self-Tapping	A31848-ND◊	19.45	15.56	5552745-1

* For IEEE-488 applications ◊ ***RoHS Compliant***

No. of Pos.	Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
90° Slide-On Strain Relief Cover Kits & Accessories						
50	.425 - .500 (10.80 - 12.70)	Tapered Cover Kit	A24341-ND	2.21	1.77	552560-5
		Cable Clamp	A24342-ND◊	.23	.19	1-229910-1
	.350 - .425 (8.89 - 10.80)	Standard Cover Kit	A24343-ND	1.77	1.42	552960-2
		Tapered Cover Kit	A24344-ND	.57	.46	552560-1
	.500 - .550 (12.70 - 13.97)	Standard Cover Kit	A24345-ND	5.02	4.02	552960-5
		Cable Clamp	A24346-ND◊	.52	.42	4-229910-1
	.425 - .550 (10.80 - 13.97)	90° Slide-On Cover	A24347-ND◊	.62	.50	552617-1
	.425 Max. (10.80)	Cover Slide-on Strain Relief	A24348-ND◊	.71	.57	552760-1
		Adjustable Cable Clamp	A24349-ND◊	.40	.32	552763-1
Hardware Kits						
		Screw Lock Hardware Kit, Vertical Mount	A1523-ND	3.98	3.18	552563-1
		Bail Lock Hardware Kit, Vertical Mount	A1520-ND	2.15	1.72	552562-1
		J-Hook Screw Lock, Vertical Mount Kit	A24364-ND	5.13	4.10	552690-1
		Screw Lock Hardware Kit, Edge Mount	A1521-ND	7.95	6.36	552675-1
		Screw Lock Hardware Kit, Right Angle Mount	A1524-ND	1.93	1.54	552631-1
		Metric Front Mount Kit, Right Angle	A24362-ND	4.73	3.78	552633-3
		Metric Rear Mount Kit, Right Angle	A24363-ND	4.73	3.78	552633-4
		Bent Bail Lock, use with 90° Strain Relief	A24340-ND	4.70	3.76	552561-4
		Bail Lock, with Hex Nut 4-40	A24232-ND	1.36	1.09	552561-6
		Bail Lock, 90° Bail Clip	A24233-ND	3.23	2.58	552561-8
Accessories						
		Metric Standoff Studs	A24381-ND◊	2.19	1.76	552634-3
		Standoff Mounting Studs 4-40, Length .640 (16.26)	A24398-ND	.69	.56	229995-2
		Standoff Mounting Studs 4-40, Length 1.000 (25.40)	A24399-ND◊	.85	.68	552113-1
		4-40 Pan Head Screw - Length .425" (10.80)	A26166-ND	.13	.07	229996-2
		4-40 Pan Head Screw - Length .350" (8.89)	A24385-ND	.15	.08	229996-3
		J-Hook Latch for Panel Mount Receptacle to 90° Cable	A24386-ND◊	.57	.46	552655-1
		4-40 Mounting Screw	A1516-ND	1.17/10		229911-1

◊ ***RoHS Compliant***

CHAMP® Latch Parallel Interface and Ribbon Cable Connectors

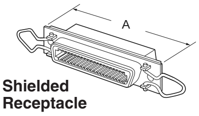

Shielded Receptacle

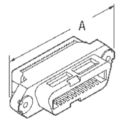

Receptacle

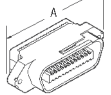

Plug

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
CHAMP® Latch Low Profile Connectors - Plastic						
Screw Lock						
14	1.750 (44.45)	Plug	A24213-ND	12.58	10.06	553596-1
14	1.750 (44.45)	Receptacle	A24214-ND	12.70	10.16	553597-1
24	2.175 (55.25)	Plug	A1559-ND	12.00	9.60	553598-1
24	2.175 (55.25)	Receptacle	A1561-ND	13.65	10.92	553599-1
36	2.685 (68.20)	Plug	A1563-ND	19.53	15.62	553600-1
36	2.685 (68.20)	Receptacle	A1565-ND	13.90	11.12	553601-1
50	3.280 (83.31)	Plug	A1567-ND	8.25	6.60	553602-1
50	3.280 (83.31)	Receptacle	A1569-ND	9.35	7.48	553603-1
64	3.875 (98.43)	Receptacle	A24190-ND	90.03	72.02	552838-1
Bail Lock						
36	2.685 (68.20)	Plug	A1564-ND	12.45	9.96	554084-1
64	3.651 (92.74)	Plug	A24221-ND	88.75	71.00	552933-1
Panel Mount						
24	2.175 (55.25)	Plug	A24215-ND	11.88	9.50	554103-1
24	2.175 (55.25)	Receptacle	A24216-ND	13.65	10.92	554088-1
36	2.685 (68.20)	Receptacle	A1566-ND	15.58	12.46	554089-1
50	3.280 (83.31)	Receptacle	A1570-ND	6.88	5.50	554090-1
64	3.875 (98.43)	Receptacle	A24191-ND	46.15	36.92	552843-1
Shielded CHAMP® Latch Panel Mount Connectors - Plastic						
Screw Lock, Preassembled						
24	2.205 (56.01)	Receptacle, 6-32	A1556-ND	15.33	12.26	554434-1
50	3.310 (84.07)	Receptacle, 4-40	A1557-ND	16.80	13.44	554436-2
Bail Lock, Preassembled						
36	2.715 (68.96)	Receptacle, 4-40	A1575-ND	15.20	12.16	554346-2
36	2.715 (68.96)	Receptacle, 4-40	A24218-ND*	15.20	12.16	555983-1
50	3.310 (84.07)	Receptacle, 4-40	A24219-ND*	8.05	6.44	554902-1
Screw Lock, Loose Pieces						
24	2.380 (60.45)	Receptacle	A1558-ND	15.33	12.26	554349-1
36	2.380 (60.45)	Receptacle	A24217-ND	15.48	12.38	554348-1
50	3.475 (88.27)	Receptacle	A1574-ND	16.23	12.98	554350-1
Hardware Kits						
		Bail Lock, 4-40 UNC x .500"(12.70)	A1517-ND	2.15	1.72	552561-3
		Front Panel Mount Metric Screw Lock	A24222-ND	4.45	3.56	553636-2
		Rear Panel Mount Metric Screw Lock	A24223-ND	5.80	4.64	553636-3
		Shielded Screw Lock, Rear Mount 4-40	A1578-ND	4.88	3.90	554272-1
		Shielded Screw Lock, Rear Mount Metric	A1579-ND	2.53	2.03	554808-1
Accessories						
		Latch Cable Strain Relief Clip, 50 Pos. for Low Profile	A24227-ND	3.08	2.46	554099-1

* Does not have boss feature. Boss is a .040" (1.02) shoulder on front of shield.

CHAMP® Connector Kits

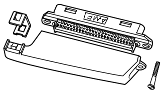

Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
50 Position with Tapered Cover Solid and Stranded Kits					
0.550 max. (13.97)	Plug, Black	A24324-ND	4.30	3.44	552382-1
	Receptacle, Black	A24325-ND	10.45	8.36	552383-1
.350 ~ .425 (8.89 ~ 10.80)	Plug, Black	A1571-ND	3.13	2.51	229912-1
	Receptacle, Black	A1572-ND	3.16	2.54	229913-1
	Plug, Gray	A24326-ND	3.50	2.80	229912-4
	Receptacle, Gray	A24327-ND	3.50	2.80	229913-4
	Plug with Dust Cover, Black	A24328-ND	3.35	2.68	1-229912-1
	Recept. with Dust Cover, Black	A24329-ND	3.35	2.68	1-229913-1
.425 ~ .500 (10.80 ~ 12.70)	Plug, Black	A24332-ND	3.50	2.80	2-229912-1
	Receptacle, Black	A24333-ND	3.50	2.80	2-229913-1
	Plug with Dust Cover, Black	A24334-ND	3.65	2.92	3-229912-1
	Receptacle with Dust Cover, Black	A24335-ND	4.10	3.28	3-229913-1
.350 ~ .425 (8.89 ~ 10.80)	Plug, Black	A24336-ND	4.70	3.76	552402-1
	Receptacle, Black	A24337-ND	6.38	5.10	552403-1
50 Position CHAMP System 5 Connectors					
.51 (12.95)	Plug, 24 AWG Solid, Red	A24365-ND	17.33	13.86	1-558693-1
.350 ~ .680 (8.89 ~ 17.27)	120° Strain Relief, Light Almond	A24366-ND	4.45	3.56	569336-1
	120° Strain Relief, Black	A24367-ND	2.48	1.98	569336-3
.650 ~ .750 (16.51 ~ 19.05)	90° Strain Relief, Lt. Almond Cvr.	A24368-ND	5.10	4.08	569335-1
50 Position CHAMP Connector With Crimp Cable Clamp					
—	Plug , 24-26 AWG Solid or Stranded	A24369-ND	2.94	2.35	553213-3
—	Recept., 24-26 AWG Solid or Strand.	A24370-ND	3.14	2.52	553212-3
—	Wear Adapter (Plug to Recept. Assy.)	A24372-ND	20.55	16.44	552705-1
CHAMP-LOK Hardware Kits					
	Locking Latch, 36 or 50 Positions	A24338-ND	.41	.34	552723-1
	Locking Latch, 14 or 24 Positions	A24339-ND	1.12	.90	552723-2

Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Back-to-Back Connector Assembly					
.380 ~ .400 (9.65 ~ 10.16)	24 AWG Cable to Cable Kit, 50 Pos.	A24373-ND	30.28	24.22	553257-1
.300 ~ .375 (7.62 ~ 9.53)	Back to Back Kit, 24 Pos.	A24374-ND	27.08	21.66	555182-1
.300 ~ .375 (7.62 ~ 9.53)	Snap-on-Cover, 24 Pos.	A24375-ND	6.33	5.06	554831-1
50 Position Gender Menders					
—	Receptacle without J-Hook Hardware	A24378-ND	40.25	32.20	554875-2
—	Plug with J-Hook Hardware	A24379-ND	37.30	29.84	554876-1
—	Plug with out J-Hook Hardware	A24380-ND	39.78	31.82	554876-2

CHAMP® Shielded Connectors

Terminals: Selectively plated gold over nickel plated high strength copper alloy, tin plated tails.
Housing & Cover Material: Thermoplastic, black

Screw-Lock

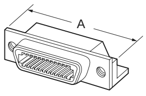

Bail Lock

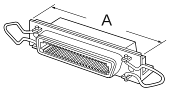

Cable Connector Kits

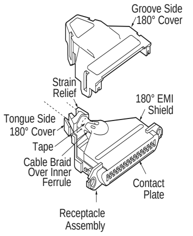

Board Lock Grounding

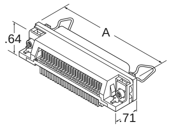

Vertical Mount

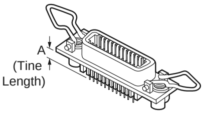

No. of Pos.	Dim. A Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Right Angle, Preassembled Screw Lock						
24	2.205 (56.01)	Receptacle, Standard, 6-32	A15016-ND	9.98	7.98	553811-1
24	2.205 (56.01)	Receptacle, Reverse, 6-32	A24294-ND	34.95	27.96	553811-2
50	3.305 (83.95)	Receptacle, Reverse, 4-40	A24295-ND	10.18	8.14	553813-4
50	3.305 (83.95)	Receptacle, Standard, 4-40	A15001-ND	8.40	6.72	553813-3
Right Angle, Preassembled Bail Lock						
36	2.710 (68.83)	Receptacle, Standard, 4-40	A24298-ND	21.33	17.06	555233-1
50	3.305 (83.95)	Receptacle, Standard, 4-40	A15002-ND	10.65	8.52	554901-1
Right Angle, Board Lock Grounding						
24	2.205 (56.01)	Screw Lock, 6-32, Standard	A24299-ND	9.70	7.76	554923-2
24	2.205 (56.01)	Screw Lock, 6-32, Reverse	A24300-ND	12.70	10.16	554923-1
24	2.205 (56.01)	Screw Lock, 6-32, Low Pro., Reverse	A24301-ND	15.20	12.16	555139-1
24	2.205 (56.01)	Screw Lock, 6-32, Low Profile, Std.	A24302-ND	39.03	31.22	555139-2
36	2.715 (68.96)	Bail Lock, 4-40, Standard	A24303-ND	8.30	6.64	555119-1
36	2.715 (68.96)	Bail Lock, 4-40, Standard	A15004-ND*	8.03	6.42	555520-2
50	3.320 (84.33)	Bail Lock, 4-40, Standard	A15003-ND	11.33	9.06	555057-1
50	3.320 (84.33)	Screw Lock, 4-40, Standard	A24304-ND	13.85	11.08	557932-2
50	3.310 (84.07)	IBM Compatible, Bail Lock, 4-40	A15005-ND	10.10	8.08	555149-1
Vertical Mount						
24	.150 (3.81)	Screw Lock, 6-32	A24305-ND	14.63	11.70	554501-1
24	.215 (5.46)	Screw Lock, 6-32	A24306-ND	28.63	22.90	554501-2
36	.215 (5.46)	Bail Lock, 4-40	A24307-ND	12.55	10.04	554145-4
50	.135 (3.43)	Bail Lock, 4-40	A15008-ND	12.23	9.78	554216-3
50	.200 (5.08)	Screw Lock, 4-40	A24308-ND	12.80	10.24	554217-4
Hardware Kits						
—	—	Vert. Mt., Pan Head Screws (2 req.)	A24309-ND	3.50	2.80	554043-2
—	—	Vert. Mt., Metric Standoff Screws (panhead screw and standoff)	A24310-ND	10.58	8.46	554858-1
—	—	Vert. Mt. Metric Standoff Screws (panhead screw and standoff)	A32497-ND† ***NEW!***	9.88	7.90	5554858-1

* Has drawn metal shield † ***RoHS Compliant***

No. of Pos.	Cable Range Inch (mm)	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Cable Connector Kits						
Plug — Solid or Stranded						
36	.250 ~ .500 (6.35 ~ 12.70)	Screw Lock, 24-26 AWG	A24313-ND•	24.70	19.76	554951-2
		Bail Lock, 24-26 AWG	A24314-ND•	9.63	7.70	554950-2
		Bail Lock, 26-28 AWG	A15010-ND•	9.95	7.96	554950-1
50	.350 ~ .625) (8.89 ~ 15.88	Screw Lock, 24-26 AWG	A24315-ND•	7.35	5.88	554954-2
		Screw Lock, 26-28 AWG	A15012-ND•	7.00	5.60	554954-1
		Bail Lock, 26-28 AWG	A15011-ND•	5.38	4.30	554953-1
		Bail Lock, 24-26 AWG	A24316-ND•	6.55	5.24	554953-2
		Bail Lock, 26-28 AWG	A29102-ND•	10.84	8.67	5-554953-1
50	.370 max. (9.40)	Bail Lock, 90° Exit, Gray	A24319-ND•	12.40	9.92	5-555012-2
Receptacle — Solid or Stranded						
50	.350 ~ . 625 (8.89 ~ 15.88)	Screw or Bail Lock, 26-28 AWG	A24318-ND•	7.70	6.16	554955-1
Cover Kits & Accessories						
24	—	180° Cover	A15013-ND	12.60	10.08	554944-1
50	—	180° Cover - Cab. dia. ≤ .500 (12.70)	A15015-ND	2.82	2.26	554946-1
50	—	180° Cover - Cab. dia. ≥ .500 (12.70)	A24320-ND	2.64	2.12	554946-2
—	—	Cap. Pan Head Screw, 4-40 (2 req.)	A24321-ND	.31	.16	554726-1
—	—	Inner Ferrule .500 (12.7) Inside Dia.	A24323-ND	.36	.29	554725-6

• Cover sold separately

tyco Electronics AMP

1mm Card Edge Connectors Slot 1 / AGP / NLX

1mm Standard Edge Connectors have been developed specifically to meet the interconnection requirements for the latest technological advances in personal computers.

These include Intel's Pentium II™ processor (Slot 1), Accelerated Graphics Port (AGP), and the new NLX Form Factor motherboard.

FEATURES:

• 1mm contact spacing compatible with latest interconnection technology for Slot 1, AGP and NLX • High temperature housings suitable for surface mount reflow processes • Pivoting board lock feature offering connector centering before contacts enter pc board holes • Certified by Canadian Standards Association to Canadian and United States Requirements • Produced under a Quality Management System certified to ISO 9001

PERFORMANCE CHARACTERISTICS: • **Operating Temperature:** 0°C ~ 85°C • **Voltage:** 250VAC • **Characteristic Impedance:** 35<20<80Ω • **Termination Resistance:** 20mΩ maximum (initial) • **Insulation Resistance:** 1000MΩ minimum • **Dielectric Withstanding Voltage:** 400VAC @ sea level • **Durability:** 50 cycles minimum • **Engaging Force:** 3.3 oz. (.917 N) maximum average per contact pair • **Separating Force:** 1.98 ~ .35 oz. (.550 to .097N) per contact pair

Fig. 1

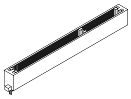

Fully compatible with Intel Pentium II processor module

Fig. 2

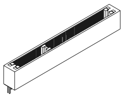

Brings high performance 3-D graphics and full motion video to the desktop

Fig. 3

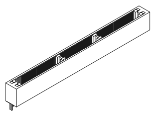

Riser Card Interconnect for new NLX Form Factor motherboard

Fig. 4

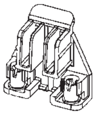

Complete 2 module kit. Required for one processor.

Fig. 5

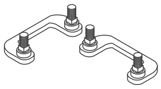

Housing: Nylon, black
Hardware: Brass, copper alloy finish

Fig. 6

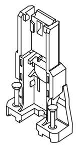

Fig. 7

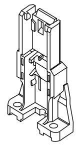

Fig. 8

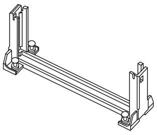

Fig. 9

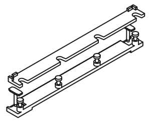

Fig.	Description	Solder Tail Length	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
	1mm Standard Edge Connector					
1	242 Position Slot 1 Connector for Pentium II and Celeron Processors	.100 (2.54)	A15102-ND	6.55	5.24	145251-2
2	124 Position AGP (Accelerated Graphics Port)	.085 (2.16)	A15103-ND	4.68	3.74	145263-1
	Connector for AGP Card	.100 (2.54)	A15104-ND	4.40	3.52	145263-2
3	340 Position NLX Riser Card Interconnect	.100 (2.54)	A15106-ND	9.80	7.84	145275-2
	Celeron Retention Modules					
4	Module Kit with Captive Brass Fasteners, 2 pieces (Use with 145312-1 Bridge/Stud Assembly)		A15108-ND	15.58	12.46	145342-1
5	Bridge/Stud Assembly for #145342-1. One Bridge/Stud Assembly Required for Each Retention Module		A15109-ND	3.45	2.76	145312-1
	Universal Retention Modules (URM)					
6	URM with Straight Pin Plastic Fasteners. Compatible with .159" (4.04mm) Holes, 2 pieces		A15115-ND	3.25	2.60	145417-2
7	URM with Clearance Hole for #6 Screw. Customer Supplies Fastener Hardware, 2 pieces		A15117-ND	2.30	1.84	145419-2
	Integrated Retention Modules					
8	Pentium II Retention Module with Fastex Plastic Fasteners		A15113-ND	5.98	4.78	145327-1
	Pentium II Retention Module with Slotted, Captive Nuts		A15118-ND	7.13	5.70	145286-1
	Heat Sink Support Kit					
9	Heat Sink Support Base with Plastic Fasteners for use with Integrated Retention Module #145327-1		A15114-ND	6.75	5.40	145308-1

3M

D-Sub Mounting Hardware

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 500	3M Part No.
1	Jack Screw Kit	MDVS22-ND	1.04	.79	.72	3342-1
2	Jack Screw Kit	MDVS62-ND	1.25	.95	.86	3342-2
3	Jack Screw Kit	MDVS35-ND	.83	.64	.58	3342-4
4	Screw Mount Kit	MDSMK1-ND	.89	.68	.62	3342-3
5	Jack Socket Kit	MDVS44-ND	1.77	1.35	1.22	3341-1S
6	Jack Socket Kit	MDVS73-ND	1.60	1.22	1.11	3341-2
7	Jack Socket Kit	MDVS50-ND	1.77	1.35	1.22	3341-1L
8	Jack Socket Kit	MDVS81-ND	1.85	1.41	1.28	3341-4

Fig. 1

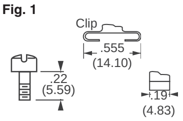

Kit includes 2 screws and 2 clips.

Fig. 2

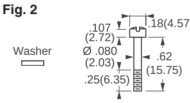

Kit includes 2 screws and 2 flat washers.

Fig. 3

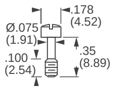

Kit includes 2 screws.

Fig. 4

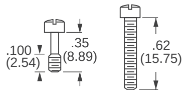

Kit includes 2 screws.

Fig. 5

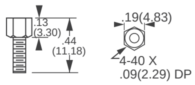

Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

Fig. 6

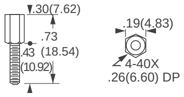

Kit includes 2 sockets, 2 lock washers, and 2 nuts.

Fig. 7

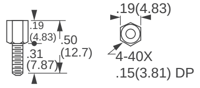

Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

Fig. 8

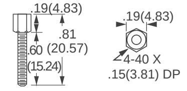

Kit includes 2 sockets, 4 flat washers, 2 lock washers, and 2 nuts.

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE ELECTRONICS CORP

Connector Hardware

Material: Steel, Zinc Plate and Gold Iridite.
Threads: 4-40

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 5	Price Each 50	Keystone Part No.
1	Jack Screws 4/40 thread, (1 pkg. = 2 screws) 2 pc. required per connector	2073K-ND	5.35	4.69	4.35	2073
2	Jack Screws 4/40 thd. slim line, 1.25", (1 pkg. = 2 screws) 2 pc. required per connector	2069K-ND	5.17	4.66	3.36	2069
2	Jack Screws 4/40 thd. slim line, 1.75", (1 pkg. = 2 screws) 2 pc. required per connector	2071K-ND	4.35	3.81	3.54	2071
3	Jack Screws 4/40 x .250" (1pkg. = 2 screws) 2 pc. required per connector	7228K-ND	.31	.28	.26	7228
3	Jack Screws 4/40 x .250" (1pkg. = 2 screws) 2 pc. required per connector	7228-5K-ND*	.31	.28	.26	7228-5
3	Jack Screws 4/40 x .312" (1pkg. = 2 screws) 2 pc. required per connector	7230K-ND	.26	.24	.20	7230
3	Jack Screws 4/40 x .312" (1pkg. = 2 screws) 2 pc. required per connector.	7230-5K-ND*	.53	.47	.39	7230-5
3	Jack Screws 4/40 x .625" (1pkg. = 2 screws) 2 pc. required per connector.	7232K-ND	.63	.56	.52	7232
3	Jack Screws 4/40 x .625" (1pkg. = 2 screws) 2 pc. required per connector.	7232-5K-ND*	.63	.56	.52	7232-5
3	Jack Screws 4/40 x .250" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)	7229K-ND	1.01	.92	.87	7229
3	Jack Screws 4/40 x .250" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)	7229-5K-ND*	.41	.36	.33	7229-5
3	Jack Screws 4/40 x .312" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)	7231K-ND	.66	.58	.54	7231
3	Jack Screws 4/40 x .312" (10 pcs. = 4 flat washers, 2 lock washers, 2 nuts, 2 jack screws)	7231-5K-ND*	.33	.29	.27	7231-5
3	Jack Screws 4/40 x .625" (10 pcs. = 4 flat washes, 2 lock washers, 2 nuts, 2 jack screws)	7233K-ND	1.45	1.27	1.18	7233
3	Jack Screws 4/40 x .625" (10 pcs. = 4 flat washes, 2 lock washers, 2 nuts, 2 jack screws)	7233-5K-ND*	.73	.64	.59	7233-5
3	Sems jack screw .285" L 4-40 thread, (1 pkg. = 2 screws) 2 pc. required per connector	7235K-ND	.65	.58	.54	7235
4	"U" Clip Set (4 pieces = 2 screws and 2 clips)	2062K-ND	.79	.70	.65	2062
5	Saddle Washer Set (4 pieces = 2 screws and 2 clips)	2063K-ND	.89	.78	.73	2063
6	4/40 x .250" Bow Tie Clip Set (4 pieces = 2 screws and 2 clips)	2060K-ND	.99	.87	.81	2060
6	4/40 x .562" Bow Tie Clip Set (4 pieces = 2 Screws and 2 clips)	2061K-ND	1.09	.96	.89	2061

* Clear Chromate

Fig. 1

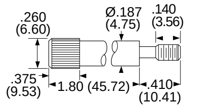

Fig. 2

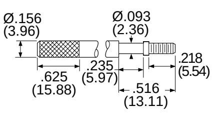

Fig. 3

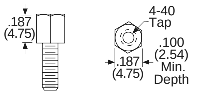

Fig. 4

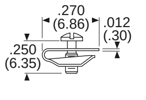

Fig. 5

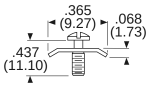

Fig. 6

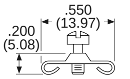

tyco
Electronics
AMP

AMPLIMITE®
D-Sub Connectors

All connectors are preloaded with size 20 DF posted contacts; plugs with pin contacts and receptacles with socket contacts.

Steel Tin Plated Shell HD-20 Series (Fig. 1): • Contact Mating Area Plating: 30µ gold • Eyelets: Brass, Tin Plated • Threaded Inserts: Zinc • Female Screwlock: Zinc • Boardlocks: Copper Alloy, Tin-Lead Plated • Pin Contacts: Brass

Zinc Plated Shell HDP-20 Series (Fig. 2): • Contact Mating Area Plating: Gold Flash • Grounding Indents: Without • Recommended PCB Thickness: .062 (1.57mm)

Steel Tin Plated Shell HD-20 Series (Fig. 2): • Contact Mating Area Plating: 30µ gold • Grounding Indents: On Male Plug • Recommended PCB Thickness: .093 (2.36mm)

Fig. 1

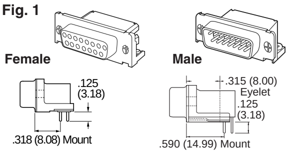

Fig. 2

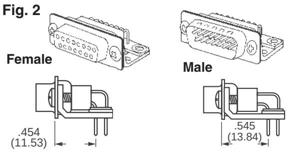

Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Threaded Inserts

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32072-ND*§	3.33	2.78	5747250-4
	9	Female	A32075-ND*§	2.89	2.41	5745781-4
	9	Male	A32088-ND*§	5.79	4.83	5747250-3
	9	Female	A32106-ND*§	3.53	2.95	5745781-3
	15	Male	A32073-ND*§	7.65	6.38	5747236-4
	15	Female	A32076-ND*§	3.53	2.95	5745782-4
	25	Male	A32074-ND*§	5.93	4.95	5747238-4
	25	Female	A2102-ND*	4.47	3.73	745783-4
	25	Female	A32077-ND*§	4.18	3.49	5745783-4
	25	Female	A32111-ND‡§	6.69	5.58	5745783-3
	37	Male	A2099-ND*	16.29	13.58	747252-4
	37	Male	A32162-ND*§	15.18	12.65	5747252-4
	37	Female	A32078-ND*§	6.42	5.35	5745784-4

Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Standard Mounting Holes

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A32105-ND*§	6.90	5.75	5745781-2
	15	Male	A32086-ND*§	6.12	5.10	5747236-2
	15	Female	A23294-ND*	8.94	7.45	745782-2
	15	Female	A32108-ND*§	8.13	6.78	5745782-2
	25	Male	A32087-ND*§	5.67	4.73	5747238-2
	25	Female	A32110-ND*§	9.69	8.08	5745783-2

Steel, Tin Plated Shell, .318" (8.08mm) Mount, without Boardlocks, with Fixed Female Screwlocks

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
	9	Male	A32089-ND*§	6.60	5.50	5747250-6
	9	Female	A32107-ND‡§	6.51	5.43	5745781-6
	15	Female	A23295-ND*	8.04	6.70	745782-6
	15	Female	A32109-ND*§	7.56	6.30	5745782-6
	25	Female	A32113-ND*§	8.88	7.40	5745783-6
	25	Female	A32112-ND‡§	3.40	2.84	5745783-5
	37	Female	A23300-ND*	10.98	9.15	745784-6
	37	Female	A32114-ND*§	9.96	8.30	5745784-6

Steel, Tin Plated Shell, .318" (8.08mm) Mount with Boardlocks, with Standard Mounting Holes

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A23275-ND*	7.05	5.88	747840-2
	9	Male	A32090-ND*§	6.60	5.50	5747840-2
	9	Female	A32115-ND*§	2.57	2.15	5747844-2
	25	Male	A23283-ND*	9.87	8.23	747842-2
	25	Male	A32098-ND*§	9.00	7.50	5747842-2
	25	Female	A32124-ND*§	4.82	4.02	5747846-2

Steel, Tin Plated Shell, .318" (8.08mm) Mount, with Boardlocks, with Threaded Inserts

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32092-ND*§	2.18	1.82	5747840-4
	9	Female	A32117-ND*§	2.57	2.15	5747844-4
	9	Male	A32091-ND‡§	2.71	2.26	5747840-3
	9	Female	A32116-ND‡§	2.70	2.25	5747844-3
	15	Male	A32096-ND*§	2.83	2.36	5747841-4
	15	Female	A32121-ND*§	2.58	2.16	5747845-4
	15	Male	A32095-ND‡§	6.69	5.58	5747841-3
	15	Female	A32120-ND‡§	2.12	1.77	5747845-3
	25	Male	A32100-ND*§	4.94	4.12	5747842-4
	25	Female	A32126-ND*§	3.95	3.30	5747846-4
	25	Male	A23284-ND‡	7.89	6.58	747842-3
	25	Male	A32099-ND‡§	7.23	6.03	5747842-3
	25	Female	A32125-ND‡§	3.53	2.95	5747846-3
	37	Male	A32103-ND*§	4.50	3.75	5747843-4
	37	Female	A32129-ND*§	6.42	5.35	5747847-4

Steel, Tin Plated Shell, .318" (8.08mm) Mount, with Boardlocks, with Fixed Female Screwlocks

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32094-ND*§	3.09	2.58	5747840-6
	9	Female	A32119-ND*§	2.57	2.15	5747844-6
	9	Male	A32093-ND‡§	6.18	5.15	5747840-5
	9	Female	A32118-ND‡§	2.70	2.25	5747844-5
	15	Male	A32097-ND*§	2.83	2.36	5747841-6
	15	Female	A23309-ND*	8.67	7.23	747845-6
1	15	Female	A32123-ND*§	7.92	6.60	5747845-6
	15	Female	A23308-ND‡	7.05	5.88	747845-5
	15	Female	A32122-ND‡§	6.60	5.50	5747845-5
	25	Male	A32102-ND*§	9.45	7.88	5747842-6
	25	Female	A23314-ND*	5.01	4.18	747846-6
	25	Female	A32128-ND*§	4.54	3.79	5747846-6
	25	Male	A23286-ND‡	7.39	6.17	747842-5
	25	Male	A32101-ND‡§	7.23	6.03	5747842-5
	25	Female	A23313-ND‡	3.50	2.92	747846-5
	25	Female	A32127-ND‡§	3.27	2.73	5747846-5
	37	Male	A23290-ND*	14.64	12.20	747843-6
	37	Male	A32104-ND*§	13.65	11.38	5747843-6
	37	Female	A23316-ND*	6.87	5.73	747847-6
	37	Female	A32130-ND*§	6.42	5.35	5747847-6

All-Plastic .318" (8.08mm) Mount, with Boardlocks, with Threaded Inserts

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	25	Female	A23342-ND*	9.48	7.90	748901-1

All-Plastic .318" (8.08mm) Mount, with Boardlocks, with Fixed Female Screwlocks

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23343-ND*	9.57	7.98	748979-1

All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Threaded Inserts

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23338-ND*	6.36	5.30	745394-2
	25		A32131-ND*§	8.19	6.83	5745392-2

All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Fixed Female Screwlocks

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23339-ND*	7.14	5.95	745395-2
	15		A23340-ND*	8.04	6.70	745396-2
	25		A23341-ND*	20.16	16.80	745397-2
	25		A32132-ND*§	9.66	8.05	5745397-2

All-Plastic .318" (8.08mm) Mount, without Boardlocks, with Standard Mounting Holes

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23334-ND‡	5.85	4.88	745131-1
	25		A23335-ND*	13.08	10.90	745132-2

Steel, Tin Plated .590" (14.99mm) Mount, without Boardlocks, with Threaded Inserts

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32079-ND*§	11.25	9.38	5745990-4
	9	Female	A32083-ND*§	16.56	13.80	5745988-4
	9	Male	A32133-ND‡§	13.92	11.60	5745990-3
	15	Female	A2109-ND*	20.73	17.28	745984-4
	15	Female	A32084-ND*§	18.99	15.83	5745984-4
	25	Male	A2106-ND*	21.93	18.28	745994-4
	25	Male	A32081-ND*§	20.13	16.78	5745994-4
	25	Female	A23349-ND‡	28.32	23.60	745992-3
	25	Female	A32137-ND‡§	17.97	14.98	5745992-3
	37	Female	A32085-ND*§	25.62	21.35	5745996-4

Steel, Tin Plated .590" (14.99mm) Mount, with Boardlocks, with Threaded Inserts

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A32134-ND*§	8.88	7.40	5747832-4
	9	Female	A23351-ND*	8.16	6.80	747836-4
	9	Female	A32138-ND*§	7.62	6.35	5747836-4
	9	Male	A23345-ND‡	15.90	13.25	747832-3
	15	Male	A32080-ND*§	8.85	7.38	5747833-4
	25	Male	A32136-ND*§	5.34	4.45	5747834-4
	25	Female	A32141-ND*§	4.56	3.80	5747838-4
	25	Female	A23353-ND‡	28.92	24.10	747838-3
	25	Female	A32140-ND‡§	18.66	15.55	5747838-3
	37	Male	A2107-ND*	10.95	9.13	747835-4
	37	Male	A32082-ND*§	10.05	8.38	5747835-4

Steel, Tin Plated .590" (14.99mm) Mount, with Boardlocks, with Fixed Female Screwlocks

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A23347-ND*	19.17	15.98	747832-6
	9	Male	A32135-ND*§	17.55	14.63	5747832-6
	9	Female	A23352-ND*	8.04	6.70	747836-6
	9	Female	A32139-ND*§	7.47	6.23	5747836-6
	25	Female	A23355-ND*	22.71	18.93	747838-6

All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Threaded Inserts

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Male	A23375-ND*	6.36	5.30	747467-4
	9	Female	A23359-ND*	7.29	6.08	747459-4
	9	Female	A23358-ND‡	7.14	5.95	747459-3
	15	Female	A23371-ND‡	6.48	5.40	747460-3
	25	Male	A23381-ND*	10.74	8.95	748873-1
	25	Female	A23366-ND‡	7.08	5.90	747461-3

All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Fixed Female Screwlocks

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23370-ND*	7.32	6.10	747459-6
	15	Male	A23382-ND*	9.81	8.18	748952-1
	25	Female	A23368-ND*	8.73	7.28	747461-6
	25	Female	A23367-ND‡	8.16	6.80	747461-5

All-Plastic .590" (14.99mm) Mount, without Boardlocks, with Standard Mounting Holes

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	9	Female	A23357-ND*	5.46	4.55	747459-2
	9	Male	A23373-ND‡	5.67	4.73	747467-1
	15	Male	A23376-ND*	6.18	5.15	747468-2
	25	Male	A23379-ND*	7.95	6.63	748826-1
	25	Female	A23365-ND*	6.57	5.48	747461-2
	25	Female	A23364-ND‡	6.15	5.13	747461-1
	37	Male	A23378-ND*	9.69	8.08	747470-2
	37	Female	A23369-ND*	9.42	7.85	747462-2

Steel, Tin Plated Shell, .454" (11.53mm) Mount

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	9	Male	A32142-ND§	19.26	16.05	5745434-8
	25	Female	A23391-ND	29.70	24.75	745440-4
	25	Female	A32144-ND§	27.75	23.13	5745440-4
	37	Female	A23392-ND	34.80	29.00	745441-4
	37	Female	A32145-ND§	32.55	27.13	5745441-4
	37	Male	A23388-ND‡	32.31	26.93	745437-3
	37	Male	A32143-ND‡§	30.21	25.18	5745437-3

Zinc Plated Shell, .545" (13.84mm) Mount

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	9	Male	A32064-ND§	15.39	12.83	5205865-1
	9	Female	A1021-ND	17.25	14.38	205866-1
	9	Female	A32065-ND§	16.14	13.45	5205866-1
	15	Female	A32067-ND§	21.87	18.23	5205868-1
	25	Male	A1024-ND*	25.53	21.28	205857-1
	25	Male	A32068-ND*§	23.85	19.88	5205857-1
	25	Female	A1025-ND†	24.00	20.00	205858-1
	25	Female	A32069-ND†§	22.41	18.68	5205858-1
	25	Female	A29094-ND‡	28.26	23.55	205858-2
	37	Male	A1026-ND†	26.43	22.03	205859-1
	37	Male	A32070-ND†§	24.69	20.58	5205859-1
	37	Female	A1027-ND	33.09	27.58	205860-1
	37	Female	A32071-ND§	30.93	25.78	5205860-1

Steel, Tin Plated Shell, .545" (13.84mm) Mount, with Standard Mounting Screws

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	15	Male	A32066-ND§	18.66	15.55	5745352-4
	15	Female	A32151-ND§	19.62	16.35	5745113-2
	25	Female	A32152-ND§	22.95	19.13	5745114-2
	37	Male	A23394-ND	34.23	28.53	745354-4
	37	Male	A32146-ND§	31.98	26.65	5745354-4
	37	Female	A32153-ND§	61.11	50.93	5745115-2
	50	Male	A32147-ND§	33.96	28.30	5745355-4
	50	Female	A32155-ND§	36.48	30.40	5745116-2
	50	Female	A32154-ND§	39.21	32.68	5745116-1

Steel, Tin Plated Shell, .545" (13.84mm) Mount, with Female Screwlocks

Fig.	No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
2	9	Male	A23397-ND	32.46	27.05	747197-4
	9	Male	A32149-ND§	30.33	25.28	5747197-4
	9	Female	A23406-ND	25.65	21.38	747020-2
	9	Female	A32161-ND§	19.74	16.45	5747020-1
	15	Female	A32157-ND§	40.47	33.73	5747021-2
	25	Male	A23396-ND	28.11	23.43	747022-2
	25	Male	A32148-ND§	26.28	21.90	5747022-2
	25	Female	A23405-ND	27.18	22.65	745536-2
	25	Female	A32156-ND§	25.38	21.15	5745536-2
	50	Male	A23398-ND	39.33	32.78	747497-4
	50	Male	A32150-ND§	36.75	30.63	5747497-4
	50	Female	A23409-ND	40.65	33.88	747193-2
	50	Female	A32159-ND§	37.98	31.65	5747193-2
	50	Female	A23408-ND‡	38.07	31.73	747193-1
	50	Female	A32158-ND‡§	35.58	29.65	5747193-1

* 30µ Gold † Tin shell ‡ Gold flash on mating end § ***RoHS Compliant***

tyco Electronics AMP

AMPLIMITE®

D-Sub Connectors

HDJ-20 All Plastic Jacketed Cable Connector

Use with HDP-20 Crimp Snap-In Contacts (sold separately)

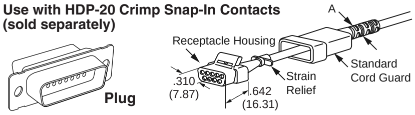

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
9	Receptacle	A23471-ND*	.87	.73	207752-3
	Plug	A23472-ND	2.94	2.45	745018-1
	Steel Stain Relief	A23464-ND	.18	.15	61831-1

No. of Pos.	Dim. Inch (mm) A	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
HDJ-20 Standard Cord Guards - Black Thermoplastic					
9	.234 (5.94)	A23465-ND	.94	.79	207753-1
HDJ-20 Squeeze-to-Release Cord Guards - Black Thermoplastic					
9	.265 (6.73)	A23467-ND	1.41	1.18	745002-2

* 94V-0 rated thermoplastic black

Plug Assemblies

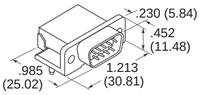

HDJ-20 All-Plastic Plug Assemblies with Right-Angle Posted Contacts

Material and Finish: Housing and Post Spacer: Black thermoplastic, 94V-2 rated **Pin Contacts (Posted):** Brass, plated as follows: **A:** Gold flash on mating end, tin-lead on solder posts, entire contact nickel underplated

No. of Positions	Plating Type	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
9	A	A23474-ND	8.52	7.10	745001-3

HD-20 Front Metal-Shell Straight Posted with ACTION PIN

Material and Finish: Front Shell: Steel, tin plated **Housing:** 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Zinc **Action Pin Contacts:** Copper alloy duplex plated **Plating (except 749892-1):** 30µ gold on mating end, tin-lead on Action Pin post surface, with entire contact 50µ (minimum) nickel underplated; **Plating for 749892-1 only:** Gold flash on mating end, tin-lead on Action Pin post surface, with entire contact 50µ (minimum) nickel underplated

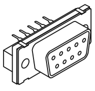
Female w/Standard Mtg. Holes

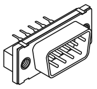
Male w/Threaded Insert

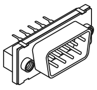
Male w/Fixed Female Screwlock

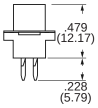

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With Standard Mounting Holes					
9	Female	A23116-ND	6.60	5.50	747089-2
	Female	A32030-ND§	6.60	5.50	5747089-2
15	Female	A23119-ND	14.49	12.08	747140-2
	Female	A32041-ND§	9.54	7.95	5747140-2
37	Female	A23125-ND	21.21	17.68	747713-2
	Female	A32046-ND§	16.95	14.13	5747713-2
50	Female	A32044-ND§	30.63	25.53	5747143-2
With Threaded Inserts					
9	Female	A32031-ND§	5.79	4.83	5747090-2
	Male	A32052-ND§	14.28	11.90	5786830-1
15	Female	A23120-ND	8.79	7.33	747141-2
	Female	A32042-ND§	8.76	7.30	5747141-2
25	Female	A32040-ND§	8.58	7.15	5745925-2
	Male	A23128-ND	29.55	24.63	748146-4
	Male	A32049-ND§	29.55	24.63	5748146-4
37	Female	A23126-ND	15.48	12.90	747714-2
	Female	A32047-ND§	15.48	12.90	5747714-2
	Male	A32051-ND§	39.21	32.68	5786534-1
50	Female	A23123-ND	17.82	14.85	747144-2
	Female	A32033-ND§	17.85	14.88	5747144-2
	Male	A23130-ND	69.57	57.98	749892-1
	Male	A32034-ND§	67.53	56.28	5749892-1
With Fixed Female Screwlocks					
9	Female	A32032-ND§	8.55	7.13	5747091-2
15	Female	A32043-ND§	9.45	7.88	5747142-2
	Male	A32053-ND§	14.82	12.35	5787177-1
25	Female	A32029-ND§	9.18	7.65	5745928-2
	Male	A23129-ND	16.95	14.13	748146-6
	Male	A32050-ND§	13.56	11.30	5748146-6
37	Female	A32048-ND§	15.18	12.65	5747715-2
50	Female	A23124-ND	19.23	16.03	747145-2
	Female	A32045-ND§	19.23	16.03	5747145-2

§ *RoHS Compliant*

HD-20 All-Plastic Straight Posted with ACTION PIN

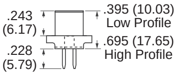

No. of Pos.	Sex	Profile	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With Fixed Female Screwlocks						
9	Female	Low	A23136-ND	7.71	6.43	745454-2
			A32054-ND§	7.71	6.43	5745454-2
25	Female	Low	A23137-ND	14.31	11.93	745458-2
			A32055-ND§	12.51	10.43	5745458-2
37	Female	Low	A23138-ND	15.51	12.93	745459-2
			A32056-ND§	15.54	12.95	5745459-2

§ *RoHS Compliant*

HD-20 All-Plastic Straight Posted

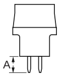

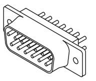

Material and Finish: Housing: 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Brass, nickel plated **Pin Contacts:** Brass plated, tin-lead on termination end, with entire contact 50µ (minimum) nickel underplated

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With Standard Mounting Holes						
9	Male	.125 (3.18)	A23218-ND*	4.56	3.80	208006-2
	Female	.125 (3.18)	A23238-ND*	5.07	4.23	207826-4
	Male	.125 (3.18)	A23217-ND‡	4.32	3.60	208006-1
	Female	.125 (3.18)	A32060-ND‡§	4.14	3.45	5207826-3
15	Male	.125 (3.18)	A23220-ND*	5.55	4.63	208007-2
	Female	.125 (3.18)	A23240-ND*	6.03	5.03	207827-4
	Female	.125 (3.18)	A32061-ND*§	5.64	4.70	5207827-4
25	Male	.125 (3.18)	A23222-ND*	7.29	6.08	208008-2
	Female	.125 (3.18)	A23243-ND*	8.19	6.83	207828-4
	Male	.125 (3.18)	A23221-ND‡	6.36	5.30	208008-1
	Female	.125 (3.18)	A23242-ND‡	7.02	5.85	207828-3
37	Female	.125 (3.18)	A23245-ND*	13.17	10.98	207829-4
	Male	.125 (3.18)	A23223-ND‡	9.33	7.78	208009-1
50	Male	.125 (3.18)	A23225-ND*	15.36	12.80	208010-2
With Threaded Inserts						
9	Female	.125 (3.18)	A23248-ND*	6.48	5.40	207841-4
	Female	.125 (3.18)	A23247-ND‡	6.15	5.13	207841-3
15	Female	.125 (3.18)	A23250-ND*	9.12	7.60	745057-4
25	Male	.125 (3.18)	A23228-ND*	9.42	7.85	745053-2
	Female	.125 (3.18)	A232 52-ND*	11.37	9.48	745058-4
	Female	.125 (3.18)	A23251-ND‡	8.91	7.43	745058-3
With Fixed Female Screwlocks						
9	Male	.125 (3.18)	A23230-ND*	6.60	5.50	745071-2
	Female	.125 (3.18)	A23255-ND*	6.03	5.03	745076-4
	Male	.125 (3.18)	A23229-ND‡	6.93	5.78	745071-1
	Female	.125 (3.18)	A23254-ND‡	5.67	4.73	745076-3
	Male	.170 (4.32)	A23231-ND*	7.08	5.90	745071-4
	Female	.170 (4.32)	A32062-ND*§	6.81	5.68	5745076-6
15	Female	.125 (3.18)	A23258-ND*	8.88	7.40	745077-4
	Female	.125 (3.18)	A23257-ND‡	8.01	6.68	745077-3
	Male	.170 (4.32)	A23232-ND*	9.51	7.93	745072-4
25	Male	.125 (3.18)	A23234-ND*	9.24	7.70	745073-2
	Female	.125 (3.18)	A23261-ND*	9.90	8.25	745078-4
	Male	.125 (3.18)	A23233-ND‡	9.24	7.70	745073-1
	Female	.125 (3.18)	A23260-ND‡	8.55	7.13	745078-3
	Female	.170 (4.32)	A23264-ND*	14.37	11.98	745078-6
	Female	.170 (4.32)	A32063-ND*§	9.63	8.03	5745078-6
	Female	.170 (4.32)	A23263-ND‡	11.22	9.35	745078-5
37	Female	.125 (3.18)	A23265-ND*	13.83	11.53	745079-4
	Male	.170 (4.32)	A23236-ND*	17.55	14.63	745074-4
	Female	.170 (4.32)	A23266-ND*	15.90	13.25	745079-6

* 30µ gold on mating end ‡ Gold flash on mating end
§ *RoHS Compliant*

HD-20 Full Metal-Shell Straight Posted

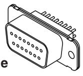
Female

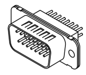
Male

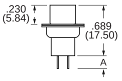

Material and Finish: Shell: Steel, tin plated **Insert:** 94V-0 rated thermoplastic, black **Pin Contacts:** Brass plated, tin-lead on termination end, with entire contact 50µ (minimum) nickel underplated

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Without Grounding Indents						
9	Male	.125 (3.18)	A23139-ND‡	4.83	4.03	745182-2
25	Male	.125 (3.18)	A23140-ND‡	8.10	6.75	745186-2
With Grounding Indents						
9	Male	.125 (3.18)	A23141-ND*	5.73	4.78	745410-1
	Male	.188 (4.78)	A23142-ND*	7.32	6.10	745410-7
25	Male	.125 (3.18)	A23143-ND*	6.63	5.53	745412-1
	Male	.188 (4.78)	A23144-ND*	10.20	8.50	745412-7
37	Male	.125 (3.18)	A23145-ND*	16.11	13.43	745413-1
50	Male	.125 (3.18)	A23146-ND*	19.83	16.53	745414-1
	Male	.188 (4.78)	A23147-ND*	17.67	14.73	745414-7
With .120" (3.05mm) Mounting Holes						
9	Female	.125 (3.18)	A23149-ND‡	5.58	4.65	745183-2
	Female	.188 (4.78)	A23150-ND*	6.30	5.25	745183-7
15	Female	.188 (4.78)	A23148-ND*	8.49	7.08	745185-7
25	Female	.125 (3.18)	A23151-ND*	9.72	8.10	745187-1
	Female	.188 (4.78)	A23152-ND*	10.47	8.73	745187-7
	Female	.188 (4.78)	A23153-ND‡	8.94	7.45	745187-8
37	Female	.125 (3.18)	A23154-ND*	13.62	11.35	745189-1
	Female	.188 (4.78)	A23155-ND*	15.27	12.73	745189-7
50	Female	.125 (3.18)	A23156-ND*	18.18	15.15	745191-1
	Female	.188 (4.78)	A23157-ND*	18.24	15.20	745191-7
With Clinch Nuts						
9	Female	.125 (3.18)	A23164-ND*	8.04	6.70	747190-2
	Female	.125 (3.18)	A23163-ND‡	7.98	6.65	747190-1
	Female	.188 (4.78)	A23165-ND*	9.72	8.10	747190-4
15	Female	.125 (3.18)	A23158-ND*	9.87	8.23	745820-1
	Female	.125 (3.18)	A23159-ND‡	9.42	7.85	745820-2
25	Female	.125 (3.18)	A23161-ND*	11.19	9.33	745886-1
	Female	.125 (3.18)	A23162-ND‡	11.52	9.60	745886-2
37	Female	.125 (3.18)	A23167-ND*	16.14	13.45	747315-1

* 30µ gold on mating end ‡ Gold flash on mating end

HD-20 Front Metal-Shell Straight Posted

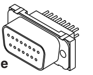
Female

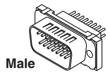
Male

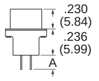

Material and Finish: Shell: Steel, tin plated **Housing:** 94V-0 rated thermoplastic, black **Threaded Inserts:** Brass, unplated **Female Screwlocks:** Zinc **Pin Contacts:** Brass plated, tin-lead on termination end, with entire contact 50µ (minimum) nickel underplated

No. of Pos.	Sex	Dim. A In. (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
With Standard Mounting Holes						
9	Male	.125 (3.18)	A23183-ND*	4.23	3.53	747871-2
	Female	.125 (3.18)	A23206-ND*	8.58	7.15	747150-2
	Female	.125 (3.18)	A32038-ND*§	4.11	3.43	5747150-2
	Female	.170 (4.32)	A23207-ND*	10.38	8.65	747150-4
15	Female	.125 (3.18)	A23211-ND*	7.17	5.98	747299-2
	Male	.170 (4.32)	A23185-ND*	5.10	4.25	747872-4
25	Male	.125 (3.18)	A23177-ND*	6.60	5.50	745968-2
	Female	.125 (3.18)	A23203-ND*	7.17	5.98	745967-2
	Male	.170 (4.32)	A23178-ND*	7.83	6.53	745968-4
37	Male	.125 (3.18)	A23181-ND*	11.01	9.18	747375-2
	Female	.125 (3.18)	A32039-ND*§	11.79	9.83	5747301-2
With 4-40 Threaded Inserts						
9	Male	.125 (3.18)	A32035-ND*§	6.60	5.50	5747871-8
	Female	.125 (3.18)	A23209-ND*	6.18	5.15	747150-8
	Female	.125 (3.18)	A23208-ND‡	6.00	5.00	747150-7
	Female	.170 (4.32)	A23210-ND‡	5.22	4.35	747150-9
15	Male	.125 (3.18)	A23186-ND*	6.54	5.45	747872-8
	Female	.125 (3.18)	A23213-ND*	5.91	4.93	747299-8
	Female	.125 (3.18)	A23212-ND‡	7.50	6.25	747299-7
25	Male	.125 (3.18)	A23180-ND*	8.07	6.73	745968-8
	Female	.125 (3.18)	A23205-ND*	8.40	7.00	745967-8
	Male	.125 (3.18)	A23179-ND‡	7.23	6.03	745968-7
	Female	.125 (3.18)	A23204-ND‡	7.02	5.85	745967-7
	Female	.170 (4.32)	A23188-ND*	9.39	7.83	1-745967-0
37	Male	.125 (3.18)	A23182-ND*	13.95	11.63	747375-8
	Female	.125 (3.18)	A23216-ND*	12.57	10.48	747301-8
	Female	.125 (3.18)	A23215-ND‡	11.22	9.35	747301-7
With Retention 4-40 Inserts (for .062" [1.58mm] PCB)						
9	Male	.125 (3.18)	A32058-ND*§	5.70	4.75	2-5748003-0
	Female	.125 (3.18)	A32036-ND*§	6.18	5.15	2-5747706-0
15	Female	.125 (3.18)	A23200-ND*	7.17	5.98	2-747707-0
25	Male	.125 (3.18)	A23175-ND*	6.84	5.70	2-747704-0
	Female	.125 (3.18)	A32037-ND*§	7.41	6.18	2-5747708-0
37	Female	.125 (3.18)	A23202-ND*	12.81	10.68	2-747709-0
With Fixed Female Screwlocks						
9	Male	.125 (3.18)	A32057-ND*§	7.20	6.00	1-5747871-4
	Female	.125 (3.18)	A23193-ND*	8.04	6.70	1-747150-4
	Female	.125 (3.18)	A32059-ND*§	6.12	5.10	1-5747150-4
	Male	.125 (3.18)	A23171-ND‡	6.09	5.08	1-747871-3
	Female	.125 (3.18)	A23192-ND‡	5.82	4.85	1-747150-3
	Female	.170 (4.32)	A23194-ND*	7.53	6.28	1-747150-6
	Male	.170 (4.32)	A23173-ND*	6.36	5.30	1-747871-6
15	Female	.125 (3.18)	A23196-ND*	6.33	5.28	1-747299-4
	Male	.170 (4.32)	A23174-ND*	7.23	6.03	1-747872-6
	Female	.170 (4.32)	A23197-ND*	7.29	6.08	1-747299-6
25	Male	.125 (3.18)	A23169-ND*	8.73	7.28	1-745968-4
	Female	.125 (3.18)	A23189-ND*	6.93	5.78	1-745967-4
	Male	.125 (3.18)	A23168-ND‡	8.04	6.70	1-745968-3
	Male	.170 (4.32)	A23170-ND*	8.91	7.43	1-745968-6
	Female	.170 (4.32)	A23191-ND*	8.13	6.78	1-745967-6
	Female	.170 (4.32)	A23190-ND‡	9.87	8.23	1-745967-5
37	Female	.170 (4.32)	A23198-ND*	19.08	15.90	1-747301-6
With Retention 4-40 Screwlocks (for .062" [1.58mm] PCB)						
25	Male	.125 (3.18)	A23187-ND*	10.62	8.85	748027-1

* 30µ gold on mating end ‡ Gold flash on mating end
§ *RoHS Compliant*

tyco Electronics AMP

AMPLIMITE®

D-Sub Connectors

HDP-20 Zinc and Tin Plated Metal Shell

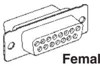

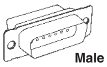

Crimp Type **Pins and Sockets Sold Separately**

Material and Finish: Shell: Steel, zinc or tin plated **Insert:** 94V-0 rated thermoplastic, black **Mounting Holes: Standard:** .120" (3.05mm) Diameter **Clinch Nut:** 4-40 threads with self-locking feature **Mounting Method: 1:** Standard; **2:** Clinch Nut

No. of Pos.	Sex	Mtg. Meth.	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Zinc Plated Shell						
9	Male	1	A31886-ND§	1.03	.86	205204-9
9	Female	1	A1001-ND	1.26	1.05	205203-1

No. of Pos.	Sex	Mtg. Meth.	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
15	Male	1	A1002-ND	1.46	1.23	205206-1
15	Female	1	A1003-ND	1.39	1.16	205205-1
25	Male	1	A1004-ND	1.42	1.18	205208-1
25	Female	1	A1005-ND	1.21	1.01	205207-1
37	Male	1	A1006-ND	2.19	1.83	205210-1
37	Female	1	A1007-ND	2.19	1.83	205209-1
50	Male	1	A2037-ND	2.64	2.20	205212-1
50	Female	1	A2041-ND	2.64	2.20	205211-1
Tin Plated Shell Without Grounding Indents						
9	Male	1	A31887-ND§	1.34	1.12	205204-8
9	Female	1	A1031-ND	.85	.72	205203-3
9	Female	2	A31921-ND§	4.41	3.68	1658643-1
15	Male	1	A31888-ND§	1.77	1.48	205206-8
15	Female	1	A1033-ND	.92	.77	205205-2
15	Female	2	A31922-ND§	4.23	3.53	1658644-1
25	Male	1	A31889-ND§	1.64	1.37	207464-7
25	Female	1	A1035-ND	1.07	.89	207463-1
25	Female	2	A31917-ND§	4.20	3.50	207516-5

No. of Pos.	Sex	Mtg. Meth.	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
37	Male	1	A31890-ND§	2.04	1.70	205210-7
37	Female	1	A1037-ND	1.28	1.07	205209-2
37	Female	2	A23412-ND	6.90	5.75	207661-3
50	Male	1	A2038-ND	5.94	4.95	205212-2
50	Male	1	A31891-ND§	5.55	4.63	1658641-1
50	Female	1	A31893-ND§	2.49	2.08	1658640-1
Tin Plated Shell With Grounding Indents						
9	Male	1	A1038-ND	.90	.75	205204-4
9	Male	2	A31920-ND§	4.11	3.43	1658642-1
15	Male	1	A1039-ND	1.07	.89	205206-3
25	Male	1	A1040-ND	.94	.79	207464-2
25	Male	2	A31918-ND§	5.52	4.60	5745036-2
37	Male	2	A31919-ND§	5.55	4.63	745135-4
37	Male	1	A1041-ND	1.80	1.50	205210-3
50	Male	1	A31892-ND§	1.88	1.57	1658641-2

§ RoHS Compliant

tyco Electronics AMP

HDP-20 Pins and Sockets

Crimp Type Pin Dia.: .040" (1.02mm)

Material: Pin: Brass – Phosphor bronze per QQ-B-750

Plated: A: Select – Gold flash over nickel on entire contact, with additional 30µ gold on mating end; **B:** Duplex – 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated; **C:** Gold flash over nickel on entire contact; **D:** Duplex – Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated **E:** Duplex – 30µ gold on mating end, tin on termination end, with entire contact nickel underplated; **F:** Duplex – Gold flash on mating end, tin on termination end, with entire contact nickel underplated

Without Insulation Support

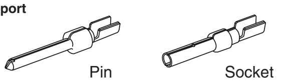

With Insulation Support

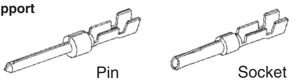

Desc.	AWG	Ins. Dia. In. (mm)	Cont. Fin.	Digi-Key Part No.	Loose Piece Price Each 10	Loose Piece Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Digi-Key Part No.	Strip T&R Pricing / 10,000	AMP Part No.
With Insulation Support													
Pin	28-24	.040 (1.02)	A	A1630-ND§	.22	.15	66507-9	A1630CT-ND§	12.89	53.69	A1630TR-ND§	57.99/M	66507-3
Socket	28-24	.040 (1.02)	A	A1632-ND§	.24	.17	66505-9	A1632CT-ND§	11.71	48.80	A1632TR-ND§	52.71/M	66505-3
Pin	28-24	.040 (1.02)	B	A23039-ND	—	—	—	A23039CT-ND	8.29	34.54	A23039TR-ND	38.60/M	3-66507-0
Pin	28-24	.040 (1.02)	E	—	—	—	—	A31909CT-ND§	8.02	33.41	A31909TR-ND§	36.09/M	1658540-4
Socket	28-24	.040 (1.02)	B	—	—	—	—	A23024CT-ND	10.85	45.20	A23024TR-ND	56.13/M	6-66505-0
Socket	28-24	.040 (1.02)	E	—	—	—	—	A31906CT-ND§	10.49	43.73	A31906TR-ND§	52.47/M	1658538-2
Pin	28-24	.040 (1.02)	C	A23004-ND§	.20	.14	1-66507-0	A23004CT-ND§	10.70	44.60	A23004TR-ND§	48.17/M	66507-4
Socket	28-24	.040 (1.02)	C	A23003-ND§	.22	.16	1-66505-0	A23003CT-ND§	14.64	61.01	A23003TR-ND§	65.90/M	66505-4
Pin	28-24	.040 (1.02)	D	—	—	—	—	A25000CT-ND	6.94	28.91	—	—	3-66507-1
Pin	28-24	.040 (1.02)	F	A31904-ND§	.19	.15	1658540-2	A31904CT-ND§	6.71	27.96	A31904TR-ND§	30.20/M	1658540-1
Pin	28-24	.060 (1.52)	A	—	—	—	—	A23027CT-ND§	8.78	36.60	A23027TR-ND§	39.53/M	66682-2
Socket	28-24	.060 (1.52)	A	A23031-ND§	.24	.17	66683-4	A23031CT-ND§	16.59	69.14	A23031TR-ND§	74.67/M	66683-2
Pin	28-24	.060 (1.52)	B	—	—	—	—	A23029CT-ND	13.85	57.73	—	—	66682-9
Pin	28-24	.060 (1.52)	E	—	—	—	—	A31908CT-ND§	13.40	55.84	A31908TR-ND§	60.31/M	5066682-9
Socket	28-24	.060 (1.52)	B	—	—	—	—	A23005CT-ND	20.17	84.04	A23005TR-ND	93.94/M	1-66683-0
Pin	28-24	.060 (1.52)	D	—	—	—	—	A23028CT-ND	11.93	49.69	A23028TR-ND	61.71/M	66682-6
Pin	28-24	.060 (1.52)	F	—	—	—	—	A31907CT-ND§	11.54	48.06	A31907TR-ND§	51.91/M	5066682-6
Socket	28-24	.060 (1.52)	D	—	—	—	—	A23053CT-ND	14.52	60.49	A23053TR-ND	67.61/M	66683-7
Pin	26-22	.050 (1.27)	A	A24209-ND§	.22	.16	745254-6	A24209CT-ND§	13.71	57.13	A24209TR-ND§	61.70/M	745254-2
Socket	26-22	.050 (1.27)	A	A23722-ND§	.24	.17	745253-6	A23722CT-ND§	19.48	81.18	A23722TR-ND§	87.67/M	745253-2
Pin	26-22	.050 (1.27)	B	—	—	—	—	A23015CT-ND	24.10	100.43	A23015TR-ND	112.26/M	1-745254-4
Pin	26-22	.050 (1.27)	E	A31903-ND§	.23	.19	1658544-1	A31903CT-ND§	23.31	97.14	A31903TR-ND§	104.91/M	1658544-2
Socket	26-22	.050 (1.27)	B	—	—	—	—	A23011CT-ND	18.87	78.64	A23011TR-ND	87.90/M	1-745253-4
Socket	26-22	.050 (1.27)	E	A31902-ND§	.25	.20	1658543-1	A31902CT-ND§	18.26	76.06	A31902TR-ND§	82.15/M	1658543-2
Socket	26-22	.050 (1.27)	C	—	—	—	—	A23036CT-ND§	19.92	83.00	A23036TR-ND§	89.64/M	745253-3
Pin	26-22	.050 (1.27)	D	—	—	—	—	A23013CT-ND	11.93	49.69	—	—	1-745254-1
Pin	26-22	.050 (1.27)	F	—	—	—	—	A31924CT-ND§	11.54	48.06	A31924TR-ND§	51.91/M	1658544-3
Socket	26-22	.050 (1.27)	D	—	—	—	—	A23008CT-ND	20.10	83.75	—	—	1-745253-1
Socket	26-22	.050 (1.27)	F	—	—	—	—	A31901CT-ND§	19.44	81.01	A31901TR-ND§	87.50/M	1658543-3
Pin	24-20	.060 (1.52)	A	A1679-ND§	.20	.18	66506-9	A1679CT-ND§	8.71	36.30	A1679TR-ND§	39.21/M	66506-3
Socket	24-20	.060 (1.52)	A	A1680-ND§	.21	.19	66504-9	A1680CT-ND§	13.47	56.13	A1680TR-ND§	60.62/M	66504-3
Pin	24-20	.060 (1.52)	E	A31910-ND§	.15	.12	1658539-3	A31910CT-ND§	7.72	32.18	A31910TR-ND§	34.75/M	1658539-1
Socket	24-20	.060 (1.52)	B	—	—	—	—	A23023CT-ND	9.11	37.98	—	—	5-66504-9
Socket	24-20	.060 (1.52)	E	A31905-ND§	.17	.14	1658537-4	A31905CT-ND§	8.81	36.73	A31905TR-ND§	39.67/M	1658537-3
Pin	24-20	.060 (1.52)	C	A1008-ND§	.20	.18	1-66506-0	A1008CT-ND§	12.84	53.50	A1008TR-ND§	57.78/M	66506-4
Socket	24-20	.060 (1.52)	C	A1009-ND§	.21	.19	1-66504-0	A1009CT-ND§	8.28	34.49	A1009TR-ND§	37.25/M	66504-4
Pin	24-20	.060 (1.52)	D	—	—	—	—	A23043CT-ND	7.52	31.35	A23043TR-ND	38.94/M	2-66506-5
Pin	24-20	.060 (1.52)	F	A31911-ND§	.13	.10	1658539-4	A31911CT-ND§	7.14	29.74	A31911TR-ND§	32.12/M	1658539-2
Socket	24-20	.060 (1.52)	D	—	—	—	—	A23606CT-ND	8.24	34.35	—	—	5-66504-6

§ RoHS Compliant

Desc.	AWG	Ins. Dia. In. (mm)	Cont. Fin.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Digi-Key Part No.	Strip T&R Pricing / 10,000	AMP Part No.
Without Insulation Support									
Socket	28-24	.068 (1.73)	A	A23055CT-ND§	37.71	157.11	A23055TR-ND§	169.69/M	205311-3
Pin	24-20	.068 (1.73)	A	A23017CT-ND§	16.38	68.24	A23017TR-ND§	73.70/M	205202-2
Socket	24-20	.068 (1.73)	C	A5805CT-ND§	19.60	81.66	A5805TR-ND§	88.20/M	205201-6
Pin	22-18	.068 (1.73)	A	A5802CT-ND§	16.38	68.24	A5802TR-ND§	73.70/M	745229-2
Socket	22-18	.068 (1.73)	A	A5804CT-ND§	14.69	61.20	A5804TR-ND§	66.10/M	745230-2
Pin	22-18	.068 (1.73)	B	A5801CT-ND	13.69	57.05	—	—	1-745229-1
Pin	22-18	.068 (1.73)	E	A31923CT-ND§	13.24	55.18	A31923TR-ND§	59.59/M	1658541-1
Socket	22-18	.068 (1.73)	B	A23007CT-ND	20.35	84.80	A23007TR-ND	94.79/M	1-745230-1
Socket	22-18	.068 (1.73)	E	A31900CT-ND§	19.69	82.03	A31900TR-ND§	88.59/M	1658542-2

§ RoHS Compliant

Description	Digi-Key Part No.	Price Each	AMP Part No.
Crimp Tool for D-Sub Contacts with Die	A9990-ND	145.50	58448-2
Die Set for D-Sub Contacts, use with A9996	A9814-ND	111.00	58448-3
Pro-Crimper II Hand Tool without Die	A9996-ND	66.00	354940-1
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	5.93	91067-2

tyco Electronics AMP

AMPLIMITE®
D-Sub Connectors

HDP-20 Solder Post Pins & Sockets

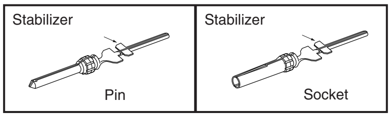

.025" (0.64mm) Square Posted, Snap-In, Precision Formed
Pin Diameter: .040" (1.02mm)

Material: Pin: Brass **Socket:** Phosphor bronze **Plated: A:** Duplex plated 30µ gold on mating end with entire contact 50µ minimum nickel underplated; **B:** Duplex plated gold flash on mating end with entire contact 50µ minimum nickel underplated

Desc.	Cont. Fin.	Post Length*	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Socket	A	.125" (3.18mm)	A31913-ND§	.42	.34	5-745288-5
Pin	A	.427" (10.85mm)	A23058-ND	.37	.26	745287-8
Socket	A	.427" (10.85mm)	A31914-ND§	.31	.25	5-745288-8
Socket	B	.427" (10.85mm)	A23049-ND	.63	.44	745288-6
Pin	A	.651" (16.54mm)	A23059-ND	.51	.36	1-745287-2
Socket	A	.651" (16.54mm)	A23046-ND	.76	.53	1-745288-2
Socket	A	.651" (16.54mm)	A31912-ND§	.54	.44	5-745288-1

* Length of post extending from rear of HDP-20 metal-shell Connector.
§ *RoHS Compliant*

HDP-20 Solder Cup Type Pins & Sockets

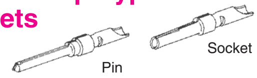

Pin Diameter: .040" (1.02mm)

Material: Pin – Brass per MIL-C-50; Socket – Phosphor bronze per QQ-B-750 **Finish:** Selective gold, 30µ gold over 30µ nickel

Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
Pin, 18 AWG	A1028-ND	.40	.25	66570-3
Socket, 18 AWG	A1029-ND	.32	.29	66569-3
Pin Insertion/Extraction Tool for Snap-In Contacts	A1010-ND	5.93/1		91067-2

HDP-20 Front Connector Pins

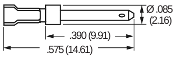

Precision Formed

AWG	Ins. Dia. In. (mm)	Amp Part No.
28-24	.040 (1.02)	1658540-3
24-20	.060 (1.52)	6-66506-2 1658539-5

Material: Brass **Finish:** Duplex plated 10µ minimum gold in the mating area, 30µ min. tin in the termination area, all over 30µ minimum nickel underplating

Digi-Key Part No.	Cut Strip Pricing 100	500	Strip Tape & Reel* Pricing/10,000	AMP Part No.
A23051CT-ND	5.82	24.24	—	6-66506-2
A31915CT-ND§	5.63	23.44	25.32/M	1658539-5
A31916CT-ND§	8.34	34.74	37.52/M	1658540-3

*For Tape and Reel part number, change CT-ND to TR-ND.
§ *RoHS Compliant*

HD-20 Solder Cup

Connector comes complete with pins and sockets.

Accepts 20 AWG or smaller solid or stranded wire.

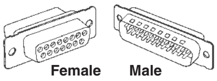

Material and Finish: Shell: Steel, tin or zinc plated **Insert:** 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze; duplex plated with gold flash on mating end, tin-lead on solder cup, with entire contact nickel underplated

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Tin Plated Shell					
9	Male	A31894-ND§	3.00	2.50	747904-9
	Female	A2047-ND	3.24	2.70	747905-2
	Female	A31897-ND§	2.43	2.03	747905-8
15	Male	A2044-ND	4.53	3.78	747908-2
	Male	A31895-ND§	3.39	2.83	747908-9
	Female	A2048-ND	4.65	3.88	747909-2
	Female	A31898-ND§	3.48	2.90	747909-8
25	Male	A2045-ND	4.56	3.80	747912-2
	Male	A31896-ND§	3.42	2.85	747912-8
	Female	A2049-ND	5.70	4.75	747913-2
	Female	A31899-ND§	4.29	3.58	747913-8
37	Male	A2046-ND	5.85	4.88	747916-2
	Female	A2050-ND	7.23	6.03	747917-2
Zinc Plated Shell					
9	Male	A23108-ND	2.04	1.70	747904-4
	Female	A23109-ND	2.76	2.30	747905-4
15	Male	A23110-ND	3.45	2.88	747908-4
25	Male	A23111-ND	3.87	3.23	747912-4
	Female	A23112-ND	5.07	4.23	747913-4
37	Male	A23113-ND	5.85	4.88	747916-4

§ *RoHS Compliant*

HDE-20 IDC Discrete Wire Type, Metal/Plastic Shell

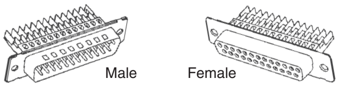

Material and Finish: Metal Shell: Steel, tin plated **Insert:** 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze

Plastic Housing: 94V-0 rated thermoplastic, black **Contacts:** Phosphor bronze

Contact Finish: Duplex plated; **A:** 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated; **B:** Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated

No. of Pos.	Sex	Cont. Fin.	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Metal Shell for 30-26 AWG Wire						
9	Male	A	A23081-ND	3.33	2.78	745492-1
	Male	A	A31965-ND§	3.12	2.60	1-745492-7
	Female	A	A31973-ND§	3.93	3.28	1-745491-6
15	Male	A	A31967-ND§	5.37	4.48	1-745494-7
	Female	A	A31976-ND§	9.36	7.80	1-745493-6
25	Male	A	A31969-ND§	6.54	5.45	1-745496-9
	Female	A	A31978-ND§	7.20	6.00	1-745495-7
37	Male	A	A31972-ND§	9.99	8.33	1-745498-6
	Female	A	A31981-ND§	8.97	7.48	1-745497-6
Metal Shell for 26-22 AWG Wire						
9	Male	A	A31930-ND§	3.88	3.23	1-745492-8
	Female	A	A31931-ND§	3.83	3.20	1-745491-7
	Male	B	A23083-ND	4.80	4.00	745492-5
	Male	B	A31929-ND§	2.85	2.38	2-745492-0
	Female	B	A31975-ND§	3.69	3.08	1-745491-8
15	Male	A	A1044-ND	6.00	5.00	745494-2
	Female	A	A31932-ND§	5.25	4.38	1-745493-4
	Male	B	A31968-ND§	5.25	4.38	1-745494-6
	Female	B	A31977-ND§	5.79	4.83	1-745493-5
25	Male	A	A31933-ND§	5.43	4.53	1-745496-7
	Female	A	A1047-ND	9.00	7.50	745495-2
	Female	A	A31934-ND§	8.40	7.00	1-745495-8
	Male	B	A31971-ND§	5.07	4.23	1-745496-8
	Female	B	A31980-ND§	17.88	14.90	2-745495-0
37	Male	A	A1048-ND	8.97	7.48	745498-2
	Male	A	A31935-ND§	6.93	5.78	1-745498-5
	Female	A	A1049-ND	14.76	12.30	745497-2
	Female	A	A31936-ND§	8.49	7.08	1-745497-5

No. of Pos.	Sex	Cont. Fin.	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Metal Shell for 22-20 AWG Wire						
9	Male	A	A31966-ND§	3.84	3.20	1-745492-9
	Female	A	A31974-ND§	4.29	3.58	1-745491-9
25	Male	A	A31970-ND§	11.25	9.38	2-745496-0
	Female	A	A31979-ND§	9.96	8.30	1-745495-9
Plastic Shell for 26-22 AWG Wire						
9	Male	A	A2000-ND	3.82	3.19	745203-2
	Male	A	A31937-ND§	3.57	2.98	745203-9
	Female	A	A31938-ND§	3.33	2.78	745201-7
15	Male	A	A31939-ND§	6.54	5.45	745207-7
	Female	A	A31940-ND§	4.35	3.63	745205-7
25	Male	A	A31941-ND§	5.46	4.55	745211-7
	Female	A	A31942-ND§	6.18	5.15	745209-7
37	Male	A	A2006-ND	14.34	11.95	745215-2
	Male	A	A31943-ND§	7.47	6.23	7452157

§ *RoHS Compliant*

Description	Digi-Key Part No.	Price Each	AMP Part No.
Manual Pistol Grip Tool for Metal and All-Plastic Shell Connectors	A2031-ND	58.28	58074-1
Head Assembly Tool for D-Sub IDC Connectors	A2032-ND	207.90	58063-2

HDE-20 Socket

Interchangeable Contacts, Crimp Snap-In Precision Formed

Material: Phosphor bronze

Finish: Duplex plated 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated

Wire Size: 22-18 AWG

Insulation Diameter: Single Wire: .075" (1.91mm), Two Wire: .054" (1.37mm)

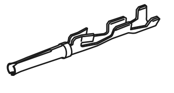

Socket

Desc.	Digi-Key Part No.	Cut Strip Pricing 100	500	AMP Part No.
Socket	A23002CT-ND A23002TR-ND	95.95	399.79 4317.71/10,000	745270-2 745270-2

HD-22 Front Metal-Shell Straight Posted

- **Shell:** steel, tin plated
- **Housing:** 94V-O rated thermoplastic, black
- **Pin Contacts (Posted) Brass:** 30µ" gold on mating end, tin-lead, with entire contact 50µ minimum nickel underplated

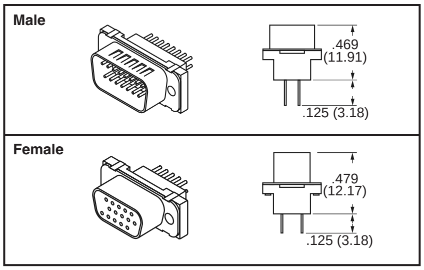

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
4-40 Threaded Inserts					
15	Male	A23071-ND	15.21	12.68	749798-1
15	Male	A31928-ND§	14.19	11.83	5749798-1
26	Female	A23073-ND	19.44	16.20	749030-1
26	Female	A31964-ND§	18.12	15.10	5749030-1
62	Female	A23072-ND	29.58	24.65	747786-6
62	Female	A31963-ND§	27.66	23.05	5747786-6

§ *RoHS Compliant*

tyco Electronics AMP

Series 109 Connectors for Crimp, Snap-In Contacts (Per MIL-C-24308 Qualified Connectors)

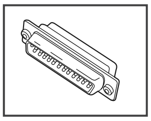

Class G steel shell has cadmium plating per ASTM-B633.
• Pins and Sockets Sold Separately • Only use sockets for Series 109 Connectors

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
		Crimp Type			
9	Male	A2150-ND	3.96	3.30	205162-1
9	Female	A2155-ND	3.96	3.30	205161-1
15	Male	A2151-ND	4.62	3.85	205164-1
15	Female	A2156-ND	4.62	3.85	205163-1
25	Male	A2152-ND	4.98	4.15	205166-1
25	Female	A2157-ND	4.98	4.15	205165-1
37	Male	A2153-ND	6.48	5.40	205168-1
37	Female	A2158-ND	6.48	5.40	205167-1
50	Male	A2154-ND	7.98	6.65	205170-1
50	Female	A2159-ND	7.98	6.65	205169-1

Series 109 Screw-Machined Pins and Sockets

CRIMP TYPE:
• Pin Diameter: .040” (1.02mm)

MATERIAL: • Pin Body – Copper Alloy **• Socket Body –** Beryllium Copper **• Finish:** 50μ Gold **• Contact Size:** 20 DM **• Pin Diameter:** .040” (1.02mm) **• Test Current:** 7.5 amperes

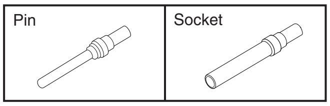

Description	Digi-Key Part No.	Price Each 10	100	AMP Part No.
	50μ Gold			
Pin (24-20 AWG)	A2160-ND§	1.16	.71	205089-1
Socket (24-20 AWG)	A2161-ND§	1.72	1.06	205090-1

§ *RoHS Compliant*

Description	Digi-Key Part No.	Price Each	AMP Part No.
Insertion/Extraction Tool for Series 109 D-Sub Crimp Contacts	A9979-ND	14.93	91285-1
Hand Crimping Tool for Screw-Machined Contacts (20DM)	A9977-ND	653.63	601966-1
Positioner (Use with A9977-ND)	A9797-ND	171.68	601966-5

High Density D-Sub Connectors

HDP-22 Crimp Type Tin Plated Shell

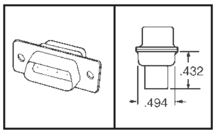

ELECTRICAL CHARACTERISTICS: • Contact Rating: 5.0 amperes **• Dielectric Strength:** 1000VAC minimum **• Insulation Resistance:** 5000MΩ minimum **MECHANICAL CHARACTERISTICS: • Contact Insertion Force:** 3 pounds maximum **• Durability:** 30μ gold – 500 cycles; Gold Flash - 100 cycles

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	Male	A2076-ND§	3.07	2.56	748364-1
15	Female	A31948-ND§	3.33	2.78	1658681-1
26	Male	A31944-ND§	5.04	4.20	1658671-1
26	Female	A31949-ND§	5.64	4.70	1658682-1
44	Male	A31945-ND§	5.64	4.70	1658672-1
44	Female	A2083-ND	7.65	6.38	748567-1
44	Female	A31950-ND§	7.14	5.95	1658683-1
62	Male	A31946-ND§	5.46	4.55	1658673-1
62	Female	A2084-ND	9.12	7.60	748568-1
62	Female	A31951-ND§	8.40	7.00	1658684-1
78	Male	A31947-ND§	6.30	5.25	1658674-1
78	Female	A2085-ND	12.33	10.28	748569-1
78	Female	A31952-ND§	8.73	7.28	1658685-1

§ *RoHS Compliant*

HDP-22 Pins and Sockets

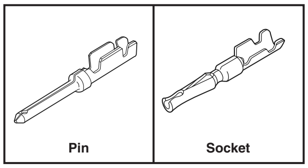

CRIMP TYPE: – Pin Diameter: .030” (.76mm)
MATERIAL: Pin – Brass **Socket –** Phosphor bronze
Finish: 30μ Gold – Duplex plated 30μ gold on mating end, tin-lead on crimp barrel, with entire contact nickel underplated **Gold Flash –** Duplex plated gold flash on mating end, tin-lead on crimp barrel, with entire contact nickel underplated

Description	Digi-Key Part No.	Pricing 10	100	AMP Part No.
Pin (22-28 AWG), 30μ Gold	A31954-ND§	1.77	14.13	1658670-2
Socket (22-28 AWG), 30μ Gold	A31955-ND§	1.36	10.87	1658686-2
Pin (22-28 AWG), Gold Flash	A31953-ND§	1.03	8.27	1658670-4
Socket (22-28 AWG), Gold Flash	A31956-ND§	1.54	12.29	1658686-4

Description	Digi-Key Part No.	Cut Strip Pricing 100	500	Digi-Key Part No.	Tape & Reel Pricing / 20,000	AMP Part No.
Socket (22-28 AWG), Gold Flash	A2090CT-ND	13.93	58.05	—	—	748610-5
Socket (22-28 AWG), Gold Flash	A31956CT-ND§	14.42	60.09	A31956TR-ND§	1297.89	1658686-3

§ *RoHS Compliant*

Description	Digi-Key Part No.	Price Each	AMP Part No.
Insertion/Extraction Tool for High Density D-Sub Crimp Contacts	A9979-ND	14.93	91285-1
Crimp Tool for High Density D-Sub w/Die	A9815-ND	176.51	90800-1
Pro-Crimper II Hand Tool w/o Die Crimp Tool for High Density	A9996-ND	66.00	354940-1

High Density D-Sub Connectors

HD-22 Right Angle

ELECTRICAL CHARACTERISTICS: • Single Contact Current Rating: 2.0 amperes **• Dielectric Withstanding Voltage:** 1000VAC minimum

MATERIAL AND FINISH: • Front Shell: Steel, tin plated **• Housing:** 94 V-0 rated **• Socket Contacts:** Phosphor bronze **• Contact Finish:** Duplex Plated: 30μ gold mating end, tin-lead on termination end, with entire contact nickel underplated

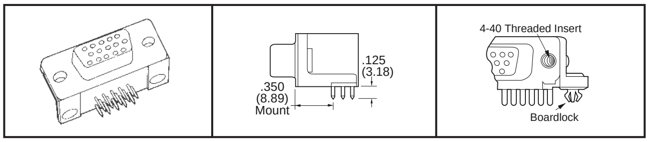

No. of Pos.	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
		Threaded Inserts With Boardlocks			
26	Female	A31925-ND§	7.68	6.40	5748481-5
44	Female	A31957-ND§	5.16	4.30	5748482-5
62	Female	A2094-ND	22.20	18.50	748394-5
62	Female	A31958-ND§	20.76	17.30	5748394-5
78	Female	A23067-ND	30.72	25.60	748483-5
78	Female	A31962-ND§	28.71	23.93	5748483-5
15	Male	A31927-ND§	5.52	4.60	5749767-1
62	Male	A31926-ND§	15.57	12.98	5749639-1
		Screwlocks With Boardlocks			
26	Female	A23066-ND	12.18	10.15	748481-6
26	Female	A31961-ND§	11.43	9.53	5748481-6
62	Female	A23065-ND	27.00	22.50	748394-6
62	Female	A31960-ND§	18.03	15.03	5748394-6
		Threaded Inserts Without Boardlocks			
26	Female	A23063-ND*	10.56	8.80	1-748481-9
26	Female	A31959-ND*§	13.74	11.45	1-5748481-9

* .125” (3.18mm) diameter holes **§ *RoHS Compliant***

SCSI Terminators

SCSI TYPES:
Single-Ended: Allows up to 5 megabytes per second **A. Passive:** 220/330Ω; for lower data transmission rates • Termination of each signal consists of 220Ω to Term Power Line and 330Ω to ground • 36 resistors • Ideal impedance match, 132Ω **B. Active:** Also referred to as “Regulated” or “Boulay.” These terminators include a voltage regulator along with resistors and capacitors. They support applications requiring longer cable lengths and faster data transmission rates. • Eighteen 110Ω resistors • Three or more capacitors • Two voltage reference resistors • One voltage regulator **Differential:** Allows up to 10 megabytes per second, cable lengths up to 25 meters • Requires more powerful drivers than single-ended • Ideal impedance match, 122Ω **Force Perfect:** Use with near non-SCSI applications wherein the larger bandwidth and faster risetimes create special problems; compensates for variances by averaging the impedance mismatches through diode switching and biasing techniques. Circuitry: Thick film resistors and/or discreet components on aluminum substrate or plastic laminate **Active Negation:** Used by SCSI-2 and SCSI-3 Drivers and Receivers in single ended active applications to help ensure clean, noise-free transitions of the signals. These terminators can source as well as sink current, thereby maintaining voltage control.

Fig. 1

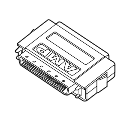

Fig. 2

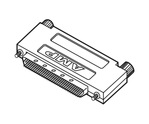

Fig. 3

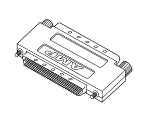

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
		Single Ended Passive				
1	50	AMPLIMITE® .050” (1.27mm) Series Plug; “A” Cable SCSI-2, Low Profile, ABS	A15036-ND	23.57	19.06	750881-1
1	50	AMPLIMITE® .050” (1.27mm) Series Plug; “A” Cable SCSI-2, Zinc	A23538-ND	45.80	37.04	749535-2
		Single Ended Active				
1	50	AMPLIMITE® .050” (1.27mm) Series Plug; “A” Cable SCSI-2, Low Profile, ABS	A15037-ND	40.23	32.53	869546-1
3	68	Plug Feed-Thru to 68 Position Receptacle	A15043-ND	93.51	75.61	869684-1

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
2	68	AMPLIMITE® .050” (1.27mm) Series Plug; “P&Q” Cable SCSI-3	A32494-ND§	62.32	50.39	1696124-1
		Force Perfect				
2	68	.050” (1.27mm) Series Plug	A23541-ND	50.03	40.46	869867-1
		Active Negation Compatible				
2	68	.050” (1.27mm) Center-Line Ribbon Cable SCSI-3	A32160-ND§	36.92	29.85	1696105-1

§ *RoHS Compliant*

Shielding Hardware Kits

HDE-20 Basic Shielding Hardware Kits

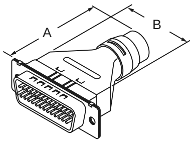

Kit Contents (unassembled): Connector, inner shield, outer shield **(ferrules must be purchased separately).**

Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Contacts: Phosphor bronze • Contact Finish-Duplex Plated: **A:** 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated. **B:** Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated.

No. of Pos.	Maximum Cable Diameter Inch (mm)†	Sex	Contact Finish	AWG	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	.350 (8.89)	Male	A	26-22	1.520 (38.61)	.678 (17.22)	A23518-ND	9.90	8.25	747515-2
	.350 (8.89)	Male	A	26-22	1.520 (38.61)	.678 (17.22)	A31540-ND*	5.55	4.63	747515-7
	.350 (8.89)	Female	A	26-22	1.520 (38.61)	.678 (17.22)	A31541-ND*	5.88	4.90	747516-7
25	.350 (8.89)	Male	A	26-22	1.520 (38.61)	1.550 (39.37)	A23520-ND	26.70	22.25	747547-2
	.350 (8.89)	Female	A	26-22	1.520 (38.61)	1.550 (39.37)	A23523-ND	16.95	14.13	747548-2
	.350 (8.89)	Male	B	26-22	1.520 (38.61)	1.550 (39.37)	A23521-ND	17.49	14.58	747547-5
	.350 (8.89)	Male	A	26-22	1.520 (38.61)	1.550 (39.37)	A31542-ND*	12.15	10.13	747547-9
	.350 (8.89)	Female	A	26-22	1.520 (38.61)	1.550 (39.37)	A31543-ND*	9.36	7.80	747548-8
	.350 (8.89)	Male	B	26-22	1.520 (38.61)	1.550 (39.37)	A31509-ND*	9.42	7.85	1-747547-0
	.350 (8.89)	Female	B	26-22	1.520 (38.61)	1.550 (39.37)	A31544-ND*	8.07	6.73	747548-9
37	.450 (11.43)	Female	B	26-22	1.867 (47.42)	2.205 (56.01)	A23525-ND	26.07	21.73	747564-5
	.450 (11.43)	Female	B	26-22	1.867 (47.42)	2.205 (56.01)	A31545-ND*	14.01	11.68	747564-9

† Maximum cable diameter after jacket and braid removed. * ***RoHS Compliant***

HDE-20 Basic Shielding Hardware Kits

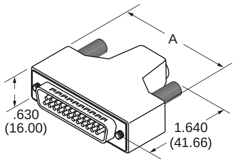

Kit Contents (unassembled): Connector, inner shield, outer shield, enclosure, two jackscrews **(ferrules must be purchased separately).**

Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Enclosure: PVC, black • Jackscrews: Zinc alloy • Contacts: Phosphor bronze • Contact Finish - Duplex Plated: **A:** 30µ gold on mating end, tin-lead on termination end, with entire contact nickel underplated **B:** Gold flash on mating end, tin-lead on termination end, with entire contact nickel underplated.

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Contact Finish	AWG	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	.350 (8.89)	Male	A	26-22	1.355 (34.42)	A31512-ND*	9.96	8.30	1-747944-5
	.350 (8.89)	Male	B	26-22	1.355 (34.42)	A31513-ND*	11.34	9.45	1-747944-6
	.350 (8.89)	Female	A	30-26	1.355 (34.42)	A31510-ND*	10.20	8.50	1-747943-5
	.350 (8.89)	Female	A	26-22	1.355 (34.42)	A31511-ND*	10.20	8.50	1-747943-6
15	.350 (8.89)	Male	B	26-22	1.685 (42.80)	A31515-ND*	11.76	9.80	1-747946-6
	.350 (8.89)	Female	A	30-26	1.685 (42.80)	A31514-ND*	11.40	9.50	1-747945-5
25	.350 (8.89)	Female	B	26-22	2.210 (56.13)	A23537-ND	27.21	22.68	747947-5
	.350 (8.89)	Male	A	30-26	2.210 (56.13)	A31518-ND*	6.24	5.20	1-747948-5
	.350 (8.89)	Male	A	26-22	2.210 (56.13)	A31519-ND*	12.93	10.78	1-747948-6
	.350 (8.89)	Male	B	26-22	2.210 (56.13)	A31520-ND*	10.98	9.15	1-747948-8
	.350 (8.89)	Female	A	26-22	2.210 (56.13)	A31516-ND*	13.53	11.28	1-747947-6
	.350 (8.89)	Female	B	26-22	2.210 (56.13)	A31517-ND*	15.00	12.50	1-747947-7

† Maximum cable diameter after jacket and braid removed. * ***RoHS Compliant***

HDP-20 Shielding Hardware Enclosure Kits

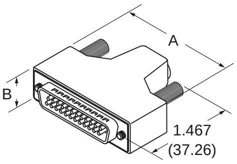

Kit Contents (unassembled):

Connector, inner shield, outer shield, enclosure, two jackscrews **(contacts and ferrules must be purchased separately).**

Material and Finish:

- Connector Shell: Steel, tin plated
- Connector Insert: 94V-0 rated thermoplastic, black
- Shield: Steel, tin plated
- Enclosure: PVC, black
- Jackscrews: Zinc alloy.

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	.350 (8.89)	Male	1.355 (34.42)	.630 (16.00)	A31493-ND*	6.69	5.58	1658655-1
	.350 (8.89)	Female	1.355 (34.42)	.630 (16.00)	A31492-ND*	7.32	6.10	1658654-1
15	.350 (8.89)	Male	1.685 (42.80)	.630 (16.00)	A31495-ND*	6.69	5.58	1658657-1
	.350 (8.89)	Female	1.685 (42.80)	.630 (16.00)	A31494-ND*	7.20	6.00	1658656-1
25	.350 (8.89)	Male	2.210 (56.13)	.630 (16.00)	A31497-ND*	8.79	7.33	1658659-1
	.350 (8.89)	Female	2.210 (56.13)	.630 (16.00)	A31496-ND*	8.97	7.48	1658658-1
37	.450 (11.43)	Male	2.865 (72.77)	.730 (18.54)	A31530-ND*	17.67	14.73	5747958-1
	.450 (11.43)	Female	2.865 (72.77)	.730 (18.54)	A31498-ND*	10.56	8.80	1658660-1
50	.450 (11.43)	Male	2.775 (70.49)	.730 (18.54)	A31499-ND*	12.03	10.03	1658661-1
	.450 (11.43)	Female	2.775 (70.49)	.730 (18.54)	A31531-ND*	17.61	14.68	5747959-1

† Maximum cable diameter after jacket and braid removed. * ***RoHS Compliant***

HDP-20 Basic Shielding Hardware Kits

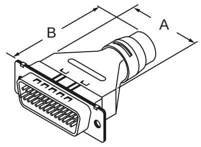

Kit Contents (unassembled):

Connector, inner shield, outer shield **(contacts and ferrules must be purchased separately).**

Material and Finish:

- Connector Shell: Steel, tin plated
- Connector Insert: 94V-0 rated thermoplastic, black
- Shield: Steel, tin plated.

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Mounting Method	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	.350 (8.89)	Male	Standard	.700 (17.78)	1.535 (38.99)	A31483-ND*	1.88	1.57	1648645-1
	.350 (8.89)	Female	Standard	.700 (17.78)	1.535 (38.99)	A31484-ND*	1.67	1.40	1658646-1
	.350 (8.89)	Male	Clinch Nut	.700 (17.78)	1.535 (38.99)	A31536-ND*	7.44	6.20	5748526-1
15	.350 (8.89)	Male	Standard	1.024 (26.01)	1.535 (38.99)	A31485-ND*	2.01	1.68	1658647-1
	.350 (8.89)	Female	Standard	1.024 (26.01)	1.535 (38.99)	A31529-ND*	2.10	1.75	5747539-1
25	.350 (8.89)	Female	Standard	1.576 (40.03)	1.535 (38.99)	A23480-ND	2.24	1.87	747555-1
	.350 (8.89)	Male	Standard	1.576 (40.03)	1.535 (38.99)	A31486-ND*	2.09	1.75	1658648-1
	.350 (8.89)	Female	Standard	1.576 (40.03)	1.535 (38.99)	A31487-ND*	2.09	1.75	1658649-1
	.350 (8.89)	Female	Clinch Nut	1.576 (40.03)	1.535 (38.99)	A31500-ND*	7.77	6.48	1658662-1
37	.450 (11.43)	Male	Standard	2.215 (56.26)	1.892 (48.03)	A31488-ND*	3.36	2.80	1658650-1
	.450 (11.43)	Female	Standard	2.215 (56.26)	1.892 (48.03)	A31489-ND*	5.01	4.18	1658651-1
50	.450 (11.43)	Male	Standard	2.120 (53.85)	1.876 (47.65)	A31490-ND*	6.63	5.53	1658652-1
	.450 (11.43)	Female	Standard	2.120 (53.85)	1.876 (47.65)	A31491-ND*	8.01	6.68	1658653-1

† Maximum cable diameter after jacket and braid removed. * ***RoHS Compliant***

(Continued)

HDP-20 Preassembled Basic Shielding Hardware Kit

Preassembled connector kits are available in Subminiature D, shell size 2, 15-position configuration and accept crimp, snap-in HD-20 contacts.

Contacts area available separately and allow for selective positioning.

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	.350 (8.89)	Male	A31539-ND*	11.46	9.55	5749246-1

† Maximum cable diameter after jacket and braid removed. ***** RoHS Compliant***

HDP-22 Shielding Hardware Enclosure Kits - Crimp Snap-In Contact Connectors

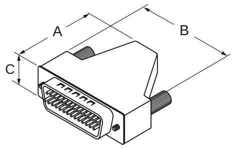

Kit Contents (unassembled): Connector, inner shield, outer shield, enclosure, two jackscrews **(contacts and ferrules must be purchased separately).**

Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated • Enclosure: PVC, black • Jackscrews: Zinc alloy.

Plugs accept size 22 DF pin contacts and receptacles accept size 22 DF socket contacts.

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	.350 (8.89)	Male	1.640 (41.66)	1.355 (34.42)	.630 (16.00)	A31504-ND*	10.86	9.05	1658678-1
	.350 (8.89)	Female	1.640 (41.66)	1.355 (34.42)	.630 (16.00)	A31507-ND*	11.73	9.78	1658688-1
26	.350 (8.89)	Male	1.640 (41.66)	1.685 (42.80)	.630 (16.00)	A31505-ND*	11.76	9.80	1658679-1
	.350 (8.89)	Female	1.640 (41.66)	1.685 (42.80)	.630 (16.00)	A31508-ND*	12.69	10.58	1658689-1
62	.450 (11.43)	Male	2.010 (41.66)	2.860 (72.64)	.730 (18.54)	A31534-ND*	15.30	12.75	5748476-1
	.450 (11.43)	Female	2.010 (51.05)	2.860 (72.64)	.730 (72.64)	A31538-ND*	18.93	15.78	5748642-1
78	.450 (11.43)	Male	2.010 (51.05)	2.770 (70.36)	.730 (18.54)	A31535-ND*	16.65	13.88	5748477-1

† Maximum cable diameter after jacket and braid removed. ***** RoHS Compliant***

HDP-22 Basic Shielding Hardware Kits - Crimp Snap-In Contact Connectors

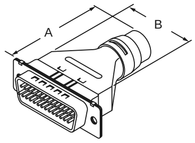

Kit Contents (unassembled): Connector, inner shield, outer shield **(contacts and ferrules must be purchased separately).**

Material and Finish: • Connector Shell: Steel, tin plated • Connector Insert: 94V-0 rated thermoplastic, black • Shield: Steel, tin plated.

Plugs accept size 22 DF pin contacts and receptacles accept size 22 DF socket contacts.

No. of Pos.	Maximum Cable Diameter Inch (mm) †	Sex	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
15	.350 (8.89)	Female	1.535 (38.99)	.700 (17.78)	A23503-ND	3.67	3.06	748634-1
	.350 (8.89)	Male	1.535 (38.99)	.700 (17.78)	A31501-ND*	2.46	2.05	1658675-1
	.350 (8.89)	Female	1.535 (38.99)	.700 (17.78)	A31537-ND*	2.81	2.35	5748634-1
26	.350 (8.89)	Male	1.535 (38.99)	1.024 (26.01)	A23499-ND	10.05	8.38	748469-1
	.350 (8.89)	Male	1.535 (38.99)	1.024 (26.01)	A31502-ND*	7.92	6.60	1658676-1
	.350 (8.89)	Female	1.535 (38.99)	1.024 (26.01)	A31506-ND*	8.94	7.45	1658687-1
44	.350 (8.89)	Male	1.535 (38.99)	1.576 (40.03)	A31503-ND*	9.00	7.50	1658677-1
62	.450 (11.43)	Male	1.892 (48.06)	2.215 (56.26)	A31532-ND*	10.83	9.03	5748471-1
78	.450 (11.43)	Male	1.876 (47.65)	2.120 (53.85)	A23502-ND	12.09	10.08	748472-1
	.450 (11.43)	Male	1.876 (47.65)	2.120 (53.85)	A31533-ND*	11.31	9.43	5748472-1

† Maximum cable diameter after jacket and braid removed. ***** RoHS Compliant***

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tyco Electronics AMP

AMPLIMITE®

Die Sets and Ferrules for Shielding Hardware Kits

Material and Finish: Steel (annealed), tin plated

Stepped

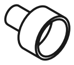

Straight

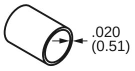

Cable Diameter Inch (mm)	Dimension - Length Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
		Stepped Ferrules			
.230 - .265 (5.84 - 6.73)	.625 (15.88)	A23557-ND	2.49	2.08	1-747580-0
		Stepped Ferrules - RoHS Compliant			
.165 - .246 (4.19 - 6.25)	.440 (11.18)	A31524-ND	.35	.30	3-747579-0
.230 - .265 (5.84 - 6.73)	.625 (15.88)	A31546-ND	2.43	2.03	2-747580-4
.246 - .324 (6.25 - 8.23)	.440 (11.18)	A31525-ND	.26	.22	3-747579-2
.324 - .375 (8.23 - 9.53)	.440 (11.18)	A31526-ND	.30	.24	3-747579-4
.375 - .432 (9.53 - 10.97)	.625 (15.88)	A31522-ND	.54	.45	2-747580-1
.422 - .49 (10.72 - 12.45)	.625 (15.88)	A31528-ND	.54	.45	3-747580-1
		Straight Ferrules - RoHS Compliant			
.375 - .435 (9.53 - 11.05)	.440 (11.18)	A31521-ND	.60	.50	2-747579-7
.400 - .455 (10.16 - 11.56)	.440 (11.18)	A31527-ND	.48	.40	3-747579-6
.480 - .562 (12.19 - 14.28)	.625 (15.88)	A31523-ND	.81	.68	2-747580-2

Cable Diameter Inch (mm)	Dimension - Length Inch (mm)	Digi-Key Part No.	Price Each	AMP Part No.
	Crimp Tooling Stepped Ferrule Die Sets			
.217 - .246 (5.51 - 6.25) .246 - .284 (6.25 - 7.21)	.440 (11.18) .440 (11.18)	A23579-ND A23580-ND	469.53 469.53	543424-8 543424-1
	Crimp Tooling Straight Ferrule Die Sets			
Hand Crimping Tool (for above die sets)		A23576-ND	692.16	543344-1

Fig. 1

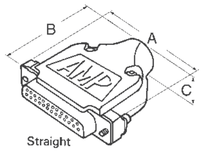

Die Cast Shield: Zinc alloy, plated nickel over copper. **Metal-Plated Plastic Shield:** Thermoplastic, plated nickel over copper. **Plastic Shield:** Thermoplastic, black.

Fig. 2

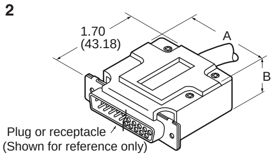

Cable Clamp Housing: Thermoplastic, black with textured finish. **Gates:** Thermoplastic, black. **Flat Head Screws:** Steel, black, zinc plated.

Fig. 3

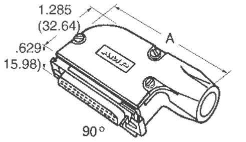

ETHERNET Slide-locking hood. 90° exit RFI/EMI die cast shields. **Shield:** Zinc alloy, plated nickel over copper.

Fig. 4

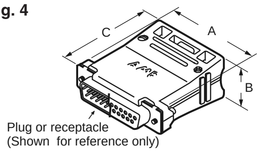

Cable Clamp Housing: Thermoplastic **4-40 Mounting Screws:** Steel, zinc plated. **Flat 4-40 Housing Screws:** Steel, zinc plated.

Fig. 5

Plastic Shield: Each kit contains: 1-Hinged Plastic Clamp, 2-Retention Screws, 2-Retention Clips, 1-Cable Gate Plug, 1-Strain Relief Clip, 2-Self Tapping Screws, 1-Connector and Contacts. **Material and Finish: Cover:** Polypropylene, black. **Retention/Self-Tapping Screws:** Steel, zinc plated. **Retention Clips/Strain Relief Clip:** Stainless steel. **Cable Gate Plug:** Polypropylene.

Plastic Shield with Connector: Each kit contains: 1-Hinged Plastic Clamp, 2-Self Tapping Screws, 1- Strain Relief Clip, 1-Cable exit gate plug (used to close unused exit). **Material and Finish: Cover:** Polypropylene, black. **Strain Relief Clip:** Stainless steel. **Retainer Clip:** Stainless steel. **Screws:** Carbon steel, zinc plated.

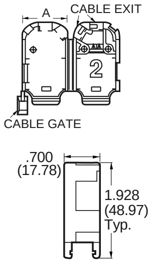

Fig. 6

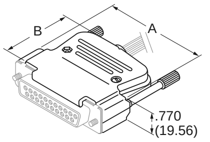

Cable Clamp Housing: Polyester, black. **4-40 Fillister Head Screws & Hex Nuts:** Steel, clear zinc plated. **Jack Screws:** Steel, black zinc plated

Fig. 7

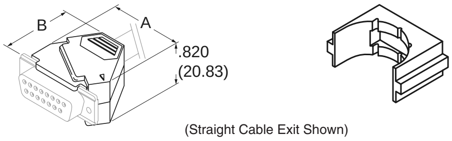

(Straight Cable Exit Shown)

Straight/90° Exit Cable Clamps can be used on a plug or receptacle and will not interfere with commonly used mating hardware. Their three-piece construction allows easy assembly to a cable harness. Also, the same cable clamp components are used for both straight and 90° cable exit applications. This is accomplished by simply positioning the Male and Female Panels on the Yoke for the desired angle. **Material:** Thermoplastic, black.

Fig. 8

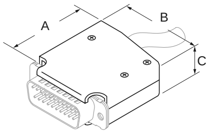

Straight/45° Exit Cable Clamps can be used on either a plug or receptacle and will not interfere with commonly used hardware, such as Male Screw Retainers, Female Screw-locks or Spring Latches and Latching Blocks. Their hinged construction allows easy assembly to a harness. Also, the straight or 45° angle of the cable exit is achieved by merely positioning the Cable Support Gate for the desired angle prior to installing the assembly onto the plug or receptacle.

Material and Finish: Cable Clamp Housing: Thermoplastic, black with textured finish. **Gates:** Thermoplastic, black. **Pan Head Screw, 6-32 Set Screw and 6-32 Square Nut:** Steel, zinc plated (9 & 15 positions include self-tapping screws only).

Fig. 9

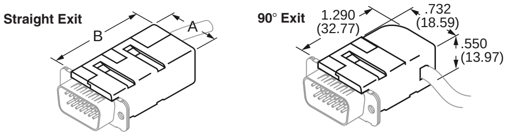

Low Profile Cable Clamps feature a two piece construction which allows the two cover halves to be snapped together, no hardware is required for assembly. They can be used on plugs or receptacles and will not interfere with commonly used mating hardware. Sufficient Cable Support Gates (or a Cable Support Latch) are supplied with each cable clamp kit to achieve adjustable clamping over a wide range of jacketed cable diameters. **Material:** Thermoplastic, black.

Note: To be used with HDE connectors only.

Fig. 10

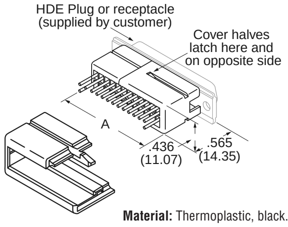

Material: Thermoplastic, black.

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	C	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded Straight Shell with Grommets (Hardware Included)										
1	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.320 (8.13)	Die Cast	A2061-ND†	6.36	5.30	748676-1
						Metal Plated	A2066-ND†	4.36	3.63	748677-1
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.320 (8.13)	Die Cast	A2062-ND†	6.48	5.40	748676-2
						Metal Plated	A2067-ND†	7.53	6.28	748677-2
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.470 (11.94)	Metal Plated	A2068-ND†	4.69	3.91	748677-3
						Die Cast	A2063-ND†	6.30	5.25	748676-3
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.470 (11.94)	Die Cast	A2064-ND†	10.20	8.50	748676-4
						Metal Plated	A2069-ND†	11.25	9.38	748677-4
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.470 (11.94)	Die Cast	A2065-ND†	12.90	10.75	748676-5
						Metal Plated	A2070-ND†	18.54	15.45	748677-5
Shielded Straight Shell (Must Order Ferrule & Grommets Separately)										
1	9	1.215 (30.86)	1.910 (48.51)	.550 (13.97)	.200 (5.08)	Die Cast	A2008-ND	7.50	6.25	745171-2
						Metal Plated	A23656-ND	4.83	4.03	745854-5
					.250 (6.35)	Die Cast	A2009-ND	6.69	5.58	745171-1
						Metal Plated	A23655-ND	4.69	3.91	745854-3
					.370 (9.40)	Die Cast	A23637-ND	8.55	7.13	745171-5
						Metal Plated	A23654-ND	4.83	4.03	745854-1
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.225 (5.72)	Die Cast	A2012-ND	7.77	6.48	745172-3
						Metal Plated	A23662-ND	6.72	5.60	747099-7
					.300 (7.62)	Die Cast	A2013-ND	8.55	7.13	745172-2
						Metal Plated	A23661-ND	6.72	5.60	747099-5
					.375 (9.53)	Die Cast	A2014-ND	7.38	6.15	745172-1
						Metal Plated	A23660-ND	4.74	3.95	747099-3
					.430 (10.92)	Die Cast	A23638-ND	7.92	6.60	1-745172-3
						Metal Plated	A23659-ND	7.17	5.98	747099-1
		1.545 (39.24)	1.805 (45.85)	.620 (15.75)	.375 (9.53)	Die Cast	A23673-ND	9.06	7.55	745919-2
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.280 (7.11)	Die Cast	A2020-ND	8.37	6.98	745173-5
						Metal Plated	A23653-ND	4.38	3.65	745833-9
					.350 (8.89)	Die Cast	A2021-ND	7.05	5.88	745173-4
						Metal Plated	A23652-ND	5.04	4.20	745833-7

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	C	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded Straight Shell (Must Order Ferrule & Grommets Separately) cont.										
1	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.430 (10.92)	Die Cast	A2022-ND	7.05	5.88	745173-3
						Metal Plated	A23651-ND	4.86	4.05	745833-5
					.480 (12.19)	Die Cast	A23640-ND	9.36	7.80	745173-2
					.530 (13.46)	Metal Plated	A23649-ND	6.87	5.73	745833-1
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.350 (8.89)	Die Cast	A2028-ND	9.48	7.90	745174-5
					.425 (10.80)	Die Cast	A2029-ND	9.54	7.95	745174-4
					.500 (12.70)	Die Cast	A2030-ND	9.57	7.98	745174-3
					.530 (13.46)	Die Cast	A23639-ND	22.02	18.35	2-745174-7
					.575 (14.61)	Die Cast	A23642-ND	9.48	7.90	745174-2
						Metal Plated	A23664-ND	10.14	8.45	747100-3
					.650 (16.51)	Die Cast	A23641-ND	9.54	7.95	745174-1
						Metal Plated	A23663-ND	6.96	5.80	747100-1
	50	2.644 (67.16)	1.920 (48.77)	.900 (22.86)	.450 (11.43)	Die Cast	A23647-ND	9.90	8.25	745175-5
					.525 (13.34)	Die Cast	A23646-ND	9.72	8.10	745175-4
					.600 (15.24)	Die Cast	A23645-ND	10.44	8.70	745175-3
					.675 (17.15)	Die Cast	A23644-ND	9.84	8.20	745175-2
					.750 (19.05)	Die Cast	A23643-ND	9.63	8.03	745175-1
Straight Shield with Grommets (Hardware Included)										
1	9	1.215 (30.86)	1.910 (48.51)	.570 (14.48)	.320 (8.13)	Plastic, Black	A2071-ND†	3.43	2.86	748678-1
	15	1.545 (39.24)	1.910 (48.51)	.620 (15.75)	.320 (8.13)	Plastic, Black	A2072-ND†	5.25	4.38	748678-2
	25	2.090 (53.09)	1.920 (48.77)	.680 (17.27)	.470 (11.94)	Plastic, Black	A2073-ND†	3.65	3.05	748678-3
	37	2.738 (69.55)	1.920 (48.77)	.800 (20.32)	.470 (11.94)	Plastic, Black	A2074-ND†	4.35	3.63	748678-4

† Sold as a kit; complete with Ferrule and Grommets.

(Continued)

Hoods *(Cont.)*

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	Max. Cable Diameter Inch (mm)	Descrip. (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Straight / 90° Shield (Hardware Included) — RoHS Compliant									
2	9	.755 (19.18)	.635 (16.13)	.160 (4.06)	Plastic	A9001-ND◊	2.77	2.31	207467-1
	15	1.078 (27.38)	.635 (16.13)	.320 (8.13)	Plastic	A9002-ND◊	3.40	2.84	207470-1
	25	1.620 (41.15)	.770 (19.56)	.390 (9.91)	Plastic	A9003-ND◊	3.49	2.91	207345-1
	37	2.268 (57.61)	.770 (19.56)	.640 (16.26) Straight .405 (10.29) 90°	Plastic	A9004-ND◊	3.60	3.00	207473-1
	50	2.178 (55.32)	.880 (22.35)	.490 (12.45)	Plastic	A2060-ND◊	3.63	3.03	207476-1
Plastic Shield with Male Screw Retainers (Hardware Included)									
2	9	.755 (19.18)	.635 (16.13)	.160 (4.06)	Plastic	A23621-ND	3.43	2.86	207908-1
	15	1.078 (27.38)	.635 (16.13)	.320 (8.13)	Plastic	A23622-ND	4.29	3.58	207908-4
	25	1.620 (41.15)	.770 (19.56)	.390 (9.91)	Plastic	A23623-ND	3.63	3.03	207908-7
	37	2.268 (57.61)	.770 (19.56)	.640 (16.26) Straight .405 (10.29) 90°	Plastic	A23617-ND	4.56	3.80	1-207908-0

◊ *RoHS Compliant*

Fig.	No. of Pos.	Dimension Inch (mm) A	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
90° Shell - Hardware Included (Must Order Ferrule Separately)								
3	15	2.310 (58.67)	.225 (5.72)	Die Cast	A2015-ND	23.73	19.78	745652-4
			.300 (7.62)	Die Cast	A2016-ND	14.82	12.35	745652-3
			.375 (9.53)	Die Cast	A2017-ND	13.89	11.58	745652-2
			.430 (10.92)	Die Cast	A2036-ND	14.43	12.03	745652-1
	25	2.850 (72.39)	.280 (7.11)	Die Cast	A2023-ND	17.61	14.68	745653-5
			.355 (9.02)	Die Cast	A2024-ND	17.67	14.73	745653-4
			.430 (10.92)	Die Cast	A2025-ND	17.43	14.53	745653-3
			.480 (12.19)	Die Cast	A23672-ND	19.98	16.65	745653-2
			.530 (13.46)	Die Cast	A23671-ND	17.61	14.68	745653-1

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	C	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Straight / 90° Shield (Hardware Included)										
4	15	1.550 (39.37)	.826 (20.98)	1.750 (44.45)	.350 (8.89)	Plastic, Gray	A2055-ND	3.99	3.33	206471-1
	25	2.090 (53.09)	.826 (20.98)	1.750 (44.45)	.335 (8.51)	Plastic, Gray	A2056-ND	3.99	3.33	206472-1
		2.090 (53.09)	.826 (20.98)	1.750 (44.45)	.460 (11.68)	Plastic, Gray	A2057-ND	3.96	3.30	745134-1
	37	2.738 (69.55)	.826 (20.98)	1.750 (44.45)	.675 (17.15)	Plastic, Gray	A2058-ND	4.26	3.55	745081-1
	50	2.644 (67.16)	.938 (23.83)	1.750 (44.45)	.775 (19.69)	Plastic, Gray	A2059-ND	4.35	3.63	745082-1

Fig.	No. of Pos.	Dimension Inch (mm) A	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Plastic Shield (Hardware Included)								
5	9	.782 (19.86)	.250 (6.35)	with Screws	A2051-ND	2.10	1.75	749914-2
				without Screws	A23608-ND	2.73	2.28	750100-1
	15	1.105 (28.07)	.380 (9.65)	with Screws	A2052-ND	2.04	1.70	749915-2
	25	1.650 (41.91)	.460 (11.68)	with Screws	A2053-ND	2.13	1.78	749626-2
Plastic Shield with Connector (Hardware Included)								
5	25	1.650 (41.91)	.460 (11.68)	Recpt./HDP-20	A32176-ND◊	5.31	4.43	1-749812-1
				Plug/HDE-20	A32175-ND◊	6.36	5.30	749809-9
				Recpt./HDE-20	A32177-ND◊	6.45	5.38	749813-8

◊ *RoHS Compliant*

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Unshielded Dataphone									
6	15	1.575 (40.01)	1.312 (33.32)	.400 (10.16)	Straight	A23603-ND	10.98	9.15	745122-2
	25	2.115 (53.72)	1.421 (36.09)	.500 (12.7)	Straight	A23602-ND	9.75	8.13	745121-2
7	25	1.906 (48.41) 2.066 (52.48)	1.672 (42.47) 1.396 (35.46)	.550 (13.97) .550 (13.97)	Straight 90°	A23604-ND◊	6.09	5.08	745306-1

◊ *RoHS Compliant*

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	C	Max. Cable Diameter Inch (mm)	Descrip. (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Straight / 45° Exit Unshielded Shell (Hardware Included)										
8	9	1.625 (41.28)	.750 (19.05)	.620 (15.75)	.256 (6.50)	Plastic	A23627-ND	2.73	2.28	205729-1
	9	1.625 (41.28)	.750 (19.05)	.620 (15.75)	.256 (6.50)	Plastic	A32178-ND◊	2.55	2.13	5205729-1
	15	1.250 (31.75)	1.073 (27.25)	.580 (14.73)	.320 (8.13)	Plastic	A23632-ND	4.26	3.55	206393-1
	15	1.625 (41.28)	1.073 (27.25)	.620 (15.75)	.320 (8.13)	Plastic	A23628-ND	3.33	2.78	205730-1
	25	1.625 (41.28)	1.615 (41.02)	.620 (15.75)	.420 (10.67)	Plastic	A23626-ND	2.50	2.09	205718-1
	37	1.625 (41.28)	2.263 (57.48)	.620 (15.75)	.490 (12.45)	Plastic	A32179-ND◊	3.84	3.20	5205731-1
	50	1.625 (41.28)	2.168 (55.07)	.730 (18.54)	.600 (15.24)	Plastic	A23630-ND	3.87	3.23	205732-1
Straight / 45° Exit Shell with Male Screw Retainers (Hardware Included)										
8	9	1.625 (41.28)	.750 (19.05)	.620 (15.75)	.256 (6.50)	Plastic	A23633-ND	2.88	2.40	206478-1
	25	1.250 (31.75)	1.615 (41.02)	.580 (14.73)	.420 (10.67)	Plastic	A23625-ND	12.24	10.20	1-206478-2
	25	1.625 (41.28)	1.615 (41.02)	.620 (15.75)	.420 (10.67)	Plastic	A23635-ND	2.77	2.31	206478-3

◊ *RoHS Compliant*

Fig.	No. of Pos.	Dimensions Inch (mm) A	B	Max. Cable Diameter Inch (mm)	Description (Type)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Unshielded Low Profile for Jacketed Cable — RoHS Compliant									
9	9	.732 (18.59)	1.582 (40.18)	.330 (8.38)	Straight	A23592-ND‡◊	7.44	6.20	745547-1
		—	—	.330 (8.38)	90°	A23594-ND‡◊	3.30	2.75	745550-1
	15	1.056 (26.82)	1.582 (40.18)	.425 (10.80)	Straight	A23595-ND‡◊	9.87	8.23	745553-1
	25	1.604 (40.74)	1.700 (43.18)	.550 (13.97)	Straight	A23596-ND‡◊	3.12	2.60	745560-1

‡ To be used with HDE connectors only. ◊ *RoHS Compliant*

Fig.	No. of Positions	Dimension Inch (mm) A	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Unshielded Plastic Slide-On Back Covers — RoHS Compliant						
10	25	1.482 (37.64)	A23600-ND◊	4.69	3.91	745530-3

◊ *RoHS Compliant*

AMPLIMITE® Ferrules For Metal Shell Hoods

Split-Ring Ferrules for Foil or Braided Cable Shield

- Material: Aluminum

Crimp Ferrules for Braided Cable Shield

- Material and Finish:
  Outer Ferrule: Copper, plated 100μ minimum tin
  Inner Ferrule: .023” (0.58mm) thick brass, plated 50μ tin over copper

SPLIT RING FERRULE

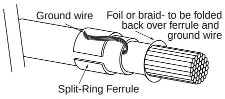
Ground wire
Foil or braid- to be folded back over ferrule and ground wire
Split-Ring Ferrule

CRIMP FERRULE

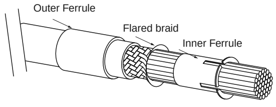

No. of Positions	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Split-Ring Ferrules — RoHS Compliant					
9/15	.225 - .240 (5.72 - 6.10)	A2011-ND◊	.38	.32	745508-3
9/15/50	.370 - .375 (9.40 - 9.53)	A2019-ND◊	.38	.32	745508-6
Inner Crimp Ferrules					
9	.280 (7.11)	A23572-ND	1.61	1.34	3-745129-4
Inner Crimp Ferrules — RoHS Compliant					
9/50	.240 (6.10)	A32165-ND◊	1.28	1.07	7-745129-0
9	.280 (7.11)	A32171-ND◊	1.50	1.26	7-745129-9
9/50	.365 - .370 (9.27 - 9.40)	A32164-ND◊	1.61	1.35	6-745129-9
15/37	.350 (8.90)	A32170-ND◊	.65	.55	7-745129-2
15/37	.430 (10.92)	A32166-ND◊	1.36	1.13	7-745129-1
37	.525 (13.34)	A32174-ND◊	3.17	2.65	7-745129-6
Outer Crimp Ferrules — RoHS Compliant					
9/15/25/37/50	.240 (6.10)	A32172-ND◊	.88	.73	3-745130-8
9/15/25/37	.280 (7.11)	A32169-ND◊	1.05	.88	4-745130-5
9/15/50	.365 - .370 (9.27 - 9.40)	A32167-ND◊	2.00	1.67	4-745130-0
15/25/37/50	.350 (8.90)	A32173-ND◊	.60	.50	3-745130-9
15/25/37/50	.430 (10.92)	A32168-ND◊	.78	.65	4-745130-1
37/50	.240 (6.10)	A32163-ND◊	.54	.45	2-747580-3

◊ *RoHS Compliant*

AMPLIMITE®

Accessories / Hardware

(Sold In Packages of 2 unless otherwise noted)

Fig. 1

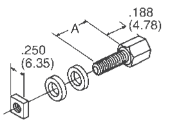

Fig. 2

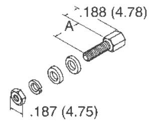

Fig. 3

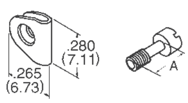

Fig. 4

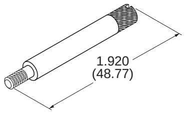

Fig. 5

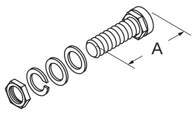

Fig. 6

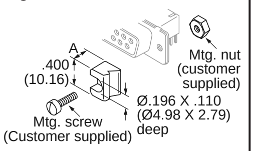

Fig. 7

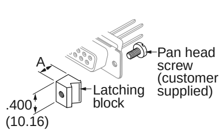

Fig. 8

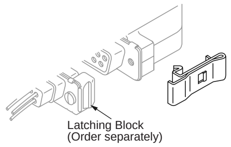

Fig. 9

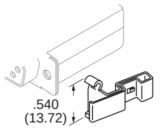

Fig. 10

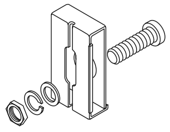

Fig. 11

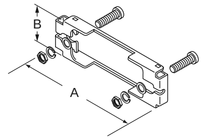

Style 1: Can be used with cable clamps that do not extend beyond the front flange of the connector or on connectors without cable clamps.

Style 2: Can be used with any cable clamp that has the mounting ear configuration.

Style 3: Can be used on connectors without cable clamps or with cable clamps that do not have the mounting ear configuration.

Fig. 12

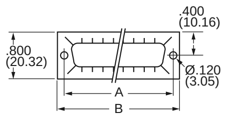

Fig. 13

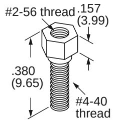

Fig. 14

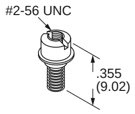

Fig. 15

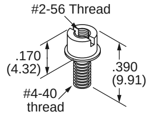

Fig.	Conn. Used w/ AMP Series	Finish	Thread	Dim. – A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
						1	25	
Female Screw Locks - Steel, Zinc Plated								
1	HD Plastic	Yellow Chromate	4-40	.250 (6.35)	A9005-ND	1.68	1.41	207952-1
2	HDE	Yellow Chromate	4-40	.250 (6.35)	A23427-ND	2.05	1.71	745563-1
	HDE	Clear Chromate	4-40	.250 (6.35)	A23428-ND	1.83	1.53	745563-3
	HDP/HDF	Yellow Chromate	4-40	.312 (7.92)	A9006-ND	1.75	1.46	205817-1
	HDP/HDF	Clear Chromate	4-40	.312 (7.92)	A32020-ND◊	1.67	1.40	5205817-3
	HDP/HDF	Yellow Chromate	4-40, MIL-C24308	.312 (7.92)	A24835-ND	.85	.72	205817-8
	HD/HDF	Yellow Chromate	4-40	.560 (14.22)	A9007-ND	1.70	1.42	207719-1
	HD/HDF	Clear Chromate	4-40	.560 (14.22)	A23423-ND	1.74	1.45	207719-3
	HD/HDF	Clear Chromate	4-40	.560 (14.22)	A32023-ND◊	1.64	1.37	5207719-3
	HD/HDF	Clear Chromate	2-56 Male (4-40 Female)	.560 (14.22)	A32026-ND◊	2.85	2.38	5747223-3
Individual Screwlocks - Steel, Zinc Plated (washers and nuts not included)								
1	HD	Clear Chromate	4-40	.250 (6.35)	A23426-ND	1.59	1.33	207952-3
2	HDP/HDF	Clear Chromate	M2.6 (Metric), Female (4-40 Male)	.312 (7.92)	A23432-ND	1.41	1.18	749765-3
	HDP/HDF	Yellow Chromate	4-40	.312 (7.92)	A23430-ND	1.05	.88	748270-2
	HDP/HDF	Clear Chromate	4-40	.312 (7.92)	A23431-ND†	572.70/500		748558-4
Male Screw Retainers for Plastic Shell Connectors - Steel, Zinc Plated (material)								
3	HDE	Yellow Chromate	4-40	.220 (5.59)	A1236-ND	1.05	.95	745647-1
Male Screw Retainers for Metal Shell Connectors - Steel, Zinc Plated (material)								
3	HDE/ HDP	Yellow Chromate	4-40	.220 (5.59)	A9008-ND	.65	.55	205980-1
		Yellow Chromate	4-40	.200 (5.08)	A23420-ND	1.23	1.03	745136-1
		Clear Chromate	4-40	.220 (5.59)	A32021-ND◊	.72	.61	5205980-4
Male Jack Screw - Steel, Zinc Plated — RoHS Compliant								
4	HDE/HDP	Clear Chromate	4-40	—	A23593-ND†◊	2.77	2.31	747784-3
Locking Post Assembly - Steel, Zinc Plated (2 complete assemblies)								
5	HD/HDE	Yellow Chromate	4-40	.410 (10.41)	A32022-ND◊	2.55	2.13	5206514-1
	HDF/HDP	Yellow Chromate	4-40	.560 (14.22)	A23440-ND	2.91	2.43	206514-6

† Bulk packed and with captivated star washer. No additional hardware included. ◊ ***RoHS Compliant***

Fig.	No. of Positions	Description	Thread	Dimension – A Inch (mm)	Digi-Key Part No.	Price Each		AMP Part No.
						1	25	
Latching Blocks - Slot Recess & Thru-Hole - Zinc — RoHS Compliant								
6	9-37	Rear-Panel Latching	—	.160 (4.06)	A23453-ND◊	4.42	3.69	747080-2
	9-37	Rear-Panel Latching	—	.190 (4.83)	A23451-ND◊	1.04	.87	745245-2
	9-37	Front-Panel Latching	—	.250 (6.35)	A23452-ND◊	.83	.69	745286-2
Latching Blocks - Threaded Hole - Zinc — RoHS Compliant								
7	9-37	Rear-Panel Latching	4-40	.190 (4.83)	A23449-ND◊	2.63	2.19	745403-8
	9-37	Rear-Panel Latching	4-40	.220 (5.59)	A23450-ND◊	6.96	5.81	747717-2
	9-37	Front-Panel Latching	M3	.250 (6.35)	A23447-ND◊	1.27	1.06	208101-1
	9-37	Front-Panel Latching	4-40	.250 (6.35)	A23448-ND◊	1.27	1.06	208101-8

◊ ***RoHS Compliant***

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each		AMP Part No.
				1	25	
Spring Latches - Stainless Steel — RoHS Compliant						
8	—	With Mounting Ears	A23445-ND◊	3.75	3.13	745255-2
9	9-37	Spring Latch	A23446-ND◊	1.70	1.42	745779-2
Slide Latch Clips - Steel, Zinc Plated (clip stainless steel, screws/washers/nuts - steel, zinc plated)						
10	—	Thread 4-40, Screw Length .415 (10.54mm)	A23441-ND	2.31	1.93	206942-1

◊ ***RoHS Compliant***

Fig.	No. of Positions	Style #	Thread Size	Dimensions - Inches (mm)		Digi-Key Part No.	Price Each		AMP Part No.
				A	B		1	25	
Slide Latch Clips - Stainless Steel (screws/washers/nuts - steel, zinc plated)									
11	9	1	4-40	1.397 (35.48)	.490 (12.45)	A23433-ND	3.27	2.73	745404-1
	15	2	2-56	1.725 (43.82)	.470 (11.94)	A23436-ND	5.01	4.18	745583-1
	25	2	2-56	2.265 (57.53)	.470 (11.94)	A23437-ND	8.25	6.88	745584-1
	25	3	4-40	2.265 (57.53)	.470 (11.94)	A23438-ND	4.26	3.55	745584-3
	37	1	4-40	2.913 (73.99)	.490 (12.45)	A32024-ND◊	5.28	4.40	5745407-1
	50	3	4-40	2.819 (71.60)	.575 (14.61)	A23435-ND	8.34	6.95	745578-3

◊ ***RoHS Compliant***

Fig.	No. of Positions	Dimensions - Inches (mm)		Digi-Key Part No.	Price Each		AMP Part No.
		A	B		1	25	
EMI/RFI Gaskets - Brass .006" (0.15mm) Thick, Bright Tin Plated							
12	9	.984 (24.99)	1.220 (30.99)	A32025-ND◊	1.29	1.08	5747024-3
	15	1.312 (33.32)	1.555 (39.50)	A23458-ND	3.72	3.10	747025-3
	25	1.852 (47.04)	2.100 (53.34)	A32027-ND◊	1.44	1.20	745776-4
	37	2.500 (63.50)	2.730 (69.34)	A23456-ND	1.71	1.43	745777-3
	37	2.500 (63.50)	2.730 (69.34)	A32028-ND◊	1.59	1.33	745777-4
13	Screwlock Kits for .050 Series, stainless steel			A23468-ND*◊	1.96	1.64	749087-2
14	Screwlock Kits for .050 Series, stainless steel, Thread 4-40			A23469-ND◊	3.27	2.73	750644-1
14	Screwlock Kits for .050 Series, stainless steel, Thread 2-56			A23470-ND◊	2.66	2.22	786585-2
15	Screwlock Kits for .050 Series, stainless steel			A23675-ND◊	4.08	3.40	750831-1
—	Grommet Set (4 per set), 9-15 positions			A23668-ND◊	.78	.65	747746-1
	Grommet Set (4 per set), 25-50 positions			A23669-ND◊	.87	.73	747973-1

* Recommended for right-angle board mount connectors. ◊ ***RoHS Compliant***

NorComp

High Density D-Sub Connectors 180 Series

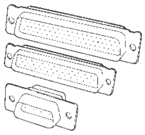

• Compatible with new generation systems from several computer manufacturers • Shells have bright tin finish for EMI/RFI shielding • Male connector shells have grounding indents • Reliable crimp snap-in contacts feature insulation grip for increased holding power • Contacts compatible with industry standard crimp tools. **Materials:** Shell: Steel, with bright tin over nickel. Insulator: Glass-filled thermoplastic, UL rated 94V-0. Male Pin: Brass. Female Contact: Phosphor bronze. Contact Plating: gold over nickel (gold flash on entire contact for solder cup and dip solder)

Stamped Contacts For High Density D-Sub Connectors

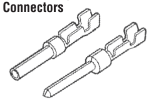

Wire Size: 22-26 AWG
Pin Dia.: .030" (.76mm)

No. of Pins	Shell Size	Dimensions (Inch) A	B	C	D
15	DB-9	1.213	0.984	0.496	0.422
26	DB-15	1.543	1.312	0.496	0.422
44	DB-25	2.087	1.852	0.496	0.422
62	DB-37	2.732	2.500	0.496	0.422
78	DB-50	2.638	2.406	0.606	0.550

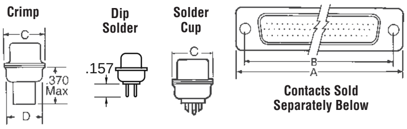

Contacts Sold Separately Below

Note: Contacts sold separately (below) for Crimp Type.

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Crimp						
15	Male	815M-ND	1.91	1.65	1.13	180-015-172-000
	Male	815ME-ND◊	2.05	1.77	1.21	180-015-173L000
	Female	815F-ND	1.91	1.65	1.13	180-015-272-000
	Female	815FE-ND◊	2.05	1.77	1.21	180-015-273L000
26	Male	826M-ND	5.90	5.09	3.46	180-026-172-000
	Male	826ME-ND◊	6.03	5.21	3.54	180-026-173L000
	Female	826F-ND	6.39	5.51	3.75	180-026-272-000
	Female	826FE-ND◊	6.54	5.64	3.84	180-026-273L000
44	Male	844M-ND	6.87	5.93	4.03	180-044-172-000
	Male	844ME-ND◊	7.33	6.33	4.30	180-044-173L000
	Female	844FE-ND◊	7.46	6.44	4.38	180-044-273L000
62	Male	862M-ND	8.76	7.55	5.14	180-062-172-000
	Male	862ME-ND◊	9.36	8.08	5.49	180-062-173L000
	Female	862FE-ND◊	8.54	7.37	5.01	180-062-273L000
78	Male	878M-ND	15.65	13.49	9.18	180-078-172-000
	Male	878ME-ND◊	16.01	13.81	9.39	180-078-173L000
	Female	878F-ND	10.72	9.25	6.29	180-078-272-000
	Female	878FE-ND◊	8.54	7.37	5.01	180-078-273L000
Crimp with .065" Clinch Nuts, Board Side						
15	Male	1815M-ND	3.02	2.60	1.77	180-015-172-010
	Male	1815ME-ND◊	2.92	2.52	1.72	180-015-173L010
	Female	1815F-ND	3.02	2.60	1.77	180-015-272-010
	Female	1815FE-ND◊	2.92	2.52	1.72	180-015-273L010
26	Male	1826M-ND	7.48	6.45	4.39	180-026-172-010
	Male	1826ME-ND◊	6.90	5.96	4.05	180-026-173L010
	Female	1826F-ND	7.74	6.68	4.54	180-026-272-010
	Female	1826FE-ND◊	7.41	6.39	4.35	180-026-273L010
44	Male	1844M-ND	8.27	7.13	4.85	180-044-172-010
	Male	1844ME-ND◊	8.20	7.08	4.81	180-044-173L010
	Female	1844F-ND	8.27	7.13	4.85	180-044-272-010
	Female	1844FE-ND◊	8.33	7.19	4.89	180-044-273L010
62	Male	1862M-ND	10.21	8.80	5.99	180-062-172-010
	Male	1862ME-ND◊	10.23	8.83	6.00	180-062-173L010
	Female	1862F-ND	10.21	8.80	5.99	180-062-272-010
	Female	1862FE-ND◊	9.41	8.12	5.52	180-062-273L010
78	Male	1878M-ND	18.39	15.85	10.78	180-078-172-010
	Male	1878ME-ND◊	16.88	14.56	9.90	180-078-173L010
	Female	1878FE-ND◊	11.84	10.21	6.95	180-078-273L010
Crimp with .250" Clinch Nuts, Board Side						
15	Male	2815M-ND	3.02	2.60	1.77	180-015-172-020
	Male	2815ME-ND◊	2.92	2.52	1.72	180-015-173L020
	Female	2815F-ND	3.02	2.60	1.77	180-015-272-020
	Female	2815FE-ND◊	2.92	2.52	1.72	180-015-273L020
26	Male	2826M-ND	7.48	6.45	4.39	180-026-172-020
	Male	2826ME-ND◊	6.90	5.96	4.05	180-026-173L020
	Female	2826F-ND	7.74	6.68	4.54	180-026-272-020
	Female	2826FE-ND◊	7.41	6.39	4.35	180-026-273L020
44	Male	2844M-ND	8.27	7.13	4.85	180-044-172-020
	Male	2844ME-ND◊	8.20	7.08	4.81	180-044-173L020
	Female	2844FE-ND◊	8.33	7.19	4.89	180-044-273L020
62	Male	2862M-ND	10.21	8.80	5.99	180-062-172-020
	Male	2862ME-ND◊	10.23	8.83	6.00	180-062-173L020
	Female	2862F-ND	10.21	8.80	5.99	180-062-272-020
	Female	2862FE-ND◊	9.41	8.12	5.52	180-062-273L020
78	Male	2878M-ND	18.39	15.85	10.78	180-078-172-020
	Male	2878ME-ND◊	16.88	14.56	9.90	180-078-173L020
	Female	2878FE-ND◊	11.84	10.21	6.95	180-078-273L020
Crimp with .250" Clinch Nuts, Mating Side						
15	Male	3815M-ND	3.02	2.60	1.77	180-015-172-030
	Male	3815ME-ND◊	2.92	2.52	1.72	180-015-173L030
	Female	3815F-ND	3.02	2.60	1.77	180-015-272-030
	Female	3815FE-ND◊	2.92	2.52	1.72	180-015-273L030
26	Male	3826M-ND	7.48	6.45	4.39	180-026-172-030
	Male	3826ME-ND◊	6.90	5.96	4.05	180-026-173L030
	Female	3826F-ND	7.74	6.68	4.54	180-026-272-030
	Female	3826FE-ND◊	7.41	6.39	4.35	180-026-273L030
44	Male	3844M-ND	8.27	7.13	4.85	180-044-172-030
	Male	3844ME-ND◊	8.20	7.08	4.81	180-044-173L030
	Female	3844F-ND	8.27	7.13	4.85	180-044-272-030
	Female	3844FE-ND◊	8.33	7.19	4.89	180-044-273L030
62	Male	3862M-ND	10.21	8.80	5.99	180-062-172-030
	Male	3862ME-ND◊	10.23	8.83	6.00	180-062-173L030
	Female	3862F-ND	10.21	8.80	5.99	180-062-272-030
	Female	3862FE-ND◊	9.41	8.12	5.52	180-062-273L030
78	Male	3878M-ND	18.39	15.85	10.78	180-078-172-030
	Male	3878ME-ND◊	16.88	14.56	9.90	180-078-173L030
	Female	3878F-ND	14.09	12.15	8.27	180-078-272-030
	Female	3878FE-ND◊	11.84	10.21	6.95	180-078-273L030
Contacts						
—	Pin	85P-ND	—	.13	.09	180-001-170-001
	Pin	85PECT-ND◊	—	.11	.07	180-001-170L001
	Pin	85PETR-ND◊	512.50/10,000			180-001-170L001
—	Socket	85S-ND	—	.13	.09	180-002-170-001
	Socket	85SECT-ND◊	—	.11	.07	180-002-170L001
	Socket	85SETR-ND◊	512.50/10,000			180-002-170L001
Tools						
Insertion/ Removal Tool		T2020-ND	8.76	7.55	5.14	180-901-170-000
High Density Crimp Tool		T3030-ND	199.50	—	—	180-701-170-000
Solder Cup						
15	Male	T815M-ND	2.13	1.84	1.25	180-015-102-001
	Male	T815ME-ND◊	2.29	1.97	1.34	180-015-103L001
	Female	T815F-ND	2.45	2.12	1.44	180-015-202-001
	Female	T815FE-ND◊	2.63	2.27	1.55	180-015-203L001
26	Male	T826ME-ND◊	7.44	6.42	4.37	180-026-103L001
	Female	T826FE-ND◊	6.54	5.64	3.84	180-026-203L001
44	Male	T844ME-ND◊	8.97	7.74	5.26	180-044-103L001
	Female	T844FE-ND◊	10.39	8.96	6.10	180-044-203L001
62	Male	T862ME-ND◊	11.16	9.62	6.54	180-062-103L001
	Female	T862F-ND	11.74	10.13	6.89	180-062-202-001
	Female	T862FE-ND◊	12.62	10.88	7.40	180-062-203L001
Solder Cup with .065" Clinch Nuts, Board Side						
15	Male	4815M-ND	3.28	2.83	1.93	180-015-102-011
	Male	4815ME-ND◊	3.16	2.72	1.85	180-015-103L011
	Female	4815F-ND	3.63	3.13	2.13	180-015-202-011
	Female	4815FE-ND◊	3.50	3.02	2.06	180-015-203L011
26	Male	4826M-ND	11.51	9.93	6.75	180-026-102-011
	Male	4826ME-ND◊	8.31	7.17	4.88	180-026-103L011
	Female	4826F-ND	9.11	7.85	5.34	180-026-202-011
	Female	4826FE-ND◊	7.41	6.39	4.35	180-026-203L011
44	Male	4844M-ND	10.21	8.80	5.99	180-044-102-011
	Male	4844ME-ND◊	9.84	8.49	5.77	180-044-103L011
	Female	4844F-ND	11.69	10.08	6.86	180-044-202-011
	Female	4844FE-ND◊	11.26	9.71	6.61	180-044-203L011
62	Male	4862M-ND	12.53	10.80	7.35	180-062-102-011
	Male	4862ME-ND◊	12.03	10.37	7.05	180-062-103L011
	Female	4862F-ND	17.63	15.20	10.34	180-062-202-011
	Female	4862FE-ND◊	13.49	11.63	7.91	180-062-203L011
78	Male	4878M-ND	17.63	15.20	10.34	180-078-102-011
	Male	4878ME-ND◊	16.97	14.63	9.95	180-078-103L011
	Female	4878F-ND	18.42	15.88	10.80	180-078-202-011
	Female	4878FE-ND◊	11.84	10.21	6.95	180-078-203L011
Solder Cup with .250" Clinch Nuts, Board Side						
15	Male	5815M-ND	3.28	2.83	1.93	180-015-102-021
	Male	5815ME-ND◊	3.16	2.72	1.85	180-015-103L021
	Female	5815F-ND	3.63	3.13	2.13	180-015-202-021
	Female	5815FE-ND◊	3.50	3.02	2.06	180-015-203L021
26	Male	5826M-ND	11.51	9.93	6.75	180-026-102-021
	Male	5826ME-ND◊	8.31	7.17	4.88	180-026-103L021
	Female	5826F-ND	9.11	7.85	5.34	180-026-202-021
	Female	5826FE-ND◊	7.41	6.39	4.35	180-026-203L021
44	Male	5844M-ND	10.21	8.80	5.99	180-044-102-021
	Male	5844ME-ND◊	9.84	8.49	5.77	180-044-103L021
	Female	5844F-ND	11.69	10.08	6.86	180-044-202-021
	Female	5844FE-ND◊	11.26	9.71	6.61	180-044-203L021
62	Male	5862M-ND	12.53	10.80	7.35	180-062-102-021
	Male	5862ME-ND◊	12.03	10.37	7.05	180-062-103L021
	Female	5862F-ND	17.63	15.20	10.34	180-062-202-021
	Female	5862FE-ND◊	13.49	11.63	7.91	180-062-203L021
78	Male	5878M-ND	17.63	15.20	10.34	180-078-102-021
	Male	5878ME-ND◊	16.97	14.63	9.95	180-078-103L021
	Female	5878F-ND	18.42	15.88	10.80	180-078-202-021
	Female	5878FE-ND◊	11.84	10.21	6.95	180-078-203L021
Solder Cup with .250" Clinch Nuts, Mating Side						
15	Male	6815M-ND	3.28	2.83	1.93	180-015-102-031
	Male	6815ME-ND◊	3.16	2.72	1.85	180-015-103L031
	Female	6815FE-ND◊	3.50	3.02	2.06	180-015-203L031
26	Male	6826M-ND	11.51	9.93	6.75	180-026-102-031
	Male	6826ME-ND◊	8.31	7.17	4.88	180-026-103L031
	Female	6826FE-ND◊	7.41	6.39	4.35	180-026-203L031
44	Male	6844M-ND	10.21	8.80	5.99	180-044-102-031
	Male	6844ME-ND◊	9.84	8.49	5.77	180-044-103L031
	Female	6844F-ND	11.69	10.08	6.86	180-044-202-031
	Female	6844FE-ND◊	11.26	9.71	6.61	180-044-203L031
62	Male	6862M-ND	12.53	10.80	7.35	180-062-102-031
	Male	6862ME-ND◊	12.03	10.37	7.05	180-062-103L031
	Female	6862F-ND	17.63	15.20	10.34	180-062-202-031
	Female	6862FE-ND◊	13.49	11.63	7.91	180-062-203L031
78	Male	6878M-ND	17.63	15.20	10.34	180-078-102-031
	Male	6878ME-ND◊	16.97	14.63	9.95	180-078-103L031
	Female	6878F-ND	18.42	15.88	10.80	180-078-202-031
	Female	6878FE-ND◊	11.84	10.21	6.95	180-078-203L031
Dip Solder High Density						
15	Male	180-15M-ND	2.38	2.05	1.40	180-015-112-001
	Male	180-15ME-ND◊	2.36	2.04	1.39	180-015-113R001
	Female	180-15F-ND	2.00	1.73	1.18	180-015-212-001
	Female	180-15FE-ND◊	1.98	1.71	1.16	180-015-213R001
26	Male	180-26M-ND	3.68	3.18	2.16	180-026-112-001
	Male	180-26ME-ND◊	3.64	3.14	2.14	180-026-113R001
	Female	180-26F-ND	4.18	3.60	2.45	180-026-212-001
	Female	180-26FE-ND◊	4.12	3.55	2.42	180-026-213R001
44	Male	180-44M-ND	6.55	5.65	3.85	180-044-112-001
	Male	180-44ME-ND◊	6.48	5.59	3.80	180-044-113R001
	Female	180-44F-ND	6.53	5.63	3.83	180-044-212-001
	Female	180-44FE-ND◊	6.44	5.55	3.78	180-044-213R001
62	Male	180-62M-ND	8.90	7.68	5.22	180-062-112-001
	Male	180-62ME-ND◊	8.80	7.59	5.17	180-062-113R001
	Female	180-62F-ND	9.02	7.78	5.29	180-062-212-001
	Female	180-62FE-ND◊	8.90	7.68	5.22	180-062-213R001
78	Male	180-78ME-ND◊	12.92	11.14	7.58	180-078-113R001
	Female	180-78F-ND	12.76	11.00	7.48	180-078-212-001
	Female	180-78FE-ND◊	12.60	10.87	7.39	180-078-213R001
Dip Solder High Density w/ .065" Clinch Nuts, Board Side						
15	Male	7815M-ND	3.48	3.00	2.04	180-015-112-011
	Male	7815ME-ND◊	3.57	3.08	2.10	180-015-113R011
	Female	7815FE-ND◊	3.16	2.73	1.86	180-015-213R011
26	Male	7826M-ND	4.90	4.23	2.88	180-026-112-011
	Male	7826ME-ND◊	5.01	4.32	2.94	180-026-113R011
	Female	7826F-ND	5.45	4.70	3.20	180-026-212-011
	Female	7826FE-ND◊	5.55	4.79	3.26	180-026-213R011
44	Male	7844M-ND	8.06	6.95	4.73	180-044-112-011
	Male	7844ME-ND◊	8.13	7.02	4.77	180-044-113R011
	Female	7844F-ND	8.03	6.93	4.71	180-044-212-011
	Female	7844FE-ND◊	8.13	7.02	4.77	180-044-213R011
62	Male	7862M-ND	10.64	9.18	6.24	180-062-112-011
	Male	7862ME-ND◊	10.75	9.27	6.31	180-062-113R011
	Female	7862F-ND	10.79	9.30	6.33	180-062-212-011
	Female	7862FE-ND◊	10.88	9.38	6.38	180-062-213R011
78	Male	7878ME-ND◊	15.31	13.20	8.98	180-078-113R011
	Female	7878F-ND	14.88	12.83	8.73	180-078-212-011
	Female	7878FE-ND◊	14.99	12.93	8.79	180-078-213R011
Dip Solder High Density w/ .250" Clinch Nuts, Board Side						
15	Male	8815M-ND	3.48	3.00	2.04	180-015-112-021
	Male	8815ME-ND◊	3.57	3.08	2.10	180-015-113R021
	Female	8815F-ND	3.07	2.65	1.81	180-015-212-021
	Female	8815FE-ND◊	3.16	2.73	1.86	180-015-213R021
26	Male	8826M-ND	4.90	4.23	2.88	180-026-112-021
	Male	8826ME-ND◊	5.01	4.32	2.94	180-026-113R021
	Female	8826F-ND	5.45	4.70	3.20	180-026-212-021
	Female	8826FE-ND◊	5.55	4.79	3.26	180-026-213R021
44	Male	8844M-ND	8.06	6.95	4.73	180-044-112-021
	Male	8844ME-ND◊	8.13	7.02	4.77	180-044-113R021
	Female	8844F-ND	8.03	6.93	4.71	180-044-212-021
	Female	8844FE-ND◊	8.13	7.02	4.77	180-044-213R021
62	Male	8862M-ND	10.64	9.18	6.24	180-062-112-021
	Male	8862ME-ND◊	10.75	9.27	6.31	180-062-113R021
	Female	8862F-ND	10.79	9.30	6.33	180-062-212-021
	Female	8862FE-ND◊	10.88	9.38	6.38	180-062-213R021
78	Male	8878M-ND	15.23	13.13	8.93	180-078-112-021
	Male	8878ME-ND◊	15.31	13.20	8.98	180-078-113R021
	Female	8878F-ND	14.88	12.83	8.73	180-078-212-021
	Female	8878FE-ND◊	15.31	13.20	8.98	180-078-213R021
Dip Solder High Density w/ .250" Clinch Nuts, Mating Side						
15	Male	9815M-ND	3.48	3.00	2.04	180-015-112-031
	Male	9815ME-ND◊	3.57	3.08	2.10	180-015-113R031
	Female	9815F-ND	3.07	2.65	1.81	180-015-212-031
	Female	9815FE-ND◊	3.16	2.73	1.86	180-015-213R031
26	Male	9826M-ND	4.90	4.23	2.88	180-026-112-031
	Male	9826ME-ND◊	5.01	4.32	2.94	180-026-113R031
	Female	9826F-ND	5.45	4.70	3.20	180-026-212-031
	Female	9826FE-ND◊	5.55	4.79	3.26	180-026-213R031
44	Male	9844M-ND	8.06	6.95	4.73	180-044-112-031
	Male	9844ME-ND◊	8.13	7.02	4.77	180-044-113R031
	Female	9844F-ND	8.03	6.93	4.71	180-044-212-031
	Female	9844FE-ND◊	8.13	7.02	4.77	180-044-213R031
62	Male	9862M-ND	10.64	9.18	6.24	180-062-112-031
	Male	9862ME-ND◊	10.75	9.27	6.31	180-062-113R031
	Female	9862F-ND	10.79	9.30	6.33	180-062-212-031
	Female	9862FE-ND◊	10.88	9.38	6.38	180-062-213R031
78	Male	9878M-ND	15.23	13.13	8.93	180-078-112-031
	Male	9878ME-ND◊	15.31	13.20	8.98	180-078-113R031
	Female	9878F-ND	14.88	12.83	8.73	180-078-212-031
	Female	9878FE-ND◊	14.99	12.93	8.79	180-078-213R031

◊ ***NEW!*** *RoHS Compliant*

High Density 90° PC Mount D-Sub Connector 181 Series:

SPECIFICATIONS:

• **Contact Rating:** 5 Amps • **Dielectric Strength:** 1000V AC RMS • **Insulation Resistance:** 1000MΩ • **Contact Material:** Phosphor Bronze • **Contact Finish:** Gold flash over Nickel • **Operating Temperature:** -55°C ~ 150°C • **Shell Material:** Steel, Tin Plated • **Insulations Material:** Glass-Filled Polyester (UL 94V-0) • **Gender:** Receptacle (female)

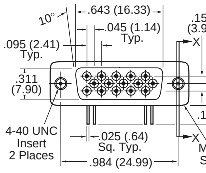

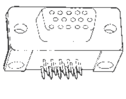

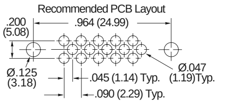

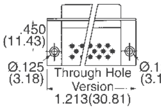

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
181 Series (.350" Footprint)						
15	Female	815RF-ND	2.98	2.57	1.75	181-015-212-171
26	Female	826RF-ND	8.45	7.29	4.96	181-026-212-171
62	Female	862RF-ND	12.17	10.50	7.14	181-062-212-171
NEW! 181 Series (.350" Footprint) – RoHS Compliant NEW!						
15	Female	815RFE-ND	3.27	2.83	1.92	181-015-213R171
26	Female	826RFE-ND	9.06	7.82	5.32	181-026-213R171
44	Female	844RFE-ND	9.79	8.44	5.74	181-044-213R171
62	Female	862RFE-ND	13.68	11.80	8.02	181-062-213R171

NorComp

Right Angle D-Sub Connectors

173, 173E, 174, 174E, 175 and 176 Series

Materials:

- **Shell:** Steel, zinc plated with yellow chromate
- **Insulator:** Glass-filled thermoplastic, UL rated 94V-0
- **Machined Contacts: Male:** Brass; **Female:** Phosphor bronze
- **Plating:** Gold flash on entire contact

Connector Size	Dimensions (Inch)		
	A	B	C
9	1.213	.984	0.494
15	1.541	1.312	0.494
25	2.088	1.852	0.494
37	2.729	2.500	0.494
50	2.635	2.406	0.605

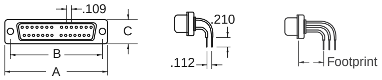

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
173E Series (.283” Footprint) - Yellow Chromate						
9	Male	1173-09ME-ND	3.48	3.00	2.04	173-E09-111-001
	Female	1173-09FE-ND	4.64	4.00	2.72	173-E09-211-001
15	Male	1173-15ME-ND	5.10	4.40	3.00	173-E15-111-001
	Female	1173-15FE-ND	6.99	6.03	4.10	173-E15-211-001
25	Male	1173-25ME-ND	7.60	6.55	4.46	173-E25-111-001
	Female	1173-25FE-ND	10.93	9.43	6.41	173-E25-211-001
37	Male	1173-37ME-ND	10.47	9.03	6.14	173-E37-111-001
	Female	1173-37FE-ND	15.54	13.40	9.12	173-E37-211-001
50	Male	1173-50ME-ND	21.23	18.30	12.45	173-E50-111-001
	Female	1173-50FE-ND	23.14	19.95	13.57	173-E50-211-001
173E Series (.283” Footprint) - Tin						
9	Male	1173-109ME-ND	3.16	2.73	1.86	173-E09-112-001
	Female	1173-109FE-ND	4.21	3.63	2.47	173-E09-212-001
15	Male	1173-115ME-ND	4.64	4.00	2.72	173-E15-112-001
	Female	1173-115FE-ND	6.35	5.48	3.73	173-E15-212-001
25	Male	1173-125ME-ND	6.90	5.95	4.05	173-E25-112-001
	Female	1173-125FE-ND	9.95	8.58	5.84	173-E25-212-001
37	Male	1173-137ME-ND	9.51	8.20	5.58	173-E37-112-001
	Female	1173-137FE-ND	14.12	12.18	8.28	173-E37-212-001
50	Male	1173-150ME-ND	21.23	18.30	12.45	173-E50-112-001
	Female	1173-150FE-ND	23.14	19.95	13.57	173-E50-212-001
173 Series (.283” Footprint) - Yellow Chromate*						
37	Male	173-37M-ND	13.28	11.45	7.79	173-037-111-141
	Female	173-37F-ND	18.85	16.25	11.05	173-037-211-141
173E Series (.283” Footprint) - Yellow Chromate*						
9	Male	173-09ME-ND	5.08	4.38	2.98	173-E09-111-141
	Male	173-09MEA-ND◊	5.58	4.82	3.28	173-E09-111R141
	Female	173-09FE-ND	6.24	5.38	3.66	173-E09-211-141
	Female	173-09FEA-ND◊	6.86	5.92	4.03	173-E09-211R141
15	Male	173-15ME-ND	6.70	5.78	3.93	173-E15-111-141
	Male	173-15MEA-ND◊	6.79	5.86	3.99	173-E15-111R141
	Female	173-15FE-ND	8.58	7.40	5.04	173-E15-211-141
	Female	173-15FEA-ND◊	9.44	8.14	5.54	173-E15-211R141
25	Male	173-25ME-ND	9.19	7.93	5.39	173-E25-111-141
	Male	173-25MEA-ND◊	10.11	8.72	5.93	173-E25-111R141
	Female	173-25FE-ND	12.53	10.80	7.35	173-E25-211-141
	Female	173-25FEA-ND◊	13.78	11.88	8.08	173-E25-211R141
37	Male	173-37ME-ND	12.06	10.40	7.08	173-E37-111-141
	Male	173-37MEA-ND◊	13.27	11.44	7.78	173-E37-111R141
	Female	173-37FE-ND	17.14	14.78	10.05	173-E37-211-141
	Female	173-37FEA-ND◊	18.85	16.26	11.06	173-E37-211R141
50	Male	173-50MEA-ND◊	25.46	21.95	14.93	173-E50-111R141
	Female	173-50FEA-ND◊	26.86	23.16	15.75	173-E50-211R141
173 Series (.283” Footprint) - Tin*						
9	Male	173-109MA-ND◊	5.17	4.46	3.03	173-009-112R141
	Female	173-109FA-ND◊	7.02	6.05	4.12	173-009-212R141
15	Male	173-115M-ND	6.87	5.93	4.03	173-015-112-141
	Male	173-115MA-ND◊	7.56	6.52	4.44	173-015-112R141
	Female	173-115FA-ND◊	9.60	8.28	5.63	173-015-212R141
25	Male	173-125MA-ND◊	10.27	8.86	6.03	173-025-112R141
	Female	173-125F-ND	12.70	10.95	7.45	173-025-212-141
	Female	173-125FA-ND◊	13.97	12.05	8.20	173-025-212R141
37	Male	173-137M-ND	12.21	10.53	7.16	173-037-112-141
	Male	173-137MA-ND◊	13.43	11.58	7.88	173-037-112R141
	Female	173-137F-ND	17.28	14.90	10.14	173-037-212-141
	Female	173-137FA-ND◊	19.01	16.39	11.15	173-037-212R141
50	Male	173-150MA-ND◊	28.01	24.15	16.42	173-050-112R141
	Female	173-150FA-ND◊	29.54	25.47	17.32	173-050-212R141
173E Series (.283” Footprint) - Tin*						
9	Male	173-109ME-ND	4.76	4.10	2.79	173-E09-112-141
	Male	173-109MEA-ND◊†	5.23	4.51	3.07	173-E09-113R141
	Female	173-109FE-ND	5.80	5.00	3.40	173-E09-212-141
	Female	173-109FEA-ND◊†	6.38	5.50	3.74	173-E09-213R141
15	Male	173-115ME-ND	6.24	5.38	3.66	173-E15-112-141
	Male	173-115MEA-ND◊†	6.86	5.92	4.03	173-E15-113R141
	Female	173-115FE-ND	7.95	6.85	4.66	173-E15-212-141
	Female	173-115FEA-ND◊†	8.74	7.54	5.13	173-E15-213R141
25	Male	173-125ME-ND	8.50	7.33	4.99	173-E25-112-141
	Male	173-125MEA-ND◊†	9.35	8.06	5.48	173-E25-113R141
	Female	173-125FE-ND	11.54	9.95	6.77	173-E25-212-141
	Female	173-125FEA-ND◊†	12.70	10.95	7.45	173-E25-213R141
37	Male	173-137ME-ND	11.11	9.58	6.52	173-E37-112-141
	Male	173-137MEA-ND◊†	12.22	10.54	7.17	173-E37-113R141
	Female	173-137FE-ND	15.72	13.55	9.22	173-E37-212-141
	Female	173-137FEA-ND◊†	17.29	14.91	10.14	173-E37-213R141
50	Male	173-150MEA-ND◊†	25.46	21.95	14.93	173-E50-113R141
	Female	173-150FEA-ND◊†	26.86	23.16	15.75	173-E50-213R141
174E Series (.370” Footprint) - Yellow Chromate						
9	Male	1174-09ME-ND	3.42	2.95	2.01	174-E09-111-001
	Female	1174-09FE-ND	4.55	3.93	2.67	174-E09-211-001
15	Male	1174-15ME-ND	6.38	5.50	3.74	174-E15-111-001
	Female	1174-15FE-ND	6.55	5.65	3.85	174-E15-211-001
25	Male	1174-25ME-ND	8.87	7.65	5.21	174-E25-111-001
	Female	1174-25FE-ND	11.48	9.90	6.74	174-E25-211-001
37	Male	1174-37ME-ND	10.21	8.80	5.99	174-E37-111-001
	Female	1174-37FE-ND	13.02	11.23	7.64	174-E37-211-001
50	Male	1174-50ME-ND	11.80	10.18	6.92	174-E50-111-001
	Female	1174-50FE-ND	21.23	18.30	12.45	174-E50-211-001
174E Series (.370” Footprint) - Tin						
9	Male	1174-109ME-ND	3.10	2.68	1.82	174-E09-112-001
	Female	1174-109FE-ND	4.15	3.58	2.44	174-E09-212-001
15	Male	1174-115ME-ND	5.80	5.00	3.40	174-E15-112-001
	Female	1174-115FE-ND	5.95	5.13	3.49	174-E15-212-001
25	Male	1174-125ME-ND	8.06	6.95	4.73	174-E25-112-001
	Female	1174-125FE-ND	10.44	9.00	6.12	174-E25-212-001
37	Male	1174-137ME-ND	9.28	8.00	5.44	174-E37-112-001
	Female	1174-137FE-ND	11.80	10.18	6.92	174-E37-212-001
50	Male	1174-150ME-ND	21.23	18.30	12.45	174-E50-112-001
	Female	1174-150FE-ND	23.14	19.95	13.57	174-E50-212-001
174E Series (.370” Footprint) - Yellow Chromate*						
9	Male	174-09ME-ND	5.02	4.33	2.95	174-E09-111-141
	Male	174-09MEA-ND◊	5.52	4.76	3.24	174-E09-111R141
	Female	174-09FE-ND	6.15	5.30	3.61	174-E09-211-141
	Female	174-09FEA-ND	6.76	5.83	3.97	174-E09-211R141
15	Male	174-15ME-ND	7.98	6.88	4.68	174-E15-111-141
	Male	174-15MEA-ND◊	8.77	7.57	5.15	174-E15-111R141
	Female	174-15FE-ND	8.15	7.03	4.78	174-E15-211-141
	Female	174-15FEA-ND◊	8.96	7.73	5.26	174-E15-211R141
25	Male	174-25ME-ND	10.47	9.03	6.14	174-E25-111-141
	Male	174-25MEA-ND◊	11.52	9.93	6.76	174-E25-111R141
	Female	174-25FE-ND	13.08	11.28	7.67	174-E25-211-141
	Female	174-25FEA-ND◊	14.39	12.41	8.44	174-E25-211R141
37	Male	174-37ME-ND	11.80	10.18	6.92	174-E37-111-141
	Male	174-37MEA-ND◊	12.98	11.20	7.62	174-E37-111R141
	Female	174-37FE-ND	14.62	12.60	8.57	174-E37-211-141
	Female	174-37FEA-ND◊	16.08	13.86	9.43	174-E37-211R141
50	Male	174-50ME-ND	13.40	11.55	7.86	174-E50-111-141
	Male	174-50MEA-ND◊	14.74	12.71	8.64	174-E50-111R141
	Female	174-50FE-ND	23.14	19.95	13.57	174-E50-211-141
	Female	174-50FEA-ND◊	25.46	21.95	14.93	174-E50-211R141
174 Series (.370” Footprint) - Tin*						
9	Male	174-109MA-ND◊	5.68	4.90	3.33	174-009-112R141
	Female	174-109FA-ND◊	6.95	6.00	4.08	174-009-212R141
15	Male	174-115M-ND	8.15	7.03	4.78	174-015-112-141
	Male	174-115MA-ND◊	8.96	7.73	5.26	174-015-112R141
	Female	174-115FA-ND◊	9.12	7.87	5.35	174-015-212R141
25	Male	174-125MA-ND◊	11.68	10.07	6.85	174-025-112R141
	Female	174-125FA-ND◊	14.58	12.57	8.55	174-025-212R141
37	Male	174-137M-ND	11.98	10.33	7.03	174-037-112-141
	Male	174-137MA-ND◊	13.17	11.36	7.73	174-037-112R141
	Female	174-137F-ND	14.73	12.70	8.64	174-037-212-141
	Female	174-137FA-ND◊	16.21	13.97	9.50	174-037-212R141
50	Male	174-150MA-ND◊	28.01	24.15	16.42	174-050-112R141
	Female	174-150FA-ND◊	29.54	25.47	17.32	174-050-212R141
174E Series (.370” Footprint) - Tin*						
9	Male	174-109ME-ND	4.70	4.05	2.76	174-E09-112-141
	Male	174-109MEA-ND◊†	5.17	4.46	3.03	174-E09-113R141
	Female	174-109FE-ND	5.74	4.95	3.37	174-E09-212-141
	Female	174-109FEA-ND◊†	6.32	5.45	3.71	174-E09-213R141
15	Male	174-115ME-ND	7.40	6.38	4.34	174-E15-112-141
	Male	174-115MEA-ND◊†	8.13	7.02	4.77	174-E15-113R141
	Female	174-115FE-ND	7.54	6.50	4.42	174-E15-212-141
	Female	174-115FEA-ND◊†	8.29	7.15	4.87	174-E15-213R141
25	Male	174-125ME-ND	9.66	8.33	5.67	174-E25-112-141
	Male	174-125MEA-ND◊†	10.53	9.08	6.18	174-E25-113R141
	Female	174-125FE-ND	12.04	10.38	7.06	174-E25-212-141
	Female	174-125FEA-ND◊†	13.24	11.42	7.77	174-E25-213R141
37	Male	174-137ME-ND	10.88	9.38	6.38	174-E37-112-141
	Male	174-137MEA-ND◊†	11.96	10.32	7.02	174-E37-113R141
	Female	174-137FE-ND	13.40	11.55	7.86	174-E37-212-141
	Female	174-137FEA-ND◊†	14.74	12.71	8.64	174-E37-213R141
50	Male	174-150ME-ND	23.14	19.95	13.57	174-E50-112-141
	Male	174-150MEA-ND◊†	25.46	21.95	14.93	174-E50-113R141
	Female	174-150FE-ND	24.42	21.05	14.32	174-E50-212-141
	Female	174-150FEA-ND◊†	26.86	23.16	15.75	174-E50-213R141
175 Series (.454” Footprint) - Tin ‡						
9	Male	175-109MA-ND◊	5.77	4.98	3.39	175-009-112R151
	Female	175-109FA-ND◊	13.53	11.66	7.93	175-009-212R151
15	Male	175-115MA-ND◊	6.54	5.64	3.84	175-015-112R151
	Female	175-115F-ND	15.75	13.58	9.24	175-015-212-151
	Female	175-115FA-ND◊	15.76	13.59	9.24	175-015-212R151
25	Male	175-125MA-ND◊	8.04	6.93	4.72	175-025-112R151
	Female	175-125FA-ND◊	19.78	17.05	11.60	175-025-212R151
37	Male	175-137M-ND	9.37	8.08	5.50	175-037-112-151
	Male	175-137MA-ND◊	9.38	8.09	5.50	175-037-112R151
	Female	175-137F-ND	17.17	14.80	10.07	175-037-212-151
	Female	175-137FA-ND◊	17.16	14.80	10.07	175-037-212R151
176 Series (.545” Footprint) - Tin ‡						
9	Female	176-109F-ND	11.37	9.80	6.67	176-009-212-151
15	Male	176-115M-ND	6.12	5.28	3.59	176-015-112-151
	Female	176-115F-ND	12.30	10.60	7.21	176-015-212-151
25	Female	176-125F-ND	15.89	13.70	9.32	176-025-212-151

◊ ***NEW!** RoHS Compliant*   * Short Bracket with 4-40 Screw Lock
† Nickel Shell   ‡ Long Bracket with 4-40 Screw Lock

177 Series

Materials:

- **Shell:** Steel, zinc with tin plating; or plastic
- **Insulator:** Glass-filled thermoplastic, UL rated 94V-0
- **Stamped Contacts:** Cupronickel alloys
- **Plating:** Gold over nickel on mating area, tin/lead on solder tails

Connector Size	Dimensions (Inch)		
	A	B	C
9	1.228	0.984	0.436
15	1.556	1.312	0.763
25	2.100	1.852	1.308
37	2.742	2.500	1.962

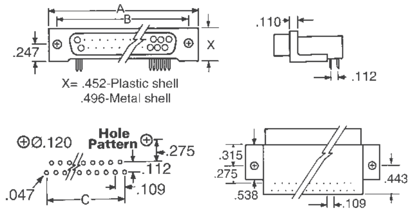

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
.590" Footprint (Metal Shell with Inside Ground Straps and.120" Diameter Hole)						
9	Male	177-709M-ND	12.70	10.95	7.45	177-009-112-161
	Female	177-709F-ND	7.83	6.75	4.59	177-009-212-161
15	Male	177-715M-ND	14.50	12.50	8.50	177-015-112-161
	Female	177-715F-ND	14.91	12.85	8.74	177-015-212-161
25	Male	177-725M-ND	9.28	8.00	5.44	177-025-112-161
	Female	177-725F-ND	14.79	12.75	8.67	177-025-212-161
37	Male	177-737M-ND	19.02	16.40	11.16	177-037-112-161
	Female	177-737F-ND	17.57	15.15	10.31	177-037-212-161
.590" Footprint (Metal Shell with Inside Ground Straps and 4-40 Flush Insert)						
9	Male	309M-ND	6.44	5.55	3.78	177-009-112-171
	Female	309F-ND	9.31	8.03	5.46	177-009-212-171
15	Male	315M-ND	5.80	5.00	3.40	177-015-112-171
	Female	315F-ND	6.38	5.50	3.74	177-015-212-171
25	Male	325M-ND	11.25	9.70	6.60	177-025-112-171
	Female	325F-ND	7.71	6.65	4.53	177-025-212-171
37	Female	337F-ND	12.18	10.50	7.14	177-037-212-171

(Continued)

Right Angle D-Sub Connectors *(Cont.)*

177 Series *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
.590" Footprint (Metal Shell with Inside Ground Straps and 4-40 Hex Standoff)						
9	Male	177-809M-ND	5.22	4.50	3.06	177-009-112-181
	Female	177-809F-ND	5.74	4.95	3.37	177-009-212-181
15	Male	177-815M-ND	6.26	5.40	3.68	177-015-112-181
	Female	177-815F-ND	6.67	5.75	3.91	177-015-212-181
25	Male	177-825M-ND	7.19	6.20	4.22	177-025-112-181
	Female	177-825F-ND	7.95	6.85	4.66	177-025-212-181
37	Male	177-837M-ND	8.70	7.50	5.10	177-037-112-181
	Female	177-837F-ND	10.15	8.75	5.95	177-037-212-181
.590" Footprint (Plastic Shell with .120" Diameter Hole)						
9	Male	177-509M-ND	4.84	4.18	2.84	177-009-110-061
	Female	177-509F-ND	6.00	5.18	3.52	177-009-210-061
15	Male	177-515M-ND	6.41	5.53	3.76	177-015-110-061
	Female	177-515F-ND	8.44	7.28	4.95	177-015-210-061
25	Male	177-525M-ND	5.19	4.48	3.05	177-025-110-061
	Female	177-525F-ND	7.83	6.75	4.59	177-025-210-061
37	Male	177-537M-ND	6.41	5.53	3.76	177-037-110-061
	Female	177-537F-ND	12.18	10.50	7.14	177-037-210-061
.590" Footprint (Plastic Shell with 4-40 Flush Insert)						
9	Male	409M-ND	6.84	5.90	4.02	177-009-110-071
	Female	409F-ND	5.33	3.90	3.18	177-009-210-071
15	Male	415M-ND	8.15	7.03	4.78	177-015-110-071
	Female	415F-ND	5.48	4.73	3.22	177-015-210-071
25	Male	425M-ND	6.29	5.43	3.69	177-025-110-071
	Female	425F-ND	9.77	8.43	5.73	177-025-210-071
37	Male	437M-ND	7.60	6.55	4.46	177-037-110-071
	Female	437F-ND	8.38	7.23	4.92	177-037-210-071
.590" Footprint (Plastic Shell with 4-40 Hex Standoff)						
9	Male	177-609M-ND	5.92	5.10	3.47	177-009-110-081
	Female	177-609F-ND	5.02	4.33	2.95	177-009-210-081
15	Male	177-615M-ND	5.22	4.50	3.06	177-015-110-081
	Female	177-615F-ND	11.37	9.80	6.67	177-015-210-081
25	Male	177-625M-ND	6.55	5.65	3.85	177-025-110-081
	Female	177-625F-ND	9.57	8.25	5.61	177-025-210-081
37	Male	177-637M-ND	7.63	6.58	4.48	177-037-110-081
	Female	177-637F-ND	8.79	7.58	5.16	177-037-210-081

182 Economy Series

Materials:

- **Shell:** Steel, tin plating
- **Insulator:** Glass-filled thermoplastic, UL rated 94V-0
- **Stamped Contacts:** Brass
- **Plating:** Gold flash on entire contact

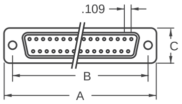

Connector Size	Dimensions (Inch) A	B	C
9	1.213	0.984	0.494
15	1.541	1.312	0.494
25	2.088	1.852	0.494
37	2.729	2.500	0.494

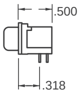

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
.318" Footprint (Metal Shell with Inside Ground Straps and .120" Diameter Hole)						
9	Male	182-709M-ND	1.83	1.58	1.08	182-009-112-161
	Male	182-709ME-ND◊†	1.28	1.10	.75	182-009-113R161
	Female	182-709F-ND	1.91	1.65	1.13	182-009-212-161
	Female	182-709FE-ND◊†	1.34	1.16	.79	182-009-213R161
15	Male	182-715M-ND	2.12	1.83	1.25	182-015-112-161
	Male	182-715ME-ND◊†	1.47	1.27	.87	182-015-113R161
	Female	182-715F-ND	2.29	1.98	1.35	182-015-212-161
	Female	182-715FE-ND◊†	1.60	1.38	.94	182-015-213R161
25	Male	182-725M-ND	2.61	2.25	1.53	182-025-112-161
	Male	182-725ME-ND◊†	1.82	1.57	1.07	182-025-113R161
	Female	182-725FE-ND◊†	1.88	1.63	1.11	182-025-213R161
37	Male	182-737M-ND	3.65	3.15	2.15	182-037-112-161
	Male	182-737ME-ND◊†	2.55	2.20	1.50	182-037-113R161
	Female	182-737F-ND	3.80	3.28	2.23	182-037-212-161
	Female	182-737FE-ND◊†	2.65	2.29	1.56	182-037-213R161
.318" Footprint (Metal Shell with Inside Ground Straps and 4-40 Flush Insert)						
9	Male	182-909M-ND	1.83	1.58	1.08	182-009-112-171
	Male	182-909ME-ND◊†	1.28	1.10	.75	182-009-113R171
	Female	182-909F-ND	1.91	1.65	1.13	182-009-212-171
	Female	182-909FE-ND◊†	1.34	1.16	.79	182-009-213R171
15	Male	182-915M-ND	2.12	1.83	1.25	182-015-112-171
	Male	182-915ME-ND◊†	1.47	1.27	.87	182-015-113R171
	Female	182-915F-ND	2.29	1.98	1.35	182-015-212-171
	Female	182-915FE-ND◊†	1.60	1.38	.94	182-015-213R171
25	Male	182-925M-ND	2.61	2.25	1.53	182-025-112-171
	Male	182-925ME-ND◊†	1.82	1.57	1.07	182-025-113R171
	Female	182-925FE-ND◊†	1.88	1.63	1.11	182-025-213R171
37	Male	182-937M-ND	3.65	3.15	2.15	182-037-112-171
	Male	182-937ME-ND◊†	2.55	2.20	1.50	182-037-113R171
	Female	182-937FE-ND◊†	2.65	2.29	1.56	182-037-213R171
.318" Footprint (Metal Shell with Inside Ground Straps and 4-40 Hex Standoff)						
9	Male	182-809M-ND	1.83	1.58	1.08	182-009-112-181
	Male	182-809ME-ND◊†	1.28	1.10	.75	182-009-113R181
	Female	182-809F-ND	1.91	1.65	1.13	182-009-212-181
	Female	182-809FE-ND◊†	1.34	1.16	.79	182-009-213R181
15	Male	182-815M-ND	2.20	1.90	1.30	182-015-112-181
	Male	182-815ME-ND◊†	1.53	1.32	.90	182-015-113R181
	Female	182-815F-ND	2.47	2.13	1.45	182-015-212-181
	Female	182-815FE-ND◊†	1.72	1.49	1.01	182-015-213R181
25	Male	182-825M-ND	2.78	2.40	1.64	182-025-112-181
	Male	182-825ME-ND◊†	1.95	1.68	1.15	182-025-113R181
	Female	182-825F-ND	2.87	2.48	1.69	182-025-212-181
	Female	182-825FE-ND◊†	2.01	1.74	1.18	182-025-213R181
37	Male	182-837M-ND	3.94	3.40	2.32	182-037-112-181
	Male	182-837ME-ND◊†	2.71	2.34	1.59	182-037-113R181
	Female	182-837F-ND	3.97	3.43	2.33	182-037-212-181
	Female	182-837FE-ND◊†	2.78	2.40	1.63	182-037-213R181
.318" Footprint (Metal Shell Fork Board Locks in Front Hole and 4-40 Flush Insert)						
9	Male	182-09M-ND	1.60	1.38	.94	182-009-112-531
	Male	182-09ME-ND◊†	1.12	.97	.66	182-009-113R531
	Female	182-09F-ND	1.68	1.45	.99	182-009-212-531
	Female	182-09FE-ND◊†	1.18	1.02	.70	182-009-213R531
15	Male	182-15M-ND	1.83	1.58	1.08	182-015-112-531
	Male	182-15ME-ND◊†	1.28	1.10	.75	182-015-113R531
	Female	182-15F-ND	1.97	1.70	1.16	182-015-212-531
	Female	182-15FE-ND◊†	1.47	1.27	.87	182-015-213R531
25	Male	182-25M-ND	2.12	1.83	1.25	182-025-112-531
	Male	182-25ME-ND◊†	1.47	1.27	.87	182-025-113R531
	Female	182-25F-ND	2.23	1.93	1.31	182-025-212-531
	Female	182-25FE-ND◊†	1.56	1.35	.92	182-025-213R531
37	Male	182-37M-ND	3.51	3.03	2.06	182-037-112-531
	Male	182-37ME-ND◊†	2.46	2.12	1.44	182-037-113R531
	Female	182-37F-ND	3.65	3.15	2.15	182-037-212-531
	Female	182-37FE-ND◊†	2.55	2.20	1.50	182-037-213R531

◊ ***NEW!*** ***RoHS Compliant*** † Nickel Shell

183 Economy Series

Materials:

- **Shell:** Steel, tin plating
- **Insulator:** Glass-filled thermoplastic, UL rated 94V-0
- **Stamped Contacts:** Brass
- **Plating:** Gold flash on entire contact

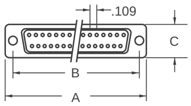

Connector Size	Dimensions (Inch) A	B	C
9	1.213	0.984	0.494
15	1.541	1.312	0.494
25	2.088	1.852	0.494
37	2.729	2.500	0.494

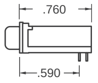

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
.590" Footprint (Metal Shell with Inside Ground Straps and .120" Diameter Hole)						
9	Male	183-709M-ND	1.62	1.40	.96	183-009-112-161
	Male	183-709ME-ND◊†	1.79	1.54	1.05	183-009-113R161
	Female	183-709FE-ND◊†	1.88	1.63	1.11	183-009-213R161
15	Male	183-715M-ND	2.32	2.00	1.36	183-015-112-161
	Male	183-715ME-ND◊†	2.55	2.20	1.50	183-015-113R161
	Female	183-715F-ND	2.41	2.08	1.42	183-015-212-161
	Female	183-715FE-ND◊†	2.65	2.29	1.56	183-015-213R161
25	Male	183-725M-ND	2.78	2.40	1.64	183-025-112-161
	Male	183-725ME-ND◊†	3.06	2.64	1.80	183-025-113R161
	Female	183-725F-ND	2.87	2.48	1.69	183-025-212-161
	Female	183-725FE-ND◊†	3.16	2.73	1.86	183-025-213R161
37	Male	183-737M-ND	4.21	3.63	2.47	183-037-112-161
	Male	183-737ME-ND◊†	4.63	3.99	2.72	183-037-113R161
	Female	183-737F-ND	4.35	3.75	2.55	183-037-212-161
	Female	183-737FE-ND◊†	4.79	4.13	2.81	183-037-213R161
.590" Footprint (Metal Shell with Inside Ground Straps and 4-40 Flush Insert)						
9	Male	183-909M-ND	1.62	1.40	.96	183-009-112-171
	Male	183-909ME-ND◊†	1.79	1.54	1.05	183-009-113R171
	Female	183-909F-ND	1.71	1.48	1.01	183-009-212-171
	Female	183-909FE-ND◊†	1.88	1.63	1.11	183-009-213R171
15	Male	183-915M-ND	2.32	2.00	1.36	183-015-112-171
	Male	183-915ME-ND◊†	2.55	2.20	1.50	183-015-113R171
	Female	183-915F-ND	2.41	2.08	1.42	183-015-212-171
	Female	183-915FE-ND◊†	2.65	2.29	1.56	183-015-213R171
25	Male	183-925ME-ND◊†	3.06	2.64	1.80	183-025-113R171
	Female	183-925F-ND	2.87	2.48	1.69	183-025-212-171
	Female	183-925FE-ND◊†	3.16	2.73	1.86	183-025-213R171
37	Male	183-937M-ND	4.21	3.63	2.47	183-037-112-171
	Male	183-937ME-ND◊†	4.63	3.99	2.72	183-037-113R171
	Female	183-937F-ND	4.35	3.75	2.55	183-037-212-171
	Female	183-937FE-ND◊†	4.79	4.13	2.81	183-037-213R171
.590" Footprint (Metal Shell with Inside Ground Straps and 4-40 Hex Standoff)						
9	Male	183-809ME-ND◊†	2.14	1.85	1.26	183-009-113R181
	Female	183-809F-ND	2.03	1.75	1.19	183-009-212-181
	Female	183-809FE-ND◊†	2.23	1.93	1.31	183-009-213R181
15	Male	183-815M-ND	2.52	2.18	1.48	183-015-112-181
	Male	183-815ME-ND◊†	2.78	2.40	1.63	183-015-113R181
	Female	183-815F-ND	2.64	2.28	1.55	183-015-212-181
	Female	183-815FE-ND◊†	2.90	2.51	1.71	183-015-213R181
25	Male	183-825M-ND	2.90	2.50	1.70	183-025-112-181
	Male	183-825ME-ND◊†	3.19	2.75	1.87	183-025-113R181
	Female	183-825F-ND	2.99	2.58	1.76	183-025-212-181
	Female	183-825FE-ND◊†	3.29	2.84	1.93	183-025-213R181
37	Male	183-837M-ND	4.44	3.83	2.61	183-037-112-181
	Male	183-837ME-ND◊†	4.88	4.21	2.87	183-037-113R181
	Female	183-837F-ND	4.64	4.00	2.72	183-037-212-181
	Female	183-837FE-ND◊†	5.10	4.40	3.00	183-037-213R181
.590" Footprint (Metal Shell Fork Board Locks in Front Hole and 4-40 Flush Insert)						
9	Male	183-09M-ND	1.48	1.28	.87	183-009-112-531
	Male	183-09ME-ND◊†	1.63	1.41	.96	183-009-113R531
	Female	183-09F-ND	1.48	1.28	.87	183-009-212-531
	Female	183-09FE-ND◊†	1.63	1.41	.96	183-009-213R531
15	Male	183-15M-ND	1.94	1.68	1.14	183-015-112-531
	Male	183-15ME-ND◊†	2.14	1.85	1.26	183-015-113R531
	Female	183-15F-ND	2.20	1.90	1.30	183-015-212-531
	Female	183-15FE-ND◊†	2.42	2.09	1.43	183-015-213R531
25	Male	183-25M-ND	2.26	1.95	1.33	183-025-112-531
	Male	183-25ME-ND◊†	2.49	2.15	1.46	183-025-113R531
	Female	183-25F-ND	2.49	2.15	1.47	183-025-212-531
	Female	183-25FE-ND◊†	2.74	2.37	1.61	183-025-213R531
37	Male	183-37M-ND	3.63	3.13	2.13	183-037-112-531
	Male	183-37ME-ND◊†	3.99	3.44	2.34	183-037-113R531
	Female	183-37F-ND	3.63	3.13	2.13	183-037-212-531
	Female	183-37FE-ND◊†	3.99	3.44	2.34	183-037-213R531

◊ ***NEW!*** ***RoHS Compliant*** † Nickel Shell

Dual Port Right Angle D-Sub Connectors

178, 179 and 189 Series

Materials:

- **Shell:** Steel, zinc with tin plating
- **Contacts:** Gold flash over brass plating.
- **Insulator:** Glass-filled thermoplastic, UL 94V-0 rated, black.

Connector Size	Dimensions (Inch) A	B	C
9	1.204	0.984	0.494
15	1.535	1.312	0.494
25	2.078	1.850	0.494
37	2.724	2.500	0.494

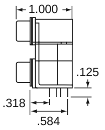

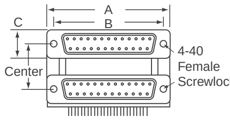

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
178 Series – .750 Centers						
9/9	M/M	1109MM-ND	5.48	4.73	3.22	178-009-613R571
9/9	M/M	1109MME-ND◊	5.58	4.82	3.28	178-009-613R571
15/15	M/M	1115MM-ND	8.24	7.10	4.83	178-015-612-571
15/15	M/M	1115MME-ND◊	8.39	7.24	4.92	178-015-613R571
25/25	M/M	1125MM-ND	8.85	7.63	5.19	178-025-612-571
25/25	M/M	1125MME-ND◊	9.00	7.76	5.28	178-025-613R571
37/37	M/M	1137MM-ND	13.40	11.55	7.86	178-037-612-571
37/37	M/M	1137MME-ND◊	13.65	11.77	8.01	178-037-613R571
9/9	M/F	1109MFE-ND◊	5.58	4.82	3.28	178-009-413R571
15/15	M/F	1115MF-ND	8.24	7.10	4.83	178-015-412-571
15/15	M/F	1115MFE-ND◊	8.39	7.24	4.92	178-015-413R571

◊ ***NEW!*** ***RoHS Compliant*** *(Continued)*

NORCOMP

Dual Port Right Angle D-Sub Connectors

178, 179 and 189 Series *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
25/25	M/F	1125MF-ND	8.85	7.63	5.19	178-025-412-571
25/25	M/F	1125MFE-ND◊	9.00	7.76	5.28	178-025-413R571
37/37	M/F	1137MF-ND	13.40	11.55	7.86	178-037-412-571
37/37	M/F	1137MFE-ND◊	13.65	11.77	8.01	178-037-413R571
9/9	F/F	1109FF-ND	5.48	4.73	3.22	178-009-512-571
9/9	F/F	1109FFE-ND◊	5.58	4.82	3.28	178-009-513R571
15/15	F/F	1115FF-ND	8.24	7.10	4.83	178-015-512-571
15/15	F/F	1115FFE-ND◊	8.39	7.24	4.92	178-015-513R571
25/25	F/F	1125FF-ND	8.85	7.63	5.19	178-025-512-571
25/25	F/F	1125FFE-ND◊	9.00	7.76	5.28	178-025-513R571
37/37	F/F	1137FF-ND	13.40	11.55	7.86	178-037-512-571
37/37	F/F	1137FFE-ND◊	13.65	11.77	8.01	178-037-513R571
9/9	F/M	1109FME-ND◊	5.58	4.82	3.28	178-009-313R571
15/15	F/M	1115FM-ND	8.24	7.10	4.83	178-015-312-571
15/15	F/M	1115FME-ND◊	8.39	7.24	4.92	178-015-313R571
25/25	F/M	1125FM-ND	8.85	7.63	5.19	178-025-312-571
25/25	F/M	1125FME-ND◊	9.00	7.76	5.28	178-025-313R571
37/37	F/M	1137FM-ND	13.40	11.55	7.86	178-037-312-571
37/37	F/M	1137FME-ND◊	13.65	11.77	8.01	178-037-313R571
179 Series – .900 Centers						
9/9	M/M	1209MM-ND	5.48	4.73	3.22	179-009-612-571
9/9	M/M	1209MME-ND◊	5.58	4.82	3.28	179-009-613R571
15/15	M/M	1215MM-ND	8.24	7.10	4.83	179-015-612-571
15/15	M/M	1215MME-ND◊	8.39	7.24	4.92	179-015-613R571
25/25	M/M	1225MM-ND	8.85	7.63	5.19	179-025-612-571
25/25	M/M	1225MME-ND◊	9.00	7.76	5.28	179-025-613R571
37/37	M/M	1237MM-ND	13.40	11.55	7.86	179-037-612-571
37/37	M/M	1237MME-ND◊	13.65	11.77	8.01	179-037-613R571
9/9	M/F	1209MF-ND	5.48	4.73	3.22	179-009-412-571
9/9	M/F	1209MFE-ND◊	5.58	4.82	3.28	179-009-413R571
15/15	M/F	1215MF-ND	8.24	7.10	4.83	179-015-412-571
15/15	M/F	1215MFE-ND◊	8.39	7.24	4.92	179-015-413R571
25/25	M/F	1225MF-ND	8.85	7.63	5.19	179-025-412-571
25/25	M/F	1225MFE-ND◊	9.00	7.76	5.28	179-025-413R571
37/37	M/F	1237MF-ND	13.40	11.55	7.86	179-037-412-571
37/37	M/F	1237MFE-ND◊	13.65	11.77	8.01	179-037-413R571
9/9	F/F	1209FF-ND	5.48	4.73	3.22	179-009-512-571
9/9	F/F	1209FFE-ND◊	5.58	4.82	3.28	179-009-513R571
15/15	F/F	1215FF-ND	8.24	7.10	4.83	179-015-512-571
15/15	F/F	1215FFE-ND◊	8.39	7.24	4.92	179-015-513R571
25/25	F/F	1225FF-ND	8.85	7.63	5.19	179-025-512-571
25/25	F/F	1225FFE-ND◊	9.00	7.76	5.28	179-025-513R571
37/37	F/F	1237FFE-ND◊	13.65	11.77	8.01	179-037-513R571
9/9	F/M	1209FM-ND	5.48	4.73	3.22	179-009-312-571
9/9	F/M	1209FME-ND◊	5.58	4.82	3.28	179-009-313R571
15/15	F/M	1215FM-ND	8.24	7.10	4.83	179-015-312-571
15/15	F/M	1215FME-ND◊	8.39	7.24	4.92	179-015-313R571
25/25	F/M	1225FM-ND	8.85	7.63	5.19	179-025-312-571
25/25	F/M	1225FME-ND◊	9.00	7.76	5.28	179-025-313R571
37/37	F/M	1237FM-ND	13.40	11.55	7.86	179-037-312-571
37/37	F/M	1237FME-ND◊	13.65	11.77	8.01	179-037-313R571
189 Series – .625 Centers						
9/9	M/M	1009MM-ND	5.48	4.73	3.22	189-009-612-571
9/9	M/M	1009MME-ND◊	5.58	4.82	3.28	189-009-613R571
15/15	M/M	1015MM-ND	8.24	7.10	4.83	189-015-612-571
15/15	M/M	1015MME-ND◊	8.39	7.24	4.92	189-015-613R571
25/25	M/M	1025MME-ND◊	9.00	7.76	5.28	189-025-613R571
37/37	M/M	1037MM-ND	13.40	11.55	7.86	189-037-612-571
37/37	M/M	1037MME-ND◊	13.65	11.77	8.01	189-037-613R571
9/9	M/F	1009MFE-ND◊	5.58	4.82	3.28	189-009-413R571
15/15	M/F	1015MF-ND	8.24	7.10	4.83	189-015-412-571
15/15	M/F	1015MFE-ND◊	8.39	7.24	4.92	189-015-413R571
25/25	M/F	1025MF-ND	8.85	7.63	5.19	189-025-412-571
25/25	M/F	1025MFE-ND◊	9.00	7.76	5.28	189-025-413R571
37/37	M/F	1037MF-ND	13.40	11.55	7.86	189-037-412-571
37/37	M/F	1037MFE-ND◊	13.65	11.77	8.01	189-037-413R571
9/9	F/F	1009FFE-ND◊	5.58	4.82	3.28	189-009-513R571
15/15	F/F	1015FF-ND	8.24	7.10	4.83	189-015-512-571
15/15	F/F	1015FFE-ND◊	8.39	7.24	4.92	189-015-513R571
25/25	F/F	1025FFE-ND◊	9.00	7.76	5.28	189-025-513R571
37/37	F/F	1037FF-ND	13.40	11.55	7.86	189-037-512-571
37/37	F/F	1037FFE-ND◊	13.65	11.77	8.01	189-037-513R571
9/9	F/M	1009FM-ND	5.48	4.73	3.22	189-009-312-571
9/9	F/M	1009FME-ND◊	5.58	4.82	3.28	189-009-313R571
15/15	F/M	1015FME-ND◊	8.39	7.24	4.92	189-015-313R571
25/25	F/M	1025FM-ND	8.85	7.63	5.19	189-025-312-571
25/25	F/M	1025FME-ND◊	9.00	7.76	5.28	189-025-313R571
37/37	F/M	1037FM-ND	13.40	11.55	7.86	189-037-312-571
37/37	F/M	1037FME-ND◊	13.65	11.77	8.01	189-037-313R571

◊ ***NEW!*** *RoHS Compliant*

Dual-Port D-Sub Connector

T2325-ND $12.71/1
$109.60/10
$745.28/100
(178-025-512-451)

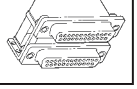

Surface Mount D-Sub Connectors

190 and 200 Series

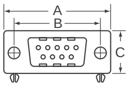

Materials:

- **Shell:** Steel, zinc or tin plating
- **Insulator:** Nylon 6T, UL rated 94V-0
- **Contacts:** Phosphor bronze
- **Plating:** Gold flash on mating area, tin/lead on terminating area

Connector Size	Dimensions (Inch) A	B	C
9	1.183	0.984	0.494
15	1.183	0.984	0.494
25	2.089	1.852	0.494

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Series 190 - Right Angle (.120 Diameter Hole and 4-40 UNC Threaded Insert)						
9	Male	190-09M-ND	2.15	1.85	1.26	190-009-162-001
9	Female	190-09F-ND	2.15	1.85	1.26	190-009-262-001
25	Male	190-25M-ND	3.57	3.08	2.10	190-025-162-001
25	Female	190-25F-ND	3.57	3.08	2.10	190-025-262-001
Series 200 - High Density (.120 Diameter Hole and 4-40 UNC Threaded Insert)						
15	Female	200-15F-ND	2.93	2.53	1.72	200-015-262-001

Press Fit D-Sub Connectors

191 Series

Materials:

- **Shell:** Steel, nickel or tin plated
- **Insulator:** Thermoplastic Polyester, UL94V-0
- **Contacts:** Male - Brass; Female - Phosphor bronze
- **Plating:** Gold flash on mating area, tin/lead on terminating area

Connector Size	Dimensions (Inch) A	B	C
9	1.214	.984	.494
15	1.545	1.312	.494
25	2.088	1.852	.494
37	2.730	2.500	.494

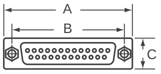

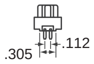

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Series 191 - (.125 Fastening Hole Size)						
9	Male	191-09M-ND	2.78	2.40	1.64	191-009-122-001
9	Female	191-09F-ND	2.84	2.45	1.67	191-009-222-001
15	Male	191-15M-ND	3.83	3.30	2.25	191-015-122-001
15	Female	191-15F-ND	4.18	3.60	2.45	191-015-222-001
25	Male	191-25M-ND	5.31	4.58	3.12	191-025-122-001
25	Female	191-25F-ND	5.74	4.95	3.37	191-025-222-001
37	Male	191-37M-ND	6.70	5.78	3.93	191-037-122-001
37	Female	191-37F-ND	7.31	6.30	4.29	191-037-222-001

High Density over (2)PS/2

999 Series

Materials:

- **Shell:** Steel
- **Insulator:** PBT UL rated 94V-0
- **Contacts:** Brass
- **Platings:** Gold Flash contacts, Nickel plated shells

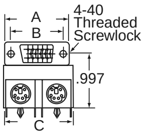

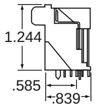

Connector Size	Dimensions (Inch) A	B	C
15	1.213	0.984	1.284

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
15	Female	999-H15F-ND	7.98	6.88	4.68	999-H15-PS2-571

Crimp and Poke D-Sub Connectors

170 Series

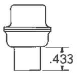

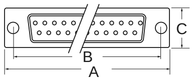

Uses Snap-In Contacts (sold separately)

Features:

- Available in 5 industry sizes/positions
- Low cost commercial version of military standard
- Tin or Yellow Chromate shells
- Allows for easy loading of only the positions required using Crimp and Snap-in contacts
- Tin-plated connector shells have indents to provide grounding and additional retention
- Nylon insulator has a minimum contact retention of 10 pounds
- Contact current rating: 5 amps

Materials:

- **Shell:** Steel, zinc-plated with yellow chromate or bright tin plating
- **Insulator:** Glass-filled thermoplastic, UL rated 94V-0

Conn. Size	Dimensions (Inch) A	B	C
9	1.213	0.984	0.496
15	1.541	1.312	0.496
25	2.087	1.852	0.496
37	2.732	2.500	0.496
50	2.638	2.406	0.602

Snap-In Contacts for Crimp D-Sub Connectors

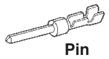
Pin

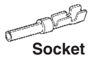
Socket

Features:

- Low cost and high performance stamped contacts features insulation support for increased holding power
- Contact range: 24-28 AWG
- Contacts are commercial quality stamped and are compatible with industry tooling.

Material:

- Male Pins: Brass
- Female Pins: Phosphor bronze

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Tin Shells – Crimp D-Sub Standard						
9	Male	709M-ND	.67	.58	.40	170-009-172-000
	Male	709ME-ND◊†	.69	.60	.41	170-009-173L000
	Female	709F-ND	.67	.58	.40	170-009-272-000
	Female	709FE-ND◊†	.73	.63	.43	170-009-273L000
15	Male	715M-ND	.78	.68	.46	170-015-172-000
	Male	715ME-ND◊†	.80	.69	.47	170-015-173L000
	Female	715F-ND	.86	.75	.51	170-015-272-000
	Female	715FE-ND◊†	.88	.76	.52	170-015-273L000
25	Male	725M-ND	.78	.68	.46	170-025-172-000
	Male	725ME-ND◊†	.84	.73	.50	170-025-173L000
	Female	725F-ND	.84	.72	.49	170-025-272-000
	Female	725FE-ND◊†	.90	.78	.53	170-025-273L000
37	Male	737M-ND	1.54	1.33	.91	170-037-172-000
	Male	737ME-ND◊†	1.65	1.43	.97	170-037-173L000
	Female	737FE-ND◊†	1.69	1.46	.99	170-037-273L000
50	Male	750ME-ND◊†	5.03	4.34	2.95	170-050-173L000
	Female	750F-ND	2.12	1.83	1.25	170-050-272-000
	Female	750FE-ND◊†	5.03	4.34	2.95	170-050-273L000
Tin Shell Crimp with .065” Clinch Nuts, Board Side						
9	Male	5709M-ND	1.71	1.48	1.01	170-009-172-010
	Male	5709ME-ND◊†	1.56	1.35	.92	170-009-173L010
	Female	5709FE-ND◊†	1.60	1.38	.94	170-009-273L010
15	Male	5715ME-ND◊†	1.67	1.44	.98	170-015-173L010
	Female	5715F-ND	1.94	1.68	1.14	170-015-272-010
	Female	5715FE-ND◊†	1.75	1.51	1.03	170-015-273L010
25	Male	5725M-ND	1.83	1.58	1.08	170-025-172-010
	Male	5725ME-ND◊†	1.71	1.48	1.01	170-025-173L010
	Female	5725F-ND	1.89	1.63	1.11	170-025-272-010
	Female	5725FE-ND◊†	1.77	1.53	1.04	170-025-273L010
37	Male	5737M-ND	2.76	2.38	1.62	170-037-172-010
	Male	5737ME-ND◊†	1.74	1.50	1.02	170-037-173L010
	Female	5737F-ND	2.73	2.35	1.60	170-037-272-010
	Female	5737FE-ND◊†	2.56	2.21	1.50	170-037-273L010
50	Male	5750M-ND	3.54	3.05	2.08	170-050-172-010
	Male	5750ME-ND◊†	5.90	5.09	3.46	170-050-173L010
	Female	5750F-ND	3.19	2.75	1.87	170-050-272-010
	Female	5750FE-ND◊†	5.90	5.09	3.46	170-050-273L010
Tin Shell Crimp with .250” Clinch Nuts, Board Side						
9	Male	6709M-ND	1.71	1.48	1.01	170-009-172-020
	Male	6709ME-ND◊†	1.56	1.35	.92	170-009-173L020
	Female	6709F-ND	1.71	1.48	1.01	170-009-272-020
	Female	6709FE-ND◊†	1.60	1.38	.94	170-009-273L020

◊ ***NEW!*** *RoHS Compliant* † Nickel Shell
* Pins and Sockets are selectively gold plated

(Continued)

Crimp and Poke D-Sub Connectors

170 Series *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
15	Male	6715M-ND	1.83	1.58	1.08	170-015-172-020
	Male	6715ME-ND◊	1.67	1.44	.98	170-015-173L020
	Female	6715F-ND	1.94	1.68	1.14	170-015-272-020
	Female	6715FE-ND◊	1.75	1.51	1.03	170-015-273L020
25	Male	6725M-ND	1.83	1.58	1.08	170-025-172-020
	Male	6725ME-ND◊	1.71	1.48	1.01	170-025-173L020
	Female	6725F-ND	1.89	1.63	1.11	170-025-272-020
	Female	6725FE-ND◊	1.77	1.53	1.04	170-025-273L020
37	Male	6737M-ND	2.76	2.38	1.62	170-037-172-020
	Male	6737ME-ND◊	1.74	1.50	1.02	170-037-173L020
	Female	6737F-ND	2.73	2.35	1.60	170-037-272-020
	Female	6737FE-ND◊	2.56	2.21	1.50	170-037-273L020
50	Male	6750M-ND	3.54	3.05	2.08	170-050-172-020
	Male	6750ME-ND◊	5.90	5.09	3.46	170-050-173L020
	Female	6750F-ND	3.19	2.75	1.87	170-050-272-020
	Female	6750FE-ND◊	5.90	5.09	3.46	170-050-273L020
Tin Shell Crimp with .250" Clinch Nuts, Mating Side						
9	Male	7709ME-ND◊†	1.56	1.35	.92	170-009-173L030
	Female	7709F-ND	1.71	1.48	1.01	170-009-272-030
	Female	7709FE-ND◊†	1.60	1.38	.94	170-009-273L030
15	Male	7715M-ND	1.83	1.58	1.08	170-015-172-030
	Male	7715ME-ND◊†	1.67	1.44	.98	170-015-173L030
	Female	7715F-ND	1.94	1.68	1.14	170-015-272-030
	Female	7715FE-ND◊†	1.75	1.51	1.03	170-015-273L030
25	Male	7725M-ND	1.83	1.58	1.08	170-025-172-030
	Male	7725ME-ND◊†	1.71	1.48	1.01	170-025-173L030
	Female	7725F-ND	1.89	1.63	1.11	170-025-272-030
	Female	7725FE-ND◊†	1.77	1.53	1.04	170-025-273L030
37	Male	7737M-ND	2.76	2.38	1.62	170-037-172-030
	Male	7737ME-ND◊†	1.74	1.50	1.02	170-037-173L030
	Female	7737F-ND	2.73	2.35	1.60	170-037-272-030
	Female	7737FE-ND◊†	2.56	2.21	1.50	170-037-273L030
50	Male	7750M-ND	3.54	3.05	2.08	170-050-172-030
	Male	7750ME-ND◊	5.90	5.09	3.46	170-050-173L030
	Female	7750F-ND	3.19	2.75	1.87	170-050-272-030
	Female	7750FE-ND◊	5.90	5.09	3.46	170-050-273L030
Yellow Chromate – Crimp D-Sub Standard						
9	Male	1709M-ND	1.25	1.08	.74	170-009-171-000
	Female	1709F-ND	1.36	1.18	.80	170-009-271-000
15	Male	1715M-ND	1.39	1.20	.82	170-015-171-000
25	Female	1725F-ND	1.51	1.30	.89	170-025-271-000
37	Male	1737M-ND	1.89	1.63	1.11	170-037-171-000
	Female	1737F-ND	2.00	1.73	1.18	170-037-271-000
50	Male	1750M-ND	1.74	1.50	1.02	170-050-171-000
	Female	1750F-ND	1.89	1.63	1.11	170-050-271-000
Yellow Chromate Crimp with .065" Clinch Nuts, Board Side						
9	Male	2709M-ND	2.12	1.83	1.25	170-009-171-010
	Female	2709F-ND	2.23	1.93	1.31	170-009-271-010
15	Male	2715M-ND	2.26	1.95	1.33	170-015-171-010
25	Male	2725M-ND	2.32	2.00	1.36	170-025-171-010
	Female	2725F-ND	2.38	2.05	1.40	170-025-271-010
37	Male	2737M-ND	2.76	2.38	1.62	170-037-171-010
	Female	2737F-ND	2.87	2.48	1.69	170-037-271-010
50	Male	2750M-ND	2.61	2.25	1.53	170-050-171-010
	Female	2750F-ND	2.76	2.38	1.62	170-050-271-010
Yellow Chromate Crimp with .250" Clinch Nuts, Board Side						
9	Male	3709M-ND	2.12	1.83	1.25	170-009-171-020
	Female	3709F-ND	2.23	1.93	1.31	170-009-271-020
15	Male	3715M-ND	2.26	1.95	1.33	170-015-171-020
	Female	3715F-ND	2.23	1.93	1.31	170-015-271-020
25	Male	3725M-ND	2.32	2.00	1.36	170-025-171-020
	Female	3725F-ND	2.38	2.05	1.40	170-025-271-020
37	Female	3737F-ND	2.87	2.48	1.69	170-037-271-020
50	Male	3750M-ND	2.61	2.25	1.53	170-050-171-020
	Female	3750F-ND	2.76	2.38	1.62	170-050-271-020
Yellow Chromate Crimp with .250" Clinch Nuts, Mating Side						
9	Male	4709M-ND	2.12	1.83	1.25	170-009-171-030
	Female	4709F-ND	2.23	1.93	1.31	170-009-271-030
15	Male	4715M-ND	2.26	1.95	1.33	170-015-171-030
	Female	4715F-ND	2.23	1.93	1.31	170-015-271-030
25	Male	4725M-ND	2.32	2.00	1.36	170-025-171-030
	Female	4725F-ND	2.38	2.05	1.40	170-025-271-030
37	Male	4737M-ND	2.76	2.38	1.62	170-037-171-030
	Female	4737F-ND	2.87	2.48	1.69	170-037-271-030
50	Male	4750M-ND	2.61	2.25	1.53	170-050-171-030
	Female	4750F-ND	2.76	2.38	1.62	170-050-271-030
Stamped Contacts						
—	Socket	82S-ND	—	.18	.13	170-002-170-002
	Socket	82SECT-ND◊	—	.19	.13	170-002-170L002
	Socket	82SETR-ND◊	925.00/10,000			170-002-170L002
—	Socket	82SSFECT-ND*◊	—	.16	.11	170-002-170L001
	Socket	82SSFETR-ND*◊	787.50/10,000			170-002-170L001
—	Pin	82PECT-ND◊	—	.15	.10	170-001-170L002
	Pin	82PETR-ND◊	725.00/10,000			170-001-170L002
—	Pin	82PSFCT-ND*	—	.12	.08	170-001-170-001
	Pin	82PSFTR-ND*	575.00/10,000			170-001-170-001
	Pin	82PSFECT-ND*◊	—	.12	.08	170-001-170L001
	Pin	82PSFETR-ND*◊	587.50/10,000			170-001-170L001

Desciption	Digi-Key Part No.	Price Each	NorComp Part No.
Tools			
Insertion/Removal Tool	T1010-ND	2.93	170-901-170-000
Hand Crimp Tool For Screw Machined Contacts	T1000M-ND	452.20	170-702-170-000
Hand Crimping Tool For Stamped Contacts	T1000S-ND	199.50	170-701-170-000

◊ ***NEW! RoHS Compliant*** † Nickel Shell
* Pins and Sockets are selectively gold plated

Parallel Interface Connectors (Centronics Type)

Material:
- Insulator: Glass filled thermoplastic, UL rated 94V-0 • Shell: Nickel plated steel • Contacts: Copper alloy, 10μ gold over 30μ nickel.

Fig. 1

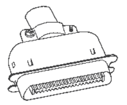

Male Cable Plug: • Compatible with industry standard • Solder Cup • Complete with cable boot, shell and hardware

Fig. 2

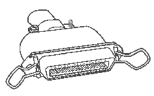

Female Cable Receptacle: • Compatible with industry standard • Complete with spring latches and cable boot • Solder Cup • Can be used as panel mount

Fig. 3

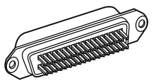

Panel Mount Male Plug: • 0.103" (2.62mm) Mounting hole accepts #3 screw (not included) • Compatible with industry standard • Solder Cup • Insulator color: Blue

Fig. 4

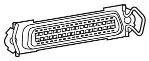

Panel Mount Female Receptacle: • Compatible with industry standard • Complete with spring latches • Solder Cup • Insulator color: Blue

Fig. 5

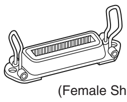

(Female Shown)

Straight DIP Solder: • For standard .062" (1.57mm) PC mount • Latch locks standard • Insulator color: Blue

Fig. 6

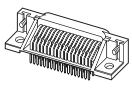

Right Angle PCB Mount: • Compatible with industry standard • Metal shell for EMI/RFI shielding • Insulator color: Blue

Fig. 7

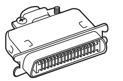

(Male Shown)

Discrete Wire IDC Solderless : • Compatible with standard terminating tools • Quick solderless termination for #24 or #26 AWG • Insulator color: Gray

Fig.	No. of Contacts	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
1	14	Male	T1501-ND	3.48	3.00	2.04	110-014-103-001
	14	Male	T1501A-ND◊ ***NEW!***	3.71	3.21	2.18	110-014-103L001
	36	Male	T1503-ND	3.56	3.07	2.09	110-036-103-001
	36	Male	T1503A-ND◊ ***NEW!***	3.78	3.26	2.22	110-036-103L001
	50	Male	T1504-ND	6.30	5.44	3.70	110-050-103-001
	50	Male	T1504A-ND◊ ***NEW!***	6.68	5.77	3.92	110-050-103L001
2	14	Female	T1507-ND	4.00	3.45	2.35	110-014-203-001
	14	Female	T1507A-ND◊ ***NEW!***	4.20	3.63	2.47	110-014-203L001
	36	Female	T1509-ND	4.66	4.02	2.74	110-036-203-001
	36	Female	T1509A-ND◊ ***NEW!***	4.77	4.11	2.80	110-036-203L001
	50	Female	T1510-ND	7.00	6.04	4.11	110-050-203-001
	50	Female	T1510A-ND◊ ***NEW!***	7.35	6.34	4.32	110-050-203L001
3	14	Male	1014M-ND	2.51	2.16	1.47	111-014-103-001
	14	Male	1014MA-ND◊ ***NEW!***	2.56	2.21	1.51	111-014-103L001
	24	Male	1024M-ND	2.69	2.33	1.58	111-024-103-001
	24	Male	1024MA-ND◊ ***NEW!***	2.75	2.38	1.62	111-024-103L001
	36	Male	1036M-ND	2.61	2.26	1.54	111-036-103-001
	36	Male	1036MA-ND◊ ***NEW!***	2.67	2.31	1.57	111-036-103L001
	50	Male	1050M-ND	3.96	3.42	2.33	111-050-103-001
	50	Male	1050MA-ND◊ ***NEW!***	4.05	3.49	2.38	111-050-103L001
4	14	Female	1014FA-ND◊ ***NEW!***	2.70	2.33	1.59	111-014-203L001
	24	Female	1024F-ND	4.26	3.68	2.50	111-024-203-001
	24	Female	1024FA-ND◊ ***NEW!***	4.43	3.83	2.60	111-024-203L001
	36	Female	1036F-ND	3.05	2.63	1.79	111-036-203-001
	36	Female	1036FA-ND◊ ***NEW!***	3.20	2.76	1.88	111-036-203L001
	50	Female	1050F-ND	4.93	4.25	2.89	111-050-203-001
	50	Female	1050FA-ND◊ ***NEW!***	5.05	4.36	2.97	111-050-203L001
5	14	Male	1014PM-ND	2.97	2.57	1.75	111-014-113-001
	14	Male	1014PMA-ND◊ ***NEW!***	3.19	2.75	1.87	111-014-113L001
	24	Male	1024PM-ND	4.52	3.90	2.66	111-024-113-001
	24	Male	1024PMA-ND◊ ***NEW!***	4.85	4.19	2.85	111-024-113L001
	36	Male	1036PM-ND	4.88	4.21	2.86	111-036-113-001
	36	Male	1036PMA-ND◊ ***NEW!***	5.23	4.52	3.07	111-036-113L001
	50	Male	1050PM-ND	5.39	4.65	3.17	111-050-113-001
	50	Male	1050PMA-ND◊ ***NEW!***	5.86	5.05	3.44	111-050-113L001
	14	Female	1014PF-ND	2.75	2.37	1.61	111-014-213-001
	14	Female	1014PFA-ND◊ ***NEW!***	2.95	2.55	1.74	111-014-213L001
	24	Female	1024PF-ND	2.97	2.57	1.75	111-024-213-001
	24	Female	1024PFA-ND◊ ***NEW!***	3.19	2.75	1.87	111-024-213L001
	36	Female	1036PF-ND	4.38	3.78	2.57	111-036-213-001
	36	Female	1036PFA-ND◊ ***NEW!***	4.70	4.05	2.76	111-036-213L001
	50	Female	1050PFA-ND◊ ***NEW!***	7.28	6.28	4.27	111-050-213L001
6	14	Male	1014RM-ND	3.18	2.74	1.87	112-014-113-001
	14	Male	1014RMA-ND◊ ***NEW!***	3.41	2.95	2.01	112-014-113R001
	24	Male	1024RM-ND	3.58	3.09	2.10	112-024-113-001
	24	Male	1024RMA-ND◊ ***NEW!***	3.85	3.32	2.26	112-024-113R001
	36	Male	1036RMA-ND◊ ***NEW!***	5.70	4.92	3.35	112-036-113R001
	50	Male	1050RM-ND	6.39	5.51	3.75	112-050-113-001
	50	Male	1050RMA-ND◊ ***NEW!***	6.85	5.91	4.02	112-050-113R001
	14	Female	1014RF-ND	3.69	3.19	2.17	112-014-213-001
	14	Female	1014RFA-ND◊ ***NEW!***	3.96	3.42	2.33	112-014-213R001
	24	Female	1024RF-ND	3.66	3.16	2.15	112-024-213-001
	24	Female	1024RFA-ND◊ ***NEW!***	3.93	3.39	2.31	112-024-213R001
	36	Female	1036RF-ND	4.66	4.02	2.74	112-036-213-001
	36	Female	1036RFA-ND◊ ***NEW!***	5.00	4.32	2.94	112-036-213R001
	50	Female	1050RF-ND	6.68	5.76	3.92	112-050-213-001
	50	Female	1050RFA-ND◊ ***NEW!***	7.17	6.19	4.21	112-050-213R001
7	36	Male	1036CM-ND	10.18	8.78	5.97	110-036-193-001
	36	Female	1036CF-ND	8.53	7.35	5.00	110-036-293-001

◊ ***RoHS Compliant***

NORCOMP

D-Sub Connectors

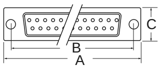

Features: • Available in 5 industry sizes/ positions • Non-removable contacts • Tin or Yellow Chromate shells available • Tin shells have indents to provide grounding and additional retention • Screw machine contacts offer high reliability. **Materials:** • Shell: Steel, zinc plated with yellow chromate or bright tin over nickel • Insulator: Glass-filled thermoplastic, UL rated 94V-O • Contacts: Brass male pins; Phosphor bronze female pins • Plating: Gold flash on entire contact

Conn. Size	Dimension (Inch)		
	A	B	C
9	1.213	0.984	0.496
15	1.543	1.312	0.496
25	2.087	1.852	0.496
37	2.732	2.500	0.496
50	2.638	2.406	0.606

Original D-Subminiature

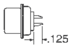

Solder Cup

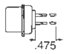

2-Level Wire Wrap

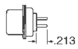

Dip Solder

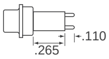

High Profile

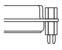

.225"Board Side/ .197" Mating Side

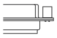

.250" Mating Side

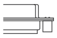

.250" Board Side

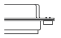

.098" Board Side .065" (172 Series)

Clinch Nut Hardware

Clinch Nuts: Brass, clear zinc plating with 4-40 threads

Hole Patterns

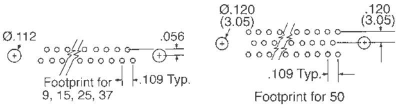

Footprint for 9, 15, 25, 37

Footprint for 50

Series 171 — Stamped Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
Tin Shells – Solder Cup						
9	Male	209M-ND	.63	.55	.38	171-009-102-001
	Male	209ME-ND◊†	.66	.58	.39	171-009-103L001
	Female	209F-ND	.67	.58	.40	171-009-202-001
	Female	209FE-ND◊†	.73	.63	.43	171-009-203L001
15	Male	215M-ND	.92	.79	.54	171-015-102-001
	Male	215ME-ND◊†	.98	.85	.58	171-015-103L001
	Female	215F-ND	1.13	.98	.67	171-015-202-001
	Female	215FE-ND◊†	1.22	1.05	.72	171-015-203L001
25	Male	225M-ND	1.08	.93	.64	171-025-102-001
	Male	225ME-ND◊†	1.10	.95	.65	171-025-103L001
	Female	225F-ND	1.26	1.09	.75	171-025-202-001
	Female	225FE-ND◊†	1.29	1.12	.76	171-025-203L001
37	Male	237ME-ND◊†	2.09	1.80	1.23	171-037-103L001
	Female	237F-ND	2.29	1.98	1.35	171-037-202-001
	Female	237FE-ND◊†	2.46	2.12	1.45	171-037-203L001
50	Male	250M-ND	4.07	3.51	2.39	171-050-102-001
	Male	250ME-ND◊†	4.16	3.59	2.44	171-050-103L001
	Female	250F-ND	4.42	3.81	2.60	171-050-202-001
	Female	250FE-ND◊†	4.52	3.90	2.65	171-050-203L001
Tin Shells with .098" Clinch Nuts, Board Side – Solder Cup						
9	Male	1209M-ND	1.57	1.35	.92	171-009-102-011
	Male	1209ME-ND◊†	1.53	1.33	.90	171-009-103L011
	Female	1209FE-ND◊†	1.60	1.38	.94	171-009-203L011
15	Male	1215M-ND	1.91	1.65	1.13	171-015-102-011
	Male	1215ME-ND◊†	1.85	1.60	1.09	171-015-103L011
	Female	1215F-ND	2.15	1.85	1.26	171-015-202-011
	Female	1215FE-ND◊†	2.09	1.80	1.23	171-015-203L011
25	Male	1225M-ND	2.09	1.80	1.23	171-025-102-011
	Male	1225ME-ND◊†	1.97	1.70	1.16	171-025-103L011
	Female	1225F-ND	2.32	2.00	1.36	171-025-202-011
	Female	1225FE-ND◊†	2.16	1.87	1.27	171-025-203L011
37	Male	1237M-ND	3.05	2.63	1.79	171-037-102-011
	Male	1237ME-ND◊†	2.96	2.55	1.74	171-037-103L011
	Female	1237F-ND	3.48	3.00	2.04	171-037-202-011
	Female	1237FE-ND◊†	3.33	2.87	1.96	171-037-203L011
50	Male	1250M-ND	5.42	4.68	3.18	171-050-102-011
	Male	1250ME-ND◊†	5.03	4.34	2.95	171-050-103L011
	Female	1250F-ND	5.83	5.03	3.42	171-050-202-011
	Female	1250FE-ND◊†	5.39	4.65	3.16	171-050-203L011
Tin Shells with .250" Clinch Nuts, Board Side – Solder Cup						
9	Male	2209M-ND	1.57	1.35	.92	171-009-102-021
	Male	2209ME-ND◊†	1.53	1.33	.90	171-009-103L021
	Female	2209FE-ND◊†	1.60	1.38	.94	171-009-203L021
15	Male	2215ME-ND◊†	1.85	1.60	1.09	171-015-103L021
	Female	2215F-ND	2.15	1.85	1.26	171-015-202-021
	Female	2215FE-ND◊†	2.09	1.80	1.23	171-015-203L021
25	Male	2225M-ND	2.09	1.80	1.23	171-025-102-021
	Male	2225ME-ND◊†	1.97	1.70	1.16	171-025-103L021
	Female	2225F-ND	2.32	2.00	1.36	171-025-202-021
	Female	2225FE-ND◊†	2.16	1.87	1.27	171-025-203L021
37	Male	2237M-ND	3.05	2.63	1.79	171-037-102-021
	Male	2237ME-ND◊†	2.96	2.55	1.74	171-037-103L021
	Female	2237F-ND	3.48	3.00	2.04	171-037-202-021
	Female	2237FE-ND◊†	3.33	2.87	1.96	171-037-203L021
50	Male	2250M-ND	5.42	4.68	3.18	171-050-102-021
	Male	2250ME-ND◊†	5.03	4.34	2.95	171-050-103L021
	Female	2250F-ND	5.83	5.03	3.42	171-050-202-021
	Female	2250FE-ND◊†	5.39	4.65	3.16	171-050-203L021
Tin Shells with .250" Clinch Nuts, Mating Side – Solder Cup						
9	Male	3209ME-ND◊†	1.53	1.33	.90	171-009-103L031
	Female	3209FE-ND◊†	1.60	1.38	.94	171-009-203L031
15	Male	3215M-ND	1.91	1.65	1.13	171-015-102-031
	Male	3215ME-ND◊†	1.85	1.60	1.09	171-015-103L031
	Female	3215F-ND	2.15	1.85	1.26	171-015-202-031
	Female	3215FE-ND◊†	2.09	1.80	1.23	171-015-203L031
25	Male	3225M-ND	2.09	1.80	1.23	171-025-102-031
	Male	3225ME-ND◊†	1.97	1.70	1.16	171-025-103L031
	Female	3225F-ND	2.32	2.00	1.36	171-025-202-031
	Female	3225FE-ND◊†	2.16	1.87	1.27	171-025-203L031
37	Male	3237M-ND	3.05	2.63	1.79	171-037-102-031
	Male	3237ME-ND◊†	2.96	2.55	1.74	171-037-103L031
	Female	3237F-ND	3.48	3.00	2.04	171-037-202-031
	Female	3237FE-ND◊†	3.33	2.87	1.96	171-037-203L031
50	Male	3250M-ND	5.42	4.68	3.18	171-050-102-031
	Male	3250ME-ND◊†	5.03	4.34	2.95	171-050-103L031
	Female	3250F-ND	5.83	5.03	3.42	171-050-202-031
	Female	3250FE-ND◊†	5.39	4.65	3.16	171-050-203L031
Tin Shells – Dip Solder						
9	Male	4209ME-ND◊†	1.13	.98	.67	171-009-113R001
	Female	4209F-ND	1.28	1.10	.75	171-009-212-001
	Female	4209FE-ND◊†	1.28	1.10	.75	171-009-213R001
15	Male	4215M-ND	1.80	1.55	1.06	171-015-112-001
	Male	4215ME-ND◊†	1.73	1.50	1.02	171-015-113R001
	Female	4215FE-ND◊†	1.40	1.21	.83	171-015-213R001
25	Male	4225M-ND	2.52	2.18	1.48	171-025-112-001
	Male	4225ME-ND◊†	2.41	2.08	1.42	171-025-113R001
	Female	4225F-ND	1.77	1.53	1.04	171-025-212-001
	Female	4225FE-ND◊†	1.79	1.54	1.05	171-025-213R001
37	Male	4237M-ND	4.32	3.73	2.54	171-037-112-001
	Male	4237ME-ND◊†	4.31	3.72	2.53	171-037-113R001
	Female	4237F-ND	2.87	2.48	1.69	171-037-212-001
	Female	4237FE-ND◊†	2.90	2.51	1.71	171-037-213R001
50	Male	4250M-ND	4.55	3.93	2.67	171-050-112-001
	Male	4250ME-ND◊†	4.79	4.13	2.81	171-050-113R001
	Female	4250F-ND	4.38	3.78	2.57	171-050-212-001
	Female	4250FE-ND◊†	4.63	3.99	2.72	171-050-213R001
Tin Shells with .098" Clinch Nuts, Board Side – Dip Solder						
9	Male	5209M-ND	2.00	1.73	1.18	171-009-112-011
	Male	5209ME-ND◊†	2.00	1.73	1.18	171-009-113R011
	Female	5209F-ND	2.15	1.85	1.26	171-009-212-011
	Female	5209FE-ND◊†	2.15	1.85	1.26	171-009-213R011
15	Male	5215M-ND	2.67	2.30	1.57	171-015-112-011
	Male	5215ME-ND◊†	2.60	2.25	1.53	171-015-113R011
	Female	5215F-ND	2.26	1.95	1.33	171-015-212-011
	Female	5215FE-ND◊†	2.27	1.96	1.34	171-015-213R011
25	Male	5225ME-ND◊†	3.28	2.83	1.93	171-025-113R011
	Female	5225F-ND	2.64	2.28	1.55	171-025-212-011
	Female	5225FE-ND◊†	2.66	2.29	1.56	171-025-213R011
37	Male	5237M-ND	5.19	4.48	3.05	171-037-112-011
	Male	5237ME-ND◊†	5.18	4.47	3.04	171-037-113R011
	Female	5237F-ND	3.74	3.23	2.20	171-037-212-011
	Female	5237FE-ND◊†	3.77	3.26	2.22	171-037-213R011
50	Male	5250M-ND	5.42	4.68	3.18	171-050-112-011
	Male	5250ME-ND◊†	5.66	4.88	3.32	171-050-113R011
	Female	5250F-ND	5.25	4.53	3.08	171-050-212-011
	Female	5250FE-ND◊†	5.50	4.74	3.23	171-050-213R011
Tin Shells with .250" Clinch Nuts, Board Side – Dip Solder						
9	Male	6209M-ND	2.00	1.73	1.18	171-009-112-021
	Male	6209ME-ND◊†	2.00	1.73	1.18	171-009-113R021
	Female	6209F-ND	2.15	1.85	1.26	171-009-212-021
	Female	6209FE-ND◊†	2.15	1.85	1.26	171-009-213R021
15	Male	6215M-ND	2.67	2.30	1.57	171-015-112-021
	Male	6215ME-ND◊†	2.60	2.25	1.53	171-015-113R021
	Female	6215F-ND	2.26	1.95	1.33	171-015-212-021
	Female	6215FE-ND◊†	2.27	1.96	1.34	171-015-213R021
25	Male	6225M-ND	3.39	2.93	1.99	171-025-112-021
	Male	6225ME-ND◊†	3.28	2.83	1.93	171-025-113R021
	Female	6225F-ND	2.64	2.28	1.55	171-025-212-021
	Female	6225FE-ND◊†	2.66	2.29	1.56	171-025-213R021
37	Male	6237M-ND	5.19	4.48	3.05	171-037-112-021
	Male	6237ME-ND◊†	5.18	4.47	3.04	171-037-113R021
	Female	6237F-ND	3.74	3.23	2.20	171-037-212-021
	Female	6237FE-ND◊†	3.77	3.26	2.22	171-037-213R021
50	Male	6250M-ND	5.42	4.68	3.18	171-050-112-021
	Male	6250ME-ND◊†	5.66	4.88	3.32	171-050-113R021
	Female	6250F-ND	5.25	4.53	3.08	171-050-212-021
	Female	6250FE-ND◊†	5.50	4.74	3.23	171-050-213R021
Tin Shells with .250" Clinch Nuts, Mating Side – Dip Solder						
9	Male	7209M-ND	2.00	1.73	1.18	171-009-112-031
	Male	7209ME-ND◊†	2.00	1.73	1.18	171-009-113R031
	Female	7209F-ND	2.15	1.85	1.26	171-009-212-031
	Female	7209FE-ND◊†	2.15	1.85	1.26	171-009-213R031
15	Male	7215M-ND	2.67	2.30	1.57	171-015-112-031
	Male	7215ME-ND◊†	2.60	2.25	1.53	171-015-113R031
	Female	7215F-ND	2.26	1.95	1.33	171-015-212-031
	Female	7215FE-ND◊†	2.27	1.96	1.34	171-015-213R031
25	Male	7225M-ND	3.39	2.93	1.99	171-025-112-031
	Male	7225ME-ND◊†	3.28	2.83	1.93	171-025-113R031
	Female	7225F-ND	2.64	2.28	1.55	171-025-212-031
	Female	7225FE-ND◊†	2.66	2.29	1.56	171-025-213R031
37	Male	7237M-ND	5.19	4.48	3.05	171-037-112-031
	Male	7237ME-ND◊†	5.18	4.47	3.04	171-037-113R031
	Female	7237F-ND	3.74	3.23	2.20	171-037-212-031
	Female	7237FE-ND◊†	3.77	3.26	2.22	171-037-213R031
50	Male	7250M-ND	5.42	4.68	3.18	171-050-112-031
	Male	7250ME-ND◊†	5.66	4.88	3.32	171-050-113R031
	Female	7250F-ND	5.25	4.53	3.08	171-050-212-031
	Female	7250FE-ND◊†	5.50	4.74	3.23	171-050-213R031
Tin Shells with .225 Spacer/Board Lock – Dip Solder						
9	Male	9209M-ND	2.09	1.80	1.23	171-009-112-911
	Male	9209ME-ND◊†	2.58	2.23	1.52	171-009-113R911
	Female	9209F-ND	2.61	2.25	1.53	171-009-212-911
	Female	9209FE-ND◊†	2.73	2.35	1.60	171-009-213R911
15	Male	9215M-ND	3.10	2.68	1.82	171-015-112-911
	Male	9215ME-ND◊†	3.18	2.75	1.87	171-015-113R911
	Female	9215F-ND	3.25	2.80	1.91	171-015-212-911
	Female	9215FE-ND◊†	2.85	2.46	1.68	171-015-213R911
25	Male	9225ME-ND◊†	3.86	3.33	2.27	171-025-113R911
	Female	9225F-ND	3.42	2.95	2.01	171-025-212-911
	Female	9225FE-ND◊†	3.36	2.90	1.98	171-025-213R911
37	Male	9237M-ND	4.38	3.78	2.57	171-037-112-911
	Male	9237ME-ND◊†	5.76	4.97	3.38	171-037-113R911
	Female	9237F-ND	4.73	4.08	2.78	171-037-212-911
	Female	9237FE-ND◊†	4.35	3.76	2.56	171-037-213R911
50	Male	9250M-ND	5.60	4.83	3.29	171-050-112-911
	Male	9250ME-ND◊†	6.24	5.38	3.66	171-050-113R911
	Female	9250F-ND	5.89	5.08	3.46	171-050-212-911
	Female	9250FE-ND◊†	6.08	5.24	3.57	171-050-213R911

◊ ***NEW!*** ***RoHS Compliant*** † Nickel Shell

Series 172 – Machined Contacts Series 172E – Machined Contacts Economy

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
172 Series – Tin Shells and Solder Cup						
9	Male	1109MA-ND◊	2.44	2.10	1.43	172-009-102R001
	Female	1109FA-ND◊	2.77	2.39	1.63	172-009-202R001
15	Male	1115MA-ND◊	3.08	2.66	1.81	172-015-102R001
	Female	1115FA-ND◊	3.71	3.21	2.18	172-015-202R001
25	Male	1125MA-ND◊	3.99	3.44	2.34	172-025-102R001
	Female	1125FA-ND◊	5.48	4.73	3.22	172-025-202R001
37	Male	1137MA-ND◊	5.36	4.62	3.15	172-037-102R001
	Female	1137FA-ND◊	7.43	6.41	4.36	172-037-202R001
50	Male	1150MA-ND◊	9.60	8.28	5.63	172-050-102R001
	Female	1150FA-ND◊	14.47	12.47	8.48	172-050-202R001
172E Series – Tin Shells and Solder Cup						
9	Male	1109ME-ND	2.12	1.83	1.25	172-E09-102-001
	Male	1109MEA-ND◊†	2.22	1.92	1.31	172-E09-103R001
	Female	1109FE-ND	2.41	2.08	1.42	172-E09-202-001
	Female	1109FEA-ND◊†	2.53	2.18	1.49	172-E09-203R001
15	Male	1115ME-ND	2.67	2.30	1.57	172-E15-102-001
	Male	1115MEA-ND◊†	2.80	2.42	1.65	172-E15-103R001
	Female	1115FE-ND	3.22	2.78	1.89	172-E15-202-001
	Female	1115FEA-ND◊†	3.38	2.92	1.99	172-E15-203R001
25	Male	1125MEA-ND◊†	3.63	3.13	2.13	172-E25-103R001
	Female	1125FE-ND	4.76	4.10	2.79	172-E25-202-001
	Female	1125FEA-ND◊†	4.99	4.31	2.93	172-E25-203R001
37	Male	1137ME-ND	4.64	4.00	2.72	172-E37-102-001
	Male	1137MEA-ND◊†	4.87	4.20	2.86	172-E37-103R001
	Female	1137FE-ND	6.44	5.55	3.78	172-E37-202-001
	Female	1137FEA-ND◊†	6.76	5.83	3.97	172-E37-203R001
50	Male	1150ME-ND	8.29	7.15	4.87	172-E50-102-001
	Male	1150MEA-ND◊†	8.71	7.51	5.11	172-E50-103R001
	Female	1150FE-ND	12.53	10.80	7.35	172-E50-202-001
	Female	1150FEA-ND◊†	13.15	11.34	7.72	172-E50-203R001
172 Series – Tin Shells with .065" Clinch Nuts, Board Side and Solder Cup						
9	Male	2109MA-ND◊	3.56	3.08	2.09	172-009-102R011
	Female	2109FA-ND◊	3.90	3.36	2.29	172-009-202R011
15	Male	2115MA-ND◊	4.20	3.63	2.47	172-015-102R011
	Female	2115FA-ND◊	4.81	4.15	2.83	172-015-202R011
25	Male	2125M-ND	4.84	4.18	2.84	172-025-102-011
	Male	2125MA-ND◊	4.84	4.18	2.84	172-025-102R011
	Female	2125FA-ND◊	6.61	5.70	3.88	172-025-202R011
37	Male	2137MA-ND◊	6.46	5.57	3.79	172-037-102R011
	Female	2137FA-ND◊	8.56	7.38	5.02	172-037-202R011
50	Male	2150MA-ND◊	10.69	9.22	6.27	172-050-102R011
	Female	2150FA-ND◊	15.59	13.44	9.14	172-050-102R011
172E Series – Tin Shells with .065" Clinch Nuts, Board Side and Solder Cup						
9	Male	2109ME-ND	3.07	2.65	1.81	172-E09-102-011
	Male	2109MEA-ND◊†	3.23	2.79	1.90	172-E09-103R011
	Female	2109FE-ND	3.36	2.90	1.98	172-E09-202-011
	Female	2109FEA-ND◊†	3.53	3.05	2.08	172-E09-203R011
15	Male	2115ME-ND	3.63	3.13	2.13	172-E15-102-011
	Male	2115MEA-ND◊†	3.81	3.29	2.24	172-E15-103R011
	Female	2115FE-ND	4.18	3.60	2.45	172-E15-202-011
	Female	2115FEA-ND◊†	4.38	3.78	2.58	172-E15-203R011
25	Male	2125ME-ND	4.41	3.80	2.59	172-E25-102-011
	Male	2125MEA-ND◊†	4.63	3.99	2.72	172-E25-103R011
	Female	2125FE-ND	5.71	4.93	3.35	172-E25-202-011
	Female	2125FEA-ND◊†	6.00	5.18	3.52	172-E25-203R011
37	Male	2137ME-ND	5.60	4.83	3.29	172-E37-102-011
	Male	2137MEA-ND◊†	5.88	5.07	3.45	172-E37-103R011
	Female	2137FE-ND	7.40	6.38	4.34	172-E37-202-011
	Female	2137FEA-ND◊†	7.77	6.70	4.56	172-E37-203R011
50	Male	2150ME-ND	9.25	7.98	5.43	172-E50-102-011
	Male	2150MEA-ND◊†	9.72	8.38	5.70	172-E50-103R011
	Female	2150FE-ND	13.49	11.63	7.91	172-E50-202-011
	Female	2150FEA-ND◊†	14.16	12.21	8.31	172-E50-203R011
172 Series – Tin Shells with .250" Clinch Nuts, Board Side and Solder Cup						
9	Male	3109MA-ND◊	3.56	3.08	2.09	172-009-102R021
	Female	3109F-ND	3.71	3.20	2.18	172-009-202-021
	Female	3109FA-ND◊	3.90	3.36	2.29	172-009-202R021
15	Male	3115M-ND	4.00	3.45	2.35	172-015-102-021
	Male	3115MA-ND◊	4.20	3.63	2.47	172-015-102R021
	Female	3115FA-ND◊	4.81	4.15	2.83	172-015-202R021

◊ ***NEW!*** ***RoHS Compliant*** † Nickel Shell *(Continued)*

D-Sub Connectors *(Cont.)*

Series 172 – Machined Contacts
Series 172E – Machined Contacts Economy *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each			NorComp Part No.
			1	10	100	
25	Male	3125MA-ND◊	4.84	4.18	2.84	172-025-102R021
	Female	3125FA-ND◊	6.61	5.70	3.88	172-025-202R021
37	Male	3137M-ND	6.15	5.30	3.61	172-037-102-021
	Male	3137MA-ND◊	6.46	5.57	3.79	172-037-102R021
	Female	3137F-ND	8.15	7.03	4.78	172-037-202-021
	Female	3137FA-ND◊	8.56	7.38	5.02	172-037-202R021
50	Male	3150M-ND	10.18	8.78	5.97	172-050-102-021
	Male	3150MA-ND◊	10.69	9.22	6.27	172-050-102R021
	Female	3150F-ND	14.85	12.80	8.71	172-050-202-021
	Female	3150FA-ND◊	15.59	13.44	9.14	172-050-202R021
172E Series – Tin Shells with .250” Clinch Nuts, Board Side and Solder Cup						
9	Male	3109MEA-ND◊†	3.23	2.79	1.90	172-E09-103R021
	Female	3109FE-ND	3.36	2.90	1.98	172-E09-202-021
	Female	3109FEA-ND◊†	3.53	3.05	2.08	172-E09-203R021
15	Male	3115ME-ND	3.63	3.13	2.13	172-E15-102-021
	Male	3115MEA-ND◊†	3.81	3.29	2.24	172-E15-103R021
	Female	3115FE-ND	4.18	3.60	2.45	172-E15-202-021
	Female	3115FEA-ND◊†	4.38	3.78	2.58	172-E15-203R021
25	Male	3125ME-ND	4.41	3.80	2.59	172-E25-102-021
	Male	3125MEA-ND◊†	4.63	3.99	2.72	172-E25-103R021
	Female	3125FE-ND	5.71	4.93	3.35	172-E25-202-021
	Female	3125FEA-ND◊†	6.00	5.18	3.52	172-E25-203R021
37	Male	3137ME-ND	5.60	4.83	3.29	172-E37-102-021
	Male	3137MEA-ND◊†	5.88	5.07	3.45	172-E37-103R021
	Female	3137FE-ND	7.40	6.38	4.34	172-E37-202-021
	Female	3137FEA-ND◊†	7.77	6.70	4.56	172-E37-203R021
50	Male	3150ME-ND	9.25	7.98	5.43	172-E50-102-021
	Male	3150MEA-ND◊†	9.72	8.38	5.70	172-E50-103R021
	Female	3150FE-ND	13.49	11.63	7.91	172-E50-202-021
	Female	3150FEA-ND◊†	14.16	12.21	8.31	172-E50-203R021
172 Series – Tin Shells with .250” Clinch Nuts, Mating Side and Solder Cup						
9	Male	4109MA-ND◊	3.56	3.08	2.09	172-009-102R031
	Female	4109FA-ND◊	3.90	3.36	2.29	172-009-202R031
15	Male	4115M-ND	4.00	3.45	2.35	172-015-102-031
	Male	4115MA-ND◊	4.20	3.63	2.47	172-015-102R031
	Female	4115FA-ND◊	4.81	4.15	2.83	172-015-202R031
25	Male	4125MA-ND◊	4.84	4.18	2.84	172-025-102R031
	Female	4125F-ND	6.29	5.43	3.69	172-025-202-031
	Female	4125FA-ND◊	6.61	5.70	3.88	172-025-202R031
37	Male	4137MA-ND◊	6.46	5.57	3.79	172-037-102R031
	Female	4137F-ND	8.15	7.03	4.78	172-037-202-031
	Female	4137FA-ND◊	8.56	7.38	5.02	172-037-202R031
50	Male	4150M-ND	10.18	8.78	5.97	172-050-102-031
	Male	4150MA-ND◊	10.69	9.22	6.27	172-050-102R031
	Female	4150FA-ND◊	15.59	13.44	9.14	172-050-202R031
172E Series – Tin Shells with .250” Clinch Nuts, Mating Side and Solder Cup						
9	Male	4109ME-ND	3.07	2.65	1.81	172-E09-102-031
	Male	4109MEA-ND◊†	3.23	2.79	1.90	172-E09-103R031
	Female	4109FE-ND	3.36	2.90	1.98	172-E09-202-031
	Female	4109FEA-ND◊†	3.53	3.05	2.08	172-E09-203R031
15	Male	4115ME-ND	3.63	3.13	2.13	172-E15-102-031
	Male	4115MEA-ND◊†	3.81	3.29	2.24	172-E15-103R031
	Female	4115FE-ND	4.18	3.60	2.45	172-E15-202-031
	Female	4115FEA-ND◊†	4.38	3.78	2.58	172-E15-203R031
25	Male	4125ME-ND	4.41	3.80	2.59	172-E25-102-031
	Male	4125MEA-ND◊†	4.63	3.99	2.72	172-E25-103R031
	Female	4125FE-ND	5.71	4.93	3.35	172-E25-202-031
	Female	4125FEA-ND◊†	6.00	5.18	3.52	172-E25-203R031
37	Male	4137ME-ND	5.60	4.83	3.29	172-E37-102-031
	Male	4137MEA-ND◊†	5.88	5.07	3.45	172-E37-103R031
	Female	4137FE-ND	7.40	6.38	4.34	172-E37-202-031
	Female	4137FEA-ND◊†	7.77	6.70	4.56	172-E37-203R031
50	Male	4150ME-ND	9.25	7.98	5.43	172-E50-102-031
	Male	4150MEA-ND◊†	9.72	8.38	5.70	172-E50-103R031
	Female	4150FE-ND	13.49	11.63	7.91	172-E50-202-031
	Female	4150FEA-ND◊†	14.16	12.21	8.31	172-E50-203R031
172E Series – Yellow Chromate and Solder Cup						
9	Male	109ME-ND	1.97	1.70	1.16	172-E09-101-001
	Male	109MEA-ND◊	2.07	1.79	1.22	172-E09-101R001
	Female	109FE-ND	2.26	1.95	1.33	172-E09-201-001
	Female	109FEA-ND◊	2.38	2.05	1.40	172-E09-201R001
15	Male	115ME-ND	2.55	2.20	1.50	172-E15-101-001
	Male	115MEA-ND◊	2.68	2.31	1.58	172-E15-101R001
	Female	115FE-ND	3.39	2.93	1.99	172-E15-201-001
	Female	115FEA-ND◊	3.56	3.08	2.09	172-E15-201R001
25	Male	125ME-ND	2.99	2.58	1.76	172-E25-101-001
	Male	125MEA-ND◊	3.14	2.71	1.84	172-E25-101R001
	Female	125FE-ND	4.09	3.53	2.40	172-E25-201-001
	Female	125FEA-ND◊	4.29	3.71	2.52	172-E25-201R001
37	Male	137ME-ND	4.99	4.30	2.93	172-E37-101-001
	Male	137MEA-ND◊	5.24	4.52	3.08	172-E37-101R001
	Female	137FE-ND	6.93	5.98	4.07	172-E37-201-001
	Female	137FEA-ND◊	7.28	6.28	4.27	172-E37-201R001
50	Male	150ME-ND	8.29	7.15	4.87	172-E50-101-001
	Male	150MEA-ND◊	8.71	7.51	5.11	172-E50-101R001
	Female	150FE-ND	12.53	10.80	7.35	172-E50-201-001
	Female	150FEA-ND◊	13.15	11.34	7.72	172-E50-201R001
172 Series – Yellow Chromate with .065” Clinch Nuts, Board Side and Solder Cup						
25	Male	5125M-ND	4.35	3.75	2.55	172-025-101-011
37	Male	5137M-ND	6.55	5.65	3.85	172-037-101-011
	Female	5137F-ND	8.67	7.48	5.09	172-037-201-011
50	Male	5150M-ND	10.18	8.78	5.97	172-050-101-011
	Female	5150F-ND	14.85	12.80	8.71	172-050-201-011
172E Series – Yellow Chromate with .065” Clinch Nuts, Board Side and Solder Cup						
9	Male	5109ME-ND	2.93	2.53	1.72	172-E09-101-011
	Male	5109MEA-ND◊	3.08	2.66	1.81	172-E09-101R011
	Female	5109FEA-ND◊	3.38	2.92	1.99	172-E09-201R011
15	Male	5115ME-ND	3.51	3.03	2.06	172-E15-101-011
	Male	5115MEA-ND◊	3.69	3.18	2.17	172-E15-101R011
	Female	5115FE-ND	4.35	3.75	2.55	172-E15-201-011
	Female	5115FEA-ND◊	4.57	3.94	2.68	172-E15-201R011
25	Male	5125ME-ND	3.94	3.40	2.32	172-E25-101-011
	Male	5125MEA-ND◊	4.14	3.57	2.43	172-E25-101R011
	Female	5125FE-ND	5.05	4.35	2.96	172-E25-201-011
	Female	5125FEA-ND◊	5.30	4.57	3.11	172-E25-201R011
37	Male	5137ME-ND	5.95	5.13	3.49	172-E37-101-011
	Male	5137MEA-ND◊	6.24	5.39	3.67	172-E37-101R011
	Female	5137FE-ND	7.89	6.80	4.63	172-E37-201-011
	Female	5137FEA-ND◊	8.28	7.14	4.86	172-E37-201R011
50	Male	5150ME-ND	9.25	7.98	5.43	172-E50-101-011
	Male	5150MEA-ND◊	9.72	8.38	5.70	172-E50-101R011
	Female	5150FE-ND	13.49	11.63	7.91	172-E50-201-011
	Female	5150FEA-ND◊	14.16	12.21	8.31	172-E50-201R011
172 Series – Yellow Chromate with .250” Clinch Nuts, Board Side and Solder Cup						
37	Male	6137M-ND	6.55	5.65	3.85	172-037-101-021
172E Series – Yellow Chromate with .250” Clinch Nuts, Board Side and Solder Cup						
9	Male	6109MEA-ND◊	3.08	2.66	1.81	172-E09-101R021
	Female	6109FE-ND	3.22	2.78	1.89	172-E09-201-021
	Female	6109FEA-ND◊	3.38	2.92	1.99	172-E09-201R021
15	Male	6115ME-ND	3.51	3.03	2.06	172-E15-101-021
	Male	6115MEA-ND◊	3.69	3.18	2.17	172-E15-101R021
	Female	6115FE-ND	4.35	3.75	2.55	172-E15-201-021
	Female	6115FEA-ND◊	4.57	3.94	2.68	172-E15-201R021
25	Male	6125ME-ND	3.94	3.40	2.32	172-E25-101-021
	Male	6125MEA-ND◊	4.14	3.57	2.43	172-E25-101R021
	Female	6125FE-ND	5.05	4.35	2.96	172-E25-201-021
	Female	6125FEA-ND◊	5.30	4.57	3.11	172-E25-201R021
37	Male	6137ME-ND	5.95	5.13	3.49	172-E37-101-021
	Male	6137MEA-ND◊	6.24	5.39	3.67	172-E37-101R021
	Female	6137FEA-ND◊	8.28	7.14	4.86	172-E37-201R021
50	Male	6150ME-ND	9.25	7.98	5.43	172-E50-101-021
	Male	6150MEA-ND◊	9.72	8.38	5.70	172-E50-101R021
	Female	6150FE-ND	13.49	11.63	7.91	172-E50-201-021
	Female	6150FEA-ND◊	14.16	12.21	8.31	172-E50-201R021
172 Series – Yellow Chromate with .250” Clinch Nuts, Mating Side and Solder Cup						
25	Male	7125M-ND	4.35	3.75	2.55	172-025-101-031
37	Female	7137F-ND	8.67	7.48	5.09	172-037-201-031
50	Female	7150F-ND	14.85	12.80	8.71	172-050-201-031
172E Series – Yellow Chromate with .250” Clinch Nuts, Mating Side and Solder Cup						
9	Male	7109ME-ND	2.93	2.53	1.72	172-E09-101-031
	Male	7109MEA-ND◊	3.08	2.66	1.81	172-E09-101R031
	Female	7109FE-ND	3.22	2.78	1.89	172-E09-201-031
	Female	7109FEA-ND◊	3.38	2.92	1.99	172-E09-201R031
15	Male	7115ME-ND	3.51	3.03	2.06	172-E15-101-031
	Male	7115MEA-ND◊	3.69	3.18	2.17	172-E15-101R031
	Female	7115FE-ND	4.35	3.75	2.55	172-E15-201-031
	Female	7115FEA-ND◊	4.57	3.94	2.68	172-E15-201R031
25	Male	7125ME-ND	3.94	3.40	2.32	172-E25-101-031
	Male	7125MEA-ND◊	4.14	3.57	2.43	172-E25-101R031
	Female	7125FEA-ND◊	5.30	4.57	3.11	172-E25-201R031
37	Male	7137ME-ND	5.95	5.13	3.49	172-E37-101-031
	Male	7137MEA-ND◊	6.24	5.39	3.67	172-E37-101R031
	Female	7137FE-ND	7.89	6.80	4.63	172-E37-201-031
	Female	7137FEA-ND◊	8.28	7.14	4.86	172-E37-201R031
50	Male	7150ME-ND	9.25	7.98	5.43	172-E50-101-031
	Male	7150MEA-ND◊	9.72	8.38	5.70	172-E50-101R031
	Female	7150FE-ND	13.49	11.63	7.91	172-E50-201-031
	Female	7150FEA-ND◊	14.16	12.21	8.31	172-E50-201R031
172E Series – Yellow Chromate, .225 Spacer/ Board Lock and Solder Cup						
9	Male	101909ME-ND	3.57	3.08	2.10	172-E09-101-911
	Female	201909FE-ND	3.86	3.33	2.27	172-E09-201-911
15	Male	101915ME-ND	4.15	3.58	2.44	172-E15-101-911
	Female	201915FE-ND	4.99	4.30	2.93	172-E15-201-911
25	Male	101925ME-ND	4.58	3.95	2.69	172-E25-101-911
	Female	201925FE-ND	5.68	4.90	3.34	172-E25-201-911
37	Male	101937ME-ND	6.58	5.68	3.86	172-E37-101-911
50	Male	101950ME-ND	9.89	8.53	5.80	172-E50-101-911
	Female	201950FE-ND	14.12	12.18	8.28	172-E50-201-911
172E Series – Tin Shell, .225 Spacer/ Board Lock and Solder Cup						
9	Male	102909ME-ND	3.71	3.20	2.18	172-E09-102-911
	Female	202909FE-ND	4.00	3.45	2.35	172-E09-202-911
15	Male	102915ME-ND	4.26	3.68	2.50	172-E15-102-911
	Female	202915FE-ND	4.81	4.15	2.83	172-E15-202-911
25	Male	102925ME-ND	5.05	4.35	2.96	172-E25-102-911
	Female	202925FE-ND	6.35	5.48	3.73	172-E25-202-911
37	Male	102937ME-ND	6.24	5.38	3.66	172-E37-102-911
	Female	202937FE-ND	8.03	6.93	4.71	172-E37-202-911
50	Male	102950ME-ND	9.89	8.53	5.80	172-E50-102-911
	Female	202950FE-ND	14.12	12.18	8.28	172-E50-202-911
172 Series – Yellow Chromate and Dip Solder						
37	Male	537M-ND	5.51	4.75	3.23	172-037-111-001
50	Male	550M-ND	9.14	7.88	5.36	172-050-111-001
172E Series – Yellow Chromate and Dip Solder						
9	Male	509ME-ND	1.86	1.60	1.09	172-E09-111-001
	Male	509MEA-ND◊	2.04	1.76	1.20	172-E09-111R001
	Female	509FE-ND	2.64	2.28	1.55	172-E09-211-001
	Female	509FEA-ND◊	2.90	2.51	1.71	172-E09-211R001
15	Male	515ME-ND	2.49	2.15	1.47	172-E15-111-001
	Male	515MEA-ND◊	2.74	2.37	1.61	172-E15-111R001
	Female	515FE-ND	3.77	3.25	2.21	172-E15-211-001
	Female	515FEA-ND◊	4.15	3.58	2.44	172-E15-211R001
25	Male	525ME-ND	3.45	2.98	2.03	172-E25-111-001
	Male	525MEA-ND◊	3.80	3.28	2.23	172-E25-111R001
	Female	525FE-ND	5.16	4.45	3.03	172-E25-211-001
	Female	525FEA-ND◊	5.68	4.90	3.33	172-E25-211R001
37	Male	537ME-ND	5.02	4.33	2.95	172-E37-111-001
	Male	537MEA-ND◊	8.20	7.07	4.81	172-E37-111R001
	Female	537FE-ND	7.45	6.43	4.37	172-E37-211-001
	Female	537FEA-ND◊	8.20	7.07	4.81	172-E37-211R001
50	Male	550ME-ND	8.29	7.15	4.87	172-E50-111-001
	Male	550MEA-ND◊	8.29	7.15	4.87	172-E50-111R001
	Female	550FE-ND	10.53	9.08	6.18	172-E50-211-001
	Female	550FEA-ND◊	11.58	9.99	6.79	172-E50-211R001
172 Series – Tin Shells and Dip Solder						
9	Male	1509MNA-ND◊	2.65	2.29	1.56	172-009-112R001
	Female	1509FNA-ND◊	3.29	2.84	1.93	172-009-212R001
15	Male	1515MNA-ND◊	3.54	3.06	2.08	172-015-112R001
	Female	1515FNA-ND◊	4.59	3.96	2.70	172-015-212R001
25	Male	1525MNA-ND◊	4.40	3.80	2.59	172-025-112R001
	Female	1525FNA-ND◊	6.86	5.92	4.03	172-025-212R001
37	Male	1537MN-ND	11.15	4.73	3.22	172-037-112-001
	Male	1537MNA-ND◊	6.03	5.20	3.54	172-037-112R001
	Female	1537FNA-ND◊	9.66	8.33	5.67	172-037-212R001
50	Male	1550MNA-ND◊	10.05	8.67	5.90	172-050-112-001
	Female	1550FNA-ND◊	12.82	11.06	7.52	172-050-212-001
172E Series – Tin Shells and Dip Solder						
9	Male	1509MNE-ND	2.18	1.88	1.28	172-E09-112-001
	Male	1509MNEA-ND◊	2.39	2.07	1.41	172-E09-113R001
	Female	1509FNE-ND	2.73	2.35	1.60	172-E09-212-001
	Female	1509FNEA-ND◊	3.00	2.59	1.76	172-E09-213R001
15	Male	1515MNE-ND	2.93	2.53	1.72	172-E15-112-001
	Male	1515MNEA-ND◊	3.22	2.78	1.89	172-E15-113R001
	Female	1515FNE-ND	3.80	3.28	2.23	172-E15-212-001
	Female	1515FNEA-ND◊	4.18	3.61	2.45	172-E15-213R001
25	Male	1525MNE-ND	3.63	3.13	2.13	172-E25-112-001
	Male	1525MNEA-ND◊	3.99	3.44	2.34	172-E25-113R001
	Female	1525FNE-ND	5.66	4.88	3.32	172-E25-212-001
	Female	1525FNEA-ND◊	6.22	5.37	3.65	172-E25-213R001
37	Male	1537MNE-ND	4.99	4.30	2.93	172-E37-112-001
	Male	1537MNEA-ND◊	8.77	7.57	5.15	172-E37-113R001
	Female	1537FNE-ND	7.98	6.88	4.68	172-E37-212-001
	Female	1537FNEA-ND◊	8.77	7.57	5.15	172-E37-213R001
50	Male	1550MNE-ND	8.29	7.15	4.87	172-E50-112-001
	Male	1550MNEA-ND◊	9.12	7.87	5.35	172-E50-113R001
	Female	1550FNE-ND	10.59	9.13	6.21	172-E50-212-001
	Female	1550FNEA-ND◊	11.64	10.04	6.83	172-E50-213R001
172 Series – Tin Shells with .065” Clinch Nuts, Board Side and Dip Solder						
9	Male	2509M-ND	3.45	2.98	2.03	172-009-112-011
	Male	2509MA-ND◊	3.80	3.28	2.23	172-009-112R011
	Female	2509FA-ND◊	4.47	3.85	2.62	172-009-212R011
15	Male	2515MA-ND◊	4.69	4.05	2.75	172-015-112R011
	Female	2515FA-ND◊	5.74	4.95	3.37	172-015-212R011
25	Male	2525MA-ND◊	5.55	4.79	3.26	172-025-112R011
	Female	2525FA-ND◊	8.01	6.91	4.70	172-025-212R011
37	Male	2537M-ND	6.55	5.65	3.85	172-037-112-011
	Male	2537MA-ND◊	7.21	6.22	4.23	172-037-112R011
	Female	2537FA-ND◊	10.81	9.33	6.34	172-037-212R011
50	Male	2550MA-ND◊	11.20	9.66	6.57	172-050-112R011
	Female	2550FA-ND◊	13.97	12.05	8.20	172-050-212R011
172E Series – Tin Shells with .065” Clinch Nuts, Board Side and Dip Solder						
9	Male	2509ME-ND	3.13	2.70	1.84	172-E09-112-011
	Male	2509MEA-ND◊†	3.45	2.97	2.02	172-E09-113R011
	Female	2509FE-ND	3.68	3.18	2.16	172-E09-212-011
	Female	2509FEA-ND◊†	4.05	3.50	2.38	172-E09-213R011
15	Male	2515ME-ND	3.89	3.35	2.28	172-E15-112-011
	Male	2515MEA-ND◊†	4.27	3.69	2.51	172-E15-113R011
	Female	2515FE-ND	4.76	4.10	2.79	172-E15-212-011
	Female	2515FEA-ND◊†	5.23	4.51	3.07	172-E15-213R011
25	Male	2525ME-ND	4.58	3.95	2.69	172-E25-112-011
	Male	2525MEA-ND◊†	5.04	4.35	2.96	172-E25-113R011
	Female	2525FE-ND	6.61	5.70	3.88	172-E25-212-011
	Female	2525FEA-ND◊†	7.27	6.27	4.27	172-E25-213R011
37	Male	2537ME-ND	5.95	5.13	3.49	172-E37-112-011
	Male	2537MEA-ND◊†	9.83	8.47	5.76	172-E37-113R011
	Female	2537FE-ND	8.93	7.70	5.24	172-E37-212-011
	Female	2537FEA-ND◊†	9.83	8.47	5.76	172-E37-213R011
50	Male	2550ME-ND	9.25	7.98	5.43	172-E50-112-011
	Male	2550MEA-ND◊†	10.18	8.78	5.97	172-E50-113R011
	Female	2550FE-ND	11.54	9.95	6.77	172-E50-212-011
	Female	2550FEA-ND◊†	12.70	10.95	7.45	172-E50-213R011
172 Series – Tin Shells with .250” Clinch Nuts, Board Side and Dip Solder						
9	Male	3509MA-ND◊	3.80	3.28	2.23	172-009-112R021
	Female	3509FA-ND◊	4.47	3.85	2.62	172-009-212R021
15	Male	3515MA-ND◊	4.69	4.05	2.75	172-015-112R021
	Female	3515FA-ND◊	5.74	4.95	3.37	172-015-212R021
25	Male	3525MA-ND◊	5.55	4.79	3.26	172-025-112R021
	Female	3525FA-ND◊	8.01	6.91	4.70	172-025-212R021
37	Male	3537MA-ND◊	7.21	6.22	4.23	172-037-112R021
	Female	3537F-ND	9.83	8.48	5.77	172-037-212-021
	Female	3537FA-ND◊	10.81	9.33	6.34	172-037-212R021
50	Male	3550M-ND	10.18	8.78	5.97	172-050-112-021
	Male	3550MA-ND◊	11.20	9.66	6.57	172-050-112R021
	Female	3550FA-ND◊	13.97	12.05	8.20	172-050-212R021

◊ ***NEW!* *RoHS Compliant*** † Nickel Shell *(Continued)*

D-Sub Connectors *(Cont.)*

Series 172 – Machined Contacts Series 172E – Machined Contacts Economy *(Cont.)*

172E Series – Tin Shells with .250" Clinch Nuts, Board Side and Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	3509ME-ND	3.13	2.70	1.84	172-E09-112-021
	Male	3509MEA-ND◊†	3.45	2.97	2.02	172-E09-113R021
	Female	3509FE-ND	3.68	3.18	2.16	172-E09-212-021
	Female	3509FEA-ND◊†	4.05	3.50	2.38	172-E09-213R021
15	Male	3515ME-ND	3.89	3.35	2.28	172-E15-112-021
	Male	3515MEA-ND◊†	4.27	3.69	2.51	172-E15-113R021
	Female	3515FE-ND	4.76	4.10	2.79	172-E15-212-021
	Female	3515FEA-ND◊†	5.23	4.51	3.07	172-E15-213R021
25	Male	3525ME-ND	4.58	3.95	2.69	172-E25-112-021
	Male	3525MEA-ND◊†	5.04	4.35	2.96	172-E25-113R021
	Female	3525FE-ND	6.61	5.70	3.88	172-E25-212-021
	Female	3525FEA-ND◊†	7.27	6.27	4.27	172-E25-213R021
37	Male	3537ME-ND	5.95	5.13	3.49	172-E37-112-021
	Male	3537MEA-ND◊†	9.83	8.47	5.76	172-E37-113R021
	Female	3537FE-ND	8.93	7.70	5.24	172-E37-212-021
	Female	3537FEA-ND◊†	9.83	8.47	5.76	172-E37-213R021
50	Male	3550ME-ND	9.25	7.98	5.43	172-E50-112-021
	Male	3550MEA-ND◊†	10.18	8.78	5.97	172-E50-113R021
	Female	3550FE-ND	11.54	9.95	6.77	172-E50-212-021
	Female	3550FEA-ND◊†	12.70	10.95	7.45	172-E50-213R021

172 Series – Tin Shells with .250" Clinch Nuts, Mating Side and Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	4509MA-ND◊	3.80	3.28	2.23	172-009-112R031
	Female	4509FA-ND◊	4.47	3.85	2.62	172-009-212R031
15	Male	4515M-ND	4.26	3.68	2.50	172-015-112-031
	Male	4515MA-ND◊	4.69	4.05	2.75	172-015-112R031
	Female	4515FA-ND◊	5.74	4.95	3.37	172-015-212R031
25	Male	4525M-ND	5.05	4.35	2.96	172-025-112-031
	Male	4525MA-ND◊	5.55	4.79	3.26	172-025-112R031
	Female	4525FA-ND◊	8.01	6.91	4.70	172-025-212R031
37	Male	4537MA-ND◊	7.21	6.22	4.23	172-037-112R031
	Female	4537FA-ND◊	10.81	9.33	6.34	172-037-212R031
50	Male	4550M-ND	10.18	8.78	5.97	172-050-112-031
	Male	4550MA-ND◊	11.20	9.66	6.57	172-050-112R031
	Female	4550F-ND	12.70	10.95	7.45	172-050-212-031
	Female	4550FA-ND◊	13.97	12.05	8.20	172-050-212R031

172E Series – Tin Shells with .250" Clinch Nuts, Mating Side and Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	4509ME-ND	3.13	2.70	1.84	172-E09-112-031
	Male	4509MEA-ND◊†	3.45	2.97	2.02	172-E09-113R031
	Female	4509FE-ND	3.68	3.18	2.16	172-E09-212-031
	Female	4509FEA-ND◊†	4.05	3.50	2.38	172-E09-213R031
15	Male	4515ME-ND	3.89	3.35	2.28	172-E15-112-031
	Male	4515MEA-ND◊†	4.27	3.69	2.51	172-E15-113R031
	Female	4515FE-ND	4.76	4.10	2.79	172-E15-212-031
	Female	4515FEA-ND◊†	5.23	4.51	3.07	172-E15-213R031
25	Male	4525ME-ND	4.58	3.95	2.69	172-E25-112-031
	Male	4525MEA-ND◊†	5.04	4.35	2.96	172-E25-113R031
	Female	4525FE-ND	6.61	5.70	3.88	172-E25-212-031
	Female	4525FEA-ND◊†	7.27	6.27	4.27	172-E25-213R031
37	Male	4537ME-ND	5.95	5.13	3.49	172-E37-112-031
	Male	4537MEA-ND◊†	9.83	8.47	5.76	172-E37-113R031
	Female	4537FE-ND	8.93	7.70	5.24	172-E37-212-031
	Female	4537FEA-ND◊†	9.83	8.47	5.76	172-E37-213R031
50	Male	4550ME-ND	9.25	7.98	5.43	172-E50-112-031
	Male	4550MEA-ND◊†	10.18	8.78	5.97	172-E50-113R031
	Female	4550FE-ND	11.54	9.95	6.77	172-E50-212-031
	Female	4550FEA-ND◊†	12.70	10.95	7.45	172-E50-213R031

172 Series – Tin Shells with .225" Board Side, .197" Mating Side Clinch Nuts and Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	2909MA-ND◊	4.56	3.94	2.68	172-009-112R911
	Female	2909FA-ND◊	5.23	4.51	3.07	172-009-212R911
15	Male	2915MA-ND◊	5.49	4.73	3.22	172-015-112R911
	Female	2915FA-ND◊	6.54	5.64	3.84	172-015-212R911
25	Male	2925MA-ND◊	6.32	5.45	3.71	172-025-112R911
	Female	2925FA-ND◊	8.77	7.57	5.15	172-025-212R911
37	Male	2937M-ND	7.25	6.25	4.25	172-037-112-911
	Male	2937MA-ND◊	7.98	6.88	4.68	172-037-112R911
	Female	2937FA-ND◊	11.58	9.99	6.79	172-037-212R911
50	Male	2950M-ND	10.90	9.40	6.40	172-050-112-911
	Male	2950MA-ND◊	11.99	10.34	7.04	172-050-112R911
	Female	2950FA-ND◊	14.74	12.71	8.64	172-050-212R911

172E Series – Tin Shells with .225" Board Side, .197" Mating Side Clinch Nuts and Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	2909ME-ND	3.77	3.25	2.21	172-E09-112-911
	Male	2909MEA-ND◊†	4.15	3.58	2.44	172-E09-113R911
	Female	2909FE-ND	4.32	3.73	2.54	172-E09-212-911
	Female	2909FEA-ND◊†	4.75	4.10	2.79	172-E09-213R911
15	Male	2915ME-ND	4.52	3.90	2.66	172-E15-112-911
	Male	2915MEA-ND◊†	4.98	4.29	2.92	172-E15-113R911
	Female	2915FE-ND	5.39	4.65	3.17	172-E15-212-911
	Female	2915FEA-ND◊†	5.93	5.12	3.48	172-E15-213R911
25	Male	2925ME-ND	5.22	4.50	3.06	172-E25-112-911
	Male	2925MEA-ND◊†	5.74	4.95	3.37	172-E25-113R911
	Female	2925FE-ND	7.25	6.25	4.25	172-E25-212-911
	Female	2925FEA-ND◊†	7.98	6.88	4.68	172-E25-213R911
37	Male	2937ME-ND	6.58	5.68	3.86	172-E37-112-911
	Male	2937MEA-ND◊†	10.53	9.08	6.18	172-E37-113R911
	Female	2937FE-ND	9.57	8.25	5.61	172-E37-212-911
	Female	2937FEA-ND◊†	10.53	9.08	6.18	172-E37-213R911
50	Male	2950ME-ND	9.89	8.53	5.80	172-E50-112-911
	Male	2950MEA-ND◊†	10.88	9.38	6.38	172-E50-113R911
	Female	2950FE-ND	12.18	10.50	7.14	172-E50-212-911
	Female	2950FEA-ND◊†	13.40	11.55	7.86	172-E50-213R911

172 Series – Yellow Chromate with .065" Clinch Nuts, Board Side and Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
15	Female	5515F-ND	5.19	4.48	3.05	172-015-211-011
37	Male	5537M-ND	6.58	5.68	3.86	172-037-111-011

172E Series – Yellow Chromate with .065" Clinch Nuts, Board Side and Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	5509ME-ND	2.81	2.43	1.65	172-E09-111-011
	Male	5509MEA-ND◊	3.09	2.67	1.82	172-E09-111R011
	Female	5509FE-ND	3.60	3.10	2.11	172-E09-211-011
	Female	5509FEA-ND◊	3.96	3.41	2.32	172-E09-211R011
15	Male	5515ME-ND	3.45	2.98	2.03	172-E15-111-011
	Male	5515MEA-ND◊	3.80	3.28	2.23	172-E15-111R011
	Female	5515FE-ND	4.73	4.08	2.78	172-E15-211-011
	Female	5515FEA-ND◊	5.20	4.49	3.05	172-E15-211R011
25	Male	5525ME-ND	4.41	3.80	2.59	172-E25-111-011
	Male	5525MEA-ND◊	4.85	4.18	2.85	172-E25-111R011
	Female	5525FE-ND	6.12	5.28	3.59	172-E25-211-011
	Female	5525FEA-ND◊	6.73	5.81	3.95	172-E25-211R011
37	Male	5537ME-ND	5.97	5.15	3.51	172-E37-111-011
	Male	5537MEA-ND◊	9.25	7.98	5.43	172-E37-111R011
	Female	5537FE-ND	8.41	7.25	4.93	172-E37-211-011
	Female	5537FEA-ND◊	9.25	7.98	5.43	172-E37-211R011
50	Male	5550ME-ND	9.25	7.98	5.43	172-E50-111-011
	Male	5550MEA-ND◊	9.25	7.98	5.43	172-E50-111R011
	Female	5550FE-ND	11.54	9.95	6.77	172-E50-211-011
	Female	5550FEA-ND◊	12.70	10.95	7.45	172-E50-211R011

172 Series – Yellow Chromate with .250" Clinch Nuts, Board Side and Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	6509M-ND	3.10	2.68	1.82	172-009-111-021
37	Female	6537F-ND	9.25	7.98	5.43	172-037-211-021

172E Series – Yellow Chromate with .250" Clinch Nuts, Board Side and Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	6509ME-ND	2.81	2.43	1.65	172-E09-111-021
	Male	6509MEA-ND◊	3.09	2.67	1.82	172-E09-111R021
	Female	6509FE-ND	3.60	3.10	2.11	172-E09-211-021
	Female	6509FEA-ND◊	3.96	3.41	2.32	172-E09-211R021
15	Male	6515ME-ND	3.45	2.98	2.03	172-E15-111-021
	Male	6515MEA-ND◊	3.80	3.28	2.23	172-E15-111R021
	Female	6515FE-ND	4.73	4.08	2.78	172-E15-211-021
	Female	6515FEA-ND◊	5.20	4.49	3.05	172-E15-211R021
25	Male	6525ME-ND	4.41	3.80	2.59	172-E25-111-021
	Male	6525MEA-ND◊	4.85	4.18	2.85	172-E25-111R021
	Female	6525FE-ND	6.12	5.28	3.59	172-E25-211-021
	Female	6525FEA-ND◊	6.73	5.81	3.95	172-E25-211R021
37	Male	6537ME-ND	5.97	5.15	3.51	172-E37-111-021
	Male	6537MEA-ND◊	9.25	7.98	5.43	172-E37-111R021
	Female	6537FE-ND	8.41	7.25	4.93	172-E37-211-021
	Female	6537FEA-ND◊	9.25	7.98	5.43	172-E37-211R021
50	Male	6550ME-ND	9.25	7.98	5.43	172-E50-111-021
	Male	6550MEA-ND◊	9.25	7.98	5.43	172-E50-111R021
	Female	6550FE-ND	11.54	9.95	6.77	172-E50-211-021
	Female	6550FEA-ND◊	12.70	10.95	7.45	172-E50-211R021

172 Series – Yellow Chromate with .250" Clinch Nuts, Mating Side and Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
50	Male	7550M-ND	10.18	8.78	5.97	172-050-111-031
	Female	7550F-ND	12.70	10.95	7.45	172-050-211-031

172E Series – Yellow Chromate with .250" Clinch Nuts, Mating Side and Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	7509ME-ND	2.81	2.43	1.65	172-E09-111-031
	Male	7509MEA-ND◊	3.09	2.67	1.82	172-E09-111R031
	Female	7509FE-ND	3.60	3.10	2.11	172-E09-211-031
	Female	7509FEA-ND◊	3.96	3.41	2.32	172-E09-211R031
15	Male	7515ME-ND	3.45	2.98	2.03	172-E15-111-031
	Male	7515MEA-ND◊	3.80	3.28	2.23	172-E15-111R031
	Female	7515FE-ND	4.73	4.08	2.78	172-E15-211-031
	Female	7515FEA-ND◊	5.20	4.49	3.05	172-E15-211R031
25	Male	7525ME-ND	4.41	3.80	2.59	172-E25-111-031
	Male	7525MEA-ND◊	4.85	4.18	2.85	172-E25-111R031
	Female	7525FE-ND	6.12	5.28	3.59	172-E25-211-031
	Female	7525FEA-ND◊	6.73	5.81	3.95	172-E25-211R031
37	Male	7537ME-ND	5.97	5.15	3.51	172-E37-111-031
	Male	7537MEA-ND◊	9.25	7.98	5.43	172-E37-111R031
	Female	7537FE-ND	8.41	7.25	4.93	172-E37-211-031
	Female	7537FEA-ND◊	9.25	7.98	5.43	172-E37-211R031
50	Male	7550ME-ND	9.25	7.98	5.43	172-E50-111-031
	Male	7550MEA-ND◊	9.25	7.98	5.43	172-E50-111R031
	Female	7550FE-ND	11.54	9.95	6.77	172-E50-211-031
	Female	7550FEA-ND◊	12.70	10.95	7.45	172-E50-211R031

172 Series – Yellow Chromate with .225" Board Side, .197 Mating Side Clinch Nuts & Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
15	Male	1915M-ND	4.50	3.88	2.64	172-015-111-911
50	Male	1950M-ND	10.90	9.40	6.40	172-050-111-911

172E Series – Yellow Chromate with .225" Board Side, .197 Mating Side Clinch Nuts & Dip Solder

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	1909ME-ND	3.45	2.98	2.03	172-E09-111-911
	Male	1909MEA-ND◊	3.80	3.28	2.23	172-E09-111R911
	Female	1909FE-ND	4.26	3.68	2.50	172-E09-211-911
	Female	1909FEA-ND◊	4.69	4.05	2.75	172-E09-211R911
15	Male	1915ME-ND	4.09	3.53	2.40	172-E15-111-911
	Male	1915MEA-ND◊	4.50	3.88	2.64	172-E15-111R911
	Female	1915FEA-ND◊	5.90	5.09	3.46	172-E15-211R911
25	Male	1925ME-ND	5.05	4.35	2.96	172-E25-111-911
	Male	1925MEA-ND◊	5.55	4.79	3.26	172-E25-111R911
	Female	1925FE-ND	6.76	5.83	3.97	172-E25-211-911
	Female	1925FEA-ND◊	7.43	6.41	4.36	172-E25-211R911
37	Male	1937ME-ND	6.61	5.70	3.88	172-E37-111-911
	Male	1937MEA-ND◊	9.95	8.58	5.84	172-E37-111R911
	Female	1937FE-ND	9.05	7.80	5.31	172-E37-211-911
	Female	1937FEA-ND◊	9.95	8.58	5.84	172-E37-211R911
50	Male	1950ME-ND	9.92	8.55	5.82	172-E50-111-911
	Male	1950MEA-ND◊	10.91	9.41	6.40	172-E50-111R911
	Female	1950FE-ND	12.18	10.50	7.14	172-E50-211-911
	Female	1950FEA-ND◊	13.40	11.55	7.86	172-E50-211R911

Yellow Chromate with .065" Clinch Nuts, Board Side – Wire Wrap

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	5609M-ND	3.77	3.25	2.21	172-009-141-011
	Female	5609F-ND	4.44	3.83	2.61	172-009-241-011
15	Female	5615F-ND	6.35	5.48	3.73	172-015-241-011
25	Male	5625M-ND	7.48	6.45	4.39	172-025-141-011
	Female	5625F-ND	7.96	6.86	4.67	172-025-241-011
37	Male	5637M-ND	10.38	8.95	6.09	172-037-141-011
	Female	5637F-ND	13.08	11.28	7.67	172-037-241-011
50	Male	5650M-ND	13.49	11.63	7.91	172-050-141-011
	Female	5650F-ND	17.08	14.73	10.02	172-050-241-011

Yellow Chromate with .250" Clinch Nuts, Board Side – Wire Wrap

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	6609M-ND	3.77	3.25	2.21	172-009-141-021
	Female	6609F-ND	4.44	3.83	2.61	172-009-241-021
15	Male	6615M-ND	5.86	5.05	3.44	172-015-141-021
	Female	6615F-ND	6.35	5.48	3.73	172-015-241-021
25	Male	6625M-ND	7.48	6.45	4.39	172-025-141-021
37	Male	6637M-ND	10.38	8.95	6.09	172-037-141-021
	Female	6637F-ND	13.08	11.28	7.67	172-037-241-021
50	Male	6650M-ND	13.49	11.63	7.91	172-050-141-021
	Female	6650F-ND	17.08	14.73	10.02	172-050-241-021

Yellow Chromate with .250" Clinch Nuts, Mating Side – Wire Wrap

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	7609M-ND	3.77	3.25	2.21	172-009-141-031
	Female	7609F-ND	4.44	3.83	2.61	172-009-241-031
15	Male	7615M-ND	5.86	5.05	3.44	172-015-141-031
	Female	7615F-ND	6.35	5.48	3.73	172-015-241-031
25	Male	7625M-ND	7.48	6.45	4.39	172-025-141-031
	Female	7625F-ND	9.22	7.95	5.41	172-025-241-031
37	Male	7637M-ND	10.38	8.95	6.09	172-037-141-031
	Female	7637F-ND	13.08	11.28	7.67	172-037-241-031
50	Male	7650M-ND	13.49	11.63	7.91	172-050-141-031

Yellow Chromate with .225" Board Side and .197 Mating Side Clinch Nuts - Wire Wrap

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	3909M-ND	4.55	3.93	2.67	172-009-141-911
	Female	3909F-ND	5.19	4.48	3.05	172-009-241-911
15	Male	3915M-ND	6.18	5.33	3.63	172-015-141-911
	Female	3915F-ND	6.99	6.03	4.10	172-015-241-911
25	Male	3925M-ND	8.27	7.13	4.85	172-025-141-911
	Female	3925F-ND	12.41	10.70	7.28	172-025-241-911
37	Male	3937M-ND	12.18	10.50	7.14	172-037-141-911
	Female	3937F-ND	13.66	11.78	8.01	172-037-241-911
50	Male	3950MN-ND	14.21	12.25	8.33	172-050-141-911
	Female	3950F-ND	18.10	15.60	10.61	172-050-241-911

Yellow Chromate Shells – Wire Wrap

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	609M-ND	2.58	2.23	1.52	172-009-141-001
	Female	609F-ND	3.15	2.72	1.85	172-009-241-001
15	Male	615M-ND	3.83	3.30	2.25	172-015-141-001
	Female	615F-ND	4.71	4.07	2.77	172-015-241-001
25	Female	625F-ND	7.27	6.27	4.27	172-025-241-001
37	Female	637F-ND	10.88	9.38	6.38	172-037-241-001
50	Male	650M-ND	10.32	8.90	6.05	172-050-141-001
	Female	650F-ND	13.87	11.96	8.14	172-050-241-001

Tin Shells – Wire Wrap

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	1609MN-ND	3.07	2.65	1.81	172-009-142-001
	Male	1609MNA-ND◊	3.09	2.67	1.82	172-009-142R001
	Female	1609FN-ND	3.71	3.20	2.18	172-009-242-001
	Female	1609FNA-ND◊	3.73	3.22	2.19	172-009-242R001
15	Male	1615MNA-ND◊	4.72	4.07	2.77	172-015-142R001
	Female	1615FN-ND	5.54	4.78	3.25	172-015-242-001
	Female	1615FNA-ND◊	5.54	4.78	3.25	172-015-242R001
25	Male	1625MN-ND	6.82	5.88	4.00	172-025-142-001
	Male	1625MNA-ND◊	6.83	5.89	4.01	172-025-142R001
	Female	1625FN-ND	10.96	9.45	6.43	172-025-242-001
	Female	1625FNA-ND◊	10.94	9.44	6.42	172-025-242R001
37	Male	1637MN-ND	9.74	8.40	5.72	172-037-142-001
	Male	1637MNA-ND◊	9.76	8.42	5.73	172-037-142R001
	Female	1637FN-ND	12.21	10.53	7.16	172-037-242-001
	Female	1637FNA-ND◊	12.22	10.54	7.17	172-037-242R001
50	Male	1650MN-ND	12.76	11.00	7.48	172-050-142-001
	Male	1650MNA-ND◊	12.76	11.00	7.48	172-050-142R001
	Female	1650FN-ND	16.65	14.35	9.76	172-050-242-001
	Female	1650FNA-ND◊	16.65	14.36	14.36	172-050-242R001

Tin Shells with .065" Clinch Nuts, Board Side – Wire Wrap

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Male	2609M-ND	3.94	3.40	2.32	172-009-142-011
	Male	2609MA-ND◊	4.05	3.50	2.38	172-009-142R011
	Female	2609F-ND	4.58	3.95	2.69	172-009-242-011
	Female	2609FA-ND◊	4.69	4.05	2.75	172-009-242R011
15	Male	2615M-ND	5.60	4.83	3.29	172-015-142-011
	Male	2615MA-ND◊	5.68	4.90	3.33	172-015-142R011
	Female	2615F-ND	6.41	5.53	3.76	172-015-242-011
	Female	2615FA-ND◊	6.49	5.60	3.81	172-015-242R011
25	Male	2625M-ND	7.69	6.63	4.51	172-025-142-011
	Male	2625MA-ND◊	7.78	6.71	4.57	172-025-142R011
	Female	2625F-ND	11.83	10.20	6.94	172-025-242-011
	Female	2625FA-ND◊	11.90	10.26	6.98	172-025-242R011

◊ **NEW! RoHS Compliant** † Nickel Shell *(Continued)*

D-Sub Connectors *(Cont.)*

Series 172 – Machined Contacts Series 172E – Machined Contacts Economy *(Cont.)*

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
37	Male	2637M-ND	10.61	9.15	6.23	172-037-142-011
	Male	2637MA-ND◊	10.72	9.24	6.29	172-037-142R011
	Female	2637F-ND	13.08	11.28	7.67	172-037-242-011
	Female	2637FA-ND◊	13.17	11.36	7.73	172-037-242R011
50	Male	2650M-ND	13.63	11.75	7.99	172-050-142-011
	Male	2650MA-ND◊	13.72	11.83	8.05	172-050-142R011
	Female	2650F-ND	17.52	15.10	10.27	172-050-242-011
	Female	2650FA-ND◊	17.61	15.18	10.33	172-050-242R011
Tin Shells with .250" Clinch Nuts, Board Side – Wire Wrap						
9	Male	3609M-ND	3.94	3.40	2.32	172-009-142-021
	Male	3609MA-ND◊	4.05	3.50	2.38	172-009-142R021
	Female	3609F-ND	4.58	3.95	2.69	172-009-242-021
	Female	3609FA-ND◊	4.69	4.05	2.75	172-009-242R021
15	Male	3615M-ND	5.60	4.83	3.29	172-015-142-021
	Male	3615MA-ND◊	5.68	4.90	3.33	172-015-142R021
	Female	3615F-ND	6.41	5.53	3.76	172-015-242-021
	Female	3615FA-ND◊	6.49	5.60	3.81	172-015-242R021
25	Male	3625M-ND	7.69	6.63	4.51	172-025-142-021
	Male	3625MA-ND◊	7.78	6.71	4.57	172-025-142R021
	Female	3625F-ND	11.83	10.20	6.94	172-025-242-021
	Female	3625FA-ND◊	11.90	10.26	6.98	172-025-242R021
37	Male	3637M-ND	10.61	9.15	6.23	172-037-142-021
	Male	3637MA-ND◊	10.72	9.24	6.29	172-037-142R021
	Female	3637F-ND	13.08	11.28	7.67	172-037-242-021
	Female	3637FA-ND◊	13.17	11.36	7.73	172-037-242R021
50	Male	3650M-ND	13.63	11.75	7.99	172-050-142-021
	Male	3650MA-ND◊	13.72	11.83	8.05	172-050-142R021
	Female	3650F-ND	17.52	15.10	10.27	172-050-242-021
	Female	3650FA-ND◊	17.61	15.18	10.33	172-050-242R021
Tin Shells with .250" Clinch Nuts, Mating Side – Wire Wrap						
9	Male	4609M-ND	3.94	3.40	2.32	172-009-142-031
	Male	4609MA-ND◊	4.05	3.50	2.38	172-009-142R031
	Female	4609F-ND	4.58	3.95	2.69	172-009-242-031
	Female	4609FA-ND◊	4.69	4.05	2.75	172-009-242R031
15	Male	4615M-ND	5.60	4.83	3.29	172-015-142-031
	Male	4615MA-ND◊	5.68	4.90	3.33	172-015-142R031
	Female	4615F-ND	6.41	5.53	3.76	172-015-242-031
	Female	4615FA-ND◊	6.49	5.60	3.81	172-015-242R031
25	Male	4625M-ND	7.69	6.63	4.51	172-025-142-031
	Male	4625MA-ND◊	7.78	6.71	4.57	172-025-142R031
	Female	4625F-ND	11.83	10.20	6.94	172-025-242-031
	Female	4625FA-ND◊	11.90	10.26	6.98	172-025-242R031
37	Male	4637M-ND	10.61	9.15	6.23	172-037-142-031
	Male	4637MA-ND◊	10.72	9.24	6.29	172-037-142R031
	Female	4637F-ND	13.08	11.28	7.67	172-037-242-031
	Female	4637FA-ND◊	13.17	11.36	7.73	172-037-242R031
50	Male	4650M-ND	13.63	11.75	7.99	172-050-142-031
	Male	4650MA-ND◊	13.72	11.83	8.05	172-050-142R031
	Female	4650F-ND	17.52	15.10	10.27	172-050-242-031
	Female	4650FA-ND◊	17.61	15.18	10.33	172-050-242R031
Tin Shell with .225" Board Side and .197 Mating Side Clinch Nuts – Wire Wrap						
9	Male	4909M-ND	4.26	3.68	2.50	172-009-142-911
	Male	4909MA-ND◊	4.69	4.05	2.75	172-009-142R911
	Female	4909F-ND	4.84	4.18	2.84	172-009-242-911
	Female	4909FA-ND◊	5.33	4.60	3.13	172-009-242R911
15	Male	4915M-ND	5.74	4.95	3.37	172-015-142-911
	Male	4915MA-ND◊	6.32	5.45	3.71	172-015-142R911
	Female	4915F-ND	6.50	5.60	3.81	172-015-242-911
	Female	4915FA-ND◊	7.15	6.16	4.19	172-015-242R911
25	Male	4925M-ND	7.66	6.60	4.49	172-025-142-911
	Male	4925MA-ND◊	8.42	7.26	4.94	172-025-142R911
	Female	4925F-ND	11.43	9.85	6.70	172-025-242-911
	Female	4925FA-ND◊	12.57	10.84	7.37	172-025-242R911
37	Male	4937M-ND	10.32	8.90	6.06	172-037-142-911
	Male	4937MA-ND◊	11.36	9.79	6.66	172-037-142R911
	Female	4937F-ND	12.56	10.83	7.37	172-037-242-911
	Female	4937FA-ND◊	13.81	11.91	8.10	172-037-242R911
50	Male	4950M-ND	13.05	11.25	7.65	172-050-142-911
	Male	4950MA-ND◊	14.36	12.38	8.42	172-050-142R911
	Female	4950F-ND	16.59	14.30	9.73	172-050-242-911
	Female	4950FA-ND◊	18.25	15.73	10.70	172-050-242R911

◊ ***NEW!*** ***RoHS Compliant*** † Nickel Shell

Series 172 High Profile — Machined Contacts

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
Yellow Chromate						
9	Male	8609M-ND	3.77	3.25	2.21	172-009-181-001
	Female	8609F-ND	4.41	3.80	2.59	172-009-281-001
15	Male	8615M-ND	5.42	4.68	3.18	172-015-181-001
	Female	8615F-ND	6.90	5.95	4.05	172-015-281-001
25	Male	8625M-ND	8.03	6.93	4.71	172-025-181-001
	Female	8625F-ND	10.67	9.20	6.26	172-025-281-001
37	Male	8637M-ND	11.48	9.90	6.74	172-037-181-001
	Female	8637F-ND	15.28	13.18	8.96	172-037-281-001
50	Male	8650M-ND	14.65	12.63	8.59	172-050-181-001
	Female	8650F-ND	19.95	17.20	11.70	172-050-281-001
Yellow Chromate with .065" Clinch Nuts, Board Side						
9	Male	9609M-ND	4.64	4.00	2.72	172-009-181-011
	Female	9609F-ND	5.28	4.55	3.10	172-009-281-011
15	Male	9615M-ND	6.29	5.43	3.69	172-015-181-011
	Female	9615F-ND	7.77	6.70	4.56	172-015-281-011
25	Male	9625M-ND	8.90	7.68	5.22	172-025-181-011
	Female	9625F-ND	11.54	9.95	6.77	172-025-281-011
37	Male	9637M-ND	12.35	10.65	7.25	172-037-181-011
	Female	9637F-ND	16.15	13.93	9.47	172-037-281-011
50	Male	9650M-ND	15.52	13.38	9.10	172-050-181-011
	Female	9650F-ND	20.82	17.95	12.21	172-050-281-011
Yellow Chromate with .250" Clinch Nuts, Board Side						
9	Female	10609F-ND	5.28	4.55	3.10	172-009-281-021
15	Male	10615M-ND	6.29	5.43	3.69	172-015-181-021
	Female	10615F-ND	7.77	6.70	4.56	172-015-281-021
25	Male	10625M-ND	8.90	7.68	5.22	172-025-181-021
	Female	10625F-ND	11.54	9.95	6.77	172-025-281-021
37	Male	10637M-ND	12.35	10.65	7.25	172-037-181-021
	Female	10637F-ND	16.15	13.93	9.47	172-037-281-021
50	Male	10650M-ND	15.52	13.38	9.10	172-050-181-021
	Female	10650F-ND	20.82	17.95	12.21	172-050-281-021
Yellow Chromate with .250" Clinch Nuts, Mating Side						
9	Male	11609M-ND	4.64	4.00	2.72	172-009-181-031
	Female	11609F-ND	5.28	4.55	3.10	172-009-281-031
15	Male	11615M-ND	6.29	5.43	3.69	172-015-181-031
	Female	11615F-ND	7.77	6.70	4.56	172-015-281-031
25	Male	11625M-ND	8.90	7.68	5.22	172-025-181-031
	Female	11625F-ND	11.54	9.95	6.77	172-025-281-031
37	Male	11637M-ND	12.35	10.65	7.25	172-037-181-031
	Female	11637F-ND	16.15	13.93	9.47	172-037-281-031
50	Male	11650M-ND	15.52	13.38	9.10	172-050-181-031
	Female	11650F-ND	20.82	17.95	12.21	172-050-281-031
Tin Shells						
9	Male	12609M-ND	3.31	2.85	1.94	172-009-182-001
	Male	12609MA-ND◊†	3.17	2.73	1.86	172-009-183L001
	Female	12609F-ND	4.35	3.75	2.55	172-009-282-001
	Female	12609FA-ND◊†	4.23	3.65	2.49	172-009-283L001
15	Male	12615M-ND	4.90	4.23	2.88	172-015-182-001
	Male	12615MA-ND◊†	4.69	4.05	2.75	172-015-183L001
	Female	12615F-ND	6.44	5.55	3.78	172-015-282-001
	Female	12615FA-ND◊†	6.15	5.31	3.61	172-015-283L001
25	Male	12625M-ND	7.48	6.45	4.39	172-025-182-001
	Male	12625MA-ND◊†	7.16	6.17	4.20	172-025-183L001
	Female	12625F-ND	10.06	8.68	5.90	172-025-282-001
	Female	12625FA-ND◊†	9.62	8.30	5.65	172-025-283L001
37	Male	12637M-ND	15.11	13.03	8.86	172-037-182-001
	Male	12637MA-ND◊†	14.43	12.45	8.47	172-037-183L001
	Female	12637F-ND	14.85	12.80	8.71	172-037-282-001
	Female	12637FA-ND◊†	13.29	11.46	7.80	172-037-283L001
50	Male	12650M-ND	14.88	12.83	8.73	172-050-182-001
	Male	12650MA-ND◊†	14.20	12.25	8.33	172-050-183L001
	Female	12650F-ND	19.95	17.20	11.70	172-050-282-001
	Female	12650FA-ND◊†	19.06	16.44	11.18	172-050-283L001
Tin Shells with .065" Clinch Nuts, Board Side						
9	Male	13609M-ND	4.18	3.60	2.45	172-009-182-011
	Male	13609MA-ND◊†	4.08	3.52	2.40	172-009-183L011
	Female	13609F-ND	5.22	4.50	3.06	172-009-282-011
	Female	13609FA-ND◊†	5.15	4.44	3.02	172-009-283L011
15	Male	13615M-ND	5.77	4.98	3.39	172-015-182-011
	Male	13615MA-ND◊†	5.60	4.83	3.29	172-015-183L011
	Female	13615F-ND	7.31	6.30	4.29	172-015-282-011
	Female	13615FA-ND◊†	7.06	6.09	4.15	172-015-283L011
25	Male	13625M-ND	8.35	7.20	4.90	172-025-182-011
	Male	13625MA-ND◊†	8.07	6.96	4.74	172-025-183L011
	Female	13625F-ND	10.93	9.43	6.41	172-025-282-011
	Female	13625FA-ND◊†	10.54	9.09	6.18	172-025-283L011
37	Male	13637M-ND	15.98	13.78	9.37	172-037-182-011
	Male	13637MA-ND◊†	15.35	13.23	9.00	172-037-183L011
	Female	13637F-ND	15.72	13.55	9.22	172-037-282-011
	Female	13637FA-ND◊†	14.20	12.25	8.33	172-037-283L011
50	Male	13650M-ND	15.75	13.58	9.24	172-050-182-011
	Male	13650MA-ND◊†	15.11	13.03	8.87	172-050-183L011
	Female	13650F-ND	20.82	17.95	12.21	172-050-282-011
	Female	13650FA-ND◊†	19.98	17.22	11.71	172-050-283L011
Tin Shells with .250" Clinch Nuts, Board Side						
9	Male	14609M-ND	4.18	3.60	2.45	172-009-182-021
	Male	14609MA-ND◊†	4.08	3.52	2.40	172-009-183L021
	Female	14609F-ND	5.22	4.50	3.06	172-009-282-021
	Female	14609FA-ND◊†	5.15	4.44	3.02	172-009-283L021
15	Male	14615M-ND	5.77	4.98	3.39	172-015-182-021
	Male	14615MA-ND◊†	5.60	4.83	3.29	172-015-183L021
	Female	14615F-ND	7.31	6.30	4.29	172-015-282-021
	Female	14615FA-ND◊†	7.06	6.09	4.15	172-015-283L021
25	Male	14625M-ND	8.35	7.20	4.90	172-025-182-021
	Male	14625MA-ND◊†	8.07	6.96	4.74	172-025-183L021
	Female	14625F-ND	10.93	9.43	6.41	172-025-282-021
	Female	14625FA-ND◊†	10.54	9.09	6.18	172-025-283L021
37	Male	14637M-ND	15.98	13.78	9.37	172-037-182-021
	Male	14637MA-ND◊†	15.35	13.23	9.00	172-037-183L021
	Female	14637F-ND	15.72	13.55	9.22	172-037-282-021
	Female	14637FA-ND◊†	15.72	13.55	9.22	172-037-283L021
50	Male	14650M-ND	15.75	13.58	9.24	172-050-182-021
	Male	14650MA-ND◊†	15.11	13.03	8.87	172-050-183L021
	Female	14650F-ND	20.82	17.95	12.21	172-050-282-021
	Female	14650FA-ND◊†	19.98	17.22	11.71	172-050-283L021
Tin Shells with .250" Clinch Nuts, Mating Side						
9	Male	15609M-ND	4.18	3.60	2.45	172-009-182-031
	Male	15609MA-ND◊†	4.08	3.52	2.40	172-009-183L031
	Female	15609F-ND	5.22	4.50	3.06	172-009-282-031
	Female	15609FA-ND◊†	5.15	4.44	3.02	172-009-283L031
15	Male	15615M-ND	5.77	4.98	3.39	172-015-182-031
	Male	15615MA-ND◊†	5.60	4.83	3.29	172-015-183L031
	Female	15615F-ND	7.31	6.30	4.29	172-015-282-031
	Female	15615FA-ND◊†	7.06	6.09	4.15	172-015-283L031
25	Male	15625M-ND	8.35	7.20	4.90	172-025-182-031
	Male	15625MA-ND◊†	8.07	6.96	4.74	172-025-183L031
	Female	15625F-ND	10.93	9.43	6.41	172-025-282-031
	Female	11625FA-ND◊†	10.54	9.09	6.18	172-025-283L031
37	Male	15637MA-ND◊†	15.35	13.23	9.00	172-037-183L031
	Female	15637F-ND	15.72	13.55	9.22	172-037-282-031
	Female	15637FA-ND◊†	14.20	12.25	8.33	172-037-283L031
50	Male	15650M-ND	15.75	13.58	9.24	172-050-182-031
	Male	15650MA-ND◊†	15.11	13.03	8.87	172-050-183L031
	Female	15650F-ND	20.82	17.95	12.21	172-050-282-031
	Female	15650FA-ND◊†	19.98	17.22	11.71	172-050-283L031

◊ ***NEW!*** ***RoHS Compliant*** † Nickel Shell

D-Sub Backshells

970 Series — Straight/Top Entry: • Die Cast: Lightweight zinc. Plating: Nickel over copper or black • Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-2 • Hardware: Nickel plated steel

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.228	.984	1.571	.610	.465
15	1.555	1.312	1.634	.610	.465
25	2.102	1.852	1.913	.610	.465
37	2.744	2.500	2.110	.610	.465

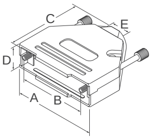

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast Nickel	970-09N-ND	5.80	5.00	3.40	970-009-030-121
9		970-09NE-ND◊	5.22	4.50	3.06	970-009-030R121
15		970-15NE-ND◊	6.21	5.35	3.64	970-015-030R121
25		970-25N-ND	6.90	5.95	4.05	970-025-030-121
25		970-25NE-ND◊	6.21	5.35	3.64	970-025-030R121
37		970-37N-ND	10.56	9.10	6.19	970-037-030-121
37		970-37NE-ND◊	9.54	8.23	5.60	970-037-030R121
9	Black Die Cast	970-09BC-ND	7.34	6.33	4.31	970-009-040-011
15		970-15BC-ND	8.44	7.28	4.95	970-015-040-011
25		970-25BC-ND	8.44	7.28	4.95	970-025-040-011
37		970-37BC-ND	11.22	9.68	6.58	970-037-040-011
9	Metalized Plastic	970-09MPE-ND◊	4.87	4.20	2.86	970-009-020R121
15		970-15MP-ND	5.63	4.85	3.30	970-015-020-121
15		970-15MPE-ND◊	5.08	4.38	2.98	970-015-020R121
25		970-25MP-ND	5.86	5.05	3.44	970-025-020-121
25		970-25MPE-ND◊	5.28	4.55	3.10	970-025-020R121
37		970-37MPE-ND◊	5.86	5.05	3.44	970-037-020R121
9	Black Plastic	970-09BPE-ND◊	2.38	2.05	1.40	970-009-010R011
15		970-15BPE-ND◊	2.38	2.05	1.40	970-015-010R011
25		970-25BPE-ND◊	2.49	2.15	1.47	970-025-010R011
37		970-37BPE-ND◊	2.58	2.23	1.52	970-037-010R011

◊ ***NEW!*** ***RoHS Compliant***

971 Series — 45° Entry: • Die Cast: Lightweight zinc. Plating: Nickel over copper or black • Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-2 • Hardware: Nickel plated steel

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.220	.984	1.496	.610	.465
15	1.595	1.312	1.618	.610	.465
25	2.114	1.852	1.646	.610	.465
37	2.748	2.500	1.646	.610	.465

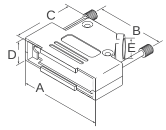

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Nickel	971-09N45-ND	5.80	5.00	3.40	971-009-030-121
9		971-09N45E-ND◊	5.22	4.50	3.06	971-009-030R121
15		971-15N45E-ND◊	6.21	5.35	3.64	971-015-030R121
25		971-25N45-ND	6.90	5.95	4.05	971-025-030-121
25		971-25N45E-ND◊	6.21	5.35	3.64	971-025-030R121
37		971-37N45-ND	10.56	9.10	6.19	971-037-030-121
37		971-37N45E-ND◊	9.48	8.18	5.56	971-037-030R121
9	Black Die Cast	971-09CB45-ND	7.34	6.33	4.31	971-009-040-011
15		971-15CB45-ND	8.44	7.28	4.95	971-015-040-011
25		971-25CB45-ND	8.44	7.28	4.95	971-025-040-011
37		971-37CB45-ND	11.22	9.68	6.58	971-037-040-011
9	Metalized Plastic	971-09MP45E-ND◊	4.87	4.20	2.86	971-009-020R121
15		971-15MP45-ND	5.63	4.85	3.30	971-015-020-121
15		971-15MP45E-ND◊	5.08	4.38	2.98	971-015-020R121
25		971-25MP45-ND	5.86	5.05	3.44	971-025-020-121
25		971-25MP45E-ND◊	5.28	4.55	3.10	971-025-020R121
37		971-37MP45-ND	6.53	5.63	3.83	971-037-020-121
37		971-37MP45E-ND◊	5.86	5.05	3.44	971-037-020R121
9	Black Plastic	971-09BP45E-ND◊	2.38	2.05	1.40	971-009-010R011
15		971-15BP45E-ND◊	2.38	2.05	1.40	971-015-010R011
25		971-25BP45-ND	2.76	2.38	1.62	971-025-010-011
25		971-25BP45E-ND◊	2.49	2.15	1.47	971-025-010R011
37		971-37BP45-ND	2.87	2.48	1.69	971-037-010-011
37		971-37BP45E-ND◊	2.58	2.23	1.52	971-037-010R011

◊ ***NEW!*** ***RoHS Compliant***

(Continued)

D-Sub Backshells *(Cont.)*

972 Series — Slim-Line Clam Shell Style:

- High temperature ABS plastic UL94V-2

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.240	.984	1.339	.591	.453
15	1.575	1.312	1.339	.591	.453
25	2.106	1.852	1.575	.591	.453
37	2.795	2.500	1.575	.591	.453

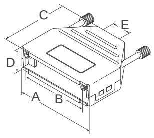

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	972-09SGE-ND◊	2.64	2.28	1.55	972-009-01SR031
15		972-15SGE-ND◊	2.78	2.40	1.64	972-015-01SR031
25		972-25SG-ND	3.51	3.03	2.06	972-025-01S-031
25		972-25SGE-ND◊	2.93	2.53	1.72	972-025-01SR031
37		972-37SGE-ND◊	3.07	2.65	1.81	972-037-01SR031
9	Black Plastic	972-09SBE-ND◊	2.64	2.28	1.55	972-009-01SR011
15		972-15SBE-ND◊	2.78	2.40	1.64	972-015-01SR011
25		972-25SBE-ND◊	2.93	2.53	1.72	972-025-01SR011
37		972-37SB-ND	3.68	3.18	2.16	972-037-01S-011
37		972-37SBE-ND◊	3.07	2.65	1.81	972-037-01SR011
9	Red Plastic	972-09SR-ND◊	2.64	2.28	1.55	972-009-01SR061
15		972-15SR-ND◊	2.76	2.38	1.62	972-015-01SR061
25		972-25SR-ND◊	2.90	2.50	1.70	972-025-01SR061
37		972-37SR-ND◊	3.10	2.68	1.82	972-037-01SR061
9	Yellow Plastic	972-09SY-ND◊	2.64	2.28	1.55	972-009-01SR081
15		972-15SY-ND◊	2.76	2.38	1.62	972-015-01SR081
25		972-25SY-ND◊	2.90	2.50	1.70	972-025-01SR081
37		972-37SY-ND◊	3.10	2.68	1.82	972-037-01SR081

◊ ***NEW!*** *RoHS Compliant*

973 Series — Straight/Top Entry:

• Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-2 (black) • Hardware: Nickel plated steel

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.240	.984	1.221	.598	.335
15	1.575	1.312	1.378	.598	.335
25	2.106	1.852	1.496	.598	.433
37	2.756	2.500	1.575	.598	.433

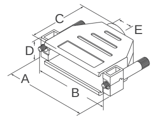

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	973-09MP-ND	7.25	6.25	4.25	973-009-020-121
9		973-09MPE-ND◊	6.53	5.63	3.83	973-009-020R121
15		973-15MPE-ND◊	6.76	5.83	3.97	973-015-020R121
25		973-25MPE-ND◊	6.93	5.98	4.07	973-025-020R121
37		973-37MP-ND	10.41	8.98	6.11	973-037-020-121
37		973-37MPE-ND◊	9.37	8.08	5.50	973-037-020R121
9	Black Plastic	973-09BP-ND	3.86	3.33	2.27	973-009-010-011
9		973-09BPE-ND◊	3.45	2.98	2.03	973-009-010R011
15		973-15BP-ND	4.03	3.48	2.37	973-015-010-011
15		973-15BPE-ND◊	3.65	3.15	2.15	973-015-010R011
25		973-25BP-ND	4.23	3.65	2.49	973-025-010-011
25		973-25BPE-ND◊	3.83	3.30	2.25	973-025-010R011
37		973-37BP-ND	5.13	4.43	3.01	973-037-010-011
37		973-37BPE-ND◊	4.64	4.00	2.72	973-037-010R011

◊ ***NEW!*** *RoHS Compliant*

974 Series — 40° Entry:

• Metalized Plastic: High temperature plastic UL 94V-0. Plating: Nickel over copper • Plastic: High temperature plastic UL 94V-0 (black) • Hardware: Nickel plated steel

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.240	.984	1.457	.598	.335
15	1.575	1.312	1.457	.598	.335
25	2.106	1.852	1.614	.598	.433
37	2.756	2.500	1.614	.598	.433

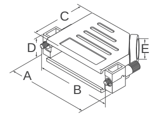

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	974-09MP40-ND	7.25	6.25	4.25	974-009-020-121
9		974-09MP40E-ND◊	6.53	5.63	3.83	974-009-020R121
15		974-15MP40-ND	7.51	6.48	4.41	974-015-020-121
15		974-15MP40E-ND◊	6.76	5.83	3.97	974-015-020R121
25		974-25MP40-ND	7.69	6.63	4.51	974-025-020-121
25		974-25MP40E-ND◊	6.93	5.98	4.07	974-025-020R121
37		974-37MP40-ND	10.41	8.98	6.11	974-037-020-121
37		974-37MP40E-ND◊	9.37	8.08	5.50	974-037-020R121
9	Black Plastic	974-09BP40-ND	3.86	3.33	2.27	974-009-010-011
9		974-09BP40E-ND◊	3.45	2.98	2.03	974-009-010R011
15		974-15BP40-ND	4.03	3.48	2.37	974-015-010-011
15		974-15BP40E-ND◊	3.65	3.15	2.15	974-015-010R011
25		974-25BP40-ND	4.23	3.65	2.49	974-025-010-011
25		974-25BP40E-ND◊	3.83	3.30	2.25	974-025-010R011
37		974-37BP40-ND	5.13	4.43	3.01	974-037-010-011
37		974-37BP40E-ND◊	4.64	4.00	2.72	974-037-010R011

◊ ***NEW!*** *RoHS Compliant*

NEW! 975 Series — Plastic or Metalized:

• 3-Way entry allows choice of entry options or use of multiple cable entries • 4-40 thumbscrews supplied with backshell • Fully tapped assembly holes allow easy assembly, keeping manufacturing cost down • Metalized plastic provides up to 60 dB shielding

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.213	.984	1.800	.600	.300
15	1.541	1.312	1.800	.600	.335
25	2.088	1.852	1.800	.600	.375
37	2.735	2.500	1.800	.600	.400

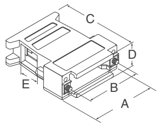

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9†	Metalized Plastic	975-09MPA-ND◊	6.53	5.63	3.83	975-009-020R121
15		975-15MPA-ND◊	6.76	5.83	3.97	975-015-020R121
25		975-25MPA-ND◊	6.93	5.98	4.07	975-025-020R121
37		975-37MPA-ND◊	9.37	8.08	5.50	975-037-020R121
9†	Black Plastic	975-09BPA-ND◊	5.48	4.73	3.22	975-009-010R011
15		975-15BPA-ND◊	5.48	4.73	3.22	975-015-010R011
25		975-25BPA-ND◊	5.48	4.73	3.22	975-025-010R011
37		975-37BPA-ND◊	7.45	6.43	4.37	975-037-010R011

◊ ***NEW!*** *RoHS Compliant* † 9 position has top cable entry only

976 Series — Plastic, Flat Ribbon:

• ABS high temperature plastic 94HB. Complete with 4-40 mating screws, housing screws, and housing nuts.

Conn. Size	Dimensions (Inch) A	B	C	D
9	1.319	.984	.758	.946
15	1.622	1.312	1.102	1.289
25	2.157	1.852	1.642	1.874
37	2.815	2.500	2.283	2.470

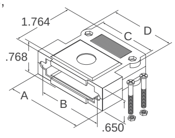

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	976-09RP-ND	1.39	1.20	.82	976-009-010-031
9		976-09RPE-ND◊	1.47	1.27	.87	976-009-010R031
15		976-15RP-ND	1.57	1.35	.92	976-015-010-031
15		976-15RPE-ND◊	1.67	1.44	.98	976-015-010R031
25		976-25RP-ND	1.86	1.60	1.09	976-025-010-031
25		976-25RPE-ND◊	1.93	1.67	1.14	976-025-010R031
37		976-37RP-ND	1.97	1.70	1.16	976-037-010-031
37		976-37RPE-ND◊	2.07	1.79	1.22	976-037-010R031

◊ ***NEW!*** *RoHS Compliant*

977 Series — Plastic or Metalized:

• Available in both plain plastic and metalized for EMI/RFI suppression • Over 60 dB shielding • Materials: Shell – Thermoplastic polyester; UL rated 94V-0; Screw locks – brass; EMI/RFI plating – Electroplated with nickel over copper

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.213	.984	1.594	.646	.275
15	1.563	1.312	1.453	.646	.400
25	2.165	1.852	1.752	.646	.435
37	2.736	2.500	2.096	.984	.535
50	2.640	2.406	1.750	.731	.450

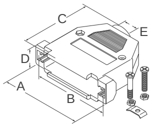

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Shielded Metalized Plastic (for EMI/RFI)	909GM-ND	.75	.65	.45	977-009-020-121
9		909GME-ND◊	.88	.76	.52	977-009-020R121
15		915GM-ND	.89	.77	.53	977-015-020-121
15		915GME-ND◊	1.05	.91	.62	977-015-020R121
25		925GME-ND◊	1.05	.91	.62	977-025-020R121
37		937GM-ND	2.23	1.93	1.31	977-037-020-121
37		937GME-ND◊	2.51	2.16	1.47	977-037-020R121
50		950GM-ND	1.75	1.51	1.03	977-050-020-121
50		950GME-ND◊	1.96	1.69	1.15	977-050-020R121
9	Plain Plastic	909GP-ND	.54	.47	.32	977-009-010-031
9		909GPE-ND◊	.64	.55	.38	977-009-010R031
15		915GP-ND	.67	.58	.40	977-015-010-031
15		915GPE-ND◊	.79	.69	.47	977-015-010R031
25		925GP-ND	.73	.63	.43	977-025-010-031
25		925GPE-ND◊	.85	.74	.50	977-025-010R031
37		937GP-ND	1.00	.86	.59	977-037-010-031
37		937GPE-ND◊	1.17	1.02	.69	977-037-010R031
50		950GP-ND	1.51	1.30	.89	977-050-010-031
50		950GPE-ND◊	1.67	1.45	.99	977-050-010R031

◊ ***NEW!*** *RoHS Compliant*

978 Series — Plastic or Metalized:

• Available in both plain plastic and metalized for EMI/RFI suppression • Over 60 dB shielding • EMI/RFI Plating – Electroplated with nickel over copper • Materials: Shell – Thermoplastic polyester; UL rated 94V-0; Screw locks – brass

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.220	.984	1.693	.655	.276
15	1.535	1.312	1.693	.655	.315
25	2.118	1.852	1.929	.655	.374
37	2.756	2.500	1.929	.655	.433
50	2.650	2.406	1.909	.655	.551

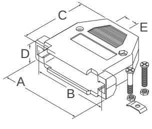

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Un-shielded	909C-ND	1.10	.96	.65	978-009-010-031
9		909CE-ND◊	1.26	1.09	.75	978-009-010R031
15		915C-ND	1.19	1.03	.70	978-015-010-031
15		915CE-ND◊	1.33	1.15	.79	978-015-010R031
25	Un-shielded	925C-ND	1.24	1.07	.73	978-025-010-031
25		925CE-ND◊	1.40	1.21	.82	978-025-010R031
37		937CE-ND◊	1.98	1.71	1.17	978-037-010R031
50		950C-ND	1.75	1.51	1.03	978-050-010-031
50		950CE-ND◊	2.02	1.74	1.19	978-050-010R031
9	Shielded	909CA-ND	1.37	1.19	.81	978-009-020-121
9		909CAE-ND◊	1.55	1.34	.92	978-009-020R121
15		915CA-ND	1.54	1.33	.91	978-015-020-121
15		915CAE-ND◊	1.78	1.54	1.05	978-015-020R121
25		925CA-ND	1.67	1.44	.98	978-025-020-121
25		925CAE-ND◊	1.89	1.63	1.11	978-025-020R121

◊ ***NEW!*** *RoHS Compliant*

979 Series — Die-Cast Zinc:

• Rubber grommet/ strain relief for complete EMI/RFI shielding (over 70db) • Solid die-cast ZINC construction • Supplied complete with rubber grommet kit and male screw locks.

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.22	.79	.63	1.9	.42
15	1.55	1.11	.63	1.9	.42
25	2.10	1.64	.63	1.9	.42
37	2.73	2.27	.63	1.9	.43
50	2.64	2.18	.77	1.9	.73

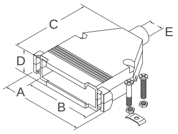

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Die Cast Zinc	909Z-ND	2.64	2.28	1.55	979-009-030-121
9		909ZE-ND◊	2.44	2.11	1.43	979-009-030R121
15		915Z-ND	3.10	2.68	1.82	979-015-030-121
15		915ZE-ND◊	2.78	2.40	1.63	979-015-030R121
25		925ZE-ND◊	3.41	2.94	2.00	979-025-030R121
37		937ZE-ND◊	5.08	4.39	2.99	979-037-030R121
50		950Z-ND	7.22	6.23	4.24	979-050-030-121
50		950ZE-ND◊	7.22	6.23	4.24	979-050-030R121

◊ ***NEW!*** *RoHS Compliant*

979 Series — Plastic or Metalized Backshell:

• ABS high temperature plastic UL94HB • Chrome plating

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.232	.984	1.913	.656	.354
15	1.555	1.312	1.895	.669	.374
25	2.100	1.852	1.900	.655	.397
37	2.748	2.500	1.900	.655	.512
50	2.697	2.406	1.900	.770	.512

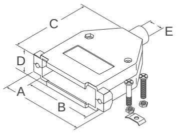

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	979-09PG-ND	1.22	1.05	.72	979-009-010-031
9		979-09PGE-ND◊	1.30	1.13	.77	979-009-010R031
15		979-15PG-ND	1.31	1.13	.77	979-015-010-031
15		979-15PGE-ND◊	1.24	1.07	.73	979-015-010R031
25		979-25PG-ND	1.39	1.20	.82	979-025-010-031
25		979-25PGE-ND◊	1.33	1.15	.79	979-025-010R031
37		979-37PG-ND	2.61	2.25	1.53	979-037-010-031
37		979-37PGE-ND◊	2.47	2.13	1.45	979-037-010R031
50		979-50PG-ND	2.78	2.40	1.64	979-050-010-031
50		979-50PGE-ND◊	2.64	2.28	1.55	979-050-010R031
9	Metalized Plastic	979-09MP-ND	1.71	1.48	1.01	979-009-020-121
9		979-09MPE-ND◊	1.64	1.41	.96	979-009-020R121
15		979-15MP-ND	1.86	1.60	1.09	979-015-020-121
15		979-15MPE-ND◊	1.77	1.53	1.04	979-015-020R121
25		979-25MP-ND	2.12	1.83	1.25	979-025-020-121
25		979-25MPE-ND◊	2.00	1.73	1.18	979-025-020R121
37		979-37MPE-ND◊	3.40	2.94	2.00	979-037-020R121
50		979-50MPE-ND◊	3.67	3.17	2.16	979-050-020R121

◊ ***NEW!*** *RoHS Compliant*

980 / 981 Series — Ethernet:

• **Material:** Die-cast zinc alloy, nickel plated. Complete with housing screws and housing nuts.

Conn. Size	Dimensions (Inch) A	B	C
9	.984	1.240	1.850
15	1.312	1.555	2.323
25	1.852	2.106	2.835

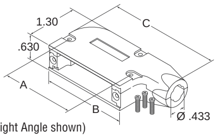

(Series 981 - Right Angle shown)

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
15	Series 980 Straight	915ES-ND	4.01	3.46	2.36	980-015-030-121
9	Series 981	909ER-ND	4.09	3.53	2.40	981-009-030-121
9	Series 981	909ERE-ND◊	4.27	3.68	2.51	981-009-030R121
15	Right	915ER-ND	4.36	3.76	2.56	981-015-030-121
15	Right	915ERE-ND◊	4.89	4.22	2.87	981-015-030R121
25	Angle	925ER-ND	4.29	3.70	2.52	981-025-030-121
25	Angle	925ERE-ND◊	4.50	3.89	2.65	981-025-030R121

◊ ***NEW!*** *RoHS Compliant*

(Continued)

D-Sub Backshells *(Cont.)*

982 Series — Plastic or Metalized:

• Cable Exit Top or Side • Available in both plain plastic and metalized for EMI/RFI suppression • Over 60dB shielding • Operating Temperature: -35°C ~ 95°C • Materials: Shell: Thermoplastic polyester; UL rated 94V-0; Screw locks: brass; EMI/RFI plating: Electroplated with nickel over copper. Electroplated parts not UL rated

Conn. Size	Dimensions (Inch) A	B	C	D	E
9*	1.23	.984	1.38	.630	.350
15	1.56	1.312	1.61	.630	.374
25	2.10	1.852	1.81	.630	.444
37	2.74	2.5	1.81	.630	.444
50	2.65	2.406	1.81	.735	.543

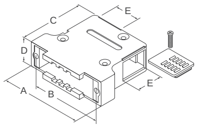

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Gray Plastic	909U-ND*	3.39	2.93	1.99	982-009-010-031
15		915U-ND	4.70	4.05	2.76	982-015-010-031
25		925U-ND	3.66	3.16	2.15	982-025-010-03
50		950U-ND	5.12	4.42	3.01	982-050-010-031
9	Shielded Metalized Plastic	909UA-ND*	6.39	5.51	3.75	982-009-020-121
15		915UA-ND	8.99	7.75	5.27	982-015-020-1
25		925UA-ND	6.92	5.97	4.06	982-025-020-121
37		937UA-ND	11.25	9.70	6.60	982-037-020-121
50		950UA-ND	8.83	7.62	5.18	982-050-020-121

* Part Number 909U-ND and 909UA-ND do not have a side cable exit.

983 Series — Plain Plastic or Metalized Plastic:

• May be used as a "Gender Changer," pin-out changer, or standard backshell • Snap-together assembly • Half-clamp with self-tapping screws provides positive strain-relief • Available in plain plastic or metalized for EMI/RFI shielding

Conn. Size	Dimensions (Inch) A	B	C	D	Max. Cable Dia
9	1.25	.98	1.92	.65	.27
15	1.56	1.31	1.92	.63	.47
25	2.12	1.85	1.92	.63	.47
37	2.75	2.50	1.92	.63	.47
50	2.75	2.40	1.92	.75	.47

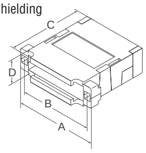

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Plain Plastic	909P-ND	1.13	.98	.67	983-009-010-031
9		909PE-ND◊	1.27	1.10	.75	983-009-010R031
15		915P-ND	1.37	1.19	.81	983-015-010-031
15		915PE-ND◊	1.51	1.31	.89	983-015-010R031
25		925P-ND	1.71	1.48	1.01	983-025-010-031
25		925PE-ND◊	1.81	1.56	1.07	983-025-010R031
37		937P-ND	2.78	2.40	1.64	983-037-010-031
37		937PE-ND◊	3.08	2.66	1.81	983-037-010R031
50		950P-ND	2.93	2.53	1.72	983-050-010-031
50		950PE-ND◊	3.25	2.80	1.91	983-050-010R031

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	909M2-ND	1.73	1.50	1.02	983-009-020-121
9		909M2E-ND◊	1.99	1.72	1.17	983-009-020R121
15		915M2-ND	1.86	1.60	1.09	983-015-020-121
15		915M2E-ND◊	2.13	1.84	1.26	983-015-020R121
25		925M2-ND	2.37	2.05	1.39	983-025-020-121
25		925M2E-ND◊	2.73	2.35	1.60	983-025-020R121
37		937M2-ND	3.07	2.65	1.81	983-037-020-121
37		937M2E-ND◊	3.54	3.05	2.08	983-037-020R121
50		950M2-ND	3.77	3.25	2.21	983-050-020-121
50		950M2E-ND◊	4.34	3.74	2.55	983-050-020R121

◊ ***NEW!*** *RoHS Compliant*

993 Series — 45° Economy:

• **Material:** Metalized Plastic and Plastic: ABS high temperature plastic, 94HB. Metalized Plating: Chrome. Included are housing screws, housing nuts, 4-40 thumbscrews, strain relief clamps, and strain relief screws.

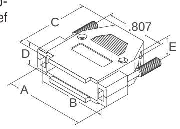

Conn. Size	Dimensions (Inch) A	B	C	D	E
9	1.213	.984	1.595	.630	.260
25	2.165	1.852	2.095	.641	.400

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Metalized Plastic	993-09MP45-ND	1.86	1.60	1.09	993-009-020-121
9		993-09MP45E-ND◊	1.71	1.48	1.01	993-009-020R121
25		993-25MP45-ND	2.00	1.73	1.18	993-025-020-121
25		993-25MP45E-ND◊	1.86	1.60	1.09	993-025-020R121
9	Plastic	993-109P45-ND	1.31	1.13	.77	993-009-010-031
9		993-109P45E-ND◊	1.22	1.05	.72	993-009-010R031
25		993-125P45-ND	1.45	1.25	.85	993-025-010-031
25		993-125P45E-ND◊	1.33	1.15	.79	993-025-010R031

◊ ***NEW!*** *RoHS Compliant*

994 Series — Die Cast, Ethernet:

• **Material:** Die cast zinc alloy, nickel plated. Included are housing screw and housing nuts.

Conn. Size	Dimensions (Inch) A	B	C	D	E	F
9	1.244	.984	1.82	.614	.433	.790
15	1.575	1.312	1.82	.665	.433	1.135
25	2.106	1.852	1.82	.630	.433	1.640

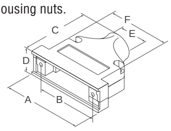

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
9	Straight	994-09DCE-ND◊	3.13	2.70	1.84	994-009-030R121
15		994-15DC-ND	3.57	3.08	2.10	994-015-030-121
15		994-15DCE-ND◊	3.39	2.93	1.99	994-015-030R121
25		994-25DC-ND	3.94	3.40	2.32	994-025-030-121
25		994-25DCE-ND◊	3.65	3.15	2.15	994-025-030R121

◊ ***NEW!*** *RoHS Compliant*

Non-Conductive Rubber Grommet Sets: For better EMI/RFI Shielding and/or strain relief. For use with D-Sub Backshells.

Note: Grom-9/25 and Grom-50 have four grommets per set and Grom-37 has three per set.

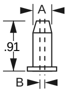

Digi-Key Part No.	Outside Diameter A (Inch)	Inside Diameter B (Inch)			
901G-ND	.400	.185	.248	.290	.335
902G-ND	.620	.320	.410	.500	—
903G-ND	.730	.340	.425	.495	.650

Description	Digi-Key Part No.	Price Each 5	25	100	NorComp Part No.
DB 9/25 Grom. Set	901G-ND	.40	.34	.24	162-000-925-000
DB 37 Grom. Set	902G-ND	1.06	.92	.63	162-000-037-000
DB 50 Grom. Set	903G-ND	1.45	1.25	.85	162-000-050-000

112 Series — Solder Cup with Right Angle Backshell (Centronics Type):

• **Material:** Insulator: Glass-filled thermoplastic, UL Rated 94V-0. Contacts: Copper alloy. Shell: Steel, nickel plated. Contact Plating: Gold plated.

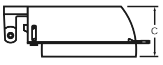

Conn. Size	Dimensions (Inch) A	B	C	D
50	3.780	2.538	1.325	.646

Fig. 1

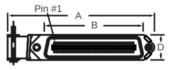

Fig. 2

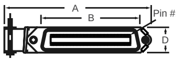

Fig. 3

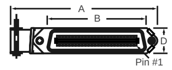

Fig. 4

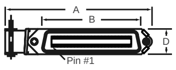

Fig.	No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
1	50	Male	1550RM-ND	9.19	7.93	5.39	112-050-103-011
1	50	Male	1550RMA-ND◊	8.92	7.70	5.24	112-050-103L011
2	50	Female	1550RF-ND	9.19	7.93	5.39	112-050-203-011
2	50	Female	1550RFA-ND◊	8.92	7.70	5.24	112-050-203L011
3	50	Male	1550LM-ND	9.19	7.93	5.39	112-050-103-021
3	50	Male	1550LMA-ND◊	8.92	7.70	5.24	112-050-103L021
4	50	Female	1550LF-ND	9.19	7.93	5.39	112-050-203-021
4	50	Female	1550LFA-ND◊	8.92	7.70	5.24	112-050-203L021

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Hardware

Fig. 1

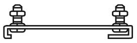

Fig. 2

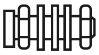

Fig. 3

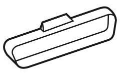

Fig. 4

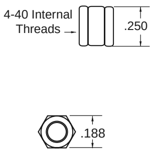

Fig. 5

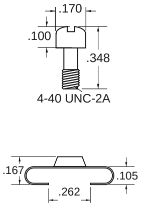

Fig. 6

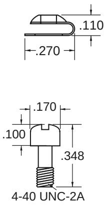

Fig. 7

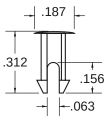

Fig. 8

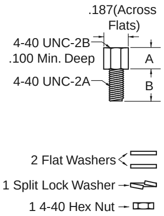

Fig. 9

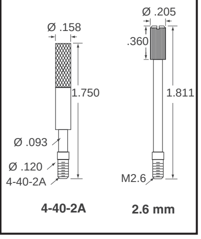

T2020-ND Insertion/Removal Tool.. **$8.76/1**

Fig.	Description	Dim. (Inch) A	B	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
	Slide Lock Posts for Ethernet Hoods (980, 981 and 994 Series)							
1	9-Pin, D-Sub, or Ethernet	—	—	160-09SL-ND	1.77	1.53	1.04	160-009-002-031
	15-Pin, D-Sub, or Ethernet			T2040-ND	1.29	1.12	.76	160-015-003-031
	25-Pin, D-Sub, or Ethernet			160-25SL-ND	2.15	1.85	1.26	160-025-004-031
2	2 Connectors Required	—	—	T2042-ND	1.34	.58	.40	160-000-005-041
	Dust Covers							
3	Female, 9-Position D-Sub	—	—	909DC-ND	.52	.45	.31	160-000-209-00
	Female, 15-Position D-Sub	—	—	915DC-ND	.52	.45	.31	160-000-215-00
	Female, 25-Position D-Sub	—	—	925DC-ND	.52	.45	.31	160-000-225-00
	Female, 37-Position D-Sub	—	—	160-37F-ND	.61	.53	.36	160-000-237-000
	Female, 50-Position D-Sub	—	—	160-50F-ND	.75	.65	.45	160-000-250-000
	Male, 9-Position D-Sub	—	—	160-09M-ND	.55	.48	.33	160-000-109-000
	Male, 15-Position D-Sub	—	—	160-15M-ND	.55	.48	.33	160-000-115-000
	Male, 25-Position D-Sub	—	—	160-25M-ND	.55	.48	.33	160-000-125-000
	Male, 37-Position D-Sub	—	—	160-37M-ND	.61	.53	.36	160-000-137-000
	Male, 50-Position D-Sub	—	—	160-50M-ND	.75	.65	.45	160-000-150-000
	Dust Covers – Shielded							
3	Female, 9-Position D-Sub	—	—	160-209F-ND	3.13	2.70	1.84	160-020-209-000
	Female, 15-Position D-Sub	—	—	160-215F-ND	3.28	2.83	1.93	160-020-215-000
	Female, 25-Position D-Sub	—	—	160-225F-ND	3.54	3.05	2.08	160-020-225-000
	Male, 9-Position D-Sub	—	—	160-209M-ND	2.87	2.48	1.69	160-020-109-000
	Male, 15-Position D-Sub	—	—	160-215M-ND	2.73	2.35	1.60	160-020-115-000
	Male, 25-Position D-Sub	—	—	160-225M-ND	3.22	2.78	1.89	160-020-125-000
	4-40 Female Coupling Nut							
4	Brass, Plating Yellow Chromate	—	—	160-06YC-ND	.25	.15	.11	160-000-006-042
	Brass, Plating Nickel	—	—	160-06N-ND	.25	.15	.11	160-000-006-032
	4-40 Male Screwlock with Slip-On Retainer							
5	Steel, Plating Tin	—	—	160-01MT-ND	.87	.75	.51	160-000-001-051
	Steel, Plating Yellow Chromate	—	—	160-01MYC-ND	.81	.70	.48	160-000-001-041
	4-40 Male Screwlock with Clip-On Retainer (2 screws, 2 clips)							
6	Screw - Steel, Tin Plating Clip - Stainless Steel	— —	— —	160-02M-ND	.81	.70	.48	160-000-002-051
	Plastic Clips for Retaining Connectors to PC .062" Board							
7	Nylon	—	—	163-01P-ND	.25	.15	.11	163-001-000-000
	4-40 Female Screwlock Assembly							
8	Steel, Plating Yellow Chromate	.187	.312	160-10F-ND	.70	.60	.41	160-000-010-041
	Steel, Plating Yellow Chromate	.187	.625	160-11F-ND	.99	.85	.58	160-000-011-041
	Steel, Plating Yellow Chromate	.250	.156	160-12F-ND	.81	.70	.48	160-000-012-041
	Steel, Plating Yellow Chromate	.197	.197	160-13F-ND	.55	.48	.33	160-000-013-041
	Steel, Plating Yellow Chromate	.197	.433	160-16F-ND	.64	.55	.38	160-000-016-041
	4-40 Thumbscrew - Nickel Plated Steel Finish							
9	For 977/978/979 Series Backshells	—	—	160-02TS-ND	.26	.23	.16	160-000-050-031

NEW! CONEC D-Sub Connectors

TECHNOLOGY IN CONNECTORS™

Fig. 1

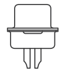

Fig. 2

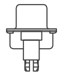

Fig. 3

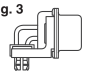

Fig. 4

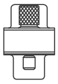

Fig. 5

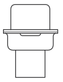

CONEC® D-Subminiature Connectors conform to DIN 41652 and to MIL-C-24308. The Subminiature Connectors consist of a plug and socket connector and conform to IEC standard 48 B. These connectors are used in industrial control systems, computer environment and in telecommunication equipment. Precision screw machine contacts are gold plated over nickel. The product line is UL (E202784), CSA (LR 115000-1) and VDE (40000440) approved. The trapezoidal shaped shell is used for mechanical protection, electrical shielding and polarization. The CONEC connectors consist of plug and socket connectors with two or three rows. They are compatible and interchangeable with all D-Subminiature connectors on the market.

Technical Data: • **Insulators:** Polyester GF UL 94 V-0 • **Contacts:** Copper Alloy • **Contact Finish:** Hard-gold-plated over nickel • **Shell:** Steel tin plated • **Working Voltage:** 125V (D-Subminiature Standard 9,15, 25, 37 and 50 position); 60V (D-Subminiature High Density 15, 25, 44, 62 and 78 position) • **Current Rating:** 7.5A UL (D-Subminiature Standard 9,15, 25, 37 and 50 position); 3.0A UL (D-Subminiature High Density 15, 25, 44, 62 and 78 position) • **Insulation Resistance:** 5G Ω • **Operating Temperature:** -55°C ~ 125°C

No of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Fig. 1 — Solder Cup						
9	Male	626-1026-ND	2.70	1.83	1.44	163A11069X
9	Female	626-1031-ND	3.00	2.00	1.63	164A10019X
15	Male	626-1027-ND	3.18	2.12	1.73	163A11079X
15	Female	626-1032-ND	3.92	2.70	2.21	164A10029X
25	Male	626-1028-ND	3.86	2.66	2.17	163A11089X
25	Female	626-1033-ND	5.14	3.65	3.00	164A10039X
37	Male	626-1029-ND	5.27	3.81	3.12	163A11099X
37	Female	626-1034-ND	6.68	4.94	4.09	164A10049X
50	Male	626-1030-ND	6.01	4.39	3.59	163A11109X
50	Female	626-1035-ND	8.40	6.30	5.25	164A10059X
Fig 1 — Solder Cup with 4-40 Insert						
9	Male	626-1036-ND	2.98	2.02	1.59	163A11269X
9	Female	626-1041-ND	3.45	2.30	1.88	164A10219X
15	Male	626-1037-ND	3.54	2.44	1.99	163A11279X
15	Female	626-1042-ND	4.20	2.93	2.40	164A10229X
25	Male	626-1038-ND	3.96	2.64	2.16	163A11289X
25	Female	626-1043-ND	5.28	3.86	3.15	164A10239X
37	Male	626-1039-ND	5.46	3.99	3.26	163A11299X
37	Female	626-1044-ND	7.03	5.20	4.30	164A10249X
50	Male	626-1040-ND	6.42	4.57	3.83	163A11309X
50	Female	626-1045-ND	8.78	6.59	5.49	164A10259X
Fig 1 — Solder Cup High Density with 4-40 Insert						
15	Male	626-1046-ND	4.45	3.11	2.55	163A16649X
15	Female	626-1049-ND	5.38	3.94	3.21	164A17059X
26	Male	626-1047-ND	6.42	4.57	3.83	163A16659X
26	Female	626-1050-ND	9.67	7.06	6.05	164A17069X
44	Male	626-1048-ND	8.64	6.48	5.40	163A16669X
44	Female	626-1051-ND	13.46	10.35	8.68	164A17079X
Fig. 2 — PC Mount Vertical with 4-40 Spacer Clip						
9	Female	626-1052-ND	4.42	3.09	2.53	164A16569X
15	Female	626-1053-ND	4.89	3.58	2.92	164A16579X
25	Female	626-1054-ND	5.93	4.22	3.54	164A16589X
Fig. 3 — PC Mount Right Angle with 4-40 Insert						
9	Male	626-1055-ND	6.29	4.60	3.76	163A17529X
9	Female	626-1058-ND	6.33	4.69	3.88	164A17939X
15	Male	626-1056-ND	7.63	5.49	4.58	163A17539X
15	Female	626-1059-ND	8.10	5.84	4.86	164A17949X
25	Male	626-1057-ND	9.58	6.99	5.99	163A17549X
25	Female	626-1060-ND	9.78	7.44	6.38	164A17959X
Fig. 3 — High Density PC Mount Right Angle with 4-40 Insert						
15	Male	626-1061-ND	10.19	7.76	6.65	163A17769X
15	Female	626-1062-ND	11.66	8.97	7.52	164A18179X
Fig. 5 — Crimp Shell						
9	Male	626-1063-ND	1.52	.99	.72	163X10019X
9	Female	626-1068-ND	1.73	1.11	.84	164X11769X
15	Male	626-1064-ND	1.76	1.13	.86	163X10029X
15	Female	626-1069-ND	1.86	1.20	.92	164X11779X
25	Male	626-1065-ND	1.60	1.01	.76	163X10039X
25	Female	626-1070-ND	1.87	1.24	.96	164X11789X
37	Male	626-1066-ND	2.31	1.57	1.21	163X10049X
37	Female	626-1071-ND	2.47	1.68	1.30	164X11799X
50	Male	626-1067-ND	3.00	2.00	1.63	163X10059X
50	Female	626-1072-ND	3.00	2.00	1.63	164X11809X
Crimp Contacts						
—	Male	626-1073-ND	.45	.26	.17	161A18299X
—	Female	626-1075-ND	.92	.60	.44	162A18709X
—	Male	626-1074-ND	.51	.30	.20	161A18309X
—	Female	626-1076-ND	1.00	.63	.47	162A18719X
Fig. 5 — High Density Crimp Shell						
15	Male	626-1077-ND	3.01	2.04	1.61	163X10169X
15	Female	626-1080-ND	3.57	2.46	2.01	164X11949X
26	Male	626-1078-ND	3.57	2.46	2.01	163X10179X
26	Female	626-1081-ND	4.00	2.76	2.25	164X11959X
44	Male	626-1079-ND	2.56	1.68	1.36	163X10189X
44	Female	626-1082-ND	3.51	2.34	1.91	164X11969X
High Density Crimp Contacts						
—	Male	626-1083-ND	.31	.18	.12	161A18009X
—	Female	626-1084-ND	.46	.28	.19	162A18419X

Filtered D-Sub Connectors

CONEC® Filter Conntctors are the ideal solution to reduce or eleminate electro magnetic interference (EMI/RFI) The complete series are UL (E 202784 CSA (LR 115000-1 and VDE (40000441) approved. **Technical Data:** • **Insulators:** Polyester GF UL 94 V-0 • **Contacts:** Copper Alloy • **Contact Finish:** Gold over nickel, solder area tin plated • **Shell:** Steel tin plated • **Insulation Resistance:** ≥1GΩ @ 100 VDC • **Current Rating:** 5.0A (20°C), Standard D-Sub 9-, 15-, 25, 37 and 50 positions; 3.0A (20°C), High Density D-Sub 15-, 25-, 44-, 62- and 78 positions • **Temperature Range Working:** -25°C ~ 105°C, Standard D-Sub 9-, 15-, 25, 37 and 50 positions; -25°C ~ 85°C, High Density D-Sub 15-, 25-, 44-, 62- and 78 positions

No of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
Fig. 1 — Solder Cup						
9	Male	626-1004-ND	8.03	6.11	5.24	241A26960X
9	Female	626-1007-ND	8.64	6.48	5.40	242A26860X
15	Male	626-1005-ND	10.41	8.19	6.86	241A26970X
15	Female	626-1008-ND	11.27	8.67	7.27	242A26870X
25	Male	626-1006-ND	13.51	10.44	8.75	241A26980X
25	Female	626-1009-ND	13.76	11.14	9.34	242A26880X
Fig. 1 — Solder Cup with 4-40 Insert						
9	Male	626-1010-ND	10.10	7.69	6.59	241A27120X
9	Female	626-1013-ND	10.33	7.86	6.74	242A27020X
15	Male	626-1011-ND	12.52	9.68	8.26	241A27130X
15	Female	626-1014-ND	13.11	10.14	8.50	242A27030X
25	Male	626-1012-ND	15.16	11.92	10.29	241A27140X
25	Female	626-1015-ND	15.96	12.54	10.83	242A27040X
Fig. 2 — PCB Mount Vertical with 4-40 Spacer Clip						
9	Female	626-1016-ND	10.81	8.23	7.05	242A15030X
15	Female	626-1017-ND	13.21	10.16	8.52	242A15040X
25	Female	626-1018-ND	20.73	16.29	14.07	242A15050X
Fig. 2 — High Density PCB Mount Vertical with 4-40 Spacer Clip						
15	Female	626-1019-ND	14.81	11.64	10.05	242A20650X
Fig. 3 — PCB Mount Right Angle with 4-40 Insert						
9	Male	626-1020-ND	11.22	8.54	7.32	241A16060X
9	Female	626-1023-ND	12.89	9.92	8.31	242A17660X
15	Male	626-1021-ND	13.41	10.32	8.65	241A16070X
15	Female	626-1024-ND	13.30	10.84	9.31	242A17670X
25	Male	626-1022-ND	16.30	13.20	11.06	241A16080X
25	Female	626-1025-ND	18.65	15.10	12.66	242A17680X
Fig. 4 — D-Sub C-Filter Adapter						
9	—	626-1000-ND	11.27	8.67	7.27	243A10050X
15	—	626-1001-ND	13.00	10.23	8.57	243A10060X
25	—	626-1002-ND	16.63	12.86	10.78	243A10070X
Fig. 4 — High Density D-Sub C-Filter Adapter						
15	—	626-1003-ND	16.98	13.13	11.01	243A11680X

Hardware

Fig. 1

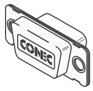

Fig. 2

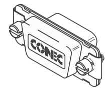

Fig. 3

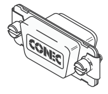

Fig. 4

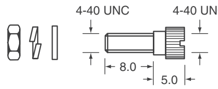

Fig. 5

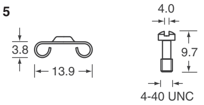

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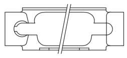

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
D-Sub Covers						
1	Male, 9-Pos.	626-1241-ND	1.33	.84	.63	165X13129X
	Female, 9-Pos.	626-1238-ND	1.41	.89	.67	165X12969X
	Male, 15-Pos.	626-1242-ND	1.37	.87	.65	165X13139X
	Female, 15-Pos.	626-1239-ND	1.41	.89	.67	165X12979X
	Male, 25-Pos.	626-1243-ND	1.59	.99	.76	165X13149X
	Female, 25-Pos.	626-1240-ND	1.37	.87	.65	165X12989X
2	Male with Flange, 9-Pos.	626-1247-ND	2.01	1.33	1.03	165X16769X
	Female with Flange, 9-Pos.	626-1244-ND	2.07	1.35	1.06	165X16719X
	Male with Flange, 15-Pos.	626-1248-ND	2.18	1.46	1.15	165X16779X
	Female with Flange, 15-Pos.	626-1245-ND	2.24	1.50	1.18	165X16729X
	Male with Flange, 25-Pos.	626-1249-ND	2.18	1.46	1.15	165X16789X
	Female with Flange, 25-Pos.	626-1246-ND	2.04	1.32	1.04	165X16739X
Hood - Water Resistant, Shielded for EMI/RFI						
3	Male with Flange, 9-Pos.	626-1253-ND	5.93	4.34	3.54	165X14769X
	Female with Flange, 9-Pos.	626-1250-ND	5.98	4.37	3.57	165X14719X
	Male with Flange, 15-Pos.	626-1254-ND	5.64	4.13	3.37	165X14779X
	Female with Flange, 15-Pos.	626-1251-ND	5.82	4.26	3.48	165X14729X
	Male with Flange, 25-Pos.	626-1255-ND	5.51	4.03	3.29	165X14789X
	Female with Flange, 25-Pos.	626-1252-ND	5.64	4.13	3.37	165X14739X
Screw Locking (2 Screws, 2 Washers, 2 Spring Rings, and 2 Nuts)						
4	Screw Locking 4-40 UNC/13mm	626-1256-ND	.88	.58	.42	160X10359X
	Screw Locking Bolt Set Packed	626-1257-ND	2.15	1.43	1.13	160X10329X
D-Sub Clamp (2 Clamps, 2 Screws)						
5	Steel Nickel Plated	626-1258-ND	.92	.60	.44	160X10259X
Slide Lock Kits						
6	9-Pos.(1 Frame, 2 Self-tapping Screws)	626-1259-ND	2.07	1.35	1.06	160X10159X
	15-Pos.(1 Frame, 2 Self-tapping Screws)	626-1260-ND	2.18	1.41	1.11	160X10169X
	25-Pos.(1 Frame, 2 Self-tapping Screws)	626-1261-ND	1.97	1.31	1.01	160X10179X
	9-Pos.(1 Frame, 2 Screws UNC 4-40, 2 Washers, 2 Nuts UNC 4-40)	626-1262-ND	2.24	1.50	1.18	160X10689X
	15-Pos.(1 Frame, 2 Screws UNC 4-40, 2 Washers, 2 Nuts UNC 4-40)	626-1263-ND	2.21	1.48	1.16	160X10699X
	25-Pos.(1 Frame, 2 Screws UNC 4-40, 2 Washers, 2 Nuts UNC 4-40)	626-1264-ND	2.15	1.43	1.13	160X10709X
—	Slide Lock Bolt	626-1265-ND	.88	.58	.42	160X10209X
	Slide Lock, Nickel Plated	626-1221-ND	.66	.38	.26	165X10119X

NEW! CONEC TECHNOLOGY IN CONNECTORS™

D-Sub Backshells

The increasing market and the many different applications require a large selection of Hoods, **CONEC®** manufactures one of the largest selection of products in the industry. **CONEC** hoods are UL (E202784 and CSA (LR 115000-1) approved.

Metal Hood with Straight Exit:
EMI/RFI Shielding and Jack Screws.

Specifications: • **Material and Finish:** Zinc Die Cast, Nickel Plated • **Cable Strain Relief:** Steel Fibre Reinforced Polycarbonate UL94V-0 • **Temperature Range:** -40°C ~ 120°C

No. of Pins	Dimensions (mm) A	B	C
9	31.0	25.0	40.7
15	39.5	33.3	42.9
25	53.4	47.0	49.7
37	70.9	63.5	54.6

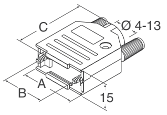

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Metal-lized	626-1176-ND	5.53	3.92	3.22	165X02609XE
15		626-1177-ND	6.42	4.70	3.83	165X02619XE
25		626-1178-ND	6.50	4.75	3.88	165X02629XE
37		626-1179-ND	8.20	5.91	4.92	165X02639XE

45° Metallized with Side Exit:
EMI/RFI Shielding with Jack Screws.

Specifications: • **Material and Finish:** Zinc Die Cast, Nickel Plated • **Cable Strain Relief:** Steel Fibre Reinforced Polycarbonate UL94V-0 • **Temperature Range:** -40°C ~ 120°C

No. of Pins	Dimensions (mm) A	B	C
9	31.0	25.0	37.2
15	39.5	33.3	41.2
25	53.2	47.0	41.2
37	69.7	63.5	41.2

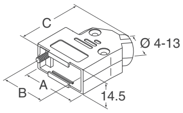

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	45° Metal-lized	626-1180-ND	5.53	3.92	3.22	165X02689XE
15		626-1181-ND	5.58	3.96	3.25	165X02699XE
25		626-1182-ND	5.67	4.02	3.30	165X02709XE
37		626-1183-ND	8.20	5.91	4.92	165X02719XE

Plastic Hood 45° Black :
Shielded Version with Metal Screw

Specifications: • **Hood:** PC GF 20 UL 94 V-0; Black • **Full Metal Screw:** Ms 58 Hard, Nickel Plated • **Cable Clamp**: Cu Ni 18 An 20 • **Screw for Cable Clamp:** Steel, Nickel Plated

No. of Pins	Dimensions (mm) A	B	C±0.2	D	øE
9	31.20	25.0	40.95	15.0	8.0
15	39.52	33.3	41.95	15.0	9.0
25	53.42	47.0	41.95	15.0	11.0
37	69.70	63.5	41.95	15.0	11.0
50	67.30	61.1	41.95	19.0	14.5

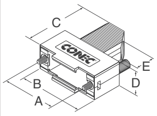

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	45° Black	626-1184-ND	8.08	5.82	4.85	165X00779XE
15		626-1185-ND	8.62	6.47	5.39	165X00789XE
25		626-1186-ND	11.50	8.75	7.50	165X00799XE

Plastic Hood with Straight Exit:
Straight Cable Exit with Jack Screws **Specifications:** **Black:** • **Hood:** Polyamid + GF/Black • **Jackscrew:** Brass, nickel plated • **Nut:** Brass, Nickel Plated • **Strain Relief:** Steel • **Pan-Head Screw:** Brass, Nickel Plated • **Countersunk-Head Screw:** Brass, Nickel Plated **Metallized:** • **Hood:** ABS V0. Metallized • **Cable Strain Relief:** Steel, Nickel Plated • **Jack Screw:** Brass, Nickel Plated • **Countersunk-Head Screw:** Steel, Nickel Plated

No. of Pins	Dimensions (mm) A	B	C	D	E
9	34.0	25.0	27.75	14.5	8.5
15	42.3	33.3	39.75	14.5	10.0
25	56.0	47.0	39.75	14.5	10.5
37	72.5	63.5	39.75	14.5	10.5
50	70.0	61.1	50.00	21.0	10.5

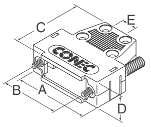

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Black	626-1187-ND	5.29	3.69	3.03	165X10139XE
15		626-1188-ND	5.21	3.63	2.98	165X10149XE
25		626-1189-ND	5.64	4.00	3.28	165X10159XE
37		626-1190-ND	5.95	4.36	3.55	165X10169XE
50		626-1191-ND	9.98	7.28	6.24	165X10179XE
9	Straight Metal-lized	626-1192-ND	7.28	5.39	4.46	165X10909XE
15		626-1193-ND	7.60	5.63	4.66	165X10919XE
25		626-1194-ND	8.00	5.76	4.80	165X10929XE

Plastic Hood:
For flat cable IDC D-Subminiature

No. of Pins	Dimensions (mm) A	B	E
25	53.2	47.0	35.8

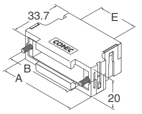

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
25	IDC Gray	626-1237-ND	4.61	3.18	2.60	165X14029XE

Plastic Hood Straight Black:
Big space inside

Contents: • **1x Hood + Cover:** PBT UL 94 V-0, Black • **1x Press Insert:** PBT UL 94 V-0, Black • **2x Jackscrews:** Brass, Nickel Plated • **2x Screw for Strain Relief:** Steel, Zinc Plated • **2x Cover Screws:** Steel, Nickel Plated • **1x Strain Relief:** Steel, Nickel Plated **Specifications:** • **Temperature Range:** -33°C ~ 90°C

No. of Pins	Dimensions (mm) A	B	C	D	øE
9	32.9	25.0	41.8	16.3	11.0
15	41.2	33.3	47.8	16.3	11.0
25	54.9	47.0	54.8	16.3	12.0
37	71.4	63.5	57.8	18.7	15.0
50	69.0	61.1	57.8	19.5	14.0

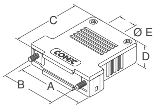

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Black	626-1195-ND	4.76	3.20	2.68	165X13369XE
15		626-1196-ND	4.82	3.36	2.76	165X13379XE
25		626-1197-ND	4.98	3.48	2.85	165X13389XE
37		626-1198-ND	5.75	4.05	3.41	165X13399XE
50		626-1199-ND	5.75	4.05	3.41	165X13409XE

Plastic Hood, 90° Black:
With side cable exit, big space inside

Contents: • **1x Hood + Cover:** PBT UL 94 V-0, Black • **1x Press Insert:** PBT UL 94 V-0, Black • **2x Jackscrews:** Brass, Nickel Plated • **2x Screw for Strain Relief:** Steel, Zinc Plated • **2x Cover Screws:** Steel, Nickel Plated • **1x Strain Relief:** Steel, Nickel Plated **Specifications:** • **Temperature Range:** -33°C ~ 90°C

No. of Pins	Dimensions (mm) A	B	C	D	øE
9	32.9	25.0	41.8	16.3	5.6
15	41.2	33.3	47.8	16.3	8.6
25	54.9	47.0	54.8	16.3	12.0
37	71.4	63.5	57.8	18.7	15.0
50	69.0	61.1	57.8	19.5	14.0

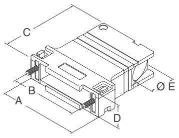

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	90° Black	626-1200-ND	4.76	3.20	2.68	165X13419XE
15		626-1201-ND	4.99	3.36	2.81	165X13429XE
25		626-1202-ND	4.98	3.48	2.85	165X13439XE
37		626-1203-ND	5.96	4.16	3.41	165X13449XE
50		626-1204-ND	5.75	4.05	3.41	165X13459XE

Plastic Hood, Black:
Top and Side Exit with Jack Screws or Slide lock, big space inside

Dual Exit with Jack Screws:
• **Hood + Cover:** ABS UL 94 V-0, Black • **Blind Plug:** ABS UL 94 V-0, Black • **Cable Strain Relief:** Steel, Nickel Plated • **Countersunk Head Screw:** Steel, Nickel Plated • **Jack Screw**: Brass, Nickel Plated

Dual Exit with Side-lock:
• **Hood + Cover:** ABS UL 94 V-0, Black • **Blind Plug:** ABS UL 94 V-0, Black • **Cable Strain Relief:** Steel, Nickel Plated • **Spring:** Steel, Nickel Plated • **Side Lock:** Steel, Nickel Plated • **Screws**: Steel, Nickel Plated

Dual Exit, Metallized with Jack Screws:
• **Hood + Cover:** ABS UL 94 V-0, Metallized • **Blind Plug:** ABS UL 94 V-0, Metallized • **Cable Strain Relief:** Steel, Nickel Plated • **Countersunk Head Screw:** Steel, Nickel Plated • **Jack Screw**: Brass, Nickel Plated

No. of Pins	Dimensions (mm) A	B	C	D	øE
9	32.0	25.0	39.7	15.5	7.5
15	40.0	33.3	41.2	15.5	9.5
25	54.2	47.0	45.2	15.5	12.0
37	70.6	63.5	50.2	15.5	14.0

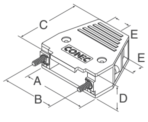

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Dual Exit Plastic Black	626-1209-ND	4.29	2.96	2.42	165X11239XE
15		626-1210-ND	4.15	2.86	2.34	165X11249XE
25		626-1211-ND	4.79	3.34	2.74	165X11259XE
37		626-1212-ND	5.32	3.71	3.04	165X11269XE
9	Dual Exit with Side-lock Black	626-1213-ND	5.93	4.34	3.54	165X11279XE
15		626-1214-ND	6.01	4.39	3.59	165X11289XE
25		626-1215-ND	6.40	4.68	3.82	165X11299XE
37		626-1216-ND	8.15	5.87	4.89	165X11309XE
9	Dual Exit Metal-lized	626-1217-ND	6.50	4.75	3.88	165X11319XE
15		626-1218-ND	7.02	5.13	4.19	165X11329XE
25		626-1219-ND	6.80	5.04	4.17	165X11339XE
37		626-1220-ND	8.15	5.87	4.89	165X11349XE

Plastic Hood Gray:
9-Position with top cable exit, 15-50 Positions with side cable exit.

Specifications: • **Hood:** PC UL 94 V-1, Gray • **Hood Plug:** PC UL 94 V-1, Gray • **Jackscrew:** Brass, Nickel Plated • **Screw for Strain Relief:** Steel, Nickel Plated • **Cover Screw:** Steel, Nickel Plated • **Strain Relief:** Steel, Nickel Plated

No. of Pins	Dimensions (mm) A	B	C	D	øE
9	31.2	25.0	35.0	15.6	8.0
15	39.5	33.3	40.2	15.6	8.0
25	53.2	47.0	45.4	15.6	10.0
37	69.7	63.5	45.4	15.6	10.0

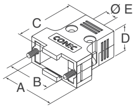

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Top Exit Gray	626-1205-ND	3.57	2.38	1.94	165X11869XE
15	Dual Exit Gray	626-1206-ND	4.05	2.70	2.21	165X11879XE
25		626-1207-ND	4.15	2.86	2.34	165X11889XE
37		626-1208-ND	4.29	2.96	2.42	165X11899XE

Plastic Hood:
with Straight Cable Exit

Specifications: • **Hood:** Polyamid + GF • **Jackscrew:** Brass, Nickel Plated • **Cover Screw:** Steel, Nickel Plated • **Clamp:** Steel, Nickel Plated

No. of Pins	Dimensions (mm) A	B	C	ØD	E
9	31.2	25.0	43.6	8.0	17.0
25	53.5	47.0	43.6	10.3	17.0
37	69.7	63.5	43.6	10.3	17.0

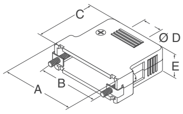

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Exit Plastic	626-1222-ND	4.55	3.14	2.56	165X13179XE
25		626-1223-ND	5.34	3.79	3.11	165X13199XE
37		626-1224-ND	5.67	4.10	3.36	165X13209XE

One Piece Plastic Hood:
with Straight Entry

No. of Pins	Dimensions (mm) A	B	C	D
9	30.9	25.0	25.4	12.7
15	39.3	33.3	25.4	12.7
25	53.2	47.0	31.7	12.7
37	69.4	63.5	38.1	12.7
50	67.1	61.1	38.1	15.5

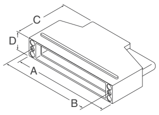

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Straight Entry Black	626-1225-ND	3.97	2.74	2.24	165X10389XE
15		626-1226-ND	3.94	2.72	2.22	165X10399XE
25		626-1227-ND	3.97	2.74	2.24	165X10409XE
37		626-1228-ND	4.50	3.10	2.53	165X10419XE
50		626-1229-ND	5.25	3.73	3.06	165X10429XE

One Piece Plastic Hood:
with Side Entry

No. of Pins	Dimensions (mm) A	B	C	D	øE
9	30.9	25.0	25.4	12.7	7.1
15	39.3	33.3	25.4	12.7	9.1
25	53.2	47.0	31.7	12.7	12.5 x 9.1*
37	69.4	63.5	38.1	12.7	17.6 x 9.1*
50	67.1	61.1	38.1	15.5	18.6 x 11.9*

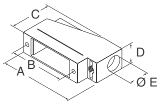

* cable entry is oval

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	Side Entry Black	626-1230-ND	3.78	2.52	2.06	165X10439XE
15		626-1231-ND	4.09	2.82	2.30	165X10449XE
25		626-1232-ND	3.97	2.74	2.24	165X10459XE
37		626-1233-ND	5.05	3.48	2.84	165X10469XE
50		626-1234-ND	3.93	2.79	2.29	165X10479XE

Plastic Hood:
with Two Entries straight and side hinged Version

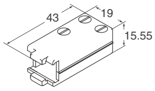

626-1235-ND

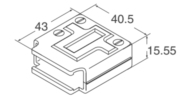

626-1236-ND

No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
9	DL Entry Black	626-1235-ND	2.62	1.70	1.34	165X13219XE
25		626-1236-ND	2.55	1.65	1.30	165X13239XE

NEW! CONEC
TECHNOLOGY IN CONNECTORS™

Combination D-Sub Connectors

RoHS COMPLIANT

Combination D-Subminiature connectors are available in a variety of applications. The design allows a combination of signal, high current, high voltage and coaxial contacts.

Product Features: • Saves Space • Cost factor, one item as compared to several different connectors • Contacts are screw machine type

The complete program is UL (E228329, UL 1977), UL (E202784, UL 1863), CSA (LR 115000-1) and VDE (40000440) approved.

Technical Data: • Insulator: PBTP, GV (ULV94V-0) **• Shell:** Steel **• Shell Plating:** Tin Plated **• Contact Plating:** Gold over Nickel **• Contact Material:** Cu Alloy **• Mating cycles:** 500

Contact Arangement

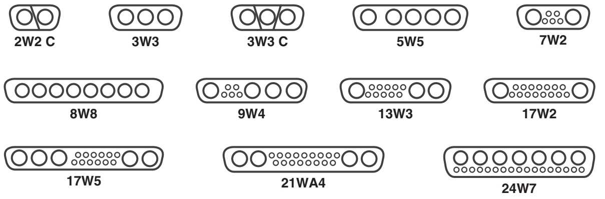

Fig. 1

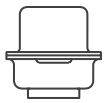

Fig. 2

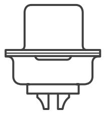

Fig. 3

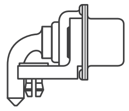

Contact Arangement	Type	Digi-Key Part No.	Price Each			CONEC Part No.
			1	10	100	
Fig. 1 — Crimp Style (Contacts Sold Seperately)						
2W2 C	Male	626-1094-ND	1.97	1.31	1.01	302W2CPXX99A10X
2W2 C	Female	626-1093-ND	2.48	1.65	1.30	302W2CSXX99A10X
2W2 C	Female	626-1095-ND	2.62	1.73	1.40	302W2CSXX99A30X
3W3	Male	626-1102-ND	2.14	1.39	1.09	3003W3PXX99A10X
3W3	Female	626-1101-ND	2.15	1.43	1.13	3003W3SXX99A10X
3W3	Female	626-1103-ND	2.60	1.77	1.43	3003W3SXX99A30X
3W3 C	Male	626-1098-ND	2.14	1.39	1.09	303W3CPXX99A10X
3W3 C	Female	626-1097-ND	2.07	1.35	1.06	303W3CSXX99A10X
3W3 C	Female	626-1099-ND	2.62	1.73	1.40	303W3CSXX99A30X
5W5	Male	626-1106-ND	2.07	1.35	1.06	3005W5PXX99A10X
5W5	Female	626-1105-ND	2.34	1.59	1.23	3005W5SXX99A10X
5W5	Female	626-1107-ND	2.88	1.96	1.54	3005W5SXX99A30X
8W8	Male	626-1110-ND	2.57	1.74	1.35	3008W8PXX99A10X
8W8	Female	626-1109-ND	2.62	1.73	1.40	3008W8SXX99A10X
8W8	Female	626-1111-ND	3.06	2.04	1.67	3008W8SXX99A30X
Fig. 2 — Solder Cup (Power Contacts Sold Seperately)						
7W2	Male	626-1114-ND	3.24	2.16	1.77	3007W2PCM99A10X
7W2	Female	626-1113-ND	3.65	2.52	2.06	3007W2SCM99A10X
7W2	Female	626-1115-ND	4.29	2.89	2.42	3007W2SCM99A30X
9W4	Male	626-1118-ND	3.03	2.02	1.65	3009W4PCM99A10X
9W4	Female	626-1117-ND	3.97	2.74	2.24	3009W4SCM99A10X
9W4	Female	626-1119-ND	4.42	3.09	2.53	3009W4SCM99A30X
13W3	Male	626-1126-ND	4.20	2.93	2.40	3013W3PCM99A10X
13W3	Female	626-1125-ND	5.28	3.86	3.15	3013W3SCM99A10X
13W3	Female	626-1127-ND	5.82	4.26	3.48	3013W3SCM99A30X
17W2	Male	626-1122-ND	5.03	3.57	2.93	3017W2PCM99A10X
17W2	Female	626-1121-ND	6.50	4.81	3.98	3017W2SCM99A10X
17W2	Female	626-1123-ND	7.05	5.22	4.32	3017W2SCM99A30X
17W5	Male	626-1130-ND	4.87	3.46	2.84	3017W5PCM99A10X
17W5	Female	626-1129-ND	6.08	4.45	3.63	3017W5SCM99A10X
17W5	Female	626-1131-ND	6.35	4.70	3.89	3017W5SCM99A30X
21WA4	Male	626-1134-ND	5.80	4.24	3.46	321WA4PCM99A10X
21WA4	Female	626-1133-ND	7.53	5.42	4.61	321WA4SCM99A10X
21WA4	Female	626-1135-ND	7.55	5.44	4.53	321WA4SCM99A30X
24W7	Male	626-1138-ND	5.93	4.34	3.54	3024W7PCM99A10X
24W7	Female	626-1137-ND	7.60	5.48	4.56	3024W7SCM99A10X
24W7	Female	626-1139-ND	7.80	5.85	4.88	3024W7SCM99A30X
Fig. 3 — PC Mount - Right Angle						
2W2 C	Female	626-1096-ND	6.98	5.17	4.27	302W2CSXX56N40X
3W3	Female	626-1104-ND	8.98	6.74	5.61	3003W3SXX56N40X
3W3 C	Female	626-1100-ND	8.52	6.39	5.33	303W3CSXX56N40X
5W5	Female	626-1108-ND	12.17	9.26	7.94	3005W5SXX56N40X
7W2	Female	626-1116-ND	9.14	6.86	5.72	3007W2SCT56N40X
8W8	Female	626-1112-ND	16.83	13.01	11.10	3008W8SXX56N40X
9W4	Female	626-1120-ND	12.08	9.29	7.79	3009W4SCT56N40X
13W3	Female	626-1128-ND	12.47	9.59	8.04	3013W3SCT56N40X
17W2	Female	626-1124-ND	12.38	9.52	7.98	3017W2SCT56N40X
17W5	Female	626-1132-ND	16.26	12.57	10.72	3017W5SCT56N40X
21WA4	Female	626-1136-ND	16.39	12.67	10.81	321WA4SCT56N40X

Wire Size	Type	Digi-Key Part No.	Price Each			CONEC Part No.
			1	10	100	
Contacts - Solder Cup						
8-10AWG	Pin	626-1143-ND	2.11	1.37	1.08	131C10049X
8-10AWG	Socket	626-1147-ND	2.37	1.61	1.25	132C10049X
10-12AWG	Pin	626-1142-ND	2.01	1.33	1.03	131C10039X
10-12AWG	Socket	626-1146-ND	2.37	1.61	1.25	132C10039X
12-14AWG	Pin	626-1141-ND	2.18	1.41	1.11	131C10029X
12-14AWG	Socket	626-1145-ND	2.69	1.77	1.43	132C10029X
16-20AWG	Pin	626-1140-ND	2.21	1.48	1.16	131C10019X
16-20AWG	Socket	626-1144-ND	2.41	1.61	1.27	132C10019X
Contacts - Crimp						
8-10AWG	Pin	626-1151-ND	2.18	1.46	1.15	131C11049X
8-10AWG	Socket	626-1155-ND	2.59	1.71	1.38	132C11049X
10-12AWG	Pin	626-1150-ND	2.04	1.32	1.04	131C11039X
10-12AWG	Socket	626-1154-ND	2.37	1.61	1.25	132C11039X
12-14AWG	Pin	626-1149-ND	2.04	1.32	1.04	131C11029X
12-14AWG	Socket	626-1153-ND	2.28	1.52	1.20	132C11029X
16-20AWG	Pin	626-1148-ND	2.01	1.33	1.03	131C11019X
16-20AWG	Socket	626-1152-ND	2.37	1.61	1.25	132C11019X
Contacts - Coaxial						
—	Pin	626-1156-ND	5.03	3.57	2.93	131J20019X
—	Socket	626-1160-ND	5.25	3.73	3.06	132J20019X
—	Pin	626-1157-ND	5.29	3.83	3.14	131J20029X
—	Socket	626-1161-ND	5.80	4.24	3.46	132J20029X
—	Pin	626-1158-ND	5.30	3.88	3.17	131J20049X
—	Socket	626-1162-ND	5.93	4.34	3.54	132J20049X
—	Pin	626-1159-ND	5.54	4.05	3.31	131J30019X
—	Socket	626-1163-ND	5.38	3.94	3.21	132J30019X

D-Sub Gender Changers

RoHS COMPLIANT

Fig. 1

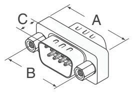

Fig. 2

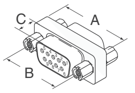

Fig	No. Pos	Type	Dimensions			Digi-Key Part No.	Price Each			CONEC Part No.
			A	B	C		1	10	100	
1	9	M-M	31.19	25.00	6.12	626-1085-ND	2.67	1.81	1.47	320X12509X
	15	M-M	39.52	33.30	6.12	626-1086-ND	2.95	2.00	1.57	320X12529X
	25	M-M	53.42	47.04	5.99	626-1087-ND	3.54	2.44	1.99	320X10549X
	37	M-M	69.70	63.50	5.99	626-1088-ND	4.87	3.40	2.79	320X12549X
2	9	F-F	31.19	25.00	6.00	626-1089-ND	2.82	1.92	1.51	320X12519X
	15	F-F	39.52	33.30	6.00	626-1090-ND	3.09	2.06	1.68	320X12539X
	25	F-F	53.42	47.04	6.00	626-1091-ND	3.65	2.52	2.06	320X10559X
	37	F-F	69.70	63.50	6.00	626-1092-ND	5.06	3.59	2.95	320X12559X

Water Resistant D-Sub Connectors

RoHS COMPLIANT

Fig. 1

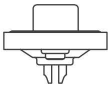

Fig. 2

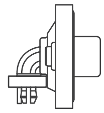

Electronic equipment that is used in harsh outdoor or indoor environments, require connectors that can withstand moisture, dust and other elements that cause connectors to fail. CONEC® has developed the new water resistant connector system. The water resistant connectors meet IEC 529-IP67 Specifications. This series of water resistant connectors can be successfully applied in applications where moisture, high humidity, water and dust are present. CONEC applies special sealing procedures to seal the connectors.
The program is UL (E202784) and CSA (LR115000-1) approved.

Technical Data: • Insulators: Polyester GF UL 94 V0 **• Contacts:** Copper Alloy **• Contact Finish:** Hard Gold Plated over Nickel **• Shell:** Brass/Steel **• Shell Plating:** Tin Plated **• Working Voltage:** 125V **• Current Rating:** 5A (20°) **• Insulation Resistance:** ≥5 GΩ **• Operating Temperature:** -40°C ~ 105°C **• Degree of Protection:** Requirements according to ICE 529-IP 67

Fig	No. of Pos.	Type	Digi-Key Part No.	Price Each			CONEC Part No.
				1	10	100	
Solder Cup							
1	9	Male	626-1164-ND	12.58	9.68	8.11	6STD09PCM99B30X
	9	Female	626-1167-ND	11.48	8.74	7.49	6STD09SCM99B30X
	15	Male	626-1165-ND	13.90	10.94	9.17	6STD15PCM99B30X
	15	Female	626-1168-ND	13.41	10.32	8.65	6STD15SCM99B30X
	25	Male	626-1166-ND	16.81	12.99	10.89	6STD25PCM99B30X
	25	Female	626-1169-ND	16.68	12.89	10.81	6STD25SCM99B30X
PC Mount - Right Angle							
2	9	Female	626-1170-ND	13.27	10.44	8.75	6STD09SCT99S40X
	15	Female	626-1171-ND	15.66	12.11	10.33	6STD15SCT99S40X
	25	Female	626-1172-ND	19.64	15.90	13.33	6STD25SCT99S40X
Water Resistant Hoods							
—	9	Hood	626-1173-ND	14.81	11.65	9.76	165X14819XE
—	15	Hood	626-1174-ND	14.04	11.04	9.26	165X14829XE
—	25	Hood	626-1175-ND	14.43	11.35	9.52	165X14839XE

I/O INTERCONNECT / *Digi-Key*®

IDC Modular Cable Assemblies

Style 1: Standard

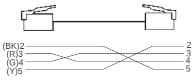

Style 2: Reverse

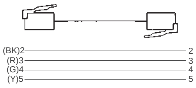

Style 3: Single Ended

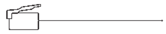

H☐☐☐☐-☐☐☐-ND

Wire Type: (Color)
1 = White
2 = Black
3 = Silver Satin

C = Designates Coil Cord

Connector(s):
44 = 4-Position, 4-Contact (Black on Pin 1)
64 = 6-Positoin, 4-Contact (Black on Pin 1)
66 = 6-Position, 6-Contact (White on Pin 1)
88 = 8-Position, 8-Contact (Gray on Pin 1)

Length* (Use "Feet" Only)
Straight
07 = 7 Feet (2.13 Meters)
14 = 14 Feet (4.27 Meters)
25 = 25 Feet (7.62 Meters)
Coiled
05 = 5 Feet (1.52 Meters)
07 = 7 Feet (2.13 Meters)
10 = 10 Feet (3.05 Meters)
14 = 14 Feet (4.27 Meters)

How To Order: 1) You choose your part number simply by substituting the corresponding code to indicate the following: Style, Connector(s), Wire Type, and Length (***in feet - not meters***).

Straight Cable Assembly

Example: H1441-07-ND
Style 1
4-Position 4-Contact
White Wire
7 Feet Long (2.13 Meters)

Coil Cord Assembly

Example: H1441-10C-ND
Style 1
4-Position 4-Contact
White Wire
10 Feet Long (2.13 Meters)
Optimum Extended Length

Straight

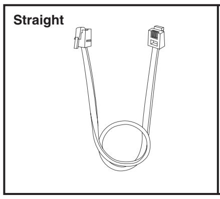

Coiled

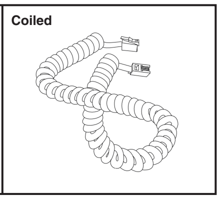

Straight Cable Assemblies

	Digi-Key*	Price Each			
Style	**Part No.**	**1**	**10**	**50**	**100**
4-Position, 4-Contact Assemblies					
1	H1443-07-ND	2.51	2.13	1.80	1.54
	H144☐-14-ND	3.09	2.63	2.22	1.90
2	H244☐-14-ND	3.09	2.63	2.22	1.90
	H2443-25-ND	4.02	3.41	2.88	2.47
3	H3441-07-ND	1.55	1.32	1.11	.95
6-Position, 4-Contact Assemblies					
1	H1643-14-ND	3.44	2.92	2.47	2.11
2	H2642-14-ND	3.44	2.92	2.47	2.11
	H2641-25-ND	4.36	3.70	3.13	2.68
3	H3642-07-ND	1.72	1.46	1.24	1.06
	H3643-14-ND	2.30	1.96	1.66	1.42
6-Position, 6-Contact Assemblies					
1	H1661-07-ND	3.47	2.95	2.49	2.13
	H1663-07-ND	3.47	2.95	2.49	2.13
1	H1663-25-ND	5.80	4.93	4.16	3.56
2	H2661-07-ND	3.47	2.95	2.49	2.13
	H2662-25-ND	5.80	4.93	4.16	3.56
	H2663-25-ND	5.80	4.93	4.16	3.56
3	H3661-07-ND	2.19	1.86	1.57	1.35
8-Position, 8-Contact Assemblies					
1	H1882-07-ND	4.34	3.69	3.12	2.67
	H1883-14-ND	5.58	4.74	4.00	3.42
2	H2883-07-ND	4.34	3.69	3.12	2.67
	H288☐-14-ND	5.58	4.74	4.00	3.42
	H2883-25-ND	7.52	6.39	5.40	4.62
3	H3881-07-ND	2.79	2.37	2.00	1.71
	H3881-14-ND	4.03	3.42	2.89	2.47
	H3882-14-ND	4.03	3.42	2.89	2.47

***1**= White, **2** = Black, **3** = Silver Satin.
Note: Custom length also available — minimum order required.

Coil Cord Assemblies

	Digi-Key*	Price Each			
Style	**Part No.**	**1**	**10**	**50**	**100**
4-Position, 4-Contact Assemblies					
1	H1442-05C-ND	4.25	3.62	3.05	2.61
	H1443-05C-ND	4.25	3.62	3.05	2.61
	H1442-10C-ND	5.92	5.03	4.25	3.64
2	H2441-07C-ND	4.39	3.73	3.15	2.69
	H2442-07C-ND	4.39	3.73	3.15	2.69
	H2442-10C-ND	5.92	5.03	4.25	3.64
6-Position, 4-Contact Assemblies					
2	H264☐-05C-ND	4.60	3.91	3.30	2.82
3	H3642-07C-ND	3.60	3.06	2.58	2.21
6-Position, 6-Contact Assemblies					
1	H1661-05C-ND	5.02	4.27	3.61	3.09
	H1663-05C-ND	5.02	4.27	3.61	3.09
	H1662-07C-ND	5.10	4.34	3.66	3.13
3	H3662-05C-ND	3.74	3.18	2.69	2.30
	H3661-10C-ND	6.10	5.19	4.38	3.75
	H3662-10C-ND	6.10	5.19	4.38	3.75
8-Position, 8-Contact Assemblies					
1	H1883-14C-ND	10.31	8.76	7.39	6.33
2	H2881-05C-ND	8.05	6.84	5.78	4.94
	H2883-07C-ND	7.76	6.60	5.57	4.77

* **1** = White, **2** = Black, **3** = Silver Satin.

NEW! IDC Modular Cable Assemblies - *RoHS Compliant*

Style 1: Standard

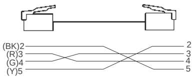

Style 2: Reverse

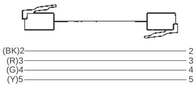

Style 3: Single Ended

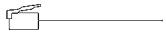

H☐☐☐☐R-☐☐☐-ND

Wire Type: (Color)
1 = White
2 = Black
3 = Silver Satin

RoHS Compliant

C = Designates Coil Cord

Connector(s):
44 = 4-Position, 4-Contact (Black on Pin 1)
64 = 6-Positoin, 4-Contact (Black on Pin 1)
66 = 6-Position, 6-Contact (White on Pin 1)
88 = 8-Position, 8-Contact (Gray on Pin 1)

Length* (Use "Feet" Only)
Straight
07 = 7 Feet (2.13 Meters)
14 = 14 Feet (4.27 Meters)
25 = 25 Feet (7.62 Meters)
Coiled
05 = 5 Feet (1.52 Meters)
07 = 7 Feet (2.13 Meters)
10 = 10 Feet (3.05 Meters)
14 = 14 Feet (4.27 Meters)

How To Order: 1) You choose your part number simply by substituting the corresponding code to indicate the following: Style, Connector(s), Wire Type, and Length (***in feet - not meters***).

Straight Cable Assembly

Example: H1441R-07-ND
Style 1
4-Position 4-Contact
White Wire
7 Feet Long (2.13 Meters)

Coil Cord Assembly

Example: H1441R-10C-ND
Style 1
4-Position 4-Contact
White Wire
10 Feet Long (2.13 Meters)
Optimum Extended Length

Straight

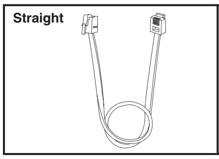

Coiled

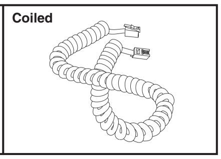

Straight Cable Assemblies

	Digi-Key*	Price Each			
Style	**Part No.**	**1**	**10**	**50**	**100**
4-Position, 4-Contact Assemblies					
1	H1441R-07-ND	2.63	2.24	1.89	1.62
	H1442R-07-ND	2.63	2.24	1.89	1.62
	H1443R-07-ND	1.83	1.56	1.32	1.13
	H1441R-14-ND	2.70	2.30	1.94	1.66
	H1442R-14-ND	3.34	2.84	2.40	2.05
	H1443R-14-ND	3.34	2.84	2.40	2.05
	H1441R-25-ND	4.45	3.79	3.20	2.74
	H1442R-25-ND	4.45	3.79	3.20	2.74
	H1443R-25-ND	4.45	3.79	3.20	2.74
2	H2441R-07-ND	2.63	2.24	1.89	1.62
	H2442R-07-ND	2.15	1.83	1.54	1.32
	H2443R-07-ND	2.17	1.85	1.56	1.34
	H2441R-14-ND	3.34	2.84	2.40	2.05
	H2442R-14-ND	2.70	2.30	1.94	1.66
	H2443R-14-ND	3.34	2.84	2.40	2.05
	H2441R-25-ND	4.45	3.79	3.20	2.74
2	H2442R-25-ND	4.45	3.79	3.20	2.74
	H2443R-25-ND	4.45	3.79	3.20	2.74
3	H3441R-07-ND	1.33	1.13	.95	.82
	H3442R-07-ND	1.33	1.13	.95	.82
	H3443R-07-ND	1.17	.99	.84	.72
	H3441R-14-ND	2.38	2.02	1.71	1.46
	H3442R-14-ND	2.38	2.02	1.71	1.46
	H3443R-14-ND	2.38	2.02	1.71	1.46
	H3441R-25-ND	3.49	2.97	2.51	2.15
	H3442R-25-ND	3.49	2.97	2.51	2.15
	H3443R-25-ND	3.49	2.97	2.51	2.15
6-Position, 4-Contact Assemblies					
1	H1641R-07-ND	2.97	2.53	2.14	1.83
	H1642R-07-ND	2.52	2.14	1.81	1.55
	H1643R-07-ND	2.52	2.14	1.81	1.55
	H1641R-14-ND	3.68	3.13	2.65	2.26
	H1642R-14-ND	3.13	2.66	2.25	1.92
1	H1643R-14-ND	3.15	2.68	2.27	1.94
	H1641R-25-ND	4.80	4.08	3.44	2.95
	H1642R-25-ND	4.80	4.08	3.44	2.95
	H1643R-25-ND	4.16	3.54	2.99	2.56
2	H2641R-07-ND	2.52	2.14	1.81	1.55
	H2642R-07-ND	2.52	2.14	1.81	1.55
	H2643R-07-ND	2.97	2.53	2.14	1.83
	H2641R-14-ND	3.68	3.13	2.65	2.26
	H2642R-14-ND	3.68	3.13	2.65	2.26
	H2643R-14-ND	3.13	2.66	2.25	1.92
	H2641R-25-ND	4.13	3.51	2.97	2.54
	H2642R-25-ND	4.80	4.08	3.44	2.95
	H2643R-25-ND	4.16	3.54	2.99	2.56
3	H3641R-07-ND	1.54	1.31	1.11	.95
	H3642R-07-ND	1.54	1.31	1.11	.95
	H3643R-07-ND	1.56	1.33	1.13	.96
	H3641R-14-ND	2.55	2.17	1.83	1.57
	H3642R-14-ND	2.25	1.92	1.62	1.39
	H3643R-14-ND	2.25	1.92	1.62	1.39
	H3641R-25-ND	3.66	3.12	2.63	2.25
	H3642R-25-ND	3.66	3.12	2.63	2.25
	H3643R-25-ND	2.73	2.32	1.96	1.68
6-Position, 6-Contact Assemblies					
1	H1661R-07-ND	3.61	3.07	2.59	2.22
	H1662R-07-ND	3.29	2.79	2.36	2.02

***1**= White, **2** = Black, **3** = Silver Satin.
Note: Custom length also available — minimum order required.

(Continued)

NEW! IDC Modular Cable Assemblies - *RoHS Compliant* *(Cont.)*

Straight Cable Assemblies *(Cont.)*

Style	Digi-Key*	Price Each			
	Part No.	1	10	50	100
1	H1663R-07-ND	3.34	2.84	2.40	2.05
	H1661R-14-ND	4.11	3.49	2.95	2.52
	H1662R-14-ND	4.11	3.49	2.95	2.52
	H1663R-14-ND	4.19	3.56	3.01	2.57
	H1661R-25-ND	6.31	5.36	4.53	3.87
	H1662R-25-ND	5.54	4.71	3.98	3.40
	H1663R-25-ND	6.48	5.51	4.65	3.98
2	H2661R-07-ND	3.29	2.79	2.36	2.02
	H2662R-07-ND	3.29	2.79	2.36	2.02
	H2663R-07-ND	3.34	2.84	2.40	2.05
	H2661R-14-ND	4.66	3.96	3.35	2.86
	H2662R-14-ND	4.16	3.54	2.99	2.56
	H2663R-14-ND	3.52	3.00	2.53	2.17
	H2661R-25-ND	6.31	5.36	4.53	3.87
	H2662R-25-ND	5.54	4.71	3.98	3.40
	H2663R-25-ND	5.59	4.75	4.01	3.43
3	H3661R-07-ND	2.17	1.85	1.56	1.34
	H3662R-07-ND	2.15	1.83	1.54	1.32
	H3663R-07-ND	1.83	1.56	1.32	1.13
	H3661R-14-ND	3.38	2.87	2.43	2.08
	H3662R-14-ND	3.47	2.95	2.50	2.14
	H3663R-14-ND	3.47	2.95	2.50	2.14
	H3661R-25-ND	5.03	4.28	3.61	3.09
	H3662R-25-ND	5.20	4.42	3.73	3.19
	H3663R-25-ND	5.20	4.42	3.73	3.19
8-Position, 8-Contact Assemblies					
1	H1881R-07-ND	4.60	3.91	3.30	2.82
	H1882R-07-ND	4.60	3.91	3.30	2.82
	H1883R-07-ND	4.60	3.91	3.30	2.82
	H1881R-14-ND	6.10	5.18	4.38	3.74
	H1882R-14-ND	6.10	5.18	4.38	3.74
	H1883R-14-ND	6.10	5.18	4.38	3.74
	H1881R-25-ND	8.45	7.18	6.07	5.19
	H1882R-25-ND	8.45	7.18	6.07	5.19
	H1883R-25-ND	8.45	7.18	6.07	5.19
2	H2881R-07-ND	4.60	3.91	3.30	2.82
	H2882R-07-ND	4.19	3.56	3.01	2.57
	H2883R-07-ND	4.19	3.56	3.01	2.57
	H2881R-14-ND	6.10	5.18	4.38	3.74
	H2882R-14-ND	5.22	4.44	3.75	3.21
	H2883R-14-ND	5.27	4.48	3.79	3.24
	H2881R-25-ND	8.45	7.18	6.07	5.19
	H2882R-25-ND	8.45	7.18	6.07	5.19
	H2883R-25-ND	8.45	7.18	6.07	5.19
3	H3881R-07-ND	3.05	2.59	2.19	1.87
	H3882R-07-ND	2.73	2.32	1.96	1.68
	H3883R-07-ND	3.05	2.59	2.19	1.87
	H3881R-14-ND	4.55	3.87	3.27	2.79
	H3882R-14-ND	4.55	3.87	3.27	2.79
	H3883R-14-ND	4.55	3.87	3.27	2.79
	H3881R-25-ND	6.90	5.87	4.95	4.24
	H3882R-25-ND	6.90	5.87	4.95	4.24
	H3883R-25-ND	6.90	5.87	4.95	4.24

*1= White, **2** = Black, **3** = Silver Satin.
Note: Custom length also available — minimum order required.

Coil Cord Assemblies

Style	Digi-Key*	Price Each			
	Part No.	1	10	50	100
4-Position, 4-Contact Assemblies					
1	H1441R-05C-ND	4.73	4.02	3.40	2.91
	H1442R-05C-ND	3.82	3.24	2.74	2.34
	H1443R-05C-ND	4.25	3.62	3.06	2.61
	H1441R-07C-ND	4.92	4.18	3.53	3.02
	H1442R-07C-ND	5.53	4.70	3.97	3.39
	H1443R-07C-ND	5.53	4.70	3.97	3.39
	H1441R-10C-ND	6.75	5.73	4.84	4.14
	H1442R-10C-ND	5.86	4.98	4.20	3.60
	H1443R-10C-ND	7.28	6.18	5.22	4.47
	H1441R-14C-ND	9.53	8.09	6.84	5.85
	H1442R-14C-ND	8.89	7.55	6.38	5.46
	H1443R-14C-ND	7.83	6.65	5.62	4.81
2	H2441R-05C-ND	4.73	4.02	3.40	2.91
	H2442R-05C-ND	3.82	3.24	2.74	2.34
	H2443R-05C-ND	4.25	3.62	3.06	2.61
	H2441R-07C-ND	4.92	4.18	3.53	3.02
	H2442R-07C-ND	5.53	4.70	3.97	3.39
	H2443R-07C-ND	5.53	4.70	3.97	3.39
	H2441R-10C-ND	6.75	5.73	4.84	4.14
	H2442R-10C-ND	6.75	5.73	4.84	4.14
	H2443R-10C-ND	7.28	6.18	5.22	4.47
	H2441R-14C-ND	9.53	8.09	6.84	5.85
	H2442R-14C-ND	8.89	7.55	6.38	5.46
	H2443R-14C-ND	7.83	6.65	5.62	4.81
3	H3441R-05C-ND	3.77	3.21	2.71	2.32
	H3442R-05C-ND	3.77	3.21	2.71	2.32
	H3443R-05C-ND	3.29	2.80	2.37	2.02
	H3441R-07C-ND	3.96	3.36	2.84	2.43
	H3442R-07C-ND	4.57	3.88	3.28	2.80
	H3443R-07C-ND	4.57	3.88	3.28	2.80
	H3441R-10C-ND	5.78	4.92	4.15	3.55
	H3442R-10C-ND	5.78	4.92	4.15	3.55
	H3443R-10C-ND	6.31	5.37	4.53	3.88
	H3441R-14C-ND	8.57	7.28	6.15	5.26
	H3442R-14C-ND	7.93	6.74	5.69	4.87
	H3443R-14C-ND	6.87	5.84	4.93	4.22
6-Position, 4-Contact Assemblies					
1	H1641R-05C-ND	5.07	4.31	3.64	3.12
	H1642R-05C-ND	5.07	4.31	3.64	3.12
	H1643R-05C-ND	4.35	3.69	3.12	2.67
	H1641R-07C-ND	5.26	4.47	3.78	3.23
	H1642R-07C-ND	5.87	4.99	4.21	3.60
	H1643R-07C-ND	5.87	4.99	4.21	3.60
	H1641R-10C-ND	6.28	5.34	4.51	3.86
	H1642R-10C-ND	7.09	6.02	5.09	4.35
	H1643R-10C-ND	7.62	6.47	5.47	4.68
	H1641R-14C-ND	8.51	7.23	6.10	5.22
	H1642R-14C-ND	9.23	7.84	6.63	5.67
	H1643R-14C-ND	8.17	6.94	5.87	5.02
2	H2641R-05C-ND	5.07	4.31	3.64	3.12
	H2642R-05C-ND	5.07	4.31	3.64	3.12
	H2643R-05C-ND	4.60	3.91	3.30	2.82
	H2641R-07C-ND	5.26	4.47	3.78	3.23
	H2642R-07C-ND	5.87	4.99	4.21	3.60
	H2643R-07C-ND	5.87	4.99	4.21	3.60
	H2641R-10C-ND	7.09	6.02	5.09	4.35
	H2642R-10C-ND	7.09	6.02	5.09	4.35
	H2643R-10C-ND	7.62	6.47	5.47	4.68
	H2641R-14C-ND	9.87	8.38	7.08	6.06
	H2642R-14C-ND	9.23	7.84	6.63	5.67
	H2643R-14C-ND	8.17	6.94	5.87	5.02
3	H3641R-05C-ND	3.94	3.35	2.83	2.42
	H3642R-05C-ND	3.94	3.35	2.83	2.42
	H3643R-05C-ND	3.46	2.95	2.49	2.13
	H3641R-07C-ND	4.13	3.51	2.96	2.54
	H3642R-07C-ND	4.74	4.03	3.40	2.91
	H3643R-07C-ND	4.74	4.03	3.40	2.91
	H3641R-10C-ND	5.96	5.06	4.27	3.66
	H3642R-10C-ND	5.96	5.06	4.27	3.66
	H3643R-10C-ND	6.49	5.51	4.65	3.98
	H3641R-14C-ND	8.74	7.42	6.27	5.36
	H3642R-14C-ND	8.10	6.88	5.81	4.97
	H3643R-14C-ND	7.04	5.98	5.05	4.32
6-Position, 6-Contact Assemblies					
1	H1661R-05C-ND	6.08	5.17	4.37	3.74
	H1662R-05C-ND	5.54	4.71	3.98	3.40
	H1663R-05C-ND	5.53	4.70	3.97	3.39
	H1661R-07C-ND	5.99	5.09	4.30	3.68
	H1662R-07C-ND	3.42	2.91	2.46	2.10
	H1663R-07C-ND	6.56	5.57	4.71	4.03
	H1661R-10C-ND	10.29	8.74	7.38	6.31
	H1662R-10C-ND	7.92	6.73	5.69	4.86
	H1663R-10C-ND	8.42	7.15	6.04	5.17
	H1661R-14C-ND	10.29	8.74	7.38	6.31
	H1662R-14C-ND	9.57	8.13	6.86	5.87
	H1663R-14C-ND	10.96	9.31	7.86	6.73
2	H2661R-05C-ND	6.08	5.17	4.37	3.74
	H2662R-05C-ND	5.54	4.71	3.98	3.40
	H2663R-05C-ND	5.53	4.70	3.97	3.39
	H2661R-07C-ND	6.35	5.39	4.56	3.90
	H2662R-07C-ND	5.94	5.04	4.26	3.64
	H2663R-07C-ND	6.56	5.57	4.71	4.03
	H2661R-10C-ND	10.29	8.74	7.38	6.31
	H2662R-10C-ND	7.92	6.73	5.69	4.86
	H2663R-10C-ND	8.42	7.15	6.04	5.17
	H2661R-14C-ND	10.29	8.74	7.38	6.31
	H2662R-14C-ND	9.57	8.13	6.86	5.87
	H2663R-14C-ND	10.96	9.31	7.86	6.73
3	H3661R-05C-ND	4.80	4.08	3.45	2.95
	H3662R-05C-ND	3.84	3.27	2.76	2.36
	H3663R-05C-ND	4.25	3.61	3.05	2.61
	H3661R-07C-ND	5.07	4.31	3.64	3.11
	H3662R-07C-ND	4.98	4.23	3.58	3.06
	H3663R-07C-ND	5.28	4.49	3.79	3.24
	H3661R-10C-ND	9.01	7.65	6.46	5.53
	H3662R-10C-ND	9.01	7.65	6.46	5.53
	H3663R-10C-ND	7.14	6.06	5.12	4.38
	H3661R-14C-ND	9.01	7.65	6.46	5.53
	H3662R-14C-ND	8.96	7.62	6.43	5.50
	H3663R-14C-ND	9.68	8.22	6.95	5.94
8-Position, 8-Contact Assemblies					
1	H1881R-05C-ND	8.05	6.84	5.78	4.94
	H1882R-05C-ND	8.05	6.84	5.78	4.94
	H1883R-05C-ND	8.05	6.84	5.78	4.94
	H1881R-07C-ND	8.29	7.05	5.95	5.09
	H1882R-07C-ND	8.77	7.45	6.29	5.38
	H1883R-07C-ND	8.89	7.55	6.38	5.45
	H1881R-10C-ND	10.15	8.62	7.28	6.23
	H1882R-10C-ND	10.78	9.16	7.74	6.62
	H1883R-10C-ND	11.72	9.95	8.41	7.19
	H1881R-14C-ND	11.82	10.04	8.48	7.25
	H1882R-14C-ND	11.74	9.97	8.42	7.20
	H1883R-14C-ND	12.80	10.87	9.18	7.85
2	H2881R-05C-ND	8.05	6.84	5.78	4.94
	H2882R-05C-ND	8.56	7.27	6.14	5.25
	H2883R-05C-ND	8.05	6.84	5.78	4.94
	H2881R-07C-ND	8.29	7.05	5.95	5.09
	H2882R-07C-ND	8.77	7.45	6.29	5.38
	H2883R-07C-ND	8.89	7.55	6.38	5.45
	H2881R-10C-ND	10.15	8.62	7.28	6.23
	H2882R-10C-ND	10.78	9.16	7.74	6.62
	H2883R-10C-ND	11.72	9.95	8.41	7.19
	H2881R-14C-ND	11.82	10.04	8.48	7.25
	H2882R-14C-ND	11.74	9.97	8.42	7.20
	H2883R-14C-ND	12.80	10.87	9.18	7.85
3	H3881R-05C-ND	6.50	5.53	4.67	3.99
	H3882R-05C-ND	6.50	5.53	4.67	3.99
	H3883R-05C-ND	6.50	5.53	4.67	3.99
	H3881R-07C-ND	6.74	5.73	4.84	4.14
	H3882R-07C-ND	7.71	6.55	5.53	4.73
	H3883R-07C-ND	7.34	6.23	5.27	4.50
	H3881R-10C-ND	8.60	7.31	6.17	5.28
	H3882R-10C-ND	9.23	7.85	6.63	5.67
	H3883R-10C-ND	10.17	8.64	7.29	6.24
	H3881R-14C-ND	10.27	8.72	7.37	6.30
	H3882R-14C-ND	10.19	8.66	7.31	6.25
	H3883R-14C-ND	11.25	9.56	8.07	6.90

* **1** = White, **2** = Black, **3** = Silver Satin.

I/O INTERCONNECT Modular Cable

Flat modular line cord is available in either straight or coiled.

Straight: H004R is sold in hanks of 100, 500 and 1,000 feet, spools of 2,000 feet; H006R, H008R H010 and H010R are sold in hanks of 100 and 500 feet, spools of 1,000 feet.

Coiled: Hxx4☐C, Hxx4☐RC, Hxx6☐C, Hxx6☐RC, Hxx8☐C, Hxx8☐RC, Hxx10☐C and Hxx10☐RC are sold in 5, 7, 10 and 14 feet approximate optimum in three colors—white (designated by 1 for ☐ in part number), black (designated by 2 for ☐ in part number) and silver satin (designated by 3 for ☐ in part number).

View Ridge Up 4-Conductor Cable

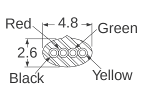

View Ridge Up 6-Conductor Cable

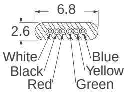

View Ridge Up 8-Conductor Cable

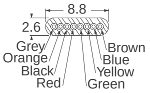

View Ridge Up 10-Conductor Cable

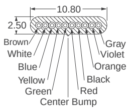

Number of Conductors	Length Feet (Meter)	Digi-Key* Part No.	Price Each 1	10	100
Coiled Line Cord – 5 ft. (1.52 meter), 7 ft. (2.13 meter), 10 ft. (3.05 meter) and 14 ft. (4.27 meter) approximate extended lengths - 26 AWG					
4	5 (1.52)	H054☐C-ND	2.64	2.38	2.12
	7 (2.13)	H0741C-ND	2.79	2.52	2.24
	10 (3.05)	H1042C-ND	4.11	3.70	3.29
	10 (3.05)	H1043C-ND	3.42	3.08	2.74
6	5 (1.52)	H0563C-ND	2.79	2.52	2.24
	7 (2.13)	H076☐C-ND	2.88	2.60	2.31
	10 (3.05)	H1061C-ND	5.16	4.65	4.13
	10 (3.05)	H1062C-ND	5.16	4.65	4.13
8	5 (1 .52)	H146☐C-ND	6.06	5.46	4.85
	7 (2.13)	H058☐C-ND	6.12	5.51	4.90
	10 (3.05)	H078☐C-ND	4.86	4.38	3.89
	10 (3.05)	H108☐C-ND	7.14	6.43	5.72
	14 (4.27)	H1481C-ND	8.16	7.35	6.53
	14 (4.27)	H1483C-ND	7.95	7.16	6.36
10	5 (1.52)	H0510☐C-ND	5.37	4.84	4.30
	7 (2.13)	H0710☐C-ND	5.58	5.03	4.47
	10 (3.05)	H1010☐C-ND	7.14	6.43	5.72
	14 (4.27)	H1410☐C-ND	7.95	7.16	6.36

Number of Conductors	Digi-Key* † Part No.	Pricing 100 ft.	500 ft.	1,000 ft.
Straight Line Cord - 26 AWG				
10	H0101-X-ND	26.08	119.54	193.00
	H0103-X-ND	26.08	119.54	193.00

Number of Conductors	Length Feet (Meter)	Digi-Key* Part No.	Price Each 1	10	100
NEW! Coiled Line Cord – 5 ft. (1.52 meter), 7 ft. (2.13 meter), 10 ft. (3.05 meter) NEW! and 14 ft. (4.27 meter) approximate extended lengths - 26 AWG — RoHS Compliant					
4	5(1.52)	H0541RC-ND	3.18	2.87	2.55
		H0542RC-ND	3.18	2.87	2.55
		H0543RC-ND	2.64	2.38	2.12
	7 (2.13)	H0741RC-ND	3.39	3.06	2.72
		H0742RC-ND	4.08	3.68	3.27
		H0743RC-ND	4.08	3.68	3.27
	10 (3.05)	H1041RC-ND	5.46	4.92	4.37
		H1042RC-ND	5.46	4.92	4.37
		H1043RC-ND	6.06	5.46	4.85
	14 (4.27)	H1441RC-ND	8.61	7.75	6.89
		H1442RC-ND	7.89	7.11	6.32
		H1443RC-ND	6.69	6.03	5.36
6	5 (1.52)	H0561RC-ND	3.99	3.60	3.20
		H0562RC-ND	2.49	2.25	2.00
		H0563RC-ND	3.36	3.03	2.69
	7 (2.13)	H0761RC-ND	4.29	3.87	3.44
		H0762RC-ND	4.11	3.70	3.29
		H0763RC-ND	4.53	4.08	3.63
	10 (3.05)	H1061RC-ND	8.75	7.88	7.00
		H1062RC-ND	8.75	7.88	7.00
		H1063RC-ND	6.63	5.97	5.31
	14 (4.27)	H1461RC-ND	8.75	7.88	7.00
		H1462RC-ND	8.70	7.83	6.96
		H1463RC-ND	9.51	8.56	7.61
8	5 (1.52)	H0581RC-ND	7.41	6.67	5.93
		H0582RC-ND	4.53	4.08	3.63
		H0583RC-ND	7.41	6.67	5.93
	7 (2.13)	H0781RC-ND	5.88	5.30	4.71
		H0782RC-ND	6.42	5.78	5.14
		H0783RC-ND	6.55	5.90	5.25
	10 (3.05)	H1081RC-ND	7.98	7.19	6.39
		H1082RC-ND	8.70	7.83	6.96
		H1083RC-ND	9.76	8.78	7.81
	14 (4.27)	H1481RC-ND	9.87	8.89	7.90
		H1482RC-ND	9.78	8.81	7.83
		H1483RC-ND	10.98	9.89	8.79

Number of Conductors	Digi-Key*† Part No.	Pricing 100 ft.	500 ft.	1,000 ft.	2,000 ft.
NEW! Straight Line Cord - 26 AWG — RoHS Compliant NEW!					
4	H0041R-X-ND	11.47	52.55	95.55	152.88
	H0042R-X-ND	11.47	52.55	95.55	152.88
	H0043R-X-ND	11.47	52.55	95.55	152.88
6	H0061R-X-ND	16.99	77.85	113.24	—
	H0062R-X-ND	17.75	81.36	118.34	—
	H0063R-X-ND	17.75	81.36	118.34	—
8	H0081R-X-ND	24.25	111.13	161.64	—
	H0082R-X-ND	24.25	111.13	161.64	—
	H0083R-X-ND	24.25	111.13	161.64	—
10	H0101R-X-ND	35.03	160.56	233.54	—
	H0102R-X-ND	35.03	160.56	233.54	—
	H0103R-X-ND	35.03	160.56	233.54	—

* **1** = White, **2** = Black, **3** = Silver Satin † "X" in the Digi-Key Part Number represents number of feet.

Paladin Tools®

Tools

Cable Tester

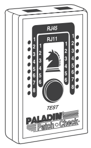

Mini-Stripax® Plus

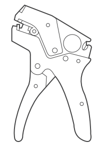

Stripax® Pro 6

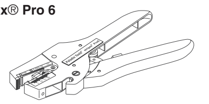

LAN ProNavigator Test Set

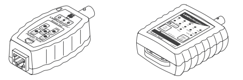

Cable Tester: The modular cable tester is a hand held instrument designed to test telephone (RJ11) and computer data-link (RJ45) wiring.

Wire Strippers: Stripping and cutting wires in the range of 28-12AWG • Solid and fine stranded conductors with all grades of PVC insulation hardness • P.T.F.E. insulation • Stranded conductors (even several conductors in one work cycle) • Self-adjusting cable cutter • Strips both modular and discrete wires

Stripax ® Pro 6 Strippers: The new stripax performs powerful stripping of standard and industrial insulations including PVC, THHN, THHW, silicone and polyethylene. Stripping blades are composed of 68 individual spring-compression blades to adjust precisely to the insulation. Not for Teflon or Kapton hard insulations.

LAN ProNavigator™: Two-piece tester includes main unit and remote with test results at both ends. One-button, simple testing (PASS/FAIL or fault find). Detects opens, shorts, crossed wires and split pairs. Cable types, RG58, RG59, RG6, RG6 Quad, Belden 8281, RG8, RG11, CAT-5, CAT 5e or CAT-6 (UTP/STP) cable.

Description	Digi-Key Part No.	Price Each	Mfg. Part No.
Modular Cable Tester	PAL1529-ND	77.77	1529
Sure Strip™ 4.0 (AWG 20-12)	PA904893-ND	58.99	904893
Mini-Stripax® Plus (AWG 28-18)	PAL1115-ND	85.35	1115P
Replacement Blade for PAL1115-ND	PAL2108-ND	21.99	2108
Stripax® Pro 6 (AWG 28-10)	PAL1113.1-ND	95.54	1113.1
LAN ProNavigator test set (main and remote), 2 RJ45 patch cords, 2 belt clips	PAL1543.1-ND	99.99	1543

Crimp Tools

- Fully ratcheting cycle
- Adjustable crimp tension
- Hardened dies for long life
- Crimp 4, 6, and 8 position
- Cuts and strips cable
- RJ45, RJ11

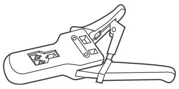

PAL1530R-ND

PAL1530R-ND	Modular Crimp Tool	**$126.99**
PAL2530-ND	Replacement Blade Set (for 1530R)	**$9.99**

NEW! Cable Tester

FEATURES:

- Tests over 20 types of patch cables up to 1,000 feet in length (600 feet for 75Ω coax) • LAN and telephone • Serial • Coax 50 and 75Ω • USB • VGA • Mini- SB • S-video • FireWire • PS/2 keyboard • Parallel printer • 9V battery included

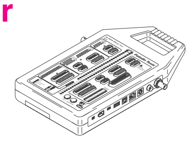

PAL1577-ND	Tool PC Cable Tester	**$179.99**

All-in-One Telephone Tool

- Ratcheted design • 6 position, (RJ11/RJ12), 8-position, (RJ45) modular telephone plugs • Cuts, strips, and crimps 28-24 AWG telephone and data cables

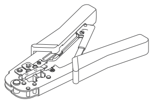

PAL1545.1-ND	All-in-One Telephone Tool	**$39.99**

HIROSE ELECTRIC CO.,LTD.

Data-Link Shielded Jack & Cable Assembly

FEATURES:

Plug

- One piece body structure of the shell and cable clamp make perfect "EMI" protection
- A metal shell offers "ESD" protection and a plastic cover is provided for enhanced aesthetics
- Using the specified tooling, will provide quick and easy cable assembly.

Jack

- In order to protect the circuit inside the equipment, the jack is constructed to allow the shielding to engage first upon mating.
- The conventional TM series jack with EMI protection provided with a shield and ferrite core.
- The 8-conductor model conforming to RJ-45 and ISO8877 standards.

APPLICATIONS:

- LAN equipment • Office equipment • Measurement equipment
- HUB • Router • Computer • ISDN terminal

TM11 "EMI" protection connector is designed to fulfill the requirement of noise and "ESD" protection.

The design is in conformance with the F.C.C. regulation as specified in "476 C.F.R., Part 68, subpart F."

H9200

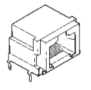

H9102 - H9103

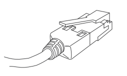

Shielded Jack — PCB Mount

Positions-Contacts	Digi-Key Part No.	Price Each 1	10	100
8-8	H9200-ND	5.31	4.40	3.30

Standard Style Cable Assemblies

Positions-Contacts	Length Ft. (M)	Cable Type	Termination	Digi-Key Part No.	Price Each
8-8	4 (1.22)	Straight	Double-Ended	H9102-ND	18.21
8-8	7 (2.13)	Straight	Double-Ended	H9103-ND	21.00

Modular Connectors and Jacks

Product Facts:

• Meets or exceeds FCC Part 68 rules and regulations; REA PE-76 and UL 1863 Communication Circuit Accessories • Meets 1000 volt dielectric requirement • Designed for direct mounting on pc boards • Designed for ease of soldering and board cleaning • Selectively gold plated contacts for lower cost • Surface mount jacks compatible with vapor phase environment • All jacks are flame retardant polyester, standard color black, unless specified otherwise • Listed by Underwriters Laboratories Inc., File No. E81956 • Certified by Canadian Standards Association File No. LR82669

Electrical Specifications: • Current Rating: 1.5 Amp maximum @ 25°C, derated to 0.2 Amp maximum @ 70°C ambient • Voltage Rating: 150VAC maximum • Dielectric Withstanding Voltage: 1000VAC, RMS, 60 Hz, 1 minute • Insulation Resistance: 500MΩ minimum • Surge Test: to 1000 volts **Mechanical Specifications:** • PC Board Retention: will not dislodge from pc board when subjected to 1 pound (4.4 N) pull before soldering and 10 pounds. (44 N) pull after soldering • Durability: 750 mating cycles **Material and Finish:** • Housing: Thru-hole: Polyester, UL 94V-0 rated Surface mount: Polyphenylene Sulfide, UL 94V-0 rated • Contact: .014 (0.36) thick phosphor bronze; plated .50µ" gold in contact area and 150µ" tin-lead on solder tails, over .50µ nickel underplate

Fig. 2 Product Facts:

• True mass displacement termination of jacketed cable with tinsel, solid or stranded conductors • Available for round or flat-oval cable • One piece construction with preloaded contacts • FCC and EIA/TIA industry standard size and performance • Selectively gold plated terminals • Recognized by Underwriters Laboratories Inc., File No. E81956 • Certified by Canadian Standards Association Certificate No. LR 7189A

Material and Finish: • Housing: Polycarbonate, UL 94V-2 flammability rating • Terminal: .014" (.36mm) thick, phosphor bronze; underplated with 100µ" nickel and plated with 50µ" gold in contact region and gold flash on remainder of terminal. **Electrical Specifications:** • 150VAC maximum at 1.5A @ 25°C, derated to .2A @ 70°C • Dielectric Withstanding Voltage: 1000VAC • Insulation Resistance: 500MΩ **Mechanical Specifications:** • Cable-to-Plug Tensile Strength: 17 pounds (76N) minimum • Durability: 750 mating cycles

External Strain Relief:

• Positively engaged to the plug housing • Improved shield contact path redundant contact points • 360° wrap on cable jacket and shield foil, extraordinary strain relief • Improved shield coverage at housing

Fig. 9 Product Facts:

• Performance exceeds Near End Crosstalk (NEXT) requirements of -40dB at 100 MHz per EIA/TIA 568A • Available in single port or multiple port configurations, shielded or unshielded • Eliminate need for customized printed circuit board compensation to achieve high performance

Material and Finish: • Housing: Polyester, black UL 94V-0 rated • Contact: Phosphor bronze, gold over nickel plated in contact area, tin-lead over nickel in solder area • Shield: Brass, bright tin-lead plated **Specifications:** • Current: 1.5 Amp maximum @ 25°C • Voltage: 150VAC maximum • Operating Temperature: -40°C ~ 70°C • Mating/Unmating Forces: 5 pounds maximum

Fig. 1

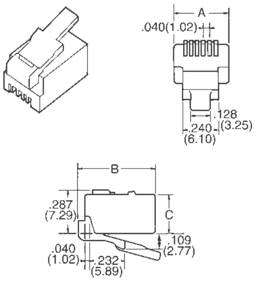

Fig. 2

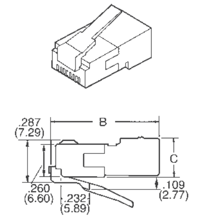

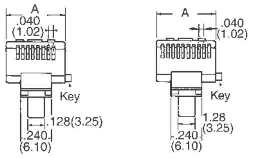

8 Position **10 Position**

External Strain Relief

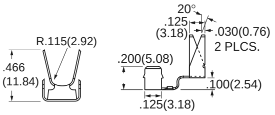

Fig. 3

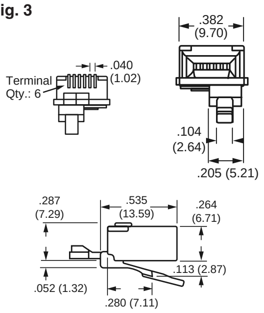

Fig. 4 – Side Entry

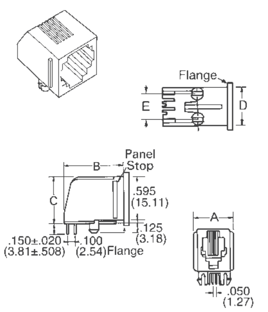

Fig.	Description	Positions Contacts	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Plug, Handset, Stranded, Flat Oval	4-4	.300 (7.62)	.525 (13.33)	.260 (6.60)	—	—	A9091-ND§	.26	.21	5-641334-3
	Plug, Stranded, Flat Oval	6-4	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9092-ND§	.26	.21	5-641335-3
	Plug, Solid, Flat Oval	6-4	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9116-ND§	.41	.34	5-556384-3
	Plug, Stranded, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.260 (6.60)	—	—	A9093-ND§	.31	.25	5-641337-3
	Plug, Solid, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9118-ND§	.42	.34	5-555042-3
	Plug, Stranded, Round	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9117-ND§	.39	.32	5-554710-3
	Plug, Small Solid, Flat Oval	6-6	.380 (9.65)	.525 (13.33)	.325 (8.25)	—	—	A9119-ND§	.63	.51	5-557970-3
	Plug, Long Body, Solid, Flat Oval	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9120-ND§	.85	.68	5-555426-3
	Plug, Stranded, Flat Oval, Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9121-ND§	.79	.64	5-555176-3
	Plug, Stranded, Round Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9122-ND§	.79	.64	5-555177-3
	Plug, Stranded, Shielded, Round Long	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9128-ND§	2.01	1.62	5-555175-3
	Plug, Shielded, Long Body, Oval	6-6	.380 (9.65)	.900 (22.86)	.325 (8.25)	—	—	A9027-ND§	1.57	1.26	5-555174-2
	Plug, Stranded, Flat Oval	6-2	.384 (9.76)	.530 (13.47)	.264 (6.71)	—	—	A24921-ND§	.29	.24	5-641333-2
	Plug, Solid, Flat Oval, Small	6-4	.384 (9.76)	.530 (13.47)	.264 (6.71)	—	—	A24922-ND†§	.81	.65	5-557965-2
2	Plug, Stranded, Flat Oval	8-8	.460 (11.68)	.845 (21.46)	.312 (7.92)	—	—	A9094-ND§	.59	.48	5-554739-3
	Plug, Keyed, Stranded, Flat Oval	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9058-ND§	4.15	3.32	5-554743-3
	Plug, Solid, Flat Oval	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9126-ND§	.63	.51	5-554720-3
	Plug, Solid, Round	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9123-ND§	.63	.51	5-557315-3
	Plug, Stranded, Round	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9125-ND§	.59	.48	5-554169-3
	Plug, Stranded, Small, Round, Cable	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24923-ND§	.41	.33	5-557961-2
	Plug, Solid, Round, Keyed	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9127-ND§	.59	.48	5-554170-3
	Plug, High Performance, Stranded, Round	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9059-ND§	.87	.70	5-558530-3
	Plug, Stranded, Shielded, High Perform., Round	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9111-ND§	2.11	1.69	5-569552-3
	Plug, Solid, Shielded, High Performance, Round	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9112-ND§	2.08	1.67	5-569550-3
	Plug, Solid, Unshielded, High Performance	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24920-ND§	.94	.75	5-569278-3
	Plug, Solid, Flat Oval, Small	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24924-ND†§	.63	.51	5-557972-2
	Plug, Stranded, Flat Oval, Small	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24925-ND†§	.65	.53	5-557973-3
	Plug, Solid Keyed, Flat Oval	8-8	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A24926-ND§	2.58	2.07	5-555417-2
	Plug, Stranded, Shielded, Flat Oval	8-8	.464 (11.79)	.915 (23.24)	.330 (8.38)	—	—	A9113-ND§	1.85	1.48	5-569542-3
	Plug, Stranded, Shielded, Round Long	8-8	.464 (11.79)	.915 (23.24)	.330 (8.38)	—	—	A9114-ND§	1.85	1.48	5-569532-3
	Plug, Solid, Shielded, Round	8-8	.464 (11.79)	.915 (23.24)	.330 (8.38)	—	—	A9115-ND§	2.01	1.61	5-569530-3
	Plug, Stranded, Round	10-10	.464 (11.79)	.895 (22.73)	.314 (7.98)	—	—	A9129-ND§	1.75	1.41	5-557963-3
	External Strain Relief Modular Connector	—	—	—	—	—	—	A9130-ND§	—	.79	558527-1
	Crimp Tool Assembly, External Strain Relief	—	—	—	—	—	—	A9800-ND	189.68	—	224928-1
	Die Set, Strain Relief Modular, use with A9996	—	—	—	—	—	—	A9801-ND	149.24	—	224928-2
	Pro-Crimper II Hand Tool Without Die	—	—	—	—	—	—	A9996-ND	66.00	—	354940-1
3	Plug With Offset Latch	6-6	.382 (9.70)	.535 (13.59)	.264 (6.71)	—	—	A9057-ND§	.88	.71	5-555237-2
	Plug, Round, Stranded, Offset	6-6	.382 (9.70)	.535 (13.59)	.264 (6.71)	—	—	A24918-ND§	.88	.71	5-555238-2
	Plug, Flat Oval, Solid, Offset	6-6	.382 (9.70)	.535 (13.59)	.264 (6.71)	—	—	A24919-ND§	.88	.71	5-555236-2
4	Jack, Side Entry With Panel Stops	4-4	.540 (13.72)	.810 (20.57)	.630 (16.00)	.440 (11.18)	.300 (7.62)	A31403-ND§	1.01	.87	5520249-2
	Jack, Side Entry With Panel Stops	6-2	.620 (15.75)	.815 (20.70)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A31404-ND§	.77	.67	5520250-1
	Jack, Side Entry With Panel Stops	6-4	.620 (15.75)	.815 (20.70)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A31405-ND§	.65	.56	5520250-2
	Jack, Side Entry With Panel Stops	6-6	.620 (15.75)	.815 (20.70)	.630 (16.00)	.520 (13.21)	.400 (10.16)	A31406-ND§	.67	.58	5520250-3
	Jack, Side Entry With Panel Stops, Offset	6-6	.625 (15.88)	.820 (20.83)	.635 (16.13)	.525 (13.34)	.400 (10.16)	A32489-ND	.85	.68	555003-1
	Jack, Side Entry With Panel Stops, Offset	6-6	.625 (15.88)	.820 (20.83)	.635 (16.13)	.525 (13.34)	.400 (10.16)	A32488-ND§	.79	.64	5555003-1
	Jack, Side Entry With Panel Stops	8-8	.700 (17.78)	.810 (20.57)	.630 (16.00)	.600 (15.24)	.450 (11.43)	A31407-ND§	.75	.65	5520251-4

† Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product. *§ RoHS Compliant*

(Continued)

Modular Connectors and Jacks *(Cont.)*

Fig.	Description	Positions	Dimensions - Inch (mm)					Digi-Key	Price Each		AMP
		Contacts	A	B	C	D	E	Part No.	1	25	Part No.
4	Jack, Side Entry With Panel Stops, Keyed	8-8	.700 (17.78)	.810 (20.57)	.630 (16.00)	.600 (15.24)	.450 (11.43)	A31408-ND§	.84	.73	5520252-4
	Jack, Side Entry With Flange	4-4	.570 (14.48)	.810 (20.57)	.680 (17.27)	.440 (11.18)	.300 (7.62)	A31399-ND§	1.01	.87	5520241-2
	Jack, Side Entry With Flange	6-4	.650 (16.51)	.810 (20.57)	.680 (17.27)	.520 (13.21)	.400 (10.16)	A31400-ND§	2.71	2.34	5520242-2
	Jack, Side Entry With Flange	6-6	.650 (16.51)	.810 (20.57)	.680 (17.27)	.520 (13.21)	.400 (10.16)	A31401-ND§	.79	.69	5520242-3
	Jack, Side Entry With Flange	8-8	.730 (18.54)	.810 (20.57)	.680 (17.27)	.600 (15.24)	.450 (11.43)	A9080-ND	2.94	2.53	520243-4
	Jack, Side Entry With Flange	8-8	.730 (18.54)	.810 (20.57)	.680 (17.27)	.600 (15.24)	.450 (11.43)	A31402-ND§	2.75	2.37	5520243-4
	Jack Without Panel Stops and Flange	4-4	.440 (11.18)	.810 (20.57)	.630 (16.00)	—	.300 (7.62)	A31427-ND§	.79	.68	5555980-1
	Jack Without Panel Stops and Flange	6-4	.520 (13.21)	.810 (20.57)	.630 (16.00)	—	.400 (10.16)	A31426-ND§	.62	.54	5555979-1
	Jack Without Panel Stops and Flange	6-6	.520 (13.21)	.815 (20.70)	.630 (16.00)	—	.400 (10.16)	A31417-ND§	.85	.74	5520470-3
	Jack Without Panel Stops and Flange	8-8	.600 (15.24)	.810 (20.57)	.630 (16.00)	—	.450 (11.43)	A31416-ND§	.90	.78	5520426-4
	Jack Without Panel Stops and Flange, Keyed	8-8	.600 (15.24)	.810 (20.57)	.630 (16.00)	—	.450 (11.43)	A9051-ND	1.86	1.60	554517-1
	Jack Without Panel Stops and Flange, Keyed	8-8	.600 (15.24)	.810 (20.57)	.630 (16.00)	—	.450 (11.43)	A31418-ND§	1.74	1.50	5554517-1
5	Jack With Stops	4-4	.550 (13.97)	.625 (15.88)	.645 (16.38)	.450 (11.43)	—	A31409-ND§	.58	.50	5520257-2
	Jack With Stops	6-4	.630 (16.00)	.625 (15.88)	.645 (16.38)	.530 (13.46)	—	A31410-ND§	.62	.54	5520258-2
	Jack With Panel Stops	6-6	.630 (16.00)	.625 (15.88)	.645 (16.38)	.530 (13.46)	—	A31411-ND§	.64	.55	5520258-3
	Jack With Stops	8-8	.710 (18.03)	.625 (15.88)	.645 (16.38)	.610 (15.49)	—	A31412-ND§	.65	.57	5520259-4
	Jack With Stops, Keyed	8-8	.710 (18.03)	.625 (15.88)	.645 (16.38)	.610 (15.49)	—	A9052-ND	.90	.78	520260-4
	Jack With Stops, Keyed	8-8	.710 (18.03)	.625 (15.88)	.645 (16.38)	.610 (15.49)	—	A31413-ND§	.84	.73	5520260-4
	Jack, Top Entry Without Stops	4-4	.455 (11.43)	.630 (16.00)	.650 (16.51)	—	.300 (7.62)	A31431-ND§	.75	.65	5558872-1
	Jack, Top Entry Without Stops	6-4	.530 (13.46)	.625 (15.88)	.645 (16.38)	—	.400 (10.16)	A31414-ND§	1.41	1.22	5520425-2
	Jack, Top Entry Without Stops	6-6	.530 (13.46)	.625 (15.88)	.645 (16.38)	—	.400 (10.16)	A31415-ND§	.77	.66	5520425-3
	Jack, Top Entry Without Stops	8-8	.615 (15.62)	.630 (16.00)	.645 (16.38)	—	.450 (11.43)	A31428-ND§	.65	.57	5556416-1
	Jack, Top Entry Without Stops, Keyed	8-8	.615 (15.62)	.630 (16.00)	.645 (16.38)	—	.450 (11.43)	A31425-ND§	1.14	.99	5555799-1
	Jack, Top Entry With Stops, Shielded	8-8	.710 (18.03)	.625 (15.88)	.645 (16.38)	.610 (15.49)	.450 (11.43)	A31430-ND§	1.28	1.10	5557969-1
	Jack, Top Entry With Stops, Shielded, Keyed	8-8	.715 (18.17)	.660 (16.77)	.660 (16.77)	.650 (16.51)	.450 (11.43)	A31429-ND§	1.34	1.15	5557730-1
6A	Jack With Stops	6-6	—	—	—	—	—	A31420-ND§	.84	.73	5555163-1
6A	Jack With Stops	6-4	—	—	—	—	—	A31421-ND§	1.40	1.21	5555163-2
6B	Jack With Stops	8-8	—	—	—	—	—	A31419-ND§	.89	.77	5555162-1
6C	Jack With Stops, Keyed	8-8	—	—	—	—	—	A31424-ND§	.73	.63	5555166-1
6A	Jack Without Stops	6-6	—	—	—	—	—	A9031-ND	.72	.62	555165-1
6A	Jack Without Stops	6-6	—	—	—	—	—	A31422-ND§	.67	.58	5555165-1
6A	Jack Without Stops	6-4	—	—	—	—	—	A31423-ND§	.65	.57	5555165-2
	Jack Without Stops	6-2	—	—	—	—	—	A24907-ND	1.91	1.65	555165-5
	Jack Without Stops	6-2	—	—	—	—	—	A31443-ND§	1.78	1.54	5555165-5
6A	Jack Without Stops	6-6	—	—	—	—	—	A31476-ND§	1.00	.86	5569026-1
6B	Jack Without Stops	8-8	—	—	—	—	—	A31442-ND§	.73	.63	5555164-1
6B	Jack Without Stops, Keyed	8-6	—	—	—	—	—	A31477-ND§	1.08	.93	5569118-1
6C	Jack Without Stops, Keyed	8-8	—	—	—	—	—	A31444-ND§	.73	.63	5555167-1
7	Jack, 2 Position, Unshielded	8-8	1.00 (25.40)	1.200 (30.48)	—	—	—	A31449-ND§	2.15	1.85	5557560-1
	Jack, 3 Position, Unshielded	8-8	1.550 (39.37)	1.750 (44.45)	—	—	—	A9014-ND	12.95	11.14	557561-1
	Jack, 3 Position, Unshielded	8-8	1.550 (39.37)	1.750 (44.45)	—	—	—	A31450-ND§	11.55	9.94	5557561-1
	Jack, 4 Position, Unshielded	8-8	2.100 (53.34)	2.300 (58.42)	—	—	—	A31451-ND§	4.15	3.57	5557562-1
	Jack, 5 Position, Unshielded	8-8	2.650 (67.31)	2.850 (72.39)	—	—	—	A31452-ND§	5.30	4.56	5557563-1
	Jack, 6 Position, Unshielded	8-8	3.200 (81.28)	3.400 (86.36)	—	—	—	A31453-ND§	6.23	5.36	5557564-1
	Jack, 8 Position, Unshielded	8-8	4.300 (109.22)	4.500 (114.30)	—	—	—	A31454-ND§	8.40	7.23	5557566-1
	Jack, 1 Position, Unshielded	8-8	.450 (11.43)	.595 (15.11)	—	—	—	A31457-ND§	1.33	1.14	5557785-1
	Jack, 1 Position, Unshielded	10-10	.450 (11.43)	.595 (15.11)	—	—	—	A31459-ND§	2.27	1.95	5558065-1
	Jack, 1 Position, Unshielded, Keyed	10-10	.450 (11.43)	.595 (15.11)	—	—	—	A31460-ND§	3.26	2.81	5558066-1
8	Jack, 6 Position, Shielded, PCB Ground	8-8	3.200 (81.28)	3.430 (87.12)	.537 (13.64)	—	—	A9022-ND	13.03	10.42	557572-1
	Jack, 6 Position, Shielded, PCB Ground	8-8	3.200 (81.28)	3.430 (87.12)	.537 (13.64)	—	—	A31455-ND§	12.18	10.48	5557572-1
	Jack, 10 Position, Shielded, Keyed, PCB Ground	8-8	.450 (11.43)	.625(15.88)	.537 (13.64)	—	—	A31462-ND§	5.71	4.57	5558068-1
	Jack, 4 Position, Shielded, Panel Ground	8-8	2.10 (53.34)	2.33 (59.18)	.537 (13.64)	—	—	A9098-ND	21.70	17.36	558524-1
	Jack, 6 Position, Shielded, Panel Ground	8-8	3.20 (81.28)	3.43 (87.12)	.537 (13.64)	—	—	A9101-ND	14.53	11.62	558525-1
	Jack, 8 Position, Shielded, PC Ground	8-8	4.30 (109.22)	4.53 (115.06)	.537 (13.64)	—	—	A9103-ND	15.20	12.16	558505-1
	Jack, 8 Position, Shielded, Panel Ground	8-8	4.30 (109.22)	4.53 (115.06)	.537 (13.64)	—	—	A9104-ND	34.28	27.42	558526-1
	Jack, 1 Position, Shielded, PCB Ground	10-10	.450 (11.43)	.625(15.88)	.537 (13.64)	—	—	A31461-ND§	3.61	2.89	5558067-1
	Jack, 1 Position, Shielded, Panel Ground	10-10	.450 (11.43)	.625(15.88)	.537 (13.64)	—	—	A31463-ND§	4.51	3.61	5558070-1
	Jack, 6 Position, Shielded, Panel Ground	8-8	3.200 (81.28)	3.430 (87.12)	.537 (13.64)	—	—	A31456-ND§	7.25	6.24	5557572-3

Fig. 5 – Top Entry

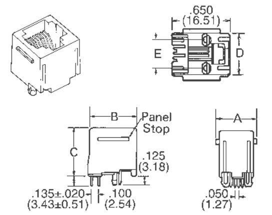

Fig. 6 – Side Entry, Low Profile

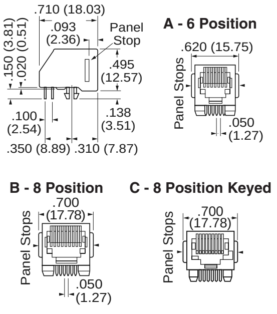

A - 6 Position

B - 8 Position

C - 8 Position Keyed

Fig. 7

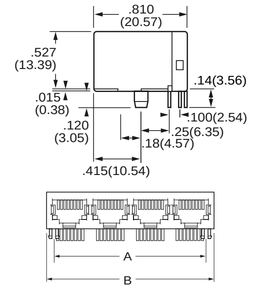

Fig. 8

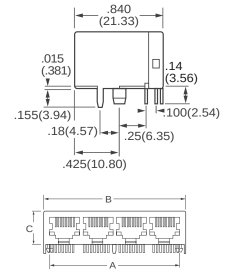

Fig. 9 – Side Entry with Panel Stops

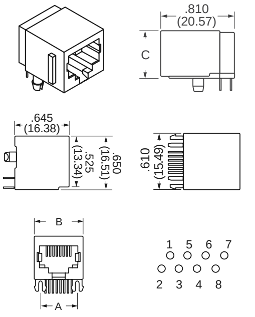

† Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product. **§ *RoHS Compliant***

(Continued)

Modular Connectors and Jacks *(Cont.)*

Fig.	Description	Positions Contacts	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	AMP Part No.
9	Jack, 1 Position, Unshielded With Panel Stops	8-8	.450 (11.43)	.595 (15.11)	.527 (13.39)	—	—	A9088-ND	4.58	3.94	558343-1
	Jack, 1 Position, Unshielded With Panel Stops	8-8	.625 (15.88)	.840 (21.34)	.537 (13.64)	—	—	A31467-ND§	4.30	3.70	5558343-1
	Jack, 1 Position, Unshielded Without Panel Stops	8-8	.625 (15.88)	.840 (21.34)	.537 (13.64)	—	—	A31465-ND§	1.98	1.70	5558341-1
	Jack, 6 Position, Unshielded Without Panel Stops	8-8	3.40 (86.36)	.810 (20.57)	.527 (13.39)	—	—	A31469-ND§	16.55	14.24	558501-1
	Jack, 1 Position, Shielded, PC Ground	8-8	.625 (15.875)	.840 (21.34)	.537 (13.64)	—	—	A31466-ND§	2.50	2.01	5558342-1
	Jack, 1 Position, Shielded, Panel Ground	8-8	.625 (15.875)	.840 (21.34)	.537 (13.64)	—	—	A31468-ND§	3.05	2.44	5558344-1
	Jack, 4 Position, Shielded, PC Ground	8-8	2.33 (59.18)	.840 (21.34)	.537 (13.64)	—	—	A31470-ND§	11.80	9.44	5558503-1
	Jack, 4 Position, Shielded, Panel Ground	8-8	2.33 (59.18)	.840 (21.34)	.537 (13.64)	—	—	A31473-ND§	17.63	14.10	5558524-1
	Jack, 6 Position, Shielded, PC Ground	8-8	3.43 (87.12)	.840 (21.34)	.537 (13.64)	—	—	A31471-ND§	26.38	21.10	5558504-1
	Jack, 6 Position, Shielded, Panel Ground	8-8	3.40 (86.36)	.810 (20.57)	.527 (13.39)	—	—	A31474-ND§	13.55	10.84	5558525-1
	Jack, 8 Position, Shielded, PC Ground	8-8	4.53 (115.06)	.840 (21.34)	.537 (13.64)	—	—	A31472-ND§	14.23	11.38	5558505-1
	Jack, 8 Position, Shielded, Panel Ground	8-8	4.53 (115.06)	.840 (21.34)	.537 (13.64)	—	—	A31475-ND§	26.83	21.46	5558526-1
10	Jack, PC Ground	6-6	.537 (13.64)	.720 (18.29)	.495 (12.57)	—	—	A31440-ND§	.98	.79	5555154-1
	Jack, PC Ground	6-4	.537 (13.64)	.720 (18.29)	.495 (12.57)	—	—	A31441-ND§	1.13	.90	5555154-2
	Jack, PC Ground	8-8	.625 (15.88)	.720 (18.29)	.495 (12.57)	—	—	A9026-ND	1.13	.91	555153-1
	Jack, PC Ground	8-8	.625 (15.88)	.720 (18.29)	.495 (12.57)	—	—	A31438-ND§	1.05	.85	5555153-1
	Jack, PC Ground	8-8	.705 (17.91)	.725 (18.42)	.500 (12.70)	—	—	A31439-ND§	1.21	.97	5555153-6
	Jack, PC Ground, Keyed	8-8	.625 (15.88)	.720 (18.29)	.495 (12.57)	—	—	A9056-ND	1.46	1.17	556591-1
	Jack, PC Ground, Keyed	8-8	.625 (15.88)	.720 (18.29)	.495 (12.57)	—	—	A31447-ND§	1.37	1.10	5556591-1
	Jack, Panel Ground	6-6	.545 (13.84)	.720 (18.29)	.495 (12.57)	—	—	A31435-ND§	1.15	.92	5555140-1
	Jack, Panel Ground	6-4	.545 (13.84)	.720 (18.29)	.495 (12.57)	—	—	A31436-ND§	1.13	.90	5555140-2
	Jack, Panel Ground	8-8	.625 (15.88)	.720 (18.29)	.495 (12.57)	—	—	A31437-ND§	1.05	.85	5555141-1
11	Jack With Stops	6-6	—	—	—	—	—	A31432-ND§	1.57	1.36	5555077-1
	Jack With Stops	6-4	—	—	—	—	—	A31433-ND§	1.55	1.34	5555077-2
	Jack Without Stops	6-6	—	—	—	—	—	A31448-ND§	1.57	1.36	5557314-1
12	Jack, 8 Position With Stops	8-8	—	—	—	—	—	A31445-ND§	1.66	1.43	5555248-1
	Jack, 8 Position With Stops, Keyed	8-8	—	—	—	—	—	A9038-ND	2.22	1.92	555078-1
	Jack, 8 Position With Stops, Keyed	8-8	—	—	—	—	—	A31434-ND§	2.08	1.79	5555078-1
	Jack, 8 Position Without Stops	8-8	—	—	—	—	—	A9045-ND	1.78	1.53	555764-1
	Jack, 8 Position Without Stops	8-8	—	—	—	—	—	A31446-ND§	1.66	1.43	5555764-1
	Jack, 8 Position With Stops, Keyed, Shielded	8-8	—	—	—	—	—	A31464-ND§	2.26	1.81	5558178-1

Fig. 10 – Modular Jack

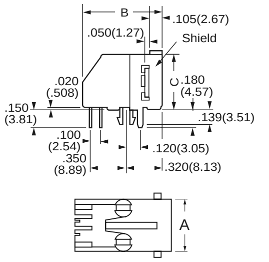

Fig. 11 – Surface Mount

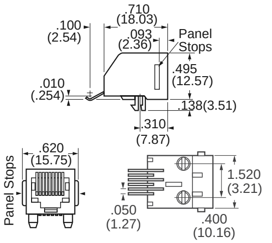

Fig. 12 – Surface Mount

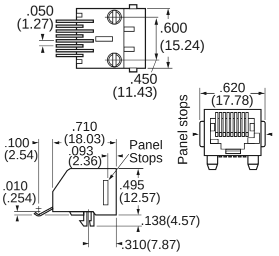

† Small conductor products are for .029 - .034 (.737 - .864) OD conductors. Small conductor product housings are tinted blue to differentiate from standard product. § ***RoHS Compliant***

Stacked Modular Jacks

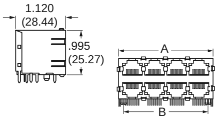

Housing: Polysulfone, black, UL 94V-0 rated
Contact: .013 (0.33) phosphor bronze; plated .000050 (0.00127) gold in localized area and .00150 (0.00381) tin-lead on solder tails, over .000050 (0.00127) nickel underplate
Shield: .010 (0.25) copper alloy tin-lead plated terminals per port: All jacks are 8 positions / 8 contacts.

Description	Total # of Ports	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded With Panel Ground							
2x1 Ports	2	.68 (17.27)	.45 (11.43)	A24917-ND	9.53	8.20	569381-1
2x3 Ports	6	1.78 (45.21)	1.55 (39.37)	A24189-ND	18.00	15.48	569261-1
2x6 Ports	12	3.43 (87.12)	3.20 (81.28)	A24912-ND	17.75	15.27	569263-1
Shielded With Panel Ground - RoHS Compliant							
2x1 Ports	2	.68 (17.27)	.45 (11.43)	A31482-ND	8.88	7.10	5569381-1
2x3 Ports	6	1.78 (45.21)	1.55 (39.37)	A31478-ND	16.85	13.48	5569261-1
2x4 Ports	8	2.33 (59.18)	2.10 (53.34)	A31479-ND	13.68	10.94	5569262-1
2x6 Ports	12	3.43 (87.12)	3.20 (81.28)	A31480-ND	16.58	13.26	5569263-1
2x8 Ports	16	4.53 (115.06)	4.30 (109.22)	A31481-ND	30.10	24.08	5569264-1

Modular Jack with Shorting Bar

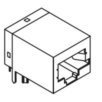

Housing: Polysulfone, black, UL 94V-0 rated
Contact: .013 (0.33) phosphor bronze; plated .000050 (0.00127) gold in localized area and .00150 (0.00381) tin-lead on solder tails, over .000050 (0.00127) nickel underplate
Shield: .010 (0.25) copper alloy tin-lead plated

Description	Shorting Configurations	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Shielded PCB Ground Jack - RoHS Compliant					
8-Position RJ-48-X	1 to 4 and 2 to 5	A31458-ND	17.50	15.05	5557789-1

Modular Plugs Tooling

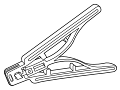

• Strips and terminates cable • Lightweight • Low cost

A9989-ND Crimp Tool for RJ-11 (6) Position Modular Plugs **$25.22**

Modular Crimp Tooling

Fig. 1

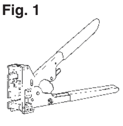

Cuts, strips, crimps and terminates modular plug connectors. **Features:** color-coded dies, a cable jacket stripper, smooth ratcheting action to assure positive connector termination and spring-actuated and cushioned handles for fatigue-free use. Available as entire crimping tool, or dies may be purchased separately. Overall size: 7"

Fig. 2

Ratchet control provides complete termination cycle Interchangeable die sets.

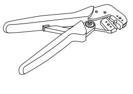

Fig.	Description	Digi-Key Part No.	Price Each	AMP Part No.
1	Modular Plug Crimp Tool without Dieset	A9931-ND	85.89	2-231652-0
	Modular Plug Crimp Tool with 4-4 Dieset	A9902-ND	117.41	2-231652-3
	Modular Plug Crimp Tool with 6-6 Dieset	A9901-ND	117.41	2-231652-8
	Mod. Plug Crimp Tool w/ 6-6 Long Body Dieset	A9029-ND	117.41	2-231652-7
	Modular Plug Crimp Tool with 6-6 Offset Dieset	A9930-ND	117.41	2-231652-6
	Modular Plug Crimp Tool with 8-8 Dieset	A9900-ND	117.41	2-231652-1
	Modular Plug Crimp Tool w/ 8-8 High Perfor. Dieset	A9929-ND	117.41	3-231652-0
—	4-Position Handset Dieset	A9906-ND	39.41	853400-3
	4-6 Position Die Set	A9905-ND	39.41	853400-8
	6-6 Position Long Body Die Set	A9030-ND	39.41	853400-7
	6-6 Position Offset Die Set	A9927-ND	39.41	853400-6
	8-8 Position Die Set	A9904-ND	39.41	853400-1
	8-8 Position High Perform. Die Set	A9926-ND	39.41	1-853400-0
—	Replacement Wire Stripper Blade Set Kit	A9976-ND	35.46	231662-4
	Wire Stripper Replacement Blades	A9928-ND	3.83	231662-5
2	Pro-Crimper II Hand Tool without Dies	A9996-ND	66.00	354940-1
	10-Position, Pro-Crimper II	A9798-ND	290.88	58560-1
—	10-Position Die Set Only, Pro-Crimper II (Use with A9996-ND)	A9799-ND	254.52	58560-2
—	Crimp Tool, External Strain Relief, Pro-Crimper II	A9800-ND	189.68	224928-1
	Die Set, External Strain Relief (for A9996-ND)	A9801-ND	149.24	224928-2

Hand Tool Kit

Contents: Carrying case with frame; RJ-11 (4 and 6) RJ-45 (8)-Position die sets, blade replacement kit and small screwdriver.

A9040-ND Production Tool Kit **$207.23**

Production Tool Kit

Carrying case with frame; 4-Pos. handset, RJ-11 (4 and 6) RJ-45 (8)-Position die sets, blade replacement kit and small screwdriver.

A9967-ND Production Tool Kit **$245.06**

tyco
Electronics
AMP

Four Position Data Connector for the IEEE 802.5 Local Area Network

Kit Description: Connector (top and bottom cover assemblies), stuffer box, ferrule, dust cover, latch lock and strain relief bushings for 45, 90 and 180 degree cable exit.

Cableless Balun Kit: A four position cableless balun kit is available which allows the customer to assemble his own electronic components which are required to convert the balanced twisted-pair cable to unbalanced coaxial cables. This kit contains a single BNC jack receptacle but will accept a second BNC receptacle which can be ordered separately to provide the dual port version.

Material for A9105 and A9106: • Stuffer Cap: Clear polycarbonate • AMP-BARREL Terminal: Tin plated phosphor bronze • Label: Adhesive backed polyester • Contacts: Nickel plated high strength copper alloy having selective gold plating in contact area and selective tin plating in AMP-BARREL terminal area • Housing: Black thermoplastic, 94V-0 rated • Conductor Type: Solid or stranded having .048 maximum insulation O.D.

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Category 3 Modular Telephone Jack						
1	6	IBM	A4004-ND	5.05	4.35	553983-1
2	8	IBM	A4005-ND	5.73	4.93	554546-1
1	6	Commercial	A9105-ND	5.40	4.65	554171-1
2	8	Commercial	A9106-ND	5.65	4.86	554578-1
Category 3 Panel Mount Coupler						
3	6	Right Angle	A9107-ND	4.15	3.32	555049-1
	8	Right Angle	A9108-ND	4.43	3.54	555051-1
4	6	In-Line	A9109-ND	4.10	3.28	555050-1
	8	In-Line	A9110-ND	3.75	3.00	555052-1
RS-232 to Modular Jack						
5	6	DB25P to RJ11 (6-6)	A23462-ND	13.54	11.85	748100-1
	6	DB25S to RJ11 (6-6)	A23463-ND	39.46	34.53	748152-1
	8	DB25P to RJ45 (8-8)	A23460-ND	21.03	17.53	747772-1
	8	DB25S to RJ45 (8-8)	A23461-ND	13.78	12.06	747868-1

Fig. 1 A4004

Three Pair Modular Jack
(6 Position) IBM Equivalent
P/N: 831575

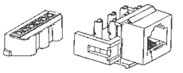

Fig. 2 A4005

Four Pair Modular Jack
(8 Position) IBM Equivalent
P/N: 6091030

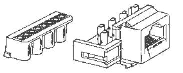

Fig. 3

Compact couplers for two modular plugs; couplers snap into 0.585” x 0.765” (14.86mm x 19.43mm) rectangular wallplate cutouts. Wired one-to-one.

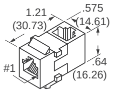

Fig. 4

Compact couplers for two modular plugs; couplers snap into 0.585” x 0.765” (14.86mm x 19.43mm) rectangular wallplate cutouts. Wired one-to-one.

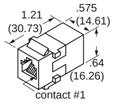

Fig. 5

These versatile connectors convert a 25 position plug or receptacle interface to modular jack interface. Transition Connectors are used most often with data, data-over-voice and on the dropside or output device side of mainframes, personal or business computers.

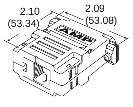

USB Connectors

Figure 1, 2 and 4 Features:

- Shell and Contacts: Copper Alloy
- Housing: UL 94V-0 rated, thermoplastic
- Contacts: 0.076 µm minimum Gold over 0.76 µm minimum Palladium-Nickel on mating area.

Figure 3 Features:

- Housing: High temperature thermoplastic UL 94V-0
- Contacts: Phosphor Bronze, 30 µm minimum Gold plated in contact area
- Shell: Phosphor Bronze

RoHS COMPLIANT Pb

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel† Size	Pricing	AMP Part No.
1	USB Receptacle Type B, Right Angle	Black	A31725-ND	1.58	1.44	1.02	—	—	292304-1
2	USB Receptacle Type A, Right Angle	Black	A31726-ND	1.08	.98	.70	—	—	292303-1
3	Mini USB Receptacle Type B, Right Angle	Gold	A31727CT-ND	1.66	—	1.00	3,500	631.16/M	1734035-2
4	Receptacle, Type A, Right Angle, 4 over 4 Position	Black	A31728-ND	1.59	1.45	1.03	—	—	5787617-1

† For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

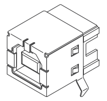

Fig. 2

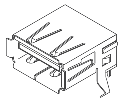

Fig. 3

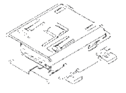

Fig. 4

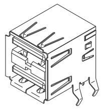

Industrial Ethernet Connectors

Features:

• Threaded outer connection • Environmental sealing (IP67 rated) • Vibration resistance • Secure, robust connections • Provides for a reliable performance in electrically noisy conditions found on most factory floors • Compatible with Category 5e cable • Fully intermateable with unshielded product

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
Plug						
1	Field-Attachable, 0.1-0.26” (2.5-6.5mm) Acceptable Cable Diameter	A30691-ND	15.85	14.69	11.37	1546440-1
Receptacles						
2	110 Punchdown Block with 568A and 568B Wiring	A30680-ND	36.67	34.00	26.30	1546404-1
3	Direct PCB Mount 8 Pin, Front-Coupling Through-Hole Receptacle	A30682-ND	23.02	21.34	16.51	1546405-1
4	with Standard PC Board	A30683-ND	25.42	23.56	18.23	1546409-1
	(10 Base-T) with Standard PC Board and 12” (30cm) of Cable	A30684-ND	28.74	26.64	20.61	1546410-1
	(568A) with Standard PC Board with 12” (30cm) of Cable	A30685-ND	28.74	26.64	20.61	1546411-1
	(568B) with Standard PC Board with 12” (30cm) of Cable	A30686-ND	38.27	35.48	27.45	1546412-1
5	RJ-45 Bulkhead Passthrough with Backside RJ-45 Jack	A30687-ND	27.51	25.50	19.73	1546413-1
	RJ-45 Bulkhead Passthrough with 12” (30cm) of Patch Cord	A30688-ND	30.83	28.58	22.11	1546414-1
	RJ-11 Bulkhead Passthrough with Backside RJ-45 Jack	A30689-ND	27.51	25.50	19.73	1546415-1
Female-to-Female Adapters						
6	Female-Female RJ45 Jack-Jack	A30690-ND	56.66	52.52	40.64	1546574-1
Double-Ended Cordset						
7	1 Meter (3.3’) Solid Core Cable, Industrial (both ends)	A30692-ND	46.34	40.55	34.76	1546451-1
	5 Meter (16.4’) Solid Core Cable, Industrial (both ends)	A30693-ND	79.48	69.55	59.61	1546451-2
	10 Meter (32.8’) Solid Core Cable, Industrial (both ends)	A30694-ND	111.08	97.20	83.31	1546451-3
	2 Meter (6.6’) Solid Core Cable, Industrial/Commercial Ends	A30695-ND	75.96	66.47	56.97	1546451-4
	2 Meter (6.6’) Proplex Cable, Industrial (both ends)	A30696-ND	76.32	66.78	57.24	1546452-1
	5 Meter (16.4’) Proplex Cable, Industrial (both ends)	A30697-ND	101.76	89.04	76.32	1546452-2
	2 Meter (6.6’) Stranded Cable, Industrial (both ends)	A30698-ND	70.86	62.01	53.15	1546453-1
	5 Meter (16.4’) Stranded Cable, Industrial (both ends)	A30699-ND	79.48	69.55	59.61	1546453-2
Caps						
—	Connector Closure Cap IP67 with Lanyard	A30700-ND	12.94	11.99	9.28	1546406-1
	Connector Receptacle Cap IP65	A30701-ND	8.86	8.21	6.36	1546407-1
	Connector Plug Cap IP67 with Lanyard	A30702-ND	15.64	14.50	11.22	1546408-1
Tool						
—	Punchdown, with 110 Blade	A30681-ND	49.50	—	—	1738607-1
Plug Kit						
8	RJ45 Solid Plug Kit	A31778-ND	10.11	9.37	7.25	1738607-1
	RJ45 Strand Plug Kit	A31779-ND	10.11	9.37	7.25	1738607-2
Receptacle Kit						
9	RJ45 Receptacle Kit	A31781-ND	20.44	18.95	14.66	1738601-1
	RJ45 Receptacle Cover	A31780-ND	8.04	7.45	5.77	1738611-1

Fig. 1

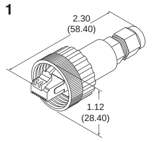

Fig. 2

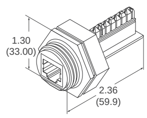

Fig. 3

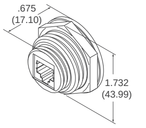

Fig. 4

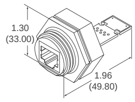

Fig. 5

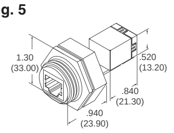

Fig. 6

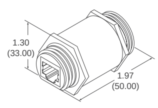

Fig. 7

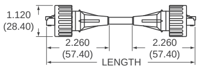

Fig. 8

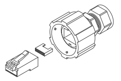

Mates with Fig. 9

Fig. 9

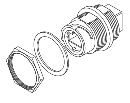

Mates with Fig. 8

“TM” Modular Connectors

Fig.1

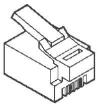

Fig. 2

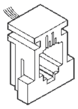

Fig. 3

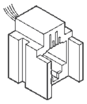

Fig. 4

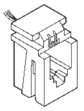

Fig. 5

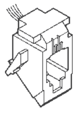

Fig. 6

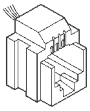

Fig. 7

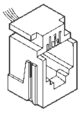

Fig. 8

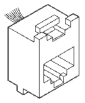

Fig. 9

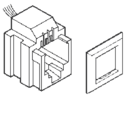

Fig. 10

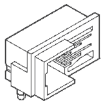

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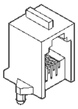

Fig. 12

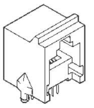

Fig. 13

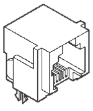

Fig. 14

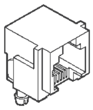

Fig. 15

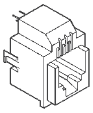

Fig. 16

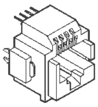

Fig. 17

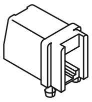

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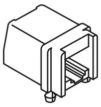

Fig. 19

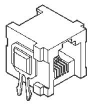

Fig. 20

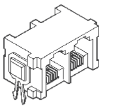

Fig. 21

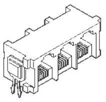

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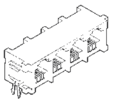

Fig. 23

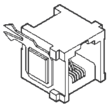

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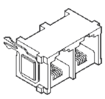

Fig. 25

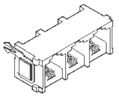

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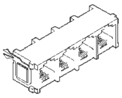

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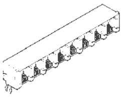

Fig. 28

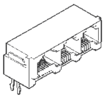

Fig. 29

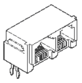

Fig. 30

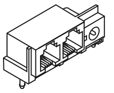

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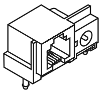

Fig. 32

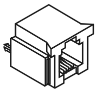

Fig. 33

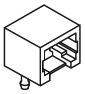

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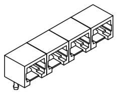

Fig. 35

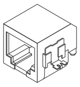

Fig. 36

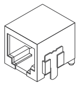

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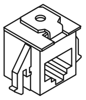

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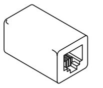

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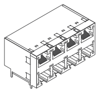

Fig.40

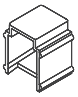

Fig.	Positions-Contacts	Description	Dimensions (mm)			Digi-Key Part No.	Price Each			Hirose Part No.
			W	H	D		1	10	100	
Plugs (for IDC Termination with Flat Line Cord)										
1	4-4	Plug	7.7	6.6	13.4	H9091-ND	1.33	1.09	.79	TM3P-44P
	6-4		9.7	6.6	13.4	H9092-ND	1.41	1.15	.84	TM3P-64P
	6-6		9.7	6.6	13.4	H9093-ND	1.63	1.34	.97	TM3P-66P
	8-8		11.7	6.6	22.5	H9094-ND	2.21	1.84	1.36	TM8P-88P
Receptacles — with 6” (152.4mm) Wire Leads; Color: Gray										
2	4-4	Receptacle	17.5	20.5	10.2	H9001-ND	2.18	1.81	1.34	TM1R-616B44-35S-150
3	4-4		12.4	17.4	14.3	H9002-ND	1.98	1.65	1.22	TM1R-616M44-35S-150A
4	4-4		12.4	21.3	12.5	H9003-ND	7.10	6.01	4.51	TM1R-616P44-35S-150
5	4-4		15.3	20.5	10.2	H9018-ND	2.63	2.19	1.62	TM1R-616W44-4S-150M
6	6-4		14.9	18.3	13.7	H9009-ND*	2.31	1.92	1.42	TM1RV-623K64-35S-150
7	6-4	Receptacle	12.4	21.4	12.5	H9010-ND*	2.24	1.87	1.38	TM1RV-623P64-35S-150
7	6-6		12.4	21.4	12.5	H9016-ND*	2.83	2.35	1.74	TM1RV-623P66-35S-150
8	8-8		16.0	18.4	12.5	H9021-ND*	5.13	4.25	3.19	TM1RV-647AF88-35S150
Receptacles — Panel Mount w/ 6” (152.4mm) Wire Leads (Bezel Included); Color: Brown										
9	6-4	Receptacle	14.9	18.3	13.7	H9062-ND	3.80	3.15	2.36	TM2RG-L64-5S-150
	6-6		14.9	18.3	13.7	H9063-ND	4.38	3.63	2.72	TM2RG-L66-5S-150
Receptacles — P.C. Board Mount; Color: Gray										
10	4-4	Receptacle	20.0	11.0	10.5	H9031-ND	2.80	2.33	1.72	TM5RF-44
	6-4		24.6	13.0	14.0	H9032-ND	2.70	2.25	1.66	TM5RF-64
	6-6		24.6	13.0	14.0	H9033-ND	3.15	2.62	1.94	TM5RF-66
11	4-4	Receptacle	18.0	18.6	14.3	H9041-ND	2.47	2.06	1.52	TM5RC-44
11	6-4		18.0	21.1	14.3	H9042-ND	2.47	2.06	1.52	TM5RC-64
11	6-6		18.0	21.1	14.3	H9043-ND	3.15	2.62	1.94	TM5RC-66(01)
12	8-8		18.1	21.2	17.5	H9044-ND	4.38	3.63	2.72	TM5RC-88
13	4-4	Receptacle	12.8	14.0	14.0	H9081-ND	2.96	2.46	1.82	TM5RJ3-44
	6-4	Receptacle	14.8	14.0	14.0	H9082-ND	2.47	2.06	1.52	TM5RJ1-64
	6-6	Receptacle	14.8	14.0	14.0	H9083-ND	2.89	2.41	1.78	TM5RJ1-66
	8-8	Receptacle (Keyed)	19.2	14.0	16.0	H9084-ND	3.10	2.57	1.93	TM5RJ1-88
14	6-4	Receptacle	14.8	14.0	14.0	H9126-ND	2.47	2.06	1.52	TM5RJ2-64
	6-6	Receptacle	14.8	14.0	14.0	H9127-ND	3.06	2.54	1.88	TM5RJ2-66
	8-8	Receptacle (Keyed)	19.2	14.0	16.0	H9085-ND	2.80	2.33	1.72	TM5RJ-88
	8-8	Receptacle (Keyed)	18.6	14.0	14.0	H9128-ND	4.00	3.32	2.49	TM5RJ2-88
17	6-2	Receptacle	13.0	14.5	18.0	H9122-ND	2.08	1.73	1.28	TM5RE1-62(50)
17	4-4		13.0	14.5	18.0	H9123-ND	2.70	2.25	1.66	TM5RE1-44
17	6-4		15.0	14.5	18.0	H9124-ND	2.47	2.06	1.52	TM5RE1-64
18	6-6		15.0	14.5	18.0	H9125-ND	3.22	2.68	1.98	TM5RE1-66
Receptacles — Top Entry P.C. Board Mount; Color: White										
15	4-4	Low Profile	12.9	18.3	15.0	H9071-ND	2.83	2.35	1.74	TM3RA-44
15	6-4		14.9	18.3	15.0	H9072-ND	2.83	2.35	1.74	TM3RA-64
15	6-6		14.9	18.3	15.0	H9073-ND	3.22	2.68	1.98	TM3RA-66
16	8-8		16.9	18.3	15.0	H9074-ND	5.63	4.66	3.50	TM3RA-88
Receptacles — P.C. Board Mount with Tin Hold-Down Tabs; Color: Gray										
10	4-4	PC Mount	20.0	11.0	10.5	H9034-ND	2.73	2.27	1.68	TM5RF1-44
19	6-2		18.0	15.4	16.0	H9064-ND	3.06	2.54	1.88	TM2REA-0602
19	6-4		18.0	15.4	16.0	H9057-ND	3.34	2.76	2.07	TM2REA-0604
19	6-6		18.0	15.4	16.0	H9058-ND	3.92	3.24	2.43	TM2REA-0606
20	2 x 6-2	PC Mount	28.2	15.4	16.0	H9051-ND	3.77	3.12	2.34	TM2REA-1204
	2 x 6-4		28.2	15.4	16.0	H9052-ND	4.93	4.08	3.06	TM2REA-1208
	2 x 6-6		28.2	15.4	16.0	H9065-ND	5.86	4.85	3.64	TM2REA-1212

Fig.	Positions-Contacts	Descriptio n	Dimensions (mm)			Digi-Key Part No.	Price Each			Hirose Part No.
			W	H	D		1	10	100	
Receptacles — P.C. Board Mount with Tin Hold-Down Tabs; Color: Gray										
21	3 x 6-2	PC Mount	39.2	15.4	16.0	H9053-ND	4.99	4.13	3.10	TM2REA-1806
	3 x 6-4		39.2	15.4	16.0	H9054-ND	6.70	5.55	4.16	TM2REA-1812
	3 x 6-6		39.2	15.4	16.0	H9066-ND	8.05	7.00	5.60	TM2REA-1818
22	4 x 6-2	PC Mount	50.2	15.4	16.0	H9055-ND	5.92	4.90	3.68	TM2REA-2408
	4 x 6-4		50.2	15.4	16.0	H9056-ND	7.49	6.34	4.76	TM2REA-2416
	4 x 6-6		50.2	15.4	16.0	H9059-ND	8.42	7.32	5.86	TM2REA-2424
23	6-2	PC Top Entry	17.2	16.0	15.4	H9110-ND	2.60	2.16	1.60	TM2RE-0602
	6-4		17.2	16.0	15.4	H9111-ND	3.34	2.76	2.07	TM2RE-0604
	6-6		17.2	16.0	15.4	H9112-ND	3.92	3.24	2.43	TM2RE-0606
24	2 x 6-2	PC Top Entry	28.2	16.0	15.4	H9113-ND	3.77	3.12	2.34	TM2RE-1204
	2 x 6-4		28.2	16.0	15.4	H9114-ND	4.93	4.08	3.06	TM2RE-1208
	2 x 6-6		28.2	16.0	15.4	H9115-ND	5.86	4.85	3.64	TM2RE-1212
25	3 x 6-2	PC Top Entry	39.2	16.0	15.4	H9116-ND	4.99	4.13	3.10	TM2RE-1806
	3 x 6-4		39.2	16.0	15.4	H9117-ND	6.70	5.55	4.16	TM2RE-1812
	3 x 6-6		39.2	16.0	15.4	H9118-ND	7.51	6.36	4.77	TM2RE-1818
26	4 x 6-2	PC Top Entry	50.2	16.0	15.4	H9119-ND	5.92	4.90	3.68	TM2RE-2408
	4 x 6-4		50.2	16.0	15.4	H9120-ND	7.49	6.34	4.76	TM2RE-2416
	4 x 6-6		50.2	16.0	15.4	H9121-ND	10.60	9.22	7.38	TM2RE-2424
27	8 x 6-6	Side Entry 8 x 6-6	93.0	14.0	14.0	H9086-ND	12.08	11.18	9.37	TM5RJ1-4848
28	3 x 8-8	3 x 8-8	43.3	14.0	14.7	H9075-ND	7.16	5.93	4.45	TM5RSA-2424
28	—	3 x (1) 8-8, (2) 6-6	30	14	13.5	H9076-ND	8.89	7.53	5.65	TM5RQ-2020
29	—	2 x (1) 8-8, (1) 6-6	28	14	13.5	H9077-ND	6.71	5.68	4.26	TM5RQ-1414
30	2 x 6-2	with Power Plug	35	15	13.7	H9129-ND	3.05	2.52	1.89	TM5RT-1204PWJ
	2 x 6-2		35	15	13.7	H9130-ND	3.05	2.52	1.89	TM5RT1-1204PWJ
31	6-2	with Power Plug	24	15	13.7	H9132-ND	2.83	2.35	1.74	TM5RT1-62PWJ
	6-4		24	15	13.7	H9133-ND	3.13	2.60	1.95	TM5RT1-64PWJ
	6-6		24	15	13.7	H9134-ND	3.34	2.76	2.07	TM5RT1-66PWJ
32	4-4	Top Entry SMT	13	17	12.5	H9135-ND	2.63	2.19	1.62	TM15R-44(30)
	6-4		14	17	12.5	H9136-ND	3.06	2.54	1.88	TM15R-64(30)
33	8-8	Receptacle	14	11.7	17	H9138-ND	3.36	2.79	2.09	TM5RL-88
34	4 x 8-8		56	11.7	17	H9139-ND	10.24	8.90	7.12	TM5RL-3232
Receptacles — Right Angle, SMT										
35	6-2	Receptacle	13.6	11.3	13.5	H10131-ND	3.36	2.79	2.09	TM18R-62
	6-4		13.6	11.3	13.5	H10132-ND	3.51	2.91	2.18	TM18R-64
	8-8		15.6	11.3	14.5	H10133-ND	4.99	4.13	3.10	TM18R-88
36	6-2	Receptacle	13.6	11.3	14.2	H10134-ND	2.24	1.87	1.38	TM18RA-FT-62
	6-2		13.6	11.3	14.2	H10135-ND	2.60	2.16	1.60	TM18RA-IB-62
	6-2		13.6	11.3	13.5	H10136-ND	3.92	3.24	2.43	TM18R-DL-62
	6-2		15.6	12.3	14.5	H10137-ND	4.15	3.44	2.58	TM18R-TO-62
	8-8		15.6	12.3	14.5	H10138-ND	4.29	3.56	2.67	TM18R-TO-88
“TM” Modular Connectors										
34	4 x 8-8	with Light Pipes	59.2	15.3	25.9	H9005-ND	14.20	13.36	11.69	TM21R-5A-3232-LP
37	8-8	Wire Lead 12”	24	20	15	H9140-ND	7.05	5.97	4.48	TM11R-88-35S-300
38	8-8	Adapter Recept. to Receptacle	18.6	17	37.5	H9141-ND	11.14	10.31	8.64	TM5RL-88-JJ
39	8 x 8-8	with Light Pipes	59.2	28	32.5	H10139-ND	20.10	19.43	17.42	TM21R-5B-3232D-LP
Dust Covers for Modular Connectors										
40	6-6	Dust Cover	12	13	8.5	H9007-ND	.61	.50	.36	TM-6-DC
40	8-8	Dust Cover	15.6	13.9	6.5	H9006-ND	.91	.75	.54	TM-8-DC

* 50μ Gold Plating

Modular Jacks

Fig. 1

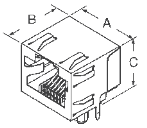

Housing: Black glass-filled high temperature nylon, UL 94V-0

Contact: Gold per FCC 68.5 Specification

Plating: 1.27 (50µ") minimum Gold in contact area and 1.27µm (50µ") Tin/Lead in tail area, both over nickel overall

Temperature: -40°C ~ 80°C

Fig. 2

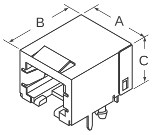

Housing: Black glass-filled nylon, UL 94V-0

Contact: Phosphor Bronze

Plating: Post plate 1.27 to 1.52µm (50 to 60µ") Gold in contact area, 1.90µm (75µ") minimum (90/10) Tin/Lead in tail area, both over nickel overall

Temperature: -40 ~ 80°C

Fig. 3

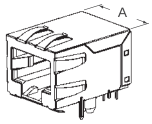

Housing: Black glass-filled nylon, UL 94V-0

Contact: Phosphor Bronze

Plating: Post plate 1.27 to 1.52µm (50 to 60µ") Gold in contact area, 1.90µm (75µ") min. (90/10) Tin/Lead in tail area, both over nickel overall

Temperature: -40°C ~ 80°C

Fig. 4

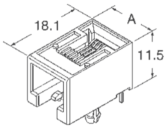

Housing: Black polyester, UL 94V-0

Contact: Phosphor Bronze

Plating: Post plate 1.27 to 1.52 µm (50 to 60µ") Gold in contact area, 1.90µm (75µ") minimum (90/10) Tin/Lead in tail area, both over nickel overall

Temperature: -40°C ~ 80°C

Fig. 5

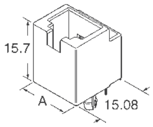

Housing: Gray polyester, UL 94V-0

Contact: Phosphor Bronze

Plating: Post plate 1.27 to 1.52µm (50 to 60µ") Gold in contact area, 1.90µm (75µ") min. (90/10) Tin/Lead in tail area, both over nickel overall **Note:** Panel cutout SMT are Black polyester, UL 94V-0

Temperature: -40°C ~ 80°C

Fig.	Circuits-Contacts	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Right Angle - Low Profile, Shielded with Lightpipes									
1	8-8	16.38	15.39	13.54	WM1637-ND	3.98	3.24	2.49	43860-0010-TR80
Right Angle - Low Profile, Inverted Unshielded									
1	6-4	15.75	15.39	13.21	WM5430-ND	1.58	1.29	.99	43860-0003
	6-6	15.75	15.39	13.21	WM5431-ND	1.86	1.52	1.17	43860-0002
	8-8	15.75	15.39	13.21	WM5432-ND	2.01	1.63	1.26	43860-0001
Right Angle - Low Profile, Inverted Shielded with All Panel Grounding Tabs									
1	6-4	16.38	15.39	13.54	WM5433-ND	3.37	2.74	2.11	43860-0015
	6-6	16.38	15.39	13.54	WM5434-ND	3.44	2.80	2.15	43860-0014
	8-8	16.38	15.39	13.54	WM5435-ND	3.58	2.91	2.24	43860-0013
Right Angle - Low Profile, Inverted Shielded with Offset Panel Grounding Tabs									
1	6-4	16.38	15.39	13.54	WM5436-ND	3.37	2.74	2.11	43860-0006
	6-6	16.38	15.39	13.54	WM5437-ND	3.44	2.80	2.15	43860-0005
	8-8	16.38	15.39	13.54	WM5438-ND	3.58	2.91	2.24	43860-0004
Right Angle - Low Profile, Unshielded									
2	4-4	11.18	18.03	11.58	WM5439-ND	1.95	1.59	1.22	43202-4101
	6-2	13.21	18.03	11.58	WM5440-ND	1.76	1.44	1.11	43202-6107
	6-4	13.21	18.03	11.58	WM5441-ND	1.87	1.52	1.17	43202-6105
	6-6	13.21	18.03	11.58	WM5442-ND	2.08	1.70	1.31	43202-6101
	8-4	15.24	18.03	11.58	WM5443-ND	2.07	1.69	1.30	43202-8119
	8-6	15.24	18.03	11.58	WM5444-ND	2.17	1.77	1.36	43202-8116
	8-8	15.24	18.03	11.58	WM5445-ND	2.21	1.80	1.39	43202-8104
	8-10	15.24	18.03	11.58	WM5446-ND	2.26	1.84	1.42	43202-8101
Right Angle - Low Profile									
3	8-8	16.38	—	—	WM1635-ND*	3.44	2.80	2.15	43202-8816-TR80
	8-8	16.38	—	—	WM1636-ND**	3.44	2.80	2.15	43202-8817-TR80

Fig.	Circuits-Contacts	Key	Dim. (mm) A	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
Right Angle - Low Profile								
4	4-4	no	11.18	WM5410-ND	1.50	1.22	.94	95001-2441
	6-4	no	13.21	WM5411-ND	1.66	1.35	1.04	95001-2641
	6-6	no	13.21	WM5412-ND	1.74	1.42	1.09	95001-2661
	8-8	no	15.24	WM5414-ND	1.83	1.49	1.15	95001-2881
	8-8	yes	15.24	WM5415-ND	2.76	2.25	1.73	95001-2882
Right Angle - Low Profile SMT								
4	4-4	no	11.18	WM5416-ND	2.61	2.13	1.64	95001-6441
	6-4	no	13.21	WM5417-ND	3.00	2.44	1.88	95001-6641
	6-6	no	13.21	WM5418-ND	3.24	2.63	2.03	95001-6661
	8-8	no	15.24	WM5419-ND	3.47	2.83	2.18	95001-6881
	8-8	yes	15.24	WM5420-ND	3.87	3.15	2.42	95001-6882
Vertical - Standard Profile with Small Panel Cutout								
5	4-4	no	11.18	WM5421-ND	1.50	1.22	.94	95003-2441
	6-4	no	13.21	WM5422-ND	1.66	1.35	1.04	95003-2641
	6-6	no	13.21	WM5423-ND	1.74	1.42	1.09	95003-2661
	8-8	no	15.24	WM5424-ND	1.97	1.61	1.24	95003-2881
	8-8	yes	15.24	WM5425-ND	2.56	2.08	1.60	95003-2882
Vertical - Standard Profile with Small Panel Cutout SMT								
5	4-4	no	11.18	WM5426-ND	1.97	1.61	1.24	95003-6441
	6-4	no	13.21	WM5427-ND	2.01	1.64	1.26	95003-6641
	6-6	no	13.21	WM5428-ND	2.13	1.74	1.34	95003-6661
	8-8	no	15.24	WM5429-ND	2.29	1.86	1.44	95003-6881-TB36

*No Top or Side Tabs **Top Tabs

Industrial Ethernet Plugs and Jacks, Category 5E

Specifications: • Contact: Phosphor Bronze (CuSn) • Plating Contact: 1.27µm (50µ") Gold (Au) • Under Plating: Nickel (Ni) • Housing Material: PA Polyamide (Nylon), PBT Polyester, TPE Thermo Plastic Elastomer • Color: Black • Flammability: UL 94V-0 • Durability (mating cycles): 500 cycles minimum • Current: 1.5A maximum • Voltage: 125V maximum • Withstanding Voltage: 1000VAC • Contact Resistance: 20mΩ maximum • Insulation Resistance: 500MΩ minimum

Fig.	Circuits-Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	8-8	Receptacle, Panel Mount	WM17486-ND	28.01	25.21	22.41	84702-0006-P
	8-8	Receptacle, Panel Mount, Fully Potted	WM17487-ND	24.25	21.83	19.41	84702-0008-P
	8-8	Receptacle, Panel Mount, PCB	WM17491-ND	8.03	7.23	6.43	84702-0005
2	8-8	Receptacle, Bulkhead	WM17488-ND	38.38	34.55	30.71	84700-0001-P
3	8-8	Plug	WM17489-ND	25.61	23.06	20.50	84700-0002-P
4	—	Dust Cover for Ethernet Receptacle	WM17490-ND	13.84	12.46	11.07	84700-0003-P
Crimp Tool for Ethernet 8-8			WM17485-ND	35.16	—	—	64016-0045

Fig. 1

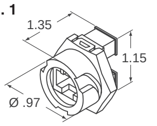

Fig. 2

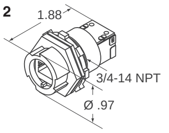

Fig. 3

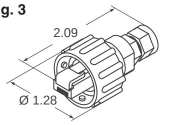

Fig. 4

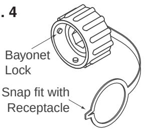

RJ45 Modular Jacks with LEDs

Specifications: • Insulator Housing: Black Plastic PBT/Nylon, UL 94V-0 • Contact Material: Phosphor Bronze • Contact Plating: Gold Flash or Gold Plate over Nickel • Contact Resistance: 20mΩ maximum • Insulation Resistance: 500MΩ minimum • Current Rating: 1.5A maximum • Voltage Rating: 120VAC maximum • Shield Housing: Tin plated copper alloy • LED Voltage: 2.1V typical @ 20mA • Reverse Voltage @ < 100mA : 5.0V • DC Forward Current: 30mA

Fig.	Circuits-Contacts	LED Color Left / Right	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
1	8-8	—	15.75	16.51	13.46	151-1060-ND	3.01	2.67	2.14	A20-108-660-010
	8-8	Yellow/Green	15.75	16.51	13.46	151-1061-ND	3.26	2.89	2.31	A20-108-661-310
	8-8	Red/Green	15.75	16.51	13.46	151-1062-ND	3.10	2.75	2.20	A20-108-662-310
	8-8	Green/Green	15.75	16.51	13.46	151-1063-ND	3.90	3.47	2.77	A20-108-663-310
	8-8	Red/Green-Red/Green	15.75	16.51	13.46	151-1064-ND	3.23	2.87	2.30	A20-108-665-510
2	2 x 8-8	—	15.75	32.26	13.46	151-1065-ND	4.26	3.78	3.03	A20-216-660-010
	2 x 8-8	Yellow/Green	15.75	32.26	13.46	151-1066-ND	5.13	4.55	3.64	A20-216-661-310
	2 x 8-8	Green/Green	15.75	32.26	13.46	151-1067-ND	4.79	4.26	3.41	A20-216-663-310
2	4 x 8-8	Green/Green	15.75	63.75	13.46	151-1068-ND	8.10	7.19	5.75	A20-432-663-310
	4 x 8-8	Yellow/Green	15.75	63.75	13.46	151-1069-ND	8.10	7.19	5.75	A20-432-661-310

Fig. 1

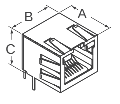

Fig. 2

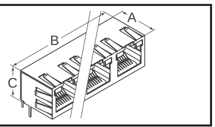

RJ45 Modular Jacks

Specifications:

• Operating Range: -40°C ~ 80°C • FCC Compliance: Part 68 SubPart F • Insulator Housing: Black Plastic PBT/ Nylon, UL 94V-0 • Contact Material: Phosphor Bronze • Contact Plating: Gold Flash or Gold Plate over nickel • Contact Resistance: 30mΩ max. • Insulation Resistance: 500MΩ min. • Current Rating: 1.5A max. • Voltage Rating: 120VAC max. • Withstand Voltage: 500VAC 1 minute max. • Shield Housing: Tin plated copper alloy

Fig. 1 – Vertical

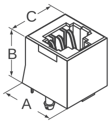

Fig. 2 – Right Angle

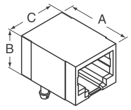

Fig.	Circuits-Contacts	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	EDAC Part No.
1	8-8	15.90	16.38	15.36	151-1070-ND	1.21	1.08	.86	A00-108-620-450
1	8-8	16.70	16.20	16.00	151-1071-ND	2.23	1.98	1.59	A00-108-622-450
2	8-8	20.57	13.30	15.24	151-1072-ND	1.43	1.27	1.02	A00-108-660-450
2	8-8	21.20	13.60	15.88	151-1073-ND	1.83	1.63	1.30	A00-108-662-450
2	8-8	20.57	13.60	30.48	151-1074-ND	2.17	1.93	1.54	A00-216-660-450
	8-8	21.27	13.80	31.12	151-1075-ND	2.67	2.37	1.90	A00-216-662-450
	8-8	28.50	25.14	17.28	151-1076-ND	3.94	3.50	2.80	A00-216-672-450
2	8-8	20.65	12.83	58.55	151-1077-ND	4.06	3.61	2.89	A00-432-660-450
	8-8	21.30*	13.60	59.10*	151-1078-ND	4.84	4.29	3.44	A00-432-662-450

* Dimension is ±0.25 mm

Modular Connectors

Fig. 1 — TX MagJack®

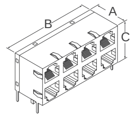

Fig. 2 — Series SI, 64, 70, 71

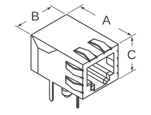

Fig. 3 — Series SI

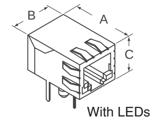

Fig. 4 — Series 30, 36, 37, 39

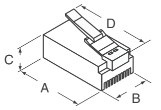

Fig. 5 — Series 65, 71

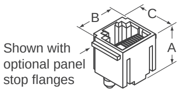

Fig. 6 — Series 66, 71

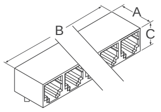

Fig. 7 — Series 68

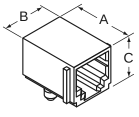

Fig. 8 — Series 71, SI

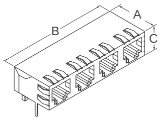

Fig. 9 — Series 73, SI

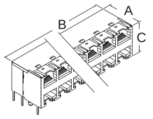

Fig. 10 — Series 80

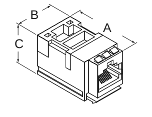

Fig. 11 — Series SI

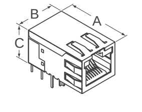

Fig. 12 — Series SI

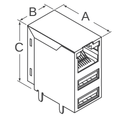

Crimp Tools and Die Sets

CRIMP TOOL

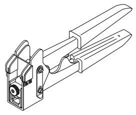

Description	Digi-Key Part No.	Price Each	Stewart Part No.
Crimp Tool with Die Set			
4 Position	380-1055-ND	93.00	2990001-01
6 Position	380-1056-ND	93.00	2990002-01
8 Position	380-1057-ND	93.00	2990003-01
10 Position	380-1058-ND	93.00	2990007-01
Die Set Modular			
4 Position	380-1059-ND	18.00	2990004-01
6 Position	380-1060-ND	28.50	2990005-01
8 Position	380-1061-ND	28.50	2990006-01
10 Position	380-1062-ND	28.50	2990008-01

10/100 Base-TX MagJacks: Multi-port shielded RJ-45 connector with integrated 10/100 magnetics. Highly integrated design conserves valuable board space. Design supports AutoMDIX applications. 50 micro-inch hard gold-plated contacts. UL 94V-0. Operating Temperature 0°C ~ 70°C.

SI Series: MagJack Modular Jacks with Integrated Magnetics. The SI Series MagJack connectors offers filtering capabilities for your high-speed network and telecom applications. By integrating the magnetics into the jack body, MagJack high-speed connectors improve your signal while saving you board space.

Note: Pin without electrical connections are omitted.

30 Series: Unshielded modular plugs offer superior performance for voice, data, and high-speed networking applications.

36 Series: Shielded modular plugs provide a highly reliable connection to jacks for high-speed networking applications. Superior shielding characteristics make the 36 Series plugs ideal for environments that require protection from EMI.

Series 37: Category 5 modular plugs are designed to provide exceptional performance in high-speed communication applications. All 37 Series plugs use electropolished, 50-microinch gold-plated contacts for the most reliable, long-lasting performance.

Series 39: The high performance modular plug for cutting edge premises wiring applications.

Series 64, 65, & 70: The 64 and 70 Series jacks provide versatile and reliable right-angle solutions for your networking applications.

Series 66: Our extensive line of single-row harmonica jacks offers shielded and unshielded solutions for twisted-pair networking environments. The contacts are fully enclosed for maximum efficiency and long life.

Series 68: SOF-LOK™ posts use metal tabs to lock the jack tightly to the board with min. impact. The pogo-action contacts provide uniform pressure to the solder pads and absorb the shock of repeated mating cycles for max. durability.

Series 71: Our high-performance modular jacks are designed for fast installation into high-speed applications. The industry-standard, eight-position design is an easy drop-in replacement for Category 3 jacks.

Series 73: Enhanced shielding provides optimum protection against EMI and our unique panel tabs provide high normal force for superior shielding effectiveness. The longer springs allow repeated insertions/withdrawals from a panel, and prevent "fish hooking" on the panel if overinserted. High-Performance StackJack connectors are designed for demanding Category 5 applications.

Series 80: The rugged design of our cable-ready jacks is ideal for telco, data, mobile, and coupling applications. Available with built-in strain relief.

Series	Fig.	Description	Positions Contacts	Dimensions - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	Stewart Part No.
		MagJack ICMs (Integrated Connector Modules)									
TX	1	MagJack RJ-45 with EMI Shielding, 8 Port, 10/100BT	8-8	1.130 (28.70)	2.330 (59.18)	1.004 (25.50)	—	380-1088-ND	17.28	14.35	0811-2X4R-28
		MagJack RJ-45 with EMI Shielding, 12 Port, 10/100BT	8-8	1.130 (28.70)	3.430 (87.12)	1.004 (25.50)	—	380-1089-ND	25.90	21.50	0811-2X6R-28
		MagJack RJ-45 with EMI Shielding, 16 Port, 10/100BT	8-8	1.130 (28.70)	4.530 (115.06)	1.004 (25.50)	—	380-1090-ND	56.36	46.78	0811-2X8R-28
SI	2	MagJack RJ45 with EMI Shielding	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1077-ND*	4.10	3.84	SI-10021
		MagJack RJ45 with EMI Shielding, Common Mode Choke	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1011-ND*	6.46	6.06	SI-20140
	3	MagJack RJ45 w/EMI Shielding, Yellow LED on Left, Green on Right	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1012-ND*	4.42	4.14	SI-40138
		MagJack RJ45 w/EMI Shielding, Green/Yellow Bi-Color LED on Both Sides	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1013-ND*	4.42	4.14	SI-40141
	8	MagJack with EMI Shielding, 2 Port, 10/100BT, Green LED	8-8	.828 (21.03)	1.220 (30.99)	.545 (13.84)	—	380-1083-ND*	8.83	8.28	SI-40131
		MagJack with EMI Shielding, 4 Port, 10/100BT	8-8	.865 (21.97)	2.354 (59.79)	.545 (13.84)	—	380-1079-ND*	15.58	14.61	SI-10022
		MagJack with EMI Shielding, 4 Port, 10/100BT, Green LED	8-8	.865 (21.97)	2.354 (59.79)	.545 (13.84)	—	380-1084-ND*	16.74	15.69	SI-40144
	9	MagJack with EMI Shielding, 8 Port, 10/100BT	8-8	1.103 (28.02)	2.329 (59.16)	1.004 (25.50)	—	380-1080-ND*	21.82	18.12	SI-30005
		MagJack with EMI Shielding, 12 Port, 10/100BT	8-8	1.103 (28.02)	3.429 (87.10)	1.004 (25.50)	—	380-1081-ND*	32.72	27.16	SI-30006
		MagJack with EMI Shielding, 16 Port, 10/100BT	8-8	1.103 (28.02)	4.529 (115.04)	1.004 (25.50)	—	380-1082-ND*	43.64	36.23	SI-30019
	11	MagJack with EMI Shielding, 1 Port, 10/100BT, Green LED	8-8	1.000 (25.40)	.635 (16.13)	.550 (13.97)	—	380-1086-ND*	4.35	4.08	SI-50170
		MagJack with EMI Shielding, 1 Port, 10/100/1000BT, Green LED	8-8	1.300 (33.02)	.661 (16.79)	.536 (13.61)	—	380-1085-ND*	12.67	11.88	SI-50080
	12	MagJack Dual USB with EMI Shielding, Green and Yellow LED	—	1.090 (27.69)	.751 (19.07)	1.237 (31.42)	—	380-1091-ND*	4.93	4.62	C893-1AX1-EI
		Modular Connectors									
30	4	Plug, Unshielded, Stranded/Solid	6-2	.525 (13.33)	.380 (9.65)	.260 (6.60)	.534 (13.57)	380-1001-ND	.19	.18	940-SP-3026
		Plug, Handset, Unshielded, Stranded/Solid	4-4	.525 (13.33)	.300 (7.62)	.260 (6.60)	.485 (12.32)	380-1002-ND	.22	.21	940-SP-3044
		Plug, Unshielded, Stranded/Solid	6-4	.525 (13.33)	.380 (9.65)	.260 (6.60)	.534 (13.57)	380-1003-ND	.22	.21	940-SP-3046
		Plug, Unshielded, Stranded/Solid	6-6	.525 (13.33)	.260 (6.60)	.260 (6.60)	.534 (13.57)	380-1004-ND	.26	.24	940-SP-3066
	4	Plug, Unshielded, Stranded/Solid	10-10	.885 (22.48)	.460 (11.68)	312 (7.92)	.622 (15.80)	380-1000-ND	.58	.54	940-SP-301010R
		Plug, Unshielded, Stranded/Solid, .038" (.965mm) OD Cable	8-8	.885 (22.48)	.460 (11.68)	312 (7.92)	.622 (15.80)	380-1005-ND	.38	.36	940-SP-3088R
		Plug, Unshielded, Stranded/Solid, .040" (1.02mm) OD Cable	8-8	.885 (22.48)	.460 (11.68)	312 (7.92)	.622 (15.80)	380-1006-ND	.42	.39	940-SP-3088R-A133
36	4	Plug, Shielded, Stranded/Solid	8-8	1.046 (26.57)	.460 (11.68)	.360 (9.14)	—	380-1007-ND	1.09	1.02	940-SP-360808-A108
37	4	Plug, CAT-5	8-8	.884 (22.46)	.460 (11.68)	312 (7.92)	.622 (15.80)	380-1008-ND	.48	.45	943-SP-370808M2-A264
		Plug, CAT-5, Shielded	8-8	.884 (22.46)	.460 (11.68)	.360 (9.14)	—	380-1009-ND	1.34	1.26	943-SP-370808SM2A264
39	4	Plug, CAT-6	8-8	.884 (22.46)	.460 (11.68)	312 (7.92)	.622 (15.80)	380-1014-ND	2.08	1.95	SS-39100-002
64	2	Jack, Unshielded without Stops	10-10	.815 (20.70)	.605 (15.36)	.505 (12.83)	—	380-1015-ND	1.06	.99	SS-641010-NF
		Jack, 1pc Shield without Stops	10-10	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1016-ND	1.76	1.65	SS-641010S-A-NF
		Jack, Unshielded without Stops	4-4	.815 (20.70)	.445 (11.30)	.505 (12.83)	—	380-1017-ND	.77	.72	SS-6444-NF
		Jack, Unshielded without Stops	6-4	.815 (20.70)	.530 (13.46)	.505 (12.83)	—	380-1018-ND	.93	.87	SS-6446-NF
		Jack, Unshielded without Stops	6-6	.815 (20.70)	.530 (13.46)	.505 (12.83)	—	380-1019-ND	.93	.87	SS-6466-NF
		Jack, Shielded without Stops	6-6	.850 (21.59)	.545 (13.84)	.545 (13.84)	—	380-1020-ND	1.63	1.53	SS-6466S-A-PG4-BA-50
		Jack, Unshielded with Stops	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	—	380-1021-ND	.86	.81	SS-6488-FLS
		Jack, Unshielded without Stops	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	—	380-1022-ND	.86	.81	SS-6488-NF
		Jack, 1pc Shield with Stops	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1023-ND	1.57	1.47	SS-6488S-A-FLS
		Jack, 1pc Shield without Stops	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1024-ND	1.86	1.74	SS-6488S-A-NF
		Jack, 1pc Shield without Stops, Standard Shield Ground Tail	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1025-ND	1.86	1.74	SS-6488S-A-PG4-BA
65	5	Jack, Unshielded without Stops	10-8	.650 (16.51)	.615 (15.62)	.627 (15.93)	—	380-1026-ND	.86	.81	SS-650810-A-NF
		Jack, 1pc Shield with Stops	10-8	.670 (17.02)	.640 (16.26)	.670 (17.02)	—	380-1027-ND	2.27	2.13	SS-650810S-A-FLS
		Jack, 1pc Shield without Stops	10-8	.670 (17.02)	.640 (16.26)	.670 (17.02)	—	380-1028-ND	2.27	2.13	SS-650810S-A-NF
		Jack, Unshielded without Stops	10-10	.650 (16.51)	.615 (15.62)	.627 (15.93)	—	380-1029-ND	1.70	1.59	SS-651010-A-NF
		Jack, Unshielded without Stops	4-4	.650 (16.51)	.455 (11.56)	.650 (16.51)	—	380-1030-ND	1.76	1.65	SS-6544-NF
66	6	Jac k, Unshielded, 2 Port without Stops	6-6	.815 (20.70)	.848 (21.54)	.503 (12.78)	—	380-1031-ND	3.71	3.48	SS-666602-NF
		Jack, Unshielded, 4 Port without Stops	6-6	.815 (20.70)	1.744 (44.30)	.503 (12.78)	—	380-1032-ND	4.93	4.62	SS-666604-NF
		Jack, Shielded, 4 Port without Stops	8-8	.865 (21.97)	2.100 (53.34)	.545 (13.84)	—	380-1035-ND	6.50	6.09	SS-668804S-A-PG4-AC
		Jack, Unshielded, 6 Port without Stops	6-6	.815 (20.70)	2.640 (67.06)	.503 (12.78)	—	380-1033-ND	11.17	10.47	SS-666606-NF
		Jack, Unshielded, 4 Port without Stops	8-8	.815 (20.70)	4.300 (109.22)	.523 (13.28)	—	380-1034-ND	3.20	3.00	SS-668804-NF
		Jack, Shielded, 8 Port without Stops	8-8	.865 (21.97)	4.300 (109.22)	.545 (13.84)	—	380-1036-ND	11.23	10.53	SS-668808S-A-PG4-AC
68	7	Jack, Unshielded, with Stops	6-6	.725 (18.42)	.526 (13.34)	.505 (12.83)	—	380-1037-ND	2.88	2.70	SS6866B-FLS-C40
70	2	Jack, Unshielded without Stops	10-8	.712 (18.08)	.600 (15.24)	.453 (11.51)	—	380-1038-ND	1.09	1.02	SS-700810-NF
		Jack, 1pc Shield without Stops, Alternate Style Shield Ground Tail	10-8	.738 (18.74)	.626 (15.90)	.475 (12.06)	—	380-1039-ND	2.43	2.28	SS-700810S-A-PG4-1-BA
		Jack, 1pc Shield without Stops	10-8	.738 (18.74)	.626 (15.90)	.475 (12.06)	—	380-1040-ND	2.43	2.28	SS-700810S-A-PG4-BA
		Jack, Unshielded without Stops	6-2	.712 (18.08)	.525 (13.33)	.453 (11.51)	—	380-1041-ND	1.47	1.38	SS-7026-NF
		Jack, Unshielded without Stops	6-4	.712 (18.08)	.525 (13.33)	.453 (11.51)	—	380-1042-ND	1.54	1.44	SS-7046-NF
		Jack, Unshielded without Stops	6-6	.712 (18.08)	.525 (13.33)	.453 (11.51)	—	380-1043-ND	1.63	1.53	SS-7066-NF
71	2	Jack, Unshielded without Stops	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	—	380-1046-ND	1.02	.96	SS-7188-NF
		Jack, 1pc Shield without Stops, Without Panel Stop Flanges	8-8	.815 (20.70)	.605 (15.36)	.505 (12.82)	—	380-1047-ND	1.98	1.86	SS-7188S-A-NF
		Jack, 1pc Shield without Stops, Alternate Style Shield Ground Tail	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1048-ND	1.98	1.86	SS-7188S-A-PG4-1-BA
		Jack, 1pc Shield without Stops, Standard Shield Ground Tail	8-8	.850 (21.59)	.635 (16.13)	.550 (13.97)	—	380-1049-ND	1.98	1.86	SS-7188S-A-PG4-BA
	5	Jack, Unshielded without Stops	8-8	.650 (16.51)	.615 (15.62)	.644 (16.36)	—	380-1050-ND	.93	.87	SS-7188V-A-NF
		Jack, Standard Shield without Stops	8-8	.670 (17.02)	.640 (16.26)	.670 (17.02)	—	380-1051-ND	2.62	2.46	SS-7188VS-A-NF
	6	Jack, 1pc Shield, 2 Port without Stops	8-8	.815 (20.70)	1.205 (30.61)	.523 (13.28)	—	380-1044-ND	7.97	7.47	SS-718802S-A-NF
	8	Jack, 1pc Shield, 4 Port	8-8	.815 (20.70)	2.305 (58.55)	.523 (13.28)	—	380-1045-ND	9.44	8.85	SS-718804S-A-PG4-AC
73	9	Jack, Shielded, 12 Port without Stops	8-8	1.103 (28.02)	3.429 (87.10)	1.004 (25.50)	—	380-1052-ND	16.80	15.75	SS-73100-046
		Jack, Shielded, 16 Port without Stops	8-8	1.103 (28.02)	4.529 (115.04)	1.004 (25.50)	—	380-1053-ND	24.00	22.50	SS-73100-047
80	10	Jack, Unshielded, Cable Ready	10-8	1.300 (33.02)	.750 (19.05)	.780 (19.81)	—	380-1078-ND	6.24	5.85	SS-800810SB-SP50-040-250

*** *Note:* Pins without electrical connections are omitted.**

Corcom Filtered Modular Jacks

Jack design and component selection compatible with equipment registered under FCC Part 68. UL Recognized. CSA Certified. U.S. Patent No. 4,695,115 and U.S. Patent No. 4,772,224 and a variety of international patents. **RJ11 / RJ45 SERIES, Shielded:** The metal shield provides additional protection, and is available with RFI gasket style spring fingers to provide a low impedance ground path across the interface.

Fig. 1

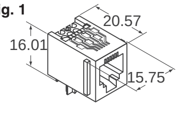

Fig. 2

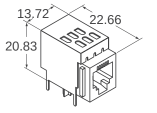

Fig. 3

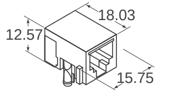

Fig. 4

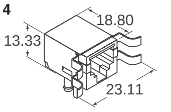

Fig. 5

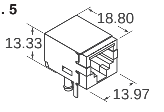

Fig. 6

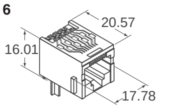

Fig. 7

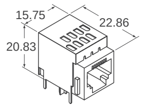

Fig. 8

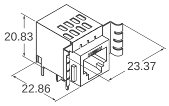

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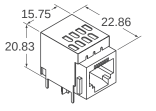

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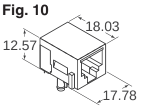

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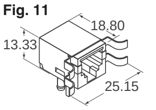

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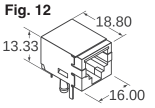

Fig. 13

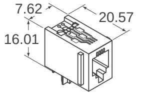

Fig.	Description	Con-tacts	Ferrites	Digi-Key Part No.	Price Each 1	25	100	Corcom Part No.
RJ11 Series								
1	Unshielded	6-2	Sleeves	CCM9000-ND	3.83	2.69	2.25	RJ11-2L-S
	Unshielded	6-4	Sleeves	CCM9001-ND	4.25	2.98	2.49	RJ11-4L-S
	Unshielded	6-6	Sleeves	CCM9002-ND	4.71	3.28	2.74	RJ11-6L-S
	Unshielded	6-2	Block	CCM9003-ND	4.05	2.84	2.36	RJ11-2L-B
	Unshielded	6-4	Block	CCM9004-ND	4.25	2.98	2.49	RJ11-4L-B
	Unshielded	6-6	Block	CCM9005-ND	4.45	3.14	2.60	RJ11-6L-B
2	Shielded	6-4	Sleeves*	CCM9010-ND	5.65	3.97	3.32	RJ11-4L2-S
	Shielded	6-6	Sleeves*	CCM9011-ND	6.10	4.25	3.56	RJ11-6L2-S
	Shielded	6-4	Block*	CCM9012-ND	5.65	3.97	3.32	RJ11-4L2-B
	Shielded	6-6	Block*	CCM9013-ND	5.89	4.11	3.43	RJ11-6L2-B
3	Unshielded	6-6	Block	CCM1394-ND	3.92	2.74	2.29	RJ11-6N-B
	Unshielded	6-6	Sleeves	CCM1395-ND	4.18	2.92	2.45	RJ11-6N-S
4	Shielded	6-6	Block	CCM1396-ND	4.61	3.22	2.69	RJ11-6N3-B
	Shielded	6-6	Sleeves	CCM1397-ND	4.82	3.37	2.83	RJ11-6N3-S
5	Shielded	6-6	Block	CCM1398-ND	4.61	3.22	2.69	RJ11-6N4-B
	Shielded	6-6	Sleeves	CCM1399-ND	4.82	3.37	2.83	RJ11-6N4-S
RJ45 Series								
6	Unshielded	8-8	Sleeves	CCM9050-ND	5.45	3.81	3.19	RJ45-8L-S
	Unshielded	8-8	Block	CCM9052-ND	4.95	3.46	2.89	RJ45-8L-B
7	Shielded	8-8	Sleeves*	CCM9051-ND	7.15	5.01	4.20	RJ45-8L2-S
	Shielded	8-8	Block*	CCM9053-ND	6.69	4.68	3.91	RJ45-8L2-B
8	Shielded	8-8	Sleeves	CCM1390-ND	13.93	9.75	8.14	RJ45-8LCT1-S
	Shielded	8-8	Block	CCM1391-ND	13.47	9.42	7.87	RJ45-8LCT1-B
9	Shielded	8-8	Sleeves	CCM1392-ND	13.93	9.75	8.14	RJ45-8LCT2-S
	Shielded	8-8	Block	CCM1393-ND	13.47	9.42	7.87	RJ45-8LCT2-B
10	Unshielded	8-8	Block	CCM1500-ND	3.92	2.74	2.29	RJ45-8N-B
	Unshielded	8-8	Sleeves	CCM1501-ND	4.45	3.14	2.60	RJ45-8N-S
11	Shielded	8-8	Block	CCM1502-ND	4.61	3.22	2.69	RJ45-8N3-B
	Shielded	8-8	Sleeves	CCM1503-ND	5.30	3.68	3.07	RJ45-8N3-S
12	Shielded	8-8	Block	CCM1504-ND	4.61	3.22	2.69	RJ45-8N4-B
	Shielded	8-8	Sleeves	CCM1505-ND	5.30	3.68	3.07	RJ45-8N4-S
RJH Series								
13	Filtered	4-4	Block	CCM9060-ND	4.35	3.04	2.54	RJH-4L-B

* Board Ground (pins only). ***Note: LCT Version incorporates 82Pf capacitors.***

CUI INC Modular Components

Fig. 1

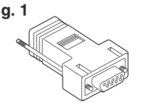

Fig. 2

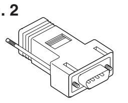

Fig. 3

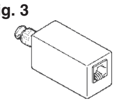

Fig. 4

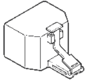

Fig. 5

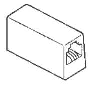

Fig. 6

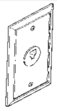

Fig. 7

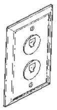

Fig.	Description	Digi-Key Part No.	Pricing 1	10	50
2	DB9P to RJ45 Jack (8-8)	046-0000-ND*	4.13	37.13	165.00
1	DB9S to RJ45 Jack (8-8)	046-0001-ND*	4.13	37.13	165.00
2	DB9P to RJ12 Jack (6-6)	046-0002-ND*	4.13	37.13	165.00
1	DB9S to RJ12 Jack (6-6)	046-0003-ND*	4.13	37.13	165.00
2	DB15P to RJ45 (8-8)	046-0004-ND*	4.63	41.63	185.00
1	DB15S to RJ45 (8-8)	046-0005-ND*	4.63	41.63	185.00
2	DB25P to RJ12 (6-6)	046-0008-ND*	4.38	39.38	175.00
1	DB25S to RJ12 (6-6)	046-0009-ND*	4.38	39.38	175.00
2	DB25P to RJ45 (8-8)	046-0010-ND*	4.38	39.38	175.00
1	DB25S to RJ45 (8-8)	046-0011-ND*	4.38	39.38	175.00
2	DB15P to RJ12 (6-6)	046-0016-ND*	4.63	41.63	185.00
1	DB15S to RJ12 (6-6)	046-0017-ND*	4.63	41.63	185.00
3	BNC RJ12 Converter (6-6)	048-0000-ND	16.58	149.18	663.00
4	4 Wire TEE Adapter 1M-2F	048-0050-ND	2.75	24.75	110.00
4	6 Wire TEE Adapter 1M-2F	048-0051-ND	4.05	36.45	162.00
5	6-6 Modular Coupling (crossed) #1 to #6	048-0056-ND	2.28	20.48	91.00
	6-6 Modular Coupling (straight) #1 to #1	048-0103-ND	2.28	20.48	91.00
6	4 Wire Wall Plate (6-4)	048-0059-ND	1.73	15.53	69.00
7	6 Wire Dual Wall Plate (6-6)	048-0060-ND	2.53	22.73	101.00
6	6 Wire Wall Plate (6-6)	048-0061-ND	2.70	24.30	108.00
6	8 Wire Wall Plate (8-8)	048-0062-ND	3.35	30.15	134.00

* User Configurable

Stewart Connector

CAT5e and CAT6 Jumpers

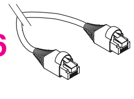

Available Through Digi-Key®

Enhanced CAT-5 Cords: Enhanced patch cords built using high performance Stewart 37 Series plugs optimized for consistent, reliable performance in high speed networking applications. **CAT-6 Cords:** Patch cords built using high performance Stewart 39 Series plugs which are designed and manufactured to meet or exceed the current EIA/TIA CAT-6 specs.

Description Ft. (Meter)	Digi-Key Part No.	Price Each
Cat-5 — Enhanced		
3' (.914)	380-1064-ND	8.22
5' (1.524)	380-1066-ND	8.98
7' (2.134)	380-1068-ND	9.77
10' (3.048)	380-1070-ND	10.92
15' (4.572)	380-1072-ND	12.84
20' (6.096)	380-1074-ND	15.35
25' (7.62)	380-1076-ND	17.99
Cat-6		
3' (.914)	380-1063-ND	12.51
5' (1.524)	380-1065-ND	13.66
7' (2.134)	380-1067-ND	14.85
10' (3.048)	380-1069-ND	16.63
15' (4.572)	380-1071-ND	19.97
20' (6.096)	380-1073-ND	23.66
25' (7.62)	380-1075-ND	27.56

NEW! FCI Modular Jacks

Fig. 1

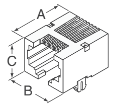

Fig. 2

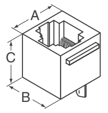

Fig. 3

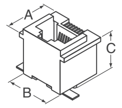

Fig. 4

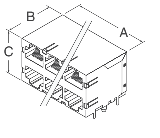

Fig.	Positions-Contacts	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Horizontal Jack — P.C. Board Mount									
1	4-4	0.480 (12.20)	0.485 (12.32)	0.825 (20.95)	609-1048-ND	1.10	.61	.51	66010-001LF
	4-4	0.810 (20.57)	0.540 (13.72)	0.590 (14.99)	609-1050-ND	.73	.32	.28	68897-001LF
	4-4	0.709 (18.00)	0.441 (11.20)	0.453 (11.50)	609-1054-ND	1.30	.70	.60	87180-044LF
	6-2	0.709 (18.00)	0.520 (13.20)	0.453 (11.50)	609-1055-ND	.63	.28	.23	87180-062LF
	6-2	0.728 (18.50)	0.539 (13.70)	0.465 (11.80)	609-1068-ND*	1.35	.75	.64	61885-0621LF
	6-4	0.709 (18.00)	0.520 (13.20)	0.453 (11.50)	609-1056-ND	1.30	.70	.60	87180-064LF
	6-4	0.811 (20.60)	0.619 (15.72)	0.591 (15.00)	609-1060-ND	.74	.33	.28	88400-064LF
	6-6	0.480 (12.20)	0.485 (12.32)	0.825 (20.95)	609-1049-ND	.96	.49	.40	66011-002LF
	6-6	0.709 (18.00)	0.520 (13.20)	0.453 (11.50)	609-1057-ND	1.38	.77	.66	87180-066LF
	6-6	0.811 (20.60)	0.619 (15.72)	0.591 (15.00)	609-1061-ND	1.38	.77	.66	88400-066LF
	8-8	0.698 (17.74)	0.602 (15.30)	0.500 (12.70)	609-1046-ND	.74	.36	.31	54602-908LF
	8-8	0.709 (18.00)	0.600 (15.24)	0.453 (11.50)	609-1058-ND	1.48	.83	.72	87180-088LF
	8-8	0.723 (18.36)	0.614 (15.60)	0.460 (11.68)	609-1069-ND*	4.16	2.59	2.35	72231-0881LF
	10-10	0.698 (17.74)	0.602 (15.30)	0.500 (12.70)	609-1047-ND	.81	.40	.34	54602-910LF
Vertical Jack — P.C. Board Mount									
2	4-4	0.625 (15.87)	0.540 (13.72)	0.615 (15.62)	609-1051-ND	1.30	.70	.60	69253-001LF
	4-4	0.625 (15.87)	0.540 (13.72)	0.615 (15.62)	609-1062-ND	1.30	.70	.60	90511-001LF
	4-4	0.615 (15.87)	0.540 (13.72)	0.615 (15.62)	609-1067-ND	.64	.32	.26	61835-0441LF
	6-4	0.625 (15.87)	0.620 (15.75)	0.615 (15.62)	609-1064-ND	.85	.39	.34	90512-003LF
	6-6	0.625 (15.87)	0.620 (15.75)	0.615 (15.62)	609-1052-ND	1.38	.77	.66	69254-001LF
	6-6	0.625 (15.87)	0.620 (15.75)	0.615 (15.62)	609-1063-ND	1.38	.77	.66	90512-001LF
	8-8	0.625 (15.87)	0.700 (17.78)	0.615 (15.62)	609-1053-ND	1.14	.61	.52	69255-001LF
	8-8	0.625 (15.87)	0.700 (17.78)	0.615 (15.62)	609-1065-ND	1.86	1.07	.92	90598-001LF
	8-8	0.665 (16.90)	0.626 (15.90)	0.620 (15.82)	609-1072-ND*	1.84	1.00	.85	94152-088LF
Vertical Jack — SMD									
3	4-4	0.594 (15.09)	0.570 (14.47)	0.641 (16.28)	609-1070-1-ND	1.08	.60	.51	87543-4111LF
	4-4	0.594 (15.09)	0.570 (14.47)	0.641 (16.28)	609-1070-2-ND†	567.63/1,400			87543-4111LF
	6-6	0.594 (15.09)	0.651 (16.53)	0.641 (16.28)	609-1071-1-ND	1.15	.64	.54	87545-4111LF
	6-6	0.594 (15.09)	0.651 (16.53)	0.641 (16.28)	609-1071-2-ND†	603.12/1,400			87545-4111LF
	8-8	0.594 (15.09)	0.731 (18.57)	0.641 (16.28)	609-1059-1-ND	1.90	1.09	.94	87547-4111LF
	8-8	0.594 (15.09)	0.731 (18.57)	0.641 (16.28)	609-1059-2-ND†	569.73/700			87547-4111LF
Horizontal Multiport Jack — P.C. Board Mount									
4	8-8	1.224 (31.10)	1.110 (28.20)	0.992 (25.20)	609-2069-ND	4.28	2.66	2.41	10021246-112LF
	8-8	2.327 (59.10)	1.110 (28.20)	0.992 (25.20)	609-2070-ND	8.97	6.36	5.61	10021246-114LF
	8-8	3.429 (87.10)	1.110 (28.20)	0.992 (25.20)	609-2071-ND	6.66	4.61	4.08	10021246-116LF
	8-8	4.531 (115.10)	1.110 (28.20)	0.992 (25.20)	609-2072-ND	10.39	7.06	6.50	10021246-118LF
	8-8	1.224 (31.10)	1.110 (28.20)	0.992 (25.20)	609-2073-ND	3.10	1.90	1.65	10021246-212LF
	8-8	2.327 (59.10)	1.110 (28.20)	0.992 (25.20)	609-2074-ND	4.28	2.66	2.41	10021246-214LF
	8-8	3.429 (87.10)	1.110 (28.20)	0.992 (25.20)	609-2075-ND	6.06	4.04	3.62	10021246-216LF
	8-8	4.531 (115.10)	1.110 (28.20)	0.992 (25.20)	609-2076-ND	7.25	5.03	4.44	10021246-218LF
Vertical Multiport Jack — P.C. Board Mount									
—	2 x 4-4, 6-6	—	—	—	609-1066-ND	3.25	1.93	1.71	FT658160LF

* Shielded † Tape and Reel Pricing

PULSEJACK™ LAN/ Filtered Connectors
Ethernet, PoE (Power over Ethernet), Gigabit, USB Options

Pulse offers a broad selection of filtered connectors. Each Pulsejack platform is designed to house a range of magnetic configurations and other internal components (common mode termination) with four 75ohm resistors and HV Cap, chip-side pin outs, shield options, USB ports and LED options. **Features:** • Meets or exceeds IEEE 802.3 and ANSI X3.263 • 1500 Vrms isolation • Self-contained termination saves PCB space • Patented InterLock Base construction for high reliability

Fig. 1

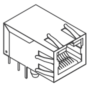

Fig. 2

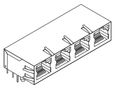

Fig. 3

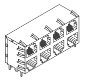

Fig. 4

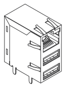

Figure Note: General representation of part, see specifications for exact number of ports.

Fig.	Number of Rows X Ports(7)	Tab Latch Up/Down(1)	Shield EMI Tabs(5)	Auto MDIX	LEDs L-R(6,8)	Other(4) Com-ponents	Comm.(15) Pins per Port (PCB Side)	Total(16) PCB Pins per Port	Configuration(2) TX	Configuration(2) RX	Turns Ratio(3) TX	Turns Ratio(3) RX	Package L x W x H (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Pulse Part No.
10/100BASE-TX																		
1	1X1	Down	Yes	Yes	G-G	CMT	7	12	T,C	T,C	1CT:1.414	1CT:1	21.59 x 16.26 x 13.84	553-1236-ND	5.94	4.07	3.24	J0018D21E
	1X1	Down	Yes	Yes	G-Y	CMT(12)	7	12	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1237-ND	4.00	2.60	1.99	J00-0065
	1X1	Down	Yes	Yes	G-Y	—(13)	8	12	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1238-ND	5.07	3.47	2.76	J0006D21B
	1X1	Down	Yes	Yes	—	CMT(13)	7	8	T,C	T,C	1CT:1	1CT:1	21.59 x 16.26 x 13.84	553-1239-ND	5.01	3.43	2.73	J0011D21
	1X1	Up	Yes	Yes	Y-G	CMT	7	12	T,C	T,C	1CT:1	1CT:1	25.4 x 16.26 x 13.51	553-1241-ND	5.88	4.03	3.21	J1012F21C
	1X1	Up	Yes	—	Y-G	CMT	8	12	T,C,S	C,T	1CT:1	1CT:1	25.4 x 16.26 x 13.51	553-1242-ND	6.78	4.64	3.70	J1026F21C
10/100BASE-TX Multiport																		
2	1X2	Down	Yes	Yes	G-Y	CMT	7	12	T,C	T,C	1CT:1	1CT:1	21.36 x 31.18 x 13.61	553-1244-ND	8.66	6.34	5.25	J8064D628A
	1X4	Down	Yes	Yes	G-Y	CMT	7	12	T,C	T,C	1CT:1	1CT:1	21.36 x 59.12 x 13.61	553-1245-ND	15.50	11.87	10.05	J8064D648A
	1X6	Down	Yes	Yes	G-Y	CMT	7	12	T,C	T,C	1CT:1	1CT:1	21.36 x 87.07 x 13.61	553-1246-ND	24.89	19.06	16.14	J8064D668A
	1X8	Down	Yes	Yes	G-Y	CMT	7	12	T,C	T,C	1CT:1	1CT:1	21.36 x 114.71 x 13.61	553-1247-ND	30.16	23.99	20.67	J8064D688A
10/100BASE-TX Dual Row Multiport																		
3	2X2	Both	Yes	Yes	G-Y	CMT	7	11	T,C	T,C	1CT:1	1CT:1	32.00 x 31.50 x 25.52	553-1248-ND	16.36	12.52	10.60	J20-0013
	2X4	Both	Yes	Yes	G-Y	CMT	7	11	T,C	T,C	1CT:1	1CT:1	32.00 x 59.44 x 25.52	553-1249-ND	29.73	23.65	20.38	J20-0014
	2X6	Both	Yes	Yes	—	CMT(13)	7	8	T,C	T,C	1CT:1	1CT:1	28.95 x 87.38 x 25.53	553-1250-ND	42.87	34.10	29.38	J2042H3B
	2X8	Both	Yes	Yes	G-Y	CMT	7	8	T,C	T,C	1CT:1	1CT:1	32.00 x 115.31 x 25.52	553-1251-ND	59.45	47.30	40.75	J20-0016
Power over Ethernet (PoE) 10/100Base-TX																		
1	1X1	Up	Yes	Yes	Y/G-G	CMT(9)	9	13	C,T	C,T	1CT:1	1CT:1	33.02 x 16.79 x 13.61	553-1252-ND	9.72	7.12	5.90	JK0-0020
	1X1	Up	Yes	Yes	Y/G-G	CMT(10)	9	13	C,T	C,T	1CT:1	1CT:1	33.02 x 16.79 x 13.61	553-1253-ND	7.83	5.36	4.27	JK0-0025
Power over Ethernet (PoE) 10/100Base-TX Multiport																		
2	1X2	Up	Yes	Yes	Y/G-G	CMT(10)	8	12	C,T	C,T	1CT:1	1CT:1	25.40 x 31.19 x 13.84	553-1254-ND	12.73	9.31	7.72	JG0-0031
	1X4	Up	Yes	Yes	Y/G-G	CMT(10)	8	12	C,T	C,T	1CT:1	1CT:1	25.41 x 59.13 x 13.60	553-1255-ND	22.77	17.43	14.76	JG0-0032
Gigabit (10/100/1000BASE-TX)																		
1	1X1	Up	Yes	Yes	G-G	Gigabit(11)	12	16	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1256-ND	7.83	5.36	4.27	JK0-0014
	1X1	Up	Yes	Yes	Y/G-G	Gigabit(11)	12	16	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1257-ND	7.83	5.36	4.27	JK0-0016
	1X1	Up	Yes	Yes	—	Gigabit(11)	12	12	Gigabit	Gigabit	1CT:1	1CT:1	33.02 x 16.79 x 13.87	553-1258-ND	7.53	5.16	4.10	JK0-0017
Gigabit (10/100/1000BASE-T) Multiport																		
2	1X4	Up	Yes	Yes	G-G(14)	Gigabit(11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 59.39 x 13.84	553-1260-ND	22.77	17.43	14.76	JG0-0025
	1X6	Up	Yes	Yes	G-G	Gigabit(12)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.41 x 87.33 x 13.84	553-1261-ND	31.04	24.70	21.28	JG0-0027
	1X8	Up	Yes	Yes	G-G	Gigabit(11)	10	14	Gigabit	Gigabit	1CT:1	1CT:1	25.40 x 115.27 x 13.84	553-1262-ND	41.39	32.93	28.37	JG0-0028
Gigabit (10/100/1000BASE-T) Dual Row Multiport																		
3	2X4	Both	Yes	Yes	—	Gigabit(11)	10	10	Gigabit	Gigabit	1CT:1	1CT:1	28.95 x 59.44 x 25.52	553-1306-ND	38.45	30.59	26.36	JC0-0131
	2X6	Both	Yes	Yes	—	Gigabit(11)	10	10	Gigabit	Gigabit	1CT:1	1CT:1	28.95 x 87.38 x 25.52	553-1307-ND	51.86	42.97	39.51	JC0-0132
	2X8	Both	Yes	Yes	—	Gigabit(11)	10	10	Gigabit	Gigabit	1CT:1	1CT:1	28.95 x 115.32 x 25.52	553-1308-ND	69.15	57.29	52.68	JC0-0133
Combo 10/100BASE-TX / Dual USB 2.0 Type A Female Ports																		
4	1X1 w/2USB	Up	—	—	G-Y(6 (R))	CMT	—	—	T,C,S	C,T	1CT:1	1CT:1	27.69 x 19.08 x 31.45	553-1266-ND	8.40	5.75	4.58	JW0-0009
	1X1 w/2USB	Up	Yes	—	G/O-Y	CMT	—	—	T,C,S	C,T	1CT:1	1CT:1	26.09 x 17.09 x 29.72	553-1267-ND	8.40	5.75	4.58	JY0-0016
	1X1 w/2USB	Up	—	Yes	G/Y-G	Gigabit	—	—	Gigabit	Gigabit	1CT:1	1CT:1	27.43 x 18.82 x 31.00	553-1268-ND	8.71	6.38	5.28	JW0-0006

KEY
(1) Tab Down = thumb lock facing down to PCB; Tab Up = thumb lock facing away from PCB
(2) Magnetics = Chip (PHY) to Cable (Media) side: T= Transformer, C = Common Mode Choke, S = Shunt Inductor
(3) Turns Ratio = Chip (PHY) to Cable (Media) side
(4) CMT (Common Mode Termination) with HV Cap within the connector; no extra PCB real estate required
(5) EMI Tabs = On the outside face of the shield for connecting to a front panel
(6) LEDs require external 5V source and 250Ω external resistors ("R") = 250Ω internal resistor built-in
(7) Note: For example, 1X4 = 1 row/4 columns or a 2X4 = 2 rows/4 columns
(8) LEDs: L-R = Left - Right : G = green, Y = yellow; "—" = none; Bicolor : G/O = Green/Orange, Y/G = Yellow/Green, G/Y = Green/Yellow
(9) Includes ESD overvoltage protection diodes
(10) Provides typically 2kV voltage isolation and are compliant to IEEE 802.3af PoE standard
(11) Includes Gigabit compatible magnetics
(12) Built-In BST Circuit = Capacitor resistor termination circuit
(13) Different electrical connection (See datasheet for more information)
(14) PoE = Power over Ethernet compatible product, compliant to IEEE 802.3af standard, providing minimum 1.5kV isolation
(15) Number of PCB connections required for RJ-45 connector communication to PHY/IC Chip
(16) Total number of PCB pins for PCB layout, which include LED option

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Excelsus DSL (CPE) Filters

These customer premises equipment (CPE) filters are designed to expedite the service delivery and improve the performance of digital subscriber line (DSL) and home phoneline network services over plain old telephone service (POTS). Its filter design electronically isolates the high-speed DSL and HPN data streams from the voice-band POTS to provide premium quality and optimal DSL and HPN data rates.

Z-230PJ Economical Single-Line DSL Filter

- Filters one or more phone devices sharing a single jack
- Compact in-line design - plugs into any standard phone jack
- Blocks and isolates DSL/HPN from phone equipment
- Supports G. lite, G.dmt ADSL, V.90, Caller ID and metallic-loop testing
- Compliant and listed with FCC, UL, CE, CSA and T1E1

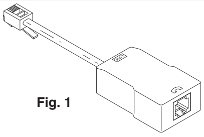

Fig. 1

Z-230TJ Economical Single-Line Phone/DSL Filter

- Provides separate jacks for phone and DSL/HPN
- Compact in-line design- plugs into any standard phone jack
- Filters one or more phone devices sharing a single jack
- Blocks and isolates DSL/HPN from phone equipment
- Supports G. lite, G.dmt, ADSL, V.90, Caller ID and metallic-loop testing
- Compliant and listed with FCC, UL, CE, CSA and T1E1

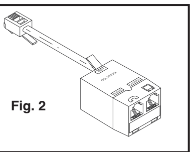

Fig. 2

Dual-Line DSL Filter

- Filters one or more phone devices sharing a single jack on line 1 and line 2
- Provides separate jacks for phone and DSL/HPN
- Blocks and isolates DSL/HPN from phone equipment
- Supports G. lite, G. dmt, ADSL, V.90, Caller ID and metallic-loop testing
- Compliant and listed with FCC, CS03, UL, CE and CSA
- Compact in-line design - plugs into any standard phone jack
- Wall-mount design-snaps over existing wall outlet

Fig. 3A

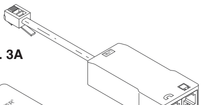

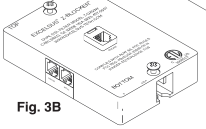

Fig. 3B

ANSI Single-Line DSL Filter

- Meets ANSI T1.421 for xcellent voice quality and performance
- Filters one or more phone devices sharing a single jack
- Blocks and isolates DSL/HPN from phone equipment
- Ideal for blocking RF interference from DSL/HPN for uninterrupted data streaming
- Compatible with ADSL, ADSL2, ADSL2+, ADSL2++, ADSLQ+ (analog mode) and VDSL
- Supports G. lite, G.dmt, ADSL, V.90, Caller ID and metallic-loop testing
- Compliant and listed with FCC, UL, CE, and CSA
- Compact in-line design-plugs into any standard phone jack
- Wall-mount design-snaps over existing wall outlet

Fig. 4A

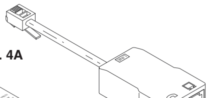

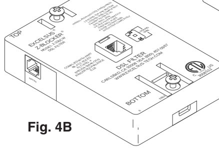

Fig. 4B

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Pulse Part No.
1	Single In-Line DSL Filter	553-1183-ND	2.82	1.67	1.50	Z-230PJ
2	Single In-Line Phone/DSL Filter	553-1184-ND	3.81	2.35	2.20	Z-230TJ
3A	Dual-Line In-Line Filter	553-1187-ND	4.20	2.59	2.43	Z-D250P2J
3B	Dual-Line Wall-Mount Filter	553-1188-ND	6.75	4.16	3.90	Z-D250W
4A	ANSI In-Line Single Filter	553-1185-ND	3.97	2.35	2.11	Z-330P2J
4B	ANSI Wall-Mount Single Filter	553-1186-ND	6.54	4.03	3.77	Z-330CW

HIROSE ELECTRIC CO.,LTD.

Fiber Optics

Adapters - Split Sleeve

Fig. 1

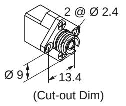

Fig. 2

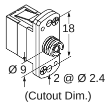

Fig. 3

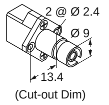

Fig. 4

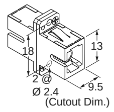

Fig. 5

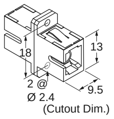

Fig. 6

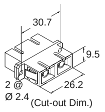

Fig. 7

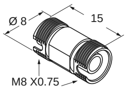

Fig. 8

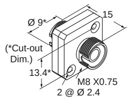

Fig.	Description	External Color	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	SC Hybrid SC/FC, Angled	—	H2492-ND	13.50	12.71	11.52	HSCJ-HRFCJ-B
2	SC Hybrid SC/FC, Straight	—	H2493-ND	18.06	17.46	16.26	HSCJ-HRFCJ-C
3	SC Hybrid SC/ST, Angled	—	H2494-ND	19.29	18.65	17.37	HSCJ-HSTJ-B
4	Panel Mount, Die Cast, Zirconia	—	H2495-ND	15.66	14.74	13.36	HSC-A2-D1
5	Panel Mount, Plastic, Zirconia	Blue	H2496-ND	8.67	7.54	6.79	HSC-A3-D1(02)
6	F-type, Zirconia	Blue	H2497-ND	15.74	14.82	13.43	HSCF-2A-D(P)
7	Non-Flange, Phosphor Bronze	—	H2498-ND	13.36	12.36	11.09	HRFC-A2-SF(01)
8	Cost-Effective, Phosphor Bronze	—	H2499-ND	11.72	10.85	9.73	HRFC-PA11-G1

Terminator

Fig. 1

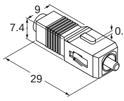

Fig. 2

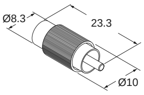

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	Plug, SC type	H2512-ND	88.00	83.61	80.15	HSC-TM-P1
2	Plug, FC type	H2513-ND	66.91	63.57	60.94	HRFC-TM-P1

MU Connectors and Adapters

Fig. 1

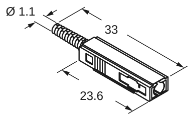

Fig. 2

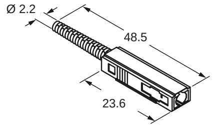

Fig. 3

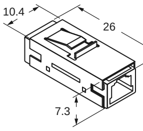

Fig. 4

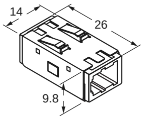

Fig.	Description	Boot Color	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	Simplex Plug for 0.9 Buffered fiber	Blue	H2500-ND	7.10	6.01	5.06	HMUA-P1-H1
2	Simplex Plug for 2 Cable	Blue	H2501-ND	7.10	6.01	5.06	HMUA-P2-H1
3	Simplex Patch Panel Mount Adapter	—	H2502-ND	12.77	12.02	10.89	HMUA-A-3
4	Duplex Patch Panel Mount Adapter	—	H2503-ND	15.35	14.45	13.10	HMUA-2A-3

Attenuators (Maximum Input Power 10mW)

Fig. 1

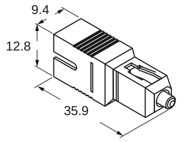

Fig. 2

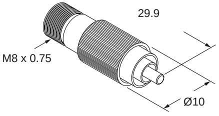

Fig.	Description	Attenuation =1.31 m	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	SC Attenuator	5dB	H2504-ND	91.76	87.17	83.57	HSC-AT8K-A05A
	SC Attenuator	10dB	H2505-ND	91.76	87.17	83.57	HSC-AT8K-A10A
	SC Attenuator	15dB	H2506-ND	91.76	87.17	83.57	HSC-AT8K-A15A
	SC Attenuator	20dB	H2507-ND	91.76	87.17	83.57	HSC-AT8K-A20A
2	FC Attenuator	5dB	H2508-ND	124.25	118.04	113.16	HRFC-AT5K-A05A
	FC Attenuator	10dB	H2509-ND	124.25	118.04	113.16	HRFC-AT5K-A10A
	FC Attenuator	15dB	H2510-ND	124.25	118.04	113.16	HRFC-AT5K-A15A
	FC Attenuator	20dB	H2511-ND	124.25	118.04	113.16	HRFC-AT5K-A20A

Ferrule

Dimension A (mm)	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
0.125	H2514-ND	6.79	5.75	4.83	HMUA-F3-A125
0.1255	H2515-ND	6.79	5.75	4.83	HMUA-F3-A1255
0.126	H2516-ND	6.79	5.75	4.83	HMUA-F3-A126

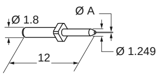

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tyco Electronics AMP

Fiber Optics OPTIMATE® DNP (Dry Non-Polish) Connectors

Dimensions in mm.

Fig. 1
Single Position Plug Assembly

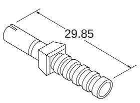

Fig. 2
Single Position Device Mounts

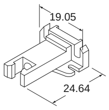

Fig. 3
Single Position Bulkhead Receptacle

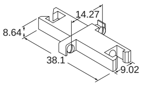

2.39 Dia. - 2 Holes

Fig. 4
Dual Position Plug Assembly

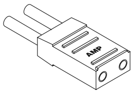

Fig. 5
Dual Position Bulkhead Receptacle

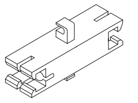

Fig. 6
Splice and Retention Clip

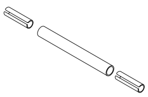

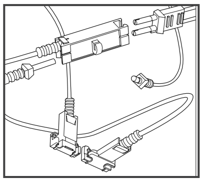

Optical Characteristics: • Insertion Loss: 2dB • Ref.: FOTP 34 Method C **Environmental Characteristics:** • Temperature Range: -40°C ~ 60°C **Mechanical Characteristics:** • Insertion Force: 13.34N [3 lb] (plug to receptacle) • Cable retention plug: 8.89N [12 lb.]

Materials: • Retention Clip: Copper alloy, plated • Splice: Copper alloy, plated • Connectors: Thermoplastic

The economics of using fiber-optic systems is a complex subject. Comparisons of the costs of fiber-optic systems and copper-wired systems are difficult and open to debate. Proper evaluations must be based on the users' needs.

Widespread application of fiber-optic technology will depend on it providing performance equal to, or superior to, copper cable, and at a lower cost. That fiber-optics can outperform cable in some areas seems established. That it can do so more cheaply, is not the rule. As with many new technologies, the prices of fiber-optic components have been dropping, often dramatically. Better products at cheaper prices have been introduced continually, and manufacturers' volume production and maturity of experience are combining to produce significant price reductions. In contrast, prices have been rising for copper cable and associated hardware. Although the point at which fiber-optic systems become less expensive than copper cable systems depends on the application, fiber-optics are becoming more attractive every day.

Users evaluating fiber-optics should consider costs beyond those for the components themselves. Considerations include the education needed to design a fiber-optic system and the costs of training craftsmen and technicians to handle, install, and maintain fiber-optic systems. On the other hand, the small size, light weight, and flexibility may present offsetting cost advantages. Handling, storage, and installation costs may be reduced.

Fig.	Description	Digi-Key Part No.	Pricing 1	25	AMP Part No.
1	Single Position Plug Assembly	A1703-ND	.94	18.28	228087-1
2	Single Position Device Mounts	A1705-ND	.96	20.77	228043-1
3	Single Position Bulkhead Receptacle	A1707-ND	1.69	36.56	228042-1
4	Dual Position Plug Assembly	A20128-ND	2.39	51.75	228088-1
5	Dual Position Bulkhead Receptacle	A20129-ND	1.74	37.69	228045-1
6	Plastic Fiber Retention Clip	A20131-ND	.23	4.07	228046-1

Description	Digi-Key Part No.	Pricing 1	5	AMP Part No.
Hot Knife, Plastic Fiber	A99100-ND	63.35	271.50	228085-1
Single Position Plastic Cutting Fixture	A99102-ND	87.01	372.90	228837-1

Note: X in Part No. = Meter Per Roll
FIBER OPTIC CABLE (O.D. = .089)

Digi-Key Part No.	Price (Meter) 5	10	15	25	50	100
A1700-X-ND	13.76	25.55	37.14	58.95	98.25	176.85

ST Style LightCrimp XTC Connectors

Features: • Singlemode or multimode • Just crimp it on the fiber • 2-minute termination • Ep-oxyless or quick-cure epoxy types • Pre-radiused PC finish (epoxy type) • Body Material: Epoxyless aluminum; Epoxy polymer • Coupling Nut Material: Multimode epoxyless polymer; Singlemode Epoxyless die cast; Epoxy - die cast zinc • Storage Temperature Range: -40°C ~ 85°C

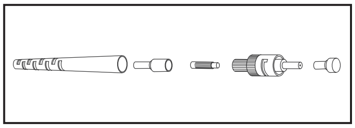

Fiber Size (µm)	Mode Type	Ferrule Material	Insertion Loss dB, Average	Operating Temperature Range (°C)	Durability Cycles, <.20 (dB) Change	Digi-Key Part No.	Price Each 1	10	AMP Part No.
LightCrimp Epoxyless ST Style Connectors									
125	Multi	Plastic	0.4	-40° ~ 65°	500	A20100-ND	9.63	8.56	492168-1
125	Multi	Stainless Steel	0.4	-10° ~ 65°	500	A20101-ND	12.42	11.04	504034-1
125	Multi	Ceramic	0.4	-40° ~ 65°	1000	A20102-ND	15.05	13.38	504001-1
126	Single	Ceramic	0.2	-40° ~ 65°	1000	A20103-ND	36.61	32.54	504000-1
Epoxy ST Style Connectors									
125	Multi	Ceramic	0.4	-20° ~ 75°	1000	A20104-ND	5.40	4.80	501380-1
125	Multi	Ceramic	0.4	-20° ~ 75°	1000	A20105-ND	2.70	2.40	503571-1
125	Multi	Stainless Steel	0.3	-20° ~ 75°	500	A20106-ND	8.01	7.12	504008-3
140	Multi	Stainless Steel	0.3	-30° ~ 75°	500	A29098-ND	8.01	7.12	504008-7
125	Multi	Composite	0.3	-20° ~ 75°	5000	A20107-ND	2.23	1.98	503415-1
126	Single	Zircon/Ceramic	0.3	-20° ~ 75°	200	A20108-ND	5.18	4.60	502579-2

ST Style Coupling Receptacles

Free-Hanging or Panel Mount Design

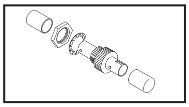

Type	Sleeve Material	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Multimode	Composite	A20109-ND	1.89	1.68	501381-1
Single or Multimode	Metal	A20110-ND	2.23	1.98	504021-1
Single or Multimode	Ceramic	A20111-ND	4.21	3.74	502750-1

ST Style Active Device Mounts

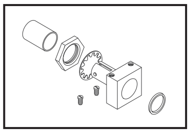

Designed to accept multimode TO-18, TO-46 and TO-52 active devices • Nickel plated, die cast zinc • Mount to PCB or through panel • Includes positioning ring

Description	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Standard Height	A20142-ND	8.57	7.62	501474-1
Low Profile	A20143-ND	5.04	4.48	502585-2

SC Coupling Adapters

Features: • Suitable for any SC Type connector • Choice of housing colors • Metal Alignment Sleeve

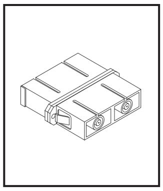

Description	Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
SC Simplex Adapter	Blue	A20144-ND	4.48	3.98	502632-8
SC Simplex Adapter	Beige	A20145-ND	4.48	3.98	502632-9
SC Simplex Adapter	Beige	A32499-ND† ***NEW!***	4.48	3.98	5502632-9
SC Duplex Adapter	Blue	A31777-ND†	6.19	5.50	5502776-8
SC Duplex Adapter	Beige	A20147-ND	6.19	5.50	502776-9
SC Duplex Adapter	Beige	A32500-ND† ***NEW!***	6.19	5.50	5502776-9

† ***RoHS Compliant***

Hybrid Adapters

Features: • Use for Multimode or Singlemode • Available with mounting screws • Adapt various connector interfaces • Metal alignment sleeve

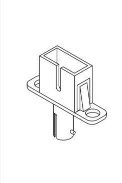

Description	Housing Material	Housing Color	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Simplex Style						
SC to ST	Plastic	Black	A20148-ND	4.48	3.98	502780-1
SC to ST	Plastic	Blue	A20149-ND	4.48	3.98	502780-2
SC to ST	Nickel Plated	Die Cast	A20151-ND	10.06	8.94	503638-1
SC to FC	Plastic	Black	A20152-ND	6.68	5.94	502781-1
SC to FC	Plastic	Beige	A20154-ND	6.68	5.94	502781-3
SC to FC	Nickel Plated	Die Cast	A20155-ND	13.66	12.14	503480-1

FSMA Connectors

Features:
- Industry compatible with 905 and 906 style connectors • Design parameters conform to NATO and IEC interface standards • Ferrule Material: Stainless steel • Connector Body Material: Nickel-Plated brass

Performance Characteristics:
- Insertion Loss: 1.5dB Typical • Temperature Range: -55°C ~ 105°C
- Durability: 200 mating cycles

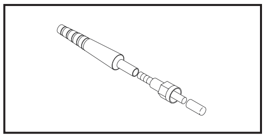

Description	Fiber Diameter	Digi-Key Part No.	Price Each 1	10	AMP Part No.
FSMA Connector (905)	125µm	A20126-ND	15.01	13.34	504566-1
FSMA Connector (906)	125µm	A20127-ND	17.03	15.14	504014-1
FSMA Connector (905)	140µm	A29100-ND	15.01	13.34	504566-2

Singlemode Fiber Optic Attenuators

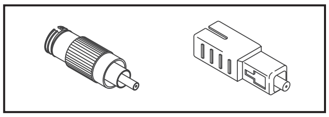

Singlemode High Performance Attenuators utilize unique all fiber mechanisms to increase the loss of an optical signal. These designs minimize reflectance. High Performance Attenuators use no filters, air-gaps, or core mismatches.

Specifications:
• **Fixed Attenuation Values:** 3- 20dB • **Reflectance:** ≤-45dB, -50, -55 and -60dB • **Operating Temperature:** -40°C ~ 75°C • **Vibration Resistance:** ≤0.1 x attenuation

Attenuation (dB)	Digi-Key Part No.	Price Each	AMP Part No.
FC Dual Window Attenuators			
3	A20173-ND	60.75	209948-3
10	A20175-ND	60.75	1-209948-0
15	A20176-ND	60.75	1-209948-5
SC Dual Window Attenuators			
3	A20178-ND	60.75	209943-3
5	A20179-ND	60.75	209943-5
10	A20180-ND	60.75	1-209943-0
15	A20181-ND	60.75	1-209943-5
20	A20182-ND	60.75	2-209943-0

Kits, Tools and Accessories

Termination Kits:

For AMP FSMA, and SC Style:
Termination kits provide all the materials and tools (except epoxy) required to terminate a particular type of fiber optic connector. Tools are conveniently packaged in a handy carrying case. The kits contain polishing materials for approximately 60 connectors. The consumable items in the kit can be purchased separately.

Polishing (Lapping) Film Packets:
Polishing film sheets are used with polishing bushings for hand polishing of fiber optic connectors. Most part numbers consist of a packet of ten 8.5" x 11.0" (21.59cm x 27.94cm) sheets. Each packet will polish between 60 and 80 connectors.

Consumables Kits:
Contains all consumable supplies for at least 100 connectors. Epoxy (general purpose), polish film, epoxy applicators and polish pad.

Features:
- Pre-centered adapter mount provides quick, easy focusing, and changing of connectors • Kg-3 infrared filter to protect the user • Durable, lightweight A.B.S. plastic microscope body • Lockable, high density polyethylene, double-well carrying case with antistatic foam cut-outs

Description	Digi-Key Part No.	Price Each	AMP Part No.
LightCrimp Epoxy Type Termination Kits (Epoxy Sold Separately)			
FSMA	A9835-ND	786.24	503746-2
SC	A9829-ND	845.67	503746-7
LightCrimp XTC Termination Tool Kit			
Mini Tool Kit	A9825-ND	749.39	492322-1
Tool Kit without Microscope	A9826-ND	1205.52	503330-1
Tool Kit with Premium Microscope	A9827-ND	2876.48	503330-2
Scribing Tools			
Sapphire-Tipped Scribe Tool	A99109-ND	51.03	504064-1
Replacement Blades for A99109-ND	A99110-ND	46.32	504290-1
Polishing (Lapping) Film Sheets			
FSMA, FSD, RSD – 5µm, Light Gray, (multiples of 10 sheets)	A20221-ND	20.48	228433-8
FC Type, D4 Type – 1µm, Green, (multiples of 10 sheets)	A20222-ND	20.48	228433-7
ST Style, AMP SC – 0.3µm, White, (multiples of 10 sheets)	A20223-ND	20.48	228433-5
Consumables Kits			
FSMA, FSD, ST Style	A9836-ND	306.90	502306-1
FC Type, D4 Type, AMP SC, Singlemode ST Style	A9837-ND	422.96	502306-2
Epoxy Curing Oven			
110VAC Oven with Adapter Block - Universal Block*	A20220-ND	736.70	502134-1

* Universal block 12 single and 4 FSD Connectors

Fiber Optic Multimode Switches

Low Profile Fiber Optic Switches are miniature, board mountable devices that permit the switching of an optical signal from one fiber to another. Switching is accomplished by a slight pivoting motion of a spherical mirror which reflects the optical signal to the appropriate fiber. This patented imaging technology provides very low optical loss. Fiber Optic Switches can be terminated with any fiber optic connector.

Specifications:

• **Switching Speed:** 5msec Typical • **Operating wavelength:** 750-1450nm • **Insertion loss at 1300nm:** 0.5dB Typical, 0.8dB Maximum per FOTP-34 • **Crosstalk:** -45dB Typical per FOTP-42 • **Switch Driver:** 5V at 80mA Maximum, 12V option available • **Fiber Type:** Graded Index 62.5/125 • **Lead Length:** 1 meter • **Operating Temperature Range:** -10°C ~ 65°C per FOTP-3, C2 • **Connector Style:** ST Style • **Durability:** >1 million cycles

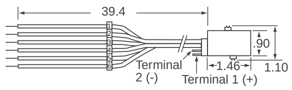

Switch	Fiber Leads Used
1x2 SPDT	1, 2, 3
Dual 1x2 DPDT	1, 2, 3, 4, 5, 6

Switch Type	Circuit	Electrical Interface	Fiber Connector	Digi-Key Part No.	Price Each	AMP Part No.
1 x 2	SPDT	Straight Pin	ST Style	A20163-ND	394.80	99427-2
Dual 1 x 2	DPDT	Straight Pin	ST Style	A20164-ND	394.80	99982-2

Fiber Optic Cable Assemblies and Accessories

Fiber Optic Cable Assemblies

• Multimode • 62.5/125 Micron Fiber Size • Orange

Fig. 1 — ST-ST Zip Style Cable Duplex Connector

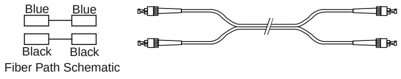

Fig. 2 — FSD-FSD Zip Style Cable Duplex Connector

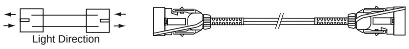

Fig. 3 — SC-SC Zip Style Cable Duplex Connector

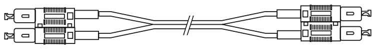

Fig. 4 — SC-ST Zip Style Cable Duplex Connector

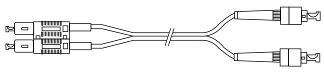

Fig. 5 — SC-SC Riser Rated Cable Simplex Connector

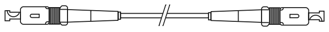

Fig. 6 — SC-ST Riser Rated Cable Simplex Connector

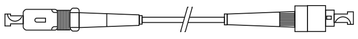

Fig.	Length (meter)	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
1	1	A11BBC-0201D-ND*	25.18	22.38	503995-1
	2	A11BBC-0202D-ND*	27.41	24.36	503995-2
	3	A11BBC-0203D-ND*	29.61	26.32	503995-3
	5	A11BBC-0205D-ND*	34. 02	30.24	503995-4
	10	A11BBC-0210D-ND*	45.05	40.04	503995-5
	1	A11BBP-0201D-ND†	28.98	25.76	503994-1
	2	A11BBP-0202D-ND†	30.65	27.24	503994-2
	3	A11BBP-0203D-ND†	32.99	29.32	503994-3
	5	A11BBP-0205D-ND†	36.97	32.86	503994-4
	10	A11BBP-0210D-ND†	46.71	41.52	503994-5
2	1	A11FFC-0201D-ND*	89.24	79.32	504626-1
	3	A11FFC-0203D-ND*	97.29	86.48	504626-3
	5	A11FFC-0205D-ND*	105.30	93.60	504626-4
2	1	A11FFP-0201D-ND†	75.94	67.50	504625-1
	2	A11FFP-0202D-ND†	79.99	71.10	504625-2
	3	A11FFP-0 203D-ND†	83.99	74.66	504625-3
	5	A11FFP-0205D-ND†	92.00	81.78	504625-4
	10	A11FFP-0210D-ND†	112.05	99.60	504625-5
3	1	A11DDC-0201D-ND*	40.07	35.62	504971-1
	2	A11DDC-0202D-ND*	41.90	37.24	504971-2
	3	A11DDC-0203D-ND*	43.72	38.86	504971-3
	5	A11DDC-0205D-ND*	47.36	42.10	504971-4
	10	A11DDC-0210D-ND*	56.48	50.20	504971-5
4	1	A11DBC-0201D-ND*	34.25	30.44	504958-1
	2	A11DBC-0202D-ND*	31.88	28.34	504958-2
	3	A11DBC-0203D-ND*	37.37	33.22	504958-3
4	5	A11DBC-0205D-ND*	41.18	36.60	504958-4
	10	A11DBC-0210D-ND*	49.59	44.08	504958-5
5	1	A11DDC-0101C-ND*◊ ***NEW!***	17.24	15.32	5504970-1
	2	A11DDC-0102B-ND*	18.43	16.38	504970-2
	3	A11DDC-0103B-ND*	19.62	17.44	504970-3
	5	A11DDC-0105B-ND*	22.01	19.56	504970-4
	5	A11DDC-0105C-ND*◊ ***NEW!***	22.01	19.56	5504970-4
	10	A11DDC-0110B-ND*	27.97	24.86	504970-5
6	1	A11DBC-0101B-ND*	17.24	15.32	504972-1
	2	A11DBC-0102B-ND*	18.43	16.38	504972-2
	3	A11DBC-0103B-ND*	19.62	17.44	504972-3
	5	A11DBC-0105B-ND*	22.01	19.56	504972-4
	10	A11DBC-0110B-ND*	27.97	24.86	504972-5

* Ceramic † Polymer Composite ◊ ***RoHS Compliant***

Amphenol Fiber Optic Connectors

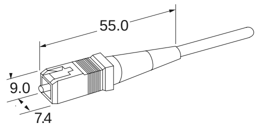

• **Connection Loss:** 0.27dB Typical; single mode

Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 50
954 SC Series Connector				
SC Ceramic, 125µm Hole Diameter	AFP1011-ND	7.80	75.00	360.00

TT electronics OPTEK Technology Infrared Emitters and Receivers

Fiber Optic Pin Photodiodes and Receivers

Fig.	Output Current (mA)	Responsivity Min./Typ.	Output Rise Time - Typ. (ns)	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 250	TT Electronics Part No.
1	25	5.3mV / 7µW	3.3	365-1025-ND	14.28	11.69	10.71	OPF2416T
2	—	0.45AW / 0.55AW	1.0	365-1029-ND	7.52	6.16	5.65	OPF480
3	—	0.45AW / 0.55AW	1.0	365-1030-ND	15.95	13.05	11.97	OPF482

Fiber Optic (850nm) Light-Emitting Diodes

Fig.	Optical Power Output Min. / Typ.	Output Rise Time - Typ. (ns)	Continuous Forward DC Current (mA)	Digi-Key Part No.	Price Each 1	Price Each 100	Price Each 250	TT Electronics Part No.
1	-17.3µW / -13.8µW	4.0	100	365-1024-ND	13.24	10.84	9.94	OPF1414T
2	25.0dBm / 29.0dBm	6.0	100	365-1026-ND	9.15	7.49	6.87	OPF370A

Fig. 1 (Panel Mount)

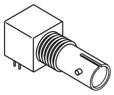

Fig. 2

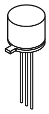

Fig. 3

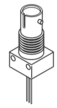

OMRON Optical Communication Devices

Omron has achieved the worlds smallest size by combining Omron's Micro Lens Array with thin film filters in a proprietary structure. This minimizes costs by reducing the number of internal parts. Omron's optical switches (1 x 2 and 2 x 2) use a low power consumption with a latching function. The numbers of components are reduced using a complex prism and are able to accommodate SC type fiber optic connectors. Applications include fault response, maintenance, (OXC) Optical Cross Connect Circuit, (OADM) Optical Add/Drop Multiplex Circuit.

Omron's 4 channel and 8 channel Mux and Demux devices are SC connector compatible for transceiver and transponder applications. Using Omron's proprietary Micro Lens Array structure makes these the worlds smallest and most cost effective Mux/Demuxs available. Use for CWDM, LX4, B-PON, E-PON, G-PON and (OADM) Optical Add/Drop Multiplex Circuit.

Fig. 1

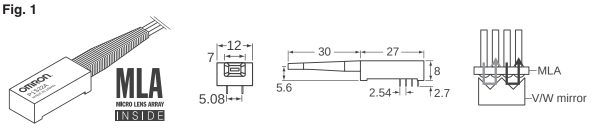

Fig. 2

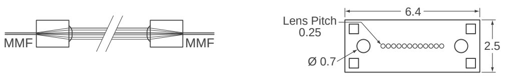

Fig.	Description	Digi-Key Part No.	Price Each	Omron Part No.
1	Fiber Optic Switch, 1 x 2 with SC Connector	Z2220-ND	394.50	P1S12B-LD-SC
	Fiber Optic Switch, 1 x 2 with SC Connector	Z2221-ND	394.50	P1S12B-D-SC
	Fiber Optic Switch, 2 x 2 with SC Connector	Z2222-ND	496.50	P1S22B-LD-SC
	Fiber Optic Switch, 2 x 2 with SC Connector	Z2223-ND	496.50	P1S22B-D-SC
	Fiber Optic 4 Channel Demux, 1511nm Wavelength, SC Connector	Z2210-ND	655.50	P1X4A-DX1511S20-SC
	Fiber Optic 4 Channel Mux, 1511nm Wavelength, SC Connector	Z2211-ND	655.50	P1X4A-MX1511S20-SC
	Fiber Optic 8 Channel Demux, 1471nm Wavelength, SC Connector	Z2212-ND	1251.00	P1X8A-DX1471S20-SC
	Fiber Optic 8 Channel Mux, 1471nm Wavelength, SC Connector	Z2213-ND	1251.00	P1X8A-MX1471S20-SC
2	Collimator Flat Lens Array, 1 x 12, AirGap 1.5mm	Z2214-ND	34.50	P1L12A-C1
	Collimator Flat Lens Array, 1 x 12, AirGap 2.5mm	Z2215-ND	34.50	P1L12A-C2
—	Focusor Flat Lens Array, 1 x 12, V~L= 0.3mm, L~F=0.3mm	Z2216-ND	34.50	P1L12A-F1
	Focusor Flat Lens Array, 1 x 12, VCSEL~Lens= 0.2mm	Z2217-ND	34.50	P1L12A-F2
	Right Angle Focusor Flat Lens Array, 1 x 12, V~L=0.3mm, L~F=0.5mm	Z2219-ND	51.00	P1L12C-F1
	Right Angle Focusor Flat Lens Array, 1 x 12, F~L=0.4mm	Z2218-ND	51.00	P1L12C-F2

TOSHIBA

Fiber Optic Receiving and Transmitting Modules

Dim. in mm

Fig. 1

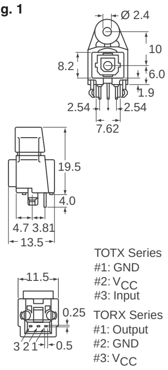

Fig. 2

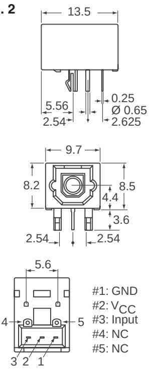

Fig. 3

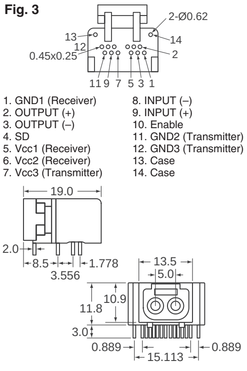

Fig.	Supply Voltage Min./Max. (Vcc)	Data Rate Mb/s	Current Con-sumption (mA)	Input Voltage High/Low	Digi-Key Part No.	Price Each 1	10	100	Toshiba Part No.
					Transmitters				
1	2.7/3.6	15	8	2.1/0.9	TOTX147FT-ND◊	2.00	1.60	1.20	TOTX147(F,T)
	2.7/3.6	15	15	2.1/0.9	TOTX141L-ND#	4.95	3.96	3.08	TOTX141L
2	2.7/3.6	15	15	2.1/0.9	TOTX141PFT-ND◊	2.70	2.16	1.68	TOTX141P(F,T)
1	2.7/3.6	25	15	2.1/0.9	TOTX142LF-ND#◊	5.00	4.00	3.38	TOTX142L(F)
	2.7/3.6	15	8	2.1/0.9	TOTX147L-ND#	2.13	1.70	1.28	TOTX147L(F,T,)
	4.75/5.25	15	8	2.0/0.8	TOTX177L-ND#	2.13	1.70	1.28	TOTX177L(F,T)
	4.75/5.25	15	8	2.0/0.8	TOTX177FT-ND◊	2.00	1.60	1.20	TOTX177(F,T)
	4.75/5.25	12.8	15	2.0/0.8	TOTX179L-ND#	3.89	3.12	2.43	TOTX179L
2	4.75/5.25	12.8	15	2.0/0.8	TOTX179PFT-ND◊	4.12	3.30	2.57	TOTX179P(F,T)
					Receivers				
1	2.7/3.6	15	10	2.1/0.4	TORX147FT-ND◊	2.13	1.70	1.28	TORX147(F,T)
	2.7/3.6	15	10	2.1/0.4	TORX147LFT-ND#◊ ***NEW!***	2.38	1.90	1.43	TORX147L(F,T)
	2.7/3.6	25	10	2.1/0.4	TORX142LF-ND#◊	5.60	4.48	3.78	TORX142L(F)
	4.75/5.25	15	10	3.6/.04	TORX177FT-ND◊	2.13	1.70	1.28	TORX177(F,T)
	4.75/5.25	15	10	3.6/.04	TORX177LFT-ND#◊	2.38	1.90	1.43	TORX177L(F,T)
					Transceiver				
3	3/3.6	250	40(T)/35(R)	—	TODX2402(F)-ND	27.00	25.20	23.40	TODX2402(F)

# With shutter ◊ ***RoHS Compliant***

SHARP MICROELECTRONICS

Fiber Optics

Dim. in mm

Fig. 1

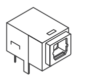

Fig. 2

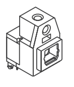

Fig. 3

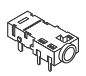

Fig. 4

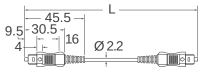

Transmitters and Receivers

Fig.	Vcc Typ. (V)	ViH Min. (V)	ViL Max. (V)	VoH Min. (V)	VoL Max. (V)	Peak Wave-length (nm) Typ.	Operating Transfer Rate (Mbps) Max.	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
								Transmitters				
1	5	3.8	1.3	—	—	660	13.2	425-1896-5-ND	2.08	1.66	1.37	GP1FM513TZ
	5	2.9	1.3	—	—	660	13.2	425-1898-ND†	1.63	1.30	1.08	GP1FP513TK
2	5	2.1	0.8	—	—	660	13.2	425-1101-5-ND	1.75	1.40	1.16	GP1FA551TZ
	5	2.1	0.8	—	—	660	13.2	425-1858-ND#	1.73	1.38	1.14	GP1FA512TZ
	3	2.3	0.8	—	—	660	15.5	425-1890-5-ND#	1.55	1.24	1.03	GP1FA313TZ
	5	2.0	0.8	—	—	660	13.2	425-1894-5-ND#	1.45	1.16	.96	GP1FA514TZ
								Receivers				
1	5	—	—	2.7	0.5	700	13.2	425-1895-5-ND	2.43	1.94	1.61	P1FM513RZ
	5	—	—	2.7	0.5	700	13.2	425-1897-ND†	1.80	1.44	1.19	GP1FP513RK
2	3	—	—	2.1	0.5	700	15.5	425-1889-5-ND#	1.48	1.18	.98	GP1FA313RZ
	3	—	—	2.1	0.5	700	15.5	425-1891-5-ND	1.43	1.14	.95	GP1FA352RZ
	5	—	—	2.7	0.5	700	13.2	425-1893-5-ND#	1.88	1.50	1.24	GP1FA513RZ

† Tray (not a tube) # With shutter

Mini-Jack for Digital Audio (electrical and optical transmission)

Fig.	Vcc (V)	Peak Wavelength (nm) Typ.	Operating Transfer Rate (Mbps) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	Sharp Part No.
				Transmitter					
3	2.7 – 3.6	660	8	425-1113-1-ND	2.42	2.12	1.70	1531.86	GP1FD310TP
				Receiver					
3	2.3 – 2.8	700	8	425-1114-1-ND	2.92	2.56	2.05	1848.36	GP1FD210RP

* For Tape and Reel part number, change 1-ND to 2-ND.

Cables

Fig.	L (meters)	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
4	0.6	425-1802-ND	5.41	4.45	3.38	GP1C331A
	2.0	425-1803-ND	7.87	6.48	4.92	GP1C332
	5.0	425-1804-ND	12.68	10.43	7.92	GP1C335

INDUSTRIAL FIBER OPTICS, INC.

Fiber Optic LEDs and Detectors

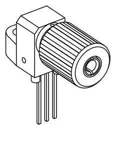

Fiber Optic family of low-cost, medium frequency, short distance fiber optic LEDs and photo detectors feature: • Connector-less interface • No optical design required • Simple fiber termination and connection.

Each LED and detector consists of a PBT housing, an internal active element such as an LED or photodetector, and a cinch nut to hold the fiber in place. The PBT housing retains the active element and the cinch nut while optimizing coupling between the active element and the jacketed 1000µm plastic fiber.

Shared Ratings: Maximum Ratings and Characteristics (T_A=25°C): Operating and Storage Temperature Range (T_{OP},T_{STG}): -40°C ~ 85°C. De-rated above 25°C: 1.33mW/°C.

Fiber Optic Connector

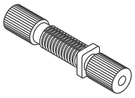

This multi-purpose connector is designed for jacketed 1mm core plastic fiber. It utilizes the same cinch nuts, alignment principles and no-fuss fiber terminations to quickly handle the most common requirements for joining two fibers.

FB139-ND **$15.00**

Description	Reverse Voltage V_R	Power Dissipation P_{TOT} T_A=25°C	Forward Current DC I_F	Rise/Fall Time tr,tf †	Typ. Photo–sensitivity PEAK	Typ. Output Power Coupled*	Digi-Key Part No.	Price Each	IFO Part No.
Plastic Fiber Optic Infrared LED	3.0V	100mW	50mA	1.0/1.0 µs	950nm	100µW	FB118-ND	3.48	IF-E91A
Plastic Fiber Optic 100 Mbps Infrared LED	3.0V	60mW	60mA	7.0/7.0 ns	870nm	300µW	FB134-ND	5.25	IF-E91D
Plastic Fiber Optic Blue LED	5.0V	60mW	35mA	0.5/0.5 µs	430nm	25µW	FB125-ND	14.38	IF-E92A
Plastic Fiber Optic Blue LED	5.0V	60mW	35mA	0.6/0.6 µs	470nm	75µW	FB126-ND	14.38	IF-E92B
Plastic Fiber Optic Green LED	5.0V	60mW	35mA	3.5/16 ns	530nm	75µW	FB127-ND	10.63	IF-E93
Plastic Fiber Optic Red LED	5.0V	60mW	35mA	0.1/0.1 µs	660nm	<50µW	FB128-ND	4.88	IF-E96
Plastic Fiber Optic Super-Bright LED	5.0V	100mW	40mA	0.5/0.5 µs	660nm	<100µW	FB129-ND	6.50	IF-E97
Plastic Fiber Optic 50 Mbps Red LED	5.0V	100mW	40mA	8.0/8.0 ns	650nm	>100µW	FB135-ND	14.00	IF-E98
Plastic Fiber Optic 155 Mbps Red LED	5.0V	100mW	40mA	—	650nm	-1.5µW	FB136-ND	37.50	IF-E99

Description	Rise/Fall Time tr, tf †	Total Capacitance CT	Dark Current (VR=30 Volts, EE=0) ID	Reverse Breakdown Voltage B(BR)R	Max. Photo–sensitivity PEAK	Power Dissipa–tion P_{TOT}	Digi-Key Part No.	Price Each	IFO Part No.
Active Photodiode	5/5 ns	4pF	<60nA	60.0V	880nm	100mW	FB120-ND	4.18	IF-D91

Description	Rise/Fall Time tr,tf †	Collector Emitter Voltage VCEO	Emitter Collector Voltage VECO	Collector Current IC	Collector Peak Current ICM t=1ms	Max. Photo–sensitivity PEAK	Digi-Key Part No.	Price Each	IFO Part No.
Active Phototransister	20/20 µs	30.0V	5.0V	50mA	100mA	870nm	FB121-ND	3.65	IF-D92
Active Photodarlington	5/2.5 ms	15.0V	5.0V	50mA	100mA	850nm	FB122-ND	5.65	IF-D93

Description	Rise/Fall Time tr,tf	Supply Voltages VS	Voltage@ Output Lead	Propagation delay time tP	Max. Photo–sensitivity PEAK	Power Dissipa–tion P_{TOT}	Digi-Key Part No.	Price Each	IFO Part No.
Photologic Detector with Totem-Pole Output	70/70 ns	18.0V	—	8 µs	800nm	100mW	FB123-ND	6.55	IF-D95T
Photologic Detector with Open Collector Output	0.1/0.1 µs	18.0V	35.0V	8 µs	800nm	100mW	FB124-ND	6.55	IF-D95OC
Photologic Detector with Totem-Pole Output	0.1/0.1 µs	7.0V	—	12 ns	800nm	100mW	FB133-ND	18.75	IF-D97
Photologic Detector with Totem-Pole Output	3/3 ns	7.0V	3.4V	3.5 ns	1050nm	250mW	FB137-ND	31.00	IF-D98

Fiber Dia. (mm)	Description	Digi-Key Part No.	Note: X in Part No. = Meter Per Roll Price (Meter) 1	10	25	50	100	250	500
1 x 1	SH4001 Super Eska Fiber Optic Cable, 2.2 mm Dia. Jacket	FB140-X-ND	1.99	18.55	43.06	83.48	159.00	331.25	596.25

Fiber Dia. (mm)	Description	Digi-Key Part No.	Note: X in Part No. = Meter Per Roll Price (Meter) 1	10	25	50	100	250	500
1 x 2	SH4002 Super Eska Fiber Optic Cable, 2.2 mm Dia. Jacket	FB141-X-ND	3.90	36.40	84.50	163.80	312.00	650.00	1080.00

* Into plastic fiber (1mm core dia.). Distance lens to fiber <0.1 mm, 10 cm polished fiber, IF = 10mA. † Rise time and fall times-measured from the 10% to 90% to 10% points respectively.

Weidmüller Terminal Blocks

Dimensions in mm

Fig. 1 LM 3.5/90

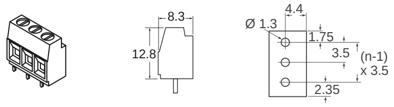

Specifications:
• Screw Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.5mm

Fig. 2 LM 3.5/135

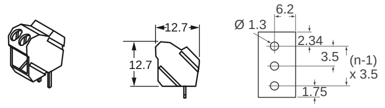

Specifications:
• Screw Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.5mm

Fig. 3 LM2N 3.5/90

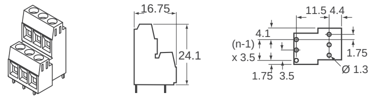

Specifications:
• Screw Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.5mm

Fig. 4 LM 5.00/90

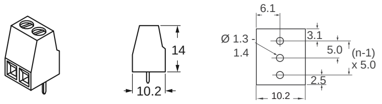

Specifications:
• Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 5 LM 5.00/135

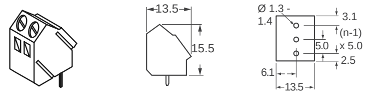

Specifications:
• Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 6 LP 5.00/90

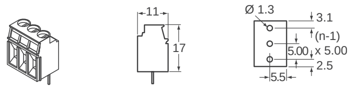

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 7 LP 5.00/135

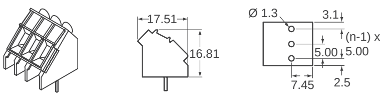

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 8 LP 2N/5.00

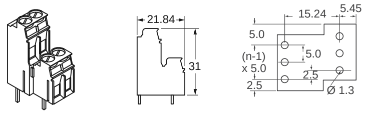

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 9 LPP 5.00/90

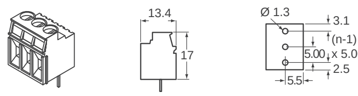

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm • Test Point

Fig. 10 LM 5.08/90

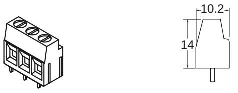

Specifications:
• Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 11 LM 5.08/135

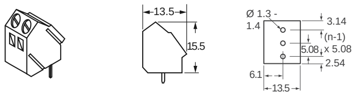

Specifications:
• Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 12 LM 5.08/180

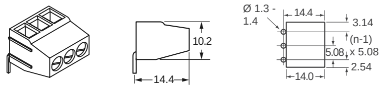

Specifications:
• Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 13 LM2N 5.08/90

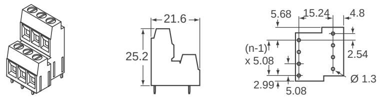

Specifications:
• Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 14 LM3R 5.08/90

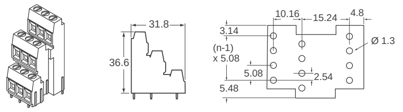

Specifications:
• Screw Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 15 LP 5.08/90

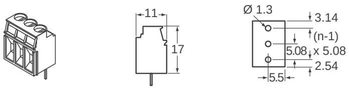

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
3.5mm Pin Spacing – PCB Terminal Blocks							
1	2	Black	281-1400-ND	.80	.72	.64	1699670000
	3		281-1401-ND	1.20	1.08	.96	1699680000
	4		281-1402-ND	1.68	1.52	1.35	996770
	6		281-1403-ND	2.51	2.26	2.01	996772
	8		281-1404-ND	3.33	3.00	2.67	996774
	10		281-1405-ND	4.19	3.77	3.35	996776
	12		281-1406-ND	5.01	4.51	4.01	996778
2	2	Black	281-1407-ND	.95	.86	.76	1715010000
	3		281-1408-ND	1.41	1.27	1.13	1715050000
	4		281-1409-ND	1.88	1.69	1.50	999568
	6		281-1410-ND	2.79	2.52	2.24	999570
	8		281-1411-ND	3.75	3.38	3.00	999572
	10		281-1412-ND	4.67	4.20	3.74	999574
	12		281-1413-ND	5.61	5.05	4.49	999576
3	4	Black	281-1670-ND	2.51	2.26	2.01	1720000000
	6		281-1671-ND	3.77	3.39	3.02	1720010000
	8		281-1672-ND	5.03	4.53	4.02	1720020000
	10		281-1673-ND	6.27	5.65	5.02	1720030000
	12		281-1674-ND	7.52	6.77	6.02	1720040000
	16		281-1675-ND	10.04	9.04	8.03	1720060000
	20		281-1676-ND	12.54	11.29	10.04	1720080000
	24		281-1677-ND	15.06	13.56	12.05	1720100000
5.00mm Pin Spacing – PCB Terminal Blocks							
4	2	Black	281-1414-ND	.66	.60	.53	1715250000
	3		281-1415-ND	.98	.88	.78	1715260000
	4		281-1416-ND	1.29	1.17	1.04	999330
	6		281-1417-ND	1.94	1.75	1.55	999332
	8		281-1418-ND	2.58	2.33	2.07	999334
	10		281-1419-ND	3.21	2.89	2.57	999336
	12		281-1420-ND	3.86	3.47	3.09	999338
5	2	Black	281-1421-ND	.71	.64	.57	1715290000
	3		281-1422-ND	1.05	.95	.84	1715300000
	4		281-1423-ND	1.41	1.27	1.13	999351
	6		281-1424-ND	2.10	1.89	1.68	999353
	8		281-1425-ND	2.81	2.53	2.25	999355
	10		281-1426-ND	3.50	3.15	2.80	999357
	12		281-1427-ND	4.20	3.78	3.36	999359
6	2	Black	281-1876-ND	.86	.77	.69	1696060000
	3		281-1877-ND	1.26	1.14	1.01	1696070000
7	2	Black	281-1880-ND	.90	.81	.72	1697180000
	3		281-1881-ND	1.37	1.23	1.10	1697190000
8	4	Orange	281-1456-ND	2.16	1.95	1.73	1635170000
	6		281-1457-ND	3.24	2.92	2.60	1625570000
	8		281-1458-ND	4.29	3.87	3.44	1596440000
	10		281-1459-ND	5.39	4.85	4.31	1596480000
	12		281-1460-ND	6.45	5.81	5.16	1632710000
9	2	Black	281-1878-ND	1.25	1.13	1.00	1697140000
	3		281-1879-ND	1.83	1.65	1.47	1697150000
5.08mm Pin Spacing – PCB Terminal Blocks							
10	2	Black	281-1435-ND	.66	.60	.53	1716020000
	3		281-1436-ND	.98	.88	.78	1716030000
	4		281-1437-ND	1.29	1.17	1.04	999392
	6		281-1438-ND	1.94	1.75	1.55	999394
	8		281-1439-ND	2.58	2.33	2.07	999396
	10		281-1440-ND	3.21	2.89	2.57	999398
	12		281-1441-ND	3.86	3.47	3.09	999400
11	2	Black	281-1442-ND	.71	.64	.57	1716060000
	3		281-1443-ND	1.05	.95	.84	1716070000
	4		281-1444-ND	1.41	1.27	1.13	999434
	6		281-1445-ND	2.10	1.89	1.68	999436
	8		281-1446-ND	2.81	2.53	2.25	999438
	10		281-1447-ND	3.50	3.15	2.80	999440
	12		281-1448-ND	4.20	3.78	3.36	999442
12	2	Black	281-1449-ND	.71	.64	.57	1716040000
	3		281-1450-ND	1.05	.95	.84	1716050000
	4		281-1451-ND	1.41	1.27	1.13	999476
	6		281-1452-ND	2.10	1.89	1.68	999478
	8		281-1453-ND	2.81	2.53	2.25	999480
	10		281-1454-ND	3.50	3.15	2.80	999482
	12		281-1455-ND	4.20	3.78	3.36	999484
13	4	Black	281-1564-ND	2.00	1.80	1.60	1769080000
	6		281-1565-ND	3.00	2.70	2.40	1769090000
	8		281-1566-ND	3.99	3.60	3.20	1769100000
	10		281-1567-ND	5.00	4.50	4.00	1769110000
	12		281-1568-ND	5.97	5.38	4.78	1769120000
	16		281-1569-ND	8.00	7.20	6.40	1769140000
	20		281-1570-ND	9.99	9.00	8.00	1769160000
	24		281-1571-ND	11.97	10.78	9.58	1769180000
14	6	Black	281-1572-ND	3.53	3.18	2.82	1769930000
	9		281-1573-ND	5.27	4.74	4.22	1769940000
	12		281-1574-ND	7.02	6.32	5.62	1769950000
14	15	Black	281-1575-ND	8.78	7.90	7.02	1769960000
	18		281-1576-ND	10.53	9.48	8.43	1769970000
	24		281-1577-ND	14.03	12.63	11.22	1769990000
	30		281-1578-ND	17.54	15.79	14.03	1770010000
	36		281-1579-ND	21.05	18.95	16.84	1770030000
15	2	Black	281-1870-ND	.86	.77	.69	1696040000
	3		281-1871-ND	1.26	1.14	1.01	1696050000
16	2	Black	281-1872-ND	1.25	1.13	1.00	1697120000
	3		281-1873-ND	1.83	1.65	1.47	1697130000
17	2	Black	281-1874-ND	.90	.81	.72	1676740000
	3		281-1875-ND	1.37	1.23	1.10	1676750000
18	4	Orange	281-1461-ND	2.16	1.95	1.73	1635150000
	6		281-1462-ND	3.24	2.92	2.60	1625550000
	8		281-1463-ND	4.29	3.87	3.44	1596470000
	10		281-1464-ND	5.39	4.85	4.31	1596500000
	12		281-1465-ND	6.45	5.81	5.16	1632560000
19	1	Black	281-1735-ND	4.35	3.92	3.48	1755190000
20	2	Black	281-1882-ND	.38	.34	.30	1760510000
	3		281-1883-ND	.56	.50	.45	1760520000
21	2	Black	281-1678-ND	.81	.73	.65	1721640000
	3		281-1679-ND	1.14	1.03	.92	1721650000
	4		281-1680-ND	1.52	1.37	1.22	1721660000
	5		281-1681-ND	1.88	1.69	1.50	1721670000
	6		281-1682-ND	2.16	1.95	1.73	1721680000
	8		281-1683-ND	2.79	2.52	2.24	1721700000
	10		281-1684-ND	3.53	3.18	2.82	1721720000
	12		281-1685-ND	4.20	3.78	3.36	1721740000
22	2	Black	281-1686-ND	.81	.73	.65	1734220000
	6		281-1690-ND	2.16	1.95	1.73	1734260000
	10		281-1692-ND	3.53	3.18	2.82	1734300000
	12		281-1693-ND	4.20	3.78	3.36	1734320000
23	3	Black	281-1695-ND	1.14	1.03	.92	1722410000
	4		281-1696-ND	1.52	1.37	1.22	1722420000
	5		281-1697-ND	1.88	1.69	1.50	1722430000
	6		281-1698-ND	2.16	1.95	1.73	1722440000

(Continued)

Fig. 16 LPP 5.08/90

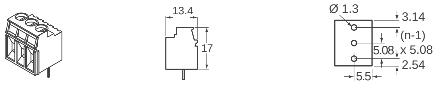

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm • Test Point

Fig. 17 LP 5.08/135

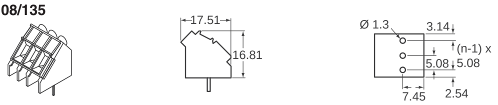

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 18 LP 2N/5.08

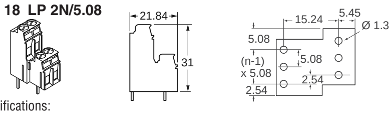

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 19 LPTR 5.08/90

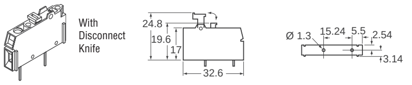

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG • Pin Length: 4.5mm

Fig. 20 PM 5.08/90

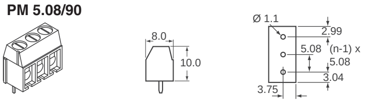

Specifications:
• Leaf Spring Screw Clamp • UL: 300V @ 16A • 14AWG • Pin Length: 3.5mm

Fig. 21 LMZF 5.08/90

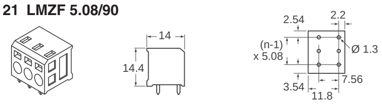

Specifications:
• Tension Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.1mm

Fig. 22 LMZF 5.08/135

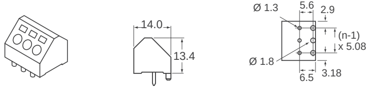

Specifications:
• Tension Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.5mm

Fig. 23 LMZF 5.08/180

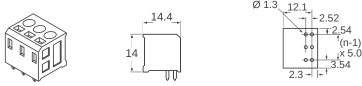

Specifications:
• Tension Clamp • UL: 300V @ 10A • 14AWG • Pin Length: 4.5mm

Fig. 24 LM2NZF 5.08/135

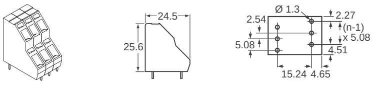

Specifications:
• Tension Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 25 LM3RZF 5.08/135

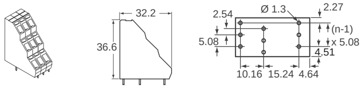

Specifications:
• Tension Clamp • UL: 300V @ 10A • 12AWG • Pin Length: 3.5mm

Fig. 26 LX 15.00/90

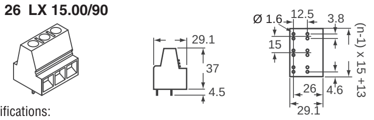

Specifications:
• Screw Clamp • UL: 600V @ 85A • 4AWG • Pin Length: 4.5mm

Fig. 27 LXBL 15.00/90

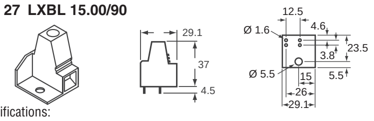

Specifications:
• Screw Clamp • UL: 600V @ 85A • 4AWG • Pin Length: 4.5mm

Fig. 28 LXB 15.00/90

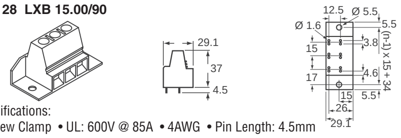

Specifications:
• Screw Clamp • UL: 600V @ 85A • 4AWG • Pin Length: 4.5mm

Fig. 29 SL 3.5/180/...G

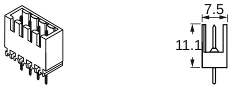

Specifications:
• UL: 300V @ 10A • Pin Length: 4.5mm

Fig. 30 SL 3.5/180/...F

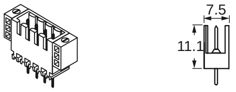

Specifications:
• UL: 300V @ 10A • Pin Length: 4.5mm

Fig. 31 SL 3.5/90/...G

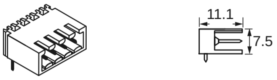

Specifications:
• UL: 300V @ 10A • Pin Length: 4.5mm

Fig. 32 SL 3.5/90/...F

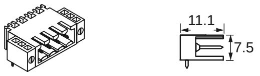

Specifications:
• UL: 300V @ 10A • Pin Length: 4.5mm

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
23	12	Black	281-1701-ND	4.20	3.78	3.36	1722500000
24	4	Orange	281-1582-ND	2.45	2.21	1.96	1764810000
	6		281-1583-ND	3.84	3.46	3.08	1764820000
	8		281-1584-ND	4.89	4.41	3.92	1764830000
	10		281-1585-ND	6.11	5.50	4.89	1764840000
	12		281-1586-ND	7.34	6.61	5.87	1764850000
	16		281-1587-ND	9.80	8.82	7.84	1764870000
	20		281-1580-ND	12.21	10.99	9.77	1758020000
	24		281-1588-ND	14.66	13.19	11.73	1764900000
25	6	Orange	281-1589-ND	3.98	3.58	3.18	1764910000
	9		281-1590-ND	5.51	4.96	4.41	1764920000
	12		281-1591-ND	7.34	6.61	5.87	1764930000
	15		281-1592-ND	7.34	6.61	5.87	1764940000
	18		281-1593-ND	11.00	9.90	8.80	1764950000
	24		281-1594-ND	14.66	13.19	11.73	1764960000
	36		281-1595-ND	21.98	19.78	17.58	1764990000
	48		281-1581-ND	29.33	26.40	23.46	1758050000
15.00mm Pin Spacing – PCB Terminal Blocks							
26	2	Grey	281-1599-ND	8.82	7.94	7.06	1783670000
	3		281-1600-ND	13.22	11.90	10.58	1783680000
	5		281-1602-ND	22.04	19.84	17.63	1806460000
27	1	Grey	281-1603-ND	5.03	4.53	4.02	1783700000
28	2	Grey	281-1604-ND	8.96	8.06	7.17	1783710000
	3		281-1605-ND	13.37	12.03	10.70	1783720000
	4		281-1606-ND	17.78	16.00	14.22	1783730000
	5		281-1607-ND	22.19	19.97	17.75	1806470000
	6		281-1608-ND	26.58	23.93	21.27	1783740000
	8		281-1609-ND	35.40	31.86	28.32	1783750000
3.5mm Pitch Omnimate – PCB Pin Headers							
29	2	Black	281-1144-ND	.57	.52	.46	1614240000
	3		281-1145-ND	.86	.77	.69	1616020000
	4		281-1146-ND	1.17	1.06	.94	1616030000
	6		281-1147-ND	1.73	1.56	1.38	1616050000
	8		281-1148-ND	2.31	2.08	1.85	1614250000
	10		281-1149-ND	2.88	2.60	2.31	1616080000
	12		281-1150-ND	3.45	3.11	2.76	1616100000
	16		281-1151-ND	4.59	4.14	3.68	1614260000
	24		281-1152-ND	6.89	6.20	5.51	1618680000
30	2	Black	281-1153-ND	.68	.61	.54	1616140000
	3		281-1154-ND	1.01	.91	.81	1616150000
	4		281-1155-ND	1.34	1.21	1.07	1616160000
	6		281-1156-ND	2.00	1.80	1.60	1616180000
30	8	Black	281-1157-ND	2.66	2.39	2.13	1614270000
	10		281-1158-ND	3.32	2.99	2.66	1616210000
	12		281-1159-ND	3.96	3.57	3.17	1616230000
	16		281-1160-ND	5.28	4.76	4.23	1616270000
	24		281-1161-ND	7.92	7.13	6.34	1618980000
31	2	Black	281-1117-ND	.57	.52	.46	1614160000
	3		281-1118-ND	.86	.77	.69	1615420000
	4		281-1119-ND	1.17	1.06	.94	1615430000
	6		281-1120-ND	1.73	1.56	1.38	1615440000
	8		281-1121-ND	2.31	2.08	1.85	1614180000
	10		281-1122-ND	2.88	2.60	2.31	1615470000
	12		281-1123-ND	3.39	3.06	2.72	1615490000
	16		281-1124-ND	4.59	4.14	3.68	1614190000
	24		281-1125-ND	6.89	6.20	5.51	1618050000
32	2	Black	281-1126-ND	.68	.61	.54	1615530000
	3		281-1127-ND	1.01	.91	.81	1615540000
	4		281-1128-ND	1.34	1.21	1.07	1615550000
	6		281-1129-ND	2.00	1.80	1.60	1615570000
	8		281-1130-ND	2.66	2.39	2.13	1614200000
	10		281-1131-ND	3.32	2.99	2.66	1615600000
	12		281-1132-ND	3.96	3.57	3.17	1615620000
3.81mm Pitch Omnimate – PCB Pin Headers							
33	2	Green	281-1948-ND	.57	.52	.46	1793610000
	3		281-1949-ND	.86	.77	.69	1793620000
	4		281-1950-ND	1.17	1.06	.94	1793630000
	5		281-1951-ND	1.44	1.30	1.16	1793640000
	6		281-1952-ND	1.73	1.56	1.38	1793650000
	8		281-1953-ND	2.31	2.08	1.85	1793660000
	10		281-1954-ND	2.88	2.60	2.31	1793670000
	12		281-1955-ND	3.45	3.11	2.76	1793680000
	16		281-1956-ND	4.59	4.14	3.68	1793690000
34	2	Green	281-1957-ND	.68	.61	.54	1793790000
	3		281-1958-ND	1.01	.91	.81	1793800000
	4		281-1959-ND	1.34	1.21	1.07	1793810000
	5		281-1960-ND	1.64	1.48	1.31	1793820000
	6		281-1961-ND	2.00	1.80	1.60	1793830000
	8		281-1962-ND	2.66	2.39	2.13	1793840000
	10		281-1963-ND	3.32	2.99	2.66	1793850000
	12		281-1964-ND	3.96	3.57	3.17	1793860000
	16		281-1965-ND	5.28	4.76	4.23	1793870000
35	2	Green	281-1930-ND	.57	.52	.46	1793240000
	3		281-1931-ND	.86	.77	.69	1793250000
	4		281-1932-ND	1.17	1.06	.94	1793260000
	5		281-1933-ND	1.44	1.30	1.16	1793270000
	6		281-1934-ND	1.73	1.56	1.38	1793280000
	8		281-1935-ND	2.31	2.08	1.85	1793290000
35	10	Green	281-1936-ND	2.88	2.60	2.31	1793300000
	12		281-1937-ND	3.39	3.06	2.72	1793310000
	16		281-1938-ND	4.59	4.14	3.68	1793320000
36	2	Green	281-1939-ND	.68	.61	.54	1793420000
	3		281-1940-ND	1.01	.91	.81	1793430000
	4		281-1941-ND	1.34	1.21	1.07	1793440000
	5		281-1942-ND	1.67	1.50	1.34	1793450000
	6		281-1943-ND	2.00	1.80	1.60	1793460000
	8		281-1944-ND	2.66	2.39	2.13	1793470000
	10		281-1945-ND	3.32	2.99	2.66	1793480000
	12		281-1946-ND	3.96	3.57	3.17	1793490000
	16		281-1947-ND	5.28	4.76	4.23	1793500000
5.00mm Pitch Omnimate – PCB Pin Headers							
37	2	Black	281-1234-ND	.49	.44	.38	1626620000
	3		281-1235-ND	.72	.65	.56	1626630000
	4		281-1236-ND	.95	.86	.74	1596130000
	6		281-1237-ND	1.38	1.24	1.07	1626650000
	8		281-1238-ND	1.89	1.69	1.46	1596140000
	10		281-1239-ND	2.30	2.07	1.78	1626680000
	12		281-1240-ND	2.81	2.52	2.17	1603310000
	16		281-1241-ND	3.76	3.37	2.90	1626730000
	24		281-1242-ND	5.49	4.92	4.23	1626810000
38	2	Black	281-1216-ND	.49	.44	.38	1626210000
	3		281-1217-ND	.72	.65	.56	1626220000
	4		281-1218-ND	.96	.87	.75	1596150000
	6		281-1219-ND	1.38	1.24	1.07	1626240000
	8		281-1220-ND	1.84	1.66	1.43	1626250000
	10		281-1221-ND	2.35	2.11	1.81	1596170000
	12		281-1222-ND	2.81	2.52	2.17	1603320000
	16		281-1223-ND	3.76	3.37	2.90	1603330000
5.08mm Pitch Omnimate – PCB Pin Headers							
39	2	Black	281-1297-ND	.49	.44	.38	1524110000
	3		281-1298-ND	.72	.65	.56	1524210000
	4		281-1299-ND	.96	.87	.75	1524310000
	6		281-1300-ND	1.43	1.28	1.10	1524510000
	8		281-1301-ND	1.89	1.69	1.46	1524710000
	10		281-1302-ND	2.35	2.11	1.81	1524910000
	12		281-1303-ND	2.81	2.52	2.17	1525110000
	16		281-1304-ND	3.76	3.37	2.90	1525510000
40	4	Black	281-1893-ND	1.82	1.64	1.46	1726970000
	6		281-1894-ND	2.73	2.46	2.19	1726980000
	8		281-1895-ND	3.63	3.27	2.91	1726990000
	10		281-1896-ND	4.55	4.10	3.64	1727000000
	12		281-1897-ND	5.45	4.91	4.36	1727010000
	16		281-1898-ND	7.25	6.53	5.80	1727030000

NOTE: All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

(Continued)

Fig. 33 SL 3.81/180G

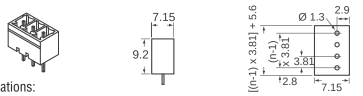

Specifications:
- UL: 300V @ 8A • Pin Length: 3.5mm

Fig. 34 SL 3.81/180F

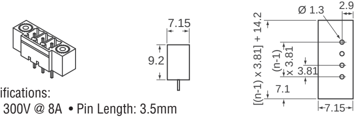

Specifications:
- UL: 300V @ 8A • Pin Length: 3.5mm

Fig. 35 SL3.81/90G

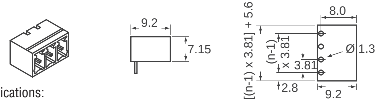

Specifications:
- UL: 300V @ 8A • Pin Length: 3.5mm

Fig. 36 SL 3.81/90F

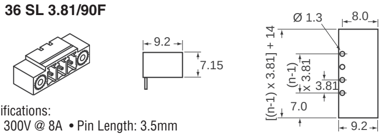

Specifications:
- UL: 300V @ 8A • Pin Length: 3.5mm

Fig. 37 SL 5.00/180/...B

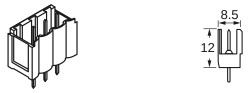

Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 38 SL 5.00/90/...B

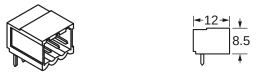

Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 39 SL 5.08/180/...B

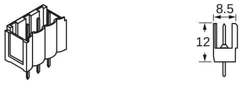

Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 40 SLD 5.08V/180B

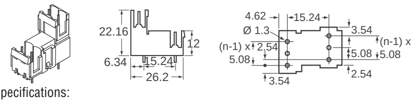

Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 41 SL 5.08/90

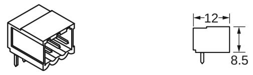

Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 42 SLD 5.08V/90B

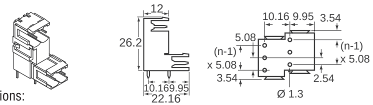

Specifications:
- UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 43 BLL 5.08/180

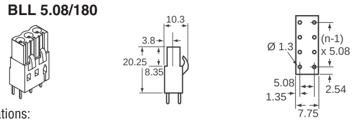

Specifications:
- Solder connection • UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 44 BLL 5.08/90

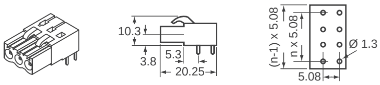

Specifications:
- Solder connection • UL: 300V @ 15A • Pin Length: 4.5mm

Fig. 45 S2L 3.5/180 - Double Density

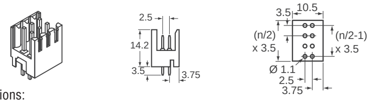

Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

Fig. 46 S2L 3.5/180G - Double Density

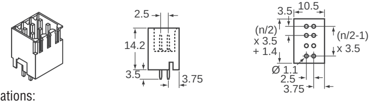

Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

Fig. 47 S2L 3.5/180F - Double Density

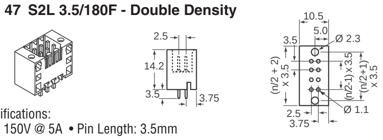

Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

Fig. 48 S2L 3.5/90 - Double Density

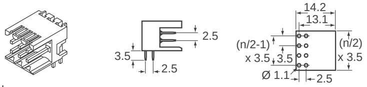

Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

Fig. 49 S2L 3.5/90G - Double Density

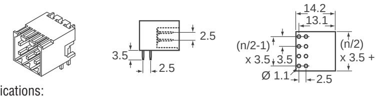

Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

Fig. 50 S2L 3.5/90F - Double Density

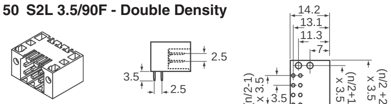

Specifications:
- UL: 150V @ 5A • Pin Length: 3.5mm

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
40	24	Black	281-1899-ND	10.88	9.79	8.70	1727070000
	32		281-1900-ND	14.52	13.07	11.62	1727110000
	48		281-1901-ND	21.77	19.59	17.42	1727190000
41	2	Black	281-1279-ND	.49	.44	.38	1514910000
	3		281-1280-ND	.72	.65	.56	1515010000
	4		281-1281-ND	.96	.87	.75	1515110000
	6		281-1282-ND	1.43	1.28	1.10	1515310000
	8		281-1283-ND	1.89	1.69	1.46	1515510000
	10		281-1284-ND	2.35	2.11	1.81	1515710000
	12		281-1285-ND	2.81	2.52	2.17	1515910000
	16		281-1286-ND	3.76	3.37	2.90	1516310000
42	4	Black	281-1884-ND	1.82	1.64	1.46	1726510000
	6		281-1885-ND	2.73	2.46	2.19	1726520000
	8		281-1886-ND	3.63	3.27	2.91	1726530000
	10		281-1887-ND	4.55	4.10	3.64	1726540000
	12		281-1888-ND	5.45	4.91	4.36	1726550000
	16		281-1889-ND	7.25	6.53	5.80	1726570000
	24		281-1890-ND	10.88	9.79	8.70	1726610000
	32		281-1891-ND	14.52	13.07	11.62	1726650000
	48		281-1892-ND	21.77	19.59	17.42	1726730000
5.08mm Pitch Omnimate – PCB Socket Headers							
43	2	Black	281-1745-ND	1.29	1.17	1.04	1646250000
	3		281-1746-ND	1.94	1.75	1.55	1646260000
	4		281-1747-ND	2.57	2.31	2.06	1646270000
	6		281-1748-ND	3.86	3.47	3.09	1646290000
	8		281-1749-ND	5.12	4.61	4.10	1646310000
	10		281-1750-ND	6.39	5.76	5.12	1646330000
	12		281-1751-ND	7.67	6.90	6.14	1646350000
	16		281-1752-ND	10.23	9.21	8.19	1649170000
	24		281-1753-ND	15.32	13.79	12.26	1649250000
44	2	Black	281-1736-ND	1.29	1.17	1.04	1646030000
	3		281-1737-ND	1.94	1.75	1.55	1646040000
	4		281-1738-ND	2.57	2.31	2.06	1646050000
	6		281-1739-ND	3.86	3.47	3.09	1646070000
	8		281-1740-ND	5.12	4.61	4.10	1646090000
	10		281-1741-ND	6.39	5.76	5.12	1646110000
	12		281-1742-ND	7.67	6.90	6.14	1646130000
	16		281-1743-ND	10.23	9.21	8.19	1648810000
	24		281-1744-ND	15.32	13.79	12.26	1648890000
3.5mm Minimate Double Density – PCB Pin Headers							
45	6	Black	281-1828-ND	1.77	1.60	1.42	1729270000
	8		281-1829-ND	2.37	2.14	1.90	1729280000
	10		281-1830-ND	2.97	2.68	2.38	1729290000
	12		281-1831-ND	3.56	3.20	2.85	1729300000

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
45	16	Black	281-1832-ND	4.73	4.26	3.78	1729320000
	20		281-1833-ND	5.91	5.32	4.73	1729340000
	24		281-1834-ND	7.08	6.38	5.67	1729360000
46	6	Black	281-1835-ND	1.77	1.60	1.42	1728950000
	8		281-1836-ND	2.37	2.14	1.90	1728960000
	10		281-1837-ND	2.97	2.68	2.38	1728970000
	12		281-1838-ND	3.56	3.20	2.85	1728980000
	16		281-1839-ND	4.73	4.26	3.78	1729000000
	20		281-1840-ND	5.91	5.32	4.73	1729020000
	24		281-1841-ND	7.08	6.38	5.67	1729040000
47	6	Black	281-1842-ND	2.31	2.08	1.85	1729590000
	8		281-1843-ND	2.90	2.61	2.32	1729600000
	10		281-1844-ND	3.50	3.15	2.80	1729610000
	12		281-1845-ND	4.07	3.66	3.26	1729620000
	16		281-1846-ND	5.25	4.73	4.20	1729640000
	20		281-1847-ND	6.42	5.78	5.14	1729660000
	24		281-1848-ND	7.62	6.86	6.10	1729680000
48	6	Black	281-1807-ND	1.77	1.60	1.42	1728310000
	8		281-1808-ND	2.37	2.14	1.90	1728320000
	10		281-1809-ND	2.97	2.68	2.38	1728330000
	12		281-1810-ND	3.56	3.20	2.85	1728340000
	16		281-1811-ND	4.73	4.26	3.78	1728360000
	20		281-1812-ND	5.91	5.32	4.73	1728380000
	24		281-1813-ND	7.08	6.38	5.67	1728400000
49	6	Black	281-1814-ND	1.77	1.60	1.42	1727990000
	8		281-1815-ND	2.37	2.14	1.90	1728000000
	10		281-1816-ND	2.97	2.68	2.38	1728010000
	12		281-1817-ND	3.56	3.20	2.85	1728020000
	16		281-1818-ND	4.73	4.26	3.78	1728040000
	20		281-1819-ND	5.91	5.32	4.73	1728060000
	24		281-1820-ND	7.08	6.38	5.67	1728080000
50	6	Black	281-1821-ND	2.31	2.08	1.85	1728630000
	8		281-1822-ND	2.90	2.61	2.32	1728640000
	10		281-1823-ND	3.50	3.15	2.80	1728650000
	12		281-1824-ND	4.07	3.66	3.26	1728660000
	16		281-1825-ND	5.25	4.73	4.20	1728680000
	20		281-1826-ND	6.42	5.78	5.14	1728700000
	24		281-1827-ND	7.62	6.86	6.10	1728720000
3.50mm Minimate Double Density – Socket Blocks							
51	6	Black	281-1849-ND	5.49	4.95	4.40	1727640000
	8		281-1850-ND	7.31	6.58	5.85	1727650000
	10		281-1851-ND	9.12	8.21	7.30	1727660000
	12		281-1852-ND	10.92	9.83	8.74	1727670000

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
51	16	Black	281-1853-ND	14.60	13.14	11.68	1727690000
	20		281-1854-ND	18.21	16.39	14.57	1727710000
	24		281-1855-ND	21.84	19.66	17.48	1747940000
52	6	Black	281-1856-ND	5.76	5.19	4.61	1748170000
	8		281-1857-ND	7.80	7.02	6.24	1748180000
	10		281-1858-ND	9.74	8.77	7.79	1748190000
	12		281-1859-ND	11.70	10.53	9.36	1748200000
	16		281-1860-ND	15.60	14.04	12.48	1748220000
	20		281-1861-ND	19.47	17.53	15.58	1748240000
	24		281-1862-ND	23.40	21.06	18.72	1748260000
53	6	Black	281-1863-ND	7.04	6.34	5.63	1748490000
	8		281-1864-ND	9.02	8.12	7.22	1748500000
	10		281-1865-ND	10.98	9.89	8.79	1748510000
	12		281-1866-ND	12.99	11.70	10.40	1748520000
	16		281-1867-ND	16.97	15.27	13.58	1748540000
	20		281-1868-ND	20.96	18.86	16.77	1748560000
	24		281-1869-ND	24.95	22.46	19.96	1748580000
3.50mm Omnimate – Socket Blocks							
54	2	Black	281-1054-ND	1.70	1.53	1.36	1615670000
	3		281-1055-ND	2.52	2.27	2.02	1615680000
	4		281-1056-ND	3.36	3.03	2.69	1615690000
	6		281-1057-ND	5.07	4.57	4.06	1610180000
	8		281-1058-ND	6.75	6.08	5.40	1615700000
	10		281-1059-ND	8.43	7.59	6.75	1610200000
	12		281-1060-ND	10.11	9.10	8.09	1615730000
	16		281-1061-ND	13.47	12.13	10.78	1615770000
	24		281-1062-ND	20.18	18.16	16.14	1620440000
55	2	Black	281-1063-ND	1.77	1.60	1.42	1615780000
	3		281-1064-ND	2.66	2.39	2.13	1615790000
	4		281-1065-ND	3.54	3.19	2.84	1615800000
	6		281-1066-ND	5.33	4.80	4.26	1615820000
	8		281-1067-ND	7.20	6.48	5.76	1615840000
	10		281-1068-ND	9.02	8.12	7.22	1615860000
	12		281-1069-ND	10.82	9.74	8.66	1615880000
	16		281-1070-ND	14.42	12.98	11.54	1615920000
	24		281-1071-ND	21.62	19.46	17.30	1620910000
56	2	Black	281-1018-ND	1.77	1.60	1.42	1638780000
	3		281-1019-ND	2.66	2.39	2.13	1638790000
	4		281-1020-ND	3.54	3.19	2.84	1638800000
	6		281-1021-ND	5.31	4.78	4.25	1638820000
	8		281-1022-ND	7.07	6.36	5.66	1638840000
	10		281-1023-ND	8.84	7.96	7.07	1638860000
	12		281-1024-ND	10.61	9.55	8.49	1638880000
	16		281-1025-ND	14.13	12.72	11.31	1638920000
	24		281-1026-ND	21.20	19.08	16.96	1639000000

NOTE: All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

(Continued)

Fig. 51 B2L 3.5

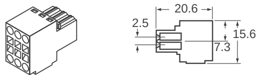

Specifications:
- Tension Clamp • UL: 150V @ 5A • 16AWG

Fig. 52 B2L 3.5F

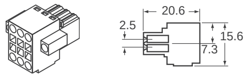

Specifications:
- Tension Clamp • UL: 150V @ 5A • 16AWG

Fig. 53 B2L 3.5LH

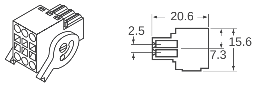

Specifications:
- Tension Clamp • UL: 150V @ 5A • 16AWG

Fig. 54 BL 3.5

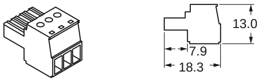

Specifications:
- Screw Clamp • UL: 300V @ 10A • 14AWG

Fig. 55 BL 3.5/...F

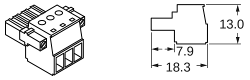

Specifications:
- Screw Clamp • UL: 300V @ 10A • 14AWG

Fig. 56 BL 3.5/90

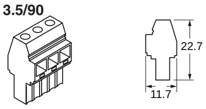

Specifications:
- Screw Clamp • UL: 300V @ 10A • 14AWG

Fig. 57 BL 3.5/270

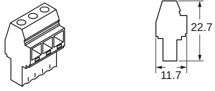

Specifications:
- Screw Clamp • UL: 300V @ 10A • 14AWG

Fig. 58 BLIDC 3.5

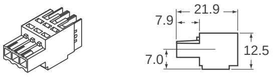

Specifications:
- IDC connection • UL: 300V @ 7A • 20AWG

Fig. 59 BLIDC 3.5F

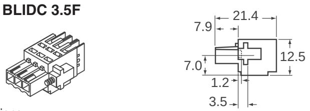

Specifications:
- IDC connection • UL: 300V @ 7A • 20AWG

Fig. 60 BL-I/O 3.5/10F

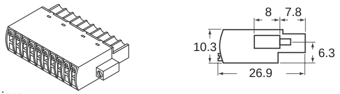

Specifications:
- Push-In Spring connection • UL: 50V @ 5A • 16AWG

Fig. 61 BL-I/O 3.5/10F LED

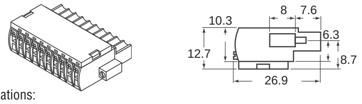

Specifications:
- Push-In Spring connection • UL: 24V @ 5A • 16AWG • Integrated LEDs

Fig. 62 BL-I/O 3.5/10FP

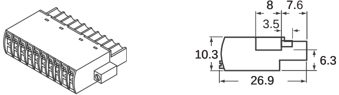

Specifications: • Field device connector • Push-in Spring connection
- UL: 50V @ 5A • 16AWG • Offset Flanges

Fig. 63 BL-I/O 3.5/10FP LED

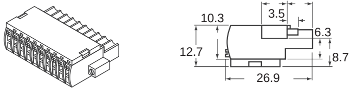

Specifications: • Field device connector • Push-in Spring connection
- UL: 24V @ 5A • 16AWG • Offset Flanges • Integrated LEDs

Fig. 64 BL-I/O 3.5/30F

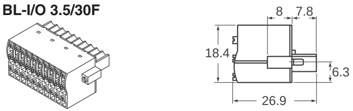

Specifications: • Field device connector • Push-in Spring connection
- UL: 50V @ 5A • 16AWG

Fig. 65 BL-I/O 3.5/30F LED

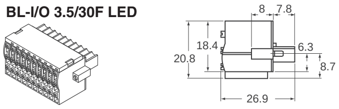

Specifications: • Field device connector • Push-in Spring connection
- UL: 24V @ 5A • 16AWG • Integrated LEDs

Fig. 66 BL-I/O 3.5/30 FP

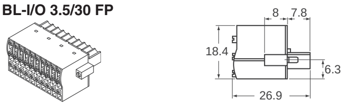

Specifications: • Field device connector • Push-in Spring connection
- UL: 50V @ 5A • 16AWG • Offset Flanges

Fig. 67 BL-I/O 3.5/30FP LED

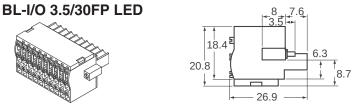

Specifications: • Field device connector • Push-in Spring connection
- UL: 24V @ 5A • 16AWG • Offset Flanges • Integrated LEDs

Fig. 68 BL3.81

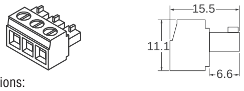

Specifications:
- Clamping Yoke • UL 300V @ 8A • 16AWG

Fig. 69 BL 3.81F

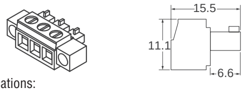

Specifications:
- Clamping Yoke • UL: 300V @ 8A • 16AWG

Fig. 70 BL 3.81/90

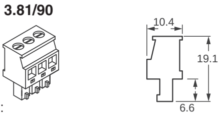

Specifications:
- Clamping Yoke • UL 300V @ 8A • 16AWG

Fig. 71 BL 3.81/90F

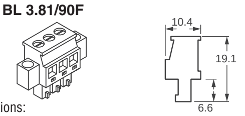

Specifications:
- Clamping Yoke • UL: 300V @ 8A • 16AWG

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
57	2	Black	281-1036-ND	1.77	1.60	1.42	1639700000
	3		281-1037-ND	2.66	2.39	2.13	1639710000
	4		281-1038-ND	3.54	3.19	2.84	1639720000
	6		281-1039-ND	5.31	4.78	4.25	1639740000
	8		281-1040-ND	7.07	6.36	5.66	1639760000
	10		281-1041-ND	8.84	7.96	7.07	1639780000
	12		281-1042-ND	10.61	9.55	8.49	1639800000
	16		281-1043-ND	14.13	12.72	11.31	1639840000
	24		281-1044-ND	21.20	19.08	16.96	1639920000
58	2	Black	281-1702-ND	2.01	1.81	1.61	1770940000
	3		281-1703-ND	3.00	2.70	2.40	1770950000
	4		281-1704-ND	4.01	3.61	3.21	1770960000
	6		281-1705-ND	6.02	5.42	4.82	1770980000
	8		281-1706-ND	8.01	7.21	6.41	1771000000
	10		281-1707-ND	10.01	9.01	8.01	1771020000
	12		281-1708-ND	12.02	10.82	9.62	1771040000
	16		281-1709-ND	16.01	14.41	12.81	1771080000
	2	Black	281-1718-ND*	2.10	1.89	1.68	1770670000
	3		281-1719-ND*	3.15	2.84	2.52	1770680000
	4		281-1720-ND*	4.22	3.80	3.38	1770690000
	6		281-1721-ND*	6.30	5.67	5.04	1770710000
	8		281-1722-ND*	8.40	7.56	6.72	1770730000
59	2	Black	281-1710-ND	2.16	1.95	1.73	1771090000
	3		281-1711-ND	3.24	2.92	2.60	1771100000
	4		281-1712-ND	4.28	3.85	3.42	1771110000
	6		281-1713-ND	6.42	5.78	5.14	1771130000
	8		281-1714-ND	8.57	7.71	6.86	1771150000
	10		281-1715-ND	10.71	9.64	8.57	1771170000
	12		281-1716-ND	12.86	11.57	10.29	1771190000
	16		281-1717-ND	17.15	15.44	13.72	1771230000
	2	Black	281-1723-ND*	2.27	2.04	1.82	1770740000
	3		281-1724-ND*	3.39	3.06	2.72	1770750000
	4		281-1725-ND*	4.50	4.05	3.60	1770760000
	6		281-1726-ND*	6.74	6.07	5.39	1770780000
	8		281-1727-ND*	8.81	7.93	7.05	1770800000
3.50 mm Omnimate – BLI/O Socket Blocks							
60	10	Black	281-1803-ND	7.41	6.67	5.93	1779880000
61	10	Black	281-1804-ND	23.57	21.21	18.86	1789090000
62	10	Black	281-1805-ND	7.41	6.67	5.93	1779870000
63	10	Black	281-1806-ND	23.57	21.21	18.86	1789080000
64	30	Black	281-1799-ND	31.47	28.33	25.18	1779920000
65	30	Black	281-1800-ND	47.64	42.88	38.12	1789110000
66	30	Black	281-1801-ND	31.47	28.33	25.18	1779910000
67	30	Black	281-1802-ND	47.64	42.88	38.12	1789100000
3.81mm Omnimate – Socket Blocks							
68	2	Green	281-1912-ND	1.67	1.50	1.34	1792860000
	3		281-1913-ND	2.48	2.23	1.98	1792870000
	4		281-1914-ND	3.30	2.97	2.64	1792880000
	5		281-1915-ND	4.13	3.72	3.30	1792890000
	6		281-1916-ND	4.97	4.47	3.98	1792900000
	8		281-1917-ND	6.62	5.96	5.30	1792910000
	10		281-1918-ND	8.28	7.46	6.63	1792920000
	12		281-1919-ND	9.92	8.93	7.94	1792930000
	16		281-1920-ND	13.22	11.90	10.58	1792940000
69	2	Green	281-1921-ND	1.74	1.57	1.40	1793040000
	3		281-1922-ND	2.61	2.35	2.09	1793050000
	4		281-1923-ND	3.47	3.12	2.78	1793060000
	5		281-1924-ND	4.44	4.00	3.56	1793070000
	6		281-1925-ND	5.22	4.70	4.18	1793080000
	8		281-1926-ND	7.07	6.36	5.66	1793090000
	10		281-1927-ND	8.85	7.97	7.08	1793100000
	12		281-1928-ND	10.61	9.55	8.49	1793110000
	16		281-1929-ND	14.15	12.74	11.32	1793120000
70	2	Green	281-1966-ND	1.74	1.57	1.40	1798680000
	3		281-1967-ND	2.61	2.35	2.09	1798690000
	4		281-1968-ND	3.47	3.12	2.78	1798710000
	5		281-1969-ND	4.34	3.91	3.47	1798720000
	6		281-1970-ND	5.21	4.69	4.17	1798730000
	8		281-1971-ND	6.93	6.24	5.55	1798740000
	10		281-1972-ND	8.67	7.81	6.94	1798750000
	12		281-1973-ND	10.40	9.36	8.32	1798760000
	16		281-1974-ND	13.86	12.48	11.09	1798770000
71	2	Green	281-1975-ND	1.86	1.68	1.49	1798850000
	3		281-1976-ND	2.79	2.52	2.24	1798860000
	4		281-1977-ND	3.71	3.34	2.97	1798870000
	5		281-1978-ND	4.64	4.18	3.71	1798880000
	6		281-1979-ND	5.57	5.01	4.46	1798890000
	8		281-1980-ND	7.41	6.67	5.93	1798900000
	10		281-1981-ND	9.29	8.36	7.43	1798910000
	12		281-1982-ND	11.15	10.04	8.92	1798920000
	16		281-1983-ND	14.85	13.37	11.88	1798930000
72	2	Green	281-1984-ND	1.74	1.57	1.40	1799010000
	3		281-1985-ND	2.61	2.35	2.09	1799020000
	4		281-1986-ND	3.47	3.12	2.78	1799030000
	5		281-1987-ND	4.34	3.91	3.47	1799040000
	6		281-1988-ND	5.21	4.69	4.17	1799050000
	8		281-1989-ND	6.93	6.24	5.55	1799060000
	10		281-1990-ND	8.67	7.81	6.94	1799070000
	12		281-1991-ND	10.40	9.36	8.32	1799080000
	16		281-1992-ND	13.86	12.48	11.09	1799090000
73	2	Green	281-1993-ND	1.86	1.68	1.49	1799170000
	3		281-1994-ND	2.79	2.52	2.24	1799180000
	4		281-1995-ND	3.71	3.34	2.97	1799190000
	5		281-1996-ND	4.64	4.18	3.71	1799200000
	6		281-1997-ND	5.57	5.01	4.46	1799210000
	8		281-1998-ND	7.41	6.67	5.93	1799220000
	10		281-1999-ND	9.29	8.36	7.43	1799230000
	12		281-2000-ND	11.15	10.04	8.92	1799240000
	16		281-2001-ND	14.85	13.37	11.88	1799250000
5.00mm Omnimate – Socket Blocks							
74	2	Black	281-1180-ND	1.28	1.15	.99	1625610000
	3		281-1181-ND	1.90	1.71	1.47	1625620000
	4		281-1182-ND	2.51	2.25	1.94	1596080000
	6		281-1183-ND	3.76	3.37	2.90	1596090000
	8		281-1184-ND	5.10	4.57	3.93	1596110000
	10		281-1185-ND	6.35	5.69	4.90	1596120000
	12		281-1186-ND	8.28	7.42	6.39	1602990000
	16		281-1187-ND	11.06	9.91	8.53	1603300000
	24		281-1188-ND	16.55	14.83	12.76	1611470000
75	2	Black	281-1189-ND	1.41	1.27	1.09	1636890000
	3		281-1190-ND	2.17	1.95	1.68	1636900000
	4		281-1191-ND	2.88	2.58	2.22	1636910000
	6		281-1192-ND	4.20	3.77	3.25	1636930000
	8		281-1193-ND	5.63	5.05	4.35	1636950000
	10		281-1194-ND	7.00	6.27	5.40	1636970000
	12		281-1195-ND	8.38	7.51	6.47	1636990000
	16		281-1196-ND	11.17	10.01	8.62	1637030000
5.08mm Omnimate – Socket Blocks							
76	2	Black	281-1243-ND	1.31	1.18	1.02	1526410000
	3		281-1244-ND	1.97	1.77	1.53	1526510000
	4		281-1245-ND	2.61	2.34	2.01	1526610000
	6		281-1246-ND	3.89	3.49	3.00	1526810000
	8		281-1247-ND	5.20	4.66	4.01	1527010000
	10		281-1248-ND	6.48	5.81	5.00	1527210000
	12		281-1249-ND	7.76	6.96	5.99	1527410000
	16		281-1250-ND	10.12	9.07	7.81	1527810000
	24		281-1251-ND	15.52	13.91	11.97	1528610000
77	2	Black	281-1902-ND	4.01	3.61	3.21	1499510000
	3		281-1903-ND	6.00	5.40	4.80	1499610000
	4		281-1904-ND	8.00	7.20	6.40	1499710000
	5		281-1905-ND	9.98	8.98	7.98	1499810000
	6		281-1906-ND	12.21	10.99	9.77	1499910000
	8		281-1907-ND	15.92	14.33	12.74	1500110000
	10		281-1908-ND	19.91	17.92	15.93	1500310000
	12		281-1909-ND	24.41	21.97	19.53	1500510000
	16		281-1910-ND	31.82	28.64	25.46	1500910000
	24		281-1911-ND	50.21	45.19	40.17	1501710000

* Bus Version

NOTE: All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

(Continued)

SL-SMT Series: • Stable at 500°F (260°C) compatible with all reflow soldering processes
• Pick and place compatible • 10 times greater strength than standard "Gull Wing" SMT pins

Fig. 72 BL 3.81/270

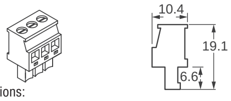

Specifications:
• Clamping Yoke • UL: 300V @ 8A •16AWG

Fig. 73 BL 3.81/270F

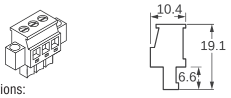

Specifications:
• Clamping Yoke • UL: 300V @ 8A •16AWG

Fig. 74 BLZ 5.00

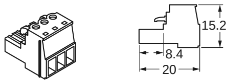

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG

Fig. 75 BLZ 5.00/90

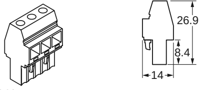

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG

Fig. 76 BLZ 5.08

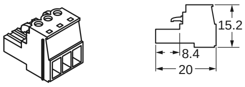

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG

Fig. 77 BLT 5.08/180

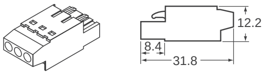

Specifications:
• Top connection • UL 300V @ 15A • 12AWG

Fig. 78 BLZ 5.08/90

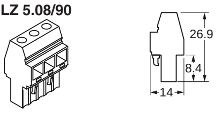

Specification:
• Screw Clamp • UL: 300V @ 15A • 12AWG

Fig. 79 BLZ 5.08/270

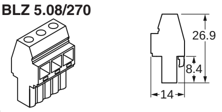

Specifications:
• Screw Clamp • UL: 300V @ 15A • 12AWG

Fig. 80 BLIDC 5.08

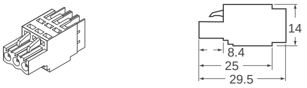

Specifications:
• IDC connection • UL: 300V @ 8A • 20AWG

Fig. 81 SLZF 5.08/180

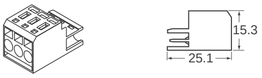

Specifications:
• Tension Clamp • UL: 300V @ 10A • 12AWG

Fig. 82 SL-SMT 3.5/180G

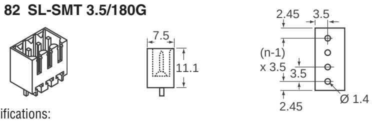

Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 10A • Pin Length: 1.5mm

Fig. 83 SL-SMT 3.5/180LF

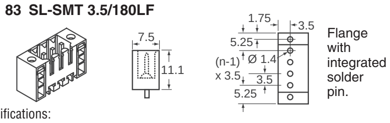

Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 10A • Pin Length: 1.5mm

Fig. 84 SL-SMT 3.5/90G

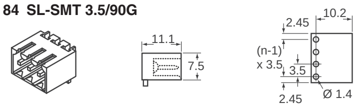

Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 10A • Pin Length: 1.5mm

Fig. 85 SL-SMT 3.5/90LF

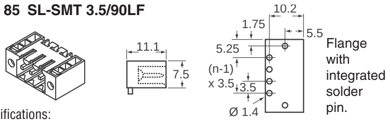

Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 10A • Pin Length: 1.5mm

Fig. 86 SL-SMT 5.08/180

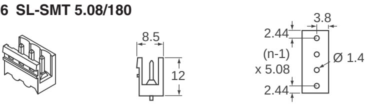

Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

Fig. 87 SL-SMT 5.08/180G

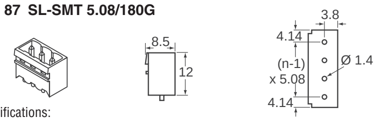

Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

Fig. 88 SL-SMT 5.08/180LF

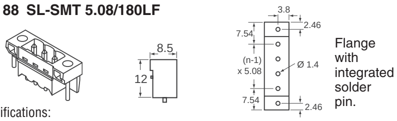

Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

Fig. 89 SL-SMT 5.08/90

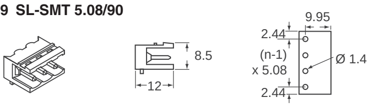

Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

Fig. 90 SL-SMT 5.08/90G

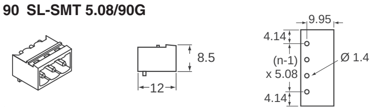

Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

Fig. 91 SL-SMT 5.08/90LF

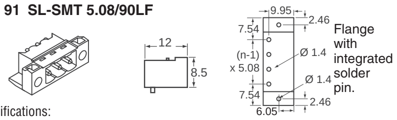

Specifications:
• Thru-hole Reflow Solder connection • UL: 300V @ 15A • Pin Length: 1.5mm

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
78	2	Black	281-1252-ND	1.50	1.35	1.16	1552710000
	3		281-1253-ND	2.22	1.99	1.71	1552810000
	4		281-1254-ND	2.94	2.64	2.27	1552910000
	6		281-1255-ND	4.38	3.93	3.38	1553110000
	8		281-1256-ND	5.85	5.24	4.51	1553310000
	10		281-1257-ND	7.30	6.54	5.63	1553510000
	12		281-1258-ND	8.74	7.83	6.74	1553710000
	16		281-1259-ND	11.65	10.44	8.98	1554110000
	24		281-1260-ND	17.34	15.54	13.37	1554910000
79	2	Black	281-1261-ND	1.44	1.29	1.11	1557310000
	3		281-1262-ND	2.16	1.94	1.67	1557410000
	4		281-1263-ND	2.94	2.64	2.27	1557510000
	6		281-1264-ND	4.29	3.85	3.31	1557710000
	8		281-1265-ND	5.85	5.24	4.51	1557910000
	10		281-1266-ND	7.13	6.39	5.50	1558110000
	12		281-1267-ND	8.74	7.83	6.74	1558310000
	16		281-1268-ND	11.65	10.44	8.98	1558710000
80	2	Black	281-1728-ND	1.98	1.79	1.59	1759390000
	3		281-1729-ND	2.97	2.68	2.38	1759400000
	4		281-1730-ND	3.96	3.57	3.17	1759410000
	6		281-1731-ND	5.93	5.34	4.74	1759430000
	8		281-1732-ND	7.91	7.12	6.33	1759450000
	10		281-1733-ND	9.89	8.90	7.91	1759470000
	12		281-1734-ND	11.84	10.66	9.47	1759490000

5.08mm Omnimate – Pin Plugs

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Weidmüller Part No.
81	2	Black	281-1790-ND	1.80	1.62	1.44	1709600000
	3		281-1791-ND	2.33	2.10	1.86	1709610000
	4		281-1792-ND	2.84	2.56	2.27	1709620000
	6		281-1793-ND	3.86	3.47	3.09	1709640000
	8		281-1794-ND	5.00	4.50	4.00	1709660000
	10		281-1795-ND	6.02	5.42	4.82	1709680000
	12		281-1796-ND	7.04	6.34	5.63	1709700000
	16		281-1797-ND	8.99	8.09	7.19	1709740000
	24		281-1798-ND	13.23	11.91	10.59	1709820000

3.5mm Omnimate – SMT Compatible PCB Pin Headers

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Weidmüller Part No.
82	2	Black	281-1772-ND	.66	.60	.53	1752982001
	3		281-1773-ND	.99	.90	.80	1752992001
	4		281-1774-ND	1.34	1.21	1.07	1753002001
	6		281-1775-ND	2.00	1.80	1.60	1753022001
	8		281-1776-ND	2.60	2.34	2.08	1753042001
	10		281-1777-ND	3.29	2.96	2.63	1753062001
	12		281-1778-ND	3.89	3.50	3.11	1753082001
	16		281-1779-ND	5.27	4.74	4.22	1753122001
	24		281-1780-ND	7.74	6.97	6.20	1753202001

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each			Weidmüller Part No.
				1	10	100	
83	2	Black	281-1781-ND	.78	.71	.63	1760962001
	3		281-1782-ND	1.19	1.07	.95	1760972001
	4		281-1783-ND	1.52	1.37	1.22	1760982001
	6		281-1784-ND	2.28	2.06	1.83	1761002001
	8		281-1785-ND	3.05	2.75	2.44	1761022001
	10		281-1786-ND	3.78	3.41	3.03	1761042001
	12		281-1787-ND	4.53	4.08	3.63	1761062001
	16		281-1788-ND	6.06	5.46	4.85	1761102001
	24		281-1789-ND	9.05	8.15	7.24	1761182001
84	2	Black	281-1754-ND	.66	.60	.53	1761542001
	3		281-1755-ND	.99	.90	.80	1761552001
	4		281-1756-ND	1.34	1.21	1.07	1761562001
	6		281-1757-ND	2.00	1.80	1.60	1761582001
	8		281-1758-ND	2.60	2.34	2.08	1761602001
	10		281-1759-ND	3.29	2.96	2.63	1761622001
	12		281-1760-ND	3.89	3.50	3.11	1761642001
	16		281-1761-ND	5.27	4.74	4.22	1761682001
	24		281-1762-ND	7.74	6.97	6.20	1761762001
85	2	Black	281-1763-ND	.78	.71	.63	1762002001
	3		281-1764-ND	1.19	1.07	.95	1762012001
	4		281-1765-ND	1.52	1.37	1.22	1762022001
	6		281-1766-ND	2.28	2.06	1.83	1762042001
	8		281-1767-ND	3.05	2.75	2.44	1762062001
	10		281-1768-ND	3.78	3.41	3.03	1762082001
	12		281-1769-ND	4.53	4.08	3.63	1762102001
	16		281-1770-ND	6.06	5.46	4.85	1762142001
	24		281-1771-ND	9.05	8.15	7.24	1762222001

5.08mm Omnimate – SMT Compatible PCB Pin Headers

Fig.	No. of Poles	Color	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Weidmüller Part No.
86	2	Black	281-1610-ND	.56	.50	.45	1775522001
	3		281-1611-ND	.83	.75	.66	1775572001
	4		281-1612-ND	1.10	.99	.88	1775592001
	5		281-1613-ND	1.37	1.23	1.10	1775632001
	6		281-1614-ND	1.64	1.48	1.31	1775642001
	8		281-1615-ND	2.15	1.94	1.72	1775662001
	10		281-1616-ND	2.70	2.43	2.16	1775682001
	12		281-1617-ND	3.23	2.91	2.58	1775702001
	16		281-1618-ND	4.31	3.88	3.45	1775742001
	24		281-1619-ND	6.27	5.65	5.02	1775822001
87	2	Black	281-1620-ND	.56	.50	.45	1775922001
	3		281-1621-ND	.83	.75	.66	1775932001
	4		281-1622-ND	1.10	.99	.88	1775942001
	5		281-1623-ND	1.37	1.23	1.10	1775952001
	6		281-1624-ND	1.64	1.48	1.31	1775962001
	8		281-1625-ND	2.15	1.94	1.72	1775982001
87	10	Black	281-1626-ND	2.70	2.43	2.16	1776002001
	12		281-1627-ND	3.23	2.91	2.58	1776022001
	16		281-1628-ND	4.31	3.88	3.45	1776272001
	24		281-1629-ND	6.27	5.65	5.02	1776352001
88	2	Black	281-1630-ND	.90	.81	.72	1776362001
	3		281-1631-ND	1.10	.99	.88	1776372001
	4		281-1632-ND	1.34	1.21	1.07	1776382001
	5		281-1633-ND	1.56	1.41	1.25	1776392001
	6		281-1634-ND	1.80	1.62	1.44	1776402001
	8		281-1635-ND	2.37	2.14	1.90	1776422001
	10		281-1636-ND	2.97	2.68	2.38	1776442001
	12		281-1637-ND	3.54	3.19	2.84	1776462001
	16		281-1638-ND	4.73	4.26	3.78	1776502001
	24		281-1639-ND	6.90	6.21	5.52	1776592001
89	2	Black	281-1640-ND	.56	.50	.45	1774762001
	3		281-1641-ND	.83	.75	.66	1774772001
	4		281-1642-ND	1.10	.99	.88	1774782001
	5		281-1643-ND	1.37	1.23	1.10	1774792001
	6		281-1644-ND	1.64	1.48	1.31	1774802001
	8		281-1645-ND	2.15	1.94	1.72	1774822001
	10		281-1646-ND	2.70	2.43	2.16	1774842001
	12		281-1647-ND	3.23	2.91	2.58	1774862001
	16		281-1648-ND	4.31	3.88	3.45	1774902001
	24		281-1649-ND	6.27	5.65	5.02	1774982001
90	2	Black	281-1660-ND	.56	.50	.45	1775002001
	3		281-1661-ND	.83	.75	.66	1775012001
	4		281-1662-ND	1.10	.99	.88	1775022001
	5		281-1663-ND	1.37	1.23	1.10	1775032001
	6		281-1664-ND	1.64	1.48	1.31	1775042001
	8		281-1665-ND	2.15	1.94	1.72	1775062001
	10		281-1666-ND	2.70	2.43	2.16	1775082001
	12		281-1667-ND	3.23	2.91	2.58	1775102001
	16		281-1668-ND	4.31	3.88	3.45	1775142001
	24		281-1669-ND	6.27	5.65	5.02	1775222001
91	2	Black	281-1650-ND	.90	.81	.72	1775232001
	3		281-1651-ND	1.10	.99	.88	1775242001
	4		281-1652-ND	1.34	1.21	1.07	1775252001
	5		281-1653-ND	1.56	1.41	1.25	1775262001
	6		281-1654-ND	1.80	1.62	1.44	1775272001
	8		281-1655-ND	2.37	2.14	1.90	1775292001
	10		281-1656-ND	2.97	2.68	2.38	1775312001
	12		281-1657-ND	3.54	3.19	2.84	1775332001
	16		281-1658-ND	4.73	4.26	3.78	1775372001
	24		281-1659-ND	6.90	6.21	5.52	1775452001

NOTE: All Omnimate pin headers mate with Omnimate socket blocks. All Minimate pin headers mate with Minimate socket blocks.

AMERICAN ELECTRICAL INC.

DIN Rail

Features: • Steel Design • CE Approved • Zinc Plated • No Markings on Rail

Unslotted
7.55mm x 35mm

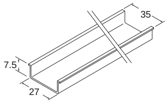

Slotted
7.55mm x 35mm

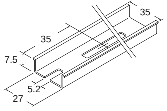

Unslotted
15mm x 35mm

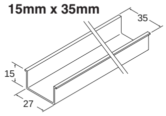

Slotted
15mm x 35mm

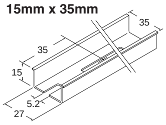

Sold in 1" increments from 3" to 78".

Call for custom lengths and pricing!

Note: Lengths exceeding 48" may incur additional shipping charges.

PART NUMBERING SYSTEM

ADR□□□□-□□□□□-ND

A = AMERICAN ELECTRICAL INC
DR = DIN RAIL
Width and height in MM
3575 = 35MM X 7.55MM
3515 = 35MM X 15MM
S = Slotted
U = Unslotted
Length in inches with an implied decimal point after the second digit. Example: 3 IN = 0300

Length (In.)	Digi-Key Part No.	"U" Price Each 1	10	100	"S" Price Each 1	10	100
	U = Unslotted S = Slotted						
3	ADR3575-□0300-ND	1.44	1.08	.75	1.44	1.08	.75
4	ADR3575-□0400-ND	1.61	1.22	.88	1.61	1.22	.88
5	ADR3575-□0500-ND	1.63	1.26	.94	1.63	1.26	.94
6	ADR3575-□0600-ND	1.88	1.45	1.09	1.88	1.45	1.09
7	ADR3575-□0700-ND	2.15	1.66	1.25	2.15	1.66	1.25
8	ADR3575-□0800-ND	2.40	1.87	1.40	2.40	1.87	1.40
9	ADR3575-□0900-ND	2.65	2.07	1.55	2.65	2.07	1.55
10	ADR3575-□1000-ND	2.89	2.25	1.69	2.89	2.25	1.69
11	ADR3575-□1100-ND	3.11	2.44	1.83	3.11	2.44	1.83
12	ADR3575-□1200-ND	3.32	2.61	1.96	3.32	2.61	1.96
24	ADR3575-□2400-ND	5.02	4.02	3.02	5.02	4.02	3.02
36	ADR3575-□3600-ND	6.57	5.26	3.98	6.57	5.26	3.98
48	ADR3575-□4800-ND	7.97	6.38	4.88	7.97	6.38	4.88
—	ADR3575-□7874-ND*	11.12	8.75	6.84	11.12	8.75	6.84

Length (In.)	Digi-Key Part No.	"U" Price Each 1	10	100	"S" Price Each 1	10	100
	U = Unslotted S = Slotted						
3	ADR3515-□0300-ND	1.51	1.14	.80	1.51	1.14	.80
4	ADR3515-□0400-ND	1.64	1.25	.91	1.64	1.25	.91
5	ADR3515-□0500-ND	1.74	1.34	1.01	1.74	1.34	1.01
6	ADR3515-□0600-ND	2.05	1.58	1.19	2.05	1.58	1.19
7	ADR3515-□0700-ND	2.34	1.81	1.36	2.34	1.81	1.36
8	ADR3515-□0800-ND	2.61	2.03	1.53	2.61	2.03	1.53
9	ADR3515-□0900-ND	2.87	2.24	1.68	2.87	2.24	1.68
10	ADR3515-□1000-ND	3.12	2.44	1.83	3.12	2.44	1.83
11	ADR3515-□1100-ND	3.35	2.63	1.98	3.35	2.63	1.98
12	ADR3515-□1200-ND	3.57	2.81	2.11	3.57	2.81	2.11
24	ADR3515-□2400-ND	5.20	4.16	3.12	5.20	4.16	3.12
36	ADR3515-□3600-ND	7.05	5.65	4.28	7.05	5.65	4.28
48	ADR3515-□4800-ND	8.43	6.75	5.19	8.43	6.75	5.19
—	ADR3515-□7874-ND*	11.78	9.21	7.25	11.78	9.21	7.25

Note: □ S = Slotted, U = Unslotted **Note:** Sold in 1" increments from 3 to 78". Call for custom lengths and pricing! * 2 meter length

Crimp Wire Ferrules For Use with European Style Terminal Blocks

CE

Wire Ferrules – Insulated

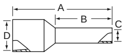

Material: Copper/Plastic. Surface: Tin-plated.

Size mm²	AWG	Type	Color Code	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	50	100	AE Part No.
0.14	26	DIN	Gray	10.5	6	0.8	2.0	288-1001-ND*	2.32	10.15	17.40	1161014
				12.5	8	0.8	2.0	288-1002-ND*	2.48	10.85	18.60	1181014
		W	Gray	10.5	6	0.8	2.0	288-1039-ND*	2.32	10.15	17.40	1162014
0.25	24	DIN	Yellow	10.5	6	0.8	2.0	288-1003-ND*	2.32	10.15	17.40	11610025
				12.5	8	0.8	2.0	288-1004-ND*	2.48	10.85	18.60	11810025
		W	Blue	10.5	6	0.8	2.0	288-1041-ND*	2.32	10.15	17.40	11620025
				12.5	8	0.8	2.0	288-1042-ND*	2.48	10.85	18.60	11820025
0.34	22	DIN	Turquoise	10.5	6	0.8	2.0	288-1005-ND*	2.32	10.15	17.40	1161034
				12.5	8	0.8	2.0	288-1006-ND*	2.48	10.85	18.60	1181034
		W	Turquoise	10.5	6	0.8	2.0	288-1043-ND*	2.32	10.15	17.40	1162034
				12.5	8	0.8	2.0	288-1044-ND*	2.48	10.85	18.60	1182034
0.50	20	DIN	White	11.5	6	1.1	2.5	288-1007-ND	1.68	7.35	12.60	1161050
				13.5	8	1.1	2.5	288-1008-ND	1.20	5.25	9.00	1181050
				15.5	10	1.1	2.5	288-1009-ND	1.68	7.35	12.60	11101050
		W	Orange	11.5	6	1.1	2.5	288-1045-ND	1.68	7.35	12.60	1162050
				13.5	8	1.1	2.5	288-1046-ND	1.20	5.25	9.00	1182050
				15.5	10	1.1	2.5	288-1047-ND	1.68	7.35	12.60	11102050
0.75	20	DIN	Gray	12.0	6	1.3	2.8	288-1010-ND	1.76	7.70	13.20	1161075
				14.0	8	1.3	2.8	288-1011-ND	1.20	5.25	9.00	1181075
				16.0	10	1.3	2.8	288-1012-ND	1.76	7.70	13.20	11101075
				18.0	12	1.3	2.8	288-1013-ND	1.76	7.70	13.20	11121075
		W	White	12.0	6	1.3	2.8	288-1048-ND	1.76	7.70	13.20	1162075
				14.0	8	1.3	2.8	288-1049-ND	1.20	5.25	9.00	1182075
1.00	18	DIN	Red	12.5	6	1.5	3.0	288-1014-ND	2.00	8.75	15.00	1161010
				14.5	8	1.5	3.0	288-1015-ND	1.28	5.60	9.60	1181010
				16.5	10	1.5	3.0	288-1016-ND	2.00	8.75	15.00	11101010
		W	Yellow	12.5	6	1.5	3.0	288-1052-ND	2.00	8.75	15.00	1162010
				14.5	8	1.5	3.0	288-1053-ND	1.28	5.60	9.60	1182010
				16.5	10	1.5	3.0	288-1054-ND	2.00	8.75	15.00	11102010
				18.5	12	1.5	3.0	288-1055-ND	2.00	8.75	15.00	11122010
1.50	16	DIN	Black	12.5	6	1.8	3.4	288-1018-ND*	2.80	12.25	21.00	1161015
				14.5	8	1.8	3.4	288-1019-ND	1.76	7.70	13.20	1181015
				16.5	10	1.8	3.4	288-1020-ND	2.80	12.25	21.00	11101015
				18.5	12	1.8	3.4	288-1021-ND	2.80	12.25	21.00	11121015
				12.5	6	1.8	3.4	288-1056-ND*	2.80	12.25	21.00	1162015
		W	Red	14.5	8	1.8	3.4	288-1057-ND	1.76	7.70	13.20	1182015
				16.5	10	1.8	3.4	288-1058-ND	2.80	12.25	21.00	11102015
2.08	14	DIN	Yellow	14.5	8	2.05	3.6	288-1023-ND*	2.20	9.63	16.50	1181208
2.50	14	DIN	Blue	15.0	8	2.3	4.2	288-1024-ND	1.76	7.70	13.20	1181025
				19.0	12	2.3	4.2	288-1025-ND	2.40	10.50	18.00	11121025
		W	Blue	15.0	8	2.3	4.2	288-1062-ND	1.76	7.70	13.20	1182025
				19.0	12	2.3	4.2	288-1063-ND	2.40	10.50	18.00	11122025
4.00	12	DIN	Gray	17.5	10	2.9	4.8	288-1027-ND	2.88	12.60	21.60	11101040
				20.0	12	2.9	4.8	288-1028-ND	2.88	12.60	21.60	11121040
		W	Gray	17.5	10	2.9	4.8	288-1065-ND	2.88	10.80	14.40	11102040
				20.0	12	2.9	4.8	288-1066-ND	2.88	10.80	14.40	11122040
6.00	10	DIN	Yellow	20.0	12	3.6	6.2	288-1030-ND	3.80	14.25	19.00	11121060
		W	Black	20.0	12	3.6	6.2	288-1068-ND	3.80	14.25	19.00	11122060
10.00	8	DIN	Red	21.0	12	4.6	7.5	288-1032-ND	3.80	14.25	19.00	11121100
16.00	6	DIN	Blue	23.0	12	6.0	8.8	288-1034-ND	5.20	19.50	26.00	11121160
25.00	4	DIN	Yellow	29.0	16	7.5	11.0	288-1036-ND	13.20	49.50	66.00	11161250

* Does not conform to DIN 46228 Part 4

Note: For additional sizes go to www.digikey.com

Assortment Boxes

Assortment Box 1	Assortment Box 2	Assortment Box 3
150 pieces (30 pieces each of sizes 0.25, 0.34, 0.50, 0.75, and 1.00) **DIN Type** **288-1147-ND** .... **$50.00** **W Type** **288-1153-ND** **$50.00**	**400 pieces** (50 pieces each of sizes 0.50 and 2.50; 100 pieces each of sizes 0.75, 1.00, and 1.50) **DIN Type** **288-1148-ND** .... **$75.00** **W Type** **288-1154-ND** **$75.00**	**100 pieces** (50 pieces each of size 4.00; 20 pieces each of sizes 6.00 and 10.00, 10 pieces of size 16.00) **DIN Type** **288-1149-ND** .... **$62.50** **W Type** **288-1155-ND** **$62.50**

Twin-Wire Ferrules for Two Wires

Material: Copper/Plastic.
Surface: Tin-plated.

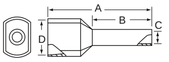

Size mm²	AWG	Color	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	50	100	AE Part No.
2 x 0.50	2 x 20	White	15.0	8.0	1.5	2.3 / 4.5	288-1124-ND	1.60	7.00	12.00	1381050
2 x 0.75	2 x 20	Gray	15.0	8.0	1.8	2.6 / 5.1	288-1125-ND	1.60	7.00	12.00	1381075
2 x 0.75	2 x 20	Gray	17.0	10.0	1.8	2.6 / 5.1	288-1126-ND	2.04	8.93	15.30	13101075
2 x 1.00	2 x 18	Red	15.0	8.0	2.05	3.2 / 5.1	288-1127-ND	1.88	8.23	14.10	1381010
2 x 1.00	2 x 18	Red	17.0	10.0	2.05	3.2 / 5.1	288-1128-ND	2.60	11.38	19.50	13101010
2 x 1.50	2 x 16	Black	16.0	8.0	2.3	3.5 / 6.4	288-1129-ND	2.24	9.80	16.80	1381015
2 x 1.50	2 x 16	Black	20.0	12.0	2.3	3.5 / 6.4	288-1130-ND	3.20	14.00	24.00	13121015
2 x 2.50	2 x 14	Blue	18.5	10.0	2.9	4.0 / 7.5	288-1131-ND	3.20	14.00	24.00	13101025
2 x 2.50	2 x 14	Blue	21.5	13.0	2.9	4.0 / 7.5	288-1132-ND	3.20	14.00	24.00	13131025
2 x 4.00	2 x 12	Gray	23.0	12.0	3.8	4.9 / 8.6	288-1133-ND	5.80	21.75	29.00	13121040
2 x 6.00	2 x 10	Yellow	25.0	14.0	4.9	5.8 / 9.6	288-1134-ND	6.20	23.25	31.00	13141060
2 x 10.0	2 x 8	Red	26.0	14.0	6.5	7.0 / 12.6	288-1135-ND	7.60	28.50	38.00	13141100
2 x 16.0	2 x 6	Blue	31.0	16.0	8.5	8.8 / 16.6	288-1136-ND	20.00	87.50	150.00	13161160

Wire Ferrules – Non-Insulated

Material: Copper.
Surface: Tin-plated.

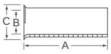

Size mm²	AWG	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 10	50	100	AE Part No.
0.25	24	5	0.8	1.7	288-1077-ND*	.60	2.63	4.50	12510025
		7	0.8	1.7	288-1078-ND*	.60	2.63	4.50	12710025
0.34	22	5	0.9	1.8	288-1079-ND*	.64	2.80	4.80	12510034
		7	0.9	1.8	288-1080-ND*	.64	2.80	4.80	12710034
0.50	20	6	1.0	2.1	288-1081-ND	.68	2.98	5.10	12610050
		8	1.0	2.1	288-1082-ND*	.72	3.15	5.40	12810050
		10	1.0	2.1	288-1083-ND	.72	3.15	5.40	121010050
0.75	20	6	1.2	2.3	288-1084-ND	.84	3.68	6.30	12610075
		8	1.2	2.3	288-1085-ND*	.84	3.68	6.30	12810075
		10	1.2	2.3	288-1086-ND	.88	3.85	6.60	121010075
		12	1.2	2.3	288-1087-ND	.96	4.20	7.20	121210075
1.00	18	6	1.4	2.5	288-1088-ND	.88	3.85	6.60	12610100
		7	1.4	2.5	288-1089-ND	.88	3.85	6.60	12710100
		8	1.4	2.5	288-1090-ND*	.88	3.85	6.60	12810100
		10	1.4	2.5	288-1091-ND	.88	3.85	6.60	121010100
		12	1.4	2.5	288-1092-ND*	1.00	4.38	7.50	121210100
1.50	16	7	1.7	2.8	288-1093-ND	.92	4.03	6.90	12710150
		8	1.7	2.8	288-1094-ND	.92	4.03	6.90	12810150
		10	1.7	2.8	288-1095-ND	.96	4.20	7.20	121010150
		12	1.7	2.8	288-1096-ND	1.08	4.73	8.10	121210150
		15	1.7	2.8	288-1097-ND*	1.08	4.73	8.10	121510150
2.50	14	7	2.2	3.4	288-1099-ND	1.16	5.08	8.70	12710250
		8	2.2	3.4	288-1100-ND	1.16	5.08	8.70	12810250
		10	2.2	3.4	288-1101-ND	1.16	5.08	8.70	121010250
		12	2.2	3.4	288-1102-ND	1.16	5.08	8.70	121210250
4.00	12	9	2.8	4.0	288-1105-ND	1.12	4.90	8.40	12910400
		10	2.8	4.0	288-1106-ND	1.12	4.90	8.40	121010400
		12	2.8	4.0	288-1107-ND	1.00	4.38	7.50	121210400
6	10	10	3.5	4.7	288-1110-ND	2.24	9.80	16.80	121010600
		12	3.5	4.7	288-1111-ND	2.24	9.80	16.80	121210600
10.00	8	12	4.5	5.8	288-1114-ND	2.00	8.75	15.00	1212110
25.00	4	12	7.3	9.5	288-1121-ND*	10.40	45.50	78.00	1212125

* Does not conform to DIN 46228 Part 1

Assortment Boxes

288-1156-ND	**Assortment Box 7 — 1,800 pieces** (500 pieces of size 0.50; 400 pieces each of sizes 0.75 and 1.00; 300 pieces of size 1.50; 200 pieces of Size 2.50)	**$87.50**
288-1157-ND	**Assortment Box 8 — 370 pieces** (150 pieces of size 4.00; 100 pieces of size 6.00; 80 pieces of size 10.00; 40 pieces of size 16.00)	**$75.00**

Crimp Tools

288-1163-ND	Prototype Tool For 10-22 AWG Ferrules (AE Part # TRAP 22-10)	**$43.73**
288-1158-ND	For 10-24 AWG Ferrules (AE Part # TRAP 24-10)	**$175.00**
288-1159-ND	For 4-8 AWG Ferrules (AE Part #. TRAP 8-4)	**$188.46**
288-1161-ND	For 10-28 AWG Ferrules (AE Part # SQ 28-10)	**$210.00**
288-1162-ND	For 8-12 AWG Ferrules (AE Part # TRAP 12-8 TW)	**$250.72**

Weidmüller DIN Rail - Mounted Terminal Blocks and Accessories

Fig. 1 - WDU 2.5N

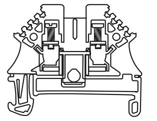

- Termination Block Width: 5mm
- Wire Size (UL): 24~12 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 25A

Fig. 2 - WDU 2.5

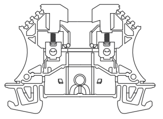

- Termination Block Width: 5mm
- Wire Size (UL):-22~12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 25A

Fig. 3 - WDU 4

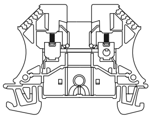

- Termination Block Width: 6mm
- Wire Size (UL): 22~10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 35A

Fig. 4- WDU 6

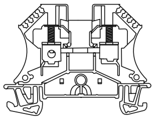

- Termination Block Width: 8mm
- Wire Size (UL): 20~8: AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 45A

Fig. 5 - WDU 10

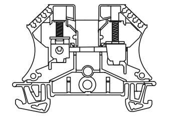

- Termination Block Width: 10mm
- Wire Size (UL): 16~6 AWG
- Voltage Approval (UL): 1000V
- Current Approval (UL): 65A

Fig. 6 - WDU 16

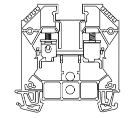

- Termination Block Width: 12mm
- Wire Size (UL): 14~6 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 70A

Fig. 7 - WDK 2.5N

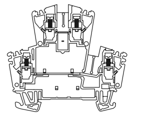

- Termination Block Width: 5mm
- Wire Size (UL): 22~12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 20A

Fig. 8 - WDK 2.5 DU-PE

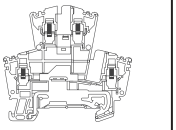

- Termination Block Width: 5mm
- Wire Size (UL): 22~12 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 20A

Fig. 9 - WDU 1.5/R 3.5

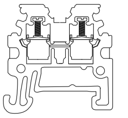

- Termination Block Width: 3.5mm
- Wire Size (UL): 26~14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

Fig. 10 - WDK 1.5/R 3.5

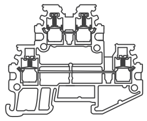

- Termination Block Width: 3.5mm
- Wire Size (UL): 26~14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

Fig. 11 - WDK 4N

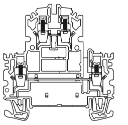

- Termination Block Width: 6mm
- Wire Size (UL): 22~10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 35A

Fig. 12 - WDK 4NV

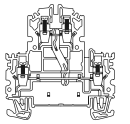

- Termination Block Width: 6mm
- Wire Size (UL): 22~10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 35A

Fig.13 - WDK 2.5 NV

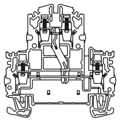

- Termination Block Width: 5mm
- Wire Size (UL): 26~12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 20A

TERMINAL BLOCKS							ACCESSORIES (See Descriptions and Prices Below)							
Fig.	Series	Digi-Key Part No.	Price Each 1	10	100	Weidmuller Part No.	Grounding Blocks	End Plates	End Brackets	Partitions	Jumpers/ Jumper Links	Notching Tools	DIN Rail	Marking Tags
1	WDU 2.5N	281-1466-ND	1.58	1.42	1.26	1040800000	281-1490-ND	281-1499-ND	281-1503-ND	—	281-1505-ND	281-1533-ND	281-1534-ND	281-1550-ND
2	WDU 2.5	281-1467-ND	1.31	1.18	1.05	1020000000	281-1491-ND	281-1500-ND	281-1503-ND	—	281-1505-ND	281-1533-ND	281-1534-ND	281-1550-ND
3	WDU 4	281-1468-ND	1.41	1.27	1.13	1020100000	281-1492-ND	281-1500-ND	281-1503-ND	—	281-1514-ND	281-1533-ND	281-1534-ND	281-1551-ND
4	WDU 6	281-1469-ND	1.94	1.75	1.55	1020200000	281-1493-ND	281-1500-ND	281-1503-ND	—	281-1518-ND 281-1521-ND	281-1533-ND	281-1534-ND	—
5	WDU 10	281-1470-ND	2.57	2.31	2.06	1020300000	281-1494-ND	281-1500-ND	281-1503-ND	—	281-1522-ND 281-1525-ND	281-1533-ND	281-1534-ND	—
6	WDU 16	281-1471-ND	5.07	4.57	4.06	1020400000	281-1495-ND	—	281-1502-ND	—	— 281-1529-ND	281-1533-ND	281-1534-ND	—
7	WDK 2.5N	281-1472-ND	3.99	3.60	3.20	1041100000	281-1496-ND	—	281-1502-ND	281-1501-ND	281-1505-ND 281-1506-ND	281-1533-ND	281-1534-ND	281-1550-ND
8	WDK 2.5 DU-PE	281-1555-ND	6.03	5.43	4.83	1036400000	281-1496-ND	—	281-1502-ND	281-1501-ND	—	281-1533-ND	281-1534-ND	281-1550-ND
9	WDU 1.5/R 3.5	281-1476-ND	1.64	1.48	1.31	1753280000	—	281-1478-ND	281-1480-ND	—	281-1481-ND 281-1482-ND	281-1533-ND	281-1535-ND	281-1536-ND 281-1537-ND
10	WDK 1.5/R 3.5	281-1477-ND	3.59	3.23	2.87	1753290000	—	281-1479-ND	281-1480-ND —	—	281-1481-ND 281-1482-ND	281-1533-ND	281-1535-ND	281-1536-ND 281-1537-ND
11	WDK 4N	281-1473-ND	5.70	5.13	4.56	1041900000	281-1497-ND	—	281-1502-ND	281-1501-ND	281-1514-ND 281-1515-ND	281-1533-ND	281-1534-ND	281-1550-ND
12	WDK 4NV	281-1474-ND	8.03	7.23	6.42	1041910000	281-1497-ND	—	281-1502-ND	281-1501-ND	281-1514-ND 281-1515-ND	281-1533-ND	281-1534-ND	281-1550-ND
13	WDK 2.5 NV	281-1475-ND	8.13	7.32	6.51	1041610000	281-1497-ND	—	281-1502-ND	281-1501-ND	281-1505-ND 281-1506-ND	281-1533-ND	281-1534-ND	281-1550-ND

Accessories

Description	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
Grounding Blocks					
WPE 2.5N	281-1490-ND	5.73	5.16	4.59	1016200000
WPE 2.5	281-1491-ND	6.54	5.89	5.24	1010000000
WPE 4	281-1492-ND	6.74	6.07	5.39	1010100000
WPE 6	281-1493-ND	6.95	6.26	5.56	1010200000
WPE 10	281-1494-ND	7.52	6.77	6.02	1010300000
WPE 16	281-1495-ND	9.14	8.23	7.31	1010400000
WDK 2.5N DU-PE	281-1496-ND*	7.23	6.51	5.79	1041650000
WDK 4N PE	281-1497-ND†	8.04	7.24	6.44	1041920000
End Plates					
WAP WDU 1.5/R 3.5	281-1478-ND	.35	.32	.28	1754190000
WAP WDK 1.5/R 3.5	281-1479-ND	.92	.83	.74	1754200000
WAP WDU 1.5	281-1499-ND	.84	.76	.68	1060000000
WAP WDU 2.5	281-1500-ND	.89	.80	.71	1050000000
End Brackets					
EW 15	281-1480-ND	.72	.65	.58	3828600000
WEW 35/1	281-1502-ND	4.43	3.99	3.54	1061200000
WEW 35/2	281-1503-ND	2.07	1.87	1.66	1059000000
Partitions					
WTW	281-1501-ND	4.85	4.37	3.88	1058800000
Jumpers					
ZQV 1.5/R 3.5/2 GE	281-1481-ND	.54	.49	.44	1754210000
ZQV 1.5/R 3.5/3 GE	281-1482-ND	1.07	.96	.86	1754220000
ZQV 2.5N/2	281-1505-ND	.59	.53	.47	1693800000
ZQV 2.5N/3	281-1506-ND	1.10	.99	.88	1693810000
ZQV 4N/2	281-1514-ND	1.16	1.04	.93	1758250000
ZQV 4N/3	281-1515-ND	1.71	1.54	1.37	1762630000
ZQV 4N/10	281-1517-ND	5.57	5.01	4.46	1758260000

Description	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
Jumper Links					
WQV 6/2	281-1518-ND	1.64	1.48	1.31	1052360000
WQV 6/3	281-1519-ND	2.51	2.26	2.01	1054760000
WQV 6/4	281-1520-ND	3.15	2.84	2.52	1054860000
WQV 6/10	281-1521-ND	7.82	7.04	6.26	1052260000
WQV 10/2	281-1522-ND	1.83	1.65	1.47	1052560000
WQV 10/3	281-1523-ND	2.57	2.31	2.06	1054960000
WQV 10/4	281-1524-ND	3.33	3.00	2.67	1055060000
WQV 10/10	281-1525-ND	7.97	7.17	6.38	1052460000
WQV 16/10	281-1529-ND	8.34	7.51	6.68	1053360000
Notching Tool					
Cutting Tool WAW 1	281-1533-ND	47.63	—	—	900450
Screwdrivers					
0.6 x 3.5	281-1530-ND	11.43	10.29	9.15	9008330000
0.8 x 4.0	281-1531-ND	15.48	13.94	12.39	9008340000
1.0 x 5.5	281-1532-ND	21.05	18.95	16.84	9008350000
DIN Rail - Slotted 1M					
TS 35 x 7.5mm	281-1534-ND	12.80	11.52	10.24	51451
TS 15 x 5.5mm	281-1535-ND	16.45	14.81	13.16	11751
Marking Pen					
STI - Black	281-1554-ND	8.28	7.46	6.63	508401694
Outlet Modules					
AC, Single	281-1560-ND	14.74	13.48	10.53	9915480000
AC, Duplex	281-1561-ND	21.30	19.48	15.22	9915490000
Fuse Block					
With Indicator	281-1562-ND	12.48	11.42	8.92	67601493

* Single level + ground † Double level grounding block

Description	Digi-Key Part No.	Price Each 1	10	100	Weidmüller Part No.
Marker Strips					
DEK 5/3.5 MC Blank (unprinted)	281-1536-ND	48.63	43.77	38.91	1755270000
DEK 5/3.5 FS 1-10 Premarked (printed)	281-1537-ND	48.63	43.77	38.91	1762320001
WS 10/5 Blank (unprinted)	281-1547-ND	1.67	1.50	1.34	1060860000
WS 10/6 Blank (unprinted)	281-1548-ND	1.71	1.54	1.37	1060960000
DEK 5/5 Blank (unprinted)	281-1550-ND	2.81	2.53	2.25	0473360000
DEK 5/6 Blank (unprinted)	281-1551-ND	2.81	2.53	2.25	0468560000
DEK 5/8 Blank (unprinted)	281-1553-ND	2.97	2.68	2.38	1277060000

Grounding Blocks - Grounds connected wires to DIN rail

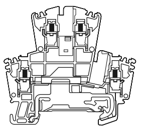

End Plates - Covers open end of terminal block

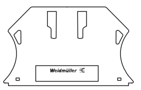

End Brackets - Clamps blocks into place on Rail

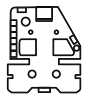

Partitions - WTW

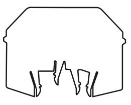

Jumpers - For cross connection ZQV

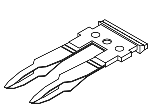

Jumper Links - For cross connection WQV

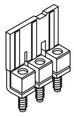

DIN Rail-with mounting holes

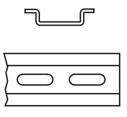

Marker Strips-Will mark termination points

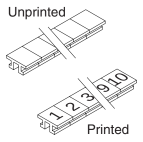

Fuse Block TS 35 DIN Rail with neon indicator

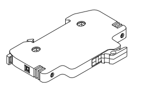

Outlet Modules-TS 35 DIN Rail

Duplex

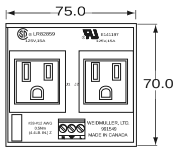

Single

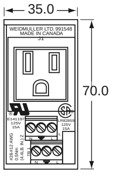

DIN Rail Mounted Terminal Blocks and Accessories

Fig. 1

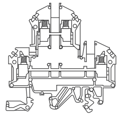

Color: Beige

Fig. 2

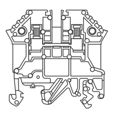

Color: Beige

Fig. 3

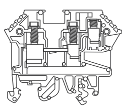

Color: Beige

Fig. 4

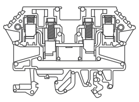

Color: Beige

Fig. 5

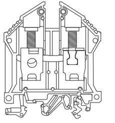

Color: Beige

Fig. 6

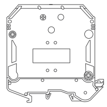

Color: Beige or Green/ Yellow

Fig. 7

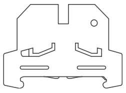

Color: Green/Yellow

Fig. 8

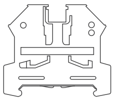

Color: Green/Yellow

Fig. 9

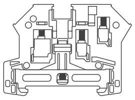

Color: Green/Yellow

Fig. 10

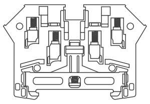

Color: Green/Yellow

Fig. 11

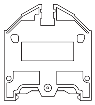

Color: Green/Yellow

Fig. 12

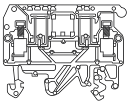

Color: Beige

Fig. 13

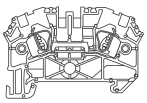

Color: Beige or Green/Yellow

Fig. 14

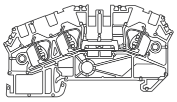

Color: Beige or Green/Yellow

Fig. 15

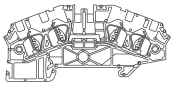

Color: Beige or Green/Yellow

Fig. 16

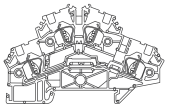

Color: Beige or Green/Yellow

Terminal Blocks							Specifications				Accessories								
Fig.	Series	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.	Dimensions L x W x H (mm)	Wire Size (AWG)	UL Rated Voltage (V)	UL Rated Current (A)	End Plate	Isolation Partition	Separator	End Bracket	Test Socket	Test Plug	Cross Connection	Marker Strip (Blank)	Marker Strip (1-10)
Screw Terminal																			
1	SRD 2.5	ED2542-ND	2.58	2.32	2.06	41206.2	59 x 5 x 60	22-14	300	20	2101.2	—	2566.2	2826.2	2075.0	2007.0	2567.0/2570.0	2430.0	2431.0
	SRD 4	ED2527-ND	2.69	2.42	2.15	41020.2	59 x 6 x 60	22-12	300	30	2101.2	—	2566.2	2826.2	2075.0	2007.0	2087.0/2090.0	2430.0	2431.0
2	SR 10	ED2526-ND	1.65	1.49	1.33	41005.2	48 x 8 x 47	22-8	600	65	2001.2	2002.2	2003.2	2826.2	—	—	2060.0/2750.2 & 2063.0/2753.2	—	—
	SR 2.5	ED2547-ND	1.04	.94	.83	41296.2	48 x 5 x 47	22-14	600	20	2001.2	2002.2	2566.2	2826.2	2075.0	2007.0	2567.0/2570.0	2430.0	2431.0
	SR 4	ED2525-ND	1.07	.96	.86	41001.2	48 x 6 x 47	22-10	600	40	2001.2	2002.2	2003.2	2826.2	2006.0	2007.0	2019.0/2740.2 & 2022.0/2743.2	2035.0	2036.0
3	SR 4 DR	ED2543-ND	2.07	1.87	1.66	41210.2	57 x 6 x 47	22-12	600	20	—	—	2003.2	2826.2	2006.0	2007.0	2019.0/2740.2 & 2022.0/2743.2	2035.0	2036.0
4	SR 4 DRL	ED2544-ND	2.89	2.60	2.31	41211.2	67 x 6 x 47	22-12	600	20	—	—	2003.2	2826.2	2006.0	2007.0	2019.0/2740.2 & 2022.0/2743.2	2035.0	2036.0
5	SR 16	ED2528-ND	2.47	2.22	1.98	41050.2	50 x 12 x 58	12-4	600	85	2104.2	—	2003.2	2826.2	—	—	2112.0	—	—
	SR 35	ED2529-ND	4.82	4.34	3.86	41052.2	58 x 16 x 71	12-2	600	115	2116.2	—	—	2761.0	—	—	—	—	—
6	SR 150	ED2538-ND	27.64	24.88	22.11	41124.2	93 x 31 x 109	2-300MCM	600	275	—	—	—	2761.0	—	—	—	—	—
	SR 240	ED2539-ND	33.18	29.87	26.55	41126.2	93 x 36 x 123	2/0-500	600	370	—	—	—	2761.0	—	—	—	—	—
	SR 50	ED2536-ND	11.15	10.04	8.92	41120.2	79 x 20 x 76	6-1/0	600	150	—	—	—	2761.0	—	—	—	—	—
	SR 95	ED2537-ND	22.12	19.91	17.70	41122.2	84 x 25 x 88	2-4/0	600	230	—	—	—	2761.0	—	—	—	—	—
12	SRSI 4-2	ED2535-ND	4.85	4.37	3.88	41078.2	51 x 8 x 39	22-12	300	6.3	—	—	—	2826.2	—	—	—	—	—
Tension Spring																			
13	ZR 2.5	ED2548-ND*	1.09	.99	.88	43500.2	59 x 5 x 39	20-12	600	27	3700.2	2957.2	—	—	—	—	3710.8/3718.8	2430.0	2431.0
	ZR 4	ED2553-ND*	1.29	1.16	1.03	43515.2	64 x 6 x 42	20-10	600	35	3703.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
14	ZR 2.5 DR	ED2549-ND*	1.57	1.42	1.26	43501.2	71.3 x 5 x 39	20-12	600	27	3701.2	2957.2	—	—	—	—	3710.8/3718.8	2430.0	2431.0
	ZR 4 DR	ED2554-ND*	1.77	1.59	1.42	43516.2	78.5 x 6 x 42	20-10	600	35	3704.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
15	ZR 2.5 DRL	ED2550-ND*	2.05	1.85	1.64	43502.2	83.6 x 5 x 39	20-12	600	27	3702.2	2957.2	—	—	—	—	3710.8/3718.8	2430.0	2431.0
	ZR 4 DRL	ED2555-ND*	2.21	2.00	1.77	43517.2	93 x 6 x 42	20-10	600	35	3705.2	2957.2	—	—	—	—	3720.8/3728.8	2035.0	2036.0
16	ZRD 2.5	ED2559-ND	2.52	2.27	2.02	43562.2	84 x 5 x 53	20-12	300	10	3756.2	—	—	3748.2	—	—	3710.8/3718.8	2430.0	2431.0

Grounding Blocks											
Fig.	Series	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.	Dim. (mm) L x W x H	Wire Size (AWG)	Isolation Partition	Marker Strip (Blank)	Marker Strip (1-10)
6	SRSL 4-T15	ED2534-ND†	3.14	2.83	2.51	41064.2	32 x 7 x 32	22-10	—	—	—
7	SRSLN 2.5-T35	ED2531-ND†	3.28	2.95	2.62	41058.2	52 x 6 x 39	22-14	—	2035.0	2036.0
8	SRSL 10-T35	ED2546-ND†	4.34	3.91	3.48	41213.2	56 x 10 x 47	20-8	—	—	—
	SRSL 2.5-T35	ED2530-ND†	3.28	2.95	2.62	41056.2	52 x 6 x 47	22-14	—	2035.0	2036.0
	SRSL 4-T35	ED2545-ND†	3.50	3.15	2.80	41212.2	56 x 8 x 47	22-10	—	—	—
9	SRSL 2.5-T35 DR	ED2532-ND†	4.43	3.99	3.54	41060.2	62.5 x 6 x 47	22-14	—	2430.0	2431.0
10	SRSL 2.5-T35 DRL	ED2533-ND†	4.59	4.14	3.68	41062.2	67 x 6 x 47	22-14	—	2035.0	2036.0
11	SRSL 16-T35	ED2540-ND†	6.78	6.10	5.42	41197.2	56 x 12 x 58	12-6	—	—	—
	SRSL 35-T35	ED2541-ND†	9.10	8.19	7.28	41199.2	58 x 16 x 71	12-2	—	—	—
13	ZRSL 2.5	ED2551-ND†	3.81	3.43	3.05	43510.2	59 x 5 x 39	20-12	2957.2	2430.0	2431.0
	ZRSL 4	ED2556-ND†	3.84	3.46	3.07	43525.2	64 x 6 x 42	20-10	2957.2	2035.0	2036.0
14	ZRSL 4 DR	ED2557-ND†	4.62	4.16	3.70	43526.2	78.5 x 6 x 42	20-10	2957.2	2430.0	2431.0
15	ZRSL 2.5 DRL	ED2552-ND†	5.27	4.74	4.22	43512.2	83.6 x 5 x 39	20-12	2957.2	2430.0	2431.0
	ZRSL 4 DRL	ED2558-ND†	6.19	5.57	4.95	43527.2	93 x 6 x 42	20-10	2957.2	2035.0	2036.0
16	ZRSLD 2.5	ED2560-ND†	4.57	4.11	3.66	43567.2	84 x 5 x 53	20-12	—	2430.0	2431.0

* UL approvals pending   † Color: Green/Yellow

Accessories

END PLATES:

In general end plates are used at the end of each terminal row. If different terminals of different sizes are used on 1 terminal row, end plates are also used between these different sized terminals. The overall dimension of the end plates conform to the dimension of the terminal to match.

ISOLATION PARTITIONS:

When operating with cross-connections, partition plates have to be mounted between the cross-connection. This is necessary in order to follow the prescribed air and creepage distances.

SEPARATORS:

Some terminal types are used with separators when operating them with cross-connections for to follow the prescribed air and creepage distances. Separators can be mounted subsequently between the cross-connections.

TEST-SOCKETS:

Sockets type STB are inserted in the busbar or screwed in the modular terminal in place of the terminal screw. They serve to take up the test sockets type PS.

TEST PLUGS:

Test plug type PS serve for the final testing of finished wired terminal strips.

CROSS-CONNECTION SYSTEMS:

Q - Cross connection; QI - For cross connections the cross connection bar, connection sleeve and fixing screw are already captively mounted with the corresponding number of poles.

Series	Description	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.
End Plates						
AP 1.5-4	—	ED2505-ND	.51	.46	.41	2738.2
AP 16	—	ED2495-ND	.79	.71	.63	2104.2
AP 2.5-10	—	ED2478-ND	.56	.51	.45	2001.2
AP 35	—	ED2497-ND	1.12	1.01	.90	2116.2
AP 4	—	ED2494-ND	.93	.84	.74	2101.2
AP-SR	—	ED2490-ND	.51	.46	.41	2070.2
ZAP 2.5/2A	—	ED2513-ND	.70	.63	.56	3700.2
ZAP 2.5/3A	—	ED2514-ND	.73	.66	.59	3701.2
ZAP 2.5/4A	—	ED2515-ND	.76	.68	.61	3702.2
ZAP 4/2A	—	ED2516-ND	.73	.66	.59	3703.2
ZAP 4/3A	—	ED2517-ND	.79	.71	.63	3704.2
ZAP 4/4A	—	ED2518-ND	.81	.74	.65	3705.2
ZAPD 2.5	—	ED2524-ND	1.18	1.06	.94	3756.2
Isolation Partitions						
TW 2.5-10	—	ED2479-ND	.73	.66	.59	2002.2
TWMF	—	ED2512-ND	2.55	2.30	2.04	2957.2
Separators						
TRS 1	—	ED2480-ND	.17	.16	.14	2003.2
TRS 3	—	ED2502-ND	.20	.18	.16	2566.2
End Brackets						
ES 35/2/K	7.5mm	ED2481-ND	.59	.53	.47	2005.2
ES 35/2/K	8mm	ED2509-ND	.93	.84	.74	2826.2
HES 35 ST	11mm	ED2508-ND	2.86	2.57	2.29	2761.0
ZES 35	6mm	ED2523-ND	.90	.81	.72	3748.2
Test Sockets						
STB 14/2.3	—	ED2482-ND	.34	.31	.27	2006.0
STB 8.5/2.3	—	ED2491-ND	.34	.31	.27	2075.0
Test Plug						
PS 2.3	—	ED2483-ND	2.89	2.60	2.31	2007.0

Series	Description	Digi-Key Part No.	Price Each 1	10	100	On-Shore Part No.
Cross Connection Jumpers for Screw Terminal Blocks						
Q 2	—	ED2484-ND	1.01	.91	.81	2019.0
Q 2	—	ED2488-ND	1.49	1.34	1.19	2060.0
Q 2	—	ED2492-ND	1.01	.91	.81	2087.0
Q 2	—	ED2496-ND	1.71	1.54	1.37	2112.0
Q 2	—	ED2498-ND	1.01	.91	.81	2422.0
Q 2	—	ED2503-ND	1.01	.91	.81	2567.0
Q 2	—	ED2510-ND	1.01	.91	.81	2832.0
Q 10	—	ED2485-ND	4.34	3.91	3.48	2022.0
Q 10	—	ED2489-ND	6.89	6.20	5.51	2063.0
Q 10	—	ED2493-ND	4.34	3.91	3.48	2090.0
Q 10	—	ED2499-ND	4.34	3.91	3.48	2425.0
Q 10	—	ED2504-ND	4.34	3.91	3.48	2570.0
Q 10	—	ED2511-ND	4.34	3.91	3.48	2835.0
QI 2	—	ED2506-ND	1.21	1.09	.97	2740.2
QI 10	—	ED2507-ND	5.77	5.20	4.62	2743.2
Cross Connection Jumpers for Tension Spring Terminal Blocks						
ZQI 2.5/10	—	ED2520-ND	5.27	4.74	4.22	3718.8
ZQI 2.5/2	—	ED2519-ND	.59	.53	.47	3710.8
ZQI 4/10	—	ED2522-ND	5.71	5.15	4.57	3728.8
ZQI 4/2	—	ED2521-ND	.65	.59	.52	3720.8
Marker Strips						
SB 5/10	Blank Strip/10 5mm	ED2500-ND	.55	.50	.44	2430.0
SB 5/10 FW 1-10	Printed Strip/10 5mm	ED2501-ND	.38	.34	.30	2431.0(1-10)
SB 6/10	Blank Strip/10 6mm	ED2486-ND	.55	.50	.44	2035.0
SB 6/10 FW 1-10	Printed Strip/10 6mm	ED2487-ND	.55	.50	.44	2036.0(1-10)

PHOENIX CONTACT DIN Rail-Mounted Terminal Blocks and Accessories

Fig. 1 — MT 1.5
- Termination Block Width: 4.2mm
- Terminations per Linear Meter: 476
- Wire Size (UL): 30-14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

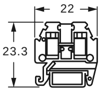

Fig. 2 — MTTB 1.5
- Termination Block Width: 4.2mm
- Terminations per Linear Meter: 952
- Wire Size (UL): 30-14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

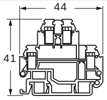

Fig. 3 — MBK 3/E-Z
- Termination Block Width: 5.2mm
- Terminations per Linear Meter: 384
- Wire Size (UL): 28-12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 20A

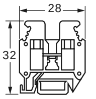

Fig. 4 — MBK 5/E-Z
- Termination Block Width: 6.2mm
- Terminations per Linear Meter: 322
- Wire Size (UL): 26-10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 30A

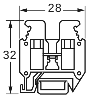

Fig. 5 — UK 1.5 N
- Termination Block Width: 4.2mm
- Terminations per Linear Meter: 476
- Wire Size (UL): 30-14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

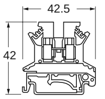

Fig. 6 — UK 2.5 N
- Termination Block Width: 5.2mm
- Terminations/Linear Meter: 384
- Wire Size (UL): 30-12 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 20A

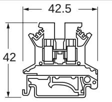

Fig. 7 — UK 5 N
- Termination Block Width: 6.2mm
- Terminations/Linear Meter: 322
- Wire Size (UL): 30-10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 30A

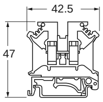

Fig. 8 — UK 6 N
- Termination Block Width: 8.2mm
- Terminations/Linear Meter: 242
- Wire Size (UL): 26-8 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 50A

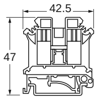

Fig. 9 — UK 10 N
- Termination Block Width: 10.2mm
- Terminations per Linear Meter: 196
- Wire Size (UL): 24-6 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 65A

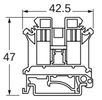

Fig. 10 — UKK 5
- Termination Block Width: 6.2mm
- Terminations/Linear Meter: 644
- Wire Size (UL): 26-10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 30A

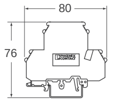

Fig. 11 — SLKK 5
- Termination Block Width: 6.2mm
- Terminations/Linear Meter: 805
- Wire Size (UL): 26-10 AWG
- Volt. Approval (UL): 600V
- Current Approval (UL): 30A

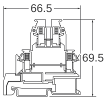

Fig. 12 — DIK 1.5
- Termination Block Width: 6.2mm
- Wire Size (UL): 30-14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

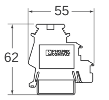

Fig. 13 — DIKD 1.5
- Termination Block Width: 6.2mm
- Wire Size (UL): 30-14 AWG
- Voltage Approval (UL): 300V
- Current Approval (UL): 15A

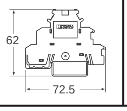

Fig. 14 — UDK 4
- Termination Block Width: 6.2mm
- Wire Size (UL): 30-10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 30A

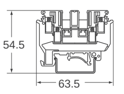

Fig. 15 — UK 4
- Termination Block Width: 6.2mm
- Wire Size (UL): 28-12 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 20A

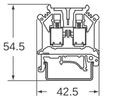

Fig. 16 — UK 5-HESI
- Termination Block Width: 8.2mm
- Wire Size (UL): 26-10 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 6.3A

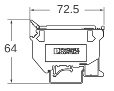

Fig. 17 — UKK 5-HESI
- Termination Block Width: 8.2mm
- Wire Size (UL): 24-8 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 30A

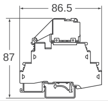

Fig. 18 — UK 6.3-HESI
- Termination Block Width: 10.2mm
- Wire Size (UL): 26-8 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 25A

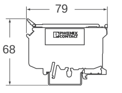

Fig. 19 — UK 10.3-HESI
- Termination Block Width: 17.6mm
- Wire Size (UL): 24-8 AWG
- Voltage Approval (UL): 600V
- Current Approval (UL): 35A

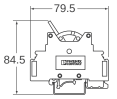

Terminal Blocks

Fig.	Series	Digi-Key Part No.	Price Each 1	Price Each 10	Mfg. Part No.
1	MT 1.5	277-1506-ND	2.22	2.00	3100305
2	MTTB 1.5	277-1483-ND	5.44	4.90	1414129
3	MBK 3/E-Z	277-1481-ND	2.71	2.44	1413036
4	MBK 5/E-Z	277-1480-ND	2.60	2.34	1402940
5	UK 1.5 N	277-1504-ND	1.83	1.65	3005837
6	UK 2.5 N	277-1499-ND	1.74	1.57	3003347
7	UK 5 N	277-1501-ND	1.77	1.60	3004362
8	UK 6 N	277-1502-ND	2.41	2.17	3004524
9	UK 10 N	277-1503-ND	3.15	2.84	3005073
10	UKK 5	277-1491-ND	4.80	4.32	2774017
	UKK 5-TG	277-1563-ND	11.80	10.63	3007042

Fig.	Series	Digi-Key Part No.	Price Each 1	Price Each 10	Mfg. Part No.
11	SLKK 5	277-1521-ND	9.32	8.40	0461018
12	DIK 1.5	277-1543-ND	5.71	5.15	2715966
13	DIKD 1.5	277-1544-ND	9.95	8.96	2715979
	DIKD 1.5-TG	277-1564-ND	10.40	9.36	2774237
	DIKD 1.5-2D	277-1565-ND	12.18	10.97	2716512
14	UDK 4	277-1576-ND	3.94	3.55	2775016
	UDK 4-TG	277-1554-ND	4.50	4.05	2777014
15	UK 4-TG	277-1556-ND	4.47	4.02	2812018
16	UK 5-HESI	277-1557-ND	8.45	7.61	3004100
	UK 5-HESILA 250	277-1558-ND	13.06	11.76	3004142

Fig.	Series	Digi-Key Part No.	Price Each 1	Price Each 10	Mfg. Part No.
16	UK 5-HESILED 24	277-1559-ND	13.06	11.76	3004126
17	UKK 5-HESI (5x20)	277-1569-ND	20.07	18.07	3007204
	UKK 5-HESI (6.3x32)	277-1570-ND	21.01	18.91	3007217
	UKK 5-HESILA 250 (5x20)	277-1571-ND	29.93	26.94	0711629
	UKK 5-HESILED 24 (6.3x32)	277-1572-ND	30.00	27.00	0711632
	UKK 5-HESILA 250 (6.3x32)	277-1573-ND	31.19	28.08	0711616
	UKK 5-HESILED 24 (5x20)	277-1574-ND	28.28	25.45	3026654
18	UK 6.3-HESI	277-1560-ND	10.53	9.48	3004171
	UK 6.3-HESILED 24	277-1561-ND	16.30	14.67	3004265
	UK 6.3-HESILA 250	277-1562-ND	16.30	14.67	3004249
19	UK 10.3-HESI	277-1555-ND	16.75	15.08	3004906

Accessories

Marker Strip: **U** = Unprinted **P** = Printed

Fig.	Series	Digi-Key Part No.	Grounding Block	End Cover	Spacer Cover	Spacer Plate	Partition Plate	Isolator Bridge Bar	Bridge Bar Isolator	Fixed Bridge	Insertion Bridge	Marker Strip U	Marker Strip P	Marker Pen	Screwdriver	End Bracket	DIN Rail
1	MT 1.5	277-1506-ND	277-1507-ND	277-1508-ND	—	—	—	—	—	277-1494-ND	—	A	B	277-1474-ND	277-1477-ND	277-1485-ND	277-1509-ND
2	MTTB 1.5	277-1483-ND	—	277-1495-ND	277-1496-ND	277-1497-ND	—	—	—	277-1494-ND	—	A	B	277-1474-ND	277-1477-ND	277-1485-ND 277-1523-ND	277-1509-ND 277-1510-ND
3	MBK 3/E-Z	277-1481-ND	277-1482-ND	277-1484-ND	—	—	—	—	—	277-1488-ND	277-1486-ND	D	H, L	277-1474-ND	277-1478-ND	277-1485-ND	277-1509-ND
4	MBK 5/E-Z	277-1480-ND	277-1520-ND	277-1484-ND	—	—	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	277-1485-ND	277-1509-ND
5	UK 1.5 N	277-1504-ND	277-1505-ND	277-1493-ND	—	—	—	—	—	277-1494-ND	—	C	P, Q	277-1474-ND	277-1477-ND	277-1523-ND	277-1510-ND
6	UK 2.5 N	277-1499-ND	277-1517-ND	277-1493-ND	—	—	—	—	—	277-1488-ND	277-1486-ND	D	H, L	277-1474-ND	277-1478-ND	277-1523-ND	277-1510-ND
7	UK 5 N	277-1501-ND	277-1518-ND	277-1498-ND	—	—	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	277-1523-ND	277-1510-ND
8	UK 6 N	277-1502-ND	277-1519-ND	277-1498-ND	—	—	—	—	—	277-1515-ND	277-1512-ND	F	J, N	277-1474-ND	277-1479-ND	277-1523-ND	277-1510-ND
9	UK 10 N	277-1503-ND	277-1500-ND	277-1498-ND	—	—	—	—	—	277-1516-ND	277-1513-ND	G	K, O	277-1474-ND	277-1479-ND	277-1523-ND	277-1510-ND
10	UKK 5	277-1491-ND	277-1492-ND	277-1487-ND	277-1490-ND	277-1489-ND	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	—	277-1523-ND	277-1510-ND
	UKK 5-TG	277-1563-ND	—	—	—	—		277-1550-ND	277-1549-ND							—	—
11	SLKK 5	277-1521-ND	—	277-1487-ND	277-1490-ND	277-1489-ND	—	—	—	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	277-1523-ND	277-1510-ND
12	DIK 1.5	277-1543-ND	—	—	—	—	277-1540-ND	—	—	277-1514-ND	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
13	DIKD 1.5	277-1544-ND	—	—	—	—	277-1541-ND	—	—	277-1514-ND	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
	DIKD 1.5-TG	277-1564-ND	—	—	—	—	277-1541-ND	—	—	—	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
	DIKD 1.5-2D	277-1565-ND	—	—	—	—	277-1541-ND	—	—	277-1514-ND	277-1546-ND 277-1547-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
14	UDK 4	277-1576-ND	—	—	—	—	—	277-1550-ND	277-1549-ND	277-1514-ND	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
	UDK 4-TG	277-1554-ND		277-1545-ND				—	—	—							
15	UK 4-TG	277-1556-ND	—	277-1498-ND	—	—	277-1542-ND	—	—	—	277-1511-ND	E	I, M	277-1474-ND	277-1478-ND	—	—
16	UK 5-HESI UK 5-HESILA 250 UK 5-HESILED 24	277-1557-ND 277-1558-ND 277-1559-ND	—	—	—	—	—	—	—	—	277-1548-ND	F	J, N	277-1474-ND	277-1478-ND	—	—
17	UKK 5-HESI (5x20) UKK 5-HESI (6.3x32) UKK 5-HESILA 250 (5x20) UKK 5-HESILED 24 (6.3x32) UKK 5-HESILA 250 (6.3x32) UKK 5-HESILED 24 (5x20)	277-1569-ND 277-1570-ND 277-1571-ND 277-1572-ND 277-1573-ND 277-1574-ND	—	—	—	—	—	—	—	277-1568-ND	—	F	J, N	277-1474-ND	277-1478-ND	—	—
18	UK 6.3-HESI UK 6.3-HESILED 24 UK 6.3-HESILA 250	277-1560-ND 277-1561-ND 277-1562-ND	—	—	—	—	—	—	—	—	277-1513-ND	G	K, O	277-1474-ND	277-1479-ND	—	—
19	UK 10.3-HESI	277-1555-ND	—	—	—	—	—	—	—	—	277-1566-ND 277-1567-ND	G	K, O	277-1474-ND	277-1479-ND	—	—

(Continued)

Accessories *(Cont.)*

Grounding Block

Grounds connected wires to DIN rail

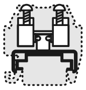

End Cover

Covers open end of terminal block

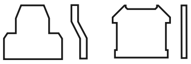

2 level 1 level

Spacer Cover

Covers open end of 2 level terminal block and compensates for level offset

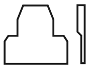

Spacer Plate

Compensates for level offset on closed end of 2 level terminal block

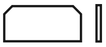

Fixed Bridge

For cross connections between terminal blocks in terminal center bridging cavity, 10 position, divisible

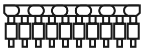

Insertion Bridge

For cross connections between terminal blocks in wire entry cavity, 10 position, divisible

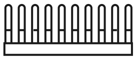

Marker Pen

To label the unprinted marker strip

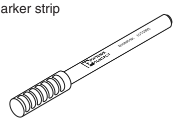

Screwdriver

Fully insulated blade shaft, straight blade design

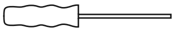

End Bracket

Clamps terminal blocks into place on DIN rail

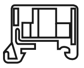

For 15mm wide DIN rail

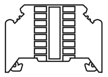

For 35mm wide DIN rail

DIN Rail

With elongated mounting holes

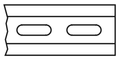

15mm wide
5.5mm deep
1 meter long

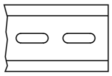

35mm wide
7.5mm deep
1 meter long

Marker Strip

Unprinted or printed, will mark termination points

ZBFM Type

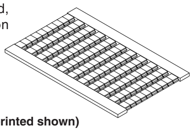

(Unprinted shown)

ZB Type

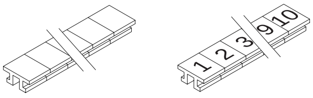

Unprinted **Printed**

Fuse Plug

Fuse Plug for cartridge fuse inserts 5x20mm, color: black, with LED/light indicator

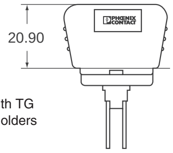

Use With TG
Fuse Holders

Description, Width	Digi-Key Part No.	Price Each 1	10	100	Phoenix-Contact Part No.
Grounding Blocks					
MT 1.5-PE, 4.2mm	277-1507-ND	6.97	6.28	5.58	3100318
MBK 3/E-Z-PE, 5.2mm	277-1482-ND	6.26	5.64	5.02	1413117
MBK 5/E-Z-PE, 6.2mm	277-1520-ND	6.76	6.09	5.41	0452043
USLKG 1.5 N, 4.2mm	277-1505-ND	14.02	12.62	11.22	3005853
USLKG 2.5 N, 5.2mm	277-1517-ND	7.11	6.40	5.69	0441119
USLKG 5, 6.2mm	277-1518-ND	6.80	6.12	5.45	0441504
USLKG 6 N, 8.2mm	277-1519-ND	7.66	6.89	6.13	0442079
USLKG 10 N, 10.2mm	277-1500-ND	8.31	7.48	6.65	3003923
UKK 5-PE, 6.2mm	277-1492-ND	14.60	13.15	11.69	2774211
End Covers					
D-MT 1.5	277-1508-ND	.64	.58	.52	3100321
D-MTTB 1.5	277-1495-ND	.99	.89	.79	3002665
D-MBK/E	277-1484-ND	.75	.68	.61	1415021
D-UK 2.5	277-1493-ND	1.02	.92	.82	3001022
D-UK 4/10	277-1498-ND	1.04	.94	.84	3003020
D-UKK 3/5	277-1487-ND	1.58	1.43	1.27	2770024
D-UDK RELG	277-1545-ND	1.18	1.07	.95	2777027
D-UDK 4	277-1577-ND	1.44	1.30	1.15	2775113
Spacer Covers					
DG-MTTB 1.5, 2mm	277-1496-ND	1.19	1.07	.96	3002678
DG-UKK 3/5, 2.5mm	277-1490-ND	1.71	1.54	1.37	2770817
Spacer Plates					
DP-MTTB 1.5, 2mm	277-1497-ND	1.12	1.01	.90	3002681
DP-UKK 3/5, 2.5mm	277-1489-ND	1.16	1.05	.93	2770794
Fixed Bridge					
FBRN 10-4 N	277-1494-ND	6.51	5.86	5.21	3001624
FBRI 10-5 N	277-1488-ND	9.00	8.11	7.21	2770642
FBRI 10-8 N	277-1568-ND	9.54	8.59	7.64	2772080
FBI 10-6	277-1514-ND	7.45	6.71	5.97	0203250
FBI 10-8	277-1515-ND	8.98	8.08	7.19	0203263
FBI 10-10	277-1516-ND	11.63	10.47	9.31	0203276
Partition Plate					
2mm for DIK	277-1540-ND	1.55	1.40	1.25	1413272
2mm for DIKD	277-1541-ND	1.71	1.54	1.37	1413285
1.5mm for UK	277-1542-ND	1.20	1.09	.97	3003224
Isolator Bridge Bar					
Use with 1302338	277-1550-ND	5.97	5.38	4.78	0301505
Bridge Bar Isolator					
Use with 0301505	277-1549-ND	.48	.44	.39	1302338
Insertion Bridge					
EBL 10-5	277-1486-ND	2.67	2.41	2.14	2303132
EB 10-6	277-1511-ND	4.28	3.85	3.43	0201139
EB 10-8	277-1512-ND	5.29	4.77	4.24	0202138
EBS 10-8	277-1548-ND	5.41	4.87	4.33	3118135
EB 10-10	277-1513-ND	7.11	6.40	5.69	0203137
EB 56-18	277-1566-ND	62.54	56.29	50.04	3009299
EB 56-18/L1-L2-L3	277-1567-ND	179.74	161.77	143.80	3009367
EB 80-DIK BU	277-1546-ND	48.40	43.57	38.73	2715940
EB 80-DIK RD	277-1547-ND	48.40	43.57	38.73	2715953
Marker Pen					
M-PEN, black	277-1474-ND	14.73	13.26	11.79	1051993
Screwdrivers					
SZS 0.4 x 2.5	277-1477-ND	15.08	13.58	12.07	1205037
SZS 0.6 x 3.5	277-1478-ND	15.08	13.58	12.07	1205053
SZS 1.0 x 4.0	277-1479-ND	22.81	20.54	18.26	1205066
End Brackets					
E/MK 1, 6mm	277-1485-ND	.99	.89	.79	1421659
E/NS 35 N, 9.5mm	277-1523-ND	1.41	1.27	1.13	0800886
DIN Rail					
NS 15 PERF 1 METER	277-1509-ND	9.13	8.22	7.30	5602099
NS 35/7.5 PERF 1 METER	277-1510-ND	10.35	9.32	8.28	5602100
Fuse Plugs					
ST-SILA 250-UK 4	277-1551-ND	11.06	9.96	8.86	0921053
ST-SILED 24-UK 4	277-1552-ND	15.09	13.59	12.08	0921037
ST-SI-UK 4	277-1553-ND	4.06	3.66	3.25	0921011

Style	Description	Digi-Key Part No.	Price Each 1	10	100	Phoenix-Contact Part No.
	Marker Strips					
A	ZBFM 4/WH: UNPRINTED —-Unprinted, will Mark 100 Termination Points	277-1524-ND	9.34	8.41	7.48	0803579
B	ZBFM 4/WH: LGS: 1-100 — Preprinted 1-100, will Mark 100 Termination Points	277-1522-ND	14.08	12.68	11.27	0800268
A	ZBFM 8/WH: UNPRINTED	277-1575-ND	10.03	9.04	8.03	0800734
C	ZB 4: UNPRINTED —-Unprinted, will Mark 10 Termination Points	277-1525-ND	1.65	1.49	1.33	0805001
D	ZB 5: UNPRINTED —-Unprinted, will Mark 10 Termination Points	277-1472-ND	.97	.88	.78	1050004
E	ZB 6: UNPRINTED —-Unprinted, will Mark 10 Termination Points	277-1473-ND	.97	.88	.78	1051003
F	ZB 8: UNPRINTED —-Unprinted, will Mark 10 Termination Points	277-1475-ND	1.06	.96	.85	1052002
G	ZB 10: UNPRINTED —-Unprinted, will Mark 10 Termination Points	277-1476-ND	1.61	1.45	1.29	1053001
H	ZB 5, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1528-ND	1.44	1.30	1.15	1050017:0001
I	ZB 6, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1530-ND	1.44	1.30	1.15	1051016:0001
J	ZB 8, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1532-ND	2.20	1.99	1.77	1052015:0001
K	ZB 10, LGS: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1534-ND	2.23	2.01	1.79	1053014:0001
L	ZB 5, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1529-ND	1.44	1.30	1.15	1050017:0011
M	ZB 6, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1531-ND	1.44	1.30	1.15	1051016:0011
N	ZB 8, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1533-ND	2.20	1.99	1.77	1052015:0011
O	ZB 10, LGS: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1535-ND	2.23	2.01	1.79	1053014:0011
P	ZB 4, QR: 1-10 — Preprinted 1-10, will Mark 10 Termination Points	277-1526-ND	2.26	2.04	1.81	0805807:0001
Q	ZB 4, QR: 11-20 — Preprinted 11-20, will Mark 10 Termination Points	277-1527-ND	2.26	2.04	1.81	0805807:0011

Fig. 1

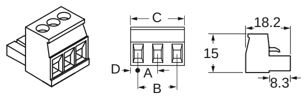

Specifications:
UL: 300 V @ 10 A. 12-30 AWG.
IEC: 250 V @ 12 A. 12-24 AWG. **Color:** Green

Fig. 2

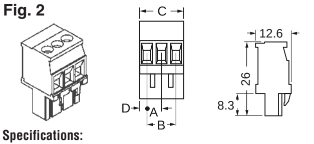

Specifications:
UL: 300 V @ 10 A. 12-30 AWG.
IEC: 250 V @ 12 A. 12-24 AWG. **Color:** Green

Fig. 3

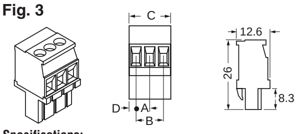

Specifications:
UL: 300 V @ 10 A. 12-30 AWG.
IEC: 250 V @ 12 A. 12-24 AWG. **Color:** Green

Fig. 4

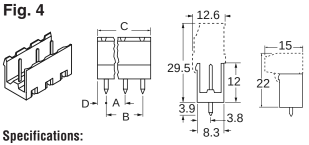

Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 5

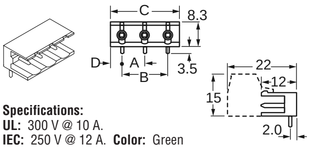

Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 6

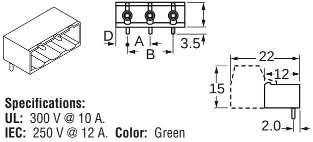

Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 7

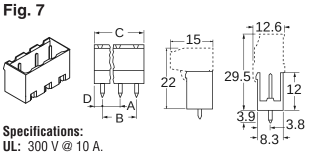

Specifications:
UL: 300 V @ 10 A.
IEC: 250 V @ 12 A. **Color:** Green

Fig. 8

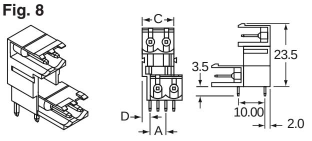

Specifications:
UL: 300 V @ 10 A. **IEC:** 250 V @ 10 A. **Color:** Green

No. of Pos.	Dimensions (mm)				Digi-Key Part No.	Price Each			Phoenix Contact Type No.	Phoenix Contact Part No.
	A	B	C	D		1	10	100		
Fig. 1 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1000-ND	1.53	1.38	1.23	MSTB 2.5/2-ST	1754449
3	5.0	10	15	2.5	277-1001-ND	2.30	2.08	1.85	MSTB 2.5/3-ST	1754465
4	5.0	15	20	2.5	277-1002-ND	3.07	2.76	2.46	MSTB 2.5/4-ST	1754481
5	5.0	20	25	2.5	277-1003-ND	3.80	3.43	3.05	MSTB 2.5/5-ST	1754504
6	5.0	25	30	2.5	277-1004-ND	4.56	4.11	3.66	MSTB 2.5/6-ST	1754520
7	5.0	30	35	2.5	277-1005-ND	5.38	4.85	4.31	MSTB 2.5/7-ST	1754546
8	5.0	35	40	2.5	277-1006-ND	6.12	5.51	4.90	MSTB 2.5/8-ST	1754562
9	5.0	40	45	2.5	277-1007-ND	6.91	6.22	5.53	MSTB 2.5/9-ST	1754588
10	5.0	45	50	2.5	277-1008-ND	7.63	6.87	6.11	MSTB 2.5/10-ST	1754601
11	5.0	50	55	2.5	277-1009-ND	8.42	7.58	6.74	MSTB 2.5/11-ST	1754627
12	5.0	55	60	2.5	277-1010-ND	9.20	8.28	7.36	MSTB 2.5/12-ST	1754643
Fig. 1 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1011-ND	1.53	1.38	1.23	MSTB 2.5/2-ST-5.08	1757019
3	5.08	10.16	15.24	2.54	277-1012-ND	2.30	2.08	1.85	MSTB 2.5/3-ST-5.08	1757022
4	5.08	15.24	20.32	2.54	277-1013-ND	3.07	2.76	2.46	MSTB 2.5/4-ST-5.08	1757035
5	5.08	20.32	25.40	2.54	277-1014-ND	3.80	3.43	3.05	MSTB 2.5/5-ST-5.08	1757048
6	5.08	25.40	30.48	2.54	277-1015-ND	4.56	4.11	3.66	MSTB 2.5/6-ST-5.08	1757051
7	5.08	30.48	35.56	2.54	277-1016-ND	5.34	4.81	4.28	MSTB 2.5/7-ST-5.08	1757064
8	5.08	35.56	40.64	2.54	277-1017-ND	6.08	5.47	4.87	MSTB 2.5/8-ST-5.08	1757077
9	5.08	40.64	45.72	2.54	277-1018-ND	6.87	6.18	5.50	MSTB 2.5/9-ST-5.08	1757080
10	5.08	45.72	50.80	2.54	277-1019-ND	7.63	6.87	6.11	MSTB 2.5/10-ST-5.08	1757093
11	5.08	50.80	55.88	2.54	277-1020-ND	8.42	7.58	6.74	MSTB 2.5/11-ST-5.08	1757103
12	5.08	55.88	60.96	2.54	277-1021-ND	9.14	8.23	7.32	MSTB 2.5/12-ST-5.08	1757116
Fig. 2 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1029-ND	1.79	1.61	1.43	MVSTBR 2.5/2-ST	1792016
3	5.0	10	15	2.5	277-1030-ND	2.62	2.36	2.10	MVSTBR 2.5/3-ST	1792029
4	5.0	15	20	2.5	277-1031-ND	3.53	3.18	2.83	MVSTBR 2.5/4-ST	1792032
5	5.0	20	25	2.5	277-1032-ND	4.43	3.99	3.55	MVSTBR 2.5/5-ST	1792045
6	5.0	25	30	2.5	277-1033-ND	5.31	4.79	4.26	MVSTBR 2.5/6-ST	1792058
7	5.0	30	35	2.5	277-1034-ND	6.20	5.58	4.96	MVSTBR 2.5/7-ST	1792061
8	5.0	35	40	2.5	277-1035-ND	7.07	6.37	5.66	MVSTBR 2.5/8-ST	1792074
9	5.0	40	45	2.5	277-1036-ND	7.96	7.17	6.37	MVSTBR 2.5/9-ST	1792087
10	5.0	45	50	2.5	277-1037-ND	8.82	7.94	7.06	MVSTBR 2.5/10-ST	1792090
11	5.0	50	55	2.5	277-1038-ND	9.73	8.76	7.79	MVSTBR 2.5/11-ST	1792100
12	5.0	55	60	2.5	277-1039-ND	10.60	9.54	8.49	MVSTBR 2.5/12-ST	1792113
Fig. 2 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1040-ND	1.77	1.60	1.42	MVSTBR 2.5/2-ST-5.08	1792249
3	5.08	10.16	15.24	2.54	277-1041-ND	2.60	2.35	2.09	MVSTBR 2.5/3-ST-5.08	1792252
4	5.08	15.24	20.32	2.54	277-1042-ND	3.52	3.17	2.82	MVSTBR 2.5/4-ST-5.08	1792265
5	5.08	20.32	25.40	2.54	277-1043-ND	4.43	3.99	3.55	MVSTBR 2.5/5-ST-5.08	1792278
6	5.08	25.40	30.48	2.54	277-1044-ND	5.31	4.79	4.26	MVSTBR 2.5/6-ST-5.08	1792281
7	5.08	30.48	35.56	2.54	277-1045-ND	6.20	5.58	4.96	MVSTBR 2.5/7-ST-5.08	1792294
8	5.08	35.56	40.64	2.54	277-1046-ND	7.07	6.37	5.66	MVSTBR 2.5/8-ST-5.08	1792304
9	5.08	40.64	45.72	2.54	277-1047-ND	7.96	7.17	6.37	MVSTBR 2.5/9-ST-5.08	1792317
10	5.08	45.72	50.80	2.54	277-1048-ND	8.82	7.94	7.06	MVSTBR 2.5/10-ST-5.08	1792320
11	5.08	50.80	55.88	2.54	277-1049-ND	9.73	8.76	7.79	MVSTBR 2.5/11-ST-5.08	1792333
12	5.08	55.88	60.96	2.54	277-1050-ND	10.60	9.54	8.49	MVSTBR 2.5/12-ST-5.08	1792346
Fig. 3 — 5mm Connector Terminal Block Plug										
2	5.0	5	10	2.5	277-1051-ND	1.79	1.61	1.43	MVSTBW 2.5/2-ST	1792524
3	5.0	10	15	2.5	277-1052-ND	2.62	2.36	2.10	MVSTBW 2.5/3-ST	1792537
4	5.0	15	20	2.5	277-1053-ND	3.53	3.18	2.83	MVSTBW 2.5/4-ST	1792540
5	5.0	20	25	2.5	277-1054-ND	4.43	3.99	3.55	MVSTBW 2.5/5-ST	1792553
6	5.0	25	30	2.5	277-1055-ND	5.31	4.79	4.26	MVSTBW 2.5/6-ST	1792566
7	5.0	30	35	2.5	277-1056-ND	6.20	5.58	4.96	MVSTBW 2.5/7-ST	1792579
8	5.0	35	40	2.5	277-1057-ND	7.07	6.37	5.66	MVSTBW 2.5/8-ST	1792582
9	5.0	40	45	2.5	277-1058-ND	7.96	7.17	6.37	MVSTBW 2.5/9-ST	1792595
10	5.0	45	50	2.5	277-1059-ND	8.82	7.94	7.06	MVSTBW 2.5/10-ST	1792605
11	5.0	50	55	2.5	277-1060-ND	9.73	8.76	7.79	MVSTBW 2.5/11-ST	1792618
12	5.0	55	60	2.5	277-1061-ND	10.60	9.54	8.49	MVSTBW 2.5/12-ST	1792621
Fig. 3 — 5.08mm Connector Terminal Block Plug										
2	5.08	5.08	10.16	2.54	277-1062-ND	1.77	1.60	1.42	MVSTBW 2.5/2-ST-5.08	1792757
3	5.08	10.16	15.24	2.54	277-1063-ND	2.60	2.35	2.09	MVSTBW 2.5/3-ST-5.08	1792760
4	5.08	15.24	20.32	2.54	277-1064-ND	3.52	3.17	2.82	MVSTBW 2.5/4-ST-5.08	1792773
5	5.08	20.32	25.40	2.54	277-1065-ND	4.43	3.99	3.55	MVSTBW 2.5/5-ST-5.08	1792786
6	5.08	25.40	30.48	2.54	277-1066-ND	5.31	4.79	4.26	MVSTBW 2.5/6-ST-5.08	1792799
7	5.08	30.48	35.56	2.54	277-1067-ND	6.20	5.58	4.96	MVSTBW 2.5/7-ST-5.08	1792809
8	5.08	35.56	40.64	2.54	277-1068-ND	7.07	6.37	5.66	MVSTBW 2.5/8-ST-5.08	1792812
9	5.08	40.64	45.72	2.54	277-1069-ND	7.96	7.17	6.37	MVSTBW 2.5/9-ST-5.08	1792825
10	5.08	45.72	50.80	2.54	277-1070-ND	8.82	7.94	7.06	MVSTBW 2.5/10-ST-5.08	1792838
11	5.08	50.80	55.88	2.54	277-1071-ND	9.73	8.76	7.79	MVSTBW 2.5/11-ST-5.08	1792841
12	5.08	55.88	60.96	2.54	277-1072-ND	10.60	9.54	8.49	MVSTBW 2.5/12-ST-5.08	1792854
Fig. 4 — 5mm Connector Header — Vertical										
2	5.0	5	10	2.5	277-1073-ND	.53	.48	.43	MSTBV 2.5/2-G	1753437
3	5.0	10	15	2.5	277-1074-ND	.80	.73	.65	MSTBV 2.5/3-G	1753453
4	5.0	15	20	2.5	277-1075-ND	1.08	.97	.87	MSTBV 2.5/4-G	1753479
5	5.0	20	25	2.5	277-1076-ND	1.35	1.22	1.08	MSTBV 2.5/5-G	1753495
6	5.0	25	30	2.5	277-1077-ND	1.59	1.44	1.28	MSTBV 2.5/6-G	1753518
7	5.0	30	35	2.5	277-1078-ND	1.87	1.68	1.50	MSTBV 2.5/7-G	1753534
8	5.0	35	40	2.5	277-1079-ND	2.13	1.92	1.71	MSTBV 2.5/8-G	1753550
9	5.0	40	45	2.5	277-1080-ND	2.40	2.16	1.92	MSTBV 2.5/9-G	1753576
10	5.0	45	50	2.5	277-1081-ND	2.66	2.40	2.13	MSTBV 2.5/10-G	1753592
11	5.0	50	55	2.5	277-1082-ND	2.94	2.65	2.36	MSTBV 2.5/11-G	1753615
12	5.0	55	60	2.5	277-1083-ND	3.22	2.90	2.58	MSTBV 2.5/12-G	1753631
Fig. 4 — 5.08mm Connector Header — Vertical										
2	5.08	5.08	10.16	2.54	277-1128-ND	.53	.48	.43	MSTBV 2.5/2-G-5.08	1758018
3	5.08	10.16	15.24	2.54	277-1129-ND	.80	.73	.65	MSTBV 2.5/3-G-5.08	1758021
4	5.08	15.24	20.32	2.54	277-1130-ND	1.06	.96	.86	MSTBV 2.5/4-G-5.08	1758034
5	5.08	20.32	25.40	2.54	277-1131-ND	1.35	1.22	1.08	MSTBV 2.5/5-G-5.08	1758047
6	5.08	25.40	30.48	2.54	277-1132-ND	1.59	1.44	1.28	MSTBV 2.5/6-G-5.08	1758050
7	5.08	30.48	35.56	2.54	277-1133-ND	1.87	1.68	1.50	MSTBV 2.5/7-G-5.08	1758063
8	5.08	35.56	40.64	2.54	277-1134-ND	2.13	1.92	1.71	MSTBV 2.5/8-G-5.08	1758076
9	5.08	40.64	45.72	2.54	277-1135-ND	2.40	2.16	1.92	MSTBV 2.5/9-G-5.08	1758089
10	5.08	45.72	50.80	2.54	277-1136-ND	2.66	2.40	2.13	MSTBV 2.5/10-G-5.08	1758092
11	5.08	50.80	55.88	2.54	277-1137-ND	2.94	2.65	2.36	MSTBV 2.5/11-G-5.08	1758102
12	5.08	55.88	60.96	2.54	277-1138-ND	3.22	2.90	2.58	MSTBV 2.5/12-G-5.08	1758115
Fig. 5 — 5mm Connector Header — Right Angle										
2	5.0	5	10	2.5	277-1084-ND	.53	.48	.43	MSTB 2.5/2-G	1754436
3	5.0	10	15	2.5	277-1085-ND	.80	.73	.65	MSTB 2.5/3-G	1754452
4	5.0	15	20	2.5	277-1086-ND	1.08	.97	.87	MSTB 2.5/4-G	1754478
5	5.0	20	25	2.5	277-1087-ND	1.35	1.22	1.08	MSTB 2.5/5-G	1754494
6	5.0	25	30	2.5	277-1088-ND	1.59	1.44	1.28	MSTB 2.5/6-G	1754517
7	5.0	30	35	2.5	277-1089-ND	1.87	1.68	1.50	MSTB 2.5/7-G	1754533
8	5.0	35	40	2.5	277-1090-ND	2.13	1.92	1.71	MSTB 2.5/8-G	1754559
9	5.0	40	45	2.5	277-1091-ND	2.40	2.16	1.92	MSTB 2.5/9-G	1754575
10	5.0	45	50	2.5	277-1092-ND	2.66	2.40	2.13	MSTB 2.5/10-G	1754591
11	5.0	50	55	2.5	277-1093-ND	2.94	2.65	2.36	MSTB 2.5/11-G	1754614
12	5.0	55	60	2.5	277-1094-ND	3.22	2.90	2.58	MSTB 2.5/12-G	1754630
Fig. 5 — 5.08mm Connector Header — Right Angle										
2	5.08	5.08	10.16	2.54	277-1095-ND	.53	.48	.43	MSTB 2.5/2-G-5.08	1759017
3	5.08	10.16	15.24	2.54	277-1096-ND	.80	.73	.65	MSTB 2.5/3-G-5.08	1759020
4	5.08	15.24	20.32	2.54	277-1097-ND	1.08	.97	.87	MSTB 2.5/4-G-5.08	1759033
5	5.08	20.32	25.40	2.54	277-1098-ND	1.35	1.22	1.08	MSTB 2.5/5-G-5.08	1759046
6	5.08	25.40	30.48	2.54	277-1099-ND	1.59	1.44	1.28	MSTB 2.5/6-G-5.08	1759059
7	5.08	30.48	35.56	2.54	277-1100-ND	1.87	1.68	1.50	MSTB 2.5/7-G-5.08	1759062
8	5.08	35.56	40.64	2.54	277-1101-ND	2.13	1.92	1.71	MSTB 2.5/8-G-5.08	1759075
9	5.08	40.64	45.72	2.54	277-1102-ND	2.40	2.16	1.92	MSTB 2.5/9-G-5.08	1759088
10	5.08	45.72	50.80	2.54	277-1103-ND	2.66	2.40	2.13	MSTB 2.5/10-G-5.08	1759091
11	5.08	50.80	55.88	2.54	277-1104-ND	2.94	2.65	2.36	MSTB 2.5/11-G-5.08	1759101
12	5.08	55.88	60.96	2.54	277-1105-ND	3.22	2.90	2.58	MSTB 2.5/12-G-5.08	1759114
Fig. 6 — 5mm Connector Header — Right Angle										
2	5.0	5	12	3.5	277-1117-ND	.53	.48	.43	MSTBA 2.5/2-G	1757475
3	5.0	10	17	3.5	277-1118-ND	.80	.73	.65	MSTBA 2.5/3-G	1757488
4	5.0	15	22	3.5	277-1119-ND	1.06	.96	.86	MSTBA 2.5/4-G	1757491
5	5.0	20	27	3.5	277-1120-ND	1.34	1.21	1.07	MSTBA 2.5/5-G	1757501
6	5.0	25	32	3.5	277-1121-ND	1.58	1.43	1.27	MSTBA 2.5/6-G	1757514
7	5.0	30	37	3.5	277-1122-ND	1.87	1.68	1.50	MSTBA 2.5/7-G	1755493
8	5.0	35	42	3.5	277-1123-ND	2.11	1.91	1.69	MSTBA 2.5/8-G	1757527
9	5.0	40	47	3.5	277-1124-ND	2.40	2.16	1.92	MSTBA 2.5/9-G	1757530
10	5.0	45	52	3.5	277-1125-ND	2.64	2.38	2.12	MSTBA 2.5/10-G	1757543
11	5.0	50	57	3.5	277-1126-ND	2.94	2.65	2.36	MSTBA 2.5/11-G	1757556
12	5.0	55	62	3.5	277-1127-ND	3.22	2.90	2.58	MSTBA 2.5/12-G	1757569
Fig. 6 — 5.08mm Connector Header — Right Angle										
2	5.08	5.08	12.16	3.54	277-1106-ND	.53	.48	.43	MSTBA 2.5/2-G-5.08	1757242
3	5.08	10.16	17.24	3.54	277-1107-ND	.80	.73	.65	MSTBA 2.5/3-G-5.08	1757255
4	5.08	15.24	22.32	3.54	277-1108-ND	1.06	.96	.86	MSTBA 2.5/4-G-5.08	1757268
5	5.08	20.32	27.40	3.54	277-1109-ND	1.34	1.21	1.07	MSTBA 2.5/5-G-5.08	1757271
6	5.08	25.40	32.48	3.54	277-1110-ND	1.58	1.43	1.27	MSTBA 2.5/6-G-5.08	1757284
7	5.08	30.48	37.56	3.54	277-1111-ND	1.87	1.68	1.50	MSTBA 2.5/7-G-5.08	1757297
8	5.08	35.56	42.64	3.54	277-1112-ND	2.11	1.91	1.69	MSTBA 2.5/8-G-5.08	1757307
9	5.08	40.64	47.72	3.54	277-1113-ND	2.40	2.16	1.92	MSTBA 2.5/9-G-5.08	1757310
10	5.08	45.72	52.80	3.54	277-1114-ND	2.64	2.38	2.12	MSTBA 2.5/10-G-5.08	1757323
11	5.08	50.80	57.88	3.54	277-1115-ND	2.94	2.65	2.36	MSTBA 2.5/11-G-5.08	1757336
12	5.08	55.88	62.96	3.54	277-1116-ND	3.19	2.87	2.56	MSTBA 2.5/12-G-5.08	1757349
Fig. 7 — 5mm Connector Header — Vertical										
2	5.0	5	12	3.5	277-1140-ND	.53	.48	.43	MSTBVA 2.5/2-G	1755516
3	5.0	10	17	3.5	277-1141-ND	.80	.73	.65	MSTBVA 2.5/3-G	1755529
4	5.0	15	22	3.5	277-1142-ND	1.06	.96	.86	MSTBVA 2.5/4-G	1755532
5	5.0	20	27	3.5	277-1143-ND	1.35	1.22	1.08	MSTBVA 2.5/5-G	1755545
6	5.0	25	32	3.5	277-1144-ND	1.58	1.43	1.27	MSTBVA 2.5/6-G	1755558
7	5.0	30	37	3.5	277-1145-ND	1.87	1.68	1.50	MSTBVA 2.5/7-G	1755561
8	5.0	35	42	3.5	277-1146-ND	2.11	1.91	1.69	MSTBVA 2.5/8-G	1755574
9	5.0	40	47	3.5	277-1147-ND	2.40	2.16	1.92	MSTBVA 2.5/9-G	1755587
10	5.0	45	52	3.5	277-1139-ND	2.66	2.40	2.13	MSTBVA 2.5/10-G	1755503
11	5.0	50	57	3.5	277-1148-ND	2.94	2.65	2.36	MSTBVA 2.5/11-G	1755590
12	5.0	55	62	3.5	277-1149-ND	3.22	2.90	2.58	MSTBVA 2.5/12-G	1755600

(Continued)

Fig. 9

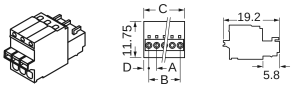

Specifications:
UL: 125 V @ 4 A, 20-28 AWG.
IEC: 100 V @ 4 A, 20-28 AWG. **Color:** Green

Fig. 10

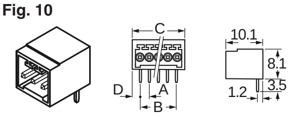

Specifications:
UL: 125 V @ 4 A. **IEC:** 80 V @ 4 A. **Color:** Green

Fig. 11

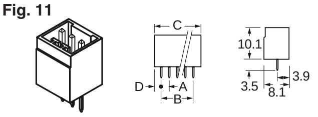

Specifications:
UL: 125 V @ 4 A. **IEC:** 80 V @ 4 A. **Color:** Green

Fig. 12

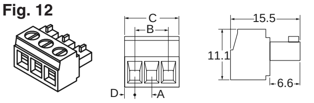

Specifications:
UL: 300 V @ 8 A. 14-30 AWG.
IEC: 125 V @ 8 A. 16-28 AWG. **Color:** Green

Fig. 13

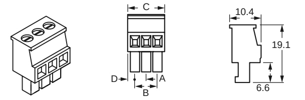

Specifications:
UL: 300 V @ 8 A. 14-30 AWG.
IEC: 125 V @ 8 A. 16-28 AWG. **Color:** Green

Fig. 14

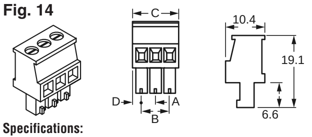

Specifications:
UL: 300 V @ 8 A. 14-30 AWG.
IEC: 125 V @ 8 A. 16-28 AWG. **Color:** Green

Fig. 15

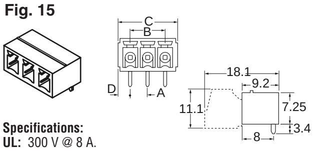

Specifications:
UL: 300 V @ 8 A.
IEC: 125 V @ 8 A. **Color:** Green

Fig. 16

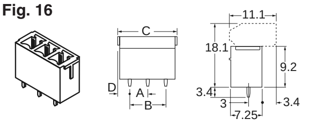

Specifications:
UL: 300 V @ 8 A.
IEC: 125 V @ 8 A. **Color:** Green

Fig. 17

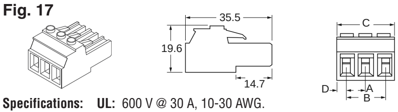

Specifications: **UL:** 600 V @ 30 A, 10-30 AWG.
IEC: 800 V @ 20 A, 10-24 AWG. **Color:** Green

Fig. 18

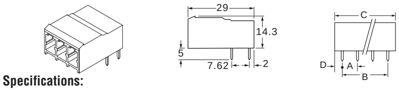

Specifications:
UL: 600 V @ 30 A. **IEC:** 400 V @ 20 A. **Color:** Green

Fig. 19

Specifications:
UL: 600 V @ 30 A.
IEC: 400 V @ 20 A.
Color: Green

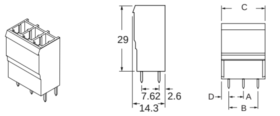

No. of Pos.	Dimensions (mm)				Digi-Key Part No.	Price Each			Phoenix Contact Type No.	Phoenix Contact Part No.
	A	B	C	D		1	10	100		
Fig. 7 — 5.08mm Connector Header — Vertical										
2	5.08	5.08	12.16	3.54	277-1150-ND	.53	.48	.43	MSTBVA 2.5/2-G-5.08	1755736
3	5.08	10.16	17.24	3.54	277-1151-ND	.80	.73	.65	MSTBVA 2.5/3-G-5.08	1755749
4	5.08	15.24	22.32	3.54	277-1152-ND	1.06	.96	.86	MSTBVA 2.5/4-G-5.08	1755752
5	5.08	20.32	27.40	3.54	277-1153-ND	1.34	1.21	1.07	MSTBVA 2.5/5-G-5.08	1755765
6	5.08	25.40	32.48	3.54	277-1154-ND	1.58	1.43	1.27	MSTBVA 2.5/6-G-5.08	1755778
7	5.08	30.48	37.56	3.54	277-1155-ND	1.85	1.67	1.49	MSTBVA 2.5/7-G-5.08	1755781
8	5.08	35.56	42.64	3.54	277-1156-ND	2.11	1.91	1.69	MSTBVA 2.5/8-G-5.08	1755794
9	5.08	40.64	47.72	3.54	277-1157-ND	2.40	2.16	1.92	MSTBVA 2.5/9-G-5.08	1755804
10	5.08	45.72	52.80	3.54	277-1158-ND	2.64	2.38	2.12	MSTBVA 2.5/10-G-5.08	1755817
11	5.08	50.80	57.88	3.54	277-1159-ND	2.94	2.65	2.36	MSTBVA 2.5/11-G-5.08	1755820
12	5.08	55.88	62.96	3.54	277-1160-ND	3.19	2.87	2.56	MSTBVA 2.5/12-G-5.08	1755833
Fig. 8 — 5.0mm & 5.08mm Double Level PCB Header without Side Panels										
2	5.00	—	10.00	2.50	277-1379-ND	1.95	1.76	1.56	MDSTB 2.5/2-G	1762046
3	5.00	—	15.00	2.50	277-1380-ND	2.79	2.52	2.24	MDSTB 2.5/3-G	1762059
2	5.08	—	10.16	2.54	277-1381-ND	1.93	1.75	1.55	MDSTB 2.5/2-G-5.08	1762062
3	5.08	—	15.24	2.54	277-1382-ND	2.79	2.52	2.24	MDSTB 2.5/3-G-5.08	1762075
Fig. 9 — 2.5mm Spring Cage Terminal Block Plug										
2	2.5	2.5	5.6	1.55	277-1430-ND	2.90	2.62	2.33	FK-MC 0.5/2-ST-2.5	1881325
3	2.5	5.0	8.1	1.55	277-1431-ND	3.92	3.54	3.14	FK-MC 0.5/3-ST-2.5	1881338
4	2.5	7.5	10.6	1.55	277-1432-ND	4.95	4.46	3.96	FK-MC 0.5/4-ST-2.5	1881341
5	2.5	10.0	13.1	1.55	277-1433-ND	5.93	5.34	4.75	FK-MC 0.5/5-ST-2.5	1881354
6	2.5	12.5	15.6	1.55	277-1434-ND	6.96	6.27	5.57	FK-MC 0.5/6-ST-2.5	1881367
7	2.5	15.0	18.1	1.55	277-1435-ND	7.97	7.18	6.38	FK-MC 0.5/7-ST-2.5	1881370
8	2.5	17.5	20.6	1.55	277-1436-ND	9.05	8.15	7.24	FK-MC 0.5/8-ST-2.5	1881383
9	2.5	20.0	23.1	1.55	277-1437-ND	10.01	9.02	8.02	FK-MC 0.5/9-ST-2.5	1881396
10	2.5	22.5	25.6	1.55	277-1438-ND	11.08	9.97	8.87	FK-MC 0.5/10-ST-2.5	1881406
11	2.5	25.0	28.1	1.55	277-1439-ND	12.04	10.84	9.64	FK-MC 0.5/11-ST-2.5	1881419
12	2.5	27.5	30.6	1.55	277-1440-ND	13.11	11.80	10.49	FK-MC 0.5/12-ST-2.5	1881422
Fig. 10 — 2.5mm Connector Header - Right Angle										
2	2.5	2.5	6.9	2.2	277-1441-ND	.68	.62	.55	MC 0.5/2-G-2.5	1881448
3	2.5	5.0	9.4	2.2	277-1442-ND	.98	.89	.79	MC 0.5/3-G-2.5	1881451
4	2.5	7.5	11.9	2.2	277-1443-ND	1.31	1.18	1.05	MC 0.5/4-G-2.5	1881464
5	2.5	10.0	14.4	2.2	277-1444-ND	1.61	1.45	1.29	MC 0.5/5-G-2.5	1881477
6	2.5	12.5	16.9	2.2	277-1445-ND	1.91	1.72	1.53	MC 0.5/6-G-2.5	1881480
7	2.5	15.0	19.4	2.2	277-1446-ND	2.19	1.98	1.76	MC 0.5/7-G-2.5	1881493
8	2.5	17.5	21.9	2.2	277-1447-ND	2.51	2.26	2.01	MC 0.5/8-G-2.5	1881503
9	2.5	20.0	24.4	2.2	277-1448-ND	2.81	2.53	2.25	MC 0.5/9-G-2.5	1881516
10	2.5	22.5	26.9	2.2	277-1449-ND	3.12	2.81	2.50	MC 0.5/10-G-2.5	1881529
11	2.5	25.0	29.4	2.2	277-1450-ND	3.41	3.07	2.73	MC 0.5/11-G-2.5	1881532
12	2.5	27.5	31.9	2.2	277-1451-ND	3.72	3.35	2.98	MC 0.5/12-G-2.5	1881545
Fig. 11 — 2.5mm Connector Header - Vertical										
2	2.5	2.5	6.9	2.2	277-1452-ND	.68	.62	.55	MCV 0.5/2-G-2.5	1881558
3	2.5	5.0	9.4	2.2	277-1453-ND	.98	.89	.79	MCV 0.5/3-G-2.5	1881561
4	2.5	7.5	11.9	2.2	277-1454-ND	1.31	1.18	1.05	MCV 0.5/4-G-2.5	1881574
5	2.5	10.0	14.4	2.2	277-1455-ND	1.61	1.45	1.29	MCV 0.5/5-G-2.5	1881587
6	2.5	12.5	16.9	2.2	277-1456-ND	1.91	1.72	1.53	MCV 0.5/6-G-2.5	1881590
7	2.5	15.0	19.4	2.2	277-1457-ND	2.19	1.98	1.76	MCV 0.5/7-G-2.5	1881600
8	2.5	17.5	21.9	2.2	277-1458-ND	2.51	2.26	2.01	MCV 0.5/8-G-2.5	1881613
9	2.5	20.0	24.4	2.2	277-1459-ND	2.81	2.53	2.25	MCV 0.5/9-G-2.5	1881626
10	2.5	22.5	26.9	2.2	277-1460-ND	3.12	2.81	2.50	MCV 0.5/10-G-2.5	1881639
11	2.5	25.0	29.4	2.2	277-1461-ND	3.41	3.07	2.73	MCV 0.5/11-G-2.5	1881642
12	2.5	27.5	31.9	2.2	277-1462-ND	3.72	3.35	2.98	MCV 0.5/12-G-2.5	1881655
Fig. 12 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1161-ND	1.99	1.79	1.60	MC 1.5/2-ST-3.81	1803578
3	3.81	7.62	12.22	2.3	277-1162-ND	2.68	2.42	2.15	MC 1.5/3-ST-3.81	1803581
4	3.81	11.43	16.03	2.3	277-1163-ND	3.56	3.21	2.85	MC 1.5/4-ST-3.81	1803594
5	3.81	15.24	19.84	2.3	277-1164-ND	4.50	4.05	3.60	MC 1.5/5-ST-3.81	1803604
6	3.81	19.05	23.65	2.3	277-1165-ND	5.35	4.82	4.29	MC 1.5/6-ST-3.81	1803617
7	3.81	22.86	27.46	2.3	277-1166-ND	6.31	5.68	5.05	MC 1.5/7-ST-3.81	1803620
8	3.81	26.67	31.27	2.3	277-1167-ND	7.13	6.42	5.71	MC 1.5/8-ST-3.81	1803633
9	3.81	30.48	35.08	2.3	277-1168-ND	8.09	7.29	6.48	MC 1.5/9-ST-3.81	1803646
10	3.81	34.29	38.89	2.3	277-1169-ND	8.94	8.05	7.16	MC 1.5/10-ST-3.81	1803659
11	3.81	38.10	42.70	2.3	277-1170-ND	9.89	8.91	7.92	MC 1.5/11-ST-3.81	1803662
12	3.81	41.91	46.51	2.3	277-1171-ND	10.78	9.70	8.63	MC 1.5/12-ST-3.81	1803675
13	3.81	45.72	50.32	2.3	277-1172-ND	11.61	10.45	9.29	MC 1.5/13-ST-3.81	1803688
14	3.81	49.53	54.13	2.3	277-1173-ND	12.59	11.34	10.08	MC 1.5/14-ST-3.81	1803691
15	3.81	53.34	57.94	2.3	277-1174-ND	13.49	12.14	10.80	MC 1.5/15-ST-3.81	1803701
16	3.81	57.15	61.75	2.3	277-1175-ND	14.37	12.94	11.50	MC 1.5/16-ST-3.81	1803714
Fig. 13 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1176-ND	1.95	1.76	1.56	MCVW 1.5/2-ST-3.81	1826979
3	3.81	7.62	12.22	2.3	277-1177-ND	2.90	2.62	2.33	MCVW 1.5/3-ST-3.81	1826982
4	3.81	11.43	16.03	2.3	277-1178-ND	3.86	3.47	3.09	MCVW 1.5/4-ST-3.81	1826995
5	3.81	15.24	19.84	2.3	277-1179-ND	4.85	4.37	3.89	MCVW 1.5/5-ST-3.81	1827004
6	3.81	19.05	23.65	2.3	277-1180-ND	5.80	5.23	4.65	MCVW 1.5/6-ST-3.81	1827017
7	3.81	22.86	27.46	2.3	277-1181-ND	6.77	6.10	5.42	MCVW 1.5/7-ST-3.81	1827020
8	3.81	26.67	31.27	2.3	277-1182-ND	7.75	6.98	6.21	MCVW 1.5/8-ST-3.81	1827033
9	3.81	30.48	35.08	2.3	277-1183-ND	8.73	7.86	6.99	MCVW 1.5/9-ST-3.81	1827046
10	3.81	34.29	38.89	2.3	277-1184-ND	9.67	8.71	7.74	MCVW 1.5/10-ST-3.81	1827059
11	3.81	38.10	42.70	2.3	277-1185-ND	10.65	9.59	8.53	MCVW 1.5/11-ST-3.81	1827062
12	3.81	41.91	46.51	2.3	277-1186-ND	11.65	10.49	9.32	MCVW 1.5/12-ST-3.81	1827075
13	3.81	45.72	50.32	2.3	277-1187-ND	12.59	11.34	10.08	MCVW 1.5/13-ST-3.81	1827088
14	3.81	49.53	54.13	2.3	277-1188-ND	13.57	12.22	10.86	MCVW 1.5/14-ST-3.81	1827091
15	3.81	53.34	57.94	2.3	277-1189-ND	14.55	13.10	11.65	MCVW 1.5/15-ST-3.81	1827101
16	3.81	57.15	61.75	2.3	277-1190-ND	15.51	13.96	12.41	MCVW 1.5/16-ST-3.81	1827114
Fig. 14 — 3.81mm Connector Terminal Block Plug										
2	3.81	3.81	8.41	2.3	277-1191-ND	1.95	1.76	1.56	MCVR 1.5/2-ST-3.81	1827127
3	3.81	7.62	12.22	2.3	277-1192-ND	2.90	2.62	2.33	MCVR 1.5/3-ST-3.81	1827130
4	3.81	11.43	16.03	2.3	277-1193-ND	3.86	3.47	3.09	MCVR 1.5/4-ST-3.81	1827143
5	3.81	15.24	19.84	2.3	277-1194-ND	4.85	4.37	3.89	MCVR 1.5/5-ST-3.81	1827156
6	3.81	19.05	23.65	2.3	277-1195-ND	5.80	5.23	4.65	MCVR 1.5/6-ST-3.81	1827169
7	3.81	22.86	27.46	2.3	277-1196-ND	6.77	6.10	5.42	MCVR 1.5/7-ST-3.81	1827172
8	3.81	26.67	31.27	2.3	277-1197-ND	7.75	6.98	6.21	MCVR 1.5/8-ST-3.81	1827185
9	3.81	30.48	35.08	2.3	277-1198-ND	8.73	7.86	6.99	MCVR 1.5/9-ST-3.81	1827198
10	3.81	34.29	38.89	2.3	277-1199-ND	9.67	8.71	7.74	MCVR 1.5/10-ST-3.81	1827208
11	3.81	38.10	42.70	2.3	277-1200-ND	10.65	9.59	8.53	MCVR 1.5/11-ST-3.81	1827211
12	3.81	41.91	46.51	2.3	277-1201-ND	11.65	10.49	9.32	MCVR 1.5/12-ST-3.81	1827224
13	3.81	45.72	50.32	2.3	277-1202-ND	12.59	11.34	10.08	MCVR 1.5/13-ST-3.81	1827237
14	3.81	49.53	54.13	2.3	277-1203-ND	13.57	12.22	10.86	MCVR 1.5/14-ST-3.81	1827240
15	3.81	53.34	57.94	2.3	277-1204-ND	14.55	13.10	11.65	MCVR 1.5/15-ST-3.81	1827253
16	3.81	57.15	61.75	2.3	277-1205-ND	15.51	13.96	12.41	MCVR 1.5/16-ST-3.81	1827266
Fig. 15 — 3.81mm Connector Header — Right Angle										
2	3.81	3.81	9.01	2.6	277-1206-ND	.61	.56	.50	MC 1.5/2-G-3.81	1803277
3	3.81	7.62	12.82	2.6	277-1207-ND	.94	.85	.76	MC 1.5/3-G-3.81	1803280
4	3.81	11.43	16.63	2.6	277-1208-ND	1.25	1.13	1.01	MC 1.5/4-G-3.81	1803293
5	3.81	15.24	20.44	2.6	277-1209-ND	1.54	1.39	1.24	MC 1.5/5-G-3.81	1803303
6	3.81	19.05	24.25	2.6	277-1210-ND	1.88	1.70	1.51	MC 1.5/6-G-3.81	1803316
7	3.81	22.86	28.06	2.6	277-1211-ND	2.19	1.98	1.76	MC 1.5/7-G-3.81	1803329
8	3.81	26.67	31.87	2.6	277-1212-ND	2.49	2.25	2.00	MC 1.5/8-G-3.81	1803332
9	3.81	30.48	35.68	2.6	277-1213-ND	2.85	2.57	2.28	MC 1.5/9-G-3.81	1803345
10	3.81	34.29	39.49	2.6	277-1214-ND	3.12	2.81	2.50	MC 1.5/10-G-3.81	1803358
11	3.81	38.10	43.30	2.6	277-1215-ND	3.43	3.09	2.75	MC 1.5/11-G-3.81	1803361
12	3.81	41.91	47.11	2.6	277-1216-ND	3.75	3.38	3.00	MC 1.5/12-G-3.81	1803374
13	3.81	45.72	50.92	2.6	277-1217-ND	4.06	3.66	3.25	MC 1.5/13-G-3.81	1803387
14	3.81	49.53	54.73	2.6	277-1218-ND	4.37	3.94	3.50	MC 1.5/14-G-3.81	1803390
15	3.81	53.34	58.54	2.6	277-1219-ND	4.69	4.22	3.75	MC 1.5/15-G-3.81	1803400
16	3.81	57.15	62.35	2.6	277-1220-ND	4.99	4.49	3.99	MC 1.5/16-G-3.81	1803413
Fig. 16 — 3.81mm Connector Header — Vertical										
2	3.81	3.81	9.01	2.6	277-1221-ND	.61	.56	.50	MCV 1.5/2-G-3.81	1803426
3	3.81	7.62	12.82	2.6	277-1222-ND	.94	.85	.76	MCV 1.5/3-G-3.81	1803439
4	3.81	11.43	16.63	2.6	277-1223-ND	1.25	1.13	1.01	MCV 1.5/4-G-3.81	1803442
5	3.81	15.24	20.44	2.6	277-1224-ND	1.54	1.39	1.24	MCV 1.5/5-G-3.81	1803455
6	3.81	19.05	24.25	2.6	277-1225-ND	1.87	1.68	1.50	MCV 1.5/6-G-3.81	1803468
7	3.81	22.86	28.06	2.6	277-1226-ND	2.19	1.98	1.76	MCV 1.5/7-G-3.81	1803471
8	3.81	26.67	31.87	2.6	277-1227-ND	2.47	2.22	1.98	MCV 1.5/8-G-3.81	1803484
9	3.81	30.48	35.68	2.6	277-1228-ND	2.85	2.57	2.28	MCV 1.5/9-G-3.81	1803497
10	3.81	34.29	39.49	2.6	277-1229-ND	3.12	2.81	2.50	MCV 1.5/10-G-3.81	1803507
11	3.81	38.10	43.30	2.6	277-1230-ND	3.43	3.09	2.75	MCV 1.5/11-G-3.81	1803510
12	3.81	41.91	47.11	2.6	277-1231-ND	3.77	3.40	3.02	MCV 1.5/12-G-3.81	1803523
13	3.81	45.72	50.92	2.6	277-1232-ND	4.06	3.66	3.25	MCV 1.5/13-G-3.81	1803536
14	3.81	49.53	54.73	2.6	277-1233-ND	4.37	3.94	3.50	MCV 1.5/14-G-3.81	1803549
15	3.81	53.34	58.54	2.6	277-1234-ND	4.69	4.22	3.75	MCV 1.5/15-G-3.81	1803552
16	3.81	57.15	62.35	2.6	277-1235-ND	4.99	4.49	3.99	MCV 1.5/16-G-3.81	1803565
Fig. 17 — 7.62mm Connector Terminal Block Plug										
2	7.62	7.62	15.22	3.8	277-1463-ND	4.21	3.79	3.37	PC 4 HV/2-ST-7.62	1848892
3	7.62	15.24	22.84	3.8	277-1464-ND	6.35	5.72	5.08	PC 4 HV/3-ST-7.62	1848902
4	7.62	22.86	30.46	3.8	277-1465-ND	8.43	7.60	6.75	PC 4 HV/4-ST-7.62	1848915
Fig. 18 — 7.62mm Connector Header — Right Angle										
2	7.62	7.62	15.22	3.8	277-1466-ND	2.74	2.47	2.20	PC 4/2-G-7.62	1804797
3	7.62	15.24	22.84	3.8	277-1467-ND	4.10	3.70	3.29	PC 4/3-G-7.62	1804807
4	7.62	22.86	30.46	3.8	277-1468-ND	5.41	4.87	4.33	PC 4/4-G-7.62	1804810
Fig. 19 — 7.62mm Connector Header — Vertical										
2	7.62	7.62	15.22	3.8	277-1469-ND	2.74	2.47	2.20	PCV 4/2-G-7.62	1804687
3	7.62	15.24	22.84	3.8	277-1470-ND	4.10	3.70	3.29	PCV 4/3-G-7.62	1804690
4	7.62	22.86	30.46	3.8	277-1471-ND	5.41	4.87	4.33	PCV 4/4-G-7.62	1804700

Micro-Pitch Terminal Blocks: The MPT 0.5 is the smallest screw terminal block available. With a micro-pitch of 2.54mm, the MPT 0.5 is ideal for high density applications.

Press Fit Terminal Blocks: The Press-Fit printed circuit board terminal block line is the perfect solution when wave soldering is not an option. The Press-Fit line is available in both fixed and pluggable styles.

Fig. 1

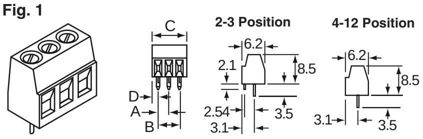

NOTE: The 2 and 3 position versions have an additional locating pin to support the mechanical load.
Specifications: UL: 125V @ 6A, 30-20 AWG
IEC: 63V @ 6A, 26-20 AWG **Color:** Green

Fig. 2

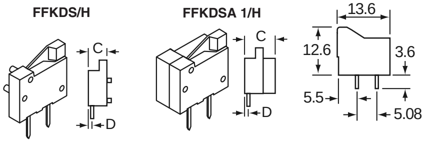

Specifications: UL: 150V @ 6A, 26-20 AWG
IEC: 63V @ 6A, 26-20 AWG **Color:** Green

Fig. 3

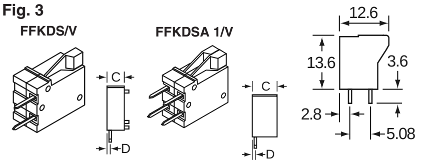

Specifications: UL: 150V @ 6A, 26-20 AWG
IEC: 63V @ 6A, 26-20 AWG **Color:** Green

Fig. 4

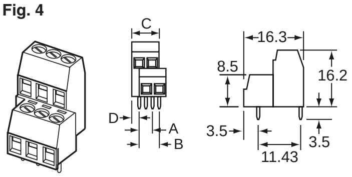

Specifications:
UL: 300V @ 10A, 30-16 AWG
IEC: 125V @ 10A, 26-16 AWG
Color: Green

Fig. 5

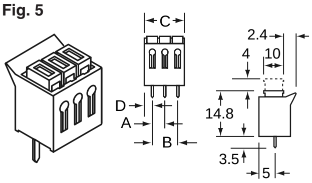

Specifications:
UL: 300V @ 5A, 28-22 AWG
IEC: 125V @ 5A, 26-22 AWG
Color: Green

Fig. 6

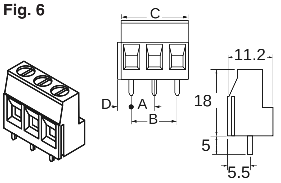

Specifications:
UL: 300V @ 15A, 12-30 AWG
IEC: 250V @ 32A, 12-24 AWG
Color: Green

Fig. 7

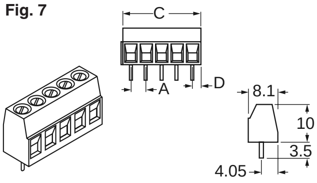

Specifications:
UL: 300V @ 10A, 14-30 AWG
IEC: 250V @ 16A, 16-26 AWG
Color: Green

Fig. 8

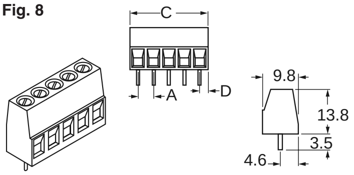

Specifications:
UL: 300V @ 10A, 14-30 AWG
IEC: 250V @ 24A, 14-26 AWG **Color:** Green

Fig. 9

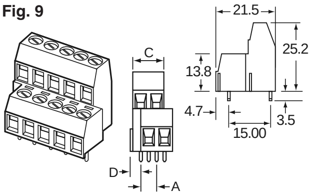

Specifications:
UL: 300V @ 10A, 30-14 AWG
IEC: 250V @ 24A, 26-14 AWG **Color:** Green

Fig. 10

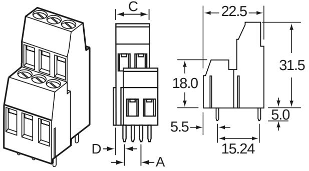

Specifications:
UL: 300V @ 10A, 30-12 AWG
IEC: 250V @ 22A, 24-12 AWG **Color:** Green

Fig. 11

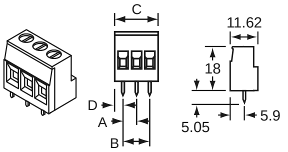

Specifications:
UL: 300V @ 10A, 30-12 AWG
IEC: 250V @ 12A, 28-14 AWG **Color:** Green

No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 1 — 2.54mm Micro-Pitch Terminal Blocks										
2	2.54	2.54	5.54	1.50	277-1273-ND	1.19	1.07	.95	MPT 0.5/2-2.54	1725656
3	2.54	5.08	8.08	1.50	277-1274-ND	1.79	1.61	1.43	MPT 0.5/3-2.54	1725669
4	2.54	7.62	10.62	1.50	277-1275-ND	2.38	2.15	1.91	MPT 0.5/4-2.54	1725672
5	2.54	10.16	13.16	1.50	277-1276-ND	2.98	2.69	2.39	MPT 0.5/5-2.54	1725685
6	2.54	12.70	15.70	1.50	277-1277-ND	3.57	3.22	2.86	MPT 0.5/6-2.54	1725698
7	2.54	15.24	18.24	1.50	277-1278-ND	4.16	3.74	3.33	MPT 0.5/7-2.54	1725708
8	2.54	17.78	20.78	1.50	277-1279-ND	4.78	4.31	3.83	MPT 0.5/8-2.54	1725711
9	2.54	20.32	23.32	1.50	277-1280-ND	5.35	4.82	4.29	MPT 0.5/9-2.54	1725724
10	2.54	22.86	25.86	1.50	277-1281-ND	5.97	5.38	4.78	MPT 0.5/10-2.54	1725737
11	2.54	25.40	28.40	1.50	277-1282-ND	6.57	5.92	5.26	MPT 0.5/11-2.54	1725740
12	2.54	27.94	30.94	1.50	277-1283-ND	7.18	6.47	5.75	MPT 0.5/12-2.54	1725753
Fig. 2 — Modular 2.54mm PCB Spring Cage Fixed Terminal Block - Horizontal Wire Entry										
1	—	—	2.54	0.90	277-1310-ND	.80	.73	.65	FFKDS/H-2.54	1791826
Fig. 2 — End Terminal Block for FFKDS/H-2.54										
1	—	—	5.08	0.90	277-1311-ND	1.28	1.16	1.03	FFKDSA 1/H-5.08	1791868
Fig. 3 — Modular 2.54mm PCB Spring Cage Fixed Terminal Block - Vertical Wire Entry										
1	—	—	2.54	0.90	277-1312-ND	.80	.73	.65	FFKDS/V-2.54	1791813
Fig. 3 — End Terminal Block for FFKDS/V-2.54										
1	—	—	5.08	0.90	277-1313-ND	1.23	1.11	.99	FFKDSA 1/V-5.08	1791855
Fig. 4 — 3.81mm Double Level Terminal Blocks										
2	3.81	3.81	7.62	1.90	277-1356-ND	2.97	2.68	2.38	MKKDS 1/2-3.81	1708026
3	3.81	7.62	11.43	1.90	277-1357-ND	4.44	4.00	3.56	MKKDS 1/3-3.81	1708039
4	3.81	11.43	15.24	1.90	277-1358-ND	5.94	5.35	4.76	MKKDS 1/4-3.81	1708042
5	3.81	15.24	19.05	1.90	277-1359-ND	7.41	6.68	5.93	MKKDS 1/5-3.81	1708055
6	3.81	19.05	22.86	1.90	277-1360-ND	8.90	8.01	7.12	MKKDS 1/6-3.81	1708068
7	3.81	22.86	26.67	1.90	277-1361-ND	10.40	9.36	8.32	MKKDS 1/7-3.81	1708071
8	3.81	26.67	30.48	1.90	277-1362-ND	11.88	10.70	9.51	MKKDS 1/8-3.81	1708084
9	3.81	30.48	34.29	1.90	277-1363-ND	13.37	12.03	10.70	MKKDS 1/9-3.81	1708107
10	3.81	34.29	38.10	1.90	277-1364-ND	14.85	13.37	11.89	MKKDS 1/10-3.81	1708110
11	3.81	38.10	41.91	1.90	277-1365-ND	16.34	14.71	13.07	MKKDS 1/11-3.81	1708123
12	3.81	41.91	45.72	1.90	277-1366-ND	17.82	16.04	14.26	MKKDS 1/12-3.81	1708136
Fig. 5 — 3.81mm Insulation Displacement Terminal Blocks										
2	3.81	3.81	8.81	2.50	277-1417-ND	.93	.84	.75	IDC 0.3/2-3.81	1706170
3	3.81	7.62	12.62	2.50	277-1418-ND	1.34	1.21	1.07	IDC 0.3/3-3.81	1706183
4	3.81	11.43	16.43	2.50	277-1419-ND	1.70	1.54	1.37	IDC 0.3/4-3.81	1706196
5	3.81	15.24	20.24	2.50	277-1420-ND	2.11	1.91	1.69	IDC 0.3/5-3.81	1706206
6	3.81	19.06	24.05	2.50	277-1421-ND	2.47	2.22	1.98	IDC 0.3/6-3.81	1706219
7	3.81	22.86	27.86	2.50	277-1422-ND	2.89	2.60	2.32	IDC 0.3/7-3.81	1706222
8	3.81	26.67	31.67	2.50	277-1423-ND	3.26	2.94	2.61	IDC 0.3/8-3.81	1706235
9	3.81	30.48	35.48	2.50	277-1424-ND	3.65	3.29	2.93	IDC 0.3/9-3.81	1706248
10	3.81	34.29	39.29	2.50	277-1425-ND	4.05	3.65	3.24	IDC 0.3/10-3.81	1706251
11	3.81	38.10	43.10	2.50	277-1426-ND	4.43	3.99	3.55	IDC 0.3/11-3.81	1706264
12	3.81	41.91	46.91	2.50	277-1427-ND	4.81	4.33	3.85	IDC 0.3/12-3.81	1706277
Fig. 6 — 5mm PCB Connector Terminal Block										
2	5.0	5	10	2.5	277-1022-ND	1.51	1.37	1.21	MKDS 3/2	1711026
3	5.0	10	15	2.5	277-1023-ND	2.30	2.08	1.85	MKDS 3/3	1711039
4	5.0	15	20	2.5	277-1024-ND	3.04	2.74	2.44	MKDS 3/4	1711042
8	5.0	35	40	2.5	277-1025-ND	6.09	5.49	4.88	MKDS 3/8	1711084
12	5.0	55	60	2.5	277-1026-ND	9.09	8.18	7.28	MKDS 3/12	1711123

No. of Pos.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 7 —-5mm PCB Connector Terminal Block										
2	5.0	—	10	2.5	277-1236-ND	.80	.73	.65	MKDSN 1.5/2	1729018
3	5.0	—	15	2.5	277-1237-ND	1.23	1.11	.99	MKDSN 1.5/3	1729021
4	5.0	—	20	2.5	277-1238-ND	1.61	1.45	1.29	MKDSN 1.5/4	1729034
5	5.0	—	25	2.5	277-1239-ND	2.02	1.82	1.62	MKDSN 1.5/5	1729047
6	5.0	—	30	2.5	277-1240-ND	2.43	2.19	1.95	MKDSN 1.5/6	1729050
7	5.0	—	35	2.5	277-1241-ND	2.86	2.58	2.29	MKDSN 1.5/7	1729063
8	5.0	—	40	2.5	277-1242-ND	3.26	2.94	2.61	MKDSN 1.5/8	1729076
9	5.0	—	45	2.5	277-1243-ND	3.67	3.30	2.94	MKDSN 1.5/9	1729089
10	5.0	—	50	2.5	277-1244-ND	4.06	3.66	3.25	MKDSN 1.5/10	1729092
11	5.0	—	55	2.5	277-1245-ND	4.46	4.01	3.57	MKDSN 1.5/11	1729102
12	5.0	—	60	2.5	277-1246-ND	4.88	4.39	3.91	MKDSN 1.5/12	1729115
Fig. 8 — 5mm PCB Connector Terminal Block										
2	5.0	—	10	2.5	277-1258-ND	.95	.86	.77	MKDS 1.5/2	1715022
3	5.0	—	15	2.5	277-1259-ND	1.43	1.29	1.15	MKDS 1.5/3	1715035
4	5.0	—	20	2.5	277-1260-ND	1.93	1.75	1.55	MKDS 1.5/4	1715048
8	5.0	—	40	2.5	277-1261-ND	3.83	3.45	3.07	MKDS 1.5/8	1715080
12	5.0	—	60	2.5	277-1262-ND	5.79	5.22	4.64	MKDS 1.5/12	1715129
Fig. 9 — 5.0mm & 5.08mm Double Level Terminal Blocks										
2	5.00	—	10.00	2.50	277-1367-ND	2.30	2.08	1.85	MKKDS 1.5/2	1725012
3	5.00	—	15.00	2.50	277-1368-ND	3.43	3.09	2.75	MKKDS 1.5/3	1725025
2	5.08	—	10.16	2.54	277-1369-ND	2.30	2.08	1.85	MKKDS 1.5/2-5.08	1725038
3	5.08	—	15.24	2.54	277-1370-ND	3.41	3.07	2.73	MKKDS 1.5/3-5.08	1725041
Fig. 10 — 5.0mm & 5.08mm Double Level Terminal Blocks										
2	5.00	—	10.00	2.50	277-1371-ND	3.88	3.50	3.11	MKKDS 3/2	1721029
3	5.00	—	15.00	2.50	277-1372-ND	5.83	5.25	4.67	MKKDS 3/3	1721032
2	5.08	—	10.16	2.54	277-1373-ND	3.88	3.50	3.11	MKKDS 3/2-5.08	1721728
3	5.08	—	15.24	2.54	277-1374-ND	5.79	5.22	4.64	MKKDS 3/3-5.08	1721731
Fig. 11 — 5.08mm Press-Fit PCB Terminal Blocks										
2	5.08	5.08	11.34	3.13	277-1284-ND	1.76	1.59	1.41	EMKDS 2.5/2-5.08	1730612
3	5.08	10.16	16.42	3.13	277-1285-ND	2.60	2.35	2.09	EMKDS 2.5/3-5.08	1730625
4	5.08	15.24	21.50	3.13	277-1286-ND	3.50	3.16	2.81	EMKDS 2.5/4-5.08	1730638
5	5.08	20.32	26.58	3.13	277-1287-ND	4.37	3.94	3.50	EMKDS 2.5/5-5.08	1730641
6	5.08	25.40	31.66	3.13	277-1288-ND	5.26	4.74	4.21	EMKDS 2.5/6-5.08	1730654
7	5.08	30.48	36.74	3.13	277-1289-ND	6.12	5.51	4.90	EMKDS 2.5/7-5.08	1730667
8	5.08	35.56	41.82	3.13	277-1290-ND	6.95	6.26	5.56	EMKDS 2.5/8-5.08	1730670
9	5.08	40.64	46.90	3.13	277-1291-ND	7.88	7.09	6.31	EMKDS 2.5/9-5.08	1730683
10	5.08	45.72	51.98	3.13	277-1292-ND	8.72	7.85	6.98	EMKDS 2.5/10-5.08	1730696
11	5.08	50.80	57.06	3.13	277-1293-ND	9.63	8.67	7.71	EMKDS 2.5/11-5.08	1730706
12	5.08	55.88	62.14	3.13	277-1294-ND	10.51	9.46	8.41	EMKDS 2.5/12-5.08	1730719
Fig. 6 — 5.08mm PCB Connector Terminal Block										
2	5.08	5.08	10.16	2.54	277-1027-ND	1.50	1.35	1.20	MKDS 3/2-5.08	1711725
3	5.08	10.16	15.24	2.54	277-1028-ND	2.29	2.06	1.84	MKDS 3/3-5.08	1711738
Fig. 7 — 5.08mm PCB Connector Terminal Block										
2	5.08	—	10.16	2.54	277-1247-ND	.80	.73	.65	MKDSN 1.5/2-5.08	1729128
3	5.08	—	15.24	2.54	277-1248-ND	1.23	1.11	.99	MKDSN 1.5/3-5.08	1729131
4	5.08	—	20.32	2.54	277-1249-ND	1.61	1.45	1.29	MKDSN 1.5/4-5.08	1729144
5	5.08	—	25.40	2.54	277-1250-ND	2.00	1.81	1.61	MKDSN 1.5/5-5.08	1729157
6	5.08	—	30.48	2.54	277-1251-ND	2.43	2.19	1.95	MKDSN 1.5/6-5.08	1729160
7	5.08	—	35.56	2.54	277-1252-ND	2.86	2.58	2.29	MKDSN 1.5/7-5.08	1729173
8	5.08	—	40.64	2.54	277-1253-ND	3.26	2.94	2.61	MKDSN 1.5/8-5.08	1729186
9	5.08	—	45.72	2.54	277-1254-ND	3.67	3.30	2.94	MKDSN 1.5/9-5.08	1729199

(Continued)

PHOENIX CONTACT Terminal Blocks *(Cont.)*

Multi-Level Terminal Blocks: With their small pitch, the two and three level MKKDS and MK3DS are ideal solutions due to the increasing packing and connection density on printed circuit boards.

Insulation Displacement Terminal Blocks: The IDC printed circuit board terminal blocks mass terminate insulated conductors quickly without the need for tools.

Fig. 12

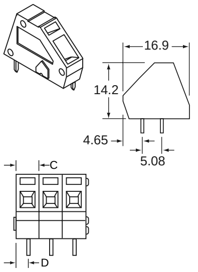

Specifications: **UL:** 300V @ 10A **IEC:** 25V @ 16A **Color:** Green

Fig. 13

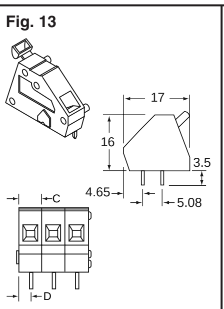

Specifications: **UL:** 300V @ 6A **IEC:** 250V @ 6A **Color:** Green

Fig. 14

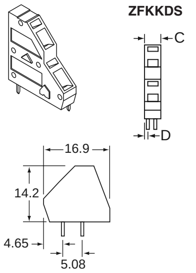

Specifications: **UL:** 300V @ 10A, 26-12 AWG **IEC:** 250V @ 12A, 24-14 AWG **Color:** Green

Fig. 15

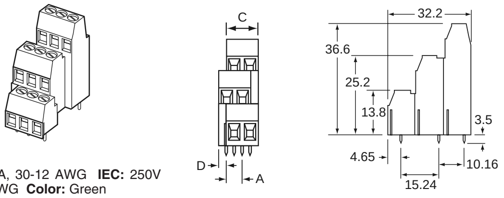

Specifications: **UL:** 300V @ 10A, 30-12 AWG **IEC:** 250V @ 22A, 26-14 AWG **Color:** Green

Fig. 16

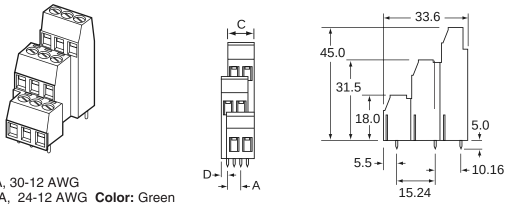

Specifications: **UL:** 300V @ 10A, 30-12 AWG **IEC:** 250V @ 32A, 24-12 AWG **Color:** Green

Fig. 17

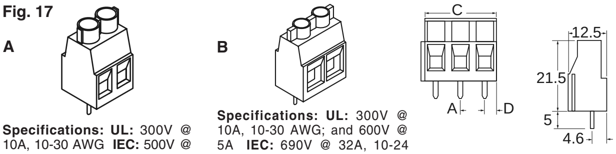

Specifications: **UL:** 300V @ 10A, 10-30 AWG **IEC:** 500V @ 32A, 10-24 AWG **Color:** Green

Specifications: **UL:** 300V @ 10A, 10-30 AWG; and 600V @ 5A **IEC:** 690V @ 32A, 10-24 AWG **Color:** Green

No. of Pos.	Dimensions (mm)				Digi-Key Part No.	Price Each			Phoenix Contact Type No.	Phoenix Contact Part No.
	A	B	C	D		1	10	100		
10	5.08	—	50.80	2.54	277-1255-ND	4.06	3.66	3.25	MKDSN 1.5/10-5.08	1729209
11	5.08	—	55.88	2.54	277-1256-ND	4.46	4.01	3.57	MKDSN 1.5/11-5.08	1729212
12	5.08	—	60.96	2.54	277-1257-ND	4.88	4.39	3.91	MKDSN 1.5/12-5.08	1729225
Fig. 8 — 5.08mm PCB Connector Terminal Block										
2	5.08	—	10.16	2.54	277-1263-ND	.95	.86	.77	MKDS 1.5/2-5.08	1715721
3	5.08	—	15.24	2.54	277-1264-ND	1.43	1.29	1.15	MKDS 1.5/3-5.08	1715734
4	5.08	—	20.32	2.54	277-1265-ND	1.92	1.73	1.54	MKDS 1.5/4-5.08	1715747
8	5.08	—	40.64	2.54	277-1266-ND	3.83	3.45	3.07	MKDS 1.5/8-5.08	1715789
10	5.08	—	50.80	2.54	277-1267-ND	4.84	4.36	3.87	MKDS 1.5/10-5.08	1715802
12	5.08	—	60.96	2.54	277-1268-ND	5.79	5.22	4.64	MKDS 1.5/12-5.08	1715828
Fig. 12 — Modular 5.08mm PCB Spring Cage Fixed Terminal Block - Single Level without Lever										
1	—	—	5.08	2.54	277-1314-ND	.35	.32	.29	ZFKDS 1.5-5.08	1706701
Fig. 12 — End Terminal Block for ZFKDS 1.5-5.08										
1	—	—	7.62	2.54	277-1315-ND	.49	.45	.40	ZFKDSA1.5-7.62	1706727
Fig. 13 — Modular 5.08mm PCB Spring Cage Fixed Terminal Block - Single Level with Lever										
1	—	—	5.08	2.54	277-1316-ND	.44	.40	.35	ZFKDS 1.5-W-5.08	1706714
Fig. 13 — End Terminal Block for ZFKDS 1.5-W-5.08										
1	—	—	7.62	2.54	277-1317-ND	.56	.51	.45	ZFKDSA 1.5-W-7.62	1706730
Fig. 14 — Modular 5.08mm PCB Spring Cage Fixed Terminal Block - Double Level without Lever										
1	—	—	5.08	1.27	277-1318-ND	.95	.86	.77	ZFKKDS 1.5-5.08	1704402
Fig. 15 — 5.08mm Triple Level Terminal Blocks										
2	5.08	—	10.16	2.54	277-1375-ND	6.08	5.47	4.87	MK3DS 1.5/2-5.08	1724013
3	5.08	—	15.24	2.54	277-1376-ND	9.12	8.21	7.30	MK3DS 1.5/3-5.08	1724026
Fig. 16 — 5.08mm Triple Level Terminal Blocks										
2	5.08	—	10.16	2.54	277-1377-ND	5.49	4.95	4.40	MK3DS 3/2-5.08	1723014
3	5.08	—	15.24	2.54	277-1378-ND	8.26	7.44	6.61	MK3DS 3/3-5.08	1723027
Fig. 17A — 6.35mm PCB Connector Terminal Block										
2	6.35	—	12.69	3.17	277-1269-ND	1.53	1.38	1.23	MKDS 5/2-6.35	1714955
3	6.35	—	19.04	3.17	277-1270-ND	2.13	1.92	1.71	MKDS 5/3-6.35	1714968
Fig. 17B — 9.52mm PCB Connector Terminal Block										
2	9.52	—	19.02	4.76	277-1271-ND	1.53	1.38	1.23	MKDS 5/2-9.5	1714971
3	9.52	—	28.52	4.76	277-1272-ND	2.25	2.03	1.80	MKDS 5/3-9.5	1714984

Industrial Connectors

Dim. in mm

Fig. 1

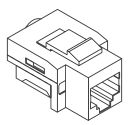

Fig. 2

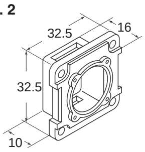

Fig. 3

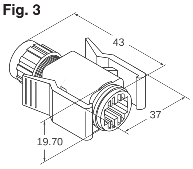

Fig. 4

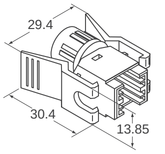

Fig. 5

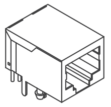

One-Way shown

Fig. 6

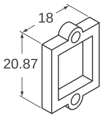

1 Position shown

Fig. 7

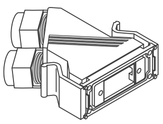

Fig. 8

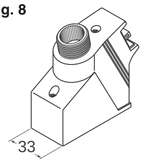

Fig. 9

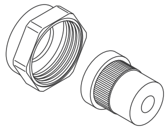

Fig. 10

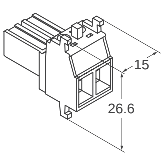

2 Position shown

Fig. 11

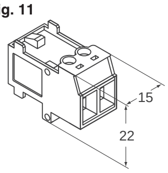

2 Position shown

Fig. 12

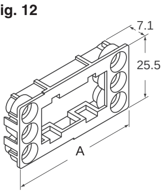

Fig.	Description	Digi-Key Part No.	Price Each			Phoenix Part No.
			1	10	100	
Ethernet & IP67 Ethernet						
1	RJ45 Female Insert, Female to Female, 8 Position	277-1670-ND	20.43	18.39	16.35	1689064
2	Mounting Frame w/o Fixing Screws for RJ45, IP67	277-1671-ND	7.66	6.89	6.13	1689080
3	Plastic Sleeve Housing w/Push-pull lock, IP67	277-1672-ND	13.05	11.75	10.44	1688696
4	Plastic Sleeve Housing w/Push-pull lock	277-1673-ND	8.37	7.53	6.70	1688638
—	Male Insert RJ45 w/IDC Connection, 8 Position	277-1674-ND	8.80	7.93	7.05	1688573
5	Female Insert RJ45, PCB, 1-Way, 8 Position	277-1675-ND	12.56	11.31	10.05	1688586
	Female Insert RJ45, PCB, 2-Way, 8 Position	277-1676-ND	33.52	30.18	26.82	1688599
	Female Insert RJ45, PCB, 4-Way, 8 Position	277-1677-ND	64.35	57.92	51.49	1688609
	Female Insert RJ45, PCB, 6-Way, 8 Position	277-1678-ND	97.60	87.84	78.08	1688612
	Female Insert RJ45, PCB, 8-Way, 8 Position	277-1679-ND	125.48	112.94	100.39	1688625
6	Panel Mounting Frame w/o Fixing Screws, 1 Position	277-1680-ND	8.47	7.63	6.78	1688641
	Panel Mounting Frame w/o Fixing Screws, 2 Position	277-1681-ND	10.12	9.11	8.10	1688654
	Panel Mounting Frame w/o Fixing Screws, 4 Position	277-1682-ND	13.08	11.78	10.47	1688667
	Panel Mounting Frame w/o Fixing Screws, 6 Position	277-1683-ND	16.11	14.50	12.89	1688670
	Panel Mounting Frame w/o Fixing Screws, 8 Position	277-1684-ND	19.13	17.22	15.31	1688683
—	Protective Cover for RJ45	277-1669-ND	8.80	7.93	7.05	1689200
Variocon, IP67 Plug Connector						
7	VARIOSUB D-SUB 9, for D-Sub 9 Contact Inserts w/Push-pull lock, IP67	277-1686-ND	43.98	39.59	35.19	1689158
	VARIOSUB D-SUB, EMC Version for D-Sub 15 Contact Inserts w/Push-pull lock, IP67	277-1685-ND	49.34	44.41	39.48	1689132
—	Protective cover for DB9	277-1687-ND	17.24	15.52	13.80	1887086
	Protective cover for DB15	277-1688-ND	18.89	17.01	15.12	1887099
8	Plastic Sleeve Housing, Locking Screws, PG16, 2 Pos.	277-1699-ND	9.09	8.19	7.28	1852930
	Plastic Sleeve Housing, Locking Screws, PG21, 3 Pos.	277-1700-ND	11.03	9.94	8.83	1852943
	Plastic Sleeve Housing, Locking Screws, PG21, 4 Pos.	277-1701-ND	12.51	11.27	10.02	1852956
	Plastic Sleeve Housing, Locking Screws, PG21, 5 Pos.	277-1702-ND	15.65	14.09	12.52	1852969
9	Single Screw Connection PG16, Plastic with Rubber Seal, Cable 6.5mm ~ 9.5mm	277-1703-ND	4.87	4.39	3.90	1853748
	Single Screw Connection PG21, Plastic with Rubber Seal, Cable 9mm ~ 13mm	277-1704-ND	8.03	7.23	6.43	1853900
	Single Screw Connection PG21, Plastic with Rubber Seal, Cable 11.5mm ~ 15.5mm	277-1705-ND	8.03	7.23	6.43	1853913
Modular Contact Insert						
10	Contact Insert for Sleeve Housing w/Screw Terminal Blocks, 2 Position	277-1689-ND	5.31	4.78	4.25	1852846
	Contact Insert for Sleeve Frame w/Screw Terminal Blocks, 6 Position	277-1690-ND	7.69	6.92	6.15	1853476
	Contact Insert for Sleeve Housing w/Screw Terminal Blocks, 8 Position	277-1691-ND	10.57	9.52	8.46	1852820
11	Contact Insert for Panel Mounting Frames, 2 Position	277-1692-ND	5.16	4.65	4.13	1853528
	Contact Insert for Panel Mounting Frames, 6 Position	277-1693-ND	6.93	6.24	5.55	1854019
	Contact Insert for Panel Mounting Frames, 8 Position	277-1694-ND	9.38	8.45	7.51	1854022
12	Panel Mounting Frame for Contact Insert Modules, 2 Position; A = 50.6mm	277-1695-ND	5.48	4.94	4.39	1852972
	Panel Mounting Frame for Contact Insert Modules, 3 Position; A = 65.6mm	277-1696-ND	5.58	5.03	4.47	1852985
	Panel Mounting Frame for Contact Insert Modules, 4 Position; A = 80.6mm	277-1697-ND	5.61	5.05	4.49	1852998
	Panel Mounting Frame for Contact Insert Modules, 5 Position; A = 95.6mm	277-1698-ND	7.06	6.36	5.65	1853007

Terminal Blocks

Fig. 1

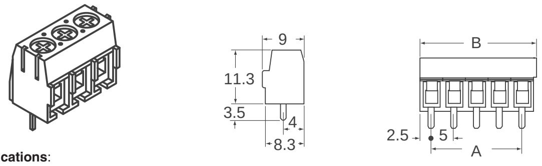

Specifications:
EN/VDE: 250V @ 16A, 24-14 AWG.
Color: Green

Fig. 2

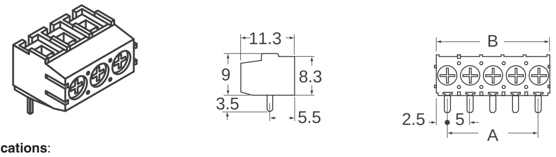

Specifications:
EN/VDE: 250V @ 16A, 24-14 AWG.
Color: Green

Fig. 3

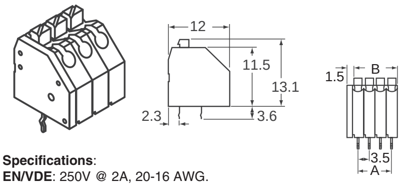

Specifications:
EN/VDE: 250V @ 2A, 20-16 AWG.
Color: Green

Fig. 4

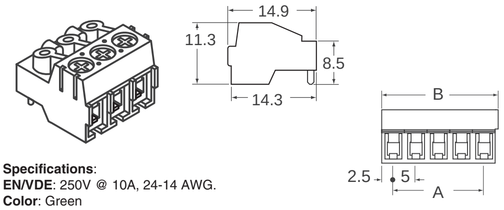

Specifications:
EN/VDE: 250V @ 10A, 24-14 AWG.
Color: Green

Fig. 5

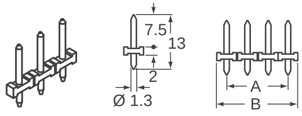

Specifications:
EN/VDE: 250V @ 10A
Color: Black
Note: Made of high temperature resistant material and is suitable for the reflow soldering process.

No. of Pos.	Dim. (mm) A	Dim. (mm) B	Digi-Key Part No.	Price Each 1	10	100	Phoenix Contact Type No.	Phoenix Contact Part No.
Fig. 1 — 5.0mm PCB Terminal Blocks								
2	5	10	277-1667-ND	.32	.30	.26	PT 1.5/2-5.0-H	1935161
3	10	15	277-1578-ND	.49	.45	.40	PT 1.5/3-5.0-H	1935174
4	15	20	277-1579-ND	.66	.60	.54	PT 1.5/4-5.0-H	1935187
5	20	25	277-1580-ND	.83	.75	.67	PT 1.5/5-5.0-H	1935190
6	25	30	277-1581-ND	.99	.89	.79	PT 1.5/6-5.0-H	1935200
7	30	35	277-1582-ND	1.16	1.04	.93	PT 1.5/7-5.0-H	1935213
8	35	40	277-1583-ND	1.33	1.20	1.07	PT 1.5/8-5.0-H	1935226
9	40	45	277-1584-ND	1.48	1.34	1.19	PT 1.5/9-5.0-H	1935239
10	45	50	277-1585-ND	1.65	1.49	1.32	PT 1.5/10-5.0-H	1935242
11	50	55	277-1586-ND	1.82	1.64	1.46	PT 1.5/11-5.0-H	1935255
12	55	60	277-1587-ND	1.97	1.78	1.58	PT 1.5/12-5.0-H	1935268
13	60	65	277-1588-ND	2.14	1.93	1.72	PT 1.5/13-5.0-H	1935271
14	65	70	277-1589-ND	2.31	2.09	1.85	PT 1.5/14-5.0-H	1935284
15	70	75	277-1590-ND	2.48	2.24	1.99	PT 1.5/15-5.0-H	1935297
16	75	80	277-1591-ND	2.64	2.38	2.11	PT 1.5/16-5.0-H	1935307
Fig. 2 — 5.0mm PCB Terminal Blocks								
2	5	10	277-1592-ND	.37	.34	.30	PT 1.5/2-5.0-V	1935310
3	10	15	277-1593-ND	.56	.51	.45	PT 1.5/3-5.0-V	1935323
4	15	20	277-1594-ND	.73	.66	.59	PT 1.5/4-5.0-V	1935336
5	20	25	277-1595-ND	.92	.83	.74	PT 1.5/5-5.0-V	1935349
6	25	30	277-1596-ND	1.11	1.00	.89	PT 1.5/6-5.0-V	1935352
7	30	35	277-1597-ND	1.29	1.17	1.04	PT 1.5/7-5.0-V	1935365
8	35	40	277-1598-ND	1.48	1.34	1.19	PT 1.5/8-5.0-V	1935378
9	40	45	277-1599-ND	1.67	1.50	1.34	PT 1.5/9-5.0-V	1935381
10	45	50	277-1600-ND	1.85	1.67	1.49	PT 1.5/10-5.0-V	1935394
11	50	55	277-1601-ND	2.04	1.84	1.64	PT 1.5/11-5.0-V	1935404
12	55	60	277-1602-ND	2.21	1.99	1.77	PT 1.5/12-5.0-V	1935417
13	60	65	277-1603-ND	2.40	2.16	1.92	PT 1.5/13-5.0-V	1935420
14	65	70	277-1604-ND	2.58	2.33	2.07	PT 1.5/14-5.0-V	1935433
15	70	75	277-1605-ND	2.77	2.50	2.22	PT 1.5/15-5.0-V	1935446
16	75	80	277-1606-ND	2.96	2.67	2.37	PT 1.5/16-5.0-V	1935459
Fig. 3 — 3.5mm PCB Terminal Blocks								
2	3.5	7	277-1622-ND	.24	.22	.20	PTSA 1.5/2-3.5-Z	1985195
3	7	10.5	277-1623-ND	.36	.33	.29	PTSA 1.5/3-3.5-Z	1985205
4	10.5	14	277-1624-ND	.48	.43	.39	PTSA 1.5/4-3.5-Z	1985218
5	14	17.5	277-1625-ND	.60	.54	.48	PTSA 1.5/5-3.5-Z	1985221
6	17.5	21	277-1626-ND	.71	.65	.58	PTSA 1.5/6-3.5-Z	1985234
7	21	24.5	277-1627-ND	.83	.75	.67	PTSA 1.5/7-3.5-Z	1985247
8	24.5	28	277-1628-ND	.94	.85	.75	PTSA 1.5/8-3.5-Z	1985250
9	28	31.5	277-1629-ND	1.05	.95	.85	PTSA 1.5/9-3.5-Z	1985263
10	31.5	35	277-1630-ND	1.17	1.06	.94	PTSA 1.5/10-3.5-Z	1985276
11	35	38.5	277-1631-ND	1.29	1.17	1.04	PTSA 1.5/11-3.5-Z	1985289
12	38.5	42	277-1632-ND	1.41	1.27	1.13	PTSA 1.5/12-3.5-Z	1985292
13	42	45.5	277-1633-ND	1.53	1.38	1.23	PTSA 1.5/13-3.5-Z	1985302
14	45.5	49	277-1634-ND	1.65	1.49	1.32	PTSA 1.5/14-3.5-Z	1985315
15	49	52.5	277-1635-ND	1.77	1.60	1.42	PTSA 1.5/15-3.5-Z	1985328
16	52.5	56	277-1636-ND	1.89	1.70	1.51	PTSA 1.5/16-3.5-Z	1985331
17	56	59.5	277-1637-ND	2.01	1.81	1.61	PTSA 1.5/17-3.5-Z	1985344
18	59.5	63	277-1638-ND	2.13	1.92	1.70	PTSA 1.5/18-3.5-Z	1985357
19	63	66.5	277-1639-ND	2.24	2.02	1.80	PTSA 1.5/19-3.5-Z	1985360
20	66.5	70	277-1640-ND	2.36	2.13	1.90	PTSA 1.5/20-3.5-Z	1985373
21	70	73.5	277-1641-ND	2.48	2.24	1.99	PTSA 1.5/21-3.5-Z	1985386
22	73.5	77	277-1642-ND	2.60	2.35	2.09	PTSA 1.5/22-3.5-Z	1985399
23	77	80.5	277-1643-ND	2.70	2.44	2.17	PTSA 1.5/23-3.5-Z	1985409
24	80.5	84	277-1644-ND	2.82	2.54	2.26	PTSA 1.5/24-3.5-Z	1985412
Fig. 4 — 5.0mm PCB Terminal Blocks (See Fig. 5 for Mounting Headers)								
2	5	10	277-1607-ND	.32	.30	.26	PT 1.5/2-PVH-5.0	1934861
3	10	15	277-1608-ND	.49	.45	.40	PT 1.5/3-PVH-5.0	1934874
4	15	20	277-1609-ND	.66	.60	.54	PT 1.5/4-PVH-5.0	1934887
5	20	25	277-1610-ND	.83	.75	.67	PT 1.5/5-PVH-5.0	1934890
6	25	30	277-1611-ND	.99	.89	.79	PT 1.5/6-PVH-5.0	1934900
7	30	35	277-1612-ND	1.16	1.04	.93	PT 1.5/7-PVH-5.0	1934913
8	35	40	277-1613-ND	1.33	1.20	1.07	PT 1.5/8-PVH-5.0	1934926
9	40	45	277-1614-ND	1.48	1.34	1.19	PT 1.5/9-PVH-5.0	1934939
10	45	50	277-1615-ND	1.65	1.49	1.32	PT 1.5/10-PVH-5.0	1934942
11	50	55	277-1616-ND	1.82	1.64	1.46	PT 1.5/11-PVH-5.0	1934955
12	55	60	277-1617-ND	1.97	1.78	1.58	PT 1.5/12-PVH-5.0	1934968
13	60	65	277-1618-ND	2.14	1.93	1.72	PT 1.5/13-PVH-5.0	1934971
14	65	70	277-1619-ND	2.31	2.09	1.85	PT 1.5/14-PVH-5.0	1934984
15	70	75	277-1620-ND	2.48	2.24	1.99	PT 1.5/15-PVH-5.0	1934997
16	75	80	277-1621-ND	2.64	2.38	2.11	PT 1.5/16-PVH-5.0	1935006
Fig. 5 — 5.0mm Headers (Mates with Fig. 4)								
2	5	10	277-1645-ND	.14	.13	.11	PST 1.3/2-5.0	1933189
3	10	15	277-1646-ND	.22	.20	.18	PST 1.3/3-5.0	1933192
4	15	20	277-1647-ND	.29	.26	.24	PST 1.3/4-5.0	1933202
5	20	25	277-1648-ND	.36	.33	.29	PST 1.3/5-5.0	1933215
6	25	30	277-1649-ND	.43	.39	.34	PST 1.3/6-5.0	1933228
7	30	35	277-1650-ND	.51	.46	.41	PST 1.3/7-5.0	1933231
8	35	40	277-1651-ND	.58	.52	.47	PST 1.3/8-5.0	1933244
9	40	45	277-1652-ND	.65	.59	.52	PST 1.3/9-5.0	1933257
10	45	50	277-1653-ND	.71	.65	.58	PST 1.3/10-5.0	1933260
11	50	55	277-1654-ND	.80	.72	.64	PST 1.3/11-5.0	1933273
12	55	60	277-1655-ND	.87	.78	.70	PST 1.3/12-5.0	1933286
13	60	65	277-1656-ND	.94	.85	.75	PST 1.3/13-5.0	1933299
14	65	70	277-1657-ND	1.00	.91	.81	PST 1.3/14-5.0	1933309
15	70	75	277-1658-ND	1.09	.98	.88	PST 1.3/15-5.0	1933312
16	75	80	277-1659-ND	1.16	1.04	.93	PST 1.3/16-5.0	1933325

CINCH Waldom ELECTRONICS

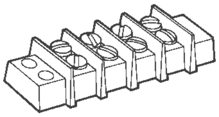

Barrier Blocks

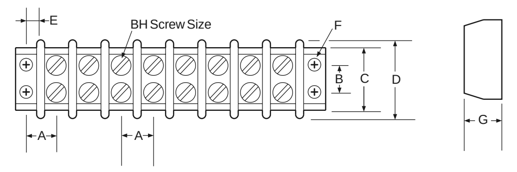

Terminal Spacing	Dimensions – Inch (mm)							BH Screw Size
	A	B	C	D	E	F	G	
.375 (9.52)	.375 (9.52)	.313 (7.95)	.688 (17.48)	.875 (22.23)	.141 (3.58)	.160 (4.06)	.406 (10.31)	5-40x3/16
.438 (11.13)	.438 (11.13)	.422 (10.72)	.875 (22.23)	1.125 (28.58)	.156 (3.96)	.175/.180 (4.44/4.57)	.500 (12.70)	6-32x1/4
.563 (14.30)	.563 (14.30)	.500 (12.70)	1.062 (26.97)	1.312 (33.32)	.203 (5.16)	.209 (5.31)	.625 (15.88)	8-32x5/16

Features:
- Interposing barriers between terminals
- Can be equipped with binder head screws only, or with binder head screws, 3/4W and Y solder terminals
- UL recognized

Performance Data:
Insulation Material: Molded monoblock, general purpose phenolic
Eyelet Material: Brass
Eyelet Plating: Nickel
Screw Material: Steel or brass
Screw Plating: Nickel over copper flash
Solder Terminal Material: Brass
Solder Terminal Plating: Tin
Operating Temperature: -55°F ~ 300°F (-48°C ~ 149°C)
Maximum Wire Size: .375" (9.53mm) - #16; .438" (11.13mm) - #15; .563" (14.30mm) - #10
Voltage Rating: .375" and .438" (9.53mm and 11.13mm) - 1100VAC rms maximum; .563" (14.30mm) - 1600VAC rms maximum
Current Rating: .375" (9.53mm) - 15A maximum; .438" (11.13mm) - 20A maximum; .563" (14.30mm) - 30A maximum
Max. Watts per Terminal: .375" (9.53mm) – 3750; .438" (11.13mm) – 5000; .563" (14.30mm) – 7500

Y Type

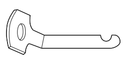

3/4W Type

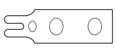

Terminal Spacing	No. of Contacts	Digi-Key Part No.	Pricing 1	25	50	100	250	500	Cinch Part No.
.375" (9.53 mm)	2	CBB102-ND	1.73	32.90	59.85	108.16	256.87	479.50	2-140
	3	CBB103-ND	2.10	39.88	72.54	131.10	311.36	581.21	3-140
	4	CBB104-ND	2.23	42.39	77.12	139.38	331.03	617.92	4-140
	5	CBB105-ND	2.53	48.01	87.34	157.84	374.86	699.75	5-140
	6	CBB106-ND	3.04	57.77	105.09	189.92	451.07	841.99	6-140
	7	CBB107-ND	3.21	61.07	111.10	200.79	476.88	890.17	7-140
	8	CBB108-ND	3.65	69.47	126.38	228.39	542.43	1012.53	8-140
	9	CBB109-ND	4.05	77.02	140.12	253.23	601.42	1122.65	9-140
	10	CBB110-ND	4.45	84.68	154.06	278.42	661.24	1234.31	10-140
	11	CBB111-ND	4.88	92.85	168.92	305.27	725.02	1353.36	11-140
	12	CBB112-ND	5.45	103.69	188.63	340.90	809.64	1511.33	12-140
.438" (11.13 mm)	2	CBB202-ND	1.66	31.53	57.37	103.67	246.22	459.61	2-141
	3	CBB203-ND	2.55	48.48	88.20	159.39	378.55	706.63	3-141
	4	CBB204-ND	2.55	48.53	88.29	159.56	378.96	707.39	4-141
	5	CBB205-ND	2.84	54.04	98.31	177.68	421.98	787.69	5-141
	6	CBB206-ND	3.19	60.55	110.15	199.07	472.78	882.52	6-141
	7	CBB207-ND	3.81	72.46	131.82	238.22	565.78	1056.12	7-141
	8	CBB208-ND	3.98	75.66	137.64	248.75	590.77	1102.77	8-141
	9	CBB209-ND	4.45	84.68	154.06	278.42	661.24	1234.31	9-141
	10	CBB210-ND	4.53	86.10	156.63	283.07	672.30	1254.95	10-141
	11	CBB211-ND	5.18	98.43	179.06	323.61	768.57	1434.67	11-141
	12	CBB212-ND	5.40	102.58	186.60	337.24	800.94	1495.09	12-141
.563" (14.30 mm)	2	CBB302-ND	2.40	45.54	82.85	149.73	355.61	663.80	2-142
	3	CBB303-ND	2.79	53.05	96.50	174.40	414.19	773.16	3-142
	4	CBB304-ND	3.15	59.81	108.81	196.65	467.04	871.82	4-142
	5	CBB305-ND	4.34	82.59	150.24	271.52	644.85	1203.72	5-142
	6	CBB306-ND	5.92	112.61	204.85	370.22	879.26	1641.29	6-142
	7	CBB307-ND	6.45	122.59	223.02	403.05	957.24	1786.84	7-142
	8	CBB308-ND	7.21	137.12	249.45	450.82	1070.70	1998.63	8-142
	9	CBB309-ND	10.79	205.17	373.25	674.55	1602.05	2990.49	9-142
	10	CBB310-ND	11.42	217.18	395.08	714.00	1695.75	3165.40	10-142
	11	CBB311-ND	12.34	234.63	426.83	771.38	1832.02	3419.76	11-142
	12	CBB312-ND	11.03	209.77	381.60	689.64	1637.90	3057.42	12-142

A

3/4W and Y Solder Terminals

Series	Type	Digi-Key Part No.	Pricing 1	25	50	100	250	500	Cinch Part No.
.375" (9.53mm)	Y	CBB001-ND	.54	10.34	18.80	33.98	80.71	150.66	Y-140
.438" (11.13mm)	Y	CBB004-ND	.85	16.11	29.30	52.96	125.77	234.78	Y-141
.563" (14.30mm)	Y	CBB007-ND	.98	18.63	33.89	61.25	145.46	271.53	Y-142

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tyco Electronics AMP

FLEXI-BLOCK®
Terminal Block System

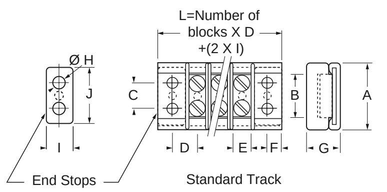

Accessories

Jumper Tab

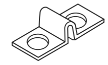

90° Tab

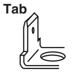

45° Tab

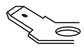

Flat Tab

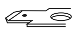

Snip It!

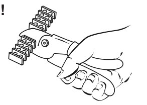

Slide It!

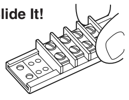

Snap It!

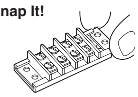

Product Specifications: • Blocks and End Stops: Nylon • Track: NORYL EN 265 • FASTON Tab and Jumper Tab: Tin plated brass • Screws: Nickel plated brass Ratings: • 6000 Breakdown voltage, rms line-to-line • 6000 Breakdown voltage, rms line-to-ground • Operating Temperature: 105°C Maximum

Max. Size	Max. Amps	Volts	Wire Range	Dimensions (Inch) A	B	C	D	E	F	G	H	I	J
6	15	300	22-14	1.125	.750	.422	.438	.343	.219	.563	.171	.437	.96
8	30	600	22-10	1.312	.875	.500	.563	.437	.281	.656	.203	.557	1.15

Size	Description	Digi-Key Part No.	Pricing 1	10	AMP Part No.
6	#6 Block Assembly, 100pcs/pkg	A0130-ND	45.94/pkg	—	1-604102-1
8	#8 Block Assembly, 100pcs/pkg	A0131-ND	52.08/pkg	—	1-604152-1
6	Track 36" long, 80 positions	A0132-ND	6.33	56.93	1-601805-1
8	Track 36" long, 60 positions	A0133-ND	7.18	61.71	1-601806-1
6	End Stop, 2 required per assembly	A0134-ND	—	1.28	604111-1
8	End Stop, 2 required per assembly	A0135-ND	—	1.50	604161-1
6, 8	Flat Tab	A0136-ND	—	12.00	601989-1
6, 8	45° Tab	A0137-ND	—	10.46	601989-2
6, 8	90° Tab	A0138-ND	—	7.13	601989-3
6	Jumper Tab	A0139-ND	—	2.20	601985-2
8	Jumper Tab	A0140-ND	—	3.10	604591-1
6	#6 Terminal Block Kit	A0150-ND*	88.58	797.18	601804-8
8	#8 Terminal Block Kit	A0151-ND†	117.78	1059.98	604336-1

* Kit consists of 1 each 100-block assembly, 25 end stops, 2 tracks
† Kit consists of 1 each 100-block assembly, 50 end stops, 8 tracks

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HRS HIROSE ELECTRIC CO.,LTD.

HR31 Series Connectors

Fig. 1

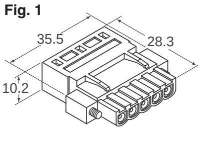

Fig. 2

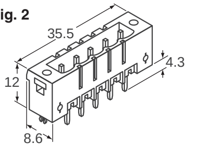

Fig. 3

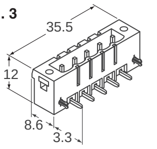

Features: • Crimped and connected to terminal then fastened simply by inserting into housing • High density mounting • Prevention of connection errors • No need for screws, built-in locking pin secures connector to the board

Applications: Power units and communications units for factory automation related devices

Product Specifications: • Current Rating: 12A (2.5mm^2 wire); 10A (1.5mm^2 wire) • Voltage Rating: 250 V AC, 350 V DC • Operating Temperature Range: -40°C ~ 100°C • Storage Temperature Range: -40°C ~ 85°C (for a multi-strand conductor)

Materials: • **Plug:** Insulator: PBT, Black finish, UL94V-0; Screw: Steel, Zinc plating • **Header:** Insulator: PBT, Black finish, UL94V-0; Nut: Steel, Zinc plating; Board Retention Pin: Phosphor bronze, Tin plating

Fig	Wire Size (Awg)	Contact Plating	Contact Size (mm^2)	Digi-Key Part No.	Pricing 1	25	100	Hirose Part No.
1	—	—	—	H4110-ND	3.22	61.88	198.00	HR31-5.08P-5SC
2	—	Tin	—	H4111-ND	4.41	85.50	273.60	HR31-5.08R-5PD
		Gold		H4112-ND	5.28	102.38	327.60	HR31-5.08R-5PD(01)
3	—	Tin	—	H4113-ND	4.41	85.50	273.60	HR31-5.08R-5PDL
		Gold		H4114-ND	5.28	102.38	327.60	HR31-5.08R-5PDL(01)
Crimp Contacts								
—	14-16	Tin	1.04-2.63	H4116-ND	1.04	18.77	61.43	HR31-SC-113
—	14-16	Gold	1.04-2.63	H4115-ND	1.40	25.30	82.80	HR31-SC-111
—	18-24	Tin	0.2-1.65	H4118-ND	1.41	25.58	83.70	HR31-SC-123
—	18-24	Gold	0.2-1.65	H4117-ND	1.40	25.30	82.80	HR31-SC-121
Contact Extraction Tool................				H9916-ND	6.09	—	—	HR31-SC-TP
Crimp Tool............................				H9917-ND	106.40	—	—	HR31-TC-01

GC™ ELECTRONICS

Spring Push Terminals

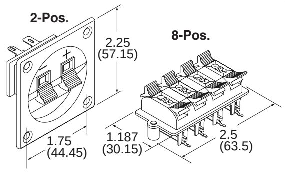

These terminals have spring loaded posts for easy connection with Red and Black color codes. Designed for various audio applications such as surround sound and speaker connections, amplifiers and more. Maximum allowed wire size 14 AWG.

GC399-ND	2 Pos. for panel mounting to speakers, mounts in 2" (50.80mm) hole.....................	**$1.60**
GC400-ND	4 Pos. for mounting directly to chassis or panels ...	**$1.84**
GC401-ND	8 Pos. with right angle PCB terminals, with Mounting Ears	**$2.79**

Barrier Terminal Blocks

Fig. 1

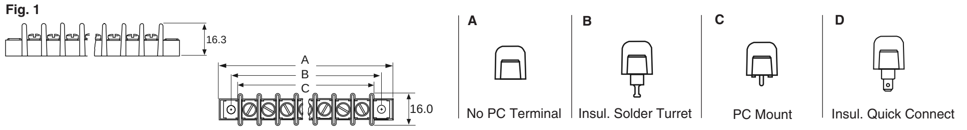

A No PC Terminal

B Insul. Solder Turret

C PC Mount

D Insul. Quick Connect

Fig. 2

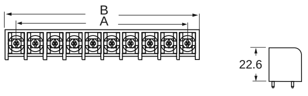

Fig. 3

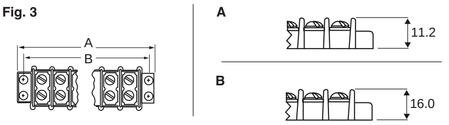

Fig. 4

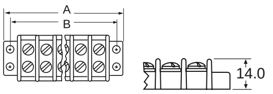

Fig. 5

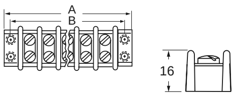

Fig. 6

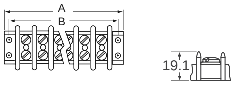

.375" PCB Single Barrier Terminal Strip
Ratings: #6-32 Binding Head Screw: UL: Class B - 15Amps @ 300V 14AWG. Class C - 15Amps @ 150V 14AWG. CSA: Class B & C - 20Amps @ 300V 14AWG, Mechanical: Torque - 12 in-lbs. Strip length - 5/16". Wire range - 12 ~ 24AWG, Materials: Insulator: Thermoplastic, UL94V-0, black. Terminal: Brass, tin-lead plate. Screws: #6-32, phillips/slotted, steel, zinc chromate plate

Tri-Barrier and Double Row Barrier Terminal Strips
PCB Tri-Barrier Terminal Strip, 600V
Ratings: M4 Wire Clamp Screw: UL & CSA: Class B & C: 45Amps @ 600V 8 AWG Mechanical: Torque - 16 in-lbs. Wire Range: 8 ~ 18 AWG Strip length - 5/16" Insulator: Thermoplastic, UL94V-0, black. Terminal: High copper brass, tin-lead plate. Screws: M4, steel, zinc chromate plate with clamp washer. UL File No. E48521, CSA File No. 025562 for all the Tri-Barrier, Double Row and Single Row

.375" Double Row Low Profile Barrier Terminal Strip
Ratings: #6-32 Binding Head Screw: UL: Class B - 15Amps @ 300V 14 AWG, Class C - 15Amps @ 150V 14 AWG. CSA: Class B & C - 20Amps @ 150V 14AWG Mechanical: Torque - 8in-lbs. Strip length - 5/16" Wire range - 12 ~ 24 AWG Insulator: Thermoplastic, UL94V0, black. Terminal: Brass, nickel plate. Screws: #6-32, phillips/slotted, steel, zinc chromate plate

.375" Double Row Barrier Terminal Strip
Same as the Low Profile except the CSA ratings Class B & C: 20Amps @ 300V 14AWG

.438" Double Row Barrier Terminal Strip
Ratings: #6-32 Binding Head Screw. UL: Class B & C 15Amps @ 300V 14AWG CSA: Class B & C 20Amps @ 300V 14AWG Mechanical: Torque - 8in-lbs. Strip length - 5/16: Wire range - 12 to 24AWG Material: Same as the .375" Terminal Strips

.563" Double Row Phenolic Barrier Terminal Strip
Ratings: #8-32 Binding Head Screw: UL & CSA: Class B & C: 30Amps @ 300V 10AWG Mechanical: Torque - 16in-lbs. Strip length - 5/16" Wire range - 10 ~ 18AWG Materials: Insulator: General purpose phenolic, UL94V-0, black. Terminal: Brass, nickel plate. Screws: #8-32, phillips/slotted, steel, zinc chromate plate

.688" Double Row Phenolic Barrier Terminal Strip
Ratings: #10-32 Screw UL: Class B - 50Amps @ 300V 6AWG (lugged). Class C - 50Amps @ 150V, 6AWG (lugged). CSA: Class B - 50Amps @ 300V 6AWG (lugged). Mechanical: Torque - 20 in-lbs. Torque - 22 in-lbs. Strip length - 5/16" Wire range - 6AWG lugged. maximum Materials: Same as the .562" except the screw size which is #10-32

Fig.	No. of Contacts	Dim.– Inch (mm)			Digi-Key Part No.	Price Each			Molex Part No.
		A	B	C		1	10	100	
.375" Single Row, PCB Barrier Terminal Strip									
1A	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5720-ND	1.75	1.55	1.03	38720-0202
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5721-ND	2.27	2.01	1.34	38720-0203
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5722-ND	2.59	2.29	1.53	38720-0204
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5723-ND	3.18	2.81	1.87	38720-0205
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5724-ND	3.57	3.15	2.10	38720-0206
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5725-ND	4.54	4.01	2.67	38720-0208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5726-ND	5.51	4.87	3.25	38720-0210
	12	5.33 (135)	4.88 (124)	4.58 (116)	WM5727-ND	6.35	5.61	3.74	38720-0212
1B	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5728-ND	2.07	1.83	1.23	38720-3202
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5729-ND	2.72	2.41	1.61	38720-3203
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5730-ND	3.37	2.98	1.99	38720-3204
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5731-ND	3.95	3.49	2.33	38720-3205
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5732-ND	4.54	4.01	2.67	38720-3206
	7	3.46 (87.8)	3.00 (76.2)	2.71 (68.8)	WM5733-ND	5.12	4.52	3.02	38720-3207
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5734-ND	5.77	5.09	3.40	38720-3208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5735-ND	7.07	6.24	4.16	38720-3210
	11	4.96 (126)	4.50 (114)	4.21 (107)	WM5736-ND	7.65	6.75	4.50	38720-3211
	12	5.33 (135)	4.88 (124)	4.58 (116)	WM5737-ND	8.23	7.27	4.85	38720-3212
1C	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5738-ND	1.82	1.61	1.07	38720-6202
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5739-ND	2.40	2.12	1.42	38720-6203
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5740-ND*	1.88	1.66	1.11	38720-6303
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5741-ND	2.85	2.52	1.68	38720-6204
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5742-ND*	2.27	2.01	1.34	38720-6304
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5743-ND	3.50	3.09	2.06	38720-6205
	5	2.71 (68.8)	2.25 (57.2)	1.96 (49.7)	WM5744-ND*	2.85	2.52	1.68	38720-6305
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5745-ND	3.95	3.49	2.33	38720-6206
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5746-ND*	3.37	2.98	1.99	38720-6306
	8	3.83 (97.3)	3.38 (85.7)	3.08 (78.3)	WM5747-ND	5.06	4.47	2.98	38720-6208
	10	4.58 (116)	4.13 (105)	3.83 (97.3)	WM5748-ND	6.16	5.44	3.63	38720-6210
1D	2	1.58 (78.3)	1.13 (28.6)	.83 (21.1)	WM5749-ND	1.88	1.66	1.11	38721-6702
	3	1.96 (49.7)	1.50 (38.1)	1.21 (30.7)	WM5750-ND	2.46	2.18	1.45	38721-6703
	4	2.33 (59.2)	1.88 (47.6)	1.58 (40.2)	WM5751-ND	2.98	2.64	1.76	38721-6704
	6	3.08 (78.3)	2.63 (66.7)	2.33 (59.2)	WM5752-ND	4.08	3.61	2.41	38721-6706

* No mounting ends

Fig.	No. of Contacts	Dim.– Inch (mm)		Digi-Key Part No.	Price Each			Molex Part No.
		A	B		1	10	100	
.500" Single Row, PCB Tri-Barrier Terminal Strip, 600V								
2	3	1.00 (25.4)	1.61 (40.9)	WM5754-ND	8.30	7.33	4.89	38660-7803
	4	1.50 (38.1)	2.11 (53.6)	WM5755-ND	10.49	9.26	6.18	38660-7804
	5	2.00 (50.8)	2.61 (66.3)	WM5756-ND	12.74	11.25	7.50	38660-7805
	6	2.50 (63.5)	3.11 (79.0)	WM5757-ND	14.98	13.22	8.82	38660-7806
	7	3.00 (76.2)	3.61 (91.7)	WM5758-ND	17.25	15.22	10.15	38660-7807
.375" Double Row Low Profile Barrier Terminal Strip								
3A	2	1.41 (35.8)	1.13 (28.7)	WM5759-ND	1.56	1.38	.92	38770-0102
	3	1.78 (45.2)	1.50 (38.1)	WM5760-ND	1.75	1.55	1.03	38770-0103
	4	2.16 (54.9)	1.88 (47.8)	WM5761-ND	2.14	1.89	1.26	38770-0104
	5	2.53 (64.3)	2.25 (57.2)	WM5762-ND	2.79	2.46	1.64	38770-0105
	6	2.91 (73.9)	2.63 (66.8)	WM5763-ND	3.31	2.92	1.95	38770-0106
	7	3.28 (83.3)	3.00 (76.3)	WM5764-ND	3.44	3.04	2.03	38770-0107
	8	3.66 (93.1)	3.38 (85.9)	WM5765-ND	4.08	3.61	2.41	38770-0108
	10	4.41 (112)	4.13 (105)	WM5766-ND	4.93	4.35	2.90	38770-0110
	12	5.16 (131)	4.88 (124)	WM5767-ND	5.57	4.92	3.28	38770-0112
	13	5.53 (140)	5.25 (133)	WM5768-ND	6.16	5.44	3.63	38770-0113
	14	5.91 (150)	5.63 (143)	WM5769-ND	6.61	5.84	3.89	38770-0114
	16	6.66 (169)	6.38 (162)	WM5770-ND	7.45	6.58	4.39	38770-0116
	18	7.41 (188)	7.13 (181)	WM5771-ND	8.23	7.27	4.85	38770-0118
	20	8.16 (207)	7.88 (200)	WM5772-ND	9.27	8.18	5.46	38770-0120
	30	11.91 (303)	11.63 (295)	WM5773-ND	13.48	11.90	7.94	38770-0130
.375" Double Row Barrier Terminal Strip								
3B	2	1.41 (35.8)	1.13 (28.7)	WM5774-ND	1.56	1.38	.92	38760-0102
	3	1.78 (45.2)	1.50 (38.1)	WM5775-ND	1.75	1.55	1.03	38760-0103
3B	4	2.16 (54.9)	1.88 (47.8)	WM5776-ND	2.14	1.89	1.26	38760-0104
	5	2.53 (64.3)	2.25 (57.2)	WM5777-ND	2.79	2.46	1.64	38760-0105
	6	2.91 (73.9)	2.63 (66.8)	WM5778-ND	3.31	2.92	1.95	38760-0106
	7	3.28 (83.3)	3.00 (76.3)	WM5779-ND	3.44	3.04	2.03	38760-0107
	8	3.66 (93.1)	3.38 (85.9)	WM5780-ND	4.08	3.61	2.41	38760-0108
	10	4.41 (112)	4.13 (105)	WM5781-ND	4.93	4.35	2.90	38760-0110
	12	5.16 (131)	4.88 (124)	WM5782-ND	5.57	4.92	3.28	38760-0112
	14	5.91 (150)	5.63 (143)	WM5783-ND	6.61	5.84	3.89	38760-0114
	16	6.66 (169)	6.38 (162)	WM5784-ND	7.45	6.58	4.39	38760-0116
	18	7.41 (188)	7.13 (181)	WM5785-ND	8.23	7.27	4.85	38760-0118
	20	8.16 (207)	7.88 (200)	WM5786-ND	9.20	8.13	5.42	38760-0120
	22	8.91 (226)	8.63 (219)	WM5787-ND	9.79	8.64	5.76	38760-0122
	24	9.66 (245)	9.38 (238)	WM5788-ND	10.89	9.61	6.41	38760-0124
	30	11.91 (303)	11.63 (295)	WM5789-ND	13.48	11.90	7.94	38760-0130
.438" Double Row Barrier Terminal Strip								
4	2	1.63 (41.4)	1.31 (33.3)	WM5790-ND	1.62	1.43	.96	38780-0102
	3	2.06 (52.3)	1.75 (44.5)	WM5791-ND	2.07	1.83	1.23	38780-0103
	4	2.50 (63.5)	2.19 (55.6)	WM5792-ND	2.92	2.58	1.72	38780-0104
	5	2.94 (74.7)	2.63 (66.8)	WM5793-ND	3.24	2.86	1.91	38780-0105
	6	3.38 (85.9)	3.06 (77.7)	WM5794-ND	3.82	3.38	2.25	38780-0106
	7	3.81 (96.8)	3.50 (88.9)	WM5795-ND	4.60	4.07	2.71	38780-0107
	8	4.25 (108)	3.94 (100)	WM5796-ND	4.86	4.29	2.86	38780-0108
	10	5.13 (130)	4.81 (122)	WM5797-ND	5.90	5.21	3.47	38780-0110
	12	6.00 (152)	5.69 (145)	WM5798-ND	7.07	6.24	4.16	38780-0112
	14	6.88 (175)	6.56 (167)	WM5799-ND	8.23	7.27	4.85	38780-0114
	16	7.75 (197)	7.44 (189)	WM5800-ND	9.14	8.07	5.38	38780-0116
	18	8.63 (219)	8.31 (211)	WM5801-ND	10.05	8.87	5.91	38780-0118
	20	9.50 (241)	9.19 (233)	WM5802-ND	10.95	9.67	6.45	38780-0120
.563" Double Row Phenolic Barrier Terminal Strip with Closed Bottom								
5	2	2.09 (53.9)	1.69 (42.9)	WM5803-ND	2.70	2.39	1.59	38211-0102
	3	2.66 (67.6)	2.25 (57.2)	WM5804-ND	5.00	4.42	2.95	38211-0103
	4	3.22 (81.8)	2.81 (71.4)	WM5805-ND	4.83	4.26	2.84	38211-0104
	5	3.78 (96.0)	3.38 (85.9)	WM5806-ND	6.32	5.58	3.72	38211-0105
	6	4.34 (110)	3.94 (100)	WM5807-ND	7.31	6.46	4.31	38211-0106
	7	4.91 (125)	4.50 (114)	WM5808-ND	7.59	6.71	4.47	38211-0107
	8	5.47 (139)	5.06 (129)	WM5809-ND	8.66	7.65	5.10	38211-0108
	10	6.59 (167)	6.19 (157)	WM5810-ND	10.68	9.43	6.29	38211-0110
	12	7.72 (196)	7.31 (186)	WM5811-ND	12.94	11.42	7.61	38211-0112
	16	9.97 (253)	9.56 (243)	WM5812-ND	17.61	15.54	10.36	38211-0116
	20	12.22 (310)	11.81 (300)	WM5813-ND	21.24	18.74	12.50	38211-0120
	24	14.47 (368)	14.06 (357)	WM5814-ND	25.23	22.26	14.84	38211-0124
.688" Double Row Phenolic Barrier Terminal Strip								
6	2	2.50 (63.5)	2.06 (52.4)	WM5815-ND	7.48	6.60	4.40	38280-0102
	3	3.19 (81)	2.75 (69.9)	WM5816-ND	8.47	7.47	4.98	38280-0103
	4	3.88 (98.4)	3.44 (87.3)	WM5817-ND	11.03	9.73	6.49	38280-0104
	5	4.56 (116)	4.13 (105)	WM5818-ND	12.94	11.42	7.61	38280-0105
	6	5.25 (133)	4.81 (122)	WM5819-ND	21.17	18.69	12.46	38280-0106
	8	6.63 (168)	6.19 (157)	WM5820-ND	21.20	18.71	12.48	38280-0108
	10	8.00 (203)	7.56 (192)	WM5821-ND	26.11	23.04	15.36	38280-0110
	12	9.38 (238)	8.94 (227)	WM5822-ND	31.52	27.81	18.54	38280-0112

Style 1, 2, and 3 Solder Terminals

Series	Style	Digi-Key Part No.	Price Each			Molex Part No.
			1	10	100	
.375	1	WM5918-ND	.22	.20	.14	38002-0204
	2	WM5919-ND	.30	.27	.18	38002-0157
	3	WM5920-ND	.13	.12	.08	38002-0159
.438	1	WM5921-ND	.29	.26	.18	38002-0304
	2	WM5922-ND	.37	.33	.22	38002-0255
	3	WM5923-ND	.24	.21	.14	38002-0257
.563	1	WM5924-ND	.44	.39	.26	38002-0321
	2	WM5925-ND	.52	.46	.31	38002-0323
	3	WM5926-ND	.54	.48	.32	38002-0325

Style 1

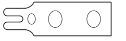

Style 2

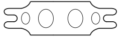

Style 3

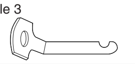

Barrier and Eurostyle® Terminal Blocks

Fig. 1

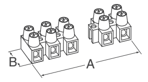

Fig. 2

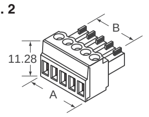

Fig. 3

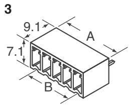

Fig. 4

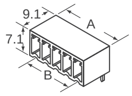

Fig. 5

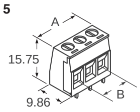

Fig. 6

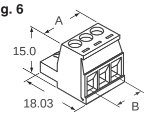

Fig. 7

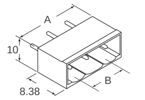

Fig. 8

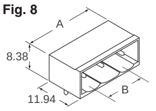

Fig. 9

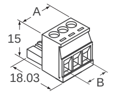

Fig. 10

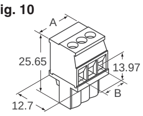

Fig. 11

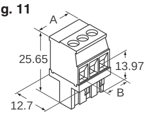

Fig. 12

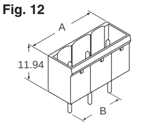

Fig. 13 ***NEW!***

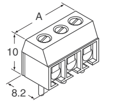

Fig. 14

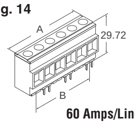

60 Amps/Line

Fig. 15

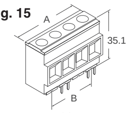

90 Amps/Line

8.00mm Two-Screw Terminal Strip: **Ratings:** UL: Class C: 20Amps @ 600 V 12AWG; CSA: 15Amps @ 300V 16AWG; Safety Agencies: UL File No. E48521, CSA: File No. 25562 **Mechanical:** Torque: 4.4 inches/pound; Wire Range: 12 ~ 22AWG **Materials:** Insulator: Nylon 6.6, UL94V-2, white; Inserts: Brass; Wire protector: stainless steel; Screws: Zinc-plated steel; Terminals: Nickel-plated brass

10.00mm Two-Screw Terminal Strip: **Ratings:** UL: Class C: 30Amps @ 600V 10AWG; CSA: 30Amps @ 300V 12AWG; Safety Agencies: UL: File No. E48521, CSA: File No. 25562 **Mechanical:** Torque: 7 inches/pound; Wire Range: 10 ~ 18AWG **Materials:** Same as 8.00mm

12.00mm Two-Screw Terminal Strip: **Ratings:** UL: 40A Max, 600V 10AWG CSA: 40A Max, 600V 8AWG **Mechanical:** Torque: 7 inches/pound; Wire Range 8 ~ 20AWG **Materials:** Same as 8.00mm & 10.00mm

3.50mm Pitch Beau Eurostyle Pluggable PCB Terminal Block: **Ratings:** UL: File No. E48521, Guide No. XCFR2 **Electrical:** Voltage: 300V; Maximum Current: 10Amp; Insulation Resistance: >5,000MΩ **Mechanical:** Torque: 2.5 inches/pound, .31Nm. Operating Temperature: 140°C **Physical:** Housing: Polyamide 4/6, black; Screws: M2 Cheesehead, Silicon Bronze; Screw Plating: Nickel; Contacts: Beryllium Copper; Contact Plating: Hot Tin Dip; Pressure Clamp: Yellow Brass; Pressure Clamp Plating: Nickel; Wire Range: 16 to 24 AWG, 1.0 to 0.2mm^2

3.50mm Pitch Beau Eurostyle High Temperature PCB Header: **Physical:** Header Pins: Brass, 3/4 Hard; Header Pin Plating: Tin

5.00mm Eurostyle Economy Screw Terminal Block: **Ratings:** UL and CSA: 13.5A @ 300V 15AWG; **Mechanical:** Torque: 5.3 inches/pound; Wire Range: 15 ~ 30 AWG **Materials:** Insulator: Polyamide 6.6 UL94V-0 ; Terminal: Tin Plated Copper; Screw: Nickel plated copper; Cage Clamp: Nickel Plated Copper

5.00mm and 5.08mm Eurostyle Pluggable PCB Terminal Block: **Ratings:** UL: Class B: 15Amps @ 300V 12AWG; Class C: 10Amps @ 300V 12AWG CSA: Class B: 15Amps @ 300V 12AWG; Safety Agencies: UL: File No. E48521; CSA: File No. 25562 **Mechanical:** Torque: 5 inches/pound; Strip length: .250" (6mm); Wire Range: 12 ~ 26AWG **Materials:** Insulator: Polyamide, UL94V-0, black; Pressure Clamp: Brass, nickel plate; Contacts: Phosphor bronze, tin plate; Header pins: Brass, tin plate; Screws: 2.5mm, steel, zinc chromate plates

5.00mm and 5.08mm Eurostyle Pluggable PCB Header, Closed Ends: **Ratings:** UL and CSA - Class B: 15Amps @ 300V, UL: Class C: 10Amps @ 300V File No. E150931 **Materials:** Nylon 6.6, UL94V-0, black; Header pins: Brass, tin plate

3.50mm Eurostyle Fixed PCB Terminal Block: **Ratings:** UL and CSA: Class B: 8 Amps @ 150V 16AWG; Safety Agencies: UL & CSA are pending **Mechanical:** Torque: 2 inches/pound, Strip length: .250" (6mm), Wire Range: 16 ~ 26AWG **Materials:** Insulator: Polyamide, UL94V-0, green; Terminal: Brass, tin plate; Clamp: Brass, nickel plate; Screws: Steel, zinc chromate plate

10.16mm Eurostyle High Power Fixed Blocks: **Ratings:** UL and CSA Agencies: UL: File No. E48521, Guide No. XCFR2; CSA: File No. 025562 **Electrical:** Voltage: 600V; Maximum Current: 60Amp; Insulation Resistance: > 50,000GΩ **Mechanical:** Maximum Tightening Torque: 18 inches/pound 2.03 Nm.; Operating Temperature: 130°C **Physical:** Insulator: PBT UL94 V-0, Black; Screws: Bronze; Screw Plating: Tin; Pressure Clamp: Brass; Pressure Clamp Plating: Nickel; Contacts: Copper; Contact Plating: Tin

15.00mm Eurostyle High Power Fixed Blocks: **Ratings:** UL and CSA Agencies: UL: File No. E48521, Guide No. XCFR2; CSA: File No. 025562 **Electrical:** Voltage: 600V, Maximum Current: 90Amp; Insulation Resistance: > 50,000GΩ **Mechanical:** Max. Tightening Torque: 24 inches/pound 2.71 Nm.; Operating Temperature: 130°C **Physical:** Insulator: PBT UL94 V-0, Black; Screws: Bronze; Screw Plating: Tin; Pressure Clamp: Brass; Pressure Clamp Plating: Nickel; Contacts: Copper; Contact Plating: Tin

Fig.	No. of Con.	Dim. – mm A	Dim. – mm B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Molex Part No.
NEW! 8.00mm Two-Screw Terminal Strip, with Wire Protector — RoHS Compliant								
1	2	13.46	18.2	WM15900-ND	.97	.86	.57	39100-0802
	3	21.46	18.2	WM15901-ND	1.35	1.20	.80	39100-0803
	4	29.46	18.2	WM15902-ND	1.87	1.65	1.10	39100-0804
	6	45.47	18.2	WM15904-ND	2.70	2.39	1.59	39100-0806
	6	45.47	18.2	WM15905-ND*	2.57	2.28	1.52	39100-0906
	12	93.47	18.2	WM15907-ND	4.63	4.09	2.73	39100-0812
NEW! 10.00mm Two-Screw Terminal Strip, with Wire Protector — RoHS Compliant								
1	3	27.00	18.8	WM15908-ND	1.61	1.42	.95	39100-1003
	3	27.00	18.8	WM15909-ND*	1.61	1.42	.95	39100-1103
	4	37.00	18.8	WM15910-ND	2.19	1.94	1.29	39100-1004
	5	47.00	18.8	WM15911-ND	2.83	2.50	1.67	39100-1005
	6	57.00	18.8	WM15912-ND	3.22	2.84	1.90	39100-1006
	8	77.00	18.8	WM15913-ND	3.86	3.41	2.28	39100-1008
NEW! 12.00mm Two-Screw Terminal Strip, with Wire Protector — RoHS Compliant								
1	10	116.00	23.2	WM15916-ND	5.86	5.17	3.45	39100-1210
	12	140.00	23.2	WM15917-ND	6.37	5.63	3.75	39100-1212
3.50mm Eurostyle Pluggable PCB Terminal Block, 180°								
2	2	7.11	3.50	WM5605-ND	2.60	2.30	1.53	39351-0002
	3	10.41	7.00	WM5606-ND	3.81	3.36	2.24	39351-0003
	4	13.97	10.50	WM5607-ND	5.02	4.43	2.96	39351-0004
	5	17.53	14.00	WM5608-ND	6.23	5.50	3.67	39351-0005
	6	21.08	17.50	WM5609-ND	7.44	6.57	4.38	39351-0006
	7	24.64	21.00	WM5610-ND	8.65	7.63	5.09	39351-0007
	8	27.94	24.50	WM5611-ND	9.86	8.70	5.80	39351-0008
	9	31.50	28.00	WM5612-ND	11.06	9.77	6.51	39351-0009
	10	35.05	31.50	WM5613-ND	12.27	10.83	7.23	39351-0010
	11	38.61	35.00	WM5614-ND	13.48	11.90	7.94	39351-0011
	12	41.91	38.50	WM5615-ND	14.69	12.97	8.65	39351-0012
	13	45.47	42.00	WM5616-ND	15.90	14.04	9.36	39351-0013
	14	49.02	45.50	WM5617-ND	17.11	15.10	10.07	39351-0014
	15	52.58	50.00	WM5618-ND	18.32	16.17	10.78	39351-0015
	16	56.13	52.50	WM5619-ND	19.53	17.24	11.49	39351-0016
	17	59.44	56.00	WM5620-ND	20.74	18.31	12.21	39351-0017
	18	62.99	59.50	WM5621-ND	21.95	19.37	12.92	39351-0018
	19	66.55	63.00	WM5622-ND	23.16	20.44	13.63	39351-0019
	20	70.10	66.50	WM5623-ND	24.37	21.51	14.34	39351-0020
3.50mm Eurostyle High Temperature PCB Header, Closed End, Vertical								
3	2	7.51	3.50	WM5624-ND	1.17	1.04	.70	39353-0002
	3	11.01	7.00	WM5625-ND	1.67	1.48	.99	39353-0003
	4	14.51	10.50	WM5626-ND	2.17	1.92	1.28	39353-0004
	5	18.01	14.00	WM5627-ND	2.67	2.36	1.57	39353-0005
	6	21.51	17.50	WM5628-ND	3.17	2.80	1.87	39353-0006
	7	25.01	21.00	WM5629-ND	3.66	3.24	2.16	39353-0007
	8	28.51	24.50	WM5630-ND	4.16	3.68	2.45	39353-0008
	9	32.01	28.00	WM5631-ND	4.66	4.12	2.75	39353-0009
	10	35.51	31.50	WM5632-ND	5.16	4.56	3.04	39353-0010
	11	39.01	35.00	WM5633-ND	5.66	5.00	3.33	39353-0011
	12	42.51	38.50	WM5634-ND	6.15	5.44	3.63	39353-0012
	13	46.01	42.00	WM5635-ND	6.65	5.88	3.92	39353-0013
	14	49.51	45.50	WM5636-ND	7.15	6.31	4.21	39353-0014
	15	53.01	50.00	WM5637-ND	7.65	6.75	4.50	39353-0015
	16	56.51	52.50	WM5638-ND	8.15	7.19	4.80	39353-0016
	17	60.01	56.00	WM5639-ND	8.65	7.63	5.09	39353-0017
	18	63.51	59.50	WM5640-ND	9.14	8.07	5.38	39353-0018
	19	67.01	63.00	WM5641-ND	9.64	8.51	5.68	39353-0019
	20	70.51	66.50	WM5642-ND	10.14	8.95	5.97	39353-0020
3.50mm Eurostyle High Temperature PCB Header, Closed End, Right Angle								
4	2	7.51	3.50	WM5643-ND	1.17	1.04	.70	39355-0002
	3	11.01	7.00	WM5644-ND	1.67	1.48	.99	39355-0003
	4	14.51	10.50	WM5645-ND	2.17	1.92	1.28	39355-0004
	5	18.01	14.00	WM5646-ND	2.67	2.36	1.57	39355-0005
	6	21.51	17.50	WM5647-ND	3.17	2.80	1.87	39355-0006
	7	25.01	21.00	WM5648-ND	3.66	3.24	2.16	39355-0007
	8	28.51	24.50	WM5649-ND	4.16	3.68	2.45	39355-0008
	9	32.01	28.00	WM5650-ND	4.66	4.12	2.75	39355-0009
	10	35.51	31.50	WM5651-ND	5.16	4.56	3.04	39355-0010
	11	39.01	35.00	WM5652-ND	5.66	5.00	3.33	39355-0011
	12	42.51	38.50	WM5653-ND	6.15	5.44	3.63	39355-0012
	13	46.01	42.00	WM5654-ND	6.65	5.88	3.92	39355-0013
	14	49.51	45.50	WM5655-ND	7.15	6.31	4.21	39355-0014
	15	53.01	49.00	WM5656-ND	7.65	6.75	4.50	39355-0015
	16	56.51	52.50	WM5657-ND	8.15	7.19	4.80	39355-0016
	17	60.01	56.00	WM5658-ND	8.65	7.63	5.09	39355-0017
	18	63.51	59.50	WM5659-ND	9.14	8.07	5.38	39355-0018
	19	67.01	63.00	WM5660-ND	9.64	8.51	5.68	39355-0019
	20	70.51	66.50	WM5661-ND	10.14	8.95	5.97	39355-0020
5.00mm Eurostyle Pluggable PCB Terminal Block								
6	2	9.9	5	WM5862-ND	2.07	1.83	1.23	39870-0102
	3	14.9	10	WM5863-ND	3.18	2.81	1.87	39870-0103
	4	19.9	15	WM5864-ND	4.21	3.72	2.48	39870-0104
	5	24.9	20	WM5865-ND	5.25	4.64	3.09	39870-0105
	6	29.9	25	WM5866-ND	6.29	5.55	3.70	39870-0106
	7	34.9	30	WM5867-ND	7.32	6.47	4.31	39870-0107
	8	39.9	35	WM5868-ND	8.36	7.38	4.92	39870-0108
	9	44.9	40	WM5869-ND	9.40	8.30	5.53	39870-0109
	10	49.9	45	WM5870-ND	10.50	9.27	6.18	39870-0110
	12	59.9	55	WM5871-ND	12.58	11.10	7.40	39870-0112
5.00mm Eurostyle Pluggable PCB Header, Closed Ends, Vertical								
7	2	11.3	5	WM5872-ND	.78	.69	.46	39870-0502
	3	16.3	10	WM5873-ND	1.17	1.03	.69	39870-0503
	4	21.3	15	WM5874-ND	1.62	1.43	.96	39870-0504
	5	26.3	20	WM5875-ND	2.01	1.78	1.19	39870-0505
	6	31.3	25	WM5876-ND	2.40	2.12	1.42	39870-0506
	7	36.9	30	WM5877-ND	2.79	2.46	1.64	39870-0507
	8	41.9	35	WM5878-ND	3.18	2.81	1.87	39870-0508
	9	46.9	40	WM5879-ND	3.63	3.21	2.14	39870-0509
	10	51.9	45	WM5880-ND	4.02	3.55	2.37	39870-0510
	12	62.0	55	WM5881-ND	4.80	4.24	2.83	39870-0512
5.00mm Eurostyle Pluggable PCB Header, Closed Ends, Right-Angle								
8	2	11.3	5	WM5882-ND	.78	.69	.46	39870-0702
	3	16.3	10	WM5883-ND	1.17	1.03	.69	39870-0703
	4	21.3	15	WM5884-ND	1.62	1.43	.96	39870-0704
	5	26.3	20	WM5885-ND	2.01	1.78	1.19	39870-0705
	6	31.3	25	WM5886-ND	2.40	2.12	1.42	39870-0706
	7	36.9	30	WM5887-ND	2.79	2.46	1.64	39870-0707
	8	41.9	35	WM5888-ND	3.18	2.81	1.87	39870-0708
	9	46.9	40	WM5889-ND	3.63	3.21	2.14	39870-0709
	10	51.9	45	WM5890-ND	4.02	3.55	2.37	39870-0710
	12	62.0	55	WM5891-ND	4.80	4.24	2.83	39870-0712
5.08mm Eurostyle Pluggable PCB Terminal Block, Right-Angle								
9	2	10	5.1	WM5827-ND	2.07	1.83	1.23	39860-0102
	3	15.1	10.2	WM5828-ND	3.18	2.81	1.87	39860-0103
	5	25.3	20.3	WM5830-ND	5.25	4.64	3.09	39860-0105
9	6	30.4	25.4	WM5831-ND	6.29	5.55	3.70	39860-0106
	8	40.5	35.6	WM5832-ND	8.36	7.38	4.92	39860-0108
	10	50.7	45.7	WM5833-ND	10.50	9.27	6.18	39860-0110
	12	60.8	55.9	WM5834-ND	12.58	11.10	7.40	39860-0112
5.08mm Eurostyle Pluggable PCB Terminal Block, Vertical								
10	2	10	5.1	WM5835-ND	2.63	2.33	1.55	39860-0202
	3	15.1	10.2	WM5836-ND	3.98	3.52	2.35	39860-0203
	4	20.2	15.2	WM5837-ND	5.26	4.65	3.10	39860-0204
	5	25.3	20.3	WM5838-ND	6.62	5.84	3.90	39860-0205
	6	30.4	25.4	WM5839-ND	7.90	6.97	4.65	39860-0206
	8	40.5	35.6	WM5840-ND	10.55	9.32	6.21	39860-0208
	10	50.7	45.7	WM5841-ND	13.23	11.68	7.79	39860-0210
11	2	10	5.1	WM5842-ND	2.63	2.33	1.55	39860-0302
	3	15.1	10.2	WM5843-ND	3.98	3.52	2.35	39860-0303
	4	20.2	15.2	WM5844-ND	5.26	4.65	3.10	39860-0304
	6	30.4	25.4	WM5845-ND	7.90	6.97	4.65	39860-0306
5.08mm Eurostyle Pluggable PCB Header, Closed Ends, Vertical								
12	2	11.4	5.1	WM5846-ND	.78	.69	.46	39860-0502
	3	16.5	10.2	WM5847-ND	1.17	1.03	.69	39860-0503
	4	21.6	15.2	WM5848-ND	1.62	1.43	.96	39860-0504
	5	26.7	20.3	WM5849-ND	2.01	1.78	1.19	39860-0505
	6	31.8	25.4	WM5850-ND	2.40	2.12	1.42	39860-0506
	8	42.5	35.6	WM5851-ND	3.18	2.81	1.87	39860-0508
	10	52.7	45.7	WM5852-ND	4.02	3.55	2.37	39860-0510
	12	62.8	55.9	WM5853-ND	4.80	4.24	2.83	39860-0512
5.08mm Eurostyle Pluggable PCB Header, Closed Ends, Right-Angle								
8	2	11.4	5.1	WM5854-ND	.78	.69	.46	39860-0702
	3	16.5	10.2	WM5855-ND	1.17	1.03	.69	39860-0703
	4	21.6	15.2	WM5856-ND	1.62	1.43	.96	39860-0704
	5	26.7	20.3	WM5857-ND	2.01	1.78	1.19	39860-0705
	6	31.8	25.4	WM5858-ND	2.40	2.12	1.42	39860-0706
	8	42.5	35.6	WM5859-ND	3.18	2.81	1.87	39860-0708
	10	52.7	45.7	WM5860-ND	4.02	3.55	2.37	39860-0710
	12	62.8	55.9	WM5861-ND	4.80	4.24	2.83	39860-0712
NEW! 5.00mm Eurostyle Economy Screw Terminal Block — RoHS Compliant								
13	2	10.0	—	WM15825-ND	.90	.80	.53	39890-0302
	3	15.0	—	WM15826-ND	1.35	1.20	.80	39890-0303
5.08mm Eurostyle Single-Piece (Fixed) Block								
5	2	10.7	5.1	WM5892-ND	1.36	1.21	.81	39880-0102
	3	15.7	10.2	WM5893-ND	2.01	1.78	1.19	39880-0103
	4	20.8	15.2	WM5894-ND	2.72	2.41	1.61	39880-0104
	5	25.9	20.3	WM5895-ND	3.37	2.98	1.99	39880-0105
	6	31	25.4	WM5896-ND	4.08	3.61	2.41	39880-0106
	8	41.1	35.6	WM5897-ND	5.44	4.81	3.21	39880-0108
	10	51.3	45.7	WM5898-ND	6.81	6.01	4.01	39880-0110
10.16mm Eurostyle High Power Fixed Blocks								
14	2	21.84	10.16	WM5964-ND	4.69	4.22	3.76	39910-0102
	3	32.00	20.32	WM5965-ND	6.36	5.73	5.09	39910-0103
	4	42.16	30.48	WM5966-ND	7.99	7.20	6.40	39910-0104
	6	62.48	50.80	WM5967-ND	11.29	10.17	9.04	39910-0106
	8	82.80	71.12	WM5968-ND	14.61	13.16	11.70	39910-0108
15.00mm Eurostyle High Power Fixed Blocks								
15	2	29.21	14.99	WM5969-ND	7.35	6.62	5.89	39920-0102
	3	44.20	30.00	WM5970-ND	9.60	8.64	7.68	39920-0103
	4	59.18	44.96	WM5971-ND	11.85	10.67	9.48	39920-0104
	6	89.15	74.93	WM5972-ND	16.39	14.76	13.12	39920-0106
	8	119.13	104.90	WM5973-ND	20.86	18.78	16.69	39920-0108

* Low Profile

ON-SHORE TECHNOLOGY, INC.

Terminal Blocks

UL# E101811, 86ME2081
CSA# 068503X0000

These On-Shore Technology Terminal Blocks are Stackable for any number of contacts. 4.5mm Lead Length.

Fig. 1

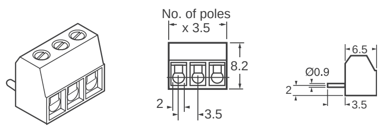

SPECIFICATIONS: • Rated Voltage: 125V • Rated Current: 6A • Wire Size: 28-16AWG • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Gray

Fig. 2

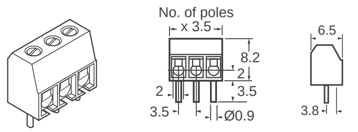

SPECIFICATIONS: • Rated Voltage: 125V • Rated Current: 6A • Wire Size: 28-16AWG • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Gray

Fig. 3

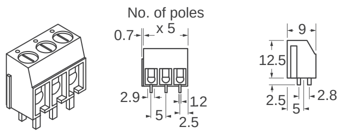

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-12AWG • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Gray

Fig. 4

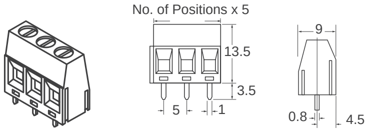

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 16A • Wire Size: 28-12AWG • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Green

Fig. 5

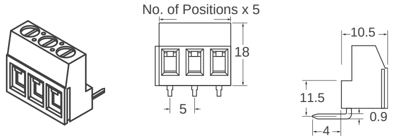

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 22-14AWG • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Green

Fig. 6

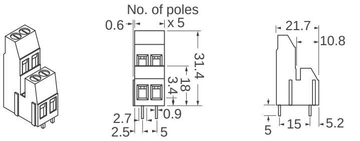

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 30-12AWG • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Green

Fig. 7

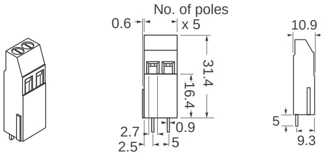

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 20A • Wire Size: 30-12AWG • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Green

Fig. 8

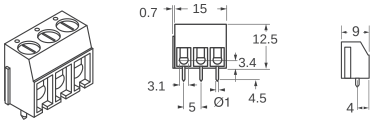

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: AWG 22-14 • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Blue

Fig. 9

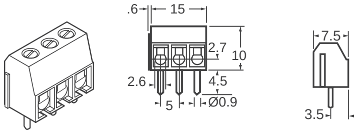

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: AWG 22-14 • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Blue

Fig. 10

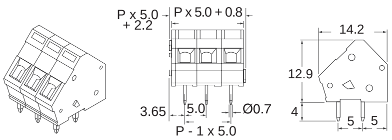

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Slate Gray

Fig. 11

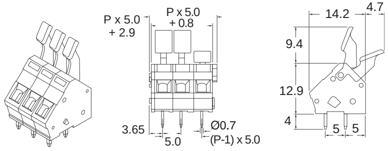

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Slate Gray

Fig. 12

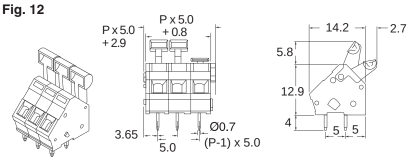

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL94V-0 • Color: Slate Gray

Fig.	No. of Pos.	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
3.5mm Lead Spacing - Terminal Blocks						
1	2	7.0	ED1501-ND	.45	.41	.36
	3	10.5	ED1502-ND	.67	.61	.54
	4	14.0	ED1503-ND	.90	.81	.72
	5	17.5	ED1504-ND	1.12	1.01	.90
	6	21.0	ED1505-ND	1.35	1.22	1.08
	7	24.5	ED1506-ND	1.57	1.42	1.26
	8	28.0	ED1507-ND	1.79	1.62	1.44
	9	31.5	ED1508-ND	2.02	1.82	1.62
	10	35.0	ED1509-ND	2.24	2.02	1.80
	11	38.5	ED1510-ND	2.47	2.22	1.98
	12	42.0	ED1511-ND	2.69	2.42	2.15
	14	49.0	ED1512-ND	3.14	2.83	2.51
	16	56.0	ED1513-ND	3.59	3.23	2.87
2	2	7.0	ED1514-ND	.45	.41	.36
	3	10.5	ED1515-ND	.67	.61	.54
	4	14.0	ED1516-ND	.90	.81	.72
	5	17.5	ED1517-ND	1.12	1.01	.90
	6	21.0	ED1518-ND	1.35	1.22	1.08
	7	24.5	ED1519-ND	1.57	1.42	1.26
	8	28.0	ED1520-ND	1.79	1.62	1.44
	9	31.5	ED1521-ND	2.02	1.82	1.62
	10	35.0	ED1522-ND	2.24	2.02	1.80
	11	38.5	ED1523-ND	2.47	2.22	1.98
	12	42.0	ED1524-ND	2.69	2.42	2.15
	14	49.0	ED1525-ND	3.14	2.83	2.51
	16	56.0	ED1526-ND	3.59	3.23	2.87
5.0mm Lead Spacing - Terminal Blocks						
3	2	10.0	ED1556-ND	.73	.66	.59
	3	15.0	ED1557-ND	1.09	.99	.88
	4	20.0	ED1558-ND	1.46	1.31	1.17
	5	25.0	ED1559-ND	1.82	1.64	1.46
	6	30.0	ED1560-ND	2.19	1.97	1.75
	7	35.0	ED1561-ND	2.55	2.30	2.04
	8	40.0	ED1562-ND	2.91	2.63	2.33
	9	45.0	ED1563-ND	3.28	2.95	2.62
	10	50.0	ED1564-ND	3.64	3.28	2.92
	11	55.0	ED1565-ND	4.01	3.61	3.21
	12	60.0	ED1566-ND	4.37	3.94	3.50
4	2	10.0	ED1930-ND	.62	.56	.50
	3	15.0	ED1931-ND	.93	.84	.74
5	2	10.0	ED1932-ND	.98	.89	.79
	3	15.0	ED1933-ND	1.47	1.33	1.18
6	2	10.0	ED1578-ND	2.24	2.02	1.80
	4	20.0	ED1580-ND	4.48	4.04	3.59
	5	25.0	ED1581-ND	5.60	5.04	4.48
	6	30.0	ED1582-ND	6.72	6.05	5.38
	7	35.0	ED1583-ND	7.84	7.06	6.28
	8	40.0	ED1584-ND	8.96	8.07	7.17
	9	45.0	ED1585-ND	10.08	9.08	8.07
	10	50.0	ED1586-ND	11.20	10.08	8.96
	11	55.0	ED1587-ND	12.32	11.09	9.86
	12	60.0	ED1588-ND	13.44	12.10	10.76
7	2	10.0	ED1589-ND	1.37	1.24	1.10
	4	20.0	ED1591-ND	2.75	2.48	2.20
	6	30.0	ED1593-ND	4.12	3.71	3.30
	8	40.0	ED1595-ND	5.49	4.94	4.39
	10	50.0	ED1597-ND	6.86	6.18	5.49
	12	60.0	ED1599-ND	8.23	7.41	6.59
8	2	10.0	ED1601-ND	.38	.35	.31
	3	15.0	ED1602-ND	.58	.52	.46
	4	20.0	ED2233-ND	.77	.70	.62
	6	30.0	ED2234-ND	1.16	1.05	.93
	8	40.0	ED2235-ND	1.55	1.40	1.24
	12	60.0	ED2236-ND	2.32	2.09	1.86
9	2	10.0	ED1623-ND	.42	.38	.34
	3	15.0	ED1624-ND	.62	.56	.50
	4	20.0	ED2221-ND	.83	.75	.67
	5	25.0	ED2222-ND	1.04	.94	.83
	6	30.0	ED2223-ND	1.24	1.12	1.00
	7	35.0	ED2224-ND	1.45	1.31	1.16
	10	50.0	ED2225-ND	2.07	1.87	1.66
	12	60.0	ED2226-ND	2.49	2.24	1.99
10	2	10.0	ED2237-ND	.67	.61	.54
	3	15.0	ED2238-ND	1.01	.91	.81
	4	20.0	ED2239-ND	1.35	1.22	1.08
	5	25.0	ED2240-ND	1.68	1.52	1.35
	6	30.0	ED2241-ND	2.02	1.82	1.62
	7	35.0	ED2242-ND	2.35	2.12	1.89
	8	40.0	ED2243-ND	2.69	2.42	2.15
	9	45.0	ED2244-ND	3.03	2.73	2.42
	10	50.0	ED2245-ND	3.36	3.03	2.69
	11	55.0	ED2246-ND	3.70	3.33	2.96
	12	60.0	ED2247-ND	4.03	3.63	3.23
11	2	10.0	ED2248-ND	.81	.74	.65
	3	15.0	ED2249-ND	1.22	1.10	.98
	4	20.0	ED2250-ND	1.63	1.47	1.30
	5	25.0	ED2251-ND	2.03	1.83	1.63
	6	30.0	ED2252-ND	2.44	2.20	1.95
	7	35.0	ED2253-ND	2.84	2.56	2.28
	8	40.0	ED2254-ND	3.25	2.93	2.60
	9	45.0	ED2255-ND	3.66	3.29	2.93
	10	50.0	ED2256-ND	4.06	3.66	3.25
	11	55.0	ED2257-ND	4.47	4.02	3.58
	12	60.0	ED2258-ND	4.87	4.39	3.90
12	2	10.0	ED2259-ND	.81	.74	.65
	3	15.0	ED2260-ND	1.22	1.10	.98

(Continued)

Fig. 13

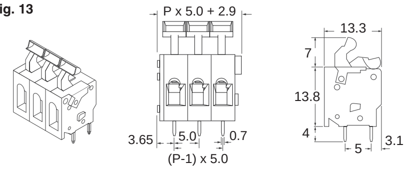

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL94V-O • Color: Slate Gray

Fig. 14

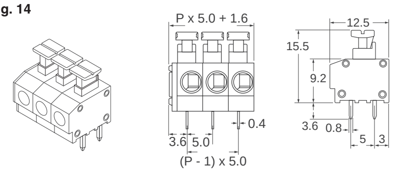

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 10A • Wire Size: 20-14AWG • Temp.: -30°C/105°C • Flammability: UL94V-O • Color: Slate Gray

Fig. 15

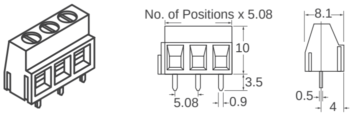

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 16A • Wire Size: 28-14AWG • Temp.: -30°C/105°C • Flammability: UL94V-O • Color: Green

Fig. 16

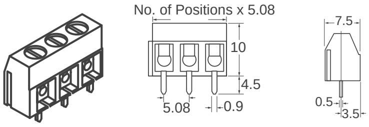

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temp: -30°C/105°C • Flammability: UL94V-O • Color: Blue

Fig. 17

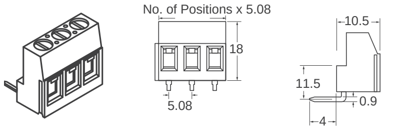

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temperature: -30°C/105°C • Flammability: UL94V-O • Color: Green

Fig. 18

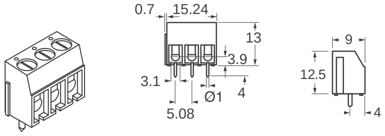

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-14AWG • Temp.: -30°C/105°C • Flammability: UL94V-O • Color: Blue

Fig. 19

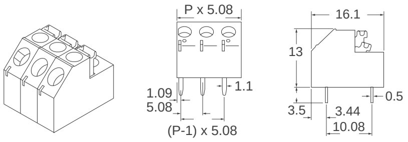

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-15AWG • Temp.: -30°C/105°C • Flammability: UL94V-O • Color: Slate Gray

Fig. 20

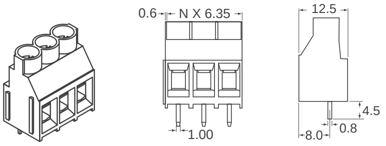

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 25A • Wire Size: 10-24AWG • Temperature: -33°C/120°C • Flammability: UL94V-O • Color: Green

Fig. 21

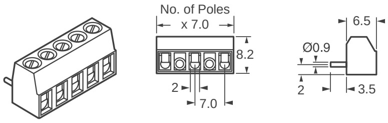

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 6A • Wire Size: 28-16AWG • Temperature: -30°C/105°C • Flammability: UL94V-O • Color: Gray

Fig. 22

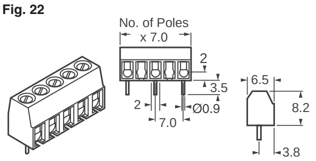

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 6A • Wire Size: 28-16AWG • Temperature: -30°C/105°C • Flammability: UL94V-O • Color: Gray

Fig. 23

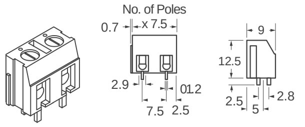

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 15A • Wire Size: 22-12AWG • Temperature: -30°C/105°C • Flammability: UL94V-O • Color: Gray

Fig. 24

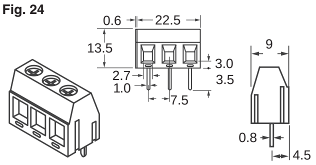

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 16A • Wire Size: 22-12AWG • Temperature: -30°C/105°C • Flammability: UL94V-O • Color: Green

Fig. 25

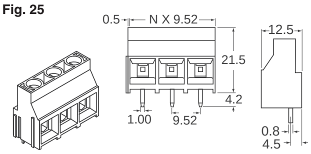

SPECIFICATIONS: • Rated Voltage: 300V • Rated Current: 25A • Wire Size: 10-24AWG • Temperature: -33°C/120°C • Flammability: UL94V-O • Color: Green

Fig.	No. of Pos.	Block Length (mm)	Digi-Key Part No.	Price Each		
				1	10	100
12	4	20.0	ED2261-ND	1.63	1.47	1.30
	5	25.0	ED2262-ND	2.03	1.83	1.63
	6	30.0	ED2263-ND	2.44	2.20	1.95
	7	35.0	ED2265-ND	2.84	2.56	2.28
	8	40.0	ED2266-ND	3.25	2.93	2.60
	9	45.0	ED2267-ND	3.66	3.29	2.93
	10	50.0	ED2268-ND	4.06	3.66	3.25
	11	55.0	ED2269-ND	4.47	4.02	3.58
	12	60.0	ED2270-ND	4.87	4.39	3.90
13	2	10.0	ED2293-ND	.76	.68	.61
	3	15.0	ED2294-ND	1.14	1.03	.91
	4	20.0	ED2295-ND	1.51	1.37	1.21
	5	25.0	ED2296-ND	1.89	1.71	1.52
	6	30.0	ED2297-ND	2.27	2.05	1.82
	7	35.0	ED2298-ND	2.65	2.39	2.12
	8	40.0	ED2299-ND	3.03	2.73	2.42
	9	45.0	ED2300-ND	3.40	3.07	2.73
	10	50.0	ED2301-ND	3.78	3.41	3.03
	11	55.0	ED2302-ND	4.16	3.75	3.33
	12	60.0	ED2303-ND	4.54	4.09	3.63
14	2	10.0	ED2315-ND	.81	.74	.65
	3	15.0	ED2316-ND	1.22	1.10	.98
	4	20.0	ED2317-ND	1.63	1.47	1.30
	5	25.0	ED2318-ND	2.03	1.83	1.63
	6	30.0	ED2319-ND	2.44	2.20	1.95
	7	35.0	ED2320-ND	2.84	2.56	2.28
	8	40.0	ED2321-ND	3.25	2.93	2.60
	9	45.0	ED2322-ND	3.66	3.29	2.93
	10	50.0	ED2323-ND	4.06	3.66	3.25
	11	55.0	ED2324-ND	4.47	4.02	3.58
	12	60.0	ED2325-ND	4.87	4.39	3.90
5.08mm Lead Spacing - Terminal Blocks						
15	2	10.16	ED1973-ND	.67	.61	.54
15	3	15.24	ED1974-ND	1.01	.91	.81
16	2	10.16	ED1975-ND	.45	.41	.36
	3	15.24	ED1976-ND	.67	.61	.54
17	2	10.16	ED1977-ND	.98	.89	.79
	3	15.24	ED1978-ND	1.47	1.33	1.18
18	2	10.16	ED1609-ND	.42	.38	.34
	3	15.24	ED1610-ND	.62	.56	.50
	4	20.32	ED2227-ND	.83	.75	.67
	5	25.40	ED2228-ND	1.04	.94	.83
	6	30.48	ED2229-ND	1.24	1.12	1.00
	7	35.56	ED2230-ND	1.45	1.31	1.16
	10	50.80	ED2231-ND	2.07	1.87	1.66
	12	60.96	ED2232-ND	2.49	2.24	1.99
19	2	10.16	ED2326-ND	.87	.79	.70
	3	15.24	ED2327-ND	1.30	1.18	1.05
	4	20.32	ED2328-ND	1.74	1.57	1.39
	5	25.40	ED2329-ND	2.17	1.96	1.74
	6	30.48	ED2330-ND	2.61	2.35	2.09
	7	35.56	ED2331-ND	3.04	2.74	2.43
6.35mm Lead Spacing - Terminal Blocks						
20	2	12.70	ED2675-ND	.80	.72	.64
	3	19.05	ED2676-ND	1.20	1.08	.96
7.0mm Lead Spacing - Terminal Blocks						
21	2	14.0	ED1527-ND	.49	.45	.40
	3	21.0	ED1528-ND	.74	.67	.60
	4	28.0	ED1529-ND	.99	.89	.79
	5	35.0	ED1530-ND	1.23	1.11	.99
	7	49.0	ED1532-ND	1.73	1.56	1.38
	8	56.0	ED1533-ND	1.97	1.78	1.58
22	2	14.0	ED1534-ND	.49	.45	.40
	3	21.0	ED1535-ND	.74	.67	.60
22	4	28.0	ED1536-ND	.99	.89	.79
	5	35.0	ED1537-ND	1.23	1.11	.99
	6	42.0	ED1538-ND	1.48	1.33	1.19
	7	49.0	ED1539-ND	1.73	1.56	1.38
	8	56.0	ED1540-ND	1.97	1.78	1.58
7.5mm Lead Spacing - Terminal Blocks						
23	2	15.0	ED1567-ND	.84	.76	.68
	3	22.5	ED1568-ND	1.26	1.14	1.01
	4	30.0	ED1569-ND	1.68	1.52	1.35
	5	37.5	ED1570-ND	2.10	1.89	1.68
	6	45.0	ED1571-ND	2.52	2.27	2.02
	7	52.5	ED1572-ND	2.94	2.65	2.36
	8	60.0	ED1573-ND	3.36	3.03	2.69
	9	67.5	ED1574-ND	3.78	3.41	3.03
	10	75.0	ED1575-ND	4.20	3.78	3.36
	11	82.5	ED1576-ND	4.62	4.16	3.70
	12	90.0	ED1577-ND	5.04	4.54	4.04
24	2	15.0	ED2354-ND	.76	.68	.61
	3	22.5	ED2355-ND	1.14	1.03	.91
	4	30.0	ED2356-ND	1.51	1.37	1.21
	5	37.5	ED2357-ND	1.89	1.71	1.52
	6	45.0	ED2358-ND	2.27	2.05	1.82
	7	52.5	ED2359-ND	2.65	2.39	2.12
	8	60.0	ED2360-ND	3.03	2.73	2.42
	9	67.5	ED2361-ND	3.40	3.07	2.73
	10	75.0	ED2362-ND	3.78	3.41	3.03
	11	82.5	ED2363-ND	4.16	3.75	3.33
	12	90.0	ED2364-ND	4.54	4.09	3.63
9.52mm Lead Spacing - Terminal Blocks						
25	2	19.04	ED2677-ND	.80	.72	.64
	3	28.56	ED2678-ND	1.20	1.08	.96

Two-Piece Terminal Blocks

Housings: PCB Mini-Terminal Block housings are precision molded from self-extinguishing 6.6 polyimide (nylon) molding material. All housings have funnel shaped wire entry guides to prevent wire fraying and minimize misconnections.

Fig. 1

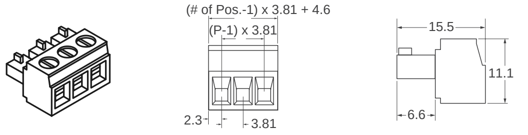

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Wire Size:** 28-16AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 2

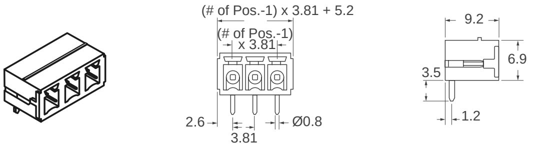

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 3

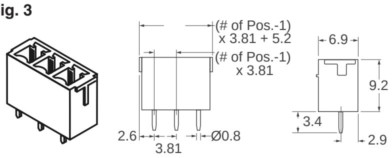

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 4

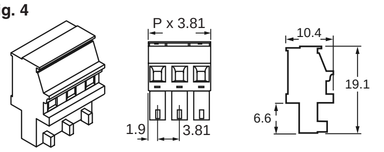

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Wire Size:** 28-16AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 5

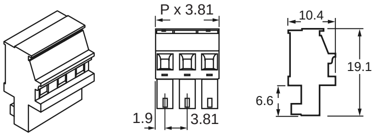

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 8A • **Wire Size:** 28-16AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 6

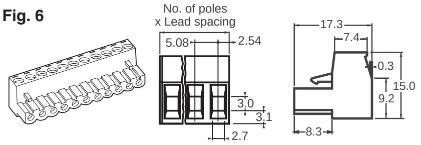

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 7

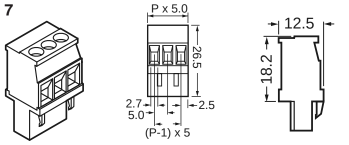

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-10AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 8

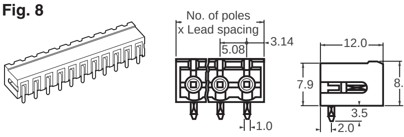

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
3.81mm Lead Spacing – Plugs						
1	2	8.41	ED1960-ND	1.29	1.16	1.03
	3	12.22	ED1961-ND	1.93	1.74	1.55
	4	16.03	ED1962-ND	2.58	2.32	2.06
	5	19.84	ED1963-ND	3.22	2.90	2.58
	6	23.65	ED1964-ND	3.87	3.48	3.10
	7	27.46	ED1965-ND	4.51	4.06	3.61
	8	31.27	ED1966-ND	5.15	4.64	4.13
	9	35.08	ED1967-ND	5.80	5.22	4.64
	10	38.89	ED1968-ND	6.44	5.80	5.16
	11	42.70	ED1969-ND	7.09	6.38	5.67
	12	46.51	ED1970-ND	7.73	6.96	6.19
	14	54.13	ED1971-ND	9.02	8.12	7.22
	16	61.75	ED1972-ND	10.31	9.28	8.25
3.81mm Lead Spacing — Horiz. Header						
2	2	9.01	ED1934-ND	.56	.51	.45
	3	12.82	ED1935-ND	.84	.76	.68
	4	16.63	ED1936-ND	1.12	1.01	.90
	5	20.44	ED1937-ND	1.40	1.26	1.12
	6	24.25	ED1938-ND	1.68	1.52	1.35
	7	28.06	ED1939-ND	1.96	1.77	1.57
	8	31.87	ED1940-ND	2.24	2.02	1.80
	9	35.68	ED1941-ND	2.52	2.27	2.02
	10	39.49	ED1942-ND	2.80	2.52	2.24
	11	43.30	ED1943-ND	3.08	2.78	2.47
	12	47.11	ED1944-ND	3.36	3.03	2.69
	14	54.73	ED1945-ND	3.92	3.53	3.14
	16	63.35	ED1946-ND	4.48	4.04	3.59
3.81mm Lead Spacing — Vert. Header						
3	2	9.01	ED1947-ND	.56	.51	.45
	3	12.82	ED1948-ND	.84	.76	.68
	4	16.63	ED1949-ND	1.12	1.01	.90
	5	20.44	ED1950-ND	1.40	1.26	1.12
	6	24.25	ED1951-ND	1.68	1.52	1.35
	7	28.06	ED1952-ND	1.96	1.77	1.57
	8	31.87	ED1953-ND	2.24	2.02	1.80
	9	35.68	ED1954-ND	2.52	2.27	2.02
	10	39.49	ED1955-ND	2.80	2.52	2.24
	11	43.30	ED1956-ND	3.08	2.78	2.47
	12	47.11	ED1957-ND	3.36	3.03	2.69
	14	54.73	ED1958-ND	3.92	3.53	3.14
	16	63.35	ED1959-ND	4.48	4.04	3.59
3.81mm Lead Spacing — Plugs						
4	2	7.62	ED2454-ND	1.01	.91	.81
	3	11.43	ED2455-ND	1.51	1.37	1.21
4	4	15.24	ED2456-ND	2.02	1.82	1.62
	5	19.05	ED2457-ND	2.52	2.27	2.02
	6	22.86	ED2458-ND	3.03	2.73	2.42
	7	26.67	ED2459-ND	3.53	3.18	2.83
	8	30.48	ED2460-ND	4.03	3.63	3.23
	9	34.29	ED2461-ND	4.54	4.09	3.63
	10	38.10	ED2462-ND	5.04	4.54	4.04
	12	45.72	ED2463-ND	6.05	5.45	4.84
	14	53.34	ED2464-ND	7.06	6.35	5.65
	16	60.96	ED2465-ND	8.07	7.26	6.46
3.81mm Lead Spacing — Plugs						
5	2	7.62	ED2466-ND	1.01	.91	.81
	3	11.43	ED2467-ND	1.51	1.37	1.21
	4	15.24	ED2468-ND	2.02	1.82	1.62
	5	19.05	ED2469-ND	2.52	2.27	2.02
	6	22.86	ED2470-ND	3.03	2.73	2.42
	7	26.67	ED2471-ND	3.53	3.18	2.83
	8	30.48	ED2472-ND	4.03	3.63	3.23
	9	34.29	ED2473-ND	4.54	4.09	3.63
	10	38.10	ED2474-ND	5.04	4.54	4.04
	12	45.72	ED2475-ND	6.05	5.45	4.84
	14	53.34	ED2476-ND	7.06	6.35	5.65
	16	60.96	ED2477-ND	8.07	7.26	6.46
5mm Lead Spacing — Plugs						
6	2	10	ED1701-ND*	1.04	.93	.82
	3	15	ED1702-ND*	1.57	1.40	1.23
	4	20	ED1703-ND*	1.79	1.62	1.44
	5	25	ED1704-ND*	2.24	2.02	1.80
	6	30	ED1705-ND*	2.69	2.42	2.15
	7	35	ED1706-ND*	3.14	2.83	2.51
	8	40	ED1707-ND*	3.59	3.23	2.87
	9	45	ED1708-ND*	4.03	3.63	3.23
	10	50	ED1709-ND*	4.48	4.04	3.59
	11	55	ED1710-ND*	4.93	4.44	3.95
	12	60	ED1711-ND*	5.38	4.84	4.30
	14	70	ED1712-ND*	6.27	5.65	5.02
	16	80	ED1713-ND*	7.17	6.46	5.74
	18	90	ED1714-ND*	8.07	7.26	6.46
	20	100	ED1715-ND*	8.96	8.07	7.17
	24	120	ED1716-ND*	10.75	9.68	8.61
5mm Lead Spacing — Plugs						
7	2	10	ED2376-ND	1.46	1.31	1.17
	3	15	ED2377-ND	2.19	1.97	1.75
	4	20	ED2378-ND	2.91	2.63	2.33
	5	25	ED2379-ND	3.64	3.28	2.92
	6	30	ED2380-ND	4.37	3.94	3.50
7	7	35	ED2381-ND	5.10	4.59	4.08
	8	40	ED2382-ND	5.83	5.25	4.66
	9	45	ED2383-ND	6.55	5.90	5.25
	10	50	ED2384-ND	7.28	6.56	5.83
	12	60	ED2385-ND	8.74	7.87	6.99
	14	70	ED2386-ND	10.19	9.18	8.16
	16	80	ED2387-ND	11.65	10.49	9.32
5mm Lead Spacing — Horiz. Headers						
8	2	10	ED1801-ND†	.38	.34	.30
	3	15	ED1802-ND†	.57	.52	.46
	4	20	ED1803-ND†	.77	.69	.61
	5	25	ED1804-ND†	.96	.86	.75
	6	30	ED1805-ND†	1.15	1.03	.90
	7	35	ED1806-ND†	1.34	1.20	1.05
	8	40	ED1807-ND†	1.53	1.37	1.21
	9	45	ED1808-ND†	1.72	1.54	1.35
	10	50	ED1809-ND†	1.91	1.71	1.50
	11	55	ED1810-ND†	2.10	1.88	1.65
	12	60	ED1811-ND†	2.29	2.05	1.80
	14	70	ED1812-ND†	2.68	2.39	2.10
	16	80	ED1813-ND†	3.06	2.73	2.40
	18	90	ED1814-ND†	3.44	3.08	2.70
	20	100	ED1815-ND†	3.83	3.42	3.00
	24	120	ED1816-ND†	4.59	4.10	3.60
5mm Lead Spacing — Vert. Headers ‡						
9	2	10	ED1833-ND†	.38	.34	.30
	3	15	ED1834-ND†	.57	.52	.46
	4	20	ED1835-ND†	.77	.69	.61
	5	25	ED1836-ND†	.96	.86	.75
	6	30	ED1837-ND†	1.15	1.03	.90
	7	35	ED1838-ND†	1.34	1.20	1.05
	8	40	ED1839-ND†	1.53	1.37	1.21
	9	45	ED1840-ND†	1.72	1.54	1.35
	10	50	ED1841-ND†	1.91	1.71	1.50
	11	55	ED1842-ND†	2.10	1.88	1.65
	12	60	ED1843-ND†	2.29	2.05	1.80
	14	70	ED1844-ND†	2.68	2.39	2.10
	16	80	ED1845-ND†	3.06	2.73	2.40
	18	90	ED1846-ND†	3.44	3.08	2.70
	20	100	ED1847-ND†	3.83	3.42	3.00
	24	120	ED1848-ND†	4.59	4.10	3.60
5.08mm Lead Spacing — Plugs						
6	2	10.16	ED1717-ND*	1.04	.93	.82
	3	15.24	ED1718-ND*	1.57	1.40	1.23
	4	20.32	ED1719-ND*	2.09	1.87	1.64
	5	25.40	ED1720-ND*	2.62	2.33	2.05
6	6	30.48	ED1721-ND*	3.14	2.80	2.45
	7	35.56	ED1722-ND*	3.66	3.26	2.86
	8	40.64	ED1723-ND*	4.18	3.73	3.27
	9	45.72	ED1724-ND*	4.71	4.19	3.68
	10	50.80	ED1725-ND*	5.23	4.66	4.09
	11	55.88	ED1726-ND*	5.75	5.12	4.49
	12	60.96	ED1727-ND*	6.27	5.59	4.90
	14	71.12	ED1728-ND*	7.32	6.45	5.72
	16	81.28	ED1729-ND*	8.36	7.36	6.54
	18	91.44	ED1730-ND*	9.41	8.29	7.35
	20	101.60	ED1731-ND*	10.45	9.21	8.17
	24	121.92	ED1732-ND*	12.54	11.05	9.80
5.08mm Lead Spacing — Plugs						
10	2	20.32	ED2409-ND	1.40	1.26	1.12
	3	25.40	ED2410-ND	2.10	1.89	1.68
	4	30.48	ED2411-ND	2.80	2.52	2.24
	5	35.56	ED2412-ND	3.50	3.15	2.80
	6	40.64	ED2413-ND	4.20	3.78	3.36
	7	45.72	ED2414-ND	4.90	4.41	3.92
	8	50.80	ED2415-ND	5.60	5.04	4.48
	9	55.88	ED2416-ND	6.30	5.67	5.04
	10	60.96	ED2417-ND	7.00	6.30	5.60
5.08mm Lead Spacing — Horiz. Headers						
8	2	10.16	ED1817-ND†	.38	.34	.30
	3	15.24	ED1818-ND†	.57	.52	.46
	4	20.32	ED1819-ND†	.77	.69	.61
	5	25.40	ED1820-ND†	.96	.86	.75
	6	30.48	ED1821-ND†	1.15	1.03	.90
	7	35.56	ED1822-ND†	1.34	1.20	1.05
	8	40.64	ED1823-ND†	1.53	1.37	1.21
	9	45.72	ED1824-ND†	1.72	1.54	1.35
	10	50.80	ED1825-ND†	1.91	1.71	1.50
	11	55.88	ED1826-ND†	2.10	1.88	1.65
	12	60.96	ED1827-ND†	2.29	2.05	1.80
	14	71.12	ED1828-ND†	2.68	2.39	2.10
	16	81.28	ED1829-ND†	3.06	2.73	2.40
	18	91.44	ED1830-ND†	3.44	3.08	2.70
	20	101.60	ED1831-ND†	3.83	3.42	3.00
	24	121.92	ED1832-ND†	4.59	4.10	3.60
5.08mm Lead Spacing — Horiz. Headers						
11	2	20.32	ED2427-ND	1.68	1.52	1.35
	3	25.40	ED2428-ND	1.68	1.52	1.35
	4	30.48	ED2429-ND	2.24	2.02	1.80
	5	35.56	ED2430-ND	2.80	2.52	2.24

* Use Keying Star ED1901-ND † Use Keying Star ED1902-ND
‡ Drawing shows 5.08 pitch *(Continued)*

Fig. 9

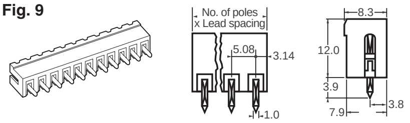

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 10

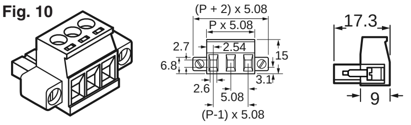

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 28-12AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 11

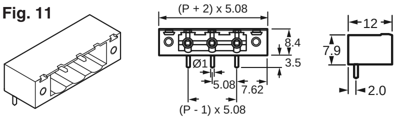

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 12

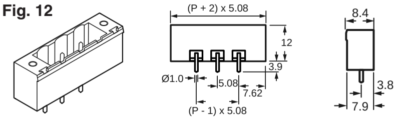

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 13

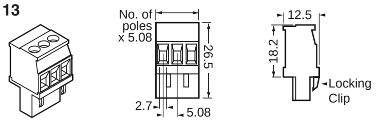

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-10AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 14

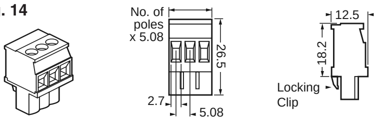

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-10AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94 V-0 • **Color:** Green

Fig. 15

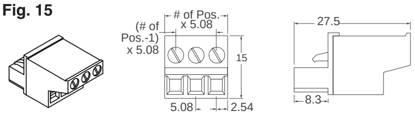

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 16

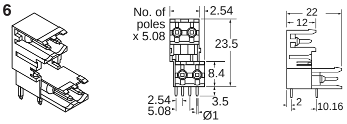

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 17

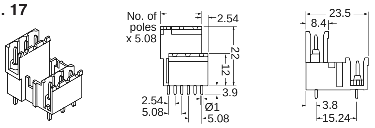

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 18

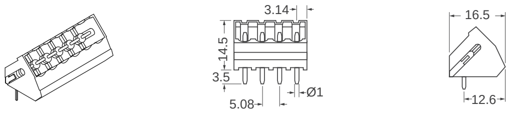

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 19

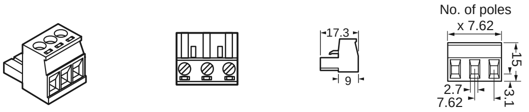

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Wire Size:** 22-12AWG • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 20

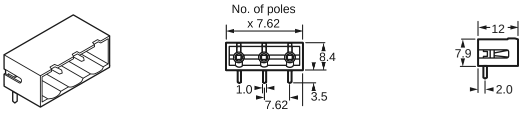

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig. 21

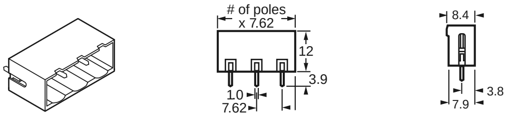

SPECIFICATIONS: • **Rated Voltage:** 300V • **Rated Current:** 15A • **Temperature:** -30°C/+105°C • **Flammability:** UL94V-0 • **Color:** Green

Fig.	No. of Poles	Block Length (mm)	Digi-Key Part No.	Price Each 1	10	100
11	6	40.64	ED2431-ND	3.36	3.03	2.69
	7	45.72	ED2432-ND	3.92	3.53	3.14
	8	50.80	ED2433-ND	4.48	4.04	3.59
	9	55.88	ED2434-ND	5.04	4.54	4.04
	10	60.96	ED2435-ND	5.60	5.04	4.48
5.08mm Lead Spacing — Vert. Headers						
9	2	10.16	ED1849-ND†	.38	.34	.30
	3	15.24	ED1850-ND†	.57	.52	.46
	4	20.32	ED1851-ND†	.77	.69	.61
	5	25.40	ED1852-ND†	.96	.86	.75
	6	30.48	ED1853-ND†	1.15	1.03	.90
	7	35.56	ED1854-ND†	1.34	1.20	1.05
	8	40.64	ED1855-ND†	1.53	1.37	1.21
	9	45.72	ED1856-ND†	1.72	1.54	1.35
	10	50.80	ED1857-ND†	1.91	1.71	1.50
	11	55.88	ED1858-ND†	2.10	1.88	1.65
	12	60.96	ED1859-ND†	2.29	2.05	1.80
	14	71.12	ED1860-ND†	2.68	2.39	2.10
	16	81.28	ED1861-ND†	3.06	2.73	2.40
	18	91.44	ED1862-ND†	3.44	3.08	2.70
	20	101.60	ED1863-ND†	3.83	3.42	3.00
	24	121.92	ED1864-ND†	4.59	4.10	3.60
5.08mm Lead Spacing — Vert. Headers						
12	2	20.32	ED2445-ND	1.68	1.52	1.35
	3	25.40	ED2446-ND	1.68	1.52	1.35
	4	30.48	ED2447-ND	2.24	2.02	1.80
	5	35.56	ED2448-ND	2.80	2.52	2.24
	6	40.64	ED2449-ND	3.36	3.03	2.69
	7	45.72	ED2450-ND	3.92	3.53	3.14
	8	50.80	ED2451-ND	4.48	4.04	3.59
	9	55.88	ED2452-ND	5.04	4.54	4.04
	10	60.96	ED2453-ND	5.60	5.04	4.48
5.08mm Lead Spacing — Vert. Plug						
13	2	10.16	ED1746-ND†	1.46	1.31	1.17
	3	15.24	ED1747-ND†	2.19	1.97	1.75
	4	20.32	ED1748-ND†	2.91	2.63	2.33
	5	25.40	ED1749-ND†	3.64	3.28	2.92
	6	30.48	ED1750-ND†	4.37	3.94	3.50
13	7	35.56	ED1751-ND†	5.10	4.59	4.08
	8	40.64	ED1752-ND†	5.83	5.25	4.66
	9	45.72	ED1753-ND†	6.55	5.90	5.25
	10	50.80	ED1754-ND†	7.28	6.56	5.83
	11	55.88	ED1755-ND†	8.01	7.21	6.41
	12	60.96	ED1756-ND†	8.74	7.87	6.99
	14	71.12	ED1757-ND†	10.19	9.18	8.16
	16	81.28	ED1758-ND†	11.65	10.49	9.32
5.08mm Lead Spacing — Vert. Plug						
14	2	10.16	ED1759-ND†	1.46	1.31	1.17
	3	15.24	ED1760-ND†	2.19	1.97	1.75
	4	20.32	ED1761-ND†	2.91	2.63	2.33
	5	25.40	ED1762-ND†	3.64	3.28	2.92
	6	30.48	ED1763-ND†	4.37	3.94	3.50
	7	35.56	ED1764-ND†	5.10	4.59	4.08
	8	40.64	ED1765-ND†	5.83	5.25	4.66
	9	45.72	ED1766-ND†	6.55	5.90	5.25
	10	50.80	ED1767-ND†	7.28	6.56	5.83
	11	55.88	ED1768-ND†	8.01	7.21	6.41
	12	60.96	ED1769-ND†	8.74	7.87	6.99
	14	71.12	ED1770-ND†	10.19	9.18	8.16
	16	81.28	ED1771-ND†	11.65	10.49	9.32
5.08mm Lead Spacing — Plugs						
15	2	5.08	ED1983-ND	2.24	2.02	1.80
	3	10.16	ED1984-ND	3.36	3.03	2.69
	4	15.24	ED1985-ND	4.48	4.04	3.59
	5	20.32	ED1986-ND	5.60	5.04	4.48
	6	25.40	ED1987-ND	6.72	6.05	5.38
	7	30.48	ED1988-ND	7.84	7.06	6.28
	8	35.56	ED1989-ND	8.96	8.07	7.17
	9	40.64	ED1990-ND	10.08	9.08	8.07
	10	45.72	ED1991-ND	11.20	10.08	8.96
	11	50.80	ED1992-ND	12.32	11.09	9.86
	12	55.88	ED1993-ND	13.44	12.10	10.76
	14	66.04	ED1994-ND	15.68	14.12	12.55
	16	76.20	ED1995-ND	17.92	16.13	14.34
	18	86.36	ED1996-ND	20.16	18.15	16.13
	20	96.52	ED1997-ND	22.40	20.16	17.92
	24	116.84	ED1998-ND	26.88	24.20	21.51
5.08mm Lead Spacing — Horiz. Headers						
16	4	5.08	ED1903-ND	1.68	1.52	1.35
	6	10.16	ED1904-ND	2.52	2.27	2.02
5.08mm Lead Spacing — Vert. Headers						
17	4	5.08	ED1905-ND	1.68	1.52	1.35
	6	10.16	ED1906-ND	2.52	2.27	2.02
5.08mm Lead Spacing — 45° Header						
18	2	5.08	ED1907-ND	.39	.36	.32
	3	10.16	ED1908-ND	.59	.53	.47
	4	15.24	ED1909-ND	.79	.71	.63
	5	20.32	ED1910-ND	.98	.89	.79
	6	25.40	ED1911-ND	1.18	1.06	.94
	7	30.48	ED1912-ND	1.37	1.24	1.10
	8	35.56	ED1913-ND	1.57	1.42	1.26
	9	40.64	ED1914-ND	1.77	1.59	1.42
	10	45.72	ED1915-ND	1.96	1.77	1.57
	11	50.80	ED1916-ND	2.16	1.94	1.73
	12	55.88	ED1917-ND	2.35	2.12	1.89
	13	60.96	ED1918-ND	2.55	2.30	2.04
	14	66.04	ED1919-ND	2.75	2.48	2.20
	15	71.12	ED1920-ND	2.94	2.65	2.36
	16	76.20	ED1921-ND	3.14	2.83	2.51
	17	81.28	ED1922-ND	3.33	3.00	2.67
	18	86.36	ED1923-ND	3.53	3.18	2.83
	19	91.44	ED1924-ND	3.73	3.36	2.98
	20	96.52	ED1925-ND	3.92	3.53	3.14
	21	101.60	ED1926-ND	4.12	3.71	3.30
	22	106.68	ED1927-ND	4.31	3.89	3.45
	23	111.76	ED1928-ND	4.51	4.06	3.61
	24	116.84	ED1929-ND	4.71	4.24	3.77
7.62mm Lead Spacing — Plugs						
19	2	15.24	ED1733-ND*	1.40	1.26	1.12
	3	22.86	ED1734-ND*	2.10	1.89	1.68
	4	30.48	ED1735-ND*	2.80	2.52	2.24
	5	38.10	ED1736-ND*	3.50	3.15	2.80
	6	45.72	ED1737-ND*	4.20	3.78	3.36
	7	53.34	ED1738-ND*	4.90	4.41	3.92
19	8	60.96	ED1739-ND*	5.60	5.04	4.48
	9	68.58	ED1740-ND*	6.30	5.67	5.04
	10	76.20	ED1741-ND*	7.00	6.30	5.60
	11	83.82	ED1742-ND*	7.70	6.93	6.16
	12	91.44	ED1743-ND*	8.40	7.56	6.72
	14	106.68	ED1744-ND*	9.80	8.82	7.84
	16	121.92	ED1745-ND*	11.20	10.08	8.96
7.62mm Lead Spacing — Horiz. Header						
20	2	15.24	ED1865-ND†	.51	.46	.41
	3	22.86	ED1866-ND†	.76	.68	.61
	4	30.48	ED1867-ND†	1.01	.91	.81
	5	38.10	ED1868-ND†	1.26	1.14	1.01
	6	45.72	ED1869-ND†	1.51	1.37	1.21
	7	53.34	ED1870-ND†	1.77	1.59	1.42
	8	60.96	ED1871-ND†	2.02	1.82	1.62
	9	68.58	ED1872-ND†	2.27	2.05	1.82
	10	76.20	ED1873-ND†	2.52	2.27	2.02
	11	83.82	ED1874-ND†	2.77	2.50	2.22
	12	91.44	ED1875-ND†	3.03	2.73	2.42
	14	106.68	ED1876-ND†	3.53	3.18	2.83
	16	121.92	ED1877-ND†	4.03	3.63	3.23
7.62mm Lead Spacing — Vert. Header						
21	2	15.24	ED1878-ND†	.51	.46	.41
	3	22.86	ED1879-ND†	.76	.68	.61
	4	30.48	ED1880-ND†	1.01	.91	.81
	5	38.10	ED1881-ND†	1.26	1.14	1.01
	6	45.72	ED1882-ND†	1.51	1.37	1.21
	7	53.34	ED1883-ND†	1.77	1.59	1.42
	8	60.96	ED1884-ND†	2.02	1.82	1.62
	9	68.58	ED1885-ND†	2.27	2.05	1.82
	10	76.20	ED1886-ND†	2.52	2.27	2.02
	11	83.82	ED1887-ND†	2.77	2.50	2.22
	12	91.44	ED1888-ND†	3.03	2.73	2.42
	14	106.68	ED1890-ND†	3.53	3.18	2.83
	16	121.92	ED1891-ND†	4.03	3.63	3.23
Keying Star			ED1901-ND	.79	.71	.63
Keying Star			ED1902-ND	.79	.71	.63

* Use Keying Star ED1901-ND † Use Keying Star ED1902-ND

ON-SHORE TECHNOLOGY, INC.

Pluggable Terminal Blocks and Pin Headers

Terminal Blocks: • **Hole Diameter**: 1.3mm • **Voltage**: 250V • **Current**: 16A • **Temperature**: -30°C ~ 120°C • **Plating:** BeCu • **Wire Size:** 14-22AWG • **Flame Class:** 94V-0 **Pin Headers:** • **Spacing:** 5mm • **Rated Voltage:** 300V (250V for ED2673-ND and ED2674-ND) • **Rated Current:** 10A • **Terminal Plating:** Tin

Fig. 1

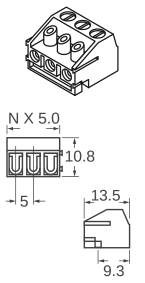

Fig. 2

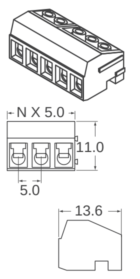

Fig. 3

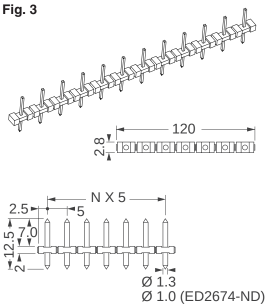

Fig.	No. of Pos.	Digi-Key Part No.	Pricing 1	10	100
Pluggable Terminal Blocks					
1	2	ED1613-ND	.69	6.23	55.40
	3	ED1614-ND	1.04	9.32	82.80
	4	ED2214-ND	1.39	12.51	111.20
	5	ED2215-ND	1.74	15.62	138.80
	6	ED2216-ND	2.08	18.74	166.60
	7	ED2217-ND	2.43	21.87	194.40
	10	ED2218-ND	3.47	31.25	277.80
	12	ED2219-ND	4.17	37.51	333.40
2	2	ED2655-ND	.34	3.02	26.80
	3	ED2656-ND	.51	4.55	40.40
	4	ED2657-ND	.67	6.05	53.80
	5	ED2658-ND	.84	7.56	67.20
	6	ED2659-ND	1.01	9.07	80.60
	7	ED2660-ND	1.18	10.58	94.00
	8	ED2661-ND	1.35	12.11	107.60
	10	ED2662-ND	1.68	15.12	134.40
	12	ED2663-ND	2.10	18.90	168.00
Pin Headers					
3	2	ED1660-ND	.28	2.50	22.25
	3	ED1661-ND	.31	2.77	24.58
3	4	ED1662-ND	.34	3.06	27.16
	5	ED1663-ND	.38	3.38	30.02
	6	ED1664-ND	.41	3.73	33.17
	7	ED1665-ND	.46	4.12	36.65
	8	ED1666-ND	.51	4.56	40.50
	9	ED1667-ND	.56	5.03	44.75
	10	ED1668-ND	.62	5.56	49.44
	11	ED1669-ND	.68	6.15	54.63
	12	ED1670-ND	.75	6.79	60.37
	13	ED1671-ND	.83	7.50	66.71
	14	ED1672-ND	.92	8.29	73.71
	15	ED1673-ND	1.02	9.16	81.45
	16	ED1674-ND	1.12	10.12	90.00
	17	ED1675-ND	1.24	11.19	99.44
	18	ED1676-ND	1.37	12.36	109.88
	19	ED1677-ND	1.52	13.66	121.42
	20	ED1678-ND	1.68	15.09	134.16
	21	ED1679-ND	1.85	16.68	148.24
	22	ED1680-ND	2.05	18.43	163.81
	23	ED1681-ND	2.26	20.36	181.00
	24	ED1682-ND	2.80	25.20	224.00
	24	ED2673-ND	1.68	15.12	134.40
	24	ED2674-ND	1.68	15.12	134.40

Terminal Blocks

UL# E101811, 86ME2081 **CSA# 068503X0000**

Specifications: • **Rated Currents:** 10A/15A/16A • **Insulator:** PA 6 GV/PBTP and PBT • **Temperature Ranges:** -30°C ~ 105°C/-33°C ~ 120 °C • **Flame Class:** 94V-0

Fig. 1 Cable Inlet: Front Current: 16A -30°C ~ 105°C

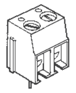

Fig. 2 Cable Inlet: Top Current: 16A -30°C ~ 105°C

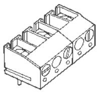

Fig. 3 Cable Inlet: 45° Current: 16A -30°C ~ 105°C

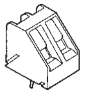

Fig. 4 Double Terminal Block Current: 16A -30°C ~ 105°C

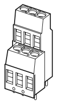

Fig. 5 Vertical Current: 16A -33°C ~ 120°C

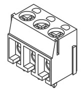

Fig. 6 Horizontal Current: 16A -33°C ~ 120°C

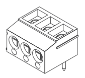

Fig. 7 Vertical Insulator: PBT Current: 16A -33°C ~ 120°C

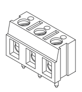

Fig. 8 Vertical Current: 16A -33°C ~ 120°C

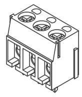

Fig. 9 Horizontal Current: 16A -33°C ~ 120°C

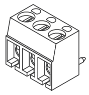

Fig. 10 Vertical Current: 16A -33°C ~ 120°C

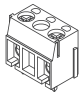

Fig. 11 Horizontal Current: 16A -33°C ~ 120°C

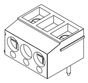

Fig. 12 Vertical Current: 16A -33°C ~ 120°C

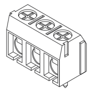

Fig. 13 Vertical Current: 16A -33°C ~ 120°C

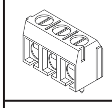

Fig. 14 Horizontal Current: 16A -33°C ~ 120°C

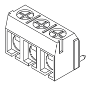

Fig. 15 Horizontal Current: 10A -33°C ~ 120°C

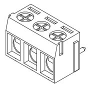

Fig. 16 Vertical Current: 10A -33°C ~ 120°C

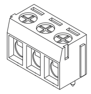

Fig. 17 Vertical Current: 16A -33°C ~ 120°C

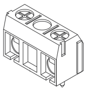

Fig. 18 Horizontal Current: 16A -33°C ~ 120°C

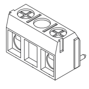

Fig. 19 Horizontal Current: 10A -33°C ~ 120°C

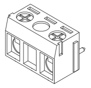

Fig. 20 Vertical Current: 15A -33°C ~ 120°C

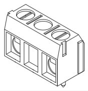

Fig. 21 Vertical Current: 10A -33°C ~ 120°C

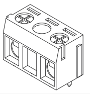

These On-Shore Technology Terminal Blocks are Stackable for any number of contacts. 4.5mm Lead Length.

Fig.	No. of Pos.	Lead Spacing (mm)	Rated Volt. (V-) VDE 0110	Terminal Plating	Block Length (mm)	Digi-Key Part No.	Pricing 1	10	100
1	2	5.0	250	Nickel	10	ED1631-ND	.73	6.55	58.20
	2	5.08	300	Tin	10.16	ED1643-ND	.62	5.54	49.20
	2	7.5	380	Tin	15-	ED1605-ND	.59	5.29	47.00
	2	10.0	500	Tin	15	ED1615-ND	.59	5.29	47.00
	2	10.0	250	Tin	15	ED1627-ND	.59	5.29	47.00
	2	10.0	500	Nickel	15	ED1633-ND	.90	8.06	71.60
	3	5.0	250	Nickel	15	ED1632-ND	1.09	9.83	87.40
	3	5.08	300	Tin	15.24	ED1644-ND	.93	8.33	74.00
	3	7.5	380	Tin	22.5	ED1606-ND	.88	7.94	70.60
	3	10.0	500	Tin	25	ED1616-ND	.88	7.94	70.60
	3	10.0	250	Tin	25	ED1628-ND	.88	7.94	70.60
	3	10.0	500	Nickel	25	ED1634-ND	1.35	12.11	107.60
2	2	5.0	250	Tin	10	ED1603-ND	.59	5.29	47.00
	2	5.0	125	Tin	10	ED1625-ND	.59	5.29	47.00
	2	5.08	250	Tin	10.16	ED1611-ND	.59	5.29	47.00
	2	7.5	380	Tin	15	ED1607-ND	.67	6.05	53.80
	2	10.0	250	Tin	15	ED1617-ND	.67	6.05	53.80
	2	10.0	250	Tin	15	ED1629-ND	.67	6.05	53.80
	3	5.0	250	Tin	15	ED1604-ND	.88	7.94	70.60
	3	5.0	125	Tin	15	ED1626-ND	.88	7.94	70.60
	3	5.08	250	Tin	15.25	ED1612-ND	.88	7.94	70.60
	3	7.5	380	Tin	22.5	ED1608-ND	1.01	9.07	80.60
	3	10.0	250	Tin	25	ED1618-ND	1.01	9.07	80.60
	3	10.0	250	Tin	25	ED1630-ND	1.01	9.07	80.60
3	2	5.0	250	Nickel	10	ED1619-ND	.66	5.90	52.40
	2	10.0	250	Nickel	15	ED1621-ND	.84	7.56	67.20
	3	5.0	250	Nickel	15	ED1620-ND	.98	8.82	78.40
	3	10.0	250	Nickel	25	ED1622-ND	1.26	11.34	100.80
4	2	5.0	300	Tin	10	ED1653-ND	1.43	12.85	114.20
	3	5.0	300	Tin	15	ED1654-ND	2.14	19.28	171.40
5	2	5.0	250	Tin	10	ED2561-ND	.28	2.52	22.40
	3	5.0	250	Tin	15	ED2562-ND	.42	3.78	33.60
	4	5.0	250	Tin	20	ED2563-ND	.56	5.04	44.80
	5	5.0	250	Tin	25	ED2565-ND	.70	6.30	56.00
	6	5.0	250	Tin	30	ED2566-ND	.84	7.56	67.20
	8	5.0	250	Tin	40	ED2567-ND	1.26	11.34	100.80
	10	5.0	250	Tin	50	ED2568-ND	1.40	12.60	112.00
	12	5.0	250	Tin	60	ED2569-ND	1.68	15.12	134.40
6	2	5.0	250	Brass	10	ED2570-ND	.34	3.02	26.80
	3	5.0	250	Brass	15	ED2571-ND	.51	4.55	40.40
	4	5.0	250	Brass	20	ED2572-ND	.67	6.05	53.80
	5	5.0	250	Brass	25	ED2573-ND	.84	7.56	67.20
	6	5.0	250	Brass	30	ED2574-ND	1.01	9.07	80.60
	8	5.0	250	Brass	40	ED2575-ND	1.35	12.11	107.60
	10	5.0	250	Brass	50	ED2576-ND	1.68	15.12	134.40
	12	5.0	250	Brass	60	ED2577-ND	2.02	18.14	161.20
7	2	7.5	250	CuZn	15	ED2578-ND	.45	4.03	35.80
	3	7.5	250	CuZn	22.5	ED2579-ND	.67	6.05	53.80
8	2	5.08	250	Brass	10.16	ED2580-ND	.28	2.52	22.40
	3	5.08	250	Brass	15.24	ED2581-ND	.42	3.78	33.60
	4	5.08	250	Brass	20.32	ED2582-ND	.56	5.04	44.80
	5	5.08	250	Brass	25.4	ED2583-ND	.70	6.30	56.00
	6	5.08	250	Brass	30.48	ED2584-ND	.84	7.56	67.20
	7	5.08	250	Brass	35.56	ED2585-ND	.98	8.82	78.40
	8	5.08	250	Brass	40.64	ED2586-ND	1.12	10.08	89.60
	10	5.08	250	Brass	50.8	ED2587-ND	1.40	12.60	112.00
	12	5.08	250	Brass	60.92	ED2588-ND	1.68	15.12	134.40
9	2	5.08	250	Brass	10.16	ED2589-ND	.34	3.02	26.80
	3	5.08	250	Brass	15.24	ED2590-ND	.51	4.55	40.40
	4	5.08	250	Brass	20.32	ED2591-ND	.67	6.05	53.80
	6	5.08	250	Brass	30.48	ED2592-ND	1.01	9.07	80.60
	8	5.08	250	Brass	40.64	ED2593-ND	1.35	12.11	107.60
	10	5.08	250	Brass	50.8	ED2594-ND	1.68	15.12	134.40
	12	5.08	250	Brass	60.96	ED2595-ND	2.02	18.14	161.20
10	2	10.0	250	Tin	15	ED2596-ND	.37	3.29	29.20
	3	10.0	250	Tin	25	ED2597-ND	.55	4.91	43.60
11	2	10.0	250	Brass	15	ED2598-ND	.39	3.53	31.40
11	3	10.0	250	Brass	25	ED2599-ND	.59	5.29	47.00
12	2	5.0	250	Brass	10	ED2600-ND	.28	2.52	22.40
	3	5.0	250	Brass	15	ED2601-ND	.42	3.78	33.60
	4	5.0	250	Brass	20	ED2602-ND	.56	5.04	44.80
	5	5.0	250	Brass	25	ED2603-ND	.70	6.30	56.00
	6	5.0	250	Brass	30	ED2604-ND	.84	7.56	67.20
	7	5.0	250	Brass	35	ED2605-ND	.98	8.82	78.40
	8	5.0	250	Brass	40	ED2606-ND	1.12	10.08	89.60
	10	5.0	250	Brass	50	ED2607-ND	1.40	12.60	112.00
	12	5.0	250	Brass	60	ED2608-ND	1.68	15.12	134.40
13	2	5.08	300	Brass	10.16	ED2609-ND	.28	2.52	22.40
	3	5.08	300	Brass	15.24	ED2610-ND	.42	3.78	33.60
	4	5.08	300	Brass	20.32	ED2611-ND	.56	5.04	44.80
	5	5.08	300	Brass	25.4	ED2612-ND	.70	6.30	56.00
	6	5.08	300	Brass	30.48	ED2613-ND	.84	7.56	67.20
	7	5.08	300	Brass	35.56	ED2614-ND	.98	8.82	78.40
	8	5.08	300	Brass	40.64	ED2615-ND	1.12	10.08	89.60
	10	5.08	300	Brass	50.8	ED2616-ND	1.40	12.60	112.00
	12	5.08	300	Brass	60.96	ED2617-ND	1.68	15.12	134.40
14	2	5.0	250	Brass	10	ED2618-ND	.34	3.02	26.80
	3	5.0	250	Brass	15	ED2619-ND	.51	4.55	40.40
	4	5.0	250	Brass	20	ED2620-ND	.67	6.05	53.80
	5	5.0	250	Brass	25	ED2621-ND	.84	7.56	67.20
	6	5.0	250	Brass	30	ED2622-ND	1.01	9.07	80.60
15	2	3.5	125	Brass	7	ED2623-ND	.34	3.02	26.80
	3	3.5	125	Brass	10.5	ED2624-ND	.51	4.55	40.40
	4	3.5	125	Brass	14	ED2625-ND	.67	6.05	53.80
	5	3.5	125	Brass	17.5	ED2626-ND	.84	7.56	67.20
	6	3.5	125	Brass	21	ED2627-ND	1.01	9.07	80.60
	7	3.5	125	Brass	24.5	ED2628-ND	1.18	10.58	94.00
	8	3.5	125	Brass	28	ED2629-ND	1.35	12.11	107.60
	9	3.5	125	Brass	31.5	ED2630-ND	1.51	13.61	121.00
	10	3.5	125	Brass	35	ED2631-ND	1.68	15.12	134.40
	12	3.5	125	Brass	42	ED2632-ND	2.02	18.14	161.20
	14	3.5	125	Brass	49	ED2633-ND	2.35	21.17	188.20
	16	3.5	125	Brass	56	ED2634-ND	2.69	24.19	215.00
16	2	3.5	125	Brass	7	ED2635-ND	.34	3.02	26.80
	3	3.5	125	Brass	10.5	ED2636-ND	.51	4.55	40.40
	4	3.5	125	Brass	14	ED2637-ND	.67	6.05	53.80
	5	3.5	125	Brass	17.5	ED2638-ND	.84	7.56	67.20
	6	3.5	125	Brass	21	ED2639-ND	1.01	9.07	80.60
	7	3.5	125	Brass	24.5	ED2640-ND	1.18	10.58	94.00
	8	3.5	125	Brass	28	ED2641-ND	1.35	12.11	107.60
	9	3.5	125	Brass	31.5	ED2642-ND	1.51	13.61	121.00
	10	3.5	125	Brass	35	ED2643-ND	1.68	15.12	134.40
	12	3.5	125	Brass	49	ED2644-ND	2.02	18.14	161.20
	14	3.5	125	Brass	56	ED2645-ND	2.35	21.17	188.20
	16	3.5	125	Brass	63	ED2646-ND	2.69	24.19	215.00
17	2	10.0	250	Brass	15	ED2647-ND	.34	3.02	26.80
	3	10.0	250	Brass	25	ED2648-ND	.51	4.55	40.40
18	2	10.0	250	Brass	15	ED2649-ND	.37	3.29	29.20
	3	10.0	250	Brass	25	ED2650-ND	.55	4.91	43.60
19	2	7.0	125	Brass	3.5	ED2651-ND	.37	3.33	29.60
	3	7.0	125	Brass	10.5	ED2652-ND	.56	5.00	44.40
20	2	10.16	300	Brass	15.24	ED2653-ND	.34	3.02	26.80
	3	10.16	300	Brass	25.4	ED2654-ND	.51	4.55	40.40
21	2	7.0	125	Brass	10.5	ED2666-ND	.34	3.02	26.80
	3	7.0	125	Brass	17.5	ED2667-ND	.51	4.55	40.40
	4	7.0	125	Brass	24.5	ED2668-ND	.67	6.05	53.80
	5	7.0	125	Brass	31.5	ED2669-ND	.84	7.56	67.20
	6	7.0	125	Brass	38.5	ED2670-ND	1.01	9.07	80.60
	7	7.0	125	Brass	45.5	ED2671-ND	1.18	10.58	94.00
	8	7.0	125	Brass	52.5	ED2672-ND	1.35	12.11	107.60

Insulation Types:
Insulkrimp®: PVC Insulated
Avikrimp®: Nylon Insulated
Krimptite®: Non-Insulated

Fig. 1

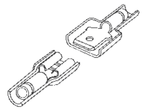

Fig. 2

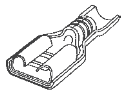

Fig. 3

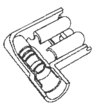

Fig. 4

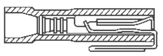

Fig. 5

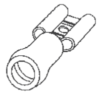

Fig. 6

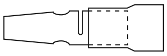

Fig. 7

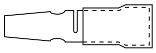

Fig. 8

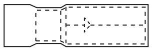

Fig. 9

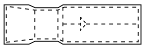

Fig. 10

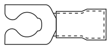

Fully-Insulated Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
			Avikrimp® - Male						
1	22-18 Red	18/23	.250 (6.35)	.140 (3.56)	WM18225-ND	.51	.41	.34	19001-0001
			.187 (4.75)	.140 (3.56)	WM18226-ND	.51	.41	.34	19001-0003
	16-14 Blue	18/23	.250 (6.35)	.170 (4.32)	WM18227-ND	.50	.40	.34	19001-0006
			.187 (4.75)	.170 (4.32)	WM18228-ND	.58	.47	.39	19001-0008
	12-10 Yellow	4/22	.250 (6.35)	.230 (5.84)	WM18229-ND	.60	.48	.40	19001-0010
			Avikrimp® - Female						
1	22-18 Red	15/22	.250 (6.35)	.125 (3.18)	WM18230-ND	.46	.37	.31	19002-0001
			.187 (4.75)	.125 (3.18)	WM18231-ND	.46	.37	.31	19002-0005
	16-14 Blue	15/22	.250 (6.35)	.155 (3.94)	WM18232-ND	.46	.37	.31	19002-0024
			.187 (4.75)	.155 (3.94)	WM18233-ND	.47	.38	.32	19002-0028
	12-10 Yellow	15/22	.250 (6.35)	.245 (6.22)	WM18234-ND	.55	.44	.37	19002-0044
			Insulkrimp® - Female (Standard Flare)						
2	26-24 Yellow	5/23	.250 (6.35)	.075 (1.91)	WM18235-ND	.24	.19	.16	19003-0071
			.187 (4.75)	.075 (1.91)	WM18236-ND	.24	.19	.16	19003-0064
	22-18 Red	15/23	.250 (6.35)	.135 (3.43)	WM18237-ND	.26	.21	.17	19003-0001
			.187 (4.75)	.135 (3.43)	WM18238-ND	.25	.20	.17	19003-0011
	22-18 Red	—/24	.187 x .032 (4.75 x 0.81)	.135 (3.43)	WM5928-ND*	.28	.23	.19	19003-0129
	16-14 Blue	14/23	.250 (6.35)	.145 (3.68)	WM18239-ND	.25	.20	.17	19003-0040
			.187 (4.75)	.160 (4.06)	WM18240-ND	.19	.16	.13	19003-0050
			.250 x .032 (6.35 x 0.81)	.145 (3.68)	WM5929-ND*	.22	.18	.15	19003-0044
		—/25	.187 x .020 (4.75 x 0.51)	.160 (4.06)	WM5927-ND*	.29	.24	.20	19003-0132
			.187 x .032 (4.75 x 0.81)	.160 (4.06)	WM5930-ND*	.32	.26	.21	19003-0135
			Insulkrimp® - Female (Expanded Flare)						
2	12-10 Yellow	23	.250 (6.35)	.275 (6.98)	WM18241-ND	.35	.28	.23	19005-0010

* With 94V-0 Material

Avikrimp® Fully Pre-Insulated Quick Disconnect Flags

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
3	22-18 Red	9/25	.250 x .032(6.35 x 0.81)	.150 (3.81)	WM18242-ND	.47	.38	.32	19006-0001
			.187 x .020 (4.75 x 0.51)	.150 (3.81)	WM18245-ND	.48	.38	.32	19006-0005
	16-14 Blue	9/25	.250 x .032 (6.35 x 0.81)	.170 (4.32)	WM18243-ND	.48	.38	.32	19006-0011
			.187 .020 (4.75 x 0.81)	.170 (4.32)	WM18246-ND	.48	.38	.32	19006-0015
	12-10 Yellow	10/25	.250 x .032 (6.35 x 0.81)	.248 (6.30)	WM18244-ND	.94	.75	.63	19006-0019

Insulkrimp® Fully-Insulated Flag Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
3	22-18 Red	11/25	.250 (6.35)	.175 (4.44)	WM18247-ND	.24	.19	.16	19007-0001
			.187 (4.75)	.175 (4.44)	WM18250-ND	.36	.29	.24	19007-0009
	16-14 Blue	11/25	.250 (6.35)	.200 (5.08)	WM18248-ND	.36	.29	.24	19007-0021
			.187 (4.75)	.200 (5.08)	WM18251-ND	.36	.29	.24	19007-0029
	16-14 Blue	11/25	.250 (6.35)	.200 (5.08)	WM5931-ND*	.31	.25	.21	19007-0073
	12-10 Yellow	10/25	.250 (6.35)	.262 (6.65)	WM18249-ND	.80	.64	.53	19007-0040

* With 94V-0 Material

Piggyback QD's Fully-Insulated Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
4	22-18	10	.250 (6.35)	.060 (1.52)	WM18252-ND	.69	.56	.46	19013-0001
	16-14	10	.250 (6.35)	.145 (3.68)	WM18253-ND	.70	.56	.47	19013-0005
	12-10	19	.250 (6.35)	.150 (3.81)	WM18254-ND	.99	.79	.66	19013-0018

Avikrimp® Nylon Insulated with Vibration Support Quick Disconnects

Fig.	AWG	Crimp Tool #	Tab Size Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
			Female						
5	22-18	18/23	.250 x.032 (6.3 x 0.8)	.115 (2.9)	WM18255-ND	.28	.23	.19	19019-0012
			.187 x .020 (4.7 x 0.5)	.115 (2.9)	WM18257-ND	.22	.18	.15	19019-0006
			.110 x .032 (2.8 x 0.8)	.115 (2.9)	WM18259-ND	.22	.18	.15	19019-0004
			.110 x .020 (2.8 x 0.5)	.115 (2.9)	WM18260-ND	.30	.24	.20	19019-0001
	16-14	18/23	.250 x .032 (6.3 x 0.8)	.138 (3.5)	WM18262-ND	.22	.18	.15	19019-0031
			.187 x .020 (4.7 x 0.5)	.138 (3.5)	WM18258-ND	.22	.18	.15	19019-0027
			.110 x .020 (2.8 x 0.5)	.138 (3.5)	WM18261-ND	.29	.23	.20	19019-0022
	12-10	18/23	.250 x .032 (6.3 x 0.8)	.225 (5.7)	WM18256-ND	.44	.36	.30	19019-0037

Snap Plugs

Fig.	AWG	Crimp Tool #	Diameter Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
			Insulkrimp® (PVC Insulation)						
6	22-18	12/22	.156 (3.96)	.140 (3.6)	WM18263-ND	.24	.19	.16	19034-0005
	16-14		.156 (3.96)	.175 (4.4)	WM18264-ND	.22	.18	.15	19034-0009
			Avikrimp® (Nylon Insulation)						
7	22-18	12/22	.156 (3.96)	.140 (3.6)	WM18267-ND	.37	.30	.25	19036-0003
	16-14		.156 (3.96)	.170 (4.3)	WM18268-ND	.38	.31	.26	19036-0008

Snap Plug Receptacles

Fig.	AWG	Crimp Tool #	Snap Plug Dia. Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
			Insulkrimp® (PVC Insulation)						
8	22-18	20/27	.156 (3.9)	.140 (3.5)	WM18265-ND	.22	.18	.15	19038-0001
	16-14	13/27	.156 (3.9)	.170 (4.3)	WM18266-ND	.23	.18	.15	19038-0007
			Avikrimp® (Nylon Insulation)						
9	22-18	20/27	.156 (3.9)	.125 (3.2)	WM18269-ND	.35	.28	.24	19039-0001
	16-14	13/27	.156 (3.9)	.150 (3.8)	WM18270-ND	.35	.28	.24	19039-0006

Snap Spade Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max. Wire Insul. Dia. Inch (mm)	Max. Width Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
				Insulkrimp® (PVC Insulation)						
10	22-18 Red	12/22	5-6	.145 (3.7)	.260 (6.6)	WM18315-ND	.18	.14	.12	19099-0009
			8	.145 (3.7)	.300 (7.6)	WM18316-ND	.18	.14	.12	19099-0003
			10	.145 (3.7)	.340 (8.6)	WM18317-ND	.18	.14	.12	19099-0015
	16-14 Blue	12/22	5-6	.175 (4.4)	.260 (6.6)	WM18318-ND	.22	.18	.15	19099-0027
			8	.175 (4.4)	.320 (8.1)	WM18319-ND	.23	.19	.16	19099-0032
			10	.175 (4.4)	.340 (8.6)	WM18320-ND	.18	.14	.12	19099-0034
	12-10 Yellow	12/22	5-6	.250 (6.4)	.260 (6.6)	WM18321-ND	.33	.27	.22	19099-0044
			8	.250 (6.4)	.330 (8.4)	WM18322-ND	.29	.23	.20	19099-0038
			10	.250 (6.4)	.340 (8.6)	WM18323-ND	.23	.18	.15	19099-0050
				Avikrimp® (Nylon Insulation)						
10	22-18 Red	12/22	5-6	.140 (3.6)	.260 (6.6)	WM18324-ND	.24	.19	.16	19115-0009
			5-6	.140 (3.6)	.270 (6.8)	WM18325-ND	.30	.24	.20	19115-0001
			8	.140 (3.6)	.300 (7.6)	WM18326-ND	.24	.19	.16	19115-0003
			8	.140 (3.6)	.320 (8.1)	WM18327-ND	.30	.25	.20	19115-0012
			10	.140 (3.6)	.340 (8.6)	WM18328-ND	.31	.25	.21	19115-0014
	16-14 Blue	12/22	5-6	.170 (4.3)	.260 (6.6)	WM18329-ND	.31	.25	.21	19115-0024
			5-6	.170 (4.3)	.270 (6.8)	WM18330-ND	.24	.19	.16	19115-0016
			8	.170 (4.3)	.320 (8.1)	WM18331-ND	.24	.19	.16	19115-0079
			10	.170 (4.3)	.340 (8.6)	WM18332-ND	.26	.21	.18	19115-0031
	12-10 Yellow	12/22	5-6	.225 (5.7)	.260 (6.6)	WM18333-ND	.56	.45	.37	19115-0042
			8	.225 (5.7)	.330 (8.4)	WM18334-ND	.30	.24	.20	19115-0035
			10	.225 (5.7)	.340 (8.6)	WM18335-ND	.32	.25	.21	19115-0048

(Continued)

Fig. 11

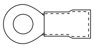

Fig. 12

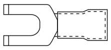

Fig. 13

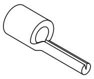

Fig. 14

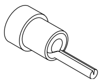

Fig. 15

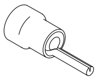

Fig. 16

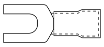

Fig. 17

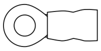

Fig. 18

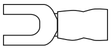

Fig. 19

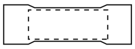

Fig. 20

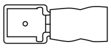

Fig. 21

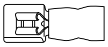

Standard Ring Tongue

Fig.	AWG	Crimp Tool #	Stud Size	Max. Width Inch (mm)	Digi-Key Part No.	Price Each			Molex Part No.
						10	100	500	
Insulkrimp® (PVC Insulation)									
11	22-18	12/22	1-2	.235 (6.0)	WM18271-ND	.16	.13	.11	19070-0005
			3-4	.235 (6.0)	WM18272-ND	.16	.13	.11	19070-0007
			5-6	.264 (6.7)	WM18273-ND	.22	.17	.15	19070-0040
			10	.322 (8.2)	WM18275-ND	.23	.18	.15	19070-0015
			1/4	.477 (12.1)	WM18276-ND	.25	.20	.17	19070-0023
			5/16	.477 (12.1)	WM18277-ND	.25	.20	.17	19070-0026
			3/8	.544 (13.8)	WM18278-ND	.26	.21	.18	19070-0033
	16-14	12/22	3-4	.260 (6.6)	WM18279-ND	.21	.17	.14	19070-0067
			5-6	.260 (6.6)	WM18280-ND	.21	.17	.14	19070-0069
			8	.322 (8.2)	WM18281-ND	.16	.13	.11	19070-0086
			10	.322 (8.2)	WM18282-ND	.22	.18	.15	19070-0090
			1/4	.477 (12.1)	WM18283-ND	.24	.20	.16	19070-0075
			5/16	.477 (12.1)	WM18284-ND	.24	.19	.16	19070-0078
			3/8	.544 (13.8)	WM18285-ND	.28	.23	.19	19070-0059
	12-10	12/22	5-6	.292 (7.4)	WM18286-ND	.20	.16	.14	19070-0143
			8	.292 (7.4)	WM18287-ND	.27	.22	.19	19070-0145
			10	.385 (9.8)	WM18288-ND	.20	.16	.14	19070-0123
			1/4	.540 (13.7)	WM18289-ND	.23	.18	.15	19070-0132
			5/16	.540 (13.7)	WM18290-ND	.23	.18	.15	19070-0136
			3/8	.598 (15.2)	WM18291-ND	.34	.27	.23	19070-0153
			1/2	.760 (19.3)	WM18292-ND	.40	.32	.27	19070-0109
Avikrimp® (Nylon Insulation)									
11	22-18	12/22	1-2	.235 (6.0)	WM18293-ND	.28	.22	.19	19073-0005
			3-4	.235 (6.0)	WM18294-ND	.28	.23	.19	19073-0007
			5-6	.264 (6.7)	WM18295-ND	.29	.23	.19	19073-0038
			8	.322 (8.2)	WM18296-ND	.23	.19	.16	19073-0013
			10	.322 (8.2)	WM18297-ND	.23	.19	.16	19073-0017
			1/4	.477 (12.1)	WM18298-ND	.32	.26	.22	19073-0024
			5/16	.477 (12.1)	WM18299-ND	.32	.25	.21	19073-0027
			3/8	.544 (13.8)	WM18300-ND	.42	.34	.28	19073-0032
	16-14	12/22	3-4	.260 (6.6)	WM18301-ND	.29	.24	.20	19073-0065
			5-6	.260 (6.6)	WM18302-ND	.23	.19	.16	19073-0067
			8	.322 (8.2)	WM18303-ND	.30	.24	.20	19073-0085
			10	.322 (8.2)	WM18304-ND	.23	.19	.16	19073-0087
			1/4	.477 (12.1)	WM18305-ND	.33	.26	.22	19073-0076
			5/16	.477 (12.1)	WM18306-ND	.33	.26	.22	19073-0079
			3/8	.544 (13.8)	WM18307-ND	.35	.29	.24	19073-0059
	12-10	12/22	5-6	.292 (7.4)	WM18308-ND	.41	.33	.28	19073-0216
			8	.292 (7.4)	WM18309-ND	.41	.33	.28	19073-0222
			10	.385 (9.8)	WM18310-ND	.38	.30	.25	19073-0170
			1/4	.540 (13.7)	WM18311-ND	.45	.36	.30	19073-0188
			5/16	.540 (13.7)	WM18312-ND	.31	.25	.21	19073-0200
			3/8	.598 (15.2)	WM18313-ND	.47	.38	.32	19073-0236
			1/2	.760 (19.3)	WM18314-ND	.51	.41	.34	19073-0145

Flanged Spade Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max. Wire Insul. Dia. Inch (mm)	Max. Width Inch (mm)	Digi-Key Part No.	Price Each			Molex Part No.
							10	100	500	
Insulkrimp® (PVC Insulation)										
12	22-18 Red	12/22	5-6	.145 (3.7)	.301 (7.6)	WM18336-ND	.16	.13	.11	19121-0005
			8	.145 (3.7)	.301 (7.6)	WM18337-ND	.22	.18	.15	19121-0007
			10	.145 (3.7)	.301 (7.6)	WM18338-ND	.22	.18	.15	19121-0009
	16-14 Blue	12/22	5-6	.175 (4.4)	.301 (7.6)	WM18339-ND	.21	.17	.14	19121-0026
			8	.175 (4.4)	.301 (7.6)	WM18340-ND	.16	.13	.11	19121-0028
			10	.175 (4.4)	.301 (7.6)	WM18341-ND	.16	.13	.11	19121-0030
	12-10 Yellow	12/22	8	.250 (6.4)	.385 (9.8)	WM18342-ND	.18	.14	.12	19121-0053
			10	.250 (6.4)	.385 (9.8)	WM18343-ND	.18	.14	.12	19121-0056
Avikrimp® (Nylon Insulation)										
12	22-18	12/22	5-6	.140 (3.6)	.301 (7.6)	WM18344-ND	.29	.23	.19	19127-0007
			10	.140 (3.6)	.301 (7.6)	WM18346-ND	.29	.23	.19	19127-0012
	16-14 Blue	17/22	5-6	.170 (4.3)	.301 (7.6)	WM18347-ND	.29	.24	.20	19127-0039
		12/22	8	.170 (4.3)	.301 (7.6)	WM18348-ND	.29	.24	.20	19127-0042
		12/22	10	.170 (4.3)	.301 (7.6)	WM18349-ND	.29	.24	.20	19127-0099
	12-10 Yellow	12/22	8	.225 (5.7)	.385 (9.8)	WM18350-ND	.46	.37	.31	19127-0086
			10	.225 (5.7)	.385 (9.8)	WM18351-ND	.46	.37	.31	19127-0089

Wire Pin Terminals

Fig.	AWG	Crimp Tool #	Pin Dia. Inch (mm)	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each			Molex Part No.
						10	100	500	
Krimptite® (Non-insulated)									
13	22-18	17/24	.08 (2.03)	—	WM18374-ND	.16	.13	.11	19211-0003
	16-14		.08 (2.03)	—	WM18375-ND	.16	.13	.11	19211-0005
	12-10		.12 (3.05)	—	WM18376-ND	.22	.18	.15	19211-0001
Insulkrimp® (PVC Insulation)									
14	22-18 Red	12/22	.08 (2.03)	.145 (3.68)	WM18377-ND	.28	.22	.19	19212-0003
	16-14 Blue		.08 (2.03)	.175 (4.44)	WM18378-ND	.19	.15	.13	19212-0005
	12-10 Yellow		.12 (3.05)	.25 (6.35)	WM18379-ND	.25	.20	.17	19212-0001
Avikrimp® (Nylon Insulation)									
15	22-18 Red	12/22	.08 (2.03)	.14 (3.56)	WM18380-ND	.35	.28	.24	19213-0009
	16-14 Blue		.08 (2.03)	.17 (4.32)	WM18381-ND	.35	.28	.24	19213-0011
	12-10 Yellow		.12 (3.05)	.225 (5.71)	WM18382-ND	.43	.34	.29	19213-0007

Spade Tongue Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Max. Wire Insul. Dia. Inch (mm)	Max. Width Inch (mm)	Digi-Key Part No.	Price Each			Molex Part No.
							10	100	500	
Insulkrimp® (PVC Insulation)										
16	22-18 Red	12/22	5-6	.145 (3.7)	.326 (8.3)	WM18352-ND	.15	.12	.10	19144-0001
			8	.145 (3.7)	.326 (8.3)	WM18353-ND	.16	.13	.11	19144-0003
			10	.145 (3.7)	.326 (8.3)	WM18354-ND	.22	.18	.15	19144-0005
	16-14 Blue	12/22	5-6	.175 (4.4)	.305 (7.7)	WM18355-ND	.17	.14	.12	19144-0018
			8	.175 (4.4)	.305 (7.7)	WM18356-ND	.17	.14	.12	19144-0020
			8	.175 (4.4)	.372 (9.4)	WM18357-ND	.16	.13	.11	19144-0024
			10	.175 (4.4)	.372 (9.4)	WM18358-ND	.23	.18	.15	19144-0026
	12-10 Yellow	12/22	5-6	.250 (6.4)	.385 (9.8)	WM18359-ND	.18	.14	.12	19144-0037
			8	.250 (6.4)	.385 (9.8)	WM18360-ND	.35	.28	.23	19144-0039
			10	.250 (6.4)	.385 (9.8)	WM18361-ND	.18	.14	.12	19144-0042
			1/4	.250 (6.4)	.543 (13.8)	WM18362-ND	.32	.26	.22	19144-0046
Avikrimp® (Nylon Insulation)										
16	22-18 Red	12/22	5-6	.140 (3.6)	.326 (8.3)	WM18363-ND	.30	.24	.20	19198-0070
			8	.140 (3.6)	.326 (8.3)	WM18364-ND	.30	.24	.20	19198-0004
			10	.140 (3.6)	.326 (8.3)	WM18365-ND	.30	.25	.20	19198-0006
	16-14 Blue	12/22	5-6	.170 (4.3)	.305 (7.7)	WM18366-ND	.29	.24	.20	19198-0016
			8	.170 (4.3)	.305 (7.7)	WM18367-ND	.25	.21	.17	19198-0019
			10	.170 (4.3)	.372 (9.4)	WM18369-ND	.31	.25	.21	19198-0025
	12-10 Yellow	12/22	5-6	.225 (5.7)	.385 (9.8)	WM18370-ND	.44	.35	.29	19198-0044
			8	.225 (5.7)	.385 (9.8)	WM18371-ND	.44	.35	.29	19198-0047
			10	.225 (5.7)	.385 (9.8)	WM18372-ND	.43	.35	.29	19198-0050
			1/4	.225 (5.7)	.543 (13.8)	WM18373-ND	.45	.36	.30	19198-0056

Perma-Seal – All Weather, Heat-Sealable Nylon Terminals and Splices

Fig.	AWG	Crimp Tool #	Stud Size	Digi-Key Part No.	Price Each			Molex Part No.
					10	100	500	
Ring								
17	22/18	1/26	6	WM18397-ND	.86	.69	.58	19164-0085
			8	WM18398-ND	.86	.69	.57	19164-0086
			10	WM18399-ND	.86	.69	.58	19164-0003
			1/4	WM18400-ND	.86	.69	.58	19164-0004
			3/8	WM18401-ND	.86	.69	.57	19164-0005
	16/14	1/26	6	WM18402-ND	.90	.72	.60	19164-0032
			8	WM18403-ND	.90	.72	.60	19164-0033
			10	WM18404-ND	.90	.72	.60	19164-0034
			1/4	WM18405-ND	.90	.72	.60	19164-0026
			5/16	WM18406-ND	.90	.72	.60	19164-0027
			3/8	WM18407-ND	.90	.72	.60	19164-0020
	12/10	1/26	6	WM18408-ND	.97	.78	.65	19164-0061
			8	WM18409-ND	.97	.78	.65	19164-0062
			10	WM18410-ND	.97	.78	.65	19164-0065
			1/4	WM18411-ND	.88	.71	.59	19164-0066
			5/16	WM18412-ND	.97	.78	.65	19164-0067
			3/8	WM18413-ND	.97	.78	.65	19164-0068
			1/2	WM18414-ND	.97	.78	.65	19164-0058
Spade								
18	22/18	1/26	6	WM18415-ND	.86	.69	.57	19164-0006
			8	WM18416-ND	.86	.69	.58	19164-0007
			10	WM18417-ND	.86	.69	.57	19164-0008
	16/14	1/26	6	WM18418-ND	.90	.72	.60	19164-0028
			8	WM18419-ND	.90	.72	.60	19164-0029
			10	WM18420-ND	.90	.72	.60	19164-0030
	12/10	1/26	6	WM18421-ND	.97	.78	.65	19164-0069
			8	WM18422-ND	.97	.78	.65	19164-0070
			10	WM18423-ND	.97	.78	.65	19164-0072
			1/4	WM18424-ND	.97	.78	.65	19164-0073
Butt Splices								
19	22-18	1/26	—	WM18425-ND	.89	.72	.60	19164-0013
	16-14		—	WM18426-ND	.94	.75	.63	19164-0044
	12-10		—	WM18427-ND	1.00	.80	.67	19164-0056
Quick Disconnect Couplers - Male								
20	22/18	3/27	.250 (6.35)	WM18428-ND	.89	.71	.60	19164-0015
	16/14	3/27	.250 (6.35)	WM18430-ND	.93	.75	.62	19164-0048
	12/10	2/27	.250 (6.35)	WM18432-ND	1.00	.80	.67	19164-0075
Quick Disconnect Couplers - Female								
21	22/18	3/27	.250 (6.35)	WM18429-ND	.89	.71	.60	19164-0017
	16/14	3/27	.250 (6.35)	WM18431-ND	.93	.75	.62	19164-0050
	12/10	2/27	.250 (6.35)	WM18433-ND	1.00	.80	.67	19164-0076

(Continued)

Fig. 22

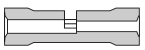

Fig. 23

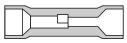

Fig. 24

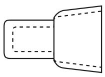

Fig. 25

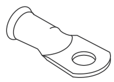

Fig. 26

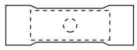

Fig. 27

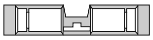

Step Down Butt Connectors

Fig.	AWG	Crimp Tool #	Insulation Color	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
22	16/14 to 22/18	17/24	Non-Insulated	WM18389-ND	1.05	.84	.70	19215-0013
	12/10 to 16/14		Non-Insulated	WM18390-ND	1.13	.90	.75	19215-0023
23	16/14 to 22/18	12/22	Blue with Red Stripe	WM18391-ND	.88	.71	.59	19154-0022
	12/10 to 16/14	8/22	Yellow with Blue Stripe	WM18392-ND	1.17	.94	.78	19154-0035

Nylon-Insulated, Closed-End Connectors

Fig.	AWG	Crimp Tool #	Outside Diameter Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
24	22-14	—	.31 (7.8)	WM18393-ND	.13	.11	.09	19160-0012
	22-12	6/25	.35 (8.9)	WM18394-ND	.13	.11	.09	19160-0009
	16-10	—	.44 (11.2)	WM18395-ND	.18	.15	.12	19160-0002
	8	7/25	.56 (14.2)	WM18396-ND	.34	.27	.23	19160-0024

Heavy Duty Ring Tongue Terminals

Fig.	AWG	Crimp Tool #	Stud Size	Dimensions Length Inch (mm)	Width Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
25	8	16/21	1#10	1.20 (30.48)	.445 (11.30)	WM5932-ND	.90	.75	.54	19221-0223
			1/4	1.20 (30.48)	.445 (11.30)	WM5933-ND	.90	.75	.54	19221-0224
			5/16	1.305 (33.15)	.445 (11.30)	WM5934-ND	.90	.75	.54	19221-0225
			3/8	1.305 (33.15)	.605 (15.37)	WM5935-ND	1.21	1.00	.72	19221-0226
	6	16/21	1/4	1.270 (32.26)	.605 (15.37)	WM5936-ND	1.60	1.32	.94	19221-0227
			5/16	1.410 (35.81)	.605 (15.37)	WM5937-ND	1.70	1.40	1.00	19221-0228
			3/8	1.410 (35.81)	.605 (15.37)	WM5938-ND	1.70	1.40	1.00	19221-0229
	4	16/21	1/4	1.500 (38.10)	.525 (13.33)	WM5939-ND	1.66	1.37	.98	19221-0230
			5/16	1.530 (38.86)	.525 (13.33)	WM5940-ND	1.62	1.34	.96	19221-0231
			3/8	1.530 (38.86)	.525 (13.33)	WM5941-ND	1.62	1.34	.96	19221-0232
	2	16/21	5/16	1.620 (41.15)	.615 (15.62)	WM5942-ND	2.27	1.87	1.34	19221-0233
			3/8	1.620 (41.15)	.615 (15.62)	WM5943-ND	2.27	1.87	1.34	19221-0235
			1/2	1.750 (44.45)	.755 (19.18)	WM5944-ND	3.05	2.51	1.80	19221-0236
	1	16/21	5/16	1.720 (43.69)	.655 (16.64)	WM5945-ND	2.36	1.95	1.40	19221-0237
			3/8	1.720 (43.69)	.655 (16.64)	WM5946-ND	2.36	1.95	1.40	19221-0238
			1/2	1.830 (46.48)	.755 (19.18)	WM5947-ND	3.26	2.69	1.92	19221-0239
	1/0	16/21	5/16	1.830 (46.48)	.725 (18.42)	WM5948-ND	3.12	2.57	1.84	19221-0240
			3/8	1.830 (46.48)	.725 (18.42)	WM5949-ND	3.12	2.57	1.84	19221-0241
			1/2	1.830 (46.48)	.725 (18.42)	WM5950-ND	3.12	2.57	1.84	19221-0242
	2/0	16/21	5/16	2.062 (52.37)	.815 (20.70)	WM5951-ND	3.39	2.80	2.00	19221-0243
			3/8	2.062 (52.37)	.815 (20.70)	WM5952-ND	3.39	2.80	2.00	19221-0244
			1/2	2.062 (52.37)	.815 (20.70)	WM5953-ND	3.39	2.80	2.00	19221-0245
	3/0	16/21	5/16	2.160 (54.86)	.895 (22.73)	WM5954-ND	4.67	3.85	2.75	19221-0246
			3/8	2.160 (54.86)	.895 (22.73)	WM5955-ND	4.24	3.49	2.50	19221-0247
			1/2	2.160 (54.86)	.895 (22.73)	WM5956-ND	4.24	3.49	2.50	19221-0248
	4/0	16/21	3/8	2.350 (59.69)	.985 (25.02)	WM5957-ND	5.27	4.35	3.11	19221-0250
			1/2	2.350 (59.69)	.985 (25.02)	WM5958-ND	5.27	4.35	3.11	19221-0251

Butt Splices

Fig.	AWG	Crimp Tool #	Outside Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
Insulkrimp® (PVC Insulation)								
26	22-18	12/22	.135 (3.4)	WM18383-ND	.14	.11	.10	19154-0004
	16-14		.160 (4.1)	WM18384-ND	.17	.13	.11	19154-0015
	12-10		.220 (5.6)	WM18385-ND	.23	.18	.15	19154-0028

Window Butt Splices

Fig.	AWG	Crimp Tool #	Max. Wire Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each 10	100	500	Molex Part No.
27	22-18 Red	12/22	.140 (3.56)	WM18386-ND	.88	.70	.59	19199-0007
	16-14 Blue		.170 (4.32)	WM18387-ND	.44	.35	.29	19199-0009
	12-10 Yellow	—	.228 (5.79)	WM18388-ND	.60	.48	.40	19199-0011

Crimp Tools

Crimp Tool #	Description	Digi-Key Part No.	Price Each
#1	Sealed Ring, Spade and Butt	WM9975-ND	279.05
#2	Sealed, 10-12 AWG .250” (6.35mm)	WM9939-ND	405.32
#3	Sealed, 14-22 AWG .250” (6.35mm)	WM9976-ND	262.63
#4	10-12 AWG .250” (6.35mm)	WM17466-ND	343.44
#6	Splice 12-22 AWG	WM9977-ND	262.63
#7	Splice 8 AWG	WM9945-ND	340.82
#8	Butt Splice 10-12 AWG	WM17468-ND	300.51
—	Piggyback .250” QD	WM9948-ND	314.82
#9	Flag QD’s .187” (4.75mm) and .250” (6.35mm)	WM18524-ND	300.51
#10	Flag QD’s .250” (6.35mm) 10-12 AWG	WM18589-ND	343.44
#11	Flag QD’s .187” (4.75mm)	WM17467-ND	300.51
#12	Terminals/Splices 10-22 AWG	WM9952-ND	340.82
#14	14-16 AWG .187” and .250” (4.75mm and 6.35mm)	WM9972-ND	381.09
#16	Ringterm 8-4/0 AWG	WM5980-ND	129.74
#17	Wire Pins 10-22 AWG	WM9974-ND	300.51
#18	Quick Connects 10-22 AWG	WM9965-ND	340.82
#19	Snap Plug 14-16 AWG	WM9966-ND	331.57
—	Snap Plug 18-22 AWG	WM9957-ND	309.84
#20	Snap Plug 18-22 AWG	WM18540-ND	343.44
—	Manual Wire Stripper	WM9969-ND	95.16
#22	Terminal/Splices 10-22 AWG	WM9985-ND	36.23
#23	Quick Disconnects 10-22 AWG	WM9986-ND	36.23
#24	Pin Terminals/Splices 10-22 AWG	WM9987-ND	36.23
#25	Closed End Connectors	WM9988-ND	10.15
#26	Sealed Ring, Spade and Butt, 10-22 AWG	WM9989-ND	36.23
#27	Sealed Quick Disconnects	WM9990-ND	36.23

JST

PS Connectors for Tabs

Features:

Secure Locking, Easy Insertion: The combination of terminal and housing provides easy mating onto the male tab. Unmating is also easy, by holding the housing while pulling, the contact lock spring is disengaged by the taper inside the housing. Should you accidentally pull the wire, the locking mechanism ensures that disengagement does not take place.

Stable Contact Performance: The contact is designed with a large contact area to give stable performance, even when high current is applied.

Mis-Insertion Prevention Mechanism and Housing Lance: Inside the housing is a stopper that prevents mis-insertion, which ensures that someone will not mistakenly insert a contact in the housing.

Specifications: Current Rating: 25A AC, DC (250 + AWG 10) **Voltage Rating:** 250V AC, DC **Temperature Range:** -40°C ~ 105°C

Applicable Tab: .187” Tab 0.5mm (.020”)/0.8mm (.031”) thick; .250” Tab 0.8mm (.031”) thick.

Fig. 1

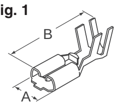

Contact for Fig. 2, 3 & 4

Fig. 2

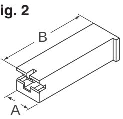

Fig. 3

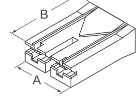

Fig. 4

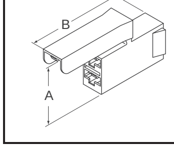

Fig. 5

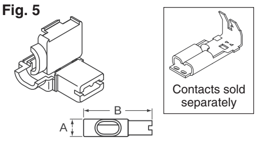

Contacts sold separately

Contacts sold separately

Cir-cuits	Tab Size	AWG	Dimension (Inch) A	B	Digi-Key Part No.	Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Pricing	JST Part No.
Fig. 1 – Uninsulated Terminal Contacts for Fig. 2, 3 and 4 and Crimp Tools											
—	.187”	20-26	.22	.68	455-1106-1-ND	.67	5.96	26.29	455-1106-2-ND	280.00/10,000	SPS-01T-187
Crimp Tool for 20-26 AWG .187” Terminals					455-1107-ND	367.01/1			—	—	WC-730
Crimp Tool for 16-20 AWG .187” Terminals					455-1144-ND	367.01/1			—	—	WC-710
Crimp Tool for 14-18 AWG .187” Terminals					455-1145-ND	388.91/1			—	—	YC-711
Crimp Tool for 18-22 AWG .250” Terminals					455-1116-ND	367.01/1			—	—	WC-780
Fig. 2 – Single Vertical Housings (Contacts Sold Separately Above)											
1	.250”	—	.35	1.09	455-1112-ND	.56	4.66	18.62	—	—	PS-250
Fig. 3 – Dual Vertical Housings (Contacts Sold Separately Above)											
2	.187”	—	.88	.96	455-1109-ND	1.24	10.32	41.28	—	—	PS-187-2A-15
Fig. 4 – Triple Staggered Vertical Housings (Contacts Sold Separately Above)											
3	.187”	—	.72	1.69	455-1110-ND	1.84	15.31	61.25	—	—	PS-187-3V
Fig. 5 – Single Right Angle “One Touch Sleeve” Housings (Contacts Sold Separately Below)											
1	.187”	—	.25	.69	455-1111-ND†	1.25	10.38	41.52	—	—	FPS-187
Contacts for Fig. 5 Housings											
—	.250”	14-18	—	—	455-1148-1-ND	1.36	12.16	53.64	—	—	SFPS-61T-250

† Not CSA certified

Insulated

Fig. 1
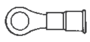

Fig. 2
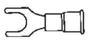

Fig. 3
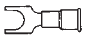

Fig. 4
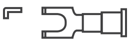

Fig. 5
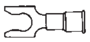

Fig. 6
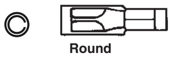

Fig. 7
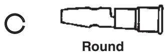

Fig. 8
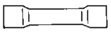

Fig. 9
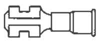

Fig. 10
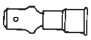

Fig. 11
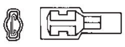

Fig. 12
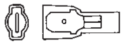

Fig. 13 — Multi-Stud
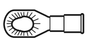

Uninsulated

Fig. 14
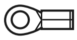

Fig. 15
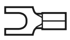

Fig. 16
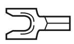

Fig. 17
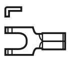

Fig. 18
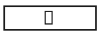

Fig. 19
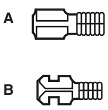

Fig. 20
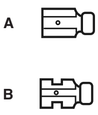

Fig. 21
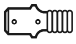

Heat Shrink

Fig. 22
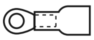

Fig. 23
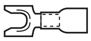

Fig. 24
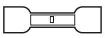

Fig. 25
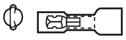

Fig. 26
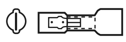

Miscellaneous

Fig. 27 – Female T-Tap Connector
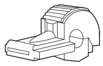

Fig. 28
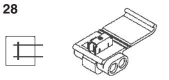

Fig. 29
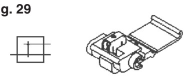

Fig. 30
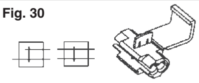

Fig. 31
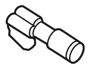

Fig. 32
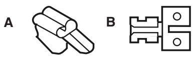

Fig. 33 – Closed End
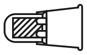

Fig. 34 – Electrical Spring Connector
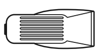

Fig. 35
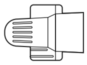

Fig. 36
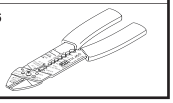

Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each				3M Part No.
					10	50	100	500	
				Insulated					
1	26-24 Yellow	#2	.145 (3.68)	920010-30-ND	.88	.64	.56	.47	MNG24-2RK
		#4		920010-31-ND	.88	.64	.56	.47	MNG24-4RK
		#6		920010-32-ND	.88	.64	.56	.47	MNG24-6RK
		#8		920010-33-ND	.88	.64	.56	.47	MNG24-8RK
		#10		920010-34-ND	.88	.64	.56	.47	MNG24-10RK
11	26-20 Yellow	—	.145 (3.68)	920044-17-ND	.47	.35	.31	.25	MNU20-110DFIK
1	22-18 Red	#4	.145 (3.68)	920010-35-ND	.25	.19	.16	.14	MVU18-4R/SK
		#6		920010-01-ND	.25	.19	.16	.14	MVU18-6R/SK
		#8		920010-02-ND	.25	.19	.16	.14	MVU18-8R/LK
		#10		920010-03-ND	.25	.19	.16	.14	MVU18-10R/LK
		1/4		920010-04-ND	.29	.22	.19	.16	MVU18-14R/SK
1		5/16	.145 (3.68)	920010-36-ND	.37	.27	.24	.20	MVU18-516R/SK
1		3/8		920010-37-ND	.37	.27	.24	.20	MVU18-38RK
3		#4		920020-16-ND	.25	.19	.16	.14	MVU18-4FB/SK
3		#6		920022-01-ND	.25	.19	.16	.14	MVU18-6FB/SK
3		#8		920022-02-ND	.25	.19	.16	.14	MVU18-8FBK
3		#10	.145 (3.68)	920020-17-ND	.25	.19	.16	.14	MVU18-10FBK
4		#6		920022-14-ND	.29	.22	.19	.16	MVU18-6FFBK
4		#8		920022-15-ND	.29	.22	.19	.16	MVU18-8FFBK
4		#10		920022-16-ND	.29	.22	.19	.16	MVU18-10FFBK
5		#4		920024-01-ND	.27	.20	.18	.15	MVU18-4FLK
5		#6	.145 (3.68)	920024-02-ND	.27	.20	.18	.15	MVU18-6FLK
5		#8		920024-03-ND	.27	.20	.18	.15	MVU18-8FLK
5		#10		920024-10-ND	.27	.20	.18	.15	MVU18-10FLK
6		.156"		920048-03-ND	.62	.45	.40	.33	MNG18-156DFIK
7		.156"		920050-01-ND	.27	.20	.18	.14	MVU18-156DMK
8		—	.145 (3.68)	920030-01-ND	.27	.20	.17	.14	MVU18-BCK
9		.187"		920040-01-ND	.27	.20	.17	.14	MVU18-187DFK
9		.250"		920040-02-ND	.27	.20	.17	.14	MVU18-250DFK
10		.187"		920042-01-ND	.26	.19	.17	.14	MVU18-187DMK
10		.250"		920042-02-ND	.25	.18	.16	.13	MVU18-250DMK
11		.187"	.145 (3.68)	920044-01-ND	.39	.28	.25	.21	MNU18-187DFIK
11		.250"		920044-02-ND	.39	.28	.25	.21	MNU18-250DFIK
11		.250"		920044-23-ND	.40	.29	.26	.21	FDI18-250C
12		.187"		920046-01-ND	.43	.32	.28	.23	MNU18-187DMIK
12		.250"		920046-02-ND	.43	.32	.28	.23	MNU18-250DMIK
13		6/8/10		920010-57-ND	.34	.25	.22	.18	MV18-610R
1	16-14 Blue	#4	.170 (4.32)	920010-38-ND	.25	.19	.16	.14	MVU14-4R/SK
		#8		920010-39-ND	.25	.19	.16	.14	MVU14-8RK
		#6		920010-05-ND	.25	.19	.16	.14	MVU14-6R/SK
		#8		920010-06-ND	.25	.19	.16	.14	MVU14-8R/SK
		#10		920010-07-ND	.25	.19	.16	.14	MVU14-10RK
1		1/4	.170 (4.32)	920010-08-ND	.29	.22	.19	.16	MVU14-14R/SK
1		5/16		920010-40-ND	.37	.27	.24	.20	MVU14-516R/SK
1		3/8		920010-41-ND	.37	.27	.24	.20	MVU14-38RK
2		#6		920020-01-ND	.25	.19	.16	.14	MVU14-6FK
2		#8		920020-02-ND	.25	.19	.16	.14	MVU14-8FK
3		#4	.170 (4.32)	920020-18-ND	.25	.19	.16	.14	MVU14-4FB/SK
3		#6		920022-03-ND	.25	.19	.16	.14	MVU14-6FB/SK
3		#8		920022-04-ND	.25	.19	.16	.14	MVU14-8FBK
3		#10		920020-19-ND	.25	.19	.16	.14	MVU14-10FBK
4		#6		920022-17-ND	.29	.22	.19	.16	MVU14-6FFBK
4		#8	.170 (4.32)	920022-18-ND	.29	.22	.19	.16	MVU14-8FFBK
4		#10		920022-19-ND	.29	.22	.19	.16	MVU14-10FFBK
5		#4		920024-11-ND	.26	.19	.17	.14	MVU14-4FLK
5		#6		920024-04-ND	.27	.20	.18	.15	MVU14-6FLK
5		#8		920024-05-ND	.27	.20	.18	.15	MVU14-8FLK
5		#10	.170 (4.32)	920024-06-ND	.27	.20	.18	.15	MVU14-10FLK
6		.156"		920048-02-ND	.43	.31	.28	.23	MNU14-156DFIK
7		.156"		920050-02-ND	.27	.20	.18	.14	MVU14-156DMK
8		—		920030-02-ND	.27	.20	.17	.14	MVU14-BCK
9		.187"		920040-03-ND	.27	.20	.17	.14	MVU14-187DFK
9		.250"	.170 (4.32)	920040-04-ND	.27	.20	.17	.14	MVU14-250DFK
10		.187"		920042-03-ND	.26	.19	.17	.14	MVU14-187DMK
10		.250"		920042-04-ND	.26	.19	.17	.14	MVU14-250DMK
11		.187"		920044-03-ND	.39	.28	.25	.21	MNU14-187DFIK
11		.250"		920044-04-ND	.39	.28	.25	.21	MNU14-250DFIK
11	16-14 Blue	.250"	.170 (4.32)	920044-22-ND	.40	.29	.26	.21	FDI14-250C
12		.187"		920046-03-ND	.43	.32	.28	.23	MNU14-187DMIK
12		.250"		920046-04-ND	.43	.32	.28	.23	MNU14-250DMIK
13		6/8/10		920010-58-ND	.34	.25	.22	.18	MV14-610R
1	12-10 Yellow	#6	.250 (6.35)	920010-43-ND	.31	.23	.20	.16	MVU10-6RK
		#8		920010-09-ND	.31	.23	.20	.16	MVU10-8RK
		#10		920010-10-ND	.31	.23	.20	.16	MVU10-10RK
		1/4		920010-11-ND	.41	.30	.26	.22	MVU10-14R/SK
		5/16		920010-44-ND	.41	.30	.26	.22	MVU10-516R/SK
1		3/8	.250 (6.35)	920010-12-ND	.41	.30	.26	.22	MVU10-38R/SK
2		#6		920020-03-ND	.31	.23	.20	.16	MVU10-6FK
2		#8		920020-04-ND	.31	.23	.20	.16	MVU10-8FK
2		#10		920020-05-ND	.31	.23	.20	.16	MVU10-10FK
4		#6		920022-20-ND	.36	.26	.23	.19	MVU10-6FFBK
4		#8	.250 (6.35)	920022-21-ND	.36	.26	.23	.19	MVU10-8FFBK
4		#10		920022-22-ND	.36	.26	.23	.19	MVU10-10FFBK
5		#6		920024-07-ND	.39	.29	.25	.21	MVU10-6FLK
5		1/4		920024-13-ND	.45	.33	.29	.24	MVU10-14FLK
8		—		920030-03-ND	.33	.24	.21	.18	MVU10BCK
9		.250"	.250 (6.35)	920040-06-ND	.49	.36	.32	.26	MVI10-250DFK
10		.250"		920042-05-ND	.32	.24	.21	.17	MVU10-250DMK
11		.250"		920044-21-ND	.54	.39	.35	.29	MNI10-250DFIK
12		.250"		920046-05-ND	.58	.43	.38	.31	MNU10-250DMIK
13		6/8/10		920010-59-ND	.45	.33	.29	.24	MV10-610R
				Uninsulated					
14	22-18	#4	—	920010-13-ND	.13	.10	.09	.07	MU18-4R/SK
		#6	—	920010-14-ND	.13	.10	.09	.07	MU18-6R/SK
		#8	—	920010-15-ND	.13	.10	.09	.07	MU18-8R/LK
		#10	—	920010-16-ND	.13	.09	.08	.07	MU18-10R/LK
		1/4	—	920010-17-ND	.21	.15	.13	.11	MU18-14R/SK
15		#4	—	920020-06-ND	.13	.10	.09	.07	MU18-4FB/SK
15		#6	—	920020-07-ND	.13	.10	.09	.07	MU18-6FB/SK
15		#8	—	920020-08-ND	.13	.10	.09	.07	MU18-8FBK
15		#10	—	920020-09-ND	.13	.10	.09	.07	MU18-10FBK
16		#4	—	920024-14-ND	.13	.10	.09	.07	MU18-4FLK
16		#6	—	920024-15-ND	.14	.10	.09	.08	MU18-6FLK
16		#8	—	920024-16-ND	.14	.10	.09	.08	MU18-8FLK
16		#10	—	920024-17-ND	.14	.10	.09	.08	MU18-10FLK
17		#6	—	920022-05-ND	.14	.10	.09	.08	MU18-6FFBK
18		—	—	920030-07-ND	.21	.16	.14	.11	M18BCK
14	16-14	#4	—	920010-19-ND	.13	.10	.09	.07	MU14-4R/SK
		#6	—	920010-20-ND	.13	.10	.09	.07	MU14-6R/SK
		#8	—	920010-21-ND	.13	.10	.09	.07	MU14-8R/LK
		#10	—	920010-22-ND	.13	.10	.09	.07	MU14-10RK
		1/4	—	920010-23-ND	.21	.15	.13	.11	MU14-14R/SK
15		#8	—	920020-11-ND	.13	.10	.09	.07	MU14-8FBK
15		#10	—	920020-12-ND	.13	.10	.09	.07	MU14-10FBK
16		#4	—	920024-18-ND	.13	.10	.09	.07	MU14-4FLK
16		#6	—	920024-19-ND	.14	.10	.09	.08	MU14-6FLK
16		#8	—	920024-20-ND	.14	.10	.09	.08	MU14-8FLK
16		#10	—	920024-21-ND	.13	.10	.09	.07	MU14-10FLK
16		1/4	—	920024-22-ND	.22	.16	.15	.12	MU14-14FLK
17		#6	—	920022-08-ND	.13	.10	.09	.07	MU14-6FFBK
17		#8	—	920022-09-ND	.13	.10	.09	.07	MU14-8FFBK
17		#10	—	920022-10-ND	.13	.10	.09	.07	MU14-10FFBK
18		—	—	920030-08-ND	.21	.16	.14	.11	M14BCK
14	12-10	#4	—	920010-24-ND	.20	.15	.13	.11	MU10-4R/SK
		#6	—	920010-25-ND	.20	.15	.13	.11	MU10-6RK
		#8	—	920010-26-ND	.20	.15	.13	.11	MU10-8RK
		#10	—	920010-27-ND	.20	.15	.13	.11	MU10-10RK
		1/4	—	920010-28-ND	.24	.17	.15	.13	MU10-14R/SK
15		#6	—	920020-13-ND	.20	.15	.13	.11	MU10-6FBK
15		#8	—	920020-14-ND	.19	.14	.12	.10	MU10-8FBK
15		#10	—	920020-15-ND	.19	.14	.12	.10	MU10-10FBK
16		#6	—	920024-23-ND	.18	.14	.12	.10	MU10-6FLK

(Continued)

3M Terminals, Tools, Lugs and Connectors *(Cont.)*

Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each				3M Part No.
					10	50	100	500	
16	**12-10**	#8	—	920024-24-ND	.18	.14	.12	.10	MU10-8FLK
16		#10	—	920024-25-ND	.18	.14	.12	.10	MU10-10FLK
16		1/4	—	920024-26-ND	.31	.23	.20	.17	MU10-14FLK
17		#6	—	920022-11-ND	.19	.14	.12	.10	MU10-6FFBK
17		#8	—	920022-12-ND	.19	.14	.12	.10	MU10-8FFBK
17		#10	—	920022-13-ND	.19	.14	.12	.10	MU10-10FFBK
18		—	—	920030-09-ND	.31	.23	.20	.17	M10BCK
19A	**26-20**	.110”	—	920044-06-ND	.14	.11	.09	.08	MU20-110/32DFK
19B	**22-18**	.187”	—	920044-07-ND	.14	.11	.09	.08	MU18-187DFK
19A		.250”	—	920044-08-ND	.14	.11	.09	.08	MU18-250DFK
19A	**16-14**	.110”	—	920044-09-ND	.14	.11	.09	.08	MU14-110DFK
19B		.187”	—	920044-10-ND	.14	.11	.09	.08	MU14-187DFK
19A		.250”	—	920044-11-ND	.14	.11	.09	.08	MU14-250DFK
20A	**22-18**	.187”	—	920044-12-ND	.18	.13	.12	.10	MU18-187DF/FLAGK
20B		.250”	—	920044-13-ND	.18	.13	.12	.10	MU18-250DF/FLAGK
20A	**16-14**	.187”	—	920044-14-ND	.17	.13	.11	.09	MU14-187DF/FLAGK
20B		.250”	—	920044-15-ND	.18	.13	.12	.10	MU14-250DF/FLAGK
21	**22-18**	.187”	—	920042-06-ND	.14	.10	.09	.08	MU18-187DMK
		.250”	—	920042-07-ND	.14	.10	.09	.08	MU18-250DMK
21	**16-14**	.187”	—	920042-08-ND	.13	.10	.09	.07	MU14-187DMK
		.250”	—	920042-09-ND	.14	.10	.09	.08	MU14-250DMK
21	**12-10**	.250”	—	920042-10-ND	.17	.13	.11	.09	MU10-250DMK
Multi-Stack Adapters									
31	**22-18**	.250”	—	920084-01-ND	.44	.32	.29	.24	MVU18-250DMFK
	16-14	.250”	—	920084-02-ND	.44	.32	.29	.24	MVU14-250DMFK
32A	—	.250”	—	920082-01-ND	.35	.26	.23	.19	MA250DMFMK
32B		.250”	—	920082-02-ND	.24	.17	.15	.13	MA250DMMFK

Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each				3M Part No.
					1	10	50	100	
Heat Shrink Insulated									
24	**22-18 Red**	—	.145 (3.68)	920030-10-ND	.61	.45	.40	.33	MH18BCK
22	**16-14 Blue**	#6	.170 (4.32)	920010-48-ND	.56	.41	.36	.30	MH14-6R/LK
		#8		920010-49-ND	.80	.72	.60	.47	MH14-8R/LK
		1/4		920010-51-ND	.88	.79	.65	.51	MH14-14R/SK
		5/16		920010-52-ND	.83	.74	.61	.48	MH14-516R/SK
		3/8		920010-53-ND	.83	.74	.61	.48	MH14-38RK

Fig.	AWG	Stud Size	Insul. Dia. Inch (mm)	Digi-Key Part No.	Price Each				3M Part No.
					1	10	50	100	
23	**16-14 Blue**	#6	.170 (4.32)	920024-30-ND	.56	.41	.36	.30	MH14-6FLK
		#10		920024-32-ND	.56	.41	.36	.30	MH14-10FLK
		1/4		920024-33-ND	.61	.45	.40	.33	MH14-14FLK
24		—	.170 (4.32	920030-11-ND	.61	.45	.40	.33	MH14BCK
26		—		920042-12-ND	.74	.54	.48	.40	MNHU14-250DMIK
22	**12-10 Yellow**	#10	.250 (6.35)	920010-54-ND	.68	.50	.44	.36	MH10-10RK
22		1/4		920010-55-ND	.70	.52	.46	.38	MH10-14RK
22		3/8		920010-56-ND	.70	.52	.46	.38	MH10-38RK
23		#8		920024-34-ND	.71	.52	.46	.38	MH10-8FLK
23		#10		920024-35-ND	.67	.49	.44	.36	MH10-10FLK
23		1/4	.250 (6.35)	920024-36-ND	.71	.52	.46	.38	MH10-14FLK
24		—		920030-12-ND	.79	.58	.51	.42	MH10BCK
25		—		920044-20-ND	.98	.72	.63	.52	MNHU10-250DFIK
26		—		920042-13-ND	.98	.72	.63	.52	MNHU10-250DMIK
27	**22-18**	—	.150 (3.81)	920074-01-ND	.30	.23	.20	.17	951K
	18-14	—		920074-02-ND	.30	.23	.20	.17	952K
	12	—		920074-03-ND	.33	.24	.22	.18	953K
28	**22-16 Red**	—	.120 (3.05)	920074-06-ND	.44	.33	.29	.24	557 (BOXED)
29		—		920074-07-ND	.46	.34	.30	.25	558 (BOXED)
30	**18-14 Blue**	—	.145 (3.68)	920074-08-ND	.28	.21	.19	.15	560 (BOXED)
923000-I-ND	3M Insulated Terminal Kit — 650 assorted terminals (14 sizes), 200 cable ties (100 each, 2 sizes), one wire marker dispenser, one crimping tool, one reusable metal box, one reordering information card **$155.61**								

Fig.	AWG	Description	Digi-Key Part No.	Price Each				3M Part No.
				10	50	100	500	
Scotchlok Connectors								
33	**22-14**	Closed End Electrical Connector	920030-13-ND	.18	.14	.12	.10	MN14CEC/STK
33	**18-10**		920030-14-ND	.26	.19	.17	.14	MN10CEC/STK (Bulk)
34	**14-8**		920090-01-ND	.55	.40	.35	.29	GK (Gray)
34	**18-10**		920090-02-ND	.24	.18	.16	.13	RK (Red)
35	**12-8**	Spring Connector	920090-04-ND	.68	.50	.44	.36	B/G (Box)
	22-12		920090-05-ND	.17	.12	.11	.09	O/B (Box)
	18-8		920090-06-ND	.26	.19	.17	.14	R/Y (Box)
	22-8		920090-07-ND	.24	.18	.16	.13	T/R (Box)
34	**22-12**	Nylon Spring Connector	920074-04-ND	.20	.14	.13	.11	312 (Yellow)
	18-10		920074-05-ND	.25	.19	.17	.14	512 (Red)
Crimp Tools								
—	**22-10**	Ratcheting	TR-482-ND	181.24/1				TR-482
36	**26-6**	Scissor Style	TH-450-ND	41.19/1				TH-450

Terminals

Fig. 1

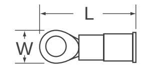

Fig. 2

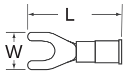

Fig. 3

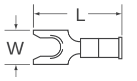

Fig. 4

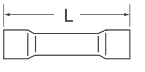

Fig. 5

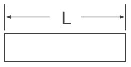

Fig. 6

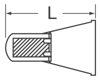

Fig. 7

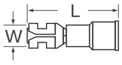

Fig. 8

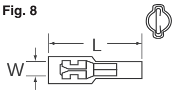

Fig. 9

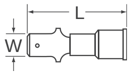

Fig. 10

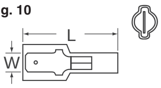

Fig. 11

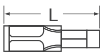

Fig. 12

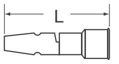

Fig. 13

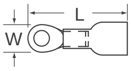

Fig. 14

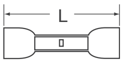

Fig.	AWG	Stud Size	Dim. Inch		Digi-Key Part No.	Pricing				3M Part No.
			Length	Width		10	50	100	500	
Vinyl Insulated Butted Seam Ring Tongue Terminals										
1	**22-18 Red**	#6	0.80	0.25	94725-01-ND	1.12	4.09	7.22	29.69	94725
		#8	0.90	0.33	94727-01-ND	1.12	4.09	7.22	29.69	94727
		#10	0.90	0.33	94717-01-ND	1.12	4.09	7.22	29.69	94717
		1/4	1.08	0.47	94719-01-ND	1.34	4.87	8.60	35.34	94719
		5/16	1.08	0.47	94723-01-ND	1.43	5.20	9.18	37.74	94723
	16-14 Blue	#6	0.90	0.33	94736-01-ND	1.12	4.09	7.22	29.69	94736
		#8	0.90	0.33	94739-01-ND	1.12	4.09	7.22	29.69	94739
		#10	0.90	0.33	94729-01-ND	1.12	4.09	7.22	29.69	94729
		1/4	1.08	0.47	94731-01-ND	1.34	4.87	8.60	35.34	94731
		5/16	1.08	0.47	94735-01-ND	1.50	5.46	9.63	39.59	94735
		3/8	1.13	0.56	94733-01-ND	1.59	5.79	10.22	42.00	94733
	12-10 Yellow	#6	0.98	0.28	94751-01-ND	1.37	5.00	8.82	36.26	94751
		#8	1.03	0.38	94753-01-ND	1.37	5.00	8.82	36.26	94753
		#10	1.03	0.38	94741-01-ND	1.37	5.00	8.82	36.26	94741
		1/4	1.26	0.53	94743-01-ND	1.59	5.79	10.22	42.00	94743
		5/16	1.26	0.53	94749-01-ND	1.67	6.09	10.76	44.22	94749
		3/8	1.29	0.59	94745-01-ND	1.67	6.09	10.76	44.22	94745
		1/2	1.50	0.75	94747-01-ND	2.27	8.26	14.58	59.94	94747
Nylon Insulated with Insulation Grip Ring Tongue Terminals										
1	**22-18 Red**	#6	0.79	0.25	94724-01-ND	1.71	6.23	11.00	45.23	94724
		#8	0.89	0.33	94726-01-ND	1.71	6.23	11.00	45.23	94726
		#10	0.89	0.33	94716-01-ND	1.71	6.23	11.00	45.23	94716
		1/4	1.07	0.47	94718-01-ND	2.01	7.31	12.89	53.00	94718
		5/16	1.07	0.47	94722-01-ND	2.01	7.31	12.89	53.00	94722
		3/8	1.12	0.56	94720-01-ND	2.25	8.19	14.45	59.39	94720
	16-14 Blue	#10	0.89	0.33	94728-01-ND	1.71	6.23	11.00	45.23	94728
		1/4	1.09	0.47	94730-01-ND	2.01	7.31	12.89	53.00	94730
		5/16	1.09	0.47	94734-01-ND	2.01	7.31	12.89	53.00	94734
		3/8	1.14	0.56	94732-01-ND	2.25	8.19	14.45	59.39	94732
	12-10 Yellow	#6	0.98	0.28	94750-01-ND	2.01	7.32	12.92	53.10	94750
		5/16	1.26	0.53	94748-01-ND	2.46	8.95	15.80	64.94	94748
		1/2	1.50	0.75	94746-01-ND	2.90	10.56	18.63	76.59	94746

Fig.	AWG	Stud Size	Dim. Inch		Digi-Key Part No.	Pricing				3M Part No.
			Length	Width		10	50	100	500	
Nylon Insulated Brazed Seam Ring Tongue Terminals										
1	**8 Red**	1/4	1.26	0.47	94754-01-ND	5.52	20.09	35.46	145.78	94754
		1/2	1.72	0.81	94756-01-ND	8.28	37.06	61.04	239.80	94756
	6 Blue	1/4	1.50	0.47	94758-01-ND	5.80	21.11	37.26	153.18	94758
		5/16	1.58	0.63	94761-01-ND	7.87	35.19	57.96	227.70	94761
		3/8	1.58	0.63	94759-01-ND	5.80	21.11	37.26	153.18	94759
		1/2	1.78	0.81	94760-01-ND	6.50	23.66	41.76	171.68	94760
	4 Yellow	1/4	1.74	0.68	94762-01-ND	7.56	27.54	48.60	199.80	94762
		3/8			94763-01-ND	9.50	42.50	70.00	275.00	94763
		1/2			94764-01-ND	10.26	45.90	75.60	297.00	94764
Vinyl Insulated Butted Seam Fork Terminals										
2	**22-18 Red**	#6	0.90	0.34	94769-01-ND	1.09	3.95	6.98	28.68	94769
		#8			94771-01-ND	1.09	3.95	6.98	28.68	94771
		#10			94767-01-ND	1.02	3.72	6.57	27.01	94767
	16-14 Blue	#6	0.90	0.34	94775-01-ND	1.09	3.95	6.98	28.68	94775
		#8			94777-01-ND	1.09	3.95	6.98	28.68	94777
		#10			94773-01-ND	1.09	3.95	6.98	28.68	94773
	12-10 Yellow	#6	1.03	0.38	94781-01-ND	1.26	4.59	8.10	33.30	94781
		#8			94783-01-ND	1.26	4.59	8.10	33.30	94783
Nylon Insulated with Insulation Grip Fork Terminals										
2	**22-18 Red**	#6	0.89	0.34	94768-01-ND	1.57	5.72	10.10	41.53	94768
		#8			94770-01-ND	1.57	5.72	10.10	41.53	94770
		#10			94766-01-ND	1.80	6.54	11.54	47.45	94766
	16-14 Blue	#6	0.91	0.34	94774-01-ND	1.57	5.72	10.10	41.53	94774
		#8			94776-01-ND	1.57	5.72	10.10	41.53	94776
		#10			94772-01-ND	1.57	5.72	10.10	41.53	94772
	12-10 Yellow	#8	1.03	0.38	94782-01-ND	1.88	6.83	12.06	49.58	94782
Vinyl Insulated Butted Seam Locking Fork Terminals										
3	**22-18 Red**	#6	0.88	0.25	94865-01-ND	1.17	4.27	7.54	30.99	94865
		#8		0.30	94867-01-ND	1.17	4.27	7.54	30.99	94867
		#10		0.32	94863-01-ND	1.17	4.27	7.54	30.99	94863

(Continued)

3M Terminals *(Cont.)*

Fig.	AWG	Stud Size	Length	Width	Digi-Key Part No.	Pricing 10	50	100	500	3M Part No.
3	**16-14 Blue**	#6	0.88	0.25	94873-01-ND	1.17	4.27	7.54	30.99	94873
		#8	0.88	0.30	94875-01-ND	1.17	4.27	7.54	30.99	94875
		#10	0.88	0.32	94869-01-ND	1.11	4.03	7.11	29.23	94869
		1/4	1.10	0.43	94871-01-ND	1.34	4.88	8.62	35.43	94871
	12-10 Yellow	#6	1.03	0.28	94881-01-ND	1.61	5.87	10.35	42.55	94881
		#10	1.03	0.32	94877-01-ND	1.71	6.22	10.98	45.14	94877
Nylon Insulated with Insulation Grip Locking Fork Terminals										
3	**22-18 Red**	#6	0.87	0.25	94864-01-ND	1.80	6.54	11.54	47.45	94864
		#8		0.30	94866-01-ND	1.80	6.54	11.54	47.45	94866
		#10		0.32	94862-01-ND	1.69	6.17	10.89	44.77	94862
	16-14 Blue	#6	0.89	0.25	94872-01-ND	1.69	6.17	10.89	44.77	94872
		#8	0.89	0.30	94874-01-ND	1.69	6.17	10.89	44.77	94874
		#10	0.89	0.32	94868-01-ND	1.69	6.17	10.89	44.77	94868
		1/4	1.09	0.43	94870-01-ND	2.01	7.31	12.89	53.00	94870
	12-10 Yellow	1/4	1.24	0.43	94878-01-ND	2.44	8.90	15.71	64.57	94878
Vinyl Insulated Butted Seam Butt Connectors										
4	**22-18 Red**	—	1.02	—	94785-01-ND	1.17	4.27	7.54	30.99	94785
	16-14 Blue	—	1.02	—	94788-01-ND	1.17	4.27	7.54	30.99	94788
	12-10 Yellow	—	1.05	—	94791-01-ND	1.46	5.33	9.41	38.67	94791
Vinyl Insulated Brazed Seam Butt Connectors										
4	**8 Red**	—	1.43	—	94793-01-ND	5.04	18.36	32.40	133.20	94793
Nylon Insulated with Insulation Grip Butt Connectors										
4	**22-18 Red**	—	1.01	—	94784-01-ND	3.38	12.32	21.74	89.36	94784
	16-14 Blue	—		—	94787-01-ND	3.19	11.62	20.50	84.27	94787
Nylon Insulated Seamless Butt Connectors										
5	**22-18 Red**	—	1.02	—	94786-01-ND	1.67	6.07	10.71	44.03	94786
	16-14 Blue	—		—	94789-01-ND	1.67	6.07	10.71	44.03	94789
	12-10 Yellow	—		—	94792-01-ND	2.13	7.75	13.68	56.24	94792
Nylon Insulated Closed End Connectors										
6	**22-14**	—	0.76	—	94813-01-ND	1.22	4.44	7.83	32.19	94813
	18-10	—	0.85	—	94796-01-ND	1.22	4.44	7.83	32.19	94796
Vinyl Insulated Butted Seam Female Disconnects										
7	**22-18 Red**	—	0.78	0.187	94800-01-ND	1.17	4.27	7.54	30.99	94800
		—	0.87	0.250	94804-01-ND	1.17	4.27	7.54	30.99	94804
	16-14 Blue	—	0.78	0.187	94817-01-ND	1.17	4.27	7.54	30.99	94817
		—	0.87	0.250	94821-01-ND	1.17	4.27	7.54	30.99	94821
Nylon Insulated with Insulation Grip Female Disconnects										
7	**22-18 Red**	—	0.77	0.187	94797-01-ND	1.76	6.43	11.34	46.62	94797
		—	0.86	0.250	94801-01-ND	1.76	6.43	11.34	46.62	94801
	16-14 Blue	—	0.77	0.187	94814-01-ND	1.66	6.06	10.69	43.94	94814
		—	0.86	0.250	94818-01-ND	1.76	6.43	11.34	46.62	94818
Fully Nylon Insulated Butted Seam Female Disconnects										
8	**22-18 Red**	—	0.81	0.187	94799-01-ND	1.76	6.43	11.34	46.62	94799
		—	0.91	0.250	94803-01-ND	1.76	6.43	11.34	46.62	94803
	16-14 Blue	—	0.81	0.187	94816-01-ND	1.76	6.43	11.34	46.62	94816
		—	0.91	0.250	94820-01-ND	1.76	6.43	11.34	46.62	94820
	12-10 Yellow	—	0.99	0.250	94832-01-ND	2.17	7.91	13.95	57.35	94832
Vinyl Insulated Butted Seam Male Disconnects										
9	**22-18 Red**	—	0.85	0.187	94808-01-ND	1.17	4.27	7.54	30.99	94808
		—	0.93	0.250	94812-01-ND	1.17	4.27	7.54	30.99	94812
	16-14 Blue	—	0.85	0.187	94825-01-ND	1.11	4.03	7.11	29.23	94825
		—	0.93	0.250	94829-01-ND	1.17	4.27	7.54	30.99	94829
	12-10 Yellow	—	1.05	0.250	94837-01-ND	1.29	4.69	8.28	34.04	94837
Nylon Insulated with Insulation Grip Male Disconnects										
9	**22-18 Red**	—	0.84	0.187	94805-01-ND	1.66	6.06	10.69	43.94	94805
		—	0.92	0.250	94809-01-ND	1.76	6.43	11.34	46.62	94809
	16-14 Blue	—	0.86	0.187	94822-01-ND	1.66	6.06	10.69	43.94	94822
		—	0.94	0.250	94826-01-ND	1.66	6.06	10.69	43.94	94826
	12-10 Yellow	—	1.05	0.250	94834-01-ND	1.81	6.60	11.66	47.92	94834
Fully Nylon Insulated Butted Seam Male Disconnects										
10	**22-18 Red**	—	0.87	0.187	94807-01-ND	1.76	6.43	11.34	46.62	94807
		—	0.98	0.250	94811-01-ND	1.76	6.43	11.34	46.62	94811
	16-14 Blue	—	0.98	0.250	94828-01-ND	1.76	6.43	11.34	46.62	94828
	12-10 Yellow	—	1.05	0.250	94836-01-ND	2.17	7.91	13.95	57.35	94836
Fully Nylon Insulated with Insulation Grip Male Disconnects										
10	**22-18 Red**	—	0.87	0.187	94806-01-ND	2.09	7.61	13.43	55.22	94806
		—	0.95	0.250	94810-01-ND	2.22	8.07	14.24	58.55	94810
	16-14 Blue	—	0.87	0.187	94823-01-ND	2.09	7.61	13.43	55.22	94823
		—	0.95	0.250	94827-01-ND	2.22	8.07	14.24	58.55	94827
Nylon Insulated Butted Seam Bullet Style Female Disconnects										
11	**16-14 Blue**	.156”	1.02	—	94842-01-ND	1.88	6.83	12.06	49.58	94842
		.180”		—	94843-01-ND	1.96	7.15	12.62	51.89	94843
Nylon Insulated with Insulation Grip Bullet Style Female Disconnects										
11	**22-18 Red**	.156”	1.02	—	94838-01-ND	1.88	6.83	12.06	49.58	94838
		.180”		—	94839-01-ND	1.85	6.74	11.90	48.93	94839
Nylon Insulated with insulation Grip Bullet Style Male Disconnects										
12	**22-18 Red**	.156”	0.85	—	94840-01-ND	1.80	6.54	11.54	47.45	94840
		.180”	0.89	—	94841-01-ND	1.81	6.59	11.63	47.82	94841
	16-14 Blue	.156”	0.87	—	94844-01-ND	1.69	6.17	10.89	44.77	94844
		.180”	0.91	—	94845-01-ND	1.81	6.59	11.63	47.82	94845
Heat Shrink Brazed Seam Ring Tongue Terminals										
13	**22-18 Red**	#6	1.0	0.31	94859-01-ND	7.96	35.62	58.66	230.45	94859
		#8			94860-01-ND	7.96	35.62	58.66	230.45	94860
		#10			94858-01-ND	7.96	35.62	58.66	230.45	94858
	16-14 Blue	#6	1.0	0.31	94855-01-ND	7.96	35.62	58.66	230.45	94855
		#8	1.0	0.31	94856-01-ND	7.96	35.62	58.66	230.45	94856
		#10	1.0	0.31	94851-01-ND	7.96	35.62	58.66	230.45	94851
		1/4	1.1	0.47	94852-01-ND	8.66	38.76	63.84	250.80	94852
		5/16	1.1	0.47	94854-01-ND	8.00	35.79	58.94	231.55	94854
		3/8	1.1	0.56	94853-01-ND	8.66	38.76	63.84	250.80	94853
	12-10 Yellow	#8	1.1	0.38	94849-01-ND	7.13	25.96	45.81	188.33	94849
		#10	1.1	0.38	94846-01-ND	9.67	43.27	71.26	279.95	94846
		1/4	1.2	0.59	94847-01-ND	7.39	26.93	47.52	195.36	94847
		3/8	1.2	0.59	94848-01-ND	7.39	26.93	47.52	195.36	94848
Heat Shrink Seamless Butt Connectors										
14	**16-14 Blue**	—	1.3	—	94857-01-ND	5.96	21.73	38.34	157.62	94857
	12-10 Yellow	—	1.5	—	94850-01-ND	7.69	28.00	49.41	203.13	94850

3M Scotchlok™ Discrete Connectors and Tools

3M Insulated
Terminal Kit — 650 assorted terminals (14 sizes), 200 cable ties (100 each, 2 sizes), one wire marker dispenser, one crimping tool, one reusable metal box, one reordering information card.

923000-I-ND **$155.61**

E-9Y-ND

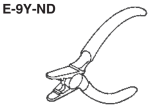

E-9E-ND

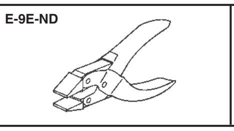

E-9C-ND

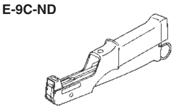

Fig. 1

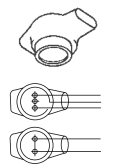

Fig. 2

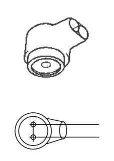

Fig. 3

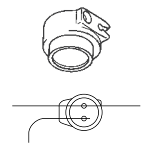

Fig. 4

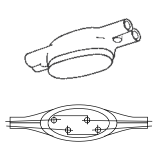

Fig.	Color	Max. Insul. O.D. (mm)	Cable Type: PIC-Unfilled AWG	PIC-Filled AWG	Pulp or Paper AWG	How Packaged	Digi-Key Part No.	Price Each 1	10	100	E-9Y-ND $36.97	E-9E-ND $33.81	E-9C-ND $165.06
1	Red	1.67	19-26	22-26*	19-26	Loose	UR20074-ND	.32	.25	.18	✓ (2 Wire)	✓ (3 Wire)	—
	Grey	1.93	17-20	19-24	19-24	Cartridge	UAL27828-ND	—	.70	.51	—	—	✓
2	Yellow	1.52	22-26	22-26	22-26	Loose	UY14911-ND	.29	.22	.16	✓	✓	✓
3	Green	1.67	19-26	22-26	19-26	Loose	UG20082-ND	.48	.36	.26	✓	✓	—
4	Red	3.18	19-24	19-24	19-24	Loose	U1R20017-ND	3.30	2.87	2.48	—	—	—

* Can be used on 19AWG (.9mm) Foam Insulated Cable.

PIDG Ring Terminals

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts: • Temperature Rating:** 105°C maximum **• AMP Wire:** Solid or Stranded **• Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. **• Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. **• Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength.

PIDG Insulation Restricting Terminals: **Material:** • Insulation: Nylon • Terminal Body and Metallic Sleeve: Copper per ASTM B-152 • Plating: Nickel per QQ-N-290 or Tin per MIL-T-10727. Insulation Restriction Terminals prevent the insulation of thin-wall insulation wire from entering the terminal's wire crimp area during the crimping process.

PIDG Radiation Resistant: **Temp. Rating:** 150°C maximum **Material:** • Insulation: Polyvinylidene Fluoride (PVF$_2$) • Terminal, Splice Body & Metallic Sleeve: Copper per ASTM B-152 • Plating: Tin per MIL-T-10727

Fig. 1

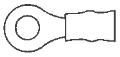

Fig. 2

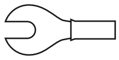

Fig. 3

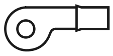

PIDG - Ring

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
					10	100			500	1,000				
26-24 AWG Yellow														
1	4	.203 x .736	.105	A27492-ND	1.00	.88	52189	—	—	—	—	—	—	—
	6	.250 x .792	.105	A27493-ND	.43	.38	53073	—	—	—	—	—	—	—
26-22 AWG Yellow														
1	0	.140 x .525	.082	A27224-ND	1.01	.89	321013	—	—	—	—	—	—	—
	2	.140 x .525	.082	A0879-ND	.28	.25	323912	A0879CT-ND	—	242.30	A0879TR-ND	4,000	193.84/M	2-323912-1
		.140 x .615		A27225-ND	.32	.29	329951	—	—	—	—	—	—	—
	4	.203 x .646	.082	A0880-ND	.29	.25	323914	—	—	—	—	—	—	—
	6	.203 x .646	.082	A0881-ND	.28	.25	323915	—	—	—	—	—	—	—
		.250 x .740		A27226-ND	.29	.25	326875	A27226CT-ND	—	216.25	A27226TR-ND	4,000	173.00/M	2-326875-1
	8	.250 x .740	.082	A0882-ND	.33	.30	323916	A0882CT-ND	—	432.48	A0882TR-ND	4,000	345.98/M	2-323916-1
	10	.250 x .740	.082	A0883-ND	.38	.33	324075	—	—	—	—	—	—	—
24-20 AWG Natural														
1	2	.160 x .589	.100	A27495-ND	.86	.76	329636	—	—	—	—	—	—	—
	6	.281 x .774		A27496-ND	.35	.31	323986	—	—	—	—	—	—	—
	8	.312 x .821		A27497-ND	.35	.31	323989	—	—	—	—	—	—	—
	10	.312 x .821		A27498-ND	.39	.35	323990	—	—	—	—	—	—	—
22-16 AWG Red														
1	2	.182 x .669	.125	A27499-ND	1.01	.89	324158	—	—	—	—	—	—	—
		.182 x .669	.140	A27500-ND	.28	.25	320773	—	—	—	—	—	—	—
		.218 x .672	.125	A0884-ND	.28	.25	328657	—	—	—	—	—	—	—
	4	.182 x .669	.140	A27228-ND	.44	.39	320882	A27228CT-ND	—	313.70	A27228TR-ND	5,000	250.96/M	2-320882-1
		.218 x .672	.125	A27227-ND	.29	.25	320553	A27227CT-ND	—	216.25	A27227TR-ND	5,000	173.00/M	2-320553-2
		.218 x .672	.140	A1087-ND	.29	.25	31880	A1087CT-ND	—	216.25	A1087TR-ND	5,000	173.00/M	2-31880-1
		.250 x .844	.125	A27229-ND	.40	.35	323758	A27229CT-ND	—	525.50	A27229TR-ND	5,000	420.40/M	2-323758-1
		.250 x .844	.140	A27230-ND	.40	.35	330648	—	—	—	—	—	—	—
	6	.218 x .672	.125	A27231-ND	.29	.25	36149	A27231CT-ND	—	216.25	A27231TR-ND	5,000	173.00/M	2-36149-2
		.218 x .672	.140	A27232-ND	.29	.25	36150	A27232CT-ND	—	216.25	A27232TR-ND	5,000	173.00/M	2-36150-1
		.250 x .782	.125	A27233-ND	.23	.20	51863	A27233CT-ND	—	173.10	A27233TR-ND	5,000	138.48/M	51863-1
		.281 x .797	.125	A27234-ND	.22	.20	36151	A27234CT-ND	—	209.58	A27234TR-ND	5,000	167.66/M	2-36151-2
		.281 x .797	.140	A1060-ND*	.22	.20	36152	A1060CT-ND*	—	167.75	A1060TR-ND*	5,000	134.20/M	2-36152-1
		.312 x .844	.125	A27235-ND	.35	.31	323008	A27235CT-ND	—	209.58	A27235TR-ND	5,000	167.66/M	2-323008-1
		.312 x .844	.140	A27236-ND	.28	.25	326878	—	—	—	—	—	—	—
	8	.281 x .797	.125	A27239-ND	.28	.25	320554	A27239CT-ND	—	209.58	A27239TR-ND	5,000	167.66/M	2-320554-1
		.281 x .797	.140	A27238-ND	.28	.25	31886	A27238CT-ND	—	219.20	A27238TR-ND	5,000	175.36/M	2-31886-2
		.312 x .844	.140	A1061-ND	.23	.20	31890	A1061CT-ND	—	173.10	A1061TR-ND	5,000	138.48/M	2-31890-1
		.312 x .844	.125	A27511-ND	.29	.26	31888	—	—	—	—	—	—	—
		.312 x .844	.125	A27237-ND	.23	.20	320551	A27237CT-ND	—	173.10	A27237TR-ND	5,000	138.48/M	1-320551-1
		.344 x .876	.140	A27240-ND	1.25	1.10	32835	—	—	—	—	—	—	—
	10	.281 x .797	.125	A27243-ND	.28	.25	320552	A27243CT-ND	—	209.58	A27243TR-ND	5,000	167.66/M	2-320552-1
		.281 x .797	.140	A27242-ND	.28	.25	31887	A27242CT-ND	—	209.58	A27242TR-ND	5,000	167.66/M	2-31887-1
		.312 x .844	.125	A27241-ND	.23	.20	36153	A27241CT-ND	—	173.10	A27241TR-ND	5,000	138.48/M	2-36153-2
		.312 x .844	.140	A1062-ND	.23	.20	36154	A1062CT-ND*	—	173.10	A1062TR-ND*	5,000	138.48/M	2-36154-2
		.344 x .876	.125	A27244-ND	1.24	1.09	32836	—	—	—	—	—	—	—
		.344 x .876	.140	A27245-ND	.27	.24	32837	—	—	—	—	—	—	—
	1/4	.469 x 1.078	.125	A27246-ND	.33	.30	320571	A27246CT-ND	—	249.43	A27246TR-ND	5,000	199.54/M	2-320571-2
		.469 x 1.078	.140	A0885-ND	.33	.30	31894	A0885CT-ND	—	199.65	A0885TR-ND	5,000	159.72/M	2-31894-2
	5/16	.469 x 1.078	.125	A27247-ND	.33	.30	320572	—	—	—	—	—	—	—
		.469 x 1.078	.140	A0886-ND	.51	.45	31895	A0886CT-ND	—	249.43	A0886TR-ND	5,000	199.54/M	2-31895-1
	3/8	.531 x 1.218	.140	A0887-ND	.76	.67	31897	—	—	—	—	—	—	—
		.531 x 1.218	.125	A27248-ND	.34	.30	320573	—	—	—	—	—	—	—
	1/2	.713 x 1.293	.140	A0888-ND	.93	.82	328975	—	—	—	—	—	—	—
16-14 AWG Blue														
1	4	.250 x .703	.150	A27249-ND	.32	.29	324159	A27249CT-ND	—	209.58	A27249TR-ND	5,000	167.66/M	2-324159-2
		.250 x .703	.170	A1091-ND	.28	.25	328996	A1091CT-ND	—	209.53	A1091TR-ND	5,000	167.62/M	2-328996-1
		.250 x .813	.150	A27502-ND	.82	.73	323676	—	—	—	—	—	—	—
	6	.250 x .703	.150	A27253-ND	.29	.25	320561	A27253CT-ND	—	216.25	A27253TR-ND	5,000	173.00/M	2-320561-2
		.250 x .703	.170	A1070-ND	.22	.20	320619	—	—	—	—	—	—	—
		.250 x .813	.170	A27504-ND	.44	.39	50881	—	—	—	—	—	—	—
		.312 x .813	.170	A27254-ND	.28	.25	326882	A27254CT-ND	—	209.58	A27254TR-ND	5,000	167.66/M	2-326882-1
		.312 x .844	.150	A27250-ND	.29	.25	51864	A27250CT-ND	—	216.25	A27250TR-ND	5,000	173.00/M	51864-3
		.343 x .859	.150	A27251-ND	.28	.25	36157	A27251CT-ND	—	209.58	A27251TR-ND	5,000	167.66/M	2-36157-2
		.343 x .859	.170	A27252-ND	.28	.25	36158	A27252CT-ND	—	209.58	A27252TR-ND	5,000	167.66/M	2-36158-1
	8	.312 x .813	.170	A27257-ND	.42	.37	53941-1	A27257CT-ND	—	416.78	A27257TR-ND	5,000	333.42/M	53941-2
		.312 x .844	.150	A27255-ND	.29	.25	51864-1	A27255CT-ND	—	216.25	A27255TR-ND	5,000	173.00/M	51864-5
		.343 x .859	.150	A27256-ND	.28	.25	320560	A27256CT-ND	—	209.58	A27256TR-ND	5,000	167.66/M	2-320561-1
		.343 x .859	.170	A1071-ND	.22	.20	320565	A1071CT-ND	—	167.75	A1071TR-ND	5,000	134.20/M	2-320565-1
	10	.312 x.844	.150	—	—	—	—	A28118CT-ND*	—	203.74	A28118TR-ND*	5,000	208.96/M	51861-4
		.312 x .813	.170	A27260-ND	.28	.25	53942-1	A27260CT-ND	—	209.58	A27260TR-ND	5,000	167.66/M	53942-2
		.312 x .844	.150	A27258-ND	.29	.25	51864-2	—	—	—	—	—	—	—
		.343 x .859	.150	A27259-ND	.28	.25	320574	A27259CT-ND	—	209.58	A27259TR-ND	5,000	167.66/M	2-320574-2
		.343 x .859	.170	A1072-ND	.22	.20	36160	A1072CT-ND	—	167.75	A1072TR-ND	5,000	134.20/M	2-36160-1
		.343 x .859	.170	A27512-ND*	.32	.28	31903	—	—	—	—	—	—	—
		.469 x 1.078	.170	A27261-ND	.54	.48	324533	—	—	—	—	—	—	—
	1/4	.469 x 1.078	.150	A27262-ND	.33	.30	320563	A27262CT-ND	—	249.43	A27262TR-ND	4,000	199.54/M	2-320563-2
		.469 x 1.078	.170	A0889-ND	.26	.23	321045	A0889CT-ND	—	241.75	A0889TR-ND	4,000	193.40/M	2-321045-1

*Vinyl Insulation † Heavy duty for extra mechanical strength.

(Continued)

PIDG Ring Terminals *(Cont.)*

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
16-14 AWG Blue (cont.)														
1	5/16	.469 x 1.078	.150	A27263-ND	.33	.30	320575	—	—	—	—	—	—	—
			.170	A0890-ND	.32	.29	328998	—	—	—	—	—	—	—
	3/8	.531 x 1.218	.150	A27264-ND	.34	.30	320564	—	—	—	—	—	—	—
			.170	A0891-ND	.38	.33	328999	—	—	—	—	—	—	—
	1/2	.713 x 1.293	.150	A27265-ND	1.07	.94	328976	—	—	—	—	—	—	—
			.170	A0892-ND	1.03	.91	328849	—	—	—	—	—	—	—
16-14 AWG Yellow/Black †														
1	6	.281 x .953	.230	A27267-ND	.48	.42	320631	—	—	—	—	—	—	—
			.250	A27266-ND	.97	.85	35634	—	—	—	—	—	—	—
	8	.343 x 1.046	.230	A09035-ND	.47	.42	320627	A09035CT-ND	215.81	392.38	A09035TR-ND	2,500	313.90/M	1-320627-0
			.250	A27268-ND	.51	.45	35106	A27268CT-ND	275.52	500.95	A27268TR-ND	2,500	400.76/M	2-35106-1
	10	.343 x 1.046	.230	A09036-ND	.59	.52	320630	A09036CT-ND	209.21	380.38	A09036TR-ND	2,500	304.30/M	2-320630-2
			.250	A27269-ND	.53	.47	34805	—	—	—	—	—	—	—
	1/4	.500 x 1.188	.230	A27270-ND	.48	.42	34974	—	—	—	—	—	—	—
		.500 x 1.188	.250	A27506-ND	.67	.59	323682	A27506CT-ND	281.83	512.43	A27506TR-ND	2,500	409.94/M	2-323682-1
		.531 x 1.296	.230	A27271-ND	.36	.32	327743	—	—	—	—	—	—	—
		.531 x 1.296	.250	A09037-ND	.93	.82	34806	—	—	—	—	—	—	—
	5/16	.531 x 1.296	.250	A27507-ND	1.03	.91	34810	—	—	—	—	—	—	—
	3/4	1.25 x 2.219	.250	A27509-ND	2.26	1.99	322724	—	—	—	—	—	—	—
	3/8	.531 x 1.296	.230	A27508-ND	.68	.60	330896	—	—	—	—	—	—	—
	1/2	.750 x 1.594	.250	A09038-ND	2.03	1.79	35316	—	—	—	—	—	—	—
12-10 AWG Yellow														
1	4	.281 x .953	.250	A27272-ND	.58	.51	35148	—	—	—	—	—	—	—
	6	.281 x .953	.230	A27273-ND	.41	.36	320634	—	—	—	—	—	—	—
		.281 x .953	.250	A0893-ND	.36	.32	35149	—	—	—	—	—	—	—
		.312 x 1.052	.230	A27274-ND	.53	.47	326886	—	—	—	—	—	—	—
		.375 x 1.083	.230	A27276-ND	.37	.33	320567	A27276CT-ND	153.85	279.73	A27276TR-ND	2,500	223.78/M	2-320567-2
		.375 x 1.083	.250	A27275-ND	.37	.33	35107	—	—	—	—	—	—	—
	8	.312 x 1.031	.230	A27277-ND	.41	.36	35787	—	—	—	—	—	—	—
		.312 x 1.052	.230	A27278-ND	.54	.47	324915	—	—	—	—	—	—	—
		.375 x 1.083	.230	A27280-ND	.37	.33	320568	A27280CT-ND	153.85	279.73	A27280TR-ND	2,500	223.78/M	2-320568-1
		.375 x 1.083	.250	A1081-ND	.29	.26	35108	—	—	—	—	—	—	—
		.375 x 1.172	.300	A27279-ND*	1.23	1.08	35605	—	—	—	A27279TR-ND*	1,000	679.14	2-35605-2
	10	.312 x 1.052	.230	A27282-ND	.54	.47	324918	—	—	—	—	—	—	—
		.343 x 1.046	.230	A27281-ND	.41	.36	32883	A27281CT-ND	534.38	971.60	A27281TR-ND	2,500	777.28/M	1-32883-0
		.375 x 1.083	.230	A27284-ND	.29	.26	36161	A27284CT-ND	118.77	215.95	A27284TR-ND	2,500	172.76/M	2-36161-2
		.375 x 1.083	.250	A1082-ND	.29	.26	35109	A1082CT-ND	118.77	215.95	A1082TR-ND	2,500	172.76/M	2-35109-1
		.375 x 1.172	.300	A27283-ND*	1.26	1.11	35364	—	—	—	—	—	—	—
	1/4	.500 x 1.188	.230	A27285-ND	.40	.35	35273	A27285CT-ND	325.22	591.30	A27285TR-ND	2,500	473.04/M	2-35273-2
		.500 x 1.277	.300	A27286-ND*	1.39	1.22	323763	—	—	—	—	—	—	—
		.531 x 1.322	.230	A27288-ND	.44	.38	320569	A27288CT-ND	177.14	322.08	A27288TR-ND	2,500	257.66/M	2-320569-3
		.531 x 1.322	.250	A1083-ND	.44	.38	35110	A1083CT-ND	177.14	322.08	A1083TR-ND	2,500	257.66/M	2-35110-1
		.531 x 1.416	.300	A27287-ND*	1.35	1.19	35345	—	—	—	—	—	—	—
	3/8	.593 x 1.414	.250	A1084-ND	.44	.38	35112	—	—	—	—	—	—	—
		.593 x 1.414	.230	A27291-ND	.44	.38	320577	—	—	—	—	—	—	—
		.593 x 1.510	.300	A28077-ND*	1.47	1.29	35478	—	—	—	A28077TR-ND*	750	1168.64	1-35478-0
		.750 x 1.594	.250	A27510-ND	1.29	1.13	35150	—	—	—	—	—	—	—
	1/2	.750 x 1.594	.250	A0894-ND	.67	.59	35151	—	—	—	—	—	—	—
	5/16	.531 x 1.322	.250	A1095-ND	.44	.38	35111	A1095CT-ND	177.14	322.08	A1095TR-ND	2,500	257.66/M	2-35111-1
		.531 x 1.322	.230	A27290-ND	.44	.38	320576	—	—	—	—	—	—	—
		.531 x 1.416	.300	A27289-ND*	1.39	1.22	35346	—	—	—	—	—	—	—

*Vinyl Insulation † Heavy duty for extra mechanical strength.

PIDG Slotted Ring Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 1,000	Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
2	26-22 Yellow	6	.250 x .719	.082	A27448-ND	.32	.28	323011	A27448CT-ND	237.15	A27448TR-ND	4,000	189.72/M	2-323011-2
	22-16 Red	8	.281 x .770	.140	A27449-ND	.71	.63	36954	—	—	—	—	—	—

PIDG Ring Tongue Insulation Restricting Terminals

Fig.	AWG	Stud Size	Dim. – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
1	22 Red/Green	4	.218 x .734	.038 - .110	A27334-ND	.39	.34	52273
		6	.250 x .844		A27335-ND	.39	.34	51863-2
		8	.312 x .906		A27336-ND	.39	.34	1-320551-2
		10	.312 x .906		A27337-ND	.39	.34	2-36153-3
	20 Red/Red	4	.218 x .734	.046 - .110	A27338-ND	.48	.42	52273-1
		6	.218 x .734		A27339-ND	.39	.34	2-36149-4
		6	.250 x .844		A27340-ND	.39	.34	51863-3
		8	.312 x .906		A27341-ND	.39	.34	1-320551-3
		10	.312 x .906		A27342-ND	.39	.34	2-36153-4
	18 Red/White	6	.218 x .734	.056 - .110	A27343-ND	.39	.34	2-36149-5
		6	.250 x .844		A27344-ND	.39	.34	51863-4
		8	.312 x .906		A27345-ND	.39	.34	1-320551-4
		10	.312 x .906		A27346-ND	.39	.34	2-36153-5
	16 Blue/Blue	6	.250 x .765	.063 - .130	A27347-ND	.44	.39	2-320561-3
		6	.312 x .906		A27348-ND	.39	.34	51864-6
		8	.312 x .906		A27349-ND	.44	.39	1-51864-0
		10	.312 x .906		A27350-ND	.48	.42	51864-7
		1/4	.469 x 1.140		A27513-ND	.74	.65	2-320563-3
	14 Blue/Green	6	.312 x .906	.078 - .130	A27351-ND	1.42	1.25	51864-8
		8	.312 x .906		A27352-ND	.48	.42	1-51864-1
		10	.312 x .906		A27353-ND	.39	.34	51864-9
		1/4	.469 x 1.140		A27514-ND	.61	.54	2-320563-4
	12 Yellow/Yellow	6	.375 x 1.148	.095 - .200	A27354-ND	1.02	.90	2-36161-5
		8	.375 x 1.148		A27355-ND	.52	.46	2-320568-2
		10	.375 x 1.148		A27356-ND	.52	.46	2-36161-3
		1/4	.531 x 1.392		A27515-ND	1.34	1.18	2-320569-5
	10 Yellow/Brown	8	.375 x 1.148	.119 - .200	A27357-ND	.95	.83	2-320568-3
		10	.375 x 1.148		A27358-ND	.62	.55	2-36161-4
		1/4	.531 x 1.392		A27516-ND	1.19	1.05	2-320569-6
		5/16	.531 x 1.392		A27517-ND	1.28	1.13	2-320576-3

PIDG Ring Tongue Radiation Resistant

Fig.	AWG	Stud Size	Dimensions - Inch W x L	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
1	22-16 Red	6	.218 x .672	.125	A27292-ND	.45	.40	53406-1
		6	.250 x .782		A27293-ND	.45	.40	53407-1
		8	.312 x .844		A27294-ND	.52	.46	53408-1
		10	.312 x .844		A27295-ND	.52	.46	53409-1
	16-14 Blue	6	.250 x .703	.150	A27296-ND	.53	.47	53415-1
		6	.312 x .844		A27297-ND	.50	.44	53416-1
		8	.312 x .844		A27298-ND	.57	.51	53417-1
		10	.312 x .844		A27299-ND	.58	.51	53418-1
	12-10 Yellow	8	.375 x 1.083	.230	A27300-ND	.86	.76	53424-1
		10	.375 x 1.083		A27301-ND	.81	.71	53425-1

PIDG Offset Ring Tongue Terminals

Fig.	AWG	Stud Size	Dim. – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
3	22-16 Red	6	.375 x .906	.125	A27526-ND	.45	.40	323039
		10			A27527-ND	1.05	.92	324011
	16-14 Blue	6	.375 x .906	.150	A27528-ND	.63	.56	323817
		10			A27529-ND	.95	.84	323818

Tools

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$96.00**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$134.84**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices.	**$37.23**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminal and Splices.	**$34.71**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$83.21**
A27981-ND	Hand Crimp Tool for PIDG 26-22 AWG	**$384.71**
A27982-ND	Hand Crimp Tool for PIDG 16-14 AWG	**$307.77**

tyco
Electronics

AMP

PIDG Spade Terminals

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts:** • **Temperature Rating:** 105°C maximum • **AMP Wire:** Solid or Stranded • **Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. • **Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. • **Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength.

Fig. 1

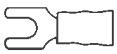

Fig. 2

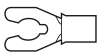

Fig. 3

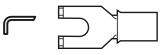

PIDG Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
						10	100			500	1,000				
1	26-22 Yellow	4	.203 x .627	.082	A27415-ND	.30	.26	321035	—	—	—	—	—	—	—
	22-16 Red	2	.182 x .727	.140	A0895-ND	.28	.25	328394	—	—	—	—	—	—	—
		4	.218 x .674		A0896-ND	.34	.30	327717	—	—	—	—	—	—	—
		6	.250 x .846	.140	A1063-ND	.22	.20	34541	A1063CT-ND	—	209.58	A1063TR-ND	5,000	167.66/M	2-34541-1
			.297 x .753	.125	A27416-ND	.28	.25	34080	A27416CT-ND	—	209.58	A27416TR-ND	5,000	167.66/M	2-34080-1
			.297 x .753	.140	A27417-ND	.28	.25	326861	—	—	—	—	—	—	—
		8	.375 x .908	.125	A27418-ND	.38	.34	32050	A27418CT-ND	—	475.30	A27418TR-ND	5,000	380.24/M	2-32050-1
			.375 x .908	.140	A1064-ND	.28	.25	32053	—	—	—	—	—	—	—
		10	.375 x .908	.125	A27419-ND	.63	.55	32051	—	—	—	—	—	—	—
			.375 x .908	.140	A1065-ND	.28	.25	32054	—	—	—	—	—	—	—
	16-14 Blue	6	.244 x .846	.170	A27421-ND	.46	.41	328281	A27421CT-ND	—	543.23	A27421TR-ND	5,000	434.58/M	1-328281-1
			.297 x .753		A1073-ND	.28	.25	35559	A1073CT-ND	—	209.58	A1073TR-ND	5,000	167.66/M	2-35559-1
			.385 x .908		A27420-ND	.28	.25	32058	—	—	—	—	—	—	—
		8	.297 x .753	.170	A1074-ND	.31	.28	321233	A1074CT-ND	—	237.65	A1074TR-ND	5,000	190.12/M	2-321233-1
			.312 x 1.034	.170	A27519-ND	.63	.56	325199	—	—	—	—	—	—	—
			.385 x .908	.150	A27422-ND	.49	.43	32056	—	—	—	—	—	—	—
			.385 x .908	.170	A0897-ND	.28	.25	32059	—	—	—	—	—	—	—
		10	.385 x .908	.150	A27520-ND	.51	.45	32057	—	—	—	—	—	—	—
			.385 x .908	.170	A1075-ND	.31	.28	32060	A1075CT-ND	—	419.13	A1075TR-ND	5,000	335.30/M	2-32060-1
	12-10 Yellow	6	.290 x .954	.230	A27423-ND	.58	.52	322985	—	—	—	—	—	—	—
			.312 x 1.095		A27424-ND	.55	.49	326859	A27424CT-ND	446.39	811.63	A27424TR-ND	2,500	649.30/M	2-326859-1
		8	.406 x 1.095	.230	A0898-ND	.41	.36	32588	—	—	—	—	—	—	—
		10	.406 x 1.095	.230	A1085-ND	.41	.36	32589	—	—	—	—	—	—	—

PIDG Spring Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
						10	100			500	1,000				
Short															
2	26-22 Yellow	4	.203 x .695	.082	A27434-ND	.49	.43	52922	A27434CT-ND	—	537.68	A27434TR-ND	5,000	430.14/M	52922-1
		6	.250 x .679		A27435-ND	.40	.36	52924	A27435CT-ND	—	318.08	A27435TR-ND	4,000	190.85/M	52924-1
		8	.375 x .787		A27436-ND	1.53	1.35	52925	—	—	—	—	—	—	—
	22-16 Red	4	.203 x .799	.125	A0902-ND	.44	.39	52927	—	—	—	—	—	—	—
		5	.250 x .799	.125	A27437-ND	.43	.38	52928	A27437CT-ND	—	237.15	A27437TR-ND	5,000	189.72/M	52928-1
		6	.250 x .799	.125	A1067-ND	.32	.28	52929	A1067CT-ND	—	189.78	A1067TR-ND	5,000	151.82/M	52929-1
		6	.250 x .799	.140	—	—	—	—	A28004CT-ND	—	268.93	A28004TR-ND	5,000	215.14/M	52929-3
		8	.375 x .860	.125	A1089-ND	.32	.28	52930	A1089CT-ND	—	268.93	A1089TR-ND	5,000	215.14/M	52930-1
		10	.406 x .908	.125	A1099-ND	.46	.40	52931	A1099CT-ND	—	237.15	A1099TR-ND	5,000	189.72/M	52931-1
	16-14 Blue	5	.250 x .799	.170	A28166-ND	.45	.40	52934	A28166CT-ND	—	474.13	A28166TR-ND	5,000	379.30/M	52934-1
		6	.250 x .799	.170	A1078-ND	.32	.28	52935	—	—	—	—	—	—	—
		6	.250 x .799	.182	A27438-ND	.50	.45	52935-2	—	—	—	—	—	—	—
		8	.375 x .860	.170	A1093-ND	.36	.32	52936	A1093CT-ND	—	242.03	A1093TR-ND	5,000	193.62/M	52936-1
		8	.375 x.860	.182	A28167-ND	.89	.79	52936-2	A28167CT-ND	—	483.90	A28167TR-ND	5,000	387.12/M	52936-3
		10	.406 x .908	.170	A1094-ND	.36	.32	52937	—	—	—	—	—	—	—
		10	.406 x .908	.182	A28168-ND	1.15	1.01	52937-2	—	—	—	—	—	—	—
	12-10 Yellow	6	.250 x .959	.250	A1096-ND	.41	.36	52941	A1096CT-ND	167.67	304.85	A1096TR-ND	2,500	243.88/M	52941-1
		8	.375 x 1.052		A1097-ND	.47	.41	52942	A1097CT-ND	167.67	304.85	A1097TR-ND	2,500	243.88/M	52942-1
		10	.406 x 1.100		A1098-ND	.47	.41	52943	—	—	—	—	—	—	—
		1/4	.625 x 1.225		A27439-ND	1.87	1.65	52945	—	—	—	—	—	—	—
Long															
2	22-16 Red	6	.250 x .933	.125	A09040-ND	.58	.51	52409	—	—	—	—	—	—	—
		6	.250 x .933	.140	A28156-ND	.93	.82	52409-2	—	—	—	—	—	—	—
		8	.281 x .979	.125	A09041-ND	.51	.45	52410	A09041CT-ND	—	237.15	A09041TR-ND	5,000	189.72/M	52410-1
		10	.343 x 1.005	.125	A09042-ND	1.15	1.01	52411	—	—	—	—	—	—	—
	16-14 Blue	6	.250 x .933	.150	A09043-ND	.36	.32	52420	A09043CT-ND	—	591.08	A09043TR-ND	5,000	472.86/M	52420-2
		6	.250 x .933	.170	A27446-ND	1.11	.98	52420-1	A27446CT-ND	—	268.93	A27446TR-ND	5,000	215.14/M	52420-3
		8	.281 x .979	.150	A09044-ND	.61	.54	52421	—	—	—	—	—	—	—
		8	.281 x .979	.170	A27447-ND	.36	.32	52421-1	—	—	—	—	—	—	—
		10	.343 x 1.005	.170	A09045-ND	.59	.52	52422-1	—	—	—	—	—	—	—
	12-10 Yellow	6	.312 x 1.131	.250	A27521-ND	.73	.64	52430-1	—	—	—	—	—	—	—
		8	.375 x 1.174		A27522-ND	.75	.66	52431-1	—	—	—	—	—	—	—
		10	.375 x 1.219		A27523-ND	.87	.76	52432-1	A27523CT-ND	439.75	799.55	A27523TR-ND	2,500	639.64/M	52432-3
		1/4	.437 x 1.289		A27524-ND	.81	.71	52433-1	—	—	—	—	—	—	—

PIDG Flanged Spade Tongue

Fig.	AWG	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Reel Size	Tape & Reel Pricing	AMP Part No.
						10	100			500	1,000				
3	26-22 Yellow	2	.182 x .649	.082	A27426-ND	.85	.75	324597	—	—	—	—	—	—	—
		4	.196 x .649		A27427-ND	2.33	2.05	52369	—	—	—	—	—	—	—
		6	.250 x .649		A27428-ND	.74	.65	51874	—	—	—	—	—	—	—
	22-16 Red	2	.182 x .727	.125	A27429-ND	1.31	1.16	2-324608-2	—	—	—	—	—	—	—
		2	.182 x .727	.140	A0899-ND	.36	.32	324608	—	—	—	—	—	—	—
		6	.250 x .737	.125	A27431-ND	.31	.27	322777	A27431CT-ND	—	228.73	A27431TR-ND	5,000	182.98/M	2-322777-1
		6	.296 x .737	.125	A27430-ND	.31	.27	32561	A27430CT-ND	—	228.73	A27430TR-ND	5,000	182.98/M	2-32561-1
		6	.296 x .737	.140	A1066-ND	.30	.27	32562	A1066CT-ND	—	228.73	A1066TR-ND	5,000	182.98/M	2-32562-1
		8	.416 x .830	.140	A1088-ND	1.04	.91	32498	A1088CT-ND	—	593.45	A1088TR-ND	5,000	474.76/M	2-32498-1
	16-14 Blue	6	.294 x .737	.170	A1076-ND	.31	.27	320861	A1076CT-ND	—	228.73	A1076TR-ND	5,000	182.98/M	2-320861-1
		8	.294 x .737		A1077-ND	.31	.27	320862	A1077CT-ND	—	259.38	A1077TR-ND	5,000	207.50/M	2-320862-1
		8	.416 x .830		A27518-ND	1.15	1.02	33156	—	—	—	—	—	—	—
		10	.294 x .737		A1092-ND	.47	.42	320863	A1092CT-ND	—	259.38	A1092TR-ND	5,000	207.50/M	2-320863-2
	12-10 Yellow	6	.296 x 1.017	.250	A0900-ND	.79	.70	325150	—	—	—	—	—	—	—
		6	.328 x 1.017	.230	A27432-ND	.90	.79	324587	—	—	—	—	—	—	—
		8	.416 x 1.017	.230	A09039-ND	.40	.35	32510	A09039CT-ND	221.98	403.60	A09039TR-ND	2,500	322.88/M	2-32510-1
		10	.416 x 1.017	.250	A0901-ND	1.19	1.05	324015	A0901CT-ND	233.63	424.78	A0901TR-ND	2,500	339.82/M	2-324015-1

Tools

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$96.00**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$134.84**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices.	**$37.23**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminals and Splices.	**$34.71**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$83.21**

PIDG Knife Disconnect & Butt Splices

PIDG (Pre-Insulated Diamond Grip) Terminals: Meet or exceed the requirements of MIL-T-7928, Type II, Class 1 and 2. **Product Facts:** • **Temperature Rating:** 105°C maximum • **AMP Wire:** Solid or Stranded • **Terminal Material:** The basic terminal is conducted of fine grade high conductivity copper per ASTM B-152 and tin-plated per MIL-T-10727. Basic material for Spring Spade Tongue Terminals is phosphor bronze per ASTM B-139 and tin-plated per MIL-T-10727. AMP's special plating process creates durable corrosion resistance to salt spray and most chemical fumes. • **Copper Sleeve:** The specially designed copper sleeve, fitted over the terminal barrel, provides circumferential insulation support to the wire and allows the wire to be bent in any direction, without fraying the wire's insulation or breaking the conductor. • **Nylon Insulation (unless otherwise noted):** Nylon sleeve assures high dielectric strength.

PIDG - Spare Wire Caps: **Material:** Copper Tin Plated, Insulation: Nylon

PIDG - Butt Splice Step Down Adapter Inserts: **Material:** • Adapter Body: Copper per ASTM B-152 • Plating: Zinc/DyeChromate

Fig. 1

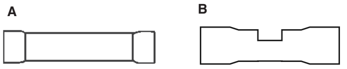

Fig. 2

Fig. 3

Fig. 4

PIDG Butt Splices

Fig.	AWG Color	Dim. - Inch Length	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	Amp Part No.	Digi-Key Part No.	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Reel Size	Tape & Reel Pricing	Amp Part No.
1A	26-22 Yellow	—	.082	A0913-ND	.71	.62	2-323994-2	—	—	—	—	—	—	—
	22-16 Red‡	1.265	.125	A1069-ND	.81	.71	320559	A1069CT-ND	306.12	556.58	A1069TR-ND	2,500	445.26/M	2-320559-4
	16-14 Blue	1.265	.150	A1080-ND	.81	.71	320562	A1080CT-ND	407.80	741.45	A1080TR-ND	2,500	593.16/M	2-320562-3
	12-10 Yellow	1.656	.220	A1086-ND	1.36	1.20	320570	—	—	—	—	—	—	—
1B	26-22 Yellow†	.890	.082	A27450-ND	.69	.61	323994	—	—	—	—	—	—	—
	24-20 Natural	1.035	.100	A27451-ND	.63	.56	323975	—	—	—	—	—	—	—
Step Down Type (with adapter insert)														
1B	16-14 to 22-18 Blue	1.265	.150/.115	A27452-ND*	1.53	1.35	327583	A27452CT-ND*	753.28	1369.60	A27452TR-ND*	2,500	1095.68/M	2-327583-1
	12-10 to 16-14 Yellow	1.656	.220/.170	A27453-ND	2.36	2.08	327638	—	—	—	—	—	—	—
	12-10 to 22-16 Yellow	1.656	.220/.140	A27454-ND	2.47	2.18	327639	—	—	—	—	—	—	—

* Includes adapter insert † 26-22 splices are 26-24 range in accordance with MIL-T-7928 ‡ 22-16 splices are 22-18 range in accordance with MIL-T-7928

PIDG - Spare Wire Caps

Fig.	AWG	Insulation Diameter Inch	Cap Insulation Color	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Unstripped Wire							
3	—	.048 - .075	Transparent	A27478-ND	.32	.29	324484
		.080 - .115	Red	A27479-ND	.35	.31	324485
		.120 - .145	Blue	A27480-ND	.41	.36	324486
Stripped Wire							
3	22-18	.124	Red	A27481-ND	.38	.33	328307
	16-14	.149	Blue	A27482-ND	.48	.42	328308
	12-10	.210	Yellow	A27483-ND	.53	.47	328309

PIDG - Butt Splice Step Down Adapter Inserts

Fig.	AWG	Use With Butt Splices	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
2	22-18 Red	A1080-ND	A27458-ND	.25	.22	327635
	22-18 Red	A1086-ND	A27459-ND	.69	.61	327636
	16-14 Blue	A1086-ND	A27460-ND	.45	.40	327637

PIDG Knife Disconnect Splices

Fig.	AWG	Dim. - Inch Length	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
4	22-16 Red	.878	.125 .140	A27473-ND A1068-ND	.61 .55	.53 .49	320555 32446
	16-14 Blue	.878	.150 .170	A27474-ND A1079-ND	.61 .55	.53 .49	320566 32448
	12-10 Yellow	1.260	.250	A09046-ND	2.61	2.30	35762

Tools

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$96.00**
A09093-ND	Sealed Splice Connector Kit (includes 10 [12-10 AWG] splice, 15 [22-18 AWG] splice, 25 [16-14 AWG] splice, molded case and crimping tool)	**$340.26**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$134.84**
A27484-ND	Long Handle Tool for PIDG Spare Wire Caps (22-18 AWG)	**$307.77**
A27485-ND	Heavy Head Tool for PIDG Spare Wire Caps (12-10 AWG)	**$478.50**
A27486-ND	T-Head Tool for PIDG Spare Wire Caps (22-18 and 16-14 AWG)	**$820.40**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices.	**$37.23**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminals and Splices	**$34.71**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$83.21**

ELECTRO-TAP Connectors and Closed End Splices

ELECTRO-TAP Cable Connector/Splice

• **Housing Material:** Nylon • **Contact Material:** Brass • **Contact Plating:** Tin

Fig.	AWG	Insul. Dia. Inch	Dimension – Inch L	W	H	Color	Digi-Key Part No.	Price Each 1	Price Each 10	AMP Part No.
1	22-18 14-18	.160	.687	.484	.444	Red Blue	A1050-ND A1051-ND	.64 .64	.51 .51	53440-2 53440-1

Fig. 1

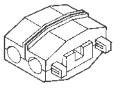

Fig. 2

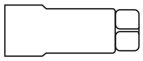

Fig. 3

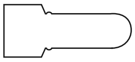

Closed End Splices

• For single and multiple wire applications • Nylon or vinyl or PVF² insulated • Temperature Ratings of 90°C, 105°C, 150°C • 300V, 600V or 1000V rated • Crescent crimp configuration • Covers wire ranges from 22 to 6 AWG (0.3 to 6.0 mm²); 509 to 42, 700 CMA • Copper or steel splice material • Plated or unplated • Solid or stranded copper wire • UL and CSA approved

Fig.	AWG	Insul. Color	Mat'l.	Open. Dia. Inch	Length Inch	Splice Mark*	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Reel Size	Tape & Reel Pricing	Amp Part No.
Vinyl BOMB-TAIL Splices																	
2	22-16	Blue	Copper	.173	.750	VS	A09052-ND	.29	.26	34306	—	—	—	—	—	—	—
		Blue	Copper	.215	.800	VS	A27567-ND	.29	.26	34864	—	—	—	—	—	—	—
		Trans.	Steel	.265	1.000	ECV	A27476-ND	.17	.15	328890	—	—	—	—	—	—	—
		Trans.	Steel	.265	.825	ECV	A09053-ND	.13	.12	330021	—	—	—	—	—	—	—
	22-14	Red	Copper	.156	.729	VS	A09054-ND	.30	.26	34304	—	—	—	—	—	—	—
		Purple		.187	.740	VS	A09055-ND	.12	.11	36964	A09055CT-ND	72.26	131.38	A09055TR-ND	2,500	78.83/M	2-36964-2
		Purple		.235	.775	VS	A27475-ND	.15	.13	2-328375-3	—	—	—	—	—	—	—
		Purple		.235	.900	ECV	A27568-ND	.18	.16	55843-1	—	—	—	—	—	—	—
	22-12	Trans.	Copper	.360	1.500	ECV	A09056-ND	.17	.15	53234-1	—	—	—	—	—	—	—
					1.125		A27571-ND	.16	.14	329251	—	—	—	—	—	—	—
	22-10	Yellow	Copper	.235	.975	VS	A09059-ND	.33	.29	34308	—	—	—	—	—	—	—
		Yellow		.300	1.010	VS	A09060-ND	1.20	1.05	34865	—	—	—	—	—	—	—
		Purple		.312	1.010	VS	A09057-ND	.16	.14	36965	A09057CT-ND	78.06	141.93	A09057TR-ND	1,500	85.16/M	1-36965-1
	18-8	Green	Copper	.500	1.575	ECV	A09061-ND	.49	.43	320788	—	—	—	—	—	—	—
Nylon Molded Splices																	
2	22-14	Trans.	Copper	.250	.680	ECN	A09062-ND	.19	.16	35115	A09062CT-ND	83.64	152.08	A09062TR-ND	2,500	121.66/M	1-35115-0
3	22-10	Trans.	Copper	.375	.775	ECN	A09063-ND	.18	.16	35653	A09063CT-ND	92.02	167.30	A09063TR-ND	1,500	133.84/M	2-35653-1
					.970	EC	A09064-ND	.21	.19	53915-1	A09064CT-ND	138.90	252.55	A09064TR-ND	1,500	151.54/M	53915-2
					.720	EC	A27477-ND	.15	.14	328730	A27477CT-ND	78.38	142.50	A27477TR-ND	1,500	85.50/M	2-328730-1

* **VS** = 300V, 90°C **ECV** = 600V maximum Building Wiring, 1000V maximum Fixtures and Signs, 105°C UL, 90°C CSA **ECN** = 300V, 105°C **EC** = 600V maximum Building Wiring, 1000V maximum Fixtures and Signs, 105°C

tyco Electronics AMP

Plasti-Grip™ Terminals and Splices

Temperature Rating: 90°C maximum **Material:** • Insulation: Vinyl • Terminal Body: Copper per ASTM B-152 • Plating: Tin per MIL-T-10727 (spring spade terminals are phosphor bronze per ASTM B-139 or brass per ASTM B-36 and tin-plated per MIL-T-10727) **Voltage:** 600V maximum (1000V Fixture or Sign).

Recognized under the component program of Underwriters Laboratories Incorporated File No. E13288.

Fig. 1

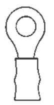

Fig. 2

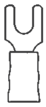

Fig. 3

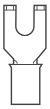

Fig. 4

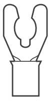

Fig. 5

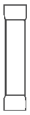

Fig. 6

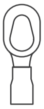

Fig. 7

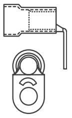

Fig. 8

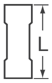

Fig. 9

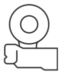

Ring Tongue Terminals

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	AMP Part No.
22-16 AWG Red														
1	2	.218 x .684	.140	A0954-ND	.26	.23	34140	—	—	—	—	—	—	—
	4	.218 x .684	.125	A27302-ND	.26	.23	32944	—	—	—	—	—	—	—
	4	.218 x .684	.140	A0955-ND	.26	.23	34141	A0955CT-ND	—	187.30	A0955TR-ND	5,000	149.84/M	2-34141-1
	4	.281 x .809	.140	A28199-ND	.34	.30	34143	—	—	—	—	—	—	—
	6	.218 x .684	.125	A27303-ND	.26	.23	32945	A27303CT-ND	—	194.78	A27303TR-ND	5,000	155.82/M	2-32945-1
	6	.218 x .684	.140	A09016-ND[1]	.26	.23	34142	—	—	—	—	—	—	—
	6	.281 x .809	.125	A27304-ND	.26	.23	32947	A27304CT-ND	—	187.30	A27304TR-ND	5,000	149.84/M	2-32947-1
	6	.281 x .809	.140	A0956-ND[2]	.26	.23	34144	A0956CT-ND	—	158.35	A0956TR-ND	5,000	126.68/M	2-34144-1
	6	.312 x .856	.125	A27305-ND	.26	.23	32950	A27305CT-ND	—	194.78	A27305TR-ND	5,000	155.82/M	2-32950-1
	6	.312 x .856	.140	A27306-ND	.26	.23	34147	A27306CT-ND	—	187.30	A27306TR-ND	5,000	149.84/M	2-34147-1
	8	.281 x .809	.125	A27308-ND	.26	.23	32948	A27308CT-ND	—	356.23	A27308TR-ND	5,000	284.98/M	2-32948-1
	8	.281 x .809	.140	A09017-ND[1]	.17	.15	34145	A09017CT-ND	—	187.30	A09017TR-ND	5,000	149.84/M	2-34145-1
	8	.312 x .856	.125	A27307-ND	.26	.23	32951	A27307CT-ND	—	194.78	A27307TR-ND	5,000	155.82/M	2-32951-1
	8	.312 x .856	.140	A0957-ND[2]	.17	.15	34148	A0957CT-ND	—	187.30	A0957TR-ND	5,000	149.84/M	2-34148-1
	10	.281 x .809	.125	A28192-ND	.26	.23	32949	A28192CT-ND	—	333.88	A28192TR-ND	5,000	267.10/M	2-32949-1
	10	.281 x .809	.140	A09018-ND[1]	.26	.23	34146	—	—	—	—	—	—	—
	10	.312 x .856	.125	A09019-ND	.26	.23	32952	A09019CT-ND	—	187.30	A09019TR-ND	5,000	149.84/M	2-32952-1
	10	.312 x .856	.140	A0958-ND[2]	.25	.22	34149	A0958CT-ND	—	158.35	A0958TR-ND	5,000	126.68/M	2-34149-1
	1/4	.469 x 1.090	.125	A27309-ND	.34	.30	32953	A27309CT-ND	—	448.25	A27309TR-ND	5,000	358.60/M	2-32953-1
	1/4	.469 x 1.090	.140	A0959-ND	.30	.27	34150	A0959CT-ND	—	215.55	A0959TR-ND	5,000	172.44/M	2-34150-1
	5/16	.469 x 1.090	.140	A0960-ND	.30	.27	34151	A0960CT-ND	—	215.55	A0960TR-ND	5,000	172.44/M	2-34151-1
	3/8	.531 x 1.230	.140	A0961-ND	.31	.27	34152	—	—	—	—	—	—	—
16-14 AWG Blue														
1	4	.250 x .715	.193	A0962-ND	.34	.30	34157	—	—	—	—	—	—	—
	6	.250 x .715	.193	A09020-ND[1]	.26	.23	34158	—	—	—	—	—	—	—
	6	.343 x .871	.193	A0963-ND[2]	.26	.23	34159	A0963CT-ND	—	194.78	A0963TR-ND	5,000	155.82/M	2-34159-1
	8	.312 x .825	.193	A27311-ND	.26	.23	328527	—	—	—	—	—	—	—
	8	.343 x .871	.145	A27310-ND	.26	.23	32959	A27310CT-ND	—	382.80	A27310TR-ND	5,000	306.24/M	2-32959-1
	8	.343 x .871	.193	A0964-ND	.17	.15	34160	A0964CT-ND	—	187.30	A0964TR-ND	5,000	149.84/M	2-34160-1
	10	.343 x .871	.145	A09021-ND	.26	.23	32960	A09021CT-ND	—	187.30	A09021TR-ND	5,000	149.84/M	2-32960-1
	10	.343 x .871	.193	A0965-ND	.25	.22	34161	A0965CT-ND	—	158.35	A0965TR-ND	5,000	126.68/M	2-34161-1
	1/4	.469 x 1.090	.145	A27312-ND	.45	.40	32961	—	—	—	—	—	—	—
	1/4	.469 x 1.090	.193	A0966-ND	.20	.17	34162	—	—	—	—	—	—	—
	5/16	.469 x 1.090	.193	A0967-ND	.30	.27	34163	—	—	—	—	—	—	—
	3/8	.531 x 1.248	.193	A0968-ND	.34	.30	34164	—	—	—	—	—	—	—
16-14HD AWG Yellow/Black														
1	10	.343 x 1.046	.250	A28193-ND	.48	.43	321518	A28193CT-ND	188.32	342.40	A28193TR-ND	2,500	273.92/M	2-321518-1
	1/4	.500 x 1.188	.250	A32017-ND	.56	.50	35349	—	—	—	—	—	—	—
	1/4	.531 x 1.296	.200	A27555-ND	.51	.45	34824	—	—	—	—	—	—	—
12-10 AWG Black														
1	1/4	.500 x 1.247	.300	A32018-ND	.47	.42	35492	—	—	—	—	—	—	—
12-10 AWG Yellow														
1	6	.281 x .953	.250	A27313-ND	.34	.30	34852	—	—	—	—	—	—	—
	6	.375 x 1.098	.230	A28194-ND	.34	.30	34168	A28194CT-ND	140.86	256.10	A28194TR-ND	2,500	204.88/M	2-34168-1
	8	.375 x 1.098	.250	A0969-ND	.34	.30	34853	A0969CT-ND	140.86	256.10	A0969TR-ND	2,500	204.88/M	2-34853-1
	10	.375 x 1.098	.250	A0970-ND[2]	.33	.29	34854	A0970CT-ND	89.62	162.95	A0970TR-ND	2,500	130.36/M	2-34854-1
	1/4	.400 x 1.373	.300	A28195-ND	.38	.34	55678-1	A28195CT-ND	247.40	449.83	A28195TR-ND	1,500	359.86/M	55678-2
	1/4	.531 x 1.327	.230	—	—	—	—	A27315CT-ND	127.15	231.18	—		—	2-34171-1
	1/4	.531 x 1.327	.250	A0971-ND	.40	.35	34855	A0971CT-ND	153.70	279.45	A0971TR-ND	2,500	223.56/M	2-34855-1
	5/16	.531 x 1.327	.250	A0972-ND	.40	.35	34856	—	—	—	—	—	—	—
	3/8	.593 x 1.421	.230	A0973-ND	.40	.35	34173	—	—	—	—	—	—	—
	2	.750 x 1.594	.250	A09023-ND[1]	1.10	.97	34837	—	—	—	—	—	—	—
8 AWG Red														
1	8	.478 x 1.586	.360	A27530-ND	1.06	.93	52041	—	—	—	—	—	—	—
	10	.431 x 1.556	.360	A27318-ND	.70	.61	52263	—	—	—	A27318TR-ND	500	203.35	52263-2
	10	.431 x 1.576	.330	A27317-ND	.70	.61	52263-1	—	—	—	—	—	—	—
	1/4	.431 x 1.561	.360	A28196-ND	1.60	1.41	55621-1	—	—	—	—	—	—	—
	1/4	.478 x 1.586	.360	A27320-ND	1.06	.93	52041-1	—	—	—	A27320TR-ND	500	567.57	52041-7
	1/4	.478 x 1.600	.330	A27319-ND	1.04	.92	52041-3	—	—	—	A27319TR-ND	500	558.31	52041-9
	5/16	.587 x 1.696	.360	A27321-ND	1.14	1.00	52291	—	—	—	—	—	—	—
	3/8	.587 x 1.696	.360	A27531-ND	1.08	.95	52291-1	—	—	—	—	—	—	—
	1/2	.875 x 1.860	.330	A27532-ND	3.61	3.18	52262-1	—	—	—	—	—	—	—
6 AWG Blue														
1	8	.500 x 1.869	.360	A27322-ND	2.11	1.85	52042-2	—	—	—	—	—	—	—
	10	.468 x 1.719	.436	A27323-ND	1.11	.98	52265	—	—	—	—	—	—	—
	10	.500 x 1.844	.436	A27533-ND	2.11	1.85	52042-4	—	—	—	—	—	—	—
	1/4	.398 x 1.846	.450	A28197-ND	1.34	1.18	55679-1	—	—	—	—	—	—	—
	1/4	.500 x 1.844	.436	A27325-ND	1.19	1.04	52042-1	—	—	—	—	—	—	—
	1/4	.500 x 1.869	.360	A27324-ND	1.23	1.09	52042-3	—	—	—	A27324TR-ND	500	604.18	52042-9
	5/16	.625 x 1.906	.450	A27326-ND	2.09	1.84	52264	—	—	—	—	—	—	—
	3/8	.625 x 1.906	.450	A27534-ND	2.19	1.93	52264-1	—	—	—	—	—	—	—
	1/2	.815 x 1.851	.436	A27535-ND	2.86	2.52	52350	—	—	—	—	—	—	—
4 AWG Yellow														
1	10	.546 x 1.948	.450	A27327-ND	1.55	1.36	52043-2	—	—	—	—	—	—	—
	1/4	.546 x 1.948	.450	A27328-ND	2.45	2.16	52043-3	—	—	—	—	—	—	—
	1/4	.546 x 1.948	.515	A27329-ND	2.32	2.04	52043-1	—	—	—	—	—	—	—
	5/16	.679 x 2.014	.450	A27330-ND	3.17	2.79	52266-3	—	—	—	—	—	—	—
	5/16	.679 x 2.014	.515	A27331-ND	2.47	2.18	52266	—	—	—	—	—	—	—
	3/8	.679 x 2.014	.450	A27536-ND	2.44	2.15	52266-4	—	—	—	—	—	—	—
2 AWG Red														
1	1/4	.675 x 2.071	.560	A27332-ND	3.22	2.84	52267-1	—	—	—	—	—	—	—
	5/16	.711 x 2.089	.560	A27537-ND	3.20	2.82	52044-4	—	—	—	—	—	—	—
	5/16	.711 x 2.089	.632	A27538-ND	2.13	1.87	52044-1	—	—	—	—	—	—	—
	3/8	.711 x 2.089	.632	A27539-ND	3.23	2.85	52044-2	—	—	—	—	—	—	—
1/0 AWG Blue														
1	5/16	.807 x 2.447	.684	A27333-ND	2.67	2.35	52045-1	—	—	—	—	—	—	—
	3/8	.807 x 2.447	.665	A27540-ND	2.67	2.35	52045-5	—	—	—	—	—	—	—

[1] Short; [2] Long

(Continued)

Spade Tongue Terminals

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
					10	100			500	1,000		Size	Pricing	
22-16 AWG Red														
2	6	.250 x .858	.140	A27425-ND	.26	.23	327043	A27425CT-ND	—	194.78	A27425TR-ND	5,000	155.82/M	2-327043-1
	6	.297 x .765	.125	A27572-ND	.32	.29	327735	A27572CT-ND	—	429.03	A27572TR-ND	5,000	343.22/M	2-327735-1
	6	.297 x .765	.140	A0974-ND	.26	.23	320665	—	—	—	—	—	—	—
	8	.375 x .920	.125	A27573-ND	.35	.31	32981	A27573CT-ND	—	389.60	A27573TR-ND	5,000	233.76/M	2-32981-1
	8	.375 x .920	.140	A0975-ND	.26	.23	34155	—	—	—	—	—	—	—
	10	.375 x .920	.140	A0976-ND	.26	.23	34156	—	—	—	—	—	—	—
16-14 AWG Blue														
2	6	.297 x .765	.145	A0977-ND	.26	.23	322994	—	—	—	—	—	—	—
	8	.385 x .920	.193	A0978-ND	.26	.23	34166	—	—	—	—	—	—	—
	10	.385 x .920	.193	A0979-ND	.26	.23	34167	—	—	—	—	—	—	—
12-10 AWG Yellow														
2	8	.406 x 1.095	.250	A0980-ND	.70	.62	35152	—	—	—	—	—	—	—
	10	.406 x 1.095	.250	A0981-ND	.34	.30	34176	A0981CT-ND	281.71	512.20	A0981TR-ND	2,500	409.76/M	2-34176-1

Flanged Spade

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
					10	100			500	1,000		Size	Pricing	
22-16 AWG Red														
3	6	.328 x .749	.140	A28249-ND	.56	.50	324560	A28249CT-ND	—	559.98	A28249TR-ND	5,000	447.98/M	2-324560-1
	6	.296 x .749		A0982-ND	.28	.25	322249	A0982CT-ND	—	204.00	A0982TR-ND	5,000	163.20/M	1-322249-1
	8	.416 x .842		A0983-ND	.93	.82	324169	—	—	—	—	—	—	—
	8	.296 x .749		A27433-ND	.37	.33	1-322249-0	A27433CT-ND	—	489.70	A27433TR-ND	5,000	391.76/M	1-322249-9
	10	.296 x .749		A0984-ND	.56	.50	328516	—	—	—	—	—	—	—
16-14 AWG Blue														
3	6	.294 x .749	.193	A0985-ND	.28	.25	324165	A0985CT-ND	—	204.00	A0985TR-ND	5,000	163.20/M	2-324165-1
	8	.294 x .749		A09024-ND	.41	.36	53874-1	A09024CT-ND	—	308.03	A09024TR-ND	5,000	246.42/M	53874-2
12-10 AWG Yellow														
3	6	.296 x 1.017	.250	A0986-ND	.64	.56	324581	A0986CT-ND	343.04	623.70	A0986TR-ND	2,500	498.96/M	1-324581-1
	8	.416 x 1.017	.250	A0987-ND	.72	.64	324172	—	—	—	—	—	—	—
	10	.416 x 1.017	.250	A09025-ND	.73	.64	52856	—	—	—	—	—	—	—

Spring Spade Tongue

Fig.	Stud Size	Dim. - Inch W x L	Ins. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Reel		AMP Part No.
					10	100			500	1,000		Size	Pricing	
Short														
22-16 AWG Red														
4	4	.203 x .811	.140	A0988-ND	.31	.27	52947	A0988CT-ND	—	454.35	A0988TR-ND	5,000	363.48/M	52947-1
	6	.234 x .811		A27440-ND	.31	.27	53240-1	A27440CT-ND	—	227.18	A27440TR-ND	5,000	136.31/M	53240-2
	6	.250 x .811		A0989-ND	.29	.26	52949	A0989CT-ND	—	184.70	A0989TR-ND	5,000	147.76/M	52949-1
	8	.244 x .872		A27441-ND	.40	.36	53241-1	A27441CT-ND	—	218.45	A27441TR-ND	5,000	174.76/M	53241-2
	8	.375 x .872		A0990-ND	.37	.33	52950	A0990CT-ND	—	454.35	A0990TR-ND	5,000	272.61/M	52950-1
	10	.294 x .920		A27442-ND	.37	.33	53242-1	—	—	—	—	—	—	—
	10	.406 x .920		A0991-ND	.45	.39	52951	A0991CT-ND	—	436.90	A0991TR-ND	5,000	262.14/M	52951-1
16-14 AWG Blue														
4	6	.250 x .811	.193	A0992-ND	.29	.26	52955	A0992CT-ND	—	218.45	A0992TR-ND	5,000	174.76/M	52955-1
	6	.250 x .860	.250	A27575-ND	.40	.36	52955-2	—	—	—	—	—	—	—
	8	.244 x .872	.193	A27443-ND	.34	.30	53244-1	—	—	—	—	—	—	—
	8	.375 x .872	.193	A0993-ND	.36	.31	52956	A0993CT-ND	—	227.18	A0993TR-ND	5,000	181.74/M	52956-1
	10	.294 x .920	.193	A27576-ND	.40	.36	53245-1	—	—	—	—	—	—	—
	10	.406 x .920	.193	A0994-ND	.31	.27	52957	A0994CT-ND	—	218.45	A0994TR-ND	5,000	131.07/M	52957-1
12-10 AWG Yellow														
4	6	.250 x .959	.200	A27577-ND	.53	.47	52961	A27577CT-ND	325.45	591.73	A27577TR-ND	2,500	355.04/M	52961-1
	6	.250 x .959	.250	A27444-ND	.53	.47	53246-1	—	—	—	—	—	—	—
	8	.312 x 1.052	.250	A27541-ND	.55	.49	53247-1	—	—	—	—	—	—	—
	8	.375 x 1.052	.200	A27578-ND	.56	.50	52962	—	—	—	—	—	—	—
	10	.406 x 1.100	.200	A27445-ND	.58	.51	52963	—	—	—	—	—	—	—
Long														
22-16 AWG Red														
4	6	.250 x .945	.140	A09027-ND	.52	.45	52453	—	—	—	—	—	—	—
	8	.281 x .991		A09028-ND	.51	.45	52454	—	—	—	—	—	—	—
	10	.343 x 1.017		A09029-ND	.43	.38	52455	—	—	—	—	—	—	—
16-14 AWG Blue														
4	6	.250 x .945	.193	A09030-ND	.49	.43	52463	—	—	—	—	—	—	—
	8	.281 x .991	.170	A09031-ND	.52	.46	52464	A09031CT-ND	—	454.35	A09031TR-ND	5,000	272.61/M	52464-1
	10	.343 x 1.017	.170	A09032-ND	.61	.54	52465	—	—	—	—	—	—	—

Butt Splices

Fig.	Dim. L Max. Inch	Ins. Dia. Inch	Digi-Key Part No.	Price Each		Digi-Key Part No.	Cut Tape Pricing		Tape & Reel†	
				10	100		500	1,000	Size	Pricing
26-22 AWG Yellow (26-24 per MIL-T-7928)										
5	.620	.080	A27461-ND	.28	.25	—	—	—	—	—
22-16 AWG Red (22-18 per MIL-T-7928)										
5	1.065	.120	A09033-ND	.30	.26	—	—	—	—	—
	1.065	.170	A27462-ND	.31	.27	—	—	—	—	—
	1.076	.140	A0997-ND	.20	.18	A0997CT-ND	121.39	220.70	2,500	176.56/M
	1.065	.083 x .171	A27463-ND	.31	.27	—	—	—	—	—
16-14 AWG Blue										
5	1.065	.140	A27464-ND	.45	.40	—	—	—	—	—
	1.065	.170	A0998-ND	.20	.18	A0998CT-ND	80.33	146.05	2,500	116.84/M
	1.065	.215	A27465-ND	.31	.27	—	—	—	—	—
	1.105	.170	A28185-ND	.92	.81	—	—	—	—	—
	1.065	.135 x .245	A09034-ND	.51	.45	—	—	—	—	—
16-14 AWG Natural w/Blue Stripes										
5	1.065	.170	A27542-ND	.31	.27	—	—	—	—	—
12-10 AWG Yellow										
5	1.160	.200	A27466-ND	.51	.45	—	—	—	—	—
		.230	A0999-ND	.33	.29	—	—	—	—	—
		.250	A27467-ND	.67	.59	—	—	—	—	—

† For Tape and Reel part number, change CT-ND to TR-ND.

Multiple Stud Terminals

Fig.	AWG Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel 5,000	AMP Part No.
6	22-16 Red	6-8-10	.125	A27556CT-ND	35.65	A27556TR-ND	231.52/M	54774-2

Ring Tongue 90° Bend Terminal

Fig.	AWG Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
7	8 Red	10	.360	A27563-ND	2.16	1.90	55654-1
	6 Blue	1/4	.436V	A27564-ND	3.20	2.81	54754-1

Parallel Splices

Fig.	AWG Color	Dim. L Max. Inch	Insul. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
8	22-16 Red	.760	.120	A27468-ND	.33	.29	34131
	22-16 Red	.760	.140	A27574-ND	.26	.23	34132
	16-14 Blue	.760	.140	A27469-ND	.34	.30	34133
	16-14 Blue	.760	.170	A27470-ND	.88	.77	34134
	12-10 Yellow	.843	.200	A27471-ND	.50	.44	34135
	12-10 Yellow	.870	.230	A27472-ND	.44	.39	34136

Ring Flag Tongue

Fig.	AWG Color	Stud Size	Insul. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.
					10	100	
9	16-14 Blue	14	.170	A27557-ND	1.45	1.28	322310
	16-14HD Black		.230	A27558-ND	1.71	1.51	322313
	12-10 Yellow		.230	A27559-ND	2.31	2.04	322316

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for Insulated Terminals, use with A9996	**$43.50**
A9811-ND	Crimp Tool, Insulated Terminals with Die Set	**$96.00**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit (includes hand tool A9811-ND, 225 insulated ring and spade terminals in 12-10, 16-14 and 22-16 AWG wire sizes)	**$134.84**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminal and Splices	**$37.23**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminals and Splices	**$34.71**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$83.21**
A27991-ND	Hand Tool CERTI-CRIMP and PLASTI-GRIP, 26-20 AWG	**$820.40**

tyco Electronics AMP

FASTONS

Fig. 1

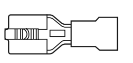

Fig. 2

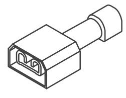

Fig. 3

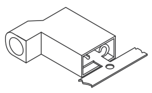

PIDG FASTON: Receptacle material is brass unless otherwise noted. **Ultra-Fast FASTON Receptacles:** Fully Insulated FASTON Receptacles offer all the advantages of the standard Ultra-Fast product plus an insulation crimp. Ultra-Fast Plus Receptacles are preinsulated assemblies featuring a co-molded housing produced from two different nylon materials. The receptacle and wire barrel portions of the housing are molded from type 6/6 nylon material with a 125°C UL temperature rating. The insulation barrel is molded from a premium grade nylon. Material: • Housing: Nylon Type 6/6 • Terminal: Tin-Plated, Copper alloy • Base : Brass

PIDG FASTONS

Fig.	AWG	Insulation Color	Fits Tab Size (Inch)	Insul. Dia. Inch	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Size	Tape & Reel Pricing	AMP Part No.
						10	100			500	1,000				
					.110" Low Insertion										
1	22-18	Red	.110 x .016	.140	A27944-ND	.33	.29	640921-1	A27944CT-ND	—	320.45	A27944TR-ND	5,000	256.36/M	640921-2
	22-18	Red	.110 x .020	.140	A09050-ND	.33	.29	640923-1	A09050CT-ND	—	242.78	A09050TR-ND	5,000	194.22/M	640923-2
	22-18	Red	.110 x .032	.140	A09051-ND	.33	.29	640925-1	A09051CT-ND	—	242.78	A09051TR-ND	5,000	194.22/M	640925-2
	16-14	Blue	.110 x .020	.170	A0912-ND	.33	.29	640929-1	A0912CT-ND	—	242.78	A0912TR-ND	4,000	194.22/M	640929-2
	16-14	Blue	.110 x .032	.170	A27967-ND	.33	.29	640931-1	A27967CT-ND	—	242.78	A27967TR-ND	4,000	194.22/M	640931-2
	16-14	Blue	.110 x .016	.170	A27964-ND	.33	.29	640927-1	A27964CT-ND	—	242.78	A27964TR-ND	4,000	194.22/M	640927-2
					.110" Standard										
1	22	Red/Green	.110 x .016	.040 - 0.80	A28002-ND#	.84	.74	55319-1	—	—	—	—	—	—	—
	22-18	Trans.	.110 x .016	.110	A27942-ND§	.35	.31	61048-1	A27942CT-ND§	—	377.58	A27942TR-ND§	5,000	302.06/M	61048-2
	22-18	Trans.	.110 x .020	.100	A09049-ND§	.35	.31	61060-1	A09049CT-ND§	—	260.68	A09049TR-ND§	5,000	208.54/M	61060-2
	22-18	Trans.	.110 x .032	.100	A0911-ND§	.35	.31	60894-1	A0911CT-ND§	—	260.68	A0911TR-ND§	5,000	208.54/M	60894-2
					.187" Series										
1	26-24	Yellow	.187 x .020	.082	A27940-ND§	.25	.22	641321-1	A27940CT-ND§	—	320.45	A27940TR-ND§	5,000	192.27/M	641321-2
	22-18	Red		.135	A0909-ND	.25	.22	640917-1	A0909CT-ND	—	197.78	A0909TR-ND	4,000	158.22/M	640917-2
	16-14	Blue		.170	A0910-ND	.33	.29	640919-1	A0910CT-ND	—	242.78	A0910TR-ND	4,000	194.22/M	640919-2
					.205" Series										
1	22-18	Red	.205 x .020	.135	A09047-ND	.33	.29	640909-1	A09047CT-ND	—	242.78	A09047TR-ND	4,000	194.22/M	640909-2
	22-18	Red/Black	.205 x .020	.140	A27955-ND	.67	.59	640174-1	—	—	—	—	—	—	—
	22-18	Red	.205 x .032	.135	A0907-ND	.33	.29	640911-1	A0907CT-ND	—	242.78	A0907TR-ND	4,000	194.22/M	640911-2
	16-14	Blue	.205 x .020	.170	A09048-ND	.33	.29	640913-1	A09048CT-ND	—	320.45	A09048TR-ND	4,000	256.36/M	640913-2
	16-14	Blue	.205 x .032	.170	A0908-ND	.33	.29	640915-1	A0908CT-ND	—	320.45	A0908TR-ND	4,000	256.36/M	640915-2
					.250" Series										
1	22-18	Red	.250 x .032	.140	A0903-ND	.25	.22	640903-1	A0903CT-ND	—	197.78	A0903TR-ND	4,000	158.22/M	640903-2
	22-18	Red		.140	A27957-ND*	.40	.35	55675-1	A27957CT-ND*	—	325.35	A27957TR-ND	4,000	260.28/M	55675-2
	16-14	Blue		.170	A0904-ND	.25	.22	640905-1	A0904CT-ND	108.78	197.78	A0904TR-ND	3,500	158.22/M	640905-2
	14-12	Green		.250	A0905-ND§	.46	.40	42844-1	A0905CT-ND§	188.97	343.58	A0905TR-ND§	2,500	274.86/M	42844-3
	14-12	Green		.250	A27977-ND§◊	.50	.44	42844-2	—	—	—	—	—	—	—
	12-10	Yellow		.250	A0906-ND	.36	.32	640907-1	A0906CT-ND	152.14	276.63	A0906TR-ND	2,500	221.30/M	640907-2
	12-10	Yellow		.250	A27978-ND	.92	.81	61198-2	—	—	—	—	—	—	—

§ Not UL or CSA approved or listed # Insulation restricted *Unplated receptacle body ◊ Receptable material is phosphor bronze

Ultra-Fast FASTON Receptacles

Fig.	AWG Color	Insulation Diameter	Mating Tab	Digi-Key Part No.	Price Each		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		Digi-Key Part No.	Strip & Reel		AMP Part No.
					10	100			500	1,000		Size	Pricing	
				Ultra-Fast Plus Fully Insulated										
				.110" Series										
2	22-18 Red	.060-.120	.020	—	—	—	—	A27844CT-ND	81.52	140.02	A27844TR-ND	3,000	124.46/M	2-520932-2
				.187" Series										
2	22-18 Red	.060-.135	.020	A27846-ND	.33	.29	2-520409-2	A27846CT-ND	87.20	158.55	A27846TR-ND	2,700	126.85/M	2-520401-2
	22-18 Red	.060-.135	.032	A27848-ND	.33	.29	2-520411-2	A27848CT-ND	87.20	158.55	A27848TR-ND	2,700	126.85/M	2-520403-2
	16-14 Blue	.090-.160	.020	A27850-ND	.33	.29	3-520410-2	A27850CT-ND	—	158.55	A27850TR-ND	2,200	126.85/M	3-520402-2
	16-14 Blue	.090-.160	.032	A27852-ND	.33	.29	3-520412-2	A27852CT-ND	—	158.55	A27852TR-ND	2,200	126.85/M	3-520404-2
				.250" Series										
2	22-18 Red	.060-.135	.032	A27854-ND	.36	.32	2-520407-2	A27854CT-ND	95.71	174.03	A27854TR-ND	2,200	139.22/M	2-520405-2
	16-14 Blue	.090-.160		A27856-ND	.36	.32	3-520408-2	A27856CT-ND	95.71	174.03	A27856TR-ND	2,200	139.22/M	3-520406-2
				Ultra-Fast Fully Insulated										
				.110" Series										
2	26-22 Violet	.100	.020	A27793-ND	.27	.24	7-520366-2	A27793CT-ND	—	148.23	A27793TR-ND	3,000	118.58/M	7-520365-2
	22-18 Red	.120	.016	A27795-ND	.27	.24	2-520081-2	A27795CT-ND	—	148.23	A27795TR-ND	3,000	118.58/M	2-520080-2
	22-18 Red	.120	.020	A27797-ND	.24	.21	2-520084-2	A27797CT-ND	—	148.23	A27797TR-ND	3,000	118.58/M	2-520083-2
	22-18 Red	.120	.032	A27799-ND	.27	.24	2-520273-2	A27799CT-ND	—	148.23	A27799TR-ND	3,000	118.58/M	2-520272-2
	22-18 Red	.230	.020	—	—	—	—	A27800CT-ND	87.05	149.51	A27800TR-ND	2,000	132.90/M	2-520306-2
	22-18 Red	.230	.032	—	—	—	—	A27801CT-ND	87.05	149.51	A27801TR-ND	2,000	132.90/M	2-520310-2
	16-14 Blue	.260	.020	—	—	—	—	A27802CT-ND	87.05	149.51	A27802TR-ND	2,000	132.90/M	3-520370-2
				.187" Series										
2	22-18 Red	.135	.020	A27804-ND	.22	.20	2-520182-2	A27804CT-ND	75.39	137.08	A27804TR-ND	2,700	109.66/M	2-520181-2
	22-18 Red	.135	.032	A27806-ND	.25	.22	2-520194-2	A27806CT-ND	75.39	137.08	A27806TR-ND	2,700	109.66/M	2-520193-2
	22-18 Red	.230	.020	—	—	—	—	A27807CT-ND	80.49	138.24	A27807TR-ND	2,000	122.88/M	2-520261-2
	22-18 Red	.230	.032	A27809-ND	.28	.24	2-520275-2	A27809CT-ND	—	169.88	A27809TR-ND	2,000	135.90/M	2-520274-2
	16-14 Blue	.160	.020	A27811-ND	.25	.22	3-350816-2	A27811CT-ND	75.39	137.08	A27811TR-ND	2,200	109.66/M	3-350815-2
	16-14 Blue	.160	.032	A27813-ND	.25	.22	3-520125-2	A27813CT-ND	75.39	137.08	A27813TR-ND	2,200	109.66/M	3-520124-2
	16-14 Blue	.260	.020	A27815-ND	.28	.24	3-520151-2	A27815CT-ND	—	153.60	A27815TR-ND	2,000	122.88/M	3-520150-2
				.250" Series										
2	22-18 Red	.135	.032	A27817-ND	.24	.21	2-520184-2	A27817CT-ND	82.78	150.50	A27817TR-ND	2,200	120.40/M	2-520183-2
	22-18 Red	.135		A27819-ND†	.38	.33	2-520184-4	A27819CT-ND†	—	197.95	A27819TR-ND†	2,200	158.36/M	2-520183-4
	22-18 Red	.230		A27821-ND	.30	.26	2-520264-2	A27821CT-ND	—	168.65	A27821TR-ND	2,000	134.92/M	2-520263-2
	22-18 Red	.230		—	—	—	—	A27822CT-ND†	116.20	199.58	A27822TR-ND†	2,000	177.40/M	2-520263-4
	16-14 Blue	.160		A27824-ND	.24	.21	3-350820-2	A27824CT-ND	82.78	150.50	A27824TR-ND	2,200	120.40/M	3-350819-2
	16-14 Blue	.160		A27826-ND†	.38	.33	3-520117-2	A27826CT-ND†	—	197.95	A27826TR-ND†	2,200	158.36/M	3-520116-2
	16-14 Blue	.260		A27828-ND	.27	.24	3-520141-2	A27828CT-ND	—	168.65	A27828TR-ND	2,000	134.92/M	3-520140-2
	16-14 Blue	.260		—	—	—	—	A27829CT-ND†	116.20	199.58	A27829TR-ND†	2,000	177.40/M	3-520140-4
	12-10 Yellow	.320		A27831-ND	.34	.30	4-520448-2	A27831CT-ND	106.77	194.13	A27831TR-ND	1,500	155.30/M	4-520447-2
				Ultra-Fast Fully Insulated Faston Tabs										
				.250" Series										
—	22-18 Red	.135	.032	A27906-ND	.42	.37	2-520103-2	—	—	—	A27906TR-ND	1,400	226.53/M	2-520102-2
	16-14 Blue	.160		A27907-ND	.42	.37	3-520107-2	—	—	—	A27907TR-ND	1,400	226.53/M	3-520106-2
				Ultra-Fast Fully Insulated Faston Flag Receptacles										
				.187" Series										
3	22-18 Red	.165	.020	A27833-ND	.43	.38	2-520335-2	A27833CT-ND	—	253.90	A27833TR-ND	2,200	203.12/M	2-520334-2
	22-18 Red	.165	.032	A27835-ND	.43	.38	2-520337-2	A27835CT-ND	—	253.90	A27835TR-ND	2,200	203.12/M	2-520336-2
	16-14 Blue	.185	.020	A27837-ND	.43	.38	3-520339-2	A27837CT-ND	—	253.90	A27837TR-ND	2,200	203.12/M	3-520338-2
	16-14 Blue	.185	.032	—	—	—	—	A27838CT-ND	133.04	228.51	A27838TR-ND	2,200	203.12/M	3-520340-2
				.250" Series										
3	22-18 Red	.165	.032	A27840-ND	.41	.36	2-520129-2	A27840CT-ND	—	273.38	A27840TR-ND	2,200	218.70/M	2-520128-2
	22-18 Red	.230		—	—	—	—	A27841CT-ND	145.28	232.44	A27841TR-ND	1,700	203.39/M	2-520856-2
	16-14 Blue	.185		A27843-ND	.41	.36	3-520133-2	A27843CT-ND	150.36	—	A27843TR-ND	2,100	218.70/M	3-520132-2

† Terminal base material is phosphor bronze

A28005-ND	Hand Tool for Fastons (without dies)	**$245.66**
A27992-ND	TETRA-CRIMP Hand Tool for PIDG Faston Receptacles	**$369.26**
A28009-ND	Ultra-Fast Plus Die Set for .187 and .250 Series (22-18 AWG), use with A28005-ND	**$369.26**
A28010-ND	Ultra-Fast Plus Die Set for .187 and .250 Series (16-14 AWG), use with A28005-ND	**$369.26**
A28007-ND	Die Set Ultra-Fastons for 22-18 AWG, use with A28005-ND	**$238.50**
A28008-ND	Die Set Ultra-Fastons for 16-14 AWG, use with A28005-ND	**$238.50**
A27997-ND	Hand Tool CERTI-CRIMP for PLASTI-GRIP and PIDG Fastons 26-24	**$769.41**

Budget and Economy Fastons

Budget Line

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing			Digi-Key Part No.	Tape & Reel		AMP Part No.
							100	500	1,000		Size	Pricing	
.250” Series - Insulation Support													
1	20-14	.012	Brass	.250 x .032	.085 - .135	A29936CT-ND	9.53	43.70	79.45	A29936TR-ND	12,000	42.91/M	63648-1
	18-22	.016	Brass		.090 - .130	A27608CT-ND	6.31	26.30	42.08	A27608TR-ND	10,000	28.41/M	42510-1
	18-22	.016	Tin Plated Brass		.090 - .130	A27609CT-ND	6.83	28.46	45.54	A27609TR-ND	10,000	30.74/M	42510-2
	14-18	.016	Brass		.120 - .170	A27610CT-ND	5.15	21.46	34.34	A27610TR-ND	10,000	23.18/M	42400-1
	14-18	.016	Tin Plated Brass		.120 - .170	A27611CT-ND	5.75	23.95	38.32	A27611TR-ND	10,000	25.87/M	42400-2
Flag													
2	12-18	.016	Brass	.250 x .032	.110 - .210	A27612CT-ND	7.21	30.03	48.04	A27612TR-ND	4,000	36.03/M	42511-1
			Tin Plated Brass			A27613CT-ND	6.71	27.94	44.70	A27613TR-ND	4,000	33.53/M	42511-2
3	18-22	.016	Brass	.250 x .032	.060 - 1.00	A27618CT-ND†	8.06	33.56	53.70	A27618TR-ND†	9,000	40.28/M	62718-1
	18-22		Tin Plated Brass		.060 - 1.00	A27619CT-ND†	14.85	61.89	99.02	A27619TR-ND†	9,000	74.27/M	62718-2
	14-18		Brass		.110 - .160	A27614CT-ND*	11.88	49.49	79.18	A27614TR-ND*	9,000	59.39/M	63009-1
	14-18		Tin Plated Brass		.110 - .160	A27615CT-ND*	6.85	28.55	45.68	A27615TR-ND*	9,000	34.26/M	63009-2
	14-18		Brass		.110 - .160	A27616CT-ND†	6.45	26.89	43.02	A27616TR-ND†	9,000	32.27/M	63010-1
	14-18		Tin Plated Brass		.110 - .160	A27617CT-ND†	7.28	30.33	48.52	A27617TR-ND†	9,000	36.39/M	63010-2
Low Insertion Force													
4	22-18	.016	Brass/Tin	.250 x .032	.090 - .130	A29940CT-ND	8.05	36.89	67.08	A29940TR-ND	10,000	36.23/M	63609-2
	18-14	.016	Steel/Nickel	.250 x .032	.120 - .170	A29941CT-ND	9.99	45.77	83.23	A29941TR-ND	10,000	44.95/M	63674-1
	14-18	.016	Brass	.250 x .032	.120 - .170	A27780CT-ND	5.87	24.46	39.14	A27780TR-ND	10,000	26.42/M	63306-1
	14-18	.016	Tin Plated Brass	.250 x .032	.120 - .170	A27781CT-ND	6.56	27.31	43.70	A27781TR-ND	10,000	29.50/M	63306-2
	14-10	.018	Brass	.250 x .032	.225 - .275	A29942CT-ND	9.95	45.62	82.95	A29942TR-ND	6,000	49.77/M	63539-1
	10-14	.018	Tin Plated Brass	.250 x .032	.150 - .200	A27783CT-ND	9.79	40.79	65.26	A27783TR-ND	9,000	48.95/M	63365-2
.187” Series - Insulation Support													
1	16-20	.012	Brass	.187 x .020	.090 - .130	A27715CT-ND	4.04	16.81	26.90	A27715TR-ND	20,000	18.16/M	42617-1
			Tin Plated Brass	.187 x .020		A27716CT-ND	4.32	18.00	28.80	A27716TR-ND	20,000	19.44/M	42617-2
			Brass	.187 x .032		A27717CT-ND	6.71	27.94	44.70	A27717TR-ND	20,000	30.18/M	61919-1
Flag													
2	16-20	.012	Brass	.187 x .020	.110 - .170	A27718CT-ND	5.30	22.06	35.30	A27718TR-ND	6,000	26.48/M	42618-1
			Tin Plated Brass			A27719CT-ND	5.83	24.28	38.84	A27719TR-ND	6,000	29.13/M	42618-2
Low Insertion Force													
4	16-20	.012	Brass	.187 x .020	.090 - .130	A27786CT-ND	5.69	23.70	37.92	A27786TR-ND	20,000	25.60/M	63475-1
			Tin Plated Brass	.187 x .020		A27787CT-ND	4.71	19.63	31.40	A27787TR-ND	20,000	21.20/M	63475-2
			Brass	.187 x .032		A27788CT-ND	6.66	27.76	44.42	A27788TR-ND	20,000	29.99/M	63477-1
			Tin Plated Brass	.187 x .032		A27789CT-ND	6.90	28.75	46.00	A27789TR-ND	20,000	31.05/M	63477-2

† Right handed flag * Left handed flag

Fig. 1

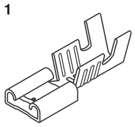

Fig. 2

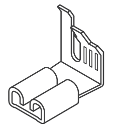

Fig. 3

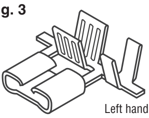

Left handed flag shown

Fig. 4

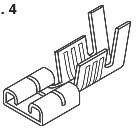

Economy Line

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing			Digi-Key Part No.	Tape & Reel		AMP Part No.
							100	500	1,000		Size	Pricing	
.250” Series													
Insulation Support													
1	22-26	.016	Brass	.250 x .032	.040 - .060	A27620CT-NDΔ	10.37	43.23	69.16	A27620TR-NDΔ	12,000	46.69/M	61202-1
	18-22	.016	Brass	.250 x .032	.090 - .130	A27621CT-ND	5.02	20.93	33.48	A27621TR-ND	12,000	22.60/M	42743-1
			Tin Plated Brass			A27622CT-ND	5.64	23.51	37.62	A27622TR-ND	12,000	25.40/M	42743-2
	14-18	.016	Brass	.250 x .032	.120 - .170	A27623CT-ND	5.02	20.93	33.48	A27623TR-ND	12,000	22.60/M	42660-1
			Tin Plated Brass		.120 - .170	A27624CT-ND	5.64	23.51	37.62	A27624TR-ND	12,000	25.40/M	42660-2
			Brass		.150 - .218	A27625CT-ND	6.21	25.88	41.40	A27625TR-ND	10,000	27.95/M	42692-1
			Tin Plated Brass		.150 - .218	A27626CT-ND	5.64	23.51	37.62	A27626TR-ND	10,000	25.40/M	42692-2
2	18-22	.015	Brass	.250 x .032	.060 - .100	A27627CT-ND	12.85	53.54	85.66	A27627TR-ND	2,500	74.96/M	61988-1
			Tin Plated Brass			A27628CT-ND	14.33	59.73	95.56	A27628TR-ND	2,500	83.62/M	61988-2
	14-18	.015	Brass	.250 x .032	.120 - .170	A27629CT-ND	12.81	53.38	85.40	A27629TR-ND	2,500	74.73/M	61944-1
		.015	Tin Plated Brass			A27630CT-ND	13.68	57.00	91.20	A27630TR-ND	2,500	79.80/M	61944-2
		.032-.016	Brass			A27631CT-ND‡	20.77	86.53	138.44	A27631TR-ND‡	2,500	121.14/M	62109-1
		.032-.016	Tin Plated Brass			A27632CT-ND‡	23.64	98.49	157.58	A27632TR-ND‡	2,500	137.89/M	62109-2
	10-14	.015	Brass	.250 x .032	.150 - .200	A27633CT-ND	12.85	53.54	85.66	A27633TR-ND	2,000	74.96/M	62253-1
			Tin Plated Brass			A27634CT-ND	13.68	57.00	91.20	A27634TR-ND	2,000	79.80/M	62253-2
Non-Insulation Support													
3	14-18	.016	Brass	.250 x .032	—	A27638CT-ND	6.52	27.16	43.46	A27638TR-ND	14,000	29.34/M	42845-1
3	14-18	.016	Tin Plated Brass		—	A27639CT-ND	6.73	28.05	44.88	A27639TR-ND	14,000	30.30/M	42845-2
4	14-18	.015	Pre-Tin Brass		—	A27640CT-ND	13.58	56.59	90.54	A27640TR-ND	2,500	79.23/M	62276-1
4	10-14	.015	Pre-Tin Brass		—	A27641CT-ND	30.73	128.03	204.84	A27641TR-ND	2,000	179.24/M	62068-1
Flag Insulation Support													
5	14-18	.016	Brass	.250 x .032	.110 - .160	A27635CT-ND*	5.78	24.09	38.54	A27635TR-ND*	11,000	28.91/M	63096-1
6	12-18		Brass		.110 - .210	A27636CT-ND	6.02	25.06	40.10	A27636TR-ND	4,000	30.08/M	42742-1
6	12-18		Tin Plated Brass		.110 - .210	A27637CT-ND	6.59	27.48	43.96	A27637TR-ND	4,000	32.97/M	42742-2
Flag Non-Insulation Support													
7	12-18	.016	Pre-Tin Brass	.250 x .032	—	A27642CT-ND†	6.59	27.48	43.96	A27642TR-ND†	5,000	32.97/M	61177-2
			Pre-Tin Brass		—	A27643CT-ND§	10.73	44.73	71.56	A27643TR-ND§	4,000	53.67/M	62091-2
	10-12 or (2)14	.016	Brass	.250 x .032	—	A27644CT-ND§	8.97	37.36	59.78	A27644TR-ND§	4,000	44.84/M	62011-1
			Tin Plated Brass		—	A27645CT-ND§	10.86	45.26	72.42	A27645TR-ND§	4,000	54.32/M	62011-2
.205” Series - Insulation Support													
8	18-22	.012	Brass	.205 x .020	.085 - .125	A27689CT-ND	5.53	23.03	36.84	A27689TR-ND	15,000	24.87/M	42710-1
	18-22		Tin Plated Brass	.205 x .020	.085 - .125	A27690CT-ND	6.05	25.19	40.30	A27690TR-ND	15,000	27.21/M	42710-2
	18-22		Tin Plated Brass	.205 x .032	.085 - .125	A27691CT-ND	14.55	60.63	97.00	A27691TR-ND	20,000	65.48/M	60904-2
	14-18		Tin Plated Brass	.205 x .020	.130 - .180	A27692CT-ND	6.05	25.19	40.30	A27692TR-ND	16,000	27.21/M	42713-2
.187” Series													
Insulation Support													
1	16-20	.012	Brass	.187 x .020	.090 - .130	A27720CT-ND	3.90	16.24	25.98	A27720TR-ND	20,000	17.54/M	42801-1
			Tin Plated Brass	.187 x .020		A27721CT-ND	4.36	18.16	29.06	A27721TR-ND	20,000	19.62/M	42801-2
			Brass	.187 x .032		A27722CT-ND	4.70	19.56	31.30	A27722TR-ND	20,000	21.13/M	60196-1
			Tin Plated Brass	.187 x .032		A27723CT-ND	5.04	20.99	33.58	A27723TR-ND	20,000	22.67/M	60196-2
Non-Insulation Support													
3	16-20	.012	Brass	.187 x .020	—	A27724CT-ND	6.23	25.98	41.56	A27724TR-ND	25,000	25.98/M	42799-1
			Tin Plated Brass		—	A27725CT-ND	6.63	27.64	44.22	A27725TR-ND	25,000	27.64/M	42799-2
Flag Insulation Support													
6	16-20	.012	Brass	.187 x .020	.110 - .170	A27726CT-ND	4.37	18.21	29.14	A27726TR-ND	6,000	21.86/M	42800-1
			Tin Plated Brass	.187 x .020		A27727CT-ND	4.95	20.61	32.98	A27727TR-ND	6,000	24.74/M	42800-2
			Brass	.187 x .032		A27728CT-ND	5.45	22.71	36.34	A27728TR-ND	6,000	27.26/M	60529-1
			Tin Plated Brass	.187 x .032		A27729CT-ND	5.22	21.76	34.82	A27729TR-ND	6,000	26.12/M	60529-2

Δ UL/CSA certified for 22 AWG only † Right handed flag * Left handed flag § Right or left handed. Carrier out front for thru splicing ‡ Dual thickness

Fig. 1

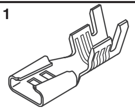

Fig. 2

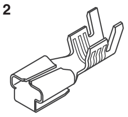

Fig. 3

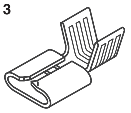

Fig. 4

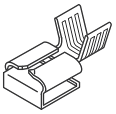

Fig. 5

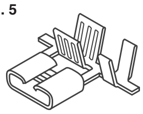

Fig. 6

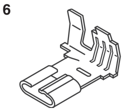

Fig. 7

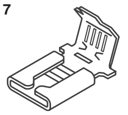

Fig. 8

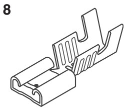

Fig. 1
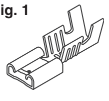

Fig. 2
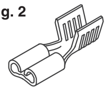

Fig. 3
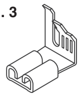

Fig. 4
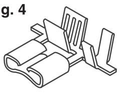

Fig. 5
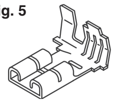

Fig. 6
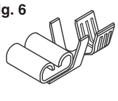

Fig. 7
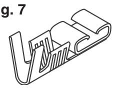

Fig. 8
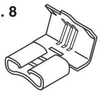

Premier

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	CSA	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AMP Part No.
										100	500	1,000		Size	Pricing	
.312" Series - Insulation Support																
1	14-18	.016	Brass	.312 x .032	.090 - .120	—	X	X	A27979CT-ND	12.11	50.44	80.70	A27979TR-ND	8,000	60.53/M	62092-1
	12-16		Tin Plated Brass		.160 or (2) .110 Max.	X	—	X	A27580CT-ND	13.94	58.08	92.92	A27580TR-ND	6,000	69.69/M	61399-1
.250" Series																
1	20-24	.016	Tin Plated Brass	.250 x .032	.030 - .070	X‡	—	X‡	A27581CT-ND	8.85	36.86	58.98	A27581TR-ND	12,000	39.82/M	61368-1
	18-22		Brass		.060 - .100	X	—	X	A27582CT-ND	8.85	36.86	58.98	A27582TR-ND	12,000	39.82/M	42640-1
	18-22		Tin Plated Brass		.060 - .100	X	—	X	A27583CT-ND	7.93	33.05	52.88	A27583TR-ND	12,000	35.70/M	42640-2
	18-22		Brass		.090 - .130	X	—	X	A27584CT-ND	8.85	36.86	58.98	A27584TR-ND	12,500	39.82/M	41771
	18-22		Tin Plated Brass		.090 - .130	X	—	X	A24736CT-ND	—	36.36	66.10	A24736TR-ND	12,500	35.70/M	41772
	14-18	.018	Tin Plated Brass	.250 x .032	.060 - .110	X	—	X	A24744CT-ND	—	—	73.73	A24744TR-ND	12,000	39.82/M	61375-1
		.016	Nickel Plated Steel		.120 - .170	—	X	—	A27588CT-ND	7.19	29.96	47.94	A27588TR-ND	10,000	32.36/M	42219-1
		.018	Brass		.120 - .170	X	—	X	A27587CT-ND	7.93	33.05	52.88	A27587TR-ND	11,000	35.70/M	41202
		.018	Tin Plated Brass		.120 - .170	X	—	X	A27589CT-ND	7.93	33.05	52.88	A27589TR-ND	11,000	35.70/M	41274
	12-16 or (2)18	.018	Brass	.250 x .032	.210-.265 or (2).120 Max.	X	—	X	A27590CT-ND	10.07	41.95	67.12	A27590TR-ND	6,000	50.34/M	41727
		.018	Tin Plated Brass		.210-.265 or (2).120 Max.	X	—	X	A27592CT-ND	9.28	38.65	61.84	A27592TR-ND	6,000	46.38/M	41728
		.016	Nickel Plated Steel		.210 - .265	—	X	—	A27591CT-ND	10.98	45.75	73.20	A27591TR-ND	5,000	54.90/M	42579-1
	10-14	.018	Brass	.250 x .032	.150 - .200	X	—	X	A27595CT-ND	7.93	33.05	52.88	A27595TR-ND	9,000	39.66/M	41449
			Tin Plated Brass			X	—	X	A24737CT-ND	—	—	66.10	A24737TR-ND	9,000	39.66/M	41450
	10-14 or (2)14	.018	Tin Plated Brass	.250 x .032	.225-.275 or (2).140 Max.	X	—	X	A27594CT-ND	9.28	38.65	61.84	A27594TR-ND	6,000	46.38/M	60635-1
			Brass			X	—	X	A27593CT-ND	10.07	41.95	67.12	A27593TR-ND	6,000	50.34/M	60635-3
	10-8	.017	Brass/Tin	.250 x .032	.230 - .280	X	—	X	A29935CT-ND	13.91	63.76	115.93	A29935TR-ND	5,000	92.74/M	62998-2
Non-Insulation Support																
2	14-18	.018	Tin Plated Brass	.250 x .032	—	X	—	X	A24738CT-ND	8.22	34.25	54.80	A24738TR-ND	12,000	36.99/M	41194
Flag Insulation Support																
3	12-18	.018	Brass	.250 x .032	.110 - .210	X	—	X	A27605CT-ND	10.06	41.93	67.08	A27605TR-ND	4,000	50.31/M	41531
		.018	Nickel Plated Steel			—	X	X	A24739CT-ND	12.24	51.00	81.60	A24739TR-ND	3,500	71.40/M	41531-1
		.018	Tin Plated Brass			X	—	X	A27606CT-ND	10.06	41.93	67.08	A27606TR-ND	4,000	50.31/M	41532
		.016	Nickel Plated Steel			—	—	—	A27607CT-ND	8.94	37.25	59.60	A27607TR-ND	3,500	52.16/M	42404-1
4	18-22	.016	Brass	.250 x .032	.060 - .100	X	—	X	A27597CT-ND*	9.30	38.76	62.02	A27597TR-ND*	9,000	46.52/M	62813-1
			Tin Plated Brass			X	—	X	A27598CT-ND*	9.78	40.74	65.18	A27598TR-ND*	12,000	48.89/M	62813-2
			Brass			X	—	X	A27599CT-ND†	11.89	49.54	79.26	A27599TR-ND†	12,000	59.45/M	62814-1
			Tin Plated Brass			X	—	X	A27600CT-ND†	14.88	62.00	99.20	A27600TR-ND†	9,000	74.40/M	62814-2
	14-18	.016	Brass	.250 x .032	.110 - .160	X	—	X	A27601CT-ND*	7.82	32.56	52.10	A27601TR-ND*	9,000	39.08/M	63011-1
			Tin Plated Brass			X	—	X	A27602CT-ND*	6.90	28.74	45.98	A27602TR-ND*	9,000	34.49/M	63011-2
			Brass			X	—	X	A27603CT-ND†	8.21	34.19	54.70	A27603TR-ND†	9,000	41.03/M	63012-1
			Tin Plated Brass			X	—	X	A27604CT-ND†	6.61	27.55	44.08	A27604TR-ND†	11,000	33.06/M	63012-2
Low Insertion Force - Flag Insulation Support																
5	12-18	.016	Brass	.250 x .032	.110 - .210	X	—	X	A27784CT-ND	6.99	29.14	46.62	A27784TR-ND	4,000	34.97/M	63445-1
			Tin Plated Brass			X	—	X	A27785CT-ND	8.34	34.75	55.60	A27785TR-ND	4,000	41.70/M	63445-2
			Brass			X	—	X	A23262CT-ND	9.43	39.28	62.84	A23262TR-ND	4,000	47.13/M	63445-4
Reversible Flag - Straight End Feed - Insulation Support																
7	14-18	.016	Brass	.250 x .032	.090 - .130	X	—	X	A27675CT-ND	7.49	31.23	49.96	A27675TR-ND	6,500	37.48/M	62048-1
			Tin Plated Brass		.090 - .130	X	—	X	A27676CT-ND	8.54	35.58	56.92	A27676TR-ND	6,500	42.70/M	62048-2
			Tin Plated Brass		.170 - .220	X	—	X	A27677CT-ND	12.34	51.40	82.24	A27677TR-ND	8,000	61.68/M	60764-2
.250" Series - Receptacles for Hermetic Header Tabs																
Straight - Insulation Support																
1	14-18	.018	Tin Plated Brass	.250 x .032	.120 - .170	X	—	X	A27657CT-ND§	9.43	39.30	62.88	A27657TR-ND§	11,000	42.45/M	41832
	10-14		Tin Plated Brass		.150 - .200	X	—	X	A27659CT-ND§	11.89	49.55	79.28	A27659TR-ND§	8,000	59.46/M	42437-2
	10-14		Tin Plated Phos. Brz.		.150 - .200	X	—	X	A27660CT-ND◊	13.22	55.06	88.10	A27660TR-ND◊	8,000	66.08/M	42437-5
Flag Insulation Support																
3	12-18	.018	Tin Plated Phos. Brz.	.250 x .032	.110 - .210	X	—	X	A27661CT-ND◊	13.96	58.16	93.06	A27661TR-ND◊	4,000	69.80/M	41800
			Brass			X	—	X	A27662CT-ND§	11.47	47.80	76.48	A27662TR-ND§	4,000	57.36/M	41801
			Tin Plated Brass			X	—	X	A27663CT-ND§	10.72	44.68	71.48	A27663TR-ND§	4,000	53.61/M	41802
			Tin Phosphor Brz.			X	—	X	A27664CT-ND≠	17.98	74.91	119.86	A27664TR-ND≠	4,000	89.90/M	60274-2
	10-12	.018	Tin Plated Brass	.250 x .032	.110 - .210	X	—	X	A27665CT-ND§	12.22	50.90	81.44	A27665TR-ND§	3,500	71.26/M	60851-1
			Silver Plated Brass			X	—	X	A27666CT-ND§	37.53	156.39	250.22	A27666TR-ND§	3,500	218.95/M	60851-2
			Silver Plate Phos. Brz.			X	—	X	A27667CT-ND◊	30.69	127.88	204.60	A27667TR-ND◊	3,500	179.03/M	42563-6
			Nickel Plated Steel			—	—	—	A27668CT-ND	17.66	73.56	117.70	A27668TR-ND	3,500	102.99/M	42563-9
			Tin Plated Phos. Brz.			X	—	X	A27669CT-ND◊	14.61	60.86	97.38	A27669TR-ND◊	3,500	85.21/M	42563-8
Reversible Flag - Side Feed - Insulation Support																
6	12-16	.018	Tin Plated Phos. Brz.	.250 x .032	.130 - .170	X	—	X	A27678CT-ND◊	15.96	66.50	106.40	A27678TR-ND◊	2,500	93.10/M	61188-1
Flag Non-Insulation Support																
8	12-18	.018	Tin Plate Phos. Brz.	.250 x .032	—	X	—	X	A27670CT-ND#	13.67	56.98	91.16	A27670TR-ND#	4,000	68.37/M	62056-6
	12-18		Tin Plated Brass		—	X	—	X	A27671CT-ND#	10.51	43.80	70.08	A27671TR-ND#	4,000	52.56/M	62056-3
	12-18		Tin Plated Brass		—	X	—	X	A27672CT-ND*	10.51	43.80	70.08	A27672TR-ND*	4,000	52.56/M	62056-4
	10-12		Tin Plated Brass		—	X	—	X	A27673CT-ND†	11.26	46.93	75.08	A27673TR-ND†	4,000	56.31/M	62057-3
	10-12		Tin Plated Brass		—	X	—	X	A27674CT-ND††	19.61	81.73	130.76	A27674TR-ND††	4,000	98.07/M	62022-2
.205" Series																
Insulation Support																
1	18-22	.012	Tin Plated Brass	.205 x .020	.085 - .125	X	—	X	A27681CT-ND	7.55	31.46	50.34	A27681TR-ND	20,000	33.98/M	42198-2
	14-18	.016	Tin Plated Brass	.205 x .032	.130 - .180	X	—	X	A27682CT-ND	7.82	32.59	52.14	A27682TR-ND	8,000	39.11/M	42233-2
Non-Insulation Support																
2	18-22	.012	Tin Plated Brass	.205 x .020	—	X	—	X	A27683CT-NDΔ	10.14	42.26	67.62	A27683TR-NDΔ	20,000	45.65/M	42197-2
Flag Insulation Support																
3	16-20	.012	Brass	.205 x .020	.110 - .170	X	—	X	A27684CT-ND	8.55	35.64	57.02	A27684TR-ND	5,000	42.77/M	42199-1
	16-20	.012	Tin Plated Brass	.205 x .020		X	—	X	A27685CT-ND	10.68	44.50	71.20	A27685TR-ND	5,000	53.40/M	42199-2
	14-20	.016	Brass	.205 x .032		X	—	X	A27686CT-ND	9.07	37.80	60.48	A27686TR-ND	5,000	45.36/M	42234-1
	14-20	.016	Tin Plated Brass	.205 x .032		X	—	X	A27687CT-ND	9.07	37.80	60.48	A27687TR-ND	5,000	45.36/M	42234-2
	14-20	.016	Tin Plated Brass	.205 x .020		X	—	X	A27688CT-ND	9.52	39.68	63.48	A27688TR-ND	5,000	47.61/M	62354-1
.187" Series																
Insulation Support																
1	20-24	.012	Tin Plated Brass	.187 x .020	.040 - .070	X‡	—	X‡	A27695CT-ND	6.74	28.06	44.90	A27695TR-ND	20,000	30.31/M	60573-1
			Brass		.040 - .070	X‡	—	X‡	A27696CT-ND	7.51	31.29	50.06	A27696TR-ND	20,000	33.80/M	60573-2
			Tin Plated Brass		.060 - .110	X‡	—	X‡	A27698CT-ND	6.74	28.06	44.90	A27698TR-ND	20,000	30.31/M	62138-1
			Brass		.060 - .110	X‡	—	X‡	A27699CT-ND	6.74	28.06	44.90	A27699TR-ND	20,000	30.31/M	62138-2

‡ UL and CSA certified for 22-20 AWG   § Recommended for external use only   ◊ Internal or external use   ≠ Left hand for internal or external use   # Right hand, reverse reel   * Left Hand   † Right Hand
†† Right or left hand. Carrier is in front to facilitate thru splicing   Δ No slots

(Continued)

Premier and Commercial Fastons *(Cont.)*

Fig.	AWG	Stock Thick-ness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	CSA	Digi-Key Part No.	Cut Tape Pricing 100	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	AMP Part No.
1	20-24	.012	Tin Plated Brass	.187 x .032	.040 - .070	X‡	—	X‡	A27697CT-ND	7.51	31.29	50.06	A27697TR-ND	20,000	33.80/M	62181-1
	16-20		Brass	.187 x .020	.090 - .130	X	—	X	A27700CT-ND	6.41	26.69	42.70	A27700TR-ND	20,000	28.83/M	42452-1
	16-20		Tin Plated Brass	.187 x .020	.090 - .130	X	—	X	A24732CT-ND	—	—	42.70	A24732TR-ND	20,000	28.83/M	42452-2
	16-20		Brass	.187 x .032	.090 - .130	X	—	X	A27702CT-ND	7.10	29.56	47.30	A27702TR-ND	20,000	31.93/M	61758-1
	16-20		Brass	.187 x .020	.060 - .110	X	—	X	A27703CT-ND	7.51	31.29	50.06	A27703TR-ND	20,000	33.80/M	62137-1
	16-20		Tin Plated Brass	.187 x .020	.060 - .110	X	—	X	A27704CT-ND	7.51	31.29	50.06	A27704TR-ND	20,000	33.80/M	62137-2
1	16-18 or (2)18	.012	Brass	.187 x .020	(2).105 Max.	—	—	X	A27705CT-ND	7.51	31.29	50.06	A27705TR-ND	18,000	33.80/M	60487-1
			Tin Plated Brass	.187 x .020		—	—	X	A27706CT-ND	6.74	28.06	44.90	A27706TR-ND	18,000	30.31/M	60487-2
			Tin Plated Brass	.187 x .015		—	—	X	A27707CT-ND	7.86	32.74	52.38	A27707TR-ND	18,000	35.36/M	61945-1
Non-Insulation Support																
2	16-20	.012	Tin Plated Brass	.187 x .020	—	X	—	X	A27708CT-ND	8.74	36.41	58.26	A27708TR-ND	12,000	39.33/M	42373-2
			Nickel Plated Steel	.187 x .020	—	—	X	—	A27709CT-ND	12.09	50.36	80.58	A27709TR-ND	12,000	54.40/M	42373-3
			Tin Plated Brass	.187 x .015	—	—	—	X	A27710CT-ND	12.99	54.11	86.58	A27710TR-ND	12,000	58.45/M	42374-2
Flag Insulation Support																
3	16-20	.012	Brass	.187 x .020	.110 - .170	X	—	X	A27711CT-ND	7.52	31.31	50.10	A27711TR-ND	6,000	37.58/M	42486-1
			Tin Plated Brass	.187 x .020	.110 - .170	X	—	X	A27712CT-ND	7.52	31.31	50.10	A27712TR-ND	6,000	37.58/M	42486-2
			Tin Plated Brass	.187 x .032	.110 - .170	X	—	X	A27713CT-ND	7.52	31.31	50.10	A27713TR-ND	6,000	37.58/M	62591-1
			Brass	.187 x .020	.170 - .225	X	—	X	A27714CT-ND	8.55	35.64	57.02	A27714TR-ND	5,000	42.77/M	62817-1

‡ UL and CSA certified for 22-20 AWG § Recommended for external use only ◊ Internal or external use ≠ Left hand for internal or external use # Right hand, reverse reel * Left Hand † Right Hand
†† Right or left hand. Carrier is in front to facilitate thru splicing Δ No slots

Premier - Loose Piece

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insulation Diameter (Inch)	UL	RU	CSA	Digi-Key Part No.	Pricing 10	Pricing 100	AMP Part No.
.250" Series - Insulation Support												
1	18-22	.016	Tin Plated Brass	.250 x .032	.090 - .130	X	—	X	A24736-ND	3.01	26.45	60878-2
	14-18	.018			.060 - .110	X	—	X	A24744-ND	1.92	16.86	41729
	10-14	.018			.150 - .200	X	—	X	A24737-ND	3.01	26.45	61227-1
.187" Series - Insulation Support												
1	16-20	.012	Tin Plated Brass	.187 x .020	.090 - .130	X	—	X	A24732-ND	2.66	23.43	42566-2

Commercial

UL CSA

Fig.	AWG	Stock Thick-ness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Cut Strip Pricing 1,000	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	AMP Part No.
.250" Series - Insulation Support													
1	16-20, (2)23 or (2)20	.016	Brass	.250 x .032	.100 - .140 or (2).060 Max.	A27679CT-ND§	8.73	36.36	58.18	A27679TR-ND§	12,000	39.28/M	60384-1
	14-18 or (2)17	.016	Tin Plated Brass	.250 x .032	.120 - .170 or (2).060 Max.	A27680CT-ND§	10.95	45.63	73.00	A27680TR-ND§	12,000	49.28/M	60385-2
Flag													
2	20-24	.016	Tin Plated Brass	.250 x .032	.048 - .078	A27646CT-ND*	17.73	73.89	118.22	A27646TR-ND*	3,000	103.45/M	60736-2
	16-22		Brass		.090 - .140	A27647CT-ND	7.37	30.70	49.12	A27647TR-ND	3,000	42.98/M	62418-1
	16-22		Tin Plated Brass		.090 - .140	A27648CT-ND	9.42	39.24	62.78	—	3,000	—	62418-2
	14-18		Brass		.090 - .140	A27649CT-ND	9.21	38.38	61.40	A27649TR-ND	3,000	53.73/M	60290-1
	14-18		Tin Plated Brass		.090 - .140	A27650CT-ND	11.36	48.33	83.00	A27650TR-ND	3,000	73.78/M	60290-2
.187" Series - Insulation Support													
1	14-18	.014	Brass	.187 x .020	.150 - .190	A27730CT-ND	6.88	28.65	45.84	A27730TR-ND	12,000	30.95/M	62016-1
			Tin Plated Brass			A27731CT-ND	9.50	40.39	60.12	A27731TR-ND	12,000	41.63/M	62016-2
	14-18 or (2)16	.014	Brass	.187 x .020	.180 - .230 or (2).110 Max.	A27732CT-ND	7.41	30.86	49.38	A27732TR-ND	12,500	33.34/M	60742-1
			Tin Plated Brass	.187 x .020		A27733CT-ND	7.41	30.86	49.38	A27733TR-ND	12,500	33.34/M	60742-2
	14-18	.014	Brass	.187 x .032	.180 - .230	A29943CT-ND	7.41	33.95	61.73	A29943TR-ND	12,500	33.34/M	63596-1
Receptacle and Tab Combination													
3	16-20	.014	Brass	.187 x .032	.090 - .130	A29944CT-ND	14.09	64.60	117.45	A29944TR-ND	3,500	93.96/M	63646-1
	16-20	.020 (tab) .014 (recept.)	Tin Plated Brass	.187 x .020	.090 - .130	A27738CT-ND	14.48	60.35	96.56	A27738TR-ND	3,500	84.50/M	62026-1
			Brass	.187 x .020	.090 - .130	A27739CT-ND	12.82	53.40	85.44	A27739TR-ND	3,500	74.76/M	62026-2
			Tin Plated Brass	.187 x .020	.060 - .110	A27740CT-ND	14.35	59.80	95.68	A27740TR-ND	3,500	83.72/M	62139-1
Flag													
4	16-20	.012	Brass	.187 x .020	.090 - .130	A27734CT-ND	7.75	32.28	51.64	A27734TR-ND	4,000	38.73/M	60755-1
	16-20		Tin Plated Brass		.090 - .130	A27735CT-ND	10.20	42.49	67.98	A27735TR-ND	4,000	50.99/M	60755-2
	18-22		Brass		.060 - .070	A27736CT-ND	18.58	77.40	123.84	A27736TR-ND	4,000	92.88/M	62085-1
	18-22		Tin Plated Brass		.060 - .070	A27737CT-ND	14.04	58.51	93.62	A27737TR-ND	4,000	70.22/M	62085-2
.110" Series													
Insulation Support													
5	22-24	.010	Pre-Tin Brass	.110 x .020	.040 - .060	A27745CT-ND†	6.28	26.18	41.88	A27745TR-ND†	20,000	28.27/M	42067-1
				.110 x .016		A27746CT-ND	6.28	26.18	41.88	A27746TR-ND	15,000	28.27/M	42415-1
	18-22	.010	Brass/Tin	.110 x .110	.060 - .100	A29945CT-ND	6.60	30.25	55.00	A29945TR-ND	15,000	29.70/M	60415-1
			Brass	.110 x .020	.060 - .100	A24745CT-ND	6.01	25.04	40.06	A24745TR-ND	15,000	27.05/M	42068
			Pre-Tin Brass	.110 x .020	.060 - .100	A27747CT-ND	5.06	21.06	33.70	A27747TR-ND	15,000	22.75/M	42068-1
			Pre-Tin Brass	.110 x .016	.060 - .100	A27748CT-ND	6.28	26.18	41.88	A27748TR-ND	15,000	28.27/M	60118-1
			Pre-Tin Brass	.110 x .032	.060 - .100	A27749CT-ND	5.82	24.24	38.78	A27749TR-ND	15,000	26.18/M	60197-1
			Pre-Tin Brass	.110 x .032	.060 - .100	A27750CT-ND	6.60	27.50	44.00	A27750TR-ND	15,000	29.70/M	60577-1
			Pre-Tin Brass	.110 x .020	.090 - .130	A27751CT-ND	5.84	24.33	38.92	A27751TR-ND	15,000	26.28/M	62094-1
			Pre-Tin Brass	.110 x .020	.120 - .140	A27752CT-ND	6.28	26.18	41.88	A27752TR-ND	12,000	28.27/M	60729-1
			Pre-Tin Brass	.110 x .025	.120 - .140	A27753CT-ND	7.85	32.71	52.34	A27753TR-ND	12,000	35.33/M	61158-1
	16-20	.010	Pre-Tin Brass	.110 x .020	.120 - .140	A27754CT-ND	5.33	22.20	35.52	A27754TR-ND	15,000	23.98/M	61400-1
			Pre-Tin Brass	.110 x .020	.060 - .100	A27755CT-ND	7.34	30.58	48.92	A27755TR-ND	15,000	33.03/M	61408-1
			Pre-Tin Brass	.110 x .032	.120 - .140	A27756CT-ND	5.95	24.80	39.68	A27756TR-ND	9,000	26.79/M	62050-1
			Tin Plated Brass	.110 x .020	.150 - .170	A27757CT-ND	6.71	27.95	44.72	A27757TR-ND	10,000	30.19/M	62191-1
Non-Insulation Support													
6	18-20 or (2)20	.010	Pre-Tin Brass	.110 x .020	—	A27758CT-ND	5.79	24.13	38.60	A27758TR-ND	25,000	24.13/M	42399-1
	16-20			.110 x .016	—	A27759CT-ND	5.86	24.40	39.04	A27759TR-ND	20,000	26.36/M	61457-1
	14-18			.110 x .020	—	A27760CT-ND	7.55	31.46	50.34	A27760TR-ND	6,000	37.76/M	62852-1
Flag Insulation Support													
7	18-22	.012	Tin Plated Brass	.110 x .020	.060 - .100	A27761CT-ND	7.95	33.13	53.00	A27761TR-ND	12,000	35.78/M	61070-1
		.012	Brass	.110 x .020		A27762CT-ND	7.06	29.43	47.08	A27762TR-ND	12,000	31.78/M	61070-2
		.010	Pre-Tin Brass	.110 x .020		A27763CT-ND	7.61	31.69	50.70	A27763TR-ND	12,000	34.23/M	61481-1
		.010	Pre-Tin Brass	.110 x .032		A27764CT-ND	7.61	31.69	50.70	A27764TR-ND	12,000	34.23/M	62336-1
8	18-22	.010	Pre-Tin Brass	.110 x .020	.065 - .100	A27765CT-ND	7.95	33.14	53.02	A27765TR-ND	12,000	35.79/M	61372-1
				.110 x .016		A27766CT-ND‡	9.56	39.81	63.70	A27766TR-ND‡	8,000	47.78/M	61459-1
				.110 x .025		A27767CT-ND‡	7.64	31.84	50.94	A27767TR-ND‡	12,000	34.39/M	61530-1
Flag Non-Insulation Support													
9	16-22	.012	Brass	.110 x .020	—	A27768CT-NDΔ	9.16	38.16	61.06	A27768TR-NDΔ	15,000	41.22/M	60991-1
		.010	Pre-Tin Brass		—	A27769CT-NDΔ	6.79	28.86	42.96	A27769TR-NDΔ	15,000	27.54/M	61549-1
		.010	Pre-Tin Brass		—	A27770CT-NDΔ	6.29	26.23	41.96	A27770TR-NDΔ	15,000	28.33/M	62321-1

§ AMPLIVAR fastons - use with magnet wire * UL listed and CSA certified for 20-22 AWG wire only † UL listed for 22 AWG wire only ‡ CSA certified only Δ UL listed and CSA certified for 18-22 AWG only

Fig. 1

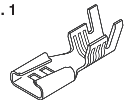

Fig. 2

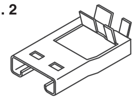

Fig. 3

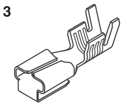

Fig. 4

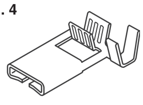

Fig. 5

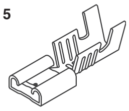

Fig. 6

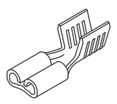

Fig. 7

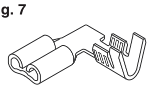

Fig. 8

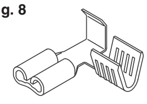

Fig. 9

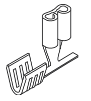

tyco Electronics AMP

Moldable Line FASTONS

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insul. Dia. (Inch)	Digi-Key Part No.	Cut Strip Pricing			Digi-Key Part No.	Tape & Reel		AMP Part No.
							100	500	1,000		Size	Pricing	
.250” Series													
Insulation Support													
1	18-22	.016	Brass	.250 x .032	.090-.130	A27651CT-ND	6.62	27.59	44.14	A27651TR-ND	10,000	29.80/M	63127-1
	14-18		Brass		.120-.170	A27652CT-ND	5.15	21.46	34.34	A27652TR-ND	10,000	23.18/M	60650-1
	14-18		Tin Plated Brass		.120-.170	A27653CT-ND	6.83	28.46	45.54	A27653TR-ND	10,000	30.74/M	60650-2
Non-Insulation Support													
2	14-18	.016	Brass	.250 x .032	—	A27654CT-ND	6.95	28.94	46.30	A27654TR-ND	6,000	34.73/M	60938-1
			Tin Plated Brass		—	A27655CT-ND	9.13	38.05	60.88	A27655TR-ND	6,000	45.66/M	60938-2
Flag-Insulation Support													
3	12-18	.016	Brass	.250 x .032	.110-.210	A27656CT-ND	7.21	30.03	48.04	A27656TR-ND	4,000	36.03/M	60641-1
.205” Series													
Flag-Insulation Support													
3	14-20	.016	Brass	.032	.100-.170	A27693CT-ND	10.93	45.54	72.86	A27693TR-ND	5,000	54.65/M	60195-1
			Tin Plated Brass			A27694CT-ND	12.42	51.76	82.82	A27694TR-ND	5,000	62.12/M	60195-2
.187” Series													
1	16-20	.012	Brass	.020	.090-.130	A27741CT-ND	3.85	16.05	25.68	A27741TR-ND	20,000	17.34/M	60214-1
			Tin Plated Brass			A27742CT-ND	6.86	28.60	45.76	A27742TR-ND	20,000	30.89/M	60214-2
Flag-Insulation Support - Economy Line													
3	16-20	.012	Brass	.020	.110-.170	A27743CT-ND	6.96	28.99	46.38	A27743TR-ND	6,000	34.79/M	61029-1
			Tin Plated Brass			A27744CT-ND	6.12	25.49	40.78	A27744TR-ND	6,000	30.59/M	61029-2

Fig. 1

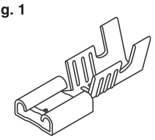

Fig. 2

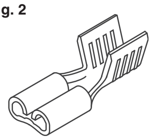

Fig. 3

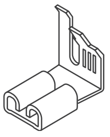

.250” Series FASTIN-FASTON Connectors

Fig. 1

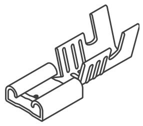

Fig. 2

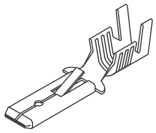

Fig. 3

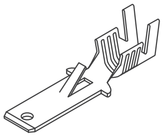

Fig. 4

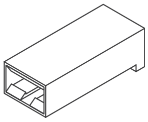

Fig. 5

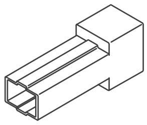

Fig. 6

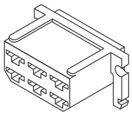

Fig. 7

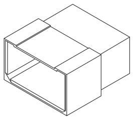

Receptacles

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Fits Tab Size (Inch)	Insulaton Diameter (Inch)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AMP Part No.
							100	500	1,000		Size	Pricing	
Use with Single Circuit Connectors													
1	14-18	.016	Brass	.032	.120-.160	A27926CT-ND	10.88	45.33	72.52	A27926TR-ND	11,000	48.96/M	42281-1
	14-18		Tin Plated Brass		.120-.160	A27927CT-ND	10.88	45.33	72.52	A27927TR-ND	11,000	48.96/M	42281-2
	14-18		Brass		.120-.160	A27928CT-ND*	8.43	35.11	56.18	A27928TR-ND*	10,000	37.93/M	60634-1
	12-16 or (2)16		Brass		.160-.220 or (2).130 Max.	A27929CT-ND	11.27	46.95	75.12	A27929TR-ND	9,000	56.34/M	60249-1
	12-16 or (2)16		Tin Plated Brass		.160-.220 or (2).130 Max.	A27930CT-ND	11.45	47.70	76.32	A27930TR-ND	9,000	57.24/M	60249-2
Use with Multiple Circuit Connectors													
1	18-22	.012	Tin Plated Brass	.032	.085-.125	A27933CT-ND	10.88	45.33	72.52	A27933TR-ND	12,000	48.96/M	60295-2
	18-22		Tin Plated Brass		.060-.100	A27934CT-ND	12.32	51.35	82.16	A27934TR-ND	12,000	55.46/M	60413-1
	14-18		Brass		.120-.160	A27935CT-ND	10.88	45.33	72.52	A27935TR-ND	12,000	48.96/M	42100-1
	14-18		Tin Plated Brass		.120-.160	A27936CT-ND	10.88	45.33	72.52	A27936TR-ND	12,000	48.96/M	42100-2
	12-16 or (2)16		Tin Plated Brass		.160-.210 or (2).130 Max.	A27937CT-ND	12.61	52.54	84.06	A27937TR-ND	10,000	56.75/M	60253-2

* No front slot

Tabs

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Tab Thickness (Inch)	Insulaton Diameter (Inch)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AMP Part No.
							100	500	1,000		Size	Pricing	
Use with Single or Multiple Circuit Connectors													
2	18-22	.015	Brass	.032	.085-.125	A27920CT-ND	16.31	67.98	108.76	A27920TR-ND	9,000	81.57/M	62553-1
	18-22		Tin Plated Brass		.085-.125	A27921CT-ND	13.11	54.63	87.40	A27921TR-ND	9,000	65.55/M	62553-3
	14-18		Brass		.120-.160	A27922CT-ND	9.14	38.06	60.90	A27922TR-ND	9,000	45.68/M	42460-1
	14-18		Tin Plated Brass		.120-.160	A27923CT-ND	8.91	37.13	59.40	A27923TR-ND	9,000	44.55/M	42460-2
	10-14		Tin Plated Brass		.120-.170	A27925CT-ND	10.99	45.79	73.26	A27925TR-ND	9,000	54.95/M	60701-1
3	14-18	.015	Tin Plated Brass	.016	.120-.145	A27924CT-ND†	12.98	54.08	86.52	A27924TR-ND†	8,000	64.89/M	42580-2

† Used for back-to-back with a combined thickness of .032”

Nylon Housings - UL94 V-2

Fig.	Housing Type	Color	Digi-Key Part No.	Pricing				Amp Part No.
				10	100	500	1,000	
Single Circuit Tab Housings								
4	Receptacle	Natural	A27915-ND	1.82	16.02	68.12	101.40	480054-3
	Receptacle	Black	A27917-ND	2.93	25.75	109.53	163.04	480054-4
	Receptacle	Red	A27918-ND	2.87	25.29	107.55	160.10	480054-5
5	Tab	Natural	A27916-ND	1.86	16.35	69.55	103.53	480053-3
	Tab	Red	A27919-ND	2.87	25.29	107.55	160.10	480053-5
Six Circuit Tab Housings								
6	Receptacle	Natural	A27931-ND	10.19	89.69	381.49	567.86	480003-5
7	Tab	Natural	A27932-ND	10.45	91.93	390.98	582.00	480004-5

Water Valve Coil Connector

This connector is designed to mate with the Appliance Industry's Standard Water Valve Coil. The connector is suitable for such applications as washing machine mixing valves, dishwasher fill valves and refrigerators with automatic ice makers.

Specifications: • Material: Nylon • UL 94 Flammability Rating: V-2

Features: • Prevents terminal back-out of housing through plastic retention feature

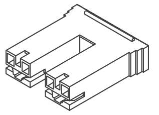

Color	Digi-Key Part No.	Pricing				AMP Part No.
		10	100	500	1,000	
Natural	A27938-ND	2.52	22.20	94.42	140.56	520935-1
Red	A27939-ND	2.86	25.19	107.16	159.51	520935-2

FASTON Tabs

Fig.	Stud Dia. (Inch)	Stock Thickness (Inch)	Material/Finish and Description	RU	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
.250" Series (dimple - both sides)											
1	—	.032	Steel/Nickel	X	X	A29946-ND	3.30	29.03	123.48	183.81	42559-1
	.177		Brass	—	—	A27857-ND	1.28	11.25	47.83	71.19	63038-2
2	.130	.032	Tin Plated Brass	X	X	A27858-ND	1.68	14.81	62.97	93.74	42822-2
	.145		Tin Plated Brass	X	X	A27859-ND	1.68	14.81	62.97	93.74	42822-4
	.171		Brass	X	X	A27860-ND	1.65	14.50	61.67	91.81	60465-1
	.171		Tin Plated Brass	X	X	A27861-ND	1.90	16.71	71.08	105.81	60465-2
	.197		Tin Plated Brass	X	X	A27863-ND	1.90	16.71	71.08	105.81	61499-1
	.203		Tin Plated Brass	X	X	A27862-ND	1.81	15.92	67.73	100.82	61365-1
3	.097	.032	Brass	X	X	A27864-ND	4.26	37.47	159.35	237.20	41339
	.130		Tin Plated Brass	X	X	A27865-ND	4.00	35.24	149.86	223.08	42095-1
	.130		Tin Plated Brass	X	X	A27866-ND	1.88	16.58	70.50	104.95	42117-2
	.171		Brass	X	X	A27867-ND	2.25	19.81	84.25	125.40	42214-1
	.171		Tin Plated Brass	X	X	A27868-ND	2.10	18.50	78.67	117.10	42214-2
4	.125	.032	Brass	X	X	A27869-ND	1.86	16.35	69.55	103.53	41398
5	.130	.032	Tin Plated Brass	X	X	A27870-ND	1.29	11.36	48.30	71.90	42506-2
6	.097	.032	Tin Plated Brass, 1 Pair	—	—	A27882-ND	1.85	16.26	69.17	102.96	60080-2
	.130		Brass, 1 Pair	X	X	A27872-ND	1.63	14.30	60.82	90.54	41290
	.130		Brass, 2 Pair	X	X	A27873-ND	3.65	32.08	136.45	203.11	41291
	.130		Brass, 3 Pair	X	X	A27874-ND	4.46	39.23	166.85	248.37	41292
	.130		Brass, 4 Pair	X	X	A27875-ND	11.19	98.48	418.87	623.51	41370
	.130	.032	Tin Plated Brass, 1 Pair	X	X	A27876-ND	1.85	16.26	69.17	102.96	41480
	.130		Tin Plated Brass, 2 Pair	X	X	A27877-ND	3.50	30.78	130.91	194.86	41481
	.130		Tin Plated Brass, 3 Pair	X	X	A27878-ND	10.29	90.55	385.14	573.30	41482
	.171		Brass, 1 Pair	X	X	A27880-ND	1.63	14.30	60.82	90.54	41619
	.171		Tin Plated Brass, 1 Pair	X	X	A27881-ND	4.62	40.67	173.00	257.52	42802-1
7	.130	.032	Brass	X	X	A27871-ND	4.38	38.55	163.96	244.06	62261-1
Cut Tape and Tape & Reel											
6	.130	.032	Tin Plated Brass	X	X	A27879CT-ND A27879TR-ND	—	36.43	151.78 728.52/3,000	242.84	42115-4
.187" Series											
3	.145	.020	Tin Plated Brass	X	X	A27894-ND	1.21	10.68	45.43	67.63	61407-3
6	.130	.020	Tin Plated Brass	X	X	A27893-ND	1.79	15.74	66.94	99.65	61951-1
	.130		Tin Plated Brass	X	X	A27895-ND†	1.01	8.87	37.71	56.14	61761-2
8	.145	.020	Brass	X	X	A27896-ND†	1.10	9.72	41.33	61.52	62576-1
	.171		Tin Plated Brass	X	X	A27897-ND§	.96	8.42	35.82	53.31	61664-1

† Bent 45° § Bent 90°

Fig. 1

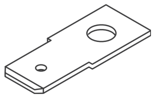

Fig. 2

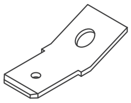

Fig. 3

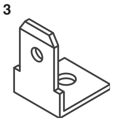

Fig. 4

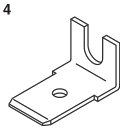

Fig. 5

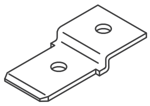

Fig. 6

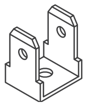

Fig. 7

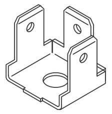

Fig. 8

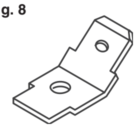

Wire Crimp and Printed Circuit Board Tabs

Fig. 1

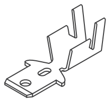

Fig. 2

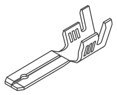

Fig. 3

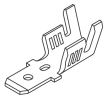

Fig. 4

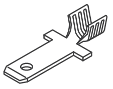

Fig. 5

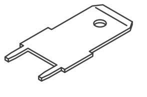

Fig. 6

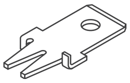

Fig. 7

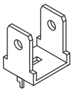

Fig. 8

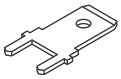

Fig. 9

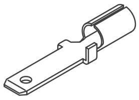

Fig. 10

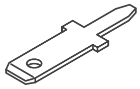

Wire Crimp

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Tab Thickness (Inch)	Insulation Diameter (Inch)	UL	RU	CSA	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	AMP Part No.
.250" Series																
1	14-18	.032	Brass	.032	.120-.170	X	—	X	A27887CT-ND	8.03	33.46	53.54	A27887TR-ND	8,000	40.16/M	41411
	14-18		Tin Plated Brass			X	—	X	A27888CT-ND	7.46	31.06	49.70	A27888TR-ND	8,000	37.28/M	41412
2	18-22	.016	Brass	.032	.080-.120	—	X	X	A27883CT-ND	17.35	72.28	115.64	A27883TR-ND	3,500	101.19/M	42475-3
	18-22	.016	Tin Plated Brass		.080-.120	—	X	X	A27884CT-ND	11.12	46.34	74.14	A27884TR-ND	3,500	64.88/M	42475-4
	14-18	.016	Tin Plated Brass		.110-.150	—	X	X	A24741CT-ND	12.26	51.09	81.74	A24741TR-ND	3,000	71.53/M	42474-2
	14-18	.016	Brass		.110-.150	—	X	X	A27885CT-ND	8.67	36.14	57.82	A27885TR-ND	3,000	50.60/M	42474-3
	14-18	.016	Tin Plated Brass		.110-150	—	X	X	A27886CT-ND	11.12	46.34	74.14	A27886TR-ND	3,000	64.88/M	42474-4
	12-14	.016	Tin Plated Brass		.110-.170	—	X	X	A27889CT-ND	11.36	47.34	75.74	A27889TR-ND	3,000	66.28/M	61281-3
	18-22	.020	Tin Plated Brass		.070 - .130	—	—	X	A29950CT-ND	10.43	47.78	86.88	A29950TR-ND	4,500	52.13/M	63138-1
.187" Series																
3	18-22	.020	Tin Plated Brass	.020	.080-.120	X	—	X	A27898CT-ND	8.36	34.84	55.74	A27898TR-ND	5,000	41.81/M	42490-3
	18-22		Brass	.020	.080-.120	X	—	X	A27899CT-ND	9.21	38.38	61.40	A27899TR-ND	5,000	46.05/M	42490-4
	14-18		Brass	.020	.120-.150	X	—	X	A27900CT-ND	8.46	35.24	56.38	A27900TR-ND	3,500	56.38/M	60850-1
	14-18		Tin Plated Brass	.020	.120-.150	X	—	X	A27901CT-ND	11.36	47.34	75.74	A27901TR-ND	3,500	66.28/M	60850-2
	14-18		Tin Plated Brass	.032	.120-.150	X	—	X	A27902CT-ND *	12.47	51.96	83.14	A27902TR-ND *	3,500	72.75/M	61687-2
.110" Series																
4	18-22	.020	Pre-Tin Brass	.020	—	X	—	X	A24783CT-ND	8.84	36.85	58.96	A24783TR-ND	10,000	39.80/M	62122-1
	18-22	.020	Pre-Tin Brass	.020	—	X	—	X	A24784CT-ND	11.00	45.85	73.36	A24784TR-ND	10,000	49.52/M	62384-1
	19-23	.020	Tin Plated Brass	.032	—	—	—	X	A29949CT-ND	13.76	63.09	114.70	A29949TR-ND	7,000	68.82/M	63497-1

* Premilled dual stock thickness

Printed Circuit Board Tabs

Fig.	Fits Tab Size (Inch)	Material & Finish	PCB Hole Dia. (Inch)	PCB Thickness (Inch)	RU	CSA	Digi-Key Part No.	Loose Piece Pricing 10	100	AMP Part No.	Digi-Key Part No.	Cut Tape Pricing 1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	AMP Part No.
.250" Series																
5	.250 x .032	Tin Plated Brass	.055	.175	X	X	—	—	—	—	A29947CT-ND	68.75	A29947TR-ND	6,000	41.25/M	63650-1
	.250 x .032		.055	.125	X	X	A24742-ND	.79	6.92	62409-1	A24742CT-ND	53.48	A24742TR-ND	6,000	32.09/M	62650-1
	.187 x .020		.052	.125	X	X	—	—	—	—	A29948CT-ND	144.70	—	—	—	63603-1
6	.250 x .032	Tin Plated Brass	.100	.062	X	X	A24743-ND	2.84	24.99	63067-1	A24743CT-ND	90.18	A24743TR-ND	4,000	54.11/M	63066-1
.187" Series																
7	.187 x .020	Pre-Tin Brass	.137	.062	X	X	—	—	—	—	A24734CT-ND	64.28	A24734TR-ND	10,000	43.39/M	62221-1
8	.187 x .032	Tin-Plated Brass	.055	.125	X	X	—	—	—	—	A24735CT-ND	47.64	A24735TR-ND	10,000	32.16/M	63525-1
.110" Series																
9	.110 x .020	Tin Brass	.057	.032 -.093	X	X	A24840-ND	2.18	19.16	61134-3	—	—	—	—	—	—
10			.046	.062	X	X	—	—	—	—	A24747CT-ND	58.96	A24747TR-ND	10,000	39.80/M	62395-1

(Continued)

tyco Electronics AMP

FASTON Tabs *(Cont.)*

High Temperature Tabs (343° to 371°C)

AWG	Material & Finish	Tab Thickness (Inch)	Digi-Key Part No.	Cut Tape Pricing 100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	AMP Part No.
.312" Series										
15-20	Steel Nickel Plated	.032	A27904CT-ND	14.92	62.15	111.87	A27904TR-ND	2,000	99.44/M	63300-1
.250" Series										
15-20	Steel Nickel Plated	.032	A27905CT-ND†	14.13	58.88	105.98	A27905TR-ND†	2,000	94.20/M	63301-1

† Dimple instead of a hole

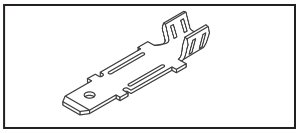

Tab Adapters

Fig.	Dual Thickness (Inch)	Material & Finish	Fits Tab (Inch)	UL	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
.250" Series Tab Adapters											
1	.018 - .032	Brass	.032	X	—	A27890-ND	2.65	23.29	99.08	147.48	61765-1
		Tin Plated Brass		X	—	A27891-ND	2.00	17.60	74.85	111.42	61765-2
2	—	Tin Plated Brass	.032	—	—	A27892-ND	4.77	42.00	178.64	265.92	61810-2
.187" Series Tab Adapters											
1	.013 x.020	Tin Plated Brass	.020	X	X	A27903-ND*	1.60	14.06	59.81	89.04	61045-2

* Premilled dual stock thickness

Fig. 1

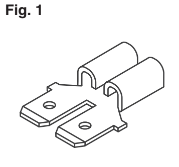

Fig. 2

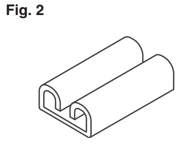

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tyco Electronics AMP

Positive Lock Mark I and II

6/6 Nylon Housing - UL94 V-2

Fig.	Housing Type	Color	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
.250" Mark I - 1 Position								
1	Receptacle	Black	A24749-ND*	1.70	14.94	63.55	94.59	520961-1

* Press-to-release with secondary lock

Fig. 1

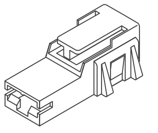

Fig. 2

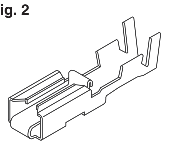

Fig. 3

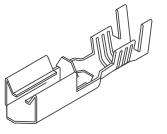

Receptacles

Fig.	AWG	Stock Thickness (Inch)	Material & Finish	Tab Thickness (Inch)	Insulaton Diameter (Inch)	Digi-Key Part No.	Pricing 100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	AMP Part No.
.250" Series - Mark I													
2	14-18	.016	Brass/Tin	—	.095-.125	A24750CT-ND	23.41	97.55	175.59	A24750TR-ND	1,500	156.08/M	154718-3
	11-13			—	.135-.170	A24751CT-ND	24.35	101.44	182.59	A24751TR-ND	1,500	162.30/M	154717-3
.250" Series - Mark II													
3	18-22	—	Brass/Tin	.032	.060-.100	A24752CT-ND	9.00	37.51	60.02	A24752TR-ND	6,000	46.37/M	63119-1
	14-18	—			.090-.155	A24753CT-ND	8.70	36.25	58.00	A24753TR-ND	6,000	43.50/M	63097-1
	10-12	—			.150-.200	A24755CT-ND	10.94	45.58	72.92	A24755TR-ND	6,000	54.69/M	63239-1
.187" Series - Mark II													
3	16-20	—	Brass/Tin	.020	.090-.130	A24756CT-ND	7.73	32.19	51.50	A24756TR-ND	12,000	34.77/M	63195-1
	20-24	—	Brass/Pre-Tin	.032	.060-.110	A24757CT-ND	10.39	43.28	69.24	A24757TR-ND	12,000	46.74/M	63196-2

AMPIP Post-Insulation Pods - Receptacle Housings

Fig.	Material	Flammability Rating Of Plastic Material	Color	Insulaton Max. Dia. (Inch)	Fits Tab Size (Inch)	UL	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
Flag Style													
1	Nylon	UL94V-2	Natural	.210	.250	X	X	A27908-ND	1.47	12.92	54.95	81.80	1-480307-1
	Nylon	UL94V-2	Natural	.140 or (2).110	.250	X	X	A27909-ND	5.75	50.56	215.05	320.11	1-480306-1
	Vinyl	UL94HB	Blue	.150	.250	—	—	A27910-ND	12.35	108.64	462.08	687.82	480019-6
	Nylon	UL94V-2	Natural	.175	.187	X	X	A27911-ND	8.54	75.17	319.73	475.94	1-480487-2
Straight Style													
2	Nylon	UL94V-2	Natural	.200	.250	X	X	A27912-ND	1.42	12.50	53.17	79.15	1-480416-0
				.180	.205	X	X	A27913-ND	3.19	28.05	119.29	177.57	1-480418-0
				.170	.187	X	X	A27914-ND	1.43	12.57	53.47	79.60	1-480435-0

Fig. 1

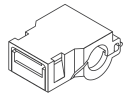

Fig. 2

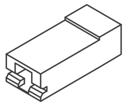

Line Splice Connector

Fig.	Material and Finish	Fits Tab Size (Inch)	UL	CSA	Digi-Key Part No.	Pricing 10	100	500	1,000	AMP Part No.
1	Plastic Tube over Brass Tab	.250	—	—	A24729-ND	3.01	26.48	112.63	167.66	321235
	Plastic Tube over Tin Plated Brass Tab		X	X	A24730-ND†	4.53	39.90	169.70	252.60	1-321235-1
2	Natural Nylon Housing over Brass Tab	.187	X	—	A24731-ND*	9.15	80.55	342.62	510.00	360035-1

† Recommended for UL applications   * Flammability UL94V-2 rating of plastic material

Fig. 1

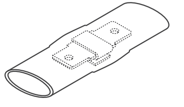

Fig. 2

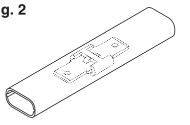

Tools

A9796-ND	Tool Die Set 14-26AWG, Ultrafast	**$213.62**
A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$37.23**
A30573-ND	Universal Crimp Tool, 22-10 AWG, Insulated Terminal and Splices	**$34.71**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$83.21**

Ring Tongue Terminals

PLASTI-BOND Ring Tongue

Temperature Rating: 85°C maximum **Material:** • Insulation: Vinyl • Terminal Body and Metallic Sleeve: Copper per ASTM B-152 • Plating: Tin per MIL-T-10727

AWG	Stud Size	Insulation Diameter Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
20-16	14	.170	A27549-ND	1.03	.90	36273

AMPLI-BOND Ring Tongue

Temperature Rating: 105°C Maximum
Material:

- Insulation: Vinyl
- Terminal Body: Copper per ASTM B-152
- Insulation Support Ring: Steel per ASTM-A-109
- Plating: Tin per MIL-T-10727

Fig. 1

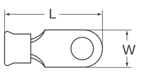

Fig. 2

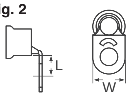

AWG	Stud Size	Dimensions W x L	Insul. Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
Straight - Fig. 1							
8 Red	10	.431 x 1.562	.298	A27361-ND	4.44	3.91	322128
	5/16	.587 x 1.702		A27363-ND	4.70	4.14	322003
	1/2	.875 x 1.846		A28023-ND	3.76	3.31	328463
4 Yellow	1/4	.546 x 1.908	.436	A27371-ND	6.89	6.07	322053
Right Angle - Fig. 2							
4 Yellow	1/4	.546 x .377	.436	A27565-ND	3.62	3.19	322894
2 Red	1/4	.610 x .343	.505	A28033-ND	5.60	4.93	52097
		.675 x .371		A28034-ND	4.97	4.38	322900

TERMINYL Ring Tongue

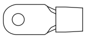

These terminals have been designed to provide insulated terminals and splices for large wire sizes, many of which are used in airborne and ground support applications. **Temperature Rating:** 105°C maximum **Material:** Insulation: Nylon Terminal Body: ASTM B-152 • Plating: Tin per MIL-T-10727

AWG	Stud Size	Dimensions – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
8 Red	8	.478 x 1.425	.256	A27378-ND	1.67	1.47	53041
	10	.431 x 1.402		A27379-ND	1.56	1.38	324043
	1/4	.478 x 1.425		A27380-ND	1.78	1.57	324082
	5/16	.587 x 1.542		A27381-ND	1.69	1.49	324044
	3/8	.587 x 1.542		A27382-ND	1.65	1.46	324045
6 Blue	10	.468 x 1.575	.314	A27383-ND	1.95	1.72	324046
	10	.398 x 1.700		A27384-ND	2.28	2.01	53119-1
	1/4	.500 x 1.700		A27385-ND	1.95	1.72	324047
	5/16	.625 x 1.762		A27386-ND	1.95	1.72	324048
	3/8	.625 x 1.762		A28015-ND	3.19	2.81	324049
4 Yellow	8	.437 x 1.376	.382	A27387-ND	2.54	2.23	331456
	10	.546 x 1.812		A27388-ND	2.59	2.28	324111
	10	.437 x 1.376		A27554-ND	3.96	3.48	1-331456-0
	1/4	.546 x 1.812		A27389-ND	2.36	2.08	324050
	5/16	.679 x 1.878		A27390-ND	2.36	2.08	324051
	3/8	.679 x 1.878		A27391-ND	2.68	2.36	324052
	1/2	.679 x 1.878		A28016-ND	2.71	2.39	324114
2 Red	10	.711 x 2.063	.468	A28017-ND	3.83	3.37	328655
	1/4	.679 x 2.045		A27392-ND	3.07	2.70	324053
	5/16	.711 x 2.063		A27393-ND	3.64	3.20	324112
	3/8	.711 x 2.063		A27394-ND	3.07	2.70	324054
1/0 Blue	1/4	.807 x 2.426	.580	A27395-ND	6.14	5.40	324056
	3/8			A27396-ND	4.18	3.68	324057
2/0 Yellow	3/8	.926 x 2.416	.610	A32019-ND	4.74	4.17	324084

DIAMOND GRIP

These terminals are designed for complete uniform reliability under the most critical conditions of vibrations, thermal shock, corrosion, tensions and current overload.

Material: Terminal Body and Metallic Sleeve: Copper per QQ-C-576 • Plating: Tin per MIL-T-10727 **AMP Wire:** Stranded **Temperature Rating:** 170°C maximum

AWG	Stud Size	Dimensions – Inch W x L	Insulation Dia. Inch	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
26-22	0	.140 x .464	.082	A28038-ND	.48	.43	31516
	2	.140 x .464		A27397-ND	.48	.43	31518
	4	.203 x .585		A28039-ND	.48	.43	31679
	6	.250 x .679		A28040-ND	.48	.43	32861
22-16	4	.218 x .603	.125	A28041-ND	.50	.44	31094
	6	.218 x .603	.125	A27398-ND	.50	.44	31096
	6	.281 x .728	.125	A28042-ND	.48	.43	31269
	6	.281 x .728	.140	A28043-ND	.48	.43	31396
	8	.312 x .775	.125	A27399-ND	.48	.43	30996
	8	.312 x .775	.140	A28044-ND	.48	.43	31160
	8	.281 x .728	.125	A28045-ND	.48	.43	31270
	8	.281 x .728	.140	A28046-ND	.64	.56	31397
	10	.312 x .775	.125	A27400-ND	.50	.44	30997
	10	281 x .728	.140	A27401-ND	.48	.43	31398
16-14	6	.250 x .634	.170	A28047-ND	.64	.56	32190
	8	.343 x .790	.170	A28048-ND	.48	.43	30927
	10	.343 x .790	.150	A28049-ND	.50	.44	30993
	10	.343 x .790	.170	A28050-ND	.48	.43	30928
12-10	10	.375 x 1.007	.230	A27402-ND	.68	.60	31771
	1/4	.531 x 1.251		A28051-ND	.76	.67	31772
	3/8	.593 x 1.345		A28052-ND	.79	.69	31828

BUDGET - Ring Tongue

Budget Terminals are primarily the same as SOLISTRAND products except for the absence of the brazed seam in the wire barrel. This terminal is ideal for applications where extreme vibration and tension in the wire are not present.

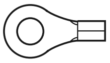

• **Temperature Rating:** 170°C maximum • **Material:** Terminal & Splice Body: Copper per ASTM B-152. Plating: Tin per MIL-T-10727 • **AMP Wire Range:** 22-16 Stranded, 16-14 Stranded, 12-10 Stranded • **UL Listed**

AWG	Stud Size	Dimensions – Inch W x L	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
26-22	0	.140 x .329	A28255-ND	.10	.09	31423
	2	.140 x .329	A27147-ND	.10	.09	31425
	2	.203 x .450	A28257-ND	.10	.09	33695
	2	.140 x .419	A28256-ND	.10	.09	322771
	4	.203 x .450	A27148-ND	.10	.09	31428
	6	.203 x .450	A27149-ND	.10	.09	31430
	6	.250 x .544	A28258-ND	.32	.28	32858
	8	.250 x .544	A28259-ND	.10	.09	32859
	10	.250 x .544	A28260-ND	.10	.09	32860
22-16	1	.218 x .449	A28261-ND	.12	.11	31087
	2	.218 x .499	A28263-ND	.12	.11	31088
	2	.182 x .446	A28262-ND	.12	.11	320677
	4	.218 x .449	A28265-ND	.12	.11	31089
	4	.182 x .446	A28264-ND	.40	.35	36189
	4	.250 x .621	A28266-ND	.12	.11	322418
	5	.218 x .449	A27150-ND	.12	.11	31090
	6	.218 x .449	A28267-ND	.12	.11	31091
	6	.281 x .574	A28269-ND	.12	.11	31264
	6	.312 x .621	A28270-ND	.12	.11	30691
	8	.312 x .621	A28273-ND	.12	.11	30692
	8	.281 x .574	A28272-ND	.12	.11	31265
	8	.344 x .653	A28274-ND	.12	.11	32823
	10	.312 x .621	A28276-ND	.12	.11	30693
	10	.281 x .574	A28275-ND	.12	.11	31266
	10	.344 x .653	A28277-ND	.40	.35	32824
	12	.312 x .621	A28278-ND	.12	.11	30694
	1/4	.469 x .856	A27151-ND	.47	.41	31172
	5/16	.469 x .856	A28281-ND	.14	.12	31173
	5/16	.531 x .995	A28282-ND	.29	.25	324124
	3/8	.531 x .995	A28280-ND	.29	.25	31498
	1/2	.713 x 1.070	A28279-ND	.40	.36	328970
16-14	2	.180 x .445	A28284-ND	.12	.11	326854
	4	.250 x .480	A28285-ND	.12	.11	32185
	6	.343 x .636	A28286-ND	.12	.11	30695
	6	.250 x .480	A28287-ND	.12	.11	32186
	6	.312 x .590	A28288-ND	.12	.11	321683
	8	.343 x .636	A28289-ND	.12	.11	30696
	8	.312 x .590	A28290-ND	.12	.11	322235
	10	.312 x .621	A28291-ND	.12	.11	51872-5
	10	.343 x .636	A27152-ND	.12	.11	30697
	12	.469 x .855	A28292-ND	.14	.12	31163
	14	.468 x .730	A28293-ND	.14	.12	34896
	1/4	.469 x .855	A28294-ND	.14	.12	31164
	5/16	.469 x .855	A28295-ND	.14	.12	31165
	3/8	.531 x .995	A28296-ND	.29	.25	31499
	1/2	.713 x 1.070	A28297-ND	.40	.36	328971
12-10	4	.281 x .630	A28299-ND	.19	.17	34891
	6	.281 x .630	A28300-ND	.19	.17	34892
	6	.375 x .765	A28301-ND	.19	.17	31112
	8	.312 x .708	A28302-ND	.19	.17	34404
	8	.375 x .765	A28303-ND	.19	.17	31113
	10	.343 x .723	A28304-ND	.19	.17	32882
	10	.375 x .765	A27153-ND	.19	.17	31114
	10	.500 x .865	A28305-ND	.22	.19	34964
	1/4	.500 x .865	A28307-ND	.22	.19	34965
	1/4	.531 x 1.004	A28308-ND	.22	.19	31122
	5/16	.531 x 1.004	A28312-ND	.22	.19	31123
	3/8	.593 x 1.098	A28309-ND	.22	.19	30972
	3/8	.750 x 1.271	A28310-ND	.43	.38	34833
	1/2	.715 x 1.102	A28306-ND	.43	.38	52269-1

A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9991-ND	Die Set for for PIDG and PLASTI-GRIP R, B, and Y Insulated Terminals, use with A9996-ND.	**$43.50**
A9811-ND	Crimp Tool with Die Set for PIDG and PLASTI-GRIP R, B, and Y Insulated Terminals	**$96.00**
A9821-ND	PIDG and PLASTI-GRIP Connector Kit	**$134.84**
A31882-ND	PRO-CRIMPER II Hand Tool, 22-10AWG, with Die	**$674.18**
A31883-ND	Die Set for Budget Terminal and Butt Splice, 22-10AWG, use with A31882-ND	**$599.94**

tyco Electronics AMP

Solistrand Ring Tongue Terminals

SOLISTRAND terminals and splices are specially designed to terminate solid and stranded wire. The barrel is completely closed and the seam is brazed for uniform metal strength around the entire barrel area.

Temperature Rating: 170°C maximum

Material: • Terminal Body: copper per ASTM B-152
• Plating: Tin per MIL-T-10727

UL Listed. CSA Certified. Military Approval.

Fig. 1

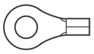

Fig. 2

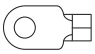

Fig.	AWG	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Price Each 10	Price Each 100	AMP Part No.
1	26-22	2	.140 x .419	A27000-ND	.59	.52	50334
	22-16	2	.182 x .446	A27002-ND	.20	.18	322927
		2	.218 x .449	A27001-ND	.20	.18	34103
		4	.182 x .446	A27003-ND	.52	.46	36467
		4	.218 x .449	A0914-ND	.16	.14	34104
		4	.250 x .621	A28055-ND	.84	.74	323096
		6	.218 x .449	A0915-ND	.15	.13	34105
		6	.281 x .574	A27006-ND	.15	.13	34107
		6	.312 x .621	A27008-ND	.16	.14	34110
		8	.281 x .574	A0916-ND	.15	.13	34108
		8	.312 x .621	A27009-ND	.15	.13	34111
		10	.281 x .574	A0917-ND	.15	.13	34109
		10	.312 x .621	A27012-ND	.16	.14	34112
		10	.344 x .653	A27015-ND	.28	.25	323087
		1/4	.469 x .856	A0918-ND	.18	.16	34113
		1/2	.713 x 1.070	A27019-ND	.45	.39	329966
		5/16	.469 x .856	A0919-ND	.18	.16	34114
		3/8	.531 x .995	A0920-ND	.19	.17	34115
	16-14	4	.250 x .480	A27020-ND	.35	.31	34119
		6	.343 x .636	A27021-ND	.15	.13	34121
		6	.250 x .480	A0921-ND	.15	.13	34120
		6	.312 x .590	A27023-ND	.16	.14	321684
		8	.343 x .636	A0922-ND	.15	.13	34122
		8	.343 x .723	A27154-ND•	.35	.31	35432
		8	.312 x .590	A27025-ND	.22	.19	324955
		10	.343 x .636	A0923-ND	.15	.13	34123
		10	.312 x .669	A27028-ND	.20	.18	320093
		10	.343 x .723	A27155-ND•	.29	.26	34567
		1/4	.469 x .855	A0924-ND	.18	.16	34124
		1/4	.500 x .865	A27157-ND•	.38	.33	35775
		1/2	.750 x 1.184	A27031-ND	.45	.39	50981
		1/2	.750 x 1.271	A27160-ND•	1.97	1.73	321165
		5/16	.469 x .855	A0925-ND	.18	.16	34125
		5/16	.500 x .865	A27158-ND•	.43	.38	35776
		3/8	.531 x .995	A0152-ND	.22	.20	34126
		3/8	.750 x 1.271	A27159-ND•	.63	.56	327732
2	14-12	10	.421 x .739	A27032-ND	.28	.25	34484
		10	.312 x .685	A27033-ND	.31	.27	321828
		3/8	.687 x 1.120	A27034-ND	.78	.69	34486
1	12-10	4	.281 x .630	A27035-ND	.21	.19	322447
		6	.281 x .630	A0926-ND	.22	.20	35476
		6	.375 x .765	A27036-ND	.27	.24	33456
		8	.312 x .708	A27038-ND	.29	.26	322454
		8	.375 x .765	A0927-ND	.21	.19	32994
		10	.343 x .723	A27040-ND	.40	.35	322455
		10	.375 x .765	A0928-ND	.20	.18	33457
		10	.375 x .808	A27042-ND	.62	.54	31805
		10	.500 x .865	A27043-ND	.77	.68	35771
		1/4	.500 x .865	A27045-ND	.24	.21	35772
		1/4	.531 x 1.004	A0929-ND	.25	.22	33458
		5/16	.531 x 1.004	A0930-ND	.25	.22	33459
		3/8	.593 x 1.098	A0931-ND	.25	.22	33220
		1/2	.750 x 1.271	A27049-ND	.47	.41	35135
		1/2	1.250 x 1.896	A27050-ND	1.82	1.60	320763
		5/8	1.250 x 1.896	A27051-ND	1.82	1.60	320764
		1	1.250 x 1.896	A27052-ND	3.66	3.22	1-320765-0
	8	8	.406 x .949	A27053-ND	.55	.49	324061
		8	.469 x .933	A27054-ND	.53	.47	32996
		10	.469 x .933	A27055-ND	.53	.47	33460
		10	.406 x .949	A27057-ND	.55	.49	31807
		1/4	.469 x .933	A27059-ND	.52	.46	33461
		1/4	.594 x 1.168	A27061-ND	.73	.64	35247
		5/16	.594 x 1.168	A27062-ND	.73	.64	33462
		5/16	.562 x 1.074	A27063-ND	1.58	1.39	31808
		3/8	.594 x 1.168	A27064-ND	.75	.66	33463
		1/2	1.250 x 1.965	A27065-ND	2.13	1.88	35664
		5/8	1.250 x 1.965	A27066-ND	2.39	2.11	35665
	6	10	.406 x 1.181	A27067-ND	.79	.70	52197
		10	.625 x 1.246	A27069-ND	.79	.70	33464
		10	.468 x 1.168	A27070-ND	.82	.72	321298
		1/4	.625 x 1.246	A27071-ND	.57	.50	33465
		1/4	.468 x 1.168	A27073-ND	.77	.68	321598
		5/16	.625 x 1.246	A27074-ND	.77	.68	33466
		1/2	.875 x 1.840	A27077-ND	1.42	1.25	320344
		1/2	1.250 x 2.033	A27078-ND	2.91	2.56	36808
		5/8	1.250 x 2.033	A27079-ND	1.51	1.33	36809
		3/4	1.250 x 2.033	A27080-ND	2.35	2.07	36810
	4	10	.656 x 1.314	A27081-ND	1.13	1.00	33468
		10	.500 x 1.199	A27082-ND	1.17	1.03	33114
		1/4	.656 x 1.314	A27083-ND	1.07	.94	33469
1	4	1/4	.500 x 1.199	A27084-ND	1.17	1.03	31811
		5/16	.656 x 1.314	A27085-ND	1.07	.94	33470
		5/16	.565 x 1.324	A27086-ND	1.57	1.38	33115
		3/8	.656 x 1.314	A27087-ND	1.13	1.00	33471
		3/8	.656 x 1.324	A27088-ND	1.56	1.37	31812
		1/2	1.250 x 2.090	A27089-ND	1.81	1.60	35668
		1/2	.875 x 1.902	A27090-ND	1.87	1.65	327175
		5/8	1.250 x 2.090	A27091-ND	1.81	1.60	35669
		3/4	1.250 x 2.090	A27092-ND	3.29	2.90	35670
	2	1/4	.890 x 1.657	A27095-ND	1.69	1.49	320138
		5/16	.890 x 1.657	A27096-ND	2.63	2.32	35183
		3/8	.890 x 1.657	A27099-ND	1.69	1.49	35184
		7/16	.890 x 1.657	A27100-ND	1.71	1.51	320741
		1/2	.890 x 1.657	A27101-ND	2.63	2.32	35185
		1/2	1.250 x 2.516	A27102-ND	7.84	6.90	323291
		5/8	1.250 x 2.516	A27103-ND	5.35	4.71	320754
2	2	10	.625 x 1.527	A27093-ND	2.05	1.80	330301
		1/4	.625 x 1.527	A27094-ND	1.73	1.53	320383
		5/16	.625 x 1.527	A27097-ND	1.57	1.38	322870
		3/8	.625 x 1.527	A27098-ND	1.76	1.55	321600
1	1/0	1/4	.875 x 1.956	A27104-ND	2.59	2.28	36915
		1/4	.807 x 1.925	A27105-ND	2.67	2.35	321866
		5/16	.875 x 1.956	A27106-ND	2.59	2.28	36916
		5/16	.807 x 1.925	A27107-ND	2.67	2.35	321867
		3/8	.875 x 1.956	A27108-ND	2.63	2.31	36917
		3/8	.807 x 1.925	A27109-ND	2.67	2.35	321868
		7/16	.875 x 1.956	A27110-ND	4.35	3.83	36918
		1/2	.875 x 1.956	A27111-ND	2.67	2.35	36919
		1/2	1.265 x 2.678	A27112-ND	5.19	4.57	322291
		5/8	1.265 x 2.678	A27113-ND	5.26	4.63	320744
		3/4	1.265 x 2.678	A27114-ND	5.26	4.63	320748
	2/0	1/4	.946 x 2.000	A27115-ND	3.27	2.88	36921
		5/16	.926 x 1.930	A27116-ND	3.38	2.97	321870
		5/16	.946 x 2.000	A27117-ND	3.27	2.88	36922
		3/8	.926 x 1.930	A27118-ND	3.38	2.97	321871
		3/8	.946 x 2.000	A27119-ND	3.27	2.88	36923
		1/2	.926 x 1.930	A27120-ND	3.38	2.97	321873
		1/2	.946 x 2.000	A27121-ND	3.27	2.88	36925
		5/8	1.270 x 2.671	A27122-ND	7.48	6.58	322224
	3/0	5/8	1.270 x 2.699	A27129-ND	8.51	7.49	322222
2	3/0	5/16	1.020 x 2.112	A27123-ND	6.00	5.28	321874
		3/8	1.020 x 2.112	A27124-ND	3.85	3.39	321875
		3/8	1.082 x 2.143	A27125-ND	3.98	3.50	36927
		7/16	1.020 x 2.112	A27126-ND	6.00	5.28	321876
		1/2	1.082 x 2.143	A27127-ND	6.20	5.46	36929
		1/2	1.020 x 2.112	A27128-ND	6.00	5.28	321877
1	4/0	5/8	1.275 x 2.732	A27136-ND	11.74	10.33	322227
		3/4	1.275 x 2.732	A27137-ND	12.11	10.66	322228
2	4/0	5/16	1.150 x 2.537	A27130-ND	5.99	5.27	321271
		3/8	1.150 x 2.206	A27131-ND	4.10	3.61	36932
		3/8	1.087 x 2.178	A27132-ND	4.62	4.06	321878
		1/2	1.087 x 2.178	A27133-ND	7.20	6.34	321880
		1/2	1.150 x 2.206	A27134-ND	4.10	3.61	36934
		5/8	1.150 x 2.206	A27135-ND	6.60	5.81	36935
	250-300 MCM	3/8	1.435 x 2.602	A27138-ND	12.04	10.60	322252
		7/16	1.435 x 2.602	A27139-ND	12.04	10.60	322253
		1/2	1.435 x 2.602	A27140-ND	12.04	10.60	322254
	300-350 MCM	1/2	1.545 x 2.671	A27141-ND	12.24	10.77	322259
		1/2	1.545 x 3.422	A28760-ND	19.12	16.82	322764
	400 MCM	3/8	1.749 x 2.790	A27142-ND	9.92	8.73	322262
		1/2	1.749 x 2.790	A27143-ND	18.89	16.63	322264
	500-600 MCM	3/8	2.015 x 3.187	A27144-ND	29.91	26.32	322267
		1/2	2.015 x 3.187	A27145-ND	41.33	36.37	322269
		1/2	2.015 x 4.176	A27146-ND	48.59	42.76	322773

• Heavy Duty

Cut Tape and Tape & Reel Product

Fig.	AWG	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Cut Tape Pricing 500	Cut Tape Pricing 1,000	Tape & Reel† Size	Tape & Reel† Pricing	AMP Part No.
1	22-16	4	.250 x .621	A28055CT-ND	—	160.45	5,000	128.36/M	2-323096-2
		6	.218 x .449	A0915CT-ND	—	144.75	5,000	115.80/M	2-34105-2
		6	.281 x .574	A27006CT-ND	—	121.58	5,000	97.26/M	2-34107-2
		10	.312 x .621	A27012CT-ND	—	125.45	5,000	100.36/M	2-34112-2
		1/4	.469 x .856	A0918CT-ND	—	138.80	5,000	111.04/M	2-34113-2
	16-14	6	.250 x .480	A0921CT-ND	—	243.13	5,000	194.50/M	2-34120-1
		8	.343 x .636	A0922CT-ND	—	121.58	5,000	97.26/M	2-34122-1
		8	.312 x .590	A27025CT-ND	—	164.43	5,000	131.54/M	2-324955-1
		10	.343 x .723	A27155CT-ND	251.02	456.40	2,500	365.12/M	2-34567-1
		10	.343 x .636	A0923CT-ND	—	121.58	5,000	97.26/M	2-34123-1
	12-10	10	.375 x .765	A0928CT-ND	106.25	193.18	2,500	154.54/M	2-33457-2
		10	.500 x .865	A27043CT-ND	266.15	483.90	2,500	387.12/M	2-35771-1
		1/4	.531 x 1.004	A0929CT-ND	104.32	189.68	2,500	151.74/M	2-33458-3

† For Tape and Reel part number, change CT-ND to TR-ND.

Tools

A27223-ND	Crimp Tool for all Solistrand (except flag tongue terminals)	**$236.39**
A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9813-ND	Die Set for Uninsulated Terminals, use with A9996	**$94.50**
A9812-ND	Crimp Tool, Uninsulated Terminals with Die Set	**$118.50**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$37.23**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$83.21**

Solistrand Terminals and Splices

SOLISTRAND terminals and splices are specially designed to terminate solid and stranded wire. The barrel is completely closed and the seam is brazed for uniform metal strength around the entire barrel area.

Temperature Rating: 170°C maximum **Material:** • Terminal Body: copper per ASTM B-152 • Plating: Tin per MIL-T-10727 UL Listed. CSA Certified. Military Approval.

Uninsulated Ring Tongue and Splices: Temperature Rating: 343°C **Material:** • Terminal and Splice Body: Copper per QQ-C-576 • Plating: Nickel per QQ-N-290 • Metallic Sleeve: Nickel/Silver per QQ-C-585

Parallel Splices: Material: • Splice Body: Copper per ASTMB-152

Fig. 1

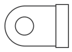

Fig. 2

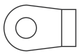

Fig. 3

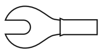

Fig. 4

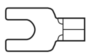

Fig. 5

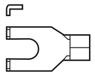

Fig. 6

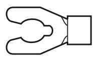

Fig. 7

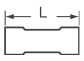

Fig. 8

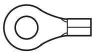

Fig. 9

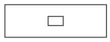

Fig. 10

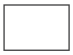

Parallel Splice

Fig. 11

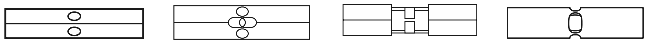

A – Standard B – Sight Hole C – Strap D

Flag Ring Tongue Terminals

Fig.	AWG	Stud Size	Dimension - Inch W x L	Digi-Key Part No.	Price Each 10	100	AMP Part No.
1	16-14	8	.312 x .579	A28056-ND	.72	.63	325069
		10		A27177-ND	.64	.56	322819
	12-10	6	.375 x .702	A28057-ND	.87	.77	36269
		8		A27178-ND	.90	.79	36270
		10		A27179-ND	.64	.56	36271
		1/4		A28058-ND	.86	.76	36272
2	8	10	.500 x .791	A28059-ND	3.50	3.08	321051
		10	.500 x .918	A28060-ND	3.16	2.78	321441
		1/4	.609 x 1.130	A28061-ND	3.75	3.30	322727
1	6	10	.500 x .841	A27180-ND	2.62	2.30	323196
		1/4	.500 x .960	A27181-ND	4.63	4.07	321576
2		3/8	.625 x 1.200	A27182-ND	5.16	4.54	322204
1	4	10	.546 x 1.048	A27183-ND	3.05	2.68	321059
		1/4	.546 x 1.048	A27184-ND	3.05	2.68	321275
2		5/16	.685 x 1.278	A27185-ND	2.89	2.54	321060
2	2	10	.713 x 1.437	A27186-ND	3.40	2.99	321063
		1/4		A27187-ND	5.83	5.13	321201
		5/16		A27188-ND	2.92	2.57	321064

Slotted Ring Tongue

Fig.	AWG	Stud Size	Dimension - Inch W x L	Digi-Key Part No.	Price Each 10	100	AMP Part No.
3	22-16	4	.182 x .425	A28614-ND	.25	.22	321288

Spade Terminals

Fig.	Stud Size	Dimensions - Inch W x L	Digi-Key Part No.	Price Each 10	100	AMP Part No.
22-16 AWG						
4	2	.182 x .504	A0932-ND	.24	.21	53555-1
	4	.218 x .451	A09000-ND	.28	.25	321463
	6	.297 x .530	A09001-ND[1]	.15	.13	36195
	6	.250 x .623	A0933-ND[2]	.15	.13	323127
	8	.375 x .685	A0934-ND	.52	.46	34117
	10	.375 x .685	A0935-ND	.15	.13	34118
5	2	.182 x .504	A0939-ND	.57	.50	324605
	6	.296 x .514	A0940-ND[2]	.57	.50	320749
	6	.250 x .514	A09006-ND[1]	.57	.50	323136
	8	.296 x .514	A0941-ND[1]	.57	.50	52730
	8	.416 x .607	A09007-ND[2]	.18	.16	323124
6	4	.203 x .576	A0943-ND	.20	.17	53175-1
	8	.244 x .637	A09005-ND	.67	.59	53831-1
16-14 AWG						
4	6	.297 x .530	A09002-ND	.15	.13	322996
	6	.244 x .623	A27163-ND	1.00	.88	330827
	8	.385 x .685	A09003-ND	.38	.33	34128
	10	.385 x .764	A27164-ND	.20	.18	33219
	10	.385 x .685	A09004-ND	.52	.46	34129
5	6	.294 x .514	A09008-ND	.57	.50	320855
	8		A0942-ND	.16	.15	320856
	10		A09009-ND	.32	.28	320857
6	8	.375 x .637	A0946-ND	.20	.17	53124-1
12-10 AWG						
4	6	.282 x .631	A0936-ND	.30	.26	322451
	8	.406 x .772	A0937-ND	.40	.35	32995
	10	.406 x .772	A27165-ND	.21	.19	33479
	10	.375 x .772	A0938-ND	1.04	.92	35495
6	6	.250 x .636	A0948-ND	.27	.24	53126-1
	8	.375 x .729	A0949-ND	.87	.76	53127-1
Flanged Spade Tongue						
12-10 AWG						
5	6	.296 x .694	A28062-ND	.31	.27	324578
	8	.416 x .694	A27175-ND	.58	.51	323143
	10	.416 x .694	A28063-ND	.31	.27	323144

[1]Short; [2] Long

Short Spring Spade Tongue

Fig.	Stud Size	Dim. Inch W x L	Digi-Key Part No.	Price Each 10	100	Digi-Key Part No.	Cut Tape Pricing 500	1,000	Tape & Reel† Size	Pricing
22-16 AWG										
6	6	.250 x .576	A0944-ND	.67	.59	A0944CT-ND	—	152.00	5,000	121.60/M
16-14 AWG										
6	6	.250 x .576	A0945-ND	.20	.17	A0945CT-ND	—	152.00	5,000	121.60/M
	10	.406 x .685	A0947-ND	.20	.17	A0947CT-ND	—	152.00	5,000	121.60/M
12-10 AWG										
6	8	.312 x .729	A27170-ND	.27	.24	—	—	—	—	—
	10	.406 x .777	A0950-ND	.27	.24	A0950CT-ND	112.92	205.30	2,500	164.24/M
	10	.312 x .777	A28064-ND	.27	.24	A28064CT-ND	112.92	205.30	2,500	164.24/M

† For Tape and Reel part number, change CT-ND to TR-ND.

Parallel Splices

Fig.	AWG	Dimension - Inch Length	Digi-Key Part No.	Price Each 10	100	AMP Part No.
7	22-16	.301	A27193-ND	.13	.11	34130
	16-14	.301	A27194-ND	.13	.11	34137
	12-10	.343	A27195-ND	.16	.14	34138
	8	.375	A27196-ND	.31	.28	34318
	6	.437	A27197-ND	.53	.47	34319
	4	.531	A27198-ND	.68	.60	34320
	2	.640	A27199-ND	1.12	.98	35187
	1/0	.734	A27200-ND	1.66	1.46	36946
	2/0	.734	A27201-ND	1.74	1.53	36948
	3/0	.749	A27202-ND	2.22	1.95	36909
	4/0	.765	A27203-ND	2.59	2.28	36951
	250-300	1.062	A27204-ND	6.49	5.71	322275
	300-350	1.124	A27205-ND	6.63	5.83	322276
	400	1.249	A27206-ND	8.76	7.71	322277
	500-600	1.421	A27566-ND	12.60	11.09	322278

Uninsulated Ring Tongue

Fig.	AWG	Stud Size	Dimension - Inch W x L	Insulation Support For	Digi-Key Part No.	Price Each 10	100	AMP Part No.
8	22-16	4	.218 x .603	.105 ~ .140	A27403-ND	.98	.86	322363
		6	.281 x .728	.105 ~ .140	A27404-ND	1.51	1.33	323199
		6	.282 x .574	Non-Insulation	A28053-ND	.39	.34	323219
		6	.218 x .449	Non-Insulation	A27405-ND	.42	.37	322797
		8	.281 x .574	Non-Insulation	A27406-ND	.42	.37	322798
		10	.281 x .728	.105 ~ .140	A27407-ND	.98	.86	322366
		10	.281 x .574	Non-Insulation	A27408-ND	.42	.37	322799
	16-14	10	.343 x .800	.140 ~ .195	A27409-ND	1.59	1.40	322375
			.343 x .636	Non-Insulation	A27410-ND	.48	.43	322695
	12-10	8	.375 x .760	Non-Insulation	A27411-ND	.72	.63	323061
		10	.375 x 1.007	.150 ~ .250	A27412-ND	1.89	1.66	325154
		10	.375 x .760	Non-Insulation	A27413-ND	.72	.63	323062
		1/4	.531 x 1.004	Non-Insulation	A27414-ND	.91	.81	323063

Uninsulated Splices

Fig.	AWG	Length Inch	Digi-Key Part No.	Price Each 10	100	AMP Part No.
9	22-16	.578	A27487-ND	.55	.49	323796
10		.301	A27488-ND	.41	.36	323030
9	16-14	.572	A27489-ND	.55	.49	323795
10		.301	A27490-ND	.41	.36	323794
9	12-10	.567	A28054-ND	.82	.72	323755
10		.333	A27491-ND	.50	.44	323754
10		.333	A29335-ND*	1.10	.97	323672
10	16-14	.301	A29336-ND*	.93	.82	322347

Butt Splices

Fig.	AWG	Length Inch	Digi-Key Part No.	Price Each 10	100	AMP Part No.
11C	26-22	.385	A09010-ND	.19	.17	321198
	24-20	.490	A09011-ND	.25	.22	324001
11A	22-16	.578	A0951-ND	.19	.17	31818
11B			A09012-ND	.30	.26	330367
11A	16-14	.567	A0952-ND	.21	.18	31819
11B		.567	A09014-ND	.33	.29	330368
11C		.591	A27207-ND	.31	.27	322459
11C		.591	A09013-ND	.39	.34	327025
11C		.529	A29337-ND*	1.18	1.04	323878
11B	14-12	.690	A27209-ND	.36	.32	321280
11A	12-10	.565	A0953-ND	.28	.24	32151
11B		.567	A09015-ND	.99	.87	330369
11C		.765	A27210-ND	.47	.41	324893
11C		.703	A29338-ND*	2.36	2.08	323698
11A	8	.827	A27211-ND	.64	.56	34321
11B			A27212-ND	.68	.60	36906
11A	6	1.015	A27213-ND	.98	.86	34322
11B			A27214-ND	1.40	1.23	36886
11A	4	1.140	A27215-ND	2.16	1.90	34323
11A	2	1.265	A27216-ND	3.37	2.97	35189
11B			A27217-ND	5.01	4.41	322246
11D	1/0	1.412	A27218-ND	4.49	3.95	36957
	2/0	1.437	A27219-ND	5.33	4.69	36958
	3/0	1.480	A27220-ND	6.34	5.58	36959
	4/0	1.484	A27221-ND	5.53	4.86	36960
	250-300	2.093	A27222-ND	12.70	11.18	322279

*High Temperature

Tools

A27223-ND	Crimp Tool for all Solistrand (except Flag Tongue Terminals)	**$236.39**
A9996-ND	PRO-CRIMPER II Hand Tool without Dies	**$66.00**
A9813-ND	Die Set for Solistrand Butt Splices 22-10 AWG, use with A9996-ND	**$94.50**
A9812-ND	Crimp Tool with Die for Solistrand Butt Splices 22-10 AWG	**$118.50**
A30572-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals and Splices	**$37.23**
A30574-ND	Universal Crimp Tool, 22-10 AWG, Insulated/Non-Insulated Terminals, Splices, and Tab-Lok FASTON Flag Terminals	**$83.21**

tyco Electronics AMP

Machine Applied Terminations

RoHS Compliant

Fig. 1

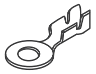

Fig. 2

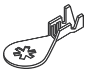

Fig. 3

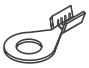

Fig. 4

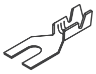

Fig. 5

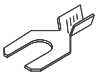

Fig. 6

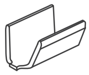

Fig. 7

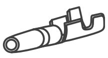

Fig. 8

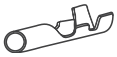

Fig. 9

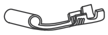

Fig. 10

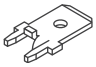

Fig.	Stud Size	Wire AWG	Insulation Diameter (Inch)	Material/Finish	Digi-Key Part No.	Cut Tape Pricing 100	500	1000	Digi-Key Part No.	Tape and Reel Size	Pricing	AMP Part No.
					Ring, Insulation Support							
1	#6	22-18	0.06-0.11	Brass/Tin	A29864CT-ND	8.14	37.29	67.80	A29864TR-ND	20,000	36.62/M	40697
	#8	22-18	0.06-0.11	Brass/Tin	A29865CT-ND	10.30	47.19	85.80	A29865TR-ND	10,000	46.34/M	40698
	#8	18-14	0.1-0.14	Brass/Tin	A29866CT-ND	9.69	44.43	80.78	A29866TR-ND	11,000	43.62/M	40724
	#10	18-14	0.1-0.14	Brass/Tin	A29867CT-ND	10.72	49.13	89.33	A29867TR-ND	11,000	48.24/M	40725
	5/16	22-18	.07-.11	Brass/Tin	A29868CT-ND	17.99	82.43	149.88	A29868TR-ND	5,000	119.90/M	41013
	#10	12-10	0.15-0.21	Brass/Tin	A29869CT-ND	21.25	97.39	177.08	A29869TR-ND	3,000	141.66/M	41124
	#8	18-14	0.12-0.17	Brass/Tin	A29870CT-ND	8.94	40.98	74.50	A29870TR-ND	12,500	40.24/M	41332
	#10	18-14	0.12-0.17	Brass/Tin	A29871CT-ND	7.74	35.48	64.50	A29871TR-ND	12,500	34.84/M	41333
	.156	20-16	0.1-0.135	Brass/Tin	A29872CT-ND	8.73	40.01	72.75	A29872TR-ND	25,000	39.29/M	41472
	#6	24-20	0.08-0.1	Brass/Tin	A29873CT-ND	7.15	32.77	59.58	A29873TR-ND	7,500	35.75/M	41580
	#8	24-20	0.08-0.1	Brass/Tin	A29874CT-ND	8.02	36.74	66.80	A29874TR-ND	7,500	40.08/M	41581
	1/4	22-18	0.07-0.1	Brass/Tin	A29875CT-ND	14.38	65.92	119.85	A29875TR-ND	6,000	71.91/M	41711
	#10	22-18	0.08-0.11	Brass	A29876CT-ND	9.87	45.25	82.28	A29876TR-ND	10,000	44.43/M	42036-2
	#6	22-18	0.08-0.11	Brass/Tin	A29877CT-ND	8.14	37.29	67.80	A29877TR-ND	10,000	36.62/M	42037
	#8	22-18	0.08-0.11	Brass/Tin	A29878CT-ND	6.95	31.85	57.90	A29878TR-ND	20,000	31.27/M	42037-1
	#10	22-18	0.08-0.11	Brass/Tin	A29879CT-ND	6.95	31.85	57.90	A29879TR-ND	20,000	31.27/M	42037-2
	#8	24-20	0.048-0.078	Brass/Tin	A29880CT-ND	9.03	41.39	75.25	A29880TR-ND	10,000	40.64/M	42508-2
	#4	26-22	0.04-0.06	Brass/Tin	A29881CT-ND	6.28	28.77	52.30	A29881TR-ND	20,000	28.25/M	42547-2
	.257	16-14	0.12-0.18	Brass	A29882CT-ND	29.00	132.89	241.63	A29882TR-ND	4,000	144.98/M	42751-1
	.323	16-14	0.12-0.18	Brass/Tin	A29883CT-ND	17.13	78.51	142.75	A29883TR-ND	4,000	85.65/M	42752-2
	.142	26-20	0.048-0.078	Brass/Tin	A29884CT-ND	7.38	33.83	61.50	A29884TR-ND	12,000	33.21/M	60123-2
	#10	18-14	0.1-0.14	Brass/Tin	A29885CT-ND	13.48	61.78	112.33	A29885TR-ND	11,000	60.66/M	60433-2
	#6	24-20	0.048-0.078	Brass/Tin	A29886CT-ND	8.54	39.16	71.20	A29886TR-ND	20,000	38.45/M	60553-1
	1/4	18-14	0.1-0.14	Brass/Tin	A29887CT-ND	9.98	45.72	83.13	A29887TR-ND	11,000	44.89/M	60625-1
	#6	18-14	0.1-0.14	Brass/Tin	A29888CT-ND	7.66	35.09	63.80	A29888TR-ND	6,000	38.28/M	60770-2
	.#8	18-14	0.1-0.14	Brass	A29889CT-ND	5.65	25.88	47.05	A29889TR-ND	6,000	28.23/M	60771-1
	#8	18-14	0.1-0.14	Brass/Tin	A29890CT-ND	6.12	28.05	51.00	A29890TR-ND	6,000	30.60/M	60771-2
	#10	18-14	0.1-0.14	Brass/Tin	A29891CT-ND	5.05	23.13	42.05	A29891TR-ND	12,000	22.71/M	60772-2
	#10	18-14	0.1-0.14	Brass/Tin	A29892CT-ND	4.93	22.59	41.08	A29892TR-ND	8,000	24.65/M	60772-3
	3/8	16-14	0.12-0.18	Brass/Tin	A29893CT-ND	37.96	173.99	316.35	A29893TR-ND	2,500	253.08/M	61336-1
	#4	20-16	0.1-0.135	Brass/Tin	A29894CT-ND	8.73	40.01	72.75	A29894TR-ND	25,000	39.29/M	61386-1
	.094	26-24	0.035-0.065	Brass	A29895CT-ND	2.33	10.70	19.45	A29895TR-ND	50,000	9.73/M	61653-1
	1/4	18-14	0.085-0.12	Brass/Tin	A29897CT-ND	17.15	78.58	142.88	A29897TR-ND	3,000	114.30/M	485029-1
2	.177	22-16	0.105	Brass	A29896CT-ND	12.48	57.19	103.98	A29896TR-ND	6,000	62.39/M	350509-1
	.181	22-16	0.1-0.14	Steel/Tin	A29898CT-ND	11.24	51.49	93.63	A29898TR-ND	5,000	74.90/M	61556-1
	#8	16-12	0.13-0.17	Brass	A29899CT-ND	7.42	34.00	61.83	A29899TR-ND	9,000	37.10/M	61624-1
	#6	18-14	0.105-0.145	Steel/Tin	A29900CT-ND	6.17	28.28	51.43	A29900TR-ND	9,000	30.86/M	61793-1
	#8	18-14	0.105-0.145	Steel/Tin	A29901CT-ND	5.35	24.52	44.58	A29901TR-ND	9,000	26.75/M	61794-1
	#8	18-14	0.105-0.145	Brass	A29902CT-ND	8.13	37.25	67.73	A29902TR-ND	9,000	40.64/M	61794-4
	#10	18-14	0.105-0.145	Steel/Tin	A29903CT-ND	5.35	24.52	44.58	A29903TR-ND	9,000	26.75/M	61795-1
	#10	18-14	0.105-0.145	Brass/Tin	A29904CT-ND	7.69	35.24	64.08	A29904TR-ND	9,000	38.45/M	61795-3
	#10	12-10	0.125-0.22	Steel/Tin	A29905CT-ND	12.70	58.20	105.83	A29905TR-ND	1,800	84.67/M	62613-2
	#8	18-14	0.105-0.145	Steel	A29906CT-ND	8.38	38.39	69.80	A29906TR-ND	6,000	41.88/M	640051-1
	#10	18-14	0.105-0.145	Steel	A29907CT-ND	7.39	33.87	61.58	A29907TR-ND	6,000	36.95/M	640052-1
	#8	22-18	0.08-0.12	Steel/Tin	A29908CT-ND	6.83	31.32	56.95	A29908TR-ND	9,000	34.17/M	640204-1
	#10	22-18	0.08-0.12	Steel/Tin	A29909CT-ND†	6.41	29.36	53.38	A29909TR-ND†	7,500	32.99/M	640271-1
	#10	22-18	0.08-0.12	Tin	A31703CT-ND	6.40	29.34	53.35	A31703TR-ND	15,000	28.81/M	640271-3
					Ring, Non-Insulation Support							
3	#8	18-14	—	Brass	A29910CT-ND	6.29	28.82	52.40	A29910TR-ND	20,000	28.30/M	34812
	#10	12-10	—	Brass/Tin	A29911CT-ND	14.00	64.19	116.70	A29911TR-ND	8,000	70.02/M	40524
	.096	22-20	0.05-0.065	Brass/Tin	A29912CT-ND	6.67	30.55	55.55	A29912TR-ND	25,000	30.00/M	41376
					Fork, Insulation Support							
4	#6	20-16	0.09-0.13	Brass/Tin	A29913CT-ND	9.10	41.69	75.80	A29913TR-ND	15,000	40.94/M	40763
	#10	24-20	0.08-0.1	Brass/Tin	A29914CT-ND	10.15	46.52	84.58	A29914TR-ND	15,000	45.68/M	41590
	#6	24-20	0.048-0.078	Brass/Tin	A29915CT-ND	7.38	33.83	61.50	A29915TR-ND	25,000	33.21/M	60445-2
	#10	24-20	0.048-0.078	Brass/Tin	A29916CT-ND	7.56	34.64	62.98	A29916TR-ND	20,000	34.01/M	60501-1
	#6	18-14	0.13-0.18	Brass/Tin	A29917CT-ND	11.20	51.33	93.33	A29917TR-ND	12,000	50.40/M	60725-1
	#8	18-14	0.1-0.14	Brass/Tin	A29918CT-ND	7.66	35.09	63.80	A29918TR-ND	6,000	38.28/M	60774-2
	#10	18-14	0.1-0.14	Brass	A29919CT-ND	6.92	31.74	57.70	A29919TR-ND	6,000	34.62/M	60775-1
					Fork, Non-Insulation Support							
5	#8	12-10	—	Brass/Tin	A29920CT-ND	16.43	75.31	136.93	A29920TR-ND	8,000	82.16/M	42113-2
	#5	20-18	0.065-0.08	Brass/Tin	A29921CT-ND	9.25	42.39	77.08	A29921TR-ND	10,000	41.63/M	42339-2
	#5	28-22	0.035-0.04	Brass	A29922CT-ND	4.02	18.41	33.48	A29922TR-ND	14,000	18.08/M	61498-1
	#5	28-22	0.035-0.04	Brass/Tin	A29923CT-ND	5.10	23.38	42.50	A29923TR-ND	14,000	22.95/M	61498-2

† Not RoHS Compliant

Splices Non-Insulation

Fig.	Wire Range Min./Max. (mm2)	Stock Thickness (Inch)	Material	Length (Inch)	Digi-Key Part No.	Cut Tape Pricing 100	500	1000	Digi-Key Part No.	Tape and Reel Size	Pricing	AMP Part No.
6	1.64/4.2	.020	Brass	.152	A29924CT-ND	4.94	22.62	41.13	A29924TR-ND	20,000	22.21/M	40509
	1.52/4.28	.020	Brass	.255	A29925CT-ND	5.39	24.72	44.95	A29925TR-ND	2,500	35.96/M	485043-1
	.61/1.32	.020	Brass	.188	A29926CT-ND	4.13	18.92	34.40	A29926TR-ND	12,000	18.58/M	60372-1
	6.08/9.12	.025	Brass	.250	A29927CT-ND	6.67	30.55	55.55	A29927TR-ND	10,000	30.00/M	60997-1
	2.03/5.07	.025	Brass	.250	A29928CT-ND	6.33	29.01	52.75	A29928TR-ND	12,500	28.49/M	62357-1
	.20/.81	.016	Brass	.110	A29929CT-ND	4.97	22.78	41.43	A29929TR-ND	20,000	22.37/M	62759-1

Shur-Plug Terminals and Receptacles

Fig.	Mating Angle	Wire AWG	Stock Thick. (Inch)	Insulation Size Min./Max.	Material/ Finish	Mating Diameter (Inch)	Digi-Key Part No.	Cut Tape Pricing 100	500	1000	Digi-Key Part No.	Tape and Reel Size	Pricing	AMP Part No.
							Terminals							
7	Straight	18-14	.018	.120/.175	Brass/Tin	.180	A29930CT-ND	7.40	33.89	61.63	A29930TR-ND	6,000	36.98/M	60660-1
	Straight	18-14	.018	.085/.125	Brass/Tin	.156	A29931CT-ND	14.02	64.25	116.83	A29931TR-ND	7,000	70.10/M	60766-2
	Straight	14-10	.018	N/A	Brass/Tin	.180	A29939CT-ND	10.38	47.58	86.50	A29939TR-ND	4,000	51.90/M	42865-3
							Receptacles							
8	Straight	18-14	.016	.130/.175	Brass/Tin	.156	A29932CT-ND	9.23	42.31	76.93	A29932TR-ND	6,000	46.16/M	42142-1
	Straight	18-14	.016	.130/.175	Brass	.156	A29933CT-ND	13.17	60.36	109.75	A29933TR-ND	6,000	65.85/M	42142-2
9	Rt. Angle	20-16	.016	.100/.140	Brass	.156	A29934CT-ND	18.64	85.42	155.30	A29934TR-ND	2,500	124.24/M	60017-3

PCB Faston Tabs

Fig.	Mating Angle	Tab Width (Inch)	Mating Tab Thickness (Inch)	Material/ Finish	Digi-Key Part No.	Cut Tape Pricing 100	500	1000	Digi-Key Part No.	Tape and Reel Size	Pricing	AMP Part No.
10	Straight	.187	.020	Brass/Tin	A29937CT-ND	5.76	26.41	48.03	A29937TR-ND	16,000	25.94/M	63823-1
	Straight	.250	.032	Brass/Tin	A29938CT-ND	5.18	23.75	43.18	A29938TR-ND	10,000	23.32/M	63824-1

Fig. 1

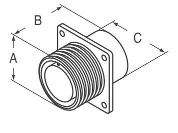

Fig. 2

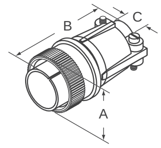

Fig. 3

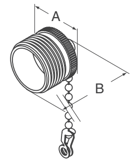

Fig. 4

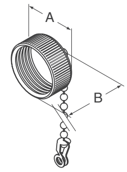

Fig. 5

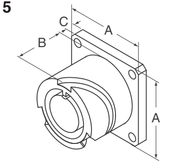

Fig. 6

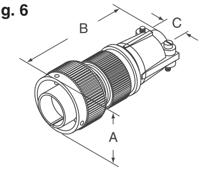

Fig. 7

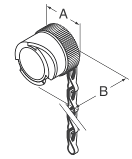

Fig. 8

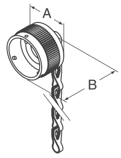

Fig. 9 ***NEW!***

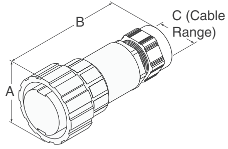

Contact Legend

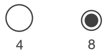

Insert Patterns
(Front face of pin insert shown. Drawings not to scale.)

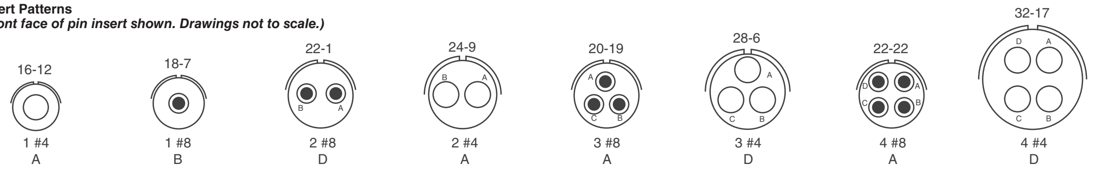

RADSOK Advantages: • Low contact resistance • Low milli-colt drop performance • Higher current capacity with minimized temperature rise • Reliability under vibration and shock • Contacts will handle up to 150% higher amperages than standard contacts • Contacts are stocked in size 8 (69 amps) and size 4 (120 amps). Also avaliable in size 12 (35 amps), size 0 (250 amps) and sizes 2/0 - 4/0 (500 amps) **AC Series with RADSOK:** • Single key/keyway shell polarization • Threaded coupling • Machined contacts • Operating Temperature Range -55°C ~ 125°C • Black zinc alloy finish **GT Series with RADSOK** • Audible, tactile and visual indication of full coupling • Waterproof - IP67 rated • Operating Temperature Range: -55°C ~ 125°C • UL recognized • Black zinc cobalt finish **Amphe®-GTR Reverse Bayonet Series** • Compression (setscrew) wire termination • UL/CUL 1977/1682/817 recognized • Quick positive coupling • Audible, tactile and visual indication of full coupling • Waterproof - IP67 rated • Operating Temperature Range: -55°C ~ 125°C

Fig.	Shell Size Insert Arrange-ment No.	No. Of Con-tacts/ Size	Description	Dimensions Inches A	B	C	Digi-Key Part No.	Price Each 1	10
AC (5015) Series with RADSOK									
1	18-7	1/8	Recept.	1.062	1.582	1.000	ACC02E18-7P(025)-ND	17.03	10.91
1	22-1	2/8	Recept.	1.250	1.582	1.250	ACC02E22-1P(025)-ND	20.88	14.62
1	20-19	3/8	Recept.	1.156	1.582	1.125	ACC02E20-19P(025)-ND	25.62	17.94
2	18-7	1/8	Plug	1.333	2.596	0.625	ACC06E18-7R(025)-ND	72.30	50.61
2	22-1	2/8	Plug	1.588	2.654	0.750	ACC06E22-1R(025)-ND	34.68	24.28
2	20-19	3/8	Plug	1.461	2.654	0.750	ACC06E20-19R(025)-ND	37.10	25.97
1	16-12	1/4	Recept.	0.969	1.582	0.875	ACC02E16-12P(025)-ND	14.38	9.21
1	24-9	2/4	Recept.	1.375	1.581	1.375	ACC02E24-9P(025)-ND	18.72	13.11
1	28-6	3/4	Recept.	1.562	1.581	1.625	ACC02E28-6P(025)-ND	25.14	17.60
2	16-12	1/4	Plug	1.250	2.524	0.531	ACC06E16-12R(025)-ND	39.52	27.67
2	24-9	2/4	Plug	1.715	2.885	0.938	ACC06E24-9R(025)-ND	56.22	39.36
2	28-6	3/4	Plug	1.968	2.885	0.938	ACC06E28-6R(025)-ND	74.76	52.34
1	22-22	4/8	Recept.	1.250	1.582	0.750	ACC02E22-22P(025)-ND	30.92	21.65
1	32-17	4/4	Recept.	1.750	1.581	1.875	ACC02E32-17P(025)-ND	32.54	22.78
2	22-22	4/8	Plug	1.588	2.654	0.750	ACC06E22-22R(025)-ND	57.74	40.42
2	32-17	4/4	Plug	2.209	2.943	1.250	ACC06E32-17R(025)-ND	98.90	69.23
3	16	—	Plug Cap	1.000	0.844	—	97-60-16P(621)-ND	10.59	6.36
4	16	—	Recept. Cap	1.125	0.434	—	97-60-16(621)-ND	7.71	4.37
3	18	—	Plug Cap	1.125	0.844	—	97-60-18P(621)-ND	11.13	7.79
4	18	—	Recept. Cap	1.313	0.434	—	97-60-18(621)-ND	8.64	4.91
3	20	—	Plug Cap	1.250	0.844	—	97-60-20P(621)-ND	19.00	12.40
4	20	—	Recept. Cap	1.434	0.434	—	97-60-20(621)-ND	9.54	5.73
3	22	—	Plug Cap	1.375	0.844	—	97-60-22P(621)-ND	19.52	12.75
4	22	—	Recept. Cap	1.563	0.434	—	97-60-22(621)-ND	9.99	6.00
3	24	—	Plug Cap	1.500	0.844	—	97-60-24P(621)-ND	23.35	15.24
4	24	—	Recept. Cap	1.688	0.434	—	97-60-24(621)-ND	11.85	8.30
3	28	—	Plug Cap	1.750	0.844	—	97-60-28P(621)-ND	15.18	10.63
4	28	—	Recept. Cap	1.923	0.500	—	97-60-28(621)-ND	11.48	8.04
3	32	—	Plug Cap	2.000	0.844	—	97-60-32P(621)-ND	34.99	22.40
4	32	—	Recept. Cap	2.188	0.500	—	97-60-32(621)-ND	17.68	12.38
GT Series with RADSOK									
5	18-7	1/8	Recept.	1.378	0.907	0.157	GTC03018-7P(025)-ND	23.04	16.13
5	22-1	2/8	Recept.	1.614	0.907	0.157	GTC03022-1P(025)-ND	34.94	24.46
5	20-19	3/8	Recept.	1.496	0.907	0.157	GTC03020-19P(025)-ND	40.42	28.30
6	18-7	1/8	Plug	1.437	4.921	0.562	GTC06F18-7S(RDS)(025)-ND	92.26	64.59
6	22-1	2/8	Plug	1.697	4.921	0.625	GTC06F22-1S(RDS)(025)-ND	142.48	99.74
6	20-19	3/8	Plug	1.571	4.921	0.625	GTC06F20-19S(RDS)(025)-ND	135.90	95.13
5	16-12	1/4	Recept.	1.280	0.846	0.126	GTC03016-12P(025)-ND	64.12	44.89
5	24-9	2/4	Recept.	1.752	0.907	0.157	GTC03024-9P(025)-ND	31.08	21.76
5	28-6	3/4	Recept.	2.000	0.947	0.157	GTC03028-6P(025)-ND	38.14	26.70
6	16-12	1/4	Plug	1.260	4.921	0.437	GTC06F16-12S(RDS)(025)-ND	100.92	70.65
6	24-9	2/4	Plug	1.835	4.921	0.750	GTC06F24-9S(RDS)(025)-ND	208.40	145.88
6	28-6	3/4	Plug	2.102	4.921	0.750	GTC06F28-6S(RDS)(025)-ND	341.92	239.35
5	22-22	4/8	Recept.	1.614	0.907	0.157	GTC03022-22P(025)-ND	47.32	33.13
5	32-17	4/4	Recept.	2.244	0.947	0.157	GTC03032-17P(025)-ND	44.42	31.10
6	22-22	4/8	Plug	1.697	4.921	0.625	GTC06F22-22S(RDS)(025)-ND	168.04	117.63
6	32-17	4/4	Plug	2.366	4.921	0.937	GTC06F32-17S(RDS)(025)-ND	452.90	317.03
7	16	—	Plug Cap	1.169	0.945	—	10-580903-16Y-ND	32.22	22.56
8	16	—	Recept. Cap	1.280	0.700	—	10-580902-16Y-ND	32.54	22.78
7	18	—	Plug Cap	1.303	0.945	—	10-580903-18Y-ND	28.42	18.19
8	18	—	Recept. Cap	1.457	0.900	—	10-580902-18Y-ND	30.90	21.63
7	20	—	Plug Cap	1.437	1.260	—	10-580903-20Y-ND	39.80	27.86
8	20	—	Recept. Cap	1.594	0.900	—	10-580902-20Y-ND	41.08	28.76
7	24	—	Plug Cap	1.701	1.260	—	10-580903-24Y-ND	39.58	27.71
8	24	—	Recept. Cap	1.850	0.900	—	10-580902-24Y-ND	35.34	24.74
7	28	—	Plug Cap	1.929	1.260	—	10-580903-28Y-ND	37.96	26.58
8	28	—	Recept. Cap	2.126	0.900	—	10-580902-28Y-ND	38.86	27.21
7	32	—	Plug Cap	2.193	1.260	—	10-580903-32Y-ND	39.82	27.88
8	32	—	Recept. Cap	2.382	0.900	—	10-580902-32Y-ND	39.82	27.88
NEW! Amphe®-GTR Reverse Bayonet NEW!									
9	—	4/4	Plug	2.626	4.829	0.582	GT06PCM32-ARS-30(29R)-ND	143.44	100.41
9	—	4/4	Plug	2.626	4.829	0.759	GT06PCM32-ARS-40(29R)-ND	143.44	100.41
9	—	4/4	Plug	2.626	4.829	0.905	GT06PCM32-ARS-50(29)-ND	143.44	100.41
9	—	4/4	Plug	2.626	4.829	1.185	GT06PCM32-ARS-70(29OS)-ND	143.44	100.41
5	—	4/4	Recept.	2.248	0.947	0.158	GT030PCM32-ARP-80-ND	53.86	37.71
9	—	5/4	Plug	2.626	4.829	0.787	10-610142-001-ND	154.02	107.82
9	—	5/4	Plug	2.626	4.829	0.984	10-610142-002-ND	154.02	107.82
9	—	5/4	Plug	2.626	4.829	0.797	10-610142-003-ND	154.02	107.82
9	—	5/4	Plug	2.626	4.829	0.797	10-610142-004-ND	154.02	107.82
5	—	5/4	Recept.	2.248	0.947	0.158	10-610147-001-ND	104.14	72.90
5	—	5/4	Recept.	2.248	0.947	0.158	10-610147-002-ND	104.14	72.90
5	—	5/4	Recept.	2.248	0.947	0.158	10-610222-001-ND	104.14	72.90
5	—	5/4	Recept.	2.248	0.947	0.158	10-610222-002-ND	104.14	72.90

RADSOK® Amphe - PD

Features: • 6 AWG • UL Listed 69A • 94V-0 Flame Retardant • Positive Locking • Tool-less Assembly
Target Applications: • Battery Connection • Busbar Connection • Power Supply Connection

Fig. 1

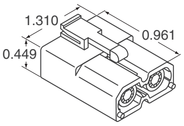

Fig. 2

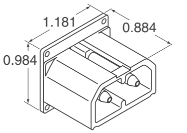

Fig.	No. Of Contacts/ Size	Description	Type	Digi-Key Part No.	Price Each 1	10	50	100
1	2	Plug	Crimp	C10-638974-000-ND	15.25	10.68	7.93	7.78
2	2	Recept.	Busbar	C10-638975-000-ND	14.93	10.45	7.77	7.62
2	2	Recept.	Crimp	C10-638976-000-ND	14.95	10.47	7.78	7.63
2	2	Recept.	PCB	C10-638977-000-ND	14.10	9.87	7.34	7.20

ASTRO TOOL CORP.
CONNECTOR ASSEMBLY TOOLING

Tools

Description	Digi-Key Part No.	Price Each	Astro Tool Corp. Part No.
Pneumatic Crimp Tool without Dies	AMT23B-ND	1250.20	AMT23B
Size 8 Die Set for use with AMT23B-ND	AMT23002DA-ND	231.49	AMT23002DA
Locator to use with AMT23002DA-ND	AMT23161L-ND	48.88	AMT23161L
Size 4 Die Set to use with AMT23B	AMT23004DA-ND	231.49	AMT23004DA
Locator to use with AMT23004DA-ND	AMT23163L-ND	48.88	AMT23163L

Circular Bayonet Lock Connectors

Fig. 1

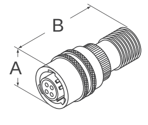

Fig. 2

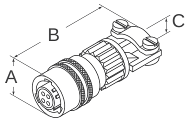

Fig. 3

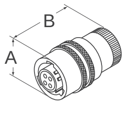

Fig. 4

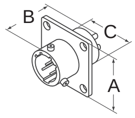

Fig. 5

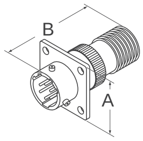

Fig. 6

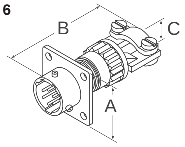

Fig. 7

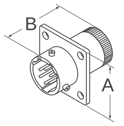

Fig. 8

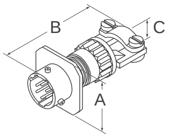

Fig. 9

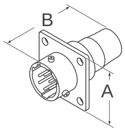

Fig. 10

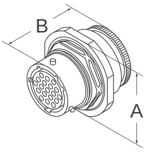

CONTACT
LEGEND
● 16
○ 20

Insert Patterns ***(Front face of pin insert shown. Drawings not to scale.)***

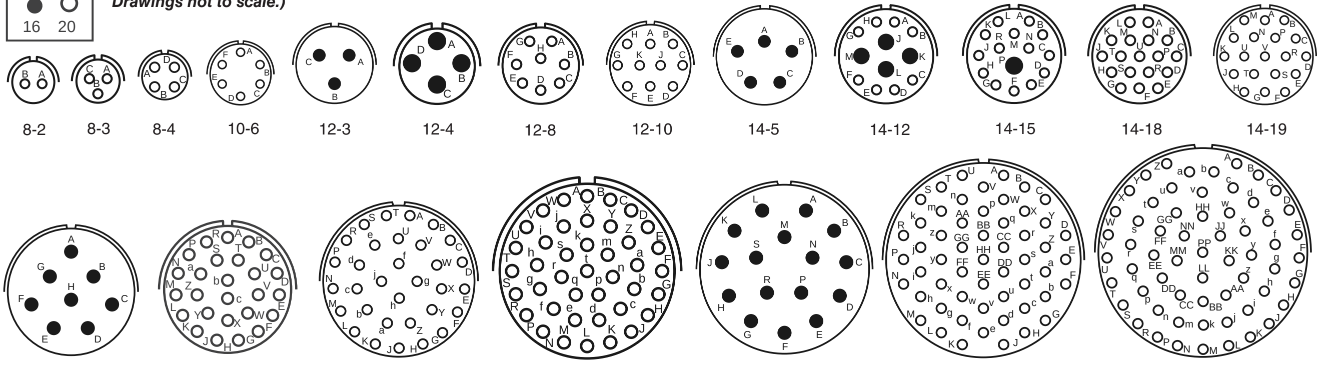

8-2 8-3 8-4 10-6 12-3 12-4 12-8 12-10 14-5 14-12 14-15 14-18 14-19

16-8 16-26 18-32 20-41 20-16 22-55 24-61

Aluminum shell components. Standard olive drab, electrically conductive cadmium plated. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene.

Solder contacts are installed. Pins and sockets are copper alloy/gold plated.

PT solder series is UL recognized under file #E115497, Section 5

PT with Solder Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. in Inches			Digi-Key Part No.	Price Each	
				A	B	C		1	10
2	8-2	2/20	Plug w/sockets	.750	1.906	.125	PT06A-8-2S(SR)-ND*	25.60	16.71
4			Recept. w/pins	.812	.825	.449	PT02A-8-2P-ND	11.65	8.16
2	8-3	3/20	Plug w/sockets	.750	1.906	.125	PT06A-8-3S(SR)-ND*	25.43	16.28
2			Plug w/sockets	.750	1.906	.125	PT06E-8-3S(SR)-ND*	27.07	17.33
4			Recept. w/pins	.812	.825	.449	PT02A-8-3P-ND	13.05	9.14
4			Recept. w/pins	.812	.825	.449	PT02E-8-3P-ND	12.21	7.33
1	8-4	4/20	Plug w/sockets	.750	1.609	—	PT06A-8-4S-ND	18.26	11.92
2			Plug w/pins	.750	1.906	.125	PT06E8-4P(SR)-ND*	17.95	12.57
2			Plug w/sockets	.750	1.906	.125	PT06E8-4S(SR)-ND*	26.93	17.24
2			Plug w/pins	.750	1.906	.125	PT06A-8-4P(SR)-ND*	24.01	15.68
2			Plug w/sockets	.750	1.906	.125	PT06A-8-4S(SR)-ND*	24.53	16.02
3			Plug w/sockets	.750	1.266	—	PT06E-8-4S-ND	19.76	12.90
4			Recept. w/pins	.812	.825	.449	PT02A8-4P-ND	12.39	7.44
4			Recept. w/sockets	.812	.825	.449	PT02A8-4S-ND	12.05	8.44
4			Recept. w/pins	.812	.825	.449	PT02E-8-4P-ND	12.00	8.40
4			Recept. w/sockets	.812	.825	.449	PT02E-8-4S-ND	11.76	7.06
2	10-6	6/20	Plug w/pins	.869	1.906	.188	PT06E10-6P(SR)-ND*	18.41	12.02
2			Plug w/sockets	.869	1.906	.188	PT06E10-6S(SR)-ND*	30.42	19.47
2			Plug w/pins	.859	1.906	.188	PT06A-10-6P(SR)-ND*	24.27	15.85
2			Plug w/sockets	.859	1.906	.188	PT06A-10-6S(SR)-ND*	28.26	18.09
4			Recept. w/pins	.938	.825	.573	PT02A10-6P-ND	11.95	8.37
4			Recept. w/sockets	.938	.825	.573	PT02A10-6S-ND	13.33	9.33
4			Recept. w/pins	.938	.825	.573	PT02E-10-6P-ND	13.83	9.68
4			Recept. w/sockets	.938	.825	.573	PT02E-10-6S-ND	15.80	11.06
5			Recept. w/pins	.938	1.553	—	PT00A-10-6P-ND	21.38	13.95
7			Recept. w/pins	.938	1.266	—	PT00E-10-6P-ND	24.25	15.83
8			Recept. w/pins	.938	1.922	.188	PT01A-10-6P(SR)-ND*	23.30	15.21
1	12-3	3/16	Plug w/sockets	1.013	1.609	—	PT06A-12-3S-ND	18.03	12.62
2			Plug w/pins	1.013	1.906	.312	PT06E12-3P(SR)-ND*	20.38	13.30
2			Plug w/sockets	1.013	1.906	.312	PT06E12-3S(SR)-ND*	21.80	14.23
2			Plug w/pins	1.013	1.906	.312	PT06A-12-3P(SR)-ND*	24.89	16.25
2			Plug w/sockets	1.013	1.906	.312	PT06A-12-3S(SR)-ND*	25.60	16.71
4			Recept. w/pins	1.031	.825	.699	PT02A12-3P-ND	11.16	6.70
4			Recept. w/sockets	1.031	.825	.699	PT02A12-3S-ND	17.53	12.27
4			Recept. w/pins	1.031	.825	.699	PT02E-12-3P-ND	12.54	7.53
2	12-4	4/16	Plug w/pins	1.013	1.906	.312	PT06A-12-4P(SR)-ND*	27.72	17.75
4			Recept. w/sockets	1.031	.825	.699	PT02E-12-4S-ND	18.81	12.28
1	12-8	8/20	Plug w/pins	1.013	1.609	—	PT06A-12-8P-ND	20.85	13.61
1			Plug w/sockets	1.013	1.609	—	PT06A-12-8S-ND	22.21	14.50
2			Plug w/pins	1.013	1.906	.312	PT06E-12-8P(SR)-ND*	26.06	16.68
2			Plug w/sockets	1.013	1.906	.312	PT06E-12-8S(SR)-ND*	32.06	20.52
4			Recept. w/pins	1.031	.825	.699	PT02E-12-8P-ND	13.25	9.28
2	12-10	10/20	Plug w/pins	1.013	1.906	.312	PT06E12-10P(SR)-ND*	22.33	14.57
2			Plug w/sockets	1.013	1.906	.312	PT06E12-10S(SR)-ND*	24.41	15.63
2	12-10	10/20	Plug w/pins	1.013	1.906	.312	PT06A-12-10P(SR)-ND*	17.46	11.40
2			Plug w/sockets	1.013	1.906	.312	PT06A-12-10S(SR)-ND*	22.44	14.65
4			Recept. w/pins	1.031	.825	.699	PT02A12-10P-ND	16.25	11.38
4			Recept. w/sockets	1.031	.825	.699	PT02A12-10S-ND	17.13	11.99
4			Recept. w/pins	1.031	.825	.699	PT02E-12-10P-ND	13.78	9.65
4			Recept. w/sockets	1.031	.825	.699	PT02E-12-10S-ND	13.35	9.35
2	14-5	5/16	Plug w/pins	1.156	1.906	.375	PT06E14-5P(SR)-ND*	27.61	17.67
2			Plug w/sockets	1.156	1.906	.375	PT06E14-5S(SR)-ND*	24.14	15.46
2			Plug w/sockets	1.156	1.906	.375	PT06A-14-5S(SR)-ND*	29.99	19.20
4			Recept. w/pins	1.125	.825	.823	PT02A14-5P-ND	14.90	10.43
4			Recept. w/sockets	1.125	.825	.823	PT02A14-5S-ND	21.04	13.74
4			Recept. w/pins	1.125	.825	.823	PT02E-14-5P-ND	12.18	8.53
2	14-12	8/#20, 4/#16	Plug w/pins	1.156	1.906	.375	PT06A-14-12P(SR)-ND*	21.26	13.88
2			Plug w/sockets	1.156	1.906	.375	PT06E-14-12S(SR)-ND*	24.56	16.03
4			Recept. w/pins	1.125	.825	.823	PT02E-14-12P-ND	12.48	8.74
4			Recept. w/sockets	1.125	.825	.823	PT02E-14-12S-ND	22.90	14.95
4			Recept. w/sockets	1.125	.825	.823	PT02A-14-12S-ND	20.76	13.55
4	14-15	14/#20, 1/#16	Recept. w/pins	1.125	.825	.823	PT02A-14-15P-ND	13.80	9.66
1	14-18	18/20	Plug w/pins	1.156	1.609	—	PT06A-14-18P-ND	19.24	12.56
2			Plug w/sockets	1.156	1.906	.375	PT06E-14-18S(SR)-ND*	29.23	18.71
4			Recept. w/pins	1.125	.825	.823	PT02A-14-18P-ND	18.28	12.80
4			Recept. w/sockets	1.125	.825	.823	PT02E-14-18S-ND	18.15	11.85
2	14-19	19/20	Plug w/pins	1.156	1.906	.375	PT06E14-19P(SR)-ND*	25.10	16.39
2			Plug w/sockets	1.156	1.906	.375	PT06E14-19S(SR)-ND*	28.01	17.93
2			Plug w/pins	1.156	1.906	.375	PT06A-14-19P(SR)-ND*	29.81	19.08
4			Recept. w/pins	1.125	.825	.823	PT02A14-19P-ND	18.50	12.95
4			Recept. w/sockets	1.125	.825	.823	PT02A14-19S-ND	19.14	12.50
2	16-8	8/16	Plug w/pins	1.281	2.047	.500	PT06E16-8P(SR)-ND*	34.81	22.28
2			Plug w/sockets	1.281	2.047	.500	PT06E16-8S(SR)-ND*	34.02	23.82
4			Recept. w/pins	1.219	.825	.949	PT02A16-8P-ND	14.18	9.93
4			Recept. w/sockets	1.219	.825	.949	PT02A16-8S-ND	16.85	11.80
4	16-26	26/20	Recept. w/pins	1.219	.825	.949	PT02A-16-26P-ND	21.68	14.16
2	20-16	16/16	Plug w/pins	1.531	2.250	.625	PT06E20-16P(SR)-ND*	43.08	30.16
2			Plug w/sockets	1.531	2.250	.625	PT06E20-16S(SR)-ND*	43.52	30.47
4			Recept. w/pins	1.438	1.076	1.199	PT02A20-16P-ND	27.47	17.59
4			Recept. w/sockets	1.438	1.076	1.199	PT02A20-16S-ND	34.66	24.27
2	22-55	55/20	Plug w/pins	1.656	2.250	.750	PT06E22-55P(SR)-ND*	53.94	37.76
2			Plug w/sockets	1.656	2.250	.750	PT06E22-55S(SR)-ND*	67.12	46.99
4			Recept. w/pins	1.562	1.076	1.323	PT02A22-55P-ND	33.42	23.40
4			Recept. w/sockets	1.562	1.076	1.323	PT02A22-55S-ND	37.94	26.56
1	24-61	61/20	Plug w/pins	1.776	1.750	—	PT06A-24-61P-ND	53.48	37.44
1			Plug w/sockets	1.776	1.750	—	PT06A-24-61S-ND	58.28	40.80

*(SR) at end of part number designates that a strain relief is included

(Continued)

Amphenol® Circular Bayonet Lock Connectors *(Cont.)*

MS with Solder Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. in Inches			Digi-Key Part No.	Price Each	
				A	B	C		1	10
2	8-2	2/20	Plug w/sockets	.750	1.906	.125	MS3116F-8-2S-ND†	22.09	14.42
3			Plug w/sockets	.750	1.266	—	MS3116E-8-2S-ND*	15.55	10.89
4			Recept. w/pins	.812	.825	.449	MS3112E-8-2P-ND*	12.63	7.58
3	8-3	3/20	Plug w/pins	.750	1.266	—	MS3116E-8-3P-ND*	17.18	12.03
3			Plug w/sockets	.750	1.266	—	MS3116E-8-3S-ND*	18.18	12.73
2			Plug w/sockets	.750	1.906	.125	MS3116F-8-3S-ND†	20.78	13.57
4			Recept. w/pins	.812	.825	.449	MS3112E-8-3P-ND*	11.37	6.83
4			Recept. w/sockets	.812	.825	.449	MS3112E-8-3S-ND	11.75	8.23
2	8-4	4/20	Plug w/pins	.750	1.906	.125	MS3116F-8-4P-ND†	19.50	12.73
3			Plug w/sockets	.750	1.266	—	MS3116E-8-4S-ND*	17.08	11.96
2			Plug w/sockets	.750	1.906	.125	MS3116F-8-4S-ND†	21.90	14.30
4			Recept. w/pins	.812	.825	.449	MS3112E-8-4P-ND*	11.43	6.86
4			Recept. w/sockets	.812	.825	.449	MS3112E-8-4S-ND*	14.45	10.12
2	10-6	6/20	Plug w/pins	.859	1.906	.188	MS3116F-10-6P-ND†	18.60	12.14
2			Plug w/sockets	.859	1.906	.188	MS3116F-10-6S-ND†	19.95	13.02
6			Recept. w/pins	.938	1.922	.188	MS3110F-10-6P-ND†	28.17	18.03
6			Recept. w/sockets	.938	1.922	.188	MS3110F-10-6S-ND†	30.17	19.31
4			Recept. w/pins	.938	.825	.573	MS3112E-10-6P-ND*	12.06	7.24
4			Recept. w/sockets	.938	.825	.573	MS3112E-10-6S-ND*	11.68	8.18
3			Plug w/sockets	.859	1.266	—	MS3116E-10-6S-ND*	17.50	11.43
2	12-3	3/16	Plug w/pins	1.013	1.906	.312	MS3116F-12-3P-ND†	22.25	14.53
2			Plug w/sockets	1.013	1.906	.312	MS3116F-12-3S-ND†	24.77	16.17
4			Recept. w/pins	1.031	.825	.699	MS3112E-12-3P-ND*	10.58	7.41
4			Recept. w/sockets	1.031	.825	.699	MS3112E-12-3S-ND*	13.35	9.35
2	12-10	10/20	Plug w/pins	1.013	1.906	.312	MS3116F-12-10P-ND†	23.49	15.33
2			Plug w/sockets	1.013	1.906	.312	MS3116F-12-10S-ND†	24.01	15.68
4			Recept. w/pins	1.031	.825	.699	MS3112E-12-10P-ND*	11.88	8.32
4			Recept. w/sockets	1.031	.825	.699	MS3112E-12-10S-ND*	21.71	14.17
2	14-12	18/#20, 4/#16	Plug w/sockets	1.156	1.906	.375	MS3116F-14-12S-ND†	31.03	19.86
4			Recept. w/pins	1.125	.825	.823	MS3112E-14-12P-ND*	18.93	12.36
2	14-18	18/20	Plug w/sockets	1.156	1.906	.375	MS3116F-14-18S-ND†	35.06	24.55
4			Recept. w/pins	1.125	.825	.823	MS3112E-14-18P-ND*	21.52	14.05
2	14-19	19/20	Plug w/sockets	1.156	1.906	.375	MS3116F-14-19S-ND†	34.62	24.24
4			Recept. w/pins	1.125	.825	.823	MS3112E-14-19P-ND*	18.20	12.74
2	16-26	26/20	Plug w/sockets	1.281	2.047	.500	MS3116F-16-26S-ND†	35.42	24.80
4			Recept. w/pins	1.219	.825	.949	MS3112E-16-26P-ND*	20.02	13.07
2	18-32	32/20	Plug w/pins	1.319	2.078	.625	MS3116F-18-32P-ND†	43.62	30.54
2	20-41	41/20	Plug w/sockets	1.531	2.250	.625	MS3116F-20-41S-ND†	54.58	38.21
2	22-55	55/20	Plug w/pins	1.656	2.250	.750	MS3116F22-55P-ND†	63.28	44.30
4			Recept. w/pins	1.562	1.076	1.323	MS3112E-22-55P-ND*	33.66	21.55

* Environmental resistant supplied with a multi-holed grommet and clamping nut for moisture-proofing individual open wires † Grommet seal with strain relief clamp

Aluminum shell components. Standard olive drab, electrically conductive cadmium plated. Dependable 5 key/keyway polarization with bayonet lock coupling assures positive mating. Spring tension provided by a wave washer in the coupling nut ensures maintenance of interfacial seal between mating halves. Insert and main joint gasket molded from resilient neoprene.

Crimp contacts are included, but not installed. (See contact hand crimping tools and contact installation/removal tools recommended below). Pins and sockets are copper alloy/gold plated.

Strain relief is included on plug.

PT-SE with Crimp Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. in Inches			Digi-Key Part No.	Price Each	
				A	B	C		1	10
2	10-6	6/20	Plug w/pins	.859	2.413	.188	PT06SE10-6P(SR)-ND*	32.74	20.96
2			Plug w/sockets	.859	2.413	.188	PT06SE10-6S(SR)-ND*	28.37	18.16
9			Recept. w/pins	.954	1.296	—	PT02SE10-6P-ND	27.72	17.75
9			Recept. w/sockets	.954	1.296	—	PT02SE10-6S-ND	33.75	21.60
2	12-10	10/20	Plug w/pins	1.031	2.413	.312	PT06SE12-10P(SR)-ND*	32.46	22.73
2			Plug w/sockets	1.031	2.413	.312	PT06SE12-10S(SR)-ND*	27.32	17.49
9			Recept. w/pins	1.047	1.296	—	PT02SE12-10P-ND	28.04	17.95
9			Recept. w/sockets	1.047	1.296	—	PT02SE12-10S-ND	32.44	22.71
2	16-8	8/16	Plug w/pins	1.281	2.528	.500	PT06SE16-8P(SR)-ND*	46.06	32.25
2			Plug w/sockets	1.281	2.528	.500	PT06SE16-8S(SR)-ND*	56.62	39.64
9			Recept. w/pins	1.234	1.296	—	PT02SE16-8P-ND	44.90	31.43
9			Recept. w/sockets	1.234	1.296	—	PT02SE16-8S-ND	50.88	35.62
2	18-32	32/20	Plug w/pins	1.391	2.528	.625	PT06SE18-32P(SR)-ND*	59.50	41.65
2			Plug w/sockets	1.391	2.528	.625	PT06SE18-32S(SR)-ND*	70.54	49.38
9			Recept. w/pins	1.328	1.296	—	PT02SE18-32P-ND	54.26	37.99
9			Recept. w/sockets	1.328	1.296	—	PT02SE18-32S-ND	57.60	40.32
2	20-16	16/16	Plug w/pins	1.531	2.753	.625	PT06SE20-16P(SR)-ND*	32.36	22.66
2			Plug w/sockets	1.531	2.753	.625	PT06SE20-16S(SR)-ND*	73.00	51.10
9			Recept. w/pins	1.453	1.358	—	PT02SE20-16P-ND	53.94	37.76
9			Recept. w/sockets	1.453	1.358	—	PT02SE20-16S-ND	65.48	45.84
2	22-55	55/20	Plug w/pins	1.656	2.753	.750	PT06SE22-55P(SR)-ND*	73.86	51.71
2			Plug w/sockets	1.656	2.753	.750	PT06SE22-55S(SR)-ND*	57.36	40.16
9			Recept. w/pins	1.578	1.358	—	PT02SE22-55P-ND	71.42	50.00
9			Recept. w/sockets	1.578	1.358	—	PT02SE22-55S-ND	82.82	57.98
2	24-61	61/20	Plug w/pins	1.777	2.830	.800	PT06SE24-61P(SR)-ND*	56.66	39.67
2			Plug w/sockets	1.777	2.830	.800	PT06SE24-61S(SR)-ND*	72.16	50.52
9			Recept. w/pins	1.703	1.358	—	PT02SE24-61P-ND	81.32	56.93
9			Recept. w/sockets	1.703	1.358	—	PT02SE24-61S-ND	108.78	76.15

* (SR) at end of part number designates that a strain relief is included.

Replacement Crimp Contacts

Desc.	Contact Size	Digi-Key Part No.	Price Each		
			1	10	50
Replacement Pin	16	10-314980-16P-ND	1.62	.97	.63
Replacement Pin	20	10-314980-20P-ND	1.00	.60	.39
Replacement Socket	16	10-257982-16F-ND	2.66	1.59	1.04
Replacement Socket	20	LP-597820-355-ND	1.54	.92	.60

MS with Crimp Contacts (MIL-C-26482 Series 1 Type)

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dim. in Inches			Digi-Key Part No.	Price Each	
				A	B	C		1	10
2	10-6	6/20	Plug w/pins	—	2.413	.188	MS3126F-10-6P-ND	27.83	17.82
2			Plug w/sockets	—	2.413	.188	MS3126F-10-6S-ND	28.07	18.33
6			Recept. w/pins	.954	2.422	.188	MS3120F-10-6P-ND	33.30	21.32
6			Recept. w/sockets	.954	2.422	.188	MS3120F-10-6S-ND	32.27	20.65
9			Recept. w/pins	.954	1.296	—	MS3122E-10-6P-ND	29.33	19.15
8			Recept. w/sockets	.955	2.422	.188	MS3121F-10-6S-ND	33.03	21.14
2	12-3	3/16	Plug w/sockets	1.031	2.413	.312	MS3126F-12-3S-ND	34.18	21.88
6			Recept. w/pins	1.047	2.422	.312	MS3120F-12-3P-ND	32.00	20.48
9			Recept. w/pins	1.047	1.296	—	MS3122E-12-3P-ND	25.94	16.61
2	12-10	10/20	Plug w/pins	1.031	2.413	.312	MS3126F-12-10P-ND	29.63	18.97
2			Plug w/sockets	1.031	2.413	.312	MS3126F-12-10S-ND	28.79	18.79
7			Recept. w/pins	1.047	1.328	.312	MS3120E-12-10P-ND	35.98	23.49
9			Recept. w/pins	1.047	1.296	—	MS3122E-12-10P-ND	24.20	15.80
9			Recept. w/sockets	1.047	1.296	—	MS3122E-12-10S-ND	23.39	15.27
2	14-5	5/16	Plug w/sockets	1.156	2.413	.375	MS3126F-14-5S-ND	37.87	24.24
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-5P-ND	24.75	16.16
2	14-12	8/#20, 4/#16	Plug w/sockets	1.156	2.413	.375	MS3126F-14-12S-ND	40.05	25.64
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-12P-ND	28.01	17.93
2	14-15	14/#20, 1/#16	Plug w/sockets	1.156	2.413	.375	MS3126F-14-15S-ND	38.43	24.60
2	14-18	18/20	Plug w/sockets	1.156	2.413	.375	MS3126F-14-18S-ND	33.93	21.72
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-18P-ND	29.16	18.67
2	14-19	19/20	Plug w/pins	1.156	2.413	.375	MS3126F-14-19P-ND	37.60	24.07
2			Plug w/sockets	1.156	2.413	.375	MS3126F-14-19S-ND	35.73	22.87
9			Recept. w/pins	1.141	1.296	—	MS3122E-14-19P-ND	30.13	19.29
6			Recept. w/sockets	1.141	2.422	.375	MS3120F-14-19S-ND	35.94	25.16
10			Recept. w/sockets	1.391	1.438	—	MS3124E-14-19S-ND	47.04	32.93
2	16-8	8/16	Plug w/pins	1.281	2.528	.500	MS3126F-16-8P-ND	34.90	22.34
2	16-26	26/20	Plug w/pins	1.281	2.528	.500	MS3126F-16-26P-ND	39.40	27.58
2			Plug w/sockets	1.281	2.528	.500	MS3126F-16-26S-ND	39.16	27.42
9			Recept. w/pins	1.234	1.296	—	MS3122E-16-26P-ND	36.86	23.59
2	18-11	11/16	Plug w/sockets	1.391	2.528	.625	MS3126F-18-11S-ND	54.56	38.20
2	20-16	16/16	Plug w/sockets	1.531	2.753	.625	MS3126F-20-16S-ND	62.58	43.81
2	20-41	41/20	Plug w/sockets	1.531	2.753	.625	MS3126F-20-41S-ND	52.06	36.45
6			Recept. w/sockets	1.453	2.824	.625	MS3120F-20-41S-ND	57.24	36.64
9			Recept. w/pins	1.453	1.358	—	MS3122E-20-41P-ND	46.08	32.26
2	22-55	55/20	Plug w/sockets	1.656	2.753	.750	MS3126F-22-55S-ND	57.82	40.48
9			Recept. w/pins	1.578	1.358	—	MS3122E-22-55P-ND	50.84	35.59
9			Recept. w/sockets	1.578	1.358	—	MS3122E-22-55S-ND	52.14	36.50
2	24-61	61/20	Plug w/sockets	1.777	2.830	.800	MS3126F-24-61S-ND	71.94	50.36

ASTRO TOOL CORP.
CONNECTOR ASSEMBLY TOOLING

Tools

Contact Size	Hand Crimping Tool Military Standard Tool Part No.				Insertion Tool						Removal Tool			
	Tool Frame	Price Each	Turret Head	Price Each	Production Metal Pliers	Price Each	Prototype Plastic	Price Each	Military Standard Part No.	Price Each	Prototype	Price Each	Military Standard Part No.	Price Each
20	615708-ND	246.05	615709-ND	94.16	ATBX1-8107-20-ND	166.38	ATA1086-ND	28.06	ATML1703B-ND	25.67	AT2020-ND	33.72	M81969/19B-06-ND	33.72
16	615708-ND	246.05	615709-ND	94.16	ATBX1-8107-16-ND	166.38	ATA1101-ND	33.72	ATML1704B-ND	25.67	AT2016-ND	33.72	M81969/19B-01-ND	51.27

Amphenol®

Circular 97 Series Threaded Connectors

with Solder Contacts (MIL-C-5015 Type)

Underwriters Laboratories approved recognition
File E115497. Canadian Standard Association
Certification File LR69183

Low cost, general duty, non-environmental MIL-C-5015 type connectors. Available in either A solid or B split shell styles. Used extensively in the machine tool industry, welding industry and numerous other commercial applications. • Single key/keyway polarization • Threaded coupling • Hard dielectric inserts made of diallyl-phthalate • Aluminum alloy components with a conductive cadmium plate finish and olive chromate after-treatment • Contacts are solder type, silver plated with pre-tinned solder cups • Cable clamps are zinc alloy with olive drab/green chromate finish

Fig. 1 — Straight Plug (97 Series)

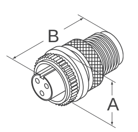

Coupling ring machined from solid aluminum bar stock for high tensile strength. Mates with all types of 97 series receptacles. Front shell includes polarization keyway. Solid shell. Threaded backshell.

Fig. 2 — Angle Plug (97 Series)

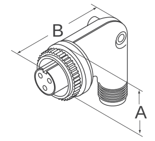

Shell is split longitudinally for convenient solder or inspection. Front shell is keyed to allow the 90 degree angle housing to be rotated and locked at any 45 degree increment.

Fig. 3 — Cable Receptacle

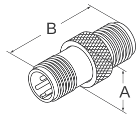

Fig. 4 — Box Mount Receptacle

Mounting Holes
.147 Diameter sizes 24,28
.120 Diameter all other sizes

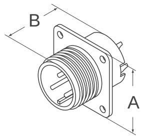

Fig. 5 — Wall Mount Receptacle

Mounting Holes
.147 Diameter sizes 24, 28
.120 Diameter all other sizes

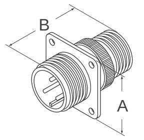

Fig. 6 — Cable Clamp

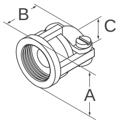

Fig. 7 — Bushing

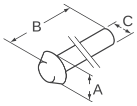

Fig. 8 — Straight Plug

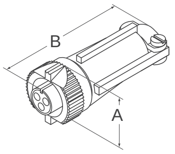

Fig. 9 — Straight Plug

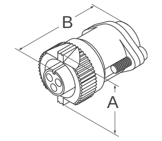

Insert Patterns
(Front face of pin insert shown. Drawings not to scale.)

CONTACT LEGEND
● ⊕ ◉
16 12 8

SERVICE RATING:

		INST	A	D	E	B	C
Limited Operating	DC	250	700	1250	1750	2450	4200
Voltages at Sea Level	AC(rms)	200	500	900	1250	1750	3000

TEST CURRENT: Contact Size 16 = 13 amperes, Contact Size 12 = 23 amperes
NOTE: Transients were not considered in calculating these values.
NOTE: Limiting operating voltage at 50,000 feet altitude are approximately 25% of the sea level values.

Insert Arrangement Service Rating

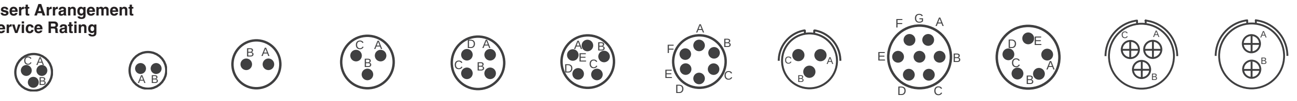

10SL-3 A | 10SL-4 A | 12S-3 A | 14S-1 A | 14S-2 INST. | 14S-5 INST. | 14S-6 INST. | 14S-7 A | 16S-1 A | 16S-8 A | 16-10 A | 16-11 A

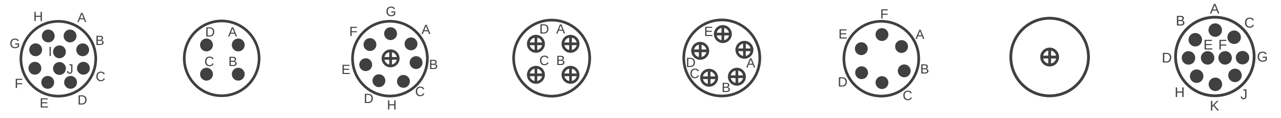

18-1 B,C,F,G = A all others = INST. | 18-4 D | 18-8 A | 18-10 A | 18-11 A | 18-12 A | 18-16 C | 18-19 A

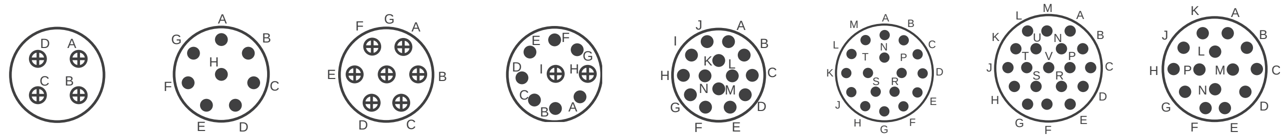

20-4 D | 20-7 A,B,H,G = D C,D,E,F = A | 20-15 A | 20-16 A | 20-27 A | 20-29 A | 22-14 A | 22-19 A

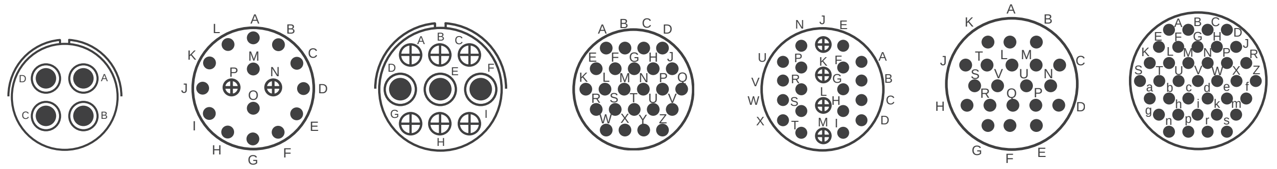

22-22 A | 24-7 A | 24-11 A | 24-28 INST. | 28-11 A | 28-16 A | 28-21 A

97 Series Plugs and Receptacles

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	Dimensions (Inches) B	Digi-Key Part No.	Price Each 1	Price Each 10
1	10SL-3	3/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-3S-ND	14.68	10.28
2			Plug with Socket	7/8	1-1/2	97-3108B-10SL-3S-ND	18.60	12.14
3			Recept. with Pins	1	1-9/32	97-3101A-10SL-3P-ND	17.20	12.04
4			Recept. with Pins	3/4	1-9/32	97-3102A-10SL-3P-ND	11.85	7.11
1	10SL-4	2/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-4S-ND	13.90	9.73
2			Plug with Socket	7/8	1-1/2	97-3108B-10SL-4S-ND	17.77	11.60
3			Recept. with Pins	1	1-9/32	97-3101A-10SL-4P-ND	16.40	11.48
4			Recept. with Pins	1	1-9/32	97-3102A-10SL-4P-ND	10.92	6.56

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	Dimensions (Inches) B	Digi-Key Part No.	Price Each 1	Price Each 10
1	12S-3	2/16	Plug with Pins	1	1-7/16	97-3106A-12S-3P-ND	12.70	8.89
			Plug with Socket	1	1-7/16	97-3106A-12S-3S-ND	13.58	9.51
4			Recept. with Pins	1-3/32	1-15/32	97-3102A-12S-3P-ND	9.03	5.42
			Recept. with Socket	1-3/32	1-15/32	97-3102A-12S-3S-ND	9.75	5.85
1	14S-1	3/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-1P-ND	14.68	10.28
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-1S-ND	15.00	10.50
2			Plug with Pins	1-1/8	1-23/32	97-3108B-14S-1P-ND	17.00	11.90
			Plug with Socket	1-1/8	1-23/32	97-3108B-14S-1S-ND	17.45	12.22

(Continued)

97 Series Plugs and Receptacles *(Cont.)*

Fig.	Shell Size Insert Arrange- ment No.	No. of Contacts/ Size	Description	Dimensions (Inches)		Digi-Key Part No.	Price Each	
				A	B		1	10
5	14S-1	3/16	Recept. with Pins Recept. with Socket	1-3/16 1-3/16	1-15/32 1-15/32	97-3100A-14S-1P-ND 97-3100A-14S-1S-ND	14.68 15.00	10.28 10.50
3			Recept. with Pins Recept. with Socket	7/8 7/8	1-15/32 1-15/32	97-3101A-14S-1P-ND 97-3101A-14S-1S-ND	18.05 17.41	12.64 11.37
1	14S-2	4/16	Plug with Pins Plug with Socket	1-1/8 1-1/8	1-15/32 1-15/32	97-3106A-14S-2P-ND 97-3106A-14S-2S-ND	14.58 15.73	10.21 11.01
2			Plug with Pins Plug with Socket	1-1/8 1-1/8	1-23/32 1-23/32	97-3108B-14S-2P-ND 97-3108B-14S-2S-ND	16.88 17.31	11.82 11.30
5			Recept. with Pins Recept. with Socket	1-3/16 1-3/16	1-15/32 1-15/32	97-3100A-14S-2P-ND 97-3100A-14S-2S-ND	16.30 17.70	11.41 12.39
3			Recept. with Pins Recept. with Socket	7/8 7/8	1-15/32 1-15/32	97-3101A-14S-2P-ND 97-3101A-14S-2S-ND	17.95 18.07	12.57 11.80
1	14S-5	5/16	Plug with Pins Plug with Socket	1-1/8 1-1/8	1-15/32 1-15/32	97-3106A-14S-5P-ND 97-3106A-14S-5S-ND	16.30 16.90	11.41 11.83
2			Plug with Pins Plug with Socket	1-1/8 1-1/8	1-23/32 1-23/32	97-3108B-14S-5P-ND 97-3108B-14S-5S-ND	17.53 18.07	11.44 11.80
5			Recept. with Pins Recept. with Socket	1-3/16 1-3/16	1-15/32 1-15/32	97-3100A-14S-5P-ND 97-3100A-14S-5S-ND	16.30 16.90	11.41 11.83
3			Recept. with Pins Recept. with Socket	7/8 7/8	1-15/32 1-15/32	97-3101A-14S-5P-ND 97-3101A-14S-5S-ND	18.38 19.19	12.00 12.53
1	14S-6	6/16	Plug with Pins Plug with Socket	1-1/8 1-1/8	1-15/32 1-15/32	97-3106A-14S-6P-ND 97-3106A-14S-6S-ND	16.90 17.03	11.83 11.92
2			Plug with Pins Plug with Socket	1-1/8 1-1/8	1-23/32 1-23/32	97-3108B-14S-6P-ND 97-3108B-14S-6S-ND	18.07 18.55	11.80 12.11
5			Recept. with Pins Recept. with Socket	1-3/16 1-3/16	1-15/32 1-15/32	97-3100A-14S-6P-ND 97-3100A-14S-6S-ND	16.90 17.03	11.83 11.92
3			Recept. with Pins Recept. with Socket	7/8 7/8	1-15/32 1-15/32	97-3101A-14S-6P-ND 97-3101A-14S-6S-ND	19.19 19.64	12.53 12.82
1	16S-1	7/16	Plug with Pins Plug with Socket	1-1/4 1-1/4	1-15/32 1-15/32	97-3106A-16S-1P-ND 97-3106A-16S-1S-ND	16.90 17.86	11.83 11.66
4			Recept. with Pins Recept. with Socket	1-9/32 1-9/32	1-15/32 1-15/32	97-3102A-16S-1P-ND 97-3102A-16S-1S-ND	11.88 13.93	8.32 9.75
1	16S-8	5/16	Plug with Pins Plug with Socket	1-1/4 1-1/4	1-15/32 1-15/32	97-3106A-16S-8P-ND 97-3106A-16S-8S-ND	16.40 17.00	11.48 11.90
4			Recept. with Pins Recept. with Socket	1-9/32 1-9/32	1-15/32 1-15/32	97-3102A-16S-8P-ND 97-3102A-16S-8S-ND	11.73 12.18	8.21 8.53
1	18-1	10/16	Plug with Pins Plug with Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-1P-ND 97-3106A-18-1S-ND	21.07 23.30	13.75 15.21
2			Plug with Pins Plug with Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-1P-ND 97-3108B-18-1S-ND	25.49 27.47	16.32 17.59
4			Recept. with Pins Recept. with Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-1P-ND 97-3102A-18-1S-ND	16.20 17.95	11.34 12.57
1	18-4	4/16	Plug with Pins Plug with Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-4P-ND 97-3106A-18-4S-ND	17.85 18.29	12.50 11.94
2			Plug with Pins Plug with Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-4P-ND 97-3108B-18-4S-ND	22.61 24.11	14.76 15.74
4			Recept. with Pins Recept. with Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-4P-ND 97-3102A-18-4S-ND	11.73 12.70	8.21 8.89
1	18-8	4/1#12, 4/7#16	Plug with Pins Plug with Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-8P-ND 97-3106A-18-8S-ND	21.07 22.75	13.75 14.85
2			Plug with Pins Plug with Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-8P-ND 97-3108B-18-8S-ND	25.49 27.11	16.32 17.36
4			Recept. with Pins Recept. with Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-8P-ND 97-3102A-18-8S-ND	16.20 17.70	11.34 12.39
1	18-10	4/12	Plug with Pins Plug with Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-10P-ND 97-3106A-18-10S-ND	20.28 22.75	13.24 14.85
2			Plug with Pins Plug with Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-10P-ND 97-3108B-18-10S-ND	24.75 27.11	15.84 17.36
4			Recept. with Pins Recept. with Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-10P-ND 97-3102A-18-10S-ND	15.00 17.70	10.50 12.39
1	18-11	5/12	Plug with Pins Plug with Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-11P-ND 97-3106A-18-11S-ND	20.28 21.07	13.24 13.75
2			Plug with Pins Plug with Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-11P-ND 97-3108B-18-11S-ND	24.75 25.49	15.84 16.32
4			Recept. with Pins Recept. with Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-11P-ND 97-3102A-18-11S-ND	15.00 16.20	10.50 11.34
1	18-12	6/16	Plug with Pins Plug with Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-12P-ND 97-3106A-18-12S-ND	19.12 20.28	12.48 13.24
2			Plug with Pins Plug with Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-12P-ND 97-3108B-18-12S-ND	23.45 24.75	15.01 15.84
4			Recept. with Pins Recept. with Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-12P-ND 97-3102A-18-12S-ND	13.65 15.00	9.56 10.50

Fig.	Shell Size Insert Arrange- ment No.	No. of Contacts/ Size	Description	Dimensions (Inches)		Digi-Key Part No.	Price Each	
				A	B		1	10
1	18-16	1/12	Plug with Pins Plug with Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-16P-ND 97-3106A-18-16S-ND	20.28 24.01	13.24 15.68
2			Plug with Pins Plug with Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-16P-ND 97-3108B-18-16S-ND	25.52 29.43	16.33 18.84
4			Recept. with Pins Recept. with Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-16P-ND 97-3102A-18-16S-ND	14.33 17.41	10.03 11.37
1	18-19	10/16	Plug with Pins Plug with Socket	1-11/32 1-11/32	1-31/32 1-31/32	97-3106A-18-19P-ND 97-3106A-18-19S-ND	27.50 23.49	17.60 15.33
2			Plug with Pins Plug with Socket	1-11/32 1-11/32	2-5/32 2-5/32	97-3108B-18-19P-ND 97-3108B-18-19S-ND	33.17 27.74	21.23 17.76
4			Recept. with Pins Recept. with Socket	1-3/8 1-3/8	1-63/64 1-63/64	97-3102A-18-19P-ND 97-3102A-18-19S-ND	23.30 17.41	15.21 11.37
1	20-4	4/12	Plug with Pins Plug with Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-4P-ND 97-3106A-20-4S-ND	23.33 32.20	14.94 20.61
4			Recept. with Pins Recept. with Socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-4P-ND 97-3102A-20-4S-ND	14.68 18.05	10.28 12.64
1	20-7	8/16	Plug with Pins Plug with Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-7P-ND 97-3106A-20-7S-ND	23.33 25.07	14.94 16.05
4			Recept. with Pins Recept. with Socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-7P-ND 97-3102A-20-7S-ND	14.68 16.90	10.28 11.83
1	20-15	7/12	Plug with Pins Plug with Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-15P-ND 97-3106A-20-15S-ND	25.56 33.86	16.36 21.68
4			Recept. with Pins Recept. with Socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-15P-ND 97-3102A-20-15S-ND	17.03 23.94	11.92 15.33
1	20-16	9/2#12, 9/7#16	Plug with Pins Plug with Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-16P-ND 97-3106A-20-16S-ND	25.58 27.47	16.38 17.59
4			Recept. with Pins Recept. with Socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-16P-ND 97-3102A-20-16S-ND	17.70 18.29	12.39 11.94
1	20-27	14/16	Plug with Pins Plug with Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-27P-ND 97-3106A-20-27S-ND	26.37 28.33	16.88 18.13
4			Recept. with Pins Recept. with Socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-27P-ND 97-3102A-20-27S-ND	18.05 19.67	12.64 12.84
1	20-29	17/16	Plug with Pins Plug with Socket	1-15/32 1-15/32	1-7/8 1-7/8	97-3106A-20-29P-ND 97-3106A-20-29S-ND	28.04 31.07	17.95 19.89
4			Recept. with Pins Recept. with Socket	1-1/2 1-1/2	1-57/64 1-57/64	97-3102A-20-29P-ND 97-3102A-20-29S-ND	19.24 22.02	12.56 14.37
1	22-14	19/16	Plug with Pins Plug with Socket	1-19/32 1-19/32	1-31/32 1-31/32	97-3106A-22-14P-ND 97-3106A-22-14S-ND	29.39 33.37	18.81 21.36
4			Recept. with Pins Recept. with Socket	1-5/8 1-5/8	1-63/64 1-63/64	97-3102A-22-14P-ND 97-3102A-22-14S-ND	21.07 24.30	13.75 15.56
1	22-19	14/16	Plug with Pins Plug with Socket	1-19/32 1-19/32	1-31/32 1-31/32	97-3106A-22-19P-ND 97-3106A-22-19S-ND	28.82 29.39	18.45 18.81
4			Recept. with Pins Recept. with Socket	1-5/8 1-5/8	1-63/64 1-63/64	97-3102A-22-19P-ND 97-3102A-22-19S-ND	20.66 21.07	13.49 13.75
1	24-7	16/2 #12, 16/14 #16	Plug with Pins Plug with Socket	1-23/32 1-23/32	2-1/4 2-1/4	97-3106A-24-7P-ND 97-3106A-24-7S-ND	34.79 33.48	22.27 23.44
4			Recept. with Pins Recept. with Socket	1-3/4 1-3/4	2-1/4 2-1/4	97-3102A-24-7P-ND 97-3102A-24-7S-ND	23.47 26.37	15.02 16.88
1	24-28	24/16	Plug with Pins Plug with Socket	1-23/32 1-23/32	2-1/4 2-1/4	97-3106A-24-28P-ND 97-3106A-24-28S-ND	32.34 36.62	22.64 25.64
4			Recept. with Pins Recept. with Socket	1-3/4 1-3/4	2-1/4 2-1/4	97-3102A-24-28P-ND 97-3102A-24-28S-ND	25.54 29.93	16.35 19.16
1	28-11	22/4#12, 22/18#16	Plug with Pins Plug with Socket	1-31/32 1-31/32	2-1/4 2-1/4	97-3106A-28-11P-ND 97-3106A-28-11S-ND	35.02 42.36	24.52 29.66
4			Recept. with Pins Recept. with Socket	2 2	2-1/4 2-1/4	97-3102A-28-11P-ND 97-3102A-28-11S-ND	28.01 32.00	17.93 22.40
1	28-16	20/16	Plug with Pins Plug with Socket	1-31/32 1-31/32	2-1/4 2-1/4	97-3106A-28-16P-ND 97-3106A-28-16S-ND	36.08 36.56	25.26 25.60
4			Recept. with Pins Recept. with Socket	2 2	2-1/4 2-1/4	97-3102A-28-16P-ND 97-3102A-28-16S-ND	29.39 29.63	18.81 18.97
1	28-21	37/16	Plug with Pins Plug with Socket	1-31/32 1-31/32	2-1/4 2-1/4	97-3106A-28-21P-ND 97-3106A-28-21S-ND	42.18 47.54	29.53 33.28
4			Recept. with Pins Recept. with Socket	2 2	2-1/4 2-1/4	97-3102A-28-21P-ND 97-3102A-28-21S-ND	31.80 37.48	22.26 26.24

(Continued)

Accessories For 97 Series Connectors

Fig.	Shell Size Insert Arrange-ment No.	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	10
6	10SL, 12S	Cable Clamp	.842	.795	5/16	97-3057-1004-ND	7.97	4.53
7		Bushing	.374	2.875	.210	97-79-513-3-ND	1.27	.76
7		Bushing	.500	2.750	.302	97-79-513-4-ND	1.46	.88
—		Cable Clamp with Bushing	—	—	—	97-3057-1004-1-ND*	8.73	5.24
6	12SL, 14S	Cable Clamp	.995	.850	7/16	97-3057-1007-ND	6.70	3.80
7		Bushing	.614	2.625	.427	97-79-513-6-ND	1.50	.90
—		Cable Clamp with Bushing	—	—	—	97-3057-1007-1-ND	8.85	5.31
6	16,16S	Cable Clamp	1.120	.920	9/16	97-3057-1008-ND	8.88	5.04
7		Bushing	.739	2.500	.552	97-79-513-8-ND	1.27	.76
—		Cable Clamp with Bushing	—	—	—	97-3057-1008-1-ND	9.30	5.58
6	18	Cable Clamp	1.216	.920	5/8	97-3057-1010-ND	7.50	4.26
7		Bushing	.889	2.375	.615	97-79-513-10-ND	1.27	.76
—		Cable Clamp with Bushing	—	—	—	97-3057-1010-1-ND	8.84	5.02
6	20,22	Cable Clamp	1.403	.927	3/4	97-3057-1012-ND	7.50	4.26
7		Bushing	1.084	2.250	.740	97-79-513-12-ND	1.46	.88
—		Cable Clamp with Bushing	—	—	—	97-3057-1012-1-ND	9.05	5.13
6	24,28	Cable Clamp	1.683	1.015	15/16	97-3057-1016-ND	8.21	4.66
7		Bushing	1.084	2.250	.740	97-79-513-12-ND	1.46	.88
7		Bushing	1.309	2.125	.927	97-79-513-16-ND	1.89	1.13
—		Cable Clamp with Bushing	—	—	—	97-3057-1016-1-ND**	10.38	6.23

* When Clamp and bushing are ordered together for shell sizes 10SL and 12S, bushing 97-79-513-4 will be furnished.

**Two telescoping bushings (97-79-513-12 and 97-79-513-16) are furnished with each cable clamp for shell sizes 24 and 28.

MS/Standard Cylindrical

with Solder Contacts (MIL-C-5015 Series 1 Type)

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	Digi-Key Part No.	Price Each 1	10
1	10SL-3	3/16	Plug with Socket	.946	2.129	MS3106E-10SL-3S-ND*	18.03	11.77
8		3/16	Plug with Socket	.946	2.129	MS3106F-10SL-3S-ND†	17.65	11.52
9		3/16	Plug with Socket	.946	1.057	MS3106R-10SL-3S-ND‡	17.15	12.01
4		3/16	Recept. with Pins	1.000	.297	MS3102E-10SL-3P-ND*	9.51	5.40
4		3/16	Recept. with Pins	1.000	.297	MS3102R-10SL-3P-ND‡	7.81	4.43
1	10SL-4	2/16	Plug with Socket	.946	.937	MS3106A-10SL-4S-ND	14.78	10.35
1	10SL-4	2/16	Plug with Socket	.946	2.129	MS3106E-10SL-4S-ND*	19.36	12.64
8		2/16	Plug with Socket	.946	2.129	MS3106F-10SL-4S-ND†	17.08	11.96
4		2/16	Recept. with Pins	1.000	.297	MS3102E-10SL-4P-ND*	9.38	5.32
4		2/16	Recept. with Pins	1.000	.297	MS3102R-10SL-4P-ND‡	7.50	4.26
8	14S-2	4/16	Plug with Pins	1.123	2.201	MS3106F-14S-2P-ND†	16.35	11.45
1		4/16	Plug with Socket	1.123	.937	MS3106A-14S-2S-ND	12.78	8.95
8		4/16	Plug with Socket	1.123	2.201	MS3106F-14S-2S-ND†	18.34	11.97
4		4/16	Recept. with Pins	1.188	.297	MS3102E-14S-2P-ND*	9.57	5.75
4		4/16	Recept. with Socket	1.188	.297	MS3102E-14S-2S-ND*	10.08	6.05
4		4/16	Recept. with Pins	1.188	.297	MS3102R-14S-2P-ND‡	9.28	5.27
4		4/16	Recept. with Socket	1.188	.297	MS3102R-14S-2S-ND‡	8.91	5.35
1	14S-5	5/16	Plug with Pins	1.123	.937	MS3106A-14S-5P-ND	14.08	9.86
1		5/16	Plug with Socket	1.123	.937	MS3106A-14S-5S-ND	16.70	11.69
4		5/16	Recept. with Pins	1.188	.297	MS3102E-14S-5P-ND*	8.91	5.35
4		5/16	Recept. with Pins	1.188	.297	MS3102R-14S-5P-ND‡	9.12	5.48
1	14S-6	6/16	Plug with Socket	1.123	.937	MS3106A-14S-6S-ND	12.75	8.93
8		6/16	Plug with Socket	1.123	2.201	MS3106F-14S-6S-ND†	17.79	11.61
4		6/16	Recept. with Pins	1.188	.297	MS3102E-14S-6P-ND*	8.78	4.98
4		6/16	Recept. with Socket	1.188	.297	MS3102E-14S-6S-ND*	12.00	7.20
4		6/16	Recept. with Pins	1.188	.297	MS3102R-14S-6P-ND‡	9.33	5.60
4		6/16	Recept. with Socket	1.188	.297	MS3102R-14S-6S-ND‡	10.95	6.57
8	14S-7	3/16	Plug with Socket	1.123	2.201	MS3106F-14S-7S-ND†	20.73	13.54
1	16S-1	7/16	Plug with Socket	1.250	.937	MS3106A-16S-1S-ND	16.93	11.85
8		7/16	Plug with Socket	1.250	2.201	MS3106F-16S-1S-ND†	26.42	16.91
4		7/16	Recept. with Pins	1.281	.297	MS3102E-16S-1P-ND*	11.28	6.77
4		7/16	Recept. with Pins	1.281	.297	MS3102R-16S-1P-ND‡	10.68	6.41
1	16-10	3/12	Plug with Socket	1.250	1.124	MS3106A-16-10S-ND	19.19	12.53
8		3/12	Plug with Socket	1.250	2.524	MS3106F-16-10S-ND†	26.15	16.74
4	16-11	2/12	Recept. with Pins	1.281	.484	MS3102R-16-11P-ND‡	9.81	5.89
4	18-1	10/16	Recept. with Pins	1.375	.453	MS3102E-18-1P-ND*	11.53	8.07
4		10/16	Recept. with Pins	1.375	.453	MS3102R-18-1P-ND‡	10.78	7.55
1		10/16	Plug with Socket	1.333	1.219	MS3106A-18-1S-ND	19.81	12.93
4	18-11	5/12	Recept. with Pins	1.375	.453	MS3102E-18-11P-ND*	11.60	8.12
4	20-27	14/16	Recept. with Pins	.453	1.500	MS3102R-20-27P-ND‡	11.48	8.04
4	22-14	19/16	Recept. with Pins	.453	1.625	MS3102E-22-14P-ND*	16.80	11.76
4	22-19	14/16	Recept. with Socket	.453	1.625	MS3102E-22-19S-ND*	17.40	12.18
4	22-22	4/8	Recept. with Pins	.453	1.625	MS3102E-22-22P-ND*	18.10	12.67
4	24-11	3/#8 6/#12	Recept. with Pins	.453	1.750	MS3102R-24-11P-ND‡	16.10	11.27
9			Plug with Socket	1.291	1.715	MS3106R-24-11S-ND‡	28.35	18.15

* Environmental resisting

† Environmental resisting with strain relief (MS part number only)

‡ Lightweight environmental resisting

Circular 97 Series Threaded Connectors with Solder Contacts (MIL-C-5015 Type)

NEW! 97 Series Plugs and Receptacles

Low cost, general duty, non-environmental MIL-C-5015 type connectors. Available in either A solid or B split shell styles. Used extensively in the machine tool industry, welding industry and numerous other commercial applications. • Single key/keyway polarization • Threaded coupling • Hard dielectric inserts made of diallyl-phthalate • Aluminum alloy components with a black zinc alloy finish • Contacts are silver plated solder cups • Cable clamps are zinc alloy with black zinc alloy finish

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	Digi-Key Part No.	Price Each 1	10
1	10SL-3	3/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-3S(946)-ND	13.63	9.54
2			Plug with Socket	7/8	1-1/2	97-3108B-10SL-3S(946)-ND	17.29	11.29
3			Recept. with Pins	1	1-9/32	97-3101A-10SL-3P(946)-ND	15.98	11.19
4			Recept. with Pins	3/4	1-9/32	97-3102A-10SL-3P(946)-ND	11.85	7.11
1	10SL-4	2/16	Plug with Socket	7/8	1-3/8	97-3106A-10SL-4S(946)-ND	12.90	9.03
2			Plug with Socket	7/8	1-1/2	97-3108B-10SL-4S(946)-ND	17.38	12.17
3			Recept. with Pins	1	1-9/32	97-3101A-10SL-4P(946)-ND	15.25	10.68
4			Recept. with Pins	1	1-9/32	97-3102A-10SL-4P(946)-ND	10.14	6.09
1	12S-3	2/16	Plug with Pins	1	1-7/16	97-3106A-12S-3P(946)-ND	13.43	9.40
			Plug with Socket	1	1-7/16	97-3106A-12S-3S(946)-ND	14.38	10.07
4			Recept. with Pins	1-3/32	1-15/32	97-3102A-12S-3P(946)-ND	9.57	5.75
			Recept. with Socket	1-3/32	1-15/32	97-3102A-12S-3S(946)-ND	10.32	6.20
1	14S-1	3/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-1P(946)-ND	15.53	10.87
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-1S(946)-ND	15.88	11.12
5			Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-1P(946)-ND	18.63	11.18
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-1S(946)-ND	15.88	11.12
3			Recept. with Pins	7/8	1-15/32	97-3101A-14S-1P(946)-ND	18.15	11.85
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-1S(946)-ND	18.80	13.16
1	14S-2	4/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-2P(946)-ND	15.40	10.78
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-2S(946)-ND	16.68	11.68
2			Plug with Pins	1-1/8	1-23/32	97-3108B-14S-2P(946)-ND	16.96	11.07
			Plug with Socket	1-1/8	1-23/32	97-3108B-14S-2S(946)-ND	19.28	13.50
5			Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-2P(946)-ND	17.25	12.08
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-2S(946)-ND	18.73	13.11
3			Recept. with Pins	7/8	1-15/32	97-3101A-14S-2P(946)-ND	17.95	12.57
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-2S(946)-ND	20.13	14.09
1	14S-5	5/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-5P(946)-ND	17.25	12.08
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-5S(946)-ND	17.88	12.52
5			Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-5P(946)-ND	17.25	12.08
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-5S(946)-ND	17.88	12.52
3			Recept. with Pins	7/8	1-15/32	97-3101A-14S-5P(946)-ND	19.45	12.70
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-5S(946)-ND	19.71	12.87
1	14S-6	6/16	Plug with Pins	1-1/8	1-15/32	97-3106A-14S-6P(946)-ND	17.88	12.52
			Plug with Socket	1-1/8	1-15/32	97-3106A-14S-6S(946)-ND	18.00	12.60
2			Plug with Pins	1-1/8	1-23/32	97-3108B-14S-6P(946)-ND	20.13	14.09
			Plug with Socket	1-1/8	1-23/32	97-3108B-14S-6S(946)-ND	19.64	12.82
5			Recept. with Pins	1-3/16	1-15/32	97-3100A-14S-6P(946)-ND	17.88	12.52
			Recept. with Socket	1-3/16	1-15/32	97-3100A-14S-6S(946)-ND	18.00	12.60
3			Recept. with Pins	7/8	1-15/32	97-3101A-14S-6P(946)-ND	21.99	14.36
			Recept. with Socket	7/8	1-15/32	97-3101A-14S-6S(946)-ND	20.19	13.18
1	16S-1	7/16	Plug with Pins	1-1/4	1-15/32	97-3106A-16S-1P(946)-ND	17.88	12.52
			Plug with Socket	1-1/4	1-15/32	97-3106A-16S-1S(946)-ND	19.90	13.93
4			Recept. with Pins	1-9/32	1-15/32	97-3102A-16S-1P(946)-ND	15.06	9.04
			Recept. with Socket	1-9/32	1-15/32	97-3102A-16S-1S(946)-ND	14.73	10.31
1	16S-8	5/16	Plug with Pins	1-1/4	1-15/32	97-3106A-16S-8P(946)-ND	17.35	12.15
			Plug with Socket	1-1/4	1-15/32	97-3106A-16S-8S(946)-ND	17.98	12.59
4			Recept. with Pins	1-9/32	1-15/32	97-3102A-16S-8P(946)-ND	12.43	8.70
			Recept. with Socket	1-9/32	1-15/32	97-3102A-16S-8S(946)-ND	12.88	9.02
1	18-1	10/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-1P(946)-ND	22.28	14.54
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-1S(946)-ND	24.65	16.09
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-1P(946)-ND	26.98	17.27
			Plug with Socket	1-11/32	2-5/32	97-3108B-18-1S(946)-ND	29.09	18.62
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-1P(946)-ND	17.13	11.99
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-1S(946)-ND	19.00	13.30
1	18-4	4/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-4P(946)-ND	17.93	11.71
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-4S(946)-ND	20.38	14.27
2			Plug with Socket	1-11/32	2-5/32	97-3108B-18-4S(946)-ND	24.14	15.46
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-4P(946)-ND	16.68	11.68
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-4S(946)-ND	13.43	9.40
1	18-8	4/1#12, 4/7#16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-8P(946)-ND	22.28	14.54
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-8P(946)-ND	28.48	18.59
4			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-8S(946)-ND	18.73	13.11

(Continued)

Circular 97 Series Threaded Connectors with Solder Contacts (MIL-C-5015 Type) *(Cont.)*

NEW! 97 Series Plugs and Receptacles *(Cont.)*

Fig.	Shell Size Insert Arrange-ment No.	No. of Contacts/ Size	Description	Dimensions (Inches) A	B	Digi-Key Part No.	Price Each 1	10
1	18-10	4/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-10P(946)-ND	22.58	15.81
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-10S(946)-ND	24.06	15.71
2			Plug with Pins	1-11/32	2-5/32	97-3108B-18-10P(946)-ND	27.62	18.03
			Plug with Socket	1-11/32	2-5/32	97-3108B-18-10S(946)-ND	28.67	18.35
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-10P(946)-ND	15.88	11.12
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-10S(946)-ND	18.73	13.11
1	18-11	5/12	Plug with Pins	1-11/32	1-31/32	97-3106A-18-11P(946)-ND	21.45	14.00
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-11S(946)-ND	22.28	14.54
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-11P(946)-ND	15.88	11.12
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-11S(946)-ND	17.13	11.99
1	18-12	6/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-12P(946)-ND	20.24	13.21
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-12S(946)-ND	21.45	14.00
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-12P(946)-ND	14.48	10.14
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-12S(946)-ND	15.88	11.12
1	18-19	10/16	Plug with Pins	1-11/32	1-31/32	97-3106A-18-19P(946)-ND	30.73	20.06
			Plug with Socket	1-11/32	1-31/32	97-3106A-18-19S(946)-ND	23.54	15.07
4			Recept. with Pins	1-3/8	1-63/64	97-3102A-18-19P(946)-ND	25.95	18.17
			Recept. with Socket	1-3/8	1-63/64	97-3102A-18-19S(946)-ND	18.41	12.02
1	20-4	4/12	Plug with Pins	1-15/32	1-7/8	97-3106A-20-4P(946)-ND	24.66	15.79
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-4S(946)-ND	35.96	23.47
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-4P(946)-ND	20.47	13.37
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-4S(946)-ND	19.10	13.37
1	20-7	8/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-7P(946)-ND	24.66	15.79
4			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-7S(946)-ND	17.88	12.52
1	20-15	7/12	Plug with Pins	1-15/32	1-7/8	97-3106A-20-15P(946)-ND	28.57	18.65
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-15S(946)-ND	35.82	22.93
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-15P(946)-ND	18.00	12.60
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-15S(946)-ND	28.13	19.69
1	20-16	9/2#12, 9/7#16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-16P(946)-ND	27.09	17.34
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-16S(946)-ND	29.09	18.62
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-16P(946)-ND	17.79	11.61
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-16S(946)-ND	19.25	13.48
1	20-27	14/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-27P(946)-ND	27.88	17.85
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-27S(946)-ND	29.95	19.17
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-27P(946)-ND	18.15	11.85
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-27S(946)-ND	21.90	15.33
1	20-29	17/16	Plug with Pins	1-15/32	1-7/8	97-3106A-20-29P(946)-ND	29.68	19.00
			Plug with Socket	1-15/32	1-7/8	97-3106A-20-29S(946)-ND	32.85	21.03
4			Recept. with Pins	1-1/2	1-57/64	97-3102A-20-29P(946)-ND	20.35	13.29
			Recept. with Socket	1-1/2	1-57/64	97-3102A-20-29S(946)-ND	23.30	15.21
1	22-14	19/16	Plug with Pins	1-19/32	1-31/32	97-3106A-22-14P(946)-ND	32.80	21.41
			Plug with Socket	1-19/32	1-31/32	97-3106A-22-14S(946)-ND	35.30	22.60
4			Recept. with Pins	1-5/8	1-63/64	97-3102A-22-14P(946)-ND	23.45	16.42
			Recept. with Socket	1-5/8	1-63/64	97-3102A-22-14S(946)-ND	27.12	17.71
1	22-19	14/16	Plug with Pins	1-19/32	1-31/32	97-3106A-22-19P(946)-ND	30.49	19.52
			Plug with Socket	1-19/32	1-31/32	97-3106A-22-19S(946)-ND	31.07	19.89
4	22-19	14/16	Recept. with Pins	1-5/8	1-63/64	97-3102A-22-19P(946)-ND	20.72	13.27
			Recept. with Socket	1-5/8	1-63/64	97-3102A-22-19S(946)-ND	22.28	14.54
1	24-7	16/2 #12, 16/14 #16	Plug with Pins	1-23/32	2-1/4	97-3106A-24-7P(946)-ND	32.72	22.91
			Plug with Socket	1-23/32	2-1/4	97-3106A-24-7S(946)-ND	39.85	25.51
4			Recept. with Pins	1-3/4	2-1/4	97-3102A-24-7P(946)-ND	24.82	15.89
			Recept. with Socket	1-3/4	2-1/4	97-3102A-24-7S(946)-ND	29.43	19.21
1	24-28	24/16	Plug with Pins	1-23/32	2-1/4	97-3106A-24-28P(946)-ND	38.48	24.63
			Plug with Socket	1-23/32	2-1/4	97-3106A-24-28S(946)-ND	38.72	27.11
4			Recept. with Pins	1-3/4	2-1/4	97-3102A-24-28P(946)-ND	28.55	18.64
			Recept. with Socket	1-3/4	2-1/4	97-3102A-24-28S(946)-ND	31.68	20.28
1	28-11	22/4#12, 22/18#16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-11P(946)-ND	37.06	25.95
			Plug with Socket	1-31/32	2-1/4	97-3106A-28-11S(946)-ND	44.80	31.36
4			Recept. with Pins	2	2-1/4	97-3102A-28-11P(946)-ND	29.66	18.98
			Recept. with Socket	2	2-1/4	97-3102A-28-11S(946)-ND	38.09	24.38
1	28-16	20/16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-16P(946)-ND	38.18	26.73
			Plug with Socket	1-31/32	2-1/4	97-3106A-28-16S(946)-ND	38.66	27.07
4			Recept. with Pins	2	2-1/4	97-3102A-28-16P(946)-ND	31.07	19.89
			Recept. with Socket	2	2-1/4	97-3102A-28-16S(946)-ND	31.32	20.05
1	28-21	37/16	Plug with Pins	1-31/32	2-1/4	97-3106A-28-21P(946)-ND	44.62	31.24
			Plug with Socket	1-31/32	2-1/4	97-3106A-28-21S(946)-ND	50.30	35.21
4			Recept. with Pins	2	2-1/4	97-3102A-28-21P(946)-ND	37.85	24.23
			Recept. with Socket	2	2-1/4	97-3102A-28-21S(946)-ND	44.60	28.55

NEW! Accessories For 97 Series Connectors

RoHS COMPLIANT

Fig.	Shell Size Insert Arrange-ment No.	Description	Dimensions (Inches) A	B	C	Digi-Key Part No.	Price Each 1	10
6	10SL,	Cable Clamp	.842	.795	5/16	97-3057-1004(621)-ND	8.78	4.98
—	12S	Cable Clamp with Bushing	—	—	—	97-3057-1004-1(621)-ND*	10.69	6.07
6	12SL,	Cable Clamp	.995	.850	7/16	97-3057-1007(621)-ND	7.37	4.18
—	14S	Cable Clamp with Bushing	—	—	—	97-3057-1007-1(621)-ND	10.79	6.12
6	16,	Cable Clamp	1.120	.920	9/16	97-3057-1008(621)-ND	9.78	5.55
—	16S	Cable Clamp with Bushing	—	—	—	97-3057-1008-1(621)-ND	10.23	6.14
6	18	Cable Clamp	1.216	.920	5/8	97-3057-1010(621)-ND	8.21	4.66
—		Cable Clamp with Bushing	—	—	—	97-3057-1010-1(621)-ND	9.72	5.51
6	20, 22	Cable Clamp	1.403	.927	3/4	97-3057-1012(621)-ND	8.21	4.66
—		Cable Clamp with Bushing	—	—	—	97-3057-1012-1(621)-ND	8.21	4.66
6	24, 28	Cable Clamp	1.683	1.015	15/16	97-3057-1016(621)-ND	9.01	5.12
—		Cable Clamp with Bushing	—	—	—	97-3057-1016-1(621)-ND**	11.40	6.84

* When Clamp and bushing are ordered together for shell sizes 10SL and 12S, bushing 97-79-513-4 will be furnished.

**Two telescoping bushings (97-79-513-12 and 97-79-513-16) are furnished with each cable clamp for shell sizes 24 and 28.

C 091 A Circular Connectors

Features/Specifications:
• Metal threaded coupling • Number of contacts are 3 to 8, 12 and 14 Internal metal strain relief with half shell construction and snap-in latching • Complete EMI shielding in fully mated and locked position • The connectors are registered under File # E 63 093 UL • Contact plating is silver • Male and female cable connectors: solder in 3 to 8, 12, 14 positions; crimp in 3 to 8 positions; cable entry straight or right-angled; metal coupling nickel plated or plastic coated • Male and female receptacles for panel mount: solder 3 to 8, 12, 14 positions • Solder termination

Dimensions in mm

Fig. 1 Cable Mount Male (Solder Type)

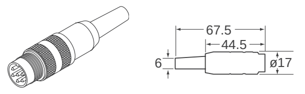

Fig. 2 Cable Mount Female (Solder Type)

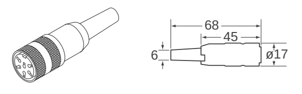

Fig. 3 Panel Mount Receptacle Female

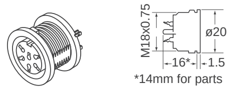

*14mm for parts
with 12 or 14 contacts

Fig. 4 Panel Mount Receptacle Male

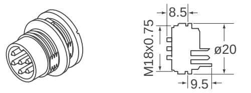

No. of Positions	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
Fig. 1 Cable Mount Male					
3 DIN	361-1044-ND	8.97	7.59	6.39	T3260 001
4 IEC	361-1045-ND	8.14	7.08	6.38	T3300 001
5	361-1046-ND	8.84	7.48	6.29	T3360 001
5 S DIN	361-1047-ND	10.21	8.88	8.00	T3360 010
6 DIN	361-1048-ND	8.12	7.06	6.36	T3400 001
7	361-1049-ND	8.83	7.68	6.92	T3475 001
8 DIN	361-1050-ND	8.69	7.56	6.81	T3504 001
12	361-1051-ND	15.86	14.93	13.53	T3635 001
14	361-1052-ND	16.76	15.78	14.30	T3650 001
Fig. 2 Cable Mount Female					
3 DIN	361-1053-ND	8.88	7.72	6.95	T3261 001
4 IEC	361-1054-ND	8.74	7.60	6.84	T3301 001
5	361-1055-ND	8.95	7.78	7.01	T3361 001
5 S DIN	361-1056-ND	10.63	9.24	8.32	T3361 010
6 DIN	361-1057-ND	9.15	7.96	7.17	T3401 001
7	361-1058-ND	9.87	8.58	7.73	T3476 001
8 DIN	361-1059-ND	10.20	9.44	8.47	T3505 001
12	361-1060-ND	14.06	13.24	12.00	T3636 001
14	361-1061-ND	15.16	14.28	12.94	T3651 001
Fig. 3 Receptacle Panel Mount Female					
3 DIN	361-1062-ND	5.77	4.78	3.98	T3263 000
4 IEC	361-1063-ND	5.86	4.85	4.04	T3303 000
5	361-1064-ND	5.66	4.68	3.90	T3363 000
5 S DIN	361-1065-ND	7.25	6.14	5.17	T3363 010
6 DIN	361-1066-ND	6.29	5.21	4.34	T3403 000
7	361-1067-ND	6.29	5.21	4.34	T3478 000
8 DIN	361-1068-ND	8.71	7.37	6.20	T3507 000
12	361-1069-ND	12.72	11.77	10.56	T3638 000
14	361-1070-ND	14.48	13.40	12.02	T3653 000
Fig. 4 Receptacle Panel Mount Male					
3 DIN	361-1071-ND	5.08	4.20	3.50	T3262 000
4 IEC	361-1072-ND	5.25	4.35	3.62	T3302 000
5	361-1073-ND	5.42	4.49	3.74	T3362 000
6 DIN	361-1075-ND	5.74	4.76	3.96	T3402 000
7	361-1076-ND	5.92	4.90	4.08	T3477 000
8 DIN	361-1077-ND	6.84	5.67	4.72	T3506-000

Amphenol® C 16-1 Circular Connectors

The circular connectors of the C 16-1 series are designed to meet the high requirements of industrial applications under harsh environmental conditions.

Specifications:

4 Position: • **Number of Contacts:** 4 (3 + PE) • **Termination:** Screw • **Wire Gauge:** AWG 14 • **Rated Insulation Voltage:** 400V • **Current Carrying Capacity:** 16A • **Protection Class:** IP 67

7 Position • **Number of Contacts:** 7 (6 + PE) • **Termination:** Solder • **Wire Gauge:** AWG 18 • **Rated Insulation Voltage:** 250V • **Current Carrying Capacity:** 10A • **Protection Class:** IP 67 • **Contact Plating:** silver

Features:

- Circular connectors with contact arrangements 3 + PE and 6 + PE for power and signal applications
- Applications in machine tools, measurement and control, process technology and medical equipment
- Housing are made from high grade plastic material
- Protected against unlocking by threaded coupling
- Protection degree IP 67 per IEC 60529 in mated condition
- Internal strain relief with screw clamp or clamping ring provides a safe cable restrain

Fig. 1 – Cable Mount Male

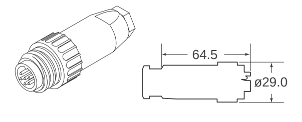

Fig. 2 – Cable Mount Male Right Angle

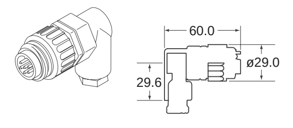

Fig. 3 – Panel Mount Receptacle Female

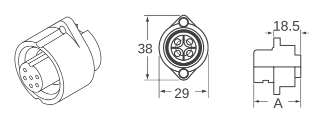

Fig. 4 – Cable Mount Female

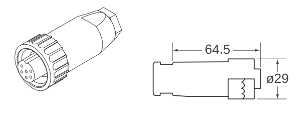

Fig. 5 – Cable Mount Female Right Angle

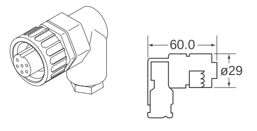

Fig. 6 – Panel Mount Receptacle Male

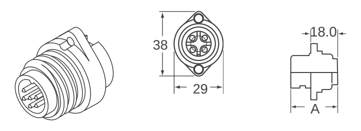

Fig. 7 – Protective Cap for Fig. 6

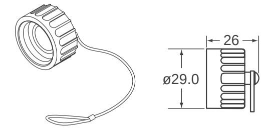

Fig. 8 – Protective Cap for Fig. 3

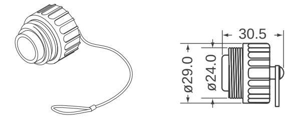

Fig.	No. of Pos.	Cable Outlet*	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
1	4	PG 9	—	361-1026-ND	7.72	6.54	5.50	T3108 001
	4	PG 11	—	361-1027-ND	7.88	6.67	5.61	T3108 101
	7	PG 9	—	361-1034-ND	8.56	7.44	6.70	T3104 001
	7	PG 11	—	361-1035-ND	8.69	7.56	6.81	T3104 101
2	4	PG 9	—	361-1028-ND	11.16	10.33	9.27	T3108 081
	7	PG 9	—	361-1036-ND	12.28	11.36	10.20	T3104 081
3	4	—	32	361-1032-ND	6.90	5.72	4.76	T3111 000
	7	—	30.7	361-1040-ND	8.94	7.57	6.37	T3107 000
4	4	PG 9	—	361-1029-ND	8.42	7.13	6.00	T3109 001
	4	PG 11	—	361-1030-ND	8.58	7.26	6.11	T3109 101

Fig.	No. of Pos.	Cable Outlet*	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
4	7	PG 9	—	361-1037-ND	9.89	8.60	7.74	T3105 001
	7	PG 11	—	361-1038-ND	10.03	8.72	7.85	T3105 101
5	4	PG 9	—	361-1031-ND	11.90	11.01	9.88	T3109 081
	7	PG 9	—	361-1039-ND	13.62	12.60	11.31	T3105 081
6	4	—	32	361-1033-ND	6.09	5.04	4.20	T3110 000
	7	—	30	361-1041-ND	7.51	6.36	5.35	T3106 000
7	—	—	—	361-1042-ND	7.02	5.94	5.00	T6482 001
8	—	—	—	361-1043-ND	6.60	5.59	4.70	T6483 001

* PG9 — 6-8mm with gland bushing and clamping ring; 8-10mm with gland bushing but without clamp ring
PG11 — 8-10mm with gland bushing and clamping ring; 10-12mm with gland bushing but without clamp ring

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molex Waldom ELECTRONICS MX150L Waterproof Automotive Type Connectors

Receptacle and Plug Specifications: ***Electrical:*** • Dielectric Withstanding Voltage: 1500VAC minimum • Insulation Resistance: 1000MΩ ***Physical:*** • Housing: SPS Glass-Filled Crystalline, UL 94V-0 • Polymer Operating Temperature: -55°C ~ 125°C **Features:** • Environmentally sealed to IP67 and USCAR-2, Rev. 3 standards • Integrated mat wire seal • Integrated interface seal • Integrated terminal position assurance (TPA) • Simple crimp and poke application • Field serviceable contact removal system • Tactile and audible mating feedback • Supports 18-22AWG and 14-16AWG wire range

Vertical and Right Angle Header Specifications: ***Electrical:*** Dielectric Withstanding Voltage: 2200VAC minimum • Insulation Resistance: 1000MΩ ***Physical:*** • Housing: Glass-Filled PBT • Contacts: Copper Alloy • Operating Temperature: -40°C ~ 125°C **Features:** • Environmentally sealed to IP67 standards • Molded silicon panel gasket included • Tactile and audible mating feedback • Supports 14-22 AWG wire range

Fig. 1

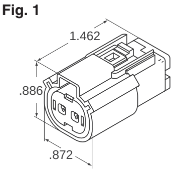

Contacts sold separately

Fig. 2

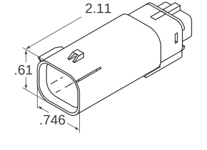

Contacts sold separately

Fig. 3

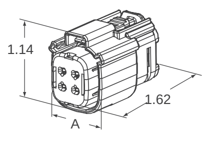

Contacts sold separately

Fig. 4

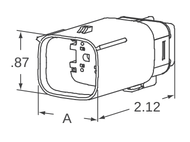

Contacts sold separately

Fig. 5 ***NEW!***

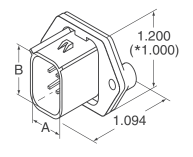

*WM17509-ND

Fig. 6 ***NEW!***

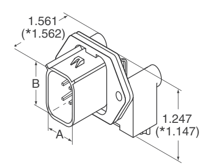

*WM17504-ND

Fig.	Circuits	AWG Range	Dim. A (Inches)	Digi-Key Part No.	Price Each 1	10	50	Molex Part No.
Single Row								
Receptacle								
1	2	22-18	—	WM17407-ND	2.62	2.22	1.87	19418-0016
		16-14		WM17408-ND	2.62	2.22	1.87	19418-0017
Plug								
2	2	22-18	—	WM17417-ND	2.62	2.22	1.87	19419-0008
		16-14		WM17418-ND	2.62	2.22	1.87	19419-0007
Double Row								
Receptacle								
3	4	22-18	.872	WM17409-ND	3.49	2.96	2.49	19418-0018
		16-14		WM17410-ND	3.49	2.96	2.49	19418-0019
	6	22-18	1.102	WM17411-ND	5.07	4.30	3.61	19418-0020
		16-14		WM17412-ND	5.07	4.30	3.61	19418-0021
	8	22-18	1.332	WM17413-ND	5.99	5.07	4.27	19418-0022
		16-14		WM17414-ND	5.99	5.07	4.27	19418-0023
	10	22-18	1.562	WM17415-ND	7.35	6.22	5.23	19418-0024
		16-14		WM17416-ND	7.35	6.22	5.23	19418-0025
Plug								
4	4	22-18	.746	WM17419-ND	3.49	2.96	2.49	19419-0005
		16-14		WM17420-ND	3.49	2.96	2.49	19419-0004
	6	22-18	.976	WM17421-ND	5.07	4.30	3.61	19419-0012
		16-14		WM17422-ND	5.07	4.30	3.61	19419-0011
	8	22-18	1.206	WM17423-ND	5.99	5.07	4.27	19419-0001
		16-14		WM17424-ND	5.99	5.07	4.27	19419-0002
	10	22-18	1.436	WM17425-ND	7.42	6.29	5.29	19419-0015
		16-14		WM17426-ND	7.35	6.22	5.23	19419-0014

NEW! Vertical and Right Angle Headers — *RoHS Compliant*

Fig.	Circuits	Dim. A (Inches)	Dim. B (Inches)	Digi-Key Part No.	Price Each 1	10	50	Molex Part No.
Vertical								
5	2	.634	.504	WM17509-ND	2.52	2.14	1.80	19428-0009
	4	.634	.754	WM17510-ND	3.31	2.80	2.36	19428-0011
	6	.864	.754	WM17511-ND	3.82	3.24	2.72	19428-0012
	8	1.092	.754	WM17512-ND	4.37	3.70	3.11	19428-0013
	10	1.324	.754	WM17513-ND	5.00	4.24	3.56	19428-0014
Right Angle								
6	2	.632	.504	WM17504-ND	3.27	2.77	2.33	19427-0040
	4	.634	.754	WM17505-ND	4.02	3.40	2.86	19427-0032
	6	.864	.754	WM17506-ND	4.65	3.94	3.31	19427-0018
	8	1.092	.754	WM17507-ND	5.24	4.44	3.73	19427-0017
	10	1.324	.754	WM17508-ND	6.06	5.13	4.32	19427-0031

Contacts (Pre-tin) / Tools

Description	Wire Size AWG	Digi Key Part No.	Pricing 1	10	100	500	Molex Part No.
Socket	22-18	WM17427-ND	—	1.86	14.91	62.14	19420-0010
Pin		WM17429-ND	—	1.86	14.91	62.14	19417-0048
Socket	16-14	WM17428-ND	—	1.86	14.91	62.14	19420-0009
Pin		WM17430-ND	—	1.90	15.20	63.34	19417-0047
Keying Plug for MX Series		WM17431-ND	—	3.37	—	—	19417-0119
Crimp Tool (Prototype)		WM17483-ND	41.34	—	—	—	64016-0035
Crimp Tool (Ratcheting)		WM17484-ND	343.44	—	—	—	63811-4400
Extraction Tool		WM17434-ND	15.26	—	—	—	63813-1500

Conxall was an innovator in the design of all plastic cylindrical connectors. The all plastic connector provides for substantial savings in cost without sacrificing performance and quality.

The all plastic connector is corrosion resistant, non-conductive and withstands substantial abuse, hostile environments, and heavy impacts that would otherwise cause metal connectors to corrode, deform or become electrically conductive and thus become unusable or unsafe.

Specifications:
• Voltage: 600V • Temperature Rating: -55°C ~ 125°C (-67°F ~ 257°F) • Contacts: Brass, gold over nickel • Watertight: NEMA 6P, 13: IEC IP67 • UL Recognized: File #E138878 - 250V • CSA Certified: File #LR89277 - 600V

Micro-Con-X®: • Rating: 3.0 thru 7.5A, 600V • Conductor Size: 20 thru 24 AWG

Mini-Con-X®: • Rating: 4.8 thru 13.0A, 600V • Conductor Size: 20 thru 24 AWG

Multi-Con-X®: • Rating: 1.95 thru 23.0A, 600V • Conductor Size: #12 Contacts, 12 thru 14 AWG; #20 Contacts, 20 thru 24 AWG
Note: Contact size is determined by the second digit of Conxall part number: 1=#12, 2=#20

Maxi-Con-X®: • Rating: 1.35 thru 13.0A, 600V • Conductor Size: #12 Contacts, 12 thru 14 AWG; #16 Contacts, 16 thru 18 AWG; #20 Contacts, 20 thru 24 AWG
Note: Contact size is determined by the second digit of Conxall part number: 1=#12, 2=#20, 3=#16

Fig. 1
(Mates with Fig. 4 and 6)

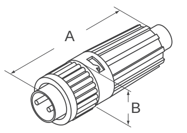

Fig. 2
(Mates with Fig. 3 and 5)

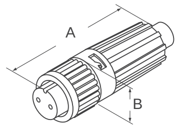

Fig. 3
(Mates with Fig. 2)

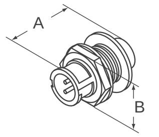

Fig. 4
(Mates with Fig. 1)

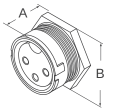

Shown with Female Insert

Fig. 5
(Mates with Fig. 2)

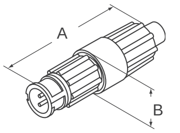

Shown with Male Insert

Fig. 6
(Mates with Fig. 1)

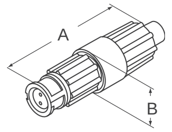

Fig. 7
(Mates with Fig. 8)

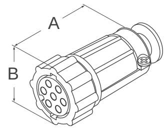

Fig. 8
(Mates with Fig. 7)

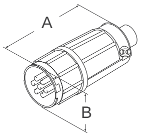

Shown with Male Insert

Fig. 9

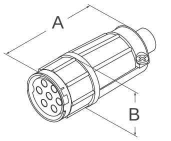

Micro-Con-X® Series

No. of Pos.	Dim. (Inch)		Max Cable Dia. (Inch)	Digi-Key Part No.	Price Each			Conxall Part No.
	A	B			1	10	25	
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.29	.530	0.14	SC1202-ND	3.50	2.63	2.40	16282-2PG-311
3				SC1204-ND	4.12	3.09	2.82	16282-3PG-311
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.29	.530	0.14	SC1203-ND	4.04	3.03	2.78	16282-2SG-311
3				SC1205-ND	4.94	3.71	3.39	16282-3SG-311
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.715	.715	—	SC1206-ND	2.56	1.92	1.76	17282-2PG-300
3				SC1208-ND	3.17	2.37	2.18	17282-3PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.715	.715	—	SC1207-ND	3.28	2.46	2.25	17282-2SG-300
3				SC1209-ND	4.08	3.07	2.81	17282-3SG-300
Fig. 5 — Cable to Cable – Cable Mount Socket with Male Insert								
2	1.32	.500	0.14	SC1210-ND	2.43	1.83	1.67	18282-2PG-311
3				SC1212-ND	3.72	2.79	2.56	18282-3PG-311
Fig. 6 — Cable to Cable – Cable Mount Socket with Female Insert								
2	1.32	.500	0.14	SC1211-ND	3.84	2.88	2.65	18282-2SG-311
3				SC1213-ND	4.74	3.56	3.26	18282-3SG-311

Mini-Con-X® Series

No. of Pos.	Dim. (Inch)		Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each			Conxall Part No.
	A	B			1	10	25	
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.315	.715	0.250	SC1262-ND	3.83	2.93	2.70	6282-2PG-3DC
3				SC1264-ND	4.44	3.38	3.12	6282-3PG-3DC
4				SC1266-ND	5.01	3.81	3.52	6282-4PG-3DC
5				SC1268-ND	5.57	4.23	3.90	6282-5PG-3DC
6				SC1270-ND	6.10	4.63	4.26	6282-6PG-3DC
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.315	.715	0.250	SC1263-ND	4.55	3.47	3.20	6282-2SG-3DC
3				SC1265-ND	5.45	4.14	3.81	6282-3SG-3DC
4				SC1267-ND	6.31	4.79	4.41	6282-4SG-3DC
5				SC1269-ND	7.15	5.42	4.99	6282-5SG-3DC
6				SC1271-ND	7.97	6.04	5.54	6282-6SG-3DC
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.675	.924	—	SC1272-ND	2.59	1.94	1.79	7282-2PG-300
3				SC1274-ND	3.19	2.39	2.19	7282-3PG-300
4				SC1276-ND	3.77	2.82	2.58	7282-4PG-300
5				SC1278-ND	4.32	3.23	2.96	7282-5PG-300
6				SC1280-ND	4.84	3.63	3.33	7282-6PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.675	.924	—	SC1273-ND	3.07	2.30	2.11	7282-2SG-300
3				SC1275-ND	3.87	2.91	2.67	7282-3SG-300
4				SC1277-ND	4.66	3.50	3.20	7282-4SG-300
5				SC1279-ND	5.42	4.06	3.73	7282-5SG-300
6				SC1281-ND	6.15	4.62	4.23	7282-6SG-300
Fig. 5 — Cable to Cable – Cable Mount Socket with Male Insert								
2	1.395	.625	0.250	SC1282-ND	4.18	3.19	2.94	8282-2PG-3DC
3				SC1284-ND	4.79	3.64	3.36	8282-3PG-3DC
4				SC1286-ND	5.37	4.07	3.76	8282-4PG-3DC
5				SC1288-ND	5.91	4.49	4.14	8282-5PG-3DC
6				SC1290-ND	6.45	4.89	4.50	8282-6PG-3DC
Fig. 6 — Cable to Cable – Cable Mount Socket with Female Insert								
2	1.395	.625	0.250	SC1283-ND	4.67	3.56	3.28	8282-2SG-3DC
3				SC1285-ND	5.57	4.23	3.90	8282-3SG-3DC
4				SC1287-ND	6.43	4.87	4.48	8282-4SG-3DC
5				SC1289-ND	7.27	5.50	5.06	8282-5SG-3DC
6				SC1291-ND	8.09	6.12	5.63	8282-6SG-3DC

Multi-Con-X® Series

No. of Pos.	Dim. (Inch)		Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each			Conxall Part No.
	A	B			1	10	25	
Fig. 1 — Cable Pin – Plug with Male Insert								
2	1.57	.875	0.250	SC1214-ND	5.18	3.94	3.62	3182-2PG-3DC
3				SC1216-ND	6.07	4.61	4.24	3182-3PG-3DC
4				SC1218-ND	5.80	4.40	4.05	3282-4PG-3DC
5				SC1220-ND	6.34	4.82	4.43	3282-5PG-3DC
6				SC1222-ND	6.88	5.22	4.80	3282-6PG-3DC
7				SC1224-ND	7.40	5.61	5.16	3282-7PG-3DC
8				SC1226-ND	7.91	5.99	5.51	3282-8PG-3DC
9				SC1228-ND	8.41	6.36	5.85	3282-9PG-3DC
Fig. 2 — Cable Socket – Plug with Female Insert								
2	1.57	.875	0.250	SC1215-ND	6.38	4.84	4.46	3182-2SG-3DC
3				SC1217-ND	7.67	5.81	5.33	3182-3SG-3DC
4				SC1219-ND	7.38	5.60	5.15	3282-4SG-3DC
5				SC1221-ND	8.22	6.23	5.72	3282-5SG-3DC
6				SC1223-ND	9.04	6.84	6.29	3282-6SG-3DC
7				SC1225-ND	9.85	7.44	6.85	3282-7SG-3DC
8				SC1227-ND	10.65	8.04	7.39	3282-8SG-3DC
9				SC1229-ND	11.43	8.63	7.93	3282-9SG-3DC
Fig. 3 — Panel Mount Receptacle with Male Insert								
2	.625	1.155	—	SC1230-ND	3.65	2.74	2.51	4182-2PG-300
3				SC1232-ND	4.55	3.41	3.13	4182-3PG-300
4				SC1234-ND	4.24	3.18	2.92	4282-4PG-300
5				SC1236-ND	4.79	3.59	3.30	4282-5PG-300
6				SC1238-ND	5.32	3.99	3.65	4282-6PG-300
7				SC1240-ND	5.84	4.38	4.01	4282-7PG-300
8				SC1242-ND	6.34	4.76	4.36	4282-8PG-300
9				SC1244-ND	6.84	5.12	4.69	4282-9PG-300
Fig. 4 — Panel Mount Receptacle with Female Insert								
2	.625	1.155	—	SC1231-ND	4.40	3.31	3.02	4182-2SG-300
3				SC1233-ND	5.68	4.26	3.91	4182-3SG-300
4				SC1235-ND	5.07	3.81	3.49	4282-4SG-300
5				SC1237-ND	5.99	4.48	4.12	4282-5SG-300
6				SC1239-ND	6.57	4.94	4.52	4282-6SG-300

(Continued)

conxall Field Installable Connectors *(Cont.)*

A Switchcraft Company

Multi-Con-X® Series *(Cont.)*

No. of Pos.	Dim. (Inch) A	Dim. (Inch) B	Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Conxall Part No.
Fig. 4 — Panel Mount Receptacle with Female Insert								
7	1.65	.766	—	SC1241-ND	7.30	5.47	5.02	4282-7SG-300
8				SC1243-ND	8.17	6.12	5.62	4282-8SG-300
9				SC1245-ND	8.87	6.66	6.10	4282-9SG-300
Fig. 5 — Cable to Cable – Cable Mount Socket with Male Insert								
5	1.65	.766	0.250	SC1252-ND	5.98	4.54	4.18	5282-5PG-3DC
6				SC1254-ND	6.49	4.92	4.53	5282-6PG-3DC
7				SC1256-ND	6.85	5.19	4.78	5282-8PG-3DC
8				SC1258-ND	7.34	5.55	5.11	5282-8PG-3DC
9				SC1260-ND	7.81	5.91	5.44	5282-9PG-3DC

Maxi-Con-X® Series

No. of Pos.	Dim. (Inch) A	Dim. (Inch) B	Max. Cable Dia. (Inch)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Conxall Part No.
Fig. 6 — Cable to Cable – Cable Mount Socket with Female Insert								
3	1.65	.766	0.250	SC1249-ND	6.84	5.18	4.77	5182-3SG-3DC
7				SC1257-ND	8.79	6.64	6.11	5282-7SG-3DC
Fig. 7 — Cable Socket – with Female Insert								
10	2.0	1.06	.30	SC1189-ND	18.30	13.72	12.59	13382-10SG-326
Fig. 8 — Cable to Cable – Cable Mount Socket with Male Insert								
7	2.0	1.06	.30	SC1196-ND	12.27	9.20	8.44	15182-7PG-326
18				SC1198-ND	16.31	12.23	11.22	15282-18PG-326
Fig. 9 — Cable to Cable – Cable Mount Socket with Female Insert								
18	2.0	1.06	.30	SC1199-ND	17.11	12.83	11.76	15282-18SG-326

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conxall A Switchcraft Company SENSOR-LINK

Molded Single Ended Cable Assemblies and Panel Mount Receptacles with Wire Leads

Fig. 1

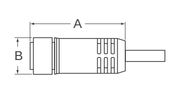

Fig. 2

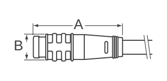

Fig. 3

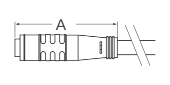

Fig. 4

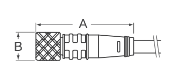

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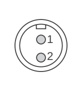

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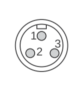

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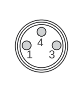

Features:

Designed to meet or exceed the requirements of UL, CSA, NEMA, ANSI, IEC and SAE, the Sensor-Link series is intermateable and intermountable with other manufacturers equivalents.

Mini-Mizer® "A" Size Specifications:

• Voltage: 600V • Contacts: Copper alloy, gold-plated • Cable: 16 AWG, PVC Insulated, 600V, 105°C • Overmold: Polyurethane • Operating Ambient Temperature: -20°C ~ 80°C

Nano-Mizer® Specifications:

• Voltage: 300V, 4 Amps • Contacts: Copper alloy, gold-plated • Cable: .25mm (or approximately 22 AWG) PVC insulated • Operating Ambient Temperature: -20°C ~ 105°C

Fig.	No. of Pos.	Descrip-tion	Length (Feet)	Dim. - (Inch) A	Dim. - (Inch) B	Digi-Key Part No.	Price Each 1	Price Each 25	Conxall Part No.
Mini-Mizer® "A" Size									
1A	2	Female	12	2.25	1.0	SC1292-ND	19.14	15.16	162S144
1B	3	Female	6	2.25	1.0	SC1295-ND	18.80	14.88	163S72
			12	2.25	1.0	SC1294-ND	22.94	18.16	163S144
Nano-Mizer® Series									
2C	3	Male	6	1.16	.328	SC1300-ND	7.08	5.53	603PS2
3C	3	Female	6	1.305	—	SC1302-ND	7.70	6.01	603SS2
4C	3	Female	6	1.38	.390	SC1303-ND	11.14	8.71	603ST2

Switchcraft® EN3 Weathertight Connectors

Fig. 1

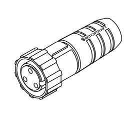

Fig. 2

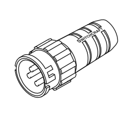

Fig. 3

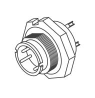

Fig. 4

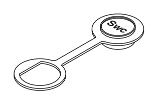

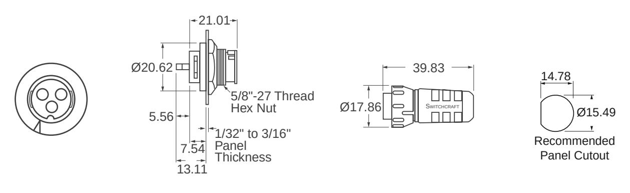

Features and Benefits: • Housing rated UL 94V-O against flammability • Contact terminal: Solder Cup Contacts • Panel Connector Shell features a positioning keyway to prevent misalignments • No Grommets. Cable clamp assembly features living hinges, which snap easily onto and holds the cable • Choose cord plug or panel mount • 2-8 pins • Exceeds Coast Guard specifications for water tightness (CFR 46 Part 110.20) • Optional cap covers the panel housing assembly when not in use

Applications: • Process control • Marine electronics • Medical instrumentation • Geothermal instrumentation • Communication • Transportation • General industrial electronics

Specifications: • Mechanical: Shock: Mil-Std. 202 method 213B, condition K • Vibration: Mil-Std 202 Method 201 • Life 600 insertion/withdrawal cycles (minimum) **Electrical:** Voltage Rating (sea level): • Tested at 600 VRMS • Insulation Resistance: 100MΩ (minimum) at 77°F (25°C) • Contact Resistance: 3.0mΩ (maximum) • Current Rating: 7.5 Amps (#20 contact) **Environmental:** • Temperature Limits: -40°C ~ 65°C (non-operating) • Moisture Resistance: Mil-Std 202 Method 106F • Insulation Resistance: Mil-Std 202 Method 302, condition B • Thermal Shock: Mil-Std 202 Method 107G • Salt Spray: Mil-Std 202 Method 101D, condition B • Water Tightness Test: U.S. Coast Guard CFR 46 Part 110.20

Fig.	No. of Positions	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Switchcraft Part No.
Plugs							
1	3	Female	SC1156-ND	5.60	4.20	3.85	EN3C3F
		Male	SC1157-ND	4.04	3.03	2.78	EN3C3M
	4	Female	SC1158-ND	6.68	5.01	4.59	EN3C4F
		Male	SC1159-ND	4.64	3.48	3.19	EN3C4M
	5	Female	SC1160-ND	7.72	5.79	5.31	EN3C5F
		Male	SC1161-ND	5.32	3.99	3.66	EN3C5M
	6	Female	SC1162-ND	8.84	6.63	6.08	EN3C6F
		Male	SC1163-ND	5.88	4.41	4.04	EN3C6M
	8	Female	SC1164-ND	11.12	8.34	7.65	EN3C8F
In-Line Receptacles							
2	3	Female	SC1175-ND	5.44	4.08	3.74	EN3L3F
		Male	SC1176-ND	3.96	2.97	2.72	EN3L3M
	4	Female	SC1177-ND	6.52	4.89	4.48	EN3L4F
		Male	SC1178-ND	4.48	3.36	3.08	EN3L4M
	5	Female	SC1179-ND	7.52	5.64	5.17	EN3L5F
		Male	SC1180-ND	5.16	3.87	3.55	EN3L5M
	6	Female	SC1181-ND	8.56	6.42	5.89	EN3L6F
		Male	SC1182-ND	5.72	4.29	3.93	EN3L6M
	8	Male	SC1183-ND	7.04	5.28	4.84	EN3L8M
Panel-Mount Receptacles							
3	3	Female	SC1165-ND	4.96	3.72	3.41	EN3P3F
		Male	SC1166-ND	3.60	2.70	2.48	EN3P3M
	4	Female	SC1167-ND	5.96	4.47	4.10	EN3P4F
		Male	SC1168-ND	4.16	3.12	2.86	EN3P4M
	5	Female	SC1169-ND	7.04	5.28	4.84	EN3P5F
		Male	SC1170-ND	4.80	3.60	3.30	EN3P5M
	6	Female	SC1171-ND	8.12	6.09	5.58	EN3P6F
		Male	SC1172-ND	5.44	4.08	3.74	EN3P6M
	8	Male	SC1173-ND	6.68	5.01	4.59	EN3P8M
4	—	Dust Cap	SC1174-ND	1.12	.84	.77	EN3CAP

Circular Connectors

HR10 Series

7mm Push-Pull Connectors

GOLD PLATED CONTACTS

Features: The most compact HR10 series with well balanced, simplified layout in limited space; Easy "Push-Pull" Operation; Polarization – Five-key system permits only one way of coupling.

Electrical Specifications: • Current Rating: 2A • Insulation Resistance: 1000MΩ or more at DC100V • Contact Resistance: 10mΩ or less at DC1A.

Dust Cap

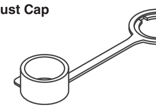

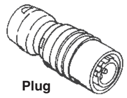

Plug

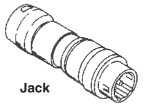

Jack

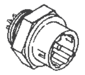

Receptacle

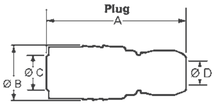

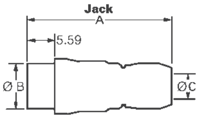

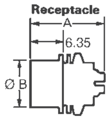

Plug Chart

No. of Pins	Digi-Key Part No.	Dimensions (mm)			
		A	B	C	D
4	HR100, HR103	28.50	11.00	7.00	5.20
6	HR101, HR104	28.50	11.00	7.00	5.20
12	HR102, HR105	32.50	14.00	9.50	7.20

Jack Chart

No. of Pins	Digi-Key Part No.	Dimensions (mm)		
		A	B	C
4	HR300, HR303	28.50	8.85	5.20
6	HR301, HR304	28.50	8.85	5.20
12	HR302, HR305	32.50	11.90	7.20

Receptacle Chart

No. of Pins	Digi-Key Part No.	Dimensions (mm)	
		A	B
4	HR342	15.50	8.85
	HR200, HR203	14.00	8.85
6	HR343, HR344	15.50	8.85
	HR201, HR204	14.00	8.85
12	HR202, HR205	16.00	11.90
	HR347, HR348	15.50	11.90

Con-tacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
		HR10 Series				
4	Plug with Pin Insert	HR100-ND	12.18	11.27	9.44	HR10-7P-4P
6	Plug with Pin Insert	HR101-ND	13.96	12.92	10.82	HR10-7P-6P
12	Plug with Pin Insert	HR102-ND	14.48	13.64	11.93	HR10-10P-12P
4	Plug with Socket Insert	HR103-ND	13.90	12.86	10.78	HR10-7P-4S
6	Plug with Socket Insert	HR104-ND	13.86	13.04	11.41	HR10-7P-6S
12	Plug with Socket Insert	HR105-ND	15.75	15.23	13.65	HR10-10P-12S
4	Receptacle with Pin Insert	HR200-ND	8.58	7.26	5.45	HR10-7R-4P
6	Receptacle with Pin Insert	HR201-ND	8.46	7.36	5.89	HR10-7R-6P
12	Receptacle with Pin Insert	HR202-ND	10.12	9.37	7.85	HR10-10R-12P
4	Receptacle with Socket Insert	HR203-ND	8.86	7.70	6.16	HR10-7R-4S
6	Receptacle with Socket Insert	HR204-ND	11.13	9.68	7.75	HR10-7R-6S
12	Receptacle with Socket Insert	HR205-ND	13.56	12.55	10.51	HR10-10R-12S
4	Jack with Pin Insert	HR300-ND	10.66	9.87	8.27	HR10-7J-4P
6	Jack with Pin Insert	HR301-ND	11.40	10.55	8.84	HR10-7J-6P
12	Jack with Pin Insert	HR302-ND	14.38	13.31	11.15	HR10-10J-12P
4	Jack with Socket Insert	HR303-ND	12.90	11.94	10.00	HR10-7J-4S
6	Jack with Socket Insert	HR304-ND	14.70	13.60	11.40	HR10-7J-6S
12	Jack with Socket Insert	HR305-ND	16.05	15.52	13.91	HR10-10J-12S
6	Receptacle with Pin Insert, PCB	HR343-ND	11.36	9.88	7.91	HR10-7R-6PA
12	Receptacle with Pin Insert, PCB	HR347-ND	13.60	12.58	10.54	HR10-10R-12PA
4	Receptacle with Socket Insert, PCB	HR342-ND	10.17	8.84	7.08	HR10-7R-4SA
6	Receptacle with Socket Insert, PCB	HR344-ND	10.66	9.87	8.27	HR10-7R-6SA
12	Receptacle with Socket Insert, PCB	HR348-ND	14.94	13.82	11.58	HR10-10R-12SA
—	Dust Cap for 4-6 Position Recept.	HR345-ND	2.76	2.30	1.70	HR10-7R-C
—	Dust Cap for 10-12 Position Recept.	HR349-ND	3.05	2.52	1.89	HR10-10R-C

HR10A Series

Snap-In and Threaded Coupling Connectors

SILVER PLATED CONTACTS

Features:

- Compatible with current HR10 series: Cable crimping tool maintains consistent cable clamp force.
- To prevent from slipping, HR10A series are accompanied with ruled-off-squares roulette.

Electrical Specifications:

- Current Rating: 2A
- Insulation Resistance: minimum 1,000MΩ
- Contact Resistance: maximum 10mΩ.

Receptacle Chart

No. of Pins	Digi-Key Part No.	Dimension (mm)	
		A	B
4	HR350, HR351, HR660	15.60	8.85
	HR210, HR213, HR644, HR647	14.00	8.85
	HR232	12.20	8.85
	HR237	12.00	8.85
5	HR352	15.60	8.85
	HR218, HR219	14.00	8.85
6	HR353, HR354, HR658, HR661	15.60	8.85
	HR357, HR671	15.50	11.00
	HR346	14.00	11.00
	HR211, HR214, HR645, HR649	14.00	8.85
	HR233	12.20	8.85
	HR238	12.00	8.85
10	HR216, HR217	16.00	14.00
	HR650, HR682	16.00	11.90
	HR358, HR359, HR662	15.60	11.90
	HR234	12.20	11.90
	HR239	12.00	11.90
12	HR664	22.00	11.90
	HR368, HR373, HR675, HR676	16.00	14.00
	HR212, HR215, HR683, HR684	16.00	11.90
	HR677	15.60	14.00
	HR360, HR361, HR659, HR663	15.60	11.90
	HR367, HR369, HR374	15.50	14.00
	HR235	12.20	11.90
	HR370	12.00	14.00
	HR240	11.90	12.00
20	HR377, HR646	20.20	15.40
	HR379, HR651	19.20	15.40
	HR383, HR384, HR670, HR672	17.80	18.00
	HR378, HR380, HR665	17.80	15.40
	HR385	15.00	18.00
	HR236, HR241	15.00	15.40

Receptacle

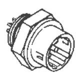

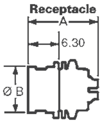

Threaded Receptacle

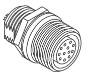

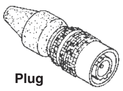

Plug

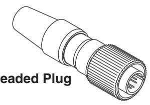

Threaded Plug

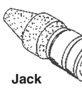

Jack

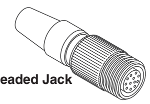

Threaded Jack

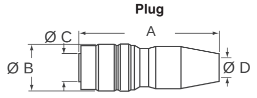

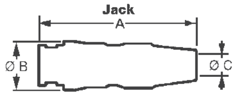

Plug Chart

No. of Pins	Digi-Key Part No.	Dimension (mm)			
		A	B	C	D
4	HR679	37.00	11.50	7.00	5.00
	HR110, HR113, HR160	35.00	11.50	7.00	5.00
	HR165, HR634, HR640	35.00	11.50	7.00	5.00
5	HR118, HR119	35.00	11.50	7.00	5.00
6	HR355, HR356	35.00	12.00	7.00	5.00
	HR111, HR114, HR161	35.00	11.50	7.00	5.00
	HR166, HR635, HR641	35.00	11.50	7.00	5.00
10	HR116, HR117, HR162 HR167, HR636, HR642	43.00	14.70	9.50	7.00
12	HR371, HR372	45.80	15.00	9.50	6.50
	HR673, HR674	45.80	15.00	9.50	6.50
	HR364, HR365	43.00	17.00	9.50	7.00
	HR366, HR668	43.00	17.00	9.50	7.00
	HR112, HR115, HR163	43.00	14.70	9.50	7.00
	HR168, HR680, HR681	43.00	14.70	9.50	7.00
20	HR638, HR639	64.80	19.00	13.00	7.00
	HR164, HR169, HR375	58.80	19.00	13.00	7.00
	HR376, HR637, HR643	58.80	19.00	13.00	7.00
	HR382, HR666	56.50	20.00	13.00	7.00
	HR667, HR669	56.50	20.00	13.00	7.00

Jack Chart

No. of Pins	Digi-Key Part No.	Dimension (mm)		
		A	B	C
4	HR310, HR313 HR332, HR337 HR652	35.30	8.85	5.00
6	HR311, HR314 HR333, HR338 HR653, HR655	35.30	8.85	5.00
10	HR316, HR317 HR334, HR339 HR656	43.00	11.90	7.00
12	HR678	46.50	14.00	6.50
	HR312, HR315	43.00	11.90	7.00
	HR335, HR340	43.00	11.90	7.00
	HR654, HR685	43.00	11.90	7.00
	HR362, HR363	41.30	14.70	7.00
20	HR657	64.50	15.40	8.30
	HR336, HR341	58.50	15.40	7.00

FEMALE SOCKET

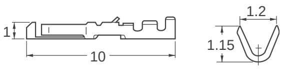

MALE PIN

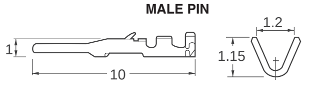

Con-tacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
		Solder Cup Type				
4	Plug with Pin Insert	HR110-ND	11.28	10.44	8.75	HR10A-7P-4P
4	Plug with Pin Insert, 5mm Diameter Cable Hole through Boot	HR634-ND*	11.16	10.33	8.65	HR10A-7P-4P(01)
4	Plug with Pin Insert, 3mm Diameter Cable Hole through Boot	HR679-ND*	15.23	14.72	13.20	HR10A-7PH-4P(01)
5	Plug with Pin Insert	HR118-ND	11.02	10.20	8.55	HR10A-7P-5P
6	Plug with Pin Insert	HR111-ND	11.52	10.66	8.93	HR10A-7P-6P
6	Plug with Pin Insert	HR635-ND*	11.88	10.99	9.21	HR10A-7P-6P(01)
10	Plug with Pin Insert	HR116-ND	15.16	14.03	11.75	HR10A-10P-10P
10	Plug with Pin Insert	HR636-ND*	14.76	13.66	11.44	HR10A-10P-10P(01)
12	Plug with Pin Insert	HR112-ND	12.92	12.16	10.64	HR10A-10P-12P
12	Plug with Pin Insert	HR680-ND*	14.48	13.64	11.93	HR10A-10P-12P(01)
20	Plug with Pin Insert	HR375-ND	30.24	29.24	26.21	HR10A-13P-20P
20	Plug with Pin Insert, 7mm Diameter Cable Hole through Boot	HR637-ND*	32.30	31.22	27.99	HR10A-13P-20P(01)
20	Plug with Pin Insert, 8.3mm Diameter Cable Hole through Boot	HR638-ND*	32.30	31.22	27.99	HR10A-13PA-20P(01)
20	Plug with Pin Insert, 6.2mm Diameter Cable Hole through Boot	HR639-ND*	45.91	43.62	40.99	HR10A-13PD-20P(01)
4	Plug with Socket Insert	HR113-ND	10.44	9.66	8.10	HR10A-7P-4S
4	Plug with Socket Insert	HR640-ND*	10.88	10.07	8.44	HR10A-7P-4S(01)
5	Plug with Socket Insert	HR119-ND	10.60	9.81	8.22	HR10A-7P-5S
6	Plug with Socket Insert	HR114-ND	11.28	10.44	8.75	HR10A-7P-6S
6	Plug with Socket Insert	HR641-ND*	11.46	10.61	8.89	HR10A-7P-6S(01)
10	Plug with Socket Insert	HR117-ND	14.58	13.49	11.30	HR10A-10P-10S
10	Plug with Socket Insert	HR642-ND*	13.68	12.66	10.61	HR10A-10P-10S(01)
12	Plug with Socket Insert	HR115-ND	14.94	13.82	11.58	HR10A-10P-12S
12	Plug with Socket Insert	HR681-ND*	14.44	13.36	11.20	HR10A-10P-12S(01)
20	Plug with Socket Insert	HR376-ND	35.00	33.25	31.25	HR10A-13P-20S
20	Plug with Socket Insert	HR643-ND*	38.67	36.74	34.53	HR10A-13P-20S(01)
4	Receptacle with Pin Insert	HR210-ND	7.05	5.97	4.48	HR10A-7R-4P
4	Receptacle with Pin Insert	HR644-ND*	7.25	6.14	4.61	HR10A-7R-4P(01)
5	Receptacle with Pin Insert	HR218-ND	7.07	5.99	4.49	HR10A-7R-5P
6	Receptacle with Pin Insert	HR211-ND	7.80	6.60	4.95	HR10A-7R-6P
6	Receptacle with Pin Insert	HR645-ND*	8.19	6.93	5.20	HR10A-7R-6P(01)
10	Receptacle with Pin Insert	HR217-ND	9.98	8.68	6.95	HR10A-10R-10P
10	Receptacle with Pin Insert	HR682-ND*	11.16	9.70	7.76	HR10A-10R-10P(01)
12	Receptacle with Pin Insert	HR212-ND	10.72	9.32	7.46	HR10A-10R-12P
12	Receptacle with Pin Insert	HR683-ND*	10.02	9.27	7.77	HR10A-10R-12P(01)
20	Receptacle with Pin Insert	HR377-ND	17.25	16.68	14.95	HR10A-13R-20P
20	Receptacle with Pin Insert	HR646-ND*	19.20	18.56	16.64	HR10A-13R-20P(01)
4	Receptacle with Socket Insert	HR213-ND	7.40	6.12	4.59	HR10A-7R-4S
4	Receptacle with Socket Insert	HR647-ND*	6.89	5.83	4.38	HR10A-7R-4S(01)
5	Receptacle with Socket Insert	HR219-ND	6.86	5.81	4.36	HR10A-7R-5S

* Gold Plated

(Continued)

Con-tacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
6	Receptacle with Socket Insert	HR214-ND	7.05	5.97	4.48	HR10A-7R-6S
6	Receptacle with Socket Insert	HR649-ND*	7.62	6.45	4.84	HR10A-7R-6S(01)
10	Receptacle with Socket Insert	HR216-ND	9.52	8.28	6.63	HR10A-10R-10S
10	Receptacle with Socket Insert	HR650-ND*	10.07	8.76	7.01	HR10A-10R-10S(01)
12	Receptacle with Socket Insert	HR215-ND	9.32	8.10	6.48	HR10A-10R-12S
12	Receptacle with Socket Insert	HR684-ND*	10.70	9.30	7.44	HR10A-10R-12S(01)
20	Receptacle with Socket Insert	HR379-ND	35.76	34.57	31.00	HR10A-13R-20S
20	Receptacle with Socket Insert	HR651-ND*	36.15	34.95	31.33	HR10A-13R-20S(01)
4	Jack with Pin Insert	HR310-ND	10.16	9.40	7.88	HR10A-7J-4P
4	Jack with Pin Insert	HR652-ND*	10.60	9.81	8.22	HR10A-7J-4P(01)
6	Jack with Pin Insert	HR311-ND	10.12	8.80	7.04	HR10A-7J-6P
6	Jack with Pin Insert	HR653-ND*	11.30	10.46	8.76	HR10A-7J-6P(01)
10	Jack with Pin Insert	HR317-ND	12.99	12.23	10.70	HR10A-10J-10P
12	Jack with Pin Insert	HR312-ND	13.04	12.07	10.11	HR10A-10J-12P
12	Jack with Pin Insert	HR654-ND*	14.84	13.97	12.23	HR10A-10J-12P(01)
4	Jack with Socket Insert	HR313-ND	9.32	8.10	6.48	HR10A-7J-4S
6	Jack with Socket Insert	HR314-ND	9.94	8.64	6.92	HR10A-7J-6S
6	Jack with Socket Insert	HR655-ND*	10.88	10.07	8.44	HR10A-7J-6S(01)
10	Jack with Socket Insert	HR316-ND	11.52	10.66	8.93	HR10A-10J-10S
10	Jack with Socket Insert	HR656-ND*	14.34	13.27	11.12	HR10A-10J-10S(01)
12	Jack with Socket Insert	HR315-ND	12.02	11.12	9.32	HR10A-10J-12S
12	Jack with Socket Insert	HR685-ND*	14.23	13.40	11.72	HR10A-10J-12S(01)
20	Jack with Socket Insert, 8.3mm Diameter Cable Hole through Boot	HR657-ND*	51.84	49.25	46.29	HR10A-13JA-20S(01)
Crimp Type (contacts sold separately)						
4	Plug for Pin Insert, Crimp Type	HR160-ND	10.44	9.66	8.10	HR10A-7P-4PC
6	Plug for Pin Insert, Crimp Type	HR161-ND	11.36	9.88	7.91	HR10A-7P-6PC
10	Plug for Pin Insert, Crimp Type	HR162-ND	13.46	12.46	10.44	HR10A-10P-10PC
12	Plug for Pin Insert, Crimp Type	HR163-ND	13.02	12.05	10.10	HR10A-10P-12PC
20	Plug for Pin Insert, Crimp Type	HR164-ND	25.50	24.65	22.10	HR10A-13P-20PC
4	Plug for Socket Insert, Crimp Type	HR165-ND	10.60	9.81	8.22	HR10A-7P-4SC
6	Plug for Socket Insert, Crimp Type	HR166-ND	10.60	9.81	8.22	HR10A-7P-6SC
10	Plug for Socket Insert, Crimp Type	HR167-ND	13.74	12.71	10.65	HR10A-10P-10SC
12	Plug for Socket Insert, Crimp Type	HR168-ND	13.74	12.71	10.65	HR10A-10P-12SC
20	Plug for Socket Insert, Crimp Type	HR169-ND	25.50	24.65	22.10	HR10A-13P-20SC
4	Recept. for Pin Insert, Crimp Type	HR232-ND	7.05	5.84	4.38	HR10A-7R-4PC
6	Recept. for Pin Insert, Crimp Type	HR233-ND	7.05	5.84	4.38	HR10A-7R-6PC
10	Recept. for Pin Insert, Crimp Type	HR234-ND	8.74	7.40	5.55	HR10A-10R-10PC
12	Recept. for Pin Insert, Crimp Type	HR235-ND	8.74	7.40	5.55	HR10A-10R-12PC
20	Recept. for Pin Insert, Crimp Type	HR236-ND	15.22	14.32	12.53	HR10A-13R-20PC
4	Recept. for Socket Insert, Crimp Type	HR237-ND	6.64	5.50	4.13	HR10A-7R-4SC
6	Recept. for Socket Insert, Crimp Type	HR238-ND	6.64	5.50	4.13	HR10A-7R-6SC
10	Recept. for Socket Insert, Crimp Type	HR239-ND	8.07	7.02	5.62	HR10A-10R-10SC
12	Recept. for Socket Insert, Crimp Type	HR240-ND	8.55	7.24	5.43	HR10A-10R-12SC
20	Recept. for Socket Insert, Crimp Type	HR241-ND	15.22	14.32	12.53	HR10A-13R-20SC
10	Jack for Pin Insert, Crimp Type	HR334-ND	13.88	12.84	10.76	HR10A-10J-10PC
12	Jack for Pin Insert, Crimp Type	HR335-ND	13.88	12.84	10.76	HR10A-10J-12PC
20	Jack for Pin Insert, Crimp Type	HR336-ND	25.80	24.94	22.36	HR10A-13J-20PC
4	Jack for Socket Insert, Crimp Type	HR337-ND	11.04	9.60	7.68	HR10A-7J-4SC
6	Jack for Socket Insert, Crimp Type	HR338-ND	11.04	9.60	7.68	HR10A-7J-6SC
10	Jack for Socket Insert, Crimp Type	HR339-ND	14.18	13.12	10.99	HR10A-10J-10SC
12	Jack for Socket Insert, Crimp Type	HR340-ND	13.74	12.71	10.65	HR10A-10J-12SC
20	Jack for Socket Insert, Crimp Type	HR341-ND	25.80	24.94	22.36	HR10A-13J-20SC
PCB Type						
4	Receptacle with Pin Insert	HR350-ND	6.71	5.68	4.26	HR10A-7R-4PB
6	Receptacle with Pin Insert	HR353-ND	9.39	7.95	5.96	HR10A-7R-6PB
6	Receptacle with Pin Insert	HR658-ND*	8.63	7.31	5.48	HR10A-7R-6PB(01)
10	Receptacle with Pin Insert	HR358-ND	9.48	8.24	6.60	HR10A-10R-10PB
12	Receptacle with Pin Insert	HR360-ND	10.90	9.48	7.59	HR10A-10R-12PB
12	Receptacle with Pin Insert	HR659-ND*	11.42	10.57	8.86	HR10A-10R-12PB(01)
20	Receptacle with Pin Insert	HR378-ND	17.25	16.68	14.95	HR10A-13R-20PB
4	Receptacle with Socket Insert	HR351-ND	7.07	5.99	4.49	HR10A-7R-4SB
4	Receptacle with Socket Insert	HR660-ND*	7.77	6.58	4.94	HR10A-7R-4SB(01)
5	Receptacle with Socket Insert	HR352-ND	6.53	5.53	4.15	HR10A-7R-5SB
6	Receptacle with Socket Insert	HR354-ND	7.23	6.12	4.59	HR10A-7R-6SB
6	Receptacle with Socket Insert	HR661-ND*	8.01	6.78	5.09	HR10A-7R-6SB(01)
10	Receptacle with Socket Insert	HR359-ND	9.52	8.28	6.63	HR10A-10R-10SB
10	Receptacle with Socket Insert	HR662-ND*	9.48	8.24	6.60	HR10A-10R-10SB(01)
12	Receptacle with Socket Insert	HR361-ND	11.22	9.76	7.81	HR10A-10R-12SB
12	Receptacle with Socket Insert, Stamped Dip Post (0.2mm x 0.5mm)	HR663-ND*	11.32	9.84	7.88	HR10A-10R-12SB(01)
12	Receptacle with Socket Insert, Machined Dip Post, Ø (0.55mm)	HR664-ND*	27.90	26.97	24.18	HR10A-10R-12SD(01)
20	Receptacle with Socket Insert	HR380-ND	17.25	16.68	14.95	HR10A-13R-20SB
	Receptacle with Socket Insert	HR665-ND*	19.20	18.56	16.64	HR10A-13R-20SB(01)
Threaded Coupling, Solder Cup Type						
6	Plug with Pin Insert	HR355-ND	15.30	14.79	13.26	HR10A-7TP-6P
6	Plug with Pin Insert	HR356-ND*	15.75	15.23	13.65	HR10A-7TP-6P(01)
12	Plug with Pin Insert	HR364-ND	19.35	18.71	16.77	HR10A-10TP-12P
12	Plug with Pin Insert	HR371-ND	19.65	19.00	17.03	HR10A-10WTP-12P
12	Plug with Pin Insert	HR673-ND*	20.70	20.01	17.94	HR10A-10WTP-12P(01)
20	Plug with Pin Insert	HR382-ND	36.60	35.38	31.72	HR10A-13TPD-20P
20	Plug with Pin Insert, No Teflon Washer	HR666-ND*	36.12	34.32	32.25	HR10A-13TPD-20P(01)
20	Plug with Pin Insert, White, Teflon Washer in Coupling Ring	HR667-ND*	45.91	43.62	40.99	HR10A-13TPK-20P(01)
12	Plug with Socket Insert	HR366-ND	19.95	19.29	17.29	HR10A-10TPA-12S
	Plug with Socket Insert	HR668-ND*	21.60	20.88	18.72	HR10A-10TPA-12S(01)
	Plug with Socket Insert	HR372-ND	19.35	18.71	16.77	HR10A-10WTP-12S
12	Plug with Socket Insert	HR674-ND*	21.00	20.30	18.20	HR10A-10WTP-12S(01)
20	Plug with Socket Insert	HR669-ND*	45.64	43.36	40.75	HR10A-13TPD-20S(01)
12	Receptacle with Pin Insert, 0.8mm Diameter Solder Cups	HR675-ND*	15.75	15.23	13.65	HR10A-10WTR-12P(01)
6	Receptacle with Socket Insert	HR346-ND	16.20	15.66	14.04	HR10-7TR-6S
12	Receptacle with Socket Insert	HR368-ND	12.60	11.66	9.77	HR10A-10TR-12S
12	Receptacle with Socket Insert	HR373-ND	15.08	14.20	12.42	HR10A-10WTR-12S
12	Jack with Socket Insert	HR363-ND	15.90	15.37	13.78	HR10A-10TJ-12S
	Jack with Socket Insert	HR678-ND*	25.80	24.94	22.36	HR10A-10WTJ-12S(01)
12	Jack with Pin Insert	HR362-ND	17.55	16.97	15.21	HR10A-10TJ-12P
Threaded Coupling, Crimp Type (contacts sold separately)						
12	Plug for Pin Insert, Crimp Type	HR365-ND	18.45	17.84	15.99	HR10A-10TP-12PC
12	Recept. for Socket Insert, Crimp Type	HR370-ND	11.46	10.61	8.89	HR10A-10TR-12SC
20	Recept. for Socket Insert, Crimp Type	HR385-ND	17.10	16.53	14.82	HR10A-13TR-20SC
Threaded Coupling, PCB Type						
6	Receptacle with Socket Insert	HR357-ND	14.96	14.08	12.32	HR10A-7TR-6SA
6	Receptacle with Socket Insert	HR671-ND*	15.69	14.77	12.93	HR10A-7TR-6SA(01)
12	Receptacle with Socket Insert	HR369-ND	12.60	11.66	9.77	HR10A-10TR-12SB
12	Receptacle with Socket Insert	HR374-ND	15.08	14.20	12.42	HR10A-10WTR-12SB
12	Receptacle with Socket Insert	HR677-ND*	26.88	25.99	23.30	HR10A-10WTRB-12SB(01)
20	Receptacle with Socket Insert	HR384-ND	20.85	20.16	18.07	HR10A-13TR-20SB
20	Receptacle with Socket Insert	HR672-ND*	22.95	22.19	19.89	HR10A-13TR-20SB(01)
12	Receptacle with Pin Insert	HR367-ND	12.60	11.66	9.77	HR10A-10TR-12PB
12	Receptacle with Pin Insert, 0.55mm Diameter Machined Dip Posts	HR676-ND*	17.55	16.97	15.21	HR10A-10WTR-12PA(01)
20	Receptacle with Pin Insert	HR383-ND	20.85	20.16	18.07	HR10A-13TR-20PB
	Receptacle with Pin Insert	HR670-ND*	22.95	22.19	19.89	HR10A-13TR-20PB(01)
—	Dust Cap for 4-6 Position Recept.	HR345-ND	2.76	2.30	1.70	HR10-7R-C
—	Dust Cap for 10-12 Position Recept.	HR349-ND	3.05	2.52	1.89	HR10-10R-C
—	Dust Cap for 20 Position Receptacle	HR381-ND	3.28	2.72	2.04	HR10A-13R-C
—	Male Pin, Crimped, Gold	HR450-ND	—	.28	.16	HR10-PC-111
—	Female Socket, Crimped, Gold	HR452-ND	—	.34	.19	HR12-SC-111
—	Male Pin, Crimped, Silver	HR451-ND	—	.23	.13	HR10-PC-112
—	Female Socket, Crimped, Silver	HR453-ND	—	.27	.16	HR12-SC-112
Tools						
—	Hand Contact Crimp Tool	HR497-ND		651.70/1		HR12-SC-TC
—	Hand Cable Crimp Tool	H9974-ND		332.50/1		HR10A-TC-02
—	Extraction Tool for Female Sockets	HR498-ND		13.00/1		HR12-SC-TP
—	Extraction Tool for Male Pins	HR499-ND		8.68/1		RP6-SC-TP

* Gold Plated

MXR Series - Circular Connectors

Miniature Push-Pull Connectors with Ground Function

MXR type connectors are miniature, lightweight, push-pull lock connectors with a ground function which has been developed for use with VTR camera and system camera interfaces.

Features:

- The single action push-pull lock function allows quick connections and disconnections as well as high density mounting
- Verification of a secure engagement is afforded by a click sound which exemplifies the fine feel of this lock system
- Use of aluminum alloy for the shell has contributed to the lightweight design
- One of the three conductors makes contact before the others in this sequenced design.

Specifications:

• **Withstand Voltage:** 300VAC for 1 minute • **Current Capacity:** 2A • **Insulation Resistance:** 1000MΩ or greater at 100VDC • **Contact Resistance:** 20mΩ or less at 1A AC • **Solder Pot Diameter:** 0.9mm diameter **Applications:** VTR cameras, system cameras, audio equipment, etc. **Materials:** • **Shell:** Aluminum alloy, nickel plating • **Insulation:** PBT resin, black, UL94V-0 • **Male Pins:** Brass, gold plating • **Female Pins:** Phosphor bronze, partial gold plating

Fig. 1 – Plug

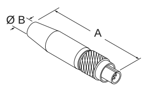

Fig. 2 – Solder Cup

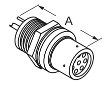

Fig. 3 – Solder Pin

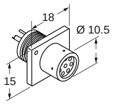

Fig.	No. of Contacts	Description	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
Plug										
1	3	Bushing, Black	47	5	HR603-ND	15.11	14.61	13.60	13.10	MXR-8PA-3PB
	4	Bushing, Black	47	5	HR604-ND	15.32	14.81	13.79	13.28	MXR-8PA-4PB
	6	Bushing, Black	47	5	HR606-ND	15.14	14.64	13.63	13.12	MXR-8PA-6PB
	8	Bushing, Black	50	8	HR608-ND	16.29	15.75	14.67	14.12	MXR-8P-8P
	8	Bushing, White	50	8	HR610-ND	16.50	15.95	14.85	14.30	MXR-8P-8P(01)
Receptacles										
2	3	Solder Cup	19.3	—	HR613-ND	9.52	8.28	7.46	6.63	MXR-8RA-3S
	4		19.3	—	HR614-ND	9.87	8.58	7.73	6.87	MXR-8RA-4S
	6		19.3	—	HR616-ND	8.95	7.78	7.01	6.23	MXR-8RA-6S
	8		20.4	—	HR618-ND	10.83	9.42	8.48	7.54	MXR-8RA-8S
3	3	Solder Pin	—	—	HR623-ND	9.52	8.28	7.46	6.63	MXR-8R-3SA
	4		—	—	HR624-ND	9.87	8.58	7.73	6.87	MXR-8R-4SA
	6		—	—	HR626-ND	10.35	9.00	8.10	7.20	MXR-8R-6SA
	8		—	—	HR628-ND	10.83	9.42	8.48	7.54	MXR-8R-8SA
Tools										
Tool, Tightening Jig					H9988-ND		199.50/1			MXR-8P-T01
Tool, Cable Crimper					H9989-ND		305.90/1			HR10A-TC-04

(Continued)

HR30 Series Miniature Waterproof Plastic Connectors

Features: Miniature and compact design: The HR30 allows for a maximum outside diameter of 12.6mm in the 3 and 6 positions, and 15.5mm for the 10 and 12 position connectors. The compact design yields a mated length from the panel of only 32.3mm for the 3 and 6 position version and 42.1mm for the 10 and 12 position. Water-tight connection: Meets the IP67 standard, when in the mated position. Push-pull lock-Using Hirose"s unique lock mechanism, the HR30 connector has a reliable, robust "push-pull" lock that is easy to operate. Light-weight and corrosion free.

Applications: Test and measurement equipment, communication equipment, and other miniature electronic devices.

Specifications: Rated Current: 5A (3 position), 2A (6, 10, 12 position). Operation Temperature Range: -25ºC ~ 85ºC. Rated Voltage: AC100V, DC140V (3, 6 position), AC30V, DC42V (10, 12 position). Storage Temperature Range: -25ºC ~ 85ºC. Contact Resistance: 5mΩ maximum (3 position) 15mΩ maximum (6, 10, 12 position) measured at 1A DC. Insulation Resistance: 1000MΩ minimum measured at 100VDC. Waterproof Performance: Water must not penetrate inside the connector. While mated with a applicable connector, leave under water at a depth of 1m for half hour.

Material: ***Plug:*** Insulator: PPS and PBT, black, UL94V-0, polyacetal, natural. Gasket: SIR/CR, red/black. Contacts: Brass, phosphor bronze, gold plating. Spring: Stainless steel. ***Receptacles:*** Insulator: PPS, black, UL94V-0. Gasket: CR, black. Contacts: Brass, phosphor bronze, gold plating. Hexagonal nut: Zinc alloy, chromate. Washer: Phosphor bronze, nickel plating. ***Crimp Contacts:*** Contacts: Phosphor bronze, selective gold plating.

Dim. in mm

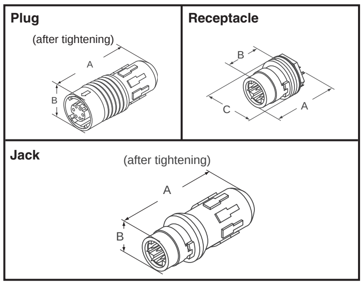
Plug (after tightening)
Receptacle
Jack (after tightening)

Digi-Key Part No.	Cable Diameter	Dim. A	Dim. B	Dim. C
HR856-ND	4.2~5	29.8	12.6	—
HR857-ND	4.2~5	30.3	12.6	—
HR858-ND	3.5~4.3	29.8	12.6	—
HR859-ND	3.5~4.3	29.8	12.6	—
HR860-ND	3.5~4.3	30.3	12.6	—
HR864-ND	—	16	8.3	12
HR865-ND	—	16	8.3	12
HR866-ND	—	18.4	8.3	12
HR869-ND	—	15.5	9.3	15
HR870-ND	4.2~5	28.9	12	—
HR871-ND	3.5~4.3	28.9	12	—
HR872-ND	6.2~7	38	15	—
HR874-ND	6.2~7	38	15	—

Con-tacts	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
	Solder Type						
6	Plug, Solder Female Contact	HR856-ND	6.79	5.75	4.83	4.31	HR30-6P-6S
6	Plug, Solder Male Contact	HR857-ND	7.54	6.38	5.37	4.79	HR30-6P-6P
3	Plug, Solder, Fine Wire, Female Contact	HR858-ND	10.35	9.00	8.10	7.20	HR30-6PA-3S
6	Plug, Solder, Fine Wire, Female Contact	HR859-ND	6.79	5.75	4.83	4.31	HR30-6PA-6S
6	Plug, Solder, Fine Wire, Male Contact	HR860-ND	7.54	6.38	5.37	4.79	HR30-6PA-6P
3	Receptacle, Solder, Male Contact	HR864-ND	7.75	6.56	5.52	4.92	HR30-6R-3P
6	Receptacle, Solder, Male Contact	HR865-ND	6.32	5.24	4.36	3.93	HR30-6R-6P
6	Receptacle, Solder, Female Contact	HR866-ND	6.99	5.92	4.98	4.44	HR30-6R-6S
6	Jack, Solder, Male Contact	HR870-ND	7.18	6.08	5.11	4.56	HR30-6J-6P
6	Jack, Solder, Fine Wire, Male Contact	HR871-ND	7.18	6.08	5.11	4.56	HR30-6JA-6P
	NEW! Solder Type — RoHs Compliant NEW!						
3	Plug, Solder Female Contact	HR578-ND	10.35	9.00	8.10	7.20	HR30-6P-3S(71)
6	Plug, Solder Female Contact	HR579-ND	6.79	5.75	4.83	4.31	HR30-6P-6S(71)
6	Plug, Solder Male Contact	HR580-ND	7.75	6.56	5.52	4.92	HR30-6P-6P(71)
3	Plug, Solder, Fine Wire, Female Contact	HR581-ND	10.35	9.00	8.10	7.20	HR30-6PA-3S(71)
6	Plug, Solder, Fine Wire, Female Contact	HR582-ND	6.79	5.75	4.83	4.31	HR30-6PA-6S(71)
6	Plug, Solder, Fine Wire, Male Contact	HR583-ND	7.75	6.56	5.52	4.92	HR30-6PA-6P(71)
3	Receptacle, Solder, Male Contact	HR587-ND	7.93	6.71	5.65	5.04	HR30-6R-3P(71)
6	Receptacle, Solder, Male Contact	HR588-ND	6.96	5.76	4.80	4.32	HR30-6R-6P(71)
6	Receptacle, Solder, Female Contact	HR589-ND	7.20	6.10	5.13	4.58	HR30-6R-6S(71)
6	Jack, Solder, Male Contact	HR593-ND	7.36	6.23	5.24	4.67	HR30-6J-6P(71)
6	Jack, Solder, Fine Wire, Male Contact	HR594-ND	7.20	6.10	5.13	4.58	HR30-6JA-6P(71)
	Crimp Type (Contacts sold seperately)						
12	Receptacle, Crimp, Female Contact	HR869-ND	4.84	4.01	3.34	3.01	HR30-8R-12SC
10	Jack, Crimp, Male Contact	HR872-ND	6.53	5.40	4.50	4.05	HR30-7J-10PC
12	Jack, Crimp, Female Contact	HR874-ND	6.53	5.40	4.50	4.05	HR30-8J-12SC
—	Dust Cap for Plugs - Solder	HR875-ND	2.37	1.98	1.65	1.46	HR30-6P-C
—	Dust Cap for Plugs - Crimp	HR877-ND	2.37	1.98	1.65	1.46	HR30-8P-C
—	Dust Cap for Solder Type Receptacle	HR878-ND	2.37	1.98	1.65	1.46	HR30-6R-C
—	Dust Cap for Crimp Type Receptacle	HR879-ND	2.37	1.98	1.65	1.46	HR30-7R-C
	NEW! Crimp Type (Contacts sold seperately) — RoHs Compliant NEW!						
10	Plug, Crimp, Female Contact	HR584-ND	6.96	5.76	4.80	4.32	HR30-7P-10SC(71)
12	Plug, Crimp, Female Contact	HR585-ND	6.96	5.76	4.80	4.32	HR30-7P-12SC(71)
12	Plug, Crimp, Male Contact	HR586-ND	6.96	5.76	4.80	4.32	HR30-8P-12PC(71)
10	Receptacle, Crimp, Male Contact	HR590-ND	5.10	4.23	3.52	3.17	HR30-7R-10PC(71)
12	Receptacle, Crimp, Male Contact	HR591-ND	5.10	4.23	3.52	3.17	HR30-7R-12PC(71)
12	Receptacle, Crimp, Female Contact	HR592-ND	5.10	4.23	3.52	3.17	HR30-8R-12SC(71)
10	Jack, Crimp, Male Contact	HR595-ND	6.53	5.40	4.50	4.05	HR30-7J-10PC(71)
12	Jack, Crimp, Male Contact	HR596-ND	6.53	5.40	4.50	4.05	HR30-7J-12PC(71)
12	Jack, Crimp, Female Contact	HR597-ND	6.53	5.40	4.50	4.05	HR30-8J-12SC(71)
—	Dust Cap for Plugs - Solder	HR598-ND	2.37	1.98	1.65	1.46	HR30-6P-C(71)
—	Dust Cap for Plugs - Crimp	HR599-ND	2.37	1.98	1.65	1.46	HR30-7P-C(71)
—	Dust Cap for Plugs - Crimp	HR600-ND	2.37	1.98	1.65	1.46	HR30-8P-C(71)
—	Dust Cap for Solder Type Receptacle	HR601-ND	2.37	1.98	1.65	1.46	HR30-6R-C(71)
—	Dust Cap for Crimp Type Receptacle	HR602-ND	2.37	1.98	1.65	1.46	HR30-7R-C(71)
	Tools						
	Wiring Jig for Solder Plugs	H9950-ND	199.50/1				HR30-6P-6S-T01
	Wiring Jig for Receptacle and Jack	H9951-ND	199.50/1				HR30-6R-6P-T01
	Back Shell Tightening Collar	H9952-ND	131.60/1				HR30-6P-T02
	Manual Crimping Tool	H9953-ND	1053.00/1				HT-102/HR30-1

Description	Digi-Key Part No.	Loose Piece Pricing 100	Hirose Part No.	Cut Tape* Pricing 10	50	100	Tape & Reel† Pricing 10,000	Hirose Part No.
Contacts - Male - Phosphor Bronze with Selective Gold Plating								
26-30AWG	HR880-ND	19.50	HR30-PC-111	2.57	8.56	14.75	74.00/M	HR30-PC-211
Contacts - Female - Phosphor Bronze with Selective Gold Plating								
26-30AWG	HR881-ND	19.50	HR30-SC-111	2.57	8.56	14.75	74.00/M	HR30-SC-211

* For Cut Tape, add CT to the Digi-Key Part No. (HR880CT-ND)

† For Tape and Reel add TR to the Digi-Key Part No. (HR880TR-ND).

KMC Series

9mm Bayonet Lock Connectors
Waterproof

Features: Five-key mechanism between two metal shells assures error-free polarization in coupling • Bayonet lock offers easier coupling with higher reliability than thread lock.

Electrical Specifications: • Insulation Resistance: minimum 2000MΩ at DC100V • Contact Resistance: maximum 10mΩ at DC1A • Current Rating: 2A

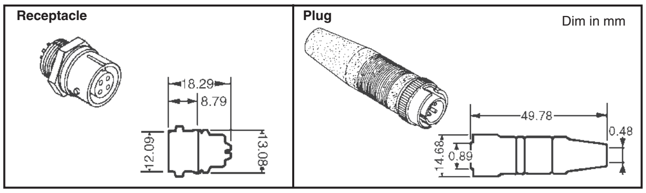
Receptacle
Plug
Dim in mm

Con-tacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
4	Plug with Pin Insert	HR400-ND	18.30	17.69	15.86	KMC9BPD-4P
6	Plug with Pin Insert	HR401-ND	22.95	22.19	19.89	KMC9BPD-6P
4	Receptacle with Socket Insert	HR402-ND	12.14	11.23	9.41	KMC9BRD-4S
6	Receptacle with Socket Insert	HR403-ND	12.60	11.66	9.77	KMC9BRD-6S

RM Series 12mm Video Connectors *Does not have rubber boot.*

Features: • Pipe shaped socket contact for long life reliable operation • UL94V-0 diallyl phthalate molding material for excellent electrical and mechanical characteristics • Sleek design with grainy matte finish • Bayonet type coupling for easy operation • Reversible pin and socket insert • 2, 3, 4, 5, 6, and 7 pin available in the common diecasting body • Jack available for cable extension program

Specifications: • Operating Voltage: AC600V (2 pin) AC500V (3 and 4 pin) AC350V (5, 6 and 7 pin) • Current rating: 5 amps • Insulation resistance: minimum 1,000MΩ at DC500V • Contact resistance: maximum 4mΩ • Solder cup diameter: 1.1mm (.043") • Temp. cycling: -55°C ~ 85°C • Contact durability: 2000 times at maximum 8mΩ

Fig. 1 – Plug

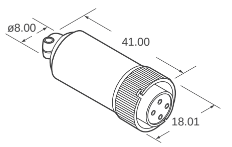

Fig. 2 – Receptacle

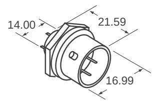

Fig. 3 – Receptacle (Square Flange)

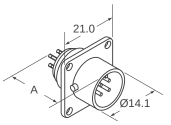

Fig. 4 – Jack

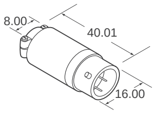

Fig. 5 – Plug Waterproof

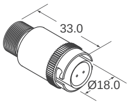

Fig. 6 – Receptacle Waterproof

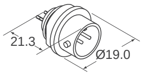

Fig. 7 – Cable Clamp

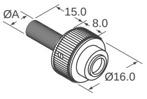

Dim in mm

Fig.	Con-tacts	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
1	2	Plug with Pin Insert	—	HR882-ND	10.40	9.04	8.14	7.24	RM12BPE-2PH
	3	Plug with Pin Insert	—	HR884-ND	10.70	9.30	8.37	7.44	RM12BPE-3PH
	4	Plug with Pin Insert	—	HR886-ND	10.99	9.56	8.61	7.65	RM12BPE-4PH
	5	Plug with Pin Insert	—	HR888-ND	11.29	9.82	8.84	7.86	RM12BPE-5PH
	6	Plug with Pin Insert	—	HR890-ND	10.08	9.33	8.37	7.82	RM12BPE-6PH
	7	Plug with Pin Insert	—	HR892-ND	10.34	9.57	8.59	8.02	RM12BPE-7PH
	2	Plug with Socket Insert	—	HR883-ND	10.08	9.33	8.37	7.82	RM12BPE-2S
	3	Plug with Socket Insert	—	HR885-ND	10.46	9.68	8.69	8.11	RM12BPE-3S
	4	Plug with Socket Insert	—	HR887-ND	10.86	10.05	9.02	8.42	RM12BPE-4S
	5	Plug with Socket Insert	—	HR889-ND	11.24	10.40	9.33	8.72	RM12BPE-5S
	6	Plug with Socket Insert	—	HR891-ND	11.62	10.75	9.65	9.01	RM12BPE-6S
	7	Plug with Socket Insert	—	HR893-ND	12.02	11.12	9.98	9.32	RM12BPE-7S
2	2	Receptacle with Pin Insert	—	HR221-ND	6.00	4.97	4.14	3.73	RM12BRD-2PH
	3	Receptacle with Pin Insert	—	HR223-ND	6.38	5.28	4.40	3.96	RM12BRD-3PH
	4	Receptacle with Pin Insert	—	HR225-ND	6.76	5.60	4.66	4.20	RM12BRD-4PH
	5	Receptacle with Pin Insert	—	HR227-ND	7.11	5.88	4.90	4.41	RM12BRD-5PH
	6	Receptacle with Pin Insert	—	HR229-ND	6.71	5.68	4.78	4.26	RM12BRD-6PH
	7	Receptacle with Pin Insert	—	HR231-ND	7.05	5.97	5.02	4.48	RM12BRD-7PH
	2	Receptacle with Socket Insert	—	HR220-ND	6.71	5.68	4.78	4.26	RM12BRD-2S
	3	Receptacle with Socket Insert	—	HR222-ND	7.23	6.12	5.15	4.59	RM12BRD-3S
	4	Receptacle with Socket Insert	—	HR224-ND	7.72	6.54	5.50	4.91	RM12BRD-4S
	5	Receptacle with Socket Insert	—	HR226-ND	8.22	6.96	5.85	5.22	RM12BRD-5S
	6	Receptacle with Socket Insert	—	HR228-ND	8.74	7.40	6.22	5.55	RM12BRD-6S
	7	Receptacle with Socket Insert	—	HR230-ND	8.17	7.10	6.39	5.68	RM12BRD-7S
3	2	Receptacle with Pin Insert	20.5	HR1045-ND	4.50	3.72	3.10	2.79	RM12BRB-2PH
	3	Receptacle with Pin Insert	20.5	HR1046-ND	4.87	4.04	3.36	3.03	RM12BRB-3PH
	4	Receptacle with Pin Insert	20.5	HR1047-ND	5.25	4.35	3.62	3.26	RM12BRB-4PH
	5	Receptacle with Pin Insert	20.5	HR1048-ND	5.63	4.66	3.88	3.50	RM12BRB-5PH
	6	Receptacle with Pin Insert	20.5	HR1119-ND	6.00	4.97	4.14	3.73	RM12BRB-6PH
	7	Receptacle with Pin Insert	20.5	HR1049-ND	6.38	5.28	4.40	3.96	RM12BRB-7PH
	2	Receptacle with Socket Insert	21.6	HR1114-ND	6.00	4.97	4.14	3.73	RM12BRB-2S
	3	Receptacle with Socket Insert	21.6	HR1115-ND	6.55	5.43	4.52	4.07	RM12BRB-3S
	5	Receptacle with Socket Insert	21.6	HR1116-ND	6.89	5.83	4.91	4.38	RM12BRB-5S
	6	Receptacle with Socket Insert	21.6	HR1038-ND	7.38	6.25	5.26	4.69	RM12BRB-6S
	7	Receptacle with Socket Insert	21.6	HR1117-ND	7.90	6.69	5.63	5.02	RM12BRB-7S
4	2	Jack with Pin Insert	—	HR321-ND	8.55	7.24	6.09	5.43	RM12BJB-2PH
	3	Jack with Pin Insert	—	HR323-ND	8.89	7.53	6.33	5.65	RM12BJB-3PH
	4	Jack with Pin Insert	—	HR325-ND	8.17	7.10	6.39	5.68	RM12BJB-4PH
	5	Jack with Pin Insert	—	HR327-ND	8.46	7.36	6.63	5.89	RM12BJB-5PH

(Continued)

HIROSE ELECTRIC CO.,LTD.

Circular Connectors *(Cont.)*

RM Series 12mm Video Connectors *Does not have rubber boot.*

Fig.	Con-tacts	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
4	6	Jack with Pin Insert	—	HR329-ND	8.76	7.62	6.86	6.10	RM12BJB-6PH
	7	Jack with Pin Insert	—	HR331-ND	9.20	8.00	7.20	6.40	RM12BJB-7PH
	2	Jack with Socket Insert	—	HR320-ND	11.29	9.82	8.84	7.86	RM12BJB-2S(07)
	3	Jack with Socket Insert	—	HR322-ND	10.20	9.44	8.47	7.91	RM12BJB-3S(07)
	4	Jack with Socket Insert	—	HR324-ND	10.60	9.81	8.80	8.22	RM12BJB-4S(07)
	5	Jack with Socket Insert	—	HR326-ND	10.98	10.16	9.12	8.51	RM12BJB-5S(07)
	6	Jack with Socket Insert	—	HR328-ND	11.36	10.51	9.43	8.81	RM12BJB-6S(07)
	7	Jack with Socket Insert	—	HR330-ND	11.76	10.88	9.77	9.12	RM12BJB-7S(07)
Waterproof Type									
5	2	Plug with Pin Insert	—	HR1078-ND	14.86	13.75	12.34	11.52	RM12WBP-2P
	3	Plug with Pin Insert	—	HR1079-ND	12.85	12.10	10.97	10.59	RM12WBP-3P
	4	Plug with Pin Insert	—	HR1080-ND	13.07	12.31	11.16	10.77	RM12WBP-4P
	5	Plug with Pin Insert	—	HR1081-ND	13.28	12.50	11.33	10.94	RM12WBP-5P
	6	Plug with Pin Insert	—	HR1082-ND	13.50	12.71	11.52	11.12	RM12WBP-6P
	2	Plug with Socket Insert	—	HR1074-ND	13.50	12.71	11.52	11.12	RM12WBP-2S
	3	Plug with Socket Insert	—	HR1075-ND	13.94	13.12	11.89	11.48	RM12WBP-3S
	4	Plug with Socket Insert	—	HR1076-ND	14.38	13.54	12.27	11.85	RM12WBP-4S
	5	Plug with Socket Insert	—	HR1077-ND	14.82	13.96	12.65	12.21	RM12WBP-5S
	6	Plug with Socket Insert	—	HR1121-ND	13.74	12.71	11.41	10.65	RM12WBP-6S
6	2	Receptacle with Pin Insert	—	HR1063-ND	10.10	8.78	7.91	7.03	RM12WBR-2P
	3	Receptacle with Pin Insert	—	HR1064-ND	10.40	9.04	8.14	7.24	RM12WBR-3P
	4	Receptacle with Pin Insert	—	HR1065-ND	10.70	9.30	8.37	7.44	RM12WBR-4P
	5	Receptacle with Pin Insert	—	HR1066-ND	10.99	9.56	8.61	7.65	RM12WBR-5P
	6	Receptacle with Pin Insert	—	HR1067-ND	11.29	9.82	8.84	7.86	RM12WBR-6P
	2	Receptacle with Socket Insert	—	HR1068-ND	11.29	9.82	8.84	7.86	RM12WBR-2S
	3	Receptacle with Socket Insert	—	HR1069-ND	10.34	9.57	8.59	8.02	RM12WBR-3S
	4	Receptacle with Socket Insert	—	HR1070-ND	10.86	10.05	9.02	8.42	RM12WBR-4S
	5	Receptacle with Socket Insert	—	HR1071-ND	11.36	10.51	9.43	8.81	RM12WBR-5S
	6	Receptacle with Socket Insert	—	HR1072-ND	11.88	10.99	9.87	9.21	RM12WBR-6S
7		Cable Clamp, 4mm Diameter	5.5	HR1083-ND	5.42	4.49	3.74	3.37	RM12WBP-CP(4)
		Cable Clamp, 5mm Diameter	5.5	HR1084-ND	5.42	4.49	3.74	3.37	RM12WBP-CP(5)
		Cable Clamp, 6mm Diameter	7.5	HR1085-ND	5.42	4.49	3.74	3.37	RM12WBP-CP(6)
		Cable Clamp, 7mm Diameter	7.5	HR1086-ND	5.42	4.49	3.74	3.37	RM12WBP-CP(7)
—		Receptacle Cover for RM12 Series	—	HR1073-ND	8.17	7.10	6.39	5.68	RM12WBR-C

RM Series 15mm Video Connectors

Specifications: • Operating Voltage: AC350V, DC490V • Current Rating: 5A • Insulation Resistance: 1000MΩ minimum at DC500V • Contact Resistance: 14mΩ maximum at DC1A • Operating Temperature : -25°C ~ 85°C • Applicable Cable Diameter: 8mm maximum • Fig. 1 and Fig. 4 include rubber boot.

Fig. 1 – Threaded Plug

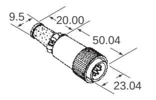

Fig. 2 – Threaded Plug

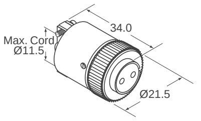

Fig. 3 – Receptacle

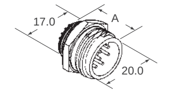

Fig. 4 – Jack

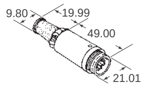

Fig. 5 – Waterproof Plug

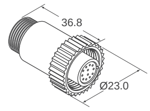

Fig. 6 – Waterproof Receptacle

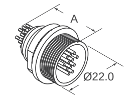

Fig. 7 – Cable Clamp

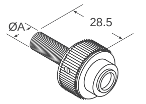

Fig.	Con-tacts	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
1	10	Plug with Pin Insert	—	HR1043-ND†	13.28	12.29	10.30	RM15TPD-10PC
	10	Plug with Pin Insert	—	HR106-ND	13.67	12.87	11.26	RM15TPD-10P
	12	Plug with Pin Insert	—	HR107-ND	14.23	13.40	11.72	RM15TPD-12P
	10	Plug with Socket Insert	—	HR108-ND	14.22	13.16	11.03	RM15TPD-10S
	12	Plug with Socket Insert	—	HR109-ND	16.35	15.81	14.17	RM15TPD-12S
2	2	Plug with Pin Insert	—	HR1061-ND	10.62	9.83	8.24	RM15TP-2PA
	4	Plug with Pin Insert	—	HR1062-ND	11.16	10.33	8.65	RM15TP-4PA
	8	Plug with Pin Insert	—	HR1054-ND	11.70	10.83	9.07	RM15TP-8PH
	10	Plug with Pin Insert	—	HR1055-ND	14.01	13.19	11.54	RM15TP-10PH
	2	Plug with Socket Insert	—	HR1050-ND	12.22	11.31	9.48	RM15TP-2SA
	4	Plug with Socket Insert	—	HR1051-ND	14.62	13.53	11.34	RM15TP-4SA
	8	Plug with Socket Insert	—	HR1034-ND	14.01	13.19	11.54	RM15TP-8S
	10	Plug with Socket Insert	—	HR1035-ND	15.25	14.36	12.56	RM15TP-10S
3	2	Receptacle with Pin Insert	21.00	HR1059-ND	8.26	7.18	5.75	RM15TRH-2PA
	4	Receptacle with Pin Insert	21.00	HR1060-ND	8.56	7.44	5.96	RM15TRH-4PA
	8	Receptacle with Pin Insert	20.60	HR1056-ND	9.48	8.24	6.60	RM15TRH-8PH
	10	Receptacle with Pin Insert	20.60	HR1057-ND	10.07	8.76	7.01	RM15TRH-10PH
	10	Receptacle with Pin Insert	21.29	HR206-ND	8.81	7.46	5.60	RM15TRD-10P
	12	Receptacle with Pin Insert	21.29	HR207-ND	8.56	7.44	5.96	RM15TRD-12P
	2	Receptacle with Socket Insert	21.70	HR1052-ND	10.07	8.76	7.01	RM15TRH-2SA
	4	Receptacle with Socket Insert	21.70	HR1053-ND	11.16	10.33	8.65	RM15TRH-4SA
	8	Receptacle with Socket Insert	21.60	HR1058-ND	13.02	12.05	10.10	RM15TRH-8S
	10	Receptacle with Socket Insert	21.60	HR1120-ND	14.48	13.40	11.23	RM15TRH-10S
	10	Receptacle with Socket Insert	21.29	HR208-ND	10.99	9.56	7.65	RM15TRD-10S
	10	Receptacle with Socket Insert	32.30	HR1044-ND	8.10	7.04	5.64	RM15TRD-10SB
	10	Receptacle with Socket Insert	19.50	HR1042-ND†	10.62	9.83	8.24	RM15TRD-10SC
	12	Receptacle with Socket Insert	21.29	HR209-ND	12.36	11.44	9.58	RM15TRD-12S
4	10	Jack Extension with Pin Insert	—	HR306-ND	14.74	13.64	11.43	RM15TJD-10P
	12	Jack Extension with Pin Insert	—	HR307-ND	11.32	9.84	7.88	RM15TJD-12P
	10	Jack Extension with Socket Insert	—	HR308-ND	13.21	12.44	10.88	RM15TJD-10S
	12	Jack Extension with Socket Insert	—	HR309-ND	13.55	12.76	11.16	RM15TJD-12S
Waterproof Type								
5	2	Plug with Pin Insert	—	HR1088-ND	12.77	12.02	10.52	RM15WTP-2P
	4	Plug with Pin Insert	—	HR1089-ND	13.21	12.44	10.88	RM15WTP-4P
	8	Plug with Pin Insert	—	HR1090-ND	13.67	12.87	11.26	RM15WTP-8P
	10	Plug with Pin Insert	—	HR1091-ND	14.11	13.28	11.62	RM15WTP-10P
	12	Plug with Pin Insert	—	HR1097-ND	14.57	13.72	12.00	RM15WTP-12P
	2	Plug with Socket Insert	—	HR1122-ND	14.11	13.28	11.62	RM15WTP-2S

Fig.	Con-tacts	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
5	4	Plug with Socket Insert	—	HR1123-ND	16.15	15.20	13.30	RM15WTP-4S
	8	Plug with Socket Insert	—	HR1087-ND	15.60	15.08	13.52	RM15WTP-8S
	10	Plug with Socket Insert	—	HR1124-ND	16.80	16.24	14.56	RM15WTP-10S
	12	Plug with Socket Insert	—	HR1100-ND	18.00	17.40	15.60	RM15WTP-12S
6	2	Receptacle with Pin Insert	21.00	HR1103-ND	11.16	10.33	8.65	RM15WTR-2P
	4	Receptacle with Pin Insert	21.00	HR1125-ND	11.70	10.83	9.07	RM15WTR-4P
	8	Receptacle with Pin Insert	20.50	HR1104-ND	12.22	11.31	9.48	RM15WTR-8P
	10	Receptacle with Pin Insert	20.50	HR1126-ND	12.76	11.81	9.89	RM15WTR-10P
	12	Receptacle with Pin Insert	21.00	HR1099-ND	13.28	12.29	10.30	RM15WTR-12P
	2	Receptacle with Socket Insert	21.50	HR1105-ND	12.76	11.81	9.89	RM15WTR-2S
	4	Receptacle with Socket Insert	21.50	HR1106-ND	12.87	12.12	10.60	RM15WTR-4S
	8	Receptacle with Socket Insert	21.50	HR1107-ND	14.45	13.60	11.90	RM15WTR-8S
	10	Receptacle with Socket Insert	21.50	HR1108-ND	15.69	14.77	12.93	RM15WTR-10S
	12	Receptacle with Socket Insert	21.50	HR1098-ND	16.71	15.73	13.77	RM15WTR-12S
7		Cable Clamp, 5mm Ø	6.5	HR1092-ND	5.97	4.95	3.71	RM15WTP-CP(5)
		Cable Clamp, 6mm Ø	6.5	HR1093-ND	5.97	4.95	3.71	RM15WTP-CP(6)
		Cable Clamp, 7mm Ø	8.0	HR1094-ND	5.97	4.95	3.71	RM15WTP-CP(7)
		Cable Clamp, 8mm Ø	10.5	HR1095-ND	5.97	4.95	3.71	RM15WTP-CP(8)
		Cable Clamp, 9mm Ø	10.5	HR1096-ND	6.50	5.38	4.04	RM15WTP-CP(9)
—		Cable Clamp, 7mm Ø, Length 17mm	—	HR1109-ND	13.67	12.87	11.26	RM15WTP-CP7
		Cable Clamp, 8mm Ø, Length 17mm	—	HR1101-ND	13.67	12.87	11.26	RM15WTP-CP8
		Cable Clamp, 9mm Ø, Length 17mm	—	HR1110-ND	13.67	12.87	11.26	RM15WTP-CP9
		Cable Clamp, 10mm Ø, Length 17mm	—	HR1102-ND	13.67	12.87	11.26	RM15WTP-CP10
—		Dust Cap for Plug with Chain	—	HR1036-ND	14.48	13.40	11.23	RM15TP-C
		Dust Cap for Receptacle with Chain	—	HR1037-ND	8.97	7.59	5.70	RM15TR-C

† Crimp Type

Description	Digi-Key Part No.	Pricing 10	50	100	Hirose Part No.
Contacts					
Crimp Contact Male, AWG 20-24	HR1118-ND	4.45	17.15	29.85	RM-PC-112
Crimp Contact Male, AWG 24-28	HR1040-ND	4.45	17.15	29.85	RM-PC-122
Crimp Contact Female, AWG 20-24	HR1039-ND	4.45	17.15	29.85	RM-SC-112
Crimp Contact Female, AWG 24-28	HR1041-ND	4.45	17.15	29.85	RM-SC-122
Tools					
Manual Crimping Tool, AWG 20-24	HR1111-ND		332.50/1		RM-TC-11
Manual Crimping Tool, AWG 24-28	HR1112-ND		332.50/1		RM-TC-12
Extraction Tool	HR1113-ND		10.00/1		RM-TP

JR Series Video Connectors Aluminum

Features: JR series connectors offer you excellent performances both electrically and mechanically, having five keys in the fitting section to assure quite smooth coupling.

Specifications: • Withstand Voltage: AC1000V a minute • Insulation Resistance: 1000MΩ minimum • Contact Resistance: 5mΩ maximum

Plug

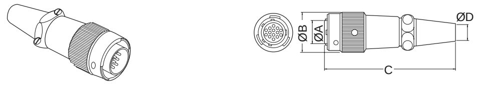

No. of Pins	Digi-Key Part No.	Dimensions (mm) A	B	C	D
7	HR138-ND, HR139-ND	16.31	26.97	78.49	11.00
10	HR140-ND, HR141-ND	16.31	26.97	78.49	11.00
14	HR142-ND, HR143-ND	16.31	26.97	78.49	11.00
26	HR144-ND, HR145-ND	20.50	30.99	97.99	12.19

Receptacle

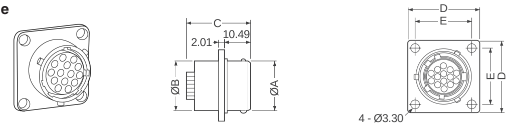

No. of Pins	Digi-Key Part No.	Dimensions (mm) A	B	C	D	E
7	HR146-ND	22.00	19.99	26.49	29.01	23.01
7	HR147-ND	22.00	19.99	27.69	29.01	23.01
10	HR148-ND, HR149-ND	22.00	19.99	26.49	29.01	23.01
14	HR150-ND	22.00	19.99	26.59	29.01	23.01
14	HR151-ND	22.00	19.99	25.78	29.01	23.01
26	HR152-ND	25.81	23.90	26.80	31.98	26.01
26	HR153-ND	25.81	23.90	27.99	31.98	26.01

Con-tacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
7	Plug with Pin Insert	HR138-ND	16.80	16.24	14.56	JRC16BP-7P
10	Plug with Pin Insert	HR140-ND	17.25	16.68	14.95	JRC16BP-10P
14	Plug with Pin Insert	HR142-ND	16.85	15.86	13.88	JRC16BP-14P
26	Plug with Pin Insert	HR144-ND	22.20	21.46	19.24	JRC21BPA-26P
7	Plug with Socket Insert	HR139-ND	16.65	16.10	14.43	JRC16BP-7S
10	Plug with Socket Insert	HR141-ND	17.85	17.26	15.47	JRC16BP-10S
14	Plug with Socket Insert	HR143-ND	16.65	16.10	14.43	JRC16BP-14S
26	Plug with Socket Insert	HR145-ND	22.20	21.46	19.24	JRC21BP-26S
7	Receptacle with Pin Insert	HR146-ND	10.92	10.11	8.47	JRC16BR-7P
10	Receptacle with Pin Insert	HR148-ND	11.60	10.73	8.99	JRC16BR-10P
14	Receptacle with Pin Insert	HR150-ND	9.45	8.22	6.58	JRC16BR-14P
26	Receptacle with Pin Insert	HR152-ND	13.62	12.60	10.56	JRC21BR-26P
7	Receptacle with Socket Insert	HR147-ND	10.92	10.11	8.47	JRC16BR-7S
10	Receptacle with Socket Insert	HR149-ND	11.60	10.73	8.99	JRC16BR-10S
14	Receptacle with Socket Insert	HR151-ND	10.64	9.85	8.25	JRC16BR-14S
26	Receptacle with Socket Insert	HR153-ND	12.94	11.97	10.03	JRC21BRA-26S

(Continued)

JR Series

High-Performance Water-proof Circular Connectors

Features:

- Water-proof to a depth of 1.8m for 48 hours. (IP67 or more) • Outer metal is plated with black chromium to prevent corrosion • Provided with five guides to make connection very smooth • Variable in shell sizes and core numbers.

Applications:

- Machine tools, FA-related equipment, communications equipment, various electronic equipment and devices

Fig. 1

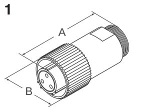

Fig. 2

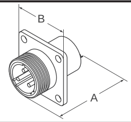

Fig. 3

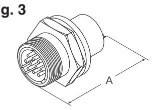

Fig. 4

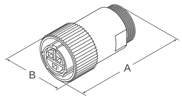

Fig. 5

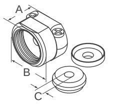

Fig. 6

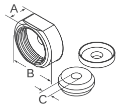

Contacts	Shell Size	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
Fig. 1 Plugs - Male Solder Type									
3	13	44.7	21.8	—	HR901-ND	15.01	14.13	12.37	JR13WP-3P
5	13	44.7	21.8	—	HR902-ND	15.23	14.34	12.55	JR13WP-5P
7	16	46.5	21.8	—	HR903-ND	16.95	15.96	13.96	JR16WP-7P
10	16	46.5	25.8	—	HR904-ND	15.30	14.79	13.26	JR16WP-10P
10	21	51	29.8	—	HR905-ND	16.65	16.10	14.43	JR21WP-10P
16	21	51	29.8	—	HR906-ND	17.25	16.68	14.95	JR21WP-16P
4	25	56	33.8	—	HR907-ND	23.25	22.48	20.15	JR25WP-4P
5	25	56	33.8	—	HR908-ND	21.90	21.17	18.98	JR25WP-5P
8	25	56	33.8	—	HR909-ND	22.80	22.04	19.76	JR25WP-8P
16	25	56	33.8	—	HR910-ND	19.65	19.00	17.03	JR25WP-16P
24	25	56	33.8	—	HR911-ND	20.40	19.72	17.68	JR25WP-24P
Fig. 1 Plugs - Female Solder Type									
3	13	44.7	21.8	—	HR912-ND	15.69	14.77	12.93	JR13WP-3S
5	13	44.7	21.8	—	HR913-ND	15.93	15.00	13.12	JR13WP-5S
7	16	46.5	25.8	—	HR914-ND	15.30	14.79	13.26	JR16WP-7S
10	16	46.5	25.8	—	HR915-ND	15.30	14.79	13.26	JR16WP-10S
10	21	51	29.8	—	HR916-ND	17.25	16.68	14.95	JR21WP-10S
16	21	51	29.8	—	HR917-ND	17.85	17.26	15.47	JR21WP-16S
4	25	56	33.8	—	HR918-ND	25.65	24.80	22.23	JR25WP-4S
5	25	56	33.8	—	HR919-ND	21.75	21.03	18.85	JR25WP-5S
8	25	56	33.8	—	HR920-ND	22.20	21.46	19.24	JR25WP-8S
16	25	56	33.8	—	HR921-ND	20.40	19.72	17.68	JR25WP-16S
24	25	56	33.8	—	HR922-ND	21.30	20.59	18.46	JR25WP-24S
Fig. 2 Receptacles - Male Solder Type									
3	13	26.6	26	—	HR923-ND	8.05	7.00	5.60	JR13WR-3P
5	13	26.1	26	—	HR924-ND	8.37	7.28	5.83	JR13WR-5P
7	16	26.6	29	—	HR925-ND	8.99	7.82	6.26	JR16WR-7P
10	16	26.1	29	—	HR926-ND	9.45	8.22	6.58	JR16WR-10P
10	21	26.6	32	—	HR927-ND	10.99	9.56	7.65	JR21WR-10P
16	21	26.1	32	—	HR928-ND	10.38	9.61	8.05	JR21WR-16P
4	25	28	35	—	HR929-ND	13.97	13.16	11.51	JR25WR-4P
5	25	26.6	35	—	HR930-ND	14.70	13.60	11.40	JR25WR-5P
8	25	26.6	35	—	HR931-ND	13.52	12.72	11.13	JR25WR-8P
16	25	26.6	35	—	HR932-ND	11.60	10.73	8.99	JR25WR-16P
24	25	26.1	35	—	HR933-ND	12.66	11.72	9.82	JR25WR-24P
Fig. 2 Receptacles - Female Solder Type									
3	13	28	26	—	HR934-ND	8.99	7.82	6.26	JR13WR-3S
5	13	27	26	—	HR935-ND	9.29	8.08	6.47	JR13WR-5S
7	16	28	29	—	HR936-ND	9.61	8.36	6.69	JR16WR-7S
10	16	27	29	—	HR937-ND	10.07	8.76	7.01	JR16WR-10S
10	21	28	32	—	HR938-ND	10.38	9.61	8.05	JR21WR-10S
16	21	27	32	—	HR939-ND	11.18	10.35	8.67	JR21WR-16S
4	25	28	35	—	HR940-ND	16.61	15.64	13.68	JR25WR-4S
5	25	27.8	35	—	HR941-ND	14.42	13.34	11.18	JR25WR-5S
8	25	27.8	35	—	HR942-ND	12.84	12.08	10.57	JR25WR-8S
16	25	28	35	—	HR943-ND	12.66	11.72	9.82	JR25WR-16S
24	25	27	35	—	HR944-ND	13.74	12.71	10.65	JR25WR-24S
Fig. 2 Receptacles - Male Crimp Type (contacts sold separately)									
3	16	27.6	29	—	HR959-ND§	9.15	7.96	6.37	JR16WR-3PC
10	16	25.1	29	—	HR960-ND‡	9.15	7.96	6.37	JR16WR-10PC
10	21	27.6	32	—	HR961-ND§	11.32	9.84	7.88	JR21WR-10PC
16	21	25.1	32	—	HR962-ND‡	11.48	9.98	7.99	JR21WR-16PC
24	25	25.1	35	—	HR963-ND‡	11.06	10.24	8.58	JR25WR-24PC
Fig. 2 Receptacles - Female Crimp Type (contacts sold separately)									
3	16	27.6	29	—	HR964-ND§	9.15	7.96	6.37	JR16WR-3SC
10	16	23.0	29	—	HR965-ND‡	9.15	7.96	6.37	JR16WR-10SC
10	21	27.6	32	—	HR966-ND§	11.48	9.98	7.99	JR21WR-10SC
16	21	23.0	32	—	HR967-ND‡	11.48	9.98	7.99	JR21WR-16SC
24	25	23.0	35	—	HR968-ND‡	11.06	10.24	8.58	JR25WR-24SC
Fig. 3 Receptacles - Male Solder Type									
4	25	28	—	—	HR1020-ND	15.23	14.34	12.55	JRC25WRG-4P
7	16	26.6	—	—	HR945-ND	11.32	10.48	8.78	JR16WRA-7P
8	25	26.8	—	—	HR1021-ND	14.21	13.38	11.71	JRC25WRG-8P
10	16	26.1	—	—	HR946-ND	11.72	10.85	9.09	JR16WRA-10P
16	25	26.8	—	—	HR1022-ND	15.35	14.45	12.65	JRC25WRG-16P
24	25	26.8	—	—	HR1023-ND	15.60	15.08	13.52	JRC25WRG-24P
Fig. 3 Receptacles - Female Solder Type									
4	25	27.9	—	—	HR1024-ND	15.75	15.23	13.65	JRC25WRG-4S
7	16	28	—	—	HR947-ND	11.86	10.98	9.20	JR16WRA-7S
8	25	27.8	—	—	HR1025-ND	13.52	12.72	11.13	JRC25WRG-8S
10	16	27	—	—	HR948-ND	12.26	11.35	9.51	JR16WRA-10S
16	25	27.8	—	—	HR1026-ND	15.13	14.24	12.46	JRC25WRG-16S
24	25	26.5	—	—	HR1027-ND	16.85	15.86	13.88	JRC25WRG-24S
Fig. 3 Receptacle - Male Crimp Type (contacts sold separately)									
3	16	27.6	—	—	HR969-ND§	11.46	10.61	8.89	JR16WRA-3PC
10	16	25.1	—	—	HR970-ND‡	11.46	10.61	8.89	JR16WRA-10PC
Fig. 3 Receptacle - Female Crimp Type (contacts sold separately)									
10	16	23	—	—	HR971-ND‡	11.46	10.61	8.89	JR16WRA-10SC
Fig. 4 Plugs - Male Crimp Type (contacts sold separately)									
3	16	46.5	21.8	—	HR949-ND§	15.00	14.50	13.00	JR16WP-3PC
10	16	46.5	25.8	—	HR950-ND‡	15.00	14.50	13.00	JR16WP-10PC
10	21	51	29.8	—	HR951-ND§	16.95	16.39	14.69	JR21WP-10PC
16	21	51	29.8	—	HR952-ND‡	16.95	16.39	14.69	JR21WP-16PC
24	25	56	33.8	—	HR953-ND‡	19.20	18.56	16.64	JR25WP-24PC
Fig. 4 Plugs - Female Crimp Type (contacts sold separately)									
3	16	46.5	25.8	—	HR954-ND§	15.00	14.50	13.00	JR16WP-3SC
10	16	46.5	25.8	—	HR955-ND‡	15.00	14.50	13.00	JR16WP-10SC
10	21	51	29.8	—	HR956-ND§	16.95	16.39	14.69	JR21WP-10SC
16	21	51	29.8	—	HR957-ND‡	16.95	16.39	14.69	JR21WP-16SC
24	25	56	33.8	—	HR958-ND‡	19.20	18.56	16.64	JR25WP-24SC
Fig. 5 - Cord Clamp									
—	13	17	20	4	HR972-ND	10.07	8.76	7.01	JR13WCC-4
—	13	17	20	5	HR973-ND	10.07	8.76	7.01	JR13WCC-5
—	13	17	20	6	HR974-ND	10.07	8.76	7.01	JR13WCC-6
—	13	17	20	7	HR975-ND	10.07	8.76	7.01	JR13WCC-7
—	13	17	20	8	HR976-ND	10.07	8.76	7.01	JR13WCC-8
—	13	17	20	9	HR977-ND	10.07	8.76	7.01	JR13WCC-9
—	13	17	20	10	HR978-ND	10.07	8.76	7.01	JR13WCC-10
—	16	17.5	23	4	HR979-ND	10.86	9.44	7.56	JR16WCC-4
—	16	17.5	23	6	HR980-ND	10.86	9.44	7.56	JR16WCC-6
—	16	17.5	23	8	HR981-ND	10.86	9.44	7.56	JR16WCC-8
—	16	17.5	23	10	HR982-ND	10.86	9.44	7.56	JR16WCC-10
—	16	17.5	23	12	HR983-ND	10.86	9.44	7.56	JR16WCC-12
—	21	17.5	27	6	HR984-ND	14.82	13.71	11.49	JR21WCC-6
—	21	17.5	27	8	HR985-ND	14.82	13.71	11.49	JR21WCC-8
—	21	17.5	27	10	HR986-ND	14.82	13.71	11.49	JR21WCC-10
—	21	17.5	27	12	HR987-ND	14.82	13.71	11.49	JR21WCC-12
—	21	17.5	27	14	HR988-ND	14.82	13.71	11.49	JR21WCC-14
—	21	17.5	27	16	HR989-ND	14.82	13.71	11.49	JR21WCC-16
—	25	18	31	8	HR990-ND	14.82	13.71	11.49	JR25WCC-8
—	25	18	31	10	HR991-ND	14.82	13.71	11.49	JR25WCC-10
—	25	18	31	12	HR992-ND	14.82	13.71	11.49	JR25WCC-12
—	25	18	31	14	HR993-ND	14.82	13.71	11.49	JR25WCC-14
—	25	18	31	16	HR994-ND	14.82	13.71	11.49	JR25WCC-16
—	25	18	31	18	HR995-ND	14.82	13.71	11.49	JR25WCC-18
Fig. 6 - Simple Cord Clamp									
—	13	7.5	19	4	HR996-ND	6.26	5.19	3.89	JR13WCCA-4
—	13	7.5	19	5	HR997-ND	6.26	5.19	3.89	JR13WCCA-5
—	13	7.5	19	6	HR998-ND	6.26	5.19	3.89	JR13WCCA-6
—	13	7.5	19	7	HR999-ND	6.26	5.19	3.89	JR13WCCA-7
—	13	7.5	19	8	HR1000-ND	6.26	5.19	3.89	JR13WCCA-8
—	13	7.5	19	9	HR1001-ND	6.26	5.19	3.89	JR13WCCA-9
—	13	7.5	19	10	HR1002-ND	6.26	5.19	3.89	JR13WCCA-10
—	16	8	23	4	HR1003-ND	7.22	5.98	4.49	JR16WCCA-4
—	16	8	23	6	HR1004-ND	7.22	5.98	4.49	JR16WCCA-6
—	16	8	23	8	HR1005-ND	7.22	5.98	4.49	JR16WCCA-8
—	16	8	23	10	HR1006-ND	7.22	5.98	4.49	JR16WCCA-10
—	16	8	23	12	HR1007-ND	7.22	5.98	4.49	JR16WCCA-12
—	21	8	27	6	HR1008-ND	8.67	7.54	6.04	JR21WCCA-6
—	21	8	27	8	HR1009-ND	8.67	7.54	6.04	JR21WCCA-8
—	21	8	27	10	HR1010-ND	8.67	7.54	6.04	JR21WCCA-10
—	21	8	27	12	HR1011-ND	8.67	7.54	6.04	JR21WCCA-12
—	21	8	27	14	HR1012-ND	8.67	7.54	6.04	JR21WCCA-14
—	21	8	27	16	HR1013-ND	8.67	7.54	6.04	JR21WCCA-16
—	25	8.5	31	8	HR1014-ND	8.67	7.54	6.04	JR25WCCA-8
—	25	8.5	31	10	HR1015-ND	8.67	7.54	6.04	JR25WCCA-10
—	25	8.5	31	12	HR1016-ND	8.67	7.54	6.04	JR25WCCA-12
—	25	8.5	31	14	HR1017-ND	8.67	7.54	6.04	JR25WCCA-14
—	25	8.5	31	16	HR1018-ND	8.67	7.54	6.04	JR25WCCA-16
—	25	8.5	31	18	HR1019-ND	8.67	7.54	6.04	JR25WCCA-18
Tools									
Manual Crimping Tool AWG 16					H9920-ND	650.00/1			JRC-TC-11
Manual Crimping Tool AWG 18-20					H9921-ND	650.00/1			JRC-TC-12
Extraction Tool					H9922-ND	6.67/1			JRC-TP

Description	Digi-Key Part No.	Loose Piece Pricing 100	Hirose Part No.	Cut Tape* Pricing 100	500	1,000	Tape & Reel† Pricing 8,000	Hirose Part No.
Contacts - Male - Crimp Type, Silver Plating								
16-20AWG	HR1032-ND§	30.55	JRC-PC-112	30.55	110.50	175.50	166.00/M	JRC-PC-212
20-24AWG	HR1028-ND‡	24.44	JRC-PC2-112	24.44	88.40	140.40	133.00/M	JRC-PC2-212
24-28AWG	HR1029-ND‡	24.44	JRC-PC2-122	24.44	88.40	140.40	133.00/M	JRC-PC2-222
Contacts - Female - Crimp Type, Silver Plating								
16-20AWG	HR1033-ND§	30.55	JRC-SC-112	16.13	58.05	90.30	82.00/M	JRC-SC-212
20-24AWG	HR1030-ND‡	24.44	JRC-SC2-112	24.44	88.40	140.40	133.00/M	JRC-SC2-212
24-28AWG	HR1031-ND‡	24.44	JRC-SC2-122	24.44	88.40	140.40	133.00/M	JRC-SC2-222

* For Cut Tape, add CT to the Digi-Key Part No. (HR1029CT-ND).
† For Tape and Reel add TR to the Digi-Key Part No. (HR1029TR-ND).
§ Uses 16-20 AWG Contact
‡ Uses 20-24 AWG or 24-28 AWG Contact

(Continued)

NEW! LF Series Miniature Waterproof Shielded Connectors

Features: • Shield cable is clamped by ground metal and connected with shell easily. • Mating waterproof structure (IP67 compliant). • Simplified assembly procedure without using small screws. Small and robust bayonet lock connector. • 3-position type connector is compliant with international safety standard of 5A.
Applications: • Measuring instrument, machine tool, sensor, security camera, base transmission station, medical equipment, and others.
Characteristics: • **Current Rating (Amps):** 2, 5 • **Shell Size:** 7 (10.3mm), 10 (12.8mm) • **Contact Mating Area Plating:** Gold • **Operating Temperature Range:** -25℃ ~ 125℃ • **Termination Style:** Soldering

Jack

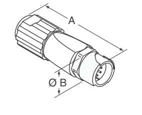

Plug

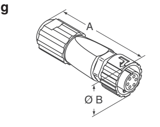

Receptacle

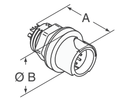

Con-tacts	Description	Dim. A mm	Dim. B mm	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
				LF07 Series				
3	Jack, Male Contact	36.3	11.5	HR537-ND	13.52	12.51	11.23	LF07WBJ-3P
3	Jack, Female Contact	36.3	11.5	HR549-ND	13.52	12.51	11.23	LF07WBJ-3S
6	Jack, Male Contact	36.3	11.5	HR539-ND	13.36	12.36	11.09	LF07WBJ-6P
6	Jack, Female Contact	36.3	11.5	HR540-ND	13.68	12.66	11.36	LF07WBJ-6S
3	Plug, Male Contact	35.3	12.3	HR541-ND	12.84	12.08	10.95	LF07WBP-3P
3	Plug, Female Contact	35.3	12.3	HR542-ND	12.84	12.08	10.95	LF07WBP-3S
6	Plug, Male Contact	35.3	12.3	HR543-ND	14.64	13.55	12.16	LF07WBP-6P
6	Plug, Female Contact	35.3	12.3	HR544-ND	14.96	13.84	12.42	LF07WBP-6S
3	Receptacle, Male Contact	15.15	13	HR545-ND	8.89	7.53	6.33	LF07WBR-3P
3	Receptacle, Female Contact	15.15	13	HR546-ND	8.89	7.53	6.33	LF07WBR-3S
6	Receptacle, Male Contact	15.05	13	HR547-ND	8.68	7.35	6.18	LF07WBR-6P
6	Receptacle, Female Contact	15.25	13	HR548-ND	8.05	7.00	6.30	LF07WBR-6S
				Tools				
	Jig Assembly for LF07 Plug			HR550-ND		218.12/1		LF07BP-T01
	Jig Assembly for LF07 Jack			HR551-ND		218.12/1		LF07BJ-T01
				LF10 Series				
4	Plug, Male Contact	41.8	14.8	HR552-ND	14.06	13.24	12.00	LF10WBP-4P
4	Plug, Female Contact	41.8	14.8	HR553-ND	14.06	13.24	12.00	LF10WBP-4S
12	Plug, Male Contact	41.8	14.8	HR554-ND	15.42	14.52	13.16	LF10WBP-12P
12	Plug, Female Contact	41.8	14.8	HR555-ND	15.95	15.01	13.61	LF10WBP-12S
4	Receptacle, Male Contact	19.05	15.3	HR556-ND	9.15	7.96	7.17	LF10WBR-4P
4	Receptacle, Female Contact	19.05	15.3	HR557-ND	9.15	7.96	7.17	LF10WBR-4S
12	Receptacle, Male Contact	17.25	15.3	HR558-ND	11.16	9.70	8.73	LF10WBR-12P
12	Receptacle, Female Contact	17.25	15.3	HR559-ND	10.34	9.57	8.59	LF10WBR-12S
4	Jack, Male Contact	42.4	13.8	HR560-ND	14.96	13.84	12.42	LF10WBJ-4P
4	Jack, Female Contact	42.4	13.8	HR561-ND	14.96	13.84	12.42	LF10WBJ-4S
12	Jack, Male Contact	42.4	13.8	HR562-ND	14.06	13.24	12.00	LF10WBJ-12P
12	Jack, Female Contact	42.4	13.8	HR563-ND	14.60	13.75	12.46	LF10WBJ-12S
				Tools				
	Hand Cable Clamp Crimp...........................			H9910-ND	558.60	535.50	514.50	LF-TC-01
	Jig Assembly for LF10 Plug........................			H9911-ND	218.12	209.10	200.90	LF10BP-T01
	Jig Assembly for LF10 Jack........................			H9912-ND	218.12	209.10	200.90	LF10BJ-T01

SR30 Series 10mm Miniature Microphone Connectors

Features: Standard applicable cable size is the outer diameter 4.2. Male pin: brass + gold plated or silver plated; Female pin: copper alloy + gold plated or silver plated. **Specifications:** • Rated Voltage: AC100V, DC140V • Current Rating: 1A • Insulation Resistance: 200MΩ minimum at DC100V • Contact Resistance: 10mΩ maximum at DC1A.

Plug

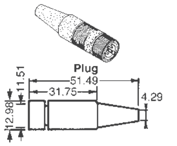

Receptacle

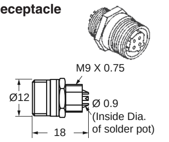

Jack

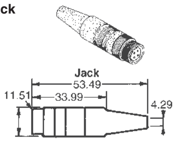

Con-tacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
4 6 7	Plug with Pin Insert	HR500-ND HR501-ND HR510-ND	10.86 10.86 11.00	9.44 10.05 10.18	7.56 8.42 8.53	SR30-10PE-4P SR30-10PE-6P SR30-10PF-7P
4 6 7	Receptacle with Socket Insert	HR503-ND HR504-ND HR505-ND	8.74 11.34 13.41	7.60 9.86 12.63	6.08 7.89 11.05	SR30-10R-4S SR30-10R-6S SR30-10R-7S
4 6 7	Jack with Socket Insert	HR506-ND HR507-ND HR508-ND	14.38 12.96 13.38	13.31 11.99 12.38	11.15 10.05 10.37	SR30-10JE-4S SR30-10JE-6S SR30-10JF-7S
—	Cable Clamp for SR30 Series	HR509-ND	.70	.49	.33	SR30-P

SR38 Series Microminiature High-Performance

Plug

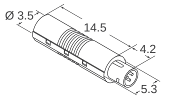

Receptacle

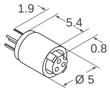

Features: Microminiature and high density allows space-saving packaging with the ø5.3 mm standard dia. (excluding protrusions) body. Highly reliable against external force such as vibration due to the simple locking mechanism guards. Easy to wire and mount plugs: fold-up type, requiring no special tool. Receptacles: circuit board dip type. **Applications:** video equipment, acoustic equipment, measuring instruments, and other electronic equipment.

Contacts	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
3	Plug	HR796-ND	12.75	12.00	10.88	SR38-4P-3P
3	Receptacle	HR797-ND	15.78	14.85	13.46	SR38-4R-3S

HR22 Series

High-Performance Compact Circular

The HR22 Series are 20-pin compact circular connectors developed as an interface between machine tool motors and operation panels. With a screw coupling type locking mechanism to prevent unlocking due to motor vibration.

Features: • Anti-Loosening Locking Mechanism. The locking mechanism has an anti-loosening spring in a screw coupling. **Two Types of Termination:** Crimp and Solder Easy Receptacle Mounting. A receptacle may be mounted quickly on a panel by tightening a nut. • **Pin allocation and Major Functions:** • **Withstand voltage:** AC300V for 1 minimum. • **Current capacity:** 2A • **Insulation resistance:** 1000MΩ or more at DC100V. • **Contact resistance:** 20mΩ or less. • **Solder pot inner diameter:** 0.8

Fig. 1

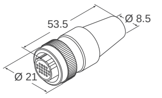

Fig. 2

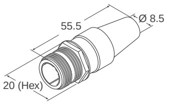

Fig.	No. of Pins	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	20	Plug - Female Crimp	HR176-ND	16.20	15.66	14.58	HR22-12TPD-20SC
		Plug - Male Crimp	HR177-ND	16.20	15.66	14.58	HR22-12TPD-20PC
		Plug - Female Solder	HR179-ND	39.20	37.24	35.70	HR22-12TPD-20S
		Plug - Male Solder	HR180-ND	18.75	18.13	16.88	HR22-12TPD-20P
2	20	Jack - Male Crimp	HR181-ND	16.50	15.95	14.85	HR22-12TJD-20PC
		Jack - Male Solder	HR182-ND	18.30	17.69	16.47	HR22-12TJD-20P
		Jack - Female Solder	HR183-ND	38.36	36.45	34.94	HR22-12TJD-20S
Contact Male Pin AWG 24-28 – Crimp			HR184-ND	.55	.35	.23	HR22-PC-122
Contact Female Pin AWG 24-28 – Crimp			HR185-ND	.55	.35	.23	HR22-SC-122
			Tools				
Assembly Wiring Jig for HR22 Series			H9959-ND		186.20/1		HR22-12P-T01
Manual Crimping Tool for HR22 Series - AWG 24-28			H9960-ND		962.00/1		HR22-TA2428HC
Cable Crimping Tool - Wire Dim. 8.5 mm			H9989-ND		305.90/1		HR10A-TC-04

HR212 Series Microminiature High-Performance

Fig. 1

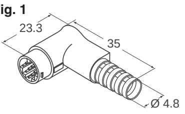

Fig. 2

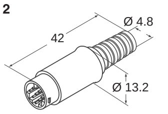

Fig. 3

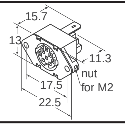

Fig. 4

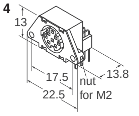

Fig. 5

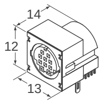

Fig. 6

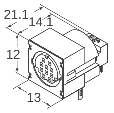

No. of Pins	Plating	Color	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
			Fig. 1 Plug, Right Angle, Solder Type				
8	Tin	Black	HR454-ND	8.35	7.26	6.54	HR212-10LP-8P
8	Tin	Beige	HR455-ND	8.35	7.26	6.54	HR212-10LP-8P(01)
8	Gold	Black	HR456-ND	8.69	7.56	6.81	HR212-10LP-8P(02)
8	Gold	Beige	HR457-ND	8.69	7.56	6.81	HR212-10LP-8P(03)
			Fig. 1 Plug, Right Angle, Crimp Type				
5	—	Black	HR458-ND	8.11	6.87	5.78	HR212-10LP-5PC
8	—	Black	HR459-ND	8.11	6.87	5.78	HR212-10LP-8PC
			Fig. 2 Plug, Straight, Solder Type				
8	Tin	Black	HR460-ND	8.19	7.12	6.41	HR212-10P-8P
8	Tin	Beige	HR461-ND	8.19	7.12	6.41	HR212-10P-8P(01)
8	Gold	Black	HR462-ND	8.51	7.40	6.66	HR212-10P-8P(02)
8	Gold	Beige	HR463-ND	8.51	7.40	6.66	HR212-10P-8P(03)
			Fig. 2 Plug, Straight, Crimp Type				
5	—	Black	HR464-ND	7.93	6.71	5.65	HR212-10P-5C
10	—	Black	HR467-ND	8.68	7.35	6.18	HR212-10P-10PC
10	—	Beige	HR468-ND	8.68	7.35	6.18	HR212-10P-10PC(01)
			Fig. 3 Receptacle, Panel Mount, Crimp Type				
8	—	Black	HR469-ND	3.16	2.62	2.18	HR212-10R-8SC
8	—	Beige	HR470-ND	3.16	2.62	2.18	HR212-10R-8SC(01)
			Fig. 3 Receptacle, Vertical, PCB Type				
8	Tin	Black	HR471-ND	5.05	4.18	3.48	HR212-10R-8SD(02)
8	Gold	Beige	HR472-ND	5.68	4.71	3.92	HR212-10R-8SD(01)
			Fig. 4 Receptacle, Right Angle, PCB Type				
5	Tin	Black	HR473-ND	4.81	3.99	3.32	HR212-10R-5SDL(02)
8	Tin	Black	HR474-ND	4.96	4.11	3.42	HR212-10R-8SDL(02)
8	Gold	Black	HR475-ND	5.68	4.71	3.92	HR212-10R-8SDL(04)
8	Gold	Beige	HR476-ND	5.68	4.71	3.92	HR212-10R-8SDL(01)
			Fig. 5 Receptacle, Right Angle, PCB Type				
8	Tin	Black	HR477-ND	5.80	4.80	4.00	HR212-10RA-8SDL(03)
8	Gold	Beige	HR478-ND	6.32	5.24	4.36	HR212-10RA-8SDL(01)
8	Gold	Black	HR479-ND	6.53	5.40	4.50	HR212-10RA-8SDL(02)
			Fig. 6 Receptacle, Right Angle, PCB Type				
10	Gold	Black	HR480-ND	9.52	8.28	7.46	HR212-10RC-10SDL(02)

(Continued)

HR25 Series

World's Smallest Round Type Multiple Contact Connectors

The HR25 is the world's smallest high-density round type connector. It was developed using Hirose Electric's long experience with miniaturization technology in answer to the continuing need for the ever greater miniaturization and high-density construction of a wide variety of electronic equipment. The voltage used should be less than 30VAC or 42VDC. Wire AWG30.

Applications: • CCD cameras, measuring instruments, wide variety of sensors, mobile radio, medical equipment. **Material:** • Insulation: PPS resin, black • Contacts: Phosphor bronze, Gold and partial gold plating • Shell: Brass and zinc alloy, Nickel plating **Ratings:** • Current capacity 1A • Insulation resistance 1000MΩ or greater • Contact resistance 30mΩ • Solder pot inside diameter 0.5mm

Fig. 1

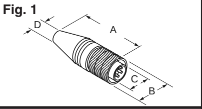

Fig. 2

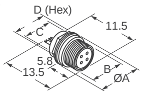

Fig. 3

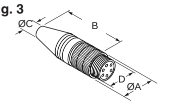

Fig. 4

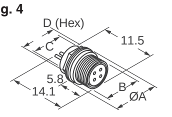

Fig. 5

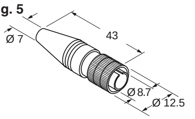

Fig. 6

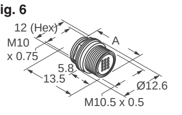

Fig. 7

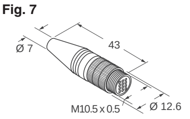

Fig. 8

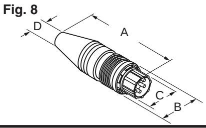

Fig. 9

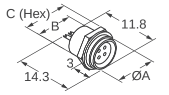

Fig. 10

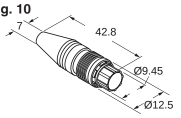

Fig. 11

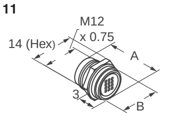

Fig. 12

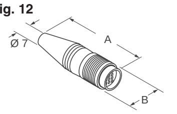

# of Cont.	Shell Size	Dimensions (mm)				Digi-Key Part No.	Price Each				Hirose Part No.
		A	B	C	D		1	10	50	100	
Fig. 1 Plugs Screw Lock - Male Solder Type											
4	7	35	10.5	6.7	5	HR700-ND	16.22	15.27	13.84	13.36	HR25-7TP-4P
6	7	35	10.5	6.7	5	HR701-ND	15.30	14.79	13.77	13.26	HR25-7TP-6P
8	7	35	10.5	6.7	5	HR702-ND	16.20	15.66	14.58	14.04	HR25-7TP-8P
12	9	43	12.5	8.7	7	HR703-ND	27.15	26.25	24.44	23.53	HR25-9TP-12P
16	9	43	12.5	8.7	7	HR704-ND	35.42	33.65	32.26	31.63	HR25-9TP-16P
20	9	43	12.5	8.7	7	HR705-ND	31.20	30.16	28.08	27.04	HR25-9TP-20P
Fig. 1 Plugs Screw Lock - Female Solder Type											
4	7	35	10.5	6.7	5	HR706-ND	15.95	15.01	13.61	13.14	HR25-7TP-4S
6	7	35	10.5	6.7	5	HR707-ND	16.49	15.52	14.07	13.58	HR25-7TP-6S
8	7	35	10.5	6.7	5	HR708-ND	15.00	14.50	13.50	13.00	HR25-7TP-8S
12	9	43	12.5	8.7	7	HR709-ND	21.45	20.74	19.31	18.59	HR25-9TP-12S
16	9	43	12.5	8.7	7	HR710-ND	22.35	21.61	20.12	19.37	HR25-9TP-16S
20	9	43	12.5	8.7	7	HR711-ND	23.10	22.33	20.79	20.02	HR25-9TP-20S
Fig. 2 Receptacles Screw Lock - Male Solder Cup Type											
4	7	10.6	M8.5x0.5	M8x0.5	10	HR712-ND	13.68	12.66	11.36	10.61	HR25-7TR-4P
6	7	10.6	M8.5x0.5	M8x0.5	10	HR713-ND	13.11	12.34	11.18	10.80	HR25-7TR-6P
8	7	10.6	M8.5x0.5	M8x0.5	10	HR714-ND	13.79	12.98	11.76	11.36	HR25-7TR-8P
12	9	12.6	M10.5x0.5	M10x0.75	12	HR715-ND	16.95	16.39	15.26	14.69	HR25-9TR-12P
16	9	12.6	M10.5x0.5	M10x0.75	12	HR716-ND	18.90	18.27	17.01	16.38	HR25-9TR-16P
20	9	12.6	M10.5x0.5	M10x0.75	12	HR717-ND	20.88	20.19	18.80	18.10	HR25-9TR-20P
Fig. 2 Receptacles Screw Lock - Female Solder Cup Type											
4	7	10.6	M8.5x0.5	M8x0.5	10	HR718-ND	13.78	12.75	11.44	10.68	HR25-7TR-4S
6	7	10.6	M8.5x0.5	M8x0.5	10	HR719-ND	14.00	12.95	11.62	10.85	HR25-7TR-6S
8	7	10.6	M8.5x0.5	M8x0.5	10	HR720-ND	13.94	12.90	11.58	10.81	HR25-7TR-8S
12	9	12.6	M10.5x0.5	M10x0.75	12	HR721-ND	14.96	13.84	12.42	11.60	HR25-9TR-12S
16	9	12.6	M10.5x0.5	M10x0.75	12	HR722-ND	13.65	12.85	11.65	11.25	HR25-9TR-16S
20	9	12.6	M10.5x0.5	M10x0.75	12	HR723-ND	15.08	14.20	12.87	12.42	HR25-9TR-20S
Fig. 3 Jacks Screw Lock - Male Solder Type											
4	7	10.6	35	5	M8.5x0.5	HR724-ND	16.22	15.27	13.84	13.36	HR25-7TJ-4P
6	7	10.6	35	5	M8.5x0.5	HR725-ND	15.30	14.79	13.77	13.26	HR25-7TJ-6P
8	7	10.6	35	5	M8.5x0.5	HR726-ND	16.20	15.66	14.58	14.04	HR25-7TJ-8P
12	9	12.6	43	7	M10.5x0.5	HR727-ND	27.15	26.25	24.44	23.53	HR25-9TJ-12P
16	9	12.6	43	7	M10.5x0.5	HR728-ND	29.25	28.28	26.33	25.35	HR25-9TJ-16P
20	9	12.6	43	7	M10.5x0.5	HR729-ND	31.20	30.16	28.08	27.04	HR25-9TJ-20P
Fig. 3 Jacks Screw Lock - Female Solder Type											
4	7	10.6	35	5	M8.5x0.5	HR730-ND	15.95	15.01	13.61	13.14	HR25-7TJ-4S
6	7	10.6	35	5	M8.5x0.5	HR731-ND	16.49	15.52	14.07	13.58	HR25-7TJ-6S
8	7	10.6	35	5	M8.5x0.5	HR732-ND	15.00	14.50	13.50	13.00	HR25-7TJ-8S
12	9	12.6	43	7	M10.5x0.5	HR733-ND	21.45	20.74	19.31	18.59	HR25-9TJ-12S
16	9	12.6	43	7	M10.5x0.5	HR734-ND	23.04	22.28	20.74	19.97	HR25-9TJ-16S
20	9	12.6	43	7	M10.5x0.5	HR735-ND	23.87	23.07	21.48	20.69	HR25-9TJ-20S
Fig. 4 Receptacles Screw Lock - Male PCB Type											
4	7	10.6	M8.5x0.5	M8x0.5	10	HR736-ND	13.68	12.66	11.36	10.61	HR25-7TR-4PA
6	7	10.6	M8.5x0.5	M8x0.5	10	HR737-ND	14.96	13.84	12.42	11.60	HR25-7TR-6PA
8	7	10.6	M8.5x0.5	M8x0.5	10	HR738-ND	13.79	12.98	11.76	11.36	HR25-7TR-8PA
12	9	12.6	M10.5x0.5	M10x0.75	12	HR739-ND	17.51	16.93	15.76	15.18	HR25-9TR-12PA
16	9	12.6	M10.5x0.5	M10x0.75	12	HR740-ND	18.90	18.27	17.01	16.38	HR25-9TR-16PA
20	9	12.6	M10.5x0.5	M10x0.75	12	HR741-ND	21.00	20.30	18.90	18.20	HR25-9TR-20PA
Fig. 4 Receptacles Screw Lock - Female PCB Type											
4	7	10.6	M8.5x0.5	M8x0.5	10	HR742-ND	13.78	12.75	11.44	10.68	HR25-7TR-4SA
6	7	10.6	M8.5x0.5	M8x0.5	10	HR743-ND	14.00	12.95	11.62	10.85	HR25-7TR-6SA
8	7	10.6	M8.5x0.5	M8x0.5	10	HR744-ND	14.64	13.55	12.16	11.35	HR25-7TR-8SA
12	9	12.6	M10.5x0.5	M10x0.75	12	HR745-ND	14.96	13.84	12.42	11.60	HR25-9TR-12SA
16	9	12.6	M10.5x0.5	M10x0.75	12	HR746-ND	13.65	12.85	11.65	11.25	HR25-9TR-16SA
20	9	12.6	M10.5x0.5	M10x0.75	12	HR747-ND	14.60	13.75	12.46	12.03	HR25-9TR-20SA
Fig. 5 Plugs Screw Lock - Male Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR748-ND	20.58	19.90	18.53	17.84	HR25-9TP-12PC
16	9	—	—	—	—	HR749-ND	20.90	20.20	18.81	18.11	HR25-9TP-16PC
20	9	—	—	—	—	HR750-ND	21.20	20.49	19.08	18.37	HR25-9TP-20PC
Fig. 5 Plugs Screw Lock - Female Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR751-ND	20.58	19.90	18.53	17.84	HR25-9TP-12SC
16	9	—	—	—	—	HR752-ND	20.90	20.20	18.81	18.11	HR25-9TP-16SC
20	9	—	—	—	—	HR753-ND	21.20	20.49	19.08	18.37	HR25-9TP-20SC
Fig. 6 Receptacles Screw Lock - Male Crimp Type (Contacts sold separately)											
12	9	13	—	—	—	HR754-ND	12.88	11.92	10.70	9.99	HR25-9TR-12PC
16	9	13	—	—	—	HR755-ND	13.78	12.75	11.44	10.68	HR25-9TR-16PC
20	9	13	—	—	—	HR756-ND	13.68	12.66	11.36	10.61	HR25-9TR-20PC
Fig. 6 Receptacles Screw Lock - Female Crimp Type (Contacts sold separately)											
12	9	11.5	—	—	—	HR757-ND	12.88	11.92	10.70	9.99	HR25-9TR-12SC
16	9	11.5	—	—	—	HR758-ND	13.78	12.75	11.44	10.68	HR25-9TR-16SC
20	9	11.5	—	—	—	HR759-ND	13.68	12.66	11.36	10.61	HR25-9TR-20SC
Fig. 7 Jacks Screw Lock - Male Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR760-ND	20.58	19.90	18.53	17.84	HR25-9TJ-12PC
16	9	—	—	—	—	HR761-ND	20.90	20.20	18.81	18.11	HR25-9TJ-16PC
20	9	—	—	—	—	HR762-ND	20.55	19.87	18.50	17.81	HR25-9TJ-20PC
Fig. 7 Jacks Screw Lock - Female Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR763-ND	20.58	19.90	18.53	17.84	HR25-9TJ-12SC
16	9	—	—	—	—	HR764-ND	20.90	20.20	18.81	18.11	HR25-9TJ-16SC
20	9	—	—	—	—	HR765-ND	20.55	19.87	18.50	17.81	HR25-9TJ-20SC
Fig. 8 Plugs Push Pull Lock - Male Solder Type											
4	7	34.8	10.5	7.45	5	HR766-ND	18.45	17.84	16.61	15.99	HR25-7P-4P
6	7	34.8	10.5	7.45	5	HR767-ND	19.50	18.85	17.55	16.90	HR25-7P-6P
8	7	34.8	10.5	7.45	5	HR768-ND	20.40	19.72	18.36	17.68	HR25-7P-8P
12	9	42.8	12.5	9.45	7	HR769-ND	29.40	28.42	26.46	25.48	HR25-9P-12P
16	9	42.8	12.5	9.45	7	HR770-ND	31.50	30.45	28.35	27.30	HR25-9P-16P
20	9	42.8	12.5	9.45	7	HR771-ND	33.60	32.48	30.24	29.12	HR25-9P-20P
Fig. 8 Plugs Push Pull Lock - Female Solder Type											
4	7	34.8	10.5	7.45	5	HR772-ND	18.15	17.55	16.34	15.73	HR25-7P-4S
6	7	34.8	10.5	7.45	5	HR773-ND	18.60	17.98	16.74	16.12	HR25-7P-6S
8	7	34.8	10.5	7.45	5	HR774-ND	19.05	18.42	17.15	16.51	HR25-7P-8S
12	9	42.8	12.5	9.45	7	HR775-ND	24.48	23.67	22.04	21.22	HR25-9P-12S
16	9	42.8	12.5	9.45	7	HR776-ND	25.40	24.55	22.86	22.01	HR25-9P-16S
20	9	42.8	12.5	9.45	7	HR777-ND	25.35	24.51	22.82	21.97	HR25-9P-20S
Fig. 9 Receptacles Push Pull Lock- Male Solder Cup Type											
4	7	11	M10x0.75	12	—	HR778-ND	14.64	13.55	12.16	11.35	HR25-7R-4P
6	7	11	M10x0.75	12	—	HR779-ND	13.52	12.72	11.53	11.13	HR25-7R-6P
8	7	11	M10x0.75	12	—	HR780-ND	15.08	14.20	12.87	12.42	HR25-7R-8P
12	9	13	M13x0.75	14	—	HR781-ND	19.50	18.85	17.55	16.90	HR25-9R-12P
16	9	13	M13x0.75	14	—	HR782-ND	22.13	21.39	19.92	19.18	HR25-9R-16P
20	9	13	M13x0.75	14	—	HR783-ND	23.55	22.77	21.20	20.41	HR25-9R-20P
Fig. 9 Receptacles Push Pull Lock - Female Solder Cup Type											
4	7	11	M10x0.75	12	—	HR784-ND	14.16	13.10	11.76	10.98	HR25-7R-4S
6	7	11	M10x0.75	12	—	HR785-ND	14.80	13.69	12.29	11.47	HR25-7R-6S
8	7	11	M10x0.75	12	—	HR786-ND	13.11	12.34	11.18	10.80	HR25-7R-8S
12	9	13	M13x0.75	14	—	HR787-ND	15.56	14.64	13.27	12.81	HR25-9R-12S
16	9	13	M13x0.75	14	—	HR788-ND	16.49	15.52	14.07	13.58	HR25-9R-16S
20	9	13	M13x0.75	14	—	HR789-ND	15.45	14.94	13.91	13.39	HR25-9R-20S
Fig. 10 Plugs Push Pull Lock - Male Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR790-ND	22.20	21.46	19.98	19.24	HR25-9P-12PC
16	9	—	—	—	—	HR791-ND	23.25	22.48	20.93	20.15	HR25-9P-16PC
20	9	—	—	—	—	HR792-ND	23.55	22.77	21.20	20.41	HR25-9P-20PC
Fig. 10 Plugs Push Pull Lock - Female Crimp Type (Contacts sold separately)											
12	9	—	—	—	—	HR793-ND	22.94	22.18	20.65	19.88	HR25-9P-12SC
16	9	—	—	—	—	HR794-ND	22.50	21.75	20.25	19.50	HR25-9P-16SC
20	9	—	—	—	—	HR795-ND	23.55	22.77	21.20	20.41	HR25-9P-20SC
Fig. 11 Recept. Push Pull Lock - Male Crimp Type (Contacts sold separately)											
12	9	13.8	—	—	—	HR520-ND	13.79	12.98	11.76	11.36	HR25-9R-12PC
16	9	13.8	—	—	—	HR521-ND	14.20	13.36	12.11	11.69	HR25-9R-16PC
20	9	13.8	—	—	—	HR522-ND	14.47	13.62	12.34	11.92	HR25-9R-20PC
Fig. 11 Recept. Push Pull Lock - Male Solder Type											
4	7	11.8	11	—	—	HR412-ND	14.64	13.55	12.16	11.35	HR25-7R-4PA
6	7	11.8	11	—	—	HR414-ND	13.52	12.72	11.53	11.13	HR25-7R-6PA
8	7	11.8	11	—	—	HR416-ND	14.60	13.75	12.46	12.03	HR25-7R-8PA
12	9	11.8	11	—	—	HR424-ND	19.50	18.85	17.55	16.90	HR25-9R-12PA
16	9	11.8	11	—	—	HR426-ND	21.45	20.74	19.31	18.59	HR25-9R-16PA
20	9	11.8	11	—	—	HR428-ND	23.55	22.77	21.20	20.41	HR25-9R-20PA
Fig. 11 Recept. Push Pull Lock - Female Crimp Type (Contacts sold separately)											
12	9	11.8	13	—	—	HR523-ND	13.79	12.98	11.76	11.36	HR25-9R-12SC
16	9	11.8	13	—	—	HR524-ND	14.20	13.36	12.11	11.69	HR25-9R-16SC
20	9	11.8	13	—	—	HR525-ND	14.47	13.62	12.34	11.92	HR25-9R-20SC
Fig. 11 Recept. Push Pull Lock - Female Solder Type											
4	7	11.8	11	—	—	HR413-ND	14.16	13.10	11.76	10.98	HR25-7R-4SA
6	7	11.8	11	—	—	HR415-ND	14.80	13.69	12.29	11.47	HR25-7R-6SA
8	7	11.8	11	—	—	HR417-ND	13.11	12.34	11.18	10.80	HR25-7R-8SA
12	9	11.8	13	—	—	HR425-ND	15.56	14.64	13.27	12.81	HR25-9R-12SA
16	9	11.8	13	—	—	HR427-ND	16.49	15.52	14.07	13.58	HR25-9R-16SA
20	9	11.8	13	—	—	HR429-ND	15.45	14.94	13.91	13.39	HR25-9R-20SA
Fig. 12 Jacks Push Pull Lock - Male Crimp Type (Contacts sold separately)											
12	9	43.8	13.8	—	—	HR526-ND	22.94	22.18	20.65	19.88	HR25-9J-12PC
16	9	43.8	13.8	—	—	HR527-ND	23.25	22.48	20.93	20.15	HR25-9J-16PC
20	9	43.8	13.8	—	—	HR528-ND	23.55	22.77	21.20	20.41	HR25-9J-20PC
Fig. 12 Jacks Push Pull Lock - Male Solder Type											
4	7	35.8	11.8	—	—	HR406-ND	18.45	17.84	16.61	15.99	HR25-7J-4P
6	7	35.8	11.8	—	—	HR408-ND	19.50	18.85	17.55	16.90	HR25-7J-6P
8	7	35.8	11.8	—	—	HR410-ND	20.40	19.72	18.36	17.68	HR25-7J-8P
12	9	43.8	13.8	—	—	HR418-ND	29.40	28.42	26.46	25.48	HR24-9J-12P
16	9	43.8	13.8	—	—	HR420-ND	31.50	30.45	28.35	27.30	HR25-9J-16P
20	9	43.8	13.8	—	—	HR422-ND	33.60	32.48	30.24	29.12	HR25-9J-20P
Fig. 12 Jacks Push Pull Lock - Female Crimp Type (Contacts sold separately)											
12	9	43.8	13.8	—	—	HR529-ND	22.94	22.18	20.65	19.88	HR25-9J-12SC
16	9	43.8	13.8	—	—	HR530-ND	23.25	22.48	20.93	20.15	HR25-9J-16SC
20	9	43.8	13.8	—	—	HR531-ND	23.55	22.77	21.20	20.41	HR25-9J-20SC
Fig. 12 Jacks Push Pull Lock - Female Solder Type											
4	7	35.8	11.8	—	—	HR407-ND	18.15	17.55	16.34	15.73	HR25-7J-4S
6	7	35.8	11.8	—	—	HR409-ND	18.60	17.98	16.74	16.12	HR25-7J-6S
8	7	35.8	11.8	—	—	HR411-ND	19.05	18.42	17.15	16.51	HR25-7J-8S
12	9	43.8	13.8	—	—	HR419-ND	23.70	22.91	21.33	20.54	HR25-9J-12S
16	9	43.8	13.8	—	—	HR421-ND	24.60	23.78	22.14	21.32	HR25-9J-16S
20	9	43.8	13.8	—	—	HR423-ND	25.35	24.51	22.82	21.97	HR25-9J-20S

Description	Digi-Key Part No.	*Loose Piece* Price Each 100	Hirose Part No.	*Cut Tape** Price Each			*Tape & Reel †* Pricing 10,000	Hirose Part No.
				1	10	50		
Crimp Style Contacts - Male								
30-32	HR532-ND	.20	HR25-PC-111	.47	.30	.20	84.00/M	HR25-PC-211
Crimp Style Contacts - Female								
30-32	HR536-ND	.20	HR25-5C-111	.47	.30	.20	84.00/M	HR25-5C-211
Tool for HR25 Series								
Manual Crimp Tool (Contact)			H9975-ND		1274.00 /1			HR25-TA3032HC
Manual Crimp Tool (Ferrule)			H9974-ND		332.50 /1			HR10A-TC-02

* For Cut Tape, add CT to the Digi-Key Part No. (HR532CT-ND).
† For Tape and Reel add TR to the Digi-Key Part No. (HR532TR-ND).

(Continued)

RP13A Series

Push-Pull Lock Connectors

Performance:

Withstanding Voltage: AC 300 minimum
Current Rating: 2A (AWG #24)
Insulation: 1000MΩ maximum (DC250V)
Contact: 15mΩ minimum (DC 1A)

Features: Single motion push-pull locking mechanism provides improved quick inserting/extracting capability. Multi-slot key mating guide prevents mis-insertion. Outer shell, made of strong glass fiber polycarbonate resin, is lightweight yet rigid. As the cable connection method, crimping is used for plug, and crimping and PCB dip for receptacle.

Fig. 1

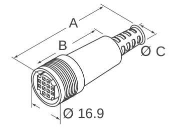

Fig. 2

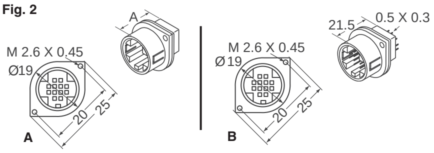

Fig. 3

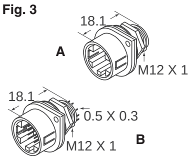

Fig. 4

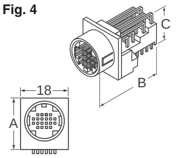

Fig. 5

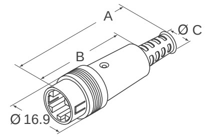

# of Pins	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
Fig. 1 - Plug with Female Terminal – Crimp								
13	47.2	32	6.1	HR242-ND	6.61	5.48	4.56	RP13A-12PA-13SC
13	47.2	32	5.7	HR243-ND	6.61	5.48	4.56	RP13A-12PB-13SC
13	52.2	37	6.1	HR244-ND	6.82	5.64	4.70	RP13A-12PD-13SC
13	47.2	32	6.4	HR245-ND	6.82	5.64	4.70	RP13A-12PE-13SC
13	52.2	37	7.1	HR246-ND	7.08	5.86	4.88	RP13A-12PK-13SC
13	52.2	37	8.1	HR247-ND	6.82	5.64	4.70	RP13A-12PS-13SC
15	52.2	37	6.1	HR248-ND	8.48	7.18	6.04	RP13A-12PD-15SC
15	52.2	37	7.1	HR249-ND	8.48	7.18	6.04	RP13A-12PK-15SC
15	52.2	37	7.5	HR250-ND	8.48	7.18	6.04	RP13A-12PP-15SC
20	52.2	37	6.1	HR251-ND	8.21	7.14	6.43	RP13A-12PD-20SC
20	52.2	37	7.5	HR252-ND	8.21	7.14	6.43	RP13A-12PG-20SC
20	47.2	32	6.4	HR253-ND	9.07	7.68	6.46	RP13A-12PH-20SC
20	52.2	37	7.1	HR254-ND	8.21	7.14	6.43	RP13A-12PK-20SC
20	47.2	32	4.7	HR255-ND	9.07	7.68	6.46	RP13A-12PO-20SC
20	52.2	37	8.1	HR256-ND	8.21	7.14	6.43	RP13A-12PS-20SC
Fig. 2A - Receptacle (Flange Type) with Male Terminal – Crimp								
13	18.1	—	—	HR257-ND	3.06	2.54	2.12	RP13A-12RA-13PC
15	18.1	—	—	HR258-ND	3.97	3.29	2.74	RP13A-12RA-15PC
20	16	—	—	HR259-ND	4.84	4.01	3.34	RP13A-12RA-20PC
Fig. 2B - Receptacle (Flange Type) with Male Terminal – Dip								
13	—	—	—	HR260-ND	5.71	4.73	3.94	RP13A-12RA-13PA
15	—	—	—	HR261-ND	6.53	5.53	4.65	RP13A-12RA-15PA
Fig. 3A - Receptacle (Jam Nut Fastening Type) with Male Terminal – Crimp								
13	—	—	—	HR262-ND	3.06	2.54	2.12	RP13A-12RB-13PC
Fig. 3B - Receptacle (Jam Nut Fastening Type) with Male Terminal – Dip								
13	—	—	—	HR263-ND	5.71	4.73	3.94	RP13A-12RB-13PA
Fig. 4 - Right Angle Dip with Male Terminal								
13	17.5	23.5	13	HR264-ND	8.74	7.60	6.84	RP13A-12RC-13PB
20	19.5	31.5	15	HR265-ND	10.12	8.80	7.92	RP13A-12RC-20PB
Fig. 5 - Jack with Male Terminal – Crimp								
13	49.1	34.6	6.1	HR266-ND	8.32	7.04	5.92	RP13A-12J-13PC
15	54.1	39.6	6.1	HR267-ND	12.76	11.81	10.60	RP13A-12JD-15PC
15	54.1	39.6	7.1	HR268-ND	12.76	11.81	10.60	RP13A-12JK-15PC
20	52.6	37.4	7.4	HR269-ND	12.76	11.81	10.60	RP13A-12JG-20PC
Pins For 13 and 15 Contacts								
Male - Gold Plating, 24-28 AWG				HR270-ND	.44	.31	.24	RP13-PC-121
Male - Silver Plating, 24-28 AWG				HR271-ND	.53	.33	.22	RP13-PC-122
Female - Gold Plating, 24-28 AWG				HR272-ND	.47	.33	.26	RP13A-SC-121
Female - Silver Plating, 24-28 AWG				HR273-ND	.50	.32	.21	RP13A-SC-122
Pins for Size 13 Superthick Wires								
Male - Silver Plating, 18-22 AWG				HR274-ND	.53	.33	.22	RP13-PC-112
Female - Silver Plating, 18-22 AWG				HR275-ND	.50	.32	.21	RP13A-SC-112
Pins for 20 Contact								
Male - Silver Plating 18-22 AWG				HR276-ND	.35	.22	.15	RP19-PC-112
Female - Silver Plating 18-22 AWG				HR277-ND	.35	.22	.15	RP19-SC-112
Male - Gold Plating 24-30 AWG				HR278-ND	.44	.31	.24	RP19-PC-121
Female - Gold Plating 24-30 AWG				HR279-ND	.50	.35	.27	RP19-SC-121
Male - Silver Plating 24-30 AWG				HR280-ND	.40	.25	.17	RP19-PC-122
Female - Silver Plating 24-30 AWG				HR281-ND	.38	.24	.16	RP19-SC-122

Description	Digi-Key Part No.	Price Each	Hirose Part No.
Tools			
Manual Crimping Tool for RP13 Series 18-22 AWG	H9973-ND	598.50	RP13-TC-11
Manual Crimping Tool for RP13 Series 24-28 AWG	H9972-ND	598.50	RP13-TC-12
Manual Crimping Tool for RP13A Series 18-22 AWG	H9971-ND	598.50	RP13A-TC-11
Manual Crimping Tool for RP13A Series 24-28 AWG	H9970-ND	598.50	RP13A-TC-12
Manual Crimping Tool for RP19 Series 18-22 AWG	H9969-ND	638.40	RP19-TC-11
Manual Crimping Tool for RP19 Series 24-30 AWG	H9968-ND	638.40	RP19-TC-12
Cable Crimping Tool for RP13A Series - Wire Dim. 7.3-8.3 mm	H9967-ND	715.00	RP13A-TC-01
Cable Crimping Tool for RP13A Series - Wire Dim. 7.5-8.6 mm	H9966-ND	715.00	RP13A-TC-02
Extractor - Male Term. RP13 Extractor - Female Term. RP13A	H9965-ND H9964-ND	7.80 4.35	RP13-PC-TP RP13A-SC-TP

RP17 Series

Push-Pull Lock Connectors

Contact Arrangement:

- **Withstanding Voltage:** AC 1000V for 1 minute
- **Current Capacity:** 5A (AWG18-22) Fits contact No. 2,11, 12 2A (AWG24-30) Fits contact #1, 3, 4, 5, 6, 7, 8, 9, 10
- **Insulation Resistance:** 1000MΩ minimum at DC500V
- **Contact Resistance:** 15mΩ maximum at DC1A
- **Applicable Wire:** AWG18-22 (Large barrel) AWG24-30 (Small barrel)

Features: One touch "push-pull lock" coupling mechanism assures easy and quick connection and disconnection. Use applicable cable • AWG18-22 (shielded outer diameter. 1.7mm under) to 3 pins among 12 pins and other applicable cable • AWG24-30 (shielded outer diameter. 1.2mm under) to be usable due to crimp terminal. Mating guide keys is multiple polarizing to be ensured specified position. Simple and slender appearance with internal installed cable clamp. External appearance is matte finish black color. Mating position mark is located with white color, assures easy and quick connection and disconnection.

Fig. 1

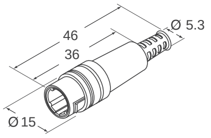

Fig. 2

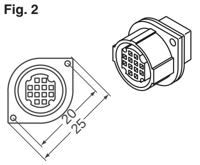

Fig. 3

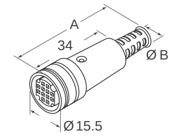

Fig.	No. of Pins	Description	Dim. mm A	B	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	12	Plug - Male Crimp Plug (ESD) Male Crimp	— —	— —	HR282-ND HR283-ND	6.29 6.61	5.21 5.48	4.34 4.56	RP17-13P-12PC RP17A-13P-12PC
2	12	Recept. - Female Crimp Recept. - Female Dip Recept. (ESD) Female Dip	— — —	— — —	HR284-ND HR285-ND HR286-ND	2.31 5.71 6.61	1.92 4.73 5.48	1.60 3.94 4.56	RP17-13R-12SC RP17-13RA-12SD RP17A-13RA-12SD
3	12	Jack - Female Crimp Jack - Female Crimp	44 49	5.3 5.1	HR287-ND HR288-ND	7.49 7.49	6.34 6.34	5.33 5.33	RP17-13J-12SC RP17-13JA-12SC
Contacts									
Male Pin AWG 18-22					HR289-ND	.41	.29	.23	RP17-PC-112
Male Pin AWG 24-30					HR290-ND	.41	.29	.23	RP17-PC-122
Female Pin AWG 18-22					HR291-ND	.41	.29	.23	RP17-SC-112
Female Pin AWG 24-30					HR292-ND	.41	.29	.23	RP17-SC-122
Tools									
Manual Crimping Tool for AWG 18-22					H9963-ND	598.50/1			RP17-TC-11
Manual Crimping Tool for AWG 24-30					H9962-ND	598.50/1			RP17-TC-12
Cable Crimping Tool					H9961-ND	332.50/1			RP17-TC-01

RP Series Plastic Connectors

12mm Connectors Panel Mount

Specifications:

- Operating Voltage: AC150V (6, 7 pin), AC250V (3 pin)
- Current Rating: 5A
- Contact Resistance: 5mΩ maximum at DC1A

Materials:

- Male Pin: Brass and silver plating
- Female Pin:
  Phosphor bronze and silver plating

RP1

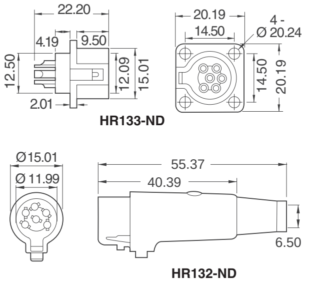

RP2

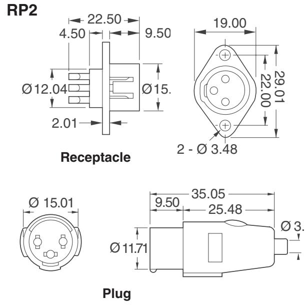

Contacts	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
RP1 Series, 12mm						
6	Receptacle with Pin Insert	HR133-ND	2.93	2.43	1.80	RPC1-12RB-6P
6	Plug with Socket Insert	HR132-ND	4.12	3.41	2.56	RPC1-12P-6S(03)
RP2 Series, 12mm						
3	Receptacle with Pin Insert	HR135-ND	1.89	1.57	1.16	RPC2-12RB-3P(01)
7	Receptacle with Pin Insert	HR137-ND	3.05	2.52	1.89	RPC2-12RB-7P(01)
3	Plug with Socket Insert	HR134-ND	3.57	2.96	2.22	RPC2-12P-3S
7	Plug with Socket Insert	HR136-ND	4.44	3.68	2.76	RPC2-12P-7S

EMERSON
Network Power

Plugs and Jacks

JOHNSON

Fig. 1

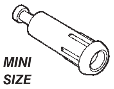

MINI SIZE

Fig. 2

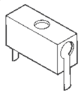

Fig. 3

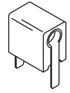

Fig. 4

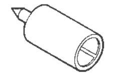

Fig. 5

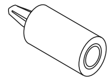

Fig. 6

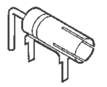

Fig. 7

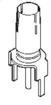

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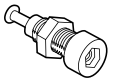

Fig. 9

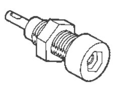

Fig. 10

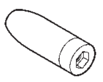

Fig. 11

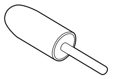

Fig. 12

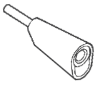

Fig. 13

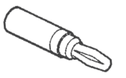

Fig. 14

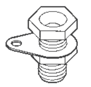

Fig. 15

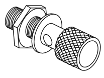

Fig. 16

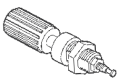

Fig. 17

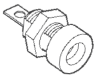

Fig. 18

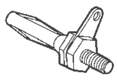

Fig. 19

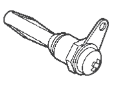

Fig. 20

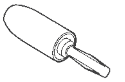

Fig. 21

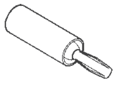

Fig. 22

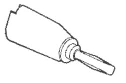

Fig.	Color	Digi-Key Part No.	Pricing 1	10	100	250	500	1,000	Johnson Part No.
Tip Jacks – for Standard Tip Plug: 2.03mm									
1	White	J330-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1041-001
	Red	J124-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1042-001
	Black	J125-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1043-001
	Green	J331-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1044-001
	Yellow	J333-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1047-001
	Blue	J126-ND	1.27	11.33	89.68	188.80	354.00	660.80	105-1050-001
Horizontal Test Jacks – for Standard Tip Plug: 2.03mm									
2	White	J108-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0751-001
	Red	J109-ND*	.46	4.06	32.11	67.60	126.75	236.60	105-0752-001
	Black	J110-ND*	.46	4.06	32.11	67.60	126.75	236.60	105-0753-001
	Green	J111-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0754-001
	Orange	J112-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0756-001
	Yellow	J113-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0757-001
	Brown	J114-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0758-001
	Blue	J115-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0760-001
	Violet	J116-ND	.46	4.06	32.11	67.60	126.75	236.60	105-0762-001
Horizontal Insulated Miniature Test Jacks – for Standard Tip Plug: 2.03mm									
3	White	J575-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1101-001
	Red	J576-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1102-001
	Black	J577-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1103-001
	Green	J578-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1104-001
	Yellow	J579-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1107-001
	Blue	J580-ND	.45	3.96	31.35	66.00	123.75	231.00	105-1110-001
Vertical Test Jacks – for Standard Tip Plug: 2.03mm									
4	White	J119-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0851-001
	Red	J120-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0852-001
	Black	J121-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0853-001
	Green	J122-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0854-001
	Yellow	J123-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0857-001
	Blue	J312-ND	.69	6.14	48.64	102.40	192.00	358.40	105-0860-001
Vertical Insulated Formed Contact Test Jacks – for Standard Tip Plug: 2.03mm									
5	White	J581-ND	.62	5.54	43.89	92.40	173.25	323.40	105-2201-201
	Red	J582-ND	.62	5.54	43.89	92.40	173.25	323.40	105-2202-201
	Black	J583-ND	.62	5.54	43.89	92.40	173.25	323.40	105-2203-201
	Green	J584-ND	.62	5.54	43.89	92.40	173.25	323.40	105-2204-201
	Yellow	J585-ND	.62	5.54	43.89	92.40	173.25	323.40	105-2207-201
Shielded Test Jack – Horizontal									
6	Tin	J463-ND	4.77	42.43	335.92	707.20	1326.00	2475.20	129-0701-301
	Gold	J571-ND	5.89	51.61	380.31	814.95	1358.25	—	129-0701-302
Shielded Test Jack – Vertical									
7	Tin	J462-ND	4.44	39.50	312.74	658.40	1234.50	2304.40	129-0701-201
	Gold	J570-ND	5.49	48.11	354.48	759.60	1266.00	—	129-0701-202
Tip Jacks – Insulated Deluxe: 2.00mm									
8	White	J105-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0601-001
	Red	J106-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0602-001
	Black	J107-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0603-001
	Green	J337-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0604-001
	Yellow	J338-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0607-001
	Blue	J339-ND	1.33	11.86	93.86	197.60	370.50	691.60	105-0610-001
Tip Jacks – Insulated Standard Type: 2.00mm									
9	White	J320-ND	.77	6.84	54.15	114.00	213.75	399.00	105-0801-001
	Red	J117-ND*	.77	6.84	54.15	114.00	213.75	399.00	105-0802-001
	Black	J118-ND*	.77	6.84	54.15	114.00	213.75	399.00	105-0803-001
	Green	J321-ND	.77	6.84	54.15	114.00	213.75	399.00	105-0804-001
	Yellow	J323-ND	.77	6.84	54.15	114.00	213.75	399.00	105-0807-001
	Blue	J325-ND	.77	6.84	54.15	114.00	213.75	399.00	105-0810-001
Tip Jacks with Sleeve Assembly: 2.00mm									
10	White	J450-ND	1.59	14.11	111.72	235.20	441.00	823.20	105-0701-001
	Red	J451-ND	1.59	14.11	111.72	235.20	441.00	823.20	105-0702-001
	Black	J452-ND	1.59	14.11	111.72	235.20	441.00	823.20	105-0703-001

Fig.	Color	Digi-Key Part No.	Pricing 1	10	100	250	500	1,000	Johnson Part No.
Tip Plugs – Insulated Solderless Type: 2.00mm									
11	White	J300-ND	.93	8.23	65.17	137.20	257.25	480.20	105-0301-001
	Red	J103-ND*	.93	8.23	65.17	137.20	257.25	480.20	105-0302-001
	Black	J104-ND*	.93	8.23	65.17	137.20	257.25	480.20	105-0303-001
	Green	J301-ND	.93	8.23	65.17	137.20	257.25	480.20	105-0304-001
	Blue	J305-ND	.93	8.23	65.17	137.20	257.25	480.20	105-0310-001
Tip Plugs – Insulated Stacking Single Type: 2.00mm									
12	Red	J454-ND	2.19	19.44	153.90	324.00	607.50	1134.00	105-1202-001
Miniature Banana Plugs – Insulated Solder Type: 2.64mm									
13	Red	J457-ND	1.84	16.34	129.39	272.40	510.75	953.40	108-1002-001
	Black	J458-ND	1.84	16.34	129.39	272.40	510.75	953.40	108-1003-001
Banana Jack – for Standard Banana Plug 4.44mm Across Flats									
14	—	J147-ND*	1.48	13.13	103.93	218.80	410.25	765.80	108-0740-001
Uninsulated w/Knurled Thumb Nut for Standard Banana Plug 4.44mm Across Flats									
15	—	J587-ND	2.85	25.32	200.45	422.00	791.25	1477.00	111-2223-001
Binding Posts – Insulated Standard: 4.44mm									
16	White	J370-ND	2.40	21.31	168.72	355.20	666.00	1243.20	111-0101-001
	Red	J164-ND*	2.40	21.31	168.72	355.20	666.00	1243.20	111-0102-001
	Black	J165-ND*	2.40	21.31	168.72	355.20	666.00	1243.20	111-0103-001
	Green	J371-ND	2.59	22.99	182.02	383.20	718.50	1341.20	111-0104-001
	Yellow	J372-ND	2.40	21.31	168.72	355.20	666.00	1243.20	111-0107-001
Banana Jacks – Insulated Solder Terminal: 4.44mm									
17	White	J150-ND*	.59	5.26	41.61	87.60	164.25	306.60	108-0901-001
	Red	J151-ND*	.59	5.26	41.61	87.60	164.25	306.60	108-0902-001
	Black	J152-ND*	.59	5.26	41.61	87.60	164.25	306.60	108-0903-001
	Green	J153-ND	.66	5.83	46.17	97.20	182.25	340.20	108-0904-001
	Orange	J356-ND	.59	5.26	41.61	87.60	164.25	306.60	108-0906-001
	Yellow	J154-ND	.59	5.26	41.61	87.60	164.25	306.60	108-0907-001
	Brown	J357-ND	.66	5.83	46.17	97.20	182.25	340.20	108-0908-001
	Blue	J155-ND	.59	5.26	41.61	87.60	164.25	306.60	108-0910-001
	Violet	J358-ND	.66	5.83	46.17	97.20	182.25	340.20	108-0912-001
	Gray	J359-ND	.59	5.26	41.61	87.60	164.25	306.60	108-0913-001
Banana Plug – Uninsulated Panel Mount Threaded Stud: 4.23mm									
18	—	J148-ND	1.56	13.90	110.01	231.60	434.25	810.60	108-0750-001
Banana Plug – Uninsulated Panel Mount Screw Type: 4.23mm									
19	—	J149-ND	1.34	11.95	94.62	199.20	373.50	697.20	108-0753-001
Banana Plugs – Insulated Solderless Tapered Handle: 4.23mm									
20	White	J144-ND*	1.25	11.11	87.97	185.20	347.25	648.20	108-0301-001
	Red	J145-ND*	1.25	11.11	87.97	185.20	347.25	648.20	108-0302-001
	Black	J146-ND*	1.25	11.11	87.97	185.20	347.25	648.20	108-0303-001
	Green	J340-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0304-001
	Orange	J341-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0306-001
	Yellow	J342-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0307-001
	Brown	J343-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0308-001
	Blue	J344-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0310-001
	Violet	J345-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0312-001
	Gray	J346-ND	1.25	11.11	87.97	185.20	347.25	648.20	108-0313-001
Banana Plugs – Insulated Round Body Solder Stud: 4.23mm									
21	Red	J156-ND	2.51	22.32	176.70	372.00	697.50	1302.00	108-1722-101
	Black	J157-ND	2.51	22.32	176.70	372.00	697.50	1302.00	108-1723-101
Banana Plugs – Insulated Round Body Solderless: 4.23mm									
21	Red	J158-ND	1.91	16.97	134.33	282.80	530.25	989.80	108-1722-103
	Black	J159-ND	1.91	16.97	134.33	282.80	530.25	989.80	108-1723-103
Banana Plugs – Insulated Stacking Single Type: 4.23mm									
22	White	J459-ND	2.08	18.48	146.30	308.00	577.50	1078.00	108-1081-001
	Red	J460-ND	2.08	18.48	146.30	308.00	577.50	1078.00	108-1082-001
	Black	J461-ND	2.08	18.48	146.30	308.00	577.50	1078.00	108-1083-001

J100-KIT-ND ***Digi-Key® Plug & Jack Kit*** Contains 10 each of the plugs or jacks as denoted (*) on chart. Price includes compartment divided plastic box for easy storage and quick access.................... **$76.95**

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tyco
Electronics

AMP

Micro Circular Metal Shell Connectors

Small, rugged circular connector

Applications: • Medical • Industrial • Military • Aerospace

Features: • High cycle life spring probe and pad contact interface • High density for limited space applications • Precision, screw machine contacts

Electrical: • Current Carrying Capacity: 1A • Operating Voltage: 200VAC maximum

Mechanical: • Environmental sealing: IP 67 - water immersion, 1M for 30 minutes • Wire size: 24-30 AWG • Maximum Operating Temperature: 392°F (200°C)

Fig. 1

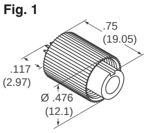

Fig. 2

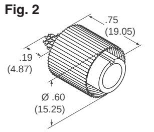

Fig. 3

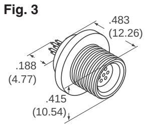

Fig. 4

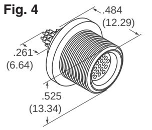

Fig. 5

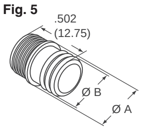

Fig.	No. of Pos.	Shell Size	Contact System	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	100	1000	Amp/Tyco Part No.
Plug Assembly										
1	7	M11	Spring Probe	—	—	A30545-ND	40.59	29.11	24.75	1738548-1
	7	M11	Pin	—	—	A30547-ND	35.53	25.48	21.67	1738541-1
2	19	M14	Spring Probe	—	—	A30546-ND	58.34	41.84	35.58	1738552-1
	19	M14	Pin	—	—	A30548-ND	54.55	39.12	33.27	1738550-1
Rear Panel Mount Receptacle Assembly										
3	7	M11	Spring Probe	—	—	A30551-ND	26.63	19.10	16.24	1604750-1
	7	M11	Socket	—	—	A30543-ND	25.38	18.20	15.48	1738547-1
4	19	M14	Spring Probe	—	—	A30542-ND	40.59	29.11	24.75	1738553-1
	19	M14	Socket	—	—	A30544-ND	36.78	26.38	22.43	1738551-1
Overmold Adapter										
5	—	M11	—	.326 (8.29)	.295 (7.5)	A30549-ND	11.07	7.94	6.75	1604366-4
	—	M14	—	.424 (10.76)	.385 (9.8)	A30550-ND	11.07	7.94	6.75	1604366-3
Accessories										
Jam Nut, M14, (sold seperately)						A30554-ND	10.15	7.28	6.19	811277-3
Rear Panel Seal, M14...						A30552-ND	.88	.64	.54	1445420-5

tyco Electronics AMP

Micro CPC

Electrical: • Current carrying capacity: 2-3A • Operating voltage: 250VAC minimum • Dielectric withstanding voltage: 1500VAC minimum **Mechanical:** • 5000 minimum mating cycles (Spring probe contact system) • 500 mating cycles (Screw machine pin and socket contacts) • Housing: Single piece design, nylon • Environmental sealing: Splash proof IP65 • Wire size: 24-30 AWG **Materials:** • Spring probe pin: Brass, 10 µin (.25 µm) gold finish over nickel on mating end, tin-lead over nickel on solder cup/solder tail • Spring probe pad: Brass, 30 µin (.76 µm) gold finish over nickel on entire contact • Screw machine pin: Brass, 30 µin (.76 µm) gold finish over nickel on entire contact • Screw machine socket: Brass body, beryllium copper clip, 30 µin (.76 µm) gold finish over nickel, clip tin-lead over nickel body **Contact Type:** **X** = Spring Probe Contacts **Y** = Pin and Socket Contacts

Fig. 1 - Plug

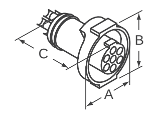

Solder Cup Shown

Fig. 2 - Panel Mount Receptacle

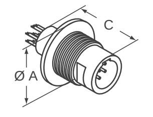

Solder Cup Shown

Fig. 3 - Free-Hanging Recept.

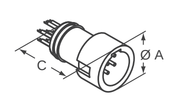

Solder Cup Shown

Fig.	No. of Pos.	Shell Size	Solder Type	Contact Type	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	50	Amp/Tyco Part No.
Plug Assembly												
1	7	M9.5	Cup	X	11.1	13.6	12.65	A29954-ND§	6.85	6.35	5.55	1445322-1
	19	M13.5	Cup	X	15.6	18.6	12.65	A29955-ND§	8.94	8.29	7.24	1445777-1
	7	M9.5	Cup	Y	11.1	13.6	12.65	A29964-ND	6.17	5.72	5.00	1445642-1
	19	M13.5	Cup	Y	15.6	18.6	12.65	A29965-ND	9.20	8.54	7.46	1445782-1
Panel Mount Receptacle Assembly												
2	7	M9.5	Cup	X	16	—	15.45	A29956-ND	13.08	12.13	10.60	1445718-1
	7	M9.5	Tail	X	16	—	15.45	A29957-ND	13.82	12.81	11.19	1445719-1
	19	M13.5	Cup	X	20.75	—	15.45	A29960-ND	23.58	21.85	19.09	1445759-1
	19	M13.5	Tail	X	20.75	—	15.45	A29961-ND	23.04	21.36	18.66	1445758-1
	7	M9.5	Cup	Y	16	—	15.45	A29966-ND§	7.54	7.00	6.11	1445721-1
	7	M9.5	Tail	Y	16	—	15.45	A29967-ND§	7.01	6.50	5.68	1445720-1
	19	M13.5	Cup	Y	20.75	—	15.45	A29970-ND§	11.64	10.80	9.43	1445779-1
	19	M13.5	Tail	Y	20.75	—	15.45	A29971-ND§	10.84	10.06	8.79	1445778-1
Free-Hanging Receptacle Assembly												
3	7	M9.5	Cup	X	9.5	—	12.25	A29958-ND	13.02	12.07	10.55	1445555-1
3	7	M9.5	Tail	X	9.5	—	12.25	A29959-ND	13.28	12.32	10.76	1445323-1
	19	M13.5	Cup	X	13.5	—	12.25	A29962-ND	21.14	19.59	17.12	1445757-1
	19	M13.5	Tail	X	13.5	—	12.25	A29963-ND	21.67	20.09	17.55	1445756-1
	7	M9.5	Cup	Y	9.5	—	12.25	A29968-ND§	8.57	7.95	6.94	1445641-1
	7	M9.5	Tail	Y	9.5	—	12.25	A29969-ND§	6.85	6.35	5.55	1445691-1
	19	M13.5	Cup	Y	13.5	—	12.25	A29972-ND§	9.98	9.26	8.09	1445773-1
	19	M13.5	Tail	Y	13.5	—	12.25	A29973-ND§	8.67	8.04	7.03	1445772-1
Accessories												
Jam Nut, Shell Size M9.5								A29974-ND§	1.07	.99	.87	1604197-1
Jam Nut, Shell Size M13.5								A29975-ND§	1.74	1.62	1.42	1604196-1
Strain Relief, Shell Size M9.5								A29976-ND§	2.58	2.40	2.10	1604111-1
Strain Relief, Shell Size M13.5								A29977-ND§	2.71	2.51	2.20	1604204-1
Flange Seal, Shell Size M9.5								A29978-ND§	.88	.82	.72	1445420-3
Flange Seal, Shell Size M13.5								A29979-ND§	.88	.82	.72	1445420-1

§ ***RoHS Compliant***

Miniature CPC

RoHS COMPLIANT

Features: • Pre-positioned 1/4 turn coupling ring with positive lock and alignment features • Sealed to IP67 **Electrical:** • Current carrying capacity: 5A • Operating voltage: 600VAC minimum • Dielectric withstanding voltage: 2200VAC minimum **Mechanical:** • Wire termination - crimp **Materials:** • Housing: Thermoplastic, black

Note: Receptacles accept pin contacts and plugs accept socket contacts

Fig. 1 - Plug

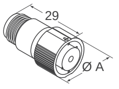

Dim. in mm

Fig. 2 - Panel Mount Receptacle

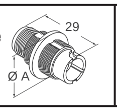

Fig. 3 - Free-Hanging Receptacle

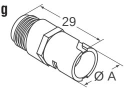

Fig.	No. of Pos.	Shell Size	Dim. A (mm)	Insulation Dia. Range (mm)	Digi-Key Part No.	Price Each 1	25	50	Amp/Tyco Part No.
Plug Assembly									
1	1	M8	12.55	.89-1.5	A29996-ND§	3.46	3.22	2.81	1445536-1
	1	M8	12.55	1.5-2.39	A29997-ND§	3.46	3.22	2.81	1445536-3
	2	M8	12.55	.89-1.5	A29998-ND§	3.46	3.22	2.81	1445535-1
	2	M8	12.55	1.5-2.39	A29999-ND§	3.46	3.22	2.81	1445535-3
	3	M8	12.55	.89-1.5	A30000-ND§	3.46	3.22	2.81	1445534-1
	3	M8	12.55	1.5-2.39	A30001-ND§	3.46	3.22	2.81	1445534-3
	4	M8	12.55	.89-1.5	A30002-ND§	3.46	3.22	2.81	1445390-1
	4	M8	12.55	1.5-2.39	A30003-ND§	3.46	3.22	2.81	1445390-3
	5	M11	18.8	.89-1.5	A30024-ND§	3.61	3.35	2.93	1445820-1
	5	M11	18.8	1.5-2.39	A30025-ND§	3.61	3.35	2.93	1445820-3
	6	M11	18.8	.89-1.5	A30026-ND§	3.61	3.35	2.93	1445819-1
	6	M11	18.8	1.5-2.39	A30027-ND§	3.61	3.35	2.93	1445819-3
	7	M11	18.8	.89-1.5	A30028-ND§	3.61	3.35	2.93	1445818-1
	7	M11	18.8	1.5-2.39	A30029-ND§	3.61	3.35	2.93	1445818-3
	8	M11	18.8	.89-1.5	A30030-ND§	3.61	3.35	2.93	1445817-1
	8	M11	18.8	1.5-2.39	A30031-ND§	3.61	3.35	2.93	1445817-3
	9	M11	18.8	.89-1.5	A30032-ND§	3.61	3.35	2.93	1445807-1
	9	M11	18.8	1.5-2.39	A30033-ND§	3.61	3.35	2.93	1445807-3
Panel Mount Receptacle Assembly									
2	1	M8	21	.89-1.5	A29980-ND§	5.02	4.66	4.07	1445539-1
	1	M8	21	1.5-2.39	A29981-ND§	5.02	4.66	4.07	1445539-3
	2	M8	21	.89-1.5	A29982-ND§	5.02	4.66	4.07	1445538-1
	2	M8	21	1.5-2.39	A29983-ND§	5.02	4.66	4.07	1445538-3
	3	M8	21	.89-1.5	A29984-ND§	5.02	4.66	4.07	1445537-1
	3	M8	21	1.5-2.39	A29985-ND§	5.02	4.66	4.07	1445537-3
	4	M8	21	.89-1.5	A29986-ND§	5.02	4.66	4.07	1445421-1
	4	M8	21	1.5-2.39	A29987-ND§	5.02	4.66	4.07	1445421-3
	5	M11	24	.89-1.5	A30004-ND§	5.39	5.00	4.37	1445824-1
	5	M11	24	1.5-2.39	A30005-ND§	5.39	5.00	4.37	1445824-3
	6	M11	24	.89-1.5	A30006-ND§	5.39	5.00	4.37	1445823-1
	6	M11	24	1.5-2.39	A30007-ND§	5.39	5.00	4.37	1445823-3
	7	M11	24	.89-1.5	A30008-ND§	5.39	5.00	4.37	1445822-1
2	7	M11	24	1.5-2.39	A30009-ND§	5.39	5.00	4.37	1445822-3
	8	M11	24	.89-1.5	A30010-ND§	5.39	5.00	4.37	1445821-1
	8	M11	24	1.5-2.39	A30011-ND§	5.39	5.00	4.37	1445821-3
	9	M11	24	.89-1.5	A30012-ND§	5.39	5.00	4.37	1445816-1
	9	M11	24	1.5-2.39	A30013-ND§	5.39	5.00	4.37	1445816-3
Free-Hanging Receptacle Assembly									
3	1	M8	14	.89-1.5	A29988-ND§	3.73	3.46	3.03	1445526-1
	1	M8	14	1.5-2.39	A29989-ND§	3.73	3.46	3.03	1445526-3
	2	M8	13.75	.89-1.5	A29990-ND§	3.73	3.46	3.03	1445522-1
	2	M8	13.75	1.5-2.39	A29991-ND§	3.73	3.46	3.03	1445522-3
	3	M8	13.75	.89-1.5	A29992-ND§	3.73	3.46	3.03	1445510-1
	3	M8	13.75	1.5-2.39	A29993-ND§	3.73	3.46	3.03	1445510-3
	4	M8	14	.89-1.5	A29994-ND§	3.73	3.46	3.03	1445389-1
	4	M8	14	1.5-2.39	A29995-ND§	3.73	3.46	3.03	1445389-3
	5	M11	20.5	.89-1.5	A30014-ND§	3.94	3.65	3.19	1445829-1
	5	M11	20.5	1.5-2.39	A30015-ND§	3.94	3.65	3.19	1445829-3
	6	M11	20.5	.89-1.5	A30016-ND§	3.94	3.65	3.19	1445828-1
	6	M11	20.5	1.5-2.39	A30017-ND§	3.94	3.65	3.19	1445828-3
	7	M11	20.5	.89-1.5	A30018-ND§	3.94	3.65	3.19	1445827-1
	7	M11	20.5	1.5-2.39	A30019-ND§	3.94	3.65	3.19	1445827-3
	8	M11	20.5	.89-1.5	A30020-ND§	3.94	3.65	3.19	1445826-1
	8	M11	20.5	1.5-2.39	A30021-ND§	3.94	3.65	3.19	1445826-3
	9	M11	20.5	.89-1.5	A30022-ND§	3.94	3.65	3.19	1445825-1
	9	M11	20.5	1.5-2.39	A30023-ND§	3.94	3.65	3.19	1445825-3
Accessories									
Jam Nut, Shell Size M8					A29975-ND§	1.74	1.62	1.42	1604196-1
Jam Nut, Shell Size M11					A30038-ND§	1.21	1.13	.98	1445904-1
Strain Relief, Straight, Shell Size M8					A30034-ND§	2.38	2.21	1.93	1445730-1
Strain Relief, Right Angle, Shell Size M8					A30035-ND§	2.69	2.49	2.18	1445771-1
Strain Relief, Straight, Shell Size M11					A30037-ND§	2.34	2.17	1.90	1445856-1
Insertion Tip (Seal Protector)					A32498-ND§	1.13	1.05	.92	1604816-1

§ ***RoHS Compliant***

Miniature CPC Contacts

Specifications: • Material: Brass • Stock thickness: .008" (.20mm) **Contact Plating: A:** Brass pre-tin plated **B:** Duplex finish - Plated with .000030" (.000762mm) minimum gold in mating area and .000100" (.00254mm) minimum tin-lead in crimp area over .000050" (.00127mm) minimum nickel underplate on entire contact

Pin Contact

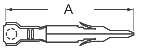

Socket Contact

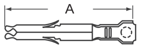

Wire Size (AWG)	Insulation Diameter Inch (mm)	Plating	Dimension A Inch (mm)	Digi-Key Part No.	Loose Piece Pricing 1	100	Amp/Tyco Part No.	Digi-Key Part No.	Cut Strip Pricing 500	1000	Digi-Key Part No.	Strip Tape & Reel Size	Pricing	Amp/Tyco Part No.
Pin Contacts — Diameter .039" (0.99mm)														
30-26	.035 - .050 (.889-1.27)	A	.671 (17.04)	A25667-ND§	.29	9.87	794059-1	A25667CT-ND§	—	60.10	A25667TR-ND§	10,000	32.46/M	770835-1
		B		A25671-ND	.52	33.22	794059-3	A25671CT-ND	—	301.53	A25671TR-ND	10,000	167.72/M	770835-3
26-22	.047 - .069 (1.19-1.75)	A	.671 (17.04)	A25675-ND§	.28	9.58	770985-1	A25675CT-ND§	—	60.10	A25675TR-ND§	7,000	36.06/M	770901-1
		B		A25679-ND	.52	33.22	770985-3	A25679CT-ND	—	301.53	—	—	—	770901-3
		B		A32013-ND§	.52	33.22	1-770985-0	A32013CT-ND§	170.82	310.58	A32013TR-ND§	7,000	186.35/M	1-770901-0
22-18 or 22(2)	.059 - .110 or .133 max. (1.50-2.79 or 3.38)	A	.671 (17.04)	A25683-ND§	.29	9.87	770987-1	A25683CT-ND§	33.06	60.10	A25683TR-ND§	4,500	36.06/M	770903-1
		B		A25687-ND	.52	33.22	770987-3	—	—	—	—	—	—	—
		B		A32015-ND§	.52	33.22	1-770987-0	A32015CT-ND§	162.24	294.98	A32015TR-ND§	4,500	176.99/M	1-770903-0
Socket Contacts														
30-26	.035 - .050 (8.89-1.27)	A	.659 (16.74)	A25668-ND§	.18	5.99	794058-1	A25668CT-ND§	—	60.10	A25668TR-ND§	10,000	32.46/M	770834-1
		B		A25672-ND	.31	20.14	794058-3	A25672CT-ND	—	326.13	A25672TR-ND	10,000	176.11/M	770834-3
26-22	.047 - .069 (1.19-1.75)	A	.659 (16.74)	A25676-ND§	.29	9.87	770986-1	A25676CT-ND§	—	60.10	A25676TR-ND§	7,000	36.06/M	770902-1
		B		A25680-ND	.52	33.22	770986-3	A25680CT-ND	—	313.90	A25680TR-ND	7,000	194.00/M	770902-3
		B		A32014-ND§	.52	33.22	1-770986-0	A32014CT-ND§	177.83	323.33	A32014TR-ND§	7,000	194.00/M	1-770902-0
22-18 or 22(2)	.059 - .110 or .133 max. (1.50-2.37 or 3.38)	A	.659 (16.74)	A25684-ND§	.18	5.99	770988-1	A25684CT-ND§	33.06	60.10	A25684TR-ND§	4,500	36.06/M	770904-1
		B		A25688-ND	.52	33.22	770988-3	A25688CT-ND	157.51	286.38	—	—	—	770904-3
		B		A32016-ND§	.52	33.22	1-770988-0	A32016CT-ND§	162.24	294.98	A32016TR-ND§	4,500	176.99/M	1-770904-0
Keying Plugs and Tools for Miniature CPC Contacts														
Contact Extraction Tool				A25695-ND	19.28	—	189727-1	—	—	—	—	—	—	—
Contact Insertion Tool				A1444-ND	17.06	—	455830-1	—	—	—	—	—	—	—
PRO-CRIMPER II Hand Tool, w/Die, 22-26AWG				A25584-ND	145.50	—	90758-1	—	—	—	—	—	—	—
PRO-CRIMPER II Hand Tool, w/Die, 20-22 or 18(2)AWG				A25585-ND	145.50	—	90759-1	—	—	—	—	—	—	—
PRO-CRIMPER II Hand Tool, w/Die, 16-20 or 20(2)AWG				A25586-ND	218.16	—	90760-1	—	—	—	—	—	—	—
Die Set, 22-26AWG use with A9996-ND				A30039-ND	111.00	—	90758-2	—	—	—	—	—	—	—
Die Set, 20-22 or 18(2)AWG use with A9996-ND				A30040-ND	111.00	—	90759-2	—	—	—	—	—	—	—

§ ***RoHS Compliant***

Circular Plastic Connectors

Component Diameter	
Arrangement/ Shell Size	Overall Dia. Inch (mm)
11	.942 (23.93)
13	1.070 (27.18)
17	1.315 (33.40)
23	1.743 (44.2)

• Lightweight, all-plastic connectors • CPC connectors made of UL recognized, high-grade black thermoplastic material • 94V-1 rated, heat-stabilized, fire-resistant, self-extinguishing • Two connector series for different connection needs:

Series 1 — Standard density applications with Multimate contacts.

Series 2 — High-density applications with size 20 DM and 20 DF contacts, .040" (1.02 mm) diameter

- Available in panel-mount, chassis-mount and free hanging versions
- Quick-connect/disconnect capability with thread assist, positive detent coupling
- Built-in pin and socket protection. Plug or socket half can be "hot", depending on connector sex
- 5-key polarization for proper mating of connector halves
- Full complement of optional accessories

Note: Contacts (pins and sockets) must be ordered separately, unless otherwise noted.

Series 1 and 2

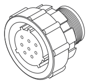
* Standard Sex (Plug/Socket)

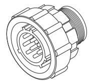
† Reverse Sex (Plug/Pins)

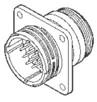
* Standard Sex Square-Flange Receptacle

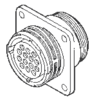
† Reverse Sex Square-Flange Receptacle

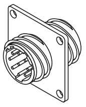
* Standard Sex Feed-Thru Receptacle

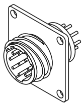
* Standard Sex PC Mount

Series 3

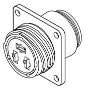
† Reverse Sex Square Flange Receptacle

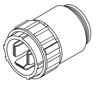
† Reverse Sex Plug

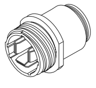
* Standard Sex Free-Hanging Receptacle

Series 4

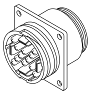
* Standard Sex Square Flange Receptacle

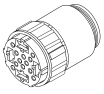
* Standard Sex Plug

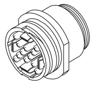
* Standard Sex Free-Hanging Receptacle

Series 5

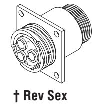
† Rev Sex Square Flange Receptacle

† Rev Sex Free-Hanging Receptacle

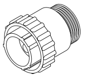
† Reverse Sex Plug

Series 6

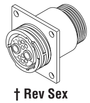
† Rev Sex Square Flange Receptacle

† Rev Sex Free-Hanging Receptacle

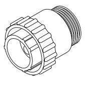
† Reverse Sex Plug

Series 1

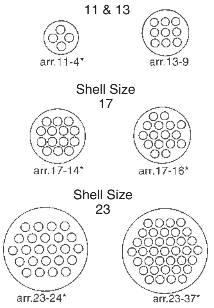

Series 2

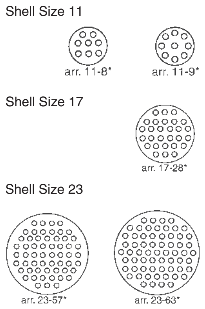

Series 3

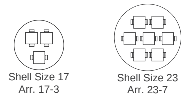

Series 4

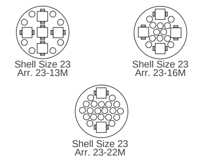

Series 5

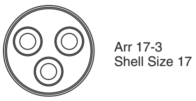

Series 6

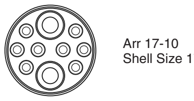

* **Standard Sex:** Pin contacts in receptacle housings; socket contacts in plug housings † **Reverse Sex:** Socket contacts in receptacle housings; pin contacts in plug housings.

Series 1 (Shell Only)

Shell Size	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	4	Rev.	Receptacle-Square Flanged	A1360-ND	2.11	1.96	206430-1
			Receptacle-Free Hanging	A1361-ND	2.11	1.96	206430-2
			Recept.-Square Flanged w/Inserts	A25053-ND	4.74	4.39	211102-1
			Plug	A1357-ND	2.52	2.34	206429-1
		Std.	Receptacle-Square Flanged	A1301-ND	2.05	1.90	206061-1
			Receptacle-Free Hanging	A1351-ND	2.11	1.96	206153-1
			Plug	A1300-ND	2.50	2.32	206060-1
13	9	Std.	Receptacle-Square Flanged	A1303-ND	2.19	2.04	206705-1
			Receptacle-Free Hanging	A1352-ND	2.23	2.08	206705-2
			Plug	A1302-ND	2.75	2.55	206708-1
17	14	Rev.	Receptacle-Square Flanged	A1362-ND	2.32	2.15	206043-1
			Receptacle-Free Hanging	A1363-ND	2.87	2.66	206043-3
			Plug	A1358-ND	2.83	2.63	206044-1
	16	Std.	Receptacle-Square Flanged	A1305-ND	2.32	2.15	206036-1
			Receptacle-Free Hanging	A1353-ND	2.32	2.15	206036-3
			Receptacle-Feed-Thru	A25058-ND	69.35	64.28	206552-1
			Plug-Reverse Numbering	A25057-ND	5.00	4.64	206554-1
			Plug	A1304-ND	2.83	2.63	206037-1
23	24	Std.	Receptacle-Square Flanged	A1354-ND	2.83	2.63	206838-1
			Receptacle-Free Hanging	A1355-ND	3.90	3.61	206838-2
			Plug	A1350-ND	3.71	3.44	206837-1
	37	Rev.	Receptacle-Square Flanged	A1364-ND	2.64	2.46	206306-1
			Receptacle-Free Hanging	A1365-ND	3.67	3.41	206306-2
			Plug	A1359-ND	3.38	3.14	206305-1
		Std.	Receptacle-Square Flanged	A1307-ND	2.64	2.46	206151-1
			Receptacle-Free Hanging	A1356-ND	2.85	2.65	206151-2
			Plug	A1306-ND	3.38	3.14	206150-1

Series 1 (Shell & Contacts)- PC Mount with .025" (.64mm) Sq. Sol. Tails

Contact Finish: Duplex plated gold flash on entire contact with 30μ" minimum gold on contact engagement area, tin-lead on the termination area, all over 50μ" minimum nickel under plating.

Shell Size	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	4	Rev.	Receptacle	A25054-ND	8.41	7.79	208283-1
13	9	Std.	Receptacle	A25055-ND	6.95	6.45	208223-1
17	16	Std.	Receptacle	A25056-ND	12.05	11.18	207303-3

Series 1 (Shell Only) - VDE Tested Connectors

Designed to meet requirements of VDE as shown in DIN Specification 57627. Recognized under the Component Program of UL for 600VAC & 600VDC service, File No. E28476. Certified by CSA, File No. LR7189.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
13	7	Std.	Receptacle-Square Flanged	A1635-ND	3.73	3.46	211401-1
			Plug	A1638-ND	3.42	3.18	211399-1
		Rev.	Receptacle-Square Flanged	A1641-ND	3.30	3.06	211398-1
			Plug	A1644-ND	3.87	3.60	211400-1
17	9	Std.	Receptacle-Square Flanged	A1636-ND	3.44	3.20	211767-1
			Plug	A1639-ND	4.51	4.18	211766-1
		Rev.	Receptacle-Square Flanged	A1642-ND	3.79	3.52	211769-1
			Plug	A1645-ND	4.02	3.73	211768-1
23	19	Std.	Receptacle-Square Flanged	A1637-ND	4.47	4.15	211771-1
			Plug	A1640-ND	5.43	5.04	211770-2
		Rev.	Receptacle-Square Flanged	A1643-ND	3.79	3.52	211773-1
			Plug	A1646-ND	4.55	4.22	211772-1

Series 1 (Shell Only) - Sealed Receptacle Connectors

Sealed CPC connectors are designed to meet the requirements of UL, CSA, and VDE for environmentally sealed connectors used in industrial applications.

Operating Temperature Range: -50°C ~ 125°C.
Voltage Rating: 600 V (AC or DC),
Contacts: 13 amps., single contact rating at 30°C T-Rise.
Flammability Rating: UL 94V-0 rated.
Sealing Capability: Per IP66 and IP67.
Housing Material: Black, high strength, impact resistant thermoplastic.
Seal: Gray Elastomer.
Fluid Resistance: Diesel fuel, gear and engine fuel, gasoline, anti-freeze, hydraulic fluid, water.

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	4	Rev.	Square Flange	A1675-ND	2.52	2.34	206430-3
			Free-Hanging	A1676-ND	7.81	7.24	206430-4
		Std.	Square Flange	A25038-ND	6.81	6.31	206061-2
13	9	Std.	Square Flange	A1669-ND	3.36	3.12	206705-3
			Free-Hanging	A1670-ND	3.46	3.22	206705-4
17	14	Rev.	Square Flange	A1677-ND	3.01	2.80	206043-4
			Free-Hanging	A1678-ND	5.88	5.46	206043-5
	16	Std.	Square Flange	A1671-ND	4.08	3.79	206036-4
			Free-Hanging	A1672-ND	3.59	3.33	206036-5
23	24	Std.	Square Flange	A1673-ND	4.16	3.86	206838-3
			Free-Hanging	A1674-ND	4.76	4.41	206838-4
	37		Square Flange	A25049-ND	4.47	4.15	206151-3

(Continued)

Series 2 (Shell Only)

Shell Size	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	8	Std.	Receptacle-Square Flanged	A1366-ND	3.81	3.54	205841-1
			Receptacle-Free Hanging	A1367-ND	3.79	3.52	205841-2
			Plug	A1368-ND	4.59	4.26	205838-1
			Receptacle-Feed-Thru	A25048-ND	35.75	33.14	206458-1
		Rev.	Receptacle-Square Flanged	A1369-ND	3.85	3.58	206433-1
			Receptacle-Free Hanging	A1370-ND	3.85	3.58	206433-2
			Plug	A1371-ND	4.59	4.26	206434-1
	9	Std.	Receptacle-Square Flanged	A1372-ND	3.73	3.46	206486-1
			Receptacle-Free Hanging	A1373-ND	3.85	3.58	206486-2
			Plug	A1374-ND	4.51	4.18	206485-1
17	28	Std.	Receptacle-Square Flanged	A1375-ND	4.12	3.82	205840-3
			Plug-Reverse Numbering	A25045-ND	8.71	8.08	206126-1
			Receptacle-Free Hanging	A1376-ND	4.86	4.51	206152-1
			Receptacle-Feed-Thru	A25046-ND	47.70	44.22	206127-1
			Plug - Dia. 1.349 (34.26) max.	A1377-ND	4.86	4.51	205839-3
			Plug - Dia. 1.315 (33.40) max.	A25044-ND	8.71	8.08	206125-1
		Rev.	Receptacle-Square Flanged	A1378-ND	4.00	3.71	206038-1
			Receptacle-Free Hanging	A1379-ND	4.90	4.55	206038-2
			Plug	A1380-ND	4.76	4.41	206039-1
23	57	Rev.	Receptacle-Square Flanged	A1381-ND	6.33	5.88	206438-1
			Receptacle-Free Hanging	A1382-ND	10.19	9.45	206438-2
			Plug	A1383-ND	6.52	6.05	206437-1
	63	Std.	Receptacle-Square Flanged	A1384-ND	6.11	5.67	205843-1
			Receptacle-Free Hanging	A1385-ND	6.44	5.97	205843-2
			Plug	A1386-ND	6.48	6.01	205842-1

Series 2 (Shell & Contacts) - PC Mount with .025" (.64mm) Sq. Sol. Tails

Shell Size	No. of Cont.	Sex	Cont. Finish	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	8	Rev.	A	Receptacle-Square Flanged	A25040-ND	8.30	7.70	208657-1
11	9	Std.	A	Receptacle-Square Flanged	A25041-ND	8.53	7.91	206852-2
17	28	Rev.	B	Receptacle-Square Flanged	A25042-ND	14.51	13.46	207216-2
23	63	Std.	A	Receptacle-Square Flanged	A25043-ND	28.70	26.60	206455-2

A - Duplex plated gold flash on entire contact with 30µ" min. gold on contact engagement area, tin-lead on the termination area, all over 50µ" minimum nickel under plating. **B** - Plated gold flash on the entire contact, tin-lead on the termination area.

Series 3 and 4 (Shell Only)

Shell Size	No. of Contacts	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
			Series 3				
17	3	Std.	Receptacle-Square Flanged	A1681-ND	2.83	2.63	206036-2
			Receptacle-Free Hanging	A1683-ND	2.83	2.63	206207-1
			Plug	A1685-ND	3.71	3.44	206037-2
		Rev.	Receptacle-Square Flanged	A16015-ND	2.83	2.63	206425-1
			Receptacle-Free Hanging	A16017-ND	3.83	3.56	206425-2
			Plug	A16019-ND	5.06	4.70	206426-1
23	7	Std.	Receptacle-Square Flanged	A1682-ND	4.35	4.03	206137-1
			Receptacle-Free Hanging	A1684-ND	4.45	4.13	206137-2
			Plug	A1686-ND	4.02	3.73	206136-1
		Rev.	Receptacle-Square Flanged	A16016-ND	3.71	3.44	206227-1
			Receptacle-Free Hanging	A16018-ND	3.71	3.44	206227-2
			Plug	A16020-ND	4.08	3.79	206226-1
			Series 4				
23	13	Std.	Receptacle-Square Flanged	A16029-ND	5.17	4.79	211825-1
			Receptacle-Free Hanging	A16032-ND	4.76	4.41	211825-2
			Plug	A16035-ND	6.77	6.27	211824-1
	16	Std.	Receptacle-Square Flanged	A16030-ND	3.53	3.27	207486-1
			Receptacle-Free Hanging	A16033-ND	4.86	4.51	207486-2
			Plug	A16036-ND	3.96	3.67	207485-1
	22	Std.	Receptacle-Square Flanged	A16031-ND	3.28	3.04	206613-1
			Receptacle-Free Hanging	A16034-ND	4.47	4.15	206613-3
			Plug	A16037-ND	4.72	4.37	206612-1

Series 5 and 6 Sealed

Sealed CPC connectors are the latest additions to the growing family of Circular Plastic Connectors. Sealed CPC connectors were developed as part of the Series 5 and 6 product line. Sealed CPC connectors are designed to meet the requirements of UL, CSA, and VDE. Sealed CPC connectors incorporated the latest technology in thermoplastic design and use the POWERBAND precision formed high current contact.

Shell Size	No. of Cont.	Sex	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
			Series 5				
17	3	Rev	Square Flange, Receptacles	A25781-ND	4.72	4.37	213889-2
17	3	Rev	Free-Hanging, Receptacles	A25782-ND	4.94	4.58	213890-2
17	3	Rev	Plug Assembly	A25783-ND	6.13	5.69	213905-1
			Series 6				
17	10	Rev	Square Flange, Receptacles	A25785-ND	4.12	3.82	213893-2
17	10	Rev	Free-Hanging, Receptacles	A25786-ND	5.66	5.25	213894-2
17	10	Rev	Plug Assembly	A25787-ND	7.42	6.88	213906-1

Accessories

Fig. 1

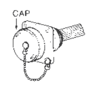

Fig. 2

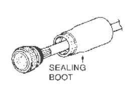

Fig. 3

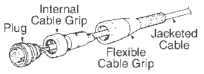

Fig. 4

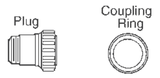

Fig. 5

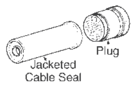

Fig. 6

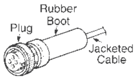

Fig. 7

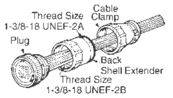

Fig. 8

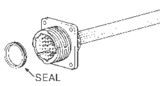

Fig. 9

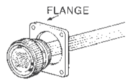

Fig.	Description	Shell Size	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Sealing Cap for Receptacles, Plastic Strap	11	A16038-ND	3.36	3.12	206903-1
		13	A16039-ND	3.03	2.82	211870-1
		17	A16040-ND	3.69	3.42	207445-1
		23	A16041-ND	4.18	3.88	207446-1
1	Sealing Cap for Receptacles, Metal Bead Chain	11	A16042-ND	5.60	5.19	208800-1
		13	A16043-ND	6.70	6.22	213485-1
		17	A16044-ND	5.43	5.04	208652-1
		23	A16045-ND	6.50	6.03	208680-1
		23	A20537-ND†	8.36	7.76	208680-2
2	Heat Shrinkable Sealing Boot, .260" – .600"	11	A16046-ND	7.71	7.15	54010-1
	Heat Shrinkable Sealing Boot, .300" – .725"	13	A16047-ND	8.51	7.89	54123-1
	Heat Shrinkable Sealing Boot, .400" – .875"	17	A16048-ND	8.34	7.74	54011-1
	Heat Shrinkable Sealing Boot, .250" – .500"	17	A16060-ND††	5.06	4.70	213933-1
	Heat Shrinkable Sealing Boot, .500" – 1.25"	23	A16049-ND	9.37	8.69	54012-1
3	Flexible Cable Boot, Black Thermoplastic	11	A16050-ND	2.52	2.34	207489-1
		17	A16052-ND	4.08	3.79	207241-1
3	Internal Cable Grip, Black Thermoplastic	11	A16051-ND	2.71	2.51	207490-1
	Internal Cable Grip, Black Thermoplastic 8.25mm	17	A16053-ND	3.51	3.25	207387-1
	Internal Cable Grip, Black Thermoplastic 9.78mm	17	A16054-ND	3.38	3.14	207387-2
4	Replacement Coupling Ring	11	A16055-ND	.96	.90	213811-1
		13	A16056-ND	1.35	1.26	213813-1
		17	A16057-ND	1.08	1.01	213810-1
		23	A16058-ND	1.73	1.61	213812-1
5	Jacketed Cable Seal, Cable Diameter 7.62mm	23	A16063-ND	13.41	12.43	207052-1
	Jacketed Cable Seal, Cable Diameter 11.43mm	23	A16064-ND	21.94	20.33	207052-2
	Jacketed Cable Seal, Cable Diameter 15.24mm	23	A16065-ND	14.23	13.19	207052-3
6	Rubber Boots	11	A16059-ND*	6.68	6.20	206304-1
7	Back Shell Extender	23	A16062-ND	4.08	3.79	207055-1
8	Peripheral Seals for Receptacles Only	11	A1335-ND	.60	.56	206403-1
		13	A1336-ND	.88	.82	206403-4
		17	A1337-ND	.68	.63	206403-2
		23	A1338-ND	1.23	1.15	206403-3
9	Panel Mount Flanges for Plugs Only	11	A25003-ND	4.88	4.53	207299-1
		13	A25004-ND	4.14	3.84	207299-2
		17	A25019-ND	4.33	4.01	207299-3
		23	A25020-ND	2.77	2.57	207299-4
—	Flange Gasket	11	A30707-ND	1.16	1.08	81665-3
		13	A30705-ND	1.17	1.09	81665-4
		17	A25784-ND	1.18	1.10	81665-2
		23	A30706-ND	1.25	1.17	81665-5
—	Keying Plug, Series 1 & 4		A16066-ND	.20	.19	200821-1
	Keying Plug, Series 2		A16067-ND	.37	.35	206509-1
	Keying Plug, Series 3 & 4 (Socket Cavities)		A16068-ND	.72	.67	206508-1
	Keying Plug, Series 3 & 4 (Pin Cavities)		A16069-ND	2.11	1.96	207597-1

* Rubber boots are used with jacketed cable to provide splashproof connections for Series 1 & 3 connectors. Black neoprene.

† For use with series 2 only.

††Thin Wall Boot

(Continued)

Wire Entry Seal Kits

Includes one Gang Seal and one pressure plate marked for cavity identification. **Material and Finish:** Seal - Elastomer, red iron oxide. Pressure Plate - Nylon, black

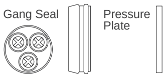

Shell Size	Insulation Diameter Inch (mm)	Seal Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
Kit for Pins							
13-9	.075 - .125 (1.91 - 3.18)	.681 (17.30)	A25059-ND	4.72	4.37	3.82	213926-1
17-3	.178 - .265 (4.52 - 6.73)	.790 (20.07)	A25060-ND	6.03	5.59	4.89	213899-1
17-10	.150 - .265 (3.81 - 6.73)	.790 (20.07)	A25788-ND	4.45	4.13	3.61	213900-1
17-14	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25061-ND	4.82	4.47	3.91	213919-2
17-16	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25062-ND	4.82	4.47	3.91	213920-2
Kit for Sockets							
13-9	.075 - .125 (1.91 - 3.18)	.681 (17.30)	A25063-ND	4.72	4.37	3.82	213925-1
17-3	.178 - .265 (4.52 - 6.73)	.790 (20.07)	A25060-ND	6.03	5.59	4.89	213899-1
17-10	.150 - .265 (3.81 - 6.73)	.790 (20.07)	A25788-ND	4.45	4.13	3.61	213900-1
17-14	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25064-ND	6.89	6.39	5.58	213919-1
17-16	.075 - .125 (1.91 - 3.18)	.790 (20.07)	A25065-ND	10.29	9.54	8.34	213920-1

Cable Clamps – Plastic Shell

Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings. These may be used on all receptacles and plugs. Two screws included.

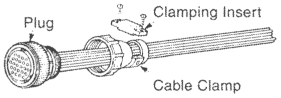

Shell Size	Cable Outer Diameter Inch (mm)	Screw Length Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	.329 (8.36)	.375 (9.53)	A1330-ND	3.38	3.14	206062-1
11	.329 (8.36)	.500 (12.7)	A25021-ND	3.38	3.14	206062-3
13	.453 (11.51)	.500 (12.7)	A1331-ND	3.40	3.16	206966-1
17	.453 (11.51)	.500 (12.7)	A1332-ND	3.40	3.16	206070-1
23	.703 (17.86)	.625 (15.88)	A1334-ND	3.53	3.27	206138-1
11	.453 (11.51)	.500 (12.7)	A1687-ND	3.38	3.14	206358-1
13	.703 (17.86)	.625 (15.88)	A1688-ND	3.59	3.33	207008-1
17	.703 (17.86)	.625 (15.88)	A1689-ND	3.87	3.60	206322-1
23	1.125 (28.58)	.625 (15.88)	A1690-ND	4.45	4.13	206512-1
23	1.125 (28.58)	1.00 (25.4)	A16061-ND*	5.62	5.21	207774-1

* Self-Centering

Right Angle Cable Clamps

Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings. These may be used on all receptacles and plugs. Two screws included.

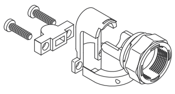
Right Angle Cable Clamp With Cover

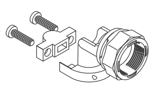
Right Angle Cable Clamp Without Cover

Shell Size	Cable Outer Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Cable Clamp with Cover					
11	.329 (8.36)	A31208-ND	5.84	5.42	1546347-1
13	.453 (11.51)	A31209-ND	5.95	5.51	1546348-1
17	.453 (11.51)	A31210-ND	5.95	5.51	1546349-1
23	.703 (17.86)	A31211-ND	6.29	5.84	1546350-1
Cable Clamp without Cover					
11	.329 (8.36)	A31212-ND	5.15	4.77	796379-1
13	.453 (11.51)	A31213-ND	5.19	4.81	796380-1
17	.453 (11.51)	A31214-ND	5.19	4.81	796381-1
23	.703 (17.86)	A31215-ND	5.60	5.19	796382-1

Flexible Tubing Connectors

To be used with all circular plastic connectors

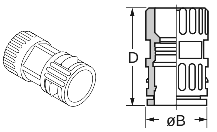

Characteristics: • One-piece plastic quick screw connection with UNEF-inner thread • **Material:** High-quality, impact resistant plastic material (PA); Sealing: Santoprene® • **Properties:** Easy to assemble due to one-piece screw connection with push-in lock. Simple disconnect by displacing the snap-in sleeve. Smallest outer dimensions to be used under confined conditions • **Temperature Range:** From approximately -30°C ~100°C • **Color:** Black

CPC Shell Size	Trade Size Tubing Outer Diameter	Inner Thread UNEF	Dimensions (mm) Largest Outer øB	Dimensions (mm) Total Length D	Digi-Key Part No.	Price Each 1	25	AMP Part No.
11	0.51" (13.0mm)	5/8" - 24	20.6	36.6	A16102-ND	3.94	3.65	1-969807-2
13	0.62" (15.8mm)	3/4" - 20	23.6	41.7	A16103-ND	3.98	3.69	1-969809-3
17	0.83" (21.2mm)	15/16" - 20	30.1	50.3	A16104-ND	5.04	4.68	1-969811-4
23	1.12" (28.5mm)	1" - 20	37.0	54.0	A16105-ND	6.97	6.46	2-969813-5

NOTE: Must also be used with Flexible Corrugated Tubing (Mfg. numbers 969789-2, 969789-3, 969789-4 & 969789-5)

Flexible Corrugated Tubing and Connectors

Fig. 1 - All-plastic Tubing

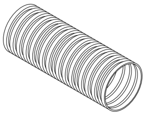

Fig. 2 - Straight Tubing Connections

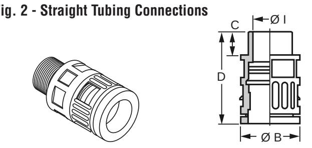

Fig. 3 - Right Angle Tubing Connections

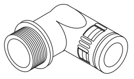

Screwed connection case, 90° elbow type and fixed PG connecting thread DIN 40430

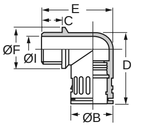

PLASTIC TUBING:

- **Properties:** Air- and liquid-tight, oil resistant up to 80°C, benzine resistant, highly resistant to acids and solvents, ozone resistant, free of silicon, cadmium and halogen, self-extinguishing and flame retarding
- **Temperature Range:** Approximately -40°C ~ 115°C, temporarily withstands temperatures up to approximately 150°C
- **Color:** Black • UL File No. E86359, GGVS certified

CONNECTIONS: • One-piece plastic quick screw connection with PG-thread accessory to DIN 40430 for corrugated tubings

- **Material:** High-quality, impact resistant plastic material (PA); Sealing: Santoprene®
- **Properties:** Easy to assemble due to one-piece screw connection with push-in lock. Simple disconnect by displacing the snap-in sleeve. Smallest outer dimensions to be used under confined conditions
- **Temperature Range:** From approximately -30°C ~ 100°C
- **Color:** Black • GGVS certified

Trade Size Tubing Outer Diameter Inch (mm)	Bending Radius (mm)-±10%	Digi-Key Part No.	Note: X in Part No. = Meters Per Roll Price Per Roll 5 meter	10 meter	25 meter	50 meter	AMP Part No.
Fig. 1 — All-Plastic Tubing							
0.51 (13.0)	20	A16090-X-ND	16.95	31.08	70.63	113.00	969789-2
0.62 (15.8)	35	A16091-X-ND	22.05	40.43	91.88	147.00	969789-3
0.83 (21.2)	45	A16092-X-ND	34.95	64.08	145.63	233.00	969789-4
1.12 (28.5)	55	A16093-X-ND	57.30	105.05	238.75	382.00	969789-5

Trade Size Tubing Outer Diameter Inch (mm)	Thread DIN 40430 PG	Dimensions (mm) Smallest Inner øI	Largest Inner øB	Thread Length C	Total Length D	Total Height E	Connection øF	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Fig. 2 — Panel Mount Straight Tubing Connections											
0.51 (13.0)	9	10.0	20.0	10	35.0	—	—	A16094-ND	3.26	3.03	969803-2
0.62 (15.8)	11	12.5	23.0	10	37.0	—	—	A16095-ND	3.24	3.01	969803-3
0.83 (21.2)	16	17.0	29.5	12	43.5	—	—	A16096-ND	3.40	3.16	969803-4
1.12 (28.5)	21	23.5	37.0	12	46.0	—	—	A16097-ND	6.07	5.63	969803-5
Fig. 3 — Panel Mount Right Angle Tubing Connections											
0.51 (13.0)	9	12.0	20.0	10	36.0	34.0	20.0	A16098-ND	5.88	5.46	969817-2
0.62 (15.8)	11	15.5	23.0	10	42.0	37.5	23.0	A16099-ND	6.13	5.69	969817-3
0.83 (21.2)	16	18.0	29.5	12	50.0	47.0	27.0	A16100-ND	6.46	5.99	969817-4
1.12 (28.5)	21	24.0	37.0	12	57.0	55.0	34.0	A16101-ND	10.97	10.17	969817-5

Note: Must order counternuts and seals separately.

Thread DIN 40430 PG	Dimensions (mm) Thickness	Hex Width	Height	Outer Diameter	Inner Diameter	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Counternuts									
9	5.0	22	—	—	—	A16106-ND	.36	.34	796260-2
11	5.0	24	—	—	—	A16107-ND	.43	.40	796260-3
16	6.0	30	—	—	—	A16108-ND	.48	.45	796260-5
21	7.0	36	—	—	—	A16109-ND	.76	.71	796260-6
Flat O-Ring Seal									
9	—	—	1.6	19	15	A16110-ND	.78	.72	796257-2
16	—	—	1.8	27	21.5	A16112-ND	.91	.85	796255-3

Contacts (Pins and Sockets)

CONTACT FINISH:
A Selective gold with 30µ gold on electrical engagement area over 50µ nickel on entire contact
B Duplex-plated 30µ gold in mating area over 50µ nickel on contact body; bright tin-lead on solder tab
C 15µ gold in the mating area over 50µ nickel
D Selective gold, 30µ gold over 30µ nickel
E .000100" (0.00254mm) silver-plated contacts with lubricant added
F Bright tin-lead on entire contact
G Selective gold with 30µ gold on electrical engagement area with 10µ on the remainder over 50µ nickel
H Bright tin on entire contact
J Duplex-plated 30µ gold in mating area over 50µ nickel on contact body; bright tin on solder tab

Series 1 Signal, Type III+, Precision Formed

Pin Diameter: .062" (1.57mm) **Test Current:** 13A **Materials:** Crimp Contacts: Brass; Solder Contacts and Grounding Pin: Copper alloy, plated tin or gold; Spring: Stainless steel

Fig. 1 – Crimp

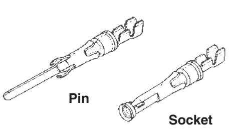

Fig. 2 – Solder Type

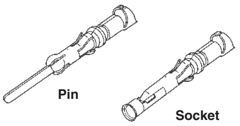

Fig. 3 – Solder Tab

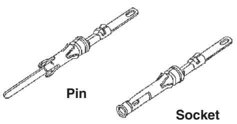

Fig. 4 – Wire Wrap

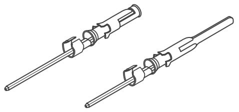

Tail Length Inches (mm)	Amp Pin Part No.	Amp Socket Part No.
.622 (15.80)	66460-1	66461-1
.831 (21.11)	66460-2	66461-2
1.020 (25.91)	66460-3	66461-3
.622 (15.80)	66460-7	66461-7
.831 (21.11)	66460-8	66461-8
1.020 (25.91)	66460-9	66461-9

Series 2

Pin Diameter: .040" (1.02mm) **Test Current:** 7.5A **Materials:** Pin Body: Brass; Socket: Phosphor bronze

Fig. 5 – Crimp With Insulation Support

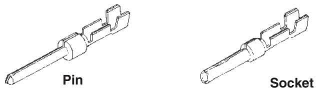

Fig. 6 – Solder Cup

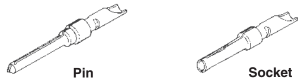

Series 3

Fig. 7 – Power Contacts

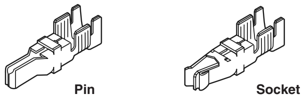

Desc.	Wire Size AWG	Ins. Dia. Inch	Cont. Fin.	Digi-Key Part No.	Loose Pc. Price Each 10	Loose Pc. Price Each 100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Cut Strip Pricing 500	Digi-Key Part No.	Strip Tape and Reel Size	Strip Tape and Reel Pricing	AMP Part No.	AMP Tooling Part No.
Series 1 — Crimp, Fig. 1															
Pin	30-26	.040-.060	F	—	—	—	—	A25084CT-ND	46.59	213.54	A25084TR-ND	4,000	239.93/M	66425-6	91515-1
Pin			H	—	—	—	—	A31999CT-ND◊	47.99	219.93	A31999TR-ND◊	4,000	239.93/M	1-66425-2	91515-1
Socket			F	—	—	—	—	A25085CT-ND	61.93	283.84	A25085TR-ND	4,000	309.65/M	66424-6	91515-1
Pin			C	A25088-ND◊	1.29	.90	66429-3	A25088CT-ND◊	61.98	284.09	A25088TR-ND◊	4,000	309.92/M	66425-7	91515-1
Socket			C	A25089-ND◊	1.80	1.26	66428-3	A25089CT-ND◊	77.02	353.00	A25089TR-ND◊	4,000	385.10/M	66424-7	91515-1
Pin			A	A25092-ND◊	1.36	.95	66429-4	A25092CT-ND◊	65.25	299.05	A25092TR-ND◊	4,000	326.24/M	66425-8	91515-1
Socket			A	A25093-ND◊	2.13	1.49	66428-4	A25093CT-ND◊	81.07	371.58	A25093TR-ND◊	4,000	405.36/M	66424-8	91515-1
Pin	30-26	.014-.030	A	A25097-ND◊	1.24	.87	66406-4	A25097CT-ND◊	65.18	298.76	A25097TR-ND◊	4,000	325.92/M	66393-8	—
Socket			A	A25098-ND◊	1.54	1.07	66405-4	A25098CT-ND◊	81.02	371.32	A25098TR-ND◊	4,000	405.08/M	66394-8	—
Pin	26-24	.035-.055	F	—	—	—	—	A1324CT-ND	32.39	148.43	A1324TR-ND	4,000	166.79/M	66106-6	58495-1
Pin			H	A31991-ND◊	.40	.28	1-66107-1	A31991CT-ND◊	33.36	152.89	A31991TR-ND◊	4,000	166.79/M	1-66106-5	58495-1
Socket			F	—	—	—	—	A1654CT-ND	51.13	234.36	A1654TR-ND	4,000	263.33/M	66108-6	58495-1
Socket			H	A31992-ND◊	.74	.52	1-66109-7	A31992CT-ND◊	52.67	241.38	A31992TR-ND◊	4,000	263.33/M	1-66108-5	58495-1
Pin			C	A25103-ND◊	.77	.54	66107-3	A25103CT-ND◊	53.67	245.97	A25103TR-ND◊	4,000	268.34/M	66106-7	58495-1
Socket			C	A25104-ND◊	.92	.64	66109-3	A25104CT-ND◊	66.69	305.68	A25104TR-ND◊	4,000	333.47/M	66108-7	58495-1
Pin			A	A1344-ND◊	.81	.57	66107-4	A1344CT-ND◊	56.49	258.93	A1344TR-ND◊	4,000	282.47/M	66106-8	58495-1
Socket			A	A1345-ND◊	.97	.68	66109-4	A1345CT-ND◊	70.22	321.82	A1345TR-ND◊	4,000	351.08/M	66108-8	58495-1
Pin	24-20	.040-.080	G	A29109-ND	1.24	.87	66103-1	A29109CT-ND	93.74	429.66	A29109TR-ND	4,000	468.72/M	66102-6	58495-1
Pin	24-20	.040-.080	F	A1322-ND	.54	.38	66103-2	—	—	—	—	—	—	66102-7	58495-1
Pin			H	A31989-ND◊	.40	.28	1-66103-8	A31989CT-ND◊	34.09	156.24	A31989TR-ND◊	4,000	170.45/M	2-66102-5	58495-1
Socket			F	A1323-ND	.64	.45	66105-2	A1323CT-ND	40.28	184.64	A1323TR-ND	4,000	207.47/M	66104-7	58495-1
Socket			H	A31990-ND◊	.47	.33	1-66105-9	A31990CT-ND◊	41.49	190.18	A31990TR-ND◊	4,000	207.47/M	3-66104-0	58495-1
Pin			C	A25107-ND◊	.77	.54	66103-3	A25107CT-ND◊	48.83	223.80	A25107TR-ND◊	4,000	244.14/M	66102-8	58495-1
Socket			C	A25108-ND◊	.92	.64	66105-3	A25108CT-ND◊	58.98	270.34	A25108TR-ND◊	4,000	294.92/M	66104-8	58495-1
Pin			A	A1342-ND◊	.81	.57	66103-4	A1342CT-ND◊	52.94	242.65	A1342TR-ND◊	4,000	264.71/M	66102-9	58495-1
Socket			A	A1343-ND◊	.97	.68	66105-4	A1343CT-ND◊	63.28	290.02	A1343TR-ND◊	4,000	316.38/M	66104-9	58495-1
Pin	24-20	.060-.120	F	—	—	—	—	A25111CT-ND	40.37	185.05	A25111TR-ND	4,000	207.92/M	66564-6	91542-1
Pin			H	A32008-ND◊	.74	.52	66566-7	A32008CT-ND◊	41.58	190.59	A32008TR-ND◊	4,000	207.92/M	1-66564-2	91542-1
Socket			F	A25007-ND	.64	.45	66565-2	A25007CT-ND	51.14	234.38	—	—	—	66563-6	91542-1
Socket			H	—	—	—	—	A32007CT-ND◊	52.67	241.41	A32007TR-ND◊	4,000	263.36/M	1-66563-1	91542-1
Pin			A	A25115-ND◊	.83	.58	66566-4	A25115CT-ND◊	57.20	262.17	A25115TR-ND◊	4,000	286.01/M	66564-8	91542-1
Socket			D	A25008-ND	.94	.66	66565-4	A25008CT-ND	70.35	322.45	A25008TR-ND	4,000	351.77/M	66563-8	91542-1
Pin	24-20	.080-.100	H	A31996-ND◊	.40	.28	1-66400-0	A31996CT-ND◊	39.53	181.20	A31996TR-ND◊	4,000	197.67/M	1-66332-4	91523-1
Socket			F	—	—	—	—	A1656CT-ND	41.42	189.82	—	—	—	66331-5	91523-1
Socket			H	A31995-ND◊	.47	.33	1-66399-0	A31995CT-ND◊	42.66	195.53	A31995TR-ND◊	4,000	213.30/M	1-66331-4	91523-1
Pin	24-20	.080-.100	G	A29110-ND	1.24	.87	66400-2	—	—	—	—	—	—	—	91523-1
Pin	24-20	.080-.100	C	A25121-ND◊	.77	.54	66400-3	A25121CT-ND◊	53.82	246.69	A25121TR-ND◊	4,000	269.12/M	66332-7	91523-1
Socket			C	A25122-ND◊	.92	.64	66399-3	A25122CT-ND◊	66.75	305.92	A25122TR-ND◊	4,000	333.74/M	66331-7	91523-1
Pin			A	A1648-ND◊	.61	.43	66400-4	A1648CT-ND◊	56.65	259.63	A1648TR-ND◊	4,000	283.23/M	66332-8	91523-1
Socket			A	A1661-ND◊	.73	.51	66399-4	A1661CT-ND◊	70.27	322.05	A1661TR-ND◊	4,000	351.33/M	66331-8	91523-1
Pin	18-16	.080-.100	F	A1649-ND	.54	.38	66099-2	A1649CT-ND	33.10	151.69	—	—	—	66098-7	58495-1
Pin			H	A31987-ND◊	.40	.28	1-66099-5	A31987CT-ND◊	34.09	156.24	A31987TR-ND◊	4,000	170.45/M	1-66098-8	58495-1
Socket			F	A1665-ND	.64	.45	66101-2	—	—	—	—	—	—	—	58495-1
Socket			H	A31988-ND◊	.47	.33	1-66101-9	A31988CT-ND◊	36.38	166.76	A31988TR-ND◊	4,000	181.92/M	1-66100-9	58495-1
Pin			C	A25123-ND◊	1.04	.73	66099-3	A25123CT-ND◊	53.76	246.40	A25123TR-ND◊	4,000	268.80/M	66098-8	58495-1
Socket			C	A25124-ND◊	.92	.64	66101-3	A25124CT-ND◊	66.77	306.05	A25124TR-ND◊	4,000	333.87/M	66100-8	58495-1
Pin			A	A1340-ND◊	.81	.57	66099-4	A1340CT-ND◊	56.65	259.63	A1340TR-ND◊	4,000	283.23/M	66098-9	58495-1
Socket			A	A16080-ND◊	.97	.68	66101-4	A16080CT-ND◊	63.02	288.83	A16080TR-ND◊	4,000	315.09/M	66100-9	58495-1
Pin	18-14	.080-.100	H	A31998-ND◊	.53	.37	1-66361-2	A31998CT-ND◊	34.09	156.24	A31998TR-ND◊	4,000	170.45/M	1-66359-4	91519-1

# Recommended for high current/vibration applications where corrosion is a problem. § Ground contacts † 1 Wirewrap ‡ 2 Wirewrap ★ 3 Wirewrap ◊ ***RoHS Compliant***

(Continued)

Contacts (Pins and Sockets) *(Cont.)*

Desc.	Wire Size AWG	Ins. Dia. Inch	Cont. Fin.	Digi-Key Part No.	Loose Pc. Price Each		AMP Part No.	Digi-Key Part No.	Cut Strip Pricing		Digi-Key Part No.	Strip Tape and Reel		AMP Part No.	AMP Tooling Part No.
					10	100			100	500		Size	Pricing		
Socket	18-14	.080-.100	F	A1321-ND	.63	.44	66360-2	A1321CT-ND	41.42	189.82	—	—	—	66358-6	91519-1
Socket			H	A31997-ND◊	.63	.44	1-66360-2	A31997CT-ND◊	40.62	186.16	A31997TR-ND◊	4,000	203.09/M	1-66358-6	91519-1
Pin			C	A25127-ND◊	.78	.54	66361-3	A25127CT-ND◊	51.31	235.18	A25127TR-ND◊	4,000	256.56/M	66359-9	91519-1
Socket			C	A25128-ND◊	1.15	.80	66360-3	A25128CT-ND◊	66.78	306.06	A25128TR-ND◊	4,000	333.89/M	66358-9	91519-1
Pin			A	A1650-ND◊	.82	.57	66361-4	A1650CT-ND◊	54.02	247.58	A1650TR-ND◊	4,000	270.09/M	1-66359-0	91519-1
Socket			A	A1341-ND◊	.91	.64	66360-4	A1341CT-ND◊	70.29	322.16	A1341TR-ND◊	4,000	351.45/M	1-66358-0	91519-1
Pin	18-14	.110-.150	F	—	—	—	—	A25129CT-ND	33.10	151.69	—	—	—	66597-1	91521-1
Pin			H	A32009-ND◊	.54	.38	66602-8	A32009CT-ND◊	34.09	156.24	A32009TR-ND◊	4,000	170.45/M	66597-8	91521-1
Socket			F	A25130-ND	.64	.45	66601-1	—	—	—	—	—	—	66598-1	91521-1
Socket			H	—	—	—	—	A32012CT-ND◊	42.66	195.53	A32012TR-ND◊	4,000	213.30/M	66598-9	91521-1
Pin			A	A25131-ND◊	.81	.57	66602-2	A25131CT-ND◊	56.75	260.08	A25131TR-ND◊	4,000	283.73/M	66597-2	91521-1
Socket			A	A25012-ND◊	.91	.64	66601-2	A25012CT-ND◊	69.55	318.75	A25012TR-ND◊	4,000	347.73/M	66598-2	91521-1
Series 1 — Crimp, Fig. 1 — Grounding Pin (make first - break last)															
Pin	24-20	.045-.070	A	A25133-ND◊	2.55	1.78	164163-2	—	—	—	—	—	—	—	58495-1
Pin	18-16	.078-.098	A	A25600-ND◊	1.80	1.26	164164-2	A25600CT-ND◊	145.68	667.69	A25600TR-ND◊	5,000	728.39/M	164161-4	58495-1
Series 1 — Solder Type, Fig. 2															
Pin	26-20	.005-.024	A	A25136-ND◊	1.29	.90	66182-1	—	—	—	—	—	—	—	—
Socket			D	A25137-ND	1.62	1.13	66183-1	—	—	—	—	—	—	—	—
Pin	18-16	.030-.055	A	A25138-ND◊	1.29	.90	66180-1	—	—	—	—	—	—	—	—
Socket			D	A25139-ND	1.62	1.13	66181-1	—	—	—	—	—	—	—	—
Series 1 — Solder Tab, Fig. 3															
Pin	—	—	B	A16081-ND	2.15	1.51	202236-1	—	—	—	—	—	—	—	—
Socket			B	A1668-ND	2.40	1.68	202237-1	—	—	—	—	—	—	—	—
Socket			J	A31983-ND◊	2.40	1.68	202237-7	—	—	—	—	—	—	—	—
Pin			H	A31982-ND◊	.92	.64	202236-5	—	—	—	—	—	—	—	—
Socket			H	A31984-ND◊	1.01	.71	202237-5	—	—	—	—	—	—	—	—
Series 1 — Wire Wrap, Fig. 4															
Pin	—	—	H	A32000-ND†◊	.56	.39	6-66460-5	—	—	—	—	—	—	—	—
Socket			H	A32005-ND†◊	.69	.48	5-66461-4	—	—	—	—	—	—	—	—
Pin			F	A29350-ND‡	.49	.33	66460-2	—	—	—	—	—	—	—	—
Socket			F	A29345-ND‡	.61	.41	66461-2	—	—	—	—	—	—	—	—
Pin			H	A32001-ND★◊	.56	.39	6-66460-6	—	—	—	—	—	—	—	—
Socket			F	A29349-ND★	.61	.41	66461-3	—	—	—	—	—	—	—	—
Pin	—	—	G	A32002-ND†◊	1.30	.91	6-66460-2	—	—	—	—	—	—	—	—
Socket			G	A32006-ND†◊	.99	.70	5-66461-5	—	—	—	—	—	—	—	—
Pin			G	A29342-ND‡	.76	.52	66460-8	—	—	—	—	—	—	—	—
Pin			G	A32003-ND‡◊	.86	.60	6-66460-3	—	—	—	—	—	—	—	—
Socket			G	A29347-ND‡	.91	.61	66461-8	—	—	—	—	—	—	—	—
Pin			G	A32004-ND★◊	.84	.59	6-66460-4	—	—	—	—	—	—	—	—
Socket			G	A29348-ND★	.89	.60	66461-9	—	—	—	—	—	—	—	—
Series 2 — Crimp, Fig. 5															
Pin	28-24	.040 max.	A	A1630-ND◊	.22	.15	66507-9	—	—	—	—	—	—	—	91503-1
Socket			A	A1632-ND◊	.24	.17	66505-9	—	—	—	—	—	—	—	91503-1
Pin			D	—	—	—	—	A25000CT-ND	6.94	28.91	—	—	—	3-66507-1	91503-1
Socket			D	A31986-ND◊	.29	.21	1658538-1	A31986CT-ND◊	10.49	48.10	A31986TR-ND◊	10,000	47.23/M	1658538-3	91503-1
Pin	24-20	.050 max.	A	A1679-ND◊	.20	.18	66506-9	—	—	—	—	—	—	—	91503-1
Socket			A	A1680-ND◊	.21	.19	66504-9	—	—	—	—	—	—	—	91503-1
Pin			D	A1008-ND	.20	.18	1-66506-0	—	—	—	—	—	—	—	91503-1
Socket			A	A1009-ND◊	.21	.19	1-66504-0	—	—	—	—	—	—	—	91503-1
Socket			D	—	—	—	—	A23606CT-ND	8.24	34.35	—	—	—	5-66504-6	91503-1
Socket			D	A31985-ND◊	.20	.14	1658537-2	A31985CT-ND◊	7.97	36.55	A31985TR-ND◊	10,000	35.89/M	1658537-1	91503-1
Series 2 — Solder, Fig. 6															
Pin	—	—	D	A1028-ND	.40	.25	66570-3	—	—	—	—	—	—	—	—
Socket			D	A1029-ND	.32	.29	66569-3	—	—	—	—	—	—	—	—
Series 3 — Crimp, Fig. 7															
Pin	16-12	.135-.160	F	A16021-ND	3.64	2.55	66261-1	—	—	—	—	—	—	—	90382-2
Pin			H	A31994-ND◊	2.60	1.82	66261-5	—	—	—	—	—	—	—	90382-2
Socket			F	A16025-ND	6.62	4.62	66740-8	—	—	—	—	—	—	—	90382-2
Socket			H	A32010-ND◊	4.73	3.30	2-66740-1	—	—	—	—	—	—	—	90382-2
Pin			D	A16022-ND	6.52	4.56	66261-2	—	—	—	—	—	—	—	90382-2
Socket			D	A16026-ND	8.06	5.63	66740-6	—	—	—	—	—	—	—	90382-2
Pin			D	A25031-ND§	7.40	5.17	66262-2	—	—	—	—	—	—	—	90382-2
Pin			E	A25032-ND#	3.27	2.29	66261-4	—	—	—	—	—	—	—	90382-2
Socket			E	A25033-ND#	5.52	3.85	66740-2	—	—	—	—	—	—	—	90382-2
Pin			E	A25034-ND§#	6.80	4.75	66262-4	—	—	—	—	—	—	—	90382-2
Pin	10	.190-.220	H	A31993-ND◊	2.60	1.82	66259-5	—	—	—	—	—	—	—	90384-1
Socket			H	A32011-ND◊	6.15	4.29	2-66741-1	—	—	—	—	—	—	—	90384-1
Pin			D	A16024-ND	6.70	4.68	66259-2	—	—	—	—	—	—	—	90384-1
Socket			D	A16028-ND	8.92	6.23	66741-6	—	—	—	—	—	—	—	90384-1
Pin			E	A25035-ND#	3.27	2.29	66259-4	—	—	—	—	—	—	—	90384-1
Socket			E	A25036-ND#	7.44	5.20	66741-2	—	—	—	—	—	—	—	90384-1

# Recommended for high current/vibration applications where corrosion is a problem. § Ground contacts † 1 Wirewrap ‡ 2 Wirewrap ★ 3 Wirewrap ◊ ***RoHS Compliant***

tyco Electronics AMP

Series 1 Coaxial, Subminiature, Precision Formed, Crimp

Outer Shell: Brass per MIL-C-50

Center Conductor: Beryllium copper per QQ-C-553 (Pin); Brass per QQ-B-626 (Socket)

Inner Dielectric: Polypropylene

Retention Spring: Stainless steel per QQ-S-766

Ferrule: Tin-lead per MIL-T-10727 over copper per QQ-C-576

Contact Finish: Gold/nickel; gold/copper (outer shell and socket center conductor: 30μ gold over 50μ nickel; pin center conductor: 30μ gold over 100μ copper)

NOTE: A ferrule is required for each pin and socket.

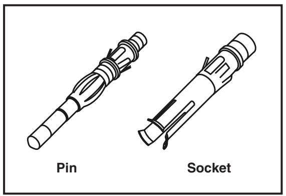

Coaxial Cable

Description	Cable Size RG/U	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
		Contacts				
Pin	178, 196 196 (Double Braid)	A25144-ND	18.11	15.70	10.97	226537-2
Socket	178, 196 196 (Double Braid)	A25147-ND	15.30	13.26	9.27	51565-2
Pin	174, 188, 316 174 (Double Braid) 179, 187 187 (Double Braid), 161	A25145-ND	12.49	10.83	7.56	226537-1
Socket	174, 188, 316 174 (Double Braid) 179, 187 187 (Double Braid), 161	A25148-ND	11.59	10.05	7.02	51565-1
		Ferrules				
178, 196 RG/U		A25150-ND	—	.97	.68	1-332057-0
174, 188, 316, 179, 187, 161 RG/U		A25151-ND	—	.79	.56	1-332056-0

Twisted Pair and Shielded Wire

Description	Cable Size RG/U	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
		Contacts				
Pin	30, 28 (Twisted Pair, Solid) 28 (Twisted Pair, Stranded .005 Dia.) 26 (Twisted Pair, Solid or Stranded .063 Dia.)	A25146-ND	15.79	13.69	9.56	226537-3
Socket	30, 28 (Twisted Pair, Solid) 28 (Twisted Pair, Stranded .005 Dia.) 26 (Twisted Pair, Solid or Stranded .063 Dia.)	A25149-ND	19.65	17.03	11.90	51565-3
Pin	26 (Shielded, .075 Max. O.D.)	A25145-ND	12.49	10.83	7.56	226537-1
Socket	26 (Shielded, .075 Max. O.D.)	A25148-ND	11.59	10.05	7.02	51565-1
		Ferrule				
Use for Twisted Pair and Shielded Wire		A25150-ND	—	.97	.68	1-332057-0

Series 1 Signal, Type II, Screw Machined, Crimp

Pin Diameter: 1.57

Test Current: 13A

Contact Body: Brass

Retention Spring: Stainless steel

Contact Finish: 30μ gold over 50μ nickel. Gold thickness controlled on socket O.D.

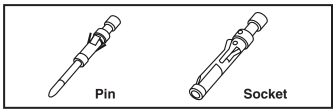

Description	Wire Size AWG	Insulation Dia. Inch	Required Hand Tool	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
				Crimp				
Pin	28-24	.035-.055	91538-1	A25110-ND	4.01	3.48	2.43	201611-1
Socket				A25112-ND	4.46	3.87	2.71	201613-1
Pin	24-20	.040-.062	91538-1	A25114-ND	3.56	3.09	2.16	201578-1
Socket				A25116-ND	2.93	2.54	1.78	201580-1
Pin		.055-.088	91538-1	A25132-ND	2.38	2.07	1.45	201330-1
Socket				A25541-ND	4.01	3.48	2.43	201328-1
Pin	18-16	.080-.105	90136-1	A25542-ND	3.77	3.28	2.29	202507-1
Socket				A25543-ND	3.79	3.29	2.30	202508-1
Pin		No Ins. Support	91539-1	A25540-ND	3.89	3.37	2.36	200336-1
Socket				A25539-ND	4.09	3.55	2.48	200333-1
Pin		No Ins. Support	91539-1	A25140-ND†	5.33	4.62	3.23	204219-1
Pin	14	No Ins. Support	91539-1	A25141-ND	2.53	2.20	1.54	201570-1
Socket				A25142-ND	2.90	2.52	1.76	201568-1
Pin		No Ins. Support	—	A25143-ND*†	9.53	8.26	5.77	212618-1
				Hand Tools				
Certi-Crimp Tool with Dies				A29951-ND	764.78/1			91538-1
				A29952-ND	1476.26/1			90136-1
				A29953-ND	551.57/1			91539-1
Pro-Crimper II with Dies				A30235-ND	645.39/1			58541-1

* Grounding pin is used to provide a make-first/break-last condition when mating and unmating connector halves. † Pin length is .630 on these two pins.

.125 POWERBAND Contacts for Sealed Connectors

Test Current: 45A

Pin Diameter: .125

Contact Body: Copper with beryllium copper spring

Contact Finish:

A: Post plated 30μ in mating area with 5μ minimum gold on remainder of contact, all over 100μ minimum nickel

B: Post plated 200μ silver in mating area with 5μ minimum gold on remainder of contact, all over 100μ minimum nickel

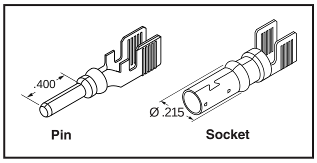

Description	Wire Size AWG	Contact Finish	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Pin	14-12	A	A25066-ND	5.40	4.68	213845-4
Socket			A25067-ND	8.44	7.32	213847-4
Pin		B	A25068-ND	4.39	3.81	213845-3
Socket			A25069-ND	6.94	6.02	213847-3
Pin	10-8	A	A25070-ND	5.40	4.68	213841-4
Socket			A25071-ND	8.44	7.32	213843-4
Pin		B	A25072-ND	4.39	3.81	213841-3
Socket			A25073-ND	6.94	6.02	213843-3

Tools

Description	Digi-Key Part No.	Price Each	AMP Part No.
Series 1 Contacts			
Pro-Crimper III with Die Set, 28-24, 24-20, 18-16 AWG	A9920-ND	145.50	58495-1
Pro-Crimper III Hand Tool without Dies	A9996-ND	66.00	354940-1
Die Set for Pro-Crimper III, 28-24, 24-20, 18-16 AWG	A9919-ND	103.50	58495-2
Certi-Crimp Tool, 26-24, 24-20 AWG	A9951-ND	519.12	91515-1
Certi-Crimp Tool, 24-20, 18-16 AWG	A9839-ND	519.12	91523-1
Certi-Crimp Tool, 24-20, 18-16 AWG	A9841-ND	468.14	91505-1
Certi-Crimp Tool, 18-14 AWG	A31204-ND	551.57	91519-1
Series 1 and MIL-C-5015 Contacts			
Certi-Crimp Tool, 24-20 AWG	A9941-ND	551.57	91542-1
Certi-Crimp Tool, 18-16, 14 AWG	A9009-ND	551.57	91521-1
Contact Extraction Tool	A1329-ND	12.60	305183

Description	Digi-Key Part No.	Price Each	AMP Part No.
Series 2 Contacts			
Pro-Crimper III with Die Set, 28-24, 24-20 AWG	A9990-ND	145.50	58448-2
Die Set for Pro-Crimper III, 28-24, 24-20 AWG	A9814-ND	111.00	58448-3
Certi-Crimp Tool, 28-24, 24-20 AWG	A31205-ND	491.31	91503-1
Contact Insertion / Extraction Tool	A1010-ND	5.93	91067-2
Pro-Crimper III Hand Tool without Dies	A9996-ND	66.00	354940-1
Series 3 Contacts			
Certi-Crimp Tool, 16-12 AWG	A9911-ND	655.08	90382-2
Certi-Crimp Tool, 10 AWG	A9910-ND	655.08	90384-1
Contact Extraction Tool	A9912-ND	105.45	91019-3
Coaxial			
Die Set for Pro-Crimper III RG-174/188/316	A30529-ND	569.64	91911-3
Certi-Crimp Tool RG-178/196	A25152-ND	4542.30	69656-2
Certi-Crimp Tool, 26 AWG Shielded	A25153-ND	4542.30	69656-3

Shielded DIN Connectors

Features: • Crimp, snap-in contacts • Designed for ease of post molding • Pre-molded cord guard • Tin-plated brass contacts • Ferrule crimps onto shield for reliable termination • Meets or exceeds DIN specification 41524 for 3- and 5-position plugs and DIN 45322 for 6-position plugs • UL recognized under the Component Program, File No. E28476 • CSA certified, File No. LR-35510

Housings: Black nylon 94V-0

Ferrule and Shield: Brass, tin-plated

Cord Guard: Thermoplastic polymer, black

Contacts: Brass, tin-plated

Pin Contacts: Copper alloy; .00050" tin over .000100" nickel plating

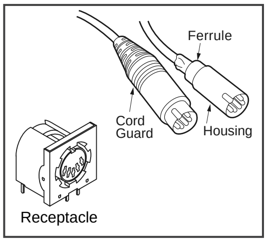

Description	Digi-Key Part No.	Pricing 1	25	AMP Part No.
6-Position Housing	A1653-ND†	2.24	52.94	212437-4
6-Position Housing	A32317-ND†◊	2.09	49.44	9-212437-1
8-Position Housing	A1655-ND†	3.00	70.88	212437-6
8-Position Housing	A32318-ND†◊	2.81	66.50	9-212437-2
Ferrule, 5.08mm-6.35mm Cable Diameter	A1657-ND	1.35	27.00	212435-8
Cord Guard, 4.19mm-6.35mm Cable Diameter	A1659-ND	1.76	40.85	212800-1
5-Position Receptacle, Right Angle	A1663-ND	3.40	80.50	212044-1
5-Position Receptacle, Right Angle	A32314-ND◊	2.94	69.56	5212044-1
6-Position Receptacle, Right Angle	A32315-ND◊	3.63	85.75	5212045-1
8-Position Receptacle, Right Angle	A32316-ND◊	3.92	92.75	5212047-1
Pin Contact, 28-22 AWG	A1667-ND	9.12/10	63.68/100	66728-5
Contact Insertion Tool	A9998-ND	18.63	—	91002-1
Contact Extraction Tool	A9997-ND	895.05	—	91144-1

† Ferrules, contacts and cord guards sold separately ◊ ***RoHS Compliant***

Audio / Instrument Connectors (DIN Type)

Audio/Instrument connectors are economical, quick connect/disconnect attachments for audio and instrument cable having small, flexible, stranded wire conductors. These versatile connectors are ideally suited for application in citizens' band (CB) radios, test equipment, computer input terminals and industrial control equipment.

Material & Finish: Plug/Receptacle: Thermoplastic, black Contacts: Brass, plated Tin over nickel

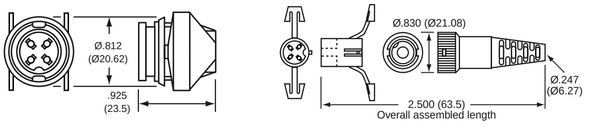

Receptacle Housing **Contact Housing** **Cord Guard**

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	50	AMP Part No.
		Plug Assemblies				
5	Contact Housing	A25075-ND	1.19	1.11	.97	207488-1
6	Contact Housing	A25076-ND	2.26	2.10	1.83	207332-1
—	Cord Guard	A25077-ND	1.37	1.28	1.12	207314-1
		Receptacle				
5	Receptacle Housing	A25079-ND	2.64	2.45	2.14	207487-1
6	Receptacle Housing	A25080-ND	2.47	2.29	2.01	207333-1
		Crimp Contacts — 22-28 AWG				
—	Pin, Diameter .058" (1.47mm), Loose	A25082-ND	.34	.32	.28	207438-3
—	Socket, Loose	A25083-ND	.34	.32	.28	207437-3
		Tool				
—	Contact Extraction Tool	A25081-ND	49.95	—	—	91136-1

MIL-C-5015 Style Circular Plastic Connectors - Shell Size 20-14

Fig. 1

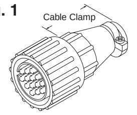

Reverse Sex

Fig. 2

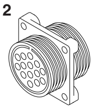

Reverse Sex

UL File No. E28476 CSA File No. LR7189

Standard Sex: Pin contacts in receptacle housings; socket contacts in plug housings.
Reverse Sex: Socket contacts in receptacle housings; pin contacts in plug housings.

Fig.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
	Plug Kit, Unassembled				
1	Reverse Sex w/o Cable Clamp Standard Sex w/o Cable Clamp	A25015-ND A25016-ND	10.33 15.87	9.58 14.71	213571-2 213652-1
	Cable Clamps - Shell Size 17				
1	O.D. .453" (11.51mm), for use with 213652-1 O.D. .703" (17.86mm), for use with 213571-2	A1332-ND A1689-ND	3.40 3.87	3.16 3.60	206070-1 206322-1
	Receptacle, Square Flange				
2	Reverse Sex Standard Sex	A25017-ND A25018-ND	9.12 8.98	8.46 8.33	213570-1 213651-1

Contacts for MIL-C-5015 Connectors

Crimp Style, Type III+

Contact Finish: A: 30μ" gold on the electrical engagement area over 50μ" nickel **B:** Tin **C:** 30μ" selective gold over 30μ" nickel

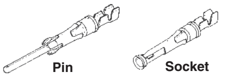

Pin **Socket**

Desc.	AWG	Cont. Fin.	Digi-Key Part No.	Loose Pc. Price Each 10	100	AMP Part No.	Digi-Key Part No.	Cut Strip Pricing 100	Tape & Reel* 4,000	AMP Part No.
			Insulation Diameter Range Inch (mm): .060-.135 (1.52-3.43)							
Pin	24-20	B	—	—	—	—	A25009CT-ND	47.67	232.17/M	213605-1
Socket	24-20	B	A25007-ND	.64	.45	66565-2	A25007CT-ND	51.14	—	66563-6
Socket	24-20	A	A25008-ND	.94	.66	66565-4	A25008CT-ND	70.35	351.77/M	66563-8
			Insulation Diameter Range Inch (mm): .110-.150 (2.79-3.81)							
Pin	18-14	B	—	—	—	—	A25011CT-ND	47.67	232.17/M	213603-1
Socket	18-14	B	A25130-ND	.64	.45	66601-1	—	—	—	—
Pin	18-14	A	A25131-ND	.81	.57	66602-2	—	—	—	—

* For Tape and Reel part number, change CT-ND to TR-ND.

CPC Connector Accessories, Metal-Shell

Cable clamps are used to prevent excessive strain on cable or wire from being transmitted to the contacts inside the connector housings.

Material: Zinc alloy, nickel plated

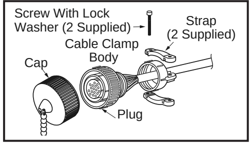

Shell Size	Cable Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
		Cable Clamps			
14 22 28	.225 - .562 (5.71 - 14.27) .325 - .750 (8.26 - 19.05) .450 - .938 (11.43 - 23.83)	A1626-ND A1627-ND A1628-ND	10.35 16.65 23.55	9.60 15.43 21.84	208945-5 208945-7 208945-8
		Protective Caps			
14 22 28	— — —	A25047-ND A1633-ND A1634-ND	16.56 32.10 28.72	15.36 29.76 26.62	213823-2 211903-1 211904-1

Circular Metal Shell Connectors

Note: Shell Only Material and Finish: Receptacle: Insert: Black thermoplastic; **Outer Shell:** Aluminum alloy, zinc plated or unplated **Plug: Insert:** Black thermoplastic **Outer Shell and Coupling Ring:** Aluminum alloy, zinc plated **Retainer Ring:** Stainless steel

Note: Contacts (pins and sockets) must be ordered separately.

Component Diameter	
Arrangement/ Shell Size	**Overall Dia. Inch (mm)**
14	1.225 (31.12)
22	1.750 (44.45)
28	2.170 (55.12)

Series 1 & 2

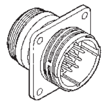

* Standard Sex Receptacle with Pins

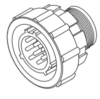

† Reverse Sex (Plug/Pins)

Series 3

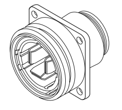

* Standard Sex Square Flange Receptacle

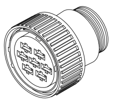

* Standard Sex Plug

Series 4

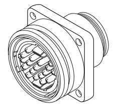

* Standard Sex Square Flange Receptacle

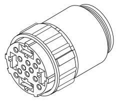

* Standard Sex Plug

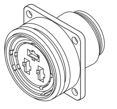

† Reverse Sex Square Flange Receptacle

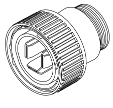

† Reverse Sex Plug

* Standard Sex: Pin contacts in receptacle housings; socket contacts in plug housings.
† Reverse Sex: Socket contacts in receptacle housings; pin contacts in plug housings.

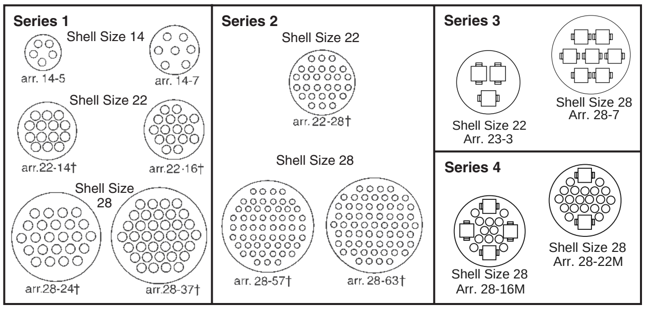

Arrangement No.	Sex	Description (Shell Only)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
			Series 1			
14-5	Standard	Receptacle-Sq. Flanged Plug	A1600-ND A1601-ND	23.04 55.15	21.36 51.11	208719-1 208718-1
	Reverse	Receptacle-Sq. Flanged Plug	A1602-ND A1603-ND	26.20 40.94	24.29 37.95	208721-1 208720-1
14-7	Standard	Receptacle-Sq. Flanged Plug	A1604-ND A1605-ND	23.99 38.29	22.23 35.50	208715-1 208714-1
	Reverse	Receptacle-Sq. Flanged Plug	A1606-ND A1607-ND	23.99 39.28	22.23 36.41	208717-1 208716-1
22-14	Reverse	Receptacle-Sq. Flanged Plug Plug with Tetraseals	A1608-ND A1609-ND A25051-ND‡	25.67 33.70 46.99	23.79 31.24 43.55	208487-1 208486-1 208486-3
22-16	Standard	Receptacle-Sq. Flanged Plug	A1610-ND A1611-ND	28.66 32.41	26.57 30.04	208489-1 208488-1
28-24	Standard	Receptacle-Sq. Flanged Plug	A1612-ND A1613-ND	36.10 45.57	33.46 42.24	208459-1 208457-1
28-37	Standard	Receptacle-Sq. Flanged Plug	A1614-ND A1615-ND	36.06 45.57	33.43 42.24	208471-1 208470-1
	Reverse	Receptacle-Sq. Flanged Plug	A1616-ND A1617-ND	32.84 39.73	30.44 36.83	208473-1 208472-1
			Series 2			
22-28	Standard	Receptacle-Sq. Flanged Plug	A1618-ND# A1619-ND	21.83 87.35	20.24 80.96	208491-1 208490-1
	Reverse	Receptacle-Sq. Flanged Plug	A1620-ND# A1621-ND	20.97 96.92	19.44 89.84	208493-1 208492-1
28-57	Reverse	Receptacle-Sq. Flanged Plug	A1622-ND# A1623-ND	32.06 129.54	29.72 120.07	208475-1 208474-1
28-63	Standard	Receptacle-Sq. Flanged Plug	A1624-ND# A1625-ND	32.06 121.65	29.72 112.75	208477-1 208476-1
			Series 3			
22-3	Standard	Receptacle-Sq. Flanged Plug	A16070-ND A16071-ND	31.34 45.43	29.06 42.11	208495-1 208494-1
	Reverse	Plug Receptacle-Sq. Flanged	A25052-ND A30541-ND	41.66 22.00	38.61 20.39	208496-1 208497-1
28-7	Standard	Receptacle-Sq. Flanged Plug	A16072-ND A16073-ND	28.58 46.04	26.49 42.68	208483-1 208482-1
28-7	Reverse	Receptacle-Sq. Flanged Plug	A16074-ND A16075-ND	35.96 40.39	33.33 37.43	208485-1 208484-1
			Series 4			
28-16	Standard	Receptacle-Sq. Flanged Plug	A16076-ND A16077-ND	36.86 53.24	34.17 49.35	208479-1 208478-1
28-22	Standard	Receptacle-Sq. Flanged Plug	A16078-ND A16079-ND	36.86 50.88	34.17 47.16	208481-1 208480-1

# Aluminum alloy, unplated ‡ Tetraseal provides splash-proof sealing between mating metal shells

Miniature DIN Connectors

APPLICATIONS: Because of their compact size and durable design, mini-DIN connectors are ideal for signal applications where space is at a premium. A variety of configurations including vertical, horizontal and in-line models allows for most requirements. Their concentric, cylindrical ground shell make these connectors an excellent choice where EMI/RFI is a concern. Typical applications include computers, peripheral devices, office, audio and video equipment. **GENERAL SPECIFICATIONS: • Rating:** 100VAC 1A maximum, 12VDC 2A maximum **• Insulation Resistance:** minimum 50MEGΩ @ 250VDC **• Voltage Withstand:** 250VAC, 1 minute **• Contact Resistance:** Pins - 30mΩ maximum, Shell - 50mΩ maximum (All accessories included)

No. of Pos.	Digi-Key Part No.	Price Each			CUI Inc. Part No.
		1	10	100	
Shielded Right Angle Receptacles					
3	CP-2230-ND	.99	.86	.66	MD-30SM
4	CP-2240-ND	1.02	.89	.68	MD-40SM
5	CP-2250-ND	1.05	.91	.70	MD-50SM
6	CP-2260-ND	1.11	.97	.74	MD-60SM
7	CP-2270-ND	1.23	1.07	.82	MD-70SM
8	CP-2280-ND	1.32	1.15	.88	MD-80SM
9	CP-2290-ND	1.65	1.43	1.10	MD-90SM
Slim Shielded Right Angle PCB Receptacles					
4	CP-2245-ND	1.44	1.25	.96	MD2-40ST
6	CP-2267-ND	1.53	1.33	1.02	MD2-60ST
SMT Slim Shielded Right Angle Receptacles					
4	CP-3145-ND	1.65	1.43	1.10	MD2-40ST-SMT
6	CP-3167-ND	1.74	1.51	1.16	MD2-60ST-SMT
Right Angle PCB Mount Receptacles					
3	CP-2430-ND	.78	.68	.52	MD-30S
4	CP-2440-ND	.81	.71	.54	MD-40S
5	CP-2450-ND	.86	.75	.57	MD-50S
6	CP-2460-ND	.90	.78	.60	MD-60S
7	CP-2470-ND	1.02	.89	.68	MD-70S
8	CP-2480-ND	1.11	.97	.74	MD-80S
9	CP-2490-ND	1.53	1.33	1.02	MD-90S
Shielded Receptacles with Switch					
3	CP-3030-ND	2.01	1.75	1.34	MD-30SMW
4	CP-3040-ND	2.10	1.82	1.40	MD-40SMW
5	CP-3050-ND	2.19	1.90	1.46	MD-50SMW
6	CP-3060-ND	2.31	2.01	1.54	MD-60SMW
7	CP-3070-ND	2.40	2.08	1.60	MD-70SMW
8	CP-3080-ND	2.46	2.14	1.64	MD-80SMW
Shielded Receptacles with Kinked Pins					
3	CP-4030-ND	.99	.86	.66	MD-30SMK
4	CP-4040-ND	1.02	.89	.68	MD-40SMK
5	CP-4050-ND	1.05	.91	.70	MD-50SMK
6	CP-4060-ND	1.11	.97	.74	MD-60SMK
7	CP-4070-ND	1.23	1.07	.82	MD-70SMK
8	CP-4080-ND	1.32	1.15	.88	MD-80SMK
Shielded Receptacles with Ground Tabs					
3	CP-5030-ND	1.32	1.15	.88	MD-30SG
4	CP-5040-ND	1.35	1.17	.90	MD-40SG
5	CP-5050-ND	1.38	1.20	.92	MD-50SG
6	CP-5060-ND	1.44	1.25	.96	MD-60SG
8	CP-5080-ND	1.83	1.59	1.22	MD-80SG
Shielded Receptacles with Ground Tabs and Kinked Pins					
3	CP-6030-ND	1.32	1.15	.88	MD-30SGK
4	CP-6040-ND	1.35	1.17	.90	MD-40SGK
5	CP-6050-ND	1.38	1.20	.92	MD-50SGK
6	CP-6060-ND	1.44	1.25	.96	MD-60SGK
8	CP-6080-ND	1.83	1.59	1.22	MD-80SGK
Vertical PCB Mount Receptacles					
3	CP-2730-ND	1.02	.89	.68	MD-30SV
4	CP-2740-ND	1.08	.94	.72	MD-40SV
5	CP-2750-ND	1.14	.99	.76	MD-50SV
6	CP-2760-ND	1.17	1.02	.78	MD-60SV
8	CP-2780-ND	1.29	1.12	.86	MD-80SV
Vertical PCB Mount Threaded Receptacles with Hex Nut					
3	CP-2830-ND	1.41	1.23	.94	MD-30CV
4	CP-2840-ND	1.47	1.28	.98	MD-40CV
5	CP-2850-ND	1.50	1.30	1.00	MD-50CV
6	CP-2860-ND	1.56	1.36	1.04	MD-60CV
8	CP-2880-ND	1.65	1.43	1.10	MD-80CV
In-Line Plugs					
3	CP-2030-ND	1.05	.91	.70	MD-30
4	CP-2040-ND	1.32	1.15	.88	MD-40
5	CP-2050-ND	1.38	1.20	.92	MD-50
6	CP-2060-ND	1.20	1.04	.80	MD-60
7	CP-2070-ND	1.50	1.30	1.00	MD-70
8	CP-2080-ND	1.56	1.36	1.04	MD-80
9	CP-2090-ND	1.98	1.72	1.32	MD-90
In-Line Receptacles					
3	CP-2130-ND	1.23	1.07	.82	MD-30J
4	CP-2140-ND	1.29	1.12	.86	MD-40J
5	CP-2150-ND	1.56	1.36	1.04	MD-50J
6	CP-2160-ND	1.62	1.41	1.08	MD-60J
7	CP-2170-ND	1.47	1.28	.98	MD-70J
8	CP-2180-ND	1.53	1.33	1.02	MD-80J
9	CP-2190-ND	1.98	1.72	1.32	MD-90J
Crimp Pin	CP-9999-ND	—	.09	.05	T-0006

Right Angle Receptacle

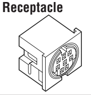

Slim Shielded Rt Angle Receptacle

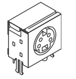

SMT Slim Shielded Rt Angle Receptacle

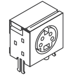

Shielded Right Angle Receptacle

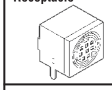

Shielded with Switch

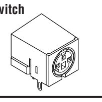

Shielded with Kinked Pins

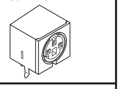

Shielded with Ground Tabs

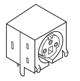

Shielded with GND Tabs and Kinked Pins

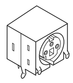

Verticle, PCB Mount

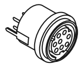

Verticle, PCB Threaded with Hex Nut

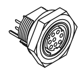

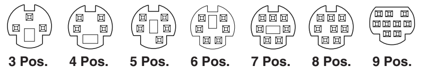

In-Line Plug

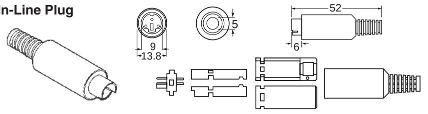

In-Line Receptacle

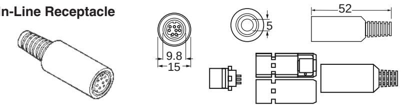

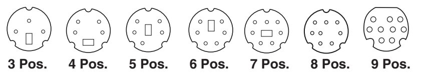

Mini-DIN Panel Mount Connectors

Panel Mount Receptacle, Metal

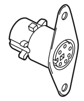

Panel Mount Receptacle, Plastic

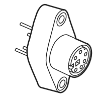

Panel Mount Receptacle, with 4" Lead Wires

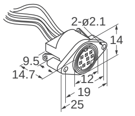

No. of Pos.	Digi-Key Part No.	Price Each			CUI Inc. Part No.
		1	10	100	
Panel Mount Mini-DIN Connectors — Metal					
3	CP-2530-ND	1.23	1.07	.82	MD-30SN
4	CP-2540-ND	1.29	1.12	.86	MD-40SN
5	CP-2550-ND	1.35	1.17	.90	MD-50SN
6	CP-2560-ND	1.41	1.23	.94	MD-60SN
7	CP-2570-ND	1.47	1.28	.98	MD-70SN
8	CP-2580-ND	1.53	1.33	1.02	MD-80SN
9	CP-2590-ND	1.62	1.41	1.08	MD-90SN
Panel Mount Mini-DIN Connectors — Plastic					
3	CP-2630-ND	1.32	1.15	.88	MD-30SP
4	CP-2640-ND	1.59	1.41	1.06	MD-40SP
5	CP-2650-ND	1.44	1.25	.96	MD-50SP
6	CP-2660-ND	1.50	1.30	1.00	MD-60SP
7	CP-2670-ND	1.56	1.39	1.04	MD-70SP
8	CP-2680-ND	1.62	1.41	1.08	MD-80SP
Panel Mount Mini-DIN Connectors with 4" Lead Wires (26AWG)					
3	CP-2930-ND	1.65	1.43	1.10	MD-30PL100
4	CP-2940-ND	1.74	1.51	1.16	MD-40PL100
5	CP-2950-ND	1.89	1.64	1.26	MD-50PL100
6	CP-2960-ND	1.98	1.72	1.32	MD-60PL100
8	CP-2980-ND	2.19	1.90	1.46	MD-80PL100

Circular DIN Connectors

APPLICATIONS: Circular DIN connectors combine low contact resistance with relatively high ampacity which make them an excellent choice for signal or power applications. Ideal for use with computers, peripheral devices, office equipment, power supplies, etc., their low cost and compact, durable design have made them a proven value.

GENERAL SPECIFICATIONS: • Ratings: 100VAC 2A maximum **• Insulation Resistance:** minimum 100MEGΩ @ 500VDC **• Voltage Withstand:** 1000VAC, 1 minute **• Contact Resistance:** Pins - 10mΩ @ maximum, Shell - 50mΩ maximum (All accessories included)

No. of Pos.	Digi-Key Part No.	Price Each			CUI Inc. Part No.
		1	10	100	
Panel Mount Receptacles					
3	CP-1230-ND	1.20	1.04	.80	SD-30SN
4	CP-1240-ND	1.26	1.10	.84	SD-40SN
5	CP-1250-ND	1.29	1.12	.86	SD-50SN
6	CP-1260-ND	1.35	1.17	.90	SD-60SN
7	CP-1270-ND	1.38	1.20	.92	SD-70SN
8	CP-1280-ND	1.44	1.25	.96	SD-80SN
Panel Mount Locking Receptacles					
3	CP-1233-ND	2.48	2.15	1.66	SD-30LS
4	CP-1234-ND	2.62	2.28	1.75	SD-40LS
5	CP-1235-ND	2.76	2.40	1.85	SD-50LS
6	CP-1236-ND	2.91	2.52	1.94	SD-60LS
7	CP-1237-ND	3.05	2.65	2.04	SD-70LS
8	CP-1238-ND	3.20	2.78	2.14	SD-80LS
Vertical PCB Mount Receptacles					
3	CP-3130-ND	.88	.77	.59	SD-30BV
5	CP-3150-ND	.93	.81	.62	SD-50BV
6	CP-3160-ND	.96	.83	.64	SD-60BV
7	CP-3170-ND	.99	.86	.66	SD-70BV
8	CP-3180-ND	1.04	.90	.69	SD-80BV
Right Angle Receptacles					
3	CP-2330-ND	.69	.60	.46	SDS-30J
4	CP-2340-ND	.72	.63	.48	SDS-40J
5	CP-2350-ND	.72	.63	.48	SDS-50J
6	CP-2360-ND	1.08	.94	.72	SDS-60J
7	CP-2370-ND	1.20	1.04	.80	SDS-70J
8	CP-2380-ND	1.32	1.15	.88	SDS-80J
13	CP-2313-ND	2.85	2.47	1.90	SDD-130J
Right Angle Front Shielded Receptacles					
3	CP-7030-ND	.75	.65	.50	SDF-30J
4	CP-7040-ND	.90	.78	.60	SDF-40J
5	CP-7050-ND	.90	.78	.60	SDF-50J
6	CP-7060-ND	1.23	1.07	.82	SDF-60J
7	CP-7070-ND	1.32	1.15	.88	SDF-70J
8	CP-7080-ND	1.50	1.30	1.00	SDF-80J
13	CP-3313-ND	2.97	2.58	1.98	SDF-130J
Right Angle Surface Mount Receptacles					
4	CP-1000-ND	1.26	1.10	.84	SDS-40J-SMT
8	CP-1001-ND	1.53	1.33	1.02	SDS-80J-SMT
In-Line Plugs					
3	CP-1030-ND	1.14	.99	.76	SD-30
4	CP-1040-ND	1.17	1.02	.78	SD-40
5	CP-1050-ND	1.23	1.07	.82	SD-50
6	CP-1060-ND	1.26	1.10	.84	SD-60
7	CP-1070-ND	1.32	1.15	.88	SD-70
8	CP-1080-ND	1.35	1.17	.90	SD-80
13	CP-1013-ND	1.98	1.72	1.32	SD-130
In-Line Locking Plugs					
3	CP-1033-ND	3.41	2.96	2.28	SD-30LP
4	CP-1034-ND	3.55	3.08	2.37	SD-40LP
5	CP-1035-ND	3.73	3.24	2.49	SD-50LP
6	CP-1036-ND	3.88	3.36	2.59	SD-60LP
7	CP-1037-ND	4.02	3.49	2.68	SD-70LP
8	CP-1038-ND	4.16	3.61	2.78	SD-80LP
In-Line Right Angle Plugs					
3	CP-1330-ND	2.28	1.98	1.52	SDR-30
5	CP-1350-ND	2.49	2.16	1.66	SDR-50
6	CP-1360-ND	2.55	2.21	1.70	SDR-60
7	CP-1370-ND	2.73	2.37	1.82	SDR-70
8	CP-1380-ND	2.82	2.45	1.88	SDR-80
In-Line Receptacles					
3	CP-1130-ND	1.14	.99	.76	SD-30J
4	CP-1140-ND	1.29	1.12	.86	SD-40J
5	CP-1150-ND	1.32	1.15	.88	SD-50J
6	CP-1160-ND	1.35	1.17	.90	SD-60J
7	CP-1170-ND	1.38	1.20	.92	SD-70J
8	CP-1180-ND	1.41	1.23	.94	SD-80J
13	CP-1113-ND	3.45	2.99	2.30	SD-130J

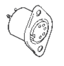

Panel Mount Receptacle

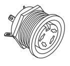

Panel Mount Locking Receptacle

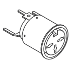

Verticle PCB Mount Recept.

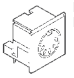

Rt Angle Receptacle

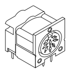

Rt Angle Front Shielded Receptacle

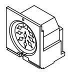

Rt Angle SMT Receptacle

In-Line Plug

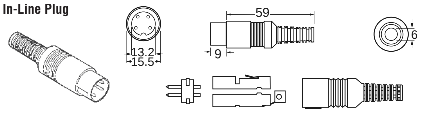

In-Line Locking Plug

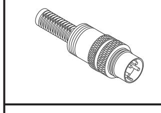

In-Line Plug Right Angle

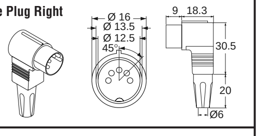

In-Line Receptacle

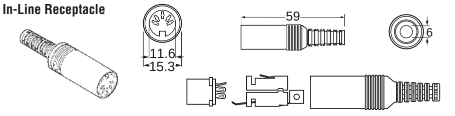

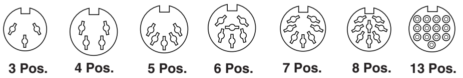

SINGATRON Mini DIN Connectors

APPLICATIONS:
Because of their compact size and durable design, mini-DIN connectors are ideal for signal applications where space is at a premium. A variety of configurations including vertical, horizontal and in-line models allows for most requirements. Their concentric, cylindrical ground shell make these connectors an excellent choice where EMI/RFI is a concern. Typical applications include computers, peripheral devices, office, audio and video equipment.

GENERAL SPECIFICATIONS:
• **Rating:** 100VAC 1A maximum, 12VDC 2A maximum • **Insulation Resistance:** minimum 50MΩ @ 250VDC • **Voltage Withstand:** 250VAC, 1 minute • **Contact Resistance:** Pins - 30mΩ maximum, Shell - 50mΩ maximum (All accessories included)

Right Angle Receptacle

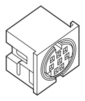

Shielded Right Angle Receptacle

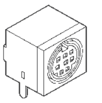

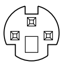
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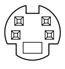
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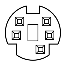
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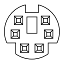
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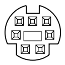
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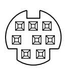
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In-Line Plug

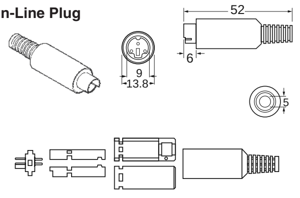

In-Line Receptacle

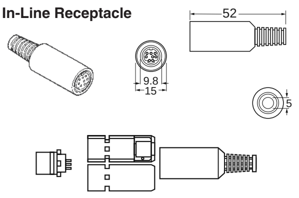

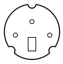
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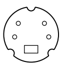
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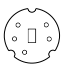
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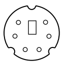
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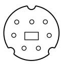
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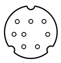
8 Pos.

Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Singatron Part No.
Right Angle PCB Mount Receptacles					
3-Pos. Right Angle Receptacle	275-1040-ND	.81	7.02	54.60	2MJ-0001A110
4-Pos. Right Angle Receptacle	275-1041-ND	.84	7.29	56.70	2MJ-0002A110
5-Pos. Right Angle Receptacle	275-1042-ND	.88	7.70	59.85	2MJ-0003A110
6-Pos. Right Angle Receptacle	275-1043-ND	.93	8.10	63.00	2MJ-0004A110
7-Pos. Right Angle Receptacle	275-1044-ND	1.05	9.18	71.40	2MJ-0005A110
8-Pos. Right Angle Receptacle	275-1045-ND	1.15	9.99	77.70	2MJ-0006A110
Shielded Right Angle Receptacles					
3-Pos. Right Angle Receptacle	275-1046-ND	1.02	8.91	69.30	2MJ-0101A120
4-Pos. Right Angle Receptacle	275-1047-ND	1.05	9.18	71.40	2MJ-0102A120
5-Pos. Right Angle Receptacle	275-1048-ND	1.09	9.45	73.50	2MJ-0103A120
6-Pos. Right Angle Receptacle	275-1049-ND	1.15	9.99	77.70	2MJ-0104A120
7-Pos. Right Angle Receptacle	275-1050-ND	1.27	11.07	86.10	2MJ-0105A120
8-Pos. Right Angle Receptacle	275-1051-ND	1.36	11.88	92.40	2MJ-0106A120
In-Line Plug					
3-Pos. In-Line Plug	275-1028-ND	.93	8.10	63.00	62000-3P
4-Pos. In-Line Plug	275-1029-ND	.99	8.64	67.20	62000-4P
5-Pos. In-Line Plug	275-1030-ND	1.05	9.18	71.40	62000-5P
6-Pos. In-Line Plug	275-1031-ND	1.12	9.72	75.60	62000-6P
7-Pos. In-Line Plug	275-1032-ND	1.18	10.26	79.80	62000-7P
8-Pos. In-Line Plug	275-1033-ND	1.24	10.80	84.00	62000-8P
In-Line Receptacle					
3-Pos. In-Line Jack	275-1034-ND	1.15	9.99	77.70	63000-3P
4-Pos. In-Line Jack	275-1035-ND	1.21	10.53	81.90	63000-4P
5-Pos. In-Line Jack	275-1036-ND	1.27	11.07	86.10	63000-5P
6-Pos. In-Line Jack	275-1037-ND	1.33	11.61	90.30	63000-6P
7-Pos. In-Line Jack	275-1038-ND	1.40	12.15	94.50	63000-7P
8-Pos. In-Line Jack	275-1039-ND	1.46	12.69	98.70	63000-8P

Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Singatron Part No.
Panel Mount Mini-DIN Connectors With 6" (15.24cm) Lead Wire (26AWG)					
3-Pos. Recept.	275-1100-ND	1.71	14.85	115.50	2MJ-20116000
4-Pos. Recept.	275-1101-ND	1.95	17.01	132.30	2MJ-20216000
5-Pos. Recept.	275-1102-ND	2.14	18.63	144.90	2MJ-20316000
6-Pos. Recept.	275-1103-ND	2.33	20.25	157.50	2MJ-20416000
7-Pos. Recept.	275-1104-ND	2.42	21.06	163.80	2MJ-20516000
8-Pos. Recept.	275-1105-ND	2.42	21.06	163.80	2MJ-20616000

Panel Mount Recept., Plastic

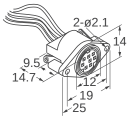

SINGATRON Circular DIN Connectors

APPLICATIONS:

Circular DIN connectors combine low contact resistance with relatively high ampacity which make them an excellent choice for signal or power applications. Ideal for use with computers, peripheral devices, office equipment, power supplies, etc., their low cost and compact, durable design have made them a proven value.

GENERAL SPECIFICATIONS:

• **Ratings:** 100VAC 2A maximum • **Insulation Resistance:** minimum 100MΩ @ 500VDC • **Voltage WIthstand:** 1000VAC, 1 minute • **Contact Resistance:** Pins - 10mΩ @ maximum, Shell - 50mΩ maximum (All accessories included)

Panel Mount Receptacle

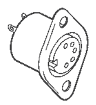

Right Angle Receptacle

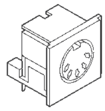

Front Shielded Right Angle Receptacle

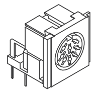

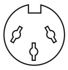
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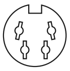
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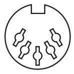
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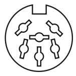
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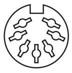
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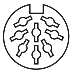
8 Pos.

In-Line Plug

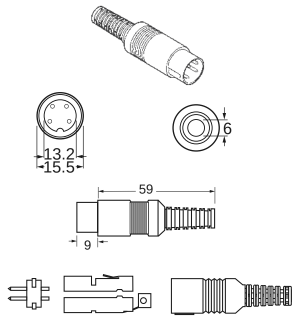

In-Line Jack

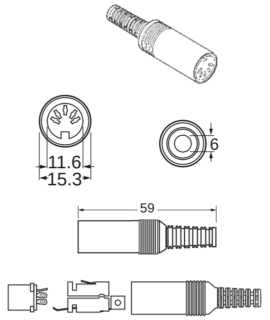

Description	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Singatron Part No.
Panel Mount Receptacles					
3-Pos. Panel Mount Receptacle	275-1012-ND	.64	5.54	43.05	YE-1363
4-Pos. Panel Mount Receptacle	275-1013-ND	.67	5.81	45.15	YE-1364
5-Pos. Panel Mount Receptacle	275-1014-ND	.72	6.26	48.72	YE-1365A
6-Pos. Panel Mount Receptacle	275-1015-ND	.76	6.62	51.45	YE-1366
7-Pos. Panel Mount Receptacle	275-1016-ND	.82	7.16	55.65	YE-1367
8-Pos. Panel Mount Receptacle	275-1017-ND	.88	7.70	59.85	YE-1368A
Right Angle Receptacles					
5-Pos. Right Angle Receptacle	275-1019-ND	.78	6.75	52.50	2DJ-00600003
6-Pos. Right Angle Receptacle	275-1020-ND	1.24	10.80	84.00	2DJ-0196PA02
7-Pos. Right Angle Receptacle	275-1021-ND	1.33	11.61	90.30	2DJ-0077PA03
8-Pos. Right Angle Receptacle	275-1022-ND	1.43	12.42	96.60	2DJ-0108PA03
Right Angle Front Shielded Receptacles					
5-Pos. Right Angle Front Shielded	275-1024-ND	1.09	9.45	73.50	2DJ-0065PSA2
6-Pos. Right Angle Front Shielded	275-1025-ND	1.43	12.42	96.60	2DJ-0196PSA2
7-Pos. Right Angle Front Shielded	275-1026-ND	1.52	13.23	102.90	2DJ-0077PSA2
8-Pos. Right Angle Front Shielded	275-1027-ND	1.71	14.85	115.50	2DJ-0108PSA2
In-Line Plug					
3-Pos. In-Line Plug	275-1000-ND	.53	4.59	35.70	YE-1153
4-Pos. In-Line Plug	275-1001-ND	.56	4.86	37.80	YE-1154
5-Pos. In-Line Plug	275-1002-ND	.59	5.13	39.90	YE-1155A
6-Pos. In-Line Plug	275-1003-ND	.62	5.40	42.00	YE-1156
7-Pos. In-Line Plug	275-1004-ND	.68	5.94	46.20	YE-1157
8-Pos. In-Line Plug	275-1005-ND	.74	6.48	50.40	YE-1158A
In-Line Jack					
3-Pos. In-Line Jack	275-1006-ND	.67	5.81	45.15	YE-1333
4-Pos. In-Line Jack	275-1007-ND	.73	6.35	49.35	YE-1334
5-Pos. In-Line Jack	275-1008-ND	.74	6.48	50.40	YE-1335A
6-Pos. In-Line Jack	275-1009-ND	.79	6.89	53.55	YE-1336
7-Pos. In-Line Jack	275-1010-ND	.85	7.43	57.75	YE-1337
8-Pos. In-Line Jack	275-1011-ND	.91	7.97	61.95	YE-1338A

NEW! Amphenol® Connex RF Connectors

Fig. 1

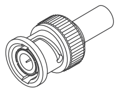

Fig. 2

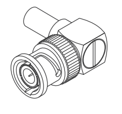

Fig. 3

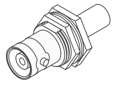

Fig. 4

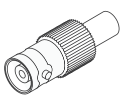

Fig. 5

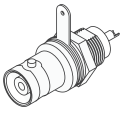

Fig. 6

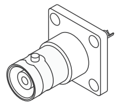

Fig. 7

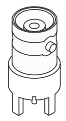

Fig. 8

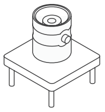

Fig. 9

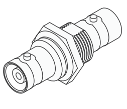

Fig. 10

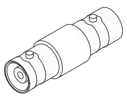

Fig. 11

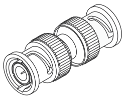

Fig. 12

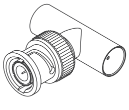

Fig. 13

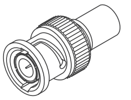

Fig. 14

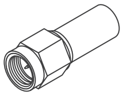

Fig. 15

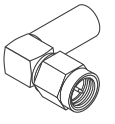

Fig. 16

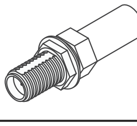

Fig. 17

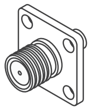

BNC Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	/ Inner	Digi-Key Part No.	Price Each 1	50	100	Amphenol Part No.
1	Plug, Straight	58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Nickel	Crimp	Crimp	ACX1000-ND	1.79	1.12	1.01	112116
	Plug, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1001-ND*	2.82	1.77	1.60	112116RP
	Plug, Straight	RG 55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1002-ND	1.79	1.12	1.01	112514
	Plug, Straight	LMR200™, B7807A	Gold	Nickel	Crimp	Crimp	ACX1003-ND	2.10	1.32	1.19	112597
	Plug, Straight	RG 59, 62, 140, 210	Gold	Nickel	Crimp	Crimp	ACX1004-ND	1.79	1.12	1.01	112119
	Plug, Straight, 75Ω	RG 59, U-20AWG	Gold	Nickel	Crimp	Crimp	ACX1005-ND	1.79	1.12	1.01	112507
	Plug, Straight, 50Ω	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1006-ND	2.29	1.44	1.30	112132
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1007-ND*	2.87	1.80	1.63	112132RP
	Plug, Straight	316, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1008-ND	2.29	1.44	1.30	112512
	Plug, Straight, 75Ω	RG 179, 187, B9221	Gold	Nickel	Crimp	Crimp	ACX1009-ND	2.29	1.44	1.30	112133
	Plug, Straight	179, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1010-ND	2.29	1.44	1.30	112644
	Plug, Straight	RG 178, 196	Gold	Nickel	Crimp	Crimp	ACX1011-ND	2.60	1.63	1.47	112516
	Plug, Straight	RG 8, 8A, 213, 393	Gold	Nickel	Crimp	Crimp	ACX1012-ND	5.62	3.52	3.18	112562
	Plug, Straight	RG 214	Gold	Nickel	Crimp	Crimp	ACX1013-ND	5.62	3.52	3.18	112589
	Plug, Straight	RG 8X, LMR240™, B7808A	Gold	Nickel	Crimp	Crimp	ACX1014-ND	1.89	1.19	1.07	112533
	Plug, Straight	RG 8X, LMR240, B7808A	Gold	Nickel	Crimp	Crimp	ACX1015-ND*	2.82	1.76	1.59	112533RP
	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1016-ND	5.62	3.52	3.18	112563
	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1017-ND*	5.79	3.63	3.28	112563RP
	Plug, Straight, 75Ω	RG 6, 143, 212	Gold	Nickel	Crimp	Crimp	ACX1018-ND	1.87	1.17	1.06	112508
	Plug, Straight, Beldon	RG B1694A, B9248	Gold	Nickel	Crimp	Crimp	ACX1019-ND	1.87	1.17	1.06	112565
	Plug, Straight	RG 6 Plenum, B1695A	Gold	Nickel	Crimp	Crimp	ACX1020-ND	1.89	1.19	1.07	112519
	Plug, Straight	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1021-ND	2.60	1.63	1.47	112551
	Plug, Straight	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1022-ND	2.60	1.63	1.47	112552
	Plug, Straight	.250 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1023-ND	2.60	1.63	1.47	112710
2	Plug, Right Angle	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1024-ND	3.95	2.47	2.24	112162
	Plug, Right Angle	55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1025-ND	4.79	3.00	2.71	112526
	Plug, Right Angle	RG 8, 8A, 213, 393	Gold	Nickel	Crimp	Crimp	ACX1026-ND	5.79	3.63	3.28	112594
	Plug, Right Angle	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1027-ND	5.79	3.63	3.28	112596
	Plug, Right Angle, 75Ω	RG 174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1028-ND	4.28	2.68	2.42	112178
	Plug, Right Angle, 75Ω	RG 179, 187A, B9221	Gold	Nickel	Crimp	Crimp	ACX1029-ND	4.27	2.67	2.41	112179
3	Bulkhead Jack	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1030-ND	3.79	2.37	2.14	112202
	Bulkhead Jack	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1031-ND*	3.29	2.06	1.86	112202RP
	Bulkhead Jack	55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1032-ND	3.75	2.35	2.12	112505
	Bulkhead Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1033-ND	3.75	2.35	2.12	112234
	Bulkhead Jack	316, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1034-ND	3.75	2.35	2.12	112517
	Bulkhead Jack	RG 179, 187A, B9221	Gold	Nickel	Crimp	Crimp	ACX1035-ND	3.75	2.35	2.12	112235
	Bulkhead Jack	RG 178B, 196A	Gold	Nickel	Crimp	Crimp	ACX1036-ND	4.49	2.81	2.54	112522
	Bulkhead Jack	.141 Semi-Rigid, 402, U	Gold	Nickel	Solder	Solder	ACX1037-ND	3.87	2.42	2.19	112581
	Bulkhead Jack	.085 Semi-Rigid, 405, U	Gold	Nickel	Solder	Solder	ACX1038-ND	3.87	2.42	2.19	112580
4	Jack, Straight, 50Ω	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1039-ND	2.29	1.44	1.30	112144
	Jack, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1040-ND*	2.29	1.44	1.30	112144RP
	Jack, Straight	RG 55, 142, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1041-ND	2.29	1.44	1.30	112513
	Jack, Straight, 75Ω	RG 59, 62, 140, 210	Gold	Nickel	Crimp	Crimp	ACX1042-ND	2.29	1.44	1.30	112147
	Jack, Straight	RG 59, U-20AWG	Gold	Nickel	Crimp	Crimp	ACX1043-ND	2.29	1.44	1.30	112649
	Jack, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1044-ND	2.39	1.50	1.36	112160
	Jack, Straight, 75Ω	RG 179, 187, B9221	Gold	Nickel	Crimp	Crimp	ACX1045-ND	2.39	1.50	1.36	112161
5	Bulkhead Receptacle, 50Ω	—	Gold	Nickel	—	—	ACX1046-ND	2.00	1.26	1.14	112424
	Bulkhead Receptacle	—	Gold	Nickel	—	—	ACX1047-ND*	1.65	1.04	.94	112424RP
	Bulkhead Receptacle, Isolated, 50Ω	—	Gold	Nickel	—	—	ACX1048-ND	1.86	1.17	1.05	112431
6	Panel Receptacle	—	Gold	Nickel	—	—	ACX1049-ND	3.64	2.28	2.06	112290
7	PCB Receptacle Jack, Vertical	—	Gold	Nickel	—	—	ACX1050-ND	1.98	1.24	1.12	112538
	PCB Receptacle Jack, 50Ω, Vertical	—	Gold	Nickel	—	—	ACX1051-ND	1.98	1.24	1.12	112404
	PCB Receptacle Jack, Vertical	—	Gold	Nickel	—	—	ACX1052-ND	4.11	2.58	2.33	112483
8	PCB Receptacle Jack, 50Ω, Vertical	—	Gold	Nickel	—	—	ACX1053-ND	3.12	1.95	1.77	112536
9	Adaptor, Bulkhead, Jack-Jack, 50Ω	—	Gold	Nickel	—	—	ACX1054-ND	3.37	2.11	1.91	112437
	Adaptor, Bulkhead, Jack-Jack, 75Ω	—	Gold	Nickel	—	—	ACX1055-ND	3.37	2.11	1.91	112438
	Adaptor, Bulkhead, Jack-Jack, Isolated, 50Ω	—	Gold	Nickel	—	—	ACX1056-ND	4.79	3.00	2.71	112439
	Adaptor, Bulkhead, Jack-Jack, Isolated, 75Ω	—	Gold	Nickel	—	—	ACX1057-ND	4.79	3.00	2.71	112440
	Adaptor, Bulkhead, Jack-Jack, Isolated, 50Ω	—	Gold	Nickel	—	—	ACX1058-ND	3.75	2.35	2.12	112443
	Adaptor, Bulkhead, Jack-Jack, Isolated, 75Ω	—	Gold	Nickel	—	—	ACX1059-ND	3.75	2.35	2.12	112444
10	Adaptor, Jack-Jack, 50Ω	—	Gold	Nickel	—	—	ACX1060-ND	2.39	1.50	1.36	112445
	Adaptor, Jack-Jack, 75Ω	—	Gold	Nickel	—	—	ACX1061-ND	2.39	1.50	1.36	112446
11	Adaptor, Plug-Plug, 50Ω	—	Gold	Nickel	—	—	ACX1062-ND	3.95	2.47	2.24	112447
	Adaptor, Plug-Plug, 75Ω	—	Gold	Nickel	—	—	ACX1063-ND	3.95	2.47	2.24	112448
12	"T" Adaptor, Jack-Plug-Jack, 50Ω	—	Gold	Gold	—	—	ACX1064-ND	2.33	1.46	1.32	112461
	"T" Adaptor, Jack-Plug-Jack, 75Ω	—	Gold	Nickel	—	—	ACX1065-ND	2.82	1.76	1.59	112462
13	Terminator Plug, 50Ω	—	Gold	Nickel	—	—	ACX1066-ND	2.39	1.50	1.36	202103
	Terminator Plug, 75Ω	—	Gold	Nickel	—	—	ACX1067-ND	2.39	1.50	1.36	202105
	Shorting Plug	—	Gold	Nickel	—	—	ACX1069-ND	3.14	1.97	1.78	202114
—	Male Cap with Chain (For Receptacles)	—	—	Nickel	—	—	ACX1068-ND	2.29	1.44	1.30	202100

** Reverse Polarity*

SMA

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	/ Inner	Digi-Key Part No.	Price Each 1	50	100	Amphenol Part No.
14	Direct Solder Plug	.141 Semi-Rigid, 402, U	—	Gold	Solder	Solder	ACX1175-ND	1.76	1.10	1.00	132100
	Semi-Rigid Plug	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1176-ND	3.23	2.02	1.83	132102
	Semi-Rigid Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1177-ND	3.23	2.02	1.83	132101
	Semi-Rigid Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1178-ND*	3.90	2.44	2.21	132101RP
	Semi-Rigid Plug	.250 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1179-ND	5.31	3.32	3.00	132296
	Plug, Straight	RG 58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Crimp	ACX1192-ND	3.74	2.34	2.11	132113
	Plug, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1193-ND*	4.66	2.91	2.63	132113RP
	Plug, Straight	RG 55, 142A, 223, 400	Gold	Gold	Crimp	Crimp	ACX1194-ND	3.75	2.35	2.12	132195
	Plug, Straight	55, 142A, 223, 400	Gold	Gold	Crimp	Crimp	ACX1195-ND*	4.24	2.65	2.40	132195RP
	Plug, Straight	LMR200™, B7807A	Gold	Gold	Crimp	Crimp	ACX1196-ND	3.87	2.42	2.19	132234
	Plug, Straight	LMR200, B7807A	Gold	Gold	Crimp	Crimp	ACX1197-ND*	4.66	2.91	2.63	132234RP
	Plug, Straight	RG 8X, LMR240™, B7808A	Gold	Gold	Crimp	Crimp	ACX1198-ND	6.17	3.86	3.49	132231
	Plug, Straight	RG 8X, LMR240, B7808A	Gold	Gold	Crimp	Crimp	ACX1199-ND*	7.36	4.61	4.16	132231RP
	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Gold	Crimp	Crimp	ACX1200-ND	7.04	4.40	3.98	132298
	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Gold	Crimp	Crimp	ACX1201-ND*	8.12	5.08	4.59	132298RP
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1202-ND	3.74	2.34	2.11	132114
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1203-ND*	5.85	3.66	3.31	132114RP
	Plug, Straight	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1204-ND	3.63	2.28	2.06	132178
	Plug, Straight	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1205-ND*	5.03	3.15	2.85	132178RP
	Plug, Straight	RG 178B, 196A	Gold	Gold	Crimp	Crimp	ACX1206-ND	5.71	3.57	3.23	132193
15	Right Angle, Direct Solder Plug	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1180-ND	5.90	3.69	3.34	132112
	Right Angle, Direct Solder Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1181-ND	5.90	3.69	3.34	132111
	Right Angle, Crimp Plug	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1207-ND	6.77	4.23	3.83	132122
	Right Angle, Crimp Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1208-ND*	6.33	3.96	3.58	132122RP
	Right Angle, Crimp Plug	RG 55, 142, 223, 400	Gold	Gold	Crimp	Crimp	ACX1209-ND	6.77	4.23	3.83	132194
	Right Angle, Crimp Plug	LMR200, B7807A	Gold	Gold	Crimp	Crimp	ACX1210-ND	6.28	3.93	3.55	132235

** Reverse Polarity*

(Continued)

Fig. 18

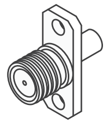

Fig. 19

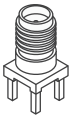

Fig. 20

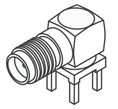

Fig. 21

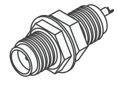

Fig. 22

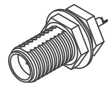

Fig. 23

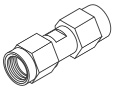

Fig. 24

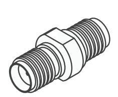

Fig. 25

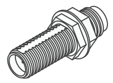

Fig. 26

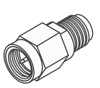

Fig. 27

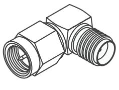

Fig. 28

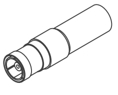

Fig. 29

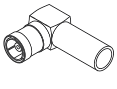

Fig. 30

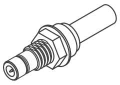

Fig. 31

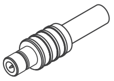

Fig. 32

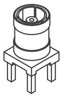

Fig. 33

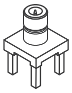

Fig. 34

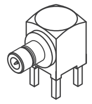

Fig. 35

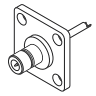

SMA

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Inner	Digi-Key Part No.	Price Each 1	50	100	Amphenol Part No.
15	Right Angle, Crimp Plug	LMR200™, B7807A	Gold	Gold	Crimp	Crimp	ACX1211-ND*	6.12	3.83	3.46	132235RP
	Right Angle, Crimp Plug	RG 8X, LMR240™, B7808A	Gold	Gold	Crimp	Crimp	ACX1212-ND	8.89	5.56	5.03	132239
	Right Angle, Crimp Plug	B9913, LMR400™, B7810A, B8214	Gold	Gold	Crimp	Crimp	ACX1213-ND	7.04	4.40	3.98	132299
	Right Angle, Crimp Plug	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1214-ND	6.77	4.23	3.83	132123
	Right Angle, Crimp Plug	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1215-ND*	6.33	3.96	3.58	132123RP
	Right Angle, Crimp Plug	Double Braided	Gold	Gold	Crimp	Crimp	ACX1216-ND	6.77	4.23	3.83	132182
	Right Angle, Crimp Plug	RG 178B, 196A	Gold	Gold	Crimp	Crimp	ACX1217-ND	6.28	3.93	3.55	132173
16	Bulkhead, Crimp Jack	58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Crimp	ACX1218-ND	5.21	3.26	2.94	132118
	Bulkhead, Crimp Jack	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1219-ND*	5.09	3.19	2.88	132118RP
	Bulkhead, Crimp Jack	RG 55, 142, 223, 400	Gold	Gold	Crimp	Crimp	ACX1220-ND	5.21	3.26	2.94	132191
	Bulkhead, Crimp Jack	RG 55, 142, 223, 400	Gold	Gold	Crimp	Crimp	ACX1221-ND*	5.09	3.19	2.88	132191RP
	Bulkhead, Crimp Jack	RG 8X, LMR240, B7808A	Gold	Gold	Crimp	Crimp	ACX1222-ND	5.22	3.27	2.95	132241
	Bulkhead, Crimp Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1223-ND	6.14	3.85	3.47	132119
	Bulkhead, Crimp Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1224-ND*	4.83	3.03	2.73	132119RP
	Crimp Jack	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1225-ND	5.00	3.13	2.83	132116
	Crimp Jack	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1226-ND*	4.06	2.54	2.30	132116RP
	Crimp Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1227-ND	5.00	3.13	2.83	132117
	Crimp Jack	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1228-ND*	4.06	2.54	2.30	132117RP
	Straight, Crimp Jack	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1229-ND	5.62	3.52	3.18	132198
	Direct Solder, Bulkhead Jack	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1182-ND	6.04	3.78	3.41	132106
	Direct Solder, Bulkhead Jack	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1183-ND	6.04	3.78	3.41	132105
	Direct Solder, Bulkhead Jack	.250 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1184-ND	5.03	3.15	2.84	132346
17	Semi-Rigid, Panel Jack	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1185-ND	5.93	3.71	3.35	132107
	Panel Jack	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1186-ND	5.93	3.71	3.35	132108
	Panel Jack	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1187-ND*	5.25	3.29	2.97	132108RP
	Panel, Receptacle	—	Gold	Gold	—	—	ACX1238-ND	6.50	4.07	3.67	132146
—	Bulkhead, Receptacle, Jack	—	Gold	Gold	—	—	ACX1239-ND	6.77	4.23	3.83	132147
18	Semi-Rigid, Panel, Jack	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1188-ND	5.93	3.71	3.35	132109
	Semi-Rigid, Panel, Jack	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1189-ND*	5.03	3.15	2.85	132109RP
	Direct Solder, Panel, Jack	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1190-ND	5.47	3.42	3.09	132110
	Direct Solder, Panel, Jack	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1191-ND*	5.96	3.73	3.37	132110RP
19	PCB, Jack (Extended Legs)	—	Gold	Gold	—	—	ACX1230-ND	4.37	2.74	2.47	132134
	PCB, Jack (Extended Legs)	—	Gold	Gold	—	—	ACX1231-ND*	3.54	2.22	2.00	132134RP
20	Right Angle, PCB, Jack	—	Gold	Gold	—	—	ACX1232-ND	7.39	4.62	4.18	132136
	Right Angle, PCB, Jack	—	Gold	Gold	—	—	ACX1233-ND*	6.88	4.30	3.89	132136RP
	Right Angle, Bulkhead, PCB, Jack	—	Gold	Gold	—	—	ACX1234-ND	9.91	6.20	5.60	132203
	Right Angle, Bulkhead, PCB, Jack	—	Gold	Gold	—	—	ACX1235-ND*	8.70	5.44	4.92	132203RP
21	Bulkhead, Receptacle, Jack	—	Gold	Gold	—	—	ACX1236-ND	5.41	3.39	3.06	132137
22	Bulkhead, Receptacle, Jack	—	Gold	Gold	—	—	ACX1237-ND	5.03	3.15	2.85	132139
23	Plug, Adaptor	—	Gold	Gold	—	—	ACX1240-ND	5.83	3.65	3.30	132168
	Plug, Adaptor	—	Gold	Gold	—	—	ACX1241-ND*	6.32	3.96	3.57	132168RP
24	Jack to Jack Adaptor	—	Gold	Gold	—	—	ACX1242-ND	4.89	3.06	2.77	132169
	Jack to Jack Adaptor	—	Gold	Gold	—	—	ACX1243-ND*	4.79	3.00	2.71	132169RP
25	Bulkhead, Jack to Jack Adaptor	—	Gold	Gold	—	—	ACX1244-ND	7.50	4.69	4.24	132170
	Bulkhead, Jack to Jack Adaptor	—	Gold	Gold	—	—	ACX1245-ND*	10.84	6.78	6.12	132170RP
26	Plug to Jack Adaptor	—	Gold	Gold	—	—	ACX1246-ND	5.41	3.39	3.06	132171
	Plug to Jack Adaptor	—	Gold	Gold	—	—	ACX1247-ND*	5.41	3.39	3.06	132171RP
	Plug to Jack	—	Gold	Gold	—	—	ACX1248-ND*	5.42	3.39	3.06	132171RP-10
27	Plug to Jack, Right Angle, Adaptor	—	Gold	Gold	—	—	ACX1249-ND	8.74	5.47	4.94	132172
—	Plug Cap (Less Chain)	—	—	Gold	—	—	ACX1250-ND	1.68	1.05	.95	202112
—	Terminator Plug, 50Ω	—	Gold	Gold	—	—	ACX1251-ND	2.71	1.70	1.53	132360
—	Terminator Jack, 50Ω	—	Gold	Gold	—	—	ACX1252-ND	2.71	1.70	1.53	132361

**Reverse Polarity*

SMB

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Inner	Digi-Key Part No.	Price Each 1	50	100	Amphenol Part No.
28	Plug, Straight	RG 58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Crimp	ACX1278-ND	5.14	3.22	2.91	142255
	Plug, Straight	RG 55, 142, 223, 400	Gold	Gold	Crimp	Crimp	ACX1279-ND	5.74	3.59	3.24	142220
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1280-ND	5.52	3.46	3.12	142186
	Plug, Straight, 75Ω	179, 187, B9221	Gold	Gold	Crimp	Crimp	ACX1281-ND	5.20	3.25	2.94	142186-75
	Plug, Straight	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1282-ND	5.20	3.25	2.94	142187
	Plug, Sraight, 75Ω	179, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1283-ND	5.20	3.25	2.94	142187-75
	Plug Straight	RG 178, 196	Gold	Gold	Crimp	Crimp	ACX1284-ND	5.52	3.46	3.12	142229
	Direct Solder Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1285-ND	5.14	3.22	2.91	142212
	Direct Solder Plug, 75Ω	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1286-ND	5.14	3.22	2.91	142212-75
	Plug, Straight, 75Ω	AT&T735A, B735A1	Gold	Gold	Crimp	Crimp	ACX1287-ND	5.52	3.46	3.12	142222-75
29	Right Angle, Crimp Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1288-ND	6.66	4.17	3.76	142206
	Right Angle, Crimp Plug	55, 142A, 223, 400	Gold	Gold	Crimp	Crimp	ACX1289-ND	16.26	10.17	9.18	142322
	Right Angle, Crimp Plug	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1290-ND	4.93	3.08	2.79	142194
	Right Angle, Crimp Plug, 75Ω	179, 187, B9221	Gold	Gold	Crimp	Crimp	ACX1291-ND	5.96	3.73	3.37	142194-75
	Right Angle, Crimp Plug	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1292-ND	6.77	4.23	3.83	142176
	Right Angle, Crimp Plug, 75Ω	179, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1293-ND	5.96	3.73	3.37	142176-75
	Right Angle, Crimp Plug	RG 178, 196	Gold	Gold	Crimp	Crimp	ACX1294-ND	7.09	4.44	4.01	142195
	Right Angle, Direct Solder, Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1295-ND	6.09	3.81	3.44	142214
	Right Angle, Direct Solder, Plug	.141 Semi-Rigid, 402, U	Gold	Gold	Solder	Solder	ACX1296-ND	16.26	10.17	9.18	142329
	Right Angle, Crimp Plug, 75Ω	AT&T735A, B735A1	Gold	Gold	Crimp	Crimp	ACX1297-ND	6.06	3.79	3.43	142221-75
30	Bulkhead, Crimp Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1298-ND	4.06	2.54	2.30	142191
	Bulkhead, Crimp Jack, 75Ω	179, 187, B9221	Gold	Gold	Crimp	Crimp	ACX1299-ND	4.06	2.54	2.30	142191-75
	Bulkhead, Crimp Jack	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1300-ND	4.06	2.54	2.30	142192
	Bulkhead, Crimp Jack, 75Ω	179, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1301-ND	4.06	2.54	2.30	142192-75
	Bulkhead, Crimp Jack	RG 178B, 196A	Gold	Gold	Crimp	Crimp	ACX1302-ND	4.06	2.54	2.30	142231
	Bulkhead, Direct Solder Jack	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1303-ND	10.83	6.77	6.12	142301
	Bulkhead, Receptacle Jack	174, 188A, 316, B7805A, LMR100	Gold	Nickel	—	—	ACX1309-ND	3.12	1.96	1.77	142152
31	Straight Jack	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1304-ND	3.54	2.22	2.00	142189
	Straight Jack, 75Ω	179, 187, B9221	Gold	Gold	Crimp	Crimp	ACX1305-ND	3.54	2.22	2.00	142189-75
	Straight Jack	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1306-ND	3.36	2.10	1.90	142190
	Straight Jack, 75Ω	179, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1307-ND	3.54	2.22	2.01	142190-75
	Straight Jack	178B, 196A	Gold	Gold	Crimp	Crimp	ACX1308-ND	3.68	2.31	2.08	142241
32	PCB Straight Plug	—	Gold	Gold	—	—	ACX1310-ND	4.68	2.93	2.65	142134
	PCB Straight Plug, 75Ω	—	Gold	Gold	—	—	ACX1311-ND	4.89	3.06	2.77	142134-75
33	PCB Jack	—	Gold	Gold	—	—	ACX1312-ND	2.48	1.56	1.41	142138
	PCB Jack, 75Ω	—	Gold	Gold	—	—	ACX1313-ND	2.61	1.64	1.48	142138-75
	PCB Bulkhead Receptacle	—	Gold	Gold	—	—	ACX1314-ND	4.41	2.76	2.50	142210
	PCB Bulkhead Receptacle, 75Ω	—	Gold	Gold	—	—	ACX1315-ND	4.28	2.68	2.42	142210-75
34	Right Angle, PCB, Jack	—	Gold	Gold	—	—	ACX1316-ND	4.48	2.80	2.53	142146
	Right Angle, PCB, Jack, 75Ω	—	Gold	Gold	—	—	ACX1317-ND	4.48	2.80	2.53	142146-75
	Right Angle, PCB, Bulkhead, Jack	—	Gold	Gold	—	—	ACX1318-ND	6.25	3.91	3.53	142184
	Right Angle, PCB, Bulkhead, Jack, 75Ω	—	Gold	Gold	—	—	ACX1319-ND	6.23	3.90	3.52	142184-75
35	Panel Mount Receptacle Jack	—	Gold	Gold	—	—	ACX1320-ND	4.48	2.80	2.53	142162
—	Panel Mount Receptacle Jack	—	Gold	Gold	—	—	ACX1321-ND	4.48	2.81	2.53	142166

Fig. 1

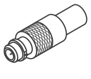

Fig. 2

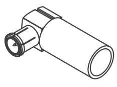

Fig. 3

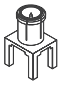

Fig. 4

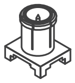

Fig. 5

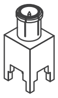

Fig. 6

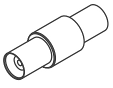

Fig. 7

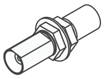

Fig. 8

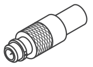

Fig. 9

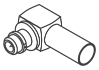

Fig. 10

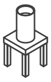

Fig. 11

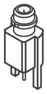

Fig. 12

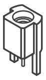

Fig. 13

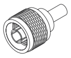

Fig. 14

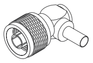

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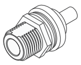

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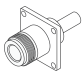

Fig. 17

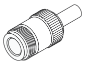

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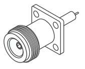

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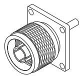

Fig. 20

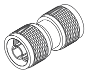

Fig. 21

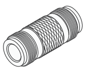

Fig. 22

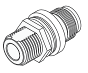

Fig. 23

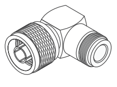

MCX Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Inner	Digi-Key Part No.	Price Each 1	50	100	Amphenol Part No.
1	Plug, Straight	RG 58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Gold	Crimp	Crimp	ACX1253-ND	4.35	2.73	2.46	252180
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1254-ND	4.28	2.68	2.42	252103
	Plug, Straight	316, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1255-ND	4.66	2.91	2.63	252121
	Plug, Straight	RG 178, 196	Gold	Gold	Crimp	Crimp	ACX1256-ND	6.44	4.03	3.64	252127
	Direct Solder Plug, Straight	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1257-ND	4.06	2.54	2.30	252107
2	Plug, Right Angle	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Gold	Crimp	Crimp	ACX1258-ND	6.29	3.93	3.55	252115
	Plug, Right Angle	174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1259-ND	5.61	3.51	3.17	252102
	Plug, Right Angle	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1260-ND	5.61	3.51	3.17	252119
	Plug, Right Angle	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1261-ND	5.41	3.39	3.06	252109
3	P.C.B. Receptacle Jack	—	Gold	Gold	—	—	ACX1262-ND	4.33	2.71	2.45	252105
4	P.C.B. Receptacle Jack, 50Ω	—	Gold	Gold	—	—	ACX1263-ND	4.66	2.91	2.63	252117
5	P.C.B. Receptacle Plug	—	Gold	Gold	—	—	ACX1264-ND	5.21	3.26	2.95	252153
6	Jack to Jack Adapter	—	Gold	Gold	—	—	ACX1265-ND	5.80	3.63	3.28	252169
7	Bulkhead, Jack to Jack Adapter	—	Gold	Gold	—	—	ACX1266-ND	6.88	4.30	3.89	252171

MMCX Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Inner	Digi-Key Part No.	Price Each 1	50	100	Amphenol Part No.
8	Semi-Rigid Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1267-ND	3.79	2.37	2.14	262112
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1268-ND	3.54	2.22	2.00	262101
	Plug, Straight	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1269-ND	3.48	2.18	1.97	262110
	Plug, Straight	RG 178B, 196A	Gold	Gold	Crimp	Crimp	ACX1270-ND	3.48	2.18	1.97	262100
9	Right Angle, Semi-Rigid Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1271-ND	5.20	3.25	2.94	262113
	Right Angle, Plug	RG 174, 188A, 316, B7805A, LMR100	Gold	Gold	Crimp	Crimp	ACX1272-ND	4.44	2.78	2.51	262103
	Right Angle, Plug	316, U Double Braided	Gold	Gold	Crimp	Crimp	ACX1273-ND	4.44	2.78	2.51	262111
	Right Angle, Plug	RG 178B, 196A	Gold	Gold	Crimp	Crimp	ACX1274-ND	4.44	2.78	2.51	262102
10	P.C.B. Jack	—	Gold	Gold	—	—	ACX1275-ND	5.03	3.15	2.84	262104
11	Edgecard Mount Plug	—	Gold	Gold	—	—	ACX1276-ND	4.44	2.78	2.51	262106
12	Edgecard, Jack	—	Gold	Gold	—	—	ACX1277-ND	5.63	3.52	3.18	262107

N Type Connectors

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Inner	Digi-Key Part No.	Price Each 1	50	100	Amphenol Part No.
13	Plug, Straight	RG 58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1118-ND	4.60	2.88	2.60	172100
	Plug, Straight	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1119-ND*	5.38	3.36	3.04	172100RP
	Plug, Straight	RG 55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1120-ND	4.60	2.88	2.60	172142
	Plug, Straight	LMR200™, B7807A	Gold	Nexcote	Crimp	Crimp	ACX1121-ND	4.39	2.75	2.48	172214
	Plug, Straight	LMR200, B7807A	Gold	Nexcote	Crimp	Crimp	ACX1122-ND*	5.36	3.35	3.03	172214RP
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1123-ND	6.15	3.85	3.48	172128
	Plug, Straight	RG 316, U Double Braided	Gold	Nexcote	Crimp	Crimp	ACX1124-ND	6.60	4.13	3.73	172171
	Plug, Straight	RG 8, 8A, 213, 393	Gold	Nexcote	Crimp	Crimp	ACX1125-ND	4.98	3.11	2.81	172102
	Plug, Straight	RG 214	Gold	Nexcote	Crimp	Crimp	ACX1126-ND	4.98	3.12	2.82	172166
	Plug, Straight	RG 8X, LMR240™, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1127-ND	4.98	3.11	2.81	172135
	Plug, Straight	RG 8X, LMR240, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1128-ND*	5.38	3.36	3.04	172135RP
	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Nexcote	Crimp	Crimp	ACX1129-ND	5.18	3.24	2.93	172102H243
	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Albaloy	Crimp	Crimp	ACX1130-ND*	5.80	3.63	3.28	172102H243RP
	Plug, Straight	LMR600™	Gold	Nexcote	Crimp	Crimp	ACX1131-ND	11.17	6.99	6.31	172206
	Direct Solder Plug	.141 Semi-Rigid, 402, U	Gold	Nexcote	Solder	Solder	ACX1132-ND	5.62	3.52	3.18	172133
	Direct Solder Plug	.085 Semi-Rigid, 405, U	Gold	Nexcote	Solder	Solder	ACX1133-ND	5.74	3.59	3.24	172211
	Direct Solder Plug	.250 Semi-Rigid	Gold	Nexcote	Solder	Solder	ACX1134-ND	5.83	3.65	3.30	172139
14	Right Angle, Plug	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1135-ND	9.69	6.06	5.48	172177
	Right Angle, Plug	RG 55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1136-ND	9.34	5.85	5.28	172178
	Right Angle, Plug	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1137-ND	9.64	6.03	5.44	172180
	Right Angle, Plug	RG 8, 8A, 213, 393	Gold	Nexcote	Crimp	Crimp	ACX1138-ND	9.21	5.76	5.20	172176
	Right Angle, Plug	RG 214	Gold	Albaloy	Crimp	Crimp	ACX1139-ND	10.02	6.26	5.66	172167
15	Bulkhead, Jack	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1140-ND	6.99	4.38	3.95	172106
	Bulkhead, Jack	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1141-ND*	6.99	4.38	3.95	172106RP
	Bulkhead, Jack	RG 55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1142-ND	6.51	4.08	3.68	172132
	Bulkhead, Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1143-ND	6.95	4.35	3.93	172129
	Bulkhead, Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1144-ND*	6.55	4.10	3.70	172129RP
	Bulkhead, Jack	RG 316, U Double Braided	Gold	Nexcote	Crimp	Crimp	ACX1145-ND	6.95	4.35	3.93	172165
	Bulkhead, Jack	RG 8X, LMR240, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1146-ND	6.66	4.17	3.76	172149
	Bulkhead, Direct Solder Jack	.141 Semi-Rigid, 402, U	Gold	Nexcote	Solder	Solder	ACX1147-ND	8.12	5.08	4.59	172137
	Bulkhead, Direct Solder Jack	.085 Semi-Rigid, 405, U	Gold	Nexcote	Solder	Solder	ACX1148-ND	8.06	5.04	4.55	172138
	Bulkhead, Direct Solder Jack	.250 Semi-Rigid	Gold	Nexcote	Solder	Solder	ACX1149-ND	8.12	5.08	4.59	172153
16	Panel Jack	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1150-ND	7.09	4.44	4.01	172208
	Panel Jack	RG 55, 142A , 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1151-ND	8.80	5.51	4.97	172175
	Panel Jack	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1152-ND	8.07	5.05	4.56	172173
	Panel Direct Solder Jack	.141 Semi-Rigid, 402, U	Gold	Nexcote	Solder	Solder	ACX1153-ND	8.34	5.22	4.71	172170
	Panel Direct Solder Jack	.085 Semi-Rigid, 405, U	Gold	Nexcote	Solder	Solder	ACX1154-ND	8.34	5.22	4.71	172169
17	Jack, Straight	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1155-ND	4.49	2.81	2.54	172103
	Jack, Straight	RG 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nexcote	Crimp	Crimp	ACX1156-ND*	4.33	2.71	2.45	172103RP
	Jack, Straight, 50Ω, Cap. Con.	RG 55, 142, 223, 400	Gold	Nexcote	Crimp	Crimp	ACX1157-ND	4.49	2.81	2.54	172147
	Jack, Straight	LMR200, B7807A	Gold	Nexcote	Crimp	Crimp	ACX1158-ND	4.49	2.81	2.54	172216
	Jack, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Nexcote	Crimp	Crimp	ACX1159-ND	6.33	3.96	3.58	172204
	Jack, Straight	RG 8X, LMR240, B7808A	Gold	Nexcote	Crimp	Crimp	ACX1160-ND	4.39	2.75	2.48	172148
	Jack, Straight	B9913, LMR400, B7810A, B8214	Gold	Nexcote	Crimp	Crimp	ACX1161-ND	4.60	2.88	2.60	172203
	Jack, Straight	B9913, LMR400, B7810A, B8214	Gold	Albaloy	Crimp	Crimp	ACX1162-ND*	4.41	2.76	2.49	172203RP
	Solder Jack	.141 Semi-Rigid, 402, U	Gold	Nexcote	Solder	Solder	ACX1163-ND	4.55	2.85	2.58	172238
	Solder Jack	.085 Semi-Rigid, 405, U	Gold	Nexcote	Solder	Solder	ACX1164-ND	4.55	2.85	2.58	172237
18	Panel Receptacle Jack, Ext. Tef.	—	Gold	Nexcote	—	—	ACX1165-ND	4.98	3.12	2.82	172117
	Panel Receptacle Jack	—	Gold	Nexcote	—	—	ACX1167-ND	5.52	3.46	3.12	172119
19	Panel Receptacle Plug	—	Gold	Nexcote	—	—	ACX1166-ND	7.10	4.44	4.01	172118
20	Plug to Plug Adapter	—	Gold	Nexcote	—	—	ACX1168-ND	7.47	4.67	4.22	172122
21	Jack to Jack Adapter	—	Gold	Nexcote	—	—	ACX1169-ND	5.33	3.34	3.02	172123
22	Bulkhead, Jack to Jack Adapter	—	Gold	Nexcote	—	—	ACX1170-ND	6.87	4.30	3.88	172124
23	Jack to Plug Adapter	—	Gold	Nexcote	—	—	ACX1171-ND	7.74	4.84	4.38	172126
—	Plug Cap with Chain	—	—	Nickel	—	—	ACX1172-ND	2.29	1.44	1.30	202102
	Terminator Plug with Chain	—	Gold	Nexcote	—	—	ACX1173-ND	7.11	4.45	4.02	202109-10
	Terminator Jack	—	Gold	Nexcote	—	—	ACX1174-ND	4.92	3.08	2.78	202110

* Reverse Polarity

NEW! Amphenol® Connex RF Connectors

Fig. 1

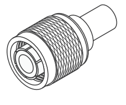

Fig. 2

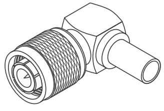

Fig. 3

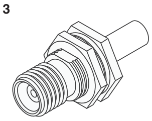

Fig. 4

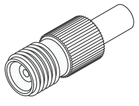

Fig. 5

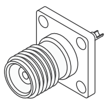

Fig. 6

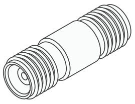

TNC

Fig.	Description	Cable Group RG/U	Center Contact	Body Plating	Cable Attachment Outer	Cable Attachment Inner	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Amphenol Part No.
1	Plug, Straight-Captive Contact	RG 58, 58A, 58C, 141, 303, LMR195™, B7806A	Gold	Nickel	Crimp	Crimp	ACX1070-ND	1.79	1.12	1.01	122108
	Plug, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1071-ND*	2.41	1.51	1.37	122108RP
	Plug, Straight	RG 55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1072-ND	1.79	1.12	1.01	122372
	Plug, Straight	55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1073-ND*	3.52	2.20	1.99	122372RP
	Plug, Straight	LMR200™, B7807A	Gold	Nickel	Crimp	Crimp	ACX1074-ND	1.79	1.12	1.01	122410
	Plug, Straight	RG 59, 62, 140, 210	Gold	Nickel	Crimp	Crimp	ACX1075-ND	1.79	1.12	1.01	122111
	Plug, Straight, 75Ω	59, U-20AWG	Gold	Nickel	Crimp	Crimp	ACX1076-ND	1.79	1.12	1.01	122426
	Plug, Straight	RG 8, 8A, 213, 393	Gold	Nickel	Crimp	Crimp	ACX1077-ND	5.62	3.52	3.18	122394
	Plug, Straight	RG 214	Gold	Nickel	Crimp	Crimp	ACX1078-ND	5.62	3.52	3.18	122398
	Plug, Straight	RG 8X, LMR240™, B7808A	Gold	Nickel	Crimp	Crimp	ACX1079-ND	2.06	1.29	1.17	122408
	Plug, Straight	RG 8X, LMR240, B7808A	Nickel	Nickel	Crimp	Crimp	ACX1080-ND*	3.68	2.31	2.08	122408RP
	Plug, Straight	B9913, LMR400™, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1081-ND	6.23	3.90	3.52	122393
	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1082-ND*	6.23	3.90	3.52	122393RP
	Plug, Straight	RG 174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1083-ND	2.29	1.44	1.30	122116
	Plug, Straight	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1085-ND*	2.82	1.76	1.59	122116RP
	Plug, Straight	316, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1084-ND	2.29	1.44	1.30	122375
	Direct Solder Plug	.085 Semi-Rigid, 405, U	Gold	Gold	Solder	Solder	ACX1086-ND	3.68	2.30	2.08	122387
	Direct Solder Plug	.141 Semi-Rigid, 402, U	Gold	Nickel	Solder	Solder	ACX1087-ND	3.46	2.17	1.96	122386
	Direct Solder Plug	.085 Semi-Rigid, 405, U	Gold	Nickel	Solder	Solder	ACX1088-ND*	4.12	2.58	2.33	122386RP
	Direct Solder Plug	.250 Semi-Rigid	Gold	Gold	Solder	Solder	ACX1089-ND	2.60	1.63	1.47	122484
	Terminator Plug	—	Gold	Nickel	—	—	ACX1117-ND	2.39	1.50	1.36	202117
2	Right Angle Plug	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1090-ND	3.90	2.44	2.21	122140
	Right Angle Plug	RG, 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1091-ND*	4.06	2.54	2.30	122140RP
	Right Angle Plug	RG 55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1092-ND	4.06	2.54	2.30	122430
	Right Angle Plug	RG 8X, LMR240™, B7808A	Gold	Nickel	Crimp	Crimp	ACX1093-ND	5.80	3.63	3.28	122414
	Right Angle Plug	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1094-ND	5.80	3.63	3.28	122416
	Right Angle Plug	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1095-ND	4.27	2.67	2.41	122148
3	Bulkhead Jack	RG, 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1096-ND	3.75	2.35	2.12	122160
	Bulkhead Jack	RG, 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1097-ND*	4.48	2.80	2.53	122160RP
	Bulkhead Jack	174, 188A, 316, B7805A, LMR100	Gold	Nickel	Crimp	Crimp	ACX1098-ND	3.75	2.35	2.12	122192
	Bulkhead Jack	316, U Double Braided	Gold	Nickel	Crimp	Crimp	ACX1099-ND	3.64	2.28	2.06	122358
	Bulkhead Jack	RG 178B, 196A	Gold	Nickel	Crimp	Crimp	ACX1100-ND	4.28	2.68	2.42	122370
	Bulkhead Jack	RG 178B, 196A	Gold	Nickel	Crimp	Crimp	ACX1101-ND*	5.20	3.25	2.94	122370RP
	Bulkhead, Direct Solder, Jack	.141 Semi-Rigid, 402, U	Gold	Nickel	Solder	Solder	ACX1102-ND	3.87	2.42	2.19	122401
	Bulkhead, Solder Jack	.085 Semi-Rigid, 405, U	Gold	Nickel	Solder	Solder	ACX1103-ND	4.06	2.54	2.30	122400
4	Jack, Straight	RG, 58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1104-ND	2.29	1.44	1.30	122122
	Jack, Straight	58, 58A, 58C, 141, 303, LMR195, B7806A	Gold	Nickel	Crimp	Crimp	ACX1105-ND*	2.71	1.70	1.53	122122RP
	Jack, Straight	RG 55, 142A, 223, 400	Gold	Nickel	Crimp	Crimp	ACX1106-ND	1.79	1.12	1.01	122373
	Jack, Straight	RG 8X, LMR240, B7808A	Gold	Nickel	Crimp	Crimp	ACX1107-ND	4.64	2.90	2.62	122409
	Jack, Straight	RG 8X, LMR240, B7808A	Gold	Nickel	Crimp	Crimp	ACX1108-ND*	2.71	1.70	1.53	122409RP
	Jack, Straight	RG 8, 8A, 213, 393	Gold	Nickel	Crimp	Crimp	ACX1109-ND	5.03	3.15	2.85	122482
	Jack, Straight	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1110-ND	5.21	3.26	2.94	122392
	Plug, Straight	B9913, LMR400, B7810A, B8214	Gold	Nickel	Crimp	Crimp	ACX1111-ND*	4.68	2.93	2.65	122392RP
	Bulkhead, Receptacle, Jack	—	Gold	Nickel	—	—	ACX1112-ND	1.98	1.24	1.12	122332
5	Panel Jack	—	Gold	Nickel	—	—	ACX1113-ND	3.64	2.28	2.06	122248
6	Jack to Jack Adapter, 50Ω	—	Gold	Nickel	—	—	ACX1114-ND	2.39	1.50	1.36	122348
—	Plug to Plug Adapter, 50Ω	—	Gold	Nickel	—	—	ACX1115-ND	3.95	2.47	2.24	122350
—	Plug Cap with Chain	—	—	Nickel	—	—	ACX1116-ND	2.29	1.44	1.30	202101

* Reverse Polarity

Between Series Adapters

ACX1339-ND Shown

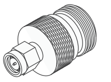

ACX1382-ND Shown

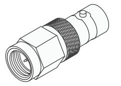

ACX1355-ND Shown

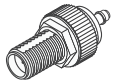

Description	Center Contact	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Amphenol Part No.
SMA Plug to BNC Jack	Gold	Nickel	ACX1322-ND	5.92	3.70	3.34	242102
SMA Jack to BNC Plug	Gold	Gold	ACX1323-ND	11.49	7.18	6.48	242103
SMA Plug to BNC Plug	Gold	Nickel	ACX1324-ND	17.23	10.77	9.73	242104
SMA Jack to BNC Jack	Gold	Nickel	ACX1325-ND	10.34	6.46	5.84	242123
SMA Jack to BNC Bulkhead Jack	Gold	Nickel	ACX1326-ND	17.23	10.77	9.73	242181
TNC Jack to SMA Plug	Gold	Nickel	ACX1327-ND	11.49	7.18	6.48	242124
SMA Jack to TNC Plug	Gold	Nickel	ACX1328-ND	8.62	5.38	4.86	242105
SMA Jack to TNC Plug	Gold	Gold	ACX1329-ND*	17.23	10.77	9.73	242105RP
SMA Plug to TNC Plug	Gold	Nickel	ACX1330-ND	17.23	10.77	9.73	242106
SMA Jack to TNC Jack	Gold	Nickel	ACX1331-ND	17.23	10.77	9.73	242107
SMA Jack to TNC Jack	Gold	Gold	ACX1332-ND*	17.23	10.77	9.73	242107RP
SMA Jack to TNC Bulkhead Jack	Gold	Nickel	ACX1333-ND	17.23	10.77	9.73	242178
SMA Plug to SMB Jack	Gold	Gold	ACX1334-ND	17.23	10.77	9.73	242144
SMA Jack to SMB Plug	Gold	Gold	ACX1335-ND	11.49	7.18	6.48	242145
SMA Plug to SMB Plug	Gold	Gold	ACX1336-ND	17.23	10.77	9.73	242146
SMA Jack to SMB Jack	Gold	Gold	ACX1337-ND	17.23	10.77	9.73	242147
SMA Bulkhead Jack to SMB Jack	Gold	Gold	ACX1338-ND	17.23	10.77	9.73	242182
SMA Plug to N Jack	Gold	Nickel	ACX1339-ND	11.49	7.18	6.48	242112
SMA Plug to N Jack	Gold	Nickel	ACX1340-ND*	11.49	7.18	6.48	242112RP
SMA Jack to N Plug	Gold	Nickel	ACX1341-ND	9.19	5.74	5.19	242113
SMA Jack to N Plug	Gold	Nickel	ACX1342-ND*	17.23	10.77	9.73	242113RP
SMA Plug to N Plug	Gold	Nickel	ACX1343-ND	11.49	7.18	6.48	242114
SMA Jack to N Jack	Gold	Nickel	ACX1344-ND	11.49	7.18	6.48	242115
N Jack to SMA Bulkhead Jack	Gold	Nickel	ACX1345-ND	10.40	6.50	5.87	242125
N Jack to SMA Jack Panel	Gold	Nickel	ACX1346-ND	11.49	7.18	6.48	242163
SMA Plug to MCX Jack	Gold	Gold	ACX1347-ND	17.23	10.77	9.73	242126
SMA Jack to MCX Plug	Gold	Gold	ACX1348-ND	14.36	8.97	8.11	242127
SMA Plug to MCX Plug	Gold	Gold	ACX1349-ND	17.23	10.77	9.73	242128
SMA Jack to MCX Jack	Gold	Gold	ACX1350-ND	17.23	10.77	9.73	242129
SMA Plug to MMCX Jack	Gold	Gold	ACX1351-ND	17.23	10.77	9.73	242140
SMA Jack to MMCX Plug	Gold	Gold	ACX1352-ND	17.23	10.77	9.73	242141
SMA Plug to MMCX Plug	Gold	Gold	ACX1353-ND	17.23	10.77	9.73	242142
SMA Jack to MMCX Jack	Gold	Gold	ACX1354-ND	17.23	10.77	9.73	242143
SMA Jack to MMCX Plug	Gold	Gold	ACX1355-ND	17.23	10.77	9.73	242193
N Plug to BNC Jack	Gold	Nickel	ACX1356-ND	17.23	10.77	9.73	242121
BNC Plug to N Jack	Gold	Nickel	ACX1357-ND	17.23	10.77	9.73	242101
BNC Jack to N Jack	Gold	Nickel	ACX1358-ND	17.23	10.77	9.73	242100
BNC Plug to N Plug	Gold	Nickel	ACX1359-ND	17.23	10.77	9.73	242122
N Jack to BNC Jack	Gold	Nickel	ACX1360-ND	28.72	17.95	16.21	242162
N Plug to TNC Jack	Gold	Nickel	ACX1361-ND	17.23	10.77	9.73	242130

*Reverse Polarity

Description	Center Contact	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Amphenol Part No.
N Plug to TNC Jack	Nickel	Nickel	ACX1362-ND*	17.23	10.77	9.73	242130RP
N Jack to TNC Plug	Gold	Nickel	ACX1363-ND	11.49	7.18	6.48	242131
N Jack to TNC Plug	Gold	Nickel	ACX1364-ND*	17.23	10.77	9.73	242131RP
N Jack to TNC Jack	Gold	Nickel	ACX1365-ND	17.23	10.77	9.73	242132
N Jack to TNC Jack	Gold	Nickel	ACX1366-ND*	17.23	10.77	9.73	242132RP
N Plug to TNC Plug	Gold	Nickel	ACX1367-ND	17.23	10.77	9.73	242133
N Plug to TNC Plug	Gold	Nickel	ACX1368-ND*	17.23	10.77	9.73	242133RP
N Plug to F Jack, Waterproof	Gold	Nickel	ACX1369-ND	11.49	7.18	6.48	242156
N Plug to 7/16 Jack	Silver	Nexcote	ACX1370-ND	57.44	35.90	32.43	242135
N Jack to 7/16 Plug	Silver	Nexcote	ACX1371-ND	57.44	35.90	32.43	242136
N Jack to 7/16 Jack	Silver	Nexcote	ACX1372-ND	57.44	35.90	32.43	242137
N Plug to 7/16 Plug	Silver	Silver	ACX1373-ND	57.44	35.90	32.43	242138
N Bulkhead Jack to 7/16 Jack	Silver	Nexcote	ACX1374-ND	54.19	33.87	30.59	272183
N Jack to SMB Jack Panel	Gold	Nickel	ACX1375-ND	17.23	10.77	9.73	242198
N Bulkhead Jack to SMB Jack	Gold	Nickel	ACX1376-ND	17.23	10.77	9.73	242183
BNC Plug to TNC Jack	Gold	Nickel	ACX1377-ND	17.23	10.77	9.73	242148
TNC Plug to BNC Jack	Gold	Nickel	ACX1378-ND	6.89	4.31	3.89	242149
BNC Jack to TNC Jack	Gold	Nickel	ACX1379-ND	17.23	10.77	9.73	242150
BNC Plug to TNC Plug	Gold	Nickel	ACX1380-ND	17.23	10.77	9.73	242151
BNC Plug to F Jack	Gold	Nickel	ACX1381-ND	17.23	10.77	9.73	242154
BNC Jack to F Plug	Gold	Nickel	ACX1382-ND	17.23	10.77	9.73	242159
BNC Jack to F Jack	Gold	Nickel	ACX1383-ND	17.23	10.77	9.73	242161
BNC Plug to F Plug	Gold	Nickel	ACX1384-ND	11.49	7.18	6.48	242160
BNC Plug to SMB Jack	Gold	Nickel	ACX1385-ND	17.23	10.77	9.73	242184
BNC Jack to SMB Plug	Gold	Nickel	ACX1386-ND	11.49	7.18	6.48	242185
BNC Jack to SMB Jack	Gold	Nickel	ACX1387-ND	17.23	10.77	9.73	242186
BNC Plug to SMB Plug	Gold	Nickel	ACX1388-ND	17.23	10.77	9.73	242187
SMA Plug with AMC Jack	Gold	Gold	ACX1389-ND	17.23	10.77	9.73	242212
AMC Jack to TNC Bulkhead Jack	Gold	Nickel	ACX1390-ND	17.23	10.77	9.73	242192
AMC Jack to TNC Bulkhead Jack	Gold	Nickel	ACX1391-ND*	17.23	10.77	9.73	242192RP
AMC Jack to N Bulkhead Jack	Gold	Nickel	ACX1392-ND	17.23	10.77	9.73	242216

Hand Tools and Die Sets for ACX Connectors

Description	Cable Group	Digi-Key Part No.	Price Each 1	Amphenol Part No.
Tool Crimp with Dies	RG 55, 58, 59, 62, 141, 142, 223, 303, 400	ACX1393-ND	60.00	47-10070
Tool Crimp with Dies	RG 174, 188, 316, 179, 187, 180, 195, 178, 196	ACX1394-ND	60.00	47-10150
Tool Crimp with Dies	.151 Hex 316, 179, Double Braid	ACX1395-ND	60.00	47-10160
Tool Crimp with Dies	RG 8, 213, 214, 393, 58, 141, 223, 142, 400 N Series	ACX1396-ND	60.00	47-10230
Tool Crimp with Dies	RG 6, 59, B8281	ACX1397-ND	60.00	47-10110
Tool Crimp with Dies	RG 58, 174, 188, 316, 179, 187, 142, 141, 223, 400, 55	ACX1398-ND	60.00	47-10120
Tool Crimp with Dies	5 Cavity RG 58, 59N, BNC, TNC, SMA	ACX1399-ND	60.00	47-10180
Tool Crimp with Dies	LMR 400, B9913, 9914, B7810A	ACX1400-ND	60.00	47-10210
Tool Frame	LMR 600	ACX1401-ND	310.00	47-4009-20
Die Set	LMR 600	ACX1402-ND	110.00	47-4009-1

Amphenol®RF “FAKRA” SMB Connectors

With recent advancements in communications technology and increased consumer demand for a diverse array of on-board telematics services, RF communications systems have become indispensable components of the modern automobile. To keep RF interconnection costs low and ensure high levels of electrical and mechanical performance the German and American automotive industries have standardized a high-performing, cost-effective RF connector based on the FAKRA and USCAR standards.

Utilizing a standard metal SMB connector embedded within a plastic housing that can be designed with multiple colored codes for easy identification, FAKRA connectors are designed to perform up to 4 GHz and meet the particular mechanical and environmental requirements of the automobile industry.

FEATURES: Electrical: Impedance: 50Ω. Frequency Range: DC-4GHz. Performance Specification: SAE/USCAR-17. Insulation Resistance: 1000MΩ minimum. Center Contact Resistance: center contact <20mΩ; outer contact <10mΩ. Dielectric Withstanding Voltage (sea level): >1000VRMS.

Mechanical: Durability (matings): 100 minimum. Plastic Housing Engagement Force: ≤ 20 N. Plastic Housing Disengagement Force: ≥ 25 N. Coding: 13 mechanical and colored codings. Operating Temperature Range: -40°C ~ 115°C.

Materials: Plastic Housing: PBT with 15% Glass Fiber. Secondary Locking Clip: PBT with 15% Glass Fiber. Center Contact (female): Beryllium Copper; (male): Brass. Body: Brass. Barrel: Brass. Retainer Ring: Beryllium Copper. Ferrule: Copper. Insulator: TFE. Center Contact Plating: Gold. Body, Barrel and Ferrule Plating: Nickel.

Fig. 1

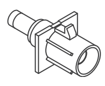

Single Male

Fig. 2

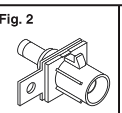

Single Male with Bracket

Fig. 3

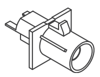

Single Male Edgecard with Support Legs

Fig. 4

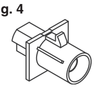

Single Male Edgecard without Support Legs

Fig. 5

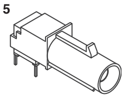

Single Male R/A PCB with Extended Housing

Fig. 6

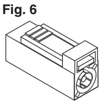

Single Female

Fig. 7

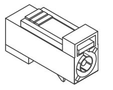

Single Female with Clip Provision at 6 o’clock

Fig. 8

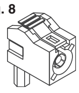

Single R/A Female

Fig. 9

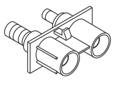

Dual Male

Fig. 10

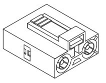

Dual Female

FAKRA Keying Codes

Female Housings

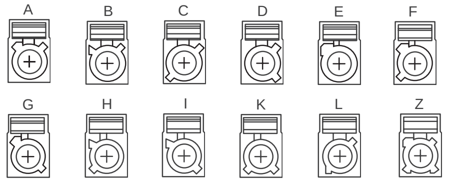

Mechanical and Color Coding

Coding	Rib Combination	Color	Similar RAL No.
A	A - B1	Deep Black	9005
B	A - B2	Signal White	9003
C	A - C	Signal Blue	5005
D	A - D	Bordeaux Violet	4004
E	B1 - B2	Leaf Green	6002
F	B1 - C	Brown	8011
G	B1 - D	Blue Grey	7031
H	B2 - C	Heather Violet	4003
I	B2 - D	Beige	1001
K	C - D	Curry Yellow	1027
L	A - E	Dahlia Yellow	1033
Z	Neutral Coding	Water Blue	5021

Male Housings

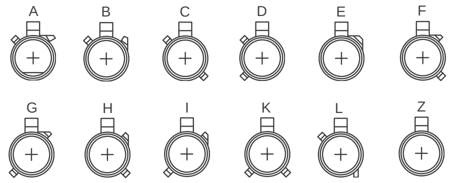

Fig.	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	100	Amphenol Part No.
	FAKRA Coding “A” (Deep Black)						
1	RG-174, 188, 316	ARF1253-ND	3.27	2.73	1.77	1.64	FA1-NASP-C01-1
	RG-58, 141	ARF1255-ND	3.38	2.82	1.83	1.70	FA1-NASP-C04-1
2	5RG-174, 188, 316	ARF1252-ND	3.87	3.23	2.09	1.94	FA1-NASP-C01-0
	RG-58, 141	ARF1254-ND	3.62	3.02	1.96	1.82	FA1-NASP-C04-0
3	—	ARF1256-ND	3.93	3.28	2.12	1.97	FA1-NASP-PCB-0
4	—	ARF1257-ND	3.35	2.79	1.81	1.68	FA1-NASP-PCB-1
5	—	ARF1274-ND	3.42	2.85	1.85	1.71	FA1-NARP-PCB-9
6	Cables with .057 OD	ARF1250-ND	4.11	3.43	2.22	2.06	FA1-NASJ-C09-0
	RG-178, .071 OD Cables	ARF1251-ND	4.11	3.43	2.22	2.06	FA1-NASJ-C10-0
	RG-174, 188, 316	ARF1266-ND	3.59	2.99	1.94	1.80	FA1-NASJ-C01-0
	RG-58, 141	ARF1268-ND	3.69	3.08	1.99	1.85	FA1-NASJ-C04-0
7	RG-174, 188, 316	ARF1267-ND	3.69	3.08	1.99	1.85	FA1-NASJ-C01-6
	RG-58, 141	ARF1269-ND	3.80	3.17	2.05	1.90	FA1-NASJ-C04-6
8	RG-174, 188, 316	ARF1272-ND	4.11	3.43	2.22	2.06	FA1-NARJ-C01-0
	RG-58, 141	ARF1273-ND	4.31	3.60	2.33	2.16	FA1-NARJ-C04-0
	FAKRA Coding “B” (Signal White)						
1	RG-174, 188, 316	ARF1278-ND	3.27	2.73	1.77	1.64	FA1-NBSP-C01-1
	RG-58, 141	ARF1280-ND	3.38	2.82	1.83	1.70	FA1-NBSP-C04-1
2	RG-174, 188, 316	ARF1277-ND	3.48	2.91	1.88	1.75	FA1-NBSP-C01-0
3	—	ARF1281-ND	3.28	2.74	1.77	1.64	FA1-NBSP-PCB-0
4	—	ARF1282-ND	3.35	2.79	1.81	1.68	FA1-NBSP-PCB-1
5	—	ARF1286-ND	3.93	3.28	2.12	1.97	FA1-NBRP-PCB-9
6	RG-174, 188, 316	ARF1287-ND	3.59	2.99	1.94	1.80	FA1-NBSJ-C01-0
	RG-58, 141	ARF1289-ND	3.69	3.08	1.99	1.85	FA1-NBSJ-C04-0
	RG-178, .071 OD Cables	ARF1292-ND	4.11	3.43	2.22	2.06	FA1-NBSJ-C10-0
7	RG-174, 188, 316	ARF1288-ND	3.69	3.08	1.99	1.85	FA1-NBSJ-C01-6
	RG-58, 141	ARF1290-ND	3.80	3.17	2.05	1.90	FA1-NBSJ-C04-6
8	RG-174, 188, 316	ARF1275-ND	4.11	3.43	2.22	2.06	FA1-NBRJ-C01-0
	RG-58, 141	ARF1276-ND	4.31	3.60	2.33	2.16	FA1-NBRJ-C04-0
9	RG-58/RG-174 Combo Design	ARF1297-ND	6.87	5.73	3.70	3.44	FA2-NBSP-C00-9
	FAKRA Coding “C” (Signal Blue)						
1	RG-174, 188, 316	ARF1316-ND	3.27	2.73	1.77	1.64	FA1-NCSP-C01-1
	RG-58, 141	ARF1317-ND	3.38	2.82	1.83	1.70	FA1-NCSP-C04-1
2	RG-174, 188, 316	ARF1300-ND	3.48	2.91	1.88	1.75	FA1-NCSP-C01-0
	RG-58, 141	ARF1301-ND	3.62	3.02	1.96	1.82	FA1-NCSP-C04-0
3	—	ARF1302-ND	3.93	3.28	2.12	1.97	FA1-NCSP-PCB-0
4	—	ARF1303-ND	3.35	2.79	1.81	1.68	FA1-NCSP-PCB-1
5	—	ARF1309-ND	2.73	2.28	1.47	1.37	FA1-NCRP-PCB-9
6	RG-174, 188, 316	ARF1310-ND	3.59	2.99	1.94	1.80	FA1-NCSJ-C01-0
	RG-58, 141	ARF1312-ND	3.69	3.08	1.99	1.85	FA1-NCSJ-C04-0
	RG-178, .071 OD Cables	ARF1315-ND	4.11	3.43	2.22	2.06	FA1-NCSJ-C10-0
7	RG-174, 188, 316	ARF1311-ND	3.69	3.08	1.99	1.85	FA1-NCSJ-C01-6
	RG-58, 141	ARF1313-ND	3.80	3.17	2.05	1.90	FA1-NCSJ-C04-6
8	RG-174, 188, 316	ARF1307-ND	4.11	3.43	2.22	2.06	FA1-NCRJ-C01-0
	RG-58, 141	ARF1308-ND	4.31	3.60	2.33	2.16	FA1-NCRJ-C04-0
9	RG-174, 188, 316	ARF1323-ND	6.73	5.61	3.63	3.37	FA2-NCSP-C01-9
10	RG-174, 188, 316	ARF1318-ND	7.76	6.47	4.18	3.89	FA2-NCSJ-C01-0
	FAKRA Coding “D” (Bordeaux Violet)						
1	RG-174, 188, 316	ARF1343-ND	3.27	2.73	1.77	1.64	FA1-NDSP-C01-1
	RG-58, 141	ARF1344-ND	3.38	2.82	1.83	1.70	FA1-NDSP-C04-1
2	RG-174, 188, 316	ARF1331-ND	3.48	2.91	1.88	1.75	FA1-NDSP-C01-0
3	—	ARF1333-ND	3.28	2.74	1.77	1.64	FA1-NDSP-PCB-0
5	—	ARF1328-ND	2.73	2.28	1.47	1.37	FA1-NDRP-PCB-9
6	RG-178, .071 OD Cables	ARF1330-ND	4.11	3.43	2.22	2.06	FA1-NDSJ-C10-0
	RG-174, 188, 316	ARF1339-ND	3.59	2.99	1.94	1.80	FA1-NDSJ-C01-0
	RG-58, 141	ARF1341-ND	3.69	3.08	1.99	1.85	FA1-NDSJ-C04-0
7	RG-174, 188, 316	ARF1340-ND	3.69	3.08	1.99	1.85	FA1-NDSJ-C01-6
	RG-58, 141	ARF1342-ND	3.80	3.17	2.05	1.90	FA1-NDSJ-C04-6
8	RG-174, 188, 316	ARF1337-ND	4.11	3.43	2.22	2.06	FA1-NDRJ-C01-0
	RG-58, 141	ARF1338-ND	4.31	3.60	2.33	2.16	FA1-NDRJ-C04-0
	FAKRA Coding “E” (Leaf Green)						
1	RG-174, 188, 316	ARF1356-ND	3.21	2.68	1.73	1.61	FA1-NESP-C01-1
	RG-58, 141	ARF1358-ND	3.38	2.82	1.83	1.70	FA1-NESP-C04-1
2	RG-174, 188, 316	ARF1355-ND	3.48	2.91	1.88	1.75	FA1-NESP-C01-0
	RG-58, 141	ARF1357-ND	3.62	3.02	1.96	1.82	FA1-NESP-C04-0
5	—	ARF1371-ND	2.73	2.28	1.47	1.37	FA1-NERP-PCB-9
6	RG-174, 188, 316	ARF1372-ND	3.59	2.99	1.94	1.80	FA1-NESJ-C01-0
	RG-58, 141	ARF1374-ND	3.69	3.08	1.99	1.85	FA1-NESJ-C04-0
	Cables with .057 OD	ARF1376-ND	4.11	3.43	2.22	2.06	FA1-NESJ-C09-0
	RG-178, .071 OD Cables	ARF1377-ND	4.11	3.43	2.22	2.06	FA1-NESJ-C10-0
7	RG-174, 188, 316	ARF1373-ND	3.69	3.08	1.99	1.85	FA1-NESJ-C01-6
	RG-58, 141	ARF1375-ND	3.80	3.17	2.05	1.90	FA1-NESJ-C04-6
9	RG-174, 188, 316	ARF1368-ND	6.73	5.61	3.63	3.37	FA2-NESP-C01-9
10	RG-174, 188, 316	ARF1361-ND	7.76	6.47	4.18	3.89	FA2-NESJ-C01-0
	FAKRA Coding “F” (Brown)						
2	RG-174, 188, 316	ARF1383-ND	3.48	2.91	1.88	1.75	FA1-NFSP-C01-0
5	—	ARF1380-ND	3.93	3.28	2.12	1.97	FA1-NFRP-PCB-9
6	RG-174, 188, 316	ARF1399-ND	3.59	2.99	1.94	1.80	FA1-NFSJ-C01-0
9	RG-174, 188, 316	ARF1396-ND	6.73	5.61	3.63	3.37	FA2-NFSP-C01-9
10	RG-174, 188, 316	ARF1389-ND	7.76	6.47	4.18	3.89	FA2-NFSJ-C01-0
	FAKRA Coding “G” (Blue Grey)						
1	RG-174, 188, 316	ARF1408-ND	3.21	2.68	1.73	1.61	FA1-NGSP-C01-1
5	—	ARF1405-ND	2.73	2.28	1.47	1.37	FA1-NGRP-PCB-9
6	RG-174, 188, 316	ARF1413-ND	3.59	2.99	1.94	1.80	FA1-NGSJ-C01-0
	RG-58, 141	ARF1415-ND	3.69	3.08	1.99	1.85	FA1-NGSJ-C04-0
8	RG-174, 188, 316	ARF1403-ND	4.11	3.43	2.22	2.06	FA1-NGRJ-C01-0
	FAKRA Coding “H” (Heather Violet)						
5	—	ARF1420-ND	3.93	3.28	2.12	1.97	FA1-NHRP-PCB-9
6	Cables with .057 OD	ARF1421-ND	4.11	3.43	2.22	2.06	FA1-NHSJ-C09-0
	RG-174, 188, 316	ARF1428-ND	3.59	2.99	1.94	1.80	FA1-NHSJ-C01-0
	FAKRA Coding “I” (Beige)						
3	—	ARF1442-ND	3.28	2.74	1.77	1.64	FA1-NISP-PCB-0
5	—	ARF1435-ND	2.73	2.28	1.47	1.37	FA1-NIRP-PCB-9
6	Cables with .057 OD	ARF1436-ND	4.11	3.43	2.22	2.06	FA1-NISJ-C09-0
	RG-178, .071 OD Cables	ARF1437-ND	4.11	3.43	2.22	2.06	FA1-NISJ-C10-0
	RG-174, 188, 316	ARF1444-ND	3.59	2.99	1.94	1.80	FA1-NISJ-C01-0
7	RG-174, 188, 316	ARF1445-ND	3.69	3.08	1.99	1.85	FA1-NISJ-C01-6
	RG-58, 141	ARF1447-ND	3.80	3.17	2.05	1.90	FA1-NISJ-C04-6
	FAKRA Coding “K” (Curry Yellow)						
1	RG-174, 188, 316	ARF1481-ND	3.27	2.73	1.77	1.64	FA1-NKSP-C01-1
	RG-58, 141	ARF1483-ND	3.38	2.82	1.83	1.70	FA1-NKSP-C04-1
2	RG-174, 188, 316	ARF1480-ND	3.87	3.23	2.09	1.94	FA1-NKSP-C01-0
	RG-58, 141	ARF1482-ND	3.62	3.02	1.96	1.82	FA1-NKSP-C04-0
3	—	ARF1484-ND	3.28	2.74	1.77	1.64	FA1-NKSP-PCB-0
5	—	ARF1486-ND	3.42	2.85	1.85	1.71	FA1-NKRP-PCB-9
6	RG-174, 188, 316	ARF1487-ND	3.59	2.99	1.94	1.80	FA1-NKSJ-C01-0
	RG-58, 141	ARF1489-ND	3.69	3.08	1.99	1.85	FA1-NKSJ-C04-0
	Cables with .057 OD	ARF1491-ND	4.11	3.43	2.22	2.06	FA1-NKSJ-C09-0
	RG-178, .071 OD Cables	ARF1492-ND	4.11	3.43	2.22	2.06	FA1-NKSJ-C10-0
7	RG-174, 188, 316	ARF1488-ND	3.69	3.08	1.99	1.85	FA1-NKSJ-C01-6
	RG-58, 141	ARF1490-ND	3.80	3.17	2.05	1.90	FA1-NKSJ-C04-6
8	RG-174, 188, 316	ARF1478-ND	4.11	3.43	2.22	2.06	FA1-NKRJ-C01-0
	FAKRA Coding “L” (Dahlia Yellow)						
8	RG-174, 188, 316	ARF1493-ND	4.11	3.43	2.22	2.06	FA1-NLRJ-C01-0
	RG-58, 141	ARF1494-ND	4.31	3.60	2.33	2.16	FA1-NLRJ-C04-0
	FAKRA Coding “Z” (Water Blue)						
1	RG-174, 188, 316	ARF1533-ND	3.27	2.73	1.77	1.64	FA1-NZSP-C01-1
	RG-58, 141	ARF1535-ND	3.38	2.82	1.83	1.70	FA1-NZSP-C04-1
2	RG-174, 188, 316	ARF1532-ND	3.48	2.91	1.88	1.75	FA1-NZSP-C01-0
3	—	ARF1536-ND	3.28	2.74	1.77	1.64	FA1-NZSP-PCB-0
4	—	ARF1537-ND	3.35	2.79	1.81	1.68	FA1-NZSP-PCB-1
5	—	ARF1525-ND	2.73	2.28	1.47	1.37	FA1-NZRP-PCB-9
6	RG-174, 188, 316	ARF1526-ND	3.59	2.99	1.94	1.80	FA1-NZSJ-C01-0
	RG-58, 141	ARF1528-ND	3.69	3.08	1.99	1.85	FA1-NZSJ-C04-0
	RG-178, .071 OD Cables	ARF1531-ND	4.11	3.43	2.22	2.06	FA1-NZSJ-C10-0
7	RG-174, 188, 316	ARF1527-ND	3.69	3.08	1.99	1.85	FA1-NZSJ-C01-6
8	RG-174, 188, 316	ARF1523-ND	4.11	3.43	2.22	2.06	FA1-NZRJ-C01-0
	RG-58, 141	ARF1524-ND	4.31	3.60	2.33	2.16	FA1-NZRJ-C04-0

SMA and SMB Connectors

Fig. 1

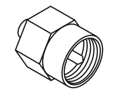

Fig. 2

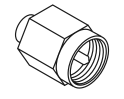

Fig. 3

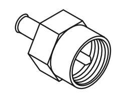

Fig. 4

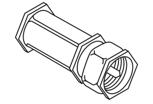

Fig. 5

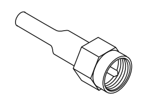

Fig. 6

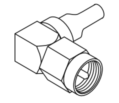

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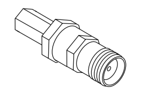

Fig. 8

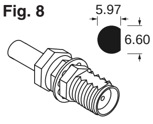

Fig. 9

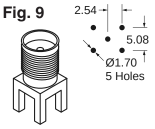

Fig. 10

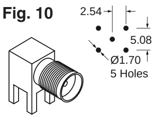

Fig. 11

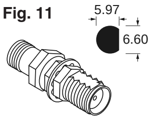

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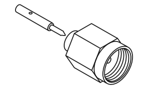

Fig. 13

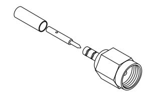

Fig. 14

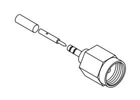

Fig. 15

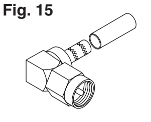

Fig. 16

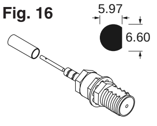

Fig. 17

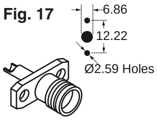

Fig. 18

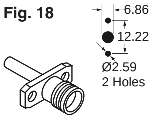

Fig. 19

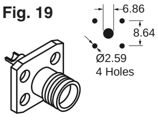

Fig. 20

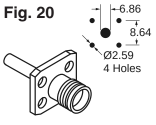

Fig. 21

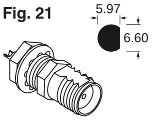

Fig. 22

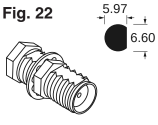

Fig. 23

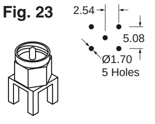

Fig. 24

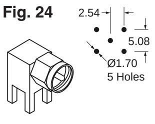

Fig. 25

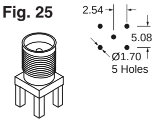

Fig. 26

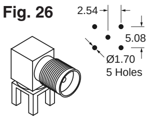

Fig. 27

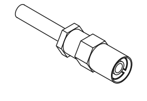

Fig. 28

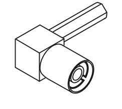

Fig. 29

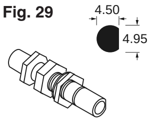

Fig. 30

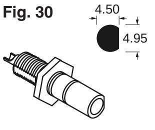

Fig. 31

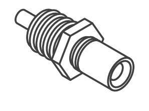

Fig. 32

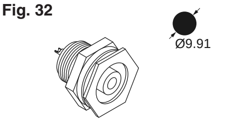

Fig. 33

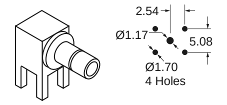

Fig. 34

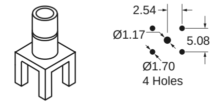

SMA Coaxial Connectors

		Cable Group	Body	Cable Attachment		Digi-Key	Pricing			Amphenol
Fig.	Description	RG/U	Plating	Outer	Inner	Part No.	1	25	100	Part No.
1	Plug, Straight	.085” (2.2mm) RG-405 (M17/133)	Gold	Solder	Plugable	ARF1184-ND	6.08	105.75	377.00	901-9723
2	Plug, Straight	.141” (3.6mm) RG-402 (M17/130)	Gold	Solder	Plugable	ARF1185-ND	6.08	105.75	377.00	901-9808
3	Plug, Straight	.085” (2.2mm) RG-405 (M17/133)	Gold	Solder	Plugable	ARF1186-ND	6.47	112.50	401.00	901-9805-HP
4	Plug, Straight	55, 58, 141, 142, 223	Gold	Clamp	Solder	ARF1187-ND*	56.35	1115.00	3937.00	901-103
	Plug, Straight	174, 316	Gold	Clamp	Solder	ARF1188-ND*	40.66	842.50	3077.00	901-128-11
5	Plug, Straight	55B, 142B, 223, 400	Gold	Crimp	Solder	ARF1189-ND	8.55	148.75	583.00	901-9511-1
	Plug, Straight	55B, 142B, 223, 400	Passivated	Crimp	Solder	ARF1190-ND	7.69	134.00	476.00	901-9511-1SF
	Plug, Straight	174, 178, 187, 188, 316	Gold	Crimp	Solder	ARF1191-ND	8.00	139.00	484.00	901-9511-3
	Plug, Straight	174, 178, 187, 188, 316	Passivated	Crimp	Solder	ARF1192-ND	6.96	121.00	431.00	901-9511-3SF
	Plug, Straight	Dbl. Braid RG-188, 316	Passivated	Crimp	Solder	ARF1193-ND	7.91	137.25	490.00	901-9511-12SF
6	Plug, Right Angle	55, 141, 142, 223	Gold	Crimp	Solder	ARF1194-ND	12.44	216.25	772.00	901-9531-1
	Plug, Right Angle	SF 142B, Times AA-2423	Passivated	Crimp	Solder	ARF1195-ND	9.94	182.75	723.00	901-9531-1SF
	Plug, Right Angle	174, 179, 187, 188, 316	Gold	Crimp	Solder	ARF1196-ND	12.50	217.25	776.00	901-9531-3
	Plug, Right Angle	174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1197-ND	9.11	158.00	564.00	901-9531-3SF
	Plug, Right Angle	Double Braid RG-316	Gold	Crimp	Solder	ARF1198-ND	12.96	225.25	804.00	901-9531-12
	Plug, Right Angle	Double Braid RG-316	Passivated	Crimp	Solder	ARF1199-ND	9.16	159.75	569.00	901-9531-12SF
7	Jacks	174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1201-ND	41.62	769.00	2742.00	901-9602-3SF
8	Jacks, Bulkhead	55, 142, 223, 400	Passivated	Crimp	Solder	ARF1202-ND	23.54	409.50	1459.00	901-9610-1SF
	Jacks, Bulkhead	174, 179, 187, 188, 316	Gold	Crimp	Solder	ARF1203-ND	17.17	298.75	1065.00	901-9610-3
	Jacks, Bulkhead	174, 179, 187, 188, 316	Passivated	Crimp	Solder	ARF1204-ND	15.51	269.50	960.00	901-9610-3SF
9	Jacks, Printed Circuit Board, Panel	—	Gold	—	—	ARF1205-ND	9.41	164.00	570.00	901-144
10	Jacks, Printed Circuit Board, Angle	—	Gold	—	—	ARF1206-ND	11.59	201.25	718.00	901-143
11	Adapters, Bulkhead Jack-Jack, Front or Rear Mt.	—	Gold	—	—	ARF1207-ND	14.95	259.75	927.00	901-9209A
11	Adapters, Bulkhead Jack-Jack, Front or Rear Mt.	—	Passivated	—	—	ARF1208-ND	13.31	231.25	824.00	901-9209-ASF

* Safety wire holes.

SMA Brass Coaxial Connectors

		Cable Group	Body	Cable Attachment		Digi-Key	Pricing			Amphenol
Fig.	Description	RG/U	Plating	Outer	Inner	Part No.	1	25	100	Part No.
12	Plug, Straight	.141” (3.6mm) S/R	Gold	Solder	Solder	ARFX1209-ND	3.41	59.25	211.00	901-9868-RFX
	Plug, Straight	.085” (2.16mm) S/R	Gold	Solder	Solder	ARF1210-ND	2.80	48.75	174.00	901-9867-RFX
13	Plug, Straight	58	Gold	Crimp	Solder	ARF1211-ND	5.38	93.50	333.00	901-9870
	Plug, Straight	141, 223	Gold	Crimp	Solder	ARF1212-ND	5.65	98.25	351.00	901-9871
	Plug, Straight	58	Nickel	Crimp	Solder	ARFX1213-ND	3.08	53.50	191.00	901-9876-RFX
14	Plug, Straight	174, 188, 316	Nickel	Crimp	Solder	ARFX1214-ND	3.02	52.50	187.00	901-9877-RFX
	Plug, Straight	174, 188, 316	Gold	Crimp	Solder	ARF1215-ND	5.34	92.75	330.00	901-9916
15	Plug, Right Angle	174, 188, 316	Gold	Crimp	Solder	ARF1216-ND	8.95	155.75	556.00	901-9872
	Plug, Right Angle	58	Gold	Crimp	Solder	ARF1217-ND	9.51	165.50	590.00	901-9873
	Plug, Right Angle	141, 223	Gold	Crimp	Solder	ARF1218-ND	8.89	154.64	537.20	901-9874
	Plug, Right Angle	58	Nickel	Crimp	Solder	ARFX1219-ND	5.10	88.50	316.00	901-9880-RFX
	Plug, Right Angle	174, 188, 316	Nickel	Crimp	Solder	ARFX1220-ND	5.05	87.75	314.00	901-9881-RFX
16	Bulkhead Jack	174, 188, 316	Gold	Crimp	Solder	ARF1221-ND	8.03	139.75	497.00	901-9875
	Bulkhead Jack	174, 188, 316	Nickel	Crimp	Solder	ARFX1222-ND	6.77	117.75	420.00	901-9879-RFX
17	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1223-ND	5.12	88.75	317.00	901-9893-RFX
18	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1224-ND	6.27	109.25	390.00	901-9891-RFX
19	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1225-ND	5.16	89.75	320.00	901-9892-RFX
20	Panel Receptacle, Jack	—	Nickel	—	—	ARFX1226-ND	6.94	120.50	429.00	901-9887-RFX
21	Bulkhead Recep. Front Mt.	—	Nickel	—	—	ARFX1227-ND	4.52	78.75	281.00	901-9889-RFX
22	Bulkhead Recep. Rear Mt.	—	Nickel	—	—	ARFX1228-ND	4.52	78.75	281.00	901-9890-RFX
23	Plug Straight PCB Recep.	—	Gold	—	—	ARFX1229-ND	3.98	69.25	247.00	901-9895-RFX
24	Plug Rt. Angle PCB Recep.	—	Gold	—	—	ARFX1230-ND	7.41	129.00	459.00	901-9894-RFX
25	Receptacle,Straight PCB	—	Gold	—	—	ARFX1231-ND	3.97	69.00	241.00	901-144-8RFX
26	Recep., Right Angle PCB	—	Gold	—	—	ARFX1232-ND	5.97	103.75	371.00	901-143-6RFX

SMB Coaxial Connectors

		Cable Group		Cable Attachment		Digi-Key	Pricing			Amphenol
Fig.	Description	RG/U	Plating	Outer	Inner	Part No.	1	25	100	Part No.
27	Plug, Straight	RG-174, 179, 187,188, 316	Nickel	Crimp	Solder	ARF1233-ND	6.02	117.50	426.00	903-370P-51S
28	Plug, Right Angle	RG-174, 179, 187,188, 316	Nickel	Crimp	Solder	ARF1235-ND	4.22	77.25	282.00	903-367P-51A2
	Plug, Right Angle	RG-174, 179, 187,188, 316	Gold	Crimp	Solder	ARF1245-ND	7.03	169.31	588.66	903-289P-51A
	Plug, Right Angle	RG-178, 196	Gold	Crimp	Solder	ARF1236-ND	5.31	119.50	425.00	903-291P-51A1
	Plug, Right Angle	RG-178, 196	Nickel	Crimp	Solder	ARF1237-ND	4.13	83.50	296.00	903-368P-51A1
29	Bulkhead Jack	RG-174,188A, 316	Gold	Crimp	Solder	ARF1238-ND	6.53	113.50	404.00	903-505J-51S
	Bulkhead Jack	Dbl. Shield 316	Gold	Crimp	Solder	ARF1239-ND	6.53	113.50	404.00	903-505J-51S1

			Digi-Key	Pricing			Amphenol
Fig.	Description	Plating	Part No.	1	25	100	Part No.
30	Bulkhead, Recept. Front Mount Solder Cup Terminal	Gold	ARF1240-ND	5.63	97.75	350.00	903-406J-51R
31	Bulkhead, Recept. Front Mount Blunt Post Terminal	Gold	ARF1241-ND	4.62	80.50	287.00	903-402J-51R
32	Bulkhead Jack, Recept. Recessed, Solder Cup Term.	Gold	ARF1242-ND	32.50	524.25	1942.00	903-407J-51R
33	Jack Right Angle	Tin Lead (Body & Legs) Gold (Interface & Term.)	ARF1243-ND	6.57	114.25	397.00	903-373J-51A
34	Jack Straight	Gold	ARF1244-ND	3.83	66.75	238.00	903-499J-51P2

Fig. 1

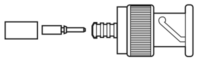

MIL-Crimp 3 Piece

Fig. 2

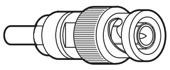

Original Crimp

Fig. 3

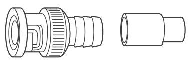

Single Crimp 2 Piece

Fig. 4

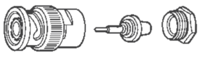

Quick Trim

Fig. 5

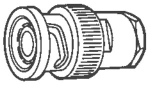

MIL-Clamp

Fig. 6

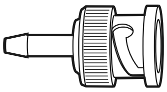

FCP

Fig. 7

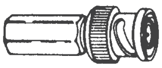

Suretwist®

Fig. 8

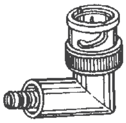

Angle Plug

Fig. 9

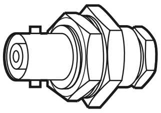

MIL-Clamp Jack

Fig. 10

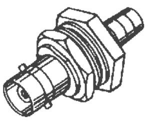

MIL-Crimp Bulkhead Jack

Fig. 11

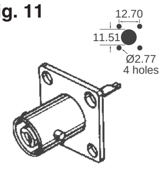

Panel Receptacle

Fig. 12

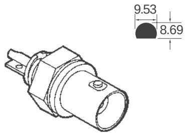

Bulkhead Jack Isolated

Fig. 13

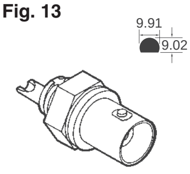

Bulkhead Receptacle

Fig. 14

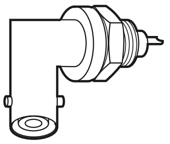

BNC Coaxial Connectors

Fig.	Description	Cable Group RG/U	Crimp Tool Part No.	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Amphenol Part No.
1	Plug (MIL-Crimp)	58, 141, 142	CTL-1	ARF1039-ND	7.56	85.93	298.11	31-320
	Plug (MIL-Crimp)	58, 141, 142	CTL-1	ARFX1039-ND*	1.95	32.50	117.00	31-320-RFX
	Plug (Quick-Crimp)	Plenum 58	CTL-1	ARFX1041-ND*	2.47	27.94	96.93	36650-3RFX
	Plug (MIL-Crimp)	59, 62	CTL-1	ARF1042-ND	7.71	87.68	304.11	31-321
	Plug (MIL-Crimp)	59, 62	CTL-1	ARFX1042-ND*	2.07	34.50	124.20	31-321-RFX
	Plug (MIL-Crimp)	59, 62, 71, 140, 210, 302	CTL-1	ARF1156-ND	6.84	77.64	269.58	68175
	Plug (MIL-Crimp)	Belden 9259	CTL-1	ARF1052-ND	6.94	78.62	272.46	68175-1003
	Plug (MIL-Crimp)	59 (20AWG Ctr. Cond.)	CTL-1	ARF1046-ND	7.55	85.75	297.54	68175-1005
	Plug (MIL-Crimp)	59 (20AWG Ctr. Cond.)	CTL-1	ARFX1046-ND*	2.53	28.81	99.56	68175-5RFX
	Plug (MIL-Crimp)	Plenum 59, 62	CTL-1	ARFX1047-ND*	2.81	31.91	110.46	68175-11RFX
	Plug (MIL-Crimp)	174, 188, 316	CTL-2	ARF1049-ND	8.09	91.85	318.56	31-315
	Plug (MIL-Crimp)	174, 188, 316	CTL-2	ARFX1049-ND*	2.37	39.50	117.37	31-315-RFX
	Plug (MIL-Crimp)	179, 187	CTL-2	ARF1050-ND	10.03	113.91	395.04	31-242
	Plug (MIL-Crimp)	Belden 8281	CTL-2	ARF1051-ND	8.58	97.36	337.50	31-321-1000
	Plug (MIL-Crimp)	Belden 8281	CTL-2	ARFX1051-ND*	3.01	35.25	126.00	31-321-10RFX
	Plug (MIL-Crimp)	Belden 9907, 89907	CTL-1	ARF1054-ND	6.94	78.62	272.46	31-320-1006
	Plug (MIL-Crimp)	59, 62	CTL-1	ARFX1123-ND*	1.95	32.50	97.50	31-71008-RFX
	Plug (MIL-Crimp), 75Ω	59, 62	CTL-1	ARF1175-ND	5.57	63.25	219.56	31-71008
	Plug (MIL-Crimp), 75Ω	59, 62 (20AWG Ctr. Cond.)	CTL-1	ARF1176-ND	5.85	66.52	230.61	31-71008-1000
	Plug (MIL-Crimp), 75Ω	179, 187	CTL-2	ARF1174-ND	6.80	77.37	267.42	31-71013
	Plug (MIL-Crimp), 75Ω	Belden 8218	CTL-2	ARF1173-ND	5.72	65.00	225.56	31-71033
	Plug (MIL-Crimp), 75Ω	Belden 8281, 88281	CTL-2	ARF1172-ND	6.07	68.94	239.06	31-71032
	Plug (Thinnet/Ethernet)	58	CTL-1	ARF1181-ND	3.48	39.74	142.64	31-5800
	Plug (IBM/Arcnet)	59, 62 (20AWG Ctr. Cond.)	CTL-1	ARF1182-ND	3.66	42.39	146.45	31-5900
2	Plug (Original Crimp)	174, 179, 187, 188, 316	—	ARF1143-ND	23.23	231.26	800.46	31-371
3	Plug (Single Crimp)	59, 62	CTL-2	ARFX1124-ND*	3.23	47.78	124.50	31-5556-RFX
4	Plug (Quicktrim®)	59, 62	CTL-1	ARF1045-ND	15.50	226.57	825.28	31-4541
	Plug (Quicktrim®)	59, 62	CTL-1	ARFX1045-ND*	6.50	70.78	245.57	31-4541-RFX
5	Plug (MIL-Clamp)	58	—	ARF1040-ND	6.45	77.11	266.45	31-202
	Plug (MIL-Clamp)	59, 62	—	ARF1043-ND	5.93	86.17	298.16	31-212
	Plug (MIL-Clamp)	59, 62	—	ARFX1043-ND*	2.37	39.50	116.31	31-212-RFX
	Plug (Standard Clamp)	8, 9, 87A, 214, 313, 225	—	ARF1155-ND	33.77	469.63	1626.56	6775
	Plug (Standard Clamp)	55, 58, 141, 142, 223, 400	—	ARF1126-ND	7.01	91.06	315.39	31-2
	Plug (Standard Clamp)	55, 58, 141, 142, 223, 400	—	ARFX1119-ND*	2.52	42.00	126.00	31-2-RFX
	Plug (Standard Clamp)	59, 62, 71, 140, 210, 302	—	ARF1123-ND	13.85	157.39	545.04	31-12
	Plug (MIL-Clamp)	174, 179, 187, 188, 316	—	ARF1157-ND	11.63	132.26	458.06	69475
	Plug (Standard Clamp)	178, 196	—	ARF1120-ND	11.85	134.71	465.93	15875
6	Plug (FCP)	58, 141	—	ARF1145-ND	8.61	97.86	338.46	31-4700
	Plug (FCP)	59	—	ARF1146-ND	8.21	120.34	416.46	31-4702
7	Plug (Suretwist®)	59, 62	—	ARF1044-ND	7.55	85.85	297.62	31-5136
	Plug (Suretwist®)	59, 62	—	ARFX1044-ND*	2.83	32.94	119.88	31-5136-RFX
	Plug (Suretwist®)	58, 141, 142	—	ARFX1147-ND*	2.83	32.94	119.88	31-5137-RFX
	Plug (Suretwist®)	Plenum 59, 62	—	ARF1048-ND	8.88	148.00	473.60	31-5369
8	Angle Plug (MIL-Crimp)	58, 141, 142A	CTL-1	ARF1055-ND	34.78	395.15	1368.54	31-335
	Angle Plug (MIL-Crimp)	58, 141, 142A	CTL-1	ARFX1055-ND*	5.73	95.50	286.50	31-335-RFX
9	Bulkhead Jack (Clamp)	55, 58, 141, 142, 223, 400	—	ARF1127-ND	11.27	128.22	443.99	31-206
10	Bulkhead Jack (MIL-Crimp)	55, 58, 141, 142, 223, 400	CTL-1	ARF1060-ND	10.63	187.54	649.50	31-342
	Bulkhead Jack (MIL-Crimp)	55, 58, 141, 142, 223, 400	CTL-1	ARFX1060-ND*	4.47	48.43	169.50	31-342-RFX
	Bulkhead Jack (MIL-Crimp)	59, 62, 140, 210	CTL-1	ARFX1061-ND*	6.23	70.91	245.59	31-343-RFX

* RFX connectors. RFX™ is specifically designed for applications that do not require performance above 1 to 3 GHz. RFX™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors.

(Continued)

BNC Coaxial Connectors

Fig. 15

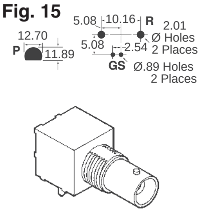

Fig. 16

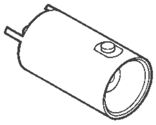

Fig. 17

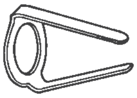

Fig. 18

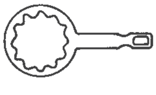

Fig. 19

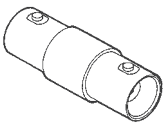

Fig. 20

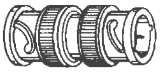

Fig. 21

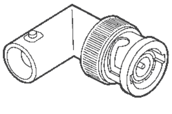

Fig. 22

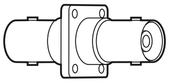

Fig. 23

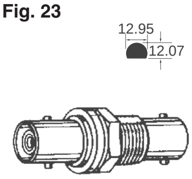

Fig. 24

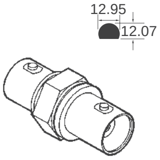

Fig. 25

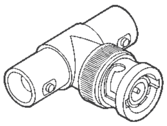

Fig. 26

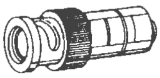

Fig. 27

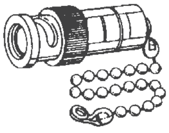

Fig.	Description	Cable Group RG/U	Crimp Tool Part No.	Digi-Key Part No.	Pricing			Amphenol Part No.
					1	25	100	
10	Bulkhead Jack (MIL-Crimp)	174, 188, 316	CTL-2	ARF1139-ND	14.96	169.81	588.54	31-318
	Bulkhead Jack (MIL-Crimp)	174, 188, 316	CTL-2	ARFX1139-ND*	4.50	75.00	262.23	31-318-RFX
11	Panel Receptacle (Solder)	—	UG-290A	ARF1062-ND	9.80	111.50	395.00	31-203
	Panel Receptacle (Solder)	—	—	ARFX1062-ND*	3.93	65.50	197.61	31-203-RFX
12	Bulkhead Recept. Isolated (Solder)	—	IBM 925390	ARF1063-ND	7.50	85.14	294.94	31-10
	Bulkhead Recept. Isolated (Solder)	—		ARFX1063-ND*	2.88	48.00	144.00	31-10-RFX
	Bulkhead Isolated Recept.	—	—	ARF1121-ND	10.53	119.60	414.54	31-10-75
13	Bulkhead Recept. Pressurized	—	UG-625B	ARF1134-ND	4.21	49.16	171.24	31-236
	Bulkhead Recept.	—	UG-1094/U	ARF1064-ND	3.57	40.64	140.45	31-221
	Bulkhead Recept. (Solder)	—	—	ARFX1064-ND*	3.50	25.54	91.52	31-221-RFX
	Bulkhead Recept.	—	UG-1094A	ARF1131-ND	4.64	52.68	181.89	31-2221
	Bulkhead Recept.	—	—	ARF1149-ND	18.93	214.99	744.47	31-70018
	Bulkhead Recept. Pressurized	—	UG-657	ARF1122-ND	8.79	112.16	389.04	31-102
	Bulkhead Recept. Pressurized	—	UG-912	ARF1136-ND	34.43	391.21	1355.04	31-238
14	Angle Bulkhead Recept.	—	UG-1098	ARF1130-ND	65.19	740.62	2564.45	31-222
15	Rt. Angle Bulkhead Recept.	—	—	ARF1065-ND	7.87	89.43	310.11	31-5431
	Rt. Ang. Bulkhead Recept. With Hardware	—	—	ARF1065NW-ND	8.09	103.31	358.78	31-5431-2010
	Rt. Angle Bulkhead Recept.	75Ω	—	ARF1177-ND	6.78	77.11	266.45	31-71047-1010
	Rt. Angle Bulkhead Recept.	50Ω	—	ARF1178-ND	6.78	77.11	266.45	31-5640-1010
	Rt. Angle Bulkhead Recept. Metal	75Ω	—	ARF1179-ND	6.78	77.11	266.45	31-71043-1010
	Rt. Angle Bulkhead Recept. Low Profile	50Ω	—	ARF1180-ND	7.62	86.49	299.46	31-5486-1010
16	Receptacle Vertical PC	—	—	ARF1066-ND	8.74	99.31	344.04	31-5329
17	Shield Grounding Lug	—	—	ARF1067-ND	.84	9.35	33.00	31-759
18	Grounding Lug	—	—	ARF1068-ND	.86	9.62	32.67	31-10152-RFX
19	Straight/Jack-Jack	—	UG-914/U	ARF1069-ND	7.50	85.14	294.94	31-219
	Straight/Jack-Jack	—	—	ARFX1069-ND*	4.85	59.81	206.98	31-219-RFX
	Straight/Jack-Jack	75Ω	—	ARF1150-ND	8.11	92.17	318.96	31-70019
20	Straight/Plug-Plug	—	—	ARF1070-ND	13.05	162.88	564.00	31-218
	Straight/Plug-Plug	—	—	ARFX1070-ND*	3.93	65.50	197.81	31-218-RFX
21	Angle/Jack-Plug	—	UG-306/U	ARF1071-ND	18.11	205.85	713.04	31-9
	Angle/Jack-Plug	—	—	ARFX1071-ND*	6.54	74.31	268.15	31-9-RFX
	Angle/Jack-Plug	—	UG-306A	ARF1128-ND	19.76	224.40	777.54	31-209
22	Panel/Jack-Jack	—	UG-414	ARF1154-ND	38.40	476.96	1651.65	47000
23	Bulkhead/Jack-Jack, Gasketed	50Ω	—	ARFX1130-ND*	5.44	63.03	218.58	31-220G-RFX
	Bulkhead/Jack-Jack (Sealed)	50Ω	UG-492A	ARF1129-ND	12.07	137.20	475.43	31-220H
	Bulkhead/Jack-Jack, Non-Gasketed	50Ω	—	ARF1072-ND	10.98	124.78	432.01	31-220N
	Bulkhead/Jack-Jack	—	—	ARFX1072-ND*	5.09	57.45	198.87	31-220N-RFX
	Bulkhead/Jack-Jack (Sealed)	—	UG-492D	ARF1140-ND	14.15	160.79	556.28	31-3220
	Bulkhead/Jack-Jack, Gasketed	75Ω	—	ARF1151-ND	27.44	311.62	1078.92	31-70020
24	Bulkhead/Jack-Jack (Ins.)	—	—	ARF1073-ND	18.02	204.70	709.11	31-4803
25	Tee/Jack-Plug-Jack	—	UG-274	ARF1152-ND	17.99	194.98	703.13	31-8
	Tee/Jack-Plug-Jack	50Ω	UG-274A/U	ARF1074-ND	14.28	162.14	562.08	31-208
	Tee/Jack-Plug-Jack	50Ω	—	ARFX1074-ND*	4.89	81.50	239.97	31-208-RFX
26	Res. Cap, 50 Ohm	—	—	ARF1075-ND	20.95	237.93	824.09	46650-51
	Res. Cap, 50 Ohm	—	—	ARFX1075-ND*	3.44	39.04	135.54	46650-51-RFX
	Res. Cap, 75 Ohm	—	—	ARFX1076-ND*	3.56	40.55	140.63	46650-75-RFX
	Res. Cap, 93 Ohm	—	—	ARFX1077-ND*	3.91	44.49	154.22	46650-93-RFX
27	Res. Cap & Chain, 50 Ohm	—	—	ARF1078-ND	22.73	258.25	894.54	35650-51
	Res. Cap & Chain, 75 Ohm	—	—	ARF1079-ND	22.73	258.25	894.54	35650-75

* RFX connectors. RFX™ is specifically designed for applications that do not require performance above 1 to 3 GHz. RFX™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors.

Amphenol® RF RF and RFX Connectors

NEW! Mini BNC Connectors

The Mini BNC series provides the same positive locking bayonet system found on the BNC and allows 40% more interconnects in the same area. **Specifications:** ***Electrical:*** • Impedance: 75Ω • Frequency Range: DC-4 GHz • Voltage Rating: 500v ***Mechanical:*** • Connector Durability: 500 cycles ***Environmental:*** • Temperature Range: -40° ~ 85°C

Fig.	Description	Contact Plating	Body Plating	Cable Group RG/U	Digi-Key Part No.	Price Each 1	10	25	100	Amphenol Part No.
1	Plug (Crimp)	Gold	Nickel	735A	ARF1548-ND	7.92	5.87	4.83	3.95	031-70251
				Belden 8218	ARF1549-ND	7.92	5.87	4.83	3.95	031-70260
				RG-179/U, 187A/U	ARF1550-ND	7.92	5.87	4.83	3.95	031-70261
2	Jack, Vertical	Gold	Gold	—	ARF1551-ND	4.47	3.31	3.20	3.16	031-70250
			Nickel	—	ARF1552-ND	4.33	3.21	2.76	2.44	031-70249
3	Jack, R/A	Gold	Nickel	—	ARF1553-ND	8.09	5.99	4.87	3.91	031-70255
4	Jack, Bulkhead R/A			—	ARF1554-ND	8.88	6.58	5.35	4.29	031-6055

Fig. 1

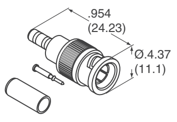

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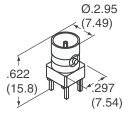

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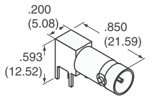

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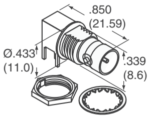

Fig. 1

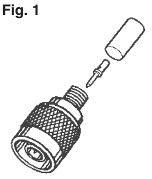

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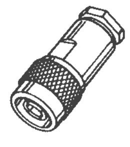

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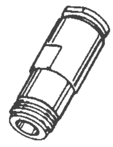

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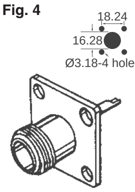

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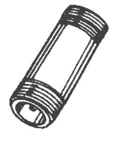

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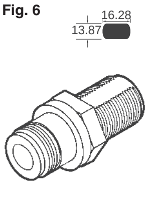

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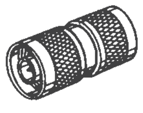

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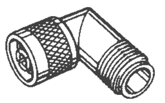

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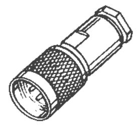

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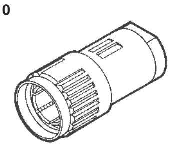

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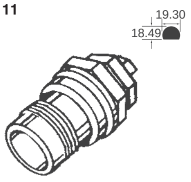

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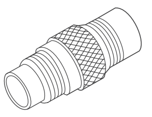

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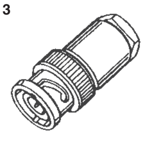

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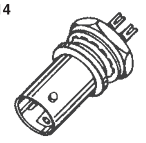

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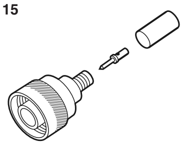

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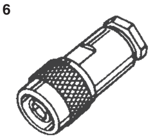

Type N Coaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Pricing 1	25	100	Amphenol Part No.
1	Plug (Crimp)‡	8, 213	M39012/10B-0007	ARF1013-ND	15.37	173.75	615.63	82-340
	Plug (Crimp)	9, 214	—	ARF1163-ND	20.13	227.97	807.44	82-332
	Plug (Crimp)	55, 142, 223	—	ARF1164-ND	15.34	173.43	615.27	82-5370
2	Plug (Clamp)	8, 9, 144, 165, 213, 214. 216. 225	UG-21D/U	ARF1014-ND	16.39	185.51	656.37	82-202
	Plug (Clamp)	8, 9, 144, 165, 213, 214, 216, 225	UG-1185	ARF1161-ND	13.14	148.71	567.60	82-312
	Plug (Clamp)	58, 141, 142	UG-536B/U	ARF1016-ND	11.10	186.50	660.45	34025
	Plug (Clamp)	58, 141, 142	UG-536B	ARFX1016-ND*	7.75	83.92	306.00	34025-RFX
	Plug (Clamp)	Belden 9913	—	ARF1020-ND	12.47	141.05	499.92	82-202-1006
	Plug (Clamp)	8, 9, 144, 165, 213, 214, 216, 225	UG-21D	ARFX1183-ND*	6.36	78.82	305.28	82-202-RFX
3	Jack (Clamp)	8, 9, 87A, 144, 165,	UG-23B/U	ARF1021-ND	16.51	186.88	662.25	82-63
4	Panel Receptacle	—	UG-58A/U	ARF1023-ND	13.11	162.65	575.23	82-97
	Panel Receptacle	—	UG-58A	ARFX1023-ND*	5.39	79.90	295.19	82-97-RFX
	Panel Receptacle	—	UG-58	ARF1160-ND	13.28	150.13	531.82	82-24
5	Straight/Jack-Jack	—	UG-29B/U	ARF1025-ND	19.17	216.76	768.35	82-101
	Straight/Jack-Jack	—	UG-29B	ARFX1025-ND*	7.81	94.65	258.00	82-101-RFX
6	Bulkhead/Jack-Jack	—	UG-30/U	ARF1026-ND	32.42	366.87	1298.79	82-66
7	Straight/Plug-Plug	—	UG-57B/U	ARF1027-ND	16.94	191.56	678.63	82-100
	Straight/Plug-Plug	—	UG-57B	ARFX1027-ND*	10.18	115.12	408.61	82-100-RFX
8	Angle/Jack-Plug	—	UG-27A	ARF1028-ND	35.26	398.75	1447.00	82-64

* RFX connectors.
‡ Crimp tools are listed within the RF & RFX Connectors section.

Twinaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Pricing 1	25	100	Amphenol Part No.
9	Plug (Clamp)	AA-6076, AA-6079	—	ARFX1031-ND*	8.36	94.67	334.43	82-5589-RFX
10	Plug (Clamp) Plastic Body	Belden 8227, 9207, IBM 7362211	—	ARF1033-ND	15.88	352.71	1167.60	82-GB635-CR
11	Receptacle	—	—	ARFX1035-ND*	11.80	133.43	472.14	82-5590-RFX
12	Adapter/Jack-Jack	IBM 7362230	—	ARF1036-ND	58.91	666.39	2359.24	82-5588
	Adapter/Jack-Jack			ARFX1036-ND*	8.96	101.26	358.46	82-5588-RFX
13	BNC Plug/Twinax - Noryl	108A	—	ARF1037-ND	14.50	164.02	580.29	31-224
	BNC Plug/Twinax - TFE	108A	—	ARF1133-ND	23.99	271.54	961.87	31-2226
14	BNC Bulkhead/Twinax - Noryl	—	—	ARF1038-ND	27.28	308.52	1093.47	31-223
	BNC Bulkhead/Twinax - TFE	—	—	ARF1132-ND	24.03	271.90	963.29	31-2225

* RFX connectors

TNC Coaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Pricing 1	25	100	Amphenol Part No.
15	Plug (Quick Crimp)‡	—	—	ARF1081-ND	7.68	87.26	302.58	36825
	Plug (MIL-Crimp)	142, 223	—	ARF1135-ND	7.46	84.73	293.46	31-2373
	Plug (Crimp)‡	59, 62	M23329/4-05	ARF1084-ND	7.34	83.49	288.42	31-2368
16	Plug (Clamp)	58, 141, 142A	—	ARFX1082-ND*	2.64	44.00	132.00	79875-RFX

‡ Crimp tools are listed within the RF & RFX Connectors section.

*RFX™, is specifically designed for applications that do not require performance above 1 to 3 GHz. RFX™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors.

Amphenol® RF

RF and RFX Connectors

Fig. 1

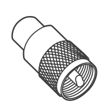

Fig. 2

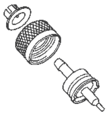

Fig. 3

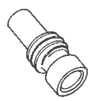

Fig. 4

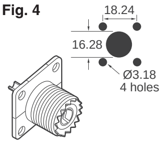

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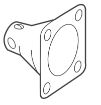

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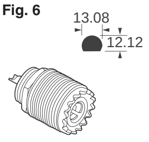

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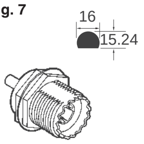

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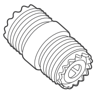

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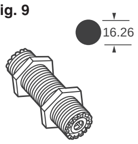

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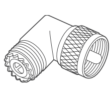

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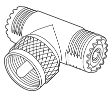

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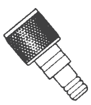

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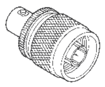

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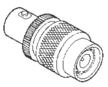

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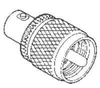

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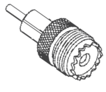

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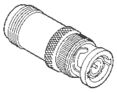

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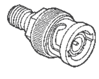

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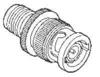

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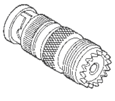

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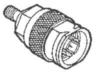

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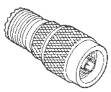

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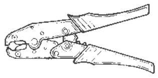

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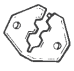

UHF Coaxial Connectors

Fig.	Description	Cable Group RG/U	Military Part No.	Digi-Key Part No.	Pricing 1	25	100	Amphenol Part No.
1	Plug Plug Plug (TFE Insul.)	8, 9, 87A, 214, 313, 225 8, 9, 87A, 214, 313, 225 8, 9, 87A, 214, 313, 225	PL-259/U — PL-259	ARF1000-ND ARFX1000-ND ARF1001-ND	5.26 3.02 8.79	46.39 34.21 77.50	145.56 121.28 244.44	83-1SP-1050 83-1SP-15RFX 83-822
2	Plug Plug (Crimp or Solder)	58, 58A, 58C, 141, 303 58, 141, 142	— —	ARF1002-ND ARFX1002-ND*	21.70 3.99	387.50 45.00	1395.00 164.00	83-58FCP 83-58FCP-RFX
3	Reducing Adapter Reducing Adapter	58, 141, 142 59, 62, 71, 140, 210	UG-175 UG-176	ARFX1003-ND* ARFX1004-ND*	.78 .78	8.75 8.75	31.50 31.50	83-185-RFX 83-168-RFX
4	Panel Receptacle Panel Receptacle Panel Mount (TFE Insul.)	— — —	SO-239/U SO-239 SO-239/A	ARF1005-ND ARFX1005-ND* ARF1168-ND	3.96 3.81 7.65	53.31 63.50 83.24	198.00 190.50 300.00	83-1R 83-1R-RFX 83-798
5	Panel Mount Hood	58, 141	UG-177	ARF1167-ND	11.55	101.90	321.54	83-765
6	Bulkhead Receptacle	—	—	ARF1006-ND	24.28	262.62	827.39	83-875-1002
7	Bulkhead Receptacle Bulkhead Receptacle	— —	— —	ARF1007-ND ARFX1007-ND*	14.12 6.87	124.69 77.90	391.89 275.29	83-878 83-878-RFX
8	Straight/Jack-Jack	—	PL-258/U	ARF1008-ND	11.89	155.54	500.40	83-1J
9	Bulkhead/Jack-Jack	—	UG-363/U	ARF1009-ND	34.89	307.55	974.40	83-1F
10	Angle/Jack-Plug	—	UG-646/U	ARF1010-ND	20.37	179.41	568.80	83-1AP
11	Tee/Jack-Plug-Jack	—	M-358	ARF1011-ND	17.38	203.42	789.36	83-1T

* RFX connectors. RFX™, is specifically designed for applications that do not require performance above 1 to 3 GHz. RFX ™ connectors are not for use in military system applications. RFX™ connectors are generally less expensive than MIL-Spec and industry standard connectors.

Mini UHF Connectors

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Pricing 1	25	100	Amphenol Part No.
12	Plug (Crimp)•	58, 58A, 58C, 141, 303	ARF1092-ND	4.98	49.92	158.40	81-115N-1000

• Crimp tools are listed below.

Between Series Adapters

Fig.	Description	Military Part No.	Digi-Key Part No.	Pricing 1	25	100	Amphenol Part No.
13	BNC Jack to N Plug BNC Jack to N Plug	UG-201A/U UG-201A/U	ARF1096-ND ARFX1096-ND*	16.56 22.05	181.93 242.24	647.58 861.88	31-216 31-216-RFX
14	BNC Jack to TNC Plug	—	ARF1098-ND	43.10	473.93	1728.00	79675
15	BNC Jack to UHF Plug BNC Jack to UHF Plug	UG-273/U UG-273/U	ARF1099-ND ARFX1099-ND*	23.15 43.81	323.82 495.63	1151.12 1755.48	31-28 31-28-RFX
16	UHF Jack to RCA Plug	—	ARF1101-ND	8.95	192.43	608.60	83-10
17	BNC Plug to N Jack BNC Plug to N Jack	UG-349A/U UG-349A/U	ARF1102-ND ARFX1102-ND*	20.81 22.59	250.97 255.61	891.96 904.88	31-217 31-217-RFX
18	BNC Plug to SMA Jack	—	ARF1103-ND	80.42	884.25	3222.00	901-165
19	BNC Plug to TNC Jack	—	ARF1104-ND	58.30	641.06	2279.18	79025
20	BNC Plug to UHF Jack	UG-255/U	ARF1105-ND	28.03	308.00	1123.00	2900
21	N Plug to SMA Jack	—	ARF1106-ND	108.87	1335.00	4916.99	901-294
22	N Plug to UHF Jack	UG-146/U	ARF1107-ND	30.26	361.13	1283.86	4400

* RFX adapters.

ECONOHEX™ Crimp Tools and Dies

Fig.	Description	Digi-Key Part No.	Price Each	Amphenol Part No.
	CTL Series Crimp Tools			
23	Crimp Tool – RG 58, 59, 62, Plenum 59, 62 Crimp Tool – RG 174, Belden 8281 Crimp Tool – RG 58, 8, 213 Crimp Tool – Belden 8227, IBM 7362211 Crimp Tool – RG 55, 58, 59, 62, 140, 141, 142, 210, 223, 303, 400, Plenum 59, 62	ARF1116-ND† ARF1117-ND† ARF1118-ND† ARF1119-ND† ARF1183-ND†	53.22 53.22 53.22 53.22 53.22	CTL-1 CTL-2 CTL-3 CTL-4 CTL-5
	Crimp Tool and Dies			
23	Tool Handle without Dies	ARF1108-ND	104.34	227-987
24	Crimp Die Set – Twin AX Crimp Die Set – RG 174,179, 187, 188, 316	ARF1110-ND ARF1111-ND	87.01 51.02	227-1417 227-1418

† CTL Series crimp tools are sold complete as a tool handle with die set included.

tyco
Electronics

AMP

MMCX Connectors

Fig. 1

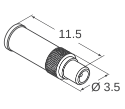

Fig. 2

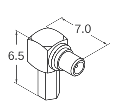

Fig. 3

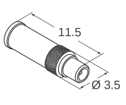

Fig. 4

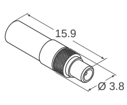

Fig. 5

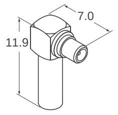

Fig. 6

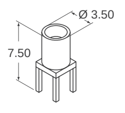

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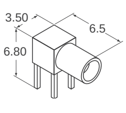

Fig. 8

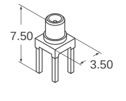

Fig. 9

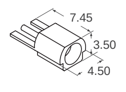

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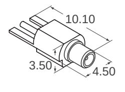

Fig.	Description	Digi-Key Part No.	Pricing 1	25	50	Amp Part No.
	Semi-Rigid Cable - Direct Solder Attachment					
1	Straight Cable Plug - RG 405	A30732-ND	6.05	130.08	229.90	1408313-1
2	Right Angle Cable Plug - RG 405	A30733-ND	7.20	154.80	273.60	1408314-1
	Flexible Cable - Crimp Attachment					
3	Straight Cable Plug - RG 178, 196	A30734-ND	6.05	130.08	229.90	1408148-1
4	Straight Cable Plug - RG 174, 188, 316 Straight Cable Plug - RD 316	A30735-ND A30736-ND	6.05 6.05	130.08 130.08	229.90 229.90	1408312-1 1408312-2
5	Right Angle Cable Plug - RG 178, 196 Right Angle Cable Plug - RG 174, 188, 316 Right Angle Cable Plug - RD 316	A30737-ND A30738-ND A30739-ND	7.20 7.20 7.20	154.80 154.80 154.80	273.60 273.60 273.60	1408149-1 1408149-2 1408149-3
	Printed Circuit Board					
6	Straight Jack Receptacle	A30740-ND	6.08	130.61	230.85	1408150-1
7	Right Angle Jack Receptacle	A30741-ND	7.35	158.03	279.30	1408151-1
8	Straight Plug Receptacle	A30742-ND	7.18	154.26	272.65	1408496-1
	Edge Mount					
9	Straight Jack Receptacle	A30743-ND	7.35	158.03	279.30	1408152-1
10	Straight Plug Receptacle	A30744-ND	9.40	202.10	357.20	1408120-1
	Crimp Tool					
—	Die Set to use with A9996-ND Pro-Crimper Hand Tool	A30731-ND A9996-ND	265.13 66.00	— —	— —	1583696-1 354940-1

Fig. 1

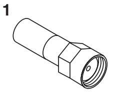

SMA Plug

Fig. 2

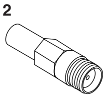

SMA Jack

Fig. 3

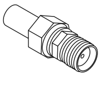

SMA Bulkhead Jack

Fig. 4

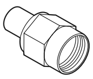

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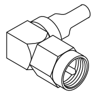

Fig. 6

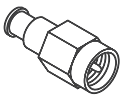

Fig. 7

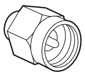

Fig. 8

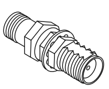

Fig. 9

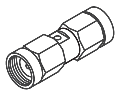

Fig. 10

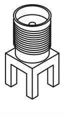

Fig. 11

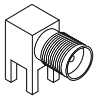

Fig. 12

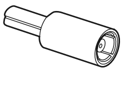

MIL-Type

Fig. 13

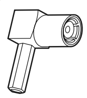

MIL-Type

Fig. 14

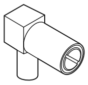

Zinc Die Cast

Fig. 15

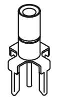

Fig. 16

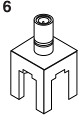

Fig. 17

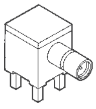

Fig. 18

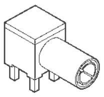

Fig. 19

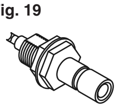

Front mount shown

Fig. 20

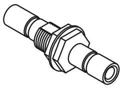

Fig. 21

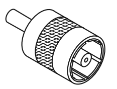

Fig. 22

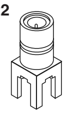

Fig. 23

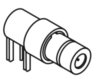

RF Connectors – SMA Crimp Connectors

A9966-ND Hand Crimp Tool, without Dies **$1854.00**

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.	Die Set	Price Each	Locator Plug*	Price Each
1	Plug, Hex Crimp, Brass, Nickel Plated	142, 142A, 142B	A4010-ND	4.73	4.07	447647-2	—	—	—	—
			A32325-ND◊	4.33	3.72	5447647-2	—	—	—	—
	Plug, Hex Crimp, Brass, Nickel Plated	174, 174A, 188, 188A, 316	A4011-ND	4.85	4.18	447647-3	—	—	—	—
			A32326-ND◊	4.25	3.66	5447647-3	—	—	—	—
	Plug, Hex Crimp, Brass, Nickel Plated	Belden YR20621	A24676-ND◊	5.48	4.71	1-447647-1	—	—	—	—
2	Jack, Hex Crimp	174, 188, 316	A32327-ND◊	5.58	4.80	5447648-3	—	—	—	—
3	Bulkhead Jack, Crimp	174, 188, 316	A4009-ND	11.05	9.51	447650-3	—	—	—	—
	Bulkhead Jack, Crimp	174, 188, 316	A32332-ND◊	10.83	9.31	5447650-3	—	—	—	—
4	Plug, with Center Contact	405 Semi-Rigid	A4012-ND◊	9.33	8.02	227868-1	A9964-ND	223.35	A9961-ND	62.43
	Plug, with Center Contact	405 Semi-Rigid	A4013-ND◊	14.60	12.56	228639-1	A9964-ND	223.35	A9961-ND	62.43
	Short Plug, with Center Contact	405 Semi-Rigid	A24680-ND	10.78	9.27	221447-1	—	—	—	—
5	Right Angle Plug, with Center Contact	405 Semi-Rigid	A24681-ND◊	39.15	33.67	228583-1	A9964-ND	223.35	A9961-ND	62.43
6	Solderless Plug, with Center Contact	402 (.141)	A4014-ND◊	13.13	11.29	227743-1	A9965-ND	472.68	A9961-ND	62.43
	Solderless Plug, with Center Contact	402 (.141)	A4015-ND◊	13.13	11.29	228634-1	A9965-ND	472.68	A9961-ND	62.43
	Solderless Plug, without Center Contact	402 (.141)	A4017-ND◊	4.25	3.66	228635-1	A9965-ND	472.68	A9962-ND	89.42
7	Plug, Retractable Collar	402 (.141)	A4018-ND◊	4.83	4.15	227531-5	A9963-ND	427.50	A9962-ND	89.42

* Must use a locator with die set. ◊ ***RoHS Compliant***

SMA Crimp Connectors for Flexible Cables

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Plug, Stainless Steel, Passivated, Length: .950”	174, 188, 188A, 316	A24683-ND‡	15.38	13.23	225532-4
	Plug, Brass, Nickel, Length: 1.188”	174, 188, 188A, 316	A24684-ND‡	15.93	13.70	221117-2
			A32328-ND‡◊	16.40	14.11	221117-4
	Plug, Stainless Steel, Passivated	179, 179A, 179B, 161, 187, 187B, Belden 922	A24685-ND‡	15.40	13.25	225532-8
	Plug, Stainless Steel, Passivated	58, 58A, 58B, 58C	A24686-ND‡	16.88	14.52	225532-1
	Plug, Stainless Steel, Passivated	223, 55, 55A, 55B	A24687-ND‡	16.35	14.07	1-225532-0
	Plug, Stainless Steel, Passivated	142, 142A, 142B, 400, Belden 84142	A24688-ND‡	15.23	13.10	225532-3
3	Bulkhead Jack, Stainless Steel, Passivated	174, 188, 188A, 316	A24689-ND	32.63	28.06	225608-4
			A32321-ND◊	31.98	27.50	5225608-4
8	Bulkhead Jack Adapter (Jack-Jack)	—	A24690-ND◊	20.15	17.33	221643-1
			A30048-ND◊	18.23	15.68	1054868-1
			A30049-ND◊	16.50	14.19	1054869-1
9	Bulkhead Adapter (Plug-Plug)	—	A30044-ND◊	16.93	14.56	1053635-1
			A30045-ND◊	21.03	18.09	1053634-1

‡ Mil Type ◊ ***RoHS Compliant***

SMA PC Board Connectors

Fig.	Description	Body Finish and Plating	Digi-Key Part No.	Price Each 1	25	AMP Part No.
10	Vertical Jack	Brass and Gold	A24691-ND◊	7.70	6.63	221789-1
	Vertical Jack	Gold and Gold	A30046-ND◊	11.78	10.13	1053354-1
11	Right Angle Jack	Stainless Steel and Gold	A24692-ND◊	16.53	14.22	221790-1
	Right Angle Jack	Gold and Gold	A30047-ND◊	12.78	10.99	1053378-1

◊ ***RoHS Compliant***

SMB Connectors

Center Contact: Gold

Fig.	Description	Style	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.
			50 Ohm				
12	Plug, Nickel	Mil Type	178, 178A, 178B, 196, 196A	A4021-ND††◊	5.45	4.69	413985-6
	Plug, Gold	Mil Type	174, 316, 188, 188A	A4026-ND††◊	6.45	5.55	413985-1
	Plug, Nickel			A4027-ND††◊	5.68	4.89	413985-3
	Plug, Nickel	Mil Type	179, 179A, 179B, 161, 187, 187A, Belden 9221	A4032-ND††◊	5.18	4.46	1-413985-1
	Plug, Gold	Mil Type	RG 316, 188 Double Braid	A4034-ND††◊	8.88	7.64	413985-2
	Plug, Nickel			A4035-ND††◊	6.05	5.21	413985-4
13	Plug, Right Angle, Nickel	Mil Type	178, 178A, 178B, 196, 196A	A4023-ND††◊	7.03	6.05	414002-8
14	Plug, Right Angle, Nickel	Zinc		A4025-ND††	4.33	3.72	414363-9
13	Plug, Right Angle, Gold	Mil Type	174, 316, 188, 188A, 179, 179A, 179B, 161, 187, 187A, Belden 9221	A4028-ND††◊	8.28	7.12	414002-1
	Plug, Right Angle, Nickel			A4029-ND††◊	8.43	7.25	414002-3
14	Plug, Right Angle, Gold	Zinc	174, 316, 188, 188A, 179, 179A, 179B, 161, 187, 187A, Belden 9221	A32329-ND††◊	4.40	3.79	5414363-3
	Plug, Right Angle, Nickel			A32331-ND††◊	4.28	3.68	5414363-5
13	Plug, Right Angle, Gold	Mil Type	RG 316, 188 Double Braid	A4036-ND††◊	8.33	7.16	414002-2
	Plug, Right Angle, Nickel			A4037-ND††◊	7.70	6.63	414002-4
14	Plug, Right Angle, Gold	Zinc	RG 316, 188 Double Braid	A32330-ND††◊	3.38	2.91	5414363-4
15	Jack, Vertical, Nickel	Comm.	—	A32320-ND◊	2.92	2.52	5221111-1
16	Jack, Vertical, Gold	Mil Type	—	A4041-ND◊	4.48	3.85	413990-1
	Jack, Vertical, Nickel			A4042-ND◊	3.63	3.12	413990-2
17	Jack, Right Angle, Low Profile, Gold	Mil Type	—	A4043-ND◊	8.80	7.57	413996-2
	Jack, Right Angle with Standoff Pads, Gold			A24694-ND	6.48	5.57	414026-2
	Jack, Right Angle with Standoff Pads, Nickel			A4044-ND◊	5.20	4.48	414026-3
	Jack, Right Angle, Nickel/Tin-Lead, Zinc Die Cast	Zinc	—	A32323-ND◊	4.75	4.09	5414337-1
18	Jack, Right Angle, Gold	Zinc	—	A29351-ND◊	7.30	6.28	414963-1
	Plug, Right Angle, Gold, Nickel/Tin-Lead, Zinc Die Cast	Zinc	—	A4046-ND	6.35	5.47	414338-1
				A32324-ND◊	6.23	5.36	5414338-1
19	Receptacle, Solder Pot, Front Mount, Nickel	Mil Type	—	A24695-ND◊	6.30	5.42	228216-1
	Receptacle, Solder Pot, Rear Mount, Nickel			A24696-ND◊	5.48	4.71	228215-1
20	Bulkhead Jack Adapter (Jack-Jack), Nickel	Mil Type	—	A24697-ND◊	7.35	6.33	228553-1
			75 Ohm				
13	Plug, Right Angle, Gold	Comm.	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24704-ND†◊	21.10	18.15	414048-6
21	Plug, Nickel	Comm.	179, 179A, 179B, 161, 187, 187A, Belden 9221	A4040-ND†◊	9.50	8.17	414618-2
22	PC Board Jack, Vertical, Gold	Mil Type	—	A4047-ND◊	6.28	5.40	414244-1
	PC Board Jack, Vertical, Tin-Lead			A4050-ND	5.35	4.61	414244-4
	PC Board Jack, Vertical, Tin-Lead			A32322-ND◊	4.90	4.22	5414244-4
23	Jack, Right Angle, Front: Nickel, Rear: Tin-Lead	Comm.	—	A32319-ND◊	6.73	5.79	5221014-1
			Tools				
	Crimp Tool, 50 Ohm, Hex/Comm. with Die Set		174, 316, 188, 179, 161, 187, RG 316, 188 Double Braid	A9808-ND	135.60	—	58500-1
	Crimp Tool, 50 Ohm, Hex/Comm. with Die Set		178, 196, 174, 316, 179, 161, 187,188	A9810-ND	1507.43	—	58046-1
	Pro Crimper II Hand Tool w/o Die, Use with A9968 and A9809		—	A9996-ND	66.00	—	354940-1
	Die Set, Hex/Comm, use with A9996		174, 179, 187	A9809-ND	74.24	—	58489-1
	Die Set, Mil Type Crimp, use with A9996		—	A9968-ND	104.54	—	58483-1

†† Uses A9996-ND PRO-CRIMPER and A9968-ND Die † Uses A9996-ND PRO-CRIMPER and A9809-ND Die ◊ ***RoHS Compliant***

BNC Coaxial Connectors Dual Crimp

MIL-C-39012   Class II - Cat. B

Fig. 1

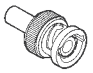

Fig. 2

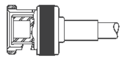

Fig. 3

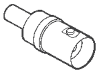

Fig. 4

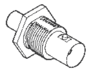

Fig.	Descrip-tion	Center Contact	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each		AMP Part No.	Premium SDE Die Set†	Commercial Die Set†
							1	25			
1	Plug	Gold	Nickel	TEFLON	174, 188, 188A, 316	A32211-NDΔ	3.32	2.86	5225395-7	A30571-ND	—
		Gold	Nickel	Polyethylene	174, 188, 188A, 316	A32212-NDΔ	1.93	1.66	1-5227079-6	A30571-ND	—
		Gold	Silver	TEFLON	174, 188, 188A, 316	A24425-ND	7.10	6.11	2-331350-4	A30571-ND	—
		Gold	Nickel	TEFLON	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32213-NDΔ	3.29	2.83	5225395-8	A30571-ND	—
		Tin Lead	Nickel	Polyethylene	161, 179, 179A, 179B, 187, 187A, Belden 9221	A24427-ND	3.39	2.92	2-227079-0	A30571-ND	A24780-ND
		Tin Lead	Nickel	Polyethylene	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32214-NDΔ	2.36	2.04	2-5227079-0	A30571-ND	A24780-ND
		Gold	Nickel	Polyethylene	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32215-NDΔ	1.93	1.66	2-5227079-2	A30571-ND	A24780-ND
		Gold	Silver	TEFLON	161, 179, 179A, 179B, 187, 187A, Belden 9221	A24429-ND	8.63	7.42	2-331350-5	A30571-ND	—
		Gold	Nickel	Polyethylene	RG 316, 188 Double Braid	A32216-NDΔ	1.92	1.65	8-5227079-2	—	A24779-ND
		Gold	Nickel	TEFLON	Belden 9252, 122	A24431-ND	4.08	3.51	5-225395-7	A29143-ND	—
		Gold	Silver	TEFLON	180, 180A, 180B, 195, 195A	A24434-ND	9.65	8.30	2-331350-6	A29143-ND	—
		Gold	Nickel	Polyethylene	Belden 9907, RG-141	A32217-NDΔ	2.22	1.91	6-5227079-7	A24778-ND	A24570-ND
		Gold	Nickel	Polyethylene	Belden 89907	A32218-NDΔ	1.92	1.65	6-5227079-8	—	A24781-ND
		Gold	Nickel	TEFLON	Beldon 8218	A32219-NDΔ	3.32	2.86	1-5225395-0	A29143-ND	—
		Gold	Nickel	Polyethylene	Beldon 8218	A32220-NDΔ	1.92	1.65	1-5227079-9	—	A24779-ND
		Tin Lead	Nickel	Polyethylene	Belden 8218	A24439-ND	1.85	1.60	1-227079-7	—	A24779-ND
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32205-NDΔ	3.32	2.86	5225395-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32206-NDΔ	3.29	2.83	5225395-2	A24776-ND	—
2	Plug	Gold	Nickel	Polyethylene	58, 58A, 58B, 58C	A32209-NDΔ	1.93	1.66	5227079-5	A24778-ND	A24570-ND
		Silver	Nickel	Polyethylene	58, 58A, 58B, 58C	A1118-ND	3.23	2.78	227079-9	A24778-ND	A24570-ND
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24440-ND	7.35	6.33	2-331350-1	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	Belden 88240, Berk-Tek BTDC-58, Comm/Scope 2135	A24442-ND	2.41	2.07	4-227079-3	—	A24781-ND
		Gold	Nickel	Polyethylene	Belden 88240, Berk-Tek BTDC-58, Comm/Scope 2135	A32221-NDΔ	2.20	1.90	4-5227079-3	—	A24781-ND
		Gold	Nickel	TEFLON	Belden 88240, Berk-Tek BTDC-58, Comm/Scope 2135	A24443-ND	13.93	11.98	4-225395-2	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	55, 55A, 55B, 223	A24444-ND	3.56	3.06	225395-3	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	55, 55A, 55B, 223	A32222-NDΔ	3.32	2.86	5225395-3	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	55, 55A, 55B, 223	A24445-ND	1.86	1.60	227079-6	A24778-ND	A24570-ND
		Gold	Nickel	Polyethylene	55, 55A, 55B, 223	A32223-NDΔ	1.73	1.50	5227079-6	A24778-ND	A24570-ND
		Gold	Nickel	TEFLON	142, 142A, 142B, 400	A32224-NDΔ	3.32	2.86	5225395-6	A24571-ND	A24777-ND
		Gold	Nickel	Polyethylene	142, 142A, 142B, 400	A24447-ND	2.70	2.33	6-227079-1	A24778-ND	A24570-ND
		Gold	Nickel	Polyethylene	142, 142A, 142B, 400	A32225-NDΔ	2.70	2.33	6-5227079-1	A24778-ND	A24570-ND
		Gold	Silver	TEFLON	142, 142A, 142B, 400	A24448-ND	6.58	5.66	2-331350-9	—	A24777-ND
		Tin Lead	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A1120-ND	2.78	2.50	227079-3	A24775-ND	A24570-ND
		Gold	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32210-NDΔ	2.22	1.91	5227079-7	—	A24570-ND
		Silver	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A1121-ND	1.93	1.66	1-227079-1	—	A24570-ND
		Gold	Silver	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A24449-ND	6.45	5.55	331350	A24776-ND	—
		Gold	Nickel	TEFLON	302, Belden 88241, 89269, Hi-Temp 62A Times PL62, Berk-Tek, BTDC-59, BTDC-62	A24450-ND	7.75	6.67	4-225395-1	A29143-ND	—
		Gold	Nickel	Polyethylene	Hi-Temp 59, Times PL59, PLF59, (20 AWG C.C.)	A24452-ND	6.20	5.34	5-227079-3	A24776-ND	—
		Gold	Nickel	TEFLON	Belden 9104, 9112, 9167, 9240, 9259, 9266, Times FM-59	A32226-NDΔ	3.84	3.31	2-5225395-0	A24776-ND	—
		Gold	Silver	TEFLON	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A24457-ND	8.78	7.55	4-331350-0	A24631-ND	—
		Silver	Nickel	Polyethylene	59, 59A, 59B, 62, 62A, 62B, Belden 9209, 9291	A30561-ND	2.65	2.29	7-227079-2	A24775-ND	A24570-ND
3	Cable Jack	Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32207-NDΔ	5.45	4.69	5225396-1	A24571-ND	A24777-ND
	Jack	Gold	Nickel	TEFLON	174, 188, 188A, 316	A32227-NDΔ	5.53	4.76	5225396-7	A30571-ND	—
		Gold	Nickel	Polypropylene	174, 188, 188A, 316	A32228-NDΔ	2.98	2.56	5228979-7	A30571-ND	A24780-ND
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24462-ND	10.78	9.27	2-331351-1	A24571-ND	A24777-ND
		Gold	Nickel	Polypropylene	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A24463-ND	3.90	3.36	228979-6	A24775-ND	A24570-ND
		Gold	Nickel	Polypropylene	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32229-NDΔ	2.98	2.56	5228979-6	A24775-ND	A24570-ND
		Gold	Nickel	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A1103-ND	23.45	20.17	225396-2	A24776-ND	—
		Gold	Silver	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A24464-ND	14.20	12.22	331351	A24776-ND	—
4	Bulkhead Jack	Gold	Nickel	TEFLON	174, 188, 188A, 316	A32230-NDΔ	4.53	3.90	5225398-7	A30571-ND	—
		Gold	Nickel	Polypropylene	174, 188, 188A, 316	A32231-NDΔ	3.75	3.23	5228980-7	A30571-ND	A24780-ND
		Gold	Silver	TEFLON	174, 188, 188A, 316	A24467-ND	10.15	8.73	1-331693-2	A30571-ND	—
		Gold	Nickel	TEFLON	161, 179, 179A, 179B, 187, 187A, Belden 9221	A32232-NDΔ	5.20	4.48	5225398-8	A30571-ND	—
		Gold	Nickel	TEFLON	Times RD316	A32233-NDΔ	4.53	3.90	1-5225398-5	A29143-ND	—
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A1111-ND	12.10	10.41	225398-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32208-NDΔ	5.33	4.58	5225398-1	A24571-ND	A24777-ND
		Gold	Nickel	Polypropylene	58, 58A, 58B, 58C	A24470-ND	5.03	4.33	228980-5	A24778-ND	A24570-ND
		Gold	Nickel	Polypropylene	58, 58A, 58B, 58C	A32234-NDΔ	3.63	3.12	5228980-5	A24778-ND	A24570-ND
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24471-ND	15.18	13.06	1-331693-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	55, 55A, 55B, 223	A32235-NDΔ	4.53	3.90	5225398-3	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	142, 142A, 142B, 400	A24473-ND	5.35	4.61	225398-6	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	142, 142A, 142B, 400	A32236-NDΔ	5.20	4.48	5225398-6	A24571-ND	A24777-ND
	Right Angle Plug	Gold	Silver	TEFLON	58, 58A, 58B, 58C	A24474-ND	24.45	21.03	225973-1	A24571-ND	A24777-ND
		Gold	Silver	TEFLON	58, 58A, 58B, 58C	A32237-NDΔ	34.73	29.87	5225973-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	58, 58A, 58B, 58C	A32238-NDΔ	21.58	18.56	5225974-1	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	55, 55A, 55B, 223	A24476-ND	42.28	36.36	225974-2	A24571-ND	A24777-ND
		Gold	Silver	TEFLON	142, 142A, 142B, 400	A24477-ND	26.15	22.49	225973-4	A24571-ND	A24777-ND
		Gold	Silver	TEFLON	142, 142A, 142B, 400	A32239-NDΔ	23.95	20.60	5225973-4	A24571-ND	A24777-ND
		Gold	Nickel	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A24478-ND	43.13	37.09	225974-5	A24476-ND	—
		Gold	Nickel	TEFLON	59, 59A, 59B, 62, 62A, 62B, 124, 140, 210, Belden 9209, 9269, 9291	A32240-NDΔ	27.85	23.96	5225974-5	A24476-ND	—
Panel Insulation Bushings for Bulkhead Jacks (2 required)……						A24479-NDΔ	.58	.50	330620	—	—
BNC Premises Wire Kit……						A9822-ND	152.72	—	58477-1	—	—

† Use with A9996-ND   Δ ***RoHS Compliant***

tyco Electronics AMP **RF Connectors**

BNC Hex Crimp Connectors 50 Ohm

Fig. 1

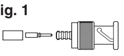

Fig. 2

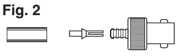

Fig. 3

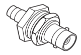

Fig. 4

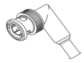

Fig. 5

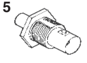

Collar and Outer Contacts: Nickel Plated   Center Contact: Gold, MIL-G-45204

Fig.	Description	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	Die for Pro-Crimper III	Price Each
1	Plug	Nickel	Polymethylpentene	174, 188, 188A, 316	A32352-NDΔ	2.32	2.00	2-5221128-1	A9995-ND	42.00
		Nickel	Polymethylpentene	179, 179A, 179B, 161, 187, Belden 9221	A32353-NDΔ	2.31	1.99	2-5221128-3	A9995-ND	42.00
		Nickel	Polymethylpentene	Belden 9907, 89907, Comm/Scope 2104	A32354-NDΔ	2.31	1.99	2-5221128-7	A9994-ND	42.00
		Nickel	Polymethylpentene	58, 58A, 58B, 58C, Belden 88240, Berk-Tek, BTDC-58, Comm/Scope 2135	A1164-ND	2.31	1.99	1-221128-0	A9994-ND	42.00
		Nickel	Polymethylpentene	58, 58A, 58B, 58C, Belden 88240, Berk-Tek, BTDC-58, Comm/Scope 2135	A32350-NDΔ	2.31	1.99	1-5221128-0	A9994-ND	42.00
		Nickel	Polymethylpentene	140, 210, 62, 62A, 62B, 59, 59A, 59B, 302, Belden 9291, 9209, 9269, 89269, 88241, Hi- Temp, 62A,Times PL-62, Berk-Tek BTDC-59, BTDC-62, 124	A32351-NDΔ	2.65	2.29	1-5221128-1	A9994-ND	42.00
		Nickel	Polypropylene	Belden 9104, 9240, 9112, 9167, 9259, 9266, Times FM-59	A1171-ND	2.71	2.33	1-221128-7	A9994-ND	42.00
					A32333-NDΔ	2.65	2.29	1-5221128-7	A9994-ND	42.00
2	Cable Jack	Nickel	Polymethylpentene	174, 188, 188A, 316	A32358-NDΔ	3.25	2.80	5413779-3	A9995-ND	42.00
		Nickel	Polymethylpentene	179, 179A, 197B, 161, 187, 187A, Belden 9221	A1804-ND	4.93	4.24	413779-4	A9995-ND	42.00
3	Bullhead Jack	Nickel	Polymethylpentene	174, 188, 188A, 316	A32345-NDΔ	4.15	3.57	5413771-3	A9995-ND	42.00
		Nickel	Polymethylpentene	58, 58A, 58B, 58C, Belden 88240, BerkTek BTDC-58, Comm/Scope 2135	A1811-ND	5.83	5.01	413771-1	A9994-ND	42.00
		Nickel	Polymethylpentene	58, 58A, 58B, 58C, Belden 88240, BerkTek BTDC-58, Comm/Scope 2135	A32357-NDΔ	5.70	4.91	5413771-1	A9994-ND	42.00
4	Plug Right Angle	Nickel	Polymethylpentene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1182-ND	12.25	10.54	413959-2	A9994-ND	42.00
		Nickel	Polymethylpentene	174, 188, 188A, 316	A1183-ND	14.10	12.13	413959-3	A9995-ND	42.00
		Nickel	Polymethylpentene	174, 188, 188A, 316	A32360-NDΔ	11.03	9.49	5413959-3	A9995-ND	42.00
		Nickel	Polymethylpentene	179, 179A, 179B, 161, 187, 187A, Belden 9221	A1184-ND	14.45	12.43	413959-4	A9995-ND	42.00
		Nickel	Polymethylpentene	179, 179A, 179B, 161, 187, 187A, Belden 9221	A32346-NDΔ	10.30	8.86	5413959-4	A9995-ND	42.00
		Nickel	Polymethylpentene	Belden 89907, 9907, Comm/Scope 3104, 2104	A1186-ND	14.10	12.13	413959-6	A9994-ND	42.00
		Nickel	Polymethylpentene	Belden 89907, 9907, Comm/Scope 3104, 2104	A32347-NDΔ	11.03	9.49	5413959-6	A9994-ND	42.00
		Nickel	Polymethylpentene	58, 58A, 58B, 58C	A32359-NDΔ	10.85	9.34	5413959-1	A9994-ND	42.00

BNC Single Crimp Connectors 50 Ohm

Center Contact: Gold, MIL Type

Fig.	Description	Body Plating	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	Die for Pro-Crimper III	Price Each
1	Plug	Silver	TEFLON	178, 178A, 178B, 196, 196A	A24401-ND	12.03	10.35	330876	—	—
		Silver	Polypropylene	174, 188, 188A, 316	A24403-ND	17.40	14.97	2-330058-1	A31885-ND	569.64
		Silver	TEFLON	174, 188, 188A, 316	A24404-ND	13.58	11.68	2-330061-1	A31885-ND	569.64
		Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24405-ND	11.95	10.28	2-329446-1	A31885-ND	569.64
		Silver	Polypropylene	58, 58A, 58B, 58C	A24406-ND	9.78	8.41	2-329082-1	A31207-ND	362.09
		Silver	Polypropylene	58, 58A, 58B, 58C	A32355-NDΔ	9.78	8.41	2-5329082-1	A31207-ND	362.09
		Silver	TEFLON	58, 58A, 58B, 58C	A24407-ND	10.68	9.19	2-329444-1	A31207-ND	362.09
		Silver	TEFLON	223, 55, 55A, 55B	A24409-ND	10.20	8.78	2-329444-2	A31206-ND	362.09
		Silver	TEFLON	142, 142A, 142B, 400	A24410-ND	11.70	10.07	2-330358-2	—	—
		Silver	Polypropylene	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32356-NDΔ	9.78	8.41	2-5329083-1	A9970-ND	240.89
		Silver	TEFLON	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24412-ND	10.00	8.60	2-329445-1	A9970-ND	240.89
2	Cable Jack	Nickel	TEFLON	174, 188, 188A, 316	A24413-ND	19.08	16.41	2-330062-1	A31885-ND	569.64
		Silver	TEFLON	223, 55, 55A, 55B	A24415-ND	21.68	18.65	2-329452-2	A31206-ND	362.09
4	Plug, Right Angle	Silver	TEFLON	58, 58A, 58B, 58C	A24420-ND	33.80	29.07	331175	A31207-ND	362.09
5	Bulkhead Jack	Silver	Polypropylene	174, 188, 188A, 316	A24416-ND	18.15	15.61	2-330060-1	A31885-ND	569.64
		Silver	TEFLON	179, 179A, 179B, 161, 187, 187A, Belden 9221	A24417-ND	20.80	17.89	2-329458-1	A31885-ND	569.64
		Silver	TEFLON	58, 58A, 58B, 58C	A24418-ND	20.88	17.96	2-329456-1	A31207-ND	362.09

Δ ***RoHS Compliant***

Bulkhead Solder Jacks Connectors 50 Ohm

Fig. 1

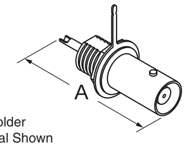

With Solder
Terminal Shown

Fig. 2

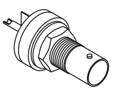

Fig. 3

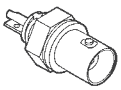

Fig.	Description	Dielectric	Dimension A	Contact Material	Body Plating	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
1	Without Solder Terminal*	VALOX	1.060 (26.93)	Silver	Nickel	A24520-ND	2.30	1.98	227754-3
	With Solder Terminal**	VALOX	1.060 (26.93)	Silver	Nickel	A24521-ND	2.63	2.26	227755-3
	With Solder Terminal**	VALOX	1.060 (26.93)	Silver	Nickel	A32344-NDΔ	2.35	2.03	5227755-3
	With Solder Terminal**	VALOX	1.312 (33.33)	Gold	Nickel	A24522-ND	1.85	1.60	227169-7
	With Solder Terminal**	VALOX	1.312 (33.33)	Gold	Nickel	A32334-NDΔ	1.88	1.62	5227169-7
	Without Solder Terminal*	VALOX	1.060 (26.93)	Gold	Nickel	A32342-NDΔ	1.60	1.38	5227754-2
	With Solder Terminal**	VALOX	1.060 (26.93)	Gold	Nickel	A24524-ND	2.43	2.09	227755-2
	With Solder Terminal**	VALOX	1.060 (26.93)	Gold	Nickel	A32343-NDΔ	1.65	1.42	5227755-2
	Without Solder Terminal*	VALOX	26.93 (1.060)	Tin-Lead	Nickel	A30562-ND	.97	.84	227754-1
	With Solder Terminal**	VALOX	26.93 (1.060)	Tin-Lead	Nickel	A30563-ND	2.78	2.39	227755-1
	With Solder Terminal**	VALOX	26.93 (1.060)	Tin-Lead	Nickel	A30565-ND†	2.23	1.92	227169-5
	With Solder Terminal**	TEFLON	1.312 (33.33)	Gold	Nickel	A24525-ND	3.03	2.61	227169-8
	With Solder Terminal**	TEFLON	1.312 (33.33)	Gold	Nickel	A32335-NDΔ	2.98	2.56	5227169-8
	Without Solder Terminal*	TEFLON	1.060 (26.93)	Gold	Nickel	A32337-NDΔ	2.53	2.18	5227715-3
	With Solder Terminal**	TEFLON	1.060 (26.93)	Gold	Nickel	A32338-NDΔ	2.85	2.46	5227716-3
—	Lock Washer with Solder Lug	—	—	—	Tin/Lead	A30564-ND	.50	.43	227260-2
2	Sealed	Polymethylpentene	—	Gold	Nickel	A24528-ND	6.68	5.75	227426-1
						A32336-NDΔ	6.68	5.75	5227426-1
3	Isolated	VALOX, White	—	Tin	Nickel	A24529-ND	3.75	3.23	227726-1
	Isolated	VALOX, White	—	Tin	Nickel	A32339-NDΔ	2.60	2.24	5227726-1
	Isolated	VALOX, White	—	Silver	Nickel	A24530-ND	2.65	2.28	227726-2
	Isolated	VALOX, White	—	Silver	Nickel	A32340-NDΔ	2.60	2.24	5227726-2
	Isolated	VALOX, White	—	Gold	Nickel	A32341-NDΔ	2.29	1.97	5227726-3

Δ ***RoHS Compliant*** * Includes lockwasher and jam nut ** Includes solder terminal and jam nut † This part may be used with a panel thickness of 0.046-0.250 inches

BNC Field Serviceable Plug Connectors

50 Ohm

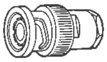

Center Contact:
Gold

Body Plating	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
Silver	58, 58A, 58B, 58C, 141, 141A, 303, 222, 55, 55A, 55B, 142, 142A, 142B, 400	A24480-ND	23.38	20.11	221265-1
Nickel	58, 58A, 58B, 58C, 141, 141A, 303, 222, 55, 55A, 55B, 142, 142A, 142B, 400	A24481-NDΔ	16.30	14.02	1-221265-0
	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269, 89269, 88241 Hi-Temp 62A, Times PL-62, Berk-Tek, BTDC-59, BTDC-62, 302, 71, 71A, 71B	A24482-NDΔ	18.93	16.28	1-221265-1

Δ ***RoHS Compliant***

BNC PC Board/Panel Mount Jack Connectors w/Mounting Flanges 50 Ohm

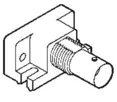
Right Angle

Hardware Sold Separately

Description	Center Contact	Mount. Height Inch (mm)	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Right Angle	Tin	.625 (15.88)	VALOX, White	A32242-NDΔ	8.45	7.27	5226978-1
Right Angle	Gold	.625 (15.88)	VALOX, White	A32252-NDΔ	8.45	7.27	5226978-3
Vertical	Gold	1.375 (34.93)	VALOX, White	A24540-ND	9.23	7.94	226987-7

Δ ***RoHS Compliant***

BNC PC Board/Panel Mount Right Angle Jack Connectors 50 Ohm

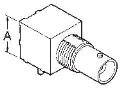

Hardware Sold Separately

Description	Center Contact	Mount. Height A- Inch (mm)	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Without Mounting Posts	Tin-Lead	.625 (15.88)	VALOX, White	A32253-NDΔ	2.96	2.55	5226990-1
With Mounting Posts	Tin-Lead	.625 (15.88)	VALOX, White	A24486-ND	2.23	1.92	227161-1
With Mounting Posts	Tin-Lead	.625 (15.88)	VALOX, White	A32244-NDΔ	2.19	1.88	5227161-1
Without Mounting Posts	Gold	.625 (15.88)	VALOX, White	A32254-NDΔ	2.54	2.19	5226990-3
With Mounting Posts	Gold	.625 (15.88)	VALOX, White	A24488-ND	2.23	1.92	227161-3
With Mounting Posts	Gold	.625 (15.88)	VALOX, White	A32258-NDΔ	2.19	1.88	5227161-3
With Mounting Posts	Gold	.519 (13.18)	VALOX, White	A24489-ND	2.38	2.06	227161-7
With Mounting Posts	Gold	.519 (13.18)	VALOX, White	A32260-NDΔ	2.19	1.88	5227161-7
With Mounting Posts	Tin-Lead	.625 (15.88)	VALOX, Black	A24492-ND	2.23	1.93	227161-2
With Mounting Posts	Tin-Lead	.625 (15.88)	VALOX, Black	A32245-NDΔ	2.19	1.88	5227161-2
Without Mounting Posts	Gold	.625 (15.88)	VALOX, Black	A32255-NDΔ	2.54	2.19	5226990-6
With Mounting Posts	Gold	.625 (15.88)	VALOX, Black	A24494-ND	2.23	1.92	227161-6
With Mounting Posts	Gold	.625 (15.88)	VALOX, Black	A32259-NDΔ	2.19	1.88	5227161-6
With Mounting Posts	Gold	.519 (13.18)	VALOX, Black	A32261-NDΔ	2.19	1.88	5227161-9
Without Mounting Posts	Tin-Lead	.625 (15.88)	Metal	A32264-NDΔ	8.48	7.29	5227433-1
With Mounting Posts	Tin-Lead	.625 (15.88)	Metal	A32248-NDΔ	2.95	2.54	5227661-1
Without Mounting Posts	Gold	.625 (15.88)	Metal	A32267-NDΔ	3.03	2.61	5227676-1
With Mounting Posts	Gold	.625 (15.88)	Metal	A24499-ND	3.01	2.59	227677-1
With Mounting Posts	Gold	.625 (15.88)	Metal	A32268-NDΔ	2.95	2.54	5227677-1
With Mounting Posts	Gold	.500 (12.70)	Metal	A32273-NDΔ	5.23	4.50	5413879-1

Δ ***RoHS Compliant***

BNC PC Board/Panel Mount Vertical Jack Connectors 50 Ohm

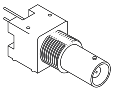

Hardware Sold Separately

Description	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Without Mounting Posts	Tin-Lead	VALOX, White	A24501-ND	7.33	6.30	226993-1
Without Mounting Posts	Tin-Lead	VALOX, White	A32256-NDΔ	7.18	6.18	5226993-1
With Mounting Posts	Tin-Lead	VALOX, White	A32246-NDΔ	2.19	1.88	5227222-1
Without Mounting Posts	Gold	VALOX, White	A24503-ND	7.33	6.30	226993-3
Without Mounting Posts	Gold	VALOX, White	A32257-NDΔ	7.18	6.18	5226993-3
With Mounting Posts	Gold	VALOX, White	A32262-NDΔ	2.19	1.88	5227222-3
Without Mounting Posts	Tin-Lead	VALOX, Black	A24505-ND	8.40	7.23	226993-2
Without Mounting Posts	Tin-Lead	VALOX, Black	A32243-NDΔ	8.25	7.10	5226993-2
With Mounting Posts	Tin-Lead	VALOX, Black	A32247-NDΔ	3.60	3.10	5227222-2
With Mounting Posts	Gold	VALOX, Black	A32263-NDΔ	3.60	3.10	5227222-6
With Mounting Posts	Tin-Lead	Metal	A32265-NDΔ	3.53	3.04	5227671-1
With Mounting Posts	Gold	Metal	A32266-NDΔ	2.52	2.17	5227673-1

Δ ***RoHS Compliant***

Jack Accessories 50 and 75 Ohm

Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Insulating Bushing for Mounting Jacks, Nylon	A24532-NDΔ	.38	.33	222163-1
Insulating Bushing for Bulkhead Solder Jacks	A24533-NDΔ	.20	.18	227223-1
Screw for panel thickness of 3/32 (2.38) or greater	A24534-NDΔ	.30	.26	221108-2
Screw for panel thickness of less than 3/32 (2.38)	A24535-NDΔ	.30	.26	221108-4
Lockwasher	A1129-NDΔ	.26	.24	1-329632-2
Hex Nut	A1128-NDΔ	.28	.25	1-329631-2

Δ ***RoHS Compliant***

BNC Vertical Metallized PC Board Mount Jack Connectors 50 Ohm

Fig. 1

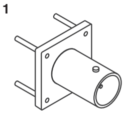

Fig. 2

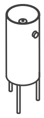

Fig. 3

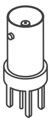

Fig.	Body Plating	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Nickel	Silver	VALOX	A24512-ND	3.54	3.05	227699-1
	Nickel	Gold	VALOX	A24513-ND	3.54	3.06	227699-2
	Nickel	Gold	VALOX	A32269-NDΔ	3.54	3.05	5227699-2
	Nickel	Tin	VALOX	A32249-NDΔ	3.54	3.05	5227699-3
2	Nickel	Gold	VALOX	A24515-ND	5.00	4.30	221123-2
	Nickel	Gold	VALOX	A32241-NDΔ	3.45	2.97	5221123-2
3	Nickel	Silver	VALOX	A24516-ND	5.60	4.82	222420-1
	Nickel	Silver	VALOX	A32251-NDΔ	5.60	4.82	5222420-1
	Tin-Lead	Silver	VALOX	A24517-ND	4.30	3.70	414305-1
	Tin	Silver	VALOX	A32493-NDΔ	4.23	3.64	5414305-1

Δ ***RoHS Compliant***

BNC Press-Fit Terminal Jack Connectors 50 Ohm

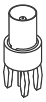

Body Plating	Center Contact	Body Material	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Nickel	Gold	TEFLON	A24519-NDΔ	4.53	3.90	222006-1
Nickel	Gold	TEFLON	A32250-NDΔ	4.50	3.87	5222006-1

Δ ***RoHS Compliant***

BNC Right-Angle PC Board Mount Jack Connectors

Fig. 1

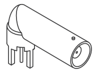

Fig. 2

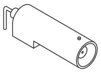

Fig.	Body Plating	Center Contact Length - In (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Nickel	.171 (4.34)	A32270-NDΔ	5.95	5.12	5413631-1
	Tin-Lead	.171 (4.34)	A32271-NDΔ	5.60	4.82	5413631-2
	Nickel	.131 (3.33)	A32272-NDΔ	7.08	6.09	5413631-3
2	Nickel	—	A24539-ND	2.60	2.24	414373-1
	Nickel	—	A32274-NDΔ	2.39	2.06	5414373-1

Δ ***RoHS Compliant***

BNC Twist-On Connectors 50 Ohm

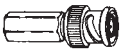

Center Contact: Gold Body Plating: Nickel

Descrip-tion	Dielectric	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Plug	Polymethylpentene	59, 59A, 59B	A24483-ND	4.33	3.72	414265-3

BNC Adapters 50 Ohm

Fig.	Description	Body Material and Plating	Center Contact Material and Plating	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Tee, Jack-Plug-Jack	Brass, Nickel	BE CU, Gold (30µ)	A24549-NDΔ	15.40	13.25	221543-2
	Tee, Jack-Plug-Jack	Zinc, Nickel	PH BR, Gold (15µ)	A24550-ND	6.33	5.44	413592-2
	Tee, Jack-Plug-Jack	Zinc, Nickel	PH BR, Gold (15µ)	A32524-NDΔ ***NEW!***	5.90	5.08	5413592-2
	Tee, Jack-Plug-Jack	Zinc, Nickel	BE CU, Gold (30µ)	A24551-ND	8.15	7.01	413592-6
2	Tee, Jack-Jack-Jack	Brass, Nickel	BE CU, Silver (200µ)	A24553-NDΔ	16.35	14.07	221988-1
3	Right Angle, Jack-Plug	Nickel	Silver	A24554-ND	19.65	16.90	329517
4	Bulkhead Jack, Jack-Jack	Nickel	Silver	A24556-NDΔ	18.00	15.48	330024
	Bulkhead Jack, Jack-Jack	Nickel	Gold (50µ)	A24557-ND	6.90	5.94	228226-1
	Bulkhead Jack, Jack-Jack	Nickel	Gold (15µ)	A24558-ND	5.68	4.89	228226-3
5	Jack Covers	Silver	—	A24559-NDΔ	6.30	5.42	330022
6	Feed-Thru, Jack-Jack	Nickel	Silver	A24560-NDΔ	7.58	6.52	221551-1
	Feed-Thru, Jack-Jack	Nickel	Gold	A24561-NDΔ	8.00	6.88	221551-3
	Feed-Thru, Jack-Jack	Nickel	Gold	A24562-ND	3.50	3.01	414414-1

Δ ***RoHS Compliant***

Fig. 1

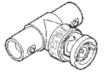

Fig. 2

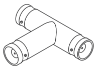

Fig. 3

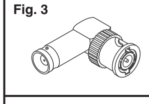

Fig. 4

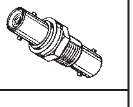

Fig. 5

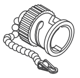

Fig. 6

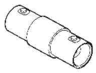

Fig. 1

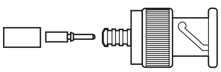

Fig. 2

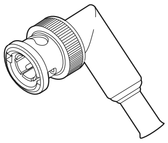

Fig. 3

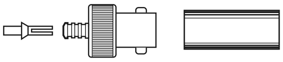

Fig. 4

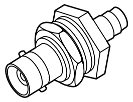

BNC Dual Crimp Connectors 75 Ohm

Body Plating: Nickel Center Contacts: Gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	 25	AMP Part No.	Dies for Pro-Crimper	Price Each
1	Plug	179, 179A,179B,187,187A,161,Belden 9221	A32275-NDΔ	2.48	2.14	5221185-8	A24630-ND	203.78
	Plug	AT&T 735A	A32276-NDΔ	2.83	2.44	1-5221185-8	A24632-ND	333.30
	Plug	Belden 8218	A24577-ND	2.89	2.49	221185-3	A24632-ND	333.30
	Plug	Belden 8218	A32277-NDΔ	2.83	2.44	5221185-3	A24632-ND	333.30
	Plug	Belden 1164A, 1167A	A30566-ND	2.48	2.14	1-221185-5	A24632-ND	333.30
	Plug	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32278-NDΔ	2.48	2.14	5221185-2	A24597-ND	119.69
	Plug	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A32279-NDΔ	2.46	2.12	5221185-9	A24597-ND	119.69
	Plug	Belden 9145, AT&T 734A	A32280-NDΔ	2.46	2.12	1-5221185-0	A24597-ND	119.69
	Plug	Belden 9248, 9114	A32281-NDΔ	2.48	2.14	5221185-1	A24633-ND	203.78
	Plug	6, 6A	A24591-ND	3.88	3.34	221185-7	A24631-ND	149.99
	Plug	6, 6A	A32282-NDΔ	3.05	2.62	5221185-7	A24631-ND	149.99
	Plug	Belden 8281, 9141, 9231, Western Electric 724, 728 3049	A32283-NDΔ	2.46	2.12	5221185-5	A24631-ND	149.99
2	Right Angle Plug	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24593-ND	14.80	12.73	221402-2	A24597-ND	119.69
	Right Angle Plug	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32284-NDΔ	13.20	11.36	5221402-2	A24597-ND	119.69
3	Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32285-NDΔ	4.85	4.18	5221199-5	A24630-ND	203.78
4	Bulkhead Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32286-NDΔ	5.13	4.41	5221221-5	A24630-ND	203.78

BNC Hex Crimp Connectors 75 Ohm

Collar and Outer Contacts: Nickel Plated Center Contacts: Gold MIL-G-45204

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	 25	AMP Part No.	Dies for Pro-Crimper	Price Each
1	Plug	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32287-NDΔ	3.63	3.12	5413589-8	A9993-ND	42.00
	Plug	AT&T 735A	A32288-NDΔ	3.63	3.12	1-5413589-0	A9992-ND	42.00
	Plug	AT&T KS 19224 L2	A1824-ND	4.03	3.47	413589-4	—	—
	Plug	Belden 8218	A1823-ND	3.63	3.12	413589-3	—	—
	Plug	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32289-NDΔ	3.63	3.12	5413589-2	A9992-ND	42.00
	Plug	302, Belden 89269, 88241, Hi-Temp 62A, Times PL-62, Berk Tek BTDC-59, BTDC-62	A1821-ND	4.25	3.66	413589-1	A9992-ND	42.00
	Plug	Belden 8212, 9104, 9112, 9167, 9240, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A1829-ND	3.63	3.12	413589-9	A9992-ND	42.00
	Plug	Belden 9145, AT&T 734A	A1827-ND	3.88	3.34	413589-7	A9992-ND	42.00
	Plug	Belden 8281, 9141, 9231, Western Electric 724, 728, 3049	A1825-ND	3.70	3.19	413589-5	—	—
2	Plug, Right Angle	179, 179A, 179B, 187, 187A, 161, Belden 9221	A1873-ND	15.55	13.38	413588-8	A9993-ND	42.00
	Plug, Right Angle	AT&T 735A	A1881-ND	18.60	16.00	1-413588-0	—	—
	Plug, Right Angle	AT&T 735A	A32290-NDΔ	14.25	12.26	1-5413588-0	—	—
	Plug, Right Angle	AT&T KS 19224 L2	A1876-ND	14.25	12.26	413588-4	A9993-ND	42.00
	Plug, Right Angle	Belden 8218	A1875-ND	14.53	12.50	413588-3	A9992-ND	42.00
	Plug, Right Angle	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A1872-ND	14.25	12.26	413588-2	—	—
	Plug, Right Angle	140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32291-NDΔ	13.58	11.68	5413588-2	—	—
	Plug, Right Angle	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A1880-ND A32292-NDΔ	15.23 13.58	13.10 11.68	413588-9 5413588-9	A9992-ND A9992-ND	42.00 42.00
3	Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A1838-ND	5.20	4.48	413760-8	A9993-ND	42.00
	Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A32293-NDΔ	5.18	4.46	5413760-8	A9993-ND	42.00
	Jack	Belden 8218	A32294-NDΔ	5.18	4.46	5413760-3	A9992-ND	42.00
	Jack	302, Belden 89269, 88241, Hi-Temp 62A, Times PL-62, Berk Tek BTDC-59, BTDC-6	A1831-ND	5.20	4.48	413760-1	A9992-ND	42.00
	Jack	Belden 8212, 9104, 9112, 9240, 9167, 9259, 9266, Times FM-59, (RG-59 Type with 20 AWG C.C.)	A1839-ND A32295-NDΔ	6.00 5.58	5.16 4.80	413760-9 5413760-9	A9992-ND A9992-ND	42.00 42.00
4	Bulkhead Jack	179, 179A, 179B, 187, 187A, 161, Belden 9221	A1848-ND	5.50	4.73	413590-8	A9993-ND	42.00
	Bulkhead Jack	AT&T KS 19224 L2	A32296-NDΔ	5.23	4.50	5413590-4	A9993-ND	42.00
	Bulkhead Jack	Belden 8218	A1843-ND	7.45	6.41	413590-3	A9992-ND	42.00

Δ RoHS Compliant

RF Connectors

BNC Bulkhead Jack Connectors 75 Ohm

Center Contact: Gold

Fig. 1

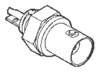

Fig. 2

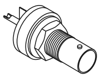

Fig.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Jack, Solder, Nickel	A24598-ND	3.25	2.80	221244-1
2	Jack, Sealed Solder, Nickel Jack, Sealed Solder, Nickel	A24599-ND A32348-NDΔ	6.45 6.45	5.55 5.55	414217-1 5414217-1

Δ **RoHS Compliant**

BNC PC Board/Panel Mount Jack Connectors 75 Ohm

Hardware not included

Fig. 1

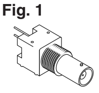

Fig. 2

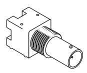

Fig.	Description	Contact Finish	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Vertical, Metal	Gold 30µ	A32401-NDΔ	7.43	6.39	5222132-1
2	Right Angle, VALOX, White	Gold 30µ	A24600-ND	8.15	7.01	413194-1
	Right Angle, VALOX, White	Gold 30µ	A32402-NDΔ	8.15	7.01	5413194-1
	Right Angle, VALOX, Black	Gold 30µ	A32403-NDΔ	8.15	7.01	5413194-2
	Right Angle, VALOX, White	Gold 50µ	A24602-ND	9.60	8.26	414459-1
	Right Angle, VALOX, White	Gold 50µ	A32404-NDΔ	9.60	8.26	5414459-1
	Right Angle, Metal	Gold 30µ	A32405-NDΔ	5.25	4.52	5222092-1

Δ **RoHS Compliant**

BNC PC Board Mount Jack Connectors 75 Ohm

Center Contact: Gold (except A24607-ND: Silver)

Fig. 1

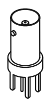

Fig. 2

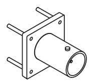

Fig. 3

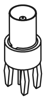

Fig. 4

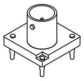

Fig. 5

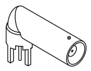

Fig. 6

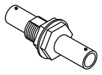

Fig.	Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Vertical Metallized, Tin-Lead	A32406-NDΔ	4.10	3.53	5414394-1
2	Vertical Metallized, Nickel Vertical Metallized, Nickel	A24607-ND A32407-NDΔ	6.30 5.78	5.42 4.97	413986-1 5413986-1
3	Press Fit, Nickel, L (excl. pins): .810 Press Fit, Nickel, L (excl. pins): .810 Press Fit, Nickel, L (excl. pins): .640 Press Fit, Nickel, L (excl. pins): .640	A24608-NDΔ A32408-NDΔ A24609-NDΔ A32409-NDΔ	4.60 4.60 6.30 6.30	3.96 3.96 5.42 5.42	222462-1 5222462-1 414088-1 5414088-1
4	Vertical Metallized (PCB: .125 min.)	A32410-NDΔ	8.98	7.72	5221336-3
5	Right Angle, Nickel Right Angle, Tin-Lead Right Angle, Tin-Lead	A32411-NDΔ A24612-ND A32492-NDΔ	6.03 9.25 8.65	5.19 7.96 7.44	5413558-1 413558-2 5413558-2
6	Bulkhead Jack Adapter, Nickel	A24613-ND	9.70	8.35	222117-1

Δ **RoHS Compliant**

BNC JIS Hex Crimp Cable Plug Connectors 50 Ohm and 75 Ohm

Body Plating: Nickel Center Contact: Gold

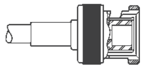

Impedance Ohm	JIS Cable	Digi-Key Part No.	Price Each 1	25	AMP Part No.	CERTI-CRIMP Hand Tool
75	3C-2W	A24543-ND	3.68	3.17	1-413589-4	A9992-ND
	2.5C-2W	A24545-ND	3.68	3.17	1-413589-5	A9992-ND
50	3D-2V	A24547-ND	2.31	1.99	3-221128-1	A9972-ND
	1.5D-2V	A24548-ND	2.31	1.99	3-221128-2	—

BNC RF PC Board / Panel Mount Decoupled Jack Connectors

50 Ohm

Body Plating: VALOX, Black Center Contact: Gold
Hardware not included

Fig. 1

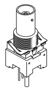

Fig. 2

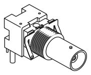

Fig.	Impedance Ohm	Mounting Post Length (Inches)	Capacity/Voltage	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Vertical							
1	50	.137	9400pF / 1500V	A32414-NDΔ	6.80	5.85	5413476-2
Low Profile, Right Angle							
2	50	.158	9400pF / 1500V	A32415-NDΔ	3.72	3.20	5413515-2
	50	.110	7900pF / 1600V	A32416-NDΔ	4.27	3.68	5413515-7
	50	.185	9400pF / 1500V	A24621-ND	3.73	3.21	413515-8
	50	.185	9400pF / 1500V	A32417-NDΔ	3.32	2.86	5413515-8
	50	.110	9400pF / 1500V	A32418-NDΔ	3.72	3.20	5413515-9
Standard, Right Angle							
2	50	.158	9400pF / 1500V	A32419-NDΔ	4.40	3.79	5413524-2
	50	.110	9400pF / 1500V	A24625-ND	5.15	4.43	413524-5
	50	.110	9400pF / 1500V	A32420-NDΔ	5.00	4.30	5413524-5

Δ **RoHS Compliant**

Terminator Plugs

50, 75, 93 Ohm

Body Plating: Nickel Center Contact: Gold

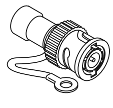

Description	Resistor Specification	Digi-Key Part No.	Price Each 1	25	AMP Part No.
With Tether	1 Watt, 50 Ohm	A24563-ND	7.90	6.80	221629-1
Without Tether	1 Watt, 50 Ohm	A24564-ND	5.85	5.04	221629-4
With Tether	1 Watt, 75 Ohm	A24565-ND	15.23	13.10	221629-2
Without Tether	1 Watt, 75 Ohm	A24566-ND	9.13	7.85	221629-5
With Tether	1 Watt, 50 Ohm*	A24568-ND	8.23	7.08	1-221629-6
Without Tether	1 Watt, 93 Ohm	A24567-ND	8.83	7.59	221629-6

* Tether is conductive with #4 stud size.

BNC Action Pin / Bulkhead Decoupled Jack Connectors

Body Plating: Nickel Center Contact: Gold

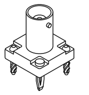

Description	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Jack, PC Board Action Pin, 50 Ohm	A24627-ND	16.08	13.83	414553-1

Twin BNC and Twin-Ax Jack Connectors

Fig. 1

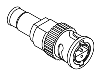

Fig. 2

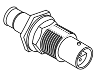

Fig. 3

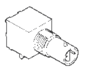

Fig. 4

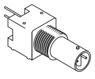

Fig. 5

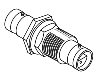

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	Plug, Silver* Plug, Nickel*	108, 108A, Belden 9272, 89272 108, 108A, Belden 9272, 89272	A24705-ND A24706-ND	22.08 17.10	18.99 14.71	332225 332225-5
2	Bulkhead Jack, Silver*	108, 108A, Belden 9272, 89272	A24707-ND	25.93	22.30	332342
3	Right-Angle Jack w/Mounting Posts, VALOX, White	—	A24708-ND† A32412-ND†Δ	10.85 10.88	9.34 9.36	228686-1 5228686-1
4	Vertical Jack w/Mounting Posts, VALOX, White	—	A24709-ND† A32413-ND†Δ	21.65 21.25	18.62 18.28	221198-1 5221198-1
5	Bulkhead Jack Adapter, Nickel (Center Contact: Silver)	—	A24710-ND	25.68	22.09	332215

Δ **RoHS Compliant** * Center contact: silver † Hardware not included

Mini BNC Connectors 75 Ohm

Dim. in inches (mm)

Fig. 1

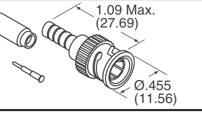

Fig. 2

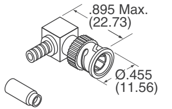

Fig. 3

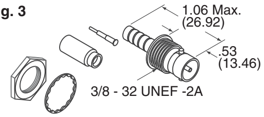

Fig. 4

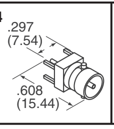

Fig. 5

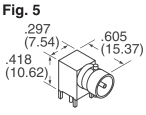

Features: • Offer 40% more interconnects than standard BNC connectors in the same area • Ideal for telecommunications and broadband applications **Materials:** • Brass/nickel shells, bodies and mounting nuts • Phosphor bronze and brass/gold center contacts **Specifications:** • Dielectrics: PTFE • Freq.: DC 2GHz • Nom. Impedance: 75Ω • Voltage Rating: 300V • Temp. Rating: -40°C ~ 85°C

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	100	AMP Part No.
1	Straight Cable Plug	735A 734A RG 179	A30530-ND A30531-ND A30532-ND	10.03 9.85 9.85	6.82 6.70 6.70	1274563-1 1274563-2 1274563-3
2	Right Angle Cable Plug	735A 734A RG 179	A30533-ND A30534-ND A30535-ND	11.13 10.93 10.93	7.57 7.43 7.43	1274566-1 1274566-2 1274566-3
3	Bulkhead Cable Jack	735A 734A RG 179	A30536-ND A30537-ND A30538-ND	7.15 7.03 7.03	4.87 4.78 4.78	1274568-1 1274568-2 1274568-3
4	Straight Jack Receptacle	—	A30539-ND	6.30	4.29	1274571-1
5	Right Angle Jack Receptacle	—	A30540-ND	9.85	6.70	1274572-1
Die Set for 735A/RG179, use with A9996-ND.................			A9993-ND	42.00	—	58425-2
Die Set for 734A, use with A9996-ND.........................			A9992-ND	42.00	—	58425-1

RF Connectors

Fig. 1 MIL Type
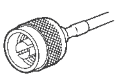

Fig. 2 Commercial Type
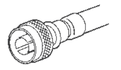

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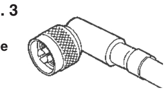

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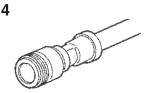

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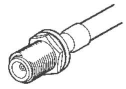

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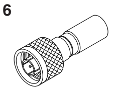

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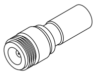

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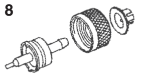

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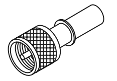

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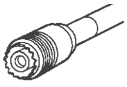

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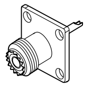

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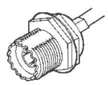

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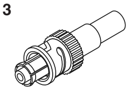

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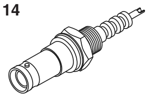

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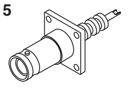

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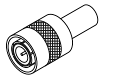

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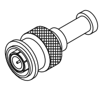

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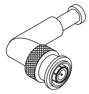

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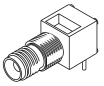

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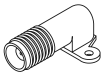

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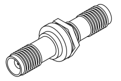

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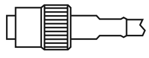

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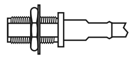

Fig. 24
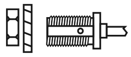

N Dual Crimp Connectors 50 Ohm

Center contact plating: gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
			Dual Crimp			
1	Plug, Nickel	58, 58A, 58B, 58C	A1147-ND	17.80	15.31	1-225661-2
	Plug, Nickel		A32421-ND†	10.60	9.12	1-5225661-2
	Plug, Silver		A1148-ND	19.63	16.88	225361-1
	Plug, Nickel	223, 55, 55A, 55B	A1149-ND	11.35	9.77	1-225661-3
			A32422-ND†	10.60	9.12	1-5225661-3
	Plug, Silver	142, 142A, 142B, 400	A1151-ND	18.85	16.22	225361-4
	Plug, Nickel	8, 8A, 213	A1152-ND*	13.30	11.44	225661-2
	Plug, Nickel		A32423-ND*†	12.18	10.48	5225661-2
	Plug, Silver		A1153-ND*	21.13	18.17	51692-2
	Plug, Nickel, Weatherproof		A1154-ND*	25.80	22.19	225662-2
	Plug, Nickel, Weatherproof		A32424-ND*†	13.68	11.77	5225662-2
	Plug, Silver	393	A1157-ND*	22.80	19.61	1-225092-1
	Plug, Nickel	9, 9A, 9B, 214	A1158-ND*	20.90	17.98	225661-1
			A32425-ND*†	12.18	10.48	5225661-1
	Plug, Nickel, Weatherproof	142, 142A, 142B, 400	A24652-ND	20.45	17.59	225699-1
			A32426-ND†	17.03	14.65	5225699-1
2	Plug, Nickel	8, 8A, 213	A1162-ND*	12.68	10.91	1-227086-0
			A32427-ND*†	7.45	6.41	1-5227086-0
3	Right Angle Plug, Nickel	8, 8A, 213	A24654-ND*	36.30	31.22	225669-2
	Right Angle Plug, Nickel		A32428-ND*†	33.25	28.60	5225669-2
	Right Angle Plug, Silver		A1137-ND*	61.00	52.46	225014-2
	Right Angle Plug, Silver, Weatherproof	8, 8A, 213	A1138-ND*	60.78	52.27	225389-2
	Right Angle Plug, Silver	9, 9A, 9B, 214	A1140-ND*	54.08	46.51	225014-3
	Jack, Nickel, Weatherproof	58, 58A, 58B, 58C	A24655-ND	23.53	20.24	1-225664-2
			A32429-ND†	19.60	16.86	1-5225664-2
4	Jack, Nickel, Weatherproof	8, 8A, 213	A24656-ND*	38.60	33.20	225664-2
	Jack, Nickel, Weatherproof		A32430-ND*†	22.55	19.40	5225664-2
	Jack, Silver		A1142-ND*	33.58	28.88	225093-2
			Hex Crimp			
2	Plug, Nickel	115A, Belden 89880, 9880	A24659-ND**	13.70	11.79	414160-3
			Semi-Rigid Cable Crimp			
1	Plug, Nickel	402, 141	A24660-ND†	37.98	32.66	228440-1
5	Bulkhead Jack, Nickel, Rear Mount	402, 141	A24661-ND†	46.75	40.21	228658-1
			Terminators			
6	Plug, Nickel	—	A24662-ND	38.60	33.20	227953-1
7	Jack, Nickel	—	A24663-ND	20.08	17.27	227997-1

*Uses CERTI-CRIMP: A24574-ND **Uses CERTI-CRIMP: A9975-ND † ***RoHS Compliant***

UHF Connectors

Center contact plating: Tin

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
			Standard UHF Connectors			
8	Plug, Single Crimp, Tin Plated	58, 58A, 58B, 58C	A1107-ND	13.73	11.81	226279-1
			A32431-ND†	10.60	9.12	5226279-1
			Miniature UHF Connectors			
9	Plug, Dual Crimp, Nickel	58, 58A, 58B, 58C	A24671-ND	1.80	1.55	226600-1
10	Jack, Crimp. Nickel	58, 58A, 58B, 58C	A1104-ND	6.20	5.33	226602-1
			A32432-ND†	4.51	3.88	5226602-1
11	Panel Solder Jack, Nickel	—	A1131-ND	12.18	10.48	226601-1
			A32433-ND†	4.43	3.81	5226601-1
			A24673-ND	4.85	4.18	226601-3
12	Bulkhead Jack, Crimp, Nickel	174, 316, 188, 188A	A24674-ND†	7.98	6.86	228665-2
		58, 58A, 58B, 58C	A1105-ND†	4.93	4.24	414045-1
			A32434-ND†	4.93	4.24	5414045-1

† ***RoHS Compliant***

SHV Dual Crimp Connectors

Center contact plating: Gold

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
13	Plug, Nickel	58, 58A, 58B, 58C	A24664-ND	47.53	40.88	51426-4
	Plug, Nickel		A32435-ND†	34.48	29.65	5051426-4
	Plug, Silver		A24665-ND	40.63	34.94	51426-1
	Plug, Nickel	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A32436-ND†	34.48	29.65	5051426-5
	Plug, Silver	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24667-ND	36.93	31.76	51426-2
			A32437-ND†	36.93	31.76	5051426-2
14	Bulkhead Solder Jack, Silver	—	A24668-ND	23.93	20.58	51494-1
	Bulkhead Solder Jack, Nickel		A24669-ND†	15.18	13.06	51494-2
15	Panel Solder Jack, Nickel	—	A24670-ND†	44.13	37.95	51421-2

† ***RoHS Compliant***

TNC Hex and Dual Crimp Connectors 50 Ohm

Center Contacts: Gold
Dies for Pro-Crimper: **A:** A9994-ND **B:** A24570-ND **C:** A24574-ND

Fig.	Description	Die	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
				Hex Crimp			
16	Plug	—	174, 188, 188A, 316	A24635-ND	4.80	4.13	222506-5
				A32438-ND†	4.68	4.03	5222506-5
	Plug	A	58, 58A, 58B, 58C	A24636-ND	4.25	3.66	222506-1
				A32439-ND†	3.88	3.34	5222506-1
				Dual Crimp			
17	Plug, Weatherproof	—	223, 55, 55A, 55B	A24638-ND◆	30.90	26.58	225550-1
	Plug, Weatherproof	—	142, 142A, 142B, 400	A24639-ND◆	18.53	15.94	225555-6
				A32440-ND◆†	18.53	15.94	5225555-6
	Plug	B	124, 140, 210, 62, 62A, 62B, 59, 59A, 59B, Belden 9291, 9209, 9269	A24640-ND◆	3.65	3.14	227000-7
	Plug, Weatherproof	B	RG58A/U and RG58C/U	A29097-ND	22.14	18.45	225555-2
				A32441-ND†	18.08	15.55	5225555-2
	Plug, Weatherproof	C	8, 8A, 213	A24641-ND◆	40.00	34.40	225555-7
				A32442-ND◆†	35.63	30.64	5225555-7
	Plug, Weatherproof	C	Alpha 9847, Belden 8213, 9292	A24642-ND◆	23.55	20.26	1-225550-3
			9, 9A, 9B, 214	A24644-ND	34.15	29.37	225550-8
18	Right Angle Plug, Weatherproof	—	58, 58A, 58B, 58C	A24645-ND	35.95	30.92	225559-2
				A32443-ND†	35.25	30.32	522559-2
	Right Angle Plug, Weatherproof	—	142, 142A, 142B, 400	A24646-ND	38.38	33.01	225554-6
	Right Angle Plug, Weatherproof	C	393, 225	A24647-ND	43.48	37.39	1-225554-1

◆ Mil Type † ***RoHS Compliant***

TNC PC Board / Panel Mount Connectors 50 Ohm

Center Contacts: Gold

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.
19	Right Angle Jack, Metal With Mounting Posts	A24648-ND	9.30	8.00	227839-1
		A32444-ND†	9.10	7.83	5227839-1
20	Right Angle Jack, Nickel	A24650-ND	14.58	12.54	413933-1
21	Bulkhead Jack Adapter, Nickel	A24651-ND†	15.05	12.95	221500-1

† ***RoHS Compliant***

Miniature Threaded Connectors 50 Ohm ***RoHS Compliant***

Fig.	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	Price Each 25	AMP Part No.	Tool	Price Each
22	Plug, TEFLON	178, 178A, 178B, 196, 196A	A24699-ND	13.83	11.89	2-330311-2	—	—
		174, 316, 188, 188A	A24700-ND	13.68	11.77	2-330311-1	A28796-ND	2760.92
		180, 180A, 180B, 195, 195A	A24701-ND	11.95	10.28	1-330723-0	—	—
23	Jack, TEFLON	180, 180A, 180B, 195, 195A	A24702-ND	22.55	19.40	1-330599-0	—	—
24	Solder Jack Adapter	—	A24703-ND	20.35	17.51	329852	—	—

Hand Tools and Die Sets for RF Connectors

Term. Type (Crimp)	Description	Digi-Key Part No.	Price Each	AMP Part No.
50 Ohm				
Dual	Pro-Crimper II (BNC)	A24786-ND	96.00	58433-1
—	Pro-Crimper Hand Tool	A9996-ND	66.00	354940-1
Hex	Pro-Crimper Die Set	A9995-ND	42.00	58436-3
Hex	Pro-Crimper Die Set	A9994-ND	42.00	58436-1
Hex	Pro-Crimper Die Set	A9960-ND	42.00	58436-2
Dual	Certi-Crimp with Die Set	A24574-ND	1137.12	220015-1
Dual	Pro-Crimper Die Set	A24570-ND	52.65	58435-1
Dual	Pro-Crimper Die Set	A24780-ND	174.23	318450-2
Dual	Pro-Crimper Die Set	A24779-ND	724.17	58330-1
Dual	Pro-Crimper Die Set	A24781-ND	545.40	318452-2
Dual	Pro-Crimper Die Set	A24777-ND	127.26	220189-3
Dual	Pro-Crimper Die Set	A24778-ND	127.26	220189-1
Dual	Pro-Crimper Die Set	A24776-ND	244.68	58537-1
—	N-Type Coaxicon Die Set	A29142-ND	362.09	91902-1
Dual	Pro-Crimper Die Set	A24775-ND	127.26	220189-2
Dual	Certi-Crimp with Die Set	A24772-ND	1258.79	69331-1
Dual	Certi-Crimp with Die Set	A9970-ND	240.89	91904-2

Term. Type (Crimp)	Description	Digi-Key Part No.	Price Each	AMP Part No.
Dual	BNC Coaxial Die Set	A30570-ND	406.02	58539-1
Dual	BNC Coaxial Die Set	A30571-ND	240.89	1424050-1
BNC Pro-Crimper Dies, 75 Ohm				
Hex	BNC Die Set	A9993-ND	42.00	58425-2
Hex	BNC Die Set	A9992-ND	42.00	58425-1
—	Crimp Tool with Die Set	A9803-ND	106.05	58531-2
—	Crimp Tool with Die Set	A9804-ND	106.05	58531-1
—	Crimp Tool with Die Set	A9805-ND	106.05	58531-3
Dual	Die Set	A24597-ND	119.69	58085-1
Dual	Die Set	A24630-ND	203.78	318451-2
Dual	Die Set	A24631-ND	149.99	58538-1
Dual	Die Set	A24632-ND	333.30	58174-1
Dual	Die Set	A24633-ND	203.78	58086-1
—	BNC Coaxicon Die Set	A29143-ND	362.09	91904-1
N-Type				
—	Crimp Tool with Die Set	A9807-ND	127.26	58501-1
Hex	Die Set, use with A9996-ND	A9975-ND	72.72	58485-1
Cable Stripper				
—	Cable Stripping Tool	A1110-ND	108.68	603995-1

SMA Fixed Length Semi-Rigid Cables

Fig. 1

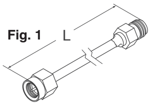

Fig. 2

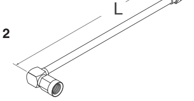

Materials: • Stainless steel body • Center contacts: gold plated Beryllium Copper • Insulators: PTFE • Gaskets: silicone rubber

Specifications: • Impedance: 50Ω • V.S.W.R: DC 18GHz (maximum 1.05 + 0.005f), f = frequency range (GHz) • Insertion Loss: DC 18GHz (maximum 0.03 $\sqrt{f}$ dB), f = frequency range (GHz) • Insulation Resistance: DC 500V (minimum 5000MΩ) • Dielectric Withstanding Voltage: 1000V rms at sea level • Contact Resistance: AC 50mA (maximum 3mΩ)

Cable Type	Dim. L (mm)	Digi-Key Part No.	Price Each			Waka Part No.
			1	10	25	
SMA Plug to Plug - Fig. 1						
SX-36S (.141”)	100	305-1000-ND	58.83	47.06	35.30	02Y5715#0100
	200	305-1001-ND	64.95	51.96	38.97	02Y5715#0200
	500	305-1002-ND	74.15	59.32	44.49	02Y5715#0500
	1000	305-1003-ND	92.83	74.26	55.70	02Y5715#1000
SX-22S (.085”)	100	305-1004-ND	61.88	49.50	37.13	02Y5716#0100
	200	305-1005-ND	68.03	54.42	40.82	02Y5716#0200
	500	305-1006-ND	77.50	62.00	46.50	02Y5716#0500
	1000	305-1007-ND	95.90	76.72	57.54	02Y5716#1000
SX-12S (.047”)	100	305-1008-ND	108.43	86.74	65.06	02Y5717#0100
	200	305-1009-ND	114.55	91.64	68.73	02Y5717#0200
	500	305-1010-ND	123.75	99.00	74.25	02Y5717#0500
	1000	305-1011-ND	133.23	106.58	79.94	02Y5717#1000
SMA Plug to Jack - Fig. 1						
SX-36S (.141”)	100	305-1012-ND	64.95	51.96	38.97	02Y5718#0100
	200	305-1013-ND	71.08	56.86	42.65	02Y5718#0200
	500	305-1014-ND	80.55	64.44	48.33	02Y5718#0500
	1000	305-1015-ND	98.95	79.16	59.37	02Y5718#1000
SX-22S (.085”)	100	305-1016-ND	68.03	54.42	40.82	02Y5719#0100
	200	305-1017-ND	74.15	59.32	44.49	02Y5719#0200
	500	305-1018-ND	83.63	66.90	50.18	02Y5719#0500
	1000	305-1019-ND	102.03	81.62	61.22	02Y5719#1000
SX-12S (.047”)	100	305-1020-ND	111.50	89.20	66.90	02Y5720#0100
	200	305-1021-ND	117.63	94.10	70.58	02Y5720#0200
	500	305-1022-ND	126.83	101.46	76.10	02Y5720#0500
	1000	305-1023-ND	136.30	109.04	81.78	02Y5720#1000
SMA Plug to Plug Right Angle - Fig. 2						
SX-36S (.141”)	100	305-1024-ND	64.55	51.64	38.73	02Y7470#0100
	200	305-1025-ND	68.13	54.50	40.88	02Y7470#0200
	500	305-1026-ND	71.73	57.38	43.04	02Y7470#0500
	1000	305-1027-ND	78.88	63.10	47.33	02Y7470#1000
SX-22S (.085”)	100	305-1028-ND	60.98	48.78	36.59	02Y7471#0100
	200	305-1029-ND	64.55	51.64	38.73	02Y7471#0200
	500	305-1030-ND	68.13	54.50	40.88	02Y7471#0500
	1000	305-1031-ND	75.30	60.24	45.18	02Y7471#1000
SMA Plug Right Angle to Jack - Fig. 2						
SX-36S (.141”)	100	305-1032-ND	64.55	51.64	38.73	02Y7474#0100
	200	305-1033-ND	68.13	54.50	40.88	02Y7474#0200
	500	305-1034-ND	71.73	57.38	43.04	02Y7474#0500
	1000	305-1035-ND	78.88	63.10	47.33	02Y7474#1000
SX-22S (.085”)	100	305-1036-ND	71.73	57.38	43.04	02Y7475#0100
	200	305-1037-ND	75.30	60.24	45.18	02Y7475#0200
	500	305-1038-ND	78.88	63.10	47.33	02Y7475#0500
	1000	305-1039-ND	86.05	68.84	51.63	02Y7475#1000

BNC and F Connector Cables Male to Male

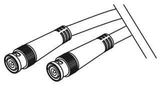

Item	Description	Cable Type		
		RG58	RG59	RG6
Conductor	Material	BC	CCS	BC
	No. / in. (mm)	1 / .32 (0.813)	1 / .253 (0.643)	1 / .253 (0.643)
Insulation	Material	LDPE	LDPE	LDPE
	Color	Natural	Natural	Natural
	Diameter: in. (mm)	.116 (2.95)	.146 (3.71)	.146 (3.71)
Braided Shielding	Material	BC	BC	BC
	No. / in. (mm)	16/7 / .051 (0.12)	16/7 / .051 (0.12)	16/7 / .051 (0.12)
Jacket	Material	PVC	PVC	PVC
	Thickness: in. (mm)	.283 (0.72)	.354 (0.9)	.354 (0.9)
	Color	Black	Black	See Below
	Outer Diameter: in. (mm)	.195 ± .006 (4.95 ± 0.15)	.236 ± .006 (6.0 ± 0.15)	.236 ± .006 (6.0 ± 0.15)
General	Tensile Strength	1,500 psi	1,500 psi	1,500 psi
	Nominal Impedance (ohm)	53.5	73	75
	Nominal Capacitance (pF/m)	93.5	68.9	44.3
	Attenuation 100MHz (db/km)	138	125	102
	Voltage Rating	5.0kv	7.0kv	3.0kv
	UL Standard	1354	1354	1354

BC = Bare Copper CCS = Copper Clad Steel LDPE = Low Density PE

Length Feet (M)	Digi-Key Part No.	Price Each	TPI Part No.
BNC Connector Cables			
RG58/U Molded Strain Relief Cables 50Ω			
1 (.30)	290-1009-ND	7.95	58-012-1M
2 (.61)	290-1010-ND	8.49	58-024-1M
3 (.91)	290-1011-ND	8.95	58-036-1M
4 (1.22)	290-1012-ND	9.44	58-048-1M
5 (1.52)	290-1013-ND	9.98	58-060-1M
6 (1.83)	290-1014-ND	10.49	58-072-1M
10 (3.05)	290-1015-ND	12.54	58-120-1M
15 (4.57)	290-1016-ND	15.18	58-180-1M
25 (7.62)	290-1017-ND	20.79	58-300-1M
50 (15.24)	290-1018-ND	31.99	58-600-1M
75 (22.86)	290-1019-ND	45.49	58-900-1M
100 (30.48)	290-1020-ND	57.49	58-1200-1M
RG59/U Molded Strain Relief Cables 75Ω			
1 (.30)	290-1021-ND	7.95	59-012-1M
2 (.61)	290-1022-ND	8.49	59-024-1M
3 (.91)	290-1023-ND	8.95	59-036-1M
4 (1.22)	290-1024-ND	9.44	59-048-1M
5 (1.52)	290-1025-ND	9.98	59-060-1M
6 (1.83)	290-1026-ND	10.49	59-072-1M
10 (3.05)	290-1027-ND	12.54	59-120-1M
15 (4.57)	290-1028-ND	15.18	59-180-1M
25 (7.62)	290-1029-ND	20.79	59-300-1M
50 (15.24)	290-1030-ND	31.99	59-600-1M
75 (22.86)	290-1031-ND	45.49	59-900-1M
100 (30.48)	290-1032-ND	57.49	59-1200-1M
F Connector Cables			
RG6/U Molded End Cables - Black			
3 (.91)	290-1081-ND	7.08	F6-3B
6 (1.83)	290-1082-ND	9.15	F6-6B
10 (3.05)	290-1083-ND	10.68	F6-10B
12 (3.66)	290-1084-ND	11.73	F6-12B
15 (4.57)	290-1085-ND	14.28	F6-15B
25 (7.62)	290-1086-ND	17.88	F6-25B
50 (15.24)	290-1135-ND	16.79	F6-50B
75 (22.86)	290-1136-ND	26.35	F6-75B
100 (30.48)	290-1137-ND	35.50	F6-100B
RG6/U Molded End Cables - White			
3 (.91)	290-1090-ND	7.41	F6-3W
6 (1.83)	290-1091-ND	9.60	F6-6W
10 (3.05)	290-1092-ND	11.01	F6-10W
12 (3.66)	290-1093-ND	12.21	F6-12W
15 (4.57)	290-1094-ND	14.61	F6-15W
25 (7.62)	290-1095-ND	18.21	F6-25W
50 (15.24)	290-1138-ND	16.79	F6-50W
75 (22.86)	290-1139-ND	26.35	F6-75W
100 (30.48)	290-1140-ND	35.50	F6-100W

Coax Adapter Connector Kit

Kit includes male and female connectors of all eight types. Any adapter can be created on the spot in just seconds. Simply screw any combination of 24 connectors to one of the six universal interfaces.

- Gold plated contacts
- Silver plated machined brass connector bodies with teflon insulation

290-1045-ND TPI Part No. TPI-3000A **$150.00**

NEW! DVI and HDMI Cables

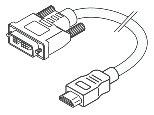

290-1913-ND DVI Male to DVI Male 2M (CT001147) **$23.55**

290-1915-ND DVI Male to HDMI Male 2M (CT001149) **$24.90**

290-1914-ND HDMI Male to HDMI Male 2M (CT001148) **$26.18**

RF Connectors MCX Type

FEATURES: • 30% Smaller than SMB • Rugged snap-on mating design • Captivated contact **ELECTRICAL RATINGS:** • **Impedance:** 50Ω • **Frequency Range:** 0-6GHz • **Working Voltage at sea level:** 335 VRMS; 250 VRMS (J531-ND and J532-ND). **MECHANICAL RATINGS:** • **Engage/Disengage Force:** 5.6 pounds maximum engagement/8 pounds typical disengagement • **Contact Retention Force:** 2.3 pounds minimum axial force • **Durability:** 500 cycles minimum

Fig. 1 – Right Angle Cable Plug

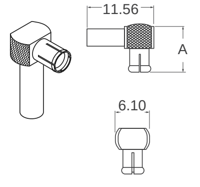

Fig. 2 – Straight Cable Plug

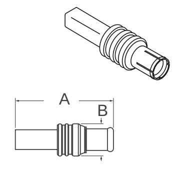

Fig. 3 – Straight Crimp Type Bulkhead Jack

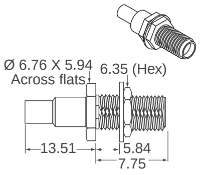

Fig. 4 – Straight Plug Receptacle

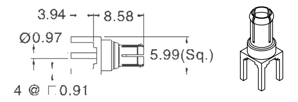

Fig. 5 – Straight PC Mount Jack

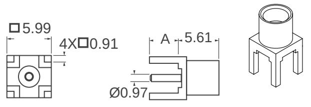

Fig. 6 – Right Angle PC Mnt. Jack

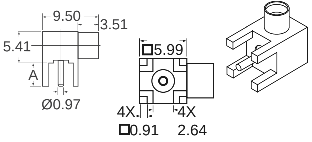

Fig. 7 – Front Mount Bulkhead Jack Receptacle

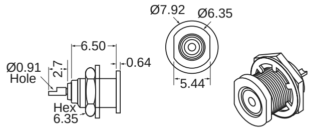

Fig. 8 – End Launch Jack

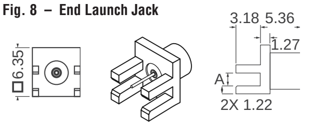

Fig. 9 – SMT Straight Jack

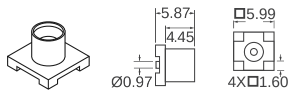

Fig. 10 – SMT Right Angle Jack

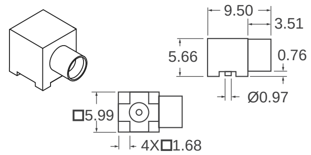

Fig. 11 – Straight Jack Receptacle - 2.54mm

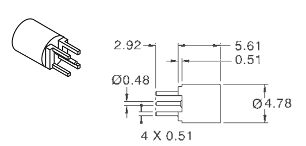

Fig.	Cable Type	Plating	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Price Each 100	Johnson Part No.
50 Ohm										
1	RG 178	Gold	11.58	—	J531-ND	5.43	4.76	4.10	3.51	133-3402-101
	RG 316	Gold	11.58	—	J535-ND	5.14	4.51	3.88	3.33	133-3403-101
	RG 178	Nickel	11.58	—	J532-ND	5.24	4.60	3.95	3.39	133-3402-106
	RG 316	Nickel	11.58	—	J536-ND	4.95	4.35	3.74	3.21	133-3403-106
	RG 188, RG 316	Nickel	7.90	—	J720-ND	4.95	4.35	3.74	3.21	133-3404-106
	.086 Semi-rigid	Gold	7.90	—	J721-ND	5.14	4.51	3.88	3.33	133-3693-101
2	RG 316	Gold	15.19	4.98	J533-ND	4.29	3.76	3.24	2.77	133-3403-001
	RG 316	Nickel	15.19	4.98	J534-ND	4.00	3.51	3.02	2.59	133-3403-006
4	—	Gold	—	—	J612-ND	7.06	6.20	5.33	4.57	133-3801-201
5	—	Gold	3.94	—	J537-ND	3.90	3.43	2.95	2.53	133-3701-201
	—	Nickel	3.94	—	J538-ND	3.87	3.40	2.92	2.50	133-3701-206
	—	Gold	2.79	—	J539-ND	4.06	3.57	3.07	2.63	133-3701-211
	—	Nickel	2.79	—	J540-ND	3.87	3.40	2.92	2.50	133-3701-216
6	—	Gold	3.94	—	J541-ND	8.91	7.82	6.72	5.76	133-3701-301
	—	Nickel	3.94	—	J542-ND	8.72	7.65	6.58	5.64	133-3701-306
	—	Gold	2.79	—	J543-ND	9.13	8.01	6.88	5.90	133-3701-311
	—	Nickel	2.79	—	J544-ND	8.91	7.82	6.72	5.76	133-3701-316
7	—	Gold	—	—	J545-ND	7.05	6.19	5.32	4.56	133-3701-401
	—	Nickel	—	—	J546-ND	6.82	5.98	5.15	4.41	133-3701-406
8	—	Gold	1.73	—	J547-ND	5.12	4.50	3.87	3.31	133-3701-801
9	—	Gold	—	—	J548-ND	5.83	5.12	4.40	3.77	133-3711-201
10	—	Gold	—	—	J549-ND	9.53	8.36	7.19	6.16	133-3711-301
11	—	Gold	—	—	J611-ND	4.63	4.06	3.49	3.00	133-3701-231
75 Ohm										
1	RG-179	Gold	7.98	—	J643-ND	5.93	5.21	4.48	3.84	133-8433-101
	RG-179DS	Gold	7.98	—	J644-ND	5.93	5.21	4.48	3.84	133-8434-101
2	RG-179	Gold	20.47	5.94	J645-ND	9.90	8.69	7.47	6.40	133-8433-001
3	RG-179	Gold	—	—	J647-ND	11.92	10.46	8.99	7.71	133-8333-401
5	—	Gold	3.80	—	J649-ND	8.41	7.38	6.35	5.44	133-8701-201
	—	Gold	2.70	—	J650-ND	5.32	4.67	4.01	3.44	133-8701-211
6	—	Gold	3.80	—	J651-ND	9.43	8.28	7.12	6.10	133-8701-301
	—	Gold	2.70	—	J652-ND	9.43	8.28	7.12	6.10	133-8701-311
8	—	Gold	1.73	—	J653-ND	5.47	4.80	4.13	3.54	133-8701-801
9	—	Gold	—	—	J654-ND	6.04	5.30	4.56	3.91	133-8711-201
Non-Magnetic MCX Connectors										
1	RG-316/u, 188, 174	Gold	7.90	11.56	J680-ND	9.06	7.95	6.84	5.86	133-9403-101
	RG-316DS, 188DS	Gold	7.90	11.56	J681-ND	9.67	8.48	7.29	6.25	133-9404-101
2	RG-316/u, 188, 174	Gold	15.19	4.98	J678-ND	11.54	10.12	8.70	7.46	133-9403-001
5	—	Gold	3.94	—	J682-ND	6.21	5.45	4.68	4.02	133-9701-201
	—	Gold	2.79	—	J683-ND	5.91	5.19	4.46	3.82	133-9701-211
6	—	Gold	3.94	—	J684-ND	9.67	8.48	7.30	6.26	133-9701-301
	—	Gold	2.79	—	J685-ND	10.58	9.28	7.98	6.84	133-9701-311
8	—	Gold	1.57	—	J686-ND	12.27	10.76	9.25	7.93	133-9701-801
Prototype Crimp Tool					J574-ND	379.46/1				141-0000-908
Hand Crimp Tool (frame only)................					J572-ND	106.63/1				140-0000-952
Die Set (RG178, 316)					J573-ND	129.48/1				140-0000-951

Adapters

Fig. 1

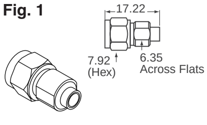

Fig. 2

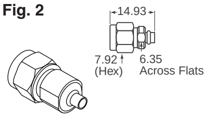

Fig. 3

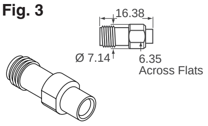

Fig. 4

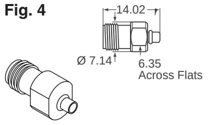

Fig. 5

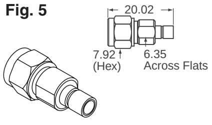

Fig. 6

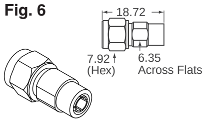

Fig. 7

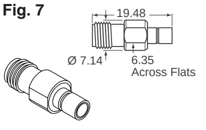

Fig. 8

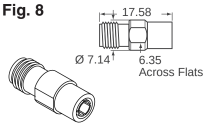

Fig. 9

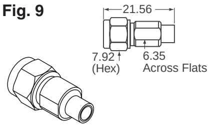

Fig. 10

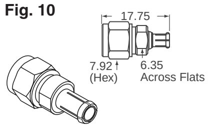

Fig. 11

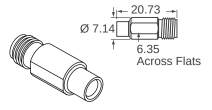

Fig. 12

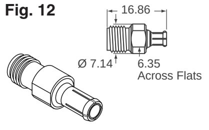

Fig. 13

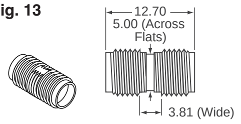

Fig. 14

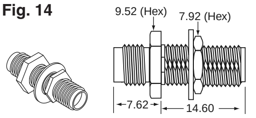

Fig. 15

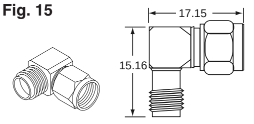

Fig. 16

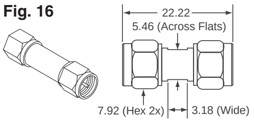

Fig. 17

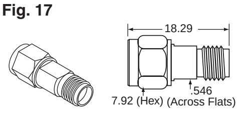

Fig.	Description	VSWR (GHz)	Frequency Range (GHz)	Digi-Key Part No.	Price Each 1	Price Each 10	Johnson Part No.
1	SMA Plug to MMCX Jack	1.05+.05f	0-6	J617-ND	38.08	31.61	134-1019-151
2	SMA Plug to MMCX Plug	1.05+.05f	0-6	J618-ND	41.25	34.25	134-1019-161
3	SMA Jack to MMCX Jack	1.05+.05f	0-6	J619-ND	34.91	28.98	134-1019-171
4	SMA Jack to MMCX Plug	1.05+.05f	0-6	J620-ND	38.08	31.61	134-1019-181
5	SMA Plug to SMB Jack	1.05+.01f	0-4	J621-ND	34.91	28.98	134-1012-011
6	SMA Plug to SMB Plug	1.05+.01f	0-4	J622-ND	38.08	31.61	134-1012-021
7	SMA Jack to SMB Jack	1.05+.01f	0-4	J623-ND	34.91	28.98	134-1012-031
8	SMA Jack to SMB Plug	1.05+.01f	0-4	J624-ND	34.91	28.98	134-1012-041
9	SMA Plug to MCX Jack	1.03+.03f	0-6	J625-ND	34.91	28.98	134-1018-001

Fig.	Description	VSWR (GHz)	Frequency Range (GHz)	Digi-Key Part No.	Price Each 1	Price Each 10	Johnson Part No.
10	SMA Plug to MCX Plug	1.03+.03f	0-6	J626-ND	38.08	31.61	134-1018-011
11	SMA Jack to MCX Jack	1.03+.03f	0-6	J627-ND	34.91	28.98	134-1018-021
12	SMA Jack to MCX Plug	1.03+.03f	0-6	J628-ND	34.91	28.98	134-1018-031
13	SMA Jack to SMA Jack	1.05+.005f	0-18	J655-ND	13.42	11.77	142-0901-801
14	SMA Jack to SMA Bulkhead Jack	1.05+.01f	0-18	J659-ND	19.16	16.80	142-0901-401
15	SMA Jack to SMA Plug / Rt. Angle	1.035+.02f	0-18	J632-ND	17.36	15.23	142-0901-941
16	SMA Plug to SMA Plug	1.05+.01f	0-18	J633-ND	15.47	13.57	142-0901-811
17	SMA Plug to SMA Jack	1.05+.005f	0-18	J656-ND	13.71	12.03	142-0901-821

Note: All Adapters are Gold plated.

RF Connectors SMA/SMB Type

Fig. 1
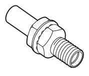

Fig. 2
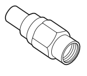

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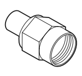

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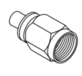

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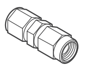

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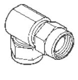

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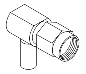

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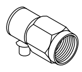

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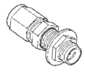

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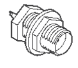

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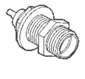

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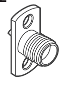

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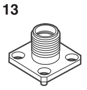

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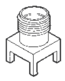

Fig. 15
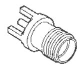

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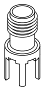

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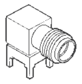

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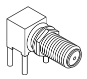

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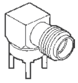

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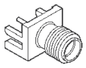

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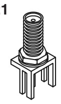

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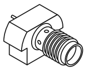

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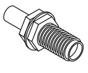

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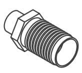

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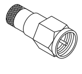

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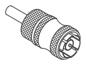

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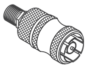

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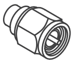

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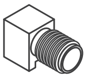

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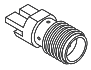

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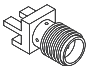

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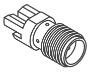

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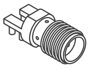

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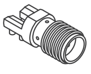

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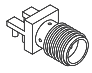

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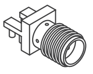

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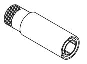

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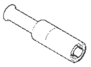

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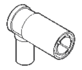

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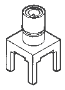

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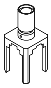

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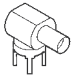

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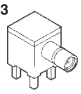

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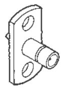

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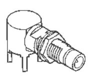

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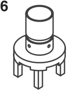

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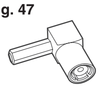

Fig.	Type (Description)	Cable Group	Plating	Digi-Key Part No.	Price Each			Johnson Part No.
					1	10	50	
				SMA Type				
1	Crimp	2*	Gold	J523-ND	9.39	8.24	7.08	142-0303-411
			Nickel	J524-ND	9.04	7.93	6.82	142-0303-416
2	Crimp	2*	Gold	J525-ND	5.66	4.96	4.27	142-0403-011
			Nickel	J526-ND	5.20	4.57	3.93	142-0403-016
3	Solder	RG-402	Gold	J485-ND	2.20	1.93	1.66	142-0694-011
		RG-402	Nickel	J486-ND	2.09	1.83	1.58	142-0694-016
		RG-405	Gold	J487-ND	4.59	4.03	3.47	142-0693-001
		RG-405	Nickel	J488-ND	4.12	3.62	3.11	142-0693-006
		.086 Semi-Rigid	Nickel	J725-ND	6.61	5.80	4.99	142-0693-066
		.141 Semi-Rigid	Nickel	J726-ND	6.61	5.80	4.99	142-0694-066
4	Crimp	RG-178/U, 196	Gold	J605-ND	7.27	6.38	5.49	142-0402-011
		4	Gold	J637-ND‡	7.89	6.92	5.95	142-0439-001
		5	Gold	J638-ND‡‡	7.89	6.92	5.95	142-0435-001
5	Clamp	2*	Gold	J474-ND	12.82	11.24	9.67	142-0203-011
		2*	Nickel	J475-ND	11.71	10.27	8.83	142-0203-016
		3**	Gold	J480-ND	20.54	18.02	15.49	142-0207-011
		3**	Nickel	J481-ND	19.39	17.01	14.62	142-0207-016
6	Clamp	2*	Nickel	J477-ND	9.53	8.36	7.19	142-0203-106
		3**	Nickel	J484-ND	10.70	9.39	8.07	142-0207-106
7	Crimp	2*	Gold	J510-ND	8.26	7.25	6.23	142-0403-101
		4	Gold	J639-ND‡	11.09	9.73	8.36	142-0439-101
		5	Gold	J640-ND‡‡	12.32	10.81	9.29	142-0435-101
		8ΔΔ	Gold	J713-ND	8.37	7.35	6.32	142-0404-101
8	Solder	.086 Semi-Rigid	Gold	J606-ND	10.37	9.10	7.82	142-0693-101
		.141 Semi-Rigid	Gold	J607-ND	10.17	8.92	7.67	142-0694-101
9	Clamp	2*	Gold	J478-ND	14.05	12.32	10.59	142-0103-401
10	Panel Mt.	—	Gold	J490-ND	6.40	5.61	4.83	142-0701-401
11	Panel Mt.	—	Gold	J489-ND	7.89	6.92	5.95	142-0701-411
12	Flange Mt.	—	Gold	J492-ND	6.38	5.60	4.81	142-0701-621
13	Flange Mt.	—	Gold	J493-ND	6.38	5.60	4.81	142-0701-631
14	PC Mt.	—	Gold	J494-ND	8.02	7.04	6.05	142-0701-211
		—	Nickel	J495-ND	7.54	6.62	5.69	142-0701-216
15	PC Mt.	—	Gold	J500-ND	5.52	4.85	4.17	142-0701-201
16	PC Mt.	—	Gold	J608-ND	5.52	4.85	4.17	142-0701-231
17	PC Mt.	—	Gold	J496-ND	13.41	11.76	10.11	142-0701-321
		—	Nickel	J497-ND	12.59	11.04	9.49	142-0701-326
18	PC Mt.	—	Gold	J569-ND	12.80	11.23	9.66	142-0701-501
		—	Nickel	J714-ND	12.23	10.73	9.22	142-0701-506
		—	Gold	J715-ND	13.14	11.52	9.91	142-0701-551
19	PC Mt.	—	Gold	J501-ND	8.86	7.77	6.68	142-0701-301
20	.062" PC Mt.	—	Gold	J502-ND	6.03	5.29	4.55	142-0701-801
	.062" PC Mt.	—	Nickel	J716-ND	5.72	5.02	4.32	142-0701-806
	.062" PC Mt.	—	Gold	J629-ND	7.20	6.32	5.43	142-0711-821
	.031" PC Mt.	—	Gold	J657-ND	6.63	5.82	5.00	142-0701-881
	.062" PC Mt.	—	Gold	J658-ND	7.03	6.17	5.30	142-0701-851
	.042" PC Mt.	—	Gold	J630-ND	8.42	7.39	6.36	142-0701-841
21	PC Mt.	—	Gold	J610-ND	8.65	7.59	6.52	142-0701-871
22	PC Mt.	—	Gold	J631-ND	6.62	5.81	5.00	142-0721-881
23	Crimp	4‡	Gold	J641-ND	12.20	10.70	9.20	142-0339-401
23	Solder	.086 Semi-Rigid	Gold	J809-ND	14.08	12.35	10.62	142-0593-421
		. 141 Semi-Rigid		J810-ND	14.08	12.35	10.62	142-0594-421
		.086 Semi-Rigid		J811-ND	17.49	15.34	13.19	142-0593-431
		.141 Semi-Rigid		J812-ND	17.49	15.34	13.19	142-0594-431
24	Solder	.086 Semi-Rigid	Nickel	J722-ND	4.94	4.34	3.73	142-0593-006
		.141 Semi-Rigid	Gold	J723-ND	7.41	6.51	5.59	142-0594-001
		.141 Semi-Rigid	Nickel	J724-ND	7.14	6.27	5.39	142-0594-006
		.086 Semi-Rigid	Gold	J727-ND	5.49	4.82	4.15	142-0593-001
25	50Ω Terminator	—	Gold	J634-ND	37.07	32.51	27.95	142-0801-861
26	Quick Connect	7Δ	Gold	J706-ND	26.51	23.25	19.99	142-1403-001
		8ΔΔ		J707-ND	26.51	23.25	19.99	142-1404-001
		3**		J708-ND	26.51	23.25	19.99	142-1407-001
		9ΔΔΔ		J709-ND	26.51	23.25	19.99	142-1408-001
27	Adapter	—	Gold	J710-ND	39.76	34.87	29.98	142-1901-821
28	Slide-On	RG-405	Gold	J711-ND	7.04	6.17	5.31	142-0693-061
		RG-402		J712-ND	7.04	6.17	5.31	142-0694-061
29	SMT	—	Gold	J717-ND	10.53	9.24	7.94	142-0711-301
30	Edge Mt.	—	Gold	J799-ND	9.60	8.42	7.24	142-0761-841
				J805-ND	9.60	8.42	7.24	142-0761-861
31	Edge Mt.	—	Gold	J800-ND	9.60	8.42	7.24	142-0761-851
				J806-ND	9.60	8.42	7.24	142-0761-871
32	Edge Mt.	—	Gold	J802-ND	9.60	8.42	7.24	142-0761-891
				J808-ND	9.60	8.42	7.24	142-0771-831
33	PC Mt.	—	Gold	J797-ND	9.60	8.42	7.24	142-0761-801
				J803-ND	9.60	8.42	7.24	142-0761-821
34	PC Mt.	—	Gold	J801-ND	9.60	8.42	7.24	142-0761-881
				J807-ND	9.60	8.42	7.24	142-0771-821
35	PC Mt.	—	Gold	J804-ND	9.60	8.42	7.24	142-0761-831
36	PC Mt.	—	Gold	J798-ND	9.60	8.42	7.24	142-0761-811
				SMB Type				
37	50Ω Terminator	—	Gold	J635-ND	16.68	14.63	12.58	131-3801-811
	75Ω Terminator	—		J636-ND	15.42	13.53	11.63	131-3801-821
38	Crimp	2*	Nickel	J464-ND	5.95	5.22	4.49	131-1403-016
39	Crimp	2*	Gold	J465-ND	5.90	5.17	4.45	131-1403-101
		2*	Nickel	J466-ND	4.95	4.35	3.74	131-1403-116
40	PC Mt.	—	Gold	J467-ND†	3.21	2.82	2.42	131-1701-201
		—	Nickel	J468-ND†	3.01	2.65	2.28	131-1701-206
		—	Nickel	J469-ND†	3.01	2.65	2.28	131-1701-216
41	PC Mt.	—	Gold	J613-ND†	2.45	2.16	1.85	131-3701-261
		—	Nickel	J614-ND†	2.34	2.05	1.77	131-3701-266
		—	Gold	J615-ND†	2.45	2.16	1.85	131-3701-271
		—	Nickel	J616-ND†	2.34	2.05	1.77	131-3701-276
42	PC Mt.	—	Gold	J472-ND	5.92	5.20	4.47	131-3701-301
43	PC Mt.	—	Gold	J470-ND	5.61	4.92	4.23	131-1701-371
		—	Nickel	J471-ND	5.40	4.74	4.07	131-1701-376
44	Panel Mt.	—	Gold	J520-ND	8.21	7.20	6.19	131-3701-621
45	Panel Mt.	—	Gold	J522-ND	7.61	6.67	5.74	131-3701-341
	PC Mt.	—		J719-ND	8.87	7.78	6.69	131-3701-501

(Continued)

RF Connectors SMA/SMB Type *(Cont.)*

Fig.	Type (Desc.)	Cable Group	Plating	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
46	PC Mt.	—	Gold	J718-ND	2.60	2.28	1.96	131-3701-201
				Non-Magnetic SMA Connectors				
3	Crimp	2*	Gold	J660-ND	14.85	13.02	11.20	142-9403-011
		6◊		J661-ND	28.35	24.87	21.38	142-9404-011
		3**		J664-ND	16.08	14.11	12.13	142-9407-001
8	Crimp	2*	Gold	J662-ND	22.27	19.53	16.79	142-9403-101
		6◊		J663-ND	21.21	18.72	16.00	142-9404-101
		3**		J665-ND	22.89	20.08	17.26	142-9407-101
16	PC Mt.	—	Gold	J666-ND	10.71	9.40	8.08	142-9701-201
				J667-ND	9.56	8.40	7.22	142-9701-211
20	PC Mt.	—	Gold	J669-ND	12.74	11.18	9.61	142-9701-801
				J670-ND	12.74	11.18	9.61	142-9701-811
				Non-Magnetic SMB Connectors				
38	Crimp	2*	Gold	J671-ND	17.88	15.69	13.48	131-9403-001
		6◊		J672-ND	16.33	14.33	12.32	131-9404-001
40	PC Mt.	—	Gold	J675-ND	10.64	9.34	8.03	131-9701-201
				J676-ND	10.64	9.34	8.03	131-9701-211
42	PC Mt.	—	Gold	J677-ND	18.91	16.59	14.26	131-9701-301

Fig.	Type (Desc.)	Cable Group	Plating	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
47	Crimp	2*	Gold	J673-ND	25.14	22.05	18.95	131-9403-101
		6◊		J674-ND	22.95	20.13	17.31	131-9404-101
				Tools				
	Crimp Tool Frame			J572-ND	106.63	—	—	140-0000-952
	Die Set for SMA, SMB Type (RG178, 316, 316DS, 58)			J573-ND	129.48	—	—	140-0000-951
	Semi-Rigid Cable Vice Tool			J702-ND	557.92	—	—	140-0000-962
	Cable Clamp Inserts, .086 Semi-Rigid Tool			J703-ND	96.30	—	—	140-0000-964
	Cable Clamp Inserts, .141 Semi-Rigid Tool			J704-ND	96.30	—	—	140-0000-965
				Kit				
	RF Adapter Kit , 50Ω, 70 pcs.			J687-ND	299.42	—	—	142-0000-005

*	**Group 2 Cables:** RG-161/U, RG-174/U, RG-179/U, RG-187/U, RG-188/U, RG-316/U
**	**Group 3 Cables:** RG-58/U, RG-141/U, RG-303/U
‡	**Group 4 Cables:** LMR-200, HPF-200, RF-200
‡‡	**Group 5 Cables:** LMR-240, HPF-240, RF-240
◊	**Group 6 Cables:** RG-179DS, RG-187DS, RG-188DS, RG-316DS
Δ	**Group 7 Cables:** RG-161/U, RG-174/U, RG-188/U, RG-316/U
ΔΔ	**Group 8 Cables:** RG-188DS, RG-316DS
ΔΔΔ	**Group 9 Cables:** RG-55/U, RG-142/U, RG-223/U, RG-400/U

† **J467, J468, J613 and J614** Leg Length: .155"; **J469, J615 and J616** Leg Length: .095"

SMK (2.92mm) Connectors

SMK Connectors provide an excellent solution for applications requiring high frequency transmission. Similar to the SMA interface, a smaller internal body diameter (2.92mm) and air dielectric provide a higher cutoff frequency and other key advantages: • Superior electrical performance to 40GHz • Female contacts have a three-slot construction, which enhances connectivity • The Field Replacement Jacks with a high quality hermetic seal feed thru for use in sealed circuit modules • The SMK plug interface employs more precise dimensions than an SMA and uses a shorter snub nose male pin such that the connector bodies align before the contacts engage

Fig. 1

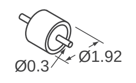

Fig. 2

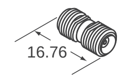

Fig. 3

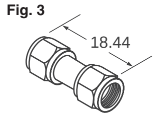

Fig. 4

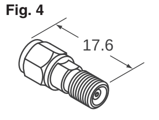

Fig. 5

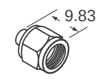

Fig. 6

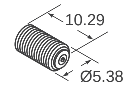

Fig. 7

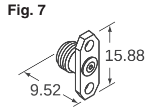

Fig. 8

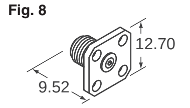

Dim. in mm

Fig.	Descripton	Plating	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
			Adapter				
1	Hermetic Seal Feedthru	—	J688-ND	15.86	12.47	10.43	142-1000-033
2	Jack to Jack In-series Adapter	Gold	J694-ND	81.90	70.88	63.00	145-0901-801
3	Plug to Plug In-series Adapter	Gold	J695-ND	93.60	81.00	72.00	145-0901-811
4	Plug to Jack In-series Adapter	Gold	J696-ND	85.80	74.25	66.00	145-0901-821
			Plug				
5	Straight Solder Type w/Contact, Slide-on Nut	Passivated	J689-ND	12.99	10.21	8.54	145-0693-002
	Straight Solder Type w/Contact, Slide-on Nut	Passivated	J690-ND	12.62	9.92	8.30	145-0694-002
			Receptacle				
6	Thread Mount Field Replaceable	Passivated	J691-ND	13.97	10.98	9.18	145-0701-002
7	2-Hole Flange Mount Jack	Passivated	J692-ND	21.56	16.94	14.17	145-0701-602
8	4-Hole Flange Mount Jack	Passivated	J693-ND	20.09	15.79	13.21	145-0701-612

Description	Digi-Key Part No.	Price Each	Johnson Part No.
	Tools		
Bead Assembly Tool	J697-ND	27.90	140-0000-957
Body Soldering Tool for .086 Semi-Rigid	J698-ND	11.48	140-0000-958
Body Soldering Tool for .141 Semi-Rigid	J699-ND	11.48	140-0000-959
Contact Soldering Tool for .086 Semi-Rigid	J700-ND	11.62	140-0000-960
Contact Soldering Tool for .141 Semi-Rigid	J701-ND	11.62	140-0000-961
Cable Vise Tool	J702-ND	557.92	140-0000-962
Cable Clamp Insert Tool for .086 Semi-Rigid	J703-ND	96.30	140-0000-964
Cable Clamp Insert Tool for .141 Semi-Rigid	J704-ND	96.30	140-0000-965
Vise Stop Tool	J705-ND	10.85	140-0000-968

RF Connectors MMCX Type

Fig. 1 – Straight Cabled Plug

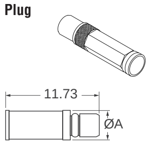

Fig. 2 – Right Angle Flexible Cabled Plug

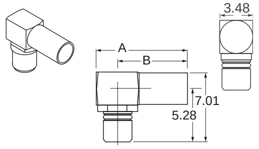

Fig. 3 – Straight Plug

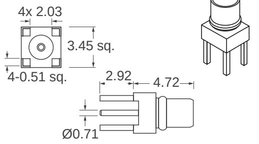

Fig. 4 – Right Angle Semi-Rigid Plug

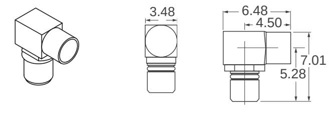

Fig. 5 – Straight Jack

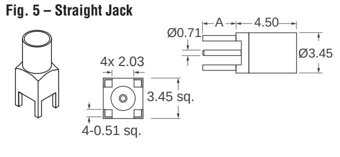

Fig. 6 – Right Angle Jack

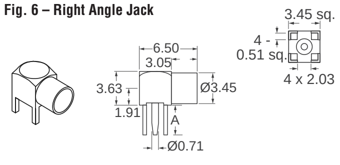

Fig. 7 – End Launch Jack

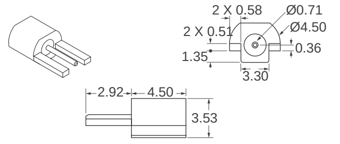

ELECTRICAL RATINGS: • **Impedance:** 50Ω • **Frequency Range:** 0-6 GHz • **Working Voltage:** 170 Vrms at sea level • **Insulation Resistance:** 1000MΩ minimum

MECHANICAL RATINGS: • **Engagement/Disengagement Force:** 8.0 pounds maximum engagement; 1.4 pounds minimum disengagement • **Contact Retention Force:** 2.0 pounds minimum axial force • **Cable Retention:** 30 pounds • **Durability:** 500 cycles minimum

ENVIRONMENTAL RATINGS • **Operating Temperature:** –55°C ~ 155°C

Fig.	Cable Type	Dim. (mm) A	B	Digi-Key Part No.	Price Each 1	10	50	Johnson Part No.
1	RG 178/U, 196	3.48	—	J589-ND	5.11	4.48	3.86	135-3402-001
	RG 316/U, 188, 161, 174	4.39	—	J590-ND	7.62	6.68	5.75	135-3403-001
	RG 316 DS, 188 DS, 187 DS	4.39	—	J591-ND	7.80	6.85	5.89	135-3404-001
	.047" Diameter Flexible, Huber K01152-07, Axon P512479A	3.48	—	J592-ND	5.11	4.48	3.86	135-3436-001
2	RG 178/U, 196	8.99	7.01	J593-ND	8.97	7.87	6.77	135-3402-101
	RG 316/U, 188, 187, 179, 161, 174	10.46	8.48	J594-ND	8.88	7.79	6.70	135-3403-101
	RG 316 DS, RG 188 DS	10.46	8.48	J595-ND	9.07	7.96	6.84	135-3404-101
	.047" Diameter Flexible, Huber K01152-07, Axon P512479A	8.99	7.01	J596-ND	8.97	7.87	6.77	135-3436-101
3	—	—	—	J601-ND	10.13	8.89	7.64	135-3801-201
4	—	—	—	J602-ND	8.97	7.87	6.77	135-3693-101
5	Straight - Gold PCB	2.92	—	J597-ND	5.16	4.53	3.90	135-3701-201
	Straight - Gold PCB	1.73	—	J598-ND	5.32	4.67	4.02	135-3701-211
6	Right Angle - Gold PCB	2.92	—	J599-ND	10.94	9.60	8.25	135-3701-301
	Right Angle - Gold PCB	1.73	—	J600-ND	10.47	9.19	7.90	135-3701-311
7	End Launch - PCB	—	—	J603-ND	6.38	5.60	4.81	135-3711-801
	Hand Crimp Tool (frame only)			J572-ND	106.63/1			140-0000-952
	Crimp Tool Die Set			J604-ND	221.90/1			140-0000-953

Fixed Length Cables

RoHS Complaint Parts Available
(parts other than indicated may be
available as RoHS compliant)

Features:

• Tested to customer specifications • Flexible cable • 0 ~ 26GHz • 50 and 75Ω • Controlled impedance

Applications:

• Voltage/Continuity Test Fixture • Interface location gauging • VSWR Quality Assurance Scalar Analyzer • VSWR/TDR Design Engineering Vector Analyzer • CNC Hardline Bender (Semi-rigid cables)

Straight to Straight

Straight to Straight

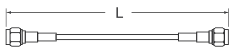

Right Angle to Right Angle

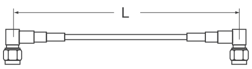

Straight to Right Angle

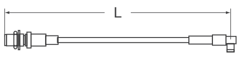

Cable Type	Dimension L (Inch)	Digi-Key Part No.	Price Each 1	10	25	Johnson Part No.
SMB Plug to SMB Plug						
RG-316	6	J1206-ND	17.15	12.86	10.86	415-0003-006
	12	J1212-ND	17.62	13.22	11.16	415-0003-012
	24	J1224-ND	19.05	14.29	12.07	415-0003-024
	36	J1236-ND	20.00	15.01	12.67	415-0003-036
SMB 75Ω Plug to SMB 75Ω Plug						
RG-179	6	J1606-ND	17.62	13.22	11.16	415-0008-006
	12	J1612-ND	18.57	13.93	11.77	415-0008-012
	24	J1624-ND	20.00	15.01	12.67	415-0008-024
	36	J1636-ND	21.91	16.43	13.88	415-0008-036
RG-179DS	6	J1806-ND	18.10	13.58	11.47	415-0010-006
	12	J1812-ND	19.52	14.65	12.37	415-0010-012
	24	J1824-ND	21.91	16.43	13.88	415-0010-024
	36	J1836-ND	24.29	18.22	15.39	415-0010-036
MCX Plug to MCX Plug — RoHS Compliant						
RG-178	6	J2206-ND	16.19	12.15	10.26	415-0014-006
	12	J2212-ND	17.15	12.86	10.86	415-0014-012
	24	J2224-ND	19.05	14.29	12.07	415-0014-024
	36	J2236-ND	20.95	15.72	13.27	415-0014-036
MCX Plug to MCX Bulkhead Jack — RoHS Compliant						
RG-316	6	J2406-ND	19.52	14.65	12.37	415-0016-006
	12	J2412-ND	20.00	15.01	12.67	415-0016-012
	24	J2424-ND	20.95	15.72	13.27	415-0016-024
	36	J2436-ND	22.38	16.79	14.18	415-0016-036
MCX 75Ω Plug to MCX 75Ω Plug						
RG-179	6	J3006-ND	22.38	16.79	14.18	415-0022-006
	12	J3012-ND	23.33	17.51	14.78	415-0022-012
	24	J3024-ND	24.76	18.58	15.69	415-0022-024
	36	J3036-ND	26.67	20.00	16.89	415-0022-036
MMCX Plug to MMCX Plug — RoHS Compliant						
RG-178	6	J728-ND	24.60	18.45	15.58	415-0066-006
	12	J729-ND	25.91	19.44	16.42	415-0066-012
	18	J730-ND	27.10	20.33	17.17	415-0066-018
	24	J731-ND	28.33	21.25	17.94	415-0066-024
RG-316	6	J732-ND	28.77	21.58	18.23	415-0067-006
	12	J733-ND	29.69	22.27	18.81	415-0067-012
	18	J734-ND	30.28	22.72	19.18	415-0067-018
	24	J735-ND	31.37	23.54	19.88	415-0067-024
MMCX Plug to SMA Bulkhead Jack — RoHS Compliant						
RG-178	6	J744-ND	26.84	20.14	17.00	415-0070-006
	12	J745-ND	28.05	21.04	17.77	415-0070-012
	18	J746-ND	29.44	22.08	18.65	415-0070-018
	24	J747-ND	30.65	22.99	19.42	415-0070-024
	36	J748-ND	33.77	25.33	21.39	415-0070-036
RG-316	6	J749-ND	27.67	20.76	17.53	415-0071-006
	12	J750-ND	28.51	21.39	18.06	415-0071-012
	18	J751-ND	29.30	21.98	18.56	415-0071-018
	24	J752-ND	30.36	22.78	19.23	415-0071-024
	36	J753-ND	32.66	24.50	20.69	415-0071-036
SMA Plug to SMA Plug						
RG-178	6	J3306-ND◊	17.81	13.36	11.29	415-0025-006
	12	J3312-ND◊	18.86	14.15	11.95	415-0025-012
	24	J3324-ND◊	20.95	15.72	13.27	415-0025-024
	36	J3336-ND◊	24.62	18.47	15.60	415-0025-036
RG-316	6	J3706-ND◊	14.98	11.24	9.49	415-0029-006
	12	J3712-ND◊	15.98	11.99	10.12	415-0029-012
	24	J3724-ND◊	15.72	11.79	9.96	415-0029-024
	36	J3736-ND◊	18.39	13.80	11.65	415-0029-036
RG-316DS	6	J4106-ND◊	14.98	11.24	9.49	415-0033-006
	12	J4112-ND◊	15.46	11.60	9.80	415-0033-012
	24	J4124-ND◊	17.39	13.05	11.02	415-0033-024
	36	J4136-ND◊	19.29	14.47	12.22	415-0033-036
RG-58	12	J4612-ND◊	17.15	12.86	10.86	415-0038-012
	24	J4624-ND◊	18.10	13.58	11.47	415-0038-024
	36	J4636-ND◊	19.05	14.29	12.07	415-0038-036
RG-142	12	J5112-ND	21.43	16.08	13.58	415-0043-012
	24	J5124-ND	27.62	20.72	17.50	415-0043-024
	36	J5136-ND	33.81	25.36	21.42	415-0043-036
Hand Formable .086	3	J822-ND◊ ***NEW!***	22.45	16.84	14.22	415-0081-003
	4	J823-ND◊ ***NEW!***	23.07	17.31	14.62	415-0081-004
	5	J824-ND◊ ***NEW!***	23.67	17.76	15.00	415-0081-005
	6	J825-ND◊ ***NEW!***	24.36	18.27	15.43	415-0081-006
	7	J826-ND◊ ***NEW!***	24.97	18.73	15.82	415-0081-007
	8	J827-ND◊ ***NEW!***	25.67	19.25	16.26	415-0081-008
	12	J828-ND◊ ***NEW!***	28.29	21.22	17.92	415-0081-012
	18	J829-ND◊ ***NEW!***	32.15	24.12	20.37	415-0081-018
	24	J830-ND◊ ***NEW!***	36.02	27.02	22.82	415-0081-024
Hand Formable .141	3	J831-ND◊ ***NEW!***	25.75	19.32	16.31	415-0082-003
	4	J832-ND◊ ***NEW!***	26.54	19.91	16.81	415-0082-004
	5	J833-ND◊ ***NEW!***	27.57	20.68	17.47	415-0082-005
	6	J834-ND◊ ***NEW!***	28.41	21.31	18.00	415-0082-006
	7	J835-ND◊ ***NEW!***	29.32	21.99	18.57	415-0082-007
	8	J836-ND◊ ***NEW!***	30.23	22.68	19.15	415-0082-008
	12	J837-ND◊ ***NEW!***	33.42	25.07	21.17	415-0082-012
	18	J838-ND◊ ***NEW!***	37.76	28.32	23.92	415-0082-018
	24	J839-ND◊ ***NEW!***	42.11	31.59	26.67	415-0082-024
SMA Plug to SMA Bulkhead Jack — RoHS Compliant						
RG-316	6	J3906-ND	16.66	12.50	10.56	415-0031-006
	12	J3912-ND	17.64	13.24	11.18	415-0031-012
	24	J3924-ND	18.62	13.97	11.80	415-0031-024
	36	J3936-ND	19.88	14.92	12.60	415-0031-036
RG-316DS	6	J4306-ND	16.19	12.15	10.26	415-0035-006
	12	J4312-ND	17.15	12.86	10.86	415-0035-012
	24	J4324-ND	19.05	14.29	12.07	415-0035-024
	36	J4336-ND	20.48	15.36	12.97	415-0035-036
RG-58	12	J4812-ND	21.91	16.43	13.88	415-0040-012
	24	J4824-ND	22.86	17.15	14.48	415-0040-024
	36	J4836-ND	23.81	17.86	15.09	415-0040-036
BNC Plug to BNC Plug						
RG-58	12	J6212-ND◊	10.95	8.22	6.94	415-0054-012
	24	J6224-ND◊	11.90	8.93	7.54	415-0054-024
	36	J6236-ND◊	13.34	10.01	8.45	415-0054-036
Belden 8218	12	J6412-ND	10.95	8.22	6.94	415-0056-012
	24	J6424-ND	12.38	9.29	7.85	415-0056-024
	36	J6436-ND	13.34	10.01	8.45	415-0056-036
RG-59	12	J6512-ND	10.95	8.22	6.94	415-0057-012
	24	J6524-ND	12.38	9.29	7.85	415-0057-024
	36	J6536-ND	13.34	10.01	8.45	415-0057-036
BNC 75Ω Plug to BNC 75Ω Plug						
Belden 8218	12	J5512-ND	15.19	11.40	9.63	415-0047-012
	24	J5524-ND	16.17	12.13	10.25	415-0047-024
	36	J5536-ND	17.56	13.17	11.13	415-0047-036
RG-59	12	J5612-ND	15.71	11.79	9.96	415-0048-012
	24	J5624-ND	16.67	12.51	10.56	415-0048-024
	36	J5636-ND	18.10	13.58	11.47	415-0048-036
Belden 735A	12	J5912-ND	17.62	13.22	11.16	415-0051-012
	24	J592 4-ND	20.95	15.72	13.27	415-0051-024
	36	J5936-ND	24.76	18.58	15.69	415-0051-036
N Plug to N Plug						
RG-58	12	J6612-ND	15.71	11.79	9.96	415-0058-012
	24	J6624-ND	16.67	12.51	10.56	415-0058-024
	36	J6636-ND	18.10	13.58	11.47	415-0058-036
RG-142	12	J6812-ND	20.95	15.72	13.27	415-0060-012
	24	J6824-ND	27.14	20.36	17.20	415-0060-024
	36	J6836-ND	33.34	25.01	21.12	415-0060-036
RG-8	12	J7012-ND◊	19.52	14.65	12.37	415-0062-012
	24	J7024-ND◊	23.81	17.86	15.09	415-0062-024
	36	J7036-ND◊	27.62	20.72	17.50	415-0062-036
SMA Plug to N Plug						
RG-58	12	J6712-ND	16.19	12.15	10.26	415-0059-012

◊ RoHS Compliant

(Continued)

Fixed Length Cables Straight to Straight *(Cont.)*

Cable Type	Dimension L (Inch)	Digi-Key Part No.	Price Each			Johnson Part No.
			1	10	25	
RG-58	24	J6724-ND	17.62	13.22	11.16	415-0059-024
	36	J6736-ND	18.57	13.93	11.77	415-0059-036
RG-142	12	J6912-ND	20.95	15.72	13.27	415-0061-012
	24	J6924-ND	27.62	20.72	17.50	415-0061-024
	36	J6936-ND	33.34	25.01	21.12	415-0061-036
SMA Plug to BNC Plug						
RG-316	6	J3606-ND◊	15.15	11.36	9.60	415-0028-006
	12	J3612-ND◊	15.55	11.67	9.85	415-0028-012
	24	J3624-ND◊	16.48	12.37	10.44	415-0028-024
	36	J3636-ND◊	17.76	13.33	11.25	415-0028-036
RG-58	12	J4512-ND	13.81	10.36	8.75	415-0037-012
	24	J4524-ND	15.24	11.43	9.66	415-0037-024
	36	J4536-ND	16.19	12.15	10.26	415-0037-036
RG-142	12	J5012-ND	19.05	14.29	12.07	415-0042-012
	24	J5024-ND	24.76	18.58	15.69	415-0042-024
	36	J5036-ND	30.95	23.22	19.61	415-0042-036
SMA Quick-Connect Plug to SMA Plug						
RG-316DS	12	J791-ND	41.35	31.02	26.19	415-0078-012
	24	J792-ND	42.91	32.18	27.18	415-0078-024
	36	J793-ND	45.16	33.87	28.60	415-0078-036
RG-142	12	J794-ND	47.23	35.43	29.92	415-0079-012
	24	J795-ND	53.63	40.23	33.97	415-0079-024
	36	J796-ND	58.96	44.22	37.35	415-0079-036
SMA Quick-Connect Plug to SMA Quick-Connect Plug						
RG-316	6	J779-ND	66.50	49.88	42.12	415-0065-006
	12	J780-ND	67.54	50.66	42.78	415-0065-012
	18	J781-ND	68.40	51.30	43.32	415-0065-018
	24	J782-ND	69.27	51.95	43.87	415-0065-024
	36	J783-ND	71.00	53.25	44.97	415-0065-036
	48	J784-ND	72.73	54.55	46.07	415-0065-048
RG-316DS	12	J785-ND	65.75	49.31	41.64	415-0076-012
	24	J786-ND	67.48	50.61	42.74	415-0076-024
	36	J787-ND	69.55	52.17	44.05	415-0076-036
RG-142	12	J788-ND	70.76	53.08	44.82	415-0077-012
	24	J789-ND	77.16	57.88	48.87	415-0077-024
	36	J790-ND	77.86	58.40	49.31	415-0077-036

◊ ***RoHS Compliant***

Right Angle to Right Angle

Cable Type	Dimension L (Inch)	Digi-Key Part No.	Price Each			Johnson Part No.
			1	10	25	
SMB Plug to SMB Plug						
RG-178	6	J1006-ND	19.05	14.29	12.07	415-0001-006
	12	J1012-ND	20.00	15.01	12.67	415-0001-012
	24	J1024-ND	21.91	16.43	13.88	415-0001-024
	36	J1036-ND	23.81	17.86	15.09	415-0001-036
RG-316	6	J7306-ND	17.62	13.22	11.16	415-0004-006
	12	J7312-ND	18.10	13.58	11.47	415-0004-012
	24	J7324-ND	19.52	14.65	12.37	415-0004-024
	36	J7336-ND	20.95	15.72	13.27	415-0004-036
MCX Plug to MCX Plug						
RG-178	6	J2306-ND	15.71	11.79	9.96	415-0015-006
	12	J2312-ND	17.15	12.86	10.86	415-0015-012
	24	J2324-ND	18.57	13.93	11.77	415-0015-024
	36	J2336-ND	20.95	15.72	13.27	415-0015-036
RG-316	6	J2706-ND	16.76	12.58	10.62	415-0019-006
	12	J2712-ND	17.29	12.97	10.95	415-0019-012
	24	J2724-ND	18.86	14.15	11.95	415-0019-024
	36	J2736-ND	19.91	14.93	12.61	415-0019-036
RG-316DS	6	J2906-ND	16.76	12.58	10.62	415-0021-006
	12	J2912-ND	17.81	13.36	11.29	415-0021-012
	24	J2924-ND	19.38	14.54	12.28	415-0021-024
	36	J2936-ND	20.95	15.72	13.27	415-0021-036
MMCX Plug to MMCX Plug						
RG-178	6	J736-ND	32.36	24.28	20.50	415-0068-006
	12	J737-ND	33.77	25.33	21.39	415-0068-012
	18	J738-ND	34.98	26.24	22.16	415-0068-018
	24	J739-ND	36.19	27.15	22.93	415-0068-024
RG-316	6	J740-ND	30.31	22.73	19.20	415-0069-006
	12	J741-ND	31.17	23.38	19.75	415-0069-012
	18	J742-ND	32.04	24.03	20.29	415-0069-018
	24	J743-ND	32.90	24.68	20.84	415-0069-024
SMA Plug to SMA Plug						
RG-178	6	J3506-ND	22.38	16.79	14.18	415-0027-006
	12	J3512-ND	23.33	17.51	14.78	415-0027-012
	24	J3524-ND	25.72	19.29	16.29	415-0027-024
	36	J3536-ND	27.62	20.72	17.50	415-0027-036
RG-316	6	J4006-ND	18.57	13.93	11.77	415-0032-006
	12	J4012-ND	19.05	14.29	12.07	415-0032-012
	24	J4024-ND	20.48	15.36	12.97	415-0032-024
	36	J4036-ND	21.91	16.43	13.88	415-0032-036
RG-316DS	6	J4406-ND	20.95	15.72	13.27	415-0036-006
	12	J4412-ND	21.48	16.11	13.61	415-0036-012
	24	J4424-ND	23.05	17.29	14.60	415-0036-024
	36	J4436-ND	25.14	18.86	15.93	415-0036-036
RG-58	12	J4912-ND	20.95	15.72	13.27	415-0041-012
	24	J4924-ND	21.91	16.43	13.88	415-0041-024
	36	J4936-ND	22.86	17.15	14.48	415-0041-036

Straight to Right Angle

Cable Type	Dimension L (Inch)	Digi-Key Part No.	Price Each			Johnson Part No.
			1	10	25	
SMB Plug to SMB Plug						
RG-316	6	J1106-ND	17.15	12.86	10.86	415-0002-006
	12	J1112-ND	18.10	13.58	11.47	415-0002-012
	24	J1124-ND	19.05	14.29	12.07	415-0002-024
	36	J1136-ND	20.48	15.36	12.97	415-0002-036
RG-178	6	J1506-ND	20.95	15.72	13.27	415-0007-006
	12	J1512-ND	21.91	16.43	13.88	415-0007-012
	24	J1524-ND	24.29	18.22	15.39	415-0007-024
	36	J1536-ND	26.19	19.65	16.59	415-0007-036
MCX Plug to MCX Plug						
RG-316	6	J2506-ND	15.71	11.79	9.96	415-0017-006
	12	J2512-ND	16.24	12.18	10.29	415-0017-012
	24	J2524-ND	17.29	12.97	10.95	415-0017-024
	36	J2536-ND	18.86	14.15	11.95	415-0017-036
SMA Plug to SMA Plug						
RG-178	6	J3406-ND	20.28	15.22	12.85	415-0026-006
	12	J3412-ND	21.17	15.89	13.42	415-0026-012
	24	J3424-ND	23.14	17.36	14.66	415-0026-024
	36	J3436-ND	25.61	19.21	16.22	415-0026-036
RG-316	6	J3806-ND	16.67	12.51	10.56	415-0030-006
	12	J3812-ND	17.15	12.86	10.86	415-0030-012
	24	J3824-ND	18.03	13.53	11.42	415-0030-024
	36	J3836-ND	19.91	14.93	12.61	415-0030-036
RG-316DS	6	J4206-ND	16.67	12.51	10.56	415-0034-006
	12	J4212-ND	17.62	13.22	11.16	415-0034-012
	24	J4224-ND	19.05	14.29	12.07	415-0034-024
	36	J4236-ND	20.48	15.36	12.97	415-0034-036
RG-142	12	J5212-ND	23.33	17.51	14.78	415-0044-012
	24	J5224-ND	29.53	22.15	18.70	415-0044-024
	36	J5236-ND	35.72	26.79	22.62	415-0044-036
SMA Bulkhead Jack to MMCX Plug						
RG-178	6	J754-ND	30.62	22.97	19.40	415-0072-006
	12	J755-ND	32.01	24.01	20.28	415-0072-012
	18	J756-ND	33.22	24.92	21.04	415-0072-018
	24	J757-ND	34.43	25.83	21.81	415-0072-024
	36	J758-ND	37.72	28.29	23.89	415-0072-036
RG-316	6	J759-ND	27.94	20.96	17.70	415-0073-006
	12	J760-ND	28.72	21.54	18.19	415-0073-012
	18	J761-ND	29.76	22.32	18.85	415-0073-018
	24	J762-ND	30.62	22.97	19.40	415-0073-024
	36	J763-ND	32.87	24.66	20.82	415-0073-036
SMA Bulkhead Jack to SMA Plug						
RG-316	6	J764-ND	25.78	19.34	16.33	415-0074-006
	12	J765-ND	26.64	19.99	16.88	415-0074-012
	24	J766-ND	28.37	21.29	17.98	415-0074-024
	36	J767-ND	30.80	23.10	19.51	415-0074-036
	48	J768-ND	32.53	24.40	20.60	415-0074-048
RG-316DS	6	J769-ND	26.41	19.81	16.73	415-0064-006
	12	J7212-ND	27.13	20.35	17.19	415-0064-012
	24	J7224-ND	28.78	21.59	18.23	415-0064-024
	36	J7236-ND	31.01	23.26	19.64	415-0064-036
	48	J773-ND	32.28	24.22	20.45	415-0064-048
RG-142	6	J774-ND	30.80	23.10	19.51	415-0075-006
	12	J775-ND	34.08	25.57	21.59	415-0075-012
	24	J776-ND	40.66	30.50	25.76	415-0075-024
	36	J777-ND	47.75	35.82	30.25	415-0075-036
	48	J778-ND	54.15	40.62	34.30	415-0075-048

EMERSON
Network Power

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RF Connectors and Adapters

Fig. 1
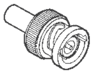

Fig. 2
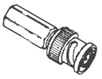

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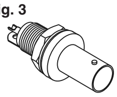

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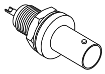

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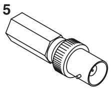

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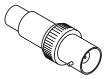

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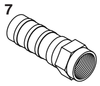

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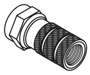

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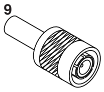

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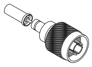

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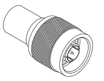

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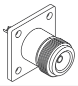

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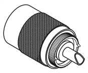

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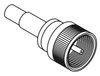

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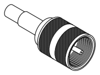

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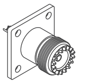

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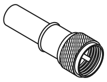

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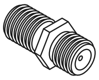

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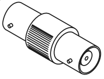

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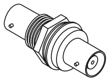

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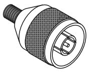

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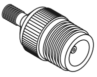

Fig. 23
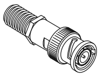

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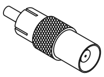

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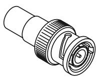

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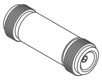

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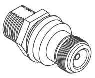

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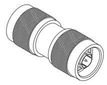

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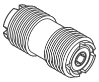

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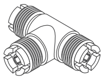

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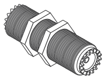

Fig.	Type	Description	Cable Group RG/U	Digi-Key Part No.	Price Each 1	25	50	Johnson Part No.
Connectors								
True 75 Ohm BNC								
1	Plug	Crimp-Type, Solder or Crimp Contact, 75Ω	RG-59, 140, 302, Belden 9209A, 8279, 8241, 8263	367-1067-ND	3.80	3.46	2.77	CPMC-68-2
			RG-6, Belden 8215	367-1069-ND	4.40	4.01	3.21	CPMC-68-5
			RG-179, 187, Belden 1520A	367-1072-ND	4.96	4.51	3.61	CPMC-68-20
BNC								
1	Plug	Crimp-Type Push-On, 50Ω	RG-58	367-1001-ND	1.76	1.60	1.28	CP-88-1
			RG-59, 62	367-1002-ND	1.76	1.60	1.28	CP-88-2
			RG-6	367-1004-ND	2.05	1.87	1.50	CP-88-5
		Crimp-Type, Solder or Crimp Contact, 50Ω	RG-179, 187	367-1043-ND	2.31	2.10	1.68	CPM-88-20
			RG-174, 188,316	367-1044-ND	2.31	2.10	1.68	CPM-88-19
			RG-58, 141	367-1047-ND	1.66	1.52	1.21	CPMC-88-1
			RG-59, 62	367-1048-ND	1.66	1.52	1.21	CPMC-88-2
			RG-59, 62, TFE	367-1050-ND	1.70	1.55	1.24	CPMC-88-10
			RG-142, 223, 400, 55	367-1052-ND	1.80	1.64	1.31	CPMC-88-13
			Belden 8218	367-1053-ND	2.02	1.84	1.47	CPMC-88-18
		Crimp-Type, Solder or Crimp Contact, 75Ω	RG-59, 62	367-1045-ND	1.85	1.68	1.35	CPMC-78-2
			Belden 8218, 1855A	367-1046-ND	2.16	1.96	1.57	CPMC-78-18
2	Plug	Twist-On, Field Installable, 50Ω	RG-58	367-1030-ND	2.05	1.87	1.50	CPFI-UG88-1
			RG-59, 62	367-1031-ND	2.14	1.95	1.56	CPFI-UG88-2
			RG-6	367-1034-ND	2.11	1.93	1.54	CPFI-UG88-5
3	Jack	Front-Mnt. Bulkhead Jack with Solder Tab, 50Ω	—	367-1019-ND	1.28	1.17	.94	CP-1094-AST
4	Jack	Front-Mnt. Bulkhead Jack without Solder Lug, 50Ω	—	367-1020-ND	1.23	1.12	.90	CP-1094-U
5	Jack	Straight Twist-On Jack, 50 Ohm	RG-59, 62	367-1036-ND	2.43	2.21	1.77	CPFI-UG89-2
6	Jack	Crimp-Type Jack, Push-On Body, 50Ω	RG-59, 62	367-1007-ND	1.80	1.64	1.31	CP-89-2
Type F								
7	Plug	Crimp-Type Plug	RG-6	367-1022-ND	.34	.31	.25	CPF-56-ALM
			RG-6 Quad Shield	367-1023-ND	.40	.36	.29	CPF-56-ALS
			RG-59	367-1025-ND	.33	.30	.24	CPF-59-ALM
8	Plug	Twist-On Plug (no Crimp)	RG-6	367-1027-ND	.34	.31	.25	CPFI-56
TNC								
9	Plug	Crimp-Type Plug Solder or Crimp	RG-58, 141	367-1056-ND	1.87	1.70	1.36	CPMC-TNC-1
			RG-142, 223, 400, 55	367-1057-ND	2.12	1.93	1.54	CPMC-TNC-13
			RG-8X (MINI 8)	367-1058-ND	2.09	1.91	1.53	CPMC-TNC-17
Type N								
10	Plug	Crimp-Type Plug	RG-58	367-1059-ND	3.97	3.61	2.89	CPN-1
			RG-142, TFE	367-1060-ND	4.10	3.73	2.99	CPN-142T
			RG-8, 213	367-1061-ND	4.16	3.79	3.03	CPN-8
			RG-142, 223, 400	367-1085-ND	5.62	5.12	4.09	CPN-68-13
			RG-8, 213	367-1062-ND	4.10	3.73	2.99	CPN-8/110
			Proflex RG-450	367-1063-ND	3.98	3.63	2.90	CPN-16
			RG-8X (MINI 8)	367-1086-ND	4.49	4.08	3.27	CPN-17
11	Plug	Crimp-Type Plug	RG-8, 213	367-1079-ND	6.53	5.94	4.75	CPN-68-8
			RG-58, Beldon 9907	367-1080-ND	6.09	5.54	4.43	CPN-68-1
12	Jack	Flange Mount Jack	—	367-1081-ND	6.73	6.12	4.90	CP-AD801
UHF								
13	Plug	Solder-Type, Standard	RG-8, 213	367-1010-ND	1.73	1.58	1.26	CP-AD-250
14	Plug	Crimp-Type, Crimp Contact	RG-58	367-1037-ND	1.50	1.37	1.09	CPL-259-1
			RG-59, 62	367-1038-ND	1.53	1.39	1.12	CPL-259-2
			RG-8	367-1039-ND	1.80	1.64	1.31	CPL-259-8
			RG-59, TFE	367-1040-ND	1.55	1.41	1.13	CPL-259-10
			RG-8X (MINI 8)	367-1041-ND	1.58	1.44	1.15	CPL-259-17
15	Plug	Crimp-Type, Crimp Contact, Double Nut	RG-58	367-1042-ND	2.67	2.43	1.95	CPL-259-18
16	Jack	4-Hole Flange Mount Jack	—	367-1082-ND	1.37	1.25	1.00	CP-AD206
Mini-UHF								
17	Plug	Crimp-Type, Solder or Crimp Contact	RG-58	367-1064-ND	1.56	1.42	1.14	MINI-UHF-1
			RG-8X (MINI 8)	367-1066-ND	2.04	1.85	1.48	MINI-UHF-17

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Johnson Part No.
Adapters						
F In-Series						
18	Jack to Jack Adapter, 3/4" In-line Splice	367-1026-ND	.30	.28	.22	CPF-81
BNC						
19	Jack to Jack Adapter	367-1015-ND	1.47	1.34	1.08	CP-AD-555
20	Bulkhead Jack to Jack Adapter with Lock Washer	367-1016-ND	2.18	1.98	1.59	CP-AD-556M
Between Series						
21	N Plug to SMA Jack	367-1017-ND	7.43	6.76	5.41	CP-AD-810
22	N Jack to SMA Jack	367-1018-ND	7.54	6.86	5.49	CP-AD-819
23	BNC Plug to F Jack	367-1014-ND	2.08	1.89	1.51	CP-AD-516
24	BNC Jack to RCA Plug	367-1012-ND	1.41	1.29	1.03	CP-AD-501
25	BNC 50 Ohm Plug to RCA Jack	367-1013-ND	1.22	1.11	.89	CP-AD-515
Type N						
26	Jack to Jack Adapter	367-1087-ND	4.61	4.20	3.36	CP-AD850
27	Jack to Bulkhead Jack Adapter	367-1088-ND	6.28	5.71	4.57	CP-AD851
28	Plug to Plug Adapter	367-1089-ND	6.03	5.48	4.39	CP-AD800
UHF						
29	Jack to Jack Adapter	367-1083-ND	1.60	1.46	1.17	CP-AD204
30	Jack to Jack to Jack T Adapter	367-1084-ND	4.87	4.43	3.55	CP-AD210
31	Bulkhead Jack to Bulkhead Jack Adapter	367-1090-ND	4.38	3.99	3.19	CP-AD207

CUI INC

F Connectors

Fig. 1
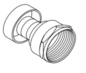

Fig. 2
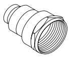

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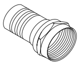

Fig. 4
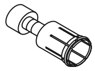

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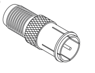

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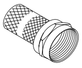

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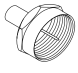

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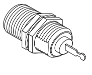

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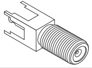

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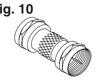

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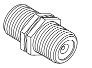

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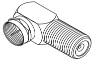

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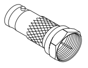

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100	1,000
1	Separated Crimp Ring, for RG-59 Cable	CP-0010-ND	.33	2.86	22.00	165.00
	Separated Crimp Ring, for RG-58 Cable	CP-0030-ND	.36	3.12	24.00	180.00
	Separated Crimp Ring, for RG-6 Cable	CP-0060-ND	.37	3.20	24.60	185.00
2	Built-On Crimp Ring, for RG-59 Cable	CP-0110-ND	.51	4.39	33.80	254.00
	Built-On Crimp Ring, for RG-6 Cable	CP-0160-ND	.51	4.39	33.80	254.00
3	Long Type Built-On Crimp Ring, for RG-59 Cable	CP-0210-ND	.48	4.19	32.20	242.00
	Long Type Built-On Crimp Ring, for RG-6 Cable	CP-0260-ND	.48	4.19	32.20	242.00
4	Push-On, Crimp Type, for RG-59 Cable	CP-0310-ND	.71	6.11	47.00	353.00
	Push-On, Crimp Type, for RG-58 Cable	CP-0330-ND	.71	6.11	47.00	353.00
5	Adapter, Screw-On/Push-On	CP-2000-ND	1.14	9.88	76.00	570.00
6	Twist-On Type, for RG-59 Cable	CP-0410-ND	.44	3.80	29.20	219.00
7	Male Terminator, with Built-In 75 Ohm Resistor	CP-0610-ND	.41	3.59	27.60	207.00
8	Female Bulkhead Receptacle, with Washer and Nut	CP-1010-ND	.53	4.55	35.00	263.00
9	PCB Type, Full Length 26mm	CP-1210-ND	.77	6.66	51.20	384.00
10	Adapter, Universal Male F to F Coupler	CP-2010-ND	1.24	10.74	82.60	620.00
11	Adapter, Female F to F Coupler, with Washer and Nut	CP-2110-ND	.48	4.19	32.20	242.00
12	Adapter, Right Angle F Male to F Female	CP-2510-ND	1.62	14.04	108.00	810.00
13	Adapter, F Male to BNC Female	CP-0130-ND	2.19	18.98	146.00	1095.00

HIROSE ELECTRIC CO.,LTD. Hirose - *A Leading Company of Wireless LAN Connectors*

U.FL SMD Ultra-Miniature Coaxial Connectors and Assemblies

U.FL Series: Industry Standard for Bluetooth and Wireless LAN (World's Smallest and Lightest Coaxial Connectors, meeting frequencies up to 6GHz)

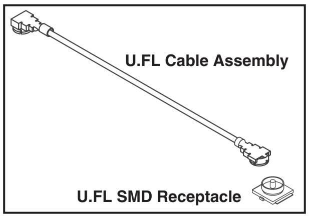

FEATURES:

- Extremely Small Board Occupation resulting in an area of just 7.7mm^2
- Mating Height from the printed circuit board when it mates a receptacle with a (right angle) plug is 2.5mm maximum
- These are the world's lightest coaxial connector meeting frequencies up to 6GHz. Receptacle: 15.7mg
- To meet the frequency requirements of a wide variety of miniature equipment, these connectors offer high frequency performance from DC to 6GHz
- The embossed tape packaging of the receptacles permits automatic mounting
- The extraction tool permits simple removal of the connectors
- Mating checks are made easy with the lock sensation it permits a check of sure mating

APPLICATIONS:

- Mobile phones
- Wireless communications equipment
- Electronic measuring instruments
- GPS
- Wireless LAN
- Bluetooth

SPECIFICATIONS:

- Nominal characteristic impedance: 50Ω
- Rated voltage: 60VAC (rms)
- Rated frequency: DC to 6GHz
- Operating Temperature Range: -40°C ~ 90°C
- Operating humidity: 90% maximum
- Contact resistance: Center: 20mΩ maximum Outside: 10mΩ maximum
- Insulation Resistance: 500MΩ minimum
- V.S.W.R.: 1.3 maximum

MATERIAL AND FINISH:

- Shell: Phosphor bronze, silver plating
- Center contact (male): Brass, gold plating
- Center contact (female): Phosphor bronze, gold plating
- Insulator: Plug: PBT, black, UL94V-0; Receptacle: LCP, beige, UL94V-0

Mating Height

U.FL: Industry Standard for
Bluetooth and Wireless LAN
(Frequency: up to 6GHz;
Mating height: 2.4mm)

W.FL: the world's smallest!
(Frequency: up to 3GHz;
Mating height: 1.55mm)

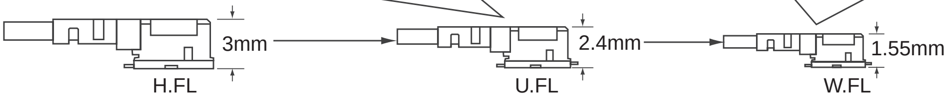

Required Board Space for Receptacle

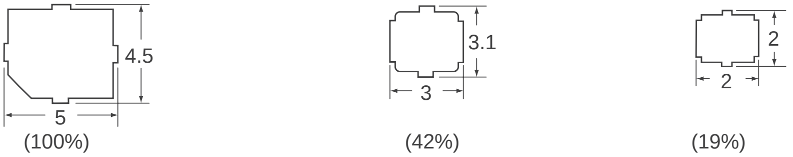

Fig. 1

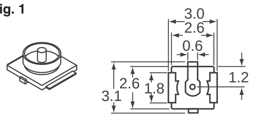

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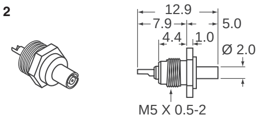

Fig. 3

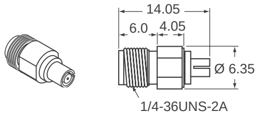

Fig. 4

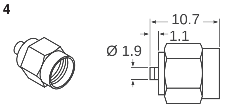

Fig. 5

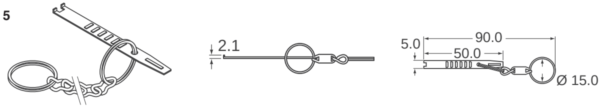

Fig. 6

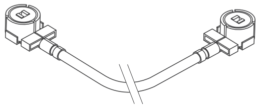

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
1	Receptacle Coaxial SMD	H9161-ND	1.39	1.14	.92	.83	U.FL-R-SMT(01)
		H9161TR-ND		1047.50/2,500	2055.00/5,000		U.FL-R-SMT(10)
2	Inspection Receptacle	H9160-ND	17.25	16.68	15.53	14.95	U.FL-R-1
3	Adapter Side U.FL Plug/SMA Side Jack	H9158-ND	20.85	20.16	18.77	18.07	HRMJ-U.FLP
4	Adapter Side U.FL Jack/SMA Side Plug	H9157-ND	17.10	16.53	15.39	14.82	HRMP-U.FLJ
5	Removal Tool	H9159-ND	19.80	19.14	17.82	17.16	U.FL-LP-N-2
5	Removal Tool for Low Profile	HR5017-ND	19.80	19.14	17.82	17.16	U.FL-LP(V)-N-2

Fig.	Cable Type	Cable Diameter (mm)	Cable Length (mm)	Mating Height (mm)	Frequency (GHz)	Shield	Weight (mg)	Digi-Key Part No.	Price Each 1	10	50	100	Hirose Part No.
UFL/UFL Cable Assemblies													
6	04	0.81	100	2.4	3	Single	53.7	HR5008-ND	7.08	5.86	4.88	4.40	U.FL-2LP-04N1-A-(100)
			200					H9162-ND	6.66	5.64	4.74	4.23	U.FL-2LP-04N1-A-(200)
			500					H9163-ND	7.51	6.36	5.35	4.77	U.FL-2LP-04N1-A-(500)
			1000					HR5007-ND	9.02	7.64	6.42	5.73	U.FL-2LP-04N1-A-(1000)
	068	1.13	100	2.4	6	Single	53.7	HR5012-ND	6.45	5.46	4.59	4.10	U.FL-2LP-068N1-A-(100)
			200					H9166-ND	6.84	5.79	4.87	4.34	U.FL-2LP-068N1-A(200)
			500					H9167-ND	8.03	6.80	5.72	5.10	U.FL-2LP-068N1-A-(500)
			1000					HR5011-ND	8.86	7.70	6.93	6.16	U.FL-2LP-068N1-A-(1000)
	066	1.32	100	2.4	6	Double	59.1	HR5010-ND	7.19	5.96	4.96	4.47	U.FL-2LP-066J1-A-(100)
			200					H9164-ND	6.86	5.81	4.89	4.36	U.FL-2LP-066J1-A-(200)
			500					H9165-ND	8.11	6.87	5.78	5.15	U.FL-2LP-066J1-A-(500)
			1000					HR5009-ND	9.02	7.84	7.06	6.28	U.FL-2LP-066J1-A-(1000)
	088	1.37	100	2.4	6	Single	71.7	H5022-ND	6.37	5.39	4.54	4.05	U.FL-2LP-088K1T-A-(100)
			200					H5023-ND	6.71	5.68	4.78	4.26	U.FL-2LP-088K1T-A-(200)
			500					H5024-ND	7.75	6.56	5.52	4.92	U.FL-2LP-088K1T-A-(500)
			1000					H5021-ND	8.37	7.28	6.56	5.83	U.FL-2LP-088K1T-A-(1000)
Low Profile UFL/UFL Cable Assemblies													
6	04	0.81	100	2.4	3	Single	34.8	HR5014-ND	7.08	5.86	4.88	4.40	U.FL-2LP(V)-04N1-A-(100)
			200					HR5015-ND	6.66	5.64	4.74	4.23	U.FL-2LP(V)-04N1-A-(200)
			500					HR5016-ND	7.51	6.36	5.35	4.77	U.FL-2LP(V)-04N1-A-(500)
			1000					HR5013-ND	8.74	7.60	6.84	6.08	U.FL-2LP(V)-04N1-A-(1000)

W.FL Series Connectors

World's Lowest Profile, Ultra Small Coaxial Connectors (1.55mm Stacking Height)

Fig. 1

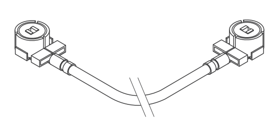

Fig. 2

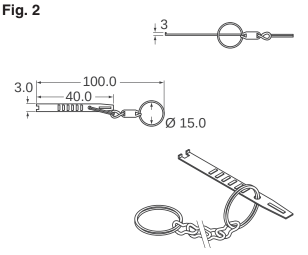

Fig. 3

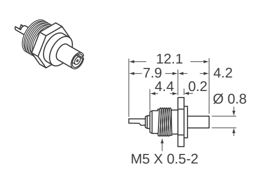

Fig. 4

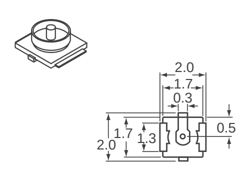

Applications:
• Mobile phones • Wireless PDA's • Wireless LAN • Bluetooth communication protocol • Wireless communication equipment • GPS

Performance	Standard	Conditions
Characteristic Impedance	50Ω	—
Insulation Resistance	500MΩ or greater	100VDC
Withstanding Voltage	200VAC	1 Minute
Contact Resistance	Inner 20MΩ, Outer 10MΩ or less	100mA or less
V.S.W.R.	V.S.W.R. 1.3 or less	Up to 3GHz

Part	Material	Finish
Outer Conductor	Phosphor Bronze	Silver Plating
Inner Conductor	Phosphor Bronze, Brass	Gold Plating
Insulator	PBT, LCP	—

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Hirose Part No.
1	Ultra Cable Assembly, 100mm	H9168-ND	6.96	5.76	4.80	W.FL-2LP-04N1-A-(100)
	Ultra Cable Assembly, 500mm	H9170-ND	7.33	6.21	5.22	W.FL-2LP-04N1-A-(500)
	Ultra Cable Assembly, 1000mm	H9169-ND	8.68	7.35	6.18	W.FL-2LP-04N1-A-(1000)
2	Extraction Tool for W.FL Series	H9171-ND	83.72	—	—	W.FL-LP-N
3	Inspection Receptacle	H9172-ND	24.00	23.20	21.60	W.FL-R-1
4	Ultra Low Coax SMD Receptacle	H9173CT-ND	1.60	1.31	1.06	W.FL-R-SMT(10)
	Ultra Low Coax SMD Receptacle	H9173TR-ND	1094.60/2,000			W.FL-R-SMT(10)

Miniature RF Connectors

Fig. 1

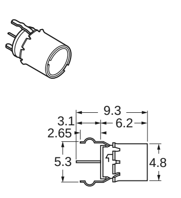

Fig. 2

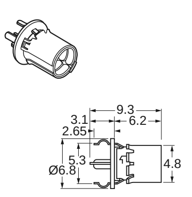

Fig. 3

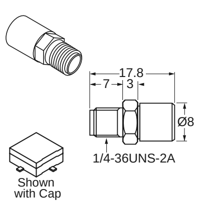

Fig. 4

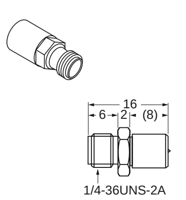

Fig. 5

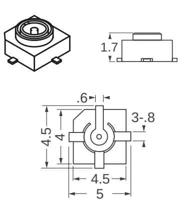

Fig. 6

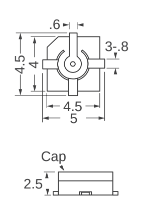

Fig. 7

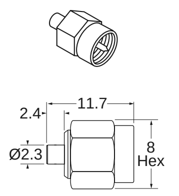

Fig. 8

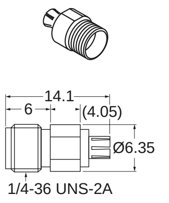

Fig. 9

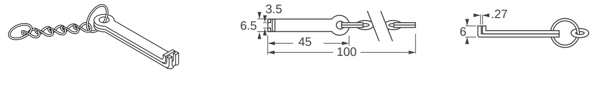

Fig. 10

Double End

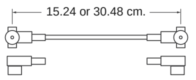

Fig. 11

Single End

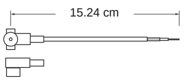

FL (Finger-Lock) Series Coaxial Connectors:

Low-profile microminiature high-frequency connectors. The FL Series connectors are low-profile microminiature coaxial connectors intended for high-density packaging of components on printed circuit boards. The FL Series is ideal for high-density circuit board wiring in signal transmission applications at high frequencies up to 1GHz.
Features: High-level matching: Maximum V.S.W.R is only 1.2 at frequencies up to 1GHz.
Applications: Typical applications include cellular telephones, radio communications equipment, electronic measuring instruments, CATV, control units, etc.
Material and Finish: • Shell: Brass or phosphor bronze, silver plating • Center contact (male): Brass, gold plating • Center contact (female): Phosphor bronze, gold plating • Insulation: Polybutylene terephthalate (PBT), black.
Performance Characteristics: • Characteristic impedance: 50Ω • Insulation resistance: 1000MΩ or more (at 250VDC) • Contact resistance: 10mΩ or less for both center and outer conductors (at 1 ADC) • Withstanding voltage: 250VAC (rms) for one minute • Coupling/removal force: 300 gf or more • Life of contacts: 50 times of use

S.FL2 Series Coaxial Connectors:

S.FL2 (Super FL Type 2 Coaxial Connector) Series is a surface mount, low profile, miniature coaxial connector intended for high density packaging. Compared to Hirose's FL Series connectors, the S.FL2 Series offers a 50% reduced profile when assembled, achieving increased density of internal wiring for high frequency transmission applications.
Features: Highly flexible, offers high frequency performance below V.S.W.R 1.2 over 0-2000MHz range.

H.FL Series Coaxial Connectors:

The H.FL connectors have a lower profile, with a mounted height of approximately 30% that of our S.FL2 connectors. They occupy 20% less board space, allowing higher density internal wiring.
Features: • High frequency response of V.S.W.R 1.3 or less from D.C. to 3000MHz.
Material and Treatment: • Shell: Phosphor bronze, silver plating • Insulator: PBT plastic (plug side), black; Liquid crystal polymer (receptacle side), black • Male center contact: Bronze, gold plating • Female center contact: Phosphor bronze, gold plating.
Performance Characteristics: • Characteristic impedance: 50Ω and 75Ω • Insulation resistance: 500MΩ or greater at DC 250V • Contact resistance: 20mΩ (center), 10mΩ (exterior) at DC 10mA • Dielectric strength: AC 300V (r.m.s), 1 minute • Contact service life: 50 times • Voltage standing wave ratio: 1.3 or less, DC to 3000MHz (target value)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
	FL Series					
1	Receptacle PC MT	H9142-ND	3.15	2.62	1.94	FL-R-PC(1)
2	Receptacle with Washer	H9143-ND	4.50	3.72	2.79	FL-R-PC(3)
3	Adapter Plug/SMA Plug	H9144-ND	57.96	55.07	51.75	HRMJ-FLJ
4	Adapter Receptacle/SMA Plug	H9145-ND	37.66	35.78	33.63	HRMJ-FLP-1
9	Removal Tool (FL Series)	H9146-ND	24.62	—	—	FL-LP-N
10	6" (15.24cm) FL/FL Cable Assembly	229-1000-ND	12.03	11.28	10.34	4189-06
10	12" (30.48cm) FL/FL Cable Assembly	229-1001-ND	12.54	11.76	10.78	4189-12
10	12" (30.48cm) FL/SMA Cable Assembly	229-1002-ND	23.36	21.90	20.08	4192-12
	S.FL2 Series					
10	6" (15.24cm) S.FL2/S.FL2 Cable Assembly	229-1008-ND	11.36	10.65	9.77	2189-06
10	12" (30.48cm) S.FL2/S.FL2 Cable Assembly	229-1009-ND	12.70	11.91	10.92	2189-12
10	12" (30.48cm) S.FL2/SMA Cable Assembly	229-1010-ND	32.32	30.30	27.78	2192-12
11	6" (15.24cm) S.FL2 Single End Cable Assembly	229-1011-ND	8.48	7.95	7.29	2191-6
	H.FL Series					
5	Receptacle Coaxial SMT	H9147-ND	1.64	1.37	1.01	H.FL-R-SMT(01)
6	Receptacle Coaxial with Cap SMT	H9148CT-ND	1.72	1.43	1.06	H.FL-R-SMT(C)(10)
6	Receptacle Coaxial with Cap SMT	H9148TR-ND	1682.50/2,500			H.FL-R-SMT(C)(10)
7	Adapter Jack/SMA Plug	H9150-ND	21.90	21.17	18.98	HRMP-H.FLJ
8	Adapter Plug/SMA Jack	H9149-ND	25.35	24.51	21.97	HRMJ-H.FLP-3
9	Removal Tool (H.FL Series)	H9151-ND	45.64	—	—	H.FL-LP-N
10	100mm, 75 Ohms H.FL/H.FL Cable Assembly	H5018-ND	8.95	7.78	6.23	H.FL75-2LP-084H-A-100
10	500mm, 75 Ohms H.FL/H.FL Cable Assembly	H5020-ND	11.36	9.88	7.91	H.FL75-2LP-084H-A-500
10	1000mm, 75 Ohms H.FL/H.FL Cable Assembly	H5019-ND	12.54	11.60	9.72	H.FL75-2LP-084H-A-1000
10	6" (15.24cm) H.FL/H.FL Cable Assembly	229-1004-ND	10.62	9.96	9.13	1189-06
10	12" (30.48cm) H.FL/H.FL Cable Assembly	229-1005-ND	11.97	11.22	10.29	1189-12
10	12" (30.48cm) H.FL/SMA Cable Assembly	229-1006-ND	31.01	29.07	26.65	1192-12
11	6" (15.24cm) H.FL Single End Cable Assembly	229-1007-ND	7.87	7.38	6.77	1191-06

HIROSE ELECTRIC CO.,LTD.

Coaxial Switching Connector

MS-145 Series

Fig. 1

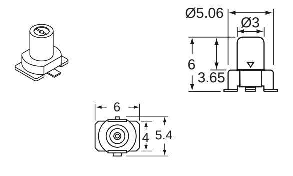

Fig. 2

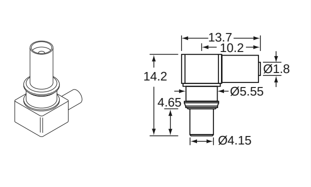

Fig. 3

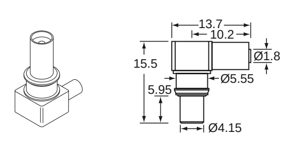

Fig. 4

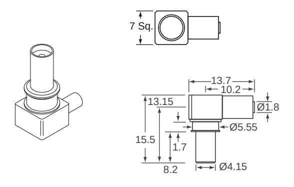

Fig. 5

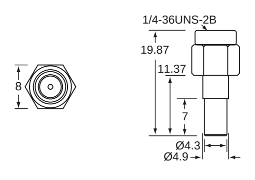

Fig. 6

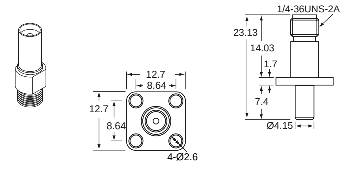

Fig. 7

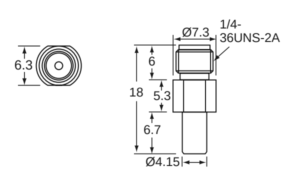

Plug Applications

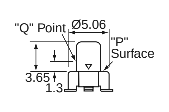

Designed as interface coaxial switches, and other applications requiring redirecting of signals when mating with corresponding plugs. The mating action redirects the signals from the receptacle side to the plug side.

Features:

- **Frequency Range:** From DC to 2.5GHz and with GSM, PCS, cdma-One, W-CDMA, etc.
- **Low Profile:** Low protrusion of only 6mm above the mounting surface (receptacle).
- **Durability:** High durability (mating/unmating) of 10,000 cycles. Self alignment of mating parts. Inducement to floating is +/-0.5mm.
- Engages by pushing up to the 5.06mm diameter shoulder (P surface) of the MS-145 (MS-145-C(LP)-1 engages up to a position (Q point) of 1.3mm from the 5.06mm diameter shoulder of the MS-145).

Applications:

- Mobile phone antenna switching
- Checks of microwave boards, etc.

Fig.	Description	Effect. Engage. Length (mm)	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
1	Interface Coaxial Switch Receptacle	—	H2803CT-ND	2.26	1.74	1.39	MS-145(06)
1	Interface Coaxial Switch Receptacle	—	H2803TR-ND	924.00/1,000			MS-145(06)
2	Plug	0.82	H2804-ND*	15.81	14.47	13.02	MS-145-C(LP)-1
3	Plug	1.32	H2805-ND*	15.90	14.84	13.78	MS-145-C(LP)-A
4	Plug	1.32	H2806-ND*	16.27	14.89	13.40	MS-145-C(LP)-MI
5	SMA Adaptor to Male	1.32	H2807-ND	18.15	16.94	15.73	MS-145-HRMP-A
6	SMA Adaptor to Female, Panel Mount	0.82	H2808-ND	25.35	23.66	21.97	MS-145-HRMJ
7	SMA Adaptor to Female, Straight	1.32	H2809-ND	18.15	16.94	15.73	MS-145-HRMJ-A-D

* Applicable cable for plugs: 1.5D-HQEW or 1.5D-QEW (manufactured by Fujikura Ltd.).

Coaxial Switching Connector MS-147 Series

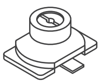

The switching function is accomplished by mating with the corresponding plug. The transmission is redirected from normal direction to the plug assembly. The surface mounted receptacle protrudes above the board 3.9mm. The MS147 has an insertion loss of 0.15dB.

Characteristics: Impedance of 50Ω, isolation of 25dB minimum (DC-2.0GHz) and 20dB (2.0GHz to 2.5GHz). Self-aligning within 0.5mm and with a guaranteed durability of 12,000 mating/unmating cycles.

Applications: Most mobile phones and circuit testing applications.

Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
Interface Coaxial Switching Receptacle	H2800CT-ND	2.08	1.60	1.28	MS-147(06)
Interface Coaxial Switching Receptacle	H2800TR-ND	1276.50/1,500			MS-147(06)
Mating Adapter	H2801-ND	18.45	17.22	15.99	MS-147-HRMJ-1
Right Angle Plug	H2802-ND*	16.20	15.12	14.04	MS-147-C(LP)-1

* Application cable for plug: 1.5D-HQEW (manufactured by Fujikura Ltd.).

Ultra Miniature Snap-On Coaxial Connector

PC Card Type II Mountable MMCX Type

Fig. 1

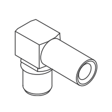

Fig. 2

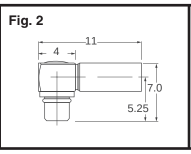

Fig. 3

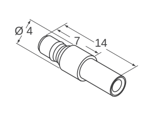

Fig. 4

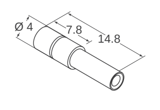

Fig. 5

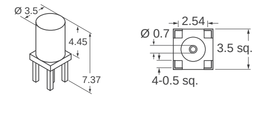

Fig. 6

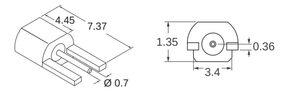

FEATURES:

Snap-on coupling mechanism makes it easy to engage and disengage. Low profile accommodates PCMCIA type II cards. The MMCX-LR-SMT is only 3.51mm when mounted on the bottom of a type II card. Designed for ultra thin cable such as RG-178B/U (ø1.8), RG-316/U (ø2.59 max.) ø1.48 single shielded cable (one of the smallest available) and CO-6F-FH-SB (ø1.48) made by Hitachi Cable Ltd. Compatible with all industry standard MMCX connectors.

SPECIFICATIONS:

• **Nominal Characteristic Impedance:** 50Ω. • **Operating Temperature Range:** -55°C ~ 85°C • **Rated Frequency:** DC-6GHz • **Insulation Resistance:** 500MΩ minimum • **Contact Resistance:** 10mΩ maximum(center), 5mΩ maximum (outer)

MATERIAL:

• **Body:** Brass with gold plating • **Male center contact:** Phosphor bronze with gold plating • **Female Center Contact**: Beryllium bronze with gold plating • **Insulator:** PTFE. **Fixing Ring:** Beryllium copper (plug) with nickel plating • **Crimp Sleeve:** Copper with gold plating • **Cover:** Brass (plug) with gold plating

Fig.	Cable Type	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
	Right Angle Plug					
1	CO-6F-FH-SB (1.48) Single Shielded	H3220-ND	10.86	10.05	8.42	MMCX-LP-FHSB
	RG-178B/U Type Coaxial Cable	H3221-ND	10.67	9.28	7.43	MMCX-LP-178B/U
2	RG-316/U Type Coaxial Cable	H3222-ND	10.10	9.35	7.83	MMCX-LP-316/U
	Straight Plug					
3	CO-6F-FH-SB (1.48) Single Shielded	H3223-ND	9.41	8.18	6.55	MMCX-P-FHSB
	RG-178B/U Type coaxial cable	H3224-ND	8.87	7.51	5.63	MMCX-P-178B/U
	Straight Jack					
4	CO-6F-FH-SB (1.48) Single Shielded	H3225-ND	9.89	8.60	6.88	MMCX-J-FHSB
	RG-178B/U Type Coaxial Cable	H3226-ND	9.36	8.14	6.52	MMCX-J-178B/U
	Receptacle					
5	Vertical, PCB Through Hole	H3227-ND	10.10	9.35	7.83	MMCX-R-PC
6	Right Angle, PCB Surface Mount	H3228-ND	10.35	9.00	7.20	MMCX-LR-SMT

KEYSTONE ELECTRONICS CORP.

Standardized Phono-plugs

Fig. 1

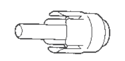

Fig. 2

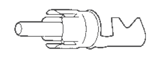

Fig. 3

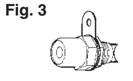

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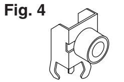

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100
1	Conventional Type	561K-ND	.66	5.80	46.80
2	Strain Relief Lug Crimps to Wire Insulation	565K-ND	.89	7.80	59.70
3	Panel Mount Jack Hex Base Type	576K-ND	1.00	8.73	74.05
4	Snap-Fit 90° PC Phono Jack	901K-ND	1.21	11.24	97.55

Audio Connectors and Couplers

Fig. 1

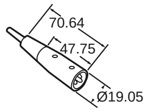

Fig. 2

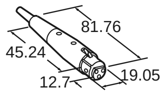

Fig. 3

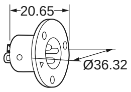

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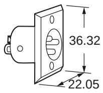

Fig. 5

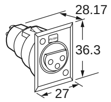

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	Mfg. Part No.
1	Plug Male Straight 3 pos Satin Nickel Finish	SC1003-ND	5.24	3.93	3.60	A3M
	Plug Male Straight 3 pos Black w/Silver Contacts	SC1004-ND†	5.24	3.93	3.60	A3MB
	Plug Male Straight 4 pos Satin Nickel Finish	SC1014-ND	6.00	4.50	4.13	A4M
	Plug Male Straight 5 pos Satin Nickel Finish	SC1022-ND	10.60	7.95	7.29	A5M
2	Plug Female Straight 3 pos Satin Nickel Finish	SC1001-ND	5.88	4.41	4.04	A3F
	Plug Female Straight 3 pos Black w/Silver Contacts	SC1002-ND†	5.88	4.41	4.04	A3FB
	Plug Female Straight 4 pos Satin Nickel Finish	SC1013-ND	8.20	6.15	5.64	A4F
	Plug Female Straight 5 pos Satin Nickel Finish	SC1021-ND	13.36	10.02	9.19	A5F
3	Receptacle Male Panel Mount 3 pos Satin Nickel Finish	SC1008-ND	6.64	4.98	4.57	C3M
4	Receptacle Male Narrow Panel Mount 3 pos Satin Nickel Finish	SC1010-ND	4.92	3.69	3.38	D3M
4	Receptacle Male Narrow Panel Mount 4 pos Satin Nickel Finish	SC1020-ND	5.84	4.38	4.02	D4M
4	Receptacle Male Narrow Panel Mount 5 pos Satin Nickel Finish	SC1028-ND	10.36	7.77	7.12	D5M
5	Receptacle Female Narrow Panel Mount 3 pos Satin Nickel Finish	SC1009-ND	6.64	4.98	4.57	D3F
5	Receptacle Female Narrow Panel Mount 4 pos Satin Nickel Finish	SC1019-ND	9.40	7.05	6.46	D4F
5	Receptacle Female Narrow Panel Mount 5 pos Satin Nickel Finish	SC1027-ND	15.20	11.40	10.45	D5F

† "Black Velvet" (Electrically Conductive Chrome Plate)

1/4” (6.35mm) Plugs, Jacks and Audio Adapters

Fig. 1

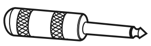

Fig. 2

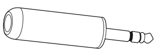

Fig. 3

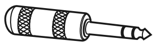

Dimensions for Figures 1-3

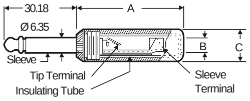

Fig. 4

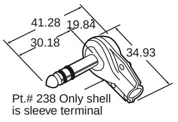

Fig. 5

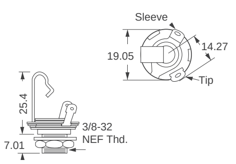

Fig. 6

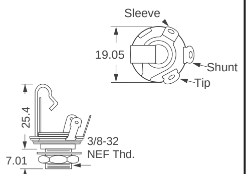

Schematics for Figures 5-10

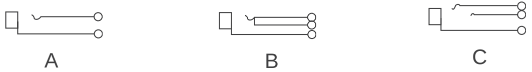

Fig. 7

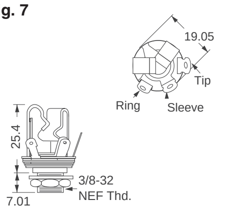

Fig. 8

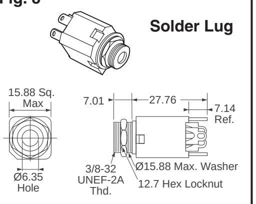

Fig. 9

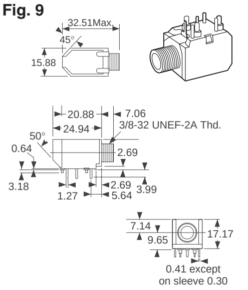

Fig. 10

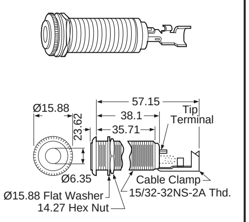

Fig. 11

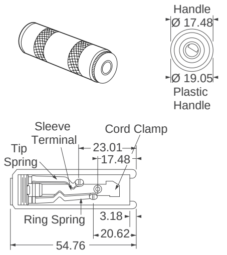

Fig. 12

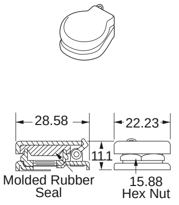

Fig.	Description	Mates With	Dimensions (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	25	Switchcraft Part No.
	1/4” (6.35mm) “Littel Plugs” Two Conductor Phone Plugs									
1	Shielded with Solder Lug and Cable Clamp	11	42.88	7.54	12.70	SC1075-ND	4.40	33.00	75.75	280
	1/4” (6.35mm) “Littel Plugs” Three Conductor Phone Plugs									
2	Black with Solder Lug and Cable Clamp	12B	42.88	7.54	12.70	SC1081-ND	5.16	38.70	88.75	267
3	Shielded with Solder Lug and Cable Clamp	12B	42.88	7.54	12.70	SC1084-ND	5.92	44.40	101.75	297
	1/4” (6.35mm) Right Angle Flat, Two Conductor Type Phone Plugs									
4	Shielded with Solder Lugs	11	—	—	—	SC1068-ND	5.04	37.80	86.75	228
	1/4” (6.35mm) Right Angle Flat, Three Conductor Type Phone Plugs									
4	Shielded with Solder Lugs	12B	—	—	—	SC1069-ND	6.52	48.90	112.00	238

Fig.	Schematic	Description	Digi-Key Part No.	Pricing 1	10	25	Switchcraft Part No.
		1/4” (6.35mm) “Littel Jax,” Two Conductor Phone Jacks					
5	A	Phone Jack 1/4” (6.35mm), Open Circuit	SC1085-ND	2.24	16.80	38.50	11
6	B	Phone Jack 1/4” (6.35mm), Tip Shunt	SC1089-ND	2.24	16.80	38.50	12A
		1/4” (6.35mm) “Littel Jax,” Three Conductor Phone Jacks					
7	C	Phone Jack Double Open Circuit	SC1094-ND	2.32	17.40	40.00	12B
		1/4” (6.35mm) Two Conductor Jacks with Solder Lug Terminals					
8	A	Phone Jack Enclosed Insulated Bushing	SC1103-ND	2.56	19.20	44.00	N111
	B	Phone Jack Enclosed Single Closed Circuit	SC1104-ND	2.24	16.80	38.50	112A
		1/4” (6.35mm) Two Conductor Jacks with PC Terminals					
9	A	Phone Jack Right Angle Single Open Circuit	SC1121-ND	2.04	15.30	35.00	RN111PC
	B	Phone Jack Right Angle Single Closed Circuit	SC1122-ND	2.32	17.40	40.00	RN112APC
		1/4” (6.35mm) Three Conductor Jacks with Solder Lug Terminals					
8	C	Phone Jack Enclosed Double Open Circuit	SC1107-ND	2.28	17.10	39.25	112B
		1/4” (6.35mm) Three Conductor Jacks with PC Terminals					
9	C	Phone Jack Right Angle Double Open Circuit	SC1123-ND	2.48	18.60	42.75	RN112BPC
		1/4” (6.35mm) “TP-Jax” Thick-Panel Phone Jacks					
10	A	2 Conductor, Open Circuit	SC1034-ND	7.20	54.00	123.75	151
	C	3 Conductor, Open Circuit	SC1035-ND	7.92	59.40	136.25	152B
		“Extension-Jax” 1/4” (6.35mm) Cable Extension Jacks					
11	—	In Line 3 Conductor Shielded Handle Screw Terminals	SC1042-ND	9.64	72.30	165.75	1230
		Jack Cover					
12	—	Jack Cover Black with Hardware	SC1101-ND	8.48	63.60	145.75	515

Fig. 1

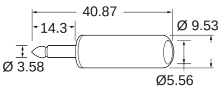

3.5mm Plug

Fig. 2

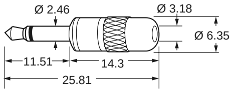

2.5mm Plug

Fig. 3

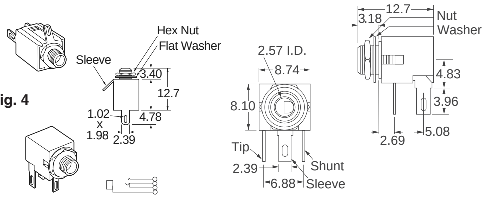

Fig. 4

Fig. 5

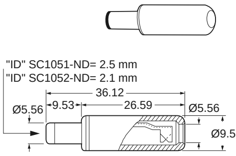

Fig. 6

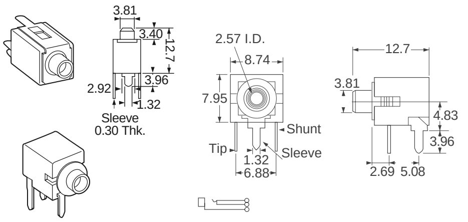

Fig. 7

Fig. 8

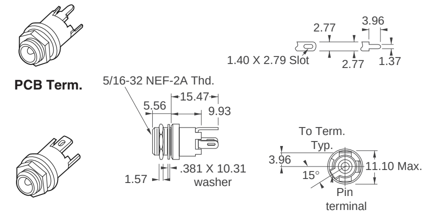

Fig. 9

Fig. 10

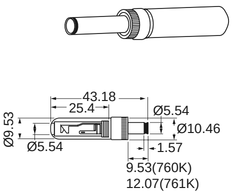

Fig. 11

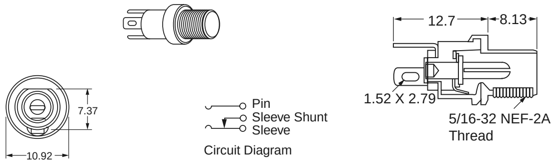

Fig. 12

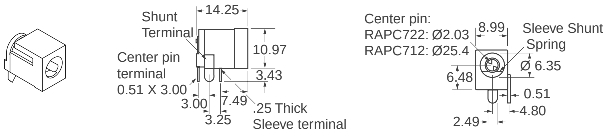

Fig. 13

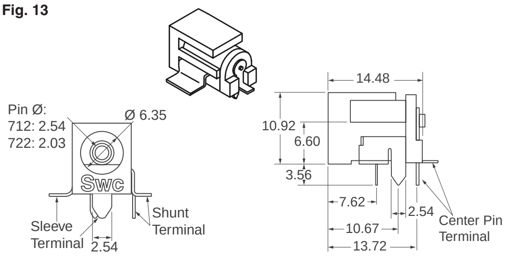

Fig. 14

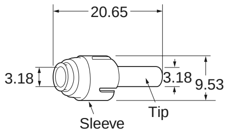

Fig. 15

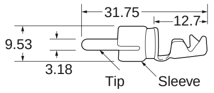

Fig. 16

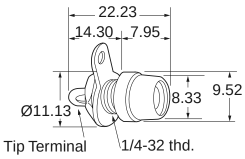

Fig. 17

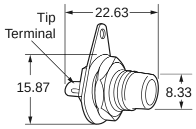

Fig. 18

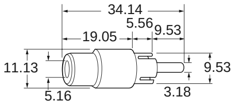

Fig. 19

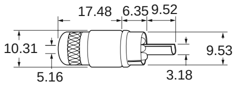

Fig. 20

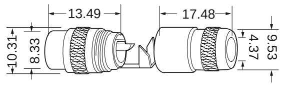

Fig.	Mates With	Description	Digi-Key Part No.	Price Each 1	10	25	Switchcraft Part No.
		"Tini Plug" Miniature Phone Plugs					
1	41	.141" (3.58mm) Black with Screw Terminals	SC1053-ND	3.60	2.70	2.48	740
	41	.141" (3.58mm) Black with Solder Lug & Cable Clamp	SC1055-ND	3.48	2.61	2.39	750
	41	.141" (3.58mm) Shielded with Solder Lug & Cable Clamp	SC1057-ND	4.72	3.54	3.25	780
		"Micro-plug" Subminiature Phone Plugs					
2	Fig. 3,4,6,7	.097" (2.46mm) 2 Cond Black with Solder Lugs	SC1058-ND	3.56	2.67	2.45	850
	Fig. 3,4,6,7	.097" (2.46mm) 2 Cond Red with Solder Lugs	SC1059-ND	3.56	2.67	2.45	855
	Fig. 3,4,6,7	.097" (2.46mm) 2 Cond Natural with Solder Lugs	SC1060-ND	3.56	2.67	2.45	880
		"Micro-d Jax" Subminiature Enclosed Phone Jack					
3	850	Subminiature 2 Cond Closed Circuit Solder Lug	SC1043-ND	2.36	1.77	1.62	MDSL2A
6	850	Subminiature 2 Cond Closed Circuit PCB	SC1044-ND	2.36	1.77	1.62	MDPC2A
4	850	Subminiature Rt. Angle 2 Cond Solder Lug	SC1045-ND	2.60	1.95	1.79	MDSL2ARA
7	850	Subminiature Rt. Angle PCB	SC1046-ND	2.60	1.95	1.79	MDPC2ARA
		Power Plugs					
5	712A	Power Plug .1" Black Handle (2.5 mm Dia.)	SC1051-ND	3.08	2.31	2.12	760
5	722A	Power Plug .08" Black Handle (2.1 mm Dia.)	SC1052-ND	3.08	2.31	2.12	S760
10	L712A	Conn Power Plug Locking 2.5 mm Blk	SC1148-ND	4.48	3.36	3.08	761K
10	712A	Conn Power Plug Locking 2.5 mm Blk	SC1149-ND	4.48	3.36	3.08	760K
		Power Jacks					
8	760K	Panel Mount Jack .1" Dia. PC Terminals (2.5 mm Dia.)	SC1050-ND	3.08	2.31	2.12	PC712A
8	S760K	Panel Mount Jack .08" Dia. (2.1 mm Dia.)	SC1047-ND	3.08	2.31	2.12	PC722A
9	760	Panel Mount Jack .1" Dia., Solder Lug (2.5 mm Dia.)	SC1048-ND	3.08	2.31	2.12	712A
9	S760	Panel Mount Jack .08" Dia., Solder Lug (2.1 mm Dia.)	SC1049-ND	3.08	2.31	2.12	722A
11	761K	Conn Power Jack 2.5 mm Panel Mount Long	SC1150-ND	4.20	3.15	2.89	L712A
	S761K	Conn Power Jack 2.1 mm Panel Mount Long	SC1151-ND	4.20	3.15	2.89	L722A
12	760	Conn Power Jack Right Angle PCB 2.5 mm	SC1152-ND	1.16	.87	.80	RAPC712
	S760	Conn Power Jack Right Angle PCB 2.1 mm	SC1153-ND	1.16	.87	.80	RAPC722
13	760	Conn Power Jack Hybrid SMT 2.5 mm	SC1154-ND	1.28	.96	.88	RASH712
	S760	Conn Power Jack Hybrid SMT 2.1 mm	SC1155-ND	1.28	.96	.88	RASH722

Fig.	Description	Digi-Key Part No.	Price Each 1	10	25	100	Switchcraft Part No.
	Phono Jacks and Plugs						
14	Phono Plug 2 Cond	SC1131-ND	.58	.43	.40	.36	3501M
15	Phono Plug 2 Cond. with Cable Clamp	SC1132-ND	1.20	.90	.83	.75	3501MC
16	Phono Jack 2 Cond. Panel Mount	SC1133-ND	1.60	1.20	1.10	1.00	3501FP
—	Insulated Washer Flat For SC1133-ND	SC1144-ND	.38	.28	.26	.24	S-2207
—	Insulated Washer Extruded For SC1133-ND	SC1145-ND	.42	.31	.29	.26	S-1564
17	Phono Jack 2 Cond. Panel Mount with Hardware	SC1134-ND	2.04	1.53	1.40	1.27	3501FR
—	Insulated Washer Flat For SC1134-ND	SC1146-ND	.18	.14	.13	.12	S-1028
—	Insulated Washer Extruded For SC1134-ND	SC1147-ND	.42	.31	.29	.26	S-1029
18	Phono Plug 2 Cond, Red Cable Clamp	SC1135-ND	1.68	1.26	1.16	1.05	3558-1
18	Phono Plug 2 Cond, Black Cable Clamp	SC1136-ND	1.68	1.26	1.16	1.05	3558-2
19	Phono Plug 2 Cond, Shielded with Cable Clamp	SC1138-ND	2.20	1.65	1.51	1.38	3502
20	Phono Extension Jack 2 Cond, Shielded with Heavy Duty Clamp	SC1139-ND	3.16	2.37	2.17	1.98	3503

Audio and Power Connectors

RoHS Compliant Parts Available
(parts other than indicated may be available as RoHS compliant)

Fig. 1 – Right Angle Panel Mount Jack, Mono

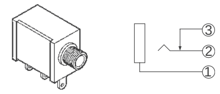

Fig. 2 – PCB Panel Mount Jack, Mono

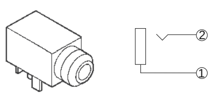

Fig. 3 – Straight Panel Mount Jack, Mono

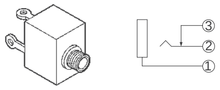

Fig. 4 – Audio Jack, Mono

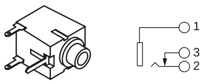

Fig. 5 – Audio Jack, Mono

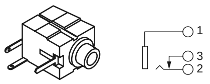

Fig. 6 – Audio Jack, Mono

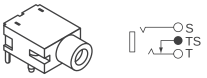

Fig. 7 – SMT Audio Jack, Mono

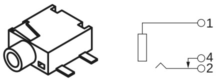

Fig. 8 – SMT Audio Jack, Mono

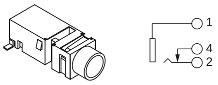

Fig. 9 – SMT Audio Jack

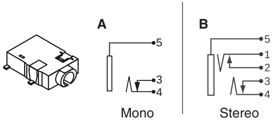

Fig. 10 – Audio Jack, Mono

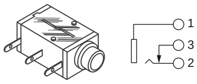

Fig. 11 – SMT Audio Jack, Mono

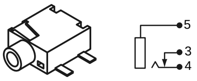

Fig. 12 – SMT Audio Jack, Mono

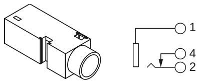

Fig. 13 – Right Angle Panel Mount Jack, Mono

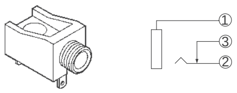

Fig. 14 – Audio Jack, Mono

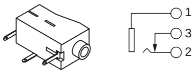

Fig. 15 – Audio Jack, Mono

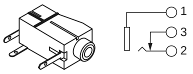

Fig. 16 – Male Mono Plug

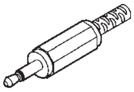

Fig. 17 – Male Power Jack, Closed

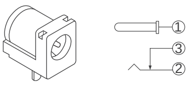

Fig. 18 – Right Angle Power Jack

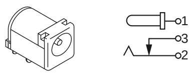

Fig. 19 – SMT Power Jack

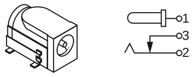

Fig. 20 – SMT Power Jack

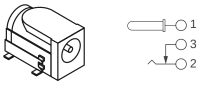

Fig. 21 – Male Power Jack, Open

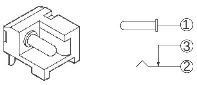

Fig. 22 – Panel Mount Jack

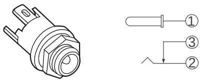

Fig. 23 – Power Jack with Solder Eyelets

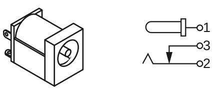

Fig. 24 – Vertical Power Jacks SMT

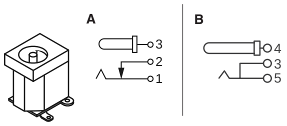

Fig. 25 – Right Angle Power Jack

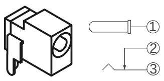

Fig. 26 – DC Power Jack

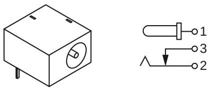

Fig. 27 – SMT Power Jack

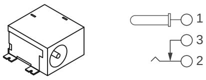

Fig. 28 – DC Power Jack

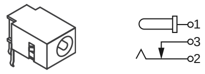

Fig. 29 – Male Power Jack, PCB (with kinked PCB pins)

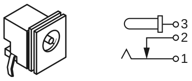

Fig. 30 – SMT Power Jack

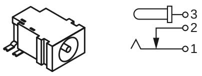

Fig. 31 – DC Power Jack

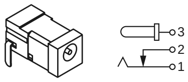

Fig. 32 – SMT Power Jack

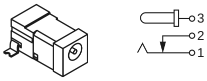

Fig. 33 – DC Power Jack

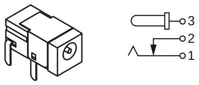

Fig. 34 – SMT Power Jack

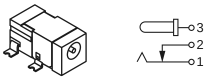

Fig. 35 – DC Power Jack (with 1mm PCB pins)

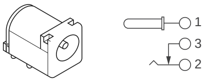

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
1	2.5	CP-2502-ND*◆	.99	.86	.66	MJ-2502
2	2.5	CP1-2503AM-ND†◆	.32	.28	.22	MJ1-2503A
3	2.5	CP-2505-ND*◆	.93	.81	.62	MJ-2505
4	2.5	CP-2506-ND*	.41	.36	.28	MJ-2506
		CP-2506N-ND†	.41	.36	.28	MJ-2506N
5	2.5	CP-2508-ND*	.35	.31	.24	MJ-2508
		CP-2508N-ND†◆	.35	.31	.24	MJ-2508N
6	2.5	CP-M2509N-ND◆	.38	.34	.26	MJ-2509N
7	2.5	CP1-2510MJCT-ND◆	.68	.59	.45	MJ1-2510-SMT
		CP1-2510MJTR-ND◆		337.50/1,000		MJ1-2510-SMT
8	2.5	CP-2523MJCT-ND◆	.86	.75	.58	MJ-2523-SMT
		CP-2523MJTR-ND◆		429.00/1,000		MJ-2523-SMT
9A	2.5	CP-2533MJTR-ND		495.00/1,000		MJ-2533-SMT
		CP1-2533MJCT-ND	.69	.61	.47	MJ1-2533-SMT
		CP1-2533MJTR-ND		346.50/1,000		MJ1-2533-SMT
9B	2.5	CP1-2535SJCT-ND	.75	.65	.50	SJ1-2535-SMT
		CP1-2535SJTR-ND		375.00/1,000		SJ1-2535-SMT
10	3.5	CP-3502MJ-ND*	.66	.58	.45	MJ-3502
		CP-3502N-ND†	.62	.54	.41	MJ-3502N
11	3.5	CP1-3510MJCT-ND	.63	.55	.42	MJ1-3510-SMT
		CP1-3510MJTR-ND		252.00/800		MJ1-3510-SMT
12	3.5	CP-3523MJCT-ND	.87	.76	.58	MJ-3523-SMT
		CP-3523MJTR-ND		433.50/1,000		MJ-3523-SMT
13	3.5	CP-3536-ND*◆	.39	.35	.27	MJ-3536
14	3.5	CP-3536N-ND†◆	.39	.35	.27	MJ-3536N
15	3.5	CP-3536NG-ND‡	.39	.35	.27	MJ-3536NG
16	2.5	CP-2501-ND	.76	.66	.51	MP-2501
	2.5	CP3-1004-ND◆ ***NEW!***	.76	.66	.51	MP3-2501
16	3.5	CP-3501-ND	.76	.66	.51	MP-3501
	3.5	CP3-1005-ND◆ ***NEW!***	.76	.66	.51	MP3-3501
17	2.1	CP-002A-ND	.38	.33	.26	PJ-002A
	2.5	CP-002B-ND	.38	.33	.26	PJ-002B
18	2.0	CP-002AH-ND	.42	.37	.28	PJ-002AH
	2.5	CP-002BH-ND	.42	.37	.28	PJ-002BH
19	2.0	CP-002AHPJCT-ND◆	.81	.70	.54	PJ-002AH-SMT
	2.0	CP-002AHPJTR-ND◆		100.88/250		PJ-002AH-SMT
	2.5	CP-002BHPJCT-ND	.90	.78	.60	PJ-002BH-SMT
	2.5	CP-002BHPJTR-ND		112.50/250		PJ-002BH-SMT
20	2.1	CP-002APJCT-ND◆	.81	.70	.54	PJ-002A-SMT
	2.1	CP-002APJTR-ND◆		100.88/250		PJ-002A-SMT
	2.5	CP-002BPJCT-ND◆	.81	.70	.54	PJ-002B-SMT
	2.5	CP-002BPJTR-ND◆		100.88/250		PJ-002B-SMT
21	2.1	CP-003A-ND◆	.34	.30	.23	PJ-003A
	2.5	CP-003B-ND◆	.34	.30	.23	PJ-003B
22	2.0	CP-5-ND*	1.83	1.59	1.22	PJ-005A
	2.5	CP-6-ND*◆	1.83	1.59	1.22	PJ-005B
23	2.1	CP-006A-ND◆	.45	.38	.30	PJ-006A
	2.5	CP-006B-ND◆	.45	.39	.30	PJ-006B
24A	2.1	CP-006APJCT-ND◆	.93	.81	.62	PJ-006A-SMT
	2.1	CP-006APJTR-ND◆		116.25/250		PJ-006A-SMT
	2.5	CP-006BPJCT-ND	.93	.81	.62	PJ-006B-SMT
	2.5	CP-006BPJTR-ND◆		116.25/250		PJ-006B-SMT
24B	2.1	CP-015APJCT-ND	.69	.60	.46	PJ-015A-SMT
	2.1	CP-015APJTR-ND		51.75/150		PJ-015A-SMT
	2.5	CP-015BPJCT-ND	.69	.60	.46	PJ-015B-SMT
	2.5	CP-015BPJTR-ND		51.75/150		PJ-015B-SMT
25	1.3	CP-2519-ND◆	.45	.39	.30	PJ-007
26	1.0	CP-014C-ND◆	.42	.37	.28	PJ-014C
	1.3	CP-014D-ND	.42	.37	.28	PJ-014D
27	1.0	CP-014CHPJCT-ND◆	.90	.78	.60	PJ-014CH-SMT
	1.0	CP-014CHPJTR-ND◆		360.00/800		PJ-014CH-SMT
	1.3	CP-014DHPJCT-ND◆	.90	.78	.60	PJ-014DH-SMT
	1.3	CP-014DHPJTR-ND◆		360.00/800		PJ-014DH-SMT
	1.0	CP-014CPJCT-ND◆	.83	.72	.56	PJ-014C-SMT
	1.0	CP-014CPJTR-ND◆		332.40/800		PJ-014C-SMT
	1.3	CP-014DPJCT-ND	.83	.72	.56	PJ-014D-SMT
	1.3	CP-014DPJTR-ND◆		332.40/800		PJ-014D-SMT
28	1.65	CP-016-ND	.54	.47	.36	PJ-016
29	1.65	CP1-021-ND	.42	.37	.28	PJ1-021
30	1.65	CP1-021PJCT-ND	.65	.57	.44	PJ1-021-SMT
		CP1-021PJTR-ND		163.50/500		PJ1-021-SMT
31	0.65	CP1-022-ND◆	.60	.52	.40	PJ1-022
32	0.65	CP1-022PJCT-ND◆	.65	.56	.43	PJ1-022-SMT
		CP1-022PJTR-ND◆		322.50/1,000		PJ1-022-SMT
33	0.65	CP1-023-ND◊◆	.58	.51	.39	PJ1-023
34	0.65	CP1-023PJCT-ND◊◆	.67	.59	.45	PJ1-023-SMT
		CP1-023PJTR-ND◊◆		336.00/1,000		PJ1-023-SMT
35	2.1	CP-102A-ND◆	.38	.33	.26	PJ-102A
	2.5	CP-102B-ND◆	.38	.33	.26	PJ-102B
36	2.1	CP-102AH-ND	.42	.37	.28	PJ-102AH
	2.5	CP-102BH-ND	.42	.37	.28	PJ-102BH
37	2.1	CP-202A-ND◆	.38	.33	.26	PJ-202A
	2.5	CP-202B-ND	.38	.33	.26	PJ-202B
38	2.1	CP-202AH-ND	.42	.37	.28	PJ-202AH
	2.5	CP-202BH-ND◆	.42	.37	.28	PJ-202BH

* Threaded with nut † Non-threaded § Tray ‡ Non-threaded and Isolated Ground ◊ Shielded Version ◆ ***RoHS Compliant***

(Continued)

Fig. 36 – Male Power Jack, PCB

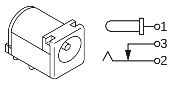

Fig. 37 – Male Power Jack, PCB
(with kinked PCB pins)

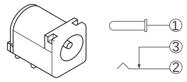

Fig. 38 – Male Power Jack, PCB
(with kinked PCB pins)

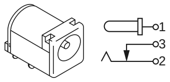

Fig. 39 - Power Socket

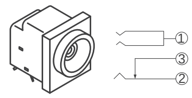

Fig. 40 – Female Plug 5.5 Outside

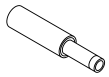

Fig. 41 – Power Receptacle

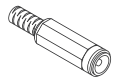

Fig. 42 – Female Plug, 3.5mm Outside

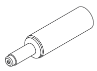

Fig. 43 – Female Plug, 3.5mm Outside

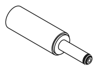

Fig. 44 – Female Plug

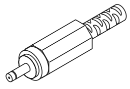

Fig. 45 – Power Plug

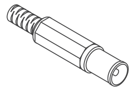

Fig. 46 – Earphone Combo Jack

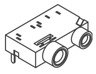

Fig. 47 – Audio Jack, Stereo

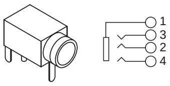

Fig. 48 – SMT Stereo Jack

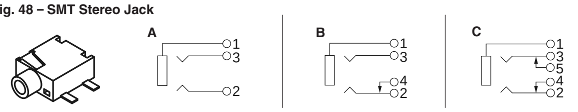

Fig. 49 – SMT Audio Jack, Stereo

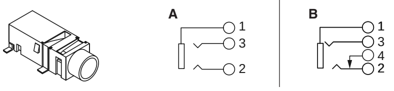

Fig. 50 – SMT Audio Jack, Stereo

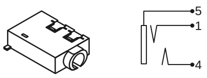

Fig. 51 – SMT Audio Jack, Stereo

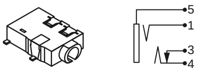

Fig. 52 – Right Angle PCB Mount Jack, Stereo

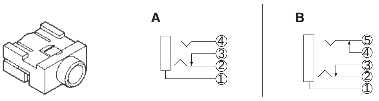

Fig. 53 – Audio Jack, Stereo

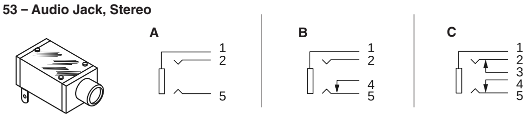

Fig. 54 – SMT Audio Jack, Stereo

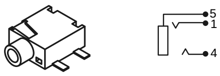

Fig. 55 – SMT Audio Jack, Stereo

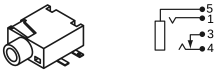

Fig. 56 – SMT Audio Jack, Stereo

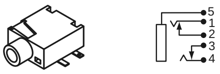

Fig. 57 – Audio Jack, Stereo

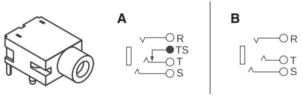

Fig. 58 – Audio Jack, Stereo

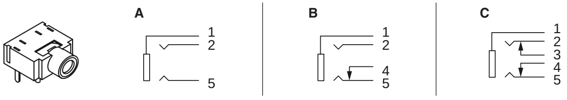

Fig. 59 – SMT Audio Jack, Stereo

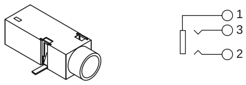

Fig. 60 – SMT Audio Jack, Stereo

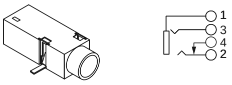

Fig. 61 – Audio Jack, Stereo

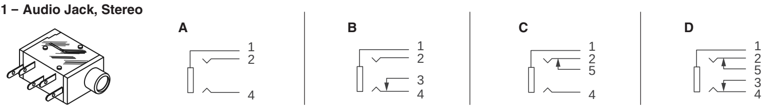

Fig. 62 – Stereo Jack

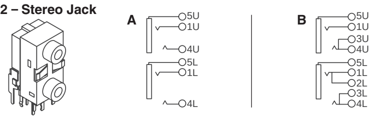

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
39	1.45	CP-025-ND◆	.66	.58	.44	PJ-025
40	2.1	CP-004A-ND	.65	.56	.43	PP-002A
	2.1	CP3-1000-ND◆ ***NEW!***	.93	.81	.62	PP3-002A
	2.5	CP-004B-ND	.65	.56	.43	PP-002B
	2.5	CP3-1001-ND◆ ***NEW!***	.93	.81	.62	PP3-002B
41	2.1	CP-024A-ND◆	2.28	1.98	1.52	PR-002A
	2.5	CP-024B-ND◆	2.28	1.98	1.52	PR-002B
42	1.0	CP-002C-ND	.78	.68	.53	PP-002C
	1.0	CP3-1002-ND◆ ***NEW!***	.93	.81	.62	PP3-002C
43	1.3	CP-002D-ND	.78	.68	.53	PP-002D
	1.3	CP3-1003-ND◆ ***NEW!***	.93	.81	.62	PP3-002D
44	.7 x 2.35	CP-012-ND	.90	.78	.60	PP-012
	1.7 x 4.0	CP-013-ND◆	.84	.73	.56	PP-013
	1.7 x 4.75	CP-014-ND◆	.84	.73	.56	PP-014
45	1.4	CP-026-ND◆	.54	.47	.36	PP-016
46	3.5/ 2.5	CP-320154-ND	1.18	1.03	.79	SJD-3201-54
47	2.5	CP1-2503A-ND†◆	.33	.29	.22	SJ1-2503A
48A	2.5	CP1-2513SJCT-ND◆	.68	.59	.45	SJ1-2513-SMT
		CP1-2513SJTR-ND◆	337.50/1,000			SJ1-2513-SMT
48B	2.5	CP-2514TR-ND	1050.00/1,000			SJ-2513-SMT
		CP1-2514SJCT-ND	.69	.60	.46	SJ1-2514-SMT
		CP1-2514SJTR-ND	345.00/1,000			SJ1-2514-SMT
48C	2.5	CP1-2515SJCT-ND	.71	.62	.47	SJ1-2515-SMT
		CP1-2515SJTR-ND	352.50/1,000			SJ1-2515-SMT
		CP-2516TR-ND	864.00/800			SJ-2514-SMT
49A	2.5	CP-2523SJCT-ND◆	.86	.75	.58	SJ-2523-SMT
		CP-2523SJTR-ND◆	429.00/1,000			SJ-2523-SMT
49B	2.5	CP-2524SJCT-ND◆	.90	.78	.60	SJ-2524-SMT
		CP-2524SJTR-ND	448.50/1,000			SJ-2524-SMT
50	2.5	CP1-2533SJCT-ND	.69	.61	.47	SJ1-2533-SMT
		CP1-2533SJTR-ND◆	346.50/1,000			SJ1-2533-SMT
51	2.5	CP1-2534SJCT-ND	.74	.64	.49	SJ1-2534-SMT
		CP1-2534SJTR-ND	367.50/1,000			SJ1-2534-SMT
52A	3.5	CP-3504-ND†◆	2.06	1.79	1.38	SJ-3504
52B	3.5	CP-3505-ND†	2.10	1.83	1.41	SJ-3505
53A	3.5	CP1-3513-ND*◆	.59	.52	.40	SJ1-3513
		CP1-3513N-ND†◆	.53	.46	.35	SJ1-3513N
53B	3.5	CP-3514-ND*	.84	.74	.57	SJ-3514
		CP1-3514-ND*◆	.60	.53	.41	SJ1-3514
		CP-3514N-ND†	.82	.71	.55	SJ-3514N
		CP1-3514N-ND†◆	.54	.47	.36	SJ1-3514N
53C	3.5	CP-3515-ND*	.84	.74	.57	SJ-3515
		CP1-3515-ND*◆	.62	.54	.41	SJ1-3515
		CP1-3515N-ND†◆	.55	.48	.37	SJ1-3515N
54	3.5	CP1-3513SJCT-ND◆	.63	.55	.42	SJ1-3513-SMT
		CP1-3513SJTR-ND◆	252.00/800			SJ1-3513-SMT
55	3.5	CP1-3514SJCT-ND	.65	.56	.43	SJ1-3514-SMT
		CP1-3514SJTR-ND	258.00/800			SJ1-3514-SMT
56	3.5	CP1-3515SJCT-ND◆	.66	.58	.44	SJ1-3515-SMT
		CP1-3515SJTR-ND◆	264.00/800			SJ1-3515-SMT
57A	2.5	CP-S2504N-ND◆	.45	.40	.31	SJ-2504N
57B	2.5	CP-S2509N-ND	.43	.37	.29	SJ-2509N
58A	3.5	CP1-3523N-ND†◆	.38	.33	.26	SJ1-3523N
		CP1-3523NG-ND‡◆	.38	.34	.26	SJ1-3523NG
58B	3.5	CP1-3524NG-ND‡◆	.40	.35	.27	SJ1-3524NG
		CP1-3524N-ND†◆	.39	.34	.26	SJ1-3524N
58C	3.5	CP1-3525NG-ND◆	.41	.36	.28	SJ1-3525NG
		CP1-3525N-ND◆	.40	.35	.27	SJ1-3525N
59	3.5	CP-3523SJCT-ND◆	.87	.76	.58	SJ-3523-SMT
		CP-3523SJTR-ND◆	433.50/1,000			SJ-3523-SMT
60	3.5	CP-3524SJCT-ND◆	.90	.78	.60	SJ-3524-SMT
		CP-3524SJTR-ND◆	448.50/1,000			SJ-3524-SMT
61A	3.5	CP1-3533-ND◆	.68	.59	.46	SJ1-3533
		CP1-3533N-ND◆	.60	.53	.41	SJ1-3533N
		CP1-3533NG-ND‡◆	.59	.52	.40	SJ1-3533NG
		CP-3533NGS-ND‡◊	1.09	.95	.73	SJ-3533NGS
		CP1-3533NS-ND†◊◆	.77	.67	.51	SJ1-3533NS
61B	3.5	CP1-3534-ND*◆	.69	.61	.47	SJ1-3534
		CP-3534N-ND†	.98	.85	.66	SJ-3534N
		CP1-3534N-ND†◆	.62	.54	.41	SJ1-3534N
		CP-3534NG-ND‡	.98	.85	.66	SJ-3534NG
		CP1-3534NG-ND‡◆	.61	.53	.41	SJ1-3534NG
61C	3.5	CP-3534NGS-ND‡◊	1.12	.97	.75	SJ-3534NGS
		CP-3534NS-ND†◊	1.12	.97	.75	SJ-3534NS
		CP1-3534NS-ND†◊	.78	.68	.52	SJ1-3534NS
61D	3.5	CP1-3535-ND*◆	.71	.62	.47	SJ1-3535
		CP1-3535N-ND†◆	.63	.55	.42	SJ1-3535N
		CP1-3535NG-ND‡◆	.62	.54	.42	SJ1-3535NG
		CP1-3535NS-ND†◆	.80	.69	.53	SJ1-3535NS
62A	3.5	CP-351133-ND◆	1.67	1.46	1.12	SJD-3511-33
62B	3.5	CP-351145-ND	1.58	1.37	1.05	SJD-3511-45
63A	3.5	CP-351033-ND◆	1.43	1.24	.96	SJD-3510-33
		CP-351233-ND	1.67	1.46	1.12	SJD-3512-33
63B	3.5	CP-351045-ND	1.49	1.29	1.00	SJD-3510-45
		CP-351245-ND	1.82	1.58	1.22	SJD-3512-45
64A	3.5	CP1-3543-ND*◆	.62	.54	.42	SJ1-3543
		CP1-3543N-ND*◆	.55	.48	.37	SJ1-3543N
64B	3.5	CP1-3544-ND*◆	.63	.55	.43	SJ1-3544
		CP-3544N-ND†	.97	.84	.65	SJ-3544N
		CP1-3544N-ND†◆	.56	.49	.38	SJ1-3544N
64C	3.5	CP1-3545N-ND†◆	.57	.50	.38	SJ1-3545N
65A	3.5	CP1-3553NG-ND‡◆	.50	.44	.34	SJ1-3553NG
65B	3.5	CP-3554NG-ND‡	.94	.82	.63	SJ-3554NG
		CP1-3554NG-ND‡◆	.52	.45	.35	SJ1-3554NG
65C	3.5	CP1-3555NG-ND‡◆	.53	.46	.36	SJ1-3555NG
66A	2.5	CP1-42514-ND	.71	.62	.48	SJ1-42514
66B	2.5	CP-42515RS-ND	1.05	.91	.70	SJ-42515RS
		CP1-42515RS-ND	.74	.64	.49	SJ1-42515RS

* Threaded with nut † Non-threaded § Tray ‡ Non-threaded and Isolated Ground ◊ Shielded Version ◆ ***RoHS Compliant***

(Continued)

Fig. 63 – Stereo Jack

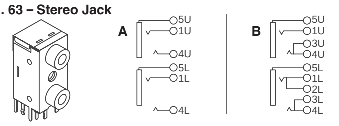

Fig. 64 – Audio Jack, Stereo

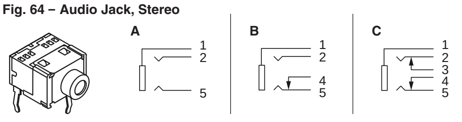

Fig. 65 – Audio Jack, Stereo

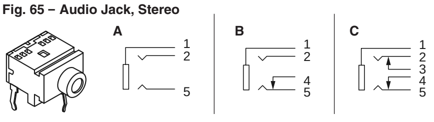

Fig. 66 – Audio Jack

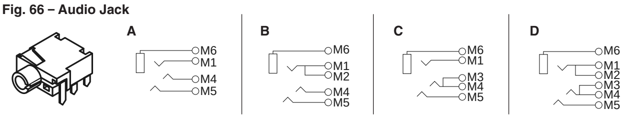

Fig. 67 – SMT Audio Jack

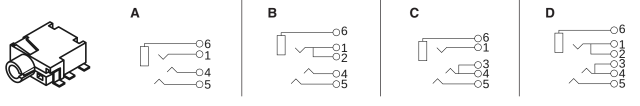

Fig. 68 – SMT Audio Jack

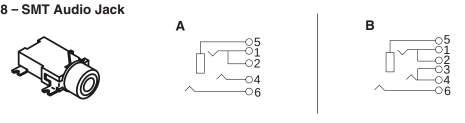

Fig. 69 – SMT Audio Jack

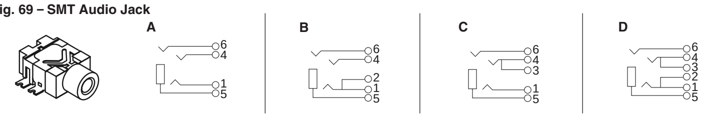

Fig. 70 – Panel Mount Audio Jack

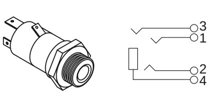

Fig. 71 – Audio Jack

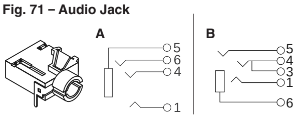

Fig. 72 – SMT Audio Jack

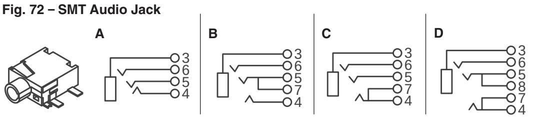

Fig. 73 – Audio Jack

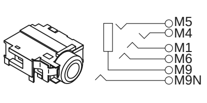

Fig. 74 – 2.5mm Male Stereo Plug

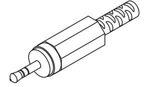

Fig. 75 – 3.5mm Male Stereo Plug

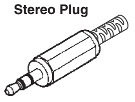

Fig. 76 - Female Mono Jack

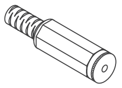

Fig. 77 - Female Stereo Jack

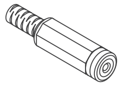

Fig. 78 – Stereo Audio Cables

Male to Male

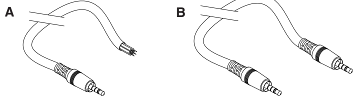

Male to Stripped & Tinned

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
66C	2.5	CP-42515TS-ND	1.05	.91	.70	SJ-42515TS
	2.5	CP1-42515TS-ND	.74	.64	.49	SJ1-42515TS
66D	2.5	CP-42516-ND	1.08	.94	.72	SJ-42516
		CP1-42516-ND	.76	.66	.51	SJ1-42516
67A	2.5	CP1-42514SJCT-ND◆	.80	.70	.54	SJ1-42514-SMT
		CP1-42514SJTR-ND◆	400.50/1,000			SJ1-42514-SMT
67B	2.5	CP-42515RSSJTR-ND	525.00/1,000			SJ-42515RS-SMT
		CP-42515RSSJ-ND§	1.05	.91	.70	SJ-42515RS-SMT-1
		CP1-42515RSSJCT-ND	.83	.72	.55	SJ1-42515RS-SMT
		CP1-42515RSSJTR-ND	412.50/1,000			SJ1-42515RS-SMT
67C	2.5	CP-42515TSSJTR-ND	525.00/1,000			SJ-42515TS-SMT
		CP-42515TSSJ-ND§	1.05	.91	.70	SJ-42515TS-SMT-1
		CP1-42515TSSJCT-ND	.83	.72	.55	SJ1-42515TS-SMT
		CP1-42515TSSJTR-ND	412.50/1,000			SJ1-42515TS-SMT
67D	2.5	CP-42516SJTR-ND	540.00/1,000			SJ-42516-SMT
		CP1-42516SJCT-ND	.85	.74	.57	SJ1-42516-SMT
		CP1-42516SJTR-ND◆	424.50/1,000			SJ1-42516-SMT
68A	2.5	CP-42525RSSJTR-ND	525.00/1,000			SJ-42525RS-SMT

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
68B	2.5	CP-42526SJCT-ND	1.08	.94	.72	SJ-42526-SMT
		CP-42526SJTR-ND	648.00/1,200			SJ-42526-SMT
		CP-42526SJ-ND§	1.08	.94	.72	SJ-42526-SMT-1
69A	2.5	CP1-42534SJCT-ND	.86	.75	.57	SJ1-42534-SMT
		CP1-42534SJTR-ND	427.50/1,000			SJ1-42534-SMT
69B	2.5	CP-42535RSSJTR-ND	585.00/1,000			SJ-42535RS-SMT
		CP-42535RSSJ-ND§	1.17	1.02	.78	SJ-42535RS-SMT-1
		CP1-42535RSSJCT-ND	.88	.77	.59	SJ1-42535RS-SMT
		CP1-42535RSSJTR-ND	439.50/1,000			SJ1-42535RS-SMT
69C	2.5	CP-42535TSSJTR-ND	585.00/1,000			SJ-42535TS-SMT
		CP-42535TSSJ-ND§	1.17	1.02	.78	SJ-42535TS-SMT-1
		CP1-42535TSSJCT-ND	.88	.77	.59	SJ1-42535TS-SMT
		CP1-42535TSSJTR-ND	439.50/1,000			SJ1-42535TS-SMT
69D	2.5	CP-42536SJ-ND§	1.20	1.04	.80	SJ-42536-SMT-1
		CP1-42536SJCT-ND	.90	.78	.60	SJ1-42536-SMT
		CP1-42536SJTR-ND	450.00/1,000			SJ1-42536-SMT
70	3.5	CP-43502PM-ND◆	3.69	3.20	2.46	SJ-43502PM
71A	3.5	CP-43514-ND◆	.90	.78	.60	SJ-43514

Fig.	Dia. mm	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
71B	3.5	CP-43515TS-ND◆	.93	.81	.62	SJ-43515TS
72A	3.5	CP-43514SJCT-ND	.69	.60	.46	SJ-43514-SMT
		CP-43514SJTR-ND	345.00/1,000			SJ-43514-SMT
72B	3.5	CP-43515RSSJCT-ND	.71	.62	.47	SJ-43515RS-SMT
		CP-43515RSSJTR-ND◆	352.50/1,000			SJ-43515RS-SMT
72C	3.5	CP-43515TSSJCT-ND	.71	.62	.47	SJ-43515TS-SMT
		CP-43515TSSJTR-ND	352.50/1,000			SJ-43515TS-SMT
72D	3.5	CP-43516SJCT-ND	.72	.63	.48	SJ-43516-SMT
		CP-43516SJTR-ND	360.00/1,000			SJ-43516-SMT
73	3.5	CP-63516-ND	1.26	1.10	.84	SJ-63516
74	2.5	CP-2501SP-ND	.96	.84	.64	SP-2501
75	3.5	CP-3502-ND	.87	.76	.59	SP-3501
	3.5	CP3-1006-ND◆ ***NEW!***	.87	.76	.59	SP3-3501
76	2.5	CP-2520-ND◆	1.29	1.12	.86	MR-2501
	3.5	CP-3506-ND◆	1.29	1.12	.86	MR-3501
77	2.5	CP-2521-ND◆	1.92	1.67	1.28	SR-2501
	3.5	CP-3507-ND◆	1.92	1.67	1.28	SR-3501

Fig.	Diameter (mm)	Length Meters	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.	Mating Jacks
			Cable Assembly 4 Conductor					
78A	2.5	1.83	CP-254CS-ND	5.04	4.37	3.36	CA-254CS	SJ-4252X-SMT
	2.5		CP-254S-ND	4.89	4.24	3.26	CA-254S	SJ-4251X-SMT, SJ-4243X-SMT
	3.5		CP-354S-ND◆	5.73	4.97	3.82	CA-354S	SJ-4351X, SJ-43502PM
78B	2.5	1.83	CP-254CS-M/M-ND	5.91	5.13	3.94	CA-254CS-M/M	SJ-4252X-SMT
	2.5		CP-254S-M/M-ND◆	5.73	4.97	3.82	CA-254S-M/M	SJ-4251X-SMT, SJ-4243X-SMT, SJ-4251X
	3.5		CP-354S-M/M-ND◆	6.27	5.44	4.18	CA-354S-M/M	SJ-4351X, SJ-43502PM
			Cable Assembly 6 Conductor					
78A	3.5	1.83	CP-356CS-ND	8.04	6.97	5.36	CA-356CS	SJ-63516
78B			CP-356CS-M/M-ND	11.85	10.27	7.90	CA-356CS-M/M	SJ-63516

* Threaded with nut † Non-threaded § Tray ‡ Non-threaded and Isolated Ground ◊ Shielded Version ◆ ***RoHS Compliant***

Single Ended Power Cables

Fig.	Dimensions (mm) A	B	C	Wire Awg	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
					Straight Cable Assembly				
1	0.70	2.35	9.5	24	CP-2192-ND	1.47	1.28	.98	CA-2192
	1.35	3.5	9.5	24	CP-2193-ND◆	1.32	1.15	.88	CA-2193
	1.7	4	10	24	CP-2194-ND	1.38	1.20	.92	CA-2194
	1.7	4.75	9.5	24	CP-2195-ND◆	1.38	1.20	.92	CA-2195
	2.1	5.5	12	24	CP-2185-ND◆	1.29	1.12	.86	CA-2185
	2.1	5.5	12	18	CP-2187-ND◆	2.10	1.82	1.40	CA-2187
	2.5	5.5	12	24	CP-2184-ND◆	1.29	1.12	.86	CA-2184
	2.5	5.5	12	18	CP-2186-ND◆	2.10	1.82	1.40	CA-2186
					Right Angle Cable Assembly				
2	0.70	2.35	11	24	CP-2196-ND◆	1.47	1.28	.98	CA-2196
	1.35	3.5	10	24	CP-2197-ND◆	1.32	1.15	.88	CA-2197
	1.7	4	9.5	24	CP-2198-ND	1.38	1.20	.92	CA-2198
	1.7	4.75	9.5	24	CP-2199-ND◆	1.38	1.20	.92	CA-2199
	2.1	5.5	12	24	CP-2189-ND◆	1.29	1.12	.86	CA-2189
	2.1	5.5	10	18	CP-2191-ND◆	2.10	1.82	1.40	CA-2191
	2.5	5.5	12	24	CP-2188-ND◆	1.29	1.12	.86	CA-2188
	2.5	5.5	10	18	CP-2200-ND◆	2.10	1.82	1.40	CA-2200

◆ ***RoHS Compliant***

Fig. 1

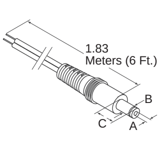

Fig. 2

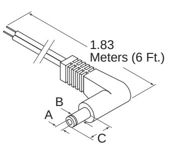

Single Ended Audio Cables

RoHS COMPLIANT

Fig.	Dim. (mm) A	B	Wire Awg	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
				Mono Plug – Straight				
1	2.5	11.5	24	CP-2201-ND	2.04	1.77	1.36	CA-2201
	3.5	13	24	CP-2205-ND	2.07	1.80	1.38	CA-2205
				Stereo Plug – Straight				
1	2.5	11	24	CP-2203-ND	2.07	1.80	1.38	CA-2203
	3.5	13	24	CP-2207-ND	2.10	1.82	1.40	CA-2207
				Mono Plug – Right Angle				
2	2.5	11.5	24	CP-2202-ND	2.04	1.77	1.36	CA-2202
	3.5	14.5	24	CP-2206-ND	2.07	1.80	1.38	CA-2206
				Stereo Plug – Right Angle				
2	2.5	11	24	CP-2204-ND	2.07	1.80	1.38	CA-2204
	3.5	14	24	CP-2208-ND	2.10	1.82	1.40	CA-2208

Fig. 1

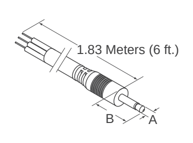

Fig. 2

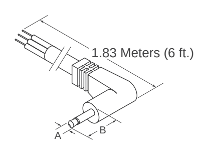

Phono Plugs and Jacks

Fig. 1

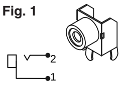

Fig. 2

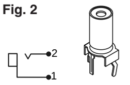

Fig. 3

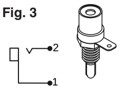

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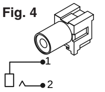

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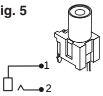

Fig. 6

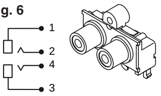

Fig. 7

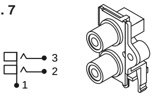

Fig. 8

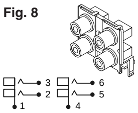

Fig. 9

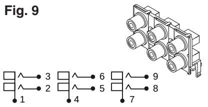

Fig. 10

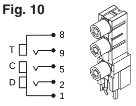

Fig. 11

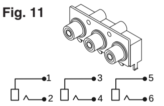

Fig. 12

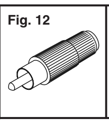

Fig. 13

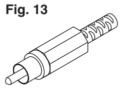

Fig. 14

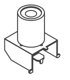

Fig.	Color	Digi-Key Part No.	Price Each 1	10	100	CUI Inc. Part No.
1	Black	CP-1400-ND	.61	.53	.41	RCJ-011
	Red	CP-1401-ND	.61	.53	.41	RCJ-012
	White	CP-1402-ND	.61	.53	.41	RCJ-013
	Yellow	CP-1403-ND	.61	.53	.41	RCJ-014
	Blue	CP-1404-ND	.61	.53	.41	RCJ-015
	Green	CP-1405-ND	.61	.53	.41	RCJ-016
	Orange	CP-1466-ND	.61	.53	.41	RCJ-017
2	Black	CP-1406-ND	.58	.51	.39	RCJ-021
	Red	CP-1407-ND	.58	.51	.39	RCJ-022
	White	CP-1408-ND	.58	.51	.39	RCJ-023
	Yellow	CP-1409-ND	.58	.51	.39	RCJ-024
	Blue	CP-1410-ND	.58	.51	.39	RCJ-025
	Green	CP-1411-ND	.58	.51	.39	RCJ-026
	Orange	CP-1467-ND	.58	.51	.39	RCJ-027
3	Black	CP-1412-ND	.71	.62	.47	RCJ-031
	Red	CP-1413-ND	.71	.62	.47	RCJ-032
	White	CP-1414-ND	.71	.62	.47	RCJ-033
	Yellow	CP-1415-ND	.71	.62	.47	RCJ-034
	Blue	CP-1416-ND	.71	.62	.47	RCJ-035
	Green	CP-1417-ND	.71	.62	.47	RCJ-036
	Orange	CP-1468-ND	.71	.62	.47	RCJ-037
4	Black	CP-1418-ND	.88	.77	.59	RCJ-041
	Red	CP-1419-ND	.88	.77	.59	RCJ-042
	White	CP-1420-ND	.88	.77	.59	RCJ-043
	Yellow	CP-1421-ND	.88	.77	.59	RCJ-044
	Blue	CP-1422-ND	.88	.77	.59	RCJ-045
	Green	CP-1423-ND	.88	.77	.59	RCJ-046
	Orange	CP-1469-ND	.88	.77	.59	RCJ-047
5	Black	CP-1424-ND	.66	.57	.44	RCJ-051
	Red	CP-1425-ND	.66	.57	.44	RCJ-052
	White	CP-1426-ND	.66	.57	.44	RCJ-053
	Yellow	CP-1427-ND	.66	.57	.44	RCJ-054
	Blue	CP-1428-ND	.66	.57	.44	RCJ-055
	Green	CP-1429-ND	.66	.57	.44	RCJ-056
	Orange	CP-1470-ND	.66	.57	.44	RCJ-057
6	Red/Black	CP-1430-ND	.89	.78	.60	RCJ-2121
	White/Yellow	CP-1431-ND	.89	.78	.60	RCJ-2134
	Red/White	CP-1432-ND	.89	.78	.60	RCJ-2123
7	Red/Black	CP-1433-ND	.86	.75	.58	RCJ-2221
	White/Yellow	CP-1434-ND	.86	.75	.58	RCJ-2234
	Red/White	CP-1435-ND	.86	.75	.58	RCJ-2223
8	Red/Black	CP-1436-ND	1.47	1.28	.98	RCJ-412211
	White/Yellow	CP-1437-ND	1.47	1.28	.98	RCJ-413344
	Red/White	CP-1438-ND	1.47	1.28	.98	RCJ-412233
9	Red/Black	CP-1439-ND	1.98	1.72	1.32	RCJ-61212121
	White/Yellow	CP-1440-ND	1.98	1.72	1.32	RCJ-61343434
	Red/White	CP-1441-ND	1.98	1.72	1.32	RCJ-61232323
	Red/White/Yellow	CP-1442-ND	1.98	1.72	1.32	RCJ-61223344
10	Red/White/Yellow	CP-1443-ND§	1.51	1.31	1.01	RCJ-31234
	Red/White/Yellow	CP-1464-ND	1.51	1.31	1.01	RCJ-33234
	Red/Green/Blue	CP-1465-ND	1.51	1.31	1.01	RCJ-33265
11	Red/White/Yellow	CP-1445-ND	1.49	1.29	1.00	RCJ-32234
	Red/Green/Blue	CP-1446-ND	1.49	1.29	1.00	RCJ-32265
12	Black	CP-1447-ND	.88	.77	.59	RCP-011
	Red	CP-1448-ND	.88	.77	.59	RCP-012
	White	CP-1449-ND	.88	.77	.59	RCP-013
	Yellow	CP-1450-ND	.88	.77	.59	RCP-014
	Blue	CP-1451-ND	.88	.77	.59	RCP-015
	Green	CP-1452-ND	.88	.77	.59	RCP-016
13	Black	CP-1453-ND	.92	.80	.61	RCP-021
	Red	CP-1454-ND	.92	.80	.61	RCP-022
	White	CP-1455-ND	.92	.80	.61	RCP-023
	Yellow	CP-1456-ND	.92	.80	.61	RCP-024
	Blue	CP-1457-ND	.92	.80	.61	RCP-025
	Green	CP-1458-ND	.92	.80	.61	RCP-026
14	Black	CP-1459-1-ND*	.72	.63	.56	RCJ-011-SMT
	Black	CP-1459-2-ND†		120.00/250		RCJ-011-SMT
	Red	CP-1460-1-ND*	.72	.63	.56	RCJ-012-SMT
	Red	CP-1460-2-ND†		120.00/250		RCJ-012-SMT
	White	CP-1461-1-ND*	.72	.63	.56	RCJ-013-SMT
	White	CP-1461-2-ND†		120.00/250		RCJ-013-SMT
	Yellow	CP-1462-1-ND*	.72	.63	.56	RCJ-014-SMT
	Yellow	CP-1462-2-ND†		120.00/250		RCJ-014-SMT
	Orange	CP-1463-1-ND*	.72	.63	.56	RCJ-017-SMT
	Orange	CP-1463-2-ND†		120.00/250		RCJ-017-SMT

§ Not Recommended for New Design   * Cut Tape   † Tape and Reel

Edgecard Connectors

MATERIALS: • **Insulator:** Thermoplastic Polyester, UL 94V-0 • **Contacts:** Copper, Nickel, Tin Alloy CA-725 or Phosphor Bronze • **Contact Plating:** Gold on Mating Area, Tin-Lead on the Contact Tails, Nickel Underplate • **Colors**: Series 305, 306, 307, 341, 345 and 346 are green; Series 357 and 395 are black. **MECHANICAL:** • **P.C. Card Slot:** Accepts boards .054" (1.37mm) to .070" (1.78mm) thick **ELECTRICAL:** • **Insulation Resistance:** 5000MΩ at 500VDC • **Dielectric Withstanding Voltage:** 1500VAC RMS at sea level • **Current Rating:** 3 Amperes • **Contact Resistance:** 10mΩ, maximum **ENVIRONMENTAL:** • **Operating Temperature:** -65° ~ 125°C

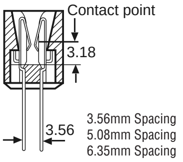

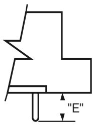

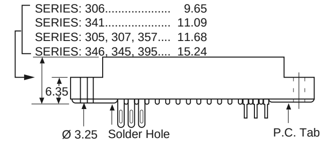
SERIES: 306.................... 9.65
SERIES: 341.................... 11.09
SERIES: 305, 307, 357.... 11.68
SERIES: 346, 345, 395.... 15.24
6.35
Ø 3.25
Solder Hole
P.C. Tab

NOTE:
SERIES 341: 10.16mm for 28/56 pin & up.
SERIES 306: 12.70mm for 28 pin & up.
SERIES 305, 307, 357: 12.70mm for 28/56 pin & up

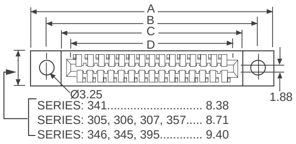
A
B
C
D
Ø3.25
1.88
SERIES: 341............................ 8.38
SERIES: 305, 306, 307, 357..... 8.71
SERIES: 346, 345, 395............ 9.40

Con-tacts	Dimensions (mm) A ±.38	B ±.20	C ±.38	D ±.15	E ±.51	Digi-Key Part No.	Pricing 1	10	100	500	EDAC Part No.
Solder Tail — .140" (3.56mm) Row-to-Row Spacing											
.100" (2.54mm) Contact Centers											
12	37.47	29.85	22.23	17.78	3.18	EDC341122-ND	3.22	28.60	228.80	884.00	341-012-520-202
30	60.33	52.71	45.09	40.64	3.18	EDC341302-ND	4.53	40.15	321.20	1241.00	341-030-520-202
40	73.03	65.41	57.79	53.34	3.18	EDC341402-ND	4.90	43.45	347.60	1343.00	341-040-520-202
50	85.73	78.11	70.49	66.04	3.18	EDC341502-ND	5.33	47.30	378.40	1462.00	341-050-520-202
.156" (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	5.41	EDC305122-ND	2.95	26.13	209.00	807.50	305-012-520-202
20	62.64	54.76	47.50	43.79	5.41	EDC305202-ND	3.44	30.53	244.20	943.50	305-020-520-202
24	70.56	62.69	55.42	51.71	5.41	EDC305242-ND	3.94	34.93	279.40	1079.50	305-024-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC305302-ND	4.28	37.95	303.60	1173.00	305-030-520-202
36	94.34	86.46	79.20	75.49	5.41	EDC305362-ND	4.96	44.00	352.00	1360.00	305-036-520-202
44	110.19	102.31	95.05	91.34	5.41	EDC305442-ND	5.61	49.78	398.20	1538.50	305-044-520-202
Solder Tail — .200" (5.08mm) Row-to-Row Spacing											
.100" (2.54mm) Contact Centers											
20	46.61	40.01	32.00	27.94	4.44	EDC395202-ND	2.48	22.00	176.00	680.00	395-020-520-202
26	54.23	47.63	39.62	35.56	4.44	EDC395262-ND	3.01	26.68	213.40	824.50	395-026-520-202
30	59.31	52.71	44.70	40.64	4.44	EDC395302-ND	3.16	28.05	224.40	867.00	395-030-520-202
34	64.39	57.79	49.78	45.72	4.44	EDC395342-ND	2.64	23.38	187.00	722.50	395-034-520-202
36	66.93	60.33	52.32	48.26	4.44	EDC395362-ND	3.32	29.43	235.40	909.50	395-036-520-202
40	72.01	65.41	57.40	53.34	4.44	EDC395402-ND	3.50	31.08	248.60	960.50	395-040-520-202
44	77.09	70.49	62.48	58.42	4.44	EDC395442-ND	3.69	32.73	261.80	1011.50	395-044-520-202
50	84.71	78.11	70.10	66.04	4.44	EDC395502-ND	4.19	37.13	297.00	1147.50	395-050-520-202
56	92.33	85.73	77.72	73.66	4.44	EDC395562-ND	4.37	38.78	310.20	1198.50	395-056-520-202
60	97.41	90.81	82.80	78.74	4.44	EDC395602-ND	4.53	40.15	321.20	1241.00	395-060-520-202
62	99.95	93.35	85.34	81.28	4.44	EDC395622-ND	4.90	43.45	347.60	1343.00	395-062-520-202
.156" (3.96mm) Contact Centers											
20	62.64	54.76	47.50	43.79	5.41	EDC357202-ND	3.16	28.05	224.40	867.00	357-020-520-202
24	70.56	62.69	55.42	51.71	5.41	EDC357242-ND	3.32	29.43	235.40	909.50	357-024-520-202
30	82.45	74.57	67.31	63.60	5.41	EDC357302-ND	3.35	29.70	237.60	918.00	357-030-520-202
36	94.34	86.46	79.20	75.49	5.41	EDC357362-ND	3.84	34.10	272.80	1054.00	357-036-520-202
44	110.19	102.31	95.05	91.34	5.41	EDC357442-ND	4.53	40.15	321.20	1241.00	357-044-520-202
Solder Tail — .250" (6.35mm) Row-to-Row Spacing											
.125" (3.18mm) Contact Centers											
44	90.42	83.69	77.09	73.03	4.44	EDC346442-ND	3.84	34.10	272.80	1054.00	346-044-520-202
56	109.47	102.74	96.14	92.08	4.44	EDC346562-ND	4.53	40.15	321.20	1241.00	346-056-520-202
72	134.87	128.14	121.54	117.48	4.44	EDC346722-ND	5.36	47.58	380.60	1470.50	346-072-520-202
100	179.32	172.59	165.99	161.93	4.44	EDC346102-ND	7.78	69.03	552.20	2133.50	346-100-520-202
Solder Tail — Center Spacing (Single Row)											
.156" (3.96mm) Contact Centers											
10	62.64	54.76	47.50	43.79	5.41	EDC306102-ND	3.60	31.90	255.20	986.00	306-010-520-102
15	82.45	74.57	67.31	63.60	5.41	EDC306152-ND	4.96	44.00	352.00	1360.00	306-015-520-102
18	94.34	86.46	79.20	75.49	5.41	EDC306182-ND	5.43	48.13	385.00	1487.50	306-018-520-102
22	110.19	102.31	95.05	91.34	5.41	EDC306222-ND	6.60	58.58	468.60	1810.50	306-022-520-102
Solder Eyelets — .140" (3.56mm) Row-to-Row Spacing											
.156" (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	7.16	EDC305120-ND	2.95	26.13	209.00	807.50	305-012-500-202
20	62.64	54.76	47.50	43.79	7.16	EDC305200-ND	3.44	30.53	244.20	943.50	305-020-500-202
24	70.56	62.69	55.42	51.71	7.16	EDC305240-ND	3.94	34.93	279.40	1079.50	305-024-500-202
30	82.45	74.57	67.31	63.60	7.16	EDC305300-ND	4.28	37.95	303.60	1173.00	305-030-500-202
36	94.34	86.46	79.20	75.49	7.16	EDC305360-ND	4.96	44.00	352.00	1360.00	305-036-500-202
44	110.19	102.31	95.05	91.34	7.16	EDC305440-ND	5.61	49.78	398.20	1538.50	305-044-500-202
Solder Eyelets — .200" (5.08mm) Row-to-Row Spacing											
.156" (3.96mm) Contact Centers											
12	46.79	38.91	31.65	27.94	7.16	EDC307120-ND	2.29	20.35	162.80	629.00	307-012-500-202
20	62.64	54.76	47.50	43.79	7.16	EDC307200-ND	3.13	27.78	222.20	858.50	307-020-500-202
24	70.56	62.69	55.42	51.71	7.16	EDC307240-ND	3.29	29.15	233.20	901.00	307-024-500-202
30	82.45	74.57	67.31	63.60	7.16	EDC307300-ND	3.32	29.43	235.40	909.50	307-030-500-202
36	94.34	86.46	79.20	75.49	7.16	EDC307360-ND	3.81	33.83	270.60	1045.50	307-036-500-202
44	110.19	102.31	95.05	91.34	7.16	EDC307440-ND	4.50	39.88	319.00	1232.50	307-044-500-202
Solder Eyelets — Center Spacing (Single Row)											
.156" (3.96mm) Contact Centers											
10	62.64	54.76	47.50	43.79	7.16	EDC306100-ND	3.60	31.90	255.20	986.00	306-010-500-102
15	82.45	74.57	67.31	63.60	7.16	EDC306150-ND	4.96	44.00	352.00	1360.00	306-015-500-102
18	94.34	86.46	79.20	75.49	7.16	EDC306180-ND	5.43	48.13	385.00	1487.50	306-018-500-102
22	110.19	102.31	95.05	91.34	7.16	EDC306220-ND	6.60	58.58	468.60	1810.50	306-022-500-102

Con-tacts	Contact Spacing (mm)	Dim. (mm) C ±.38	D ±.15	Bus Style	Digi-Key Part No.	Pricing 1	10	100	500	EDAC Part No.
Industry Standard Bus Systems										
60	2.54	82.80	78.74	MULTIBUS 1	EDC345602-ND	4.50	39.88	319.00	1232.50	345-060-524-201
120	2.54	159.00	154.94	VERSABUS	EDC345202-ND	6.88	61.05	488.40	1887.00	345-120-520-201
56	3.18	96.14	92.08	STANDARD BUS	EDC346052-ND	4.53	40.15	321.20	1241.00	346-056-520-802
98	2.54	131.06	127.00	IMB PC-AT ISA	EDC395982-ND	1.40	12.38	99.00	382.50	395-098-520-350

NEW! FCI AirMax VS® High Speed Connector System

The AirMax VS® connector is a revolutionary connector system that offers scaleability, flexibility, high density and headroom in performance. "VS" stands for Virtual Shield as this technology requires no interleaving shields. The elimination of these shields results in lower cost, lower weight and offers greater flexibility.

Features: • Shieldless connector system • High pin density per module • Designed to fit HM (hard metric) building practice • No pre-assigned ground pins • Excellent electrical performance • Low weight and low mating forces

Fig. 1

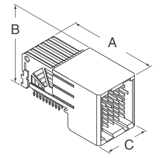

Fig. 2

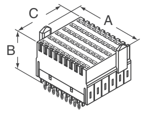

Fig. 3

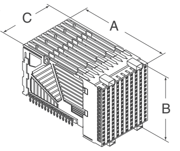

Fig. 4

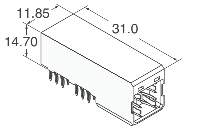

Fig. 5

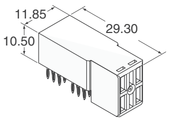

Fig. 6

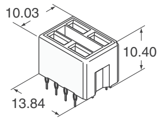

No. of Pos.	No. of Pairs	Pitch Typ. (mm)	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Fig. 1 — Right Angle Headers										
54	3	2.0	1.165 (29.60)	0.451 (11.45)	0.547 (13.90)	609-2104-ND	16.71	11.85	10.90	10039851-101LF
90	3	2.0	1.165 (29.60)	0.451 (11.45)	0.862 (21.90)	609-2092-ND	26.64	19.38	17.56	10034249-101LF
120	4	3.0	1.331 (33.80)	0.600 (15.25)	1.256 (31.90)	609-2097-ND	28.75	21.23	19.51	10035515-101LF
150	5	2.0	1.496 (38.00)	0.781 (19.85)	0.862 (21.90)	609-2089-ND	32.27	24.69	22.59	10025613-101LF
150	5	3.0	1.496 (38.00)	0.781 (19.85)	1.256 (31.90)	609-2099-ND	17.75	12.91	11.70	10037324-101LF
Fig. 2 — Vertical Receptacles										
54	3	2.0	0.610 (15.50)	0.421 (10.70)	0.469 (11.90)	609-2105-ND	15.14	10.41	9.47	10043546-101LF
90	3	2.0	0.610 (15.50)	0.421 (10.70)	0.783 (19.90)	609-2093-ND	22.16	16.06	14.28	10034251-101LF
120	4	3.0	0.744 (18.90)	0.421 (10.70)	1.177 (29.90)	609-2096-ND	24.49	17.82	16.15	10035465-101LF
150	5	2.0	0.941 (23.90)	0.421 (10.70)	0.783 (19.90)	609-2088-ND	30.20	21.97	19.57	10016537-101LF
150	5	3.0	0.941 (23.90)	0.421 (10.70)	1.177 (29.90)	609-2095-ND	28.82	20.96	18.67	10035146-101LF
Fig. 3 — Right Angle Receptacles										
120	4	2.0	1.185 (30.10)	0.585 (14.85)	0.783 (19.90)	609-2098-ND	21.41	15.57	13.87	10035754-101LF
150	5	2.0	1.350 (34.30)	0.766 (19.45)	0.783 (19.90)	609-2094-ND	24.19	17.86	16.42	10034475-101LF
Fig. 4 — Right Angle Power Header										
4	—	2.0	—	—	—	609-2091-ND	15.81	10.87	9.89	10028917-001LF
Fig. 5 — Right Angle Power Receptacle										
4	—	2.0	—	—	—	609-2109-ND	14.53	9.99	9.09	10052620-4444P00LF
Fig. 6 — Vertical Power Receptacle										
4	—	2.0	—	—	—	609-2090-ND	12.68	8.63	7.61	10028916-4555P00LF
Accessories										
7.2 mm Guide Blade - External Thread						609-2100-ND	6.99	4.50	4.00	10037908-101LF
7.2 mm Guide Module Receptacle						609-2101-ND	8.76	5.68	5.19	10037909-101LF
10.7 mm Guide Pin - External Thread						609-2102-ND	7.57	4.74	4.33	10037911-101LF
10.7 mm Guide Module Receptacle						609-2103-ND	9.73	6.48	5.81	10037912-101LF
7.2 mm Guide Blade Co-Planar						609-2106-ND	8.27	5.27	4.82	10044314-101LF
7.2mm Right Angle Guide Socket						609-2107-ND	8.58	5.56	5.09	10045367-101LF
7.2 mm Vertical Guide Pin						609-2108-ND	6.99	4.50	4.00	10045368-101LF

NEW! FCI DIN Connectors

Technical Characteristics: • Insulator Material: Polyester Thermoplacstic UL 94V0 • Contact Material: Copper Alloy • Contact Plating: Active Zone, Gold over Nickel; Termination Zone, Matte Tin over Nickel • Current Rating at 20°C: 1.5A • Maximum Current: 2A • Temperature Range: -55°C ~ 125°C • Contact Resistance: ≤ 20 mΩ • Insulation Resistance: ≥10^6 MΩ

Fig. 1

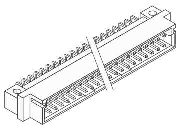

Fig. 2

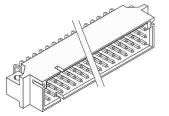

Fig. 3

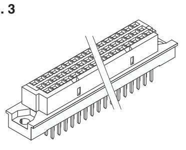

Fig. 4

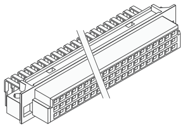

Fig.	No. of Rows	No of Positions	Style	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
Headers								
1	2	64	B	609-2110-ND	4.22	2.62	2.38	86092645113755E1LF
2	3	32	C/2	609-2117-ND	2.26	1.34	1.19	86094327313755E1LF
	3	48	C/2	609-2112-ND	2.60	1.56	1.36	86093487313755E1LF
	3	64	C	609-2119-ND	1.66	.93	.81	86094647113755ELF
	3	96	C	609-2115-ND	3.44	2.12	1.87	86093967113755E1LF
Receptacles								
3	3	32	C/2	609-2118-ND	2.78	1.71	1.53	86094328314755E1LF
	3	48	C/2	609-2113-ND	2.30	1.38	1.21	86093488314755E1LF
	2	64	B	609-2111-ND	4.46	2.87	2.55	86092646114755E1LF
	3	64	C	609-2120-ND	2.09	1.20	1.07	86094648114755V1LF
4	3	48	R/2	609-2114-ND	2.79	1.71	1.53	86093488613755E1LF
	3	64	R	609-2121-ND	1.93	1.14	.99	86094648813755V1LF
	3	96	R	609-2116-ND	2.47	1.49	1.30	86093968813755V1LF

NEW! FCI DDR2 Memory Module Sockets

DDR2 memory module sockets from FCI accept industry-standard FB-DIMM, DIMM or SO-DIMM assemblies. The sockets allow convenient memory expansion in servers, workstations, desktop PCs, mobile PCs and embedded applications in communications and industrial equipment.

Materials: • Housing: High-Temperature Thermoplastic UL94V-O • Contact Base Metal: Copper Alloy • Contact Area Finish: Gold Over Nickel • Solder Area Finish: Tin over Nickel or Gold Flash over Nickel

Specifications: • Initial Contact Resistance: 30mΩ Maximum • Current Rating: 0.5A.Contact Maximum • Durability: 25 Cycles Minimum

Fig. 1

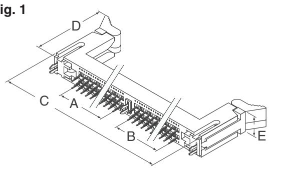

Fig. 2

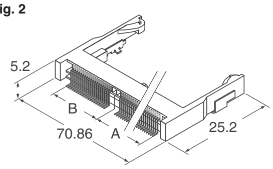

Fig.	Description	Dimensions - Inch (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
240 Position DDR2 DIMM Sockets											
1	Solder Temination with Metal Forklocks	2.480 (63.00)	2.165 (55.00)	5.551(141.00)	1.008 (25.60)	0.299 (7.60)	609-1000-ND 609-1001-ND 609-1002-ND	2.00 1.47 2.00	1.15 .80 1.15	.99 .68 .99	10005639-11107LF 10005639-11109LF 10005639-12207LF
	Pressfit Temination with Alignment Post	2.480 (63.00)	2.165 (55.00)	5.576(141.62)	1.012 (25.70)	0.299 (7.60)	609-1005-ND	3.97	2.47	2.24	10034542-10002LF
240 Position DDR2 FB-DIMM Sockets											
1	Solder Temination with Metal Forklocks and Ergonomic Latch Design	2.638 (67.00)	2.008 (51.00)	5.551 (141.00)	0.906 (23.00)	0.305 (7.75)	609-1003-ND 609-1004-ND	4.90 4.41	3.05 2.74	2.76 2.48	10037402-11107LF 10037402-11109LF
200 Position DDR2 SO-DIMM Sockets											
2	Standard Module Orientation with Locating Peg	1.925 (48.9)	0.555 (14.1)	—	—	—	609-1006-ND	6.18	3.93	3.60	10033853-052FSLF
	Standard Module Orientation	1.925 (48.9)	0.555 (14.1)	—	—	—	609-1007-ND	5.94	3.72	3.40	10033853-152FSLF
	Reverse Module Orientation with Locating Peg	1.937 (49.2)	0.543 (13.8)	—	—	—	609-1008-ND	6.00	3.76	3.43	10033854-052FSLF
	Reverse Module Orientation	1.937 (49.2)	0.543 (13.8)	—	—	—	609-1009-ND	5.94	3.72	3.40	10033854-152FSLF

Sullins Edgecard Connectors

Right Angle

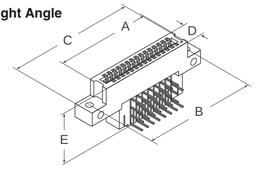

Straight

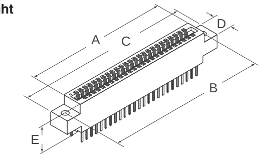

MATERIALS

- **Insulator:** Glass filled thermoplastic polyester PBT (Standard) UL 94V-0 Approved. For 1mm and .050" spacing parts, it will be "PPS" and for all others it will be "PBT"
- **Contacts:** Phosphor Bronze (Standard)
- **Contact Plating:** Gold over Nickel
- **UL File Number:** E64287
- **Termination Plating:** Tin

Fig. 1 Staggered Dip

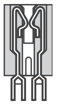

Fig. 2 Wide Dip Solder

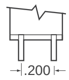

Fig. 3 Right Angle

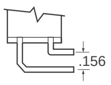

Fig. 4 Eyelet

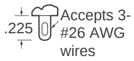

Fig. 5 Narrow Dip Solder

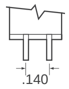

Fig. 6 Surface Mount

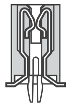

Fig. 7 Right Angle

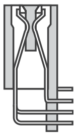

Fig. 8 Card Extender

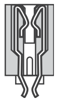

Polarizing Keys

Polarizing Keys not available for product with .050 and 1mm contact spacing.

Description	Digi-Key Part No.	Pricing 10	Pricing 100	Sullins Part No.
Polarizing Key used for Low Profile (.431")	PLA-K1-ND	1.25	8.75	PLA-K1
Polarizing Key used for all other Profiles	PLC-K1-ND	1.25	8.75	PLC-K1

High Profile

Pos./ Cont.	Dimensions (Inches) A	B	C	D	E	Digi-Key Part No.	Pricing 1	10	100	Sullins Part No.
Fig. 1 — Peripheral Component Interconnect (PCI) .050" Contact Centers										
42/49	4.890	5.176	5.490	.370	.300	S09119-578-ND•	16.38	130.00	910.00	RZB91DCHN-S578
Fig. 2 — Solder Tail .100" Contact Centers, RoHS Compliant										
6/12	0.860	1.175	1.435	.370	.610	S3293-ND•‡	2.74	21.75	152.25	EBC06DCWN
10/20	1.260	1.575	1.835	.370	.610	S3299-ND•‡	3.28	26.00	182.00	EBC10DCWN
12/24	1.460	1.775	2.035	.370	.610	S3304-ND•‡	3.47	27.50	192.50	EBC12DCWN
15/30	1.760	2.075	2.335	.370	.610	S3305-ND•‡	3.28	26.00	182.00	EBC15DCWN
18/36	2.060	2.375	2.635	.370	.610	S3310-ND•‡	4.50	35.75	250.25	EBC18DCWN-S371
25/50	2.760	3.075	3.335	.370	.610	S3320-ND•‡	4.66	37.00	259.00	EBC25DCWN
25/50	2.760	3.075	3.335	.370	.610	S3319-ND‡	5.64	44.75	313.25	EBC25DCWH
Fig. 3 — Solder Tail Right Angle .100" Contact Centers, RoHS Compliant										
10/20	1.260	1.575	1.835	.370	.610	S3297-ND‡	4.73	37.50	262.50	EBC10DCAH
49/98	5.160	5.475	5.735	.370	.610	S3328-ND•‡	15.75	125.00	875.00	EBC49DCAN-S605
Wire Wrap .100" Contact Centers										
10/20	1.260	1.575	1.835	.370	.610	S11013-ND‡	3.78	30.00	210.00	EZC10DCMH
Wire Wrap .100" Contact Centers, RoHS Compliant										
10/20	1.260	1.575	1.835	.370	.610	S3298-ND‡	3.94	31.25	218.75	EBC10DCMH
Solder Tail .125" Contact Centers, RoHS Compliant										
28/56	3.785	4.045	4.325	0.330	.431	S3287-ND††	6.14	48.75	341.25	EBA28DRJH
50/100	6.535	6.795	7.055	.370	.610	S3288-ND‡	10.99	87.25	610.75	EBA50DCSD
Solder Tail .156" Contact Centers										
6/12	1.221	1.534	1.784	.370	.610	S5066-ND•†	3.78	30.00	210.00	EZM06DCWN
22/44	3.717	4.030	4.280	.370	.610	S5220-ND†	5.10	40.50	283.50	EZM22DCWH
36/72	5.901	6.214	6.464	.370	.610	S5366-ND•†	6.33	50.25	351.75	EZM36DCWN
43/86	6.993	7.306	7.556	.370	.610	S5437-ND•†	7.59	60.25	421.75	EZM43DCTN
Solder Tail .156" Contact Centers, RoHS Compliant										
6/12	1.221	1.534	1.784	.370	.610	S3332-ND•†	3.87	30.75	215.25	EBM06DCWN
22/44	3.717	4.030	4.280	.370	.610	S3349-ND†	5.80	46.00	322.00	EBM22DCWH
36/72	5.901	6.214	6.464	.370	.610	S3359-ND•†	8.06	64.00	448.00	EBM36DCWN
43/86	6.993	7.306	7.556	.370	.610	S3362-ND•†	9.14	72.50	507.50	EBM43DCTN

Low Profile

Pos./ Cont.	Dimensions (Inches) A	B	C	D	E	Digi-Key Part No.	Pricing 1	10	100	Sullins Part No.
AT Expansion Board Connector, RoHS Compliant										
49/98	PCB Expansion Port Edge Card					S3329-ND•‡	5.61	44.50	311.50	EBC49DCWN-S420
Right Angle — Solder Tail — .156" Spacing										
Fig. 3 — .100" Contact Centers										
6/12	0.875	1.175	1.475	.330	.431	S1061-ND	5.70	45.25	316.75	EZC06DRAS
Fig. 3 — .156" Contact Centers										
12/24	2.156	2.469	2.811	.325	.431	S5121-ND	7.94	63.00	441.00	EZM12DRAS
22/44	3.716	4.029	4.371	.325	.431	S5221-ND	8.57	68.00	476.00	EZM22DRAS
Right Angle — Solder Tail — .156" Spacing, RoHS Compliant										
Fig. 3 — .100" Contact Centers										
5/10	0.775	1.075	1.375	.330	.431	S3289-ND	5.54	44.00	308.00	EBC05DRAS
6/12	0.875	1.175	1.475	.330	.431	S3294-ND	6.27	49.75	348.25	EBC06DRAS
10/20	1.275	1.575	1.875	.330	.431	S3300-ND	6.08	49.50	360.00	EBC10DRAS
15/30	1.775	2.075	2.375	.330	.431	S3306-ND	8.57	68.00	476.00	EBC15DRAS
18/36	2.075	2.375	2.675	.330	.431	S3311-ND	8.73	69.25	484.75	EBC18DRAS
22/44	2.475	2.775	3.075	.330	.431	S3316-ND	14.21	112.75	789.25	EBC22DRAS
Fig. 3 — .156" Contact Centers										
12/24	2.156	2.469	2.811	.325	.431	S3341-ND	5.64	44.75	313.25	EBM12DRAS
22/44	3.716	4.029	4.371	.325	.431	S3350-ND	8.57	68.00	476.00	EBM22DRAS
Eyelet — .007" Thick, .140" Spacing										
Fig. 4 — .156" Contact Centers										
10/20	1.844	2.157	2.499	.325	.431	S5105-ND	4.28	34.00	238.00	EZM10DSEH
15/30	2.624	2.937	3.279	.325	.431	S5155-ND	6.05	48.00	336.00	EZM15DSEH
18/36	3.092	3.405	3.747	.325	.431	S5185-ND	6.08	48.25	337.75	EZM18DSEH
22/44	3.716	4.029	4.371	.325	.431	S5225-ND	7.18	57.00	399.00	EZM22DSEH
Fig. 4 — .100" Contact Centers										
6/12	0.875	1.175	1.475	.330	.431	S1062-ND	3.15	25.00	175.00	EZC06DREH
10/20	1.275	1.575	1.875	.330	.431	S1102-ND	4.19	33.25	232.75	EZC10DREH
15/30	1.775	2.075	2.375	.330	.431	S1152-ND	5.32	42.25	295.75	EZC15DREH
18/36	2.075	2.375	2.675	.330	.431	S1182-ND	5.29	42.00	294.00	EZC18DREH
35/70	3.775	4.075	4.375	.400	.431	S1352-ND	7.78	61.75	432.25	EZC35DREH
36/72	3.875	4.175	4.475	.400	.431	S1362-ND	8.69	69.00	483.00	EZC36DREH
Eyelet — .007" Thick, .140" Spacing, RoHS Compliant										
Fig. 4 — .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S3336-ND	8.22	65.25	456.75	EBM06DSEH
10/20	1.844	2.157	2.499	.325	.431	S3340-ND	4.91	39.00	273.00	EBM10DSEH
15/30	2.624	2.937	3.279	.325	.431	S3345-ND	6.80	54.00	378.00	EBM15DSEH
18/36	3.092	3.405	3.747	.325	.431	S3348-ND	7.34	58.25	407.75	EBM18DSEH
22/44	3.716	4.029	4.371	.325	.431	S3354-ND	7.34	58.25	407.75	EBM22DSEH
Fig. 4 — .100" Contact Centers										
5/10	0.775	1.075	1.375	.330	.431	S3290-ND	3.06	24.25	169.75	EBC05DREH
6/12	0.875	1.175	1.475	.330	.431	S3295-ND	3.62	28.75	201.25	EBC06DREH
10/20	1.275	1.575	1.875	.330	.431	S3301-ND	4.28	34.00	238.00	EBC10DREH
15/30	1.775	2.075	2.375	.330	.431	S3307-ND	6.02	47.75	334.25	EBC15DREH
18/36	2.075	2.375	2.675	.330	.431	S3312-ND	7.75	61.50	430.50	EBC18DREH
22/44	2.475	2.775	3.075	.330	.431	S3317-ND	8.44	67.00	469.00	EBC22DREH
25/50	2.775	3.075	3.375	.330	.431	S3321-ND	6.99	55.50	388.50	EBC25DREH
35/70	3.775	4.075	4.375	.400	.431	S3324-ND	7.97	63.25	442.75	EBC35DREH
36/72	3.875	4.175	4.475	.400	.431	S3325-ND	9.58	76.00	532.00	EBC36DREH
Eyelet — .014" Thick, .140" Spacings										
Fig. 4 — .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S5062-ND	3.84	30.50	213.50	EZM06DREH
10/20	1.844	2.157	2.499	.325	.431	S5102-ND	4.38	34.75	243.25	EZM10DREH
15/30	2.624	2.937	3.279	.325	.431	S5152-ND	6.05	48.00	336.00	EZM15DREH
22/44	3.716	4.029	4.371	.325	.431	S5222-ND	6.36	50.50	353.50	EZM22DREH
36/72	5.900	6.213	6.555	.438	.431	S5362-ND	11.43	90.75	635.25	EZM36DREH
Eyelet — .014" Thick, .140" Spacings, RoHS Compliant										
Fig. 4 — .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S3333-ND	3.75	29.75	208.25	EBM06DREH
10/20	1.844	2.157	2.499	.325	.431	S3337-ND	4.66	37.00	259.00	EBM10DREH
15/30	2.624	2.937	3.279	.325	.431	S3343-ND	7.28	57.75	404.25	EBM15DREH
18/36	3.092	3.405	3.747	.325	.431	S3346-ND	7.91	62.75	439.25	EBM18DREH
22/44	3.716	4.029	4.371	.325	.431	S3351-ND	6.84	54.25	379.75	EBM22DREH
28/56	4.652	4.965	5.307	.438	.431	S3356-ND	9.58	76.00	532.00	EBM28DREH
36/72	5.900	6.213	6.555	.438	.431	S3360-ND	11.43	90.75	635.25	EBM36DREH
Solder Tail — .140" Spacing										
Fig. 5 — .100" Contact Centers										
20/40	2.275	2.575	2.875	.330	.431	S1203-ND	6.30	50.00	350.00	EZC20DRTH
Fig. 5 — .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S5063-ND	5.10	40.50	283.50	EZM06DRTH
10/20	1.844	2.157	2.499	.325	.431	S5103-ND	4.82	38.25	267.75	EZM10DRTH
Solder Tail — .140" Spacing, RoHS Compliant										
Fig. 5 — .100" Contact Centers										
5/10	0.775	1.075	1.375	.330	.431	S3291-ND	2.90	23.00	161.00	EBC05DRTH
10/20	1.275	1.575	1.875	.330	.431	S3302-ND	3.59	28.50	199.50	EBC10DRTH
15/30	1.775	2.075	2.375	.330	.431	S3308-ND	4.19	33.25	232.75	EBC15DRTH
20/40	2.275	2.575	2.875	.330	.431	S3314-ND	7.69	61.00	427.00	EBC20DRTH
Fig. 5 — .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S3334-ND	8.22	65.25	456.75	EBM06DRTH
10/20	1.844	2.157	2.499	.325	.431	S3338-ND	4.91	39.00	273.00	EBM10DRTH
22/44	3.716	4.029	4.371	.325	.431	S3352-ND	5.89	46.75	327.25	EBM22DRTH
28/56	4.652	4.965	5.307	.438	.431	S3357-ND	8.73	69.25	484.75	EBM28DRTH

• No Mounting Ears   †† .165" Post Length   † Card Extender   ‡ Hairpin Bellows   ‡‡ Cantilever   § Metal Boardlocks   Δ Surface Mount

(Continued)

Sullins Edgecard Connectors Low Profile *(Cont.)*

Pos./	Dimensions (Inches)					Digi-Key	Pricing			Sullins
Cont.	A	B	C	D	E	Part No.	1	10	100	Part No.
Solder Tail — .200" Spacing										
Fig. 2 — .100" Contact Centers										
6/12	0.875	1.175	1.475	.330	.431	S1064-ND	2.93	23.25	162.75	EZC06DRXH
36/72	3.875	4.175	4.475	.400	.431	S1364-ND	6.52	51.75	362.25	EZC36DRXH
40/80	4.275	4.575	4.875	.400	.431	S1404-ND	8.88	70.50	493.50	EZC40DRXH
60/120	6.275	6.575	6.875	.400	.431	S1604-ND	9.17	72.75	509.25	EZC60DRXH
Fig. 2 — .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S5064-ND	3.84	30.50	213.50	EZM06DRXH
18/36	3.092	3.405	3.747	.325	.431	S5184-ND	5.48	43.50	304.50	EZM18DRXH
28/56	4.652	4.965	5.307	.438	.431	S5284-ND	6.14	48.75	341.25	EZM28DRXH
Solder Tail — .200" Spacing, RoHS Compliant										
Fig. 2 — .100" Contact Centers										
5/10	0.775	1.075	1.375	.330	.431	S3292-ND	2.58	20.50	143.50	EBC05DRXH
6/12	0.875	1.175	1.475	.330	.431	S3296-ND	2.93	23.25	162.75	EBC06DRXH
10/20	1.275	1.575	1.875	.330	.431	S3303-ND	3.47	27.50	192.50	EBC10DRXH
15/30	1.775	2.075	2.375	.330	.431	S3309-ND	4.06	32.25	225.75	EBC15DRXH
18/36	2.075	2.375	2.675	.330	.431	S3313-ND	4.91	39.00	273.00	EBC18DRXH
20/40	2.275	2.575	2.875	.330	.431	S3315-ND	4.69	37.25	260.75	EBC20DRXH
22/44	2.475	2.775	3.075	.330	.431	S3318-ND	5.89	46.75	327.25	EBC22DRXH
25/50	2.775	3.075	3.375	.330	.431	S3322-ND	5.83	46.25	323.75	EBC25DRXH
30/60	3.275	3.575	3.875	.330	.431	S3323-ND	7.62	60.50	423.50	EBC30DRXH
36/72	3.875	4.175	4.475	.400	.431	S3326-ND	12.03	95.50	668.50	EBC36DRXH
40/80	4.275	4.575	4.875	.400	.431	S3327-ND	8.88	70.50	493.50	EBC40DRXH
50/100	5.275	5.575	5.875	.400	.431	S3330-ND	10.17	80.75	565.25	EBC50DRXH
60/120	6.275	6.575	6.875	.400	.431	S3331-ND	10.93	86.75	607.25	EBC60DRXH
Fig. 2 — .156" Contact Centers										
6/12	1.220	1.533	1.875	.325	.431	S3335-ND	3.28	26.00	182.00	EBM06DRXH
10/20	1.844	2.157	2.499	.325	.431	S3339-ND	3.62	28.75	201.25	EBM10DRXH
12/24	2.156	2.469	2.811	.325	.431	S3342-ND	4.10	32.50	227.50	EBM12DRXH
15/30	2.624	2.937	3.279	.325	.431	S3344-ND	4.41	35.00	245.00	EBM15DRXH
18/36	3.092	3.405	3.747	.325	.431	S3347-ND	5.61	44.50	311.50	EBM18DRXH
22/44	3.716	4.029	4.371	.325	.431	S3353-ND	5.54	44.00	308.00	EBM22DRXH
25/50	4.184	4.497	4.839	.325	.431	S3355-ND	5.86	46.50	325.50	EBM25DRXH
28/56	4.652	4.965	5.307	.438	.431	S3358-ND	7.31	58.00	406.00	EBM28DRXH
36/72	5.900	6.213	6.555	.438	.431	S3361-ND	9.10	72.25	505.75	EBM36DRXH
Staggered Dip										
Fig. 1 — .050" Contact Centers										
13/26	0.890	1.176	1.490	.370	.610	S3120-ND•	11.25	89.25	535.50	RZB13DHHN
15/30	0.990	1.276	1.590	.370	.610	S3121-ND•	11.53	91.50	549.00	RZB15DHHN
20/40	1.240	1.526	1.840	.370	.610	S3122-ND•	12.06	95.75	574.50	RZB20DHHN
22/44	1.340	1.626	1.940	.370	.610	S3123-ND•	12.35	98.00	588.00	RZB22DHHN
25/50	1.490	1.776	2.090	.370	.610	S3124-ND•	12.66	100.50	603.00	RZB25DHHN
30/60	1.740	2.026	2.340	.370	.610	S3125-ND•	13.29	105.50	633.00	RZB30DHHN
34/68	1.940	2.226	2.540	.370	.610	S3126-ND•	13.80	109.50	657.00	RZB34DHHN
35/70	1.990	2.276	2.590	.370	.610	S3127-ND•	13.89	110.25	661.50	RZB35DHHN
45/90	2.490	2.776	3.090	.370	.610	S3129-ND•	15.03	119.25	715.50	RZB45DHHN
50/100	2.740	3.026	3.340	.370	.610	S3130-ND•	15.66	124.25	745.50	RZB50DHHN
60/120	3.240	3.526	3.840	.370	.610	S3131-ND•	16.85	133.75	802.50	RZB60DHHN
64/128	3.440	3.726	4.040	.370	.610	S3132-ND•	17.29	137.25	823.50	RZB64DHHN
75/150	3.990	4.276	4.590	.370	.610	S3133-ND•	18.62	147.75	886.50	RZB75DHHN
80/160	4.240	4.526	4.840	.370	.610	S3134-ND•	19.22	152.50	915.00	RZB80DHHN
85/170	4.490	4.776	5.090	.370	.610	S3135-ND•	19.85	157.50	945.00	RZB85DHHN
95/190	4.990	5.276	5.590	.370	.610	S3136-ND•	20.98	166.50	999.00	RZB95DHHN
100/200	5.240	5.526	5.840	.370	.610	S3137-ND•	21.58	171.25	1027.50	RZB100DHHN
105/210	5.490	5.776	6.090	.370	.610	S3138-ND•	22.18	176.00	1056.00	RZB105DHHN
108/216	5.640	5.926	6.240	.370	.610	S3139-ND•	22.49	178.50	1071.00	RZB108DHHN
110/220	5.740	6.026	6.340	.370	.610	S3140-ND•	22.81	181.00	1086.00	RZB110DHHN
120/240	6.240	6.526	6.840	.370	.610	S3141-ND•	24.03	190.75	1144.50	RZB120DHHN
Fig. 1 — .050" High Speed										
73/219	—	—	4.250	.465	.613	S3282-ND•	20.85	165.50	993.00	RPWB073GKHR-T621
80/240	—	—	4.600	.465	.613	S3283-ND•	26.05	206.75	1240.50	RPWB080GKHR-T621
90/270	—	—	5.100	.465	.613	S3284-ND•	36.92	293.00	1758.00	RPWB090GKHR-T621
100/300	—	—	5.600	.465	.613	S3285-ND•	49.23	390.75	2344.50	RPWB110GKHR-T621
Fig. 1 — 1mm Contact Centers										
5/10	0.507	0.793	1.107	.370	.610	S3149-ND•	13.48	107.00	642.00	RZE05DHHN
10/20	0.704	0.990	1.304	.370	.610	S3150-ND•	14.68	116.50	699.00	RZE10DHHN
15/30	0.901	1.187	1.501	.370	.610	S3151-ND•	15.97	126.75	760.50	RZE15DHHN
20/40	1.098	1.384	1.698	.370	.610	S3152-ND•	17.14	136.00	816.00	RZE20DHHN
25/50	1.295	1.581	1.895	.370	.610	S3153-ND•	18.43	146.25	877.50	RZE25DHHN
30/60	1.492	1.778	2.092	.370	.610	S3154-ND•	19.72	156.50	939.00	RZE30DHHN
35/70	1.689	1.975	2.289	.370	.610	S3155-ND•	21.01	166.75	1000.50	RZE35DHHN
40/80	1.885	2.171	2.485	.370	.610	S3156-ND•	22.30	177.00	1062.00	RZE40DHHN
45/90	2.082	2.368	2.682	.370	.610	S3157-ND•	23.50	186.50	1119.00	RZE45DHHN
50/100	2.279	2.565	2.879	.370	.610	S3158-ND•	24.79	196.75	1180.50	RZE50DHHN
Staggered Dip, RoHS Compliant										
Fig. 1 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.610	S3364-ND•	12.95	102.75	719.25	RBB06DHHN
10/20	0.740	1.026	1.340	.370	.610	S3371-ND•	13.64	108.25	649.50	RBB10DHHN
13/26	0.890	1.176	1.490	.370	.610	S3373-ND•	14.24	113.00	678.00	RBB13DHHN
15/30	0.990	1.276	1.590	.370	.610	S3375-ND•	18.27	145.00	870.00	RBB15DHHN
20/40	1.240	1.526	1.840	.370	.610	S3378-ND•	15.50	123.00	738.00	RBB20DHHN
25/50	1.490	1.776	2.090	.370	.610	S3380-ND•	16.44	130.50	783.00	RBB25DHHN
30/60	1.740	2.026	2.340	.370	.610	S3383-ND•	11.66	92.50	555.00	RBB30DHHN
34/68	1.940	2.226	2.540	.370	.610	S3386-ND•	18.02	143.00	858.00	RBB34DHHN
35/70	1.990	2.276	2.590	.370	.610	S3388-ND•	18.21	144.50	867.00	RBB35DHHN
40/80	2.240	2.526	2.840	.370	.610	S3389-ND•	23.09	183.25	1099.50	RBB40DHHN
45/90	2.490	2.776	3.090	.370	.610	S3391-ND•	20.07	159.25	955.50	RBB45DHHN
60/120	3.240	3.526	3.840	.370	.610	S3394-ND•	22.77	180.75	1084.50	RBB60DHHN
64/128	3.440	3.726	4.040	.370	.610	S3397-ND•	27.72	220.00	1320.00	RBB64DHHN
75/150	3.990	4.276	4.590	.370	.610	S3399-ND•	25.58	203.00	1218.00	RBB75DHHN
80/160	4.240	4.526	4.840	.370	.610	S3400-ND•	26.81	212.75	1276.50	RBB80DHHN
100/200	5.240	5.526	5.840	.370	.610	S3366-ND•	30.15	239.25	1435.50	RBB100DHHN
Surface Mount										
Fig. 6 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.610	S3204-ND§	10.43	82.75	496.50	RZB06DHFR
10/20	0.740	1.026	1.340	.370	.610	S3205-ND§	10.93	86.75	520.50	RZB10DHFR
13/26	0.890	1.176	1.490	.370	.610	S3206-ND§	11.25	89.25	535.50	RZB13DHFR
15/30	0.990	1.276	1.590	.370	.610	S3207-ND§	11.53	91.50	549.00	RZB15DHFR
20/40	1.240	1.526	1.840	.370	.610	S3208-ND§	12.06	95.75	574.50	RZB20DHFR
22/44	1.340	1.626	1.940	.370	.610	S3209-ND§	12.35	98.00	588.00	RZB22DHFR
30/60	1.740	2.026	2.340	.370	.610	S3211-ND§	13.29	105.50	633.00	RZB30DHFR
34/68	1.940	2.226	2.540	.370	.610	S3212-ND§	13.80	109.50	657.00	RZB34DHFR
35/70	1.990	2.276	2.590	.370	.610	S3213-ND§	13.89	110.25	661.50	RZB35DHFR
40/80	2.240	2.526	2.840	.370	.610	S3214-ND§	14.52	115.25	691.50	RZB40DHFR
45/90	2.490	2.776	3.090	.370	.610	S3215-ND§	15.03	119.25	715.50	RZB45DHFR
50/100	2.740	3.026	3.340	.370	.610	S3216-ND§	15.66	124.25	745.50	RZB50DHFR
60/120	3.240	3.526	3.840	.370	.610	S3217-ND§	16.85	133.75	802.50	RZB60DHFR
64/128	3.440	3.726	4.040	.370	.610	S3218-ND§	17.29	137.25	823.50	RZB64DHFR
75/150	3.990	4.276	4.590	.370	.610	S3219-ND§	18.62	147.75	886.50	RZB75DHFR
80/160	4.240	4.526	4.840	.370	.610	S3220-ND§	19.22	152.50	915.00	RZB80DHFR
85/170	4.490	4.776	5.090	.370	.610	S3221-ND§	19.85	157.50	945.00	RZB85DHFR
95/190	4.990	5.276	5.590	.370	.610	S3222-ND§	20.98	166.50	999.00	RZB95DHFR
100/200	5.240	5.526	5.840	.370	.610	S3223-ND§	21.58	171.25	1027.50	RZB100DHFR
105/210	5.490	5.776	6.090	.370	.610	S3224-ND§	22.18	176.00	1056.00	RZB105DHFR
108/216	5.640	5.926	6.240	.370	.610	S3225-ND§	22.49	178.50	1071.00	RZB108DHFR
110/220	5.740	6.026	6.340	.370	.610	S3226-ND§	22.81	181.00	1086.00	RZB110DHFR
120/240	6.240	6.526	6.840	.370	.610	S3227-ND§	24.03	190.75	1144.50	RZB120DHFR
Fig. 6 — 1mm Contact Centers										
5/10	0.507	0.793	1.107	.370	.610	S3232-ND§	13.48	107.00	642.00	RZE05DHFR
10/20	0.704	0.990	1.304	.370	.610	S3233-ND§	14.68	116.50	699.00	RZE10DHFR
15/30	0.901	1.187	1.501	.370	.610	S3234-ND§	15.97	126.75	760.50	RZE15DHFR
20/40	1.098	1.384	1.698	.370	.610	S3235-ND§	17.14	136.00	816.00	RZE20DHFR
25/50	1.295	1.581	1.895	.370	.610	S3236-ND§	18.43	146.25	877.50	RZE25DHFR
30/60	1.492	1.778	2.092	.370	.610	S3237-ND§	19.72	156.50	939.00	RZE30DHFR
35/70	1.689	1.975	2.289	.370	.610	S3238-ND§	21.01	166.75	1000.50	RZE35DHFR
40/80	1.885	2.171	2.485	.370	.610	S3239-ND§	22.30	177.00	1062.00	RZE40DHFR
45/90	2.082	2.368	2.682	.370	.610	S3240-ND§	23.50	186.50	1119.00	RZE45DHFR
50/100	2.279	2.565	2.879	.370	.610	S3241-ND§	24.79	196.75	1180.50	RZE50DHFR
Surface Mount, RoHS Compliant										
Fig. 6 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.610	S3363-ND§	11.94	94.75	568.50	RBB06DHFR
10/20	0.740	1.026	1.340	.370	.610	S3370-ND§	10.93	86.75	520.50	RBB10DHFR
15/30	0.990	1.276	1.590	.370	.610	S3374-ND§	18.02	143.00	858.00	RBB15DHFR
25/50	1.490	1.776	2.090	.370	.610	S3379-ND§	19.69	156.25	937.50	RBB25DHFR
30/60	1.740	2.026	2.340	.370	.610	S3382-ND§	16.22	128.75	772.50	RBB30DHFR
35/70	1.990	2.276	2.590	.370	.610	S3387-ND§	21.26	168.75	1012.50	RBB35DHFR
64/128	3.440	3.726	4.040	.370	.610	S3396-ND§	25.99	206.25	1237.50	RBB64DHFR
105/210	5.490	5.776	6.090	.370	.610	S3367-ND§	32.70	259.50	1557.00	RBB105DHFR
Fig. 6 — 1mm Contact Centers										
5/10	0.507	0.793	1.107	.370	.610	S3402-ND§	19.78	157.00	942.00	RBE05DHFR
Right Angle										
Fig. 7 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.915	S3242-ND	27.56	218.75	1312.50	RZB06DHAS
10/20	0.740	1.026	1.340	.370	.915	S3243-ND	28.60	227.00	1362.00	RZB10DHAS
13/26	0.890	1.176	1.490	.370	.915	S3244-ND	29.39	233.25	1399.50	RZB13DHAS
15/30	0.990	1.276	1.590	.370	.915	S3245-ND	30.05	238.50	1431.00	RZB15DHAS
20/40	1.240	1.526	1.840	.370	.915	S3246-ND	31.34	248.75	1492.50	RZB20DHAS
22/44	1.340	1.626	1.940	.370	.915	S3247-ND	32.00	254.00	1524.00	RZB22DHAS
25/50	1.490	1.776	2.090	.370	.915	S3248-ND	32.79	260.25	1561.50	RZB25DHAS
30/60	1.740	2.026	2.340	.370	.915	S3249-ND	34.21	271.50	1629.00	RZB30DHAS
34/68	1.940	2.226	2.540	.370	.915	S3250-ND	35.37	280.75	1684.50	RZB34DHAS
35/70	1.990	2.276	2.590	.370	.915	S3251-ND	35.63	282.75	1696.50	RZB35DHAS
40/80	2.240	2.526	2.840	.370	.915	S3252-ND	37.08	294.25	1765.50	RZB40DHAS
45/90	2.490	2.776	3.090	.370	.915	S3253-ND	38.40	304.75	1828.50	RZB45DHAS
50/100	2.740	3.026	3.340	.370	.915	S3254-ND	39.82	316.00	1896.00	RZB50DHAS
60/120	3.240	3.526	3.840	.370	.915	S3255-ND	42.68	338.75	2032.50	RZB60DHAS
64/128	3.440	3.726	4.040	.370	.915	S3256-ND	43.72	347.00	2082.00	RZB64DHAS
75/150	3.990	4.276	4.590	.370	.915	S3257-ND	46.84	371.75	2230.50	RZB75DHAS
80/160	4.240	4.526	4.840	.370	.915	S3258-ND	48.26	383.00	2298.00	RZB80DHAS
85/170	4.490	4.776	5.090	.370	.915	S3259-ND	49.71	394.50	2367.00	RZB85DHAS
95/190	4.990	5.276	5.590	.370	.915	S3260-ND	52.45	416.25	2497.50	RZB95DHAS
100/200	5.240	5.526	5.840	.370	.915	S3261-ND	53.87	427.50	2565.00	RZB100DHAS
105/210	5.490	5.776	6.090	.370	.915	S3262-ND	55.31	439.00	2634.00	RZB105DHAS
108/216	5.640	5.926	6.240	.370	.915	S3263-ND	56.20	446.00	2676.00	RZB108DHAS
110/220	5.740	6.026	6.340	.370	.915	S3264-ND	56.73	450.25	2701.50	RZB110DHAS
120/240	6.240	6.526	6.840	.370	.915	S3265-ND•	59.60	473.00	2838.00	RZB120DHAN
Fig. 7 — 1mm Contact Centers										
5/10	0.157	0.793	1.107	.370	.360	S3272-ND	48.38	384.00	2304.00	RZE05DHAS
10/20	0.354	0.990	1.304	.370	.360	S3273-ND	49.80	395.25	2371.50	RZE10DHAS
15/30	0.551	1.187	1.501	.370	.360	S3274-ND	51.35	407.50	2445.00	RZE15DHAS
20/40	0.748	1.384	1.698	.370	.360	S3275-ND	52.76	418.75	2512.50	RZE20DHAS
25/50	0.945	1.581	1.895	.370	.360	S3276-ND	54.31	431.00	2586.00	RZE25DHAS
30/60	1.142	1.778	2.092	.370	.360	S3277-ND	55.85	443.25	2659.50	RZE30DHAS
35/70	1.465	1.975	2.289	.370	.360	S3278-ND	57.42	455.75	2734.50	RZE35DHAS
40/80	1.535	2.171	2.485	.370	.360	S3279-ND	58.97	468.00	2808.00	RZE40DHAS
45/90	1.732	2.368	2.682	.370	.360	S3280-ND	60.39	479.25	2875.50	RZE45DHAS
50/100	1.929	2.565	2.879	.370	.360	S3281-ND	61.93	491.50	2949.00	RZE50DHAS
Right Angle, RoHS Compliant										
Fig. 7 — .050" Contact Centers										
10/20	0.740	1.026	1.340	.370	.915	S3369-ND	22.93	182.00	1092.00	RBB10DHAS
20/40	1.240	1.526	1.840	.370	.915	S3377-ND	30.68	243.50	1461.00	RBB20DHAS
34/68	1.940	2.226	2.540	.370	.915	S3385-ND	31.12	247.00	1482.00	RBB34DHAS

• No Mounting Ears †† .165" Post Length † Card Extender ‡ Hairpin Bellows ‡‡ Cantilever § Metal Boardlocks Δ Surface Mount

(Continued)

Sullins Edgecard Connectors Low Profile *(Cont.)*

Pos./	Dimensions (Inches)					Digi-Key	Pricing			Sullins
Cont.	A	B	C	D	E	Part No.	1	10	100	Part No.
Extender Card Bend										
Fig. 8 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.610	S3164-ND•†	9.83	78.00	468.00	RZB06DHRN
10/20	0.740	1.026	1.340	.370	.610	S3165-ND•†	10.33	82.00	492.00	RZB10DHRN
13/26	0.890	1.176	1.490	.370	.610	S3166-ND•†	10.65	84.50	507.00	RZB13DHRN
15/30	0.990	1.276	1.590	.370	.610	S3167-ND•†	10.96	87.00	522.00	RZB15DHRN
20/40	1.240	1.526	1.840	.370	.610	S3168-ND•†	11.47	91.00	546.00	RZB20DHRN
22/44	1.340	1.626	1.940	.370	.610	S3169-ND•†	11.78	93.50	561.00	RZB22DHRN
30/60	1.740	2.026	2.340	.370	.610	S3171-ND•†	12.69	100.75	604.50	RZB30DHRN
34/68	1.940	2.226	2.540	.370	.610	S3172-ND•†	13.20	104.75	628.50	RZB34DHRN
35/70	1.990	2.276	2.590	.370	.610	S3173-ND•†	13.32	105.75	634.50	RZB35DHRN
40/80	2.240	2.526	2.840	.370	.610	S3174-ND•†	13.92	110.50	663.00	RZB40DHRN
45/90	2.490	2.776	3.090	.370	.610	S3175-ND•†	14.46	114.75	688.50	RZB45DHRN
50/100	2.740	3.026	3.340	.370	.610	S3176-ND•†	15.06	119.50	717.00	RZB50DHRN
60/120	3.240	3.526	3.840	.370	.610	S3177-ND•†	16.29	129.25	775.50	RZB60DHRN
64/128	3.440	3.726	4.040	.370	.610	S3178-ND•†	16.70	132.50	795.00	RZB64DHRN
75/150	3.990	4.276	4.590	.370	.610	S3179-ND•†	18.02	143.00	858.00	RZB75DHRN
80/160	4.240	4.526	4.840	.370	.610	S3180-ND•†	18.65	148.00	888.00	RZB80DHRN
85/170	4.490	4.776	5.090	.370	.610	S3181-ND•†	19.25	152.75	916.50	RZB85DHRN
95/190	4.990	5.276	5.590	.370	.610	S3182-ND•†	20.38	161.75	970.50	RZB95DHRN
100/200	5.240	5.526	5.840	.370	.610	S3183-ND•†	20.98	166.50	999.00	RZB100DHRN
105/210	5.490	5.776	6.090	.370	.610	S3184-ND•†	21.61	171.50	1029.00	RZB105DHRN
108/216	5.640	5.926	6.240	.370	.610	S3185-ND•†	21.92	174.00	1044.00	RZB108DHRN
110/220	5.740	6.026	6.340	.370	.610	S3186-ND•†	22.21	176.25	1057.50	RZB110DHRN
120/240	6.240	6.526	6.840	.370	.610	S3187-ND•†	23.44	186.00	1116.00	RZB120DHRN
Fig. 8 — 1mm Contact Centers										
5/10	0.507	0.793	1.107	.370	.610	S3193-ND•†	12.73	101.00	606.00	RZE05DHRN
10/20	0.704	0.990	1.304	.370	.610	S3194-ND•†	13.89	110.25	661.50	RZE10DHRN
15/30	0.901	1.187	1.501	.370	.610	S3195-ND•†	15.18	120.50	723.00	RZE15DHRN
20/40	1.098	1.384	1.698	.370	.610	S3196-ND•†	16.38	130.00	780.00	RZE20DHRN
25/50	1.295	1.581	1.895	.370	.610	S3197-ND•†	17.67	140.25	841.50	RZE25DHRN
30/60	1.492	1.778	2.092	.370	.610	S3198-ND•†	18.96	150.50	903.00	RZE30DHRN
35/70	1.689	1.975	2.289	.370	.610	S3199-ND•†	20.25	160.75	964.50	RZE35DHRN
40/80	1.885	2.171	2.485	.370	.610	S3200-ND•†	21.55	171.00	1026.00	RZE40DHRN
45/90	2.082	2.368	2.682	.370	.610	S3201-ND•†	22.71	180.25	1081.50	RZE45DHRN
50/100	2.279	2.565	2.879	.370	.610	S3202-ND•†	24.03	190.75	1144.50	RZE50DHRN
Extender Card Bend, RoHS Compliant										
Fig. 8 — .050" Contact Centers										
6/12	0.540	0.826	1.140	.370	.610	S3365-ND•†	12.32	97.75	586.50	RBB06DHRN
10/20	0.740	1.026	1.340	.370	.610	S3372-ND•†	12.98	103.00	618.00	RBB10DHRN
15/30	0.990	1.276	1.590	.370	.610	S3376-ND•†	13.92	110.50	663.00	RBB15DHRN
25/50	1.490	1.776	2.090	.370	.610	S3381-ND•†	15.78	125.25	751.50	RBB25DHRN
30/60	1.740	2.026	2.340	.370	.610	S3384-ND•†	16.60	131.75	790.50	RBB30DHRN
40/80	2.240	2.526	2.840	.370	.610	S3390-ND•†	13.92	110.50	663.00	RBB40DHRN
64/128	3.440	3.726	4.040	.370	.610	S3398-ND•†	22.87	181.50	1089.00	RBB64DHRN
85/170	4.490	4.776	5.090	.370	.610	S3401-ND•†	26.52	210.50	1263.00	RBB85DHRN
105/210	5.490	5.776	6.090	.370	.610	S3368-ND•†	30.43	241.50	1449.00	RBB105DHRN
Fig. 8 — 1mm Contact Centers										
50/100	2.279	2.565	2.879	.370	.610	S3403-ND•†	24.19	192.00	1152.00	RBE50DHRN
Peripheral Component Interconnect (PCI) Dual .050" Contact Centers										
60/120	3.340	—	—	.350	.610	S3142-ND•†‡‡	.76	6.05	36.30	TRWB060DKHN-T578
60/120	3.340	3.465	3.715	.350	.551	S3191-ND†‡‡	4.38	34.75	208.50	TRWB060DKRQ-T578
60/120	3.340	—	—	.350	.610	S3143-ND•‡‡§	1.01	8.00	48.00	TRWB060DKHN-T20
60/120	3.340	—	—	.350	.610	S3144-ND•‡‡§	1.82	14.45	86.70	TRXB060DKHN-T20
60/120	3.340	—	—	.350	.559	S3269-ND•‡‡	5.56	44.10	264.60	TRWB060DKAN-T621
60/120	3.340	—	—	.350	.610	S3286-ND•‡‡Δ	4.28	34.00	204.00	RPWB060DKFN-T578
92/184	5.040	5.326	5.640	.370	.610	S3267-ND‡	51.85	411.50	2469.00	RZB92DHAS-S250
92/184	5.040	—	—	.370	.610	S3229-ND•‡§Δ	20.66	164.00	984.00	RZB92DHFR-S250
92/184	5.040	—	—	.350	.559	S3270-ND•‡‡	6.77	53.75	322.50	TRWB092DKAN-T250
92/184	5.040	5.326	5.640	.370	.610	S3268-ND‡	51.85	411.50	2469.00	RZB92DHAS-S329
92/184	5.040	—	—	.370	.610	S3230-ND•‡§Δ	20.66	164.00	984.00	RZB92DHFR-S329
92/184	5.040	—	—	.350	.559	S3271-ND•‡‡	6.77	53.75	322.50	TRWB092DKAN-T329
92/184	5.040	—	—	.370	.610	S3189-ND•†‡	20.07	159.25	955.50	RZB92DHRN-S378
92/184	5.040	—	—	.350	.610	S3145-ND•‡‡	5.99	47.50	285.00	TRWB092DKHN-T378
92/184	5.040	—	—	.350	.551	S3192-ND•†‡‡	7.28	57.75	346.50	RPWB092DKRQ-T378
92/184	5.040	—	—	.350	.610	S3146-ND•‡‡§	3.15	25.00	150.00	TRWB092DKHN-T20
92/184	5.040	—	—	.370	.610	S3190-ND•†‡	20.07	159.25	955.50	RZB92DHRN-S330
92/184	5.040	—	—	.350	.610	S3147-ND•‡‡	5.99	47.50	285.00	TRWB092DKHN-T330
92/184	5.040	—	—	.350	.610	S3148-ND•‡‡§	3.31	26.25	157.50	TRWB092DKHN-T26
AGP Connector										
66/132	(1.0mm AGP w/ locking feature)					S3159-ND	3.40	27.00	162.00	TPWE066DKHN-T6
90/180	(u-AGP-PRO)					S3161-ND	2.27	18.00	108.00	TPWE090DKHN-TAGP
66/132	(1.0mm AGP Edge Card)					S3203-ND†	6.11	48.50	291.00	LPWE066DKRN-TAGP
66/132	(Universal AGP)					S3160-ND	1.23	9.73	58.35	TPWE066DKHN-TUGP
Slot 1 Connector										
121/242	(Slot 1 Pin connector)					S3162-ND	2.90	23.00	138.00	TPWE121DKHN-T621
RoHS Compliant ***Peripheral Component Interconnect (PCI) Dual .050" Contact Centers***										
60/120	3.240	3.526	3.840	.370	.610	S3392-ND	42.87	340.25	2041.50	RBB60DHAS-S621
60/120	3.240	3.526	3.840	.370	.610	S3393-ND§	25.33	201.00	1206.00	RBB60DHFR-S621
60/120	3.240	3.526	3.840	.370	.610	S3395-ND•†	19.66	156.00	936.00	RBB60DHRN-S578

• No Mounting Ears   †† .165" Post Length   † Card Extender   ‡ Hairpin Bellows   ‡‡ Cantilever   § Metal Boardlocks   Δ Surface Mount

molex Waldom ELECTRONICS Power Edge™ Connector

RoHS COMPLIANT

Features:

- End-to-end stackable for card edge requirements up to 203.2mm (8") in length
- Foot print compatible and end-to-end stackable with competiting connectors.

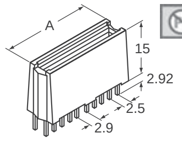

Specifications:

- Segment Spacing: 12.90mm (.508")
- Current (max): 40A @ 50V
- Voltage (max): 250V
- Flammability: UL 94V-0
- Temperature Range: -40°C ~ 105°C
- UL File Number: E29179

No. of Contacts	Segments	Dim. (mm) A	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
4	2	26.8	WM19100-ND	5.09	4.67	3.74	45719-0007
6	3	39.7	WM19101-ND	7.63	7.00	5.60	45719-0008
8	4	52.6	WM19102-ND	10.18	9.33	7.47	45719-0009

tyco Electronics AMP Card Edge Connectors

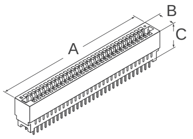

Material and Finish:

- Housing: Black glass-filled polyester, 94V-0 rated
- Contacts: Phosphor bronze, duplex
- Plating A: 0.00076 (.000030) gold in contact area, tin on posts, with entire contact nickel underplated

No. of	Dimensions (Inches)			Distance Between	Digi-Key	Price Each			AMP
Pos.	A	B	C	First and Last Position	Part No.	1	10	100	Part No.
.100 Centerline, Vertical Solder Posts, Without Mounting Ears									
30	3.260	.368	.61	2.900	A29114-ND	8.25	7.84	5.50	530843-7
.100 Centerline, Vertical Solder Posts, without Mounting Ears/RoHS Compliant									
10	0.260	.368	.61	0.900	A31722-ND	3.09	2.94	2.06	5-5530843-0
15	1.760	.368	.61	1.400	A31715-ND	4.08	3.88	2.72	5530843-2
18	2.060	.368	.61	1.700	A31716-ND	1.26	1.20	.84	5530843-3
20	2.260	.368	.61	1.900	A31723-ND	5.01	4.76	3.34	5-5530843-4
22	2.460	.368	.61	2.100	A31717-ND	5.13	4.88	3.42	5530843-4
25	2.760	.368	.61	2.400	A31718-ND	1.65	1.57	1.10	5530843-5
28	3.060	.368	.61	2.700	A31719-ND	6.90	6.56	4.60	5530843-6
30	3.260	.368	.61	2.900	A31720-ND	6.87	6.53	4.58	5530843-7
31	3.360	.368	.61	3.000	A31724-ND	2.01	1.92	1.35	6-5530843-5

AVX PCI Express Card Edge Connectors

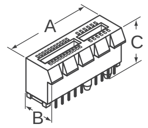

RoHS COMPLIANT

Vertical card edge connectors specifically designed to implement PCI Express technology for desktop PCs and server systems. All connectors support PCI Express signal and power requirements as well as the interface between system board and the add on card specification.

Technical Specifications:

- **Current Rating:** 1.1 Ampere, maximum
- **Contact Resistance:** 30 milliohm, maximum
- **Contact Material:** Phosphor Bronze
- **Contact Plating:** Contact Area: 15µm AuNi; Terminal Area: Tin (Lead Free)
- **Insulator Material:** 30% Glass Filled Nylon
- **Insulation Resistance:** 1000 Megaohms min. at 50V AC

No. of	Dimensions (mm)			Tail	Digi-Key	Price Each			AVX
Contacts	A	B	C	Length (mm)	Part No.	1	10	100	Part No.
36	25.00	8.70	15.50	2.3	478-2839-ND	1.72	1.40	.99	206325036001006
				3	478-2840-ND	1.72	1.40	.99	206325036002006
64	39.00	8.70	15.50	2.3	478-2841-ND	2.21	1.81	1.27	206325064001006
				3	478-2842-ND	2.21	1.81	1.27	206325064002006
98	56.00	8.70	15.50	2.3	478-2843-ND	2.77	2.26	1.59	206325098001006
				3	478-2844-ND	2.77	2.26	1.59	206325098002006
164	89.00	8.70	15.50	2.3	478-2845-ND	4.48	3.65	2.56	206325164001006
				3	478-2846-ND	4.48	3.65	2.56	206325164002006
				3	478-2847-ND†	4.48	3.65	2.56	206325164002016

† Latch

NEW! FCI High Definition Multimedia Interface

RoHS COMPLIANT

Features:

- Meets HDMI spec1.1
- Metal shield for better EMI
- Speed to 5Gpbs Uncompressed Single Transmit Rate
- Backward Compatible with DVI
- Low Impedance Mismatch
- Simple and Flexible Design
- Type A

Fig. 1

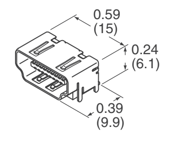

Fig. 2

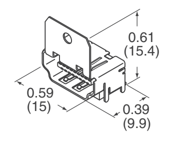

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	FCI Part No.
1	Receptacle SMT Without Flange	609-1010-1-ND 609-1010-2-ND	3.38 3054.52/2,000	2.08	1.86	10029449-001LF 10029449-001LF
2	Receptacle SMT With Flange	609-1011-ND	3.52	2.16	1.94	10029449-002LF

HIROSE
ELECTRIC
CO.,LTD.

DIN Connectors

Fig. 1

2-Row, Plug, Right-Angle Type

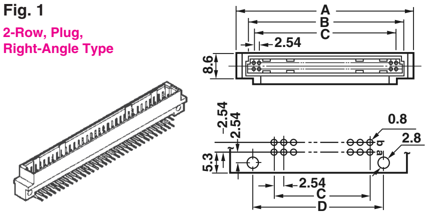

Fig. 2

2-Row, Plug, Straight Type

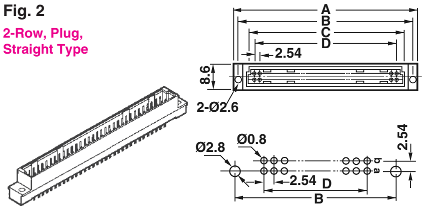

Fig. 3

2-Row, Socket, Right-Angle Type

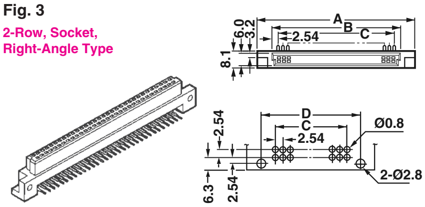

Fig. 4

2-Row, Socket, Straight Type

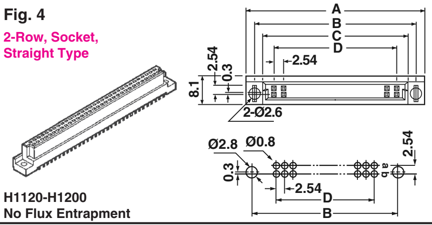

H1120-H1200
No Flux Entrapment

Fig. 5

3-Row, Plug, Right-Angle Type

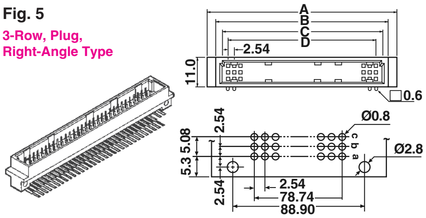

Fig. 6

3-Row, Plug, Straight Type

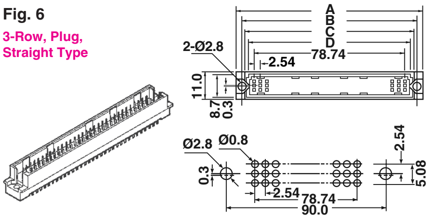

Fig. 7

3-Row, Socket, Right-Angle Type

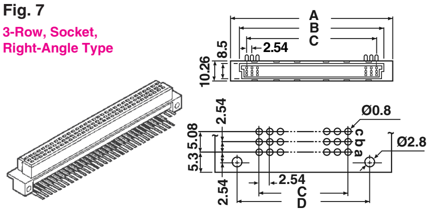

Fig. 8

3-Row, Socket, Straight Type

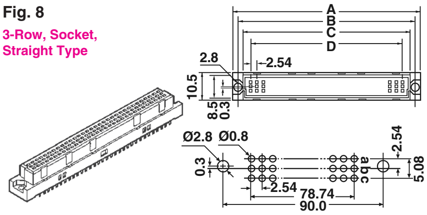

Fig.	No. of Rows	No. of Pins	Type	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Hirose Part No.
1	2	20	Plug-Right Angle	38.12	29.47	22.86	33.02	H1020-ND	3.54	29.28	219.60	823.50	1586.00	PCN10-20P-2.54DS
		32	Plug-Right Angle	53.26	44.71	38.10	48.26	H1032-ND	4.70	38.88	291.60	1093.50	2106.00	PCN10-32P-2.54DS
		44	Plug-Right Angle	68.60	59.95	53.34	63.50	H1044-ND	5.68	47.04	352.80	1323.00	2548.00	PCN10-44P-2.54DS
		50	Plug-Right Angle	76.22	67.57	60.96	71.12	H1050-ND	6.41	53.04	397.80	1491.75	2873.00	PCN10-50P-2.54DS
		64	Plug-Right Angle	94.00	85.35	78.74	88.90	H1064-ND	7.11	58.80	441.00	1653.75	3185.00	PCN10-64P-2.54DS
		90	Plug-Right Angle	127.02	118.37	111.76	121.92	H1090-ND	8.84	74.80	561.00	2261.00	4335.00	PCN10-90P-2.54DS
		100	Plug-Right Angle	139.72	131.07	124.46	134.62	H1100-ND	3.05	25.20	189.00	708.75	1365.00	PCN10-100P-2.54DS
2	2	20	Plug-Straight	43.3	38.1	29.47	22.86	H2020-ND	4.15	34.32	257.40	965.25	1859.00	PCN10-20P-2.54DSA
		32	Plug-Straight	58.34	53.34	44.71	38.10	H2032-ND	4.90	40.56	304.20	1140.75	2197.00	PCN10-32P-2.54DSA
		44	Plug-Straight	73.58	68.10	59.95	53.34	H2044-ND	6.03	49.92	374.40	1404.00	2704.00	PCN10-44P-2.54DSA
		50	Plug-Straight	81.40	76.20	67.57	60.96	H2050-ND	6.96	57.60	432.00	1620.00	3120.00	PCN10-50P-2.54DSA
		64	Plug-Straight	99.18	93.98	85.34	78.74	H2064-ND	7.49	63.36	475.20	1915.20	3672.00	PCN10-64P-2.54DSA
		90	Plug-Straight	132.20	127.00	118.37	111.76	H2090-ND	8.81	76.60	612.80	2441.63	4691.75	PCN10-90P-2.54DSA
3	2	20	Socket-Right Angle	43.10	29.12	22.86	38.10	H2120-ND	6.24	51.60	387.00	1451.25	2795.00	PCN10C-20S-2.54DS
		32	Socket-Right Angle	58.34	44.36	38.10	53.34	H2132-ND	6.70	55.44	415.80	1559.25	3003.00	PCN10C-32S-2.54DS
		44	Socket-Right Angle	73.58	59.60	53.34	68.58	H2144-ND	7.64	64.68	485.10	1955.10	3748.50	PCN10C-44S-2.54DS
		50	Socket-Right Angle	81.20	67.22	60.96	76.20	H2150-ND	8.27	69.96	524.70	2114.70	4054.50	PCN10C-50S-2.54DS
		64	Socket-Right Angle	98.98	85.00	78.74	93.98	H2164-ND	8.60	74.80	598.40	2384.25	4581.50	PCN10C-64S-2.54DS
		90	Socket-Right Angle	132.00	118.02	111.76	127.00	H2190-ND	10.50	97.13	813.75	3346.88	6431.25	PCN10C-90S-2.54DS
		100	Socket-Right Angle	144.70	130.72	124.46	139.70	H2200-ND	11.30	104.53	875.75	3601.88	6921.25	PCN10C-100S-2.54DS
3	2	20	Socket-Right Angle	43.10	29.12	22.86	38.10	H3020-ND	2.60	21.60	160.00	600.00	1064.00	PCN13-20S-2.54DS
		32	Socket-Right Angle	58.34	44.36	38.10	53.43	H3032-ND	3.15	26.19	194.00	727.50	1290.10	PCN13-32S-2.54DS
		44	Socket-Right Angle	73.58	59.60	53.34	68.58	H3044-ND	3.36	27.84	208.80	783.00	1508.00	PCN13-44S-2.54DS
		50	Socket-Right Angle	81.20	67.22	60.96	76.20	H3050-ND	4.12	34.08	255.60	958.50	1846.00	PCN13-50S-2.54DS
		64	Socket-Right Angle	98.98	85.00	78.74	93.98	H3064-ND	4.21	34.80	261.00	978.75	1885.00	PCN13-64S-2.54DS
		90	Socket-Right Angle	132.00	118.02	111.76	127.00	H3090-ND	5.37	44.40	333.00	1248.75	2405.00	PCN13-90S-2.54DS
		100	Socket-Right Angle	144.70	130.72	124.46	139.70	H3100-ND	8.11	68.64	514.80	2074.80	3978.00	PCN13-100S-2.54DS
4	2	20	Socket-Straight	39.12	34.12	29.12	22.86	H1120-ND	5.31	43.92	329.40	1235.25	2379.00	PCN10C-20S-2.54DSA
		32	Socket-Straight	54.36	49.36	44.36	38.10	H1132-ND	6.96	57.60	432.00	1620.00	3120.00	PCN10C-32S-2.54DSA
		44	Socket-Straight	69.60	64.60	59.60	53.34	H1144-ND	8.48	71.72	537.90	2167.90	4156.50	PCN10C-44S-2.54DSA
		50	Socket-Straight	77.22	72.22	67.22	60.96	H1150-ND	8.89	75.24	564.30	2274.30	4360.50	PCN10C-50S-2.54DSA
		64	Socket-Straight	95.00	90.00	85.00	78.74	H1164-ND	9.43	82.00	656.00	2613.75	5022.50	PCN10C-64S-2.54DSA
		90	Socket-Straight	128.02	123.02	118.02	111.76	H1190-ND	10.82	100.09	838.55	3448.88	6627.25	PCN10C-90S-2.54DSA
4	2	32	Socket-Straight-W/W	54.36	49.36	43.36	38.10	H4232-ND	8.89	75.24	564.30	2274.30	4360.50	PCN10-32S-2.54WB
		50	Socket-Straight-W/W	77.22	72.22	67.22	60.96	H4250-ND	10.18	94.17	788.95	3244.88	6235.25	PCN10-50S-2.54WB
		64	Socket-Straight-W/W	95.00	99.00	85.00	78.74	H4264-ND	12.24	113.22	948.60	3901.50	7497.00	PCN10-64S-2.54WB
		90	Socket-Straight-W/W	128.02	123.00	118.00	111.76	H4290-ND	14.47	136.16	1191.40	5425.13	10424.75	PCN10-90S-2.54WB
		20	Socket-Straight	39.12	34.12	29.12	22.86	H4020-ND	1.92	15.93	118.00	442.50	784.70	PCN13-20S-2.54DSA
		32	Socket-Straight	54.36	49.36	44.36	38.10	H4032-ND	2.28	18.90	140.00	525.00	931.00	PCN13-32S-2.54DSA
		44	Socket-Straight	69.60	64.60	59.60	53.34	H4044-ND	2.67	22.14	164.00	615.00	1090.60	PCN13-44S-2.54DSA
		50	Socket-Straight	77.22	72.22	67.22	60.96	H4050-ND	2.93	24.30	180.00	675.00	1197.00	PCN13-50S-2.54DSA
		64	Socket-Straight	95.00	90.00	85.00	78.74	H4064-ND	2.99	24.72	185.40	695.25	1339.00	PCN13-64S-2.54DSA
		90	Socket-Straight	128.02	123.02	118.02	111.76	H4090-ND	7.07	59.84	448.80	1808.80	3468.00	PCN13-90S-2.54DSA
		100	Socket-Straight	140.72	135.72	130.72	124.46	H4100-ND	4.15	34.32	257.40	965.25	1859.00	PCN13-100S-2.54DSA
4	2	64	Socket-Straight	95.00	90.00	85.00	78.74	H8164-ND	9.15	79.60	636.80	2537.25	4875.50	PCN10MC-64S-2.54DSA
		100	Socket-Straight	140.72	135.72	130.72	124.46	H8200-ND	11.14	103.05	863.35	3550.88	6823.25	PCN10MC-100S-2.54DSA
1	2	64	Plug-Right Angle	94.00	85.35	78.74	88.90	H5164-ND	8.68	73.48	551.10	2221.10	4258.50	PCN10MC-64P-2.54DS
		100	Plug-Right Angle	139.72	131.07	124.46	134.62	H5200-ND	10.97	95.40	763.20	3040.88	5843.25	PCN10MC-100P-2.54DS
5	3	64*	Plug-Right Angle	94.00	88.00	85.25	78.74	H5064-ND	7.57	64.02	480.15	1935.15	3710.25	PCN10-64ACP-2.54DS
		96	Plug-Right Angle	94.00	88.00	85.25	78.74	H5096-ND	8.37	72.80	582.40	2320.50	4459.00	PCN10-96P-2.54DS
		96	Plug-Right Angle	94.00	88.00	85.25	78.74	H5196-ND	9.52	82.80	662.40	2639.25	5071.50	PCN10MC-96P-2.54DS
6	3	64*	Plug-Straight	95.00	90.00	88.00	85.25	H6064-ND	8.68	73.48	551.10	2221.10	4258.50	PCN10-64ACP-2.54DSA
		96	Plug-Straight	95.00	90.00	88.00	85.25	H6096-ND	10.24	89.00	712.00	2836.88	5451.25	PCN10-96P-2.54DSA
7	3	64*	Socket-Right Angle	94.00	85.00	78.74	88.90	H7064-ND	4.50	37.20	279.00	1046.25	2015.00	PCN13-64ACS-2.54DS
		96	Socket-Right Angle	94.00	85.00	78.74	88.90	H7096-ND	6.09	50.40	378.00	1417.50	2730.00	PCN13-96S-2.54DS
8	3	96	Socket-Straight	95.00	90.00	85.00	78.74	H8196-ND	10.97	95.40	763.20	3040.88	5843.25	PCN10MC-96S-2.54DSA
		64*	Socket-Straight	95.00	90.00	85.00	78.74	H8064-ND	8.60	74.80	598.40	2384.25	4581.50	PCN10-64ACS-2.54DSA
		96	Socket-Straight	95.00	90.00	85.00	78.74	H8096-ND	4.32	35.76	268.20	1005.75	1937.00	PCN13-96S-2.54DSA
		96	Socket-Straight-W/W	95.00	90.00	85.00	78.74	H8296-ND	15.28	143.84	1258.60	5731.13	11012.75	PCN10-96S-2.54WB

*-64 pins; in 3-row format with pins on outside rows and middle row open.

DIN Connectors

Specification: • Housing: Polyester, grey, 94V-0 rated

Fig.	No. of Rows	No. of Pins	DIN Performance Rating	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Brass Contacts										
Type B Right Angle Plug With Solder Posts										
1	2	32	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A29001-ND	2.50	2.33	536053-5
		64		3.700 (93.98)	3.100 (78.74)		A1250-ND	3.81	3.54	536052-5
		64		3.700 (93.98)	3.100 (78.74)		A29000-ND†	4.87	4.53	536385-5
		64		3.700 (93.98)	3.100 (78.74)		A32297-ND†◊	4.37	4.22	5536385-5
Type C Plug, Right Angle										
3	2	32	2	2.100 (53.34)	1.500 (38.10)	.104 (2.64)	A1276-ND	2.41	2.25	650946-5
	3	48				.104 (2.64)	A32298-ND◊	2.55	2.46	5650478-5
	3	48				.104 (2.64)	A29005-ND†	4.73	4.40	650916-5
	3	48				.130 (3.30)	A1281-ND	2.83	2.64	650948-5
	2	64				.130 (3.30)	A1280-ND	4.17	3.88	650951-5
	2	64	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A29008-ND†	3.79	3.53	536406-5
	3	64*				.104 (2.64)	A29013-ND†	3.79	3.53	536356-5
	3	64*				.104 (2.64)	A1255-ND	3.45	3.21	650945-5
	3	64*				.104 (2.64)	A32299-ND◊	3.11	3.00	5650945-5
	3	96	2	3.700 (93.98)	3.100 (78.74)	.130 (3.30)	A32300-ND◊	3.65	3.52	5650947-5
		96					A29007-ND†	5.48	5.09	536405-5
		96					A1254-ND	4.32	4.02	650473-5
		96					A29009-ND§	6.47	6.01	536010-5
		96	2	3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A29010-ND†§	7.03	6.53	536416-5
		96		3.700 (93.98)	3.100 (78.74)	.104 (2.64)	A29012-ND†	4.54	4.22	650913-5
		120		4.500 (114.30)	3.900 (99.06)	.104 (2.64)	A1277-ND	6.08	5.65	650906-5
		120		4.500 (114.30)	3.900 (99.06)	.104 (2.64)	A32301-ND◊	5.48	5.28	5650906-5
		120		4.500 (114.30)	3.900 (99.06)	.130 (3.30)	A1283-ND	16.72	15.53	650949-5
		150	2	5.500 (139.70)	4.900 (124.46)	.104 (2.64)	A1278-ND	8.96	8.32	650907-5
		150					A32302-ND◊	8.10	7.80	5650907-5
		150					A29006-ND†	11.62	10.79	650915-5
Type R Vertical Plug with Solder Posts										
5	3	32*	2	2.140 (54.37)	1.943 (49.35)	.180 (4.57)	A1238-ND	2.58	2.40	650936-5
		48	2			.130 (3.30)	A32303-ND◊	2.46	2.38	5650479-5
		48	3			.130 (3.30)	A29036-ND	2.26	2.10	650479-9
		48	2			.180 (4.57)	A1237-ND	3.14	2.92	650477-5
		64*	2	2.140 (54.37)	1.943 (49.35)	.130 (3.30)	A29034-ND	3.23	3.01	650933-5
		64*		3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A1261-ND	3.24	3.01	650934-5
		96		3.740 (95.00)	3.543 (89.99)	.130 (3.30)	A29032-ND	3.95	3.67	650908-5
		96		3.740 (95.00)	3.543 (89.99)	.180 (4.57)	A1260-ND	3.94	3.66	650470-5
		120		4.535 (115.19)	4.343 (110.31)	.180 (4.57)	A1239-ND	9.63	8.95	650910-5
		120	2	4.535 (115.19)	4.343 (110.31)	.130 (3.30)	A29037-ND	8.32	7.73	650919-5
		150		5.535 (140.59)	5.343 (135.71)	.180 (4.57)	A1297-ND	21.17	19.66	650911-5
Phosphor Bronze Contacts										
Type B Vertical Receptacle										
2	2	32	2	2.100 (53.34)	1.943 (49.35)	.180 (4.57)	A1253-ND	3.35	3.11	650858-5
		64	2	3.700 (93.98)	3.543 (89.99)	.098 (2.49)	A29002-ND	4.65	4.33	650859-5
		64	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29003-ND	4.05	3.76	650860-5
		64	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A1252-ND	4.05	3.76	650861-5
		64	—	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A29004-ND	5.00	4.65	650861-4
Type C Vertical Receptacle										
4	3	48	2	2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A1287-ND	4.05	3.76	535070-5
		48		2.100 (53.34)	1.944 (49.37)	.130 (3.30)	A29022-ND	4.65	4.33	535070-4
		48		2.100 (53.34)	1.944 (49.37)	.180 (4.57)	A29023-ND	4.05	3.76	535071-4
		64*		3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A1259-ND	4.05	3.76	650408-5
		64*		3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A1286-ND	4.05	3.76	650956-5
		64*	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29020-ND†	5.55	5.16	650983-5
		64*				.180 (4.57)	A29021-ND	5.17	4.81	650408-4
		96				.180 (4.57)	A1258-ND	4.86	4.52	535043-5
		96				.130 (3.30)	A1285-ND	4.86	4.52	535090-5
		96				.130 (3.30)	A29014-ND	4.85	4.51	535090-4
		96	2	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29015-ND†	5.40	5.02	650963-4
		96	3	3.700 (93.98)	3.543 (89.99)	.130 (3.30)	A29016-ND	8.79	8.17	535090-9
		96	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A29017-ND	4.86	4.52	535043-4
		96	2	3.700 (93.98)	3.543 (89.99)	.180 (4.57)	A29018-ND†	5.26	4.89	536412-4
		120	2	4.500 (114.30)	4.343 (110.31)	.130 (3.30)	A1289-ND	6.66	6.19	535098-5
		150	2	5.500 (139.70)	5.343 (135.71)	.130 (3.30)	A1290-ND	11.80	10.53	650405-5
						.180 (4.57)	A29027-ND	27.89	25.90	650406-5
Type C Vertical Receptacle with Action Pin For PC Board Mount — .012” x .024” (0.30mm x 0.61mm) - RoHS Compliant										
4	3	32*	2	2.100 (53.34)	1.944 (49.38)	.190 (4.83)	A1294-ND◊	5.15	4.79	535068-5
		48	2	2.100 (53.34)	1.944 (49.38)		A1293-ND◊	4.80	4.46	535034-5
		64*	2	3.700 (93.98)	3.543 (89.99)		A29029-ND◊	4.30	4.00	535059-4
		64*	2	3.700 (93.98)	3.543 (89.99)		A1292-ND◊	4.30	4.00	535059-5
		96	2	3.700 (93.98)	3.543 (89.99)		A1291-ND◊	4.86	4.52	535032-4
		96	3	3.700 (93.98)	3.543 (89.99)	.190 (4.83)	A29028-ND◊	6.82	6.34	535032-9
		120	2	4.500 (114.30)	4.343 (110.31)		A1295-ND◊	8.51	7.91	535079-5
		150	2	5.500 (139.70)	5.343 (135.71)		A1296-ND◊	11.28	10.48	535080-5
Type R Vertical Plug with Action Pin Posts - RoHS Compliant										
5	3	48	2	2.140 (54.36)	1.943 (49.35)	.250 (6.35)	A1243-ND◊	4.17	3.88	650918-5
		48		2.140 (54.36)	1.943 (49.35)	.250 (6.35)	A32304-ND◊	3.76	3.62	5650918-5
		64*		3.740 (95.00)	3.543 (89.99)	.250 (6.35)	A1242-ND◊	10.83	10.06	650912-5
		96		3.740 (95.00)	3.543 (89.99)	.521 (13.23)	A1265-ND◊	5.77	5.36	650909-5
		96		3.740 (95.00)	3.543 (89.99)	.250 (6.35)	A1241-ND◊	3.95	3.67	650889-5
		120	2	4.535 (115.19)	4.343 (110.31)	.250 (6.35)	A1245-ND◊	20.10	18.67	650921-5
		120		4.535 (115.19)	4.343 (110.31)		A32305-ND◊	18.14	17.48	5650921-5
Type R Right Angle Receptacle										
6	3	48	2	2.096 (53.24)	1.500 (48.26)	.110 (2.79)	A32306-ND◊	4.42	4.26	5650868-4
		48		2.096 (53.24)	1.500 (48.26)		A1271-ND	4.04	3.76	650868-5
		48		2.096 (53.24)	1.500 (48.26)		A29042-ND†	9.46	8.79	650893-4
		64*		3.696 (93.88)	3.100 (78.74)		A1263-ND	4.30	4.00	650870-4
		96	2	3.696 (93.88)	3.100 (78.74)	.167 (4.24)	A29044-ND	5.24	4.87	650462-4
			3			.167 (4.24)	A1264-ND	5.24	4.87	650462-5
			2			.110 (2.79)	A29038-ND	5.26	4.89	650461-4
			2			.110 (2.79)	A1262-ND	5.24	4.87	650461-5
			2			.110 (2.79)	A29039-ND†	6.13	5.70	650895-4
		120	2	4.496 (114.20)	3.900 (99.06)	.110 (2.79)	A32307-ND◊	7.32	7.05	5650874-5
		120		4.496 (114.20)	3.900 (99.06)		A30746-ND‡	8.74	8.12	650874-4
		150		5.496 (139.60)	4.900 (124.46)		A1274-ND	11.73	10.90	650875-5

* In 3-row format with pins on outside rows and middle row open † With Boardlock § High Temperature Housing ‡ Contact finish 30μ” gold over 50μ” nickel in contact area ◊ *RoHS Compliant*

Fig. 1

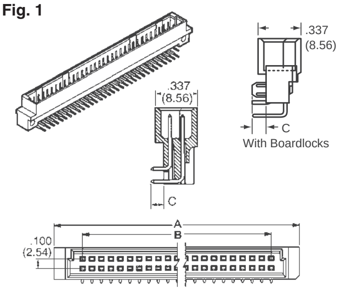

Fig. 2

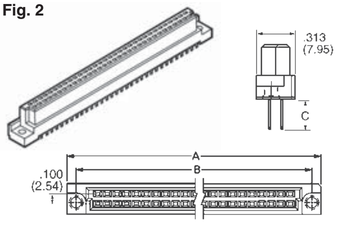

Fig. 3

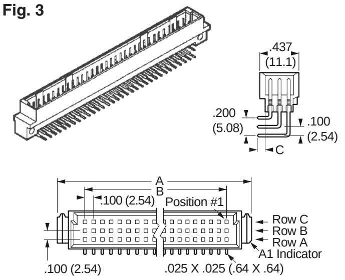

Fig. 4

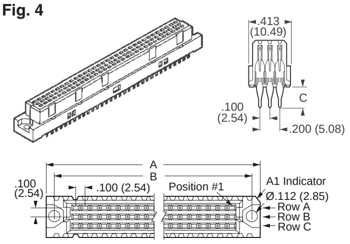

Fig. 5

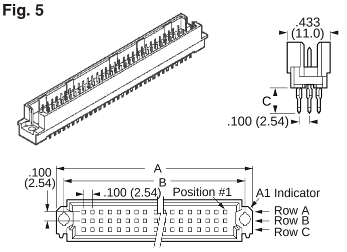

Fig. 6

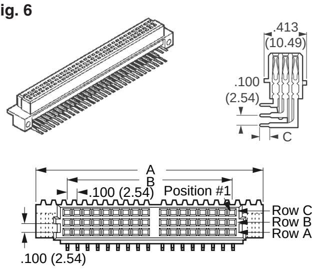

Eurocard DIN Connectors

DIN Connectors (Mtg. Pin Size - .025" (.64mm) Square)

No. of Rows	No. of Pins	Dimension - Inch (mm) A	B	Post Length Inch (mm) (C)	Digi-Key Part No.	Price Each 1	25	Amp Part No.
Type C Vertical Receptacle with Action Pin Posts								
Standard Size (PCB Thickness .093" (2.36mm) and Above)								
3	96	3.740 (95.00)	3.543 (90.00)	.521 (13.23)	A29047-ND	14.31	13.29	215912-4
					A29048-ND†	14.62	13.58	1-215912-4
Standard Size (PCB Thickness .062" (1.57mm) and .093" (2.36mm) and Above)								
3	96	3.740 (95.00)	3.543 (90.00)	.521 (13.23)	A29049-ND	7.78	7.23	148057-5
				.521 (13.23)	A29052-ND†	12.51	10.43	1-148057-5
				.669 (16.99)	A29051-ND	8.01	7.44	148059-5
				.669 (16.99)	A29050-ND†	11.90	11.05	1-148059-5
Type C Right Angle Plug with Action Pin Posts								
Standard Size (PCB Thickness .062" (1.57mm) and .093" (2.36mm) and Above)								
3	96	3.689 (93.70)	3.500 (88.90)	.114 (2.90)	A29053-ND	14.78	13.73	215605-4

† Precious metal plating in contact area and for 5.08 (.200) from tip of post; gold flash on remainder of post.

Material: • Housing: Polyester, grey 94V-0 rated • Contacts: Phosphor bronze and copper alloy

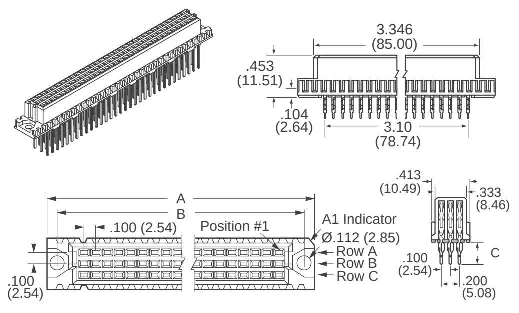

Shrouds

Shrouds are for use with all 96 position, 3 row, type C and R connectors (without mounting holes) mounted in .125" (3.18mm), .093" (2.36mm) and .062" (1.57mm) thick PC boards. Twelve interference areas are located in selected cavities.

Material: Polyester, gray, 94V-0 rated

PC Board Thickness - Inch (mm)	Use With Post Length - Inch (mm)	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
.125 (3.18)	.521 (13.23)	.100 (2.54)	.450 (11.43)	A29058-ND	2.24	2.08	533236-4
.125 (3.18)	.669 (16.99)	.250 (6.35)	.600 (15.24)	A29059-ND	2.86	2.66	533236-5
.093 (2.36)	.521 (13.23)	.135 (3.43)	.485 (12.32)	A29060-ND	3.61	3.36	533236-7
.062 (1.57)	.521 (13.23)	.165 (4.19)	.515 (13.08)	A29061-ND	6.50	6.04	1-533236-0
With Mounting Holes							
.125 (3.18)	.521 (13.23)	.100 (2.54)	.450 (11.43)	A29062-ND	2.24	2.08	535074-1

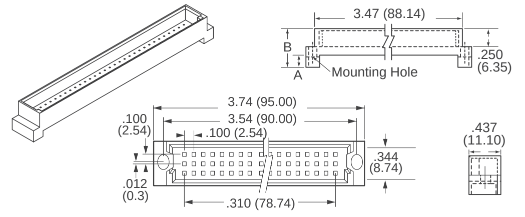

Keying Systems

Material: Polycarbonate, red, 94V-1 rated

Fig. 1

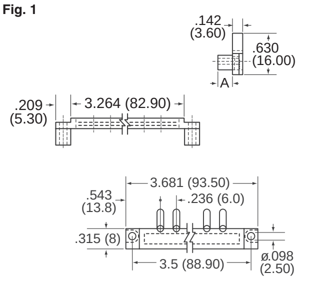

Fig. 2

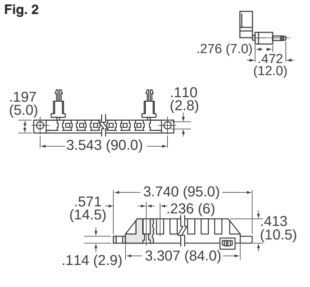

Fig.	Connector Type	Dimension Inch (mm) A	Digi-Key Part No.	Price Each 1	25	Amp Part No.
Pin Assembly Keying Strip						
1	C, D, F*, R	.236 (6.00)	A29065-ND	1.40	1.30	926495-1
	C, D, R	.165 (4.20)	A29066-ND	1.96	1.82	926495-4
Receptacle Assembly Keying Strip						
2	B, C, D, F, Q, R	—	A29067-ND†	1.87	1.74	926495-2

* Use this keying system only † Two Keying plugs are molded to the strip, additional quantities of plugs can be ordered separately (Keying Plug Part No. 926495-3)

Vertical Receptacle Housing (Use Short Point Contacts)

Material: Housing - Polycarbonate, gray, 94V-1 rated

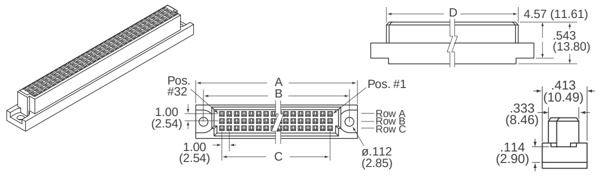

No. of Rows	No. of Pins	Dimension - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	Amp Part No.
Type C									
3	96	3.740 (95.00)	3.540 (90.00)	3.100 (78.74)	3.299 (83.80)	A29054-ND	7.31	6.79	925486-1
	48	2.142 (54.40)	1.949 (49.50)	1.500 (38.10)	1.740 (44.20)	A29055-ND	6.02	5.59	926040-2
Tool (not pictured)									
Extraction Tool						A29057-ND	76.32	—	91156-2

Two-piece Cable Clamp Assemblies

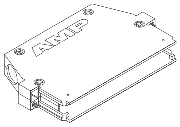

Material: Thermoplastic, gray, 94V-1 rated
Note: Kits are packaged unassembled.

Includes: Cover (shell half), Screw M 2.5 (.10) x DIN 84, Hex. Nut M2.5 (.10) DIN 439, Cable outlet closing plate, Cable Boot, Screw M 2.5 (.10) x DIN 84, Strain Relief Clamp, Fixture for 180 degrees °F Cable outlet

Not supplied in kit: Guide Bracket, Pin Assembly, Receptacle Assembly

A29063-ND Cable Hood Kit, Type C and Type D (96 position). **$29.79/1, $691.60/25**

Mictor Connectors - SMD

Material: • Housing: Liquid crystal polymer, black • Contacts: Copper alloy • Ground Bus: Phosphor bronze • Finish: Gold Plating • Contacts and Ground Bus: Duplex plated 0.00076(.000030) minimum gold in mating area with entire contact and ground bus underplated .00178 (.000070) minimum nickel **Ratings:** • Voltage: 30VAC • Current: Signal 1.0 amp, fully derated grounded; 7.6 amps, fully derated • Temperature: -55°C ~ 125°C

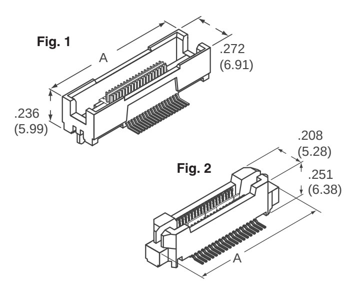

No. of Pos.	Dim. - Inches (mm) A	Distance Between First and Last Position	Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
Fig. 1 - 1 Row of Pins, Series 767004 Receptacles							
38	1.00 (25.4)	.450"	A29126-ND	23.56	21.34	15.12	2-767004-2
38	1.00 (25.4)	.450"	A32308-ND*	19.56	17.72	12.55	2-5767004-2
76	1.50 (38.1)	.950"	A29125-ND	44.84	40.61	28.77	2-767004-3
76	1.50 (38.1)	.950"	A32309-ND*	37.26	33.75	23.91	2-5767004-3
152	2.5 (63.5)	1.95"	A29124-ND	83.90	75.99	53.83	2-767004-5
152	2.5 (63.5)	1.95"	A32310-ND*	63.36	57.39	40.65	2-5767004-5
Fig. 2 - 2 Rows of Pins, Series 767007 Plugs							
38	1.50 (25.4)	.450"	A32311-ND*	16.22	14.69	10.41	5767007-8
76	1.50 (38.1)	.950"	A29140-ND	51.60	46.73	33.10	767007-9
76	1.50 (38.1)	.950"	A32312-ND*	42.85	38.81	27.49	5767007-9
152	2.5 (63.5)	1.95"	A32313-ND*	72.80	65.93	46.70	1-5767007-1

* *RoHS Compliant*

tyco Electronics AMP

Z-Pack 2mm FB (Futurebus+) Connectors

Fig. 1

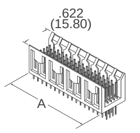

Signal Module, Vertical Pin

Fig. 2

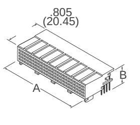

Signal Module, Right-Angle Receptacle

Fig. 3

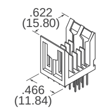

Power Module, Vertical Pin

Fig. 4

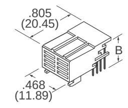

Power Module, Right Angle Receptacle

The Z-PACK 2mm FB two-piece connector system uses a modular concept and a 2mm contact pitch to provide high-density, high-speed signal and power connections for Futurebus+ and Futurebus+ "like" applications.

Product Facts:

- High-density connections; four-row, 2mm x 2mm circuit grid
- Modular design for signal and power connections
- Designed to meet International Specifications IEC 1076-4-0X (48B) and EIA IS 64
- Module assemblies are end-to-end stackable
- Choice of solder leads or compliant press-fit leads
- Flat rock receptacle tooling
- Unique "cold hold" receptacle retention feature requires no tooling for lower applied cost
- Integral receptacle lead organizer

Pin and Receptacle Contacts: Duplex plated gold flash over 0.0008 (.000030) min. palladium-nickel on mating surface, 0.0038 (.000150) minimum tin-lead on solder lead, with entire contact underplated 0.0013 (.000050) nickel

Pin Contacts: Phosphor bronze

Receptacle Contacts: Copper alloy 18C

Housing: Liquid crystal polymer

Fig.	Description	No.of Pos.	Dimension – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	AMP Part No.
1	With Compliant Press-Fit Leads	24	.468 (11.89)	—	A3266-ND	3.57	3.22	536504-1
2	With Solder Leads	48	.940 (23.88)	.107 (2.72)	A3271-ND	6.15	5.57	536507-2
		24	.468 (11.89)	.139 (3.53)	A3274-ND	5.49	4.97	536510-1
		48	.940 (23.88)	.139 (3.53)	A3275-ND	10.47	9.49	536510-2
		96	1.885 (47.88)	.139 (3.53)	A3276-ND	11.05	10.01	536510-3
3	With Compliant Press-Fit Leads	8	—	—	A3283-ND	4.02	3.62	536603-1
4	With Solder Leads	8	—	.139 (3.53)	A3285-ND	6.86	6.22	536613-1
	With Compliant Press-Fit Leads	8	—	—	A3286-ND	6.49	5.88	536614-1
RoHS Compliant								
1	With Solder Leads	24	.468 (11.89)	—	A31555-ND	3.21	2.89	5536501-1
		48	.940 (23.88)	—	A31556-ND	5.88	5.30	5536501-2
		96	1.885 (47.88)	—	A31557-ND	12.33	11.10	5536501-3
		192	3.775 (95.89)	—	A31558-ND	18.69	16.83	5536501-4
	With Compliant Press-Fit Leads	24	.468 (11.89)	—	A31559-ND	2.85	2.57	5536504-1
		48	.940 (23.88)	—	A31560-ND	6.78	6.11	5536504-2
		96	1.885 (47.88)	—	A31561-ND	10.74	9.67	5536504-3
2	With Solder Leads	24	.468 (11.89)	.107 (2.72)	A31562-ND	3.39	3.08	5536507-1
		48	.940 (23.88)	.107 (2.72)	A31563-ND	5.78	5.24	5536507-2
		96	1.885 (47.88)	.107 (2.72)	A31564-ND	10.28	9.32	5536507-3
		192	3.775 (95.89)	.107 (2.72)	A31565-ND	18.10	16.40	5536507-4
		120	2.36 (59.88)	.474 (12.03)	A31566-ND	12.53	11.36	5536507-6
		24	.468 (11.89)	.139 (3.53)	A31567-ND	4.66	4.23	5536510-1
		48	.940 (23.88)	.139 (3.53)	A31568-ND	6.65	6.03	5536510-2
2	With Solder Leads	96	1.885 (47.88)	.139 (3.53)	A31569-ND	10.31	9.34	5536510-3
		192	3.775 (95.89)	.139 (3.53)	A31507-ND	11.73	9.78	5536510-4
	With Compliant Press-Fit Leads	24	.468 (11.89)	—	A31571-ND	3.39	3.08	5536511-1
		48	.940 (23.88)	—	A31572-ND	5.78	5.24	5536511-2
		96	1.885 (47.88)	—	A31573-ND	10.31	9.34	5536511-3
		192	3.775 (95.89)	—	A31574-ND	18.15	16.44	5536511-4
3	With Solder Leads	8	—	—	A31575-ND	3.31	3.00	5536600-1
	With Compliant Press-Fit Leads	8	—	—	A31576-ND	3.31	3.00	5536603-1
4	With Solder Leads	8	—	.107 (2.72)	A31577-ND	4.08	3.70	5536607-1
			—	.139 (3.53)	A31578-ND	5.83	5.28	5536613-1
	With Compliant Press-Fit Leads	8	—	—	A31579-ND	6.07	5.50	5536614-1

Z-Pack 2mm HM PCB Connectors

Features:
• Z-PACK 2mm HM connectors comply with the requirements of IEC 917 and IEC 61076-4-101 • Complies with IEC 950 in mated condition • Signal Contact Rating 1.5A

Applications:
• Telecommunication, computer and instrumentation applications

Dim. in mm

Fig. 1 Type A Male

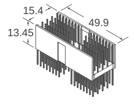

Fig. 2 Type B Male

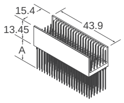

Fig. 3 Type A Female

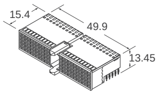

Fig. 4 Type B Female

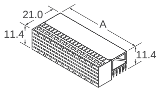

Fig.	Description	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	AMP Part No.
Compact PCI Components						
1	22 Column, Type A Header	—	A29836-ND	9.81	8.83	188834-1
—	3.3V Key for A29836-ND	—	A29828-ND	.79	.72	5-100525-6
—	5V Key for A29836-ND	—	A29829-ND	.79	.72	3-100525-2
2	22 Column, Type B Header, Midplane	14.5/16	A29831-ND	13.14	11.83	352128-1
System and Peripheral Slot Adaptors						
—	3.3V Key for A29832-ND	—	A29833-ND	.79	.72	5-100526-6
—	5V Key for A29832-ND	—	A29834-ND	.79	.72	3-100526-2
RoHS Compliant						
Compact PCI Components						
1	22 Column, Type A Header	—	A31547-ND	9.78	8.81	5188834-1
2	22 Column, Type B Header	3.7	A31548-ND	9.78	8.81	5188835-1
	22 Column, Type B Header, Midplane	14.5/16	A31552-ND	13.17	11.86	5352128-1
System and Peripheral Slot Adaptors						
3	22 Column, Type A Shielded Receptacle	—	A31550-ND	10.31	6.46	5352068-1
4	22 Column, Type B Shielded Receptacle	43.9	A31553-ND	10.31	6.46	5352152-1
	19 Column, Type B Shielded Receptacle	37.9	A31554-ND	8.90	5.58	5352171-1
—	19 Column, Type B Header	—	A31549-ND	8.49	7.65	5352033-1
—	19 Column, Type B Header, Midplane	—	A31551-ND	13.08	11.78	5352127-1

HIROSE ELECTRIC CO.,LTD.

2mm Hard Metric Connector

Applications: Switchboards, transmission systems, Cellular base stations, industrial computer boards, measuring instruments, control equipment. **Product Specifications: Rated Current**: 1.5A **Operating Temp:** -55 ~ 85ºC **Rated Voltage:** AC 300V **Material: Headers & Receptacle - Insulator:** PBT resin, Gray **Terminal:** Phosphor bronze **PCN21B - Contact Area:** Nickel base, gold plating **PCB Leads:** Nickel base, tin plating **Receptacle Shield:** Phosphor bronze **PCN21B - Contact Area:** Nickel base, gold plating. **PCB Leads:** Nickel base, tin plating. UL94V-0

Type A Female

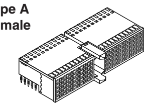

Type A Male

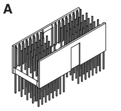

Type B Female

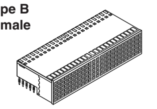

Type B Male

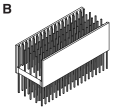

Type C Female

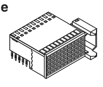

Type C Male

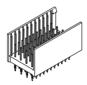

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	Hirose Part No.
110	Recept. Style A, Female, without ground plate	H3208-ND	7.12	5.76	PCN21B-110SA-2PF
110	Header Style A, Male, Short pin	H3200-ND	4.67	3.63	PCN21B-110PA-2PF
110	Header Style A, Male, Short pin with ground	H3201-ND	5.71	4.44	PCN21B-110PA-2PF-G
110	Recept. Style B, Female, without ground plate	H3210-ND	7.10	5.74	PCN21B-110SB-2PF
125	Recept. Style B, Female, without ground plate	H3209-ND	7.80	6.30	PCN21B-125SB-2PF
110	Header Style B, Male, Short pin	H3204-ND	6.47	5.02	PCN21B-110PB-2PF
110	Header Style B, Male, Short pin with ground	H3205-ND	5.68	4.41	PCN21B-110PB-2PF-G
125	Header Style B, Male, Short pin	H3202-ND	5.10	3.96	PCN21B-125PB-2PF
125	Header Style B, Male, Short pin with ground	H3203-ND	6.26	4.86	PCN21B-125PB-2PF-G
55	Recept. Style C, Female, without ground plate	H3211-ND	4.99	3.87	PCN21B-55SC-2PF
—	Bottom ground plate for Recept Style C	H3212-ND	1.79	1.30	PCN21A-SC-G
55	Header Style C, Male, Short pin	H3206-ND	3.10	2.41	PCN21B-55PC-2PF
55	Header Style C, Male, Short pin with ground	H3207-ND	3.54	2.75	PCN21B-55PC-2PF-G
—	Coding key for Male Header, Yellow - 3.3V	H3213-ND	.55	.33	PCN21-P-CK(A)
—	Coding key for Female Recept, Yellow - 3.3V	H3214-ND	.50	.30	PCN21-S-CK(A)
—	Coding key for Male Header, Blue - 5V	H3215-ND	.55	.33	PCN21-P-CK(B)
—	Coding key for Female Recept., Blue - 5V	H3216-ND	.50	.30	PCN21-S-CK(B)

NEW! CONEC
TECHNOLOGY IN CONNECTORS™

RoHS COMPLIANT

Advanced TCA Connectors

Fig. 1

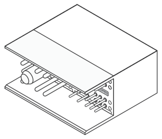

Fig. 2

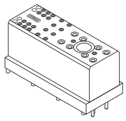

This newly developed architecture and system layout allows manufacturers of telecom equipment a new standard for designing systems (PICMG 3.0). ATCA stands for: Advanced Telecommunications Computing Architecture. The basic structure is utilizing a modular concept. Application of this new structured approach allows various module designs that are compatible in layout and mechanical installation. CONEC manufactured the power connectors for the ATCA System which are used in Zone 1.

Material and Finishes: • **Insulator:** Glass filled Plastic, UL 94V-0 • **Contacts:** High precision machined Copper Alloy • **Plating:** 30 micro inch, Gold over Nickel
Electrical Characteristics: • **Size 16 Power Contacts:** 30A continuous all contacts under load; **Size 22 Signal Contacts:** 2A nominal rating • **Insulation Resistance:** 5 GΩ • **Mechanical Operations:** 250 Cycles • **Temperature Range:** -55°C ~ 150°C

Fig.	No. of Pos.	Termination	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
			Right Angle — Male Connector				
1	30	Press Fit	626-1266-ND	21.32	17.38	14.93	ATC30W08MAE1S5X
1	30	Solder Pin	626-1267-ND	15.14	11.91	9.98	ATC30W08MARCS5X
			Straight — Female Connector				
2	30	Press Fit	626-1268-ND	19.53	15.35	13.26	ATC30W08FGE1S5X
2	30	Solder Pin	626-1269-ND	20.83	16.37	14.14	ATC30W08FGRCS5X

Compact PCI Connectors

Fig. 1

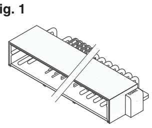

Fig. 2

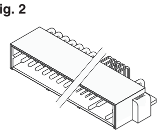

Fig. 3

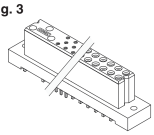

Fig. 4

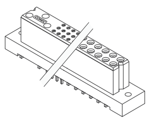

CONEC® is a member of the PICMG Group and has developed the 47-position power connector types, adhering to the specifications outlined in PICMG 2.11 R1.0. Telcom, datacom, computer, medical, instrumentation and industrial control manufacturers are implementing the Compact PCI Bus structure. "PCI" as it is known today stands for Peripheral Component Interconnect.

Material and Finishes:

• **Insulator:** Glass filled plastic, UL 94V-0 • **Contacts:** High precision machined copper alloy • **Plating:** Gold flash over nickel

Electrical Characteristics:

• **Contact Current Ratings: CPH38**: Size 16 Power Contacts: Positions 36, 37 and 38: 40 A continuous, Positions 1-20: 28 A Continuous; Size 20 signals contacts: 3 A nominal rating **CPH47**: Size 16 Power Contacts: Positions 45, 46 and 47: 40 A continuous, Positions 1-20: 28 A Continuous; Size 22 signals contacts: 3 A nominal rating • **Insulation Rating:** 5 GΩ • **Mechanical Operations:** 250 Cycles • **Working Temperature:** -55°C ~ 125°C

Fig.	No. of Pos.	Style	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
			Right Angle				
1	38	Male	626-1272-ND	9.95	7.65	6.41	CPH38W23MARARK9X
2	47	Male	626-1270-ND	11.86	9.33	7.82	CPH47W23MARASK9X
			Straight				
3	38	Female	626-1273-ND	20.39	16.03	13.84	CPH38W23FGE3SK9X
4	47	Female	626-1271-ND	22.64	18.46	15.85	CPH47W23FGE3SK9X

Din Connectors

Fig. 1

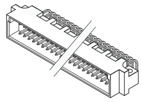

Fig. 2

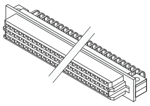

Fig. 3

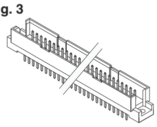

Fig. 4

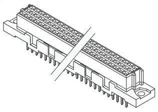

Specifications:

• **Molding Material:** PBTP (Polyester) • **Flammability:** UL 94 V-0 • **Material Contacts:** Copper Alloy • **Working Current:** 2A • **Operating Temperature:** -55°C ~ 125°C • **Quality Class:** 50 Mating Cycles

Fig.	No. of Rows	No. of Pos.	Style	Digi-Key Part No.	Price Each 1	10	100	CONEC Part No.
				Right Angle				
1	3	64	Male	626-1274-ND	3.54	2.44	1.99	121A10139X
2	3	64	Female	626-1280-ND	6.48	4.80	3.97	122A10849X
1	3	96	Male	626-1275-ND	3.97	2.74	2.24	121A10149X
2	3	96	Female	626-1281-ND	7.05	5.22	4.32	122A10859X
				Straight				
3	3	64	Male	626-1278-ND	4.42	3.09	2.53	121A10559X
4	3	64	Female	626-1276-ND	5.17	3.67	3.01	122A10299X
3	3	96	Male	626-1279-ND	5.93	4.34	3.54	121A10569X
4	3	96	Female	626-1277-ND	5.54	4.05	3.31	122A10309X

Sullins

Hard Metric Compact PCI Connectors

Type A
Male

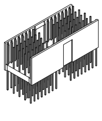

Type B
Female

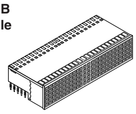

Type B
Male

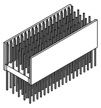

Type C
Female

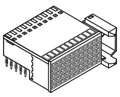

Type C
Male

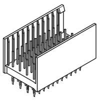

Designed for the Telecommunications industry to replace the DIN 41612 Series of 2 piece connectors. It is much higher density than the older 4162 and the IEC Specification allows for greater standardization.

Specifications:

• **Insulator Material:** Liquid Crystal Polymer (LCP) UL94V-O • **Contact Material:** Phosphor Bronze • **Current Rating:** 1 Amp • **Dielectric Withstanding Voltage:** AC 1000V for 1 Minute • **Insulator Resistance:** 1000MΩ Min. at DC 500V • **Contact Resistance:** 30mΩ Maximum at DC 100mA • **Operating Temperature:** -65°C ~ 125°C

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	Sullins Part No.
154	Type A Male cPCI HM	S3102-ND	6.31	5.72	2AM154P1011-1-H
154	Type A Male HM cPCI Hot Swap	S3103-ND	7.50	6.80	2AM154P1012-1-H
100	Type A Male HM cPCI Telephony	S3104-ND	4.64	4.20	2AM100P1013-1-H
95	Type B19 Female HM Unshielded	S3105-ND	6.07	5.50	2B19F955F001-0-H
133	Type B19 Male HM	S3107-ND	5.46	4.95	2B19M133P1001-1-H
154	Type B22 Male HM	S3110-ND	6.17	5.60	2B22M154P1001-1-H
154	Type B22 Male HM CPCI Telephony	S3111-ND	6.89	6.24	2B22M154P1013-1-H
125	Type B25 Female HM Shielded	S3112-ND	9.41	8.52	2B25F1255F001-1-H
125	Type B25 Female HM Unshielded	S3113-ND	7.16	6.48	2B25F1255F001-0-H
175	Type B25 Male HM	S3114-ND	7.02	6.36	2B25M175P1001-1-H
55	Type C Female HM Unshielded	S3115-ND	4.40	3.99	2CF555F001-0-H
77	Type C Male HM	S3117-ND	3.31	3.00	2CM77P1001-1-H

70AD Modular Contacts

The **Model 70AD Modular Contact** is a low profile modular design connector that makes a high integrity, yet quickly removable connection.

Applications: Rechargeable batteries and battery packs, battery chargers, cellular and portable phones, two-way radios, laptop computers, etc. **Materials and Finishes: Insulator:** Glass reinforced thermoplastic; UL 94V-0 rated, black **Contact:** Copper alloy **Finish Underplating:** Nickel **Finish Contact Area:** 30µ in. Au over Ni (male), Precious metal (female) **Finish Termination:** Tin alloy (meets MIL-STD202, method 208) **Electrical Operating Characteristics: Current Rating:** DC 3A/contact **Voltage Rating:** DC 30V (male) **Contact Resistance:** 25mΩ maximum **Dielectric Voltage:** AC 500V **Insulating Resistance:** 400MΩ minimum (male), 500MΩ minimum (female) **Operating Temperature:** -55°C ~ 125°C **Mechanical Characteristics: Normal Force:** 100 grams minimum (male) **Durability:** 5,000 cycles

Female Modular Contact

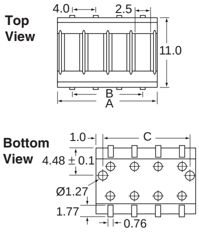

No. of Contacts	Dim. (mm) A	B	C
2	9.0	4.0	7.0
3	13.0	8.0	11.0
4	17.0	12.0	15.0
5	21.0	16.0	19.0
6	25.0	20.0	23.0

Fig. 1 - Female Surface Mount

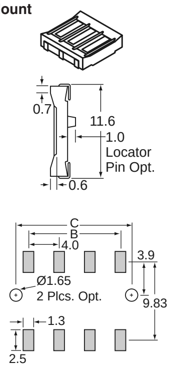

Fig. 2 - Female Through Hole

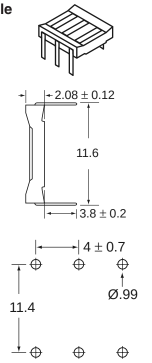

Male Modular Contact

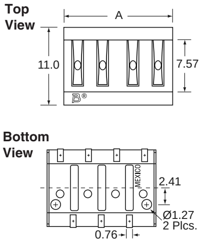

No. of Contacts	Dim. (mm) A	B
2	7.7	5.11
3	11.7	9.11
4	15.7	13.11
5	19.7	17.11
6	23.7	21.11

Fig. 3 - Male Surface Mount

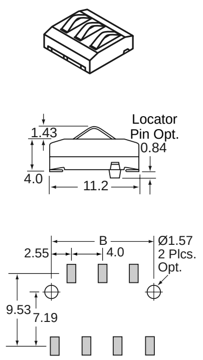

Fig. 4 - Male Through Hole

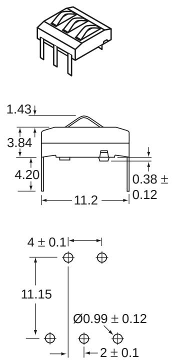

Fig.	No. of Pos.	Digi-Key Part No.	Price Each 1	10	50	100	Bourns Part No.
		Female SMT					
1	2	70ADJ-2-F-ND	1.23	.98	.76	.72	70ADJ-2-FL0
	3	70ADJ-3-F-ND	1.45	1.16	.90	.85	70ADJ-3-FL0
	4	70ADJ-4-F-ND	1.83	1.46	1.13	1.06	70ADJ-4-FL0
	5	70ADJ-5-F-ND	2.18	1.74	1.34	1.27	70ADJ-5-FL0
	6	70ADJ-6-F-ND	2.55	2.04	1.57	1.48	70ADJ-6-FL0
		Female SMT with Locator Pin					
1	2	70ADJ-2-F1-ND	1.23	.98	.76	.72	70ADJ-2-FL1
	3	70ADJ-3-F1-ND	1.45	1.16	.90	.85	70ADJ-3-FL1
	4	70ADJ-4-F1-ND	1.83	1.46	1.13	1.06	70ADJ-4-FL1
	5	70ADJ-5-F1-ND	2.18	1.74	1.34	1.27	70ADJ-5-FL1
	6	70ADJ-6-F1-ND	2.55	2.04	1.57	1.48	70ADJ-6-FL1
		Female Through-Hole					
2	2	70ADH-2-F-ND	1.23	.98	.76	.72	70ADH-2-FL0
	3	70ADH-3-F-ND	1.45	1.16	.90	.85	70ADH-3-FL0
	4	70ADH-4-F-ND	1.83	1.46	1.13	1.06	70ADH-4-FL0
	5	70ADH-5-F-ND	2.18	1.74	1.34	1.27	70ADH-5-FL0
	6	70ADH-6-F-ND	2.55	2.04	1.57	1.48	70ADH-6-FL0
		Male SMT					
3	2	70ADJ-2-M-ND	1.30	1.04	.80	.76	70ADJ-2-ML0
	3	70ADJ-3-M-ND	1.63	1.30	1.00	.95	70ADJ-3-ML0
	4	70ADJ-4-M-ND	2.03	1.62	1.25	1.18	70ADJ-4-ML0
	5	70ADJ-5-M-ND	2.45	1.96	1.51	1.43	70ADJ-5-ML0
	6	70ADJ-6-M-ND	2.85	2.28	1.76	1.66	70ADJ-6-ML0
		Male SMT with Locator Pin					
3	2	70ADJ-2-M1-ND	1.30	1.04	.80	.76	70ADJ-2-ML1
	3	70ADJ-3-M1-ND	1.63	1.30	1.00	.95	70ADJ-3-ML1
	4	70ADJ-4-M1-ND	2.03	1.62	1.25	1.18	70ADJ-4-ML1
	5	70ADJ-5-M1-ND	2.45	1.96	1.51	1.43	70ADJ-5-ML1
	6	70ADJ-6-M1-ND	2.85	2.28	1.76	1.66	70ADJ-6-ML1
		Male Through-Hole					
4	2	70ADH-2-M-ND	1.30	1.04	.80	.76	70ADH-2-ML0
	3	70ADH-3-M-ND	1.63	1.30	1.00	.95	70ADH-3-ML0
	4	70ADH-4-M-ND	2.03	1.62	1.25	1.18	70ADH-4-ML0
	5	70ADH-5-M-ND	2.45	1.96	1.51	1.43	70ADH-5-ML0
	6	70ADH-6-M-ND	2.85	2.28	1.76	1.66	70ADH-6-ML0

Connectors

DIN

Approvals: Din 41612/Din-EN60603-2, IEC603-2, MIL-C-55302, BS 9000, BT, NFC 93.420, PTT, UTE C 93.420, UL File #E189169, CSA File #LR 108833

Fig. 1

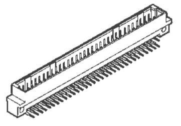

Fig. 2

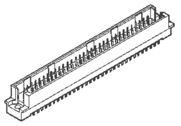

Fig. 3

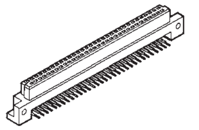

Fig. 4

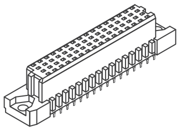

Fig.	No. of Rows	No. of Pins	Style	Digi-Key Part No.	Price Each 1	25	50	100	AVX Part No.
				Plug					
1	2	32	1/2 B	478-1945-ND	5.12	4.76	3.85	3.21	108457032002025
	2	64	B	478-1946-ND	3.47	3.23	2.61	2.17	108457064002025
	3	96	C	478-1957-ND	3.84	3.57	2.88	2.40	108457096002025
	4	128	C Expanded	478-1947-ND	8.04	7.47	6.03	5.03	108457128002025
2	3	96	R	478-1950-ND	3.42	3.18	2.57	2.14	108477096001025
	3	96	R Press-Fit	478-1954-ND	4.65	4.32	3.49	2.91	108478096001025
	3	48	R High Temperature	478-1956-ND	5.38	5.00	4.04	3.36	108577096002025
	3	48	1/2 R	478-1948-ND	2.38	2.21	1.79	1.49	108477048001025
				Receptacle					
3	3	96	R	478-1949-ND	5.26	4.89	3.95	3.29	208477096002025
	4	128	R Expanded	478-1951-ND	14.90	13.84	11.18	9.31	208477128002025
	3	96	R High Temperature	478-1955-ND	8.01	7.44	6.01	5.01	208577096002025
4	3	48	1/2 C Press-Fit	478-1952-ND	4.65	4.32	3.49	2.91	208458048001025
	4	128	C Expanded Press-Fit	478-1953-ND	11.20	10.40	8.40	7.00	208458128001025

2mm Hard Metric

Specifications: • Current Rating: 1.0A/contact/70°C • Voltage Rating: 250V maximum • Dielectric Withstanding Voltage: 750VAC rms/minute • Insulation Resistance: 10^4MΩ minimum • Contact Resistance: 20mΩ maximum • Operating Temperature: -55°C ~ 125°C
Materials: • Contact and Ground Return Shields: Phosphor Bronze • Insulator and Shroud: PBT 30% Glass filled, UL 94V-0 rated • Code Key: Glass filled polyester, UL 94V-0 rated
Approvals: • IEC 61076-4-101,GR-1217-CORE, ISO9001 and PICMG

Fig. 1

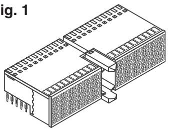

Fig. 2

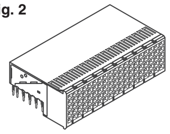

Fig. 3

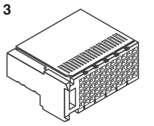

Fig. 4

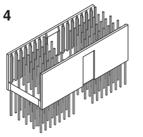

Fig. 5

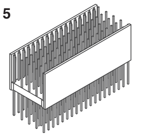

Fig. 6

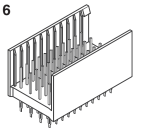

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	100	AVX Part No.
			Right Angle Female				
1	110	Type A without Top Shield or Pegs	478-2848-ND	4.40	3.99	2.83	277200110000002
	110	Type A with Top Shield, without Pegs	478-2849-ND	5.96	5.40	3.83	277200110002002
2	110	Type B 22 without Upper Shield	478-1933-5-ND†	4.77	4.32	3.06	277200110200002
	110	Type B 22 with Upper Shield	478-1934-ND	6.23	5.64	4.00	277200110202002
	95	Type B 19 with Upper Shield	478-2850-ND	5.57	5.04	3.57	277200095302002
3	55	Type C with Upper Shield, without Peg	478-2851-ND	3.55	3.22	2.28	277200055402002
			Vertical Male				
4	154	Style A Hot Swap	478-1929-5-ND†	10.81	9.80	6.94	177200154006002
	154	Style A	478-1930-5-ND†	7.98	7.23	5.12	177200154000002
	100	Style A Computer Telephony	478-1931-5-ND†	7.45	6.75	4.78	177200100008002
5	154	Style B	478-1935-5-ND†	6.68	6.05	4.29	177200154200002
	154	Style B P2/P5 CompactPCI®	478-1936-5-ND†	11.53	10.44	7.40	177200154202005
6	77	Style C	478-1937-5-ND†	4.00	3.63	2.57	177200077400002

† Tube pricing

Coding Keys

Type	Color	Code No.	Voltage	Digi-Key Part No.	Price Each 1	25	100	AVX Part No.
Plug	Yellow	3456	3.3V C-PCI	478-1941-ND	.64	.58	.41	818071000101003
	Blue	1567	5.0V C-PCI	478-1942-ND	.64	.58	.41	818071000102006
Receptacle	Yellow	1278	3.3V C-PCI	478-1943-ND	.77	.70	.50	828071000101003
	Blue	2348	5.0V C-PCI	478-1944-ND	.77	.70	.50	828071000102006

(Continued)

AVX Connectors *(Cont.)*

Fine Pitch SMT Board to Board

1.5mm Features: • 0.4mm fine pitch and low profile • Design provides for an audible click • Prevents solder wicking • Compatible with high temperature, lead free, soldering processes **Specifications:** • Mated Height: 1.5mm • Pitch: 0.4mm • Current: 0.4A maximum • Voltage: 50V maximum **Application:** • 1.5mm series is ideal for high density packaging applications such as PCs, PDAs, DVD, cell phones and digital cameras. **SOLO STACKER™ Features:** • One piece connector used to connect two PCBs with mobile phones, pagers, PDAs, security, hand held scanners, etc. in a cost-effective manner • Can allow a spacing tolerance of up to ±0.30mm

Fig. 1

Dim. in mm

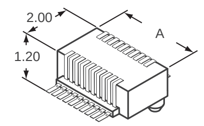

Fig. 2

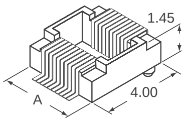

Fig. 3

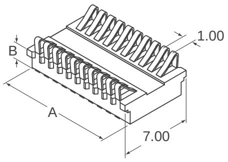

Fig.	No. of Pos.	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	AVX Part No.
1.5mm											
Plug											
1	20	5.1	—	478-1988-1-ND	2.88	2.47	1.92	478-1988-2-ND	2,000	1120.00/M	145602020000829
	30	7.1	—	478-1989-1-ND	3.65	3.12	2.43	478-1989-2-ND	2,000	1417.50/M	145602030000829
	40	9.1	—	478-1990-1-ND	4.14	3.55	2.76	478-1990-2-ND	2,000	1610.00/M	145602040000829
Receptacle											
2	20	6.1	—	478-1991-1-ND	2.16	1.85	1.44	478-1991-2-ND	2,000	840.00/M	245602020000829
	30	8.1	—	478-1992-1-ND	2.30	1.97	1.53	478-1992-2-ND	2,000	892.50/M	245602030000829
	40	10.1	—	478-1993-1-ND	2.88	2.47	1.92	478-1993-2-ND	2,000	1120.00/M	245602040000829
SOLO STACKER™											
With PCB Location Bosses											
3	16	9.0	1.9 ~ 2.1	478-1994-1-ND	2.88	2.47	1.92	478-1994-2-ND	1,250	1120.00/M	009158016020001
	20	11.0	1.9 ~ 2.1	478-1995-1-ND	4.01	3.43	2.67	478-1995-2-ND	1,250	1557.51/M	009158020020001
	24	13.0	1.9 ~ 2.1	478-1996-1-ND	2.39	2.05	1.59	478-1996-2-ND	1,250	927.51/M	009158024020001
	28	15.0	1.9 ~ 2.1	478-1997-1-ND	2.52	2.16	1.68	478-1997-2-ND	1,250	980.00/M	009158028020001
	16	9.0	2.1 ~ 2.7	478-1998-1-ND	2.48	2.12	1.65	478-1998-2-ND	1,250	962.51/M	009158016025001
	20	11.0	2.1 ~ 2.7	478-1999-1-ND	3.42	2.93	2.28	478-1999-2-ND	1,250	1330.00/M	009158020025001
	24	13.0	2.1 ~ 2.7	478-2000-1-ND	2.39	2.05	1.59	478-2000-2-ND	1,250	927.51/M	009158024025001
	28	15.0	2.1 ~ 2.7	478-2001-1-ND	2.97	2.55	1.98	478-2001-2-ND	1,250	1155.00/M	009158028025001
	16	9.0	2.8 ~ 3.3	478-2002-1-ND	2.16	1.85	1.44	478-2002-2-ND	1,100	840.00/M	009158016030001
	24	13.0	2.8 ~ 3.3	478-2004-1-ND	2.48	2.12	1.65	478-2004-2-ND	1,100	962.50/M	009158024030001
	28	15.0	2.8 ~ 3.3	478-2005-1-ND	2.61	2.24	1.74	478-2005-2-ND	1,100	1015.00/M	009158028030001

1.00mm Pitch

Features: ZIF Right Angle: • Voltage: 50V • Current Rating: 1.0A maximum • Operating Temperature: -20°C ~ 85°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator and Slider: PPS, brown color **ZIF Vertical:** • Voltage: 50V • Current Rating: 1.0A maximum • Operating Temperature: -30°C ~ 85°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator: Glass-filled nylon, PPS **LIF Right Angle and Vertical:** • Voltage: 50V • Current Rating: 0.5A maximum • Operating Temperature: -20°C ~ 70°C • Materials: Contact: Phosphor Bronze (tin-lead plated), Insulator: Glass-filled PPS

Fig. 1

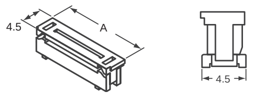

Fig. 2

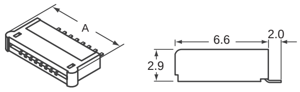

Fig. 3

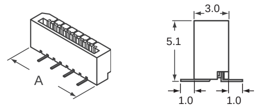

Fig. 4

Dim. in mm

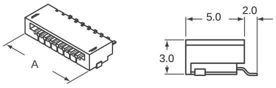

Fig.	No. of Pos.	Dim. (mm) A	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	AVX Part No.
ZIF										
Vertical, SMT without Boss										
1	5	11.4	478-1958-1-ND	1.22	1.04	.81	478-1958-2-ND	1,000	472.50	006208505110000
	6	12.4	478-1959-1-ND	1.71	1.47	1.14	478-1959-2-ND	1,000	665.00	006208506110000
	8	14.4	478-1960-1-ND	2.43	2.08	1.62	478-1960-2-ND	1,000	945.00	006208508110000
	10	16.4	478-1961-1-ND	2.39	2.05	1.59	478-1961-2-ND	1,000	927.50	006208510110000
	12	18.4	478-1962-1-ND	2.57	2.20	1.71	478-1962-2-ND	1,000	997.50	006208512210000
	14	20.4	478-1963-1-ND	2.75	2.35	1.83	478-1963-2-ND	1,000	1067.50	006208514210000
	16	22.4	478-1964-1-ND	2.88	2.47	1.92	478-1964-2-ND	1,000	1120.00	006208516210000
Right Angle, SMT, Bottom Contact Type with Solder Tab, without Boss										
2	5	12.25	478-1965-1-ND	1.31	1.12	.87	478-1965-2-ND	1,000	507.50	006200505130000
	6	13.25	478-1966-1-ND	1.76	1.51	1.17	478-1966-2-ND	1,000	682.50	006200506130000
	8	15.25	478-1967-1-ND	1.80	1.54	1.20	478-1967-2-ND	1,000	700.00	006200508130000
	10	17.25	478-1968-1-ND	1.89	1.62	1.26	478-1968-2-ND	1,000	735.00	006200510130000
	12	19.25	478-1969-1-ND	1.62	1.39	1.08	478-1969-2-ND	1,000	630.00	006200512230000
	14	21.25	478-1970-1-ND	2.12	1.81	1.41	478-1970-2-ND	1,000	822.50	006200514230000
	16	23.25	478-1971-1-ND	2.03	1.74	1.35	478-1971-2-ND	1,000	787.50	006200516230000

Fig.	No. of Pos.	Dim. (mm) A	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	AVX Part No.
LIF										
Vertical, SMT										
3	3	6.0	478-1980-1-ND	.90	.77	.60	478-1980-2-ND	900	315.00	046232103015800
	4	7.0	478-1981-1-ND	.95	.81	.63	478-1981-2-ND	900	330.75	046232104015800
	6	9.0	478-1982-1-ND	.99	.85	.66	478-1982-2-ND	900	346.50	046232106015800
	8	11.0	478-1983-1-ND	1.08	.93	.72	478-1983-2-ND	900	378.00	046232108015800
	10	13.0	478-1984-1-ND	1.13	.97	.75	478-1984-2-ND	900	393.75	046232110015800
	12	15.0	478-1985-1-ND	1.22	1.04	.81	478-1985-2-ND	900	425.25	046232112015800
	14	17.0	478-1986-1-ND	1.31	1.12	.87	478-1986-2-ND	900	456.75	046232114015800
	16	19.0	478-1987-1-ND	1.35	1.16	.90	478-1987-2-ND	900	472.50	046232116015800
Right Angle, SMT, Top Contact Type										
4	3	6.6	478-1972-1-ND	1.04	.89	.69	478-1972-2-ND	1,000	402.50	046232103103800
	4	7.6	478-1973-1-ND	1.08	.93	.72	478-1973-2-ND	1,000	420.00	046232104103800
	6	9.6	478-1974-1-ND	1.22	1.04	.81	478-1974-2-ND	1,000	472.50	046232106103800
	8	11.6	478-1975-1-ND	1.26	1.08	.84	478-1975-2-ND	1,000	490.00	046232108103800
	10	13.6	478-1976-1-ND	1.35	1.16	.90	478-1976-2-ND	1,000	525.00	046232110103800
	12	15.6	478-1977-1-ND	1.44	1.24	.96	478-1977-2-ND	1,000	560.00	046232112103800
	14	17.6	478-1978-1-ND	1.49	1.28	.99	478-1978-2-ND	1,000	577.50	046232114103800
	16	19.6	478-1979-1-ND	1.58	1.35	1.05	478-1979-2-ND	1,000	612.50	046232116103800

HIROSE ELECTRIC CO.,LTD.

SIM Card Sockets — ID1A Series

Features: Suited for Plug-in SIM Cards of the GSM Standard (11.11). SIM card Subscriber Identity Modules are used for subscriber identification with portable telephone terminals having (or using) GSM standard (11.11) plug-in SIM cards. These sockets are miniature and thin with a height of 2.45mm, length of 30.6mm, and width of 17.4mm.

Applications: Portable terminals and equipment that uses GSM Standard (11.11) plug-in SIM cards.

Ratings: • Current: 1A • Temp. Range: -30°C ~ 80°C Voltage: 100VAC

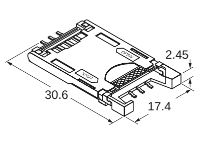

Digi-Key Part No.	Bulk Price Each 1	25	100	Hirose Part No.	Digi-Key Part No.	T & R Pricing 500	Hirose Part No.
H1016-ND	3.51	2.73	2.18	ID1A-6S-2.54SF	H1016TR-ND	817.00	ID1A-6S-2.54SF(21)

SmartMedia Connectors — MCR 102 Series

Features:

The MCR102 Series of miniature, thin connectors conforms to the SSFDC Forum of "SmartMedia" miniature storage media.

Applications:

Digital cameras, PDA, voice recorders, and other equipment that uses SmartMedia.

Ratings:

- Current: 0.5A • Temperature Range: -20°C ~ 60°C Voltage: 125VAC

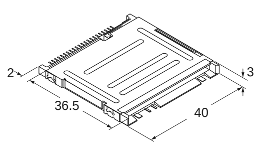

No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
22	Smart Card 5V	H2340-ND	5.34	4.27	3.30	MCR102A-22RH-1.27SF

AVX Memory Cards

PCMCIA PC

Features: • Single stacked header in SMT or Through Hole **Specifications:** • Number of Contacts: 68 • Pitch: 1.27mm (0.05) • Current Rating: 0.5A Maximum • Voltage Rating: 5V Maximum • Mating Cycles: 10,000

Fig. 1

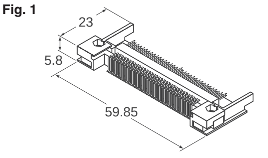

Fig. 2

Dim. in mm

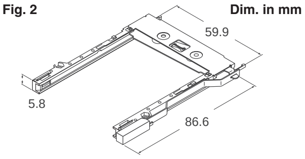

Fig.	Type	Keying	Button Side	Digi-Key Part No.	Price Each 1	25	100	AVX Part No.
1	II	Normal	Left	478-2006-ND	14.41	11.19	8.95	315025068305871
	II	Reverse	Left	478-2008-ND	14.41	11.19	8.95	315025068355871
2	II	Normal	Right	478-2007-ND	6.41	4.98	3.98	305025000322000
	II	Reverse	Left	478-2009-ND	5.90	4.59	3.67	305025000321000

Secure Digital

5638 SERIES: Features: • SD (Secure Digital) Memory Card technology is emerging as the next industry standard for removable flash memory and input/output devices • Low profile • Normal and reverse keying • Card detection feature • Accepts both SD and Multimedia Cards • Mating cycles: 10,000 **Specifications:** • Current Rating: 0.5A • Voltage Rating: 5V • Insulation Resistance: 1000MΩ min. • Contact Resistance: 40mΩ maximum • DW Voltage: AC 500V • Operating Temperature: -25°C ~ 90°C **Applications:** • MP3 Players, PDAs, Cellular Phones, Digital Cameras, Digital Camcorder, etc.

5738 SERIES: Features: • Based on standard defined by I/O working of the SD Assoc., which is an SD memory card endorsement group • Low profile • Introduction of spring eject type for easy operation • Equipped with supporting metal fittings for firm mounting and enough strength as I/O by devising the insulator and the shell structure and enlarging fix metal fitting **Specifications:** • Pitch: 2.50mm • Contact Finish: Gold • Contact Finish Thickness: .50μm • Current: .50A • Voltage: 5.0V • Withstanding Voltage: 500Vrms • Flammability Rating: UL94V-0

9162 SERIES: Features: • Standard SIM (Subscriber Identity Module) connector is specifically designed for hand held devices • Stand-off designs allow other components to be mounted underneath the connector offering greater effective use of PCB real estate • Insulator is molded from high temperature plastic enabling the connector to be used in convection or infrared solder processes **Specifications:** • Pitch: 2.540mm • Contact Material: copper alloy • Contact Finish: gold **Applications:** • For use with both full ISO cards and micro SIM cards

5036 SERIES: Features: • SIM connector with mounting boss • Optional card retention lock • Low profile metal body • Integral SMT strain relief tabs • Card detect switch • Push/Push card ejector **Specifications:** • Contact Material: Phosphor Bronze • Contact Finish: Gold • Flammability Rating: UL94V-0 **Applications:** • GSM or WCDMA cell phones, Navigation systems and Portable data devices

Fig. 1

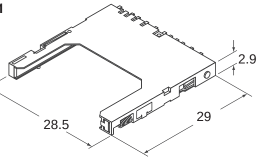

Fig. 2

Dim. in mm

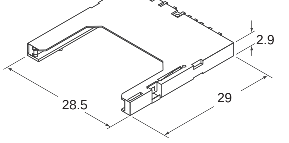

Fig. 3

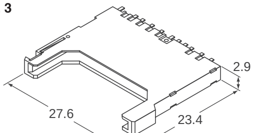

Fig. 4

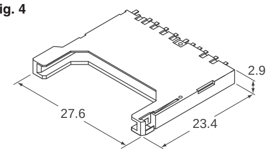

Fig. 5

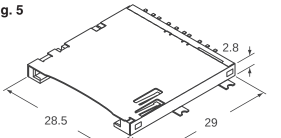

Fig. 6

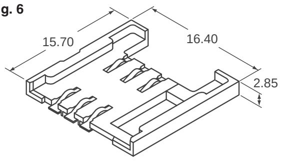

Fig. 7

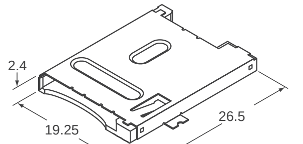

Fig.	Keying	PCB Mounting	Ejector Style	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape and Reel* Size	Pricing	AVX Part No.
1	Normal	Top	Push/Push	478-2016-1-ND	3.74	2.91	2.33	250	467.63	145638009511862
2	Reverse	Bottom	Push/Push	478-2017-1-ND	5.54	4.30	3.44	250	692.38	145638109511862
3	Normal	Top	Without	478-2018-1-ND	2.67	2.07	1.66	350	466.90	145638009211862
4	Reverse	Bottom	Without	478-2019-1-ND	2.67	2.07	1.66	350	466.90	145638109211862
5	Conn. Memory Card Normal I/O			478-2020-1-ND	3.77	2.93	2.34	250	471.25	145738009783862
6	Conn. SIM Card Slide-in SMD			478-2021-1-ND	1.16	.90	.72	1,100	580.00/M	009162006200175
7	Conn. SIM Card 13.52mm w/Boss			478-2022-1-ND	5.34	4.14	3.32	—	—	045036006100862

*For Tape and Reel part number, change 1-ND to 2-ND.

Compact Flash

Features: • Memory card connectors that support Compact Flash • Used for small portable devices **Specifications:** • Number of Contacts: 50 • Pitch: 1.27mm (0.05) • Current Rating: 0.5A Maximum • Voltage Rating: 5V Maximum • Mating Cycles: 10,000 **Applications:** • Digital cameras, Notebook PC, PDA, etc.

Fig. 1

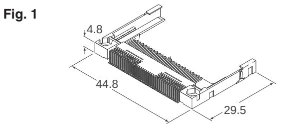

Fig. 2

Dim. in mm

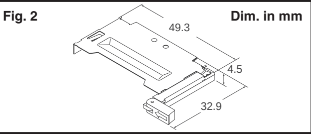

Fig. 3

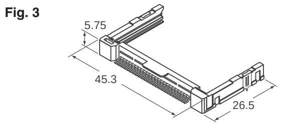

Fig. 4

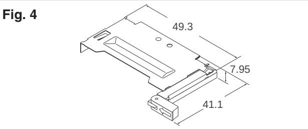

Fig.	Type	Keying	Ejector Style	Button Side	Digi-Key Part No.	Price Each 1	25	100	AVX Part No.
1	I	Normal	Straight	Left	478-2010-ND	4.15	3.22	2.58	315610050500871
	I	Normal	Straight	Right	478-2012-ND	3.77	2.93	2.34	315610050210871
2	I	Normal	Foldable	Left	478-2013-ND	2.81	2.19	1.75	305610000005000
	I	Normal	Foldable	Right	478-2011-ND	3.54	2.75	2.20	305610000006000
3	II	Normal	Straight	Left	478-2014-ND	4.15	3.22	2.58	315620050116871
4	II	Normal	Foldable	Right	478-2015-ND	2.78	2.16	1.73	305620000006000

HIROSE ELECTRIC CO.,LTD.

PCMCIA IC Memory Card Connectors

Fig. 1: IC1 Series

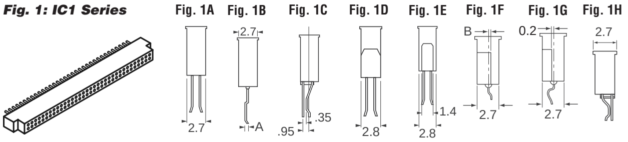

The IC1 Series connectors comply with Ver. 3 and Ver. 4.2, JEIDA and PCMCIA 2.0 Standards.

Features: • Provided with complete features of the JEIDA and PCMCIA Standards, such as polarizing method and sequence construction for circuit protection • Surface mount socket connectors (card side) • Off-center socket connectors are also available that allow high packaging profile • All the pin connectors described are compatible with cards of type I and II • Surface mount header connectors are available

Fig. 2: IC7 Series

The IC7 Series of miniature, lightweight 68-pin connectors complies with JEIDA Ver. 4.2 and is suitable for use with PCMCIA Type III cards. **Features:** • Smaller and thinner than our previous product • Forty-seven percent lighter than our previous product • Equipped with an eject button for smooth removal of cards • Two types of eject button, either left or right • There is also a reverse type for mounting on the back surface of the board • Equipped with a frame ground terminal • Types available for DIP and SMT board mounting methods • The SMT type can be mounted on both sides of the board and can also be used as a 2-slot connector

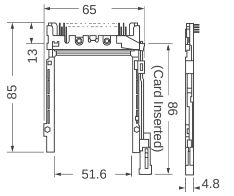

Fig.	No.of Pins	Type	Description	Digi-Key Part No.	Pricing 1	10	Hirose Part No.
			Socket Connector Memory Card				
1A	68	I, II	2.7mm Dual	HR831-ND	6.82	56.40	IC1F-68RD-1.27SH
1B	68	I, II	Single Side, A = .3mm	HR828-ND	7.70	65.12	IC1F-68RD-1.27SF
1B	68	I, II	Single Side, A = .854mm	HR829-ND	7.90	66.88	IC1F-68RD-1.27SFA
1C	68	I, II	Off-Center	HR830-ND	7.10	60.06	IC1H-68RD-1.27SH
1D	68	I, II	2.8mm Dual	HR832-ND	6.92	58.52	IC1BB-68RD-1.27SH
1E	68	I, II	2.8mm Dual	HR833-ND	8.48	71.72	IC1BA-68RD-1.27SH
1H	68	I, II	2.7mm Dual	HR630-ND	4.61	38.16	IC1HA-68RD-1.27SH
1F	68	I, II	2.7mm Dual, B = .3mm	HR631-ND	4.44	36.72	IC1K-68RD-1.27SF
1F	68	I, II	2.7mm Dual, B = .9mm	HR632-ND	4.44	36.72	IC1K-68RD-1.27SFA
1G	68	I, II	2.7mm Dual	HR633-ND	4.44	36.72	IC1K-68RD-1.27SFB
			Memory Card Connector				
2	68	I, II, III	Light Weight, Right Eject	HR816-ND	8.89	75.24	IC7-68PD-1.27DS-EJR
	68	I, II, III	Light Weight, Left Eject	HR817-ND	8.89	75.24	IC7-68PD-1.27DS-EJL
	68	I, II, III	Light Weight, Rev Right Eject	HR818-ND	8.89	75.24	IC7-68PDR-1.27DS-EJR
	68	I, II, III	Light Weight, Rev Left Eject	HR819-ND	8.89	75.24	IC7-68PDR-1.27DS-EJL

DIMM Sockets — SX1 Series

Features: The SX1 Series of horizontal SMT type sockets with 0.635mm pitch comply with the "Small Outline DIMM" specification standardized by JEDEC. Compared with the 72-pin DRAM SIMM socket, these SX1 sockets are about half the size. These sockets can be used in applications requiring double density (i.e., both sides) and permit module boards to be designed with higher level functions and higher density.

Applications: Personal computers, office automation equipment, measuring instruments, communications equipment, medical equipment, factory automation, game machines, EWS, general-use computers, etc.

Ratings: • Temperature Range: -55°C ~ 85°C • Voltage: 25V AC • Current: 0.5A

Fig. 1

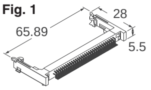

Fig. 2

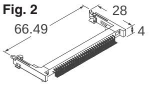

Fig.	No. of Pos.	Description	Digi-Key Part No.	Price Each 1	25	100	Hirose Part No.
		Standard					
1	72	Height 5.5mm, DIMM key 3.3V	H2342-ND	5.45	4.23	3.39	SX1B-72S-0.635SH
	72	Height 5.5mm, DIMM key 5V	H2343-ND	5.45	4.23	3.39	SX1BA-72S-0.635SH
		Low Profile					
2	72	Height 4.0mm, DIMM key 3.3V	H2346-ND	6.08	4.87	3.76	SX1E-72S-0.635SH
	72	Height 4.0mm, DIMM key 5V	H2347-ND	6.41	4.98	3.98	SX1EA-72S-0.635SH

HIROSE ELECTRIC CO.,LTD.

PCMCIA IC Memory Card Connectors

Fig. 1

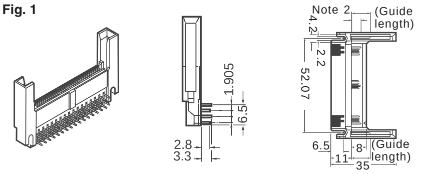

Fig. 2

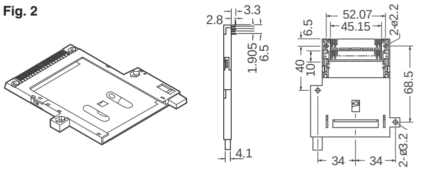

Fig. 3

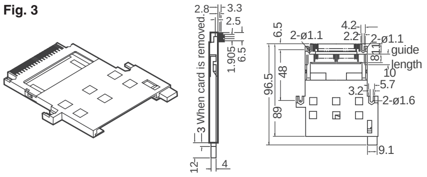

Fig. 4

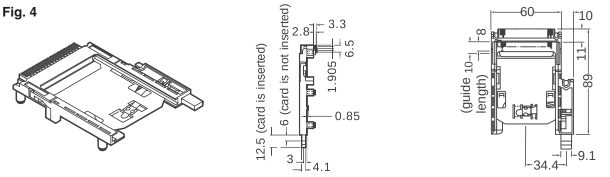

Fig. 5

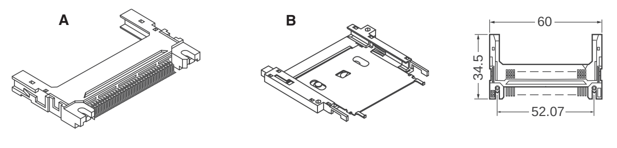

- Leading features of PCMCIA standard of mis-insertion prevention mechanism and sequencing mechanism for circuit protection, are incorporated
- Receptacle is of surface mount type
- Pushbutton switch of ejecting section has an inner spring which makes the pushbutton free from vibration.

Material: • Insulator: Black PPS UL94V-0 • Contact: Selective gold plating • Ejector: SUS **Electrical Specifications:** • Current Rating: 0.5A per pin • Rated Voltage: 125VAC • Withstanding Voltage: 500VAC for one minute at specified value • Insulation Resistance: Minimum 1000MΩ at 500VDC • Contact Resistance: Maximum 40mΩ at 1mA DC

Fig.	No. of Pins	Type	Description	Digi-Key Part No.	Pricing 1	10	Hirose Part No.
1	68	I, II	Memory Card Connector	HR801-ND	6.82	56.40	IC1FA-68PD-1.27DS
2	68	I, II	Memory Card Connector with Ejecting Mechanism	HR802-ND	11.24	103.97	IC1G-68PD-1.27DS-EJ
	68	I, II	With Ejector and ESD Groundings Features	HR810-ND	11.84	109.52	IC1G-68PD-1.27DS-EJ-E
3	68	I	Memory Card Connector with Ejecting Mechanism	HR803-ND	13.06	120.81	IC1F-68PD-1.27DS-EJ
4	68	I, II	Memory Card Connector with Ejecting Mechanism and Std-off	HR804-ND	11.24	103.97	IC1FB-68PD-1.27DS-EJ
5A	68	I, II	SMT Connector without Ejector	HR805-ND	8.90	77.40	IC1G-68PD-1.27SF
5B	68	I, II	SMT Ejector for HR805	HR806-ND	6.53	55.22	IC1G-68PD-EJ

PCMCIA Connectors

IC11S Series

Features: • Grounding is required to meet the high speed signal requirements of the PC card standard • Grounding reliability is achieved with a grounding plate and 8 grounding contacts • Type I, II and III are covered. The terminals for ground clipping are provided • Connector height is minimized to 5.6mm, making possible thinner product designs • Weight of 12.7g for normal button type helps achieve the reduced weight required in todays products **Material: Insulator:** • PPS • Black finish • UL94V-0 **Contact:** • Card Connected Section: • Brass • Contact section: Gold Plating • Lead Section: Solder Plating • Contact Ground Plate: • Phosphor Bronze • Contact Section: Gold Plating • Lead Section: Solder Plating Eject Metal Fittings, Guide Plate and Push Rod: • Stainless Steel Eject Button: • PBT • Black finish • UL94V-0 **Electrical Specifications:** • Current Rating: 0.5A per pin • Rated Voltage: 125VAC • Withstanding Voltage: 500VAC for one minute at specified value • Insulation Resistance: Minimum 1000MΩ at 500VDC • Contact Resistance: Maximum 40MΩ at 1mA DC • Operating Temperature: -55°C ~ 85°C

Connectors and Ejection guides are sold separately.

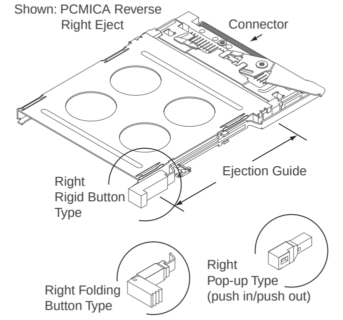

Standoff Type	Description	Digi-Key Part No.	Pricing 1	10	50	Hirose Part No.
		PCMCIA Standard Right Eject				
—	SMT Connector, 68 position 1.27mm	HR1127-ND	8.28	72.00	324.00	IC11S-68PL-1.27SF-EJR
—	Guide Rigid Button	HR1128-ND	3.83	31.68	132.00	IC11S-BD-EJR
—	Guide Folding Button	HR1129-ND	4.67	38.64	161.00	IC11S-BD-FEJR
—	Guide Pop-Up Button	HR1130-ND	6.35	52.56	219.00	IC11S-BD-PEJR
—	Guide Extended Pop-Up Button	HR1131-ND	3.60	29.76	124.00	IC11S-BD-PNEJR
2.2mm	SMT Connector, 68 position 1.27mm	HR1132-ND	8.28	72.00	324.00	IC11SA-68PL-1.27SF-EJR
2.2mm	Guide Rigid Button	HR1133-ND	3.83	31.68	132.00	IC11SA-BD-EJR
2.2mm	Guide Folding Button	HR1134-ND	4.67	38.64	161.00	IC11SA-BD-FEJR
2.2mm	Guide Pop-Up Button	HR1135-ND	6.35	52.56	219.00	IC11SA-BD-PEJR
2.2mm	Guide Extended Pop-Up Button	HR1136-ND	3.60	29.76	124.00	IC11SA-BD-PNEJR
		PCMCIA Standard Left Eject				
—	SMT Connector, 68 position 1.27mm	HR1137-ND	8.28	72.00	324.00	IC11S-68PL-1.27SF-EJL
—	Guide Rigid Button	HR1138-ND	3.83	31.68	132.00	IC11S-BD-EJL
—	Guide Folding Button	HR1139-ND	4.67	38.64	161.00	IC11S-BD-FEJL
—	Guide Pop-Up Button	HR1140-ND	6.35	52.56	219.00	IC11S-BD-PEJL
—	Guide Extended Pop-Up Button	HR1141-ND	3.60	29.76	124.00	IC11S-BD-PNEJL
2.2mm	SMT Connector, 68 position 1.27mm	HR1142-ND	8.28	72.00	324.00	IC11SA-68PL-1.27SF-EJL
2.2mm	Guide Rigid Button	HR1143-ND	3.83	31.68	132.00	IC11SA-BD-EJL
2.2mm	Guide Folding Button	HR1144-ND	4.67	38.64	161.00	IC11SA-BD-FEJL
2.2mm	Guide Pop-Up Button	HR1145-ND	6.35	52.56	219.00	IC11SA-BD-PEJL
2.2mm	Guide Extended Pop-Up Button	HR1146-ND	3.60	29.76	124.00	IC11SA-BD-PNEJL
		PCMCIA Reverse Right Eject				
—	SMT Connector, 68 position 1.27mm	HR1147-ND	8.40	71.06	298.78	IC11S-68PLR-1.27SF-EJR
—	Guide Rigid Button	HR1148-ND	3.83	31.68	132.00	IC11S-BUR-EJR
—	Guide Folding Button	HR1149-ND	5.08	42.00	175.00	IC11S-BUR-FEJR
—	Guide Pop-Up Button	HR1150-ND	6.35	52.56	219.00	IC11S-BUR-PEJR
—	Guide Extended Pop-Up Button	HR1151-ND	3.60	29.76	124.00	IC11S-BUR-PNEJR
2.2mm	SMT Connector, 68 position 1.27mm	HR1152-ND	8.40	71.06	298.78	IC11SA-68PLR-1.27SF-EJR
2.2mm	Guide Rigid Button	HR1153-ND	3.83	31.68	132.00	IC11SA-BUR-EJR
2.2mm	Guide Folding Button	HR1154-ND	5.08	42.00	175.00	IC11SA-BUR-FEJR
2.2mm	Guide Pop-Up Button	HR1155-ND	6.35	52.56	219.00	IC11SA-BUR-PEJR
2.2mm	Guide Extended Pop-Up Button	HR1156-ND	3.60	29.76	124.00	IC11SA-BUR-PNEJR
		PCMCIA Reverse Left Eject				
—	SMT Connector, 68 position 1.27mm	HR1157-ND	8.40	71.06	298.78	IC11S-68PLR-1.27SF-EJL
—	Guide Rigid Button	HR1158-ND	3.83	31.68	132.00	IC11S-BUR-EJL
—	Guide Folding Button	HR1159-ND	5.08	42.00	175.00	IC11S-BUR-FEJL
—	Guide Pop-Up Button	HR1160-ND	6.35	52.56	219.00	IC11S-BUR-PEJL
—	Guide Extended Pop-Up Button	HR1161-ND	3.60	29.76	124.00	IC11S-BUR-PNEJL
2.2mm	SMT Connector, 68 position 1.27mm	HR1162-ND	8.40	71.06	298.78	IC11SA-68PLR-1.27SF-EJL
2.2mm	Guide Rigid Button	HR1163-ND	3.83	31.68	132.00	IC11SA-BUR-EJL
2.2mm	Guide Folding Button	HR1164-ND	5.08	42.00	175.00	IC11SA-BUR-FEJL
2.2mm	Guide Pop-Up Button	HR1165-ND	6.35	52.56	219.00	IC11SA-BUR-PEJL
2.2mm	Guide Extended Pop-Up Button	HR1166-ND	3.60	29.76	124.00	IC11SA-BUR-PNEJL

PC Card Connectors for PC CardBus IC11 Series

Features: Space-Saving Design: Miniature and thin at 62.9mm (width) x 85mm (length) x 5.65mm (height), this space-saving design is only 8mm from the card edge position to the connector tip portion. **Increased Degree of Card Ejection:** An original ejection design increases the degree of card ejection **Materials: Insulation:** • SMT Portion - Liquid crystal polymer (UL94V-0), beige • Card Guide Portion - PBTresin (UL94V-0), black • Eject Button - PBTresin (UL94V-0), black **Contacts:** • Signal Portion - Brass with partial gold plating • CardBus Ground Plate Portion - Phosphor bronze with partial gold plating

Description	Digi-Key Part No.	Pricing 1	10	50	Hirose Part No.
		68 Position PC Card Connector for PC CardBus			
—	HR842-ND	8.63	75.00	337.50	IC11-68PL-1.27SF-EJR
		Ejector PC CardBus Connector			
Right	HR843-ND	4.52	37.44	156.00	IC11-BD-EJR
Left	HR844-ND	4.52	37.44	156.00	IC11-BD-EJL

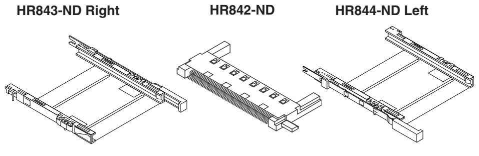

PC Card Single Slot SMT Connectors for the AV Market IC15 Series

Features: Designed for the front mounted Audio/Visual equipment, the connectors eject the inserted card by applying force equally to each edge of the card. The button does not protrude without the card being inserted, preventing damage when carrying the portable devices. **Applications:** DVD recorders, LCD TVs, PDP and other digital AV equipment
Specifications: • Current Rating: 0.5A • Operating Temperature: -55°C ~ 85°C • Voltage Rating: 125VAC • Insulation Resistance: 100MΩ minimum • Contact Resistance: 60mΩ maximum (Initial value) • Vibration: No electrical discontinuity of 100ns or more. **Materials: Finish:** Insulator: Black, UL94V-0 • Contacts: Brass: Contact Area Gold plated, Termination Area: Tin plated • Ground/Eject Metal Fittings: Stainless Steel • Positioning Pin: Brass, Tin plated • Frame: Black, UL94V-0 • Cover/Metal Components: Stainless • Spring: Stainless steel • Ejection Button: Gray, UL94V-HB

Digi-Key Part No.	Pricing 1	10	50	Hirose Part No.
	PC Card Guide Connector Assembly			
H5005-ND	4.79	39.60	165.00	IC15A-G-PEJL
	68 Position PC Card Connector for the AV Market			
H5003-ND	3.74	30.96	129.00	IC15A-PDR-SF-EJL
H5004-ND	3.83	31.68	132.00	IC15A-PDR-SFM-EJL

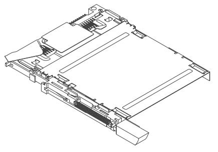

SIMM Sockets

Features and Benefits: • Zero insertion for contacts improve socket and module contact life and provide for fast on-line assembly Guaranteed 2 points of contact per readout with standard JEDEC module • Anti-overstress latch feature provides extra protection during module removal • Polarization posts provide orientation for proper loading of socket into printed circuit board • Polarization rib properly orients module to socket • EIA standard dimensions

Electrical Specifications: • Voltage: 250V • Current: 1.0A • Contact Resistance: 30mΩ maximum • Dielectric Withstanding Voltage: 1000VAC • Insulation Resistance: 5000MΩ minimum • Capacitance: 2.5 pF maximum

Mechanical Specifications: • Normal Force: 150g • Durability: 25 cycles **Physical Specifications:** • Housing: Black LCP, UL 94V-0 • Latch: Stainless Steel • Contact: Phosphor Bronze Alloy • Temperature: -40°C ~ 85°C

Fig. 1

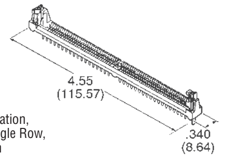

Left Polarization,
Vertical Single Row,
Metal Latch

Fig. 2

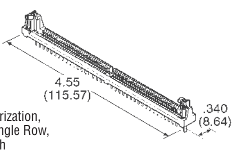

Right Polarization,
Vertical Single Row,
Metal Latch

Fig. 3

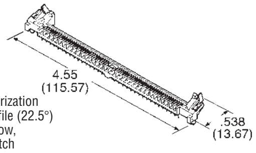

Left Polarization
Low Profile (22.5°)
Single Row,
Metal Latch

Fig. 4

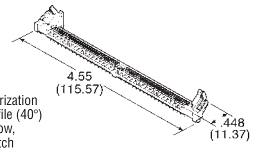

Left Polarization
Low Profile (40°)
Single Row,
Metal Latch

Fig. 5

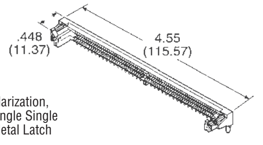

Left Polarization,
Right Angle Single
Row, Metal Latch

Fig. 6

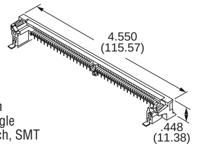

Left Polarization
Right Angle Single
Row, Metal Latch, SMT

Fig.	Plate	Digi-Key Part No.	Price Each 1	25	50	100	Molex Part No.
1	Tin	WM1700-ND	4.39	4.03	3.67	3.30	15-82-0775
2	Gold	WM1703-ND	5.00	4.59	4.17	3.76	15-82-0788
3	Gold	WM1705-ND	5.19	4.76	4.33	3.90	15-82-0675
4	Tin	WM1706-ND	5.38	4.93	4.48	4.04	15-82-0649
	Gold	WM1707-ND	6.31	5.79	5.26	4.74	15-82-0627
5	Tin	WM1709-ND	8.41	7.72	7.02	6.32	15-82-1538
6	Gold	WM18502-ND	16.83	15.43	14.03	12.63	15-82-0328

DDR DIMM Sockets

Features and Benefits: • Accepts JEDEC MO-206 modules for 100% industry compatibility • Dual ejector latches for easy module removal with features to minimize micro motion

Electrical: • Voltage: 125VAC • Current: 1.0A • Contact Resistance: 40mΩ maximum • Dielectric Withstanding Voltage: 500VAC • Insulation Resistance: 1000 MΩ minimum

Physical: • Housing: High-temperature Thermoplastic, UL 94V-0 • Contact: Phosphor Bronze • Operating Temperature: -10°C ~ 85°C

Fig. 1

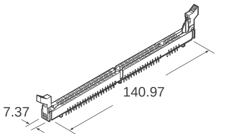

Fig. 2

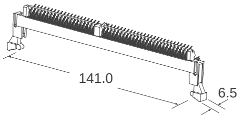

Fig. 3

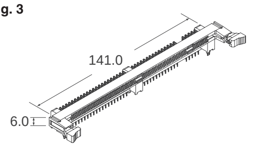

Fig.	Description	Cir-cuits	Voltage Key	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
1	Vertical, Gold	184	Left (2.5V)	WM7315-ND	1.92	1.76	1.60	87636-2002
2	25° Angle, Low Profile, Gold	184	Left (2.5V)	WM7316-ND	8.15	7.47	6.80	87623-2001
3	Right Angle, Contact Plating 15m" Gold	184	Left (2.5V)	WM7317-ND	13.35	12.24	11.13	87655-0004

DIMM Sockets

Features and Benefits: • Accepts JEDEC M0-161 modules for 100% industry compatibility • Dual ejector latches for easy module removal • Palladium nickel with gold flash plating for improved reliability • Added contact wipe for improved reliability **Electrical Specifications:** • Voltage: 100V • Current: 1.0A • Contact Resistance: 20mΩ maximum • Dielectric Withstanding Voltage: 750VAC • Insulation Resistance: 100MΩ minimum **Mechanical Specifications:** • Mating Force: 5 oz. per pair • Durability: 25 cycles minimum **Physical Specifications:** • Housing and Latch: High temperature resistant thermoplastic, UL 94V-0 • Contact: Phosphor Bronze • Plating: Selective palladium nickel with gold flash with tin/lead on solder tails • Temperature: -40°C ~ 85°C

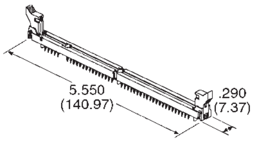

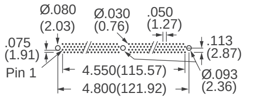

PCB Layout: Component Side

Function / Voltage Key Details

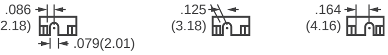

Detail "Z" **Detail "Y"** **Detail "X"**

Description	Cir-cuits	Function Key	Voltage Key	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
DRAM 3.3V	168	Detail Y	Detail Y	WM1710-ND	5.03	4.61	4.19	71251-0001
SDRAM 3.3V	168	Detail Z	Detail Y	WM1714-ND	4.69	4.30	3.91	71251-0016
Unbuffered 3.3V	168	Detail X	Detail Y	WM1712-ND	4.69	4.30	3.91	71251-0012
DRAM 3.3V, Forklock Version	168	Detail Y	Detail Y	WM18497-ND†	5.01	4.60	4.18	71736-0001

† White glass-filled LCP, UL94-0

S.O. DIMM Sockets

Features and Benefits: • Size 144 circuits • S.O. DIMM sockets accept JEDEC standard DRAM and SDRAM modules; SGRAM socket accepts JEDEC standard SGRAM modules • Plastic latch prevents scratching of module, while metal anti-overstress feature protects latch from bending too far in or out • Front solder tabs provide secure PCB hold-down • Polarization key assures proper module insertion **Electrical Specifications:** • Power Supply: 3.3V • Voltage: 100V • Current: 0.3A • Dielectric Withstanding Voltage: 200V AC/1 minute • Insulation Resistance: 1000MΩ minimum **Physical Specifications** • Temperature: -55°C ~ 85°C

Fig. 1 — S.O. DIMM, Right Angle, SMT

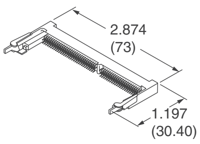

Fig. 2 — SGRAM, Right Angle, SMT

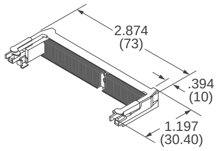

Fig.	Description	Max. Contact Resistance	Mounted Height	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
	S.O. DIMM Sockets							
1	SMT, Right Angle	60mΩ	5.2mm	WM18581-ND◊	8.04	7.37	6.70	54698-7000
	SMT, Right Angle	50mΩ	4.0mm	WM18588-ND◊	7.10	6.51	5.92	54697-7000
	SMT, Right Angle, Reverse Keying	60mΩ	4.0mm	WM18738-ND◊	7.01	6.43	5.85	54432-7000
	SGRAM Socket							
2	SMT, Right Angle	70mΩ	10.0mm	WM18500-ND	5.55	5.09	4.63	54189-1440

◊ ***RoHS Compliant***

PCI Express Edge Card Connectors

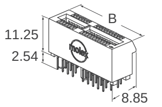

Features:
Housing Material: Nylon 4/6 • **Housing Color:** Black • **Terminal Material:** PhBr • **Contact Plating:** 30µ" • **Soldertail Plating:** 100µ" minimum tin over 50µ" nickle overall

Circuit Size	Dimension B (mm)	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
36	25	WM9000-ND	1.53	1.40	1.28	87715-9006
64	39	WM9001-ND	2.04	1.87	1.70	87715-9106
98	56	WM9002-ND	3.31	3.04	2.76	87715-9206
164	89	WM9003-ND	4.83	4.44	4.03	87715-9306

HIROSE
ELECTRIC
CO.,LTD.

Smart Card Sockets

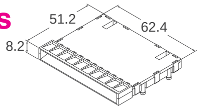

Features: • Suited to Smart Cards Conforming to ISO-7816 • Sockets are available with 8 contacts only, in conformity with ISO-7816 • A switch that detects whether the smart card has been inserted securely prevents erroneous operation. This switch will be set to OFF (i.e., the nonconducting condition) when the smart card has been inserted all the way. **Applications**: Digital satellite broadcast receivers (IRD) and other devices that use smart cards. **Specifications**: • **Current Rating**: 1A • **Voltage Rating**: 150VAC • **Operating Temperature**: -50°C ~ 80°C • **Operating Humidity**: 40% ~ 80% **Material**: • **Insulator**: PBT • **Finish**: Black • **Signal Contacts**: Phosphor bronze • **Contact Portion**: Gold plating • **Lead Portion**: Solder plating • **Switch Contacts**: Phosphor bronze or brass • **Finish**: Gold plating

No. of Pins	Description	Digi-Key Part No.	Pricing 1	10	50	Hirose Part No.
8	Smart Card, 2.54mm, Right Angle Connector	H1895-ND	3.22	26.73	111.38	ID2M-8S-2.54DS

tyco
Electronics
AMP

Secure Digital Memory Card Connector

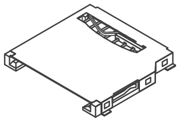

Features: • Surface Mount Inline leads • Right Angle Mount • Housing Color: Ivory • Housing Material: Thermoplastic • Contact Material: Phosphor Bronze • Contact Mating Area Plating is Gold over Palladium Nickel

Digi-Key Part No.	Price Each 1	25	100	AMP Part No.
A29144-ND	8.00	6.90	4.56	440297-1

HIROSE ELECTRIC CO.,LTD. Memory Stick® Connectors

Features: The connector will not allow the card to be completely inserted from the wrong end or reversed. The card will stop about 7mm before complete insertion position, visually indicating incorrect insertion. Incorrect insertion of the card will not damage the contacts. The card can be easily withdrawn and reinserted correctly.

Specifications: • Insulation Resistance: 1000MΩ minimum • Withstanding Voltage: No Flashover or insulation breakdown • Contact Resistance: 100mΩ maximum • Durability (mating/ unmating): 12,000 cycles at 400 to 600 cycles per hour • Current Rating: 0.5A • Voltage rating: 125VAC • Storage Temperature: -40°C ~ 85°C • Operating Temperature: -20°C ~ 85°C *(Includes temperature rise caused by current flow)*

Materials: • **Insulator:** Heat resistant glass reinforced thermoplastic compound, Black, UL94V-0 • **Contacts:** Phosphor Bronze, Contact Area: Gold plating, Termination Area: Solder plating • **Metal Hold Down:** Phosphor Bronze, Contact Area: Nickel plating, Termination Area: Solder plating • **Cover:** Stainless Steel • **Ejection Mechanism Components:** Stainless Steel

Fig. 1

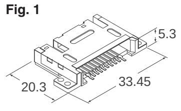

Fig. 2

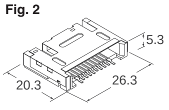

Fig. 3

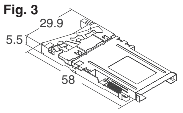

Fig. 4

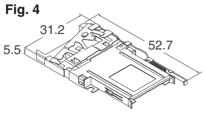

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
1	10 Position with Flange for Screw Attachment	HR894-ND	5.02	4.16	3.12	CB1A-10S-1.5H(57)
	10 Position with Flange for Screw Attachment	HR798-ND*	5.02	4.16	3.12	CB1AC-10S-1.5H(57)
2	10 Position without Flange	HR895-ND	3.77	3.12	2.34	CB1AA-10S-1.5H(57)
3	10 Position, Left Ejection	HR799-ND	8.29	7.02	5.27	CB1C-10S-1.5H-EJL
4	10 Position, Right Ejection	HR800-ND	7.33	6.21	4.66	CB1C-10S-1.5H-EJR

* Without Insertion Stoppers

DM1 Series Secure Digital Memory Card Connectors

Fig. 1

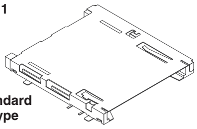

Standard Type

Fig. 2

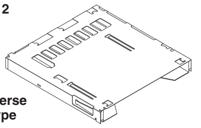

Reverse Type

Fig.	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	T & R Pricing 450	Hirose Part No.
1	HR845CT-ND	4.26	82.69	264.60	HR845TR-ND	959.18	DM1AA-SF-PEJ(21)
2	HR846CT-ND	4.09	79.31	253.80	HR846TR-ND	920.25	DM1B-DSF-PEJ(22)

Features: • Metal cover extends over the back of the connector allowing it to withstand force of up to 400N (static load) when dropped or accidentally hit • The connectors will release the card when a moderate pull-out force of about 4N is applied. There will be no damage to the lock components and all connector functions will not be affected • Built-in lock feature holds the card securely in place • Built-in Push-in/Push-out ejection mechanism assures simple and reliable card insertion and withdrawal • Designed to accept secure Digital I/O card (Built-in Ground Contact) **Applications:** Notebook PCs, digital cameras, PDAs, audio/video equipment and other devices utilizing SD I/O cards

DM2 Series miniSD™ Memory Card Connectors

Fig. 1

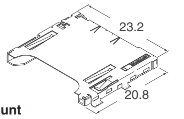

Top Mount

Fig. 2

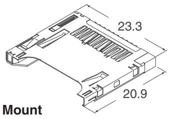

Bottom Mount

Fig.	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	T & R Pricing 800	Hirose Part No.
1	HR847CT-ND	2.96	57.38	183.60	HR847TR-ND	1085.60	DM2A-SFW-PEJ-S
2	HR848CT-ND	2.96	57.38	183.60	HR848TR-ND	1085.60	DM2B-DSFW-PEJ-S

Features: • The world smallest mounting area with the world smallest depth. • Card capturing mechanism prevents card from flying out at ejection and losing. • Ejection does not work for reverse insertion detecting mis-insertion easily. Card is firmly locked in use for card fall-out prevention. • Enhanced grounding for noise (EMI) reduction. (PAT.P) • Reliable two-point connection with double contacts reduces risk of intermittent discontinuity by dropping impact. (PAT.P) **Applications:** • Mobile phone • PDA **Specifications:** • Current Rating: 0.5A • Contact Mating Area Plating: Gold • Operating Temperature Range: -20°C ~ 85°C • PCB Mount Type: SMT

Compact Flash Card Connectors Card Headers - MI21 Series-Type I or II Cards

Features: • Compact design occupies minimum space • Connectors are designed with small width and depth for miniaturization and the foot print on the board has been made smaller • Card ejection mechanism • Two point ejection mechanism to assure even card ejection • Designed and packaged for board placement with automatic equipment • Headers are designed with a pick up area to accommodate the pick-and-place nozzles of automatic mounting machines. (Patents pending) • Receptacles are designed to be mounted on top of the board, and automatic mounting is possible on the specified board

Materials and Finishes: • **Insulator**: PPS resin, Black, UL94V-0 • **Contacts**: Brass • **Engagement Area**: Gold plating of 0.1µm • **Termination Area**: Solder plating • **Reinforced Fitting**: Brass, Applied to eject mechanism • **Eject Fitting**: Stainless steel • **Ground Clip**: Stainless steel, Applied to MI21 • **Nut**: Steel, Solder plating.

Fig. 1

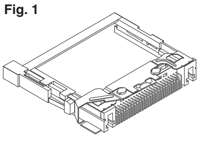

Fig. 2

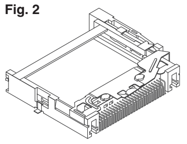

Fig. 3

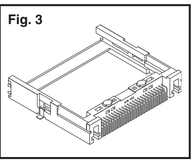

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Hirose Part No.
1	Right Side Eject Button, 0.0mm, Standard Mounting	H3230-ND	8.48	7.18	5.38	MI21-50PD-SF-EJR
2	Left Side Eject Button, No Offset, Standard Mounting	H3231-ND	8.48	7.18	5.38	MI21-50PD-SF-EJL
3	No Eject Button, No Offset, Standard Mounting	H3232-ND	6.53	5.53	4.15	MI21-50PD-SF
3	No Eject Button, No Offset, Reverse Mounting	H3233-ND*	6.53	5.53	4.15	MI21A-50PDR-SF
1	Right Side Eject Button, 2.2mm, Standard Mounting	H3234-ND	8.81	7.46	5.60	MI21A-50PD-SF-EJR
2	Left Side Eject Button, 2.2mm Offset, Standard Mounting	H3235-ND	8.48	7.18	5.38	MI21A-50PD-SF-EJL
3	No Eject Button, 2.2mm Offset, Standard Mounting	H3236-ND	6.79	5.75	4.31	MI21A-50PD-SF

*Reverse Mounting

molex Waldom ELECTRONICS TransFlash Connectors

Fig.	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	T & R Pricing 1,400	Molex Part No.
1	WM19079CT-ND	3.12	60.07	192.22	WM19079TR-ND	1345.55/M	500873-0801
2	WM19081CT-ND	4.61	88.68	283.78	WM19081TR-ND	1986.00/M	500901-0801

Ultra small size for space savings. Metal shielding with shell tabs provides ESD protection and grounding support. Wide open area on shells accomodates pick-and-place. Solder tails on inside of design provide space savings.

Features: • **Current:** 0.5A maximum • **Withstanding Voltage:** 500VAC • **Insulation Resistance:** 1000MΩ minimum • **Temperature Range:** -25°C ~ 85°C

Fig. 1

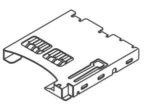

Fig. 2

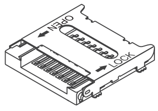

Compact Flash Card Connectors

Fig. 1

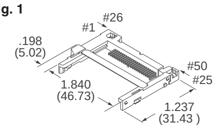

Integral gold plated frame grounds and solder tabs

Fig. 2

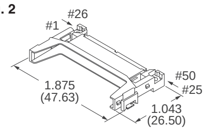

Solder tabs in front provide stability during mating

Fig. 3

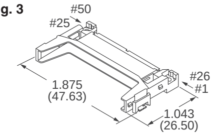

Solder tabs in front provide stability during mating.

Fig. 4

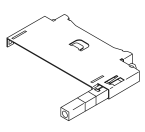

Fig. 5

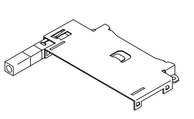

Card Headers

Features and Benefits: • Size 50 circuits • Dual-row 1.27mm (.050") pitch at card interface and 0.635mm (.025") pitch in-line SMT tails • High temperature housing suitable for reflow soldering • In-line SMT tails protect against damage during assembly **Electrical Specifications:** • Voltage: 100V • Current: 0.5A • Contact Resistance: 40mΩ maximum • Dielectric Withstanding Voltage: 500VAC/1 minute • Insulation Resistance: 1000MΩ minimum **Physical Specifications:** • Housing: Glass-filled LCP, UL94V-0 • Contact: Phosphor bronze • Plating: Gold over palladium nickel in contact area; tin/lead in solder tail area, nickel underplate overall • Solder Tab: Phosphor bronze, tin/lead over copper plating • Temperature: -20°C ~ 90°C • PC Board Thickness: 0.80mm • PC Card Thickness: 3.30mm ±0.1 • PC Card Width: 42.80mm ±0.1

Card Ejectors

Features and Benefits: • Low-profile modular design snaps easily onto header • Can be used with both top and bottom mount headers • Lever design provides for smooth card extraction **Physical Specifications:** • Metal Shell and Lever: Stainless steel • Top button: Glass-filled PBT, UL 94V-0

Fig.	Description	Digi-Key Part No.	Pricing 1	25	50	Molex Part No.
	For Type I and Type II Cards and Headers					
1	Header, Right Angle, SMT, 5.85mm Low Profile Height	WM18740-ND*	19.35	443.52	806.40	55244-5029
	For Type I Cards and Headers					
2	Top Mount Header, Right Angle, SMT, 1.64mm Standoff Height..............................	WM18587-ND*	8.93	204.69	372.17	53856-5070
3	Bottom Mount Header, Right Angle, SMT, 1.64mm Standoff Height..............................	WM18743-ND*	9.52	218.09	396.52	53927-5019
4	Ejector, Right Side Flip Button (for Top or Bottom Mount Headers)	WM18507-ND	6.16	141.14	256.61	55021-0001
5	Ejector, Left Side Button (for Top or Bottom Mount Headers)............................	WM18508-ND	6.16	141.14	256.61	55022-0001

* *RoHS Compliant*

molex Waldom ELECTRONICS

Gigabit Interface Converter (GBIC)

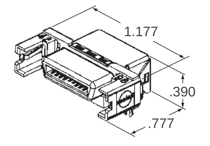

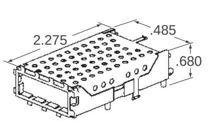

Features and Benefits:
- Meets Gigabit Interface Converter (GBIC) specifications
- Rugged blind-mate guide ears with +/-2.00mm (0.079") mismating tolerance
- Shielded for improved EMI protection with ESD ground contacts and optional shielding pegs
- Staggered "hot-plug" first-mate, last-break contacts on 1.27mm (.050") pitch spacing

Electrical:
- Voltage: 30V
- Current: 1.0A
- Contact Resistance: 20mΩ
- Dielectric Withstanding Voltage: 500V
- Insulation Resistance: 1000MΩ

GBIC Guide Frame:
- Complies with the current GBIC standard (SFF-8053)
- All metal construction provides the ultimate in EMI protection
- Plated die cast body provides the option to solder directly to the PCB
- EMI gasket provides 360 degrees of contact to the chassis
- Compatible with the industry standard footprint
- Mounting options for horizontal and vertical applications

Description	Digi-Key Part No.	Price Each 1	25	50	Molex Part No.
20 Position, SCA-2 Recept with Shielding Pegs	WM1630-ND	13.85	12.70	11.55	74065-0005
Guide Frame for GBIC	WM1631-ND	17.66	16.20	14.72	73847-0001-TR12
Adapter without Serial ID,Copper GBIC to DB9 Female	WM1632-ND	87.25	79.98	72.71	73086-0001-TR12

Ultra+™ VHDCI Connectors and Assemblies

High Density Cable Interconnect, which has been defined as the next generation of physical SCSI (Small Computer Systems Interface) interfaces. VHDCI is sometimes incorrectly referred to as SCSI-4 and will replace SCSI-2 and 3 architecture in new applications. VHDCI offers a reduced size, increased robustness, improved electrical performance, and higher density versus the previous SCSI connectors.

Note that VHDCI refers to the connector interface, SCSI is the communications protocol that the connector supports. Ultra+ meets SFF-8441, revision 9.0 and EIA PN-3652 standards to ensure intermateability with conforming products.

Features: • Conforms to EIA/SFF specifications to ensure intermateability with conforming products • Shield design can dominate reflow solder ground connection • UL File No.: E29179 • CSA File No.: LR 19980-520

Electrical: • Voltage: 30V • Current: .5A • Contact Resistance: 50mΩ maximum • Dielectric Withstanding Voltage: 250V • Insulation Resistance: 500MΩ minimum

Mechanical: • Mating Force: .54N (55g) • Unmating Force: .15N (15g) • Durability: 500 cycles maximum

Physical: • Housing: Black high temperature thermoplastic, UL 94V-0 • Contact: Phosphor Bronze • Plating: Gold Flash over palladium nickel • Operating Temperature: -55°C ~ 85°C

Fig. 1

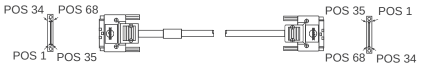

Fig. 2

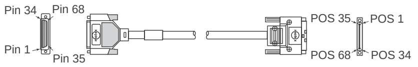

Fig. 3

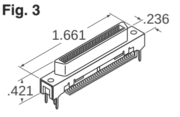

Fig. 4

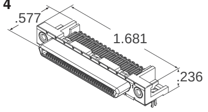

Fig. 5

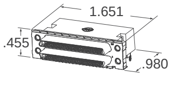

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	Ultra+ VHDCI to Ultra+ VHDCI Cable Assembly	WM7300-ND	56.64	49.57	38.24	79918-0080
2	Ultra+ VHDCI to SCSI+ Cable Assembly	WM7301-ND	55.45	48.53	37.44	79913-0050
3	Ultra+ VHDCI Receptacle	WM7304-ND	22.25	20.03	17.81	73776-0201
4	Ultra+ VHDCI Receptacle	WM7302-ND	15.71	14.15	12.58	71430-0006
	Ultra+ VHDCI Receptacle with Enhanced Shield	WM7303-ND	13.67	12.31	10.94	71430-0008
5	Ultra+ VHDCI Dual Stacked Receptacle	WM7305-ND	35.46	31.92	28.37	74337-0051

InfiniBand™

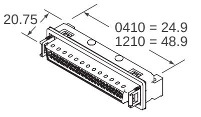

LaneLink 4X and 12X cables are a cable-to-board I/O system optimized for differential signaling at 2.5 Gbps per pair. The pcb receptacle, with its die cast frame featuring unitary latch posts and screw attachment to the pcb, provides outstanding isolation of cable loads from the SMT solder tails. Pinch-to-release latch levers provide positive latch opening prior to unmating the cable.

Features:
- Receptacle die cast frame with unitary latch posts and screw attach to PCB.

Provides the best available strain relief of cable to socket and isolating cable loads from SMT tails.
- Receptacle optional top mount screw attach of die cast frame to chassis. Adds additional strain relief.
- Receptacle has an optional pair of additional screw attachments of frame to PCB. Further secures and isolates SMT tail from cable.

Applications:
- Telecommunication Equipment
- Data Communication Equipment
- Internet Working Equipment
- Storage Area Network (SAN) Switches
- Redundant Array of Inexpensive Disks (RAID) Devices
- Servers
- Computers
- Storage Devices

Description	Digi-Key Part No.	Price Each 1	25	50	100	Molex Part No.
Connector Receptacle, 4 Lane, 0.5mm	WM7309-ND	20.62	18.91	17.19	15.47	91525-0410
Connector Receptacle, 12 Lane, 0.5mm	WM7310-ND	29.20	26.77	24.34	21.90	91525-1210

Small Frame Pluggable Connectors and Frames (SFP)

Fig. 1

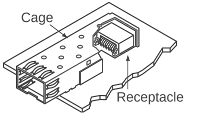

Fig. 2

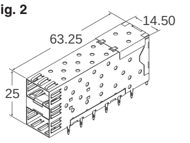

Fig. 3

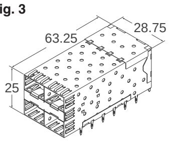

Features: The SFP system follows the function of the standard Gigabit Interface Converter (GBIC) products, with reduced size and increased data-transfer rates at and beyond two Gigabits per second (Gbps). A multi-source, industry-standard product line, our SFP products feature a common design interface for use with multiple data transfer protocols, including Fibre Channel, Gigabit Ethernet, InfiniBand and proprietary links.

Cage Features: • All metal construction for EMI protection • Two point spring contacts for optimal EMI grounding • Chamfered edges on cover facilitate assembly • Design allows cages to be mounted on opposite sides of PCB for "belly-to-belly" applications

SMT Receptacle: • Alignment posts provide stability for placement on the PCB • Standoffs allow easy PCB cleaning after soldering • SMT design provides option for placement on both sides of PCB

Fig.	Cir-cuits	Digi-Key Part No.	Price Each 1	10	100	T & R Pricing* 480	Molex Part No.
Receptacle, Right Angle, SMT							
1	20	WM1633CT-ND†	4.67	4.29	3.90	1308.96	74441-0001
2	40	WM1643-ND	47.70	42.40	37.10	—	75462-0001
3	80	WM1644-ND	69.86	62.10	54.34	—	75759-0001
Cage for Small Frame Solder-Tail Post							
1	—	WM1634-ND	13.45	12.33	10.09	—	73927-0002-TR24

† Cut Tape * For Tape and Reel part number, change CT-ND to TR-ND.

Z-Axis Pluggable Host Connectors

The 30-pin Z-Axis Pluggable host connector enables the use of emerging gigabit-speed hot-pluggable transceiver modules for horizontal front-panel access. It conforms to the host-board layout as defined in the 10 Gigabit Small Form Factor Pluggable (XFP) Multi-source Agreement (MSA) for 10-Gigabit data rates. The connector is typically used in conjunction with an XFP cage, flange and EMI gasket assembly, along with a heat sink and attachment clip, to attach an optical LC duplex or electrical XFP transceiver module to the host board.

Features: • Card entry slot accepts 1.00mm (.039") thick integrated circuit board • Alignment posts provide stability for PCB placement • Coplanarity of solder terminals within 0.10mm (.004") for processing reliability • SMT receptacle provides option for placement on either side of PCB • Circuits: 30 • Pitch: 0.08mm (.031") • PCB Mounting: Surface Mount • UL File No.: E29179 • CSA File No.: 1310648

Electrical: • Voltage: 30V • Current: 0.5A

Physical: • Housing: Black high temperature thermoplastic, UL 94V-0 • Plating: Contact Area: 0.76 µm minimum Gold over 2.54 µm Nickel; Solder Area: 2.54 µm Tin over 2.54 µm minimum Nickel

Fig. 1

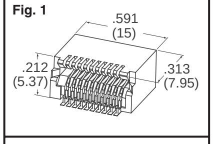

Fig. 2

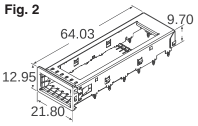

Fig.	Cir-cuits	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing* 480	Molex Part No.
Receptacle, Right Angle, SMT							
1	30	WM1642CT-ND	16.84	15.44	14.04	4716.00	74441-0017

* For Tape and Reel part number, change CT-ND to TR-ND.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
XFP Cage for Small Frame Solder-Tail Post						
2	Without Heatsink or Clip	WM1638-ND	23.40	20.80	18.20	74736-0220
	With PCI Heatsink	WM1639-ND	43.96	39.08	34.19	74736-0221
	With SAN Heatsink	WM1640-ND	43.96	39.08	34.19	74736-0222
	With Tall Heatsink	WM1641-ND	40.40	35.92	31.43	74736-0223

HSSDC2 Connectors and Assemblies

Features: Standard High Speed Serial Data 2 connector for InfiniBand™ (trademark of the InfiniBand (SM) trade association) and Fibre Channel SFF Copper meets electrical and mechanical requirements set forth by these protocols. Positive locking interface to prevent accidental disengagement, with keying options to mating plug connector for polarization and to eliminate mismating. Six chassis ground locations, six PCB ground/retention contacts, and four plug-to-receptacle grounding points to minimize EMI/RFI.

Fig. 1

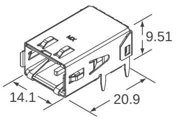

Fig. 2

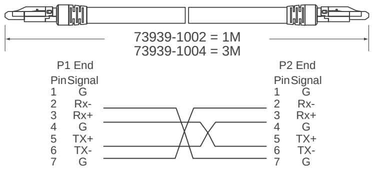

Fig.	Cir-cuits	Digi-Key Part No.	Price Each 1	10	25	100	Molex Part No.
Receptacle, Right Angle Shielded InfiniBand Keyed							
1	7	WM5976-ND	19.82	16.52	13.22	11.56	74703-0007
Receptacle, Right Angle Shielded Fibre Channel Keyed							
1	7	WM5977-ND	22.86	19.06	15.25	13.34	74703-0107
Copper Cable Assemblies, Plug-to-Plug, Unequalized, 3.0m							
2	7	WM2497-ND	36.37	31.83	27.28	24.56	73939-1002
2	7	WM2498-ND	55.94	48.95	41.96	37.76	73939-1004

PUSHMATIC® II With or Without Locking Arms

Fig.1

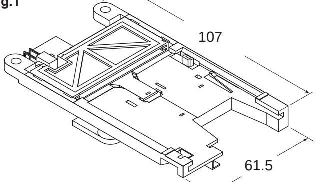

Fig. 2

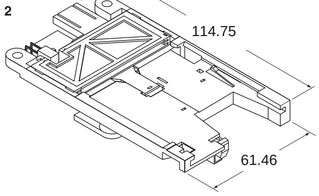

Fig. 3

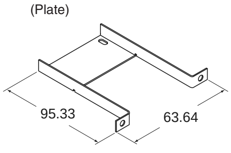

Fig. 4

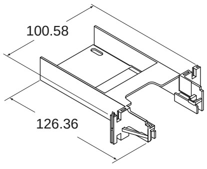

Applications: • Payment and security systems **Design Features:** • Anti-vandal Smart Card Connector for unattended terminals • Miniaturized style, suitable for mobile interface devices • Card accessible during power failure • Card presence switch, also can be used for system wake up • Card end position switch also acts as card locking sensor • Additional sensor for card active position detects abnormal termination of the transaction • Self retracting and self cleaning data contacts provide protection against vandalism • SCC meets the requirements as specified in document EMV 96 (Europay Mastercard Visa/Integrated Circuit Card Specification for Payment Systems) • Housing bottom features a large debris slot allowing the egress of coins, paper, as well as cut in half cards • 16 way interface header allows for custom cabling **Assembly Instructions:** • PUSHMATIC® II can be used with mounting adapter and bezels according to customer design.

Standard Style Smart Card Connectors

Fig. 5

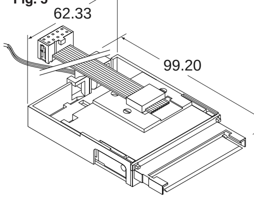

Fig. 6

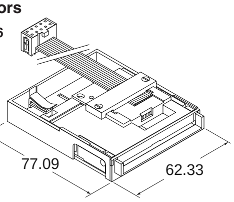

Fig. 7

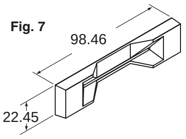

Note: Use only with Fig. 6
C702 10M008 5142
C702 10M008 5222

Applications: • Unattended Point of Sale systems • Vending equipment • Access control **Design Features:** • High numbers of card insertion cycles, due to the principle of landing contacts • Designed for harsh applications and environments • Modular system with several operating methods from manual handling to automatic card ejection • Bezel Accessory **Assembly Instructions:** • Please make sure that interface cables are unrestricted and free to move after assembly.

Superflat Style Smart Card Connectors

Fig. 8

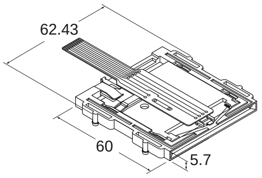

Fig. 9

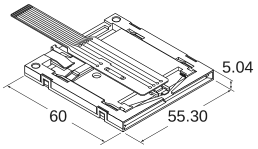

Applications: • Point of Sale systems • Mobile devices • Access control • Keyboards **Design Features:** • Miniature size ideally suited for mobile devices **Assembly Instructions:** • Please make sure that flexprints remain free and unrestricted after assembly.

Disk Drive Slot Smart Card Connectors

Fig. 10

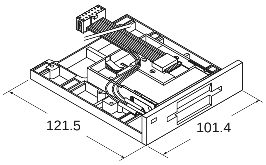

Design Features: • A Smart Card Connector (C702-1) with Push Pull card handling • Mounted on a 3.5 high inch disk drive frame (tan color: RAL 7032) with a bicolor LED (red/green) • Mounting screws are included **Assembly Instructions:** • Please make sure that interface cables are unrestricted and free to move after assembly.

PCB Mount Wiping Contact Smart Card Connectors

Fig. 11

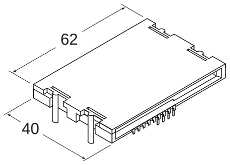

Applications: • Set top boxes • Toll road transponders • Parking meters • Utility metering systems **Design Features:** • Termination: dip solder pins • Special shape of wiping contacts minimize card scratching and wear • Smart Card Connector meets the requirements as specified in document ISO 7816 **Soldering Conditions:** • Wave soldering: 260°C; 10s maximum

PCB Mount Wiping Contact Smart Card Connectors

Fig. 12

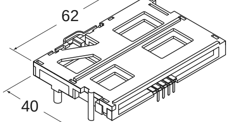

C702 10M008 2724

C702 10M008 2554 with 3mm Standoffs

These acceptors are low cost and provide direct sliding contact between the acceptor and the chip card. These acceptors have NC closed card present switches which open when the card is fully inserted.

Applications: • Set top boxes • Toll road transponders • Parking meters • Utility metering systems **Design Features:** • Termination: dip solder pins • Special shape of wiping contacts minimize card scratching and wear • Smart Card Connector meets the requirements as specified in document EMV 96 (Europay Mastercard Visa/Integrated Circuit Card Specification for Payment Systems) Includes 3mm stand-offs **Soldering Conditions:** • Wave soldering: 260°C; 10s maximum

PCB Mounting Contact Smart Card Connectors with 3mm Standoffs

Fig. 13

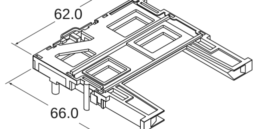

Applications: • TV/Satellite decoders • Point of Sale systems • Computer networks and energy meters • Also suitable for applications with permanently inserted cards under changing temperatures **Design Features:** • Meets the EMV Integrated Circuit Card Specification for Payment Systems (Europay Mastercard Visa) • Has a switch which indicates whether a card is in the reading position

Landing Card PCB Mount Smart Card Connectors

Fig. 14

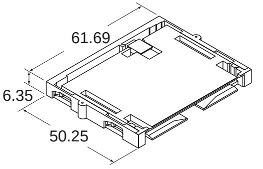

Design Features: • High number of mating cycles due to minimized wiping distance on card contacts • Contact self-cleaning effect • Short card insertion depth **Soldering Conditions:** • Wave soldering: 260°C; 10s maximum

SIMLOCK®

Fig. 15

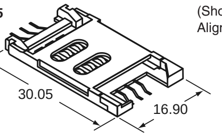

(Shown with Align-Pins)

Applications: • Designed for mini SIM/SAM card **Design features:** • Size: same footprint as SIM card • Reliable function in locked state during mobile use • Polarization notch does not allow incorrect card positioning • Suitable for automatic assembly processes (Pick & Place, Tape & Reel, and Reflow) **Soldering Conditions:** • Infrared reflow: 245°C; 10s maximum

SIMBLOCK®

Fig. 16

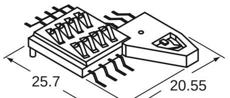

Fig. 17

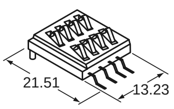

Applications: • Handsets • E-Purses **Design Features:** • Contacts chip cards according to ISO 7816 and Plug in SIM-Cards • Low height (2mm standard) • High co-planarity accuracy • SMT-Version with 6 contacts especially designed for GSM 11.11 interfaces **Soldering Conditions:** • Infrared reflow: 245°C; 10s maximum

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	T&R Pricing	Amphenol Part No.
1	Pushmatic® II, 12V	361-1005-ND	35.59	33.05	31.78	—	C702 10M008 9042
2	Pushmatic® II, 12V, with Locking Arms	361-1006-ND	40.61	37.72	36.27	—	C702 10M008 9052
	Pushmatic® II, 5V, with Locking Arms	361-1008-ND	40.61	37.72	36.27	—	C702 10M008 9072
3	Metal Mounting Plate for Pushmatic® II	361-1010-ND	5.77	4.48	3.59	—	C702 G51 012 E2
4	Plastic Adapter for Deep Bezel	361-1011-ND	11.04	9.66	8.56	—	C702 N25 040 E2
5	Pushmatic®, 12V, ISO	361-1001-ND	25.83	24.11	22.39	—	C702 10M008 7002
	Pushmatic®, 5V, ISO	361-1002-ND	25.83	24.11	22.39	—	C702 10M008 7012
6	Push Pull, ISO	361-1003-ND	16.49	15.39	14.29	—	C702 10M008 5142
	Push Pull, Afnor	361-1004-ND	22.61	21.10	19.60	—	C702 10M008 5222
7	Plastic Bezel, Black, Standard Style	361-1012-ND	14.26	12.48	11.06	—	C702 N11 141 E2
8	Superflat Snap-In, EMV Compatible	361-1014-ND	9.59	7.93	6.68	—	C702 10M008 0664
9	Superflat	361-1015-ND	11.22	9.82	8.70	—	C702 10M008 0014
10	Disk Drive Slot, Desktop	361-1022-ND	36.95	34.49	32.02	—	C705 10M008 0195

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	T&R Pricing	Amphenol Part No.
11	ISO Wiping Contact, Snap-In	361-1016-ND	2.96	2.30	1.84	—	C702 10M008 2064
12	ISO Wiping Contact, EMV, Snap-In	361-1018-ND	1.72	1.33	1.06	—	C702 10M008 2724 A
	ISO Wiping Contact EMV, with Standoffs	361-1019-ND	1.72	1.33	1.06	—	C702 10M008 2554
13	ISO Wiping Contact w/Rails, w/Standoffs	361-1017-ND	2.67	2.05	1.64	—	C702 10M008 2834
14	ISO Landing PCB	361-1013-ND	7.20	5.82	4.58	—	C702 10M008 1214
15	SIMLOCK® without Align-Pins, Black	361-1020-1-ND*	2.54	1.95	1.56	—	C707 10M006 5002
	SIMLOCK® without Align-Pins, Black	361-1020-2-ND	—	—	—	873.60/800	C707 10M006 5002
	SIMLOCK® with Align-Pins, Black	361-1021-1-ND*	2.54	1.95	1.56	—	C707 10M006 0492
	SIMLOCK® with Align-Pins, Black	361-1021-2-ND	—	—	—	873.60/800	C707 10M006 0492
16	SIMBLOCK® with NC Switch	361-1023-ND	3.39	2.64	2.11	—	C707 10M006 0532
17	SIMBLOCK® without Switch	361-1024-ND	3.12	2.40	1.92	—	C707 10M006 0522

* Denotes Cut Tape

Smart Card Interconnect Devices

Fig.	Description	Digi-Key Part No.	Bulk Price Each 1	25	100	ITT Part No.
	CCM01					
—	MK I, 8 Contact PCB	401-1671-ND	3.33	2.67	2.11	CCM01-1NF
	MK I, 8 Contact PCB	401-1903-ND‡	3.33	2.67	2.11	CCM01-1NFROHS
1	MK II, 8 Contact SMT with Board Lock	401-1672-ND	3.68	2.95	2.34	CCM01-2065
	MK II, 8 Contact SMT with Board Lock	401-1709-ND‡	3.68	2.95	2.34	CCM01-2065LFT
	MK II, 8 Contact SMT	401-1673-ND	3.60	2.89	2.29	CCM01-2251
	MK II, 8 Contact SMT	401-1710-ND‡	3.60	2.89	2.29	CCM01-2251LFT
2	MK III, Standard 8 Contact PCB	401-1713-ND‡	1.16	.93	.74	CCM01-6101LFT
	MK III, Reverse 8 Contact PCB	401-1675-ND	1.30	1.20	1.10	CCM01-6201
	MK III, Reverse 8 Contact PCB	401-1717-ND‡	1.20	.96	.76	CCM01-6201LFT
	CCM02					
3	MK I, 8 Contact PCB with Landing Contacts, Standard	401-1676-ND	8.36	6.69	5.30	CCM02-1NO-3
	MK I, 8 Contact PCB with Landing Contacts, Standard	401-1904-ND‡	8.36	6.69	5.30	CCM02-1NO-3ROHS
	MK I, 8 Contact PCB with Landing Contacts, Narrow	401-1677-ND	8.36	6.69	5.30	CCM02-1NO-32
	MK I, 8 Contact PCB with Landing Contacts, Narrow	401-1905-ND‡	8.36	6.69	5.30	CCM02-1NO-32ROHS
	MK I, 8 Contact PCB with Landing Contacts and Extended Cover	401-1678-ND	10.88	8.70	6.89	CCM02-1NO-35
	MK I, 8 Contact PCB with Landing Contacts and Extended Cover	401-1906-ND‡	10.88	8.70	6.89	CCM02-1NO-35ROHS
	MK II, 8 Contact PCB with Four Board Locks	401-1679-ND	6.83	5.47	4.33	CCM02-2503
	MK II, 8 Contact PCB with Four Board Locks	401-1716-ND‡	6.83	5.47	4.33	CCM02-2503LFT
	MK II, 8 Contact SMT with Four Board Locks	401-1680-ND	7.18	5.75	4.55	CCM02-2504
	MK II, 8 Contact SMT with Four Board Locks	401-1715-ND‡	7.18	5.75	4.55	CCM02-2504LFT
	MK II, 8 Contact SMT with Two Pegs	401-1681-ND	6.83	5.47	4.33	CCM02-2508
	MK II, 8 Contact SMT with Two Pegs	401-1711-ND‡	6.83	5.47	4.33	CCM02-2508LFT
	MK II, 8 Contact PCB with Four Pegs	401-1682-ND	6.83	5.47	4.33	CCM02-2511
	MK II, 8 Contact PCB with Four Pegs	401-1714-ND‡	6.83	5.47	4.33	CCM02-2511LFT

‡ ***NEW!*** *RoHS Compliant*

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel* Size	Pricing	ITT Part No.
	CCM03							
4	MK II, 6 Contact Hinged Cover	401-1683-1-ND	1.45	1.35	1.23	—	—	CCM03-3001
	MK II, 6 Contact Hinged Cover	401-1718-1-ND‡	1.45	1.35	1.23	1,000	804.60	CCM03-3001LFT
	MK II, 8 Contact Hinged Cover with Locating Pegs	401-1719-1-ND‡	1.55	1.44	1.32	1,000	858.60	CCM03-3004LFT
	MK II, 6 Contact Hinged Cover, Gold	401-1685-1-ND	1.45	1.35	1.23	1,000	804.60	CCM03-3009
	MK II, 6 Contact Hinged Cover, Gold	401-1720-1-ND‡	1.45	1.35	1.23	1,000	804.60	CCM03-3009LFT
	MK II, 8 Contact Hinged Cover with Locating Pegs, Gold	401-1686-1-ND	1.55	1.44	1.32	1,000	858.60	CCM03-3012
	MK II, 8 Contact Hinged Cover with Locating Pegs, Gold	401-1721-1-ND‡	1.55	1.44	1.32	1,000	858.60	CCM03-3012LFT
	MK II, 6 Contact Hinged Cover Gold with Card Switch	401-1722-1-ND‡	1.71	1.58	1.45	1,000	946.80	CCM03-3013LFT
	MK II, 8 Contact Fixed Cover	401-1688-1-ND	1.42	1.32	1.21	—	—	CCM03-3504
	MK II, 8 Contact Fixed Cover	401-1723-1-ND‡	1.42	1.32	1.21	1,200	786.60/M	CCM03-3504LFT
5	MK II, 6 Contact Side Hinged Auto Lock Cover	401-1689-1-ND	1.62	1.50	1.38	1,300	898.20/M	CCM03-3517
	MK II, 6 Contact Side Hinged Auto Lock Cover	401-1724-1-ND‡	1.62	1.50	1.38	1,300	898.20/M	CCM03-3517LFT
	MK II, 6 Contact Front Hinged Auto Lock with Card Switch	401-1690-1-ND	1.62	1.50	1.38	1,300	898.20/M	CCM03-3518
	MK II, 6 Contact Front Hinged Auto Lock with Card Switch	401-1725-1-ND‡	1.62	1.50	1.38	1,300	898.20/M	CCM03-3518LFT
6	MK III, 6 Contact SIM/SAM Connector	401-1726-1-ND‡	2.43	2.25	2.06	1,000	1348.20	CCM03-3754LFT
	MK III, 6 Contact SIM/SAM Connector with Ground	401-1692-1-ND	2.89	2.67	2.45	1,000	1656.00	CCM03-3758
	MK III, 6 Contact SIM/SAM Connector with Ground	401-1727-1-ND‡	2.89	2.67	2.45	1,000	1656.00	CCM03-3758LFT
	CCM04							
7	MK II, 8 Contact SMT Low Profile 1.25mm	401-1693-1-ND	2.83	2.62	2.40	1,000	—	CCM04-1889
	MK II, 8 Contact SMT Low Profile 1.25mm	401-1730-1-ND‡	2.83	2.62	2.40	1,000	1567.80	CCM04-1889LFT
	MK II, 8 Contact SMT Low Profile 2.75mm	401-1694-1-ND	3.66	3.39	3.10	700	1561.14	CCM04-1316
	MK II, 8 Contact SMT Low Profile 2.75mm	401-1728-1-ND‡	4.03	3.72	3.41	700	1561.14	CCM04-1316LFT
	MK II, 8 Contact SMT Low Profile 2.75mm with Switch	401-1695-1-ND	3.84	3.54	3.25	—	—	CCM04-1317
	MK II, 8 Contact SMT Low Profile 2.75mm with Switch	401-1729-1-ND‡	3.84	3.54	3.25	700	1486.80	CCM04-1317LFT
8	MK III, 8 Contact SMT Low Profile 1.90mm with Switch	401-1696-1-ND	2.71	2.51	2.30	1,000	1503.00	CCM04-4248
	MK III, 8 Contact SMT Low Profile 1.90mm with Switch	401-1731-1-ND‡	2.71	2.51	2.30	1,000	1503.00	CCM04-4248LFS
	CCM05							
9	MK II, 9 Contact SD/MMC Memory Card Connector	401-1732-1-ND‡	2.34	2.16	1.98	600	776.52	CCM05-5761LFT
10	MK II, 10 Contact Mini SD Memory Card Connector	401-1699-ND†	2.25	1.81	1.43	—	—	CCM05-5773
	MK II, 10 Contact Mini SD Memory Card Connector	401-1712-ND†‡	2.25	1.81	1.43	—	—	CCM05-5773LFT

*For Tape and Reel part number, change 1-ND to 2-ND. ‡ ***NEW!*** *RoHS Compliant* † Bulk Pricing

CCM01

Fig. 1

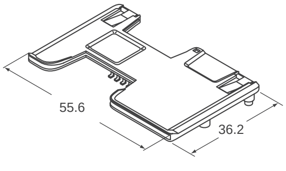

Fig. 2

Reverse version shown

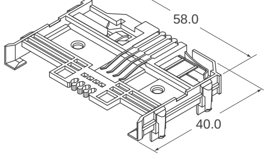

MK I: MK I connectors have fixed contacts and a blade card detection switch unsealed. These connectors are intended for applications where the card usage is relatively low and the environment is benign.

MK II: EMV™ Compatible. MK II connectors with fixed contacts have been developed for applications where a landing contact mechanism is not required but performance and reliability are still key considerations.

MK III: EMV Compatible. MK III connectors are intended for applications such as pay TV, home shopping and utility meters. Mainly driven by the Set Top Box market for payment and /or deciphering.

CCM02 - Fig. 3

MK I: MK I is a connector with landing contacts. The contacts do not touch the card until it is almost fully inserted a minimal wiping action removes any non-conductive material. Designed to give a positive feel as the card is fully inserted. Features: 100,000 card insertion cycles.

MK II: EMV Compatible. MK II connectors with landing contacts are dedicated for applications where the reader usage is high and the life span of the card is a key consideration. It has been redesigned to give an even higher performance in a compact, affordable package. Features: 500,000 card insertion cycles.

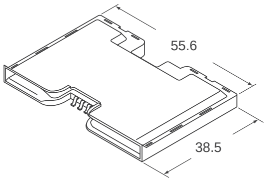

CCM03

Fig. 4

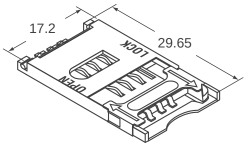

Fig. 5

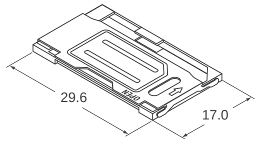

MK II: Developed to interface with SIM/SAM cards as defined by GSM11-11 and ENV1375-1. Available with either hinged covers or fixed covers and have been designed to minimize the amount of space needed for PCB mounting. The high temperature thermoplastic moldings are suited for infrared and convection soldering processes.

MK III: SIM/SAM card connector features an integrated card detection switch providing a competitive advantage to smart card reader device manufacturers by minimizing the space usage on the PCB, features a side entry to offer convenient card access without opening the device. The unique design makes it ideal for telecommunications, portable electronics, POS terminals and similar applications, and meets GSM11-11 specifications.

Fig. 6

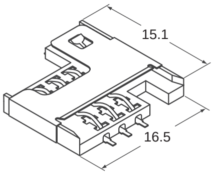

CCM04

Fig. 7

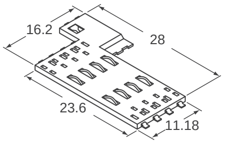

Fig. 8

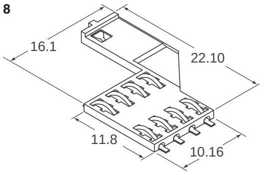

MK II: Connectors are without card guidance and used where space is at a premium and the card guidance can be built around the connector (rather than provided by the connector itself).

MK III: EMV Compatible. Designed to interface with either full or SIM/SAM smart cards and designed to minimize space usage on the PCB.

CCM05 - Fig. 9

MK II: Accepts both Secure Data (SD) and Multi Media Card (MMC) flash memory cards. Integrate them in applications such as cellular phones, PDA, smart phones, MP3 players, handheld GPS, electronic books, industrial controls or wherever portable memory is needed.

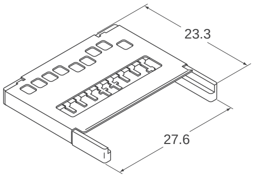

CCM05 - Fig. 10

MK II: For one of the most common card formats, ITT offers both standard and reverse reading options in small and sturdy packaging. Accepts Mini SD flash memory cards. Designed for mobile communication needs. Low profile push push connectors, 2.10 mm.

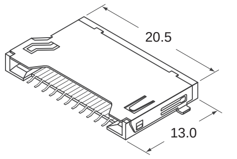

tyco Electronics AMP

I.C. Sockets

Performance Characteristics: Physical: Engaging force: 340 grams maximum (initial) • Separating force: 25 grams minimum **Electrical:** • Rating: 250VAC • Contact resistance: 20mΩ maximum initial, 30mΩ maximum after test • Dielectric withstanding voltage: 1000 VRMS minimum • Insulation resistance: 10,000MΩ minimum (initial) • Capacitance: 0.5 picofarad maximum **Environmental:** • Operating temperature: -55°C ~ 105°C (tin); -55°C ~ 125°C (gold) • Vibration: 15 G's, 10-2000-10 Hz with 100mA current • Shock: 100 G's sawtooth; 6 shocks **Material and Finish:** • Housing: Glass-filled thermoplastic, 94V-0 rated (black) **Notes:** • Closed bottom design: inhibits flux contamination and solder wicking • Overstress stop wall: prevents damage to socket contact from bent or twisted DIP leads and off-set insertion or extraction of DIP packages • Closed Frame Style (unless noted) • Large target area: makes it easy to insert DIP packages • Dual wiping contacts: make a gas-tight connection for high reliability • .175 (4.45) maximum seating plane above pc board • Dual wiping contacts • Stackable end-to-end and side-to-side • Designed to meet EiA RS-415, MIL-S-83734 and stringent computer specifications • Recognized under the Component Program of Underwriters Lab. Inc. File E28476 • Certified by Canadian Standards Association File No. LR 16455

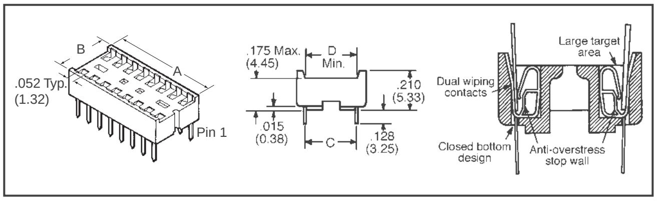

No. of Pins	Dimensions – Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	AMP Part No.
Dual Leaf Dip Sockets								
Phosphor Bronze with 15µ Gold Plating								
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9406-ND	.66	.53	2-641296-4
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9408-ND	.66	.53	2-640463-4
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A32361-ND†	.42	.34	1825093-2
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9414-ND	1.26	1.01	2-640357-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9416-ND	.84	.68	2-640358-4
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94116-ND*	1.26	1.01	2-641600-4
18	.895 (22.73)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9418-ND	1.29	1.04	2-640359-4
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A9420-ND	1.56	1.25	2-640464-4
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94120-ND*	1.50	1.20	2-641602-4
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9424-ND	2.43	1.95	2-640361-4
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A94124-ND*	2.25	1.80	2-641932-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9428-ND	2.31	1.85	2-640362-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94128-ND*	1.71	1.37	2-641605-4
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94132-ND*	2.55	2.04	2-644018-4
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A9440-ND	2.28	1.83	2-640379-4
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A94140-ND*	2.28	1.83	2-641606-4
Beryllium Copper with 30µ Gold Plating								
6	.295 (7.49)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24793-ND	.60	.48	2-641296-2
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24794-ND	.42	.34	2-640463-2
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24795-ND*	.93	.75	2-641599-2
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24796-ND*	.99	.80	2-641600-2
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24797-ND*	2.31	1.85	2-641932-2
24	1.195 (30.35)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24798-ND*	2.94	2.36	2-641604-2
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24799-ND*	3.06	2.45	2-641605-2
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24800-ND*	3.42	2.74	2-644018-2
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24801-ND*	3.03	2.43	2-641606-2
Sockets with Retention Solder Tails								
Phosphor Bronze with 15µ Gold Plating								
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24802-ND	.60	.48	2-641260-4
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24803-ND*	2.31	1.85	2-641615-4
Phosphor Bronze with Tinned Plating — RoHS Compliant								
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24804-ND*	.75	.60	2-641615-3
Beryllium Copper with 30µ Gold Plating								
28	1.395 (35.43)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24805-ND*	3.06	2.45	2-641615-3
40	1.995 (50.67)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24806-ND*	3.03	2.43	2-641616-2
Beryllium Copper with Tinned Plating — RoHS Compliant								
8	.395 (10.03)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24807-ND	.33	.27	2-641260-1
14	.695 (17.65)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24808-ND*	.60	.48	2-641609-1
16	.795 (20.19)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24809-ND*	.66	.53	2-641610-1
20	.995 (25.27)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24810-ND*	.66	.53	2-641612-1
24	1.195 (30.35)	.394 (10.01)	.300 (7.62)	.320 (8.13)	A24811-ND*	.84	.68	2-641933-1
32	1.595 (40.51)	.694 (17.63)	.600 (15.24)	.620 (15.75)	A24812-ND*	.84	.68	2-382189-1

* Open Frame Style † ***RoHS Compliant***

Test Sockets

Reusable Receptacles for Component Testing:

- Receptacles help prevent heat damage to pc boards and components during burn-in and breadboarding evaluation
- Receptacles eliminate need for soldering components directly to the board
- Board components can be inserted and extracted at a minimum of 100 times.

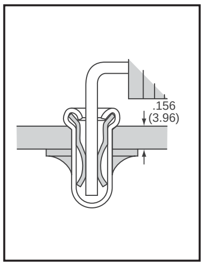

Description	Accepts Lead Size - Inch (mm)	Finish Cup	Spring	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
Closed Bottom	.018 - .040 (0.46 - 1.02)	30µ Gold	30µ Gold	A29070-ND†	1.04	.84	.67	380598-1
		Tin-Lead	30µ Gold	A32362-ND†	.45	.37	.29	5380598-2
		Tin-Lead	Tin-Lead	A32363-ND†	.37	.30	.24	5380598-3
Closed Bottom	.036 - .054 (0.91 - 1.37)	Tin-Lead	Tin-Lead	A29073-ND	.39	.32	.25	1-380758-0
		Tin-Lead	Tin-Lead	A32364-ND†	.37	.30	.24	1-5380758-0
		Tin-Lead	30µ Gold	A29074-ND	.47	.38	.30	1-380758-1
		Tin-Lead	30µ Gold	A32365-ND†	.44	.35	.28	1-5380758-1
Open Bottom	.018 - .040 (0.46 - 1.02)	30µ Gold	30µ Gold	A29075-ND†	1.10	.88	.70	380635-1
		Tin-Lead	30µ Gold	A29076-ND	.72	.58	.46	380635-2
		Tin-Lead	30µ Gold	A32366-ND†	.67	.54	.43	5380635-2
Stand-Off	.018 - .040 (0.46 - 1.02)	Tin-Lead	30µ Gold	A29080-ND	1.43	1.15	.91	1-380737-0
		Tin-Lead	30µ Gold	A32367-ND†	1.34	1.07	.85	1-5380737-0

† ***RoHS Compliant***

SIP Sockets

STRAIGHT SOLDER TAIL

The DIPLOMATE Dual Leaf SIP socket family provides high quality at low cost with superior handling characteristics. These stackable housings feature a "true closed bottom" design which prevents solder or flux wicking.

- Housing- Glass-filled thermoplastic, 94V-0 rated, black
- Contact Material: Tin Plated BE. CU.
- Low Profile - .210 (5.33) maximum
- Dual wiping contacts
- Accepts .008 - .014 (0.2 - 0.36) thick x .030 (0.76) maximum wide rectangular leads

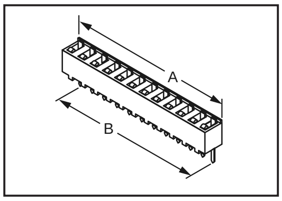

No. of Positions	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
3	.295 (7.49)	.200 (5.08)	A26245-ND	.93	.75	.59	382437-1
4	.395 (10.03)	.300 (7.62)	A24813-ND	.93	.75	.59	382438-1
7	.695 (17.65)	.600 (15.24)	A24814-ND	.93	.75	.59	382441-1
8	.795 (20.19)	.700 (17.78)	A24815-ND	1.02	.82	.65	643640-1
10	.995 (25.27)	.900 (22.86)	A24816-ND	1.50	1.20	.95	643642-1
12	1.195 (30.35)	1.100 (27.94)	A26246-ND	1.92	1.54	1.22	643644-1
12	1.195 (30.35)	1.100 (27.94)	A29107-ND*	1.62	1.30	1.03	643644-3
14	1.395 (35.43)	1.300 (33.02)	A24817-ND	3.06	2.45	1.94	643646-1
15	1.495 (37.97)	1.400 (35.56)	A24818-ND	3.30	2.64	2.09	643647-1
16	1.595 (40.51)	1.500 (38.1)	A26247-ND	2.13	1.71	1.35	643648-1
17	1.695 (43.05)	1.600 (40.64)	A26248-ND	2.55	2.04	1.62	643649-1
18	1.795 (45.59)	1.700 (43.18)	A24819-ND	2.76	2.21	1.75	643650-1
20	1.995 (50.57)	1.900 (48.26)	A24820-ND	2.55	2.04	1.62	643652-1
22	2.195 (55.75)	2.100 (53.34)	A26249-ND	3.48	2.79	2.21	643654-1
25	2.495 (63.37)	2.400 (60.96)	A24821-ND	7.44	5.96	4.72	643657-1
30	2.995 (76.07)	2.900 (73.66)	A26250-ND	8.85	7.08	5.61	643662-1

* Tin Plated Phos. Bronze

PQFP Sockets

Housing: High temperature thermoplastic, 94V-0 rated, black.

Cover: Polyphenylene sulfide (PPS), 94V-0 rated, black. (MICRO-PITCH: Housing and Cover are high temperature thermoplastic, 94V-0 rated).

Performance Characteristics:

- Current Rating: 1A maximum
- Operating Temperature: -55°C ~ 105°C
- Dielectric Withstanding Voltage: 750VAC minimum
- Capacitance (Adjacent Contacts): 1 picofarad maximum
- Durability: 15 insertion/withdrawal cycles

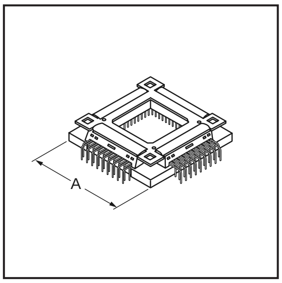

No. of Pos.	Description	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	AMP Part No.
Conventional AMP Sockets							
100	Housing Sub-Assembly	1.140 (28.96)	A24822-ND	20.82	16.66	13.19	821949-4
100	Cover	1.140 (28.96)	A24823-ND†	3.18	2.55	2.02	821939-1
132	Housing Sub-Assembly	1.340 (34.04)	A24824-ND	31.14	24.92	19.73	821949-5
132	Housing Sub-Assembly	1.340 (34.04)	A32368-ND†	31.14	24.92	19.73	2-821949-5
132	Cover	1.340 (34.04)	A24825-ND†	5.94	4.76	3.77	821942-1
MICRO-PITCH Sockets for JEDEC Metric Quad Flat Pack IC's							
144	Housing Sub-Assembly	38.2 (1.504)	A24826-ND	30.57	24.46	19.37	822114-3
144	Cover	38.2 (1.504)	A24827-ND†	4.13	3.31	2.62	822115-3
160	Housing Sub-Assembly	38.2 (1.504)	A24828-ND	33.99	27.20	21.53	822114-4
160	Cover	38.2 (1.504)	A24838-ND†	4.64	3.72	2.94	822115-4
Tools							
—	Extraction Tool	—	A24839-ND	158.61	—	—	822254-1
100	Insertion Hand Tool for Conventional	—	A24831-ND	921.56	—	—	822253-1
132	Insertion Hand Tool for Conventional	—	A24841-ND	902.79	—	—	822253-2
—	Insertion Hand Tool for MICRO-PITCH	—	A24842-ND	344.04	—	—	822253-4

† ***RoHS Compliant***

Miniature Spring Sockets

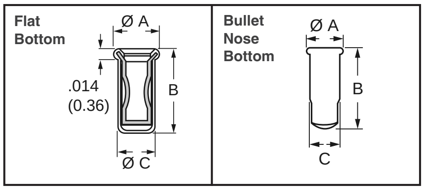

The Miniature Spring Socket System is composed of a series of individual sockets, each utilizing a permanently secured helical spring design to accept round, square or rectangular leads without socket orientation.

Features: • SMT and IRR processing compatibility • Five different hole size series .039 to .107" (0.99 to 2.72mm) available to accommodate a pin diameter range of .012 to .065" (0.30 to 1.65mm) and board thicknesses of .031 to .125" (0.79 to 3.18mm) • Low-Profile, above-board height of .022" (0.56mm) allows maximum board-to-board clearance • Small head diameter allow centerline spacing as close as .070" (1.78mm) • Inner helical spring assures maximum reliability

Material: Spring: Beryllium Copper **Contact Sleeve:** Copper

Description	Pin Diameter Range Inch (mm)	Finish		Dimensions – Inch (mm)			Digi-Key Part No.	Price Each		AMP Part No.
		Spring	Sleeve	A	B	C		1	10	
Flat Bottom										
Closed Bottom	.013 - .021 (0.33 - 0.51)	30µ Gold	Gold Flash	.059 (1.50)	.142 (3.61)	.038 (0.97)	A26251-ND*	.43	.35	2-330808-8
	.013 - .020 (0.33 - 0.51)	30µ Gold	Tin	.059 (1.50)	.178 (4.52)	.039 (0.99)	A32369-ND*	.48	.39	2-5332095-4
	.013 - .020 (0.33 - 0.51)	30µ Gold	Gold Flash	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26257-ND*	.47	.38	2-332095-1
	.018 - .021 (0.46 - 0.53)	30µ Gold	Gold Flash	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24846-ND*	.41	.33	2-331272-2
	.018 - .021 (0.46 - 0.53)	30µ Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A32370-ND*	.86	.69	2-5331272-3
	.014 - .026 (0.36 - 0.66)	30µ Gold	Gold Flash	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24850-ND*	.54	.44	50863-4
	.014 - .026 (0.36 - 0.66)	30µ Gold	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A32371-ND*	.40	.32	5050863-5
	.014 - .026 (0.36 - 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A32372-ND*	.32	.26	5050863-8
	.022 - .025 (0.56 - 0.64)	30µ Gold	Gold Flash	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24856-ND*	.43	.35	2-331272-6
	.022 - .025 (0.56 - 0.64)	30µ Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A32373-ND*	.37	.30	2-5331272-7
	.014 - .026 (0.36 - 0.66)	30µ Gold	Gold Flash	.070 (1.78)	.178 (4.52)	.050 (1.27)	A24862-ND*	.45	.36	50462-6
	.014 - .026 (0.36 - 0.66)	30µ Gold	Tin	.070 (1.78)	.178 (4.52)	.050 (1.27)	A32374-ND*	.46	.37	5050462-8
	.026 - .029 (0.66 - 0.74)	30µ Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24864-ND*	1.05	.84	1-331677-1
	.026 - .029 (0.66 - 0.74)	30µ Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24865-ND	.43	.35	3-331677-8
	.026 - .029 (0.66 - 0.74)	30µ Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A32375-ND*	.40	.33	3-5331677-8
	.026 - .033 (0.66 - 0.84)	30µ Gold	Gold Flash	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24866-ND*	.88	.71	50864
	.026 - .033 (0.66 - 0.84)	30µ Gold	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24867-ND	.43	.35	50864-1
	.026 - .033 (0.66 - 0.84)	30µ Gold	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32376-ND*	.40	.33	5050864-1
	.026 - .033 (0.66 - 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32377-ND*	.33	.27	5050864-6
	.030 - .033 (0.76 - 0.84)	30µ Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24873-ND*	.77	.62	1-331677-4
	.030 - .033 (0.76 - 0.84)	30µ Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24877-ND	.83	.67	1-331677-8
	.034 - .041 (0.86 - 1.04)	30µ Gold	Gold Flash	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24880-ND*	.86	.69	50865
	.037 - .040 (0.94 - 1.02)	30µ Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24886-ND*	.78	.63	1-332070-1
	.037 - .040 (0.94 - 1.02)	30µ Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A32378-ND*	.60	.48	2-5332070-3
	.037 - .040 (0.94 - 1.02)	Tin	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24893-ND	.54	.44	2-332070-2
	.042 - .049 (1.07 - 1.24)	30µ Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24897-ND*	1.47	1.18	50871-4
	.042 - .049 (1.07 - 1.24)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32379-ND*	.45	.36	5050871-5
	.050 - .057 (1.27 - 1.45)	30µ Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24900-ND*	1.04	.84	1-50871-3
	.056 - .065 (1.42 - 1.65)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32380-ND*	.45	.36	2-5050871-3
Open Bottom	.014 - .026 (0.36 - 0.66)	30µ Gold	Gold Flash	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24849-ND*	.57	.46	50863
	.014 - .026 (0.36 - 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A24853-ND	.37	.30	50863-6
	.014 - .026 (0.36 - 0.66)	Tin	Tin	.070 (1.78)	.260 (6.60)	.050 (1.27)	A32381-ND*	.35	.28	5050863-6
	.014 - .026 (0.36 - 0.66)	30µ Gold	Tin	.070 (1.78)	.178 (4.52)	.050 (1.27)	A32382-ND*	.41	.33	5050462-2
	.026 - .033 (0.66 - 0.84)	30µ Gold	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32383-ND*	.42	.34	5050864-5
	.026 - .033 (0.66 - 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A24872-ND	.58	.46	50864-8
	.026 - .033 (0.66 - 0.84)	Tin	Tin	.080 (2.03)	.257 (6.53)	.061 (1.55)	A32384-ND*	.54	.43	5050864-8
	.030 - .033 (0.76 - 0.84)	30µ Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A32385-ND*	.41	.33	2-5331677-2
	.030 - .033 (0.76 - 0.84)	30µ Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24875-ND*	.47	.38	2-331677-6
	.034 - .041 (0.86 - 1.04)	30µ Gold	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A32386-ND*	.46	.37	5050865-3
	.034 - .041 (0.86 - 1.04)	Tin	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24884-ND	.77	.62	50865-6
	.037 - .040 (0.94 - 1.02)	30µ Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24888-ND*	.82	.66	1-332070-4
	.030 - .033 (0.76 - 0.84)	30µ Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24889-ND	.46	.37	2-332070-5
	.030 - .033 (0.76 - 0.84)	30µ Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A32387-ND*	.43	.35	2-5332070-5
	.037 - .040 (0.94 - 1.02)	30µ Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A32388-ND*	.41	.34	2-5332070-9
	.042 - .049 (1.07 - 1.24)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32389-ND*	.47	.38	5050871-1
	.050 - .057 (1.27 - 1.45)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24902-ND	1.04	.84	1-50871-0
	.050 - .057 (1.27 - 1.45)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32390-ND*	.97	.78	1-5050871-0
	.056 - .065 (1.42 - 1.65)	30µ Gold	Gold Flash	.118 (3.00)	.288 (7.31)	.101 (2.57)	A24905-ND*	1.12	.90	1-50871-8
	.056 - .065 (1.42 - 1.65)	30µ Gold	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32391-ND*	.47	.38	1-5050871-9
	.056 - .065 (1.42 - 1.65)	Tin	Tin	.118 (3.00)	.288 (7.31)	.101 (2.57)	A32392-ND*	.56	.45	2-5050871-4
Knockout Bottom	.013 - .021 (0.33 - 0.51)	30µ Gold	Gold Flash	.059 (1.50)	.142 (3.61)	.038 (0.97)	A26252-ND*	.53	.43	3-330808-8
	.013 - .020 (0.33 - 0.51)	30µ Gold	Tin	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26256-ND	1.02	.82	1-332095-9
	.013 - .020 (0.33 - 0.51)	30µ Gold	Tin	.059 (1.50)	.178 (4.52)	.039 (0.99)	A32393-ND*	.96	.77	1-5332095-9
	.013 - .020 (0.33 - 0.51)	30µ Gold	Gold Flash	.059 (1.50)	.178 (4.52)	.039 (0.99)	A26258-ND*	.48	.39	2-332095-2
	.022 - .025 (0.56 - 0.64)	30µ Gold	Tin	.070 (1.78)	.138 (3.51)	.050 (1.27)	A24858-ND	.49	.40	3-331272-5
	.030 - .033 (0.76 - 0.84)	30µ Gold	Gold Flash	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24876-ND*	.56	.45	2-331677-9
	.030 - .033 (0.76 - 0.84)	30µ Gold	Tin	.080 (2.03)	.138 (3.51)	.061 (1.55)	A24878-ND	.52	.42	3-331677-4
	.034 - .041 (0.86 - 1.04)	30µ Gold	Gold Flash	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24881-ND*	1.23	.99	50865-2
	.034 - .041 (0.86 - 1.04)	30µ Gold	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24882-ND	.48	.39	50865-1
	.034 - .041 (0.86 - 1.04)	30µ Gold	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A32394-ND*	.45	.36	5050865-1
	.034 - .041 (0.86 - 1.04)	Tin	Tin	.089 (2.26)	.260 (6.60)	.070 (1.78)	A24885-ND	.57	.46	50865-7
	.037 - .040 (0.94 - 1.02)	30µ Gold	Gold Flash	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24887-ND*	.94	.76	1-332070-7
	.037 - .040 (0.94 - 1.02)	30µ Gold	Tin	.089 (2.26)	.143 (3.63)	.070 (1.78)	A24892-ND	.44	.36	3-332070-5
Bullet Nose Bottom										
Loose Piece	.012 - .021 (0.30 - 0.53)	30µ Gold	Tin	.066 (1.67)	.184 (4.64)	.042 (1.07)	A32395-ND*	.23	.19	5645946-2
	.015 - .021 (0.38 - 0.53)	30µ Gold	Tin	.066 (1.67)	.158 (4.01)	.042 (1.07)	A24844-ND	.56	.46	645945-2
	.015 - .021 (0.38 - 0.53)	30µ Gold	Tin	.066 (1.67)	.158 (4.01)	.042 (1.07)	A32396-ND*	.53	.43	5645945-2
	.015 - .021 (0.38 - 0.53)	Tin	Tin	.066 (1.67)	.158 (4.01)	.042 (1.07)	A24845-ND	.70	.56	645945-1
	.015 - .021 (0.38 - 0.53)	Tin	Tin	.066 (1.67)	.158 (4.01)	.042 (1.07)	A32397-ND*	.65	.53	5645945-1
	.037 - .041 (0.94 - 1.04)	30µ Gold	Tin	.089 (2.26)	.260 (6.60)	.074 (1.88)	A32398-ND*	.33	.27	5645500-1
	.042 - .049 (1.07 - 1.24)	Gold Flash	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A32399-ND*	.96	.77	5645980-2
	.042 - .049 (1.07 - 1.24)	Tin	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A32400-ND*	.37	.30	5645980-1
Carrier Strip with Sealant	.028 - .033 (0.71 - 0.84)	30µ Gold	Tin	.080 (2.03)	.290 (7.37)	.061 (1.55)	A24879-ND*	—	.26	1-645986-2
	.028 - .033 (0.71 - 0.84)	Tin	Tin	.080 (2.03)	.290 (7.37)	.061 (1.55)	A28507-ND*	—	.61	1-645986-1
Carrier Strip without Sealant	.037 - .041 (0.94 - 1.04)	30µ Gold	Tin	.089 (2.03)	.260 (7.37)	.074 (1.55)	A24896-ND*	—	.35	1-645502-1
	.042 - .049 (1.07 - 1.24)	Gold Flash	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A29045-ND*	—	.56	1-645979-2
	.042 - .049 (1.07 - 1.24)	Tin	Tin	.120 (3.05)	.308 (7.82)	.100 (2.54)	A29069-ND*	—	.31	645979-1

* ***RoHS Compliant***

ON-SHORE TECHNOLOGY, INC.

Surface Mount I.C. Sockets

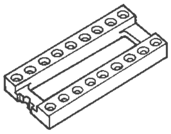

Special Features/Applications: • For surface mounted technology • Tin for solder must be in the pc board **Technical Data:** • Insulator body material: glass-filled polyethersulphone • Temperature range: 55°C ~ 200°C continuous • Solder temperature: 280°C, intermittent **Plating:** • Pin tin plated minimum 80µ nickel+minimum 150µ tin-lead • High temperature insulator

No. of Pins	Contact Spacing Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	1,000
Surface Mount - Screw Machined Pins without Solder Tail						
6	.300 (7.62)	ED2201-ND	.80	.67	.56	.46
8	.300 (7.62)	ED2202-ND	1.07	.89	.74	.62
14	.300 (7.62)	ED2203-ND	1.87	1.55	1.29	1.08
16	.300 (7.62)	ED2204-ND	2.14	1.77	1.48	1.23
18	.300 (7.62)	ED2205-ND	2.16	1.79	1.50	1.24
20	.300 (7.62)	ED2206-ND	2.40	1.99	1.66	1.38
22	.400 (10.16)	ED2207-ND	2.64	2.19	1.83	1.52
24	.600 (15.24)	ED2208-ND	3.21	2.66	2.22	1.84
28	.600 (15.24)	ED2209-ND	3.74	3.10	2.58	2.14
40	.600 (15.24)	ED2211-ND	4.81	3.98	3.32	2.76
48	.600 (15.24)	ED2212-ND	5.77	4.78	3.98	3.31
64	.600 (15.24)	ED2213-ND	7.69	6.37	5.31	4.41

NORCOMP

DIN Connectors

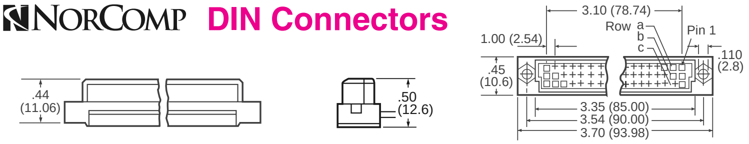

Contacts fitted in rows a and c only.

No. of Rows	No. of Pins	Type	Digi-Key Part No.	Price Each 1	10	100	NorComp Part No.
3	64	Socket-IDC Type	T8064-ND	13.60	11.73	7.98	689-096-290-001
3	64	Socket-IDC Type	T8064A-ND◊ ***NEW!***	23.45	20.22	13.75	689-096-290R001
—	64	Strain Relief	T0064-ND	1.07	.93	.63	164-096-001-000

◊ ***RoHS Compliant***
See **3M Ribbon Cable** in Index for Ribbon Cable (MC64M-ND and MC64G-ND).

OK Industries
Division of Jonard Industries Corp.

Socket Wrap I.D.

- Press fit to socket pins • Improves wiring speed • Instant pin numbering • Reduces wiring errors • Large space for user information • Simplifies troubleshooting

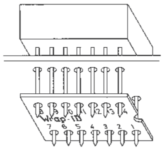

Now offering an exciting, low cost item used to identify pin numbers on wire-wrapping sockets. Consisting of a socket-sized plastic panel with numbered holes in the pin location, the Socket Wrap-ID is simply slipped onto the socket before wrapping. You can also write on them for easy identification of location, IC part number, function, etc. These unique items greatly simplify both initial wire-wrapping and subsequent trouble-shooting or repair. A great help to hobbyists, technicians, and production facilities alike.

Spacing Inch (mm)	Description	Digi-Key Part No.	Pricing 5	25	50	100
.3 (7.62)	8 Pin I.D.	K470-ND	2.95	9.22	12.91	23.90
	14 Pin I.D.	K266-ND	2.95	9.22	12.91	23.90
	16 Pin I.D.	K267-ND	2.95	9.22	12.91	23.90
	18 Pin I.D.	K496-ND	5.90	18.44	25.81	47.79
	20 Pin I.D.	K269-ND	5.90	18.44	25.81	47.79
	96 Pin I.D.	K514-ND	11.80	36.88	51.63	95.58
.4 (10.16)	22 Pin I.D.	K497-ND	5.90	18.44	25.81	47.79
	24 Pin I.D.	K495-ND	5.90	18.44	25.81	47.79
.6 (15.24)	28 Pin I.D.	K272-ND	5.90	18.44	25.81	47.79
	40 Pin I.D.	K486-ND	11.80	36.88	51.63	95.58

MILL-MAX®

Low Cost PLCC Sockets

Fig. 1 — Thru-Hole Mount

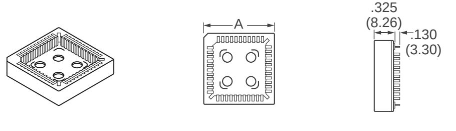

• Accepts JEDEC PLCCs MO-052 AE • Holes for drainage • Standoffs provide clearance for heat dissipation and cleaning • Internal standoffs ensure proper positioning of chip carrier in socket • Easy access for probing installed chip carrier

Fig. 2 — Surface Mount

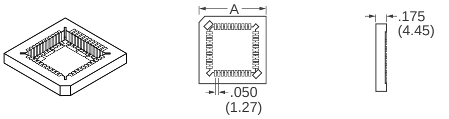

• Accepts JEDEC PLCCs MO-052 AE • Low profile for high density PC board stacking
• Standoffs provide clearance for heat dissipation and cleaning

No. of Pins	Dimensions - Inch (mm) A	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
Fig. 1 — Thru-Hole Mount						
20	0.613 (15.57)	ED80021-ND	.91	.77	.63	940-99-020-24-000000
28	0.720 (18.29)	ED80022-ND	.80	.68	.56	940-99-028-24-000000
32	0.820 (20.83) / .722 (18.34)	ED80023-ND	.82	.69	.57	940-99-032-24-000000
44	0.920 (23.37)	ED80024-ND	.83	.71	.58	940-99-044-24-000000
52	1.020 (25.91)	ED80025-ND	.89	.76	.62	940-99-052-24-000000
68	1.220 (30.99)	ED80026-ND	.91	.78	.64	940-99-068-24-000000
84	1.420 (36.07)	ED80027-ND	1.14	.97	.79	940-99-084-24-000000
NEW! Fig. 1 — Thru-Hole Mount, RoHS Compliant NEW!						
20	0.613 (15.57)	ED90005-ND	.98	.84	.68	940-44-020-24-000000
28	0.720 (18.29)	ED90006-ND	.98	.84	.69	940-44-028-24-000000
32	0.820 (20.83) / .722 (18.34)	ED90007-ND	.98	.84	.69	940-44-032-24-000000
44	0.920 (23.37)	ED90008-ND	.98	.84	.69	940-44-044-24-000000
52	1.020 (25.91)	ED90009-ND	1.05	.89	.73	940-44-052-24-000000
68	1.220 (30.99)	ED90010-ND	1.21	1.03	.84	940-44-068-24-000000
84	1.420 (36.07)	ED90011-ND	1.35	1.15	.94	940-44-084-24-000000
Fig. 2 — Surface Mount						
20	0.613 (15.57)	ED80028-ND	.83	.71	.58	940-99-020-17-400000
28	0.720 (18.29)	ED80029-ND	.92	.79	.64	940-99-028-17-400000
32	0.820 (20.83) / .720 (18.29)	ED80030-ND	.73	.63	.51	940-99-032-17-400000
44	0.920 (23.37)	ED80031-ND	.87	.74	.61	940-99-044-17-400000
52	1.020 (25.91)	ED80032-ND	1.06	.90	.74	940-99-052-17-400000
68	1.220 (30.99)	ED80033-ND	1.04	.88	.72	940-99-068-17-400000
84	1.420 (36.07)	ED80034-ND	1.32	1.12	.92	940-99-084-17-400000
NEW! Fig. 2 — Surface Mount, RoHS Compliant NEW!						
20	0.613 (15.57)	ED90012-ND	.96	.81	.67	940-44-020-17-400000
28	0.720 (18.29)	ED90013-ND	.99	.84	.69	940-44-028-17-400000
32	0.820 (20.83) / .720 (18.29)	ED90014-ND	.86	.73	.60	940-44-032-17-400000
44	0.920 (23.37)	ED90015-ND	1.08	.91	.75	940-44-044-17-400000
52	1.020 (25.91)	ED90016-ND	1.17	1.00	.82	940-44-052-17-400000
68	1.220 (30.99)	ED90017-ND	1.40	1.19	.98	940-44-068-17-400000
84	1.420 (36.07)	ED90018-ND	1.55	1.32	1.08	940-44-084-17-400000

3M Intra-Connector™

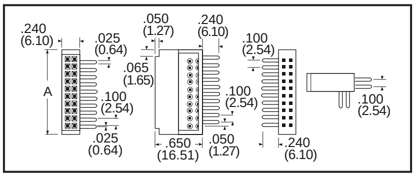

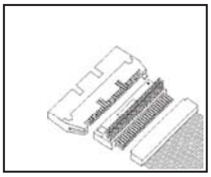

When you wanted to test for a problem that might lie on the circuit board or in the cable, you had a problem. Inaccessible? Not with a 3M ESP Intra-Connector™ system. The Intra-Connector mates in-line with standard double row socket connectors. It has one set of female contacts, but two sets of male contacts at right angles. So, it provides instant line-by-line "probe-ability." The pins can also be used to make daisy chaining possible from a single connector cable end. Modified configurations are quickly available for special connections. The Intra-Connector system provides both straight-in and right angle functions. It mates with a standard .10" x .10" (2.54mm x 2.54mm) dual row connector or PC board-mounted .025" (.64mm) square pins. Two Intra-Connector systems used with the Intra-Switch™ system form a complete test assembly for probing signals under no load and full-load conditions. Contacts are non-corrosive Alloy 770; body is glass-filled polyester thermo-plastic.

No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Price Each
20	1.160 (29.46)	922576-20-ND	14.84
26	1.460 (37.08)	922576-26-ND	15.45
34	1.860 (47.24)	922576-34-ND	17.24
40	2.160 (54.86)	922576-40-ND	18.90
50	2.660 (67.56)	922576-50-ND	20.45
60	3.160 (80.26)	922576-60-ND	23.77

3M Intra-Switch™

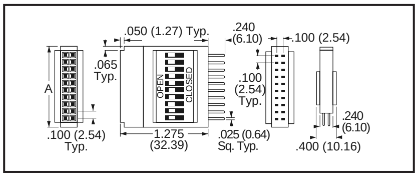

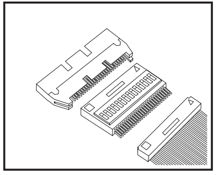

There are a lot of complicated, time consuming ways to interrupt a signal line on an assembly — some may even be damaging to your PC board. But there's one easy way; Intra-Switch™ from 3M ESP. Simply by inserting the Intra-Switch™ connector between mating system connectors you have instant line-by-line switching. The low profile design and recessed switch buttons give you room to work in confined areas. Using a pencil or probe tip, any or all switches may be actuated. Applications include switching command signals to or from test equipment and programming optional preset logic functions. Switch buttons are recessed to prevent accidental switching. "Open" and "closed" positions are clearly marked, molded-in the body. Contacts are non-corrosive Alloy 770; body is glass-filled polyester thermoplastic. Intra-Switch is compatible with most sockets and mating headers for flat cable, including 3M, T&B/Ansley, Berg, Amp, Symbex and many others.

No. of Contacts	Dimension A Inch (mm)	Digi-Key Part No.	Price Each
20	1.160 (29.46)	922578-20-ND	29.62
34	1.860 (47.24)	922578-34-ND	38.16
40	2.160 (54.86)	922578-40-ND	46.39
50	2.660 (67.56)	922578-50-ND	41.36

Dual-In-Line and PLCC Sockets

Fig. 1 - Dual-In-Line Sockets, Closed Frame

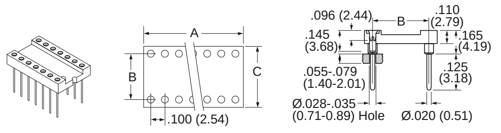

- Closed frame insulator withstands high mechanical impact.
- Low profile
- Plating; Sleeve (Pin) 200µ"Sn and Contact (Clip) 30µ" Au.

Fig. 2 - Dual-In-Line Sockets, Open Frame

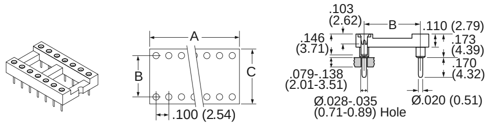

- DIP sockets with solder tail length of .170" (4.32mm), allowing application on multilayer PCBs up to .139" (3.53mm).
- Plating; Sleeve (Pin) 200µ"Sn and Contact (Clip) 30µ" Au.

Fig. 3 - Compact PLCC Sockets

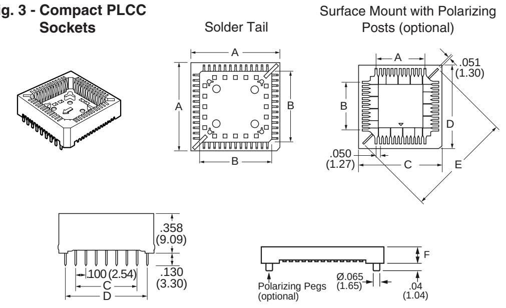

- Designed for JEDEC type devices.
- Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads.
- The brown PPS (Ryton R-4) insulator has optional polarizing pegs (PP).

No. of Pins	Dimensions (Inch)						Digi-Key Part No.	Price Each			Mill-Max Part No.
	A	B	C	D	E	F		1	10	100	
Fig. 1 — Dual-In-Line Sockets, Solder Tail Closed Frame											
8	0.4	0.3	0.4	—	—	—	ED60000-ND	.42	.29	.24	210-93-308-41-001000
14	0.7	0.3	0.4	—	—	—	ED60001-ND	.73	.51	.41	210-93-314-41-001000
16	0.8	0.3	0.4	—	—	—	ED60002-ND	.83	.58	.47	210-93-316-41-001000
24	1.2	0.3	0.4	—	—	—	ED60003-ND	1.25	.87	.71	210-93-324-41-001000
24	1.2	0.6	0.7	—	—	—	ED60004-ND	1.25	.87	.71	210-93-624-41-001000
28	1.4	0.6	0.7	—	—	—	ED60005-ND	1.46	1.02	.82	210-93-628-41-001000
32	1.6	0.6	0.7	—	—	—	ED60006-ND	1.67	1.16	.94	210-93-632-41-001000
40	2.0	0.6	0.7	—	—	—	ED60007-ND	2.09	1.45	1.17	210-93-640-41-001000
Fig. 2 — Dual-In-Line Sockets, Long Solder Tail for Multilayer PC-Boards, Open Frame											
8	0.4	0.3	0.4	—	—	—	ED60008-ND	.59	.41	.33	111-93-308-41-001000
14	0.7	0.3	0.4	—	—	—	ED60009-ND	.98	.69	.56	111-93-314-41-001000
16	0.8	0.3	0.4	—	—	—	ED60010-ND	1.13	.78	.63	111-93-316-41-001000
20	1.0	0.3	0.4	—	—	—	ED60011-ND	1.36	.95	.77	111-93-320-41-001000
24	1.2	0.3	0.4	—	—	—	ED60012-ND	1.63	1.13	.92	111-93-324-41-001000
24	1.2	0.6	0.7	—	—	—	ED60013-ND	1.63	1.13	.92	111-93-624-41-001000
28	1.4	0.6	0.7	—	—	—	ED60014-ND	1.90	1.32	1.07	111-93-628-41-001000
32	1.6	0.6	0.7	—	—	—	ED60015-ND	2.17	1.51	1.22	111-93-632-41-001000
40	2.0	0.6	0.7	—	—	—	ED60016-ND	2.72	1.89	1.53	111-93-640-41-001000
Fig. 3 — Compact PLCC Sockets Solder Tail											
20	.590	.360	.200	.400	—	—	ED80000-ND	1.11	1.00	.89	540-99-020-24-000000
28	.690	.460	.300	.500	—	—	ED80001-ND	1.37	1.24	1.10	540-99-028-24-000000
32*	.783/.683	.564/.464	.400/.300	.600/.500	—	—	ED80002-ND	1.49	1.35	1.20	540-99-032-24-000000
44	.890	.660	.500	.700	—	—	ED80003-ND	1.48	1.33	1.19	540-99-044-24-000000
52	.990	.760	.600	.800	—	—	ED80004-ND	2.06	1.86	1.65	540-99-052-24-000000
68	1.190	.960	.800	1.000	—	—	ED80005-ND	1.87	1.68	1.50	540-99-068-24-000000
84	1.390	1.160	1.000	1.200	—	—	ED80006-ND	2.39	2.15	1.91	540-99-084-24-000000
NEW! Fig. 3 — Compact PLCC Sockets Solder Tail, RoHS Compliant NEW!											
28	.690	.460	.300	.500	—	—	ED90019-ND	2.09	1.88	1.67	540-44-028-24-000000
32*	.783/.683	.564/.464	.400/.300	.600/.500	—	—	ED90020-ND	2.09	1.88	1.67	540-44-032-24-000000
44	.890	.660	.500	.700	—	—	ED90021-ND	2.40	2.17	1.93	540-44-044-24-000000
52	.990	.760	.600	.800	—	—	ED90022-ND	2.65	2.39	2.12	540-44-052-24-000000
68	1.190	.960	.800	1.000	—	—	ED90023-ND	2.83	2.55	2.27	540-44-068-24-000000
84	1.390	1.160	1.000	1.200	—	—	ED90024-ND	3.40	3.06	2.72	540-44-084-24-000000
Fig. 3 — Compact PLCC Sockets Surface Mount											
20	.200	.200	.585	.585	.657	.180	ED80007-ND	1.26	1.13	1.01	540-99-020-17-400000
28	.300	.300	.685	.685	.799	.180	ED80008-ND	1.29	1.16	1.03	540-99-028-17-400000
32*	.300	.400	.665	.766	.885	.168	ED80009-ND	1.37	1.24	1.10	540-99-032-17-400000
44	.500	.500	.885	.885	1.082	.180	ED80010-ND	1.67	1.51	1.34	540-99-044-17-400000
52	.600	.600	1.000	1.000	1.224	.180	ED80011-ND	1.78	1.60	1.42	540-99-052-17-400000
68	.800	.800	1.202	1.202	1.507	.180	ED80012-ND	1.98	1.78	1.59	540-99-068-17-400000
84	1.000	1.000	1.400	1.400	1.791	.180	ED80013-ND	2.21	1.99	1.77	540-99-084-17-400000
NEW! Fig. 3 — Compact PLCC Sockets Surface Mount, RoHS Compliant NEW!											
20	.200	.200	.585	.585	.657	.180	ED90025-ND	2.17	1.96	1.74	540-44-020-17-400000
28	.300	.300	.685	.685	.799	.180	ED90026-ND	2.28	2.05	1.83	540-44-028-17-400000
32*	.300	.400	.665	.766	.885	.168	ED90027-ND	1.46	1.31	1.17	540-44-032-17-400000
44	.500	.500	.885	.885	1.082	.180	ED90028-ND	1.86	1.68	1.49	540-44-044-17-400000
52	.600	.600	1.000	1.000	1.224	.180	ED90029-ND	2.74	2.47	2.19	540-44-052-17-400000
68	.800	.800	1.202	1.202	1.507	.180	ED90030-ND	2.81	2.53	2.25	540-44-068-17-400000
84	1.000	1.000	1.400	1.400	1.791	.180	ED90031-ND	3.48	3.14	2.79	540-44-084-17-400000
Fig. 3 — Compact PLCC Sockets Surface Mount with Polarizing Posts											
20	.200	.200	.585	.585	.657	.180	ED80014-ND	1.26	1.13	1.01	540-99-020-17-400200
28	.300	.300	.685	.685	.799	.180	ED80015-ND	1.29	1.16	1.03	540-99-028-17-400200
32*	.300	.400	.665	.766	.885	.168	ED80016-ND	1.37	1.24	1.10	540-99-032-17-400200
44	.500	.500	.885	.885	1.082	.180	ED80017-ND	1.67	1.51	1.34	540-99-044-17-400200
52	.600	.600	1.000	1.000	1.224	.180	ED80018-ND	1.78	1.60	1.42	540-99-052-17-400200
68	.800	.800	1.202	1.202	1.507	.180	ED80019-ND	1.98	1.78	1.59	540-99-068-17-400200
84	1.000	1.000	1.400	1.400	1.791	.180	ED80020-ND	2.21	1.99	1.77	540-99-084-17-400200

* Rectangular

Pin Grid Array Sockets

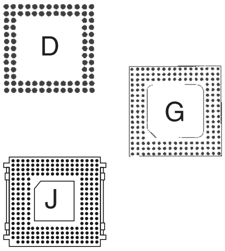

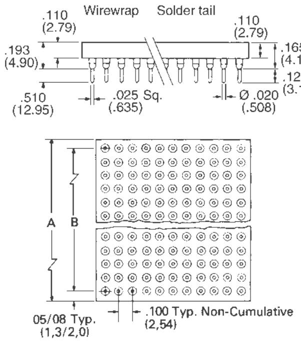

MATERIAL: • **Insulator body:** Standard material is glass filled thermoplastic polyester (PCT), self-extinguishing, rated UL94V-0 • **Color:** Black • **Receptacle (sleeve):** Screw-machined brass (QQ-B-626), plated 200µ" tin-lead (SnPb 90/10) over 80-120µ" nickel • **Pin:** Screw-machined brass (QQ-B-626), plated 200µ" tin-lead (SnPb 90/10) over 80-120µ" nickel • **Contact (clip):** Stamped Beryllium-copper (QQ-C-533) heat treated, plated gold flash, 30µ" gold, over 80-120µ" nickel **ELECTRICAL DATA:** • **Rated Current:** 1A • **Rated Voltage:** 100 VRMS/150VDC • **Contact Resistance:** 10mΩ maximum • **Insulation resistance:** 10,000MΩ minimum • **Dielectric Strength:** 1000VRMS minimum • **Capacity:** 0.8pF maximum • **Operating Temperature Range:** -55°C ~ 125°C

Pin Grid Array Size	No. of Pins	Foot-print (See Diag.)	Insulator Size Inch (mm)		Description (Type of Contacts)	Frame Style	Digi-Key Part No.	Price Each		
			A	B				1	10	100
13x13	88	D	1.3 (33.02)	1.2 (30.48)	3 Level Wire Wrap	Open	ED2021-ND	11.49	9.97	8.05
17x17	168	G	1.7 (43.18)	1.6 (40.64)	Solder-Tail	Open	ED2030-ND	17.44	15.12	12.21
18x18	223	J	1.8 (45.72)	1.7 (43.18)	Solder-Tail	Open	ED2046-ND	31.04	26.91	21.74

Miniature Dual-In-Line Socket Carriers

- Reusable carriers
- Pin Carrier Assemblies assure maximum ventilation and better visibility for inspection and repair
- Easy mounting due to the ***RECYCLABLE PLASTIC CARRIER***. No solder wicking problems.

Requires .039" (.99mm) minimum diameter holes in PCB.

Insertion Characteristics: 3-finger.
Plating: Sleeve (Pin) – 200µ" Sn.; Contact (Clip) – 30µ" Au.

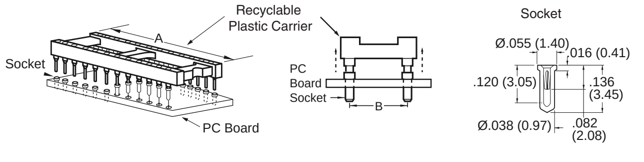

No. of Pins	Dim. – Inch (mm)		Digi-Key Part No.	Pricing				Mill-Max Part No.
	A	B		1	10	100	500	
8	0.4 (10.16)	0.3 (7.62)	ED6008-ND	.93	6.45	52.08	223.20	614-93-308-31-012000
14	0.7 (17.78)	0.3 (7.62)	ED6014-ND	1.63	11.28	91.14	390.60	614-93-314-31-012000
16	0.8 (20.32)	0.3 (7.62)	ED6016-ND	1.86	12.90	104.16	446.40	614-93-316-31-012000
18	0.9 (22.86)	0.3 (7.62)	ED6018-ND	2.09	14.51	117.18	502.20	614-93-318-31-012000
20	1.0 (25.40)	0.3 (7.62)	ED6020-ND	2.33	16.12	130.20	558.00	614-93-320-31-012000
24	1.2 (30.48)	0.3 (7.62)	ED6024-ND	2.79	19.34	156.24	669.60	614-93-324-31-012000
28	1.4 (35.56)	0.3 (7.62)	ED6028-ND	3.26	22.57	182.28	781.20	614-93-328-31-012000
24	1.2 (30.48)	0.6 (15.24)	ED6124-ND	2.79	19.34	156.24	669.60	614-93-624-31-012000
28	1.4 (35.56)	0.6 (15.24)	ED6128-ND	3.26	22.57	182.28	781.20	614-93-628-31-012000
32	1.6 (40.64)	0.6 (15.24)	ED6132-ND	3.72	25.79	208.32	892.80	614-93-632-31-012000
40	2.0 (50.80)	0.6 (15.24)	ED6140-ND	4.65	32.24	260.40	1116.00	614-93-640-31-012000

MILL-MAX Dual-In-Line Sockets – Right Angle Mount Closed Frame

- For components to be mounted perpendicularly to the PCB, such as LED displays.
- Horizontal mount solder tails are available with either .300" (7.62mm) [standard] or .100" (2.54mm) row spacing.

Fig. 1

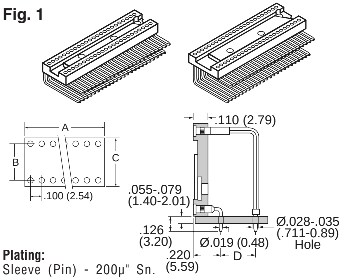

Plating:
Sleeve (Pin) - 200µ" Sn.
Contact (Clip) - 30µ" Au.

Fig. 2

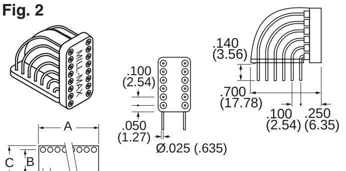

Plating:
Pin - 200µ" Sn; Contact - 200µ" Sn

Fig.	No. of Pins	Dimensions – Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
1	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58407-ND	2.46	1.71	1.38	1.19	.99	299-93-306-10-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58408-ND	3.28	2.28	1.84	1.58	1.32	299-93-308-10-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58409-ND	3.93	2.73	2.21	1.89	1.58	299-93-310-10-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58410-ND	4.71	3.27	2.64	2.27	1.89	299-93-312-10-001000
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58411-ND	5.50	3.82	3.08	2.64	2.20	299-93-314-10-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58412-ND	6.29	4.36	3.53	3.02	2.52	299-93-316-10-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58413-ND	7.07	4.91	3.97	3.40	2.83	299-93-318-10-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58414-ND	7.58	5.26	4.25	3.64	3.04	299-93-320-10-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	0.3 (7.62)	ED58415-ND	9.10	6.31	5.10	4.37	3.64	299-93-324-10-001000
1	8	0.4 (10.16)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58416-ND	3.80	2.64	2.13	1.83	1.52	299-93-608-10-002000
	10	0.5 (12.70)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58417-ND	4.55	3.16	2.55	2.19	1.82	299-93-610-10-002000
	12	0.6 (15.24)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58418-ND	5.46	3.79	3.06	2.63	2.19	299-93-612-10-002000
	14	0.7 (17.78)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58419-ND	6.37	4.42	3.57	3.06	2.55	299-93-614-10-002000
	16	0.8 (20.30)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58420-ND	7.28	5.05	4.08	3.50	2.92	299-93-616-10-002000
	18	0.9 (22.86)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58421-ND	8.19	5.68	4.59	3.94	3.28	299-93-618-10-002000
	20	1.0 (25.40)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58422-ND	8.78	6.09	4.92	4.22	3.52	299-93-620-10-002000
	22	1.1 (27.94)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58423-ND	9.66	6.70	5.41	4.64	3.87	299-93-622-10-002000
	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58424-ND	10.54	7.31	5.91	5.06	4.22	299-93-624-10-002000
	26	1.3 (33.02)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58425-ND	11.42	7.92	6.40	5.49	4.57	299-93-626-10-002000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58426-ND	12.30	8.53	6.89	5.91	4.92	299-93-628-10-002000
	30	1.5 (38.10)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58427-ND	13.17	9.14	7.38	6.33	5.27	299-93-630-10-002000
	32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58428-ND	14.05	9.75	7.87	6.75	5.63	299-93-632-10-002000
	36	1.8 (45.72)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58429-ND	15.81	10.97	8.86	7.59	6.33	299-93-636-10-002000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	0.3 (7.62)	ED58430-ND	17.57	12.18	9.84	8.44	7.03	299-93-640-10-002000
1	6	0.3 (7.62)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58431-ND	2.40	1.67	1.35	1.16	.97	299-93-306-11-001000
	8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58432-ND	3.20	2.22	1.80	1.54	1.29	299-93-308-11-001000
	10	0.5 (12.70)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58433-ND	3.84	2.67	2.16	1.85	1.54	299-93-310-11-001000
	12	0.6 (15.24)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58434-ND	4.61	3.20	2.58	2.22	1.85	299-93-312-11-001000
	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58435-ND	5.37	3.73	3.01	2.58	2.15	299-93-314-11-001000
	16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58436-ND	6.14	4.26	3.44	2.95	2.46	299-93-316-11-001000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58437-ND	6.91	4.79	3.87	3.32	2.77	299-93-318-11-001000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58438-ND	7.41	5.14	4.15	3.56	2.97	299-93-320-11-001000
	24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	0.1 (2.54)	ED58439-ND	8.89	6.17	4.98	4.27	3.56	299-93-324-11-001000
2	10	0.5 (12.70)	0.2 (5.08)	0.3 (7.62)	—	ED7800-ND	8.41	5.84	4.72	4.04	3.37	299-99-210-12-001800

Dual-In-Line Sockets – Open Frame (Screw Machined)

Solder Tail

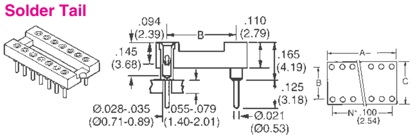

Most popular line of standard low profile IC-Sockets. Open frame design leaves space beneath IC for improved heat dissipation, easier PCB cleaning and inspection. **Insertion Characteristics:** 4-finger standard **Plating: For ED3308-ED3964:** Sleeve (Pin) – 200µ" Sn. Contact (Clip) – 30µ" Au. **For ED3108-ED3764:** Sleeve (Pin) – 200µ" Sn. Contact (Clip) – 150µ" Sn. **For ED56083-ED56646:** Sleeve (Pin) – 10µ" Au. Contact (Clip) – 30µ" Au.

Wire Wrap

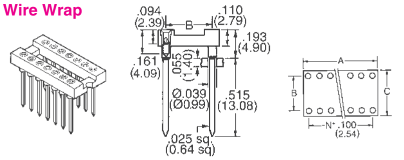

Solderless wire wrap terminals are firmly locked in the insulator body to withstand torque of wrapping tool. Length of terminal for three-level wrapping. **Insertion Characteristics:** 4-finger standard **Plating: For ED4308-ED4964:** Sleeve (Pin) – 200µ" Sn. Contact (Clip) – 30µ" Au. **For ED57083-ED57406:** Sleeve (Pin) – 10µ" Au. Contact (Clip) – 30µ" Au

Low Profile

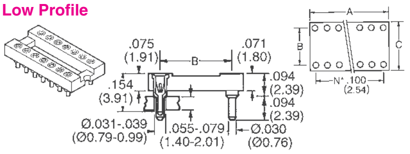

"Ultra low profile" Dual-in-line sockets are equipped with specially designed contacts allowing .095" (2.41mm) height above PCB. Special short contact requires .075" (1.91mm) insertion depth only. Solder tail diameter .030" (.76mm). **Insertion Characteristics:** 4-finger short contact **Plating:** Sleeve (Pin) – 200µ" Sn. Contact (Clip) – 30µ" Au.

No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	500	Mill-Max Part No.
Solder Tail (Gold)									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED3308-ND	.42	.29	.24	.20	110-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED3314-ND	.73	.51	.41	.36	110-93-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED3316-ND	.83	.58	.47	.40	110-93-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED3318-ND	.94	.65	.53	.45	110-93-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED3320-ND	1.04	.73	.59	.51	110-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED3324-ND	1.25	.87	.71	.61	110-93-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED3328-ND	1.46	1.02	.82	.71	110-93-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED3422-ND	1.15	.80	.65	.56	110-93-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED3424-ND	1.25	.87	.71	.61	110-93-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED3624-ND	1.25	.87	.71	.61	110-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED3628-ND	1.46	1.02	.82	.71	110-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED3632-ND	1.67	1.16	.94	.81	110-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED3640-ND	2.09	1.45	1.17	1.01	110-93-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED3648-ND	2.50	1.74	1.41	1.21	110-93-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED3950-ND	2.61	1.81	1.46	1.26	110-93-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED3964-ND	3.34	2.32	1.87	1.61	110-93-964-41-001000
NEW! Solder Tail (Gold), RoHS Compliant NEW!									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90032-ND	.46	.32	.26	.22	110-43-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90033-ND	.80	.56	.45	.39	110-43-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED90034-ND	.92	.64	.52	.45	110-43-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90035-ND	1.03	.72	.58	.50	110-43-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90036-ND	1.15	.80	.65	.56	110-43-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90037-ND	1.38	.96	.78	.67	110-43-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90038-ND	1.61	1.12	.90	.78	110-43-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED90039-ND	1.26	.88	.71	.61	110-43-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED90040-ND	1.38	.96	.78	.67	110-43-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90041-ND	1.38	.96	.78	.67	110-43-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90042-ND	1.61	1.12	.90	.78	110-43-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90043-ND	1.84	1.28	1.03	.89	110-43-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90044-ND	2.30	1.60	1.29	1.11	110-43-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED90045-ND	2.75	1.91	1.55	1.33	110-43-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED90046-ND	2.87	1.99	1.61	1.38	110-43-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED90047-ND	3.67	2.55	2.06	1.77	110-43-964-41-001000
Solder Tail (Gold)									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED56083-ND	.59	.42	.34	.29	110-13-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED56143-ND	1.04	.72	.58	.50	110-13-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED56163-ND	1.18	.82	.67	.57	110-13-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED56183-ND	1.33	.93	.75	.64	110-13-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED56203-ND	1.48	1.03	.83	.71	110-13-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED56243-ND	1.77	1.23	1.00	.86	110-13-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED56283-ND	2.07	1.44	1.16	1.00	110-13-328-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED56246-ND	1.77	1.23	1.00	.86	110-13-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED56286-ND	2.07	1.44	1.16	1.00	110-13-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED56326-ND	2.36	1.64	1.33	1.14	110-13-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED56406-ND	2.96	2.05	1.66	1.42	110-13-640-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED56646-ND	4.73	3.28	2.65	2.27	110-13-964-41-001000
Solder Tail (Tin)									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED3108-ND	.32	.23	.19	.16	110-99-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED3114-ND	.57	.40	.32	.28	110-99-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED3116-ND	.65	.45	.37	.32	110-99-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED3118-ND	.73	.51	.41	.35	110-99-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED3120-ND	.81	.57	.46	.39	110-99-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED3124-ND	.97	.68	.55	.47	110-99-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED3128-ND	1.13	.79	.64	.55	110-99-328-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED3524-ND	.97	.68	.55	.47	110-99-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED3724-ND	.97	.68	.55	.47	110-99-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED3728-ND	1.13	.79	.64	.55	110-99-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED3732-ND	1.30	.90	.73	.63	110-99-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED3740-ND	1.62	1.13	.91	.78	110-99-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED3748-ND	1.94	1.35	1.09	.94	110-99-648-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED3764-ND	2.59	1.80	1.46	1.25	110-99-964-41-001000
NEW! Solder Tail (Tin), RoHS Compliant NEW!									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED90048-ND	.36	.25	.20	.18	110-44-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED90049-ND	.63	.44	.36	.31	110-44-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED90050-ND	.71	.50	.40	.35	110-44-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED90051-ND	.80	.56	.45	.39	110-44-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED90052-ND	.89	.62	.50	.43	110-44-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED90053-ND	1.07	.75	.61	.52	110-44-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED90054-ND	1.25	.87	.70	.60	110-44-328-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED90055-ND	1.07	.75	.61	.52	110-44-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED90056-ND	1.07	.75	.61	.52	110-44-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED90057-ND	1.25	.87	.70	.60	110-44-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED90058-ND	1.43	1.00	.81	.69	110-44-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED90059-ND	1.79	1.24	1.00	.86	110-44-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED90060-ND	2.14	1.49	1.20	1.03	110-44-648-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED90061-ND	2.86	1.99	1.61	1.38	110-44-964-41-001000
Wire Wrap									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED4308-ND	.92	.64	.52	.44	123-93-308-41-001000

(Continued)

No. of Pins	Dimensions – Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	500	Mill-Max Part No.
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED4314-ND	1.60	1.11	.90	.77	123-93-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED4316-ND	1.83	1.27	1.03	.88	123-93-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED4318-ND	2.06	1.43	1.16	.99	123-93-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED4320-ND	2.29	1.59	1.29	1.10	123-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED4324-ND	2.75	1.91	1.54	1.32	123-93-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED4328-ND	3.20	2.22	1.80	1.54	123-93-328-41-001000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED4422-ND	2.52	1.75	1.41	1.21	123-93-422-41-001000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED4424-ND	2.75	1.91	1.54	1.32	123-93-424-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED4624-ND	2.75	1.91	1.54	1.32	123-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED4628-ND	3.20	2.22	1.80	1.54	123-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED4632-ND	3.66	2.54	2.05	1.76	123-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED4640-ND	4.58	3.18	2.57	2.20	123-93-640-41-001000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED4648-ND	5.49	3.81	3.08	2.64	123-93-648-41-001000
50	2.5 (63.50)	0.9 (22.86)	1.0 (25.40)	ED4950-ND	5.72	3.97	3.21	2.75	123-93-950-41-001000
64	3.2 (81.28)	0.9 (22.86)	1.0 (25.40)	ED4964-ND	7.32	5.08	4.10	3.52	123-93-964-41-001000
Wire Wrap									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED57083-ND	1.16	.81	.66	.56	123-13-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED57143-ND	2.04	1.42	1.15	.98	123-13-314-41-001000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED57163-ND	2.33	1.62	1.31	1.12	123-13-316-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED57203-ND	2.91	2.02	1.63	1.40	123-13-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED57243-ND	3.49	2.43	1.96	1.68	123-13-324-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED57246-ND	3.49	2.43	1.96	1.68	123-13-624-41-001000
28	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED57286-ND	4.07	2.83	2.29	1.96	123-13-628-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED57406-ND	5.82	4.04	3.26	2.80	123-13-640-41-001000
Low Profile									
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED5308-ND	.70	.49	.40	.34	115-93-308-41-003000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED5314-ND	1.18	.82	.66	.57	115-93-314-41-003000
16	0.8 (20.30)	0.3 (7.62)	0.4 (10.16)	ED5316-ND	1.35	.94	.76	.65	115-93-316-41-003000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED5318-ND	1.52	1.05	.85	.73	115-93-318-41-003000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED5320-ND	1.62	1.13	.91	.78	115-93-320-41-003000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED5324-ND	1.95	1.35	1.09	.94	115-93-324-41-003000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED5328-ND	2.27	1.58	1.28	1.10	115-93-328-41-003000
22	1.1 (27.94)	0.4 (10.16)	0.5 (12.70)	ED5422-ND	1.79	1.24	1.00	.86	115-93-422-41-003000
24	1.2 (30.48)	0.4 (10.16)	0.5 (12.70)	ED5424-ND	1.95	1.35	1.09	.94	115-93-424-41-003000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED5624-ND	1.95	1.35	1.09	.94	115-93-624-41-003000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED5628-ND	2.27	1.58	1.28	1.10	115-93-628-41-003000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED5632-ND	2.60	1.81	1.46	1.25	115-93-632-41-003000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED5640-ND	3.25	2.26	1.82	1.56	115-93-640-41-003000
48	2.4 (60.96)	0.6 (15.24)	0.7 (17.78)	ED5648-ND	3.90	2.71	2.19	1.88	115-93-648-41-003000

IC Sockets

With Integral Decoupling Capacitor Machine Screw Contact

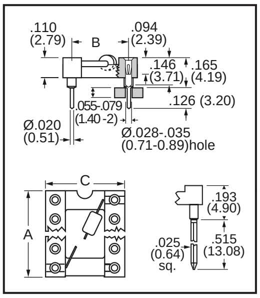

Special Features/Applications:
• To eliminate noise at the source before it can reach the chip • Advantages for uses such as high speed logic and memory applications • To eliminate long leads as potential sources of noise because capacitor leads are connected directly to the ground and voltage pin of the socket • To save minimum of 12% on board space

Technical Data: • Insulator body material: glass filled polyester UL94VO • Pin: screw machined Socket with integral glass encapsulated ceramic capacitor 0.1µF, 50VDC

Type of Pins	No. of Pins	Dim. – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	Mill-Max Part No.
Tin Plated, Solder Tab	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2101-ND	1.68	14.56	117.60	110-93-314-41-801000
	16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2102-ND	1.80	15.60	126.00	110-93-316-41-801000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2103-ND	1.92	16.67	134.61	110-93-318-41-801000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2104-ND	1.96	16.98	137.13	110-93-320-41-801000
	24#	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED2106-ND	2.24	19.37	156.45	110-93-324-41-801000
	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2105-ND	2.47	21.40	172.83	110-93-624-41-801000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2107-ND	2.67	23.11	186.69	110-93-628-41-801000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2108-ND	3.14	27.25	220.08	110-93-640-41-801000
Gold Plated, Solder Tab	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2109-ND	1.98	17.19	138.81	110-13-314-41-801000
	16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2110-ND	2.17	18.82	152.04	110-13-316-41-801000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2111-ND	2.32	20.12	162.54	110-13-318-41-801000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2112-ND	2.40	20.80	168.00	110-13-320-41-801000
	24#	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED2114-ND	2.77	24.00	193.83	110-13-324-41-801000
	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2113-ND	3.00	26.03	210.21	110-13-624-41-801000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2115-ND	3.27	28.31	228.69	110-13-628-41-801000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2116-ND	3.86	33.49	270.48	110-13-640-41-801000
3-Level Tin Plated	14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2117-ND	2.72	23.53	190.05	123-93-314-41-801000
	16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2118-ND	3.00	26.00	210.00	123-93-316-41-801000
	18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2119-ND	3.83	33.20	268.17	123-93-318-41-801000
	20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2120-ND	3.38	29.30	236.67	123-93-320-41-801000
Wire-Wrap	24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2121-ND	4.76	41.21	332.85	123-93-624-41-801000
	28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2122-ND	5.30	45.97	371.28	123-93-628-41-801000
	40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2123-ND	6.92	59.96	484.26	123-93-640-41-801000

# With .300" (7.62mm) Contact Row Spacing.

Dual-In-Line Sockets – Low Profile Open Frame

• Dip Sockets with reduced height; only .122" (3.10mm) above PCB. • Hi-Rel, 4-finger #30 clip.

Plating: Sleeve (Pin) – 200µ" Sn.; Contact (Clip) – 30µ" Au.

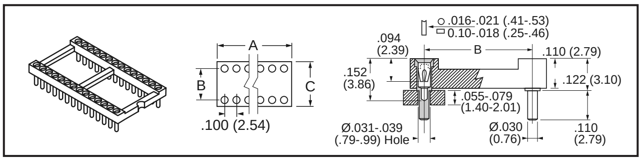

No.of Pins	Dim. – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	Mill-Max Part No.
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED58083-ND	.62	5.28	43.20	159.36	115-93-308-41-001000
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED58143-ND	1.05	8.86	72.45	267.26	115-93-314-41-001000
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED58163-ND	1.20	10.12	82.80	305.44	115-93-316-41-001000
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED58183-ND	1.35	11.39	93.15	343.62	115-93-318-41-001000
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED58203-ND	1.44	12.21	99.90	368.52	115-93-320-41-001000
24	1.2 (30.48)	0.3 (7.62)	0.4 (10.16)	ED58243-ND	1.73	14.66	119.93	442.39	115-93-324-41-001000
28	1.4 (35.56)	0.3 (7.62)	0.4 (10.16)	ED58283-ND	2.02	17.11	139.95	516.26	115-93-328-41-001000
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED58246-ND	1.73	14.66	119.93	442.39	115-93-624-41-001000
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED58286-ND	2.02	17.11	139.95	516.26	115-93-628-41-001000
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED58326-ND	2.31	19.53	159.75	589.30	115-93-632-41-001000
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED58406-ND	2.89	24.42	199.80	737.04	115-93-640-41-001000

Shrink Dip Sockets – Solder Tail – Open Frame

• High density Dual-in-Line Sockets for devices featuring .070" (1.78mm) lead spacing.

• Four-finger beryllium copper contacts meet high vibration and shock requirements.

Insertion Characteristics: 4-finger standard.

Plating: Sleeve (Pin) – 200µ" Sn.; Contact (Clip) – 30µ" Au.

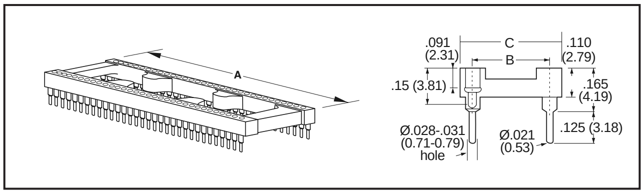

No.of Pins	Dim. – Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	Mill-Max Part No.
16	0.572 (14.53)	0.3 (7.62)	0.39 (9.91)	ED22163-ND	1.60	11.10	89.67	384.30	117-93-316-41-005000
28	0.992 (25.20)	0.4 (10.16)	0.49 (12.45)	ED22284-ND	2.71	18.77	151.62	649.80	117-93-428-41-005000
30	1.062 (26.97)	0.4 (10.16)	0.49 (12.45)	ED22304-ND	2.90	20.10	162.33	695.70	117-93-430-41-005000
48	1.692 (42.98)	0.4 (10.16)	0.49 (12.45)	ED22484-ND	4.64	32.16	259.77	1113.30	117-93-448-41-005000
20	0.712 (18.08)	0.6 (15.24)	0.69 (17.53)	ED22206-ND	1.93	13.39	108.15	463.50	117-93-620-41-005000
28	0.992 (25.20)	0.6 (15.24)	0.69 (17.53)	ED22286-ND	2.71	18.77	151.62	649.80	117-93-628-41-005000
40	1.412 (35.86)	0.6 (15.24)	0.69 (17.53)	ED22406-ND	3.86	26.78	216.30	927.00	117-93-640-41-005000
42	1.482 (37.64)	0.6 (15.24)	0.69 (17.53)	ED22426-ND	4.05	28.11	227.01	972.90	117-93-642-41-005000
48	1.692 (42.98)	0.6 (15.24)	0.69 (17.53)	ED22486-ND	4.64	32.16	259.77	1113.30	117-93-648-41-005000
52	1.832 (46.53)	0.6 (15.24)	0.69 (17.53)	ED22526-ND	4.88	33.85	273.42	1171.80	117-93-652-41-005000
56	1.972 (50.09)	0.6 (15.24)	0.69 (17.53)	ED22566-ND	5.26	36.48	294.63	1262.70	117-93-656-41-005000
64	2.252 (57.20)	0.6 (15.24)	0.69 (17.53)	ED22646-ND	6.02	41.70	336.84	1443.60	117-93-664-41-005000
64	2.252 (57.20)	0.75 (19.05)	0.84 (21.34)	ED22647-ND	6.02	41.70	336.84	1443.60	117-93-764-41-005000
68	2.392 (60.76)	0.6 (15.24)	0.69 (17.53)	ED22686-ND	6.39	44.30	357.84	1533.60	117-93-668-41-005000

Dual-In-Line Sockets – Surface Mount, Stub Tail, Closed Frame

• Closed frame insulator is vision system compatible.

• High-temp Nylon 46, suitable for infra-red and vapor phase soldering.

Plating: Sleeve (Pin) – 200µ" Sn.; Contact (Clip) – 200µ" Sn.

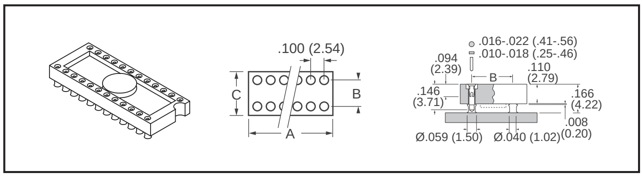

No.of Pins	Dim.– Inch (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Mill-Max Part No.
Vacuum Pads Top Surface Only										
8	0.4 (10.16)	0.3 (7.62)	0.4 (10.16)	ED2128-ND	.57	4.94	39.90	171.00	285.00	214-99-308-01-670800
14	0.7 (17.78)	0.3 (7.62)	0.4 (10.16)	ED2129-ND	.96	8.29	66.99	287.10	478.50	214-99-314-01-670800
16	0.8 (20.32)	0.3 (7.62)	0.4 (10.16)	ED2130-ND	1.10	9.49	76.65	328.50	547.50	214-99-316-01-670800
18	0.9 (22.86)	0.3 (7.62)	0.4 (10.16)	ED2131-ND	1.23	10.63	85.89	368.10	613.50	214-99-318-01-670800
20	1.0 (25.40)	0.3 (7.62)	0.4 (10.16)	ED2132-ND	1.32	11.44	92.40	396.00	660.00	214-99-320-01-670800
Vacuum Pads Top and Bottom										
24	1.2 (30.48)	0.6 (15.24)	0.7 (17.78)	ED2133-ND	1.58	13.70	110.67	474.30	790.50	214-99-624-01-670800
28	1.4 (35.56)	0.6 (15.24)	0.7 (17.78)	ED2134-ND	1.85	15.99	129.15	553.50	922.50	214-99-628-01-670800
32	1.6 (40.64)	0.6 (15.24)	0.7 (17.78)	ED2135-ND	2.11	18.30	147.84	633.60	1056.00	214-99-632-01-670800
40	2.0 (50.80)	0.6 (15.24)	0.7 (17.78)	ED2136-ND	2.64	22.85	184.59	791.10	1318.50	214-99-640-01-670800

In-Line Sockets and Headers - Solder Tail and Solderless

Fig. 1

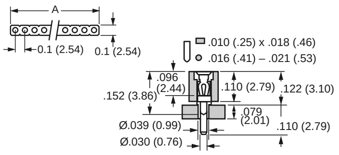

Fig. 2

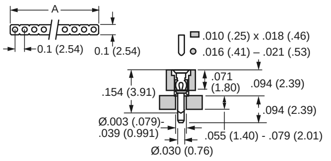

Fig. 3

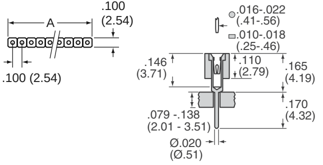

Fig. 4

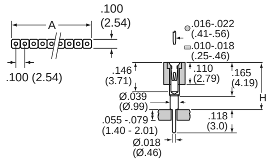

Fig. 5

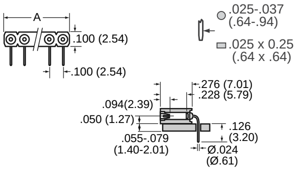

Fig. 6

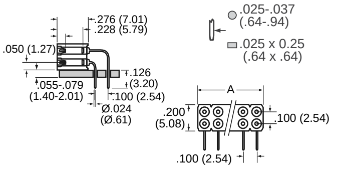

Fig. 7

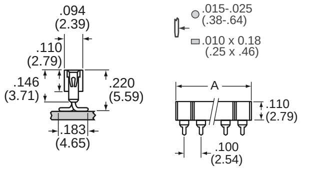

Fig. 8

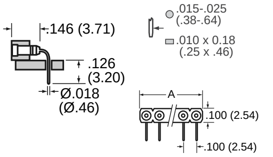

Fig. 9

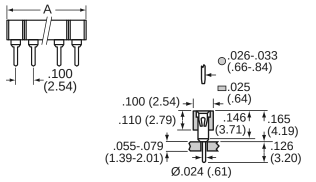

Fig. 10

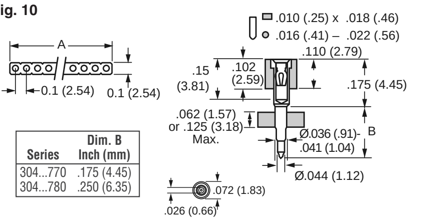

Series	Dim. B Inch (mm)
304...770	.175 (4.45)
304...780	.250 (6.35)

Fig. 11

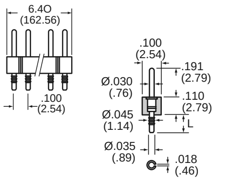

Fig. 12

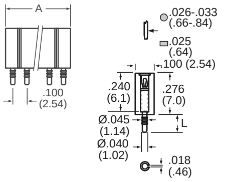

Fig. 13

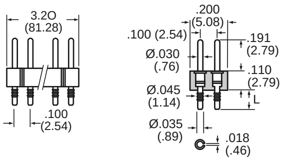

Fig. 14

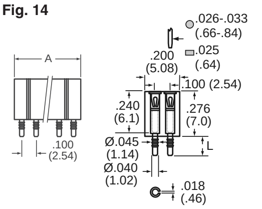

Fig. 15

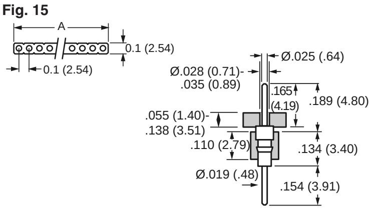

Fig. 16

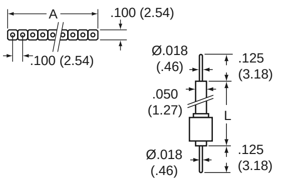

Fig. 17

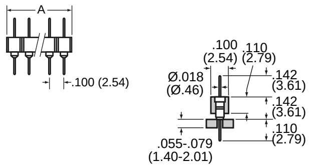

Fig. 18

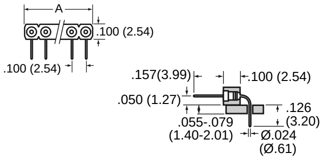

Fig. 19

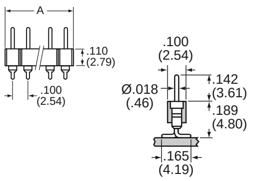

Fig. 20

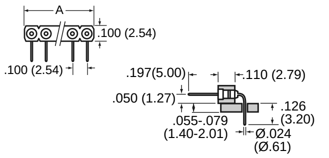

Fig.	Description	No. of Pins	Dimension A Inch (mm)	Plating Sleeve/Pin	Plating Contact/Clip	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Mill-Max Part No.
	Solder Tail Socket									
1	Very Low Profile, Series 315...01	64	6.4” (162.56)	200µ” Sn	30µ” Au	ED7864-ND	4.16	3.52	2.88	315-93-164-41-001000
2	Ultra Low Profile, Series 315...03	64	6.4” (162.56)	200µ” Au	30µ” Au	ED7964-ND	4.06	3.44	2.81	315-93-164-41-003000
3	Single Row, Long Solder Tail, Series 311...01	64	6.4" (162.56)	200µ” Sn	30µ” Au	ED1064-ND	3.16	2.74	2.22	311-93-164-41-001000
4	Single Row, Series 316...01 H=.594	64	6.4" (162.56)	200µ” Sn	30µ” Au	ED1164-ND	8.48	7.35	5.94	316-93-164-41-001000
4	Single Row, Series 316...03 H=.315	64	6.4" (162.56)	200µ” Sn	30µ” Au	ED1264-ND	7.33	6.36	5.14	316-93-164-41-003000
4	Single Row, Series 316...06 H=.236	64	6.4" (162.56)	200µ” Sn	30µ” Au	ED1364-ND	6.92	6.01	4.85	316-93-164-41-006000
4	Single Row, Series 316...07 H=.402	64	6.4" (162.56)	200µ” Sn	30µ” Au	ED1464-ND	7.66	6.64	5.37	316-93-164-41-007000
4	Single Row, Series 316...08 H=.472	64	6.4" (162.56)	200µ” Sn	30µ” Au	ED15064-ND	8.01	6.94	5.61	316-93-164-41-008000
5	Single Row, Right Angle .030" Diameter Pins	50	5.0" (127.00)	200µ” Sn	30µ” Au	ED1450-ND	5.89	5.11	4.13	801-93-050-20-001000
6	Double Row, Right Angle .030" Diameter Pins	2 x 50	5.0" (127.00)	200µ” Sn	30µ” Au	ED14100-ND	14.31	12.41	10.02	803-93-100-20-001000
7	Single Row, .220" Surface Mount	64	6.4" (162.56)	200µ” Sn	30µ” Au	ED23064-ND	5.84	5.06	4.09	310-93-164-41-105000
8	Single Row, Series 399...03 Right Angle	64	6.4" (162.56)	200µ” Sn	30µ” Au	ED22064-ND	5.63	4.88	3.94	399-93-164-10-003000
9	Single Row, Low Profile .030" Diameter Pins	64	6.4" (162.56)	200µ” Sn	30µ” Au	ED2764-ND	6.20	5.38	4.35	801-93-064-10-002000
	Solderless Press-Fit Header/Socket									
10	Solderless Press-Fit Socket, Series 304...770	64	6.4” (162.56)	10µ” Au	30µ” Au	ED8064-ND	6.53	5.53	4.53	304-13-164-41-770000
10	Solderless Press-Fit Socket, Series 304...780	64	6.4” (162.56)	10µ” Au	30µ” Au	ED8164-ND	7.05	5.97	4.89	304-13-164-41-780000
11	Single Row Header Compliant Tail L=.104	64	6.4" (162.56)	10µ” Au	—	ED2864-ND	9.04	7.84	6.33	800-10-064-61-001000
11	Single Row Header Compliant Tail L=.143	64	6.4" (162.56)	10µ” Au	—	ED2964-ND	9.17	7.95	6.42	800-10-064-62-001000
12	Single Row Socket Compliant Tail L=.104	50	5.0" (127.00)	200µ” Sn	30µ” Au	ED15050-ND	8.76	7.59	6.13	801-93-050-61-001000
12	Single Row Socket Compliant Tail L=.143	50	5.0" (127.00)	200µ” Sn	30µ” Au	ED1650-ND	8.79	7.62	6.16	801-93-050-62-001000
13	Double Row Header Compliant Tail L=.104	2 x 32	3.2" (81.28)	10µ” Au	—	ED3064-ND	9.04	7.84	6.33	802-10-064-61-001000
13	Double Row Header Compliant Tail L=.143	2 x 32	3.2" (81.28)	10µ” Au	—	ED3164-ND	9.17	7.95	6.42	802-10-064-62-001000
14	Double Row Socket Compliant Tail L=.104	2 x 50	5.0" (127.00)	200µ” Sn	30µ” Au	ED15100-ND	17.34	15.03	12.14	803-93-100-61-001000
14	Double Row Socket Compliant Tail L=.143	2 x 50	5.0" (127.00)	200µ” Sn	30µ” Au	ED16100-ND	17.40	15.08	12.18	803-93-100-62-001000
	Solder Tail Header Strip									
15	Pin/Solder Tail Header Strip, Series 350	64	6.4” (162.56)	10µ” Au	—	ED7764-ND	6.12	5.18	4.24	350-10-164-00-001000
16	Single Row, .018/.018 Pin L=.210	64	6.4" (162.56)	10µ” Au	—	ED16064-ND	5.99	5.20	4.20	342-10-164-00-591000
16	Single Row, .018/.018 Pin L=.335	64	6.4" (162.56)	10µ” Au	—	ED17064-ND	6.42	5.57	4.50	342-10-164-00-592000
16	Single Row, .018/.018 Pin L=.585	64	6.4" (162.56)	10µ” Au	—	ED18064-ND	8.57	7.43	6.00	342-10-164-00-593000
16	Single Row, .018/.018 Pin L=.835	64	6.4" (162.56)	10µ” Au	—	ED19064-ND	11.23	9.74	7.87	342-10-164-00-594000
17	Single Row, Series 350...06 Straight	64	6.4" (162.56)	10µ” Au	—	ED2064-ND	5.76	5.00	4.04	350-10-164-00-006000

(Continued)

In-Line Sockets and Headers - Solder Tail and Solderless *(Cont.)*

Fig. 21

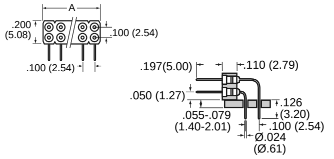

Fig. 22

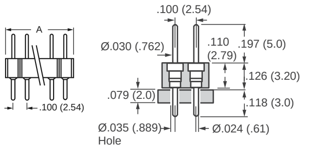

Fig. 23

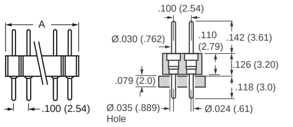

Fig. 24

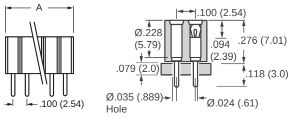

Fig. 25

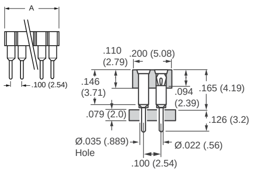

Fig. 26

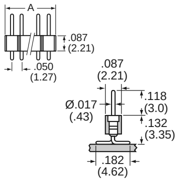

Fig. 27

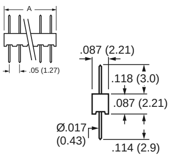

Fig. 28

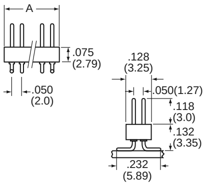

Fig. 29

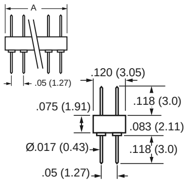

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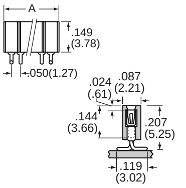

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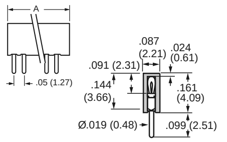

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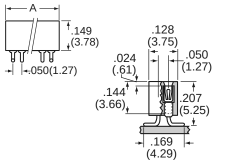

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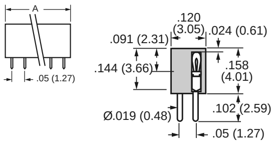

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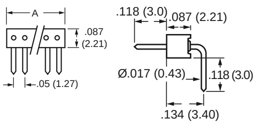

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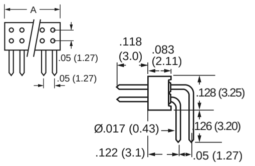

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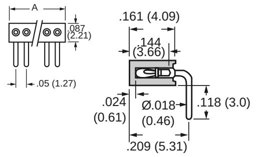

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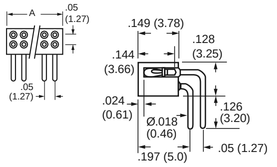

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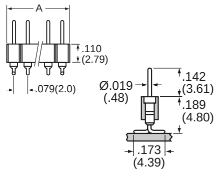

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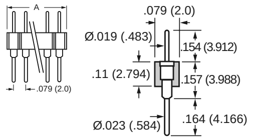

Fig. 40

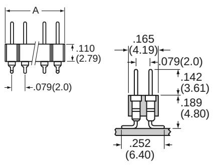

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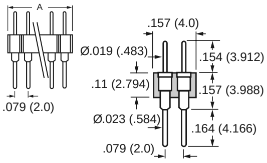

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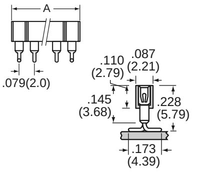

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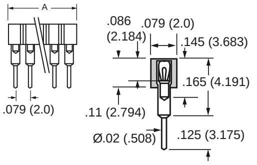

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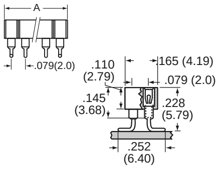

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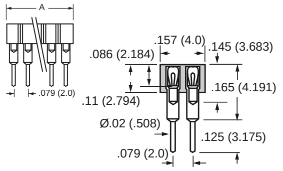

Fig.	Description	No. of Pins	Dimension A Inch (mm)	Plating		Digi-Key Part No.	Price Each			Mill-Max Part No.
				Sleeve/Pin	Contact/Clip		1	10	100	
	Solder Tail Header Strip (Cont.)									
18	Single Row, Series 399...09 Right/Angle	64	6.4" (162.56)	10µ" Au	—	ED2164-ND	6.59	5.72	4.62	399-10-164-10-009000
19	Single Row, .189" Surface Mount Header	64	6.4" (162.56)	10µ" Au	—	ED24064-ND	8.38	7.27	5.87	350-10-164-00-106000
20	Single Row, Right Angle .030" Diameter Pins	64	6.4" (162.56)	10µ" Au	—	ED2564-ND	6.80	5.90	4.77	800-10-064-20-001000
21	Double Row, Right Angle .030" Diameter Pins	2 x 32	3.2" (81.28)	10µ" Au	—	ED2664-ND	7.22	6.26	5.06	802-10-064-20-001000
	Interconnects, .100" (2.54mm) Grid									
22	Double Row, Pin Header, Straight Solder Tail	2 x 32	3.2" (81.28)	10µ" Au	—	ED9464-ND	6.85	5.80	4.75	802-10-064-10-001000
23	Double Row, Low Profile Pin Header	2 x 32	3.2" (81.28)	10µ" Au	—	ED9564-ND	6.72	5.69	4.66	802-10-064-10-002000
24	Double Row, Socket, Straight Solder Tail	2 x 36	3.6" (91.44)	200µ" Sn	30µ" Au	ED9672-ND	8.62	7.29	5.97	803-93-072-10-001000
25	Double Row, Low Profile Socket	2 x 36	3.6" (91.44)	200µ" Sn	30µ" Au	ED9772-ND	8.09	6.85	5.60	803-93-072-10-002000
	Interconnects, .050" (1.27mm) Grid									
26	Single Row, .132" (3.35mm) SMT Header	50	2.5" (63.50)	10µ" Au	—	ED1050-ND	9.65	8.37	6.76	850-10-050-30-001000
27	Single Row, .087" (2.21mm) Profile Pin Header	50	2.5" (63.50)	10µ" Au	—	ED8250-ND	7.10	6.01	4.92	850-10-050-10-001000
28	Double Row, .132" (3.35mm) SMT Header	2 x 50	2.5" (63.50)	10µ" Au	—	ED10100-ND	17.61	15.27	12.33	852-10-100-30-001000
29	Double Row, .075" (1.91mm) Profile Pin Header	2 x 50	2.5" (63.50)	10µ" Au	—	ED83100-ND	14.20	12.02	9.84	852-10-100-10-001000
30	Single Row, .207" (5.26mm) SMT Socket	50	2.5" (63.50)	200µ" Sn	30µ" Au	ED1150-ND	13.12	11.37	9.19	851-93-050-30-001000
31	Single Row, .161" (4.09mm) Profile Socket	50	2.5" (63.50)	200µ" Sn	30µ" Au	ED8450-ND	10.82	9.16	7.50	851-93-050-10-001000
32	Double Row, .207" (5.26mm) SMT Socket	2 x 50	2.5" (63.50)	200µ" Sn	30µ" Au	ED11100-ND	24.48	21.22	17.14	853-93-100-30-001000
33	Double Row, .161" (4.09mm) Profile Socket	2 x 50	2.5" (63.50)	200µ" Sn	30µ" Au	ED85100-ND	21.65	18.32	14.99	853-93-100-10-001000
	Right Angle Interconnects, .050" (1.27mm) Grid									
34	Single Row, Pin Header, Right Angle Solder Tail	50	2.5" (63.50)	10µ" Au	—	ED8650-ND	9.64	8.16	6.68	850-10-050-20-001000
35	Double Row, Pin Header, Right Angle Solder Tail	2 x 50	2.5" (63.50)	10µ" Au	—	ED87100-ND	19.44	16.45	13.46	852-10-100-20-001000
36	Single Row, Socket, Right Angle Solder Tail	50	2.5" (63.50)	200µ" Sn	30µ" Au	ED8850-ND	13.47	11.40	9.33	851-93-050-20-001000
37	Double Row, Socket, Right Angle Solder Tail	2 x 50	2.5" (63.50)	200µ" Sn	30µ" Au	ED89100-ND	27.04	22.88	18.72	853-93-100-20-001000
	Interconnects, 2mm Grid									
38	Single Row, .189" (4.80mm) SMT Header	50	3.94" (100.08)	10µ" Au	—	ED1250-ND	8.79	7.62	6.16	830-10-050-30-001000
39	Single Row Pin Header	50	3.94" (100.08)	10µ" Au	—	ED9050-ND	6.31	5.34	4.37	830-10-050-10-001000
40	Double Row, .189" (4.80mm) SMT Header	2 x 50	3.94" (100.08)	10µ" Au	—	ED12100-ND	17.40	15.08	12.18	832-10-100-30-001000
41	Double Row Pin Header	2 x 50	3.94" (100.08)	10µ" Au	—	ED91100-ND	12.61	10.67	8.73	832-10-100-10-001000
42	Single Row, .228" (5.79mm) SMT Socket	50	3.94" (100.08)	200µ" Sn	30µ" Au	ED1350-ND	6.82	5.91	4.78	831-93-050-30-001000
43	Single Row Socket	50	3.94" (100.08)	200µ" Sn	30µ" Au	ED9250-ND	4.06	3.44	2.82	831-93-050-10-001000
44	Double Row, .228" (5.79mm) SMT Socket	2 x 50	3.94" (100.08)	200µ" Sn	30µ" Au	ED13100-ND	13.50	11.70	9.45	833-93-100-30-001000
45	Double Row Socket	2 x 50	3.94" (100.08)	200µ" Sn	30µ" Au	ED93100-ND	8.13	6.88	5.63	833-93-100-10-001000

Surface Mount Connectors — Modular Spring Loaded Contacts

• Modular contacts for use on .100" grid, available in seven heights from .137" ~ .295", supplied in single and double row contact strips. • Precision machined piston/base and gold plated components assure a 40,000 (100,000 for ED8110 and ED8130) minimum cycle life. • Pistons have a long stroke relative to the low profile of the assembly. • Low resistance, high current contacts are rated at 2 amps continuous, 3 amps peak. • High temperature thermoplastic insulators are suitable for surface mount processes. • A typical application would be as the base unit (battery/charger) interface for portable equipment such as mobile phones/radios, bar code readers, medical and test instruments.

Fig. 1

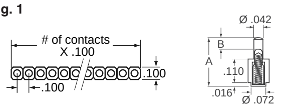

Fig. 2

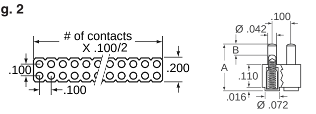

Fig.	Contacts	Initial Height Dimension A Inch (mm)	Stroke Dimension B Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
				Single Row - Series 811				
1	64	.137 (3.48)	.039 (0.99)	ED8110-64-ND	17.60	16.35	14.25	811-22-064-30-000101
		.177 (4.50)	.055 (1.40)	ED8111-64-ND	17.60	16.35	14.25	811-22-064-30-001101
		.197 (5.00)	.055 (1.40)	ED8112-64-ND	17.60	16.35	14.25	811-22-064-30-002101
		.217 (5.51)	.055 (1.40)	ED8113-64-ND	17.60	16.35	14.25	811-22-064-30-003101
		.236 (5.99)	.055 (1.40)	ED8114-64-ND	17.60	16.35	14.25	811-22-064-30-004101
		.256 (6.50)	.055 (1.40)	ED8115-64-ND	17.60	16.35	14.25	811-22-064-30-005101
		.276 (7.01)	.055 (1.40)	ED8116-64-ND	17.60	16.35	14.25	811-22-064-30-006101
		.295 (7.49)	.055 (1.40)	ED8117-64-ND	17.60	16.35	14.25	811-22-064-30-007101
				Double Row - Series 813				
2	72	.137 (3.48)	0.39 (0.99)	ED8130-72-ND	19.80	18.39	16.03	813-22-072-30-000101
		.177 (4.50)	.055 (1.40)	ED8131-72-ND	19.80	18.39	16.03	813-22-072-30-001101
		.197 (5.00)	.055 (1.40)	ED8132-72-ND	19.80	18.39	16.03	813-22-072-30-002101
		.217 (5.51)	.055 (1.40)	ED8133-72-ND	19.80	18.39	16.03	813-22-072-30-003101
		.236 (5.99)	.055 (1.40)	ED8134-72-ND	19.80	18.39	16.03	813-22-072-30-004101
		.256 (6.50)	.055 (1.40)	ED8135-72-ND	19.80	18.39	16.03	813-22-072-30-005101
		.276 (7.01)	.055 (1.40)	ED8136-72-ND	19.80	18.39	16.03	813-22-072-30-006101
		.295 (7.49)	.055 (1.40)	ED8137-72-ND	19.80	18.39	16.03	813-22-072-30-007101

Digi-Key Part No.	Base Price	Pin Adder
Single Row - Series 811		
ED8110-XX-ND	8.50	.15
ED8111-XX-ND	8.50	.15
ED8112-XX-ND	8.50	.15
ED8113-XX-ND	8.50	.15
ED8114-XX-ND	8.50	.15
ED8115-XX-ND	8.50	.15
ED8116-XX-ND	8.50	.15
ED8117-XX-ND	8.50	.15
Double Row - Series 813		
ED8130-XX-ND	9.35	.31
ED8131-XX-ND	9.35	.31
ED8132-XX-ND	9.35	.31
ED8133-XX-ND	9.35	.31
ED8134-XX-ND	9.35	.31
ED8135-XX-ND	9.35	.31
ED8136-XX-ND	9.35	.31
ED8137-XX-ND	9.35	.31

HOW TO ORDER — 4 EASY STEPS

How do I order an ED8111-63 header with 63 pins?
Call Digi-Key where you'll happily receive the price.
or Determine the cost yourself

How to Order — In 4 Easy Steps	***Our Example***	***Your Digi-Key Part Number***
Step 1. Select needed "Digi-Key Part Number" and number of pins desired	ED8111-63-ND	ED ____- __-ND
Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart)...........	8.50	_____
Step 3. Multiply the number of pins you desire by "Pin Adder" of your selected Part Number (refer to chart)...	63 x .15 = 9.45	__ x __ = ___
Step 4. Add Step 2 and Step 3 together for Final Cost!	Your Cost = $17.95	Your Cost = $___

Note: **For quantities of 10 or more, call Digi-Key.**

Universal Serial Bus Connectors

Features:

- USB receptacles for thru-hole and surface mount
- Plug retention tabs
- Kinked locating legs for secure PCB retention
- Fully compatible with USB 1.0 specification
- Passes 16MHz Signal Attentuation per ASTM-D-4566

Material Specifications:

- Shell and Contact: Copper alloy
- Shell Finish: Tin/lead over copper
- Contact Finish: 30µ selective gold, tin/lead tail
- Housing: Glass filed thermoplastic rated UL94V-0

Ratings:

- Voltage: 30VAC (rms)
- Current: 1A maximum per contact for 30°C temperature rise. Thru-hole housings rated at 130°C for wave soldering. SMT housing rated at 240°C for reflow soldering

Electrical:

- Contact Resistance: 30mW maximum
- Insulation Resistance: 1000mΩ minimum
- Dielectric Withstanding Voltage: 750VAC at sea level
- Capacitance: 2pF maximum

Fig. 1

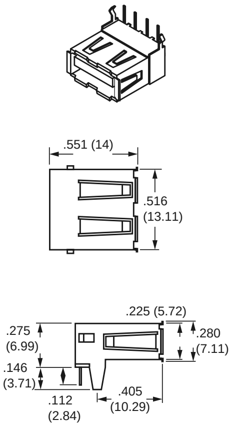

Fig. 2

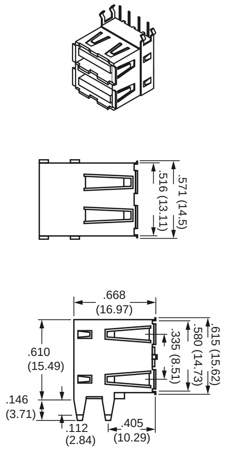

Fig. 3

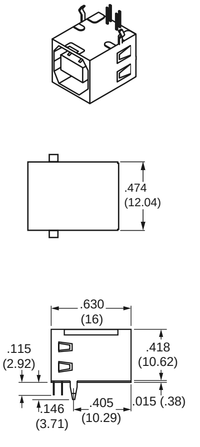

Fig. 4

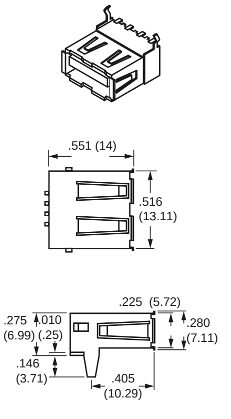

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Mill-Max Part No.
3	Type B Receptacle, Single, Thru Hole	ED90003-ND	1.23	1.04	.86	.63	.53	897-30-004-90-000000
4	Type A Receptacle, Single, Surface Mount	ED90004-ND	1.23	1.04	.86	.63	.53	896-30-004-00-000000
		NEW! RoHS Compliant NEW!						
1	Type A Receptacle, Single, Thru Hole	ED90062-ND	1.29	1.10	.90	.66	.56	896-43-004-90-000000
2	Type A Receptacle, Double, Thru Hole	ED90063-ND	2.13	1.80	1.48	1.09	.92	896-43-008-90-000000
3	Type B Receptacle, Single, Thru Hole	ED90064-ND	1.29	1.10	.90	.66	.56	897-43-004-90-000000
4	Type A Receptacle, Single, Surface Mount	ED90065-ND	1.29	1.10	.90	.66	.56	896-43-004-00-000000

Single In-Line Strip Sockets — Solder Tail and Solderless

MATERIALS:
• **Insulator Body:** Glass filled thermoplastic polyester, self-extinguishing rated UL 94V-O; color black; resistant against detergents, mineral acids, solvents, greases and oils (short time) • **Receptacle (sleeve):** Screw machined brass, plated 200µ" tin-lead • **Pin:** Screw machined brass with 10µ" gold plating • **Contact:** Stamped beryllium-copper, plated 30µ" gold • **Mechanical Life:** 100 cycles minimum **ELECTRICAL DATA:** • **Rated Current:** 1A (Series 7000, 7400); 3A (7100, 7200, 7500, 7600) • **Rated Voltage:** 100 VRMS/150VDC • **Contact Resistance:** 10mΩ maximum • **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Strength:** 1000 VRMS minimum • **Maximum Capacitance:** .8pF (Series 7000, 7400); 1pF (Series 7100, 7200, 7500, 7600) **ENVIRONMENTAL DATA:** • **Operating Temperature Range:** -55°C ~ 125°C • **Vibration:** 10-2000 Hz, 15g. • **Shock (no elect. discontinuity greater than 1µs):** 150g. • **Solderability:** IEC 68-2-20 Ta. • **Resistance to Soldering Heat:** IEC 68-2-20, 260°C, 5s • **Resistance to Atmosphere Corrosion:** IEC 68-2-42 & 43.

Fig. 1 — Standard Solder Tail

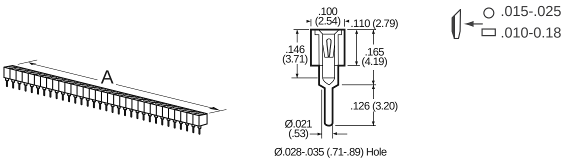

Fig. 2 — Low Profile Socket

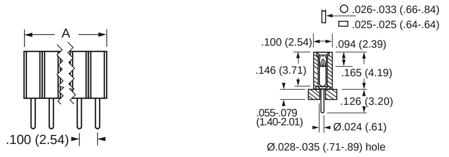

Fig. 3 — Socket Strip

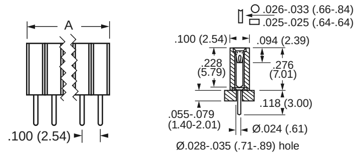

Fig. 4 — Low Profile Pin Header

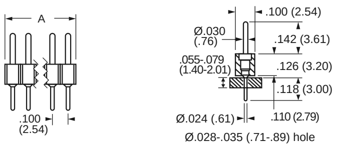

Fig. 5 — Pin Header Strip

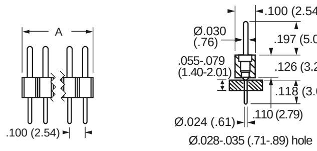

Fig.	No. of Pins	Dimension A Inch (mm)	Plating Sleeve/Pin	Plating Clip	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Mill-Max Part No.
Strip Sockets Solder Tail — 7000 Series									
1	64	6.4 (162.56)	200µ" Sn	30µ" Au	ED7064-ND	2.54	22.70	186.90	310-93-164-41-001000
Single Row Socket, Straight Solder Tail — Series 7400									
1	64	6.4 (162.56)	10µ" Au	30µ" Au	ED7464-ND	3.59	32.16	264.81	310-13-164-41-001000
Single Row, Low Profile Socket — Series 7600									
2	36	3.6 (91.44)	200µ" Sn	30µ" Au	ED7636-ND	3.63	32.49	267.54	801-93-036-10-012000
Single Row Pin Socket, Straight Solder Tail — 7100 Series									
3	50	5.0 (127.00)	200µ" Sn	30µ" Au	ED7150-ND	5.25	46.95	386.61	801-93-050-10-001000
Single Row, Low Profile Pin Header — Series 7500									
4	64	6.4 (162.56)	10µ" Au	—	ED7564-ND	5.89	52.71	434.07	800-10-064-10-002000
Single Row Pin Header, Straight Solder Tail — 7200 Series									
5	64	6.4 (162.56)	10µ" Au	—	ED7264-ND	6.01	53.75	442.68	800-10-064-10-001000

Digi-Key Part No.	Base Price	Pin Adder
7000 Series		
ED70XX-ND	.83	.03
7400 Series		
ED74XX-ND	1.29	.04
7600 Series		
ED76XX-ND	1.40	.07
7100 Series		
ED71XX-ND	1.65	.08
7500 Series		
ED75XX-ND	1.83	.07
7200 Series		
ED72XX-ND	1.96	.07

Single In-Line Strip Sockets — Solderless Press Fit, Compliant Tail

FEATURES:

Unique compliant tail pins conforms to .040" ±.003" (1.02mm ±08mm) finished hole diameter without stressing inner layers.

APPLICATION OF COMPLIANT TAIL PINS:

Mill-Max's patented (Patent No. 4,799,904) compliant tail features precision machined pins that are hollow and slotted to conform to a .040" ±.003" (1.02mm ±08mm) diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering, and since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.

No. of Pins	Dim. A Inch (mm)	Plating Sleeve/Pin	Plating Clip	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Mill-Max Part No.
64	6.4" (162.56)	200µ" Sn	30µ" Au	ED7364-ND	6.44	57.63	474.60	346-93-164-41-013000

Digi-Key Part No.	Base Price	Pin Adder
ED73XX-ND	2.42	.07

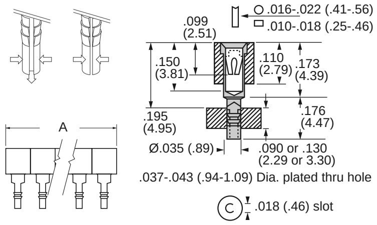

HOW TO ORDER — 4 EASY STEPS

How do I order an ED7064 header with 64 pins?
Call Digi-Key where you'll happily receive the price.
or Determine the cost yourself

ED □□□□ - ND
Series — Number of Desired Pins

How to Order — In 4 Easy Steps	***Our Example***	***Your Digi-Key Part Number***
Step 1. Select needed "Digi-Key Part Number" and number of pins desired	ED7064-ND	ED ____-ND
Step 2. Begin with appropriate "Base Price" of your selected Part Number (refer to chart)..........	.83	____
Step 3. Multiply the number of pins you desire by "Pin Adder" of your selected Part Number (refer to chart)..	64 x .03 = 1.92	__ x __ = ___
Step 4. Add Step 2 & Step 3 together for Final Cost!..	Your Cost = $2.75	Your Cost = $___

Note: **For quantities of 10 or more, call Digi-Key.**

Fig. 1

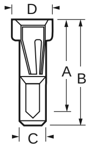

Fig. 2

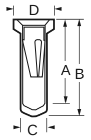

Fig. 3

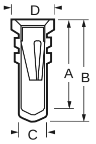

Fig. 4

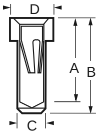

Fig. 5

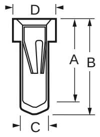

Fig. 6

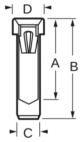

Fig. 7

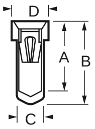

Fig. 8

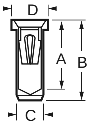

Fig. 9

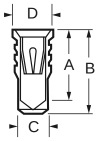

Fig. 10

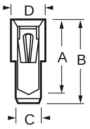

Fig. 11

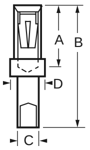

Fig. 12

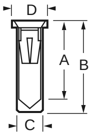

Fig. 13

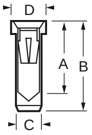

Fig. 14

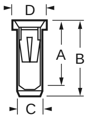

Fig. 15

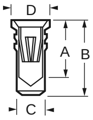

Fig. 16

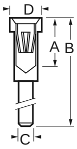

Fig. 17

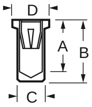

Fig. 18

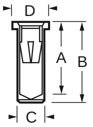

Fig. 19

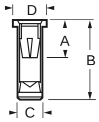

Fig. 20

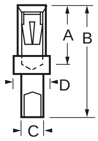

Fig. 21

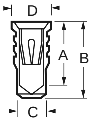

Fig. 22

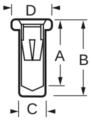

Fig. 23

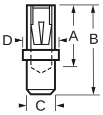

Fig. 24

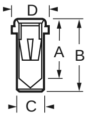

Fig. 25

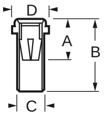

Fig. 26

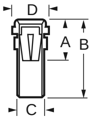

Fig. 27

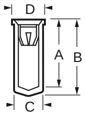

Fig. 28

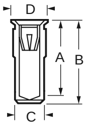

Fig. 29

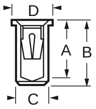

Fig. 30

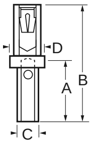

Fig. 31

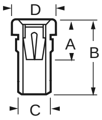

Fig. 32

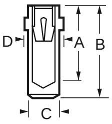

Fig. 33

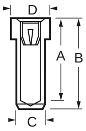

Fig. 34

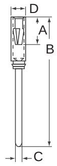

Fig. 35

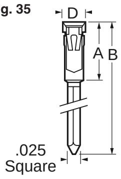

Fig. 36

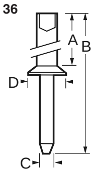

Fig. 37

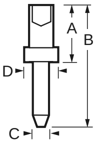

Fig. 38

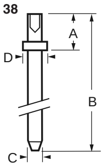

Fig. 39

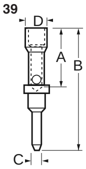

Fig. 40

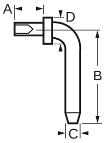

Fig. 41

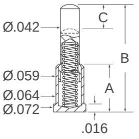

Fig. 42

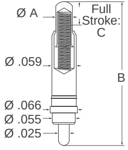

Fig. 43

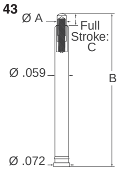

Fig. 44 ***NEW!***

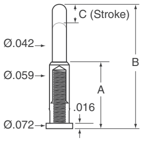

Fig. 45 ***NEW!***

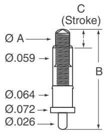

Fig.	Mounting Hole Diameter	Dimensions Inch (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	100	1,000
.015" – .021" (.38mm – .53mm) Pin Diameter									
1	.036 (.91)	.138 (3.51)	.155 (3.94)	.034 (.86)	.058 (1.47)	ED5036-ND	1.48	11.10	74.00
2	.040 (1.02)	.120 (3.05)	.136 (3.45)	.038 (.97)	.055 (1.40)	ED5037-ND	.80	6.00	40.00
2	.040 (1.02)	.150 (3.81)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED5038-ND	.81	6.09	40.60
3	.041 (1.04)	.124 (3.15)	.140 (3.56)	.038 (.97)	.055 (1.40)	ED5039-ND	1.57	11.79	78.60
3	.041 (1.04)	.154 (3.91)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED5040-ND	1.58	11.88	79.20
4	.040 (1.02)	.127 (3.23)	.146 (3.71)	.038 (.97)	.055 (1.40)	ED5046-ND	.93	6.96	46.40
5	.040 (1.02)	.140 (3.56)	.160 (4.06)	.038 (.97)	.056 (1.42)	ED5041-ND	1.77	13.26	88.40
NEW! .015" – .021" (.38mm – .53mm) Pin Diameter, RoHS Compliant NEW!									
1	.036 (.91)	.138 (3.51)	.155 (3.94)	.034 (.86)	.058 (1.47)	ED90094-ND	1.15	8.64	57.60
2	.040 (1.02)	.120 (3.05)	.136 (3.45)	.038 (.97)	.055 (1.40)	ED90095-ND	.86	6.48	43.20
2	.040 (1.02)	.150 (3.81)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED90096-ND	.90	6.78	45.20
3	.041 (1.04)	.124 (3.15)	.140 (3.56)	.038 (.97)	.055 (1.40)	ED90097-ND	1.86	13.95	93.00
3	.041 (1.04)	.154 (3.91)	.170 (4.32)	.038 (.97)	.055 (1.40)	ED90098-ND	1.88	14.10	94.00
4	.040 (1.02)	.127 (3.23)	.146 (3.71)	.038 (.97)	.055 (1.40)	ED90104-ND	1.24	9.27	61.80
5	.040 (1.02)	.140 (3.56)	.160 (4.06)	.038 (.97)	.056 (1.42)	ED90099-ND	1.65	12.39	82.60

Fig.	Mounting Hole Diameter	Dimensions Inch (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	100	1,000
.015" – .025" (.38mm – .64mm) Pin Diameter									
6	.051 (1.30)	.205 (5.21)	.248 (6.30)	.049 (1.24)	.063 (1.60)	ED5045-ND	2.08	15.57	103.80
7	.053 (1.35)	.135 (3.43)	.160 (4.06)	.051 (1.30)	.072 (1.83)	ED5042-ND	1.71	12.84	85.60
8	.057 (1.45)	.142 (3.61)	.161 (4.09)	.055 (1.40)	.072 (1.83)	ED5044-ND	.99	7.44	49.60
9	.057 (1.45)	.150 (3.81)	.170 (4.32)	.053 (1.35)	.072 (1.83)	ED5004-ND	1.75	13.11	87.40
10	.061 (1.55)	.150 (3.81)	.180 (4.57)	.058 (1.47)	.080 (2.03)	ED5043-ND	1.60	12.03	80.20
NEW! .015" – .025" (.38mm – .64mm) Pin Diameter, RoHS Compliant NEW!									
6	.051 (1.30)	.205 (5.21)	.248 (6.30)	.049 (1.24)	.063 (1.60)	ED90103-ND	2.48	18.57	123.80
7	.053 (1.35)	.135 (3.43)	.160 (4.06)	.051 (1.30)	.072 (1.83)	ED90100-ND	1.66	12.45	83.00
8	.057 (1.45)	.142 (3.61)	.161 (4.09)	.055 (1.40)	.072 (1.83)	ED90102-ND	1.14	8.52	56.80
9	.057 (1.45)	.150 (3.81)	.170 (4.32)	.053 (1.35)	.072 (1.83)	ED90069-ND	1.90	14.25	95.00
10	.061 (1.55)	.150 (3.81)	.180 (4.57)	.058 (1.47)	.080 (2.03)	ED90101-ND	1.39	10.41	69.40
.022" – .032" (.56mm – .81mm) Pin Diameter									
11	.060 (1.52)	.170 (4.32)	.294 (7.47)	.058 (1.47)	.094 (2.39)	ED5015-ND	4.26	31.92	212.80
12	.063 (1.60)	.233 (5.92)	.259 (6.58)	.060 (1.52)	.077 (1.96)	ED5008-ND	1.89	14.16	94.40
13	.071 (1.80)	.210 (5.33)	.250 (6.35)	.068 (1.73)	.093 (2.36)	ED5006-ND	2.04	15.30	102.00
14	.076 (1.93)	.185 (4.70)	.206 (5.23)	.073 (1.85)	.090 (2.29)	ED5007-ND	2.00	15.03	100.20

(Continued)

Pin Receptacles and P.C. Pins *(Cont.)*

Fig.	Mounting Hole Diameter	Dimensions Inch (mm)				Digi-Key Part No.	Pricing		
		A	B	C	D		10	100	1,000
NEW! .022" – .032" (.56mm – .81mm) Pin Diameter, RoHS Compliant NEW!									
11	.060 (1.52)	.170 (4.32)	.294 (7.47)	.058 (1.47)	.094 (2.39)	ED90080-ND	4.22	31.68	211.20
12	.063 (1.60)	.233 (5.92)	.259 (6.58)	.060 (1.52)	.077 (1.96)	ED90073-ND	2.67	20.01	133.40
13	.071 (1.80)	.210 (5.33)	.250 (6.35)	.068 (1.73)	.093 (2.36)	ED90071-ND	2.48	18.63	124.20
14	.076 (1.93)	.185 (4.70)	.206 (5.23)	.073 (1.85)	.090 (2.29)	ED90072-ND	2.16	16.20	108.00
.025" – .037" (.64mm – .94mm) Pin Diameter									
15	.061 (1.55)	.165 (4.19)	.200 (5.08)	.057 (1.45)	.078 (1.98)	ED5005-ND	2.85	21.36	142.40
16	.042 (1.07)	.180 (4.57)	.320 (8.13)	.040 (1.02)	.078 (1.98)	ED5009-ND	2.38	17.88	119.20
16	.042 (1.07)	.180 (4.57)	.397 (10.08)	.040 (1.02)	.078 (1.98)	ED5010-ND	2.82	21.12	140.80
NEW! .025" – .037" (.64mm – .94mm) Pin Diameter, RoHS Compliant NEW!									
15	.061 (1.55)	.165 (4.19)	.200 (5.08)	.057 (1.45)	.078 (1.98)	ED90070-ND	2.80	21.00	140.00
16	.042 (1.07)	.180 (4.57)	.320 (8.13)	.040 (1.02)	.078 (1.98)	ED90074-ND	2.76	20.73	138.20
16	.042 (1.07)	.180 (4.57)	.397 (10.08)	.040 (1.02)	.078 (1.98)	ED90075-ND	2.83	21.24	141.60
.037" – .043" (.94mm – 1.09mm) Pin Diameter									
17	.071 (1.80)	.127 (3.23)	.150 (3.81)	.069 (1.75)	.090 (2.29)	ED5019-ND	2.24	16.80	112.00
NEW! .037" – .043" (.94mm – 1.09mm) Pin Diameter, RoHS Compliant NEW!									
17	.071 (1.80)	.127 (3.23)	.150 (3.81)	.069 (1.75)	.090 (2.29)	ED90084-ND	2.59	19.44	129.60
.032" – .046" (.81mm – 1.17mm) Pin Diameter									
18	.075 (1.91)	.180 (4.57)	.206 (5.23)	.072 (1.83)	.090 (2.29)	ED5016-ND	2.04	15.30	102.00
19	.075 (1.91)	.125 (3.18)	.221 (5.61)	.072 (1.83)	.090 (2.29)	ED5018-ND	4.21	31.56	210.40
20	.067 (1.70)	.200 (5.08)	.324 (8.23)	.065 (1.65)	.125 (3.18)	ED5021-ND	4.58	34.38	229.20
21	.076 (1.93)	.180 (4.57)	.206 (5.23)	.071 (1.80)	.090 (2.29)	ED5017-ND	2.42	18.12	120.80
22	.091 (2.31)	.220 (5.59)	.253 (6.43)	.088 (2.24)	.120 (3.05)	ED5013-ND	2.96	22.17	147.80
23	.089 (2.26)	.220 (5.59)	.317 (8.05)	.085 (2.16)	.125 (3.18)	ED5014-ND	3.66	27.48	183.20
24	.087 (2.21)	.195 (4.95)	.236 (5.99)	.085 (2.16)	.125 (3.18)	ED5012-ND	2.54	19.05	127.00
25	.087 (2.21)	.130 (3.30)	.236 (5.99)	.085 (2.16)	.125 (3.18)	ED5011-ND	2.54	19.08	127.20
26	.089 (2.26)	.131 (3.33)	.250 (6.35)	.080 (2.03)	.110 (2.79)	ED5028-ND	3.14	23.58	157.20
NEW! .032" – .046" (.81mm – 1.17mm) Pin Diameter, RoHS Compliant NEW!									
18	.075 (1.91)	.180 (4.57)	.206 (5.23)	.072 (1.83)	.090 (2.29)	ED90081-ND	2.21	16.59	110.60
19	.075 (1.91)	.125 (3.18)	.221 (5.61)	.072 (1.83)	.090 (2.29)	ED90083-ND	4.21	31.59	210.60
20	.067 (1.70)	.200 (5.08)	.324 (8.23)	.065 (1.65)	.125 (3.18)	ED90085-ND	4.72	35.37	235.80
21	.076 (1.93)	.180 (4.57)	.206 (5.23)	.071 (1.80)	.090 (2.29)	ED90082-ND	2.59	19.44	129.60
22	.091 (2.31)	.220 (5.59)	.253 (6.43)	.088 (2.24)	.120 (3.05)	ED90078-ND	3.10	23.25	155.00
23	.089 (2.26)	.220 (5.59)	.317 (8.05)	.085 (2.16)	.125 (3.18)	ED90079-ND	4.16	31.23	208.20
24	.087 (2.21)	.195 (4.95)	.236 (5.99)	.085 (2.16)	.125 (3.18)	ED90077-ND	3.04	22.80	152.00
25	.087 (2.21)	.130 (3.30)	.236 (5.99)	.085 (2.16)	.125 (3.18)	ED90076-ND	2.82	21.18	141.20
26	.089 (2.26)	.131 (3.33)	.250 (6.35)	.080 (2.03)	.110 (2.79)	ED90088-ND	3.31	24.84	165.60
.040" – .050" (1.02mm – 1.27mm) Pin Diameter									
27	.102 (2.59)	.260 (6.60)	.290 (7.37)	.100 (2.54)	.118 (3.00)	ED5024-ND	2.52	18.87	125.80
28	.103 (2.62)	.260 (6.60)	.290 (7.37)	.088 (2.24)	.118 (3.00)	ED5023-ND	3.53	26.49	176.60
NEW! .040" – .050" (1.02mm – 1.27mm) Pin Diameter, RoHS Compliant NEW!									
27	.102 (2.59)	.260 (6.60)	.290 (7.37)	.100 (2.54)	.118 (3.00)	ED90087-ND	3.16	23.70	158.00
28	.103 (2.62)	.260 (6.60)	.290 (7.37)	.088 (2.24)	.118 (3.00)	ED90086-ND	3.72	27.93	186.20
.048" – .064" (1.22mm – 1.63mm) Pin Diameter									
29	.102 (2.59)	.180 (4.57)	.213 (5.41)	.098 (2.49)	.120 (3.05)	ED5029-ND	3.28	24.57	163.80
30	—	.267 (6.78)	.530 (13.46)	.103 (2.62)	.141 (3.58)	ED5032-ND	7.31	54.81	365.40
31	.108 (2.74)	.134 (3.40)	.250 (6.35)	.102 (2.59)	.136 (3.45)	ED5031-ND	4.03	30.24	201.60
NEW! .048" – .064" (1.22mm – 1.63mm) Pin Diameter, RoHS Compliant NEW!									
29	.102 (2.59)	.180 (4.57)	.213 (5.41)	.098 (2.49)	.120 (3.05)	ED90089-ND	3.73	27.99	186.60
30	—	.267 (6.78)	.530 (13.46)	.103 (2.62)	.141 (3.58)	ED90091-ND	7.66	57.45	383.00
31	.108 (2.74)	.134 (3.40)	.250 (6.35)	.102 (2.59)	.136 (3.45)	ED90090-ND	3.90	29.28	195.20
.065" – .082" (1.65mm – 2.08mm) Pin Diameter									
32	.144 (3.66)	.340 (8.64)	.412 (10.46)	.142 (3.61)	.188 (4.78)	ED5035-ND	5.52	41.40	276.00
NEW! .065" – .082" (1.65mm – 2.08mm) Pin Diameter, RoHS Compliant NEW!									
32	.144 (3.66)	.340 (8.64)	.412 (10.46)	.142 (3.61)	.188 (4.78)	ED90093-ND	6.34	47.58	317.20
.084" – .102" (2.13mm – 2.59mm) Pin Diameter									
33	.144 (3.66)	.415 (10.54)	.465 (11.81)	.142 (3.61)	.188 (4.78)	ED5034-ND	6.68	50.10	334.00
NEW! .084" – .102" (2.13mm – 2.59mm) Pin Diameter, RoHS Compliant NEW!									
33	.144 (3.66)	.415 (10.54)	.465 (11.81)	.142 (3.61)	.188 (4.78)	ED90092-ND	7.64	57.30	382.00
.008" - .013" (.20 mm - .33 mm) Pin Diameter									
34	.027 (0.69)	.053 (1.35)	.250 (6.35)	.012 (.30)	.026 (.66)	ED5062-ND	14.80	111.03	740.20
.015" – .025" (.38mm – .64mm) Pin Diameter									
35	.055 (1.40)	.200 (5.08)	.700 (17.78)	—	.072 (1.83)	ED5001-ND	1.41	10.59	70.60
	.055 (1.40)	.200 (5.08)	.560 (14.22)	—	.072 (1.83)	ED5002-ND	1.26	9.42	62.80
	.055 (1.40)	.200 (5.08)	.460 (11.68)	—	.072 (1.83)	ED5003-ND	1.62	12.12	80.80
NEW! .015" – .025" (.38mm – .64mm) Pin Diameter, RoHS Compliant NEW!									
35	.055 (1.40)	.200 (5.08)	.700 (17.78)	—	.072 (1.83)	ED90066-ND	2.00	15.00	100.00
	.055 (1.40)	.200 (5.08)	.560 (14.22)	—	.072 (1.83)	ED90067-ND	1.82	13.62	90.80
	.055 (1.40)	.200 (5.08)	.460 (11.68)	—	.072 (1.83)	ED90068-ND	1.74	13.02	86.80
.025" (.64mm) Pin Diameter									
36	.035 (.89)	.047 (1.19)	.260 (6.60)	.025 (.64)	.062 (1.57)	ED5055-ND	.84	6.30	42.00
36	.035 (.89)	.078 (1.98)	.291 (7.39)	.025 (.64)	.062 (1.57)	ED5056-ND	.66	4.98	33.20
37	.043 (1.09)	.076 (1.93)	.201 (5.11)	.025 (.64)	.062 (1.57)	ED5053-ND	.83	6.21	41.40
37	.043 (1.09)	.107 (2.72)	.232 (5.89)	.025 (.64)	.062 (1.57)	ED5054-ND	.67	5.04	33.60
.040" (1.02mm) Pin Diameter									
38	.043 (1.09)	.047 (1.19)	.221 (5.61)	.040 (1.02)	.070 (1.78)	ED5047-ND	.72	5.40	36.00
38	.043 (1.09)	.102 (2.59)	.252 (6.40)	.040 (1.02)	.070 (1.78)	ED5048-ND	.75	5.64	37.60
38	.043 (1.09)	.102 (2.59)	.290 (7.37)	.040 (1.02)	.070 (1.78)	ED5050-ND	.80	6.03	40.20
38	.043 (1.09)	.102 (2.59)	.402 (10.21)	.040 (1.02)	.070 (1.78)	ED5052-ND	.95	7.14	47.60
39	—	.282 (7.16)	.588 (14.94)	.040 (1.02)	.105 (2.67)	ED5061-ND	4.33	32.49	216.60
.040" (1.02mm) Pin Diameter									
40	.043 (1.09)	.082 (2.08)	.257 (6.53)	.040 (1.02)	.070 (1.78)	ED5058-ND	2.65	19.86	132.40

Fig.	Dimensions Inch (mm)			Digi-Key Part No.	Pricing		
	A	B	C		10	100	1,000
Modular Spring Contacts							
41	.098 (2.49)	.137 (3.48)	.039 (.991)	ED9000-ND	2.89	23.77	161.31
	.106 (2.69)	.177 (4.50)	.055 (1.40)	ED9001-ND	2.89	23.77	161.31
	.106 (2.69)	.197 (5.00)	.055 (1.40)	ED9002-ND	2.89	23.77	161.31
	.106 (2.69)	.217 (5.51)	.055 (1.40)	ED9003-ND	2.89	23.77	161.31
	.106 (2.69)	.236 (5.99)	.055 (1.40)	ED9004-ND	2.89	23.77	161.31
	.106 (2.69)	.256 (6.50)	.055 (1.40)	ED9005-ND	2.89	23.77	161.31
	.106 (2.69)	.276 (7.01)	.055 (1.40)	ED9006-ND	2.89	23.77	161.31
42	.042 (1.07)	.348 (8.84)	.055 (1.40)	ED9008-ND	2.89	23.77	161.31
43	.042 (1.07)	.692 (17.58)	.054 (1.40)	ED9009-ND	3.91	32.17	218.31
44	.198 (5.03)	.255 (6.48)	.055 (1.40)	ED5063-ND ***NEW!***	4.93	36.96	246.40
	.198 (5.03)	.275 (6.99)	.055 (1.40)	ED5064-ND ***NEW!***	4.93	36.96	246.40
	.198 (5.03)	.295 (7.49)	.055 (1.40)	ED5065-ND ***NEW!***	4.93	36.96	246.40
	.198 (5.03)	.315 (8.00)	.055 (1.40)	ED5066-ND ***NEW!***	4.93	36.96	246.40
	.198 (5.03)	.335 (8.51)	.055 (1.40)	ED5067-ND ***NEW!***	4.93	36.96	246.40
	.198 (5.03)	.350 (8.89)	.055 (1.40)	ED5068-ND ***NEW!***	4.93	36.96	246.40
	.198 (5.03)	.370 (9.40)	.055 (1.40)	ED5069-ND ***NEW!***	4.93	36.96	246.40
	.198 (5.03)	.390 (9.91)	.055 (1.40)	ED5070-ND ***NEW!***	4.93	36.96	246.40
	.198 (5.03)	.410 (10.41)	.055 (1.40)	ED5071-ND ***NEW!***	4.93	36.96	246.40
	.198 (5.03)	.430 (10.92)	.055 (1.40)	ED5072-ND ***NEW!***	4.93	36.96	246.40
45	.042 (1.07)	.297 (7.54)	.055 (1.40)	ED5073-ND ***NEW!***	7.33	54.96	366.40

Zig Zag Sockets

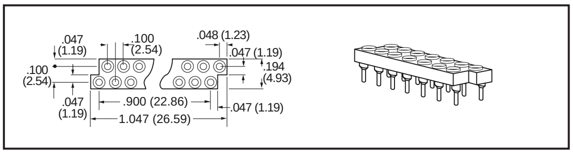

Double row staggered strips will accommodate Single-in-Line Zig-Zag memory packages on high density boards, left stackable.
Insertion Characteristics: 4-finger low force
Plating: Sleeve (Pin) – 200µ" Sn.; Contact (Clip) – 30µ" Au

No. of Pins	Insulator Body	Digi-Key Part No.	Price Each					Mill-Max Part No.
			1	10	100	500	1,000	
20	Left Stackable	ED2220-ND	1.37	.95	.77	.66	.55	410-93-220-10-001

ARIES ELECTRONICS, INC.

I.C. Sockets

Dual Leaf Tin Plated Wire Wrap

Contacts: Phosphor bronze CA510
Contact Finish: Tin plating 200μ" minimum

No. of Pins	Digi-Key Part No.	Pricing 1	25	100	500	1,000	2,500
8	C8108-ND	1.89	39.88	154.12	634.63	1178.60	1087.94/M
14	C8114-ND	2.66	56.32	217.69	896.36	1664.67	1536.62/M
16	C8116-ND	2.95	62.37	241.07	992.65	1843.49	1701.68/M
18	C8118-ND	3.07	64.96	251.06	1033.79	1919.89	1772.21/M
20	C8120-ND	3.77	79.70	308.04	1268.38	2355.57	2174.37/M
24	C8124-ND	4.75	100.49	388.39	1599.26	2970.06	2741.60/M
28	C8128-ND	5.41	114.35	441.96	1819.85	3379.73	3119.75/M
40	C8140-ND	7.78	164.62	636.27	2619.92	4865.57	4491.30/M

Dual Leaf Gold Inlay Wire Wrap

Contacts: Copper alloy CA725
Contact Finish: Gold inlay 50μ" over 50μ" nickel interliner

No. of Pins	Digi-Key Part No.	Pricing 1	25	100	500	1,000	2,500
8	C9108-ND	2.21	46.81	180.91	744.92	1383.43	1277.02/M
14	C9114-ND	3.65	77.11	298.04	1227.24	2279.16	2103.84/M
16	C9116-ND	4.18	88.39	341.62	1406.69	2612.42	2411.47/M
18	C9118-ND	4.63	97.90	378.40	1558.12	2893.66	2671.07/M
20	C9120-ND	5.12	108.30	418.58	1723.56	3200.90	2954.68/M
22	C9122-ND	5.57	117.81	455.36	1875.00	3482.14	3214.29/M
24	C9124-ND	6.14	129.97	502.34	2068.45	3841.41	3545.92/M
28	C9128-ND	7.21	152.46	589.29	2426.47	4506.30	4159.67/M
40	C9140-ND	9.95	210.49	813.56	3349.96	6221.36	5742.80/M

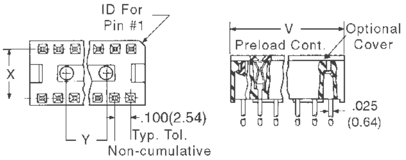

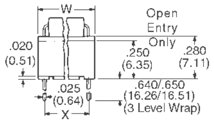

Pins	"V"±.25 Inch (mm)	"W"Max. Inch (mm)	"X"±.13 Inch (mm)	"Y"±.25 Inch (mm)
8	.465 (11.81)	.400 (10.16)	.300 (7.62)	n/a
14	.765 (19.43)	.400 (10.16)	.300 (7.62)	.300 (7.62)
16	.865 (21.97)	.400 (10.16)	.300 (7.62)	.400 (10.16)
18	.965 (24.51)	.400 (10.16)	.300 (7.62)	.400 (10.16)
20	1.065 (27.05)	.400 (10.16)	.300 (7.62)	.400 (10.16)
22	1.180 (29.97)	.500 (12.70)	.400 (10.16)	.500 (12.70)
24	1.280 (32.51)	.700 (17.78)	.600 (15.24)	.500 (12.70)
28	1.480 (37.59)	.700 (17.78)	.600 (15.24)	.500 (12.70)
40	2.080 (52.83)	.700 (17.78)	.600 (15.24)	.800 (20.32)

Features: • Universal mounting and packaging capabilities • Contacts accommodate .015" (.38mm) through .021" (.53mm) rectangular or round dual-in-line leads • Wire wrap posts held to true position of .015" (.38mm), providing a true position of .020" (.51mm) on boards for efficient automatic wire wrapping **Specifications:** Socket Body: UL94V-0 glass-filled polyester

Notes: Sockets meet requirements of Texas Instruments test specification TS-0003 and test report TR-0001. Accommodates standard (C) leads up to .001" x .018" (.03mm x .46mm). Sockets are capable of being automatically or simultaneously wire wrapped.

4-Pin Oscillator Sockets

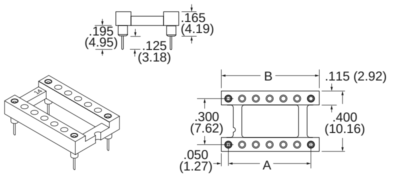

Specifications: • Socket Body: Blue UL94V-0 glass-filled polyester thermoplastic (PBT) • Pin Body Plating: 200μ minimum tin per MIL-T-10727 over 100μ minimum nickel per QQ-N-290 • Contact Plating: 10μ minimum gold per MIL-G-45204 over 50μ minimum nickel per QQ-N-290 • Contact Current Rating: 3A • Operating Temperature: 105°C • Insertion Force: 180 grams/pin; Withdrawal Force: 90 grams/pin; Normal Force: 140 grams/pin; based on a .018" (.46mm) diameter test lead • Accepts leads .015"-.025" (.38mm-.64mm) in diameter, .100"-.146" (2.54mm-3.71mm) in length

Size	Dimensions – Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
Full	.600 (15.24)	.700 (17.78)	A462-ND	.55	.47	.38	1107741
Half	.300 (7.62)	.400 (10.16)	A463-ND	.55	.47	.38	1108800

Open Frame Machine Pin Collet Sockets

Specifications: • Contacts: Collet: Beryllium copper with 10μ" gold plating; Body: Brass • Collet accepts .014"-.022" (.38mm-.56mm) diameter round leads • Platform: Glass-filled thermoplastic, UL94V-0 • Compatible with automatic insertion equipment • Collet is 10μ" gold plated

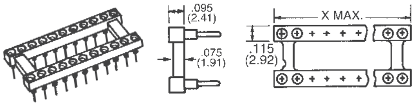

Pin Centers Inch (mm)	No. of Pins	Dim. "X" Inch (mm)	Digi-Key Part No.	Pricing 1	25	100
.300 (7.62)	8	.400 (10.16)	A400-ND	.46	10.73	24.32
.300 (7.62)	14	.700 (17.78)	A401-ND	.75	17.33	39.29
.300 (7.62)	16	.800 (20.32)	A402AE-ND	.85	19.73	44.73
.300 (7.62)	18	.900 (22.86)	A403AE-ND	1.06	24.45	55.44
.300 (7.62)	20	1.000 (25.40)	A404AE-ND	.96	22.05	50.00
.300 (7.62)	24	1.200 (30.48)	A405-ND	1.20	27.60	62.59
.400 (10.16)	22	1.100 (27.97)	A406-ND	1.40	28.63	86.56
.400 (10.16)	24	1.200 (30.48)	A407-ND	1.59	32.57	98.47
.600 (15.24)	24	1.200 (30.48)	A408-ND	1.17	26.46	64.29
.600 (15.24)	28	1.400 (35.56)	A409AE-ND	1.40	31.64	76.87
.600 (15.24)	32	1.600 (40.64)	A410AE-ND	1.60	36.05	87.59
.600 (15.24)	40	2.000 (50.80)	A411-ND	1.86	41.93	101.87
.600 (15.24)	48	2.400 (60.96)	A412-ND	2.41	54.39	132.14
.900 (22.86)	50	2.500 (63.50)	A413-ND	3.18	65.08	196.77
.900 (22.86)	64	3.200 (81.28)	A414-ND	4.06	83.03	251.02

DIP Headers and Covers

Order Headers and Covers Separately

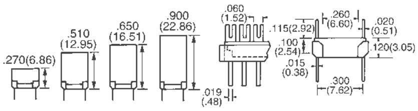

No. of Pins	DIP Header Part No.	Pricing 1	25	100	Cover Selection Guide – Inch (mm) .27 (6.86)	.51 (12.95)	.65 (16.51)	.90 (22.86)
8	A101-ND	1.11	24.26	78.57	A105-ND	—	—	—
14	A102AE-ND	1.56	34.18	110.71	A106-ND	A107-ND	A108-ND	A109-ND
16	A103-ND	1.69	36.96	119.73	A110AE-ND	A111-ND	A112-ND	A113-ND
18	A133-ND	1.89	41.37	134.01	A137-ND	—	—	—
20	A104AE-ND	2.02	44.10	142.86	A114-ND	—	—	—
24	A134-ND*	2.47	54.02	175.00	A138-ND	A139-ND	—	—
28	A135-ND*	2.90	63.42	205.44	A140-ND	—	—	—
40	A136-ND*	3.83	83.79	271.43	A142-ND	—	—	—

* .600 Pin Spacing

Cover Part Number	Pricing 1	25	100
A105-ND, A106-ND	.34	6.98	20.61
A107-ND - A111-ND	.37	7.59	22.39
A112-ND, A113-ND	.40	8.14	24.02
A114-ND	.43	8.74	25.80
A137-ND	.43	8.74	25.80
A138-ND	.45	9.60	27.57
A139-ND	.54	11.35	32.62
A140-ND	.60	12.59	36.17
A142-ND	.65	13.78	39.59

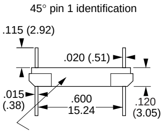

Depth of Bathtub: .100 (2.54)
Width of Bathtub: .500 (12.70)

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IC Pin Straightener

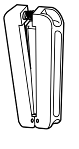

A998-ND
$29.65/1
$648.64/25

Dip Extractor

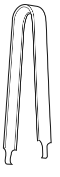

A999-ND
$5.87/1
$128.32/25

A998-ND
Anti-Static IC Pin Straightener:
Straighten IC legs with one squeeze. Fits .300" (7.62mm) ICs in one side of the tool and .600" (15.24mm) ICs in the other side of the tool. Brings leads into tolerance of .320" (8.13mm) or .620" (15.75mm), respectively.

Note: This tool does not straighten IC legs that are bent to such an extent that the pin-to-pin spacing is not .100" (2.54mm).

A999-ND Dip Extractor:
An extremely handy, low-cost tool for removing ICs from dip sockets.

Vertisockets
Vertical Mount

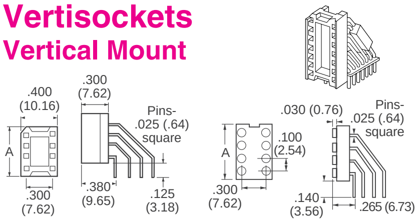

A117-ND – A121-ND **A122-ND – A125-ND**

Features: • Restricted entry for contact protection • Maximum electrical contact • Accepts standard LEDs, incandescent displays and large .5" (12.70mm) and .6" (15.24mm) high displays

Specifications: • **Contacts:** Grade A spring-tempered phosphor bronze • **Plating:** 10μ gold per MIL-G-45204 over 50μ nickel per QQN-290; 100μ tin plating per MIL-T-10727 over 50μ nickel per QQN-290 • **Socket:** Glass-filled thermoplastic

No. of Pins	Pin Centers Inch (mm)	Description	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	25
8	.300 (7.62)	Gold Plated	.45 (11.43)	A117-ND	4.49	98.78
14	.300 (7.62)	Gold Plated	.75 (19.05)	A118-ND	5.33	117.26
16	.300 (7.62)	Gold Plated	.85 (21.59)	A119-ND	6.93	152.46
8	.600 (15.24)	Gold Plated	—	A466-ND	5.67	119.07
14	.300 (7.62)	Tin Plated	.75 (19.05)	A120-ND	3.97	87.23
16	.300 (7.62)	Tin Plated	.85 (21.59)	A121-ND	5.38	118.42
10	.300 (7.62)	Collet Contacts	.495 (12.57)	A122-ND	6.19	136.18
14	.300 (7.62)	Collet Contacts	.695 (17.65)	A124-ND	7.70	169.46
16	.300 (7.62)	Collet Contacts	.795 (20.19)	A125-ND	8.51	187.11
8	.600 (15.24)	Gold Plated	—	A464-ND	4.44	93.19
10	.200 (5.08)	Gold Plated	—	A465-ND	5.33	111.93

Vertisockets
Horizontal Mount

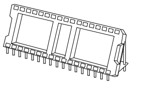

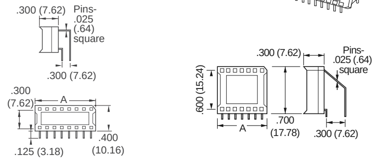

A126-ND – A129-ND **A130-ND – A132-ND**

Features: • Restricted entry for contact protection • Maximum electrical contact • Accepts standard LEDs, incandescent displays and large .5" (12.70mm) and .6" (5.24mm) high displays

Specifications: • **Contacts:** Grade A spring tempered phosphor bronze • **Plating:** 10μ gold per MIL-G-45204 over 50μ nickel per QQN-290; 100μ tin plating per MIL-T-10727 over 50μ nickel per QQN-290 • **Socket:** Glass-filled thermoplastic

No. of Pins	Pin Centers Inch (mm)	Dimension A Inch (mm)	Digi-Key Part No.	Pricing 1	25	100
8	.300 (7.62)	.45 (11.43)	A126-ND	3.70	81.46	251.87
14	.300 (7.62)	.75 (19.05)	A127-ND	4.52	99.33	307.14
16	.300 (7.62)	.85 (21.59)	A128-ND	4.91	108.02	334.01
20	.300 (7.62)	1.05 (26.67)	A129-ND	6.04	132.83	410.71
24	.600 (15.24)	1.25 (31.75)	A130-ND	9.29	204.44	632.14
28	.600 (15.24)	1.45 (36.83)	A131-ND	10.42	229.30	709.01
40	.600 (15.24)	2.05 (52.07)	A132-ND	13.57	298.60	923.30

Vertical Socket

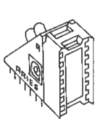

For displays on .300" (7.62mm) centers, 14 pin

These low-cost Vertisockets are recommended for high-volume vertical display mounting applications.

Available in tin-plated only

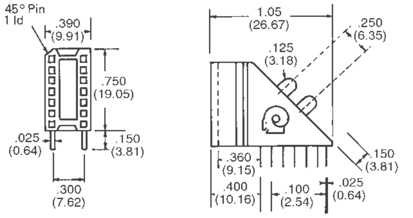

Digi-Key Part No.	Pricing 1	25	100	500	Aries Part No.
A116-ND	2.95	64.79	200.34	883.85	14-810-90R

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Lock / Eject DIP Sockets

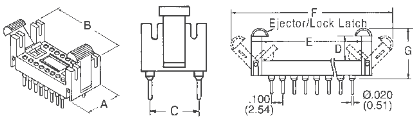

No. of Pins	Dimensions Inches (mm)						
	A	B	C	D	E	F	G
14	.400 (10.16)	.950 (24.16)	.300 (7.62)	.280 (7.11)	.770 (19.56)	1.300 (33.02)	.490 (12.45)
16	.400 (10.16)	1.050 (26.70)	.300 (7.62)	.280 (7.11)	.870 (22.10)	1.540 (39.12)	.490 (12.45)
24	.700 (17.78)	1.490 (37.85)	.600 (15.24)	.182 (4.62)	1.300 (33.02)	1.800 (45.72)	.460 (11.68)
28	.700 (17.78)	1.690 (42.90)	.600 (15.24)	.182 (4.62)	1.500 (38.10)	2.000 (50.80)	.460 (11.68)
32	.700 (17.78)	1.890 (48.00)	.600 (15.24)	.182 (4.62)	1.700 (43.18)	2.200 (55.88)	.460 (11.68)
40	.700 (17.78)	2.290 (58.20)	.600 (15.24)	.182 (4.62)	2.100 (53.34)	2.600 (66.04)	.460 (11.68)

No. of Pins	Fits Jumper Connectors, such as:	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
14	IC Packages	A514-ND	3.03	2.43	1.72	14-C280-10
16	IC Packages	A516-ND	3.28	2.63	1.87	16-C280-10
24	IC Packages	A524-ND	4.58	3.66	2.60	24-C182-10
28	IC Packages	A528-ND	4.85	3.88	2.75	28-C182-10
32	IC Packages	A532-ND	5.57	4.46	3.16	32-C182-10
40	IC Packages	A540-ND	7.06	5.65	4.00	40-C182-10

Series X518 Collet Sockets with Solder Tail Pins

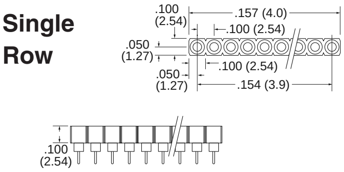

Features: • Can be cut to the number of pins desired to fit the application • Side-to-side and end-to-end stackable **Specifications:** • Socket Body: Black UL94V-0 nylon 4/6 • Contact Current Rating: 3A • Operating Temperature: Tin plating: 221°F (105°C); Gold plating: 257°F (125°C) • Accepts leads .015"-.025" (.381mm-.635mm) in diameter, .100" (2.54mm) minimum in length **Mounting:** Suggested PCB hole: .030" ±.002" (.76mm ±.05mm) diameter

No. of Pins	Description	Digi-Key Part No.	Price Each 1	25	Aries Part No.
40	Tin Plated	A460-ND	2.20	1.85	40-0518-10
40	Gold Plated	A461-ND	3.24	2.72	40-0518-11

Pin-Line SIP Headers

Fig. 1

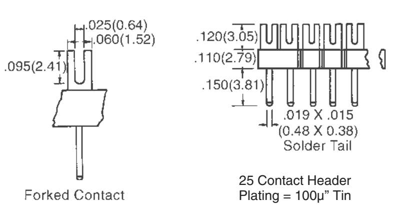

Fig. 2

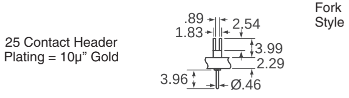

Features: • Coined contacts • "Break" feature on Pin-Line headers assures headers can be easily snapped off to any number of positions without loss or damage to any pins. No tool is required. The "break" feature minimizes stocking problems and gives immediate adaptability for any length header requirement to any grid or matrix pattern.

Fig.	Digi-Key Part No.	Price Each 1	10	25	100	Aries Part No.
1	A115-ND	2.42	—	2.12	1.72	25-0600-10
2	A738-ND	7.61	5.78	—	4.26	25-0625-11

Strip Line SIP Sockets

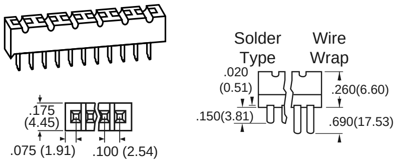

Features: Bifurcated contacts

Specifications:

- Contacts: Grade A spring temper phosphor bronze QQB-7500
- Plating: 100µ tin per MIL-T-10727
- Socket: Glass-filled thermoplastic

No. of Pins	Solder Tail Digi-Key Part No.	Price Each 1	25	100	Wire Wrap Digi-Key Part No.	Price Each 1	25	100
12	A200-ND	1.39	1.27	1.08	A204-ND	1.86	1.62	1.23
20	A201-ND	1.86	1.69	1.44	A205-ND	2.75	2.40	1.82
25	A202-ND	2.32	2.12	1.80	A206-ND	5.51	4.79	3.63
34	A203-ND	2.40	2.18	1.86	A207-ND	5.86	5.10	3.86

Surface Mount SOIC to DIP, SSOP to DIP, and SOJ to DIP Adapters

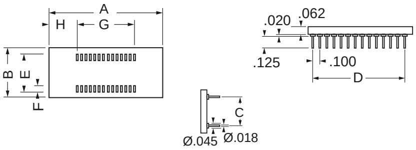

Specifications: • Board: .062" (1.57mm) thick, double-sided FR-4, with 1 oz. copper traces • Pins: Brass alloy 360, 1/2 hard • Plating: 200µ" (5.08 µm) minimum 93/7 tin/lead per MIL-T-10727 Type 1 over 100µ" (2.54µm) minimumnickel per QQ-N-290 **Mounting:** Suggested PCB hole: .028" (.71mm) diameter

No. of Pins	Digi-Key Part No.	Dimensions (Inches) A	B	C	D	E	F	G	H
8	A724-ND	.400	.460	.300	.300	.455	.155	.150	.121
14	A725-ND	.700	.450	.300	.600	.420	.138	.300	.180
14	A730-ND	.700	.400	.300	.600	.340	.060	.154	—
16	A726-ND	.800	.450	.300	.700	.420	.138	.350	.180
16	A731-ND	.800	.400	.300	.700	.340	.060	.179	—
18	A732-ND	.900	.400	.300	.800	.340	.060	.205	—
18	A736-ND	.900	.450	.300	.800	.420	.138	.400	.180
20	A727-ND	1.000	.450	.300	.900	.420	.138	.450	.180
20	A325-ND	1.000	.420	.300	.900	.350	.090	.600	.060
20	A733-ND	1.000	.400	.300	.900	.340	.060	.230	—
24	A720-ND	1.200	.700	.600	1.100	.455	.150	.550	.180
24	A322-ND	1.200	.450	.300	1.100	.420	.138	.550	.180
28	A320-ND	1.400	.700	.600	1.300	.450	.075	.650	.375
28	A321-ND	1.400	.400	.300	1.300	.350	.090	.650	.375
28	A734-ND	1.400	.400	.300	1.300	.340	.060	.333	—
28	A735-ND	1.400	.700	.600	1.300	.340	.070	.333	—
32	A323-ND	1.600	.700	.600	1.500	.650	.200	.750	.425
32	A324-ND	1.600	.530	.400	1.500	.500	.090	.750	.425

No. of Pins	Type	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
8	SOIC	A724-ND	5.96	5.01	3.26	08-350000-10
14	SOIC	A725-ND	5.96	5.01	3.26	14-350000-10
14	SSOP	A730-ND	26.83	22.54	14.65	14-351000-10
16	SOIC	A726-ND	5.96	5.01	3.26	16-350000-10
16	SSOP	A731-ND	26.83	22.54	14.65	16-351000-10
18	SSOP	A732-ND	23.86	20.04	13.03	18-351000-10
18	SOIC	A736-ND	5.87	5.04	4.59	18-350000-10
20	SOIC	A727-ND	5.96	5.01	3.26	20-350000-10
20	SOJ	A325-ND	6.27	5.38	4.89	20-350001-10
20	SSOP	A733-ND	26.83	22.54	14.65	20-351000-10
24	SOIC	A720-ND	9.92	8.34	5.42	24-650000-10
24	SOIC	A322-ND	4.17	3.58	3.26	24-350000-10
28	SOIC	A320-ND	9.83	8.43	7.67	28-650000-10
28	SOIC	A321-ND	6.27	5.38	4.89	28-350002-10
28	SSOP	A734-ND	23.38	19.64	12.77	28-351000-10
28	SSOP	A735-ND	37.21	31.26	20.32	28-651000-10
32	SOJ	A323-ND	10.35	8.87	8.08	32-650000-10
32	SOJ	A324-ND	9.10	7.80	7.10	32-450001-10

Pin-Line Sockets with "Break" Feature

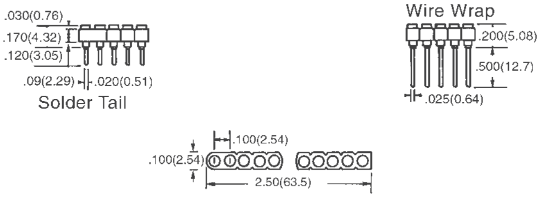

Features:

- Tin-plated Pin-Line sockets can be snapped apart into any number of pins without damage or loss of pins. • Pin-Line sockets are low profile and used for mounting devices with .100" (2.54mm) spacing between pins. • Rows of socket strips may be mounted on any centers or side-by-side for .100" (2.54mm) grid or matrix patterns. Strips also butt end-to-end and maintain .100" (2.54mm) spacing.

No. of Pins	Digi-Key Part No.	Price Each 1	25	100
Solder Tail Dip Socket with Screw Machined Pin				
25	A208-ND	2.31	2.04	1.58
Wire Wrap Socket with Screw Machined Pin				
25	A209-ND	5.41	4.70	3.56

Quad Flat Pack (QFP) to PGA Adapters

Fig. 1

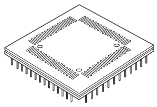

Fig. 2

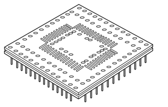

Features:

- Adapters convert surface mount type (SMD) Quad Flat Pack (QFP) packages to standard pin grid array through-hole packages on .100" (2.54mm) pin spacing. This allows SMD QFP packages to be used in standard PGA and PGA ZIF sockets, which is extremely useful for testing.
- SMD QFP packages are typically less expensive and often more readily available than their through-hole PGA counterparts.
- Users do not have to redesign through-hole boards in order to utilize the advantages of the SMD QFP packages.

Fig.	Chip Type/ Mfg.	Pads No.	PGA No.	Pins/ Matrix	Digi-Key Part No.	Price Each 1	25	Aries Part No.
1	JEDEC	132	132	13x13	A174-ND	32.20	27.60	95-132I25
2	EIAJ	100	100	13x13	A175-ND	31.13	26.69	96-100M65
1	EIAJ	160	160	15x15	A176-ND	31.13	26.69	96-160M65
—	EIAJ	208	208	17x17	A722-ND	45.94	39.38	96-208M50

ARIES®
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Surface Mount PLCC to DIP Adapters

Materials: • Pins and Contacts: Phosphor bronze adapter **• Body:** FR-4, .062" (1.57mm) thick **• Socket:** LCP, UL94V-0 rated **• Pads & Traces:** 1 oz. minimum copper. **Plating: • Pins:** 200µ" tin per MIL-T-10727 over 100µ" nickel per QQ-N-290 **• Contacts:** 150µ" 90/10 tin/lead

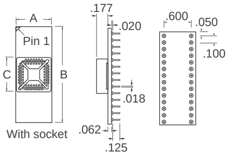

No.of Pins	Dimensions (Inch) A	B	C	Digi-Key Part No.	Price Each 1	25	Aries Part No.
28	.77	1.40	.705	A326-ND	23.85	20.45	28-653000-10
32	.705	1.60	.805	A721-ND	38.41	32.27	32-653000-10
44	.97	2.20	.910	A327-ND	27.47	23.55	44-653000-10
68	1.28	3.40	1.220	A328-ND	31.79	27.25	68-653000-10
84	1.48	4.20	1.420	A329-ND	31.79	27.25	84-653000-10

TO to DIP Adapter/Socket

Features: 8-pin DIP IC socket on the top and a circular 8-pin TO can male pin footprint on the bottom, can be readily mounted on boards having TO thru-hole footprints without having to redesign the board. **Specifications: • Socket Body**: Black UL94V-0 glass-filled polyester thermoplastic **• Female Pin Body Plating**: 200µ" minimum tin over 100µ" minimum nickel **• Contact Plating:** 10µ" minimum gold over 50µ" minimum nickel **• Male Pin:** Brass alloy 360 **• Male Pin Plating:** 200µ" minimum tin **• Current rating:** 3 Amps **• Operating Temperature:** 221°F (105°C) Tin plating **•** Accepts leads .015"-.025" (.38mm-.64mm) in diameter, .100"-.125" (2.54mm-3.18mm) long **Mounting Considerations:** Suggested PCB hole size: .028" (.71mm) diameter

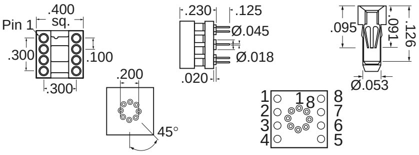

Digi-Key Part No.	Price Each 1	25	100	500	Aries Part No.
A330-ND	6.05	5.19	4.72	4.32	1109523

Adapter Sockets

A501/502

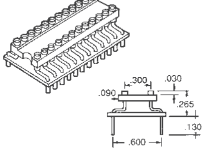

A503/504

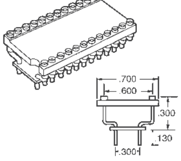

No. of Pins	Description (Inch)	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	.300 ~ .600	A501-ND	7.30	5.55	3.65	1106396-24
28	.300 ~ .600	A502-ND	7.98	6.07	3.99	1106396-28
24	.600 ~ .300	A503-ND	7.30	5.55	3.65	1107254-24
28	.600 ~ .300	A504-ND	7.98	6.07	3.99	1107254-28

PGA Zero Insertion Force (ZIF) Sockets

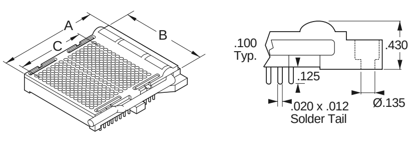

Features: • The Aries ZIF PGA is an extremely rugged, yet smooth acting test socket. • A strong metal cam activates the contacts which are normally closed. This prevents dependency on the plastic for contact force. • Housing of glass filled PPS, UL94V-0 rated

Specifications: • Contacts: Beryllium copper **• Temperature Rating:** -65°C ~ 125°C **• Housing:** Glass filled PPS, UL94V-0 rated **• Handle:** Stainless steel

Grid Size	No. of Pins	Dimensions (Inch) A	B	C	Digi-Key Part No.	Price Each
13 x 13	169	1.894	1.675	1.200	A314-ND	29.44
15 x 15	225	2.094	1.875	1.400	A315-ND	36.69
17 x 17	289	2.294	2.075	1.600	A316-ND	44.75
19 x 19	361	2.494	2.275	1.800	A317-ND	53.82
21 x 21	441	2.694	2.475	2.000	A318-ND	63.98

Surface Mount Universal SOIC Zero Insertion Force (ZIF) Test Sockets

Socket Accepts: SOIC gull wing & J-lead devices up to 44 pin devices; .050" (1.27mm) lead pitch; body widths from .15" (3.81mm) to .60" (15.24mm)
Materials: • Body: Glass-filled PPS, UL94V-0 rated
• Contacts: Beryllium copper alloy per QQ-C-543
• Hardware: Stainless Steel
Plating: 20µ" minimum gold per MIL-G-45204 over 100µ": minimum nickel per QQ-N-290 over 20µ" minimum copper per MIL-C-14550

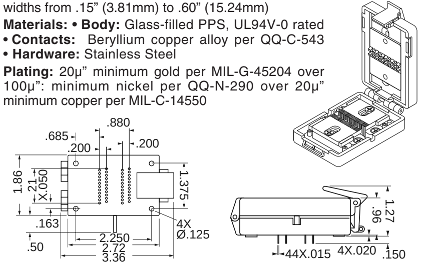

Digi-Key Part No.	Price Each	Aries Part No.
A339-ND	134.39	44-547-11
44 Pos. DIP Adapter (Converts A339-ND to standard 44 Pos. DIP)		
A728-ND	61.45	44-647-10

Zero Insertion Force (ZIF) Sockets

Specifications: • Contacts: Heat treated beryllium copper **• Plating:** 100µ tin plating per MIL-T-10727 **• Sockets:** Glass filled thermoplastic

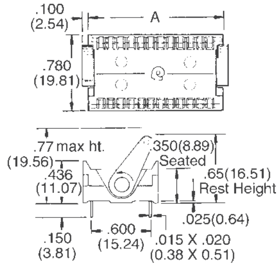

No. of Pins	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	1.30 (33.02)	A150-ND	8.78	7.91	7.47	24-516-10
28	1.62 (41.15)	A146-ND	9.48	8.54	8.07	28-516-10
40	2.10 (53.34)	A152-ND	12.48	11.23	10.62	40-516-10

PLCC ZIF Test Sockets

Features: • Zero Insertion Force • Corner posts provide positive package registration • 12µ" Gold plating • 10,000 insertions minimum.

Application: • Can be shimmed to accept many Ceramic, Leadless and J-Lead Packages.

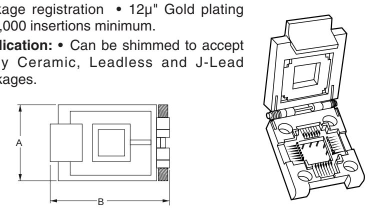

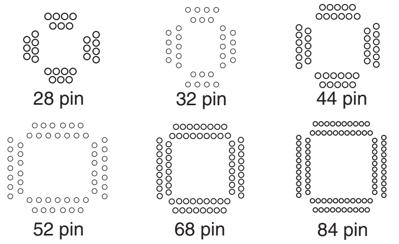

No. of Pins	Dimensions Inch (mm) A	B	Digi-Key Part No.	Price Each 1	25	100
28	1.181 (30.00)	1.605 (40.77)	A310-ND	61.45	54.43	47.93
32	1.180 (29.97)	1.583 (40.21)	A449-ND	65.63	55.13	35.84
44	1.339 (34.01)	1.772 (45.01)	A311-ND	65.99	58.45	51.47
52	1.500 (38.10)	1.920 (48.77)	A450-ND	65.63	55.13	35.84
68	1.654 (42.01)	2.343 (59.51)	A312-ND	81.21	71.93	63.35
84	1.890 (48.01)	2.580 (65.53)	A313-ND	90.92	80.53	70.92

Universal Zero Insertion Force (ZIF) Test Sockets

The new Aries Universal Test Socket is a direct replacement for other test sockets currently on the market, with a number of significant advantages.
• .900 (22.86) overall height with contact level up • Available 24, 28, 32, 40, 48 pins in body of UL94V-0 rated polyphenylene sulfide • Contacts available tin plated (for up to 105°C) or gold plated (for up to 150°C) • Insulation Resistance – 1000MΩ minimum Dielectric withstanding voltage – 1000 VAC minimum • Contact rating – 1 amp • All pin count sockets (24, 28, 32, 40, 48) go into p.c.b.'s with .600 (15.24) centers. • Sockets can be soldered into p.c. boards or plugged into any socket. • Contacts are normally closed to eliminate dependence on plastic to sustain contact.

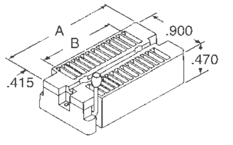

No. of Pins	Dim. (Inch) A	B
24	1.74	1.10
28	1.94	1.30
32	2.14	1.50
40	2.54	1.90
48	2.94	2.30

No. of Pins	Contact Plating	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	Tin	A300-ND	7.90	6.92	6.73	24-6554-10
24	Gold	A301AE-ND	11.42	10.00	9.71	24-6554-11
28	Tin	A302-ND	9.02	7.90	7.67	28-6554-10
28	Gold	A303-ND	12.38	10.84	10.53	28-6554-11
32	Tin	A304-ND	10.07	8.81	8.57	32-6554-10
32	Gold	A305-ND	13.73	12.02	11.68	32-6554-11
40	Tin	A306-ND	12.02	10.52	10.22	40-6554-10
40	Gold	A307-ND	16.39	14.34	13.94	40-6554-11
48	Tin	A308-ND	14.10	12.34	11.99	48-6554-10
48	Gold	A309-ND	19.15	16.76	16.29	48-6554-11

Zero Insertion Force (ZIF) Lo-Profile Sockets

Features: A complete line of sizes, 24, 28 and 40 pin, low profile ZIF (zero insertion force) sockets provides a low cost solution for a test socket with a height of only .319" (8.10mm) [8, 10] and even with handle in open position, measures just .554" (14.07mm).

Specifications: • Pin: Spring temper beryllium copper, tin plated **• Body:** Glass filled polyester, UL94V-0 rated. **• Cam:** Cast metal

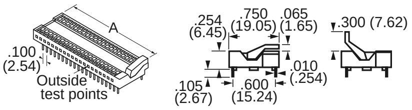

No. of Pins	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	1.450 (36.83)	A346-ND	6.12	5.57	4.74	24-526-10
28	1.650 (41.91)	A347-ND	6.61	6.01	5.11	28-526-10
40	2.250 (57.15)	A348-ND	7.94	7.23	6.15	40-526-10

Quick-Release Universal ZIF Test Socket

Features:

• Aries' Universal Test Socket accepts devices on .300" (7.62mm) to .600" (15.24mm) centers • Sockets go into PCB .600" (15.24mm) centers • Swing quick-release handle down to open contacts and insert device. Release and handle automatically returns as contacts close onto device leads.

Specifications:

• Socket Body: Black UL94V-0 Glass-filled Polyphenylene Sulfide (PPS) **• Handle:** stainless steel **• Contact Current Rating:** 1 amp **• Insulation Resistance:** 1000MΩ minimum **• Life Cycle:** 25,000 ~ 50,000 cycles **• Operating Temperature:** 221°F (105°C) Tin plating; 302°F (150°C) Gold plating **• Retention Force (when closed):** 55 grams/pin based on a .020" (.51mm) diameter test lead • Accepts leads .015"-.035" (.38mm-.89mm) wide, .100"-.280" (2.79mm-7.11mm) long

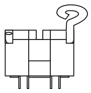
Loop Handle

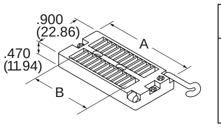

No. of Pins	Dim. – In. (mm) A	B
24	1.79 (45.47)	1.10 (27.94)
28	1.99 (50.55)	1.30 (33.02)
32	2.19 (55.63)	1.50 (38.10)
40	2.59 (65.79)	1.90 (48.26)
48	2.99 (75.95)	2.30 (58.42)

No. of Pins	Description	Digi-Key Part No.	Price Each 1	25	100	Aries Part No.
24	Tin Plated	A439-ND	10.36	8.71	7.05	24-6574-10
24	Gold Plated	A440-ND	12.00	10.08	8.17	24-6574-11
28	Tin Plated	A441-ND	11.83	9.94	8.05	28-6574-10
28	Gold Plated	A442-ND	16.25	13.66	11.06	28-6574-11
32	Tin Plated	A443-ND	13.34	11.21	9.08	32-6574-10
32	Gold Plated	A444-ND	18.18	15.28	12.37	32-6574-11
40	Tin Plated	A445-ND	15.77	13.25	10.73	40-6574-10
40	Gold Plated	A446-ND	21.50	18.07	14.63	40-6574-11
48	Tin Plated	A447-ND	18.50	15.54	12.59	48-6574-10
48	Gold Plated	A448-ND	25.14	21.12	17.11	48-6574-11

ASSMANN

IC Sockets Dual Wipe Solder Tail

Contacts: • Phosphor Bronze. Protection against capillary version. **Mechanical and Electrical Data:** • Transitional Resistance: ≤12mΩ. Capacity between adjacent contacts: <0.9 pF. Capacity between opposite adjacent contacts: <0.4 pF. Breakdown Voltage: 600 Veff. • Insertion Force: ≤1.5N • Extraction Force: ≥0.7N. **Insulators:** • Polyester GV,VO,UL 94 • Insulation Resistance: $10^{12}\Omega$ • Operating Temperature Range: -65°C ~ 150°C

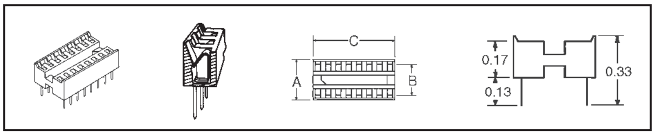

No. of Cont.	Con-tact Plating	Dimensions (Inch) A	B	C	Digi-Key Part No.	Price Each 1	10	100	500	Assmann Part No.
6	Tin	0.39	0.30	0.30	AE8906-ND	.17	.14	.11	.08	A06-LC-TT
6	Tin	0.39	0.30	0.30	AE1485-NDΔ ***NEW!***	.59	.47	.38	.28	A06-LC-TT-R
6	Gold	0.39	0.30	0.30	AE9806-ND	.33	.29	.23	.20	A06-LCG-T
6	Gold	0.39	0.30	0.30	AE1486-NDΔ ***NEW!***	1.26	1.10	.89	.76	A06-LCG-T-R
8	Tin	0.39	0.30	0.39	AE9986-NDΔ ***NEW!***	.23	.19	.16	.11	A08-LC-TT-R
8	Gold	0.39	0.30	0.39	AE9808-ND	.36	.32	.22	.18	A08-LCG-T
8	Gold	0.39	0.30	0.39	AE9987-NDΔ ***NEW!***	.39	.34	.28	.24	A08-LCG-T-R
8	Tin	0.40	0.30	0.40	AE9841-ND†	.14	.12	.10	.07	A08-LC-TR
8	Tin	0.40	0.30	0.40	AE9988-ND†Δ ***NEW!***	.37	.30	.25	.18	A08-LC-TR-R
14	Tin	0.39	0.30	0.70	AE8914-ND	.17	.14	.12	.08	A14-LC-TT
14	Tin	0.39	0.30	0.70	AE9989-NDΔ ***NEW!***	.28	.23	.18	.14	A14-LC-TT-R
14	Gold	0.39	0.30	0.70	AE9814-ND	.63	.56	.38	.31	A14-LCG-T
14	Gold	0.39	0.30	0.70	AE9990-NDΔ ***NEW!***	.45	.39	.32	.27	A14-LCG-T-R
14	Tin	0.40	0.30	0.70	AE9842-ND†	.19	.16	.13	.09	A14-LC-TR
14	Tin	0.40	0.30	0.70	AE9991-ND†Δ ***NEW!***	.37	.30	.25	.18	A14-LC-TR-R
16	Tin	0.39	0.30	0.80	AE8916-ND	.19	.16	.13	.10	A16-LC-TT
16	Tin	0.39	0.30	0.80	AE9992-NDΔ ***NEW!***	.32	.26	.21	.16	A16-LC-TT-R
16	Gold	0.39	0.30	0.80	AE9816-ND	.72	.63	.44	.35	A16-LCG-T
16	Gold	0.39	0.30	0.80	AE9993-NDΔ ***NEW!***	.51	.45	.36	.31	A16-LCG-T-R
16	Tin	0.40	0.30	0.80	AE9843-ND†	.22	.18	.14	.11	A16-LC-TR
16	Tin	0.40	0.30	0.80	AE9994-ND†Δ ***NEW!***	.44	.35	.29	.21	A16-LC-TR-R
18	Tin	0.39	0.30	0.90	AE8918-ND	.22	.18	.15	.11	A18-LC-TT
18	Tin	0.39	0.30	0.90	AE9995-NDΔ ***NEW!***	.37	.30	.24	.18	A18-LC-TT-R
18	Gold	0.39	0.30	0.90	AE9818-ND	.81	.71	.49	.40	A18-LCG-T
18	Gold	0.39	0.30	0.90	AE9996-NDΔ ***NEW!***	.57	.50	.40	.35	A18-LCG-T-R
18	Tin	0.40	0.30	0.90	AE9844-ND†	.23	.19	.16	.11	A18-LC-TR
18	Tin	0.40	0.30	0.90	AE9997-ND†Δ ***NEW!***	.49	.39	.32	.23	A18-LC-TR-R
20	Tin	0.39	0.30	1.00	AE8920-ND	.18	.16	.11	.09	A20-LC-TT
20	Tin	0.39	0.30	1.00	AE9998-NDΔ ***NEW!***	.41	.34	.27	.20	A20-LC-TT-R
20	Gold	0.40	0.30	1.00	AE9820-ND	.81	.71	.57	.49	A20-LCG
20	Gold	0.40	0.30	1.00	AE9999-NDΔ ***NEW!***	.63	.55	.45	.38	A20-LCG-T-R
20	Tin	0.40	0.30	1.00	AE9845-ND†	.26	.21	.17	.13	A20-LC-TR
20	Tin	0.40	0.30	1.00	AE10000-ND†Δ ***NEW!***	.54	.43	.35	.25	A20-LC-TR-R
22	Tin	0.50	0.40	1.10	AE8922-ND	.49	.39	.32	.23	A22-LC-T2
22	Gold	0.50	0.40	1.10	AE9822-ND	.89	.78	.63	.54	A22-LCG
24	Tin	0.70	0.60	1.20	AE8924-ND	.29	.24	.19	.14	A24-LC-TT
24	Tin	0.70	0.60	1.20	AE10001-NDΔ ***NEW!***	.50	.41	.33	.24	A24-LC-TT-R
24	Gold	0.70	0.60	1.20	AE10002-NDΔ ***NEW!***	.77	.68	.55	.47	A24-LCG-T-R
24	Tin	0.70	0.60	1.20	AE10003-ND†Δ ***NEW!***	.65	.52	.42	.31	A24-LC-TR-R
28	Tin	0.70	0.60	1.40	AE8928-ND	.34	.28	.23	.16	A28-LC-TT
28	Tin	0.70	0.60	1.40	AE10004-NDΔ ***NEW!***	.59	.48	.39	.28	A28-LC-TT-R
28	Gold	0.70	0.60	1.40	AE9828-ND	1.14	.99	.80	.69	A28-LCG
28	Gold	0.70	0.60	1.40	AE10005-NDΔ ***NEW!***	.90	.78	.63	.54	A28-LCG-T-R
28	Tin	0.70	0.60	1.40	AE9849-ND†	.35	.29	.23	.17	A28-LC-TR
28	Tin	0.70	0.60	1.40	AE10006-ND†Δ ***NEW!***	.76	.61	.50	.36	A28-LC-TR-R
32	Tin	0.70	0.60	1.60	AE9850-ND†	.37	.30	.24	.18	A32-LC-TR
32	Tin	0.70	0.60	1.60	AE10007-ND†Δ ***NEW!***	.86	.70	.56	.41	A32-LC-TR-R
40	Tin	0.70	0.60	2.00	AE8940-ND	.49	.39	.32	.23	A40-LC-TT
40	Tin	0.70	0.60	2.00	AE10008-NDΔ ***NEW!***	.86	.70	.56	.41	A40-LC-TT-R
40	Gold	0.70	0.60	2.00	AE9840-ND	1.63	1.42	1.15	.98	A40-LCG
40	Gold	0.70	0.60	2.00	AE10009-NDΔ ***NEW!***	1.29	1.12	.91	.78	A40-LCG-T-R
40	Tin	0.70	0.60	2.00	AE9851-ND†	.46	.37	.30	.22	A40-LC-TR
40	Tin	0.70	0.60	2.00	AE10010-ND†Δ ***NEW!***	1.09	.88	.71	.51	A40-LC-TR-R

† Retentive Leg Version Δ RoHS Compliant

IC Sockets Machine Pin

With gold plated precision spring contacts, open frame, solder pin and wire wrap terminals.

Contacts: • Contact Spring: copper alloy, slit 4 times. Surface gold over nickel. Absolute protection against capillary action. Connecting pins: brass, solder version.

Mechanical and Electrical Data: • Depth of Insertion: 2.3 to 3.7 mm. Vibration: 20g after MIL-STD-202. Shock: 150g to MIL-STD-202. Insertion Frequency: >1000. Transitional Resistance after 100 insertion cycles: ≤12mΩ. Capacity between adjacent contacts: <0.9pF. Capacity between opposite adjacent contacts: <0.4pF. Air and creepage space between adjacent contacts: >0.4mm. Tensile strength: 1000 Veff.

Insulators: • Polyester GV, VO self-extinguishing, UL 94. Insulation Resistance: $10^{12}\Omega$. Operating Temperature Range: -65°C ~ 150°C. Retains shape in solder bath. Resistant to detergent.

Contact Plating: • Pin: Tin; Clip: Gold.

Fig. 1

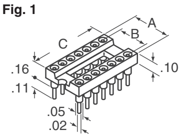

Fig. 2

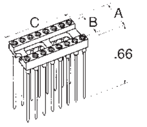

Fig.	No. of Cont.	Dimensions (Inch) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Assmann Part No.
Solder Tail									
Gold Flash									
1	6	0.40	0.30	0.40	AE10022-NDΔ ***NEW!***	.30	.26	.21	AR06-HZL-TT-R
	8	0.40	0.30	0.40	AE10011-NDΔ ***NEW!***	.39	.34	.28	AR08-HZL-TT-R
	14	0.40	0.30	0.70	AE10012-NDΔ ***NEW!***	.63	.55	.45	AR14-HZL-TT-R
	16	0.40	0.30	0.80	AE7216-ND	.72	.63	.51	AR16-HZL-TT
	16	0.40	0.30	0.80	AE10013-NDΔ ***NEW!***	.75	.65	.53	AR16-HZL-TT-R
	18	0.40	0.30	0.90	AE7218-ND	.92	.73	.59	AR18-HZL-TT
	18	0.40	0.30	0.90	AE10014-NDΔ ***NEW!***	.83	.72	.58	AR18-HZL-TT-R
	20	0.40	0.30	1.00	AE10015-NDΔ ***NEW!***	.90	.78	.63	AR20-HZL-TT-R
	22	0.50	0.40	1.10	AE7222-ND	1.02	.89	.72	AR22-HZL-TT
	24	0.70	0.60	1.20	AE7224-ND	1.25	1.11	.76	AR24-HZL-TT
	24	0.70	0.60	1.20	AE10016-NDΔ ***NEW!***	1.11	.97	.78	AR24-HZL-TT-R
	28	0.70	0.60	1.20	AE7228-ND	1.45	1.28	.88	AR28-HZL-TT
	28	0.70	0.60	1.40	AE10017-NDΔ ***NEW!***	1.35	1.17	.95	AR28-HZL-TT-R
	40	0.70	0.60	2.00	AE10018-NDΔ ***NEW!***	1.80	1.56	1.26	AR40-HZL-TT-R
	48	0.70	0.60	2.40	AE7248-ND	2.37	2.06	1.66	AR48-HZL-TT
	48	0.70	0.60	2.40	AE10019-NDΔ ***NEW!***	2.22	1.93	1.56	AR48-HZL-TT-R
10µ" Gold									
1	6	0.40	0.30	0.30	AE10021-NDΔ ***NEW!***	.54	.47	.38	AR06-HZL/01-TT-R
	14	0.40	0.30	0.70	AE7302-ND	1.11	.96	.78	AR14-HZL/01-TT
	14	0.40	0.30	0.70	AE10023-NDΔ ***NEW!***	1.26	1.10	.89	AR14-HZL/01-TT-R
	16	0.40	0.30	0.80	AE7303-ND	1.26	1.09	.88	AR16-HZL/01-TT
	16	0.40	0.30	0.80	AE10024-NDΔ ***NEW!***	1.44	1.25	1.01	AR16-HZL/01-TT-R
	20	0.40	0.30	1.00	AE7304-ND	1.50	1.30	1.05	AR20-HZL/01-TT
	20	0.40	0.30	1.00	AE10025-NDΔ ***NEW!***	1.86	1.62	1.31	AR20-HZL/01-TT-R
	24	0.70	0.60	1.20	AE7305-ND	1.85	1.61	1.30	AR24-HZL/01-TT
1	24	0.70	0.60	1.20	AE10026-NDΔ ***NEW!***	2.19	1.90	1.54	AR24-HZL/01-TT-R
	24	0.40	0.30	1.20	AE10027-NDΔ ***NEW!***	2.19	1.90	1.54	AR24-HZL/7/01-TT-R
	28	0.70	0.60	1.40	AE7307-ND	2.16	1.87	1.51	AR28-HZL/01-TT
	28	0.70	0.60	1.40	AE10028-NDΔ ***NEW!***	2.55	2.21	1.79	AR28-HZL/01-TT-R
	28	0.40	0.30	1.40	AE7308-ND	2.16	1.87	1.51	AR28-HZL/7/01-TT
	28	0.40	0.30	1.40	AE10029-NDΔ ***NEW!***	2.55	2.21	1.79	AR28-HZL/7/01-TT-R
	32	0.70	0.60	1.60	AE7309-ND	2.46	2.14	1.73	AR32-HZL/01-TT
	32	0.70	0.60	1.60	AE10030-NDΔ ***NEW!***	2.91	2.53	2.04	AR32-HZL/01-TT-R
	40	0.70	0.60	2.00	AE7310-ND	3.06	2.66	2.15	AR40-HZL/01-TT
	40	0.70	0.60	2.00	AE10031-NDΔ ***NEW!***	3.66	3.18	2.57	AR40-HZL/01-TT-R
	48	0.70	0.60	2.40	AE7311-ND	3.74	3.25	2.62	AR48-HZL/01-TT
	48	0.70	0.60	2.40	AE10032-NDΔ ***NEW!***	4.38	3.80	3.07	AR48-HZL/01-TT-R
30µ" Gold									
1	6	0.40	0.30	0.30	AE7312-ND	.72	.63	.51	AR06-HZL/07-TT
	6	0.40	0.30	0.30	AE10033-NDΔ ***NEW!***	.96	.84	.68	AR06-HZL/07-TT-R
	8	0.40	0.30	0.40	AE7313-ND	.93	.81	.66	AR08-HZL/07-TT
	8	0.40	0.30	0.40	AE10034-NDΔ ***NEW!***	1.29	1.12	.91	AR08-HZL/07-TT-R
	14	0.40	0.30	0.70	AE7314-ND	1.47	1.28	1.03	AR14-HZL/07-TT
	14	0.40	0.30	0.70	AE10035-NDΔ ***NEW!***	2.22	1.93	1.56	AR14-HZL/07-TT-R
	16	0.40	0.30	0.80	AE10036-NDΔ ***NEW!***	2.58	2.24	1.81	AR16-HZL/07-TT-R
	18	0.40	0.30	0.90	AE7316-ND	1.86	1.62	1.31	AR18-HZL/07-TT
	18	0.40	0.30	0.90	AE10037-NDΔ ***NEW!***	2.82	2.45	1.98	AR18-HZL/07-TT-R
	20	0.40	0.30	1.00	AE7317-ND	2.07	1.80	1.45	AR20-HZL/07-TT
	20	0.40	0.30	1.00	AE10038-NDΔ ***NEW!***	3.24	2.81	2.27	AR20-HZL/07-TT-R
	24	0.70	0.60	1.20	AE7318-ND	2.47	2.14	1.73	AR24-HZL/07-TT
	24	0.70	0.60	1.20	AE10039-NDΔ ***NEW!***	3.87	3.36	2.71	AR24-HZL/07-TT-R
	24	0.40	0.30	1.20	AE10040-NDΔ ***NEW!***	3.87	3.36	2.71	AR24-HZL/7/07-TT-R
	28	0.70	0.60	1.40	AE10041-NDΔ ***NEW!***	4.50	3.90	3.15	AR28-HZL/07-TT-R
	28	0.40	0.30	1.40	AE7321-ND	2.88	2.50	2.02	AR28-HZL/7/07-TT
	28	0.40	0.30	1.40	AE10042-NDΔ ***NEW!***	4.50	3.90	3.15	AR28-HZL/7/07-TT-R
	32	0.70	0.60	1.60	AE10043-NDΔ ***NEW!***	5.16	4.48	3.62	AR32-HZL/07-TT-R
	40	0.70	0.60	2.00	AE7323-ND	4.55	3.95	3.19	AR40-HZL/07-TT
	40	0.70	0.60	2.00	AE10044-NDΔ ***NEW!***	6.36	5.52	4.46	AR40-HZL/07-TT-R
	48	0.70	0.60	2.40	AE7324-ND	4.97	4.31	3.48	AR48-HZL/07-TT
	48	0.70	0.60	2.40	AE10045-NDΔ ***NEW!***	7.68	6.66	5.38	AR48-HZL/07-TT-R
Wire Wrap									
2	8	0.40	0.30	0.40	AE7108-ND	1.06	.93	.64	AR08-HZW/T
	8	0.40	0.30	0.40	AE10046-NDΔ ***NEW!***	1.35	1.17	.95	AR08-HZW/T-R
	14	0.40	0.30	0.70	AE7114-ND	1.65	1.43	1.16	AR14-HZW/T
	14	0.40	0.30	0.70	AE10047-NDΔ ***NEW!***	1.86	1.62	1.31	AR14-HZW/T-R
	16	0.40	0.30	0.80	AE7116-ND	2.08	1.83	1.26	AR16-HZW/T
	16	0.40	0.30	0.80	AE10048-NDΔ ***NEW!***	2.13	1.85	1.50	AR16-HZW/T-R
	18	0.40	0.30	0.90	AE7118-ND	2.13	1.85	1.50	AR18-HZW/T
	18	0.40	0.30	0.90	AE10049-NDΔ ***NEW!***	2.40	2.08	1.68	AR18-HZW/T-R
	20	0.40	0.30	1.00	AE10050-NDΔ ***NEW!***	2.67	2.32	1.87	AR20-HZW/T-R
	24	0.70	0.60	1.20	AE7124-ND	2.85	2.47	2.00	AR24-HZW/T
	24	0.70	0.60	1.20	AE10051-NDΔ ***NEW!***	3.48	3.02	2.44	AR24-HZW/T-R
	28	0.70	0.60	1.40	AE7128-ND	3.30	2.86	2.31	AR28-HZW/T
	28	0.70	0.60	1.40	AE10052-NDΔ ***NEW!***	3.72	3.23	2.61	AR28-HZW/T-R
	40	0.70	0.60	2.00	AE7140-ND	5.21	4.59	3.16	AR40-HZW/T
	40	0.70	0.60	2.00	AE10053-NDΔ ***NEW!***	5.34	4.63	3.74	AR40-HZW/T-R
	64	1.00	0.90	3.20	AE10020-NDΔ ***NEW!***	8.82	7.65	6.18	AR64-HZW-T-R

Δ RoHS Compliant

ASSMANN

PLCC Sockets

Specifications: • **Contacts:** Phosphor bronze, tin and gold plated • **Current Rating:** 1A • **Insulating Resistance:** 1000MΩ minimum • **Withstanding Resistance:** 600Vrms • **Contact Resistance:** 30mΩ maximum • **Operating Temperature:** -55°C ~ 110°C • **Insulator:** PBT, UL 94V-0

Fig. 1

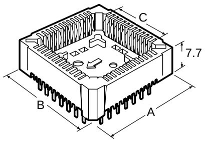

Fig. 2

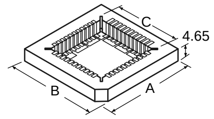

Fig.	No. of Cont.	Dimensions (Inch)			Digi-Key Part No.	Price Each			Assmann Part No.
		A	B	C		1	10	100	
PLCC-Thru Hole									
Tin									
1	20	0.61	0.61	0.20	AE7325-ND	.74	.65	.53	A-CCS20-Z
	20	0.61	0.61	0.20	AE10054-NDΔ ***NEW!***	1.02	.89	.72	A-CCS20-Z-R
	28	0.71	0.71	0.30	AE7326-ND	.78	.68	.55	A-CCS28-Z
	28	0.71	0.71	0.30	AE10055-NDΔ ***NEW!***	1.08	.94	.76	A-CCS28-Z-R
	32	0.71	0.81	0.30	AE7327-ND	.82	.72	.58	A-CCS32-Z
	32	0.71	0.81	0.30	AE10056-NDΔ ***NEW!***	1.25	1.08	.88	A-CCS32-Z-R
	44	0.93	0.93	0.50	AE10057-NDΔ ***NEW!***	1.29	1.12	.91	A-CCS44-Z-R
	52	1.02	1.02	0.60	AE7329-ND	.98	.85	.69	A-CCS52-Z
	52	1.02	1.02	0.60	AE10058-NDΔ ***NEW!***	1.41	1.23	.99	A-CCS52-Z-R
	68	1.23	1.23	0.80	AE7330-ND	1.00	.87	.70	A-CCS68-Z
	68	1.23	1.23	0.80	AE10059-NDΔ ***NEW!***	1.76	1.53	1.23	A-CCS68-Z-R
	84	1.42	1.42	1.00	AE10060-NDΔ ***NEW!***	1.91	1.66	1.34	A-CCS84-Z-R
Gold									
1	20	0.61	0.61	0.20	AE7332-ND	1.21	1.05	.85	A-CCS20-G
	20	0.61	0.61	0.20	AE10061-NDΔ ***NEW!***	1.16	1.01	.81	A-CCS20-G-R
	28	0.71	0.71	0.30	AE7333-ND	1.21	1.05	.85	A-CCS28-G
	28	0.71	0.71	0.30	AE10062-NDΔ ***NEW!***	1.31	1.14	.92	A-CCS28-G-R
	32	0.71	0.81	0.30	AE7334-ND	1.40	1.21	.98	A-CCS32-G
	32	0.71	0.81	0.30	AE10063-NDΔ ***NEW!***	1.37	1.19	.96	A-CCS32-G-R
	44	0.93	0.93	0.50	AE7335-ND	1.52	1.32	1.07	A-CCS44-G
	44	0.93	0.93	0.50	AE10064-NDΔ ***NEW!***	1.55	1.34	1.09	A-CCS44-G-R
	52	1.02	1.02	0.60	AE7336-ND	1.52	1.32	1.07	A-CCS52-G
	52	1.02	1.02	0.60	AE10065-NDΔ ***NEW!***	1.70	1.47	1.19	A-CCS52-G-R
	68	1.23	1.23	0.80	AE7337-ND	1.58	1.37	1.11	A-CCS68-G
	68	1.23	1.23	0.80	AE10066-NDΔ ***NEW!***	2.12	1.84	1.49	A-CCS68-G-R
	84	1.42	1.42	1.00	AE7338-ND	1.76	1.53	1.23	A-CCS84-G
	84	1.42	1.42	1.00	AE10067-NDΔ ***NEW!***	2.33	2.02	1.63	A-CCS84-G-R

Fig.	No. of Cont.	Dimensions (Inch)			Digi-Key Part No.	Price Each			Assmann Part No.
		A	B	C		1	10	100	
PLCC — Surface Mount									
Tin									
2	20	0.62	0.62	0.20	AE7339-ND	.67	.58	.47	A-CCS20-Z-SM
	20	0.62	0.62	0.20	AE10068-NDΔ ***NEW!***	.90	.78	.63	A-CCS20-Z-SM-R
	28	0.72	0.72	0.30	AE7340-ND	.71	.62	.50	A-CCS28-Z-SM
	28	0.72	0.72	0.30	AE10069-NDΔ ***NEW!***	1.02	.89	.72	A-CCS28-Z-SM-R
	32	0.72	0.82	0.40	AE10070-NDΔ ***NEW!***	1.02	.89	.72	A-CCS32-Z-SM-R
	44	0.92	0.92	0.50	AE10071-NDΔ ***NEW!***	1.17	1.02	.82	A-CCS44-Z-SM-R
	52	1.02	1.02	0.60	AE7343-ND	.96	.83	.67	A-CCS52-Z-SM
	52	1.02	1.02	0.60	AE10072-NDΔ ***NEW!***	1.35	1.17	.95	A-CCS52-Z-SM-R
	68	1.22	1.22	0.80	AE7344-ND	1.04	.90	.73	A-CCS68-Z-SM
	68	1.22	1.22	0.80	AE10073-NDΔ ***NEW!***	1.53	1.33	1.08	A-CCS68-Z-SM-R
	84	1.42	1.42	1.00	AE7345-ND	1.21	1.05	.85	A-CCS84-Z-SM

Δ ***RoHS Compliant***

OK Industries
Division of Jonard Industries Corp.

IC Insertion/Extraction Tools

K153-ND

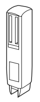

K154-ND

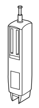

K155-ND

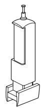

K156-ND

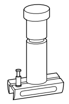

K157-ND

K158-ND

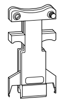

K293-ND

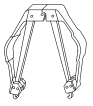

Description	Digi-Key Part No.	Price Each
14-16 Pin Dip/IC Inserter	K153-ND	9.60
14-16 Pin CMOS Safe Inserter	K154-ND	20.43
24-28 Pin CMOS Safe Inserter	K155-ND	20.43
36-40 Pin CMOS Safe Inserter	K156-ND	23.48
Extractor Tool, (8 to 24 pins)	K157-ND	3.15
Extractor Tool, (24 to 40 pins)	K158-ND	23.47
Insertion and Extraction Kit	K159-ND†	79.83
Universal PLCC Extraction Tool ESD Safe	K293-ND	21.74
Low Cost Universal PLCC Extractor	K374-ND	10.96

† The K159 Kit contains: K154, K155, K156, K157 and K158.

3M

Zero Insertion Force (ZIF) I.C. Sockets

ZIP DIP II

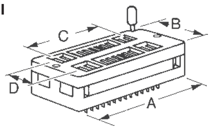

Econo ZIF

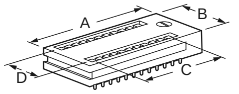

Receptacle for ZIP DIP Sockets

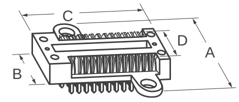

Universal ZIP DIP

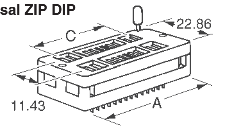

ZIP DIP II SOCKETS:

For test and burn-in of all common dual-in-line packages on .100" lead spacing. The zero insertion pressure feature allows easy insertion and removal without lead distortion. Receptacles are ideal for high use situations such as PROM programming.

ECONO ZIF SOCKETS:

Designed for OEM/end use applications where field replacement or programming of DIPs is required. The patented ZIF feature uses screwdriver rotation of a cam (instead of a lever) for security against vibration or accidental unloading. Leads are on .100" centers.

RECEPTACLES FOR ZIP DIP:

Features: • Matching receptacle for every ZIP DIP Socket • Mounting flange standard option to hold receptacle to board • Pre-tapped holes in receptacle body mate with screw-hole in socket to hold socket firmly to receptacle (2 screws provided with each receptacle) • Available in solder-tail options. **Physical Specifications:** • Insulation Material: Glass Reinforced Polysulfone, Flammability Rating: UL94V-0 • Color: Green • Marking: Part Number Identification • Contact Material: Beryllium Copper • Plating: 30µ" (.076µm) Gold — MIL-G-45204, Type II, Grade C over 50µ" (1.3µm) Sulfamate Nickel per QQ-N-290A, Class 2 or 75µ" (1.9µm) Nickel Boron. **Electrical Specifications:** • Current Rating: 1Amp • Insulation Resistance: >1x10^{12}Ω at 500Vdc • Withstanding Voltage: 1000Vrms at Sea Level. **Environmental Specifications:** • Temperature Rating Operating: -67°F ~ 302°F (-55°C ~ 150°C)

ZIP DIP SOCKETS .100 CENTERS - DOUBLE DIP:

Features: • For DIPs with .100" lead spacing • Extra wide contact zone allows insertion of DIPs with distance between rows from .300" through .600" • Lever actuated zero insertion force mechanism • Socket easily disassembles for repairability

No. of Pins	Contact Plating	Dimensions – Inch (mm)				Digi-Key Part No.	Pricing		3M Part No.
		A	B	C	D		1	10	
ZIP DIP II Sockets									
14	Gold	1.30 (33.02)	.60 (15.24)	.60 (15.24)	.300 (7.62)	3M1402-ND	9.04	71.76	214-3339-00-0602J
16	Gold	1.39 (35.31)	.60 (15.24)	.70 (17.78)	.300 (7.62)	3M1602-ND	17.12	135.90	216-3340-00-0602J
18	Gold	1.49 (37.85)	.60 (15.24)	.80 (20.32)	.300 (7.62)	3M1802-ND	17.80	141.30	218-3341-00-0602J
20	Gold	1.59 (40.39)	.60 (15.24)	.90 (22.86)	.300 (7.62)	3M2002-ND	18.48	146.60	220-3342-00-0602J
22	Gold	1.69 (42.93)	.70 (17.78)	1.00 (25.40)	.400 (10.16)	3M2202-ND	19.15	152.00	222-3343-00-0602J
24	Gold	1.79 (45.47)	.90 (22.86)	1.10 (27.94)	.600 (15.24)	3M2402-ND	17.04	135.30	224-1275-00-0602J
28	Gold	1.99 (50.55)	.90 (22.86)	1.30 (33.02)	.600 (15.24)	3M2802-ND	18.93	150.20	228-1277-00-0602J
40	Gold	2.60 (66.04)	.90 (22.86)	1.90 (48.26)	.600 (15.24)	3M4002-ND	24.51	194.50	240-1280-00-0602J
64	Gold	3.95 (100.33)	1.30 (33.02)	3.10 (78.74)	.900 (22.86)	3M6402-ND	36.20	287.30	264-4493-00-0602J
Econo ZIF Sockets									
16	Gold	1.10 (27.94)	.50 (12.70)	.700 (17.78)	.300 (7.62)	3M1603-ND	7.92	69.00	216-6278-00-3303
ZIP DIP Receptacle									
14	Gold	1.00 (25.40)	.60 (15.24)	1.28 (32.51)	.300 (7.62)	3M1401-ND	15.45	116.90	214-3339-09-0602J
16	Gold	.96 (24.38)	.56 (14.22)	1.37 (34.80)	.300 (7.62)	3M1601-ND	16.11	121.90	216-3340-09-0602J
18	Gold	.95 (24.13)	.55 (13.97)	1.49 (37.85)	.300 (7.62)	3M1801-ND	16.86	127.60	218-3341-09-0602J
20	Gold	1.00 (25.40)	.60 (15.24)	1.58 (40.13)	.300 (7.62)	3M2001-ND	17.52	132.50	220-3342-09-0602J
22	Gold	1.06 (26.92)	.65 (16.51)	1.69 (42.93)	.400 (10.16)	3M2201-ND	18.18	137.50	222-3343-09-0602J
24	Gold	1.26 (32.00)	.86 (21.84)	1.77 (44.96)	.603 (15.32)	3M2401-ND	16.20	122.60	224-1275-09-0602J
28	Gold	1.26 (32.00)	.86 (21.84)	1.98 (50.29)	.600 (15.24)	3M2801-ND	17.99	136.10	228-1277-09-0602J
40	Gold	1.27 (32.26)	.86 (21.84)	2.58 (65.53)	.606 (15.39)	3M4001-ND	22.42	169.60	240-1280-09-0602J
64	Gold	1.70 (43.18)	1.30 (33.02)	3.95 (100.33)	.900 (22.86)	3M6401-ND	35.89	271.50	264-4493-09-0602J
Universal ZIP DIP Socket									
24	Gold	1.77 (44.96)	—	1.10 (27.94)	—	3M2406-ND	23.75	188.50	224-1286-00-0602J
28	Gold	1.99 (50.55)	—	1.30 (33.02)	—	3M2806-ND	26.85	213.10	228-1371-00-0602J
40	Gold	2.59 (65.79)	—	1.90 (48.26)	—	3M4006-ND	19.28	153.01	240-1288-00-0602J

OEM Type "A" LCC Sockets

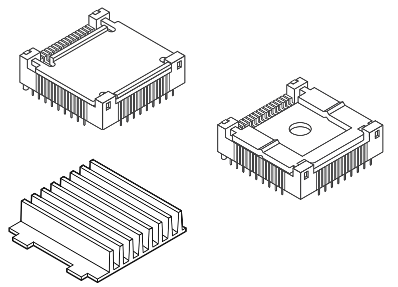

Features: • Accepts JEDEC leadless type "A" ceramic chip carriers • Variety of lid options available • "U" lid for I.C.E. adapter I/O cable egress • Heat Sink(s) acceptable and available • Thruster spring helps register substrate three corner notches, maintain centering • Polarizing post on bottom of socket • Through hole contact tails • No tools required for package insertion/removal • Full contact probe-ability • High temperature PPS plastic and BeCu contacts for rugged performance

Physical Specifications: • Insulation: • Material: Glass Filled Polyphenylene Sulfide (PPS) • Flammability: UL94V-0 • Color: Black • **Lid Material:** Aluminum • **Latch Material:** Stainless Steel • **Thruster & Contact Material:** Beryllium Copper (C172) Plating; Underplate: 50µ" (1.27µm) Nickel; Wiping Area: 30µ" (0.76µm) Gold; Solder Tails: 30µ" (0.76µm) Gold • **Marking:** Raised Letters

Electrical Specifications: • Current Rating: 1 Amp • Insulation Resistance: >1x10^{12}Ω • Withstanding Voltage: 1000 Vrms at Sea Level

Environmental Specifications: • Operating Temperature Rating: -55° ~ 105°C

Lid Type	No./ Cont.	Digi-Key Part No.	Pricing 1	10	3M Part No.
LCC Sockets					
Full	68	3M6809A-ND	16.15	140.70	268-5401-00-1102JH
No Lid	68	3M6809B-ND	16.15	140.70	268-5401-11-1102JH
U-Shaped	68	3M6809C-ND	16.27	141.70	268-5401-50-1102JH
Finned Heat Sink	68	3M6809D-ND	19.17	167.00	268-5401-52-1102JH
LCC Socket Lid					
Full	—	3MLLSF-ND	.91	7.90	268-5401-00-0000
U-Shaped	—	3MLLSU-ND	1.03	9.00	268-5401-50-0000
Finned Heat Sink	—	3MLLSH-ND	3.45	30.00	268-5401-52-0000

IC Test Clips

• Simplifies prototype and production testing, field service work, and Quality Control. • One-piece body for each DIP size. TC-14 fits 14-pin DIP, etc. • High reliability Gold contacts. • Proven 770 Alloy contacts.

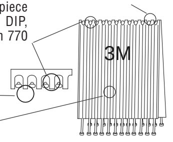

"Open-nose" design permits probe tip access at DIP leads.

"Contact comb" fits between DIP leads – eliminating any possibilities of shorts.

"Duck-bill" contacts are flat – won't roll off new narrow DIP leads.

Rugged, engineering-grade thermoplastic body molded around contact pins

No. of Pins	Row to Row (Inch)	Nail-Head Leads Digi-Key Part No.	Price Each	Headless Leads Digi-Key Part No.	Price Each
Alloy 770					
8	.3	923695-ND	9.79	923690-08-ND	9.79
14	.3	923698-ND	9.85	923690-14-ND	10.04
16	.3	923700-ND	9.95	923690-16-ND	10.14
16	.5/.6	923702-ND	16.54	—	—
18	.3	923703-ND	13.99	923690-18-ND	13.99
20	.3	923704-ND	14.64	923690-20-ND	14.64
22	.5/.6	923705-ND	18.15	—	—
24	.5/.6	923714-ND	19.05	923690-24-ND	19.05
24	.3	—	—	923689-24-ND	19.05
28	.5/.6	923718-ND	22.85	923690-28-ND	22.85
28	.3	923717-ND	22.85	923689-28-ND	22.85
36	.5/.6	923720-ND	25.37	923690-36-ND	25.37
40	.5/.6	923722-ND	26.62	923690-40-ND	26.62
64	.9	923726-ND	40.56	—	—
Gold Plated					
8	.3	923743-08-ND	11.87	923739-08-ND	11.87
14	.3	923743-14-ND	12.19	923739-14-ND	12.19
16	.3	923743-16-ND	12.50	923739-16-ND	12.50
18	.3	923743-18-ND	16.90	923739-18-ND	17.57
20	.3	923743-20-ND	21.67	923739-20-ND	20.17
24	.5/.6	923743-24-ND	23.22	923739-24-ND	23.89
24	.3	923742-24-ND	23.22	923738-24-ND	23.22
28	.5/.6	923743-28-ND	27.91	923739-28-ND	30.84
28	.3	923742-28-ND	27.91	923738-28-ND	27.91
40	.5/.6	923743-40-ND	32.72	923739-40-ND	32.72
48	.5/.6	—	—	923739-48-ND	43.81
64	.9	—	—	923739-64-ND	50.13

Surface Mount Test Clips

by 3M Electronic Specialty Products

Features: • Allow safe, convenient, fast and easy testing of normally hard-to-access. Small Outline Integrated Circuits (SOICs) • Eight sizes available for .30" (7.62mm) and .15" (3.81mm) package sizes • Helical compression springs and insulating contact combs ensure contact integrity during testing • Permits devices stacked as close as .0505" (1.28mm) end-to-end to be tested simultaneously • Standard .025" (.64mm) square contacts on .10" (2.54mm) centers at the probe end of the clip easily accept test probes or single row female socket connectors • Steel hinge pin and glass filled polyester body provide long service life • Available with alloy 764 unplated and gold plated leads- • Allows safe, convenient testing of Plastic Leaded Chip Carrier (PLCC) style ICs • All four sides of test clip open simultaneously for fast and easy attachment to PLCC being tested • Stays securely clamped to PLCC until removed • Helical compression springs and insulating contact combs ensure contact integrity during testing • Permits testing of ICs with as little as .200" (5.08mm) row to row spacing between devices • Staggered contact rows on .100" (2.54mm) centers • Industry standard .025" (.64mm) square contact pins on the .100" (2.54mm) centers • Available with alloy 764 leads and gold plated leads.

No. of Pins	Description	Narrow Digi-Key Part No.	Price Each	Wide Digi-Key Part No.	Price Each
		.150" SOIC		***.300" SOIC***	
8	Alloy 764	923650-08-ND	10.90	—	—
14	Alloy 764	923650-14-ND	11.04	—	—
16	Alloy 764	923650-16-ND	11.35	923660-16-ND	11.49
18	Alloy 764	—	—	923660-18-ND	12.15
20	Alloy 764	—	—	923660-20-ND	13.34
24	Alloy 764	—	—	923660-24-ND	13.77
28	Alloy 764	—	—	923660-28-ND	14.75
8	Gold Plated	923655-08-ND	11.35	—	—
14	Gold Plated	923655-14-ND	12.57	—	—
16	Gold Plated	923655-16-ND	12.45	923665-16-ND	13.19
18	Gold Plated	—	—	923665-18-ND	13.29
20	Gold Plated	—	—	923665-20-ND	13.75
24	Gold Plated	—	—	923665-24-ND	15.17
28	Gold Plated	—	—	923665-28-ND	16.29

No. of Pins	Description	PLCC Digi-Key Part No.	Price Each
PLCC			
20	Alloy 764	923670-20-ND	30.24
28	Alloy 764	923670-28-ND	32.07
44	Alloy 764	923670-44-ND	40.69
68	Alloy 764	923670-68-ND	55.01
20	Gold Plated	923675-20-ND	33.34
28	Gold Plated	923675-28-ND	39.46
44	Gold Plated	923675-44-ND	43.63
68	Gold Plated	923675-68-ND	51.39
84	Gold Plated	923675-84-I-ND	55.36

NEW! PLCC Chip Carrier Sockets

Features:

• Accepts chip carriers conforming to JEDEC outline MO-047 for square and MO-052 for rectangular • High temperature insulator compatible with IR reflow and wave soldering • Compatible with automated loading equipment • Open top design allows unrestricted air flow • Molded slots for ease of device extraction.

Physical Specifications:

• **Insulation:** • Material: Glass Filled Polyphenylene Sulfide (PPS) • Flammability: UL 94V-0 • Color: Brown • **Contact Material:** Phosphor Bronze • **Plating:** Underplating: 50µ" (1.27µm) Nickel - Overall; Wiping Area: 160µ" (4.06µm) Matte Tin

Fig. 1 — Thru-Hole Mount

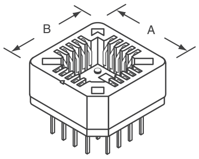

Fig. 2 — Surface Mount

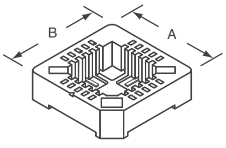

No. of Pins	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
Fig. 1 — Low Profile, 4 Row, PLCC Thru-Hole Mount							
20	0.611 (15.50)	0.611 (15.50)	3M2011B1-ND	.81	.71	.57	8420-11B1-RK-TP
28	0.711 (18.05)	0.711 (18.05)	3M2811B1-ND	.93	.81	.66	8428-11B1-RK-TP
32	0.711 (18.05)	0.812 (20.60)	3M3211B1-ND	.99	.86	.70	8432-11B1-RK-TP
44	0.926 (23.50)	0.926 (23.50)	3M4411B1-ND	1.17	1.02	.82	8444-11B1-RK-TP
52	1.020 (25.88)	1.020 (25.88)	3M5211B1-ND	1.29	1.12	.91	8452-11B1-RK-TP
68	1.223 (31.05)	1.223 (31.05)	3M6811B1-ND	1.59	1.38	1.12	8468-11B1-RK-TP
84	1.420 (36.05)	1.420 (36.05)	3M8411B1-ND	1.86	1.62	1.31	8484-11B1-RK-TP
Fig. 2 — 4 Row, PLCC Surface Mount							
20	0.617 (15.65)	0.617 (15.65)	3M2021B1-ND	.84	.73	.59	8420-21B1-RK-TP
28	0.716 (18.18)	0.716 (18.18)	3M2821B1-ND	.87	.76	.61	8428-21B1-RK-TP
32	0.716 (18.18)	0.818 (20.75)	3M3221B1-ND	.96	.84	.68	8432-21B1-RK-TP
44	0.917 (23.28)	0.917 (23.28)	3M4421B1-ND	1.14	.99	.80	8444-21B1-RK-TP
52	1.018 (25.84)	1.018 (25.84)	3M5221B1-ND	1.26	1.10	.89	8452-21B1-RK-TP
68	1.219 (30.95)	1.219 (30.95)	3M6821B1-ND	1.53	1.33	1.08	8468-21B1-RK-TP
84	1.418 (36.00)	1.418 (36.00)	3M8421B1-ND	1.65	1.43	1.16	8484-21B1-RK-TP

No. of Pins	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	3M Part No.
Fig. 2 — 4 Row, PLCC Surface Mount with Location Post							
20	0.617 (15.65)	0.617 (15.65)	3M2021A1-ND	.84	.73	.59	8420-21A1-RK-TP
28	0.716 (18.18)	0.716 (18.18)	3M2821A1-ND	.87	.76	.61	8428-21A1-RK-TP
32	0.716 (18.18)	0.818 (20.75)	3M3221A1-ND	.96	.84	.68	8432-21A1-RK-TP
44	0.917 (23.28)	0.917 (23.28)	3M4421A1-ND	1.14	.99	.80	8444-21A1-RK-TP
52	1.018 (25.84)	1.018 (25.84)	3M5221A1-ND	1.26	1.10	.89	8452-21A1-RK-TP
68	1.219 (30.95)	1.219 (30.95)	3M6821A1-ND	1.53	1.33	1.08	8468-21A1-RK-TP
84	1.418 (36.00)	1.418 (36.00)	3M8421A1-ND	1.65	1.43	1.16	8484-21A1-RK-TP

No. of Pins	Dimensions - Inch (mm) A	B	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel* Size	Pricing	3M Part No.
Fig. 2 — 4 Row, PLCC Surface Mount									
20	0.617 (15.65)	0.617 (15.65)	3M2021B1CT-ND	1.08	.94	.76	500	324.00	8420-21B1-RK-TR
28	0.716 (18.18)	0.716 (18.18)	3M2821B1CT-ND	1.08	.94	.76	400	259.20	8428-21B1-RK-TR
32	0.716 (18.18)	0.818 (20.75)	3M3221B1CT-ND	1.14	.99	.80	450	307.80	8432-21B1-RK-TR
44	0.917 (23.28)	0.917 (23.28)	3M4421B1CT-ND	1.38	1.20	.97	360	298.08	8444-21B1-RK-TR
52	1.018 (25.84)	1.018 (25.84)	3M5221B1CT-ND	1.56	1.36	1.10	360	336.96	8452-21B1-RK-TR
68	1.219 (30.95)	1.219 (30.95)	3M6821B1CT-ND	1.86	1.62	1.31	280	312.48	8468-21B1-RK-TR

* For Tape and Reel Part No., change CT-ND to TR-ND.

ANALOG DEVICES

IF Transceivers

Description	Digi-Key Part No.	Price Each		
		1	25	100
ISM Band Low Power, Zero-IF RF Transceiver IC	ADF7025BCPZ-ND◊ ***NEW!***	5.15	4.13	3.21
Evaluation Board for ADF7025	EVAL-ADF7025DB1-ND ***NEW!***	64.50/1		

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ISM-Band Transmitters

Modulation Mode	Output Freq. Rate	Data Rate (Max.)	Programmable Output Pwr.	+10dBm Power Consumption	Package	Digi-Key Part No.	Price Each		
							1	25	100
FSK/ASK/ GFSK	433-435MHz, 866-870MHz	76 kpbs	-20dBm +10dBm	30mA	24-TSSOP	ADF7011BRU-ND	3.11	2.49	1.94

RMS Detectors

Volt. Supp. (V)	Supply Current (mA)	RF Freq. (MHz)	Dynamic Range	Accuracy (dB)	Response Time	Package	Digi-Key Part No.	Price Each		
								1	25	100
2.7-5.5	1.1	2500	30dB	0.25	320ns	8-MSOP	AD8361ARMZ-ND◊ ***NEW!***	7.90	6.32	5.34
						SOT-23-6	AD8361ART-REEL7CT-ND	7.50	6.00	5.07
						SOT-23-6	AD8361ART-REEL7TR-ND	13950.00/3,000		
						SOT-23-6	AD8361ARTZ-RL7CT-ND◊ ***NEW!***	7.50	6.00	5.07
						SOT-23-6	AD8361ARTZ-RL7TR-ND◊ ***NEW!***	13950.00/3,000		
4.5-5.5	20	2700	60dB	0.5	45ns	16TSSOP	AD8362ARU-ND	12.50	11.25	9.98
							AD8362ARUZ-ND◊	12.50	11.25	9.98
Evaluation Board for AD8361							AD8361-EVAL-ND	112.50/1		
Evaluation Board for AD8362							AD8362-EVAL-ND	111.38/1		

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Gain Blocks

Freq. Range (MHz)	Gain (dB)	Output IP3 (dBm)	Noise Fig. (dB)	Supply Voltage (V)	Supply Current	Pkg.	Digi-Key Part No.	Price Each		
								1	25	100
1-2700	20	23.6	5.3	5	52	8-LFCSP	AD8353ACP-R2CT-ND	1.45	1.16	.87
							AD8353ACP-R2TR-ND	203.00/250		
1-2700	20	19	4.2	5	31	8-LFCSP	AD8354ACP-R2CT-ND	1.45	1.16	.87
							AD8354ACP-R2TR-ND	203.00/250		

Log Amp and Detector

RF Freq. (MHz)	Dynamic Range (dB)	Accuracy (dB)	Response Time (ns Typ.)	Supply Voltage (V)	Supply Current	Package	Digi-Key Part No.	Price Each		
								1	25	100
2,700	60	±0.2	60	2.7-5.5	19	14-TSSOP	AD8302ARUZ-ND◊ ***NEW!***	22.50	21.00	19.50
100-2700	45	±.5	70	2.7-5.5	4.5	8-MSOP	AD8314ARMZ-ND◊ ***NEW!***	9.48	7.59	6.40
							AD8314ARM-REEL7CT-ND	9.48	7.59	6.40
							AD8314ARM-REEL7TR-ND	5925.00/1,000		
Evaluation Board forAD8314..................................							AD8314-EVAL-ND	111.38/1		

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Mod/Demod

Mod/ Demod	RF Freq. (MHz)	IQ Freq. (MHz)	Amplitude Error	Noise Floor (dBm/Hz)	Voltage Supply (V)	Package	Digi-Key Part No.	Price Each		
								1	25	100
Demod	dc - 50	—	0.05dB	-166	—	32-LFCSP	AD8333ACPZ-WP-ND◊ ***NEW!***	15.44	14.41	13.38
Mod	250-1000	80	0.2dB	-155	2.7-5.5	16-TSSOP	AD8345ARE-NDa	8.68	7.82	6.93
							AD8345AREZ-ND◊ ***NEW!***	8.68	7.82	6.93
Mod	800-2500	70	0.2dB	-147	2.7-5.5	16-TSSOP	AD8346ARUZ-ND◊ ***NEW!***	9.24	7.40	6.24
Demod	800-2700	65	0.3dB	—	2.7-5.5	28-TSSOP	AD8347ARU-ND	10.41	9.38	8.32
							AD8347ARUZ-ND◊ ***NEW!***	10.41	9.38	8.32
Demod	50-1000	75	0.25dB	—	2.7-5.5	28-TSSOP	AD8348ARU-ND	9.15	8.24	7.31
							AD8348ARUZ-ND◊ ***NEW!***	9.15	8.24	7.31
Mod	700-2700	160	0.1dB	-156	5	16-TSSOP	AD8349ARE-ND	8.68	7.82	6.93
							AD8349AREZ-ND◊ ***NEW!***	8.68	7.82	6.93
Evaluation for Dual IQ Demod							AD8333-EVAL-ND	194.93/1		
Evaluation Board for AD8348							AD8348-EVAL-ND	118.80/1		
Evaluation Board for AD8349							AD8349-EVAL-ND	118.80/1		

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Clock Distribution

Primary Clock Function	On-Chip Multiplier	Voltage Supply (V)	Number of Output	Package	Digi-Key Part No.	Price Each		
						1	25	100
Generation	PLL Core	+1.8	1	48-LFCSP	AD9540BCPZ-ND◊	17.55	16.38	15.21

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RX TX Subsystems

Function	Channal Bandwidth (MHz)	IF or RF Range (MHz)	Key Features	Primary Application	Pkg.	Digi-Key Part No.	Price Each		
							1	25	100
IF to Bits RX Subsystem	3.5	70-300	IF toBband Rx for GSM/Edge	Wireless Infrastructure	121-BGA	AD6650BBC-ND	30.96	28.90	26.84
Evaluation Board for AD6650 with software...........................						AD6650/PCB-ND	650.00/1		

Res. (Bits)	Thruput Rate kSPS	Number of ADC Inputs	Supply V	Interface	Package	Digi-Key Part No.	Price Each		
							1	25	100
24	375	1	Single (+3) Single (+3.3)	Ser., SPI	48-LFCSP	AD9864BCPZ-ND◊	15.11	14.10	13.10

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Mixers/Multipliers

RF Frequency (MHz)	IF Frequency (MHz)	LO Frequency MHz	Conversion Gain	Package	Digi-Key Part No.	Price Each		
						1	25	100
dc ~ 2,500	dc ~ 2,500	dc ~ 2,500	7	14-TSSOP	AD8343ARU-ND	8.72	6.98	5.89
				14-TSSOP	AD8343ARUZ-ND◊	8.72	6.98	5.89
400	200	400	—	20-PLCC	AD831APZ-ND◊	11.61	10.46	9.28
				20-PLCC	AD831AP-REEL7TR-ND	2221.75/250		
500	400KHz ~ 12MHz	500	—	20-SSOP	AD607ARSZ-ND◊	7.30	5.84	4.93
500	—	500	24	16-SOIC	AD608AR-ND	5.33	4.27	3.32

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PLL Synthesizers and VCOs

RF Input Max. (MHz)	Output Freq. Range (MHz)	Norm. Phase Noise (dBc/Hz)	Max. REFin (MHz)	RF Pre-scalers	Supply Current	Package	Digi-Key Part No.	Price Each		
								1	25	100
Single Integer-N										
200 MHz	—	-214	104	N/A	4.5	20-LFCSP	ADF4001BCP-ND	4.50	3.60	2.80
						16-TSSOP	ADF4001BRU-ND	4.50	3.60	2.80
						16-TSSOP	ADF4001BRUZ-ND◊	4.50	3.60	2.80
6.0 GHz	—	-219	300	16/17 32/33, 64/65, 8/9	13	16-TSSOP	ADF4106BRUZ-ND◊ ***NEW!***	5.00	4.00	3.38
7.0 GHz	—	-219	250	16/17 32/33, 64/65, 8/9	13	16-TSSOP	ADF4107BRUZ-ND◊ ***NEW!***	6.20	4.96	4.19
550 MHz	—	-215	104	16/17, 32/33, 64/65, 8/9	4.5	20-LFCSP	ADF4110BCP-ND	4.56	3.65	3.08
						16-TSSOP	ADF4110BRU-ND	5.13	4.11	3.20
						16-TSSOP	ADF4110BRUZ-ND◊ ***NEW!***	5.13	4.11	3.20
						16-TSSOP	ADF4110BRUREEL7CT-ND	5.08	4.07	3.43
						16-TSSOP	ADF4110BRUREEL7TR-ND	2850.00/1,000		
1.2 GHz	—	-215	104	16/17, 32/33, 64/65, 8/9	4.5	16-TSSOP	ADF4111BRU-ND	4.56	3.65	3.08
3.0 GHz	—	-215	104	16/17, 32/33, 64/65, 8/9	6.5	16-TSSOP	ADF4112BRU-ND	5.13	4.11	3.20
							ADF4112BRUZ-ND◊ ***NEW!***	5.13	4.11	3.20
4.0 GHz	—	-215	104	16/17, 32/33, 64/65, 8/9	8.5	20-LFCSP	ADF4113BCP-ND	5.30	4.24	3.58
						16-TSSOP	ADF4113BRU-ND	5.30	4.24	3.58
						16-TSSOP	ADF4113BRUZ-ND◊	5.30	4.24	3.58
						16-TSSOP	ADF4113BRUREEL7CT-ND	6.40	5.12	4.32
						16-TSSOP	ADF4113BRUREEL7TR-ND	3313.00/1,000		
						16-TSSOP	ADF4113BRUZ-REEL7TR-ND◊	3313.00/1,000		
550 MHz	—	-211	100	9-Aug	4.5	16-TSSOP	ADF4116BRU-ND	5.13	4.11	3.20
							ADF4116BRUZ-ND◊	5.13	4.11	3.20
3.0 GHz	—	-216	100	32/33	6.5	16-TSSOP	ADF4118BRU-ND	5.13	4.11	3.20
							ADF4118BRUZ-ND◊	5.13	4.11	3.20
4.0 GHz	—	-213	250	4/5, 8/9	12	20-LFCSP	ADF4153BCPZ-ND◊ ***NEW!***	5.30	4.24	3.58
						16-TSSOP	ADF4153BRUZ-ND◊	5.30	4.24	3.58
4.0 GHz	—	-213	250	4/5, 8/9	12	16-TSSOP	ADF4154BRUZ-ND◊	5.30	4.24	3.58
Evaluation Board for ADF4113..................................							EVAL-ADF4113EB1-ND	193.50/1		
Dual Integer-N										
2.4 GHz	—	-215	115	16/17, 32/33, 64/65, 8/9	6	20-TSSOP	ADF4212LBRU-ND	5.51	4.41	3.43
3.0 GHz	—	-216	110	32/33, 64/65	7	20-TSSOP	ADF4218LBRU-ND	5.08	4.07	3.43
Dual Fractional-N										
3.0 GHz	—	-214	150	4/5, 8/9	12	24-LFCSP	ADF4252BCP-ND	7.75	6.20	4.96
							ADF4252BCPZ-ND◊ ***NEW!***	6.20	4.96	4.19
Synthesizer/VCO Integer-N										
—	2400-2725	-214	250	16/17, 32/33, 8/9	—	24-LFCSP	ADF4360-0BCP-ND	7.20	5.76	4.86
							ADF4360-0BCPZ-ND◊ ***NEW!***	7.20	5.76	4.86
—	1850-2150	-217	250	16/17, 32/33, 8/9	—	24-LFCSP	ADF4360-2BCP-ND	7.20	5.76	4.86
							ADF4360-2BCPZ-ND◊	7.20	5.76	4.86
—	1450-1750	-217	250	16/17, 32/33, 8/9	—	24-LFCSP	ADF4360-4BCP-ND	7.20	5.76	4.86
							ADF4360-4BCPZ-ND◊	7.20	5.76	4.86
—	350-1800	-217	250	16/17, 8/9	—	24-LFCSP	ADF4360-7BCP-ND	7.74	7.20	6.30
							ADF4360-7BCPZ-ND◊ ***NEW!***	7.20	5.76	4.86
Evaluation Board for ADF4360-0................................							EVAL-ADF4360-0EB1-ND	160.00/1		
Evaluation Board for ADF4360-1................................							EVAL-ADF4360-1EB1-ND	159.60/1		
Evaluation Board for ADF4360-4................................							EVAL-ADF4360-4EB1-ND	159.60/1		
Evaluation Board for ADF4360-5................................							EVAL-ADF4360-5EB1-ND	159.60/1		
Evaluation Board for ADF4360-7................................							EVAL-ADF4360-7EB1-ND	159.60/1		

Input Freq. Max. (MHz)	V	TTL Logic High (Min)	ECL Logic High	Package	Digi-Key Part No.	Price Each		
						1	25	100
Phase/Frequency Discriminator								
200	+5	2V	300mV	20PLCCa	AD9901KPZ-ND◊	7.70	6.16	5.20

◊ ***RoHS Compliant***

ANALOG DEVICES

DDC's

MSPS	GSM, EDGE/GPRS	CDMA2000		UMTS	TDS-CDMA	Package	Digi-Key Part No.	Price Each		
		1x	3x					1	25	100
65	1 Ch.	1 Ch. – 2 Samples per Chip	1 Ch. with FPGA/ 2 Samples per Chip	1 Ch. with FPGA 2 Samples per Chip	1 Ch.	80-PQFP	AD6620AS-ND AD6620ASZ-ND	25.80 25.80	24.08 24.08	22.36 22.36
80	4 Ch. – 2 Samples per Symbol	2 Ch. – 4 Samples per Chip	2 Ch. – 4 Samples per Chip	2 Ch. – 4 Samples per Chip	4 Ch. – 1 Sample per Chip	196-CSPBGA	AD6634BBC-ND	49.02	45.76	42.49
80	8 Ch. – 2 Samples per Symbol	4 Ch. – 4 Samples per Chip	4 Ch. – 4 Samples per Chip	4 Ch. – 4 Samples per Chip	8 Ch. – 1 Sample per Chip	324-PBGA	AD6635BB-ND	56.76	52.98	49.20
150	6 Ch. – 4/8 Samples per Symbol	6 Ch. – 4 Samples per Chip	6 Ch. – 4 Samples per Chip	6 Ch. – 4 Samples per Chip	6 Ch. – 1/2/4 Samples per Chip	256-CSPBGA	AD6636BBCZ-ND AD6636CBCZ-ND	66.77 44.51	62.32 41.54	57.87 38.58
Evaluation Board for AD6636-ND							AD6636BC/PCB-ND		650.00/1	

DDS's

Master fclk	Reso-lution (Bits)	Tuning Word Width (Bits)	Nominal Supply (V)	I Supply Total (Max.)	FS Lout (mA Nom.)	Compliance Range (V)	REFCLK Multiplier	On-Board Comp-arator	I/O Interface	Package	Digi-Key Part No.	Price Each 1	25	100
25 MHz	10	32	Single (+3.3), Single (+3.6), Single (+5)	15mA	4	1.5	No	No	Parallel	48-LQFP	AD9831AST-ND AD9831ASTZ-ND* ***NEW!***	12.25 12.25	11.03 11.03	9.78 9.78
25MHz	10	32	Single (+3.3), Single (+3.6), Single (+5)	15mA	4	1.35	No	No	Serial	16-TSSOP	AD9832BRU-ND AD9832BRUZ-ND*	9.80 9.80	8.82 8.82	7.83 7.83
50 MHz	10	32	Single (+5)	60mA	20	1	No	No	Parallel	48-TQFP	AD9830AST-ND AD9830ASTZ-ND*	17.55 17.55	16.38 16.38	15.21 15.21
50 MHz	10	28	Single (+2.3 to +5.5), Single (+2.5), Single (+2.7), Single (+3), Single (+3.3), Single (3.6), Single (+5)	8mA	3	0.8	No	Yes	Serial	20-TSSOP	AD9834BRU-ND AD9834BRUZ-ND*	9.70 9.70	8.73 8.73	7.75 7.75
50 MHz	10	32	Single (+5)	40mA	4	1.35	No	No	Serial	16-TSSOP	AD9835BRU-ND AD9835BRUZ-ND*	11.28 11.28	10.16 10.16	9.01 9.01
125 MHz	10	32	Single (+3.3), Single (+5)	96mA	20	1.5	No	Yes	Parallel, Serial	28-SSOP	AD9850BRS-ND AD9850BRSZ-ND* ***NEW!***	21.83 21.83	20.37 20.37	18.92 18.92
180 MHz	10	32	Single (+3), Single (+3.3), Single (+3.6), Single (+5)	130mA	20	1.5	Yes	Yes	Parallel, Serial	28-SSOP	AD9851BRS-ND AD9851BRSZ-ND*	23.93 23.93	22.33 22.33	20.74 20.74
300 MHz	12	48	Single (+3.3)	922mA	20	1	Yes	Yes	Parallel, Serial	80-LQFP	AD9852ASQ-ND AD9852ASTZ-ND* ***NEW!***	37.50 26.93	35.00 25.13	32.50 23.34
300 MHz	12	48	Single (+3.3)	1210mA	10	1	Yes	Yes	Parallel, Serial	80-LQFP	AD9854ASQ-ND AD9854ASTZ-ND* ***NEW!***	42.00 29.18	39.20 27.23	36.40 25.29
400 MHz	10	32	Multi(+1.8,+3.3)	N/A	20	2.05	Yes	No	Serial	48-TQFP	AD9859YSVZ-ND* ***NEW!***	17.21	16.06	14.92
400 MHz	14	32	Multi (+1.8,+3.3), Single (+1.8)	N/A	10	2.05	Yes	Yes	Serial	48-TQFP	AD9952YSVZ-ND*	27.35	25.53	23.70
400 MHz	14	32	Multi (+1.8,+3.3), Single (+1.8)	N/A	10	2.05	Yes	No	Serial	48-TQFP	AD9953YSV-ND AD9953YSVZ-ND*	26.03 26.03	24.29 24.29	22.56 22.56
400 MHz	14	32	Multi (+1.8,+3.3), Single(+1.8)	N/A	10	2.05	Yes	Yes	Serial	48-TQFP	AD9954YSVZ-ND* ***NEW!***	30.44	28.41	26.38
500 MHz	10	32	Multi (+1.85,+3.3)	105mA	10	2.3	Yes	—	Serial	56-LFCSP	AD9958BCPZ-ND* ***NEW!***	35.70	33.32	30.94
500 MHz	10	32	Multi (+1.8,+3.3)	180mA	10	2.3	Yes	—	Serial	56-LFCSP	AD9959BCPZ-ND* ***NEW!***	65.52	61.16	56.79
1.0 GHz	10	32	Multi(+3.3,+5)	N/A	40	3.8	No	No	Parallel, Serial	100-TQFP	AD9858BSVZ-ND* ***NEW!***	79.64	74.33	69.02
Evaluation Board for AD950/FS											AD9850/FSPCB-ND		281.25/1	
Evaluation Board for AD9956											AD9956/PCB-ND		322.50/1	
Evaluation Board for AD9958											AD9958/PCB-ND ***NEW!***		281.25/1	
Evaluation Board for AD9959											AD9959/PCB-ND ***NEW!***		281.25/1	
Evaluation Board for AD9958											AD9858/PCB-ND		393.75/1	

***** RoHS Compliant***

ATMEL

RFID Demo Kit

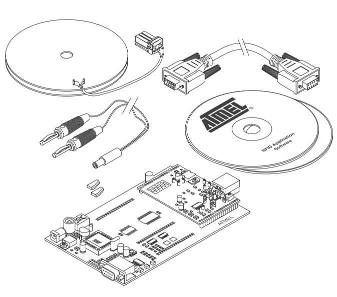

The RFID application kit (order number: TMEB8704) is designed to present the key features of various RFID products from Atmel Wireless and Microcontrollers. The included software version IDS 5 supports the following products: • U2270B on the reader side • TK5530/e5530 on the transponder side • 5551/T5557 on the transponder side • TK5552 on the transponder side • TK5561/e5561 on the transponder side • U9280M on the transponder side **Kit Includes:** • Base Station Coil • Serial Cable • Demo Board • Sample Transponders

Description	EPROM (Bytes)	Digi-Key Part No.	Price Each 1	25	100
125KHz	1K	TK5552A-PP-ND*	2.49	2.09	1.74
125KHz	224	TK5551M-PP-ND*	3.44	2.88	2.40
125KHz	3128	TK5530HM-232-PP-ND†	2.21	1.86	1.55
RFID Application Kit		TMEB8704-ND	591.25	—	—

* Read/Write † Read only

Smart RF Devices

		Digi-Key		Price Each		Tape & Reel‡	
Description	**Package**	**Part No.**	**1**	**25**	**100**	**Size**	**Pricing**
UHF ASK/FSK Transmitter, 2.0V ~ 4.0V, 868MHz ~ 928MHz	8-TSSOP	T5750-6AQCT-ND†	2.11	1.77	1.47	—	—
UHF ASK/FSK Transmitter, 2.0V ~ 4.0V, 310MHz ~ 330MHz	8-TSSOP	T5753-6APCT-ND†	2.02	1.70	1.41	500	841.00
UHF ASK/FSK Transmitter, 2.0V ~ 4.0V, 429MHz ~ 439MHz	8-TSSOP	T5754-6AQCT-ND†	2.11	1.77	1.47	—	—
UHF ASK/FSK Transmitter, 2.0V ~ 5.5V, 300MHz ~ 450MHz	16-SSOP	U2741B-NFB-ND	2.39	2.00	1.67	—	—
UHF ASK Transmitter, 2.2V ~ 4.0V, 310MHz ~ 440MHz	16-SSOP	U2745B-MFB-ND	1.61	1.35	1.13	—	—
Wideband Transceiver ICs, 314 ~ 316MHz	48-QFN	ATA5423-PLQWCT-ND†	6.45	5.40	4.50	4,000	3524.00/M
Wideband Transceiver ICs, 345MHz	48-QFN	ATA5425-PLQWCT-ND†	6.45	5.40	4.50	4,000	3524.00/M
Wideband Transceiver ICs, 433 ~ 435MHz, 868 ~ 870MHz	48-QFN	ATA5428-PLQWCT-ND†	6.45	5.40	4.50	4,000	3524.00/M
UHF ASK/FSK Transceiver, 433.92MHz, 868.3MHz	48-QFN	ATA5811-PLHCCT-ND†	8.79	7.37	6.14	4,000	5931.00/M
UHF ASK/FSK Transceiver, 315MHz	48-QFN	ATA5812-PLQCT-ND†	8.79	7.37	6.14	4,000	5931.00/M
Low IF ISM Transceiver, 2.4GHz	32-QFN	ATR2406-PNSG-ND	5.55	4.65	3.87	—	—
High Linearity SiGe Active Receiver Mixer, Transceivers for Base Stations, 5V, 800MHz ~ 1000MHz	16-TSSOP	T0780-6CPCT-ND†	12.31	10.31	8.59	1,000	8301.00
WDECT/ISM Single-Chip Transceiver, 3V ~ 4.6V, 2.5GHz with Integrated VCC	48-MLF	T2802-PLHCT-ND†	16.13	13.50	11.25	4,000	10875.00/M
WDECT/ISM Single-Chip Transceiver, 3V ~ 4.6V, 2.5GHz	48-MLF	T2803-PLHCT-ND†	16.13	13.50	11.25	—	—
UHF ASK Receiver, 4.5 ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	ATA3741P2-TGQYCT-ND† ***NEW!***	5.70	4.56	3.85	2,000	3563.00/M
UHF ASK Receiver, 4.5 ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	ATA3741P2-TGSY-ND ***NEW!***	5.70	4.56	3.85	—	—
UHF ASK Receiver, 4.5 ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	ATA3741P3-TGQYCT-ND† ***NEW!***	5.70	4.56	3.85	2,000	3563.00/M
UHF ASK Receiver, 4.5 ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	ATA3741P3-TGSY-ND ***NEW!***	5.70	4.56	3.85	—	—
UHF ASK/FSK Receiver, 4.5 ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	ATA3742P3-TGQYCT-ND†* ***NEW!***	5.96	4.77	4.03	2,000	3725.00/M
UHF ASK/FSK Receiver, 4.5 ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	ATA3742P3-TGSY-ND* ***NEW!***	5.96	4.77	4.03	—	—
UHF ASK/FSK Receiver, 4.5 ~ 5.5V, 310MHz ~ 440MHz	20-SOIC	ATA3745P3-TGQYCT-ND†* ***NEW!***	3.83	3.06	2.38	2,000	2168.00/M
UHF ASK/FSK Receiver, 4.5 ~ 5.5V, 310MHz ~ 440MHz	20-SOIC	ATA3745P3-TGSY-ND* ***NEW!***	3.83	3.06	2.38	—	—
SiGe IF Receiver/Demodulator, 65MHz ~ 300MHz	16-PSSOP	ATR0797-6CPCT-ND†	9.25	7.74	6.45	1,000	6235.00
SiGe IF Receiver/Demodulator, 65MHz ~ 300MHz	16-TSSOP	T0797-6CPCT-ND†	10.32	8.64	7.20	1,000	6960.00
Universal Usable RF Power Amplifier, 3.5V, 135MHz ~ 900MHz	28-PSSOP	T0905-TSPHCT-ND†	9.68	8.10	6.75	4,000	6525.00/M
Double-Balanced Mixer, 2.7V ~ 5.5V, 2.5GHz	8-SOIC	U2795B-MFP-ND	2.58	2.16	1.80	—	—
Single-Balanced Mixer, 2.7V ~ 5.5V, 2GHz	8-SOIC	U2796B-MFP-ND	5.45	4.57	3.81	—	—
Demo Kit for 868MHz Transceiver	—	ATAB5428-868H3-ND ***NEW!***			357.77/1		
Demo Kit for 915MHz Transceiver	—	ATAB5429-915H3-ND ***NEW!***			125.00/1		
Transmitter Design Board, 868.3MHz	—	ATAB5750-8-ND			163.75/1		
Transmitter Design Board, 915MHz	—	ATAB5750-9-ND			163.75/1		
Transmitter Design Board, 315MHz	—	ATAB5753-ND			163.75/1		
Transmitter Design Board, 433.92MHz	—	ATAB5754-ND			163.75/1		
RF Design Kit, 868.3MHz, with SAW Filter	—	ATAK5750-60-S-ND			493.75/1		
RF Design Kit, 868.3MHz	—	ATAK5750-60-N-ND			493.75/1		
RF Design Kit, 915MHz	—	ATAK5750-61-N-ND			493.75/1		
RF Module 868MHz for STK500	—	ATAKSTK511-8-ND ***NEW!***			401.66/1		
RF Module 915MHz for STK500	—	ATAKSTK511-9-ND ***NEW!***			401.66/1		
Design Kit T5754, 433.92MHz, 600kHz Bandwidth, with SAW Filter	—	ATAK5754-43P6-S-ND			493.75/1		
Development Board for ATR2406	—	ATR2406-DEV-BOARD-ND			259.35/1		
Development Board for ATR2406 / ATmega88	—	ATR2406-DEV-BOARD2-ND ***NEW!***			253.50/1		
Development Kit for ATR2406	—	ATR2406-DEV-KIT-ND			812.50/1		
Demo Kit for ATR2406 Utilizing the ATmega88	—	ATR2406-DEV-KIT2-ND ***NEW!***			432.25/1		
Daughter Board AT86RF211/915MHz	—	AT86RF211SDB915LT-ND			129.00/1		
Development Kit for AT86RF401U	—	AT86RF401U-EK1-ND			199.00/1		
Development Kit for ATA5744E (Europe)	—	ATAK4015744E-ND			465.50/1		
Development Kit for ATA5744U (USA)	—	ATAK4015744U-ND			467.23/1		
Development Kit for ATTINY13 and	—	ATAKSTK511-3-ND ***NEW!***			392.60/1		
FSK Transceiver for ISM Radio	—	AT86RF211SAH-ND			8.26/1		
Wireless Data Micro Transmitted	—	AT86RF401U-ND			3.96/1		
Wireless Data Micro Transmitted 433MHz	—	AT86RF401E-6GS-ND			3.14/1		
Wireless Data Micro Transmitted 315MHz	—	AT86RF401U-6GS-ND			3.14/1		
Wireless Data Micro Transmitted 265-456MHz	—	AT86RF401X-6GS-ND			3.14/1		

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape Price Each **** RoHS Compliant***

Automotive Control Devices

		Digi-Key		Price Each		Tape & Reel‡	
Description	**Package**	**Part No.**	**1**	**25**	**100**	**Size**	**Pricing**
125kHz Transmitter for TPM, 8.0V ~ 24.0V	20-QFN	ATA5275-PGPICT-ND† ***NEW!***	5.22	4.18	3.25	1,500	2958.00/M
125kHz Transmitter for TPM, 8.0V ~ 24.0V	20-QFN	ATA5275-PGQICT-ND† ***NEW!***	4.91	3.93	3.06	6,000	2725.00/M
Ultra Low Power 125kHz 3D Wake Up Receiver with RSSI	8-TSSOP	ATA5282-6APHCT-ND†* ***NEW!***	2.97	2.38	1.85	500	858.00
Ultra Low Power 125kHz 3D Wake Up Receiver with RSSI	8-TSSOP	ATA5282-6AQHCT-ND†* ***NEW!***	2.79	2.24	1.74	5,000	1550.00/M
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P3-TGQCT-ND†	5.81	4.86	4.05	2,000	3915.00/M
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P3-TGS-ND	5.81	4.86	4.05	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5743P6-TGQCT-ND†	5.81	4.86	4.05	2,000	3915.00/M
UHF ASK/FSK Receiver, 5V ~ 20V, 300MHz ~ 450MHz for ASK or FSK	20-SOIC	T5743P6-TGS-ND	5.81	4.86	4.05	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5744N-TGQCT-ND†	4.73	3.96	3.30	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	T5744N-TGS-ND	4.73	3.96	3.30	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SSOP	T5744N-TK-ND	4.52	3.78	3.15	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SSOP	T5744N-TKQCT-ND†	4.52	3.78	3.15	4,000	3045.00/M
UHF ASK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SSOP	T5744N-TKS-ND	4.52	3.78	3.15	—	—
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5760-TGQCT-ND†	5.55	4.65	3.87	2,000	3741.00/M
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5760-TGS-ND	5.55	4.65	3.87	—	—
UHF ASK/FSK Receiver, 868MHz ~ 870MHz, 902MHz ~ 928MHz	20-SOIC	T5761-TGQCT-ND†	5.55	4.65	3.87	2,000	3741.00/M
UHF ASK/FSK Receiver, 5V ~ 20V, 902MHz ~ 928MHz	20-SOIC	T5761-TGS-ND	5.55	4.65	3.87	—	—
UHF ASK Receiver IC, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3741BM-P2FL-ND	5.81	4.86	4.05	—	—
UHF ASK Receiver, 4.5V ~ 5.5V, 315MHz ~ 433.92MHz	20-SOIC	U3741BM-P3FLG3CT-ND†	5.81	4.86	4.05	2,000	3915.00/M
UHF ASK Receiver IC, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3741BM-P3FL-ND	5.81	4.05	3.38	—	—
UHF ASK/FSK Receiver, 4.5V ~ 5.5V, 300MHz ~ 450MHz	20-SOIC	U3742BM-P3FL-ND	6.08	5.10	4.25	—	—
Stand-Alone Antenna Driver	28-QFN	ATA5278-PKQICT-ND†* ***NEW!***	5.00	4.00	3.38	4,000	3100.00/M
Interface for 125kHz Wake-Up Function	8-TSSOP	ATA5283P-6APJCT-ND†* ***NEW!***	2.48	1.98	1.54	500	715.00
Interface for 125kHz Wake-Up Function	8-TSSOP	ATA5283P-6AQJCT-ND†* ***NEW!***	2.32	1.86	1.45	5,000	1288.00/M
Reference Design for T5744, 315MHz	—	ATAB5744-N3-ND			163.75/1		
Receiving Board for T5744, 433.92MHz, No SAW filter	—	ATAB5744-N4-ND			163.75/1		
Reference Design for T5744, 315MHz	—	ATAB5744-S3-ND			163.75/1		
Reference Design for T5744, 433MHz	—	ATAB5744-S4-ND			163.75/1		
Demo Kit for U3741BM/U2741B	—	TMEBX741D-ND			914.38/1		
Demo Kit for U3745BM/U2745B	—	TMEBX745B-ND			532.00/1		

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape Price Each **** RoHS Compliant***

Bluetooth Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100
Bluetooth™/ISM Front End IC, 3V, 2.4GHz	20-QFN	T7024-PGS-ND	3.66	3.06	2.55
Demo Board for T7024PGM	—	DEMOBOARD-T7024PGM-ND ***NEW!***		375.00/1	

Cellular/Infrastructure ICs Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel‡ Size	Pricing
Direct Quadrature Modulator, 5V, 800MHz ~ 2500MHz	16-TSSOP	T0790-6CPCT-ND†	22.01	18.43	15.36	1,000	14841.00
Quadrature Modulator, 5V, 1000MHz	16-SOIC	U2790B-MFP-ND	7.53	6.30	5.25	—	—
Quadrature Modulator, 5V, 300MHz	20-SSOP	U2793B-MFS-ND	5.38	4.50	3.75	—	—
Quadrature Modulator, 5V, 1000MHz	20-SSOP	U2794B-MFS-ND	7.61	6.38	5.31	—	—

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape Price Each

Wireless LAN Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100
WLAN Power Amplifier for 802.11a, 5GHz	16-QFN	ATR3515-PEPCT-ND	4.64	3.89	3.24
SiGe Power Amplifier for 802.11b/g WLAN Systems, 2.4GHz	16-QFN	T7031-PEPCT-ND	2.80	2.34	1.95

Cordless Phone ICs Devices

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel‡ Size	Pricing
ISM Front End IC, DECT, 2.4GHz	20-QFN	T7026-PGPCT-ND†	5.38	4.50	3.75	1,500	3625.00/M
Demo Board for ATR2806	—	DEMOBOARD-ATR2806-ND ***NEW!***		375.00 /1		—	—

‡ For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape Price Each

NEW! Corded Phone ICs Devices

Description	Digi-Key Part No.	Price Each
Demo Board for U4089B	DEMOBOARD-U4089B-ND	375.00
Demo Board for U4090B.1	DEMOBOARD-U4090B.1-ND	375.00
Demo Board for U4091BM	DEMOBOARD-U4091BM-ND	375.00

RFiD

Description	Package	Digi-Key Part No.	Price Each 1	25	100
Read/Write Base Station, 5V, 125KHz	16-SOIC	U2270B-MFP-ND	2.58	2.16	1.80

CIRRONET

RF Modules and Kits

ZMN2400(HP) Features: • 2.4GHz Direct Sequence Spread Spectrum (DSSS) • Ad Hoc mesh network • Low Power (see chart) • SPI and UART interface • FCC and CE Certified for unlicensed operation
WIT2450 Features: • 2.4GHz Frequency Hopping Spread Spectrum (FHSS) • Auto Ranging • Low Power (see chart) • FCC and ETSI Certified for unlicensed operation • RS-232 asynch interface
WIT910 Features: • 900MHz FHSS • 20+ mile range (Line of Sight) with Omni-Directional Antenna • FCC Certified for unlicensed operation • RS-232 asynch interface

Transceiver Modules

Power Output (mW)	Receive Sensitivity (dBm)	Oper. Temp (C°)	Oper. Volt. (Vdc)	Data Rate (Max. Kbps)	Power Consumption Sleep/Rec./Time	Digi-Key Part No.	Price Each	Cirronet Part No.
1	-94	-40~85	2.7~5.5	250	25uA/35mA/30mA	583-1000-ND	21.41	ZMN2400
100	-94	-40~85	3.3~5.5	250	25uA/50mA/150mA	583-1001-ND	36.06	ZMN2400HP
10,63,250†	-92	-40~70	3.3~10	460.8	750uA/40mA/150mA	583-1006-ND	147.20	WIT2450
10,100,500†	-103	-40~85	3.3~10	172.8	250uA/100mA/100mA	583-1008-ND	278.99	WIT910

† Software Selectable

Development Kits and Boards

Description	Digi-Key Part No.	Price Each	Cirronet Part No.
ZigBee Developer's Kit with ZMN2400 (2), Antennas, Cables and Software	583-1002-ND	298.99	ZMN2400DK
Zigbee Developer's Kit with ZMN2400HP (2), Antennas, Cables and Software	583-1003-ND	298.99	ZMN2400HPDK
Developer's Kit for WIT2450 Module with Modems (2), Antennas, Cables and Configuration Software	583-1007-ND	498.99	WIT2450DK
Developer's Kit for WIT910 Module with Modems (2), Antennas, Cables and Configuration Software	583-1009-ND	498.99	WIT910DK
Router Board Zigbee 1mW	583-1004-ND	195.50	ZMN2400DB
Router Board Zigbee 100mW	583-1005-ND	195.50	ZMN2400HPDB

C-MAX®

RF Technology Specialist

Antennas

Fig. 1

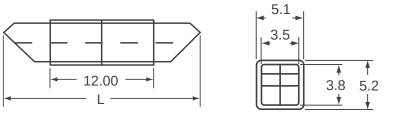

Fig. 2

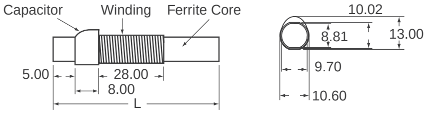

Fig.	Length "L" (mm)	Application	No. of Turns	Inductance	Unloaded Q (Min.)	Digi-Key Part No.	Price Each 1	10	100	C-Max Part No.
1	19	Watch	228	985 H	55	561-1002-ND	1.92	1.80	1.20	CMA-60-19
	24	Watch	203	985 H	50	561-1003-ND	1.95	1.80	1.20	CMA-60-24
2	60	Table Clock	147	1.5mH	120	561-1004-ND	1.38	1.30	1.00	CMA-60-60
	100	Wall Clock	139	1.5mH	110	561-1001-ND	1.53	1.40	1.05	CMA-60-100

C-MAX®
RF Technology Specialist

Equipment

1LA: Together with a time signal generator (TSG400, TSG800), the 1-loop-antenna creates a defined field strength in an area of 5-10 meters and provides the time signal DCF, WWVB, MSF or JJY
DAT100: The DAT100 is used with the TSG400/800 for direct connection between time signal generat or and the customized application. The DAT100 provides a reduced and levelled input for the application
TSG800: **Applications:** • Simulation of time signals DCF, MSF, WWVB, HBG and JJY • Creation of exact defined time signals for measuring purposes • Support of software development for RC watches and clocks • Creation of highly exact frequencies • Production test mode
Features: • Mains operated equipment with 50Ω output for time signal
GPS100: The GPS100 is a GPS receiver, used in connection with the TSG-series of time signal generators. GPS100 will receive the UTC time signal anywhere in the world and calculate it into the selected protocol. **Features:** • Exact time information, independent of location of production/ development place • Calculation of UTC time into selected protocol time
Benefits: • No outages due to reception difficulties in production location • Exact synchronization of RC time - avoiding time deviations when transporting time pieces to another country • Support of the internal AGC function of RC time pieces

Fig.	Digi-Key Part No.	Price Each	C-Max Part No.
1	561-1000-ND	299.00	1LA
2	561-1009-ND	149.00	DAT100
3	561-1011-ND	7499.18	TSG800
4	561-1010-ND	400.00	GPS100

Fig. 1

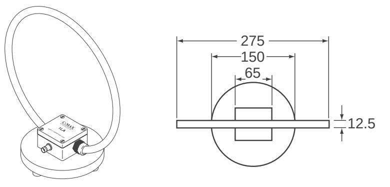

Fig. 2

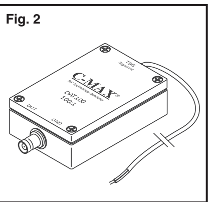

Fig. 3

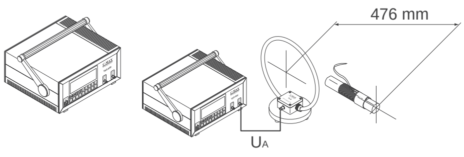

Fig. 4

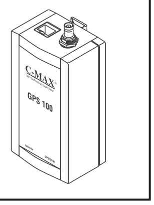

IC and Demo Boards

CME8000-BUS: The CME8000 is a BiCMOS integrated straight through receiver with build in very high sensitivity and a pre-decoding of the time signal transmitted from WWVB, DCF77, JJY40, JJY60, MSF and HBG. The receiver is prepared for multi-frequency and country reception by using an integrated logic. It is connected to an in-built micro-controller in the CME-BUS which is programmed with a pre-defined serial interface protocol. The module can then act as a tap into a inter-processor serial communications bus, and is able to communicate between two or more boards, micro controllers or other devices distributed among one or more platforms. From this module, any host can always through its interface obtain absolute proofed time information. **Features:** • Automatic reception of long wave time signals world wide • Manual or automatic selection of radio control signal possible • Forced reception mode • Real time clock • Real signal quality indicator during reception • 24-hour system • Host-controllable reception settings (including time and duration of reception) • Low power consumption (< 2mA during reception active mode) • Very high long wave reception sensitivity (0.4µV) • Build in decoding for different signals • Automatic switch between dual band signals • User settable reception mode by host software control command • Wide operating range: 2.7 to 5.0V
CME8000-DB: **General Description:** • Local time in hours/minutes/seconds plus Time Zone Indicator • Alarm • Date Alert • Time zone display in three different ways • Stop watch functions in three different ways • Low battery function • Back light
CME8000: It is the world's first mixed signal Bi-CMOS integrated straight through receiver with build-in very high sensitivity and a pre-decoding of the time signal transmitted from WWVB, DCF, JJY, MSF and HBG. The receiver is prepared for multi-countries reception by incorporating integrated logic, integrated functions such as stand by mode, integrated antenna switching, integrated crystal switching and a hold mode functions features for universal RC applications. The power down mode in the CME8000 increases the battery lifetime significantly and to make the device most suitable for all kinds of radio-controlled time pieces.
CME8000-EK: Evaluation kit includes: • TSG200 • CME8000-BUS module • 5 pieces of CME8000 samples • 6 pieces of crystal samples (two each: 40kHz, 60kHz, 77.5kHz) • 3 pieces of antenna samples (one each: 40kHz, 60kHz 77.5kHz)

Fig.	Digi-Key Part No.	Price Each	C-Max Part No.
1	561-1005-ND	26.95	CME8000-BUS-LP-01
2	561-1006-ND	200.00	CME8000-DB
3	561-1008-1-ND†	3.75	CME8000-TLPH
	561-1008-2-ND†	6500.00/4,000	CME8000-TLPH
	561-1007-5-ND†	3.60	CME8000-TLSH
—	561-1012-ND†	1200.00	CME8000-EK

† *RoHS Compliant*

Fig. 1

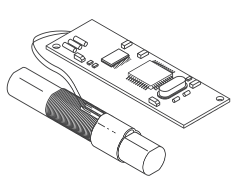

Fig. 2

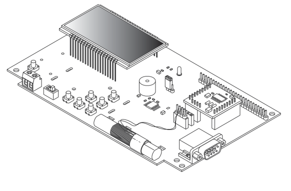

Fig. 3

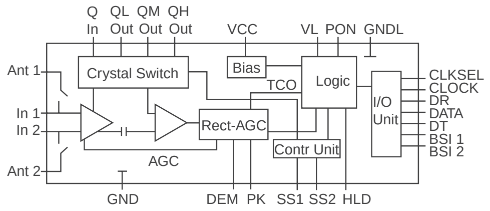

CYPRESS
"Connecting from Last Mile To First Mile."

Wireless USB

The **CYWUSB6935** transceiver is a single-chip 2.4GHz Direct Sequence Spread Spectrum (DSSS) Gaussian Frequency Shift Keying (GFSK) baseband modem radio that connects directly to a microcontroller.

The **CYWUSB6932/CYWUSB6934** Integrated Circuits (ICs) are highly integrated 2.4-GHz Direct Sequence Spread Spectrum (DSSS) Radio System-on-Chip (SoC) ICs. From the Serial Peripheral Interface (SPI) to the antenna, these ICs are single-chip 2.4GHz DSSS Gaussian Frequency Shift Keying (GFSK) baseband modems that connect directly to a USB controller or a standard microcontroller.

Function	Range (meters)	Through-put (Kbps)	Package	Temperature Range	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
Transmitter	10	62.5	28-SOIC	0°C ~ 70°C	428-1579-5-ND	7.63	4.70	3.82	CYWUSB6932-28SEC
Transceiver	10	62.5	28-SOIC	0°C ~ 70°C	428-1580-5-ND	10.98	6.88	5.49	CYWUSB6934-28SEC
Transceiver	10	62.5	48-QFN	0°C ~ 70°C	428-1581-ND	8.78	5.50	4.39	CYWUSB6934-48LFC
Transceiver	10	62.5	48-QFN	0°C ~ 70°C	428-1624-ND*	8.75	5.40	4.38	CYWUSB6934-48LFXC
Transceiver	50	62.5	48-QFN	0°C ~ 70°C	428-1625-ND*	10.98	6.80	5.49	CYWUSB6935-48LFXC
Transceiver	50	62.5	48-QFN	-40°C ~ 85°C	428-1626-ND*	12.63	7.80	6.32	CYWUSB6935-48LFXI

* *RoHS Compliant*

Development Kits for Wireless USB

CY4632 – Wireless USB Keyboard to Mouse

The CY4632 provides all the necessary documentation, firmware source code, and hardware files to quickly "cut the cord" for PC human interface device (HID) applications including optical mice, keyboards, presenter tools, and PC remotes.

Key Features:
• 2.4-GHz unlicensed ISM band for worldwide deployment • Over 10-meter wireless operation • 62.5 Kbps bidirectional wireless connectivity • Over 4 months battery life under normal usage models • Interference avoidance technology for robust operation in close proximity of 2.4-GHz wireless technologies like Wi-Fi(R) and Bluetooth(R) • USB plug'n play no new software drivers required

Kit Includes:
• CYWUSB6934 WirelessUSB LS transceiver • ADNS-2030 optical sensor mouse CYWUSB6934 WirelessUSB LS 101 multimedia keyboard • Small form factor CYWUSB6934 transceiver plus CY7C63723 enCoRe bridge • Batteries • CD with Design Notes and Hardware files: Schematics, Gerber Files, and Bill of Materials

428-1649-ND Reference Design Kit.. **$228.20**

CY3632

The CY3632 WirelessUSB™ LS Development Kit supports CYWUSB6932/CYWUSB6934 WirelessUSB family of devices. The development kit provides all the materials and documents needed to "cut the cord" on wired applications. The kit comes pre-configured as a WirelessUSB LS mouse pointer. Within minutes, you'll be experiencing the true "plug and play" quality of WirelessUSB and viewing WirelessUSB packets "over the air".

Features:
• WirelessUSB Listener Tool that enables the developer to analyze wireless data between the host and the peripheral devices

Kit Includes:
• Two base platform prototyping boards with a preprogrammed Cypress enCoRe™ USB low speed controller and a Cypress PSoC™ microcontroller mounted to either board • Two vertical WirelessUSB LS RF radio modules that plug directly into each prototyping board • Power cord, cables, connectors, batteries and chip kit with preprogrammed and blank enCoRe and PSoC devices for development

428-1582-ND Wireless USB Development Kit.. **$743.00**

CYPRESS
"Connecting from Last Mile To First Mile."

NEW! PRoC (Programmable Radio on Chip)

Memory Size	RAM	I²C	Range	Throughput	Package	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
8K	512	Yes	50 meters	62.5ksps	48-QFN	428-1771-ND	9.13	5.65	4.57	CYWUSB6953-48LFXC

Development Kit for PRoC

NEW! CY3653

The PRoC™ (Programmable-Radio-on-a-Chip™) Development Kit (CY3653) includes flexible development boards, PRoC modules, LCD modules, schematics, bills-of-materials, source code, and documentation for designers looking for a seamless transition from wired to wireless solutions. Customers can use the kit to achieve faster time to market for single-chip applications like small form-factor wireless keyboards and mice, presenter tools, wireless thermostats including LCD displays, precision remote controls for RC toys and more. PRoC combines Cypress's Wireless USB™ 2.4-GHz radio-on-a-chip and PSoC® Programmable System-on-Chip™ mixed signal array in an integrated product. It integrates Cypress's Direct Sequence Spread Spectrum (DSSS) interference immunity technology with the power and flexibility of the PSoC architecture, offering a complete wireless solution in a single chip.

Kit Includes: PSoC Evaluation Board, PRoC Modules for a fast plug-and-play solution, PRoC Programmer, LCD Module and a CD-ROM with kit documentation, hardware schematics, tutorial and firmware for application development.

428-1772-ND Development Kit for PRoC **$426.00**

NEW! DPAC TECHNOLOGIES 802.11B Modules and Kits

AirborneDirect™:

Bridge Modules come with either Ethernet, Serial (RS232/422/485) or RS232 connections, to a wireless LAN interface utilizing an 802.11B radio. Used to easily integrate wireless into a design. Includes antenna.

Airborne™ Embedded Modules:

Versions include LAN mode module, module with integrated Ethernet Bridge software or a module with integrated Serial Bridge software. U.FL Connector on board.

Description	Connection Type	Digi-Key Part No.	Price Each 1	10	25	Multi-Tech Part No.
AirborneDirect Modules/Kits						
Wireless Device Server 802.11b with Antenna	Ethernet	590-1000-ND	214.93	188.07	181.35	ABDB-ET-DP101
Wireless Device Server 802.11b with Antenna	Serial (RS232/422/485)	590-1001-ND	214.21	187.44	180.74	ABDB-SE-DP101
Wireless Device Server 802.11b with Antenna	RS232	590-1002-ND	210.61	184.29	177.71	ABDB-SE-DP107
Development Kit AirborneDirect Ethernet Bridge with Wireless Access Point	Ethernet	590-1003-ND	299.98	262.49	253.12	ABEB-ET-DP101
Development Kit AirborneDirect Serial Bridge with Wireless Access Point	Serial (RS232/422/485)	590-1004-ND	299.98	262.49	253.12	ABEB-SE-DP101
Airborne Embedded Modules/Kit						
802.11b Module with U.FL Antenna Port	Serial	590-1010-ND	120.17	102.51	98.97	WLNB-AN-DP101
802.11b Module Integrated Ethernet Bridge Software with U.FL Antenna Port	Ethernet	590-1012-ND	129.42	110.39	106.59	WLNB-ET-DP101
802.11b Module Integrated Serial Bridge Software with U.FL Antenna Port	Serial (RS232/422/485)	590-1013-ND	129.42	110.39	106.59	WLNB-SE-DP101
Development Kit for Airborne Embedded 802.11B Module with Wireless Access Point	Serial	590-1011-ND	486.53	421.66	413.55	WLNB-EK-DP001
Antennas and Accessories						
Adapter Cable, RPSMA (Jack) to U.FL (Plug) 100mm	—	590-1005-ND	14.85	11.22	10.56	ACH0-CA-DP004
Antenna, 2dBi, Rubber Duck, RP-SMA	—	590-1006-ND	13.57	10.26	9.65	ACH2-AT-DP002
Antenna, 5dBi, Rubber Duck, RP-SMA	—	590-1007-ND	15.71	11.87	11.17	ACH2-AT-DP003
Antenna, 5dBi, Rubber Duck, U.FL (Flying Lead)	—	590-1008-ND	16.99	12.84	12.08	ACH2-AT-DP004
Antenna, 5dBi, Magnetic Mount, Indoor/Outdoor	—	590-1009-ND	36.46	29.17	27.35	ACH2-AT-DP011

NEW! Helicomm RF Modules and Development Kits

Helicomm WIRELESS SOLUTIONS • SIMPLIFIED

1220 Series Modules: • 8051 based operation • Allows simplified integration of Zigbee Networking • Low Power • Power Amplifier for Extended Range (1221-2133 only) • 16 RF Channels • Small Size (**2033** - 1.6" x 0.7" x 0.2") (**2133** - 1.8" x 0.7" x 0.2")

1000 Series Module: • Mesh Networking Capability • 8051 Based Operation • Low Power

Packaged Devices: • Allows for rapid connection to PC • Provides a faster way to connect to the device using RS-232 • Provides mesh networking capability

Development Kit: EZDK 1220PA Includes: • 6 Interface Boards • Networking Software (WIN-View) • Complete Documentation • 6 USB Cables • 6 Power Supplies

0220-21XX: • Allows programming of the 1220 Series Modules out of circuit

Frequency	Data Rate - Max. (Kbps)	Transmit Range (LOS)	Power Consumption Transmit	Sleep	Digi-Key Part No.	Price Each 1	25	50	Helicomm Part No.
Embedded Modules									
2.4 GHz	250	75m	55 + 45mA	16uA	611-1001-ND	33.35	32.70	31.61	1221-2033
2.4 GHz	250	75m	55 + 45mA	16uA	611-1002-ND	39.03	38.27	36.99	1221-2133
915 MHz	76	150m	32mA	0.02mA	611-1004-ND	24.53	24.05	23.25	1000-1041
Packaged Product									
915 MHz	76	150m	32mA	30uA	611-1003-ND	78.69	77.15	74.58	2000-1061
2.4 GHz	250	100m	35mA	15uA	611-1006-ND	103.83	101.79	98.40	2221-2133
Development Kits/Programmers									
EZ Net Development Kit for Zigbee Networking					611-1005-ND	2490.00	—	—	EZDK 1220PA
Programmer for 1220 Series Modules					611-1007-ND	250.25	—	—	0220-21XX

Honeywell RF Switches, Attenuators and Evaluation Boards

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 2,500	Honeywell Part No.
31dB, DC-2.5GHz, 5-Bit SerialDigital Attenuator	16-VQFN	342-1046-1-ND	6.65	5.32	4.66	342-1046-2-ND	8875.00	HRF-AT4521-TR
31.5dB, DC-4GHz, 6-Bit Parallel Digital Attenuator	24-VQFN	342-1048-1-ND	6.53	5.22	4.57	342-1048-2-ND	8700.00	HRF-AT4610-TR
31.5dB, DC-4GHz, 6-Bit Serial Digital Attenuator	16-VQFN	342-1050-1-ND	6.73	5.38	4.71	342-1050-2-ND	8950.00	HRF-AT4611-TR
SP6T Absorptive RF Switch	24-VQFN	342-1044-1-ND	6.50	5.20	4.55	342-1044-2-ND	7800.00	HRF-SW1030-TR
Evaluation Board for HRF-AT4521		342-1047-ND	99.00	—	—	—	—	HRF-AT4521-E
Evaluation Board for HRF-AT4610		342-1049-ND	98.99	—	—	—	—	HRF-AT4610-E
Evaluation Board for HRF-AT4611		342-1051-ND	99.00	—	—	—	—	HRF-AT4611-E
Evaluation Board for HRF-SW1030		342-1045-ND	98.99	—	—	—	—	HRF-SW1030-E

NEW! FEIG ELECTRONIC Readers

ID CPR.02.VP/AB-ATS

ID CPR.02.VP/AB-ATS is not only able to identify ISO 14443, but also type ISO 15693 transponders. It is a multi-tag reader, which means that it is able to identify and to write on transponders of different manufacturers and ISO-types.The reader supports the safety functions of various known 13.56MHz transponders, such as MIFARE or my-d, due to a SAM-card interface for Security Access Modules. So the reader is even suitable for problematic applications such as ticketing and accounting systems. The use of an ISO-host record guarantees a problem free creation of user software as well as the module's unlimited compatibility with all readers of the OBID i-*scan*® family.

Specifications: • Dimensions (W x H x D): 114mm x 83mm x 48mm • Housing: Plastic ASA, desk top reader • Protection Class: IP 22 • Operating Frequency: 13.56MHz • Power Supply: 12-24VDC • Power Consumption: Max. 2.6W • Processable Transponders: ISO 14443-A (e.g. MIFARE, MIFARE Ultra Light, my-proximity) ISO 14443-B; ISO 15693 (e.g. I•CODE SLI, my-d vicinity, STM LRI512, Tag-it HF-I) • Processable Safety Features: Integrated SAM-card interface for SAM (e.g. my-d vicinity and my-d proximity) • Antenna: Integrated • Reading Distance: 7cm with ISO 15693-tags, 6cm with ISO 14443-A-tags. Reading distances depend on the used labels; here made statements relate to an inlet size of 76x45mm. In addition, tuning and quality of the antennas have to be taken into consideration. • Interfaces: 1x RS232 with 2.5m connecting cable • Signal Generator: 1 LED (bi-color), 1 Buzzer • Temperature Range: Operating: -20°C ~ 60°C; Storage: -40°C ~ 85°C • EEPROM: 1kB (10,000 writing cycles) • FLASH: Software-Update over interface possible

629-1001-ND	(FEIG ELECTRONICS # 0913.017.00.01)	**$777.70**

ID ISC.MR101-A, ID ISC.MR101-USB and ID ISC.MR101.M-A

Multi-tag mid range reader for identification of Smart Labels in the fields of application retail, rental services and industry. The mid-range reader ID ISC.MR101-A/-USB/-M-A works with Smart Labels which are based on transponders with an operating frequency of 13.56MHz. Depending on the antenna used, the reader has a maximum reading distance of up to 40cm.

Specifications: • Anticollision Function • OBID® i-*scan* SMP (Standard Multi-tag Protocol) • Multi-tag Reader (I•CODE, Tag-it, ISO 15693) • Housing: Plastic • Color: Light Grey • Dimensions (L x W x H): 145mm x 85mm x 31mm • Protection Class: IP 30 • Weight: 170g • Power Supply: Variant A: 12-24VDC +/-15% via external power supply; Variant USB: 12V via external power supply • Power Consumption: Approximately 6VA • Operating Frequency: 13.56MHz • Transmitting Power: Approximately 0.8 up to 1W • Modulation Factor: 10% and 100% (via software adjustable) • Antenna connection: 1 x SMA female plug (50Ω) • Reading Distance: Max. 40cm • Interfaces: RS232/RS485 (switchable) or USB • Signal Generator: 1 LED (multicolored red/green) • Processable Transponders: I-CODE, Tag-it and ISO 15693 • Temperature Range: Operating: -25°C ~ 60°C; Storage: -25°C ~ 85°C • FLASH: 64kByte (software may be updated via interface)

629-1015-ND	(FEIG ELECTRONICS # 1638.000.01.00) RS-232/485	**$529.90**
629-1016-ND	(FEIG ELECTRONICS # 1638.001.02.01) USB	**$567.40**
629-1019-ND	(FEIG ELECTRONICS # 1638.005.01.00) Module, RS232/485	**$501.10**

ID ISC.LRMU1000-A-FCC, ID ISC.LRU1000-A0-FCC and ID ISC.LRU1000-A-FCC

The UHF-Long Range Reader Module ID ISC.LRMU1000 identifies UHF transponders within a frequency range from 865 to 928MHz and so can be used in Europe and in North America.

Licensed according to EN and FCC, in each area maximum allowed transmitting power can be realized. Due to the high maximum reading range of up to 5m with a single antenna and up to 10m with a multi-antenna application, the reader is suitable especially for Asset Management and logistical applications especially there, simultaneous identification of several transponders and very high reading ranges are necessary!

Connection of up to 4 external antennas enables realization of multi-antenna-applications (integrated Multiplexer), two different interfaces (RS232, RS485) guarantee high flexibility to connect the reader with your individual backup-system. **Specifications:** • Dimensions (W x L x H): 170mm x 320mm x 48mm • Power Supply: 12-24VDC • Power Consumption: Max. 29VA • Operating Frequency: 869, 525MHz; 865, 6-867, 6MHz (200kHz steps); 902-928MHz (500kHz steps) • Transmitting Power: 100mW-4W (100mW steps); 4W EIRP; 2W ERP (0.5W ERP) • Modulation: 20%-40% and 100% (scalable via Software) • Receiver: Data rates 40-320kbps • Antenna Connectors: 4 x SMA connector (50Ω) • Outputs: 1 Optocoupler: 24VDC/30mA, 1 Relay (1x NO/NC): 24VDC/2A • Inputs: 1 Optocoupler: Max. 24VDC/20mA • Interfaces: RS232 and RS485 • Temperature Range: Operating: -25°C ~ 55°C (-25°C ~ 70°C); Storage: -25°C ~ 85°C

629-1049-ND	(FEIG ELECTRONICS # 2481.001.11.00) FCC Module	**$5192.60**

• Housing: Plastic with heatsink • Dimensions (W x L x H): 180mm x 320mm x 110mm • Protection Class: IP 54

629-1045-ND	(FEIG ELECTRONICS # 2241.002.12.00) Housed	**$3650.41**
629-1046-ND	(FEIG ELECTRONICS # 2241.002.11) Housed, Supports EPC Class 0/0+ Protocols	**$3849.57**

ID ISC.PRH101-B, ID ISC.PRH101-USB and ID ISC.PRH101-A

As every device of the OBID i-*scan*® *HF* product family, the hand-held reader ID ISC.PRH101-B identifies transponders with an operating frequency of 13.56MHz. The reader has a maximum reading/writing distance of up to 18cm and is suitable especially for mobile use in connection with a PDA or laptop.

PDA or laptop can be used as a mobile host e.g. as data collector.

The reader's own power supply allows RF transmitting power, that enables identification of transponders which are very close together.

Specifications: • Bluetooth interface (class I-B) • Anti-collision function • OBID i-*scan*® ISO Host Mode • 2 Operation Modes: Scan-Mode/Polling-Mode • Housing: Plastic ABS (closed) • Color: RAL 9002/RAL 7044 • Dimensions (L x W x H): 230mm x 100mm x 80mm • Weight: 320g (without batteries) • Protection Class: IP 30 • Power Consumption: Maximum 2.5W • Operating Frequency: 13.56MHz • Transmitting Power 0.5W +/-2dB • Antenna: Integrated • Interface: Bluetooth (class I)/USB/RS232 • Supported Transponders: ISO 15693 tags, ISO 18000-3 tags, optional: further tag types • Signal Generator: Optical: 1 LED (red/green/blue); Acoustic: Buzzer • Temperature Range: Operating: 0°C ~ 50°C; Storage: -20°C ~ 70°C • Relative Humidity: 95% (non condensing)

629-1010-ND	(FEIG ELECTRONICS # 1524.000.01.00) RS-232	**$475.20**
629-1011-ND	(FEIG ELECTRONICS # 1524.001.01.00) USB	**$509.80**
629-1013-ND	(FEIG ELECTRONICS # 1524.004.00.00) Bluetooth	**$777.60**

ID ISC.PRH110-A

The OBID i-*scan*® product family the hand-held reader ID ISC.PRH110-A operates with Smart Labels based on transponders with an operating frequency of 13.56MHz. The reader has a maximum reading distance of up to 18cm and is suitable primary for use in combination with a PDA or Laptop.

PDA or Laptop can be used as a mobile host (e.g. as a data collector) without stressing the host's battery through the hand-held reader.

Identification of Smart Labels even arranged very thickly to each other is possible by the reader's own power supply. A battery-capacity of 750mA guarantees up to 2000 scans.

Specifications: • Anti-collision function • Housing: Plastic ABS • Color: RAL9002/RAL 7044 • Dimensions (L x W x H): 230mm x 100mm x 80mm • Weight: 320g (without batteries) • Protection Class: IP 30 • Cable Length: 2.5m • Power Consumption: Max. 3VA • Operating Frequency: 13.56MHz • Transmitting Power: 0.5W • Antenna: Integrated • Interface: RS232 • Processable Transponders: ISO 15693-tags, I-CODE 1, Tag-it HF, EPC-tags • Signal Generator: Optical: 1 LED (red/green); Acoustic: 1 Buzzer • Temperature Range: Operating: 0°C ~ 50°C; Storage: -20°C ~ 70°C

629-1012-ND	(FEIG ELECTRONICS # 1524.003.00.00)	**$634.20**

ID ISC.PR101-A, ID ISC.PR101-USB and ID ISC.PR101.M-A

The proximity reader ID ISC.PR101-A/-USB/-M-A works with Smart Labels which are based on transponders with an operating frequency of 13.56MHz. The reader has an integrated antenna with a maximum reading distance of up to 18cm. Due to its compact dimensions, the reader is suitable for desk-applications. The reader's anticollision function facilitates simultaneous identification of several objects even when these are wrapped. **Specifications:** • Housing: Plastic • Color: RAL 9018, light grey • Dimensions (L x W x H): 145mm x 85mm x 31mm • Protection Class: IP 30 • Weight: 200g • Power Supply: Variant-A (RS232/RS485): 12-24VDC +/-15% via external power supply; Variant-USB: via USB interface • Power Consumption: Max. 5VA • Operating Frequency: 13.56MHz • Transmitting Power 0.5W • Modulation Factor: 10% and 100% (via software adjustable) • Antenna: Integrated • Reading Distance: Max. 18cm • Interfaces: RS232/RS485 (switchable) or USB • Signal Generator: 1 LED multicolored, red/green • Processable Transponders: ISO-tags 15693 (e.g. I-CODE, Tag-it, my-d, STM etc.) • Temperature Range: Operating: -25°C ~ 60°C; Storage: -25°C ~ 70°C • FLASH: 64kByte (software may be updated via interface)

629-1017-ND	(FEIG ELECTRONICS # 1638.002.01.00) RS-232	**$493.30**
629-1018-ND	(FEIG ELECTRONICS # 1638.003.02.01) USB	**$555.80**
629-1020-ND	(FEIG ELECTRONICS # 1638.007.01.00) Module	**$489.60**

ID ISC.M02-B

The ID ISC.M02-B works with Smart Labels with an operating frequency of 13.56MHz. The Read/Write PCB has a maximum reading distance of up to 10cm by using the integrated antenna. By using the external antennas, distances of 7cm (antenna size 30x40mm) respectfully 14cm (antenna size 100x100mm) will be reached. The reader is above all suitable for supply chain applications in the fields of retail, industry, logistics etc. It is even suitable for problematic applications such as ticketing and accounting systems due to an attachable security access module. Apart from this, the data/clock interface enables the reader to be used in access control systems.

Specifications: • Dimensions (L x W x H): 50mm x 50mm x 15mm • Connector Plug: 10-pole pin terminal (spacing = 2.54mm) • Operating Frequency: 13.56MHz • Power Supply: 5VDC +/-5% • RF Transmitting Power: 90mW +/-2dB • Power Consumption: Max. 1W • Processable Transponders: ISO 15693 transponders such as I•CODE SLI, my-d vicinity, STM LRI512, Tag-it HF-I etc. • Processable Safety Features: Refitting of SAM (Security Access Module) is possible for my-d vicinity • Antenna: Integrated, 48 x 48mm, external 50Ω antennas optional • Reading Distance: 10cm with integrated antenna up to 14cm with external antennas • Interfaces: 1x RS232-TTL, 1x Data/clock interface, (magnet card emulation and Wiegand emulation) • Signal Generator: 2 LED • Temperature Range: Operating: -20°C ~ 70°C; Storage: -40°C ~ 85°C • EEPROM: 1kB (10,000 writing cycles) • FLASH: 64kB (Software update over interface possible)

629-1032-ND	(FEIG ELECTRONICS # 1834.000.00.00)	**$201.60**

ID CPR.M02-VP/AB-B and ID CPR.M02-VP/AB-BA

The multi tag reader with anti-collision function, which means that it is able to identify transponders of different manufacturers and ISO types at the same time. The reader supports the safety functions of various known 13.56MHz transponders, such as MIFARE or my-d, due to an attachable Security Access Module which makes it even suitable for problematic applications such as ticketing and accounting systems. Apart from this, the data/clock interface enables the reader to be used in access control systems.

Specifications: • Dimensions (W x H x D): 50mm x 50mm x 14mm • Connector Plug: 10-pole pin terminal (spacing = 2.54mm) • Operating Frequency: 13.56MHz • Power Supply: 5VDC +/-5% • RF-Transmitting Power: 250mW +/-2dB • Power Consumption: Max. 1.5W • Processable Transponders: ISO 14443-A (e.g. MIFARE, MIFARE Ultra Light, my-proximity) ISO 14443-B • ISO 15693 (e.g. I•CODE SLI, my-d vicinity, STM LRI512, Tag-it HF-I) • Processable Security Features: Refitting of SAM (Security Access Module) is possible for e.g. my-d vicinity and my-d proximity • Antenna: Integrated, 48mm x 48mm • Reading Distance: 10cm with ISO 15693-tags, 4cm with ISO 14443-tags • Interfaces: 1x RS232-TTL, 1x Data/clock-interface (Magnet card emulation and Wiegand emulation) • Signal Generator: 2 LED • Temperature Range: Operating: -20°C ~ 70°C; Storage: -40°C ~ 85°C • EEPROM: 1kB (10,000 writing cycles) • FLASH: 64kB (Software-Update over interface possible)

629-1034-ND	(FEIG ELECTRONICS # 1916.000.00.00) On-Board Antenna	**$196.10**
629-1035-ND	(FEIG ELECTRONICS # 1916.001.00.00) Antenna Interface	**$207.70**

ID ISC.MR200-A and ID ISC.MR200-E

The reader ID ISC.MR200-A/-E is offered in an aluminium housing with the protection class IP 54; for this reason it is protected against dust, dirt and syringe water and can be used therefore in the industrial background. Transmitting power of up to 1.7 watt enables reading ranges of up to 70cm. The reader has several I/O's as well as a so-called antenna diagnosis function that indicates whether an antenna is not adjusted as required.

Specifications: • Housing: Aluminium • Color: RAL 7040 • Dimensions (L x W x H): 200mm x 110mm x 60mm • Protection Class: IP 54 • Power Supply: 12-24VDC • Power Consumption: Max. 12VA • Operating Frequency: 13.56MHz • Transmitting Power: 1.7W • Antenna Connection: SMA plug (50Ω) • Outputs: 2 Optocouplers: 24VDC/30mA; 1 Relay; 24VDC/2A • Inputs: 2 Optocouplers: Max. 24VDC/20mA • Interfaces: Version -A: RS232 and RS485 (adjustable); Version -E: Ethernet 10Base-T or 100Base-TX • Operation Modes: FEIG ISO Host Protocol • Processable Transponders: ISO 15693, EPC • Address Control for Interface: Software (up to 254 addresses, only RS485) • Signal Generator: 5 LED • Temperature Range: Operating: -20°C ~ 60°C; Storage: -25°C ~ 85°C

629-1041-ND	(FEIG ELECTRONICS # 2060.000.00.01) A Version, RS-232/485	**$1991.23**
629-1043-ND	(FEIG ELECTRONICS # 2221.000.00.01) E Version, Ethernet	**$2423.40**

ID ISC.LRM2000-A, ID ISC.LRM2000-B and ID ISC.LR2000-A

The ID ISC.LR2000 Long Range Reader and the ID ISC.LRM2000 Long Range Reader Unit are the top of the line Long Range Reader versions of the OBID i-*scan*® HF product line.

The ID ISC.LR2000 and ID ISC.LRM2000 are the most powerful reader in the OBID i-*scan*® HF product line. Both devices have identical RF performance. The ID ISC.LRM2000 differs from the ID ISC.LR2000 in terms of housing, interface options and functionality for the host connectivity of the device.

Features: • Highly sensitivity receiver increased the tag detection range so that the most transponders can be read over the entire power up, field strength area. • RF front end accommodates arbitrary cable lengths between the reader and the antenna without adversely affecting the read range of the antenna. • RF front end has its own power control to protect the read range from external noise sources. • The reader delivers a DC voltage on the antenna output to source DC powered devices connected to the antenna cable, such as the FEIG Dynamic Antenna Tuning board (ID ISC.ANT.DAT-A). • RF source of the reader meets different national radio rules and can achieve the 60dbµA/m ETSI limits.

The reader is able to directly control antenna multiplexing functions. The RF section of the reader is controlled by a dedicated DSP based, RF controller. A second microcontroller, the Application and Connectivity Controller (ACC), uses an ARM processor running a µcLinux operating system. The reader has four hardware interface ports: Ethernet, RS232, RS485, and a Compact Flash 2 compatible port to support a WLAN Card. All ports are under control of the ACC. In combination, the powerful and flexible RF transmitter and receiver and intelligent digital controller form the basis of an agile, multi protocol reader that can be updated as future protocols and features are created.

Specifications for LRM2000: • Dimensions (W x H x D): 120mm x 160mm x 45mm • Weight: 0.6kg • Power Supply: 24VDC ±15% • Power Consumption: Max. 32VA • Operating Frequency: 13.56MHz • Transmitting Power: 4 to 12W • Antenna Connection: 1 x SMA connector (50Ω) • DC Power on RF Line: 8VDC max. 150mA • RF Diagnostics: Internal SWR Meter internal overheating control • Outputs: 1 Optocoupler: 24VDC/30mA; 1 Differential Output: Reader synchronisation; 1 Relay (1x NO/NC): 24VDC/2A • Inputs: 1 Optocoupler: Max. 24VDC/20mA; 1 Differential Input: Reader synchronisation • Interface: RS-232 and RS-485 • Supported Transponder: I-Code1, ISO15693, 18000-3-A, (e.g. I-Code SLI, my-d, STM LRI512/64, Tag-it HFI) • Indicators: 5 LED for diagnosis of the operation status • Temperature Range: Operating: -20°C ~ 55°C; Storage: -25°C ~ 85°C **Specifications for LR2000:** • Casing: Plastic • Dimensions (W x H x D): 180mm x 320mm x 110mm • Weight: 1.9kg • Protective System: IP 54 • Color: Black • Power Supply:

(Continued)

NEW! FEIG ELECTRONIC Readers *(Cont.)*

ID ISC.LRM2000-A, ID ISC.LRM2000-B and ID ISC.LR2000-A *(Cont.)*

24VDC ±15% • Power Consumption: Max. 32VA • Operating Frequency: 13.56MHz • Transmitting Power: 4 to 12W • Antenna Connection: 1x SMA connector (50Ω) • DC Power on RF Line: 8VDC max. 150mA • RF Diagnostics: Internal SWR Meter internal overheating control • Outputs: 1 Optocoupler: 24VDC/30mA; 1 Differential Output: Reader synchronisation; 1 Relay (1x NO/NC): 24VDC/2A • Inputs: 1 Optocoupler: Max. 24VDC/20mA; 1 Differential Input: Reader synchronisation • Interface: RS-232 and RS-485, Ethernet (TCP/IP), Compact Flash-II (WLAN) • Supported Transponder: I-Code1, ISO15693, 18000-3-A, e.g. I-Code SLI, my-d, STM LRI512/64, Tag-it HFI • Indicators: 6 LED for diagnosis of the operation status • Temperature Range: Operating: -20°C ~ 55°C; Storage: -25°C ~ 85°C

629-1003-ND	(FEIG ELECTRONICS # 1260.021.00.00) Module, No Housing	**$2553.60**
629-1004-ND	(FEIG ELECTRONICS # 1260.022.00.00) Module, No Housing, RS-232/485 Only	**$2323.20**
629-1002-ND	(FEIG ELECTRONICS # 1260.020.00.00) In Housing	**$2640.00**

Antennas

ID ISC.ANT300/300

ID ISC.ANT300/300 is a single-loop antenna with pre-set adjustment electronics and has been optimized as a transmitting and reception antenna for reader ID ISC.LR2000. At a calibrated transmitting power of 4W a reading range of up to 55cm is possible. Furthermore, it can be used with other readers having a transmitter frequency of 13.56MHz and an output impedance of 50Ω.

The antenna is suitable for both object and personal identification. The preferred direction of a smart label is parallel to the antenna's surface. The right position to obtain a maximum range would be above the centre of the antenna's surface. **Specifications:** • Housing: Plastic ABS • Dimensions (W x H x L): 322mm x 337mm x 40mm ±1mm • Weight: Approximately 0.7kg • Protection Class: IP 65 • Color: Black • Maximum Transmitting Power: 8W • Operating Frequency: 13.56MHz • Working Range: Maximum 55cm • Antenna Connection: 1 x SMA Plug (50Ω) • Antenna Connection Cable: RG58, 50Ω, Approximately length of 3.6m • Temperature Range: Operating: -25°C ~ 55°C; Storage: -25°C ~ 60°C

629-1007-ND	(FEIG ELECTRONICS # 1451.000.00.01)	**$675.50**

ID ISC.ANT800/600-DA

As a single loop antenna with tuning circuitry with a transmitting power of maximum 4W (Europe), a maximum reading range of 80cm is possible. Gate configurations of 2, 4 or 6 antennas ID ISC.ANT800/600-DA enable even 200cm, using a parallel transponder orientation. The antenna consists of the electrical antenna conductor, housing and the tuning circuitry ID ISC.DAT (Tuner) and is factory tuned on a wood base to an impedance of 50Ω. After installing in changed ambient conditions, the antenna can be tuned using the corresponding commands. **Specifications:** • Housing: Plastic ABS • Dimensions (W x H x D): 852mm x 620mm x 40mm +/-1mm • Color: Black • Weight Approximately 2.5kg • Protection Class: IP 65 • Safety: USA, UL 1950 • Max. Transmitting Power: 8W • Max. Permitted Transmitting Power: EU (EN 300 330): 4W; USA (FCC Part 15): 0.25W • Operating Frequency: 13.56MHz • Reading Range: 80cm • Antenna Connection: SMA plug (50Ω) • Antenna Connection Cable: RG 58, 50Ω, 3.6m • Temperature Range: Operating: -25°C ~ 55°C; Storage: -25°C ~ 60°C

629-1008-ND	(FEIG ELECTRONICS # 1451.008.00.00)	**$2272.30**

ID ISC.ANT.U250/250-FCC

The UHF antenna ID ISC.ANT.U250/250-FCC are circular polarized antenna for operating frequencies in the UHF range 902-928MHz (FCC antenna). Transponders can be identified in two different orientations (E plane / H plane). **Specifications:** • Housing: Plastic • Dimensions (W x H x D): 260mm x 260mm x 56mm • Weight: Approximately 1050g • Color: White (similar RAL9018) • Protection Class: IP 54 • Operating Frequency: FCC antenna, 902-928MHz • Gain: FCC antenna, 8.7dBic @ 915MHz • 3dB Beam Width: E plain: 65°; H plain: 65° • Polarization: Circular • VSWR: <1.5:1 • Antenna Connection: SMA socket (50Ω) • Temperature Range: Operating: -25°C ~ 55°C; Storage: -25°C ~ 85°C

629-1009-ND	(FEIG ELECTRONICS # 1451.009.02.00)	**$544.30**

ID ISC.ANT340/240

OBID i-*scan*® mid range antennas are operated in combination with mid range reader ID ISC.MR100-x. Depending on the application, pad or industrial antennas may be used. The elegant Pad Antenna ID ISC.ANT340/240 is perfectly suitable for desk applications with a reading range of up to 30cm. File and document tracking as well as the registration of rental goods during distribution and return are only two out of many possible applications. For applications in rough industrial environments with a required range of up to 40cm, we recommend antenna type ID ISC.ANT300/300. **Specifications:** • Housing: Plastic ABS • Color: Grey-white • Dimensions (W x H x D): 337mm x 237mm x 8.3mm • Weight: 530g • Protection Class: IP 40 • Admissible Transmitting Power: 1W • Reading Distance: Up to 30cm • Antenna Connection: SMA - plug (50Ω) • Antenna Cable: RG174 (2.0m) • Operating Frequency: 13.56MHz • Temperature Range: Operating: 0°C ~ 55°C; Storage: -25°C ~ 85°C

629-1025-ND	(FEIG ELECTRONICS # 1663.000.00.00)	**$256.20**

ID ISC.ANT100/100-A

ID ISC.ANT100/100-A • External 50Ω antenna for ID ISC.M02 • Dimensions: 100mm x 100mm • Cable: Coax cable approximately 50cm in length

629-1039-ND	(FEIG ELECTRONICS # 1968.000.00.00)	**$98.80**

ID ISC.ANT40/30-A

ID ISC.ANT40/30-A • External 50Ω antenna for ID ISC.M02 • Dimensions: 40mm x 30mm • Cable: Coax cable approximately 50cm in length

629-1038-ND	(FEIG ELECTRONICS # 1967.000.00.00)	**$68.60**

Accessories

ID ISC.DAT-A

With the help of these tuning boards, you can realize your own individual antenna arrays, combined with our i-*scan*® Long Range readers. The dynamic antenna tuner ID ISC.DAT-A is designed for automatic calibrating and tuning of RFID antennas with an operating frequency of 13.56MHz. The parameters for setting the antenna are measured on the board under operating conditions. The antenna tuner is also able to disconnect the antenna circuit through an electronic switch up to a certain power. The ID ISC.DAT is driven over the HF line. The antenna tuner thus functions as a so-called function unit. Measured parameters or the calibration status can be sent to the host over the HF line. Dynamic Antenna Tuning Board. **Specifications:** • Dimensions (W x H x D): 118mm x 90mm x 19mm • Weight: Approximately 100g • Supply Voltage: 7-12VDC • Current Consumption: Maximum 150mA (DC) • Operating Frequency: 13.56MHz • Maximum Transmitting Power: 10W • Antenna Switch: Electronic Switch • Antenna Connection: Cable Terminals d = 2-9mm • RF Connection: SMA Male (50Ω) • Triggering: Reader, Communication via RF-Connection • Outputs: 3 x Open Collector: 5VDC/maximum 15mA • Signal Indicator: 1 x «RUN"-LED • Interface: RS232 TTL (for Firmware Update) • Carrier Frequency: 13.56MHz • Impedance: 50Ω • Tuning Range Inductance: 0.7-2.5µH • Quality: 10-50 • Temperature Range: Operating: -25°C ~ 75°C; Storage: -40°C ~ 80°C

629-1006-ND	(FEIG ELECTRONICS # 1269.005.00.00)	**$995.30**

ID ISC.ANT.PS-B

ID ISC.ANT.PS-B is a 3dB power splitter with galvanic isolation between the input and the two outputs. At the operating frequency of 13.56MHz the impedance on all in and outputs is calibrated to 50Ω. Both outputs are internally wired in parallel. The galvanic isolation can be enabled by means of two jumpers. The device is designed for installation indoors or outdoors. The connection cable from the Reader to the ID ISC.ANT.PS-B is 3.6m in length. This extends the overall cable length from Reader to antenna to a total of 7.20m. **Specifications:** • Housing: Plastic Polycarbonate (light white) • Dimensions (W x H x D): 130mm x 94mm x 57mm ±2mm • Weight: Approximately 275g • Enclosure Rating: IP 65 • Cable Fittings: 4 x Cable Fitting M16 x 1.5 • Voltage Supply: 12-24VDC (optional) • Power Consumption: Maximum 4W • Operating Frequency: 13.56MHz • RF Connections: 1 x Input and 2 x Output: SMA Jack (50Ω) (Maximum tightening torque: 0.45Nm) • SWR: Maximum 1.2:1 (50Ω) • Input Loss: Maximum 0.6dB • Temperature Range: Operating: -25°C ~ 55°C; Storage: -40°C ~ 85°C • Flame Proof: UL1950, HB without Cable

629-1005-ND	(FEIG ELECTRONICS # 1269.003.01.01)	**$416.64**

ID ISC.MAT-A

The tuning board ID ISC.MAT-A is a manually adjustable matching circuit for constructing custom antennas having a transmission frequency of 13.56MHz and an input impedance of 50Ω.

Together with an antenna conductor (e.g., the shield of an RG213 cable) it is quite easy to construct antennas of various sizes and shapes. The antennas are tuned using jumpers and trim capacitors after installing the antenna conductor. After this the antenna must be continuously matched to its surrounding conditions. If after tuning the antenna is moved to a different position under different ambient conditions, it may have to be recalibrated. **Specifications:** • Construction: Single-sided circuit board • Dimensions (W x H x D): 90mm x 80mm x 20mm ±1mm • Weight: Approximately 0.1kg • Maximum Transmitting Power: 8W • Reader Connection: Two-sided solder pad for soldering the antenna cable with strain relief • Antenna Conductor Connection: Two-sided solder pad with hole for screw attachment (M5 screw) • Antenna Parameters: Transmitting and Receiving Frequency: 13.56MHz; Impedance: 50Ω; Inductance Calibration Range: 0.6-2.5µH; Q: 10-30 • Temperature Range: Operating: -25°C ~ 55°C; Storage: -25°C ~ 60°C

629-1037-ND	(FEIG ELECTRONICS # 1966.000.00.00)	**$244.80**

ID ISC.ANT.MUX

The 8 times Multiplexer ID ISC.ANT.MUX facilitates switching between RFID antennas with an operating frequency of 13.56MHz. With one Multiplexer several single antennas and gate solutions (existing of base and complementary antennas) can be operated with only one reader. Any of the eight Multiplexers outputs can be assigned to both inputs by jumper adjustment. The Multiplexer is controlled either via a digital input or the antenna cable connected with the reader. **Specifications:** • Dimensions (L x W x H): 182mm x 110mm x 90mm • Weight: Approximately 550g • Protection Class: IP 65 • Grommet: 12x screwed cable gland M16 x 1.5 • Power Supply: 12-24VDC • Power Consumption: Max. 4W • Operating Frequency: 13.56MHz • Absorbability per Channel: Max. 0.5dB • Max. Allowed Switching Capacity: 10W • RF Connections: 2x Input: SMA Socket (50Ω); 8x Output: SMA Socket (50Ω) • RF Switch: Switching rate: Electronic switch, <1ms • Triggering: Reader: via RF input 1; External pulse generator: digital input • Digital Inputs: 1 Opto coupler input, maximum 24VDC/20mA • Display: 1x LED per channel, 3x LED (Run/HF/communication) • Temperature Range: Operating: -25°C ~ 65°C; Storage: -40°C ~ 80°C

629-1040-ND	(FEIG ELECTRONICS # 1977.000.00.00)	**$2359.50**

ID CAB.A-A

The ID CAB.A-A is a short adapter cable that converts a 10-pin molex style connector through a ribbon cable to a 9-pin Sub D female connector. It is used with ISC.M02 and CPR.M02 reader modules

629-1047-ND	(FEIG ELECTRONICS # 2259.000.00)	**$18.87**

ID CAB.NET.24V-B-US

This ID CAB.NET.24V-B-US is an AC power cord that is used with the ID NET.24V-B power supply unit. It uses a U.S. style, AC male plug on one end and a computer style female connector to the power supply unit on the other.

629-1051-ND	(FEIG ELECTRONICS # 2560.000.00.00)	**$8.90**

ID CAB.RS-A

The ID CAB.RS-A is a communication cable for RS-232/RS-485 interfaces. It is used with ID ISC.MR101-A, ID ISC.PR101-A, ID ISC.MR101.M-A and ID ISC.PR101.M-A reader products. The cable uses a 9-pin Sub D male on one end and a 9-pin Sub D female with a DC jack spliced on the other end.

629-1028-ND	(FEIG ELECTRONICS # 1690.000.00.00)	**$25.10**

ID ISC.ANT.C2-A and ID ISC.ANT.C6-A

ID ISC.ANT.C2-A and ID ISC.ANT.C6-A is a coaxial cable with male SMA style plug connectors on both ends. The cable is used with ID ISC.ANT.U250/250 UHF antennas.

629-1023-ND	(FEIG ELECTRONICS # 1654.002.00.00) 2 Meter Cable	**$70.60**
629-1024-ND	(FEIG ELECTRONICS # 1654.003.00.00) 6 Meter Cable	**$86.10**

ID ISC.ANT.C-A

ID ISC.ANT.C-A is a 1/4 Lambda @ 13.56MHz, 3.6 meter, RG58 C/U, coaxial cable with male SMA style plug connectors on both ends. The cable is used with ID ISC.DAT-A Dynamic Antenna Tuning Boards.

629-1042-ND	(FEIG ELECTRONICS # 2096.000.00.00)	**$57.30**

ID ISC.ANT.EC

ID ISC.ANT.EC is a 1/2 Lambda, 7.2 meter, RG58 C/U, coaxial cable with one male SMA style plug connector on one end and one SMA female in-line splice connector on the other. The cable is used as an antenna extension cable when used with ID ISC.DAT-A Dynamic Antenna Tuning Boards, ID ISC.ANT300/300 antenna, ID ISC.ANT800/600-DA antenna, and ID ISC.ANT1400/760-A/B/C gate antennas.

629-1021-ND	(FEIG ELECTRONICS # 1654.000.00.00)	**$60.30**

ID ISC.CF2.WLAN-A

ID ISC.CF2.WLAN-A is a wireless 802.11, compact flash card used in the ID ISC.LR2000, ID ISC.LRU1000 and ID ISC.LRU2000 readers.

629-1048-ND	(FEIG ELECTRONICS # 2421.000.01.00)	**$205.90**

ID ISC.MS.MR/PR-A

ID ISC.MS.MR/PR-A is a mounting set that attach to the back of our mid-range (MR) or proximity range (PR) readers.

629-1029-ND	(FEIG ELECTRONICS # 1691.000.01.00)	**$32.70**

ID NET.24V-B

ID NET.24V-B is a 110/220 VAC to 24 volt DC power adapter. It is provided with two, screw terminal connectors; one style for the LR200 the other connector is compatible with the LR2000, LRU1000, and LRU2000 products. It requires the use of an AC power cord, (ID CAB.NET.24V-B-US).

629-1050-ND	(FEIG ELECTRONICS # 2557.000.00.00)	**$122.50**

freescale semiconductor

RF/Zigbee Transceivers

Designed for Low-Power, Low data rate applications, Freescale's offering of RF/Zigbee Transceivers covers any need that might arise in the development of your design. Freescale has solutions for both proprietary and Zigbee networks. Single-chip transceivers eliminate the need for a lot of external components. System in a package solutions integrates an 8-bit micro to further lower the cost of implementation.

Protocol	Max Data Rate (kbps)	Supply Voltage (V)	Supply current @ 1% Duty Cycle (Typ mA)	Frequency (GHz)	Tx/Rx Switch	Package Type	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
2.4GHz Transceivers											
Figure 8 Wireless Zigbee™	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13193FC-ND	7.86	5.61	5.10	MC13193FC
Figure 8 Wireless Zigbee™	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13193FCR2CT-ND	7.86	5.61	5.10	MC13193FCR2
Figure 8 Wireless Zigbee™	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13193FCR2TR-ND	11350.00/2,500			MC13193FCR2
Zigbee™/ IEEE®802.15.4	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13192FC-ND	6.37	4.55	4.14	MC13192FC
Zigbee™/ IEEE®802.15.5	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13192FCR2CT-ND	6.37	4.55	4.14	MC13192FCR2
Zigbee™/ IEEE®802.15.6	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13192FCR2TR-ND	9202.50/2,500			MC13192FCR2
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13191FC-ND	5.50	3.93	3.57	MC13191FC
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13191FCR2CT-ND	5.50	3.93	3.57	MC13191FCR2
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13191FCR2TR-ND	7945.00/2,500			MC13191FCR2
Proprietary	250	2.0 ~ 3.4	30 Tx / 37 Rx	2.4 ~ 2.5	No	32-QFN	MC13190FCCT-ND	5.05	3.07	2.93	MC13190FCR2
Development Tools											
Development Kit for MC13191/2							13192DSK-A00-ND	245.00	212.52	203.04	13192DSK-A00
Daughter Board for MC13192, for Interface to 9S08 Development Boards							13192RFC-A00-ND	184.62	160.14	153.00	13192RFC-A00
Evaluation Board for MC13192/3							13193EVB-A00-ND	467.28	—	—	13193EVB-A00
Zigbee Kit with Eval F8 Stack							13193EVK-A00-ND	1653.65	—	—	13193EVK-A00

NEW! RF High Power LDMOS Transistors

Frequency Band (MHz)	P_{OUT} Typ. (W)	V_{DD} (V)	Gain dB/MHz	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 500
1930-1990	12	28	14/1990	TO-272	MRF5S19060NBR1CT-ND	54.55	45.43	42.75	MRF5S19060NBR1TR-ND	17868.00
1930-1990	12	28	14/1990	TO-270	MRF5S19060NR1CT-ND	54.55	45.43	42.75	MRF5S19060NR1TR-ND	17868.00
880	20	26	19.5/880	TO-272	MRF5S9100NBR1CT-ND	48.09	40.05	37.68	MRF5S9100NBR1TR-ND	16812.00
880	20	26	19.5/880	TO-270	MRF5S9100NR1CT-ND	48.09	40.05	37.68	MRF5S9100NR1TR-ND	16812.00
869-960	100	26	17.5/960	TO-272	MRF5S9101NBR1CT-ND	48.09	40.05	37.68	MRF5S9101NBR1TR-ND	16812.00
869-960	100	26	17.5/960	TO-270	MRF5S9101NR1CT-ND	48.09	40.05	37.68	MRF5S9101NR1TR-ND	16812.00

NEW! Jennic IEEE802.15.4/Zigbee Modules, IC's and Kits

Jennic TECHNOLOGY FOR A CHANGING WORLD

The Jennic JN5121 wireless microcontroller is the first in the industry to offer a 32-bit microcontroller with a 802.15.4/Zigbee radio on a single chip.

Features:

- Low power (see chart below), reduced external components, and 128-bit AES encryption.
- The Modules make it easy to implement the JN5121 solution in your design with small size and ease of use.
- Comes with a full, unrestriced C Compiler, and example application already installed on board.

RoHS COMPLIANT

Frequency	CPU	RAM (Kb)	ROM (Kb)	Flash (Kb)	Serial Interface	Transmit Power (dBm)	Operating Voltage (V)	Rx/Tx Current (mA)	Antenna Type	Package	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel ‡ Size	Pricing	Jennic Part No.
Wireless Microcontroller																	
2.4 GHz	32-bit (RISC)	96	64	—	SPI, I²C, UART	+1	2.2-3.6	50 / 40	—	56-QFN	616-1001-1-ND ‡	12.43	9.94	—	1,000	6213.00	JN5121-CRRV
2.4 GHz	32-bit (RISC)	96	64	—	SPI, I²C, UART	+1	2.2-3.6	50 / 40	—	56-QFN	616-1002-5-ND	12.72	9.94	6.12	—	—	JN5121-CRRS
Wireless Modules																	
2.4 GHz	32-bit (RISC)	96	64	128	SPI, I²C, UART	—	2.7-3.6	60 / 45	Ceramic Chip	18 x 30 mm	616-1007-1-ND ‡	47.56	37.16	22.86	500	18115.50	JN5121-MO000-CRR
2.4 GHz	32-bit (RISC)	96	64	128	SPI, I²C, UART	—	2.7-3.6	60 / 45	SMA Connector	18 x 30 mm	616-1008-1-ND ‡	73.06	57.08	39.96	200	5463.60	JN5121-MO003-CRR
2.4 GHz	32-bit (RISC)	96	64	128	SPI, I²C, UART	18	2.7-3.6	65 / 170	SMA Connector	18 x 40 mm	616-1009-ND	62.59	48.90	30.08	—	—	JN5121-MO006-CRR
Evaluation and Development Kits																	
Development Kit for JN5121 Wireless Microcontroller, Includes 1 Controller Board w/ LCD, 4 Sensor Boards with Temperature Humidity and Light Sensors, Debug Cable, Batteries and Software											616-1003-ND	1000.00/1					JN5121-EK000
Sensor Expansion Pack for Development kit, Quickly add 4 More Sensor Kits to your Development, with Ceramic Antennas											616-1004-ND	700.000/1					JN5121-EK001
Controller Expansion Pack for Development kit, includes 1 Controller Board with SMA Antenna											616-1005-ND	350.00/1					JN5121-EK002
Sensor Expansion Pack for Development kit, Quickly add 4 more Sensor Kits to your Development, with SMA Antennas											616-1006-ND	700.00/1					JN5121-EK004
Serial Level Converter Dongle (debug adapter)											616-1010-ND	53.91/1					JN-AC001

‡ For Tape and Reel part number, change 1-ND to 2-ND.

Upconverting Mixers

Frequency (MHz) Min.	Max.	LO Drive (dB)	LO Leakage (dB)	Package	Digi-Key Part No.	Price Each 1	25	100
10	3,000	-10	36	16-TSSOP	LT5511EFE-ND	7.38	5.27	4.34
10	3,000	-10	36	16-TSSOP	LT5511EFE#PBF-ND* ***NEW!***	7.38	5.27	4.34

***** RoHS Compliant***

Downconverting Mixers

Frequency (MHz) Min.	Max.	Noise Frequency (dB)	Conv. Gain (dB)	Package	Digi-Key Part No.	Price Each 1	25	100
0.1	3,000	14	1	16-QFN	LT5512EUF-ND	7.38	5.27	4.34
0.1	3,000	14	1	16-QFN	LT5512EUF#PBF-ND* ***NEW!***	7.38	5.27	4.34
400	2,700	13.9	-0.1	16-QFN	LT5522EUF-ND	10.40	7.43	6.12
400	2,700	13.9	-0.1	16-QFN	LT5522EUF#PBF-ND* ***NEW!***	10.40	7.43	6.12
800	2,500	15	-1.7	16-QFN	LT5525EUF-ND	7.60	5.43	4.47
400	3,700	12.5	2.3	16-QFN	LT5527EUF#PBF-ND* ***NEW!***	11.60	8.27	6.81

***** RoHS Compliant***

RF Log Detectors

Frequency (MHz) Min.	Max.	Detect (dB) Min.	Max.	Dynamic Range	I Supply (mA)	Package	Digi-Key Part No.	Price Each 1	25	100
10	1,000	-76	14	83	13.5	8-DFN	LT5537EDDB#PBF-ND* ***NEW!***	5.90	4.20	3.45
800	2,700	-80	2	80	14.7	8-MSOP	LT5504EMS8-ND	12.50	8.93	7.35
50	3,000	-63	2	60	7	SC70-6	LT5534ESC6#PBF-ND* ***NEW!***	9.10	6.51	5.35

***** RoHS Compliant***

IQ Demodulators

Frequency (MHz) Min.	Max.	IIP3 (dB)	Noise Figure (dB)	LO Leakage (dB)	Package	Digi-Key Part No.	Price Each 1	25	100
1,500	2,500	20	16.8	-41	16-QFN	LT5515EUF#PBF-ND ***NEW!***	13.50	9.64	7.94
800	1,500	21.5	12.8	-55	16-QFN	LT5516EUF#PBF-ND ***NEW!***	14.75	10.54	8.68
40	900	21	12.4	-59	16-QFN	LT5517EUF#PBF-ND ***NEW!***	14.75	10.54	8.68

RF Schottky Peak Detectors

Frequency (MHz) Min.	Max.	Detect (dB) Min.	Max.	Dynamic Range	I Supply (mA)	Package	Digi-Key Part No.	Price Each 1	25	100
300	3,000	-28	18	46	0.5	SOT-23-5	LTC5505-1ES5-ND	2.48	1.65	1.24
300	3,000	-28	18	46	0.5	SOT-23-5	LTC5505-1ES5#PBF-ND* ***NEW!***	2.48	1.65	1.22
300	3,500	-32	12	44	0.5	SOT-23-5	LTC5505-2ES5-ND	2.48	1.65	1.24
300	3,500	-32	12	44	0.5	SOT-23-5	LTC5505-2ES5#PBF-ND* ***NEW!***	2.48	1.65	1.22
0.1	1,000	-32	14	46	0.55	SOT-23-6	LTC5507ES6-ND	3.10	2.22	1.82
0.1	1,000	-32	14	46	0.55	SOT-23-6	LTC5507ES6#PBF-ND* ***NEW!***	3.10	2.22	1.82
300	7,000	-32	12	44	0.55	SC70-6	LTC5508ESC6-ND	2.98	2.13	1.75
300	7,000	-32	12	44	0.55	SC70-6	LTC5508ESC6#PBF-ND* ***NEW!***	2.98	2.13	1.75
300	12,000	-32	10	42	0.5	SOT-23-6	LTC5532ES6-ND	3.13	2.19	1.85
300	12,000	-32	10	42	0.5	SOT-23-6	LTC5532ES6#PBF-ND* ***NEW!***	3.13	2.08	1.39

***** RoHS Compliant***

Low Power Transceivers

Frequency (MHz) Min.	Max.	I Supply (mA)	Supply Voltage	Package	Digi-Key Part No .	Price Each 1	25	100
1,800	2,700	23	1.8-5.25	24-SSOP	LT5500EGN-ND	6.38	4.55	3.75
70	400	25	1.8-5.25	24-SSOP	LT5502EGN-ND	10.25	6.81	5.36
70	400	25	1.8-5.25	24-SSOP	LT5502EGN#PBF-ND* ***NEW!***	10.25	6.81	5.36
1,200	2,700	11.9	1.8-5.25	20-TSSOP	LT5503EFE-ND	8.25	5.48	4.13
40	500	26.5	1.8-5.25	16-QFN	LT5506EUF-ND	6.63	4.73	3.90
40	500	26.5	1.8-5.25	16-QFN	LT5506EUF#PBF-ND* ***NEW!***	6.63	4.73	3.90

***** RoHS Compliant***

Power Amplifier Controllers

Frequency (MHz) Min.	Max.	Control Loop Dynamic (KHz)	Supply Range (dB)	Voltage	Package	Digi-Key Part No.	Price Each 1	25	100
850	2,000	250	40	2.7-6	8-MSOP	LTC1758-1EMS8-ND	3.38	2.25	1.70
850	2,000	250	40	2.7-6	10-MSOP	LTC1758-2EMS-ND	3.50	2.33	1.79
850	2,000	370	40	2.7-6	8-MSOP	LTC1957-1EMS8-ND	3.38	2.25	1.70
850	2,000	370	40	2.7-6	10-MSOP	LTC1957-2EMS-ND	3.50	2.33	1.75
300	2,700	450	45	2.7-6	TSOT-23-6	LTC4400-1ES6-ND	2.73	1.81	1.37
300	2,000	450	45	2.7-6	8-MSOP	LTC4400-2EMS8-ND	3.25	2.32	1.91
300	2,700	250	45	2.7-6	TSOT-23-6	LTC4401-1ES6-ND	2.73	1.81	1.37
300	2,000	250	45	2.7-6	8-MSOP	LTC4401-2EMS8-ND	3.25	2.32	1.91

OEM Modules

FCC Pre-Certified OEM Products

All units below are pre-approved with the FCC to allow immediate integration and sale in most OEM product.

Handheld Transmitter:
Compact 8-button handheld remote is capable of 100+ feet transmission ranges. The transmission can be decoded using a standard decoder IC, microcontroller, or matching Linx function module. Selectable addressing provides security and allows distinct TX/RX relationships.

Compact Handheld Transmitter:
Compact 8-buttons handheld remote is capable of up to 150 feet transmission range. The keypad and labeling can be modified to meet specific customer requirements. Can create up to 1,024 distinct transmitter-receiver relationships.

Long-Range Handheld Transmitter:
Compact 8-buttons handled remote is capable of up to 300+ feet transmission range. The keypad and labeling can be modified to meet specific customer requirements. Can create up to 1,024 distinct transmitter-receiver relationships. External antenna attached.

Keyfob Transmitter:
This tiny keyfob features outstanding range performance and is configured with 1 to 5 buttons for a variety of OEM applications.

1 to 4 Position Relay Function Module:
Provides 4 latched relay outputs which are capable of switching external AC or DC powered loads up to 5 amps. Selectable addressing.

AC Switch Function Module:
Plugs directly into a wall receptacle and is capable of switching devices at loads up to 1800 watts (15 amps) or 1 HP @ 120VAC.

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each 1	25	100	Linx Part No.
1	Compact Handheld Transmitter	315	CMD-HHCP-315-ND	29.40	26.88	21.95	CMD-HHCP-315
		418	CMD-HHCP-418-ND	29.40	26.88	21.95	CMD-HHCP-418
		433	CMD-HHCP-433-ND	29.40	26.88	21.95	CMD-HHCP-433
	Long-Range Handheld Transmitter	315	CMD-HHLR-315-ND	32.41	29.64	24.95	CMD-HHLR-315
		418	CMD-HHLR-418-ND	32.41	29.64	24.95	CMD-HHLR-418
		433	CMD-HHLR-433-ND	32.41	29.64	24.95	CMD-HHLR-433
2	Handheld Transmitter	315	CMD-HHTX-315-ND	32.03	29.28	24.95	CMD-HHTX-315
		418	CMD-HHTX-418-ND	32.03	29.28	24.95	CMD-HHTX-418
		433	CMD-HHTX-433-ND	32.03	29.28	24.95	CMD-HHTX-433
3	1 to 5 Button FCC Precertified Keyfob Transmitter	315	CMD-KEY5-315-ND	20.60	19.57	17.95	CMD-KEY5-315
		418	CMD-KEY5-418-ND	20.60	19.57	17.95	CMD-KEY5-418
		433	CMD-KEY5-433-ND	20.60	19.57	17.95	CMD-KEY5-433
		315	OTX-315-HH-KF5-MS-ND	18.66	17.73	17.50	OTX-315-HH-KF5-MS
		418	OTX-418-HH-KF5-MS-ND	18.66	17.73	17.50	OTX-418-HH-KF5-MS
		433	OTX-433-HH-KF5-MS-ND	18.66	17.73	17.50	OTX-433-HH-KF5-MS
4	1 to 4 Position Relay Function Module	315	FCTN-RLY4XX-315-ND	59.85	54.72	49.96	FCTN-RLY4XX-315
		418	FCTN-RLY4XX-418-ND	59.85	54.72	49.96	FCTN-RLY4XX-418
		433	FCTN-RLY4XX-433-ND	59.92	54.79	50.01	FCTN-RLY4XX-433
5	AC Switch Function Module - 120VAC	418	FCTN-WALL-418-ND	51.45	47.04	44.95	FCTN-WALL-418

Fig. 1

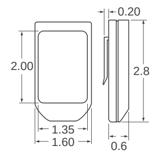

Fig. 2

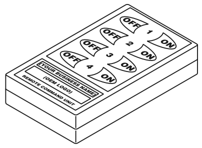

Fig. 3

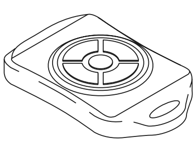

Fig. 4

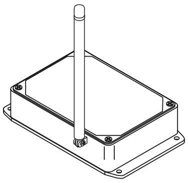

Fig. 5

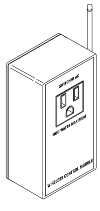

RF Modules / Broadband Amplifiers / Evaluation Kits / Interface ICs

Fig. 1

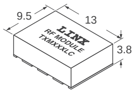

Fig. 2

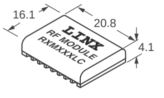

Fig. 3

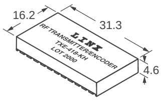

Fig. 4

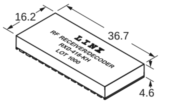

Fig. 5

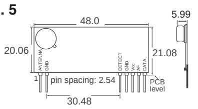

Fig. 6

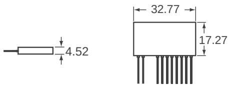

Fig. 7

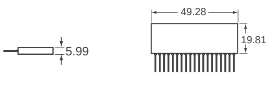

Fig. 8

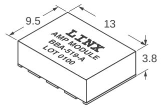

Fig. 9

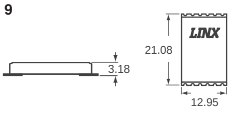

Fig. 10

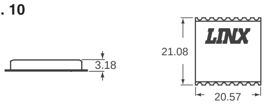

Fig. 11

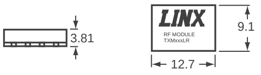

Fig. 12

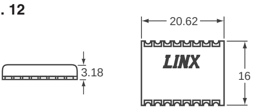

Fig. 13

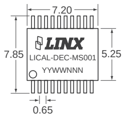

LC Series – Ultra-Compact Low-Cost RF TX/RX Modules: Operating in the 260~470MHz band, these tiny RF modules provide a complete and cost-effective solution for the wireless transfer of serial control and command information over distances in excess of 300 ft. **Tx:** • 2.7 ~ 5.2VDC range • 1.5 mA average • +3 dbm output • 5Kbps maximum data rate • Low harmonics **Rx:** • 2.7 ~ 5.2VDC range • Low power consumption (6mA op., 300µA sleep) • -97 Typical sens. • 5Kbps maximum data rate • Balanced LO for easy certification

KH Series – Transmitter And Receiver Featuring Integrated Encoder/Decoders: This series combines the popular LC TX/RX with an integrated enc./dec. pair. The encoder module accepts up to eight parallel inputs. This allows the direct connection of switches or a microcontroller.

RM Series – Provides a complete TX/RX solution in a compact SIP style module. This series utilizes an advanced SAW based design and FM/FSK modulation and operates in the 260 ~ 470 band. **Tx:** • 5.9 ~ 9.0VDC range • 6.0mA average • +3 dbm output • 10,000Kbps maximum data rate • SIP package **Rx:** • 4.0 ~ 9.0VDC range • 14mA average • -103 typical sensitivity

HP-3 Series – High-Performance, Low-Cost, RF TX/RX Modules: These modules are designed for the popular 902-928MHz band. The modules offer 8 or 256 selectable channels and are capable of transmitting analog and digital information for distances of up to 1000 feet. Available in SIP or SMT pkg. **Tx:** • 8 parallel selectable channels on PO series and 8 parallel 120 serial on PS series • Synthesized architecture • 2.7 ~ 3VDC supply range • Low power (15mA avg. cur.): • 0dbm output power • 100Hz ~ 25Khz analog bandwidth • CTS **Rx:** • 8 parallel selectable channels on PO series and 8 parallel 120 serial on PS series • Synth. architecture • 2.7 ~ 18VDC supply range • Low power (18mA avg. cur.; 50µA powerdown) • 50Kbps maximum data rate • 50Hz ~ 25Khz analog bandwidth • RSSI output • Power-down control

BBA Series – Broadband RF Amplifiers: These amplifiers are well suited to a wide range of amplification and buffering applications including extending the range of Linx's own RF modules (when legally appropriate). The hybrid amps are prematched to 50Ω and require no external RF components. **BBA-322:** • High gain model • 10Mhz ~ 3Ghz broadband operation • +20dB small signal gain at 900MHz • Up to +10 (10mW) Linear output power • 3.8dB noise figure • Operates from a single supply **BBA-519:** • High output model • 10Mhz ~ 4Ghz broadband operation • +18dB Small Signal gain at 900MHz • Up to +17 (50mW) Linear output power • 4.8dB noise figure

ES Series – Housed in a tiny SMD pkg., this series utilizes an advanced FM/FSK-based synth. architecture to provide superior performance and noise immunity when compared to AM/OOK solutions. An outstanding 56Kbps max. data rate and wide-range analog capability make the ES Series equally at home with digital data or analog sources such as audio. A host of useful features including RSSI, PDN, audio ref., LVL ADJ, low-volt. detect and a microprocessor clock source are provided. Operates at 916.48MHz which in North America allows an unlimited variety of applications including data and audio links. Audio 20Hz ~ 28KHz, very low current for long life in battery applications. **Tx:** • Supply voltage: 2.1 ~ 4V • Current: 6.5 ~ 7.5mA • 0dbm output power • Sleep: 90µA. **Rx:** • Supply voltage: 4.5 ~ 5.5V • Current: 5.5 ~ 6.5mA • Sleep: 50µA

LR Series – This receiver is ideal for the wireless transfer of serial data, control or command information in the 260 ~ 470MHz band • Links less than 3000 feet will benefit from a more reliable signal • Rx is Footprint compatible with popular LC-S series • 10 kbps data rate • Range in excess of 3000 feet • SMD package • No external components required (except antenna) • Operating voltage down to 2.7V • 5KHz analog BW • -112dbm receiver sensitivity typical • 5.2mA supply current typical

QS Series – Allows the rapid addition of USB to virtually any device. Housed in a compact SMD pkg., the QS Module provides a complete solution for converting between USB and TTL logic output. • Applications include interfacing Linx RF Modules, MCU's, etc. to a USB interface • 4.4 ~ 6VDC supply • Low current consumption, 26mA • USB Bus or self powered • No external components required (except USB jack)

MS and HS Series – Both the MS and HS Series encoders and decoders are designed for remote control applications. They allow the status of up to 8 buttons or contacts to be securely transferred via a wireless link. The MS Series 24 bit address size makes transmissions highly unique, minimizing the possibility of multiple devices having conflicting addresses. The HS Series uses a highly secure encryption algorithm with a non-repeating code to prevent unauthorized users from replicating the signal. **Features:** • 8 data lines • Low 2.0V ~ 5.5V operating voltage • Low supply current (370µA @ 3V) • Ultra low 0.1µA standby current • Selectable baud rates

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each 1	25	100	Linx Part No.
			LC Series				
1	Transmitter	315	TXM-315-LC-ND	6.90	6.31	5.60	TXM-315-LC
		418	TXM-418-LC-ND	6.90	6.31	5.60	TXM-418-LC
		433	TXM-433-LC-ND	6.90	6.31	5.60	TXM-433-LC
2	Receiver	315	RXM-315-LC-S-ND	13.79	12.61	10.90	RXM-315-LC-S
		418	RXM-418-LC-S-ND	13.79	12.61	10.90	RXM-418-LC-S
		433	RXM-433-LC-S-ND	13.79	12.61	10.90	RXM-433-LC-S
			KH Series				
3	Transmitter	315	TXE-315-KH-ND	9.98	9.12	7.80	TXE-315-KH
		418	TXE-418-KH-ND	9.98	9.12	7.80	TXE-418-KH
		433	TXE-433-KH-ND	9.98	9.12	7.80	TXE-433-KH
4	Receiver	315	RXD-315-KH-ND	15.93	14.56	12.75	RXD-315-KH
		418	RXD-418-KH-ND	15.93	14.56	12.75	RXD-418-KH
		433	RXD-433-KH-ND	15.93	14.56	12.75	RXD-433-KH
			RM Series				
5	Receiver	418	RXM-418-RM-ND	36.66	33.52	28.31	RXM-418-RM
			HP3 Series				
6	Transmitter 8 Channel	900	TXM-900-HP3-PPO-ND	29.45	26.93	23.60	TXM-900-HP3-PPO
	Transmitter 8/120 Channel	900	TXM-900-HP3-PPS-ND	30.33	27.73	24.10	TXM-900-HP3-PPS
7	Receiver 8 Channel	900	RXM-900-HP3-PPO-ND	45.15	41.28	31.70	RXM-900-HP3-PPO
	Receiver 8/120 Channel	900	RXM-900-HP3-PPS-ND	46.03	42.08	32.20	RXM-900-HP3-PPS
			BBA Series				
8	Hi-Gain Broadband RF Amp.	10~3000	BBA-322-A-ND	14.80	14.06	13.50	BBA-322-A
	Hi-Power Broadband RF Amp.	10~4000	BBA-519-A-ND	15.00	14.25	13.95	BBA-519-A
			ES Series				
9	Transmitter	916	TXM-916-ES-ND	13.84	12.66	10.87	TXM-916-ES
10	Receiver	916	RXM-916-ES-ND	17.12	15.65	12.92	RXM-916-ES
			LR Series				
11	Transmitter	315	TXM-315-LR-ND	7.46	6.82	5.95	TXM-315-LR
		418	TXM-418-LR-ND	7.46	6.82	5.95	TXM-418-LR
		433	TXM-433-LR-ND	7.46	6.82	5.95	TXM-433-LR
12	Receiver	315	RXM-315-LR-ND	13.56	12.40	9.80	RXM-315-LR
		418	RXM-418-LR-ND	13.56	12.40	9.80	RXM-418-LR
		433	RXM-433-LR-ND	13.56	12.40	9.80	RXM-433-LR
			QS Series				
12	USB Module	—	SDM-USB-QS-S-ND	14.61	13.36	11.80	SDM-USB-QS-S
			MS Series				
13	Encoder	418	LICAL-ENC-MS001-ND	4.10	3.75	3.16	LICAL-ENC-MS001
	Decoder	418	LICAL-DEC-MS001-ND	4.10	3.75	3.16	LICAL-DEC-MS001
			HS SERIES				
13	Encoder	418	LICAL-ENC-HS001-ND	4.45	4.07	3.43	LICAL-ENC-HS001
	Decoder	418	LICAL-DEC-HS001-ND	4.45	4.07	3.43	LICAL-DEC-HS001

Evaluation Kits

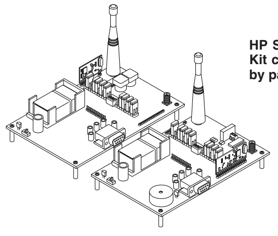

HP Series Shown - Kit contents varies by part number

These kits provide the most complete opportunity to evaluate the Linx module series of your choice and then begin the integration of it into your own design. **Basic Evaluation Kit:** This kit is a quick way to evaluate the field performance of Linx products. The kit does not allow for the level of testing and interface possible with Master Kits but provides a cost-effective starting point. **Master Evaluation/ Development System Kit:** The kits not only allow evaluation of the module series you have chosen, but also speed the development of your own design via on-board prototyping area and breakout headers.

Description	MHz	Digi-Key Part No.	Price Each	Linx Part No.
		Basic Evaluation Kits		
LC Series	315	EVAL-315-LC-S-ND	139.00	EVAL-315-LC-S
	418	EVAL-418-LC-S-ND	139.00	EVAL-418-LC-S
	433	EVAL-433-LC-S-ND	139.00	EVAL-433-LC-S
SC Series	916	EVAL-916-SC-P-ND	199.00	EVAL-916-SC
KH Series	315	EVAL-315-KH-ND	149.00	EVAL-315-KH
	418	EVAL-418-KH-ND	149.00	EVAL-418-KH
	433	EVAL-433-KH-ND	149.00	EVAL-433-KH
ES Series	916	EVAL-916-ES-ND	179.00	EVAL-916-ES
Keyfob Series	418	EVAL-418-KEY5-ND	119.00	EVAL-418-KEYS
HHCP Series	418	EVAL-418-CP-ND	129.00	EVAL-418-CP
HHLR Series	418	EVAL-418-HHLR-ND	129.00	EVAL-418-HHLR
LR Series	315	EVAL-315-LR-ND	139.00	EVAL-315-LR
	418	EVAL-418-LR-ND	139.00	EVAL-418-LR
	433	EVAL-433-LR-ND	139.00	EVAL-433-LR
		Master Evaluation / Development System Kits		
RM Series	418	MDEV-418-RM-ND	249.00	MDEV-418-RM
	433	MDEV-433-RM-ND	249.00	MDEV-433-RM
HP-3 Series	900	MDEV900HP3PPSRS23-ND	299.00	MDEV-900-HP3-PPS-RS232
ES Series	916	MDEV-916-ES-ND	299.00	MDEV-916-ES
SC-P Series	916	MDEV-916-SC-P-ND	299.00	MDEV-916-SC-P
SC-S Series	916	MDEV-916-SC-S-ND	299.00	MDEV-916-SC-S
QS Series	—	MDEV-USB-QS-ND	129.00	MDEV-USB-QS
MS Series	418	MDEV-LIC-MS-ND MDEV-418-HH-KF-MS-ND ***NEW!***	249.00 170.57	MDEV-LIC-MS MDEV-418-HH-KF-MS
HS Series	418	MDEV-LIC-HS-ND	299.00	MDEV-LIC-HS

RP-SMA Connectors for OEM Antennas

Reverse Polarity SMA Connectors:

Reverse-polarity connectors are designed to meet FCC Part 15 requirements and are ideal for any application that requires a reliable non-standard interface connection. The reverse-polarity design prevents damage and will not mate with standard connectors if accidentally connected.

Fig. 1

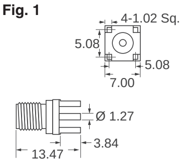

Fig. 2

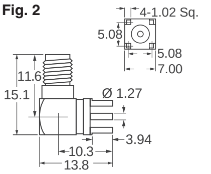

Fig. 3

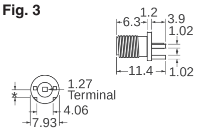

* .031-CONREVSMA003.031
.062-CONREVSMA003.062

Fig. 4

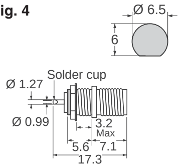

Fig. 5

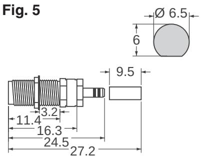

(After Assembly)

Fig. 6

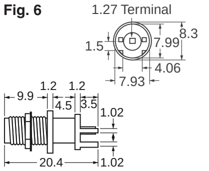

Fig. 7

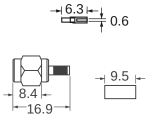

Fig. 8

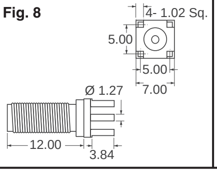

Fig. 9

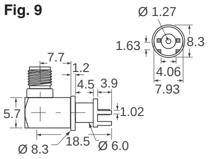

Fig. 10

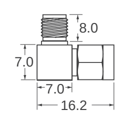

Fig. 11

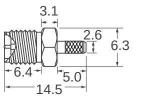

Fig. 12

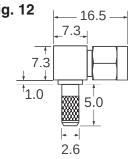

Fig. 13 ***NEW!***

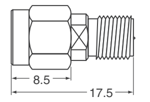

Fig.	Description	Digi-Key Part No.	Price Each 1	25	100	200	Linx Part No.
1	PCB Mount Connector	CONREVSMA001-ND	3.13	2.87	2.21	2.15	CONREVSMA00
2	Right Angle PCB Mount Connector	CONREVSMA002-ND	5.48	5.01	3.87	3.76	CONREVSMA002
3	Card Edge Mount Connector for Board Thickness .031" (.79mm)	CONREVSMA003.031-ND	3.75	3.43	2.65	2.57	CONREVSMA003.031
	Card Edge Mount Connector for Board Thickness .062" (1.57mm)	CONREVSMA003.062-ND	3.75	3.43	2.65	2.57	CONREVSMA003.062
4	Front Mount Bulkhead Receptacle	CONREVSMA004-ND	3.54	3.24	2.50	2.43	CONREVSMA004
5	Bulkhead Crimp Jack-Captive Contact	CONREVSMA005-ND	5.88	5.38	4.16	4.04	CONREVSMA005
	Bulkhead Crimp Jack-Captive Contact with 8.5" (215.90mm) Contact	CONREVSMA005C08.5-ND	7.82	7.16	5.54	5.37	CONREVSMA005-C08.5
6	Card Edge Multi-Mount Connector	CONREVSMA006.062-ND	5.48	5.01	3.87	3.76	CONREVSMA006.062
7	Cable End Connector for RG-174	CONREVSMA007-ND	5.22	4.77	3.69	3.58	CONREVSMA007
8	Long PCB Mount Connector	CONREVSMA008-ND	3.75	3.43	2.65	2.57	CONREVSMA008
9	Right Angle Card Edge Multi-Mount Connector	CONREVSMA009-ND	4.04	3.70	2.86	2.78	CONREVSMA009
10	Right Angle Plug-Jack	CONREVSMA010-ND	4.13	3.72	3.40	3.12	CONREVSMA010
11	Cable End Crimp Jack	CONREVSMA011-ND	5.22	4.77	3.69	3.58	CONREVSMA011
12	Right Angle Cable End Connector for RG-174	CONREVSMA012-ND	4.03	3.63	3.36	3.08	CONREVSMA012
13	SMA Male to RPSMA Female Adapter	ADP-SMAM-RPSF-ND ***NEW!***	5.88	5.38	4.16	—	ADP-SMAM-RPSF
Crimper Kit for RG58/59/62		CTK-58-01-ND	119.00	—	—	—	CTK-58-01
Crimper Kit for RG58/59/62, RG174/179		CTK-174-01-ND	124.00	—	—	—	CTK-174-01

GPS Antennas

UC Series: The UC Series offers outstanding value in a compact form factor. A wide operating voltage, temperature range and compact housing with dual mounting options suit the UC to a wide variety of cost-sensitive applications.

SE Series: This sleekly housed active GPS antenna sets a new standard of value and performance. The antenna operates from 2.5 to 5.5V and consumes as little as 4mA. The unit's rugged housing is fully weatherized and may be mounted via its magnetic base or integral screw receptacles.

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	High Performance GPS with SMA	1575.42	ANT-GPS-UC-SMA-ND	26.69	24.40	21.51	ANT-GPS-UC-SMA
2	High Performance GPS with SMA	1575.42	ANT-GPS-SE-SMA-ND	37.54	34.32	27.76	ANT-GPS-SE-SMA

Fig. 1

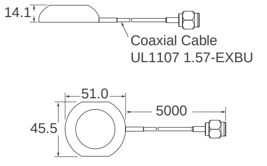

Fig. 2

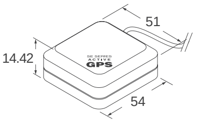

Magnetic Mount Antennas

Mag-1 Magnetic Bases: Available in three base diameters, each MAG-1 Series base features a powerful magnet for reliable mounting on metal surfaces. They also feature a soft, rubber protective cover to help protect painted surfaces, such as those on automobiles. The base accepts a diverse range of antenna element styles and frequencies.

Mag-1 Antenna Elements: These cosmetically attractive elements are designed to fit MAG-1 Series bases. Ideal for mobile and cellular systems, they are available in a range of styles and center frequencies and are intended to offer outstanding performance and durability even in harsh environments.

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	50mm MAG-1 Magnetic Base	—	ANT-MAG-B50-RPS-ND	5.78	5.28	4.40	ANT-MAG-B50-RPS
	66mm MAG-1 Magnetic Base	—	ANT-MAG-B66-RPS-ND	6.49	5.94	4.95	ANT-MAG-B66-RPS
	85mm MAG-1 Magnetic Base	—	ANT-MAG-B85-RPS-ND	7.23	6.61	5.50	ANT-MAG-B85-RPS
2	Dual-Band Whip-Element	916, 1.7~1.8GHz	ANT-ELE-S01-008-ND	3.41	3.12	2.90	ANT-ELE-S01-008
3	Whip-Element	916	ANT-ELE-S01-005-ND	2.92	2.56	2.25	ANT-ELE-S01-005
4	High Gain Whip-Element	916	ANT-ELE-S01-006-ND	3.52	3.08	2.70	ANT-ELE-S01-006
5	Short Whip-Element	916	ANT-ELE-S01-010-ND	2.86	2.51	2.22	ANT-ELE-S01-010
6	Stub Element	2.4GHz	ANT-ELE-S01-011-ND	2.82	2.47	2.20	ANT-ELE-S01-011

Fig. 1

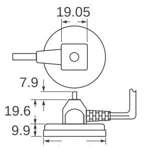

B50 = 50mm
B66 = 66mm
B85 = 85mm

(Cable: 13.1 ft. - RG-174-RP-SMA)

Fig. 2

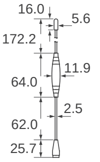

Fig. 3

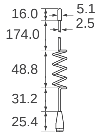

Fig. 4

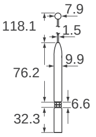

Fig. 5

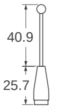

Fig. 6

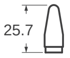

Yagi Antennas

Antenna Factor offers Yagi antennas in models covering frequencies from 400 to 2.4GHz. The antennas are designed for long-distance directional communication and can greatly enhance the performance of RF links, such as WLAN and WIFI.

Made of stainless steel and featuring sturdy mast mounts, these rugged antennas are constructed to withstand the stress of long-term use. All antennas are designed for 50Ω system matches with maximum inputs of 100W.

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	418MHz 5-Element Yagi	418	ANT-418-YG5-N-ND	84.35	77.12	69.95	ANT-418-YG5-N
2	916MHz 5-Element Yagi	916	ANT-916-YG5-N-ND	84.35	77.12	69.95	ANT-916-YG5-N
3	2.4GHz 6-Element Yagi	2442	ANT-2.4-YG6-N-ND	84.35	77.12	69.95	ANT-2.4-YG6-N
4	2.4GHz 12-Element Yagi	2442	ANT-2.4-YG12-N-ND	120.23	109.92	89.96	ANT-2.4-YG12-N

Fig. 1

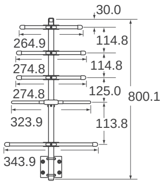

Fig. 2

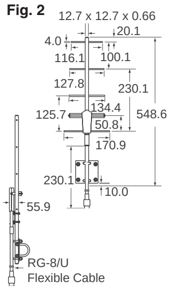

Fig. 3

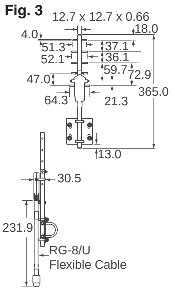

Fig. 4

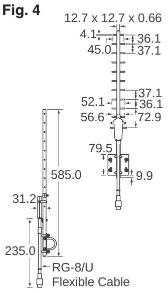

Antennas

Antennas are a critical and often neglected factor in determining the range and reliability of any wireless link. Antenna Factor antennas are ideal for achieving maximum performance and cost efficiency from most discrete or modular designs. All antennas are designed to meet FCC and international standards.

PW Series: Designed for permanent attachment, the PW series of 1/4-wave whip antenna is designed to offer outstanding performance in a rugged, cost-effective Part 15-compliant package. The antenna is attached by securing its base through a 1/4" hole in the product's package. The antenna is fed through the base via RG-174 (7" standard length) coax which may be soldered directly to a PCB or attached via a connector.

PML Antennas: Designed for permanent attachment, PML-Series 1/2-wave whips give outstanding performance in a rugged and cost-effective package. An internal, center-fed element eliminates the need for a groundplane. Can be attached by securing it with a nut or by threading it into a PEM-style insert. The antenna is fed through the base with RG-174 coax cable. Standard cable length is 8.5".

RH Series - Reduced Height: Significantly smaller than our larger whips, the RH series is ideally suited for products where cosmetic or functional requirements dictate a compact, aesthetically pleasing antenna.

CW Series: The CW series antennas feature an FCC Part 15-compliant Reverse Polarity SMA connector allowing for easy field replacement. These antennas deliver outstanding performance in a rugged and cosmetically attractive package.

HD Series - Reduced Height: This reduced height 1/4-wave antenna is ready for years of abuse thanks to a highly flexible internal helical which is over-molded with a heavy-duty protective jacket. The HD series is an excellent choice for outdoor application or for use in adverse environments where the antenna must resist shock, harsh weather and tampering.

RCR Antennas: Ideal for products requiring an attractive yet compact antenna in a right-angle form factor. The 1/4-wave antenna features a Part 15-compliant RP-SMA connection which mates with all Antenna Factor PCB and chassis RP-SMA connectors. Very low VSWR, Omni Directional, RA, use with plastic or metal enclosures.

RCS Series - Ultra-Compact Right Angle: The RCS series is ideally suited for products requiring an attractive yet compact antenna in a right-angle form factor.

RCL Series - Compact Right Angle: Similar to the RCS series but in a larger form factor. It is useful in products where additional height above the product's case is needed or a slightly wider operational bandwidth is desired. The 2.4GHz version has a center-fed 1/2 wave element with internal ground reference.

RCT Series: The RCT 1/2-wave 2.4GHz antenna delivers outstanding performance and maximum orientation flexibility in a compact physical package. The antennas innovative articulating base allows the antenna to tilt and swivel for optimum orientation by the product's end user. The antenna mounts quickly via an RP-SMA connector.

LP Series: LP series antennas are low-cost, reduced height, permanently attached 1/4-wave whips. They are ideal for applications requiring a rugged, cosmetically attractive, yet cost-effective antenna solution. The antennas are easily secured directly to a user's PCB via a single screw.

RA Series: The RA series offers maximum mounting and orientation flexibility in a cost-effective reduced height package. The antennas innovative base allows a wide range of horizontal and vertical motions which enhances versatility for both the designer and the customer. The antenna mounts quickly to a PCB via a single screw and meets all Part 15 Requirements.

SP Series - The "Splatch": The Splatch uses a grounded line technique to extract outstanding performance from a tiny SMT element. Unlike many compact antennas the Splatch is highly immune to proximity effects making it an ideal choice for hand-held applications for remote controls, pagers and alert devices. This unique antenna is designed for hand or reflow mounting directly to a product's circuit board.

JJB Antennas: The JJB-Series packs near the performance of a conventional monopole into an incredibly compact 7mm-diameter package. These antennas are ideal for any OEM application requiring a compact, cosmetically attractive, low-cost antenna solution. The antenna features a through-hole feedline which attaches directly to a user's PCB. Internal or external mounting is possible.

CHP Antennas: One of the world's smallest, high-performance 2.4GHz. Chip Antennas. Ideal for all 2.4GHz applications including Bluetooth, 802.11, home RF, ZigBee and other popular and emerging standards. Uses an advanced multilayer LTCC Technology and a proprietary hybrid spiral element to achieve size and performance characteristics superior to other designs. Fully compatible with hand and reflow attachment processes.

HE Series - Helical: Designed for direct PCB mounting. HE's compact size makes them ideal for internal concealment inside a product's housing. The wire diameter and coil spacing are optimized for wider than typical bandwidth.

CHP Kit: Allows for rapid evaluation of Antenna Factor's tiny ANT-2.45-CHP antenna. As one of the smallest and most efficient chip antennas in the world it is ideal for all 2.4 GHz applications including 802.11, Bluetooth, Zigbee and Home RF. Includes a reference jig which allows for immediate assessment of the antennas performance and five additional antenna samples for use in a customer's design.

RAH Kit: Ideal for products requiring ultra-compact right angle antenna

HW Kit: Low cost, outstanding VSWR antennas. These have an internal counterpoise.

Fig. 1

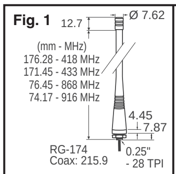

Fig. 2

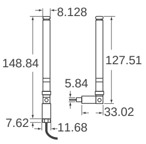

Fig. 3

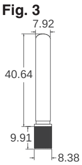

Fig. 4

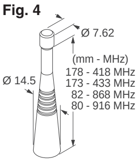

Fig. 5

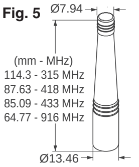

Fig. 6

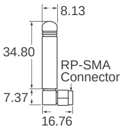

Fig. 7

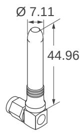

Fig. 8

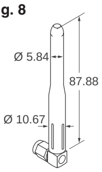

Fig. 9

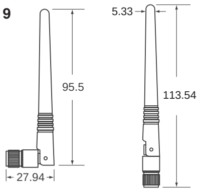

Fig. 10

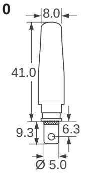

Fig. 11

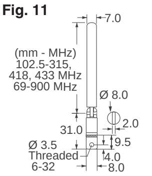

Fig. 12

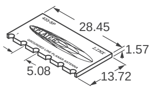

Fig. 13

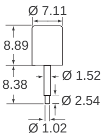

Fig. 14

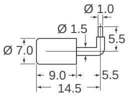

Fig. 15

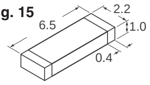

Fig. 16

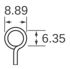

Fig. 17

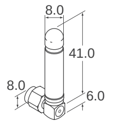

Fig. 18

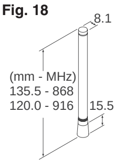

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	Permanent Mount 1/4 Wave Whip	418	ANT-418-PW-QW-ND	6.83	6.24	5.07	ANT-418-PW-QW
		433	ANT-433-PW-QW-ND	6.70	6.13	4.97	ANT-433-PW-QW
		868	ANT-868-PW-QW-ND	6.56	6.00	4.84	ANT-868-PW-QW
		916	ANT-916-PW-QW-ND	8.37	7.65	6.21	ANT-916-PW-QW
2	1/2 Wave Whip with RG-178 Cable	916	ANT-916-PML-ND	7.61	6.96	5.66	ANT-916-PML
3	RP-SMA Reduced Height 1/4 Wave Whip	315	ANT-315-CW-RH-ND	6.32	5.78	4.36	ANT-315-CW-RH
		418	ANT-418-CW-RH-ND	6.32	5.78	4.36	ANT-418-CW-RH
		433	ANT-433-CW-RH-ND	6.32	5.78	4.36	ANT-433-CW-RH
		916	ANT-916-CW-RH-ND	6.32	5.78	4.36	ANT-916-CW-RH
4	RP-SMA 1/4 Wave Whip	418	ANT-418-CW-QW-ND	7.88	7.20	5.74	ANT-418-CW-QW
		433	ANT-433-CW-QW-ND	7.70	7.04	5.61	ANT-433-CW-QW
		868	ANT-868-CW-QW-ND	7.53	6.88	5.48	ANT-868-CW-QW
		916	ANT-916-CW-QW-ND	7.35	6.72	5.36	ANT-916-CW-QW
5	RP-SMA Reduced Height 1/4 Wave Whip	315	ANT-315-CW-HD-ND	7.61	6.96	5.50	ANT-315-CW-HD
		418	ANT-418-CW-HD-ND	7.61	6.96	5.50	ANT-418-CW-HD
		433	ANT-433-CW-HD-ND	7.61	6.96	5.50	ANT-433-CW-HD
		916	ANT-916-CW-HD-ND	7.61	6.96	5.50	ANT-916-CW-HD
6	1/4 Wave Whip RA RP-SMA	916	ANT-916-CW-RCR-ND	6.39	5.84	5.10	ANT-916-CW-RCR
7	1/4 Wave Whip Right Angle	315	ANT-315-CW-RCS-ND	6.46	5.91	4.99	ANT-315-CW-RCS
		418	ANT-418-CW-RCS-ND	6.46	5.91	4.99	ANT-418-CW-RCS
		433	ANT-433-CW-RCS-ND	6.46	5.91	4.99	ANT-433-CW-RCS
	RP-SMA Right Angle	916	ANT-916-CW-RCS-ND	6.46	5.91	5.25	ANT-916-CW-RCS
		2.4GHz	ANT-2.4-CW-RCS-ND	6.46	5.91	5.25	ANT-2.4-CW-RCS
8	1/4 Wave Whip	916	ANT-916-CW-RCL-ND	7.04	6.44	5.50	ANT-916-CW-RCL
	1/2 Wave Whip RP-SMA	2.4GHz	ANT-2.4-CW-RCL-ND	7.04	6.44	5.50	ANT-2.4-CW-RCL
9	1/2 Wave Whip RP-SMA	2.4GHz	ANT-2.4-CW-RCT-RP-ND	8.47	7.75	6.50	ANT-2.4-CW-RCT-RP
10	Permanent Mount Reduced Height 1/4 Wave Whip	315	ANT-315-PW-LP-ND	2.03	1.86	1.79	ANT-315-PW-LP
		418	ANT-418-PW-LP-ND	2.03	1.86	1.79	ANT-418-PW-LP
		433	ANT-433-PW-LP-ND	2.03	1.86	1.79	ANT-433-PW-LP
		916	ANT-916-PW-LP-ND	2.03	1.86	1.79	ANT-916-PW-LP
11	Permanent Mount Swivel Angle 1/4 Wave Whip	315	ANT-315-PW-RA-ND	3.45	3.11	2.89	ANT-315-PW-RA
		418	ANT-418-PW-RA-ND	3.45	3.11	2.89	ANT-418-PW-RA
		433	ANT-433-PW-RA-ND	3.45	3.11	2.89	ANT-433-PW-RA
		916	ANT-916-PW-RA-ND	3.45	3.11	2.89	ANT-916-PW-RA
12	Planar Antenna (SMT)	315	ANT-315-SP-ND	2.08	1.82	1.75	ANT-315-SP
		418	ANT-418-SP-ND	2.08	1.82	1.75	ANT-418-SP
		433	ANT-433-SP-ND	2.08	1.82	1.75	ANT-433-SP
		868	ANT-868-SP-ND	2.08	1.82	1.75	ANT-868-SP
		916	ANT-916-SP-ND	2.08	1.82	1.75	ANT-916-SP
13	JJB Permanent Ultra-Miniature	916	ANT-916-JJB-ST-ND	1.78	1.56	1.45	ANT-916-JJB-ST
14	JJB Permanent Ultra-Miniature	916	ANT-916-JJB-RA-ND	1.78	1.56	1.45	ANT-916-JJB-RA
15	Ultra-Compact Chip Antenna	2.45GHz	ANT-2.45-CHPCT-ND*	1.51	1.38	1.34	ANT-2.45-CHP
			ANT-2.45-CHPTR-ND†	3420.00/3,000			ANT-2.45-CHP
16	Helical Through-Hole Antenna	315	ANT-315-HETH-ND	.88	.75	.67	ANT-315-HETH
		418	ANT-418-HETH-ND	.88	.75	.67	ANT-418-HETH
		433	ANT-433-HETH-ND	.88	.75	.67	ANT-433-HETH
		916	ANT-916-HETH-ND	.88	.75	.67	ANT-916-HETH
17	1/4 Wave Whip Right Angle	315	ANT-315-CW-RAH-ND	8.47	7.75	6.20	ANT-315-CW-RAH
		418	ANT-418-CW-RAH-ND	8.47	7.75	6.20	ANT-315-CW-RAH
		433	ANT-433-CW-RAH-ND	8.47	7.75	6.20	ANT-433-CW-RAH
18	1/2 Wave Whip RP-SMA	868	ANT-868-CW-HW-ND	8.49	7.76	6.25	ANT-868-CW-HW
		916	ANT-916-CW-HW-ND	8.49	7.76	6.25	ANT-916-CW-HW
Evaluation Kit for CHP Antenna			AEK-2.45-CHP-ND	18.95	—	—	AEK-2.45-CHP

*Cut Tape †Tape and Reel

Surface Mount Antennas

MHW Series: This antenna style provides a clever solution to the unique needs of difficult environments such as a vehicle. Designed to mount directly onto non-conductive interior surfaces such as wallboard, windows or a rear-view mirror, these compact antennas are easily concealed, minimizing potential theft. **HDP Series:** A compact, center-fed antenna that achieves efficient operation at either or both of two frequency bands. Its durable, unobtrusive housing attaches permanently with integral adhesive to flat, non-conductive surfaces such as wallboard. **VDP Series:** Similar to the HDP Series but the cable enters from the bottom to facilitate vertical orientation. Also, this compact, center-fed antenna that achieves efficient operation at any or all of three frequency bands. Attaches permanently with integral adhesive to flat non-conductive surfaces. **DSK Series:** Dual band, low profile antenna for indoor and outdoor use.

Fig.	Description	Frequency (MHz)	Digi-Key Part No.	Price Each 1	25	100	Antenna Factor Part No.
1	Compact Center-Fed Dipole	418	ANT-418-MHW-RPS-S-ND	9.94	8.70	7.94	ANT-418-MHW-RPS-S
		433	ANT-433-MHW-RPS-S-ND	9.94	8.70	7.94	ANT-433-MHW-RPS-S
		916	ANT-916-MHW-RPS-S-ND	9.94	8.70	7.94	ANT-916-MHW-RPS-S
2	Dual-Band Surface Mount	860~960,1770~1880	ANT-DB1-HDP-RPS-ND	8.07	7.38	6.75	ANT-DB1-HDP-RPS
3	Tri-Band Surface Mount	860~960,1770~1880, 2.4GHz	ANT-DB1-VDP-RPS-ND	9.68	8.47	7.44	ANT-DB1-VDP-RPS
—	Dual-Band Low Profile	916, 2.45GHz	ANT-DB2-DSK-RPS-ND	23.00	21.03	19.35	ANT-DB2-DSK-RPS
		916, 2.45GHz	ANT-DB2-DSK-SMA-ND	23.00	21.03	19.35	ANT-DB2-DSK-SMA

Fig. 1

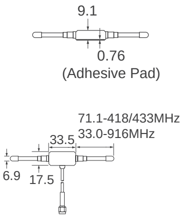

Fig. 2

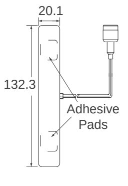

Fig. 3

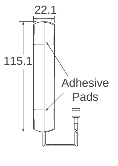

MaxStream

Stand-Alone Radio Modems

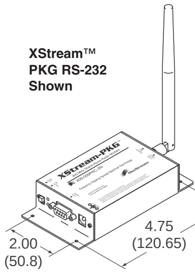

XStream™
PKG RS-232
Shown

MaxStream stand-alone radio modems were designed to provide end users with an easy-to-install wireless serial communication link.

Features: • Plug and communicate (no configuration required) • Transparent operation supports existing software and systems • Retries and acknowledgements for guaranteed packet delivery • RS-232/422/485, Ethernet, and USB protocol and multi-drop bus support • Low power modes for current consumption as low as 1mA • Support for multiple data formats (7/8 bits, Even/Odd/No Parity) • Selectable power outputs

Includes: • Stand-Alone Radio Modem • CD (software and documentation) • 1/2 wave antenna • Serial loopback adapter • NULL modem adapter (male-to-male) • NULL modem adapter (female-to-female) • Male DB-9 to RJ-45 adapter • Female DB-9 to RJ-45 adapter • Power adapter • 9V battery adapter • RS-232 cable (6')

Frequency	Power Output	RF Data Rate (Baud)	Connection Type	Digi-Key Part No.	Price Each	MaxStream Part No.
900 MHz	1Watt	115K	RS-232	XT09-PKI-RA-ND	299.00	XT09-PKI-RA
900 MHz	1Watt	115K	USB	XT09-PKC-UA-ND ***NEW!***	299.00	XT09-PKC-UA
900 MHz	100mW	9600	RS-232	X09-009PKC-RA-ND	250.00	X09-009PKC-RA
900 MHz	100mW	19.2K	RS-232	X09-019PKC-RA-ND	250.00	X09-019PKC-RA
2.4 GHz	50mW	9600	RS-232	X24-009PKC-RA-ND	199.00	X24-009PKC-RA
2.4 GHz	50mW	19.2K	RS-232	X24-019PKC-RA-ND	199.00	X24-019PKC-RA
900 MHz	100mW	9600	USB	X09-009PKC-UA-ND	250.00	X09-009PKC-UA
900 MHz	100mW	19.2K	USB	X09-019PKC-UA-ND	250.00	X09-019PKC-UA
2.4 GHz	50mW	9600	USB	X24-009PKC-UA-ND	199.00	X24-009PKC-UA
2.4 GHz	50mW	19.2K	USB	X24-019PKC-UA-ND	199.00	X24-019PKC-UA
900 MHz	100mW	9600	Ethernet	X09-009PKC-EA-ND	350.00	X09-009PKC-EA
900 MHz	100mW	19.2K	Ethernet	X09-019PKC-EA-ND	350.00	X09-019PKC-EA
900 MHz	4mW	38.4K	RS-232	XC09-038PKC-RA-ND ***NEW!***	89.00	XC09-038PKC-RA
900 MHz	4mW	38.4K	USB	XC09-038PKC-UA-ND ***NEW!***	89.00	XC09-038PKC-UA

Wireless Development Kits

Development Kit Features: Plug-and-communicate (default mode - no configuration required). True peer to peer network (no need to configure a "Master" radio) • Transparent mode supports existing software applications and legacy systems • Addressing capabilities provide for point-to-point and point-to-multipoint networks • Uses standard AT commands and/or fast binary commands for changing parameters • Native RS485/422 (multi-drop-bus) protocol support. Retry and acknowledgements of packets • Provides guaranteed delivery of critical packets in difficult environments • Multiple low power modes including shutdown pin, cyclic sleep and serial port sleep • Signal strength register for link quality monitoring and debugging

XStream™ Development Kits Include: • XStream wireless module with an integrated wire antenna • XStream Wireless module with 1/2 Wave dipole antenna • (2) RS-232/422/485 interface boards • CD (X-CTU™ software and documentation) • Serial loopback adapter • NULL modem adapter (male-to-male) • NULL modem adapter (female-to-female) • Male DB-9 to RJ-45 adapter • Female DB-9 to RJ-45 adapter • (2) Power adapters • 9V battery adapter • (2) RS-232 cables (6')

***9XCite™ Development Kits Include*:** • XCite wireless module with an integrated wire antenna • XCite wireless module with 1/2 wave dipole antenna • (2) RS-232 PC serial interface boards • (2) DSub-9 serial cables • (2) 9V 400mA power supplies • 9V battery clip adapter • Serial loopback adapter • NULL modem adapter (male-to-male) • NULL modem adapter (female-to-female) • X-CTU test/config. utility software (EXE file)

***XTend™ Development Kits Include*:** • (2) XTend OEM RF modules with 1/2 wave dipole antennas • (2) RS-232 PC serial interface boards • (2) DSub-9 serial cables • (2) 9V 400mA power supplies • 9V battery clip adapter • Serial loopback adapter • NULL modem adapter (male-to-male) • NULL modem adapter (female-to-female) • X-CTU test/config. utility software

Frequency	Power Output	RF Data Rate (Baud)	Digi-Key Part No.	Price Each	MaxStream Part No.
XStream Development Kits					
900 MHz	100mW	9600	X09-009-DK-ND	409.00	X09-009-DK
900 MHz	100mW	19.2K	X09-019-DK-ND	409.00	X09-019-DK
2.4 GHz	50mW	9600	X24-009-DK-ND	409.00	X24-009-DK
2.4 GHz	50mW	19.2K	X24-019-DK-ND	409.00	X24-019-DK
9XCite Development Kits					
900 MHz	5mW	9600	XC09-009-DK-ND	149.00	XC09-009-DK
900 MHz	5mW	38.4K	XC09-038-DK-ND	149.00	XC09-038-DK
XTend Development Kits					
900 MHz	1 Watt	115K	XT09-DK-ND	499.00	XT09-DK

Wireless OEM Modules

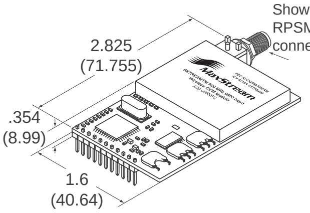

Shown with RPSMA connector

XStream™, XCite™ and XTend™ Wireless OEM Modules were designed to provide product designers with a transparent and easy to design-in wireless serial communication link.

Features: • Plug-and-communicate (no configuration required) • Transparent operation supports existing software and systems • 5V CMOS level serial interface (configurable interface baud rate) • XON/XOFF or hardware flow control • Support for multiple data formats (7/8/9 bits, Even/Odd/No Parity) • Low power modes down to 10µA

***XStream:* Range:** • Up to 1500 feet indoor/urban • Up to 7 miles line-of-sight with dipole • Up to 20 miles line-of-sight with high gain • Allows up to 7 FHSS (frequency hopping spread spectrum) pairs to operate in close proximity • Board size: 1.6" (40.64mm) x 2.825" (71.755mm) • -110dBm receiver sensitivity **Power:** 5VDC supply voltage

***XCite:* Range:** • 300 feet indoor/urban • 1000 feet line-of-sight with dipole • Allows up to 7 FHSS (frequency hopping spread spectrum) pairs to operate in close proximity • -108dBm receiver sensitivity • Board size: 1.6" (40.64mm) x 2.825" (71.755mm) **Power:** 2.85VDC to 5.50VDC

***XTend:* Range:** • Up to 3,000 feet indoor/Urban • Up to 14 miles line-of-sight with dipole • Up to 40 miles line-of-sight with high gain • Allows up to 10 FHSS (frequency hopping spread spectrum pairs to operate in close proximinity) • -110dBm receiver sensitivity • Board size 1.456: (36.98mm) x 2.402" (61mm) **Power:** 2.8 to 5.5VDC

Frequency	Power Output	RF Data Rate (Baud)	Connector/ Antenna Type	Digi-Key Part No.	Price Each	MaxStream Part No.
XStream Modules						
900 MHz	100mW	9600	RPSMA	X09-009NSC-ND	150.00	X09-009NSC
900 MHz	100mW	19.2K	RPSMA	X09-019NSC-ND	150.00	X09-019NSC
900 MHz	100mW	9600	3" Wire	X09-009WNC-ND	138.00	X09-009WNC
900 MHz	100mW	19.2K	3" Wire	X09-019WNC-ND	138.00	X09-019WNC
2.4 GHz	50mW	9600	RPSMA	X24-009NSC-ND	99.00	X24-009NSC
2.4 GHz	50mW	19.2K	RPSMA	X24-019NSC-ND	99.00	X24-019NSC
2.4 GHz	50mW	9600	3" Wire	X24-009WNC-ND	95.00	X24-009WNC
2.4 GHz	50mW	19.2K	3" Wire	X24-019WNC-ND	95.00	X24-019WNC
XCite Modules						
900 MHz	5mW	9600	3" Wire	XC09-009WNC-ND	42.56	XC09-009WNC
900 MHz	5mW	38.4K	3" Wire	XC09-038WNC-ND	42.56	XC09-038WNC
900 MHz	5mW	9600	RPSMA	XC09-009NSC-ND	44.80	XC09-009NSC
900 MHz	5mW	38.4K	RPSMA	XC09-038NSC-ND	44.80	XC09-038NSC
XTend Modules						
900 MHz	1 Watt	115K	RPSMA	XT09-SI-ND	179.00	XT09-SI
900 MHz	1 Watt	115K	MMCX	XT09-MI-ND	179.00	XT09-MI

NEW! XBee™ and XBee-PRO™ Wireless Modules

XBee and XBee-PRO Wireless Modules were designed to provide all the benefits of low-power advanced networking in a low-cost solution that dramatically reduces time-to-market. In addition, the small form factor saves valuable board space.

Features: • Plug and communicate (No configuration required) • Retries and acknowledgements for guaranteed packet delivery • Uses standard AT commands for changing parameters • Low power modes down to 10µA

Development Kit Includes: • (2) XBee-PRO Modules with wire and U.FL • (3) XBee Modules with each antenna option • RPSMA 1/2 wave antenna • Cables • Connectors • XCTU Software • 9V clip and adaptor

Frequency	Power Output	RF Data Rate (Baud)	Connection / Antenna Type	Digi-Key Part No.	Price Each	MaxStream Part No.
XBee Modules						
2.4 GHz	1mW	250K	Whip Antenna	XB24-AWI-001-ND	23.20	XB24-AWI-001
2.4 GHz	1mW	250K	Chip Antenna	XB24-ACI-001-ND	23.20	XB24-ACI-001
2.4 GHz	1mW	250K	U.FL Connector	XB24-AUI-001-ND	23.20	XB24-AUI-001
XBee-PRO Modules						
2.4 GHz	100mW	250K	Whip Antenna	XBP24-AWI-001-ND	36.00	XBP24-AWI-001
2.4 GHz	100mW	250K	Chip Antenna	XBP24-ACI-001-ND	36.00	XBP24-ACI-001
2.4 GHz	100mW	250K	U.FL Connector	XBP24-AUI-001-ND	36.00	XBP24-AUI-001
XBee and XBee-PRO Development Kits						
Development Kit for XBee and XBee-PRO				XB24-DK-ND	299.00	XB24-DK
Developer's Starter Kit for XBee				XB24-DKS-ND	129.00	XB-DKS
Developer's Kit for XBee PRO				XBP24-DKS-ND	179.00	XBP-DKS
Developerment Kit for XBee PRO				XB24-PDK-ND	329.00	XB24-PDK

XBee Module

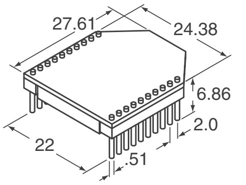

XBee-PRO Module

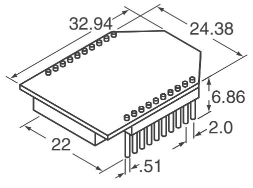

NEW! XPress™ Ethernet Bridge

With a range of up to 15 miles (line-of-sight with a high gain antenna) and the ability to transmit through as many as 10 standard walls, the XEB™ (XPress Ethernet Bridge) is an easy-to-use wireless Ethernet bridge that uses the added range and capabilities of the 900 MHz band to communicate where Wi-Fi and other wireless data products fall short.

XEB09-C Kit Includes: • (2) RF Modems • (2) 9VDC Power adapters • (2) 1/2 Wave antennas with RPTNC connector **XEB09-I Kit Includes:** • (2) RF Modems • (2) 9VDC Power adapters • (2) POE Injectors • (2) 30' CAT5e Outdoor Cables

Frequency	Power Output	RF Data Rate (Baud)	Connection Type	Use	Digi-Key Part No.	Price Each	MaxStream Part No.
900 MHz	125mW	1.5Mbps	Ethernet	Commercial	XEB09-C-ND	699.00	XEB09-C
900 MHz	125mW	1.5Mbps	Ethernet	Industrial	XEB09-I-ND	999.00	XEB09-I

NEW! Wireless Accessories

Description	Connection Type	Digi-Key Part No.	Price Each	MaxStream Part No.
Interface Board for XStream and XCite Modules	RS-232/485	XIB-R-ND	50.00	XIB-R
Interface Board for XStream and XCite Modules	USB	XIB-U-ND	50.00	XIB-U
1 Watt Interface Board for XTend Modules	RS-232/485	XTIB-R-ND	80.00	XTIB-R
1 Watt Interface Board for XTend Modules	USB	XTIB-U-ND	80.00	XTIB-U
Interface Board for XBee and XBee-PRO Modules	RS-232/485	XBIB-R-ND	60.00	XBIB-R
Interface Board for XBee and XBee-PRO Modules	USB	XBIB-U-ND	60.00	XBIB-U

RF Transmitters, Receivers and Evaluation Boards

See: ECS SMT Low Profile Quartz Crystals -
CSM-7 Case for Melexis RF Transmitters

RF Transmitters:

- Fully integrated
- PLL-stabilized VCO
- Flexible frequency possible with external varactor
- Wide power supply range
- High over-all range
- High deviation possible for wideband data transmission
- FM frequency accuracy
- Very low standby current
- Adjustable output power range
- Adjustable current consumption
- Frequency deviation and center frequency
- Differential output well-suited for loop antenna
- External clock available for m C drive
- "Clock Only" mode

RF Receivers:

- Single superhet architecture for low external component count
- FSK for digital data and FM reception
- For analog signal transmission
- FM/FSK demodulation with phase-coincidence demodulator
- Low current consumption in active mode and very low standby current
- Switchable LMA gain for improved dynamic range
- RSSI allows signal strength indication and ASK detection.

RF Filter:

- Wide cutoff frequency range (0.8 ~ 22.4MHz)
- Dual-channel architecture produces superior matching and ease of use for quadrature signals
- Low power consumption (<105mA, typical 55mA from -5V supply; FC = 1MHz @ 25°C)
- Companding design provides higher resolution at lower cutoff frequencies
- Single ended or differential input operation possible (AC coupled)
- No external components for trimming necessary

Protocol	Package	Frequency (MHz)	Temperature Range	Digi-Key Part No.	Price Each 1	10	25	50
RF Transmitters								
ASK	8-SOIC	315/433	-40° ~ 85°C	TH71071EDC-ND	5.12	3.94	3.04	2.35
ASK	8-SOIC	315/433		TH71072EDC-ND	5.12	3.94	3.04	2.35
ASK	8-SOIC	868/915		TH71081EDC-ND	5.12	3.94	3.04	2.35
FSK/FM/ASK	16-SSOP	868/915		TH7108EFF-ND	6.32	4.86	3.76	2.90

Protocol	Package	Frequency (MHz)	Temperature Range	Digi-Key Part No.	Price Each 1	10	25	50
RF Receivers								
FSK/FM/ASK	32-LQFP	315/433	-40° ~ 85°C	TH71101ENE-ND	9.52	7.32	5.66	4.36
	32-LQFP	315/433		TH71102ENE-ND	9.52	7.32	5.66	4.36
	32-LQFP	868/915		TH71111ENE-ND	9.52	7.32	5.66	4.36
	32-LQFP	868/915		TH71112ENE-ND	9.52	7.32	5.66	4.36

Description	Package	Digi-Key Part No.	Price Each 1	10	25	Digi-Key Part No.	T & R Pricing 1,500
RF Filter							
Programmable, Low-Pass Filter	16-SOIC	TH7301EDF-ND	24.00	18.45	14.25	TH7301EDF-TR-ND	6079.50/M

Description	Digi-Key Part No.	Price Each
RF Evaluation Boards for Transmitters (Includes PC Board with Matched Loop Antenna and Transmitter)		
Evaluation Board for TH7107 Transmitter	EVB7107B-315-FSKC-ND	66.50
Evaluation Board for TH7107 Transmitter	EVB7107B-433-FSKC-ND	66.50
Evaluation Board for TH7108 Transmitter	EVB7108B-868-FSKA-ND	66.50
RF Evaluation Boards for Receivers (Includes PC Board with Coax Antenna Input and Receiver)		
Evaluation Board for TH71101 Receiver	EVB71101B-315FSKC-ND	131.67
Evaluation Board for TH71101 Receiver	EVB71101B-418FSKC-ND	131.67
Evaluation Board for TH71101 Receiver	EVB71101B-433FSKC-ND	122.69
Evaluation Board for TH71102 Receiver	EVB71102B-315FSKC-ND	131.67
Evaluation Board for TH71102 Receiver	EVB71102B-418FSKC-ND	131.67
Evaluation Board for TH71102 Receiver	EVB71102B-433FSKC-ND	131.67
Evaluation Board for TH71111 Receiver	EVB71111B-868FSKC-ND	131.67
Evaluation Board for TH71111 Receiver	EVB71111B-915FSKC-ND	131.67
Evaluation Board for TH71112 Receiver	EVB71112B-868FSKC-ND	131.67
Evaluation Board for TH71112 Receiver	EVB71112B-915FSKC-ND	131.67

Developer Kits

13.56MHz Anticollision microID® Developer's Kit for MCRF355 and MCRF360

The 13.56 MHz microID Developer's Kit is an easy-to-use tool for design engineers at all skill levels. This kit includes all the hardware, software, reference designs, and samples required to get started in 13.56 MHz RFID designs. This kit is intended to demonstrate basic operation of the high-performance MCRF355 tagging chip and basic design of a simple RFID reader.

13.56MHz Anticollision microID® Developer's Kit for MCRF355, MCRF360 and MCRF45X

The 13.56 MHz microID Developer's Kit is a high speed, long range, easy-to-use tool for design engineers at all skill levels. This kit includes all the hardware, software, reference designs, and samples required to get started in high performance 13.56 MHz RFID designs. This kit is designed to demonstrate all 13.56 MHz RFID devices, including: MCRF355/360 and MCRF450/451/452/455 and to provide a basic platform for high-performance RFID reader design.

13.56MHz microID® Extra Programmer for MCRF355/360

Contents:

- Contact programmer
- Power Supply
- RS232 Cables
- RF-Lab 13.56 user interface software

Description	Digi-Key Part No.	Price Each
Kits		
13.56 MHz Anticollision microID Developer's Kit for MCRF355 and MCRF360	DV103003-ND	999.00
13.56 MHz Anticollision microID Developer's Kit for MCRF355, MCRF360 and MCRF45X	DV103006-ND	1500.00
Programmer		
Extra Programmer for MCRF355/360	PG103003-ND	250.00

RF Communication

Receivers

Modulation	Data Rate (kbps)	Frequency Range (MHz)	Sensivity (dBm)	IF Frequency Range (MHz)	Operating Voltage	RSSI	Selectable LNA Gain	Packages	Digi-Key Part No.	Price Each 1	25	100
ASK/FSK/FM	80	300 - 450	-111	0.455 - 21.4	2.5 - 5.5	Yes	Yes	32-LQFP	RFRXD0420-I/LQ-ND	5.23	3.01	2.79
ASK/FSK/FM	80	800 - 930	-109	0.455 - 21.4	2.5 - 5.5	Yes	Yes	32-LQFP	RFRXD0920-I/LQ-ND	5.03	2.89	2.79

QwikRadio™ RF Receivers

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No	Tape & Reel Pricing 2,500	Micrel Part No.
QwikRadio™ Receiver/Data Demod	14-SOIC	576-1330-1-ND	3.78	3.03	2.36	576-1330-2-ND	2117.00/M	MICRF001YM TR
QwikRadio™ Receiver/Data Demod	14-Dip	576-1331-ND	4.55	3.64	2.83	—	—	MICRF001YN
300-440MHz QwikRadio™ ASK Receiver	16-SOIC	576-1332-ND	3.96	3.17	2.47	—	—	MICRF002YM
115kbps, 800MHz-1GHz UHF Receiver	14-SOIC	576-1333-ND	4.88	3.91	3.04	—	—	MICRF005YM
QwikRadio™ LP UHF Receiver	8-SOIC	576-1334-ND	3.96	3.17	2.47	—	—	MICRF007YM
QwikRadio™ LP UHF Receiver	16-SOIC	576-1335-ND	3.96	3.17	2.47	—	—	MICRF009YM
QwikRadio™ Receiver/Data Demod	14-SOIC	576-1336-ND	3.67	2.94	2.29	—	—	MICRF011YM
QwikRadio™ Receiver/Data Demod	14-Dip	576-1337-ND	4.41	3.53	2.75	—	—	MICRF011YN

QwikRadio™ RF Transmitters

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Micrel Part No.
QwikRadio™ UHF ASK Transmitter	8-SOIC	576-1338-ND	2.77	2.22	1.73	MICRF102YM
QwikRadio™ UHF ASK Transmitter	8-SOIC	576-1339-ND	3.42	2.74	2.13	MICRF103YM
1.8V, QwikRadio™ UHF ASK Transmitter	14-SOIC	576-1340-ND	3.51	2.81	2.19	MICRF104YM

NEW! MultiTech Systems Universal Socket Modems

Multi-Tech Systems embedded modems offer easy integration of multiple technologies, all in the same universal socket modem interface. V.34 and .92 versions are available in either 3.3 or 5V interfaces, 5V GPRS or GSM versions are also available.

Development Kit: This developer kit allows the user to configure his own development kit with modem of their choice. The target board is compatible with any socket modem module, allowing for rapid development using a single board. Purchase of the desired universal socket modem is required.

Description	Voltage (V)	Interface	Digi-Key Part No.	Price Each 1	50	100	Multi-Tech Part No.
Universal Socket Modem							
Universal Socket Modem Data/Fax Serial	5	V.92	591-1000-ND	44.32	43.19	42.07	MT5600SMI-92.R2
Universal Socket Modem Data/Fax Serial	3.3	V.34	591-1001-ND	39.11	38.10	37.15	MT5600SMI-L-34.R2
Universal Socket Modem Data/Fax Serial	3.3	V.92	591-1002-ND	41.69	40.61	39.60	MT5600SMI-L-92.R2
Universal Socket Modem Data/Fax Serial	5	V.34	591-1003-ND	49.06	47.80	46.60	MT5634SMI-34.R2
Universal Socket Modem Data/Fax Serial	3.3	V.92	591-1004-ND	61.16	59.59	58.05	MT5634SMI-ITP-92.R2
Universal Socket Modem, RJ-11 Port, Serial	3.3	V.34	591-1005-ND	42.79	41.69	40.62	MT5656RJ-L-34.R2
Universal Socket Modem, RJ-11 Port, Serial	3.3	V.92	591-1006-ND	45.66	44.49	43.34	MT5656RJ-L-92.R2
Universal Socket Modem, Quad-Band GSM	5	GSM	591-1007-ND	194.73	190.02	185.29	MTSMC-E.R2
Universal Socket Modem, Data Converter Module	5	Serial to Ethernet	591-1010-ND	59.97	58.39	56.92	MTXCSEM-L.R2
Development Kit							
Universal Socket Modem Development Kit			591-1009-ND	249.00	—	—	MTSMI-UDK

National Semiconductor PLL/Frequency Synthesizer

PLL Type	Modulus	Operating Freq. (MHz)	Aux Op Frequency (MHz)	Normalized Phase Noise	Digi-Key Part No.	Price Each 1	25	100
RF/IF Dual	Integer	2,000	500 MHz	-197 dBc/Hz	LMX1600SLBXCT-ND	2.11	1.57	1.16
					LMX1600SLBXTR-ND	2125.00/2,500		
					LMX1600TM-ND	1.98	1.48	1.09
RF/IF Dual	Integer	1,100	500	-197 dBc/Hz	LMX1601SLBXCT-ND	2.28	1.70	1.26
					LMX1601SLBXTR-ND	2300.00/2,500		
					LMX1601TM-ND	1.71	1.27	.94
					LMX1601TMXCT-ND ***NEW!***	1.71	1.27	.94
					LMX1601TMXTR-ND	1718.75/2,500		
RF/IF Dual	Integer	1,100	1,100	-197 dBc/Hz	LMX1602TM-ND	1.83	1.36	1.01
Single	Integer	550	—	-210 dBc/Hz	LMX2306SLBXCT-ND	2.50	1.90	1.45
					LMX2306SLBXTR-ND	3125.00/2,500		
					LMX2306TM-ND	2.98	2.21	1.64
					LMX2306TMXTR-ND	3000.00/2,500		
Single	Integer	2,500	—	-212 dBc/Hz	LMX2310USLDXCT-ND	3.38	2.57	1.96
					LMX2310USLDXTR-ND	4218.75/2,500		
Single	Integer	2,000	—	-212 dBc/Hz	LMX2311USLDXCT-ND	3.25	2.47	1.89
					LMX2311USLDXTR-ND	4062.50/2,500		
Single	Integer	1,200	—	-212 dBc/Hz	LMX2312USLDXCT-ND	3.10	2.36	1.80
					LMX2312USLDXTR-ND	1.55/2,500		
Single	Integer	600	—	-212 dBc/Hz	LMX2313USLDXCT-ND	3.00	2.28	1.74
					LMX2313USLDXTR-ND	3750.00/2,500		
Single	Integer	1,200	—	-210 dBc/Hz	LMX2316SLBXCT-ND	2.58	1.96	1.50
					LMX2316SLBXTR-ND	3218.75/2,500		
					LMX2316TM-ND	3.04	2.26	1.67
Single	Integer	2,000	—	-210 dBc/Hz	LMX2324SLBXCT-ND	2.55	1.94	1.48
					LMX2324SLBXTR-ND	3187.50/2,500		
Single	Integer	2,800	—	-210 dBc/Hz	LMX2326SLBXCT-ND	3.33	2.53	1.93
					LMX2326SLBXTR-ND	4156.25/2,500		
					LMX2326TM-ND	3.20	2.44	1.86
RF/IF Dual	Integer	2,500	510	-211 dBc/Hz	LMX2330LTM-ND	3.03	2.30	1.76
RF/IF Dual	Integer	2,500	600	-212 dBc/Hz	LMX2330USLBXCT-ND	3.98	3.03	2.31
					LMX2330USLBXTR-ND	4968.75/2,500		
					LMX2330USLEXCT-ND	4.13	3.14	2.40
					LMX2330USLEXTR-ND	5156.25/2,500		
RF/IF Dual	Integer	2,000	510	-211 dBc/Hz	LMX2331LTM-ND	2.63	2.00	1.53
RF/IF Dual	Integer	2,000	600	-212 dBc/Hz	LMX2331USLBXCT-ND	3.45	2.63	2.01
					LMX2331USLBXTR-ND	4312.50/2,500		
					LMX2331USLEXCT-ND	3.60	2.74	2.09
					LMX2331USLEXTR-ND	4500.00/2,500		
RF/IF Dual	Integer	1,200	510	-211 dBc/Hz	LMX2332LSLBXCT-ND	2.70	2.06	1.57
					LMX2332LSLBXTR-ND	3375.00/2,500		
					LMX2332LTM-ND	2.60	1.98	1.51
RF/IF Dual	Integer	1,200	600	-212 dBc/Hz	LMX2332USLBXCT-ND	2.98	2.27	1.73
					LMX2332USLBXTR-ND	3718.75/2,500		
					LMX2332USLEXCT-ND	3.10	2.36	1.80
					LMX2332USLEXTR-ND	3875.00/2,500		
RF/IF Dual	Integer	1,100	1,100	-211 dBc/Hz	LMX2335LTM-ND	3.05	2.27	1.68
					LMX2335LTMXCT-ND ***NEW!***	3.04	2.26	1.67
					LMX2335LTMXTR-ND	3075.00/2,500		
RF/IF Dual	Integer	1,200	1,200	-212 dBc/Hz	LMX2335USLBXCT-ND	3.23	2.46	1.88
					LMX2335USLBXTR-ND	4031.25/2,500		
					LMX2335UTM-ND	3.10	2.36	1.80
RF/IF Dual	Integer	2,000	1,100	-211 dBc/Hz	LMX2336LTM-ND	2.85	2.17	1.66
RF/IF Dual	Integer	2,000	1,200	-212 dBc/Hz	LMX2336USLBXCT-ND	3.75	2.85	2.18
					LMX2336USLBXTR-ND	4687.50/2,500		
					LMX2336USLEXCT-ND	3.90	2.97	2.27
					LMX2336USLEXTR-ND	4875.00/2,500		
Single	Integer	2,000	—	-217 dBc/Hz	LMX2346SLBXCT-ND	3.63	2.76	2.11
					LMX2346SLBXTR-ND	4531.25/2,500		
					LMX2346TM-ND	3.58	2.72	2.08
Single	Integer	2,500	—	-217 dBc/Hz	LMX2347SLBXCT-ND	3.73	2.84	2.17
					LMX2347SLBXTR-ND	4656.25/2,500		
					LMX2347TM-ND	3.63	2.76	2.11
RF/IF Dual	Fractional-N	2,500	550	-201 dBc/Hz	LMX2350SLBXCT-ND	5.25	4.15	3.33
					LMX2350SLBXTR-ND	7625.00/2,500		
					LMX2350TM-ND	6.10	4.64	3.54
RF/IF Dual	Fractional-N	1,200	550	-201 dBc/Hz	LMX2352SLBXCT-ND	5.68	4.32	3.30
					LMX2352SLBXTR-ND	7093.75/2,500		
					LMX2352TM-ND	5.53	4.20	3.21

PLL Type	Modulus	Operating Freq. (MHz)	Aux Op Frequency (MHz)	Normalized Phase Noise	Digi-Key Part No.	Price Each 1	25	100
RF/IF Dual	Fractional-N	1,200	550	-201 dBc/Hz	LMX2352TMXCT-ND	5.53	4.20	3.21
					LMX2352TMXTR-ND	6906.25/2,500		
Single	Fractional-N	2,500	—	-201 dBc/Hz	LMX2353TM-ND	4.25	3.23	2.47
RF/IF Dual	Fractional-N	2,500	550	-204 dBc/Hz	LMX2354SLBXCT-ND	4.20	3.20	2.44
					LMX2354SLBXTR-ND	5250.00/2,500		
					LMX2354TM-ND	4.05	3.08	2.35
RF/IF Dual	Fractional-N	2,600	850	-210 dBc/Hz	LMX2364SLEXCT-ND	4.60	3.50	2.67
					LMX2364SLEXTR-ND	5750.00/2,500		
					LMX2364TM-ND	4.48	3.41	2.60
RF/IF Dual	Integer	2,500	1,200	-210 dBc/Hz	LMX2370SLBXCT-ND	3.78	2.87	2.19
					LMX2370SLBXTR-ND	4718.75/2,500		
					LMX2370SLDXCT-ND	3.95	3.01	2.30
					LMX2370SLDXTR-ND	4937.50/2,500		
RF/IF Dual	Integer	2,500	1,200	-210 dBc/Hz	LMX2377USLBXCT-ND	4.18	3.18	2.43
					LMX2377USLBXTR-ND	5218.750/2,500		
					LMX2377USLEXCT-ND	4.30	3.27	2.50
					LMX2377USLEXTR-ND	5375.00/2,500		
					LMX2377UTM-ND	4.05	3.08	2.35
RF/IF Dual	Integer	3,000	800	-219 dBc/Hz	LMX2430SLEXCT-ND	4.23	3.22	2.46
					LMX2430SLEXTR-ND	5281.25/2,500		
					LMX2430TM-ND	4.03	3.06	2.34
RF/IF Dual	Integer	3,600	1,700	-219 dBc/Hz	LMX2433SLEXCT-ND	4.48	3.41	2.60
					LMX2433SLEXTR-ND	5593.75/2,500		
					LMX2433TM-ND	4.20	3.20	2.44
RF/IF Dual	Integer	5,000	2,500	-219 dBc/Hz	LMX2434SLEXCT-ND	4.60	3.50	2.67
					LMX2434SLEXTR-ND	5750.00/2,500		
					LMX2434TM-ND	4.43	3.37	2.57
Delta-Sigma	Fractional-N	2,600	800	-210 dBc/Hz	LMX2470SLEXCT-ND	5.00	3.80	2.90
					LMX2470SLEXTR-ND	6250.00/2,500		
Delta-Sigma	Fractional-N	3,600	1,700	-210 dBc/Hz	LMX2471SLEXCT-ND	5.65	4.30	3.28
Evaluation Board for LMX2430					LMX2430EVAL-ND	225.00/1		
Evaluation Board for LMX2433					LMX2433EVAL-ND	225.00/1		
Evaluation Board for LMX2434					LMX2434EVAL-ND	225.00/1		
Evaluation Board for LMX2470					LMX2470EVAL-ND	225.00/1		

PLL with VCO

PLL Type	Wireless Standard	Integrated VCOS	Integrated Loop Filter	RF PLL	IF PLL	Frequency Range (MHz)	Digi-Key Part No.	Price Each 1	25	100
PLL+VCO	PDC	2	Yes	Sigma-Delta	No	633-768, 1,270-1,395	LMX2525LQ1321CT-ND	7.25	5.73	4.59
							LMX2525LQ1321TR-ND	4278.00/1,000		
PLL+VCO	CDMA	1	Yes	Sigma-Delta	Integer	2,087-2,155	LMX2542LQ2121CT-ND	6.13	4.85	3.89
							LMX2542LQ2121TR-ND	3620.80/1,000		
PLL+VCO	PCS	1	Yes	Sigma-Delta	Integer	1,619-1,650	LMX2502LQ1635CT-ND	5.31	4.20	3.37
							LMX2502LQ1635TR-ND	3137.20/1,000		
PLL+VCO	PDC	2	Yes	Sigma-Delta	No	633-768, 2,170-1,395	LMX2505LQ1321CT-ND	7.08	5.60	4.49
							LMX2505LQ1321TR-ND	4178.80/1,000		
PLL+VCO	CDMA	1	Yes	Sigma-Delta	Integer	954-980, 1,270-1,395	LMX2512LQ0967CT-ND	5.31	4.20	3.37
							LMX2512LQ0967TR-ND	3137.20/1,000		
							LMX2512LQ1065CT-ND	5.31	4.20	3.37
							LMX2512LQ1065TR-ND	3137.20/1,000		
PLL+VCO	PDC	1	Yes	Sigma-Delta	Integer	633-768, 1,270-1,395	LMX2515LQ0701CT-ND	5.99	4.74	3.80
							LMX2515LQ0701TR-ND	3534.00/1,000		
							LMX2515LQ1321CT-ND	5.99	4.74	3.80
							LMX2515LQ1321TR-ND	3534.00/1,000		
PLL+VCO	PCS+GPS	2	Yes	Sigma-Delta	Integer	1355, 1619-1650	LMX2522LQ1635CT-ND	6.36	5.03	4.03
							LMX2522LQ1635TR-ND	3757.20/1,000		
PLL+VCO	CDMA+GPS	2	Yes	Sigma-Delta	Integer	954-980, 1052-1078, 1398, 1490	LMX2532LQ0967CT-ND	6.36	5.03	4.03
							LMX2532LQ0967TR-ND	3757.20/1,000		
							LMX2532LQ1065CT-ND	6.36	5.03	4.03
							LMX2532LQ1065TR-ND	3757.20/1,000		
PLL+3	CDMA+PCS	0	Yes	Fractional N	Integer	800-1400, 1200-2300	LMX3305SLBXCT-ND	6.05	4.60	3.51
							LMX3305SLBXTR-ND	7562.50/2,500		
Evaluation Kit for LMX25021635							LMX25021635EVAL-ND	225.00/1		
Evaluation Kit for LMX25051321							LMX25051321EVAL-ND	225.00/1		
Evaluation Kit for LMX25120967							LMX25120967EVAL-ND	225.00/1		
Evaluation Kit for LMX25121065							LMX25121065EVAL-ND	225.00/1		
Evaluation Kit for LMX25221635							LMX25221635EVAL-ND	225.00/1		
Evaluation Kit for LMX25320967							LMX25320967EVAL-ND	225.00/1		
Evaluation Kit for LMX25321065							LMX25321065EVAL-ND	225.00/1		

Bluetooth® Serial Port Module

Bluetoothe Serial Port Module is a highly integrated radio, baseband controller, and memory device implemented on an FR4 substrate. All hardware and firmware is included Generic Access Profile (GAP), the Service Discovery Application Profile (SDAP) and the Serial Port Profile (SPP). **Digital Hardware:** • Baseband and Link Management Processors • CompactRISC Core • Integrated Memory: Flash, RAM • UART Command/Data Port • Auxiliary Host Interface Ports • Advanced Power Mangement (APM) features • Advanced Audio Interface for external PCM codec **Firmware:** Complete Bluetooth Stack including: • Baseband and Link Manager • L2CAP, RFCOMM, SDP • Profiles: GAP, SDAP, SPP

LMX9820ASM-ND **$28.50**

Panasonic

NEW! ZigBee™ Communication Module IEEE802.15.4

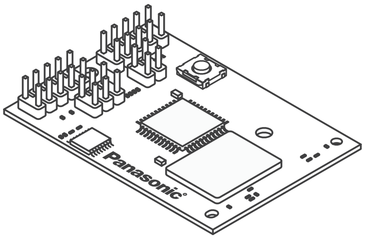

A low rate/low power communication device based upon the Freescale ZigBee Sensor Application Reference Design (SARD) development platform. It operates in the ISM 2.4 GHz band, and is fully compliant with the IEEE 802.15.4 standard. It's shipped ready to be downloaded with Freescale's 802.15.4 PHY/MAC layer and the Zigbee protocol layer.
The module uses Freescale's 802.15.4 transceiver (MC13193), microcontroller (GT60) and is licensed to use all released Freescale ZigBee Protocol stack layer software. Further, the PAN802154 has an on-board RS-232 interface IC and two on-board printed antennas that are etched on both sides of the board for optimum RF sensitivity. The entire RF section is shielded to prevent RF leakage and further improve RF performance. Tested to fully comply with current FCC requirements for 2.4 GHz ISM band application allowing the customer to complete and bring the end product to the market much quicker. The application profile or program can be developed with in-house SW staff or with any third-party SW development contractor including Panasonic.

Features: • Fully supports Zigbee, 802.15.4, or Simple MAC Application • 2.4 GHz ISM, Zigbee • 16 Channels, 5 MHz channel spacing, Full Spectrum Encode and Decode (IEEE Standard 802.15.4); up to 250 Kbps bit rate • RS-232 port; 2 Analog inputs selectable to 10bit A/D Converter; and up to 8 Digital I/O ports on easy to connect header connector • Background Debug Feature • 1 Switch and 1 LED for control and monitoring • Output power: 0dBm typical • RX Sensitivity: -92 dBm typical at 1.0% Packet Error Rate • Shielded RF Section for improved performance • On board printed antenna or optional connector for external antenna • Commercial and Industrial Operating Temperature Range • Power Supply Range: 2.2VDC to 3.4VDC without using RS-232 capability; 3.0 VDC to 3.4 VDC with using RS-232 capability

Applications: • Home Automation/Appliance control and monitoring • Industrial/Security/Asset Tracking • Commercial/Electronic Labeling • Medical/Patient Monitor (non-critical)

Performance Specifications: • Dimensions: 48mm x 34mm x 3mm (with onboard printed antennas) • **Operating Voltage**: 2.2 ~ 3.4 Volts DC • **Operating Temperature:** -20°C ~ 70°C • **Power Consumption:** Tx: 35ma Max., Rx: 40ma Max. • **Hybernate/Doze:** Dormant is less than 100µa • **Output RF Power:** 0 dBm typical, 3 dBm max. • **Receive Sensitivity:** -92 dBm typ. • **CPU with 4K RAM; 60K Flash:** 8 bit • **Bit Rate:** 250 Kbits/sec., 128 bytes/4ms • **Interface:** RS-232 Header, Header connector for 8 digital I/Os; and 2 analog inputs (2 ports - 10 bit A/D Converter)

P13479-ND **$27.40**

PHILIPS

Wideband Linear Mixer

Vs (V)	Is (mA)	Ptot (mW)	RF Output Freq. Range	IF Output Freq. Range	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing 3,000
4	20	40	800-2500MHz	50-500MHz	SOT-363	568-2066-1-ND	.94	.71	.54	306.80/M

*For Tape & Reel part number, change 1-ND to 2-ND

RF/IF Systems

Vcc (V)	IF 3dB Bandwidth	-3dB Limiting	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing 2,500
4.5-8	41MHz	-92 dBm	16-SOIC	568-1202-5-ND†	4.95	3.96	3.08	—
				568-2446-1-ND* ***NEW!***	2.99	2.40	1.87	1675.80/M
				568-1104-1-ND*	3.49	2.79	2.17	1953.00/M

*For Tape & Reel part number, change 1-ND to 2-ND † Tube Pricing

FM Receivers

Vcc (V)	Icc (mA)	RF Input Freq. Type (MHz)	LO Freq. Typ. (MHz)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing 2,500
4.5-8	6.6	500	150	20-SSOP	568-2087-5-ND† ***NEW!***	4.39	3.51	2.73	—
4.5-8	6.6	500	150	20-SOIC	568-1203-5-ND†	4.84	3.87	3.01	—
4.5-8	7.4	500	150	20-SOIC	568-1205-5-ND†	4.61	3.69	2.87	—
2.7-6	4.2	150	150	20-SSOP	568-2088-1-ND ***NEW!***	5.06	4.05	3.15	2835.00/M
2.7-6	5	150	150	20-SSOP	568-2036-1-ND	3.96	3.17	2.47	2217.60/M
2.7-6	5	100	100	20-SSOP	568-2037-1-ND	2.61	2.09	1.63	1461.60/M
2.7-7	4.2	150	150	20-SSOP	568-2034-1-ND	4.61	3.69	2.87	2583.00/M
2.7-6	4.2	150	150	20-SSOP	568-2035-1-ND	4.61	3.69	2.87	2583.00/M
2.7-5.5	7	200	200	20-TSSOP	568-2374-1-ND ***NEW!***	2.59	2.07	1.61	1449.00/M
2.7-5.5	7.5	500	500	20-SSOP	568-1105-1-ND	4.84	3.87	3.01	2709.00/M
2.7-5.5	10	500	500	24-TSSOP	568-1106-1-ND	5.06	4.05	3.15	2835.00/M
4.5-5.5	8.5	500	500	20-SSOP	568-2378-1-ND ***NEW!***	2.45	1.96	1.47	1254.40/M
4.5-6.0	6	100	100	20-SSOP	568-2377-1-ND ***NEW!***	2.25	1.80	1.35	1152.00/M

*For Tape & Reel part number, change 1-ND to 2-ND † Tube Pricing

General Purpose Wideband Amplifiers

Vs (V)	Is (mA)	Pd (mW)	@ 1 GHz Nf (dB)	Psat (dBm)	Gain (dB)	P1db (dBm)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing 3,000
6	35	200	4	12.5	22.7	8.3	SOT-363	568-2068-1-ND	.92	.69	.52	299.00/M
	20	200	4.7	2	12.9	-2	SOT-363	568-2069-1-ND	.95	.79	.64	410.80/M
	25	200	3.9	4.8	21.3	0	SOT-363	568-2070-1-ND	.92	.69	.52	299.00/M
	25	200	4.9	11	24	7	SOT-363	568-2071-1-ND	.75	.63	.50	325.00/M
	15	200	2.1	1	23	-3	SOT-363	568-2072-1-ND	.75	.63	.50	325.00/M
4	15	200	1.8	-4	21.3	-10	SOT-363	568-2073-1-ND	.95	.79	.64	410.80/M
	50	200	4.4	12	21	11	SOT-363	568-2074-1-ND	.96	.81	.65	417.30/M
5	27.5	200	4	15	35	12	SOT-363	568-2076-1-ND	1.08	.90	.72	468.00/M
	21	200	4.2	12.9	32.3	11.2	SOT-363	568-2077-1-ND	1.08	.90	.72	468.00/M

*For Tape & Reel part number, change 1-ND to 2-ND

NEW! SPDT RF Switches

Vdd (V)	Idd (µA)	On Switch Time (ns)	Off Switch Time (ns)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing 2,500
3-5.5	40/300	20	20	8-TSSOP	568-2376-1-ND	2.45	1.96	1.47	1254.40/M

*For Tape & Reel part number, change 1-ND to 2-ND

RF/IF Mixers with VCO

Vcc (V)	Icc (mA)	RF Input Freq. Typ. MHz	LO Freq. Typ. MHz	Low Noise Amp	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing 2,500
4.5-8	7.4	800-1200	1200	Yes	20-SSOP	568-2372-1-ND ***NEW!***	3.26	2.61	2.03	1827.00/M
	10.4	800-1200	1200	Yes	20-SSOP	568-2373-1-ND ***NEW!***	3.42	2.74	2.13	1915.20/M
	2.8	500	200	No	8-SOIC	568-1204-5-ND†	2.00	1.60	1.20	—
	2.8	500	200	No	8-DIP	568-2089-5-ND† ***NEW!***	1.75	1.40	1.05	—
	2.8	500	200	No	8-DIP	568-1103-5-ND†	2.00	1.60	1.20	—

*For Tape & Reel part number, change 1-ND to 2-ND † Tube Pricing

Medium-Power Gain Blocks

Vs (V)	Is (mA)	Pd (mW)	@ 850 MHz Nf (dB)	P1db (dBm)	@ 2500 MHz Nf (dB)	P1db (dBm)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing 4,000
4.8	84	20	3	21	3.4	18	SOT-89	568-2075-1-ND	2.38	1.90	1.43	1216.00/M

*For Tape & Reel part number, change 1-ND to 2-ND

Two Stage Variable Gain Linear Amplifier

Vs (V)	Is (mA)	Ptot (mW)	Frequency Range (MHz)	@ 900 MHz DG (dB)	P1db (dBm)	ACPR (dBc)	@1900 MHz DG (dB)	P1db (dBm)	ACPR (dBc)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
3.3	50	200	800-2500	24	62	11	23	56	13	SOT-363	568-2067-1-ND	1.17	.98	.78	568-2067-2-ND	507.00/M

Low Noise Wideband Amplifiers

Vs (V)	Is (mA)	Ptot (mW)	@ 900 MHz Nf (dB)	Gain (dBm)	IIP3 (dBc)	@1800 MHz Nf (dB)	Gain (dB)	IIP3 (dBm)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing
4.5	30	135	1.3	22	-7.4	1.3	19.5	-4.5	SOT-343R	568-2062-1-ND	.88	.67	.50	568-2062-2-ND	3,000	287.30/M
4.5	30	135	1.8	24	-6.5	1.8	16	-4.8	SOT-343R	568-2063-1-ND	.88	.67	.50	568-2063-2-ND	3,000	287.30/M
4.5	30	135	1.5	19	10	—	—	—	SOT-363	568-2064-1-ND	.84	.63	.48	568-2064-2-ND	3,000	273.00/M
4.5	15	70	—	—	—	1.7	16	10	SOT-363	568-2065-1-ND	.84	.63	.48	568-2065-2-ND	3,000	273.00/M

NEW! Dual PLL Synthesizer

Vdd (V)	Idd (mA)	Main Vco Input Frequency Range	Input Signal Level (dBm)	Phase Comp. Max. Freq.	Auxiliary Vco Vco Input Frequency	Input Signal Level (dBm)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 2,500
2.7-3.6	7.7	350-2500 MHz	-18/0	4 MHz	100/550	-15/0	20-TSSOP	568-2375-1-ND	5.29	4.23	3.29	568-2375-2-ND	2961.00/M

PHILIPS *NEW!* HV, VHF, and UHF Power Transistors

Fig. 1 – SOT-800A

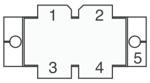

1: Gate (1)
2: Gate (2)
3: Drain (1)
4: Drain (2)
5: Source

Fig. 2 – SOT-540A

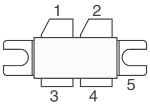

1: Drain (1)
2: Drain (2)
3: Gate (1)
4: Gate (2)
5: Source connected to flange

Fig. 3 – SOT-467C

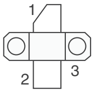

1: Drain
2: Gate
3: Source, Connected to flange

Fig. 4 – SOT-538A

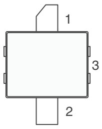

1: Drain
2: Gate
3: Source

Fig. 5 – SOT-262A1

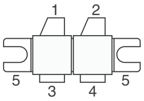

1: Drain (1)
2: Drain (2)
3: Gate (1)
4: Gate (2)
5: Source

Fig. 6 – SOT-268A

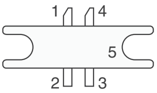

1: Drain (1)
2: Gate (1)
3: Gate (2)
4: Drain (2)
5: Source

Fig. 7 – SOT-171A

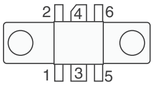

1: Source
2: Source
3: Gate
4: Drain
5: Source
6: Source

Fig. 8 – SOT-121B and SOT-123A

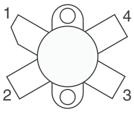

1: Drain
2: Source
3: Gate
4: Source

Fig. 9 – SOT-161A

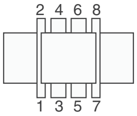

1: Source
2: Source
3: Drain (1)
4: Gate (1)
5: Drain (2)
6: Gate (2)
7: Source
8: Source

Fig. 10 – SOT-119A

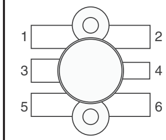

1: Source
2: Source
3: Gate
4: Drain
5: Source
6: Source

Fig. 11 – SOT-279A

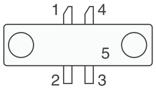

1: Drain (1)
2: Gate (1)
3: Gate (2)
4: Drain (2)
5: Source

Fig. 12 – SOT-409A

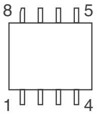

1,8: Source
2,3: Gate
4,5: Source
6,7: Drain

Fig. 13 – SOT-502A

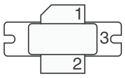

1: Drain
2: Gate
3: Source

Fig. 14 – SOT-502B

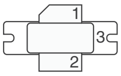

1: Drain
2: Gate
3: Source

Fig. 15 – SOT-365C

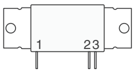

1: RF Input
2: V_S
3: RF Output
Flange: Ground

Fig.	f (MHz)	P_L (W)	V (V)	Gp (dB)	nD (%)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	T & R Pricing	Philips Part No.
								1	25	100		500	
UHF LDMOS													
1	470-860	250	32	16	55	SOT-800A	568-2408-ND	236.25	220.50	204.75	—	—	BLF872
2	470-860	150	32	15	55	SOT-540A	568-2407-ND	148.74	138.83	128.91	—	—	BLF861A
3	0-2000	30	26	>10	>30	SOT-467C	568-2387-ND	86.43	80.67	74.91	—	—	BLF2045
4	0-960	10	26	>16	>45	SOT-538A	568-2409-ND	32.16	30.02	27.88	—	—	BLF1043
UHF VDMOS													
5	500	150	28	11	55	SOT-262A1	568-2418-ND	180.00	168.00	156.00	—	—	BLF548
6	500	80	28	13	60	SOT-268A	568-2394-ND	150.75	140.70	130.65	—	—	BLF546
7	500-960	20	28	14	60	SOT-171A	568-2406-ND	40.20	37.52	34.84	—	—	BLF544
7	500	5	28	16.5	60	SOT-171A	568-2417-ND	22.71	21.20	19.69	—	—	BLF542
VHF LDMOS													
1	10-500	500	32	20	55	SOT-800A	568-2391-ND	225.00	210.00	195.00	—	—	BLF369
2	600	150	32	16	55	SOT-540A	568-2419-ND	148.74	138.83	128.91	—	—	BLF647
VHF VDMOS													
5	225	300	32	13.5	62	SOT-262A1	568-2390-ND	321.60	300.16	278.72	—	—	BLF368
5	225	250	50	16	55	SOT-262A1	568-2412-ND	110.25	102.90	95.55	—	—	BLF278
5	225	300	28	13	67	SOT-262A1	568-2389-ND	180.00	168.00	156.00	—	—	BLF248
8	28-108	150	50	19	70	SOT-121B	568-2386-ND	44.10	41.16	38.22	—	—	BLF177
8	28-108	150	28	18	70	SOT-121B	568-2385-ND	67.50	63.00	58.50	—	—	BLF147
9	175	60	28	19	65	SOT-161A	568-2403-ND	52.50	49.00	45.50	—	—	BLF246B
10	225	30	28	16.5	-	SOT-119A	568-2397-ND	194.97	181.98	168.98	—	—	BLF346
11	175	30	28	18	65	SOT-279A	568-2388-ND	49.46	46.16	42.87	—	—	BLF245B
8	175	30	28	15.5	65	SOT-123A	568-2402-ND	23.25	21.70	20.15	—	—	BLF245
8	28-108	30	50	20	65	SOT-123A	568-2400-ND	25.20	23.52	21.84	—	—	BLF175
8	28	30	28	27	40	SOT-123A	568-2395-ND	30.32	28.30	26.28	—	—	BLF145
8	175	15	28	17	65	SOT-123A	568-2411-ND	23.10	21.56	20.02	—	—	BLF244
8	175	5	28	16	60	SOT-123A	568-2396-ND	19.50	18.20	16.90	—	—	BLF242
12	175	2	12.5	13	55	SOT-409A	568-2410-1-ND	13.46	12.12	10.75	568-2410-2-ND	5050.00	BLF202 T/R

Fig.	f (MHz)	P_L (W)	V (V)	Tp (us)	Duty Cycle	Gp (dB)	nD (%)	Package	Digi-Key Part Number	Price Each			Philips Part No.
										1	25	100	
L-Band LDMOS													
3	1200-1400	35	36	1000	10	14	45	SOT-467C	568-2423-ND	187.50	175.00	162.50	BLL1214-35
13	1200-1400	35	250	1000	10	13	50	SOT-502A	568-2424-ND	375.00	350.00	325.00	BLL1214-250

Fig.	f (MHz)	P_L (W)	V (V)	Gp (dB)	nD (%)	Package	Digi-Key Part No.	Price Each			Philips Part No.
								1	25	100	
High Efficiency LDMOS											
14	800-1000	120	28	19	57	SOT-502B	568-2404-ND	152.25	142.10	131.95	BLF4G10LS-120
	2000-2200	25	28	13.5	26	SOT-502B	568-2399-ND	178.50	166.60	154.70	BLF4G22S-100
	1800-2000	110	28	12.2	47	SOT-502B	568-2405-ND	178.50	166.60	154.70	BLF4G20LS-110B
	800-1000	210	28	18	57	SOT-502B	568-2392-ND	178.50	166.60	154.70	BLF4G10LS-160
	1800-2000	110	28	12.2	47	SOT-502A	568-2393-ND	170.63	159.25	147.88	BLF4G20-110B
	1800-2000	150	28	13	55	SOT-502B	568-2414-ND	191.63	178.85	166.08	BLF4G20LS-130
	1800-2000	110	28	12.2	47	SOT-502B	568-2415-ND	170.63	159.25	147.88	BLF4G20S-110B
	2000-2200	33	28	13.5	26	SOT-502B	568-2416-ND	206.25	192.50	178.75	BLF4G22LS-130

Fig.	Mode of Operation	f (MHz)	P_L (W)	Gp (Db)	nD (%)	V (V)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	T&R Pricing	Philips Part No.
									1	25	100		400	
LDMOS RF Power Modules														
15	CW, CDMA	869-894	25, 3 avg	30	50, 18	28	SOT-365C	568-2421-5-ND	67.50	63.00	58.50	—	—	BGF802-20
15	CW, EDGE	869-894	23, 2.5 avg	30	50, 16	26	SOT-365C	568-2420-5-ND	67.50	63.00	58.50	—	—	BGF844
15	CW, EDGE	920-960	17, 2.5 avg	30	50, 16	26	SOT-365C	568-2422-5-ND	67.50	63.00	58.50	—	—	BGF944
LDMOS RF Power Transistors														
3	CW, CLASS AB	HF-1000	50	16	60	26	SOT-467C	568-2384-ND	80.40	75.04	69.68	—	—	BLF1046
3	CW, CLASS AB	HF-2200	10	>11	30	26	SOT-467C	568-2401-1-ND	48.24	45.03	41.81	568-2401-2-ND	16401.60	BLF2043F /T3
Ultra Linear LDMOS Drivers														
4	2-TONE, CLASS AB	HF-2200	6, 2	13.5, 16	35, 20	26	SOT-538A	568-2398-ND	33.75	31.50	29.25	—	—	BLF3G21-6
3	2-TONE, CLASS AB	HF-2200	30, 9	13.5, 16	35, 20	26	SOT-467C	568-2413-ND	52.50	49.00	45.50	—	—	BLF3G21-30

PHILIPS *NEW!* Tag and Label ICs

Fig. 1 – FCP2

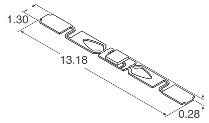

Fig. 2 – MOA2

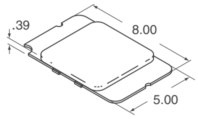

Fig. 3 – SOT-385

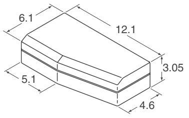

Fig. 4 – 8-TSSOP

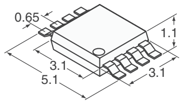

Fig. 5 – MOA4

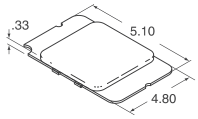

Fig.	Series	Frequency	Size	Operating Distance (m)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Philips Part No.
1	HITAG	125KHz	32	up to 2.0	FCP2	568-2210-1-ND	.96	.72	.54	.40	568-2210-2-ND	25,000	294.00/M	HTSFCH3201E V/DH-T
2			32	up to 2.0	MOA2	568-2213-1-ND	1.02	.85	.68	.51	568-2213-2-ND	16,000	425.00/M	HTSMOH3201EV-T
2	HITAG	125KHz	256	up to 1.5	MOA2	568-2201-1-ND	1.48	1.18	.89	.83	568-2201-2-ND	16,000	722.75/M	HT2MO2S2E3M-T
3			256	up to 1.5	SOT-385	568-2203-1-ND	2.90	2.33	1.81	1.72	568-2203-2-ND	5,000	1612.50/M	HT2DC20S20M
1			256	up to 2.0	FCP2	568-2212-1-ND	.78	.65	.52	.39	568-2212-2-ND	25,000	318.50/M	HTSFCH5601EV/DH-T
2			256	up to 2.0	MOA2	568-2215-1-ND	1.08	.90	.72	.54	568-2215-2-ND	16,000	450.00/M	HTSMOH5601EV-T
2	HITAG	125KHz	2048	up to 1.5	MOA2	568-2202-1-ND	2.25	1.80	1.35	1.26	568-2202-2-ND	16,000	1102.50/M	HT1MO2S3E3M-T
1			2048	up to 2.0	FCP2	568-2211-1-ND	1.53	1.22	.92	.86	568-2211-2-ND	25,000	732.00/M	HTSFCH4801EV/DH-T
2			2048	up to 2.0	MOA2	568-2214-1-ND	1.78	1.42	1.07	1.00	568-2214-2-ND	16,000	869.75/M	HTSMOH4801EV-T
1	I•CODE®	13.56MHz	136	up to 1.5	FCP2	568-2226-1-ND	.62	.47	.36	.26	568-2226-2-ND	25,000	191.10/M	SL2FCS1001DV/DH-T
1			192	up to 1.5	FCP2	568-2227-1-ND	.62	.47	.36	.26	568-2227-2-ND	25,000	191.10/M	SL2FCS1101DV/DH-T
2			512	up to 1.5	MOA2	568-2225-1-ND	.94	.71	.53	.39	568-2225-2-ND	16,000	292.50/M	SL1MO A2S30M-T
2			1024	up to 1.5	MOA2	568-2228-1-ND	.94	.71	.53	.39	568-2228-2-ND	16,000	292.50/M	SL2MOS2001DVM-T
4	U•CODE	2.45GHz UHF	2048	up to 3.0	8-TSSOP	568-2229-1-ND	.81	.68	.54	.41	568-2229-2-ND	2,500	351.00/M	SL3S3001FTT

NEW! Smart Card ICs

Fig.	Series	Frequency	EEPROM Size (byte)	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Philips Part No.
1	MIFARE® Ultralight	13.56MHz	64	FCP2	568-2216-1-ND	.76	.57	.43	.32	568-2216-2-ND	25,000	232.75/M	MF0FCP2U10/DH-T
					568-2217-1-ND	.76	.57	.43	.32	568-2217-2-ND	25,000	232.75/M	MF0FCP2U11/DH-T
5	MIFARE Standard 1K	13.56MHz	1024	MOA4	568-2219-1-ND	1.20	1.00	.80	.60	568-2219-2-ND	16,000	500.00/M	MF1MOA4S50/D-T
1				FCP2	568-2218-1-ND	1.09	.91	.73	.55	568-2218-2-ND	25,000	444.68/M	MF1FCP2S50/DH-T
5	MIFARE DESFire	13.56MHz	4096	MOA4	568-2220-1-ND	2.45	1.97	1.53	1.45	568-2220-2-ND	16,000	1335.25/M	MF3MOD4001DV/406-T

NEW! Reader ICs

Series	Frequency	Package	Digi-Key Part No.	Price Each 1	25	100	250	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Philips Part No.
HITAG	125KHz	14-SOIC	568-2206-5-ND§	1.83	1.71	1.59	1.56	—	—	—	HTRC11001AD
			568-2207-1-ND*	2.75	2.20	1.71	1.63	568-2207-2-ND	2,500	1537.20/M	HTRC11001TD-T
MIFARE	13.56MHz	32-SOIC	568-2222-5-ND§	7.13	6.65	6.18	6.06	—	—	—	MFRC51T0FED
			568-2223-5-ND§	7.88	7.35	6.83	6.70	—	—	—	MFRC53T0FED
			568-2224-5-ND§	8.63	8.05	7.48	7.34	—	—	—	MFRC53101TD
MIFARE and I•CODE	13.56MHz	32-SOIC	568-2199-5-ND§	9.75	9.10	8.45	8.29	—	—	—	CLRC63201TD

§ Tube * Cut Tape

NEW! I•CODE Proximity Evaluation Kit

The I•CODE Pegoda reader is based on the SL RC400 reader IC. The SL RC400 reader IC for contactless communication at 13.56MHz. Up to 75mm read/write distance. USB Interface.

Kit Includes: I•CODE Pegoda Reader, USB Cable, SL RC400 Samples, I•CODE sample labels, software, and Users Guide.

568-2230-ND (Philips # SLEV400/HAB) **$292.50**

NEW! I•CODE Long Range Demo Kit

The I•CODE evaluation kit offers easy plug and play demonstration of I•CODE functionality (with the use of the Windows demo software) and fast implementation of small applications. In addition, the attached DOS based evaluation software offers an easy possibility to evaluate all commands, within the command set of the I•CODE label IC. Application specific configurations of the demo reader may be performed with this software. Read and write distance up to 600mm

Kit Includes: I•CODE Reader, I•CODE Antenna, Interface Protocol Reader, 24V Power Supply Cable, Serial Cable, I•CODE Labels, Evaluation Software and Source Code, Users Manual.

568-2231-ND (Philips # SLEV900/AFB) **$3904.50**

NEW! MIFARE AND I•CODE Contactless Smart Card Reader

The Pegoda reader, CL RD701, is a contactless reader based on the CL RC632 reader IC. The CL RC632 is a member of a family for highly integrated reader ICs for contactless communication at 13.56MHz. All layers of ISO14443A+B, ISO 15693 as well as the MIFARE classic crypto are supported. The CL RD701 covers all functionality of the CL RC632 to be able to use this reader as a reference design for a new hardware design. It is designed for easy PC adaptation and application development as well. Typical operating distance 75 - 100mm. CE and FCC compliant. **Kit Includes:** CL RD701 Pegoda Reader, USB cable, Ferrite.

568-2200-ND (Philips # CLRD701) **$256.50**

NEW! MIFARE Demo Kit

The MF EV700/HAB is based on the MF RD700 Pegoda reader which uses the MF RC500 reader IC. The MF RC500 is a member of the MICORE family of highly integrated reader ICs for contactless communication at 13.56MHz. The MF EV700 evaluation kit is designed to fulfill several requirements. The Pegoda reader covers all functionality of the MF RC500 to be able to use this reader for easy PC adaptation and application development. **Kit Includes:** MF RD700 Pegoda reader, Software, 5 MIFARE cards.

568-2221-ND (Philips # MFEV700/HAB) **$300.00**

NEW! MIFARE EV800 Evaluation Kit

The MIFARE EV800 Evaluation Kit is based on the MF RD700 Pegoda reader. The Pegoda reader covers all functionality of the core component, MF RC500 reader IC, to be able to use this reader for easy PC adaptation and application development. **Kit Includes:** Pegoda reader, MF RD700 • Pegoda CD ROM • 5 MIFARE Cards • Pegoda PCB MF RM700 with USB or RS232 Interface • 5 MF RC 500 sample IC's • Card Size Antenna • 50 Ohm matching circuit

568-3161-ND (Philips # MFEV800HABM) **$990.00**

NEW! HITAG Core Module

The HITAG Core Module provides you with a universal and cost-effective module. The use of modular architecture guarantees versatile usability and easy integration into larger systems. The HITAG Core Module enables easy integration into larger systems. The HITAG Core Module enables communication with the 125KHz HITAG 1 and HITAG 2 transponders.

Kit Includes: HT CM400 HITAG Core Module.

568-2204-ND (Philips # HTCM400/EAE) **$259.50**

NEW! HITAG Proximity Reader Module

The HT RM440 HITAG Proximity Reader Module provides a universal and cost-effective complete reader unit. The HT RM440 enables communication with the 125KHz HITAG 1 and HITAG 2 transponders.

Kit Includes: HITAG Proximity Reader Module with RS232 Interface.

568-2208-ND (Philips # HTRM440/AIE) **$363.00**

NEW! HITAG Long Range Reader Module

The HT RM800 HITAG Long Range Reader Module features multiple-tag operation (anti-collision), read and write distances up to 1000mm, communication with all HITAG transponders and various other 125KHz transponders. Hitag meets all CE and EMI approval requirements with an external +15V and -15V power supply. **Dimensions (mm)**: 160 x 100 x 43

568-2209-ND (Philips # HTRM800/AED) **$1020.00**

NEW! HITAG Long Range Evaluation Kit

The HTEV800SK provides a complete long range development system for the HITAG family of read and write devices. The HTEV800 supports both the HITAG 1 and HITAG 2 product families. It features easy integration and application of HITAG reader modules.

Kit Includes: HITAG long range read and write device, Power supply, AC cable, DC power cable, External antenna including flat cable, RS232 cable, HITAG transponders, software and users manual.

568-2205-ND (Philips # HTEV800SK) **$1938.00**

GPS Evaluation Kit

Provides a hardware and software evaluation platform for development of the RF Solutions GPS/PVT module. This module provides position, velocity and time information in a standard NMEA string format that is compatible with a range of GPS driven navigation packages including Microsoft AUTOROUTE. The evaluation board provides a completed design utilizing the GPS Module. This provides a direct PC interface via 9 way D type connector and a row of pin headers to enable configuration and monitoring of the GPS signals. Power may be from any DC supply from 3.3~15V. Two LEDs provide additional information relating to the signal lock and validity of the onboard almanac.

Features:

• Standard RS232 Data Output Via 9-Way D Type Connector • Data In Standard NMEA Format • Supplied with GPS Antenna, Supporting Software, RS232 Cable (for PC Connection) • LED Indicators for Valid Almanac and Signal Lock • Link Selectable and Programmable Baud Rates • Onboard Regulator Allows 3.3 ~ 15V Supply • Compatible with Popular Routing Software

GPSM-EVAL2R1-ND	GPS Module Evaluation Board	**$375.00**
GPSM001-ND	GPS Receiver Module	**$145.00**
GPSANT-ND	GPS Antenna	**$38.75**

RF Encoder/Decoder Chipset

The RF Solutions RF600E and RF600D are easy to use encoder and decoder ICs. They have been designed to achieve the maximum possible range from any radio/InfraRed transmitter/receiver set. Unlike other encoder/decoder devices, the RF600E/600D provide an unprecedented level of security which prevents copying or grabbing while also obtaining optimum range from the transmitter and receiver.

Features: Highly secure KEELOQ® protocol • Simple to use • Stand Alone operation • Achieves maximum range from RF modules • Decoder serial output • LED indication of transmission • Directly compatible with KEELOQ® decoder • Easy learn feature of transmitters

RF600D-ND	Receiver/Decoder 18-DIP	**$6.10**
RF600E-ND	Transmitter/Encoder 8-DIP	**$2.86**

Hand Held RF Meter

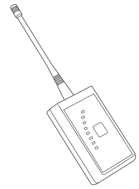

A miniature RF meter which can be used to show the presence of a radio signal. Briefly press the power switch and the LED bargraph shows RF activity within the local environment. The peak signal is held for 1 second. This can be invaluable when installing a radio system to determine if other RF signals are present (interference) and also validate the signal strength of the radio transmitter to be installed.

006-315R1-ND	Hand Held RF Meter 315MHz	**$80.03**
006-433R2-ND	Hand Held RF Meter 433MHz	**$80.03**

Wireless Communication

Fig. 1

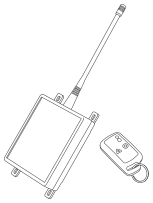

Fig. 2

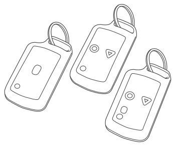

Fig. 3

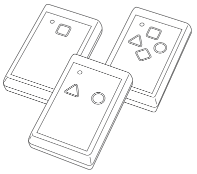

Fig. 4

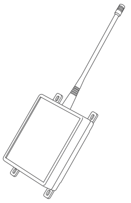

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each
	Remote Control Systems			
	AM Keyfob Systems			
1	1 Channel System, 12/24Vdc	315	118C1-315AR1-ND	76.25
	3 Channel System 12/24 Vdc	315	118C3-315AR1-ND	77.35
2	AM Keyfob Transmitter, 1 Button	315	AM110C1-315-ND	16.75
	AM Keyfob Transmitter, 2 Button	315	AM110C2-315-ND	17.30
	AM Keyfob Transmitter, 3 Button	315	AM110C3-315-ND	17.65
—	RF Receiver/Decoder Hybrid	315	AMHIRK-315AR3-ND	25.85
	FM Keyfob Systems			
3	FM Handheld Transmitter, 1 Switch	315	102C1-315FR1-ND	51.85
	FM Handheld Transmitter, 2 Switch	315	102C2-315FR1-ND	57.00
	FM Handheld Transmitter, 4 Switch	315	102C4-315FR1-ND	62.25
4	FM Remote Receiver Decoder	315	008-315FR1-ND	90.75
	AM Radio Modules			
	AM Super Hetrodyne Receivers			
—	Superhetrodyne Receiver	315	AMRRQ3-315-ND	17.25
	Superhetrodyne Receiver	433	AMRRQ3-433-ND	13.85
	AM Miniature Super Regenerative Receiver			
—	SuperRegen Receiver, Miniature	433	AMHRR30-433-ND	10.95
	AM Super Regenerative Receiver Modules			
—	SuperRegen Receiver	315	AMHRR3-315-ND	10.49
	SuperRegen Receiver	433	AMHRR3-433-ND	10.49

Fig.	Description	Freq. (MHz)	Digi-Key Part No.	Price Each
	4 Pin Hybrid Transmitter Modules			
—	Hybrid Transmitter Module, DIL Package	315	AMRT4-315-ND	9.99
	Hybrid Transmitter Module, DIL Package	433	AMRT4-433-ND	9.99
	FM Radio Modules			
	FM Hybrid Transmitter and Receiver Modules			
—	FM Transmitter, DIL Package	315	FMRTFQ1-315-ND	12.99
	FM Transmitter, DIL Package	433	FMRTFQ1-433-ND	12.99
	FM Transmitter, SIL Package	433	FMRTFQ2-433R-ND	13.50
	FM Receiver, SIL Package	315	FMRRFQ1-315-ND	25.75
	FM Receiver, SIL Package	433	FMRRFQ1-433-ND	25.75
	FM Receiver, SIL Package	433	FMRRFQ2-433-ND	17.65
	FM Transceiver Module			
—	Transceiver Module, 2 Channels	433	FMRXQ1-433-ND	39.60
	Transceiver Module			
—	Smart Com Transceiver Module	433	TRXQ1-433-ND	55.75
	RF KEELOQ® Evaluation Kits			
—	RF KEELOQ® Evaluation Kit	315	RFEVAL2-315R1-ND	340.00
	RF KEELOQ® Evaluation Receiver	—	RFEVAL3R1-US-ND*	65.00
	Book			
—	Introduction to Low Power Radio Book	—	BK-RADIO-ND	25.00

*PCB Assembly only (RF Modules and antenna not supplied)

NEW! SEMTECH RF Transceivers, GPS Modules and Development Kits

Semtech TrueRF™ product provides high data rates at low power, drop-in modules are available for multiple frequencies. Output power is programmable on both the IC's and the modules. Provide data rates of up to 153.2 kbps. XM12xx modules comes with antenna (RPSMA). GPS products include fully autonomous modules that can be interfaced to any application controller through a simple serial interface. Codecs feature a 16-bit Sigma-Delta ADC and 16-bit PWM DAC, operating down to 1.8v in either a TSSOP or Chip-Scale package. Data Acquisition features the unique Zooming ADC technology, includes low-power micro-controller based sensor interface.

RF Transceivers

Frequency (MHz)	Supply Voltage (V) min-max	Typical Current (Rx)	Modulation	Device Type	Output Power (dBm)	Package	Digi-Key Part No.	Price Each			Tape and Reel ‡	
								1	25	100	Size	Pricing
				TrueRF™ IC's								
433 / 868 / 915	2.4-3.6	14mA	2-FSK	Wideband Transceiver	0 / +5 / +10 / +15	48-VQFN	XE1203FI063CT-ND*	9.90	6.58	5.55	2,300	5267.00/M
433 / 868 / 915	2.4-3.6	14mA	2-FSK	Narrow-band Transceiver	0 / +5 / +10 / +15	48-VQFN	XE1205I074CT-ND*	9.90	6.58	5.55	2,300	5267.00/M
433 / 868 / 915	2.4-3.6	14mA	2-FSK	Transceiver w/Controller	0 / +5 / +10 / +15	72-LFBGA	XE1283I076CT-ND*	15.40	10.23	8.63	1,600	8193.00/M
				TrueRF™ Modules								
433	2.4-3.6	14	2-FSK	Transceiver (requires Host Controller)	15	Module 30.5x18.5 mm	DP1203C4333-ND*	27.50	18.26	15.40	—	—
868	2.4-3.6	14	2-FSK	Transceiver (requires Host Controller)	15	Module 30.5x18.5 mm	DP1203C868-ND*	27.50	18.26	15.40	—	—
915	2.4-3.6	14	2-FSK	Transceiver (requires Host Controller)	15	Module 30.5x18.5 mm	DP1203C915-ND*	27.50	18.26	15.40	—	—
433	2.4-3.6	14	2-FSK	Transceiver (requires Host Controller)	15	Module 30.5x18.5 mm	DP1205C433-ND*	30.25	20.09	16.94	—	—
868	2.4-3.6	14	2-FSK	Transceiver (requires Host Controller)	15	Module 30.5x18.5 mm	DP1205C868-ND*	30.25	20.09	16.94	—	—
915	2.4-3.6	14	2-FSK	Transceiver (requires Host Controller)	15	Module 30.5x18.5 mm	DP1205C915-ND*	30.25	20.09	16.94	—	—
433	2.4-3.6	14	2-FSK	Transceiver with Controller	15	Module 33.5 x 23mm	DP1283C433-ND	55.00	36.52	30.80	—	—

‡ For Tape and Reel part number, change 1-ND to 2-ND.   * ***RoHS Compliant***

(Continued)

NEW! SEMTECH RF Transceivers, GPS Modules and Development Kits *(Cont.)*

RF Transceivers

Frequency (MHz)	Supply Voltage (V) min-max	Typical Current (Rx) mA	Modulation	Device Type	Output Power (dBm)	Package	Digi-Key Part No.	Price Each 1	25	100
868	2.4-3.6	14	2-FSK	Transceiver with Controller	15	Module 33.5 x 23mm	DP1283C868-ND	55.00	36.52	30.80
915	2.4-3.6	14	2-FSK	Transceiver with Controller	15	Module 33.5 x 23mm	DP1283C915-ND	55.00	36.52	30.80
433	2.4-3.6	14	2-FSK	Wideband Transceiver Module	15	Module 30 x 55mm	XM1203FC433XE1-ND	112.50	74.70	63.00
868	2.4-3.6	14	2-FSK	Wideband Transceiver Module	15	Module 30 x 55mm	XM1203FC868XE1-ND	112.50	74.70	63.00
915	2.4-3.6	14	2-FSK	Wideband Transceiver Module	15	Module 30 x 55mm	XM1203FC915XE1-ND	112.50	74.70	63.00
433	2.4-3.6	14	2-FSK	Narrow-band Transceiver	15	Module 30 x 55mm	XM1205C433XE1-ND	112.50	74.70	63.00
868	2.4-3.6	14	2-FSK	Narrow-band Transceiver	15	Module 30 x 55mm	XM1205C868XE1-ND	112.50	74.70	63.00
915	2.4-3.6	14	2-FSK	Narrow-band Transceiver	15	Module 30 x 55mm	XM1205C915XE1-ND	112.50	74.70	63.00
433	2.4-3.6	14	2-FSK	Transceiver with Controller	15	Module 31.5 x 55mm	XM1283C433XE1-ND	112.50	74.70	63.00
868	2.4-3.6	14	2-FSK	Transceiver with Controller	15	Module 31.5 x 55mm	XM1283C868XE1-ND	112.50	74.70	63.00
915	2.4-3.6	14	2-FSK	Transceiver with Controller	15	Module 31.5 x 55mm	XM1283C915XE1-ND	112.50	74.70	63.00
Evaluation Kits										
Starter Kit for the XE1203 433 MHz							XE1203SKC433XE2-ND		343.00/1	
Starter Kit for the XE1203 868 MHz							XE1203SKC868XE2-ND		343.00/1	
Starter Kit for the XE1203 915 MHz							XE1203SKC915XE2-ND		343.00/1	
Starter Kit for the XE1205 433 MHz							XE1205SKC433XE1-ND		343.00/1	
Starter Kit for the XE1205 868 MHz							XE1205SKC868XE1-ND		343.00/1	
Starter Kit for the XE1205 915 MHz							XE1205SKC915XE1-ND		343.00/1	
Starter Kit for the XE1283 433 MHz							XE1283SKC433XE1-ND		343.00/1	
Starter Kit for the XE1283 868 MHz							XE1283SKC868XE1-ND		343.00/1	
Starter Kit for the XE1283 915 MHz							XE1283SKC915XE1-ND		343.00/1	

* ***RoHS Compliant***

GPS

Power Consumption	Position Accuracy	Sensitivity (dBm)	Start Time (Hot)	Start Time (Warm)	Antenna Included	Module Size	Digi-Key Part No.	Price Each 1	25	100
19mA	<5 CEP (No software assist)	-143	<12 Seconds	<32 Seconds	No	31.59 x 26.59 x 11.2 mm	RGPSM002-ND	68.75	45.65	38.50
19mA	<5 CEP (No software assist)	-143	<12 Seconds	<32 Seconds	Yes	31.59 x 26.59 x 11.2 mm	RGPSM002WA-ND	79.75	52.96	44.66
25mA	<5 CEP (No software assist)	-143	<12 Seconds	<32 Seconds	No	38 x 26.5 mm	RGPSM202-ND	82.50	54.78	46.20
Evaluation Kits										
Evaluation Kit for RGPSM002, includes module, development board, CD with documentation, antenna and USB Cable							RGPSD012-ND		525.00/1	
Evaluation Kit for RGPSM202, includes module, development board, CD with documentation, antenna and USB Cable							RGPSD212-ND		525.00/1	

CODECs

ADC	SNR (Fsync=20KHz)	THD (Fsync=20kHz, 1/4 FS)	Supply Voltage (V)	Sampling Rate (KHz)	DAC	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel Size	Tape and Reel Pricing
16-bit Σ Δ	78	0.5	1.8	4-48	16-bit PWM	20-TSSOP	XE3005I033CT-ND*	4.40	2.93	2.47	2,500	2341.00/M
16-bit Σ Δ	78	0.5	1.8	4-48	16-bit PWM	20-UCSP	XE3005I064CT-ND*	4.13	2.74	2.31	2,000	2195.00/M
Development Kit												
Development kit for XE3000 Series, Includes Board with connectors and microphone, CD with software and documentation, headphones							XE3000DVK-ND			140.00/1		

‡ For Tape and Reel part number, change 1-ND to 2-ND. * ***RoHS Compliant***

Data Acquisition - Zooming ADC

MCU MIPS	Max Speed CPU (MHz)	RAM (bytes)	Supply Voltage Min-Max (MTP)	MTP (Multiple time Programmable ROM) KB	Temperature	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel Size	Tape and Reel Pricing
2	4 MHz	520	2.4-5.5	22	-40°C ~ 85°C	44-LQFP	XE8801AMI027LF-ND*	10.33	6.86	5.79	—	—
2	4 MHz	1032	2.4-5.5	22		100-LQFP	XE8802MI035LF-ND*	16.50	10.96	9.24	—	—
2	5MHz	520	2.4-5.5	22		64-LQFP	XE8805AMI028LF-ND*	12.38	8.22	6.93	—	—
2.5	5MHz	520	2.4-5.5	22		32-TQFP	XE8806AMI026CT-ND*	6.75	4.49	3.78	2,000	3591.00/M
5	5MHz	520	2.4-5.5	22		32-TQFP	XE8807AMI026CT-ND*	6.75	4.49	3.78	2,000	3591.00/M
Evaluation and Programming Boards												
Evaluation Board for the XE8801							XE8000EV101-ND			310.00/1		
Evaluation Board for the XE8805							XE8000EV104-ND			310.00/1		
Evaluation board for the XE8806/XE8807							XE8000EV108-ND			310.00/1		
Evaluation Board for the XE8802							XE8000EV110-ND			440.00/1		
Program Board and the ProStart2 Card for the XE88xx series							XE8000MP-ND			280.00/1		

‡ For Tape and Reel part number, change 1-ND to 2-ND. * ***RoHS Compliant***

SILICON LABORATORIES

2.4GHz ZigBee™ Development Kit

The 2.4GHz ZigBee Development Kit (ZigBee-2.4-DK) includes all of the hardware and software necessary to immediately begin developing ZigBee network solutions. This comprehensive development platform allows customers to focus on application development rather than hardware selection and integration. Silicon Laboratories' industry-compliant ZigBee development platform benefits customers by ensuring multi-vendor interoperability.

The ZigBee-2.4-DK contains the following items:

- Six 2.4GHz 802.15.4 Development Boards with Antennas
- One 9V, 1.5A Universal Power Supply
- One USB Debug Adapter
- Two USB Cables
- Six 9V Batteries

336-1275-ND	2.4GHz ZigBee Development Kit	**$950.00**

NEW! 802.15.4-2.4-DK Development Kit

The 2.4GHz 802.15.4 Development Kit (802.15.4-2.4-DK) includes all of the hardware and software necessary to immediately begin developing an 802.15.4 solution.

This comprehensive development platform allows customers to focus on application development rather than hardware selection and integration. Silicon Laboratories' industry-compliant (tested for compliance by TUV Rheinland) 802.15.4 development platform benefits customers by ensuring multi-vendor interoperability.

The 802.15.4-2.4-DK contains the following items:

- Two 2.4GHz 802.15.4 ZigBee Target Boards
- Two Antennas
- Two 9V batteries
- 2.4GHz 802.15.4 Development Kit User's Guide
- AC to DC power adapter
- USB debug adapter (USB to debug interface)
- Two USB cables

336-1295-ND	2.4GHz 802.15.4-2.4-DK Development Kit	**$365.00**

SILICON LABORATORIES

RF Synthesizers

Silicon Laboratories' wireless solutions are the world's most integrated, robust, reliable and easiest to use wireless solutions available in the market today. By eliminating more discretes and requiring fewer external components that alternate solutions, our products empower our customers to add value-rich features and speed time to market. Best of all, we develop and design these world-class products in proven, standard CMOS process technology.

Features: • CMOS RF synthesizers with integrated VCOs, loop filters and varactors • Low profile packages

Description	RF1 (MHz)	RF2 (MHz)	IF (MHz)	Settling Time (µs)	Input RF (MHz)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Silicon Labs Part No.	Evaluation Board Digi-Key Part No.	Evaluation Board Price Each	Silicon Labs Part No.
General Purpose	N/A	N/A	62.5 ~ 1000	200*	2 ~ 26	28-MLP	336-1097-ND	6.73	5.30	SI4112-BM	336-1098-ND	225.00	SI4112M-EVB
IF OUT, Lead Free, QFN	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200*	2 ~ 26	28-QFN	336-1170-ND	5.89	5.30	SI4112-D-GM	—	—	—
IF OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200*	2 ~ 26	24-TSSOP	336-1171-ND	5.89	5.30	SI4112-D-GT	—	—	—
General Purpose	900 ~ 2050	750 ~ 1500	N/A	200*	2 ~ 26	28-MLP	336-1099-ND	8.73	7.86	SI4113-D-GM	336-1100-ND	225.00	SI4113M-EVB
RF1/RF2 OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200*	2 ~ 26	24-TSSOP	336-1172-ND	8.73	7.86	SI4113-D-GT	—	—	—
General Purpose	N/A	750 ~ 1500	62.5 ~ 1000	200*	2 ~ 26	28-MLP	336-1103-ND	8.73	7.86	SI4122-D-GM	336-1104-ND	225.00	SI4122M-EVB
RF2/IF OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200*	2 ~ 26	24-TSSOP	336-1173-ND	8.73	7.86	SI4122-D-GT	—	—	—
RF1/IF OUT, Lead Free, QFN	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200*	2 ~ 26	28-QFN	336-1174-ND	8.73	7.86	SI4123-D-GM	—	—	—
RF1IF OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200*	2 ~ 26	24-TSSOP	336-1175-ND	8.73	7.86	SI4123-D-GT	—	—	—
802.11b.g and Ism Band	N/A	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-MLP	336-1111-ND	8.73	7.86	SI4126-BM	336-1112-ND	225.00	SI4126M-EVB
2.3 GHz/IF OUT	2300 ~ 2500	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-MLP	336-1176-ND	8.73	7.86	SI4126-F-BM	—	—	—
2.3GHz/IFOUT, Lead Free	N/A	2025 ~ 2300	62.5 ~ 1000	100†	2 ~ 50	28-MLP	336-1289-5-ND ***NEW!***	8.73	7.86	SI4126-F-GM	336-1112-ND	225.00	SI4126M-EVB
General Purpose	900 ~ 2050	750 ~ 1500	62.5 ~ 1000	200*	2 ~ 26	28-MLP	336-1113-ND	10.89	9.80	SI4133-BM	336-1116-ND	225.00	SI4133M-EVB
RF1/RF2/IF OUT, Lead Free, TSSOP	900 ~ 1.8	750 ~ 1.5	62.5 ~ 1000	200*	2 ~ 26	24-TSSOP	336-1177-ND	10.89	9.80	SI4133-D-GT	—	—	—
802.11b.g and Ism Band	2300 ~ 2500	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-MLP	336-1118-ND	10.89	9.80	SI4136-BM	336-1119-ND	225.00	SI4136M-EVB
2.5 GHz/2.3 GHz/IF OUT, Lead Free	2300 ~ 2500	2025 ~ 2300	62.5 ~ 1000	80†	2 ~ 50	28-QFN	336-1178-ND	10.89	9.80	SI4136-F-GM	—	—	—
2.5 GHz/2.3 GHz/IF OUT, Lead Free	2300 ~ 2500	2025 ~ 2300	62.5 ~ 1000	100†	2 ~ 50	24-TSSOP	336-1291-5-ND ***NEW!***	10.89	9.80	SI4136-F-GT	336-1119-ND	225.00	SI4136M-EVB
Evaluation Kit for SI4133W-BM							336-1290-ND ***NEW!***	225.00	—	SI4133WM-EVB	—	—	—

* For a 200 kHz update rate † For update rates > 500 kHz

SIRENZA MICRODEVICES

RF Amplifiers and VCOs

Sirenza Product by Series:
• **SBA**, **SBB**, **SBF and SBW Series**: InGaP high linearity Medium Power Driver amps (Gain Blocks) • **SGA Series**: SiGe general purpose gain blocks (Medium Power) • **SGL Series**: SiGe low noise amplifiers • **SHF Series**: GaAs HFET discrete transistors • **SLD Series**: LDMOS power transistors • **SPA Series**: GaAs Class A power amplifiers • **STA Series**: InGaP Class AB power amplifier for WLAN and WiMAX applications • **STQ Series**: Direct Quadrature Demodulator • **SXB Series**: InGaP/GaAs HBT power amplifier • **SZA Series**: InGaP 5V Class AB power amplifier for WLAN and WiMAX • **VCO790 Series**: Wideband 5V VCOs • **VCO793 Series**: Wideband 12V VCOs

Fig. 1

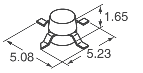

Fig. 2

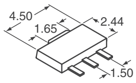

Fig. 3

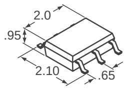

Fig. 4

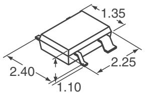

Fig. 5

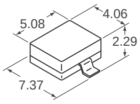

Fig. 6

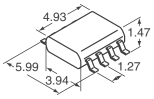

Fig. 7

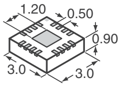

Fig. 8

Exposed Thermal Pad Zone: 3.0 sq.

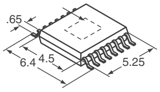

Fig. 9

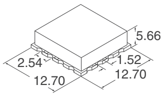

Fig.	Gain dB (@1.95GHz)	P_{1dB} dBm (Typ.)	Bandwidth MHz	V_D V (Typ.)	I_D mA (Typ.)	Size	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 25	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Sirenza Microdevices Part No.
1	14.2	19	5000	5.0	80	86-SOT	599-1000-1-ND◊	2.08	1.93	1.80	599-1000-2-ND◊	1,000	1550.00	SBA-4086Z
	17.2	19.5	5000	4.9	80	86-SOT	599-1002-1-ND◊	2.08	1.93	1.80	599-1002-2-ND◊	1,000	1550.00	SBA-5086Z
	9.3	6.7	5000	2.2	20	86-SOT	599-1013-1-ND◊	.98	.94	.88	599-1013-2-ND◊	3,000	620.00/M	SGA-2186Z
	14.0	7.0	5000	2.2	20	86-SOT	599-1015-1-ND◊	.98	.94	.88	599-1015-2-ND◊	3,000	620.00/M	SGA-2286Z
	15.3	7.5	2800	2.7	20	86-SOT	599-1017-1-ND◊	.98	.94	.88	599-1017-2-ND◊	3,000	620.00/M	SGA-2386Z
	16.7	7.5	5000	2.7	20	86-SOT	599-1019-1-ND◊	.98	.94	.88	599-1019-2-ND◊	3,000	620.00/M	SGA-2486Z
	13.0	11.3	5000	2.6	35	86-SOT	599-1021-1-ND◊	1.10	1.02	.97	599-1021-2-ND◊	3,000	810.00/M	SGA-3286Z
	15.3	10.7	5000	2.6	35	86-SOT	599-1023-1-ND◊	1.10	1.02	.97	599-1023-2-ND◊	3,000	810.00/M	SGA-3386Z
	18.0	12.5	5000	2.9	35	86-SOT	599-1025-1-ND◊	1.10	1.02	.97	599-1025-2-ND◊	3,000	810.00/M	SGA-3486Z
	20.0	12.5	5000	3.25	35	86-SOT	599-1027-1-ND◊	1.10	1.02	.97	599-1027-2-ND◊	3,000	810.00/M	SGA-3586Z
	9.2	12.4	5000	3.2	45	86-SOT	599-1029-1-ND◊	1.10	1.02	.97	599-1029-2-ND◊	3,000	810.00/M	SGA-4186Z
	12.0	13.0	5000	3.2	45	86-SOT	599-1031-1-ND◊	1.10	1.02	.97	599-1031-2-ND◊	3,000	810.00/M	SGA-4286Z
	14.6	13.0	4500	3.2	45	86-SOT	599-1033-1-ND◊	1.10	1.02	.97	599-1033-2-ND◊	3,000	810.00/M	SGA-4386Z
	15.9	12.8	4500	3.2	45	86-SOT	599-1035-1-ND◊	1.10	1.02	.97	599-1035-2-ND◊	3,000	810.00/M	SGA-4486Z
	17.9	13.7	4000	3.6	45	86-SOT	599-1037-1-ND◊	1.55	1.52	1.47	599-1037-2-ND◊	3,000	1150.00/M	SGA-4586Z
	12.0	14.0	5000	3.5	60	86-SOT	599-1038-1-ND◊	1.55	1.52	1.47	599-1038-2-ND◊	3,000	1150.00/M	SGA-5286Z
	14.9	14.7	5000	3.6	60	86-SOT	599-1040-1-ND◊	1.55	1.52	1.47	599-1040-2-ND◊	3,000	1150.00/M	SGA-5386Z
	16.3	15.0	3500	3.5	60	86-SOT	599-1042-1-ND◊	1.55	1.52	1.47	599-1042-2-ND◊	3,000	1150.00/M	SGA-5486Z
	18.7	15.8	4000	3.9	60	86-SOT	599-1044-1-ND◊	1.55	1.52	1.47	599-1044-2-ND◊	3,000	1150.00/M	SGA-5586Z
	12.4	17.8	5500	4.0	75	86-SOT	599-1046-1-ND◊	1.55	1.52	1.47	599-1046-2-ND◊	3,000	1150.00/M	SGA-6286Z
	13.5	19.0	5000	4.9	80	86-SOT	599-1048-1-ND◊	1.55	1.52	1.47	599-1048-2-ND◊	3,000	1150.00/M	SGA-6386Z
	16.4	18.5	4500	5.1	75	86-SOT	599-1050-1-ND◊	1.55	1.52	1.47	599-1050-2-ND◊	3,000	1150.00/M	SGA-6486Z
	18.4	19.0	2500	4.9	80	86-SOT	599-1052-1-ND◊	1.55	1.52	1.47	599-1052-2-ND◊	3,000	1150.00/M	SGA-6586Z
2	14.6	19	4400	5.0	80	89-SOT	599-1001-1-ND◊	2.08	1.93	1.80	599-1001-2-ND◊	1,000	1550.00	SBA-4089Z
	18.0	19.5	4400	4.9	80	89-SOT	599-1003-1-ND◊	2.08	1.93	1.80	599-1003-2-ND◊	1,000	1550.00	SBA-5089Z
	15.5†	19	50-850	5	90	89-SOT	599-1004-1-ND◊	2.87	2.64	2.43	599-1004-2-ND◊	1,000	2050.00	SBB-1089Z
	20†	21	50-850	5	90	89-SOT	599-1005-1-ND◊	2.87	2.64	2.43	599-1005-2-ND◊	1,000	2050.00	SBB-2089Z
	15.5	19.5	4500	5	80	89-SOT	599-1006-1-ND◊	2.51	2.31	2.12	599-1006-2-ND◊	1,000	1800.00	SBB-4089Z
	20.0	20.5	3000	5	80	89-SOT	599-1007-1-ND◊	2.51	2.31	2.12	599-1007-2-ND◊	1,000	1800.00	SBB-5089Z
	14.7‡	19.9	500	4.9	90	89-SOT	599-1008-1-ND◊	2.91	2.70	2.52	599-1008-2-ND◊	1,000	2180.00	SBF-4089Z
	19.5‡	20.7	500	4.9	90	89-SOT	599-1009-1-ND◊	2.91	2.70	2.52	599-1009-2-ND◊	1,000	2180.00	SBF-5089Z
	18∆	19.4	6000	4.9	80	89-SOT	599-1010-1-ND◊	6.50	5.11	4.65	599-1010-2-ND◊	1,000	3850.00	SBW-5089Z
	12.7	14.4	5000	3.5	60	89-SOT	599-1039-1-ND◊	1.22	1.16	1.09	599-1039-2-ND◊	3,000	970.00/M	SGA-5289Z
	15.4	15.0	4500	3.6	60	89-SOT	599-1041-1-ND◊	1.22	1.16	1.09	599-1041-2-ND◊	3,000	970.00/M	SGA-5389Z
	17.9	14.6	4000	3.3	60	89-SOT	599-1043-1-ND◊	1.22	1.16	1.09	599-1043-2-ND◊	3,000	970.00/M	SGA-5489Z
	20.8	16.2	4000	3.9	60	89-SOT	599-1045-1-ND◊	1.22	1.16	1.09	599-1045-2-ND◊	3,000	970.00/M	SGA-5589Z
	12.6	17.8	4500	4.0	75	89-SOT	599-1047-1-ND◊	1.22	1.16	1.09	599-1047-2-ND◊	3,000	970.00/M	SGA-6289Z
	14.0	18.9	4500	4.9	80	89-SOT	599-1049-1-ND◊	1.22	1.16	1.09	599-1049-2-ND◊	3,000	970.00/M	SGA-6389Z
	17.5	18.7	3500	5.1	75	89-SOT	599-1051-1-ND◊	1.22	1.16	1.09	599-1051-2-ND◊	3,000	970.00/M	SGA-6489Z
	20.0	19.0	4000	4.9	80	89-SOT	599-1053-1-ND◊	1.22	1.16	1.09	599-1053-2-ND◊	3,000	970.00/M	SGA-6589Z

† 400MHz ‡ 500MHz †† 2200MHz ∆ 3GHz §1GHz • Bulk ◊ ***RoHS Compliant***

(Continued)

SIRENZA MICRODEVICES RF Amplifiers and VCOs *(Cont.)*

Fig.	Gain dB (@1.95GHz)	P_{1dB} dBm (Typ.)	Bandwidth MHz	V_D V (Typ.)	I_D mA (Typ.)	Size	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Sirenza Microdevices Part No.
								1	25	100		Size	Pricing	
2	18.5	20.0	3000	5.0	115	89-SOT	599-1054-1-ND◊	2.41	2.30	2.22	599-1054-2-ND◊	3,000	1730.00/M	SGA-7489Z
	12.2	25.5	3000	5	179	89-SOT	599-1056-1-ND◊	1.70	1.57	1.44	599-1056-2-ND◊	3,000	1120.00/M	SGA-9189Z
	12	27.5	3000	5	292	89-SOT	599-1057-1-ND◊	2.24	2.06	1.90	599-1057-2-ND◊	3,000	1480.00/M	SGA-9289Z
	16.7	27.5	50-6000	8.0	100	89-SOT	599-1060-1-ND	6.20	4.72	4.10	599-1060-2-ND	1,000	3100.00	SHF-0189
	14.6	30.2	50-6000	7.0	200	89-SOT	599-1061-1-ND	8.60	6.88	5.98	599-1061-2-ND	1,000	4520.00	SHF-0289
	17	24.2	5-2500	5.2	135	89-SOT	599-1068-1-ND◊	2.84	2.69	2.53	599-1068-2-ND◊	1,000	2054.00	SXB-2089Z
	15	27.5	400-2500	5	260	89-SOT	599-1069-1-ND◊	7.95	7.40	6.88	599-1069-2-ND◊	1,000	5950.00	SXB-4089Z
3	17.2	2.3	5000	2.5	11	363-SOT	599-1011-1-ND◊	.98	.94	.83	599-1011-2-ND◊	3,000	510.00/M	SGA-0363Z
	9.8	6.2	5000	2.2	20	363-SOT	599-1012-1-ND◊	.98	.94	.83	599-1012-2-ND◊	3,000	510.00/M	SGA-2163Z
	13.5	6.1	5000	2.2	20	363-SOT	599-1014-1-ND◊	.98	.94	.83	599-1014-2-ND◊	3,000	510.00/M	SGA-2263Z
	16.1	7.2	5000	2.7	20	363-SOT	599-1016-1-ND◊	.98	.94	.83	599-1016-2-ND◊	3,000	510.00/M	SGA-2363Z
	17.1	7.2	5000	2.7	20	363-SOT	599-1018-1-ND◊	.98	.94	.83	599-1018-2-ND◊	3,000	510.00/M	SGA-2463Z
	13.6	10.9	5500	2.6	35	363-SOT	599-1020-1-ND◊	1.02	.95	.91	599-1020-2-ND◊	3,000	710.00/M	SGA-3263Z
	15.9	10.5	5500	2.6	35	363-SOT	599-1022-1-ND◊	1.02	.95	.91	599-1022-2-ND◊	3,000	710.00/M	SGA-3363Z
	19.0	11.0	5000	2.9	35	363-SOT	599-1024-1-ND◊	1.02	.95	.91	599-1024-2-ND◊	3,000	710.00/M	SGA-3463Z
	21.5	12.5	5000	3.25	35	363-SOT	599-1026-1-ND◊	1.02	.95	.91	599-1026-2-ND◊	3,000	710.00/M	SGA-3563Z
	9.7	12.1	5000	3.2	45	363-SOT	599-1028-1-ND◊	1.02	.95	.91	599-1028-2-ND◊	3,000	710.00/M	SGA-4163Z
	12.7	12.5	3500	3.2	45	363-SOT	599-1030-1-ND◊	1.02	.95	.91	599-1030-2-ND◊	3,000	710.00/M	SGA-4263Z
	14.8	13.0	4000	3.2	45	363-SOT	599-1032-1-ND◊	1.02	.95	.91	599-1032-2-ND◊	3,000	710.00/M	SGA-4363Z
	17.0	12.3	3500	3.2	45	363-SOT	599-1034-1-ND◊	1.02	.95	.91	599-1034-2-ND◊	3,000	710.00/M	SGA-4463Z
	20.2	12.8	2500	3.6	45	363-SOT	599-1036-1-ND◊	1.22	1.16	1.09	599-1036-2-ND◊	3,000	970.00/M	SGA-4563Z
	14.1§	5.6	100-1300	3	12	363-SOT	599-1058-1-ND◊	.90	.82	.76	599-1058-2-ND◊	3,000	590.00/M	SGL-0163Z
	13.4	5.5	1400-2500	3	12.5	363-SOT	599-1059-1-ND◊	1.08	.97	.89	599-1059-2-ND◊	3,000	690.00/M	SGL-0263Z
4	16.5	9.0	6000	3.0	12	343-SOT	599-1055-1-ND◊	.60	.54	.45	599-1055-2-ND◊	3,000	320.00/M	SGA-8343Z
5	15††	2.5	2200	28	60	2-SOIC	599-1062-1-ND◊	12.98	12.07	11.23	599-1062-2-ND◊	500	5220.00	SLD-1083CZ
	14††	10	2200	28	120	2-SOIC	599-1063-1-ND◊	25.66	23.86	22.19	599-1063-2-ND◊	500	10650.00	SLD-2083CZ
6	24	29.5	2200	5.0	400	8-SOIC	599-1065-1-ND◊	9.04	8.32	7.65	599-1065-2-ND◊	500	3519.00	SPA-2318Z
7	29.5	26.5	4900-5900	3.3	165	16-QFN	599-1066-1-ND◊	1.75	1.62	1.52	599-1066-2-ND◊	3,000	1210.00/M	STA-6033Z
	25.5	29.5	2000-2700	5	300	16-QFN	599-1070-1-ND◊	3.67	3.12	2.65	599-1070-2-ND◊	3,000	1760.00/M	SZA-2044Z
	25	30	2700-3800	5	220	16-QFN	599-1071-1-ND◊	3.66	3.40	3.16	599-1071-2-ND◊	3,000	2540.00/M	SZA-3044Z
	29.5	29.5	4900-5900	5	220	16-QFN	599-1072-1-ND◊	4.74	4.03	3.43	599-1072-2-ND◊	3,000	2280.00/M	SZA-5044Z
	18.5	24.9	5100-5900	5	165	16-QFN	599-1073-1-ND◊	4.80	4.08	3.47	599-1073-2-ND◊	3,000	2300.00/M	SZA-6044Z
8	–	–	700-2500	5	73	16-TSSOP	599-1067-1-ND◊	6.30	5.95	5.60	599-1067-2-ND◊	1,000	4550.00	STQ-2016Z
9	–	6	1500	5	25	16-SMD	599-1074-ND•	23.84	22.70	–	–	–	–	VCO790-1500T
	–	3	2300	5	15	16-SMD	599-1075-ND•	23.04	22.12	–	–	–	–	VCO790-2300T
	–	5.5	600	5	23	16-SMD	599-1076-ND•	23.84	22.70	–	–	–	–	VCO790-600T
	–	6	750	12	25	16-SMD	599-1077-ND•	23.84	22.70	–	–	–	–	VCO793-750T

† 400MHz ‡ 500MHz †† 2200MHz ∆ 3GHz §1GHz • Bulk ◊ ***RoHS Compliant***

RFID Evaluation Kit

The DEMOKITCRX14 tools are designed to demonstrate the STMicroelectronics short range product range that includes the SR176, SRIX512 and SRIX4K products.

The SR176 / SRIX512 / SRIX4K is s contactless memory, powered by a transmitted carrier radio wave at 13.56MHz. It contains a 176-bit (SR176), 512-bit (SRIX512) or 4096-bit (SRIX4K) EEPROM, with memory mapping organized as blocks of 16 or 32 bits. It conforms to the ISO 14443-B recommendation for the transfer of power and signals via radio transmission. The DEMOKITCRX14 reader circuitry amplitude modulates (10% modulation) the data on the carrier using amplitude shift keying (ASK). The SR176 / SRIX512 / SRIX4K replies by load modulating the data on the carrier using the BPSK (Bit Phase Shift Keying) coding using the 847kHz sub-carrier. The data transfer rate in each direction is 106 Kbit/ second.

The purpose of the DEMOKITCRX14 program is to give an example of how the interfacing can be achieved. It does not allow the user to evaluate all of the different ISO 14443 modes.

The DEMOKITCRX14 gives access to the full memory mapping. It is possible to read and write into the selected SR176 / SRIX512 / SRIX4K. This release of demonstration software, differentiated for each SR176 / SRIX512 / SRIX4K, allows all of the product features to be exercised.

Kit Includes: • One CD-ROM • One CRX14 board with I^{2}C connector • One USB Transceiver with USB cable • Some SR176 and SRIX4K Samples • Documentation

497-3704-ND RFID Evaluation Kit... **$468.00**

TAIYO YUDEN ***NEW!*** Bluetooth™ Modules

EYSFDCAXW: Serial Port Module, Class 2 Bluetooth (version 2.0+EDR), 31x15x3mm in size allows for simple compact Bluetooth implementation. **EYSFDCSWX:** USB Module, Class 2 Bluetooth version 2.0+EDR. Small size 31x15x3mm. Both serial and USB modules have FCC and IC type approvals. Utilize CSR's BlueCore chipset which is compatible with Intel wi-fi implementation. **Evaluation Kits include:** 2 board mounted modules, support software, a reference design and power cables, enabling “plug and play” testing and development with the modules.

Max. Data Rate	Range (Meters)	Connection	Supply Voltage (V)	Current Consumption (mA)	Digi-Key Part No.	Price Each			Taiyo Yuden Part No.
						1	10	100	
115.2	30	Serial (UART)	3.3V	40mA (continuous Rx)	587-1426-ND	35.00	28.88	24.50	EYSFDCAXW
115.2	30	USB	3.3V	40mA (continuous Rx)	587-1427-ND	35.00	28.88	24.50	EYSFDCSWX
Development Kits									
Development Kit for EYSFDCSWX USB Bluetooth Module..					587-1428-ND	850.00/1			EKSFDCSWX
Development Kit for EYSFDCAXW Serial Bluetooth Module					587-1429-ND	850.00/1			EKSFDCAXW

TEXAS INSTRUMENTS RF Products

Description	Pkg.	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		T.I. Part No.
			1	25	100		Size	Pricing	
2GHz Low Voltage Synthesizer	20-TSSOP	296-1969-5-ND	4.84	3.87	3.01	—	—	—	TRF2052PW
0.4GHz-1.5GHz Quad Modulator	16-QFN	296-17198-ND	8.46	7.62	6.76	—	—	—	TRF3701IRHC
1.5GHz-2.5GHz Quad Modulator	16-QFN	296-17350-ND	8.46	7.62	6.76	—	—	—	TRF3702IRHC
PLL Freq. Synthesizer	16-TSSOP	296-16941-5-ND	5.40	4.32	3.65	—	—	—	TRF3750IPW
High-Performance Integer-N PLL Frequency Synthesizer	20-QFN	296-17552-5-ND	6.00	4.80	4.05	—	—	—	TRF3750IRGP
Dual VCO/PLL Synthesizer with IF Down-Conversion	48-QFN	296-19314-1-ND ***NEW!***	21.23	19.81	18.40	296-19314-2-ND ***NEW!***	250	4510.25	TRF1212IRGZT
3.5 GHz High Dynamic Range, Low-Noise Down-Converter	20-QFN	296-19289-1-ND ***NEW!***	9.75	8.78	7.79	296-19289-2-ND ***NEW!***	250	1864.75	TRF1216IRGPT
Dual VCO/PLL Synthesizer with IF Up-Converter	48-QFN	296-19290-1-ND ***NEW!***	21.23	19.81	18.40	296-19290-2-ND ***NEW!***	250	4510.25	TRF1221RGZT
3.5GHz Integrated Up-Converter	32-QFN	296-19291-1-ND ***NEW!***	10.08	9.08	8.05	296-19291-2-ND ***NEW!***	250	1928.50	TRF1222IRTMT
420-450MHz Single-Chip RF Transmitter	24-TSSOP	296-11056-5-ND	3.94	3.15	2.45	—	—	—	TRF4400PW
850-950MHz Single-Chip RF Transmitter	24-TSSOP	296-11057-5-ND	3.04	2.43	1.89	—	—	—	TRF4900PW
Single-Chip Multiband RF Transmitter	24-TSSOP	296-17876-5-ND	3.04	2.43	1.89	—	—	—	TRF4903PW
902-928MHz Single-Chip RF Transceiver	48-LQFP	296-14059-1-ND	6.40	5.12	4.32	296-14059-2-ND	1,000	4000.00	TRF5901PTR
850-950MHz Single-Chip RF Transceiver	48-LQFP	296-11058-ND	5.40	4.32	3.65	—	—	—	TRF6900APT
860-930MHz Single-Chip RF Transceiver	48-PQFP	296-12242-ND	5.44	4.36	3.68	—	—	—	TRF6901PT
Single Chip Multiband RF Transceiver	48-PQFP	296-17391-ND	4.05	3.24	2.52	—	—	—	TRF6903PT
Fully Integrated Analog Front-End Dual Receiver Base	28-TSSOP	296-19301-5-ND	3.38	2.70	2.10	—	—	—	TRF7900APW
Fully Integrated Analog Front-End Dual Receiver Base	28-TSSOP	296-19302-5-ND	3.38	2.70	2.10	—	—	—	TRF7900PW

TI-RFid A TEXAS INSTRUMENTS TECHNOLOGY Low Frequency Transponders 134.2KHz

Fig.	Functionality	Memory (Bits)	Memory (Pages)	Typical Reading Range (cm)	Operating Temperature (Read)	Operating Temperature (Program)	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
1	Read Only	64	1	≤ 60	-25°C ~ 70°C	—	481-1006-ND	3.90	2.41	2.13	RI-TRP-REHP-01
	Read Only	64	1	≤ 60	-40°C ~ 85°C	—	481-1007-ND	8.21	5.62	4.98	RI-TRP-RRHP-20
	Read/Write	80†	1	≤ 60	-40°C ~ 85°C	-40°C ~ 70°C	481-1008-ND	5.52	3.40	3.01	RI-TRP-WRHP-20
2	Read Only	64	1	≤ 100	-25°C ~ 70°C	—	481-1000-ND	4.02	2.48	2.19	RI-TRP-RE2B-01
	Read Only	64	1	≤ 100	-25°C ~ 85°C	—	481-1001-ND	5.16	3.18	2.81	RI-TRP-RR2B-20
	Read/Write	80†	1	≤ 100	-25°C ~ 70°C	-25°C ~ 70°C	481-1002-ND	4.02	2.48	2.19	RI-TRP-WE2B-01
	Read/Write	80†	1	≤ 100	-25°C ~ 85°C	-25°C ~ 70°C	481-1003-ND	5.67	3.50	3.09	RI-TRP-WR2B-20
	SAMPT	1360†	17 R/W††	≤ 100	-25°C ~ 85°C	-25°C ~ 85°C	481-1005-ND	8.96	6.14	5.44	RI-TRP-IR2B-01
3	Read Only	64	1	≤ 20	-40°C ~ 85°C	—	481-1009-ND	8.21	5.62	4.98	RI-TRP-R9WK-20
	Read/Write	80†	1	≤ 20	-40°C ~ 85°C	-40°C ~ 70°C	481-1010-ND	8.21	5.62	4.98	RI-TRP-W9WK-03
4	Read Only	64	1	≤ 60	-25°C ~ 85°C	—	481-1011-ND	6.69	3.86	3.65	RI-TRP-R9QL-20
	Read/Write	80†	1	≤ 60	-25°C ~ 70°C	-25°C ~ 70°C	481-1012-ND	7.17	4.14	3.91	RI-TRP-W9QL-00
5	Read Only	64	1	≤ 150	-25°C ~ 85°C	—	481-1013-ND	8.94	6.13	5.42	RI-TRP-R9UR
	Read/Write	80†	1	≤ 150	-25°C ~ 70°C	-25°C ~ 70°C	481-1014-ND	9.54	6.54	5.79	RI-TRP-W9UR
6	Read Only	64	1	≤ 200	-25°C ~ 85°C	—	481-1017-ND	11.46	7.42	6.95	RI-TRP-R9TD-16
	Read/Write	80†	1	≤ 200	-25°C ~ 70°C	-25°C ~ 70°C	481-1018-ND	12.27	7.94	7.44	RI-TRP-W9TD-13
	MPT	1360†	17 R/W†	≤ 200	-25°C ~ 85°C	-25°C ~ 85°C	481-1019-ND	16.42	11.88	10.65	RI-TRP-D9TD
7	Read Only	64	1	≤ 120	-25°C ~ 70°C	—	481-1015-ND◊	11.82	7.65	7.17	RI-TRP-R9VS-11
	Read/Write	80†	1	≤ 120	-25°C ~ 70°C	-25°C ~ 70°C	481-1016-ND◊	11.32	8.19	7.34	RI-TRP-W9VS-11
8	Read Only	64	1	≤ 100	-25°C ~ 50°C*	—	481-1020-ND	6.27	3.62	3.42	RI-TRP-R4FF-01
	Read/Write	80†	1	≤ 100	-25°C ~ 50°C*	-25°C ~ 50°C*	481-1021-ND	6.69	3.86	3.65	RI-TRP-W4FF-01
9	Read Only	64	1	≤ 60	-40°C ~ 85°C	—	481-1022-ND	7.20	4.15	3.92	RI-TRP-RFOB-01
	Read/Write	80†	1	≤ 60	-40°C ~ 85°C	-40°C ~ 70°C	481-1023-ND	6.49	4.45	3.94	RI-TRP-WFOB-01

† Recommendation: split each 80 bit page into 64 user programmable bits plus a 16 bit wide CRC CCITT Block Check Character as is done by TI-RFID LF readers.
†† 24 bits Selective Address width.
◊ 0 ~ 70°C if used with RI-STU-MB2A/MB6A or RI-RFM-104B
* Per ISO 7810

Part No.	Vibration	
RI-TRP-RRHP, RI-TRP-WRHP, RI-TRP-RR2B, RI-TRP-WR2B, RI-TRP-DR2B, RI-TRP-IR2B, RI-TRP-REHP, RI-TRP-RE2B, RI-TRP-WE2B	IEC 68-2-6, Test Fc;	3g, 5-50Hz, 2 axes, 24 hours per axis 20g, 10-2000Hz, 2 axes, 2.5 hours per axis
RI-TRP-R9WK, RI-TRP-W9WK	IEC 68-2-6, Test Fc;	20g, 1-500Hz, 3 axes, 24 hours per axis
RI-TRP-R9QL, RI-TRP-W9QL	IEC 68-2-6, Test Fc;	25g, 10-2000Hz, 3 axes, 7 shocks per axis
RI-TRP-R9UR, RI-TRP-W9UR	IEC 68-2-6, Test Fc;	10g, 20-500Hz, 2 axes, 10 cycles per axis
RI-TRP-R9TD, RI-TRP-W9TD RI-TRP-D9TD	IEC 68-2-6, Test Fc;	20g, 20-500Hz, 2 axes, 10 cycles per axis
RI-TRP-R9VS, RI-TRP-W9VS	IEC 68-2-6, Test Fc;	20g, 20-500Hz, 3 axes, 10 cycles per axis

Dim. in mm

Fig. 1

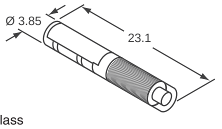

Case Material: Glass

Fig. 2

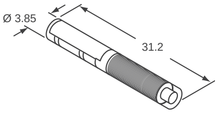

Case Material: Glass

Fig. 3

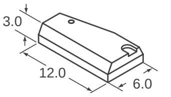

Case Material: Plastic Compound, Black

Fig. 4

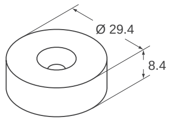

Case Material: Poly-Oxy-Methylene, Black

Fig. 5

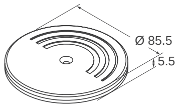

Case Material: Acrylate-Styrene-Arcylonitrile, Black

Fig. 6

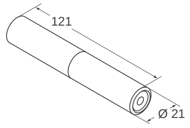

Case Material: Poly-Ether-Imide Black

Fig. 7

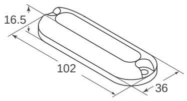

Case Material: Plastic/Glass Insert (Transponder)

Fig. 8

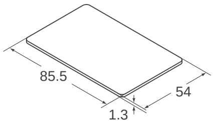

Case Material: Reinforced Polyetherlmide, Black

Fig. 9

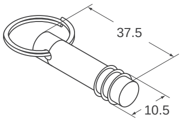

Case Material: Polypropylene, Black

High Frequency Transponders Inlay

13.56MHz

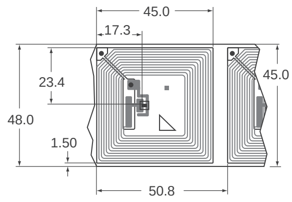

Square (Circular Not Illustrated)

Square

Programming Cycles	Antenna Size Inch (mm)	Operating Temperature	Storage Temperature	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel‡ Pricing	Texas Instruments Part No.
100,000	1.7 x 1.7 (45 x 45) 1.7 x 2.9 (45 x 76)	-25°C ~ 70°C	-40°C ~ 40°C	481-1065-1-ND 481-1066-1-ND	1.47 1.68	.82 .85	.67 .76	2535.00/5,000 2885.00/5,000	RI-I11-112A-03 RI-I02-112A-03
100,000	.89 x 1.5 (22.5 x 38)	-25°C ~ 70°C -25°C ~ 50°C	-40°C ~ 40°C	481-1067-1-ND 481-1071-ND	1.47 3.54	.82 2.18	.67 1.93	2535.00/5,000 —	RI-I03-112A-03 RF-HDT-JMRB

Programming Cycles	Dimensions Inch (mm)	Weight (Grams)	Operating Temperature	Storage Temperature	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
100,000	3.37 x 2.13 x .030 (85.6 x 54 x 0.76)	5	-25°C ~ 50°C	-25°C ~ 50°C	481-1072-ND 481-1068-ND 481-1069-ND	4.20 4.50 4.80	2.59 2.78 2.96	2.29 2.45 2.62	RI-TH1-CB1A-00 RI-TH1-CB2A-00 RI-TH1-CB3A-00
	2.13 x 1.10 x .067 ± .012 (54 x 28 x 1.7 ± 0.3)	3.7	-25°C ~ 50°C	-25°C ~ 50°C	481-1070-ND	5.40	3.33	2.94	RX-HDT-KMAB-C1
10,000	23.0 x 12.45 x 2.7 (.91 x .49 x .11)	3	-25°C ~ 70°C	-25°C ~ 70°C	481-1079-5-ND ***NEW!*** 481-1080-5-ND ***NEW!***	3.84 4.02	2.37 2.48	2.10 2.19	RI-INL-R9QK-20 RI-INL-W9QK-20

Circular

Programming Cycles	Antenna Size Inch (mm)	Operating Temperature	Storage Temperature	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel‡ Pricing	Texas Instruments Part No.
100,000	24.2 (0.95)	-25°C ~ 70°C	-40°C ~ 40°C	481-1073-1-ND 481-1074-1-ND	1.47 1.47	.82 .82	.67 .67	2535.00/5,000 2535.00/5,000	RI-I16-112A-03 RI-I17-112A-03

‡ For Tape and Reel part number, change the 1-ND to 2-ND

Gen II Inlay

This inlay is designed for ease of integration in the smart label conversion process. Gen II products are based on the EPCglobal™ Generation II specification with 96 bits of user programmable EPC™ memory field with read, write, and lock capabilities. **Feature:** 100% tested inlays

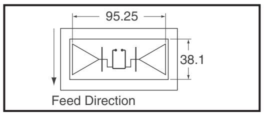

Operating Frequency	Antenna Size Inch (mm)	Data Retention @ 25°C	Write/Erase Cycle @ 25°C	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Pricing 10,000	Texas Instruments Part No.
860-960 MHz	3.5 x1 (88.90x25.40)	2 years	1000	481-1078-1-ND	1.19	.66	.54	481-1078-2-ND	389.00/M	RI-UHF-00C01-03

Encapsulated Transponder 13.56MHz

Allows for advanced solutions in demanding supply chain management applications such as laundry tracking. A ruggedized transponder that can withstand harsh environments

Specifications: • Typical Programming Cycles (@ 25°C): 100,000 • Data Retention Times (@ 25°C): 10 years • Dimensions: 22±0.2mm x 3±0.2mm • Weight: 1.6±0.3 grams • Case Material: PPS, Black • Protection Class: IP 68 • Operating Temperature: -25°C ~ 90°C

481-1062-ND (Texas Instruments # RF-HDT-DVBB-N0)... **$3.30**

Transponder Sheeting

This silicone sheeting can be applied to protect 32mm x 3.85mm glass. Transponders for shock intensive applications like sports timing, key-fobs, and vehicle tracking.

Specifications: • Useable For: 32mm TI-RFid Glass Transponder • Material: Silicone • Color: Transparent • Operating Temperature: -40°C ~ 85°C • Dimension: Diameter 6mm ± 0.2mm x 35 ± 1mm

481-1024-ND (Texas Instruments # RI-ACC-SHT3-00) (1,000 pc. bag)................... **$74.97**

TI-RFid
A TEXAS INSTRUMENTS TECHNOLOGY

HF Antenna
13.56MHz

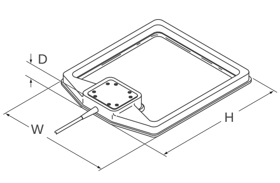

Series 6000 Gate Antenna

This antenna is a single-loop transmit/receive antenna with preset matching electronics for a transmitter frequency of 13.56MHz.

SPECIFICATIONS: • **Impedance:** 50Ω ± 10Ω • **Connector:** SMA male (50 Ohm) • **Cable:** Type: RG58; Length: 3.6m ± 0.1m

Operating Temp.	Dimensions (H x W x D) (mm)	RF Power (Max.)	Digi-Key Part No.	Price Each	Texas Instruments Part No.
-25°C ~ 65°C	94 x 94 x 57	10W	481-1053-ND	235.15	RR-IDSC-ANT-PS-A
-25°C ~ 55°C	94 x 94 x 57	10W	481-1059-ND	173.10	RR-IDISC-ANT-T-A
-25°C ~ 55°C	337 x 322 x 38	8W	481-1051-ND	439.88	RI-ANT-T01A-00
-25°C ~ 65°C	851 x 620 x 38	10W	481-1057-ND	1298.57	RR-IDISC-ANT8-6-A
-25°C ~ 55°C	851 x 620 x 38	10W	481-1058-ND	1076.04	RR-IDISC-ANT8-6-B

LF Antennas
134.2KHz
Series 2000

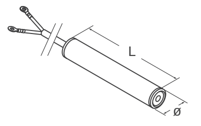

Stick Antennas

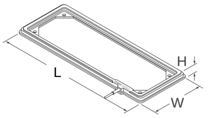

Gate Antennas

Inductance	Operating Temp.	Dimensions (mm) L x W x H	Cable Length	Digi-Key Part No.	Price Each	Texas Instruments Part No.
Stick Antennas						
27µH @ 134.2KHz	-30 ~ 70°C	140 x ø21	1m	481-1040-ND	82.45	RI-ANT-S01C-00
27µH @ 134.2KHz	-30 ~ 70°C	140 x ø21	3m	481-1041-ND	87.47	RI-ANT-S02C-00
116uH @ 134.2KHz	-30 ~ 70°C	133 x ø21.3	0.1m	481-1042-ND†	82.45	RI-ANT-P02A-00
Gate Antennas						
27µH @ 134.2KHz	-30 ~ 60°C	200 x 200 x 25	1m	481-1043-ND	128.64	RI-ANT-G02E
27µH @ 134.2KHz	-30 ~ 60°C	715 x 270 x 25	1m	481-1044-ND	148.15	RI-ANT-G01E
26µH @ 134.2KHz	-30 ~ 60°C	1018 x 518 x 47	—	481-1045-ND	202.49	RI-ANT-G04E

† Recommended for RI-RFM-003B

HF Antenna 13.56MHz

The elegant pad-antenna is perfectly suitable for desk applications with a reading range of up to 30cm. File and document tracking as well as the registration of rental goods during distribution and return are only two out of many possible applications.

SPECIFICATIONS: • **Maximum RF Power:** 1W • **Connector:** SMA-plug (50Ω) • **Operating Temperature:** 0°C ~ 55°C • **Dimensions:** 337mm x 237mm x 8.3mm

481-1056-ND (Texas Instruments # RR-IDISC-ANT34-24) **$235.15**

Readers/Modules

Series 2000 LF Micro Reader

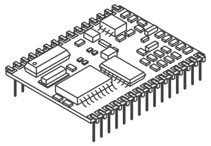

The Series 2000 Micro Reader is an intelligent module that provides all RF and control functions in order to communicate with 134.2KHz HDX/FSK transponders and a host application. It is designed as a 30-pin dual-in-line printed circuit board. The Series 2000 Micro Reader is equipped with a serial communication interface and works together with a 47µH low-Q antenna that eliminates the need to tune the system to resonance.

SPECIFICATIONS: • **Operating Temperature:** -20°C ~ 50°C • **RF Transmit Frequency:** 134.2KHz • **Power Supply:** 5VDC, regulated at 100mA • **Communications Interface:** Serial Communications Interface (SCI) • **Antenna:** 47µH • **Transponder Types:** 134.2KHz HDX/FSK • **Dimensions (mm):** 38.3 x 29.3 x 13.5

481-1029-ND (Texas Instruments # RI-STU-MRD1) **$71.48**

Series 2000 LF Control Module

The Series 2000 Control Module is the interface between the TI-RFid Radio Frequency Module RI-RFM-104B, RI-RFM-007B or RI-RFM-008B and the Host. It decodes the received RF signals into the transponder's identification number, checks the validity and handles the conversion to a standard serial interface protocol. In addition it can store up to 909 reading transactions into the buffer. It is offered with two different serial interfaces, the RI-CTL-MB2A for point-to-point communication via an RS232 interface and the RI-CTI-MB6A for point-to-multipoint communication via RS422/485 interface. It has two open collector outputs and eight configurable digital input/outputs that can be defined by the user.

SPECIFICATIONS: • **Operating Temperature:** 0°C ~ 70°C • **Power Supply:** 7 ~ 25VDC, regulated • **Communication Interface:** RS232 (RI-CTL-MB2A-02) RS422/485 (RI-CTL-MB6A-02) • **Dimensions (mm):** 93 x 82 x 33

481-1035-ND (Texas Instruments # RI-CTL-MB2A-03) RS232 .... **$227.51**

481-1036-ND (Texas Instruments # RI-CTL-MB6A-03) RS422/485 .... **$227.51**

Series 2000 LF Reader

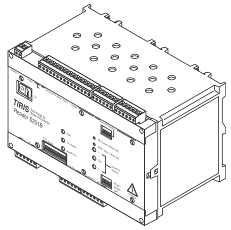

The Series 2000 Reader S251B provides all RF and control functions to communicate with 134.2KHz HDX/FSK transponders. It sends an energizing signal to the transponder, modulates the RF signal to send data to the transponder, decodes and checks the received transponder data and transmits it via a standard serial interface (RS232, RS422/485). The reader includes a Dynamic Auto Tuning (DAT) function that automatically tunes a standard antenna to resonance and keeps it tuned during operation.

SPECIFICATIONS:
- **Operating Temperature:** -20°C ~ 70°C
- **RF Transmit Frequency:** 134.2KHz
- **Power Supply:** 10 ~ 24VDC, regulated
- **Communications Interface:** RS232, RS422/485
- **Antenna Tuning Range:** 26 ~ 27.9µH (Dynamic Auto Tuning)
- **Transponder Type:** 134.2KHz HDX/FSK
- **Dimensions (mm):** 200 x 120 x 120

481-1028-ND (Texas Instruments # RI-STU-251B-01) **$670.37**

Series 2000 LF Standard Reader

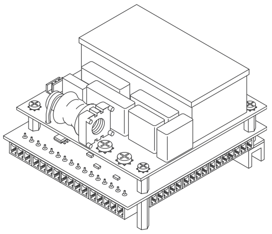

The Series 2000 Standard Reader provides all RF and control functions to communicate with 134.2KHz HDX/FSK transponders. It sends an energizing signal to the transponder, modulates the RF signal to send data to the transponder, decodes and checks the received transponder data and transmits it via a standard serial interface (RS232 or RS422/485).

SPECIFICATIONS:
- **Operating Temperature:** 0°C ~ 70°C
- **RF Transmit Frequency:** 134.2KHz
- **Power Supply:** 7 ~ 14VDC, regulated
- **Communications Interface:** RS232 (RI-STU-MB2A-03), RS422/485 (RI-STU-MB6A-02)
- **Antenna Tuning Range:** 26 ~ 27.9µH
- **Transponder Types:** 134.2KHz HDX/FSK
- **Dimensions (mm):** 92 x 82 x 59

481-1026-ND (Texas Instruments # RI-STU-MB2A-03) RS232 .... **$466.34**

481-1027-ND (Texas Instruments # RI-STU-MB6A-02) RS422/485 .... **$466.34**

High Performance LF Radio Frequency Modules

FEATURES:
- **Common:** Variable power supply range - Synchronization control in multireader arrays - High power output
- **Standard RFM:** (RI-RFM-007B-00) Capacitive tuning to resonance - Supports antenna cable lengths up to 10 meters (depending on antenna design)
- **Remote Antenna RFM:** (RI-RFM-008B-00) Supports antenna cable lengths up to 120 meters - Capacitive and inductive tuning to resonance

SPECIFICATIONS:
- **Operating Temperature:** -25°C ~ 70°C
- **Power Supply:** 7 ~ 24 VDC regulated (If switching power supply is used, the frequency must be > 200KHz)
- **RF Transmit Power:** To be set by pulse width to comply with PTT/FCC regulations
- **RF Transmit Frequency:** 134.2KHz
- **Antenna Tuning Range:** 26 ~ 27.9µH (8 ~ 80µH including cable for RI-ACC-008B-00)
- **Dimensions (mm):** 89 x 93 x 44 (115 x 70 x 27 for RI-ACC-008B-00)

RECOMMENDED ACCESSORIES: Digital Reader Module RI-CTL-010A (for RI-RFM-007B-00 and RI-RFM-008B-00) Antenna Tuning Module RI-ACC-008B (for RI-RFM-008B-00)

481-1032-ND (Texas Instruments # RI-RFM-007B-00) Standard RFM **$278.92**

481-1033-ND (Texas Instruments # RI-RFM-008B-00) Remote Antenna RFM **$239.07**

481-1034-ND (Texas Instruments # RI-ACC-008B-00) Antenna Tuning Module **$89.10**

Series 2000 LF 4-Channel TX/RX Multiplexer Module

The Series 2000 4-Channel TX/RX Multiplexer Module allows the use of up to four transmit/receive antennas connected through a Remote Antenna Tuning Board (RI-ACC-008B) with one Remote Antenna Radio Frequency Module (RI-RFM-008B). The active antenna (TX/RX channel) is selected by a controller through two digital input signals.

SPECIFICATIONS:

- **Operating Temperature:** -25°C ~ 70°C • **RF Transmit Frequency:** 134.2KHz • **Power Supply:** 10 ~ 24VDC • **Dimensions (mm):** 136 x 90 x 31

481-1037-ND (Texas Instruments # RI-MOD-TX8A-00) **$165.12**

Series 2000 LF Mini Radio Frequency Module

The Series 2000 Mini Radio Frequency Module is the interface between a 134.2KHz HDX/FSK transponder and the Data Processing Unit. It sends an energizing signal to the transponder, modulates the RF signal to send data to the transponder, receives the identification signal and processes it for digital decoding. The small size and low supply voltage make the Mini RF module well suited for portable read/write units.

SPECIFICATIONS:

- **Operating Temperature:** 0°C ~ 50°C • **Operating Frequency:** 134.2KHz • **Power Supply:** 4.5 ~ 6 VDC, regulated: maximum 1.2A • **Antenna:** Inductivity: 115 ~ 117µH • **Antenna Recommended:** RI-ANT-P02A • **Dimensions (mm):** 60.2 x 55.1 x 11.5

481-1030-ND (Texas Instruments # RI-RFM-003B-00).. **$160.59**

(Continued)

Readers/Modules *(Cont.)*

Series 2000 LF
Antenna Tuning Indicator

Antenna Tuning Indicator makes the resonance tuning of the TI-RFid's Standard RFM and the HIgh Performance RFM easy. LED's indicate in which direction the tuning core should be turned (RI-RFM-104B) or whether tuning capacitance needs to be added or removed (RI-RFM-007B) to bring a connected antenna to resonance.

SPECIFICATIONS:

- **Operating Frequency:** 134.2KHz • **Resonance Tuning Accuracy (Green LED on):** ±600Hz
- **Operation with RF Modules:** RI-RFM-104B, RI-RFM-007B • **Operation with Reader:** RI-STU-MBA, RI-STU-MB6A
- **Operating Temperature:** 0°C ~ 50°C
- **Dimensions: Housing (mm):** 72 x 50 x 26, **Cable Length (mm):** 235 ±5

481-1025-ND (Texas Instruments # RI-ACC-ATI2-00) **$89.76**

HF 8X
Antenna Multiplexer

The 8 times multiplexer facilitates switching between RFid antennas with an operating frequency of 13.56 MHz. With one multiplexer several single antennas and gate solutions (existing of base and complementary antennas) can be operated with only one reader.
Any of the eight multiplexers outputs can be assigned to both inputs by jumper adjustment.

The multiplexer is controlled either via a digital input or the antenna cable connected with the reader.

SPECIFICATIONS:

- **Operating Temperature:** -25°C ~ 65°C • **Operating Frequency:** 13.56MHz
- **Power Supply:** 12 ~ 24 VDC • **Maximum Allowed Switching Capacity:** 10W
- **RF Connections:** 2x Input/8x Output SMA Socket (50Ω)
- **Dimensions (mm):** 182 x 110 x 90

481-1054-ND (Texas Instruments # RR-IDISC-ANTMUX-A).. **$1512.53**

HF Manual
Antenna Tuner Board

The tuning board is a manually adjustable matching circuit for constructing custom antennas having a transmission frequency of 13.56MHz and an input impedance of 50Ω. Together with an antenna conductor (e.g., the shield of an RF213 cable) it is quite easy to construct antennas of various sizes and shapes.

The antennas are tuned using jumpers and trim capacitors after installing the antenna conductor. After this done the antenna must be continuously matched to its surrounding conditions. If after tuning the antenna is moved to a different position under different ambient conditions, it may have to be recalibrated.

SPECIFICATIONS:

- **Operating Temperature:** -25°C ~ 55°C • **Operating Frequency:** 13.56MHz
- **Antenna Impedance:** 50Ω • **Q:** 10 ~ 30 • **Inductance Calibration Range:** 0.6 ~ 2.5µH
- **Dimensions (mm):** 90 x 80 x 20

481-1060-ND (Texas Instruments # RR-IDISC-MAT-A).. **$195.96**

Series 6350 HF
Midrange Reader Module

SPECIFICATIONS:

- **Operating Frequency:** 13.56MHz • **Supported Transponders:** Tag-it™ HF, Tag-it™ HF-I and ISO 15693 compliant transponders • **Supply Voltage:** 5VDC
- **Transmitter Power:** 120mW into 50Ω • **Antenna Connection:** 2 pins of 16-pin header connector
- **Antenna Impedance:** 50Ω @ 13.56MHz • **Communication Interface:** RS232
- **Operating Temperature:** -20°C ~ 70°C
- **Dimensions (mm):** 109.22 x 68.58 x 10.2

481-1048-ND (Texas Instruments # RI-STU-TRDC-02).. **$111.52**

Series 6550 HF
Long Range Reader (Housed)

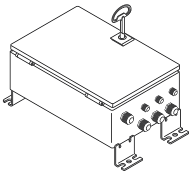

SPECIFICATIONS:

- **Operating Frequency:** 13.56MHz
- **Supported Transponders:** Tag-it™ HF, Tag-it™ HF-I, ISO 15693 compliant Transponders
- **Power Supply:** 100-120V/60Hz or 220-240V/50Hz
- **Transmitter Power:** 0.5W to 10W ± 1dB
- **Antenna Connection:** 2 x SMA Female
- **Antenna Impedance:** 50 Ω at 13.56MHz
- **Communication Interfaces:** RS232 or RS485
- **Operating Temperature:** -20°C ~ 55°C
- **Dimensions (mm):** 300 x 200 x 160

481-1050-ND (Texas Instruments # RI-STU-655A).. **$2040.15**

Series 6500 HF
Long Range Reader Module

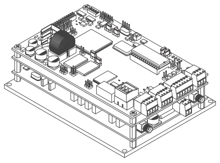

SPECIFICATIONS:

- **Operating Frequency:** 13.56MHz
- **Supported Transponders:** Tag-it™ HF, Tag-it™ HF-I, ISO 15693 compliant Transponders
- **Supply Voltage:** 24VDC
- **Transmitter Power:** 0.5W to 10W ± 1dB
- **Antenna Connection:** 2 x SMA female
- **Antenna Impedance:** 50Ω at 13.56MHz
- **Communications Interfaces:** RS232 or RS485
- **Operating Temperature:** -20°C ~ 65°C
- **Dimensions (mm):** 160 x 120 x 67

481-1049-ND (Texas Instruments # RI-STU-650A-00)... **$1547.70**

Series 6700 HF
Multi-Protocol Transceiver IC

The S6700 Multi Protocol Transceiver IC enables a broad range of 13.56MHz RFID interrogator designs for portable and stationary readers. This low power consumption device supports multiple RF communication protocols, minimizes onboard power requirements and reduces parts count in a final reader product.

SPECIFICATIONS:

- **Operating Frequency:** 13.56MHz • **Supported RF Communication Protocols:** Tag-it™ HF, ISO 15693-2 and ISO 14443-2 • **Operating Voltage:** 3.3V ~ 5VDC
- **Transmitter Power:** 200mW at 5VDC • **Antenna Impedance:** 50Ω at 13.56MHz • **Communication Interface:** Serial interface
- **Operating Temperature:** -40°C ~ 85°C • **Package:** SSOP 20

Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	T&R Pricing 1,500	Texas Instruments Part No.
481-1046-1-ND	9.80	6.71	5.94	481-1046-2-ND	5017.00/M	RI-R6C-001A-03

Mid-Range Reader

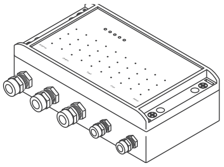

This reader has an aluminum housing with the protection class of IP 54 which protects against dust, dirt and syringe water. Transmitting power of 1.7 watts and read ranges of up to 70cm.

The reader has several I/O's and has the serial interfaces RS232 and RS485 which can be adjusted by the software.

SPECIFICATIONS:

- **Operating Frequency:** 13.56MHz
- **Dimensions (L x W x H):** 200 x 110 x 60mm
- **Antenna Connection:** SMA-plug (50 Ω)
- **Outputs:** 2 Optocouplers, 24 V DC/30 mA; 1 Relay, 24 V DC/2 A
- **Inputs:** 2 Optocouplers, Maximum 24VDC/20 mA
- **Interfaces:** RS232 and RS485 (adjustable)
- **Signal Generator:** 5 LED
- **Operation Temperature:** -20°C ~ 60°C • **Storage Temperature:** -25°C ~ 85°C

481-1064-ND (Texas Instruments # RR-IDISC-MR200-A) **$1468.91**

S4100 Multi-Function
Reader Module

Texas Instrument's RFid S4100 Multi-Function Reader communicates with transponders and vicinity/proximity cards compliant with ISO/IEC 14443 A/B and ISO/IEC 15693.

It also supports Texas Instrument's Low Frequency DST, Read-Only, and Read-Write Transponder at 134.2KHz, along with Tag-It High Frequency Transponder at 13.56MHz. This is accomplished through dedicated RF Analog Front End (AFE) sections controlled by a high-performance 8-bit Advanced RISC microcontroller with a Harvard architecture, onboard FLASH, EEPROM and SRAM.

The power and flexibility of this platform offer a scalable solution that can be fitted to a broad range of applications.

FEATURES:

- USART for I/O communication • Three general purpose I/O lines
- Dual frequency operation – 134.4KHz and 13.56MHz • Multi-Protocol – TI RFid LF products, TI RFid HF Tag-It, ISO 15693 and ISO14443 A/B
- Custom firmware downloadable • Scalability/Modular architecture
- Power On-Reset operation • Firmware upgradeable

SPECIFICATIONS:

- **Transmitter Power (HF):** 200mW • **Transmitter Peak-Current (LF):** 1.1 Amps peak
- **Antenna Impedance (HF):** 50Ω @ 13.56MHz • **Antenna Impedance (LF):** 440µH (Approximately)
- **Dimensions:** 69mm x 38mm x 10mm • **Supply Voltage:** 4.5V minimum 5.5V maximum
- **Operating Temperature:** -20°C ~ 70°C
- Optional interface cable is HF-06U-12-ND; mating connector is WM5701CT-ND

481-1052-ND (Texas Instruments # RF-MGR -MNMN-N3)... **$88.66**

(Continued)

Readers/Modules *(Cont.)*

S4100 Multi-Function Reader Evaluation Kit

The kit enables users to experience the MFR and its functions in a PC-based environment. The Base application allows users to execute standard read/write/lock commands, as well as experiment with anti-collision and multiple-technology environments.

With standard RS-232 and RS-485 serial I/O ports, the S4100 MFR is plug-and-play solution, ideal for logical access applications, as well as financial, ticketing, loyalty, access control, and others. The kit includes a platform independent software API, which facilitates development of PC-based software. This API is cross-compatible with other HF readers in the TI portfolio, including the S6500 Long-Range reader and the S6350 Mid-Range reader.

FEATURES:

- **Dual Frequency:** 134.2KHz, 13.56MHz
- **Multi-Protocol:** TI RFid LF Products, TI RFid HF Tag-It, ISO 15693, ISO 14443 A/B
- **2 Serial I/O Ports:** RS-232, RS-485 • Software Development API Included
- **Supply Voltage:** 9VDC

KIT INCLUDES:

- MFR-based Housed Reader
- Universal power supply
- Global power adapters
- RS-232 Communications cable
- Sample HF and LF Transponders
- Spare MFR module
- Software resource CD: Demo Software, Software Development API, Reference Manuals, additional Resources
- Getting Started Guide

481-1061-ND (Texas Instruments #RX-MFR-RNLK-00) **$625.00**

LF RFID-Evaluation Kit

This Low Frequency (134.2KHz) Evaluation Kit includes the Series 2000 Standard Reader with RS232 Interface, a stick antenna, a variety of transponder packages for Read Only, Read/Write, Multipage or Selective Addressable applications, plus demonstration software that runs on your desktop computer to allow you to experiment with all the features of the RFID system.

CONTENTS:

- S2000 Reader with RS232 Interface
- Stick Antenna
- Set of R/O, R/W, M/P Transponders in various packages
- PC Interface Cable
- CD with User Documentation and Demo Software
- Getting Started Guide
- 9V Power Supply Input 100V-240V, 1.5A with various main power connectors for international use

481-1038-ND (Texas Instruments # RI-K2A-001A-01) **$595.00**

LF Base Station IC

The LF base station allows efficient development and production of RFID readers for vehicle immobilizers. This base station IC drives the antenna of a TI-RFID transponder system to send data modulated on the antenna signal, and to detect and demodulate the response from the transponder. It also allows minimizing the external component count.

FEATURES:

- Self-adapting to transponders with a resonance frequency between 129 kHz ~ 140 kHz
- Power management for 5V operation
- Overcurrent protection of antenna driver

SPECIFICATIONS:

- **Operating Frequency:** Typical 134.2 kHz, FSK
- **Operating Voltage:** 4.5 - 5.5VDC
- **Operating Temperature:** -40°C ~ 85°C
- **Package/Pin Count:** SO16 (10 x 6mm)

Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	T&R Pricing 2,500	Texas Instruments Part No.
481-1063-1-ND	7.60	5.21	4.61	481-1063-2-ND	3892.00/M	RI-TMS3705ADR

LF Micro Evaluation Kit

This easy-to-use kit gives the opportunity to explore the capabilities of Texas Instruments 134.2KHz Radio Frequency Identification (RFID) technology TIRIS™.

The core of this LF Evaluation Kit is the CE and FCC approved Series 2000 Micro Reader which is mounted on an Interface Board combined with an antenna.

Various transponder samples and demonstration software that runs on your desktop computer allow you to experiment with all the features of the RFID system.

CONTENTS:

- S2000 Micro Reader RI-STU-MRD1 mounted on an Interface Board with RS232 IF Port, Power Connector and Antenna Connector
- Antenna
- 9-Pin D-Sub Cable (female-female connector)
- Various Transponder Samples
- CD with User Documentation and Demonstration Software
- Getting Started Guide
- 9V Power Supply Input 100V-240V, 1.5A with various main power connectors for international use

481-1039-ND (Texas Instruments # RI-K3A-001A-00) **$284.29**

TOSHIBA RF Wireless Evaluation Kit

The Evaluation kits allow for a detailed evaluation of the Transceivers and Receiver. They enable testing of the device's RF performance and require no additional support circuitry.

The RF input uses a 50 Ω matching network and an SMA connector for convenient connection to test equipment. The EV kit can also directly interface to the user's embedded design for easy data decoding.

For easy implementation into the customer's design, the kits also feature a proven PC board layout, which can be easily duplicated for quicker time to market.

Frequency	Digi-Key Part No.	Price Each	Toshiba Part No.
2.4GHz	TB32301EVKIT-ND	298.50	TB32301EVKIT
315MHz	TA31275EVKIT-315-ND	193.50	TA31275EVKIT-315
433MHz	TA31275EVKIT-433-ND	193.50	TA31275EVKIT-433
315MHz	TA32305EVKIT-315-ND	223.50	TA32305EVKIT-315
433MHz	TA32305EVKIT-433-ND	223.50	TA32305EVKIT-433

TB32301EVKIT Contents: • 2 TB32301M transceiver modules • 2 Controller boards • Interface board • Parallel cable • CD ROM with all design and application documentation

TA31275EVKIT Contents: • 1 TA31275M receiver module • 1 TA32305M transceiver module • 2 Antennas • CD ROM with all design and application documentation

TA32305EVKIT Contents: • 2 TA32305M transceiver modules • 2 Antennas • CD ROM with all design and application documentation

Transceivers and Receiver

Function	Frequency	Supply Voltage (V)	Package	Digi-Key Part No.	Cut Tape Pricing 1	10	Tape & Reel† Size	Pricing
Trans-ceiver	2.4GHz	2.7 ~ 3.3	36-QON	TB32301AFLCT-ND	5.06	40.50	2,000	2868.75/M
	240 ~ 450MHz	2.2 ~ 5.5	30-SSOP	TA32305FNGCT-ND	3.35	26.82	2,000	1899.75/M
Re-ceiver	100 ~ 450MHz	2.4 ~ 5.5	24-SSOP	TA31275FNGCT-ND	2.48	19.80	2,000	1287.00/M

† For Tape and Reel part number, change the CT-ND to TR-ND.

ZETEX SEMICONDUCTORS RF Amplifiers

Range of RF products which consist of RF amplifiers with a bandwidth of 850-2500MHz and GaAs bias ICs. The ZAMP series of low noise and medium power amplifiers provides a variety of gains which are either flat or rise across the band to eliminate cable losses; and they have been optimized to achieve high linearity at a low supply current. The inputs are matched to 50 ohms and outputs are matched to either 50 or 75 ohms.

Description	Package	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing
LNA, 18dB Gain, Low Current Amplifier	SC70-6	ZAMP001H6CT-ND	1.05	.91	.83	ZAMP001H6TR-ND	3,000	451.50/M
Medium Power, 22dB Gain, Wide Dynamic Range Amplifier	SC70-6	ZAMP002H6CT-ND	1.05	.91	.83	ZAMP002H6TR-ND	3,000	451.50/M
LNA, 15dB Gain, Very Low Current Amplifier	SC70-6	ZAMP003H6CT-ND	1.05	.91	.83	ZAMP003H6TR-ND	3,000	451.50/M
FET Bias Controller, 2 Stage	10-MSOP	ZNBG2000X10CT-ND	9.00	6.75	4.50	ZNBG2000X10TR-ND	1,000	2550.00
FET Bias Controller, 4 Stage	16-QSOP	ZNBG4000Q16CT-ND	9.00	6.75	4.50	ZNBG4000Q16TR-ND	2,500	2250.00/M
FET Bias Controller, 6 Stage	20-QSOP	ZNBG6000Q20CT-ND	13.50	10.13	6.75	ZNBG6000Q20TR-ND	2,500	3375.00/M

Logical Systems

Programming and Prototyping Adapters

Description	Recommended For Use With	Digi-Key Part No.	Price Each	Logical Systems Part No.
Programming Adapters				
8 Pin SOIC .150" Wide Socket to 8 Pin .300" Wide DIP Plug	PIC12(L)C508A, 509A; PIC12(L)CE518, 519	309-1045-ND	60.00	PA8SO1-03-3
8 Pin SOIC .150" Wide Socket to 8 Pin .600" Wide DIP Plug		309-1046-ND	60.00	PA8SO1-03-6
8 Pin SOIC .210" Wide Socket to 8 Pin .300" Wide DIP Plug	PIC12(L)C508A, 509A; PIC12(L)CE518, 519; PIC12C671, 672	309-1047-ND	70.00	PA8SO1-2006-3
8 Pin SOIC .210" Wide Socket to 8 Pin .600" Wide DIP Plug		309-1048-ND	70.00	PA8SO1-2006-6
14 Pin SOIC .150" Wide Socket to 14 Pin .300" Wide DIP Plug	PIC16C505	309-1000-ND	60.00	PA14SO1-03-3
14 Pin SOIC .150" Wide Socket to 14 Pin .600" Wide DIP Plug		309-1001-ND	60.00	PA14SO1-03-6
18 Pin SOIC .300" Wide Socket to 18 Pin .300" Wide DIP Plug	PIC16C52-58, 61, 554, 558, 621-625, 71, 710-717, F83, 84; PIC16HV510; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001	309-1010-ND	70.00	PA18SO1-08H-3
18 Pin SOIC .300" Wide Socket to 18 Pin .600" Wide DIP Plug		309-1011-ND	70.00	PA18SO1-08H-6
20 Pin SOIC .300" Wide Socket to 20 Pin .300" Wide DIP Plug	PIC16C770, 771	309-1012-ND	70.00	PA20SO1-08H-3
20 Pin SOIC .300" Wide Socket to 20 Pin .600" Wide DIP Plug		309-1013-ND	70.00	PA20SO1-08H-6
20 Pin SSOP Socket to 20 Pin .300" Wide DIP Plug		309-1014-ND	80.00	PA20SS-OT-3
20 Pin SSOP Socket to 18 Pin .600" Wide DIP Plug	PIC16C56(A), 58A(B), 554, 558, 620(A), 621, E623-E625, 710-717; PIC16HV540	309-1016-ND	80.00	PA20SS-P54
28 Pin SOIC .300" Wide Socket to 28 Pin .300" Wide DIP Plug	PIC14000; PIC16C55, 57, 62, 63, 66, 72, 73, 76, 642, 773, F872, F873, F876; PIC18C242, 252; Z86C(E)(L)30, 31, 33, 34, 35, 36, 83, 84; Z86233, 733	309-1023-ND	70.00	PA28SO1-08H-3
28 Pin SOIC .300" Wide Socket to 28 Pin .600" Wide DIP Plug		309-1024-ND	70.00	PA28SO1-08H-6
28 Pin SSOP Socket to 28 Pin .600" Wide DIP Plug	PIC14000, PIC16C62A(B), 63A, 72(A), 73B, 773, F872	309-1025-ND	80.00	PA28SS-OT-6
28 Pin SSOP Socket to 28 Pin .600" Wide DIP Plug	PIC16C55(A), 57(C)	309-1026-ND	80.00	PA28SS-P55
32 Pin PLCC Auto-Eject Socket to 28 Pin .600" Wide DIP Plug	AT27C(BV, LV) 512, 256, 128, 28BV64, 29C256, 28C17, 27C040	309-1089-ND	70.00	PA32-28
32 Pin PLCC Lidded ZIF Socket to 28 Pin .600" Wide DIP Plug		309-1090-ND	90.00	PA32-28Z
32 Pin PLCC Auto-Eject Socket to 32 Pin .600" Wide DIP Plug	AT27C010, 020, AT49F(BV,LV) 001, 002, 020, AT29C010, 020, 040A, 512	309-1091-ND	70.00	PA32-32
32 Pin PLCC Lidded ZIF Socket to 32 Pin .600" Wide DIP Plug		309-1092-ND	90.00	PA32-32Z
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug	AT89C51, 8051	309-1093-ND	115.00	PA51-44
44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug		309-1094-ND	135.00	PA51-44Z
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug	AT27C1024, 2048, 4096	309-1095-ND	115.00	PA280-44
44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug		309-1096-ND	135.00	PA280-44Z
44 Pin PQFP Socket to 40 Pin .600" Wide DIP Plug	PIC16C64A, 65A(B), 67, 662, 74A(B), 774, 77, F874, F877	309-1002-ND	165.00	PA16C64-QD-16
44 Pin TQFP Socket to 40 Pin .600" Wide DIP Plug		309-1003-ND	165.00	PA16C64-QD-03
44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug	PIC17C42(A), 43, 44	309-1007-ND	135.00	PA17C42-PDZ
44 Pin TQFP Socket to 40 Pin .600" Wide DIP Plug		309-1008-ND	165.00	PA17C42-QD-03
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug	PIC16C64A, 65A(B), 67, 662, 74A (B), 774, 77, F874, F877	309-1039-ND	115.00	PA44-40-P64-PD
44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug		309-1040-ND	135.00	PA44-40-P64-PDZ
DIP to PLCC Prototyping Adapters				
Emulator Adapter, 40 Pin DIP ZIF Socket to 44 Pin PLCC Plug	PIC16C64A, 65A(B), 67, 662, 74A(B), 774, 77, F874, F877	309-1031-ND	145.00	PA40-44-P64-DP
Emulator Adapter, 40 Pin DIP Socket to 44 Pin PLCC Plug		309-1032-ND	125.00	PA40-44-P64-DP-PP
PLCC to PLCC Prototyping Adapter				
44 Pin PLCC Auto-eject Socket to 44 Pin PLCC Plug. 1:1 Pinout	Z86C(E)21, 40, 43, 743, 44, 45, 46, 61	309-1041-ND	145.00	PA44-PP
44 Pin PLCC Lidded ZIF Socket to 44 Pin PLCC Plug. 1:1 Pinout		309-1042-ND	165.00	PA44-PZP
QFP to QFP Prototyping Adapters				
44 Pin TQFP Socket to 44 Pin Solder Down QFP Plug. 1:1 Pinout	N/A	309-1043-ND	360.00	PA44QF03-44QF
DIP to SO-Plug Prototyping Adapter Kits				
8 Pin .300" DIP Board. Two 8 Pin .250" SOIC Plugs	PIC12(L)C508A, 509A, DE518, CE519	309-1050-ND	19.60	PADSO-0803-D250-08/2
8 Pin .300" DIP Board. Two 8 Pin .310" SOIC Plugs	PIC12(L)C508A, 509A, CE518, CE519, 671, 672	309-1051-ND	19.60	PADSO-0803-D310-08/2
18 Pin .300" DIP Board with ZIF Socket. Two 18 Pin .420" SOIC Plugs	710-717, F83, F84(A), HV540; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001	309-1059-ND	38.60	PADSO1803Z-D420-18/2
28 Pin .300" DIP Board. Two 28 Pin .420" SOIC Plugs	PIC14000, PIC16C55(A), 57(C), 62A(B), 57(C), 62A(B), 63(A), 66,	309-1065-ND	33.60	PADSO-2803-D420-28/2
SOIC to SOIC Prototyping Adapters				
18 Pin SOIC .300" Socket to 18 Pin SOIC Connector	PIC16C52, 54(A)(C), 56(A), 58A(B), 61, 554, 558, 621, 620(A), CE623-CE625, 71, 710 -717, F83, F84(A), HV540; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001	309-1075-ND*	70.00	PA-SOD-2808-18
28 Pin SOIC .300" Socket to 28 Pin SOIC Connector	PIC14000, PIC16C55(A), 57(C), 62A(B), 63(A), 66, 72(A), 73A(B), 76, 642, 773, F872-F876; PIC18C242, 252, Z86C(E)(L)30, 31, 33, 34, 35, 36, 83, 84; Z86233, 733	309-1073-ND*	70.00	PA-SOD-2808-28

* Require SO-Plugs which must be ordered separately.

Description	Digi-Key Part No.	Price Each	Logical Systems Part No.
Additional DIP Boards			
28 Pin .300" DIP Board	309-1064-ND	24.00	PA-DSO-2803

Description	Digi-Key Part No.	Price Each	Logical Systems Part No.
Additional SO-Plugs			
18 Pin .420" Plugs (6 pieces)	309-1081-ND	22.80	PA-SOF-D420-18/6
28 Pin .420" Plugs (6 pieces)	309-1083-ND	28.80	PA-SOF-D420-28/6

XELTEK

Superpro Z

Universal Programmer Entry Level Programmer with Basic Support

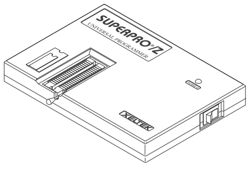

Features:• Supports over 3,000 devices including memories, microcontrollers and programmable logic. • Printer port interface • 40-pin ZIF socket, no adapters required for 300/600 mil DIP devices up to 40 pins • 40 optimized pin drivers-subset of universal functionality on every pin supports many devices at lowest possible cost • Device specific adapters support many devices that come in same package • Low voltage device support, down to 3V • Supported by: Windows 95, 98, 2000, NT, ME and XP • 1-year warranty • **Test:** TTL/CMOS, Memory, Vector, Test pattern edit, Audio Identify TT/CMOS Device • **Contents:** Programming unit, Power supply, DB-25 cable, User's guide and SuperPro software CD-ROM • **Programmer Dimensions:** 7.75" x 5.5" x .75" (196.85mm x 139.70mm x 19.05mm) • **Power Supply:** 100 to 240VAC input, 12V/1.5A Output • **Weight:** 4 pounds (1.81kg) • **Device Support List:** Online at www.digikey.com

415-1000-ND (SUPERPROZ) **$249.00**

Superpro 280U

USB Interfaced Universal Programmer

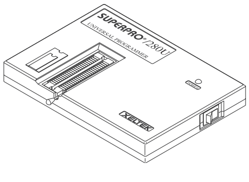

Features:

• Supports over 8,400 devices including memories, mcu and programmable logic. • USB Interface • 48-pin ZIF socket, no adapters required for 300/600 mil DIP devices up to 48 pins • Device specific adapters are available for parts in larger pin counts • Low voltage device support down to 1.5V • Free lifetime software upgrades • Supports Windows 98/ME/NT/2000/XP • 1-year warranty • **Test:** Standard logic devices and SRAM • Wrong chip insertion detection • **Contents:** Programming unit, Power supply, User's guide, USB cable and Superpro software CD-ROM

• **Device Support List:** Online at www.digikey.com

415-1006-ND (SUPERPRO280U)............................ **$549.00**

Superpro 580U

Advanced Portable Universal Programmer

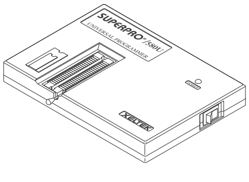

Features: • Over 11,000 devices supported including memories, microcontrollers and programmable logic. • USB Interface • 48-pin universal pin drivers, full functionality on every pin maximizes adapter flexibility • Universal adapters support all devices that come in same package- enables any new device in that package to be supported with free software updates via internet • Low voltage device support, down to 1.5V • Auto Sense and Batch mode simplifies and speeds up programming work flow • Supports Windows 95/98/ME/NT/2000/XP • 1-year warranty • **Test:** Standard TTL/CMOS logic IC and SRAM • **Contents:** Programming unit, Power supply, USB cable, User's guide and SuperPro software CD • **Dimensions:** 8.66" x 5.5" x .95" (220mm x140mm x 24mm) **Weight:** 4.41 pounds (2kg) • **Device Support List:** Online at www.digikey.com

415-1004-ND (SUPERPRO580U).............................. **$695.00**

XELTEK Superpro 3000U Ultra Fast 48-Pin Stand-Alone Universal Programmer

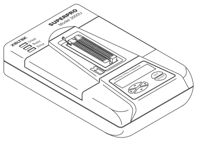

Features: • Supports over 12,000 devices including Memories, Microcontrollers, and Programmable logic • USB connectivity • 48-pin ZIF socket, no adapters required for 300/600 mil DIP devices up to 48 pins • 48 universal pin drivers, full functionality on every pin maximizes adapter flexibility • Optional 100-pin PEP Module delivers full functionality on every pin to enable programming of higher pin count devices • Low Voltage support, down to 1.5V for latest generation devices • Operates in stand-alone mode for programming and service • Built in LCD and Keypad for operation without PC • High speed operation, programs 32Mbit Flash in 14 sec • Auto Sense and Batch Mode simplifies and speeds up programming work flow • Supports Windows 95/98/ME/NT/2000/XP • 1-year warranty

Contents: • Programming unit, Power supply, USB cable, User's guide and SuperPro software CD-ROM • **Dimensions:** 9.5" x 5.9" x 2" (240mm x 150mm x 50mm) **Power Supply:** 100Vac ~ 240Vac Input, 12Vdc/2.5A Output • **Weight:** 5 lbs. (2.27kg) **Device Support list:** online at www.digikey.com

Description	Digi-Key Part No.	Price Each	Xeltek Part No.
High Performance Universal Programmer 48-Pin	415-1005-ND	995.00	SUPERPRO3000U

The Needhams line of programmers offers low-cost, high performance programming options for EPROMs, EEPROMs, Microcontrollers, PALs, Flash Memory and more. Each device comes with a free 1-year warranty, and free software upgrades. File formats supported include Binary, JEDEC, Intel Hex, Motorola S, Tek-Hex, and POF. Please see the matrix below for a programmer comparison.

Device Adapters

Description	Digi-Key Part No.	Price Each	Needham's Part No.
44-PSOP Adapter for EMP-11	E11-PSOPA-29-ND	90.00	E11-PSOPA-29
48-PSOP Adapter for EMP-11	E11-TSOPA-48-ND	125.00	E11-TSOPA-48
52-PSOP Adapter for EMP-11	E11-PSOPA-52-ND	90.00	E11-PSOPA-52
44-PSOP Adapter for EMP-11	E11-PSOPA-W-ND	90.00	E11-PSOPA-W
Socket Module for EMP-300, 20-PLCC	PLCC20-ND	105.00	PLCC20
Socket Module for EMP-300, 32-PLCC	PLCC32-ND	105.00	PLCC32
Socket Module for EMP-300, 44-PLCC	PLCC44-ND	110.00	PLCC44
Socket Module for EMP-300, 52-PLCC	PLCC52-ND	125.00	PLCC52
Socket Module for EMP-300, 48-TSOP	TSOP48-ND	125.00	TSOP48

Programmers

Description	Digi-Key Part No.	Price Each	Needham's Part No.
Device Programmer Parallel	EMP-11-ND	334.95	EMP-11
Device Programmer USB, Parallel	EMP-21-ND	649.95	EMP-21
Device Programmer Parallel	EMP-31-ND	1023.03	EMP-31
Device Programmer USB, Parallel	EMP-31USB-ND	1099.95	EMP-31USB
Device Programmer USB	EMP-300 110V-ND	1299.95	EMP-300 110V

Programmer Comparison

Needham's Part No.	Device Type	Device Support	System Requirements	PC Interface	Low Voltage Support	Socket	Included Family Modules	Program / Verify Times (PA28F800B5)
EMP-11	EPROMS, FLASH, 8051-style micros, Microchip PICS, GALs	7138+	IBM Compatible, PC 95, 98, 2000, or ME. 75Mb free hard drive space	Parallel	1.8V	40 Pin ZIF	4	70.67 Sec. / 50.23 Sec.
EMP-21	EPROMS, Gals, Microcontrollers, PLD, Flash, EEPROMS, Serial EEPROMs and more	9472+	IBM Compatible, PC 95, 98, 2000, ME, or XP. 75Mb free hard drive space	USB, Parallel	1.8V	48 Pin ZIF	20	36.5 Sec. / 28.22 Sec.
EMP-31 (USB)	EPROMS, Gals, Microcontrollers, PLD, Flash, EEPROMS, Serial EEPROMs and more	7000+	IBM Compatible, PC 98, 2000, ME, or XP. 40Mb free hard drive space.	USB, Parallel	1.8V	48 Pin ZIF	13	36.47 Sec. / 28.1 Sec.
EMP-300 110V	EPROMS, Gals, Microcontrollers, PLD, Flash, EEPROMS, Serial EEPROMS and more	10514+	IBM Compatible, PC 95, 98, 2000 ME, or XP. 40Mb free hard drive space.	USB	1.8V	48 Pin ZIF	13	7.8 Sec. / 1.9 Sec.

FS2003 - Portable High-Speed ISP Programmer for 8051 and AVR Microcontrollers

The FS2003 programmer supports high-speed In-System Programming (ISP) of many 8051 and Atmel AVR Microcontrollers. It can be utilized as standard in 'Standalone Mode' i.e. without a PC making it ideally suited for field-service and/or production ISP environments. The operator simply selects one of the 64 'Programming Projects' held locally on the programmer and then presses the 'Auto-program' key to program the target device. The FS2003 supports SPI and Boot loader UART ISP as standard and can be upgraded to support JTAG ISP.

Programming Modes: • Standalone Mode - Keypad + LCD (no PC) • Development Mode - Controlled via Equinox Development Suite (EDS) running on PC • Script Mode - Chargeable upgrade

In-System Programming Headers: • For SPI: Equinox 10-way, Atmel 10-way, Atmel 6-way IDC headers • For UART: Equinox 10-way header • For JTAG: Atmel 10-way IDC header

483-1003-ND		**$499.95**
483-1009-ND	Upgrade FS2003 JTAG ISP	**$299.95**

FS2000A - Portable ISP Programmer for Atmel AVR and AT89S Microcontrollers

The FS200A Programmer supports high-speed In-System Programming (ISP) of most Atmel AVR and AT89S FLASH microcontrollers. The programmer can be utilized as standard in 'Standalone Mode' i.e. not connected to a PC making it ideally suited to the field-service and/or Production ISP environments. The operator simply selects one of the 64 projects stored locally on the programmer and then presses a single 'Auto-program' button to program the target device. Each project is individually version controlled and CRC checked ensuring that the correct firmware is programmed every time.

Device Support: • Atmel AT90S, ATmega, ATtiny AVR Microcontroller Families • Atmel AT89S 51/52/53/ 8252 8051 Microcontrollers

******Not to be used for new designs. Please use the FS2003 Programmer******

483-1001-ND	**$499.95**

PPM3-MK2 Production ISP Programmer

This high-end Production Programmer is designed for high-speed In-System Programming (ISP) of programmable devices which are mounted on a Target System. It connects to the Target System by an I/O Connector Module which is interchangeable allowing the programmer to support any target connection scheme.

Features: • Fastest programming times possible due to on-board data, high-speed SPI and JTAG port • Supports FLASH, EEPROM, FUSE bits, Security bits and RC Oscillator Calibration bytes • 32Mbits of on-board non-volatile FLASH memory for user project storage (Standalone Mode) **Gang Programming Capability:** • Expandable from 1-16 programming channels • Each channel can program a Target System independently of the other programmers (full asynchronous programming) • An RS-485 Converter is required to implement multi-channel programming **Configured/ Controlled by Equinox-EQTools Software:** • Equinox Development Suite (EDS) • Project Builder-to create/edit Programming Projects • Project Manager-to create and maintain Project Collections • Project Upload/ Download Utility-to upload projects to the programmer for use in Standalone Mode **Supports all popular ISP headers to connect to the Target System:** • Interchangeable "I/O Connector Modules" support all popular ISP Header formats: • Atmel 10-way SPI Header (as per STK200/STK500) • Atmel 6-way SPI Header • Equinox 10-way SPI header with support for Slave Select and SCK2 • Atmel 10-way JTAG header (as per Atmel JTAG-ICE) • Equinox 10-way UART header for Atmel T89C51Rx2 (8051) and Philips P89C51 ISP FLASH microcontrollers • Fast Connect-clip-in wire connectors • Wire-wrap connectors

483-1002-ND		**$959.95**
483-1004-ND	PPM3-MK2 - Special Function Driver Module (replacement)	**$98.91**
483-1005-ND	PPM3-MK2 - I/O Connector Module 3 for Atmel ATmega JTAG ISP	**$108.73**
483-1006-ND	RS232 to RS485 Serial Communications Converter	**$199.95**
483-1007-ND	PPM3-MK2 - Atmel ATmega AVR - JTAG ISP Upgrade License	**$542.85**
483-1010-ND	PPM3-MK2 - Remote Application Control - Development Pack	**$1195.95**

Epsilon5 - Portable ISP Programmer

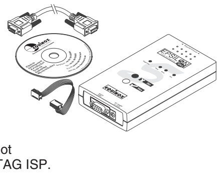

The Epsilon5 is a high-speed development/field/production programmer supporting many 8051 and Atmel AVR Microcontrollers. It can be operated under PC control during development and for project configuration/uploading. For field/production applications, the programmer is designed to work in 'Standalone Mode' i.e. no PC. The programmer comes complete with Equinox Development Suite (EDS), Project Builder/Manager and Project Upload Utility. All popular ISP Headers are catered for including 10-way Atmel/Equinox, 6-way Atmel and Atmel 10-way JTAG header. The programmer supports LV + HV SPI and Boot Loader (UART) ISP as standard and can be upgraded to support Atmel ATmega JTAG ISP.

483-1000-ND		**$249.95**
483-1008-ND	Upgrade Epsilon5 JTAG ISP AVR MCU	**$199.95**

Xilinx FPGA Power Management Systems

Xilinx power supply requirements for the core, I/O, and auxiliary power supplies include voltage outputs ranging from 1.2V to 5V and current outputs from tens of milliamps to multiple amperes. Depending on the system requirements, a linear or a switching regulator may be used to supply power to the FPGA.

STMicroelectronics makes both linear and switching regulators with a wide variety of output voltages and output current levels.
When power sequencing is needed, the following circuit will control the power-up and power-down sequence of the Vcc_{core} and the V_{cco} supply voltages.

Linear regulators are the best choice when board space is at a premium, low output noise is important or a fast response to inputs and transients is required. Linear regulators provide low to medium output currents (up to 3A) with a simple design approach.

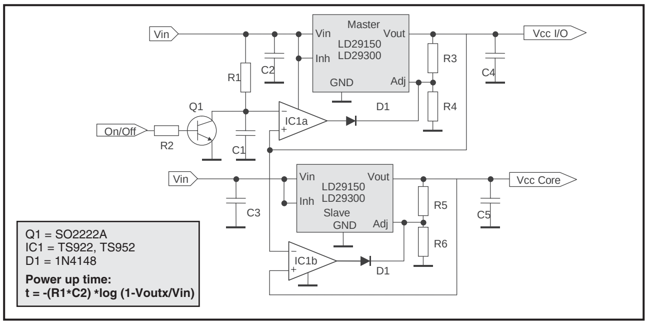

Q1 = SO2222A
IC1 = TS922, TS952
D1 = 1N4148
Power up time:
t = -(R1*C2) *log (1-Voutx/Vin)

Linear Solution

The above solution implements a controlled slew rate on power up and power sequencing for the core and I/O voltages. Both outputs rise and fall with the same slew rate, set by R1 and C1. t=-(R1*C2) *Log (1 - Vccx/Vin)

Note: Vout Master must be higher than Vout Slave

Switching regulators are best used when design efficiency is critical and/or large output currents are required (such as Spartan-3™ and Virtex-II™). Switching supplies are known for excellent efficiency, but the output is more susceptible to noise due to the switching nature of the regulator.

Switching regulators require inductors and input and output capacitors for DC-DC conversion.

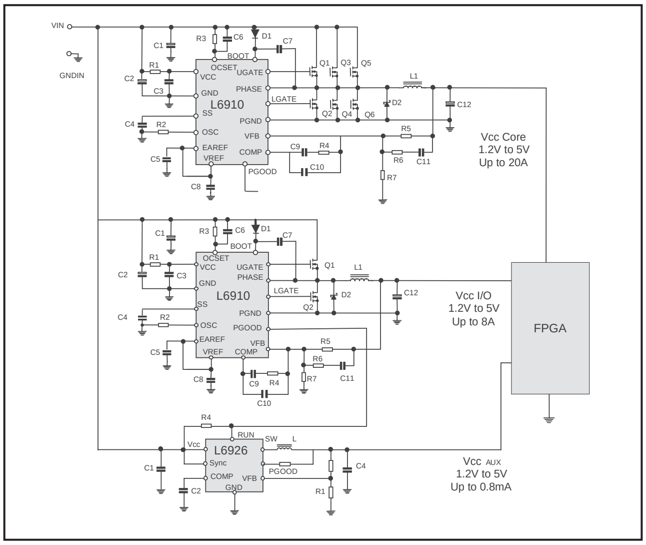

Switching Solution

The above solution provides a Core voltage range from 1.2V to 5V with a current up to 20A, an I/O voltage from 1.2V to 5V with a current capability up to 10A, and an auxiliary supply voltage from 1.2V to 5V up to 800mA.

STMicroelectronics Linear and Switching Voltage Regulators

Xilinx Part Number	LINEAR			SWITCHING		
Virtex-II™ Pro	**Vccint (1.5V)**	**Vccaux (2.5V)**	**Vcco★ (1.5V to 3.3V)**	**Vccint**	**Vccaux**	**Vcco★**
XC2VP2 to XC2VP30	KF15 or LD1117	L4931ABD25x	LD29300	L5970D	L6926D or L5970D	
XC2VP40 to XC2VP125	LD29150xx15	L4931ABD25x	LD29300	L5972D	L6926D or L5970D	
Virtex-II™	**Vccint (1.5V)**	**Vccaux (3.3V)**	**Vcco★ (1.5V to 3.3V)**	**Vccint**	**Vccaux**	**Vcco★**
XC2V40 to XC2V1000	L4931ABD15TR	LD2981Cxx33	L4931, LD29300	L4973 L6910	L6926D	L4973
XC2V1500 to XCE2V3000	KF15	LD2981Cxx33	L4931, LD29300	L4973 L6910	L6926D	L4973
XCE2V4000 to XCE2V8000	LD29150xx15	LD2981Cxx33	L4931, LD29300	L4973 L6910	L6926D	L4973
Virtex-EM™ and Virtex-E™	**Vccint (1.8V)**		**Vcco★ (1.2V to 3.3V)**	**Vccint**	**Vcco★**	
XCV50E (C) to XCV600E (C)	LF18Cxx		L4931	L5970D	L6926D or L5970D	
XCV812E (C) to XCV2000E (C)	LD1117Axx18		L4931	L5970D	L6926D or L5970D	
XCV2600E (C) to XCV3200E (C)	LD1086xx18		L4931	L5972D	L6926D or L5970D	
XCV50E (I) to XCV3200E (I)	LD1085xx18		L4931	L5973D	L6926D or L5970D	
Spartan-II™	**Vccint (2.5V)**		**Vcco★ (1.5V to 3.3V)**	**Vccint**	**Vcco★**	
XC2S15 to XC2S150 (0°C < Tj)	KF25xx		LFxx, KFxx	L5973D or L4973	L6926D	
XC2S15 to XC2S150 (Tj < 0°C)	LD1085xx25 / LD29300xx25		LFxx, KFxx	L5973D or L4973	L6926D	
Spartan-IIE™	**Vccint (1.8V)**		**Vcco★ (1.2V to 3.3V)**	**Vccint**	**Vcco★**	
XC2S50E (C) to XC2S600E (C)	LF18C, LD1086xx18, LD29150xx18		L4931	L5973D or L4973	L6926D or L5970D	
XC2S50E (I) to XC2S300E (I)	LF18C, LD1086xx18, LD29150xx18		L4931	L5973D or L4973	L6926D or L5970D	
XC2S400E (I) to XC2S600E (I)	LD1085xx18, LD29300xx18		L4931	L4973	L6926D or L5970D	
Spartan-3™	**Vccint (1.2V)**	**Vccaux (2.5V)**	**Vcco★ (1.2V to 3.3V)**	**Vccint**	**Vccaux**	**Vcco★**
XC3S50 to XC3S400	LD1117Axx12	KF25xx	LD29300	L4973	L6926D	L4973
XC3S1000 to XC3S2000	LD1117Axx12	KF25xx	LD29300	L4973, L6910	L6926D	L4973
XC3S4000 to XC3S5000	LD1117Axx12	KF25xx	LD29300	L4973, L6910	L6926D	L4973, L6910

★ The required I/O current will depend on several design specific factors, including I/O usage, loading, etc. Designers should use FPGA power estimator tools to determine the required Iccio current.

http://dkc3.digikey.com/PDF/Marketing/FPGA_Xilinx.pdf

XILINX® Spartan™ and Virtex Field Programmable Gate Arrays

The Spartan™-3 FPGA family is similar to the Spartan-IIE with increased logic resources, internal RAM capacity, total number of I/Os and overall performance.The **Spartan-XL** family is a high performance FPGA. The **Spartan™-II 2.5V** FPGA family gives users abundant logic resources, and a rich feature set. System performance is supported up to 200 MHz. The **Spartan™-IIE 1.8V** FPGA is similar to the Spartan-II family but operates at a lower voltage.

The **Virtex FPGA** delivers high performance, high capacity solutions. Virtex FPGAs are flexible alternatives to mask programmed gate arrays. System performance up to 200 MHz - 66 MHz PCI Compliant-Hot swappable for Compact PCI.

The **Virtex-E family** is up to 30% faster than the Virtex family. System performance up to 240 MHz using singled ended SelectI/O+™ technology. Virtex-E devices have up to 640 Kb of faster (250 MHz) block SelectRAM+™.

The Virtex-II™ Family features high performance interfaces to external memory and clock management, as well as flexible logic resources.

The Virtex-II Pro FPGA family incorporates embedded PowerPC™ processors and 3.125 Gbps RocketIO serial tranceivers. All Virtex Families are supported by FPGA Foundation™ and Alliance Development Systems.

Package	Gates	#CLB	I/O Pins	Operating Voltage (V)	Digi-Key Part No.	Price Each			Xilinx Part No.
						1	25	100	
NEW! SPARTAN-3 Series — RoHS Compliant NEW!									
256-FTBGA	200K	480	173	1.32 ~ 3.75	122-1338-ND	26.21	22.18	20.88	XC3S200-4FTG256C
208-PQFQ	200K	480	173	1.32 ~ 3.75	122-1339-ND	20.84	17.64	16.61	XC3S200-4PQG208C
144-TQFP	200K	480	173	1.32 ~ 3.75	122-1340-ND	15.47	13.09	12.33	XC3S200-4TQG144C
456-FBGA	400K	896	264	1.32 ~ 3.75	122-1341-ND	48.32	40.89	38.50	XC3S400-4FGG456C
256-FTBGA	400K	896	264	1.32 ~ 3.75	122-1342-ND	27.76	23.49	22.12	XC3S400-4FTG256C
456-FBGA	1M	1920	391	1.32 ~ 3.75	122-1333-ND	63.79	53.98	50.83	XC3S1000-4FGG456C
676-FBGA	1M	1920	391	1.32 ~ 3.75	122-1334-ND	87.91	74.39	70.04	XC3S1000-4FGG676C
256-FTBGA	1M	1920	391	1.32 ~ 3.75	122-1335-ND	47.87	40.51	38.14	XC3S1000-4FTG256C
456-FBGA	1.5M	3328	487	1.32 ~ 3.75	122-1336-ND	80.08	67.76	63.80	XC3S1500-4FGG456C
676-FBGA	1.5M	3328	487	1.32 ~ 3.75	122-1337-ND	123.85	104.80	98.68	XC3S1500-4FGG676C
NEW! SPARTAN-XL Series — RoHS Compliant NEW!									
100-VQFP	5K	100	77	3.3	122-1289-ND	8.92	7.55	7.11	XCS05XL-4VQG100C
144-TQFP	10K	196	112	3.3	122-1290-ND	19.57	16.56	15.59	XCS10XL-4TQG144C
100-VQFP	10K	196	112	3.3	122-1291-ND	15.83	13.40	12.62	XCS10XL-4VQG100C
208-PQFP	20K	400	160	3.3	122-1292-ND	26.66	22.57	21.25	XCS20XL-4PQG208C
144-TQFP	20K	400	160	3.3	122-1293-ND	22.93	19.41	18.27	XCS20XL-4TQG144C
144-TQFP	20K	400	160	3.3	122-1294-ND	27.57	23.34	21.97	XCS20XL-4TQG144I
100-VQFP	20K	400	160	3.3	122-1295-ND	19.29	16.33	15.37	XCS20XL-4VQG100C
208-PQFP	30K	576	192	3.3	122-1296-ND	29.85	25.26	23.78	XCS30XL-4PQG208C
144-TQFP	30K	576	192	3.3	122-1297-ND	27.66	23.41	22.04	XCS30XL-4TQG144C
144-TQFP	30K	576	192	3.3	122-1298-ND	33.12	28.03	26.39	XCS30XL-4TQG144I
100-VQFP	30K	576	192	3.3	122-1299-ND	25.12	21.26	20.01	XCS30XL-4VQG100C
208-PQFP	40K	784	224	3.3	122-1300-ND	34.58	29.26	27.55	XCS40XL-4PQG208C
208-PQFP	40K	784	224	3.3	122-1301-ND	41.50	35.12	33.06	XCS40XL-5PQG208C
SPARTAN-II Series									
144-TQFP	15K	96	86	2.5	122-1218-ND	10.89	9.08	8.15	XC2S15-5TQ144C
100-VQFP	15K	96	60	2.5	122-1309-ND◊ ***NEW!***	9.56	8.09	7.62	XC2S15-5VQG100C
144-TQFP	30K	216	92	2.5	122-1318-ND◊ ***NEW!***	15.56	13.17	12.40	XC2S30-5TQG144C
100-VQFP	30K	216	60	2.5	122-1222-ND	13.41	11.18	10.05	XC2S30-5VQ100C
256-FBGA	50K	384	176	2.5	122-1223-ND	22.23	18.53	16.65	XC2S50-5FG256C
256-FBGA	50K	384	176	2.5	122-1319-ND◊ ***NEW!***	22.48	19.02	17.91	XC2S50-5FGG256C
208-PQFP	50K	384	140	2.5	122-1320-ND◊ ***NEW!***	19.93	16.87	15.88	XC2S50-5PQG208C
144-TQFP	50K	384	92	2.5	122-1321-ND◊ ***NEW!***	17.29	14.63	13.78	XC2S50-5TQG144C
256-FBGA	100K	600	176	2.5	122-1226-ND	32.85	27.38	24.65	XC2S100-5FG256C
256-FBGA	100K	600	176	2.5	122-1302-ND◊ ***NEW!***	33.22	28.11	26.47	XC2S100-5FGG256C
256-FBGA	100K	600	176	2.5	122-1303-ND◊ ***NEW!***	38.22	32.34	30.45	XC2S100-5FGG256I
456-FBGA	100K	600	196	2.5	122-1227-ND	41.31	34.43	31.00	XC2S100-5FG456C
208-PQFP	100K	600	140	2.5	122-1304-ND◊ ***NEW!***	26.39	22.33	21.03	XC2S100-5PQG208C
144-TQFP	100K	600	92	2.5	122-1305-ND◊ ***NEW!***	23.75	20.10	18.93	XC2S100-5TQG144C
256-FBGA	150K	864	176	2.5	122-1230-ND	36.00	30.00	27.00	XC2S150-5FG256C
256-FBGA	150K	864	176	2.5	122-1306-ND◊ ***NEW!***	36.40	30.80	29.00	XC2S150-5FGG256C
456-FBGA	150K	864	260	2.5	122-1231-ND	46.80	39.00	35.10	XC2S150-5FG456C
456-FBGA	150K	864	260	2.5	122-1307-ND◊ ***NEW!***	47.32	40.04	37.70	XC2S150-5FGG456C
208-PQFP	150K	864	140	2.5	122-1308-ND◊ ***NEW!***	29.12	24.64	23.20	XC2S150-5PQG208C
256-FBGA	200K	1176	176	2.5	122-1310-ND◊ ***NEW!***	43.68	36.96	34.80	XC2S200-5FGG256C
256-FBGA	200K	1176	176	2.5	122-1311-ND◊ ***NEW!***	50.23	42.51	40.02	XC2S200-5FGG256I
456-FBGA	200K	1176	284	2.5	122-1233-ND	52.20	43.50	39.11	XC2S200-5FG456C
456-FBGA	200K	1176	284	2.5	122-1312-ND◊ ***NEW!***	52.78	44.66	42.05	XC2S200-5FGG456C
456-FBGA	200K	1176	284	2.5	122-1313-ND◊ ***NEW!***	60.70	51.36	48.36	XC2S200-5FGG456I
208-PQFP	200K	1176	140	2.5	122-1314-ND◊ ***NEW!***	35.40	29.96	28.21	XC2S200-5PQG208C
208-PQFP	200K	1176	140	2.5	122-1315-ND◊ ***NEW!***	40.68	34.42	32.41	XC2S200-5PQG208I
456-FBGA	200K	1176	284	2.5	122-1316-ND◊ ***NEW!***	60.70	51.36	48.36	XC2S200-6FGG456C
208-PQFP	200K	1176	140	2.5	122-1317-ND◊ ***NEW!***	40.68	34.42	32.41	XC2S200-6PQC208C
SPARTAN-IIE Series									
256-FBGA	50K	384	182	1.8	122-1328-ND◊ ***NEW!***	22.02	18.64	17.55	XC2S50E-6FTG256C
256-FBGA	50K	384	182	1.8	122-1329-ND◊ ***NEW!***	25.30	21.41	20.16	XC2S50E-6FTG256I
208-PQFP	50K	384	146	1.8	122-1330-ND◊ ***NEW!***	19.47	16.48	15.52	XC2S50E-6PQG208C
144-TQFP	50K	384	102	1.8	122-1331-ND◊ ***NEW!***	16.29	13.79	12.98	XC2S50E-6TQG144C
256-FBGA	100K	600	182	1.8	122-1322-ND◊ ***NEW!***	32.40	27.42	25.81	XC2S100E-6FTG256C
144-TQFP	100K	600	102	1.8	122-1206-ND	15.05	14.85	14.65	XC2S100E-6TQ144C
144-TQFP	100K	600	102	1.8	122-1462-ND◊ ***NEW!***	15.05	14.85	14.65	XC2S100E-6TQG144C
208-PQFP	100K	600	146	1.8	122-1207-ND	19.15	19.00	18.75	XC2S100E-6PQ208C
456-FPGA	200K	1176	289	1.8	122-1210-ND	37.50	37.25	36.70	XC2S200E-6FG456C
456-FBGA	200K	1176	289	1.8	122-1323-ND◊ ***NEW!***	50.23	42.51	40.02	XC2S200E-6FGG456C
208-PQFP	200K	1176	146	1.8	122-1324-ND◊ ***NEW!***	32.76	27.72	26.10	XC2S200E-6PQG208C
256-FBGA	300K	1536	182	1.8	122-1325-ND◊ ***NEW!***	63.61	53.83	50.68	XC2S300E-6FTG256C
208-PQFP	300K	1536	146	1.8	122-1326-ND◊ ***NEW!***	51.69	43.74	41.18	XC2S300E-6PQG208C
456-FBGA	400K	2400	329	1.8	122-1327-ND◊ ***NEW!***	123.40	104.42	98.31	XC2S400E-4FGG456C
456-FBGA	600K	3456	329	1.8	122-1332-ND◊ ***NEW!***	170.44	144.23	135.80	XC2S600E-6FGG456C
Virtex Series									
256-BGA	57K	384	180	2.5	122-1212-ND	66.45	59.50	51.40	XCV50-5BG256C
240-PQFP	57K	384	180	2.5	122-1213-ND	66.45	59.50	51.40	XCV50-5PQ240C
240-PQFP	108K	600	180	2.5	122-1214-ND	125.00	112.00	96.35	XCV100-5PQ240C
Virtex-E Series									
240-PQFP	71K	384	176	1.8	122-1215-ND	52.05	47.10	40.90	XCV50E-7PQ240C
352-BGA	128K	600	196	1.8	122-1216-ND	60.45	54.70	47.50	XCV100E-6BG352C

◊ ***RoHS Compliant***

(Continued)

XILINX® Spartan™ and Virtex Field Programmable Gate Arrays *(Cont.)*

Package	Gates	#CLB	I/O Pins	Operating Voltage (V)	Digi-Key Part No.	Price Each			Xilinx Part No.
						1	25	100	
NEW! Virtex-II Series — RoHS Compliant NEW!									
256-FBGA	250K	384	172	1.5	122-1352-ND	85.36	72.23	68.01	XC2V250-4FGG256C
256-FBGA	500K	768	172	1.5	122-1356-ND	143.96	121.82	114.70	XC2V500-4FGG256C
456-FBGA	500K	768	264	1.5	122-1357-ND	158.25	133.91	126.08	XC2V500-4FGG456C
575-BGA	1M	1280	328	1.5	122-1343-ND	240.24	203.28	191.40	XC2V1000-4BGG575C
896-FBGA	1M	1280	432	1.5	122-1344-ND	273.00	231.00	217.50	XC2V1000-4FFG896C
256-FBGA	1M	1280	172	1.5	122-1345-ND	209.30	177.10	166.75	XC2V1000-4FGG256C
456-FBGA	1M	1280	324	1.5	122-1346-ND	229.32	194.04	182.70	XC2V1000-4FGG456C
256-FBGA	1M	1280	172	1.5	122-1347-ND	293.02	247.94	233.45	XC2V1000-5FGG256C
456-FBGA	1M	1280	324	1.5	122-1348-ND	322.14	272.58	256.65	XC2V1000-5FGG456C
676-FBGA	1.5M	1920	392	1.5	122-1349-ND	323.96	274.12	258.10	XC2V1500-4FGG676C
896-FCBGA	2M	2688	624	1.5	122-1350-ND	553.28	468.16	440.80	XC2V2000-4FFG896C
676-FBGA	2M	2688	456	1.5	122-1351-ND	460.46	389.62	366.85	XC2V2000-4FGG676C
1152 -FCBGA	3M	3584	720	1.5	122-1353-ND	849.94	719.18	677.15	XC2V3000-4FFG1152C
676-FBGA	3M	3584	484	1.5	122-1354-ND	707.98	599.06	564.05	XC2V3000-4FGG676C
676-FBGA	3M	3584	484	1.5	122-1355-ND	991.90	839.30	790.25	XC2V3000-5FGG676C
1152-FCBGA	6M	8448	824	1.5	122-1358-ND	3157.70	2671.90	2515.75	XC2V6000-4FFG1152C
NEW! Virtex-II Pro Series — RoHS Compliant NEW!									
456-FBGA	6K	752	248	1.5	122-1451-ND	126.00	113.00	99.11	XC2VP4-5FGG456C
672-FCBGA	11K	1232	396	1.5	122-1370-ND	227.50	192.50	181.25	XC2VP7-5FFG672C
456-FBGA	11K	1232	248	1.5	122-1371-ND	189.28	160.16	150.80	XC2VP7-5FGG456C
672-FBGA	11K	1232	396	1.5	122-1452-ND	301.00	269.00	237.01	XC2VP7-6FFG672C
896-FCBGA	20K	2320	556	1.5	122-1360-ND	385.84	326.48	307.40	XC2VP20-5FFG896C
676-FBGA	20K	2320	404	1.5	122-1361-ND	322.14	272.58	256.65	XC2VP20-5FGG676C
896-FCBGA	20K	2320	556	1.5	122-1362-ND	540.54	457.38	430.65	XC2VP20-6FFG896C
676-FBGA	30K	3424	416	1.5	122-1363-ND	546.00	462.00	435.00	XC2VP30-5FGG676C
896-FCBGA	30K	3424	556	1.5	122-1365-ND	917.28	776.16	730.80	XC2VP30-6FFG896C
1152-FCBGA	30K	3424	644	1.5	122-1364-ND	955.50	808.50	761.25	XC2VP30-6FFG1152C
1152-FCBGA	40K	4848	692	1.5	122-1366-ND	1426.88	1207.36	1136.80	XC2VP40-6FFG1152C
1152-FCBGA	50K	5904	692	1.5	122-1367-ND	1588.86	1344.42	1265.85	XC2VP50-5FFG1152C
1152-FCBGA	50K	5904	692	1.5	122-1368-ND	2224.04	1881.88	1771.90	XC2VP50-6FFG1152C
1517-FCBGA	70K	8272	964	1.5	122-1369-ND	3397.94	2875.18	2707.15	XC2VP70-6FFG1517C
1704-FCBGA	100K	11024	1040	1.5	122-1359-ND	8399.30	7107.10	6691.75	XC2VP100-6FFG1704C

◊ ***RoHS Compliant***

NEW! Development and Starter Kits

The High-Volume Starter Kit Bundle includes the Spartan kit as well as the CPLD Design Kit and supports the Spartan-3, CoolRunner-II and XC9500XL Device Families.

Kit Bundle includes: • Development board • Universal Power Supply • Evaluation software • Design resources, including Introduction to Programmable Logic Design Quick Start and ISE 6 Software Interactive Tutorial for Xilinx CPLDs • Spartan-3 and CPLD Starter Kit Resource CDs • JTAG3 Programming cable

The Spartan-3 CPLD Design Kit with AA Battery Holder supports the CoolRunner-II and XC9500XL Device Families.

Kit Includes: • Prototyping board • XC2C256-7TQ144 CoolRunner-II CPLD • XC9572XL-10VQ44 CPLD • JTAG Cable • ISE WebPACK CD • Programmable Logic Handbook • Resource CD

Description	Digi-Key Part No.	Price Each	Xilinx Part No.
High-Volume Starter Kit Bundle	122-1471-ND	99.00	HW-SPAR3-CPLD-DK
Spartan-3 CPLD Design Kit	122-1472-ND	49.99	DO-CPLD-DK

Parallel Cable IV, PC4 / Platform Cable USB

The **Xilinx Parallel Cable IV** (PC4) is a high-speed download cable that configures or programs all Xilinx FPGA, CPLD, ISP PROM and System ACE MPM devices.
FEATURES: • Download speed of up to 5 Megabits per second (Mb/s) • In-System Programs configures all Xilinx devices: Virtex™ / Virtex-E / Virtex-II / Virtex-II Pro™, Spartan™ / Spartan-XL / Spartan-II / Spartan-IIE / Spartan-3, XC9500™ / XC9500XL / XC9500XV, CoolRunner™ (XPLA3) / CoolRunner-II, XC18V00™ ISP PROM family, XC4000XL™ / XV / EX / E, System ACE™ Multi-Package Module (MPM), Platform Flash PROM family

The **Xilinx Platform Cable USB** is a high-performance download cable that configures or programs ISP PROM, CPLD and FPGA devices. A sustained Slave-serial FPGA configuration rate of 24 Mb/s is possible in a high-speed USB environment. **FEATURES:** • Automatically senses and adapts to target I/O Voltage • Configures all Xilinx devices • LED status indicator

The **Xilinx FPGA Flying Lead Connector** provides pins on your printed circuit board for your desired configuration mode.

Description	Digi-Key Part No.	Price Each			Xilinx Part No.
		1	25	100	
Programming Cable for Xilinx Devices	122-1276-ND	135.00	112.50	101.25	HW-PC4
Platform Cable USB	122-1459-ND ***NEW!***	210.00	186.20	175.00	HW-USB
FPGA Flying Lead Connector	122-1473-ND ***NEW!***	18.67	—	—	HW-FLYLEADS

In-System Programmable CPLDs (Complex Programmable Logic Devices)

The **XC9500** CPLD family provides advanced in-system programming and test capabilities. All devices have a minimum of 10,000 program/erase cycles. Extensive IEEE 1149.1 (JTAG) boundary-scan support is also included on all family members. The XC9500 family is fully pin-compatible allowing easy design migration. Advanced system features include output slew rate control and user programmable ground pins to help reduce system noise. I/Os may be configured for 3.3V or 5V operation. All outputs provide 24mA drive.
The **FastFLASH XC9500XL** family is a 3.3V CPLD family targeted for high-performance, low-voltage applications.

The XC9500XL architectural features address t he requirements of in-system programmability. Each user pin is compatible with 5V, 3.3V, and 2.5V inputs, and the outputs may be configured for 3.3V or 2.5V operation. The XC9500XL device exhibits symmetric full 3.3V output voltage swing.
The CoolRunner™-II device is a 3.3V CPLD targeted at power sensitive designs that require leading edge programmable logic solutions. CoolRunner CPLDs offer a TotalCMOS™ solution, both in process technology and design technique. Xilinx employs a cascade of CMOS gates to implement its sum of products instead of the traditional sense amp approach.

Package	Macro-cells	Usable Gates	Registers	System Frequency MHz	Pin to Pin Delay T_{PD} (ns)	I/O Pins	Digi-Key Part No.	Price Each			Xilinx Part No.
								1	25	100	
5 Volt											
44-VQFP	36	800	36	100 (Min.)	5	34	122-1254-ND	9.80	9.10	8.45	XC9536-5VQ44C
44-PLCC	36	800	36	100 (Min.)	6	34	122-1253-ND	9.80	9.10	8.45	XC9536-6PC44C
44-PLCC	36	800	36	83 (Min.)	7.5	34	122-1169-ND	4.30	4.00	3.70	XC9536-7PC44C
44-VQFP	36	800	36	83 (Min.)	7.5	34	122-1170-ND	4.30	4.00	3.70	XC9536-7VQ44C
44-PLCC	36	800	36	66 (Min.)	10	34	122-1431-ND◊ ***NEW!***	3.40	3.15	2.90	XC9536-10PCG44C
44-VQFP	36	800	36	66 (Min.)	10	34	122-1432-ND◊ ***NEW!***	3.40	3.15	2.90	XC9536-10VQG44C
44-PLCC	36	800	36	55 (Min.)	15	34	122-1433-ND◊ ***NEW!***	3.30	3.05	2.85	XC9536-15PCG44C
44-VQFP	36	800	36	55 (Min.)	15	34	122-1434-ND◊ ***NEW!***	3.30	3.05	2.85	XC9536-15VQG44C
44-VQFP	36	800	36	55 (Min.)	15	34	122-1394-ND◊ ***NEW!***	4.46	3.78	3.56	XC9536-15VQ44I
84-PLCC	72	1600	72	83 (Min.)	7.5	69	122-1262-ND	14.20	12.02	10.35	XC9572-7PC84C
100-PQFP	72	1600	72	83 (Min.)	7.5	72	122-1447-ND◊ ***NEW!***	24.50	20.70	17.91	XC9572-7PQG100C
44-PLCC	72	1600	72	66 (Min.)	10	34	122-1439-ND◊ ***NEW!***	7.60	6.25	4.90	XC9572-10PCG44C
84-PLCC	72	1600	72	66 (Min.)	10	69	122-1440-ND◊ ***NEW!***	8.75	7.40	6.40	XC9572-10PCG84C

◊ ***RoHS Compliant***

(Continued)

In-System Programmable CPLDs (Complex Programmable Logic Devices *(Cont.)*

Package	Macro-cells	Usable Gates	Registers	System Frequency MHz	Pin to Pin Delay T_{PD} (ns)	I/O Pins	Digi-Key Part No.	Price Each			Xilinx Part No.
								1	25	100	
100-PQFP	72	1600	72	66 (Min.)	10	72	122-1174-ND	15.10	12.80	11.05	XC9572-10PQ100C
100-PQFP	72	1600	72	66 (Min.)	10	72	122-1441-ND◊ ***NEW!***	15.10	12.80	11.05	XC9572-10PQG100C
100-TQFP	72	1600	72	66 (Min.)	10	72	122-1442-ND◊ ***NEW!***	15.10	12.80	11.05	XC9572-10TQG100C
44-PLCC	72	1600	72	55 (Min.)	15	34	122-1171-ND	4.37	3.60	3.45	XC9572-15PC44C
44-PLCC	72	1600	72	55 (Min.)	15	34	122-1443-ND◊ ***NEW!***	5.35	4.35	3.45	XC9572-15PCG44C
84-PLCC	72	1600	72	55 (Min.)	15	69	122-1444-ND◊ ***NEW!***	6.10	5.15	4.45	XC9572-15PCG84C
100-PQFP	72	1600	72	55 (Min.)	15	72	122-1445-ND◊ ***NEW!***	10.55	8.95	7.70	XC9572-15PQG100C
100-TQFP	72	1600	72	55 (Min.)	15	72	122-1446-ND◊ ***NEW!***	10.55	8.95	7.70	XC9572-15TQG100C
84-PLCC	108	2400	108	83 (Min.)	7.5	69	122-1176-ND	28.65	24.25	20.95	XC95108-7PC84C
84-PLCC	108	2400	108	83 (Min.)	7.5	69	122-1247-ND	32.95	27.90	24.10	XC95108-7PC84I
100-PQFP	108	2400	108	83 (Min.)	7.5	81	122-1179-ND	36.70	31.05	26.80	XC95108-7PQ100C
100-TQFP	108	2400	108	83 (Min.)	7.5	81	122-1424-ND◊ ***NEW!***	36.70	31.05	26.80	XC95108-7TQG100C
84-PLCC	108	2400	108	66 (Min.)	10	69	122-1245-ND	20.45	17.30	14.95	XC95108-10PC84C
100-PQFP	108	2400	108	66 (Min.)	10	81	122-1461-ND◊ ***NEW!***	26.20	22.15	19.15	XC95108-10PQG100C
100-TQFP	108	2400	108	66 (Min.)	10	81	122-1421-ND◊ ***NEW!***	26.20	22.15	19.15	XC95108-10TQG100C
84-PLCC	108	2400	108	55 (Min.)	15	69	122-1460-ND◊ ***NEW!***	12.10	10.25	8.85	XC95108-15PCG84C
84-PLCC	108	2400	108	55 (Min.)	15	69	122-1246-ND	13.95	11.80	10.20	XC95108-15PC84I
100-TQFP	108	2400	108	55 (Min.)	15	81	122-1422-ND◊ ***NEW!***	15.50	13.10	11.35	XC95108-15TQG100C
100-TQFP	108	2400	108	50 (Min.)	20	81	122-1423-ND◊ ***NEW!***	14.10	11.95	10.30	XC95108-20TQG100C
100-PQFP	144	3200	144	66 (Min.)	10	81	122-1248-ND	28.76	24.30	21.02	XC95144-10PQ100C
100-PQFP	144	3200	144	66 (Min.)	10	81	122-1425-ND◊ ***NEW!***	28.75	24.30	21.00	XC95144-10PQG100C
100-PQFP	144	3200	144	55 (Min.)	15	81	122-1426-ND◊ ***NEW!***	17.10	14.50	12.50	XC95144-15PQG100C
100-TQFP	144	3200	144	55 (Min.)	15	81	122-1427-ND◊ ***NEW!***	17.10	14.50	12.50	XC95144-15TQG100C
160-PQFP	216	4800	216	66 (Min.)	10	133	122-1428-ND◊ ***NEW!***	49.70	42.05	36.30	XC95216-10PQG160C
160-PQFP	216	4800	216	55 (Min.)	15	133	122-1429-ND◊ ***NEW!***	31.85	26.95	23.30	XC95216-15PQG160C
160-PQFP	216	4800	216	50 (Min.)	20	133	122-1430-ND◊ ***NEW!***	22.75	19.25	16.65	XC95216-20PQG160C
3.3 Volt											
44-PLCC	36	800	36	178 (Max.)	5	34	122-1258-ND	2.18	1.85	1.75	XC9536XL-5PC44C
44-VQFP	36	800	36	178 (Max.)	5	34	122-1465-ND◊ ***NEW!***	2.18	1.85	1.75	XC9536XL-5VQG44C
44-VQFP	36	800	36	125 (Max.)	7.5	34	122-1437-ND◊ ***NEW!***	1.46	1.35	1.20	XC9536XL-7VQG44C
64-VQFP	36	800	36	125 (Max.)	7.5	36	122-1438-ND◊ ***NEW!***	2.32	1.91	1.50	XC9536XL-7VQG64C
44-PLCC	36	800	36	100 (Max.)	10	34	122-1255-ND	1.62	1.38	1.07	XC9536XL-10PC44C
64-VQFP	36	800	36	100 (Max.)	10	36	122-1435-ND◊ ***NEW!***	1.54	1.42	1.20	XC9536XL-10VQG64C
64-VQFP	36	800	36	100 (Max.)	10	36	122-1436-ND◊ ***NEW!***	1.93	1.78	1.50	XC9536XL-10VQG64I
44-VQFP	64	1500	64	95 (Max.)	6	36	122-1278-ND	5.10	4.29	4.00	XCR3064XL-10VQ44I
44-PLCC	72	1600	72	178 (Max.)	5	34	122-1267-ND	5.64	4.78	4.40	XC9572XL-5PC44C
100-TQFP	72	1600	72	178 (Max.)	5	72	122-1268-ND	7.19	6.09	5.60	XC9572XL-5TQ100C
44-VQFP	72	1600	72	178 (Max.)	5	34	122-1269-ND	5.64	4.78	4.40	XC9572XL-5VQ44C
44-PLCC	72	1600	72	125 (Max.)	7.5	34	122-1270-ND	4.37	3.70	3.00	XC9572XL-7PC44C
44-VQFP	72	1600	72	125 (Max.)	7.5	34	122-1449-ND◊ ***NEW!***	3.70	3.41	3.00	XC9572XL-7VQG44C
64-VQFP	72	1600	72	125 (Max.)	7.5	52	122-1450-ND◊ ***NEW!***	4.31	3.98	3.50	XC9572XL-7VQG64C
44-PLCC	72	1600	72	100 (Max.)	10	34	122-1263-ND	3.09	2.62	2.04	XC9572XL-10PC44C
44-PLCC	72	1600	72	178 (Max.)	5	34	122-1466-ND◊ ***NEW!***	3.09	2.62	2.04	XC9572XL-10PCG44C
44-VQFP	72	1600	72	100 (Max.)	10	3 4	122-1448-ND◊ ***NEW!***	2.62	2.42	2.04	XC9572XL-10VQG44C
144-TQFP	144	3200	144	178 (Max.)	5	117	122-1251-ND	16.85	15.40	14.20	XC95144XL-5TQ144C
44-VQFP	64	1500	64	192 (Max.)	10	36	122-1468-ND◊ ***NEW!***	4.10	3.49	3.20	XCR3064XL-10VQG44C
44-VQFP	64	1500	64	192 (Max.)	10	36	122-1469-ND◊ ***NEW!***	5.10	4.34	4.00	XCR3064XL-10VQG44I
100-VQFP	64	1500	64	192 (Max.)	10	100	122-1470-ND◊ ***NEW!***	5.28	4.50	4.15	XCR3064XL-10VQG100C
100-VQFP	64	1500	64	95 (Max.)	10	68	122-1284-ND◊ ***NEW!***	6.64	5.63	5.30	XCR3064XL-10VQ100I
100-VQFP	128	3000	128	95 (Max.)	5.5	84	122-1282-ND	9.46	7.98	7.39	XCR3128XL-10VQ100C
144-TQFP	256	6000	256	88 (Max.)	7.0	120	122-1283-ND	16.20	13.70	12.64	XCR3256XL-12TQ144C
NEW! CoolRunner-II — RoHS Compliant NEW!											
56-BGA	32	750	32	323 (Max.)	3.8	33	122-1403-ND	1.55	1.50	1.45	XC2C32A-3CPG56C
32-QFN	32	750	32	323 (Max.)	3.8	21	122-1412-ND	1.40	1.35	1.25	XC2C32A-6QFG32C
32-PLCC	32	750	32	323 (Max.)	3.8	33	122-1404-ND	1.40	1.35	1.25	XC2C32A-6VQG44C
48-QFN	64	1500	64	263 (Max.)	4.6	37	122-1419-ND	4.10	3.90	3.70	XC2C64A-5QFG48C
44-VQFP	64	1500	64	263 (Max.)	4.6	33	122-1420-ND	3.55	3.40	3.25	XC2C64A-5VQG44C
56-BGA	64	1500	64	263 (Max.)	4.6	45	122-1408-ND	2.80	2.70	2.55	XC2C64A-7CPG56C
48-QFN	64	1500	64	263 (Max.)	4.6	37	122-1418-ND	2.90	2.80	2.65	XC2C64A-7QFG48C
44-VQFP	64	1500	64	263 (Max.)	4.6	33	122-1410-ND	2.55	2.45	2.30	XC2C64A-7VQG44C
100-VQFP	64	1500	64	263 (Max.)	4.6	64	122-1409-ND	3.05	2.95	2.80	XC2C64A-7VQG100C
132-BGA	128	3000	128	244 (Max.)	5.7	100	122-1396-ND	7.35	7.05	6.65	XC2C128-7CPG132C
144-TQFP	128	3000	128	244 (Max.)	5.7	100	122-1397-ND	6.95	6.65	6.30	XC2C128-7TQG144C
100-VQFP	128	3000	128	244 (Max.)	5.7	80	122-1285-ND	8.19	6.93	6.53	XC2C128-7VQG100C
132-BGA	256	6000	256	256 (Max.)	5.7	106	122-1399-ND	16.95	16.25	15.40	XC2C256-7CPG132C
256-FTBGA	256	6000	256	256 (Max.)	5.7	184	122-1400-ND	15.45	14.80	14.05	XC2C256-7FTG256C
208-PQFP	256	6000	256	256 (Max.)	5.7	173	122-1411-ND	14.10	13.50	12.80	XC2C256-7PQG208C
144-TQFP	256	6000	256	256 (Max.)	5.7	118	122-1401-ND	13.65	13.10	12.40	XC2C256-7TQG144C
100-VQFP	256	6000	256	256 (Max.)	5.7	80	122-1402-ND	12.35	11.85	11.25	XC2C256-7VQG100C
256-FTBGA	384	9000	384	217 (Max.)	7.1	212	122-1414-ND	48.10	46.10	43.75	XC2C384-7FTG256C
256-FBGA	384	9000	384	217 (Max.)	7.1	212	122-1405-ND	34.35	32.95	31.26	XC2C384-10FTG256C
208-PQFP	384	9000	384	217 (Max.)	7.1	173	122-1413-ND	31.85	30.50	28.96	XC2C384-10PQG208C
144-TQFP	384	9000	384	217 (Max.)	7.1	118	122-1406-ND	23.85	22.90	21.70	XC2C384-10TQG144C
256-FTBGA	512	12000	512	179 (Max.)	7.1	212	122-1417-ND	66.60	63.85	60.56	XC2C512-7FTG256C
324-FBGA	512	12000	512	179 (Max.)	7.1	270	122-1415-ND	52.90	50.70	48.10	XC2C512-10FGG324C
256-FBGA	512	12000	512	179 (Max.)	7.1	212	122-1407-ND	47.55	45.60	43.25	XC2C512-10FTG256C
208-PQFP	512	12000	512	179 (Max.)	7.1	173	122-1416-ND	44.10	42.25	40.06	XC2C512-10PQG208C

◊ ***RoHS Compliant***

XILINX®

Programmable Gate Arrays

FPGA (Field Programmable Gate Arrays)

A Technical Overview:

Every Xilinx FPGA performs the function of a custom LSI circuit, like a gate array, but the Xilinx device is user-programmable and even reprogrammable in the system.

Xilinx sells standard off-the-shelf devices in many different sizes, speeds, operating temperature ranges and packages.

The user selects the appropriate Xilinx device and then converts the design idea or schematic into a configuration data file, using the Xilinx development ystem software, and loads this file into the Xilinx FPGA.

XC3000A

• Five device types (1300~7500 gates) • 4-input look-up tables • Flip-flop toggle rate over 110MHz • No on-chip RAM, data storage limited to flip-flops • Use for medium speed, medium complexity applications

XC3100A

• Functionally and bitstream identical with XC3000A series • Five device types (1300~7500 gates) • 4-input look-up tables • No on-chip RAM, data storage limited to flip-flops • Use for high performance design, system clock up to 100MHz

XC4000/XC4000A

• Benefits of custom CMOS VLSI • Gate ranges from 2,000 ~ 20,000 • Unlimited reprogrammability

XC4000E

• Ten device types (2,000~25,000 gates) • Dedicated carry network • Function generator can be used as RAM • Use for general purpose logic and data-path logic

XC4000L

• Low voltage version of XC4000E devices (3.0~3.6V)

XC4000XL

• Low voltage version of the XC4000EX devices (3.0~3.6V)

Package	Gates	#CLB	I/O Pins	Flip Flops	Operating Voltage (V)	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
XC3000A/XC3100A Series										
68-PLCC	2.0K	64	64	256	4.75 ~ 5.25	122-1009-ND	13.20	11.15	10.35	XC3020A-7PC68C
84-PLCC	3.0K	100	80	360	4.75 ~ 5.25	122-1018-ND	14.75	12.50	11.60	XC3030A-7PC84C
100-PQFP	3.0K	100	80	360	4.75 ~ 5.25	122-1019-ND	16.30	13.80	12.80	XC3030A-7PQ100C
84-PLCC	4.2K	144	96	480	4.75 ~ 5.25	122-1025-ND	19.20	16.25	15.10	XC3042A-7PC84C
100-PQFP	4.2K	144	96	480	4.75 ~ 5.25	122-1026-ND	21.10	17.85	16.60	XC3042A-7PQ100C
84-PLCC	6.4K	224	120	688	4.75 ~ 5.25	122-1029-ND	35.65	30.20	28.05	XC3064A-7PC84C
84-PLCC	3.0K	100	80	360	4.75 ~ 5.25	122-1040-ND	19.10	16.15	15.00	XC3130A-3PC84C
100-PQFP	3.0K	100	80	360	4.75 ~ 5.25	122-1041-ND	20.70	17.50	16.25	XC3130A-3PQ100C
100-PQFP	4.2K	144	96	480	4.75 ~ 5.25	122-1044-ND	25.80	21.80	20.26	XC3142A-3PQ100C
84-PLCC	9.0K	320	144	928	4.75 ~ 5.25	122-1046-ND	53.25	47.70	44.30	XC3190A-3PC84C
144-TQFP	4.5K	224	120	688	4.75 ~ 5.25	122-1084-ND	37.60	31.85	29.55	XC3164A-3TQ144C
XC4000/XC4000A Series										
160-PQFP	5.0K	196	112	616	4.75 ~ 5.25	122-1050-ND	105.00	96.55	89.65	XC4005-5PQ160C
84-PLCC	3.0K	100	61	360	4.75 ~ 5.25	122-1066-ND	55.60	51.30	47.60	XC4003-6PC84C
208-PQFP	8.0K	324	144	936	4.75 ~ 5.25	122-1070-ND	182.00	168.00	156.00	XC4008-5PQ208C
XC4000E Series										
84-PLCC	3.0K	100	80	360	4.75 ~ 5.25	122-1086-ND	23.70	21.85	20.30	XC4003E-4PC84C
100-PQFP	3.0K	100	77	360	4.75 ~ 5.25	122-1087-ND	33.30	30.70	28.50	XC4003E-3PQ100C
84-PLCC	5.0K	196	61	616	4.75 ~ 5.25	122-1180-ND	26.65	24.75	23.00	XC4005E-4PC84C
100-PQFP	5.0K	196	112	616	4.75 ~ 5.25	122-1089-ND	53.35	49.20	45.65	XC4005E-3PQ100C
160-PQFP	5.0K	196	112	616	4.75 ~ 5.25	122-1090-ND	55.60	51.25	47.60	XC4005E-3PQ160C
160-PQFP	5.0K	196	112	616	4.75 ~ 5.25	122-1091-ND	42.75	39.45	36.61	XC4005E-4PQ160C

Package	Gates	#CLB	I/O Pins	Flip Flops	Operating Voltage (V)	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
208-PQFP	6.0K	256	128	768	4.75 ~ 5.25	122-1094-ND	99.00	76.20	65.84	XC4006E-3PQ208C
208-PQFP	6.0K	256	128	768	4.75 ~ 5.25	122-1095-ND	63.60	58.65	54.45	XC4006E-4PQ208C
160-PQFP	8.0K	324	144	936	4.75 ~ 5.25	122-1098-ND	72.25	66.65	61.90	XC4008E-4PQ160C
84-PLCC	10.0K	400	160	1120	4.75 ~ 5.25	122-1101-ND	81.10	75.30	70.00	XC4010E-3PC84C
84-PLCC	10.0K	400	160	1120	4.75 ~ 5.25	122-1102-ND	62.35	57.90	53.85	XC4010E-4PC84C
160-PQFP	10.0K	400	160	1120	4.75 ~ 5.25	122-1103-ND	109.00	101.00	93.36	XC4010E-3PQ160C
208-PQFP	10.0K	400	160	1120	4.75 ~ 5.25	122-1105-ND	176.00	162.01	150.00	XC4010E-2PQ208C
208-PQFP	10.0K	400	160	1120	4.75 ~ 5.25	122-1106-ND	130.00	120.01	111.00	XC4010E-3PQ208C
208-PQFP	10.0K	400	160	1120	4.75 ~ 5.25	122-1107-ND	100.00	92.31	85.70	XC4010E-4PQ208C
160-PQFP	13.0K	576	192	1536	4.75 ~ 5.25	122-1109-ND	102.00	94.40	87.80	XC4013E-4PQ160C
208-PQFP	13.0K	576	160	1536	4.75 ~ 5.25	122-1111-ND	223.00	207.03	193.00	XC4013E-2PQ208C
208-PQFP	13.0K	576	160	1536	4.75 ~ 5.25	122-1112-ND	165.00	163.02	143.01	XC4013E-3PQ208C
208-HQFP	20.0K	784	224	2016	4.75 ~ 5.25	122-1114-ND	286.00	266.01	247.01	XC4020E-2HQ208C
240-HQFP	20.0K	784	193	2016	4.75 ~ 5.25	122-1116-ND	444.00	410.00	380.00	XC4020E-2HQ240C
240-HQFP	20.0K	784	193	2016	4.75 ~ 5.25	122-1117-ND	329.00	303.00	282.00	XC4020E-3HQ240C
XC4000L Series										
84-PLCC	5.0K	196	61	616	3.0 ~ 3.6	122-1120-ND	29.50	27.40	25.45	XC4005L-5PC84C
100-PQFP	5.0K	196	81	616	3.0 ~ 3.6	122-1121-ND	45.75	42.15	39.15	XC4005L-5PQ100C
208-PQFP	5.0K	196	112	616	3.0 ~ 3.6	122-1122-ND	51.50	47.50	44.11	XC4005L-5PQ208C
84-PLCC	10.0K	400	61	1120	3.0 ~ 3.6	122-1123-ND	72.00	66.85	62.20	XC4010L-5PC84C
208-PQFP	13.0K	576	160	1536	3.0 ~ 3.6	122-1125-ND	169.00	157.00	146.00	XC4013L-5PQ208C
XC4000XL Series										
240-HQFP	36.0K	1296	193	3168	3.0 ~ 3.6	122-1129-ND	377.00	338.01	292.00	XC4036XL-1HQ240C
240-HQFP	36.0K	1296	193	3168	3.0 ~ 3.6	122-1130-ND	279.00	250.00	216.00	XC4036XL-2HQ240C

Serial Configuration Proms

Package	Memory Size	Volt-age	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
8-Dip	248K	5	122-1272-ND	9.85	8.30	7.20	XC17S30PD8C
8-Dip	330K	5	122-1275-ND	11.85	10.00	8.65	XC17S40PD8C
8-Dip	330K	3.3	122-1467-ND◊ ***NEW!***	7.30	6.15	5.30	XC17S40XLPDG8C
8-Dip	36K	5	122-1187-ND	3.45	2.95	2.55	XC1736EPD8C
8-SOIC	36K	5	122-1189-ND	4.15	3.50	3.05	XC1736ESO8C
8-SOIC	36K	5	122-1192-ND	4.15	3.50	3.05	XC1736EVO8C
8-Dip	65K	5	122-1188-ND	4.00	3.40	2.95	XC1765EPD8C
8-SOIC	65K	5	122-1190-ND	4.80	4.05	3.50	XC1765ESO8C
8-SOIC	65K	5	122-1193-ND	4.80	4.05	3.50	XC1765EVO8C
8-SOIC	65K	3	122-1194-ND	5.45	4.60	4.00	XC1765ELVO8C
8-Dip	128K	5	122-1191-ND	6.00	5.40	5.00	XC17128EPD8C
8-SOIC	128K	5	122-1195-ND	6.90	6.20	5.75	XC17128EVO8C
8-SOIC	128K	3	122-1196-ND	6.15	5.50	5.10	XC17128ELVO8C
20-PLCC	128K	5	122-1197-ND	6.90	6.20	5.75	XC17128EJC20C
8-Dip	128K	3	122-1198-ND	5.35	4.75	4.45	XC17128ELPD8C
8-Dip	256K	5	122-1199-ND	11.45	10.25	9.50	XC17256EPD8C
8-SOIC	256K	5	122-1200-ND	13.60	12.20	11.30	XC17256EVO8C
8-Dip	256K	3	122-1201-ND	7.95	7.35	6.85	XC17256ELPD8C
8-SOIC	256K	3	122-1202-ND	8.55	7.95	7.40	XC17256ELVO8C
20-PLCC	256K	5	122-1203-ND	13.60	12.20	11.30	XC17256EPC20C
20-PLCC	512K	3.3	122-1239-ND	16.40	13.85	11.95	XC18V512PC20C

Package	Memory Size	Volt-age	Digi-Key Part No.	Price Each 1	25	100	Xilinx Part No.
20-SOIC	512K	3.3	122-1240-ND	16.40	13.85	11.95	XC18V512SO20C
44-PQFP	512K	3.3	122-1241-ND	16.40	13.85	11.95	XC18V512VQ44C
20-PLCC	1.0M	3.3	122-1236-ND	20.00	16.95	14.65	XC18V01PC20C
20-PLCC	1.0M	3.3	122-1463-ND◊ ***NEW!***	20.00	16.95	14.65	XC18V01PCG20C
20-SOIC	1.0M	3.3	122-1237-ND	20.00	16.95	14.65	XC18V01SO20C
20-SOIC	1.0M	3.3	122-1464-ND◊ ***NEW!***	20.00	16.95	14.65	XC18V01SOG20C
44-PQFP	1.0M	3.3	122-1238-ND	20.00	16.95	14.65	XC18V01VQ44C
44-PLCC	2.0M	3.3	122-1235-ND	23.10	21.45	19.95	XC18V02PC44C
44-PQFP	2.0M	3.3	122-1279-ND	23.10	21.45	19.95	XC18V02VQ44C
44-PLCC	4.0M	3.3	122-1274-ND	36.40	30.80	26.60	XC18V04PC44C
44-PQFP	4.0M	3.3	122-1280-ND	36.40	30.80	26.00	XC18V04VQ44C
20-TSSOP	1.0M	3.3	122-1286-5-ND◊ ***NEW!***	4.28	3.62	3.41	XCF01SVOG20C
20-TSSOP	2.0M	3.3	122-1287-5-ND◊ ***NEW!***	5.73	4.86	4.57	XCF02SVOG20C
20-TSSOP	4.0M	3.3	122-1288-5-ND◊ ***NEW!***	9.37	7.94	7.47	XCF04SVOG20C
48-FBGA	8.0M	1.8	122-1453-ND◊ ***NEW!***	12.10	11.80	11.45	XCF08PFSG48C
48-TSOP	8.0M	1.8	122-1454-5-ND◊ ***NEW!***	12.10	11.80	11.45	XCF08PVOG48C
48-FBGA	16.0M	1.8	122-1455-ND◊ ***NEW!***	16.15	15.75	15.30	XCF16PFSG48C
48-TSOP	16.0M	1.8	122-1456-5-ND◊ ***NEW!***	16.15	15.75	15.30	XCF16PVOG48C
48-FBGA	32.0M	1.8	122-1457-ND◊ ***NEW!***	26.25	25.65	24.91	XCF32PFSG48C
48-TSOP	32.0M	1.8	122-1458-5-ND◊ ***NEW!***	26.25	25.65	24.91	XCF32PVOG48C

◊ ***RoHS Compliant***

ROMAN-JONES, INC. Xilinx Serial PROM Programmer

The Xilinx Serial PROM Programmer provides a low cost alternative for programming any Xilinx XC17xx Family Serial PROM devices. The programmer product consists of an external programmer and associated interface software. The programmer and software have been tested and certified by Xilinx.

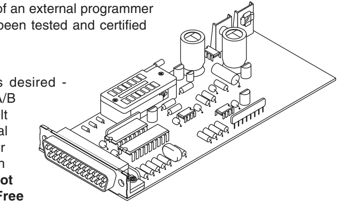

FEATURES:

• Parallel port interface which can be directly connected (if cable is desired - recommend M7PSG-2506J-ND) • Co-exists with printers using an A/B switchbox • No special interface cards required • Operates on 9 volt battery (not included, recommend P145-ND) • Supports ALL Xilinx Serial PROMs • Simple user interface. Easy to use software • Supported under DOS 2.2 or greater, Windows 95/98 and Windows NT 4.0 • Supports both Intel Hex and Binary files generated by Xilinx compilers • **Software not included. Requires downloading from www.roman-jones.com • Free updates also available via FTP download**

Description	Digi-Key Part No.	Price Each
Programmer		
SPROM Programmer with 8-Dip ZIF Socket	SPROM-TZS-ND	139.95
Adapters		
8-Pin Dip to 8-Pin SOIC/VOIC	SA1-ND	44.95
8-Pin Dip to 44-Pin VQFP	SA2-ND	95.95
8-Pin Dip to 20-Pin PLCC	SA3-ND	49.95
8-Pin Dip to 20-Pin SOIC	SA4-ND	54.95
8-Pin Dip to 44-Pin PLCC	SA5-ND	64.95

C

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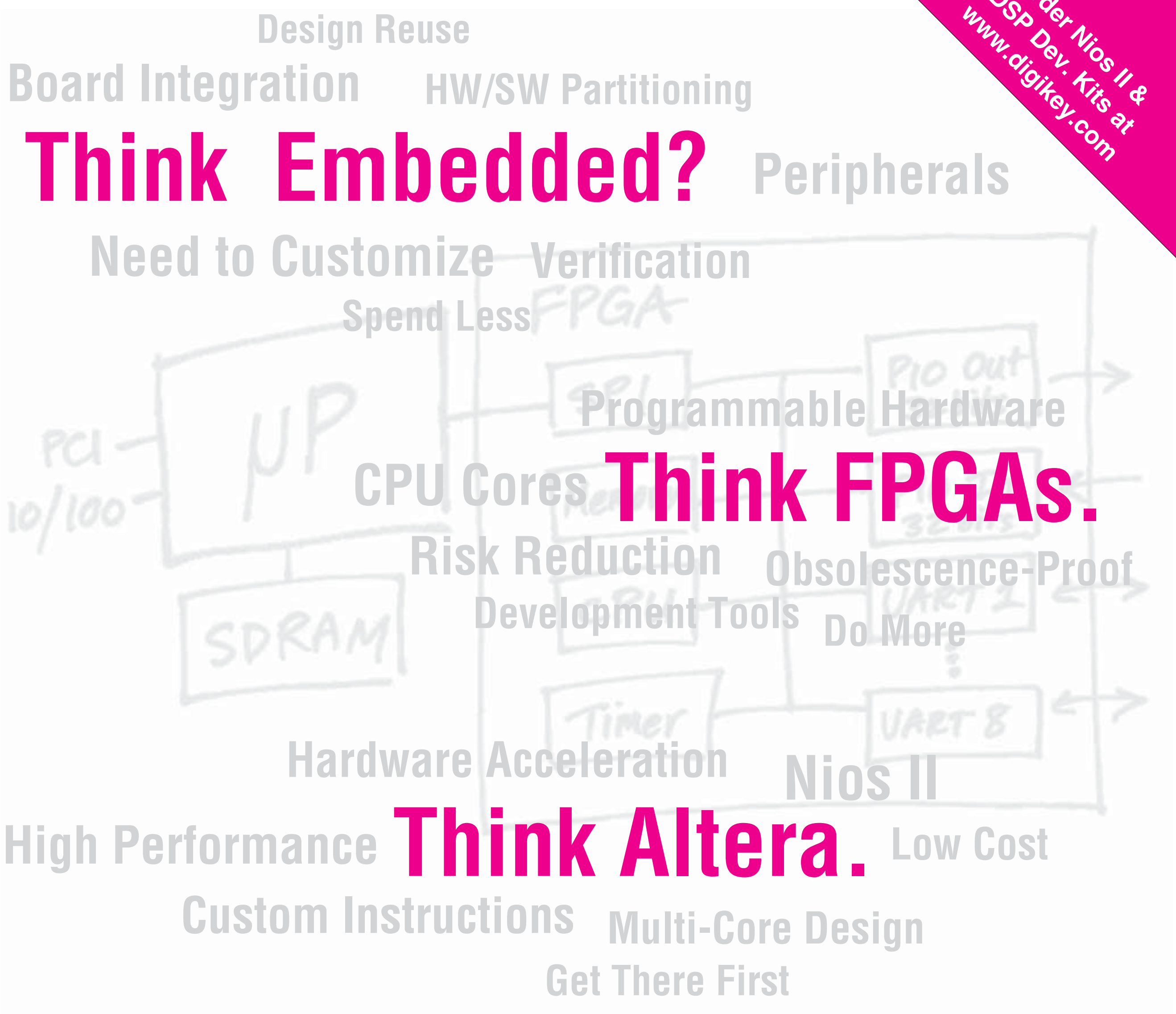

When it's time to design your next embedded system, think Altera. Use our FPGAs for coprocessing or peripheral expansion for your CPU. Or use our Nios® II soft-core processor to quickly create your own stand-alone custom microcontroller. Either way, Altera offers the flexibility to improve your team's productivity and time-to-market while lowering system cost and reducing the risk of obsolescence.

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- **Support for industry-standard tools and operating systems**

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ALTERA® FPGAs

ACEX:
High-performance embedded RAM blocks that can implement dual-port RAM, ROM, FIFO or logic
- 64-bit, 66-MHz PCI support
- PLLs for clock management
- ClockBoost® feature to multiply the system clock inside the ACEX 1K device
- MultiVolt™ I/O operation

APEX:
With devices ranging from 30,000 to 1.5 million system gates and clock rates up to 840MHz, Altera's APEX™ 20K FPGA family offers complete system-level integration on a single device, leading to extensive cost and performance advantages.

CYCLONE/CYCLONE II:
A low-cost alternative to ASIC's. Cyclone provides a flexible, risk-free option without up-front non-recurring engineering charges. A low-cost solution unmatched by any other FPGA Cyclone II devices offer advanced features such as embedded 18x18 multipliers for high-performance (DSP) applications and support for memory interfaces such as DDR2 (up to 334 Mbps) and QDRII (up to 668 Mbps).

STRATIX:
The device family is based on a 1.5V, 0.13-µm, all-layer-copper process
- up to 79,040 logic elements
- 7 Mbits of embedded memory, optimized (DSP) blocks, and high-performance I/O capabilities.

STRATIX II:
Based on a 1.2V, 90 nm, SRAM process, with densities from 15,600 to 179,400 logic elements. Up to 9 Mbits of on-chip RAM. Up to 12 PLLs and 16 global clock networks. Up to 384 embedded multipliers in DSP blocks, source-synchronous differential signaling with dedicated (DPA) circuitry operating at up to 1.040 Gbps.
- Dedicated serializer/deserializer (SERDES) circuitry to support the LVDS and HyperTransport™ differential I/O electrical standards, supports 10 Gigabit Ethernet XSBI, SFI-4, SPI-4.2, HyperTransport, RadioIO™ and UTOPIA IV standards.

FLEX 10K®:
Embedded programmable logic family delivers the flexibility of traditional programmable logic together with the efficiency and density of embedded gate arrays. Ranging from 10,000 to 250,000 typical gates, and up to 204-MHz system speed. FLEX 10K devices are specifically designed to meet the demands of mid-density gate array designs.

FLEX 6000®:
Programmable logic device family delivers the flexibility and time-to-market of programmable logic at prices that are competitive with gate arrays. Featuring the industry's most efficient architecture (OptiFLEX, FLEX 6000 devices provide a flexible and cost-effective alternative to ASICs for high-volume production.

Package	Gates	I/O Pins	Operating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
ACEX								
208-PQFP	100,000	147	2.5V	49,152	Fast	544-1000-ND	63.00	EP1K100QC208-1
208-PQFP	100,000	147	2.5V	49,152	Medium	544-1001-ND	43.00	EP1K100QC208-2
208-PQFP	100,000	147	2.5V	49,152	Slow	544-1002-ND	31.50	EP1K100QC208-3
208-PQFP	100,000	147	2.5V	49,152	Medium	544-1003-ND	60.00	EP1K100QI208-2
208-PQFP	30,000	147	2.5V	24,576	Fast	544-1004-ND	33.50	EP1K30QC208-1
208-PQFP	30,000	147	2.5V	24,576	Medium	544-1005-ND	22.50	EP1K30QC208-2
208-PQFP	30,000	147	2.5V	24,576	Slow	544-1006-ND	16.75	EP1K30QC208-3
208-PQFP	50,000	147	2.5V	40,960	Fast	544-1007-ND	45.00	EP1K50QC208-1
208-PQFP	50,000	147	2.5V	40,960	Medium	544-1008-ND	30.50	EP1K50QC208-2
208-PQFP	50,000	147	2.5V	40,960	Slow	544-1009-ND	22.50	EP1K50QC208-3
208-PQFP	50,000	147	2.5V	40,960	Medium	544-1010-ND	45.00	EP1K50IC208-2
256-FBGA	100,000	186	2.5V	49,152	Fast	544-1022-ND	79.00	EP1K100FC256-1
256-FBGA	100,000	186	2.5V	49,152	Medium	544-1023-ND	53.00	EP1K100FC256-2
256-FBGA	100,000	186	2.5V	49,152	Slow	544-1024-ND	39.50	EP1K100FC256-3
256-FBGA	100,000	186	2.5V	49,152	Medium	544-1025-ND	79.00	EP1K100FI256-2
256-FBGA	10,000	136	2.5V	12,288	Slow	544-1026-ND	13.00	EP1K10FC256-3
100-TQFP	10,000	66	2.5V	12,288	Slow	544-1027-ND	8.80	EP1K10TC100-3
256-FBGA	30,000	171	2.5V	24,576	Fast	544-1028-ND	38.00	EP1K30FC256-1
256-FBGA	30,000	171	2.5V	24,576	Slow	544-1029-ND	19.00	EP1K30FC256-3
256-FBGA	50,000	186	2.5V	40,960	Fast	544-1030-ND	57.00	EP1K50FC256-1
256-FBGA	50,000	186	2.5V	40,960	Medium	544-1031-ND	38.50	EP1K50FC256-2
256-FBGA	50,000	186	2.5V	40,960	Slow	544-1032-ND	28.50	EP1K50FC256-3
256-FBGA	50,000	186	2.5V	40,960	Medium	544-1033-ND	57.00	EP1K50FI256-2
484-FBGA	100,000	333	2.5V	49,152	Fast	544-1060-ND	103.00	EP1K100FC484-1
484-FBGA	100,000	333	2.5V	49,152	Medium	544-1061-ND	69.00	EP1K100FC484-2
484-FBGA	100,000	333	2.5V	49,152	Slow	544-1062-ND	52.00	EP1K100FC484-3
484-FBGA	100,000	333	2.5V	49,152	Medium	544-1063-ND	97.00	EP1K100FI484-2
144-TQFP	10,000	92	2.5V	12,288	Slow	544-1064-ND	10.25	EP1K10TC144-3
144-TQFP	30,000	102	2.5V	24,576	Fast	544-1065-ND	29.00	EP1K30TC144-1
144-TQFP	30,000	102	2.5V	24,576	Medium	544-1066-ND	19.75	EP1K30TC144-2
144-TQFP	30,000	102	2.5V	24,576	Slow	544-1067-ND	14.50	EP1K30TC144-3
144-TQFP	30,000	102	2.5V	24,576	Medium	544-1068-ND	29.00	EP1K30TI144-2
484-FBGA	50,000	249	2.5V	40,960	Fast	544-1069-ND	72.00	EP1K50FC484-1
484-FBGA	50,000	249	2.5V	40,960	Medium	544-1070-ND	49.00	EP1K50FC484-2
484-FBGA	50,000	249	2.5V	40,960	Slow	544-1071-ND	35.00	EP1K50FC484-3
144-TQFP	50,000	102	2.5V	40,960	Fast	544-1072-ND	41.00	EP1K50TC144-1
144-TQFP	50,000	102	2.5V	40,960	Medium	544-1073-ND	27.50	EP1K50TC144-2
144-TQFP	50,000	102	2.5V	40,960	Slow	544-1074-ND	20.50	EP1K50TC144-3
144-TQFP	50,000	102	2.5V	40,960	Medium	544-1075-ND	41.00	EP1K50TI144-2
208-PQFP	10,000	120	2.5V	12,288	Slow	544-1090-ND	11.50	EP1K10QC208-3
APEX								
356-BGA	100,000	246	1.8V	53,248	Slow	544-1091-ND	90.00	EP20K100EBC356-3
324-FBGA	100,000	246	1.8V	53,248	Slow	544-1092-ND	82.00	EP20K100EFC324-3
240-PQFP	100,000	183	1.8V	53,248	Slow	544-1093-ND	72.00	EP20K100EQC240-3
240-PQFP	100,000	189	2.5V	53,248	Slow	544-1094-ND	72.00	EP20K100QC240-3
240-PQFP	200,000	168	1.8V	106,496	Slow	544-1095-ND	180.00	EP20K200EQC240-3
484-FBGA	200,000	376	1.8V	106,496	Fast	544-1096-ND	392.00	EP20K200EFC484-1
484-FBGA	200,000	376	1.8V	106,496	Fast	544-1097-ND	402.00	EP20K200EFC484-1X
484-FBGA	200,000	376	1.8V	106,496	Medium	544-1098-ND	284.00	EP20K200EFC484-2X
484-FBGA	200,000	376	1.8V	106,496	Slow	544-1099-ND	196.00	EP20K200EFC484-3
672-FBGA	400,000	488	1.8V	212,992	Fast	544-1102-ND	1160.00	EP20K400EFC672-1X
672-FBGA	400,000	488	1.8V	212,992	Slow	544-1103-ND	380.00	EP20K400EFC672-3
652-BGA	400,000	488	1.8V	212,992	Slow	544-1135-ND	390.00	EP20K400EBC652-3
CYCLONE								
256-FBGA	12,060	185	1.5V	239,616	Medium	544-1011-ND	44.80	EP1C12F256C7
256-FBGA	12,060	185	1.5V	239,616	Slow	544-1012-ND	37.30	EP1C12F256C8
256-FBGA	12,060	185	1.5V	239,616	Medium	544-1013-ND	56.00	EP1C12F256I7
100-TQFP	2,910	65	1.5V	59,904	Fast	544-1014-ND	16.00	EP1C3T100C6
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1015-ND	12.80	EP1C3T100C7
100-TQFP	2,910	65	1.5V	59,904	Slow	544-1016-ND	10.70	EP1C3T100C8
100-TQFP	2,910	65	1.5V	59,904	Medium	544-1017-ND	16.00	EP1C3T100I7
256-FBGA	5,980	185	1.5V	92,160	Fast	544-1018-ND	32.40	EP1C6F256C6
256-FBGA	5,980	185	1.5V	92,160	Medium	544-1019-ND	25.90	EP1C6F256C7
256-FBGA	5,980	185	1.5V	92,160	Slow	544-1020-ND	21.60	EP1C6F256C8
256-FBGA	5,980	185	1.5V	92,160	Medium	544-1021-ND	32.40	EP1C6F256I7
324-FBGA	12,060	249	1.5V	239,616	Fast	544-1034-ND	58.70	EP1C12F324C6
324-FBGA	12,060	249	1.5V	239,616	Medium	544-1035-ND	46.90	EP1C12F324C7
324-FBGA	12,060	249	1.5V	239,616	Slow	544-1036-ND	39.10	EP1C12F324C8
324-FBGA	12,060	249	1.5V	239,616	Medium	544-1037-ND	58.70	EP1C12F324I7
324-FBGA	20,060	233	1.5V	294,912	Fast	544-1038-ND	90.00	EP1C20F324C6
324-FBGA	20,060	233	1.5V	294,912	Medium	544-1039-ND	72.00	EP1C20F324C7
324-FBGA	20,060	233	1.5V	294,912	Slow	544-1040-ND	60.00	EP1C20F324C8
324-FBGA	20,060	233	1.5V	294,912	Medium	544-1041-ND	90.00	EP1C20F324I7
324-FBGA	4,000	249	1.5V	78,336	Fast	544-1042-ND	28.80	EP1C4F324C6
324-FBGA	4,000	249	1.5V	78,336	Medium	544-1043-ND	23.10	EP1C4F324C7
324-FBGA	4,000	249	1.5V	78,336	Slow	544-1044-ND	19.20	EP1C4F324C8
324-FBGA	4,000	249	1.5V	78,336	Medium	544-1045-ND	28.80	EP1C4F324I7
400-FBGA	20,060	301	1.5V	294,912	Fast	544-1046-ND	98.70	EP1C20F400C6
400-FBGA	20,060	301	1.5V	294,912	Medium	544-1047-ND	78.90	EP1C20F400C7
400-FBGA	20,060	301	1.5V	294,912	Slow	544-1048-ND	65.70	EP1C20F400C8
400-FBGA	20,060	301	1.5V	294,912	Medium	544-1049-ND	98.70	EP1C20F400I7
144-TQFP	2,910	104	1.5V	59,904	Fast	544-1050-ND	18.40	EP1C3T144C6
144-TQFP	2,910	104	1.5V	59,904	Medium	544-1051-ND	14.70	EP1C3T144C7
144-TQFP	2,910	104	1.5V	59,904	Slow	544-1052-ND	12.30	EP1C3T144C8
144-TQFP	2,910	104	1.5V	59,904	Medium	544-1053-ND	18.40	EP1C3T144I7
400-FBGA	4,000	301	1.5V	78,336	Fast	544-1054-ND	34.70	EP1C4F400C6
400-FBGA	4,000	301	1.5V	78,336	Slow	544-1055-ND	23.10	EP1C4F400C8
144-TQFP	5,980	98	1.5V	92,160	Fast	544-1056-ND	26.30	EP1C6T144C6
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1057-ND	20.90	EP1C6T144C7
144-TQFP	5,980	98	1.5V	92,160	Slow	544-1058-ND	17.50	EP1C6T144C8
144-TQFP	5,980	98	1.5V	92,160	Medium	544-1059-ND	26.30	EP1C6T144I7
240-PQFP	12,060	173	1.5V	239,616	Fast	544-1079-ND	53.20	EP1C12Q240C6
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1080-ND	42.50	EP1C12Q240C7
240-PQFP	12,060	173	1.5V	239,616	Slow	544-1081-ND	35.50	EP1C12Q240C8
240-PQFP	12,060	173	1.5V	239,616	Medium	544-1082-ND	53.20	EP1C12Q240I7
240-PQFP	5,980	185	1.5V	92,160	Fast	544-1083-ND	28.40	EP1C6Q240C6
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1084-ND	22.70	EP1C6Q240C7
240-PQFP	5,980	185	1.5V	92,160	Slow	544-1085-ND	18.90	EP1C6Q240C8
240-PQFP	5,980	185	1.5V	92,160	Medium	544-1086-ND	28.40	EP1C6Q240I7
CYCLONE II								
256-FBGA	4,608	158	1.5V	119, 808	Medium	544-1445-ND	17.90	EP2C5F256C7
256-FBGA	4,608	158	1.5V	119, 808	Slow	544-1446-ND	14.90	EP2C5F256C8
208-PQFP	4,608	158	1.5V	119, 808	Medium	544-1447-ND	16.70	EP2C5Q208C7
208-PQFP	4,608	158	1.5V	119, 808	Slow	544-1448-ND	13.90	EP2C5Q208C8
144-TQFP	4,608	158	1.5V	119, 808	Medium	544-1449-ND	15.30	EP2C5T144C7
144-TQFP	4,608	158	1.5V	119, 808	Slow	544-1450-ND	12.80	EP2C5T144C8
256-FBGA	8,256	182	1.5V	165,888	Medium	544-1453-ND	28.10	EP2C8F256C7
256-FBGA	8,256	182	1.5V	165,888	Slow	544-1454-ND	23.50	EP2C8F256C8
208-PQFP	8,256	182	1.5V	165,888	Medium	544-1455-ND	24.30	EP2C8Q208C7
208-PQFP	8,256	182	1.5V	165,888	Slow	544-1456-ND	20.30	EP2C8Q208C8
144-TQFP	8,256	182	1.5V	165,888	Medium	544-1457-ND	23.10	EP2C8T144C7
144-TQFP	8,256	182	1.5V	165,888	Slow	544-1458-ND	19.20	EP2C8T144C8
256-FBGA	18,752	152	1.2V	239,616	Fast	544-1360-ND	64.00	EP2C20F256C6

(Continued)

Package	Gates	I/O Pins	Operating Voltage	Total RAM Bits (K)	Speed	Digi-Key Part No.	Price Each	Altera Part No.
256-FBGA	18,752	152	1.2V	239,616	Medium	544-1361-ND	51.20	EP2C20F256C7
256-FBGA	18,752	152	1.2V	239,616	Slow	544-1362-ND	42.70	EP2C20F256C8
484-FBGA	18,752	315	1.2V	239,616	Fast	544-1363-ND	70.40	EP2C20F484C6
484-FBGA	18,752	315	1.2V	239,616	Medium	544-1364-ND	56.30	EP2C20F484C7
484-FBGA	18, 752	315	1.2V	239,616	Slow	544-1365-ND	46.90	EP2C20F484C8
484-FBGA	33,216	322	1.2V	483,840	Fast	544-1076-ND	136.00	EP2C35F484C6
484-FBGA	33,216	322	1.2V	483,840	Medium	544-1077-ND	113.30	EP2C35F484C7
484-FBGA	33,216	322	1.2V	483,840	Slow	544-1078-ND	90.70	EP2C35F484C8
484-FBGA	33,216	322	1.2V	483,840	Slow	544-1366-NDΔ	90.70	EP2C35F484C8N
672-FBGA	33,216	475	1.2V	483,840	Fast	544-1087-ND	149.60	EP2C35F672C6
672-FBGA	33,216	475	1.2V	483,840	Medium	544-1088-ND	124.70	EP2C35F672C7
672-FBGA	50,528	450	1.5V	594,432	Medium	544-1443-ND	205.00	EP2C50F672C7
672-FBGA	50,528	450	1.5V	594,432	Slow	544-1444-ND	171.00	EP2C50F672C8
672-FBGA	68,416	622	1.5V	1,152,000	Medium	544-1451-ND	282.00	EP2C70F672C7
672-FBGA	68,416	422	1.2V	1,152,000	Slow	544-1409-ND	235.00	EP2C70F672C8
896-FBGA	68,416	622	1.5V	1,152,000	Medium	544-1452-ND	307.00	EP2C70F896C7
896-FBGA	68,416	622	1.2V	1,152,000	Slow	544-1410-ND	256.00	EP2C70F896C8
STRATIX								
484-FBGA	10,570	335	1.5V	920,448	Slow	544-1100-ND	205.00	EP1S10F484C7
484-FBGA	18,460	361	1.5V	1,669,248	Slow	544-1101-ND	350.00	EP1S20F484C7
672-FBGA	10,570	345	1.5V	920,448	Medium	544-1108-ND	265.00	EP1S10F672C6
672-FBGA	10,570	345	1.5V	920,448	Slow	544-1109-ND	190.00	EP1S10F672C7
672-FBGA	10,570	345	1.5V	920,448	Slow	544-1110-ND	265.00	EP1S10F672I7
780-FBGA	10,570	426	1.5V	920,448	Medium	544-1111-ND	315.00	EP1S10F780C6
780-FBGA	10,570	426	1.5V	920,448	Slow	544-1112-ND	225.00	EP1S10F780C7
672-FBGA	18,460	426	1.5V	1,669,248	Slow	544-1113-ND	325.00	EP1S20F672C7
780-FBGA	18,460	586	1.5V	1,669,248	Fast	544-1114-ND	760.00	EP1S20F780C5
780-FBGA	18,460	586	1.5V	1,669,248	Medium	544-1115-ND	530.00	EP1S20F780C6
780-FBGA	18,460	586	1.5V	1,669,248	Slow	544-1116-ND	380.00	EP1S20F780C7
672-FBGA	25,660	473	1.5V	1,944,576	Medium	544-1117-ND	760.00	EP1S25F672C6
672-FBGA	25,660	473	1.5V	1,944,576	Slow	544-1118-ND	545.00	EP1S25F672C7
672-FBGA	25,660	473	1.5V	1,944,576	Slow	544-1119-ND	460.00	EP1S25F672C8
780-FBGA	25,660	597	1.5V	1,944,576	Fast	544-1120-ND	1225.00	EP1S25F780C5
780-FBGA	25,660	597	1.5V	1,944,576	Medium	544-1121-ND	860.00	EP1S25F780C6
780-FBGA	25,660	597	1.5V	1,944,576	Slow	544-1122-ND	610.00	EP1S25F780C7
1020-FBGA	25,660	706	1.5V	1,944,576	Slow	544-1129-ND	660.00	EP1S25F1020C7
956-BGA	32,470	726	1.5V	3,317,184	Medium	544-1417-ND	1240.00	EP1S30B956C6
956-BGA	32,470	726	1.5V	3,317,184	Slow	544-1418-ND	885.00	EP1S30B956C7
1020-FBGA	32,470	726	1.5V	3,317,184	Medium	544-1419-ND	1145.00	EP1S30F1020C6
1020-FBGA	32,470	726	1.5V	3,317,184	Slow	544-1420-ND	815.00	EP1S30F1020C7
780-FBGA	32,470	726	1.5V	3,317,184	Slow	544-1421-ND	750.00	EP1S30F780C7
780-FBGA	32,470	726	1.5V	3,317,184	Slow	544-1422-ND	640.00	EP1S30F780C8
956-BGA	41,250	822	1.5V	3,423,744	Medium	544-1423-ND	1565.00	EP1S40B956C6
956-BGA	41,250	822	1.5V	3,423,744	Slow	544-1424-ND	1115.00	EP1S40B956C7
1020-FBGA	41,250	822	1.5V	3,423,744	Medium	544-1425-ND	1450.00	EP1S40F1020C6
1020-FBGA	41,250	822	1.5V	3,423,744	Slow	544-1426-ND	1035.00	EP1S40F1020C7
1508-FBGA	41,250	822	1.5V	3,423,744	Medium	544-1427-ND	1565.00	EP1S40F1508C6
1508-FBGA	41,250	822	1.5V	3,423,744	Slow	544-1428-ND	1115.00	EP1S40F1508C7
780-FBGA	41,250	822	1.5V	3,423,744	Slow	544-1429-ND	950.00	EP1S40F780C7
780-FBGA	41,250	822	1.5V	3,423,744	Slow	544-1430-ND	810.00	EP1S40F780C8
956-BGA	57,120	1,022	1.5V	5,215,104	Medium	544-1431-ND	2825.00	EP1S60B956C6
956-BGA	57,120	1,022	1.5V	5,215,104	Slow	544-1432-ND	2015.01	EP1S60B956C7
1020-FBGA	57,120	1,022	1.5V	5,215,104	Medium	544-1433-ND	2629.99	EP1S60F1020C6
1020-FBGA	57,120	1,022	1.5V	5,215,104	Slow	544-1434-ND	1880.01	EP1S60F1020C7
1508-FBGA	57,120	1,022	1.5V	5,215,104	Medium	544-1435-ND	2825.00	EP1S60F1508C6
1508-FBGA	57,120	1,022	1.5V	5,215,104	Slow	544-1436-ND	2015.01	EP1S60F1508C7
956-BGA	79,040	1,238	1.5V	7,427,520	Medium	544-1437-ND	7195.01	EP1S80B956C6
956-BGA	79,040	1,238	1.5V	7,427,520	Slow	544-1438-ND	5140.00	EP1S80B956C7
1020-FBGA	79,040	1,238	1.5V	7,427,520	Medium	544-1439-ND	6975.01	EP1S80F1020C6
1020-FBGA	79,040	1,238	1.5V	7,427,520	Slow	544-1440-ND	4980.01	EP1S80F1020C7
1508-FBGA	79,040	1,238	1.5V	7,427,520	Medium	544-1441-ND	7195.01	EP1S80F1508C6
1508-FBGA	79,040	1,238	1.5V	7,427,520	Slow	544-1442-ND	5140.00	EP1S80F1508C7
STRATIX II								
484-FBGA	15,600	342	1.2V	419,328	Medium	544-1104-ND	235.00	EP2S15F484C4
484-FBGA	15,600	342	1.2V	419,328	Slow	544-1105-ND	190.00	EP2S15F484C5
672-FBGA	15,600	366	1.2V	419,328	Medium	544-1123-ND	265.00	EP2S15F672C4
672-FBGA	15,600	366	1.2V	419,328	Slow	544-1124-ND	215.00	EP2S15F672C5
484-FBGA	33,880	342	1.2V	1,369,728	Medium	544-1106-ND	505.00	EP2S30F484C4
484-FBGA	33,880	342	1.2V	1,369,728	Slow	544-1107-ND	405.00	EP2S30F484C5
672-FBGA	33,880	500	1.2V	1,369,728	Medium	544-1125-ND	560.00	EP2S30F672C4
672-FBGA	33,880	500	1.2V	1,369,728	Slow	544-1126-ND	450.00	EP2S30F672C5
672-FBGA	60,440	492	1.2V	2,544,192	Medium	544-1127-ND	1035.00	EP2S60F672C4
672-FBGA	60,440	492	1.2V	2,544,192	Slow	544-1128-ND	830.00	EP2S60F672C5
1020-FBGA	60,440	718	1.2V	2,544,192	Fast	544-1130-ND	1440.00	EP2S60F1020C3
1020-FBGA	60,440	718	1.2V	2,544,192	Medium	544-1131-ND	1125.00	EP2S60F102C4
1020-FBGA	60,440	718	1.2V	2,544,192	Slow	544-1132-ND	900.00	EP2S60F1020C5
484-FBGA	60,440	334	1.2V	2,544,192	Medium	544-1133-ND	950.00	EP2S60F484C4
484-FBGA	60,440	334	1.2V	2,544,192	Slow	544-1134-ND	760.00	EP2S60F484C5
1020-FBGA	90,960	758	1.2V	4,520,488	Medium	544-1411-ND	2890.00	EP2S90F1020C4
1020-FBGA	90,960	902	1.2V	4,520,488	Slow	544-1465-ND	2315.00	EP2S90F1020C5
1508-FBGA	90,960	902	1.2V	4,520,488	Fast	544-1412-ND	3919.99	EP2S90F1508C3
1508-FBGA	90,960	902	1.2V	4,520,488	Medium	544-1466-ND	3060.01	EP2S90F1508C4
1508-FBGA	90,960	902	1.2V	4,520,488	Slow	544-1467-ND	2449.99	EP2S90F1508C5
780-FBGA	132,540	1,126	1.2V	6,747,840	Medium	544-1461-ND	5725.00	EP2S130F780C4
780-FBGA	132,540	1,126	1.2V	6,747,840	Slow	544-1462-ND	4090.01	EP2S130F780C5
1020-FBGA	132,540	742	1.2V	6,747,840	Medium	544-1413-ND	5725.00	EP2S130F1020C4
1508-FBGA	132,540	1,126	1.2V	6,747,840	Slow	544-1414-ND	4360.01	EP2S130F1508C5
1020-FBGA	132,540	1,126	1.2V	6,747,840	Slow	544-1459-ND	4090.01	EP2S130F1020C5
1508-FBGA	132,540	1,126	1.2V	6,747,840	Medium	544-1460-ND	6100.01	EP2S130F1508C4
1020-FBGA	179,400	742	1.2V	9,383,040	Medium	544-1415-ND	8584.99	EP2S180F1020C4
1020-FBGA	179,400	1,170	1.2V	9,383,040	Slow	544-1463-ND	6135.01	EP2S180F1020C5
1508-FBGA	179,400	1,170	1.2V	9,383,040	Medium	544-1416-ND	9350.01	EP2S180F1508C4
1508-FBGA	179,400	1,170	1.2V	9,383,040	Slow	544-1464-ND	6680.01	EP2S180F1508C5
FLEX 10K								
240-RQFP	158,000	189	5.0V	24,576	Fast	544-1248-ND	564.00	EPF10K100ARC240-1
240-RQFP	158,000	189	5.0V	24,576	Medium	544-1249-ND	372.00	EPF10K100ARC240-2
240-RQFP	158,000	189	5.0V	24,576	Slow	544-1250-ND	278.00	EPF10K100ARC240-3
240-RQFP	158,000	189	5.0V	24,576	Slow	544-1251-ND	388.00	EPF10K100ARI240-3
240-PQFP	257,000	189	2.5V	49,152	Fast	544-1252-ND	360.00	EPF10K100EQC240-1
240-PQFP	257,000	189	2.5V	49,152	Medium	544-1253-ND	244.00	EPF10K100EQC240-2
240-PQFP	257,000	189	2.5V	49,152	Slow	544-1254-ND	180.00	EPF10K100EQC240-3
208-PQFP	31,000	134	3.3V	6,144	Slow	544-1255-ND	40.00	EPF10K10AQC208-3
144-TQFP	31,000	102	3.3V	6,144	Slow	544-1256-ND	37.00	EPF10K10ATC144-3
208-PQFP	69,000	147	3.3V	12,288	Medium	544-1257-ND	103.00	EPF10K30AQC208-2
208-PQFP	69,000	147	3.3V	12,288	Slow	544-1258-ND	76.00	EPF10K30AQC208-3
240-PQFP	69,000	189	3.3V	12,288	Fast	544-1259-ND	165.00	EPF10K30AQC240-1
240-PQFP	69,000	189	3.3V	12,288	Medium	544-1260-ND	115.00	EPF10K30AQC240-2
240-PQFP	69,000	189	3.3V	12,288	Slow	544-1261-ND	84.00	EPF10K30AQC240-3
240-PQFP	69,000	189	3.3V	12,288	Slow	544-1262-ND	117.50	EPF10K30AQI240-3
144-TQFP	69,000	102	3.3V	12,288	Fast	544-1263-ND	148.00	EPF10K30ATC144-1
144-TQFP	69,000	102	3.3V	12,288	Slow	544-1264-ND	74.00	EPF10K30ATC144-3
144-TQFP	69,000	102	3.3V	12,288	Slow	544-1265-ND	103.00	EPF10K30ATI144-3
208-PQFP	119,000	147	2.5V	24,576	Slow	544-1266-ND	56.00	EPF10K30EQC208-3
144-TQFP	119,000	102	2.5V	24,576	Slow	544-1267-ND	50.00	EPF10K30ETC144-3
240-PQFP	199,000	189	2.5V	40,960	Fast	544-1268-ND	252.00	EPF10K50EQC240-1
240-PQFP	199,000	189	2.5V	40,960	Medium	544-1269-ND	172.00	EPF10K50EQC240-2
240-PQFP	199,000	189	2.5V	40,960	Slow	544-1270-ND	126.00	EPF10K50EQC240-3
FLEX 6000								
100-TQRF	10,000	71	3.3V	—	Slow	544-1271-ND	17.00	EPF6010ATC100-3
208-PQFP	16,000	171	3.3V	—	Medium	544-1272-ND	39.00	EPF6016AQC208-2
208-PQFP	16,000	171	3.3V	—	Slow	544-1273-ND	27.50	EPF6016AQC208-3
100-TQFP	16,000	81	3.3V	—	Slow	544-1274-ND	23.00	EPF6016ATC100-3
144-TQFP	16,000	117	3.3V	—	Medium	544-1275-ND	33.50	EPF6016ATC144-2
144-TQFP	16,000	117	3.3V	—	Slow	544-1276-ND	24.00	EPF6016ATC144-3
208-PQFP	16,000	171	5.0V	—	Medium	544-1277-ND	39.00	EPF6016QC208-2
208-PQFP	16,000	171	5.0V	—	Slow	544-1278-ND	27.45	EPF6016QC208-3
240-PQFP	16,000	199	5.0V	—	Medium	544-1279-ND	42.00	EPF6016QC240-2
240-PQFP	16,000	199	5.0V	—	Slow	544-1280-ND	29.95	EPF6016QC240-3
144-TQFP	16,000	117	5.0V	—	Medium	544-1281-ND	33.50	EPF6016TC144-2
144-TQFP	16,000	117	5.0V	—	Slow	544-1282-ND	23.95	EPF6016TC144-3
144-TQFP	16,000	117	5.0V	—	Slow	544-1283-ND	33.50	EPF6016TI144-3
208-PQFP	24,000	171	3.3V	—	Medium	544-1284-ND	56.50	EPF6024AQC208-2
208-PQFP	24,000	171	3.3V	—	Slow	544-1285-ND	40.50	EPF6024AQC208-3
240-PQFP	24,000	199	3.3V	—	Medium	544-1286-ND	60.50	EPF6024AQC240-2
240-PQFP	24,000	199	3.3V	—	Slow	544-1287-ND	43.00	EPF6024AQC240-3
144-TQFP	24,000	117	3.3V	—	Slow	544-1288-ND	35.95	EPF6024ATC144-3

Δ **RoHS Compliant**

ALTERA®

CPLDs

Altera's Max families include the cost-optimized MAX 3000 and the high-performance MAX 7000 CPLD's, each of which offers densities, packages and speed grades to meet a variety of design needs. Altera's MAX CPLD's are non-volatile, single-chip solutions that do not require additional configuration devices. This means that they can be pre-programmed and reprogrammed using in-system programmability (ISP) and will retain the programming algorithm securely, even when the device is powered off.

Package	Macro Cells	Logic Ele-ments	Pin-Pin Delay (ns)	I/O Pins	Voltage (V)	Speed (NS)	Digi-Key Part No.	Price Each	Altera Part No.
					MAX II				
100-TQFP	192	240	4.7	80	3.3/2.5	3	544-1144-ND	11.90	EPM240T100C3
100-TQFP	192	240	4.7	80	3.3/2.5	4	544-1145-ND	8.30	EPM240T100C4
100-TQFP	192	240	4.7	80	3.3/2.5	5	544-1146-ND	6.00	EPM240T100C5
100-TQFP	192	240	4.7	80	1.8	3	544-1147-ND	11.90	EPM240GT100C3
100-TQFP	192	240	4.7	80	1.8	3	544-1395-NDΔ	11.90	EPM240GT100C3N
100-TQFP	192	240	4.7	80	1.8	4	544-1148-ND	8.30	EPM240GT100C4
100-TQFP	192	240	4.7	80	1.8	4	544-1396-NDΔ	8.30	EPM240GT100C4N
100-TQFP	192	240	4.7	80	1.8	5	544-1149-ND	6.00	EPM240GT100C5
100-TQFP	192	240	4.7	80	1.8	5	544-1397-NDΔ	6.00	EPM240GT100C5N
256-FBGA	440	570	5.5	160	3.3/2.5	3	544-1294-ND	43.30	EPM570F256C3
256-FBGA	440	570	5.5	160	3.3/2.5	3	544-1312-NDΔ	43.30	EPM570F256C3N
256-FBGA	440	570	5.5	160	3.3/2.5	4	544-1295-ND	30.30	EPM570F256C4
256-FBGA	440	570	5.5	160	3.3/2.5	4	544-1313-NDΔ	30.30	EPM570F256C4N
256-FBGA	440	570	5.5	160	3.3/2.5	5	544-1296-ND	21.70	EPM570F256C5
256-FBGA	440	570	5.5	160	3.3/2.5	5	544-1398-ND†	30.30	EPM570F256I5
256-FBGA	440	570	5.5	160	3.3/2.5	5	544-1314-NDΔ	21.70	EPM570F256C5N
256-FBGA	440	570	5.5	160	3.3/2.5	5	544-1399-NDΔ†	30.30	EPM570F256I5N
100-TQFP	440	570	5.5	76	3.3/2.5	3	544-1297-ND	26.70	EPM570T100C3
100-TQFP	440	570	5.5	76	3.3/2.5	3	544-1315-NDΔ	26.70	EPM570T100C3N
100-TQFP	440	570	5.5	76	3.3/2.5	4	544-1298-ND	18.70	EPM570T100C4
100-TQFP	440	570	5.5	76	3.3/2.5	4	544-1316-NDΔ	18.70	EPM570T100C4N
100-TQFP	440	570	5.5	76	3.3/2.5	5	544-1299-ND	13.30	EPM570T100C5
100-TQFP	440	570	5.5	76	3.3/2.5	5	544-1317-NDΔ	13.30	EPM570T100C5N
144-TQFP	440	570	5.5	116	3.3/2.5	3	544-1300-ND	36.10	EPM570T144C3
144-TQFP	440	570	5.5	116	3.3/2.5	3	544-1318-NDΔ	36.10	EPM570T144C3N
144-TQFP	440	570	5.5	116	3.3/2.5	4	544-1301-ND	25.30	EPM570T144C4
144-TQFP	440	570	5.5	116	3.3/2.5	4	544-1319-NDΔ	25.30	EPM570T144C4N
144-TQFP	440	570	5.5	116	3.3/2.5	5	544-1302-ND	18.10	EPM570T144C5
144-TQFP	440	570	5.5	116	3.3/2.5	5	544-1320-NDΔ	18.10	EPM570T144C5N
256-FBGA	440	570	5.5	160	1.8	3	544-1303-ND	43.30	EPM570GF256C3
256-FBGA	440	570	5.5	160	1.8	3	544-1400-NDΔ	43.30	EPM570GF256C3N
256-FBGA	440	570	5.5	160	1.8	4	544-1304-ND	30.30	EPM570GF256C4
256-FBGA	440	570	5.5	160	1.8	4	544-1401-NDΔ	30.30	EPM570GF256C4N
256-FBGA	440	570	5.5	160	1.8	5	544-1305-ND	21.70	EPM570GF256C5
256-FBGA	440	570	5.5	160	1.8	5	544-1402-NDΔ	21.70	EPM570GF256C5N
100-TQFP	440	570	5.5	76	1.8	3	544-1306-ND	26.70	EPM570GT100C3
100-TQFP	440	570	5.5	76	1.8	3	544-1403-NDΔ	26.70	EPM570GT100C3N
100-TQFP	440	570	5.5	76	1.8	4	544-1307-ND	18.70	EPM570GT100C4
100-TQFP	440	570	5.5	76	1.8	4	544-1404-NDΔ	18.70	EPM570GT100C4N
100-TQFP	440	570	5.5	76	1.8	5	544-1308-ND	13.30	EPM570GT100C5
100-TQFP	440	570	5.5	76	1.8	5	544-1405-NDΔ	13.30	EPM570GT100C5N
144-TQFP	440	570	5.5	116	1.8	3	544-1309-ND	36.10	EPM570GT144C3
144-TQFP	440	570	5.5	116	1.8	3	544-1406-NDΔ	36.10	EPM570GT144C3N
144-TQFP	440	570	5.5	116	1.8	4	544-1310-ND	25.30	EPM570GT144C4
144-TQFP	440	570	5.5	116	1.8	4	544-1407-NDΔ	25.30	EPM570GT144C4N
144-TQFP	440	570	5.5	116	1.8	5	544-1311-ND	18.10	EPM570GT144C5
144-TQFP	440	570	5.5	116	1.8	5	544-1408-NDΔ	18.10	EPM570GT144C5N
256-FBGA	980	1,270	6.3	212	3.3/2.5	3	544-1321-ND	60.00	EPM1270F256C3
256-FBGA	980	1,270	6.3	212	3.3/2.5	4	544-1140-ND	42.00	EPM1270F256C4
256-FBGA	980	1,270	6.3	212	3.3/2.5	5	544-1141-ND	30.00	EPM1270F256C5
256-FBGA	980	1,270	6.3	212	3.3/2.5	5	544-1381-ND†	42.00	EPM1270F256I5
144-TQFP	980	1,270	6.3	116	3.3/2.5	3	544-1324-ND	48.30	EPM1270T144C3
144-TQFP	980	1,270	6.3	116	3.3/2.5	4	544-1142-ND	33.80	EPM1270T144C4
144-TQFP	980	1,270	6.3	116	3.3/2.5	5	544-1143-ND	24.20	EPM1270T144C5
144-TQFP	980	1,270	6.3	116	3.3/2.5	5	544-1388-ND†	33.80	EPM1270T144I5
256-FBGA	980	1,270	6.3	212	1.8	3	544-1327-ND	60.00	EPM1270GF256C3
256-FBGA	980	1,270	6.3	212	1.8	3	544-1382-NDΔ	60.00	EPM1270GF256C3N
256-FBGA	980	1,270	6.3	212	1.8	4	544-1328-ND	42.00	EPM1270GF256C4
256-FBGA	980	1,270	6.3	212	1.8	4	544-1383-NDΔ	42.00	EPM1270GF256C4N
256-FBGA	980	1,270	6.3	212	1.8	5	544-1329-ND	30.00	EPM1270GF256C5
256-FBGA	980	1,270	6.3	212	1.8	5	544-1384-NDΔ	30.00	EPM1270GF256C5N
144-TQFP	980	1,270	6.3	116	1.8	3	544-1330-ND	48.30	EPM1270GT144C3
144-TQFP	980	1,270	6.3	116	1.8	3	544-1385-NDΔ	48.30	EPM1270GT144C3N
144-TQFP	980	1,270	6.3	116	1.8	4	544-1331-ND	33.80	EPM1270GT144C4
144-TQFP	980	1,270	6.3	116	1.8	4	544-1386-NDΔ	33.80	EPM1270GT144C4N
144-TQFP	980	1,270	6.3	116	1.8	5	544-1332-ND	24.20	EPM1270GT144C5
144-TQFP	980	1,270	6.3	116	1.8	5	544-1387-ND Δ	24.20	EPM1270GT144C5N
256-FBGA	980	1,270	6.3	116	3.3/2.5	3	544-1335-NDΔ	48.30	EPM1270T144C3N
256-FBGA	980	1,270	6.3	116	3.3/2.5	4	544-1334-NDΔ	33.80	EPM1270T144C4N
256-FBGA	980	1,270	6.3	116	3.3/2.5	5	544-1333-NDΔ	24.20	EPM1270T144C5N
144-TQFP	980	1,270	6.3	212	3.3/2.5	3	544-1338-NDΔ	60.00	EPM1270F256C3N
144-TQFP	980	1,270	6.3	212	3.3/2.5	4	544-1337-NDΔ	42.00	EPM1270F256C4N
144-TQFP	980	1,270	6.3	212	3.3/2.5	5	544-1336-NDΔ	30.00	EPM1270F256C5N
256-FBGA	1,700	2,210	7.1	204	3.3/2.5	3	544-1341-ND	81.40	EPM2210F256C3
256-FBGA	1,700	2,210	7.1	204	3.3/2.5	4	544-1340-ND	57.00	EPM2210F256C4
256-FBGA	1,700	2,210	7.1	204	3.3/2.5	5	544-1339-ND	40.70	EPM2210F256C5
324-FBGA	1,700	2,210	7.1	272	3.3/2.5	3	544-1344-ND	92.80	EPM2210F324C3
324-FBGA	1,700	2,210	7.1	272	3.3/2.5	4	544-1343-ND	64.90	EPM2210F324C4
324-FBGA	1,700	2,210	7.1	272	3.3/2.5	5	544-1342-ND	46.40	EPM2210F324C5
256-FBGA	1,700	2,210	7.1	204	1.8	3	544-1350-ND	81.40	EPM2210GF256C3
256-FBGA	1,700	2,210	7.1	204	1.8	3	544-1389-NDΔ	81.40	EPM2210GF256C3N
256-FBGA	1,700	2,210	7.1	204	1.8	4	544-1349-ND	57.00	EPM2210GF256C4
256-FBGA	1,700	2,210	7.1	204	1.8	4	544-1390-NDΔ	57.00	EPM2210GF256C4N
256-FBGA	1,700	2,210	7.1	204	1.8	5	544-1348-ND	40.70	EPM2210GF256C5
256-FBGA	1,700	2,210	7.1	204	1.8	5	544-1391-NDΔ	40.70	EPM2210GF256C5N
256-FBGA	1,700	2,210	7.1	204	3.3/2.5	3	544-1356-NDΔ	81.40	EPM2210F256C3N
256-FBGA	1,700	2,210	7.1	204	3.3/2.5	4	544-1355-NDΔ	57.00	EPM2210F256C4N
256-FBGA	1,700	2,210	7.1	204	3.3/2.5	5	544-1354-NDΔ	40.70	EPM2210F256C5N
324-FBGA	1,700	2,210	7.1	272	1.8	3	544-1357-ND	92.80	EPM2210GF324C3
324-FBFA	1,700	2,210	7.1	272	1.8	3	544-1392-NDΔ	92.80	EPM2210GF324C3N
324-FBGA	1,700	2,210	7.1	272	1.8	4	544-1358-ND	64.90	EPM2210GF324C4
324-FBFA	1,700	2,210	7.1	272	1.8	4	544-1393-NDΔ	64.90	EPM2210GF324C4N
324-FBGA	1,700	2,210	7.1	272	1.8	5	544-1359-ND	46.40	EPM2210GF324C5
324-FBFA	1,700	2,210	7.1	272	1.8	5	544-1394-NDΔ	46.40	EPM2210GF324C5N

Package	Macro Cells	Gates	Pin-Pin Delay (ns)	I/O Pins	Voltage (V)	Speed (NS)	Digi-Key Part No.	Price Each	Altera Part No.
					MAX 3000A				
44-PLCC	32	600	4.5	34	3.3V	10	544-1150-5-ND*	1.20	EPM3032ALC44-10
44-TQFP	32	600	4.5	34	3.3V	10	544-1151-ND	1.40	EPM3032ATC44-10
44-TQFP	32	600	4.5	34	3.3V	4	544-1152-ND	2.40	EPM3032ATC44-4
44-TQFP	32	600	4.5	34	3.3V	7	544-1153-ND	1.45	EPM3032ATC44-7
44-TQFP	32	600	4.5	34	3.3V	10	544-1154-ND	1.45	EPM3032ATI44-10
44-PLCC	64	1,250	4.5	34	3.3V	10	544-1155-5-ND*	2.10	EPM3064ALC44-10
100-TQFP	64	1,250	4.5	66	3.3V	10	544-1156-ND	3.10	EPM3064ATC100-10
100-TQFP	64	1,250	4.5	66	3.3V	4	544-1157-ND	5.90	EPM3064ATC100-4
100-TQFP	64	1,250	4.5	66	3.3V	7	544-1158-ND	3.75	EPM3064ATC100-7
44-TQFP	64	1,250	4.5	34	3.3V	10	544-1159-ND	2.55	EPM3064ATC44-10
44-TQFP	64	1,250	4.5	34	3.3V	4	544-1160-ND	5.35	EPM3064ATC44-4
44-TQFP	64	1,250	4.5	34	3.3V	7	544-1161-ND	2.90	EPM3064ATC44-7
44-TQFP	64	1,250	4.5	34	3.3V	10	544-1162-ND	2.90	EPM3064ATI44-10
100-TQFP	128	2,500	5.0	80	3.3V	10	544-1163-ND	8.60	EPM3128ATC100-10
100-TQFP	128	2,500	5.0	80	3.3V	5	544-1164-ND	18.75	EPM3128ATC100-5
100-TQFP	128	2,500	5.0	80	3.3V	7	544-1165-ND	11.75	EPM3128ATC100-7
144-TQFP	128	2,500	5.0	96	3.3V	10	544-1166-ND	9.20	EPM3128ATC144-10
144-TQFP	128	2,500	5.0	96	3.3V	5	544-1167-ND	20.00	EPM3128ATC144-5
144-TQFP	128	2,500	5.0	96	3.3V	7	544-1168-ND	12.75	EPM3128ATC144-7
100-TQFP	128	2,500	5.0	80	3.3V	10	544-1169-ND	11.75	EPM3128ATI100-10
208-PQFP	256	5,000	7.5	158	3.3V	10	544-1170-ND	20.00	EPM3256AQC208-10
208-PQFP	256	5,000	7.5	158	3.3V	7	544-1171-ND	26.00	EPM3256AQC208-7
144-TQFP	256	5,000	7.5	116	3.3V	10	544-1172-ND	19.25	EPM3256ATC144-10
144-TQFP	256	5,000	7.5	116	3.3V	7	544-1173-ND	22.75	EPM3256ATC144-7
144-TQFP	256	5,000	7.5	116	3.3V	10	544-1174-ND	22.75	EPM3256ATI144-10
208-PQFP	512	10,000	7.5	172	3.3V	10	544-1175-ND	42.50	EPM3512AQC208-10
208-PQFP	512	10,000	7.5	172	3.3V	7	544-1176-ND	55.00	EPM3512AQC208-7
					MAX 7000				
44-PLCC	32	600	5.0	36	5.0V	10	544-1182-5-ND*	6.00	EPM7032SLC44-10
44-PLCC	32	600	5.0	36	5.0V	7	544-1183-5-ND*	8.40	EPM7032SLC44-7
44-PLCC	32	600	5.0	36	5.0V	7	544-1184-5-ND*	10.80	EPM7032SLI44-7
44-TQFP	32	600	5.0	36	5.0V	10	544-1185-ND	6.00	EPM7032STC44-10
44-TQFP	32	600	5.0	36	5.0V	7	544-1186-ND	8.40	EPM7032STC44-7
44-TQFP	32	600	5.0	36	5.0V	7	544-1187-ND	10.80	EPM7032STI44-7
44-PLCC	64	1,250	5.0	36	5.0V	10	544-1195-5-ND*	8.40	EPM7064SLC44-10
44-PLCC	64	1,250	5.0	36	5.0V	7	544-1196-5-ND*	18.60	EPM7064SLC44-7
84-PLCC	64	1,250	5.0	68	5.0V	10	544-1197-5-ND*	15.25	EPM7064SLC84-10
84-PLCC	64	1,250	5.0	68	5.0V	7	544-1198-5-ND*	21.00	EPM7064SLC84-7
100-TQFP	64	1,250	5.0	68	5.0V	10	544-1199-ND	11.20	EPM7064STC100-10
44-TQFP	64	1,250	5.0	36	5.0V	10	544-1200-ND	7.50	EPM7064STC44-10
84-PLCC	128	2,500	6.0	68	5.0V	10	544-1207-5-ND*	30.50	EPM7128SLC84-10
84-PLCC	128	2,500	6.0	68	5.0V	15	544-1208-5-ND*	19.00	EPM7128SLC84-15
100-PQFP	128	2,500	6.0	84	5.0V	10	544-1209-ND	40.50	EPM7128SQC100-10
100-PQFP	128	2,500	6.0	84	5.0V	15	544-1210-ND	24.00	EPM7128SQC100-15
100-TQFP	128	2,500	6.0	84‡	5.0V	10	544-1211-ND	44.00	EPM7128STC100-10
100-TQFP	128	2,500	6.0	84‡	5.0V	15	544-1212-ND	16.75	EPM7128STC100-15
84-PLCC	160	3,200	6.0	64	5.0V	10	544-1213-5-ND*	48.00	EPM7160SLC84-10
100-TQFP	160	3,200	6.0	84	5.0V	10	544-1214-ND	52.50	EPM7160STC100-10
160-PQFP	192	3,750	7.5	124	5.0V	10	544-1215-ND	81.50	EPM7192SQC160-10
160-PQFP	192	3,750	7.5	124	5.0V	15	544-1216-ND	52.50	EPM7192SQC160-15
208-PQFP	256	5,000	7.5	164‡	5.0V	10	544-1219-ND	87.50	EPM7256SQC208-10
208-PQFP	256	5,000	7.5	164‡	5.0V	15	544-1220-ND	70.00	EPM7256SQC208-15
					MAX 7000A				
44-PLCC	32	600	4.5	36	3.3V	10	544-1177-5-ND*	2.10	EPM7032AELC44-10
44-TQFP	32	600	4.5	36	3.3V	10	544-1178-ND	2.40	EPM7032AETC44-10
44-TQFP	32	600	4.5	36	3.3V	4	544-1179-ND	4.50	EPM7032AETC44-4
44-TQFP	32	600	4.5	36	3.3V	7	544-1180-ND	3.00	EPM7032AETC44-7
44-TQFP	32	600	4.5	36	3.3V	7	544-1181-ND	3.95	EPM7032AETI44-7
100-TQFP	64	1,250	4.5	68	3.3V	10	544-1188-ND	11.30	EPM7064AETC100-10
100-TQFP	64	1,250	4.5	68	3.3V	4	544-1189-ND	80.50	EPM7064AETC100-4
100-TQFP	64	1,250	4.5	68	3.3V	7	544-1190-ND	40.25	EPM7064AETC100-7
44-TQFP	64	1,250	4.5	36	3.3V	10	544-1191-ND	7.60	EPM7064AETC44-10
44-TQFP	64	1,250	4.5	36	3.3V	4	544-1192-ND	50.00	EPM7064AETC44-4
44-TQFP	64	1,250	4.5	36	3.3V	7	544-1193-ND	25.00	EPM7064AETC44-7
44-TQFP	64	1,250	4.5	36	3.3V	7	544-1194-ND	32.50	EPM7064AETI44-7
84-PLCC	128	2,500	5.0	68	3.3V	10	544-1201-5-ND*	16.00	EPM7128AELC84-10
100-TQFP	128	2,500	5.0	84	3.3V	10	544-1202-ND	16.75	EPM7128AETC100-10
100-TQFP	128	2,500	5.0	84	3.3V	5	544-1203-ND	81.50	EPM7128AETC100-5
100-TQFP	128	2,500	5.0	84	3.3V	7	544-1204-ND	43.50	EPM7128AETC100-7
144-TQFP	128	2,500	5.0	100	3.3V	10	544-1205-ND	29.50	EPM7128AETC144-10
100-TQFP	128	2,500	5.0	84	3.3V	7	544-1206-ND	79.50	EPM7128AETI100-7
100-TQFP	256	5,000	5.5	84	3.3V	10	544-1217-ND	48.50	EPM7256AETC100-10
144-TQFP	256	5,000	5.5	120	3.3V	10	544-1218-ND	59.00	EPM7256AETC144-10

Δ **RoHS Compliant** † Industrial Temperature: -40°C ~ 100°C * Tube ‡ Perform a complete thermal analysis before committing a design to this device package. For more information, see the *Operating Requirements for Altera Devices Data Sheet,* available at www.digikey.com.

ALTERA®

Configuration Devices

During device operation, Altera® FPGA's store configuration data in SRAM cells. Because SRAM memory is volatile, the SRAM cells must be loaded with configuration data each time the device powers up. You can configure the devices using data stored in an Altera configuration device. Altera configuration devices are offered in different densities and provide a variety of features.

Memory Size (BIT)	On-Chip Decompression Support	ISP Support	Reprogrammable	Voltage (V)	Package	Digi-Key Part No.	Price Each	Altera Part No.
65K	No	No	No	5.0/3.3	8-PDIP	544-1221-5-ND*	5.50	EPC1064PC8
65K	No	No	No	5.0	8-PDIP	544-1368-5-ND*	7.70	EPC1064PI8
65K	No	No	No	5.0	20-PLCC	544-1367-5-ND*	9.10	EPC1064LI20
212K	No	No	No	5.0	8-PDIP	544-1370-5-ND*	13.25	EPC1213PI8
212K	No	No	No	5.0	20-PLCC	544-1369-5-ND*	15.00	EPC1213LI20
400K	No	No	No	5.0/3.3	8-PDIP	544-1224-5-ND*	3.50	EPC1441PC8
400K	No	No	No	5.0/3.3	8-PDIP	544-1225-5-ND*	4.90	EPC1441PI8
400K	No	No	No	5.0/3.3	20-PLCC	544-1223-5-ND*	3.50	EPC1441LC20
440K	No	No	No	5.0/3.3	20-PLCC	544-1371-5-NDΔ*	3.50	EPC1441LC20N
440K	No	No	No	5.0/3.3	32-TQFP	544-1372-ND	3.95	EPC1441TC32
1M	No	No	No	5.0/3.3	8-PDIP	544-1232-5-ND*	15.50	EPC1PI8
1M	No	No	No	5.0/3.3	8-PDIP	544-1375-5-NDΔ*	15.50	EPC1PI8N
1M	No	No	No	5.0/3.3	8-PDIP	544-1222-5-ND*	9.50	EPC1213PC8
1M	No	No	No	5.0/3.3	8-PDIP	544-1231-5-ND*	11.00	EPC1PC8
1M	No	No	Yes	3.3	8-SOIC	544-1241-5-ND*	3.50	EPCS1SI8
1M	No	No	Yes	3.3	8-SOIC	544-1242-5-NDΔ*	3.50	EPCS1SI8N
1M	No	No	No	5.0/3.3	20-PLCC	544-1229-5-ND*	12.50	EPC1LC20
1M	No	No	No	5.0/3.3	20-PLCC	544-1230-5-ND*	17.50	EPC1LI20
1.6M	No	Yes	Yes	5.0/3.3	20-PLCC	544-1233-5-ND*	33.50	EPC2LC20
1.6M	No	Yes	Yes	5.0/3.3	20-PLCC	544-1234-5-ND*	45.00	EPC2LI20
1.6M	No	Yes	Yes	5.0/3.3	20-PLCC	544-1376-5-NDΔ*	33.50	EPC2LC20N
1.6M	No	Yes	Yes	5.0/3.3	32-TQFP	544-1235-ND	37.50	EPC2TC32
1.6M	No	Yes	Yes	5.0/3.3	32-TQFP	544-1236-ND	52.50	EPC2TI32
1.6M	No	Yes	Yes	5.0/3.3	32-TQFP	544-1377-NDΔ	37.50	EPC2TC32N
4M	Yes	Yes	Yes	3.3	100-PQFP	544-1237-ND	41.00	EPC4QC100
4M	Yes	Yes	Yes	3.3	100-PQFP	544-1378-NDΔ	41.00	EPC4QC100N
4M	No	Yes	Yes	3.3	8-SOIC	544-1243-5-ND*	13.00	EPCS4SI8
4M	No	Yes	Yes	3.3	8-SOIC	544-1379-5-NDΔ*	13.00	EPCS4SI8N
8M	Yes	Yes	Yes	3.3	100-PQFP	544-1238-ND	45.00	EPC8QC100
8M	Yes	Yes	Yes	3.3	100-PQFP	544-1239-ND	61.00	EPC8QI100
16M	No	No	Yes	3.3	16-SOIC	544-1240-5-NDΔ*	16.25	EPCS16SI16N
16M	Yes	Yes	Yes	3.3	88-UBGA	544-1228-ND	87.00	EPC16UC88
16M	Yes	No	No	3.3	88-UBGA	544-1373-ND	87.00	EPC16UC88AA
16M	Yes	No	No	3.3	88-UBGA	544-1374-NDΔ	87.00	EPC16UC88N
16M	Yes	Yes	Yes	3.3	100-PQFP	544-1226-ND	59.00	EPC16QC100
16M	Yes	Yes	Yes	3.3	100-PQFP	544-1227-ND	80.00	EPC16QI100
64M	No	Yes	Yes	3.3	16-SOIC	544-1380-5-NDΔ*	32.50	EPCS64SI16N

Δ **RoHS Compliant** * Tube

MAX II-DEVKIT-1270

Kit enables user to evaluate the MAX II feature set or begin prototyping a design prior to receiving custom hardware. It includes all software, cables, and accessories needed to ensure an easy and productive evaluation of the MAX II CPLD.

Kit Includes:

Max II Development Board:
• MAX II EPM1270F256C5ES CPLD • Universal serial bus (USB) media access control (MAC) with physical layer (PHY) and Type B connector • PCI Edge connector (3.3V and 5V tolerant) • LCD module • SRAM (128K x 8-bit) • Temperature gauge with serial peripheral interface (SPI) • Onboard power meter • Active I/O sense circuitry • One 3.3V tolerant expansion/prototype header (41 available user I/O pins) • Joint Test Action Group (JTAG) connectors • Four user-defined, push-button switches • Four user-defined LED's

Quartus® II Web Edition Design Software

Cable and Accessories: • ByteBlaster™ II Parallel Download Cable • Type A-B USB Cable (3 feet)

Reference Designs and Demos for MAX II Including: • USB reference design • PCI reference design • Low power demo • Real-time in-system programmability (ISP) demo

544-1136-ND MAX II Development Kit **$150.00**

NIOS-EVALKIT-1C12

Altera's Nios II evaluation kit provides a low-cost evaluation platform for the popular embedded processor architectures. Altera created this evaluation kit to make your initial Nois II experience easy and productive and to give you good understanding of the Nios II processor software development flow.

Kit Includes:

Nios II Evaluation Board:
• Cyclone™ EP1C12F324 • MAX® CPLD EPM7064 configuration controller • 16-Mbytes SDR SDRAM • 8-Mbyte flash • RJ-45 connector and 10/100 Ethernet physical layer (PHY) component • Two 2 x 10 I/O headers • Prototype area with up to 48 available user I/O, plus ground, 3.3V and 5.0V • USB connector, providing power and host communication • Two switches • Ten LED's • Power-on reset circuitry • 24-MHz oscillator • Speaker connector

Design Example and Applications: • Over 12 software example designs

Cores: • Nios II processor cores (with evaluation license)

Development Tools: • Nios II integrated development environment (IDE) (for PC's only) • Quartus® II Web Edition design software (for PC's only) • SOPC Builder system integration tool

Cables and Accessories: • USB Cable • Ethernet Cable (7 feet)

Note: Software engineers do not need any prior FPGA design experience to use the Nios II evaluation kit.

544-1137-ND NIOS II Evaluation Kit with Cyclone EP1C12 . . . . **$295.00**

Cubic Cyclonium

Cubic Cyclonium quickly and easily demonstrates the power and flexibility of FPGA's while highlighting the new Cyclone™ device, Nios® embedded processor, SOPC Builder and Quartus® II software.

Kit Includes:

Cubic Cyclonium:
• Cyclone EP1C6 Device • MAX® EPM7064AE CPLD configuration control logic • Single data rate (SDR) SDRAM (8-Mbytes, 32-bit wide) • EPCS4 Serial Configuration Device (4Mb) • Universal serial bus (USB 1.1 for communications and power (the Cubic Cyclonium gets its power from the USB port) • 168 LED display (8 x 21) • VGA output connector (VGA cable not included) • 10 I/O pins

Cable: • USB A to B Cable

Getting Started CD with PC-based Application

Getting Started Guide

544-1139-ND Cubic Cyclonium Demo Kit **$167.99**

Programming Unit

The APU is a hardware module that is used together with an appropriate adapter to program Altera devices. The APU connects to a PC via the USB port and receives power from a standard wall power adapter.

544-1244-ND (PL-APU). **$1995.00**

Programming Cable, USB

The USB-Blaster™ download cable interfaces to a standard USB PC port. The cable is a hardware interface to either a standard PC or UNIX workstation RS-232 port or a USB port. It provides configuration data to Excalibur, Mercury, APEX II, APEX 20K, ACEX 1K, FLEX 10K, FLEX 8000 and FLEX 6000 devices and programming data to MAX 9000, MAX 7000S, MAX 3000A, MAX 7000B and MAX 7000A devices.The MasterBlaster supports the SignalTap® feature, which allows designers to view internal device logic nodes with a virtual logic analyzer.

544-1245-ND USB (PL-USB-BLASTER-RB). **$300.00**

ByteBlaster™
Programming Cable

This cable can program and configure 1.8V, 2.5V, 3.3V and 5.0V devices. The cable also provides support for active serial programming of serial configuration devices. This cable drives configuration data from the PC to Stratix, Stratix GX, Cyclone, APEX II, APEX 20K (including APEX 20K, APEX 20KE, and APEX 20KC), ACEX 1K, Mercury, Excalibur, FLEX 10K (including FLEX 10KA and FLEX 10KE), FLEX 8000, and FLEX 6000 devices, as well as programming data to MAX 9000, MAX 7000S, MAX 7000AE, MAX 7000B, MAX 3000A devices and EPC/EPCS configuration devices.

544-1289-ND Parallel-Port Cable (PL-BYTEBLASTER2). **$150.00**

University Program Education Kits

UP3 Education Kits

Kit Includes:

- Quartus II Development Software, Version 4.1
- UP3 Development Board with a Cyclone™ EP1C6/12 Device
- ByteBlaster II Download Cable
- Power Supply

544-1291-ND (UP3-DK-1C6/UNIV) **$249.00**
544-1292-ND (UP3-DK-1C12/UNIV) **$249.00**

UP2 Education Kit

Kit Includes:

- Quartus II Development Software, Version 4.0
- UP2 Development Board with a FLEX 10® EPF10K70 Device
- ByteBlaster Download Cable
- Power Supply
- Digital Design and Implementation with Field Programmable Devices

544-1293-ND (UP2-DEVKIT/UNIV) **$99.00**

CPLDs (Complex Programmable Logic Devices)

Atmel offers a broad range of high-density, low-power, and cost-effective solutions enabling designers to create products that are "just what the market ordered." Based on a standard architecture, which uses industry standard development tools, Atmel's CPLDs offer the unique low-power or "L" feature while providing 100% connectivity. These devices are processed with Atmel's proprietary 0.65-micron processes and have a EEPROM memory.

The ATF750/C CPLDs are based on a 22V10-type architecture and provide market-leading capacity and flexibility in a 22V10 footprint with twice the registers and additional features for better logic utilization.

The ATF1500 Series is targeted at wider logic density, with higher number of I/O's. This family has devices from 44 to 160 pins, and 32 to 96 I/O's. High connectivity, and flexible architecture make these parts highly suitable for system design. In system programmability in the larger devices allow for reconfiguration even after the device is in the system.

Standard Development Tools:
Atmel's philosophy is that designers should be able to use known development tools. Third-party design tools such as Synario™, ABEL™, CUPL™, PPLDesigner-XL™, LOG/iC™, and PLDSyn™ support Atmel's EPLDs. Also Atmel-specific versions of the popular Synario, ABEL, and CUPL design tools are offered. In addition, workstation support is available on popular platforms with Viewlogic, MINC, Cadence, Mentor, and Synopsys.

Voltage	ISP	Tpd (ns)	Registers	Macro-cells	Usable Gates	Power Option	Package Type	Digi-Key Part No.	Price Each			Atmel Part No.
									1	25	100	
ATF750 Series												
5.0	No	7.5	20	10	500	Standard	28-PLCC	ATF750C-7JC-ND	10.54	7.55	7.06	ATF750C-7JC
							24-DIP	ATF750C-7PC-ND	10.54	7.55	7.06	ATF750C-7PC
							24-SOIC	ATF750C-7SC-ND	10.54	7.55	7.06	ATF750C-7SC
5.0	No	10	20	10	500	Standard	28-PLCC	ATF750C-10JC-ND	6.45	4.62	4.32	ATF750C-10JC
							28-PLCC	ATF750C-10JU-ND▲ ***NEW!***	7.80	6.24	5.27	ATF750C-10JU
							24-DIP	ATF750C-10PC-ND	6.45	4.62	4.32	ATF750C-10PC
							24-DIP	ATF750C-10PU-ND▲ ***NEW!***	7.80	6.24	5.27	ATF750C-10PU
							24-SOIC	ATF750C-10SC-ND	6.45	4.62	4.32	ATF750C-10SC
5.0	No	15	20	10	750	Standard	28-PLCC	ATF750C-15JC-ND	4.24	3.03	2.84	ATF750C-15JC
							24-DIP	ATF750C-15PC-ND	4.24	3.03	2.84	ATF750C-15PC
							24-SOIC	ATF750C-15SC-ND	4.24	3.03	2.84	ATF750C-15SC
5.0	No	15	20	10	750	Low	28-PLCC	ATF750CL-15JC-ND	4.24	3.03	2.84	ATF750CL-15JC
							24-DIP	ATF750CL-15PC-ND	4.24	3.03	2.84	ATF750CL-15PC
							24-SOIC	ATF750CL-15SC-ND	4.24	3.03	2.84	ATF750CL-15SC
3 ~ 3.6	No	15	20	10	500	Standard	28-PLCC	ATF750LVC-15JC-ND	5.29	3.79	3.55	ATF750LVC-15JC
							24-DIP	ATF750LVC-15PC-ND	5.29	3.79	3.55	ATF750LVC-15PC
							24-SOIC	ATF750LVC-15SC-ND	5.29	3.79	3.55	ATF750LVC-15SC
3 ~ 3.6	No	15	20	10	500	Standard	24-TSSOP	ATF750LVC-15XU-ND▲ ***NEW!***	5.54	4.43	3.45	ATF750LVC-15XU
ATF1500 Series												
5.0	No	7.5	32	32	1000	Standard	44-TQFP	ATF1500A-7AC-ND	5.76	4.12	3.86	ATF1500A-7AC
							44-PLCC	ATF1500A-7JC-ND	5.76	4.12	3.86	ATF1500A-7JC
5.0	No	10	32	32	1500	Standard	44-TQFP	ATF1500A-10AC-ND	4.06	2.91	2.72	ATF1500A-10AC
							44-TQFP	ATF1500A-10AU-ND▲ ***NEW!***	4.25	3.41	2.65	ATF1500A-10AU
							44-PLCC	ATF1500A-10JC-ND	4.06	2.91	2.72	ATF1500A-10JC
							44-PLCC	ATF1500A-10JU-ND▲ ***NEW!***	4.25	3.41	2.65	ATF1500A-10JU
2.7	No	15	32	32	1500	Low	44-TQFP	ATF1500ABV-15AC-ND	5.25	3.75	3.51	ATF1500ABV-15AC
							44-PLCC	ATF1500ABV-15JC-ND	5.25	3.75	3.51	ATF1500ABV-15JC
5.0	No	20	32	32	1000	Low	44-TQFP	ATF1500AL-20AC-ND	4.24	3.03	2.84	ATF1500AL-20AC
							44-TQFP	ATF1500AL-20AU-ND▲ ***NEW!***	4.43	3.55	2.76	ATF1500AL-20AU
							44-PLCC	ATF1500AL-20JC-ND	4.24	3.03	2.84	ATF1500AL-20JC
							44-PLCC	ATF1500AL-20JU-ND▲ ***NEW!***	4.43	3.55	2.76	ATF1500AL-20JU
5.0	Yes	7.5	32	32	750	Standard	44-TQFP	ATF1502AS-7AC44-ND	3.85	2.60	2.24	ATF1502AS-7AC44
5.0	Yes	10	32	32	750	Standard	44-PLCC	ATF1502AS-10JC-ND	2.80	1.89	1.63	ATF1502AS-10JC44
							44-PLCC	ATF1502AS-10JU44-ND▲ ***NEW!***	3.67	2.94	2.29	ATF1502AS-10JU44
							44-TQFP	ATF1502AS-10AU44-ND▲ ***NEW!***	3.67	2.94	2.29	ATF1502AS-10AU44
		15	32	32	750	Standard	44-PLCC	ATF1502AS-15JI44-ND	2.48	2.18	1.88	ATF1502AS-15JI44
5.0	Yes	25	32	32	750	Low	44-TQFP	ATF1502ASL-25AC44-ND	2.80	1.89	1.63	ATF1502ASL-25AC44
							44-TQFP	ATF1502ASL-25AU44-ND▲ ***NEW!***	3.67	2.94	2.29	ATF1502ASL-25AU44
							44-PLCC	ATF1502ASL-25JC44-ND	2.80	1.89	1.63	ATF1502ASL-25JC44
							44-PLCC	ATF1502ASL-25JU44-ND▲ ***NEW!***	3.67	2.94	2.29	ATF1502ASL-25JU44
3 ~ 3.6	Yes	15	—	—	—	Standard	44-TQFP	ATF1502ASV-15AU44-ND▲ ***NEW!***	2.95	2.36	1.84	ATF1502ASV-15AU44
							44-PLCC	ATF1502ASV-15JU44-ND▲ ***NEW!***	2.95	2.36	1.84	ATF1502ASV-15JU44
3 ~ 3.6	Yes	20	32	32	750	Standard	44-TQFP	ATF1502ASV-20AC44-ND	2.11	1.42	1.23	ATF1502ASV-20AC44
							44-PLCC	ATF1502ASV-20JC44-ND	2.11	1.42	1.23	ATF1502ASV-20JC44
1.8	Yes	7	32	32	750	Ultra Low	44-TQFP	ATF1502BE-7AU44-ND▲ ***NEW!***	2.70	2.16	1.68	ATF1502BE-7AU44
5.0	Yes	7.5	64	64	1500	Standard	44-TQFP	ATF1504AS-7AC44-ND	8.92	8.49	7.41	ATF1504AS-7AC44
							44-PLCC	ATF1504AS-7JC44-ND	9.03	6.09	5.25	ATF1504AS-7JC44
							84-PLCC	ATF1504AS-7JC84-ND	10.77	7.26	6.26	ATF1504AS-7JC84
							100-TQFP	ATF1504AS-7AC100-ND	10.45	7.04	6.07	ATF1504AS-7AC100
5.0	Yes	10	64	64	1500	Standard	44-PLCC	ATF1504AS-10JC44-ND	4.82	3.25	2.80	ATF1504AS-10JC44
							44-TQFP	ATF1504AS-10AU44-ND▲ ***NEW!***	5.42	4.34	3.66	ATF1504AS-10AU44
							84-PLCC	ATF1504AS-10JC84-ND	6.13	4.13	3.56	ATF1504AS-10JC84
							100-TQFP	ATF1504AS-10AC100-ND	5.81	3.91	3.37	ATF1504AS-10AC100
							100-TQFP	ATF1504AS-10AU100-ND▲ ***NEW!***	6.34	5.08	4.28	ATF1504AS-10AU100
							100-PQFP	ATF1504AS-10QC100-ND	8.00	5.39	4.65	ATF1504AS-10QC100
5.0	Yes	20	64	64	1500	Low	44-TQFP	ATF1504ASL-20AC44-ND	4.62	3.11	2.68	ATF1504ASL-20AC44
							84-PLCC	ATF1504ASL-20JC84-ND	6.02	4.06	3.50	ATF1504ASL-20JC84
							100-TQFP	ATF1504ASL20AC100-ND	5.70	3.84	3.31	ATF1504ASL-20AC100
							100-PQFP	ATF1504ASL20QC100-ND	7.87	5.30	4.57	ATF1504ASL-20QC100
5.0	Yes	25	64	64	1500	Low	44-TQFP	ATF1504ASL-25AU44-ND▲ ***NEW!***	6.28	5.03	4.24	ATF1504ASL-25AU44
							44-PLCC	ATF1504ASL-25JU44-ND▲ ***NEW!***	6.44	5.16	4.35	ATF1504ASL-25JU44
							100-TQFP	ATF1504ASL-25AU100-ND▲ ***NEW!***	7.22	5.78	4.88	ATF1504ASL-25AU100
3 ~ 3.6	Yes	15	64	64	1500	Standard	44-TQF P	ATF1504ASV-15AC44-ND	3.59	2.34	2.09	ATF1504ASV-15AC44
							44-TQFP	ATF1504ASV-15AU44-ND▲ ***NEW!***	4.84	3.87	3.01	ATF1504ASV-15AU44
							44-PLCC	ATF1504ASV-15JC44-ND	3.59	2.34	2.09	ATF1504ASV-15JC44
							44-PLCC	ATF1504ASV-15JU44-ND▲ ***NEW!***	4.73	3.78	2.94	ATF1504ASV-15JU44
							100-TQFP	ATF1504ASV15AC100-ND	5.16	3.36	3.00	ATF1504ASV-15AC100
							100-TQFP	ATF1504ASV-15AU100-ND▲ ***NEW!***	5.80	4.64	3.92	ATF1504ASV-15AU100
							100-PQFP	ATF1504ASV15QC100-ND	7.31	4.76	4.25	ATF1504ASV-15QC100
3 ~ 3.6	Yes	20	64	64	1500	Low	44-TQFP	ATF1504ASVL20AC44-ND	3.85	2.51	2.24	ATF1504ASVL-20AC44
							44-TQFP	ATF1504ASVL-20AU44-ND▲ ***NEW!***	5.18	4.14	3.22	ATF1504ASVL-20AU44
							44-PLCC	ATF1504ASVL-20JU44-ND▲ ***NEW!***	5.06	4.05	3.15	ATF1504ASVL-20JU44
							68-PLCC	ATF1504ASVL20JC68-ND	4.73	3.08	2.75	ATF1504ASVL-20JC68
							84-PLCC	ATF1504ASVL20JC84-ND	6.30	4.10	3.66	ATF1504ASVL-20JC84

* Industrial Temperature ▲ ***RoHS Compliant***

(Continued)

CPLDs (Complex Programmable Logic Devices) *(Cont.)*

Voltage	ISP	Tpd (ns)	Registers	Macrocells	Usable Gates	Power Option	Package Type	Digi-Key Part No.	Price Each			Atmel Part No.
									1	25	100	
3 ~ 3.6	Yes	20	64	64	1500	Low	100-TQFP	ATF1504ASVL20AC10-ND	5.53	3.60	3.22	ATF1504ASVL-20AC100
							100-TQFP	ATF1504ASVL-20AU100-ND▲ ***NEW!***	6.20	4.96	4.19	ATF1504ASVL-20AU100
							100-PQFP	ATF1504ASVL20QC10-ND	7.80	5.08	4.53	ATF1504ASVL-20QC100
5.0	Yes	7.5	1 28	128	3000	Standard	84-PLCC	ATF1508AS-7JC84-ND	13.55	9.14	7.56	ATF1508AS-7JC84
							100-TQFP	ATF1508AS-7AC100-ND	16.94	11.42	9.46	ATF1508AS-7AC100
							160-PQFP	ATF1508AS-7QC160-ND	22.47	15.15	12.54	ATF1508AS-7QC160
5.0	Yes	10	128	128	3000	Standard	84-PLCC	ATF1508AS-10JC84-ND	11.74	7.92	6.56	ATF1508AS-10JC84
							84-PLCC	ATF1508AS-10JU84-ND▲ ***NEW!***	11.38	10.25	9.09	ATF1508AS-10JU84
							100-TQFP	ATF1508AS-10AC100-ND	14.68	9.90	8.19	ATF1508AS-10AC100
							100-TQFP	ATF1508AS-10AU100-ND▲ ***NEW!***	14.09	12.69	11.26	ATF1508AS-10AU100
							100-PQFP	ATF1508AS-10QU100-ND▲ ***NEW!***	17.75	16.57	15.38	ATF1508AS-10QU100
5.0	Yes	20	128	128	3000	Low	84-PLCC	ATF1508ASL-20JC84-ND	9.57	6.45	5.34	ATF1508ASL-20JC84
							100-TQFP	ATF1508ASL20AC100-ND	11.95	8.07	6.68	ATF1508ASL-20AC100
							160-PQFP	ATF1508ASL20QC160-ND	16.51	11.13	9.21	ATF1508ASL-20QC160
5.0	Yes	25	28	128	3000	Low	84-PLCC	ATF1508ASL-25JU84-ND▲ ***NEW!***	9.80	8.82	7.83	ATF1508ASL-25JU84
							100-TQFP	ATF1508ASL-25AU100-ND▲ ***NEW!***	12.15	10.94	9.70	ATF1508ASL-25AU100
3 ~ 3.6	Yes	15	128	128	3000	Standard	84-PLCC	ATF1508ASV-15JC84-ND	9.14	6.16	5.10	ATF1508ASV-15JC84
							84-PLCC	ATF1508ASV-15JU84 -ND▲ ***NEW!***	8.75	7.88	6.99	ATF1508ASV-15JU84
							100-TQFP	ATF1508ASV15AC100-ND	10.21	6.89	5.70	ATF1508ASV-15AC100
							100-TQFP	ATF1508ASV-15AU100-ND▲ ***NEW!***	9.58	8.63	7.65	ATF1508ASV-15AU100
							100-PQFP	ATF1508ASV15QC100-ND	14.84	10.01	8.28	ATF1508ASV-15QC100
							160-PQFP	ATF1508ASV15QC160-ND	22.58	15.23	12.60	ATF1508ASV-15QC160
3 ~ 3.6	Yes	20	128	128	3000	Low	100-TQFP	ATF1508ASVL20AC10-ND	10.64	7.18	5.94	ATF1508ASVL-20AC100
							100-TQFP	ATF1508ASVL-20AU100-ND▲ ***NEW!***	10.00	9.00	7.98	ATF1508ASVL-20AU100
							84-PLCC	ATF1508ASVL20JC84-ND	9.57	6.45	5.34	ATF1508ASVL-20JC84
							84-PLCC	ATF1508ASVL-20JU84-ND▲ ***NEW!***	9.16	8.25	7.32	ATF1508ASVL-20JU84
							84-PLCC	ATF1508ASV20QC160-ND	23.44	15.81	13.08	ATF1508ASVL-20QC160
ATF2500 Series												
5	No	15	48	24	1500	Standard	44-PLCC	ATF2500C-15JC-ND	6.45	4.95	4.35	ATF2500C-15JC
		15				Standard	44-PLCC	ATF2500C-15JU-ND▲ ***NEW!***	7.88	6.31	5.32	ATF2500C-15JU
		20				Standard	44-PLCC	ATF2500C-20JC-ND	5.72	4.39	3.86	ATF2500C-20JC
		20				Standard	40-DIP	ATF2500C-20PC-ND	5.72	4.39	3.86	ATF2500C-20PC
		20				Standard	40-DIP	ATF2500C-20PU-ND▲ ***NEW!***	7.02	5.62	4.74	ATF2500C-20PU
		20				Low	40-PLCC	ATF2500CL-20JI-ND*	6.19	4.76	4.18	ATF2500CL-20JI

* Industrial Temperature ▲ ***RoHS Compliant***

ATF15xx-DK2 CPLD Development Kit

The ATF15xx-DK2 is a second generation low-cost development programmer kit for the designer who wishes to begin working with Atmel's ATF15xx family of industry standard pin-compatible Complex Programmable Logic Devices (CPLD) with Logic Doubling™. Like the original ATF15xx-DK, the "DK2" allows designers to design, synthesize, simulate, program and evaluate their designs using their choice of either free Atmel-WinCUPL™ design software or a 30-day free trial version of Atmel-ProChip Designer™ using any 84-pin ATF15xx device, such as those provided with the kit. In addition, the kit can be extended to be used to program all of the Atmel ATF15xx Family with different packages by simply adding the package adapters (only PLCC84 is included in the kit). Once the design is completed, the designer can install a sample ATF15xx Family device in the provided PCB and program it using the built-in In-System-Programmable (ISP) industry-standard 4-pin JTAG interface, ATMISP software, and PC parallel port cable provided. The tutorial included takes the designer through the complete CPLD development process. All software runs on PC Windows™ platforms. In addition, mounting holes are provided to add wire-wrap terminals for all pins to allow comprehensive proto-typing and evaluation. The ATF15xx-DK2 includes everything a designer needs to get started with Atmel-Logic Doubling CPLDs including:

CPLD Demo Board/Programmer Board: • 84-lead PLCC Adapter • ISP (JAT) Port • Wire-wrap Terminal Holes-all Pins • 2 MHz Crystal Oscillator • Eight 8-segment LED Displays • 5V and 3.3V Vcc operation • Easy access to CPLD I/O pins • Global Clear, Output Enable and Power Switches

Logic Doubling™ CPLDs: • ATF1508AS-15JC84 5V 128 Macrocell CPLD with ISP • ATF1508ASVL-20JC84 3.3V Low-power 128 Macrocell CPLD with ISP

CPLD Programmable Cable: • 5V and 3.3V ISP cable for PC parallel port with Vcc Auto Detection

Software CD: • Free Atmel-WinCUPL design software and User's Manual • 30-day Trial Version of Atmel-ProChip Designer™ software • Logic Doubling Support and Documentation • Logic Doubling Reference • Atmel Databook CD

Atmel-WinCUPL:

Design Entry: • CUPL • Compilation • WinSIM Functional Simulation • Atmel Proprietary Device Filters with Logic Doubling

Atmel-ProChip Designer:Design Entry: • VHDL, Schematic, and CUPL • Synthesis • Functional Simulation • Atmel Proprietary Device Filters with Logic Doubling • Timing Simulation

ATF15XX-DK2-ND	CPLD Development Kit	**$93.94**
ATF15XX-SAA100-ND	100-TQFP Adapter	**$135.00**
ATF15XX-SAA44-ND	44-TQFP Adapter	**$35.00**
ATF15XX-SAJ44-ND	44-PLCC Adapter	**$35.00**
ATF15XX-SAQ100-ND	100-PQFP Adapter	**$135.00**
ATF15XX-SAQ160-ND	160-PQFP Adapter	**$149.00**
ATF15XX-DK3-ND	***NEW!*** CPLD Development Kit for ATF15XX	**$112.50**
ATF15XXDK3-SAA100-ND	***NEW!*** 100-PLCC/TQFP Adapter Socket for ATF15XXB	**$165.00**
ATF15XXDK3-SAJ44-ND	***NEW!*** 84/44 PLCC Adapter Socket for ATF15XXBE	**$42.00**
ATF15XXDK3-SAJ84-ND	***NEW!*** 84/84 PLCC Adapter Socket for ATF15XXBE	**$55.50**
ATDS1500PC-ND	Prochip Design Software	**$99.00**

FPGA Configurator Programming Kit (Enhanced) ATDH2200E

Atmel offers a low cost development kit for the designer who wishes to begin working with the AT17 Series of ISP FPGA configuration memories. The kit allows designers to read, write and in-system program any of Atmel's AT17 series family members directly from a PC. All standard file input formats produced by the various FPGA vendors are supported. The AT17 series devices can be programmed directly on the programming board or the board can be used to facilitate in-system programming of the AT17 series devices in the target application (cable provided). The ATDH2200E supports all Atmel AT17 series configuration memories.

FEATURES:

Hardware:

• Supports Programming of all AT17C/LV Series Devices • Connection to Allow In-System Prog. (ISP) • 5.0V or 3.0V Supply

Software:

• CPS - Configurator Programming System • GUI-based Interface • Supports Win95/Win98/WinNT • Online Help • Supports Programming Reset Polarity • Verification Routines to Validate Programming • Accepts HEX, MCS, POF, RBF and BST File Formats

System Contents:

• ATDH2200 Programming Board • ATDH2222 20-pin PLCC Adapter • CPS Software • ATDH2200E Datasheet • ATDH2200E Programming Kit User Guide • Standard (PC Printer Port) Parallel Cable • 10-pin Ribbon Cable for ISP • 9V DC, 200 mA, 2.1 mm Center Positive Power Supply • Sample AT17C/LV Devices

ATDH2200E-ND	FPGA Configurator Program Kit	**$414.90**
ATDH2221-ND	20-SOIC Adapter	**$140.00**
ATDH2222-ND	20-PLCC Adapter	**$140.00**
ATDH2224-ND	44-TQFP Adapter	**$149.00**
ATDH2225-ND	AT17 ISP Cable	**$88.75**
ATDH2227-ND	44-PLCC Adapter	**$149.00**
ATDH2227A-ND	44-PLCC Adapter	**$149.00**
ATDH2228-ND	8-LAP Adapter	**$149.00**

FPGA Configuration Memory

In-System Reprogrammable Serial EEPROMs

The AT17 Series FPGA Configuration EEPROMs (Configurators) provide an easy-to-use, cost-effective configuration memory for Field Programmable Gate Arrays. It uses a simple serial-access procedure to configure one or more FPGA devices. The organization supplies enough memory to configure one or multiple smaller FPGAs. The Configurators can be programmed with industry-standard programmers or Atmel's ATDH2200E Programming System. **FEATURES:** • EE Reprogrammable Serial Memories Designed to Store Configuration Programs for Field Programmable Gate Arrays (FPGAs) • In-System Programmable via 2-wire Bus • Simple Interface to SRAM FPGAs • Compatible with Atmel AT6000, AT40K FPGAs, Altera FLEX® Devices, ORCA® FPGAs, Xilinx XC3000, XC4000, XC5200, Spartan®, Virtex® FPGAs • Cascadable Read Back to Support Additional Configurations or Future Higher-density Arrays • Low-power CMOS EEPROM Process • Programmable Reset Polarity • Available in PLCC Package (Pin Compatible Across Product Family) • Emulation of Atmel's AT24CXXX Serial EEPROMs • Available in 3.3V ± 10% LV and 5V ± 5% C versions • System-friendly READY Pin • Low-power standby mode

Package Options	Memory Size	Vcc	Digi-Key Part No.	Price Each		
				1	25	100
20-SOIC	64Kbit	3.3	AT17LV65-10SI-ND	7.74	5.26	4.97
20-SOIC	64Kbit	3.3	AT17LV65-10SC-ND	6.45	4.38	4.14
8-DIP	64Kbit	3.3	AT17LV65-10PI-ND	6.45	4.38	4.14
8-DIP	64Kbit	3.3	AT17LV65-10PC-ND	5.81	3.94	3.73
8-SOIC	64Kbit	3.3	AT17LV65-10NI-ND	7.74	5.26	4.97
8-SOIC	64Kbit	3.3	AT17LV65-10NC-ND	6.45	4.38	4.14
8-LAP	64Kbit	3.3	AT17LV65-10CI-ND	6.97	5.38	4.88
8-LAP	64Kbit	3.3	AT17LV65-10CC-ND	5.55	4.37	3.94
20-PLCC	64Kbit	3.3	AT17LV65-10JI-ND	6.45	4.38	4.14
20-PLCC	64Kbit	3.3	AT17LV65-10JC-ND	5.81	3.94	3.73
8-SOIC	128Kbit	5.0	AT17C128-10NC-ND	9.78	6.87	6.25
8-LAP	128Kbit	5.0	AT17C128-10CC-ND	8.23	5.69	5.16
20-SOIC	128Kbit	3.3	AT17LV128-10SI-ND	16.51	11.21	10.60
20-SOIC	128Kbit	3.3	AT17LV128-10SC-ND	13.42	9.11	8.61
8-DIP	128Kbit	3.3	AT17LV128-10PI-ND	12.90	9.51	8.70
8-DIP	128Kbit	3.3	AT17LV128-10PC-ND	10.32	7.01	6.62
8-SOIC	128Kbit	3.3	AT17LV128-10NI-ND	16.51	11.21	10.60
8-SOIC	128Kbit	3.3	AT17LV128-10NC-ND	13.42	9.11	8.61
8-LAP	128Kbit	3.3	AT17LV128-10CI-ND	11.14	8.30	7.58
8-LAP	128Kbit	3.3	AT17LV128-10CC-ND	8.88	6.73	6.12
20-PLCC	128Kbit	3.3	AT17LV128-10JI-ND	15.48	11.27	10.33
20-PLCC	128Kbit	3.3	AT17LV128-10JC-ND	12.38	8.41	7.95
20-SOIC	256Kbit	3.3	AT17LV256-10SI-ND	14.45	9.81	9.27
20-SOIC	256Kbit	3.3	AT17LV256-10SC-ND	12.04	8.18	7.73
20-SOIC	256Kbit	3.3	AT17LV256-10SU-ND▲ ***NEW!***	11.20	10.08	8.94
8-DIP	256Kbit	3.3	AT17LV256-10PC-ND	10.84	7.36	6.96
8-DIP	256Kbit	3.3	AT17LV256-10PU-ND▲ ***NEW!***	9.33	8.40	7.45
8-SOIC	256Kbit	3.3	AT17LV256-10NI-ND	14.45	9.81	9.27
8-SOIC	256Kbit	3.3	AT17LV256-10NC-ND	12.04	8.18	7.73
8-SOIC	256Kbit	3.3	AT17LV256-10NU-ND▲ ***NEW!***	11.20	10.08	8.94
8-LAP	256Kbit	3.3	AT17LV256-10CU-ND▲ ***NEW!***	9.33	8.40	7.45
20-PLCC	256Kbit	3.3	AT17LV256-10JI-ND	12.04	8.18	7.73
20-PLCC	256Kbit	3.3	AT17LV256-10JC-ND	10.84	7.36	6.96
20-PLCC	256Kbit	3.3	AT17LV256-10JU-ND▲ ***NEW!***	9.33	8.40	7.45
8-LAP	512Kbit	5.0	AT17C512-10CC-ND	18.00	13.29	12.21
8-DIP	512Kbit	3.3	AT17LV512-10PI-ND	16.13	10.95	10.35
8-DIP	512Kbit	3.3	AT17LV512-10PC-ND	14.51	9.86	9.32
8-LAP	512Kbit	3.3	AT17LV512-10CI-ND	17.42	11.83	11.18
8-LAP	512Kbit	3.3	AT17LV512-10CC-ND	13.87	9.42	8.90
20-PLCC	512Kbit	3.3	AT17LV512-10JI-ND	16.13	10.95	10.35
20-PLCC	512Kbit	3.3	AT17LV512-10JC-ND	14.51	9.86	9.32
20-PLCC	512Kbit	3.3	AT17LV512-10JU-ND▲ ***NEW!***	7.50	6.00	5.07
20-SOIC	512Kbit	3.3	AT17LV512-10SI-ND	19.35	13.14	12.42
20-SOIC	512Kbit	3.3	AT17LV512-10SC-ND	16.13	10.95	10.35
20-PLCC	512Kbit	3.3	AT17LV512A-10JI-ND	8.06	5.48	5.18
20-PLCC	512Kbit	3.3	AT17LV512A-10JC-ND	7.27	4.93	4.66
20-PLCC	512Kbit	3.3	AT17LV512A-10JU-ND▲ ***NEW!***	7.50	6.00	5.07
8-DIP	512Kbit	3.3	AT17LV512A-10PI-ND	8.06	5.48	5.18
8-DIP	512Kbit	3.3	AT17LV512A-10PC-ND	7.27	4.93	4.66
8-DIP	1-Mbit	3.3	AT17LV010-10PI-ND	27.84	18.91	17.87
8-DIP	1-Mbit	3.3	AT17LV010-10PC-ND	22.27	15.13	14.30
8-DIP	1-Mbit	3.3	AT17LV010-10PU-ND▲ ***NEW!***	15.54	14.51	13.47
8-LAP	1-Mbit	3.3	AT17LV010-10CI-ND	24.06	16.34	15.44
8-LAP	1-Mbit	3.3	AT17LV010-10CU-ND▲ ***NEW!***	15.54	14.51	13.47
20-PLCC	1-Mbit	3.3	AT17LV010-10JI-ND	33.41	22.69	21.45
20-PLCC	1-Mbit	3.3	AT17LV010-10JC-ND	26.72	18.15	17.16
20-PLCC	1-Mbit	3.3	AT17LV010-10JU-ND▲ ***NEW!***	18.65	17.41	16.16
20-SOIC	1-Mbit	3.3	AT17LV010-10SI-ND	35.65	24.20	22.89
20-SOIC	1-Mbit	3.3	AT17LV010-10SC-ND	28.96	19.66	18.59
20-PLCC	1-Mbit	3.3	AT17LV010A-10JI-ND	21.52	16.72	14.32
20-PLCC	1-Mbit	3.3	AT17LV010A-10JC-ND	17.20	13.14	11.61
20-PLCC	1-Mbit	3.3	AT17LV010A-10JU-ND▲ ***NEW!***	13.33	12.00	10.64
8-DIP	1-Mbit	3.3	AT17LV010A-10PI-ND	17.93	13.66	11.92
8-DIP	1-Mbit	3.3	AT17LV010A-10PC-ND	14.34	9.68	8.68
32-TQFP	1-Mbit	3.3	AT17LV010A-10QI-ND	21.52	15.31	14.09
32-TQFP	1-Mbit	3.3	AT17LV010A-10QC-ND	17.20	13.13	11.60

Package Options	Memory Size	Vcc	Digi-Key Part No.	Price Each		
				1	25	100
8-LAP	2-Mbit	5.0	AT17C002-10CC-ND	31.33	24.01	22.18
20-PLCC	2-Mbit	5.0	AT17C002-10JC-ND	35.27	27.21	25.17
8-LAP	2-Mbit	3.3	AT17LV002-10CI-ND	43.41	29.56	27.36
8-LAP	2-Mbit	3.3	AT17LV002-10CC-ND	34.79	24.01	22.18
8-LAP	2-Mbit	3.3	AT17LV002-10CU-ND▲ ***NEW!***	30.29	28.27	26.25
20-PLCC	2-Mbit	3.3	AT17LV002-10JI-ND	49.71	33.57	31.11
20-PLCC	2-Mbit	3.3	AT17LV002-10JC-ND	39.75	27.21	25.17
20-PLCC	2-Mbit	3.3	AT17LV002-10JU-ND▲ ***NEW!***	34.68	32.37	30.06
44-PLCC	2-Mbit	3.3	AT17LV002-10BJI-ND	49.71	33.57	31.11
44-PLCC	2-Mbit	3.3	AT17LV002-10BJC-ND	39.75	27.21	25.17
20-SOIC	2-Mbit	3.3	AT17LV002-10SC-ND	41.75	28.35	26.80
20-SOIC	2-Mbit	3.3	AT17LV002-10SI-ND	50.70	34.42	32.54
20-SOIC	2-Mbit	3.3	AT17LV002-10SU-ND▲ ***NEW!***	34.68	32.37	30.06
44-TQFP	2-Mbit	3.3	AT17LV002-10TQI-ND	49.71	33.57	31.11
44-TQFP	2-Mbit	3.3	AT17LV002-10TQC-ND	39.75	27.21	25.17
20-PLCC	2-Mbit	3.3	AT17LV002A-10JU-ND▲ ***NEW!***	15.00	14.00	13.00
44-PLCC	4-Mbit	3.3	AT17LV040-10BJC-ND	47.30	32.12	30.36
44-PLCC	4-Mbit	3.3	AT17LV040-10BJI-ND	51.60	35.04	33.12
44-TQFP	4-Mbit	3.3	AT17LV040-10TQI-ND	51.60	35.04	33.12
44-TQFP	4-Mbit	3.3	AT17LV040-10TQC-ND	43.00	29.20	27.60
44-TQFP	4-Mbit	3.3	AT17LV040-10TQU-ND▲ ***NEW!***	36.00	33.60	31.20
8-LAP	4-Mbit	3.3	AT17F040-30CC-ND	16.04	12.13	11.43
8-LAP	4-Mbit	3.3	AT17F040-30CU-ND▲ ***NEW!***	13.83	12.45	11.04
20-PLCC	4-Mbit	3.3	AT17F040-30JC-ND	22.58	17.08	16.10
20-PLCC	4-Mbit	3.3	AT17F040-30JI-ND	25.97	19.64	18.52
20-PLCC	4-Mbit	3.3	AT17F040-30JU-ND▲ ***NEW!***	18.12	16.92	15.71
20-PLCC	4-Mbit	3.3	AT17F040-30VJC-ND	22.58	17.08	16.10
20-PLCC	4-Mbit	3.3	AT17F040-30VJC-ND	22.58	17.08	16.10
20-PLCC	4-Mbit	3.3	AT17F040-30VJI-ND	25.97	19.64	18.52
8-LAP	4-Mbit	3.3	AT17F040A-30CU-ND▲ ***NEW!***	9.88	8.90	7.89
20-PLCC	4-Mbit	3.3	AT17F040A-30JC-ND	16.13	12.20	11.50
20-PLCC	4-Mbit	3.3	AT17F040A-30JI-ND	18.55	14.03	13.23
20-PLCC	4-Mbit	3.3	AT17F040A-30JU-ND▲ ***NEW!***	14.38	12.95	11.48
32-TQFP	4-Mbit	3.3	AT17F040A-30QC-ND	16.13	12.20	11.50
32-TQFP	4-Mbit	3.3	AT17F040A-30QI-ND	18.55	14.03	13.23
44-PLCC	8-Mbit	3.3	AT17F080-30BJC-ND	38.70	29.28	27.60
44-PLCC	8-Mbit	3.3	AT17F080-30BJI-ND	44.51	33.67	31.74
8-LAP	8-Mbit	3.3	AT17F080-30CC-ND	27.48	20.79	19.60
8-LAP	8-Mbit	3.3	AT17F080-30CI-ND	30.57	23.13	21.80
8-LAP	8-Mbit	3.3	AT17F080-30CU-ND▲ ***NEW!***	21.33	19.91	18.49
20-PLCC	8-Mbit	3.3	AT17F080-30JC-ND	38.70	29.28	27.60
20-PLCC	8-Mbit	3.3	AT17F080-30JI-ND	44.51	33.67	31.74
20-PLCC	8-Mbit	3.3	AT17F080-30JU-ND▲ ***NEW!***	31.05	28.98	26.91
44-TQFP	8-Mbit	3.3	AT17F080-30TQC-ND	38.70	29.28	27.60
44-TQFP	8-Mbit	3.3	AT17F080-30TQI-ND	44.51	33.67	31.74
8-LAP	8-Mbit	3.3	AT17F080A-30CU-ND▲ ***NEW!***	15.79	14.22	12.61
20-PLCC	8-Mbit	3.3	AT17F080A-30JC-ND	25.80	19.52	18.40
20-PLCC	8-Mbit	3.3	AT17F080A-30JI-ND	29.67	22.45	21.16
20-PLCC	8-Mbit	3.3	AT17F080A-30JU-ND▲ ***NEW!***	20.70	19.32	17.94
32-TQFP	8-Mbit	3.3	AT17F080A-30QC-ND	25.80	19.52	18.40
32-TQFP	8-Mbit	3.3	AT17F080A-30QI-ND	29.67	22.45	21.16
44-PLCC	16-Mbit	3.3	AT17F16-30BJC-ND	64.50	48.80	46.00
44-PLCC	16-Mbit	3.3	AT17F16-30BJI-ND	74.18	56.12	52.90
8-LAP	16-Mbit	3.3	AT17F16-30CC-ND	45.80	34.65	32.66
8-LAP	16-Mbit	3.3	AT17F16-30CI-ND	50.96	38.55	36.34
8-LAP	16-Mbit	3.3	AT17F16-30CU-ND▲ ***NEW!***	35.55	33.18	30.81
20-PLCC	16-Mbit	3.3	AT17F16-30JC-ND	64.50	48.80	46.00
20-PLCC	16-Mbit	3.3	AT17F16-30JI-ND	74.18	56.12	52.90
20-PLCC	16-Mbit	3.3	AT17F16-30JU-ND▲ ***NEW!***	51.75	48.30	44.85
44-TQFP	16-Mbit	3.3	AT17F16-30TQC-ND	64.50	48.80	46.00
44-TQFP	16-Mbit	3.3	AT17F16-30TQI-ND	74.18	56.12	52.90
8-LAP	16-Mbit	3.3	AT17F16A-30CU-ND▲ ***NEW!***	24.89	23.23	21.57
20-PLCC	16-Mbit	3.3	AT17F16A-30JI-ND	51.92	39.28	37.03
20-PLCC	16-Mbit	3.3	AT17F16A-30JU-ND▲ ***NEW!***	36.23	33.81	31.40
44-PLCC	32-Mbit	3.3	AT17F32-30BJU-ND▲ ***NEW!***	41.40	38.64	35.88
44-PLCC	32-Mbit	3.3	AT17F32A-30BJU-ND▲ ***NEW!***	41.40	38.64	35.88

▲ ***RoHS Compliant***

FPGA's (Field Programmable Gate Arrays)

AT40K Series FPGAs

Atmel's AT40K Series coprocessor FPGAs range from 5K to 50K usable gates, and are designed for high density, compute-intensive DSP and other fast logic designs. The AT40K family sol ves the Logic vs. SRAM trade-off problem by providing fast, flexible, distributed 10ns FreeRAM™ without using valuable logic resources. Structured logic functions, including variable array multipliers can be implemented directly in core cells without using any bussing resources - providing dramatic improvements in speed, utilization, power and system cost.

The AT40K family has the ability to implement Cache Logic design, where part of the FPGA can be reprogrammed without loss of register data, while the remainder of the FPGA continues to operate without disruption. This is ideal for building adaptive filters, variable coefficient multipliers and other designs where the datapath can change to increase system performance.

All Atmel FPGAs can be designed using industry standard CAE tools for schematics, VHDL and Verilog on a PC, Sun, or HP workstation. Software tools are available on Atmel's website at: http://www.atmel.com/fpga_software.html

Features:

- Distributed, single/dual port 10ns SRAM, independent of logic cells
- Up to 384 PCI compliant I/Os
- Mixed 3V/5V capability
- Architecture optimized for efficient, ultrafast array multipliers
- Cache Logic® dynamic full/partial reconfigurability in-system
- Eight global clocks
- Efficient, industry-standard design tools, optimized for synthesis
- QuickChange™ tools for adaptive hardware designs
- Variety of surface mount packages
- All devices in family are pin-compatible

Usable Gates	Cells	Ram (Bits)	Speed (ns)	Vcc	I/O (Max.)	Package Options	Digi-Key Part No.	Price Each		
								1	25	100
5K-10K	256	2,048	2	5.0	62	84-PLCC	AT40K05-2AJC-ND	25.80	18.14	16.72
					62	84-PLCC	AT40K05-2AJI-ND	29.67	20.15	19.05
					78	100-TQFP	AT40K05-2AQI-ND	32.47	22.02	20.80
					114	144-LQFP	AT40K05-2BQC-ND	28.92	20.19	18.63
					128	160-PQFP	AT40K05-2CQC-ND	29.13	19.80	18.70

(Continued)

ATMEL FPGA's (Field Programmable Gate Arrays) *(Cont.)*

Usable Gates	Cells	Ram (Bits)	Speed (ns)	Vcc	I/O (Max.)	Package Options	Digi-Key Part No.	Price Each 1	25	100
5K-10K	256	2,048	2	5.0	128	208-PQFP	AT40K05-2DQI-ND	33.54	22.80	21.55
					128	208-PQFP	AT40K05-2DQC-ND	29.13	19.80	18.70
5K ~ 10K	256	2,048	1	3.3	62	84-PLCC	AT40K05AL-1AJC-ND	12.90	8.75	8.30
					78	100-TQFP	AT40K05AL-1AQC-ND	14.62	9.90	9.35
					128	208-PQFP	AT40K05AL-1DQC-ND	14.62	9.90	9.35
					128	208-PQFP	AT40K05AL-1DQI-ND	16.77	11.40	10.75
5K ~ 10K	256	2,048	3	3.3	62	84-PLCC	AT40K05LV-3AJC-ND	17.20	12.43	11.40
					114	144-TQFP	AT40K05LV-3BQC-ND	19.26	13.81	12.69
					128	208-PQFP	AT40K05LV-3DQC-ND	19.78	14.16	13.01
10K ~ 20K	576	4,608	2	5.0	62	84-PLCC	AT40K10-2AJC-ND	38.70	26.30	24.86
					62	84-PLCC	AT40K10-2AJI-ND	44.51	30.20	28.56
					78	100-TQFP	AT40K10-2AQC-ND	43.75	29.70	28.05
					114	144-LQFP	AT40K10-2BQC-ND	43.32	29.45	27.80
					161	208-PQFP	AT40K10-2DQC-ND	43.75	29.70	28.05
10K ~ 20K	954	4,608	1	3.3	114	144-LQFP	AT40K10AL-1BQC-ND	24.08	16.36	15.47
10K ~ 20K	576	4,608	3	3.3	62	84-PLCC	AT40K10LV-3AJC-ND	25.80	18.14	16.72
					161	208-PQFP	AT40K10LV-3DQC-ND	29.67	20.68	19.08
20K ~ 30K	1,024	8,192	2	5.0	62	84-PLCC	AT40K20-2AJC-ND	68.80	46.70	44.16
					62	84-PLCC	AT40K20-2AJI-ND	79.12	53.75	50.80
					78	100-TQFP	AT40K20-2AQC-ND	75.68	51.37	48.55
					114	144-LQFP	AT40K20-2BQC-ND	77.72	52.80	49.90
					161	208-PQFP	AT40K20-2DQC-ND	77.72	52.80	49.90
					161	208-PQFP	AT40K20-2DQI-ND	89.44	60.75	57.41
					193	240-PQFP	AT40K20-2EQC-ND	77.72	52.80	49.90
					193	240-PQFP	AT40K20-2EQI-ND	89.44	60.75	57.41
20K ~ 30K	1,024	8,192	3	3.3	62	84-PLCC	AT40K20LV-3AJC-ND	43.00	29.29	27.11
					114	144-TQFP	AT40K20LV-3BQC-ND	48.16	32.59	30.19
					161	208-PQFP	AT40K20LV-3DQC-ND	49.45	33.41	30.95
40K ~ 50K	2,304	18,432	2	5.0	114	144-LQFP	AT40K40-2BQC-ND	162.65	110.45	104.40
					161	208-PQFP	AT40K40-2DQC-ND	162.65	110.45	104.40
40K ~ 50K	2,304	18,432	1	3.3	114	144-TQFP	AT40K40AL-1BQI-ND	83.85	56.95	53.81
					161	208-PQFP	AT40K40AL-1DQI-ND	83.85	56.95	53.81
					193	240-PQFP	AT40K40AL-1EQI-ND	83.85	56.95	53.81
40K ~ 50K	2,304	18,432	3	3.3	114	144-TQFP	AT40K40LV-3BQC-ND	113.52	73.18	68.11
					161	208-PQFP	AT40K40LV-3DQC-ND	118.68	76.32	71.05

SPLDs (PAL Compatible 16V8, 20V8, 22V10)

Atmel SPLDs are products based on the classic PAL architecture and consist of the popular industry standard 16V8, 20V8, and 22V10 in different speed, package, and power specifications. Supported by a wide variety of development tools, these variations offer features such as quarter-power, low standby power, and zero (<25µA) standby power. Atmel's family of Flash-based electrically erasable devices combine proven high-performance and low-power technologies.

Usable Gates	Macro-Cells	Reg.	Tpd (ns)	(V)	Power Opt.	Package Type	Digi-Key Part No.	Price Each 1	25	100
250	8	8	10	5.0	Std.	20-PLCC	ATF16V8B-10JC-ND	2.80	2.00	1.88
						20-PLCC	ATF16V8B-10JU-ND▲ ***NEW!***	2.93	2.34	1.82
						20-Dip	ATF16V8B-10PC-ND	2.80	2.00	1.88
						20-SOIC	ATF16V8B-10SC-ND	2.80	2.00	1.88
250	8	8	15	5.0	Low	20-SOIC	ATF16V8B-15SU-ND▲ ***NEW!***	1.95	1.56	1.17
250	8	8	10	5.0	Qtr	20-PLCC	ATF16V8BQ-10JC-ND	2.26	1.52	1.31
						20-Dip	ATF16V8BQ-10PC-ND	2.26	1.52	1.31
						20-SOIC	ATF16V8BQ-10SC-ND	2.26	1.52	1.31
250	8	8	15	5.0	Qtr & Low	20-PLCC	ATF16V8BQL-15JC-ND	1.59	1.00	.93
						20-PLCC	ATF16V8BQL-15JU-ND▲ ***NEW!***	2.23	1.78	1.34
						20-Dip	ATF16V8BQL-15PU-ND▲ ***NEW!***	2.23	1.78	1.34
						20-SOIC	ATF16V8BQL-15SC-ND	1.59	1.00	.93
						20-SOIC	ATF16V8BQL-15SU-ND▲ ***NEW!***	2.23	1.78	1.34
						20-TSSOP	ATF16V8BQL-15XU-ND▲ ***NEW!***	2.54	2.04	1.59
250	8	8	5.0	5.0	Qtr & Std.	20-PLCC	ATF16V8C-5JC-ND	2.80	2.00	1.88
250	8	8	7.5	5.0	Std.	20-PLCC	ATF16V8C-7JC-ND	2.58	1.74	1.44
						20-PLCC	ATF16V8C-7JU-ND▲ ***NEW!***	3.51	2.81	2.19
						20-Dip	ATF16V8C-7PC-ND	2.58	1.74	1.44
						20-Dip	ATF16V8C-7PU-ND▲ ***NEW!***	2.70	2.16	1.68
						20-SOIC	ATF16V8C-7SC-ND	2.58	1.74	1.44
						20-SOIC	ATF16V8C-7SU-ND▲ ***NEW!***	3.51	2.81	2.19
						20-TSSOP	ATF16V8C-7XU-ND▲ ***NEW!***	3.96	3.17	2.47
250	8	8	12	5.0	Std. & Zero	20-PLCC	ATF16V8CZ-12JC-ND	3.23	2.47	1.99
						20-Dip	ATF16V8CZ-12PC-ND	3.23	2.47	1.99
						20-SOIC	ATF16V8CZ-12SC-ND	3.23	2.47	1.99
250	8	8	15	5.0	Std. & Zero	20-PLCC	ATF16V8CZ-15JC-ND	2.47	1.90	1.53
						20-PLCC	ATF16V8CZ-15JU-ND▲ ***NEW!***	2.59	2.07	1.61
						20-Dip	ATF16V8CZ-15PC-ND	2.47	1.90	1.53
						20-Dip	ATF16V8CZ-15PU-ND▲ ***NEW!***	2.59	2.07	1.61
						20-SOIC	ATF16V8CZ-15SC-ND	2.47	1.90	1.53
						20-SOIC	ATF16V8CZ-15SU-ND▲ ***NEW!***	2.59	2.07	1.61
						20-TSSOP	ATF16V8CZ-15XU-ND▲ ***NEW!***	3.38	2.70	2.10
250	8	8	10	3.0 ~ 5.5	Std.	20-PLCC	ATF16LV8C-10JC-ND	3.50	2.88	2.57
						20-PLCC	ATF16LV8C-10JI-ND	4.56	3.65	3.28
						20-PLCC	ATF16LV8C-10JU-ND▲ ***NEW!***	3.67	2.94	2.29
						20-Dip	ATF16LV8C-10PC-ND	3.50	2.88	2.57
						20-Dip	ATF16LV8C-10PI-ND	4.56	2.88	2.57
						20-SOIC	ATF16LV8C-10SC-ND	3.50	2.88	2.57
						20-SOIC	ATF16LV8C-10SI-ND	4.56	2.96	2.65
						20-TSSOP	ATF16LV8C-10XU-ND▲ ***NEW!***	3.67	2.94	2.29
300	8	8	7.5	5.0	Std.	28-PLCC	ATF20V8B-7JC-ND	5.72	3.86	3.33
						24-Dip	ATF20V8B-7PC-ND	5.72	3.86	3.33
						24-SOIC	ATF20V8B-7SC-ND	5.72	3.86	3.33
300	8	8	10	5.0	Std.	28-PLCC	ATF20V8B-10JC-ND	3.23	2.03	1.88
						28-PLCC	ATF20V8B-10JU-ND▲ ***NEW!***	3.38	2.70	2.10
						24-Dip	ATF20V8B-10PU-ND▲ ***NEW!***	4.39	3.51	2.73
						24-SOIC	ATF20V8B-10SC-ND	3.23	2.03	1.88
300	8	8	10	5.0	Qtr	28-PLCC	ATF20V8BQ-10JC-ND	3.23	2.18	1.88
						24-Dip	ATF20V8BQ-10PC-ND	3.23	2.18	1.88
300	8	8	15	5.0	Qtr & Low	28-PLCC	ATF20V8BQL-15JC-ND	1.94	1.31	1.20
						28-PLCC	ATF20V8BQL-15JU-ND▲ ***NEW!***	2.63	2.11	1.64
						24-Dip	ATF20V8BQL-15PC-ND	1.94	1.31	1.20
						24-Dip	ATF20V8BQL-15PU-ND▲ ***NEW!***	2.63	2.11	1.64
						24-SOIC	ATF20V8BQL-15SC-ND	1.94	1.31	1.20
500	10	10	20	3.0 ~ 5.5	Std.	28-PLCC	AT22LV10-20JC-ND	7.40	4.64	4.13
						24-Dip	AT22LV10-20PC-ND	7.40	4.64	4.13
						24-SOIC	AT22LV10-20SC-ND	7.93	4.98	4.43
500	10	10	25	3.0 ~ 5.5	Std.	28-PLCC	AT22LV10-25JC-ND	5.91	3.71	3.30
						24-Dip	AT22LV10-25PC-ND	5.91	3.71	3.30
						24-SOIC	AT22LV10-25SC-ND	6.45	4.05	3.60
500	10	10	25	3.0 ~ 5.5	Low	28-PLCC	AT22LV10L-25JC-ND	6.24	3.92	3.48
						24-SOIC	AT22LV10L-25SC-ND	6.77	4.25	3.78
500	10	10	5.0	5.0	Std.	28-PLCC	ATF22V10C-5JC-ND	6.45	4.34	3.74
500	10	10	7.5	5.0	Std.	28-PLCC	ATF22V10C-7JC-ND	3.23	2.18	1.88
						28-PLCC	ATF22V10C-7JU-ND▲ ***NEW!***	4.23	3.39	2.64
						24-Dip	ATF22V10C-7PC-ND	3.23	2.18	1.88
						24-SOIC	ATF22V10C-7SC-ND	3.23	2.18	1.88
500	10	10	10	5.0	Std.	28-PLCC	ATF22V10C-10JC-ND	2.26	1.52	1.31
			10			28-PLCC	ATF22V10C-10JU-ND▲ ***NEW!***	2.95	2.36	1.84
			10			24-Dip	ATF22V10C-10PC-ND	2.26	1.52	1.31
			10			24-SOIC	ATF22V10C-10SC-ND	2.26	1.52	1.31
			15			28-PLCC	ATF22V10C-15JU-ND▲ ***NEW!***	2.54	2.04	1.59
			15			24-Dip	ATF22V10C-15PU-ND▲ ***NEW!***	2.54	2.04	1.59
500	10	10	15	5.0	Qtr	28-PLCC	ATF22V10CQ-15JC-ND	2.15	1.45	1.20
						24-Dip	ATF22V10CQ-15PC-ND	2.15	1.45	1.20
						24-SOIC	ATF22V10CQ-15SC-ND	2.15	1.45	1.20
500	10	10	20	5.0	Qtr & Zero	28-PLCC	ATF22V10CQZ-20JC-ND	2.69	1.81	1.50
						28-PLCC	ATF22V10CQZ-20JU-ND▲ ***NEW!***	3.51	2.81	2.19
						24-Dip	ATF22V10CQZ-20PC-ND	2.69	1.81	1.50
						24-Dip	ATF22V10CQZ-20PU-ND▲ ***NEW!***	3.51	2.81	2.19
						24-SOIC	ATF22V10CQZ-20SC-ND	2.69	1.81	1.50
						24-SOIC	ATF22V10CQZ-20SU-ND▲ ***NEW!***	3.51	2.81	2.19
						24-TSSOP	ATF22V10CQZ-20XU-ND▲ ***NEW!***	3.51	2.81	2.19
500	10	10	12	5.0	Std. & Zero	28-PLCC	ATF22V10CZ-12JC-ND	6.45	4.39	3.75
						24-Dip	ATF22V10CZ-12PC-ND	6.45	4.39	3.75
						24-SOIC	ATF22V10CZ-12SC-ND	6.45	4.39	3.75
500	10	10	15	5.0	Std. & Zero	28-PLCC	ATF22V10CZ-15JC-ND	5.16	4.09	3.69
						24-Dip	ATF22V10CZ-15PC-ND	5.16	4.09	3.69
						24-SOIC	ATF22V10CZ-15SC-ND	5.16	4.09	3.69
500	10	10	10	3.0~ 5.0	Std.	28-PLCC	ATF22LV10C-10JU-ND▲ ***NEW!***	3.67	2.94	2.29
						24-Dip	ATF22LV10C-10PC-ND	2.80	1.89	1.56
						24-Dip	ATF22LV10C-10PU-ND▲ ***NEW!***	3.67	2.94	2.29
						24-SOIC	ATF22LV10C-10SC-ND	2.80	1.89	1.56
						24-SOIC	ATF22LV10C-10SU-ND▲ ***NEW!***	3.67	2.94	2.29
						24-TSSOP	ATF22LV10C-10XU-ND▲ ***NEW!***	3.67	2.94	2.29
500	10	10	25	3.0 ~ 5.5	Std. & Zero	28-PLCC	ATF22LV10CZ-25JC-ND	3.23	2.18	1.80
						24-Dip	ATF22LV10CZ-25PC-ND	3.23	2.18	1.80
						24-SOIC	ATF22LV10CZ-25SC-ND	3.23	2.18	1.80
500	10	10	30	3.0 ~ 5.5	Qtr & Zero	28-PLCC	ATF22LV10CQZ-30JC-ND	2.58	1.74	1.44
						28-PLCC	ATF22LV10CQZ-30JU-ND▲ ***NEW!***	3.38	2.70	2.10
						24-Dip	ATF22LV10CQZ-30PC-ND	2.58	1.74	1.44
						24-Dip	ATF22LV10CQZ-30PU-ND▲ ***NEW!***	3.38	2.70	2.10
						24-SOIC	ATF22LV10CQZ-30SC-ND	2.58	1.74	1.44
						24-SOIC	ATF22LV10CQZ-30SU-ND▲ ***NEW!***	3.38	2.70	2.10

▲ RoHS Compliant

AT91 Series Smart ARM® Microcontrollers

- **40-Series:** The ideal application module processor, for protocol stack handling and application layer processing in space constrained modules such as GPS, Bluetooth, GSM/GPRS, Wired Ethernet, Wireless LAN, TCP-IP networking. This family includes the M40800, R40008, FR4042 and FR40162.

- **RM9200:** Peripheral rich ARM9 microcontrollers with built-in 10/100 Ethernet MAC. Ideal for industrial control networking, communication bridging applications.

Every innovative system starts with standard products

The AT91 series is a rapidly expanding family of ARM-based microcontrollers, the default 32-bit standard. They are the ideal microcontroller for a next-generation product or your innovative application. Atmel is the ideal partner for future cost reductions by offering an aggressive ARM microcontroller and ASSP roadmap and software-compatible SoCs.

Development Kits and Third-Party Software Development Tools

Atmel supports the AT91 series with an extensive range of development and evaluation kits.

Product	Description	Contents
AT91EB40A	AT91 40-Series Evaluation Kit	Board, Supply cable, RS232 cable, Evaluation copies of ARM ADS and Green Hills® Software Development Tools
AT91EB42	AT91M42800A Evaluation Kit	Board, Supply cable, RS232 cable, Evaluation copies of ARM ADS and Green Hills Software Development Tools
AT91EB55	AT91M55800A Evaluation Kit	Board, Supply cable, RS232 cable, Evaluation copies of ARM ADS and Green Hills Software Development Tools
AT91MEC01	Memory Extension Card for EB40A, EB42 and EB55	Board and Connector
AT91RM9200-DK	AT91RM9200 Development/ Evaluation Kit	Board, Power Supply, RS232 cable, USB cable, Ethernet cable, Evaluation copies of ARM ADS and Green Hills Software Development Tools

A wide choice of development tools is available from qualified third-party suppliers. These include development packs, C and C++ compilers, assemblers, debuggers, JTAG ICE interfaces, real-time operating systems, board support packages and Flash programmers. This high level of support enables AT91 customers to develop their applications rapidly, with minimal expense and risk.

Part Number	ARM7TDMI	ARM920T	ARM926EJ-S	Clock Speed (MHz)*	SRAM (Bytes)	Flash (Bytes)	Boot ROM (Bytes)	External Bus Interface	SDRAM Interface	USART	Enhanced USART	SPI	TWI	SSC	PDC Channel	MCI	CAN	USB Device (Full Speed)	USB Host (Full Speed)	Ethernet MAC 10/100	LCD Controller
AT91M40800	X			40	8K	—	—	1	—	2	—	—	—	—	4	—	—	—	—	—	—
AT91R40008	X			70	256K	—	—	1	—	2	—	—	—	—	4	—	—	—	—	—	—
AT91FR4042	X			70	256K	512K	—	1	—	2	—	—	—	—	4	—	—	—	—	—	—
AT91FR40162	X			70	256K	2M	—	1	—	2	—	—	—	—	4	—	—	—	—	—	—
AT91M42800A	X			33	8K	—	—	1	—	2	—	2	—	—	8	—	—	—	—	—	—
AT91M55800A	X			33	8K	—	—	1	—	3	—	1	—	—	10	—	—	—	—	—	—
AT91RM9200		X		180	16K	—	128K	1	1	—	4	1	1	3	20	1	—	1	2	1	—

Part Number	16-bit Timers	PWM Controller	Period Interval Timer	zvee Timer	RTC	RTT	10-bit ADC Channel	10-bit DAC Channel	Power-On Reset	Brown Out Detection	On-chip RC Oscillator	High Current Pads	I/O Pins	Power Supply (V)	Packages	Samples	Production
AT91M40800	3	—	—	1	—	—	—	—	—	—	—	—	32	1.8-3.6	QFP100	Now	Now
AT91R40008	3	—	—	1	—	—	—	—	—	—	—	—	32	1.65-1.95 Core 2.7-3.6 I/O	QFP100	Now	Now
AT91FR4042	3	—	—	1	—	—	—	—	—	—	—	—	32	1.65-1.95 Core 2.7-3.6 I/O	BGA121	Now	Now
AT91FR40162	3	—	—	1	—	—	—	—	—	—	—	—	32	1.65-1.95 Core 2.7-3.6 I/O	BGA121	Now	Now
AT91M42800A	6	—	1	1	—	1	—	—	—	—	—	—	54	2.7-3.6 Core 2.7-5.5 I/O	QFP144 BGA144	Now	Now
AT91M55800A	6	—	—	1	1	—	8	2	—	—	—	—	58	2.7-3.6 Core/Analog 2.7-5.5 I/O	QFP176 BGA176	Now	Now
AT91RM9200	6	—	1	1	1	1	—	—	—	—	—	—	94	1.65-1.95 Core 1.65-3.6 I/O	QFP208 BGA256	Now	Now

ARM920T: ARM9TDMI RISC CPU, 16KB Instruction and 16KB Data caches, MMU, Write buffer and Embedded Trace Macrocell.

Enhanced USART: supports RS485, ISO7816, IrDA and modem control lines.

TWI: Two Wire Interface, interconnects components on a two-wire bus.

SSC: Serial Synchronous Controller, supports many serial synchronous communications protocols used in audio and telecom applications such as I2S, short or long frame sync.

MCI: Multimedia Card Interface, supports the Multimedia Card specification V2.2 and the SD Memory Card specification V1.0.

16-bit Timers: Capture/Compare, Waveform generation and PWM modes.

PDC: Peripheral Data Controller (DMA), transfers data between on-chip USART, SSC, SPI, MCI, ADC and the on and off-chip memories without CPU intervention.

* **Clock Speed:** Maximum clock speed at +85°C

AT91 ARM Thumb Microcontrollers

The best combination of low-power consumption, 32-bit performance and 16-bit system cost. The AT91 series provides the optimal combination of processing power, peripherals and memory blocks for demanding real-time applications that require high performance on a tight power budget. Its wide range of Real Time Operating Systems and sophisticated application development tools minimize the risk and time taken to bring new applications to the market. **Features:** • Optimal combination of large SRAM, ROM and Flash memories • Wide choice of on-chip peripherals • 3-stage instruction execution pipeline for high instruction throughout • Single-cycle memory access through EBI • Hardware multiplier-plus-barrel shifter gives DSP capability • PDC channels (on-chip DMA) free the processor for the application • Advanced power management provides idle mode and disables unused peripherals • Low-latency Advanced Interrupt Controller • Banked registers provide separate stacks and call/returns in interrupt modes • Wide choice of Real Time Operating Systems for ease of development of real-time applications • Extensive application development tools for rapid, low-risk software development • Widely used in embedded GPS systems, hand-held communications devices, wireless networking, industrial automation • Operating Temperature: Industrial -40°C ~ 85°C

Program Memory Type	Memory Size			I/O Pins	UART	TWI	SPI	Timer/ Counters (16-bit)	WDT	ADC	DAC	Clock Speed (MHz)	VCC (Core)	Oper. Temp.	Pkg.	Digi-Key Part No.	Price Each		
	Program Bytes	RAM Bytes	Boot ROM Bytes														1	25	100
Flash	2M	8K	—	32	2 (USART)	—	—	3	Yes	—	—	33MHz	2.7 ~ 3.6V	Ind.	120-BGA	AT91F40816-33CI-ND	43.00	26.00	25.00
Flash	32K	8K	—	32	2 (USART)	1	1	2	Yes	8-ch/10-bit	—	—	3.0 ~ 3.6V	Ind.	64-LQFP	AT91SAM7S321-AU-ND▲ ***NEW!***	7.30	5.84	4.93
Flash	256K	64K	—	32	3 (USART)	1	1	3	Yes	8-ch/10-bit	—	55MHz	3.0 ~ 3.6V	Ind.	64-LQFP	AT91SAM7S256AU001-ND	14.41	10.05	8.71
Flash	128K	32K	—	32	3 (USART)	1	1	3	Yes	8-ch/10-bit	—	55MHz	3.0 ~ 3.6V	Ind.	64-LQFP	AT91SAM7S128AU001-ND	11.83	8.25	7.15
Flash	64K	16K	—	32	3 (USART)	1	1	3	Yes	8-ch/10-bit	—	55MHz	3.0 ~ 3.6V	Ind.	64-LQFP	AT91SAM7S64-AU001-ND	9.46	6.60	5.50
Flash	32K	8K	—	21	2 (USART)	1	1	3	Yes	8-ch/10-bit	—	55MHz	3.0 ~ 3.6V	Ind.	48-LQFP	AT91SAM7S32-AU001-ND	6.99	4.88	4.07
Flash	128K	32K	—	60	2 (USART)	1	2	3	Yes	8-ch/10-bit	—	30MHz	3.0 ~ 3.6V	Ind.	100-LQFP	AT91SAM7X128-AU-ND▲ ***NEW!***	12.58	11.33	10.05
Flash	256K	64K	—	60	2 (USART)	1	2	3	Yes	8-ch/10-bit	—	30MHz	3.0 ~ 3.6V	Ind.	100-LQFP	AT91SAM7X256-AU- ND▲ ***NEW!***	14.41	12.98	11.51
Flash	128K	32K	—	60	2 (USART)	1	2	3	Yes	8-ch/10-bit	—	30MHz	3.0 ~ 3.6V	Ind.	100-LQFP	AT91SAM7XC128-AU-ND▲ ***NEW!***	12.58	11.33	10.05
Flash	256K	64K	—	60	2 (USART)	1	2	3	Yes	8-ch/10-bit	—	30MHz	3.0 ~ 3.6V	Ind.	100-LQFP	AT91SAM7XC256-AU-ND▲ ***NEW!***	14.41	12.98	11.51
—	—	256K	—	32	2 (USART)	—	—	3	Yes	—	—	70MHz	1.65 ~ 1.95V	Ind.	100-LQFP	AT91R40008-66AU-ND▲ ***NEW!***	9.91	8.93	7.92
—	—	136K	—	32	2 (USART)	—	—	3	Yes	—	—	33MHz	1.8 ~ 3.6V	Ind.	100-TQFP	AT91R40807-33AI-ND	31.50	18.61	17.58
—	128K	16K	128K	94	4 (USART)	1	1	6	Yes	—	—	180MHz	1.65 ~ 1.95V	Ind.	256-BGA	AT91RM9200-CJ-002-ND▲ ***NEW!***	21.23	16.53	15.52
—	—	16K	128K	94	4 (USART)	1	1	6	Yes	—	—	180MHz	1.65 ~ 1.95V	Ind.	208-PQFP	AT91RM9200-QU-002-ND▲ ***NEW!***	16.65	15.54	14.43
—	—	96K	—	63	5 (USART)	1	1	6	Yes	—	—	66MHz	1.65 ~ 1.95V	Ind.	100-LQFP	AT91RM3400-AU-ND▲ ***NEW!***	11.33	10.20	9.05
—	—	16K	—	57	2 (USART)	—	1	10	Yes	16-ch/10-bit	—	30MHz	3.0 ~ 3.6V	Ind.	176-LQFP	AT91SAM7A2-AU-ND	17.20	12.00	10.00
Flash	256K	32K	—	62	2 (USART)	1	2	9	Yes	16-ch/10-bit	—	—	3.0 ~ 3.6V	Ind.	100-LQFP	AT91SAM7A3-AU-ND▲ ***NEW!***	13.83	12.45	11.04
—	—	32K	—	96	2 (USART)	1	2	3	Yes	—	—	—	1.08 ~ 1.32V	Ind.	217-BGA	AT91SAM9261-CJ-ND▲ ***NEW!***	19.35	18.06	16.77
—	—	8K	—	58	3 (USART)	—	1	6	Yes	8-ch/10-bit	2-ch/10-bit	33MHz	2.7 ~ 3.6V	Ind.	176-LQFP	AT91M55800A-33AI-ND	20.81	14.84	13.65
—	—	8K	—	58	3 (USART)	—	1	6	Yes	8-ch/10-bit	2-ch/10-bit	33MHz	2.7 ~ 3.6V	Ind.	176-LQFP	AT91M55800A-33AU-ND▲ ***NEW!***	11.08	9.98	8.85
—	—	8K	—	54	2 (USART)	—	2	6	Yes	—	—	33MHz	2.7 ~ 3.6V	Ind.	144-LQFP	AT91M42800A-33AU-ND▲ ***NEW!***	9.08	8.18	7.25
—	—	8K	—	32	2 (USART)	—	—	3	Yes	—	—	40MHz	1.8 ~ 3.6V	Ind.	100-TQFP	AT91M40800-33AU-ND▲ ***NEW!***	7.20	5.76	4.86
—	—	4K	—	49	3 (USART)	—	1	9	Yes	8-ch/10-bit	—	40MHz	3.0 ~ 3.6V	Ind.	144-LQFP	AT91SAM7A1-AU-ND	12.69	8.85	7.38

▲ ***RoHS Compliant***

AT91 ARM Thumb Evaluation Kits

The Evaluation Kits are complete low-cost evaluation platforms, which enable real-time code development and exploration of the AT91 ARM Thumb microcontrollers.

The kits include: • Sample microcontroller • Evaluation Board with the Angel debug monitor • AT91 Getting Started CD-ROM with data sheets and examples • DB9 serial cable • 2.1mm power jack (power supply not included) • Evaluation copies of compilers and debuggers from Green Hills and ARM • SRAM • Flash • 2 Serial ports • Reset button and controller • Push buttons • LEDs • 20-pin JTAG ICE interface connector • Voltage regulation • Clock generator • Board self-test program • Angel debug monitor • Current consumption measurement capability • Expansion slots for add-on cards with user specific memories and peripherals

AT91EB63-ND	Evaluation Kit for the AT91 63 and 43 Series	**$285.78**
AT91EB40A-ND	Evaluation Kit for the AT91R40008	**$198.00**
AT91EB55-ND	Evaluation Kit for the AT91M55800A	**$250.00**
AT91EB42-ND	Evaluation Kit for the AT91M42800A	**$250.00**
AT91RM3400-DK-ND	Development Kit for the AT91RM3400	**$1990.00**
AT91SAM7A1-EK-ND	Evaluation Board for AT91SAM7A1	**$599.00**
AT91SAM7A2-EK-ND	Evaluation Board for AT91SAM7A2	**$599.00**
AT91SAM7A3-EK-ND	***NEW!*** Evaluation Board for AT91SAM7A3	**$250.00**
AT91SAM7S64-IAR-ND	Development Kit for AT91SAM7S64	**$295.00**
AT91SAM7S-EK-ND	Evaluation Kit for AT91SAM7S	**$149.00**
AT91SAM7X-EK-ND	***NEW!*** Evaluation Kit for AT91SAM7X256/128	**$250.00**
AT91SAM7XC-EK-ND	***NEW!*** Evaluation Kit for AT91SAM7XC256/128	**$300.00**
AT91SAM9261-EK-ND	***NEW!*** Evaluation Kit for AT91SAM926EJ-S	**$1170.00**
AT91SAM-ICE-ND	***NEW!*** Emulator for AT91 ARM7 / ARM9	**$129.00**

FPSLIC — Field Programmable System Level Integrated Circuit

FPSLIC — FPGA + AVR in one Package! The AT94K Series (FPSLIC family) is a combination of the popular Atmel AT40K series SRAM FPGAs and the high-performance Atmel AVR 8-bit RISC microcontroller with standard peripherals. • 2K ~ 18.4K Bits of Distributed Single/Dual Port FPGA User SRAM • High-performance DSP Optimized FPGA Core Cell • Dynamically Recon figurable In-System – FPGA Configuration Access. • FPGA Macro Library of Custom Peripherals **16 FPGA Supplied Internal Interrupts to AVR Up to Four External Interrupts to AVR 8 Global FPGA Clocks:** • Two FPGA Clocks Driven from AVR Logic • FPGA Global Clock Access Available from FPGA Core
Features: • Timer/Counters 8/16-bit: 2/1 • Watchdog Timer • UART: 2 • TWI (I2C) • PWM: 3 • JTAG • Clock Speed: 25MHz • V_{CC}: 3.0V ~ 3.6V

Gates	Core Cells	FPGA SRAM Bytes	Registers	I/O	AVR Program Memory Type	AVR Memory Size		AVR I/O Pins	ISP	Operating Temp.	Package	Digi-Key Part No.	Price Each		
						RAM Bytes	EEPROM Bytes						1	25	100
5K	256	256	436	46	ROMless	20K	—	8	—	Com.	84-PLCC	AT94K05AL-25AJC-ND	19.35	13.15	12.40
				46	ROMless	20K	—	8	—	Ind.	84-PLCC	AT94K05AL-25AJI-ND	22.25	15.10	14.30
				58	ROMless	20K	—	8	—	Com.	100-TQFP	AT94K05AL-25AQC-ND	20.32	16.54	13.05
				58	ROMless	20K	—	8	—	Ind.	100-TQFP	AT94K05AL-25AQI-ND	23.44	15.90	15.05
				82	ROMless	20K	—	8	—	Com.	144-LQFP	AT94K05AL-25BQC-ND	20.32	13.80	13.05
				82	ROMless	20K	—	8	—	Ind.	144-LQFP	AT94K05AL-25BQI-ND	24.62	16.70	15.75
				96	ROMless	20K	—	8	—	Com.	208-PQFP	AT94K05AL-25DQC-ND	23.65	16.05	15.15
				96	ROMless	20K	—	8	—	Ind.	208-PQFP	AT94K05AL-25DQI-ND	27.09	18.40	17.40
5K	256	2048	436	93	EEPROM	20K	—	8	Yes	Ind.	144-LQFP	AT94S05AL-25BQU-ND▲ ***NEW!***	19.80	18.48	17.16
5K	256	256	436	93	EEPROM	20K	64K	8	Yes	Com.	256-CABGA	AT94S05AL-25DGC-ND	28.38	19.25	18.20
10K	576	512	846	46	ROMless	36K	—	16	—	Com.	84-PLCC	AT94K10AL-25AJC-ND	32.25	21.90	20.70
				46	ROMless	36K	—	16	—	Ind.	84-PLCC	AT94K10AL-25AJI-ND	37.09	25.20	23.80
				58	ROMless	36K	—	16	—	Com.	100-TQFP	AT94K10AL-25AQC-ND	33.86	23.00	21.75
				58	ROMless	36K	—	16	—	Ind.	100-TQFP	AT94K10AL-25AQI-ND	39.02	26.50	25.06
				84	ROMless	36K	—	16	—	Com.	144-LQFP	AT94K10AL-25BQC-ND	33.86	23.00	21.75
				84	ROMless	36K	—	16	—	Ind.	144-LQFP	AT94K10AL-25BQI-ND	40.96	27.80	26.30
				84	ROMless	36K	—	16	—	Ind.	144-LQFP	AT94K10AL-25BQU-ND▲ ***NEW!***	23.63	22.05	20.48
				116	ROMless	36K	—	16	—	Com.	208-PQFP	AT94K10AL-25DQC-ND	39.35	26.70	25.25
				116	ROMless	36K	—	16	—	Com.	208-PQFP	AT94K10AL-25DQU-ND▲ ***NEW!***	27.45	25.62	23.79
				116	ROMless	36K	—	16	—	Ind.	208-PQFP	AT94K10AL-25DQI-ND	45.15	30.65	29.00
10K	576	512	846	84	EEPROM	36K	64K	16	Yes	Ind.	144-LQFP	AT94S10AL-25BQI-ND	53.43	36.25	34.30
				84	EEPROM	36K	64K	16	Yes	Ind.	144-LQFP	AT94S10AL-25BQU-ND▲ ***NEW!***	32.40	30.24	28.08
				137	EEPROM	36K	64K	16	Yes	Com.	256-CABGA	AT94S10AL-25DGC-ND	46.44	31.55	29.80
				137	EEPROM	36K	64K	16	Yes	Ind.	256-CABGA	AT94S10AL-25DGI-ND	53.43	36.25	34.30
40K	2304	2304	2862	84	ROMless	36K	—	16	—	Com.	144-LQFP	AT94K40AL-25BQC-ND	49.44	40.40	38.20
				84	ROMless	36K	—	16	—	Com.	144-LQFP	AT94K40AL-25BQU-ND▲ ***NEW!***	50.25	46.90	43.55
				84	ROMless	36K	—	16	—	Ind.	144-LQFP	AT94K40AL-25BQI-ND	72.03	48.90	46.20
				120	ROMless	36K	—	16	—	Com.	208-PQFP	AT94K40AL-25DQC-ND	69.12	46.95	44.41
				120	ROMless	36K	—	16	—	Ind.	208-PQFP	AT94K40AL-25DQI-ND	79.34	53.90	50.95
				162	EEPROM	36K	128K	16	Yes	Com.	256-CABGA	AT94S40AL-25DGC-ND	81.59	55.40	52.36
				162	EEPROM	36K	128K	16	Yes	Ind.	256-CABGA	AT94S40AL-25DGI-ND	93.85	63.70	60.26

▲ ***RoHS Compliant***

ATFS10-CU-ND	***NEW!*** FPSLIC Support Device for AT94K10	**$7.78**
ATFS40-CU-ND	***NEW!*** FPSLIC Support Device for AT94K40	**$8.33**

ATSTK94 FPSLIC Starter Kit

The ATSTK94 is a low-cost development kit for the designer who wishes to begin working with Atmel's award-winning FPSLIC™ (FIELD PROGRAMMABLE SYSTEM-LEVEL INTEGRATION) AT94K family of devices. The kit allows designers to design, synthesize, simulate and program Atmel's new FPSLIC products. A comprehensive tutorial takes designers through the complete FPSLIC development process. **Features:** • ATK94K40 Device • AT17LV010 Device • ISP Port for Direct Download from PC • Push-button Switches and LEDs • 4 Alphanumeric LED Displays • 2 RS232 Transmit/Receive Ports • 18.432MHz, 4MHz and 32KHz Clock Sources • Power Management Circuitry (9V Power Supply included) • Access to all FPSLIC Pins via Headers • The System Designer™ Software (4-Month License)

ATSTK94-ND FPSLIC Starter Kit **$494.67**

STK594 Development Kit

The kit allows designers to design, simulate, synthesize and program Atmel's FPSLIC devices. The STK594 includes hardware allowing full support for the new features found on the FPSLIC devices. An additional RS-232 Driver, a 32kHz Real-Time Clock and a Two-Wire Serial Interface are among the new features. The STK594 kit consists of a development kit board, which features: • STK500 Compatibility • AT94K10AL and AT17FS10 devices • Access to all FPSLIC Pins via Headers • Additional RS-232 Driver and Connector • On-Board 32kHz Clock Oscillator for Easy Real-Time Clock implementations • JTAG Header for On-Chip Debugging using the JTAG ICE • System Designer Software Suite with a four-month license • ATDH2225 In-System Programming Cable • Comprehensive User Guide and Tutorial

ATSTK594-ND STK594 Development Kit........ **$99.00**

MARC 4 Programmer

The TMEB893 is the programmer for Atmel's MARC 4 MTPs M48C893, M48C510 and the U9380. This programmer works together with the PC or stand alone. In the stand alone mode the programmer writes the last stored MARC 4 program to the target chip. The memory inside the programmer is buffered by an accumulator. Two buttons and two LEDs on top control the operation of the programmer. It allows single-chip as well as in-system programming.

TMEB893-ND MARC 4 Programmer **$334.01**

USB Development Kits

Description	Digi-Key Part No.	Price Each
USB HUB Development Kit for AT43301	AT43DK301-ND	138.75
IC USB HUB Controller, 4-Port, 32-LQFP	AT43301-AU-ND▲ ***NEW!***	2.30
IC USB HUB Controller, 4-Port, 24-SOIC	AT43301-SU-ND▲ ***NEW!***	2.13
USB HUB Development Kit for AT43312A	AT43DK312A-ND	373.75
IC USB HUB Controller, 4 Port, 32-LQFP	AT43 312A-AC-ND	2.02
USB HUB/Embedded Development Kit for AT43USB320A	AT43DK320A-ND	189.00
IC USB MCU Embedded Hub AVR, 100-LQFP	AT43USB320A-AC-ND	4.58
USB Development Kit for AT43USB326x for AVR based MCU's	AT43DK326-ND	189.00
IC USB Keyboard Controller Hub, 48-LQFP	AT43USB326-AC-ND	2.73
IC USB Keyboard Controller Hub, 48-LQFP	AT43USB326-AU-ND▲ ***NEW!***	3.02
USB Development Kit for AT43USB325x for AVR based MCU's	AT43DK325-ND	373.75
IC USB Keyboard Controller Hub, 64-LQFP	AT43USB325E-AC-ND	5.01
IC USB Keyboard Controller Hub, 64-LQFP	AT43USB325E-AU-ND▲ ***NEW!***	5.40
IC USB Host/Function Processor, 100-LQFP	AT43USB370E-AC-ND	8.21
USB Development Kit for AT43USB35x for AVR based MCU's	AT43DK355-ND	188.75
IC USB Host/Function Processor, 64-LQFP	AT43USB355E-AC-ND	6.21
IC USB MCU W/H UB, ADC, PWM, 64-LQFP	AT43USB355E-AU-ND▲ ***NEW!***	5.92
USB Host/Function Development Kit for AT43USB380 OTG/Host FunctionProcessor	AT43DK380-PDC2-ND	148.75
USB AT43USB380 Reference Design Board	AT43DK380-BD2-ND	549.00
IC USB Processor, 64 LQFP	AT43USB380E-AU-ND▲ ***NEW!***	7.84
Development Kit for AT90CAN128 MCU	ATDVK90CAN1-ND▲ ***NEW!***	135.00

▲ ***RoHS Compliant***

AVR® 8-BIT RISC Microcontrollers

STK500 Starter Kit

The Atmel AVR® STK500 is a starter kit and development system for Atmel's AVR flash microcontrollers. The STK500 gives designers a quick start to develop code on the AVR combined with features for using the starter kit to develop prototypes and test new designs. The STK500 interfaces with AVR Studio®, Atmel's Integrated Development Environment (IDE) for code writing and debugging.

ATSTK500-ND		**$79.00**

NEW! Programmer

Description	Digi-Key Part No.	Price Each
ISP In-System Programmer	ATAVRISP2-ND	34.00

Emulators

Description	Digi-Key Part No.	Price Each
ICE40 In-Circuit Emulator	ATICE40-ND	995.00
JTAGICE Emulator for AVR 2/OCD	ATJTAGICE2-ND	299.00
Probe JTAG ICE with Flex Cables	ATJTAGPROBE-ND	39.00

Evaluation Kit

Description	Digi-Key Part No.	Price Each
Butterfly Evaluation Kit	TAVRBFLY-ND	19.99
Evaluation Kit for AT90USB	AT90USBKEY-ND ***NEW!***	31.25
Starter Kit for AT90USB	ATSTK525-ND ***NEW!***	199.00

Adapters

The AVR ICE50 is a top-of-the-line development tool for complete in-circuit emulation of most AVR 8-bit RISC microcontrollers. The ICE50 and the AVR Studio4 user interface give the user complete control of the internal resources of the microcontroller, helping to reduce development time by making debugging easier.

ATICE50-ND	Emulator	**$3500.00**
ATICE50PROBE-ND	Probe with Flex Cables	**$79.30**
ATICE50POD-ND	Replacement POD for ICE40, ICE50	**$437.50**
ATADAP128_TOP-ND	TOP Adapter Module for MEGA64	**$187.50**
ATADAPMEGA162-ND	Personality Adapter for ATMEGA162	**$39.00**
ATADAPMEGA32-ND	Personality Adapter for ATMEGA32	**$39.00**
ATADAPMEGA8-ND	Personality Adapter for ATMEGA8	**$38.75**
ATADAPTEST-ND	ICE50 Adapter Test	**$38.75**
ATADAPTINY26-ND	Personality Adapter for ATTINY26	**$38.75**
ATADAP169_TOP-ND	Personality Adapter for ATMEGA169	**$180.00**
ATADAPT2313-ND	Personality Adapter for ATTiny2313	**$39.00**
ATADAPTINY13-ND	Personality Adapter for ATTiny13	**$39.00**
AVRSERVICE-ND	Cable Replacement for ICE Emulators	**$8.42**
ATICE50MEM-ND	ICE50 Extension Memory Card	**$225.00**

Expansion Modules

Description	Digi-Key Part No.	Price Each
Module for STK501	ATSTK501-ND	79.00
Module for STK502	ATSTK502-ND	99.00
Module for STK503	ATSTK503-ND	119.00
Module for STK504	ATSTK504-ND	119.00
Module for STK505	ATSTK505-ND	79.00
Module for STK520	ATSTK520-ND	79.00
CAN Extension for STK500/501	ATADAPCAN01	19.00

	Starter Kits						Emulators		
Part Number	**STK500 & ISP**	**STK501**	**STK502**	**ATADAPCAN01**	**AVRBFLY**	**AT90EIT1**	**ICE40**	**ICE50**	**JTAGICE2**
ATTINY11	Yes	—	—	—	—	—	—	—	—
ATTINY12	Yes	—	—	—	—	—	—	—	—
ATTINY13	Yes	—	—	—	—	—	—	—	Yes
ATTINY15	Yes	—	—	—	—	—	—	—	—
ATTINY26	Yes	—	—	—	—	—	Yes	Yes	—
ATTINY28	Yes	—	—	—	—	—	—	—	—
ATTINY2313	Yes	—	—	—	—	—	—	—	Yes
AT90CAN128	Yes‡	Yes	—	Yes	—	—	—	Yes	Yes
AT90S1200	Yes‡	—	—	—	—	—	—	—	—
AT90S2313	Yes	—	—	—	—	—	—	—	—
AT90S2323	Yes	—	—	—	—	—	—	—	—
AT90S2343	Yes	—	—	—	—	—	—	—	—
ATMEGA128	Yes‡	Yes	Yes	—	—	Yes	—	Yes	Yes
ATMEGA16	Yes	—	—	—	—	—	—	Yes	Yes
ATMEGA162	Yes	—	—	—	—	—	—	Yes	Yes
ATMEGA169	Yes‡	—	Yes	—	Yes	—	—	Yes	Yes
ATMEGA32	Yes	—	—	—	—	—	—	Yes	Yes
ATMEGA48	Yes	—	—	—	—	—	—	—	Yes
ATMEGA64	Yes‡	Yes	Yes	—	—	—	—	Yes	Yes
ATMEGA8	Yes	—	—	—	—	—	Yes	Yes	—
ATMEGA8515	Yes	—	—	—	—	—	—	Yes	—
ATMEGA8535	Yes	—	—	—	—	—	—	Yes	—
ATMEGA88	Yes	—	—	—	—	—	—	—	Yes

‡Must use Expansion Module in conjunction with STK500

AVR® 8-Bit RISC Microcontrollers

Atmel's new AVR microcontrollers have a RISC core running single cycle instructions and a well-defined I/O structure that limits the need for external components. Internal oscillators, timers, UART, SPI, pull-up resistors, pulse width modulation, ADC, analog comparator and watch dog timers are some of the features you will find in AVR devices. AVR instructions are tuned to decrease the size of the program whether the code is written in C or Assembly. With on-chip in-system programmable Flash and EEPROM, the AVR is a perfect choice in order to optimize cost and get product to the market quickly.

The AVR is a low-power CMOS 8-bit series of microcontrollers based on the AVR RISC architecture. By executing powerful instructions in a single clock cycle, they achieve throughputs approaching 1 MIPS per MHz allowing the system designer to optimize power consumption versus processing speed. The AVR core combines a rich instruction set with the 32 general purpose working registers. All 32 registers are directly connected to the Arithmetic Logic Unit, allowing two independent registers to be accessed in one single instruction executed in one clock cycle. The resulting architecture is more code efficient while achieving throughputs up to ten times faster than conventional CISC microcontrollers.

General Features:

• Utilizes the AVR high-performance and low-power RISC architecture • 32 x 8 general purpose working registers • Programming lock for Flash program and EEPROM data security • Low-power idle and power down modes • External and internal interrupt sources • Low-power, high speed CMOS process technology • Fully static operation

Memory Size (Bytes)			I/O	Timer/ Counters	Serial	PWM		Internal	Clock		JTAG/ Debug-		Oper- ating		Digi-Key	Price Each		
Program	RAM	EEPROM	Pins	8/16-bit	Communication	Channels	A/D	OSC	Speed	ISP	WIRE	VCC	Temp.†	Pkg.	Part No.	1	25	100
1K	—	—	6	1/—	—	—	—	Y	6MHz	—	—	4.0 ~ 5.5V	Com.	8-Dip	ATTINY11-6PC-ND	.54	.41	.38
													Ind.	8-Dip	ATTINY11-6PI-ND	.54	.41	.38
													Com.	8-SOIC	ATTINY11-6SC-ND	.54	.41	.38
													Ind.	8-SOIC	ATTINY11-6SI-ND	.54	.41	.38
1K	—	—	6	1/—	—	—	—	Y	2MHz	—	—	2.7 ~ 5.5V	Com.	8-Dip	ATTINY11L-2PC-ND	.54	.41	.38
													Ind.	8-Dip	ATTINY11L-2PI-ND	.54	.41	.38
													Com.	8-SOIC	ATTINY11L-2SC-ND	.54	.41	.38
													Ind.	8-SOIC	ATTINY11L-2SI-ND	.54	.41	.38
1K	—	64	6	1/—	—	—	—	Y (1MHz)	8MHz	Y	—	4.0 ~ 5.5V	Com.	8-Dip	ATTINY12-8PC-ND	1.83	1.15	1.06
													Ind.	8-Dip	ATTINY12-8PI-ND	1.83	1.15	1.06
													Com.	8-SOIC	ATTINY12-8SC-ND	1.72	1.08	1.00
													Ind.	8-SOIC	ATTINY12-8SI-ND	1.72	1.08	1.00
1K	—	64	6	1/—	—	—	—	Y (1MHz)	4MHz	Y	—	2.7 ~ 5.5V	Com.	8-Dip	ATTINY12L-4PC-ND	1.83	1.15	1.06
													Ind.	8-Dip	ATTINY12L-4PI-ND	1.83	1.15	1.06
													Com.	8-SOIC	ATTINY12L-4SC-ND	1.72	1.08	1.00
													Ind.	8-SOIC	ATTINY12L-4SI-ND	1.72	1.08	1.00
1K	—	64	6	1/—	—	—	—	Y (1MHz)	1.2MHz	Y	—	1.8 ~ 5.5V	Com.	8-Dip	ATTINY12V-1PC-ND	1.83	1.15	1.06
													Ind.	8-Dip	ATTINY12V-1PI-ND	1.83	1.15	1.06
													Com.	8-SOIC	ATTINY12V-1SC-ND	1.72	1.08	1.00
													Ind.	8-SOIC	ATTINY12V-1SI-ND	1.72	1.08	1.00
1K	64	64	6	1/—	—	2	4-ch/ 10-bit	Y (9.6MHz)	20MHz	Y	DW	2.7 ~ 5.5V	Ind.	20-MLF	ATTINY13-20MU-ND▲ ***NEW!***	1.63	1.30	.98
														8-Dip	ATTINY13-20PU-ND▲ ***NEW!***	1.63	1.30	.98
														8-PDIP	ATTINY13-20PI-ND	1.40	.88	.81
														8-SOIC	ATTINY13-20SU-ND▲ ***NEW!***	1.50	1.20	.90
														8-SOIC	ATTINY13-20SSU-ND▲ ***NEW!***	1.63	1.30	.98
1K	64	64	6	1/—	—	2	4-ch/ 10-bit	Y (9.6MHz)	10MHz	Y	DW	1.8 ~ 5.5V	Ind.	20-MLF	ATTINY13V-10MU-ND▲ ***NEW!***	1.63	1.30	.98
														8-Dip	ATTINY13V-10PU-ND▲ ***NEW!***	1.63	1.30	.98
														8-PDIP	ATTINY13V-10PI-ND	1.40	.88	.81
														8-SOIC	ATTINY13V-10SU-ND▲ ***NEW!***	1.50	1.20	.90
														8-SOIC	ATTINY13V-10SSU-ND▲ ***NEW!***	1.63	1.30	.98
1K	—	64	6	2/—	—	1	4-ch/ 10-bit	Y (1.6MHz)	1.6MHz	Y	—	2.7 ~ 5.5V	Com.	8-Dip	ATTINY15L-1PC-ND	2.24	1.40	1.30
													Ind.	8-Dip	ATTINY15L-1PI-ND	2.24	1.40	1.30
													Com.	8-SOIC	ATTINY15L-1SC-ND	2.13	1.34	1.24
													Ind.	8-SOIC	ATTINY15L-1SI-ND	2.13	1.34	1.24
1K	—	64	15	1/—	—	—	—	Y	4MHz	Y	—	2.7 ~ 6.0V	Ind.	20-Dip	AT90S1200-4PI-ND	3.01	2.23	1.99
2K	128	128	3	1/—	—	—	—	—	10MHz	Y	—	4.0 ~ 6.0V	Com.	8-Dip	AT90S2323-10PC-ND	3.23	2.39	2.13
2K	128	128	3	1/—	—	—	—	—	4MHz	Y		2.7 ~ 6.0V	Ind.	8-Dip	AT90LS2323-4PI-ND	3.63	2.69	2.40
2K	128	128	18	1/1	1(USART), SPI, TWI	4	—	Y (8MHz)	20MHz	Y	DW	2.7 ~ 5.5V	Ind.	20-Dip	ATTINY2313-20PI-ND	2.26	1.43	1.32
													Ind	20-Dip	ATTINY2313-20PU-ND▲ ***NEW!***	2.36	1.89	1.47
													Ind.	20-SOIC	ATTINY2313-20SI-ND	2.15	1.36	1.25
													Ind.	20-SOIC	ATTINY2313-20SU-ND▲ ***NEW!***	2.25	1.80	1.40
2K	128	128	18	1/1	1(USART), SPI, TWI	4	—	Y (8MHz)	20MHz	Y	DW	1.8 ~ 5.5V	Ind.	30-MLF	ATTINY2313V-10MU-ND▲ ***NEW!***	2.26	1.42	1.31
													Ind.	20-Dip	ATTINY2313V-10PU-ND▲ ***NEW!***	2.36	1.89	1.47
													Ind.	20-SOIC	ATTINY2313V-10SU-ND▲ ***NEW!***	2.25	1.80	1.40
2K	128	128	16	2/—	—	2	8-ch/ 10-bit	Y (8MHz)	16MHz	Y	—	4.5 ~ 5.5V	Com.	20-Dip	ATTINY26-16PC-ND	2.47	1.55	1.44
													Ind.	20-Dip	ATTINY26-16PU-ND▲ ***NEW!***	2.59	2.07	1.61
													Ind.	20-SOIC	ATTINY26-16SU-ND▲ ***NEW!***	2.48	1.98	1.54
													Com.	20-MLF	ATTINY26-16MC-ND	2.47	1.55	1.44
													Ind.	20-MLF	ATTINY26-16MI-ND	2.47	1.55	1.44
													Ind.	32-MLF	ATTINY26-16MU-ND▲ ***NEW!***	2.59	2.07	1.61
2K	128	128	16	2/—	—	2	8-ch/ 10-bit	Y (8MHz)	8MHz	Y	—	2.7 ~ 5.5V	Com.	20-Dip	ATTINY26L-8PC-ND	2.47	1.55	1.44
													Ind.	20-Dip	ATTINY26L-8PU-ND▲ ***NEW!***	2.47	1.55	1.44
													Ind.	20-Dip	ATTINY26L-8PI-ND	2.47	1.55	1.44
													Com.	20-SOIC	ATTINY26L-8SC- ND	2.37	1.49	1.38
													Ind.	20-SOIC	ATTINY26L-8SU-ND▲ ***NEW!***	2.37	1.49	1.38
													Com.	32-MLF	ATTINY26L-8MC-ND	2.47	1.55	1.44
													Ind.	32-MLF	ATTINY26L-8MU-ND▲ ***NEW!***	2.47	1.55	1.44
													Ind.	32-MLF	ATTINY26L-8MI-ND	2.47	1.55	1.44
2K	—	—	11	1/—	—	—	—	Y (1.2MHz)	4MHz	—	—	2.7 ~ 5.5V	Com.	28-Dip	ATTINY28L-4PC-ND	1.61	1.01	.94
													Ind.	28-Dip	ATTINY28L-4PI-ND	1.61	1.01	.94
													Com.	32-TQFP	ATTINY28L-4AC-ND	1.51	.95	.88
													Ind.	32-TQFP	ATTINY28L-4AI-ND	1.51	.95	.88
													Com.	32-MLF	ATTINY28L-4MC-ND	1.61	1.01	.94
													Ind.	32-MLF	ATTINY28L-4MI-ND	1.61	1.01	.94

† Com. = Commercial Temperature Range: 0°C ~ 70°C (32°F ~ 158°F); Ind. = Industrial Temperature Range: -40°C ~ 85°C (-40°F ~ 185°F) *A/D 8-ch./10-bit ▲ ***RoHS Compliant***

(Continued)

Memory Size (Bytes)			I/O	Timer/Counters	Serial	PWM		Internal	Clock		JTAG/Debug-		Operating		Digi-Key	Price Each		
Program	RAM	EEPROM	Pins	8/16-bit	Communication	Channels	A/D	OSC	Speed	ISP	WIRE	VCC	Temp.†	Pkg.	Part No.	1	25	100
2K	—	—	11	1/—	—	—	—	Y (1.2MHz)	1.2MHz	—	—	1.8 ~ 5.5V	Com.	28-Dip	ATTINY28V-1PC-ND	1.61	1.01	.94
													Ind.	28-Dip	ATTINY28V-1PI-ND	1.61	1.01	.94
													Com.	32-TQFP	ATTINY28V-1AC-ND	1.51	.95	.88
													Ind.	32-TQFP	ATTINY28V-1AI-ND	1.51	.95	.88
													Com.	32-MLF	ATTINY28V-1MC-ND	1.61	1.01	.94
													Ind.	32-MLF	ATTINY28V-1MI-ND	1.61	1.01	.94
4K	256	256	6	2/—	SPI, TWI	4	4-ch/ 10-bit	Y	10MHz	Y	DW	1.8 ~ 5.5V	Ind.	20-MLF	ATTINY45V-10MU-ND▲ ***NEW!***	2.48	1.98	1.49
													Ind.	8-Dip	ATTINY45V-10PI-ND	2.13	1.34	1.24
													Ind.	8-Dip	ATTINY45V-10PU-ND▲ ***NEW!***	2.13	1.34	1.24
													Ind.	8-SOIC	ATTINY45V-10SU-ND▲ ***NEW!***	2.02	1.27	1.18
4K	256	256	6	2/—	SPI	2	4-ch/ 10-bit	Y	20MHz	Y	DW	2.7 ~ 5.5V	Ind.	20-MLF	ATTINY45-20MU-ND▲ ***NEW!***	2.48	1.98	1.49
													Ind.	8-Dip	ATTINY45-20PU-ND▲ ***NEW!***	2.13	1.34	1.24
													Ind.	8-SOIC	ATTINY45-20SU-ND▲ ***NEW!***	2.02	1.27	1.18
4K	512	256	23	2/1	1 (USART), SPI, TWI	6	6-ch/ 10-bit	Y (8MHz)	20MHz	Y	DW	2.7 ~ 5.5V	Ind.	32-TQFP	ATMEGA48-20AI-ND*	2.58	1.62	1.50
													Ind.	32-TQFP	ATMEGA48-20AU-ND*▲ ***NEW!***	2.58	1.62	1.50
													Ind.	32-MLF	ATMEGA48-20MI-ND*	2.69	1.69	1.56
													Ind.	32-MLF	ATMEGA48-20MU-ND*▲ ***NEW!***	2.69	1.69	1.56
													Ind.	28-Dip	ATMEGA48-20PI-ND	2.69	1.69	1.56
													Ind	28-Dip	ATMEGA48-20PU-ND*▲ ***NEW!***	2.69	1.69	1.56
4K	512	256	23	2/1	1 (USART), SPI, TWI	6	6-ch/ 10-bit	Y (8MHz)	10MHz	Y	DW	1.8 ~ 5.5V	Ind.	32-TQFP	ATMEGA48V-10AI-ND*	2.58	1.62	1.50
													Ind.	32-TQFP	ATMEGA48V-10AU-ND*▲ ***NEW!***	2.58	1.62	1.50
													Ind.	32-MLF	ATMEGA48V-10MI-ND*	2.69	1.69	1.56
													Ind.	32-MLF	ATMEGA48V-10MU-ND*▲ ***NEW!***	2.69	1.69	1.56
													Ind.	28-Dip	ATMEGA48V-10PI-ND	2.69	1.69	1.56
													Ind.	28-Dip	ATMEGA48V-10PU-ND*▲ ***NEW!***	2.69	1.69	1.56
8K	1K	512	23	2/1	1 (USART), SPI, TWI	3	6-ch/ 10-bit	Y (8MHz)	16MHz	Y	—	4.5 ~ 5.5V	Com.	28-Dip	ATMEGA8-16PC-ND	3.66	2.30	2.13
													Ind.	28-Dip	ATMEGA8-16PI-ND	3.66	2.30	2.13
													Ind.	28-Dip	ATMEGA8-16PU-ND▲ ***NEW!***	3.66	2.30	2.13
													Com.	32-TQFP	ATMEGA8-16AC-ND*	3.55	2.23	2.06
													Ind.	32-TQFP	ATMEGA8-16AU-ND*▲ ***NEW!***	3.55	2.23	2.06
													Com.	32-MLF	ATMEGA8-16MC-ND*	3.66	2.30	2.13
													Ind.	32-MLF	ATMEGA8-16MI-ND*	3.66	2.30	2.13
													Ind.	32-MLF	ATMEGA8-16MU-ND*▲ ***NEW!***	3.66	2.30	2.13
8K	1K	512	23	2/1	1 (USART), SPI, TWI	3	6-ch/ 10-bit	Y (8MHz)	8MHz	Y	—	2.7 ~ 5.5V	Com.	28-Dip	ATMEGA8L-8PC-ND	3.66	2.30	2.13
													Ind.	28-Dip	ATMEGA8L-8PI-ND	3.66	2.30	2.13
													Ind.	28-Dip	ATMEGA8L-8PU-ND▲ ***NEW!***	3.66	2.30	2.13
													Com.	32-TQFP	ATMEGA8L-8AC-ND*	3.55	2.23	2.06
													Ind.	32-TQFP	ATMEGA8L-8AI-ND*	3.55	2.23	2.06
													Ind.	32-TQFP	ATMEGA8L-8AU-ND*▲ ***NEW!***	3.55	2.23	2.06
													Com.	32-MLF	ATMEGA8L-8MC-ND*	3.66	2.30	2.13
													Ind.	32-MLF	ATMEGA8L-8MI-ND*	3.66	2.30	2.13
													Ind.	32-MLF	ATMEGA8L-8MU-ND*▲ ***NEW!***	3.66	2.30	2.13
8K	1K	512	23	2/1	1 (USART), SPI, TWI	6	6-ch/ 10-bit	Y (8MHz)	20MHz	Y	DW	2.7 ~ 5.5V	Ind.	32-TQFP	ATMEGA88-20AI-ND*	3.76	2.36	2.19
														32-TQFP	ATMEGA88-20AU-ND*▲ ***NEW!***	3.76	2.36	2.19
														32-MLF	ATMEGA88-20MI-ND*	3.87	2.43	2.25
														32-MLF	ATMEGA88-20MU-ND*▲ ***NEW!***	3.87	2.43	2.25
														28-Dip	ATMEGA88-20PI-ND	3.87	2.43	2.25
														28-Dip	ATMEGA88-20PU-ND*▲ ***NEW!***	3.87	2.43	2.25
8K	1K	512	23	2/1	1 (USART), SPI, TWI	6	10-bit	(8MHz)	10MHz	Y	DW	1.8 ~ 5.5V	Ind.	32-TQFP	ATMEGA88V-10AU-ND*▲ ***NEW!***	3.76	2.36	2.19
														32-MLF	ATMEGA88V-10MI-ND*	3.87	2.43	2.25
														32-MLF	ATMEGA88V-10MU-ND*▲ ***NEW!***	3.87	2.43	2.25
														28-Dip	ATMEGA88V-10PI-ND	3.87	2.43	2.25
														28-Dip	ATMEGA88V-10PU-ND▲ ***NEW!***	3.87	2.43	2.25
8K	512	512	35	1/1	1 (USART), SPI	3	—	Y (8MHz)	16MHz	Y	—	4.5 ~ 5.5V	Com.	40-Dip	ATMEGA8515-16PC-ND	5.27	3.31	3.06
													Ind.	40-Dip	ATMEGA8515-16PI-ND	5.27	3.31	3.06
													Ind.	40-Dip	ATMEGA8515-16PU-ND▲ ***NEW!***	5.27	3.31	3.06
													Com.	44-PLCC	ATMEGA8515-16JC-ND	5.27	3.31	3.06
													Ind.	44-PLCC	ATMEGA8515-16JI-ND	5.27	3.31	3.06
													Com.	44-TQFP	ATMEGA8515-16AC-ND	5.16	3.24	3.00
													Ind.	44-TQFP	ATMEGA8515-16AU-ND▲ ***NEW!***	5.16	3.24	3.00
													Com.	44-MLF	ATMEGA8515-16MC-ND	5.27	3.31	3.06
													Ind.	44-MLF	ATMEGA8515-16MI-ND	5.27	3.31	3.06
													Ind.	44-MLF	ATMEGA8515-16MU-ND▲ ***NEW!***	5.27	3.31	3.06
8K	512	512	35	1/1	1 (USART), SPI	3	—	Y (8MHz)	16MHz	Y	—	2.7 ~ 5.5V	Com.	40-Dip	ATMEGA8515L-8PC-ND	5.27	3.31	3.06
													Ind.	40-Dip	ATMEGA8515L-8PI-ND	5.27	3.31	3.06
													Ind.	40-Dip	ATMEGA8515L-8PU-ND▲ ***NEW!***	5.27	3.31	3.06
													Ind.	44-TQFP	ATMEGA8515L-8AI-ND	5.16	3.24	3.00
													Ind.	44-TQFP	ATMEGA8515L-8AU-ND▲ ***NEW!***	5.16	3.24	3.00
													Com.	44-MLF	ATMEGA8515L-8MC-ND	5.27	3.31	3.06
													Ind.	44-MLF	ATMEGA8515L-8MI-ND	5.27	3.31	3.06
													Ind.	44-MLF	ATMEGA8515L-8MU-ND▲ ***NEW!***	5.27	3.31	3.06

† Com. = Commercial Temperature Range: 0°C ~ 70°C (32°F ~ 158°F); Ind. = Industrial Temperature Range: -40°C ~ 85°C (-40°F ~ 185°F) * A/D 8-ch/10-bit ▲ ***RoHS Compliant***

(Continued)

AVR® 8-Bit RISC Microcontrollers *(Cont.)*

Memory Size (Bytes)			I/O	Timer/ Counters	Serial	PWM		Internal	Clock		JTAG/ De[bug-		Oper- ating		Digi-Key	Price Each		
Program	RAM	EEPROM	Pins	8/16-bit	Communication	Channels	A/D	OSC	Speed	ISP	WIRE	VCC	Temp.†	Pkg.	Part No.	1	25	100
8K	512	512	32	2/1	1 (USART), SPI, TWI	4	8-ch 10-bit	Y (8MHz)	16MHz	Y	—	4.5 ~ 5.5V	Com.	40-Dip	ATMEGA8535-16PC-ND	5.70	3.58	3.31
													Ind.	40-Dip	ATMEGA8535-16PI-ND	5.70	3.58	3.31
													Ind.	40-Dip	ATMEGA8535-16PU-ND▲ ***NEW!***	5.70	3.58	3.31
													Com.	44-PLCC	ATMEGA8535-16JC-ND	5.70	3.58	3.31
													Com.	44-TQFP	ATMEGA8535-16AC-ND	5.59	3.51	3.25
													Ind.	44-TQFP	ATMEGA8535-16AI-ND	5.59	3.51	3.25
													Ind.	44-TQFP	ATMEGA8535-16AU-ND▲ ***NEW!***	5.59	3.51	3.25
													Com.	44-MLF	ATMEGA8535-16MC-ND	5.70	3.58	3.31
													Ind.	44-MLF	ATMEGA8535-16MI-ND	5.70	3.58	3.31
													Ind.	44-MLF	ATMEGA8535-16MU-ND▲ ***NEW!***	5.70	3.58	3.31
8K	512	512	32	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y (8MHz)	8MHz	Y	—	2.7 ~ 5.5V	Com.	40-Dip	ATMEGA8535L-8PC-ND	5.70	3.58	3.31
													Ind.	40-Dip	ATMEGA8535L-8PI-ND	5.70	3.58	3.31
													Ind.	40-Dip	ATMEGA8535L-8PU-ND▲ ***NEW!***	5.70	3.58	3.31
													Com.	44-PLCC	ATMEGA8535L-8JC-ND	5.70	3.58	3.31
													Ind.	44-PLCC	ATMEGA8535L-8JI-ND	5.70	3.58	3.31
													Com.	44-TQFP	ATMEGA8535L-8AC-ND	5.59	3.51	3.25
													Ind.	44-TQFP	ATMEGA8535L-8AI-ND	5.59	3.51	3.25
													Ind.	44-TQFP	ATMEGA8535L-8AU-ND▲ ***NEW!***	5.59	3.51	3.25
													Ind.	44-MLF	ATMEGA8535L-8MI-ND	5.70	3.58	3.31
													Ind.	44-MLF	ATMEGA8535L-8MU-ND▲ ***NEW!***	5.70	3.58	3.31
8K	512	512	27	1/1	SPI, TWI	10	11-ch/ 10-bit	Y (8MHz)	16MHz	Y	—	2.7 ~ 5.5V	Ind.	24-SOIC	AT90PWM2-16SQ-ND▲ ***NEW!***	4.70	3.77	2.93
													Ind.	32-QFN	AT90PWM3-16MQ-ND▲ ***NEW!***	5.33	4.27	3.32
													Ind.	32-SOIC	AT90PWM3-16SQ-ND▲ ***NEW!***	5.22	4.18	3.25
16K	1K	512	23	2/1	1 (USART), SPI, TWI	6	6-ch/10-bit	Y	10MHz	Y	DW	1.8 ~ 5.5V	Ind.	28-Dip	ATMEGA168V-10PI-ND	4.11	2.58	2.39
16K	1K	512	23	2/1	1 (USART), SPI, TWI	6	6-ch/10-bit	Y	20MHz	Y	DW	2.7 ~ 5.5V	Ind.	28-Dip	ATMEGA168-20PI-ND	4.11	2.58	2.38
16K	1K	512	35	2/1	2 (USART), SPI	4	—	—	8MHz	Y	—	4.0 ~ 5.5V	Com.	44-TQFP	ATMEGA161-8AC-ND	11.18	8.33	7.60
16K	1K	512	35	2/2	2 (USART), SPI	4	—	Y (8MHz)	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	40-PDip	ATMEGA162-16PI-ND	6.77	4.25	3.94
													Ind.	40-PDip	ATMEGA162-16PU-ND▲ ***NEW!***	6.77	4.25	3.94
													Ind.	44-TQFP	ATMEGA162-16AI-ND	6.67	4.19	3.88
													Ind.	44-TQFP	ATMEGA162-16AU-ND▲ ***NEW!***	6.67	4.19	3.88
													Ind.	44-MLF	ATMEGA162-16MU-ND▲ ***NEW!***	6.77	4.25	3.94
16K	1K	512	35	2/2	2 (USART), SPI	4	—	Y (8MHz)	8MHz	Y	JTAG	2.7 ~ 5.5V	Com.	44-TQFP	ATMEGA162V-1AC-ND	6.67	4.93	4.40
													Ind.	40-PDip	ATMEGA162V-8PI-ND	6.77	4.25	3.94
													Ind.	40-PDip	ATMEGA162V-8PU-ND▲ ***NEW!***	6.77	4.25	3.94
													Ind.	44-TQFP	ATMEGA162V-8AI-ND	6.67	4.19	3.88
													Ind.	44-TQFP	ATMEGA162V-8AU-ND▲ ***NEW!***	6.67	4.19	3.88
													Ind.	44-MLF	ATMEGA162V-8MI-ND	6.77	4.25	3.94
													Ind.	44-MLF	ATMEGA162V-8MU-ND▲ ***NEW!***	6.77	4.25	3.94
16K	1K	512	54	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA165V-8AU-ND▲ ***NEW!***	5.63	3.54	3.28
													Ind.	64-MLF	ATMEGA165V-8MI-ND	5.74	3.60	3.34
													Ind.	64-MLF	ATMEGA165V-8MU-ND▲ ***NEW!***	5.74	3.61	3.34
16K	1K	512	54	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA165-16AI-ND	5.63	3.54	3.28
													Ind.	64-TQFP	ATMEGA165-16AU-ND▲ ***NEW!***	5.63	3.54	3.28
													Ind.	64-MLF	ATMEGA165-16MI-ND	5.74	3.60	3.34
													Ind.	64-MLF	ATMEGA165-16MU-ND▲ ***NEW!***	5.74	3.61	3.34
16K	1K	512	32	2/1	1 (USART), SPI, TWI	3	8-ch/ 10-bit	Y (1MHz)	16MHz	Y	JTAG	2.7 ~ 5.5V	Com.	40-Dip	ATMEGA16-16PC-ND	6.56	4.12	3.81
													Ind.	40-Dip	ATMEGA16-16PI-ND	6.56	4.12	3.81
													Ind.	40-Dip	ATMEGA16-16PU-ND▲ ***NEW!***	6.56	4.12	3.81
													Ind.	44-TQFP	ATMEGA16-16AI-ND	6.45	4.05	3.75
													Ind.	44-TQFP	ATMEGA16-16AU-ND▲ ***NEW!***	6.45	4.05	3.75
													Com.	44-MLF	ATMEGA16-16MC-ND	6.56	4.12	3.81
													Ind.	44-MLF	ATMEGA16-16MU-ND▲ ***NEW!***	6.56	4.12	3.81
16K	1K	512	32	2/1	1 (USART), SPI, TWI	3	8-ch/ 10-bit	Y (8MHz)	8MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	44-TQFP	ATMEGA16L-8AU-ND▲ ***NEW!***	6.45	4.05	3.75
													Ind.	40-Dip	ATMEGA16L-8PI-ND	6.56	4.12	3.81
													Ind.	40-Dip	ATMEGA16L-8PU-ND▲ ***NEW!***	6.56	4.12	3.81
													Com.	44-MLF	ATMEGA16L-8MC-ND	6.56	4.12	3.81
													Ind.	44-MLF	ATMEGA16L-8MI-ND	6.56	4.12	3.81
													Ind.	44-MLF	ATMEGA16L-8MU-ND▲ ***NEW!***	6.56	4.12	3.81
16K	1K	512	54	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA169-16AI-ND	8.60	5.40	5.00
														64-TQFP	ATMEGA169-16AU-ND▲ ***NEW!***	8.60	5.40	5.00
														64-MLF	ATMEGA169-16MI-ND	8.71	5.47	5.06
														64-MLF	ATMEGA169-16MU-ND▲ ***NEW!***	8.71	5.47	5.06
16K	1K	512	54	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y (1MHz)	8MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-MLF	ATMEGA169L-8MI-ND	11.03	8.16	7.28
16K	1K	512	54	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y (1MHz)	8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA169V-8AI-ND	10.81	6.80	6.29
														64-TQFP	ATMEGA169V-8AU-ND▲ ***NEW!***	8.60	5.40	5.00
														64-MLF	ATMEGA169V-8MI-ND	8.71	5.47	5.06
														64-MLF	ATMEGA169V-8MU-ND▲ ***NEW!***	8.71	5.47	5.06
16K	1K	512	23	2/1	1 (USART), SPI, TWI	6	8-ch/ 10-bit	Y	20MHz	Y	—	1.8 ~ 5.5V	Ind.	32-TQFP	ATMEGA168-20AU-ND▲ ***NEW!***	4.00	3.54	3.28
														32-MLF	ATMEGA168-20MU-ND▲ ***NEW!***	4.11	2.58	2.39
														28-Dip	ATMEGA168-20PU-ND▲ ***NEW!***	4.11	2.58	2.39
16K	1K	512	23	2/1	1 (USART), SPI, TWI	6	8-ch/ 10-bit	Y	10MHz	Y	—	1.8 ~ 5.5V	Ind.	32-TQFP	ATMEGA168V-10AU-ND▲ ***NEW!***	4.00	2.51	2.33
														32-MLF	ATMEGA168V-10MU-ND▲ ***NEW!***	4.11	2.58	2.39
														28-Dip	ATMEGA168V-10PU-ND▲ ***NEW!***	4.11	2.58	2.39
32K	2K	1K	32	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y (8MHz)	16MHz	Y	JTAG	4.0 ~ 5.5V	Ind.	44-TQFP	ATMEGA32-16AU-ND▲ ***NEW!***	8.17	5.13	4.75
													Com.	40-Dip	ATMEGA32-16PC-ND	8.17	5.13	4.75
													Ind.	40-Dip	ATMEGA32-16PI-ND	8.17	5.13	4.75
													Ind.	40-Dip	ATMEGA32-16PU-ND▲ ***NEW!***	8.28	5.20	4.81
													Com.	44-TQFP	ATMEGA32-16AC-ND	8.17	5.13	4.75
													Ind.	44-MLF	ATMEGA32-16MU-ND▲ ***NEW!***	8.28	5.20	4.81
32K	2K	1K	32	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	8MHz	Y	JTAG	2.7 ~ 5.5V	Com.	40-Dip	ATMEGA32L-8PC-ND	8.17	5.13	4.75
														40-Dip	ATMEGA32L-8PU-ND▲ ***NEW!***	8.17	5.13	4.75

† Com. = Commercial Temperature Range: 0°C ~ 70°C (32°F ~ 158°F); Ind. = Industrial Temperature Range: -40°C ~ 85°C (-40°F ~ 185°F) *A/D 8-ch/10-bit ▲ ***RoHS Compliant*** *(Continued)*

AVR® 8-Bit RISC Microcontrollers *(Cont.)*

Memory Size (Byt es)			I/O Pins	Counters 8/16-bit	Timer/ Serial Communication	PWM Channels	A/D	Internal OSC	Clock Speed	ISP	JTAG/ Debug-WIRE	VCC	Oper-ating Temp.†	Pkg.	Digi-Key Part No.	Price Each		
Program	RAM	EEPROM														1	25	100
32K	2K	1K	32	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	44-TQFP	ATMEGA32L-8AU-ND▲ ***NEW!***	8.17	5.13	4.75
													Com.	44-MLF	ATMEGA32L-8MC-ND	8.17	5.13	4.75
													Ind.	44-MLF	ATMEGA32L-8MU-ND▲ ***NEW!***	8.17	5.13	4.75
32K	2K	1K	53	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEG A325V-8AI-ND	6.88	4.32	4.00
													Ind.	64-TQFP	ATMEGA325V-8AU-ND▲ ***NEW!***	6.88	4.32	4.00
													Ind.	64-MLF	ATMEGA325V-8MI-ND	6.99	4.38	4.06
													Ind.	64-MLF	ATMEGA325V-8MU-ND▲ ***NEW!***	6.99	4.39	4.06
32K	2K	1K	53	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA325-16AU-ND▲ ***NEW!***	6.88	4.32	4.00
													Ind.	64-MLF	ATMEGA325-16MI-ND	6.99	4.38	4.06
													Ind.	64-MLF	ATMEGA325-16MU-ND▲ ***NEW!***	6.99	4.39	4.06
32K	2K	1K	53	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA329V-8AU-ND▲ ***NEW!***	7.61	4.78	4.43
													Ind.	64-MLF	ATMEGA329V-8MI-ND	7.72	4.85	4.48
													Ind.	64-MLF	ATMEGA329V-8MU-ND▲ ***NEW!***	7.72	4.85	4.49
32K	2K	1K	53	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	ATMEGA329-16AU-ND▲ ***NEW!***	7.61	4.78	4.43
													Ind.	64-MLF	ATMEGA329-16MU-ND▲ ***NEW!***	7.72	4.85	4.49
32K	2K	1K	68	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA3250V-8AI-ND	7.25	4.55	4.22
													Ind.	100-TQFP	ATMEGA3250V-8AU-ND▲ ***NEW!***	7.25	4.55	4.21
32K	2K	1K	68	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	100-TQFP	ATMEGA3250-16AI-ND	7.25	4.55	4.21
													Ind.	100-TQFP	ATMEGA3250-16AU-ND▲ ***NEW!***	7.25	4.55	4.21
32K	2K	1K	68	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y	8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA3290V-8AI-ND	8.64	5.43	5.03
									8MHz			1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA3290V-8AU-ND▲ ***NEW!***	8.64	5.43	5.03
									16MHz			2.7 ~ 5.5V	Ind.	100-TQFP	ATMEGA3290-16AU-ND▲ ***NEW!***	8.64	5.43	5.03
40K	2K	512	18	1/1	TWI	1	—	Y	1MHz	Y	JTAG	4.0 ~ 25V	Ind.	48-LQFP	ATMEGA406-1AAU-ND▲ ***NEW!***	6.45	4.05	3.75
64K	4K	2K	53	2/2	2 (USART), SPI, TWI	8	8-ch/ 10-bit	Y	16MHz	Y	JTAG	2.7 ~ 5.5V	Com.	64-TQFP	ATMEGA64-16AC-ND	11.83	7.43	6.88
													Ind.	64-TQFP	ATMEGA64-16AU-ND▲ ***NEW!***	11.83	7.43	6.88
													Com.	64-MLF	ATMEGA64-16MC-ND	11.93	7.49	6.94
													Ind.	64-MLF	ATMEGA64-16MI-ND	11.93	7.49	6.94
													Ind.	64-MLF	ATMEGA64-16MU-ND▲ ***NEW!***	11.93	7.49	6.94
64K	4K	2K	53	2/2	2 (USART), SPI, TWI	8	8-ch/ 10-bit	Y (8MHz)	8MHz	Y	JTAG	2.7 ~ 5.5V	Com.	64-TQFP	ATMEGA64L-8AC-ND	11.83	7.43	6.88
													Ind.	64-TQFP	ATMEGA64L-8AI-ND	11.83	7.43	6.88
													Ind.	64-TQFP	ATMEGA64L-8AU-ND▲ ***NEW!***	11.83	7.43	6.88
													Com.	64-MLF	ATMEGA64L-8MC-ND	11.93	7.49	6.94
													Ind.	64-MLF	ATMEGA64L-8MI-ND	11.93	7.49	6.94
													Ind.	64-MLF	ATMEGA64L-8MU-ND▲ ***NEW!***	11.93	7.49	6.94
64K	4K	2K	32	2/1	1 (USART), SPI, TWI	6	8-ch/ 10-bit	Y (8MHz)	20MHz	Y	—	1.8 ~ 5.5V	Ind.	44-TQFP	ATMEGA644-20AU-ND▲ ***NEW!***	7.22	5.78	4.88
													Ind.	44-MLF	ATMEGA644-20MU-ND▲ ***NEW!***	7.32	5.86	4.95
													Ind.	40-DIP	ATMEGA644-20PU-ND▲ ***NEW!***	7.32	5.86	4.95
64K	4K	2K	32	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y (8MHz)	10MHz	Y	—	1.8 ~ 5.5V	Ind.	44-TQFP	ATMEGA644V-10AU-ND▲ ***NEW!***	7.22	5.78	4.88
													Ind.	44-MLF	ATMEGA644V-10MU-ND▲ ***NEW!***	7.32	5.86	4.95
													Ind.	40-DIP	ATMEGA644V-10PU-ND▲ ***NEW!***	7.32	5.86	4.95
64K	4K	2K	54	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y (8MHz)	16MHz	Y	—	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA645-16AU-ND▲ ***NEW!***	8.38	6.71	5.66
													Ind.	64-MLF	ATMEGA645-16MU-ND▲ ***NEW!***	8.48	6.79	5.73
64K	4K	2K	54	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y (8MHz)	8MHz	Y	—	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA645V-8AU-ND▲ ***NEW!***	8.38	6.71	5.66
													Ind.	64-MLF	ATMEGA645V-8MU-ND▲ ***NEW!***	8.48	6.79	5.73
64K	4K	2K	54	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y (8MHz)	16MHz	Y	—	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA649-16AU-ND▲ ***NEW!***	8.51	7.67	6.80
													Ind.	64-MLF	ATMEGA649-16MU-ND▲ ***NEW!***	8.60	7.74	6.87
64K	4K	2K	54	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y (8MHz)	8MHz	Y	—	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA649V-8AU-ND▲ ***NEW!***	8.51	7.67	6.80
													Ind.	64-MLF	ATMEGA649V-8MU-ND▲ ***NEW!***	8.60	7.74	6.87
64K	4K	2K	2/1	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y(8MHz)	8MHz	Y	—	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA6450V-8AU-ND▲ ***NEW!***	9.64	7.72	6.51
64K	4K	2K	69	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y(8MHz)	16MHz	Y	—	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA6450-16AU-ND ▲ ***NEW!***	9.64	7.72	6.51
64K	4K	2K	69	2/1	1 (USART), SPI, TWI	4	8-ch/ 10-bit	Y(8MHz)	16MHz	Y	—	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA6490-16AU-ND▲ ***NEW!***	9.76	8.79	7.80
													Ind.	100-TQFP	ATMEGA6490V-8AU-ND▲ ***NEW!***	9.76	8.79	7.80
128K	4K	4K	53	2/2	2 (USART), SPI, TWI	8	8-ch/ 10-bit	Y (8MHz)	16MHz	Y	JTAG	2.7 ~ 5.5V	Com.	64-TQFP	ATMEGA128-16AC-ND	15.05	9.45	8.75
													Ind.	64-TQFP	ATMEGA128-16AI-ND	15.05	9.45	8.75
													Com.	64-MLF	ATMEGA128-16MC-ND	15.16	9.52	8.81
													Ind.	64-MLF	ATMEGA128-16MI-ND	15.16	9.52	8.81
128K	4K	4K	53	2/2	2 (USART), SPI, TWI	8	8-ch/ 10-bit	Y (8MHz)	8MHz	Y	JTAG	2.7 ~ 5.5V	Com.	64-TQFP	ATMEGA128L-8AC-ND	15.05	9.45	8.75
													Com.	64-MLF	ATMEGA128L-8MC-ND	15.16	9.52	8.81
													Ind.	64-MLF	ATMEGA128L-8MI-ND	15.16	9.52	8.81
													Ind.	64-TQFP	ATMEGA128-16AU-ND▲ ***NEW!***	15.05	9.45	8.75
													Ind.	64-MLF	ATMEGA128-16MU-ND▲ ***NEW!***	15.16	9.52	8.81
													Ind.	64-TQFP	ATMEGA128L-8AU-ND▲ ***NEW!***	15.05	9.45	8.75
													Ind.	64-MLF	ATMEGA128L-8MU-ND▲ ***NEW!***	15.16	9.52	8.81
128K	4K	4K	53	2/2	2 (USART), SPI, TWI	8	8-ch/ 10-bit	Y (8MHz)	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	AT90CAN128-16AI-ND	16.77	10.53	9.75
													Ind.	64-QFN	AT90CAN128-16MI-ND	16.88	10.60	9.81
128K	8K	4K	54	2/4	2 (USART), SPI, TWI	8	8-ch/ 10-bit	Y (8MHz)	16MHz	Y	JTAG	2.7 ~ 5.5V	Ind.	64-TQFP	AT90USB1287-16AU-ND▲ ***NEW!***	14.23	10.69	9.81
													Ind.	64-QFN	AT90USB1287-16MU-ND▲ ***NEW!***	14.23	10.69	9.81
													Ind.	64-QFN	AT90USB1286-16MU-ND▲ ***NEW!***	13.30	9.99	9.17
256K	8K	4K	86	2/4	4 (USART), SPI, TWI	12	16-ch/ 10-bit	Y	8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	100-TQFP	ATMEGA2560V-8AU-ND▲ ***NEW!***	17.97	11.29	10.45
									16MHz	Y		4.5 ~ 5.5V	Ind.	100-TQFP	ATMEGA2560-16AU-ND▲ ***NEW!***	17.97	11.29	10.45
256K	8K	4K	51	2/4	2 (USART), SPI, TWI	6	16-ch/ 10-bit	Y	8MHz	Y	JTAG	1.8 ~ 5.5V	Ind.	64-TQFP	ATMEGA2561V-8AI-ND	16.99	10.66	9.88
													Ind.	64-TQFP	ATMEGA2561V-8AU-ND▲ ***NEW!***	16.99	10.67	9.88
													Ind.	64-QFN	ATMEGA2561V-8MU-ND▲ ***NEW!***	17.09	10.73	9.94
256K	8K	4K	51	2/4	2 (USART), SPI, TWI	6/12	16-ch/ 10-bit	Y	16MHz	Y	JTAG	4.5 ~ 5.5V	Ind.	64-TQFP	ATMEGA2561-16AU-ND▲ ***NEW!***	16.99	10.67	9.88
													Ind.	64-QFN	ATMEGA2561-16MU-ND▲ ***NEW!***	17.09	10.73	9.94

† Com. = Commercial Temperature Range: 0°C ~ 70°C (32°F ~ 158°F); Ind. = Industrial Temperature Range: -40°C ~ 85°C (-40°F ~ 185°F) *A/D 8-ch/10-bit ▲ ***RoHS Compliant***

Microcontrollers

Operating Temperature: Industrial: -40°C ~ 85°C Commercial: 0°C ~ 70°C

8051 Microcontroller

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temp.	Pkg.	Part No.	1	25	100
4K	128	—	32	—	—	—	—	-/2	—	24	4.0 ~ 6.0	Ind.	44-TQFP	AT87F51-24AI-ND	3.42	2.81	2.51
8K	256	—	32	1	—	—	—	-/3	—	24	4.0 ~ 6.0	Ind.	44-TQFP	AT87F52-24AI-ND	3.72	3.03	2.72
16K	—	—	14	1 (EUART)	—	—	Yes	-/2	—	16	2.85 ~ 5.5	Ind.	24-SSOP	AT83C21GC144ICSIL-ND	8.60	6.35	5.60
											3.6 ~ 5.5		64-VQFP	AT83C22OK103RDTIM-ND	12.04	8.89	7.84
											3.6 ~ 5.5		32-VQFP	AT83C23OK101RATIM-ND	10.75	7.94	7.00
											2.85 ~ 5.5		28-QFN	AT83C24-PRTIL-ND	3.23	2.38	2.10
											2.85 ~ 5.58		28-SOIC	AT3C24-TISIL-ND	3.23	2.38	2.10
											3.6 ~ 5.5		64-VQFP	AT83C25OK100RDTIM-ND	13.78	10.17	8.97
20K	256	—	32	1	—	—	Yes	-/2	—	24	4.0 ~ 5.5	Ind.	44-TQFP	AT87F55WD-24PI-ND	7.83	5.99	5.44
													44-PLCC	AT87F55WD-24JI-ND	7.83	5.99	5.44
													40-DIP	AT87F55WD-24AI-ND	8.04	6.14	5.58

CAN

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	CAN	WDT	16-Bits	A/D	MHz	(V)	Temp.	Pkg.	Part No.	1	25	100
16K	256	2K	20	1	—	2.0	Yes	-/3	8-ch/ 10-bit	40	3.0 ~ 5.0	Ind.	28-PLCC	T89C51CC02CASISIM-ND	9.55	6.66	5.86
													28-SOIC	T89C51CC02CATISIM-ND	9.55	6.66	5.86
													32-VQFP	T89C51CC02CARATIM-ND	9.55	6.66	5.86
													32-VQFP	T89C51CC02UARATIM-ND	9.55	6.66	5.86
16K	256	2K	20	1	—	2.0 A & B	Yes	-/3	8-ch/ 10 bit	40	3.0 ~ 5.0	Ind.	28-PLCC	T89C51CC02UASISIM-ND	9.55	6.66	5.86
													28-SOIC	T89C51CC02UATISIM-ND	9.55	6.66	5.86
16K	256	2K	20	1	—	A & B	Yes	-/3	10-bit	40	3.0 ~ 5.5	Ind.	28-PLCC	T89C51CC02UASITIM-ND	9.25	7.74	6.45
													64-BGA	T89C51CC01CA7CTIM-ND	10.06	7.02	6.18
													64-BGA	T89C51CC01UA7CTIM-ND	10.06	7.02	6.18
32K	256	2K	34	1	—	2.0 A & B	Yes	-/3	8-ch/ 10-bit	40	3.0 ~ 5.5	Ind.	44-VQFP	T89C51CC01CARLTIM-ND	10.06	7.02	6.18
													44-PLCC	T89C51CC01CASLSIM-ND	10.06	7.02	6.18
													44-VQFP	T89C51CC01UARLTIM-ND	10.06	7.02	6.18
													44-PLCC	T89C51CC01UASLSIM-ND	10.06	7.02	6.18
64K	256	2K	36	1	Yes	2.0 A & B	Yes	-/3	8-ch/ 10-bit	40	3.0 ~ 5.5	Ind.	64-BGA	AT89C51CC03C7CTIM-ND	15.59	11.51	10.15
							Yes						64-VQFP	AT89C51CC03CRDTIM-ND	11.61	8.10	7.13
							No						44-VQFP	AT89C51CC03CRLTIM-ND	11.61	8.10	7.13
							Yes						52-PLCC	AT89C51CC03CS3SIM-ND	11.61	8.10	7.13
							No						44-PLCC	AT89C51CC03CSLSIM-ND	11.61	8.10	7.13
64K	256	2K	36	1	Yes	2.0 A & B	Yes	-/3	8-ch/ 10-bit	40	3.0 ~ 5.5	Ind.	64-BGA	AT89C51CC03U7CTIM-ND	15.59	11.51	10.15
							Yes						64-VQFP	AT89C51CC03URDTIM-ND	11.61	8.10	7.13
							Yes						52-PLCC	AT89C51CC03US3SIM-ND	11.61	8.10	7.13
							No						44-PLCC	AT89C51CC03USLSIM-ND	11.61	8.10	7.13
64K	256	2K	36	1	Yes	2.0 A & B	No	-/3	8-ch/ 10-bit	40	3.0 ~ 5.5	Ind.	44-PLCC	AT89C51CC03CSLRCT-ND†	14.45	12.10	10.08
							No						44-VQFP	AT89C51CC03CRLRCT-ND†	14.77	12.37	10.31
							Yes						52-PLCC	AT89C51CC03CS3RCT-ND†	14.66	12.28	10.23
							Yes						64-VQFP	AT89C51CC03CRDRCT-ND†	14.99	12.55	10.46
4K	256	2K	36	1	Yes	2.0 A & B	No	-/3	8-ch/ 10-bit	40	3.0 ~ 5.5	Ind	44-VQFP	AT89C51CC03URLRCT-ND†	14.77	12.37	10.31
							Yes						64-VQFP	AT89C51CC03URDRCT-ND†	14.99	12.55	10.46
							Yes						52-PLCC	AT89C51CC03US3RCT-ND†	14.66	12.28	10.23
							No						44-PLCC	AT89C51CC03USLRCT-ND†	14.45	12.10	10.08

† Cut Tape Price Each

MP3

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temp.	Pkg.	Part No.	1	25	100
64K	2304	—	44	1	Master/ Slave	1	Yes	-/2	2-ch/ 8-bit	40	3.0	Ind.	80-TQFP	AT89C51SND1CROTIL-ND	15.48	10.80	9.50
		—								40	3.0	Ind.	80-TQFP	AT89C51SND1C-ROTUL-ND▲ ***NEW!***	12.00	10.80	9.58
		4K								20	3.2 ~ 5.5	Ind.	100-BGA	AT89C51SND2C7FTIL-ND	21.60	13.65	12.10

▲ ***RoHS Compliant***

Lighting

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temp.	Pkg.	Part No.	1	25	100
4K	256	256	2	—	—	—	Yes	-/2	6-ch/ 10-bit	24	3.0 ~ 3.6	Ind.	20-SOIC	AT89EB5114-TGSIL-ND	8.55	5.82	4.96

Smart Card

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temp.	Pkg.	Part No.	1	25	100
32K	32K	—	45	1	Master/ Slave	—	Yes	-/2	—	16	3.6 ~ 5.5	Ind.	64-VQFP	AT85C5122D-RDTIM-ND	9.89	7.30	6.44
			45										64-VQFP	AT89C5122D-RDTUM-ND▲ ***NEW!***	9.20	8.28	7.35
			13										28-PLCC	AT85C5122D-SISIM-ND▲ ***NEW!***	9.40	6.94	6.12
			13										64-QFN	AT89C5122D-PSTUM-ND▲ ***NEW!***	9.20	8.28	7.35
16K	16K	—	14	1 EUART	—	—	Yes	-/2	—	16	2.85 ~ 5.4	Ind.	24-SSOP	T85C5121-ICSIL-ND	7.74	5.71	5.04
			27										52-PLCC	T85C5121-S3SIL-ND	8.86	6.54	5.77
16K	16K	16K	14	1 EUART	—	—	Yes	-/2	—	16	2.85 ~ 5.4	Ind.	24-SSOP	T89C5121-ICUIL-ND	8.77	6.12	5.39
32K	32K	—	45	1	Master/ Slave	—	Yes	-/2	—	16	3.6 ~ 5.5	Ind·	64-VQFP	AT89C5122DRDRIMCT-ND†	12.36	10.35	8.63

▲ ***RoHS Compliant*** † Cut Tape Price Each

(Continued)

Operating Temperature: Industrial: -40°C ~ 85°C Commercial: 0°C ~ 70°C

USB

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temp.	Package	Part No.	1	25	100
32K	32K	—	34	1	Master/ Slave	—	Yes	-/2	—	16	3.6 ~ 5.5	Ind.	32-QFN	AT89C5130A-PUTUM-ND	7.10	4.83	4.12
													64-VQFP	AT89C5130A-RDTUM-ND▲ ***NEW!***	7.63	5.19	4.43
													52-PLCC	AT89C5130A-S3SIM-ND	8.75	5.95	5.08
32K	1024	4K	34	1 (EUART)	Master/ Slave	—	Yes	-/3	—	32	3.0 ~ 3.6	Ind.	48-QFN	AT89C5131A-PLTIL-ND	10.54	7.78	6.86
													64-VQFP	AT89C5131A-RDTIL-ND	8.17	5.70	5.02
													32-QFN	AT89C5131A-PUTUM-ND▲ ***NEW!***	7.40	5.92	5.00
32K	256	4K	34	1	Master/ Slave	—	Yes	-/3	—	24	2.7 ~ 5.5	Ind.	64-VQFP	AT89C5131A-RDTIM-ND	9.50	5.70	5.02
													52-PLCC	AT89C5131A-S3SIL-ND	10.30	6.18	5.44
													52-PLCC	AT89C5131A-S3SIM-ND	10.30	6.18	5.44
													52-PLCC	AT89C5131A-S3SUM-ND▲ ***NEW!***	7.40	5.92	5.00
													28-SOIC	AT89C5131A-TISIL-ND	10.11	7.05	6.20
64K	2304	—	44	1	Master/ Slave	—	Yes	-/2	8-bit	20	3.0	Ind.	80-TQFP	AT89C5132-ROTUL-ND▲ ***NEW!***	10.40	9.36	8.30

▲ ***RoHS Compliant***

Single Cycle Core

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temp.	Package	Part No.	1	25	100
2K	256	—	—	15	1 (EUART)	—	Yes	-/2	—	20	2.4 ~ 5.5	Ind.	20-DIP	AT89LP2052-16PI-ND	2.20	1.50	1.28
													20-DIP	AT89LP2052-16PU-ND▲ ***NEW!***	2.54	1.54	1.33
													20-SOIC	AT89LP2052-16SI-ND	2.20	1.50	1.28
													20-SOIC	AT89LP2052-16SU-ND▲ ***NEW!***	2.54	1.54	1.33
													20-TSSOP	AT89LP2052-16XU-ND▲ ***NEW!***	2.54	1.54	1.33
4K	256	—	—	15	1 (EUART)	—	Yes	-/2	—	20	2.4 ~ 5.5	Ind.	20-DIP	AT89LP4052-16PI-ND	2.80	1.91	1.63
													20-DIP	AT89LP4052-16PU-ND▲ ***NEW!***	2.80	1.79	1.61
													20-SOIC	AT89LP4052-16SI-ND	2.80	1.91	1.63
													20-SOIC	AT89LP4052-16SU-ND▲ ***NEW!***	2.80	1.79	1.61
													20-TSSOP	AT89LP4052-16XI-ND	2.80	1.91	1.63
													20-TSSOP	AT89LP4052-16XU-ND▲ ***NEW!***	2.80	1.79	1.61

▲ ***RoHS Compliant***

General Purpose

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter		Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temp.	Pkg.	Part No.	1	25	100
2K	128	—	—	15	1	—	—	-/2	1	24	4.0 ~ 6.0	Com.	20-Dip	AT89C2051-24PC-ND	1.66	1.23	1.10
												Ind.	20-Dip	AT89C2051-24PI-ND	1.66	1.23	1.10
												Com.	20-SOIC	AT89C2051-24SC-ND	1.66	1.23	1.10
												Ind.	20-SOIC	AT89C2051-24SI-ND	1.66	1.23	1.10
4K	128	—	—	15	1	—	—	-/2	1	24	4.0 ~ 6.0	Com.	20-Dip	AT89C4051-24PC-ND	1.89	1.40	1.25
												Ind.	20-Dip	AT89C4051-24PI-ND	1.89	1.40	1.25
												Com.	20-SOIC	AT89C4051-24SC-ND	1.89	1.40	1.10
												Ind.	20-SOIC	AT89C4051-24SI-ND	1.89	1.40	1.25
4K	128	—	—	32	1	—	—	-/2	—	24	4.0 ~ 6.0	Ind.	44-TQFP	AT89C51-24AI-ND	5.27	4.17	3.76
										33				AT89C51-33AI-ND	2.47	1.83	1.63
4K	128	—	—	32	1	—	Yes	-/2	1	16	2.7 ~ 6.0	Ind.	44-TQFP	AT89LS51-16AI-ND	2.26	1.67	1.49
													44-PLCC	AT89LS51-16JI-ND	2.26	1.67	1.49
													40-DIP	AT89LS51-16PI-ND	2.26	1.67	1.49
4K	128	—	—	32	1	—	Yes	-/2	1	24	4.0 ~ 5.5	Ind.	44-TQFP	AT89S51-24AI-ND	1.89	1.40	1.25
												Ind.	44-PLCC	AT89S51-24JI-ND	1.89	1.40	1.25
												Com.	40-DIP	AT89S51-24PC-ND	1.89	1.40	1.25
												Ind.	40-DIP	AT89S51-24PI-ND	1.89	1.40	1.25
8K	256	—	—	32	1	—	Yes	-/3	1	24	4.0 ~ 5.5	Ind.	44-TQFP	AT89LS52-16AI-ND	2.47	1.83	1.63
													44-TQFP	T89S52-24AI-ND	2.01	1.49	1.33
													44-PLCC	AT89S52-24JI-ND	2.01	1.49	1.33
													40-Dip	AT89S52-24PU-ND▲ ***NEW!***	2.48	1.98	1.54
8K	256	—	—	32	1	—	Yes	-/3	1	33	4.5 ~ 5.5	Ind.	44-TQFP	AT89S52-33AI-ND	2.01	1.27	1.18
												Com.	40-DIP	AT89S52-33PC-ND	2.01	1.27	1.18
												Ind.	40-DIP	AT89S52-33PI-ND	2.01	1.27	1.18
12K	256	2K	—	32	1 (EUART)	—	Yes	-/3	—	24	2.7 ~ 5.5	Ind.	44-TQFP	AT89S8253-24AU-ND▲ ***NEW!***	4.95	3.66	3.27
													44-PLCC	AT89S8253-24PC-ND	5.75	3.91	3.34
													44-PLCC	AT89S8253-24JU-ND▲ ***NEW!***	4.95	3.66	3.27
													40-Dip	AT89S8253-24PU-ND▲ ***NEW!***	4.95	3.66	3.27
16K	256	2K	—	20	1	—	Yes	-/3	8-ch/ 10-bit	40	3.0 ~ 5.5	Ind.	32-VQFP	T89C5115-RATIM-ND	6.84	4.77	4.20
													32-VQFP	AT89C5115-RATUM-ND▲ ***NEW!***	8.40	6.72	5.67
													28-PLCC	T89C5115-SISIM-ND	7.80	5.45	4.79
													28-PLCC	AT89C5115-SISUM-ND▲ ***NEW!***	8.40	6.72	5.67
													28-SOIC	T89C5115-TISUM-ND	8.17	6.03	5.32
													28-SOIC	AT89C5115-TISUM-ND▲ ***NEW!***	8.40	6.72	5.67
16K	1024	—	—	32	1	Master/ Slave	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	40-Dip	AT89C51RB2-3CSIM-ND	7.22	5.04	4.44
													44-VQFP	AT89C51RB2-RLTIL-ND	7.22	5.04	4.44
													44-VQFP	AT89C51RB2-RLTUL-ND▲ ***NEW!***	8.74	7.00	5.90
													44-VQFP	AT89C51RB2-RLTIM-ND	7.22	5.04	4.44
													44-VQFP	AT89C51RB2-RLTUM-ND▲ ***NEW!***	6.72	5.38	4.54
													44-PLCC	AT89C51RB2-SLSIL-ND	7.22	5.04	4.44

† Cut Tape Price Each ▲ ***RoHS Compliant***

(Continued)

Microcontrollers *(Cont.)*

General Purpose *(Cont.)*

Memory Size (Bytes)			I/O	Serial Communication				Timer Counter	10 Bit	Clock Speed	VCC	Operating		Digi-Key	Price Each		
Program	Ram	EEprom	Pins	UART	SPI	TWI	WDT	16-Bits	A/D	MHz	(V)	Temp.	Pkg.	Part No.	1	25	100
16K	1024	—	32	1	Master/ Slave		Yes	-/3	—	40	2.7 ~ 5.5	Ind.	44-PLCC	AT89C51RB2-SLSUL-ND▲ ***NEW!***	6.72	5.38	4.54
													44-PLCC	AT89C51RB2-SLSIM-ND	7.22	5.04	4.44
													44-PLCC	AT89C51RB2-SLSUM-ND▲ ***NEW!***	6.72	5.38	4.54
16K	1024	—	32	1	Master/ Slave	—	Yes	-/3	—	60	2.7 ~ 5.5	Ind.	44-VQFP	AT89C51RB2RLRIMCT-ND†	7.63	6.39	5.33
													44-VQFP	AT89C51RB2RLRILCT-ND†	8.40	7.03	5.86
													44-PLCC	AT89C51RB2SLRIMCT-ND†	7.31	6.12	5.10
16K	256	—	32	1 (EUART)	Master/ Slave	—	Yes	-/3	—	48	2.7 ~ 5.5	Ind.	44-VQFP	T89C51RB2-RLTIM-ND	7.46	6.25	5.21
													44-PLCC	T89C51RB2-SLSIM-ND	7.20	6.03	5.03
20K	256	—	32	1	—	—	—	-/3	—	24	4.0 ~ 5.5	Ind.	44-TQFP	AT89C55WD-24AI-ND	3.67	2.99	2.43
										33	4.0 ~ 6.0	Ind.	44-PLCC	AT89C55WD-33JI-ND	3.67	2.71	2.43
										33	4.0 ~ 6.0	Ind.	44-DIP	AT89C55WD-33PI-ND	3.67	2.71	2.43
20K	256	—	32	1	—	—	Yes	-/3	—	12	2.7 ~ 6.0	Com.	44-TQFP	AT89LV55-12AC-ND	4.09	3.02	2.70
												Ind.	44-TQFP	AT89LV55-12AI-ND	4.09	3.02	2.70
												Com.	44-PLCC	AT89LV55-12JC-ND	4.09	3.02	2.70
												Ind.	44-PLCC	AT89LV55-12JI-ND	4.09	3.02	2.70
												Com.	40-DIP	AT89LV55-12PC-ND	4.09	3.02	2.70
												Ind.	40-DIP	AT89LV55-12PI-ND	4.09	3.02	2.70
32K	512	—	32	1	—	—	Yes	-/3	—	33	4.0 ~ 6.0	Com.	44-TQFP	AT89C51RC-33AC-ND	4.14	3.06	2.74
													44-PLCC	AT89C51RC-33JC-ND	4.14	3.06	2.74
													40-DIP	AT89C51RC-33PC-ND	4.14	3.06	2.74
32K	1024	—	32	1	Master/ Slave	—	—	-/3	—	40	2.7 ~ 3.5	Com.	44-VQFP	AT89C51IC2-RLTIL-ND	8.77	6.12	5.39
											2.7 ~ 3.5	Com.	44-VQFP	AT89C51IC2-RLTUL-ND▲ ***NEW!***	8.16	6.53	5.51
											2.7 ~ 5.5	Ind.	44-VQFP	AT89C51IC2-RLTIM-ND	8.77	6.12	5.39
											2.7 ~ 5.5	Ind.	44-VQFP	AT89C51IC2-RLTUM-ND▲ ***NEW!***	8.16	6.53	5.51
											2.7 ~ 3.6	Com.	44-PLCC	AT89C51IC2-SLSIL-ND	8.77	6.12	1.10
											2.7 ~ 3.6	Com.	44-PLCC	AT89C51IC2-SLSUL-ND▲ ***NEW!***	8.16	6.53	5.51
											2.7 ~ 5.5	Ind.	44-PLCC	AT89C51IC2-SLSIM-ND	8.77	6.12	5.39
											2.7 ~ 5.5	Ind.	44-PLCC	AT89C51IC2-SLSUM-ND▲ ***NEW!***	8.16	6.53	5.39
											2.7 ~ 5.5	Ind.	44-PLCC	AT89C51IC2SLRIMCT-ND†	9.35	7.83	6.53
											2.7 ~ 3.5	Ind.	44-PLCC	AT89C51IC2SLRILCT-ND†	10.29	8.62	7.18
											2.7 ~ 5.5	Ind.	44-VQFP	AT89C51IC2RLRIMCT-ND†	9.57	8.01	6.68
											2.7 ~ 3.5		44-VQFP	AT89C51IC2RLRILCT-ND†	10.52	8.82	7.35
											2.7 ~ 5.5		40-DIP	AT89C51RC2-3CSUM-ND▲ ***NEW!***	7.20	5.76	4.86
32K	1024	—	32	1	Master/ Slave	—	Yes	-/3	—	48	2.7 ~ 3.6	Ind.	44-VQFP	AT89C51RC2-RLTIL-ND	7.74	5.40	4.75
											2.7 ~ 3.6		44-VQFP	AT89C51RC2-RLTUL-ND▲ ***NEW!***	7.20	5.76	4.86
											2.7 ~ 5.5		44-VQFP	AT89C51RC2-RLTIM-ND	7.74	5.40	4.75
											2.7 ~ 5.5		44-VQFP	AT89C51RC2-RLTUM-ND▲ ***NEW!***	7.20	5.76	4.86
											2.7 ~ 3.6		44-PLC C	AT89C51RC2-SLSIL-ND	7.74	5.40	4.75
											2.7 ~ 3.6	Ind.	44-PLCC	AT89C51RC2-SLSUL-ND▲ ***NEW!***	7.20	5.76	4.86
											2.7 ~ 3.6		44-PLCC	AT89C51RC2-SLSIM-ND	7.74	5.40	4.75
32K	1024	—	32	1	Master/ Slave	—	Yes	-/3	—	48	2.7 ~ 3.3	Ind.	44-PLCC	AT89C51RC2SLRIMCT-ND†	8.60	7.20	6.00
													44-VQFP	AT89C51RC2RLRILCT-ND†	9.81	8.22	6.85
													44-PLCC	AT89C51RC2SLRILCT-ND†	9.46	7.92	6.60
													44-VQFP	AT89C51RC2RLRIMCT-ND†	8.92	7.47	6.23
32K	256	2	34	1	—	—	Yes	-/3	—	40	3.0 ~ 5.5	Ind.	44-VQFP	T89C51AC2-RLTIM-ND	9.72	7.17	6.33
													44-PLCC	T89C51AC2-SLSIM-ND	8.90	6.21	5.46
													44-VQFP	AT89C51AC2-RLTUM-ND▲ ***NEW!***	8.28	6.63	5.59
64K	256	2048	32	1	Master/ Slave	—	Yes	-/3	8-ch/ 10 bit	40	2.7 ~ 5.5	Ind	44-VQFP	AT89C51ID2-RLTUM-ND▲ ***NEW!***	9.00	8.10	7.19
													44-PLCC	AT89C51ID2-SLSIM-ND	11.61	8.10	7.13
													44-PLCC	AT89C51ID2-SLSUM-ND▲ ***NEW!***	9.00	8.10	7.19
64K	256	2048	32	1	Master/ Slave	—	Yes	-3	—	40	2.7 ~ 5.5	Ind	44-VQFP	AT89C51ID2RLRIMCT-ND†	11.29	9.45	7.88
													44-PLCC	AT8951ID2SLRIMCT-ND†	11.29	9.45	7.88
64K	1792	2048	34	1	Master/ Slave	—	Yes	-3	—	40	2.7 ~ 5.5	Ind	44-VQFP	AT89C51RD2-RLTIM-ND	8.39	5.85	5.15
													44-VQFP	AT89C51RD2-RLTUM-ND▲ ***NEW!***	7.80	6.24	5.27
													44-PLCC	AT89C51RD2-SLSUM-ND▲ ***NEW!***	7.80	6.24	5.27
													44-VQFP	AT89C51RD2RLRIMCT-ND†	8.39	7.02	5.15
													44-VQFP	AT89C51RD2-RLRUMCT-ND†	7.80	6.24	5.27
64K	1792	2048	34	1	Master/ Slave	—	Yes	-3	—	40	2.7 ~ 5.5	Ind	44-VQFP	AT89C51RD2-RLRUMTR-ND▲ ***NEW!***	7605.00/1500		
													44-PLCC	AT89C51RD2SLRIMCT-ND†	8.39	7.02	5.85
													44-PLCC	AT89C51RD2-SLRUMCT-ND†▲ ***NEW!***	7.80	6.24	5.27
													44-PLCC	AT89C51RD2-SLRUMTR-ND▲ ***NEW!***	2476.50/500		
64K	256	2K	32	1	—	—	Yes	-/3	8-ch/ 10 bit	20	3.0 ~ 5.5	Ind.	64-VQFP	AT89C51AC3-RDTIM-ND	12.08	7.25	6.38
													64-VQFP	AT89C51AC3-RDTUM-ND▲ ***NEW!***	9.66	7.73	6.53
													44-VQFP	AT89C51AC3-RLTIM-ND	12.08	7.25	6.38
													44-VQFP	AT89C51AC3-RLTUM-ND▲ ***NEW!***	9.66	7.73	6.53
													52-PLCC	AT89C51AC3-S3SIM-ND	12.08	7.25	6.38
													44-PLCC	AT89C51AC3-SLSUM-ND▲ ***NEW!***	9.66	7.73	6.53
64K	1792	2048	32	1	Master/ Slave	—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	40-DIP	AT89C51ED2-3CSUM-ND▲ ***NEW!***	8.50	7.65	6.79
													44-VQFP	AT89C51ED2-RLTIM-ND	10.97	7.65	6.73
													44-VQFP	AT89C51ED2-RLTUM-ND▲ ***NEW!***	8.50	7.65	6.79
													64-VQFP	AT89C51ED2-RDTUM-ND▲ ***NEW!***	9.16	8.25	7.32
													44-PLCC	AT89C51ED2-SLSIM-ND	10.97	7.65	6.73
													44-PLCC	AT89C51ED2-SLSUM-ND▲ ***NEW!***	8.50	7.65	6.79
64K	1792	2048	48	1	Master/ Slave	—	Yes	-/3	—	40	2.7 ~ 5.5	Ind.	68-PLCC	AT89C51ED2-SMSIM-ND	11.83	8.25	7.26
			48										68-PLCC	AT89C51ED2-SMSUM-ND▲ ***NEW!***	9.16	8.25	7.32
			48										64-VQFP	AT89C51ED2RDRIMCT-ND†	11.83	9.90	8.25
			48										68-PLCC	AT89C51ED2SMRIMCT-ND†	11.83	9.90	8.25
			32										44-PLCC	AT89C51ED2SLRIMCT-ND†	10.97	9.18	7.65
			32										44-VQFP	AT89C51ED2RLRIMCT-ND†	10.97	9.18	7.35
64K	256	2K	48	1 (EUART)	Master/ Slave	—	Yes	-/3	—	60	2.7 ~ 5.5	Ind.	68-PLCC	T89C51RD2-SMSIM-ND	11.18	9.36	7.80

† Cut Tape Price Each ▲ ***RoHS Compliant***

8051 Microcontroller Kits

AT89STK-06 Starter Kit and CANADAPT28 Adapter

The AT89STK-06 Starter Kit is dedicated to the T89C51CC01/CC02 and AT89C51CC03 CAN microcontrollers. The AT89STK-06 can also be used for AT89C51AC3, T89C51AC2 and T89C5115 (Flash microcontroller with ADC). For T89C51CC02 CAN and & T89C5115, optional adaptor is required: CANADAPT28. The board is designed to allow an easy evaluation of the product using demonstration software.

AT89STK-06-ND	Starter Kit	**$132.00**
CANADAPT28-ND	44 PLCC to 28 PLCC Adapter	**$66.50**

ATWEBEVK-01 Evaluation Kit

The @Web Evaluation Kit allows the user to evaluate the full range of options available in integrating TCP/IP software into Atmel C51 Flash MCUs. Once the user has completed the demo he will be able to Read and Write information to and from the Flash memory of the microcontroller through the Internet.

Moreover, the user will see how all of the information recorded on the microcontroller is available using standard PC tools such as a Web browser, Hyperterminal, and Dial-up Networking.

Kit Includes:

• Evaluation Board with T89C51AC2 Controller • External speaker • Serial RS-232 Null Modem Cable • 9V battery and cable • CD-ROM including documentation and software

ATWEBEVK-01-ND	**$249.00**

AT89C5131 MCU/USB Starter Kit

This starter kit is designed to help developers using AT89C5131 USB Flash microcontroller. The kit comprises an evaluation board, the In-System Programming Tool (FLIP), and a HID (Human Interface Device) keyboard demonstration program.

AT89STK-05-ND	Starter Kit for AT89C5131	**$132.00**

AT89ISP Programmer Cable

The Atmel Microcontroller ISP software is the primary means for performing in-system programming of Atmel AT89S devices. It provides an intuitive interface for in-system programming that can be run from a personal computer.

AT89ISP-ND	Programming Cable	**$25.00**

NEW! AT89STK-10 Quick Start

This kit includes an evaluation board dedicated to the AT89C5130/31A and AT8xC5122D microcontrollers, enabling you to run an applicaton based on the Mass Storage Package.

Kit Includes:

• Flash Evaluation Board • Nand Flash memory • DataFlash Card • USB products CD-ROM

AT89STK-10-ND	**$132.00**

Smart Card Starter Kit

The T8xC5121 Starter Kit includes a demonstration board (DemoB 1.2.0) allowing the evaluation of the T8xC5121 microcontrollers. Designers can either run the demonstration program or their own application. The demonstration board supports communication through RS-232 serial communication mode. The board can also be used as a programmer for the T89C5121 product.

T89C5121-SK1-ND	Smart Card Starter Kit	**$266.67**

NEW! AT89STK-08 Starter Kit

The AT89STK-08 Starter Kit is dedicated to the In-System Programmable Flash C51 microcontrollers 9AT89C51RB2/RC2/RD2/ED2 and AT89C5IKit) The board is designed to allow an easy evaluation of the product using demonstration software.

AT89STK-08-ND	**$132.00**

MP3 Player Reference and Demo Board

Atmel's solution for MP3 Player provides the best compromise between power consumption, cost and functionality. It consists of a fully-integrated standalone hard-wired MPEGI/II Layer-3 decoder with C51 microcontroller core handling dataflow control and MP3-player control.

Description:

AT89C51SND1 Development Kit includes a development board that has been designed to demonstrate the AT89C51SND1 capability to support the following features: • MP3 song playing • Voice recording/playing • MultiMedia Card with FAT16 • USB mass storage • USB firmware upgrade • Serial DataFlash Storage Memory • A free full-featured 30-day Jungo WinDriver evaluation CD

AT89RFD-02: The USB Smart Card Reader reference design allows to quickly read and write any kind of smart card through a USB link. It is based on a single-chip turnkey solution which combines the Atmel AT83C22OK/AT83C23OK microcontrollers and OMNIKEY Firmware (smart@key and smart@link).

AT89RFD-05: The Serial Smart Card Reader reference design allows to quickly read and write any kind of smart card through a serial link. It is based on a single-chip ready-to-use solution which combines Atmel AT83C21GC microcontroller with Gemplus GemCore® Serial Lite Pro Software.

AT89RFD-06: The PCMCIA Smart Card Reader reference design allows to quickly read and write any kind of smart card through a PCMCIA link. It is based on a single-chip turnkey solution which combines the Atmel AT83C25OK microcontroller and OMNIKEY smart@bus Firmware.

AT89RFD-01-ND	AT89C51SND1 Reference Design	**$212.00**
AT89DVK-04-ND	MP3 Player Demo Board	**$700.00**
AT89RFD-02-ND	AT83C22OK/23OK Reference Design	**$250.00**
AT89RFD-05-ND	AT83C21GC Reference Design	**$250.00**
AT89RFD-06-ND	PCMCIA Reader Reference Design	**$250.00**
AT89RFD-08-ND ***NEW!***	MP3 Remote Reference Design	**$393.00**

89C51SND1 Emulator

The AT89EMK-01 Development System for Atmel 89C51SND1 Microcontrollers derivatives with 6/12 clocks/cycle is very effective in meeting the diverse demands of emulation operations.

Features:

• Emulates 89C51SND1 Derivatives with 6/12 Clocks/Cycle • 62K Code Memory • Real-Time Emulation • Frequency up to 20MHz/3V • ISP and X2 Mode Support • MS-Windows Debugger for C and Assembler • Keil µVision2 Debugger Compatible • QFP and PLCC Emulation Headers • ISP Programmer Included • Serially Linked to PC at 115Kbaud

AT89EMK-01-ND	Emulator for MP3 SND1 MCU	**$1531.01**

AT8xC5122/23 Starter Kit

The Evaluation Board included in AT89STK-03 Starter Kit dedicated to the Part Number Smart Card Reader microcontrollers. This board is designed to allow an easy evaluation of the product using demonstration software.

Features:

The AT89STK-03-ND Evaluation Board provides the following features: • Possibility to choose between three packages: PLCC 68-pin package, VQFP 64-pin package, PLCC 28-pin package • On-board power supply circuitry with low drop regulator: From an external power connector, an external battery, and the USB line via the USB on-board connector • ISO7816 connector for Smart Card

AT89STK-03-ND	Starter Kit for MCU AT8XC5122/23	**$250.00**

NEW! AT89STK-09 Evaluation Board

The AT89STK09 is a starter kit for the AT83C26 device. The AT83C26 is a smart card reader interface with 2 DC/DC converters allowing to manage up to 5 smart cards including level shifters. This device needs TWI commands to configure its registers. This device requires a host microcontroller with one or two ISO7816 Smart Card Interfaces.

Features:

• AT89STK09 board with 2 ISO7816-3 connectors and 4 SIM/SAM connectors • 2 Gemplus GemClub Smart cards • Smart Card Reader IC CD-ROM • 2 VQFP48 and 2 QFN48 samples • AT89STK09 user guide document

AT89STK-09-ND .	**$80.00**

@Web Hardwired TCP/IP Ethernet Solutions

@Web LAN51H Development Kit

The @Web LAN51H Development Kit is designed for testing high-speed Internet connectivity with Atmel 80C51 Flash MCU and the WIZnet i2Chip, a unique hardwired embedded Ethernet TCP/IP chip. The customer can change functions and reload firmware using In-System Programming capability. Error messages can be displayed on the LCD screen, allowing easy debug of user's application. After evaluation, the drop-in network module (IIM7010) supplied in the kit can be re-used.

ATWEBDVK-02-ND	**$269.00**

Gateway Modules

ATWEBSEG-32-ND	RS232 to Ethernet Gateway Module	**$35.00**
ATWEBEVK-05-ND	RS232 to Ethernet Evaluation Board	**$189.00**
ATWEBCEG-32-ND	Can to Ethernet Gateway Module	**$39.90**
ATWEBEVK-06-ND	Can to Ethernet Evaluation Board	**$249.00**

@Web LAN51H Modules

Atmel provides @Web LAN51H Development Kits with additional modules directly connected to the @Web LAN51H development board. These additional modules can run the functions of either a Remote Power On-off Control, or Voice Transmission (VoIP), or Network Web Camera.

Remote Controller Features:
• On-off Control Function Using Web Server • LED On-off Control and Text LCD Display Using Web Browser 3 x 110V - 220V Relay Switches

Voice Transmission (VoIP) Features:
• Full-duplex Voice Transmission through Internet • Supports G723.1 Standard True Speech Voice Codec • Normal Microphone Input and Speaker Output • Audio DAC (MC745483) and DSP (CT8022A) • Included Loudspeaker Connector

Network WebCam Features:
• Four-channel Cmos Web Camera with Standard JPEG Coding • Video Coding: Hardware MFPEG Codec (LC82210 from Sanyo) • Video Mode: VGA, CIF, QCIF • CMOS Sensor: 1/3" Color CMOS Image Sensor (OV7620 from OmniVision), Maximum Frame Rate: 3fps with Standard C51

ATWEBDVK-02RC-ND	LAN51H and Remote Controller Kit	**$379.00**
ATWEBDVK-02VOIP-ND	LAN51H and Voice Transmission Kit	**$629.00**
ATWEBDVK-02WC-ND	LAN51H and Network WebCam Kit	**$899.00**

Digi Connect® SP/Wi-SP Family

The Digi Connect SP device server delivers a powerful, compact and cost-effective off-the-shelf hardware platform for embedded networking solutions. The device server is the ideal platform for your custom web- and network- enabled embedded applications. Combining Digi and NetSilicon® technology, it eliminates the hardware design effort and delivers a true device networking solution that is powerful enough to meet your future performance requirements

Features: • 32-bit NET+ARM high-performance RISC processor (NS7520 55 MHz) • 4 MB Flash and 16 MB RAM integrated • Switch-selectable RS-232/422/485 interface (DB-9M): Throughput up to 230,400 bps; 7, 8 data bits; 1, 1.5, 2 stop bits; Mark/space/even/odd parity; Full signal support with software/hardware flow control • Auto-sensing 10/100 Mbit Ethernet interface and network link

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Digi-Connect SP			
Device Server Adapter	602-1035-ND	189.00	DC-SP-01-C
Adapter Development Kit	602-1013-ND	1495.00	DC-SP-01-GN
Adapter Development Kit (No Raven Debugger)	602-1014-ND	895.00	DC-SP-01-GN-NR
Adapter Customizable model with JTAG interface	602-1015-ND	249.00	DC-SP-01-JT

The Digi Connect Wi-SP is built on leading NetSilicon® 32-bit NET+ARM technology, this wireless device server delivers a true plug-and play device networking solution that combines the benefit of secure wireless networking technology with proven serial port connectivity. It is the ideal choice in retail, warehouse, healthcare and medical applications, allowing you to respond immediately to the ever-changing requirements and challenges.

Features: • 32-bit NET+ARM high-performance RISC processor (NS7520 55 MHz) • 4 MB Flash and 16 MB RAM integrated • Switch-selectable RS-232/422/485 interface (DB-9M): Throughput up to 230,400 bps; 7, 8 data bits; 1, 1.5, 2 stop bits; None/even/odd parity; Full signal support with software/hardware flow control • 802.11b wireless LAN interface; Infrastructure (BSS) and Ad-Hoc Mode (IBSS) • Flexible 9-30VDC power supply

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Digi-Connect Wi-SP			
2.4 GHz Wireless Device Server Adapter	602-1032-ND	369.00	DC-WSP-01-S
Adapter Development Kit	602-1016-ND	1495.00	DC-WSP-01-GN
Adapter Development Kit (No Raven Debugger)	602-1017-ND	895.00	DC-WSP-01-GN-NR

Digi Connect® ME/Wi-ME Family

The industry's first interchangeable secure wired and wireless embedded modules with plug-and-play functionality and comprehensive development tools make it easy to add embedded web-enabled wired and wireless network connectivity. The ME family enables original equipment manufactures to keep pace with ever-evolving networking technology by delivering complete and versatile embedded network connectivity solutions. Built on leading NetSilicon® 32-bit NET+ARM technology, the Digi Connect ME embedded modules also provide a seamless migration path to a fully integrated system on-chip solution.

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Digi-Connect ME			
8 MB SDRAM, 2 MB Flash, Std. Firmware	602-1053-ND	49.00	DC-ME-01T-S
8 MB SDRAM, 2 MB Flash, Std. Firmware, 10-pc.	602-1029-ND	450.00	DC-ME-01T-S-10
8 MB SDRAM, 2 MB Flash, Customizable	602-1054-ND	49.00	DC-ME-01T-C
8 MB SDRAM, 2 MB Flash, Customizable, 10-pc.	602-1030-ND	450.00	DC-ME-01T-C-10
8 MB SDRAM, 4 MB Flash, Customizable	602-1055-ND	55.00	DC-ME4-01T-C
8 MB SDRAM, 4 MB Flash, Customizable, 10-pc.	602-1031-ND	500.00	DC-ME4-01T-C-10
Integration Kit (for use with "S" models)	602-1057-ND	249.00	DC-ME-01T-KT
Development Kit (for use with "C" models)	602-1033-ND	1495.00	DC-ME-01T-GN
Development Kit without Raven Debugger (for use with "C" models)	602-1034-ND	895.00	DC-ME-01T-GN-NR

Features:

• Interchangeable and pin-compatible single-component solution based on 32-bit NET+ARM processor • High-speed TTL serial interface with up to 230 Kbps throughput • Wireless Ethernet network interface: 802.11b with up to 11 Mbps; Strong WPA2/802.11i security with TKIP/AES encryption; Radio pre-certification • Wired Ethernet network interface: Auto-sensing 10/100Base-T; Innovative power pass-through for network powered products • Five shared GPIO port options

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Customizable with JTAG interface, 8MB SDRAM, 2MB Flash	602-1058-ND	99.00	DC-ME-01T-JT
Customizable with JTAG interface, 8MB SDRAM, 4MB Flash	602-1059-ND	99.00	DC-ME4-01T-JT
Development Kit for LxNETES Linux	602-1050-ND	299.00	FS-9060
Digi-Connect Wi-ME			
8 MB SDRAM, 4 MB Flash, Std. Firmware	602-1037-ND	130.00	DC-WME-01T-S
8 MB SDRAM, 4 MB Flash, Customizable	602-1038-ND	130.00	DC-WME-01T-C
Integration Kit (for use with "S" models)	602-1051-ND	299.00	DC-WME-01T-KT
Development Kit (for use with "C" models)	602-1000-ND	1495.00	DC-WME-01T-GN
Development Kit without Raven Debugger (for use with "C" models)	602-1001-ND	895.00	DC-WME-01T-GN-NR
Customizable with JTAG Interface	602-1002-ND	249.00	DC-WME-01T-JT

Digi Connect® EM/Wi-EM Family

EM/Wi-EM are the industry's first interchangable secure embedded modules, delivering wired and wireless Ethernet network connectivity that is cost-effective and easy to implement. "Drop-in" integration allows you to build future-proof products based on a single design supporting secure 10/100Base-T wired and 802.11b wireless Ethernet connectivity. These modules feature a varity of connectivity options, such as two-high speed serial ports, an SPI master mode interface and nine General Purpose Input/Output(GPIO) port options. For additional integration flexibility, they are available in two low-profile population options, with or without onboard LED array and an Ethernet connector.

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Digi-Connect EM			
8 MB SDRAM, 4 MB Flash, Std. Firmware	602-1039-ND	79.00	DC-EM-02T-S
8 MB SDRAM, 4 MB Flash, Customizable	602-1040-ND	79.00	DC-EM-02T-C
Integration Kit (for use with "S" models)	602-1003-ND	299.00	DC-EM-02T-KT
Development Kit (for use with "C" models)	602-1004-ND	1495.00	DC-EM-02T-GN
Development Kit without Raven Debugger (for use with "C" models)	602-1005-ND	895.00	DC-EM-02T-GN-NR
Development Board with Customizable JTAG Wi-ME Module	602-1006-ND	299.00	DC-EM-02T-JT-DB
Customizable with JTAG Interface	602-1007-ND	249.00	DC-EM-02 T-JT

Features: • Interchangeable and pin-compatible single-component solution based on 32-bit NET+ARM processor • Two high-speed TTL serial interfaces • Serial Peripheral Interface (SPI) • Wireless Ethernet network interface • Wired Ethernet network interface: Auto-sensing 10/100Base-T

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
Digi-Connect Wi-EM			
8 MB SDRAM, 4 MB Flash, Std. Firmware	602-1041-ND	140.00	DC-WEM-02T-S
Integration Kit (for use with "S" models)	602-1008-ND	299.00	DC-WEM-02T-KT
Development Kit (for use with "C" models)	602-1009-ND	1495.00	DC-WEM-02T-GN
Development Kit without Raven Debugger (for use with "C" models)	602-1010-ND	895.00	DC-WEM-02T-GN-NR
Development Board with Customizable JTAG Wi-ME module	602-1011-ND	299.00	DC-WEM-02T-JT-DB
Customizable module with JTAG Interface	602-1012-ND	249.00	DC-WEM-02T-JT

ConnectCore™ 7U

Universal 32-bit NET+ARM embedded core processor module offers a wide range of component connectivity options and superior software design flexibility through complete development platform support options.

Features: • Core processor module in compact 48-pin DIP form factor • Powerful 32-bit NET+ARM processor: 55 MHz NS7520 with ARM7TDMI core • Integrated 10/100 Ethernet MAC/PHY • Up to 2 high speed serial ports - UART and SPI (Master) configurations • Standard mode 1^{2}C software interface

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
16 MB SDRAM, 2 MB Flash	602-1056-ND	99.00	FS-355
16 MB SDRAM, 8 MB Flash, Fingerprint License	602-1042-ND	159.00	FS-353
16 MB SDRAM , 8 MB Flash	602-1060-ND	135.00	FS-352
FS Forth UNC90 with 32 MB SDRAM, 16 MB Flash, (Atmel AT91RM9200 MCU @ 180 MHz)	602-1046-ND	175.00	FS-373
Development Kit for LxNETES Linux	602-1052-ND	299.00	FS-997
Development Kit for NET+OS	602-1018-ND	1495.00	FS-998
Biometric Design Kit - IKENDI Fingerprint	602-1019-ND	895.00	FS-9007
Compact Flash Design Kit with 802.1b wireless	602-1020-ND	895.00	FS-9021
Java Design Kit - Java (Mika)	602-1021-ND	895.00	FS-9022
JTAG SuperBooster for programming flash memories with software - 3 volt.	602-1036-ND	795.00	FS-985
JTAG SuperBooster for programming flash memories with software - 5 volt.	602-1028-ND	795.00	FS-984

ConnectCore™ 9C

Highly-integrated, compact DIMM form factor module based on the 155 MHz NS9360 ARM9 processor provides core processing functionality with integrated network connectivity.

It enables original equipment manufacturers to design in main processor functionality and networking capabilities with a single, high performance solution.

Features:

• 32-bit NS9360 high performance RISC processor (155 MHz) with MMU • Up to 4 high-speed TTL serial ports • Up to 4 SPI ports • I^{2}C v1.0 bus interface • USB 2.0 Host/Device Interface • LCD Controller • General Purpose Timers/Counters/PWM • 4 programmable external interrupts • Up to 55 shared General Purpose Input/Output (GPIO) ports • Real-time clock

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
16 MB SDRAM, 4 MB Flash, Ethernet Dual Stacked USB Connectors	602-1061-ND	175.00	CC-9C-V212
Development Kit for NET+OS with Raven Hardware Debugger	602-1022-ND	2495.01	CC-9C-GN
Development Kit for NET+OS with Software Debugger	602-1023-ND	1894.99	CC-9C-GN-NR

ConnectCore™ 9P

Compact high-performance 32-bit NET+ARM processor module family combines superior performance and design integration flexibility with complete embedded software platform support. ConnectCore 9P modules are a complete set of integrated peripherals and component connectivity options in a compact and versatile form factor.

Features:

ConnectCore9P 9750: • 32-bit NET+ARM (ARM926EJ-S) high-performance RISC processor NS9750 @ 200 MHz • Up to 128 MB NAND Flash and 64 MB SDRAM: Standard population 32 MB Flash and 16 MB RAM • Integrated 32-bit PCI v2.2/Cardbus Bridge (33 MHz) • 16 General Purpose Timers/Counters • Up to 50 GPIO port options
ConnectCore9P 9360: • 32-bit NET+ARM (ARM926EJ-S) high-performance RISC processor NS9360 @ 177 MHz • Up to 128 MB NAND Flash and 128 MB SDRAM: Standard population 32 MB Flash and 32 MB RAM • 8 General Purpose Timers/Counters or 4 PWM functions • Up to 73 GPIO port options
ConnectCore 9P Family: • Integrated 10/100 Mbps Ethernet MAC/PHY • Up to four serial interfaces w/UART and SPI mode • Integrated USB 2.0 compliant host/device interface • On-chip I^{2}C bus interface (100/400 kHz) • Flexible LCD controller with support for TFT/STN displays • External memory bus interface • Real-Time Clock (RTC) with support for external battery backup • 8 KB serial EEPROM for configuration storage • On-board JTAG interface

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
16 MB SDRAM, 32 MB Flash with NS9750	602-1062-ND	235.00	FS-364
64 MB SDRAM, 32 MB Flash with NS9750	602-1043-ND	320.00	FS-380
32 MB SDRAM, 32 MB Flash with NS9360	602-1063-ND	215.00	FS-382
64 MB SDRAM, 64 MB Flash with NS9360	602-1044-ND	275.00	FS-383
(9360) Development Kit for LxNETES - Linux	602-1026-ND	2495.01	FS-9064
(9750) Development Kit for LxNETES - Linux	602-1024-ND	2495.01	FS-9053
(9750) Development Kit of NET+OS	602-1025-ND	2495.01	FS-9032

Antennas for Digi Wireless Modules

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
2.4 GHz Dipole Antenna with 2dBi Gain	602-1064-ND	10.00	DC-ANT-24DP
2.4 GHz Desktop Antenna with 2dBi Gain	602-1065-ND	20.00	DC-ANT-24DT
30cm Extension Cord with RP-SMA Bulkhead Connector	602-1066-ND	12.00	DC-ANT-E-24DP

ConnectCore™ XP

High-performance core module with Intel® XScale® processor provides complete embedded platform support, combining industry-leading performance, multimedia capabilities and low power requirements in an ulta-compact form factor. It provides the core processor platform solution of choice for applications demanding the combination of scalable Intel PXA270 performance at speeds up tp 520 MHz, on-chip video and audio capabilities, low power requirements, integrated network connectivity, and complete embedded software platform flexibility.

Kit Includes:

• LxNETES v3.2 Embedded Linux Distribution (2.6.12 kernel) with GNU Host Development Tools ConnectCore XP Development Board and module, power supply and cables with schematics • 5.7" QVGA LCD Display • One JTAG Flash Programming Tool (JTAG Booster)

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
64 MB SDRAM, 32 MB Flash	602-1045-ND	350.00	FS-377
Development Kit for LxNETES - Linux	602-1027-ND	2495.01	FS-9077

Embedded Core Modules

These high performance, Samsung processor based, modules are members of FS Forth-System's ModARM9 family of modular solutions for embedded systems. These modules include SDRAM, flash and control logic in a compact 60x44mm form factor.

Low power consumption allows for battery powered applications. Other typical applications include those in Industrial Automation, Retail Point-Of-Sale, Medical Instrumentation and Data Acquisition.

Features:

• LCD Controller (STN and TFT) • Touch screen interface • USB 1.1 Host and Device Controller • 32/64/128 MBytes NAND Flash • 16/32/64/128 MBytes SDRAM • 3 UART channels • **A9M2410:** • Samsung's S3C2410 microcontroller • ARM920T core (200MHz) with MMU • **A9M2440:** Samsung's S3C2440 microcontroller • ARM920T core (400 MHz) with MMU

Description	Digi-Key Part No.	Price Each	Digi-International Part No.
FS Forth A9M2410 Module with 32 MB SDRAM, 32 MB Flash No Ethernet	602-1047-ND	195.00	FS-365
FS Forth A9M2410 Module with 32 MB SDRAM, 32 MB Flash with 10 Mbps Ethernet	602-1048-ND	215.00	FS-362
FS Forth A9M2440 Module with 32 MB SDRAM, 32 MB Flash with 10 Mbps Ethernet	602-1049-ND	250.00	FS-662

Jackrabbit™ Low-Cost Single-Board Computer

Model BL1800: • **Board Size:** 2.50" x 3.50" x 0.94" (64mm x 89mm x 24mm) • **Input Voltage:** 8-40VDC, switching regulator, 49 mA typical at 24VDC • **General Purpose I/O:** 14 bi-directional, 6 inputs, 4 outputs (CMOS compatible) • **High Power Outputs:** 3 sinking (1 Amp) and 1 sourcing (500mA) • **1 Analog Input:** 9-bit resolution, 8-bit accuracy, 0.1-2.8V input range, 75ms typical acquisition time • **2 Analog Outputs:** Filtered/buffered PWM outputs • **Processor:** Rabbit 2000, clock, 29.5MHz • **Memory:** SRAM 128K, flash 256K • **Timers:** Five 8-bit cascadable timers, one 10-bit timer with 2 match registers • **Serial Ports:** (2) RS-232 (or one with CTS/RTS) rated at 1KV ESD, (1) RS-485 rated at 15kV ESD, (1) 5V CMOS compatible (programming port), 2 serial ports can be clocked • **Serial Rate**: Selectable baud rates up to 115,200 bps (RS-232), 230,400 bps (RS-485). 5 Volt CMOS compatible port up to 7.37Mbps • **Additional Features:** watchdog/supervisor, time/date clock, and backup battery

Model BL1810: Same as BL1800, except with 14.7MHz clock, 128K flash, linear regulator (8-25V), 3 sinking (200mA) and 1 sourcing (100mA) high-voltage outputs, and CMOS port baud rate of 3.69Mbps.

Model BL1820: Same as BL1810, except no RS-485, no backup battery or battery circuitry, and 3 additional I/O

Description	Digi-Key Part No.	Price Each 1	5	25	Z-World Part No.
Model BL1800	316-1011-ND	99.00	—	—	101-0356
Model BL1810	316-1001-ND	69.00	65.00	61.00	101-0357
Model BL1820	316-1002-ND	49.00	46.00	43.00	101-0358

Jackrabbit™ Development Kit

Digi-Key Part No. 316-1000-ND (101-0363) Only **$139.00**

Includes Jackrabbit BL1810, manual, schematics, AC adapter, prototyping board, programming cable, documentation on CD ROM, additional parts, and complete Dynamic C SE software development system (not a trial version).

Low-Cost Single-Board Computer

Features:

• Rabbit 3000® microprocessor operating at up to 7.4MHz • 512K/128K static RAM and 512K/256K flash memory options • 26 Digital I/O: 16 protected digital inputs and 10 high-current digital outputs • 8 Single-ended or 4 differential analog channels with Vcc monitoring option: 11-bit single-ended or 12-bit differential channels • 3 PWM outputs • Six serial ports • Battery-backed real-time clock • Watchdog supervisor

The LP3500 can be mounted to a panel or on a plastic-enclosure base.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model LP3500	316-1058-ND	199.00	101-0525
Fox Tool Kit	316-1056-ND	200.00	101-0529

Interface OP7200 with Touchscreen

Features:

• Small Size: 4.4" x 5.7" x 1.7" (112mm x 144mm x 43mm) • 1/4 VGA LCM display (320 x 240 pixels) with white LED backlight • 9-key keypad • LCD controller and SRAM compatible with OP7100 • 4 Status LED's • 24 Digital I/O • Rabbit 2000® microprocessor operating at 22.1 MHz • Audible alarm buzzer • 128K static RAM and 256K flash memory standard • One RJ-45 Ethernet port • Four serial ports • On-board backup battery • Watchdog • External reset input • Meets NEMA 4 watertightness specifications when front-panel mounted

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model OP7200 with Touchscreen	316-1059-ND	449.00	101-0535
LCD/Keypad Panel Mount	316-1050-ND	99.00	101-0541
LCD/Keypad Plug-in	316-1051-ND	79.00	101-0465
20" Cable for Panel Mount Keyboard/display	316-1052-ND	15.00	540-0066
OP7200 Tool Kit	316-1057-ND	200.00	101-0543

Interface OP6800 with Ethernet Port

Features:

• 122 x 32 Graphic display • 7-key keypad • 7 LED's • 24 Digital I/O • Rabbit 2000® microprocessor at 22.1MHz • 128K static RAM and 256K flash memory • One RJ-45 Ethernet port • Four serial ports • Battery-backable real-time clock, battery included • Watchdog • Reset generator • Meets NEMA 4 watertightness specifications when front-panel mounted

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model OP6800 with Ethernet Port	316-1060-ND	249.00	101-0492

SF1000 Expansion Board — 8MB

The SF1000 is a serial-interfaced flash memory card designed to work with Z-World's single-board computers. Single-board computers equipped with the Rabbit 2000 processor can use the SF1000 with either a synchronous (SPI) or an emulated SPI via parallel I/O ports.

The SF1000 comes with a 10-pin, 2mm, 5 x 2 header.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Model SF1000 Serial Flash, 8MB Expansion Board	316-1053-ND	89.00	101-0467

Cable Converter

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RS-232 to USB, Cable Converter	316-1054-ND	39.00	540-0070

Rabbit Cloning Board

The Rabbit Cloning Board copies designated portions of flash memory from one Rabbit-based controller (the master) to another (the clone). Dynamic C® version 6.50 or later is needed to use the cloning board.

Benefits: • The Rabbit Cloning Board replaces a PC or EPROM burner as the primary tool to load programs, thus reducing costs and workspace • Programs may be loaded quickly onto blank, soldered on flash devices • High-speed transfers at 57,600 bps or 115,200 bps • Higher-speed data transfer of up to 921,600 bps starting with Dynamic C version 7.05 • Ideal for low-volume cloning production

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Cloning Board	316-1047-ND	89.00	101-0589

Rabbit 3000A™ Microprocessor

Programming the Rabbit 3000A:
Microprocessor hardware and software development is easy for Rabbit users. The Rabbit 3000A is programmed using the industry-proven Dynamic C® software development system from sister division Z-World.

Key Features:
• Low-EMI: typically <10 dB µV/m @ 3m • Ultra-low power modes • 1.8-3.6V (5V tolerant I/O) • 55.5MHz clock speed • 56+ digital I/O • 6 serial ports supporting IrDA and ASync (4 of which support SPI; 2 support SDLC/HDLC) • Pulse capture and measurement • Quadrature encoder inputs • PWM outputs

Standard Features:
• Glueless memory and I/O interface • Direct support for 1 MB code/data space (up to 6 MB with glueless interface) • Battery-backable real-time clock • Watchdog timer • Remote boot/program • Slave port interface

Design Advantages:
• Extensive Ethernet/Internet support and royalty-free TCP/IP stack with source and sample programs • Dynamic C® development environment for real-time development and debugging • Exceptionally fast performance for math, logic and I/O

Description	Digi-Key Part No.	Price Each			Rabbit Part No.
		2	10	100	
Rabbit 3000A 55.5MHz, 128LQFP	316-1061-ND◊ ***NEW!***	16.82	15.23	14.50	20-668-0011

◊ ***RoHS Compliant***

Rabbit 3000A/RCM3000 Development Kit

Digi-Key Part No. 316-1017-ND (101-0523) Only **$299.00**

The Rabbit 3000A/RCM3000 Development Kit includes an RCM3010 Ethernet core module (with Rabbit 3000A microprocessor, Flash, SRAM, Ethernet hardware), a prototyping board, complete Dynamic C SE software development system (not a trial version) with TCP/IP stack and documentation on CD-ROM, power supply and serial cable for programming and debugging.

RabbitCore™ RCM3400 Analog Core Module

Features:
• 3.3V operation • Powerful Rabbit 3000™ microprocessor • Low-EMI (typically <10dB µV/m@3m) • RCM3400-512K Flash/512K SRAM, RCM3410-256K Flash/256K SRAM • 8 channel 12-bit A/D with programmable gain • 47 digital I/O, alternate I/O bus • 5 serial ports (IrDA, SDLC/HDLC, Asynch, SPI) • MAC ID installed

Design Advantages:
• Ready-made platform for fast time-to-market • Compact size simplifies integration • Dynamic C development environment for real-time development and debugging • Exceptionally fast performance for math, logic, and I/O

Description	Digi-Key Part No.	Price Each			Rabbit Part No.
		1	10	100	
RCM3400 Core Module	316-1025-ND	69.00	58.39	55.00	101-0561
RCM3410 Core Module	316-1026-ND	59.00	49.93	45.39	101-0562

Rabbit RCM3400 RabbitCore Development Kit

Digi-Key Part No. 316-1027-ND (101-0587) Only **$399.00**

The RCM3400 Development Kit includes an RCM3400 core module, a prototyping board, AC adapter (U.S. only), 10-pin header to DE9 programming cable with integrated level-matching circuitry, complete Dynamic C SE software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the Prototyping Board.

RabbitCore™ RCM3100 Core Module

The RCM3100 features a battery-backable real-time clock, glueless memory and I/O interfacing, and ultra-low power "sleepy" modes. A fully enabled 8-bit slave port permits easy master-slave interfacing with another processor-based system, and an alternate I/O bus can be configured for 8 data lines and 6 address lines (shared with parallel I/O).

Features:

• Actual Size: 1.85" x 1.65" x 0.48" (47mm x 42mm x 12mm) • 29.4 MHz clock speed • 3.3V operation • Powerful Rabbit 3000™ microprocessor • Low-EMI (typically <10 dB µV/m @ 3m) • RCM3100: Up to 512K Flash/512K SRAM • RCM3110: 256K Flash and 128K SRAM • 54 digital I/O • 6 serial ports (IrDA, SDLC/HDLC, Async, SPI) • Alternate I/O bus • Ultra-low power "sleepy" modes • Pulse capture and measurement • Quadrature encoder inputs • PWM outputs

Design Advantages:

• Ready-made platform for fast time-to-market • Compact size simplifies integration • Pin compatible with Ethernet RCM3000 for parallel product development • Dynamic C® development environment for real-time development and debugging • Exceptionally fast performance for math, logic, and I/O

Description	Digi-Key Part No.	Price Each			Rabbit Part No.
		1	10	100	
RCM3100 Core Module	316-1021-ND	65.00	55.00	50.00	101-0517
RCM3110 Core Module	316-1022-ND	45.00	38.00	35.00	101-0518

Rabbit RCM3100 RabbitCore Development Kit

Digi-Key Part No. 316-1020-ND (101-0533) Only **$239.00**

The RCM3100 Development Kit includes an RCM3110 core module (with Rabbit 3000 microprocessor, Flash, SRAM, serial ports, and I/O ports), a prototyping board, complete Dynamic C SE software development system (not a trial version) with documentation on CD-ROM, AC adapter (U.S. only) and serial cable for programming and debugging.

RabbitCore™ RCM3000 Core Module

Features:
• Actual Size: 2.73" x 1.85" x .086" (69mm x 47mm x 22mm) • 29.4 MHz clock speed • 10Base-T • Powerful Rabbit 3000™ microprocessor • Low-EMI (typically <10 dB µV/m @ 3m) • Built-in Ethernet for simplified connectivity • 3.3V operation • RCM3000: Up to 512K Flash/512K SRAM • RCM3010: 256K Flash and 128K SRAM • 52 digital I/O • 6 serial ports (IrDA, SDLC/HDLC, Async, SPI) • Alternate I/O bus • Ultra-low power "sleepy" modes • Pulse capture and measurement • Quadrature encoder inputs • PWM outputs

Design Advantage:
• Ready-made platform for fast time-to-market • Dynamic C® development environment for real-time development and debugging

Description	Digi-Key Part No.	Price Each			Rabbit Part No.
		1	10	100	
RCM3000 Core Module	316-1018-ND	83.21	73.74	67.42	101-0507
RCM3010 Core Module	316-1019-ND	63.29	54.71	52.57	101-0508

Rabbit 2000™
8-Bit Microprocessor

Rabbit 2000 Advantages:
• Architecture for enhanced math performance • Glueless memory and I/O interface • Remote cold boot • Slave interface • 4 serial ports • 40-plus multifunctional I/O pins • Battery-backable real-time clock • Watchdog timer • Five 8-bit cascadable timers and one 10-bit timer with match registers • 488 microsecond periodic interrupt • Clocking options for low power applications

Rabbit 2000™ Development Kit

Digi-Key Part No. 316-1003-ND (101-0359) Only **$139.00**

Kit includes Jackrabbit single board computer, manual, schematics, AC adapter, prototyping board, programming cable, documentation on CD ROM, additional parts and complete Dynamic C SE software development system (not a trial version).

Description	Digi-Key Part No.	Price Each			Rabbit Part No.
		2	10	100	
Rabbit 2000	316-1004-ND	14.69	13.54	12.39	668-0003
Rabbit 2000	316-1062-ND◊ ***NEW!***	14.69	13.54	12.39	20-668-0003

◊ ***RoHS Compliant***

Rabbit 2000™ 8-Bit Microprocessor with TCP/IP Support

Features: • 18.432 MHz Rabbit 2000 Processor • 10Base-T Ethernet Interface • 4 High-Current Outputs (200 mA @ 40VDC) • 4 Digital Input Points (0-5 VDC Nominal) • RS-232 Serial Port • RS-485 Serial Port • 512K Flash Memory (2 x 256K) • 128K SRAM • 7 Built-in Timers • Time/Date Real-Time Clock • Watchdog Timer

Rabbit 2000™ TCP/IP Development Kit

Digi-Key Part No. 316-1005-ND (101-0401) Only **$199.00**

Kit includes Rabbit 2000™ TCP/IP development board (with Rabbit 2000 microprocessor, flash, SRAM, Ethernet hardware, 8 digital I/O), demonstration board, power supply, PC serial cable for real-time debugging and complete Dynamic C SE software development system (not a trial version) with TCP/IP on CD ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Rabbit 2000 TCP/IP Toolkit	316-1006-ND	99.00	101-0403

RabbitCore 2000™ Microprocessor Core Module

RABBITCORE 2000
- **Board Size:** 1.90" x 2.30" x 0.50" (48.3mm x 58.4mm x 12.7mm)
- **Input Voltage:** 4.75-5.25VDC
- **Current:** 98mA at 18.432 MHz, 5VDC (130mA at 25.8 MHz, 5VDC)
- **Processor:** Rabbit 2000
- **General Purpose I/O:** 40 parallel I/O lines grouped in five 8-bit ports (shared with serial ports)
- **Memory, I/O Interface:** 13 Address lines, 8 data lines, I/0 read/write, buffer enable, status, clock
- **Additional Digital Inputs:** (2), start up mode (for master/slave), reset in
- **Additional Digital Outputs:** Watchdog output, reset out
- **Clock:** 18.432 MHz - 25.8 Mhz (see versions)
- **SRAM:** 128K - 512K, (see versions)
- **Flash:** 256K
- **Timers:** Five 8-bit cascadable timers, one 10-bit timers with 2 match registers
- **Serial Ports:** 4 CMOS-compatible ports. Max asynchronous baud rate is 806,400bps, maximum synchronous is 6.45Mbps. Two ports are configurable as clocked ports
- **Slave Interface:** Allows the RabbitCore 2000 to be used as an intelligent peripheral device slaved to a master processor

Additional Features: Watchdog supervisor, time/date clock, backup battery circuitry and connections for user-supplied battery. Mates to your board via dual 40-pin male connectors.

RabbitCore 2000™ Development Kit

Digi-Key Part No. 316-1007-ND (101-0398) Only **$169.00**

Kit includes a model RCM2020, manual with schematics and documentation on CD-ROM, getting started guide, AC adapter, prototyping board, programming cable and complete Dynamic C SE software development system (not a trial version) on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2000 (25.8 MHz clock and 512K SRAM)	316-1008-ND	69.00	101-0404
RCM2010 (25.8 MHz clock and 128K SRAM)	316-1009-ND	49.00	101-0405
RCM2020 (18.432 MHz clock and 128K SRAM)	316-1010-ND	39.00	101-0383

RabbitLink™ EG2110

Rabbit-based embedded systems are normally programmed using a direct connection between a PC and the programming port of the Rabbit-based system.

The RabbitLink provides an indirect connection between the two for remote downloading and debugging.

Features: • Rabbit 2000™ microprocessor operating at 22.1 MHz • RJ-45 Ethernet port compliant with IEEE 802.3 standard for 10 Base-T Ethernet protocol • 2 Serial Ports • 3 Status LED's, labeled USER, ACT and LINK • 128K static RAM and 512K flash memory • Firmware installed • Easy setup with DHCP or simple console commands • Password protection • Remote program downloading and debugging

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
EG2110 RabbitLink Board	316-1049-ND	129.00	101-0580

RabbitCore™ RCM2200 Microprocessor Core Module

RabbitCore RCM2200

• **Board Size:** 1.60" x 2.30" x 0.86" (41 mm x 59 mm x 22 mm) • **In-put Voltage:** 4.75–5.25VDC • **Current:** 134 mA at 5VDC • **Processor:** Rabbit 2000 • **General Purpose I/O:** 26 parallel I/O lines grouped in five 8-bit ports (shared with serial ports) • **Memory, I/O Interface:** 4 address lines, 8 data lines, I/O Read-Write • **Additional Digital Inputs:** Startup mode, reset • **Additional Digital Outputs:** Status, reset • **Clock:** 22.1 MHz • **SRAM:** 128K, surface mount • **Flash:** 256K, surface mount • **Timers:** Five 8-bit timers, one 10-bit timer. Five timers are cascadable in pairs • **Serial Ports:** 4 CMOS-compatible ports. Max asynchronous baud rate is 691,000 bps, max synchronous is 5.53 Mbps. Two ports are configurable as clocked ports • **Slave Interface:** Allows the RCM2200 to be used as an intelligent peripheral device slaved to a master processor

Additional Features:

Watchdog/supervisor, time/date clock, backup battery circuitry, and connection for user-supplied battery

RabbitCore™ RCM2200 Development Kit

Digi-Key Part No. 316-1012-ND (101-0475) Only **$239.00**

Kit includes RCM2200 core module (Ethernet, 256K Flash, 128K SRAM), Getting Started manual with schematics, DC power supply (U.S. only), prototyping board, PC serial cable, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM22003	316-1013-ND	55.00	101-0454

RabbitCore™ RCM2300 Microprocessor Core Module

RabbitCore RCM2300:

• **Board Size:** 1.15" x 1.60" x 0.47" (29 mm x 41 mm x 12 mm) • **Input Voltage:** 4.75–5.25VDC • **Current:** 108 mA at 5VDC • **Processor:** Rabbit 2000 • **General Purpose I/O:** 29 parallel I/O lines grouped in five 8-bit ports (shared with serial ports) • **Memory, I/O Interface:** 4 address lines, 8 data lines, I/O Read-Write (extra address line and Buffer Enable via separate connections) • **Additional Digital Inputs:** Startup mode, reset • **Additional Digital Outputs:** Status, reset • **Clock:** 22.1 MHz • **SRAM:** 128K, surface mount • **Flash:** 256K, surface mount • **Timers:** Five 8-bit timers, one 10-bit timer. Five timers are cascadable in pairs • **Serial Ports:** 4 CMOS-compatible ports. Max asynchronous baud rate is 691,000 bps, maximum synchronous is 5.53 Mbps. Two ports are configurable as clocked ports • **Slave Interface:** Allows the RCM2300 to be used as an intelligent peripheral device slaved to a master processor

Additional Features: Watchdog/supervisor, time/date clock, backup battery circuitry, and connection for user-supplied battery

RabbitCore™ RCM2300 Development Kit

Digi-Key Part No. 316-1015-ND (101-0480) Only **$199.00**

Kit includes RCM2300 core module (256K Flash, 128K SRAM), Getting Started manual with schematics, DC power supply (U.S. only), prototyping board, PC serial cable, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
RCM2300	316-1014-ND	42.00	101-0453

RabbitCore™ RCM3200 Microprocessor Core Module

Designing with RabbitCores: RabbitCores are powered by high-performance 8-bit Rabbit microprocessors with extensive integrated features and a C-friendly instruction set designed for use with the Dynamics C® development system. Embedded systems using the Ethernet RabbitCore module can be controlled and monitored (as well as programmed and debugged when using appropriate accessory hardware) across any network or the Internet.

Programming the RCM3200: Programs are developed using our industry-proven Dynamics C software development system (SE version included in low-cost development kits). An extensive library of drivers and sample programs is provided, along with royalty-free TCP/IP stack with source.

RabbitCore RCM3200: • **Board Size:** 2.73" x 1.85" x 0.86" (69 mm x 47 mm x 22 mm) • **Power:** 3.15–3.45VDC • **Current:** 255 mA at 3.3V • **Processor:** Rabbit 3000 at 44.2 MHz • **General Purpose I/O:** 52 digital I/O (44 configurable I/O, 4 fixed inputs, and 4 fixed outputs) • **Additional Digital Inputs:** 2 Startup Mode, Reset in • **Additional Digital Outputs:** Status, Reset out • **Real-Time Clock:** Yes • **SRAM:** 512K program +256K data • **Flash:** 512K • **Timers:** Ten 8-bit timers (6 cascadable from the first) and one 10-bit timer with 2 match registers • **Serial Ports:** 6 CMOS-compatible: 6 configurable as asynchronous (with IrDA), 4 as clocked serial (SPI), and 2 as SDLC/HDLC (with IrDA), 1 asynchronous clocked serial port dedicated for programming, Support for MIR/SIR IrDA transceiver • **Slave Interface:** Allows use as master or intelligent peripheral with Rabbit-based or other master controller

Additional Features: Ethernet Port, Watchdog/Supervisor, Pulse-Width Modulators, Quadrature Decoder, Real-Time Clock, and Backup Battery

RabbitCore™ RCM3200 Low-Cost Development Kit

Digi-Key Part No. 316-1023-ND (101-0552) Only **$349.00**

Kit includes RCM3200 RabbitCore, Getting Started manual, DC power supply (U.S. only), prototyping board, Serial Cable for Programming and debugging, and complete Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Module RCM3200 MPU	316-1024-ND	89.00	101-0520

RabbitCore™ RCM2100 Microprocessor Core Module

Features:

• Ethernet • 512K SRAM • 512K Flash

RabbitCore RCM2100 Specifications:

• Microprocessor: Rabbit 2000 at 22.1 MHz • **General Purpose I/O:** 34 parallel I/O (20 configurable I/O, 8 fixed inputs, and 6 fixed outputs) • **Additional Inputs:** 2 Startup Mode, Reset in • **Additional Outputs:** Status, Clock, Watchdog Out, Reset out • **Memory I/O:** 13 buffered address, 8 buffered data, plus I/O Read-Write and Buffer Enable • **Serial Ports:** four 5V CMOS-compatible; 2 configurable as clocked ports • **Serial Rate:** Max. burst rate = CLK/32 Maximum sustained rate = Burst/2 • **Connectors:** Two 2 x 20, 2mm IDC headers • **Slave Interface:** Allows use as master or intelligent peripheral with Rabbit-based or other master controller • **Real-Time Clock:** Yes • **Timers:** Five 8-bit timers (4 cascadable from the first) and one 10-bit timer with 2 match registers • **Watchdog/Supervisor:** Yes • **Power:** 4.75-5.25VDC, 140mA • **Operating Temperature:** -40°C ~ 70°C • **Humidity:** 5-95%, non-condensing • **Board Size:** 3.5" x 2.0" x 0.85" (89 x 51 x 22mm)

RabbitCore™ 2000/RCM2100 Low-Cost Development Kit

Digi-Key Part No. 316-1028-ND (101-0451) Only **$279.00**

Jumpstart your evaluation and design efforts with a complete development kit, which includes RCM2100 microprocessor core module, prototyping board, Dynamic C SE software development system (not a trial version) and complete documentation on CD-ROM, serial cable for programming and debugging, Getting Started manual, and AC adapter (U.S. Canada only).

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Module RCM2100 MPU	316-1029-ND	89.00	101-0434

RabbitCore™ RCM3300/3310 Core Module

Features: • 3.3V Operation • Powerful Rabbit 3000A microprocessor • 512K Flash/512K SRAM • 49 digital I/O • 5 Serial Ports

Design Advantages: • Ready-Made Platforms for quick design to market • Compact size • Dynamic C© development environment for real-time developing and debugging • Fast performance for math, logic, and I/O

RabbitCore™ RCM3300 Development Kit

Digi-Key part number 316-1036-ND (101-0704) Only $299.00

The RCM3300 Development Kit includes an RCM3300 core module, a proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Module RCM3300	316-1030-ND	119.00	101-0691
Module RCM3310	316-1031-ND	99.00	101-0698

RabbitCore™ RCM3600/3610 Core Module

Features:

• 3.3V operation • Powerful Rabbit 3000A processor • 256k (3610) to 512k (3600) Flash Memory and SRAM • 33 digital I/O • 4 Serial Ports • Size: 2.1" x 1.2" (53mm x 30mm)

Design Advantages:

• Low Cost Solution • Ready made platform for easy design implementation • Compact Size • Dynamic C© development environment for real-time developing and debugging • Fast performance for math, Logic, and I/O

RabbitCore™ RCM3600 Development Kit

Digi-Key part number 316-1037-ND (101-0678) Only $299.00

The RCM3600 Development Kit includes RCM3600 core module, proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Module RCM3600	316-1032-ND	49.00	101-0672
Module RCM3610	316-1033-ND	45.00	101-0673

RabbitCore™ RCM3700/3710 Core Module

The RCM3700/RCM3701 feature 512K Flash/512K SRAM or 256K Flash/128K SRAM.

Features:

• 3.3V operation • Powerful Rabbit 3000A processor • 512K Flash/512K SRAM • 33 digital I/O • 4 Serial Ports Design Advantages • Low Cost Solution • Ready Made platform for easy design implementation • Compact Size • Dynamic C© development environment for real-time developing and debugging • Fast performance for math, Logic, and I/O

RabbitCore™ RCM3700 Development Kit

Digi-Key part number 316-1038-ND (101-0680) Only $299.00

The RCM3700 Development Kit includes RCM3700 core module, proto board, AC Adapter (U.S. Only), Programming Cable, Complete Dynamic C software development system (not a trial version) with documentation on CD-ROM and a bag of accessory parts for use on the proto board.

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Module RCM3700	316-1034-ND	59.00	101-0674
Module RCM3710	316-1035-ND	49.00	101-0675

RabbitCore™ RCM3360/3370 Core Module

The RCM3360/RCM3370 modules present a new form of embedded flexibility with removable xD-Picture Cards™. Supporting on-board 16 MB NAND Flash as well as memory cards of up to 128 MB, this RabbitCore is ideal for large data applications requiring low-power operation.

Features: • Powerful Rabbit 3000 microprocessor @ 44 MHz clock • 10/100 Base-T Ethernet connectivity • 3.3V operation • 512K Flash/512K Program + 512K data SRAM • 49 digital I/O and 5 serial ports (RCM3300/3310) • 52 digital I/O and 6 serial ports (RCM3360/RCM3370) • Board size 1.85" x 2.73" x 0.86" (47mm x 69mm x 22mm)

Design Advantages:

• Ideal for network enabling security and access systems, home automation, HVAC systems, and industrial controls

RabbitCore™ RCM3360 Development Kit

Digi-Key part number 316-1046-ND (101-0953) Only $399.00

The RCM3360 Development Kit includes RCM3360 core module, proto board, AC Adapter (U.S. Only), Programming C, serial cable and a 32MB xD-Picture Card™

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Module RCM3360	316-1044-ND	105.00	101-0949
Module RCM3370	316-1045-ND	98.00	101-0950

RabbitCore™ Application Development Kits

Wi-Fi Kit: • Jumpstart your wireless application design with a complete application kit. Integrating Wi-Fi (IEEE 802.11b) with a RabbitCore™ Development Kit, embedded system integrators can now enable a wireless embedded system. Wireless connectivity eliminates Ethernet cables allowing for greater flexibility and mobility of wireless embedded Networks. **Includes:** • Linksys Wi-Fi card • RCM3100 microprocessor core module • Prototyping board • Dynamic C development system and complete documentation on CD-ROM • Serial cable for programming and debugging • 10-pin ® DB15 Conversion Cable • Manuals • AC adapter (U.S./Canada only)

M2M Kit: • Jumpstart your M2M application design with a complete application kit. **Includes:** • Wavecom Fastrack Modem • Device antenna • RCM3200 microprocessor core module • Prototyping board • Dynamic C development system and complete documentation on CD-ROM • Serial cable for programming and debugging • 10-pin DB15 Conversion Cable • Ethernet Crossover Cable • Manuals • AC adapter (U.S./Canada only)

Secure Embedded Web: As more embedded applications feature access via the Internet, secure transmission of data is growing increasingly critical. The Secure Embedded Web Application Kit provides optimized software development tools to easily build secure web interfaces for your new and existing applications. Built around the RCM3700 RabbitCore powered by the Rabbit3000 microprocessor, the Secure Embedded Web Application Kit offers Secure Socket Layer (SSL), which implements a 128-bit lock and key solution to encrypt data transfers. **Includes:** • RCM3700 microprocessor core module • Development board with prototyping area • Dynamic C development system and complete documentation on CD-ROM • SSL • RabbitWeb • FAT file system • Serial cable for programming and debugging • Getting Started manual • AC adapter (U.S./Canada only)

Serial to Ethernet: Designers now have a Serial-to-Ethernet Application Kit that is easy to use. The simple 3-Step Setup for transmitting data from a digital volt meter via a serial port to a TCP/IP stream enables even the newest user to quickly develop a Serial-to-Ethernet application. The kit features digital volt meter software libraries, sample programs and a menuing system, in addition to the Dynamic C® integrated development environment. **Includes:** • RCM3010 microprocessor core module • Prototyping board • Dynamic C development system and complete documentation on CD-ROM • Serial cable for programming and debugging • DB9 Null Modem Cable • 10-pin ® DB9 Conversion Cable • Ethernet Crossover Cable • Getting Started manual • Keypad/display unit • AC adapter (U.S./Canada only)

Description	Digi-Key Part No.	Price Each	Rabbit Part No.
Wi-Fi Application Kit	316-1039-ND	599.00	101-0911
Machine to Machine Kit	316-1040-ND	699.00	101-0721
Secure Embedded Kit	316-1041-ND	699.00	101-0897
Serial to Ethernet Kit	316-1042-ND	349.00	101-0689

C8051F High Performance Mixed-Signal MCUs

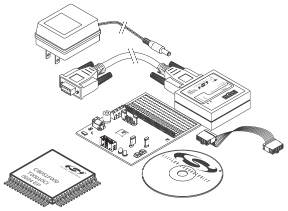

Precision Mixed-Signal Microcontrollers; Full-Featured MCUs with a Supercharged 8051 CPU

The Precision Mixed-Signal microcontroller family combines high-precision analog data converters with a high-throughput 8051 CPU making them ideal for analog and compute-intensive applications. ADC resolutions range from 8 ~ 24 bits and CPU throughputs range from 20 ~ 100 MIPS. Other on-chip analog peripherals include DACs (resolutions to 12-bits), a voltage reference, comparators, a temperature sensor and oscillators. Digital peripherals include external memory interface, timers, PCA (programmable counter array) modules, and UART, SPI and SMBus serial ports. ***Features:*** • **C8051F01x, C8051F12x, C8051F13x:** Ext. Memory Interface, Temperature Sensor and VREF • **C8051F02x and C8051F00x:** Temperature Sensor and VREF • **C8051F35x:** Temperature Sensor, PGA, and VREF • **C8051F064 and C8051F066:** Ext. Memory, and VREF • **C8051F065 and C8051F067:** VREF

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	ADC2	DAC	Comp.	Other	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Cut Tape Price Each			Silicon Labs Part No.	Development Kit Part No.
															1	25	100		
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1081-1-ND*	34.01	25.20	20.32	C8051F122R	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1082-1-ND*	32.88	24.36	19.64	C8051F123R	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	100-TQFP	336-1059-1-ND*	32.19	23.84	19.23	C8051F124R	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	64-TQFP	336-1060-1-ND*	30.99	22.95	18.51	C8051F125R	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±2%	50	100-TQFP	336-1061-1-ND*	29.51	21.85	17.63	C8051F126R	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1148-ND	18.27	15.75	12.20	C8051F131	C8051F120DK
64K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1149-ND	15.43	13.74	10.65	C8051F132	C8051F120DK
64K	4352	32	5	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1035-1-ND*	23.16	16.67	13.23	C8051F023R	C8051F020DK
32K	256	32	4	5	UART, SMBus, SPI	12-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	64-TQFP	336-1000-1-ND*	22.17	15.95	12.66	C8051F000R	C8051F005DK
32K	2304	32	4	5	UART, SMBus, SPI	12-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1003-1-ND*	23.76	17.10	13.57	C8051F005R	C8051F005DK
32K	2304	16	4	5	UART, SMBus, SPI	12-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	48-TQFP	336-1004-1-ND*	23.13	16.64	13.21	C8051F006R	C8051F005DK
32K	2304	8	4	5	UART, SMBus, SPI	12-Bit, 4-Ch. 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	25	32-LQFP	336-1041-1-ND*	22.59	16.25	12.90	C8051F007R	C8051F005DK
32K	256	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	64-TQFP	336-1005-1-ND*	20.76	14.94	11.85	C8051F010R	C8051F005DK
32K	256	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	20	48-TQFP	336-1006-1-ND*	20.37	14.66	11.63	C8051F011R	C8051F005DK
32K	256	8	4	5	UART, SMBus, SPI	10-Bit, 4-Ch. 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	20	32-LQFP	336-1007-1-ND*	19.83	14.27	11.32	C8051F012R	C8051F005DK
32K	2304	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	64-TQFP	336-1030-1-ND*	22.44	16.15	12.81	C8051F015R	C8051F005DK
32K	2304	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	12-Bit, 2-Ch.	2	—	±20%	25	48-TQFP	336-1031-1-ND*	22.08	15.89	12.61	C8051F016R	C8051F005DK
32K	2304	8	4	5	UART, SMBus, SPI	10-Bit, 4-Ch. 100ksps	—	12-Bit, 2-Ch.	1	—	±20%	25	32-LQFP	336-1042-1-ND*	21.84	15.71	12.47	C8051F017R	C8051F005DK
16K	1280	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch. 100ksps	—	—	2	—	±20%	25	48-TQFP	336-1049-1-ND*	17.46	12.56	9.97	C8051F019R	C8051F005DK
64K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1089-1-ND*	16.29	12.54	10.45	C8051F064	C8051F064EK
64K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1090-1-ND*	15.81	12.17	10.14	C8051F065	C8051F064EK
32K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1091-1-ND*	15.40	11.85	9.87	C8051F066	C8051F064EK
32K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1092-1-ND*	14.76	11.36	9.47	C8051F067	C8051F064EK
8K	768	17	4	3	UART, SPI, SMBus	24-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	32-LQFP	336-1084-1-ND*	8.67	7.00	5.79	C8051F350R	C8051F350DK
8K	768	17	4	3	UART, SPI, SMBus	24-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	28-MLP	336-1085-1-ND*	7.12	5.75	4.76	C8051F351R	C8051F350DK
8K	768	17	4	3	UART, SPI, SMBus	16-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	32-LQFP	336-1086-1-ND*	6.41	5.17	4.28	C8051F352R	C8051F350DK
8K	768	17	4	3	UART, SPI, SMBus	16-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	28-MLP	336-1087-1-ND*	5.38	4.34	3.59	C8051F353R	C8051F350DK
RoHS Compliant																			
32K	256	32	4	5	UART, SMBus, SPI	12-Bit, 8-Ch., 100ksps	—	12-Bit 2-Ch.	2	—	±20%	20	64-TQFP	336-1184-ND	14.27	11.51	8.87	C8051F000-GQ	C8051F005DK
32K	256	16	4	5	UART, SMBus, SPI	12-Bit, 8-Ch., 100ksps	—	12-Bit 2-Ch.	2	—	±20%	20	48-TQFP	336-1185-ND	14.03	11.32	8.73	C8051F001-GQ	C8051F005DK
32K	256	8	4	5	UART, SMBus, SPI	12-Bit, 4-Ch., 100ksps	—	12-Bit 2-Ch.	1	—	±20%	20	32-LQFP	336-1186-ND	13.82	11.16	8.60	C8051F002-GQ	C8051F005DK
32K	2304	32	4	5	UART, SMBus, SPI	12-Bit, 8-Ch., 100ksps	—	12-Bit 2-Ch.	2	—	±20%	25	64-TQFP	336-1187-ND	15.30	12.34	9.51	C8051F005-GQ	C8051F005DK
32K	2304	16	4	5	UART, SMBus, SPI	12-Bit, 8-Ch., 100ksps	—	12-Bit 2-Ch.	2	—	±20%	25	48-TQFP	336-1189-ND	14.89	12.01	9.26	C8051F006-GQ	C8051F005DK
32K	2304	8	4	5	UART, SMBus, SPI	12-Bit, 4-Ch., 100ksps	—	12-Bit 2-Ch.	1	—	±20%	25	32-LQFP	336-1190-ND	14.55	11.73	9.04	C8051F007-GQ	C8051F005DK
32K	256	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit 2-Ch.	2	—	±20%	20	64-TQFP	336-1191-ND	13.36	10.77	8.31	C8051F010-GQ	C8051F005DK
32K	256	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit 2-Ch.	2	—	±20%	20	48-TQFP	336-1192-ND	13.11	10.58	8.15	C8051F011-GQ	C8051F005DK
32K	256	8	4	5	UART, SMBus, SPI	10-Bit, 4-Ch., 100ksps	—	12-Bit 2-Ch.	1	—	±20%	20	32-LQFP	336-1193-ND	12.77	10.30	7.94	C8051F012-GQ	C8051F005DK
32K	2304	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit 2-Ch.	2	—	±20%	25	64-TQFP	336-1194-ND	14.45	11.65	8.98	C8051F015-GQ	C8051F005DK
32K	2304	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	12-Bit 2-Ch.	2	—	±20%	25	48-TQFP	336-1195-ND	14.21	11.47	8.84	C8051F016-GQ	C8051F005DK
32K	2304	8	4	5	UART, SMBus, SPI	10-Bit, 4-Ch., 100ksps	—	12-Bit 2-Ch.	1	—	±20%	25	32-LQFP	336-1196-ND	14.06	11.33	8.74	C8051F017-GQ	C8051F005DK
16K	1280	32	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	—	±20%	25	64-TQFP	336-1197-ND	11.66	9.41	7.25	C8051F018-GQ	C8051F005DK
16K	1280	16	4	5	UART, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	—	±20%	25	48-TQFP	336-1198-ND	11.23	9.06	6.99	C8051F019-GQ	C8051F005DK
64K	4352	64	5	5	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±20%	25	100-TQFP	336-1199-ND	20.18	16.28	12.76	C8051F020-GQ	C8051F020DK

* For Tape and Reel part number, change the 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing.

(Continued)

C8051F High Performance Mixed-Signal MCUs *(Cont.)*

Precision Mixed-Signal Microcontrollers; Full-Featured MCUs with a Supercharged 8051 CPU *(Cont.)*

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	ADC2	DAC	Comp.	Other	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Cut Tape Price Each			Silicon Labs Part No.	Development Kit Part No.
															1	25	100		
64K	4352	32	5	5	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±20%	25	64-TQFP	336-1201-ND	19.46	15.70	12.31	C8051F021-GQ	C8051F020DK
64K	4352	64	5	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±20%	25	100-TQFP	336-1202-ND	16.05	12.95	10.15	C8051F022-GQ	C8051F020DK
64K	4352	32	5	5	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±20%	25	64-TQFP	336-1203-ND	14.90	12.03	9.43	C8051F023-GQ	C8051F020DK
64K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1218-ND	14.42	11.10	9.17	C8051F064-GQ	C8051F060DK
64K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1220-ND	13.97	10.75	8.90	C8051F065-GQ	C8051F060DK
32K	4352	59	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	100-TQFP	336-1221-ND	13.43	10.34	8.66	C8051F066-GQ	C8051F060DK
32K	4352	24	5	6	2 UARTs, SMBus, SPI	16-Bit, 2-Ch., 1Msps	—	—	3	DMA	±2%	25	64-TQFP	336-1222-ND	13.07	10.06	8.31	C8051F067-GQ	C8051F060DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1223-ND	24.30	19.60	15.63	C8051F120-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1225-ND	23.54	18.98	15.14	C8051F121-GQ	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	100-TQFP	336-1226-ND	22.52	18.17	14.49	C8051F122-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	16x16 MAC	±2%	100	64-TQFP	336-1227-ND	21.77	17.57	14.01	C8051F123-GQ	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±2%	50	100-TQFP	336-1228-ND	21.32	17.20	13.71	C8051F124-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	12-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±2%	50	64-TQFP	336-1229-ND	20.52	16.55	13.20	C8051F125-GQ	C8051F120DK
128K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±2%	50	100-TQFP	336-1230-ND	19.54	15.77	12.58	C8051F126-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	8-Bit, 8-Ch., 500ksps	12-Bit 2-Ch.	2	—	±2%	50	64-TQFP	336-1231-ND	18.79	15.16	12.09	C8051F127-GQ	C8051F120DK
1285K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	100-TQFP	336-1232-ND	18.09	15.60	12.21	C8051F130-GQ	C8051F120DK
128K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	64-TQFP	336-1233-ND	17.35	14.96	11.71	C8051F131-GQ	C8051F120DK
64K	8448	64	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	100-TQFP	336-1234-ND	15.13	13.05	10.21	C8051F132-GQ	C8051F120DK
64K	8448	32	5	6	2 UARTs, SMBus, SPI	10-Bit, 8-Ch., 100ksps	—	—	2	16x16 MAC	±2%	100	64-TQFP	336-1235-ND	14.41	12.43	9.71	C8051F133-GQ	C8051F120DK
16K	1280	21	4	5	UART, SMBus, SPI	10-Bit, 13-Ch. 200ksps	—	—	2	—	±2%	25	24-QFN	336-1281-5-ND ***NEW!***	3.75	3.06	2.71	C8051F316-GM	C8051F310DK
16K	1280	21	4	5	UART, SMBus, SPI	—	—	—	2	—	±2%	25	24-QFN	336-1282-5-ND ***NEW!***	3.33	2.72	2.40	C8051F317-GM	C8051F310DK
16K	1536	15	2	—	USB 2.0, UART	—	—	—	—	Seperate I/O	±1.5%	25	28-QFN	336-1296-5-ND ***NEW!***	3.96	3.57	2.34	C8051F326-GM	C8051F326DK
16K	1536	15	2	—	USB 2.0, UART	—	—	—	—	Fixed I/O	±1.5%	25	28-QFN	336-1297-5-ND ***NEW!***	3.96	3.57	2.34	C8051F327-GM	C8051F326DK
8K	768	17	4	3	UART, SMBus, SPI	24-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	32-LQFP	336-1270-ND	7.82	6.69	4.73	C8051F350-GQ	C8051F350DK
8K	768	17	4	3	UART, SMBus, SPI	24-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	28-MLP	336-1271-ND	6.40	5.48	3.89	C8051F351-GM	C8051F350DK
8K	768	17	4	3	UART, SMBus, SPI	16-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	32-LQFP	336-1272-ND	5.79	4.95	3.50	C8051F352-GQ	C8051F350DK
8K	256	17	4	3	UART, SMBus, SPI	16-Bit, 8-Ch., 1ksps	—	8-Bit 2-Ch.	1	—	±2%	50	28-MLP	336-1273-ND	4.86	4.15	2.93	C8051F353-GM	C8051F350DK

* For Tape and Reel part number, change the 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing.

USB Microcontrollers Integrated USB 2.0 Function Controller

The USB microcontroller family features an on-board universal serial bus (USB) 2.0 function controller with integrated transceiver and on-chip clock recovery. No resistors, crystal, regulator, EEPROM or other external components are required. On-chip digital resources include a pipelined 25 MIPS, 8051 CPU with 16kB Flash and UART, SMBus and SPI serial interfaces. On-chip analog features include a multi-channel 10-bit ADC, voltage reference, oscillator, comparators and a temperature sensor. Available in a 32-pin LQFP or a 28-pin MLP (5x5mm), these devices provide a single-chip solution for embedded USB applications.

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	Comp.	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Cut Tape Price Each			Silicon Labs Part No.	Development Kit Part No.
												1	25	100		
16K	2304	21	4	5	USB 2.0, UART, SMBus, SPI	10-Bit, 13-Ch. 200ksps	2	±1.5%	25	28-MLP	336-1067-1-ND*	7.85	5.62	4.57	C8051F321R	C8051F320DK
RoHS Compliant																
16K	2304	25	4	5	USB 2.0, UART, SMBus, SPI	10-Bit, 17-Ch. 200ksps	2	±1.5%	25	32-LQFP	336-1259-ND	7.41	5.98	4.09	C8051F320-GQ	C8051F320DK
16K	2304	25	4	5	USB 2.0, UART, SMBus, SPI	10-Bit, 13-Ch. 200ksps	2	±1.5%	25	28-MLP	336-1261-ND	6.33	5.11	3.49	C8051F321-GM	C8051F320DK
64K	5376	40	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17Ch., 200ksps	2	±1.5%	48	48-TQFP	336-1298-ND ***NEW!***	9.98	8.99	5.89	C8051F340-GQ	C8051F340DK
32K	3328	40	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17Ch., 200ksps	2	±1.5%	48	48-TQFP	336-1299-ND ***NEW!***	8.90	8.02	5.25	C8051F341-GQ	C8051F340DK
64K	5376	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17Ch., 200ksps	2	±1.5%	48	32-LQFP	336-1300-ND ***NEW!***	9.68	8.71	5.71	C8051F342-GQ	C8051F340DK
32K	3328	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17Ch., 200ksps	2	±1.5%	48	32-LQFP	336-1301-ND ***NEW!***	8.42	7.58	4.96	C8051F343-GQ	C8051F343DK
64K	5376	40	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17Ch., 200ksps	2	±1.5%	25	48-TQFP	336-1302-ND ***NEW!***	9.68	8.71	5.71	C8051F344-GQ	C8051F343DK
32K	3328	40	4	5	USB 2.0, SPI, 2UART, SMBus	10-Bit, 17Ch., 200ksps	2	±1.5%	25	48-TQFP	336-1303-ND ***NEW!***	8.42	7.58	4.96	C8051F345-GQ	C8051F343DK
64K	5376	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17Ch., 200ksps	2	±1.5%	25	32-LQFP	336-1304-ND ***NEW!***	9.18	8.27	5.42	C8051F346-GQ	C8051F343DK
32K	3328	25	4	5	USB 2.0, SPI, UART, SMBus	10-Bit, 17Ch., 200ksps	2	±1.5%	25	32-LQFP	336-1305-ND ***NEW!***	7.74	6.97	4.56	C8051F347-GQ	C8051F347DK

* For Tape and Reel part number, change the 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing.

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General Purpose Microcontrollers Outstanding Value for Comprehensive MCUs

The General Purpose microcontroller family offers outstanding value and performance for embedded control applications. Each device features a 25MIPS pipelined 8051 CPU with 8kB Flash, UART and SPI serial interfaces, internal oscillator and numerous digital I/O options. On-chip analog features include 32-channel, 12-bit or 8-bit ADC and two comparators. Development tools are easy to use and come complete with all of the hardware and software needed to design complex electronics systems on a standard Windows PC.

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	Serial Buses	ADC1	Comp.	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Cut Tape Price Each			Silicon Labs Part No.	Development Kit Part No.
											1	25	100		
8K	1280	32	3	UART, SPI	12-Bit, 32-Ch. 100ksps	2	±20%	25	48-TQFP	336-1036-1-ND*	6.83	4.92	3.91	C8051F206R	C8051F206DK
8K	256	32	3	UART, SPI	8-Bit, 32-Ch. 100ksps	2	±20%	25	48-TQFP	336-1008-1-ND*	5.64	4.06	3.23	C8051F220R	C8051F226DK
8K	256	22	3	UART, SPI	8-Bit, 32-Ch. 100ksps	2	±20%	25	32-LQFP	336-1009-1-ND*	5.03	3.62	2.87	C8051F221R	C8051F226DK
8K	1280	32	3	UART, SPI	8-Bit, 32-Ch. 100ksps	2	20%	25	48-TQFP	336-1010-1-ND*	5.95	4.29	3.40	C8051F226R	C8051F226DK
8K	256	32	3	UART, SPI	—	2	±20%	25	48-TQFP	336-1011-1-ND*	5.31	3.82	3.04	C8051F230R	C8051F226DK
8K	256	22	3	UART, SPI	—	2	±20%	25	32-LQFP	336-1012-1-ND*	4.80	3.46	2.74	C8051F231R	C8051F226DK

* For Tape and Reel part number, change the 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing.

Small Form Factor Microcontrollers, High-Performance MCU in a Tiny Package

The Small Form Factor family is optimized for space-constrained, low-power, low-cost applications in consumer, industrial, communications and automotive markets. Development is quick and easy due to low-cost, professional development tools and in system debug. ***Features:*** **• C8051F311, C8051F300, C8051F302, C8051F31x:** Temperature Sensor **• C8051F330 and C8051F332:** Temperature Sensor and VREF

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	DAC	Comp.	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Cut Tape Price Each			Silicon Labs Part No.	Development Kit Part No.
													1	25	100		
8K	256	8	3	3	UART, SMBus	8-Bit, 8-Ch., 500ksps	—	1	±2%	25	14-Dip	336-1050-5-ND§	6.60	—	—	C8051F300P	C8051F300DK
8K	256	8	3	3	UART, SMBus	—	—	1	±2%	25	11-MLP	336-1044-1-ND*	3.56	2.55	2.04	C8051F301R	C8051F300DK
8K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1046-1-ND*	3.37	2.41	1.93	C8051F303R	C8051F300DK
4K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1063-1-ND*	3.01	2.15	1.72	C8051F304R	C8051F300DK
2K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1064-1-ND*	2.91	2.08	1.67	C8051F305R	C8051F300DK
16K	1280	25	4	5	UART, SPI, SMBus	10-Bit, 17-Ch., 200ksps	—	2	±2%	25	28-MLP	336-1057-1-ND*	6.43	4.60	3.67	C8051F311R	C8051F310DK
8K	1280	29	4	5	UART, SPI, SMBus	10-Bit, 21-Ch., 200ksps	—	2	±2%	25	32-LQFP	336-1151-ND	4.68	3.97	3.46	C8051F312	C8051F310DK
8K	1280	25	4	5	UART, SPI, SMBus	10-Bit, 17-Ch., 200ksps	—	2	±2%	25	28-MLP	336-1152-ND	4.34	3.68	3.20	C8051F313	C8051F310DK
8K	1280	29	4	5	UART, SPI, SMBus	—	—	2	±2%	25	32-LQFP	336-1153-ND	3.96	3.36	2.92	C8051F314	C8051F310DK
RoHS Compliant																	
8K	1280	32	3	—	UART, SPI	12-Bit, 32-Ch., 100ksps	—	2	±20%	25	48-TQFP	336-1236-ND	4.36	3.97	3.12	C8051F206-GQ	C8051F206DK
8K	256	32	3	—	UART, SPI	8-Bit, 32-Ch., 100ksps	—	2	±20%	25	48-TQFP	336-1238-ND	4.06	3.28	2.57	C8051F220-GQ	C8051F226DK
8K	256	22	3	—	UART, SPI	8-Bit, 32-Ch., 100ksps	—	2	±20%	25	32-LQFP	336-1239-ND	3.61	2.92	2.29	C8051F221-GQ	C8051F226DK
8K	1280	32	3	—	UART, SPI	8-Bit, 32-Ch., 100ksps	—	2	±20%	25	48-TQFP	336-1240-ND	4.28	3.45	2.71	C8051F226-GQ	C8051F226DK
8K	256	32	3	—	UART, SPI	—	—	2	±20%	25	48-TQFP	336-1242-ND	3.82	3.08	2.42	C8051F230-GQ	C8051F226DK
8K	256	22	3	—	UART, SPI	—	—	2	±20%	25	32-LQFP	336-1243-ND	3.44	2.78	2.18	C8051F231-GQ	C8051F226DK
8K	1280	32	3	—	UART, SPI	—	—	2	±20%	25	48-TQFP	336-1244-ND	3.99	3.21	2.53	C8051F236-GQ	C8051F226DK
8K	256	8	3	3	UART, SMBus	8-Bit, 8-Ch., 500ksps	—	1	±2%	25	11-MLP	336-1245-ND	3.18	2.57	1.76	C8051F300-GM	C8051F300DK
8K	256	8	3	3	UART, SMBus	—	—	1	±2%	25	11-MLP	336-1247-ND	3.02	2.44	1.67	C8051F301-GM	C8051F300DK
8K	256	8	3	3	UART, SMBus	8-Bit, 8-Ch., 500ksps	—	1	±20%	25	11-MLP	336-1248-ND	2.97	2.40	1.64	C8051F302-GM	C8051F300DK
8K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1249-ND	2.86	2.31	1.58	C8051F303-GM	C8051F300DK
4K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1250-ND	2.54	2.06	1.41	C8051F304-GM	C8051F300DK
2K	256	8	3	3	UART, SMBus	—	—	1	±20%	25	11-MLP	336-1251-ND	2.48	2.00	1.37	C8051F305-GM	C8051F300DK
16K	1280	29	4	5	UART, SMBus, SPI	10-Bit, 21-Ch., 200ksps	—	2	±2%	25	32-LQFP	336-1252-ND	6.07	4.91	3.37	C8051F310-GQ	C8051F310DK
16K	1280	25	4	5	UART, SMBus, SPI	10-Bit, 17-Ch., 200ksps	—	2	±2%	25	28-MLP	336-1254-ND	5.44	4.39	3.01	C8051F311-GM	C8051F310DK
8K	1280	29	4	5	UART, SMBus, SPI	10-Bit, 21-Ch., 200ksps	—	2	±2%	25	32-LQFP	336-1255-ND	4.44	3.77	2.62	C8051F312-GQ	C8051F310DK
8K	1280	25	4	5	UART, SMBus, SPI	10-Bit, 17-Ch., 200ksps	—	2	±2%	25	28-MLP	336-1256-ND	4.12	3.50	2.44	C8051F313-GM	C8051F310DK
8K	1280	29	4	5	UART, SMBus, SPI	—	—	2	±2%	25	32-LQFP	336-1257-ND	3.76	3.19	2.20	C8051F314-GQ	C8051F310DK
8K	1280	25	4	5	UART, SMBus, SPI	—	—	2	±2%	25	28-MLP	336-1258-ND	3.49	2.97	2.06	C8051F315-GM	C8051F310DK
8K	768	17	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	10-Bit 1-Ch.	1	±2%	25	20-MLP	336-1262-ND	4.53	3.66	2.50	C8051F330-GM	C8051F330DK
8K	768	17	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	10-Bit 1-Ch.	1	±2%	25	20-DIP	336-1263-ND	4.96	4.01	2.73	C8051F330-GP	C8051F330DK
8K	768	17	4	3	UART, SMBus, SPI	—	—	1	±2%	25	20-MLP	336-1265-ND	4.05	3.27	2.24	C8051F331-GM	C8051F330DK
4K	768	17	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	—	1	±2%	25	20-MLP	336-1266-ND	3.14	2.66	1.87	C8051F332-GM	C8051F330DK
4K	768	17	4	3	UART, SMBus, SPI	—	—	1	±2%	25	20-MLP	336-1267-ND	2.88	2.45	1.71	C8051F333-GM	C8051F330DK

* For Tape and Reel part number, change the 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing. § Dip version for development purposes.

(Continued)

C8051F High Performance Mixed-Signal MCUs *(Cont.)*

Small Form Factor Microcontrollers, High-Performance MCU in a Tiny Package *(Cont.)*

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	DAC	Comp.	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Cut Tape Price Each			Silicon Labs Part No.	Development Kit Part No.
													1	25	100		
2K	768	17	4	3	UART, SMBus, SPI	10-Bit, 16-Ch., 200ksps	—	1	±2%	25	20-MLP	336-1268-ND	2.67	2.27	1.59	C8051F334-GM	C8051F330DK
2K	768	17	4	3	UART, SMBus, SPI	—	—	1	±2%	25	20-MLP	336-1269-ND	2.39	2.03	1.42	C8051F335-GM	C8051F330DK
32K	2368	24	4	6	UART, SPI SMBus/I^{2}C	12-Bit, 8-Ch. 200ksps	12-Bit, 2Ch.	2	±2%	50	32-LQFP	336-1318-ND ***NEW!***	8.90	6.31	5.81	C8051F410-GQ	C8051F410DK
32K	2368	20	4	6	UART, SPI SMBus/I^{2}C	12-Bit, 8-Ch. 200ksps	12-Bit, 2Ch.	2	±2%	50	28-QFN	336-1309-ND ***NEW!***	7.46	5.14	4.67	C8051F411-GM	C8051F410DK
16K	2368	24	4	6	UART, SPI SMBus/I^{2}C	12-Bit, 8-Ch. 200ksps	12-Bit, 2Ch.	2	±2%	50	32-LQFP	336-1310-ND ***NEW!***	8.40	5.71	5.25	C8051F412-GQ	C8051F410DK
16K	2368	20	4	6	UART, SPI SMBus/I^{2}C	12-Bit, 8-Ch. 200ksps	12-Bit, 2Ch.	2	±2%	50	28-QFN	336-1311-ND ***NEW!***	7.23	4.92	4.34	C8051F413-GM	C8051F410DK

* For Tape and Reel part number, change the 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing. § Dip version for development purposes.

CAN Interface Microcontrollers — MCUs with Integrated CAN 2.0B Controller

Each CAN MCU features a 25 MIPS pipelined 8051 CPU, an integrated CAN 2.0B controller, 64kB of Flash, 4kB of SRAM, external memory interface and numerous digital I/O options. Dual UARTs, SMBus and SPI serial interfaces and on-chip analog capabilities including ADC, DAC, voltage reference, internal oscillator and temperature sensor make these products an ideal solution for industrial control and automotive applications.
Features: • Ext. Memory Interface, Temperature Sensor, VREF

Flash Mem. (Bytes)	RAM (Bytes)	Digital Port I/O Pins	Timers (16-Bit)	PCA Chnls	Serial Buses	ADC1	ADC2	DAC	Comp.	Other	Internal Osc	MIPS (peak)	Package	Digi-Key Part No.	Cut Tape Price Each			Silicon Labs Part No.	Development Kit Part No.
															1	25	100		
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	100-TQFP	336-1053-1-ND*	18.86	13.57	10.77	C8051F042R	C8051F040DK
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1156-ND	8.75	7.66	6.46	C8051F044	C8051F040DK
32K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1158-ND	10.13	8.71	6.50	C8051F046	C8051F040DK
32K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	64-TQFP	336-1159-ND	9.54	8.15	6.12	C8051F047	C8051F040DK
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1073-1-ND*	20.60	15.85	13.21	C8051F061R	C8051F060DK
64K	4352	59	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	100-TQFP	336-1074-1-ND*	19.24	14.81	12.34	C8051F062R	C8051F060DK
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1075-1-ND*	18.72	14.41	12.01	C8051F063R	C8051F060DK
RoHS Compliant																			
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	12-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	100-TQFP	336-1204-ND	16.26	13.11	9.26	C8051F040-GQ	C8051F040DK
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	12-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	64-TQFP	336-1206-ND	15.57	12.56	8.91	C8051F041-GQ	C8051F040DK
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	100-TQFP	336-1207-ND	15.28	12.33	8.75	C8051F042-GQ	C8051F040DK
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	8-Bit, 8-Ch. 500ksps	12-Bit, 2-Ch.	3	±60V PGA	±2%	25	64-TQFP	336-1208-ND	13.35	10.77	7.63	C8051F043-GQ	C8051F040DK
64K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1209-ND	10.21	7.85	6.45	C8051F044-GQ	C8051F040DK
64K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	64-TQFP	336-1210-ND	9.77	7.52	6.11	C8051F045-GQ	C8051F040DK
32K	4352	64	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	100-TQFP	336-1211-ND	9.63	7.41	6.06	C8051F046-GQ	C8051F040DK
32K	4352	32	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	10-Bit, 13-Ch. 100ksps	—	—	3	±60V PGA	±2%	25	64-TQFP	336-1212-ND	9.07	6.98	5.67	C8051F047-GQ	C8051F040DK
64K	4352	59	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	100-TQFP	336-1213-ND	17.78	15.46	12.74	C8051F060-GQ	C8051F060DK
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1215-ND	16.15	14.06	11.59	C8051F061-GQ	C8051F060DK
64K	4352	59	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	100-TQFP	336-1216-ND	15.10	13.13	10.83	C8051F062-GQ	C8051F060DK
64K	4352	24	5	6	CAN2.0B, 2 UARTs, SMBus, SPI	16-Bit, 2-Ch. 1Msps	10-Bit, 8-Ch. 200ksps	12-Bit, 2-Ch.	3	DMA	±2%	25	64-TQFP	336-1217-ND	14.70	12.79	10.54	C8051F063-GQ	C8051F060DK

* For Tape and Reel part number, change the 1-ND to 2-ND. Please call Digi-Key for Tape and Reel Pricing.

(Continued)

Microcontroller Development Tools

Development Kits:

- Complete development/prototyping system
- Prototyping/demonstration board
- In-system Flash programming
- In-circuit debugging
- MCU configuration wizard

IDE:

- Source code editor, project manager
- Flash programmer
- Supports full-speed, non-intrusive in-circuit debug logic
- Real-time breakpoints, source-level debug
- Conditional memory watchpoints
- Memory and register inspect/modify
- Single-step and animated execution modes
- Variable watch window

Digi-Key Part No.	Price Each	Development Kit Part No.
336-1083-ND	99.00	C8051F350DK
336-1188-ND	69.00	C8051F005DK
336-1200-ND	79.00	C8051F020DK
336-1205-ND	179.00	C8051F040DK
336-1214-ND	179.00	C8051F060DK
336-1219-ND	24.95	C8051F064EK
336-1224-ND	99.00	C8051F120DK
336-1237-ND	69.00	C8051F206DK
336-1241-ND	69.00	C8051F226DK

Digi-Key Part No.	Price Each	Development Kit Part No.
336-1246-ND	69.00	C8051F300DK
336-1253-ND	69.00	C8051F310DK
336-1260-ND	99.00	C8051F320DK
336-1306-ND ***NEW!***	99.00	C8051F326DK
336-1264-ND	69.00	C8051F330DK
336-1307-ND ***NEW!***	99.00	C8051F340DK
336-1314-ND ***NEW!***	99.00	C8051F410DK
336-1317-ND ***NEW!***	29.00	C8051F411EK

Description	Digi-Key Part No.	Price Each	Development Kit Part No.
USB Debug Adapter	336-1182-ND	35.00	DEBUGADPTR1-USB
ToolStick User's Guide	336-1278-ND ***NEW!***	11.63	TOOLSTICK-EK
Wireless Voice Transceiver Reference Design Kit	336-1294-ND ***NEW!***	149.00	WL-TRANSCVR-RD
Voice Recorder Reference Design Kit	336-1315-ND ***NEW!***	49.00	VOICE-RECORD-RD

C

Single-Chip USB to UART Bridge

The CP210x is a single-chip USB to UART bridge that converts data traffic between USB and UART formats. The chip includes a complete USB 2.0 full-speed function controller, bridge control logic and a UART interface with transmit/receive buffers and modem handshake signals.

The device also features on-board EEPROM, a voltage regulator, a USB transceiver and an integrated internal oscillator, eliminating external components generally required in USB applications. System development is further simplified by the CP210xEK evaluation kit, which includes a complete USB to RS-232 evaluation board and royalty-free device drivers for PC and Macintosh platforms.

Description	Digi-Key Part No.	Price Each	Development Kit Part No.
Single-Chip USB to UART Bridge	336-1161-ND	29.00	CP2102EK
Evaluation Kit for CP2103 USB to UART Bridge Chip	336-1163-ND	29.00	CP2103EK
Evaluation Kit for CP2201 Ethernet Controller	336-1316-ND ***NEW!***	20.00	CP2201EK

USB 2.0 (Mbps)	EEPROM	Clock	UART Baud Rates	RX/TX Buffer	Package	Digi-Key Part No.	Cut Tape Price Each 1	25
12	512B	Internal	300bps to 921.6kbps	512B	28-MLP (5mm x 5mm)	336-1162-ND	4.30	4.10
12	1024B	Internal	300bps to 921.6kbps	640B	28-MLP (5mm x 5mm)	336-1160-ND	4.03	3.84
12	1024B	Internal	300bps to 1Mbits	576B / 640B	28-QFN (5mm x 5mm)	336-1164-ND	4.70	4.48

NEW! Ethernet Controllers

The CP220x is a single-chip Ethernet controller containing an integrated IEEE 802.3-compliant Media Access Controller (MAC), a 10 Base-T Physical Layer (PHY), and 8 kB of non-volatile Flash memory available in either a 28-pin QFN (5 x 5mm), or 48-pin TQFP (9 x 9mm) package.

The on-chip Flash memory may be used to store user constants, web server content, or can be used as general purpose nonvolatile memory. The Flash is factory pre-programmed with a unique 48-bit MAC address stored in the last six memory locations. Having the unique MAC address stored in the CP220x often removes the necessary serialization step from the product manufacturing process of most embedded systems.

Flash (kB)	Parallel Host Interface	Parallel Host Interface Speed	LEDs	Package	Digi-Key Part No.	Cut Tape Price Each 1	25
8	8-bit Non-Multiplexed EMIF	30 Mbps	Seperate Link and Activity	48-TQFP (9mm x 9mm)	336-1312-ND	8.63	6.12
8	8-bit Multiplexed EMIF	25 Mbps	Combined Link and Activity	28-QFN (5mm x 5mm)	336-1313-ND	7.63	5.25

Wireless, Wireline and Optical Networking Solutions

SiPHY® High-Speed Transceivers:
Features: • Integrated limiting amplifier, CDR, CMU and MUX/DEMUX • Low jitter generation: <2.0 mUI$_{\text{RMS}}$ (typ OC-48) • Jitter attenuating CMU eliminates the external clean-up PLL • Low power operation

Precision Clock ICs:
Features:
• Jitter generation less than 0.3 ps$_{\text{RMS}}$ (typ OC-192) • Forward and reverse FEC clock scaling • Selectable loop filter bandwidths

Clock and Data Recovery ICs:
Features: • Multi-rate operation: OC-3/12/48, STM-1/4/16, GbE and 2.7 Gbps • Low jitter generation; low power operation • DSPLL™ technology eliminates external loop filter components

Description	Package	Digi-Key Part No.	Price Each 1	25	Silicon Labs Part No.	Evaluation Board Digi-Key Part No.	Price Each	Silicon Labs Part No.
SiPHY High-Speed Transceivers								
OC-48, STM-16 SONET/SDH Transceiver, 1:16 Deserializer and 16:1 Serializer	195-CBGA	336-1135-ND	196.46	174.22	SI5100-F-BC	336-1136-ND	350.00	SI5100-EVB
OC-48, STM-16 SONET/SDH Transceiver, 1:4 Deserializer and 4:1 Serializer	99-CBGA	336-1181-ND	85.59	81.51	SI5110-G-BC	—	—	—
OC-48, STM-16 SONET/SDH Transceiver	195-CBGA	336-1308-ND ***NEW!***	96.90	81.51	SI5100-G-BC	336-1136-ND	350.00	SI5100-EVB
Precision Clock ICs								
Precision Clock Multiplier/Regenerator, 155 MHz, 622 MHz	20-MLP	336-1139-ND	29.44	26.53	SI5310-BM	336-1140-ND	350.00	SI5310-EVB
Precision Clock Multiplier/Regenerator	20-MLP	336-1292-5-ND ***NEW!***	17.42	16.66	SI5310-GM	336-1140-ND	350.00	SI5310-EVB
SONET/SDH Precision Clock Multiplier IC, 19 MHz, 155 MHz Output	63-Ball CBGA	336-1183-ND	41.33	39.36	SI5318-G-BC	336-1179-ND	350.00	SI5318-EVB
SONET/SDH Clock Multiplier/Jitter Attenuator, 19 MHz, 155 MHz, 622 MHz Output, 15/14 Scaling	63-CBGA	336-1141-ND	104.65	91.80	SI5320-F-BC	336-1142-ND	350.00	SI5320-EVB
SONET/SDH Clock Multiplier/Jitter Attenuator, 19 MHz ~ 2.5 GHz Output, G.709 FEC and 66/64 Scaling	63-CBGA	336-1274-ND	79.72	75.93	SI5321-G-BC	336-1144-ND	350.00	SI5321-EVB
SONET/SDH Clock Multiplier/Jitter Attenuator, Auto Hitless Switching, Four Outputs at 19 MHz, 155 MHz or 622 MHz	99-CBGA	336-1280-ND ***NEW!***	95.67	91.11	SI5364-G-BC	336-1146-ND	350.00	SI5364-EVB
Clock and Data Recovery ICs								
OC-12/3, STM-4/1 SONET/SDH, 2.5V	20-MLP	336-1120-ND	24.03	16.46	SI5010-BM	336-1121-ND	350.00	SI5010-EVB
OC-12/3, STM-4/1 SONET/SDH, with Limiting Amp, 3.3V	28-MLP	336-1277-ND ***NEW!***	26.29	24.99	SI5013-D-GM	336-1123-ND	350.00	SI5013-EVB
OC-48,STM-16 SONET/SDH,2.7 Gbps, with Limiting Amp, 3.3V	28-MLP	336-1279-ND ***NEW!***	69.38	61.36	SI5017-D-GM	336-1125-ND	350.00	SI5017-EVB
OC-48, STM-16 SONET/SDH, 2.7 Gbps, 2.5V	20-MLP	336-1126-ND	62.78	55.52	SI5018-BM	336-1127-ND	500.00	SI5018-EVB
OC-48/12/3, STM-16/4/1 SONET/SDH, GbE, 2.7 Gbps, 2.5V	20-MLP	336-1128-ND ***NEW!***	78.45	69.39	SI5020-BM	336-1129-ND	500.00	SI5020-EVB
OC-48/12/3, STM-16/4/1 SONET/SDH, GbE, 2.7Gbps, with Limiting Amp, 3.3V	28-MLP	336-1276-ND ***NEW!***	86.30	76.33	SI5023-D-GM	336-1134-ND	500.00	SI5023-EVB

(Continued)

ISOmodem® Embedded Modems

Silicon Laboratories' embedded modem solutions are most feature rich, compact and flexible 2400 baud modems on the market. Available in two 16-pin SOIC packages, the Si2401 and Si2400 embedded modem solutions eliminate the need for a separate DSP data pump, modem controller, codec, isolation transformer, relay, opto-isolators and 2-4 wire hybrid.

Features:
• Simple AT command UART interface • Globally compliant line interface • Line-in-use and parallel phone intrusion detection • Caller ID detection and decode

Description	Max. Data Rate	Voice Codec	Package	System-Side Digi-Key Part No.	Price Each 1	25	Silicon Labs Part No.	Line-Side Digi-Key Part No.	Price Each 1	25	Silicon Labs Part No.
V.22bis Modem, Chipset	2400 bps	No	16-SOIC	336-1095-ND	25.02	24.11	SI2401-FS	336-1096-ND	5.94	4.80	SI3010-FS
V.22bis Modem, Chipset	2400 bps	Yes	16-SOIC	336-1093-ND	28.14	26.36	SI2400-KS	336-1094-ND	8.48	7.22	SI3015-KS

Description	Digi-Key Part No.	Price Each	Silicon Labs Part No.
Evaluation Board for the SI2400 with a UART Interface	336-1166-ND	150.00	SI2400URT-EVB
Evaluation Board for the SI2401 with a UART Interface	336-1167-ND	150.00	SI2401FS10-EVB
DTMF Decoder Kit	336-1283-ND ***NEW!***	149.00	DTMFDECODER-RD
Embedded Ethernet Development Kit	336-1284-ND ***NEW!***	119.00	ETHERNETDK
Embedded Modem Development Kit	336-1285-ND ***NEW!***	129.00	MODEMDK
V.22bis ISOmodem® with Integrated Global DAA	336-1286-5-ND ***NEW!***	5.94	SI3010-F-FS

Digital Compass Reference Design

The Digital Compass Reference Design is a practical demonstration of Silicon Laboratories' Direct Sensor Interface Technology (DSIT™).

This multi-axis, tilt-compensated electronic compass interfaces very small signals directly to the MCU with no additional instrumentation circuitry, and is based on the C8051F350 MCU, three separate axis of magnetoresistive sensing elements, and a two-axis accelerometer. The highly-integrated C8051F350 results in a single chip solution that accommodates both the sensor interface and the end-user application. The compass reference design includes a user's guide, schematics, USB cable and PC-based GUI software.

Description	Digi-Key Part No.	Price Each	Silicon Labs Part No.
Digital Compass Reference Design	336-1165-ND	72.00	F350-COMPASS-RD

ProSLIC®

Subscriber line interface circuit (SLIC), codec and battery generation functionality.

Combined with Silicon Laboratories' Si3201 linefeed integrated circuit, the Si3210 packs maximum performance and flexibility into a 1.5 inch² footprint, making it the smallest single-channel telephony interface available. The integrated battery supply continuously adapts its output voltage to minimize power and enables the entire solution to be powered from a single 3.3V or 5V supply. Software configurable features include 5 REN internal ringing up to 90 VPK, DTMF generation and decoding and a comprehensive set of telephony signaling capabilities for global operation with only one hardware solution. The Si3230 provides the same performance of the Si3201 without the integrated codec.

Description	Digi-Key Part No.	Price Each 1	25	100	Silicon Labs Part No.
Single Channel SLIC Codec	336-1287-5-ND ***NEW!***	8.10	6.84	5.51	SI3215-B-FM
ProSLIC Evaluation Board, Daughter Card	336-1169-ND	150.00	—	—	SI3210PPQX-EVB
ProSLIC Evaluation Board for SI3215	336-1288-ND ***NEW!***	150.00	—	—	SI3215PPQX-EVB

COPELAND
COMMUNICATIONS, INC.

Modems and Socket Radio

The **World Modem II**™ devices allow rapid implementation of a modem interface into numerous applications.
Features:
• Socket Modem™ compatible • 3.3V operation • Compliant with global standards • Caller ID, Call progress, and Fast Connect • Small footprint 1.045" x 2.54" • Standard and extended AT command set.

The **Socket Radio** allows rapid implementation of wireless modem capability to any application with data rates up to 33.6Kbaud. **Features:** • 3.3V operation • Socket Modem compatible • 200 foot (indoor) range • 900MHz band • FCC 15.249 compliant • AT command set • Small footprint 1.045" x 2.54" • MMCX connector (CB Version) • Integrated antenna (CA Version)

Data Rate (Baud)	Description	Digi-Key Part No.	Price Each 1	50	Copeland Part No.
		World Modem II			
2400	Serial Modem	539-1000-ND	29.81	25.84	CC-24K2-CS
56K	Serial Modem	539-1001-ND	40.88	35.43	CC-56K2-CS
56K	Serial Modem 5V Compatible	539-1006-ND	42.80	37.09	CC-56K2-CS5
56K	Serial Modem 5V Compatible	539-1007-ND	47.73	41.37	CC-92K2-CS5
56K	Serial Modem	539-1008-ND	45.81	39.71	CC-92K2-CS
2400K	Serial Modem Secure 5V Compatible	539-1009-ND ***NEW!***	30.59	26.51	CC-2401K2A-CS5
2400K	Serial Modem Secure	539-1010-ND ***NEW!***	28.67	24.85	CC-2401K2A-CS
		Socket Radio Modem			
33.6K	Radio Modem 900MHz MMCX Connector	539-1003-ND	48.43	45.50	CC-900W-CB
33.6K	Radio Modem 900MHz with Antenna	539-1005-ND	65.58	61.62	CC-900W-CA
		Development Kits			
—	World Modem II Development Kit	539-1002-ND	199.00	—	CC-WM2-EVAL
—	Socket Radio Development Kit	539-1004-ND	399.00	—	CC-SR-EVAL

Zoom™ Starter Development Kit

Low Cost Development System

Description	Digi-Key Part No.	Price Each	Logic Product Dev. Part No.
Zoom Starter Kit for LH79520	460-1000-ND	337.82	SDK-LH79520-10-3208
Zoom Starter Kit for LH7A400	460-1007-ND	393.68	SDK-LH7A400-10-6416
Card Engine for LH7A400, with 16Mb NOR Flash	460-3459-ND	295.26	CENGLH7A400-10-503HC-B
Zoom Starter Kit for LH75401	460-1016-ND	337.82	SDK-LH75401-11-0204
Zoom Starter Kit for LH7A404	460-1017-ND	399.00	SDK-LH7A404-11-6416
Card Engine for LH7A404, with 16Mb NOR Flash	460-3460-ND	306.00	CENGLH7A404-11-503HC
Zoom Starter Kit for LH79524	460-1022-ND	438.90	SDK-LH79524-10-3216
Evaluation Kit Zoom Geode for NX1500	460-1030-ND	731.50	NX-DB1500S-EVAL-KT-L
Evaluation Kit Zoom Geode for LX800	460-1031-ND	847.21	LX-DB800-EVAL-KT-L
Zoom Starter Kit for PXA270	460-1032-ND	563.92	SDK-PXA270-520-10-6432
Zoom Starter Kit for SH7727	460-1026-ND	450.87	SDK-SH7727-20
Zoom Starter Kit for SH7760	460-1027-ND	506.73	SDK-SH7760-10-6416

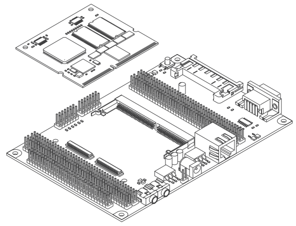

Zoom Starter Development Kit Includes: • Card Engine (LH79520, LH79524, LH75401, LH7A400, LH7A404, SH7727, SH7760) • Application board • Standard peripheral connectors supporting: Ethernet, LCD, Audio In/Out, Serial, Compact Flash (Refer to Card Engine for support of peripherals) • Power supply and adapters for UK, US, EU, Japan • Serial cable • LogicLoader™ (bootloader/monitor) in executable format • BSPs available depending on Card Engine purchased • GNU cross-development tools (compiler, linker, assembler, debugger) are included for Linux development systems

Zoom Integrated Development Kit Includes: • Network Support 2 x RJ45 Ethernet jacks (application and debug) • PC card expansion (Compact Flash Type 1(memory mode only), PCMCIA[1] - 2 slots and MMC/SD) • USB (2 host channels or 1 host and 1 client) • SPI supports either Motorola SPI™, National Semiconductor MICROWIRE™, TI SSI • Serial ports: 2 x 115.2Kbps RS-232 (dual UART 16C752) and 1 x IrDA, 115.2Kbps RS-232 debug serial port (Card engine supported) • CAN Ver 2.0b • 2 x TTL serial ports

Application Development Kits reduce product development time by allowing software teams to immediately begin application development on platforms that transfer seamlessly to production. They provide: • Product-ready Card Engine platforms support final production • Production quality device drivers and bootloader • Support for Microsoft Windows CE and CE.NET, Linux embedded OS, VxWorks, ThreadX, and MC/OSII • Vast array of on-board hardware peripherals

Zoom Display Kit

The Zoom™ Display Kits are ready to use LCD displays that can be immediately connected to the Zoom Application Development Kits. The display kits include: • Bezel • Backlight • 4 Wire Resistive Touch Panel • Cable Assemblies

Description	Sharp LCD Part No.	Digi-Key Part No.	Price Each	Logic Product Dev. Part No.	Display Format	Sharp Card Engine LH79520	LH79524	LH75401	LH7A400	LH7A404	SH7727	SH7760
3.5” QVGA (240 x 320), Color AD-TFT	LQ035Q7DB02	460-1004-ND*	484.12	LCD-3.5-QVGA-10	QVGA (240 x 320)	X	X	X	X	X		
3.5” QVGA (240 x 320), Color TFT	LQ035Q7DB02	460-1015-ND	484.12	LCD-3.5-QVGA-20	QVGA (240 x 320)	X	X	X	X	X	X	X
5.7” QVGA (320 x 240), Color TFT	LQ057Q3DC02	460-1021-ND	772.20	LCD-5.7-QVGA-10	QVGA (320 x 240)	X	X	X	X	X	X	X
6.4” VGA (640 x 480), Color TFT	LQ64D343	460-1005-ND*	903.07	LCD-6.4-VGA-10	VGA (640 x 480)	X	X		X	X	X	X
10.4” VGA (640 x 480), Color TFT	LQ10D368	460-1011-ND	948.29	LCD-10.4-VGA-10	VGA (640 x 480)	X	X		X	X	X	X
Freescale Display Cable	LCDCABLE-FREESCALE-10	460-1028-ND	79.80	—	—	—	—	—	—	—	—	—

* Freescale Development Kits require the purchase of an LCD Adapter Cable (460-1028-ND).

SHARP MICROELECTRONICS

BlueStreak MCU/SoC

The 16/32 bit BlueStreak MCU/SoCs offer higher performance than ordinary 16-bit MCU utilizing the ARM7TDMI core with 32KB of on-chip SRAM, color and grayscale LCD controller, plus three UARTs, SPI, CAN 2.0B, three 16-bit Counter/Timers, A/D Converter, Watchdog Timer and Low Voltage Detector, they are an excellent solution to speed-versus-cost concerns. Applications include GPS, PDA, Printers/Copiers, Security Control Panels, and White Goods.

The 32-bit series of BlueStreak MCU/SoCs begins with the LH795x and LH754xx, which combine a 32-bit ARM7TDMI RISC core with 8KB Cache, MMU, color LCD controller, and 32KB SRAM. Also included are a number of essential peripherals such as a DMA Controller, Serial and Parallel Interfaces, Infrared Support, Counter/Timers, Real Time Clock, Watchdog Timer, Pulse Width Modulators and an on-chip Phase Lock Loop. For more power, the LH7A40x SoCs build on this basic feature set with 80KB of SRAM, ARM9 cores and add highly-desired functionality like USB and MMC. With their high performance and integration, the 32-bit BlueStreak devices are a great choice as a basis for handheld devices like GPS, Games, PDAs, Pocket PCs, and Media Players. **Features:** • **Operating Temperature**: Industrial (-40°C ~ 85°C) • **VCC**: 1.8V • **SPI**: Yes • **WDT**: Yes • **JTAG**: Yes

Memory Size RAM Bytes	GP I/O Pins	UART	CAN	DMA	USB	Microwire	Timer/ Counters 16-bit	PWM	ADC	LCD Controller	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each	Sharp Part No.
32K	64	3 (w/IrDA)	—	4-Channel	—	Yes	4	2	—	Y (Color)	77.4	176-LQFP	425-1820-ND	14.54	LH79520N0M000B1
32K	76	3	2.0B	4-Channel	—	Yes	3	3	8-Ch, 10-Bit	Y (Gray)	70	144-TQFP	425-1860-ND	12.41	LH75400N0M100C0
32K	76	3	2.0B	4-Channel	—	Yes	3	3	8-Ch, 10-Bit	Y (Color)	70	144-LQFP	425-1861-ND	13.58	LH75401N0M100C0
32K	76	3	—	4-Channel	—	Yes	3	3	8-Ch, 10-Bit	Y (Gray)	70	144-TQFP	425-1862-ND	11.25	LH75410N0M100C0
32K	76	3	—	4-Channel	—	Yes	3	3	8-Ch, 10-Bit	Y (Color)	70	144-TQFP	425-1863-ND	12.41	LH75411N0M100C0
32K	104	3 (w/IrDA)	—	4-Channel	v2.0	Yes	3	3	10-Ch, 10 Bit	Y (Color)	77.4	208-CABGA	425-1865-ND	18.72	LH79524N0E100A0
32K	86	3 (w/IrDA)	—	4-Channel	v2.0	Yes	3	3	10-Ch, 10 Bit	Y (Color)	77.4	176-LQFP	425-1866-ND	15.90	LH79525N0M100A0
80K	60	3 (w/IrDA)	—	10-Channel	v2.0	Yes	3	2	—	Y (Color)	200	256-CABGA	425-1867-ND	19.46	LH7A400N0E000B3A
80K	64	3 (w/IrDA)	—	12-Channel	v2.0	Yes	3	2	10-Ch, 10-Bit	Y (Color)	200	324-CABGA	425-1868-ND	27.42	LH7A404N0E000B0A
80K	60	3 (w/IrDA)	—	10-Channel	v1.1	Yes	3	2	—	Y (Color)	200	256-PBGA	425-1864-ND	21.57	LH7A400N0B000B3A
80K	64	3 (w/IrDA)	—	12-Channel	v2.0	Yes	3	4	9-Ch, 10-Bit	Y (Color)	200	324-CABGA	425-2497-ND◊ ***NEW!***	27.42	LH7A404N0F000B1A

◊ ***RoHS Compliant***

SENSORY

VR Stamp™ Voice Recognition Module and Toolkit

Description	Digi-Key Part No.	Price Each	Sensory Part No.
VR Stamp Voice Recognition Module			
VR Stamp Tool Kit	VRKIT-ND	499.95	66-0110
VR Stamp Module	VRMOD-ND	39.95	60-0235

VR Stamp™ Voice Recognition Module

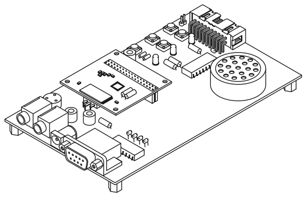

The VR Stamp is the first rapidly deployable speech module to use Sensory's proprietary Quick T2SI™ (text to speaker independent) technology, which allows developers to create working recognition sets in minutes. Multiple languages are supported, making the VR Stamp useful for products virtually anywhere in the world. Based on Sensory's RSC Family of microcontollers, the VR Stamp is a completely modularized, production ready speech recognition system that allows products to speak and hear with minimal development time and low system cost. VR Stamp simplifies the integration of speech recognition into products by combining all key components into a small 40-pin DIP footprint module. A low-noise audio channel and standardized packaging allow rapid prototyping, less debugging and shorter time to market. The VR Stamp offer 24 I/O lines, as well as connections for a power, ground, microphone, speaker and logic-level RS232 interface.

Kit Contains:

VR Stamp Toolkit CD (FluentChip™ technology library, Quick T2SI Lite, Quick Synthesis 4, documentation, drivers and demos), Phyton C Compiler (60-day trial) CD and dongle, VR Stamp™ Programming Board, 2 VR Stamp™ Modules, 120V Power Supply, Speaker and USB Cable.

Quadravox

QV400D: Prototype Programming Kit for Winbond ChipCorder Devices

System Overview:

QV400D™ provides all the software and hardware functions needed to develop complex messaging systems using Winbond's ChipCorder family of analog recording devices. Utilizes standard Windows® .wav format as input (11.025KHz, 16-Bit mono format only). **Project Software:** QV400S™ is a software package designed to unify the interface between users and various speech development systems produced by Quadravox. It consists of one executable file, QV400S1.exe (for Windows 95 or later), several DLLs (one at least for each development system), several help files, and an initialization file, QV400S1.ini (Win95 or later). **Programmer Hardware:** The speech data created by the project software may be programmed into any Winbond ChipCorder device using the QV400D Programmer Board. Separate easy-to-use ZIF sockets are provided for the ISD1000-2500 and ISD33000-4000 devices. **Power Supply:** Output voltage: 9VDC; Current: 200mA minimum, 110V AC, 60Hz input **Minimum System Requirements:** QV400D will run on any PC operating under Windows '95 or '98 • CPU Pentium 66Mhz • 8MB Ram (16MB and up preferred) • 1.5MB hard disk space • A 16-Bit sound card capable of 11.025KHz record and 16-Bit, 44.1KHz stereo playback is also needed for data acquisition.

Package Type	For Device Type	Digi-Key Part No.	Price Each
Socket Adapters for the QV400D			
28/600 DIP	ISD5008P and ISD5116P	QV400D-03A-ND	39.00
28/300 SOIC	ISD5008S and ISD5116S	QV400D-03B-ND	39.00
28-Pin TSOP	ISD5008E and ISD5116E	QV400D-03C-ND	39.00
28/300 SOIC	ISD1100S, 1200S, 1400S and 2500S	QV400D-04-ND	39.00
28/350 SOIC	ISD1100G and ISD2500G	QV400D-05-ND	39.00
28/300 SOIC	ISD33000S and ISD4000S	QV400D-06-ND	39.00
28-Pin TSOP	ISD33000E and ISD4000E	QV400D-07-ND	39.00
—	ISD33000 OR 4000 Based Module	QV400D-08-ND	19.00

Prototype Programming Kit for Winbond ChipCorder Devices

Kit Contents:

- 2 Floppy Disks containing all QV400D software and documentation (Help file)
- 1 Programmer Board with two empty ZIF sockets
- 1 Audio Cable (6 ft. shielded, 1/8" stereo miniplug at both ends)
- 1 Power Supply: 9V DC 300mA, 2.1mm female plug, center positive

QV400D-ND **$249.00**

Single-Chip Voice Record/Playback Devices

General Description:
Winbond's patented ChipCorder® technology is a revolutionary multilevel technique to record and play back sound on a single chip. The advanced technology provides natural sound reproduction, in a cost-effective device that retains stored messages in the event of power loss or battery replacement.

The technology, based on a unique multilevel storage approach, stores multiple voltage levels into previously binary, two level EEPROM memory cells. Unlike traditional voice solutions whereby voice is digitized, the Winbond approach stores analog signals directly into single cells as one of over 250 levels.

All ChipCorder products integrate the oscillator, microphone pre-amplifier, automatic gain control, anti-aliasing filter, smoothing filter, and speaker amplifier on-chip to achieve a complete "system on a chip." Only a microphone, speaker, power source, and a few passive components are needed to implement a complete record/playback function.

ISD1100 Series: **Description:** The ISD1100 has been designed for low-cost consumer applications where a bare die is mounted directly to the PC board. The inclusion of pull-up or pull-down resistors on the input pins minimizes the number of signals used and the number of external components or bonding wires required. **Features:** • Pushbutton interface • 5 volt operating range • Automatic power-down

ISD1200 Series: **Description:** The ISD1200 offers a simple push-button interface coupled with the automatic power-down feature. It offers full addressability to handle multiple messages on a single chip. It is ideal for toy applications. **Features:** • 5 volt operating range • Automatic power-down • Fully addressable to handle multiple messages

ISD1400 Series: **Description:** The ISD1400 expands on the simple push-button interface of the ISD1200, with longer storage durations of 16 and 20 seconds. It offers full addressability to handle multiple messages on a single chip and is widely used in communication and consumer applications. **Features:** • 5 volt operating range • Automatic power-down • Fully addressable to handle multiple messages

ISD2500 Series: **Description:** The ISD2500 family offers improvement in speech length up to a maximum of 90 seconds. This extends the single-chip voice solution to industrial and high-end consumer applications. This family offers sound capability for new applications such as cellular phones, answering machines, voice-response faxes, copy machines and industrial applications where voice prompting provides product differentiation for equipment and manufacturers. **Features:** • 5 volt operating range • Fully addressable to handle multiple messages • Directly cascadable for longer durations • Automatic power-down (push-button mode)

ISD400X Series: **Description:** The ISD4000 series provides high-quality, 3-volt, single-chip record/playback solutions for 2 to 4 minutes (ISD4002), 4 to 8 minutes (ISD4003), and 8 to 16 minutes (ISD4004) messaging applications. These CMOS-based devices include an on-chip oscillator, anti-aliasing filter, smoothing filter, AutoMute™ feature, audio amplifier, and high density, multilevel Flash storage array. **Features:** • Single +3 volt supply • Low-power consumption • AutoMute feature to provide background noise attenuation • Fully addressable to handle multiple messages • On-chip clock source • Microcontroller SPI or Microwire™ Serial Interface

ISD5008 Series: **Description:** The ISD5008 device is designed for use in a microprocessor- or microcontroller-based system. Address, control, and duration selection are accomplished through a Serial Peripheral Interface (SPI) or Microwire Serial Interface to minimize pin count. Recordings are stored in on-chip nonvolatile memory cells, providing zero-power message storage. Voice and audio signals are stored directly into solid-state memory in their natural, uncompressed form, providing superior quality voice and music reproduction. **Features:** • Fully-integrated solution • Low-power consumption • Single +3 volt supply • Enhanced voice features • Easy-to-use and control • High quality solution

ISD5116 Series: **Description:** The ISD5116 ChipCorder Product provides high quality, fully integrated, single-chip Record/Playback solutions for 8-16 minute messaging applications that are ideal for use in cellular phones, automotive communications, GPS/navigation systems and other portable products. **Features: Fully-integrated solution:** • Single-chip voice record/playback solution • Low-power consumption supports 2.0V and 3.0V interface logic • Enhanced voice features • Digital memory features up to 4 MB • Easy-to-use and control • High quality voice and music reproduction

Duration	Interface	Input Sample Rate (KHZ)	Filter Pass Band (KHz)	Pkg.	Digi-Key Part No.	Price Each 1	10	25	Winbond Part No.
10 Sec.	Pushbutton	6.4	2.6	28-DIP	ISD1110P-ND	5.64	4.60	3.68	ISD1110P
				28-SOIC	ISD1110S-ND	5.64	4.60	3.68	ISD1110S
12 Sec.	Pushbutton	5.3	2.2	28-DIP	ISD1212P-ND	5.06	4.14	3.32	ISD1212P
				28-SOIC	ISD1212S-ND	5.06	4.14	3.32	ISD1212S
16 Sec.	Pushbutton	8.0	3.3	28-DIP	ISD1416P-ND	7.03	5.74	4.60	ISD1416P
				28-DIP	ISD1416PY-ND§	7.03	5.74	4.60	ISD1416PY
				28-SOIC	ISD1416SY-ND§	7.03	5.74	4.60	ISD1416SY
20 Sec.	Pushbutton	6.4	2.6	28-DIP	ISD1420PY-ND§	7.03	5.74	4.60	ISD1420PY
				28-DIP	ISD1420PI-ND*	8.09	6.60	5.28	ISD1420PI
				28-SOIC	ISD1420S-ND	7.03	5.74	4.60	ISD1420S
				28-SOIC	ISD1420SY-ND§	7.03	5.74	4.60	ISD1420SY
				28-SOIC	ISD1420SI-ND*	8.09	6.60	5.28	ISD1420SI
32 Sec	Button/MCU	8.0	3.4	28-DIP	ISD2532PY-ND§	9.16	7.48	5.99	ISD2532PY
				28-SOIC	ISD2532S-ND	9.16	7.48	5.99	ISD2532S
				28-SOIC	ISD2532SY-ND§	9.16	7.48	5.99	ISD2532SY
48 Sec.	Button/MCU	5.3	2.3	28-DIP	ISD2548P-ND	9.16	7.48	5.99	ISD2548P
				28-SOIC	ISD2548S-ND	9.16	7.48	5.99	ISD2548S
1 Min.	Button/MCU	8.0	3.4	28-TSOP	ISD2560E-ND	11.98	9.78	7.83	ISD2560E
				28-DIP	ISD2560PY-ND§	11.98	9.78	7.83	ISD2560PY
				28-SOIC	ISD2560S-ND	11.98	9.78	7.83	ISD2560S
				28-SOIC	ISD2560SY-ND§	11.98	9.78	7.83	ISD2560SY
64 Sec.	Button/MCU	4.0	1.7	28-DIP	ISD2564P-ND	9.16	7.48	5.99	ISD2564P
75 Sec.	Button/MCU	6.4	2.7	28-DIP	ISD2575PY-ND§	11.98	9.78	7.83	ISD2575PY
				28-SOIC	ISD2575SY-ND§	11.98	9.78	7.83	ISD2575SY
90 Sec.	Button/MCU	5.3	2.3	28-DIP	ISD2590PY-ND§	11.98	9.78	7.83	ISD2590PY
				28-SOIC	ISD2590SY-ND§	11.98	9.78	7.83	ISD2590SY
2 Min.	Button/MCU	4.0	1.7	28-DIP	ISD25120P-ND	11.98	9.78	7.83	ISD25120P
				28-SOIC	ISD25120S-ND	11.98	9.78	7.83	ISD25120S
2 Min.	SPI/ Microwire	8.0	3.4	28-DIP	ISD4002-120PY-ND§	10.90	8.90	7.12	ISD4002-120PY
				28-SOIC	ISD4002-120SY-ND§	10.90	8.90	7.12	ISD4002-120SY
				28-TSOP	ISD4002-120E-ND	10.90	8.90	7.12	ISD4002-120E
150 Sec.	SPI/ Microwire	6.4	2.7	28-DIP	ISD4002-150P-ND	10.90	8.90	7.12	ISD4002-150P
				28-SOIC	ISD4002-150S-ND	10.90	8.90	7.12	ISD4002-150S
				28-TSOP	ISD4002-150E-ND	10.90	8.90	7.12	ISD4002-150E
3 Min.	SPI/ Microwire	5.3	2.3	28-DIP	ISD4002-180P-ND	11.13	8.90	7.12	ISD4002-180P
				28-DIP	ISD4002-180PY-ND§	10.90	8.90	7.12	ISD4002-180PY
				28-SOIC	ISD4002-180S-ND	10.90	8.90	7.12	ISD4002-180S
				28-TSOP	ISD4002-180E-ND	10.90	8.90	7.12	ISD4002-180E

Duration	Interface	Input Sample Rate (KHZ)	Filter Pass Band (KHz)	Pkg.	Digi-Key Part No.	Price Each 1	10	25	Winbond Part No.
4 Min.	SPI/ Microwire	8.0	3.4	28-DIP	ISD4003-04MPY-ND§	13.38	10.92	8.74	ISD4003-04MPY
				28-SOIC	ISD4003-04MS-ND	13.38	10.92	8.74	ISD4003-04MS
				28-SOIC	ISD4003-04MSY-ND§	13.38	10.92	8.74	ISD4003-04MSY
				28-TSOP	ISD4003-04ME-ND	13.38	10.92	8.74	ISD4003-04ME
5 Min.	SPI/ Microwire	6.4	2.7	28-DIP	ISD4003-05MP-ND	13.38	10.92	8.74	ISD4003-05MP
				28-SOIC	ISD4003-05MS-ND	13.38	10.92	8.74	ISD4003-05MS
				28-TSOP	ISD4003-05ME-ND	13.38	10.92	8.74	ISD4003-05ME
6 Min.	SPI/ Microwire	5.3	2.3	28 DIP	ISD4003-06MP-ND	13.38	10.92	8.74	ISD4003-06MP
				28-SOIC	ISD4003-06MS-ND	13.38	10.92	8.74	ISD4003-06MS
				28-TSOP	ISD4003-06ME-ND	13.38	10.92	8.74	ISD4003-06ME
8 Min.	SPI/ Microwire	4.0	1.7	28-DIP	ISD4003-08MP-ND	13.38	10.92	8.74	ISD4003-08MP
				28-SOIC	ISD4003-08MS-ND	13.38	10.92	8.74	ISD4003-08MS
				28-TSOP	ISD4003-08ME-ND	13.38	10.92	8.74	ISD4003-08ME
8 Min.	SPI/ Microwire	8.0	3.4	28-DIP	ISD4004-08MPY-ND§	19.18	15.66	12.53	ISD4004-08MPY
				28-SOIC	ISD4004-08MS-ND	19.18	15.66	12.53	ISD4004-08MS
				28-SOIC	ISD4004-08MSY-ND§	19.18	15.66	12.53	ISD4004-08MSY
				28-TSOP	ISD4004-08ME-ND	12.53	11.75	10.97	ISD4004-08ME
				28-TSOP	ISD4004-08MEY-ND§	19.18	15.66	12.53	ISD4004-08MEY
10 Min.	SPI/ Microwire	6.4	2.7	28-DIP	ISD4004-10MP-ND	19.18	15.66	12.53	ISD4004-10MP
				28-SOIC	ISD4004-10MS-ND	19.18	15.66	12.53	ISD4004-10MS
				28-TSOP	ISD4004-10ME-ND	19.18	15.66	12.53	ISD4004-10ME
				28-TSOP	ISD4004-10MEY-ND§	19.18	15.66	12.53	ISD4004-10MEY
12 Min.	SPI/ Microwire	5.3	2.3	28-DIP	ISD4004-12MP-ND	19.18	15.66	12.53	ISD4004-12MP
				28-SOIC	ISD4004-12MS-ND	19.18	15.66	12.53	ISD4004-12MS
				28-TSOP	ISD4004-12ME-ND	19.18	15.66	12.53	ISD4004-12ME
16 Min.	SPI/ Microwire	4.0	1.7	28-DIP	ISD4004-16MPY-ND§	19.18	15.66	12.53	ISD4004-16MPY
				28-SOIC	ISD4004-16MSY-ND§	19.18	15.66	12.53	ISD4004-16MSY
				28-TSOP	ISD4004-16ME-ND	19.18	15.66	12.53	ISD4004-16ME
4-8 Min.	SPI/ Microwire	4.0-8.0	1.7-3.4	28-DIP	ISD5008P-ND	17.25	14.08	11.27	ISD5008P
				28-SOIC	ISD5008S-ND	17.25	14.08	11.27	ISD5008S
				28-TSOP	ISD5008E-ND	16.56	13.52	10.82	ISD5008E
8-16 Min.	I^{2}C	4.0-8.0	1.7-3.4	28-DIP	ISD5116PY-ND§	19.67	16.06	12.85	ISD5116PY
				28-SOIC	ISD5116SY-ND§	19.67	16.06	12.85	ISD5116SY
				28-TSOP	ISD5116E-ND	19.67	16.06	12.85	ISD5116E
8-16 Min.	I^{2}C	4.0-8.0	1.8-3.7	28-DIP	ISD5216P-ND	19.36	15.80	12.64	ISD5216P

*Industrial § ***RoHS Compliant***

Single and Dual Channel Voiceband CODEC

Winbond's family of voice CODEC solutions addresses the market requirements for voice-grade A/D and D/A conversion at the lowest possible cost. In order to digitize and reconstruct the cleanest voice signals possible, the single channel and dual channel CODEC's were designed to the recommendations of the industry G.712 filters specification and the μ-Law and A-Law G.711 companding specifications.

Features:

- A-Law/μ-Law companding according to ITU-T G.711 by pin selection
- A/D and D/A filter according to ITU-T G.712
- Lowest power dissipation in the industry in standby and powered modes
- Four PCM Digital Interface Clock Formats - Short Frame Sync, Long FrameSync, IDL and GCI
- Fully-Differential Analog Circuit Design for lowest noise
- On-Chip Precision Reference Voltage
- Industrial Temperature Range: -40°C ~ 85°C

Applications:

- PABX/SOHO systems
- ISDN equipment
- Modems/PC cards
- Fiber-to-the-curb equipment
- Enterprise phones
- VOIP and Internet phones
- Telematics
- Speaker phones
- Digital telephony systems

Description	Package	Digi-Key Part No.	Price Each	Winbond Part No.
		IC Voiceband		
Single, 5V	20-DIP	W6810IE-ND	3.48	W6810IE
Single, 5V	20-SSOP	W6810IR-ND	3.63	W6810IR
Single, 5V	20-SOP	W6810IS-ND	3.48	W6810IS
Single, 5V	20-TSSOP	W6810IW-ND	3.63	W6810IW
Single, 3/5V	24-DIP	W6811IE-ND	3.68	W6811IE
Single, 3/5V	24-SSOP	W6811IR-ND	3.87	W6811IR
Single, 3/5V	24-SOP	W6811IS-ND	3.68	W6811IS
Single, 3/5V	24-TSSOP	W6811IW-ND	3.87	W6811IW
Single, 3V	20-SSOP	W681310R-ND	3.63	W681310R
Single, 3V	20-SOP	W681310S-ND	3.48	W681310S
Single, 5V	20-SOP	W681511S-ND	2.94	W681511S
Single, 5V	20-SSOP	W681512R-ND	3.63	W681512R
Single, 5V	20-SOP	W681512S-ND	3.48	W681512S
Single, 5V	20-SOP	W681513S-ND	3.23	W681513S
Dual, 3V	20-SSOP	W682310R-ND	5.13	W682310R
Dual, 3V	24-SOP	W682310S-ND	4.88	W682310S
Dual, 5V	20-DIP	W682510E-ND	4.88	W682510E
Dual, 5V	20-SSOP	W682510R-ND	5.13	W682510R
Dual, 5V	24-SOP	W682510S-ND	4.88	W682510S
		Evaluation System		
W6810 Series		W6810ES-ND	15.00	W6810ES
W681310 Series		W681310ES-ND	15.00	W681310ES
W681512 Series		W681512ES-ND	15.00	W681512ES
		Development Kits		
W6810 Series		W6810DK-ND	133.00	W6810DK
W682310 Series		W682310DK-ND	106.40	W682310DK
W682510 Series		W682510DK-ND	106.40	W682510DK

Single-Chip Text-to-Speech Processor

The WTS701 is a high quality, fully integrated, single-chip text-to-speech solution that is ideal for use in applications such as automotive appliances, GPS/navigation systems, cellular phones and other portable products or accessories. The WTS701 product accepts ASCII (and Unicode for Mandarin) input via a SPI port and converts it to spoken audio via an analog output or digital CODEC output. Performance is specified over the industrial temperature range of -40°C ~ 85°C.

The chip can be programmed through the SPI port, allowing downloading of different languages and speaker databases.

Package size for WTS701EF/T-ND is 56-TSOP.

Description	Digi-Key Part No.	Price Each	Winbond Part No.
English Female	WTS701EF/T-ND	35.75	WTS701EF/T

PARALLAX BASIC Stamp Modules

Released Products	***Rev. D/BS1-IC***	***BS2-IC***	***BS2e-IC***	***BS2sx-IC***	***BS2p24-IC***	***BS2p40-IC***	***Javelin Stamp***
Package	PCB with Proto / 14-pin SIP	24-pin DIP	24-pin DIP	24-pin DIP	24-pin DIP	40-pin DIP	24-pin DIP
Package Size (L x W x H)	2.5” x 1.5” x .5” / 1.4” x 0.6” x 0.1”	1.2” x 0.6” x 0.4”	1.2” x 0.6” x 0.4”	1.2” x 0.6” x 0.4”	1.2” x 0.6” x 0.4”	2.1” x 0.6” x 0.4”	1.24” x 0.6” x 0.45”
Environment*	0°C ~ 70°C (32°F ~ 158°F)**	0°C ~ 70°C (32°F ~ 158°F)**	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)	0°C ~ 70°C (32°F ~ 158°F)
Microcontroller	Microchip PIC16C56c	Microchip PIC16C57c	Scenix SX28AC	Scenix SX28AC	Scenix SX48AC	Scenix SX48AC	Ubicom SX48AC
Processor Speed	4MHz	20MHz	20MHz	50MHz	20MHz Turbo	20MHz Turbo	25MHz Turbo
Program Execution Speed	~ 2,000 Instruct. / Sec.	~ 4,000 Instruct. / Sec.	~ 4,000 Instruct. / Sec.	~ 10,000 Instruct. / Sec.	~ 12,000 Instruct. / Sec.	~ 12,000 Instruct. / Sec.	~ 8,500 Instruct./ Sec.
RAM Size	16 Bytes (2 I/O, 14 Variable)	32 Bytes (6 I/O, 26 Variable)	32 Bytes (6 I/O, 26 Variable)	32 Bytes (6 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)	38 Bytes (12 I/O, 26 Variable)	32,768 Bytes
Scratch Pad RAM	N/A	N/A	64 Bytes	64 Bytes	128 Bytes	128 Bytes	N/A
EEPROM (Program) Size	256 Bytes, ~ 80 instruct.	2K Bytes, ~ 500 Instruct.	8 x 2K Bytes, ~ 4,000 instruct.	8 x 2K Bytes, ~ 4,000 Instruct.	8 x 2K Bytes, ~ 4,000 Instruct.	8 x 2K Bytes, ~ 4,000 Instruct.	32,768 Bytes
Number of I/O pins	8	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial	16 + 2 Dedicated Serial	32 + 2 Dedicated Serial	16
Voltage Requirements	5 ~ 15VDC	5 ~ 15VDC	5 ~ 12VDC	5 ~ 12VDC	5 ~ 12VDC	5 ~ 12VDC	5VDC (reg.), 6 ~ 24VDC (unreg.)
Current Draw at 5V	2mA Run / 20µA Sleep	8mA Run / 100µA Sleep	20mA Run / 100µA Sleep	60mA Run / 200µA Sleep	40mA Run / 400µA Sleep	40mA Run / 400µA Sleep	60mA Run / 13mA Sleep
Source / Sink Current per I/O	20mA / 25mA	20mA / 25mA	30mA / 30mA	30mA / 30mA	30mA / 30mA	30mA / 30mA	30mA / 30mA
Source / Sink Current per Unit	40mA / 50mA	40mA / 50mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins	60mA / 60mA per 8 I/O pins
PBASIC Commands	32	36	39	39	55	55	0 (Java)
PC Programming Interface	Parallel Port	Serial Port (9600 baud)	Serial Port (9600 baud)	Serial Port (9600 baud)	Serial Port	Serial Port	Serial Port
DOS Text Editor	STAMP.EXE	STAMP2.EXE	STAMP2E.EXE	STAMP2SX.EXE	STAMP2P.EXE	STAMP2P.EXE	N/A
Windows Text Editor	N/A	Stampw.exe (v1.04 and up)	Stampw.exe (v1.096 and up)	Stampw.exe (v1.091 and up)	Stampw.exe (v1.1 and up)	Stampw.exe (v1.1 and up)	Javelin Stamp IDE

* 70% Non-condensing Humidity ** Industrial Models Available, -40°C ~ 85°C (-40°F ~ 185°F). Order Part Number BS2I-IC-ND.

STAMP2-ND

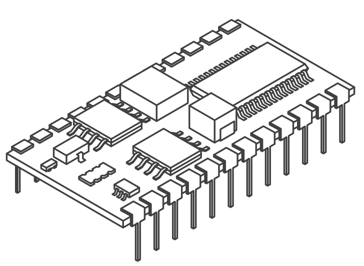

BASIC Stamp 2 (BS2-IC):

The BS2-IC is a popular module for use in hobby, educational and industrial applications. This general purpose computer is programmed in BASIC and has 16 I/O lines.

28119-ND

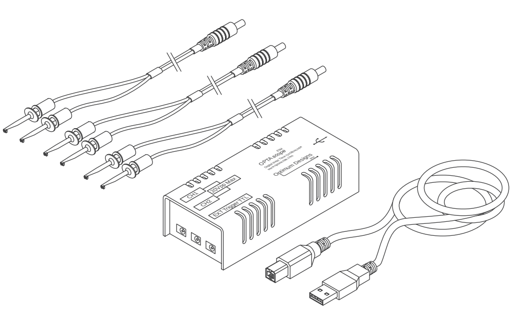

Understanding Signals Parts and Text:

This package includes a dual trace Parallax Digital Oscilloscope which connects to a PC with a USB cable (included). This oscilloscope requires no external power supply and all controls are managed through a point and click PC interface. Also included are three pairs of probes, a 144-page Understanding Signals text and the Understanding Signals Parts Kit.

Description	Digi-Key Part No.	Price Each 1	5	10	25
BASIC Stamp Modules					
BS1-IC BASIC Stamp Module	STAMP1-ND	29.00	—	26.10	24.65
BS2-IC BASIC Stamp Module	STAMP2-ND	49.00	—	44.10	41.65
BASIC Stamp 2 Industrial Module	BS2I-IC-ND	54.00	—	48.60	45.90
BASIC Stamp 2E Module	BS2E-IC-ND	54.00	—	48.60	45.90
BASIC Stamp 2SX Module	BS2SX-IC-ND	59.00	56.05	53.10	50.15
BASIC Stamp 2P24 pin Module	BS2P24-ND	79.00	75.05	71.10	67.15
BASIC Stamp 2P40 pin Module	BS2P40-ND	89.00	84.55	80.10	75.65
BASIC Stamp Javelin Module	JS1-IC-ND	89.00	84.55	80.10	—
BASIC Stamp Collection Module	020-78267-ND	199.00	—	—	—
BASIC Stamp Starter Kits					
BASIC Stamp 1 Starter Kit	27205-ND	79.00	75.05	71.10	—
BASIC Stamp 2 Starter Kit	27203-ND	119.00	113.05	107.10	—
BASIC Stamp 2OEM Module Kit	27291-ND	30.00	28.50	27.00	—
BASIC Stamp 2SX Starter Kit	27206-ND	169.00	160.55	152.10	—
Javelin Stamp Starter Kit	27237-ND	239.00	227.05	215.11	—
Board of Education Full Kit	28102-ND	99.00	—	81.18	79.20
BASIC Stamp 2P24 Professional Starter Kit	27235-ND	199.95	189.95	179.96	—
Prototype and Development Boards					
BASIC Stamp Super Carrier Board	27130-ND	19.95	—	17.96	16.96
BASIC Stamp 1 Project Board	27112-ND	29.00	—	—	—
Board of Education	28150-ND	65.00	—	53.30	52.00
BS1-IC Carrier Board	STAMP1C-ND	15.00	—	13.50	12.75
BS2-IC Carrier Board	STAMP2C-ND	24.00	—	21.60	20.40
BASIC Stamp Accessory Modules					
BASIC Stamp 1 Serial Adapter	27111-ND	4.95	—	—	—
Pocket Watch B	27962-ND	29.00	27.84	—	—
Motor Mind B	27961-ND	29.00	27.84	—	—
PWMPAL 4 Output Channels	28020-ND	29.00	—	—	—
DS2760 Thermocouple Kit	28022-ND	29.95	—	—	—
Application Kits					
Toddler Full Kit - Blue	27311-ND	249.00	—	—	—
Stache Field Programmer	27330-ND	111.38	—	98.01	—
Parallax Standard Servo Motor	900-00005-ND	12.00	11.40	10.80	—
Little Step U-Stepper Motor Controller	27938-ND	69.00	65.55	62.10	—
16 Servo Motor Controller	28023PAR-ND	39.00	37.50	—	—
BASIC Stamp 2P Plus Pack	45184-ND	69.00	55.20	—	—
Books					
Microcontroller Projects with BASIC Stamps	27952-ND	44.95	—	—	—
Microcontroller Application Cookbook	28111-ND	29.95	28.45	26.36	—
BASIC Stamp Manual Ver.2.0	27218-ND	24.95	22.46	19.91	—
Parallax CD-ROM	27000-ND	3.00	—	—	—
Stamps in Class Educational Kits†					
Understanding Signals Kit	28119-ND	149.00	—	—	—
“What's a Microcontroller?” Parts Kit and Text	28152-ND	65.00	—	58.50	—
“Earth Measurements” Parts Kit and Text	28153-ND	79.00	—	71.10	—
“Robotics!” Parts Kit and Text	28154-ND	119.00	—	107.10	—
Boe-Bot Full Kit	28132-ND	179.00	—	—	—
“Industrial Control” Parts Kit and Text	28156-ND	59.00	—	53.10	—
“Basic Analog and Digital” Parts Kit and Text	28155-ND	45.00	—	40.50	—

† Requires the Board of Education Full Kit or BASIC Stamp II Starter Kit

MICROCHIP

OTP 8-Bit Microcontrollers

Memory Size		I/O Lines	ADC	Timers/ WDT	Interface	Int. Oscillator (MHz)	Max Speed (MHz)	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM Words	RAM										1	25	100
512 x 12	25 x 8	12	—	1-8bit Yes	—	—	4	Com.	18-DIP	PIC16HV540-04/P-ND	2.53	1.56	1.48
							4	Com.	18-SOIC	PIC16HV540-04/SO-ND	2.55	1.58	1.49
							20	Com.	18-DIP	PIC16HV540-20/P-ND	2.70	1.67	1.58
							20	Com.	18-SOIC	PIC16HV540-20/SO-ND	2.73	1.69	1.60
							4	Ind.	18-DIP	PIC16HV540-04I/P-ND	2.53	1.56	1.48
							4	Ind.	18-SOIC	PIC16HV540-04I/SO-ND	2.55	1.58	1.49
512 x 12	25 x 8	20	—	1-8bit Yes	—	—	20	Com.	28-CDIP	PIC16C55A/JW-ND†	7.72	—	6.75
							4	Com.	28-DIP	PIC16C55A-04/P-ND	3.08	1.91	1.81
							4	Com.	28-SOIC	PIC16C55A-04/SO-ND	3.20	1.98	1.87
							4	Com.	28-DIP .3"	PIC16C55A-04/SP-ND	3.08	1.91	1.81
							4	Ind.	28-DIP	PIC16C55A-04I/P-ND	3.38	2.09	1.97
							4	Ind.	28-SOIC	PIC16C55A-04I/SO-ND	3.53	2.18	2.07
							20	Com.	28-DIP	PIC16C55A-20/P-ND	3.43	2.12	2.01
							20	Com.	28-SOIC	PIC16C55A-20/SO-ND	3.58	2.21	2.10
							20	Com.	28-DIP .3"	PIC16C55A-20/SP-ND	3.43	2.12	2.01
							4	Com.	28-DIP	PIC16LC55A-04/P-ND	3.23	1.99	1.88
							4	Com.	28-SOIC	PIC16LC55A-04/SO-ND	3.35	2.07	1.96
512 x 14	80 x 8	13	—	1-8bit Yes	—	—	4	Com.	18-DIP	PIC16C554-04/P-ND	4.05	2.83	2.62
							4	Com.	18-SOIC	PIC16C554-04/SO-ND	4.15	2.90	2.68
512 x 14	80 x 8	13	—	1-8bit Yes	—	—	20	Com.	18-CDIP	PIC16C620A/JW-ND†	7.90	—	6.91
							4	Com.	18-DIP	PIC16C620A-04/P-ND	2.45	1.51	1.43
							4	Com.	18-SOIC	PIC16C620A-04/SO-ND	2.53	1.56	1.48
							4	Ind.	18-DIP	PIC16C620A-04I/P-ND	2.45	1.51	1.43
							20	Com.	18-DIP	PIC16C620A-20/P-ND	2.60	1.61	1.52
							20	Com.	18-SOIC	PIC16C620A-20/SO-ND	2.70	1.67	1.58
1K x 12	25 x 8	12	—	1-8bit Yes	—	—	20	Com.	18-CDIP	PIC16C56A/JW-ND†	9.94	—	9.56
							4	Com.	18-DIP	PIC16C56A-04/P-ND	2.85	1.77	1.67
							4	Com.	18-SOIC	PIC16C56A-04/SO-ND	2.90	1.80	1.70
							4	Ind.	18-DIP	PIC16C56A-04I/P-ND	3.10	1.91	1.81
							4	Ind.	18-SOIC	PIC16C56A-04I/SO-ND	3.18	1.96	1.85
							20	Com.	18-DIP	PIC16C56A-20/P-ND	3.03	1.88	1.78
							20	Com.	18-SOIC	PIC16C56A-20/SO-ND	3.08	1.91	1.81
							20	Ind.	18-DIP	PIC16C56A-20I/P-ND	3.35	2.07	1.96
							20	Ind.	18-SOIC	PIC16C56A-20I/SO-ND	3.40	2.11	1.99
							4	Com.	18-DIP	PIC16LC56A-04/P-ND	2.95	1.83	1.74
							4	Com.	18-SOIC	PIC16LC56A-04/SO-ND	3.03	1.88	1.78
							4	Ind.	18-DIP	PIC16LC56A-04I/P-ND	3.28	2.03	1.91
							4	Ind.	18-SOIC	PIC16LC56A-04I/SO-ND	3.35	2.07	1.96
							20	Com.	18-CDIP	PIC16C621A/JW-ND†	8.90	—	7.80
1K x 14	80 x 8	13	—	1-8bit Yes	—	—	4	Com.	18-DIP	PIC16C621A-04/P-ND	2.75	1.70	1.62
							4	Com.	18-SOIC	PIC16C621A-04/SO-ND	2.80	1.73	1.65
							4	Ind.	18-DIP	PIC16C621A-04I/P-ND	3.03	1.88	1.78
							20	Com.	18-DIP	PIC16C621A-20/P-ND	2.95	1.83	1.73
							20	Com.	18-SOIC	PIC16C621A-20/SO-ND	3.00	1.87	1.76
1K x 14	128 x 16	16	8-ch. 8-Bit	2-8bit 1-16bit Yes	—	4	20	Com.	20-CDIP	PIC16C781/JW-ND	13.22	—	11.53
							20	Ind.	20-DIP	PIC16C781-I/P-ND	6.05	3.31	3.08
							20	Ind.	20-SOIC	PIC16C781-I/SO-ND	6.15	3.37	3.12
							20	Ind.	20-SSOP	PIC16C781-I/SS-ND	6.75	3.69	3.43
2K x 14	128 x 8	12	—	1-8bit Yes	—	—	20	Com.	20-CDIP	PIC16C432/JW-ND†	11.44	—	10.00
							20	Ind.	20-SSOP	PIC16C432-I/SS-ND	5.70	3.13	2.90
2K x 14	128 x 8	6	4-ch. 8-Bit	1-8bit Yes	—	4	10	Com.	18-CDIP	PIC16C433/JW-ND†	12.26	—	10.29
							10	Ind.	18-DIP	PIC16C433-I/P-ND	5.33	2.91	2.71
							10	Ind.	18-SOIC	PIC16C433-I/SO-ND	5.33	2.91	2.71
2K x 14	128 x 8	22	—	2-8bit 1-16bit Yes	SSP (2MI^2C, SPI)	—	20	Com.	28-CDIP	PIC16C62B/JW-ND†	10.88	—	—
							4	Com.	28-DIP .3”	PIC16C62B-04/SP-ND	4.80	2.96	2.82
							4	Com.	28-SOIC	PIC16C62B-04/SO-ND	4.80	2.96	2.82
							4	Com.	28-SSOP	PIC16C62B-04/SS-ND	5.08	3.15	2.98
							4	Ind.	28-DIP .3”	PIC16C62B-04I/SP-ND	5.30	3.27	3.10
							20	Com.	28-DIP .3”	PIC16C62B-20/SP-ND	5.13	3.18	3.01
							20	Com.	28-SOIC	PIC16C62B-20/SO-ND	5.13	3.18	3.01
							20	Com.	28-SSOP	PIC16C62B-20/SS-ND	5.43	3.35	3.18
							20	Ind.	28-DIP .3”	PIC16C62B-20I/SP-ND	5.65	3.49	3.32
2K x 14	128 x 8	13	—	1-8bit Yes	—	—	20	Com.	18-CDIP	PIC16C622A/JW-ND†	10.04	—	8.78
							4	Com.	18-DIP	PIC16C622A-04/P-ND	3.10	1.91	1.81
							4	Com.	18-SOIC	PIC16C622A-04/SO-ND	3.18	1.96	1.85
							4	Ind.	18-DIP	PIC16C622A-04I/P-ND	3.40	2.11	1.99
							20	Com.	18-DIP	PIC16C622A-20/P-ND	3.35	2.07	1.96
							20	Com.	18-SOIC	PIC16C622A-20/SO-ND	3.38	2.09	1.97
							20	Ind.	18-DIP	PIC16C622A-20I/P-ND	3.65	2.26	2.15
							20	Ind.	18-SOIC	PIC16C622A-20I/SO-ND	3.73	2.31	2.19

† UVEPROM

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C)

(Continued)

OTP 8-Bit Microcontrollers *(Cont.)*

Memory Size		I/O Lines	ADC	Timers/ WDT	Int. Interface	Oscillator (MHz)	Max Speed (MHz)	Operating Temperature Range	Pkg.	Digi-Key Part No.	Price Each		
EPROM Words	RAM										1	25	100
2K x 14	128 x 8	13	—	1-8bit Yes	—	—	20	Com.	18-CDip	PIC16C558/JW-ND†	10.65	—	9.31
							4	Com.	18-DIP	PIC16C558-04/P-ND	5.33	3.72	3.44
							4	Com.	18-SOIC	PIC16C558-04/SO-ND	5.45	3.81	3.52
							20	Com.	28-CDIP .3"	PIC16C63A/JW-ND†	10.44	—	—
4K x 14	192 x 8	22	—	2-8bit 1-16bit Yes	USART, SSP (2MI²C, SPI)	—	4	Com.	28-DIP .3"	PIC16C63A-04/SP-ND	5.85	3.61	3.42
							4	Com.	28-SOIC	PIC16C63A-04/SO-ND	5.85	3.61	3.42
							4	Com.	28-SSOP	PIC16C63A-04/SS-ND	6.13	3.78	3.59
							4	Ind.	28-DIP .3"	PIC16C63A-04I/SP-ND	6.48	4.01	3.80
							4	Ind.	28-SOIC	PIC16C63A-04I/SO-ND	6.48	4.01	3.80
							4	Ind.	28-SSOP	PIC16C63A-04I/SS-ND	6.75	4.17	3.95
							20	Com.	28-DIP .3"	PIC16C63A-20/SP-ND	6.30	3.90	3.69
							20	Com.	28-SOIC	PIC16C63A-20/SO-ND	6.30	3.90	3.69
							20	Com.	28-SSOP	PIC16C63A-20/SS-ND	6.58	4.06	3.84
							20	Ind.	28-DIP .3"	PIC16C63A-20I/SP-ND	6.93	4.29	4.06
							20	Ind.	28-SOIC	PIC16C63A-20I/SO-ND	6.93	4.29	4.06
							20	Ind.	28-SSOP	PIC16C63A-20I/SS-ND	7.23	4.47	4.24
4K x 14	192 x 8	33	—	2-8bit 1-16bit Yes	USART, SSP (2MI²C, SPI)	—	20	Com.	40-CDIP	PIC16C65B/JW-ND†	11.46	—	—
							4	Com.	40-DIP	PIC16C65B-04/P-ND	6.58	4.06	3.84
							4	Com.	44-PLCC	PIC16C65B-04/L-ND	7.63	5.94	5.17
							4	Ind.	40-DIP	PIC16C65B-04I/P-ND	7.28	4.49	4.25
							20	Com.	40-DIP	PIC16C65B-20/P-ND	7.05	4.36	4.13
							20	Com.	44-PLCC	PIC16C65B-20/L-ND	8.10	6.30	5.49
							20	Ind.	40-DIP	PIC16C65B-20I/P-ND	7.75	4.80	4.54
							20	Ind.	44-PLCC	PIC16C65B-20I/L-ND	8.83	6.87	5.97
4K x 14	256	15	6-ch. 12-Bit	2-8bit 1-16bit Yes	SSP (MI²C, SPI)	4	20	Com.	20-CDIP	PIC16C771/JW-ND†	11.18	—	9.76
4K x 14	256 x 8	22	6-ch. 12-Bit	2-8bit 1-16bit Yes	AUSART, SSP (MI²C, SPI)	—	20	Com.	28-CDIP	PIC16C773/JW-ND†	13.14	—	12.62
							20	Com.	28-DIP .3"	PIC16C773/SP-ND	7.38	4.55	4.31
							20	Com.	28-SOIC	PIC16C773/SO-ND	7.38	4.55	4.31
							20	Ind.	28-DIP .3"	PIC16C773-I/SP-ND	8.10	5.01	4.73
							20	Ind.	28-SOIC	PIC16C773-I/SO-ND	8.10	5.01	4.73
							20	Com.	28-DIP .3"	PIC16LC773/SP-ND	7.75	4.80	4.54
							20	Com.	28-SOIC	PIC16LC773/SO-ND	7.75	4.80	4.54
4K x 14	256 x 8	33	10-ch. 12-Bit	2-8bit 1-16bit Yes	AUSART, SSP (MI²C, SPI)	—	20	Com.	40-CDIP	PIC16C774/JW-ND†	16.25	—	15.61
							20	Com.	40-DIP	PIC16C774/P-ND	8.95	5.53	5.24
							20	Com.	44-PLCC	PIC16C774/L-ND	9.65	6.75	6.24
							20	Ind.	40-DIP	PIC16C774-I/P-ND	9.85	6.09	5.77
							20	Ind.	44-PLCC	PIC16C774-I/L-ND	10.53	7.36	6.81
							20	Com.	40-DIP	PIC16LC774/P-ND	9.38	5.79	5.48
							20	Com.	44-PLCC	PIC16LC774/L-ND	10.13	7.07	6.54
8K x 14	256 x 8	22	5-ch. 8-Bit	2-8bit 1-16bit Yes	USART	—	20	Com.	28-CDIP	PIC16C745/JW-ND†	12.33	—	12.01
							20	Ind.	28-DIP .3"	PIC16C745-I/SP-ND	5.93	3.23	3.00
							20	Ind.	28-SOIC	PIC16C745-I/SO-ND	5.93	3.23	3.00
8K x 14	256 x 8	33	8-ch. 8-Bit	2-8bit 1-16bit Yes	USART	—	20	Com.	40-CDIP	PIC16C765/JW-ND†	12.95	—	12.62
							20	Ind.	44-PLCC	PIC16C765-I/L-ND	7.43	4.59	4.34
							20	Ind.	40-DIP	PIC16C765-I/P-ND	7.08	3.88	—
							20	Ind.	44-TQFP	PIC16C765-I/PT-ND	8.15	4.45	—

† UVEPROM

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C)

Microcontrollers

RFPIC12's

Program Memory Type	Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I²C	SPI	CAN	PWM	A/D	Analog Comp.	Int Osc	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
	Program Bytes	RAM Bytes	EEPROM Bytes																1	25	100
EPROM PROM	1K x 12	41	—	6	1/—	—	—	—	—	—	—	—	Y (4MHz)	4	2.5 ~ 5.5	Com. Ind.	20-CDIP 20-SOIC	RFPIC12C509AF/JW-ND RFPIC12C509AFI/SS-ND	12.16 3.98	— 2.46	10.64 2.44
EPROM PROM	1K x 12	41	—	6	1/—	—	—	—	—	—	—	—	Y (4MHz)	4	2.5 ~ 5.5	Com. Ind.	18-CDIP 18-SOIC	RFPIC12C509AG/JW-ND RFPIC12C509AGI/SO-ND	12.64 3.82	— 2.35	12.16 2.33
Flash	1K x 14	64	128	6	1/1	—	—	—	—	—	4-ch. 10-bit	1	Y (4MHz)	20	2.0 ~ 5.5	Ind.	20-SSOP 20-SSOP 20-SSOP	RFPIC12F675F-I/SS-ND RFPIC12F675H-I/SS-ND RFPIC12F675K-I/SS-ND	4.15 4.38 4.15	2.43 2.56 2.33	2.25 2.38 2.25

PIC18C's

Program Memory Type	Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I²C	SPI	CAN	PWM	A/D	Analog Comp.	Int Osc	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
	Program Bytes	RAM Bytes	EEPROM Bytes																1	25	100
ROMless	—	1536	—	26	1/3	1 (USART)	1 (Master/ Slave)	1	—	2	8-ch. 10-bit	—	—	25	4.2 ~ 5.5	Ind.	68-PLCC 64-TQFP	PIC18C601-I/L-ND PIC18C601-I/PT-ND	6.63 6.08	4.62 4.24	4.28 3.93
ROMless	—	1536	—	37	1/3	1 (USART)	1 (Master/ Slave)	1	—	2	12-ch. 10-bit	—	—	25	4.2 ~ 5.5	Ind.	84-PLCC 80-TQFP	PIC18C801-I/L-ND PIC18C801-I/PT-ND	8.15 7.35	5.69 5.13	5.26 4.74
PROM	16K x 16	1536	—	52	1/3	1 (USART)	1 (Master/ Slave)	1	Y (CAN 2.0B)	2	12-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	68-PLCC 64-TQFP	PIC18C658-I/L-ND PIC18C658-I/PT-ND	15.83 15.15	9.78 9.36	9.26 8.86

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C)

Flash Microcontrollers

General Purpose

PIC10F Devices

Memory Size			I/O Pins	Timer/ Counters 8-bit	UART	I^2C™	SPI™	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each			Tape & Reel Pricing* 3,000
Program Words	RAM Bytes	EEPROM Bytes														1	25	100	
256 x 12	16	—	4	1	—	—	—	—	—	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP SOT23-6	PIC10F200-I/P-ND PIC10F200T-I/OTCT-ND	1.00 1.04	.90 .93	.50 .84	— 463.00/M
256 x 12	16	—	4	1	—	—	—	—	1	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP SOT-23-6	PIC10F204-I/P-ND PIC10F204T-I/OTCT-ND	1.08 1.12	.97 1.00	.54 .90	— 500.00/M
256 x 12	16	—	4	1	—	—	—	2-ch. 8-bit	—	Y (8MHz)	8	2.0 ~ 5.5	Ind.	8-DIP SOT-23-6	PIC10F220-I/P-ND ***NEW!*** PIC10F220T-I/OTCT-ND ***NEW!***	1.13 1.18	1.02 1.05	.57 .95	— 522.00/M
512 X 12	23	—	4	1	—	—	—	2-ch. 8-bit	—	Y (8MHz)	8	2.0 ~ 5.5	Ind.	8-DIP SOT-23-6	PIC10F222-I/P-ND ***NEW!*** PIC10F222T-I/OTCT-ND ***NEW!***	1.20 1.26	1.08 1.13	.60 1.02	— 568.00/M
512 x 12	24	—	4	1	—	—	—	—	1	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP SOT23-6	PIC10F202-I/P-ND PIC10F202T-I/OTCT-ND	1.08 1.12	.97 1.00	.54 .90	— 505.00/M
512 x 12	24	—	4	1	—	—	—	—	1	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP SOT23-6	PIC10F206-I/P-ND PIC10F206T-I/OTCT-ND	1.13 1.18	1.02 1.05	.57 .95	— 523.00/M

*For Tape & Reel Part No., change CT-ND to TR-ND

PIC12F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
512 x 12	25	—	6	1/—	—	—	—	—	—	—	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP 8-SOIC 8-MSOP	PIC12F508-I/P-ND PIC12F508-I/SN-ND PIC12F508-I/MS-ND	1.50 1.50 1.65	.94 .94 1.03	.88 .88 .98
1K x 12	41	—	6	1/—	—	—	—	—	—	—	Y (4MHz)	4	2.0 ~ 5.5	Ind.	8-DIP 8-SOIC 8-SOIC 8-MSOP	PIC12F509-I/P-ND PIC12F509-I/SM-ND PIC12F509-I/SN-ND PIC12F509-I/MS-ND	1.60 1.65 1.55 1.73	1.00 1.15 .96 1.08	.94 1.08 .92 1.02
1K x 14	38	—	6	1/—	—	—	—	—	3-ch. 8-bit	1	Y (8MHz)	8	2.0 ~ 5.5	Ind.	8-MSOP 8-DIP 8-SOIC	PIC12F510-I/MS-ND ***NEW!*** PIC12F510-I/P-ND ***NEW!*** PIC12F510-I/SN-ND ***NEW!***	1.33 1.25 1.20	1.20 1.13 1.08	.73 .70 .68
1K x 14	64	—	6	2/1	—	—	—	—	4-ch. 10-bit	1	Y (8MHz)	20	2.0 ~ 5.5	Ind.	8-DFN 8-MSOP 8-DIP 8-SOIC	PIC12F615-I/MD-ND ***NEW!*** PIC12F615-I/MS-ND ***NEW!*** PIC12F615-I/P-ND ***NEW!*** PIC12F615-I/SN-ND ***NEW!***	1.60 1.53 1.50 1.43	1.44 1.38 1.35 1.29	.90 .86 .85 .79
1K x 14	64	128	6	1/1	—	—	—	—	—	1	Y (4MHz)	20	2.0 ~ 5.5	Ind.	8-DFN 8-DFN 8-DIP 8-SOIC	PIC12F629-I/MD-ND ***NEW!*** PIC12F629-I/MF-ND PIC12F629-I/P-ND PIC12F629-I/SN-ND	2.05 1.83 1.75 1.60	1.85 1.65 1.58 1.44	1.16 .92 .88 .80
1K x 14	64	128	6	1/1	—	—	—	—	—	1	Y (4MHz)	20	2.0 ~ 5.5	Ext.	8-DFN 8-DIP 8-SOIC	PIC12F629-E/MF-ND PIC12F629-E/P-ND PIC12F629-E/SN-ND	2.00 1.93 1.75	1.80 1.74 1.58	1.00 .96 .88
1K x 14	64	128	6	1/1	—	—	—	—	—	1	Y (8MHz)	20	2.0 ~ 5.5	Ind.	8-DFN 8-DFN 8-DIP 8-SOIC	PIC12F635-I/MD-ND ***NEW!*** PIC12F635-I/MF-ND PIC12F635-I/P-ND PIC12F635-I/SN-ND	2.30 2.30 2.15 2.15	2.07 1.43 1.34 1.34	1.45 1.35 1.26 1.26
1K x 14	64	128	6	1/1	—	—	—	—	4-ch. 10-bit	1	Y (4MHz)	20	2.0 ~ 5.5	Ind.	8-DFN 8-DFN 8-DIP 8-SOIC	PIC12F675-I/MD-ND ***NEW!*** PIC12F675-I/MF-ND PIC12F675-I/P-ND PIC12F675-I/SN-ND	2.53 2.00 1.93 1.75	2.28 1.80 1.74 1.58	1.59 1.00 .96 .88
1K x 14	64	128	6	1/1	—	—	—	—	4-ch. 10-bit	1	Y (4MHz)	20	2.0 ~ 5.5	Ext.	8-DFN 8-DIP 8-SOIC	PIC12F675-E/MF-ND PIC12F675-E/P-ND PIC12F675-E/SN-ND	2.18 2.10 1.93	1.96 1.89 1.74	1.09 1.05 .97

PIC16F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
512 x 12	25	—	12	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	18-DIP 18-SOIC 20-SSOP	PIC16F54-I/P-ND PIC16F54-I/SO-ND PIC16F54-I/SS-ND	2.25 2.25 2.25	1.40 1.40 1.40	1.33 1.33 1.33
512 x 14	36	64	13	1/—	—	—	—	—	—	—	—	4	2.0 ~ 6.0	Com. Ind. Com. Ind.	18-DIP 18-DIP 18-SOIC 18-SOIC	PIC16LF83-04/P-ND PIC16LF83-04I/P-ND PIC16LF83-04/SO-ND PIC16LF83-04I/SO-ND	6.78 7.43 6.90 7.58	4.32 4.72 4.39 4.83	4.17 4.56 4.24 4.66
1K x 12	72	—	12	1/—	—	—	—	—	—	—	Y (4MHz)	20	4.5 ~ 5.5	Ind.	14-DIP 14-SOIC 14-TSSOP	PIC16F505-I/P-ND PIC16F505-I/SL-ND PIC16F505-I/ST-ND	1.80 1.78 2.10	1.11 1.09 1.31	1.05 1.04 1.23
1K x 14	67	—	12	1/—	—	—	—	—	3-ch. 8-bit	2	Y (8MHz)	20	2.0 ~ 5.5	Ind.	14-DIP 14-SOIC 14-TSSOP	PIC16F506-I/P-ND ***NEW!*** PIC16F506-I/SL-ND ***NEW!*** PIC16F506-I/ST-ND ***NEW!***	1.45 1.28 1.50	1.31 1.15 1.35	.91 .73 .85
1K x 14	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	Y (4MHz)	20	3.0 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC16F627A-I/ML-ND PIC16F627A-I/P-ND PIC16F627A-I/SO-ND PIC16F627A-I/SS-ND	3.53 2.95 3.00 3.23	1.93 1.62 1.65 1.76	1.79 1.50 1.53 1.64
1K x 14	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	Y (4MHz)	20	2.0 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC16LF627A-I/ML-ND PIC16LF627A-I/P-ND PIC16LF627A-I/SO-ND PIC16LF627A-I/SS-ND	3.60 3.08 3.18 3.40	1.98 1.70 1.74 1.87	1.83 1.57 1.61 1.73
1K x 14	64	128	12	1/1	—	—	—	—	—	1	Y (4MHz)	20	4.5 ~ 5.5	Ind.	14-QFN 14-DIP 14-SOIC 14-TSSOP	PIC16F630-I/ML-ND ***NEW!*** PIC16F630-I/P-ND PIC16F630-I/SL-ND PIC16F630-I/ST-ND	2.33 2.15 2.08 2.40	2.10 1.34 1.87 1.49	1.16 1.26 1.04 1.42
1K x 14	64	128	18	1/1	—	1	1	—	—	2	8 MHz	20	2.0 ~ 5.5	Ind.	20-QFN 20-DIP 20-SOIC 20-SSOP	PIC16F631-I/ML-ND ***NEW!*** PIC16F631-I/P-ND ***NEW!*** PIC16F631-I/SO-ND ***NEW!*** PIC16F631-I/SS-ND ***NEW!***	2.20 2.00 2.18 2.00	1.98 1.80 1.96 1.80	1.39 1.12 1.22 1.13
1K x 14	64	128	12	1/1	—	—	—	—	8-ch. 10-bit	1	Y (4MHz)	20	2.0 ~ 5.5	Ind.	14-QFN 14-DIP 14-SOIC 14-TSSOP	PIC16F676-I/ML-ND ***NEW!*** PIC16F676-I/P-ND PIC16F676-I/SL-ND PIC16F676-I/ST-ND	2.48 2.48 2.23 2.55	2.23 1.53 2.01 2.30	1.24 1.44 1.12 1.28

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

General Purpose *(Cont.)*

PIC16F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
1K x 14	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	Y (8MHz)	20	4.0 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC16F818-I/ML-ND PIC16F818-I/P-ND PIC16F818-I/SO-ND PIC16F818-I/SS-ND	4.25 3.55 3.60 3.90	2.33 1.95 1.97 2.13	2.17 1.80 1.83 1.98
1K x 14	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	Y (8MHz)	20	2.0 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC16LF818-I/ML-ND PIC16LF818-I/P-ND PIC16LF818-I/SO-ND PIC16LF818-I/SS-ND	4.28 3.73 3.80 4.13	2.34 2.04 2.07 2.26	2.18 1.90 1.92 2.10
1K x 14	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com. Ind. Com. Ind. Com. Ind.	18-DIP 18-DIP 18-SOIC 18-SOIC 20-SSOP 20-SSOP	PIC16F84A-04/P-ND PIC16F84A-04I/P-ND PIC16F84A-04/SO-ND PIC16F84A-04I/SO-ND PIC16F84A-04/SS-ND PIC16F84A-04I/SS-ND	6.13 6.75 6.25 6.88 6.65 7.28	3.78 4.17 3.87 4.25 4.11 4.50	3.59 3.94 3.66 4.03 3.89 4.25
1K x 14	68	64	13	1/1	—	—	—	—	—	—	—	4	2.0 ~ 5.5	Com. Ind. Com. Ind. Com. Ind.	18-DIP 18-DIP 18-SOIC 18-SOIC 20-SSOP 20-SSOP	PIC16LF84A-04/P-ND PIC16LF84A-04I/P-ND PIC16LF84A-04/SO-ND PIC16LF84A-04I/SO-ND PIC16LF84A-04/SS-ND PIC16LF84A-04I/SS-ND	6.45 7.05 6.55 7.18 6.98 7.58	4.00 4.36 4.04 4.44 4.32 4.68	3.79 4.13 3.83 4.21 4.09 4.44
1K x 14	68	64	13	1/1	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Com. Ind. Com. Ind. Com. Ind.	18-DIP 18-DIP 18-SOIC 18-SOIC 20-SSOP 20-SSOP	PIC16F84A-20/P-ND PIC16F84A-20I/P-ND PIC16F84A-20/SO-ND PIC16F84A-20I/SO-ND PIC16F84A-20/SS-ND PIC16F84A-20I/SS-ND	6.55 7.20 6.65 7.30 7.10 7.73	4.04 4.46 4.11 4.51 4.39 4.78	3.83 4.22 3.89 4.26 4.16 4.52
2K x 12	72	—	20	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	28-DIP 28-SOIC 28-DIP .3” 28-SSOP	PIC16F57-I/P-ND PIC16F57-I/SO-ND PIC16F57-I/SP-ND PIC16F57-I/SS-ND	2.95 2.88 2.95 3.08	1.83 1.79 1.83 1.91	1.74 1.69 1.74 1.81
2K x 12	134	—	32	1/—	—	—	—	—	—	—	—	20	2.0 ~ 5.5	Ind.	40-Dip 44-TQFP	PIC16F59-I/P-ND PIC16F59-I/PT-ND	2.95 3.08	1.83 1.90	1.73 1.81
2K x 14	128	—	12	2/1	—	—	—	—	8-ch. 10-bit	2	Y (8MHz)	20	2.0 ~ 5.5	Ind.	14-QFN 14-DIP 14-TSSOP 14-SOIC	PIC16F616-I/ML-ND ***NEW!*** PIC16F616-I/P-ND ***NEW!*** PIC16F616-I/ST-ND ***NEW!*** PIC16F616-I/SL-ND ***NEW!***	2.00 1.90 1.93 1.93	1.80 1.71 1.74 1.74	1.14 1.07 1.08 1.08
2K x 14	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	Y (4MHz)	20	3.0 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC16F628A-I/ML-ND PIC16F628A-I/P-ND PIC16F628A-I/SO-ND PIC16F628A-I/SS-ND	3.88 3.35 3.40 3.70	2.17 1.83 1.87 2.03	2.10 1.70 1.73 1.89
2K x 14	224	128	16	2/1	1 (AUSART)	—	—	1	—	2	Y (4MHz)	20	2.0 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC16LF628A-I/ML-ND PIC16LF628A-I/P-ND PIC16LF628A-I/SO-ND PIC16LF628A-I/SS-ND	4.05 3.53 3.58 3.85	2.27 1.93 1.96 2.10	2.20 1.79 1.82 1.95
2K x 14	128	256	12	1/1	—	—	—	—	—	2	Y (8MHz)	20	2.0 ~ 5.5	Ind.	14-QFN 14-DIP 14-SOIC 14-TSSOP	PIC16F636-I/ML-ND ***NEW!*** PIC16F636-I/P-ND PIC16F636-I/SL-ND PIC16F636-I/ST-ND	2.73 2.48 2.48 2.65	2.46 1.53 1.53 1.64	1.53 1.44 1.44 1.55
2K x 14	128	256	18	1/1	—	—	—	—	12-ch. 10-bit	2	Y (8MHz)	20	2.0 ~ 5.5	Ind.	20-QFN 20-DIP 20-SOIC 20-SSOP	PIC16F677-I/ML-ND ***NEW!*** PIC16F677-I/P-ND ***NEW!*** PIC16F677-I/SO-ND ***NEW!*** PIC16F677-I/SS-ND ***NEW!***	2.35 2.15 2.30 2.15	2.12 1.94 2.07 1.94	1.48 1.20 1.29 1.22
2K x 14	128	256	12	2/1	—	—	—	4	8-ch. 10-bit	2	Y (8MHz)	20	4.0 ~ 5.5	Ind.	16-QFN 14-DIP 14-SOIC 14-TSSOP	PIC16F684-I/ML-ND PIC16F684-I/P-ND PIC16F684-I/SL-ND PIC16F684-I/ST-ND	2.63 2.63 2.40 2.73	2.37 2.37 2.16 2.46	1.32 1.32 1.20 1.36
2K x 14	128	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8 MHz	20	4.0 ~ 5.5	Ind.	20-QFN 20-DIP 20-SOIC 20-SSOP	PIC16F687-I/ML-ND ***NEW!*** PIC16F687-I/P-ND PIC16F687-I/SO-ND PIC16F687-I/SS-ND	3.15 3.58 3.58 3.23	2.84 2.14 2.14 1.92	1.40 2.08 2.08 1.87
2K x 14	128	—	13	2/1	—	—	—	1	4-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	18-DIP 18-SOIC 20-SSOP	PIC16F716-I/P-ND PIC16F716-I/SO-ND PIC16F716-I/SS-ND	1.93 1.75 2.80	1.74 1.58 1.73	.96 .88 1.65
2K x 14	128	—	22	2/1	—	1	1	1	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-DIP .3” 28-SOIC 28-SSOP 28-QFN	PIC16F72-I/SP-ND PIC16F72-I/SO-ND PIC16F72-I/SS-ND PIC16F72-I/ML-ND	3.75 3.75 3.93 3.75	2.32 2.32 2.42 2.32	2.21 2.21 2.30 2.21
2K x 14	128	—	22	2/1	—	1	1	1	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3” 28-SSOP	PIC16LF72-I/ML-ND PIC16LF72-I/SO-ND PIC16LF72-I/SP-ND PIC16LF72-I/SS-ND	3.98 3.98 3.98 4.13	2.46 2.46 2.46 2.55	2.32 2.32 2.32 2.42
2K x 14	128	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8 MHz	20	4.0 ~ 5.5	Ind.	20-QFN 20-DIP 20-SOIC 20-SSOP	PIC16F785-I/ML-ND ***NEW!*** PIC16F785-I/P-ND PIC16F785-I/SO-ND PIC16F785-I/SS-ND	3.48 3.93 3.93 3.58	3.13 2.23 2.23 2.03	1.74 2.17 2.17 1.97
2K x 14	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	Y (8MHz)	20	4.0 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC16F819-I/ML-ND PIC16F819-I/P-ND PIC16F819-I/SO-ND PIC16F819-I/SS-ND	4.80 4.03 4.13 4.40	2.63 2.20 2.26 2.41	2.44 2.04 2.10 2.25
2K x 14	128	128	16	2/1	—	1	1	1	5-ch. 10-bit	—	Y (8MHz)	20	2.0 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC16LF819-I/ML-ND PIC16LF819-I/P-ND PIC16LF819-I/SO-ND PIC16LF819-I/SS-ND	4.80 4.23 4.33 4.65	2.63 2.31 2.37 2.54	2.44 2.15 2.20 2.36
2K x 14	128	64	22	2/1	1 (AUSART)	—	—	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3” 28-SSOP	PIC16F870-I/SO-ND PIC16F870-I/SP-ND PIC16F870-I/SS-ND	5.05 5.05 5.20	3.13 3.13 3.21	2.96 2.96 3.04
2K x 14	128	64	22	2/1	1 (AUSART)	—	—	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3” 28-SSOP	PIC16LF870-I/SO-ND PIC16LF870-I/SP-ND PIC16LF870-I/SS-ND	5.33 5.33 5.45	3.29 3.29 3.37	3.11 3.11 3.19
2K x 14	128	64	33	2/1	1 (AUSART)	—	—	1	8-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC 40-DIP	PIC16F871-I/L-ND PIC16F871-I/P-ND	6.70 5.98	4.68 3.35	4.32 3.23
2K x 14	128	64	33	2/1	1 (AUSART)	—	—	1	8-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC 40-DIP 44-TQFP	PIC16LF871-I/L-ND PIC16LF871-I/P-ND PIC16LF871-I/PT-ND	7.05 6.28 8.45	4.93 3.52 4.74	4.56 3.40 4.58

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

General Purpose *(Cont.)*

PIC16F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
2K x 14	128	64	22	2/1	—	1 MI^{2}C	1	1	5-ch. 10-bit	—	—	20	4.0 ~ 5.5	Ind.	28-SOIC	PIC16F872-I/SO-ND	5.05	3.13	2.96
															28-DIP .3"	PIC16F872-I/SP-ND	5.05	3.13	2.96
															28-SSOP	PIC16F872-I/SS-ND	5.20	3.21	3.04
2K x 14	128	64	22	2/1	—	1 MI^{2}C	1	1	5-ch. 10-bit	—	—	20	2.0 ~ 5.5	Ind.	28-SOIC	PIC16LF872-I/SO-ND	5.33	3.29	3.11
															28-DIP .3"	PIC16LF872-I/SP-ND	5.33	3.29	3.11
															28-SSOP	PIC16LF872-I/SS-ND	5.45	3.37	3.19
4K x 14	256	256	16	2/1	1 (AUSART)	—	—	1	—	2	Y (4MHz)	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F648A-I/ML-ND	4.35	2.39	2.22
															18-DIP	PIC16F648A-I/P-ND	3.80	2.07	1.92
															18-SOIC	PIC16F648A-I/SO-ND	3.88	2.12	1.96
															20-SSOP	PIC16F648A-I/SS-ND	4.18	2.28	2.13
4K X 14	256	256	18	2/1	—	—	—	1	12-ch. 10-bit	2	8 MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F685-I/ML-ND ***NEW!***	3.48	3.13	1.94
															20-DIP	PIC16F685-I/P-ND	3.93	2.34	2.28
															20-SOIC	PIC16F685-I/SO-ND	3.93	2.34	2.28
															20-SSOP	PIC16F685-I/SS-ND	3.58	2.14	2.08
4K x 14	256	256	12	1/1	1 (EUSART)	—	—	—	8-ch. 10-bit	2	Y (8MHz)	20	2.0 ~ 5.5	Ind.	14-QFN	PIC16F688-I/ML-ND ***NEW!***	2.80	2.52	1.40
															14-DIP	PIC16F688-I/P-ND	2.80	2.52	1.40
															14-SOIC	PIC16F688-I/SL-ND	2.55	2.30	1.28
															14-TSSOP	PIC16F688-I/ST-ND	2.88	2.59	1.44
4K x 14	256	256	18	1/1	1 (EUSART)	1	1	—	12-ch. 10-bit	2	8 MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F689-I/ML-ND ***NEW!***	3.48	3.13	2.19
															20-DIP	PIC16F689-I/P-ND	3.93	2.34	2.28
															20-SOIC	PIC16F689-I/SO-ND	3.93	2.34	2.28
															20-SSOP	PIC16F689-I/SS-ND	3.58	2.14	2.08
4K x 14	256	256	18	2/1	1 (EUSART)	1	1	1	12-ch. 10-bit	2	8 MHz	20	4.0 ~ 5.5	Ind.	20-QFN	PIC16F690-I/ML-ND ***NEW!***	3.63	3.27	1.61
															20-DIP	PIC16F690-I/P-ND	4.13	2.46	2.40
															20-SOIC	PIC16F690-I/SO-ND	4.13	2.46	2.40
															20-SSOP	PIC16F690-I/SS-ND	3.75	2.24	2.18
4K x 14	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F73-I/ML-ND	5.85	3.61	3.42
															28-SOIC	PIC16F73-I/SO-ND	5.85	3.61	3.42
															28-DIP .3"	PIC16F73-I/SP-ND	5.85	3.61	3.42
															28-SSOP	PIC16F73-I/SS-ND	6.05	3.74	3.54
4K x 14	192	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF73-I/ML-ND	6.15	3.80	3.61
															28-SOIC	PIC16LF73-I/SO-ND	6.15	3.80	3.61
															28-DIP .3"	PIC16LF73-I/SP-ND	6.15	3.80	3.61
															28-SSOP	PIC16LF73-I/SS-ND	6.33	3.91	3.71
4K x 14	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F737-I/ML-ND	7.18	4.03	3.89
															28-SOIC	PIC16F737-I/SO-ND	6.63	3.71	3.59
															28-DIP .3"	PIC16F737-I/SP-ND	6.50	3.66	3.53
															28-SSOP	PIC16F737-I/SS-ND	6.83	3.83	3.70
4K x 14	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF737-I/ML-ND	7.53	4.23	4.08
															28-SOIC	PIC16LF737-I/SO-ND	7.28	4.08	3.93
															28-DIP .3"	PIC16LF737-I/SP-ND	7.15	4.02	3.87
															28-SSOP	PIC16LF737-I/SS-ND	7.38	4.13	3.99
4K x 14	192	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F74-I/L-ND	7.98	5.07	4.89
															44-QFN	PIC16F74-I/ML-ND	8.88	5.48	5.20
															40-DIP	PIC16F74-I/P-ND	7.13	4.41	4.18
															44-TQFP	PIC16F74-I/PT-ND	8.55	5.29	5.01
4K x 14	192	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF74-I/L-ND	8.38	5.34	5.15
															44-QFN	PIC16LF74-I/ML-ND	9.30	5.74	5.43
															40-DIP	PIC16LF74-I/P-ND	7.48	4.62	4.37
															44-TQFP	PIC16LF74-I/PT-ND	9.00	5.56	5.27
4K x 14	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	40-QFN	PIC16F747-I/ML-ND	8.00	4.48	4.33
															40-DIP	PIC16F747-I/P-ND	7.48	4.19	4.04
															44-TQFP	PIC16F747-I/PT-ND	7.60	4.26	4.11
4K x 14	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	40-QFN	PIC16LF747-I/ML-ND	8.80	4.93	4.76
															40-DIP	PIC16LF747-I/P-ND	8.20	4.59	4.44
															44-TQFP	PIC16LF747-I/PT-ND	8.38	4.70	4.54
4K x 14	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	Y (8MHz)	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F87-I/ML-ND	5.25	2.87	2.66
															18-DIP	PIC16F87-I/P-ND	4.65	2.54	2.37
															18-SOIC	PIC16F87-I/SO-ND	4.80	2.63	2.44
															20-SSOP	PIC16F87-I/SS-ND	5.13	2.81	2.61
4K x 14	368	256	16	2/1	1 (AUSART)	—	—	1	—	2	Y (8MHz)	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF87-I/ML-ND	5.48	3.00	2.78
															18-DIP	PIC16LF87-I/P-ND	4.90	2.69	2.49
															18-SOIC	PIC16LF87-I/SO-ND	5.00	2.74	2.54
															20-SSOP	PIC16LF87-I/SS-ND	5.43	2.96	2.75
4K x 14	192	128	22	2/1	1 (AUSART)	1	1	2	5-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN	PIC16F873A-I/ML-ND	7.60	4.70	4.45
															28-SOIC	PIC16F873A-I/SO-ND	7.15	4.43	4.19
															28-DIP .3"	PIC16F873A-I/SP-ND	7.15	4.43	4.19
															28-SSOP	PIC16F873A-I/SS-ND	7.30	4.51	4.26
4K x 14	192	128	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF873A-I/ML-ND	7.98	4.93	4.66
															28-SOIC	PIC16LF873A-I/SO-ND	7.53	4.65	4.40
															28-DIP .3"	PIC16LF873A-I/SP-ND	7.53	4.65	4.40
															28-SSOP	PIC16LF873A-I/SS-ND	7.90	4.89	4.63
4K x 14	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-PLCC	PIC16F874A-I/L-ND	8.75	5.57	5.37
															44-QFN	PIC16F874A-I/ML-ND	9.00	5.56	5.27
															40-DIP	PIC16F874A-I/P-ND	7.80	4.83	4.57
															44-TQFP	PIC16F874A-I/PT-ND	9.00	5.56	5.27
4K x 14	192	128	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-PLCC	PIC16LF874A-I/L-ND	9.20	5.86	5.66
															40-DIP	PIC16LF874A-I/P-ND	8.20	5.07	4.80
															44-TQFP	PIC16LF874A-I/PT-ND	9.45	5.83	5.53
4K x 14	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	Y (8MHz)	20	3.0 ~ 5.5	Ind.	28-QFN	PIC16F88-I/ML-ND	5.58	3.44	3.27
															18-DIP	PIC16F88-I/P-ND	5.00	2.74	2.54
															18-SOIC	PIC16F88-I/SO-ND	5.10	2.80	2.60
															20-SSOP	PIC16F88-I/SS-ND	5.48	3.00	2.78
4K x 14	368	256	16	2/1	1 (AUSART)	—	1	1	7-ch. 10-bit	2	Y (8MHz)	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16LF88-I/ML-ND	5.85	3.62	3.43
															18-DIP	PIC16LF88-I/P-ND	5.25	2.87	2.66
															18-SOIC	PIC16LF88-I/SO-ND	5.33	2.91	2.71
															20-SSOP	PIC16LF88-I/SS-ND	5.75	3.16	2.92
4K x 14	256	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	Y (8 MHz)	20	2.0 ~ 5.5	Ind.	28-QFN	PIC16F883-I/ML-ND ***NEW!***	3.95	3.56	1.76
															28-SOIC	PIC16F883-I/SO-ND ***NEW!***	3.43	3.09	1.92
															28-DIP .3"	PIC16F883-I/SP-ND ***NEW!***	3.73	3.36	2.09
															28-SSOP	PIC16F883-I/SS-ND ***NEW!***	3.35	3.02	1.88
4K x 14	256	256	36	2/1	1 (EUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	Y (8 MHz)	20	2.0 ~5.5	Ind.	44-QFN	PIC16F884-I/ML-ND ***NEW!***	4.20	3.78	2.37
															40-DIP	PIC16F884-I/P-ND ***NEW!***	3.88	3.49	2.17
															44-TQFP	PIC16F884-I/PT-ND ***NEW!***	3.90	3.51	2.20

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

Flash Microcontrollers *(Cont.)*

General Purpose *(Cont.)*

PIC16F Devices *(Cont.)*

Memory Size Program Words	Memory Size RAM Bytes	Memory Size EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
8K x 14	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3” 28-SSOP	PIC16F76-I/ML-ND PIC16F76-I/SO-ND PIC16F76-I/SP-ND PIC16F76-I/SS-ND	7.38 7.38 7.38 7.55	4.55 4.55 4.55 4.67	4.31 4.31 4.31 4.42
8K x 14	368	—	22	2/1	1 (USART)	1	1	2	5-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3” 28-SSOP	PIC16LF76-I/ML-ND PIC16LF76-I/SO-ND PIC16LF76-I/SP-ND PIC16LF76-I/SS-ND	7.73 7.73 7.73 7.93	4.78 4.78 4.78 4.90	4.52 4.52 4.52 4.65
8K x 14	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	Y (8MHz)	20	4.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3” 28-SSOP	PIC16F767-I/ML-ND PIC16F767-I/SO-ND PIC16F767-I/SP-ND PIC16F767-I/SS-ND	8.33 7.70 7.55 7.95	4.67 4.33 4.23 4.45	4.51 4.18 4.08 4.30
8K x 14	368	—	25	2/1	1 (AUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	Y (4MHz)	20	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3” 28-SSOP	PIC16LF767-I/ML-ND PIC16LF767-I/SO-ND PIC16LF767-I/SP-ND PIC16LF767-I/SS-ND	9.08 8.38 8.33 8.65	5.09 4.70 4.67 4.85	4.91 4.54 4.50 4.68
8K x 14	368	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	4.0 ~ 5.5	Ind.	44-PLCC 44-QFN 40-DIP	PIC16F77-I/L-ND PIC16F77-I/ML-ND PIC16F77-I/P-ND	9.13 10.13 8.15	5.81 6.25 5.03	5.61 5.92 4.77
8K x 14	368	—	33	2/1	1 (USART)	1	1	2	8-ch. 8-bit	—	—	20	2.0 ~ 5.5	Ind.	44-PLCC 44-QFN 40-DIP 44-TQFP	PIC16LF77-I/L-ND PIC16LF77-I/ML-ND PIC16LF77-I/P-ND PIC16LF77-I/PT-ND	9.60 10.58 8.55 10.28	6.11 6.54 5.29 6.34	5.90 6.20 5.01 6.02
8K x 14	368	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC16F777-I/ML-ND PIC16F777-I/P-ND PIC16F777-I/PT-ND	8.85 8.33 8.45	4.96 4.67 4.74	4.79 4.50 4.58
8K x 14	36	—	36	2/1	1 (AUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC16LF777-I/ML-ND PIC16LF777-I/P-ND PIC16LF777-I/PT-ND	9.78 9.13 9.30	5.48 5.12 5.21	5.29 4.95 5.02
8K x 14	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	4.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3” 28-SSOP	PIC16F876A-I/ML-ND PIC16F876A-I/SO-ND PIC16F876A-I/SP-ND PIC16F876A-I/SS-ND	7.70 7.70 7.70 7.85	4.77 4.77 4.77 4.86	4.51 4.51 4.51 4.60
8K x 14	368	256	22	2/1	1 (AUSART)	1 MI^{2}C	1	2	5-ch. 8-bit	2	—	20	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3” 28-SSOP	PIC16LF876A-I/ML-ND PIC16LF876A-I/SO-ND PIC16LF876A-I/SP-ND PIC16LF876A-I/SS-ND	8.08 8.08 8.08 8.23	4.99 4.99 4.99 5.09	4.72 4.72 4.72 4.81
8K x 14	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	4.0 ~ 5.5	Ind.	44-PLCC 44-QFN 40-DIP 44-TQFP	PIC16F877A-I/L-ND PIC16F877A-I/ML-ND PIC16F877A-I/P-ND PIC16F877A-I/PT-ND	9.40 9.68 8.40 9.68	5.97 5.98 5.19 5.98	5.78 5.67 4.92 5.67
8K x 14	368	256	33	2/1	1 (AUSART)	1 MI^{2}C	1	2	8-ch. 10-bit	2	—	20	2.0 ~ 5.5	Ind.	44-PLCC 44-QFN 40-DIP 44-TQFP	PIC16LF877A-I/L-ND PIC16LF877A-I/ML-ND PIC16LF877A-I/P-ND PIC16LF877A-I/PT-ND	9.90 10.15 8.85 10.15	6.31 6.27 5.47 6.27	6.10 5.93 5.17 5.93
8K x 14	368	256	25	2/1	1 (EUSART)	1 MI^{2}C	1	2	11-ch. 10-bit	2	Y (8 MHz)	20	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3” 28-SSOP	PIC16F886-I/ML-ND ***NEW!*** PIC16F886-I/SO-ND ***NEW!*** PIC16F886-I/SP-ND ***NEW!*** PIC16F886-I/SS-ND ***NEW!***	4.23 3.73 4.00 3.65	3.81 3.36 3.60 3.29	2.38 2.09 2.24 2.05
8K x 14	368	256	36	2/1	1 (EUSART)	1 MI^{2}C	1	2	14-ch. 10-bit	2	Y (8 MHz)	20	2.0 ~5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC16F887-I/ML-ND ***NEW!*** PIC16F887-I/P-ND ***NEW!*** PIC16F887-I/PT-ND ***NEW!***	4.53 4.23 4.28	4.08 3.81 3.85	2.55 2.38 2.40

PIC18F Devices

Memory Size Program Words	Memory Size RAM Bytes	Memory Size EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
2K x 16	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC18F1220-I/ML-ND PIC18F1220-I/P-ND PIC18F1220-I/SO-ND PIC18F1220-I/SS-ND	5.33 5.00 5.00 5.33	3.29 3.10 3.10 3.29	3.11 2.93 2.93 3.11
2K x 16	256	256	16	1/3	1 (EUSART)	—	—	1	7-ch. 10-bit	—	Y (8MHz)	40	2.5 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC18LF1220-I/ML-ND PIC18LF1220-I/P-ND PIC18LF1220-I/SO-ND PIC18LF1220-I/SS-ND	6.10 5.75 5.75 6.10	3.77 3.57 3.57 3.77	3.57 3.38 3.38 3.57
2K x 16	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-SOIC 8-DIP .3”	PIC18F2220-I/SO-ND PIC18F2220-I/SP-ND	8.00 8.00	4.94 4.94	4.67 4.67
2K x 16	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3”	PIC18LF2220-I/SO-ND PIC18LF2220-I/SP-ND	8.38 8.38	5.18 5.18	4.91 4.91
2K x 16	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10 ch. 10-bit	2	8MHz 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3”	PIC18F2221-I/ML-ND ***NEW!*** PIC18F2221-I/SO-ND ***NEW!*** PIC18F2221-I/SP-ND ***NEW!***	5.28 4.73 4.98	4.75 4.26 4.48	2.91 2.61 2.75
2K x 16	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10 ch. 10-bit	2	8MHz 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3”	PIC18LF2221-I/ML-ND ***NEW!*** PIC18LF2221-I/SO-ND ***NEW!*** PIC18LF2221-I/SP-ND ***NEW!***	5.50 4.98 5.20	4.95 4.48 4.68	3.08 2.75 2.87
2K x 16	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4220-I/ML-ND PIC18F4220-I/P-ND PIC18F4220-I/PT-ND	10.50 8.83 10.18	6.49 5.45 6.29	6.15 5.16 5.95
2K x 16	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4220-I/ML-ND PIC18LF4220-I/P-ND PIC18LF4220-I/PT-ND	11.05 9.25 10.70	6.82 5.72 6.60	6.47 5.42 6.26
2K x 16	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8 MHz 32 kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4221-I/ML-ND ***NEW!*** PIC18F4221-I/P-ND ***NEW!*** PIC18F4221-I/PT-ND ***NEW!***	5.58 5.45 5.45	5.02 4.91 4.91	3.13 3.02 3.00

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

General Purpose *(Cont.)*

PIC18F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^2C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
2K x 16	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8 MHz 32 kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4221-I/ML-ND PIC18LF4221-I/P-ND PIC18LF4221-I/PT-ND	5.85 5.70 5.70	3.49 3.41 3.41	3.39 3.31 3.31
4K x 16	256	256	16	1/3	1(EUSART)	—	—	1	7-ch. 10-bit	—	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC18F1320-I/ML-ND PIC18F1320-I/P-ND PIC18F1320-I/SO-ND PIC18F1320-I/SS-ND	6.00 5.65 5.65 6.00	3.70 3.49 3.49 3.70	3.51 3.32 3.32 3.51
4K x 16	256	256	16	1/3	1(EUSART)	—	—	1	7-ch. 10-bit	—	Y (8MHz)	40	2.5 ~ 5.5	Ind.	28-QFN 18-DIP 18-SOIC 20-SSOP	PIC18LF1320-I/ML-ND PIC18LF1320-I/P-ND PIC18LF1320-I/SO-ND PIC18LF1320-I/SS-ND	6.78 6.48 6.48 6.78	4.19 4.01 4.01 4.19	3.96 3.80 3.80 3.96
4K x 16	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2320-I/SO-ND PIC18F2320-I/SP-ND	8.65 8.65	5.34 5.34	5.06 5.06
4K x 16	512	256	25	1/3	1 (AUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2320-I/SO-ND PIC18LF2320-I/SP-ND	9.08 9.08	5.61 5.61	5.31 5.31
4K x 16	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2321-I/ML-ND ***NEW!*** PIC18F2321-I/SO-ND ***NEW!*** PIC18F2321-I/SP-ND ***NEW!***	5.53 5.00 5.25	4.98 4.50 4.73	3.06 2.77 2.90
4K x 16	512	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	8MHz 32kHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2321-I/ML-ND ***NEW!*** PIC18LF2321-I/SO-ND ***NEW!*** PIC18LF2321-I/SP-ND ***NEW!***	5.78 5.25 5.48	5.20 4.73 4.93	3.20 2.90 3.03
4K x 16	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4320-I/ML-ND PIC18F4320-I/P-ND PIC18F4320-I/PT-ND	11.18 9.50 10.83	6.91 5.87 6.68	6.54 5.56 6.33
4K x 16	512	256	36	1/3	1 (AUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4320-I/ML-ND PIC18LF4320-I/P-ND PIC18LF4320-I/PT-ND	11.75 9.95 11.40	7.26 6.16 7.04	6.88 5.83 6.66
4K x 16	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8 MHz 32 kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4321-I/ML-ND ***NEW!*** PIC18F4321-I/P-ND ***NEW!*** PIC18F4321-I/PT-ND ***NEW!***	5.85 5.73 5.73	5.27 5.16 5.16	3.23 3.18 3.16
4K x 16	512	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	8 MHz 32 kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4321-I/ML-ND PIC18LF4321-I/P-ND PIC18LF4321-I/PT-ND	6.15 6.00 6.00	3.67 3.58 3.58	3.58 3.48 3.48
4K x 16	768	—	54	1/3	1(AUSART) & 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP 64-TQFP	PIC18F6310-I/PT-ND PIC18LF6310-I/PT-ND	8.70 10.45	5.37 6.45	5.09 6.12
4K x 16	768	—	70	1/3	1(AUSART) & 1(EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP 80-TQFP	PIC18F8310-I/PT-ND PIC18LF8310-I/PT-ND	9.70 11.65	5.99 7.20	5.68 6.82
8K x 16	768	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2410-I/ML-ND PIC18F2410-I/SO-ND PIC18F2410-I/SP-ND	7.73 6.93 7.20	4.79 4.29 4.46	4.52 4.06 4.22
8K x 16	768	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2410-I/ML-ND PIC18LF2410-I/SO-ND PIC18LF2410-I/SP-ND	9.28 7.30 7.58	5.73 4.51 4.68	5.44 4.26 4.44
8K x 16	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10 bit	2	32kHz	40	2.7 ~ 3.6	Ind.	28-QFN 28-SOIC 28-DIP .3" 28-SSOP	PIC18F24J10-I/ML-ND PIC18F24J10-I/SO-ND PIC18F24J10-I/SP-ND PIC18F24J10-I/SS-ND	3.60 3.20 3.45 3.20	2.15 1.91 2.06 1.91	2.03 1.79 1.94 1.79
8K x 16	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10 bit	2	32kHz	40	2.7 ~ 3.6	Ind.	28-QFN 28-SOIC 28-DIP .3" 28-SSOP	PIC18LF24J10-I/ML-ND ***NEW!*** PIC18LF24J10-I/SO-ND ***NEW!*** PIC18LF24J10-I/SP-ND ***NEW!*** PIC18LF24J10-I/SS-ND ***NEW!***	3.63 3.20 3.45 3.20	3.27 2.88 3.11 2.88	2.04 1.80 1.93 1.80
8K x 16	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10 ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2420-I/ML-ND PIC18F2420-I/SO-ND PIC18F2420-I/SP-ND	9.03 8.20 8.48	5.58 5.07 5.24	5.28 4.80 4.97
8K x 16	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10 ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2420-I/ML-ND PIC18LF2420-I/SO-ND PIC18LF2420-I/SP-ND	10.83 8.68 8.95	6.68 5.35 5.53	6.33 5.07 5.24
8K x 16	768	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4410-I/ML-ND PIC18F4410-I/P-ND PIC18F4410-I/PT-ND	8.55 7.78 8.23	5.29 5.01 5.08	5.01 4.54 4.81
8K x 16	768	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4410-I/ML-ND PIC18LF4410-I/P-ND PIC18LF4410-I/PT-ND	10.18 9.78 9.88	6.29 6.04 6.10	5.96 5.72 5.78
8K x 16	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32 kHz	40	2.7 ~ 3.6	Ind.	44-QFN 44-TQFP	PIC18F44J10-I/ML-ND PIC18F44J10-I/PT-ND	4.00 3.73	2.39 2.22	2.24 2.09
8K x 16	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32 kHz	40	2.25 ~ 3.6	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF44J10-I/ML-ND PIC18LF44J10-I/P-ND ***NEW!*** PIC18LF44J10-I/PT-ND	4.00 3.70 3.73	2.39 3.33 2.23	2.24 2.08 2.09
8K x 16	768	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4420-I/ML-ND PIC18F4420-I/P-ND PIC18F4420-I/PT-ND	9.83 9.00 9.53	6.08 5.76 5.88	5.75 5.26 5.57
8K x 16	768	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4420-I/ML-ND PIC18LF4420-I/P-ND PIC18LF4420-I/PT-ND	11.73 10.80 11.40	7.25 6.66 7.04	6.86 6.31 6.66
8K x 16	768	—	54	1/3	1(AUSART) & 1 (EUSART)	1 MI^{2}C	1	3	12-ch 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP 64-TQFP	PIC18F6410-I/PT-ND PIC18LF6410-I/PT-ND	9.55 11.48	5.90 7.08	5.59 6.71
8K x 16	768	—	70	2/3	1(AUSART) & 1 (EUSART)	1 MI^{2}C	1	3	12-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP 80-TQFP	PIC18F8410-I/PT-ND PIC18LF8410-I/PT-ND	10.58 12.70	6.54 7.85	6.20 7.44
16K x 16	1536	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2510-I/ML-ND PIC18F2510-I/SO-ND PIC18F2510-I/SP-ND	8.68 7.90 8.18	5.36 4.89 5.05	5.08 4.63 4.78
16K x 16	1536	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2510-I/ML-ND PIC18LF2510-I/SO-ND PIC18LF2510-I/SP-ND	10.43 8.33 8.58	6.44 5.15 5.31	6.10 4.88 5.02
16K x 16	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32 kHz	40	2.7 ~ 3.6	Ind.	28-QFN 28-SOIC 28-DIP .3" 28-SSOP	PIC18F25J10-I/ML-ND PIC18F25J10-I/SO-ND PIC18F25J10-I/SP-ND PIC18F25J10-I/SP-ND	3.93 3.50 3.78 3.78	2.35 2.09 2.26 2.26	2.21 1.97 2.12 2.12
16K x 16	1024	—	21	1/2	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	32 kHz	40	2.25 ~ 3.6	Ind.	28-DIP .3" 28-QFN 28-SOIC 28-SSOP	PIC18LF25J10-I/SP-ND PIC18LF25J10-I/ML-ND PIC18LF25J10-I/SO-ND PIC18LF25J10-I/SS-ND	3.78 3.93 3.50 3.50	2.25 2.33 2.09 2.09	2.12 2.21 1.97 1.97
16K x 16	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2520-I/ML-ND PIC18F2520-I/SO-ND PIC18F2520-I/SP-ND	10.00 9.18 9.45	6.18 5.67 5.83	5.86 5.38 5.53

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

General Purpose *(Cont.)*

PIC18F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
16K x 16	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2520-I/ML-ND PIC18LF2520-I/SO-ND PIC18LF2520-I/SP-ND	11.98 9.65 9.90	7.40 5.96 6.13	7.01 5.65 5.80
16K x 16	1536	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4510-I/ML-ND PIC18F4510-I/P-ND PIC18F4510-I/PT-ND	9.50 9.13 9.20	5.87 5.37 5.69	5.56 5.08 5.39
16K x 16	1536	—	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4510-I/ML-ND PIC18LF4510-I/P-ND PIC18LF4510-I/PT-ND	11.33 10.95 11.00	7.00 6.76 6.79	6.63 6.40 6.43
16K x 16	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32 kHz	40	2.7 ~ 3.6	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F45J10-I/ML-ND PIC18F45J10-I/P-ND ***NEW!*** PIC18F45J10-I/PT-ND	4.30 4.00 4.05	2.57 3.60 2.41	2.42 2.25 2.27
16K x 16	1024	—	32	1/2	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	32 kHz	40	2.25 ~ 3.6	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF45J10-I/ML-ND PIC18LF45J10-I/P-ND ***NEW!*** PIC18LF45J10-I/PT-ND	4.30 4.03 4.05	2.56 3.63 2.42	2.42 2.26 2.27
16K x 16	1536	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4520-I/ML-ND PIC18F4520-I/P-ND PIC18F4520-I/PT-ND	10.78 10.43 10.48	6.65 6.44 6.47	6.30 6.10 6.13
16K x 16	1536	256	34	1/3	1 (EUSART)	1 MI^{2}C	1	2	13-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4520-I/ML-ND PIC18LF4520-I/P-ND PIC18LF4520-I/PT-ND	12.85 12.50 12.55	7.94 7.73 7.76	7.52 7.32 7.35
16K x 16	2048	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F65J10-I/PT-ND	7.53	4.49	4.36
16K x 16	2048	1024	52	2/3	2 (AUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	—	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP 64-TQFP	PIC18F6520-I/PT-ND PIC18LF6520-I/PT-ND	11.73 12.28	7.25 7.58	6.86 7.18
16K x 16	2048	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J10-I/PT-ND	8.70	5.18	5.05
16K x 16	2048	1024	68	2/3	2 (AUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	—	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP 80-TQFP	PIC18F8520-I/PT-ND PIC18LF8520-I/PT-ND	12.30 12.93	7.60 7.99	7.19 7.56
24K x 16	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2515-I/SO-ND PIC18F2515-I/SP-ND	8.85 9.13	5.47 5.64	5.18 5.35
24K x 16	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2515-I/SO-ND PIC18LF2515-I/SP-ND	9.33 9.60	5.76 5.93	5.45 5.62
24K x 16	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2525-I/SO-ND PIC18F2525-I/SP-ND	10.05 10.43	6.21 6.44	5.87 6.10
24K x 16	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2525-I/SO-ND PIC18LF2525-I/SP-ND	10.58 10.95	6.54 6.77	6.20 6.40
24K x 16	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4515-I/ML-ND PIC18F4515-I/P-ND PIC18F4515-I/PT-ND	10.45 10.08 10.15	6.46 6.22 6.27	6.12 5.89 5.93
24K x 16	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4515-I/ML-ND PIC18LF4515-I/P-ND PIC18LF4515-I/PT-ND	12.45 12.08 12.18	7.69 7.47 7.53	7.28 7.07 7.13
24K x 16	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4525-I/ML-ND PIC18F4525-I/P-ND PIC18F4525-I/PT-ND	11.75 11.35 11.43	7.26 7.03 7.06	6.88 6.65 6.70
24K x 16	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4525-I/ML-ND PIC18LF4525-I/P-ND PIC18LF4525-I/PT-ND	14.00 13.63 13.70	8.65 8.42 8.47	8.20 7.98 8.02
24K x 16	2048	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.7 ~ 3.6	Ind.	64-TQFP	PIC18F65J15-I/PT-ND	8.03	4.78	4.65
24K x 16	3936	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8 MHz 32 kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP 64-TQFP	PIC18F6527-I/PT-ND PIC18LF6527-I/PT-ND	11.85 11.85	6.65 6.65	6.42 6.42
24K x 16	2048	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F85J15-I/PT-ND	9.23	5.50	5.36
24K x 16	3936	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz 32kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP 80-TQFP	PIC18F8527-I/PT-ND PIC18LF8527-I/PT-ND	12.28 12.90	6.55 6.88	6.33 6.64
32K x 16	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2610-I/SO-ND PIC18F2610-I/SP-ND	9.83 10.08	6.08 6.22	5.75 5.89
32K x 16	3968	—	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2610-I/SO-ND PIC18LF2610-I/SP-ND	10.30 10.58	6.37 6.54	6.03 6.20
32K x 16	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2620-I/SO-ND PIC18F2620-I/SP-ND	10.98 11.35	6.78 7.03	6.43 6.65
32K x 16	3968	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	2	10-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2620-I/SO-ND PIC18LF2620-I/SP-ND	14.00 14.00	7.15 7.36	6.76 6.97
32K x 16	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4610-I/ML-ND PIC18F4610-I/P-ND PIC18F4610-I/PT-ND	11.40 11.05 11.10	7.04 6.82 6.86	6.66 6.47 6.49
32K x 16	3968	—	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4610-I/ML-ND PIC18LF4610-I/P-ND PIC18LF4610-I/PT-ND	13.63 13.23 13.33	8.42 8.17 8.24	7.98 7.74 7.79
32K x 16	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4620-I/ML-ND PIC18F4620-I/P-ND PIC18F4620-I/PT-ND	12.68 12.30 12.40	7.84 7.60 7.65	7.43 7.19 7.26
32K x 16	3968	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	5	13-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4620-I/ML-ND PIC18LF4620-I/P-ND PIC18LF4620-I/PT-ND	15.15 14.78 14.85	9.36 9.13 9.17	8.87 8.64 8.68
32K x 16	2048	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J10-I/PT-ND	8.55	5.11	4.97
32K x 16	3936	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	8MHz 32kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP 64-TQFP	PIC18F6622-I/PT-ND PIC18LF6622-I/PT-ND	12.43 13.05	7.31 7.31	7.06 7.06
32K x 16	2048	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J10-I/PT-ND	9.70	5.78	5.63
32K x 16	3936	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	8MHz 32kHz	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP 80-TQFP	PIC18F8622-I/PT-ND PIC18LF8622-I/PT-ND	13.48 14.15	7.19 7.55	6.95 7.29
32K x 16	3808	—	70	2/3	2 (EUSART)	2 MI^{2}C	1	5	16-ch. 10-bit	2	31kHz	42	2.35 ~ 3.6	Ind.	100-TQFP	PIC18F96J60-I/PT-ND ***NEW!***	10.90	9.81	6.10
48K x 16	3936	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F66J15-I/PT-ND	9.23	5.50	5.36
48K x 16	3938	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	Y (8MHz)	48	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP 64-TQFP	PIC18F6627-I/PT-ND PIC18LF6627-I/PT-ND	14.68 15.43	8.24 8.66	7.94 8.35
48K x 16	3936	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F86J15-I/PT-ND	10.43	6.22	6.05

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

General Purpose *(Cont.)*

PIC18F Devices *(Cont.)*

Memory Size			I/O	Timer/								Clock					Price Each		
Program Words	RAM Bytes	EEPROM Bytes	Pins	Counters 8/16-bit	UART	I^2C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	1	25	100
48K x 16	3938	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8627-I/PT-ND	15.70	8.79	8.49
													2.0 ~ 5.5		80-TQFP	PIC18LF8627-I/PT-ND	16.48	9.23	8.91
64K x 16	3936	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F67J10-I/PT-ND	10.08	6.00	5.84
64K x 16	3938	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6722-I/PT-ND	16.73	9.38	9.06
													2.0 ~ 5.5		64-TQFP	PIC18LF6722-I/PT-ND	17.58	9.84	9.50
64K x 16	3936	—	66	2/3	2 (EUSART)	1 MI2C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F87J10-I/PT-ND	11.28	6.72	6.54
64K x 16	3938	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8722-I/PT-ND	17.75	9.95	9.60
													2.0 ~ 5.5		80-TQFP	PIC18LF8722-I/PT-ND	18.65	10.45	10.09
64K x 16	3808	—	55	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	80-TQFP	PIC18F87J60-I/PT-ND ***NEW!***	11.35	10.22	6.36
64K x 16	3808	—	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	31kHz	42	2.35 ~ 3.6	Ind.	100-TQFP	PIC18F97J60-I/PF-ND ***NEW!***	12.93	11.64	7.24
64K x 16	3936	—	50	2/3	2 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	64-TQFP	PIC18F67J10-I/PT-ND	10.08	6.00	5.84
64K x 16	3938	1024	54	2/3	2 (EUSART)	1 MI^{2}C	1	5	12-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6722-I/PT-ND	16.73	9.38	9.06
													2.0 ~ 5.5		64-TQFP	PIC18LF6722-I/PT-ND	17.58	9.84	9.50
64K x 16	3808	—	39	2/3	1 (EUSART)	1 MI^{2}C	1	5	11-ch. 10-bit	2	31kHz	42	2.35 ~ 3.6	Ind.	64-TQFP	PIC18F67J60-I/PT-ND ***NEW!***	10.48	9.43	5.87
64K x 16	3936	—	66	2/3	2 (EUSART)	1 MI^{2}C	1	5	15-ch. 10-bit	2	32kHz	40	2.0 ~ 3.6	Ind.	80-TQFP	PIC18F87J10-I/PT-ND	11.28	6.72	6.54
64K x 16	3938	1024	70	2/3	2 (EUSART)	1 MI^{2}C	1	5	16-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	80-TQFP	PIC18F8722-I/PT-ND	17.75	9.95	9.60
													2.0 ~ 5.5		80-TQFP	PIC18LF8722-I/PT-ND	18.65	10.45	10.09

NEW! PIC24FJ Devices

Memory Size			I/O	Timer/								Clock					Price Each		
Program Words	RAM Bytes	EEPROM Bytes	Pins	Counters 16/32-bit	UART	I^2C™	SPI™	PWM	A/D	Capture Compare	Int. Osc.	Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	1	25	100
32K x 16	8K	—	54	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	64-TQFP	PIC24FJ64GA006-I/PT-ND	7.95	7.16	3.98
32K x 16	8K	—	70	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	80-TQFP	PIC24FJ64GA008-I/PT-ND	9.25	8.33	4.64
32K x 16	8K	—	86	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	100-TQFP	PIC24FJ64GA010-I/PF-ND	12.15	10.94	6.08
														Ind.	100-TQFP	PIC24FJ64GA010-I/PT-ND	10.55	9.50	5.28
48K x 16	8K	—	54	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	64-TQFP	PIC24FJ96GA006-I/PT-ND	8.73	7.86	4.38
48K x 16	8K	—	70	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	80-TQFP	PIC24FJ96GA008-I/PT-ND	10.05	9.05	5.04
48K x 16	8K	—	86	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	100-TQFP	PIC24FJ96GA010-I/PF-ND	12.93	11.64	6.48
													2.7 ~ 3.6	Ind.	100-TQFP	PIC24FJ96GA010-I/PT-ND	11.35	10.22	5.68
64K x 16	8K	—	54	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	64-TQFP	PIC24FJ128GA006-I/PT-ND	5.02	4.90	4.78
64K x 16	8K	—	70	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	80-TQFP	PIC24FJ128GA008-I/PT-ND	5.71	5.58	5.44
64K x 16	8K	—	86	5/—	2	2	2	5	16-ch. 10-bit	2	8 MHz	32	2.7 ~ 3.6	Ind.	100-TQFP	PIC24FJ128GA010-I/PF-ND	7.11	6.95	6.78

NEW! PIC24HJ Devices

Memory Size			I/O	Timer/								Clock					Price Each		
Program Words	RAM Bytes	EEPROM Bytes	Pins	Counters 16/32-bit	UART	I^2C™	SPI™	PWM	A/D	Capture Compare	Int. Osc.	Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	1	25	100
32K x 16	8K	—	53	9/4	2	1	2	8	18-ch. 12-bit; 18-ch. 10 bit	8	32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ64GP206-I/PT-ND	9.25	8.33	4.64
32K x 16	8K	—	85	9/4	2	2	2	8	32-ch. 12-bit; 32-ch. 10-bit	8	32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ64GP210-I/PF-ND	12.83	11.55	6.43
															100-TQFP	PIC24HJ64GP210-I/PT-ND	11.23	10.11	5.63
64K x 16	8K	—	53	9/4	2	2	2	8	18-ch. 12-bit; 18-ch. 10 bit	8	32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP206-I/PT-ND	10.65	9.59	5.34
64K x 16	8K	—	85	9/4	2	2	2	8	32-ch. 12-bit; 32-ch. 10-bit	8	32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP210-I/PF-ND	14.15	12.74	7.09
															100-TQFP	PIC24HJ128GP210-I/PT-ND	12.55	11.30	6.29
64K x 16	16K	—	53	9/4	2	2	2	8	18-ch. 12-bit; 18-ch. 10 bit	8	32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP306-I/PT-ND	11.00	9.90	5.52
64K x 16	16k	—	85	9/4	2	2	2	8	32-ch. 12-bit; 32-ch. 10-bit	8	32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ128GP310-I/PF-ND	14.50	13.05	7.26
															100-TQFP	PIC24HJ128GP310-I/PT-ND	12.90	11.61	6.46
128K x 16	16K	—	53	9/4	2	2	2	8	18-ch. 12-bit; 18-ch. 10 bit	8	32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ256GP206-I/PT-ND	7.17	7.00	6.83
128K x 16	16K	—	85	9/4	2	2	2	8	32-ch. 12-bit; 32-ch. 10-bit	8	32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	PIC24HJ256GP210-I/PF-ND	17.08	15.37	8.56
															100-TQFP	PIC24HJ256GP210-I/PT-ND	15.48	13.93	7.76

dsPIC30F DSCs

Memory Size			I/O	Timer/				Output	Motor				Clock					Price Each		
Program Words	RAM Bytes	EEPROM Bytes	Pins	Counters 16-bit	UART	I^2C™	SPI™	Comp/Std. PWM	Control PWM	A/D	Analog Comp.	Int. Osc.	Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	1	25	100
4K x 24	512	1024	20	3	1	1	1	6	6	6-ch. 10-bit	—	—	20	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F201020IMM-ND	9.83	6.21	5.91
													20			28-SOIC	DSPIC30F201020IS-ND	9.38	6.03	5.73
													20			28-DIP	DSPIC30F201020ISG-ND	9.78	6.06	5.73
													30			28-QFN	DSPIC30F201030IMM-ND	11.30	7.10	6.76
													30			28-SOIC	DSPIC30F201030ISO-ND	10.88	6.92	6.58
													30			28-DIP .3"	DSPIC30F201030ISP-ND	10.93	6.94	6.60
4K x 24	1024	—	12	3	1	1	1	2	—	8-ch. 12-Bit	—	Y (7.37MHz)	20	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F201120IML-ND	7.93	4.49	4.37
													20			18-DIP	DSPIC30F2011-20IP-ND	7.55	4.27	4.16
													20			18-SOIC	DSPIC30F201120ISO-ND	7.55	4.27	4.16
													30			28-QFN	DSPIC30F201130IML-ND	8.90	5.05	4.92
													30			18-DIP	DSPIC30F2011-30IP-ND	8.53	4.84	4.71
													30			18-SOIC	DSPIC30F201130ISO-ND	8.53	4.84	4.71

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40C° ~ 125°C)

(Continued)

General Purpose *(Cont.)*

dsPIC30F DSCs

Memory Size			I/O Pins	Timer/ Counters 16-bit	UART	I^{2}C™	SPI™	Output Comp/Std. PWM	Motor Control PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	25	100
4K x 24	1024	—	20	3	1	1	1	2	—	10-ch. 12-Bit	—	Y (7.37MHz)	20	2.5 ~ 5.5	Ind.	28-QFN	DSPIC30F201220IML-ND	8.70	4.93	4.80
													20			28-SOIC	DSPIC30F201220ISO-ND	8.25	4.68	4.56
													20			28-DIP .3"	DSPIC30F201220ISP-ND	8.33	4.71	4.59
													30			28-QFN	DSPIC30F201230IML-ND	9.80	5.56	5.41
													30			28-SOIC	DSPIC30F201230ISO-ND	9.38	5.32	5.17
													30			28-DIP .3"	DSPIC30F201230ISP-ND	9.40	5.34	5.20
8K x 24	1024	1024	20	5	1	1	1	2	6	6-ch. 10-Bit	—	Y (8MHz)	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301020IML-ND	10.10	5.73	5.57
													20			28-SOIC	DSPIC30F301020ISO-ND	9.78	5.55	5.40
													20			28-DIP .3"	DSPIC30F301020ISP-ND	9.83	5.58	5.43
													30			44-QFN	DSPIC30F301030IML-ND	11.43	6.48	6.31
													30			28-SOIC	DSPIC30F301030ISO-ND	11.10	6.30	6.13
													30			28-DIP .3"	DSPIC30F301030ISP-ND	11.15	6.33	6.16
8K x 24	1024	1024	30	5	2	1	1	4	6	9-ch. 10-Bit	—	Y (8MHz)	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301120IML-ND	11.53	6.53	6.36
													20			40-DIP	DSPIC30F3011-20IP-ND	11.25	6.38	6.21
													20			44-TQFP	DSPIC30F301120IPT-ND	11.30	6.41	6.24
													30			44-QFN	DSPIC30F301130IML-ND	13.08	7.42	7.23
													30			40-DIP	DSPIC30F3011-30IP-ND	12.83	7.27	7.08
													30			44-TQFP	DSPIC30F301130IPT-ND	12.88	7.30	7.11
8K x 24	2048	1024	12	3	1	1	1	2	—	8-ch. 12-bit	—	Y (7.37MHz)	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301220IML-ND	8.18	4.63	4.51
													20			18-DIP	DSPIC30F3012-20IP-ND	7.90	4.48	4.36
													20			18-SOIC	DSPIC30F301220ISO-ND	7.90	4.48	4.36
													30			44-QFN	DSPIC30F301230IML-ND	9.23	5.23	5.09
													30			18-DIP	DSPIC30F3012-30IP-ND	8.98	5.08	4.95
													30			18-SOIC	DSPIC30F301230ISO-ND	8.98	5.08	4.95
8K x 24	2048	1024	20	3	2	1	1	2	—	10-ch. 12-bit	—	Y (7.37MHz)	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301320IML-ND	9.48	5.37	5.23
													20			28-SOIC	DSPIC30F301320ISO-ND	9.15	5.19	5.05
													20			28-DIP .3"	DSPIC30F301320ISP-ND	9.20	5.22	5.08
													30			44-QFN	DSPIC30F301330IML-ND	10.70	6.07	5.91
													30			28-SOIC	DSPIC30F301330ISO-ND	10.38	5.89	5.73
													30			28-DIP .3"	DSPIC30F301330ISP-ND	10.43	5.92	5.76
8K x 24	2048	1024	30	3	2	1	1	2	—	13-ch. 12-bit	—	Y (8MHz)	20	2.5 ~ 5.5	Ind.	44-QFN	DSPIC30F301420IML-ND	10.43	6.90	6.55
													20			40-DIP	DSPIC30F3014-20IP-ND	10.15	6.72	6.38
													20			44-TQFP	DSPIC30F301420IPT-ND	10.18	6.75	6.41
													30			44-QFN	DSPIC30F301430IML-ND	11.78	7.81	7.42
													30			40-DIP	DSPIC30F301430/P-ND	11.53	7.63	7.25
													30			44-TQFP	DSPIC30F301430IPT-ND	11.58	7.66	7.28

NEW! dsPIC33F Devices

Memory Size			I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	Output Comp/Std. PWM	Motor Control PWM	A/D	Int. Osc.	Speed (MHz)	Clock VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Bytes	RAM Bytes	EEPROM Bytes															1	25	100
64K	8	—	53	9/4	2	1	2	8	—	18-ch. 12-bit; 18-ch. 10-bit	32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64GP206-I/PT-ND	9.75	8.78	5.46
64K	16	—	53	9/4	2	2	2	8	—	18-ch. 12-bit; 18-ch. 10-bit	32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64GP306-I/PT-ND	10.18	9.16	5.70
64K	16	—	85	9/4	2	2	2	8	—	32-ch. 12-bit; 32ch. 10-bit	32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ64GP310-I/PF-ND	13.68	12.31	7.68
															100-TQFP	DSPIC33FJ64GP310-I/PT-ND	12.08	10.87	6.77
128K	8K	—	53	9/4	2	1	2	8	—	18-ch. 12-bit; 18-ch. 10-bit	32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128GP206-I/PT-ND	11.05	9.95	6.20
128K	16K	—	53	9/4	2	2	2	8	—	18-ch. 12-bit; 18-ch. 10-bit	32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128GP306-I/PT-ND	11.48	10.33	6.44
128K	16K	—	85	9/4	2	2	2	8	—	32-ch. 12-bit; 32ch. 10-bit	32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP	DSPIC33FJ128GP310-I/PF-ND	14.98	13.48	8.39
															100-TQFP	DSPIC33FJ128GP310-I/PT-ND	13.38	12.04	7.49

Application Specific *Flash* Microcontrollers

NEW! Ethernet

PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	Ethernet	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	25	100
32K x 16	3808	—	39	2/3	1 (EUSART)	1 MI^{2}C	1	10 base T	5	11-ch 10-bit	2	31kHz	42	2.35 ~ 3.6	Ind.	64-TQFP	PIC18F66J60-I/PT-ND	9.05	8.15	5.10
		—	55	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	15-ch. 10-bit	2	31kHz	42	2.35 ~ 3.6	Ind.	80-TQFP	PIC18F86J60-I/PT-ND	9.90	8.91	5.55
48K x 16	3808	—	39	2/3	1 (EUSART)	1 MI^{2}C	1	10 base T	5	11-ch. 10-bit	2	31kHz	42	2.35 ~ 3.6	Ind.	64-TQFP	PIC18F66J65-I/PT-ND	9.78	8.80	5.48
		—	55	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	15-ch. 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	80-TQFP	PIC18F86J65-I/PT-ND	10.63	9.57	5.96
		—	70	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	16-ch. 10-bit	2	31kHz	42	2.35 ~ 3.6	Ind.	100-TQFP	PIC18F96J65-I/PT-ND	11.63	10.47	6.52
		—	70	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	16-ch. 10-bit	2	31kHz	42	2.35 ~ 3.6	Ind.	100-TQ FP	PIC18LF96J65-I/PT-ND	16.13	14.52	9.02
64K x 16	3808	—	39	2/3	1 (EUSART)	1 MI^{2}C	1	10 base T	5	11-ch. 10-bit	2	31kHz	42	2.35 ~ 3.6	Ind.	64-TQFP	PIC18F67J60-I/PT-ND	10.48	9.43	5.87
		—	55	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	15-ch 10-bit	2	32kHz	42	2.35 ~ 3.6	Ind.	80-TQFP	PIC18F87J60-I/PT-ND	11.35	10.22	6.36
		—	70	2/3	2 (EUSART)	1 MI^{2}C	1	10 base T	5	16-ch. 10-bit	2	31kHz	42	2.35 ~ 3.6	Ind.	100-TQFP	PIC18F97J60-I/PF-ND	12.93	11.64	7.24

Motor Control

PIC12F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
2K x 14	128	256	6	2/1	—	—	—	1	4-ch. 10-bit	1	Y (8MHz)	20	2.0 ~ 5.5	Ind.	8-DIP	PIC12F683-I/MD-ND ***NEW!***	2.83	2.55	1.77
															8-DFN	PIC12F683-I/MF-ND	2.33	2.10	1.16
															8-DIP	PIC12F683-I/P-ND	2.23	2.01	1.12
															8-SOIC	PIC12F683-I/SN-ND	2.08	1.87	1.04

PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
4K x 16	768	256	22	1/3	1 (EUSART)	1	1	8	5-ch. 10-bit	—	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-SOIC	PIC18F2331-I/SO-ND	9.33	5.76	5.45
															28-DIP .3"	PIC18F2331-I/SP-ND	9.38	5.79	5.48

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40°F ~ 257°F (-40°C ~ 125°C)

(Continued)

Motor Control *(Cont.)*

PIC18F Devices *(Cont.)*

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes															1	25	100
4K x 16	768	256	24	1/3	1 (EUSART)	1	1	6	5-ch. 10-bit	—	Y (8MHz)	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2331-I/MM-ND PIC18LF2331-I/SO-ND PIC18LF2331-I/SP-ND	9.35 10.28 10.30	6.01 6.34 6.37	5.69 6.02 6.03
4K x 16	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4331-I/ML-ND PIC18F4331-I/P-ND PIC18F4331-I/PT-ND	10.63 10.25 10.30	6.57 6.33 6.37	6.22 6.00 6.03
4K x 16	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	Y (8MHz)	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4331-I/ML-ND PIC18LF4331-I/P-ND PIC18LF4331-I/PT-ND	11.70 11.28 11.35	7.23 6.97 7.03	6.85 6.61 6.65
8K x 16	768	256	22	1/3	1 (EUSART)	1	1	8	5-ch. 10-bit	—	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2431-I/SO-ND PIC18F2431-I/SP-ND	9.65 9.70	5.96 5.99	5.65 5.68
8K x 16	768	256	24	1/3	1 (EUSART)	1	1	6	5-ch. 10-bit	—	Y (8MHz)	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2431-I/SO-ND PIC18LF2431-I/SP-ND	10.63 10.70	6.57 6.60	6.22 6.26
8K x 16	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4431-I/ML-ND PIC18F4431-I/P-ND PIC18F4431-I/PT-ND	10.95 10.58 10.65	6.77 6.54 6.59	6.40 6.20 6.24
8K x 16	768	256	34	1/3	1 (EUSART)	1	1	8	9-ch. 10-bit	—	Y (8MHz)	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4431-I/ML-ND PIC18LF4431-I/P-ND PIC18LF4431-I/PT-ND	12.05 11.63 11.73	7.43 7.18 7.25	7.05 6.80 6.86

NEW! dsPIC33F Devices

Memory Size			I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	Output Comp/Std. PWM	Motor Control PWM	A/D	Int. Osc.	Speed (MHz)	Clock VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Bytes	RAM Bytes	EEPROM Bytes															1	25	100
128K	8K	—	53	9/4	2	2	2	8	8	16-ch. 12-bit; 16-ch. 10-bit	32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128MC506-I/PT-ND	11.88	10.69	6.66
128K	8K	—	85	9/4	2	2	2	8	8	24-ch. 12-bit; 24-ch. 10-bit	32kHz	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	DSPIC33FJ128MC510-I/PF-ND DSPIC33FJ128MC510-I/PT-ND	15.38 13.78	13.84 12.40	8.61 7.73
128K	16K	—	53	9/4	2	2	2	8	8	16-ch. 12-bit; 16-ch. 10-bit	32kHz	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128MC706-I/PT-ND	6.77	6.61	6.45

CAN (Controller Area Network)

PIC18F Devices

Memory Size			I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	CAN	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	25	100
8K x 16	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2480-I/ML-ND PIC18F2480-I/SO-ND PIC18F2480-I/SP-ND	10.25 9.73 9.80	6.32 6.01 6.06	5.99 5.70 5.74
8K x 16	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	Y (8MHz)	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2480-I/ML-ND PIC18LF2480-I/SO-ND PIC18LF2480-I/SP-ND	10.25 9.73 9.80	6.32 6.01 6.06	5.99 5.70 5.74
8K x 16	768	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4480-I/ML-ND PIC18F4480-I/P-ND PIC18F4480-I/PT-ND	11.08 10.75 10.80	6.84 6.63 6.67	6.49 6.29 6.32
8K x 16	768	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8 MHz 32 kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4480-I/ML-ND PIC18LF4480-I/P-ND PIC18LF4480-I/PT-ND	11.63 11.28 11.33	8.11 7.87 7.92	7.68 7.45 7.50
16K x 16	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	—	40	4.2 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2580-I/ML-ND PIC18F2580-I/SO-ND PIC18F2580-I/SP-ND	11.18 10.70 10.75	6.90 6.60 6.63	6.54 6.26 6.29
16K x 16	1536	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch 10-bit	—	8 MHz 32 kHz	40	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2580-I/ML-ND PIC18LF2580-I/SO-ND PIC18LF2580-I/SP-ND	11.75 11.23 11.28	8.21 7.46 7.87	7.77 7.07 7.45
16K x 16	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4580-I/ML-ND PIC18F4580-I/P-ND PIC18F4580-I/PT-ND	12.00 11.73 11.75	7.42 7.25 7.26	7.03 6.86 6.88
16K x 16	1536	256	36	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	2	11-ch. 10-bit	2	8 MHz 32 kHz	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4580-I/ML-ND PIC18LF4580-I/P-ND PIC18LF4580-I/PT-ND	12.60 12.28 12.35	8.80 8.58 8.62	8.33 8.13 8.17
24K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2585-I/SO-ND PIC18F2585-I/SP-ND	11.58 11.80	7.15 7.29	6.77 6.91
24K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	CAN 2.0B	1	8-ch. 10-bit	—	Y (8MHz)	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2585-I/SO-ND PIC18LF2585-I/SP-ND	12.18 12.43	7.52 7.68	7.12 7.27
24K x 16	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4585-I/ML-ND PIC18F4585-I/P-ND PIC18F4585-I/PT-ND	13.18 12.78 12.85	8.14 7.88 7.95	7.70 7.47 7.53
24K x 16	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4585-I/ML-ND PIC18LF4585-I/P-ND PIC18LF4585-I/PT-ND	15.70 15.33 15.43	9.71 9.46 9.53	9.19 8.97 9.02
24K x 16	3328	1024	53	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	64-TQFP	PIC18F6585-I/PT-ND	14.13	8.72	8.25
24K x 16	3328	1024	52	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	68-PLCC 64-TQFP	PIC18LF6585-I/L-ND PIC18LF6585-I/PT-ND	15.28 14.85	11.89 9.17	10.35 8.68
24K x 16	3328	1024	68	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	16-ch. 10-bit	2	—	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP 80-TQFP	PIC18F8585-I/PT-ND PIC18LF8585-I/PT-ND	14.83 15.55	9.15 9.60	8.66 9.09
32K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	1	8-ch. 10-bit	—	Y (8MHz)	40	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2680-I/SO-ND PIC18F2680-I/SP-ND	12.53 12.78	7.75 7.88	7.34 7.47
32K x 16	3328	1024	25	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	1	8-ch. 10-bit	—	Y (8MHz)	40	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2680-I/SO-ND PIC18LF2680-I/SP-ND	13.20 13.43	8.16 8.31	7.73 7.87
32K x 16	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4680-I/ML-ND PIC18F4680-I/P-ND PIC18F4680-I/PT-ND	14.13 13.78 13.85	8.72 8.51 7.92	8.25 8.06 7.70
32K x 16	3328	1024	36	1/3	1 (EUSART)	1 MI^{2}C	1	ECAN	5	11-ch. 10-bit	2	Y (8MHz)	40	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4680-I/ML-ND PIC18LF4680-I/P-ND PIC18LF4680-I/PT-ND	16.88 16.48 16.60	10.43 10.18 10.25	9.87 9.63 9.70
32K x 16	3328	1024	52	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	4.2 ~ 5.5	Ind.	64-TQFP 68-PLCC	PIC18F6680-I/PT-ND PIC18F6680-I/L-ND	15.15 15.55	9.36 9.60	8.87 9.09
32K x 16	3328	1024	52	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	12-ch. 10-bit	2	—	40	2.0 ~ 5.5	Ind.	68-PLCC 64-TQFP	PIC18LF6680-I/L-ND PIC18LF6680-I/PT-ND	16.08 15.93	9.93 9.84	9.41 9.32
32K x 16	3328	1024	68	2/3	1 (AUSART)	1 MI^{2}C	1	ECAN	5	16-ch. 10-bit	2	—	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP 80-TQFP	PIC18F8680-I/PT-ND PIC18LF8680-I/PT-ND	15.80 16.60	9.76 10.26	9.24 9.71

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40° F~ 257°F (-40°C ~ 125°C)

(Continued)

CAN (Controller Area Network) *(Cont.)*

NEW! PIC24HJ Devices

Memory Size			I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	CAN	PWM	A/D	Capture/ Compare	Int. Osc. (kHz)	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																1	25	100
32K x 16	8	—	53	9/4	2	2	2	1	8	18-ch. 12-bit; 18-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ64GP506-I/PT-ND	5.19	5.07	4.94
32K x 16	8	—	85	—/9	2	2	2	1	8	32-ch. 12-bit; 32-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	PIC24HJ64GP510-I/PF-ND PIC24HJ64GP510-I/PT-ND	13.33 11.73	12.00 10.56	6.67 5.87
64K x 16	8	—	53	—/9	2	2	2	1	8	18-ch. 12-bit; 18-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	64-TQFP	PIC24HJ128GP506-I/PT-ND	11.18	10.06	5.60
64K x 16	8	—	85	—/9	2	2	2	1	8	32-ch. 12-bit; 32-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	PIC24HJ128GP510-I/PF-ND PIC24HJ128GP510-I/PT-ND	14.63 13.03	13.17 11.73	7.33 6.53
128K x 16	16	—	85	—/9	2	2	2	2	8	32-ch. 12-bit; 32-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	PIC24HJ256GP610-I/PF-ND PIC24HJ256GP610-I/PT-ND	9.84 17.13	9.61 15.42	9.38 8.58

dsPIC30F DSCs

Memory Size			I/O Pins	Timer/ Counters 16-bit	UART	I^{2}C™	SPI™	CAN	Output Comp/Std. PWM	Motor Control PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Words	RAM Bytes	EEPROM Bytes																	1	25	100
16K x 24	2048	1024	30	5	2	1	1	1	4	6	9-ch. 10-bit	—	Y (8MHz)	20 20 20 30 30 30	2.5 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP 44-QFN 40-DIP 44-TQFP	DSPIC30F401120/ML-ND DSPIC30F4011-20IP-ND DSPIC30F401120IPT-ND DSPIC30F401130IML-ND DSPIC30F4011-30IP-ND DSPIC30F401130IPT-ND	14.25 13.98 14.03 16.45 16.18 16.23	9.02 8.91 8.93 10.35 10.24 10.26	8.58 8.47 8.49 9.84 9.73 9.75
16K x 24	2048	1024	20	5	1	1	1	1	2	6	6-ch. 10-bit	—	Y (8MHz)	20 20 20 30 30 30	2.5 ~ 5.5	Ind.	44-QFN 28-SOIC 28-DIP .3" 44-QFN 28-SOIC 28-DIP .3"	DSPIC30F401220IML-ND DSPIC30F401220ISO-ND DSPIC30F401220ISP-ND DSPIC30F401230IML-ND DSPIC30F401230ISO-ND DSPIC30F401230ISP-ND	12.80 12.50 12.53 14.78 14.48 14.50	8.01 7.88 7.90 9.20 9.07 9.09	7.62 7.49 7.51 8.74 8.61 8.63
16K x 24	2048	1024	30	5	2	1	1	1	4	—	13-ch. 12-bit	—	Y (8MHz)	20 20 20 30 30 30	2.5 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP 44-QFN 40-DIP 44-TQFP	DSPIC30F401320IML-ND DSPIC30F4013-20IP-ND DSPIC30F401320IPT-ND DSPIC30F401330IML-ND DSPIC30F4013-30IP-ND DSPIC30F401330IPT-ND	13.33 13.05 13.10 15.15 14.88 14.93	8.83 8.66 8.69 10.03 9.86 9.89	8.39 8.22 8.25 9.53 9.36 9.39
22K x 24	4096	1024	52	5	2	1	2	2	8	—	16-ch. 12-bit	—	—	20 30	2.5 ~ 5.5	Ind.	64-TQFP 64-TQFP	DSPIC30F501120IPT-ND DSPIC30F501130IP-ND	17.50 20.25	11.02 12.67	10.47 12.04
22K x 24	4096	1024	68	5	2	1	2	2	8	—	16-ch. 12-bit	—	—	20 30	2.5 ~ 5.5	Ind.	80-TQFP 80-TQFP	DSPIC30F501320IPT-ND DSPIC30F501330IPT-ND	18.83 21.80	11.89 13.68	11.29 13.00
22K x 24	2048	1024	52	5	1	1	2	1	4	8	16-ch. 10-bit	—	Y (8MHz)	20 30	2.5 ~ 5.5	Ind.	64-TQFP 64-TQFP	DSPIC30F501520IPT-ND DSPIC30F501530IPT-ND	17.58 20.08	9.97 11.38	9.71 11.08
22K x 24	2048	1024	68	5	1	1	2	1	4	8	16-ch. 10-bit	—	Y (8MHz)	20 30	2.5 ~ 5.5	Ind.	80-TQFP 80-TQFP	DSPIC30F501620IPT-ND DSPIC30F501630IPT-ND	18.83 21.53	10.68 12.21	10.40 11.88
44K x 24	6144	2048	52	5	2	1	2	2	8	—	16-ch. 12-bit	—	—	20 20 30 30 30	2.5 ~ 5.5	Ind.	64-TQFP 64-TQFP 64-TQFP 64-TQFP 64-TQFP	DSPIC30F601120IPF-ND DSPIC30F6011A20IP-ND DSPIC30F601130IPF-ND DSPIC30F6011A30IP-ND DSPIC30F6011A-30I/PF-ND ***NEW!***	25.08 20.08 30.08 22.93 19.08	14.37 11.38 16.53 13.01 17.17	13.65 11.08 15.70 12.67 10.69
44K x 24	6144	2048	68	5	2	1	2	2	8	—	16-ch. 12-bit	—	—	20 20 30 30 30	2.5 ~ 5.5	Ind.	80-TQFP 80-TQFP 80-TQFP 80-TQFP 80-TQFP	DSPIC30F601320IPF-ND DSPIC30F6013A20IP-ND DSPIC30F601330IPF-ND DSPIC30F6013A30IP-ND DSPIC30F6013A-30I/PF-ND ***NEW!***	25.53 21.25 30.65 24.30 19.93	15.26 12.05 17.54 13.78 17.94	14.50 11.73 16.66 13.41 11.17
48K x 24	8192	4096	68	5	2	1	2	2	8	8	16-ch. 10-bit	—	—	30 20 20 30 30	2.5 ~ 5.5	Ind.	80-TQFP 80-TQFP 80-TQFP 80-TQFP 80-TQFP	DSPIC30F6010A-30I/PF-ND ***NEW!*** DSPIC30F601020IPF-ND DSPIC30F6010A20IP-ND DSPIC30F601030IPF-ND DSPIC30F6010A30IP-ND	20.43 28.08 24.08 32.55 27.55	18.39 17.38 13.66 19.98 15.63	11.44 16.51 13.29 18.98 15.21
48K x 24	8192	4096	52	5	2	1	2	2	8	—	16-ch. 12-bit	—	—	20 20 30 30 30	2.5 ~ 5.5	Ind.	64-TQFP 64-TQFP 64-TQFP 64-TQFP 64-TQFP	DSPIC30F601220IPF-ND DSPIC30F6012A20IP-ND DSPIC30F601230IPF-ND DSPIC30F6012A30IP-ND DSPIC30F6012A-30I/PF-ND ***NEW!***	26.23 22.28 30.38 25.50 19.38	16.03 12.64 18.43 14.47 17.44	15.23 12.31 17.51 14.08 10.85
48K x 24	8192	4096	68	5	2	1	2	2	8	—	16-ch. 12-bit	—	—	20 30 30 30	2.5 ~ 5.5	Ind.	80-TQFP 80-TQFP 80-TQFP 80-TQFP	DSPIC30F601420IPF-ND DSPIC30F601430IPF-ND DSPIC30F6014A30IP-ND DSPIC30F6014A-30I/PF-ND ***NEW!***	27.50 31.85 26.88 20.43	16.93 19.47 15.25 18.39	16.08 18.50 14.85 11.44
48K x 24	8192	4096	52	5	2	1	2	1	6	8	16-ch. 10-bit	—	—	20 30	2.5 ~ 5.5	Ind.	64-TQFP 64-TQFP	DSPIC30F601520IPT-ND DSPIC30F601530IPT-ND	24.13 27.63	13.68 15.67	13.32 15.25

NEW! dsPIC33F Devices

Memory Size			I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	CAN	Output Comp/Std. PWM	Motor Control PWM	A/D	Capture/ Compare	Int. Osc. (kHz)	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	Price Each		
Program Bytes	RAM Bytes	EEPROM Bytes																	1	25	100
64K	16	—	53	9	2	2	2	2	8	—	18-ch 12-bit; 18-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64GP706-I/PT-ND	11.80	10.62	6.62
64K	16	—	69	9	2	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ64GP708-I/PT-ND	12.65	11.39	7.09
64K	16	—	85	9	2	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	DSPIC33FJ64GP710-I/PF-ND DSPIC33FJ64GP710-I/PT-ND	15.30 13.70	13.77 12.33	8.57 7.69
64K	8	—	53	9	2	2	2	1	8	—	18-ch. 12-bit; 18-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64MC506-I/PT-ND	10.58	9.52	5.93
64K	8	—	69	9	2	2	2	1	8	—	18-ch. 12-bit; 18-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ64MC508-I/PT-ND	11.43	10.29	6.40
64K	8	—	85	9	2	2	2	1	8	—	32-ch. 12-bit; 32-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	DSPIC33FJ64MC510-I/PF-ND DSPIC33FJ64MC510-I/PT-ND	14.05 12.45	12.65 11.21	7.88 6.98
64K	16	—	53	9	2	2	2	2	8		18-ch. 12-bit; 18-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ64MC706-I/PT-ND	11.55	10.40	6.47
64K	16	—	85	9	2	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	DSPIC33FJ64MC710-I/PF-ND DSPIC33FJ64MC710-I/PT-ND	15.53 13.93	13.98 12.54	8.69 7.79
128K	16	—	53	9	2	2	2	2	8	—	18-ch. 12-bit; 18-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128GP706-I/PT-ND	6.90	6.74	6.58
128K	16	—	69	9	2	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ128GP708-I/PT-ND	13.95	12.56	7.82
128K	16	—	85	9	2	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	DSPIC33FJ128GP710-I/PF-ND DSPIC33FJ128GP710-I/PT-ND	16.60 15.00	14.94 13.50	9.31 8.41

Note: **Operating Temperature Range:** • Industrial: -40°F ~ 185°F (-40°C ~ 85°C) • Commercial: 32°F ~ 158°F (0°C ~ 70°C) • Extended: -40° F~ 257°F (-40°C ~ 125°C)

(Continued)

CAN (Controller Area Network) *(Cont.)*

NEW! dsPIC33F Devices *(Cont.)*

Memory Size																			Price Each	
Program Bytes	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 16/32-bit	UART	I^{2}C™	SPI™	CAN	Output Comp/Std. PWM	Motor Control PWM	A/D	Capture/ Compare	Int. Osc. (kHz)	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	1	25	100
128K	16	—	53	9/4	2	2	2	2	8	—	18-ch. 12-bit; 18-ch.10-bit	8	32	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ128MC706-I/PT-ND	6.77	6.61	6.45
128K	16	—	69	9	2	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	80-TQFP	DSPIC33FJ128MC708-I/PT-ND	14.18	12.76	7.96
128K	16	—	85	9	2	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	DSPIC33FJ128MC710-I/PF-ND DSPIC33FJ128MC710-I/PT-ND	16.83 15.23	15.15 13.71	9.44 8.53
256K	16	—	53	9	2	2	2	1	8	—	24-ch. 12-bit; 24-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	64-TQFP	DSPIC33FJ256GP506-I/PT-ND	14.58	13.12	8.17
256K	16	—	85	9	2	2	2	1	8	—	32-ch. 12-bit; 32-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	DSPIC33FJ256GP510-I/PF-ND DSPIC33FJ256GP510-I/PT-ND	18.08 16.48	16.27 14.83	10.13 9.23
256K	16	—	85	9	2	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	DSPIC33FJ256GP710-I/PF-ND DSPIC33FJ256GP710-I/PT-ND	19.88 18.30	17.89 16.47	11.14 10.27
256K	16	—	85	9	2	2	2	1	8	—	32-ch. 12-bit; 32-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	DSPIC33FJ256MC510-I/PF-ND DSPIC33FJ256MC510-I/PT-ND	18.30 16.70	16.47 15.03	10.25 9.36
256K	30	—	85	9	2	2	2	2	8	—	24-ch. 12-bit; 24-ch. 10-bit	8	32	64	3.0 ~ 3.6	Ind.	100-TQFP 100-TQFP	DSPIC33FJ256MC710-I/PF-ND DSPIC33FJ256MC710-I/PT-ND	20.13 18.53	18.12 16.68	11.27 10.39

USB (Universal Serial Bus)

PIC18 Devices

Memory Size																			Price Each	
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	USB	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	1	25	100
8K x 16	768	—	23	1/2	1 (EUSART)	—	—	V2.0 FS 12Mbit/S.	1	10-ch. 10-bit	—	8MHz 32kHz	48	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18F2450-I/ML-ND ***NEW!*** PIC18F2450-I/SO-ND ***NEW!*** PIC18F2450-I/SP-ND ***NEW!***	6.70 6.40 6.53	6.03 5.76 5.88	3.69 3.60 3.65
8K x 16	768	—	23	1/2	1 (EUSART)	—	—	V2.0 FS 12Mbit/S.	1	10-ch. 10-bit	—	8MHz 32kHz	48	2.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3"	PIC18LF2450-I/ML-ND ***NEW!*** PIC18LF2450-I/SO-ND ***NEW!*** PIC18LF2450-I/SP-ND ***NEW!***	7.03 6.73 6.85	6.33 6.06 6.17	3.89 3.78 3.83
8K x 16	768	—	34	1/2	1 (AUSART)	—	—	V2.0 FS 12Mbit/S.	1	13-ch. 10-bit	—	8MHz 32kHz	48	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4450-I/ML-ND ***NEW!*** PIC18F4450-I/P-ND ***NEW!*** PIC18F4450-I/PT-ND ***NEW!***	7.90 7.68 7.73	7.11 6.91 6.96	4.37 4.31 4.33
8K x 16	768	—	34	1/2	1 (AUSART)	—	—	V2.0 FS 12Mbit/S.	1	13-ch. 10-bit	—	8MHz 32kHz	48	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4450-I/ML-ND ***NEW!*** PIC18LF4450-I/P-ND ***NEW!*** PIC18LF4450-I/PT-ND ***NEW!***	8.30 8.08 8.10	7.47 7.27 7.29	4.65 4.52 4.54
12K x 16	2048	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	Y (8MHz)	48	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2455-I/SO-ND PIC18F2455-I/SP-ND	9.38 9.45	5.79 5.83	5.38 5.42
12K x 16	2048	256	25	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	Y (8MHz)	48	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2455-I/SO-ND PIC18LF2455-I/SP-ND	11.28 11.33	6.97 6.99	6.61 6.62
12K x 16	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	Y (8MHz)	48	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4455-I/ML-ND PIC18F4455-I/P-ND PIC18F4455-I/PT-ND	10.78 10.43 10.48	6.65 6.45 6.47	6.30 5.99 6.14
12K x 16	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	Y (8MHz)	48	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4455-I/ML-ND PIC18LF4455-I/P-ND PIC18LF4455-I/PT-ND	12.85 12.50 12.55	7.94 7.73 7.76	7.52 7.32 7.35
16K x 16	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	Y (8MHz)	48	4.2 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18F2550-I/SO-ND PIC18F2550-I/SP-ND	10.03 10.08	6.19 6.22	5.75 5.78
16K x 16	2048	256	24	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	10-ch. 10-bit	2	Y (8MHz)	48	2.0 ~ 5.5	Ind.	28-SOIC 28-DIP .3"	PIC18LF2550-I/SO-ND PIC18LF2550-I/SP-ND	12.03 12.08	7.43 7.47	7.04 7.07
16K x 16	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	Y (8MHz)	48	4.2 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18F4550-I/ML-ND PIC18F4550-I/P-ND PIC18F4550-I/PT-ND	11.80 11.43 11.53	7.29 7.05 7.11	6.91 6.68 6.74
16K x 16	2048	256	35	1/3	1 (EUSART)	1 MI^{2}C	1	V2.0 FS 12Mbit/S.	2	13-ch. 10-bit	2	Y (8MHz)	48	2.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC18LF4550-I/ML-ND PIC18LF4550-I/P-ND PIC18LF4550-I/PT-ND	14.10 13.73 13.80	8.71 8.48 8.52	8.25 8.02 8.06

LCD (Liquid Crystal Display)

PIC16 Devices

Memory Size																			Price Each	
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	LCD Segments	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	1	25	100
4K x 14	256	256	24	2/1	1 (AUSART)	2 MI^{2}C	1	60	—	5-ch. 10-bit	2	8 MHz	20	4.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-DIP .3" 28-SSOP	PIC16F913-I/ML-ND PIC16F913-I/SO-ND PIC16F913-I/SP-ND PIC16F913-I/SS-ND	4.73 4.08 4.45 4.00	4.26 3.67 2.66 3.60	2.37 2.05 2.60 2.01
4K x 14	256	256	35	2/1	1 (AUSART)	2 MI^{2}C	1	96	—	8-ch. 10-bit	2	8 MHz	20	4.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC16F914-I/ML-ND ***NEW!*** PIC16F914-I/P-ND PIC16F914-I/PT-ND	5.10 4.78 4.70	4.59 4.30 4.23	2.55 2.39 2.35
8K x 14	352	256	24	2/1	1 (AUSART)	1	1	60	—	5-ch. 10-bit	2	8 MHz	20	4.0 ~ 5.5	Ind.	28-QFN 28-SOIC 28-SDIP 28-SSOP	PIC16F916-I/ML-ND PIC16F916-I/SO-ND PIC16F916-I/SP-ND PIC16F916-I/SS-ND	5.23 4.60 5.00 4.53	4.71 4.14 2.83 4.08	2.62 2.30 2.76 2.26
8K x 14	352	256	35	2/1	1 (AUSART)	1	1	96	—	8-ch. 10-bit	2	8MHz 32kHz	20	4.0 ~ 5.5	Ind.	44-QFN 40-DIP 44-TQFP	PIC16F917-I/ML-ND ***NEW!*** PIC16F917-I/P-ND PIC16F917-I/PT-ND	5.73 5.40 5.33	5.16 4.86 4.80	2.87 2.71 2.67
8K x 14	336	256	53	2/1	1 (AUSART)	1	1	168		8-ch. 10-bit	2	8MHz 32kHz	20	2.0 ~ 5.5	Ind.	64-TQFP	PIC16F946-I/PT-ND ***NEW!***	5.30	4.77	2.93

PIC18 Devices

Memory Size																			Price Each	
Program Words	RAM Bytes	EEPROM Bytes	I/O Pins	Timer/ Counters 8/16-bit	UART	I^{2}C™	SPI™	LCD Segments	PWM	A/D	Analog Comp.	Int. Osc.	Clock Speed (MHz)	VCC (V)	Operating Temp.	Pkg.	Digi-Key Part No.	1	25	100
4K x 16	768	—	50	1/3	1(AUSART) & 1 (EUSART)	1 MI^{2}C	1	128	2	12-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP 64-TQFP	PIC18F6390-I/PT-ND PIC18LF6390-I/PT-ND	7.35 8.83	4.54 5.45	4.53 5.16
4K x 16	768	—	66	1/3	1(AUSART) & 1 (EUSART)	1 MI^{2}C	1	192	2	12-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP 80-TQFP	PIC18F8390-I/PT-ND PIC18LF8390-I/PT-ND	8.35 10.03	5.16 6.19	4.89 5.86
8K x 16	768	—	50	1/3	1(AUSART) & 1 (EUSART)	1 MI^{2}C	1	128	2	12-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	64-TQFP 64-TQFP	PIC18F6490-I/PT-ND PIC18LF6490-I/PT-ND	8.03 9.65	4.96 5.96	4.95 5.64
8K x 16	768	—	66	2/3	1(AUSART) & 1 (EUSART)	1 MI^{2}C	1	192	2	12-ch. 10-bit	2	Y (8MHz)	40	4.2 ~ 5.5 2.0 ~ 5.5	Ind.	80-TQFP 80-TQFP	PIC18F8490-I/PT-ND PIC18LF8490-I/PT-ND	9.23 11.08	5.70 6.84	5.41 6.47

MICROCHIP Development System Matrix

Pricing follows these Matrix pages.

MPLAB® ICE 2000

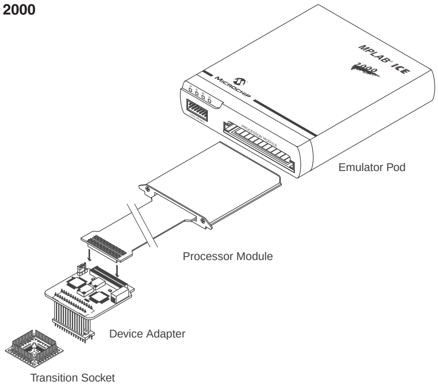

MPLAB® ICE 4000

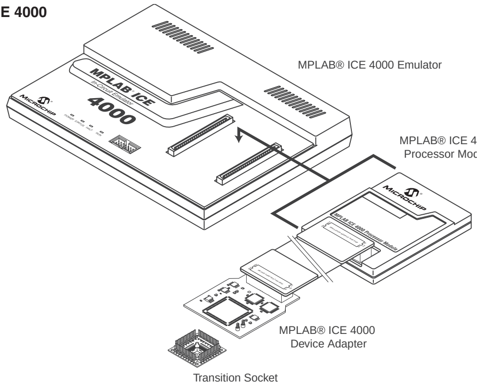

MPLAB® PM3

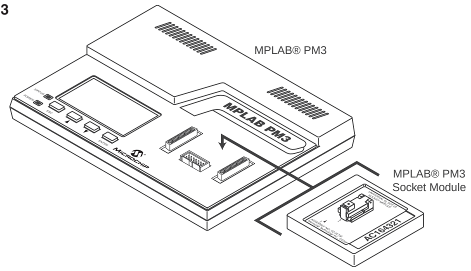

MPLAB ICD2

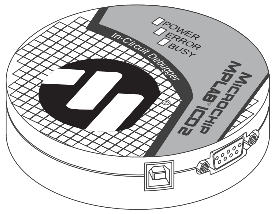

Part No.	Lead Count/ Pkg. Type	MPLAB® ICE 2000 System			MPLAB® ICE 4000 System			PRO MATE® II (◊)	MPLAB® PM3* (†)	PICSTART® Plus	MPLAB® ICD 2	MPLAB® CXX Compiler	Demonstration Boards or Evaluation Kits
		Processor Module	Device Adapters	Transition Socket	Processor Module	Device Adapters	Transition Socket	Socket Module	Socket Module				
PIC10F Microcontroller Products													
PIC10F200	6OT							AC164037	AC164321	AC163020	AC162059 and XLT06SOT		DV164101 or DV164120 and AC163020
PIC10F200	8P							AC164037	AC164301	√	AC162059		DV164101, DV164120
PIC10F202	6OT							AC164037	AC164321	AC163020	AC162059 and XLT06SOT		DV164101 or DV164120 and AC163020
PIC10F202	8P							AC164037	AC164301	√	AC162059		DV164101, DV164120
PIC10F204	6OT							AC164037	AC164321	AC163020	AC162059 and XLT06SOT		DV164101 or DV164120 and AC163020
PIC10F204	8P							AC164037	AC164301	√	AC162059		DV164101, DV164120
PIC10F206	6OT							AC164037	AC164321	AC163020	AC162059 and XLT06SOT		DV164101 or DV164120 and AC163020
PIC10F206	8P							AC164037	AC164301	√	AC162059		DV164101, DV164120
PIC10F220	6OT							AC164037*	AC164321*	AC163020	AC162059* and XLT06SOT		DV164101 or DV164120 and AC163020
PIC10F220	8P							AC164037*	AC164301*	√*	AC162059*		DV164101, DV164120
PIC10F222	6OT							AC164037*	AC164321*	AC163020	AC162059* and XLT06SOT		DV164101 or DV164120 and AC163020
PIC10F222	8P							AC164037*	AC164301*	√*	AC162059*		DV164101, DV164120
PIC12F Microcontroller Products													
PIC12F508	8P	PCM16XA0	DVA12XP080					AC124001	AC164301	√	AC162059		DM163014, DV164101, DV164120, DM163029
PIC12F508	8SN	PCM16XA0	DVA12XP080	XLT08SO				AC164026	AC164302		AC162059 and XLT08SO		
PIC12F508	8MS	PCM16XA0	DVA12XP080						AC164325*				
PIC12F509	8P	PCM16XA0	DVA12XP080					AC124001	AC164301	√	AC162059		DM163014, DV164101, DV164120, DM163029
PIC12F509	8SM												
PIC12F509	8SN	PCM16XA0	DVA12XP080	XLT08SO				AC164026	AC164302		AC162059 and XLT08SO		
PIC12F509	8MS	PCM16XA0	DVA12XP080						AC164325*				
PIC12F510	8P							AC124001*	AC164301*				DV164101*, DV164120, DM163029
PIC12F510	8SN							AC164026*	AC164302*				
PIC12F510	8MS												
PIC12F629	8P	PCM12XB0	DVA12XP081					AC124001	AC164301	√	AC162050		DM163014, DV164101, DV164120, DM163029
PIC12F629	8SN	PCM12XB0	DVA12XP081	XLT08SO				AC164026	AC164302		AC162050 and XLT08SO		
PIC12F629	8MF	PCM12XB0	DVA12XP081	XLT08DFN or XLT08DFN2				AC124001 and AC164032	AC164301 and AC164032	AC164032	AC162050 and XLT08DFN or XLT08DFN2		
PIC12F629	8MD												

† MPLAB® PM3 Programmer Unit available separately. ICSP™ function is built-in with MPLAB® PM3 Programmer. †† Custom adapter required; not available from Microchip. See "Readme" for PICSTART® Plus * New Product or future support. √ Supported with basic configuration. If a part number is listed in the column, that part is required and available separately. ◊ Optional ICSP® In-Circuit Serial Programming™ Socket for PRO MATE ® II available separately. (AC004004)

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Development System Matrix *(Cont.)*

Pricing follows these Matrix pages.

Part No.	Lead Count/ Pkg. Type	MPLAB® ICE 2000 System			MPLAB® ICE 4000 System			PRO MATE® II (◊)	MPLAB® PM3* (†)	PICSTART® Plus	MPLAB® ICD 2	MPLAB® CXX Compiler	Demonstration Boards or Evaluation Kits
		Processor Module	Device Adapters	Transition Socket	Processor Module	Device Adapters	Transition Socket	Socket Module	Socket Module				
PIC12F635	8P	PCM16YM0						AC124001	AC164301	√	AC162057		DM163014, DV164101, DV164120, DM163029
PIC12F635	8SN	PCM16YM0		XLT08SO				AC164026	AC164302		AC162057 and XLT08SO		
PIC12F635	8MF	PCM16YM0		XLT08DFN or XLT08DFN2				AC124001 and AC164032	AC164301 and AC164032	AC164032	AC162050 and XLT08DFN or XLT08DFN2		
PIC12F635	8MD												
PIC12F675	8P	PCM12XB0	DVA12XP081					AC124001	AC164301	√	AC162050		DM163014, DV164101, DV164120, DM163029
PIC12F675	8SN	PCM12XB0	DVA12XP081	XLT08SO				AC164026	AC164302		AC162050 and XLT08SO		
PIC12F675	8MF	PCM12XB0	DVA12XP081	XLT08DFN or XLT08DFN2				AC124001 and AC164032	AC164301 and AC164032	AC164032	AC162050 and XLT08DFN or XLT08DFN2		
PIC12F675	8MD												
PIC12F683	8P	PCM12XC0						AC124001	AC164301	√	AC162058		DM163014, DV164101, DV164120, DM163029
PIC12F683	8SN	PCM12XC0		XLT08SO				AC164026	AC164302		AC162058 and XLT08SO		
PIC12F683	8MF	PCM12XC0		XLT08DFN or XLT08DFN2				AC124001 and AC164032	AC164301 and 164032	AC164032	AC162058 and XLT08DFN or XLT08DFN2		
PIC12F683	8MD												
PIC16F Microcontroller Products													
PIC16F505	14P	PCM16XA0	DVA16XP140					AC124001	AC164301	√			DM163014, DV164101, DV164120, DM163029
PIC16F505	14SL	PCM16XA0	DVA16XP140					AC164026	AC164302				
PIC16F505	14ST	PCM16XA0	DVA16XP140						AC164306				
PIC16F506	14P							AC124001*	AC164301*				DV164101*, DV164120, DM163029
PIC16F506	14ST								AC164306*				
PIC16F506	14SL												
PIC16F54	18P	PCM16XA0	DVA16XP180					AC164001	AC164301	√			DV164101, DM163001, DV164120
PIC16F54	18SO	PCM16XA0	DVA16XP180	XLT18SO				AC164002	AC164302				
PIC16F54	20SS	PCM16XA0	DVA16XP180	XLT20SS				AC164015	AC164307				
PIC16F57	28P	PCM16XA0	DVA16XP280	XLT28XP				AC164001	AC164301				
PIC16F57	28SP	PCM16XA0	DVA16XP280					AC164001	AC164301	√			DV164120 DV164101, DM163001
PIC16F57	28SO	PCM16XA0	DVA16XP280	XLT28SO				AC164002	AC164302				
PIC16F57	28SS	PCM16XA0	DVA16XP280	XLT28SS2				AC164015	AC164307				
PIC16F59	40P							AC164038	AC164301		√*		DV164101, DV164120
PIC16F59	44PT								AC164305		√*		
PIC16F627A	18P	PCM16YF0	DVA16XP186					AC164010	AC164301	√	AC162053		DM163014
PIC16F627A	18SO	PCM16YF0	DVA16XP186	XLT18SO				AC164010	AC164302		AC162053 and XLT18SO		
PIC16F627A	20SS	PCM16YF0	DVA16XP186	XLT20SS				AC164018	AC164307		AC162053 and XLT20SS		
PIC16F627A	28ML	PCM16YF0	DVA16XP186	XLT28QFN3				AC164010 and AC164033	AC164322	AC164033	AC162053 and XLT28QFN3		
PIC16F628A	18P	PCM16YF0	DVA16XP186					AC164010	AC164301	√	AC162053		DM163014
PIC16F628A	18SO	PCM16YF0	DVA16XP186	XLT18SO				AC164010	AC164302		AC162053 and XLT18SO		
PIC16F628A	20SS	PCM16YF0	DVA16XP186	XLT20SS				AC164018	AC164307		AC162053 and XLT20SS		
PIC16F628A	28ML	PCM16YF0	DVA16XP186	XLT28QFN3				AC164010 and AC164033	AC164322	AC164033	AC162053 and XLT28QFN3		
PIC16F630	14P	PCM16YD0	DVA16XP141					AC124001	AC164301	√	AC162052		DM163014, DV164101, DV164120, DM163029
PIC16F630	14SL	PCM16YD0	DVA16XP141					AC164026	AC164302		AC162052		
PIC16F630	14ST	PCM16YD0	DVA16XP141					AC164026	AC164306		AC162052		
PIC16F630	14ML												
PIC16F636	14P	PCM16YM0						AC124001	AC164301	√	AC162057		DV164120, DM163029
PIC16F636	14SL	PCM16YM0						AC164026	AC164302		AC162057		
PIC16F636	14ST	PCM16YM0						AC164026	AC164306		AC162057		
PIC16F636	14ML												
PIC16F648A	18P	PCM16YF0	DVA16XP186					AC164010	AC164301	√	AC162053		DM163014
PIC16F648A	18SO	PCM16YF0	DVA16XP186	XLT18SO				AC164010	AC164302		AC162053 and XLT18SO		
PIC16F648A	20SS	PCM16YF0	DVA16XP186	XLT20SS				AC164018	AC164307		AC162053 and XLT20SS		
PIC16F648A	28ML	PCM16YF0	DVA16XP186	XLT28QFN3				AC164010 and AC164033	AC164322	AC164033	AC162053 and XLT28QFN3		
PIC16F676	14P	PCM16YD0	DVA16XP141					AC124001	AC164301	√	AC162052		DM163014, DV164101, DV164120, DM163029
PIC16F676	14SL	PCM16YD0	DVA16XP141					AC164026	AC164302		AC162052		
PIC16F676	14ST	PCM16YD0	DVA16XP141					AC164026	AC164306		AC162052		
PIC16F676	14ML												
PIC16F684	14P	PCM16YK0						AC124001	AC164301	√	AC162055		DV164101, DV164120, DM163029
PIC16F684	14SL	PCM16YK0						AC164026	AC164302		AC162055		
PIC16F684	14ST	PCM16YK0						AC164026	AC164306		AC162055		
PIC16F684	16ML												

† MPLAB® PM3 Programmer Unit available separately. ICSP™ function is built-in with MPLAB® PM3 Programmer. †† Custom adapter required; not available from Microchip. See “Readme” for PICSTART® Plus * New Product or future support. √ Supported with basic configuration. If a part number is listed in the column, that part is required and available separately. ◊ Optional ICSP® In-Circuit Serial Programming™ Socket for PRO MATE ® II available separately. (AC004004)

(Continued)

Part No.	Lead Count/ Pkg. Type	MPLAB® ICE 2000 System			MPLAB® ICE 4000 System			PRO MATE® II (◊)	MPLAB® PM3* (†)	PICSTART® Plus	MPLAB® ICD 2	MPLAB® CXX Compiler	Demonstration Boards or Evaluation Kits
		Processor Module	Device Adapters	Transition Socket	Processor Module	Device Adapters	Transition Socket	Socket Module	Socket Module				
PIC16F685	20P	PCM16YQ0*		ACICE0203				AC164039*	AC164301*	√*	AC162061*		DV164120, DM163029
PIC16F685	20SO	PCM16YQ0*		XLT20SO1				AC164039*	AC164302*		AC162061* and XLT20SO1		
PIC16F685	20SS	PCM16YQ0*							AC164307*		AC162061*		
PIC16F685	20ML												
PIC16F687	20P	PCM16YQ0*		ACICE0203				AC164039*	AC164301*	√*	AC162061*		DV164120, DM163029
PIC16F687	20SO	PCM16YQ0*		XLT20SO1				AC164039*	AC164302*		AC162061* and XLT20SO1		
PIC16F687	20SS	PCM16YQ0*							AC164307*		AC162061*		
PIC16F687	20ML												
PIC16F688	14P	PCM16YL0						AC124001	AC164301	√	AC162056		DV164101, DV164120, DM163029
PIC16F688	14SL	PCM16YL0						AC164026	AC164302		AC162056		
PIC16F688	14ST	PCM16YL0						AC164026	AC164306		AC162056		
PIC16F688	14ML												
PIC16F689	20P	PCM16YQ0*		ACICE0203				AC164039*	AC164301*		AC162061*		DV164120, DM163029
PIC16F689	20SO	PCM16YQ0*		XLT20SO1				AC164039*	AC164302*		AC162061* and XLT20SO1		
PIC16F689	20SS	PCM16YQ0*							AC164307*		AC162061*		
PIC16F689	20ML												
PIC16F690	20P	PCM16YQ0*		ACICE0203				AC164039*	AC164301*		AC162061*		DV164120, DM163029
PIC16F690	20SO	PCM16YQ0*		XLT20SO1				AC164039*	AC164302*		AC162061* and XLT20SO1		
PIC16F690	20SS	PCM16YQ0*							AC164307*		AC162061*		
PIC16F690	20ML												
PIC16F716	18P	PCM16YJ0	DVA16XP187					AC164010	AC164301	√	AC162054		DM163001
PIC16F716	18SO	PCM16YJ0	DVA16XP187	XLT18SO				AC164010	AC164302		AC162054 and XLT18SO		
PIC16F716	20SS	PCM16YJ0	DVA16XP187	XLT20SS				AC164018	AC164307		AC162054 and XLT20SS		
PIC16F72	28SP	PCM16XS2	DVA16XP282					AC164012	AC164301	√			DM163022
PIC16F72	28SO	PCM16XS2	DVA16XP282	XLT28SO				AC164017	AC164302				
PIC16F72	28SS	PCM16XS2	DVA16XP282					AC164021	AC164307				
PIC16F72	28ML	PCM16XS2	DVA16XP282	XLT28QFN4				AC164012 and AC164031	AC164322	AC164031			
PIC16F73	28SP	PCM16XS2	DVA16XP282					AC164012	AC164301	√	√*		DM163022
PIC16F73	28ML	PCM16XS2	DVA16XP282	XLT28QFN4				AC164012 and AC164031	AC164322	AC164031	√*		
PIC16F73	28SO	PCM16XS2	DVA16XP282	XLT28SO				AC164017	AC164302		√*		
PIC16F73	28SS	PCM16XS2	DVA16XP282					AC164021	AC164307		√*		
PIC16F737	28SP	PCM16YH0	DVA18XP280					AC164012	AC164301	√	√		
PIC16F737	28SO	PCM16YH0	DVA18XP280	XLT28SO				AC164017	AC164302		√		
PIC16F737	28SS	PCM16YH0	DVA18XP280					AC164021	AC164307		√		
PIC16F737	28ML	PCM16YH0	DVA18XP280	XLT28QFN4				AC164012 and AC164031	AC164322	AC164031	√		
PIC16F74	40P	PCM16XS2	DVA16XP401					AC164012	AC164301	√	√*		DM163022
PIC16F74	44L	PCM16XS2	DVA16XL441					AC164013	AC164309		√*		
PIC16F74	44PT	PCM16XS2	DVA16PQ441	XLT44PT or XLT44PT3					AC164305		√*		
PIC16F74	44ML	PCM16XS2	DVA16XL441	XLT44QFN2				AC164012 and AC164034	AC164322	AC164034	√*		
PIC16F747	40P	PCM16YH0	DVA18XP400					AC164012	AC164301	√	√		
PIC16F747	44PT	PCM16YH0	DVA18PQ440	XLT44PT or XLT44PT3					AC164305		√		
PIC16F747	44ML	PCM16YH0	DVA18XP400	XLT44QFN2				AC164012 and AC164034	AC164322	AC164034	√		
PIC16F76	28SP	PCM16XS2	DVA16XP282					AC164012	AC164301	√	√*		DM163022
PIC16F76	28ML	PCM16XS2	DVA16XP282	XLT28QFN4				AC164012 and AC164031	AC164322	AC164031	√*		
PIC16F76	28SO	PCM16XS2	DVA16XP282	XLT28SO				AC164017	AC164302		√*		
PIC16F76	28SS	PCM16XS2	DVA16XP282					AC164021	AC164307		√*		
PIC16F767	28P	PCM16YH0	DVA18XP280					AC164012	AC164301	√	√		
PIC16F767	28SO	PCM16YH0	DVA18XP280	XLT28SO				AC164017	AC164302		√		
PIC16F767	28SS	PCM16YH0	DVA18XP280					AC164021	AC164307		√		
PIC16F767	28ML	PCM16YH0	DVA18XP280	XLT28QFN4				AC164012 and AC164031	AC164322	AC164031	√		
PIC16F77	40P	PCM16XS2	DVA16XP401					AC164012	AC164301	√	√*		DM163022
PIC16F77	44L	PCM16XS2	DVA16XL441					AC164013	AC164309		√*		
PIC16F77	44ML	PCM16XS2	DVA16XL441	XLT44QFN2				AC164012 and AC164034	AC164322	AC164034	√*		
PIC16F77	44PT	PCM16XS2	DVA16PQ441	XLT44PT or XLT44PT3					AC164305		√*		
PIC16F777	40P	PCM16YH0	DVA18XP400					AC164012	AC164301	√	√		
PIC16F777	44PT	PCM16YH0	DVA18PQ440	XLT44PT or XLT44PT3					AC164305		√		
PIC16F777	44ML	PCM16YH0	DVA18XP400	XLT44QFN2				AC164012 and AC164034	AC164322	AC164034	√		
PIC16F785	20P	PCM16YN0*		ACICE0203				AC164039	AC164301	√*	AC162060*		DV164120, DM163029
PIC16F785	20SO	PCM16YN0*		XLT20SO1				AC164039	AC164302		AC162060* and XLT20SO1		
PIC16F785	20SS	PCM16YN0*							AC164307		AC162060*		
PIC16F785	20ML												
PIC16F818	18P	PCM16YE0	DVA16XP186					AC164010	AC164301	√	√		DM163014
PIC16F818	18SO	PCM16YE0	DVA16XP186	XLT18SO				AC164010	AC164302		√		
PIC16F818	20SS	PCM16YE0	DVA16XP186	XLT20SS				AC164018	AC164307		√		
PIC16F818	28ML	PCM16YE0	DVA16XP186	XLT28QFN3				AC164010 and AC164033	AC164322	AC164033	√		
PIC16F819	18P	PCM16YE0	DVA16XP186					AC164010	AC164301	√	√		DM163014
PIC16F819	18SO	PCM16YE0	DVA16XP186	XLT18SO				AC164010	AC164302		√		
PIC16F819	20SS	PCM16YE0	DVA16XP186	XLT20SS				AC164018	AC164307		√		
PIC16F819	28ML	PCM16YE0	DVA16XP186	XLT28QFN3				AC164010 and AC164033	AC164322	AC164033	√		

† MPLAB® PM3 Programmer Unit available separately. ICSP™ function is built-in with MPLAB® PM3 Programmer. †† Custom adapter required; not available from Microchip. See "Readme" for PICSTART® Plus * New Product or future support. √ Supported with basic configuration. If a part number is listed in the column, that part is required and available separately. ◊ Optional ICSP® In-Circuit Serial Programming™ Socket for PRO MATE ® II available separately. (AC004004)

(Continued)

Part No.	Lead Count/ Pkg. Type	MPLAB® ICE 2000 System			MPLAB® ICE 4000 System			PRO MATE® II (◊)	MPLAB® PM3* (†)	PICSTART® Plus	MPLAB® ICD 2	MPLAB® CXX Compiler	Demonstration Boards or Evaluation Kits
		Processor Module	Device Adapters	Transition Socket	Processor Module	Device Adapters	Transition Socket	Socket Module	Socket Module				
PIC16F83	18P	PCM16XH1	DVA16XP180					AC164010	AC164301	√			DM163001
PIC16F83	18SO	PCM16XH1	DVA16XP180	XLT18SO				AC164010	AC164302				
PIC16F84A	18P	PCM16XH1	DVA16XP180					AC164010	AC164301	√			DM163001
PIC16F84A	18SO	PCM16XH1	DVA16XP180	XLT18SO				AC164010	AC164302				
PIC16F84A	20SS	PCM16XH1	DVA16XP180	XLT20SS				AC164018	AC164307				
PIC16F87	18P	PCM16YG0	DVA16XP186					AC164010	AC164301	√	√		DM163014
PIC16F87	18SO	PCM16YG0	DVA16XP186	XLT18SO				AC164010	AC164302		√		
PIC16F87	20SS	PCM16YG0	DVA16XP186	XLT20SS				AC164018	AC164307		√		
PIC16F87	28ML	PCM16YG0	DVA16XP186	XLT28QFN3				AC164010 and AC164033	AC164322	AC164033	√		
PIC16F870	28SP	PCM16XR1	DVA16XP282					AC164012	AC164301	√	√		DM163022
PIC16F870	28SO	PCM16XR1	DVA16XP282	XLT28SO				AC164017	AC164302		√		
PIC16F870	28SS	PCM16XR1	DVA16XP282					AC164021	AC164307		√		
PIC16F871	40P	PCM16XR1	DVA16XP401					AC164012	AC164301	√	√		DM163022
PIC16F871	44L	PCM16XR1	DVA16XL441					AC164013	AC164309		√		
PIC16F871	44PT	PCM16XR1	DVA16PQ441	XLT44PT or XLT44PT3					AC164305		√		
PIC16F872	28SP	PCM16XK1	DVA16XP282					AC164012	AC164301	√	√		DM163022
PIC16F872	28SO	PCM16XK1	DVA16XP282	XLT28SO				AC164017	AC164302		√		
PIC16F872	28SS	PCM16XK1	DVA16XP282					AC164021	AC164307		√		
PIC16F873A	28SP	PCM16XV0	DVA16XP282					AC164012	AC164301	√	√		DM163022
PIC16F873A	28SO	PCM16XV0	DVA16XP282	XLT28SO				AC164017	AC164302		√		
PIC16F873A	28SS	PCM16XV0	DVA16XP282					AC164021	AC164307		√		
PIC16F873A	28ML	PCM16XV0	DVA16XP282	XLT28QFN4				AC164012 and AC164031	AC164322	AC164031	√		
PIC16F874A	40P	PCM16XV0	DVA16XP401					AC164012	AC164301	√	√		DM163022
PIC16F874A	44L	PCM16XV0	DVA16XL441					AC164013	AC164309		√		
PIC16F874A	44PT	PCM16XV0	DVA16PQ441	XLT44PT or XLT44PT3					AC164305		√		
PIC16F874A	44ML	PCM16XV0	DVA16XP401	XLT44QFN2				AC164012 and AC164034	AC164322	AC164034	√		
PIC16F876A	28SP	PCM16XV0	DVA16XP282					AC164012	AC164301	√	√		DM163022
PIC16F876A	28SO	PCM16XV0	DVA16XP282	XLT28SO				AC164017	AC164302		√		
PIC16F876A	28SS	PCM16XV0	DVA16XP282					AC164021	AC164307		√		
PIC16F876A	28ML	PCM16XV0	DVA16XP282	XLT28QFN4				AC164012 and AC164031	AC164322	AC164031	√		
PIC16F877A	40P	PCM16XV0	DVA16XP401					AC164012	AC164301	√	√		DM163022
PIC16F877A	44L	PCM16XV0	DVA16XL441					AC164013	AC164309		√		
PIC16F877A	44PT	PCM16XV0	DVA16PQ441	XLT44PT or XLT44PT3					AC164305		√		
PIC16F877A	44ML	PCM16XV0	DVA16XP401	XLT44QFN2				AC164012 and AC164034	AC164322	AC164034	√		
PIC16F88	18P	PCM16YG0	DVA16XP186					AC164010	AC164301	√	√		DM163014
PIC16F88	18SO	PCM16YG0	DVA16XP186	XLT18SO				AC164010	AC164302		√		
PIC16F88	20SS	PCM16YG0	DVA16XP186	XLT20SS				AC164018	AC164307		√		
PIC16F88	28ML	PCM16YG0	DVA16XP186	XLT28QFN3				AC164010 and AC164033	AC164322	AC164033	√		
PIC16F913	28SP												
PIC16F913	28SO		DVA18XP280	XLT28SO				AC164017	AC164302		√		
PIC16F913	28SS		DVA18XP280					AC164021	AC164307		√		
PIC16F913	28ML		DVA18XP280	XLT28QFN4				AC164012 and AC164031	AC164322	AC164031*	√		
PIC16F914	40P		DVA18XP400					AC164012	AC164301	√*	√		DV164120, DM163029
PIC16F914	44PT		DVA18PQ440	XLT44PT or XLT44PT3					AC164305		√		
PIC16F914	44ML		DVA18XP400	XLT44QFN2				AC164012 and AC164034	AC164322	AC164034*			
PIC16F916	28P		DVA18XP280					AC164012	AC164301	√*	√		DV164120
PIC16F916	28SO		DVA18XP280	XLT28SO				AC164017	AC164302		√		
PIC16F916	28SS		DVA18XP280					AC164021	AC164307		√		
PIC16F916	28ML		DVA18XP280	XLT28QFN4				AC164012 and AC164031	AC164322	AC164031*	√		
PIC16F917	40P		DVA18XP400					AC164012	AC164301	√*	√		DV164120, DM163029
PIC16F917	44PT		DVA18PQ440	XLT44PT or XLT44PT3					AC164305		√		
PIC16F917	44ML		DVA18XP400	XLT44QFN2				AC164012 and AC164034	AC164322	AC164034*	√*		
PIC16F946	64PT			XLT64PT5					AC164303*		√*		
PIC18F Microcontroller Products													
PIC18F1220	18P	PCM18XJ0	DVA18XP180		PMF18WD0		ACICE0202	AC164010	AC164301	√*	√	SW006011	DM163014
PIC18F1220	18SO	PCM18XJ0	DVA18XP180	XLT18SO	PMF18WD0		XLT18SO	AC164010	AC164302		√	SW006011	
PIC18F1220	20SS	PCM18XJ0	DVA18XP180	XLT20SS	PMF18WD0		XLT20SS	AC164018	AC164307		√	SW006011	
PIC18F1220	28ML	PCM18XJ0	DVA18XP180	XLT28QFN3	PMF18WD0		XLT28QFN3	AC164010 and AC164033	AC164322	AC164033*	√	SW006011	
PIC18F1320	18P	PCM18XJ0	DVA18XP180		PMF18WD0		ACICE0202	AC164010	AC164301	√*	√	SW006011	DM163014
PIC18F1320	18SO	PCM18XJ0	DVA18XP180	XLT18SO	PMF18WD0		XLT18SO	AC164010	AC164302		√	SW006011	
PIC18F1320	20SS	PCM18XJ0	DVA18XP180	XLT20SS	PMF18WD0		XLT20SS	AC164018	AC164307		√	SW006011	
PIC18F1320	28ML	PCM18XJ0	DVA18XP180	XLT28QFN3	PMF18WD0		XLT28QFN3	AC164010 and AC164033	AC164322	AC164033*	√	SW006011	
PIC18F2220	28SP	PCM18XH2	DVA18XP280		PMF18WC1		ACICE0204	AC164012	AC164301	√	√	SW006011	
PIC18F2220	28SO	PCM18XH2	DVA18XP280	XLT28SO	PMF18WC1		XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2221	28SP	PCM18XN0*	DVA18XP280		PMF18WH0*	DAF18-4	ACICE0204	AC164012*	AC164301*		√	SW006011*	
PIC18F2221	28SO	PCM18XN0*	DVA18XP280	XLT28SO	PMF18WH0*	DAF18-4	XLT28SO	AC164017*	AC164302*		√	SW006011*	
PIC18F2221	28ML	PCM18XN0*	DVA18XP280	XLT28QFN4	PMF18WH0*	DAF18-4	XLT28QFN4		AC164322*		√	SW006011*	
PIC18F2320	28SP	PCM18XH2	DVA18XP280		PMF18WC1		ACICE0204	AC164012	AC164301	√	√	SW006011	
PIC18F2320	28SO	PCM18XH2	DVA18XP280	XLT28SO	PMF18WC1		XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2321	28SP	PCM18XN0*	DVA18XP280		PMF18WH0*	DAF18-4	ACICE0204	AC164012*	AC164301*		√	SW006011*	
PIC18F2321	28SO	PCM18XN0*	DVA18XP280	XLT28SO	PMF18WH0*	DAF18-4	XLT28SO	AC164017*	AC164302*		√	SW006011*	
PIC18F2321	28ML	PCM18XN0*	DVA18XP280	XLT28QFN4	PMF18WH0*	DAF18-4	XLT28QFN4		AC164322*		√	SW006011*	
PIC18F2331	28SP	PCM18XL0	DVA18XP280		PMF18WF0	DAF18-4	ACICE0204	AC164035	AC164301	√*	√	SW006011	DM183021
PIC18F2331	28SO	PCM18XL0	DVA18XP280	XLT28SO	PMF18WF0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2410	28SP	PCM18XN0	DVA18XP280		PMF18WH0	DAF18-4	ACICE0204	AC164012	AC164301	√	√	SW006011	
PIC18F2410	28SO	PCM18XN0	DVA18XP280	XLT28SO	PMF18WH0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2410	28ML	PCM18XN0	DVA18XP280	XLT28QFN4	PMF18WH0	DAF18-4	XLT28QFN4	AC164035 and AC164031	AC164322	AC164031	√	SW006011	

† MPLAB® PM3 Programmer Unit available separately. ICSP™ function is built-in with MPLAB® PM3 Programmer. †† Custom adapter required; not available from Microchip. See "Readme" for PICSTART® Plus * New Product or future support. √ Supported with basic configuration. If a part number is listed in the column, that part is required and available separately. ◊ Optional ICSP® In-Circuit Serial Programming™ Socket for PRO MATE ® II available separately. (AC004004)

(Continued)

Development System Matrix *(Cont.)*

Part No.	Lead Count/ Pkg. Type	MPLAB® ICE 2000 System			MPLAB® ICE 4000 System			PRO MATE® II (◊)	MPLAB® PM3* (†)	PICSTART® Plus	MPLAB® ICD 2	MPLAB® CXX Compiler	Demonstration Boards or Evaluation Kits
		Processor Module	Device Adapters	Transition Socket	Processor Module	Device Adapters	Transition Socket	Socket Module	Socket Module				
PIC18F2420	28SP	PCM18XN0	DVA18XP280		PMF18WH0	DAF18-4	ACICE0204	AC164012	AC164301	√	√	SW006011	
PIC18F2420	28SO	PCM18XN0	DVA18XP280	XLT28SO	PMF18WH0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2420	28ML	PCM18XN0	DVA18XP280	XLT28QFN4	PMF18WH0	DAF18-4	XLT28QFN4	AC164035 and AC164031	AC164322	AC164031	√	SW006011	
PIC18F2431	28SP	PCM18XL0	DVA18XP280		PMF18WF0	DAF18-4	ACICE0204	AC164035	AC164301	√*	√	SW006011	DM183021
PIC18F2431	28SO	PCM18XL0	DVA18XP280	XLT28SO	PMF18WF0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2455	28SP	PCM18XR0	DVA18XP280		PMF18WL0	DAF18-4	ACICE0204	AC164012	AC164301	√	√*	SW006011	DM163025
PIC18F2455	28SO	PCM18XR0	DVA18XP280	XLT28SO	PMF18WL0	DAF18-4	XLT28SO	AC164017	AC164302		XLT28SO	SW006011	DM163025
PIC18F2480	28SP	PCM18XP0	DVA18XP280		PMF18WJ0	DAF18-4	ACICE0204	AC164012	AC164301	√*	√	SW006011	DM163011
PIC18F2480	28SO	PCM18XP0	DVA18XP280	XLT28SO	PMF18WJ0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2480	28MM	PCM18XP0	DVA18XP280	XLT28QFN4	PMF18WJ0	DAF18-4	XLT28QFN4	AC164012 and AC164031	AC164322	AC164031*	√	SW006011	
PIC18F24J10	28SP								AC164301*			SW006011	
PIC18F24J10	28SO								AC164302*		XLT28SO	SW006011	
PIC18F24J10	28SS								AC164307*			SW006011	
PIC18F24J10	28ML												
PIC18F2510	28SP	PCM18XN0	DVA18XP280		PMF18WH0	DAF18-4	ACICE0204	AC164012	AC164301	√	√	SW006011	DM163022
PIC18F2510	28SO	PCM18XN0	DVA18XP280	XLT28SO	PMF18WH0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2510	28ML	PCM18XN0	DVA18XP280	XLT28QFN4	PMF18WH0	DAF18-4	XLT28QFN4	AC164012 and AC164031	AC164322	AC164031	√	SW006011	
PIC18F2515	28SP	PCM18XN0	DVA18XP280		PMF18WH0	DAF18-4	ACICE0204	AC164012	AC164301	√	√	SW006011	
PIC18F2515	28SO	PCM18XN0	DVA18XP280	XLT28SO	PMF18WH0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2520	28SP	PCM18XN0	DVA18XP280		PMF18WH0	DAF18-4	ACICE0204	AC164012	AC164301	√	√	SW006011	DM163022
PIC18F2520	28SO	PCM18XN0	DVA18XP280	XLT28SO	PMF18WH0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2520	28ML	PCM18XN0	DVA18XP280	XLT28QFN4	PMF18WH0	DAF18-4	XLT28QFN4	AC164012 and AC164031	AC164322	AC164031	√	SW006011	
PIC18F2525	28SP	PCM18XN0	DVA18XP280		PMF18WH0	DAF18-4	ACICE0204	AC164012	AC164301	√	√	SW006011	
PIC18F2525	28SO	PCM18XN0	DVA18XP280	XLT28SO	PMF18WH0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2550	28SP	PCM18XR0	DVA18XP280		PMF18WL0	DAF18-4	ACICE0204	AC164012	AC164301	√*	√*	SW006011	DM163025
PIC18F2550	28SO	PCM18XR0	DVA18XP280	XLT28SO	PMF18WL0	DAF18-4	XLT28SO	AC164036	AC164302		XLT28SO	SW006011	DM163025
PIC18F2580	28SP	PCM18XP0	DVA18XP280		PMF18WJ0	DAF18-4	ACICE0204	AC164012	AC164301	√*	√	SW006011	DM163011
PIC18F2580	28SO	PCM18XP0	DVA18XP280	XLT28SO	PMF18WJ0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2580	28ML	PCM18XP0	DVA18XP280	XLT28QFN4	PMF18WJ0	DAF18-4	XLT28QFN4	AC164012 and AC164031	AC164322	AC164031*	√	SW006011	
PIC18F2585	28SP	PCM18XP0	DVA18XP280		PMF18WJ0	DAF18-4	ACICE0204	AC164012	AC164301	√	√	SW006011	DM163011
PIC18F2585	28SO	PCM18XP0	DVA18XP280	XLT28SO	PMF18WJ0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F25J10	28SP								AC164301*			SW006011	
PIC18F25J10	28SO								AC164302*		XLT28SO	SW006011	
PIC18F25J10	28SS								AC164307*			SW006011	
PIC18F25J10	28ML												
PIC18F2610	28SP	PCM18XN0	DVA18XP280		PMF18WH0	DAF18-4	ACICE0204	AC164012	AC164301	√	√	SW006011	
PIC18F2610	28SO	PCM18XN0	DVA18XP280	XLT28SO	PMF18WH0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2620	28SP	PCM18XN0	DVA18XP280		PMF18WH0	DAF18-4	ACICE0204	AC164012	AC164301	√	√	SW006011	
PIC18F2620	28SO	PCM18XN0	DVA18XP280	XLT28SO	PMF18WH0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F2680	28SP	PCM18XP0	DVA18XP280		PMF18WJ0	DAF18-4	ACICE0204	AC164012	AC164301	√	√	SW006011	DM163011
PIC18F2680	28SO	PCM18XP0	DVA18XP280	XLT28SO	PMF18WJ0	DAF18-4	XLT28SO	AC164017	AC164302		√	SW006011	
PIC18F4220	40P	PCM18XH2	DVA18XP400		PMF18WC1		ACICE0206	AC164012	AC164301	√	√	SW006011	
PIC18F4220	44ML	PCM18XH2	DVA18XP400	XLT44QFN2	PMF18WC1		XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F4220	44PT	PCM18XH2	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WC1	DAF18-3	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4221	40P	PCM18XN0*	DVA18XP400		PMF18WH0*	DAF18-4	ACICE0206	AC164012*	AC164301*		√*	SW006011*	
PIC18F4221	44PT	PCM18XN0*	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WH0*	DAF18-5	XLT44PT or XLT44PT3		AC164305*		√*	SW006011*	
PIC18F4221	44ML	PCM18XN0*	DVA18XP400	XLT44QFN2	PMF18WH0*	DAF18-4	XLT44QFN2		AC164322*		√*	SW006011*	
PIC18F4320	40P	PCM18XH2	DVA18XP400		PMF18WC1		ACICE0206	AC164012	AC164301	√	√	SW006011	
PIC18F4320	44ML	PCM18XH2	DVA18XP400	XLT44QFN2	PMF18WC1		XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F4320	44PT	PCM18XH2	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WC1	DAF18-3	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4321	40P	PCM18XN0*	DVA18XP400		PMF18WH0*	DAF18-4	ACICE0206	AC164012*	AC164301*		√*	SW006011*	
PIC18F4321	44PT	PCM18XN0*	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WH0*	DAF18-5	XLT44PT or XLT44PT3		AC164305*		√*	SW006011*	
PIC18F4321	44ML	PCM18XN0*	DVA18XP400	XLT44QFN2	PMF18WH0*	DAF18-4	XLT44QFN2		AC164322*		√*	SW006011*	
PIC18F4331	40P	PCM18XL0	DVA18XP400		PMF18WF0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	
PIC18F4331	44PT	PCM18XL0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WF0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4331	44ML	PCM18XL0	DVA18XP400	XLT44QFN2	PMF18WF0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F4410	40P	PCM18XN0	DVA18XP400		PMF18WH0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	
PIC18F4410	44PT	PCM18XN0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WH0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4410	44ML	PCM18XN0	DVA18XP400	XLT44QFN2	PMF18WH0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F44J10	40P												
PIC18F44J10	44PT								AC164305*		XLT44PT or XLT44PT3	SW006011	
PIC18F44J10	44ML								AC164322*		XLT44QFN2	SW006011	
PIC18F4420	40P	PCM18XN0	DVA18XP400		PMF18WH0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	
PIC18F4420	44PT	PCM18XN0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WH0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4420	44ML	PCM18XN0	DVA18XP400	XLT44QFN2	PMF18WH0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F4431	40P	PCM18XL0	DVA18XP400		PMF18WF0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	
PIC18F4431	44PT	PCM18XL0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WF0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4431	44ML	PCM18XL0	DVA18XP400	XLT44QFN2	PMF18WF0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F4455	40P	PCM18XR0	DVA18XP400		PMF18WL0	DAF18-4	ACICE0206	AC164012	AC164301	√	√*	SW006011	DM163025
PIC18F4455	44ML	PCM18XR0	DVA18XP400	XLT44QFN2	PMF18WL0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	XLT44QFN2	SW006011	DM163025
PIC18F4455	44PT	PCM18XR0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WL0	DAF18-5	XLT44PT or XLT44PT3		AC164305		XLT44PT or XLT44PT3	SW006011	DM163025

† MPLAB® PM3 Programmer Unit available separately. ICSP™ function is built-in with MPLAB® PM3 Programmer. †† Custom adapter required; not available from Microchip. See "Readme" for PICSTART® Plus * New Product or future support. √ Supported with basic configuration. If a part number is listed in the column, that part is required and available separately. ◊ Optional ICSP® In-Circuit Serial Programming™ Socket for PRO MATE ® II available separately. (AC004004)

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Part No.	Lead Count/ Pkg. Type	MPLAB® ICE 2000 System			MPLAB® ICE 4000 System			PRO MATE® II (◊)	MPLAB® PM3* (†)	PICSTART® Plus	MPLAB® ICD 2	MPLAB® CXX Compiler	Demonstration Boards or Evaluation Kits
		Processor Module	Device Adapters	Transition Socket	Processor Module	Device Adapters	Transition Socket	Socket Module	Socket Module				
PIC18F4480	40P	PCM18XP0	DVA18XP400		PMF18WJ0	DAF18-4	ACICE0206	AC164012	AC164301	√*	√	SW006011	DM163011
PIC18F4480	44PT	PCM18XP0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WJ0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4480	44ML	PCM18XP0	DVA18XP400	XLT44QFN2	PMF18WJ0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034*	√	SW006011	
PIC18F4510	40P	PCM18XN0	DVA18XP400		PMF18WH0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	DM163022
PIC18F4510	44PT	PCM18XN0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WH0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4510	44ML	PCM18XN0	DVA18XP400	XLT44QFN2	PMF18WH0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F45J10	40P												
PIC18F4515	40P	PCM18XN0	DVA18XP400		PMF18WH0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	
PIC18F4515	44PT	PCM18XN0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WH0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4515	44ML	PCM18XN0	DVA18XP400	XLT44QFN2	PMF18WH0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F4520	40P	PCM18XN0	DVA18XP400		PMF18WH0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	DM163022
PIC18F4520	44PT	PCM18XN0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WH0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4520	44ML	PCM18XN0	DVA18XP400	XLT44QFN2	PMF18WH0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F4525	40P	PCM18XN0	DVA18XP400		PMF18WH0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	
PIC18F4525	44PT	PCM18XN0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WH0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4525	44ML	PCM18XN0	DVA18XP400	XLT44QFN2	PMF18WH0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F4550	40P	PCM18XR0	DVA18XP400		PMF18WL0	DAF18-4	ACICE0206	AC164012	AC164301	√*	√*	SW006011	DM163025
PIC18F4550	44ML	PCM18XR0	DVA18XP400	XLT44QFN2	PMF18WL0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034*	XLT44QFN2	SW006011	DM163025
PIC18F4550	44PT	PCM18XR0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WL0	DAF18-5	XLT44PT or XLT44PT3		AC164305		XLT44PT or XLT44PT3	SW006011	DM163025
PIC18F4580	40P	PCM18XP0	DVA18XP400		PMF18WJ0	DAF18-4	ACICE0206	AC164012	AC164301	√*	√	SW006011	DM163011
PIC18F4580	44PT	PCM18XP0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WJ0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4580	44ML	PCM18XP0	DVA18XP400	XLT44QFN2	PMF18WJ0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034*	√	SW006011	
PIC18F4585	40P	PCM18XP0	DVA18XP400		PMF18WJ0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	DM163011
PIC18F4585	44PT	PCM18XP0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WJ0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4585	44ML	PCM18XP0	DVA18XP400	XLT44QFN2	PMF18WJ0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F45J10	44PT								AC164305*		XLT44PT or XLT44PT3	SW006011	
PIC18F45J10	44ML								AC164322*		XLT44QFN2	SW006011	
PIC18F4610	40P	PCM18XN0	DVA18XP400		PMF18WH0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	
PIC18F4610	44PT	PCM18XN0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WH0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4610	44ML	PCM18XN0	DVA18XP400	XLT44QFN2	PMF18WH0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F4620	40P	PCM18XN0	DVA18XP400		PMF18WH0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	DM163026, DM163027-2
PIC18F4620	44PT	PCM18XN0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WH0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4620	44ML	PCM18XN0	DVA18XP400	XLT44QFN2	PMF18WH0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F4680	40P	PCM18XP0	DVA18XP400		PMF18WJ0	DAF18-4	ACICE0206	AC164012	AC164301	√	√	SW006011	DM163011
PIC18F4680	44PT	PCM18XP0	DVA18PQ440	XLT44PT or XLT44PT3	PMF18WJ0	DAF18-5	XLT44PT or XLT44PT3		AC164305		√	SW006011	
PIC18F4680	44ML	PCM18XP0	DVA18XP400	XLT44QFN2	PMF18WJ0	DAF18-4	XLT44QFN2	AC164012 and AC164034	AC164322	AC164034	√	SW006011	
PIC18F6310	64PT	PCM18XQ0	DVA1003	XLT64PT2 or XLT64PT5	PMF18WK0	DAF18-6	XLT64PT2 or XLT64PT5	AC174008	AC164303		√	SW006011	
PIC18F6390	64PT	PCM18XQ0	DVA1003	XLT64PT2 or XLT64PT5	PMF18WK0	DAF18-6	XLT64PT2 or XLT64PT5	AC174008	AC164303		√	SW006011	DM163028
PIC18F6410	64PT	PCM18XQ0	DVA1003	XLT64PT2 or XLT64PT5	PMF18WK0	DAF18-6	XLT64PT2 or XLT64PT5	AC174008	AC164303		√	SW006011	
PIC18F6490	64PT	PCM18XQ0	DVA1003	XLT64PT2 or XLT64PT5	PMF18WK0	DAF18-6	XLT64PT2 or XLT64PT5	AC174008	AC164303		√	SW006011	DM163028
PIC18F6520	64PT	PCM18XE1	DVA18PQ640	XLT64PT2 or XLT64PT5	PMF18WA2	DAF18-6	XLT64PT2 or XLT64PT5	AC174008	AC164303		√	SW006011	DM183022
PIC18F6527	64PT	PCM18XS0*	DVA1003	XLT64PT2 or XLT64PT5	PMF18WS0*	DAF18-6	XLT64PT2 or XLT64PT5	AC174008*	AC164303*		√*	SW006011	
PIC18F6585	68L	PCM18XK0	DVA18PQ802	XLT68L1	PMF18WE0	DAF18-1	XLT68L1	AC174007	AC164308		√	SW006011	
PIC18F6585	64PT	PCM18XK0	DVA18PQ802	XLT64PT2 or XLT64PT5	PMF18WE0	DAF18-1	XLT64PT2 or XLT64PT5	AC174008	AC164303		√	SW006011	DM163015
PIC18F65J10	64PT								AC164327*			SW006011	DM183022
PIC18F65J15	64PT								AC164327*			SW006011	DM183022
PIC18F6622	64PT	PCM18XS0	DVA1003	XLT64PT2 or XLT64PT5	PMF18WS0	DAF18-6	XLT64PT2 or XLT64PT5	AC174008*	AC164303*		√*	SW006011	
PIC18F6680	68L	PCM18XK0	DVA18PQ802	XLT68L1	PMF18WE0	DAF18-1	XLT68L1	AC174007	AC164308		√	SW006011	
PIC18F6680	64PT	PCM18XK0	DVA18PQ802	XLT64PT2 or XLT64PT5	PMF18WE0	DAF18-1	XLT64PT2 or XLT64PT5	AC174008	AC164303		√	SW006011	DM163015
PIC18F66J10	64PT								AC164327*		AC162062*	SW006011	DM183022
PIC18F66J15	64PT								AC164327*		AC162062*	SW006011	DM183022
PIC18F66J60	64PT								AC164327*			SW006011*	
PIC18F66J65	64PT								AC164327*			SW006011*	
PIC18F6722	64PT	PCM18XS0	DVA1003	XLT64PT2 or XLT64PT5	PMF18WS0	DAF18-6	XLT64PT2 or XLT64PT5	AC174008	AC164303		√	SW006011	DM183022
PIC18F67J10	64PT								AC164327*		AC162062*	SW006011	DM183022
PIC18F67J60	64PT								AC164327*			SW006011*	
PIC18F8310	80PT	PCM18XQ0	DVA1003	XLT80PT or XLT80PT3	PMF18WK0	DAF18-6	XLT80PT or XLT80PT3	AC174011	AC164304		√	SW006011	
PIC18F8390	80PT	PCM18XQ0	DVA1003	XLT80PT or XLT80PT3	PMF18WK0	DAF18-6	XLT80PT or XLT80PT3	AC174011	AC164304		√	SW006011	DM163028
PIC18F8410	80PT	PCM18XQ0	DVA1003	XLT80PT or XLT80PT3	PMF18WK0	DAF18-6	XLT80PT or XLT80PT3	AC174011	AC164304		√	SW006011	

† MPLAB® PM3 Programmer Unit available separately. ICSP™ function is built-in with MPLAB® PM3 Programmer. †† Custom adapter required; not available from Microchip. See "Readme" for PICSTART® Plus * New Product or future support. √ Supported with basic configuration. If a part number is listed in the column, that part is required and available separately. ◊ Optional ICSP® In-Circuit Serial Programming™ Socket for PRO MATE ® II available separately. (AC004004)

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Part No.	Lead Count/ Pkg. Type	MPLAB® ICE 2000 System			MPLAB® ICE 4000 System			PRO MATE® II (◊)	MPLAB® PM3* (†)	PICSTART® Plus	MPLAB® ICD 2	MPLAB® CXX Compiler	Demonstration Boards or Evaluation Kits
		Processor Module	Device Adapters	Transition Socket	Processor Module	Device Adapters	Transition Socket	Socket Module	Socket Module				
PIC18F8490	80PT	PCM18XQ0	DVA1003	XLT80PT or XLT80PT3	PMF18WK0	DAF18-6	XLT80PT or XLT80PT3	AC174011	AC164304		√	SW006011	DM163028
PIC18F8520	80PT	PCM18XE1	DVA18PQ800	XLT80PT or XLT80PT3	PMF18WA2	DAF18-6	XLT80PT or XLT80PT3	AC174011	AC164304		√	SW006011	DM183020
PIC18F8527	80PT	PCM18XS0	DVA1003	XLT80PT or XLT80PT3	PMF18WS0	DAF18-6	XLT80PT or XLT80PT3	AC174011*	AC164304*		√*	SW006011	
PIC18F8585	80PT	PCM18XK0	DVA18PQ802	XLT80PT or XLT80PT3	PMF18WE0	DAF18-1	XLT80PT or XLT80PT3	AC174011	AC164304		√	SW006011	DM163015
PIC18F85J10	80PT								AC164328*		AC162062*	SW006011	DM183022
PIC18F85J15	80PT								AC164328*		AC162062*	SW006011	DM183022
PIC18F8622	80PT	PCM18XS0	DVA1003	XLT80PT or XLT80PT3	PMF18WS0	DAF18-6	XLT80PT or XLT80PT3	AC174011*	AC164304*		√*	SW006011	
PIC18F8627	80PT	PCM18XS0	DVA1003	XLT80PT or XLT80PT3	PMF18WS0	DAF18-6	XLT80PT or XLT80PT3	AC174011	AC164304		√	SW006011	DM183022
PIC18F8680	80PT	PCM18XK0	DVA18PQ802	XLT80PT or XLT80PT3	PMF18WE0	DAF18-1	XLT80PT or XLT80PT3	AC174011	AC164304		√	SW006011	DM163015
PIC18F86J10	80PT								AC164328*		AC162062*	SW006011	DM183022
PIC18F86J15	80PT								AC164328*		AC162062*	SW006011	DM183022
PIC18F86J60	80PT												
PIC18F86J65	80PT												
PIC18F8722	80PT	PCM18XS0	DVA1003	XLT80PT or XLT80PT3	PMF18WS0	DAF18-6	XLT80PT or XLT80PT3	AC174011	AC164304		√	SW006011	DM183022
PIC18F87J10	80PT								AC164328*		AC162062*	SW006011	DM183022
PIC18F87J60	80PT												
PIC18F96J60	100PT												
PIC18F96J65	100PT												
PIC24 Microcontroller Products													
PIC24FJ64GA006	64PT												
PIC24FJ64GA008	80PT												
PIC24FJ64GA010	100PT												
PIC24FJ96GA006	64PT												
PIC24FJ96GA008	80PT												
PIC24FJ96GA010	100PT												
PIC24FJ128GA006 PIC24FJ128GA008 PIC24FJ128GA010	64PT 80PT 100PF							AC164327* AC164328* AC164323*				SW006012 SW006012 SW006012	DM240001* DM240001* DM240001*
PIC24HJ256GP206 PIC24HJ256GP610	64PT 100PF												
rfPIC® Microcontroller Products													
rfPIC12C509AF rfPIC12C509AF	20JW 20SS	PCM16XA0 PCM16XA0	DVA12XP080 DVA12XP080	 XLT20SS				AC124001 AC124002	AC164301 AC164307	√ √			
rfPIC12C509AG rfPIC12C509AG	18JW 18SO	PCM16XA0 PCM16XA0	DVA12XP080 DVA12XP080	 XLT18SO				AC124001 AC124002	AC164301 AC164302	√(††) √(††)			
rfPIC12F675F	20SS	PCM12XB0	DVA12XP081	XLT20SS				AC124002	AC164307	√(††)*			DV164102, AC164101, AC164103
rfPIC12F675H	20SS	PCM12XB0	DVA12XP081	XLT20SS				AC124002	AC164307	√(††)*			
rfPIC12F675K	20SS	PCM12XB0	DVA12XP081	XLT20SS				AC124002	AC164307	√(††)*			DV164102, AC164102, AC164104
dsPIC® Microcontroller Products													
dsPIC30F2010	28SO				PMF30XA1	DAF30-4	XLT28SO	AC30F004	AC164302		√	SW006012	DM300017
dsPIC30F2010	28SP				PMF30XA1	DAF30-4	ACICE0204	AC30F004	AC164301		√	SW006012	DM300017, DM300018
dsPIC30F2011 dsPIC30F2011 dsPIC30F2011	18SO 18P 28ML				PMF30XA1 PMF30XA1 PMF30XA1	DAF30-4 DAF30-4 DAF30-4	XLT18SO ACICE0202	AC30F005 AC30F005	AC164302 AC164301 AC164322		√* √* √*	SW006012 SW006012 SW006012	DM300018
dsPIC30F2012	28SO				PMF30XA1	DAF30-4	XLT28SO	AC30F004	AC164302		√*	SW006012	DM300017
dsPIC30F2012	28SP				PMF30XA1	DAF30-4	ACICE0204	AC30F004	AC164301		√*	SW006012	DM300017, DM300018
dsPIC30F2012	28ML				PMF30XA1	DAF30-4	XLT28QFN4		AC164322		√*	SW006012	
dsPIC30F3010	28SO				PMF30XA1	DAF30-4	XLT28SO	AC30F004	AC164302		√	SW006012	DM300017
dsPIC30F3010	28SP				PMF30XA1	DAF30-4	ACICE0204	AC30F004	AC164301		√	SW006012	DM300017, DM300018
dsPIC30F3010	44ML				PMF30XA1	DAF30-4	XLT44QFN4		AC164322		√	SW006012	
dsPIC30F3011	40P				PMF30XA1	DAF30-4	ACICE0206	AC30F003	AC164301		√	SW006012	DM300018
dsPIC30F3011	44PT				PMF30XA1	DAF30-3	XLT44PT or XLT44PT3	AC30F006	AC164305		√	SW006012	
dsPIC30F3011	44ML				PMF30XA1	DAF30-4	XLT44QFN2		AC164322		√	SW006012	
dsPIC30F3012 dsPIC30F3012 dsPIC30F3012	18SO 18P 44ML				PMF30XA1 PMF30XA1 PMF30XA1	DAF30-4 DAF30-4 DAF30-4	XLT18SO ACICE0202 XLT44QFN5*		AC164302 AC164301 AC164322		√ √ √	SW006012 SW006012 SW006012	DM300018
dsPIC30F3013	28SO				PMF30XA1	DAF30-4	XLT28SO	AC30F004	AC164302		√	SW006012	DM300017
dsPIC30F3013	28SP				PMF30XA1	DAF30-4	ACICE0204	AC30F004	AC164301		√	SW006012	DM300017, DM300018
dsPIC30F3013	44ML				PMF30XA1	DAF30-4	XLT44QFN3*		AC164322		√	SW006012	
dsPIC30F3014	40P				PMF30XA1	DAF30-4	ACICE0206	AC30F003	AC164301		√	SW006012	DM300018
dsPIC30F3014	44PT				PMF30XA1	DAF30-3	XLT44PT or XLT44PT3	AC30F006	AC164305		√	SW006012	
dsPIC30F3014	44ML				PMF30XA1	DAF30-4	XLT44QFN2		AC164322		√	SW006012	
dsPIC30F4011	40P				PMF30XA1	DAF30-4	ACICE0206	AC30F003	AC164301		√	SW006012	DM300018
dsPIC30F4011	44PT				PMF30XA1	DAF30-3	XLT44PT or XLT44PT3	AC30F006	AC164305		√	SW006012	
dsPIC30F4011	44ML				PMF30XA1	DAF30-4	XLT44QFN2		AC164322		√	SW006012	
dsPIC30F4012	28SO				PMF30XA1	DAF30-4	XLT28SO	AC30F004	AC164302		√	SW006012	DM300017
dsPIC30F4012	28SP				PMF30XA1	DAF30-4	ACICE0204	AC30F004	AC164301		√	SW006012	DM300017, DM300018
dsPIC30F4012	44ML				PMF30XA1	DAF30-4	XLT44QFN4		AC164322		√	SW006012	
dsPIC30F4013	40P				PMF30XA1	DAF30-4	ACICE0206	AC30F003	AC164301		√	SW006012	DM300018
dsPIC30F4013	44PT				PMF30XA1	DAF30-3	XLT44PT or XLT44PT3	AC30F006	AC164305		√	SW006012 SW006012	
dsPIC30F4013	44ML				PMF30XA1	DAF30-4	XLT44QFN2		AC164322		√	SW006012	
dsPIC30F5011	64PT				PMF30XA1	DAF30-2	XLT64PT2 or XLT64PT5	AC30F008	AC164319		√	SW006012	DM300016

† MPLAB® PM3 Programmer Unit available separately. ICSP™ function is built-in with MPLAB® PM3 Programmer. †† Custom adapter required; not available from Microchip. See "Readme" for PICSTART® Plus * New Product or future support. √ Supported with basic configuration. If a part number is listed in the column, that part is required and available separately. ◊ Optional ICSP® In-Circuit Serial Programming™ Socket for PRO MATE ® II available separately. (AC004004)

(Continued)

Development System Matrix *(Cont.)*

Pricing follows these Matrix pages.

Part No.	Lead Count/ Pkg. Type	MPLAB® ICE 2000 System			MPLAB® ICE 4000 System			PRO MATE® II (◊)	MPLAB® PM3* (†)	PICSTART® Plus	MPLAB® ICD 2	MPLAB® CXX Compiler	Demonstration Boards or Evaluation Kits
		Processor Module	Device Adapters	Transition Socket	Processor Module	Device Adapters	Transition Socket	Socket Module	Socket Module				
dsPIC30F5013	80PT				PMF30XA1	DAF30-2	XLT80PT or XLT80PT3	AC30F007	AC164320		√	SW006012	DM300014 DM3000014-1 DM3000014-2
dsPIC18F5015	64PT				PMF30XA1	DAF30-2	XLT64PT2 or XLT64PT5	AC30F008*	AC164319*		√*	SW006012	
dsPIC30F5016	80PT				PMF30XA1			AC30F007*	AC164320*		√*	SW006012	
dsPIC30F6010	80PF				PMF30XA1	DAF30-2	XLT80PT2	AC30F001	AC164314		√	SW006012	DM300020
dsPIC30F6010A													
dsPIC30F6011	64PF				PMF30XA1	DAF30-2	XLT64PT3 or XLT64PT4	AC30F002	AC164313		√	SW006012	DM300016
dsPIC30F6011A													
dsPIC30F6012	64PF				PMF30XA1	DAF30-2	XLT64PT3 or XLT64PT4	AC30F002	AC164313		√	SW006012	DM300016
dsPIC30F6012A													
dsPIC30F6013	80PF				PMF30XA1	DAF30-2	XLT80PT2	AC30F001	AC164314		√	SW006012	DM300014
dsPIC30F6013A													
dsPIC30F6014	80PF				PMF30XA1	DAF30-2	XLT80PT2	AC30F001	AC164314		√	SW006012	DM300014 DM300004-1 DM300004-2
dsPIC30F6014A													
dsPIC30F6015	64PT								AC164319*		√*	SW006012	
dsPIC33FJ64GP206													
dsPIC33FJ64GP306													
dsPIC33FJ64GP310 dsPIC33FJ64GP310	100PF 100PT												
dsPIC33FJ64GP706													
dsPIC33FJ64GP708													
dsPIC33FJ64GP710 dsPIC33FJ64GP710	100PF 100PT												
dsPIC33FJ64MC506													
dsPIC33FJ64MC508													
dsPIC33FJ64MC510 dsPIC33FJ64MC510	100PF 100PT												
dsPIC33FJ64MC706													
dsPIC33FJ64MC710 dsPIC33FJ64MC710	100PF 100PT												
dsPIC33FJ128GP206													
dsPIC33FJ128GP306													
dsPIC33FJ128GP310 dsPIC33FJ128GP310	100PF 100PT												
dsPIC33FJ128GP706	64PT										√*	SW006012	DM240001*
dsPIC33FJ128GP708													
dsPIC33FJ128GP710 dsPIC33FJ128GP710	100PF 100PT												
dsPIC33FJ128MC506													
dsPIC33FJ128MC510 dsPIC33FJ128MC510	100PF 100PT												
dsPIC33FJ128MC706	64PT										√*	SW006012	
dsPIC33FJ128MC708													
dsPIC33FJ128MC710 dsPIC33FJ128MC710	100PF 100PT												
dsPIC33FJ256GP506													
dsPIC33FJ256GP510 dsPIC33FJ256GP510	100PF 100PT												
dsPIC33FJ256GP710 dsPIC33FJ256GP710	100PF 100PT												
dsPIC33FJ256MC510 dsPIC33FJ256MC510	100PF 100PT												
dsPIC33FJ256MC710 dsPIC33FJ256MC710	100PF 100PT												

† MPLAB® PM3 Programmer Unit available separately. ICSP™ function is built-in with MPLAB® PM3 Programmer. †† Custom adapter required; not available from Microchip. See "Readme" for PICSTART® Plus * New Product or future support. √ Supported with basic configuration. If a part number is listed in the column, that part is required and available separately. ◊ Optional ICSP® In-Circuit Serial Programming™ Socket for PRO MATE ® II available separately. (AC004004)

Development System Pricing

Demo Kits

Description	Digi-Key Part No.	Price Each
PICDEM™ 1	DM163001-ND	59.99
PICDEM™ 3	DM163003-ND	69.99
PICDEM.net™ TCP/IP Demo Board	DM163004-LT-ND	229.99
PICDEM™ LIN	DM163005-ND	445.00
PICDEM™ CAN-LIN 1	DM163007-ND	199.99
PICDEM™ USB	DM163010-ND	125.00
PICDEM™ CAN-LIN 2	DM163011-ND	199.99
PICDEM™ MSC1	DM163012-ND	99.99
PICDEM™ 4	DM163014-ND	129.99
PICDEM™ CAN-LIN 3	DM163015-ND	199.99
PICDEM™ 2 Plus	DM163022-ND	99.99
PICDEM™ FS USB Demo Board	DM163025-ND	59.99
Low-Power Solutions Demo Board	DM163026-ND	129.99
PICDEM™Z 2.4GHZ	DM163027-2-ND	199.99
PICDEM™ LCD Demo Board	DM163028-ND	125.00
PICDEM™ Mechatronics Demo Kit	DM163029-ND	149.99
PICDEM™ LCD Daughter Board	MA160011-ND ***NEW!***	29.99
PICkit™ 2 Starter Kit	DM164120-1-ND ***NEW!***	23.99
PICDEM MC LV Dev. Board	DM183021-ND	99.99
PIC18FXX22 64/80 – PIN TQFP Demo Board	DM183022-ND	59.99
Explorer 16 Dev. Board	DM240001-ND ***NEW!***	129.99
dsPICDEM.net™ 1	DM300004-1-ND	389.99
dsPICDEM.net™ 2	DM300004-2-ND	389.99
dsPICDEM™ 1.1	DM300014-ND	299.99
dsPICDEM™ 28P Starter	DM300017-ND	79.99
dsPICDEM™ 2 Dev. Board	DM300018-ND	99.99
dsPICDEM™ 80P Starter	DM300019-ND ***NEW!***	79.99
dsPICDEM™ MC1	DM300020-ND	300.00
dsPICDEM™ MC1H Module	DM300021-ND	800.00
dsPICDEM™ MC1L Module	DM300022-ND	700.00
KeeLoq Evaluation Kit II	DM303006-ND	249.99
PICkit™ 1	DV164101-ND	36.00
rfPIC™ Kit 1	DV164102-ND	135.00
dsPIC30F 18F4431 Plug In	MA18F4431-ND	25.00

Software

Description	Digi-Key Part No.	Price Each
C18 C Compiler	SW006011-ND	495.00
C30 C Compiler	SW006012-ND	895.00
Visual FilterLab®	SW300001-ND	249.99
Digital Filter Design Lite	SW300001-LT-ND	29.99
Noise Suppression Lib "EVAL"	SW300040-EVAL-ND	5.00
Symmetric Encryption Lib "EVAL"	SW300050-EVAL-ND	5.00
Asymmetric Encryption Lib "EVAL"	SW300055-EVAL-ND	5.00
Acoustic Echo Cancellation Lib. "EVAL"	SW300060-EVAL-ND	5.00
Speech Encoder/Decoder Lib "EVAL"	SW300070-EVAL-ND	5.00
Line Echo Cancellation Lib.	SW300080-EVAL-ND	5.00

(Continued)

Programmers, In-Circuit Debuggers, and In-Circuit Emulators

Description	Digi-Key Part No.	Price Each
ICD2 with USB Cable	DV164005-ND	159.99
ICD2 DV164007 with PICDEM™ 2 PLUS	DV164006-ND	229.99
ICD2 DV164005 w/Power Supply	DV164007-ND	189.99
ICD2 with dsPICDEM™ 1.1	DV164032-ND	399.99
PICkit™ 2 Starter Kit	DV164120-ND	49.99
PICSTART® PLUS	DV003001-ND	199.99
PM3	DV007004-ND	895.00
Baseline Flash MCU Programmer	PG164101-ND	25.00
PICkit™ 2 MCU Programmer	PG164120-ND	34.99
ICE 2000 POD	ICE2000-ND	1000.00
ICE 4000 POD	ICE4000-ND	2560.00
Accessories		
PIC10F Hobby Kit	AC163021-ND	12.00
SOT23-6 Adapter	AC163020-ND	36.00
PICDEM™ Z Motherboard	AC163027-1-ND	89.99
PICDEM™ Z Card RF 2.4 GHZ	AC163027-2-ND	39.99
ICSP Cable for MPLAB PM3	AC002021-ND	21.00
24V BLDC Motor with Cables	AC300020-ND ***NEW!***	120.00
208/460 VAC 3-Phase Motor	AC300021-ND ***NEW!***	120.00
Acoustic Accessory Kit	AC300030-ND	87.99
Speech Rec. Accessory Kit	AC300031-ND	40.00
Power Supply	AC162039-ND	24.00
Power Supply with Cable	AC162048-ND	29.99
Demo Board for 8 SOIC/MSOP/TSSOP/DIP	SOIC8EV-ND ***NEW!***	10.00
MPLAB® ICD2 Accessories		
Universal Programming Module	AC162049-ND	39.99
28/40-Pin MPLAB® ICD2 Header	AC162051-ND	19.99
ICD2 Header Interfaces		
ICD2 Header for PIC12F629/675	AC162050-ND	25.00
ICD2 Header for PIC16F630/676	AC162052-ND	25.00
ICD2 Header for PIC16F627A/628A/648A	AC162053-ND	35.00
ICD2 Header for PIC16F716	AC162054-ND	35.00
ICD2 Header for PIC16F684	AC162055-ND	25.00
ICD2 Header for PIC16F688	AC162056-ND	25.00
ICD2 Header for PIC12F635, PIC16F636	AC162057-ND	25.00
ICD2 Header for PIC10F, PIC12F508/9, PIC16F505	AC162059-ND ***NEW!***	25.00
ICD2 Header for PIC16F785/HV785	AC162060-ND ***NEW!***	35.00
ICD2 Header for PIC16F631/677/685/687/689/690	AC162061-ND ***NEW!***	35.00
ICD2 Header for PIC18Fx5J1x	AC162062-ND ***NEW!***	50.00
ICD2 Header for PIC16F639	AC162066-ND ***NEW!***	35.00
ICD2 Header for PIC12F683	AC162058-ND	25.00
ICD2 Breadboard Cable	AC162069-ND	14.99
MPLAB® ICE 2000 Accessories		
ICE 2000 Power Supply	ACICE0103-ND	50.00
ICE 2000 Logic Probes	ACICE0104-ND	60.00
ICE 2000 Parallel Cable	ACICE0105-ND	40.00
ICE 2000 Tripod	ACICE0106-ND	30.00
ICE 2000 Flex Cable	ACICE0107-ND	55.00
ICE 2000 USB Parallel Adapter	ACICE0108-ND ***NEW!***	99.99
MPLAB® ICE 4000 Accessories		
Adapter Plug, 18P, 300 mil.	ACICE0202-ND	20.00
Adapter Plug, 20P, 300 mil.	ACICE0203-ND	20.00
Adapter Plug, 28P, 300 mil.	ACICE0204-ND	30.00
Adapter Plug, 28P, 600 mil.	ACICE0205-ND	30.00
Adapter Plug, 40P, 600 mil.	ACICE0206-ND	40.00
ICE 4000 Power Supply	ACICE0401-ND	50.00
ICE 4000 Logic Probes	ACICE0402-ND	60.00
ICE 4000 Parallel Cable	ACICE0403-ND	40.00
ICE 4000 Flex Cable	ACICE0407-ND	55.00
Transition Headers		
8P SOIC Header	ACICE0301-ND	20.00
14P SOIC Header	ACICE0302-ND	40.00
18P SOIC Header	ACICE0303-ND	40.00
20P SSOP Header	ACICE0304-ND	55.00
20P SOIC Header	ACICE0305-ND	55.00
28P SOIC Header	ACICE0306-ND	55.00
28P SSOP Header	ACICE0307-ND	55.00
PICSTART® Accessories		
64-PLCC Adapter	AC164024-ND	129.99
84-PLCC Adapter	AC164027-ND	159.99
28-QFN Adapter	AC164031-ND	159.99
8-DFN Adapter	AC164032-ND	159.99
28-QFN Adapter	AC164033-ND	159.99
44-QFN Adapter	AC164034-ND	159.99
PICSTART® Firmware Module	UK003010-ND	29.99
PICkit™ Accessories		
PICkit 1 Firmware Upgrade Kit	UK164101-ND	5.00
PICtail™ Daughter Board	AC164120-ND	25.00
PICtail™ Daughter Board	AC164121-ND ***NEW!***	39.99
PICtail™ Daughter Board	AC164122-ND ***NEW!***	37.99
rfPIC™ TX Module (433.92 MHz)	AC164101-ND	30.00
rfPIC™ TX Module (315 MHz)	AC164102-ND	30.00
rfRXD RCVR Module (433.92 MHz)	AC164103-ND	25.00
rfRXD RCVR Module (315 MHz)	AC164104-ND	25.00

Processor Modules

Digi-Key Part No.	Price Each
PCM12XA0-ND	445.00
PCM12XB0-ND	445.00
PCM12XC0-ND	445.00
PCM16XA0-ND	445.00
PCM16XB1-ND	445.00
PCM16XC0-ND	445.00
PCM16XD0-ND	445.00
PCM16XE1-ND	445.00
PCM16XF0-ND	445.00
PCM16XG0-ND	445.00
PCM16XH1-ND	445.00
PCM16XJ0-ND	445.00
PCM16XK1-ND	445.00
PCM16XL0-ND	445.00
PCM16XN0-ND	445.00
PCM16XN1-ND	445.00
PCM16XP0-ND	445.00
PCM16XQ1-ND	445.00
PCM16XR0-ND	445.00
PCM16XR1-ND	445.00
PCM16XS2-ND	445.00
PCM16XT0-ND	445.00
PCM16XV0-ND	445.00
PCM16XW0-ND	445.00
PCM16YB0-ND	445.00
PCM16YC0-ND	445.00
PCM16YD0-ND	445.00
PCM16YE0-ND	445.00
PCM16YF0-ND	445.00
PCM16YG0-ND	445.00
PCM16YH0-ND	445.00
PCM16YJ0-ND	445.00
PCM16YK0-ND	445.00
PCM16YL0-ND	445.00
PCM16YM0-ND	445.00
PCM16YN0-ND ***NEW!***	445.00
PCM16YQ0-ND ***NEW!***	445.00
PCM17XA0-ND	445.00
PCM18XA0-ND	445.00
PCM18XB0-ND	445.00
PCM18XD1-ND	445.00
PCM18XE1-ND	445.00
PCM18XH2-ND	445.00
PCM18XJ0-ND	445.00
PCM18XK0-ND	445.00
PCM18XL0-ND	445.00
PCM18XN0-ND	445.00
PCM18XP0-ND	445.00
PCM18XQ0-ND	445.00
PCM18XR0-ND	445.00
PCM18XS0-ND	445.00
PMF18WA2-ND	595.00
PMF18WB1-ND ***NEW!***	595.00
PMF18WC1-ND	595.00
PMF18WD0-ND	595.00
PMF18WD1-ND	595.00
PMF18WE0-ND	595.00
PMF18WE1-ND	595.00
PMF18WF0-ND	595.00
PMF18WH0-ND	595.00
PMF18WJ0-ND	595.00
PMF18WK0-ND	595.00
PMF18WL0-ND	595.00
PMF30XA1-ND	595.00

Device Adapters

Digi-Key Part No.	Price Each
DAF18-1-ND	225.00
DAF18-3-ND	225.00
DAF18-4-ND	225.00
DAF18-5-ND ***NEW!***	225.00
DAF18-6-ND	225.00
DAF30-2-ND	295.00
DAF30-3-ND	225.00
DAF30-4-ND	225.00
DVA1003-ND	125.00
DVA12XP080-ND	125.00
DVA12XP081-ND	125.00
DVA16PQ441-ND	225.00
DVA16PQ640-ND	225.00
DVA16XL441-ND	165.00
DVA16XL680-ND	225.00
DVA16XP140-ND	125.00
DVA16XP141-ND	125.00
DVA16XP180-ND	125.00
DVA16XP182-ND	165.00
DVA16XP183-ND	165.00
DVA16XP185-ND	165.00
DVA16XP186-ND	165.00
DVA16XP187-ND	165.00
DVA16XP200-ND	165.00
DVA16XP201-ND	165.00
DVA16XP202-ND	165.00
DVA16XP280-ND	125.00
DVA16XP282-ND	165.00
DVA16XP401-ND	165.00
DVA16XP640-ND	225.00
DVA17PQ441-ND	225.00
DVA17PQ641-ND	225.00
DVA17PQ801-ND	225.00
DVA17XL441-ND	165.00
DVA17XL681-ND	225.00
DVA17XL841-ND	165.00
DVA17XP401-ND	125.00
DVA18PQ440-ND	225.00
DVA18PQ640-ND	225.00
DVA18PQ800-ND	225.00
DVA18PQ802-ND	225.00
DVA18XL680-ND	225.00
DVA18XL840-ND	225.00
DVA18XP180-ND	165.00
DVA18XP280-ND	165.00
DVA18XP400-ND	165.00

Transition Sockets

Digi-Key Part No.	Price Each
XLT06SOT-ND	18.00
XLT08DFN-ND	75.00
XLT08DFN2-ND	75.00
XLT08SO-ND	35.00
XLT16QFN1-ND	40.00
XLT18SO-ND	75.00
XLT20SO1-ND	75.00
XLT20SS-ND	75.00
XLT28QFN3-ND	175.00
XLT28QFN4-ND	40.00
XLT28SO-ND	75.00
XLT28SS2-ND	75.00
XLT28XP-ND	75.00
XLT44L2-ND	175.00
XLT44PT-ND	125.00
XLT44PT3-ND	225.00
XLT44QFN2-ND	175.00
XLT44QFN3-ND	125.00
XLT44QFN4-ND	125.00
XLT44QFN5-ND	125.00
XLT64PT1-ND	125.00
XLT64PT3-ND ***NEW!***	125.00
XLT64PT4-ND	225.00
XLT64PT5-ND	225.00
XLT68L1-ND	175.00
XLT80PT-ND	125.00
XLT80PT2-ND ***NEW!***	125.00
XLT80PT3-ND	250.00
XLT84L1-ND	175.00

Socket Module

Digi-Key Part No.	Price Each
AC002012-ND	33.00
AC002013-ND	50.00
AC004004-ND	349.99
AC124001-ND	129.99
AC124002-ND	159.99
AC164001-ND	159.99
AC164002-ND	159.99
AC164010-ND	189.99
AC164012-ND	159.99
AC164013-ND	159.99
AC164014-ND	159.99
AC164015-ND	209.99
AC164017-ND	159.99
AC164018-ND	159.99
AC164021-ND	189.99
AC164022-ND	159.99
AC164023-ND	159.99
AC164025-ND	159.99
AC164026-ND	159.99
AC164027-ND	159.99
AC164028-ND	159.99
AC164029-ND	159.99
AC164030-ND	159.99
AC164035-ND	159.99
AC164036-ND	159.99
AC164037-ND	159.99
AC164038-ND	159.99
AC164039-ND	159.99
AC164301-ND	189.99
AC164302-ND	189.99
AC164303-ND	189.99
AC164304-ND	189.99
AC164305-ND	189.99
AC164306-ND	189.99
AC164307-ND	189.99
AC164308-ND	189.99
AC164309-ND	189.99
AC164310-ND	189.99
AC164311-ND	189.99
AC164312-ND	189.99
AC164313-ND	189.99
AC164314-ND	189.99
AC164315-ND	189.99
AC164316-ND	189.99
AC164317-ND	189.99
AC164318-ND	189.99
AC164319-ND	189.99
AC164320-ND	189.99
AC164321-ND	189.99
AC164322-ND	189.99
AC164323-ND ***NEW!***	189.99
AC164325-ND ***NEW!***	189.99
AC164327-ND ***NEW!***	189.99
AC164328-ND ***NEW!***	189.99
AC164329-ND ***NEW!***	189.99
AC164330-ND ***NEW!***	189.99
AC164331-ND ***NEW!***	189.99
AC164332-ND ***NEW!***	189.99
AC164350-ND	129.99
AC174001-ND	159.99
AC174002-ND	159.99
AC174005-ND	159.99
AC174007-ND	159.99
AC174009-ND	159.99
AC174011-ND	159.99
AC174012-ND	159.99
AC254001-ND	159.99
AC30F001-ND ***NEW!***	159.99
AC30F002-ND ***NEW!***	159.99
AC30F003-ND	159.99
AC30F004-ND	189.99
AC30F005-ND	189.99
AC30F006-ND	159.99
AC30F007-ND	159.99
AC30F008-ND	159.99

C-Compiler for ARM®

Features: • **STD**: ANSI C Compiler for ARM code generation • IDE with Application Builder, editor, project manager, code browser. • Support of ELF/DWARF debugging • Help files available as HTML Help and PDF file **ADV:** • STD + Thumb code generation **PRO:** • Includes Global Optimizer • Improve program size and runtime speed by 10-15%

Supported ARM Devices			
Device	**Header File**	**IDE Device Selection**	**Application Builder**
Atmel SAM7S/SAM7A	√	√	√
Atmel AT91 ARM7	√	√	√
Philips LPC210x	√	√	√
Philips LPC220x	√	√	—
Analog Device ADuC702x	√	√	—
ST STR71x	√	—	—

Target CPUs	Code Memory Size	Code Browser	Code Compressor	Debuggers	Application Builder	Optimizations	Digi-Key Part No.	Price Each	Imagecraft Part No.
See Chart	Size of Device	Yes	No	Elf/Dwarf	Yes (See Chart)	No	ICCV7 ARM STD-ND	224.99	ICCV7 ARM STD

C-Compiler for AVR®

Features: • ICCAVR supports all AT90S and ATmega devices (except for 1200, which does not have SRAM), Tiny26, and AT94K FPSLIC. ANSI C Compiler: • Modern fast C Compiler with FULL support for the ANSI C language • Not micro-C or extended K&R C • 32-bit longs, 32-bit IEEE single precision floating point **Professional Version ICCAVR PRO**: • Code Compressor Optimizer, which reduces final code by 8-18%. This state-of-the-art whole-program optimizer is not available in any other commercial embedded compilers.

Target CPU's	Code Memory Size	Code Browser	Code Compressor	Debuggers	Application Builder	Optimizations	Digi-Key Part No.	Price Each
C Compiler for AVR	Up to 64K Bytes	Yes	No	AVR Studio, Flash Studio+	Yes	Register Allocation, Peephole	ICCV7 AVR STD-ND	225.00
C Compiler PRO for AVR	Up to 128K Bytes	Yes	Yes	AVR Studio, Flash Studio+	Yes	Register Allocation, Peephole	ICCV7 AVR ADV-ND	375.00

C-Compiler for Freescale Microcontrollers

Features: • ANSI C embedded systems development tools with comprehensive target support for Freescale Microcontrollers • Write interrupt handlers in C • Supports inline assembly and can interface with assembly modules • ANSI C Compiler: Modern fast C Compiler with FULL support for the ANSI C language, NOT micro-C or extended K&R C • 32-bit longs, 32-bit IEEE single precision floating point

Target CPUs	Code Memory Size	Code Browser	Code Compressor	Debuggers	Application Builder	Optimizations	Digi-Key Part No.	Price Each	Imagecraft Part No.
Freescale HC08	Up to 64K Bytes	Yes	No	ICD08	Yes	Peephole, Direct Page Addressing	ICC08 STD-ND	199.00	ICC08 STD
Freescale HC11	Up to 64K Bytes	Yes	No	HC11 Debugger	No	Peephole	ICC11 STD-ND	199.00	ICC11 STD
Freescale HC12 / HCS12	4Mbytes using HC12 Expanded Memory Feature	Yes	No	HC12 ICD	No	Peephole	ICC12 PRO-ND	349.00	ICC12 PRO
Freescale HC12 / HCS12	Up to 64K Bytes	Yes	No	HC12 ICD	No	Peephole	ICC12 STD-ND	199.00	ICC12 STD
Freescale HC08	Up to 64K Bytes	Yes	Yes	ICD08	Yes	Peephole, Direct Page Addressing	ICC08 PRO-ND	348.99	ICC08 PRO

C-Compiler for TI MSP430

Features: • ANSI C embedded systems development tools with comprehensive target support for TI MSP430 Microcontrollers • Write interrupt handlers in C • Supports inline assembly and can interface with assembly modules • ANSI C Compiler: Modern fast C Compiler with FULL support for the ANSI C language, NOT micro-C or extended K&R C • 32-bit longs, 32-bit IEEE single precision floating point

Target CPUs	Code Memory Size	Code Browser	Code Compressor	Debuggers	Application Builder	Optimizations	Digi-Key Part No.	Price Each	Imagecraft Part No.
Texas Instruments TI MSP430	Up to 64K Bytes	Yes	No	ICC430 built-in	Yes	Register Allocation, Peephole	ICC430 STD-ND	199.00	ICC430 STD

C-Compilers and Debuggers

C-Compiler for PICmicro® MCUs

C-Compiler for 12Bit, 14Bit and PIC18 PICmicro MCUs. This Integrated C Development Environment gives developers the capability to produce efficient code from an easily maintainable high level language. With full standard C compatibility, a full featured, Windows IDE with built-in functions and example programs, you will be able to develop embedded solutions for the full line of PICmicro MCUs.

ICD-S40

This ICD unit communicates to the PC and the debugging software over an RS232 connection, and operates at a 40Mhz clock frequency resulting in quick debug times (RS232 serial cable included). The ICD-S40 is powered from the target board. The target board needs to supply 5 volts to the ICD.

ICD-U40

This ICD unit connects to the PC and the debugging software over USB. It operates at a 40Mhz clock frequency resulting in quick debug times (USB cable included). The ICD-U40 is powered from the USB bus and can optionally power your target board (5V only)

429-1000-ND	C-Compiler (PCWH)	**$425.00**
429-1001-ND	C-Compiler for 12 bit PIC's	**$125.00**
429-1002-ND	C-Compiler for 14 bit PIC's	**$125.00**
429-1003-ND	C-Compiler for PIC18	**$175.00**
429-1004-ND	C-Compiler for 12-14 bit PIC's	**$350.00**
429-1005-ND	In-Circuit Debugger ICD-S40 (Serial)	**$75.00**
429-1006-ND	In-Circuit Debugger ICD-U40 (USB)	**$75.00**

Feature Comparison	PCB	PCM	PCH	PCW	PCWH
Command Line Compiler	√	√	√	√	√
Built-in Functions	√	√	√	√	√
Example Programs	√	√	√	√	√
Device Drivers	√	√	√	√	√
MPLAB Interface	√	√	√	√	√
Windows IDE				√	√
C Aware Editor				√	√
New Project Wizard				√	√
Debugger				√	√
Device Selector/Editor				√	√
Call Tree and Memory Map	√	√	√	√	√
Statistics				√	√
Special Viewers				√	√
Serial Port Utility				√	√
12bit Support	√			√	√
14bit Support		√		√	√
PIC18 Support			√		√

PicBasic Pro Compiler

PicBasic Pro converts your BASIC programs into files that can be programmed directly into a PICmicro® MCU. Full support for 14-bit and 16-bit MCUs. Limited support for 12-bit MCUs. The PicBasic Pro Compiler features BASIC commands, direct and library routine access to pins on PORTA, C, D, E, as well as PORTB, arrays, real IF..THEN..ELSE and interrupt processing in BASIC.

Includes Code Designer Lite, a Windows integrated development environment (IDE) that is compatible with our PicBasic Pro Compiler.

Comes with Software, Manual with instruction set and explanations and directions. Works on any version of Dos or Windows with CodeDesigner Lite. Windows95, 98, 2000, XP and ME compatible.

The LAB-X1A is an independent hardware platform, similar to the Microchip PICDEM™. It can run programs written in any language, including C, Assembly, and PicBasic. Includes 40 Pin Zif Socket, LCD display, memory, Rs232 port, Pots for ADCs and many extras.

444-1000-ND	PicBasic Pro Compiler	**$249.95**
444-1001-ND	LAB-X1 Experimenter Board	**$199.95**

QuickWriter™ Programmer

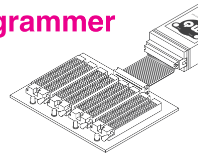

***Shown with 4 Gang Adapter (not included). Programming adapters must be purchased separately.**

QuickWriter™ comes with power supply, serial cable and in circuit programming cable. Adapter required when not using ICSP cable.

One programmer for all of your PIC® MCU development needs: • In-circuit Serial Programming • 4 Gang Serial device programming • Single device programming (serial and parallel)

QuickWriter™ is a low cost programmer with these advanced features: • Over-sized drivers and power supply to properly support multiple device programming and in-circuit programming • Measures programming voltages and current to verify proper target connections or device insertions • Flash firmware updates • Data table driven • New devices are supported with free data table downloads from the TechTools web site (www.tech-tools.com) • Programs ALL 12-bit, 14-bit, and 18-bit series Microchip PIC processors. This includes all 12C, 14000, 16C, 16F, 18C, and 18F families • Includes the TechTools Development Environment (TDE™), a full featured, Windows hosted IDE. TDE™ supports development with all popular PIC®MCU compilers and assemblers. TDE™ includes a multi-file editor, integrated MAKE and one-click cross referencing of compiler errors. TDE™ also interfaces to the TechTools ClearView™ Mathias (not included) for full featured, real-time, in-circuit emulation and source level debugging. • Includes TechTools PIC® MCU assembler, CVASM16™. CVASM16™ supports ALL 12-bit and 14-bit PIC® MCU processors. CVASM16™ assembles Parallax source files (SPASM format) and accepts Microchip mnemonics. • Compatible with existing TechTools and Parallax programming adapters • Accepts HEX files generated by all popular PIC®MCU compilers and assemblers • Supports auto-incrementing serialization • Runs under Win95 through XP as well as NT through XP Pro • Includes serial cable, in-circuit programming cable and power supply

Description	Digi-Key Part No.	Price Each	TechTools Part No.
Programmer			
PICmicro® MCU	QW1-ND	199.00	QW1
Adapters			
40-Pin ZIFX	MP-ZIF40-ND*	49.00	MP-ZIF40
18/28-Pin ZIF	MP-ZIF18/28-ND	69.00	MP-ZIF18/28
14-Pin ZIF	MP-ZIF14-ND	59.00	MP-ZIF14
44-Pin PLCC	MP-PLCC44-ND	129.00	MP-PLCC44
28-Pin SOIC	MP-SOIC28-ND	129.00	MP-SOIC28
18-Pin SOIC	MP-SOIC18-ND	79.00	MP-SOIC18
8/14-Pin SOIC	MP-SOIC8/14-ND	89.00	MP-SOIC814
PIC14000	MP-14000-ND	59.00	MP-14000
28-Pin SSOP	MP-SSOP28-ND	99.00	MP-SSOP28
18-Pin SSOPX	MP-SSOP18-ND	79.00	MP-SSOP18
4 Gang Adapters for QuickWriter			
40-Pin ZIF	QW-4ZIF40/28-ND*	199.00	QW-4ZIF40/28
44-Pin PLCC	QW-4PLCC44-ND	199.00	QW-4PLCC44
28-SOIC	QW-4SOIC28-ND	249.00	QW-4SOIC28
18-Pin ZIF	QW-4ZIF18-ND	199.00	QW-4ZIF18
18-Pin SOIC	QW-4SOIC18-ND	249.00	QW-4SOIC18
8/14-Pin Narrow SOIC	QW-4SO8/14N-ND	249.00	QW-4SO8/14N
8/14-Pin Wide SOIC	QW-4SO8/14W-ND	249.00	QW-4SO8/14W

* Use with 28 and 40-Pin 14 bit dip parts.

PIC Emulators ClearView™ Mathias

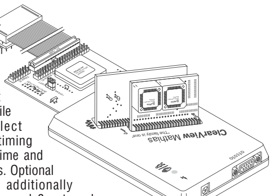

CVM1 supports emulation for 16C5X and 16CXX devices using Microsoft Windows™ for a complete integrated design environment. "Family" modules select 5X or XX device family, while "Member" modules select specific device. Optional timing module shows execution time and number of processor cycles. Optional 16K trace buffer module additionally provides execution history and 8 external trace inputs. Provides full emulation of program and register memory and I/O activity with unlimited hardware breakpoints. Built-in PLL oscillator generates any frequencies from 32KHz to 33MHz.

System requirements: IBM PC or compatible, VGA monitor, serial port, 3.5" disk drive, and Windows™ 3.1, Win95, Win98 or NT

Description	Digi-Key Part No.	Price Each	TechTools Part No.
Emulator			
ClearView Mathias 16C5x/16CXX	CVM1-ND	495.00	CVM1
Family Module			
Advanced 14 Bit Family Module w/Data Breakpoints	CVM04F-ND	200.00	CVM04F
PIC16C5X Family Module	CVM5XF-ND	150.00	CVM5XF
Member Module			
PIC16C55X/62X/CE62X	CVM001M-ND	200.00	CVM001M
PIC12C508/509	CVM50XM-ND	75.00	CVM50XM
PIC16C50X/CE51X/16C505	CVM5XXM-ND	100.00	CVM5XXM
PIC12C671/672	CVM67XM-ND†	100.00	CVM67XM
PIC16C5X	CVM5XM-ND	50.00	CVM5XM
PIC16C554/556/558	CVM55XM-ND	100.00	CVM55XM
PIC16C61	CVM61M-ND	100.00	CVM61M
PIC16C62X	CVM62XM-ND	100.00	CVM62XM
PIC16C62X/61/71/84	CVM6/8M-ND	200.00	CVM6/8M
PIC16C641/642/661/662	CVM66XM-ND	200.00	CVM66XM
PIC16C715	CVM715M-ND	100.00	CVM715M
PIC16C70,71,710,711	CVM711M-ND	100.00	CVM711M
PIC16C62-65/72-74	CVM7XM-ND	200.00	CVM7XM
PIC16C66/67/76/77	CVM77M-ND	200.00	CVM77M
PIC16C773,774	CVM77XM-ND	200.00	CVM77XM
PIC16F627/628	CVMF628M-ND	200.00	CVMF628M
PIC16F83,F84,C83,C84	CVMF84M-ND	100.00	CVMF84M
PIC16F873,874,876,877	CVM87XM-ND	200.00	CVM87XM
PIC16F73/F74/F76/F77	CVMF77M-ND	200.00	CVMF77M
PIC16F870/F871	CVM871M-ND	200.00	CVM871M
Trace Buffer and Timing Module			
Mathias Timing Module	CVMT1-ND	130.00	CVMT1
Mathias Trace Buffer and Timing Module	CVMT2-ND	270.00	CVMT2
Kit Module			
Firmware/Logic Field Upgrade Kit	CVM1-FWL-ND*	55.00	CVM1-FWL
Adapter			
PIC16C712C716	ADP716-ND§	35.00	ADP716

† Requires the CVM03F Family Module § Requires Member Module CVM77M

* For use with TDE 4.0 software features of: Stack Viewing, Variable Trace Size, faster Step-out function and faster Register Window Updates. Contains firmware V2.2 and UC13 Ver C.

DigiView™ Logic Analyzer

DigiView is an 18-channel, 100MHz Logic Analyzer of professional quality, high portability and is very affordable. DigiView uses a deep capture buffer and real-time hardware compression to achieve long period captures without reducing resolution. Depending on the sparseness of the data, DigiView can capture up to 5 minutes of data at 10ns resolution. **Features:** • 18 Channels • USB interface and power source for portability • Real-time hardware compression • Eliminates resolution vs. depth tradeoffs • Compression ratio up to 256,000:1 depending on activity • Trigger on rising, falling or transition of any channel • Multi-channel high, low and don't care trigger qualifier • Pre-trigger and post-trigger data capture

DV1-100-ND DV1-100 .... **$499.00**

ER3 EconoROM III Economical EPROM Emulator

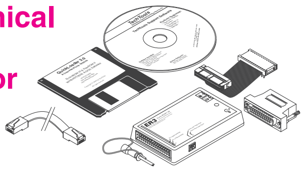

EconoROM III is designed for quick, in-circuit firmware test cycles. Eliminate the "burn/insert/test/remove/erase" cycle. The ER3 will speed up your firmware development by eliminating the need to remove-erase-program and re-install EPROMs each time you test a code change. These devices plug into the EPROM socket on your target board and emulate the EPROM throughout the development process. **Features:** • Integrated Low-Voltage Support • Target Voltage Sense and Measurement • External Power Option • Jumperless Address Configuration • Up to 8Mbit Emulation in a single unit • Fast Downloads (up to 2.5 Mbit per second) • Replaces standard EPROM device during development • Connects to any Parallel Port • Auto/Manual Target Reset on download • Read-back, Verify and Self-test functions • Daisy-chain cable included • LPT cable (8 wire Modular Cable and DB25 adapter) included • Target cables (standard IDC to DIP Ribbon Cable) included • Includes 2 versions of software: 16 bit DOS version and 32 bit Win9X/NT/2000 version • QuickLoader with Full-screen editor included • Batchable loader and utilities included • Accepts Intel HEX, Tektronix HEX, Motorolla 'S' records and binary files • Free software updates via WEB downloads

Capacity	Cables Supplied	Speed	Digi-Key Part No.	Price Each
256Kbit/ 32K x 8	28-Pin Dip	45ns	ER3-256-ND	179.00
512Kbit/ 64K x 8	28-Pin Dip	45ns	ER3-512-ND	239.00
1Mbit/ 128K x 8	28 and 32-Pin Dip	45ns	ER3-1M-ND	299.00
4Mbit/ 512K x 8	28 and 32-Pin Dip	45ns	ER3-4M-ND	399.00
8Mbit/ 1M x 8	28 and 32-Pin Dip	45ns	ER3-8M-ND	499.00

FR3 FlexROM III FLASH, EPROM and SRAM Emulator

FlexROM III emulators provide engineers with a fast flexible development tool for any Embedded project that uses an external FLASH, EPROM or SRAM device. The FR3 increases productivity by elimination of the "burn/insert/test/erase" cycle and by downloading firmware code or data into the emulator at a fast 2.5 Mbits per second. **Features:** • Active Cable Modules (ACM™) contain Target interface and Control Logic • Provides adaptability to new Target Technologies • Hard-ware Instrumentation: Target Voltage Measure- ment, Address Snap-Shot Circuit, Address Match and Trigger Circuit • Reverse Voltage Protection • Adjustable Timing Parameters • Read-back, Verify and Self-test functions • Connects to any Parallel Port • All sizes and speeds can be Daisy-chained together • Daisy-chain cable included • Mini-clip cable included for Reset connection • LPT cable included • Target cable(s) included • Includes 2 versions of software: 16 bit DOS version and 32 bit Win9X/NT/2000 version • QuickLoader with Full-screen editor included • Batchable loader and utilities included • Accepts Intel HEX., Tektronix HEX, Motorolla 'S' records and binary files • Free software updates via WEB downloads

Size	Organization	Speed	Digi-Key Part No.	Price Each
Base Unit*				
1 Mbit	128Kx8/64Kx16	45ns	FR3-1M-ND	279.00
4 Mbit	512Kx8/256Kx16	45ns	FR3-4M-ND	379.00
8 Mbit	1Mx8/512Kx16	45ns	FR3-8M-ND	529.00
16 Mbit	2Mx8/1Mx16	45ns	FR3-16M-ND	679.00

*Base Unit requires at least one ACM™ target interface

Description	Digi-Key Part No.	Price Each
Active Cable Module (ACM™)		
8 Bit Interface with/DIP28 and DIP32 Cable	ACM-8-ND	120.00
16 Bit Interface with/DIP40 Cable	ACM-16-ND	120.00

ICEPIC, ICEPIC2 and ICEPIC3 PIC Emulators

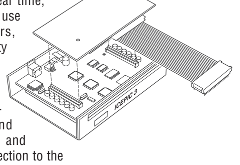

ICEPIC, ICEPIC2, and the ICEPIC3 emulators are fully modular, full speed, real time, in-circuit emulator systems, for use with Microchip PIC processors, using interchangeable "personality daughterboards" which connect directly to the users target board and are sold separately. The ICEPIC3 Emulator is compact, portable, lightweight and offers exceptional performance and value. It uses a quick "hot" connection to the host computer via USB Port, with the system firmware being upgraded at any time from the internet giving total upgrade ability. The ICEPIC3 has additional real-time analysis when using the plug-in trace board which is sold separately. All ICEPIC emulators operate within Microchip's MPLAB 32bit IDE giving the user easy control to perform efficient fast emulation. ICEPIC emulators are supplied as complete systems with power supply, cables, manual and a copy of Microchip's MPASM assembler.

Features	ICEPIC	ICEPIC2	ICEPIC3
Real-Time Emulation	32KHz ~ 20MHz	32KHz ~ 33MHz	1KHz ~ 50MHz
Device Emulated	12C, 16C	12C, 16C, 17C	PIC12, 16, 18
Runs Under MPLAB	Yes	Yes	Yes
Source Level Debug	Yes	Yes	Yes
"C" Source Level Debug	Yes	Yes	Yes
Real Time Trace	No	Yes	Yes*
Time Stamp	Yes	Yes	Yes*
Freeze Mode	Yes	Yes	Yes
Break Points	Unlimited	Unlimited	Unlimited
Stack Breaks	Yes	Yes	Yes
WDT Breaks	Yes	Yes	Yes
Stack View	Yes	Yes	Yes
Custom Watch	Yes	Yes	Yes
Assembler Support	MPASM	MPASM	MPASM
Communications	RS-232"C"	RS-232"C"	USB

* Using optional Modular Trace Board I3-TRACER1-ND

Description	Digi-Key Part No.	Price Each
ICSP Adaptor		
In-Circuit Serial Programming Adaptor	ISPICR1-ND	35.00
ICEPIC Emulators		
ICEPIC Emulator System	ICEPIC-ND	542.77
ICEPIC2 Emulator System	ICEPIC2-ND	820.00
ICEPIC3 Emulator System	ICEPIC3-US-ND	900.00
ICEPIC Daughter Boards		
12C671, 16C672	DB12C67X-ND	375.00
12C508/509, 16C54/55/56/57/58, 16C505	DB5XA-ND	320.00
16C554, 16C556, 16C558	DB55X-ND	375.00
16C620, 16C621, 16C622	DB62X-ND	375.00
16C641/642/661/662	DB66X-ND	450.00
16C61, 16C71, 16C710, 16C711	DB711-ND	375.00
16C715	DB715-ND	375.00
16C62/63/64/65/72/73/74	DB74A-ND	450.00
16C66, 16C67, 16C76, 16C77	DB77-ND	450.00
16C772, 16C773, 16C774	DB77X-ND	375.00
16C84, 16F83, 16F84	DB84A-ND	375.00
16F872/873/874/876/877	DB877-ND	375.00
17C42/43/44, 17C752/756 (ICEPIC2 Only)	DB756-ND	375.00
16F628	DBF628-ND	375.00
16F73, 16F74, 16F76, 16F77	DBF77-ND	450.00
16F870/71	DBF871-ND	335.00
Accessories		
44-Pin PLCC Adapter (For emulation of 16Cxx In PLCC Only)	PLCC44-RF-ND	125.00
ICEPIC3 Daughter Boards		
12F675, 12F629	I3DB12F675-ND	375.00
12F683	I3DB12F683-ND	375.00
16F684A	I3DB16F84A-ND	375.00
16F716	I3DB16F716-ND	375.00
16F871, 16F870	I3DB16F871-ND	375.00
18C452/442/252/242	I3DB18C452-ND	375.00
18F2220/2320/4220/4320	I3DB18F4320-ND	375.00
18F452/442/252/242	I3DB18F452-ND	375.00
18F1320, 18F1220	I3DB18F1320-ND	375.00
18F4431/4331/2431/2331	I3DB18F4431-ND	375.00
18F4550/2455/2550/4445	I3DB18F4550-ND	375.00
18F4620/4525/2620/2525	I3DB18F4620-ND	375.00
18F4680/2680/2585/4685	I3DB18F4680-ND	375.00
18F8720/8620/6720/6620	I3DB18F8620-ND	375.00
18F8722/6722/8627/6627	I3DB18F8722-ND	375.00
16F872A/873A/874A/876A/877A	I3DB877A-ND	375.00
16F627A, 16F628A, 16F648A	I3DBF648-ND	375.00
16F676, 16F630	I3DBF676-ND	375.00
16F72, 16F73, 16F74, 16F76, 16F77	I3DBF77-ND	375.00
16F737, 16F767, 16F747, 16F777	I3DBF777-ND	375.00
16F818, 16F819	I3DBF819-ND	375.00
16F87, 16F88	I3DBF88-ND	375.00
Trace Boards		
ICEPIC3 Trace Board	I3-TRACER1-ND	775.00

CPU/System Supervisors

Nominal Reset Volt. (V)	Reset Type	Output	Watchdog Timer	Manual Reset	Package	Vcc Range (V)	Digi-Key Part No.	Price Each			Tape and Reel*	
								1	25	100	Size	Pricing
2.625	Active Low	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP100-270DI/TO-ND	.33	.26	.24	—	—
2.925	Active Low	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP100-300DI/TO-ND	.33	.26	.24	—	—
3.075	Active Low	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP100-315DI/TO-ND	.33	.26	.24	—	—
4.375	Active Low	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP100-450DI/TO-ND	.33	.26	.24	—	—
4.475	Active Low	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP100-460DI/TO-ND	.33	.26	.24	—	—
4.725	Active Low	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP100-485DI/TO-ND	.33	.26	.24	—	—
2.625	Active Low	CMOS Push-PUll	No	No	TO-92	1.0-5.5	MCP100-270HI/TO-ND	.33	.26	.24	—	—
2.925	Active Low	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP100-300HI/TO-ND	.33	.26	.24	—	—
3.075	Active Low	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP100-315HI/TO-ND	.33	.26	.24	—	—
4.375	Active Low	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP100-450HI/TO-ND	.33	.26	.24	—	—
4.625	Active Low	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP100-475HI/TO-ND	.33	.26	.24	—	—
4.725	Active Low	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP100-485HI/TO-ND	.33	.26	.24	—	—
2.625	Active Low	CMOS Push-Pull	No	No	SOT23-5	1.0-5.5	MCP100T-270I/TTCT-ND	.36	.33	.30	3,000	240.00/M
2.925	Active Low	CMOS Push-Pull	No	No	SOT23-5	1.0-5.5	MCP100T-300I/TTCT-ND	.36	.33	.30	3,000	240.00/M
3.075	Active Low	CMOS Push-Pull	No	No	SOT23-5	1.0-5.5	MCP100T-315I/TTCT-ND	.36	.33	.30	3,000	240.00/M
4.375	Active Low	CMOS Push-Pull	No	No	SOT23-5	1.0-5.5	MCP100T-450I/TTCT-ND	.36	.33	.30	3,000	240.00/M
4.475	Active Low	CMOS Push-Pull	No	No	SOT23-5	1.0-5.5	MCP100T-460I/TTCT-ND	.36	.33	.30	3,000	240.00/M
4.625	Active Low	CMOS Push-Pull	No	No	SOT23-5	1.0-5.5	MCP100T-475I/TTCT-ND	.36	.33	.30	3,000	240.00/M
4.725	Active Low	CMOS Push-Pull	No	No	SOT23-5	1.0-5.5	MCP100T-485I/TTCT-ND	.36	.33	.30	3,000	240.00/M
2.625	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-270DI/TO-ND	.33	.26	.24	—	—
2.925	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-300DI/TO-ND	.33	.26	.24	—	—
3.075	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-315DI/TO-ND	.33	.26	.24	—	—
4.375	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-450DI/TO-ND	.33	.26	.24	—	—
4.475	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-460DI/TO-ND	.33	.26	.24	—	—
4.625	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-475DI/TO-ND	.33	.26	.24	—	—
4.725	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-485DI/TO-ND	.33	.26	.24	—	—
2.625	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-270HI/TO-ND	.33	.26	.24	—	—
2.925	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-300HI/TO-ND	.33	.26	.24	—	—
3.075	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-315HI/TO-ND	.33	.26	.24	—	—
4.375	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-450HI/TO-ND	.33	.26	.24	—	—
4.475	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-460HI/TO-ND	.33	.26	.24	—	—
4.625	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-475HI/TO-ND	.33	.26	.24	—	—
4.725	Active High	CMOS Push-Pull	No	No	TO-92	1.0-5.5	MCP101-485HI/TO-ND	.33	.26	.24	—	—
1.900	Active Low	Push-Pull	No	No	TO-92	1.0-5.5	MCP102-195I/TO-ND	.48	.38	.36	—	—
1.900	Active Low	Push-Pull	No	No	SC-70	1.0-5.5	MCP102T-195I/LBCT-ND	.53	.48	.43	3,000	310.00/M
1.900	Active Low	Push-Pull	No	No	SOT-23B	1.0-5.5	MCP102T-195I/TTCT-ND	.53	.48	.43	3,000	310.00/M
1.900	Active Low	Push-Pull	No	No	SC-70	1.0-5.5	MCP103T-195I/LBCT-ND	.53	.48	.43	3,000	310.00/M
1.900	Active Low	Push-Pull	No	No	SOT-23B	1.0-5.5	MCP103T-195I/TTCT-ND	.53	.48	.43	3,000	310.00/M
2.625	Active Low	Open Drain	No	No	TO-92	1.0-5.5	MCP120-270DI/TO-ND	.43	.35	.32	—	—
2.925	Active Low	Open Drain	No	No	TO-92	1.0-5.5	MCP120-300DI/TO-ND	.43	.35	.32	—	—
4.375	Active Low	Open Drain	No	No	TO-92	1.0-5.5	MCP120-450DI/TO-ND	.43	.35	.32	—	—
4.475	Active Low	Open Drain	No	No	TO-92	1.0-5.5	MCP120-460DI/TO-ND	.43	.35	.32	—	—
4.625	Active Low	Open Drain	No	No	TO-92	1.0-5.5	MCP120-475DI/TO-ND	.43	.35	.32	—	—
4.725	Active Low	Open Drain	No	No	TO-92	1.0-5.5	MCP120-485DI/TO-ND	.43	.35	.32	—	—
2.625	Active Low	Open Drain	No	No	SOT-23	1.0-5.5	MCP120T-270I/TTCT-ND	.48	.43	.39	3,000	320.00/M
2.925	Active Low	Open Drain	No	No	SOT-23	1.0-5.5	MCP120T-300I/TTCT-ND	.48	.43	.39	3,000	320.00/M
3.075	Active Low	Open Drain	No	No	SOT-23	1.0-5.5	MCP120T-315I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.375	Active Low	Open Drain	No	No	SOT-23	1.0-5.5	MCP120T-450I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.475	Active Low	Open Drain	No	No	SOT-23	1.0-5.5	MCP120T-460I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.625	Active Low	Open Drain	No	No	SOT-23	1.0-5.5	MCP120T-475I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.725	Active Low	Open Drain	No	No	SOT-23	1.0-5.5	MCP120T-485I/TTCT-ND	.48	.43	.39	3,000	320.00/M
1.900	Active Low	Open Drain	No	No	TO-92	1.0-5.5	MCP121-195I/TO-ND	.48	.34	.31	—	—
1.900	Active Low	Open Drain	No	No	SC-70	1.0-5.5	MCP121T-195I/LBCT-ND	.53	.48	.43	3,000	310.00/M
1.900	Active Low	Open Drain	No	No	SOT-23B	1.0-5.5	MCP121T-195I/TTCT-ND	.53	.48	.43	3,000	310.00/M
2.625	Active Low	Open Drain †	No	No	TO-92	1.0-5.5	MCP130-270DI/TO-ND	.43	.33	.30	—	—
2.925	Active Low	Open Drain †	No	No	TO-92	1.0-5.5	MCP130-300DI/TO-ND	.43	.33	.30	—	—
3.075	Active Low	Open Drain †	No	No	TO-92	1.0-5.5	MCP130-315DI/TO-ND	.43	.33	.30	—	—
4.375	Active Low	Open Drain †	No	No	TO-92	1.0-5.5	MCP130-450DI/TO-ND	.43	.33	.30	—	—
4.475	Active Low	Open Drain †	No	No	TO-92	1.0-5.5	MCP130-460DI/TO-ND	.43	.33	.30	—	—
4.625	Active Low	Open Drain †	No	No	TO-92	1.0-5.5	MCP130-475DI/TO-ND	.43	.33	.30	—	—
4.725	Active Low	Open Drain †	No	No	TO-92	1.0-5.5	MCP130-485DI/TO-ND	.43	.33	.30	—	—
2.625	Active Low	Open Drain †	No	No	SOT-23	1.0-5.5	MCP130T-270I/TTCT-ND	.48	.43	.39	3,000	300.00/M
2.925	Active Low	Open Drain †	No	No	SOT-23	1.0-5.5	MCP130T-300I/TTCT-ND	.48	.43	.39	3,000	300.00/M
3.075	Active Low	Open Drain †	No	No	SOT-23	1.0-5.5	MCP130T-315I/TTCT-ND	.48	.43	.39	3,000	300.00/M
4.375	Active Low	Open Drain †	No	No	SOT-23	1.0-5.5	MCP130T-450I/TTCT-ND	.48	.43	.39	3,000	300.00/M
4.475	Active Low	Open Drain †	No	No	SOT-23	1.0-5.5	MCP130T-460I/TTCT-ND	.48	.43	.39	3,000	300.00/M
4.625	Active Low	Open Drain †	No	No	SOT-23	1.0-5.5	MCP130T-475I/TTCT-ND	.48	.43	.39	3,000	300.00/M
4.725	Active Low	Open Drain †	No	No	SOT-23	1.0-5.5	MCP130T-485I/TTCT-ND	.48	.43	.39	3,000	300.00/M
1.900	Active Low	Open Drain †	No	No	TO-92	1.0-5.5	MCP131-195I/TO-ND	.48	.34	.31	—	—
1.900	Active Low	Open Drain †	No	No	SC-70	1.0-5.5	MCP131T-195I/LBCT-ND	.53	.48	.43	3,000	310.00/M
1.900	Active Low	Open Drain †	No	No	SOT-23B	1.0-5.5	MCP131T-195I/TTCT-ND	.53	.48	.43	3,000	310.00/M
2.625	Active Low	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP809T-270I/TTCT-ND	.48	.43	.39	3,000	320.00/M
2.925	Active Low	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP809T-300I/TTCT-ND	.48	.43	.39	3,000	320.00/M
3.075	Active Low	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP809T-315I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.375	Active Low	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP809T-450I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.475	Active Low	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP809T-460I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.625	Active Low	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP809T-475I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.725	Active Low	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP809T-485I/TTCT-ND	.48	.43	.39	3,000	320.00/M
2.625	Active High	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP810T-270I/TTCT-ND	.48	.43	.39	3,000	320.00/M
2.925	Active High	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP810T-300I/TTCT-ND	.48	.43	.39	3,000	320.00/M
3.075	Active High	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP810T-315I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.375	Active High	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP810T-450I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.475	Active High	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP810T-460I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.625	Active High	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP810T-475I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.725	Active High	CMOS Push-Pull	No	No	SOT-23	1.0-5.5	MCP810T-485I/TTCT-ND	.48	.43	.39	3,000	320.00/M
4.5	Active Low	Open Drain	Yes	No	SOT-223	4.5-5.5	TC32MEDB713CT-ND	1.87	1.62	1.46	4,000	1190.00/M
4.5	Active Low	Open Drain	Yes	No	TO-92	4.5-5.5	TC32MCZB-ND	1.58	1.11	1.00	—	—
4.62 and 4.37	Active Low/High	Open Drain	Yes	No	8-SOIC	4.5-5.5	TC1232COA-ND	1.15	.79	.71	—	—
4.62 and 4.37	Active Low/High	Open Drain	Yes	No	16-SOIC	4.5-5.5	TC1232COE-ND	1.98	1.29	1.23	—	—
4.62 and 4.37	Active Low/High	Open Drain	Yes	No	8-DIP	4.5-5.5	TC1232CPA-ND	1.15	.79	.71	—	—
4.62 and 4.37	Active Low/High	Open Drain	Yes	No	8-SOIC	4.5-5.5	TC1232EOA-ND	1.04	.73	.71	—	—
4.62 and 4.37	Active Low/High	Open Drain	Yes	No	8-DIP	4.5-5.5	TC1232EPA-ND	1.15	.73	.71	—	—
1.75	Active Low	CMOS Push-Pull	No	No	SOT-143-4	1.2-5.5	TC1270FERCCT-ND	.64	.58	.52	3,000	360.00/M
2.93	Active Low	CMOS Push-Pull	No	No	SOT-143	1.2-5.5	TC1270SERCCT-ND	.64	.58	.52	3,000	360.00/M
3.08	Active Low	CMOS Push-Pull	No	No	SOT-143-4	1.2-5.5	TC1270TERCTRCT-ND	.58	.46	.41	3,000	360.00/M
4.38	Active High	CMOS Push-Pull	No	No	SOT-143-4	1.2-5.5	TC1271MERCCT-ND	.64	.58	.52	3,000	360.00/M
4.62	Active Low	Open Drain	No	No	SOT-23B-3	1.2-5.5	TC1273-5ENBCT-ND	.64	.58	.52	3,000	360.00/M
4.12	Active High	CMOS Push-Pull	No	No	SOT-23B-3	1.8-5.5	TC1274-15ENBCT-ND	.64	.58	.52	3,000	360.00/M
4.62	Active High	CMOS Push-Pull	No	No	STO-23B-3	1.8-5.5	TC1274-5ENBCT-ND	.64	.58	.52	3,000	360.00/M
2.88	Active Low	CMOS Push-Pull	No	No	SOT-23B	1.2-5.5	TC1275-10ENBCT-ND	.64	.58	.52	3,000	360.00/M

*For Tape and Reel Part No., change CT-ND to TR-ND. † with 5k Ω pull-up

(Continued)

CPU/System Supervisors *(Cont.)*

Nominal Reset Volt. (V)	Reset Type	Output	Watchdog Timer	Manual Reset	Package	Vcc Range (V)	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Size	Pricing
2.55	Active Low	Open Drain	No	No	SOT-23B	1.2-5.5	TC1276-20ENBCT-ND	.64	.58	.52	3,000	360.00/M
4.00	Active Low	CMOS Push-Pull	No	No	SOT-23B-3	1.2-5.5	TCM809JVNB713CT-ND	.36	.33	.30	3,000	250.00/M
4.63	Active Low	CMOS Push-Pull	No	No	SOT-23B	1.2-5.5	TCM809LENB713CT-ND	.46	.39	.33	3,000	250.00/M
4.63	Active Low	CMOS Push-Pull	No	No	SC70-3	1.2-5.5	TCM809LVLB713CT-ND	.36	.33	.30	3,000	250.00/M
4.63	Active Low	CMOS Push-Pull	No	No	SOT-23B-3	1.2-5.5	TCM809LVNB713CT-ND	.36	.33	.30	3,000	250.00/M
4.38	Active Low	CMOS Push-Pull	No	No	SOT-23B	1.2-5.5	TCM809MENB713CT-ND	.46	.39	.33	3,000	250.00/M
4.38	Active Low	CMOS Push-Pull	No	No	SC70-3	1.2-5.5	TCM809MVLB713CT-ND	.36	.33	.30	3,000	250.00/M
4.38	Active Low	CMOS Push-Pull	No	No	SOT23B-3	1.2-5.5	TCM809MVNB713CT-ND	.36	.33	.30	3,000	250.00/M
2.63	Active Low	CMOS Push-Pull	No	No	SOT-23B	1.2-5.5	TCM809RENB713CT-ND	.46	.39	.33	3,000	250.00/M
2.63	Active Low	CMOS Push-Pull	No	No	SC70-3	1.2-5.5	TCM809RVLB713CT-ND	.36	.33	.30	3,000	250.00/M
2.63	Active Low	CMOS Push-Pull	No	No	SOT-23B-3	1.2-5.5	TCM809RVNB713CT-ND	.36	.33	.30	3,000	250.00/M
2.93	Active Low	CMOS Push-Pull	No	No	SC70-3	1.2-5.5	TCM809SVLB713CT-ND	.36	.33	.30	3,000	250.00/M
2.93	Active Low	CMOS Push-Pull	No	No	SOT-23B	1.2-5.5	TCM809SVNB713CT-ND	.36	.33	.30	3,000	250.00/M
3.08	Active Low	CMOS Push-Pull	No	No	SOT-23B	1.2-5.5	TCM809TVNB713CT-ND	.36	.33	.30	3,000	250.00/M
4.63	Active High	CMOS Push-Pull	No	No	SOT-23B	1.2-5.5	TCM810LENB713CT-ND	.46	.39	.33	3,000	250.00/M
2.63	Active High	CMOS Push-Pull	No	No	SOT-23B	1.2-5.5	TCM810RENB713CT-ND	.46	.39	.33	3,000	250.00/M
2.63	Active High	CMOS Push-Pull	No	No	SOT-23B	1.2-5.5	TCM810RVNB713CT-ND	.36	.33	.30	3,000	250.00/M
3.08	Active High	CMOS Push-Pull	No	No	SOT-23B	1.2-5.5	TCM810TENB713CT-ND	.61	.53	.48	—	—
1.75	Active Low	CMOS Push-Pull	No	No	SOT-143-4	1.0-5.5	TCM811FERCCT-ND	.56	.50	.45	3,000	330.00/M

*For Tape and Reel Part No., change CT-ND to TR-ND.

Voltage Detectors

Nominal Reset Volt. (V)	Reset Type	Output	Watchdog Timer	Manual Reset	Package	Vcc Range (V)	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Size	Pricing
2.70	Active Low	CMOS Push-Pull	No	No	SOT-23A	0.7-10	TC54VC2702ECB71CT-ND	.63	.54	.45	3,000	310.00/M
2.90	Active Low	CMOS Push-Pull	No	No	SOT-23A	0.7-10	TC54VC2902ECB71CT-ND	.54	.51	.45	3,000	310.00/M
4.30	Active Low	CMOS Push-Pull	No	No	SOT-23A	0.7-10	TC54VC4302ECB71CT-ND	.60	.50	.45	3,000	320.00/M
4.30	Active Low	CMOS Push-Pull	No	No	SOT-89	0.7-10	TC54VC4302EMB71CT-ND	.60	.50	.45	1,000	320.00
4.50	Active Low	CMOS Push-Pull	No	No	SOT-23A	0.7-10	TC54VC4502ECB71CT-ND	.83	.73	.65	3,000	481.00/M
2.70	Active Low	Open Drain	No	No	SOT-23A	0.7-10	TC54VN2702ECB71CT-ND	.63	.54	.45	3,000	310.00/M
2.90	Active Low	Open Drain	No	No	SOT-23A	0.7-10	TC54VN2902ECB71CT-ND	.54	.45	.41	—	—
3.00	Active Low	Open Drain	No	No	SOT-23A	0.7-10	TC54VN3002ECB71CT-ND	.54	.51	.45	3,000	310.00/M
4.30	Active Low	Open Drain	No	No	SOT-23A	0.7-10	TC54VN4302ECB71CT-ND	.60	.50	.45	3,000	320.00/M
4.50	Active Low	Open Drain	No	No	SOT-23A	0.7-10	TC54VN4502ECB71CT-ND	.83	.73	.65	3,000	481.00/M
4.50	Active Low	Open Drain	No	No	SOT-89	0.7-10	TC54VN4502EMB71CT-ND	.83	.73	.65	1,000	481.00

*For Tape and Reel Part No., change CT-ND to TR-ND.

DC/DC Converters

Description	Input Voltage (V)	Output Voltage (V)	Max. Input Current (µA)	Typical Active Output Current (mA)	Operating Temperature (C°)	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Size	Pricing
Regulated	2.0 - 5.5	3.3 or 5.0	120	120mA for Vin>, 3.0V	-45°C ~ 85°C	8-MSOP	MCP1252-33X50I/MS-ND	2.20	1.58	1.44	—	—
Regulated	2.0 - 5.5	3.3 or 5.0	120	120mA for Vin>, 3.0V	-45°C ~ 85°C	8-MSOP	MCP1252-ADJI/MS-ND	2.20	1.58	1.44	—	—
Regulated	2.0 - 5.5	3.3 or 5.0	120	120mA for Vin>, 3.0V	-45°C ~ 85°C	8-MSOP	MCP1253-33X50I/MS-ND	2.20	1.58	1.44	—	—
Regulated	2.0 - 5.5	3.3 or 5.0	120	120mA for Vin>, 3.0V	-45°C ~ 85°C	8-MSOP	MCP1253-ADJI/MS-ND	2.20	1.58	1.44	—	—
Inverting or Doubling	2.4 - 5.5	-Vin or 2Vin	100	100	-45°C ~ 85°C	8-SOIC	TC1121COA-ND	1.83	1.25	1.13	—	—
Inverting or Doubling	2.4 - 5.5	-Vin or 2Vin	100	100	-45°C ~ 85°C	8-DIP	TC1121CPA-ND	1.88	1.28	1.16	—	—
Inverting or Doubling	1.5 - 5.5	-Vin or 2Vin	115	25	-45°C ~ 85°C	SOT-23A-6	TC1219ECHCT-ND	1.23	1.10	.99	3,000	680.00/M
Inverting or Doubling	1.5 - 5.5	-Vin or 2Vin	325	25	-45°C ~ 85°C	SOT-23A-6	TC1220ECHCT-ND	1.23	1.10	.99	3,000	680.00/M
Inverting or Doubling	1.5 - 10	-Vin or 2Vin	180	20	-45°C ~ 85°C	8-SOIC	TC7660COA-ND	.70	.48	.43	—	—
Inverting or Doubling	1.5 - 10	-Vin or 2Vin	180	20	-45°C ~ 85°C	8-DIP	TC7660CPA-ND	.70	.48	.43	—	—
Inverting or Doubling	1.5 - 10	-Vin or 2Vin	180	20	-45°C ~ 85°C	8-SOIC	TC7660EOA-ND	.63	.46	.43	—	—
Inverting or Doubling	1.5 - 10	-Vin or 2Vin	1000	20	-45°C ~ 85°C	8-DIP	TC7660HCPA-ND	.79	.58	.55	—	—
Inverting or Doubling	1.5 - 10	-Vin or 2Vin	160	20	-45°C ~ 85°C	8-SOIC	TC7660SCOA-ND	.80	.54	.49	—	—
Inverting or Doubling	1.5 - 10	-Vin or 2Vin	160	20	-45°C ~ 85°C	8-DIP	TC7660SCPA-ND	.72	.52	.49	—	—
Inverting or Doubling	1.5 - 10	-Vin or 2Vin	160	20	-45°C ~ 85°C	8-SOIC	TC7660SEOA713CT-ND	1.04	.95	.87	3,300	490.00/M
Inverting or Doubling	1.5 - 10	-Vin or 2Vin	160	20	-45°C ~ 85°C	8-DIP	TC7660SEPA-ND	.72	.52	.49	—	—
Inverting or Doubling	3.0 - 18	-Vin or 2Vin	200	40	-45°C ~ 85°C	8-DIP	TC7662ACPA-ND	2.30	1.58	1.43	—	—
Inverting or Doubling	3.0 - 18	-Vin or 2Vin	200	40	-45°C ~ 85°C	8-DIP	TC7662AEPA-ND	2.84	2.06	1.96	—	—
Inverting or Doubling	3.0 - 18	-Vin or 2Vin	200	40	-45°C ~ 85°C	8-CDIP	TC7662AIJA-ND	7.29	5.30	5.04	—	—
Inverting or Doubling	1.5 - 15	-Vin or 2Vin	180	20	-45°C ~ 85°C	8-SOIC	TC7662BCOA-ND	1.65	1.13	1.03	—	—
Inverting or Doubling	1.5 - 15	-Vin or 2Vin	180	20	-45°C ~ 85°C	8-DIP	TC7662BCPA-ND	1.49	1.08	1.03	—	—
Inverting or Doubling	1.5 - 15	-Vin or 2Vin	180	20	-45°C ~ 85°C	8-SOIC	TC7662BEOA-ND	1.93	1.33	1.20	—	—
Inverting or Doubling	1.5 - 15	-Vin or 2Vin	180	20	-45°C ~ 85°C	8-SOIC	TC7662BEOA713CT-ND	1.73	1.51	1.35	3,300	1200.00/M
Inverting or Doubling	1.5 - 15	-Vin or 2Vin	180	20	-45°C ~ 85°C	8-DIP	TC7662BEPA-ND	1.73	1.26	1.20	—	—
Inverting or Doubling	3.0 - 18	-Vin or 2Vin	200	80	-45°C ~ 85°C	(wide) 16-SOIC	TC962COE-ND	2.27	1.66	1.57	—	—
Inverting or Doubling	3.0 - 18	-Vin or 2Vin	200	80	-45°C ~ 85°C	8-DIP	TC962CPA-ND	2.53	1.74	1.57	—	—
Inverting or Doubling	1.5 - 5.5	-Vin or 2Vin	260	25	-45°C ~ 85°C	SOT-23A-5	TCM829ECT713CT-ND	.88	.75	.63	3,000	420.00/M
Evaluation Board for MCP1601							MCP1601EV-ND		30.00/1			
Demo Board for MCP1252							MCP1252DM-BKLT-ND		30.00/1			

*For Tape and Reel Part No., change CT-ND to TR-ND.

Linear Voltage Regulator

Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (mA)	Typical Dropout Volt. @ Max. Iout (mV)	Typical Output Volt. Accuracy (%)	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Size	Pricing
6	1.8	250	1	300	0.4	SOT-23	MCP1700T1802ETTCT-ND	.63	.58	.55	3,000	300.00/M
6	1.8	250	1	300	0.4	SOT-89	MCP1700T1802EMBCT-ND	.63	.58	.55	1,000	300.00
6	1.8	250	1	300	0.4	TO-92	MCP1700-1802E/TO-ND	.63	.36	.30	—	—
6	3.3	250	1	300	0.4	SOT-23	MCP1700T3302ETTCT-ND	.63	.58	.55	3,000	300.00/M
6	3.3	250	1	300	0.4	SOT-89	MCP1700T3302EMBCT-ND	.63	.58	.55	1,000	300.00
6	3.3	250	1	300	0.4	TO-92	MCP1700-3302E/TO-ND	.63	.36	.30	—	—
6	5.0	250	1	300	0.4	SOT-23	MCP1700T5002ETTCT-ND	.63	.58	.55	3,000	300.00/M
6	5.0	250	1	300	0.4	SOT-89	MCP1700T5002EMBCT-ND	.63	.58	.55	1,000	300.00
6	5.0	250	1	300	0.4	TO-92	MCP1700-5002E/TO-ND	.63	.36	.30	—	—
6	1.8	50	50	85	0.5	SOT-23A-5	TC10141.8VCT713CT-ND	.56	.50	.45	3,000	300.00/M
6	2.7	50	50	85	0.5	SOT-23A-5	TC10142.7VCT713CT-ND	.56	.50	.45	3,000	300.00/M
6	5.0	50	50	85	0.5	SOT-23A-5	TC10145.0VCT713CT-ND	.56	.50	.45	3,000	300.00/M
6	2.5	100	50	180	0.5	SOT-23A-5	TC10152.5VCT713CT-ND	.53	.48	.42	3,000	320.00/M
6	2.8	100	50	180	0.5	SOT-23A-5	TC10152.8VCT713CT-ND	.53	.42	.37	3,000	320.00/M
6	3.0	100	50	180	0.5	SOT-23A-5	TC10153.0VCT713CT-ND	.53	.48	.42	3,000	320.00/M
6	4.0	100	50	180	0.5	SOT-23A-5	TC10154.0VCT713CT-ND	.53	.42	.37	3,000	320.00/M
6	1.8	80	50	150	0.5	SC-70-5	TC1016-1.8VLTCT-ND	.64	.58	.52	3,000	330.00/M
6	2.7	80	50	150	0.5	SC-70-5	TC1016-2.7VLTCT-ND	.64	.58	.52	3,000	330.00/M
6	3.0	80	50	150	0.5	SC-70-5	TC1016-3.0VLTCT-ND	.64	.58	.52	3,000	330.00/M

*For Tape and Reel Part No., change CT-ND to TR-ND.

(Continued)

MICROCHIP

Power Management *(Cont.)*

Linear Voltage Regulator *(Cont.)*

Max. Input Voltage (V)	Output Voltage (V)	Output Current (mA)	Typical Active Current (mA)	Typical Dropout Volt. @ Max. Iout (mV)	Typical Output Volt. Accuracy (%)	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Size	Pricing
6	2.5	100	50	180	0.5	SOT-23A-5	TC10552.5VCT713CT-ND	.83	.66	.58	3,000	320.00/M
6	2.7	100	50	180	0.5	SOT-23A-5	TC10552.7VCT713CT-ND	.83	.66	.58	3,000	320.00/M
6	3.0	100	50	180	0.5	SOT-23A-5	TC10553.0VCT713CT-ND	.83	.66	.58	3,000	320.00/M
6	3.3	100	50	180	0.5	SOT-23A-5	TC10553.3VCT713CT-ND	.53	.48	.42	3,000	320.00/M
6	1.8	100	50	180	0.5	SOT-23A-5	TC10551.8VCT713CT-ND	.59	.53	.48	3,000	320.00/M
6	5.0	100	50	180	0.5	SOT-23A-5	TC10555.0VCT713CT-ND	.83	.66	.58	3,000	320.00/M
6	1.23-5.5	100	50	180	—	SOT-23A-5	TC1071VCT713CT-ND	.72	.68	.60	3,000	380.00/M
6	2.5	100	50	180	0.5	SOT-23A-6	TC10732.5VCH713CT-ND	.90	.78	.70	3,000	480.00/M
6	1.8	100	50	180	0.5	SOT-23A-6	TC10731.8VCH713CT-ND	.87	.78	.70	3,000	480.00/M
6	3.0	100	50	180	0.5	SOT-23A-6	TC10733.0VCH713CT-ND	.90	.78	.70	3,000	480.00/M
6	3.3	100	50	180	0.5	SOT-23A-6	TC10733.3VCH713CT-ND	.90	.78	.70	—	—
6	5.0	100	50	180	0.5	SOT-23A-6	TC10735.0VCH713CT-ND	.70	.61	.55	3,000	480.00/M
6	2.5	300	50	240	0.5	8-SOIC	TC1107-2.5VOA-ND	.78	.50	.48	—	—
6	2.5	300	50	240	0.5	8-MSOP	TC1107-2.5VUA-ND	.78	.50	.48	—	—
6	2.5	300	50	240	0.5	8-MSOP	TC1107-2.5VUACT-ND	.87	.78	.70	2,500	480.00/M
6	2.7	300	50	240	0.5	8-MSOP	TC1107-2.7VUA-ND	.78	.50	.48	—	—
6	2.7	300	50	240	0.5	8-SOIC	TC1107-2.7VOA-ND	.78	.50	.48	—	—
6	3.0	300	50	240	0.5	8-MSOP	TC1107-3.0VUACT-ND	.87	.78	.70	2,500	480.00/M
6	3.0	300	50	240	0.5	8-MSOP	TC1107-3.0VUA-ND	.78	.50	.48	—	—
6	3.0	300	50	240	0.5	8-SOIC	TC1107-3.0VOA-ND	.78	.50	.48	—	—
6	3.3	300	50	240	0.5	8-SOIC	TC1107-3.3VOA-ND	.78	.50	.48	—	—
6	3.3	300	50	240	0.5	8-MSOP	TC1107-3.3VUA-ND	.78	.50	.48	—	—
6	5.0	300	50	240	0.5	8-SOIC	TC1107-5.0VOA-ND	.78	.50	.48	—	—
6	5.0	300	50	240	0.5	8-MSOP	TC1107-5.0VUA-ND	.78	.50	.48	—	—
6	2.5	300	50	240	0.5	SOT223-3	TC1108-2.5VDBCT-ND	.87	.78	.70	4,000	480.00/M
6	1.8	150	50	270	0.5	SOT-23A-5	TC11851.8VCT713CT-ND	.62	.55	.50	3,000	340.00/M
6	2.5	150	50	270	0.5	SOT-23A-5	TC11852.5VCT713CT-ND	.55	.44	.39	3,000	330.00/M
6	2.7	150	50	270	0.5	SOT-23A-5	TC11852.7VCT713CT-ND	.55	.44	.39	3,000	340.00/M
6	2.8	150	50	270	0.5	SOT-23A-5	TC11852.8VCT713CT-ND	.55	.44	.39	3,000	330.00/M
6	2.85	150	50	270	0.5	SOT-23A-5	TC11852.85VCT71CT-ND	.50	.43	.39	3,000	340.00/M
6	3.0	150	50	270	0.5	SOT-23A-5	TC11853.0VCT713CT-ND	.55	.44	.39	3,000	340.00/M
6	3.3	150	50	270	0.5	SOT-23A-5	TC11853.3VCT713CT-ND	.55	.44	.39	3,000	340.00/M
6	4.0	150	50	270	0.5	SOT-23A-5	TC11854.0VCT713CT-ND	.55	.44	.39	3,000	340.00/M
6	5.0	150	50	270	0.5	SOT-23A-5	TC11855.0VCT713CT-ND	.55	.44	.39	3,000	340.00/M
6	2.5	500	80	350	0.5	SOT-223-3	TC1262-2.5VDBCT-ND	1.37	1.23	1.11	4,000	760.00/M
6	2.5	500	80	350	0.5	TO-220-3	TC1262-2.5VAB-ND	2.10	1.38	1.31	—	—
6	3.3	500	80	350	0.5	SOT-223-3	TC1262-3.3VDBCT-ND	1.37	1.23	1.11	4,000	760.00/M
6	3.3	500	80	350	0.5	TO-220-3	TC1262-3.3VAB-ND	2.10	1.38	1.31	—	—
6	5.0	500	80	350	0.5	TO-220-3	TC1262-5.0VAB-ND	2.10	1.38	1.31	—	—
6	2.5	500	80	350	0.5	TO-220-5	TC1263-2.5VAT-ND	2.18	1.42	1.35	—	—
6	2.5	500	80	350	0.5	8-SOIC	TC1263-2.5VOA-ND	1.25	.80	.78	—	—
6	1.8	800	80	450	0.5	DDPAK-3	TC1264-1.8VEBCT-ND	2.27	2.03	1.83	750	937.50
6	1.8	800	80	450	0.5	SOT-223-3	TC1264-1.8VDBCT-ND	1.48	1.33	1.20	4,000	820.00/M
6	1.8	800	80	450	0.5	TO-220-5	TC1265-1.8VAT-ND	2.14	1.56	1.48	—	—
6	1.8	800	80	450	0.5	8-SOIC	TC1265-1.8VOA-ND	1.22	.88	.84	—	—
6	2.5	800	80	450	0.5	TO-220-5	TC1265-2.5VAT-ND	2.14	1.56	1.48	—	—
6	2.5	800	80	450	0.5	8-SOIC	TC1265-2.5VOA-ND	1.22	.88	.84	—	—
6	3.0	800	80	450	0.5	TO-220-5	TC1265-3.0VAT-ND	2.14	1.56	1.48	—	—
6	3.0	800	80	450	0.5	8-SOIC	TC1265-3.0VOA-ND	1.22	.88	.84	—	—
6	3.3	800	80	450	0.5	TO-220-5	TC1265-3.3VAT-ND	2.14	1.56	1.48	—	—
6	3.3	800	80	450	0.5	8-SOIC	TC1265-3.3VOA-ND	1.22	.88	.84	—	—
6	3.3	200	230	200	1.0	8-MSOP	TC1266VUA-ND	1.15	.74	.72	—	—
6	3.3	200	230	200	1.0	8-SOIC	TC1266VOA-ND	1.08	.70	.67	—	—
6	3.3	300	50	240	0.5	8-MSOP	TC1269-3.3VUA-ND	1.25	.80	.78	—	—
6	5.0	300	50	240	0.5	8-MSOP	TC1269-5.0VUA-ND	1.25	.80	.78	—	—
6	—	300	103	104	0.5	8-DFN	TC1301A-AAAVMF-ND	2.05	1.34	1.27	—	—
6	—	300	103	104	0.5	8-MSOP	TC1301A-AAAVUA-ND	1.90	1.24	1.18	—	—
6	—	300	103	104	0.5	8-MSOP	TC1301A-ADAVUA-ND	1.90	1.24	1.18	—	—
6	—	300	103	104	0.5	8-MSOP	TC1301A-DDAVUA-ND	1.90	1.24	1.18	—	—
6	—	300	103	104	0.5	8-DFN	TC1301A-PGAVMF-ND	2.05	1.34	1.27	—	—
6	—	300	114	104	0.5	8-DFN	TC1301B-AIAVMF-ND	2.05	1.34	1.27	—	—
—	—	300	103	104	0.5	8-DFN	TC1302A-IAVMF-ND	2.05	1.34	1.27	—	—
6	0.8	1,000	140	150	1.5	8-SOIC	MCP1726-0802E/SN-ND	2.23	1.49	1.28	—	—
6	1.2	1,000	140	150	1.5	8-DFN	MCP1726-1202E/MF-ND	2.38	1.71	1.37	—	—
6	1.2	1,000	140	150	1.5	8-SOIC	MCP1726-1202E/SN-ND	2.23	1.49	1.28	—	—
6	1.8	1,000	140	150	1.5	8-DFN	MCP1726-1802E/MF-ND	2.38	1.71	1.37	—	—
6	1.8	1,000	140	150	1.5	8-SOIC	MCP1726-1802E/SN-ND	2.23	1.49	1.28	—	—
6	2.5	1,000	140	150	1.5	8-DFN	MCP1726-2502E/MF-ND	2.38	1.71	1.37	—	—
6	2.5	1,000	140	150	1.5	8-SOIC	MCP1726-2502E/SN-ND	2.23	1.49	1.28	—	—
6	3.3	1,000	140	150	1.5	8-DFN	MCP1726-3302E/MF-ND	2.38	1.71	1.37	—	—
6	3.3	1,000	140	150	1.5	8-SOIC	MCP1726-3302E/SN-ND	2.23	1.49	1.28	—	—
6	5.0	1,000	140	150	1.5	8-DFN	MCP1726-5002E/MF-ND	2.38	1.71	1.37	—	—
6	1.8	150	55	140	0.4	SOT-23A-5	TC2185-1.8VCCT-ND	.81	.73	.66	3,000	420.00/M
6	2.8	150	55	140	0.4	SOT-23A-5	TC2185-2.8VCCT-ND	.81	.73	.66	3,000	420.00/M
6	3.0	150	55	140	0.4	SOT-23A-5	TC2185-3.0VCCT-ND	.81	.73	.66	3,000	420.00/M
6	3.3	150	55	140	0.4	SOT-23A-5	TC2185-3.3VCCT-ND	.81	.73	.66	3,000	420.00/M
Evaluation Board for MCP1726							MCP1726EV-ND			30.00/1		
Evaluation Board for TC1016/TC1017							TC1016/17EV-ND ***NEW!***			45.00/1		

*For Tape and Reel Part No., change CT-ND to TR-ND.

PWM Controllers

Input Voltage Range (V)	Quiescent Current (mA)	Package	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Size	Pricing
2.7 ~ 5.5	2.8	8-MSOP	MCP1630V-E/MS-ND	1.60	1.44	.89	—	—
			MCP1630VT-E/MSCT-ND	1.79	1.60	1.44	2,500	890.00/M
Demo Board for MCP1630			MCP1630DM-NMC1-ND			45.00/1		
Demo Board for MCP1630			MCP1630RD-DDBK1-ND			65.00/1		
Demo Board for MCP1630			MCP1630DM-DDBK1-ND ***NEW!***			25.00/1		
Demo Board for MCP1630			MCP1630RD-LIC2-ND ***NEW!***			30.00/1		
Reference Design for MCP1630			MCP1630RD-LIC1-ND			65.00/1		
Evaluation Board for TC115			TC115EV-ND ***NEW!***			15.00/1		

*For Tape and Reel Part No., change CT-ND to TR-ND.

(Continued)

Switching Regulators

Description	Input Voltage Range (V)	Output Voltage (V)	Operating Temperature Range	Output	Control Scheme	Switching Frequency (kHz)	Typical Active Supply (µA)	Output Current (mA)	Packages	Digi-Key Part No.	Price Each 1	25	100
Step-Down DC/DC Controller	2.7 ~ 5.5	0.8 ~ 5.0	-40° ~ 85°C	Adjustable	PWM	1,400	5,000	1,000	8-MSOP	MCP1612-ADJI/MS-ND	2.60	2.34	1.44
										MCP1612-ADJI/MF-ND ***NEW!***	2.75	2.48	1.53
Evaluation Board for MCP1612										MCP1612EV-ND	35.00/1		
Demo Board for MCP165X										MCP1650DM-LED1-ND	55.00/1		
Evaluation Board for MCP165X										MCP1650EV-ND	45.00/1		
Demo Board for MCP1650										MCP1650DM-DDSC1-ND ***NEW!***	20.00/1		
Demo Board for MCP1650										MCP1650DM-LED2-ND ***NEW!***	40.00/1		

Battery Management

Battery Chemistry	Program Memory Bytes	Accuracy	Number of Cells	Interface	Data Set	Programming IO Functions	Packages	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Size	Pricing
Li-Ion, Li-Poly NiHM, NiCd	—	Capacity & run-time Predictions < 1% error	Series cells - Li: 2-4, Ni: 6-12	SMBus 1.1	SBData 1.1	12: 10 GPIO and 2 high voltage for FETs	28-SSOP	PS501-I/SS-ND	8.35	5.63	5.29	—	—
								PS501T-I/SSCT-ND	9.49	8.48	7.63	2,100	4915.50/M
Li-Ion	—	—	1-2	SMBus 12C	—	512 bytes EEPROM	8-TSSOP	PS700-I/ST-ND	3.33	2.00	1.90	—	—

*For Tape and Reel Part No., change CT-ND to TR-ND.

Linear Mode	# of Li-Ion Cells	Vcc Range (V)	Typical Reverse Leakage Current (µA)	Temperature Range	Integrated FET	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Size	Pricing
Yes	1	4.5 ~ 5.5	8	-20°C ~ 85°C	Ext	8-MSOP	MCP73827-4.1VUA-ND	1.28	.79	.73	—	—
Yes	1	4.5 ~ 5.5	1	-20°C ~ 85°C	Ext	8-MSOP	MCP73828-4.2VUA-ND	1.28	.79	.73	—	—
Yes	1	4.5 ~ 5.5	0.24	-40°C ~ 85°C	Int	16-QFN	MCP73853-I/ML-ND	2.35	1.44	1.35	—	—
							MCP73853T-I/MLCT-ND	2.63	2.35	2.12	3,300	1350.00/M
Yes	1	4.5 ~ 5.5	0.24	-40°C ~ 85°C	Int	10-DFN	MCP73855-I/MF-ND	2.05	1.26	1.18	—	—
							MCP73855T-I/MFCT-ND	2.30	2.05	1.85	3,300	1180.00/M
Yes	1	4.5 ~ 12	0.23	-40°C ~ 85°C	Int	16-QFN	MCP73861-I/MLGR-ND	2.53	1.56	1.46	—	—
						16-QFN	MCP73861T-I/MLGCT-ND	2.83	2.53	2.28	3,300	1460.00/M
						16-SOIC	MCP73861-I/SLG-ND	2.45	1.51	1.46	—	—
Yes	2	8.7 ~ 12	0.23	-40°C ~ 85°C	Int	16-QFN	MCP73862-I/MLGR-ND	2.85	1.75	1.65	—	—
						16-QFN	MCP73862T-I/MLGCT-ND	3.19	2.85	2.57	3,300	1650.01/M
Yes	1	4.5 ~ 12	0.5	-40°C ~ 85°C	Int	16-QFN	MCP73863-I/ML-ND ***NEW!***	2.53	1.82	1.46	—	—
						16-SOIC	MCP73863-I/SL-ND ***NEW!***	2.53	1.82	1.46	—	—
Yes	2	8.7 ~ 12	0.5	-40°C ~ 85°C	Int	16-QFN	MCP73864-I/ML-ND ***NEW!***	2.85	2.06	1.65	—	—

Description	Digi-Key Part No.	Price
Evaluation kit for MCP7382X	MCP7382XEV-ND	45.00/1
Evaluation Board for MCP73855	MCP73855EV-ND	25.00/1
Evaluation kit for MCP7386X	MCP7386XEV-ND	30.00/1
PowerCal™ Board	PS042-ND	500.00/1
PowerInfo™ 2 Configuration Interface Board for use with PS70X and PS50X	PS051-ND	150.00/1
PowerCal™ 2 Configuration Interface Board for use with PS70X and PS50X	PS052-ND	375.00/1
Single Chip Battery Manager, 28-SSOP	PS402-I/SS042-ND	3.75/1
PowerSmart® Battery Manager Evaluation Kit for NiMH/LiPoly Chemistries (6-12 cells)	PS5100EV-ND	170.00/1
PS501 Two-Cell Battery Manager Module with LED SOC Display for Lithium Chemistries	PS5162-ND	30.00/1
PowerSmart® Battery Manager Evaluation Kit for Lithium Ion/Polymer Chemistries (2-cell)	PS5162EV-ND	170.00/1
PS501 Three-Cell Battery Manager Module with LED SOC Displays for Lithium Chemistries	PS5163-ND	30.00/1
PowerSmart® Battery Manager Evaluation Kit for Lithium Ion/Polymer Chemistries (3-cell)	PS5163EV-ND	170.00/1
PS501 Four-Cell Battery Manager Module with LED SOC Displays for Lithium Chemistries	PS5164-ND	30.00/1
PowerSmart® Battery Manager Evaluation Kit for Lithium Ion/Polymer Chemistries (4-cell)	PS5164EV-ND	170.00/1
PS700 Battery Monitor Evaluation Board	PS7070-ND	70.00/1
PS700 Battery Monitor Evaluation Board with PowerInfo™ 2	PS7070EV-ND	160.00/1
Battery Monitor for One Cell Lithium Configurations	PS7051-ND	22.00/1
Battery Monitor for Two Cell Lithium Configurations	PS7052-ND	22.00/1
Evaluation Kit for MCP73831	MCP73831EV-ND ***NEW!***	45.00/1

*For Tape and Reel Part No., change CT-ND to TR-ND.

Power MOSFET Drivers

Description	Power	Configuration	Peak Output Current (A)	Output Resistance (Rh/Rl) (Max. 0 @ 25°C)	Max. Supply Voltage (V)	Input/Output Delay (td1, td2) 1(ns)	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Size	Pricing
Low-Side MOSFET Drivers 1.5A Peak Output Current	Dual	Inverting	1.5	15/10	18	50/75	8-SOIC	TC426COA-ND	1.05	.95	.72	—	—
							8-Dip	TC426CPA-ND	1.08	.82	.75	—	—
							8-SOIC	TC426EOA-ND	1.05	.95	.72	—	—
							8-CDip	TC426MJA-ND	8.53	6.20	5.89	—	—
Low-Side MOSFET Drivers 1.5A Peak Output Current	Dual	Non-Inverting	1.5	15/10	18	50/75	8-SOIC	TC427COA-ND	1.05	.95	.72	—	—
							8-Dip	TC427CPA-ND	1.08	.82	.75	—	—
							8-SOIC	TC427EOA-ND	1.05	.95	.72	—	—
							8-Dip	TC427EPA-ND	1.08	.82	.75	—	—
							8-CDip	TC427MJA-ND	8.53	6.20	5.89	—	—
Low-Side MOSFET Drivers 1.5A Peak Output Current	Dual	Non-Inverting	1.5	15/10	18	50/75	8-SOIC	TC428COA-ND	1.05	.95	.72	—	—
							8-Dip	TC428CPA-ND	1.08	.82	.75	—	—
Low-Side Mosfet Drivers, 2.0A to 9.0A Peak Output Current	Single	Inverting	6	2.5/2.5	18	53/60	8-Dip	TC429CPA-ND	1.48	1.33	1.03	—	—
Low-Side Mosfet Drivers, 0.5A to 1.2A Peak Output Current	Single	Inverting	1	11/11	16	30/30	8-Dip	TC1411CPA-ND	.90	.64	.61	—	—
Low-Side Mosfet Drivers, 0.5A to 1.2A Peak Output Current	Single	Inverting	1	11/11	16	30/30	8-Dip	TC1411NCPA-ND	.90	.64	.61	—	—
Low-Side MOSFET Drivers, 2.0A to 9.0A Peak Output Current	Dual	Non-Inverting	3	4/4	16	35/35	8-Dip	TC1413NCPA-ND	1.13	.80	.78	—	—
Low-Side MOSFET Drivers, 0.5A to 1.2A Peak Output Current	Dual	Inverting	1.2	18/18	16	75/75	8-SOIC	TC1426COA-ND	.98	.75	.68	—	—
							8-SOIC	TC1426COA713CT-ND	1.27	1.16	1.06	3,300	680.00/M
							8-Dip	TC1426CPA-ND	.98	.75	.68	—	—
Low-Side MOSFET Drivers, 0.5A to 1.2A Peak Output Current	Dual	Non-Inverting	1.2	18/18	16	75/75	8-SOIC	TC1427COA-ND	.98	.75	.68	—	—
							8-SOIC	TC1427COA713CT-ND	1.27	1.16	1.06	3,300	680.00/M
							8-Dip	TC1427CPA-ND	.98	.75	.68	—	—
Low-Side MOSFET Drivers, 0.5A to 1.2A Peak Output Current	Dual	Non-Inverting	1.2	18/18	16	75/75	8-SOIC	TC1428COA-ND	.98	.75	.68	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Inverting	1.5	10/10	18	15/32	8-SOIC	TC4404COA-ND	2.07	1.50	1.43	—	—
							8-Dip	TC4404CPA-ND	2.07	1.50	1.43	—	—

*For Tape and Reel Part No., change CT-ND to TR-ND.

(Continued)

Power MOSFET Drivers *(Cont.)*

Description	Power	Configuration	Peak Output Current (A)	Output Resistance (Rh/Rl) (Max. 0 @ 25°C)	Max. Supply Voltage (V)	Input/Output Delay (td1, td2) 1(ns)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	25	100	Size	Pricing
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Non-Inverting	1.5	10/10	18	15/32	8-SOIC	TC4405COA-ND	2.07	1.50	1.43	—	—
							8-Dip	TC4405CPA-ND	2.07	1.50	1.43	—	—
Low-Side MOSFET Drivers, 2.0A to 9.0A Peak Output Current	Single	Non-Inverting	6	2.8/2.5	18	55/55	8-SOIC	TC4420COA-ND	1.33	1.20	.91	—	—
							8-SOIC	TC4420COA713CT-ND	1.72	1.57	1.44	3,300	910.00/M
							8-Dip	TC4420CPA-ND	1.35	1.03	.93	—	—
							8-Dip	TC4420EPA-ND	1.38	1.05	.95	—	—
							8-CDip	TC4420MJA-ND	11.97	8.70	8.27	—	—
Low-Side MOSFET Drivers, 2.0A to 9.0A Peak Output Current	Single	Inverting	9	1.4 (typ)/1.7	18	30/33	TO-220-5	TC4421AVAT-ND	3.48	2.28	2.17	—	—
							8-DFN	TC4421AVMF-ND	3.10	2.02	1.92	—	—
							8-SOIC	TC4421AVOA-ND	2.78	1.82	1.73	—	—
							8-Dip	TC4421AVPA-ND	2.78	1.82	1.73	—	—
							TO-220-5	TC4421CAT-ND	2.72	1.98	1.88	—	—
							8-Dip	TC4421CPA-ND	2.43	1.66	1.50	—	—
Low-Side MOSFET Drivers, 2.0A to 9.0A Peak Output Current	Single	Non-Inverting	9	1.4 (typ)/1.7	18	30/33	TO-220-5	TC4422AVAT-ND	3.48	2.28	2.17	—	—
							8-DFN	TC4422AVMF-ND	3.10	2.02	1.92	—	—
							8-SOIC	TC4422AVOA-ND	2.78	1.82	1.73	—	—
							8-DIP	TC4422AVPA-ND	2.78	1.82	1.73	—	—
							8-Dip	TC4422CPA-ND	2.43	1.66	1.50	—	—
							8-Dip	TC4422EPA-ND	2.55	1.66	1.58	—	—
Low-Side MOSFET Drivers, 2.0A to 9.0A Peak Output Current	Dual	Inverting	3	5/5	18	33/38	16-SOIC	TC4423COE-ND	2.20	1.44	1.37	—	—
							8-Dip	TC4423CPA-ND	2.00	1.37	1.24	—	—
Low-Side MOSFET Drivers, 2.0A to 9.0A Peak Output Current	Dual	Non-Inverting	3	5/5	18	33/38	8-Dip	TC4424CPA-ND	2.00	1.37	1.24	—	—
							(wide)16-SOIC	TC4424COE-ND	1.98	1.44	1.37	—	—
Low-Side MOSFET Drivers, 2.0A to 9.0A Peak Output Current	Dual	Non-Inverting	3	5/5	18	33/38	8-Dip	TC4425CPA-ND	2.00	1.30	1.24	—	—
Low-Side MOSFET Drivers 1.5A Peak Output Current	Dual	Inverting	1.5	10/10	18	20/40	8-SOIC	TC4426COA-ND	1.03	.93	.70	—	—
							8-Dip	TC4426CPA-ND	1.08	.82	.74	—	—
							8-SOIC	TC4426EOA-ND	1.05	.95	.72	—	—
							8-Dip	TC4426EPA-ND	1.08	.82	.74	—	—
Low-Side MOSFET Drivers 1.5A Peak Output Current	Dual	Non-Inverting	1.5	9/9	18	30/30	8-SOIC	TC4427ACOA-ND	1.05	.95	.72	—	—
							8-Dip	TC4427ACPA-ND	1.08	.82	.74	—	—
							8-SOIC	TC4427AEOA-ND	1.05	.95	.72	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Non-Inverting	1.5	10/10	18	20/40	8-SOIC	TC4427COA-ND	1.03	.93	.70	—	—
							8-SOIC	TC4427COA713CT-ND	1.33	1.21	1.11	3,300	700.00/M
							8-Dip	TC4427CPA-ND	1.05	.80	.72	—	—
							8-Dip	TC4427EPA-ND	1.08	.82	.75	—	—
							8-SOIC	TC4427EOA-ND	1.05	.95	.72	—	—
Low-Side MOSFET Drivers, 1.5A Peak Output Current	Dual	Non-Inverting	1.5	10/10	18	20/40	8-SOIC	TC4428COA-ND	1.03	.93	.70	—	—
							8-Dip	TC4428CPA-ND	1.05	.80	.72	—	—
							8-SOIC	TC4428EOA-ND	1.05	.95	.72	—	—
Low-Side MOSFET Drivers, 2.0A to 9.0A Peak Output Current	Single	Inverting	6	2.8/2.5	18	55/55	8-SOIC	TC4429COA-ND	1.33	1.20	.91	—	—
							8-Dip	TC4429CPA-ND	1.22	1.03	.93	—	—
High-Side/Low-Side Mosfet Drivers	Single	Non-Inverting	1.5	10/10	30	62/78	8-SOIC	TC4432COA-ND	2.07	1.50	1.43	—	—
							8-Dip	TC4432CPA-ND	2.07	1.50	1.43	—	—
Low-Side MOSFET Drivers, 0.5A to 1.2A Peak Output Current	Quad	Inverting	1.2	15/15	18	40/40	16-SOIC	TC4467COE-ND	3.68	2.40	2.28	—	—
							14-Dip	TC4467CPD-ND	2.70	1.85	1.67	—	—
Low-Side MOSFET Drivers, 0.5A to 1.2A Peak Output Current	Quad	Non-Inverting	1.2	15/15	18	40/40	14-Dip	TC4468CPD-ND	2.43	1.85	1.67	—	—
							16-SOIC	TC4468COE-ND	2.23	1.89	1.71	—	—
Low-Side MOSFET Drivers, 0.5A to 1.2A Peak Output Current	Quad	Non-Inverting	1.2	15/15	18	40/40	14-Dip	TC4469CPD-ND	2.43	1.85	1.67	—	—
							(wide)16-SOIC	TC4469COE-ND	2.23	1.89	1.71	—	—
							(wide)16-SOIC	TC4469COE713CT-ND	3.22	2.93	2.68	1,000	1710.00

*For Tape and Reel Part No., change CT-ND to TR-ND.

Mixed Signal

Successive Approximation Register (SAR) A/D Converters

Resolution (bits)	Max Sample Rate (ksamples/sec.)	# of Input Channels	Interface	Input Voltage Range (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
							1	25	100	Size	Pricing
10	200	1	SPI™	2.7-5.5	8-MSOP	MCP3001-I/MS-ND	2.18	1.65	1.26	—	—
					8-DIP	MCP3001-I/P-ND	2.18	1.65	1.26	—	—
					8-SOIC	MCP3001-I/SN-ND	2.18	1.65	1.26	—	—
					8-TSSOP	MCP3001-I/ST-ND	2.18	1.65	1.26	—	—
					8-SOIC	MCP3001T-I/SNCT-ND	2.44	2.18	1.96	3,300	1260.01/M
10	200	2	SPI™	2.7-5.5	8-MSOP	MCP3002-I/MS-ND	2.35	1.79	1.35	—	—
					8-DIP	MCP3002-I/P-ND	2.35	1.79	1.35	—	—
					8-SOIC	MCP3002-I/SN-ND	2.35	1.79	1.35	—	—
					8-TSSOP	MCP3002-I/ST-ND	2.35	1.79	1.35	—	—
10	200	4	SPI™	2.7-5.5	8-MSOP	MCP3004-I/SL-ND	2.75	2.08	1.58	—	—
					14-TSSOP	MCP3004-I/ST-ND	2.75	2.08	1.58	—	—
10	200	8	SPI™	2.7-5.5	16-DIP	MCP3008-I/P-ND	2.90	2.21	1.66	—	—
					16-SOIC	MCP3008-I/SL-ND	2.90	2.21	1.66	—	—
12	100	1	SPI™	2.7-5.5	8-DIP	MCP3201-CI/P-ND	3.00	2.28	1.73	—	—
					8-SOIC	MCP3201-CI/SN-ND	3.00	2.28	1.73	—	—
					8-DIP	MCP3201-BI/P-ND	3.48	2.64	2.01	—	—
					8-SOIC	MCP3201-BI/SN-ND	3.48	2.64	2.01	—	—
					8-SOIC	MCP3201T-CI/SNCT-ND	3.36	3.00	2.70	3,300	1730.01/M
					8-TSSOP	MCP3201-CI/ST-ND	3.00	2.28	1.73	—	—
12	100	2	SPI™	2.7-5.5	8-SOIC	MCP3202-BI/SN-ND	3.80	2.89	2.19	—	—
					8-DIP	MCP3202-BI/P-ND	3.80	2.89	2.19	—	—
					8-MSOP	MCP3202-CI/MS-ND	3.33	2.53	1.92	—	—
					8-TSSOP	MCP3202-CI/ST-ND	3.33	2.53	1.92	—	—
					8-DIP	MCP3202-CI/P-ND	3.33	2.53	1.92	—	—
					8-SOIC	MCP3202-CI/SN-ND	3.33	2.53	1.92	—	—
12	100	4	SPI™	2.7-5.5	14-DIP	MCP3204-BI/P-ND	5.20	3.94	2.99	—	—
					14-SOIC	MCP3204-BI/SL-ND	5.20	3.94	2.99	—	—
					14-DIP	MCP3204-CI/P-ND	4.18	3.17	2.40	—	—
					14-SOIC	MCP3204-CI/SL-ND	4.18	3.17	2.40	—	—
					14-SOIC	MCP3204T-CI/SLCT-ND	4.68	4.18	3.76	2,600	2400.01/M
					14-TSSOP	MCP3204-CI/ST-ND	4.18	3.17	2.40	—	—
12	100	8	SPI™	2.7-5.5	16-DIP	MCP3208-BI/P-ND	5.73	4.34	3.30	—	—
					16-DIP	MCP3208-CI/P-ND	4.58	3.46	2.64	—	—
					16-SOIC	MCP3208-CI/SL-ND	4.58	3.46	2.64	—	—
12	22	1	I^{2}C™ COMPATIBLE/SPI™	2.7-5.5	SOT-23-5	MCP3221A5T-I/OTCT-ND	2.33	1.86	1.63	3,000	1330.01/M
13	100	1	SPI™	2.7-5.5	8-MSOP	MCP3301-CI/MS-ND	3.10	2.79	1.72	—	—
					8-DIP	MCP3301-CI/P-ND	3.00	2.28	1.72	—	—

*For Tape and Reel Part No., change CT-ND to TR-ND.

(Continued)

MICROCHIP

Mixed Signal *(Cont.)*

Successive Approximation Register (SAR) A/D Converters *(Cont.)*

Resolution (bits)	Max Sample Rate (ksamples/sec.)	# of Input Channels	Interface	Input Voltage Range (V)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
							1	25	100	Size	Pricing
13	100	2	SPI™	2.7-5.5	14-DIP	MCP3302-BI/P-ND	5.15	3.91	2.97	—	—
					14-SOIC	MCP3302-BI/SL-ND	5.15	3.91	2.97	—	—
					14-TSSOP	MCP3302-BI/ST-ND	5.35	4.82	2.97	—	—
					14-DIP	MCP3302-CI/P-ND	4.13	3.14	2.37	—	—
					14-SOIC	MCP3302-CI/SL-ND	4.13	3.14	2.37	—	—
					14-TSSOP	MCP3302-CI/ST-ND	4.28	3.85	2.37	—	—
13	100	4	SPI™	2.7-5.5	16-DIP	MCP3304-CI/P-ND	4.55	3.46	2.62	—	—
					16-SOIC	MCP3304-CI/SL-ND	4.55	3.46	2.62	—	—
MCP3201/02 Daughter Board						DV3201A-ND	89.99/1				
MCP3204/08 Daughter Board						DV3204A-ND	89.99/1				
Analog Evaluation Driver Board						DVMCPA-ND	169.99/1				
Demo Board for PICtail™ MCP3221						MCP3221DM-PCTL-ND	25.00/1				

*For Tape and Reel Part No., change CT-ND to TR-ND.

NEW! Delta - Sigma A/D Converters

Resolution (bits)	Max. Sample Rate (samples/sec)	Input Type	Interface	Supply Voltage Range (V)	Typical Supply Current (µA)	Typical INL (%FSR)	Package	Digi-Key Part No.	1	25	100
22	14	Differential	SPI	2.7 ~ 5.5	120	0.0002	8-MSOP	MCP3551-E/MS-ND	5.50	4.95	3.04
							8-SOIC	MCP3551-E/SN-ND	5.45	4.91	3.01
20	60	Differential	SPI	2.7 ~ 5.5	140	0.0002	8-MSOP	MCP3553-E/MS-ND	5.50	4.95	3.04
							8-SOIC	MCP3553-E/SN-ND	5.45	4.91	3.01
Demo Board for MCP3551								MCP3551DM-PCTL-ND	40.00/1		

Dual Slope A/D Converters

Supply Voltage Range (V)	Input Voltage Range (V)	Resolution	Sampling Rate (Conv/sec)	Input Channels	Interface	Differential Input Range	Programmable Resolution/ Conversion Time	Charge Pump (-V) Output Pin	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
											1	25	100	Size	Pricing
±4.5 ~ ±7.5	Vss +1.5V to Vdd -1.5V	Up to 17 bits	4 ~ 10	1	3-Wire	Yes	Yes	No	16-SOIC	TC500ACOE-ND	5.20	3.57	3.23	—	—
									16-SOIC	TC500ACOE713CT-ND	4.68	4.06	3.64	1,000	3229.99
									16-Dip	TC500ACPE-ND	4.60	2.90	2.85	—	—
±4.5 ~ ±7.5	Vss +1.5V to Vdd -1.5V	Up to 16 bits	4 ~ 10	1	3-Wire	Yes	Yes	No	16-SOIC	TC500COE-ND	4.60	3.00	2.85	—	—
									16-Dip	TC500CPE-ND	3.38	2.20	2.09	—	—
±4.5 ~ ±5.5	—	—	—	—	Serial Port	No	No	No	14-Dip	TC520ACPD-ND	4.97	3.61	3.43	—	—
±4.5 ~ ±5.5	Vss +1.5V to Vdd -1.5V	12 bits plus sign bit	2 ~ 10	1	Serial Port	Yes	No	No	40-Dip	TC7109ACPL-ND	7.48	5.13	4.64	—	—
									44-PQFP	TC7109ACKW-ND	9.52	6.92	6.57	—	—
±4.5 ~ ±5.5	Vss +1.5V to Vdd -1.5V	12 bits plus sign bit	2 ~ 10	1	Serial Port	Yes	No	No	40-Dip	TC7109CPL-ND	6.33	4.14	3.93	—	—

*For Tape and Reel Part No., change CT-ND to TR-ND.

Display A/D Converters

Display Type	Supply Voltage (V)	Resolution (Digits)	Resolution (Counts)	Power (mW)	For DMM, DPM, data loggers	Hold Function	Package	Digi-Key Part No.	Price Each		
									1	25	100
LCD	9	3.75	4,000	10	No	No	40-Dip	TC820CPL-ND	9.68	6.33	6.01
LCD	9	3.5	2,000	10	No	Yes	40-Dip	TC7106ACPL-ND	4.50	3.09	2.79
LCD	9	3.5	2,000	10	Yes	No	40-Dip	TC7106CPL-ND	3.93	2.69	2.43
LED	5	3.5	2,000	10	No	Yes	40-Dip	TC7107ACPL-ND	4.25	2.92	2.64
LED	5	3.5	2,000	10	No	Yes	44-PQFP	TC7107CKW-ND	3.31	2.41	2.29
							40-Dip	TC7107CPL-ND	3.68	2.53	2.29
LCD	9	3.5	2,000	10	No	Yes	40-Dip	TC7116ACPL-ND	5.73	3.93	3.56
LCD	9	3.5	2,000	10	No	Yes	40-Dip	TC7116CPL-ND	4.14	3.01	2.86
LED	5	3	2,000	10	No	Yes	40-Dip	TC7117ACPL-ND	5.98	4.11	3.71
LED	5	3	2,000	10	No	Yes	44-PQFP	TC7117CKW-ND	3.74	2.71	2.57
							40-Dip	TC7117CPL-ND	4.15	2.85	2.57
LCD	9	3.5	2,000	0.5	No	No	40-Dip	TC7126CPL-ND	5.18	3.76	3.57
LCD	9	4.5	20,000	4.5	No	No	40-Dip	TC7129CPL-ND	11.00	8.00	7.60

Binary and BCD A/D Converters

Description	Supply Voltage (V)	Input Voltage Range (V)	Resolution (Digits)	Resolution (Counts)	Max. Power (mW)	Interface	For DMM, DPM, Data Loggers	Package	Digi-Key Part No.	Price Each		
										1	25	100
BCD A/D	5	Vss +1.0 to Vdd -0.5	4	20,000	30	MUXed BCD	No	44-PQFP	TC835CKW-ND	10.55	7.67	7.29
BCD A/D	5	Vss +1.0 to Vdd -1.0	4	20,000	30	MUXed BCD	Yes	28-Dip	TC7135CPI-ND	6.70	4.59	4.16
BCD A/D	±4.5 ~ ±8	±199.9mV to 1.999	3	2,000	20	MUXed BCD	Yes	24-Dip	TC14433AEPG-ND	5.18	3.76	3.57
BCD A/D	±4.5 ~ ±8	±199.9mV to 1.999	3	2,000	20	MUXed BCD	Yes	24-Dip	TC14433EPG-ND	5.18	3.76	3.57

D/A Converters

Resolution (Bits)	DACs per Package	Interface	Vref	Output Setting Time (s)	DNL (LSB)	Typical Standby Current	Typical Operating Current	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
										1	25	100	Size	Pricing
12	1	2 SPI™	—	4	0.2	0.3	330	8-MSOP	MCP4821-E/MS-ND	3.48	2.78	1.74	—	—
								8-DIP	MCP4821-E/P-ND	3.48	2.78	1.74	—	—
								8-SOIC	MCP4821-E/SN-ND	3.65	2.92	1.83	—	—
12	2	2 SPI™	—	4	0.2	0.3	415	8-MSOP	MCP4822-E/MS-ND	4.55	3.64	2.27	—	—
								8-DIP	MCP4822-E/P-ND	4.55	3.64	2.27	—	—
								8-SOIC	MCP4822-E/SN-ND	4.55	3.64	2.27	—	—
12	1	SPI™	Ext	4.5	0.25	0.5	125	8-MSOP	MCP4921-E/MS-ND	2.60	1.65	1.50	—	—
								8-MSOP	MCP4921T-E/MSCT-ND	2.91	2.60	2.34	2,500	1500.01/M
								8-DIP	MCP4921-E/P-ND	2.60	1.65	1.50	—	—
								8-SOIC	MCP4921-E/SN-ND	2.60	1.65	1.50	—	—
								8-SOIC	MCP4921T-E/SNCT-ND	2.91	2.60	2.34	3,300	1500.01/M
12	2	SPI™	Ext	4.5	0.25	0.5	250	14-DIP	MCP4922-E/P-ND	3.45	2.18	1.99	—	—
								14-SOIC	MCP4922-E/SL-ND	3.45	2.18	1.99	—	—
								14-SOIC	MCP4922T-E/SLCT-ND	3.86	3.45	3.11	2,600	1990.00/M
								14-TSSOP	MCP4922-E/ST-ND	3.45	2.18	1.99	—	—
								14-TSSOP	MCP4922T-E/STCT-ND	3.86	3.45	3.11	2,500	1990.00/M

*For Tape and Reel Part No., change CT-ND to TR-ND.

(Continued)

Digital Potentiometers

Number of Taps	Number per Package	Interface	Resistance (ohms)	Max. INL ± (LSB)	Max. DNL ± (LSB)	Temperature Range	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	25	100	Size	Pricing
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	8-DFN	MCP4011T-103E/MCCT-ND ***NEW!***	.76	.68	.61	3,300	390.00/M
			10,000				8-MSOP	MCP4011-103E/MS-ND ***NEW!***	.68	.61	.39	—	—
			10,000				8-SOIC	MCP4011-103E/SN-ND ***NEW!***	.68	.61	.39	—	—
			2,100				8-DFN	MCP4011T-202E/MCCT-ND ***NEW!***	.76	.68	.61	3,300	390.00/M
			2,100				8-MSOP	MCP4011-202E/MS-ND ***NEW!***	.68	.61	.39	—	—
			2,100				8-SOIC	MCP4011-202E/SN-ND ***NEW!***	.68	.61	.39	—	—
			5,000				8-DFN	MCP4011T-502E/MCCT-ND ***NEW!***	.76	.68	.61	3,300	390.00/M
			5,000				8-MSOP	MCP4011-502E/MS-ND ***NEW!***	.68	.61	.39	—	—
			5,000				8-SOIC	MCP4011-502E/SN-ND ***NEW!***	.68	.61	.39	—	—
			50,000				8-DFN	MCP4011T-503E/MCCT-ND ***NEW!***	.76	.68	.61	3,300	390.00/M
			50,000				8-MSOP	MCP4011-503E/MS-ND ***NEW!***	.68	.61	.39	—	—
			50,000				8-SOIC	MCP4011-503E/SN-ND ***NEW!***	.68	.61	.39	—	—
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT23-6	MCP4012T-103E/CHCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
			2,100				SOT23-6	MCP4012T-202E/CHCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
			5,000				SOT23-6	MCP4012T-502E/CHCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
			50,000				SOT23-6	MCP4012T-503E/CHCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT23-6	MCP4013T-103E/CHCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
			2,100				SOT23-6	MCP4013T-202E/CHCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
			5,000				SOT23-6	MCP4013T-502E/CHCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
			50,000				SOT23-6	MCP4013T-503E/CHCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT23-5	MCP4014T-103E/OTCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
			2,100				SOT23-5	MCP4014T-202E/OTCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
			5,000				SOT23-5	MCP4014T-502E/OTCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
			50,000				SOT23-5	MCP4014T-503E/OTCT-ND ***NEW!***	.76	.68	.61	3,000	390.00/M
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	8-DFN	MCP4021T-103E/MCCT-ND	1.23	1.10	.99	3,300	630.00/M
			10,000				8-MSOP	MCP4021-103E/MS-ND	1.05	.68	.61	—	—
			10,000				8-SOIC	MCP4021-103E/SN-ND	1.03	.67	.59	—	—
			2,100				8-DFN	MCP4021T-202E/MCCT-ND	1.23	1.10	.99	3,300	630.00/M
			2,100				8-MSOP	MCP4021-202E/MS-ND	1.05	.68	.61	—	—
			2,100				8-SOIC	MCP4021-202E/SN-ND	1.03	.67	.59	—	—
			5,000				8-DFN	MCP4021T-502E/MCCT-ND	1.23	1.10	.99	3,300	630.00/M
			5,000				8-MSOP	MCP4021-502E/MS-ND	1.05	.68	.61	—	—
			5,000				8-SOIC	MCP4021-502E/SN-ND	1.03	.67	.59	—	—
			50,000				8-DFN	MCP4021T-503E/MCCT-ND	1.23	1.10	.99	3,300	630.00/M
			50,000				8-MSOP	MCP4021-503E/MS-ND	1.05	.68	.61	—	—
			50,000				8-SOIC	MCP4021-503E/SN-ND	1.03	.67	.59	—	—
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT-23-6	MCP4022T-103E/CHCT-ND	1.18	1.05	.95	3,000	600.00/M
			2,100				SOT-23-6	MCP4022T-202E/CHCT-ND	1.18	1.05	.95	3,000	600.00/M
			5,000				SOT-23-6	MCP4022T-502E/CHCT-ND	1.18	1.05	.95	3,000	600.00/M
			50,000				SOT-23-6	MCP4022T-503E/CHCT-ND	1.18	1.05	.95	3,000	600.00/M
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT-23-6	MCP4023T-103E/CHCT-ND	1.18	1.05	.95	3,000	600.00/M
			2,100				SOT-23-6	MCP4023T-202E/CHCT-ND	1.18	1.05	.95	3,000	600.00/M
			5,000				SOT-23-6	MCP4023T-502E/CHCT-ND	1.18	1.05	.95	3,000	600.00/M
			50,000				SOT-23-6	MCP4023T-503E/CHCT-ND	1.18	1.05	.95	3,000	600.00/M
64	1	Up/Down Protocol	10,000	0.5	0.5	-40°C ~ 125°C	SOT-23-5	MCP4024T-103E/OTCT-ND	1.18	1.05	.95	3,000	600.00/M
			2,100				SOT-23-5	MCP4024T-202E/OTCT-ND	1.18	1.05	.95	3,000	600.00/M
			50,000				SOT-23-5	MCP4024T-503E/OTCT-ND	1.18	1.05	.95	3,000	600.00/M
			5,000				SOT-23-5	MCP4024T-502E/OTCT-ND	1.18	1.05	.95	3,000	600.00/M
256	1	SPI™	10,000	1	1	-40°C ~ 85°C	8-Dip	MCP41010-I/P-ND	1.78	1.35	1.02	—	—
							8-SOIC	MCP41010-I/SN-ND	1.78	1.35	1.02	—	—
256	1	SPI™	50,000	1	1	-40°C ~ 85°C	8-Dip	MCP41050-I/P-ND	1.78	1.35	1.05	—	—
							8-SOIC	MCP41050-I/SN-ND	1.78	1.35	1.02	—	—
256	1	SPI™	100,000	1	1	-40°C ~ 85°C	8-Dip	MCP41100-I/P-ND	1.78	1.35	1.02	—	—
							8-SOIC	MCP41100-I/SN-ND	1.78	1.35	1.02	—	—
256	2	SPI™	10,000	1	1	-40°C ~ 85°C	14-Dip	MCP42010-I/P-ND	2.65	2.01	1.52	—	—
							14-SOIC	MCP42010-I/SL-ND	2.65	2.01	1.52	—	—
							14-TSSOP	MCP42010-I/ST-ND	2.65	2.01	1.52	—	—
256	2	SPI™	50,000	1	1	-40°C ~ 85°C	14-Dip	MCP42050-I/P-ND	2.65	2.01	1.52	—	—
							14-SOIC	MCP42050-I/SL-ND	2.65	2.01	1.52	—	—
							14-TSSOP	MCP42050-I/ST-ND	2.65	2.01	1.52	—	—
256	2	SPI™	100,000	1	1	-40°C ~ 85°C	14-Dip	MCP42100-I/P-ND	2.65	2.01	1.52	—	—
							14-SOIC	MCP42100-I/SL-ND	2.65	2.01	1.52	—	—
							14-TSSOP	MCP42100-I/ST-ND	2.65	2.01	1.52	—	—
Evaluation Board for MCP42XXX								DV42XXX-ND		89.99/1			
Evaluation Board for MCP402X								MCP402XEV-ND		15.00/1			
Evaluation Board for MCP4022, MCP4023 and MCP4024								VSUPEV2-ND		10.00/1			

*For Tape and Reel Part No., change CT-ND to TR-ND.

Frequency-to-Voltage / Voltage-to-Frequency

Frequency Range (kHz)	Full Scale (ppm FS/°C)	Non-linearity (%FS)	Package	Digi-Key Part No.	Price Each		
					1	25	100
100	40	±0.02	14-SOIC	TC9400COD-ND	6.41	4.66	4.43
			14-Dip	TC9400CPD-ND	6.33	4.34	3.93
			14-CDIP	TC9400EJD-ND	11.50	8.35	7.93
100	100	±0.25	14-Dip	TC9402CPD-ND	3.00	2.05	1.86

(Continued)

Mixed Signal *(Cont.)*

Energy Measurement

Measurement Error	Dynamic Range	Gain Selection	Voltage Reference Drift ppm typ.	MechCounter Drive (mA)	PSSR % typ.	AIdd Max. (mA)	DIdd Max. (mA)	Supply Voltage Min. (V)	Supply Voltage Max. (V)	Temperature Range Min.	Temperature Range Max.	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
0.1%	500:1	1:16	15	15	0.01%	3	2	4.5	5.5	-45°C	85°C	24-SSOP	MCP3905-I/SS-ND	3.38	2.70	1.94
0.1%	1000:1	1:32	15	15	0.01%	3	2	4.5	5.5	-45°C	85°C	24-SSOP	MCP3906-I/SS-ND ***NEW!***	3.95	2.85	2.27
Demo Board for MCP3905													MCP3905EV-ND ***NEW!***		75.00/1	
Reference Design for MCP3905													MCP3905RD-PM1-ND ***NEW!***		45.00/1	

NEW! Delta - Sigma A/D Converters

Resolution (bits)	Max. Sample Rate (sample/sec.)	Input Type	Interface	Supply Voltage Range (V)	Typical Supply Current (µA)	Typical INL (ppm)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
22	13	1 Differential	SPI	2.7 ~ 5.5	120	2	8-MSOP	MCP3550-50E/MS-ND	5.50	4.95	3.04
							8-SOIC	MCP3550-50E/SN-ND	5.45	4.91	3.01
22	15	1 Differential	SPI	2.7 ~ 5.5	140	0.0002	8-MSOP	MCP3550-60E/MS-ND	5.50	4.95	3.04
							8-SOIC	MCP3550-60E/SN-ND	5.45	4.91	3.01

Linear

Op Amps

# per Package	GBWP	Iq Typical (µA)	Iq Max. (mA)	Vos Max. (mV)	Operating Voltage Range (V)	Temp. Range (°C)	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Tape and Reel* Size	Tape and Reel* Pricing
1	2.8 MHz	230	.325	2	2.7 - 5.5	-40°C ~ 85°C	8-DIP	MCP601-I/P-ND	.65	.41	.38	—	—
							8-SOIC	MCP601-I/SN-ND	.65	.41	.38	—	—
							SOT-23-5	MCP601RT-I/OTCT-ND	.67	.60	.54	3,000	340.00/M
1	2.8 MHz	230	.325	2	2.7 - 5.5	-40°C ~ 85°C	8-SOT-23-5	MCP601T-I/OTCT-ND	.54	.47	.42	3,000	340.00/M
1	2.8 MHz	230	.325	2	2.7 - 5.5	-40°C ~ 85°C	8-DIP	MCP602-I/P-ND	.85	.54	.49	—	—
							8-SOIC	MCP602-I/SN-ND	.85	.54	.49	—	—
							8-TSSOP	MCP602-I/ST-ND	.90	.81	.49	—	—
1	2.8 MHz	230	.325	2	2.7 - 5.5	-40°C ~ 85°C	8-DIP	MCP603-I/P-ND	.70	.44	.40	—	—
							8-SOIC	MCP603-I/SN-ND	.70	.44	.40	—	—
4	2.8 MHz	230	.325	2	2.7 - 5.5	-40°C ~ 85°C	14-DIP	MCP604-I/P-ND	1.58	1.00	.91	—	—
							14-SOIC	MCP604-I/SL-ND	1.58	1.00	.91	—	—
1	155 MHz	18.70	.025	.25	2.5 - 5.5	-40°C ~ 85°C	8-DIP	MCP606-I/P-ND	1.00	.63	.57	—	—
							8-SOIC	MCP606-I/SN-ND	1.00	.63	.57	—	—
2	155 MHz	18.70	.025	.25	2.5 - 5.5	-40°C ~ 85°C	8-DIP	MCP607-I/P-ND	1.33	.84	.76	—	—
							8-SOIC	MCP607-I/SN-ND	1.33	.84	.76	—	—
1	155 MHz	18.70	.025	.25	2.5 - 5.5	-40°C ~ 85°C	8-DIP	MCP608-I/P-ND	1.05	.66	.61	—	—
							8-SOIC	MCP608-I/SN-ND	1.05	.66	.61	—	—
4	155 MHz	18.70	.025	.25	2.5 - 5.5	-40°C ~ 85°C	14-DIP	MCP609-I/P-ND	1.98	1.25	1.14	—	—
							14-SOIC	MCP609-I/SL-ND	1.98	1.25	1.14	—	—
40	190kHz	19	.025	0.15	2.3 - 5.5	-40°C ~ 85°C	14-DIP	MCP619-I/P-ND	2.08	1.31	1.20	—	—
4							14-SOIC	MCP619T-I/SLCT-ND	2.32	2.08	1.87	2,600	1200.00/M
4							14-SOIC	MCP619-I/SL-ND	2.08	1.31	1.20	—	—
1	1,000kHz	140	.170	4.5	1.8 - 5.5	-40°C ~ 125°C	SC-70-5	MCP6001T-I/LTCT-ND	.45	.40	.36	3,000	230.00/M
							SOT-23-5	MCP6001RT-I/OTCT-ND	.42	.38	.34	3,000	210.00/M
							SOT-23-5	MCP6001T-I/OTCT-ND	.42	.38	.34	—	—
							SOT-23-5	MCP6001UT-I/OTCT-ND	.42	.38	.34	3,000	210.00/M
2	1,000kHz	140	.170	4.5	1.8 - 5.5	-25°C ~ 85°C	8-MSOP	MCP6002T-I/MSCT-ND	.56	.50	.45	2,500	280.00/M
							8-DIP	MCP6002-I/P-ND	.50	.32	.28	—	—
							8-SOIC	MCP6002-I/SN-ND	.50	.32	.28	—	—
4	1,000kHz	140	.170	7	1.8 - 5.5	-40°C ~ 125°C	14-DIP	MCP6004-I/P-ND	.65	.41	.38	—	—
							14-SOIC	MCP6004-I/SL-ND	.65	.41	.38	—	—
							14-TSSOP	MCP6004-I/ST-ND	.68	.61	.38	—	—
1	1,000kHz	1,000	1.35	0.5	2.5 - 5.5	-40°C ~ 125°C	8-DIP	MCP6021-I/P-ND	1.38	.87	.80	—	—
							8-SOIC	MCP6021-I/SN-ND	1.38	.87	.80	—	—
							8-TSSOP	MCP6021-I/ST-ND	1.43	1.29	.80	—	—
2	10 MHz	1,000	1.35	0.5	2.5 - 5.5	-40°C ~ 125°C	8-DIP	MCP6022-I/P-ND	1.78	1.12	1.02	—	—
							8-SOIC	MCP6022-I/SN-ND	1.78	1.12	1.02	—	—
							8-TSSOP	MCP6022-I/ST-ND	1.85	1.67	1.02	—	—
1	10 MHz	1,000	1.35	0.5	2.5 - 5.5	-40°C ~ 125°C	8-DIP	MCP6023-I/P-ND	1.45	.91	.83	—	—
							8-SOIC	MCP6023-I/SN-ND	1.45	.95	.83	—	—
							8-TSSOP	MCP6023-I/ST-ND	1.50	1.35	.83	—	—
4	10 MHz	10,000	1.35	0.5	2.5 - 5.5	-40°C ~ 125°C	14-DIP	MCP6024-I/P-ND	2.60	1.65	1.50	—	—
							14-SOIC	MCP6024-I/SL-ND	2.60	1.65	1.50	—	—
							14-TSSOP	MCP6024-I/ST-ND	2.70	2.43	1.50	—	—
1	14 kHz	0.6	.001	3	1.4 - 5.5	-40°C ~ 85°C	8-MSOP	MCP6041-I/MS-ND	.85	.77	.47	—	—
							8-DIP	MCP6041-I/P-ND	.83	.53	.47	—	—
							8-SOIC	MCP6041-I/SN-ND	.83	.53	.47	—	—
							SOT-23-5	MCP6041T-I/OTCT-ND	.75	.60	.53	3,000	440.00/M
							8-SOIC	MCP6041T-I/SNCT-ND	.83	.66	.58	3,300	470.00/M
2	14 kHz	0.6	.001	3	1.4 - 5.5	-40°C ~ 85°C	8-MSOP	MCP6042-I/MS-ND	1.13	1.02	.63	—	—
							8-DIP	MCP6042-I/P-ND	1.10	.69	.63	—	—
							8-SOIC	MCP6042-I/SN-ND	1.10	.69	.63	—	—
1	14 kHz	0.6	.001	3	1.4 - 5.5	-40°C ~ 85°C	8-MSOP	MCP6043-I/MS-ND	.90	.81	.49	—	—
							8-DIP	MCP6043-I/P-ND	.85	.54	.49	—	—
							8-SOIC	MCP6043-I/SN-ND	.85	.54	.49	—	—

*For Tape and Reel Part No., change CT-ND to TR-ND.

(Continued)

Linear *(Cont.)*

Op Amps *(Cont.)*

# per Package	GBWP	Iq Typical (µA)	Iq Max. (mA)	Vos Max. (mV)	Operating Voltage Range (V)	Temp. Range (°C)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
									1	25	100	Size	Pricing
4	14 kHz	0.6	.001	3	1.4 - 5.5	-40°C ~ 85°C	14-DIP	MCP6044-I/P-ND	1.93	1.22	1.10	—	—
							14-SOIC	MCP6044-I/SL-ND	1.93	1.22	1.10	—	—
							14-TSSOP	MCP6044-I/ST-ND	1.98	1.25	1.14	—	—
							14-SOIC	MCP6044T-I/SLCT-ND	1.93	1.54	1.35	2,600	1100.00/M
							14-TSSOP	MCP6044T-I/STCT-ND	1.98	1.58	1.39	2,500	1140.00/M
1	200 kHz	20	.03	7	1.8 - 5.5	-40°C ~ 125°C	8-MSOP	MCP6231-E/MS-ND	.45	.41	.25	—	—
							8-SOIC	MCP6231-E/SN-ND	.43	.27	.25	—	—
							SOT23-5	MCP6231RT-E/OTCT-ND	.45	.40	.36	3,000	230.00/M
							SC70-5	MCP6231UT-E/LTCT-ND	.48	.43	.39	3,000	250.00/M
							SOT23-5	MCP6231UT-E/OTCT-ND	.45	.40	.36	3,000	230.00/M
4	300 kHz	20	.03	5	1.8 - 5.5	-40°C ~ 125°C	14-DIP	MCP6234-E/P-ND	.85	.55	.48	—	—
							14-SOIC	MCP6234-E/SL-ND	.85	.55	.48	—	—
4	550 kHz	50	.07	5	1.8 - 5.5	-40°C ~ 125°C	14-DIP	MCP6244-E/P-ND	.85	.55	.48	—	—
							14-SOIC	MCP6244-E/SL-ND	.85	.55	.48	—	—
1	2 MHz	170	.24	3	2.0 - 5.5	-40°C ~ 125°C	8-MSOP	MCP6271-E/MS-ND	.75	.68	.42	—	—
							8-DIP	MCP6271-E/P-ND	.73	.46	.42	—	—
							8-SOIC	MCP6271-E/SN-ND	.73	.46	.42	—	—
							SOT-23-5	MCP6271RT-E/OTCT-ND	.67	.60	.54	3,000	350.00/M
							SOT-23-5	MCP6271T-E/OTCT-ND	.67	.60	.54	3,000	350.00/M
2	2 MHz	170	.24	3	2.0 - 5.5	-40°C ~ 125°C	8-DIP	MCP6272-E/P-ND	.98	.61	.56	—	—
							8-MSOP	MCP6272-E/MS-ND	1.00	.90	.56	—	—
							8-SOIC	MCP6272-E/SN-ND	.98	.61	.56	—	—
1	2 MHz	170	.24	3	2.0 - 5.5	-40°C ~ 125°C	SOT-23-6	MCP6273T-E/CHCT-ND	.70	.63	.57	3,000	370.00/M
							8-MSOP	MCP6273-E/MS-ND	.80	.72	.44	—	—
							8-DIP	MCP6273-E/P-ND	.78	.48	.44	—	—
							8-SOIC	MCP6273-E/SN-ND	.78	.48	.44	—	—
4	2 MHz	170	.24	3	2.0 - 5.5	-40°C ~ 125°C	14-DIP	MCP6274-E/P-ND	1.78	1.13	1.02	—	—
							14-SOIC	MCP6274-E/SL-ND	1.78	1.13	1.02	—	—
							14-TSSOP	MCP6274-E/ST-ND	1.85	1.67	1.02	—	—
2	2,000 kHz	170	.24	3	2.0 - 5.5	-40°C ~ 125°C	8-MSOP	MCP6275-E/MS-ND	1.00	.90	.56	—	—
							8-DIP	MCP6275-E/P-ND	.98	.61	.56	—	—
							8-SOIC	MCP6275-E/SN-ND	.98	.61	.56	—	—
1	5 MHz	445	.57	3	2.2 - 5.5	-40°C ~ 125°C	8-MSOP	MCP6281-E/MS-ND	.90	.81	.50	—	—
							8-DIP	MCP6281-E/P-ND	.88	.55	.50	—	—
							8-SOIC	MCP6281-E/SN-ND	.88	.55	.50	—	—
							SOT-23-5	MCP6281RT-E/OTCT-ND	.78	.70	.63	3,000	410.00/M
							SOT-23-5	MCP6281T-E/OTCT-ND	.78	.70	.63	3,000	410.00/M
2	5 MHz	445	.57	3	2.2 - 5.5	-40°C ~ 125°C	8-MSOP	MCP6282-E/MS-ND	1.23	1.11	.68	—	—
							8-DIP	MCP6282-E/P-ND	1.18	.75	.67	—	—
							8-SOIC	MCP6282-E/SN-ND	1.18	.75	.67	—	—
1	5 MHz	445	.57	3	2.2 - 5.5	-40°C ~ 125°C	8-MSOP	MCP6283-E/MS-ND	.98	.88	.54	—	—
							8-DIP	MCP6283-E/P-ND	.93	.58	.53	—	—
							8-SOIC	MCP6283-E/SN-ND	.93	.58	.53	—	
							SOT-23-6	MCP6283T-E/CHCT-ND	.81	.73	.66	3,000	420.00/M
4	5 MHz	445	.57	3	2.2 - 5.5	-40°C ~ 125°C	14-DIP	MCP6284-E/P-ND	2.03	1.28	1.17	—	—
							14-SOIC	MCP6284-E/SL-ND	2.03	1.28	1.17	—	—
							14-TSSOP	MCP6284-E/ST-ND	2.13	1.35	1.22	—	—
2	5,000 kHz	450	.57	3	2.2 - 5.5	-40°C ~ 125°C	8-MSOP	MCP6285-E/MS-ND	1.23	1.11	.68	—	—
							8-DIP	MCP6285-E/P-ND	1.18	.75	.67	—	—
							8-SOIC	MCP6285-E/SN-ND	1.18	.75	.67	—	—
1	10 MHz	1,000	1.3	3	2.4 - 5.5	-40°C ~ 125°C	8-DIP	MCP6291-E/P-ND	.95	.60	.55	—	—
							8-SOIC	MCP6291-E/SN-ND	.95	.60	.55	—	—
							8-MSOP	MCP6291-E/MS-ND	1.00	.90	.56	—	—
							SOT-23-5	MCP6291RT-E/OTCT-ND	.90	.80	.72	3,000	460.00/M
							SOT-23-5	MCP6291T-E/OTCT-ND	.90	.80	.72	3,000	460.00/M
2	10 MHz	1,000	1.3	3	2.4 - 5.5	-40°C ~ 125°C	8-MSOP	MCP6292-E/MS-ND	1.33	1.20	.73	—	—
							8-DIP	MCP6292-E/P-ND	1.28	.80	.74	—	—
							8-SOIC	MCP6292-E/SN-ND	1.28	.80	.74	—	—
1	10 MHz	1,000	1.3	3	2.4 - 5.5	-40°C ~ 125°C	8-DIP	MCP6293-E/P-ND	1.03	.66	.59	—	—
							8-MSOP	MCP6293-E/MS-ND	1.05	.95	.58	—	—
							8-SOIC	MCP6293-E/SN-ND	1.03	.66	.59	—	—
							SOT-23-6	MCP6293T-E/CHCT-ND	.95	.85	.77	3,000	480.00/M
4	10 MHz	1,000	1.3	3	2.4 - 5.5	-40°C ~ 125°C	14-DIP	MCP6294-E/P-ND	2.25	1.42	1.29	—	—
							14-SOIC	MCP6294-E/SL-ND	2.25	1.42	1.29	—	—
							14-TSSOP	MCP6294-E/ST-ND	2.33	1.48	1.34	—	—
2	10,000 kHz	1,000	1.3	3	2.4 - 5.5	-40°C ~ 125°C	8-MSOP	MCP6295-E/MS-ND	1.33	1.20	.73	—	—
							8-DIP	MCP6295-E/P-ND	1.28	.80	.74	—	—
							8-SOIC	MCP6295-E/SN-ND	1.28	.80	.74	—	—
1	12 MHz	1mA	1.3	.275	2.5 - 5.5	-40°C ~ 85°C	8-MSOP	MCP6S21-I/MS-ND	1.78	1.60	.99	—	—
1	2,000	2,000	3.5	0.05	4.5 ~ 16	0°C ~ 70°C	8-Dip	TC7650CPA-ND	2.98	2.04	1.84	—	—
							14-Dip	TC7650CPD-ND	2.93	2.12	2.01	—	—
1	400	1,000	3	0.05	5 ~ 16	0°C ~ 70°C	8-Dip	TC7652CPA-ND	4.03	2.76	2.50	—	—
2	1,500	650	1.1	0.15	6.5 ~ 16	0°C ~ 70°C	8-Dip	TC913BCPA-ND	4.28	2.94	2.66	—	—
2	90kHz	6	0	1.5	1.8 - 5.5	-40°C ~ 85°C	8-SOIC	TC1029EOA-ND	2.40	1.56	1.49	—	—
							8-MSOP	TC1029EUA-ND	2.65	1.82	1.64	—	—
							8-DIP	TC1029EPA-ND	2.40	1.56	1.49	—	—
1	90kHz	6	0	1.5	1.8 - 5.5	-40°C ~ 85°C	SOT-23A-5	TC1034ECTTRCT-ND	.79	.69	.62	3,000	550.00/M

*For Tape and Reel Part No., change CT-ND to TR-ND.

(Continued)

Programmable Gain Amplifiers

Switching Channels	-3dB BW (MHz)	Iq Typical (mA)	Vos (µV)	Operating Voltage Range (V)	Temp. Range (°C)	Interface	Gain Steps	Noise	VREF	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
												1	25	100	Size	Pricing
1	2 ~ 12	1.1	275	2.5 - 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	8-DIP	MCP6S21-I/P-ND	1.83	1.16	1.04	—	—
										8-SOIC	MCP6S21-I/SN-ND	1.78	1.60	.99	—	—
2	2 ~ 12	1.1	275	2.5 - 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	8-MSOP	MCP6S22-I/MS-ND	2.05	1.85	1.14	—	—
										8-DIP	MCP6S22-I/P-ND	2.15	1.37	1.23	—	—
										8-SOIC	MCP6S22-I/SN-ND	2.05	1.85	1.14	—	—
6	2 ~ 12	1.1	275	2.5 - 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	14-DIP	MCP6S26-I/P-ND	3.30	2.09	1.90	—	—
										14-SOIC	MCP6S26-I/SL-ND	3.25	2.93	1.80	—	—
										14-TSSOP	MCP6S26-I/ST-ND	3.25	2.93	1.80	—	—
8	2 ~ 12	1.1	275	2.5 - 5.5	-40°C ~ 85°C	SPI™	8	10	Yes	16-DIP	MCP6S28-I/P-ND	3.80	2.41	2.18	—	—
										16-SOIC	MCP6S28-I/SL-ND	3.60	3.24	1.99	—	—
1	1 ~ 18	1	4,000	2.5 ~ 5.5	-40° ~ 125°	SPI™	8	10	No	8-MSOP	MCP6S91-E/MS-ND	1.38	1.24	.76	—	—
										8-DIP	MCP6S91-E/P-ND	1.43	.90	.82	—	—
										8-SOIC	MCP6S91-E/SN-ND	1.38	1.24	.76	—	—
2	1 ~ 18	1	4,000	2.5 ~ 5.5	-40° ~ 125°	SPI™	8	10	No	8-MSOP	MCP6S92-E/MS-ND	1.65	1.49	.91	—	—
										8-DIP	MCP6S92-E/P-ND	1.68	1.06	.97	—	—
										8-SOIC	MCP6S92-E/SN-ND	1.65	1.49	.91	—	—
2	1 ~ 18	1	4,000	2.5 ~ 5.5	-40° ~ 125°	SPI™	8	10	No	10-MSOP	MCP6S93-E/UN-ND	2.00	1.27	1.16	—	—
										10-MSOP	MCP6S93T-E/UNCT-ND	2.24	2.00	1.80	2,500	1160.00/M
Demo Board for MCP6S22											MCP6S22DM-PICTL-ND		40.00/1			
Evaluation Board for MCP6S2X											MCP6S2XEV-ND		30.00/1			
PICtail™ Daughter Board MCP6SX2											MCP6SX2DM-PCTLPD-ND		25.00/1			
PICtail™ Demo Board MCP6SX2											MCP6SX2DM-PCTLTH-ND		35.00/1			

*For Tape and Reel Part No., change CT-ND to TR-ND.

Comparators

# per Package	Typical Propagation Delay (µA)	Iq Typical (µA)	Vos Max. (mV)	Operating Voltage Range (V)	Temperature Range	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
								1	25	100	Size	Pricing
1	4	1	5	1.6 ~ 5.5	-40°C ~ 85°C	SOT-23-5	MCP6541UT-E/OTCT-ND	.59	.53	.48	3,000	310.00/M
1	4	1	5	1.8 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP6546-I/MS-ND	.63	.57	.34	—	—
						8-SOIC	MCP6546-I/SN-ND	.60	.38	.34	—	—
1	4	1	5	1.8 ~ 5.5	-40°C ~ 85°C	8-MSOP	MCP6548-I/MS-ND	.65	.59	.36	—	—
						8-SOIC	MCP6548-I/SN-ND	.63	.40	.36	—	—
4	4	1	5	1.8 ~ 5.5	-40°C ~ 85°C	14-Dip	MCP6549-I/P-ND	1.60	1.01	.92	—	—
						14-SOIC	MCP6549-I/SL-ND	1.60	1.01	.92	—	—
						14-TSSOP	MCP6549-I/ST-ND	1.65	1.49	.92	—	—

*For Tape and Reel Part No., change CT-ND to TR-ND.

Thermal Management

Temperature Sensors

Typical Accuracy (°)	Temperature Range (°C)	Vcc Range (V)	Max. Supply Current (mA)	Package	Digi-Key Part No.	Price Each			Tape and Reel*	
						1	25	100	Size	Pricing
Logic Output										
±1	-40°C ~ 85°C	4.5-18	400	8-Dip	TC620CCPA-ND	1.78	1.22	1.10	—	—
±1	-40°C ~ 85°C	4.5-18	400	8-SOIC	TC621CCOA-ND	1.51	1.10	1.05	—	—
±1	-40°C ~ 125°C	4.5-18	600	8-Dip	TC622EPA-ND	1.49	1.08	1.03	—	—
±1	-40°C ~ 125°C	4.5-18	600	TO-220	TC622VAT-ND	2.34	1.70	1.61	—	—
±1	-40°C ~ 125°C	4.5-18	600	8-SOIC	TC622VOA-ND	1.69	1.23	1.17	—	—
±0.5	-55°C ~ 125°C	2.7-5.5	40	SOT-23A-5	TC6502P045VCCT-ND	1.20	1.08	.97	3,000	670.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	40	SOT-23A-5	TC6502P055VCCT-ND	1.20	1.08	.97	3,000	670.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	40	SOT-23A-5	TC6502P065VCCT-ND	1.20	1.08	.97	3,000	670.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	40	SOT-23A-5	TC6502P075VCCT-ND	1.20	1.08	.97	3,000	670.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	40	SOT-23A-5	TC6502P085VCCT-ND	1.20	1.08	.97	3,000	670.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	40	SOT-23A-5	TC6502P095VCCT-ND	1.20	1.08	.97	3,000	670.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	40	SOT-23A-5	TC6502P105VCCT-ND	1.20	1.08	.97	3,000	670.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	40	SOT-23A-5	TC6502P115VCCT-ND	1.20	1.08	.97	3,000	670.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	40	SOT-23-5	TC6501P120VCT-ND	1.34	1.20	1.08	3,000	740.00/M
Serial Output										
±0.5	-40°C ~ 125°C	2.7-5.5	350	SOT-23A-5	TC74A0-5.0VCTCT-ND	1.30	1.04	.91	3,000	860.01/M
±0.5	-40°C ~ 125°C	2.7-5.5	350	SOT-23A-5	TC74A5-3.3VCTCT-ND	1.30	1.04	.91	3,000	860.01/M
±0.5	-40°C ~ 125°C	2.7-5.5	350	SOT-23A-5	TC74A5-5.0VCTCT-ND	1.30	1.04	.91	3,000	860.01/M
±0.5	-55°C ~ 125°C	2.7-5.5	400	SOT-23-5	TC77-3.3MCTTRCT-ND	1.53	1.22	1.07	3,000	900.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	400	8-SOIC	TC77-3.3MOA-ND	1.48	.87	.83	—	—
±0.5	-55°C ~ 125°C	2.7-5.5	400	SOT-23-5	TC77-5.0MCTTRCT-ND	1.53	1.22	1.07	3,000	900.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	400	8-SOIC	TC77-5.0MOA-ND	1.40	.83	.79	—	—
±0.5	-40°C ~ 125°C	2.7-5.5	500	8-SOIC	TCN75AVOA-ND	.93	.63	.53	—	—
±0.5	-40°C ~ 125°C	2.7-5.5	500	8-MSOP	TCN75AVUA-ND	.93	.63	.53	—	—
±0.5	-55°C ~ 125°C	2.7-5.5	1,000	8-SOIC	TCN75-3.3MOA-ND	1.45	.96	.92	—	—
±0.5	-55°C ~ 125°C	2.7-5.5	1,000	8-MSOP	TCN75-3.3MUA-ND	1.65	1.10	.95	—	—
±0.5	-55°C ~ 125°C	2.7-5.5	1,000	8-SOIC	TCN75-5.0MOA-ND	1.83	1.21	1.16	—	—
±0.5	-55°C ~ 125°C	2.7-5.5	1,000	8-MSOP	TCN75-5.0MUA-ND	1.65	1.10	.95	—	—
Voltage Output										
±0.5	-40°C ~ 125°C	2.7-4.4	60	SOT-23B	TC1046VNBTRCT-ND	.90	.72	.63	3,000	450.00/M
±0.5	-40°C ~ 125°C	2.7-5.5	60	SOT-23B	TC1047AVNBCT-ND	.83	.66	.58	3,000	470.00/M
±0.5	-40°C ~ 125°C	2.3-5.5	12	SC70-5	MCP9700T-E/LTCT-ND	.36	.33	.30	3,000	190.00/M
±0.5	-10°C ~ 125°C	3.1-5.5	12	SC70-5	MCP9701T-E/LTCT-ND	.36	.33	.30	3,000	190.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	400	SOT23-5	MCP9800A0T-M/OTCT-ND	1.60	1.43	1.29	3,000	900.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	400	SOT23-5	MCP9800A5T-MOTGCT-ND	1.76	1.58	1.42	3,000	900.00/M
±0.5	-55°C ~ 125°C	2.7-5.5	400	8-MSOP	MCP9801-M/MSG-ND	1.48	1.00	.85	—	—
±0.5	-55°C ~ 125°C	2.7-5.5	400	8-SOIC	MCP9801-M/SNG-ND	1.48	1.00	.85	—	—
±0.5	-55°C ~ 125°C	2.7-5.5	400	SOT23-5	MCP9802A0T-MOTGCT-ND	1.85	1.65	1.49	3,000	960.01/M
±0.5	-55°C ~ 125°C	2.7-5.5	400	SOT23-5	MCP9802A5T-MOTGCT-ND	1.85	1.65	1.49	3,000	960.01/M
±0.5	-55°C ~ 125°C	2.7-5.5	400	8-MSOP	MCP9803-M/MSG-ND	1.58	1.04	.90	—	—
±0.5	-55°C ~ 125°C	2.7-5.5	400	8-SOIC	MCP9803-M/SNG-ND	1.58	1.04	.90	—	—
±0.5	-20°C ~ 125°C	3.0-3.6	500	8-TSSOP	MCP9805-BE/ST-ND ***NEW!***	1.38	.99	.80	—	—
Demo Board for PICtail™ MCP9700					MCP9700DM-PCTL-ND		10.00/1			
Demo Board for MCP9800					MCP9800DM-DL-ND ***NEW!***		35.00/1			
Demo Board for PICtail™ MCP9800					MCP9800DM-PCTL-ND		25.00/1			
Mixed Signal PICtail™ Demo Board					MXSIGDM-ND		65.00/1			
Temperature-to-Voltage Converter Demo Board for TC1047A					TC1047ADM-PICTL-ND		10.00/1			
Digital Temperature Sensor PICtail™ Demo Board					TC72DM-PICTL-ND		10.00/1			
Thermal Sensor PICtail™ Demo Board					TC77DM-PICTL-ND		10.00/1			
Voltage Supervisor SOT23 Evaluation Board					VSUPEV-ND		5.00/1			

*For Tape and Reel Part No., change CT-ND to TR-ND.

(Continued)

Fan Controllers

Typical Accuracy (°)	Temperature Range (°)	Vcc Range (V)	Max. Supply Current	Package	Digi-Key Part No.	Price Each 1	25	100	Tape and Reel* Size	Pricing
Depends on External Thermistor	-40°C ~ 85°C	3.0 - 5.5	1.0mA	8-SOIC	TC642COA-ND	1.83	1.16	1.04	—	—
				8-Dip	TC642CPA-ND	1.88	1.19	1.08	—	—
				8-Dip	TC642VPA-ND	2.05	1.30	1.18	—	—
				8-SOIC	TC646VOA-ND	1.95	1.24	1.12	—	—
				8-Dip	TC646VPA-ND	2.05	1.30	1.18	—	—
				8-SOIC	TC648VOA713CT-ND	1.63	1.30	1.14	3,300	930.00/M
				8-Dip	TC648VPA-ND	1.73	1.09	.99	—	—
				8-MSOP	TC648VUA-ND	1.55	.98	.89	—	—
±1	-40°C ~ 125°C	2.8 - 5.5	.040mA	8-MSOP	TC652AGVUA-ND	2.38	1.50	1.37	—	—

*For Tape and Reel Part No., change CT-ND to TR-ND.

Interface

Serial Peripherals

Description	Operating Voltage (V)	Interface	Max. Bus Frequency (kBits/s)	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
8-bit I/O Port Expander	1.8 ~ 5.5	I^{2}C™	1700	-40°C ~ 125°C	18-DIP	MCP23008-E/P-ND	1.35	.90	.78
					18-SOIC	MCP23008-E/SO-ND	1.35	.90	.78
					20-SSOP	MCP23008-E/SS-ND	1.45	.96	.83
8-bit I/O Port Expander	1.8 ~ 5.5	SPI™	10,000	-40°C ~ 125°C	18-DIP	MCP23S08-E/P-ND	1.43	.94	.82
					20-SSOP	MCP23S08-E/SS-ND	1.50	.99	.87
16-bit I/O Port Expander	1.8 ~ 5.5	I^{2}C™	1700	-40°C ~ 125°C	28-QFN	MCP23017-E/ML-ND	1.85	1.22	1.07
					28-SOIC	MCP23017-E/SO-ND	1.58	1.05	.90
					28-DIP	MCP23017-E/SP-ND	1.58	1.05	.90
					28-SSOP	MCP23017-E/SS-ND	1.65	1.10	.95
16-bit I/O Port Expander	1.8 ~ 5.5	SPI™	10,000	-40°C ~ 125°C	28-QFN	MCP23S17-E/ML-ND	1.98	1.30	1.14
					28-SOIC	MCP23S17-E/SO-ND	1.65	1.10	.95
					28-DIP	MCP23S17-E/SP-ND	1.65	1.10	.95
					28-SSOP	MCP23S17-E/SS-ND	1.75	1.16	1.00
Evaluation Board for MCP23X08						MCP23X08EV-ND		25.00/1	

Ethernet

MAC	PHY	TX/RX Dual Port RAM Buffer (KB)	Interrupts	LED	Operating Voltage (V)	Temp. Range (°C)	Max Speed MHz	Serial	Package	Digi-Key Part No.	Price Each 1	25	100
Yes	Yes	8	2	2	3.3	0°C ~ 70°C	25	SPI	28-QFN	ENC28J60/ML-ND ***NEW!***	7.80	7.02	3.90
									28-SOIC	ENC28J60/SO-ND	7.15	6.44	3.58
									28-DIP	ENC28J60/SP-ND ***NEW!***	7.55	6.80	3.78
									28-SSOP	ENC28J60/SS-ND	7.08	6.37	3.54

Infrared Products

Description	Operating Voltage Range (V)	Temperature Range (°C)	Max. Baud Rate (kBaud)	Xmit/Rec Formats Supported (µS)	Package	Digi-Key Part No.	Price Each 1	25	100
Infrared Encoder/Decoder	2.7 ~ 5.5	-40°C ~ 85°C	325	1.63	14-Dip	MCP2120-I/P-ND	2.30	1.43	1.32
					14-SOIC	MCP2120-I/SL-ND	2.30	1.43	1.32
Fixed Speed 9600 Baud IrDA Protocol Stack Controller	2.7 ~ 5.5	-40°C ~ 85°C	9.6	1.63	18-Dip	MCP2140-I/P-ND	2.70	1.81	1.55
					18-SOIC	MCP2140-I/SO-ND	2.70	1.81	1.55
					20-SSOP	MCP2140-I/SS-ND	2.85	1.92	1.63
IrDA Protocol Stack handler plus bit encoding/decodeing for DTE applications	3.0 ~ 5.5	-40°C ~ 85°C	115.2	1.63	18-Dip	MCP2150-I/P-ND	8.45	5.65	4.87
					18-SOIC	MCP2150-I/SO-ND	8.45	5.65	4.87
IrDA Communication Development Kit for MCP2120/2150						DM163008-ND		279.99/1	
Demo Board for MCP212X						MCP212XEV-DB-ND ***NEW!***		35.00/1	
Demo Board for MCP2140						MCP2140DM-TMPSNS-ND		45.00/1	
Demo Board for MCP215X/40						MCP215X/40EV-DB-ND ***NEW!***		55.00/1	

LCD Drivers

Drives Number of Segments	Control Lines Required	Number of Charcters	Cascadable	On-chip Oscillator	CMOS and TTL Compatible inputs	Electrostatic Discharge Protection on all Pins	Package	Digi-Key Part No.	Price Each 1	25	100
32	3	16	Yes	Yes	Yes	Yes	44-PLCC	AY0438/L-ND	5.98	4.95	4.12
							40-Dip	AY0438/P-ND	4.38	3.52	2.94
							44-PLCC	AY0438-I/L-ND	6.28	5.21	4.34
							40-Dip	AY0438-I/P-ND	4.58	3.66	3.06

LIN Transceivers

Description	Vreg Output Voltage (V)	Vreg Output Current (mA)	Vcc Range (V)	Max. Baud Rate (KBaud)	LIN Specification Supported	Package	Digi-Key Part No.	Price Each 1	25	100
LIN Transceiver with integrated Vreg	4.75 ~ 5.25	50	6.0 ~ 18	20	Revision 1.2	8-Dip	MCP201-I/P-ND	2.03	1.35	1.17
						8-SOIC	MCP201-I/SN-ND	2.03	1.35	1.17

Controller Area Network (CAN)

Version Supported	Operating Voltage (V)	Temperature Range	Tx Buffers	Rx Buffers	Filters	Masks	Interrupt Output	Package	Digi-Key Part No.	Price Each 1	25	100
2.0B Active	2.7 ~ 5.5	-40°C ~ 125°C	3	2	6	2	1	18-Dip	MCP2510-E/P-ND	5.20	3.00	2.99
								18-SOIC	MCP2510-E/SO-ND	5.20	3.00	2.99
								18-Dip	MCP2510-I/P-ND	4.10	2.37	2.35
								18-SOIC	MCP2510-I/SO-ND	4.10	2.37	2.35
2.0B Active	2.7 ~ 5.5	-40°C ~ 125°C	3	2	6	2	1	18-Dip	MCP2515-I/P-ND	2.98	1.98	1.71
								18-SOIC	MCP2515-I/SO-ND	2.98	1.98	1.71
								20-TSSOP	MCP2515-I/ST-ND	3.28	2.19	1.89
—	4.5 ~ 5.5	-40°C ~ 125°C	—	—	—	—	—	8-Dip	MCP2551-I/P-ND	1.45	.85	.83
								8-SOIC	MCP2551-I/SN-ND	1.45	.85	.83
MCP250XX CAN I/O Expander Development Kit									DV250501-ND		165.00/1	
MCP2510CAN Developer's Kit									DV251001-ND		239.99/1	
Demo Board for MCP2515									MCP2515DM-PCTL-ND ***NEW!***		40.00/1	

ZiLOG
Embedded in life
www.zilog.com

SILICON

Voted the **most flexible and easy-to-use architecture**, ZiLOG's embedded control solutions wrap over 30 years of design experience into the latest innovative.

DEVELOPMENT TOOLS

Offering the **most complete development tools at the lowest cost**, ZiLOG ensures you have all the hardware and software needed to complete your design - without any hidden costs.

Z8 Encore!® and Z8 Encore! XP® Flash Microcontrollers

Whether your application is motor control, security systems, systems monitoring, personal electronic devices, home appliances, home automation, or any embedded control system, the Z8 Encore!® or Z8 Encore! XP® Development Kit is a complete development platform, including all the hardware and software you need to begin your design immediately. Every kit also includes a full-version ANSI C-Compiler at no extra cost. Evaluate, Design, Build — it's that simple. There's nothing else to buy.

Development Kit Contents:

Hardware
- ZiLOG Development Board
- Smart Cable (Serial or USB)
- 5VDC Universal Power Supply

Software
- ZDS II Integrated Development Environment (IDE)
- ANSI C-Compiler
- Sample Code

Documentation/CD-ROM
- Quick Start Guide
- Development Kit User Manual
- ZDS II User Manual
- eZ8 CPU User Manual
- Product Specification
- Product Briefs
- Application Notes

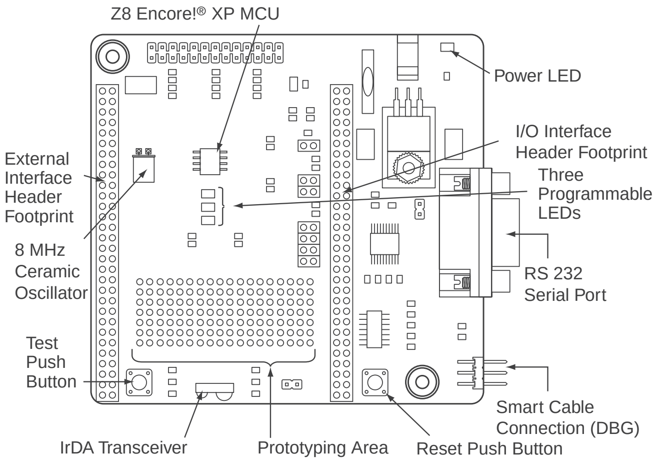

Z8 Encore!® and Z8 Encore! XP® Board Features

Z8 Encore!® and Z8 Encore! XP® Flash Microcontroller Supported Tools and Silicon

Z8 Encore!® Development Kits

269-3249-ND	Z8 Encore!® F642 Series Development Kit	**$39.95**
269-3183-ND	Z8 Encore!® 8K Series Development Kit	**$39.95**
269-3386-ND	Modular Development System GP Kit	**$149.95**
269-3248-ND	Smart Cable Accessory Kit	**$19.95**

Z8 Encore! XP® Development Kit

269-3307-ND	Z8 Encore! XP® 20 and 28-Pin Development Kit	**$39.95**

NOTE: For a complete listing of all ZiLOG part numbers, go to **www.digikey.com** (search by 6-digit device family — i.e. Z8F642)

Z8 Encore!® Silicon

Devices	Memory		Core Speed	I/O		16-Bit Timers	10-Bit A/D	DMA	SPI		Operating	Extended	Pin	Development
	Flash (Bytes)	RAM (Bytes)	(MHz)	Lines	Interrupts	w/PWMs	Channels	Controller	and I^2C	UARTs	Voltage	Temp.	Count	Kit
64K Series														
Z8F642	64K	4K	20	60	24	4	12	Yes	Yes	2	3.0V ~ 3.6V	-40° ~ 105°	40, 44, 64, 68, 80	Z8F64200100KIT
Z8F482	48K	4K	20	60	24	4	12	Yes	Yes	2	3.0V ~ 3.6V	-40° ~ 105°	40, 44, 64, 68, 80	Z8F64200100KIT
Z8F322	32K	2K	20	46	24	4	12	Yes	Yes	2	3.0V ~ 3.6V	-40° ~ 105°	40, 44, 64, 68	Z8F64200100KIT
Z8F242	24K	2K	20	46	24	4	12	Yes	Yes	2	3.0V ~ 3.6V	-40° ~ 105°	40, 44, 64, 68	Z8F64200100KIT
Z8F162	16K	2K	20	46	24	4	12	Yes	Yes	2	3.0V ~ 3.6V	-40° ~ 105°	40, 44, 64, 68	Z8F64200100KIT
8K Series														
Z8F081/82	8K	1K	20	19	19	2	12	Yes	Yes	1	2.7V ~ 3.6V	-40° ~ 105°	20, 28	Z8F08200100KIT
Z8F041/42	4K	1K	20	19	19	2	12	Yes	Yes	1	2.7V ~ 3.6V	-40° ~ 105°	20, 28	Z8F08200100KIT

MCU Features
- 20MHz Processor
- Up to 12-channel, 10-bit A/D Converter
- Up to 64KB of Flash
- Up to 4KB SRAM
- SPI and I^2C Ports
- Up to two UARTs
- Up to 24 Interrupts
- Up to four, 16-bit Timers with PWMs
- Single-pin, On-chip Debugger
- 3-channel DMA (16-16KB parts only)

Z8 Encore! XP® Silicon

Devices	Memory		Core Speed	I/O		16-Bit Timers	10-Bit A/D	DMA	SPI		Operating	Extended	Pin	Development
	Flash (Bytes)	RAM (Bytes)	(MHz)	Lines	Interrupts	w/PWMs	Channels	Controller	and I^2C	UARTs	Voltage	Temp.	Count	Kit
4K Series														
Z8F042A	4K	1K	20	23	18	2	8	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT
Z8F041A	4K	1K	20	25	17	2	—	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT
Z8F022A	2K	512B	20	23	18	2	8	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT
Z8F021A	2K	512B	20	25	17	2	—	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT
Z8F012A	1K	256B	20	23	18	2	8	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT
Z8F011A	1K	256B	20	25	17	2	—	No	No	1	2.7V ~ 3.6V	-40° ~ 105°	8, 20, 28	Z8F04A28100KIT Z8F04A08100KIT

MCU Features
- 20MHz Processor
- Up to 8-channel, 10-bit A/D Converter
- Up to 4KB of Flash
- Up to 1KB SRAM
- One UART
- Up to 18 Interrupts
- Up to two, 16-bit Timers with PWMs
- Single-pin, On-chip Debugger
- On-chip Temperature Sensor
- On-chip Analog Comparator

Crimzon™ Z8 OTP Microcontrollers

Features: • WDT • LV Detect • POR • 2 Comparators • HVD

OTP (KB)	RAM Bytes	Speed (MHz)	I/O Lines	Timers 8/16-bit	Operating Voltage	Temperature Range	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
									1	25	100		
4	237	8	16	1/1	2.0 ~ 3.6V	0° ~ 70°C	20-DIP 20-SOIC 20-SSOP	269-3854-ND† ***NEW!*** 269-3857-ND† ***NEW!*** 269-3851-ND† ***NEW!***	4.62 4.26 4.26	3.47 3.20 3.20	2.39 1.99 1.99	ZLP32300P2004G ZLP32300S2004G ZLP32300H2004G	269-3398-ND
			24	1/1	2.0 ~ 3.6V	0° ~ 70°C	28-DIP 28-SOIC 28-SSOP	269-3855-ND† ***NEW!*** 269-3858-ND† ***NEW!*** 269-3852-ND† ***NEW!***	5.01 4.38 4.38	3.76 3.29 3.29	2.32 2.05 2.05	ZLP32300P2804G ZLP32300S2804G ZLP32300H2804G	269-3398-ND
			32	1/1	2.0 ~ 3.6V	0° ~ 70°C	40-DIP 48-SSOP	269-3856-ND† ***NEW!*** 269-3853-ND† ***NEW!***	5.43 4.41	4.08 3.31	2.54 2.06	ZLP32300P4004G ZLP32300H4804G	269-3398-ND
8	237	8	16	1/1	2.0 ~ 3.6V	0° ~ 70°C	20-DIP 20-SOIC 20-SSOP	269-3422-ND 269-3423-ND 269-3424-ND	4.92 4.56 4.56	3.69 3.42 3.42	2.49 2.09 2.09	ZLP32300P2008C ZLP32300S2008C ZLP32300H2008C	269-3398-ND
			24	1/1	2.0 ~ 3.6V	0° ~ 70°C	28-DIP 28-SOIC 28-SSOP	269-3425-ND 269-3426-ND 269-3427-ND	5.31 4.68 4.68	3.99 3.51 3.51	2.42 2.15 2.15	ZLP32300P2808C ZLP32300S2808C ZLP32300H2808C	269-3398-ND
			32	1/1	2.0 ~ 3.6V	0° ~ 70°C	40-DIP 48-SSOP	269-3428-ND 269-3429-ND	5.73 4.71	4.30 3.54	2.64 2.16	ZLP32300P4008C ZLP32300H4808C	269-3398-ND
16	237	8	16	1/1	2.0 ~ 3.6V	0° ~ 70°C	20-DIP 20-SOIC 20-SSOP	269-3406-ND 269-3407-ND 269-3408-ND	5.52 4.86 5.16	4.14 3.65 3.87	2.49 2.19 2.19	ZLP32300P2016C ZLP32300S2016C ZLP32300H2016C	269-3398-ND
			24	1/1	2.0 ~ 3.6V	0° ~ 70°C	28-DIP 28-SOIC 28-SSOP	269-3409-ND 269-3410-ND 269-3411-ND	5.61 4.98 4.98	4.21 3.74 3.74	2.53 2.25 2.25	ZLP32300P2816C ZLP32300S2816C ZLP32300H2816C	269-3398-ND
			32	1/1	2.0 ~ 3.6V	0° ~ 70°C	40-DIP 48-SSOP	269-3412-ND 269-3413-ND	6.03 5.01	4.53 3.76	2.74 2.26	ZLP32300P4016C ZLP32300H4816C	269-3398-ND
32	237	8	16	1/1	2.0 ~ 3.6V	0° ~ 70°C	20-DIP 20-SOIC 20-SSOP	269-3414-ND 269-3415-ND 269-3416-ND	5.82 5.16 5.16	4.37 3.87 3.87	2.59 2.29 2.29	ZLP32300P2032C ZLP32300S2032C ZLP32300H2032C	269-3398-ND
			24	1/1	2.0 ~ 3.6V	0° ~ 70°C	28-DIP 28-SOIC 28-SSOP	269-3417-ND 269-3418-ND 269-3419-ND	5.91 5.28 5.28	4.44 3.96 3.96	2.63 2.35 2.35	ZLP32300P2832C ZLP32300S2832C ZLP32300H2832C	269-3398-ND
			32	1/1	2.0 ~ 3.6V	0° ~ 70°C	40-DIP 48-SSOP	269-3420-ND 269-3421-ND	6.39 5.31	4.80 3.99	2.84 2.36	ZLP32300P4032C ZLP32300H4832C	269-3398-ND
32	1K	8	16	1/1	2.0 ~ 3.6V	0° ~ 70°C	20-DIP 20-SOIC 20-SSOP	269-3839-ND† ***NEW!*** 269-3845-ND† ***NEW!*** 269-3833-ND† ***NEW!***	6.75 6.03 6.03	5.07 4.53 4.53	3.21 2.87 2.87	ZLP12840P2032G ZLP12840S2032G ZLP12840H2032G	269-3398-ND
			24	1/1	2.0 ~ 3.6V	0° ~ 70°C	28-DIP 28-SOIC 28-SSOP	269-3842-ND† ***NEW!*** 269-3848-ND† ***NEW!*** 269-3836-ND† ***NEW!***	6.84 6.15 6.15	5.13 4.62 4.62	3.26 2.93 2.93	ZLP12840P2832G ZLP12840S2832G ZLP12840H2832G	269-3398-ND
64	1K	8	16	1/1	2.0 ~ 3.6V	0° ~ 70°C	20-DIP 20-SOIC 20-SSOP	269-3840-ND† ***NEW!*** 269-3846-ND† ***NEW!*** 269-3834-ND† ***NEW!***	7.44 6.66 6.66	5.58 5.00 5.00	3.54 3.17 3.17	ZLP12840P2064G ZLP12840S2064G ZLP12840H2064G	269-3398-ND
			24	1/1	2.0 ~ 3.6V	0° ~ 70°C	28-DIP 28-SOIC 28-SSOP	269-3843-ND† ***NEW!*** 269-3849-ND† ***NEW!*** 269-3837-ND† ***NEW!***	7.53 6.78 6.78	5.65 5.09 5.09	3.59 3.23 3.23	ZLP12840P2864G ZLP12840S2864G ZLP12840H2864G	269-3398-ND
96	1K	8	16	1/1	2.0 ~ 3.6V	0° ~ 70°C	20-DIP 20-SOIC 20-SSOP	269-3841-ND† ***NEW!*** 269-3847-ND† ***NEW!*** 269-3835-ND† ***NEW!***	8.19 7.32 7.32	6.15 5.49 5.49	3.90 3.49 3.49	ZLP12840P2096G ZLP12840S2096G ZLP12840H2096G	269-3398-ND
			24	1/1	2.0 ~ 3.6V	0° ~ 70°C	28-DIP 28-SOIC 28-SSOP	269-3844-ND† ***NEW!*** 269-3850-ND† ***NEW!*** 269-3838-ND† ***NEW!***	8.31 7.47 7.47	6.24 5.61 5.61	3.96 3.56 3.56	ZLP12840P2896G ZLP12840S2896G ZLP12840H2896G	269-3398-ND
128	1K	8	16	1/1	2.0 ~ 3.6V	0° ~ 70°C	20-DIP 20-SOIC 20-SSOP	269-3825-ND† ***NEW!*** 269-3827-ND† ***NEW!*** 269-3823-ND† ***NEW!***	9.03 8.07 8.07	6.78 6.06 6.06	4.30 3.84 3.84	ZLP12840P2028G ZLP12840S2028G ZLP12840H2028G	269-3398-ND
			24	1/1	2.0 ~ 3.6V	0° ~ 70°C	28-DIP 28-SOIC 28-SSOP	269-3826-ND† ***NEW!*** 269-3828-ND† ***NEW!*** 269-3824-ND† ***NEW!***	9.15 8.22 8.22	6.87 6.17 6.17	4.36 3.91 3.91	ZLP12840P2828G ZLP12840S2828G ZLP12840H2828G	269-3398-ND

† RoHS Compliant

Z8 GP™ OTP Microcontrollers

Features: • WDT • LV Detect • POR • 2 Comparators • HVD

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Operating Voltage	Speed (MHz)	Counters (8/16-bit)	Timer/ Operating Temperature	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
									1	25	100		
4K	237	16	2.0 ~ 5.5V	8	1/1	Extended Extended Extended Commercial Commercial Commercial	20-SSOP 20-DIP 20-SOIC 20-SSOP 20-DIP 20-SOIC	269-3502-ND 269-3514-ND 269-3526-ND 269-3534-ND 269-3549-ND 269-3561-ND	3.57 4.11 3.54 3.45 3.99 3.42	2.68 3.09 2.66 2.59 3.00 2.57	1.75 2.01 1.75 1.71 1.96 1.71	ZGP323HEH2004C ZGP323HEP2004C ZGP323HES2004C ZGP323HSH2004C ZGP323HSP2004C ZGP323HSS2004C	269-3399-ND, 269-3390-ND
		16	2.0 ~ 3.6V	8	1/1	Extended Extended Extended Commercial Commercial Commercial	20-SSOP 20-DIP 20-SOIC 20-SSOP 20-DIP 20-SOIC	269-3569-ND 269-3581-ND 269-3593-ND 269-3601-ND 269-3616-ND 269-3628-ND	3.27 3.81 3.24 3.15 3.66 3.12	2.46 2.86 2.43 2.37 2.75 2.34	1.65 1.90 1.65 1.61 1.86 1.61	ZGP323LEH2004C ZGP323LEP2004C ZGP323LES2004C ZGP323LSH2004C ZGP323LSP2004C ZGP323LSS2004C	269-3399-ND, 269-3390-ND
		24	2.0 ~ 5.5V	8	1/1	Extended Extended Extended Commercial Commercial Commercial	28-SSOP 28-DIP 28-SOIC 28-SSOP 28-DIP 28-SOIC	269-3506-ND 269-3518-ND 269-3530-ND 269-3538-ND 269-3553-ND 269-3565-ND	3.66 4.17 3.66 3.51 4.05 3.51	2.75 3.13 2.75 2.64 3.04 2.64	1.80 2.04 1.80 1.76 2.00 1.76	ZGP323HEH2804C ZGP323HEP2804C ZGP323HES2804C ZGP323HSH2804C ZGP323HSP2804C ZGP323HSS2804C	269-3399-ND, 269-3390-ND
		24	2.0 ~ 3.6V	8	1/1	Extended Extended Extended Commercial Commercial Commercial	28-SSOP 28-DIP 28-SOIC 28-SSOP 28-DIP 28-SOIC	269-3573-ND 269-3585-ND 269-3597-ND 269-3605-ND 269-3620-ND 269-3632-ND	3.33 3.87 3.33 3.21 3.75 3.21	2.50 2.91 2.50 2.41 2.82 2.41	1.70 1.94 1.70 1.66 1.90 1.66	ZGP323LEH2804C ZGP323LEP2804C ZGP323LES2804C ZGP323LSH2804C ZGP323LSP2804C ZGP323LSS2804C	269-3399-ND, 269-3390-ND
		32	2.0 ~ 5.5V	8	1/1	Extended Commercial	40-DIP 40-DIP	269-3522-ND 269-3557-ND	4.59 4.47	3.45 3.36	2.22 2.18	ZGP323HEP4004C ZGP323HSP4004C	269-3399-ND, 269-3390-ND
		32	2.0 ~ 3.6V	8	1/1	Extended Commercial	40-DIP 40-DIP	269-3589-ND 269-3624-ND	4.29 4.17	3.22 3.13	2.12 2.07	ZGP323LEP4004C ZGP323LSP4004C	269-3399-ND, 269-3390-ND
		32	2.0 ~ 5.5V	8	1/1	Extended Commercial	48-SSOP 48-SSOP	269-3510-ND 269-3542-ND	3.66 3.54	2.75 2.66	1.81 1.77	ZGP323HEH4804C ZGP323HSH4804C	269-3399-ND, 269-3390-ND
		32	2.0 ~ 3.6V	8	1/1	Extended Commercial	48-SSOP 48-SSOP	269-3577-ND 269-3609-ND	3.36 3.24	2.52 2.43	1.71 1.67	ZGP323LEH4804C ZGP323LSH4804C	269-3399-ND, 269-3390-ND
8K	237	16	2.0 ~ 5.5V	8	1/1	Extended Extended Extended	20-SSOP 20-DIP 20-SOIC	269-3503-ND 269-3515-ND 269-3527-ND	3.69 4.23 3.66	2.77 3.18 2.75	1.79 2.05 1.79	ZGP323HEH2008C ZGP323HEP2008C ZGP323HES2008C	269-3399-ND, 269-3390-ND

(Continued)

Z8 GP™ OTP Microcontrollers *(Cont.)*

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Operating Voltage	Speed (MHz)	Counters (8/16-bit)	Timer/ Operating Temperature	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
									1	25	100		
8K	237	16	2.0 ~ 3.6V	8	1/1	Commercial	20-SSOP	269-3535-ND	3.57	2.68	1.75	ZGP323HSH2008C	269-3399-ND, 269-3390-ND
						Commercial	20-DIP	269-3550-ND	4.11	3.09	2.01	ZGP323HSP2008C	
						Commercial	20-SOIC	269-3562-ND	3.54	2.66	1.75	ZGP323HSS2008C	
		16	2.0 ~ 3.6V	8	1/1	Extended	20-SSOP	269-3570-ND	3.39	2.55	1.69	ZGP323LEH2008C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3582-ND	3.93	2.95	1.95	ZGP323LEP2008C	
						Extended	20-SOIC	269-3594-ND	3.36	2.52	1.69	ZGP323LES2008C	
						Commercial	20-SSOP	269-3602-ND	3.27	2.46	1.65	ZGP323LSH2008C	
						Commercial	20-DIP	269-3617-ND	3.81	2.86	1.90	ZGP323LSP2008C	
						Commercial	20-SOIC	269-3629-ND	3.24	2.43	1.65	ZGP323LSS2008C	
		24	2.0 ~ 5.5V	8	1/1	Extended	28-DIP	269-3519-ND	4.32	3.24	2.08	ZGP323HEP2808C	269-3399-ND, 269-3390-ND
						Extended	28-SSOP	269-3507-ND	3.78	2.84	1.84	ZGP323HEH2808C	
						Extended	28-SOIC	269-3531-ND	3.78	2.84	1.84	ZGP323HES2808C	
						Commercial	28-SSOP	269-3539-ND	3.66	2.75	1.80	ZGP323HSH2808C	
						Commercial	28-DIP	269-3554-ND	4.17	3.13	2.04	ZGP323HSP2808C	
						Commercial	28-SOIC	269-3566-ND	3.66	2.75	1.80	ZGP323HSS2808C	
		24	2.0 ~ 3.6V	8	1/1	Extended	28-SSOP	269-3574-ND	3.48	2.61	1.74	ZGP323LEH2808C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3586-ND	3.99	3.00	1.98	ZGP323LEP2808C	
						Extended	28-SOIC	269-3598-ND	3.48	2.61	1.74	ZGP323LES2808C	
						Commercial	28-SSOP	269-3606-ND	3.33	2.50	1.70	ZGP323LSH2808C	
						Commercial	28-DIP	269-3621-ND	3.87	2.91	1.94	ZGP323LSP2808C	
						Commercial	28-SOIC	269-3633-ND	3.33	2.50	1.70	ZGP323LSS2808C	
		32	2.0 ~ 5.5V	8	1/1	Extended	40-DIP	269-3523-ND	4.71	3.54	2.26	ZGP323HEP4008C	269-3399-ND, 269-3390-ND
						Commercial	40-DIP	269-3558-ND	4.59	3.45	2.22	ZGP323HSP4008C	
		32	2.0 ~ 3.6V	8	1/1	Extended	40-DIP	269-3590-ND	4.41	3.31	2.16	ZGP323LEP4008C	269-3399-ND, 269-3390-ND
						Commercial	40-DIP	269-3625-ND	4.29	3.22	2.12	ZGP323LSP4008C	
		32	2.0 ~ 5.5V	8	1/1	Extended	48-SSOP	269-3511-ND	3.81	2.86	1.85	ZGP323HEH4808C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3543-ND	3.66	2.75	1.81	ZGP323HSH4808C	
		32	2.0 ~ 3.6V	8	1/1	Extended	48-SSOP	269-3578-ND	3.48	2.61	1.75	ZGP323LEH4808C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3610-ND	3.36	2.52	1.71	ZGP323LSH4808C	
16K	237	16	2.0 ~ 5.5V	8	1/1	Extended	20-SSOP	269-3504-ND	3.84	2.88	1.84	ZGP323HEH2016C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3516-ND	4.35	3.27	2.09	ZGP323HEP2016C	
						Extended	20-SOIC	269-3528-ND	3.81	2.86	1.84	ZGP323HES2016C	
						Commercial	20-SSOP	269-3536-ND	3.69	2.77	1.79	ZGP323HSH2016C	
						Commercial	20-DIP	269-3551-ND	4.23	3.18	2.05	ZGP323HSP2016C	
						Commercial	20-SOIC	269-3563-ND	3.66	2.75	1.79	ZGP323HSS2016C	
		16	2.0 ~ 3.6V	8	1/1	Extended	20-SSOP	269-3571-ND	3.51	2.64	1.73	ZGP323LEH2016C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3583-ND	4.05	3.04	1.99	ZGP323LEP2016C	
						Extended	20-SOIC	269-3595-ND	3.48	2.61	1.73	ZGP323LES2016C	
						Commercial	20-SSOP	269-3603-ND	3.39	2.55	1.69	ZGP323LSH2016C	
						Commercial	20-DIP	269-3618-ND	3.93	2.95	1.95	ZGP323LSP2016C	
						Commercial	20-SOIC	269-3630-ND	3.36	2.52	1.69	ZGP323LSS2016C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	28-SSOP	269-3508-ND	3.90	2.93	1.89	ZGP323HEH2816C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3520-ND	4.44	3.33	2.13	ZGP323HEP2816C	
						Extended	28-SOIC	269-3532-ND	3.90	2.93	1.89	ZGP323HES2816C	
						Commercial	28-SSOP	269-3540-ND	3.78	2.84	1.84	ZGP323HSH2816C	
						Commercial	28-DIP	269-3555-ND	4.32	3.24	2.08	ZGP323HSP2816C	
						Commercial	28-SOIC	269-3567-ND	3.78	2.84	1.84	ZGP323HSS2816C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	28-SSOP	269-3575-ND	3.60	2.70	1.79	ZGP323LEH2816C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3587-ND	4.14	3.11	2.02	ZGP323LEP2816C	
						Extended	28-SOIC	269-3599-ND	3.60	2.70	1.79	ZGP323LES2816C	
						Commercial	28-SSOP	269-3607-ND	3.48	2.61	1.74	ZGP323LSH2816C	
						Commercial	28-DIP	269-3622-ND	3.99	3.00	1.98	ZGP323LSP2816C	
						Commercial	28-SOIC	269-3634-ND	3.48	2.61	1.74	ZGP323LSS2816C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	40-DIP	269-3524-ND	4.86	3.65	2.30	ZGP323HEP4016C	269-3399-ND, 269-3390-ND
						Commercial	40-DIP	269-3559-ND	4.71	3.54	2.26	ZGP323HSP4016C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	40-DIP	269-3591-ND	4.53	3.40	2.20	ZGP323LEP4016C	269-3399-ND, 269-3390-ND
						Commercial	40-DIP	269-3626-ND	4.41	3.31	2.16	ZGP323LSP4016C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	48-SSOP	269-3512-ND	3.93	2.95	1.90	ZGP323HEH4816C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3544-ND	3.81	2.86	1.85	ZGP323HSH4816C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	48-SSOP	269-3579-ND	3.63	2.73	1.79	ZGP323LEH4816C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3611-ND	3.48	2.61	1.75	ZGP323LSH4816C	
32K	237	16-32	2.0 ~ 5.5V	8	1/1	Extended	20-SSOP	269-3505-ND	3.93	2.95	1.88	ZGP323HEH2032C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3517-ND	4.50	3.38	2.13	ZGP323HEP2032C	
						Extended	20-SOIC	269-3529-ND	3.93	2.95	1.88	ZGP323HES2032C	
						Commercial	20-SSOP	269-3537-ND	3.81	2.86	1.84	ZGP323HSH2032C	
						Commercial	20-CDIP	269-3546-ND	25.50	19.13	11.05	ZGP323HSK2032E	
						Commercial	20-DIP	269-3552-ND	4.35	3.27	2.09	ZGP323HSP2032C	
						Commercial	20-SOIC	269-3564-ND	3.81	2.86	1.84	ZGP323HSS2032C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	20-SSOP	269-3572-ND	3.63	2.73	1.78	ZGP323LEH2032C	269-3399-ND, 269-3390-ND
						Extended	20-DIP	269-3584-ND	4.17	3.13	2.03	ZGP323LEP2032C	
						Extended	20-SOIC	269-3596-ND	3.63	2.73	1.78	ZGP323LES2032C	
						Commercial	20-SSOP	269-3604-ND	3.48	2.61	1.73	ZGP323LSH2032C	
						Commercial	20-CDIP	269-3613-ND	25.50	19.13	11.05	ZGP323LSK2032E	
						Commercial	20-DIP	269-3619-ND	4.05	3.04	1.99	ZGP323LSP2032C	
						Commercial	20-SOIC	269-3631-ND	3.48	2.61	1.73	ZGP323LSS2032C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	28-SSOP	269-3509-ND	4.02	3.02	1.93	ZGP323HEH2832C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3521-ND	4.56	3.42	2.17	ZGP323HEP2832C	
						Extended	28-SOIC	269-3533-ND	4.02	3.02	1.93	ZGP323HES2832C	
						Commercial	28-SSOP	269-3541-ND	3.90	2.93	1.89	ZGP323HSH2832C	
						Commercial	28-CDIP	269-3547-ND	25.50	19.13	11.05	ZGP323HSK2832E	
						Commercial	28-DIP	269-3556-ND	4.44	3.33	2.13	ZGP323HSP2832C	
						Commercial	28-SOIC	269-3568-ND	3.90	2.93	1.89	ZGP323HSS2832C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	28-SSOP	269-3576-ND	3.72	2.79	1.83	ZGP323LEH2832C	269-3399-ND, 269-3390-ND
						Extended	28-DIP	269-3588-ND	4.26	3.20	2.07	ZGP323LEP2832C	
						Extended	28-SOIC	269-3600-ND	3.72	2.79	1.83	ZGP323LES2832C	
						Commercial	28-SSOP	269-3608-ND	3.60	2.70	1.79	ZGP323LSH2832C	
						Commercial	28-CDIP	269-3614-ND	25.50	19.13	11.05	ZGP323LSK2832E	
						Commercial	28-DIP	269-3623-ND	4.14	3.11	2.02	ZGP323LSP2832C	
						Commercial	28-SOIC	269-3635-ND	3.60	2.70	1.79	ZGP323LSS2832C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	40-DIP	269-3525-ND	4.98	3.74	2.35	ZGP323HEP4032C	269-3399-ND, 269-3390-ND
						Commercial	40-CDIP	269-3548-ND	25.50	19.13	11.05	ZGP323HSK4032E	
						Commercial	40-DIP	269-3560-ND	4.86	3.65	2.30	ZGP323HSP4032C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	40-DIP	269-3592-ND	4.68	3.51	2.24	ZGP323LEP4032C	269-3399-ND, 269-3390-ND
						Commercial	40-CDIP	269-3615-ND	25.50	19.13	11.05	ZGP323LSK4032E	
						Commercial	40-DIP	269-3627-ND	4.53	3.40	2.20	ZGP323LSP4032C	
		16-32	2.0 ~ 5.5V	8	1/1	Extended	48-SSOP	269-3513-ND	4.05	3.04	1.94	ZGP323HEH4832C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3545-ND	3.93	2.95	1.90	ZGP323HSH4832C	
		16-32	2.0 ~ 3.6V	8	1/1	Extended	48-SSOP	269-3580-ND	3.75	2.82	1.84	ZGP323LEH4832C	269-3399-ND, 269-3390-ND
						Commercial	48-SSOP	269-3612-ND	3.63	2.73	1.79	ZGP323LSH4832C	

Z8 Encore!® Flash Microcontrollers

Zilog redefines 8-bit with the new Z8 Encore! family of flash microcontrollers. Featuring flash memory and the high-performance register-to-register architecture, Z8 Encore! MCU accelerates design development while reducing total system cost. The same CPU core and peripheral interfaces ensure code compatibility across the entire family. Incorporate the Z8 Encore! into new designs or upgrade from the existing Z8 architecture. **Features:** • Program Memory Type: Flash • On-Chip Special Features: POR, VBO • WDT • COMM Interfaces: I2C, UART, OCD • Operating Temp.: Extended -40°C ~ 105°C, Commercial 0°C ~ 70°C

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.	Development Tools
1K	256	6	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3745-ND†	1.80	1.35	.91	Z8F0113PB005EG	269-3389-ND
								Commercial	8-DIP	269-3746-ND†	1.62	1.22	.82	Z8F0113PB005SG	
								Extended	8-MLF	269-3747-ND†	2.13	1.60	1.06	Z8F0113QB005EG	
								Commercial	8-MLF	269-3748-ND†	1.92	1.44	.95	Z8F0113QB005SG	
								Extended	8-SOIC	269-3749-ND†	1.71	1.29	.86	Z8F0113SB005EG	
								Commercial	8-SOIC	269-3750-ND†	1.56	1.17	.77	Z8F0113SB005SG	
		16	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3430-ND	3.00	2.25	1.43	Z8F0113HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3431-ND	2.85	2.14	1.36	Z8F0113HH005SC	
								Extended	20-DIP	269-3434-ND	3.36	2.52	1.60	Z8F0113PH005EC	
								Commercial	20-DIP	269-3435-ND	3.18	2.39	1.52	Z8F0113PH005SC	
								Extended	20-SOIC	269-3438-ND	3.00	2.25	1.43	Z8F0113SH005EC	
								Commercial	20-SOIC	269-3439-ND	2.85	2.14	1.36	Z8F0113SH005SC	
		24	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3432-ND	3.12	2.34	1.48	Z8F0113HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3433-ND	2.97	2.23	1.41	Z8F0113HJ005SC	
								Extended	28-DIP	269-3436-ND	3.57	2.68	1.69	Z8F0113PJ005EC	
								Commercial	28-DIP	269-3437-ND	3.39	2.55	1.61	Z8F0113PJ005SC	
								Extended	28-SOIC	269-3440-ND	3.12	2.34	1.48	Z8F0113SJ005EC	
								Commercial	28-SOIC	269-3441-ND	2.97	2.23	1.41	Z8F0113SJ005SC	
		6	UART	4-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3753-ND†	1.89	1.42	.95	Z8F0123PB005EG	269-3389-ND
								Commercial	8-DIP	269-3754-ND†	1.71	1.29	.85	Z8F0123PB005SG	
								Extended	8-MLF	269-3755-ND†	2.19	1.65	1.10	Z8F0123QB005EG	
								Commercial	8-MLF	269-3756-ND†	1.98	1.49	.99	Z8F0123QB005SG	
								Extended	8-SOIC	269-3757-ND†	1.80	1.35	.90	Z8F0123SB005EG	
								Commercial	8-SOIC	269-3758-ND†	1.62	1.22	.81	Z8F0123SB005SG	
		16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3442-ND	3.12	2.34	1.50	Z8F0123HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3443-ND	3.00	2.25	1.43	Z8F0123HH005SC	
								Extended	20-DIP	269-3446-ND	3.51	2.64	1.67	Z8F0123PH005EC	
								Commercial	20-DIP	269-3447-ND	3.33	2.50	1.59	Z8F0123PH005SC	
								Extended	20-SOIC	269-3450-ND	3.15	2.37	1.50	Z8F0123SH005EC	
								Commercial	20-SOIC	269-3451-ND	3.00	2.25	1.43	Z8F0123SH005SC	
		22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3444-ND	3.27	2.46	1.55	Z8F0123HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3445-ND	3.12	2.34	1.48	Z8F0123HJ005SC	
								Extended	28-DIP	269-3448-ND	3.69	2.77	1.77	Z8F0123PJ005EC	
								Commercial	28-DIP	269-3449-ND	3.54	2.66	1.68	Z8F0123PJ005SC	
								Extended	28-SOIC	269-3452-ND	3.27	2.46	1.55	Z8F0123SJ005EC	
								Commercial	28-SOIC	269-3453-ND	3.12	2.34	1.48	Z8F0123SJ005SC	
2K	512	6	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3761-ND†	1.92	1.44	.95	Z8F0213PB005EG	269-3389-ND
								Commercial	8-DIP	269-3762-ND†	1.71	1.29	.86	Z8F0213PB005SG	
								Extended	8-MLF	269-3763-ND†	2.22	1.67	1.11	Z8F0213QB005EG	
								Commercial	8-MLF	269-3764-ND†	2.01	1.51	1.00	Z8F0213QB005SG	
								Extended	8-SOIC	269-3765-ND†	1.80	1.35	.90	Z8F0213SB005EG	
								Commercial	8-SOIC	269-3766-ND†	1.62	1.22	.74	Z8F0213SB005SG	
		16	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3454-ND	3.18	2.39	1.51	Z8F0213HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3455-ND	3.00	2.25	1.44	Z8F0213HH005SC	
								Extended	20-DIP	269-3458-ND	3.54	2.66	1.68	Z8F0213PH005EC	
								Commercial	20-DIP	269-3459-ND	3.36	2.52	1.60	Z8F0213PH005SC	
								Extended	20-SOIC	269-3462-ND	3.18	2.39	1.51	Z8F0213SH005EC	
								Commercial	20-SOIC	269-3463-ND	3.00	2.25	1.44	Z8F0213SH005SC	
		24	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3456-ND	3.27	2.46	1.56	Z8F0213HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3457-ND	3.12	2.34	1.48	Z8F0213HJ005SC	
								Extended	28-DIP	269-3460-ND	3.75	2.82	1.78	Z8F0213PJ005EC	
								Commercial	28-DIP	269-3461-ND	3.57	2.68	1.70	Z8F0213PJ005SC	
								Extended	28-SOIC	269-3464-ND	3.27	2.46	1.56	Z8F0213SJ005EC	
								Commercial	28-SOIC	269-3465-ND	3.12	2.34	1.48	Z8F0213SJ005SC	
		6	UART	4-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3769-ND†	2.01	1.51	1.00	Z8F0223PB005EG	269-3389-ND
								Commercial	8-DIP	269-3770-ND†	1.80	1.35	.90	Z8F0223PB005SG	
								Extended	8-MLF	269-3771-ND†	2.31	1.74	1.16	Z8F0223QB005EG	
								Commercial	8-MLF	269-3772-ND†	2.10	1.58	1.04	Z8F0223QB005SG	
								Extended	8-SOIC	269-3773-ND†	1.89	1.42	.95	Z8F0223SB005EG	
								Commercial	8-SOIC	269-3774-ND†	1.71	1.29	.85	Z8F0223SB005SG	
		16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3466-ND	3.33	2.50	1.58	Z8F0223HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3467-ND	3.18	2.39	1.51	Z8F0223HH005SC	
								Extended	20-DIP	269-3470-ND	3.69	2.77	1.75	Z8F0223PH005EC	
								Commercial	20-DIP	269-3471-ND	3.51	2.64	1.67	Z8F0223PH005SC	
								Extended	20-SOIC	269-3474-ND	3.33	2.50	1.58	Z8F0223SH005EC	
								Commercial	20-SOIC	269-3475-ND	3.18	2.39	1.51	Z8F0223SH005SC	
		22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3468-ND	3.42	2.57	1.63	Z8F0223HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3469-ND	3.27	2.46	1.56	Z8F0223HJ005SC	
								Extended	28-DIP	269-3472-ND	3.90	2.93	1.86	Z8F0223PJ005EC	
								Commercial	28-DIP	269-3473-ND	3.72	2.79	1.77	Z8F0223PJ005SC	
								Extended	28-SOIC	269-3476-ND	3.42	2.57	1.63	Z8F0223SJ005EC	
								Commercial	28-SOIC	269-3477-ND	3.27	2.46	1.56	Z8F0223SJ005SC	

† RoHS Compliant

(Continued)

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
											1	25	100		
4K	1K	11	UART, I^{2}C, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3208-ND	3.60	2.70	1.72	Z8F0411PH020EC	269-3183-ND
								Commercial	20-DIP	269-3209-ND	3.42	2.57	1.64	Z8F0411PH020SC	
								Extended	20-SSOP	269-3206-ND	3.21	2.41	1.53	Z8F0411HH020EC	
								Commercial	20-SSOP	269-3207-ND	3.06	2.30	1.45	Z8F0411HH020SC	
		19	UART, I^{2}C, SPI, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-3210-ND	3.84	2.88	1.83	Z8F0412PJ020EC	269-3183-ND
								Commercial	28-DIP	269-3211-ND	3.66	2.75	1.74	Z8F0412PJ020SC	
								Extended	28-SOIC	269-3212-ND	3.33	2.50	1.58	Z8F0412SJ020EC	
								Commercial	28-SOIC	269-3213-ND	3.18	2.39	1.51	Z8F0412SJ020SC	
		6	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3777-ND†	2.01	1.51	1.00	Z8F0413PB005EG	269-3389-ND
								Commercial	8-DIP	269-3778-ND†	1.80	1.35	.90	Z8F0413PB005SG	
								Extended	8-MLF	269-3779-ND†	2.34	1.76	1.17	Z8F0413QB005EG	
								Commercial	8-MLF	269-3780-ND†	2.10	1.58	1.06	Z8F0413QB005SG	
								Extended	8-SOIC	269-3781-ND†	1.89	1.42	.95	Z8F0413SB005EG	
								Commercial	8-SOIC	269-3782-ND†	1.71	1.29	.86	Z8F0413SB005SG	
		16	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3478-ND	3.33	2.50	1.59	Z8F0413HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3479-ND	3.18	2.39	1.51	Z8F0413HH005SC	
								Extended	20-DIP	269-3482-ND	3.72	2.79	1.77	Z8F0413PH005EC	
								Commercial	20-DIP	269-3483-ND	3.54	2.66	1.68	Z8F0413PH005SC	
								Extended	20-SOIC	269-3486-ND	3.33	2.50	1.59	Z8F0413SH005EC	
								Commercial	20-SOIC	269-3487-ND	3.18	2.39	1.51	Z8F0413SH005SC	
		24	1 UART, IrDA	—	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3480-ND	3.45	2.59	1.64	Z8F0413HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3481-ND	3.27	2.46	1.56	Z8F0413HJ005SC	
								Extended	28-DIP	269-3484-ND	3.93	2.95	1.88	Z8F0413PJ005EC	
								Commercial	28-DIP	269-3485-ND	3.75	2.82	1.79	Z8F0413PJ005SC	
								Extended	28-SOIC	269-3488-ND	3.45	2.59	1.64	Z8F0413SJ005EC	
								Commercial	28-SOIC	269-3489-ND	3.27	2.46	1.56	Z8F0413SJ005SC	
		11	UART, I^{2}C, IrDA	2-ch. 10-bit	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3216-ND	3.78	2.84	1.79	Z8F0421PH020EC	269-3183-ND
								Commercial	20-DIP	269-3217-ND	3.60	2.70	1.71	Z8F0421PH020SC	
								Extended	20-SSOP	269-3214-ND	3.36	2.52	1.60	Z8F0421HH020EC	
								Commercial	20-SSOP	269-3215-ND	3.21	2.41	1.53	Z8F0421HH020SC	
		19	UART, I^{2}C, SPI, IrDA	5-ch. 10-bit	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-3218-ND	4.02	3.02	1.91	Z8F0422PJ020EC	269-3183-ND
								Commercial	28-DIP	269-3219-ND	3.81	2.86	1.82	Z8F0422PJ020SC	
								Extended	28-SOIC	269-3220-ND	3.48	2.61	1.66	Z8F0422SJ020EC	
								Commercial	28-SOIC	269-3221-ND	3.33	2.50	1.58	Z8F0422SJ020SC	
		6	UART	4-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3785-ND†	2.10	1.58	1.05	Z8F0423PB005EG	269-3389-ND
								Commercial	8-DIP	269-3731-ND†	1.89	1.42	.95	Z8F0423PB005SG	
								Extended	8-MLF	269-3786-ND†	2.43	1.83	1.22	Z8F0423QB005EG	
								Commercial	8-MLF	269-3787-ND†	2.19	1.65	1.10	Z8F0423QB005SG	
								Extended	8-SOIC	269-3788-ND†	2.01	1.51	1.00	Z8F0423SB005EG	
								Commercial	8-SOIC	269-3732-ND†	1.80	1.35	.90	Z8F0423SB005SG	
		16	1 UART, IrDA	7-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3490-ND	3.51	2.64	1.67	Z8F0423HH005EC	269-3389-ND
								Commercial	20-SSOP	269-3491-ND	3.33	2.50	1.59	Z8F0423HH005SC	
								Extended	20-DIP	269-3494-ND	3.87	2.91	1.85	Z8F0423PH005EC	
								Commercial	20-DIP	269-3495-ND	3.69	2.77	1.76	Z8F0423PH005SC	
								Extended	20-SOIC	269-3498-ND	3.51	2.64	1.67	Z8F0423SH005EC	
								Commercial	20-SOIC	269-3499-ND	3.33	2.50	1.59	Z8F0423SH005SC	
		22	1 UART, IrDA	8-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3492-ND	3.60	2.70	1.72	Z8F0423HJ005EC	269-3389-ND
								Commercial	28-SSOP	269-3493-ND	3.45	2.59	1.64	Z8F0423HJ005SC	
								Extended	28-DIP	269-3496-ND	4.11	3.09	1.96	Z8F0423PJ005EC	
								Commercial	28-DIP	269-3497-ND	3.90	2.93	1.86	Z8F0423PJ005SC	
								Extended	28-SOIC	269-3500-ND	3.60	2.70	1.72	Z8F0423SJ005EC	
								Commercial	28-SOIC	269-3501-ND	3.45	2.59	1.64	Z8F0423SJ005SC	
8K	1K	11	UART, I^{2}C, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3224-ND	4.38	3.29	2.08	Z8F0811PH020EC	269-3183-ND
								Commercial	20-DIP	269-3225-ND	4.17	3.13	1.98	Z8F0811PH020SC	
								Extended	20-SSOP	269-3222-ND	3.96	2.97	1.89	Z8F0811HH020EC	
								Commercial	20-SSOP	269-3223-ND	3.78	2.84	1.80	Z8F0811HH020SC	
		19	UART, I^{2}C, SPI, IrDA	—	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-3226-ND	4.62	3.47	2.19	Z8F0812PJ020EC	269-3183-ND
								Commercial	28-DIP	269-3227-ND	4.38	3.29	2.09	Z8F0812PJ020SC	
								Extended	28-SOIC	269-3228-ND	4.08	3.06	1.94	Z8F0812SJ020EC	
								Commercial	28-SOIC	269-3229-ND	3.90	2.93	1.85	Z8F0812SJ020SC	
		6	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3791-ND†	2.25	1.69	1.12	Z8F0813PB005EG	269-3686-ND
								Commercial	8-DIP	269-3792-ND†	2.01	1.51	1.01	Z8F0813PB005SG	
								Extended	8-MLF	269-3793-ND†	2.58	1.94	1.29	Z8F0813QB005EG	
								Commercial	8-MLF	269-3794-ND†	2.31	1.74	1.16	Z8F0813QB005SG	
								Extended	8-SOIC	269-3795-ND†	2.13	1.60	1.07	Z8F0813SB005EG	
								Commercial	8-SOIC	269-3796-ND†	1.92	1.44	.96	Z8F0813SB005SG	
		16	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3713-ND	3.03	2.28	1.53	Z8F0813HH005EC	269-3686-ND
								Commercial	20-SSOP	269-3714-ND	2.73	2.05	1.38	Z8F0813HH005SC	
								Extended	20-DIP	269-3717-ND	3.57	2.68	1.78	Z8F0813PH005EC	
								Commercial	20-DIP	269-3718-ND	3.21	2.41	1.62	Z8F0813PH005SC	
								Extended	20-SOIC	269-3721-ND	3.00	2.25	1.50	Z8F0813SH005EC	
								Commercial	20-SOIC	269-3722-ND	2.70	2.03	1.35	Z8F0813SH005SC	
		24	UART	—	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3715-ND	3.15	2.37	1.58	Z8F0813HJ005EC	269-3686-ND
								Commercial	28-SSOP	269-3716-ND	2.85	2.14	1.43	Z8F0813HJ005SC	
								Extended	28-DIP	269-3719-ND	3.72	2.79	1.88	Z8F0813PJ005EC	
								Commercial	28-DIP	269-3720-ND	3.36	2.52	1.68	Z8F0813PJ005SC	
								Extended	28-SOIC	269-3723-ND	3.09	2.32	1.56	Z8F0813SJ005EC	
								Commercial	28-SOIC	269-3724-ND	2.79	2.10	1.40	Z8F0813SJ005SC	
		11	UART, I^{2}C, IrDA	2-ch. 10-bit	2.7 ~ 3.6V	20MHz	2	Extended	20-DIP	269-3232-ND	4.56	3.42	2.17	Z8F0821PH020EC	269-3183-ND
								Commercial	20-DIP	269-3233-ND	4.35	3.27	2.07	Z8F0821PH020SC	
								Extended	20-SSOP	269-3230-ND	4.17	3.13	1.98	Z8F0821HH020EC	
								Commercial	20-SSOP	269-3231-ND	3.96	2.97	1.89	Z8F0821HH020SC	
		19	UART, I^{2}C, SPI, IrDA	5-ch. 10-bit	2.7 ~ 3.6V	20MHz	2	Extended	28-DIP	269-3234-ND	4.80	3.60	2.29	Z8F0822PJ020EC	269-3183-ND
								Commercial	28-DIP	269-3235-ND	4.59	3.45	2.18	Z8F0822PJ020SC	
								Extended	28-SOIC	269-3236-ND	4.29	3.22	2.04	Z8F0822SJ020EC	
								Commercial	28-SOIC	269-3237-ND	4.08	3.06	1.94	Z8F0822SJ020SC	
		6	UART	4-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	8-DIP	269-3803-ND†	2.34	1.76	1.17	Z8F0823PB005EG	269-3686-ND
								Commercial	8-DIP	269-3733-ND†	2.10	1.58	1.06	Z8F0823PB005SG	
								Extended	8-MLF	269-3804-ND†	2.67	2.01	1.34	Z8F0823QB005EG	
								Commercial	8-MLF	269-3805-ND†	2.43	1.83	1.21	Z8F0823QB005SG	
								Extended	8-SOIC	269-3806-ND†	2.25	1.69	1.12	Z8F0823SB005EG	
								Commercial	8-SOIC	269-3734-ND†	2.01	1.51	1.01	Z8F0823SB005SG	
		16	UART	7-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	20-SSOP	269-3725-ND	3.18	2.39	1.60	Z8F0823HH005EC	269-3686-ND
								Commercial	20-SSOP	269-3687-ND	2.85	2.14	1.42	Z8F0823HH005SC	
								Extended	20-DIP	269-3727-ND	3.72	2.79	1.86	Z8F0823PH005EC	
								Commercial	20-DIP	269-3689-ND	3.36	2.52	1.68	Z8F0823PH005SC	
								Extended	20-SOIC	269-3729-ND	3.15	2.37	1.57	Z8F0823SH005EC	
								Commercial	20-SOIC	269-3691-ND	2.82	2.12	1.42	Z8F0823SH005SC	
		22	UART	8-ch. 10-bit	2.7 ~ 3.6V	5MHz	2	Extended	28-SSOP	269-3726-ND	3.30	2.48	1.66	Z8F0823HJ005EC	269-3686-ND
								Commercial	28-SSOP	269-3688-ND	2.97	2.23	1.49	Z8F0823HJ005SC	
								Extended	28-DIP	269-3728-ND	3.87	2.91	1.95	Z8F0823PJ005EC	
								Commercial	28-DIP	269-3690-ND	3.48	2.61	1.75	Z8F0823PJ005SC	
								Extended	28-SOIC	269-3730-ND	3.24	2.43	1.63	Z8F0823SJ005EC	
								Commercial	28-SOIC	269-3692-ND	2.91	2.19	1.45	Z8F0823SJ005SC	

† RoHS Compliant

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Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
											1	25	100		
16K	2K	31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Commercial Extended Commercial	40-DIP 44-PLCC 44-LQFP	269-3128-ND 269-3195-ND 269-3127-ND	11.55 12.69 11.49	8.67 9.52 8.62	6.41 7.05 6.38	Z8F1601PM020SC Z8F1601VN020EC Z8F1601AN020SC	—
		31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Commerical Extended Commercial	40-DIP 44-LQFP 44-LQFP	269-3256-ND 269-3253-ND 269-3254-ND	6.39 6.84 6.18	4.80 5.13 4.64	3.19 3.43 3.08	Z8F162PM020SC Z8F1621AN020EC Z8F1621AN020SC	269-3249-ND
		46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended Commercial Commercial	64-LQFP 64-LQFP 64-LQFP	269-3259-ND 269-3260-ND 269-3640-ND	7.65 6.87 6.87	5.74 5.16 5.16	3.82 3.44 3.44	Z8F1622AR020EC Z8F1622AR020SC Z8F1622AR020SC2104	269-3249-ND
24K	2K	31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Commercial Commercial	40-DIP 44-LQFP	269-3266-ND 269-3264-ND	7.41 7.20	5.56 5.40	3.71 3.60	Z8F2421PM020SC Z8F2421AN020SC	269-3249-ND
32K	2K	46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Commercial	64-LQFP	269-3140-ND	14.64	10.98	8.14	Z8F3202AR020SC	—
		46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended Commercial	64-LQFP 64-LQFP	269-3279-ND 269-3280-ND	10.20 9.18	7.65 6.89	5.09 4.58	Z8F3222AR020EC Z8F3222AR020SC	269-3249-ND
48K	4K	46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Commercial	64-LQFP	269-3145-ND	16.44	12.33	9.13	Z8F4802AR020SC	—
		31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Extended	44-LQFP	269-3283-ND	10.44	7.83	5.21	Z8F4821AN020EC	269-3249-ND
		46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Commercial	64-LQFP	269-3290-ND	10.08	7.56	5.05	Z8F4822AR020SC	269-3249-ND
		60	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Commercial	80-QFP	269-3294-ND	10.38	7.79	5.18	Z8F4823FT020SC	269-3249-ND
64K	4K	31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Commercial Commercial Extended	40-DIP 44-PLCC 44-LQFP	269-3149-ND 269-3150-ND 269-3181-ND	17.76 17.76 19.44	13.32 13.32 14.58	9.86 9.86 10.80	Z8F6401PM020SC Z8F6401VN020SC Z8F6401AN020EC	—
		46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended Commercial	64-LQFP 68-PLCC	269-3203-ND 269-3152-ND	20.01 18.33	15.01 13.75	11.12 10.18	Z8F6402AR020EC Z8F6402VS020SC	—
		31	2 UARTS, I^2C, SPI, IrDA	8-ch. 10-bit	3.0 ~ 3.6V	20MHz	3	Commercial Extended Commercial	44-PLCC 44-LQFP 44-LQFP	269-3300-ND 269-3295-ND 269-3296-ND	10.26 11.58 10.41	7.70 8.69 7.81	5.12 5.79 5.21	Z8F6421VN020SC Z8F6421AN020EC Z8F6421AN020SC	269-3249-ND
		46	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended Commercial Commercial Extended Commercial	64-LQFP 64-LQFP 64-LQFP 68-PLCC 68-PLCC	269-3301-ND 269-3302-ND 269-3641-ND 269-3303-ND 269-3304-ND	12.36 11.13 11.13 12.48 11.22	9.27 8.35 8.35 9.36 8.42	6.18 5.57 5.57 6.24 5.62	Z8F6422AR020EC Z8F6422AR020SC Z8F6422AR020SC2104 Z8F6422VS020EC Z8F6422VS020SC	269-3249-ND
		60	2 UARTS, I^2C, SPI, IrDA	12-ch. 10-bit	3.0 ~ 3.6V	20MHz	4	Extended Commercial	80-QFP 80-QFP	269-3305-ND 269-3306-ND	12.66 11.40	9.50 8.55	6.33 5.70	Z8F6423FT020EC Z8F6423FT020SC	269-3249-ND

† RoHS Compliant

Z8 Encore! XP® Flash Microcontrollers 4K Series

The Z8 Encore!® MCU family of products are the first in a line of ZiLOG microcontroller products based upon the 8-bit eZ8 CPU. The Z8 Encore! XP 4K Series products expand upon ZiLOG's extensive line of 8-bit microcontrollers. The Flash in-circuit programming capability allows for faster development time and program changes in the field. The new eZ8 CPU is upward compatible with existing Z8 instructions. The rich peripheral set of the Z8 Encore! family makes it suitable for a variety of applications including motor control, security systems, home appliances, personal electronic devices and sensors.

Features:

- Program Memory Type: Flash
- On-Chip Special Features: POR, VBO, Temperature Sensor, Analog Comparator, Current Sense Amplifier, Up to 18 vectored interrupts
- WDT
- COMM Interfaces: UART, OCD
- Operating Temperature: Extended -40°C ~ 105° C, Commercial 0°C ~ 70°C

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	NVDS (Bytes)	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
												1	25	100		
1K	256	6	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended Commercial Extended Commercial Extended Commercial	8-DIP 8-DIP 8-MLF 8-MLF 8-SOIC 8-SOIC	269-3642-ND 269-3643-ND 269-3751-ND† 269-3752-ND† 269-3646-ND 269-3647-ND	2.58 2.34 2.91 2.61 2.49 2.25	2.37 2.15 2.19 1.96 2.29 2.07	1.30 1.17 1.45 1.30 1.25 1.12	Z8F011APB020EC Z8F011APB020SC Z8F011AQB020EG Z8F011AQB020SG Z8F011ASB020EC Z8F011ASB020SC	269-3307-ND, 269-3638-ND
		17	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended Commercial Extended Commercial Extended Commercial	20-SSOP 20-SSOP 20-DIP 20-DIP 20-SOIC 20-SOIC	269-3308-ND 269-3309-ND 269-3312-ND 269-3313-ND 269-3316-ND 269-3317-ND	3.18 3.03 3.54 3.36 3.18 3.03	2.65 2.53 2.95 2.80 2.65 2.53	1.51 1.44 1.69 1.61 1.51 1.44	Z8F011AHH020EC Z8F011AHH020SC Z8F011APH020EC Z8F011APH020SC Z8F011ASH020EC Z8F011ASH020SC	269-3307-ND, 269-3638-ND
		25	16	UART	—	2.7 ~ 3.6	20MHz	2	Extended Commercial Extended Commercial Extended Commercial	28-SSOP 28-SSOP 28-DIP 28-DIP 28-SOIC 28-SOIC	269-3310-ND 269-3311-ND 269-3314-ND 269-3315-ND 269-3318-ND 269-3319-ND	3.30 3.12 3.75 3.57 3.30 3.12	2.75 2.60 3.13 2.98 2.75 2.60	1.57 1.49 1.79 1.71 1.57 1.49	Z8F011AHJ020EC Z8F011AHJ020SC Z8F011APJ020EC Z8F011APJ020SC Z8F011ASJ020EC Z8F011ASJ020SC	269-3307-ND, 269-3638-ND
		6	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended Commercial Extended Commercial Extended Commercial	8-DIP 8-DIP 8-MLF 8-MLF 8-SOIC 8-SOIC	269-3648-ND 269-3649-ND 269-3759-ND† 269-3760-ND† 269-3652-ND 269-3653-ND	2.73 2.46 3.03 2.73 2.61 2.37	2.51 2.26 2.28 2.05 2.40 2.18	1.36 1.22 1.51 1.36 1.31 1.18	Z8F012APB020EC Z8F012APB020SC Z8F012AQB020EG Z8F012AQB020SG Z8F012ASB020EC Z8F012ASB020SC	269-3307-ND, 269-3638-ND
		17	16	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended Commercial Extended Commercial Extended Commercial	20-SSOP 20-SSOP 20-DIP 20-DIP 20-SOIC 20-SOIC	269-3320-ND 269-3321-ND 269-3324-ND 269-3325-ND 269-3328-ND 269-3329-ND	3.30 3.18 3.69 3.54 3.33 3.18	2.75 2.65 3.08 2.95 2.78 2.65	1.59 1.51 1.76 1.68 1.59 1.51	Z8F012AHH020EC Z8F012AHH020SC Z8F012APH020EC Z8F012APH020SC Z8F012ASH020EC Z8F012ASH020SC	269-3307-ND, 269-3638-ND
		23	16	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended Commercial Extended Commercial Extended Commercial	28-SSOP 28-SSOP 28-DIP 28-DIP 28-SOIC 28-SOIC	269-3322-ND 269-3323-ND 269-3326-ND 269-3327-ND 269-3330-ND 269-3331-ND	3.45 3.27 3.90 3.72 3.45 3.27	2.88 2.73 3.25 3.10 2.88 2.73	1.64 1.56 1.87 1.78 1.64 1.56	Z8F012AHJ020EC Z8F012AHJ020SC Z8F012APJ020EC Z8F012APJ020SC Z8F012ASJ020EC Z8F012ASJ020SC	269-3307-ND, 269-3638-ND
2K	512	6	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended Commercial Extended Commercial Extended Commercial	8-DIP 8-DIP 8-MLF 8-MLF 8-SOIC 8-SOIC	269-3654-ND 269-3655-ND 269-3767-ND† 269-3768-ND† 269-3658-ND 269-3659-ND	2.73 2.46 3.06 2.76 2.64 2.37	2.51 2.26 2.30 2.07 2.42 2.18	1.37 1.23 1.53 1.37 1.32 1.18	Z8F021APB020EC Z8F021APB020SC Z8F021AQB020EG Z8F021AQB020SG Z8F021ASB020EC Z8F021ASB020SC	269-3307-ND, 269-3638-ND

† RoHS Compliant

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Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	NVDS (Bytes)	Serial Communication	ADC	VCC	Clock Speed	Timer/ Counters (16-bit)	Operating Temp.	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Zilog Part No.	Development Tools
2K	512	17	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3332-ND	3.36	2.80	1.59	Z8F021AHH020EC	269-3307-ND, 269-3638-ND
									Commercial	20-SSOP	269-3333-ND	3.18	2.65	1.52	Z8F021AHH020SC	
									Extended	20-DIP	269-3336-ND	3.72	3.10	1.78	Z8F021APH020EC	
									Commercial	20-DIP	269-3337-ND	3.54	2.95	1.69	Z8F021APH020SC	
									Extended	20-SOIC	269-3340-ND	3.36	2.80	1.59	Z8F021ASH020EC	
									Commercial	20-SOIC	269-3341-ND	3.18	2.65	1.52	Z8F021ASH020SC	
		25	64	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3334-ND	3.45	2.88	1.65	Z8F021AHJ020EC	269-3307-ND, 269-3638-ND
									Commercial	28-SSOP	269-3335-ND	3.30	2.75	1.57	Z8F021AHJ020SC	
									Extended	28-DIP	269-3338-ND	3.96	3.30	1.89	Z8F021APJ020EC	
									Commercial	28-DIP	269-3339-ND	3.78	3.15	1.80	Z8F021APJ020SC	
									Extended	28-SOIC	269-3342-ND	3.45	2.88	1.65	Z8F021ASJ020EC	
									Commercial	28-SOIC	269-3343-ND	3.30	2.75	1.57	Z8F021ASJ020SC	
		6	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3660-ND	2.85	2.62	1.43	Z8F022APB020EC	269-3307-ND, 269-3638-ND
									Commercial	8-DIP	269-3661-ND	2.58	2.37	1.29	Z8F022APB020SC	
									Extended	8-MLF	269-3775-ND†	3.18	2.39	1.59	Z8F022AQB020EG	
									Commercial	8-MLF	269-3776-ND†	2.85	2.14	1.43	Z8F022AQB020SG	
									Extended	8-SOIC	269-3664-ND	2.76	2.53	1.38	Z8F022ASB020EC	
									Commercial	8-SOIC	269-3665-ND	2.49	2.29	1.24	Z8F022ASB020SC	
		17	64	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3344-ND	3.51	2.93	1.67	Z8F022AHH020EC	269-3307-ND, 269-3638-ND
									Commercial	20-SSOP	269-3345-ND	3.36	2.80	1.59	Z8F022AHH020SC	
									Extended	20-DIP	269-3348-ND	3.90	3.25	1.86	Z8F022APH020EC	
									Commercial	20-DIP	269-3349-ND	3.72	3.10	1.77	Z8F022APH020SC	
									Extended	20-SOIC	269-3352-ND	3.51	2.93	1.67	Z8F022ASH020EC	
									Commercial	20-SOIC	269-3353-ND	3.36	2.80	1.59	Z8F022ASH020SC	
		23	64	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3346-ND	3.63	3.03	1.73	Z8F022AHJ020EC	269-3307-ND, 269-3638-ND
									Commercial	28-SSOP	269-3347-ND	3.45	2.88	1.65	Z8F022AHJ020SC	
									Extended	28-DIP	269-3350-ND	4.14	3.45	1.97	Z8F022APJ020EC	
									Commercial	28-DIP	269-3351-ND	3.93	3.28	1.87	Z8F022APJ020SC	
									Extended	28-SOIC	269-3354-ND	3.63	3.03	1.73	Z8F022ASJ020EC	
									Commercial	28-SOIC	269-3355-ND	3.45	2.88	1.65	Z8F022ASJ020SC	
4K	1K	6	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3666-ND	2.88	2.64	1.44	Z8F041APB020EC	269-3307-ND, 269-3638-ND
									Commercial	8-DIP	269-3667-ND	2.58	2.37	1.29	Z8F041APB020SC	
									Extended	8-MLF	269-3783-ND†	3.21	2.41	1.61	Z8F041AQB020EG	
									Commercial	8-MLF	269-3784-ND†	2.88	2.16	1.45	Z8F041AQB020SG	
									Extended	8-SOIC	269-3670-ND	2.76	2.53	1.38	Z8F041ASB020EC	
									Commercial	8-SOIC	269-3671-ND	2.49	2.29	1.25	Z8F041ASB020SC	
		17	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3356-ND	3.51	2.93	1.68	Z8F041AHH020EC	269-3307-ND, 269-3638-ND
									Commercial	20-SSOP	269-3357-ND	3.36	2.80	1.60	Z8F041AHH020SC	
									Extended	20-DIP	269-3360-ND	3.93	3.28	1.87	Z8F041APH020EC	
									Commercial	20-DIP	269-3361-ND	3.75	3.13	1.78	Z8F041APH020SC	
									Extended	20-SOIC	269-3364-ND	3.51	2.93	1.68	Z8F041ASH020EC	
									Commercial	20-SOIC	269-3365-ND	3.36	2.80	1.60	Z8F041ASH020SC	
		25	128	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3358-ND	3.63	3.03	1.74	Z8F041AHJ020EC	269-3307-ND, 269-3638-ND
									Commercial	28-SSOP	269-3359-ND	3.48	2.90	1.65	Z8F041AHJ020SC	
									Extended	28-DIP	269-3362-ND	4.17	3.48	1.98	Z8F041APJ020EC	
									Commercial	28-DIP	269-3363-ND	3.96	3.30	1.89	Z8F041APJ020SC	
									Extended	28-SOIC	269-3366-ND	3.63	3.03	1.74	Z8F041ASJ020EC	
									Commercial	28-SOIC	269-3367-ND	3.48	2.90	1.65	Z8F041ASJ020SC	
		6	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3672-ND	3.00	2.75	1.51	Z8F042APB020EC	269-3307-ND, 269-3638-ND
									Commercial	8-DIP	269-3673-ND	2.70	2.48	1.36	Z8F042APB020SC	
									Extended	8-MLF	269-3789-ND†	3.36	2.52	1.67	Z8F042AQB020EG	
									Commercial	8-MLF	269-3790-ND†	3.00	2.25	1.51	Z8F042AQB020SG	
									Extended	8-SOIC	269-3676-ND	2.91	2.67	1.45	Z8F042ASB020EC	
									Commercial	8-SOIC	269-3677-ND	2.61	2.40	1.31	Z8F042ASB020SC	
		17	128	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3368-ND	3.69	3.08	1.76	Z8F042AHH020EC	269-3307-ND, 269-3638-ND
									Commercial	20-SSOP	269-3369-ND	3.51	2.93	1.68	Z8F042AHH020SC	
									Extended	20-DIP	269-3372-ND	4.11	3.43	1.95	Z8F042APH020EC	
									Commercial	20-DIP	269-3373-ND	3.90	3.25	1.86	Z8F042APH020SC	
									Extended	20-SOIC	269-3376-ND	3.69	3.08	1.76	Z8F042ASH020EC	
									Commercial	20-SOIC	269-3377-ND	3.51	2.93	1.68	Z8F042ASH020SC	
		23	128	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3370-ND	3.81	3.18	1.82	Z8F042AHJ020EC	269-3307-ND, 269-3638-ND
									Commercial	28-SSOP	269-3371-ND	3.63	3.03	1.73	Z8F042AHJ020SC	
									Extended	28-DIP	269-3374-ND	4.35	3.63	2.07	Z8F042APJ020EC	
									Commercial	28-DIP	269-3375-ND	4.14	3.45	1.97	Z8F042APJ020SC	
									Extended	28-SOIC	269-3378-ND	3.81	3.18	1.82	Z8F042ASJ020EC	
									Commercial	28-SOIC	269-3379-ND	3.63	3.03	1.73	Z8F042ASJ020SC	
8K	1K	6	—	1-UART, IrDA	—	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3797-ND†	3.12	2.34	1.55	Z8F081APB020EG	269-3686-ND
									Commercial	8-DIP	269-3798-ND†	2.79	2.10	1.40	Z8F081APB020SG	
									Extended	8-MLF	269-3799-ND†	3.45	2.59	1.72	Z8F081AQB020EG	
									Commercial	8-MLF	269-3800-ND†	3.09	2.32	1.55	Z8F081AQB020SG	
									Extended	8-SOIC	269-3801-ND†	3.00	2.25	1.50	Z8F081ASB020EG	
									Commercial	8-SOIC	269-3802-ND†	2.70	2.03	1.35	Z8F081ASB020SG	
		17	—	UART	—	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3695-ND	3.93	3.61	1.97	Z8F081AHH020EC	269-3686-ND
									Commercial	20-SSOP	269-3696-ND	3.54	3.25	1.77	Z8F081AHH020SC	
									Extended	20-DIP	269-3699-ND	4.50	4.13	2.25	Z8F081APH020EC	
									Commercial	20-DIP	269-3700-ND	4.05	3.72	2.02	Z8F081APH020SC	
									Extended	20-SOIC	269-3703-ND	3.93	3.61	1.96	Z8F081ASH020EC	
									Commercial	20-SOIC	269-3704-ND	3.54	3.25	1.77	Z8F081ASH020SC	
		25	—	UART	—	2.7 ~ 3.6	20MHz	2	Extended	28-SSOP	269-3697-ND	4.08	3.74	2.04	Z8F081AHJ020EC	269-3686-ND
									Commercial	28-SSOP	269-3698-ND	3.69	3.39	1.84	Z8F081AHJ020SC	
									Extended	28-DIP	269-3701-ND	4.65	4.27	2.32	Z8F081APJ020EC	
									Commercial	28-DIP	269-3702-ND	4.17	3.83	2.09	Z8F081APJ020SC	
									Extended	28-SOIC	269-3705-ND	3.93	3.61	1.96	Z8F081ASJ020EC	
									Commercial	28-SOIC	269-3706-ND	3.54	3.25	1.77	Z8F081ASJ020SC	
		17	—	UART	7-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	20-SSOP	269-3707-ND	4.14	3.80	2.07	Z8F082AHH020EC	269-3686-ND
									Commercial	20-SSOP	269-3680-ND	3.72	3.41	1.86	Z8F082AHH020SC	
									Extended	20-DIP	269-3709-ND	4.71	4.32	2.35	Z8F082APH020EC	
									Commercial	20-DIP	269-3682-ND	4.23	3.88	2.11	Z8F082APH020SC	
									Extended	20-SOIC	269-3711-ND	4.11	3.77	2.06	Z8F082ASH020EC	
		6	—	UART	4-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Extended	8-DIP	269-3807-ND†	3.27	2.46	1.63	Z8F082APB020EG	269-3686-ND
									Commercial	8-DIP	269-3735-ND†	2.94	2.70	1.46	Z8F082APB020SG	
									Extended	8-MLF	269-3808-ND†	3.60	2.70	1.80	Z8F082AQB020EG	
									Commercial	8-MLF	269-3809-ND†	3.24	2.43	1.62	Z8F082AQB020SG	
									Extended	8-SOIC	269-3810-ND†	3.15	2.37	1.57	Z8F082ASB020EG	
									Commercial	8-SOIC	269-3736-ND†	2.82	2.59	1.42	Z8F082ASB020SG	
		23	—	UART	8-ch. 10-bit	2.7 ~ 3.6	20MHz	2	Commercial	28-SSOP	269-3681-ND	3.84	3.52	1.93	Z8F082AHJ020SC	269-3686-ND
									Extended	28-DIP	269-3710-ND	4.83	4.43	2.42	Z8F082APJ020EC	
									Commercial	28-DIP	269-3683-ND	4.35	3.99	2.18	Z8F082APJ020SC	
									Extended	28-SOIC	269-3712-ND	4.23	3.88	2.11	Z8F082ASJ020EC	
									Commercial	28-SOIC	269-3685-ND	3.78	3.47	1.90	Z8F082ASJ020SC	

† RoHS Compliant

Z8 Encore!® MC (Motor Control) Flash Microcontrollers

The Z8FMCxx100 Series Flash MCU is based on Zilog's advanced eZ8 8-bit CPU core and is optimized for motor control applications. It supports control of single and multiphase variable speed motors. Target applications are consumer appliances, HVAC, factory automation, refrigeration, and automotive applications.

Memory Size Program (Bytes)	RAM (Bytes)	I/O Pins	Serial Communication	ADC	VCC	Clock Speed	Timer/Counters, PWM's	Operating Temp.	Package	Digi-Key Part No.	Price Each			Zilog Part No.	Development Tools
											1	25	100		
4K	512	17	UART,with IrDA, I^{2}C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Extended	32-LQFP	269-3811-ND	7.44	5.58	3.94	Z8FMC04100AKEG	269-3639-ND
									32-QFN	269-3813-ND	7.44	5.58	3.94	Z8FMC04100QKEG	
4K	512	17	UART,with IrDA, I^{2}C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	0° ~ 70°C	32-LQFP	269-3812-ND ***NEW!***	6.78	5.09	3.59	Z8FMC04100AKSG	269-3830-ND
									32-QFN	269-3814-ND ***NEW!***	6.78	5.09	3.59	Z8FMC04100QKSG	
8K	512	17	UART,with IrDA, I^{2}C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	Extended	32-LQFP	269-3815-ND	7.83	5.88	4.14	Z8FMC08100AKEG	269-3639-ND
									32-QFN	269-3817-ND	7.83	5.88	4.14	Z8FMC08100QKEG	
8K	512	17	UART,with IrDA, I^{2}C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	0° ~ 70°C	32-LQFP	269-3816-ND ***NEW!***	7.14	5.36	3.78	Z8FMC08100AKSG	269-3830-ND
									32-QFN	269-3818-ND ***NEW!***	7.14	5.36	3.78	Z8FMC08100QKSG	
16K	512	17	UART,with IrDA, I^{2}C, SPI	8-ch. 10-bit	2.7 ~ 3.6V	20MHz	(1) 16-bit 6-ch. 12-bit	0° ~ 70°C	32-LQFP	269-3819-ND ***NEW!***	7.50	5.63	3.96	Z8FMC16100AKSG	269-3830-ND
									32-QFN	269-3820-ND ***NEW!***	7.50	5.63	3.96	Z8FMC16100QKSG	
									32-LQFP	269-3831-ND ***NEW!***	8.25	6.19	4.36	Z8FMC16100AKEG	
									32-QFN	269-3832-ND ***NEW!***	8.25	6.19	4.36	Z8FMC16100QKEG	

eZ80 Acclaim!™ Flash Microcontrollers

Flash (KB)	SRAM (KB)	I/O Lines	DMA Controller	Speed (MHz)	16-bit Timers	EMAC	Other Features	IrDA	Operating Voltage	Temperature Range	Package	Digi-Key Part No.	Price Each			Zilog Part No.
													1	25	100	
256K	16K	32	Y	50	4	Y	2 UARTS, SPI, I^{2}C, PLL, RTC	Y	3.0-3.6V	-40° ~ 105°C	144-LQFP	269-3161-ND	26.85	20.14	11.93	EZ80F91AZ050SC
											144-LQFP	269-3199-ND	29.52	22.14	13.12	EZ80F91AZ050EC
											144-BGA	269-3251-ND	28.20	21.15	12.53	EZ80F91NA050SC
											144-BGA	269-3250-ND	30.87	23.16	13.72	EZ80F91NA050EC
128K	8K	24	—	20	6	—	2 UARTS, SPI, I^{2}C, RTC	Y	3.0-3.6V	-40° ~ 105°C	100-LQFP	269-3200-ND	20.64	15.48	9.17	EZ80F92AZ020EC
64K	4K	24	—	20	6	—	2 UARTS, SPI, I^{2}C, RTC	Y	3.0-3.6V	-40° ~ 105°C	100-LQFP	269-3164-ND	17.43	13.08	7.75	EZ80F93AZ020SC
												269-3201-ND	19.17	14.38	8.52	EZ80F93AZ020EC
—	—	24	—	20	6	—	2 UARTS, SPI, I^{2}C	Y	3.0-3.6V	-40° ~ 105°C	100-LQFP	269-3167-ND	16.59	12.45	7.37	EZ80L92AZ020EC
												269-3168-ND	14.43	10.83	6.41	EZ80L92AZ020SC
—	—	24	—	50	6	—	2 UARTS, SPI, I^{2}C	Y	3.0-3.6V	-40° ~ 105°C	100-LQFP	269-3169-ND	18.24	13.68	8.11	EZ80L92AZ050EC

Emulators

Description	Digi-Key Part No.	Price Each
Z8 Encore!®		
Z8 Encore! 64K Series 40-pin PDIP Emulator Kit	269-3393-ND	2995.00
Z8 Encore! 64K Series 44-pin PLCC Emulator Kit	269-3394-ND	2995.00
Z8 Encore! 64K Series 64-pin LQFP Emulator Kit	269-3395-ND	2995.00
Z8 Encore! 64K Series 68-pin PLCC Emulator Kit	269-3396-ND	2995.00
Z8 Encore! 64K Series 80-pin QFP Emulator Kit	269-3397-ND	2995.00
Z8 GP™		
Z8 GP ZGP323 In-Circuit Emulator and Development Platform	269-3743-ND	999.00
Z8 GP ZGP323 In-Circuit Emulator	269-3864-ND ***NEW!***	498.75
Z8 Encore!® MC		
Z8 Encore! MC Z8FMC16100 Emulator	269-3830-ND ***NEW!***	1999.01
Z8 Crimzon™		
Z8 Crimzon ZLP12840 Emulator	269-3829-ND ***NEW!***	1247.95

Development Kits

Description	Digi-Key Part No.	Price Each
eZ80Acclaim!™		
Development Kit for eZ80F91	269-3388-ND	99.95
Development Kit for eZ80F91	269-3154-ND	279.00
Development Kit for eZ80F92	269-3162-ND	399.95
Z8 Encore! XP®		
Z8 Encore! XP 4K Series, (8-pin) Development Kit	269-3638-ND	49.99
Z8 Encore! XP 4K Series, (28-pin) Development Kit	269-3307-ND	39.95
Z8 Encore! XP F08xA Series, (28-pin) Development Kit	269-3686-ND	39.95
Z8 Encore!®		
Z8 Encore! Development Kit (8K/4K)	269-3183-ND	39.95
Z8 Encore! Z8F642 MCU Development Kit	269-3249-ND	39.95
Z8 Encore! Motor Control Development Kit	269-3639-ND	199.95
eZ80®		
eZ80L92 Development Kit	269-3165-ND	399.95
Crimzon™		
Crimzon RC Development Platform	269-3398-ND	249.00

Programmer

Description	Digi-Key Part No.	Price Each
Z8 GP™		
Z8 GP ZGP323 Ethernet Programming System	269-3390-ND	99.00

Adapters

Description	Digi-Key Part No.	Price Each
Z8 Encore!®		
Z8 Encore! 64K Series 44-pin LQFP ICE Adapter	269-3400-ND	299.00
Z8 Encore! 64K Series 40-pin PDIP ICE Adapter	269-3401-ND	299.00
Z8 Encore! 64K Series 44-pin PLCC ICE Adapter	269-3402-ND	299.00
Z8 Encore! 64K Series 64-pin LQFP ICE Adapter	269-3403-ND	299.00
Z8 Encore! 64K Series 68-pin PLCC ICE Adapter	269-3404-ND	299.00
Z8 Encore! 64K Series 80-pin QFP ICE Adapter	269-3405-ND	299.00
Z8 GP™		
Z8 GP ZGP323 20-pin SSOP Programming Adapter	269-3738-ND	90.00
Z8 GP ZGP323 20-pin SOIC Programming Adapter	269-3739-ND	90.00
Z8 GP ZGP323 28-pin SSOP Programming Adapter	269-3740-ND	90.00
Z8 GP ZGP323 28-pin SOIC Programming Adapter	269-3741-ND	90.00
Z8 GP ZGP323 48-pin SSOP Programming Adapter	269-3742-ND	90.00

Modules

Description	Digi-Key Part No.	Price Each
eZ80Acclaim!™		
Multipurpose MCU Module	269-3155-ND	75.00
Multipurpose MCU Module	269-3861-ND† ***NEW!***	75.00
Flash Module for eZ80F92	269-3156-ND	84.10
Ethernet Module for eZ80F92	269-3157-ND	108.00
eZ80®		
Webserver-i Ethernet Module	269-3166-ND	57.38
Mini Ethernet Module	269-3860-ND† ***NEW!***	46.67

† RoHS Compliant

Accessory Kits

Description	Digi-Key Part No.	Price Each
eZ80Acclaim!™		
eZ80Acclaim! Serial Smart Cable Accessory Kit	269-3391-ND	35.00
USB Smart Cable Accessory Kit	269-3678-ND	31.15
Z8 Encore!®		
Z8 Encore! Smart Cable Accessory Kit	269-3248-ND	19.95
Modular Development System General Purpose Kit	269-3386-ND	149.95
Z8 Encore!® MC™		
Opto-isolated USB Smart Cable Accessory Kit	269-2287-ND	75.00
Crimzon™		
40-DIP/48-SSOP Accessory Kit for ZLP128ICE01ZEM	269-3859-ND ***NEW!***	249.00

Real-Time, In-Circuit Emulation and Programming for only $49.95

Z86CCP01ZEM Emulator / Programmer for Zilog's Z8® Microcontrollers with up to 32K Program Memory

Digi-Key® Part No. **269-2002-ND**
(See Z8 chart for applicable devices.)

GENERAL DESCRIPTION: Zilog's in-circuit emulator/programmer is an interactive, Windows™ based development tool providing a real-time environment for emulation and debugging, which includes a full-featured macro cross assembler to enhance programmer productivity. The Z86CCP01ZEM is a member of Zilog's ICEBOX™ product family of in-circuit emulators providing support for the Z8 microcontrollers. The emulator provides essential timing and I/O circuitry to simplify user emulation of the prototype hardware and software product. The Z8 CCP emulator provides users with a hardware platform to develop and debug software in a real-time environment. In contrast, software simulators provide significantly slower operation making them less practical for code development. The Z8 CCP emulator can be connected to a serial port (COM1, COM2, COM3, and COM4) of the host computer and uses Zilog Developer Studio (ZDS). **Z8 CCP Emulator Kit Contents:** Circuit Board: CMOS Z86C9320VSC, 20MHZ CMOS Z86C5020FSE ICE Chip, 32K x 8 Static RAM (for Code Memory) 18-Pin DIP ZIF Programming Socket, Holes Available for 28/40-Pin ZIF Programming Sockets, Sockets for 28/40-Pin Target Cables, 25-pin RS-232C Interface Connector: 18-Pin DIP Target Cable, Power Cable **Documentation:** Emulator User's Manual ***NOTE:*** *Power Supply RS-232C not included with Z86CCP01ZEM (recommended wall transformer T404-ND)* **FEATURES:** • In-Circuit Debug Emulation • Real-Time Emulation • Z8 GUI ZDS Emulator Software • Window-Based User Interface • On-Line Help • One-Time Programmable (OTP) Support • Selectable Baud Rates: 9600 to 57.6 Kbps • Bisync Error-Correcting Communications Protocol • Source-Level Debugging • Symbolic Disassembly in the Debug Window • Zilog Developer Studio (ZDS): – ZMASM, – Structured Assembly and Data Code, – Source-Level Debug Support, – Built-In Register Equates, – Linker, – Windows 95TM Integrated Editor

SPECIFICATIONS: Operating Temperature: 20°C ± 10°C **Supply Voltage:** +7.5 VDC to 10VDC **Minimum Emulation Speed:** 1 MHz internal SCLK **Maximum Emulation Speed:** 6 MHz internal SCLK12 MHz external Crystal (shipped with 8 MHZ crystal) **Operating Humidity:** 10-90% RH (non-condensing) **Power Requirements:** +8VDC @ 0.5A typical, 0.8A maximum **Dimensions:Width:** 7.0 in. (17.7 cm) **Length:** 9.0 in. (22.9 cm) **Height:** 0.9 in. (2.3 cm) **Serial Interface** :RS-232C @ 9600, 19200 (default), 28800, or 57600 Baud

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Z8® Series Microcontrollers

Z8 MCU Family

OVERVIEW: Zilog MCU products are targeted for cost-sensitive, high-volume applications including consumer, automotive, security, and HVAC. One-time programmable (OTPs) for prototyping as well as volume production where time to market or code flexibility is critical. A variety of packaging options are available. The same on-chip peripherals are used across the MCU product line with the primary differences being the amount of ROM/RAM, number of I/O lines present, and packaging/temperature ranges available. This allows code written for one MCU device to be easily ported to another family member.

FEATURES: • **General-Purpose Register (GPR) File Architecture:** Every RAM register acts like an accumulator, speeding instruction execution and maximizing coding efficiency. Working register groups allow fast context switching. • **Flexible I/O:** I/O byte, nibble, and/or bit programmable as inputs or outputs. Outputs are software programmable as open-drain or push-pull on a port basis. Inputs are Schmitt-triggered with auto latches to hold unused inputs at a known voltage state. • **Analog Inputs:** Three input pins are software programmable as digital or analog inputs. When in the analog mode, two comparator inputs are provided with a common reference input. • **Timer/Counter (T/C):** The T/C consists of a programmable 6-bit prescaler and 8-bit downcounter, with maskable interrupt upon end-of-count. • **Interrupts:** There are six vectored interrupt sources with software-programmable enable and priority for each of the six sources. • **Watch-Dog Timer (WDT):** An internal WDT circuit is included as a fail-safe mechanism so that if software strays outside the bounds of normal operation, the WDT will timeout and reset the MCU. • **Auto Reset:** All family devices have internal Power-On Reset. • **Low-EMI Operation:** Mode is programmable via software or as a mask option. This new option provides for reduced radiated emission via clock and output drive circuit changes. • **Low-Power:** CMOS with two standby modes; STOP and HALT. • **Full Z8 Instruction Set:** Forty-eight basic instructions, supported by six addressing modes with the ability to operate on bits, nibbles, bytes, and words.

ACCESSORY KIT

The Z86CCP00ZAC is the accessory kit for the Z86CCP01ZEM. The kit contains all accessories to fully populate and operate all functions of the Z86CCP01ZEM.

KIT CONTENTS: • 28-Pin DIP ZIF Socket • 28-Pin Target Connector Cable • 40-Pin DIP ZIF Socket • 40-Pin Target Connector Cable • RS-232 Cable • Power Cable

Memory Size		I/O Lines	Oscillator Type External	Freq. Range Min./Max.	Supply Voltage Range	Operating Temp. (°C)	Package	Req. Emulator Tools	Req. OTP Prog. Tools	Digi-Key Part No.	Price Each			Zilog Part No.
Eprom	Ram										1	25	100	
0.5K	61	14	XTAL/RC	DC-8MHz	3.5-5.5	0-70	18-DIP	A	A	269-1012-ND	2.28	1.71	1.04	Z86E0208PSC1925
			XTAL/RC	DC-8MHz	3.5-5.5	0-70	18-SOIC	*	A, 2	269-1014-ND	2.28	1.71	1.04	Z86E0208SSC1925
			XTAL	DC-8MHz	3.5-5.5	0-70	20-SSOP	—	—	269-3069-ND	2.49	1.87	1.12	Z86E0208HSC1925
			XTAL/RC	DC-8MHz	4.5-5.5	-40-105	18-SOIC	*	A, 2	269-1013-ND	2.49	1.87	1.14	Z86E0208SEC1925
			XTAL	DC-8MHz	4.5-5.5	-40-105	20-SSOP	—	—	269-3068-ND	2.73	2.05	1.24	Z86E0208HEC1925
1K	125	14	XTAL	DC-12MHz	4.5-5.5	0-70	18-DIP	A	A	269-1095-ND	3.54	2.66	1.57	Z86E0412PSC1866
			RC	DC-12MHz	4.5-5.5	0-70	18-DIP	A	A	269-1096-ND	3.54	2.66	1.57	Z86E0412PSC1903
			XTAL	DC-12MHz	4.5-5.5	0-70	18-SOIC	*	A, 2	269-1099-ND	3.54	2.66	1.57	Z86E0412SSC1866
			XTAL	DC-12MHz	4.5-5.5	0-70	20-SSOP	—	—	269-3076-ND	3.75	2.82	1.67	Z86E0412HSC1866
			RC	DC-12MHz	4.5-5.5	0-70	20-SSOP	—	—	269-3077-ND	3.75	2.82	1.67	Z86E0412HSC1903
			XTAL	DC-12MHz	4.5-5.5	-40-105	18-DIP	A	A	269-1093-ND	3.90	2.93	1.73	Z86E0412PEC
			XTAL	DC-12MHz	4.5-5.5	-40-105	18-SOIC	*	A, 2	269-1097-ND	3.90	2.93	1.73	Z86E0412SEC
			XTAL	DC-12MHz	4.5-5.5	-40-105	20-SSOP	—	—	269-3074-ND	4.14	3.11	1.84	Z86E0412HEC1866
			RC	DC-12MHz	4.5-5.5	-40-105	20-SSOP	—	—	269-3075-ND	4.14	3.11	1.84	Z86E0412HEC1903
2K	125	14	XTAL	DC-12MHz	4.5-5.5	0-70	18-DIP	A	A	269-1025-ND	4.35	3.27	1.93	Z86E0812PSC1866
			RC	DC-12MHz	4.5-5.5	0-70	18-DIP	A	A	269-1026-ND	4.35	3.27	1.93	Z86E0812PSC1903
			XTAL	DC-12MHz	4.5-5.5	0-70	18-SOIC	*	A, 2	269-1029-ND	4.35	3.27	1.93	Z86E0812SSC1866
			RC	DC-12MHz	4.5-5.5	0-70	20-SSOP	—	—	269-3089-ND	4.53	3.40	2.01	Z86E0812HSC1903
			XTAL/RC	DC-16MHz	3.5-5.5	0-70	28-DIP	A	A, 3	269-1053-ND	6.39	4.80	3.22	Z86E3116PSC
			XTAL/RC	DC-16MHz	3.5-5.5	0-70	28-SOIC	*	A, 3, 4	269-1055-ND	6.39	4.80	3.22	Z86E3116SSC
			RC	DC-12MHz	4.5-5.5	-40-105	18-SOIC	*	A, 2	269-1028-ND	4.77	3.58	2.12	Z86E0812SEC1903
			XTAL	DC-12MHz	4.5-5.5	-40-105	20-SSOP	—	—	269-3086-ND	5.01	3.76	2.23	Z86E0812HEC1866
			RC	DC-12MHz	4.5-5.5	-40-105	20-SSOP	—	—	269-3087-ND	5.01	3.76	2.23	Z86E0812HEC1903
			XTAL/RC	DC-16MHz	4.5-5.5	-40-105	28-DIP	A	A, 3	269-1052-ND	7.05	5.29	3.35	Z86E3116PEC
			XTAL/RC	DC-16MHz	4.5-5.5	-40-105	28-SOIC	*	A, 3, 4	269-1054-ND	7.05	5.29	3.35	Z86E3116SEC
4K	237	24	XTAL/RC	DC-16MHz	3.5-5.5	0-70	28-DIP	A	A, 4	269-1041-ND	7.71	5.79	3.43	Z86E3016PSC
			XTAL/RC	DC-16MHz	3.5-5.5	0-70	28-SOIC	*	A, 3, 4	269-1043-ND	7.71	5.79	3.43	Z86E3016SSC
			XTAL/RC	DC-16MHz	3.5-5.5	0-70	28-PLCC	A	A, 3, 4	269-1045-ND	7.71	5.79	3.43	Z86E3016VSC
			XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-DIP	A	A, 7	269-1036-ND	7.98	5.99	4.27	Z86E3312PSC
			XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-SOIC	*	A, 8	269-1103-ND	7.98	5.99	4.19	Z86E3312SSC
			XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-PLCC	*	A, 9	269-1104-ND	7.98	5.99	4.16	Z86E3312VSC
	236	32	XTAL/RC	DC-16MHz	3.5-5.5	0-70	40-DIP	A	A, 3	269-1072-ND	9.18	6.89	4.42	Z86E4016PSC
			XTAL/RC	DC-16MHz	3.5-5.5	0-70	44-PLCC	*	A, 3, 6	269-1074-ND	9.18	6.89	4.42	Z86E4016VSC
			XTAL/RC	DC-12MHz	3.5-5.5	0-70	40-DIP	A	A, 10	269-1037-ND	9.75	7.32	4.56	Z86E4312PSC
			XTAL/RC	DC-12MHz	3.5-5.5	0-70	44-PQFP	*	A, 3, 16	269-1108-ND	10.17	7.63	4.95	Z86E4312FSC
			XTAL/RC	DC-16MHz	4.5-5.5	0-70	44-PQFP	*	A, 3, 15	269-1107-ND	9.57	7.18	4.42	Z86E4016FSC
	237	24	XTAL/RC	DC-16MHz	4.5-5.5	-40-105	28-DIP	A	A, 4	269-1040-ND	8.49	6.37	3.77	Z86E3016PEC
	236	32	XTAL/RC	DC-16MHz	4.5-5.5	-40-105	40-DIP	A	A, 3	269-1071-ND	10.08	7.56	4.87	Z86E4016PEC
8K	237	24	XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-SOIC	*	A, 8	269-1047-ND	9.72	7.29	4.63	Z8673312SSC
	237	24	XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-DIP	A	A, 7	269-1112-ND	9.72	7.29	4.63	Z8673312PSC
	236	32	XTAL/RC	DC-12MHz	3.5-5.5	0-70	44-PLCC	*	A, 11	269-1048-ND	11.28	8.46	5.37	Z8674312VSC
16K	237	24	XTAL/RC	DC-12MHz	3.5-5.5	0-70	28-DIP	C	C, 7	269-1105-ND	12.84	9.63	6.03	Z86E3412PSC
	236	32	XTAL/RC	DC-12MHz	3.5-5.5	0-70	40-DIP	C	C, 10	269-1034-ND	14.43	10.83	6.41	Z86E4412PSC
	236	32	XTAL/RC	DC-12MHz	3.5-5.5	0-70	44-PLCC	*	C, 11	269-1046-ND	14.43	10.83	6.41	Z86E4412VSC
	236	32	XTAL/RC	DC-12MHz	3.5-5.5	0-70	44-PQFP	*	C, 16	269-1109-ND	14.82	11.12	6.59	Z86E4412FSC
	236	32	XTAL	DC-16MHz	4.5-5.5	0-70	44-PQFP	*	B, 14	269-1110-ND	23.01	17.26	10.23	Z86E6116FSC
32K	236	32	XTAL	DC-16MHz	4.5-5.5	0-70	44-PQFP	*	B, 14	269-1111-ND	29.22	21.92	12.99	Z86E6316FSC

Key	Description	Digi-Key Part No.	Price Each	Zilog Part No.
	Emulators/Programmers			
A	Z8 Emulator/Programmer Board	269-2002-ND	49.95	Z86CCP01ZEM
	OTP Programming Adapters			
2	18 Pin SOIC Adapter	269-2006-ND	95.00	Z86E0700ZDP
3	Z8 Accessory Kit (28-DIP, 40-DIP) for Z86CCP01ZEM	269-2001-ND	46.43	Z86CCP00ZAC
6	44 Pin PLCC Adapter	269-2008-ND	74.83	Z86E4001ZDV
7	28 Pin Dip Adapter	269-2009-ND	35.10	Z86E3400ZDP
8	28 Pin SOIC Adapter	269-2010-ND	52.65	Z86E3400ZDS
14	44 Pin PQFP to 40 Dip Adapter	269-2021-ND	198.00	Z86E2101ZDF
15	44 Pin PQFP to 40 Dip Adapter	269-2022-ND	118.83	Z86E4001ZDF

* Zilog's emulators support this part, but the in-circuit target cable is configured for DIP only. For designs that require a surface mount package, see logic system adapters in the manufacturers index.

eZ80 - The Next Generation

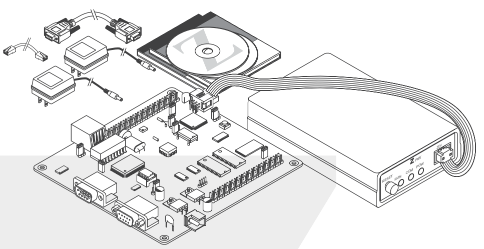

EZ80190AZ050EC AND EZ80190AZ050SC

Just as the Z80 revolutionized the semiconductor industry, the next generation eZ80 is revolutionizing the way that communications are happening today. This elegant system-on-a-chip can serve web pages over a TCP/IP network, allowing easy system monitoring and control, effortless processor code updates, and system compatibility. This solution enables any browser with access to your network the ability to control and monitor a network application. The eZ80 executes Z80 code four times faster than traditional Z80s at the same clock speed, and can operate at speeds up to 50MHz. Unlike most 8-bit microprocessors, which can only address 64KB, the eZ80 can address 16MB without a Memory Management unit. The eZ80 Webserver also features an Embedded Internet Software Suite that enables the transmission and reception of HTML form data and the dynamic generation of web pages.

FEATURES:
• 50MHz Processor • Multiply and Accumulate Engine • 16MB Linear Addressing • 3.3V Operation • 2 DMA Channels • Universal ZiLOG Interface (selectable UART, IIC, SPI) • 6 PRTs with Prescalers • 8KB SRAM • 32-Bit GPIO with Interrupt Support • On-Chip Oscillator • Optimized Pipeline Architecture • ZiLOG Debug Interface

EZ801900200ZCO

Contains an eZ80® Development Platform, an eZ80190 Module, a power supply, the ZPAKII Debug Interface Tool, and documentation on CDROM. For a product-specific listing of items in the kit, please see the Kit Contents sheet found inside this kit.

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Zilog Part No.
Webserver IC, Ext. Temperature	100-LQFP	269-3123-ND	24.69	18.52	10.97	EZ80190AZ050EC
Webserver IC	100-LQFP	269-3124-ND	21.48	16.11	9.55	EZ80190AZ050SC
Development Kit	—	269-3202-ND	399.95	—	—	EZ801900200ZCO

Z8Plus™ Microcontrollers

Employing the experience gained from the industry-standard Z80 and Z8 cores, the Z8Plus offers increased functionality, significantly higher performance, lower power requirements, and greater cost savings over other 8-bit microcontrollers. The Z8Plus is designed to be easy to use, even for designers who have never used a microcontroller before.

With single-cycle execution, powerful I/O capabilities and register-to-register architecture, the Z8Plus offers state-of-the-art flexibility and freedom for any designer in search of a low-cost solution for a variety of microcontroller applications.

The Z8Plus core offers several significant advantages compared to the current Z8 core. Foremost is performance improvement due to a reduced system clock division and a fixed instruction cycle time. The improvement is nearly 50%, depending upon instruction mix. For example, a Z8Plus-based part at 10MHz has performance comparable to a 16MHz part in production today. This, along with significant design improvements, leads to lower power and lower noise operation.

The Z8PE002 and Z8PE003 microcontrollers are the newest members of the popular Z8E001 Z8 Plus 8-bit microcontroller family. New features include voltage brown-out protection and power-on reset. Additionally, the "RESET" pin has been replaced with a general purpose I/O pin and oscillator circuitry to support RC configurations. These new parts are targeted at customers who require a powerful, yet small OTP microcontroller for use in general purpose applications.

EMULATOR/PROGRAMMER

FEATURES: • In-Circuit Program Debug Emulation • Real-Time Emulation • ZDS Emulator Software • Window-Based User Interface • On-Line Help • One-Time Programmable (OTP) Support • Selectable Baud Rates: 9600 to 57.6 Kbps • Bisync Error-Correcting Communications Protocol

SPECIFICATIONS: OPERATING TEMPERATURE: 20°C ± 10ºC **POWER REQUIREMENT:** +9.0 VDC @ 0.5A Minimum (Typical).

DIMENSIONS: • Width: 6.75 in. (17.15 cm) • Length: 7.50 in. (19.05 cm) • Height: 0.90 in. (2.30 cm) **SERIAL INTERFACE:** RS-232C @ 9600, 19200 (default), 28800, or 57600 Baud

HOST COMPUTER: Minimum Requirements: IBM PC (or 100% Compatible) 386-Based Machine: • 33 MHz • 4 MB RAM • VGA Video Adapter • Hard Disk Drive (2.5 MB Free Space) • 3.5-inch, High-Density (HD) Floppy Disk Drive • RS-232C Com Port • Mouse or Pointing Device • Microsoft Windows 3.1

KIT CONTENTS (One of Each): Z8M001 Emulator Board; **• Cable /Pods:** 18-Pin Emulation Pod Cable; 9-Pin M-F Serial Cable (6 ft.) **• Host Software:** Z8 Graphical User Interface (GUI); ZiLOG Macro Cross Assembler (ZMASM)/ZiLOG Developer Studio (ZDS) **• Documentation:** ZiLOG 1999 Technical Library CD ROM, which contains Z8 device data sheets, user manuals, application notes; Z8M001 Emulator User's Manual

Memory Size		I/O Lines	Oscillator Type External	Frequency Range Min/Max	Supply Voltage Range	Operating Temp. (°C)	Package	Required Emulator Tools	Required OTP Programming Tools	Digi-Key Part No.	Price Each			Zilog Part No.
Eprom	Ram										1	25	100	
512	32	13	XTAL/LC	DC - 10MHz	3.5 ~ 5.5	0 ~ 70	18-DIP	D	D	269-1117-ND	2.10	1.93	1.11	Z8E00010PSC
1K	64	13	XTAL/LC	DC - 10MHz	3.5 ~ 5.5	0 ~ 70	18-DIP 18-SOIC	D *	D D, 2	269-1121-ND 269-1123-ND	2.64 2.64	2.42 2.42	1.25 1.25	Z8E00110PSC Z8E00110SSC
					4.5 ~ 5.5	-40 ~ 105	18-DIP	D	D	269-1120-ND	2.91	2.67	1.36	Z8E00110PEC
Z8PE002 / Z8PE003 Series														
512	64	14	XTAL/LC	DC - 10MHz	3.0 ~ 5.5	0 ~ 70	18-DIP 20-SSOP	D *	D D, 17	269-1130-ND 269-1132-ND	2.25 2.43	2.07 2.23	1.17 1.27	Z8PE002PZ010SC Z8PE002HZ010SC
					4.5 ~ 5.5	-40 ~ 105	20-SSOP	*	D, 17	269-1135-ND	2.67	2.45	1.49	Z8PE002HZ010EC
1K	64	14	XTAL/LC	DC - 10MHz	3.0 ~ 5.5	0 ~ 70	18-DIP 18-SOIC 20-SSOP	D * *	D D, 2 D, 17	269-1136-ND 269-1137-ND 269-1138-ND	3.12 3.12 3.30	2.86 2.86 3.03	1.57 1.57 1.73	Z8PE003PZ010SC Z8PE003SZ010SC Z8PE003HZ010SC
					4.5 ~ 5.5	-40 ~ 105	18-DIP 18-SOIC	D *	D D, 2	269-1139-ND 269-1140-ND	3.42 3.42	3.14 3.14	1.73 1.73	Z8PE003PZ010EC Z8PE003SZ010EC

Key	Description	Digi-Key Part No.	Price Each	Zilog Part No.
***Emulator / Programmer* †**				
D	Z8 Plus Emulator/Programmer (Power supply sold separately T405-P5P-ND recommended)	269-2033-ND	167.78	Z8ICE001ZEM

† For OTP programming adapters, please refer to Z8 Series.

* Zilog's emulators support this part, but the in-circuit target cable is configured for DIP only. For designs that require a surface mount package, accommodations will have to be made to use the emulator for in-circuit DIP emulation.

Turnkey Universal Remote Control Kit

The Crimzon RC Bullet™ Reference Design Kits are ideally suited for Universal Remote Control applications. These kits feature both learning and non-learning models with both three-in-one (Cable/Satellite, DVD/VCR, and TV) and six-in-one feature sets (Cable, Satellite, Audio, TV, DVD,VCR) for the North American and European marketplaces. Built on the Z8-based ZLx16300 and ZLx32300 IR MCU, and competitively priced the kits give you everything needed to start manufacturing branded universal remote controls today.

269-3380-ND	USA, 3-Function, Non-Learning	**$129.00**
269-3381-ND	European, 3-Function, Non-Learning	**$129.00**
269-3382-ND	USA, 6-Function, Non-Learning	**$129.00**
269-3383-ND	European, 6-Function, Non-Learning	**$129.00**
269-3384-ND	USA, 6-Function, Learning	**$159.00**
269-3385-ND	European, 6-Function, Learning	**$159.00**

Thermostat Application Module Kit

Thermostat Application Module provides a flexible platform for training and experimentation on a number of microcontroller and microprocessor devices.

The module contains no processor. It is designed to attach to the eZ80 development platforms, which contain both the processors and the control programs that make the development function.

FEATURES:

• Simple bit-I/O (LEDs, switches, lamp, and fan) • Alphanumeric LCD display via the GPIO interface • Temperature sensor via the I²C interface • EEPROM data storage via the I²C interface • Flash program storage for eZ80 family devices

269-3198-ND	**$85.00**

Z86L99 with IR Solutions

In-circuit emulators are interactive, Windows-oriented development tools, providing a real-time environment for emulation and debugging. Provides essential timing and I/O circuitry to simplify user emulation of prototype hardware and software products.

FEATURES: • Supports up to 32K of ROM • Varies the operating voltage from 3.0-4.0V • Supports incircuit emulation on target systems that operate at 3.0-4.0V • Powers the In-Circuit Emulator (ICE) chip from either the emulator or target board • Supports IR devices that operate at up to 8MHz • Emulates 28-pin DIP and 40-pin DIP • Provides OTP programming for 28-pin DIP and SOIC packages, 40-pin PDIP, 48-pin SSOP • Multi-tasks with other Windows applications while ZiLOG Developer Studio (ZDS) is running

269-3241-ND	Z86L99 In-Circuit Emulator	**$850.00**
269-3238-ND	Z86D990; 48-SSOP	**$17.97**
269-3239-ND	Z86D990; 40-DIP	**$17.04**

CYPRESS
"Connecting from Last Mile To First Mile."

PSoC™ (Programmable System on Chip) Flash Microcontrollers

The Programmable System-on-Chip (PSoC™) microcontrollers integrate a microcontroller and the analog and digital components that typically surround it in an embedded system. Easy-to-use development tools enable designers to select the precise peripheral functionality they desire, including analog functions such as amplifiers, ADCs, DACs, filters and comparators and digital functions such as timers, counters, PWMs, SPI and UARTs. The PSoC family's analog features include rail-to-rail inputs, programmable gain amplifiers and up to 14-bit ADCs with exceptionally low noise, input leakage and voltage offset. PSoC devices include up to 32 KB of flash memory, 2 KB of SRAM, an 8x8 multiplier with 32-bit accumulator, power and sleep monitoring circuits, and hardware I2C communications. Operating Voltage from 3.0V to 5.25V. Temperature Range: -40°C ~ 85°C

Memory Size Prom	Ram	Number I^2C	USB	Pin Count I/O	Package	Digi-Key Part No.	Price Each			Cypress Part No.
							1	25	100	
8K	512	Yes	No	12	16-SOIC	428-1611-ND*	4.00	2.40	2.00	CY8C21234-24SXI
				16	20-SSOP	428-1612-ND*	4.13	2.48	2.07	CY8C21334-24PVXI
				28	32-MLF	428-1613-ND*	4.98	2.99	2.49	CY8C21434-24LFXI
				24	28-SSOP	428-1614-ND*	4.45	2.67	2.23	CY8C21534-24PVXI
				26	32-MLF	428-1615-ND*	4.70	2.82	2.35	CY8C21634-24LFXI
2K	256	Yes	No	16	32-MLF	428-1546-ND	3.48	2.15	1.74	CY8C22213-24LFI
				16	20-DIP	428-1547-5-ND	2.98	1.83	1.49	CY8C22213-24PI
				16	20-SOIC	428-1549-5-ND	2.98	1.83	1.49	CY8C22213-24SI
4K	256	Yes	No	6	8-SOIC	428-1682-ND*	1.78	1.09	.89	CY8C21123-24SXI
				16	16-SOIC	428-1683-ND*	2.08	1.28	1.04	CY8C21223-24SXI
				16	20-SSOP	428-1684-ND*	2.13	1.31	1.07	CY8C21323-24PVXI
				16	24-MLF	428-1685-ND*	2.38	1.46	1.19	CY8C21323-24LFXI
				24	28-DIP	428-1556-5-ND	4.48	2.75	2.24	CY8C24423-24PI
4K	256	Yes	No	6	8-DIP	428-1602-ND*	2.95	1.77	1.48	CY8C24123A-24PXI
				6	8-SOIC	428-1603-2-ND*	3270.00/2,500			CY8C24123A-24SXI
				16	20-DIP	428-1604-ND*	3.68	2.21	1.84	CY8C24223A-24PXI
				16	20-SSOP	428-1605-ND*	3.35	2.01	1.68	CY8C24223A-24PVXI
				16	20-SOIC	428-1606-ND*	3.65	2.19	1.83	CY8C24223A-24SXI
				24	28-DIP	428-1607-ND*	4.48	2.69	2.24	CY8C24423A-24PXI
				24	28-SSOP	428-1608-ND*	3.85	2.31	1.93	CY8C24423A-24PVXI
				24	28-SOIC	428-1609-ND*	3.85	2.31	1.93	CY8C24423A-24SXI
				24	32-MLF	428-1610-ND*	4.53	2.72	2.27	CY8C24423A-24LFXI
16K	1K	Yes	Yes	50	56-MLF	428-1651-ND*	5.70	4.43	2.93	CY8C24794-24LFXI
8K	256	No	No	16	20-DIP	428-1639-ND*	5.95	4.12	3.69	CY8C26233-24PXI
				16	20-SSOP	428-1640-ND*	5.95	4.12	3.69	CY8C26233-24PVXI
				16	20-SOIC	428-1641-ND*	5.95	4.12	3.69	CY8C26233-24SXI
16K	256	Yes	No	6	8-DIP	428-1593-ND*	5.00	3.00	2.50	CY8C27143-24PXI
				16	20-SSOP	428-1594-ND*	5.40	3.24	2.70	CY8C27243-24PVXI
				16	20-SOIC	428-1595-ND*	5.40	3.24	2.70	CY8C27243-24SXI
				24	28-DIP	428-1596-ND*	5.90	3.54	2.95	CY8C27443-24PXI
				24	28-SSOP	428-1597-ND*	5.68	3.41	2.84	CY8C27443-24PVXI
				24	28-SOIC	428-1598-ND*	5.68	3.41	2.84	CY8C27443-24SXI
				40	44-TQFP	428-1599-ND*	6.93	4.16	3.47	CY8C27543-24AXI
				44	48-SSOP	428-1600-ND*	6.03	3.62	3.02	CY8C27643-24PVXI
				44	48-MLF	428-1601-ND*	6.98	4.19	3.49	CY8C27643-24LFXI
16K	256	No	No	24	28-DIP	428-1642-ND*	6.50	4.50	3.98	CY8C26443-24PXI
				24	28-SSOP	428-1643-ND*	6.15	4.26	3.82	CY8C26443-24PVXI
				24	28-SOIC	428-1644-ND*	6.18	4.28	3.83	CY8C26443-24SXI
				40	44-TQFP	428-1645-ND*	7.03	4.78	4.30	CY8C26643-24AXI
				44	48-SSOP	428-1646-ND*	6.73	4.66	4.12	CY8C26643-24PVXI
32K	2K	Yes	No	24	28-DIP	428-1586-ND*	8.78	5.27	4.39	CY8C29466-24PXI
				24	28-SSOP	428-1587-ND*	7.65	4.59	3.83	CY8C29466-24PVXI
				24	28-SOIC	428-1588-ND*	7.65	4.59	3.83	CY8C29466-24SXI
				40	44-TQFP	428-1589-ND*	8.53	5.12	4.27	CY8C29566-24AXI
				44	48-SSOP	428-1590-ND*	8.03	4.82	4.02	CY8C29666-24PVXI
				44	48-MLF	428-1591-ND*	9.15	5.49	4.58	CY8C29666-24LFXI
				64	100-TQFP	428-1592-ND*	9.78	5.87	4.89	CY8C29866-24AXI

*** RoHS Compliant**

PSoC™ ISSP (In-System Serial Programming) Programmer

The **ISSP Programmer** programs PSoC ICs with .hex files created with Cypress MicroSystems' PSoC Designer™ software. The programmer programs a PSoC chip mounted on your PCB, one at a time. It connects to your PCB with a 5-wire cable and to your PC with a USB cable. Programming operation can be automated by incorporating the programmer into a PC-based test system. The tester software communicates with the programmer-control software through a command-line interface. The ISSP programmer can also be operated manually using the supplied Windows® GUI software.

Functions: • Program • Verify • Read • Flexible Connections to Target PSoC Devices: Devices can be inserted directly into ISSP, using an on-board 48-ZIF socket, connected via a test fixture or programmed in-system on a product circuit board.

System Requirements: • Windows 98, NT, ME, 2000 or XP • CD-ROM • USB Port • 128 MB RAM

Kit Contents: • ISSP Programmer • ISSP Software CD-ROM • 6-Foot USB Cable • 2-Foot Programming Cable • 9V Power Supply • In-System Serial Programming (ISSP™) CY3207ISSP User Guide

428-1495-ND PSoC USB In-System Programmer **$263.00**

PSoC™ Evaluation Kit

CY3210-PSoCEval1: The PSoC™ Evaluation Kit features a evaluation board and MiniProg1 Programming unit. The evaluation board includes a LCD module, Potentiometer, LEDs and plenty of bread boarding space to meet all of your evaluation needs. The MiniProg1 programming unit will program PSoC devices directly on the evaluation board, or on other boards via a 5-pin header. The MiniProg1 is small and compact, and connects to the users PC via a provided USB 2.0 Cable

Kit Includes: • Evaluation board with LCD module • MiniProg1 Programming unit • PSoC Designer Software CD • CY8C29466-24PXI Samples • USB 2.0 Cable • Getting Started Guide

428-1584-ND Evaluation Kit for PSoC with MiniProg1 .... **$66.30**

CY3202-C ImageCraft C-Compiler

The **CY3202-C ImageCraft C-Compiler** is fully integrated into the PSoC Designer IDE. PSoC Designer supports C source level debugging. In order to activate the compiler, you must enable and upgrade.

Features: ANSI C-Compiler, Supports Inline Assembly and can Interface with Assembly Modules, Stack-Based, 7 Basic Data Types, Assemble and Linker, Math and String Libraries, C-Interrupt Service Routines, Librarian.

428-1413-ND Image Craft C-Compiler **$145.00**

Programming Boards

For use with the CY3205-DK Development Kit

Description	Works with Parts	Digi-Key Part No.	Price Each	Cypress Part No.
PSoC MCU 48-Pin SSOP	48-Pin SSOP Parts	428-1438-ND	76.80	CY3205-S4
PSoC MCU 44-Pin TQFP	CY8C26643-24AI CY8C27543-24AI	428-1439-ND	61.10	CY3205-S5

PSoC™ Development Kit

CY3215-DK: The PSoC™ Development Kit includes an In-Circuit Emulator (ICE) which consists of a base unit, USB 2.0 cable, and power supply. The base unit is connected to the host PC via the USB port. The ICE is driven by the Debugger subsystem of PSoC Designer. This software interface allows the user to run, halt and single step the processor. It also allows the user to set complex event points. Event points can start and stop the trace memory on the ICE, as well as break the program execution. In addition to the Development Kit, different Emulation Pods are available to support the range of devices in the PSoC family. The ICE-cube also serves as a single-site device programmer via an ISSP (In-System Serial Programming) Cable and MiniEval board included in the kit. The MiniEval board is a programming and evaluation board which connects to the ICE-Cube via an ISSP Cable and allows programming of DIP devices. There are also other Programming boards available for programming other packages.

System Requirements: • 500MHz Processor • 256MB Ram • 150MB Free Space • USB Port • Windows® 98, NT4.0, 2000, Me, XP • Internet Explorer 6.0 • Adobe Acrobat Reader

Development Kit Includes: • ICE-Cube Unit • Emulation Pod for CY8C29466-24PXI • CY8C29466-24PXI Samples • PSoC Designer Software CD • ISSP Cable • MiniEval Socket Programming and Evaluation board • Backward compatibility cable (for connecting to legacy Pods) • Power Supply European Plug Adapter • USB 2.0 Cable • Getting Started Guide • Development Kit Registration form • Image Craft C-Compiler License

428-1583-ND Development Kit for PSoC **$609.96**

PSoC™ MiniProg1

CY3210-MiniProg1: This basic evaluation kit allows a user to program PSoC devices via the MiniProg programming unit. A MiniEval board is also included in the kit. The MiniEval board is programming and evaluation board which allows socket programming of DIP devices. The MiniEval also includes LEDs and a POT for simple evaluation and demonstration, but does not include a prototyping area. The MiniProg1 utilizes a 5-pin ISSP (In-System Serial Programming) header to program PSoC Devices on the MiniEval board or directly on a users target board. The MiniProg is small and compact, and connects to the users PC via a provided USB 2.0 cable.

Kit Includes: • MiniProg Programming unit • MiniEval Socket Programming and Evaluation board • CY8C29466-24PXI Samples • PSoC Designer Software CD • Getting Started Guide • USB 2.0 Cable

428-1585-ND MiniProg1 Demo Board **$35.70**

PSoC™ Express Development Kit

CY3210-ExpressDK: The PSoC Express development kit provides a feature-rich hardware platform for developing and testing designs created with PSoC Express. This kit contains a complete PSoC Express development environment including a large, full featured development board, fan modules, proto modules, 28-DIP samples, and a MiniProg Programmer.

Kit includes: • Development Board • Four Fan Modules • Two Proto Modules • MiniProg Insystem Programmer • MiniEval PCB Evaluation Board • Power Supply • PSoC Express CD-ROM • Jumper Wire Kit • Cables • PSoC DIP Samples

428-1636-ND PSoC Express Development Kit **$509.99**
428-1637-ND Fan Module Kit **$121.38**
428-1638-ND Proto Module Kit **$67.32**

PSoC™ with USB Evaluation Kit

Special features of the board include both USB and capacitive touch sense development and debugging support. The evaluation board also includes an LCD module, Potentiometer, LEDs, an enuciator, and plenty of bread boarding space to meet all of your evaluation needs. The PSoCEvalUSB board features an on-chip debugger and can be connected directly to an ICE-Cube (available in the CY3215-DK) for full-featured, in-circuit emulation and debugging.

Kit Contents: • PSoCEvalUSB Board • LCD Module • MiniProg1 programmer • USB mini cable • Documentation and Software

428-1650-ND Evaluation Kit for CY8C24794-24LFXI **$116.46**

PSoC™ CapSense™ Kits

CY3220-FPD: This PSoC Demonstration Kit features a discrete button demonstration board for the Cypress CapSense solution. The board features eight CapSense buttons that control an LCD Module in a car radio configuration. The board is built using the CY8C21534-24PVXI PSoC, the only component necessary for sensing. The PSoC senses the presence of a finger or other capacitive element through 3mm ABS plastic.

Kit Contents: • Demonstration Board • User Guide • Documentation and Software CD • Power Supply

CY3220-SLIDER: This PSoC Demonstration Kit features a slide demonstration board for the Cypress CapSense solution. The board features a 8-pin, 16 element slider which interpolated to 100 discrete locations which are displayed on a 2-digit, 7-segment LED module. The board also features 2 discrete buttons for incremental up and down control. The board is built using the CY8C21534-24PVXI PSoC, the only component necessary for sensing. The PSoC senses the presence of a finger or other capacitive element through 1mm ABS plastic.

Kit Contents: • Demonstration Board • User Guide • Documentation and Software CD • Power Supply

CY3212-CapSense: This PSoC Training Kit includes software, hardware and example projects to help designers learn how to implement PSoC CapSense in their own design. A training board is included that is hardwired for buttons and sliders as well as LCD control and 12C communication.

Kit Contents: • Training board • PSoC Designer and Example Project CD • CSR User Module • Mini Programmer unit • LCD Module • USB Cable

428-1652-ND PSoC CapSense Demo Kit **$88.23**
428-1653-ND PSoC CapSense Slide Demo Kit **$88.23**
428-1705-ND PSoC CapSense Training Kit **$117.00**

CYPRESS
"Connecting from Last Mile To First Mile."

Emulator Pod Feet

Use to Adapt Pod to Circuit Boards

Works with Parts	Package	No. of Spare Feet	Digi-Key Part No.	Price Each	Cypress Part No.
CY8C26643	48-SSOP	5	428-1422-ND	100.00	CY3203-095
CY8C26643	44-TQFP	5	428-1423-ND	80.00	CY3203-105
CY8C27143-24PI	8-DIP	2	428-1527-ND	50.00	CY3207-012
CY8C27443-24PI	28-DIP	2	428-1528-ND	50.00	CY3207-032
CY8C27243-24SI	20-SOIC	10	428-1529-ND	100.00	CY3207-050
CY8C27243-24PVI	20-SSOP	10	428-1530-ND	100.00	CY3207-060
CY8C27443-24SI	28-SOIC	10	428-1531-ND	100.00	CY3207-070
CY8C27443-24PVI	28-SSOP	10	428-1532-ND	100.00	CY3207-080
CY8C27643-24PVI	48-SSOP	5	428-1533-ND	100.00	CY3207-095
CY8C27543-24AI	44-TQFP	5	428-1534-ND	80.00	CY3207-105
CY8C24123-24SI	8-SOIC	2	428-1561-ND	68.00	CY3208-040
CY8C24223A-24PXI	20-DIP	2	428-1686-ND	61.20	CY3208-022
CY8C29866-24AXI	100-TQFP	5	428-1693-ND	61.20	CY3230-100TQFP-AK
CY8C21234/223	16-SOIC	5	428-1694-ND	61.20	CY3230-16SOIC-AK
CY8C21334/323	20-SSOP	5	428-1695-ND	61.20	CY3230-20SSOP-AK
CY8C29466	28-DIP	5	428-1696-ND	61.20	CY3230-28DIP-AK
CY8C29433-24SXI	28-SOIC	5	428-1697-ND	61.20	CY3230-28SOIC-AK
CY8C29466-24PVXI	28-SSOP	5	428-1698-ND	61.20	CY3230-28SSOP-AK
CY8C21434/634	32-MLF	5	428-1699-ND	61.20	CY3230-32MLF-AK
CY8C29566-24AXI	44-TQFP	5	428-1700-ND	61.20	CY3230-44TQFP-AK
CY8C29666-24LFXI	48-MLF	5	428-1701-ND	61.20	CY3230-48MLF-AK
CY8C29666-24PVXI	48-SSOP	5	428-1702-ND	61.20	CY3230-48SSOP-AK
CY8C24794-24LFXI	56-MLF	5	428-1703-ND	61.20	CY3230-56MLF-AK
CY8C21123-24SXI	8-SOIC	5	428-1704-ND	61.20	CY3230-8SOIC-AK

PSoC™ Emulator Pod Kits

Works with Parts	Digi-Key Part No.	Price Each	Cypress Part No.
CY8C26xxx-24PI	428-1562-ND	48.95	CY3206-POD
CY8C26xxx-24PVI	428-1491-ND	198.00	CY3206-PVI
CY8C26xxx-24SI	428-1490-ND	114.00	CY3206-SI
CY8C27543-24AI	428-1523-ND	104.00	CY3207-AI
CY8C27xxx-24PI	428-1524-ND	147.00	CY3207-PI
CY8C27xxx DIP family	428-1522-ND	48.95	CY3207-POD
CY8C27xxx-24PVI	428-1525-ND	198.00	CY3207-PVI
CY8C27xxx-24SI	428-1526-ND	114.00	CY3207-SI
CY8C24xxxA Family	428-1654-ND	48.55	CY3208B-POD
CY8C24423A-24LFXI	428-1687-ND	75.00	CY3208B-32MLF
CY8C29866-24AXI	428-1655-ND	75.00	CY3211-100TQFP
CY8C29466-24PXI	428-1656-ND	75.00	CY3211-28PDIP
CY8C29466-24SXI	428-1657-ND	78.45	CY3211-28SOIC
CY8C29466-24PVXI	428-1658-ND	78.45	CY3211-28SSOP
CY8C29566-24AXI	428-1659-ND	75.00	CY3211-44TQFP
CY8C29666-24LFXI	428-1660-ND	75.00	CY3211-48MLF
CY8C29666-24PVXI	428-1661-ND	75.00	CY3211-48SSOP
CY8C21234-24SXI	428-1662-ND	78.50	CY3212-16SOIC
CY8C21334-24PVXI	428-1663-ND	75.00	CY3212-20SSOP
CY8C21534-24PVXI	428-1664-ND	75.00	CY3212-28SSOP
CY8C21434-24LFXI	428-1665-ND	75.00	CY3212-32MLF
CY8C21634-24LFXI	428-1666-ND	75.00	CY3212-32MLF2
CY8C21223-24SXI	428-1688-ND	75.00	CY3213-16SOIC
CY8C21323-24PVXI	428-1689-ND	75.00	CY3213-20SSOP
CY8C21323-24LFXI	428-1690-ND	75.00	CY3213-24MLF
CY8C21123-24SXI	428-1691-ND	75.00	CY3213-8SOIC
CY8C24794-24LFXI	428-1692-ND	75.00	CY3214-56MLF

FTG Programming Kits

CY3670

The CY3670 FTG programming kit provides users with a PC the ability to program Cypress EPROM Field-Programmable Clock Generators quickly and easily. The two setup requirements are a power connection and a serial port connection with the PC.

Features: • Supports multiple Cypress EPROM Field Programmable Clock Generators: CY2071AF, CY2291F, CY2292F, CY2292FZ, CY2907F8, and CY2907F14 • Separate device-specific socket adapters • Allows quick and easy prototyping • Compact design for ease of portability • Easy to use interface: Windows 95, Windows 98, and Windows NT 4.0 compatible • User-friendly CYClocks™ software for JEDEC file development **Kit Includes:** • Programmer Unit • Serial Port Cable • AC/DC Adapter • CD containing • CyClocks Software • CY_FTG_V2 Programmer Software • Data sheets of supported devices • Device-specific socket adapters for the CY2071AF and CY2292F (socket adapters for the other devices are ordered separately)

428-1457-ND FTG Programming Kit **$433.75**

CY3672

The CY3672 programming kit enables any user with a PC the ability to program Field Programmable Clock generators quickly and easily. The only two setup requirements are a power connection and a parallel port connection with the PC.

Features: • Supports Field Programmable Clock Generators: CY2077FS, CY2077FZ, CY22050F, CY22150F, CY22381F, CY22392F, CY22393F, CY22394F, and CY22395F • Allows quick and easy prototyping • Compact design for ease of portability • Easy to use Windows 95, 98, NT, 2K, ME, XP compatible interface • User friendly CYClocksRT™ software for JEDEC file development

Kit Includes: • Three Sockets: CY3695, CY3698, CY3699 • Parallel Port cable • AC/DC adapter • CD containing: CyClocksRT software, CY3672 programmer interface software, and data sheets.

428-1458-ND FTG Programming Kit **$546.25**

CPLDs

Cypress offers a wide range of Programmable Logic Devices From PALs with 10 macrocells and 200 gates up to CPLDs with 3072 macrocells and 200,000 gates.

Cypress also provides voltages ranging from 2.5V up to the typical 5.0V.

The **Cypress PAL SPLDs** are Advanced second-generation PAL architecture. They are CMOS Flash Erasable programmable array logic device. It is implemented with the familiar sum-of-products (AND-OR) logic structure and the programmable macrocell.

The Ultra37000™ family of CMOS CPLDs provides a range of high-density programmable logic solutions with unparalleled system performance. The Ultra37000 family is designed to bring the flexibility, ease of use, and performance of the 22V10 to high-density CPLDs. The architecture is based on a number of logic blocks that are connected by a Programmable Interconnect Matrix (PIM). Each logic block features its own product term array, product term allocator, and 16 macrocells. The PIM distributes signals from the logic block outputs and all input pins to the logic block inputs. All of the Ultra37000 devices are electrically erasable and In-System Reprogrammable (ISR).

The **Delta39K™ ISR™ CPLD** Family based on a 0.18 µm, six-layer metal CMOS logic process, offers a wide range of high-density solutions at unparalleled system performance. The Delta39K family is designed to combine the high speed, predictable timing, and ease of use of CPLDs with the high densities and low power of FPGAs. With devices ranging from 15,000 to 200,000 usable gates, the family features devices ten times the size of previously available CPLDs. Even at these large densities, the Delta39K family is fast enough to implement a fully synthesizable 64-bit, 66-MHz PCI core.

Voltage	Memory Type	Tpd (ns)	Macrocells	Gates	Option Power	I/O	Package	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
PAL SPLDs												
3.3	Flash	25	10	300	Standard	22	28-PLCC	428-1274-ND	3.67	2.94	2.29	PALC22V10D-25JC
ULTRA 37000 CPLDs												
3.3	Flash	12	32	960	Standard	37	44-TQFP	428-1286-ND	5.20	4.16	3.51	CY37032VP44-100AC
5.0	Flash	10	64	2000	Standard	69	100-TQFP	428-1722-ND§	11.72	9.38	7.92	CY37064P100-125AXC
5.0	Flash	10	64	2000	Standard	37	44-TQFP	428-1723-ND§	7.98	6.39	5.39	CY37064P44-125AXC
5.0	Flash	10	128	3800	Standard	133	160-TQFP	428-1290-ND	15.74	14.69	13.64	CY37128P160-125AC
5.0	Flash	10	192	5700	Standard	125	160-TQFP	428-1291-ND	22.62	21.12	19.61	CY37192P160-125AC
5.0	Flash	10	192	5700	Standard	125	160-TQFP	428-1724-ND§	30.16	24.13	20.36	CY37192P160-125AXC
5.0	Flash	10	256	7700	Standard	133	160-TQFP	428-1725-ND§	43.12	34.50	29.11	CY37256P160-125AXC
DELTA 39K ISR CPLDs												
2.5-3.3	Flash	10	1536	100K	Lp	136	208-PQFP	428-1726-ND§	95.14	76.12	64.22	CY39100V208B-125NTXC
2.5-3.3	Flash	10	3072	200K	Lp	136	208-PQFP	428-1296-ND	127.07	118.60	110.13	CY39200V208-125NTC
2.5-3.3	Flash	10	3072	200K	Lp	294	388-BGA	428-1297-ND	190.59	177.89	165.18	CY39200V388-125MGC

§ ***RoHS Compliant***

Delta39K™/Ultra37000™ ISR™ Programming Kit

Functional Description: The Delta39K/Ultra37000 ISR Programming Kit enables users to program Ultra37000, Ultra37000V, Quantum38K, Delta39K, and PSI CPLDs on board with our ISR Programming Software, the UltraISR Programming Cable, and a personal computer. The UltraISR Programming Cable connects to the parallel port of a PC into a standard 10-pin male connector mounted on the user's board. The ISR software provides an easy-to-use Graphical User Interface that accepts JEDEC or .hex files as input. The JEDEC/.hex files are used to compose platform independent STAPL files. STAPL files contain all the information.

Features: • Supports Cypress Ultra37000, Ultra37000V™, Quantum38K, Delta39K, and PSI™ families of products • STAPL programming language support • Standard JTAG programming interface • Multi-device programming • Easy to use Windows 98™, Windows 2000™, Windows ME™, and Windows NT™ compatible interface • Eliminates programming insertion to improve manufacturing efficiency • For programming in the lab, on manufacturing floor, or at remote sites • ATE support via STAPL on industry leading ATE platforms

Kit Contents: • UltraISR™ Programming Cable for use with Ultra37000, Delta39K, and PSI CPLD families • ISR Programming Software Release 3.0 • ISR Application Notes • Delta39K/Ultra37000 Prototype Board

PC System Requirements: • IBM PC or compatible running Windows 98, Windows 98 Second Edition, Windows ME, Windows NT 4.0 Service Pack 5 or later or Windows 2000 Service Pack 1 or later

- One free parallel port
- Minimum of 32MB of RAM
- Approximately 30MB free hard disk space

428-1305-ND Delta39K/Ultra37000 ISR Programming Kit **$99.00**

Warp® CPLD Development Tool for UNIX

Warp is a state-of-the-art HDL compiler for designing with Cypress Complex Programmable Logic Devices (CPLDs). Warp utilizes a subset of IEEE 1076/1164 VHDL and IEEE 1364 Verilog as its Hardware Description Languages (HDL) for design entry. Then, it synthesizes and optimizes the entered design, and outputs a JEDEC or Intel hex file for the desired PLD or CPLD. Warp also accepts VHDL or Verilog produced by the Active-HDL FSM graphical Finite State Machine editor. For simulation, Warp provides a timing simulator, as well as VHDL and Verilog timing models for use with third party simulators.

Supports for the following Cypress Programmable Logic Devices:
• PSI™ (Programmable Serial Interface™) • Delta39K CPLDs • Quantum38K™ CPLDs • Ultra37000 CPLDs • FLASH370i™ CPLDs • MAX340™ CPLDs • Industry-standard PLDs (16V8, 20V8, 22V10)

System Requirements:
• 32 MB of RAM (64 MB recommended) • 110 MB Disk Space • CD-ROM drive • Solaris 2.5 or later

Warp includes:
• CD-ROM with Warp and on-line documentation (Getting Started Manual, User's Guide, HDL Reference Manual) • VHDL for Programmable Logic Textbook • Registration Card

Product Code Description:
CY3125R62 Warp Development System for UNIX

428-1302-ND Warp CPLD Development Tool Kit.. **$99.00**

"Connecting from Last Mile To First Mile."

CY7C6XXX Series Of USB Microcontrollers

Cypress offers the industry's broadest line of USB microcontrollers, as well as a full set of development tools, supporting cost-driven applications such as keyboards and mice, as well as high-performance application like printers, scanners, xDSL modems, and digital cameras. Cypress has a wide range of solutions for Low-Speed USB applications, Full-Speed USB Applications and USB Hub Applications. Temperature range, commercial (0°F ~ 70°F).

The CY7C63xxx is a family of 8-bit RISC One Time Programmable (OTP) microcontrollers. In addition, the microcontroller features 96 ~ 256 bytes of internal RAM depending on the device. The Cypress USB Controller accepts a 6-MHz ceramic resonator as its clock source. This clock signal is doubled within the chip to provide a 12-MHz clock for the microprocessor.

The CY7C64013 and CY7C64113 are 8-bit One Time Programmable microcontrollers that are designed for full-speed USB applications. The instruction set has been optimized specifically for USB operations, although the microcontrollers can be used for a variety of non-USB embedded applications.

The CY7C647XX (EZ-USB FX1™) is a family of full-speed highly integrated, USB Microcontrollers. the FX1 family integrates the USB transceiver, serial interface engine (SIE), enhanced 8051 microcontroller, and a programmable peripheral interface in a single chip. The General Programmable Interface (GPIF) and Master/Slave Endpoint FIFO (8- or 16-bit data bus) provides an easy and glueless interface to popular interfaces such as ATA, UTOPIA, EPP, PCMCIA, and most DSP/processors.

The CY7C65 Series offers high-performance, fixed-function Universal Serial Bus (USB) hub devices which comply with USB Specification, Revision 1.1. Up to four downstream USB ports are available to expand the USB attachment points available in your PC system. These self-contained devices require no firmware development for your design, thereby reducing the design risk associated with some microcontroller solutions. These Application-Specific Standard Products (ASSP) can improve time-to-market in a number of USB designs, including standalone hubs, motherboard hubs, and monitor hubs.

The CY7C68013-56PVC (EZ-USB FX2) is a single-chip integrated USB 2.0 Transceiver, Serial Interface Engine (SIE), and Enhanced 8051 Microprocessor, High Speed 480Mbits/sec. Enhanced 8051 microcontroller, and a programmable peripheral interface in a single chip. Integrated I^2C-compatible controller, runs at 100 or 400 kHz, 48-MHz, 24 MHz, or 12 MHz 8051 operation. Four integrated FIFOs, brings glue and FIFO inside for lower system cost. Automatic conversion to and from 16-bit buses, master or slave operation. FIFOs can use externally supplied clock or asynchronous strobes. Easy interface to ASIC and DSP ICs, up to 40 general purpose I/Os.

The SL811HS is a single-chip, dual-speed USB Embedded Host controller that can operate as either a USB Host or USB peripheral device. The SL811HS can interface to devices such as microprocessors, microcontrollers, DSPs or directly to a variety of buses such as ISA, PCMCIA and others.

Memory Size Prom	Ram	Speed EXT Oscillator	Configuration	USB Application Speed	Number I/O	Core Arch.	Temperature Range	Voltage	Pin Count Package	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
Low Speed USB Microcontrollers														
4K	128	6-MHz Resonator	OTP	1.5-Mbps	12	M-8	0°C ~ 70°C	4.0 ~ 5.25	20-DIP	428-1616-ND*	3.30	2.05	1.65	CY7C63001A-PXC
4K	128	6-MHz Resonator	OTP	1.5-Mbps	12	M-8	0°C ~ 70°C	4.0 ~ 5.25	20-SOIC	428-1313-ND	3.30	2.05	1.65	CY7C63001A-SC
4K	128	6-MHz Resonator	OTP	1.5-Mbps	12	M-8	0°C ~ 70°C	4.0 ~ 5.25	20-SOIC	428-1617-ND*	3.30	2.05	1.65	CY7C63001A-SXC
4K	128	6-MHz Resonator	OTP	1.5-Mbps	16	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-QSOP	428-1314-ND	3.90	2.40	1.95	CY7C63101A-QC
4K	128	6-MHz Resonator	OTP	1.5-Mbps	16	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-QSOP	428-1618-ND*	3.90	2.40	1.95	CY7C63101A-QXC
3K	96	6-MHz Resonator	OTP	1.5-Mbps	10	M-8	0°C ~ 70°C	4.0 ~ 5.25	16-DIP	428-1316-ND	3.23	1.98	1.62	CY7C63221A-PC
3K	96	6-MHz Resonator	OTP	1.5-Mbps	12	M-8	0°C ~ 70°C	4.0 ~ 5.25	18-SOIC	428-1719-5-ND*	2.64	2.12	1.79	CY7C63231A-SXC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	32	M-8	0°C ~ 70°C	4.0 ~ 5.25	40-DIP	428-1619-ND*	4.28	2.65	2.14	CY7C63413-PXC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	32	M-8	0°C ~ 70°C	4.0 ~ 5.25	48-SSOP	428-1319-ND	4.28	2.65	2.14	CY7C63413-PVC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	11	M-8	0°C ~ 70°C	4.0 ~ 5.25	18-DIP	428-1322-ND	3.60	2.25	1.80	CY7C63723-PC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	11	M-8	0°C ~ 70°C	4.0 ~ 5.25	18-DIP	428-1620-ND*	3.60	2.25	1.80	CY7C63723-PXC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	11	M-8	0°C ~ 70°C	4.0 ~ 5.25	18-SOIC	428-1323-ND	3.60	2.25	1.80	CY7C63723-SC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	11	M-8	0°C ~ 70°C	4.0 ~ 5.25	18-SOIC	428-1720-5-ND*	2.88	2.31	1.95	CY7C63723-SXC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	17	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-DIP	428-1324-ND	3.88	2.40	1.94	CY7C63743-PC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	17	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-DIP	428-1621-ND*	3.88	2.40	1.94	CY7C63743-PXC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	17	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-SOIC	428-1325-ND	3.88	2.40	1.94	CY7C63743-SC
8K	256	6-MHz Resonator	OTP	1.5-Mbps	17	M-8	0°C ~ 70°C	4.0 ~ 5.25	24-SOIC	428-1622-ND*	3.88	2.40	1.94	CY7C63743-SXC
Medium Performance Full-Speed Microcontrollers														
8K	256	6-MHz Xtal	OTP	12-Mbps	19	M-8	0°C ~ 70°C	4.0 ~ 5.25	28-SOIC	428-1634-ND	5.02	4.02	3.39	CY7C64013A-SXC
8K	256	6-MHz Xtal	OTP	12-Mbps	19	M-8	0°C ~ 70°C	4.0 ~ 5.25	28-DIP	428-1635-ND	5.04	4.04	3.41	CY7C64013A-PXC
EZ-USB FX1™ Full-Speed USB														
—	16K	24-MHz Xtal	Ram	12-Mbps	40	8051	0°C ~ 70°C	3.3	128-TQFP	428-1678-ND	10.13	6.25	5.07	CY7C64713-128AXC
—	16K	24-MHz Xtal	Ram	12-Mbps	40	8051	0°C ~ 70°C	3.3	100-TQFP	428-1679-ND	9.55	5.95	4.78	CY7C64713-100AXC
—	16K	24-MHz Xtal	Ram	12-Mbps	24	8051	0°C ~ 70°C	3.3	56-QFN	428-1680-ND	8.65	5.40	4.33	CY7C64713-56FXC
USB 2.0 (High Speed)														
—	16K	24-MHz Xtal	Ram	12/480-Mbps	40	8051	0°C ~ 70°C	3.3	100-TQFP	428-1667-ND*	15.93	9.85	7.97	CY7C68013A-100AXC
—	16K	24-MHz Xtal	Ram	12/480-Mbps	40	8051	0°C ~ 70°C	3.3	128-TQFP	428-1668-ND*	16.88	10.40	8.44	CY7C68013A-128AXC
—	16K	24-MHz Xtal	Ram	12/480-Mbps	24	8051	0°C ~ 70°C	3.3	56-QFN	428-1669-ND*	15.08	9.30	7.54	CY7C68013A-56LFXC
—	16K	24-MHz Xtal	Ram	12/480-Mbps	24	8051	0°C ~ 70°C	3.3	56-SSOP	428-1627-ND*	14.40	8.95	7.80	CY7C68013A-56PVXC
—	16K	24-MHz Xtal	Ram	12/480-Mbps	40	8051	0°C ~ 70°C	3.3	100-TQFP	428-1670-ND*	18.33	11.30	9.17	CY7C68014A-100AXC
—	16K	24-MHz Xtal	Ram	12/480-Mbps	40	8051	0°C ~ 70°C	3.3	128-TQFP	428-1671-ND*	19.43	12.00	9.72	CY7C68014A-128AXC
—	16K	24-MHz Xtal	Ram	12/480-Mbps	24	8051	0°C ~ 70°C	3.3	56-QFN	428-1672-ND*	17.35	10.70	8.68	CY7C68014A-56LFXC
—	16K	24-MHz Xtal	Ram	12/480-Mbps	24	8051	0°C ~ 70°C	3.3	56-SSOP	428-1673-ND*	16.58	10.25	8.29	CY7C68014A-56PVXC
—	16K	24-MHz Xtal	Ram	12/480-Mbps	26	8051	0°C ~ 70°C	3.3	56-QFN	428-1674-ND*	15.80	9.80	7.90	CY7C68015A-56LFXC
—	16K	24-MHz Xtal	Ram	12/480-Mbps	26	8051	0°C ~ 70°C	3.3	56-SSOP	428-1675-ND*	15.13	9.30	7.57	CY7C68015A-56PVXC
—	16K	24-MHz Xtal	Ram	12/480-Mbps	26	8051	0°C ~ 70°C	3.3	56-QFN	428-1676-ND*	18.18	11.25	9.09	CY7C68016A-56LFXC
USB HUB and Integrated HUB Solutions														
8K	256	6-MHz Xtal	OTP	12-Mbps Hub	11 (7-port)	M-8	0°C ~ 70°C	3.3	28-SOIC	428-1647-ND*	5.60	3.88	3.48	CY7C65113A-SXC
USB Host/Slave Controller														
—	256	12-48 MHz Xtal	Ram	1.5-12 Mbps	8	No CPU	0°C ~ 65°C	3.3	28-PLCC	428-1463-ND	8.56	6.85	5.78	SL811HST-AC
—	256	12-48 MHz Xtal	Ram	1.5-12 Mbps	8	No CPU	0°C ~ 65°C	3.3	48-TQFP	428-1464-ND	8.36	6.69	5.65	SL811HST-AC
—	256	12-48 MHz Xtal	Ram	1.5-12 Mbps	8	No CPU	0°C ~ 65°C	3.3	48-TQFP	428-1721-ND*	8.36	6.69	5.65	SL811HST-AXC

** RoHS Compliant*

CYPRESS
"Connecting from Last Mile To First Mile."

CY7B923 HOTLink

The **CY7B923 HOTLink Transmitter and CY7B933 HOTLink Receiver** are point-to-point communications building blocks that transfer data over high-speed serial links (fiber, coax, and twisted pair). Standard HOTLink data rates range from 160-330 Mbits/second. Higher speed HOTLink is also available for high-speed applications (160-400 Mbits/second), as well as for those low-cost applications HOTLink-155 (150-160 Mbits/second operations).

Features:

- Fibre-Channel compliant
- IBM ESCON compliant
- DVB-ASI compliant
- ATM compliant
- 8B/10B coded or 10-bit unencoded
- Standard HOTLink: 160–330 Mbps
- High-speed HOTLink 160–400 Mbps for high-speed applications
- Low-speed HOTLink: 150–160 Mbps for low-cost fiber

Applications:

- TTL synchronous I/O
- No external phase-locked-loop (PLL) components
- Triple PECL 100K serial outputs
- Dual PECL 100K serial inputs
- Low power: 350mW (Tx), 650mW (Rx)
- Compatible with fiber optic modules, coaxial cable, and twisted pair media
- Built-In Self-Test
- Single +5V supply
- 28-pin SOIC/PLCC/LCC
- 0.8 BiCMOS

Description	Package	Digi-Key Part No.	Price Each 1	25	100	Cypress Part No.
Transmitter, Standard Speed	28-PLCC	428-1706-5-ND§	56.20	44.96	37.94	CY7B923-JXC
	28-SOIC	428-1707-5-ND§	56.20	44.96	37.94	CY7B923-SXC
Receiver, Standard Speed	28-PLCC	428-1708-5-ND§	56.20	44.96	37.94	CY7B933-JXC
	28-SOIC	428-1709-5-ND§	56.20	44.96	37.94	CY7B933-SXC

§ ***RoHS Compliant***

Developer Kits

CY3674

The development kits for the EZ-USB FX1™ family provide complete hardware and software solutions for accelerating the firmware and device driver development for all the products in the family. The development kits use the actual silicon for the entire development. Cypress's software utilities and example of firmware allow the user to generate USB traffic in hours, not weeks! Cypress includes an evaluation version of the 8051 Keil Software Tools in the Full Speed USB 2.0 development kit. The evaluation version of the C-Compiler lets the designer write 8051 microcontroller applications in C and still get the efficiency and speed of assembly language. Advanced features from Keil Tools include the ability to single step through code. This makes it easy to detect errors, handle source level debugging, and set breakpoints. With the ability to debug code one line at a time and to quickly compile and one-step download new code, developers have a more efficient means to complete firmware faster than using emulators. The supplied Keil Tools are fully functional, but are limited in object size to 4 kilobytes.

Devices Supported:

CY7C64713-56LFXC, CY7C64713-100AXC, CY7C64713-128AXC

Kit Includes:

- EZ-USB Development Board with CY7C64713-128AXC
- Peripheral Board for prototyping
- USB cable
- RS-232 9-pin to 9-pin cable

428-1681-ND	EZ-USB FX1 Development Kit	**$490.00**

CY3650

The Cypress USB Developer's Kit is a powerful tool that enables customers to develop USB hardware and firmware with emulated Cypress USB ICs. The development system can be run in two modes. In the typical development system environment, the board is controlled through a PC-based interface. Software running on the PC facilitates debugging through breakpoints, single stepping, and display and modification of registers and data RAM. In this mode, firmware can be implemented in on-board EPROM, or downloaded to program RAM. The RAM option provides a quick and easy method for testing firmware revisions.

Devices Supported:

CY7C63101A-SC

Kit Includes:

- CY3650 USB Development Board
- Power supply
- USB cable
- RS-232 9-pin to 9-pin cable
- 9-pin to 25-pin adapter

428-1342-ND	USB Development Kit-LO Speed, Low I/O	**$513.56**

CY3684

The CY3684 development kit for the EZ-USB FX2LP™ family provides complete hardware and software solutions for accelerating the firmware and device driver development for all of the products in the family. The development kits use the actual silicon for the entire development. Cypress's software utilities and example firmware allow the user to generate USB traffic in hours, not weeks! Cypress includes an evaluation version of the 8051 Keil Software Tools. The evaluation version of the C-Compiler lets the designer write 8051 microcontroller applications in C and still get the efficiency and speed of assembly language. The supplied Keil tools are fully functional, but are limited in object size to 4 kilobytes.

Kit includes:

- EZ-USB development board
- Peripheral board for prototyping
- USB cable
- RS232 9-pin to 9-pin cable

428-1677-ND	Development Kit for EZ-USB FX2LP	**$525.00**

CY3654

CY3654 Base-Board:
Common base board for a variety of our M8 Series products. To emulate a specific USB device within a family, the appropriate personality board needs to be purchased (CY3654-Pxx). Each USB family will have a unique personality board. The base board will only work when supplemented by one of the family specific personality boards. CY3654 Development Kit includes a CY3654 Base board, a RS-232 Cable, and a Power Supply.

Personality Boards:
Cypress offers a variety of Personality Boards that accompany the CY3654 Base Board for use in specific applications.

Kits Includes:

- CY3654Px00 Personality Board
- CY3654Dx00 Applications Board
- Target µC Adapters
- Target Flex Cable
- Application Cables

The following is a list of current offerings:

CY3654 and CY3654-P02:
Base Board and Personality Board is a development environment in support of a variety of applications such as keyboards and other low speed devices requiring more I/O. The CY3654 and CY3654-P02 is designed for use with Cypress's CY7C634XX, CY7C635XX, and CY7C636XX M8 based parts.

CY3654 and CY3654-P03:
Base Board and Personality Board is a development environment in support of a variety of applications such as full-speed peripherals, hubs, and hub plus integrated peripheral applications. The CY3654 and CY3654-P03 is designed for use with Cypress's CY7C64x13 (full-speed), CY7C65x13 and CY7C66x13 (hubs) M8 based parts.

CY3654 and CY3654-P05:
Base Board and Personality Board is a development environment in support of a variety of applications such as mice or other low speed USB peripherals. The CY3654 and CY3654-P05 is designed for use with Cypress's CY7C632XXA, and CY7C637XX M8 based parts.

Note: A Complete Development Kit consists of the Base Board plus a Personality Board. Other Personality Boards can be used with the same CY3654 Base Board. Please specify both the base-board CY3654, and Personality board CY3654-P02, when ordering this particular kit.

Description	Devices Supported	Digi-Key Part No.	Price Each	Cypress Part No.
Base Board	All USB Personality Boards CY series	428-1337-ND	868.75	CY3654
Personality Board	CY7C634XX, CY7C635XX and CY7C636XX	428-1338-ND	400.00	CY3654-P02
	CY7C64X13 (full-speed), CY7C65X13 and CY7C66X13	428-1339-ND	720.00	CY3654-P03
	CY7C632XXA and CY7C637XX	428-1340-ND	400.00	CY3654-P05

SL11R-DK

The SL11R from Cypress, is a low cost, full speed Universal Serial Bus (USB) RISC based Controller. The SL11R contains a 16-bit RISC processor with built-in BIOS ROM that greatly reduces firmware development time. This unique architecture provides the ability to upgrade products, in the field, without changing the peripheral hardware. The processor can execute code either from internal ROM/RAM or external DRAM, SRAM and ROM. • Email support

Kit Includes: • HW reference design for SL11R evaluation board • Assembler/Debugger and built in emulator • Application notes • BIOS ROM information • System Software demo program source code • Generic WDM mini-port driver for WIN98/2000-object code • 2 sample chips

Devices Supported: SL11R-IDE

428-1344-ND	SL11 Development Tools	**$495.00**

NEW! CY3655

The enCoRe™ II development system, based on the highly refined PSoC™ (Programmable System-on-Chip™) tools, supplies the user with an incircuit emulator (ICE) that works in conjunction with actual silicon to provide an accurate and efficient development system. The PSoC Designer™ software consists of a graphical user interface, assembler, C-Compiler, linker and debugger for a highly integrated code development environment. A compliant USB "User Module" along with PS/2 and other peripheral User Modules simplifies the learning curve and speeds development time.

Kit Includes: Application Board enCoRe II Pod, Wireless enCoRe II Pod, PDIP feet, Modular Programmer base board, programming adapter plug, USB cable PS/2 male to male cable, Software, printed documentation.

428-1773-ND	Development Kit for enCoRe II	**$947.00**
428-1774-ND	Extension Kit for enCoRe II	**$349.00**

TOSHIBA

8-Bit Flash Microcontrollers

Toshiba 8-bit microcontrollers feature low-power consumption and low voltage operation. The on-chip peripherals options include LCD, VFT and LED display drivers. The 870/C series has a single register bank to increase C-Compiler efficiency.

Features:
• Minimum Instruction cycle time: 0.25µs at 16MHz • Low-power modes including HALT, IDLE and clock gear and dual clocks • Powerful instruction set with 731 instructions including multiply, divide, 16-bit operations, bit manipulations, etc. • On-chip peripherals including A/D, PWM, UARTS and LCD • Operating Temperature: -40° ~ 85°C

Kits Include:
Evaluation Board, C-Compiler (3000 lines per module), Assembler, Linker, RS-232 Cable, Batteries, Quick Start Guide, Datasheet, Manuals, CD with Tools

Memory Size EPROM	RAM	I/O	Supply Voltage	Package	Digi-Key Part No.	Price Each 1	25	100	Toshiba Part No.
32K	2K	39	1.8 ~ 3.6	64-QFP	TMP86FM29FG-ND	5.60	4.48	3.49	TMP86FM29FG
32K	2K	39	1.8 ~ 3.6	64-LQFP	TMP86FM29UG-ND	5.60	4.48	3.49	TMP86FM29UG
32K	2K	56	1.8 ~ 3.6	64-QFP	TMP86FM48FG-ND	8.00	6.40	5.40	TMP86FM48FG
32K	2K	56	1.8 ~ 3.6	64-LQFP	TMP86FM48UG-ND	7.90	6.32	5.34	TMP86FM48UG
48K	2K	48	1.8 ~ 3.6	80-LQFP	TMP86FP24F-ND	6.28	5.03	4.24	TMP86FP24F
48K	2K	48	1.8 ~ 3.6	80-LQFP	TMP86FP24FG-NDΔ ***NEW!***	6.28	5.03	4.24	TMP86FP24FG
8K	256	22	2.7 ~ 5.5	30-SSOP	TMP86F807MGEY-ND	5.40	4.32	3.36	TMP86F807MG (EY)
8K	256	24	2.7 ~ 5.5	30-SSOP	TMP86F808DMGEY-ND	5.40	4.32	3.36	TMP86F808DMG (EY)
16K	512	35	2.7 ~ 5.5	44-LQFP	TMP86FH47UG-ND	6.12	4.90	4.14	TMP86FH47UG
60K	1K	55	2.7 ~ 5.5	80-LQFP	TMP86FS27FG-ND	9.48	7.59	6.40	TMP86FS27FG
60K	2KB	56	2.7 ~ 5.5	60-QFP	TMP86FS49AFGZ-NDΔ ***NEW!***	5.20	4.16	3.51	TMP86FS49AFG (Z)
60K	2KB	56	2.7 ~ 5.5	60-LQFP	TMP86FS49AUGJZ-NDΔ ***NEW!***	5.20	4.16	3.51	TMP86FS49AUG (JZ)
86FH47 Starter Kit					BMSKTOPASFM47AND-ND	103.50	96.60	89.70	BMSKTOPASFM47(AND)
86FM29 Starter Kit					BMSKTOPASFMA-ND	103.50	96.60	89.70	BMSKTOPASFM29(AND)
86FM29 Starter Kit					BMSKTOPASFM48AND-ND	104.93	97.93	90.94	BMSKTOPASFM48(AND)
TMP86FS49 Evaluation Kit					BMSKTOPAS86FS49A-NDΔ ***NEW!***	103.50	96.60	89.70	BMSKTOPAS86FS49 (A)

Δ ***RoHS Compliant***

Microcontrollers 8-Bit 8051-Compatible

The 8051 microcontroller family remains one of the most popular processors in the world. Its ease of use and relatively high performance make it ideal for many applications, including portable and handheld products. The introduction of a new line of high-performance derivatives has many positive implications for improving the power efficiency of 8051-based designs. First, the use of a high-speed 8051 microcontroller can significantly improve power efficiency. A high performance CPU allows the processor clock to be slowed, resulting in the same level of performance at less power. Alternatively, the performance of an existing system can be increased without increasing power consumption. Second, a device which incorporates all needed peripherals should be selected if possible. This includes program memory, which is not commonly considered a peripheral. If extra data memory is required, a device such as the DS87C520 should be used, which incorporates 1 Kbyte of internal MOVX SRAM. One of the strengths of the 8051 product family is the wide variety of on-chip peripherals. Features such as watchdog timers, additional UARTs, and precision reset circuits are available on high-speed microcontrollers. The introduction of two new low-power modes provides a low-power alternative to the Idle mode. In addition to reducing current consumption, Power Management Modes such as those used in the DS87C520 High-Speed Microcontroller allow the processor to perform tasks such as polling while in a low state. Conventional 8051 architectures require the processor to operate at the maximum clock rate, even if only minimal processing power is required.

Internal Program Memory	Internal MOVX SRAM	Serial Ports	16-Bit Timers	Data Pointers	Watch-dog	Power Fail Reset and Interrupt	Power Mgmt. Mode	Ring Osc.	Supply Voltage (V)	Feature	Speed (MHz)	Package	Digi-Key Part No.	Price Each 1	25
16kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	40-CDIP	DS87C520-WCL-ND	70.49	53.20
16kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-PLCC	DS87C520-QNL-ND	48.84	36.86
16kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-PLCC	DS87C520-QNL+-ND◊ ***NEW!***	48.84	36.86
16kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-PLCC	DS87C520-QCL-ND	42.29	31.92
16kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-PLCC	DS87C520-QCL+-ND◊ ***NEW!***	42.29	31.92
16kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	40-DIP	DS87C520-MNL-ND	47.83	36.10
16kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	40-DIP	DS87C520-MCL-ND	41.55	31.36
16kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	40-DIP	DS87C520-MCL+-ND◊ ***NEW!***	44.20	33.36
16kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-TQFP	DS87C520-ECL+-ND◊ ***NEW!***	44.31	33.44
16kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	52-PLCC	DS87C530-QNL-ND	54.38	41.04
16kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	52-PLCC	DS87C530-QCL+-ND◊ ***NEW!***	47.33	35.72
8kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	87C52 Compatible	33	68-PLCC	DS87C550-QCL-ND	41.29	31.16
8kB EPROM	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	87C52 Compatible	33	68-PLCC	DS87C550-QCL+-ND◊ ***NEW!***	41.29	31.16
ROM-less	—	1	3	2	No	No	No	No	4.5 ~ 5.5	80C32 Compatible	25	44-PQFP	DS80C310+FCG-ND◊	12.83	12.38
ROM-less	—	1	3	2	No	No	No	No	4.5 ~ 5.5	80C32 Compatible	25	40-DIP	DS80C310-MCG+-ND◊ ***NEW!***	14.10	10.64
ROM-less	—	1	3	2	No	No	No	No	4.5 ~ 5.5	80C32 Compatible	25	44-PLCC	DS80C310-QCG+-ND◊ ***NEW!***	12.72	9.60
ROM-less	—	2	3	2	Yes	Yes	No	Yes	4.5 ~ 5.5	80C32 Compatible	25	44-TQFP	DS80C320-ECG-ND	22.15	16.72
ROM-less	—	2	3	2	Yes	Yes	No	Yes	4.5 ~ 5.5	80C32 Compatible	25	44-TQFP	DS80C320-ECG+-ND◊ ***NEW!***	22.15	16.72
ROM-less	—	2	3	2	Yes	Yes	No	Yes	4.5 ~ 5.5	80C32 Compatible	25	40-DIP	DS80C320-MCG+-ND◊ ***NEW!***	14.84	11.20
ROM-less	—	2	3	2	Yes	Yes	No	Yes	4.5 ~ 5.6	80C32 Compatible	33	40-DIP	DS80C320-MCL+-ND◊ ***NEW!***	20.14	15.20
ROM-less	—	2	3	2	Yes	Yes	No	Yes	4.5 ~ 5.6	80C32 Compatible	25	40-DIP	DS80C320-MNG-ND	20.14	15.20
ROM-less	—	2	3	2	Yes	Yes	No	Yes	4.5 ~ 5.6	80C32 Compatible	25	44-PLCC	DS80C320-QCG+-ND◊ ***NEW!***	19.13	14.44
ROM-less	—	2	3	2	Yes	Yes	No	Yes	4.5 ~ 5.6	80C32 Compatible	33	44-PLCC	DS80C320-QCL+-ND◊ ***NEW!***	22.15	16.72
ROM-less	—	2	3	2	Yes	Yes	No	Yes	4.5 ~ 5.5	80C32 Compatible	33	44-PLCC	DS80C320-QNG+-ND◊ ***NEW!***	22.15	16.72
64kB ROM	1kB	3	4	4	Yes	Yes	Yes	No	1.8 ~ 3.3	80C32 Compatible	75	100-LQFP	DS80C400-FNY+-ND◊	16.13	15.56
64kB Flash	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	44-PLCC	DS89C450+QNL-ND	22.39	16.90
64kB Flash	1kB	2	3	2	Yes	Yes	Yes	Yes	4.5 ~ 5.5	80C52 Compatible	33	40-DIP	DS89C450+MNL-ND	22.55	17.02

◊ ***RoHS Compliant***

DS80C400 Evaluation Kit

The DS80C400 Evaluation Kit (EV kit) is a proven platform to conveniently evaluate the capabilities of the DS80C400 networked microcontroller. This kit contains the DSTINIm400 evaluation module, a fully functional and tested reference design based on the DS80C400 networked microcontroller.

In addition, the kit contains the DSTINIs400 sockets board, which functions as the motherboard designed to host the DSTINIm400 evaluation module. **Kit Includes:** • DSTINIm400 Reference Board • DSTINIs400 Socket Board • DS80C400 Software CD-ROM • Quick Start Guide • 9-Pin Serial Cable • Ethernet Cable

DS80C400-KIT-ND Evaluation Kit for DS80C400 .... **$192.00**

DS89C450 Evaluation Kit

The DS89C450-K00 Evaluation Kit is a proven platform to conveniently evaluate the capabilities of the Ultra-High-Speed Flash Microcontroller family. The kit contains the DS89C450 in a DIP-40 socket, 128K of SRAM mapped through a preprogrammed CPLD, a power-supply regulator, two DB-9 serial connectors, and switches and LEDs to control and display board operation. With the addition of a power-supply and an RS-232 cable connected to a personal computer, the kit provides a completely functional system ideal for application development and debug. The DS89C450-K00 can also be used as a programming and development platform for the DS5000(T). Quick-start instructions and sample programs can be obtained from the DS5000 directory on the software tool disk. **Kit Includes:** • DS89C450 Evaluation Board • Power Supply • RS-232 Cable • Quick Start Guide and Software

DS89C450-K00-ND Evaluation Kit for DS89C450 .... **$151.30**

Soft Microcontroller Module

DS5000(T) Soft Microcontroller Module is a fully 8051-compatible 8-bit CMOS microcontroller that offers “softness” in all aspects of its application. This is accomplished through the comprehensive use of nonvolatile technology to preserve all information in the absence of system Vcc. The internal program/data memory space is implemented using either 8 or 32 K-bytes of nonvolatile CMOS SRAM. Internal data and key configuration registers are also nonvolatile. An optional real time clock gives permanently powered timekeeping. The clock keeps time to a hundredth of a second using an onboard crystal. **DS2250-32** has the same features as the DS5000 but with an added feature. The program/data memory space is implemented using 8, 32, or 64 Kbytes of nonvolatile CMOS SRAM. An optional real time clock gives permanently powered timekeeping. The clock keeps time to a hundredth of a second using an on-board crystal. ***Note:*** All nonvolatile memory and resources are maintained for over 10 years at room temperature in the absence of power.

Module with Internal Battery	NV RAM	Real-Time Memory Encryption Key	Real-Time Clock	Package	Speed	Digi-Key Part No.	Price Each 1	25
Yes	32K x 8 Int.	40-Bit User Defined	No	40-EDIP	16MHz	DS5000-32-16-ND	125.88	95.00
Yes	32K x 8 Int.		Yes	40-EDIP	16MHz	DS5000T-32-16-ND	138.46	104.50
Yes	64K x 8 Int.		Yes	40-SIMM	16MHz	DS2250-32-16-ND	95.67	72.20

MAXQ™ 16-Bit RISC Microcontrollers

The MAXQ family of 16-bit reduced instruction set computing (RISC) microcontrollers is targeted toward low-cost, low-power, embedded-application designs. The flexible, modular architecture design used in these microcontrollers allows development of targeted designs for specific applications with minimal effort. Microcontrollers in the MAXQ family provide many different combinations of program memory, data memory, and peripherals while supporting a common feature set. This shared functionality provides maximum reusability for hardware and software systems developed using these microcontrollers.

Internal Program Memory	Internal MOVX SRAM	Serial Ports	1-Wire Master	Timers	PWM	Data Pointers	Watchdog	Power Management Mode	Ring Osc.	LCD	LCD Segments	ADC Resolution	Supply Voltage	Package	Digi-Key Part No.	Price Each 1	25	50	Dallas Part No.
64kB Flash	2kB	2	Yes	3 x 16-Bit	3	3	Yes	Yes	Yes	Yes	132	—	1.8 ~ 2.75	68-QFN	MAXQ2000-RAX+-ND	8.11	6.12	4.00	MAXQ2000-RAX+
32kB Flash	512B	2	—	3 x 16-Bit	3	3	Yes	Yes	Yes	Yes	112	16 Bits	3.0 ~ 3.6	80-MQFP	MAXQ3120-FFN+-ND	11.55	8.72	5.80	MAXQ3120-FFN+

MAXQ2000 Evaluation Kit

The MAXQ2000 Evaluation Kit (EV kit) is a proven platform to conveniently evaluate the capabilities of the MAXQ2000 low-power LCD microcontroller. The kit contains the MAXQ2000 with pins brought out to headers, a JTAG programming interface, fixed and adjustable power supplies, a DB-9 serial connector, an LCD display, and switches and LEDs to control and display board operation. **Kit Includes:** • MAXQ2000 Evaluation Kit Board • Serial-to-JTAG Interface Board • JTAG Cable • MAXQ2000 LCD Display Daughterboard • MAXQ2000 Evaluation Kit CD-ROM

MAXQ2000-KIT-ND Evaluation Kit for MAXQ2000 .... **$132.00**

MAXQ3120 Evaluation Kit

The MAXQ3120 Evaluation Kit (EV kit) is a proven platform to conveniently evaluate the capabilities of the MAXQ3120 dual analog-to-digital converter (ADC) microcontroller. The kit contains the MAXQ3120 with the ADC inputs and spare GPIO pins brought out to headers, a JTAG programming interface, an on-board 3.3V power supply, and a 3.5 digit LCD. **Kit Includes:** • MAXQ3120 Evaluation Board • Serial-to-JTAG (MAXQJTAG) Interface Board • Serial Cable • JTAG Cable • MAXQ3120 Evaluation Kit CD • Third Party Compiler Tools Evaluation CD

MAXQ3120-KIT-ND Evaluation Kit for MAXQ3120 .... **$132.00**

NEW! FDI LCD Demo Kit

The LCD Demo Kit is a reference design for a low-cost microcontroller and LCD solution. The Demo Board is controlled by a simple two-button user interface (MODE and SELECT). The Demo Board CD includes example code for several sample applications: an FM Radio display during a simulated channel scan, a 15 minute count down timer, a repeating pattern of 4 text lines and a scrolling message window. The user can edit this code and download to the reprogrammable Flash microcontroller via a 10-pin header included on the board using any external ICP style programmer.

622-1003-ND (LCD-DEMO-KIT) **$49.00**

NEW! Programmer Kits

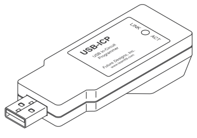

USB-ICP supports In-Circuit Programming or ICP mode on Philips microcontroller families such as the LPC9xx and the 80C51. In-Circuit Programming uses a two-wire serial interface to program and erase ICP enabled microcontroller devices without removing them from the system. A small connector is all that is needed to interface your application to the USB-ICP programmer. **Supports**: Philips' P89LPC900 AND P89C51 families of microcontrollers **Features**: USB port power so no external power supply required, Supports USB 2.0 **Includes**: USB-ICP dongle, 18” cable for direct connection to board, ICP design guide

622-1001-ND (USB-ICP-80C51ISP) **$69.00**
622-1002-ND (USB-ICP-LPC9XX) **$69.00**

LPC2000/8051 Microcontrollers

LPC2000 ARM 7 Microcontrollers

The LPC2000 architecture is based on a 16/32 bit ARM7TDMI-S™ CPU with real-time emulation and embedded trace support. A 128 bit wide memory interface and a unique accelerator architecture enable 32 bit code execution at maximum clock rate. For critical code size applications, the alternative 16-bit Thumb™ mode reduces code by more than 30% with minimal performance penalty. Due to their tiny size and low power consumption, these microcontrollers are ideal for applications where miniaturization is a key requirement. **Features:** • 16/32 bit ARM7TDMI-S processor • Up to 8/16/32/40/64 kB on-chip Static RAM • In-System Programming (ISP) and In-Application Programming (IAP) via on-chip boot loader software • Vectored Interrupt Controller with configurable priorities and vector addresses • Embedded ICE-RT interface enables breakpoints and watch points. Interrupt service routines can continue to execute whilst the foreground task is debugged with the on-chip RealMonitor™ software. • Embedded Trace Macrocell enables non-intrusive high speed real-time tracing of instruction execution • Multiple serial interfaces

Memory		PWM	No. of Timers	ADC	DAC	I/O	USB	UART	I²C	CAN	SPI	Max. Freq. (MHz)	Temp. (°C) Range	I/O Voltage	CPU Voltage	Package	Digi-Key Part No.	Price Each			Philips Part No.
RAM	Flash																	1	25	100	
2K	8K	Y	4	8-Ch., 10-Bit	—	32	—	Y(2)	Y(2)	—	Y(2)	70	-40 ~ 85	3.3V	1.8V	48-LQFP	568-2092-ND **NEW!**	3.15	2.52	1.96	LPC2101FBD48-S
4K	16K	Y		8-Ch., 10-Bit					Y(2)		Y(2)	70	-40 ~ 85				568-2093-ND **NEW!**	3.96	3.17	2.47	LPC2102FBD48-S
8K	32K	Y		8-Ch., 10-Bit					Y(2)		Y(2)	70	-40 ~ 85				568-2094-ND **NEW!**	4.70	3.77	2.93	LPC2103FBD48-S
16K	128K	4		—					Y		—	60	0 ~ 70				568-1220-ND	9.40	7.52	6.35	LPC2104BBD48-S
32K	128K	Y		—					Y		Y	60	0 ~ 70				568-2242-ND **NEW!**	8.19	7.65	7.10	LPC2105BBD48-S
64K	128K	Y	4	—	—	32	—	Y(2)	Y	—	Y	60	0 ~ 70	3.3V	1.8V	48-LQFP	568-1221-ND	11.88	10.70	9.49	LPC2106BBD48-S
64K				—		32			Y	—	Y		-40 ~ 85			48-HVQFN	568-1324-ND	12.03	10.83	9.61	LPC2106FHN48-S
64K				—		32			Y	—	Y		-40 ~ 85			48-LQFP	568-1890-ND	11.88	10.70	9.49	LPC2106FBD48-S
16K				8-Ch., 10-Bit		112			Y(2)	Y(2)	Y(2)		-40 ~ 85			64-LQFP	568-1222-ND	9.98	7.99	6.74	LPC2114FBD64-S
16K				4-Ch., 10-Bit		46			Y	Y(2)	Y(2)		-40 ~ 85			64-LQFP	568-1223-ND	9.50	8.55	7.59	LPC2119FBD64-S
16K	256K	Y	4	4-Ch., 10-Bit	—	46	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	64-LQFP	568-1224-5-ND	9.50	8.55	7.59	LPC2124FBD64-S
16K	256K			4-Ch., 10-Bit	—	46			Y	Y(2)					1.8V	64-LQFP	568-1225-ND	10.68	9.62	8.53	LPC2129FBD64-S
8K	32K			8-Ch., 10-Bit	—	47			Y(2)	—					3.3V	64-LQFP	568-1891-ND	6.08	4.87	4.11	LPC2131FBD64-S
16K	64K			8-Ch., 10-Bit	1-Ch., 10-Bit	47			Y(2)	—					3.3V	64-LQFP	568-1892-ND	7.42	5.94	5.01	LPC2132FBD64-S
16K	64K			8-Ch., 10-Bit	1-Ch., 10-Bit	47			Y(2)	—					1.8V	64-HVQFN	568-2243-ND **NEW!**	5.78	5.39	5.01	LPC2132FHN64
16K	128K	Y	4	8-Ch., 10-Bit (2)	1-Ch., 10-Bit	47	—	Y(2)	Y(2)	—	Y(2)	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1893-ND	9.98	7.99	6.74	LPC2134FBD64-S
32K	256K			8-Ch., 10-Bit (2)	1-Ch., 10-Bit	47	—								3.3V	64-LQFP	568-1894-ND	9.98	8.99	7.97	LPC2136FBD64-S
32K	512K			8-Ch., 10-Bit (2)	1-Ch., 10-Bit	46	—								1.8V	64-LQFP	568-1226-ND	11.08	9.98	8.85	LPC2138FBD64-S
32K	512K			8-Ch., 10-Bit (2)	1-Ch., 10-Bit	47	—								1.8V	64-HVQFN	568-2091-ND **NEW!**	11.31	10.19	9.04	LPC2138FHN64
8K	32K			6-Ch., 10-Bit	—	45	Y								3.3V	64-LQFP	568-1761-ND	6.84	5.48	4.62	LPC2141FBD64-S
16K	64K	Y	4	6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y	Y(2)	Y(2)	—	Y(2)	60	-40 ~ 85	3.3V	3.3V	64-LQFP	568-1762-ND	7.98	6.39	5.39	LPC2142FBD64-S
16K	128K			6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y		Y(2)	—			-40 ~ 85		3.3V		568-1763-ND	8.95	8.06	7.15	LPC2144FBD64-S
40K	256K			8+6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y		Y(2)	—			-40 ~ 85		3.3V		568-1764-ND	10.68	9.62	8.53	LPC2146FBD64-S
40K	512K			8+6-Ch., 10-Bit	1-Ch., 10-Bit	45	Y		Y(2)	—			-40 ~ 85		3.3V		568-1765-ND	11.88	10.70	9.49	LPC2148FBD64-S
16K	256K			4-Ch., 10-Bit	—	46	—		Y	Y(4)			-40 ~ 105		1.8V		568-1895-ND	11.88	10.70	9.49	LPC2194JBD64-S
64K	—	Y	4	8-Ch., 10-Bit	—	76	—	Y(2)	Y	—	Y(2)	75	-40 ~ 85	3.3V	1.8V	144-LQFP	568-1896-ND	8.50	6.80	5.74	LPC2220FBD144-S
64K	—					76				—		75	-40 ~ 85			144-TFBGA	568-2020-ND	8.80	7.04	5.94	LPC2220FET144-S
16K	—					76				Y(2)		60	-40 ~ 85			144-LQFP	568-1897-ND	7.60	6.08	5.13	LPC2290FBD144-S
16K	256K					112				Y(4)		60	-40 ~ 105			144-LQFP	568-1898-ND	14.64	13.19	11.70	LPC2294JBD144-S
16K	256K					112				Y(4)		60	-40 ~ 125			144-LQFP	568-2383-ND **NEW!**	14.99	13.55	12.01	LPC2294HBD144-S
16K	—	Y	4	8-Ch., 10-Bit	—	76	—	Y(2)	Y	—	Y(2)	60	-40 ~ 85	3.3V	1.8V	144-LQFP	568-1227-ND	6.18	4.95	4.18	LPC2210FBD144-S
	128K					112				—						144-LQFP	568-1228-ND	11.08	9.98	8.85	LPC2212FBD144-S
	256K					112				—						144-LQFP	568-1229-ND	12.26	11.04	9.79	LPC2214FBD144-S
	256K					112				Y(2)						144-LQFP	568-1230-ND	13.46	12.12	10.75	LPC2292FBD144-S
	256K					112				Y(2)						144-TFBGA	568-2244-ND **NEW!**	12.35	11.53	10.70	LPC2292FET144-S

8051 Microcontrollers

Memory				No. of Timers	PWM	UART	I²C	CAN	SPI	ADC Ch./Bits	DAC Ch./Bits	Analog Compar.	I/O	Max. Freq. MHz @ 5V	Temperature Range (°C)	Package	Digi-Key Part No.	Price Each			Philips Part No.
RAM	EEPROM	OTP	Flash															1	25	100	
128B	—	—	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1232-5-ND	2.13	1.70	1.28	P80C31SBAA
256B					—		—			—			32	16		44-PLCC	568-1233-5-ND	2.20	1.76	1.32	P80C32SBAA
256B					—		—			—			32	33		44-PLCC	568-1234-5-ND	2.20	1.76	1.32	P80C32UBAA
256B					Y		Y			8/10			48	24		68-PLCC	568-1235-5-ND	8.95	8.06	7.15	P80C552EBA
256B					Y		Y			8/10			48	24		80-QFP	568-1236-ND	8.95	8.06	7.15	P80C552EBB
256B	—	—	—	3	Y	Y	Y	—	—	8/10	—	—	48	24	-40 ~ 85	68-PLCC	568-1237-5-ND	9.85	8.87	7.87	P80C552EFA
256B										8/10				24	0 ~ 70	68-PLCC	568-1238-5-ND	9.31	8.39	7.44	P80C552IBA
256B										8/10				24	-40 ~ 85	68-PLCC	568-1239-5-ND	10.21	9.20	8.16	P80C552IFA
512B										7/10				16	-40 ~ 85	64-LQFP	568-2086-ND **NEW!**	9.31	8.39	7.44	P80C554SFBD
512B				2	Y(2)			Y		8/10			40	16	-40 ~ 85	68-PLCC	568-1241-5-ND	15.49	13.95	12.37	P80C592FFAA
128B	—	—	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1004-5-ND	2.33	1.86	1.40	P80C31SBPN
256B				3	—			—		—			32	33	0 ~ 70	40-DIP	568-1005-5-ND	2.33	1.86	1.40	P80C32SBPN
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	-40 ~ 85	44-PLCC	568-1242-5-ND	6.12	4.90	4.14	P87C51FA-4A
2K		64K		4		Y(2)			Y				34	24	0 ~ 70		568-1243-5-ND	8.06	6.45	5.45	P87C51MB2BA/02-S
3K		96K		4		Y(2)			Y				34	24	0 ~ 70		568-1244-5-ND	8.88	7.11	6.00	P87C51MC2BA/02-S
512B		16K		3		Y			—				32	16	0 ~ 70		568-1245-5-ND	5.58	4.47	3.48	P87C51RB+4A
128B		4K		3		Y			—				32	16	0 ~ 70		568-1246-5-ND	2.75	2.20	1.71	P87C51SBAA
256B	—	8K	—	3	—	Y	—	—	—	—	—	—	32	16	0 ~ 70	44-PLCC	568-1247-5-ND	3.29	2.63	2.05	P87C52SBAA
														16	0 ~ 70	44-PQFP	568-1248-ND	3.22	2.58	2.01	P87C52SBBB
														16	-40 ~ 85	44-PLCC	568-1249-5-ND	3.60	2.88	2.24	P87C52SFAA
														33	0 ~ 70	44-PLCC	568-1250-5-ND	3.29	2.63	2.05	P87C52UBAA
														33	0 ~ 70	44-PLCC	568-1251-5-ND	2.48	1.98	1.49	P87C52X2BA
256B	—	16K	—	3	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	44-PLCC	568-1252-5-ND	5.11	4.09	3.18	P87C54SBAA
256B		8K		2	Y(2)		Y	—		8/10			40	16	0 ~ 70	68-PLCC	568-1253-5-ND	10.30	9.27	8.22	P87C552SBAA
512B		16K		2	Y(2)		Y	—		8/10			40	16	0 ~ 70	64-LQFP	568-1254-5-ND	11.65	10.49	9.30	P87C554SBAA
512B		16K		2	Y(2)		Y	—		8/10			40	16	-40 ~ 85	64-LQFP	568-1255-5-ND	13.43	12.09	10.72	P87C554SFAA
512B		16K		3	Y(2)		Y	Y		6/10			32	12	-40 ~ 85	44-PLCC	568-1256-5-ND	9.90	7.92	6.69	P87C591VFAA
256B	—	16K	—	4	—	Y	—	—	—	—	—	—	32	33	0 ~ 70	40-DIP	568-1010-5-ND	7.80	6.24	5.27	P87C51FB-4N
128B		4K		3													568-1011-5-ND	2.93	2.34	1.82	P87C51SBPN
256B		8K		3													568-1012-5-ND	3.40	2.72	2.12	P87C52SBPN
256B		8K		3													568-1013-5-ND	2.39	1.91	1.49	P87C52X2BN
256B		16K		3													568-1014-5-ND	5.36	4.29	3.34	P87C54SBPN
128B	—	2K	—	2	—	Y	Y	—	—	—	—	—	18	20	0 ~ 70	20-SOIC	568-1257-5-ND	2.43	1.94	1.46	P87LPC762BD
		4K								—	—				0 ~ 70	20-SOIC	568-1258-5-ND	2.39	1.91	1.49	P87LPC764BD
		4K								—	Y(2)				0 ~ 70	20-TSSOP	568-1259-5-ND	2.34	1.88	1.46	P87LPC764BDH
		4K								8/4	8/4				0 ~ 70	20-SOIC	568-1260-5-ND	2.86	2.29	1.78	P87LPC767BD
		4K								8/4	2/8				-40 ~ 125	20-SOIC	568-1261-5-ND	5.06	4.05	3.42	P87LPC769HD
128B	—	1K	—	2	—	Y	Y	—	—	—	—	—	12	20	0 ~ 70	14-TSSOP	568-1015-5-ND	1.98	1.58	1.19	P87LPC760BDH
		2K			—	Y				—		Y(2)	18		0 ~ 70	20-DIP	568-1016-5-ND	2.30	1.84	1.43	P87LPC762BN
		4K			—	Y				—		Y(2)	18		0 ~ 70	20-DIP	568-1017-5-ND	2.50	2.00	1.56	P87LPC764BN
		4K			—	—				4/8		Y(2)	18		0 ~ 70	20-DIP	568-1018-5-ND	3.04	2.43	1.89	P87LPC767BN
		8K			Y	Y				4/8		Y(2)	18		-40 ~ 85	20-TSSOP	568-1822-5-ND	4.28	3.42	2.66	P87LPC778FDH-S
512B	—	—	16K	4	Y	Y	Y	—	—	—	—	—	32	33	0 ~ 75	44-PLCC	568-1262-5-ND	5.96	4.77	4.03	P89C51RB2BA/01
512B			32K												0 ~ 70	44-PLCC	568-1263-5-ND	6.26	5.01	4.23	P89C51RC2BA/01
1K			64K												0 ~ 70	44-PLCC	568-1266-5-ND	7.66	6.13	5.18	P89C51RD2BA/01
1K			64K												0 ~ 70	44-LQFP	568-2021-ND	7.42	5.94	5.01	P89C51RD2BBD/01
512B			16K												-40 ~ 85	44-PLCC	568-1268-5-ND	9.44	7.56	6.38	P89C660HFA
1K	—	—	32K	4	Y	Y	Y	—	—	—	—	—	32	33	0 ~ 70	44-PLCC	568-1269-5-ND	9.14	7.32	6.17	P89C662HBA
1K			32K												-40 ~ 85	44-PLCC	568-1270-5-ND	8.91	8.03	7.12	P89C662HFA
2K			64K												0 ~ 70	44-LQFP	568-1272-ND	9.90	7.92	6.69	P89C664HBBD
2K			64K												-40 ~ 85	44-LQFP	568-1274-ND	9.66	8.70	7.72	P89C664HFBD
8K			64K												0 ~ 70	44-PLCC	568-1275-5-ND	9.41	8.48	7.52	P89C668HBA
8K			64K												-40 ~ 85	44-PLCC	568-1277-5-ND	10.70	9.63	8.54	P89C668HFA
128B	—	—	1K	4	Y 1 ch.	—	—	—	—	—	—	Y(1)	6	18	-40 ~ 85	8-DIP	568-2245-5-ND **NEW!**	.62	.58	.54	P89LPC901FN-S
																8-SOIC	568-1994-ND	1.14	.95	.76	P89LPC901FD

*CCU: Capture Compare Unit • Tape and Reel Pricing

(Continued)

PHILIPS LPC2000/8051 Microcontrollers *(Cont.)*

Memory				No. of						ADC	DAC	Analog		Max. Freq.	Temperature		Digi-Key	Price Each			Philips
RAM	EEPROM	OTP	Flash	Timers	PWM	UART	I²C	CAN	SPI	Ch./Bits	Ch./Bits	Compar.	I/O	MHz @ 5V	Range (°C)	Package	Part No.	1	25	100	Part No.
128B	—	—	1K	4	—	—	—	—	—	—	—	Y(2)	6	18	-40 ~ 85	8-SOIC	568-1995-ND	1.30	1.04	.78	P89LPC902FD
					—	—						Y(2)				8-DIP	568-2246-5-ND ***NEW!***	.83	.77	.72	P89LPC902FN-S
					—	Y						Y(2)				8-SOIC	568-1996-ND	1.33	1.06	.80	P89LPC903FD
					1 ch.	—						Y(1)				8-SOIC	568-1997-ND	1.30	1.04	.78	P89LPC906FD
					—	Y						Y(1)				8-SOIC	568-1998-ND	1.43	1.14	.86	P89LPC907FD
128B	—	—	1K	4	—	Y	—	—	—	—	—	Y(1)	6	18	-40 ~ 85	8-SOIC	568-1999-ND	1.43	1.14	.86	P89LPC908FD
			1K		1 ch.	—			Y	—	1/8	Y(2)	12			14-TSSOP	568-2003-5-ND	1.50	1.20	.90	P89LPC912FDH-S
			1K		—	Y			Y	—	1/8	Y(2)	12			14-TSSOP	568-2004-5-ND	1.63	1.30	.98	P89LPC913FDH-S
			1K		1 ch.	Y			Y	—	1/8	Y(2)	12			14-TSSOP	568-2005-5-ND	1.63	1.30	.98	P89LPC914FDH-S
			2K		1 ch.	Y			—	4/8	1/8	Y(2)	12			14-TSSOP	568-2006-5-ND	1.95	1.56	1.17	P89LPC915FDH-S
128B	—	—	2K	4	1 ch.	Y	—	—	Y	4/8	1/8	Y(2)	14	18	-40 ~ 85	16-TSSOP	568-2007-5-ND	2.27	1.82	1.42	P89LPC916FDH-S
256B			2K		Y(2)		Y		—	4/8	1/8		14			16-TSSOP	568-2247-ND ***NEW!***	1.20	1.12	1.04	P89LPC917FDH-S
256B			2K		2 ch.		Y		—	—	1/8		18			20-TSSOP	568-1279-5-ND	2.00	1.60	1.20	P89LPC920FDH-S
256B			4K		Y(2)		Y		—	—	—		18			20-DIP	568-2248-5-ND ***NEW!***	1.50	1.40	1.30	P89LPC921FN
256B			4K		2 ch.		Y		—	—	1/8		18			20-TSSOP	568-1280-5-ND	2.36	1.89	1.47	P89LPC921FDH-S
256B	—	—	8K	4	2 ch.	Y	Y	—	—	—	1/8	Y(2)	18	18	-40 ~ 85	20-DIP	568-1282-5-ND	2.88	2.31	1.80	P89LPC922FN
			4K		2 ch.				—	4/8			18			20-TSSOP	568-2008-5-ND	2.40	1.92	1.44	P89LPC924FDH-S
			8K		2 ch.				—	4/8			18			20-TSSOP	568-2009-5-ND	2.34	1.88	1.46	P89LPC925FDH-S
			8K		Y(2)				—	4/8			18			20-DIP	568-2249-5-ND ***NEW!***	1.74	1.63	1.51	P89LPC925FN-S
			4K		2 ch.				Y	—			26			28-TSSOP	568-1283-5-ND	2.30	1.84	1.38	P89LPC930FDH-S
256B	—	—	8K	4	2 ch.	Y	Y	—	Y	—	1/8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-1284-5-ND	2.68	2.15	1.67	P89LPC931FDH-S
768B	512B		8K	5	CCU*					—	1/8			12		28-PLCC	568-1285-5-ND	3.02	2.42	1.88	P89LPC932A1FA-S
768B	512B		8K	5	CCU*					—	1/8			12		28-TSSOP	568-1286-5-ND	2.84	2.27	1.77	P89LPC932A1FDH-S
768B	512B		8K	5	CCU*					—	—			12		28-HVQFN	568-2250-5-ND ***NEW!***	1.74	1.63	1.51	P89LPC932A1FHN-S
256B	—		4K	4	2 ch.					4/8	4/8			18		28-TSSOP	568-2010-5-ND	2.25	1.80	1.40	P89LPC933FDH-S
256B	—	—	8K	4	2 ch.	Y	Y	—	Y	4/8	2x8	Y(2)	26	18	-40 ~ 85	28-TSSOP	568-2011-5-ND	2.48	1.98	1.54	P89LPC934FDH-S
68B	512B		8K	5	CCU*					4/8 x2	1/8 x2					28-PLCC	568-1287-5-ND	3.06	2.45	1.91	P89LPC935FA-S
768B	512B		8K	5	CCU*					4/8 x2	1/8 x2					28-TSSOP	568-1288-5-ND	2.88	2.31	1.80	P89LPC935FDH-S
768B	512B		8K	5	CCU*					4/8 x2	2/8					28-HVQFN	568-2251-5-ND ***NEW!***	2.04	1.91	1.77	P89LPC935FHN-S
512B	512B		16K	5	CCU*					4/8 x2	2x8					28-TSSOP	568-2012-5-ND	3.76	3.01	2.34	P89LPC936FDH-S
768B	512B	—	8K	5	CCU*	Y	Y	—	Y	8/10	—	Y(2)	26	18	-40 ~ 85	28-PLCC	568-2252-5-ND ***NEW!***	2.04	1.91	1.77	P89LPC938FA-S
768B	512B		8K	5	CCU*	Y	Y		Y	8/10	1/8	Y(2)	26			28-TSSOP	568-2013-5-ND	2.88	2.31	1.80	P89LPC938FDH-S
512B	—		8K	4	2 ch.	Y(2)	Y		Y	8/10	—	Y(2)	42			44-PLCC	568-2253-5-ND ***NEW!***	2.46	2.30	2.14	P89LPC952FA
512B	—		8K	4	2 ch.	Y(2)	Y		Y	8/10	1/8	Y(2)	40			44-LQFP	568-2014-5-ND	5.06	4.05	3.15	P89LPC952FBD
128B	—		1K	4	2 ch.	—	—		—	4/8	1/8	Y(1)	8			10-HVSON	568-2000-1-ND	1.65	1.32	.99	P89LPC9102FTK-G
128B	—	—	1K	4	2 ch.	—	—	—	—	4/8	1/8	Y(2)	8	18	-40 ~ 85	10-HVSON	568-2000-2-ND•	1201.20/1,400			P89LPC9102FTK-G
						Y						Y(1)	8			10-HVSON	568-2001-1-ND	1.65	1.32	.99	P89LPC9103FTK-G
						Y						Y(1)	8			10-HVSON	568-2001-2-ND•	1201.20/1,400			P89LPC9103FTK-G
						Y						Y(1)	10			14-TSSOP	568-2002-5-ND	1.70	1.36	1.02	P89LPC9107FDH-S
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	32	40	0 ~ 70	44-TQFP	568-1289-ND	6.32	5.06	4.27	P89LV51RD2BBC
1K	—	—	16K	4	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2427-5-ND ***NEW!***	5.36	4.29	3.62	P89V51RB2FA-S
			32K	4	Y										-40 ~ 85	44-PLCC	568-2428-5-ND ***NEW!***	5.64	4.52	3.81	P89V51RC2FA
			32K	4	Y										-40 ~ 85	44-TQFP	568-2429-ND ***NEW!***	5.46	4.37	3.69	P89V51RC2FBC
			32K	4	Y										-40 ~ 85	40-DIP	568-2430-5-ND ***NEW!***	5.92	4.74	4.00	P89V51RC2FN
			64K	3	—										0 ~ 70	40-DIP	568-1019-5-ND	7.02	5.62	4.74	P89V51RD2BN
1K	—	—	64K	3	Y	Y	—	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-1290-5-ND	6.52	5.22	4.41	P89V51RD2FA
1K			64K	3			—									44-TQFP	568-1291-ND	6.32	5.06	4.27	P89V51RD2FBC
1K			64K	4			—									40-DIP	568-2431-5-ND ***NEW!***	7.02	5.62	4.74	P89V51RD2FN
512B			16K	4			Y									44-PLCC	568-2432-5-ND ***NEW!***	7.22	5.78	4.88	P89V660FA
512B			16K	4			Y									44-TQFP	568-2433-ND ***NEW!***	7.10	5.68	4.80	P89V660FBC
1K	—	—	32K	4	Y	Y	Y	—	Y	—	—	—	32	40	-40 ~ 85	44-PLCC	568-2434-5-ND ***NEW!***	8.04	6.44	5.43	P89V662FA
1K			32K													44-TQFP	568-2435-ND ***NEW!***	7.90	6.32	5.34	P89V662FBC
2K			64K													44-PLCC	568-2436-5-ND ***NEW!***	8.88	7.11	6.00	P89V664FA
2K			64K													44-TQFP	568-2437-ND ***NEW!***	8.72	6.98	5.89	P89V664FBC
512B	—	—	—	3	—	Y(2)	Y	—	—	—	—	—	32	30	0 ~ 70	44-PLCC	568-1299-5-ND	9.10	7.28	6.15	PXAG30KBA-S
512B		—	—		—		Y			—			32		0 ~ 70	44-LQFP	568-1300-ND	9.00	7.20	6.08	PXAG30KBBD
512B		—	—		—		Y			—			32		-40 ~ 85	44-PLCC	568-1301-5-ND	8.96	8.07	7.16	PXAG30KFA-S
1K		—	—		Y		Y			8/8			50		0 ~ 70	80-LQFP	568-1303-ND	10.00	9.00	7.98	PXAS30KBBE
512B		32K	—		—		—			—			32		0 ~ 70	44-PLCC	568-1095-5-ND	12.11	10.91	9.67	PXAG37KBA
512B	—	32K	—	3	—	Y(2)	—	—	—	—	—	—	32	30	-40 ~ 85	44-PLCC	568-1096-5-ND	12.69	11.43	10.14	PXAG37KFA
2K		—	64K				—			—			32		0 ~ 70	44-PLCC	568-1097-5-ND	9.36	8.43	7.48	PXAG49KBA
2K		—	64K				—			—			32		-40 ~ 85	44-PLCC	568-1098-5-ND	11.78	10.61	9.41	PXAG49KFA
1K		32K	—				Y			8/8			50		0 ~ 70	68-PLCC	568-1099-5-ND	11.10	9.99	8.86	PXAS30KBA

*CCU: Capture Compare Unit • Tape and Reel Pricing

PHILIPS Development Tools for LPC2000

LPC21++ Evaluation Board

The Keil MCB2100 Evaluation Board introduces you to the Philips LPC2100 ARM family and allows you to create and test working programs for this advanced architecture. Two CAN and two serial interfaces are available. Debugging is supported via the JTAG interface and the Keil ULink USB-JTAG adapter. An evaluation copy of the Keil ARM development tool is included. **Applications:** LPC2129/2119/2124/2114 product families **Includes:** • Evaluation Kit for LPC2100 (w/LPC2129) • ULINK JTAG Debugger • Development Software

568-1755-ND	Eval Board/ULINK JTAG LPC210XARM	**$337.50**

LPC2106 Evaluation Board

The evaluation board is populated with an LPC2106 device and features 2 serial ports, 2 user-defined buttons, 16 fully configurable LEDs, 20-pin JTAG interface connector as well as breakout headers for all pins. The kit also comes with a 32K code-limited version of IAR's Embedded Workbench, including IAR's ARM compiler and C-SPY debugger as well as a free license of the IAR MakeApp code generator for the LPC210x. **Applications:** LPC2106 family **Includes:** • Development board (w/LPC2106) • Development Software

568-1756-ND	Eval Board for LPC210x ARM MCU	**$163.50**

LPC213x Evaluation Board

The Keil MCB2130 Evaluation Board introduces you to the Philips LPC2130 ARM family and allows you to create and test working programs for this advanced architecture. Two serial interfaces, a speaker, analog input (via potentiometer), and eight LEDs are available. Debugging is supported via the JTAG interface and the Keil ULink USB-JTAG adapter. An evaluation copy of the Keil ARM development tools is included. **Applications:** LPC213x family **Includes:** • Development Board (with/LPC2138) • Development Software

568-2095-ND	Evaluation Board for LPC213x	**$163.50**
568-2096-ND	Evaluation Board + ULink LPC213x	**$337.50**

LPC214x Evaluation Board

The Keil MCB2140 Evaluation Board introduces you to the Philips LPC2140 ARM family and allows you to create and test working programs for this advanced architecture. An on-chip USB interface, two serial interfaces, a speaker, analog input (via potentiometer), and eight LEDs are available. Debugging is supported via the JTAG interface and the Keil ULink USB-JTAG adapter. An evaluation copy of the Keil ARM development tools is included. **Applications:** LPC214x family **Includes:** • Development Board (with/LPC2148) • Development Software

568-2097-ND	Evaluation Board for LPC214x	**$163.50**
568-2098-ND	Evaluation Board + ULink LPC214x	**$337.50**

LPC2148 IAR KickStart Kit™

IAR KickStart Kit for Philips LPC2148 contains all the necessary hardware and software and allows you to design, develop, integrate and test your applications. **Applications:** LPC2148 family **Includes:** • LPC2148 Evaluation Board • Development Software • J-Link-KS JTAG Interface

568-2099-ND	Eval Board/JLink LPC214x ARM	**$337.50**

LPC229x Rapid Development Kit

The phyCORE-ARM7/LPC229x Rapid Development Kit supports high-performance LPC2292 and LPC2294 ARM7TDMI-S devices from Philips with external bus interface. PHYTEC Rapid Development Kits enable immediate and successful start- up of our insert-ready Single Board Computers. **Applications:** LPC2292 and LPC2294 families **Includes:** • Single Board Computer Module • Development Board • Ethernet Adapter • Serial Cable • AC adapter • PHYTEC Spectrum CD including SBC hardware manual, evaluation compiler, software demos and Controller User Manual

568-1757-ND	Eval Board for LPC220x ARM MCU	**$343.50**

Development Tools for LPC900

MCB900 Evaluation Board

The Keil MCB900 Evaluation Board is a versatile and flexible prototype board for the Philips P89LPC93x microcontroller family. The MCB900 includes the Keil µVision2 LPC Development Studio which allows you to create and debug programs that you can program into the on-chip Flash ROM using FlashMagic. **Applications:** P89LPC93x family **Includes:** • MCB900 Evaluation Board (w/ P89LPC932) • µVision2 LPC Development Studio

568-1758-ND	Eval Board for LPC93x MCU Family	**$75.00**

EPM900 In-Circuit Debugger/Parallel Programmer

The Keil EPM900 Emulator supports in-circuit debugging and parallel Flash ROM programming for the Philips P89LPC9xx device family. The EPM900 connects directly to the µVision2 Debugger which provides full control over the user program execution. The Keil EPM900 Emulator includes the µVision2 LPC Development Studio which contains all the tools you need to generate small LPC applications. **Applications:** P89LPC9xx family **Includes:** • EPM900 Emulator Board • µVision2 LPC Development Studio • USB Cable

568-1759-ND	Emulator Debugger/Programmer LPC9x	**$223.50**

PDS900 Emulator/Programmer

The PDS900 is a fully featured in circuit emulation and programming system supporting the entire Philips P89LPC900 family of high performance microcontrollers. It allows complete control and tracing of execution of a users program and access to all registers and memory spaces of the target microcontroller, without consuming any device resources or introducing wait-states or other non-standard behavior. It also allows programming of the Flash program memory and configuration options of production microcontroller devices. **Applications:** P89LPC9xx family **Includes:** • PDS900 emulation and programming system • Emulation footprint adapters for TSSOP20, TSSOP28 and PLCC28 packages

568-1760-ND	Emulator Programmer LPC9x MCU	**$673.50**

TEXAS INSTRUMENTS

Flash Emulation Tools

A powerful tool that includes the hardware and software required to complete much of your application development work. The flash memory can be erased and programmed in seconds with only a few keystrokes, and since the MSP430 Flash is extremely low power, no external power supply is required. The tool has an integrated software environment and connects directly to the PC which greatly simplifies the set-up and use of the tool.

MSP-FET430P120

Applications: MSP430F11x1, MSP430F12x, MSP430F11x2 and MSP430F12x2 product families **Includes:** • MSP430F12x FET development board with 28 SOIC ZIF socket, LED indicator, FET to PC cable and header pinouts for prototyping • Two F1232 flash devices • Two MSP430F123 flash devices • Integrated IAR Kickstart user interface which includes assembler, linker, simulator, source-level debugger and limited C-compiler • Full documentation on CD-ROM

MSP-FET430P140

Applications: MSP430F13x, MSP430F14x, MSP430F15x and MSP430F16x product families **Includes:** • MSP430F13x/14x FET development board with 64 QFP ZIF socket, LED indicator, FET to PC adapter and header pinouts for prototyping • Two MSP430F149 flash devices • Integrated IAR Kickstart user interface which includes assembler, linker, simulator, source-level debugger and limited C-compiler • Full documentation on CD-ROM stepping, multiple hardware breakpoints, full-speed operation and peripheral access are all fully supported in-system using JTAG. The FET comes complete with everything required to complete an entire project. **Features:** • JTAG based real-time-in-system emulation • CD-ROM

MSP-FET430X110

The Flash Emulation Tool (FET) supports complete in-system development and is available for all MSP430Fxx Flash devices. Programming, assembler/C-source level debug, single includes IAR Kickstart IDE, assembler, linker, simulator and 2-kB C-compiler **Includes:** • MSP430F11x(1) FET development board with 20-SOIC ZIF socket, LED indicator, FET to PC cable, and header pinouts for prototyping • Two MSP430F1121 flash devices • Integrated IAR Kickstart user interface which includes assembler, linker, simulator, source-level debugger and function limited C compiler • Full documentation on CD-ROM

MSP-TRF6903-DEMO

This kit is used to demonstrate a bidirectional radio frequency (RF) data link without the need of an external computer and for prototyping by downloading new software code to the MSP430F449 through the JTAG connector. The schematics and layout of the board can be used as a reference design if desired. **Features:** • TRF6903 RF transceiver • MSP430F449 microcontroller • JTAG connector • RS-232C connector • On-board PCB antenna

296-16696-ND	MSP-FET430P120	**$126.84**
296-16697-ND	MSP-FET430P140	**$112.46**
296-13850-ND	MSP-FET430X110	**$55.66**
296-17300-ND	MSP-TRF6903-DEMO	**$190.89**

MSP-EVK430S320 Evaluation Kit

The MSP-EVK430S320 evaluation kit supports the MSP430x32x family of devices and comes with the PMS430E325FZ (UV EPROM) assembled in a socket.

Kit Includes: • MSP430 EVK board with UV erasable EPROM, LCD, PC connector • MSP-PRGS430 serial programming adapter • IAR Kickstart IDE, assembler, linker and limited C compiler • CD-ROM with software tools and complete documentation

296-13849-ND	MSP-EVK430S320	**$511.19**

MSP-PRGS430 Serial Programmer

This serial programming adapter is a second-generation programming tool that can be used to program any MSP430 Flash, OTP or UV-EPROM device. These devices can be programmed in-circuit or in stand-alone sockets and software is included to facilitate device programming.

- *Power supply not included. Recommend T924-P5P-ND*

Applications: MSP430 Flash, OTP or UV-EPROM device
Includes: • MSP-PRGS430 programmer • Serial cable • Target cable • CD-ROM • Documentation

296-16698-ND	MSP-PRGS430	**$254.96**

TMS370C756A 8-Bit Microcontroller

The TMS370Cx5x family of single-chip 8-bit microcontrollers provides cost-effective real-time system control through integration of advanced peripheral function modules and various on-chip memory configurations. This device is implemented using high-performance silicon-gate CMOS EPROM and EEPROM technologies. The low-operating power, wide-operating temperature range, and noise immunity of CMOS technology, coupled with the high performance and extensive on-chip peripheral functions, make the TMS370Cx5x devices attractive in system designs for automotive electronics, industrial motor control, computer peripheral control, telecommunications and consumer application.

- **Maximum Clock Frequency:** 20MHz
- **Operating Temperature:** -40°C ~ 85°C

Memory Size							Digi-Key	Price Each			Texas Instruments
Program EPROM	Data RAM/EEPROM	I/O	Timer (16-Bit)	ADC	V_{CC}	Package	Part No.	1	25	100	Part No.
TMS370 Family											
16K	512/512	46	2	8-Ch., 8-Bit	5V±10%	68-PLCC	296-10770-5-ND	16.43	15.33	14.24	TMS370C756AFNT

MSP-TRF4903-DEMO Evaluation Kit

The MSP-TRF4903-DEMO kit is used to demonstrate a unidirectional radio frequency (RF) data link without the need of an external computer and for prototyping by downloading new software code to the MSP430F449 through the JTAG connector. This kit is used to evaluate the Texas Instruments TRF4903, a single chip multiband RF transmitter. The schematics and layout of the board can be used as a reference design if desired, limited by the software system parameters of the demonstration firmware.

Kit Includes: • One TRF4903 demonstration board (transmitter) • One TRF6903 demonstration board (receiver) • User's manual

Software and hardware documention are downloaded

296-18053-ND	MSP-TRF4903-DEMO	**$190.89**

MSP430 Ultra-Low Power Microcontrollers

The MSP430 family of ultra-low power 16-bit RISC mixed-signal processors provides the ultimate solution for battery-powered measurement applications. **Features:** • Ultra-low power architecture extends battery life 0.1uA RAM retention, 0.8uA real-time clock mode, 250uA/MIPS active • High-performance analog ideal for precise measurements • Modern 16-bit RISC CPU enables new applications at a fraction of the code size • In-system programmable Flash permits code changes, field upgrades and data logging • 16-Bit MSP430 Architecture, a 16-bit RISC CPU, peripherals and flexible clock system are combined by using a von-Neumann common memory address bus (MAB) and memory data bus (MDB). **Memory Options:** • Flash, ROM, OTP versions (from 1KB to 60KB) • DMA controller **Modern 16-Bit RISC CPU:** • Optimized for C and assembler programming • Up to 8 MIPS of performance available **Operating Temperature:** -40°C ~ 85°C

Memory Size Flash (Program)	SRAM (Byte)	I/O	LCD Seg.	Timer (8-Bit)	Timer (16-Bit)	ADC	UART	Freq. Range Min./Max.	Vcc	Package	Digi-Key Part No.	Price Each			Tape and Reel*		Texas Instruments Part No.
												1	25	100	Size	Pricing	
Flash Based F1xx Family																	
1K	128	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-TVSOP	296-15781-5-ND	2.48	1.98	1.49	—	—	MSP430F1101AIDGV
										20-SOIC	296-13768-5-ND	2.48	1.98	1.49	—	—	MSP430F1101AIDW
										20-TSSOP	296-13720-5-ND	2.48	1.98	1.49	—	—	MSP430F1101AIPW
										24-QFN	296-16765-1-ND	2.48	1.98	1.49	250	346.50	MSP430F1101AIRGET
										20-SOIC	296-6505-5-ND	2.81	2.25	1.75	—	—	MSP430F1101IDW
										20-TSSOP	296-9608-5-ND	2.81	2.25	1.75	—	—	MSP430F1101IPW
2K	128	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-TVSOP	296-15782-5-ND	3.04	2.43	1.89	—	—	MSP430F1111AIDGV
										20-SOIC	296-12633-5-ND	3.04	2.43	1.89	—	—	MSP430F1111AIDW
										20-TSSOP	296-12634-5-ND	3.04	2.43	1.89	—	—	MSP430F1111AIPW
										24-QFN	296-16762-1-ND	3.04	2.43	1.89	250	449.00	MSP430F1111AIRGET
4K	256	14	—	—	1	Slope	—	DC-8MHz	1.8-3.6 V	20-TVSOP	296-12703-5-ND	3.83	3.06	2.38	—	—	MSP430F1121AIDGV
								DC-8MHz	1.8-3.6 V	20-SOIC	296-13457-5-ND	3.83	3.06	2.38	—	—	MSP430F1121AIDW
								DC-8MHz	1.8-3.6 V	20-TSSOP	296-13458-5-ND	3.83	3.06	2.38	—	—	MSP430F1121AIPW
								DC-8MHz	1.8-3.6 V	24-QFN	296-15891-1-ND	3.83	3.06	2.38	3,000	2168.00/M	MSP430F1121AIRGER
								DC-8MHz	1.8-3.6 V	20-SOIC	296-6507-5-ND	4.84	3.87	3.01	—	—	MSP430F1121IDW
								DC-8MHz	1.8-3.6 V	20-TSSOP	296-6508-5-ND	4.84	3.87	3.01	—	—	MSP430F1121IPW
								DC-8MHz	1.8-3.6 V	20-TSSOP	296-9610-5-ND	4.73	3.78	2.94	—	—	MSP430F112IPW
								DC-5.35MHz	2.5-5.5 V	20-SOIC	296-6510-5-ND	5.40	4.32	3.36	—	—	MSP430P112IDW
	256	14	—	—	1	8-Ch., 10-Bit	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-13776-5-ND	4.50	3.60	2.80	—	—	MSP430F1122IDW
										20-TSSOP	296-13777-5-ND	4.50	3.60	2.80	—	—	MSP430F1122IPW
										32-QFN	296-17137-1-ND	4.50	3.60	2.80	250	665.00	MSP430F1122IRHBT
	256	22	—	—	1	Slope	1	DC-8MHz	1.8-3.6 V	28-TSSOP	296-12082-5-ND	4.84	3.87	3.01	—	—	MSP430F122IPW
						Slope				32-QFN	296-15851-1-ND	4.84	3.87	3.01	3,000	2709.00/M	MSP430F122IRHBR
						8-Ch., 10-Bit				28-SOIC	296-13780-5-ND	5.40	4.32	3.36	—	—	MSP430F1222IDW
						8-Ch., 10-Bit				28-TSSOP	296-13781-5-ND	5.40	4.32	3.36	—	—	MSP430F1222IPW
						8-Ch., 10-Bit				32-QFN	296-16794-1-ND	5.40	4.32	3.36	250	798.00	MSP430F1222IRHBT
8K	256	14	—	—	1	8-Ch., 10-Bit	—	DC-8MHz	1.8-3.6 V	20-SOIC	296-13778-5-ND	5.06	4.05	3.15	—	—	MSP430F1132IDW
										20-TSSOP	296-13779-5-ND	5.06	4.05	3.15	—	—	MSP430F1132IPW
										32-QFN	296-17133-1-ND	5.06	4.05	3.15	250	748.25	MSP430F1132IRHBT
	256	22	—	—	1	Slope	1	DC-8MHz	1.8-3.6 V	28-SOIC	296-13101-5-ND	5.18	4.14	3.22	—	—	MSP430F123IDW
						Slope				28-TSSOP	296-12083-5-ND	5.18	4.14	3.22	—	—	MSP430F123IPW
						Slope				32-QFN	296-15852-1-ND	5.18	4.14	3.22	3,000	2898.00/M	MSP430F123IRHBR
						8-Ch., 10-Bit				28-SOIC	296-13782-5-ND	5.00	4.00	3.38	—	—	MSP430F1232IDW
						8-Ch., 10-Bit				28-TSSOP	296-13783-5-ND	5.00	4.00	3.38	—	—	MSP430F1232IPW
						8-Ch., 10-Bit				32-QFN	296-16795-1-ND	5.00	4.00	3.38	3,000	3100.00/M	MSP430F1232IRHBR
	256	48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	64-TQFP	296-15894-ND	6.00	4.80	4.05	—	—	MSP430F133IPAG
			—			8-Ch., 12-Bit	1			64-LQFP	296-9611-ND	6.00	4.80	4.05	—	—	MSP430F133IPM
			—			8-Ch., 12-Bit	1			64-QFN	296-17141-1-ND	6.00	4.80	4.05	250	975.00	MSP430F133IRTDT
			96			Slope	—			64-LQFP	296-15857-1-ND	7.50	6.00	5.07	1,000	4688.00	MSP430FW423IPMR
16K	256	48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	64-TQFP	296-15892-ND	7.20	5.76	4.86	—	—	MSP430F135IPAG
			96			Slope	—				296-15858-1-ND	8.10	6.48	5.47	1,000	5063.00	MSP430FW425IPMR
	512	48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	64-LQFP	296-9612-ND	7.20	5.76	4.86	—	—	MSP430F135IPM
										64-QFN	296-17142-1-ND	7.20	5.76	4.86	250	1170.00	MSP430F135IRTDT
										64-LQFP	296-16837-ND	9.90	7.92	6.69	—	—	MSP430F155IPM
24K	1K	48	—	—	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	64-LQFP	296-16838-ND	9.25	8.33	7.39	—	—	MSP430F156IPM
32K	256	48	—	—	2	Slope	2	DC-8MHz	1.8-3.6 V	64-TQFP	296-15893-ND	8.41	7.58	6.72	—	—	MSP430F147IPAG
			96				—				296-15859-1-ND	8.90	7.12	6.01	1,000	5563.00	MSP430FW427IPMR
	1K	48	—		2	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	64-LQFP	296-9613-ND	8.41	7.58	6.72	—	—	MSP430F147IPM
						Slope	2			64-LQFP	296-15701-ND	9.20	7.36	6.21	—	—	MSP430F1471IPM
						8-Ch., 12-Bit	2			64-QFN	296-17143-1-ND	9.20	7.36	6.21	250	1495.00	MSP430F147IRTDT
						Slope	2			64-QFN	296-17144-1-ND	8.41	7.58	6.72	250	1609.75	MSP430F1471IRTDT
						8-Ch., 12-Bit	1			64-LQFP	296-16839-ND	9.75	8.78	7.79	—	—	MSP430F157IPM
						8-Ch., 12-Bit	1			64-LQFP	296-16840-ND	11.25	10.13	8.98	—	—	MSP430F167IPM
48K	2K	48	—	—	2	Slope	2	DC-8MHz	1.8-3.6 V	64-TQFP	296-15856-ND	9.58	8.63	7.65	—	—	MSP430F148IPAG
						Slope				64-LQFP	296-15702-ND	8.83	7.95	7.05	—	—	MSP430F1481IPM
						8-Ch., 12-Bit				64-LQFP	296-9614-ND	9.58	8.63	7.65	—	—	MSP430F148IPM
						Slope				64-QFN	296-17145-1-ND	8.83	7.95	7.05	250	1689.50	MSP430F1481IRTDT

* For Tape and Reel part number, change 1-ND to 2-ND ** Sigma Delta

(Continued)

TEXAS INSTRUMENTS MSP430 Ultra-Low Power Microcontrollers *(Cont.)*

Memory Size Flash (Program)	SRAM (Byte)	I/O	LCD Seg.	Timer (8-Bit)	Timer (16-Bit)	ADC	UART	Freq. Range Min./Max.	Vcc	Package	Digi-Key Part No.	Price Each			Tape and Reel*		Texas Instruments Part No.
												1	25	100	Size	Pricing	
48K	2K	48	—	—	2	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	64-QFN	296-17146-1-ND	9.58	8.63	7.65	250	1832.75	MSP430F148IRTDT
	2K						1			64-LQFP	296-16841-ND	12.41	11.18	9.91	—	—	MSP430F168IPM
	10K						1			64-LQFP	296-17205-ND	14.41	12.98	11.51	—	—	MSP430F1611IPM
60K	2K	48	—	—	2	Slope	—	DC-8MHz	1.8-3.6 V	64-LQFP	296-15703-ND	9.33	8.40	7.45	—	—	MSP430F1491IPM
						8-Ch., 12-Bit	2			64-TQFP	296-13102-ND	10.08	9.08	8.05	—	—	MSP430F149IPAG
						8-Ch., 12-Bit	2			64-LQFP	296-9615-ND	10.08	9.08	8.05	—	—	MSP430F149IPM
						Slope	2			64-QFN	296-17147-1-ND	9.33	8.40	7.45	250	1785.00	MSP430F1491IRTDT
						8-Ch., 12-Bit	1			64-LQFP	296-16842-ND	13.24	11.93	10.58	—	—	MSP430F169IPM
	2K	48	—	—	3	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	64-LQFP	296-17009-1-ND	13.24	11.93	10.58	1,000	9818.00	MSP430F169IPMR
										64-QFN	296-17556-1-ND	10.08	9.08	8.05	250	1928.50	MSP430F149IRTDT
Flash Based F4xx Family with LCD Driver																	
4K	256	48	96	2	1	Slope	1	DC-8MHz	1.8-3.6 V	64-LQFP	296-12084-ND	5.20	4.16	3.51	—	—	MSP430F412IPM
										64-QFN	296-17323-1-ND	5.20	4.16	3.51	250	845.00	MSP430F412IRTDT
8K	256	48	96	2	1	Slope	—	DC-8MHz	1.8-3.6 V	64-LQFP	296-12085-ND	5.90	4.72	3.99	—	—	MSP430F413IPM
							1			64-QFN	296-17324-1-ND	5.90	4.72	3.99	250	958.75	MSP430F413IRTDT
							1			64-QFN	296-17412-1-ND	5.90	4.72	3.99	2,500	3658.00/M	MSP430F413IRTDR
	256	14	128	2	1	3-Ch., 16-Bit**	1	DC-8MHz	1.8-3.6 V	64-LQFP	296-17108-ND	9.00	7.20	6.08	—	—	MSP430F423IPM
								DC-8.4MHz	2.7-3.6 V		296-16991-ND	9.70	7.76	6.55	—	—	MSP430FE423IPM
16K	512	48	96	2	2	Slope	—	DC-8MHz	1.8-3.6 V	64-LQFP	296-16766-ND	6.80	5.44	4.59	—	—	MSP430F415IPM
			128/160			8-Ch., 12-Bit	1			80-LQFP	296-13721-ND	8.90	7.12	6.01	—	—	MSP430F435IPN
			128/160			8-Ch., 12-Bit	1			100-LQFP	296-12635-ND	8.90	7.12	6.01	—	—	MSP430F435IPZ
	512	14	128	2	1	3-Ch., 16-Bit**	1	DC-8MHz	1.8-3.6 V	64-LQFP	296-17109-ND	9.90	7.92	6.69	—	—	MSP430F425IPM
								DC-8.4MHz	2.7-3.6 V		296-16992-ND	9.08	8.18	7.25	—	—	MSP430FE425IPM
24K	1K	48	128/160	2	2	8-Ch., 12-Bit	1	DC-8MHz	1.8-3.6 V	80-LQFP	296-13722-ND	9.40	7.52	6.35	—	—	MSP430F436IPN
										100-LQFP	296-12636-ND	9.40	7.52	6.35	—	—	MSP430F436IPZ
32K	1K	48	96	2	2	Slope	—	DC-8MHz	1.8-3.6 V	64-LQFP	296-16767-ND	7.80	6.24	5.27	—	—	MSP430F417IPM
		48	128/160		2	8-Ch., 12-Bit	1			80-LQFP	296-13723-ND	9.80	7.84	6.62	—	—	MSP430F437IPN
		48	128/160		2	8-Ch., 12-Bit	1			100-LQFP	296-12637-ND	9.80	7.84	6.62	—	—	MSP430F437IPZ
		48	128		2	3-Ch., 16-Bit**	1			80-LQFP	296-17011-ND	10.83	9.75	8.65	—	—	MSP430FG437IPN
		48	160		2	8-Ch., 12-Bit	2			100-LQFP	296-12638-ND	9.58	8.63	7.65	—	—	MSP430F447IPZ
	1K	14	128	—	1	3-Ch., 16-Bit**	1	DC-8.4MHz	1.8-3.6 V	64-LQFP	296-17110-ND	9.00	8.10	7.19	—	—	MSP430F427IPM
		14			1	3-Ch., 16-Bit**		DC-8.4MHz	2.7-3.6 V	64-LQFP	296-16993-ND	9.91	8.93	7.92	—	—	MSP430FE427IPM
		48			3	12-Ch., 16-Bit		DC-8MHz	1.8-3.6 V	80-LQFP	296-18611-1-ND ***NEW!***	10.83	9.75	8.65	1,000	8028.00	MSP430FG437IPNR
48K	2K	48	160	2	2	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	100-LQFP	296-12639-ND	10.83	9.75	8.65	—	—	MSP430F448IPZ
			128				1			80-LQFP	296-17012-ND	12.25	11.03	9.78	—	—	MSP430FG438IPN
60K	2K	48	160	2	2	8-Ch., 12-Bit	2	DC-8MHz	1.8-3.6 V	100-LQFP	296-12640-ND	11.75	10.58	9.38	—	—	MSP430F449IPZ
			128				1			80-LQFP	296-17013-ND	13.24	11.93	10.58	—	—	MSP430FG439IPN
ROM/OTP Based X3xx Family with LCD Driver — EPROM/OTP (Program) Memory																	
1K	128	16	—	—	3	Slope	2	DC-6.0MHz	1.8-3.6 V	20-TVSOP	296-18104-ND	2.25	1.80	1.35	—	—	MSP430F2101IDGV
		16			3	Slope	2	DC-6.0MHz		20-SOIC	296-18105-1-ND	2.25	1.80	1.35	2,000	1170.00/M	MSP430F2101IDWR
		16			3	Slope	—	DC-6.0MHz		20-TSSOP	296-18106-1-ND	2.25	1.80	1.35	2,000	1170.00/M	MSP430F2101IPWR
		16			3	Slope	—	DC-6.0MHz		24-QFN	296-18107-1-ND	2.25	1.80	1.35	250	315.00	MSP430F2101IRGET
		10			1	3-Ch., 16-Bit	—	DC-16MHz		14-TSSOP	296-19313-1-ND ***NEW!***	3.38	2.70	2.10	2,000	1913.00/M	MSP430F2003IPWR
2K	128	16	—	—	3	Slope	—	DC-6.0MHz	1.8-3.6 V	20-TVSOP	296-18108-ND	2.48	1.98	1.49	—	—	MSP430F2111IDGV
		16			3	Slope	—			20-SOIC	296-18109-1-ND	2.48	1.98	1.49	2,000	1287.00/M	MSP430F2111IDWR
		16			3	Slope	—			20-TSSOP	296-18110-1-ND	2.48	1.98	1.49	2,000	1287.00/M	MSP430F2111IPWR
		16			3	Slope	—			24-QFN	296-18111-1-ND	2.48	1.98	1.49	250	346.50	MSP430F2111IRGET
		10			1	3-Ch., 16-Bit	1			14-TSSOP	296-19262-1-ND	3.71	2.97	2.31	2,000	2104.00/M	MSP430F2013IPWR
4K	256	16	—	—	3	Slope	—	DC-6.0MHz	1.8-3.6 V	20-TVSOP	296-18112-ND	3.04	2.43	1.89	—	—	MSP430F2121IDGV
										20-SOIC	296-18113-1-ND	3.04	2.43	1.89	2,000	1721.00/M	MSP430F2121IDWR
										20-TSSOP	296-18114-1-ND	3.04	2.43	1.89	2,000	1721.00/M	MSP430F2121IPWR
										24-QFN	296-18115-1-ND	3.04	2.43	1.89	250	449.00	MSP430F2121IRGET
8K	256	16	—	—	3	Slope	—	DC-6.0MHz	1.8-3.6 V	20-TVSOP	296-18116-ND	3.83	3.06	2.38	—	—	MSP430F2131IDGV
										20-SOIC	296-18117-1-ND	3.83	3.06	2.38	2,000	2168.00/M	MSP430F2131IDWR
										20-TSSOP	296-18118-1-ND	3.83	3.06	2.38	2,000	2168.00/M	MSP430F2131IPWR
										24-QFN	296-18119-1-ND	3.83	3.06	2.38	250	565.25	MSP430F2131IRGET
16K	256	32	56	—	3	SD16	—	DC-4.15MHz	1.8-3.6 V	48-SSOP	296-18068-1-ND	6.20	4.96	4.19	1,000	3875.00	MSP430F4250IDLR
										48-QFN	296-19264-1-ND	6.20	4.96	4.19	250	1007.50	MSP430F4250IRGZT
	512	14	64/92	2	—	Slope	—	DC-3.3MHz	2.5-5.5 V	56-SSOP	296-2382-5-ND	8.75	7.88	6.99	—	—	MSP430P315IDL
										48-SSOP	296-6512-5-ND	8.75	7.88	6.99	—	—	MSP430P315SIDL
	512	14	84	2	—	6-Ch., 14-Bit	—	DC-3.3MHz	2.5-5.5 V	68-PLCC	296-6513-5-ND	11.58	10.43	9.25	—	—	MSP430P325AIFN
									2.5-5.5 V	64-QFP	296-6514-ND	11.41	10.28	9.12	—	—	MSP430P325AIPG
									2.5-5.5 V	64-LQFP	296-6515-ND	11.41	10.28	9.12	—	—	MSP430P325AIPM
									2.7-5.5 V	68-PLCC	296-1409-5-ND	11.58	10.43	9.25	—	—	MSP430P325IFN
									2.7-5.5 V	64-QFP	296-2383-ND	11.50	10.35	9.18	—	—	MSP430P325IPG
									2.7-5.5 V	64-LQFP	296-6516-ND	11.41	10.28	9.12	—	—	MSP430P325IPM
24K	256	32	56	—	3	SD16	—	DC-4.15MHz	1.8-3.6 V	48-SSOP	296-18069-1-ND	6.90	5.52	4.66	1,000	4313.00	MSP430F4260IDLR
32K	1K	40	120	2	1	Slope	1	DC-3.8MHz	2.7-5.5 V	100-QFP	296-2384-ND	12.74	11.48	10.18	—	—	MSP430P337AIPJM
											296-6517-ND	12.74	11.48	10.18	—	—	MSP430P337IPJM
	256	32	56	—	3	SD16	—	DC-4.15MHz	1.8-3.6 V	48-SSOP	296-18070-1-ND	7.60	6.08	5.13	1,000	4750.00	MSP430F4270IDLR
	5120	48	—			8-Ch., 12-Bit	2			64-LQFP	296-18501-ND	13.74	12.38	10.98	—	—	MSP430F1610IPM
	5120	48	—			8-Ch., 12-Bit	2			64-QFN	296-18101-1-ND	13.74	12.38	10.98	250	2629.75	MSP430F1610IRTDT
48K	10240	48	—	—	3	8-Ch., 12-Bit	2	DC-4.15MHz	1.8-3.6 V	64-QFN	296-18102-1-ND	14.41	12.98	11.51	250	2757.25	MSP430F1611IRTDT
55K	5120	48	—	—	3	8-Ch., 12-Bit	2	DC-4.15MHz	1.8-3.6 V	64-LQFP	296-17885-ND	14.91	13.43	11.91	—	—	MSP430F1612IPM
										64-QFN	296-18103-1-ND	14.91	13.43	11.91	250	2852.75	MSP430F1612IRTDT

* For Tape and Reel part number, change 1-ND to 2-ND ** Sigma Delta

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TEXAS INSTRUMENTS Digital Signal Processors

TMS320C6000™ Family

TMS320C6000™ DSP Platform — Combining high-performance hardware with considerable development resources, TI's C6000™ DSP platform provides cost efficiency and low power dissipation. Raising the bar in performance, the C6000 DSP platform offers the industry's fastest DSPs running at clock speeds up to 720 MHz and scalable to 1 GHz. The platform, which features a wide range of fully code-compatible devices, consists of the TMS320C64x™, TMS320DM64x™ and TMS320C62x™ DSP fixed-point generations as well as the TMS320C67x™ DSP floating-point generation. Optimal for designers working on targeted broadband infrastructure, performance audio and imaging applications.

RAM (Bytes) L1 Program Cache/ L1 Data Cache/ L2 Unified RAM/Cache	McBSP**	Enhanced DMA (Channels)	COM	Timers	Operating Voltage (V)		MIPS	Frequency (MHz)	Total Internal Power (W) (Full Device Power)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
					Core	I/O						1	25	100	
TMS320C64x (Fixed Point)															
16K / 16K / 1M	3+UTOPIA	64	PCI / HPI 32/16	3	1.4	3.3	4800	600	1.06	532-BGA	296-14387-ND	171.68	160.23	148.79	TMS32C6416DGLZ6E3
					1.2	3.3	4000	500	0.64		296-14386-ND	143.06	133.52	123.99	TMS32C6416DGLZ5E0
16K / 16K / 1M	3+UTOPIA	64	PCI / HPI 32/16	3	1.4	3.3	4800	600	1.06	532-BGA	296-14385-ND	156.08	145.67	135.27	TMS32C6415DGLZ6E3
	2+UTOPIA				1.2	3.3	5760	720	1.7		296-17756-ND	161.03	150.29	139.56	TMS320C6415TGLZ7
16K / 16K / 1M	3	64	HPI 32/16	3	1.4	3.3	4800*	600	1.06	532-BGA	296-14383-ND	148.26	138.38	128.50	TMS32C6414DGLZ6E3
					1.2	3.3	4000*	500	0.64		296-14382-ND	123.56	115.32	107.09	TMS32C6414DGLZ5E0
					1.2	3.3	5760	720	1.7		296-17757-ND	153.30	143.08	132.86	TMS320C6414TGLZ7
16K / 16K / 256K	2	64	PCI / HPI 32/16	3	1.2	3.3	2400*	300	0.64	532-BGA	296-15114-ND	59.64	55.67	51.69	TMS320C6411GLZ
			HPI 32/16				4000	500	1.0	288-BGA	296-17479-ND	40.50	37.80	35.10	TMS320C6413GTS500
16K / 16K / 256K	2	64	PCI / HPI / EMAC	3	1.4	3.3	4800	600	1.5	548-BGA	296-18663-ND‡	72.38	67.55	62.73	TMS320C6412ZDK600
			HPI 32/16		1.2	3.3	4000	500	1.0	288-BGA	296-18664-ND‡	40.50	37.80	35.10	TMS320C6413ZTS500
16K / 16K / 512K	2	64	HPI 32/16	3	1.4	3.3	4800	600	1.5	288-BGA	296-17480-ND	75.45	70.42	65.39	TMS320C6418GTS600
16K / 16K / 1024K	3	64	HPI 32/16	3	1.2	3.3	5760	720	1.36	532-BGA	296-19386-ND‡ ***NEW!***	160.50	149.80	139.10	TMS320C6414TZLZ7
	3		HPI 32/16						1.7		296-17487-ND	192.68	179.83	166.99	TMS32C6414EGLZ7E3
	2		PCI / HPI 32/16						1.36		296-19387-ND‡ ***NEW!***	161.03	150.29	139.56	TMS320C6415TZLZ7
	3		HPI 32/16						1.7		296-17488-ND	216.32	189.28	175.76	TMS32C6415EGLZ7E3
	3		HPI 32/16						1.7		296-17489-ND	267.66	208.18	193.31	TMS32C6416EGLZ7E3
16K / 16K / 512K	2	64	HPI 32/16	3	1.4	3.3	4800	600	1.7	288-BGA	296-19388-ND‡ ***NEW!***	84.00	78.40	72.80	TMS320C6418ZTS600

* Includes on-chip Turbo (TCP) and Viterbi (VCP) co-processors ** Multi-Channel Buffered Serial Port † Format represents cache memory architecture: [program cache] / [data cache] / [unified cache] ◊ Enhanced DMA ***‡ RoHS Compliant****

TMS320C6000™ Family *(Cont.)*

RAM (Bytes) Program	Data	McBSP**	DMA (Channels)	COM	Timers	Operating Voltage (V) Core	I/O	MIPS	Frequency (MHz)	Total Internal Power (W) (Full Device Power)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C62x (Fixed Point)																
4K / 4K / 64K†		2	16◊	HPI / 16	2	1.8	3.3	1336	167	1.0	256-BGA	296-12560-ND	42.30	39.48	36.66	TMS320C6211BGFN167
								1200	150	0.9		296-10747-ND	33.81	31.56	29.31	TMS320C6211GFN150
								1200	150	0.9		296-12559-ND	33.83	31.57	29.32	TMS320C6211BGFN150
64K	64K	2	4	PCI / 32	2	1.5	3.3	1600	200	0.8	288-BGA	296-12673-ND	15.68	14.63	13.59	TMS320C6205GHK200
				PCI / 32								296-19385-ND‡ ***NEW!***	15.65	14.61	13.56	TMS320C6205ZHK200
				Exp. Bus / 32								296-13381-5-ND	32.93	30.73	28.54	TMS320C6204GLW200
				Exp. Bus / 32								296-12672-ND	16.16	14.55	12.91	TMS320C6204GHK200
384K	512K	3	4	Exp. Bus / 32	2	1.5	3.3	2400	300	1.3	384-BGA	296-13801-ND	111.98	104.51	97.05	TMS320C6203BGNY300
								2400	300	1.3	352-BGA	296-14756-5-ND	111.98	104.51	97.05	TMS320C6203BGNZ300
								2000	250	1.1	384-BGA	296-13800-ND	94.95	88.62	82.29	TMS320C6203BGNY173
								2000	250	1.1	352-BGA	296-15124-5-ND	94.95	88.62	82.29	TMS320C6203BGNZ173
256K	128K	3	4	Exp. Bus / 32	2	1.5	3.3	2400	300	1.0	384-BGA	296-14380-ND	105.38	98.35	91.33	TMS320C6202BGNY300
								2400	300	1.0	352-BGA	296-14381-ND	105.38	98.35	91.33	TMS320C6202BGNZ300
								2000	250	0.9	384-BGA	296-15122-5-ND	88.28	82.39	76.51	TMS320C6202BGNY250
								2000	250	0.9	352-BGA	296-15123-5-ND	88.28	82.39	76.51	TMS320C6202BGNZ250
256K	128K	3	4	Exp. Bus / 32	2	1.8	3.3	2000	250	2.1	352-BGA	296-10745-ND	172.88	161.35	149.83	TMS320C6202GJL250
											384-BGA	296-10746-ND	172.88	161.35	149.83	TMS320C6202GLS250
64K	64K	2	4	HPI / 16	2	1.8	3.3	1600	200	1.3	352-BGA	296-10744-ND	129.90	121.24	112.58	TMS320C6201GJL200
											384-BGA	296-10743-ND	129.90	121.24	112.58	TMS320C6201GJC200

RAM (Bytes) Program	Data	McBSP**	DMA (Channels)	COM	Timers	Operating Voltage (V) Core	I/O	MFLOPS	Frequency (MHz)	Total Internal Power (W) (Full Device Power)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C67x (Floating Point)																
64K	64K	2	4	HPI / 16	—	1.8	3.3	900	150	1.3	352-BGA	296-10748-ND	123.38	115.15	106.93	TMS320C6701GJC150
32K / 32K / 512K†			16 ◊	HPI / 16	2	1.8	3.3	600	100	0.8	256-BGA	296-12561-ND	33.81	31.56	29.31	TMS320C6711BGFN100
32K / 32K / 512K†			16 ◊	HPI / 16	2	1.2	3.3	1200	200	0.8	272-BGA	296-17149-ND	25.65	23.94	22.23	TMS320C6711DGDP200
4K / 4K / 64K†			16 ◊	HPI / 16	2	1.4	3.3	1500	250	0.9	272-BGA	296-17464-ND	27.60	25.76	23.92	TMS320C6711DGDP250
4K / 4K / 64K			16 ◊	HPI / 16	2	1.2	3.3	1200	200	0.9	272-BGA	296-19389-ND‡ ***NEW!***	25.65	23.94	22.23	TMS320C6711DZDP200
4K / 4K / 64K		2	16 ◊	—	2	1.2	3.3	900	150	0.7	272-BGA	296-19390-ND‡ ***NEW!***	20.70	19.32	17.94	TMS320C6712DZDP150
4K / 4K / 64K†			16 ◊	—	2	1.8	3.3	600	100	0.8	256-BGA	296-13509-ND	26.94	25.15	23.35	TMS320C6712GFN100
4K / 64K / 192K†			16 ◊	HPI / 16	2	1.4	3.3	1800	300	—	272-BGA	296-17377-ND	52.43	48.93	45.44	TMS320C6713BGDP300
4K / 64K / 192K†			16 ◊	HPI / 16	2	1.2	3.3	1200	200	1.0	208-HLQFP	296-17378-ND	30.00	28.00	26.00	TMS320C6713BPYP200
4K / 64K / 192K†			16 ◊	HPI / 16	2	1.2	3.3	1000	225	1.0	272-BGA	296-18277-ND	39.60	36.96	34.32	TMS320C6713BZDP225
4K / 4K / 256K		2	16 ◊	HPI / 16	2	1.4	3.3	1800	300	1.6	272-BGA	296-19391-ND‡ ***NEW!***	55.23	51.55	47.87	TMS320C6713BZDP300
32K /128K / 384K			DMAX	—	2	1.2	3.3	1200	200	0.8	144-HTQFP	296-19448-ND‡ ***NEW!***	16.86	15.74	14.62	TMS320C6722RFP200
32K / 256K / 684K			DMAX	UHPI	2	1.2	3.3	1200	300	1.1	256-BGA	296-19449-ND‡ ***NEW!***	33.81	31.56	29.31	TMS320C6727GDH300
32K / 256K / 384K			DMAX	UHPI	2	1.2	3.3	1200	300	1.1	256-BGA	296-19450-ND‡ ***NEW!***	33.81	31.56	29.31	TMS320C6727ZDH300

* Includes on-chip Turbo (TCP) and Viterbi (VCP) co-processors ** Multi-Channel Buffered Serial Port † Format represents cache memory architecture: [program cache] / [data cache] / [unified cache] ◊ Enhanced DMA ‡ ***RoHS Compliant***

TMS320C5000™ Family

TMS320C5000™ DSP Platform

The C5000™ DSP platform offers a broad portfolio, including the OMAP5910 processor, which integrates a TMS320C55x™ DSP core with a TI-enhanced ARM® on a single chip. With the industry's most power-efficient performance, peripheral options and small packaging, this platform provides designers a lead in today's portable Internet and wireless communication markets. Optimal for designers of power-sensitive systems, the C5000 DSP platform offers power consumption as low as 0.33 mA/MHz and performance up to 600 MIPS.

RAM (Bytes)	ROM (Bytes)	USB	ADC	I2C	RTC	McBSP**	MMC/SD	Timers	MIPS	Operating Voltage (V) Core	I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C55x (Fixed Point)																		
320K	32K	—	—	—	—	3	—	2	400	1.6	3.3	200	240-BGA	296-14199-5-ND	30.75	28.70	26.65	TMS320VC5510AGGW2
256K	64K	Y	Y	Y	Y		Y		288	1.6	3.3		179-BGA	296-16701-ND	25.95	24.22	22.49	TMS320VC5509AGHH
256K	64K	Y	Y	Y	Y		Y		288	1.6	3.3		144-LQFP	296-17351-ND	25.95	24.22	22.49	TMS320VC5509APGE
64K	64K	Y	Y	Y	Y		Y		400	1.6	2.7		144-LQFP	296-17287-ND	16.95	15.82	14.69	TMS320VC5507PGE
64K	64K	Y	Y	Y	Y		Y		400	1.6	2.7		179-BGA	296-17286-ND	16.95	15.82	14.69	TMS320VC5507GHH
64K	64K	—	—	Y	Y	3	—	2	400	1.6	2.7	200	179-BGA	296-17383-ND	13.08	11.78	10.45	TMS320VC5503GHH
	64K				Y			2	400	1.6	2.7	200	144-LQFP	296-17384-ND	13.08	11.78	10.45	TMS320VC5503PGE
	32K				—			3	400	1.26	3.3	200	201-BGA	296-17381-ND	12.58	11.33	10.05	TMS320VC5502GZZ200
	32K				—			3	600	1.26	3.3	200	201-BGA	296-17405-ND	16.16	14.55	12.91	TMS320VC5502GZZ300
	32K				—			3	600	1.26	3.3	300	176-LQFP	296-17382-ND	15.33	13.80	12.24	TMS320VC5502PGF300
32K	32K	—	—	Y	—	2	—	3	600	1.26	3.3	300	201-BGA	296-17379-ND	8.33	7.50	6.65	TMS320VC5501GZZ300
													176-LQFP	296-17380-ND	9.00	7.20	6.08	TMS320VC5501PGF300

RAM (Bytes)	ROM (Bytes)	McBSP**	Timers	MIPS	Operating Voltage (V) Core	I/O	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
TMS320C54x (Fixed Point)													
6K	48K	2	1	50	3.3	3.3	50	128-LQFP	296-2014-5-ND	23.42	21.86	20.30	TMS320LC545APBK-50
10K	56K	2	1	66	3.3	3.3	66	100-LQFP	296-1930-5-ND	15.32	14.30	13.28	TMS320LC541BPZ-66
16K	8K	2	2	50	1.8	3.3	50	144-LQFP	296-12148-5-ND	6.80	5.44	4.59	TMS320VC5401PGE50
								144-BGA	296-12147-5-ND	6.80	5.44	4.59	TMS320VC5401GGU50
								144-BGA	296-19392-ND‡ ***NEW!***	6.80	5.44	4.59	TMS320VC5401ZGU50
32K	32K	3	1	160	1.6	3.3	160	144-BGA	296-12676-ND	15.98	14.91	13.85	TMS320VC5402AGGU16
	32K	3	1	160	1.6	3.3	160	144-LQFP	296-12677-ND	15.98	14.91	13.85	TMS320VC5402APGE16
	8K	2	2	80	1.8	1.8-3.6	80	144-BGA	296-10759-ND	9.00	8.10	7.19	TMS320UC5402GGU-80
	8K	2	2	100	1.8	3.3	100	144-BGA	296-10761-ND	9.00	8.10	7.19	TMS320VC5402GGU100
	8K	2	2	80	1.8	1.8-3.6	80	144-LQFP	296-10760-ND	9.00	8.10	7.19	TMS320UC5402PGE-80
	8K	2	2	100	1.8	3.3	100	144-LQFP	296-10762-ND	9.00	8.10	7.19	TMS320VC5402PGE100
	128K	3	2	120	1.5	3.3	120	144-BGA	296-17150-ND	12.99	11.70	10.38	TMS320VC5404GGU
	128K	3	2	120	1.5	3.3	120	144-LQFP	296-15712-ND	12.99	11.70	10.38	TMS320VC5404PGE
	32K	3	1	160	1.6	3.3	160	144-BGA	296-19393-ND‡ ***NEW!***	15.98	14.91	13.85	TMS320VC5402AZGU16
64K	32K	3	1	120	1.5	3.3	120	144-BGA	296-12073-ND	17.25	16.10	14.95	TMS320VC5409AGGU12
				160	1.6	3.3	160	144-BGA	296-12074-ND	20.18	18.83	17.49	TMS320VC5409AGGU16
				120	1.5	3.3	120	144-LQFP	296-12075-ND	17.25	16.10	14.95	TMS320VC5409APGE12
				160	1.6	3.3	160	144-LQFP	296-12076-ND	20.18	18.83	17.49	TMS320VC5409APGE16
				80	1.8	1.8-3.6	100	144-BGA	296-12112-ND	13.91	12.53	11.11	TMS320UC5409GGU-80
				100	1.8	3.3	100	144-BGA	296-10763-ND	15.38	14.35	13.33	TMS320VC5409GGU100
				100	1.8	3.3	100	144-LQFP	296-10764-ND	15.38	14.35	13.33	TMS320VC5409PGE100
				80	1.8	1.8-3.6	100	144-LQFP	296-12146-5-ND	13.91	12.53	11.11	TMS320UC5409PGE-80
	32K	3 ◊	1	80	2.5	3.3	80	144-BGA	296-1933-5-ND	39.98	37.31	34.65	TMS320VC549GGU-80
				100			100	144-BGA	296-2016-5-ND	44.03	41.09	38.16	TMS320VC549GGU-100
				80			80	144-LQFP	296-1935-5-ND	39.98	37.31	34.65	TMS320VC549PGE-80
80K	256K	2	2	120	1.5	3.3	120	144-BGA	296-15637-ND	13.16	11.85	10.51	TMS320C54CSTGGU
				118			118	144-BGA	296-15033-ND	15.30	14.28	13.26	TMS320C54V90AGGU
				118			118	144-LQFP	296-15034-ND	15.30	14.28	13.26	TMS320C54V90APGE
				118			118	144-BGA	296-16933-ND	15.30	14.28	13.26	TMS320C54V90BGGU
				118			118	144-LQFP	296-16934-ND	15.30	14.28	13.26	TMS320C54V90BPGE
				120			120	144-BGA	296-19384-ND‡ ***NEW!***	13.16	11.85	10.51	TMS320C54CSTZGU
128K	32K	3	1	120	1.5	3.3	120	144-BGA	296-12077-ND	21.75	20.30	18.85	TMS320VC5410AGGU12
				160	1.6	3.3	160	144-BGA	296-12078-ND	24.15	22.54	20.93	TMS320VC5410AGGU16
				120	1.5	3.3	120	144-LQFP	296-12079-ND	21.75	20.30	18.85	TMS320VC5410APGE12
				160	1.6	3.3	160	144-LQFP	296-12080-ND	24.15	22.54	20.93	TMS320VC5410APGE16

** Multi-Channel Buffered Serial Port ◊ 1TDM port ‡ ***RoHS Compliant***

(Continued)

TMS320C5000™ Family *(Cont.)*

RAM (Bytes)	ROM (Bytes)	McBSP**	Timers	MIPS	Operating Voltage (V)		Frequency (MHz)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
					Core	I/O				1	25	100	
256K	32K	3	1	120	1.5	3.3	120	144-BGA	296-12168-ND	36.30	33.88	31.46	TMS320VC5416GGU120
				160	1.6	3.3	160	144-BGA	296-11660-ND	40.28	37.59	34.91	TMS320VC5416GGU160
				120	1.5	3.3	120	144-LQFP	296-12169-ND	36.30	33.88	31.46	TMS320VC5416PGE120
				160	1.6	3.3	160	144-LQFP	296-12170-ND	40.28	37.59	34.91	TMS320VC5416PGE160
384K	—	6	2	200	1.8	3.3	100	144-BGA	296-10767-ND	88.88	82.95	77.03	TMS320VC5420GGU200
								144-LQFP	296-12191-ND	88.88	82.95	77.03	TMS320VC5420PGE200
512K	8K	6	2	200	1.8	3.3	100	144-BGA	296-10768-ND	91.05	84.98	78.91	TMS320VC5421GGU200
								144-LQFP	296-10769-ND	91.05	84.98	78.91	TMS320VC5421PGE200
1280K	—	12	4	532	1.6	3.3	133	169-BGA	296-15127-5-ND	168.15	156.94	145.73	TMS320VC5441GGU

** Multi-Channel Buffered Serial Port ◊ 1TDM port ‡ ***RoHS Compliant***

OMAP — ARM9 + C55x

OMAP Processors integrating the command and control functionality of ARM, coupled with low-power, real-time signal processing capabilities of a DSP. The OMAP59xx platform is ideal for portable data terminal applications such as portable medical devices (portable defibrillation, home medical test and analysis) asset and inventory management, (parcel tracking and location, stock inventory and replenishment, real-time data capture with analysis and interpretation) and point of sale (sales and membership processing, merchandising and pricing management verification and authentication) It enables embedded developers to program using familiar development environments by supporting leading operating systems such as Microsoft® Windows® CE.NET, Linux®, and TI's DSP/BIOS real-time scalable kernel. This open development environment makes it possible for designers to deliver innovative products to the market faster, utilizing familiar tools, a standard application programming interface (API) and a seamless interface to the DSP through an optimized interprocessor communication mechanism. The built-in interprocessor communication mechanism eliminates the need for developers to program the RISC and DSP independently resulting in reduced programming efforts.

CPU	RAM (Bytes)	ROM (Bytes)	Serial Ports	Timers	Misc.	Operating Volt. (V)		Frequency (MHz)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
						Core	I/O				1	25	100	
Fixed Point														
C55x ARM9DTMI	160K 192K†	32K —	2 McBSP, 2 MCSI 1 McBSP, USB 1.1, I2C, µwire, IRDA, 3 UARTS	3 GP, 1 WDT 3 GP, 1 WDT, 1 OS	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	150	289-BGA	296-16744-ND	37.50	35.00	32.50	OMAP5910JGZG2
C55x ARM9DTMI	160K 192K†	32K —	2 McBSP, 2 MCSI 1 McBSP, USB 1.1, I2C, µwire, IRDA, 3 UARTS	3 GP, 1 WDT 3 GP, 1 WDT, 1 OS	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	150	289-BGA	296-17462-ND	38.85	36.26	33.67	OMAP5910JGDY2
C55x ARM9DTMI	160K 192K†	32K —	2 McBSP, 2 MCSI 1 McBSP, USB 1.1, I2C, µwire, IRDA, 3 UARTS	3 GP, 1 WDT 3 GP, 1 WDT, 1 OS	3 Video Accel., MMU LCD, Camera, RTC, MMU	1.6	1.8/2.75/ 3.3*	150	289-BGA	296-18502-ND	37.50	35.00	32.50	OMAP5910JZZG2

† Shared with C55x CPU * External memory interfaces may use 1.8, 2.75, or 3.3V nominal

TMS320C54x Family — ARM7 + C54x

CPU	RAM (Bytes)	ROM (Bytes)	Serial Ports	Timers	Misc.	Ethernet	Operating Volt. (V)		Frequency (MHz)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
							Core	I/O				1	25	100	
DSP + RISC (Fixed Point)															
C54x ARM7TDMI	144K 16K	N/A	2 McBSP I2C, SPI, 2 UARTs (1 IRDA)	1 2	PLL, API PLL, WD	— —	1.8	3.3	100 47.5	257-BGA	296-12751-ND	17.85	16.66	15.47	TMS320VC5470GHK
C54x ARM7TDMI	144K 16K	N/A	2 McBSP I2C, SPI, 2 UARTs (1 IRDA)	1 2	PLL, API PLL, WD	— 10/100, MAC	1.8	3.3	100 47.5	257-BGA	296-12752-ND	19.43	18.13	16.84	TMS320VC5471GHK

TMS320C3x Family

RAM (32-Bit Word)	ROM (32-Bit Word)	DMA	Timers	MIPS	Operating Voltage (V)	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
										1	25	100	
TMS320C3x (Floating Point)													
512	Supports Bootloader	2	2	20	5	40	0~85	144-PQFP	296-1928-5-ND	16.06	14.46	12.83	TMS320C32PCM40

TMS320C2000™ Family

The C2000™ DSP platform offers the most comprehensive line of DSP solutions driving the digital control revolution, the C2000 DSP platform provides the industry's highest performing and most code-efficient DSPs. With a unique combination of on-chip peripherals such as Flash memory, ultrafast A/D converters as well as robust CAN modules, the C2000 DSP platform sets the standard for performance and peripheral integration.

Flash (16-Bit Word)	RAM (16-Bit Word)	Boot ROM (16-Bit Word)	EMIF	Timers	PWM Chan.	SPI	SCI	CAN	MIPS	Operating Voltage (V)	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
															1	25	100	
TMS320C24x (Fixed Point)																		
8K	1K	256	—	2	8	—	Y	—	40	3.3	40	-40 ~ 125	64-PQFP	296-12545-ND	12.99	11.70	10.38	TMS320LF2402APGS
					8							-40 ~ 85	64-LQFP	296-12544-ND	11.83	10.65	9.45	TMS320LF2402APGA
					7							-40 ~ 85	32-LQFP	296-14411-ND	6.30	5.60	4.73	TMS320LF2401AVFA
					7							-40 ~ 125	32-LQFP	296-19288-1-ND	7.70	6.16	5.20	TMS320LF2401AVFS
					7							-40 ~ 125	32-LQFP	296-19288-2-ND		1251.25/250		TMS320LF2401AVFS
	544	—	—	2	8	Y	Y	Y	20	5	20	0 ~ 70	144-LQFP	296-10755-ND	18.48	17.25	16.02	TMS320F243PGE
								Y					64-QFP	296-10753-ND	16.37	15.28	14.19	TMS320F241PG
								—					38-PLCC	296-10750-5-ND	17.69	16.51	15.33	TMS320F241FN
16K	544	—	Y	3	12	Y	Y	—	20	5	20	-40 ~ 125	132-PQFP	296-2011-5-ND	23.57	22.00	20.43	TMS320F240PQS
	544	—	Y	3	12			—	20	5	20	0 ~ 70	132-PQFP	296-2009-5-ND	21.45	20.02	18.59	TMS320F240PQ
	1K	256	—	2	8			Y	40	3.3	40	-40 ~ 125	64-LQFP	296-12675-ND	15.08	13.58	12.04	TMS320LF2403APAGS
	1K	256	—	2	8			Y	40	3.3	40	-40 ~ 85	64-LQFP	296-12674-ND	13.74	12.38	10.98	TMS320LF2403APAGA
32K	2.5K	256	Y	4	16	Y	Y	Y	40	3.3	40	-40 ~ 125	144-LQFP	296-12549-ND	16.24	14.63	12.97	TMS320LF2407APGES
			Y									-40 ~ 85	144-LQFP	296-12548-ND	14.74	13.28	11.78	TMS320LF2407APGEA
			—									-40 ~ 125	100-LQFP	296-12547-ND	15.33	13.80	12.24	TMS320LF2406APZS
			—									-40 ~ 85	100-LQFP	296-12546-ND	13.91	12.53	11.11	TMS320LF2406APZA

Flash (16-Bit Word)	RAM (16-Bit Word)	ROM (16-Bit Word)	Boot ROM (16-Bit Word)	McBSP	EMIF	Timers	PWM Chan.	SPI	SCI	CAN	MIPS	Operating Voltage (V)		Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each			Texas Instruments Part No.
												Core	I/O					1	25	100	
TMS320C28x Family (Fixed Point)																					
16K	6K	2K	4K	—	—	9	8	Y	1	Y	100	1.8	3.3	100	-40 ~ 85	100-BGA	296-18320-ND	9.66	8.70	7.72	TMS320F2801GGMA
															-40 ~ 125	100-BGA	296-18321-ND	10.66	9.60	8.52	TMS320F2801GGMS
															-40 ~ 85	100-LQFP	296-18322-ND	9.66	8.70	7.72	TMS320F2801PZA
															-40 ~ 125	100-LQFP	296-18323-ND	10.66	9.60	8.52	TMS320F2801PZS
															-40 ~ 85	100-BGA	296-18324-ND	9.66	8.70	7.72	TMS320F2801ZGMA
															-40 ~ 125	100-BGA	296-18325-ND	10.66	9.60	8.52	TMS320F2801ZGMS
32K	12K	64K	8K	—	—	9	16	2	2	1	100	1.8	3.3	100	-40 ~ 85	100-LQFP	296-19599-ND‡ ***NEW!***	11.83	10.65	9.45	TMS320F2802PZA
															-40 ~ 125	100-LQFP	296-19600-ND‡ ***NEW!***	13.08	11.78	10.45	TMS320F2802PZS
															-40 ~ 85	100-BGA	296-19601-ND‡ ***NEW!***	11.83	10.65	9.45	TMS320F2802ZGMA
															-40 ~ 125	100-BGA	296-19602-ND‡ ***NEW!***	13.08	11.78	10.45	TMS320F2802ZGMS
32K	10K	2K	4K	—	—	15	16	Y	2	Y	100	1.8	3.3	100	-40 ~ 85	100-BGA	296-18326-ND	14.49	13.05	11.58	TMS320F2806GGMA
															-40 ~ 125	100-BGA	296-18327-ND	15.99	14.40	12.77	TMS320F2806GGMS
															-40 ~ 85	100-LQFP	296-18328-ND	14.49	13.05	11.58	TMS320F2806PZA
															-40 ~ 125	100-LQFP	296-18329-ND	15.99	14.40	12.77	TMS320F2806PZS
															-40 ~ 85	100-BGA	296-18330-ND	14.49	13.05	11.58	TMS320F2806ZGMA
															-40 ~ 125	100-BGA	296-18331-ND	15.99	14.40	12.77	TMS320F2806ZGMS

‡ ***RoHS Compliant***

(Continued)

TMS320C2000™ Family *(Cont.)*

Flash (16-Bit Word)	RAM (16-Bit Word)	ROM (16-Bit Word)	Boot ROM (16-Bit Word)	McBSP	EMIF	Timers	PWM Chan.	SPI	SCI	CAN	MIPS	Operating Voltage (V) Core	I/O	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
64K	18K	2K	4K	—	—	15	16	Y	2	Y	100	1.8	3.3	100	-40 ~ 85	100-BGA	296-18332-ND	17.40	16.24	15.08	TMS320F2808GGMA
															-40 ~ 125	100-BGA	296-18333-ND	19.13	17.85	16.58	TMS320F2808GGMS
															-40 ~ 85	100-LQFP	296-18334-ND	17.40	16.24	15.08	TMS320F2808PZA
															-40 ~ 125	100-LQFP	296-18335-ND	19.13	17.85	16.58	TMS320F2808PZS
															-40 ~ 85	100-BGA	296-18336-ND	17.40	16.24	15.08	TMS320F2808ZGMA
															-40 ~ 125	100-BGA	296-18337-ND	19.13	17.85	16.58	TMS320F2808ZGMS
64K	18K	1K	4K	Y	—	4	16	Y	2	Y	150	1.8	3.3	150	-40 ~ 85	128-LQFP	296-15987-5-ND	20.78	19.39	18.01	TMS320F2810PBKA
															-40 ~ 125	128-LQFP	296-17277-ND	26.33	24.57	22.82	TMS320F2810PBKQ
															-40 ~ 85	128-LQFP	296-15988-5-ND	22.13	20.65	19.18	TMS320F2811PBKA
															-40 ~ 125	128-LQFP	296-17278-ND	28.05	26.18	24.31	TMS320F2811PBKQ
128K	18K	1K	4K	Y	Y	4	16	Y	2	Y	150	1.8	3.3	150	-40 ~ 85	179-BGA	296-15989-5-ND	23.48	21.91	20.35	TMS320F2812GHHA
															-40 ~ 125	179-BGA	296-17279-ND	29.85	27.86	25.87	TMS320F2812GHHQ
															-40 ~ 125	176-LQFP	296-17280-ND	29.85	27.86	25.87	TMS320F2812PGFQ
128K	18K	2K	4K	Y	Y	7	16	Y	2	Y	150	1.9	3.3	150	-40 ~ 85	179-BGA	296-18338-ND	23.48	21.91	20.35	TMS320F2812ZHHA
															-40 ~ 125	179-BGA	296-18339-ND	25.88	24.15	22.43	TMS320F2812ZHHS
256K	32K	1K	8K	Y	—	7	1	Y	2	Y	150	1.8	3.3	150	-40 ~ 85	128-LQFP	296-18916-ND‡ ***NEW!***	15.24	13.73	12.17	TMS320R2811PBKA
															-40 ~ 125	128-LQFP	296-18917-ND‡ ***NEW!***	15.08	14.07	13.07	TMS320R2811PBKQ
															-40 ~ 85	176-LQFP	296-18918-ND‡ ***NEW!***	15.98	14.91	13.85	TMS320R2812PGFA
															-40 ~ 125	176-LQFP	296-18919-ND‡ ***NEW!***	17.55	16.38	15.21	TMS320R2812PGFQ

‡ ***RoHS Compliant***

Flash (16-Bit Word)	RAM (16-Bit Word)	ROM (16-Bit Word)	Timers	Serial	MIPS	Operating Voltage (V) Core	I/O	Frequency (MHz)	Temperature (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
								TMS320C20x (Fixed Point)							
32K	4.5K	—	1	2	20	3.3	5	40	0 ~ 70	100-LQFP	296-2007-5-ND	24.23	22.61	21.00	TMS320F206PZ
—		32K			40	3.3	5	80	0 ~ 70	100-TQFP	296-2001-5-ND	15.84	14.79	13.73	TMS320C206PZ80
—		32K			40	3.3	5	80	-40 ~ 85	100-TQFP	296-2002-5-ND	17.43	16.27	15.11	TMS320C206PZA80
—		32K			40	3.3	3.3	80	0 ~ 70	100-LQFP	296-2012-5-ND	17.49	16.33	15.16	TMS320LC206PZ80
—		32K			40	3.3	3.3	80	-40 ~ 85	100-LQFP	296-2013-5-ND	19.20	17.92	16.64	TMS320LC206PZA80

Flash/ROM (16-Bit Word)	RAM (16-Bit Word)	Boot ROM (16-Bit Word)	Timers	ADC	SPI	SCI	CAN	MIPS	Operating Voltage (V) Core	I/O	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
									TMX320C28x							
64K	18K	4K	15	16 ch/160	4	2	2	100	1.8	32	100-BGA	296-17606-ND	17.28	16.13	14.98	TMX320F2808GGMA

TMS470 Family

The TMS470 is derived from the 32-bit ARM7TDMI® core. This industry standard architecture includes two instruction sets a 32-bit instructions for fast execution and 16-bit instructions for high code density. It allows unlimited switching between instruction sets and also provides run time decompression. Typical applications include industrial systems, medical instrumentation, consumer electronics, data processing and many other general purpose embedded applications.

Flash (KB)	RAM (KB)	Timer Channels	ADC	SPI	SCI	CAN2	I/O 3.3V	Frequency (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Texas Instruments Part No.
									TMS470R1x					
64	8	13	8 Ch, 10-Bit	2	2	SCC	40	48	80-LQFP	296-19270-ND‡ ***NEW!***	9.90	7.92	6.69	TMS470R1A64PNT
128	8	16	16 Ch, 10-Bit	2	2	SCC	50	48	100-LQFP	296-17627-ND	8.48	7.64	6.77	TMS470R1A128PZ
128	8									296-19267-ND‡ ***NEW!***	9.91	8.93	7.92	TMS470R1A128PZ-T
256	12									296-17754-ND	9.76	8.79	7.80	TMS470R1A256PZ
256	12									296-19268-ND‡ ***NEW!***	11.58	10.43	9.25	TMS470R1A256PZ-T
288	16	16	12 Ch, 10-Bit	2	2	SCC	93	48	144-LQFP	296-18723-ND‡ ***NEW!***	13.24	11.93	10.58	TMS470R1A288PGEA
288	16	12					57		100-LQFP	296-19269-ND‡ ***NEW!***	12.74	11.48	10.18	TMS470R1A288PZA
384	32	16					94		144-LQFP	296-18724-ND‡ ***NEW!***	14.91	13.43	11.91	TMS470R1A384PGET
384	32	12					55		100-LQFP	296-19292-ND	14.41	12.98	11.51	TMS470R1A384PZ-T
768	48	32	16 Ch, 10-Bit	5	2	HECC	87	60	144-LQFP	296-19271-ND‡ ***NEW!***	19.43	18.13	16.84	TMS470R1B768PGE
										296-19335-ND‡ ***NEW!***	19.43	18.13	16.84	TMS470R1B768PGET
1000	64	16	12 Ch, 10-Bit	2	3	HECC	93	60	144-LQFP	296-18591-ND‡ ***NEW!***	22.43	20.93	19.44	TMS470R1B1MPGEA

‡ ***RoHS Compliant***

DSP Starter Kits

A wide variety of DSP boards and development kits are available from TI and TI's third party network. Products include development boards, evaluation modules, hardware/software bundles and DSP Starter Kits (DSKs) designed to accelerate the application design process from concept through production. DSP Starter Kits are bundled with a DSK-version of TI's Code Composer Studio Development Tools. These provide an excellent platform to evaluate TI DSP and development tools, quickly develop prototypes, demos and proof-of-concept applications at a very affordable getting started price. **Kit Contents:** • Development Board • Parallel PC Cable • US Power Supply • CD-ROM containing documentation and DSK version of Code Composer Studio (TMDSEZD2407: EzDSP version of Code Composer Studio)

Digi-Key Part No.	Price Each	Texas Instruments Part No.
296-15828-ND	455.40	TMDSEZD2407
296-15827-ND	521.40	TMDSDSK5510
296-15829-ND	521.40	TMDSDSK5416
296-15831-ND	521.40	TMDSDSK6713

eXpressDSP™ Code Composer Studio™

CCStudio's comprehensive, integrated development environment brings complete build and debug tooling, world-class compilers and industry unique analysis and visualization capabilities via JTAG Real-Time Data Exchange (RTDX) to quickly find and fix problems. The real-time foundation provided by TI's DSP/BIOS™ kernel, RTDX™ and TI's new simulation capabilities, offers key features such as real-time analysis and advanced data and system visualization, which results in the highest level of host/target integration in the DSP industry. In addition, CCStudio is engineered around an open plug-in architecture that enables developers to integrate additional third-party plug-in tools to customize their development environment for specific project requirements.

Includes: • C/C++ compiler, assembler and linker (code generation tools) with C++, UML, MATLAB and VAB support in compiler **CCStudio Key Features:** • Integrated development environment with tightly integrated editor, debugger, visual project management system, profiler and Probe Points™ • Advanced watch windows, local and global variable windows and profiler capabilities • Update Advisor - live update capability for the latest tools, drivers and software releases• Real-Time Data Exchange (RTDX) between host and target Real-time analysis and data visualization tools • File I/O Probe Points and graphical algorithm scope probes • Interactive profiling and advanced graphical signal analysis • GEL function support for automation activities such as regression testing • Automated testing and customization via scripting • Multi-processor debugging

Minimum System Requirements: • 233MHz or higher Pentium compatible CPU • 600MB of free hard disk space • 64MB of RAM • SVGA (800 x 600) display • Internet Explorer (4.0 or later) or Netscape Navigator (4.7 or later) • Local CD-ROM drive

Supported Operating Systems for Code Composer Studio: • Microsoft Windows 98 (SP1 and SE) • Microsoft Windows NT (SP6) • Microsoft Windows 2000 (SP1 and SP2) • Microsoft Windows XP

Description	Digi-Key Part No.	Price Each	Texas Instruments Part No.
C6000 Code Composer Studio Software for 320C6X	296-16633-ND	4044.38	TMDSCCS6000-1
C5000 Code Composer Studio Software for 320C5X	296-16631-ND	4044.38	TMDSCCS5000-1
C2000 Code Composer Studio Software for 320C2X	296-16632-ND	556.88	TMDSCCS2000-1

5-6K Interface Evaluation Module

The interface board consists of two signal conditioning sites, two serial EVM sites and a parallel EVM site. Three position screw terminals J1 and J2 and two position screw terminals J6, J8, J9 and J11 provides access to a common power bus routed to all sites. The 5-6K Interface board is intended to provide Data Converter customers with the greatest amount of flexibility for the evaluation of Data Acquisition Products from Texas Instruments. It maintains a compatible interface with the TMS320 Series (DSP).

Features: • Provides all necessary voltages for device under test • Bit clock for codecs • Flexible interface to popular TI DSP's • General codec requirements are addressed

Digi-Key Part No.	Price Each	Texas Instruments Part No.
296-18350-ND	62.78	5-6KINTERFACE

DAP Signal Conditioning Boards

The DAPSigCndBrdBPEVM can be used with Data Acquisition Products (DAPs), 5-6K Interface and C2000 Interface boards. This signal conditioning board, provides up to eight single ended or four differential conditioning channels for use with a wide selection of data converter evaluation boards. The DAPSigCndBrdBPEVM board has four dual supply OPA2132 operational amplifiers that operate at +/- 15 volts. This is a circuit board that gives the designer the ability to condition the input/output signal going to and from ADCs or DACs, through the use of bi-polar (OPA2132UA) amplifiers in the conditioning circuits.

Digi-Key Part No.	Price Each	Texas Instruments Part No.
296-18418-ND	62.78	DAPSIGCNDBRDBPEVM
296-18419-ND	62.78	DAPSIGCNDBRDUNPEVM

8032 Microcontroller Core Flash Programmable System Devices

The UPSD32XX Devices combine a Flash PSD architecture with an 8032 microcontroller core. The UPSD32XX Devices for Flash PSDs feature dual banks of Flash memory, SRAM, general purpose I/O and programmable logic, supervisory functions and access via I^{2}C, ADC and PWM channels, and an on-board 8032 microcontroller core, with two UARTs, three 16-bit Timer/Counters and two External Interrupts. As with other Flash PSD families, the UPSD32XX Devices are also in-system programmable (ISP) via a JTAG ISP interface. **Features:** • Content Security: Block access to Flash memory • Programmable Decode PLD for flexible address mapping of all memories within 8032 space. • I^{2}C interface for peripheral connections • 5 Pulse Width Modulator (PWM) channels • Analog-to-Digital Converter (ADC) • 3000 gate PLD with 16 macrocells • In-System Programming (ISP) via JTAG **Operating Temperature Range:** -40°C ~ 85°C

Flash Size (Kbit)	Main Flash (Bytes)	SRAM (Bytes)	Device Speed (MHz)	Number of I/O Pins	Operating Timer/ Counters	Supply Voltage	Package	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
512	64K	2K	40	37	3	5.0	52-TQFP	497-2363-ND	9.41	8.59	6.79	UPSD3212C-40T6
	64K	2K	40	46	3	5.0	80-TQFP	497-2364-ND	9.98	9.12	7.21	UPSD3212C-40U6
	64K	2K	24	37	3	3.0	52-TQFP	497-2365-ND	9.41	8.59	6.79	UPSD3212CV-24T6
	64K	2K	24	46	3	3.0	80-TQFP	497-2366-ND	9.98	9.12	7.21	UPSD3212CV-24U6
1K	128K	8K	40	37	3	5.0	52-TQFP	497-2367-ND	10.26	9.50	7.19	UPSD3233B-40T6
	128K	8K	40	46	3	5.0	80-TQFP	497-2368-ND	11.00	10.18	7.70	UPSD3233B-40U6
	128K	8K	24	37	3	3.0	52-TQFP	497-2369-ND	10.26	9.50	7.19	UPSD3233BV-24T6
	128K	8K	24	46	3	3.0	80-TQFP	497-2370-ND	11.00	10.18	7.70	UPSD3233BV-24U6
	128K	32K	40	37	3	5.0	52-TQFP	497-2374-ND	12.36	11.44	8.66	UPSD3253B-40T6
	128K	32K	24	37	3	3.0	52-TQFP	497-2375-ND	12.36	11.44	8.66	UPSD3253BV-24T6
2K	256K	8K	40	37	3	5.0	52-TQFP	497-2371-ND	11.52	10.66	8.07	UPSD3234A-40T6
	256K	8K	40	46	3	5.0	80-TQFP	497-2372-ND	12.26	11.35	8.59	UPSD3234A-40U6
	256K	8K	24	46	3	3.0	80-TQFP	497-2373-ND	11.56	10.70	8.10	UPSD3234BV-24U6
	256K	32K	40	37	3	5.0	52-TQFP	497-2376-ND	13.62	12.60	9.54	UPSD3254A-40T6
	256K	32K	40	46	3	5.0	80-TQFP	497-2377-ND	14.38	13.31	10.07	UPSD3254A-40U6
	256K	32K	24	46	3	3.0	80-TQFP	497-2378-ND	13.66	12.64	9.57	UPSD3254BV-24U6

Low Cost Field Programmable Microcontroller Peripherals

The low cost PSD3XX family integrates high-performance and user-configurable blocks of EPROM, programmable logic and optional SRAM into one part. The PSD3XX products also provide a powerful microcontroller interface that eliminates the need for external "glue logic". The part's integration, small form factor, low power consumption and ease of use make it ideal for interfacing to virtually any microcontroller.
Major functional blocks of the PSD3XX: • Two programmable logic arrays • 256Kb to 1Mb of EPROM • Optional 16Kb SRAM • Input latches • Programmable I/O ports • Page logic • Programmable security

The ZPSD3XX has improved technology that helps reduce current consumption using the Turbo bit. Excellent if you require a 5V version of the PSD3XX that uses less power.
Speed: -70 = 70ns, -90 = 90ns

No. PLD Inputs	EPROM Size	SRAM Size	Page Reg.	Voltage	Turbo Bit	Bus Width	Typical Standby Current	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
14	256Kb	16Kb	—	5V	—	x8	50µA	497-3691-ND	10.70	9.90	7.49	PSD311B-70J
14	256Kb	16Kb	—	5V	—	x8	50µA	497-3692-ND	10.90	10.09	7.63	PSD311B-90JI
18	512Kb	16Kb	Yes	5V	—	x8	50µA	497-3693-ND	12.48	11.55	8.74	PSD312B-70J
18	512Kb	16Kb	Yes	5V	—	x8	50µA	497-3694-ND	12.72	11.77	8.91	PSD312B-90JI
18	1Mb	16Kb	Yes	5V	—	x8	50µA	497-3695-ND	14.38	13.31	10.07	PSD313B-70J
18	1Mb	16Kb	Yes	5V	—	x8	50µA	497-3696-ND	14.64	13.55	10.25	PSD313B-90JI
14	256Kb	16Kb	—	5V	Yes	x8 or x16	10µA	497-3697-ND	12.68	11.73	8.88	ZPSD301B-70J
14	256Kb	16Kb	—	5V	Yes	x8 or x16	10µA	497-3698-ND	12.92	11.96	9.05	ZPSD301B-90JI
18	512Kb	16Kb	Yes	5V	Yes	x8 or x16	10µA	497-3699-ND	14.80	13.69	10.36	ZPSD302B-70J
18	512Kb	16Kb	Yes	5V	Yes	x8 or x16	10µA	497-3700-ND	15.06	13.94	10.55	ZPSD302B-90JI
18	1Mb	16Kb	Yes	5V	Yes	x8 orx16	10µA	497-3701-ND	17.34	16.04	12.14	ZPSD303B-90JI

Microcontrollers

For the mass market ST offers several families of microcontrollers, e.g. the ST62, the ST7 and the ST9 ranges, with the result that there is a ST microcontroller to suit every kind of application, from those where minimum cost is the primary requirement to those that need powerful real-time performance and high-level lang uage support. The recently introduced ST FIVE family integrates all the benefits of microcontrollers, together with a dedicated architecture, the "Decision Processor", oriented to high-level algorithms and a visual programming approach. ST also offers the innovative Programmable System Memory (FlashPSD, DSM) products, which combine memory functions such as Flash, EEPROM and SRAM with programmable logic on a single chip. Designed to interface with all standard microcontrollers to provide a complete system implementation, Programmable System Memories can be quickly and easily programmed without special manufacturing equipment, even in the field.

ST7 8-Bit

Flash (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Clock Frequency (MHz)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
8K	384	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	20-SOIC	497-2135-5-ND	4.64	4.05	3.01	ST7FLITE29F2M6
8K	384	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	20-DIP	497-2134-5-ND	4.64	4.05	3.01	ST7FLITE29F2B6
4K	256	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	20-SOIC	497-2133-5-ND	4.21	3.67	2.73	ST7FLITE19F1M6
4K	256	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	20-DIP	497-2132-5-ND	4.21	3.67	2.73	ST7FLITE19F1B6
8K	384	Yes	15	7-Ch., 10-Bit	2.4 ~ 5.5	16	-40°C ~ 85°C	20-SOIC	497-2131-5-ND	5.27	4.59	3.42	ST7FDALIF2M6
8K / OTP	256	Yes	14	8-Ch., 8-Bit	4.0 ~ 5.5	8	-40°C ~ 85°C	34-SOIC	497-2117-5-ND	7.48	6.83	5.40	ST72T141K2M6
8K / OTP	256	Yes	14	8-Ch., 8-Bit	4.0 ~ 5.5	8	-40°C ~ 85°C	32-DIP	497-2116-5-ND	8.03	7.33	5.80	ST72T141K2B6
16K	512	Yes	19	8-Ch., 8-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	34-SOIC	497-2115-5-ND	6.35	5.53	4.12	ST72F63BK4M1
8K	384	Yes	11	3-Ch., 10-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	20-SOIC	497-2114-5-ND	6.62	5.76	4.29	ST72F623F2M1
8K	384	Yes	23	8-Ch., 10-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	34-SOIC	497-2113-5-ND	5.48	4.78	3.56	ST72F622L2M1
16K	768	Yes	23	8-Ch., 10-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	34-SOIC	497-2112-5-ND	6.92	6.33	5.00	ST72F621L4M1
16K	768	Yes	31	8-Ch., 10-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	44-TQFP	497-2111-ND	8.51	7.77	6.15	ST72F621J4T1
16K	768	Yes	31	8-Ch., 10-Bit	4.0 ~ 5.5	8	0°C ~ 70°C	42-DIP	497-2110-5-ND	8.51	7.77	6.15	ST72F621J4B1
32K	1K	Yes	32	8-Ch., 10-Bit	3.8 ~ 5.5	8	-40°C ~ 85°C	32-TQFP	497-2109-ND	6.37	5.55	4.13	ST72F324K6T6
32K	1K	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	8	-40°C ~ 85°C	44-TQFP	497-2108-ND	5.80	5.30	4.19	ST72F324J6T6
32K	1K	Yes	32	12-Ch., 10-Bit	3.8 ~ 5.5	8	-40°C ~ 85°C	42-DIP	497-2107-5-ND	5.94	5.17	3.85	ST72F324J6B6
8K	256	Yes	22	6-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	28-SOIC	497-2106-5-ND	5.67	4.94	3.68	ST72F264G2M6
4K	256	Yes	22	6-Ch., 10-Bit	2.4 ~ 5.5	8	-40°C ~ 85°C	28-SOIC	497-2105-5-ND	3.92	3.41	2.54	ST72F264G1M6

ST6 8-Bit

Program Memory / Type (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Clock Frequency (MHz)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
3K / OTP	128	Yes	21	13-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	28-SOIC	497-2103-5-ND	4.83	4.21	3.14	ST62T65CM6
3K / OTP	128	Yes	13	7-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	20-SOIC	497-2102-5-ND	4.67	4.07	3.03	ST62T60CM6
4K / OTP	64	Yes	20	16-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	28-SOIC	497-2101-5-ND	5.64	4.92	3.66	ST62T25CM6
4K / OTP	64	Yes	20	16-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	28-DIP	497-2100-5-ND	5.64	4.92	3.66	ST62T25CB6
4K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	20-SOIC	497-2099-5-ND	3.08	2.68	2.00	ST62T20CM6
4K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	20-DIP	497-2098-5-ND	3.08	2.68	2.00	ST62T20CB6
2K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	20-SOIC	497-2097-5-ND	2.97	2.48	2.08	ST62T10CM6
2K / OTP	64	Yes	12	8-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	20-DIP	497-2096-5-ND	2.97	2.48	2.08	ST62T10CB6
2K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	16-SOIC	497-2095-5-ND	2.73	2.28	1.92	ST62T01CM6
2K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	16-DIP	497-2094-5-ND	2.73	2.28	1.92	ST62T01CB6
1K / OTP	64	Yes	9	4-Ch., 8-Bit	3.0 ~ 6.0	8	-40°C ~ 85°C	16-DIP	497-2093-5-ND	2.22	1.85	1.56	ST62T00CB6

(Continued)

ST10 16-Bit

Program Memory / Type (Bytes)	RAM (Bytes)	Timers	Number of I/O Pins	A/D	Operating Supply Voltage	Clock Frequency (MHz)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
Romless	1K	Yes	77	—	3.3	50	-40°C ~ 85°C	100-TQFP	497-2045-ND	8.63	7.88	6.23	ST10R272LT6
Romless	1K	Yes	77	—	3.3	50	-40°C ~ 85°C	100-TQFP	497-2044-ND	8.21	7.50	5.93	ST10R172LT6
Romless	2K	Yes	111	16-Ch., 10-Bit	5.0	25	-40°C ~ 125°C	144-PQFP	497-2043-ND	19.69	16.88	14.97	ST10R167-Q3
Romless	12K	Yes	111	16-Ch., 10-Bit	5.0	40	-40°C ~ 125°C	144-PQFP	497-2042-ND	28.00	24.00	21.28	ST10F269Z2Q3

32-Bit ARM7 Microcontrollers

The STR7 is a range of innovative 32 bit microcontrollers built on the industry standard ARM7 RISC core. The STR7 devices include high quality embedded Flash and feature powerful peripheral functions including USB and CAN. They are ideal for embedded applications requiring a compact yet powerful MCU and a versatile scalable solution. STR7 are used in various applications like user interfaces, factory automation systems, point of sale, appliances and many others. Built on the leading ARM™ architecture, STR7 allows fast response to emerging requirements, enabling the rapid implementation of changes at low cost. The flexibility of the family, with its rich options for Flash, RAM, the largest peripherals set and its versatile package options helps you reuse it for a whole range of products, optimizing your developments. It helps you build cost effective and powerful solutions that bring innovation in your market. ARM core with embedded Flash and RAM.

The STR71xF series is a family of ARM powered 16/32-bit Micro-controllers with embedded Flash and RAM. It contains the high performance ARM7TDMI CPU with an extensive range of peripheral functions and enhanced I/O capabilities. All devices have on-chip high speed single voltage FLASH memory and high speed RAM. The STR71xF family has an embedded ARM core and is therefore compatible with all ARM tools and software. For more information on the ARM Realview Developer Kit for ST and third party development tools, please refer to the www.st.com/mcu

Internal ROM Type	Internal ROM Size	Internal RAM Size	EMI	USB	CAN	I/O Ports	Package	Temperature Range	Digi-Key Part No.	Price Each 1	10	100	STMicroelectronics Part No.
Flash	128K	32K	Yes	Yes	Yes	48	144-TQFP	-40°C~85°C	497-4510-ND	14.50	13.42	10.15	STR710FZ1T6
	256K	64K	Yes	Yes	Yes	48	144-TQFP	-40°C~85°C	497-4511-ND	16.10	14.90	11.27	STR710FZ2T6
	128K	32K	No	Yes	No	30	64-TQFP	-40°C~85°C	497-4512-ND	11.50	10.64	8.05	STR711FR1T6
	256K	64K	No	Yes	No	30	64-TQFP	-40°C~85°C	497-4513-ND	13.10	12.12	9.17	STR711FR2T6
	128K	32K	No	No	Yes	32	64-TQFP	-40°C~85°C	497-4514-ND	10.10	9.35	7.07	STR712FR1T6
	256K	64K	No	No	Yes	32	64-TQFP	-40°C~85°C	497-4515-ND	11.80	10.92	8.26	STR712FR2T6

STR7 Starter Kit

The ARM RealView Developer Kit for STMicroeletronics 2.1 offers a powerful, flexible and affordable solution for development on ST ARM core based microcontrollers. It provides you with complete software and hardware solution for building and debugging your application and programming any STR710 or STR720 microcontrollers. STMicroelectronics partners with ARM to offer the ARM RealView Developer Kit for ST as a complete, cost effective development microcontrollers. The STMicroelectronics new generation of super integrated single chip devices based on ARM code technology. RealView Developer Kit for STMicroelectronics provides a complete environment for the development and debug of ST ARM core based Compiler, GUI debugger and the ST specific RealView ICE Micro Edition (RVICE-ME) JTAG run control device. While the RealView Developer provides the same compiler optimization and debug facilities as the RealView Developer Suite. You can use this kit with your application board, or with any of the evaluation platforms from STMicroelectronics provides for the ARM core based microcontrollers.

System Requirements: • Intel® Pentium® or compatible processor • Windows XP® Professional, or Windows® 2000 Service Pack 2 or later versions.

Software installation and licensing: Upon installation, you must obtain a license file from ARM for your Arm RealView Developer Kit for ST. This is a Windows node locked license, intended for a single user environment on one machine. It is obtained using the serial number found on the cover of your CD-ROM. Only one license is permitted per serial number.

Digi-Key Part No.	Price Each	STMicroelectronics Part No.
497-4517-ND	2080.00	STR7-RVDK

ST7 Programmers

The ST7 EPB series of programming boards is able to program all ST7 microcontrollers with OTP, EPROM, EEPROM or FLASH memories, regardless of the socket type. Certain programming boards also support In-Situ Programming (ISP) or In-Circuit Programming (ICP). These boards are driven by ST programming software: ST7 Visual Programmer (STVP7), which includes all useful functions such as Verify, Blank Check, Read Master and others.

FEATURES:

• ISP/ICP Programming • Handled Formats: *Intel HEX*

• Host Interface: *Parallel Port (LPT)* • Power Supply: *Delivered inside the package* • User Manual

Software: • STVP7 (Free, available on ST CD-ROM and web site)

Devices Supported*	Digi-Key Part No.	Price Each	STMicroelectronics Part No.
ST7LITE0x, ST7LITE2x, ST7226x..........................	497-2896-ND	340.60	ST7MDT10-EPB/US
ST72321(64 pins) ST72521.......	497-2900-ND	353.60	ST7MDT20M-EPB/US
ST7262x...........................	497-2901-ND	468.00	ST7MDTU2-EPB/US
ST7263B	497-2902-ND	520.00	ST7MDTU3-EPB/US

*Socket: All packages except TQFP64 10*10

STR710-EVAL

The STR710-EVAL board is a complete evaluation platform for the STR71x series.

The STR710-EVAL board is a cost effective, flexible and open design to demonstrate the capability of the STR71x series of flash microcontrollers and to enable rapid evaluation of the STR71x devices and available peripherals. It includes the high performance STR710FZ2T6 ARM7TDMITM device that boasts 256 Kbytes embedded flash with best in class random access time, 64 Kbytes on chip high speed SRAM as well as up to 10 serial communication interfaces, including USB and CAN. The STR710-EVAL board includes SRAM and flash memory on the EMI to enable full freedom in development of large programs before custom hardware is designed. It integrates a 2X16 LCD, LED's, UART, CAN, USB interfaces, piezo buzzer and test buttons to create a versatile stand alone test platform. A wide choice of development tool support is readily available, including tools from: STMicroelectronics, ARM, Ashling, Green Hills, Hitex, IAR and PLS.

Main Components: • STR710F Processor running at 48 MHz • EMI SRAM 4 Mbytes (2Mx16) • EMI flash 4 Mbytes (2Mx16) • SPI serial flash • I2C EEPROM • LCD display

Features: • Support for the following interfaces: USB, CAN, RS232, LED displays, Buzzer, Test Buttons and JTAG connector

Digi-Key Part No.	Price Each	STMicroelectronics Part No.
497-4516-ND	778.70	STR710-EVAL

Low Cost Programmer For ST7

ST In-Circuit Communication Kit (STICK) is an ideal introduction to the easy-to-use world of ST7 Flash MCUs. ST7 Flash STICK is low-cost, powerful and easy-to-use. STICK connects your PC to the ST7 Flash MCUs soldered on your application board. It takes advantage of the advanced In-Circuit-Communication (ICC) protocol developed by STMicroelectronics, which allows you to communicate with the ST7 through a limited number of signals.

FEATURES:

• Low cost and easy-to-use kit • In-Circuit Programming (ICP) • ICP support for all ST72Fxxx MCUs except ST72F6xx (USB) • ST7 Visual Programmer graphical user interface

Hardware:

• ICC Interface • Host Interface: *Parallel Port* • HW Compatibility: *ST7 Evaluation Board*

Devices Supported: ST7LITE2x, ST7DALI, ST72264, ST72321, ST72324, ST7521 and ST72561

Digi-Key Part No.	Price Each	STMicroelectronics Part No.
497-2904-ND	93.60	ST7-STICK/US

ST7 Evaluation Boards

ST7FOPTIONS-EVAL:

The Safe ST7 Evaluation Board is intended for starting with the ST72F264 microcontroller and evaluating the features of the ST7 Flash family. The ST72F264 sample installed on-board is programmed with an example software application.

FEATURES: Evaluate ST72F264: • Integrated Low Voltage Detector/Auxiliary Voltage Detector (LVD/AVD) • Safe backup clock (CSS: Clock 0Nested Interrupts **Develop your own application using:** • I/O port connectors • Wire-wrap area • LEDs, 7-segment displays, buzzer • EEPROMs (SPI, I^{2}C) • Trimmers and buttons for reset and interrupts **Standalone Board:** • A 9V battery is provided • Input connecter for external power

Devices Supported: ST72F26x

Contents: • Safe ST7 Evaluation Board • 9V Battery • One ST72F264 MCU programmed with the example software application code • CD-ROMs • User Manual • Selection Guide • Documentation

ST7MDTULS-EVAL:

FEATURES: • Low-speed USB Evaluation Board • Can be used to develop USB Class applications: In-Application Programming (IAP) hardware support Device Firmware Upgrade (DFU) and Human Interface Device (HID) application demonstrator (LEDs, buttons, trimmer) • ST72F61/62/63B MCU Family support • Wrapping area • Windows 98 applet, as well as USB firmware libraries for running the peripheral device

Devices Supported: ST72611, ST7262, ST263B

Contents: • Two ST7 Low-speed USB microcontroller devices: ST72F62 in SDIP42 package and ST72F63B in SDIP32 package • One USB evaluation board • CD-ROMs

ST7MDT20-EVY/US and ST7MDT20-EVC/US:

These boards have been designed to help people begin working with ST7 devices or perform some tests and peripheral evaluation (SPI, I^{2}C, ADC...). They can be used with a device, the emulator or development kit.

FEATURES: • LEDs • Trimmer • ISP connector for Flash devices programming • Reset button • External Interrupt Management • Buzzer • SPI, I^{2}C, EEPROM • CAN communication

Devices Supported: ST72124, ST72311, ST72311Rx, ST72314, ST72321, ST72324, ST72331, ST72334, ST7251x, ST72521 in QFP64

Contents: • MDT20 board • Power Supply • ISP/ICP Connector for Flash devices programming • Exercise manual (with detailed description of the board)

Description	Digi-Key Part No.	Price Each	STMicroelectronics Part No.
Evaluation Board for ST7 Series	497-2895-ND	328.90	ST7FOPTIONS-EVAL
Low-Speed USB Evaluation Board......................	497-2903-ND	133.25	ST7MDTULS-EVAL
Evaluation Board for Training	497-2898-ND	647.40	ST7MDT20-EVY/US
Evaluation Board for Training	497-2897-ND	1267.50	ST7MDT20-EVC/US

Low Cost Starter Kit for STR711F

The KickStart Kit™ is IAR's complete, cost-effective solution for starting application development and evaluating STMicroelectronic's ARM-core based microcontrollers. It comes with all the hardware and software developers need to start developing applications for STR711F devices.

Starter Kit Architecture:

KickStart Development Board: Evaluation board that provides a full range of features (I/Os, ADC, UART, DB9, SPI, I^{2}C, USB...) to help you evaluate and start developing applications for the included STR71xF microcontroller. It is powered from the JLink-KS's USB connection with the host PC.

JLink-KS : USB-to-JTAG hardware interface that integrates fully with IAR Embedded Workbench®, allowing you to download the application to your target and debug it while it runs on your ST ARM-core based microcontroller.

IAR Development Software: A suite of software tools for all phases of application development that includes: • IAR Embedded Workbench® integrated development environment with the KickStart 32KB c/c++ complier to build your application and the C-SPY™ debugger for debugging your application while it runs on your STR71xF microcontroller. • visualSTATE®, 20 state version of IAR's graphical design environment with cc++ code generator for developing application code based on machine states.

497-4550-ND $323.70

DK3300-ELCD Development Kit

The DK3300-ELCD board is a demo board for the uPSD3300 family which is a series of 8051 class microcontrollers (MCUs) that contain a new fast Turbo 8032 core with a large Dual Bank Flash memory, a large SRAM, many peripherals, programmable logic and a JTAG Debug / In System Programming (ISP) port.

The DK3300-ELCD contains all the items needed to explore the Turbo uPSD3300 MCU. Included in the kit are demonstration application examples along with an evaluation copy of the tools needed to develop and compile code for the uPSD3300. The kit also contains the adapters necessary for programming the Flash inside the uPSD and for accessing the built-in JTAG debug port.

497-3750-ND $194.03

DK900 Development Kit

Kit Includes:

• DK900 Evaluation Board with an 8051 MCU • FlashLINK JTAG In-System Programmer (ISP) • Detailed DK900 Manual for the 8051 MCU • Flash PSD sample in PLCC52 • UART and JTAG cables • 110V power supply

Download Software:

• PSDsoft Express • PSDload (version 1.10) - A Windows serial communications program (download self extracting archive load.exe) • DK900 8051 Demo contains demos for 8051 and 8051XA implementations • PSDstep - Serial communications protocol manual (MS Word doc format) • PSDloadman - Serial communications reference document (MS Word doc format)

497-2380-ND $102.96

ST5 and ST7 Development Kits

The easy-to-use inDART series development kits are powerful entry-level tools for ST5 and ST7 based systems. These kits give you the ability to write, compile, download and in-circuit emulate and debug your code. Supports ISP (in-system programming) to program the flash on the target MCU.

Features: • Low cost and easy to use • ISP/ICP programming • USB Interface • In-circuit debug

Kit Includes: • inDART board, Demo board, Starter guide, CodeWarrior, STVD7 (ST Visual Debug) and DataBlaze software

Description	Digi-Key Part No.	Price Each	SofTec Part No.
ST52F Design Kit	520-1018-ND	299.00	INDART-STX/500
ST72F6 Design Kit	520-1019-ND	299.00	INDART-STX/264
ST72F321, F521 Design Kit	520-1020-ND	349.00	INDART-STX/521
ST7FLITE0 Design Kit	520-1021-ND	299.00	INDART-STX/LITE0
ST7FLITE1x, ST7FLITE2x Design Kit	520-1022-ND	299.00	INDART-STX/LITE2
ST72C1xx, 2xx Design Kit	520-1024-ND	249.00	INDART-ST72C254
ST72C3xx Design Kit	520-1025-ND	249.00	INDART-ST72C334

ST5 and ST7 Tools

INDART-STX/D:
• Powerful tool for in-circuit programming/debugging • Large device support • USB interface

Kit Includes: • Development board • CodeWarrior, STVD7 and DataBlaze software • Starter guide

IPL-ST7: • This Dynamic Link Library includes all low-level functions that allow users to set up and perform commands and functions from the DataBlaze user interface within their own windows application

INDART-ST72C/SK: • Low cost solution for writing, compiling, downloading and in-circuit debugging user code • Full speed program execution allows for software and hardware testing in real-time

Kit Includes: • Evaluation board • STVD7 (ST Visual Debug) and DataBlaze software • Starter guide

PK-ST7FLITE2: Entry level tool which allows you to get started with the ST7FLITE2 MCU. **Features:** • Real-time code execution • In-circuit debugging • In-system programming and debugging • Demo area • Prototyping area

Kit Includes: • Evaluation board • USB cable • STVD7, CodeWarrior, and Cosmic C Software • "Quickstart" poster • User's manual

AK-ST7FMC: Demonstrates how effectively the ST7FMC of microcontrollers can be used in real-world motor control applications.

Kit Includes: • Motor control board • BLDC Motor • In-Circuit debugger/programmer • Optoisolation board • Motor cable, power supply cable, USB cable, ISP Cables • "System Software" CD-ROM • "Quickstart" poster • User's manual

Description	Digi-Key Part No.	Price Each	SofTec Part No.
ST5/ST7 In-Circuit Debug Kit	520-1017-ND	249.00	INDART-STX/D
Programming Library for ST7	520-1026-ND	360.00	IPL-ST7
ST72C Starter Kit	520-1023-ND	149.00	INDART-ST72C/SK
ST7FLITE2 Starter Kit	520-1030-ND	99.00	PK-ST7FLITE2
ST7MC Application Kit	520-1031-ND	695.00	AK-ST7FMC

DK3200 Development Kit

Features: • Flexing and Debugging • Keil ISD51 background debugger runs on UART • Easily connect In-Circuit Emulator with no adapter needed • Connect HP logic analyzer cables directly to expansion connectors Reliable 0.15µm NOR Flash Technology

497-2379-ND $156.00

EK3L02AQ Evaluation Board

Helps you in evaluating the LIS3L02AQ MEMS accelerometers in QFN package with the analog output. It implements a typical application composed by the accelerometer and the rail to rail precision buffer TS924. The supply voltage is generated through a LE00AB/C voltage regulator, it manages the correct power supply allowed by the LIS3L02AQ product. All parts on board of the EK3L02AQ evaluation kit are STMicroelectronics components.

497-3588-ND $52.00

EK3L02AS4 Evaluation Board

Helps you in evaluating the LIS3L02AS4 MEMS accelerometers in SO24 package with the analog output. It implements a typical application composed by the accelerometer and the rail to rail precision buffer TS924. The supply voltage is generated through a LE00AB/C voltage regulator, it manages the correct power supply allowed by the LIS3L02AS4 product. All parts on board of the EK3L02AS4 evaluation kit are STMicroelectronics components.

497-3589-ND $52.00

EK3L02DQ Evaluation Board

Helps you in evaluating the LIS3L02DQ MEMS accelerometers in QFN package with the digital output. It implements a typical application enabling user to acquire acceleration data sensed by the LIS3L02DQ product and they are output through the SPI interface embedded into the LIS3L02DQ product.

On the EK3L02DQ board there is also the ST72264 microcontroller which acquires acceleration data at their maximum resolution at a sampling rate of 280Hz. The acceleration data will be then communicated to the external host through an RS232/UART standard interface connection and it is granted by the ST3232 controller integrated on the EK3L02DQ board.

497-4126-ND $91.00

Accelerometers for EK3L02DQ

497-4129-ND	Inertial Sensor: 3Axis - 2g Digital Output Linear Accelerometer	$15.90
497-4127-ND	Inertial Sensor: 3Axis - 2g/6g Linear Accelerometer	$10.93
497-4128-5-ND	Inertial Sensor: 2Axiz - 2g/6g Linear Accelerometer	$19.90

inDART Series and Starter Kits

inDART SERIES: They are a powerful entry-level tool for Freescale Semiconductor, Inc. (Formerly Motorola SPS) MCU-based systems. InDART takes advantage of Metroworks CodeWarrior Integrated Development environment and the ISP (In-System Programming) feature to program the flash memory of the Freescale family of MCU's. InDART provides you with everything you need to download (program), in-circuit emulate and debug end-user code. Full speed program execution allows you to perform hardware and software testing in real-time.

Features: • Low cost and easy to use kits • ISP/ICP programming • USB interface • In-circuit debugging **Kit Includes:** • inDART board and demo board with prototyping area • USB Cable • Software CodeWarrior CD and Softec System CD) • Getting started guide

STARTER KITS: These starter kits are entry-level tools which allow you to get familiar with the different Freescale Semiconductor, Inc. (formerly Motorola SPS) microcontrollers. These kits along with the included CodeWarrior software allow for easy write, compile, download, in-circuit emulation and debug of user code. Includes a prototyping area to develop your own small applications.

Features: • Low cost and easy to use kits • Full-speed program execution for hardware and software testing • In-circuit debug and emulation • Serial interface **Kit Includes:** • Evaluation board with prototyping area • Starter guide • Serial cable

APPLICATION KIT: Integrated system designed to provide the user with a complete, embedded Ethernet application.

Features: • MC9S12NE64 microcontroller • 10/100 BaseT • 8Mbit serial FLASH memory • 4Kbit serial EEPROM • BDM connector for in-circuit debugging • RS-232 connector with transceiver • 8 user LEDs • LAN status LEDs • Speaker • Temperature Sensor • 12VDC Motor with MC33887 H-bridge driver • Prototype area **Kit Includes:** • Evaluation Board • Ethernet core module • AC Adapter • Ethernet cross cable and a serial cable • "System Software" CD-ROM • CodeWarrior CD-ROM • User's Manual

Devices Supported	Digi-Key Part No.	Price Each	SofTec Part No.
HC08			
MC68HC908xx, MC68HLC908xx	520-1000-ND	249.00	INDART-HC08/D
MC68HC908GPxx, MC68HC908GTxx	520-1001-ND	299.00	INDART-HC08/GP
MC68HC908GRxx, MC68HC908GZxx	520-1002-ND	299.00	INDART-HC08/GZ
MC68HC908GZ32, 48, 60	520-1003-ND	299.00	INDART-HC08/GZ64
MC68HC908JKxx	520-1004-ND	299.00	INDART-HC08/JK
MC68HC908JLxx	520-1005-ND	299.00	INDART-HC08/JL
MC68HC908QBxx, MC68HLC908QYxx	520-1006-ND	299.00	INDART-HC08/QY
MC68HC908APxx	520-1007-ND	299.00	INDART-HC08/AP
HCS08			
MC9S08xx	520-1008-ND	249.00	INDART-HCS08/D
MC9S08GB60	520-1009-ND	299.00	INDART-HCS08/GB
MC9S08RG60	520-1029-ND	299.00	INDART-HCS08/RG60
HCS12			
MC9S12xx	520-1010-ND	449.00	INDART-HCS12/D
MC9S12C32	520-1011-ND	499.00	INDART-HCS12/C32
MC9S12DP256	520-1012-ND	499.00	INDART-HCS12/DP256
MC9S12E128	520-1013-ND	499.00	INDART-HCS12/E128
PK Series — Starter Kits			
MC68HC908QY4	520-1028-ND	99.00	PK-HC08QY4
MC9S08GB60	520-1014-ND	99.00	PK-HCS08GB60
MC9S12C32	520-1015-ND	99.00	PK-HCS12C32
MC9S12E128	520-1016-ND	99.00	PK-HCS12E128
Application Kit			
MC9S12NE64	520-1027-ND	449.00	AK-S12NE64-A

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semiconductor

Microcontrollers – 8 and 16 Bit

HC705 Family — 8-Bit

Features: • 68HC05 CPU with the addition of EPROM memory • Fully static design allowing operation down to DC • 8-bit accumulator • 8-bit index register • 16-bit stack pointer • On-chip oscillator • 16-bit timer with built in prescaler, or 15-bit MFT timer • COP watchdog protection • Low power STOP and WAIT modes • Available SPI, SCI or SIOP • Eight addressing modes

RAM (Bytes)	EEPROM (Bytes)	EPROM/ OTP (Bytes)	I/O	A/D	Timer	Serial	PWM	COP	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
64	—	1.2K	10	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40 ~ 85	16-SOIC	MC68HC705KJ1CDW-ND	2.58	1.66	1.50	MC68HC705KJ1CDW
64	—	1.2K	14	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40 ~ 85	20-DIP	MC68HC705J1ACP-ND	3.88	2.49	2.25	MC68HC705J1ACP
64	—	1.2K	14	—	MFT, RTI	—	—	Y	3.3, 5.0	4.0	-40 ~ 85	20-SOIC	MC68HC705J1ACDW-ND	3.88	2.49	2.25	MC68HC705J1ACDW
176	—	4.5K	21	4-Ch., 8-Bit	16-Bit, 1 IC, 1 OC	SIOP	—	Y	3.3, 5.0	2.1	-40 ~ 85	28-DIP	MC68HC705P6ACP-ND	5.78	3.51	3.35	MC68HC705P6ACP
176	—	4.5K	21	4-Ch., 8-Bit	16-Bit, 1 IC, 1 OC	SIOP	—	Y	3.3, 5.0	2.1	-40 ~ 85	28-SOIC	MC68HC705P6ACDW-ND	5.78	3.51	3.35	MC68HC705P6ACDW
192	—	3.75K	32	4-Ch., 8-Bit	8-Bit	—	—	—	3.3, 5.0	2.1	-40 ~ 85	40-DIP	MC68HC705SR3CP-ND	15.80	11.95	11.02	MC68HC705SR3CP
224	—	6.0K	14	4-Ch., 12-Bit	16-Bit	SIOP	—	Y	3.3, 5.0	2.1	-40 ~ 85	20-SOIC	MC68HC705JJ7CDW-ND	6.70	4.07	3.89	MC68HC705JJ7CDW
224	—	6.0K	22	4-Ch., 12-Bit	16-Bit	SIOP	—	Y	3.3, 5.0	2.1	-40 ~ 85	28-SOIC	MC68HC705JP7CDW-ND	5.94	4.25	3.86	MC68HC705JP7CDW
304	—	8.0K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	4.0	-40 ~ 85	40-DIP	MC68HC705C8ACP-ND	10.25	7.00	6.66	MC68HC705C8ACP
304	—	8.0K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	4.0	-40 ~ 85	44-PLCC	MC68HC705C8ACFN-ND	10.25	7.00	6.66	MC68HC705C8ACFN
304	—	8.0K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	4.0	-40 ~ 85	44-QFP	MC68HC705C8ACFB-ND	10.25	7.00	6.66	MC68HC705C8ACFB
352	—	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	2.1	-40 ~ 85	40-DIP	MC68HC705C9ACP-ND	11.59	8.77	8.08	MC68HC705C9ACP
352	—	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	2.1	-40 ~ 85	44-PLCC	MC68HC705C9ACFN-ND	11.59	8.77	8.08	MC68HC705C9ACFN
352	—	16K	31	—	16-Bit, 1 IC, 1 OC	SCI, SPI	—	Y	3.3, 5.0	2.1	-40 ~ 85	44-QFP	MC68HC705C9ACFB-ND	11.59	8.77	8.08	MC68HC705C9ACFB
352	256	15K	32	8-Ch., 8-Bit	16-Bit, 2 IC, 2 OC	SCI	2-Ch., 8-Bit	Y	3.3, 5.0	2.1	-40 ~ 85	52-PLCC	MC68HC705B16NCFN-ND	15.09	11.42	10.52	MC68HC705B16NCFN
528	256	32K	32	8-Ch.	4-Ch.	SCI	2-Ch., 8-Bit	Y	3.3, 5.0	2.1	-40 ~ 85	56-DIP	XC68HC705B32CB-ND	21.17	16.61	15.65	XC68HC705B32CB
528	256	32K	32	8-Ch.	4-Ch.	SCI	2-Ch., 8-Bit	Y	3.3, 5.0	2.1	-40 ~ 85	52-PLCC	XC68HC705B32CFN-ND	21.17	16.61	15.65	XC68HC705B32CFN
304	—	8K + 8K	31	—	2-Ch.	SCI, SPI	—	Y	3.3, 5.0	2.1	-40 ~ 85	42-DIP	MC68HC705C8AB-ND	10.25	7.00	6.66	MC68HC705C8AB
176	—	4.6K	21	4-Ch., 8-Bit	2-Ch.	SIOP	—	Y	3.3, 5.0	2.1	-40 ~ 85	28-SOIC	MC68HC705P6AMDW-ND	5.37	3.84	3.49	MC68HC705P6AMDW
64	—	1.2K	10	—	2-Ch., 16-Bit	—	—	Y	3.3, 5.0	2.1	-40 ~ 85	16-DIP	MC68HRC705KJ1CP-ND	2.55	1.64	1.48	MC68HRC705KJ1CP

HC711 Family — 8-Bit

Features: • 68HC11 CPU with the addition of EPROM memory • Fully static design allowing operation down to DC • Two 8-bit accumulators • Two 16-bit index registers • 16-bit stack pointer • 16-bit timer with built in prescaler • COP watchdog protection • Low power STOP and WAIT modes • SPI, SCI • Six addressing modes (immediate, direct, extended, indexed, inherent, and relative) • 16/16 integer and fractional divides • 8 x 8 multiply

RAM (Bytes)	EEPROM (Bytes)	EPROM/OTP (Bytes)	Timer	I/O	A/D	Operating Volt. (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
192	—	4K	16-Bit, RTI	32	—	5.0	2.0	-40 ~ 85	44-PLCC	MC68HC711D3CFN2-ND	10.95	8.29	7.64	MC68HC711D3CFN2
786	512	20K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	3.0	-40 ~ 85	52-PLCC	MC68HC711E20CFN3-ND	25.53	20.03	18.86	MC68HC711E20CFN3
512	512	12K	8-Ch., 16 Bit	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC68S711E9CFN2-ND	18.36	13.89	12.81	MC68S711E9CFN2
512	512	12K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	3.0	-40 ~ 85	52-PLCC	MC68HC711E9CFN3-ND	17.87	14.02	13.21	MC68HC711E9CFN3
768	512	20K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC68HC711E20CFN2-ND	24.32	19.08	17.97	MC68HC711E20CFN2
512	512	12K	16-Bit, RTI	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC68HC711E9CFN2-ND	18.54	14.02	12.93	MC68HC711E9CFN2
768	640	24K	16-Bit, RTI	62	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	80-QFP	MC68HC711K4CFU4-ND	30.61	24.01	22.62	MC68HC711K4CFU4
768	512	20K	8-Ch., 16 Bit	38	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	52-PLCC	MC68HC711E20CFN4-ND	26.76	20.99	19.77	MC68HC711E20CFN4
512	512	12K	8-Ch., 16 Bit	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	64-QFP	MC68HC711E9CFU2-ND	18.54	14.02	12.93	MC68HC711E9CFU2
512	512	24K	8-Ch., 16 Bit	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC68HC711E9VFN2-ND	17.87	14.02	13.21	MC68HC711E9VFN2
768	640	24K	8-Ch., 16 Bit	62	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	84-PLCC	MC68HC711K4CFN4-ND	30.61	24.01	22.62	MC68HC711K4CFN4
1K	640	32K	8-Ch., 16 Bit	62	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	84-PLCC	MC68HC711P2CFN4-ND	44.39	36.97	34.78	MC68HC711P2CFN4

HC11 Family — 8-Bit

Features: • Fully static design allowing operation down to DC • Two 8-bit accumulators • Two 16-bit index registers • 16-bit stack pointer • 16-bit timer with built in prescaler • COP watchdog protection • Low power STOP and WAIT modes • SPI, SCI • Six addressing modes (immediate, direct, extended, indexed, inherent, and relative) • 16/16 integer and fractional divides • 8 x 8 multiply

RAM (Bytes)	EEPROM (Bytes)	PWM	Timer	I/O	A/D	Operating Volt. (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
512	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	3.0	-40 ~ 85	52-PLCC	MC68HC11E1CFN3-ND	11.93	8.93	8.34	MC68HC11E1CFN3
	—	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC68HC11E0CFN2-ND	11.05	8.36	7.71	MC68HC11E0CFN2
	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC68HC11E1CFN2-ND	11.41	8.63	7.96	MC68HC11E1CFN2
	512	—	16-Bit, RTI, PWM	38	8-Ch., 8-Bit	5.0	2.0	-40 ~ 85	52-PLCC	MC68HC11E1CFN2TR-ND	3504.15/450			MC68HC11E1CFN2R2
768	640	4-Ch., 8-Bit or 2-Ch., 16-Bit	16-Bit, RTI, PWM	37	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	84-PLCC	MC68HC11K1CFN4-ND	18.73	14.69	13.84	MC68HC11K1CFN4
1K	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	2.0	-40 ~ 85	68-PLCC	MC68HC11F1CFN2-ND	12.58	9.52	8.78	MC68HC11F1CFN2
	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	3.0	-40 ~ 85	68-PLCC	MC68HC11F1CFN3-ND	18.69	14.67	13.82	MC68HC11F1CFN3
	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	3.0	-40 ~ 85	68-PLCC	MC68HC11F1CFN3TR-ND	2343.00/250			MC68HC11F1CFN3R2
	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	4.0	-40 ~ 85	68-PLCC	MC68HC11F1CFN4-ND	13.83	10.46	9.64	MC68HC11F1CFN4
	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	—	5.0	4.0	-40 ~ 85	80-LQFP	MC68HC11F1CPU4-ND	13.83	10.46	9.64	MC68HC11F1CPU4
	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	68-PLCC	MC68HC11F1CFN4RCT-ND	16.05	11.47	10.42	MC68HC11F1CFN4R2
	512	8-Ch., 8-Bit	16-Bit, RTI, PWM	30	8-Ch., 8-Bit	5.0	4.0	-40 ~ 85	68-PLCC	MC68HC11F1CFN4RTR-ND	2453.25/250			MC68HC11F1CFN4R2

M68HC908 Family — 8-Bit

The MC68HC08 Family is a low cost, high performance, Complex Instruction Set Computer (CISC) with a Von Neumann architecture. **Features:** • Enhanced HC05 Programming Model • Extensive loop control functions • 16 Addressing modes • 16-bit Index Register and Stack Pointer • Memory to memory data transfers • Object-code compatible with Freescale's 68HC05 architecture for easy migration • Designed to allow efficient, compact modular coding in assembly or C with full 16-bit Stack Pointer and stack relative addressing • Efficient instruction set with multiply and divide that is easy to learn and use **Memory:** • In-application, In-circuit Re-Programmable Flash Memory (1.5K to 4K Bytes) • 128 Bytes of random access memory (RAM) **Peripherals:** • Two-Channel, 16-bit Timer with selectable input capture, output compare or pulse width modulation (PWM) • Internal Clock Oscillator reduces board space and system costs by eliminating external components • Flexible I/O allows direct drive of LED and other circuits to eliminate external drivers and help reduce system costs • System Protection features, including Watchdog Timer and On-chip Low Voltage Detect/Reset to help reduce cost and increase reliability **68HC908QT4 Demonstration Board (M68DEMO908QT4)**
This demo board enables you to use the included CodeWarrior Development Studio Special Edition to modify demo code or develop new code using ASM or C, then program the Flash, and debug in real time all with no additional hardware.
Features: • Battery-Powered 8-pin QT4 Device • LEDs for user feedback • Potentiometer for A/D Input • Push Buttons for user Input • Access to all I/O for user-provided prototyping • Software demo with application code utilizing the A/D, timers, and I/O

RAM (Bytes)	Flash (Bytes)	Timer	I/O	A/D	Operating Voltage (V)	Maximum Bus Frequency @5.0V (MHz)	Temperature (°C)	Package*	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
128	1.5K	2-Ch., 16-Bit	5	—	3.0 ~ 5.0	8	-40 ~ 85	8-DIP	MC68HC908QT1CPE-ND◊ ***NEW!***	2.02	1.23	1.07	MC68HC908QT1CPE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.6	8	-40 ~ 85	8-DIP	MCHLC908QT1CPE-ND◊ ***NEW!***	2.02	1.23	1.07	MCHLC908QT1CPE
	1.5K	2-Ch., 16-Bit	5	—	3.0 ~ 5.0	8	-40 ~ 105	8-DIP	MC68HC908QT1VPE-ND◊ ***NEW!***	2.14	1.30	1.13	MC68HC908QT1VPE
	1.5K	2-Ch., 16-Bit	5	—	3.0 ~ 5.0	8	-40 ~ 85	8-SOIC	MC68HC908QT1CDW-ND	2.02	1.23	1.07	MC68HC908QT1CDW
	1.5K	2-Ch., 16-Bit	5	—	3.0 ~ 5.0	8	-40 ~ 85	8-SOIC	MCHC908QT1CDWE-ND◊ ***NEW!***	2.02	1.23	1.07	MCHC908QT1CDWE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	5.0	8	-40 ~ 125	8-SOIC	MCHC908QT1MDWE-ND◊ ***NEW!***	2.22	1.36	1.17	MCHC908QT1MDWE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 105	8-SOIC	MCHC908QT1VDWE-ND◊ ***NEW!***	2.14	1.30	1.13	MCHC908QT1VDWE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	8-DIP	MC68HC908QT2CP-ND	2.43	1.48	1.28	MC68HC908QT2CP
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	8-DIP	MC68HC908QT2CPE-ND◊ ***NEW!***	2.43	1.48	1.28	MC68HC908QT2CPE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.6	8	-40 ~ 85	8-DIP	MCHLC908QT2CPE-ND◊ ***NEW!***	2.43	1.48	1.28	MCHLC908QT2CPE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 125	8-DIP	MC68HC908QT2MPE-ND◊ ***NEW!***	2.66	1.62	1.40	MC68HC908QT2MPE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	8-SOIC	MC68HC908QT2CDW-ND	2.43	1.48	1.28	MC68HC908QT2CDW
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	8-SOIC	MCHC908QT2CDWE-ND◊ ***NEW!***	2.43	1.48	1.28	MCHC908QT2CDWE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	5.0	8	-40 ~ 125	8-SOIC	MCHC908QT2MDWE-ND◊ ***NEW!***	2.66	1.62	1.40	MCHC908QT2MDWE
	1.5K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	5.0	8	-40 ~ 105	8-SOIC	MCHC908QT2VDWE-ND◊ ***NEW!***	2.54	1.55	1.34	MCHC908QT2VDWE
	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	8-DIP	MC68HC908QT4CP-ND	2.86	1.74	1.51	MC68HC908QT4CP
	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	8-DIP	MC68HC908QT4CPE-ND◊ ***NEW!***	2.86	1.74	1.51	MC68HC908QT4CPE
	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.6	8	-40 ~ 85	8-DIP	MCHLC908QT4CPE-ND◊ ***NEW!***	2.86	1.74	1.51	MCHLC908QT4CPE

* 8-Pin packages have 5 I/O and 16-Pin have 13 I/O ◊ ***RoHS Compliant***

(Continued)

M68HC908 Family — 8-Bit *(Cont.)*

RAM (Bytes)	Flash (Bytes)	Timer	I/O	A/D	Operating Voltage (V)	Maximum Bus Frequency @5.0V (MHz)	Temperature (°C)	Package*	Digi-Key Part No.	Price Each			Freescale Part No.
										1	25	100	
128	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	8-SOIC	MC68HC908QT4CDW-ND	2.86	1.74	1.51	MC68HC908QT4CDW
	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	8-SOIC	MCHC908QT4CDWE-ND◊ ***NEW!***	2.86	1.74	1.51	MCHC908QT4CDWE
	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	5.0	8	-40 ~ 125	8-SOIC	MCHC908QT4MDWE-ND◊ ***NEW!***	3.15	1.92	1.66	MCHC908QT4MDWE
	4K	2-Ch., 16-Bit	5	4-Ch., 8-Bit	5.0	8	-40 ~ 105	8-SOIC	MCHC908QT4VDWE-ND◊ ***NEW!***	3.00	1.83	1.58	MCHC908QT4VDWE
	1. 5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8	-40 ~ 85	16-DIP	MC68HC908QY1CPE-ND◊ ***NEW!***	2.28	1.39	1.20	MC68HC908QY1CPE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8	-40 ~ 85	16-DIP	MCHLC908QY1CPE-ND◊ ***NEW!***	2.28	1.39	1.20	MCHLC908QY1CPE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8	-40 ~ 85	16-DIP	MCHLC908QY1PE-ND◊ ***NEW!***	2.28	1.39	1.20	MCHLC908QY1PE
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8	-40 ~ 105	16-DIP	MC68HC908QY1VPE-ND◊ ***NEW!***	2.40	1.46	1.26	MC68HC908QY1VPE
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8	-40 ~ 85	16-SOIC	MC68HC908QY1CDW-ND	2.28	1.39	1.20	MC68HC908QY1CDW
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8	-40 ~ 85	16-SOIC	MCHC908QY1CDWE-ND◊ ***NEW!***	2.28	1.39	1.20	MCHC908QY1CDWE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8	-40 ~ 125	16-SOIC	MCHC908QY1MDWE-ND◊ ***NEW!***	2.51	1.53	1.32	MCHC908QY1MDWE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8	-40 ~ 105	16-SOIC	MCHC908QY1VDWE-ND◊ ***NEW!***	2.40	1.46	1.26	MCHC908QY1VDWE
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8	-40 ~ 85	16-TSSOP	MC68HC908QY1CDT-ND	2.54	1.55	1.34	MC68HC908QY1CDT
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8	-40 ~ 85	16-TSSOP	MC68HC908QY1CDTE-ND◊ ***NEW!***	2.54	1.55	1.34	MC68HC908QY1CDTE
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8	-40 ~ 125	16-TSSOP	MC68HC908QY1MDTE-ND◊ ***NEW!***	2.80	1.71	1.48	MC68HC908QY1MDTE
	1.5K	2-Ch., 16-Bit	13	—	3.0 ~ 5.0	8	-40 ~ 105	16-TSSOP	MC68HC908QY1VDTE-ND◊ ***NEW!***	2.66	1.62	1.40	MC68HC908QY1VDTE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-DIP	MC68HC908QY2CP-ND	2.69	1.64	1.41	MC68HC908QY2CP
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-DIP	MC68HC908QY2CPE-ND◊ ***NEW!***	2.69	1.64	1.41	MC68HC908QY2CPE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.6	8	-40 ~ 85	16-DIP	MCHLC908QY2CPE-ND◊ ***NEW!***	2.69	1.64	1.41	MCHLC908QY2CPE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 125	16-DIP	MC68HC908QY2MPE-ND◊ ***NEW!***	2.95	1.80	1.55	MC68HC908QY2MPE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 105	16-DIP	MC68HC908QY2VPE-ND◊ ***NEW!***	2.83	1.73	1.49	MC68HC908QY2VPE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-SOIC	MC68HC908QY2CDW-ND	2.69	1.64	1.41	MC68HC908QY2CDW
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-SOIC	MCHC908QY2CDWE-ND◊ ***NEW!***	2.69	1.64	1.41	MCHC908QY2CDWE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8	-40 ~ 125	16-SOIC	MCHC908QY2MDWE-ND◊ ***NEW!***	2.95	1.80	1.55	MCHC908QY2MDWE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-TSSOP	MC68HC908QY2CDT-ND	2.86	1.74	1.51	MC68HC908QY2CDT
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-TSSOP	MC68HC908QY2CDTE-ND◊ ***NEW!***	2.86	1.74	1.51	MC68HC908QY2CDTE
	1.5K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 125	16-TSSOP	MC68HC908QY2MDTE-ND◊ ***NEW!***	3.15	1.92	1.66	MC68HC908QY2MDTE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-DIP	MC68HC908QY4CP-ND	3.03	1.94	1.76	MC68HC908QY4CP
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-DIP	MC68HC908QY4CPE-ND◊ ***NEW!***	3.49	2.13	1.84	MC68HC908QY4CPE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8	-40 ~ 85	16-DIP	MCHLC908QY4CPE-ND◊ ***NEW!***	3.49	2.13	1.84	MCHLC908QY4CPE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 125	16-DIP	MC68HC908QY4MPE-ND◊ ***NEW!***	3.84	2.34	2.02	MC68HC908QY4MPE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 105	16-DIP	MC68HC908QY4VPE-ND◊ ***NEW!***	3.67	2.24	1.93	MC68HC908QY4VPE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-SOIC	MCHC908QY4CDWE-ND◊ ***NEW!***	3.49	2.13	1.84	MCHC908QY4CDWE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8	-40 ~ 125	16-SOIC	MCHC908QY4MDWE-ND◊ ***NEW!***	3.84	2.34	2.02	MCHC908QY4MDWE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	5.0	8	-40 ~ 105	16-SOIC	MCHC908QY4VDWE-ND◊ ***NEW!***	3.67	2.24	1.93	MCHC908QY4VDWE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-TSSOP	MC68HC908QY4CDTE-ND◊ ***NEW!***	3.84	2.34	2.02	MC68HC908QY4CDTE
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	2.2, 3.6	2.0	0 ~ 70	32-LQFP	MC908QF4FJ-ND	5.48	3.32	3.18	MC908QF4FJ
	4K	2-Ch., 16-Bit	13	4-Ch., 8-Bit	2.2, 3.6	2.0	-40 ~ 85	32-LQFP	MC908QF4CFJ-ND	5.73	3.48	3.32	MC908QF4CFJ
	4K	2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.3 ~ 5.0	8	-40 ~ 125	16-SOIC	MC908QL4MDW-ND	5.48	3.32	3.18	MC908QL4MDW
	4K	2-Ch., 16-Bit	13	6-Ch., 10-Bit	3.3 ~ 5.0	8	-40 ~ 125	16-TSSOP	MC908QL4MDT-ND	5.75	3.49	3.34	MC908QL4MDT
	4K	2-Ch., 16-Bit	14	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-TSSOP	MC68HC908QY4MDTE-ND◊ ***NEW!***	3.65	2.35	2.12	MC68HC908QY4MDTE
	4K	2-Ch., 16-Bit	14	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-TSSOP	MC68HC908QY4VDT-ND	3.50	2.25	2.03	MC68HC908QY4VDT
	4K	2-Ch., 16-Bit	14	4-Ch., 8-Bit	3.0 ~ 5.0	8	-40 ~ 85	16-TSSOP	MC68HC908QY4VDTE-ND◊ ***NEW!***	4.04	2.46	2.13	MC68HC908QY4VDTE
Accessories													
Demo Board for 908Q MCU 68HC08 Series									M68DEMO908QT4-ND	28.26	26.57	25.50	M68DEMO908QT4
Evaluation Board for MC908QL4									M68EVB908QL4-ND	245.00	212.52	203.04	M68EVB908QL4
Evaluation Board for 908QF4									SCEB08QF4-ND	96.65	82.75	78.23	SCEB08QF4

* 8-Pin packages have 5 I/O and 16-Pin have 13 I/O ◊ ***RoHS Compliant***

HC908 Family — 8-Bit

Features: • 68HC08 CPU with Flash memory • Fully upward code compatible with the 68HC05 family for easy migration • Fully static design allowing operation down to DC • 16-bit index register • 16-bit stack pointer • 2, 4 or 6 channel 16-bit timers with built in prescalers • COP watchdog protection • Low-power STOP and WAIT modes • Available USB, SPI, SCI and CAN2 • Available A/D converter • 16 addressing modes • LVI (Low Voltage Inhibit) supply voltage monitor • 16/8 divide • 8 x 8 multiply • 68HC908AZ additional feature: MSCAN (Motorola Scalable Controller Area Network) interface conforms to CAN 2.0B

FLASH (Bytes)	RAM (Bytes)	EEPROM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	PWM	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
													1	25	100	
1.5K	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	20-SOIC	MC68HC908JK1ECDW-ND	3.13	2.01	1.81	MC68HC908JK1ECDW
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	20-SOIC	MC908JK1ECDWE-ND◊ ***NEW!***	3.61	2.20	1.90	MC908JK1ECDWE
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	20-SOIC	MC908JK1EMDWE-ND◊ ***NEW!***	3.45	2.22	2.00	MC908JK1EMDWE
2K	128	—	12	—	2-Ch.	—	See Timer	2.0	4.0	-40 ~ 85	32-LQFP	MC68HC908RF2MFA-ND	6.88	4.92	4.47	MC68HC908RF2MFA
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	16-SOIC	MC908KX2CDWE-ND◊ ***NEW!***	4.88	3.13	2.83	MC908KX2CDWE
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	16-SOIC	MC908KX2MDWE-ND◊ ***NEW!***	5.38	3.26	3.12	MC908KX2MDWE
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 105	16-SOIC	MC908KX2VDWE-ND◊ ***NEW!***	5.13	3.11	2.97	MC908KX2VDWE
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	16-DIP	MC908KX2CPE-ND◊ ***NEW!***	4.88	3.13	2.83	MC908KX2CPE
4K	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	20-SOIC	MC908JK3ECDWE-ND◊ ***NEW!***	4.13	2.65	2.39	MC908JK3ECDWE
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	5.0	8.0	-40 ~ 85	20-DIP	MCHC908JK3ECPE-ND◊ ***NEW!***	4.13	2.65	2.39	MCHC908JK3ECPE
	128	—	15	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	28-DIP	MC68HRC908JK3CP-ND	4.13	2.65	2.39	MC68HRC908JK3CP
	384	—	21	6-Ch., 8-Bit	3-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.2	-40 ~ 85	32-LQFP	MC68HC908GR4CFA-ND	5.63	3.42	3.26	MC68HC908GR4CFA
	384	—	21	6-Ch., 8-Bit	3-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.2	-40 ~ 85	32-LQFP	MC68HC908GR4CFAE-ND◊ ***NEW!***	5.63	3.42	3.26	MC68HC908GR4CFAE
	384	—	21	6-Ch., 8-Bit	3-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC908GR4CDWE-ND◊ ***NEW!***	5.63	3.42	3.26	MC908GR4CDWE
	128	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0	8.0	-40 ~ 85	28-DIP	MC68HC908JL3ECP-ND	5.25	3.37	3.05	MC68HC908JL3ECP
	128	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0	8.0	-40 ~ 85	28-DIP	MC908JL3ECPE-ND◊ ***NEW!***	5.25	3.37	3.05	MC908JL3ECPE
	128	—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	28-SOIC	MC68HC908JL3ECDW-ND	5.25	3.19	3.05	MC68HC908JL3ECDW
	128	—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	48-LQFP	MC908JL3ECFAE-ND◊ ***NEW!***	5.63	3.42	3.26	MC908JL3ECFAE
	256	—	26	—	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC908KK3ECDWE-ND◊ ***NEW!***	3.30	2.12	1.92	MC908KK3ECDWE
	256	—	26	—	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	28-DIP	MC908KK3ECPE-ND◊ ***NEW!***	3.30	2.12	1.92	MC908KK3ECPE
	256	—	26	12-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	28-SOIC	MC908KL3ECDWE-ND◊ ***NEW!***	4.20	2.70	2.44	MC908KL3ECDWE
7.5	384	—	21	8-Ch., 8-Bit	2-Ch. + 1-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	32-LQFP	MC68HC908GR8CFA-ND	7.01	5.01	4.55	MC68HC908GR8CFA
	384	—	21	8-Ch., 8-Bit	2-Ch. + 1-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	32-LQFP	MCHC908GR8CFAE-ND◊ ***NEW!***	7.01	5.01	4.55	MCHC908GR8CFAE
8K	128	—	18	7-Ch., 8-Bit	2-Ch.	—	See Timer	5.0	8.0	-40 ~ 85	20-SOIC	MC68HC908LB8CDWE-ND◊	6.13	3.72	3.55	MC68HC908LB8CDWE
	128	—	18	7-Ch., 8-Bit	2-Ch.	—	See Timer	5.0	8.0	-40 ~ 85	20-DIP	MC68HC908LB8CPE-ND◊	6.13	3.72	3.55	MC68HC908LB8CPE
	128	—	18	7-Ch., 8-Bit	2-Ch.	—	See Timer	5.0	8.0	-40 ~ 125	20-SOIC	MC68HC908LB8MDWE-ND◊	5.73	4.10	3.73	MC68HC908LB8MDWE
	128	—	18	7-Ch., 8-Bit	2-Ch.	—	See Timer	5.0	8.0	-40 ~ 125	20-DIP	MC68HC908LB8MPE-ND◊	5.73	4.10	3.73	MC68HC908LB8MPE
	1K	—	30	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	42-DIP	MC68HC908AP8CB-ND	5.31	3.79	3.45	MC68HC908AP8CB
	1K	—	32	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	44-QFP	MC908AP8CFBE-ND◊ ***NEW!***	5.31	3.79	3.45	MC908AP8CFBE-ND
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	16-SOIC	MC68HC908KX8CDW-ND	5.66	4.01	3.71	MC68HC908KX8CDW
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	16-SOIC	MC908KX8CDWE-ND◊ ***NEW!***	5.73	4.10	3.73	MC908KX8CDWE
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	5.0	8.0	-40 ~ 125	16-SOIC	MC908KX8MDWE-ND◊ ***NEW!***	6.37	4.55	4.14	MC908KX8MDWE
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	16-DIP	MC68HC908KX8CP-ND	5.66	4.01	3.71	MC68HC908KX8CP
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	16-DIP	MC908KX8CPE-ND◊ ***NEW!***	5.73	4.10	3.73	MC908KX8CPE
	192	—	13	4-Ch., 8-Bit	2-Ch.	SCI	See Timer	5.0	8.0	-40 ~ 105	16-DIP	MC908KX8VPE-ND◊ ***NEW!***	6.03	4.31	3.92	MC908KX8VPE
	256	—	21	—	2-Ch.	USB1.1	See Timer	5.0	3.0	-40 ~ 85	28-SOIC	MC68HC908JB8ADW-ND	3.12	2.21	2.04	MC68HC908JB8ADW
	256	—	21	—	2-Ch.	USB1.1	See Timer	5.0	3.0	-40 ~ 85	28-SOIC	MC908JB8ADWE-ND◊ ***NEW!***	3.70	2.38	2.15	MC908JB8ADWE
	256	—	37	—	2-Ch.	USB1.1	See Timer	5.0	3.0	-40 ~ 85	44-QFP	MC908JB8FBE-ND◊ ***NEW!***	4.28	2.75	2.48	MC908JB8FBE
	256	—	13	—	1-Ch.	USB1.1	See Timer	5.0	3.0	-40 ~ 85	20-SOIC	MC68HC908JB8JDW-ND	3.12	2.23	2.03	MC68HC908JB8JDW
	256	—	13	—	1-Ch.	USB1.1	See Timer	5.0	3.0	-40 ~ 85	20-SOIC	MC908JB8JDWE-ND◊ ***NEW!***	4.25	2.59	2.23	MC908JB8JDWE

◊ ***RoHS Compliant***

(Continued)

Microcontrollers – 8 and 16 Bit *(Cont.)*

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	EEPROM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	PWM	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.		Price Each		Freescale Part No.
													1	25	100	
8K	256	—	37	—	2-Ch.	USB1.1	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	20-DIP	MC68HC908JB8JPE-ND◊ ***NEW!***	3.78	2.43	2.19	MC68HC908JB8JPE
	256	—	15	10-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	20-SOIC	MC68HC908JK8CDW-ND	5.84	4.17	3.79	MC68HC908JK8CDW
	256	—	15	10-Ch., 8-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	20-SOIC	MC908JK8CDWE-ND◊ ***NEW!***	6.88	4.41	3.99	MC908JK8CDWE
	256	—	15	10-Ch., 8-Bit	2-Ch.	SCI	16	3.0	8.0	-40 ~ 85	28-DIP	MCHC908JK8CPE-ND◊ ***NEW!***	6.88	4.41	3.99	MCHC908JK8CPE
	256	—	15	10-Ch., 8-Bit	2-Ch.	SCI	16	3.0	8.0	-40 ~ 125	20-DIP	MCHC908JK8MPE-ND◊ ***NEW!***	6.43	4.60	4.18	MCHC908JK8MPE
	256	—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	28-SOIC	MC908JL8CDWE-ND◊ ***NEW!***	7.38	4.73	4.28	MC908JL8CDWE
	256	—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	48-LQFP	MC68HC908JL8CFA-ND	6.86	4.90	4.46	MC68HC908JL8CFA
	256	—	23	10-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	48-LQFP	MC68HC908JL8CFAE-ND◊ ***NEW!***	8.08	5.18	4.68	MC68HC908JL8CFAE
	256	—	26	13-Ch., 8-Bit	2-Ch.	SCI	16	3.0 ~ 5.0	8.0	-40 ~ 125	32-LQFP	MC68HC908JL8MFAE-ND◊ ***NEW!***	7.54	5.39	4.90	MC68HC908JL8MFAE
	256	—	26	—	2-Ch.	SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908EY8CFAE-ND◊ ***NEW!***	5.31	3.79	3.45	MC908EY8CFAE
	256	—	26	—	2-Ch.	SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	32-LQFP	MC908EY8MFAE-ND◊ ***NEW!***	5.84	4.17	3.79	MC908EY8MFAE
	256	—	26	—	2-Ch.	SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 105	32-LQFP	MC908EY8VFAE-ND◊ ***NEW!***	5.58	3.99	3.63	MC908EY8VFAE
	256	—	12	7-Ch., 10-Bit	Dual 2-Ch.	SCI	6-Ch., 12-Bit	5.0	8.0	-40 ~ 85	28-SOIC	MC68HC908MR8CDW-ND	7.64	5.46	4.97	MC68HC908MR8CDW
	256	—	16	7-Ch., 10-Bit	2-Ch.	SCI	See Timer	5.0	8.0	-40 ~ 125	28-SOIC	MC908MR8MDWE-ND◊ ***NEW!***	8.41	6.01	5.46	MC908MR8MDWE
	256	—	16	7-Ch., 10-Bit	2-Ch.	SCI	12	5.0	8.0	-40 ~ 85	32-LQFP	MCHC908MR8CFAE-ND◊ ***NEW!***	7.64	5.46	4.97	MCHC908MR8CFAE
	256	—	16	7-Ch., 10-Bit	2-Ch.	SCI	12	5.0	8.0	-40 ~ 125	32-LQFP	MCHC908MR8MFAE-ND◊ ***NEW!***	8.41	6.01	5.46	MCHC908MR8MFAE
	256	—	16	7-Ch., 10-Bit	2-Ch.	SCI	12	5.0	8.0	-40 ~ 105	32-LQFP	MCHC908MR8VFAE-ND◊ ***NEW!***	8.02	5.74	5.21	MCHC908MR8VFAE
	256	—	12	7-Ch., 10-Bit	Dual 2-Ch.	SCI	6-Ch., 12-Bit	5.0	8.0	-40 ~ 85	28-DIP	MC68HC908MR8CP-ND	7.64	5.46	4.97	MC68HC908MR8CP
	256	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	28-DIP	MC68HC908JL8CP-ND	6.26	4.48	4.07	MC68HC908JL8CP
	256	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	28-DIP	MC908JL8CPE-ND◊ ***NEW!***	7.38	4.73	4.28	MC908JL8CPE
	256	—	26	—	2-Ch.	SCI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	28-DIP	MC908JL8MPE-ND◊ ***NEW!***	6.90	4.93	4.48	MC908JL8MPE
	256	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	32-DIP	MC68HC908JL8CSP-ND	6.90	4.93	4.48	MC68HC908JL8CSP
	256	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0, 5.0	8.0	-40 ~ 85	32-DIP	MC68HC908JL8CSPE-ND◊ ***NEW!***	8.13	5.21	4.71	MC68HC908JL8CSPE
	384	—	21	8-Ch., 8-Bit	2-Ch. + 1-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	28-SOIC	MC908GR8CDWE-ND◊ ***NEW!***	7.01	5.01	4.55	MC908GR8CDWE
	384	—	21	6-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	28-DIP	MC908GR8CPE-ND◊ ***NEW!***	7.01	5.01	4.55	MC908GR8CPE
	384	—	21	6-Ch., 8-Bit	2-Ch.	SCI, SPI	—	5.0	8.0	-40 ~ 85	32-LQFP	MCHC908GR8ACFAE-ND◊ ***NEW!***	7.01	5.01	4.55	MCHC908GR8ACFAE
	384	—	21	6-Ch., 8-Bit	2-Ch.	SCI, SPI	—	5.0	8.0	-40 ~ 85	32-LQFP	MCHC908GR8AVFAE-ND◊ ***NEW!***	7.37	5.27	4.79	MCHC908GR8AVFAE
	512	—	36	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	44-QFP	MC68HC908GT8CFB-ND	7.41	5.26	4.55	MC68HC908GT8CFB
	512	—	36	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	44-QFP	MC908GT8CFBE-ND◊ ***NEW!***	8.75	5.62	5.07	MC908GT8CFBE
	512	—	34	8-Ch., 8-Bit	2-Ch.	ESCI, SPI	See Timer	5.0	8.0	-40 ~ 85	42-DIP	MC68HC908GT8CB-ND	7.43	5.31	4.83	MC68HC908GT8CB
	1K	—	37	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI, CAN2	See Timer	5.0	8.0	-40 ~ 85	48-LQFP	MC68HC908GZ8CFA-ND	7.64	5.46	4.97	MC68HC908GZ8CFA
	1K	—	37	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI, CAN2	See Timer	5.0	8.0	-40 ~ 85	48-LQFP	MC68908GZ8CFAE-ND◊ ***NEW!***	7.64	5.46	4.97	MC68908GZ8CFAE
	1K	—	37	8-Ch., 10-Bit	2-Ch.	SPI, CAN2	—	5.5	8.0	-40 ~ 85	32-LQFP	MC68908GZ8CFJE-ND◊ ***NEW!***	7.64	5.46	4.97	MC68908GZ8CFJE
	2K	—	39	6-Ch., 8-Bit	2-Ch.	USB, IIC	See Timer	3.3	6.0	-40 ~ 85	64-QFP	MC908LD64IFUE-ND◊ ***NEW!***	10.05	7.61	7.01	MC908LD64IFUE
12K	384	—	21	—	2-Ch.	USB, SCI	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	28-SOIC	MC908JB12DWE-ND◊ ***NEW!***	4.13	2.65	2.39	MC908JB12DWE
	384	—	21	—	2-Ch.	USB, SCI	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	20-SOIC	MC908JB12JDWE-ND◊ ***NEW!***	4.55	2.92	2.64	MC908JB12JDWE
	512	—	30	11-Ch., 10-Bit	4-Ch.	IIC, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	42-DIP	MC68HC908SR12CB-ND	8.49	5.80	5.52	MC68HC908SR12CB
	512	—	30	11-Ch., 10-Bit	4-Ch.	IIC, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	42-DIP	MC908SR12CBE-ND◊ ***NEW!***	10.00	6.07	5.80	MC908SR12CBE
	512	—	33	14-Ch., 10-Bit	4-Ch.	IIC, SCI	See Timer	5.0	8.0	-40 ~ 85	48-LQFP	MC908SR12CFAE-ND◊ ***NEW!***	10.00	6.07	5.80	MC908SR12CFAE
	512	—	33	14-Ch., 10-Bit	4-Ch.	IIC, SCI	See Timer	5.0	8.0	-40 ~ 125	48-LQFP	MC908SR12MFAE-ND◊ ***NEW!***	9.34	6.38	6.07	MC908SR12MFAE
	512	—	20	4-Ch., 10-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	52-Q FP	MC68HC908LJ12CFB-ND	8.83	5.98	5.57	MC68HC908JL12CFB
	512	—	20	4-Ch., 10-Bit	2-Ch.	SCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	52-QFP	MC908LJ12CFBE-ND◊ ***NEW!***	10.43	6.33	6.04	MC908LJ12CFBE
	512	—	32	6-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	64-LQFP	MC908LJ12CPBE-ND◊ ***NEW!***	10.43	6.33	6.04	MC908LJ12CPBE
	512	—	32	6-Ch., 10-Bit	4-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	64-QFP	MC68HC98LJ12CFUE-ND◊ ***NEW!***	10.43	6.33	6.04	MC68HC98LJ12CFUE
16K	384	—	21	—	2-Ch.	USB, SCI	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	28-SOIC	MC908JB16DWE-ND◊ ***NEW!***	4.55	2.92	2.64	MC908JB16DWE
	384	—	21	—	2-Ch.	USB, SCI	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	32-LQFP	MC908JB16FAE-ND◊ ***NEW!***	4.60	2.95	2.67	MC908JB16FAE
	384	—	21	—	2-Ch.	USB, SCI	See Timer	4.0 ~ 5.5	6.0	-40 ~ 85	20-SOIC	MC908JB16JDWE-ND◊ ***NEW!***	4.53	2.91	2.63	MC908JB16JDWE
	512	—	24	8-Ch., 10-Bit	2-Ch.	ESCI, SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	32-LQFP	MC68HC908EY16VFA-ND	8.81	6.01	5.72	MC68HC908EY16VFA
	512	—	24	8-Ch., 10-Bit	2-Ch.	ESCI, SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	32-LQFP	MC908EY16VFAE-ND◊ ***NEW!***	8.81	6.01	5.72	MC908EY16VFAE
	512	—	24	8-Ch., 10-Bit	2-Ch.	ESCI, SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	32-LQFP	MC908EY16CFAE-ND◊ ***NEW!***	8.39	5.99	5.45	MC908EY16CFAE
	512	—	24	8-Ch., 10-Bit	2-Ch.	ESCI, SCI, SPI	See Timer	5.0	8.0	-40 ~ 125	32-LQFP	MC908EY16MFAE-ND◊ ***NEW!***	9.24	6.30	6.00	MC908EY16MFAE
	512	—	36	8-Ch., 8-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	42-DIP	MC908GT16CBE-ND◊ ***NEW!***	11.25	6.83	6.52	MC908GT16CBE
	512	—	36	8-Ch., 8-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	44-PQFP	MC908GT16CFBE-ND◊ ***NEW!***	11.25	6.83	6.52	MC908GT16CFBE
	768	—	44	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	See Timer 6-Ch., 12-Bit	5.0	8.0	-40 ~ 85	64-QFP	MC68HC908MR16CFU-ND	8.74	6.48	6.04	MC68HC908MR16CFU
	768	—	44	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	See Timer 6-Ch., 12-Bit	5.0	8.0	-40 ~ 85	64-QFP	MC908MR16CFUE-ND◊ ***NEW!***	9.55	6.52	6.21	MC908MR16CFUE
	768	—	37	9-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	5.0	8.2	-40 ~ 85	56-DIP	MC68HC908MR16CB-ND	9.55	6.52	6.21	MC68HC908MR16CB
	768	—	37	9-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	5.0	8.2	-40 ~ 85	56-DIP	MC908MR16CBE-ND◊ ***NEW!***	9.55	6.52	6.21	MC908MR16CBE
	1K	—	21	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI, CAN2	See Timer	3.3, 5.0	8.0	-40 ~ 85	32-LQFP	MC68HC908GZ16CFJ-ND	8.92	6.09	5.79	MC68HC908GZ16CFJ
	1K	—	37	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI, CAN2	See Timer	3.3, 5.0	8.0	-40 ~ 85	48-LQFP	MC68HC908GZ16CFA-ND	8.92	6.09	5.79	MC68HC908GZ16CFA
	1K	—	21	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.3, 5.0	8.0	-40 ~ 85	32-LQFP	MC68HC908GR16CFJ-ND	8.49	5.80	5.52	MC68HC908GR16CFJ
	1K	—	21	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.3, 5.0	8.0	-40 ~ 85	32-LQFP	MC68908GR16CFJE-ND◊ ***NEW!***	8.49	5.80	5.52	MC68908GR16CFJE
	1K	—	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908GR16ACFJE-ND◊ ***NEW!***	8.49	5.80	5.52	MC908GR16ACFJE
	1K	—	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 125	48-LQFP	MC908GR16MFAE-ND◊ ***NEW!***	9.34	6.38	6.07	MC908GR16MFAE
	1K	—	37	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.3, 5.0	8.0	-40 ~ 85	48-LQFP	MC908GR16CFAE-ND◊ ***NEW!***	8.49	5.80	5.52	MC908GR16CFAE
	1K	—	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908GR16ACFAE-ND◊ ***NEW!***	8.49	8.49	8.49	MC908GR16ACFAE
	1K	—	30	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	42-DIP	MC68HC908AP16CB-ND	5.84	4.17	3.79	MC68HC908AP16CB
	1K	—	32	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	44-QFP	MC908AP16CFBE-ND◊ ***NEW!***	5.84	4.17	3.79	MC908AP16CFBE
	1K	—	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	44-QFP	MC908GP16CFBE-ND◊ ***NEW!***	6.37	4.55	4.14	MC908GP16CFBE
	1K	—	37	8-Ch., 10-Bit	2-Ch.	ESCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	42-PSDIP	MC908GP16CBE-ND◊ ***NEW!***	6.37	4.55	4.14	MC908GP16CBE
24K	768	—	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.3 ~ 8.0	8.0	-40 ~ 85	80-PQFP	MC908LJ24CFQE-ND◊ ***NEW!***	11.04	7.89	7.17	MC908LJ24CFQE
	768	—	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.3 ~ 7.0	8.0	-40 ~ 85	64-PQFP	MC908LJ24CFUE-ND◊ ***NEW!***	10.40	7.43	6.76	MC908LJ24CFUE
	768	—	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.3 ~ 6.0	8.0	-40 ~ 85	64-LQFP	MC908LJ24CPBE-ND◊ ***NEW!***	10.40	7.43	6.76	MC908LJ24CPBE
	768	—	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	64-PQFP	MC908LK24CFUE-ND◊ ***NEW!***	9.77	6.67	6.34	MC908LK24CFUE
	768	—	40	6-Ch., 10-Bit	2-Ch.	SCI, SPI	—	5.0	8.0	-40 ~ 85	80-PQFP	MCHC908LK24CFQE-ND◊ ***NEW!***	10.40	7.43	6.76	MCHC908LK24CFQE
32K	512	—	33	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	44-QFP	MC68HC908GP32CFB-ND	10.40	7.82	7.32	MC68HC908GP32CFB
	512	—	33	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	44-QFP	MC908GP32CFBE-ND◊ ***NEW!***	11.68	8.34	7.58	MC908GP32CFBE
	512	—	33	8-Ch., 8-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	40-DIP	MC68HC908GP32CP-ND	10.40	7.82	7.32	MC68HC908GP32CP
	512	—	33	8-Ch., 8-Bit	4-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.2	-40 ~ 85	44-QFP	MC908GP32CFBR2CT-ND	10.76	8.14	7.51	MC908GP32CFBR2
	512	—	33	8-Ch., 8-Bit	4-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.2	-40 ~ 85	44-QFP	MC908GP32CFBERCT-ND◊ ***NEW!***	11.93	8.52	7.75	MC908GP32CFBER
	512	—	33	8-Ch., 8-Bit	4-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.2	-40 ~ 85	44-QFP	MC908GP32CFBR2TR-ND	5294.25/750			MC908GP32CFBR2
	512	—	33	8-Ch., 8-Bit	4-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.2	-40 ~ 85	44-QFP	MC908GP32CFBERTR-ND◊ ***NEW!***	5294.04/750			MC908GP32CFBER
	512	—	31	8-Ch., 8-Bit	4-Ch.	SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	42-DIP	MC908GP32CBE-ND◊ ***NEW!***	11.68	8.34	7.58	MC908GP32CBE
	768	—	44	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	See Timer 6-Ch., 12-Bit	5.0	8.0	-40 ~ 85	64-QFP	MC68HC908MR32CFU-ND	11.30	8.56	8.02	MC68HC908MR32CFU
	768	—	44	10-Ch., 10-Bit	4-Ch. + 2-Ch.	SCI, SPI	See Timer 6-Ch., 12-Bit	5.0	8.0	-40 ~ 85	64-QFP	MC908MR32CFUE-ND◊ ***NEW!***	11.59	8.77	8.08	MC908MR32CFUE
	768	—	36	9-Ch., 10-Bit	2-Ch.	SCI, SPI	See Timer	5.0	8.2	-40 ~ 85	56-DIP	MC68HC908MR32CB-ND	11.59	8.77	8.08	MC68HC908MR32CB
	1K	512	40	15-Ch., 8-Bit	6-Ch.	J1850, SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	52-PLCC	MC908AS32ACFNE-ND◊ ***NEW!***	11.39	8.62	7.95	MC908AS32ACFNE
	1K	512	40	15-Ch., 8-Bit	6-Ch.	J1850, SCI, SPI	See Timer	5.0	8.0	-40 ~ 125	52-PLCC	MC908AS32AMFNE-ND◊ ***NEW!***	12.54	9.49	8.75	MC908AS32AMFNE
	1K	512	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	64-QFP	MC908AB32CFUE-ND◊ ***NEW!***	12.63	8.62	8.20	MC908AB32CFUE
	1K	512	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	64-QFP	MCHC908AB32CFURCT-ND	11.68	8.84	8.15	MCHC908AB32CFUR2
	1K	512	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	64-QFP	MC908AB32CFUERCT-ND◊ ***NEW!***	11.68	8.84	8.15	MC908AB32CFUER
	1K	512	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	64-QFP	MCHC908AB32CFURTR-ND	5746.50/750			MCHC908AB32CFUR2
	1K	512	51	8-Ch., 8-Bit	8-Ch.	SCI, SPI	See Timer	5.0	8.0	-40 ~ 85	64-QFP	MC908AB32CFUERTR-ND◊ ***NEW!***	5746.20/750			MC908AB32CFUER
	1K	512	50	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ32ACFU-ND	11.39	8.62	7.95	MC908AZ32ACFU
	1K	512	50	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ32ACFUE-ND◊ ***NEW!***	11.39	8.62	7.95	MC908AZ32ACFUE

◊ ***RoHS Compliant***

(Continued)

Microcontrollers – 8 and 16 Bit *(Cont.)*

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	EEPROM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	PWM	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
													1	25	100	
32K	1K	512	50	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 125	64-QFP	MC908AZ32AMFUE-ND◊ ***NEW!***	12.54	9.49	8.75	MC908AZ32AMFUE
	1K	512	50	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 105	64-QFP	MC908AZ32AVFUE-ND◊ ***NEW!***	11.97	9.05	8.35	MC908AZ32AVFUE
	1K	—	29	—	2-Ch.	USB, SPI	See Timer	3.3, 5.0	8.0	0 ~ 70	48-QFN	MCHC908JW32FC-ND◊	6.69	4.78	4.35	MCHC908JW32FC
	1.5K	—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908GR32ACFAE-ND◊ ***NEW!***	8.92	6.09	5.79	MC908GR32ACFAE
	1.5K	—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908GR32ACFJE-ND◊ ***NEW!***	8.92	6.09	5.79	MC908GR32ACFJE
	1.5K	—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	64-QFP	MC908GR32ACFUE-ND◊ ***NEW!***	9.24	6.30	6.00	MC908GR32ACFUE
	1.5K	—	37	8-Ch., 10-Bit	2-Ch.	CAN, SPI	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GZ32CFAE-ND◊ ***NEW!***	9.55	6.52	6.21	MC908GZ32CFAE
	1.5K	—	37	8-Ch., 10-Bit	2-Ch.	CAN, SPI	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908GZ32CFJE-ND◊ ***NEW!***	9.55	6.52	6.21	MC908GZ32CFJE
	1.5K	—	37	8-Ch., 10-Bit	2-Ch.	CAN, SPI	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908GZ32CFUE-ND◊ ***NEW!***	9.87	6.74	6.41	MC908GZ32CFUE
	2K	—	30	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	42-DIP	MC68HC908AP32CB-ND	7.43	5.31	4.83	MC68HC908AP32CB
	2K	—	32	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	44-QFP	MC908AP32CFBE-ND◊ ***NEW!***	7.43	5.31	4.83	MC908AP32CFBE
	2K	—	32	8-Ch., 10-Bit	2-Ch.	IIC, SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	44-LQFP	MC908AP32CFAE-ND◊ ***NEW!***	7.43	5.31	4.83	MC908AP32CFAE
	2K	—	32	8-Ch., 10-Bit	2-Ch.	IIC, SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 125	64-QFP	MC908AB32MFUE-ND◊ ***NEW!***	12.52	9.47	8.74	MC908AB32MFUE
	2K	—	32	8-Ch., 10-Bit	2-Ch.	IIC, SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 105	64-QFP	MC908AB32VFUE-ND◊ ***NEW!***	11.95	9.04	8.34	MC908AB32VFUE
48K	1K	—	32	6-Ch., 8-Bit	2-Ch.	—	16-Ch., 8-Bit	5.0	6.0	-40 ~ 85	42-DIP	MC908BD48IBE-ND◊ ***NEW!***	9.25	5.94	5.36	MC908BD48IBE
	1.5K	—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908GR48ACFAE-ND◊ ***NEW!***	9.98	6.81	6.48	MC908GR48ACFAE
	1.5K	—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908GR48ACFJE-ND◊ ***NEW!***	9.98	6.81	6.48	MC908GR48ACFJE
	1.5K	—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	64-QFP	MC908GR48ACFUE-ND◊ ***NEW!***	10.30	7.03	6.69	MC908GR48ACFUE
	1.5K	—	37	8-Ch., 10-Bit	2-Ch.	SCI, SPI, CAN	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	48-LQFP	MC908GZ48CFAE-ND◊ ***NEW!***	9.58	7.24	6.68	MC908GZ48CFAE
	1.5K	—	37	8-Ch., 10-Bit	2-Ch.	SCI, SPI, CAN	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	64-QFP	MC908GZ48CFUE-ND◊ ***NEW!***	9.86	7.46	6.88	MC908GZ48CFUE
60K	2K	1K	42	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	52-PLCC	MC908AS60ACFN-ND	16.76	12.67	11.69	MC908AS60ACFN
	2K	1K	42	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	52-PLCC	MC908AS60ACFNE-ND◊ ***NEW!***	16.76	12.67	11.69	MC908AS60ACFNE
	2K	1K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60ACFU-ND	16.70	11.90	11.51	MC908AZ60ACFU
	2K	1K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60ACFUE-ND◊ ***NEW!***	16.76	12.67	11.69	MC908AZ60ACFUE
	2K	1K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 125	64-QFP	MC908AZ60AMFU-ND	18.42	13.93	12.85	MC908AZ60AMFU
	2K	1K	50	15-Ch., 8-Bit	6-Ch. + 2-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 125	64-QFP	MC908AZ60AMFUE-ND◊ ***NEW!***	18.44	13.95	12.86	MC908AZ60AMFUE
	2K	1K	52	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AS60ACFUE-ND◊ ***NEW!***	16.76	12.67	11.69	MC908AS60ACFUE
	2K	1K	52	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 125	64-QFP	MC908AS60AMFUE-ND◊ ***NEW!***	18.44	13.95	12.86	MC908AS60AMFUE
	2K	1K	52	15-Ch., 8-Bit	6-Ch.	SCI, SPI	See Timer	5.0	8.4	-40 ~ 105	64-QFP	MC908AS60AVFUE-ND◊ ***NEW!***	17.60	13.31	12.27	MC908AS60AVFUE
	2K	—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908GR60ACFAE-ND◊ ***NEW!***	9.96	7.53	6.95	MC908GR60ACFAE
	2K	—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	32-LQFP	MC908GR60ACFJE-ND◊ ***NEW!***	9.96	7.53	6.95	MC908GR60ACFJE
	2K	—	21	8-Ch., 8-Bit	2-Ch.	SCI, SPI	See Timer	3.0 ~ 5.0	8.0	-40 ~ 85	64-QFP	MC908GR60ACFUE-ND◊ ***NEW!***	10.30	7.80	7.19	MC908GR60ACFUE
	2K	—	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	48-LQFP	MC68HC908GZ60CFA-ND	10.53	7.97	7.35	MC68HC908GZ60CFA
	2K	—	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	See Timer	3.0, 5.0	8.0	-40 ~ 125	48-LQFP	MC68HC908GZ60MFA-ND	11.70	8.85	8.16	MC68HC908GZ60MFA
	2K	—	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	See Timer	3.0, 5.0	8.0	-40 ~ 125	48-LQFP	MC908GZ60MFAE-ND◊ ***NEW!***	11.59	8.77	8.08	MC908GZ60MFAE
	2K	—	37	8-Ch., 10-Bit	2-Ch.	SCI, SPI, CAN	See Timer	3.6 ~ 5.5	8.0	-40 ~ 85	32-LQFP	MC908GZ60CFJE-ND◊ ***NEW!***	10.53	7.97	7.35	MC908GZ60CFJE
	2K	—	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	32-LQFP	MC68HC908GZ60CFJ-ND	10.53	7.97	7.35	MC68HC908GZ60CFJ
	2K	—	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	See Timer	3.0, 5.0	8.0	-40 ~ 85	64-QFP	MC68HC908GZ60CFU-ND	10.88	8.23	7.59	MC68HC908GZ60CFU
	2K	—	37	24-Ch., 10-Bit	2-Ch.	SPI, ESCI	See Timer	3.0, 5.0	8.0	-40 ~ 105	64-QFP	MC68HC908GZ60VFU-ND	11.39	8.62	7.95	MC68HC908GZ60VFU
	2K	—	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60ACFUERCT-ND◊ ***NEW!***	17.04	12.89	11.89	MC908AZ60ACFUER
	2K	—	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60ACFUERTR-ND◊ ***NEW!***	8190.23/750			MC908AZ60ACFUER
61K	2K	1K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60AVFUR2CT-ND	17.89	13.53	12.47	MC908AZ60AVFUR2
	2K	1K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60AVFUR2TR-ND	8595.00/750			MC908AZ60AVFUR2
	2K	1K	52	15-Ch., 8-Bit	8-Ch.	MSCAN12, SCI, SPI	See Timer	5.0	8.4	-40 ~ 85	64-QFP	MC908AZ60AVFUE-ND◊ ***NEW!***	17.60	13.31	12.27	MC908AZ60AVFUE
64K	2K	—	30	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	42-DIP	MC68HC908AP64CB-ND	9.55	6.52	6.21	MC68HC908AP64CB
	2K	—	32	8-Ch., 10-Bit	Dual 2-Ch.	I2C, 2-SCI, SPI	See Timer	3.0, 5.0	8.0	-40 ~ 85	44-QFP	MC908AP64CFBE-ND◊	9.55	6.52	6.21	MC908AP64CFBE
	2K	—	32	8-Ch., 10-Bit	2-Ch.	IIC, SCI, SPI	See Timer	3.3 ~ 5.0	8.0	-40 ~ 85	48-LQFP	MC908AP64CFAE-ND◊ ***NEW!***	9.55	6.52	6.21	MC908AP64CFAE
HC9S08																
4K	128	—	15	10-Ch., 8-BIt	2-Ch.	—	See Timer	5.0	8.0	-40 ~ 85	20-SOIC	MC68HRC98JK3ECDW-ND	4.13	2.65	2.39	MC68HRC98JK3ECDW
	128	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0	8.0	-40 ~ 85	28-SOIC	MC68HRC98JL3ECDW-ND	5.25	3.19	3.05	MC68HRC98JL3ECDW
	128	—	23	12-Ch., 8-Bit	2-Ch.	—	See Timer	3.0	8.0	-40 ~ 85	28-SOIC	MCR908JL3ECDWE-ND◊ ***NEW!***	5.25	3.37	3.05	MCR908JL3ECDWE
	256	—	6	4-Ch., 10-Bit	—	—	—	1.8/3.6	8.0	-40 ~ 85	8-SOIC	MC9S08QG4CDNE-ND◊ ***NEW!***	3.53	2.27	2.05	MC9S08QG4CDNE
	256	—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2 Ch., 16-Bit	1.8/3.6	10.0	-40 ~ 85	16-TSSOP	MC9S08QG4CDTE-ND◊ ***NEW!***	3.75	2.41	2.18	MC9S08QG4CDTE
	256	—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2 Ch., 16-Bit	1.8/3.6	10.0	-40 ~ 85	16-QFN	MC9S08QG4CFFE-ND◊ ***NEW!***	3.80	2.44	2.21	MC9S08QG4CFFE
	256	—	6	4-Ch., 10-Bit	—	—	—	1.8/3.6	8.0	-40 ~ 85	8-QFN-D	MC9S08QG4CFQE-ND◊ ***NEW!***	3.55	2.28	2.06	MC9S08QG4CFQE
	256	—	6	4-Ch., 10-Bit	—	—	—	1.8/3.6	8.0	-40 ~ 85	8-DIP	MC9S08QG4CPAE-ND◊ ***NEW!***	3.48	2.23	2.02	MC9S08QG4CPAE
8K	512	—	6	4-Ch., 10-Bit	—	—	—	1.8/3.6	8.0	-40 ~ 85	8-SOIC	MC9S08QG8CDNE-ND◊ ***NEW!***	3.70	2.38	2.15	MC9S08QG8CDNE
	512	—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2 Ch., 16-Bit	1.8/3.6	10.0	-40 ~ 85	16-TSSOP	MC9S08QG8CDTE-ND◊ ***NEW!***	3.95	2.54	2.29	MC9S08QG8CDTE
	512	—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2 Ch., 16-Bit	1.8/3.6	10.0	-40 ~ 85	16-QFN	MC9S08QG8CFFE-ND◊ ***NEW!***	4.00	2.57	2.32	MC9S08QG8CFFE
	512	—	6	4-Ch., 10-Bit	—	—	—	1.8/3.6	8.0	-40 ~ 85	8-QFN-D	MC9S08QG8CFQE-ND◊ ***NEW!***	3.73	2.39	2.16	MC9S08QG8CFQE
	512	—	14	8-Ch., 10-Bit	2-Ch.	SCI, SPI	2 Ch., 16-Bit	1.8/3.6	10.0	-40 ~ 85	16-DIP	MC9S08QG8CPBE-ND◊ ***NEW!***	3.80	2.44	2.21	MC9S08QG8CPBE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	44-LQFP	MC9S08RC8FGE-ND◊ ***NEW!***	5.13	3.11	2.97	MC9S08RC8FGE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RC8CFJE-ND◊ ***NEW!***	5.13	3.11	2.97	MC9S08RC8CFJE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RD8CFJE-ND◊ ***NEW!***	5.38	3.26	3.12	MC9S08RD8CFJE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	44-LQFP	MC9S08RD8CFGE-ND◊ ***NEW!***	5.38	3.26	3.12	MC9S08RD8CFGE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	32-LQFP	MC9S08RE8FJE-ND◊ ***NEW!***	5.63	3.42	3.26	MC9S08RE8FJE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	44-LQFP	MC9S08RE8FGE-ND◊ ***NEW!***	5.63	3.42	3.26	MC9S08RE8FGE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RE8CFJE-ND◊ ***NEW!***	5.63	3.42	3.26	MC9S08RE8CFJE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	44-LQFP	MC9S08RE8CFGE-ND◊ ***NEW!***	5.63	3.42	3.26	MC9S08RE8CFGE
16K	1K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	1.8/3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT16CFBE-ND◊ ***NEW!***	5.63	4.02	3.66	MC9S08GT16CFBE
	1K	—	36	—	2-Ch.	SCI, SPI	2 Ch., 16-Bit	1.8/3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT16CFDE-ND◊ ***NEW!***	5.84	4.17	3.79	MC9S08GT16CFDE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	32-LQFP	MC9S08RC16FJE-ND◊ ***NEW!***	6.26	4.48	4.07	MC9S08RC16FJE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	44-LQFP	MC9S08RC16FGE-ND◊ ***NEW!***	6.26	4.48	4.07	MC9S08RC16FGE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RC16CFJE-ND◊ ***NEW!***	6.26	4.48	4.07	MC9S08RC16CFJE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	44-LQFP	MC9S08RC16CFGE-ND◊ ***NEW!***	6.26	4.48	4.07	MC9S08RC16CFGE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	32-LQFP	MC9S08RD16FJE-ND◊ ***NEW!***	6.48	4.63	4.21	MC9S08RD16FJE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	32-LQFP	MC9S08RE16FJE-ND◊ ***NEW!***	6.79	4.86	4.41	MC9S08RE16FJE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	44-LQFP	MC9S08RE16FGE-ND◊ ***NEW!***	6.79	4.86	4.41	MC9S08RE16FGE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RE16CFJE-ND◊ ***NEW!***	6.79	4.86	4.41	MC9S08RE16CFJE
	1K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	44-LQFP	MC9S08RE16CFGE-ND◊ ***NEW!***	6.79	4.86	4.41	MC9S08RE16CFGE
32K	2K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT32CFB-ND	8.17	5.84	5.31	MC9S08GT32CFB
	2K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT32CFBE-ND◊ ***NEW!***	8.17	5.84	5.31	MC9S08GT32CFBE
	2K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	1.8/3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT32CFDE-ND◊ ***NEW!***	8.39	5.99	5.45	MC9S08GT32CFDE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	32-LQFP	MC9S08RC32FJE-ND◊ ***NEW!***	7.96	5.69	5.17	MC9S08RC32FJE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RC32CFJE-ND◊ ***NEW!***	7.96	5.69	5.17	MC9S08RC32CFJE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	44-LQFP	MC9S08RC32CFGE-ND◊ ***NEW!***	7.96	5.69	5.17	MC9S08RC32CFGE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RD32CFJE-ND◊ ***NEW!***	8.17	5.84	5.31	MC9S08RD32CFJE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	44-LQFP	MC9S08RD32CFGE-ND◊ ***NEW!***	8.17	5.84	5.31	MC9S08RD32CFGE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RE32CFJE-ND◊ ***NEW!***	8.39	5.99	5.45	MC9S08RE32CFJE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RG32CFJE-ND◊ ***NEW!***	8.60	5.87	5.59	MC9S08RG32CFJE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	44-LQFP	MC9S08RG32CFGE-ND◊ ***NEW!***	8.60	5.87	5.59	MC9S08RG32CFGE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	44-LQFP	MC9S08RG32FGE-ND◊ ***NEW!***	8.60	5.87	5.59	MC9S08RG32FGE
	2K	—	56	8-Ch., 10-Bit	3-Ch. + 5-Ch.	SCI, SPI	See Timer	3.6	20.0	-40 ~ 85	64-LQFP	MC9S08GB32CFU-ND	8.81	6.01	5.72	MC9S08GB32CFU
	2K	—	56	8-Ch., 10-Bit	3-Ch. + 5-Ch.	SCI, SPI	See Timer	3.6	20.0	-40 ~ 85	64-LQFP	MC9S08GB32CFUE-ND◊ ***NEW!***	8.81	6.01	5.72	MC9S08GB32CFUE
60K	2K	—	39	—	2-Ch.	SCI, SPI	See Timer	1.8 ~ 3.6	8.0	-40 ~ 85	44-LQFP	MC9S08RG60CFG-ND	9.67	7.32	6.75	MC9S08RG60CFG
	2K	—	39	—	2-Ch.	SCI, SPI	See Timer	1.8 ~ 3.6	8.0	-40 ~ 85	44-LQFP	MC9S08RG60CFGE-ND◊ ***NEW!***	9.67	7.32	6.75	MC9S08RG60CFGE

◊ ***RoHS Compliant***

(Continued)

HC908 Family — 8-Bit *(Cont.)*

FLASH (Bytes)	RAM (Bytes)	EEPROM (Bytes)	I/O	A/D	Timer (s) 16-Bit	Serial	PWM	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
60K	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	32-LQFP	MC9S08RC60FJE-ND◊ ***NEW!***	10.08	6.88	6.55	MC9S08RC60FJE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RC60CFJE-ND◊ ***NEW!***	10.08	6.88	6.55	MC9S08RC60CFJE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	44-LQFP	MC9S08RC60CFGE-ND◊ ***NEW!***	10.08	6.88	6.55	MC9S08RC60CFGE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	44-LQFP	MC9S08RD60FGE-ND◊ ***NEW!***	10.30	7.03	6.69	MC9S08RD60FGE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RD60CFJE-ND◊ ***NEW!***	10.30	7.03	6.69	MC9S08RD60CFJE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	44-LQFP	MC9S08RD60CFGE-ND◊ ***NEW!***	10.30	7.03	6.69	MC9S08RD60CFGE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	32-LQFP	MC9S08RE60FJE-ND◊ ***NEW!***	10.51	7.17	6.83	MC9S08RE60FJE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	0 ~ 70	44-LQFP	MC9S08RE60FGE-ND◊ ***NEW!***	10.51	7.17	6.83	MC9S08RE60FGE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	32-LQFP	MC9S08RE60CFJE-ND◊ ***NEW!***	10.51	7.17	6.83	MC9S08RE60CFJE
	2K	—	39	—	2-Ch.	SCI	2 Ch., 16-Bit	3.0	8.0	-40 ~ 85	44-LQFP	MC9S08RE60CFGE-ND◊ ***NEW!***	10.51	7.17	6.83	MC9S08RE60CFGE
	2K	—	39	—	2-Ch.	SCI	—	3.0	8.0	0 ~ 70	32-LQFP	MC9S08RG60FJE-ND◊ ***NEW!***	9.67	7.32	6.75	MC9S08RG60FJE
	2K	—	39	—	2-Ch.	SCI	—	3.0	8.0	0 ~ 70	44-LQFP	MC9S08RG60FGE-ND◊ ***NEW!***	9.67	7.32	6.75	MC9S08RG60FGE
	2K	—	27	—	2-Ch.	SCI, SPI	See Timer	1.8 ~ 3.6	8.0	-40 ~ 85	32-LQFP	MC9S08RG60CFJ-ND	9.67	7.32	6.74	MC9S08RG60CFJ
	2K	—	27	—	2-Ch.	SCI, SPI	See Timer	1.8 ~ 3.6	8.0	-40 ~ 85	32-LQFP	MC9S08RG60CFJE-ND◊ ***NEW!***	9.67	7.32	6.75	MC9S08RG60CFJE
	4K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT60CFB-ND	10.51	7.17	6.83	MC9S08GT60CFB
	4K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	3.6	20.0	-40 ~ 85	44-QFP	MC9S08GT60CFBE-ND◊ ***NEW!***	10.51	7.17	6.83	MC9S08GT60CFBE
	4K	—	36	8-Ch., 10-Bit	Dual 2-Ch.	SCI, SPI	See Timer	1.8/3.6	20.0	-40 ~ 85	48-QFN	MC9S08GT60CFDE-ND◊ ***NEW!***	9.67	7.32	6.75	MC9S08GT60CFDE
	4K	—	56	8-Ch., 10-Bit	3-Ch. + 5-Ch.	SCI, SPI	See Timer	3.6	20.0	-40 ~ 85	64-LQFP	MC9S08GB60CFU-ND	10.05	7.61	7.01	MC9S08GB60CFU
	4K	—	56	8-Ch., 10-Bit	3-Ch. + 5-Ch.	SCI, SPI	See Timer	3.6	20.0	-40 ~ 85	64-LQFP	MC9S08GB60CFUE-ND◊ ***NEW!***	10.05	7.61	7.01	MC9S08GB60CFUE

Demo Boards

Evaluation Board for MC9S08GB60	M68EVB908GB60-ND	265.90/1	M68EVB908GB60
Demo Board for MC9S08GB60	M68DEMO908GB60-ND	55.39/1	M68DEMO908GB60
Demo Board for MC9S08QG4/8	DEMO9S08QG8-ND ***NEW!***	56.53/1	DEMO9S08QG8
Demo Board for 908AP64	DEMO908AP64-ND	66.76/1	DEMO908AP64
Demo Board for 908GZ60	DEMO908GZ60-ND	68.06/1	DEMO908GZ60
Demo Board for 908LB8	DEMO908LB8-ND	66.76/1	DEMO908LB8
Demo Board for 9S08RG60	DEMO9S08RG60-ND	80.07/1	DEMO9S08RG60
Evaluation Board for HC908GP32	M68EVB908GP32-ND	207.06/1	M68EVB908GP32

◊ RoHS Compliant

HC912 Family — 16-Bit

The 68HC12 CPU is upwardly compatible with the 68HC11 core and supports all registers, instructions, addressing modes and operating modes of the 68HC11.

Features: • Fully static design allowing operation down to DC • 16-bit Accumulator • 20-bit ALU • 16-bit Timer with built-in prescaler • BDM (Background Debug Module) for faster debugging and non-intrusive, real time read/write capability to the memory and registers • SAE J1850 BDLC-D (Byte Data Link Control Module) for single wire communication with other BDLC MCUs • COP Watchdog Timer • Low power STOP and WAIT modes • SPI, SCI • High-level language optimization • 32/16 Divide • 16 x 16 Multiply

Flash (Bytes)	RAM (Bytes)	EEPROM (Bytes)	Timer	PWM	I/O	A/D	Features	Operating Voltage (V)	Max. Bus Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each 1	25	100	Freescale Part No.
32K	1K	768	8-Ch., 16-Bit	4-Ch., 8-Bit or 2-Ch., 16-Bit	63	8-Ch.,10-Bit	—	5.0	8.0	-40 ~ 85	80-QFP	MC68HC912B32CFU8-ND	19.26	15.21	14.34	MC68HC912B32CFU8
	1K	768	8-Ch., 16-Bit	2-Ch., 8-Bit	63	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 85	80-QFP	MCHC912B32CFUE8-ND◊ ***NEW!***	19.49	15.29	14.40	MCHC912B32CFUE8
		768	8-Ch., 16-Bit	2-Ch., 8-Bit	63	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 125	80-QFP	MCHC912B32MFUE8-ND◊ ***NEW!***	21.44	16.82	15.84	MCHC912B32MFUE8
		768	8-Ch., 16-Bit	2-Ch., 8-Bit	63	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 105	80-QFP	MCHC912B32VFUE8-ND◊ ***NEW!***	20.45	16.04	15.11	MCHC912B32VFUE8
	3.5	—	8-Ch., 16-Bit	See Timer	42	—	USB 2.0	5.0	30.0	0 ~ 70	64-LQFP	MC9S12UF32PB-ND	8.92	6.09	5.79	MC9S12UF32PB
		—	8-Ch., 16-Bit	See Timer	75	—	USB 2.0	5.0	30.0	0 ~ 70	100-LQFP	MC9S12UF32PU-ND	9.55	6.52	6.21	MC9S12UF32PU
60K	2K	1K	8-Ch., 16 Bit	4-Ch., 8-Bit	48	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40 ~ 85	80-QFP	MC912D60ACFU8-ND	18.04	14.16	13.34	MC912D60ACFU8
64K	4K	1K	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	5.0	25.0	-40 ~ 85	80-QFP	MCS12GC64CFUE-ND◊ ***NEW!***	8.81	6.01	5.72	MCS12GC64CFUE
		1K	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	5.0	25.0	-40 ~ 125	80-QFP	MCS12GC64MFUE-ND◊ ***NEW!***	9.70	6.62	6.30	MCS12GC64MFUE
		1K	8-Ch., 16-Bit	6-Ch., 8-Bit	60	8-Ch., 10-Bit	SCI, SPI	5.0	25.0	-40 ~ 105	80-QFP	MCS12GC64VFUE-ND◊ ***NEW!***	9.26	6.32	6.01	MCS12GC64VFUE
128K	8K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40 ~ 85	112-LQFP	MC912DG128ACPVE-ND◊ ***NEW!***	31.61	24.80	23.36	MC912DG128ACPVE
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	69	8-Ch., 10-Bit	SCI, SPI	5.0	8.0	-40 ~ 125	112-LQFP	MC912DG128AMPVE-ND◊ ***NEW!***	34.44	27.01	25.45	MC912DG128AMPVE
HC9S12																
6K	2K	1K	8-Ch., 16-Bit	4-Ch., 16-Bit	16	8-Ch., 10-Bit	CAN 2.0	5.0	8.0	-40 ~ 85	112-LQFP	MC912D60ACPV8-ND	18.04	14.16	13.34	MC912D60ACPV8
32K	2K	—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 ~ 5.55	25.0	-40 ~ 125	80-QFP	MC9S12C32MFU25-ND	11.16	8.45	7.79	MC9S12C32MFU25
		—	8-Ch., 16-Bit	See Timer	60	8-Ch., 10-Bit	CAN 2.0	3.15 ~ 5.55	25.0	-40 ~ 125	52-LQFP	MC9S12C32MPB25-ND	10.65	8.06	7.43	MC9S12C32MPB25
64K	2K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12B64CFUE-ND◊ ***NEW!***	11.82	8.94	8.24	MC9S12B64CFUE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	80-QFP	MC9S12B64MFUE-ND◊ ***NEW!***	13.21	10.00	9.22	MC9S12B64MFUE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 105	80-QFP	MC9S12B64VFUE-ND◊ ***NEW!***	12.60	9.53	8.79	MC9S12B64VFUE
	2K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12B64CPVE-ND◊ ***NEW!***	12.39	9.37	8.64	MC9S12B64CPVE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	112-LQFP	MC9S12B64MPVE-ND◊ ***NEW!***	13.69	10.36	9.55	MC9S12B64MPVE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 105	112-LQFP	MC9S12B64VPVE-ND◊ ***NEW!***	13.08	9.89	9.12	MC9S12B64VPVE
	4K	1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	80-QFP	MC9S12D64CFU-ND	15.03	11.37	10.48	MC9S12D64CFU
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	80-QFP	MC9S12D64MFU-ND	16.55	12.52	11.54	MC9S12D64MFU
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 125	112-LQFP	MC9S12D64MPV-ND	17.06	12.91	11.90	MC9S12D64MPV
		1K	8-Ch., 16-Bit	4-Ch., 16-Bit	59	8-Ch., 10Bit	CAN 2.0	5.0	25.0	-40 ~ 105	80-QFP	MC9S12D64VFU-ND	15.78	11.94	11.01	MC9S12D64VFU
		—	(3) 4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3 ~ 5.0	25.0	-40 ~ 85	80-QFP	MC9S12E64CFU-ND	12.26	9.27	8.55	MC9S12E64CFU
	8K	—	4-Ch., 16-Bit	See Timer	36	8-Ch., 10-Bit	Ethernet	3.3 ~ 5.0	25.0	-40 ~ 105	80-TQFP	MC9S12NE64VTU-ND	17.24	13.04	12.02	MC9S12NE64VTU
	8K	—	4-Ch., 16-Bit	See Timer	70	8-Ch., 10-Bit	Ethernet	3.3 ~ 5.0	25.0	-40 ~ 85	112-LQFP	MC9S12NE64CPV-ND	17.81	13.47	12.42	MC9S12NE64CPV
	12K	—	(3) 4-Ch., 16-Bit	See Timer	90	16-Ch., 10-Bit	—	3.3 ~ 5.0	25.0	-40 ~ 125	80-QFP	MC9S12E64MFU-ND	13.48	10.20	9.40	MC9S12E64MFU
128K	4K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 125	80-QFP	MC9S12B128MFUE-ND◊ ***NEW!***	17.22	13.02	12.01	MC9S12B128MFUE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 105	80-QFP	MC9S12B128VFUE-ND◊ ***NEW!***	16.43	12.43	11.46	MC9S12B128VFUE
	4K	1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 85	112-LQFP	MC9S12B128CPVE-ND◊ ***NEW!***	16.22	12.27	11.31	MC9S12B128CPVE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 125	112-LQFP	MC9S12B128MPVE-ND◊ ***NEW!***	17.79	13.46	12.41	MC9S12B128MPVE
		1K	8-Ch., 16-Bit	8-Ch., 8-Bit	91	16-Ch., 10-Bit	CAN 2.0	5.5	25.0	-40 ~ 105	112-LQFP	MC9S12B128VPVE-ND◊ ***NEW!***	17.01	12.86	11.86	MC9S12B128VPVE
	8K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DB128CPV-ND	18.45	14.47	13.63	MC9S12DB128CPV
			8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DG128CPV-ND	18.96	14.34	13.22	MC9S12DG128CPV
	8K	2K	8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 125	112-LQFP	MC9S12DG128MPV-ND	19.13	15.01	14.14	MC9S12DG128MPV
		2K	8-Ch., 16-Bit	4-Ch., 16-Bit	91	(2) 8-Ch., 10-Bit	(2) CAN 2.0	5.0	25.0	-40 ~ 105	112-LQFP	MC9S12DG128VPV-ND	18.27	14.34	13.50	MC9S12DG128VPV
		2K	8-Ch., 16-Bit	4-Ch, 16-Bit	91	(2) 8-Ch., 10-Bit	(3) CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DT128CPV-ND	25.50	14.06	13.24	MC9S12DT128CPV
		—	(3) 4-Ch., 16-Bit	See Timer	59	16-Ch., 10-Bit	—	3.3 ~ 5.0	25.0	-40 ~ 85	80-QFP	MC9S12E128CFUE-ND◊ ***NEW!***	12.72	9.62	8.87	MC9S12E128CFUE
		—	(3) 4-Ch., 16-Bit	See Timer	59	16-Ch., 10-Bit	—	3.3 ~ 5.0	25.0	-40 ~ 125	80-QFP	MC9S12E128MFU-ND	16.85	12.75	11.75	MC9S12E128MFU
		—	12-Ch., 16-Bit	6-Ch., 8-Bit	60	—	CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12E128CPVE-ND◊ ***NEW!***	14.55	11.01	10.15	MC9S12E128CPVE
512K	14K	4K	8-Ch., 16-Bit	8-Ch., 8-Bit	89	(2) 8-Ch., 10-Bit	5-CAN 2.0	5.0	25.0	-40 ~ 85	112-LQFP	MC9S12DP512CPV-ND	25.48	19.99	18.83	MC9S12DP512CPV

Demo Boards

Evaluation Board for MCS12	M68DKIT912C32-ND	68.06/1	M68DKIT912C32
Evaluation Board for MC9S12C32	M68EVB912C32-ND	184.62/1	M68EVB912C32
Evaluation Board for MC9S12E128/64	M68EVB912E128-ND	183.46/1	M68EVB912E128
Evaluation Board for NE64	EVB9S12NE64-ND	281.56/1	EVB9S12NE64
Demo Kit for NE64	DEMO9S12NE64-ND	84.79/1	DEMO9S12NE64
Development Kit for 912D60A with Serial Debugger	M68KIT912D60A-ND	527.77/1	M68KIT912D60A
Development Kit for 912D128A with Serial Debugger	M68KIT912DG128A-ND	527.77/1	M68KIT912D128A
Development Kit for 912DP256 with Multilink	M68KIT912DP256-ND	580.14/1	M68KIT912DP256
Development Kit for 912UF32 with Multilink	M68KIT912UF32-ND	585.65/1	M68KIT912UF32

◊ RoHS Compliant

Little Doesn't Have to Mean Limited — *THINK BIG.*
Freescale's New RS08 Core and its MC9RS08KA 8-bit MCU

RS08 Core

The RS08 core is a reduced version of the S08 central processing unit (CPU) that has been specifically designed for small pin-count devices with under 16KB memory. Thirty percent smaller than the S08 CPU, it is more efficient and cost-effective for simple electro-mechanical devices that are migrating to fully solid-state electronic operation or portable devices that have evolved into smaller or even disposable versions.

MC9RS08KA2/1

Need an ultra low-end 8-bit MCU that won't say "no" to whatever your imagination dreams up?

With more on-board flash memory than competing devices, our 8-bit MC9RS08KA microcontroller (MCU) offers endless possibilities for designers facing constant challenges of shorter windows of opportunity, very large sales volumes that require low priced bill of materials (BOM) and scarce board space. This 6-pin device addresses all of these concerns with a simple design, cost-effective pricing and a tiny 3 mm x 3 mm dual flat no-lead (DFN) package option. Two 8-pin packages are also available. KA is ideal for small, energy efficient applications.

Applications

- High-brightness LED
- Lighting systems control
- Toys
- Small handheld devices
- Space-constrained applications
- Small appliances
- AC line voltage monitoring
- Simple logic replacement
- Analog driver replacement
- ASIC replacement

Features

8-bit RS08 Central Processor Unit (CPU)

- Up to 10MHz (bus frequency) RS08 CPU at 1.8 volts for 100 ns minimum instruction time
- RS08 instruction set — a subset of the powerful HC08 instruction set
- Supports tiny/short address mode
- Index addressing scheme through memory mapped registers X and D[X] within the tiny address range
- 14 byte code efficient RAM
- X and D[X] mapped within code efficient tiny address space
- 16 byte code efficient peripheral register space
- Page window
- Simplified interrupt mechanism
- Subroutine call/return mechanism

Integrated Third-Generation Flash

- Extremely fast, byte-writable programming — up to 20µs/byte
- Offers 1 KB write/erase cycles minimum over temperature

Flexible Clock Options

- Internal clock source module (ICS) contains a frequency-locked loop (FLL) controlled by internal reference

For more information, development tools, Virtual Lab, and to get started now, go to:

www.freescale.com/rs08

Package Options

Part Number	Package	Temp. Range
MC9RS08KA2CDB	6-pin DFN	-40°C to 85°C
MC9RS08KA2CSC	8-pin SOIC-NB	-40°C to 85°C
MC9RS08KA2CPC	8-pin PDIP	-40°C to 85°C
MC9RS08KA1CDB	6-pin DFN	-40°C to 85°C
MC9RS08KA1CSC	8-pin SOIC-NB	-40°C to 85°C
MC9RS08KA1CPC	8-pin PDIP	-40°C to 85°C

Block Diagram

RS08 core	LVD
1 KB/2 KB Flash	BDC
63 B RAM	COP
ICS	KBI
Analog comparator	8-bit MTIM

Development Tools

DEMO9RS08KA2

Cost-effective demonstration board with potentiometer, LEDs, serial port and built-in USB-BDM cable for debugging and programming

CYCLONEPROE

RS08/HC08/HCS08/HC12/HCS12 stand-alone Flash programmer or in-circuit emulator, debugger, Flash programmer; USB, serial, or Ethernet interface options

USBMULTILINKBDME

Universal HCS08/RS08 in-circuit debugger and Flash programmer; USB PC interface

CWX-H08-SE

CodeWarrior Special Edition for HC(S)08/RS08 MCUs. Includes integrated development environment (IDE), linker, debugger, unlimited assembler, Processor Expert™ auto-code generator and full-chip simulation. 16 KB C Compiler included for HC(S)08 MCUs.

Virtual Lab

Avoid the hassles of shipping, installation and configuration until you have evaluated the solution you really need. Run the available demos, go through tutorials, and try out your own code.

Virtual Labs can be used on demand when available or reserved for use at a specific time. Find quick start guides, development board information, manuals, product information, product summary, schematics tools, demos, tools and software.

freescale™
semiconductor

8-16 Bit Development Tools

In-Circuit Simulator (ICS)

Description	Digi-Key Part No.	Price Each
Simulator/Programmer for 68HC908JL3/JK3/JK1	M68ICS08JLJK-ND	333.83
Simulator/Programmer for 68HC908MR16/MR32	M68ICS08MR-ND	333.83
Simulator/Programmer for 68HC908RK2	M68ICS08RK2-ND	333.83
Simulator/Programmer for 68HC908JB8	M68ICS08JB-ND	333.83
Simulator/Programmer for 68HC908AB32	M68ICS08AB-ND	333.83
Simulator/Programmer for 68HC908KX8/KX2	M68ICS08KX-ND	333.83

Modular Evaluation System (MMEVS)

Contents:
- MMEVS Platform Board: IDE (including editor, assembler, debugger), 9-Lead RS-232 Serial Cable, 9-to-25-Pin Serial Cable Adapter, MMEVS User Manuals, Power Supply • Device Specific Emulation Module

Description	Digi-Key Part No.	Price Each
Evaluation System for 68HC705JP7/JJ7	KITMMEVS05JP-ND	1057.53
Evaluation System for 68HC705KJ1/J1A	KITMMEVS05KJ-ND	1057.53
Evaluation System for 68HC908JL3/JK3/JK1	KITMMEVS08JL-ND	1587.80
Evaluation System for 68HC908JB8	KITMMEVS08JB8-ND	1587.80
Evaluation System for 68HC908AB32	KITMMEVS08AB32-ND	1587.80
Evaluation System for 68HC908MR32/MR16	KITMMEVS08MR32-ND	1587.80
Evaluation System for 68HC908KX8/KX2	KITMMEVS08KX-ND	1587.80
Evaluation System for 68HC908QT/QY	KITMMEVS08QTQY-ND	1600.43
Evaluation System for 68HC05/08	M68MMPFB0508-ND	456.52

Modular Development System (MMDS)

Contents: • Station Module with Built-in Power Supply: Compact: 15.38" D x 10.19" W x 2.75" H (39cm D x 25.9cm W x 7cm H). Lightweight: 6lbs. (2.7kg). Built-in Power: 85 to 264VAC. Device-specific Emulator Module and flexible Target System Cable • Two Logic Clip Cable Assemblies • 9-lead RS-232 Serial Cable • 9 to 25 per Serial Cable Adapter • IDE with Editor, Assembler, and Debugger • MMDS User Manuals • MMDS tutorial

Description	Digi-Key Part No.	Price Each
Modular Development Kit for 68HC705B16	KITMMDS05B-ND	3662.53
Modular Development Kit for 68HC705JP7/JJ7	KITMMDS05JP-ND	3662.53
Modular Development Kit for 68HC705KJ1/J1A	KITMMDS05KJ-ND	3662.53
Modular Development Kit for 68HC908JL3/JK3/JK1	KITMMDS08JL-ND	4174.09
Modular Development Kit for 68HC908JB8	KITMMDS08JB8-ND	4174.09
Modular Development Kit for 68HC908AB32	KITMMDS08AB32-ND	4174.09
Modular Development Kit for 68HC908MR32/MR16	KITMMDS08MR32-ND	4174.09
Modular Development Kit for 68HC908KX8/KX2	KITMMDS08KX-ND	4174.09

MultiLink and CyclonePro

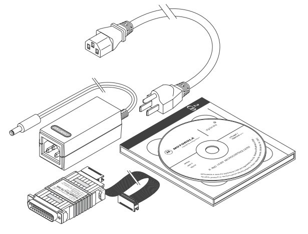

The MultiLink is an easy-to-use, low cost development tool for the Freescale HC(S)08 and HC(S)12 MCUs. It provides In-Circuit emulation, debugging and programming through the MON08 (HC08) and BDM (HC12, HCS08) interfaces.

Features: • Universal development tool for HC(S)08 and HC(S)12 MCUs • Real-Time In-Circuit emulation and debug • Fast In-Circuit programming • Auto-detects baud rate and frequency • Provides optional overdrive clock to target • Small size • Supports 2V to 5.5V • Auto-cycle power for security checks (up to 125mA) • Universal power supply (included). The M68CYCLONEPRO provides all the same capabilities of the MultiLinks, with the ability to function as a standalone programmer, with pushbuttons and LEDs to control operation. Also provides support for 1.8V operation.

M68CYCLONEPRO-ND	HC(S)08, HC(S)12, USB	**$519.40**
USBMULTILINK08-ND	HC08s, USB	**$127.57**
USBMULTILINKBDM-ND	HC(S)08, HC(S)12, USB	**$127.57**

32-Bit Microcontrollers

ColdFire™ the highly integrated ColdFire series of processors allow for advanced performance at low cost. Rich peripheral sets and development tools make these processors both easy to use and highly functional. The variable length RISC architecture enable this processor to save system memory and cost. **PowerPC**™ series of processors from Freescale Semiconductor, Inc. are the ideal foundation for RISC embedded applications. Features include high scalability and code compatibility over the entire line. **M-Core**™ with an emphasis on low power consumption, the M-CORE series of processors are the ideal match for handheld and other low-power applications, which require high performance. **68K** series of processors are ideal for the engineer looking for high performance at a reduced cost. The wide array of 68K processors can suit most any application.

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
												1	25	100	
ColdFire Processors															
1K	4K	—	4	TDM, USB	—	—	3.3	66	-40 ~ 85	196-BGA	MCF5272VM66-ND◊ ***NEW!***	19.13	15.01	14.14	MCF5272VM66
	4K	—	4	TDM, USB	—	—	3.3	66	-40 ~ 85	196-BGA	MCF5272CVM66-ND◊ ***NEW!***	21.86	17.15	16.15	MCF5272CVM66
2K	64K	256K	8+4 DmA	3 Asynch., QSPI	8-Ch., 10-Bit QADC	—	3.3, 5.0	66	0 ~ 70	256-MAPBGA	MCF5214CVM66-ND◊ ***NEW!***	21.47	16.84	15.87	MCF5214CVM66
	64K	—	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10 Bit QADC	See Timer	3.3, 5.0	66	-40 ~ 85	256-MAPBGA	MCF5280CVF66-ND	28.80	22.59	21.28	MCF5280CVF66
	64K	—	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10 Bit QADC	See Timer	3.3, 5.0	66	-40 ~ 85	256-MAPBGA	MCF5280CVM66-ND◊ ***NEW!***	27.94	21.92	20.64	MCF5280CVM66
	64K	—	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40 ~ 85	256-MAPBGA	MCF5280CVF80-ND	34.56	27.11	25.54	MCF5280CVF80
	64K	—	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40 ~ 85	256-MAPBGA	MCF5280CVM80-ND◊ ***NEW!***	33.52	26.30	24.77	MCF5280CVM80
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	66	-40 ~ 85	256-MAPBGA	MCF5281CVF66-ND	32.29	25.33	23.86	MCF5281CVF66
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	66	-40 ~ 85	256-MAPBGA	MCF5281CVM66-ND◊ ***NEW!***	31.33	24.57	23.15	MCF5281CVM66
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40 ~ 85	256-MAPBGA	MCF5281CVF80-ND	38.76	29.45	28.64	MCF5281CVF80
	64K	256K	8	3 Asynch., QSPI, CAN 2.0b, IIC	8-Ch., 10-Bit QADC	See Timer	3.3, 5.0	80	-40 ~ 85	256-MAPBGA	MCF5281CVM80-ND◊ ***NEW!***	37.58	28.56	27.77	MCF5281CVM80
	64K	512K	8+4 DmA	3 Asynch., QSPI	8-Ch., 10-Bit QADC	—	3.3, 5.0	66	-40 ~ 85	256-MAPBGA	MCF5216CVM66-ND◊ ***NEW!***	23.33	18.30	17.24	MCF5216CVM66
4K	8K	—	2	2 Asynch.	—	—	3.3	40	0 ~ 70	160-QFP	MCF5206ECAB40-ND◊ ***NEW!***	19.50	15.30	14.41	MCF5206ECAB40
	8K	—	2	2 Asynch.	—	—	3.3	40	0 ~ 70	160-QFP	MCF5206EAB40-ND◊ ***NEW!***	17.16	12.98	11.97	MCF5206EAB40
	8K	—	2	2 Asynch.	—	—	3.3	54	0 ~ 70	160-QFP	MCF5206EAB54-ND◊ ***NEW!***	19.50	15.30	14.41	MCF5206EAB54
8K	4K	—	2	I2C, UART	—	—	3.3	66	-40 ~ 85	208-FQFP	MCF5307CAI66B-ND◊ ***NEW!***	30.92	24.26	22.85	MCF5307CAI66B
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	80	-40 ~ 85	160-QFP	MCF5232CAB80-ND	19.66	15.42	14.53	MCF5232CAB80
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	100	-40 ~ 85	196-MAPBGA	MCF5232CVM100-ND	19.66	15.42	14.53	MCF5232CVM100
	64K	—	24	3 Asynch., QSPI, CAN 2.0b	—	—	1.5, 3.3	150	-40 ~ 85	196-MAPBGA	MCF5232CVM150-ND	26.00	20.40	19.22	MCF5232CVM150
	64K	—	40	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	100	-40 ~ 85	256-MAPBGA	MCF5233CVM100-ND	26.53	20.81	19.60	MCF5233CVM100
	64K	—	40	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	150	-40 ~ 85	256-MAPBGA	MCF5233CVM150-ND	32.87	25.79	24.29	MCF5233CVM150
	64K	—	24	3 Asynch. QSPI, IIC	—	—	1.5, 3.3	100	-40 ~ 85	256-MAPBGA	MCF5234CVM100-ND	25.55	20.04	18.88	MCF5234CVM100
	64K	—	24	3 Asynch, QSPI, IIC	—	—	1.5, 3.3	150	-40 ~ 85	256-MAPBGA	MCF5234CVM150-ND	31.89	25.02	23.56	MCF5234CVM150
	64K	—	24	3 Asynch., QSPI, 2-CAN 2.0b	—	—	1.5, 3.3	100	-40 ~ 85	256-MAPBGA	MCF5235CVM100-ND	29.48	23.13	21.79	MCF5235CVM100
	64K	—	24	3 Asynch., QSPI, 2-CAN 2.0b, IIC	—	—	1.5, 3.3	150	-40 ~ 85	256-MAPBGA	MCF5235CVM150-ND	35.83	27.23	26.47	MCF5235CVM150
	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	0 ~ 70	160-QFP	MCF5270AB100-ND	15.70	11.88	10.95	MCF5270AB100
	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	-40 ~ 85	196-MAPBGA	MCF5271CVM100-ND	18.24	14.31	13.48	MCF5271CVM100
	64K	—	8	3 Asynch., QSPI, IIC	—	—	1.5, 3.3	100	-40 ~ 85	160-QFP	MCF5271CAB100-ND	18.24	14.31	13.48	MCF5271CAB100
	96K	—	2	I2C, UART	—	—	3.3	140	-40 ~ 85	160-BGA	MCF5249VM140-ND◊ ***NEW!***	18.84	14.78	13.92	MCF5249VM140
	96K	—	2	I2C, UART	—	—	3.3	120	-40 ~ 85	144-LQFP	MCF5249LCAG120-ND◊ ***NEW!***	18.85	14.79	13.93	MCF5249LCAG120
	96K	—	2	I2C, UART	—	—	3.3	120	-40 ~ 85	144-LQFP	MCF5249LAG120-ND◊ ***NEW!***	17.90	14.05	13.23	MCF5249LAG120
	96K	—	2	I2C, UART	—	—	3.3	140	-40 ~ 85	160-MAPBGA	MCF5249CVM140-ND◊ ***NEW!***	19.75	15.49	14.59	MCF5249CVM140
16K	64K	—	8	3 Asynch., QSPI, IIC	—	4-Ch.	1.5, 2.5, 3.3	166	0 ~ 70	196-MAPBGA	MCF5274LVM166-ND	17.25	13.05	12.03	MCF5274LVM166
	64K	—	8	3 Asynch., QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	0 ~ 70	256-MAPBGA	MCF5274VM166-ND	19.68	15.44	14.54	MCF5274VM166
	64K	—	8	3 Asynch., QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	-40 ~ 85	196-MAPBGA	MCF5275LCVM166-ND	19.68	15.44	14.54	MCF5275LCVM166
	64K	—	8	3 Asynch, QSPI, IIC, USB 2.0	—	4-Ch.	1.5, 2.5, 3.3	166	-40 ~ 85	256-MAPBGA	MCF5275CVM166-ND	23.53	18.46	17.39	MCF5275CVM166
24K	4K	—	2	I2C, UART	—	—	3.3	220	-40 ~ 85	208-FQFP	MCF5407CAI220-ND◊ ***NEW!***	55.91	46.57	43.81	MCF5407CAI220
	4K	—	2	I2C, UART	—	—	3.3	162	-40 ~ 85	208-FQFP	MCF5407CAI162-ND◊ ***NEW!***	49.45	41.19	38.75	MCF5407CAI162
	4K	—	2	I2C, UART	—	—	3.3	220	-40 ~ 85	208-FQFP	MCF5407AI220-ND◊ ***NEW!***	49.45	41.19	38.75	MCF5407AI220
	4K	—	2	I2C, UART	—	—	3.3	162	-40 ~ 85	208-FQFP	MCF5407AI162-ND◊ ***NEW!***	40.83	34.01	32.00	MCF5407AI162
64K	64K	512K	8-16 Bit	I2C, UART	—	—	5.0	66	-40 ~ 85	256-BGA	MCF5282CVM66-ND◊ ***NEW!***	34.05	26.71	25.16	MCF5282CVM66
	64K	512K	8-16 Bit	I2C, UART	—	—	5.0	80	-40 ~ 85	256-BGA	MCF5282CVM80-ND◊ ***NEW!***	40.87	31.06	30.20	MCF5282CVM80
	32K	—	6	4 Asynch., SPI, IIC	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5471ZP200-ND	40.57	30.83	29.98	MCF5471ZP200
	32K	—	6	4 Asynch., SPI, IIC	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5471VR200-ND◊ ***NEW!***	39.36	29.91	29.08	MCF5471VR200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5472ZP200-ND	34.47	27.04	25.47	MCF5472ZP200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5472VR200-ND◊ ***NEW!***	33.44	26.23	24.71	MCF5472VR200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5473ZP200-ND	40.57	30.83	29.98	MCF5473ZP200

*4-Channel DMA ◊ ***RoHS Compliant***

(Continued)

32-Bit Microcontrollers *(Cont.)*

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
												1	25	100	
64K	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5473VR200-ND◊ ***NEW!***	39.36	29.91	29.08	MCF5473VR200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5474ZP200-ND	38.64	29.36	28.55	MCF5474ZP200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5474VR200-ND◊ ***NEW!***	37.49	28.49	27.70	MCF5474VR200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	266	0 ~ 70	388-PBGA	MCF5474ZP266-ND	40.57	30.83	29.98	MCF5474ZP266
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	266	0 ~ 70	388-PBGA	MCF5474VR266-ND◊ ***NEW!***	39.36	29.91	29.08	MCF5474VR266
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5475ZP200-ND	40.83	34.01	32.00	MCF5475ZP200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5475VR200-ND◊ ***NEW!***	39.59	32.98	31.03	MCF5475VR200
	32K	—	6	4 Asynch., SPI, IIC, USB 2.0	—	—	1.5, 2.5, 3.3	266	0 ~ 70	388-PBGA	MCF5475VR266-ND◊ ***NEW!***	41.31	34.41	32.37	MCF5475VR266
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5480CZP166-ND	40.55	30.82	29.96	MCF5480CZP166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5480CVR166-ND◊ ***NEW!***	39.34	29.90	29.07	MCF5480CVR166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5481CZP166-ND	42.58	35.46	33.36	MCF5481CZP166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5481CVR166-ND◊ ***NEW!***	41.29	34.39	32.36	MCF5481CVR166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5482CZP166-ND	40.55	30.82	29.96	MCF5482CZP166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5482CVR166-ND◊ ***NEW!***	39.34	29.90	29.07	MCF5482CVR166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5483CZP166-ND	42.58	35.46	33.36	MCF5483CZP166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	166	-40 ~ 85	388-PBGA	MCF5483CVR166-ND◊ ***NEW!***	41.29	34.39	32.36	MCF5483CVR 166
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	200	-40 ~ 85	388-PBGA	MCF5484CVR200-ND◊ ***NEW!***	42.24	35.18	33.10	MCF5484CVR200
	32K	—	6	4 Asynch., SPI, IIC, 2-CAN, USB 2.0	—	—	1.5, 2.5, 3.3	200	-40 ~ 85	388-PBGA	MCF5485CVR200-ND◊ ***NEW!***	47.64	39.68	37.33	MCF5485CVR200
	32K	—	6	4 Asynch., SPI, IIC	—	—	1.5, 2.5, 3.3	200	0 ~ 70	388-PBGA	MCF5470VR200-ND◊ ***NEW!***	33.44	26.23	24.71	MCF5470VR200
—	512	—	2	2 Asynch.	—	—	5.0	16	0 ~ 70	160-QFP	MCF5206FT16A-ND	22.30	17.49	16.48	MCF5206FT16A
	512	—	2	2 Asynch.	—	—	5.0	25	0 ~ 70	160-QFP	MCF5206FT25A-ND	24.39	19.13	18.02	MCF5206FT25A
	512	—	2	2 Asynch.	—	—	5.0	33	0 ~ 70	160-QFP	MCF5206FT33A-ND	27.73	21.75	20.49	MCF5206FT33A
	4K	—	2	2 Asynch.	—	—	3.3	66	0 ~ 70	208-FQFP	MCF5307FT66B-ND*	25.16	19.74	18.59	MCF5307FT66B
	4K	—	2	2 Asynch.	—	—	3.3	66	0 ~ 70	208-FQFP	MCF5307AI66B-ND*◊ ***NEW!***	25.16	19.74	18.59	MCF5307AI66B
	4K	—	2	2 Asynch.	—	—	3.3	90	0 ~ 70	208-FQFP	MCF5307AI90B-ND*◊ ***NEW!***	33.14	25.99	24.49	MCF5307AI90B
PowerPC Processors															
8K	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	100	-40 ~ 85	256-PBGA	MPC852TCVR100A-ND	26.85	21.06	19.84	MPC852TCVR100A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	50	-40 ~ 85	256-PBGA	MPC852TCVR50A-ND	18.27	14.34	13.50	MPC852TCVR50A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC852TCVR66A-ND	20.66	16.21	15.27	MPC852TCVR66A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC852TCVR80A-ND	23.33	18.30	17.24	MPC852TCVR80A
	—	—	2-16 Bit	PCMCIA, SCC, SMC SPI	—	—	3.3	100	-40 ~ 85	256-PBGA	MPC852TCZT100A-ND	26.85	21.06	19.84	MPC852TCZT100A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	50	-40 ~ 85	256-PBGA	MPC852TCZT50A-ND	18.27	14.34	13.50	MPC852TCZT50A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC852TCZT80A-ND	23.33	18.30	17.24	MPC852TCZT80A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	100	-40 ~ 85	256-PBGA	MPC852TVR100A-ND	24.86	19.50	18.37	MPC852TVR100A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	50	-40 ~ 85	256-PBGA	MPC852TVR50A-ND	18.44	13.95	12.86	MPC852TVR50A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC852TVR80A-ND	21.61	16.95	15.97	MPC852TVR80A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	50	-40 ~ 85	256-PBGA	MPC852TZT50A-ND	18.44	13.95	12.86	MPC852TZT50A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC852TVR66A-ND◊ ***NEW!***	19.13	15.01	14.14	MPC852TVR66A
	—	—	2-16 Bit	PCMCIA, SCC, SMC, SPI	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC852TZT80A-ND	21.61	16.95	15.97	MPC852TZT80A
	—	—	—	PCMCIA, SPI	—	—	3.3	66	0 ~ 105	256-PBGA	MPC853TVR66A-ND◊ ***NEW!***	21.07	16.53	15.57	MPC853TVR66A
	—	—	—	PCMCIA, SPI	—	—	3.3	100	0 ~ 105	256-PBGA	MPC853TVR100A-ND◊ ***NEW!***	26.79	21.02	19.80	MPC853TVR100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC855TCVR50D4-ND◊ ***NEW!***	43.75	33.25	32.33	MPC855TCVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 115	357-PBGA	MPC855TCVR66D4-ND◊ ***NEW!***	44.66	37.20	35.00	MPC855TCVR66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC855TCZQ50D4-ND	43.75	33.25	32.33	MPC855TCZQ50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	0 ~ 105	357-PBGA	MPC855TVR50D4-ND◊ ***NEW!***	40.52	30.79	29.94	MPC855TVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	0 ~ 105	357-PBGA	MPC855TVR66D4-ND◊ ***NEW!***	41.36	34.45	32.41	MPC855TVR66D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	80	-40 ~ 105	357-PBGA	MPC855TVR80D4-ND◊ ***NEW!***	46.42	38.67	36.38	MPC855TVR80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC855TZQ80D4-ND	46.42	38.67	36.38	MPC855TZQ80D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 105	357-PBGA	MPC857DSLVR50B-ND◊ ***NEW!***	33.38	26.19	24.67	MPC857DSLVR50B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC857DSLVR66B-ND◊ ***NEW!***	36.72	27.91	27.13	MPC857DSLVR66B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC857DSLCVR66B-ND◊ ***NEW!***	39.66	30.14	29.30	MPC857DSLCVR66B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC857TCVR66B-ND◊ ***NEW!***	52.32	43.58	41.00	MPC857TCVR66B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC857TCVR80B-ND◊ ***NEW!***	57.77	48.12	45.27	MPC857TCVR80B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 105	357-PBGA	MPC857TVR50B-ND◊ ***NEW!***	44.03	36.68	34.51	MPC857TVR50B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC857TVR66B-ND◊ ***NEW!***	48.44	40.35	37.96	MPC857TVR66B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	80	-40 ~ 105	357-PBGA	MPC857TVR80B-ND◊ ***NEW!***	53.49	44.55	41.92	MPC857TVR80B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	100	-40 ~ 105	357-PBGA	MPC857TVR100B-ND◊ ***NEW!***	63.30	52.72	49.60	MPC857TVR100B
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC859DSLCZP50A-ND	30.73	24.11	22.71	MPC859DSLCZP50A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC859DSLCVR50A-ND◊ ***NEW!***	30.75	24.12	22.72	MPC859DSLCVR50A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC859DSLCZP66A-ND	34.21	26.83	25.28	MPC859DSLCZP66A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC859DSLCVR66A-ND◊ ***NEW!***	34.21	26.83	25.28	MPC859DSLCVR66A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC859DSLZP50A-ND	28.46	22.33	21.03	MPC859DSLZP50A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC859DSLVR50A-ND◊ ***NEW!***	28.46	22.33	21.03	MPC859DSLVR50A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC859DSLZP66A-ND	31.68	24.85	23.41	MPC859DSLZP66A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC859DSLVR66A-ND◊ ***NEW!***	31.68	24.85	23.41	MPC859DSLVR66A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC859TCZP100A-ND	50.29	41.88	39.41	MPC859TCZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC859TCVR100A-ND◊ ***NEW!***	50.29	41.88	39.41	MPC859TCVR100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC859TZP100A-ND	46.57	38.79	36.49	MPC859TZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC859TVR100A-ND◊ ***NEW!***	46.57	38.79	36.49	MPC859TVR100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC859TVR133A-ND◊ ***NEW!***	50.98	42.46	39.95	MPC859TVR133A
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860DECVR50D4-ND◊ ***NEW!***	59.42	49.49	46.56	MPC860DECVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC860DECVR66D4-ND◊ ***NEW!***	65.37	52.94	51.22	MPC860DECVR66D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 105	357-PBGA	MPC860DEVR50D4-ND◊ ***NEW!***	55.01	45.82	43.11	MPC860DEVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC860DEVR66D4-ND◊ ***NEW!***	60.53	50.41	47.43	MPC860DEVR66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860DEVR80D4-ND◊ ***NEW!***	72.63	58.82	56.91	MPC860DEVR80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860DEZQ50D4-ND	55.01	45.82	43.11	MPC860DEZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860DEZQ80D4-ND	72.63	58.82	56.91	MPC860DEZQ80D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860DTCVR50D4-ND◊ ***NEW!***	65.55	53.08	51.36	MPC860DTCVR50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860DTVR50D4-ND◊ ***NEW!***	60.69	50.55	47.56	MPC860DTVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC860DTVR66D4-ND◊ ***NEW!***	66.19	53.60	51.87	MPC860DTVR66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860DTVR80D4-ND◊ ***NEW!***	78.29	63.40	61.35	MPC860DTVR80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860DTZQ50D4-ND	60.69	50.55	47.56	MPC860DTZQ50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860ENCVR50D4-ND◊ ***NEW!***	71.65	58.03	56.15	MPC860ENCVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC860ENCVR66D4-ND◊ ***NEW!***	77.60	62.84	60.81	MPC860ENCVR66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860ENCZQ50D4-ND	71.65	58.03	56.15	MPC860ENCZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860ENZQ50D4-ND	66.35	53.73	51.99	MPC860ENZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860ENZQ80D4-ND	79.39	67.98	64.26	MPC860ENZQ80D4

*4-Channel DMA ◊ ***RoHS Compliant***

(Continued)

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
												1	25	100	
8K	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 105	357-PBGA	MPC860ENVR50D4-ND◊ ***NEW!***	66.35	53.73	51.99	MPC860ENVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC860ENVR66D4-ND◊ ***NEW!***	71.85	58.18	56.30	MPC860ENVR66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860ENVR80D4-ND◊ ***NEW!***	84.68	67.98	64.26	MPC860ENVR80D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860SRCVR50D4-ND◊ ***NEW!***	77.78	62.98	60.95	MPC860SRCVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC860SRCVR66D4-ND◊ ***NEW!***	84.44	67.79	64.08	MPC860SRCVR66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860SRVR50D4-ND◊ ***NEW!***	72.01	58.31	56.42	MPC860SRVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC860SRVR66D4-ND◊ ***NEW!***	77.52	62.78	60.75	MPC860SRVR66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860SRVR80D4-ND◊ ***NEW!***	90.41	72.58	68.61	MPC860SRVR80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860SRZQ50D4-ND	72.01	58.31	56.42	MPC860SRZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860SRZQ80D4-ND	84.76	72.58	68.61	MPC860SRZQ80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860TCVR50D4-ND◊ ***NEW!***	77.78	62.98	60.95	MPC860TCVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 115	357-PBGA	MPC860TCVR66D4-ND◊ ***NEW!***	84.44	67.79	64.08	MPC860TCVR66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860TVR50D4-ND◊ ***NEW!***	72.01	58.31	56.42	MPC860TVR50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC860TVR66D4-ND◊ ***NEW!***	77.52	62.78	60.75	MPC860TVR66D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	80	0 ~ 105	357-PBGA	MPC860TVR80D4-ND◊ ***NEW!***	90.41	72.58	68.61	MPC860TVR80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860TZQ50D4-ND	72.01	58.31	56.42	MPC860TZQ50D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC860TZQ66D4-ND	77.52	62.78	60.75	MPC860TZQ66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860TZQ80D4-ND	84.76	72.58	68.61	MPC860TZQ80D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 115	357-PBGA	MPC862TCVR50B-ND◊ ***NEW!***	81.77	65.64	62.05	MPC862TCVR50B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 115	357-PBGA	MPC862TCVR66B-ND◊ ***NEW!***	88.68	71.19	67.29	MPC862TCVR66B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	80	-40 ~ 115	357-PBGA	MPC862TCVR80B-ND◊ ***NEW!***	102.53	82.31	77.81	MPC862TCVR80B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	5.0	100	-40 ~ 85	357-PBGA	MPC866PCVR100A-ND◊ ***NEW!***	87.58	70.30	66.46	MPC866PCVR100A
	—	—	4-16 Bit	PCMCIA, SPI	—	—	5.0	100	-40 ~ 105	357-PBGA	MPC866PVR100A-ND◊ ***NEW!***	78.93	63.92	61.85	MPC866PVR100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC866TCZP100A-ND	76.89	65.84	62.24	MPC866TCZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC866TCVR100A-ND◊ ***NEW!***	82.01	65.84	62.24	MPC866TCVR100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC866TZP100A-ND	73.91	59.86	57.92	MPC866TZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC866TVR100A-ND◊ ***NEW!***	73.91	59.86	57.92	MPC866TVR100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC866TZP133A-ND	78.93	63.92	61.85	MPC866TZP133A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC866TVR133A-ND◊ ***NEW!***	78.93	63.92	61.85	MPC866TVR133A
16K	—	—	4-16 Bit	I2C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860DECVR50D4R2CT-ND◊ ***NEW!***	59.42	49.49	46.56	MC860DECVR50D4R2
	—	—	4-16 Bit	I2C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860DECVR50D4R2TR-ND◊ ***NEW!***	8187.28/180			MC860DECVR50D4R2
	—	—	4-16 Bit	I2C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860ENCVR50D4R2CT-ND◊ ***NEW!***	71.65	58.03	56.15	MC860ENCVR50D4R2
	—	—	4-16 Bit	I2C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860ENCVR50D4R2TR-ND◊ ***NEW!***	9872.44/180			MC860ENCVR50D4R2
	—	—	4-16 Bit	I2C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860SRCVR50D4R2CT-ND◊ ***NEW!***	77.78	62.98	60.95	MC860SRCVR50D4R2
	—	—	4-16 Bit	I2C, SPI, TDM, IrDA	—	—	3.3	50	-40 ~ 105	357-PBGA	MC860SRCVR50D4R2TR-ND◊ ***NEW!***	10716.13/180			MC860SRCVR50D4R2
	—	—	—	60X	—	—	2.5	200	-40 ~ 85	255-PBGA	MPC603RZT200LC-ND	41.13	34.26	32.23	MPC603RZT200LC
	—	—	—	60X	—	—	2.5	300	-40 ~ 85	256-CBGA	MPC603RRX300LC-ND	82.32	—	—	MPC603RRX300LC
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~ 85	256-PBGA	MPC870CZT133-ND	23.67	18.57	17.49	MPC870CZT133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~ 85	256-PBGA	MPC870CVR133-ND◊ ***NEW!***	23.67	18.57	17.49	MPC870CVR133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC870CVR66-ND◊ ***NEW!***	21.45	16.83	15.85	MPC870CVR66
	—	—	4 -16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~85	256-PBGA	MPC870ZT133-ND	21.91	17.19	16.19	MPC870ZT133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~85	256-PBGA	MPC870VR133-ND◊ ***NEW!***	21.91	17.19	16.19	MPC870VR133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC870ZT66-ND	19.87	15.59	14.69	MPC870ZT66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC870VR66-ND◊ ***NEW!***	19.87	15.59	14.69	MPC870VR66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC870VR80-ND◊ ***NEW!***	20.87	16.38	15.43	MPC870VR80
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~ 85	256-PBGA	MPC875CVR133-ND◊ ***NEW!***	32.91	25.81	24.32	MPC875CVR133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC875CVR66-ND◊ ***NEW!***	29.83	23.40	22.04	MPC875CVR66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~ 85	256-PBGA	MPC875VR133-ND◊ ***NEW!***	30.47	23.90	22.51	MPC875VR133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	256-PBGA	MPC875VR66-ND◊ ***NEW!***	27.62	21.67	20.41	MPC875VR66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	80	-40 ~ 85	256-PBGA	MPC875VR80-ND◊ ***NEW!***	29.01	22.76	21.43	MPC875VR80
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC880CZP133-ND	42.13	32.02	31.13	MPC880CZP133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC880CVR133-ND◊ ***NEW!***	42.13	32.02	31.13	MPC880CVR133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC880CZP66-ND	38.21	29.04	28.24	MPC880CZP66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC880CVR66-ND◊ ***NEW!***	38.21	29.04	28.24	MPC880CVR66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC880VR133-ND◊ ***NEW!***	39.01	29.64	28.82	MPC880VR133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC880ZP66-ND	35.39	26.89	26.15	MPC880ZP66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC880VR66-ND◊ ***NEW!***	35.39	26.89	26.15	MPC880VR66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC880ZP80-ND	37.14	28.23	27.44	MPC880ZP80
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC880VR80-ND◊ ***NEW!***	37.14	28.23	27.44	MPC880VR80
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC885CZP133-ND	46.84	39.01	36.71	MPC885CZP133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC885CVR133-ND◊ ***NEW!***	46.84	39.01	36.71	MPC885CVR133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC885CVR66-ND◊ ***NEW!***	42.50	35.40	33.30	MPC885CVR66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC885ZP133-ND	43.38	36.13	33.99	MPC885ZP133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC885VR133-ND◊ ***NEW!***	43.38	36.13	33.99	MPC885VR133
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC885ZP66-ND	43.13	32.78	31.87	MPC885ZP66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC885VR66-ND◊ ***NEW!***	43.13	32.78	31.87	MPC885VR66
	—	—	4-16 Bit	PCMCIA, I2C, SPI, USB	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC885VR80-ND◊ ***NEW!***	41.31	34.41	32.37	MPC885VR80
24K	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC859PCZP100A-ND	55.46	46.20	43.46	MPC859PCZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC859PCVR100A-ND◊ ***NEW!***	55.46	46.20	43.46	MPC859PCVR100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC859PZP100A-ND	51.36	42.78	40.25	MPC859PZP100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	100	-40 ~ 85	357-PBGA	MPC859PVR100A-ND◊ ***NEW!***	51.36	42.78	40.25	MPC859PVR100A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC859PZP133A-ND	56.36	46.94	44.17	MPC859PZP133A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC859PVR133A-ND◊ ***NEW!***	56.36	46.94	44.17	MPC859PVR133A
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860DPCVR50D4-ND◊ ***NEW!***	74.72	60.50	58.55	MPC860DPCVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC860DPCVR66D4-ND◊ ***NEW!***	81.37	65.32	61.75	MPC860DPCVR66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860DPCZQ50D4-ND	74.72	60.50	58.55	MPC860DPCZQ50D4
	—	—	4-16 bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 105	357-PBGA	MPC860DPVR50D4-ND◊ ***NEW!***	69.19	56.03	54.21	MPC860DPVR50D4
	—	—	4-16 bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC860DPVR66D4-ND◊ ***NEW!***	74.68	60.48	58.52	MPC860DPVR66D4
	—	—	4-16 bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860DPVR80D4-ND◊ ***NEW!***	87.54	70.28	66.43	MPC860DPVR80D4
	—	—	4-16 bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860DPZQ50D4-ND	69.19	56.03	54.21	MPC860DPZQ50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860PCVR50D4-ND◊ ***NEW!***	87.71	70.41	66.56	MPC860PCVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 85	357-PBGA	MPC860PCVR66D4-ND◊ ***NEW!***	93.71	75.22	71.11	MPC860PCVR66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860PCZQ50D4-ND	82.23	70.41	66.56	MPC860PCZQ50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	-40 ~ 105	357-PBGA	MPC860PVR50D4-ND◊ ***NEW!***	81.21	65.19	61.62	MPC860PVR50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 105	357-PBGA	MPC860PVR66D4-ND◊ ***NEW!***	86.77	69.66	65.85	MPC860PVR66D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	80	-40 ~ 85	357-PBGA	MPC860PVR80D4-ND◊ ***NEW!***	98.98	79.46	75.11	MPC860PVR80D4
	—	—	4-16 Bit	PCMCIA, I2C, SPI	—	—	3.3	50	-40 ~ 85	357-PBGA	MPC860PZQ50D4-ND	76.13	65.19	61.62	MPC860PZQ50D4
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	-40 ~ 115	357-PBGA	MPC862PCVR66B-ND◊ ***NEW!***	98.39	78.99	74.67	MPC862PCVR66B

*4-Channel DMA ◊ ***RoHS Compliant***

(Continued)

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
												1	25	100	
24K	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	80	-40 ~ 115	357-PBGA	MPC862PCVR80B-ND◊ ***NEW!***	112.24	90.10	85.17	MPC862PCVR80B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	50	0 ~ 105	357-PBGA	MPC862PVR50B-ND◊ ***NEW!***	85.26	68.45	64.70	MPC862PVR50B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	66	0 ~ 105	357-PBGA	MPC862PVR66B-ND◊ ***NEW!***	91.10	73.13	69.13	MPC862PVR66B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	80	0 ~ 105	357-PBGA	MPC862PVR80B-ND◊ ***NEW!***	103.92	83.43	78.86	MPC862PVR80B
	—	—	4-16 Bit	PCMCIA, SPI	—	—	3.3	100	0 ~ 105	357-PBGA	MPC862PVR100B-ND◊ ***NEW!***	112.24	90.10	85.17	MPC862PVR100B
	—	—	4-16 Bit	I2C, UART	—	—	5.0	50	-40 ~ 105	357-PBGA	MPC862TVR50B-ND◊ ***NEW!***	73.69	59.67	57.74	MPC862TVR50B
	—	—	4-16 Bit	I2C, UART	—	—	5.0	66	-40 ~ 105	357-PBGA	MPC862TVR66B-ND◊ ***NEW!***	82.11	65.92	62.31	MPC862TVR66B
	—	—	4-16 Bit	I2C, UART	—	—	5.0	80	-40 ~ 105	357-PBGA	MPC862TVR80B-ND◊ ***NEW!***	94.93	76.21	72.04	MPC862TVR80B
	—	—	4-16 Bit	I2C, UART	—	—	5.0	100	-40 ~ 105	357-PBGA	MPC862TVR100B-ND◊ ***NEW!***	105.77	84.91	80.26	MPC862TVR100B
	—	—	4-16 Bit	PCMCIA, 12C,SPI	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC866PZP133A-ND	81.80	70.04	66.21	MPC866PZP133A
	—	—	4-16 Bit	PCMCIA, 12C,SPI	—	—	3.3	133	-40 ~ 85	357-PBGA	MPC866PVR133A-ND◊ ***NEW!***	87.25	70.04	66.21	MPC866PVR133A
32K	—	—	—	QSMCM	—	—	3.3	40	-40 ~ 105	272-PBGA	MPC555LFCVR40-ND◊ ***NEW!***	79.60	64.46	62.38	MPC555LFCVR40
	—	448K	50-Ch.	QSMCM	2 QADC64	8	3.3	40	-40 ~ 85	272-PBGA	MPC555LFMVR40-ND◊ ***NEW!***	88.34	70.91	67.04	MPC555LFMVR40
	—	—	—	60X	—	—	2.6, 3.3	233	-40 ~ 85	256-CBGA	MPC740ARX233LH-ND	40.84	—	—	MPC740ARX233LH
	—	—	—	60X	—	—	2.6, 3.3	266	-40 ~ 85	256-CBGA	MPC740ARX266LH-ND	89.73	—	—	MPC740ARX266LH
	—	—	—	SPI, I2C	—	—	3.3	266	-40 ~ 105	272-PBGA	MPC5200CVR266-ND◊ ***NEW!***	48.38	40.30	37.91	MPC5200CVR266
	—	—	8-Ch.	IIC, SPI, CAN 2.0, USB 1.1	—	See Timer	3.3	400	-40 ~ 85	272-PBGA	MPC5200CVR400-ND◊ ***NEW!***	51.54	42.93	40.39	MPC5200CVR400
	—	—	—	SPI, I2C	—	—	3.3	400	-40 ~ 85	272-PBGA	MPC5200VR400-ND◊ ***NEW!***	49.02	40.83	38.41	MPC5200VR400
	—	—	4-Ch.	DUART, IIC	—	—	3.3	166	-40 ~ 85	357-PBGA	MPC8241LVR166D-ND◊ ***NEW!***	26.57	20.84	19.63	MPC8241LVR166D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	200	-40 ~ 85	357-PBGA	MPC8241LVR200D-ND◊ ***NEW!***	29.94	23.49	22.12	MPC8241LVR200D
	—	—	—	I2C	—	—	3.3	266	0 ~ 105	357-PBGA	MPC8241LVR266D-ND◊ ***NEW!***	37.72	28.67	27.87	MPC8241LVR266D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	400	-40 ~ 85	352-TBGA	MPC8245ARVV400D-ND◊ ***NEW!***	91.64	73.56	69.54	MPC8245ARVV400D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	266	-40 ~ 85	352-TBGA	MPC8245LVV266D-ND◊ ***NEW!***	53.51	44.57	41.93	MPC8245LVV266D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	300	-40 ~ 85	352-TBGA	MPC8245LVV300D-ND◊ ***NEW!***	63.64	53.00	49.87	MPC8245LVV300D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	333	-40 ~ 85	352-TBGA	MPC8245LVV333D-ND◊ ***NEW!***	67.29	54.49	52.73	MPC8245LVV333D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	350	-40 ~ 85	352-TBGA	MPC8245LVV350D-ND◊ ***NEW!***	79.24	64.16	62.09	MPC8245LVV350D
	—	—	4-Ch.	DUART, IIC	—	—	3.3	266	-40 ~ 85	352-TBGA	MPC8245TVV266D-ND◊ ***NEW!***	69.57	56.34	54.52	MPC8245TVV266D
	—	—	—	I2C	—	—	3.3	300	0 ~ 105	352-TBGA	MPC8245TVV300D-ND◊ ***NEW!***	83.45	66.99	63.33	MPC8245TVV300D
	—	—	—	I2C	—	—	3.3	333	-40 ~ 115	352-TBGA	MPC8245TVV333D-ND◊ ***NEW!***	88.24	70.84	66.96	MPC8245TVV333D
	—	—	—	I2C	—	—	3.3	350	-40 ~ 115	352-TBGA	MPC8245TVV350D-ND◊ ***NEW!***	103.91	83.41	78.85	MPC8245TVV350D
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8247CVRMIBA-ND◊ ***NEW!***	36.71	30.58	28.77	MPC8247CVRMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8247CVRPIEA-ND◊ ***NEW!***	41.49	34.55	32.51	MPC8247CVRPIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8247CVRTIEA-ND◊ ***NEW!***	49.79	41.47	39.02	MPC8247CVRTIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8247VRMIBA-ND◊ ***NEW!***	36.58	27.80	27.03	MPC8247VRMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8247VRPIEA-ND◊ ***NEW!***	37.72	31.42	29.56	MPC8247VRPIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8247VRTIEA-ND◊ ***NEW!***	45.25	37.69	35.46	MPC8247VRTIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8247VRTMFA-ND◊ ***NEW!***	50.69	42.22	39.72	MPC8247VRTMFA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8248CVRMIBA-ND◊ ***NEW!***	38.50	32.07	30.17	MPC8248CVRMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8248CVRPIEA-ND◊ ***NEW!***	43.52	36.25	34.11	MPC8248CVRPIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8248CVRTIEA-ND◊ ***NEW!***	52.23	43.50	40.93	MPC8248CVRTIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8248VRMIBA-ND◊ ***NEW!***	35.01	29.16	27.44	MPC8248VRMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8248VRPIEA-ND◊ ***NEW!***	39.56	32.95	31.00	MPC8248VRPIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8248VRTIEA-ND◊ ***NEW!***	47.48	39.55	37.21	MPC8248VRTIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8248VRTMFA-ND◊ ***NEW!***	53.17	44.29	41.67	MPC8248VRTMFA
	—	—	4-Ch.	SPI, I2C, TDM, UTOPIA	—	—	3.3	300	-40 ~ 115	516-PBGA	MPC8250ACVRIHBC-ND◊ ***NEW!***	66.28	53.68	51.94	MPC8250ACVRIHBC
	—	—	4-Ch.	SPI, I2C, TDM, UTOPIA	—	—	3.3	300	0 ~ 105	516-PBGA	MPC8250AVRIHBC-ND◊ ***NEW!***	60.26	50.19	47.22	MPC8250AVRIHBC
	—	—	4-Ch.	IIC, MII, SPI, UART	—	—	3.3	200	0 ~ 105	480-TBGA	MPC8250AVVMHBC-ND◊ ***NEW!***	103.62	83.18	78.63	MPC8250AVVMHBC
	—	—	4-Ch.	IIC, MII, SPI, UART	—	—	3.3	200	0 ~ 105	480-TBGA	MPC8250AVVPIBC-ND◊ ***NEW!***	113.98	91.50	86.50	MPC8250AVVPIBC
	—	—	4-Ch.	IIC, MII, SPI, UART	—	—	3.3	200	0 ~ 105	480-TBGA	MPC8250AZUPIBC-ND	106.86	91.50	86.50	MPC8250AZUPIBC
	—	—	4-Ch.	SPI, I2C, TDM, UTOPIA	—	—	3.3	300	-40 ~ 115	480-TBGA	MPC8255ACVVMIBB-ND◊ ***NEW!***	144.24	115.79	109.45	MPC8255ACVVMIBB
	—	—	4-Ch.	SPI, I2C, TDM, UTOPIA	—	—	3.3	300	-40 ~ 115	480-TBGA	MPC8255ACVVMHBB-ND◊ ***NEW!***	144.24	115.79	109.45	MPC8255ACVVMHBB
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA	—	—	3.3	300	0 ~ 105	480-TBGA	MPC8255AVVMHBB-ND◊ ***NEW!***	131.12	105.26	99.50	MPC8255AVVMHBB
	—	—	4-Ch.	SPI, I2C, TDM, UTOPIA	—	—	3.3	300	0 ~ 105	480-TBGA	MPC8255AVVPIBB-ND◊ ***NEW!***	144.24	115.79	109.45	MPC8255AVVPIBB
	—	—	4-16 Bit	I2C, MII, SPI, TDM	—	—	3.3	300	-40 ~ 85	480-TBGA	MPC8260ACVVMHBB-ND◊ ***NEW!***	146.39	126.99	121.32	MPC8260ACVVMHBB
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA	—	—	3.3	300	-40 ~ 105	480-TBGA	MPC8260ACVVMIBB-ND◊ ***NEW!***	152.91	132.64	126.72	MPC8260ACVVMIBB
	—	—	4-16 Bit	I2C, MII, SPI, TDM	—	—	3.3	300	-40 ~ 85	480-TBGA	MPC8260AVVMHBB-ND◊ ***NEW!***	148.55	119.25	112.73	MPC8260AVVMHBB
	—	—	4-Ch.	SPI, I2C, TDM, UTOPIA	—	—	3.3	300	0 ~ 105	480-TBGA	MPC8260AVVPIBB-ND◊ ***NEW!***	146.39	126.99	121.32	MPC8260AVVPIBB
	—	—	4-16 Bit	I2C, MII, SPI, TDM	—	—	3.3	300	-40 ~ 85	480-TBGA	MPC8260AVVPJDB-ND◊ ***NEW!***	168.26	145.95	139.44	MPC8260AVVPJDB
	—	—	4-16 Bit	I2C, MII, SPI, TDM	—	—	3.3	300	-40 ~ 85	480-TBGA	MPC8260AZUMHBB-ND	139.27	—	—	MPC8260AZUMHBB
	—	—	4-16 Bit	I2C, MII, SPI, TDM	—	—	3.3	300	-40 ~ 85	480-TBGA	MPC8260AZUPJDB-ND	168.26	—	—	MPC8260AZUPJDB
	—	—	4-Ch.	SPI, I2C, TDM, UTOPIA	—	—	3.3	300	-40 ~ 115	480-TBGA	MPC8264ACVVMIBB-ND◊ ***NEW!***	192.15	166.68	159.24	MPC8264ACVVMIBB
	—	—	4-Ch.	SPI, I2C, TDM, UTOPIA	—	—	3.3	300	0 ~ 105	480-TBGA	MPC8264AVVMHBB-ND◊ ***NEW!***	167.10	144.95	138.48	MPC8264AVVMHBB
	—	—	4-16 Bit	I2C, MII, SPI, TDM	—	—	3.3	300	-40 ~ 85	480-TBGA	MPC8264AVVPIBB-ND◊ ***NEW!***	183.90	159.52	152.40	MPC8264AVVPIBB
	—	—	4-Ch.	SPI, I2C, TDM, UTOPIA	—	—	3.3	300	0 ~ 105	480-TBGA	MPC8264AVVPJDB-ND◊ ***NEW!***	211.41	183.38	175.20	MPC8264AVVPJDB
	—	—	4-16 Bit	I2C, MII, SPI, TDM	—	—	3.3	300	-40 ~ 85	480-TBGA	MPC8264AZUPIBB-ND	183.90	—	—	MPC8264AZUPIBB
	—	—	4-Ch.	SPI, I2C, TDM, UTOPIA	—	—	3.3	300	0 ~ 105	480-TBGA	MPC8265AVVPIBC-ND◊ ***NEW!***	163.62	141.93	135.60	MPC8265AVVPIBC
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	450	-40 ~ 115	516-FPBGA	MPC8270CVRMIBA-ND◊ ***NEW!***	66.27	53.66	51.93	MPC8270CVRMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	450	-40 ~ 115	480-FTBGA	MPC8270CVVQLDA-ND◊ ***NEW!***	91.64	73.56	69.54	MPC8270CVVQLDA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	450	-40 ~ 115	480-FTBGA	MPC8270CVVUPEA-ND◊ ***NEW!***	109.96	88.27	83.44	MPC8270CVVUPEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	450	0 ~ 105	516-FPBGA	MPC8270VRMIBA-ND◊ ***NEW!***	60.24	50.17	47.21	MPC8270VRMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	450	0 ~ 105	480-FTBGA	MPC8270VVQLDA-ND◊ ***NEW!***	83.31	66.88	63.22	MPC8270VVQLDA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	450	0 ~ 105	480-FTBGA	MPC8270VVUPEA-ND◊ ***NEW!***	99.96	80.25	75.86	MPC8270VVUPEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8271CVRMIBA-ND◊ ***NEW!***	42.11	35.08	33.00	MPC8271CVRMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8271CVRPIEA-ND◊ ***NEW!***	47.58	39.63	37.28	MPC8271CVRPIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8271CVRTIEA-ND◊ ***NEW!***	57.10	46.24	44.74	MPC8271CVRTIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8271VRMIBA-ND◊ ***NEW!***	38.28	31.88	30.00	MPC8271VRMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8271VRPIEA-ND◊ ***NEW!***	43.26	36.04	33.90	MPC8271VRPIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8271VRTIEA-ND◊ ***NEW!***	51.91	43.23	40.67	MPC8271VRTIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8271VRTMFA-ND◊ ***NEW!***	58.14	47.08	45.56	MPC8271VRTMFA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8272CVRMIBA-ND◊ ***NEW!***	43.91	36.57	34.41	MPC8272CVRMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8272CVRPIEA-ND◊ ***NEW!***	49.61	41.32	38.88	MPC8272CVRPIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	-40 ~ 115	516-FPBGA	MPC8272CVRTIEA-ND◊ ***NEW!***	59.54	48.21	46.65	MPC8272CVRTIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8272VRMIBA-ND◊ ***NEW!***	39.91	33.25	31.28	MPC8272VRMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8272VRPIEA-ND◊ ***NEW!***	45.11	37.57	35.35	MPC8272VRPIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8272VRTIEA-ND◊ ***NEW!***	54.13	45.09	42.42	MPC8272VRTIEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	400	0 ~ 105	516-FPBGA	MPC8272VRTMFA-ND◊ ***NEW!***	60.63	49.10	47.51	MPC8272VRTMFA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	266	-40 ~ 115	516-FPBGA	MPC8275CVRMIBA-ND◊ ***NEW!***	89.15	71.56	67.65	MPC8275CVRMIBA

*4-Channel DMA ◊ ***RoHS Compliant***

(Continued)

32-Bit Microcontrollers *(Cont.)*

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
												1	25	100	
32K	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	266	-40 ~ 115	516-FPBGA	MPC8275CZQMIBA-ND◊ ***NEW!***	89.15	71.56	67.65	MPC8275CZQMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	266	0 ~ 105	516-FPBGA	MPC8275VRMIBA-ND◊ ***NEW!***	81.04	65.06	61.50	MPC8275VRMIBA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	300	-40 ~ 115	480-FTBGA	MPC8280CVVQLDA-ND◊ ***NEW!***	149.87	130.00	124.20	MPC8280CVVQLDA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	300	-40 ~ 115	480-FTBGA	MPC8280CVVUPEA-ND◊ ***NEW!***	179.84	156.00	149.04	MPC8280CVVUPEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	300	0 ~ 105	480-FTBGA	MPC8280VVUPEA-ND◊ ***NEW!***	163.48	141.81	135.48	MPC8280VVUPEA
	—	—	4-Ch.	SPI, I2C, TDM, USB	—	—	3.3	300	0 ~ 105	480-FTBGA	MPC8280VVQLDA-ND◊ ***NEW!***	152.16	122.15	115.47	MPC8280VVQLDA
42K	—	—	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40 ~ 85	388-PBGA	MPC561CZP40-ND	40.52	30.79	29.94	MPC561CZP40
	—	—	54-Ch.	SCI, QSPI, TouCAN	2 QADC	12	2.6	56	-40 ~ 125	388-PBGA	MPC561MZP56-ND	40.67	33.87	31.87	MPC561MZP56
	—	—	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40 ~ 85	388-PBGA	MPC562CZP40-ND	42.50	35.40	33.30	MPC562CZP40
	—	—	54-Ch.	SCI, QSPI, TouCAN	2 QADC	12	2.6	56	-40 ~ 125	388-PBGA	MPC562MZP56-ND	46.76	38.95	36.64	MPC562MZP56
	—	512K	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40 ~ 85	388-PBGA	MPC563CVR40-ND◊ ***NEW!***	60.69	50.55	47.56	MPC563CVR40
	—	512K	—	SCI, QSPI, TouCAN	32-Ch., 10-Bit	—	5.0	56	-40 ~ 105	388-BGA	MPC563MVR56-ND◊ ***NEW!***	66.76	54.07	52.32	MPC563MVR56
	—	512K	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40 ~ 85	388-PBGA	MPC564CVR40-ND◊ ***NEW!***	66.76	54.07	52.32	MPC564CVR40
	—	512K	54-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40 ~ 85	388-PBGA	MPC564CZP40-ND	66.76	54.07	52.32	MPC564CZP40
	—	512K	—	SCI, QSPI, TouCAN	32-Ch., 10-Bit	—	5.0	56	-40 ~ 105	388-BGA	MPC564MVR56-ND◊ ***NEW!***	73.43	59.47	57.54	MPC564MVR56
46K	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40 ~ 85	388-PBGA	MPC565CVR40-ND◊ ***NEW!***	87.48	70.23	66.39	MPC565CVR40
	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	56	-40 ~ 85	388-PBGA	MPC565CVR56-ND◊ ***NEW!***	91.86	73.74	69.71	MPC565CVR56
	—	1M	—	SCI, QSPI, TouCAN	40-Ch., 10-Bit	—	5.0	56	-40 ~ 105	388-BGA	MPC565MVR56-ND◊ ***NEW!***	100.61	80.77	76.35	MPC565MVR56
	—	1M	—	SCI, QSPI, TouCAN	40-Ch., 10-Bit	—	5.0	56	-40 ~ 105	388-BGA	MPC566AVR56-ND◊ ***NEW!***	173.76	150.72	144.00	MPC566AVR56
	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40 ~ 85	388-PBGA	MPC566CVR40-ND◊ ***NEW!***	96.24	77.26	73.04	MPC566CVR40
	—	1M	—	SCI, QSPI, TouCAN	40-Ch., 10-Bit	—	5.0	56	-40 ~ 105	388-BGA	MPC566CVR56-ND◊ ***NEW!***	101.05	81.12	76.68	MPC566CVR56
	—	1M	70-Ch.	QSMCM	2 QADC64E	12	2.6	40	-40 ~ 85	388-PBGA	MPC566CZP40-ND	90.23	77.26	73.04	MPC566CZP40
	—	1M	—	SCI, QSPI, TouCAN	40-Ch., 10-Bit	—	5.0	56	-40 ~ 105	388-BGA	MPC566MVR56-ND◊ ***NEW!***	105.86	84.98	80.34	MPC566MVR56
64K	—	—	—	60X, MPX	—	—	3.3	400	-40 ~ 105	360-FCCLGA	MPC7410VS400LE-ND◊ ***NEW!***	85.39	68.55	64.80	MPC7410VS400LE
	—	—	—	60X, MPX	—	—	3.3	400	-40 ~ 105	360-FCCLGA	MPC7410VS400NE-ND◊ ***NEW!***	143.12	124.15	118.61	MPC7410VS400NE
	—	—	—	60X, MPX	—	—	3.3	450	-40 ~ 105	360-FCCLGA	MPC7410VS450LE-ND◊ ***NEW!***	102.57	82.34	77.83	MPC7410VS450LE
	—	—	—	60X, MPX	—	—	3.3	450	-40 ~ 105	360-FCCLGA	MPC7410VS450NE-ND◊ ***NEW!***	206.05	178.73	170.76	MPC7410VS450NE
	—	—	—	60X	—	—	2.5, 3.3	500	-40 ~ 85	360-CBGA	MPC7410VS500LE-ND◊ ***NEW!***	163.04	141.43	135.12	MPC7410VS500LE
	—	—	—	60X	—	—	3.3	350	-40 ~ 85	255-PBGA	MPC745BPX350LE-ND	85.74	73.42	69.40	MPC745BPX350LE
	—	—	—	60X	—	—	3.3	300	-40 ~ 85	360-CBGA	MPC755BPX300LE-ND	77.21	66.11	62.50	MPC755BPX300LE
	—	—	—	60X	—	—	3.3	300	-40 ~ 85	360-CBGA	MPC755BRX300LE-ND	77.21	66.11	62.50	MPC755BRX300LE
	—	—	—	60X	—	—	3.3	400	-40 ~ 85	360-PBGA	MPC755CPX400LE-ND	132.42	113.39	107.18	MPC755CPX400LE
	—	—	—	60X	—	—	3.3	400	-40 ~ 85	360-CBGA	MPC755CRX400LE-ND	132.42	113.39	107.18	MPC755CRX400LE
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA, USB	—	—	3.3	333	-40 ~ 105	480-FTBGA	MPC8270ZUQLDA-ND	78.10	66.88	63.22	MPC8270ZUQLD
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA, USB	—	—	3.3	450	-40 ~ 105	480-FTBGA	MPC8270ZUUPEA-ND	93.72	80.25	75.86	MPC8270ZUUPE
	—	—	4-Ch.	IIC, MII, SPI, UTOPIA, USB	—	—	3.3	450	-40 ~ 105	480-FTBGA	MPC8280ZUUPEA-ND	163.48	141.81	135.48	MPC8280ZUUPE
	—	—	—	SPI, I2C, DUART	—	—	2.5, 3.3	667	-40 ~ 115	783-FCPBGA	MPC8540CVT667JB-ND◊ ***NEW!***	176.08	152.73	145.92	MPC8540CVT667JB
	—	—	—	SPI, I2C, DUART	—	—	2.5, 3.3	667	0 ~ 105	783-FCPBGA	MPC8540VT667LB-ND◊ ***NEW!***	160.00	138.79	132.60	MPC8540VT667LB
	—	—	—	SPI, I2C, DUART	—	—	2.5, 3.3	833	0 ~ 105	783-FCPBGA	MPC8540VT833LB-ND◊ ***NEW!***	184.04	159.64	152.52	MPC8540VT833LB
	—	—	—	SPI, I2C, DUART	—	—	2.5, 3.3	333	-40 ~ 115	783-FCPBGA	MPC8541ECVTAJD-ND◊ ***NEW!***	144.66	125.48	119.88	MPC8541ECVTAJD
	—	—	—	SPI, I2C, DUART	—	—	2.5, 3.3	333	-40 ~ 115	783-FCPBGA	MPC8541ECVTALF-ND◊ ***NEW!***	159.14	138.04	131.88	MPC8541ECVTALF
	—	—	—	SPI, I2C, DUART	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8541EVTAJD-ND◊ ***NEW!***	146.86	117.89	111.44	MPC8541EVTAJD
	—	—	—	SPI, I2C, DUART	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8541EVTALF-ND◊ ***NEW!***	161.54	129.68	122.58	MPC8541EVTALF
	—	—	—	SPI, I2C, DUART	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8541EVTAPF-ND◊ ***NEW!***	166.38	144.32	137.88	MPC8541EVTAPF
	—	—	—	SPI, I2C, DUART	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8541EVTAQF-ND◊ ***NEW!***	199.68	173.21	165.48	MPC8541EVTAQF
	—	—	—	SPI, TDM, I2C	—	—	2.5, 3.3	333	-40 ~ 115	783-FCPBGA	MPC8555ECVTAJD-ND◊ ***NEW!***	159.14	138.04	131.88	MPC8555ECVTAJD
	—	—	—	SPI, TDM, I2C	—	—	2.5, 3.3	333	-40 ~ 115	783-FCPBGA	MPC8555ECVTALF-ND◊ ***NEW!***	175.06	151.86	145.08	MPC8555ECVTALF
	—	—	—	SPI, TDM, I2C	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8555EVTAJD-ND◊ ***NEW!***	144.66	125.48	119.88	MPC8555EVTAJD
	—	—	—	SPI, TDM, I2C	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8555EVTALF-ND◊ ***NEW!***	159.14	138.04	131.88	MPC8555EVTALF
	—	—	—	SPI, TDM, I2C	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8555EVTAPF-ND◊ ***NEW!***	183.03	158.76	151.68	MPC8555EVTAPF
	—	—	—	SPI, TDM, I2C	—	—	2.5, 3.3	333	0 ~ 105	783-FCPBGA	MPC8555EVTAQF-ND◊ ***NEW!***	219.52	190.41	181.92	MPC8555EVTAQF
	—	—	—	SPI	—	—	2.5, 3.3	—	-40 ~ 85	783-FCPBGA	MPC8560CVT667JB-ND◊ ***NEW!***	213.00	184.76	176.52	MPC8560CVT667JB
	—	—	—	SPI	—	—	2.5, 3.3	—	-40 ~ 105	783-FCPBGA	MPC8560VT667LB-ND◊ ***NEW!***	192.00	166.55	159.12	MPC8560VT667LB
	—	—	—	SPI	—	—	2.5, 3.3	—	-40 ~ 105	783-FCPBGA	MPC8560VT833LB-ND◊ ***NEW!***	220.82	191.54	183.00	MPC8560VT833LB
—	—	—	—	Ext. Bus Interface (EBI)	—	—	3.3	66	-40 ~ 85	100-LQFP	MPC180LMB-ND	20.96	16.44	15.49	MPC180LMB
M-CORE Processors															
8K	—	128K	Dual 4-Ch.	Dual SCI, SPI	Queued 8-Ch., 10-Bit	—	2.7 ~ 3.6	33	-40 ~ 85	100-LQFP	MMC2107CFCPU33-ND	24.35	19.10	18.00	MMC2107CFCPU33
—	8K	128K	4- Ch.	Dual, SCI, SPI	Queued 8-Ch., 10-Bit	—	2.7 ~ 3.6	33	-40 ~ 85	144-LQFP	MMC2107CFCAG33-ND◊ ***NEW!***	24.35	19.10	18.00	MMC2107CFCAG33
68K Family Processors															
1K	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	-40 ~ 85	100-LQFP	M68LC302CPU16VCT-ND	28.45	22.31	21.02	M68LC302CPU16VCT
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0 ~ 70	132-PQFP	MC68302CFC16C-ND	32.99	26.95	25.54	MC68302CFC16C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0 ~ 70	132-PQFP	MC68302FC16C-ND	27.98	22.64	21.43	MC68302FC16C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0 ~ 70	132-PQFP	MC68302EH16C-ND◊ ***NEW!***	29.57	23.20	21.85	MC68302EH16C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	20	0 ~ 70	132-PQFP	MC68302FC20C-ND	30.67	24.95	23.64	MC68302FC20C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0 ~ 70	144-LQFP	MC68302PV16C-ND	27.31	22.06	20.88	MC68302PV16C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	25	0 ~ 70	144-LQFP	MC68302PV25C-ND	32.70	26.69	25.30	MC68302PV25C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	33	0 ~ 70	144-LQFP	MC68302PV33C-ND	38.29	29.09	28.29	MC68302PV33C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	16	0 ~ 70	132-PGA	MC68302RC16C-ND	76.93	—	—	MC68302RC16C
	—	—	4-Ch.	SCP, TDM	—	—	5.0	20	-40 ~ 85	144-TQFP	MC68EN302PV20BT-ND	36.74	30.18	28.64	MC68EN302PV20BT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	-40 ~ 85	100-LQFP	MC68LC302CPU16CT-ND	20.36	15.98	15.05	MC68LC302CPU16CT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	20	-40 ~ 85	100-LQFP	MC68LC302CPU20CT-ND	24.40	19.15	18.03	MC68LC302CPU20CT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	-40 ~ 85	100-TQFP	MC68LC302PU16CT-ND	19.68	15.56	14.68	MC68LC302PU16CT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	-40 ~ 85	100-TQFP	MC68LC302AF16CT-ND◊ ***NEW!***	19.96	15.66	14.75	MC68LC302AF16CT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	-40 ~ 105	100-LQFP	MC68LC302PU16VCT-ND	27.88	21.87	20.60	MC68LC302PU16VCT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	16	-40 ~ 105	100-LQFP	MC68LC302AF16VCT-ND◊ ***NEW!***	27.88	21.87	20.60	MC68LC302AF16VCT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	20	-40 ~ 85	100-TQFP	MC68LC302AF20CT-ND◊ ***NEW!***	23.91	18.76	17.67	MC68LC302AF20CT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	20	-40 ~ 105	100-LQFP	MC68LC302PU20VCT-ND	28.71	22.52	21.21	MC68LC302PU20VCT
	—	—	4-Ch.	SCP, TDM	—	—	3.3	25	-40 ~ 85	100-TQFP	MC68LC302PU25CT-ND	26.54	21.41	20.25	MC68LC302PU25CT
2K	—	—	TPU	SCI, Queued SPI	—	—	5.0	25	-40 ~ 85	132-PQFP	MC68332ACEH25-ND◊ ***NEW!***	26.02	20.41	19.23	MC68332ACEH25
	—	—	TPU	SCI, Queued, SPI	—	—	5.0	16	-40 ~ 85	132-PQFP	MC68332GCEH16-ND◊ ***NEW!***	23.63	18.54	17.46	MC68332GCEH16
	—	—	TPU	SCI, Queued SPI	—	—	5.0	16	-40 ~ 85	144-LQFP	MC68332GCPV16-ND	19.66	15.42	14.53	MC68332GCPV16
	—	—	TPU	SCI, Queued SPI	—	—	5.0	20	-40 ~ 85	144-LQFP	MC68332GCPV20-ND	20.63	16.18	15.24	MC68332GCPV20
	—	—	TPU	SCI, Queued SPI	—	—	3-5	16	-40 ~ 85	144-LQFP	MC68LK332ACAG16-ND◊ ***NEW!***	21.63	16.97	15.98	MC68LK332ACAG16

*4-Channel DMA ◊ ***RoHS Compliant***

(Continued)

32-Bit Microcontrollers *(Cont.)*

RAM (Bytes)	SRAM (Bytes)	Flash (Bytes)	Timer	Serial	A/D	PWM	Operating Voltage (V)	Oper. Freq. (MHz)	Temp. (°C)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
												1	25	100	
2K	—	—	TPU	SCI, Queued SPI	—	—	5.0	16	-40 ~ 85	144-LQFP	MC68332GCPV16B1-ND	19.66	15.42	14.53	MC68332GCPV16B1
	—	—	TPU	SCI, Queued, SPI	—	—	5.0	16	-40 ~ 85	132-PQFP	MC68332ACEH16-ND◊ ***NEW!***	23.63	18.54	17.46	MC68332ACEH16
	—	—	TPU	SCI, Queued, SPI	—	—	5.0	20	-40 ~ 85	132-PQFP	MC68332ACEH20-ND◊ ***NEW!***	24.83	19.48	18.35	MC68332ACEH20
	—	—	—	—	—	—	5.0	16	-40 ~ 85	132-PQFP	MC68334GCEH16-ND◊ ***NEW!***	24.25	19.02	17.92	MC68334GCEH16
2.5K	—	—	4-16 Bit	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	357-PBGA	MC68MH360ZP25VL-ND	77.39	66.27	62.64	MC68MH360ZP25VL
7.5K	—	—	TPU, CTM4	SCI, Queued SPI	Queued 16-Ch., 10-Bit	—	5.0	20	-40 ~ 85	160-QFP	MC68336ACFT20-ND	33.17	26.02	24.51	MC68336ACFT20
	—	—	TPU, CTM4	SCI, Queued SPI	Queued 16-Ch., 10-Bit	—	5.0	20	-40 ~ 85	160-QFP	MC68336GCFT20-ND	33.17	26.02	24.51	MC68336GCFT20
	—	—	TPU, CTM4	SCI, Queued SPI	Queued 16-Ch., 10-Bit	—	5.0	20	-40 ~ 85	160-QFP	MC68336GCAB20-ND◊ ***NEW!***	33.17	26.02	24.51	MC68336GCAB20
8K	—	—	—	—	—	—	5.0	33	-40 ~ 85	184-CQFP	MC68EC040FE33A-ND	132.92	—	—	MC68EC040FE33A
	—	—	—	—	—	—	5.0	25	-40 ~ 85	179-PGA	MC68EC040RC25A-ND	119.37	—	—	MC68EC040RC25A
	—	—	—	—	—	—	5.0	33	-40 ~ 85	179-PGA	MC68EC040RC33A-ND	160.87	—	—	MC68EC040RC33A
	—	—	—	—	—	—	5.0	25	-40 ~ 85	179-PGA	MC68LC040RC25A-ND	173.76	—	—	MC68LC040RC25A
16K	—	—	—	—	—	—	3.3	50	-40 ~ 85	206-PGA	MC68EC060RC50-ND	149.58	—	—	MC68EC060RC50
	—	—	—	—	—	—	3.3	66	-40 ~ 85	206-PGA	MC68EC060RC66-ND	321.17	—	—	MC68EC060RC66
	—	—	—	—	—	—	3.3 ~ 5.0	66	-40 ~ 85	206-PGA	MC68LC060RC66-ND	508.90	—	—	MC68LC060RC66
—	—	—	4-Ch.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	240-FQFP	MC68MH360EM25L-ND	67.94	55.01	53.23	MC68MH360EM25L
	—	—	—	—	—	—	5.0	16	-40 ~ 85	64-QFP	MC68SEC000AA16-ND◊ ***NEW!***	12.16	9.20	8.48	MC68SEC000AA16
	—	—	GPT	SCI, Queued SPI	—	—	5.0	16	-40 ~ 85	144-LQFP	MC68331CPV16-ND	18.88	14.28	13.17	MC68331CPV16
	—	—	GPT	SCI, Queued SPI	—	—	5.0	16	-40 ~ 85	144-LQFP	MC68331CAG16-ND◊ ***NEW!***	18.88	14.28	13.17	MC68331CAG16
	—	—	GPT	SCI, Queued SPI	—	—	5.0	16	-40 ~ 85	132-PQFP	MC68331CFC16-ND	21.29	16.71	15.74	MC68331CFC16
	—	—	GPT	SCI, Queued SPI	—	—	5.0	16	-40 ~ 85	132-PQFP	MC68331CEH16-ND◊ ***NEW!***	21.29	16.71	15.74	MC68331CEH16
	—	—	—	—	—	—	5.0	16	-40 ~ 85	114-PGA	MC68020RC16E-ND	160.15	—	—	MC6802RC16E
	—	—	—	—	—	—	5.0	50	-40 ~ 85	206-PGA	MC68060RC50-ND	520.47	—	—	MC68060RC50
	—	—	—	—	—	—	5.0	16	-40 ~ 85	132-PQFP	MC68334GCFC16-ND	24.25	19.02	17.92	MC68334GCFC16
	—	—	—	—	—	—	5.0	16	-40 ~ 85	132-PQFP	MC68334GFC16-ND	24.25	19.02	17.92	MC68334GFC16
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	16	-40 ~ 85	144-CQFP	MC68340FE16E-ND	46.60	38.81	36.52	MC68340FE16E
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	25	-40 ~ 85	144-CQFP	MC68340FE25E-ND	62.90	52.39	49.29	MC68340FE25E
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	16	-40 ~ 85	144-LQFP	MC68340PV16E-ND	28.50	22.36	21.06	MC68340PV16E
	—	—	2-16 Bit	DUART	—	—	3.3 ~ 5.0	25	-40 ~ 85	144-LQFP	MC68340PV25E-ND	39.90	30.32	29.48	MC68340PV25E
	—	—	4-Ch.	SCP,TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	240-FQFP	MC68360CEM25L-ND	62.02	51.66	48.60	MC68360CEM25L
	—	—	4-Ch.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	240-PQFP	MC68360EM25L-ND	54.66	45.78	43.56	MC68360EM25L
	—	—	4-Ch.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	240-PQFP	MC68360EM25VL-ND	64.94	54.79	52.18	MC68360EM25VL
	—	—	4-Ch.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	357-PBGA	MC68360ZP25L-ND	56.25	46.85	44.08	MC68360ZP25L
	—	—	4-Ch.	SCP,TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	357-PBGA	MC68360ZP25VL-ND	67.81	54.91	53.13	MC68360ZP25VL
	256	—	2-Ch.	UART	—	—	5.0	25	-40 ~ 85	100-QFP	MC68EC020FG25-ND	29.96	23.50	22.14	MC68EC020FG25
	512	—	—	—	—	—	5.0	25	-40 ~ 85	132-CQFP	MC68EC030FE25C-ND	43.15	35.94	33.82	MC68EC030FE25C
	512	—	—	—	—	—	5.0	40	0 ~ 70	132-CQFP	MC68EC030FE40C-ND	59.86	49.85	46.90	MC68EC030FE40C
	—	—	4-Ch..	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	240-FQFP	MC68EN360CEM25L-ND	70.04	56.71	54.88	MC68EN360CEM25L
	—	—	4-Ch.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	240-FQFP	MC68EN360EM25L-ND	61.80	52.04	49.54	MC68EN360EM25L
	—	—	4-Ch.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	240-FQFP	MC68EN360EM25VL-ND	72.02	61.01	58.14	MC68EN360EM25VL
	—	—	4-Ch.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	240-PGA	MC68EN360RC25K-ND	133.62	—	—	MC68EN360RC25K
	—	—	4-Ch.	SCP, TDM	—	—	3.3 ~ 5.0	25	-40 ~ 85	144-TQFP	MC68EN360ZP25VL-ND	71.45	60.51	57.66	MC68EN360ZP25VL
	—	—	—	—	—	—	5.0	16	-40 ~ 85	68-PLCC	MC68HC000FN16-ND	13.67	10.34	9.54	MC68HC000FN16
	—	—	—	—	—	—	5.0	16	-40 ~ 85	68-PLCC	MC68HC000EI16-ND◊ ***NEW!***	13.67	10.34	9.54	MC68HC000EI16
	—	—	—	—	—	—	5 .0	16	-40 ~ 85	68-PLCC	MC68HC000FN16TR-ND	2317.00/250			MC68HC000FN16
I.MX™0 Processors															
32K	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	200	-40 ~ 85	256-PBGA	MC9328MX1DVH20-ND	27.41	21.50	20.25	MC9328MX1DVH20
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	200	-40 ~ 85	256-PBGA	MC9328MX1DVM20-ND◊ ***NEW!***	26.04	20.43	19.24	MC9328MX1DVM20
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	200	-40 ~ 85	256-PBGA	MC9328MX1DVM20R2CT-ND◊ ***NEW!***	27.41	21.50	20.25	MC9328MX1DVM20R2
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	200	-40 ~ 85	256-PBGA	MC9328MX1DVM20R2TR-ND◊ ***NEW!***	17784.00/1,000			MC9328MX1DVM20R2
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	200	-40 ~ 85	256-PBGA	MC9328MX1VH20-ND	27.41	21.50	20.25	MC9328MX1VH20
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	150	-40 ~ 85	256-MAPBGA	MC9328MX1CVM15-ND◊ ***NEW!***	24.95	19.57	18.44	MC9328MX1CVM15
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	266	-40 ~ 85	289-MAPBGA	MC9328MX21CVK-ND◊ ***NEW!***	28.52	21.67	21.07	MC9328MX21CVK
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	266	-40 ~ 85	289-MAPBGA	MC9328MX21CVM-ND◊ ***NEW!***	28.52	21.67	21.07	MC9328MX21CVM
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	266	-40 ~ 85	289-MAPBGA	MC9328MX21DVK-ND◊ ***NEW!***	24.79	19.45	18.32	MC9328MX21DVK
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	266	0 ~ 70	289-MAPBGA	MC9328MX21VK-ND◊ ***NEW!***	24.79	19.45	18.32	MC9328MX21VK
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	266	0 ~ 70	289-MAPBGA	MC9328MX21VM-ND◊ ***NEW!***	24.79	19.45	18.32	MC9328MX21VM
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	150	-40 ~ 85	256-MAPBGA	MC9328MXLCVM15-ND◊ ***NEW!***	16.56	12.53	11.55	MC9328MXLCVM15
	—	—	2-32 Bit	IIC, SPI, UART, USB	4-Ch., 9-Bit	4	2.7 ~ 3.3	150	-40 ~ 85	225-MAPBGA	MC9328MXLCVP15-ND◊ ***NEW!***	16.56	12.53	11.55	MC9328MXLCVP15

*4-Channel DMA ◊ ***RoHS Compliant***

32-Bit Development Tools

Device Numbers	Series	Digi-Key Part No.	Price Each	Freescale Part No.
MCF5206	ColdFire™	M5206AN-ND	508.73	M5206AN
MCF5307	ColdFire	M5307C3-ND	609.41	M5307C3
MCF5280/81/82	ColdFire	M5282LITE-ND	220.39	M5282LITE
MCF5280/81/82	ColdFire	M5282LITEKIT-ND	291.72	M5282LITEKIT
MCF523X	ColdFire	M523XEVB-ND	785.76	M523XEVB
MCF523X	ColdFire	M5235BCCKIT-ND	282.63	M5235BCCKIT
MCF5270/71	ColdFire	M5271EVB-ND	733.76	M5271EVB
MCF5274/75	ColdFire	M5275EVB-ND	733.76	M5275EVB
MCF547X	ColdFire	M5475EVB-ND	960.93	M5475EVB
MCF548X	ColdFire	M5485EVB-ND	960.93	M5485EVB
MCF5282	ColdFire	M5282EVB-ND	808.86	M5282EVB
MCF5282 with MC9S08GT60, MC13192, MMA6261, MPXM2053	ColdFire	M5282ZIGBEE-ND	351.39	M5282ZIGBEE
MPC555	PowerPC™	MPC555CME-ND	734.83	MPC555CME
MPC561/62/63/64	PowerPC	MPC564EVB-ND	1011.86	MPC564EVB
MPC565/66	PowerPC	MPC566EVB-ND	1011.86	MPC566EVB
MMC2107	M-CORE™	MMCEVB2107-ND	508.73	MMCEVB2107

freescale
semiconductor

Flash Digital Signal Processors

Prog. Flash (16-Bit)	Prog. RAM (16-Bit)	Flash (Data) (16-Bit)	RAM (Data) (16-Bit)	Boot Flash (16-Bit)	Timers	I/O	Serial	A/D	PWM	Operating Voltage (V)	Bus Freq. (MHz)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
														1	25	100	
8K	1K	2K	1K	2K	8	11	SPI, SCI	8-Ch., 12-Bit	6-Ch.	3.3	60	48-LQFP	DSP56F801FA60E-ND◊ **NEW!**	8.77	6.27	5.70	DSP56F801FA60E
	1K	2K	1K	2K	8	11	SPI, SCI	8-Ch., 12-Bit	6-Ch.	3.3	80	48-LQFP	DSP56F801FA80-ND	11.39	8.62	7.95	DSP56F801FA80
	1K	2K	1K	2K	8	11	SPI, SCI	8-Ch., 12-Bit	6-Ch.	3.3	80	48-LQFP	DSP56F801FA80E-ND◊ **NEW!**	11.39	8.62	7.95	DSP56F801FA80E
	1K	2K	1K	2K	8	4	SCI	8-Ch., 12-Bit	6-Ch.	3.3	60	32-LQFP	DSP56F802TA60E-ND◊ **NEW!**	7.62	5.45	4.95	DSP56F802TA60E
	1K	2K	1K	2K	8	4	SCI	8-Ch., 12-Bit	6-Ch.	3.3	80	32-LQFP	DSP56F802TA80E-ND◊ **NEW!**	9.98	6.81	6.48	DSP56F802TA80E
31.5K	0.5K	4K	2K	2K	16	16	SPI, SCI	8-Ch., 12-Bit	6-Ch.	3.3	80	100-LQFP	DSP56F803BU80E-ND◊ **NEW!**	18.38	13.91	12.82	DSP56F803BU80E
	0.5K	4K	2K	2K	16	32	SPI, 2 SCI	8-Ch., 12-Bit	(2) 6-Ch.	3.3	80	144-LQFP	DSP56F805FV80E-ND◊ **NEW!**	17.76	13.94	13.13	DSP56F805FV80E
	0.5K	2K	4K	2K	4, 1 TOD	16	2 SPI, 2 SCI, SSI	—	—	2.5/3.3	80	100-LQFP	DSP56F826BU80-ND	17.10	12.94	11.93	DSP56F826BU80
	0.5K	2K	4K	2K	4, 1 TOD	16	2 SPI, 2 SCI, SSI	—	—	2.5/3.3	80	100-LQFP	DSP56F826BU80E-ND◊ **NEW!**	17.10	12.94	11.93	DSP56F826BU80E
60K	2K	8K	4K	2K	16	32	SPI, 2 SCI	16-Ch., 12-Bit	(2) 6-Ch.	3.3	80	160-LQFP	DSP56F807PY80E-ND◊ **NEW!**	21.12	16.57	15.61	DSP56F807PY80E
	2K	8K	4K	2K	16	32	SPI, 2 SCI	16-Ch., 12-Bit	(2) 6-Ch.	3.3	80	160-BGA	DSP56F807VF80E-ND◊ **NEW!**	24.14	18.94	17.84	DSP56F807VF80E
32K	4K	8K	8K	8K	8	21	SCI, SPI	6-Ch., 12-Bit	—	3.3	40	48-LQFP	MC56F8122VFAE-ND◊ **NEW!**	9.30	6.35	6.04	MC56F8122VFAE
	4K	8K	8K	8K	8	27	SCI, SPI	8-Ch., 12-Bit	—	3.3	40	64-LQFP	MC56F8123VFBE-ND◊ **NEW!**	9.62	6.56	6.25	MC56F8123VFBE
	4K	8K	8K	8K	8	21	SCI, SPI	6-Ch., 12-Bit	6-Ch.	3.3	60	48-LQFP	MC56F8322MFAE-ND◊ **NEW!**	12.49	9.45	8.71	MC56F8322MFAE
	4K	8K	8K	8K	8	21	SCI, SPI	6-Ch., 12-Bit	6-Ch.	3.3	60	48-LQFP	MC56F8322VFAE-ND◊ **NEW!**	10.65	8.06	7.43	MC56F8322VFAE
	4K	8K	8K	8K	8	27	SCI, SPI	8-Ch., 12-Bit	6-Ch.	3.3	60	64-LQFP	MC56F8323MFBE-ND◊ **NEW!**	12.85	9.72	8.96	MC56F8323MFBE
	4K	8K	8K	8K	8	27	SCI, SPI	8-Ch., 12-Bit	6-Ch.	3.3	60	64-LQFP	MC56F8323VFBE-ND◊ **NEW!**	11.03	8.35	7.69	MC56F8323VFBE
128K	4K	8K	8K	8K	8	49	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	128-LQFP	MC56F8145VFGE-ND◊ **NEW!**	13.58	10.27	9.47	MC56F8145VFGE
	4K	8K	8K	8K	8	62	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	144-LQFP	MC56F8146VFVE-ND◊ **NEW!**	13.69	10.36	9.55	MC56F8146VFVE
	4K	8K	8K	8K	8	76	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	160-LQFP	MC56F8147VPYE-ND◊ **NEW!**	14.53	11.00	10.14	MC56F8147VPYE
	4K	8K	8K	8K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8345MFGE-ND◊ **NEW!**	19.05	14.94	14.08	MC56F8345MFGE
	4K	8K	8K	8K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8345VFGE-ND◊ **NEW!**	17.43	13.18	12.15	MC56F8345VFGE
	4K	8K	8K	8K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8346MFVE-ND◊ **NEW!**	25.58	20.07	18.90	MC56F8346MFVE
	4K	8K	8K	8K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8346VFVE-ND◊ **NEW!**	17.56	13.28	12.25	MC56F8346VFVE
	4K	8K	8K	8K	16	76	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	160-LQFP	MC56F8347VPYE-ND◊ **NEW!**	18.65	14.11	13.01	MC56F8347VPYE
256K	4K	8K	16K	16K	8	49	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	128-LQFP	MC56F8155VFGE-ND◊ **NEW!**	18.02	13.63	12.57	MC56F8155VFGE
	4K	8K	16K	16K	8	62	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	144-LQFP	MC56F8156VFVE-ND◊ **NEW!**	18.15	13.73	12.66	MC56F8156VFVE
	4K	8K	16K	16K	8	76	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	160-LQFP	MC56F8157VPYE-ND◊ **NEW!**	17.92	14.06	13.24	MC56F8157VPYE
	4K	8K	16K	16K	8	49	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	128-LQFP	MC56F8165VFGE-ND◊ **NEW!**	23.84	18.70	17.62	MC56F8165VFGE
	4K	8K	16K	16K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8355MFGE-ND◊ **NEW!**	24.60	19.30	18.18	MC56F8355MFGE
	4K	8K	16K	16K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8355VFGE-ND◊ **NEW!**	21.15	16.60	15.63	MC56F8355VFGE
	4K	8K	16K	16K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8356MFVE-ND◊ **NEW!**	24.91	19.54	18.41	MC56F8356MFVE
	4K	8K	16K	16K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8356VFVE-ND◊ **NEW!**	21.29	16.71	15.74	MC56F8356VFVE
	4K	8K	16K	16K	16	76	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	160-LQFP	MC56F8357VPYE-ND◊ **NEW!**	22.91	17.97	16.93	MC56F8357VPYE
512K	4K	32K	32K	32K	8	62	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	144-LQFP	MC56F8166VFVE-ND◊ **NEW!**	24.00	18.83	17.74	MC56F8166VFVE
	4K	32K	32K	32K	8	76	SCI, SPI	16-Ch., 12-Bit	6-Ch.	3.3	40	160-LQFP	MC56F8167VPYE-ND◊ **NEW!**	25.05	19.66	18.51	MC56F8167VPYE
	4K	32K	32K	32K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8365MFGE-ND◊ **NEW!**	33.95	26.63	25.08	MC56F8365MFGE
	4K	32K	32K	32K	16	49	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	128-LQFP	MC56F8365VFGE-ND◊ **NEW!**	29.85	23.42	22.06	MC56F8365VFGE
	4K	32K	32K	32K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8366MFVE-ND◊ **NEW!**	34.31	26.92	25.35	MC56F8366MFVE
	4K	32K	32K	32K	16	62	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	144-LQFP	MC56F8366VFVE-ND◊ **NEW!**	30.03	23.55	22.19	MC56F8366VFVE
	4K	32K	32K	32K	16	76	SCI, SPI	16-Ch., 12-Bit	12-Ch.	3.3	60	160-LQFP	MC56F8367VPYE-ND◊ **NEW!**	31.36	24.60	23.17	MC56F8367VPYE

◊ *RoHS Compliant*

Digital Signal Processors

On Chip RAM	Bootstrap ROM	Timer	I/O	Serial	Other Features	Operating Voltage (V)	Bus Frequency (MHz)	Package	Digi-Key Part No.	Price Each			Freescale Part No.
										1	25	100	
—	—	3	4-Ports	ESAI, SHI	On-Chip Emulation	3.3	120	144-LQFP	DSPB56362AG120-ND◊ **NEW!**	15.61	11.81	10.89	DSPB56362AG120
	—	1	3-Ports	ESAI, SHI	On-Chip Emulation	3.3	100	100-LQFP	DSPB56364AF100-ND◊ **NEW!**	9.81	7.01	6.37	DSPB56364AF100
	—	3	5-Ports	ESAI, SHI	On-Chip Emulation	3.3	120	144-LQFP	DSPB56366AG120-ND◊ **NEW!**	19.50	15.30	14.41	DSPB56366AG120
8K	3K	3	42	2-ESSI	DMA, JTAG	3.3	80	208-TQFP	DSP56301PW80-ND	51.44	42.84	40.31	DSP56301PW80
	3K	3	42	2-ESSI, SCI	PCI, ISA, JTAG	3.3	100	208-LQFP	DSP56301PW100-ND	54.49	45.38	42.70	DSP56301PW100
	3K	3	42	2-ESSI, SCI	PCI, ISA, JTAG	3.3	100	252-BGA	DSP56301VF100-ND	54.49	45.38	42.70	DSP56301VF100
10K	1K	4	11	ISSI, SCI, SPI	On-Chip Emulation	3.3	120	81-MAPBGA	DSP56852VFE-ND◊ **NEW!**	9.91	6.77	6.44	DSP56852VFE
16K	1K	4	41	ISSI, SCI, SPI	DMA Controller	3.3	120	128-LQFP	DSP56853FGE-ND◊ **NEW!**	12.52	9.47	8.74	DSP56853FGE
32K	1K	4	41	ISSI, SCI, SPI	DMA Controller	3.3	120	128-LQFP	DSP56854FGE-ND◊ **NEW!**	13.58	10.27	9.47	DSP56854FGE
48K	1K	4	18	ESSI, SCI	DMA Controller	1.8~3.3	120	100-LQFP	DSP56855BUE-ND◊ **NEW!**	14.61	11.05	10.19	DSP56855BUE
64K	1K	4	47	ISSI, SCI, SPI	DMA Controller	1.8~3.3	120	100-LQFP	DSP56857BUE-ND◊ **NEW!**	15.72	11.89	10.97	DSP56857BUE
	1K	4	47	ISSI, SCI, SPI	DMA Controller	1.8~3.3	120	144-LQFP	DSP56858FVE-ND◊ **NEW!**	16.56	12.53	11.55	DSP56858FVE
	192	3	34	2-ESSI, SCI	DMA, JTAG	1.8/3.3	160	196-BGA	XC56L307VF160-ND	40.89	34.06	32.05	XC56L307VF160
128K	192	3	34	2-ESSI	DMA, JTAG	3.3	100	196-BGA	DSP56303VF100-ND	30.11	23.62	22.25	DSP56303VF100
	192	3	5	2-ESSI, SCI	On-Chip Emulation	3.3	100	144-TQFP	DSP56303AG100-ND◊ **NEW!**	31.20	24.48	23.06	DSP56303AG100
	192	3	—	1-ESSI, SCI 2	On-Chip Emulation	3.3	150	196-MAPBGA	DSP56311VL150B1-ND◊ **NEW!**	53.43	44.50	41.87	DSP56311VL150B1
	192	3	—	1-ESSI, SCI 2	On-Chip Emulation	3.3	150	196-MAPBGA	DSP56311VL150R2CT-ND◊ **NEW!**	53.43	44.50	41.87	DSP56311VL150R2
	192	3	—	1-ESSI, SCI 2	On-Chip Emulation	3.3	150	196-MAPBGA	DSP56311VL150R2TR-ND◊ **NEW!**	29997.00/750			DSP56311VL150R2
	192	3	42	2-ESSI, SCI	DMA, JTAG	1.8/3.3	150	196-BGA	DSP56311VL150-ND◊ **NEW!**	44.42	37.00	34.81	DSP56311VL150
	192	3	34	2-ESSI, SCI	DMA, JTAG	3.3	100	196-BGA	XC56309VF100A-ND	42.21	35.16	33.08	XC56309VF100A
192K	192	3	18	1-ESSI, SCI 2	On-Chip Emulation	3.3	200	196-MAPBGA	DSP56321VL200-ND◊ **NEW!**	65.40	52.96	51.25	DSP56321VL200
	192	3	18	1-ESSI, SCI 2	On-Chip Emulation	3.3	220	196-MAPBGA	DSP56321VL220-ND◊ **NEW!**	68.85	55.75	53.95	DSP56321VL220
	192	3	18	1-ESSI, SCI 2	On-Chip Emulation	3.3	240	196-MAPBGA	DSP56321VL240-ND◊ **NEW!**	72.68	58.86	56.95	DSP56321VL240
	192	3	18	1-ESSI, SCI 2	On-Chip Emulation	3.3	275	196-MAPBGA	DSP56321VL275-ND◊ **NEW!**	77.63	62.32	58.91	DSP56321VL275
512K	2K	4	66	HDLC, SPI	DMA Controller	3.3	250	332-FCPBGA	MSC8101VT1250F-ND◊ **NEW!**	136.75	109.78	103.77	MSC8101VT1250F
	2K	4	66	HDLC, SPI	DMA Controller	3.3	250	332-FCPBGA	MSC8101VT1375F-ND◊ **NEW!**	132.41	113.37	107.17	MSC8101VT1375F
	2K	4	66	HDLC, SPI	DMA Controller	3.3	250	332-FCPBGA	MSC8101VT1500F-ND◊ **NEW!**	146.97	127.49	121.80	MSC8101VT1500F
	2K	4	66	HDLC, SPI	DMA Controller	3.3	275	332-FCPBGA	MSC8103VT1100F-ND◊ **NEW!**	125.41	100.68	95.17	MSC8103VT1100F
	2K	4	66	HDLC, SPI	DMA Controller	3.3	300	332-FCPBGA	MSC8103VT1200F-ND◊ **NEW!**	135.47	108.75	102.80	MSC8103VT1200F
1436K	4K	32	32	TDM, I2C	DMA Controller	3.3	300	431-FCPBGA	MSC8122TVT4800V-ND◊ **NEW!**	175.35	152.11	145.32	MSC8122TVT4800V
	4K	32	32	TDM, I2C	DMA Controller	3.3	400	431-FCPBGA	MSC8122TVT6400V-ND◊ **NEW!**	192.73	167.18	159.72	MSC8122TVT6400V
	4K	32	32	TDM, I2C	DMA Controller	3.3	500	431-FCPBGA	MSC8122VT8000-ND◊ **NEW!**	222.12	192.68	184.08	MSC8122VT8000
	4K	32	32	TDM, I2C	DMA Controller	3.3	500	431-FCPBGA	MSC8126VT8000-ND◊ **NEW!**	233.27	202.35	193.32	MSC8126VT8000
	4K	32	32	TDM, I2C	DMA Controller	3.3	400	431-FCPBGA	MSC8126TVT6400-ND◊ **NEW!**	202.43	175.59	167.76	MSC8126TVT6400

◊ *RoHS Compliant*

freescale
semiconductor

DSP Bit Development Tools

MC56F8323EVM Kit

The MC56F8323EVM is a low-cost kit that contains everything you need to quickly evaluate the features and capabilities of the MC56F8322 and MC56F8323 hybrid controller silicon and tools.

Kit Contents:

• MC56F8323EVM board • Installation guide • Switch mode power supply (12 Volt) • Parallel cable • CodeWarrior™ • Development studio for 56800/E special edition

MC56F8323EVM-ND **$337.95**

DSP56303EVM Kit

The DSP56303 Evaluation Module is designed as a low-cost platform for developing real-time software and hardware products to support applications in wireless, telecommunications and multimedia products using multi-line voice/date/fax processing, videoconferencing, audio applications, control and general digital signal processing.

PC-compatible computer (90MHz or higher) running Windows 95 or NT4 with an RS-232 serial port. 12 Mbytes RAM, 3-1/2 inch diskette drive, CD-ROM drive, hard drive with 20 Mbytes of free disk space. Power supply 7-9 V AC or DC 500 mA with 2.1 mm coaxial connector, (not included) (recommended Digi-Key part number T353-P5P-ND).

Kit Contents:

• DSP56303EVM board • DSP56300 literature • Suite56 for Freescale DSP 563xx • Freescale The DSP56300 Family Documentation • Domain Technologies Debugger for DSP563xxEVM

DSP56303EVM-ND........ **$282.63**

DSP56F800DEMO Kit

The 56F800 Demonstration Board is used to demonstrate the abilities of the 56F800 family and to provide a hardware tool allowing the development of applications that use the 56F800 devices. The DSP56F800DEMO Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F800 silicon and tools. It also provides an excellent cost effective vehicle for hardware and software development. The DSP56F800DEMO Kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents: • Demo board • Parallel cable • Complimentary CodeWarrior™ license, 8K word program memory limit • SDK CD • Instructions for kit • Training CD • US power supply

DSP56F800DEMO-ND **$56.47**

DSP56F801EVM Kit

The DSP56F801EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F801 silicon and tools. It can be used standalone or in conjunction with our broad range of modular motion control development hardware. The DSP56F801EVM Kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents: • DSP56F801EVM Installation Guide • DSP56F801 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 parallel port cable DB25 male to DB25 female • Metrowerks CodeWarrior™ for Freescale DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F801EVM-ND **$338.09**

DSP56F803EVM Kit

The DSP56F803EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F803 silicon and tools. It can be used standalone or in conjunction with our broad range of modular motion control development hardware. The DSP56F803EVM Kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents: • DSP56F803EVM Installation Guide • DSP56F803 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 parallel port cable DB25 male to DB25 female • Metrowerks CodeWarrior™ for Freescale DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F803EVM-ND **$337.82**

DSP56F805EVM Kit

The DSP56F805EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F805 silicon and tools. It can be used standalone or in conjunction with our broad range of modular motion control development hardware. This kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents: • DSP56F805EVM Installation Guide and DSP56F805 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 parallel port cable DB25 male to DB25 female • Metrowerks CodeWarrior™ for Freescale DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F805EVM-ND **$337.95**

DSP56F807EVM Kit

The DSP56F807EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F807 silicon and tools. It can be used standalone or in conjunction with our broad range of modular motion control development hardware. This kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents: • DSP56F807EVM Installation Guide and DSP56F807 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 parallel port cable DB25 male to DB25 female • Metrowerks CodeWarrior™ for Freescale DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F807EVM-ND **$338.09**

DSP56309EVM Kit

The DSP56309 Evaluation Module (DSP56309EVM) is a low-cost platform for developing real-time software and hardware products to support a new generation of wireless, telecommunications and multimedia applications. The DSP56309EVM targets applications requiring a large amount of on-chip memory, such as wireless infrastructure applications. PC compatible computer (Pentium-90 MHz or higher) running Windows 95 (or higher) with an RS-232 serial port. Requires Power supply 7-9 VDC, 500mA, (not included) (recommended Digi-Key part number T353-P5P-ND).

Kit Contents:

• DSP56309EVM Board • GUI Debugger Software Disk • Assembler Linker-Test files disk • DSP56309EVM User's Manual and Other Documentation.

DSP56309EVM-ND........ **$310.95**

DSP56311EVM Kit

The DSP56311 Evaluation Module (EVM) is used to demonstrate the abilities of the DSP56311 device and provide a hardware tool to allow development of applications that use the DSP56311. The DSP56311EVM includes a DSP56311 device, peripheral expansion connectors, external memory and a voice codec. The peripheral expansion connectors allow for signal monitoring and user-feature expandability.

Kit Contents:

• DSP56311EVM Board • Parallel port extender cable • Plastic standoffs and plastic screws • DSP56300 Tools Software • Device and Tools Documentation • Tutorial/example software • DSP56311EVM Development Tools Release Notes • DSP56311EVM Product Installation Guide

DSP56311EVM-ND........ **$395.68**

DSP56F826EVM Kit

The DSP56F826EVM Kit is a low cost kit that contains everything you need to quickly evaluate the features and capabilities of the DSP56F826 silicon and tools. It can be used standalone, or in conjunction with our broad range of modular motion control development hardware. This kit is targeted for use on PC Compatible systems running Windows 95, Windows 98 and Windows NT 4.0.

Kit Contents:

• DSP56F826EVM Installation Guide and DSP56F826 Evaluation Module Board • 12 Volt universal switching mode power supply • IEEE 1284 parallel port cable DB25 male to DB25 female • Codec sample rate selector • Peripheral Daughter Card Expansion Connector to allow the user to connect his own SCI, SSI, SPI or GPIO compatible peripheral to the DSP • Memory Daughter Card Expansion Connector to allow the user to connect his own memory or memory device to the DSP • 16-Bit stereo codec interface • Metrowerks CodeWarrior™ for Freescale DSP evaluation CD-ROM (30 day) • Embedded Software Development Kit (SDK) CD-ROM

DSP56F826EVM-ND **$309.88**

DSP56L307EVM Kit

The DSP56L307 Evaluation Module (EVM) is used to demonstrate the abilities of the DSP56L307 and provide a hardware tool allowing the development of applications that use the DSP56L307. It is an evaluation module board that includes a DSP56L307 part, peripheral expansion connectors, external memory and a voice codec. The peripheral expansion connectors are used for signal monitoring and user-feature expandability. The DSP56L307EVM is used to facilitate the evaluation of various features of the DSP56L307. It can be used to develop real-time software and hardware products based on the DSP56L307. It provides the features necessary for a user to write and debug software, to demonstrate the functionality of that software and to be able to interface with the customer's application specific device(s). The DSP56L307EVM is flexible enough to allow the user to fully exploit the features of the DSP56L307.

Kit Contents:

• DS56L307EVM board • Parallel port extender cable • Plastic standoffs and plastic screws • Power supply, 12V, 1.2 Amps • Suite56 Software Development Tools CD-ROM • Documentation CD-ROM

DSP56L307EVM-ND **$452.20**

MC56F8300DSK Kit

The 56F8300 Developers Start Kit brings demonstration, evaluation and development capabilities to the 56F8300 series of hybrid controllers. This comprehensive kit includes a demonstration board that utilizes the 60 MIPS 56F8323 hybrid controller with on-chip oscillator to illustrate the enhanced capabilities of the 56F8300 series. It also features a built-in JTAG-to-parallel port command converter and comes with CodeWarrior™ Development Studio for 56800/E with Processor Expert technology. This multi-tiered tool allows development, compiling, linking and debugging applications with a complimentary permanent license (limited to 16 KB).

Kit Contents:

• MC56F8300DSK Board • Parallel cable, DB25, M/F • Universal 9VDC power supply • CodeWarrior™ CD for Freescale MC56F8300DSK • Software, training and documentation CD • Pre-programmed sample applications

MC56F8300DSK-ND **$79.00**

CodeWarrior™ Software

This industry-leading Integrated Development Environment (IDE) enables the engineer to generate highly optimized, ANSI-Compliant C and Assembly code.

Features:

• Processor Expert generator for on-chip peripherals • Full Chip simulation • Includes assembler, linker, debugger and flash programmer

License Type	Complier Code Size	Digi-Key Part No.	Price Each	Freescale Part No.
Node	Unlimited	CWS-H08-STDED-CX-ND	3184.02	CWS-H08-STDED-CX
Node	32K	CWS-H08-C32K-CX-ND	559.66	CWS-H08-C32K-CX
Node	64K	CWS-H08-C64K-CX-ND	1124.91	CWS-H08-C64K-CX
Node	Unlimited	CWS-H12-STDED-CX-ND	3982.02	CWS-H12-STDED-CX

NetBurner Networking in 1 Day!

Network Development Kits and Modules

NetBurner SB72 is designed for applications that require a high performance/low cost 10/100 Ethernet interface to serial devices. The SB72 come preloaded with software to translate serial and Ethernet data, and is configurable through any web browser. The SB72 application code can be customized to any specific application requirements with a network development kit.

NetBurner MOD5272 and **MOD5282** core modules (with Coldfire Processor from Freescale) are devices containing everything needed for design engineers to add network control and to monitor a company's communications assets. The modules solve the problem of network-enabling devices with 10/100 Ethernet, including those requiring digital, analog and serial control.

Kit Includes: • Development board • Adapter board • CD-ROM with software (source code, development tools, manuals) • Straight through and crossover network cables • 12V power supply

Description	Digi-Key Part No.	Price Each	Netburner Part No.
Development Kit - Serial	528-1000-ND	399.00	NNDK-SB72-KIT
Development Kit - Network for MOD5272	528-1001-ND	499.00	NNDK-MOD5272-KIT
Development Kit - Network for MOD5282	528-1002-ND	499.00	NNDK-MOD5282-KIT
Serial - Ethernet Board	528-1003-ND	139.00	SB72-300
Processor Module Flash MOD5272	528-1004-ND	139.00	MOD5272-100
Processor Module Flash MOD5282	528-1005-ND	145.00	MOD5282-100

Panasonic®

Flash Microcontrollers — 8-Bit

The MN101C series of 8-bit single-chip microcontroller incorporates multiple types of peripheral functions. This chip series is well suited for camera, VCR, MD, TV, CD, LD, printer, telephone, home automation products, pager, air conditioner, PPC remote control, fax machine, musical instrument and other applications. The MN101C series brings to embedded microcontroller applications flexible, optimized hardware configurations and simple efficient instruction set.

RAM (Bytes)	Flash (Bytes)	Timer/ Counter	I/O Pins	Speed (µs)	Operating Voltage (V)	Serial Interfaces	Interrupts	A/D Pins	D/A Pins	LCD	Package	Digi-Key Part No.	Price Each 1	25	100
1.5K	32K	8-Bit x 5 16-Bit x 2	39	0.1 0.118 0.235 62.5	3.0 ~ 3.6 2.7 ~ 3.6 1.8 ~ 3.6 1.8 ~ 3.6	Synchronous Type/UART x 2 Synchronous Type/ Single-Master I²C x 1 I²C Slave x 1	22	7	—	SEG 12 COM 4	48-TQFP	MN101CF78AXN-ND	9.41	8.48	7.52
6K	128K	8-Bit x 5 16-Bit x 1	53	0.1 0.2 62.5	2.5 ~ 3.6 2.1 ~ 3.6 1.8 ~ 3.6	Synchronous Type/UART x 2 Synchronous Type/ Single-Master I²C x 1 I²C Slave x 1	22	7	2	—	64-LQFP	MN101CF77GXN-ND	15.43	13.89	12.32
10K	224K	8-Bit x 6 16-Bit x 1	88	0.1 62.5	4.5 ~ 5.5 2.0 ~ 5.5	Synchronous Type x 1 Synchronous Type/UART x 2 Synchronous Type/ Single-Master I²C x 1	23	8	4	—	100-QFP	MN101CF49KXN-ND	17.49	16.33	15.16

AM1 Starter Kit

Introductory starter kit for the FLASH MEMORY version of an 8-bit 1-chip CPU manufactured by Matsushita Electric Industrial Co., Ltd.

Features:

• Equipped toggle-switches, serial communication function and LCD/LED display • C compiler and source code debugger • One-time C compiler upgrading is allowed from our website after purchasing • Simple debugger compatible with PanaX series with USB I/F • USB 1.1 for Host PC interface • Choice of USB 1.1 bus power or an external extension connector for power supply • CPU Board can be separately put in the evaluation system • Sample program and tutorial are included

Kit Contents:

• USB Cable • External connection cable • CD • Software license and product warranty • Quick start up guide and registration guide • C source code debugger (Debug Factory Builder AM1 Starter Kit) • C compiler • CPU manual and sample program (MN101CF49K/70G/78A) • Online help-setup manual

MMK01-C49-ND	Evaluation Kit for MN101CF49KXN	**$358.50**
MMK01-C77-ND	Evaluation Kit for MN101CF77GXN	**$358.50**
MMK01-C78-ND	Evaluation Kit for MN101CF78AXN	**$358.50**
MMB01-001-ND	Base Board for MN101C Evaluation Kit	**$295.50**
MMC01-C49-ND	CPU Board for MN101CF49KXN	**$148.50**
MMC01-C77-ND	CPU Board for MN101CF77GXN	**$148.50**
MMC01-C78-ND	CPU Board for MN101CF78AXN	**$148.50**

Dim. in mm

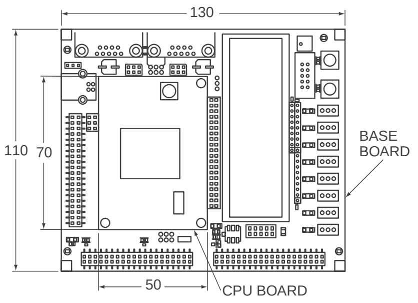

AM1 Debug Probe

Features:

• AM1 Debug Probe achieves onboard debugging by containing the debug monitor in the AM1 (MN101C) built-in flash memory of the user target and utilizing the AM1 (MN101C) serial port to communicate with PC. • The hardware of AM1 Debug Probe is common to AM1 (MN101C) series. When developing the other AM1 (MN101C) series, the new types can be added by purchasing the appropriate DebugFactory Builder. • Usable as a flash writer by programming the debug monitor in your AM1 (MN101C) in advance. • Simply started up with USB connection to PC. No external power supply is needed because AM1 Debug Probe operates by USB bus power.

Contents:

• AM1 Debug Probe • Target connection cable • USB cable • Integrated programming development tool "DebugFactory Builder" (supporting 1 type) • Debug monitor programmed AM1 chip

MDP01-C49-ND	Debug Probe for MN101CF49KXN	**$636.00**
MDP01-C77-ND	Debug Probe for MN101CF77GXN	**$636.00**
MDP01-C78-ND	Debug Probe for MN101CF78AXN	**$636.00**

DebugFactory Builder for AM1 Debug Probe

Features:

• Integrated development tool for the programming of AM1 (MN101C) series • Provides efficient debug environments, such as C source code leveled step execution, inspection, watching, breakpoint setting, etc. • Easy-to-switch with simple operation eases effective development work • Included with Evaluation Kits

Contents:

- Editor
- Make tool
- Debugger

MDS01-C49-ND	Debug Factory for MN101CF49KXN	**$358.50**
MDS01-C77-ND	Debug Factory for MN101CF77GXN	**$358.50**
MDS01-C78-ND	Debug Factory for MN101CF78AXN	**$358.50**

Kodak Image Sensors

CMOS Image Sensors

Specifications	KAC-9618	KAC-9619	KAC-9628	KAC-9630	KAC-9637	KAC-9638	KAC-9647	KAC-9648
Array Format Total (H x V) Active	664 x 504 648 x 488	664 x 504 648 x 488	664 x 504 648 x 488	128 x 101 128 x 98	672 x 488 648 x 488	1312 x 1032 1288 x 1032	672 x 488 648 x 488	1312 x 1032 1288 x 1032
Effective Image Area Total (H x V in mm) Total	4.98 x 3.78 4.86 x 3.66	4.98 x 3.78 4.86 x 3.66	4.98 x 3.78 4.86 x 3.66	2.56 x 2.00 2.36 x 1.92	2.93 x 4.03 2.93 x 3.89	6.30 x 7.83 6.27 x 7.81	2.93 x 4.03 2.93 x 3.89	6.30 x 7.83 6.27 x 7.81
Optical Format (Inch)	1/3	1/3	1/3	1/5	1/4	1/2	1/4	1/2
Pixel Size (µm)	7.5 x 7.5	7.5 x 7.5	7.5 x 7.5	20 x 20	6.0 x 6.0	6.0 x 6.0	6.0 x 6.0	6.0 x 6.0
Video Outputs (Bit Digital)	8, 10 and 12	8, 10 and 12	8, 10 and 12	8	8 and 10	8 and 10	8 and 10	8 and 10
Frame Rate (Frames per second)	30	30	30	580	68	18	68	18
Dynamic Range (dB linear mode) (dB non-linear mode)	62 110	62 110	62 110	48 —	57 —	57 —	57 —	57 —
Electronic Shutter	Rolling Reset	Rolling Reset	Rolling Reset	Global Reset	Rolling Reset	Rolling Reset	Rolling Reset	Rolling Reset
FPN (%)	0.1	0.1	0.1	0.5	0.5	0.5	0.5	0.5
PRNU (%)	1.5	1.5	1.5	1.3	1.7	1.7	1.7	1.7
Sensitivity (V/lux.s)	5	5	2.7	22	2.4	2.4	2.5	2.5
Quantum Efficiency (%)	27	27	27	—	—	—	—	—
Color Mosaic	—	—	Bayer Pattern	—	—	—	Bayer Pattern	Bayer Pattern
Fill Factor (%)	47	47	47	47	49	49	49	49
Package	48 CLCC	48 CLCC	48 CLCC	48 CLCC	32 CLCC	48 CLCC	32 CLCC	48 CLCC
Single Supply (V ±10%)	3.3	3.3	3.3	3.3	3.0	3.0	3.0	3.0
Power Consumption (mW)	120	120	120	100	130	150	130	150
Operating Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-10°C ~ 50°C	-10°C ~ 50°C	-10°C ~ 50°C	-10°C ~ 50°C

Sensors

Digi-Key Part No.	Price Each 1	25	100
KAC-9618-ND	25.05	23.38	21.71
KAC-9619-ND	26.25	24.50	22.75
KAC-9628-ND	26.25	24.50	22.75
KAC-9630-ND	13.95	11.96	10.61
KAC-9637-ND	14.66	13.68	12.71
KAC-9638-ND	27.60	25.76	23.92
KAC-9647-ND	21.15	19.74	18.33
KAC-9648-ND	35.25	32.90	30.55

Sensor Head Boards

A small PCB that houses the sensor together with all necessary discrete components. Either a C-Mount lens or an M12 lens can be mounted onto the head board. All head boards are compatible with the evaluation kit.

***Note:** Head Boards are not included with Evaluation Kit*

KAC-9618/HDBRD-ND	**$270.00**
KAC-9619/HDBRD-ND	**$270.00**
KAC-9628/HDBRD-ND	**$270.00**
KAC-9630/HDBRD-ND	**$270.00**
KAC-9637/HDBRD-ND	**$270.00**
KAC-9638/HDBRD-ND	**$270.00**
KAC-9647/HDBRD-ND	**$270.00**
KAC-9648/HDBRD-ND	**$270.00**

Sensor Lens Kits

1/5" lens kit for the KAC-9630 image sensor includes 2 lenses (single element plastic lens and low profile single element lens).

3F5394-ND **$105.00**

1/4" lens kit for the KAC-9637 and 9647 image sensors includes 4 lenses (single element low profile lens, three and four element hybrid lens, four element low profile lens).

3F5395-ND **$105.00**

Sensor Evaluation Kit

This software/hardware solution is designed to give the system designer a complete raw data evaluation toolset. It allows the system designer to evaluate the performance of the imager and explore its many built-in features. A standard PC monitor can be directly connected to the system, enabling the display of full resolution video at 30 frames per second. Snapshots of any scene can be taken and the raw data of the captured image can be downloaded to a PC through the parallel port. Also included is SNAPS image processing software, which can be used to view and apply different image processing algorithms to the raw data of a captured image.

KAC-96XXEVAL-KIT-ND **Kit Contents:** • Dual-board base • C-mount block • C-mount lens • Power supply • Cables. **$2992.50**

Micron

CMOS Image Sensors

VGA

Micron's VGA resolution sensors feature a resolution of 640 X 480 and offer on-chip camera functions and very low power consumption for extending battery life. Plus, variable functions; including gain, frame rate, and exposure; can be programmed through a simple two-wire serial interface.

Optical Format	Array	Resolution	Color Filter	Supply Voltage	Frame Rate (fps)	Package	Digi-Key Part No.	Price Each 1	5	10	Micron Part No.
1/4"	640H x 480V	VGA	Color	2.8	30-90	44-ICSP	557-1147-ND	25.65	22.05	21.03	MT9V111I99STC
1/4"	640H x 480V	VGA	Color	2.8	30(NTSC) 25(PAL)	52-IBGA	557-1167-ND	34.94	28.64	27.20	MT9V125IA7ATC
1/2"	659H x 494V	VGA	Mono	3.3	0-200	48-CLCC	557-1148-ND	243.44	223.55	217.09	MT9V403C12STM
1/2"	659H x 494V	VGA	Color	3.3	0-200	48-CLCC	557-1149-ND	279.24	256.43	249.02	MT9V403C12STC
1/3"	750H x 480V	W-VGA	Color	3.3	60-200	52-IBGA	557-1166-ND	33.19	27.21	25.84	MT9V022IA7ATC

Megapixel

Micron's megapixel-resolution sensors combine the image quality of CCD technology with the compact size, adaptability, and ease-of-design of CMOS. CMOS-based technology can simplify camera designs compared to conventional CCD technology, thereby enabling designers to create smaller, high-performance applications with shorter development periods.

Optical Format	Array	Resolution	Color Filter	Supply Voltage	Frame Rate (fps)	Package	Digi-Key Part No.	Price Each 1	5	10	Micron Part No.
1/2"	1,280H x 1,024V	1.3 MP	Mono	3.3	30	48-CLCC	557-1151-ND	25.68	23.13	21.97	MT9M001C12STM
1"	1,280H x 1,024V	1.3 MP	Mono	3.3	500	280-PGA	557-1153-ND	1199.41	1129.91	1103.61	MT9M413C36STM
1"	1,280H x 1,024V	1.3 MP	Color	3.3	500	280-PGA	557-1152-ND	1439.31	1355.91	1324.35	MT9M413C36STC
1/2"	2,048H x 1,536V	3 MP	Color	3.3	12-93	48-PLCC	557-1164-ND	33.19	27.21	25.84	MT9T001P12STC

Image Sensor Evaluation Kits

Micron Imaging's Demonstration system family supports the full line of Micron's CMOS image sensor products. Several software applications are provided with the demonstration system, which allows the user to display the data from the sensor on the host computer, and to change some basic settings of the sensor for evaluation purposes. A Software Development Kit (SDK) is also provided to customers who wish to write their own software applications to access the sensor on the Demo System.

Kit Includes: • Imaging Demo Camera Board • Sensor Head with Lens • USB 2.0 Cable • Tripod • Software • Users Manual

557-1156-ND	For use with MT9M001	**$1091.84**
557-1161-ND	For use with MT9V111	**$1091.84**
557-1168-ND	For use with MT9V125	**$1124.33**
557-1171-ND	For use with MT9V403, Monochrome	**$5764.28**
557-1170-ND	For use with MT9V403, Color	**$5764.28**
557-1163-ND	For use with MT9T001	**$1124.33**
557-1159-ND	For use with MT9M413, Monochrome	**$7975.89**
557-1157-ND	For use with MT9M413, Color	**$7975.89**
557-1160-ND*	For use with MT9M413, Monochrome	**$10634.52**
557-1158-ND*	For use with MT9M413, Color	**$10634.52**

***** With Frame Grabber

Sensor Head Boards

The Sensor Head Boards include the image sensor and lens mounted with all necessary components.

The sensor head boards will connect to the Demo02 board (not included) to make a complete development system.

557-1162-ND	For use with MT9V111	**$323.00**
557-1165-ND	For use with MT9T001	**$340.00**
557-1169-ND	For use with MT9V125	**$323.00**

Analog Devices Line Card

Amplifiers and Comparators

- Buffer Amplifiers
- Comparators
- Current Sense Amplifiers
- Differential Amplifiers
- Fiber Optic/Limiting Amplifiers
- Fiber Optic Transimpedance Amplifiers
- Gain Control Amplifiers
- Instrumentation Amplifiers
- Isolation Amplifiers
- LCD Drivers
- Line Drivers
- Operational Amplifiers (Op Amps)
- Variable Gain Amplifiers

Analog-to-Digital Converters

- Audio A/D Converters
- Energy Measurement
- Synchro/Resolver-to-Digital Converters
- Temperature-to-Digital Converters
- Video Decoders
- Voltage-to-Frequency Converters

Digital-to-Analog Converters

- Audio D/A Converters
- Digital Potentiometers
- Video Encoders

Embedded Processing & DSP

- Blackfin® Processor
- TigerSHARC® Processor
- SHARC® Processor
- ADSP-21xx Processor
- Development Tools

Analog Microcontrollers

MEMS and Sensors

- iMEMS® Accelerometers
- iMEMS Gyroscopes
- Analog Temperature Sensors
- Digital Temperature Sensors

RF/IF Components

- Baseband Processing
- CATV Amps/Splitters
- Clock and Data Recovery/Retiming
- Clock Distribution
- Differential Amplifiers
- Digital Crosspoint Switches
- Direct Digital Synthesis (DDS)
- Fiber Optic EA Modulator Drivers
- Fiber Optic Laser Drivers
- Fiber Optic/Limiting Amplifiers
- Fiber Optic Transimpedance Amplifiers
- Gain Blocks
- Log Amps/Detectors
- Mixers/Multipliers
- Modulators/Demodulators
- PLL Synthesizers/VCOs
- RF/IF Transceivers
- RF Switches
- RMS Detectors
- Short Range Transmitters
- Variable Gain Amplifiers

Switches/Multiplexers

- Analog Crosspoint Switches
- Analog Switches
- Digital Crosspoint Switches
- Digital Switches
- Multiplexers (Muxes)
- RF Switches

Interface

- Isolators
- Level Translators
- Line Drivers
- RS-232
- RS-485
- Transceivers

Power & Thermal Management

- Analog Temperature Sensors
- Battery Chargers
- Charge Pumps
- Digital Temperature Sensors
- GSM Power Controllers
- Hot Swap Controllers
- LED Drivers
- Linear Regulators
- MOSFET Drivers
- Power Supply Controllers
- Power Supply Sequencers
- Supervisory
- Switching Controllers
- Switching Regulators
- System Monitoring Products
- Temperature Setpoint Controllers

References

- Voltage References

Other Linear

- Analog Multipliers/Dividers
- Hall Effect Sensors
- LVDT Sensor Amplifiers
- Matched Transistors
- RMS-to-DC Converters
- Sample/Track-and-Hold Amplifiers

Audio/Video Products

- Audio A/D Converters
- Audio CODECs
- Audio D/A Converters
- Audio Signal Processors
- Camera/Camcorder Analog Front Ends
- Display Interfaces
- Sample Rate Converters
- Video CODECs
- Video Compression
- Video Decoders
- Video Encoders

Broadband Products

- Broadband Amplifiers
- DSL Chipsets

Wireless Products

- Cellular Terminal Chipsets
- DDS Modulators
- Digital Up/Down Converters

Other

- Automatic Test Equipment
- IOS Subsystems
- Military/Aerospace
- Modems

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ANALOG DEVICES

www.analog.com

Blackfin is Embedded Linux

STAMP uClinux Kernel Board Support Package for the Analog Devices ADSP-BF537 Blackfin Processor

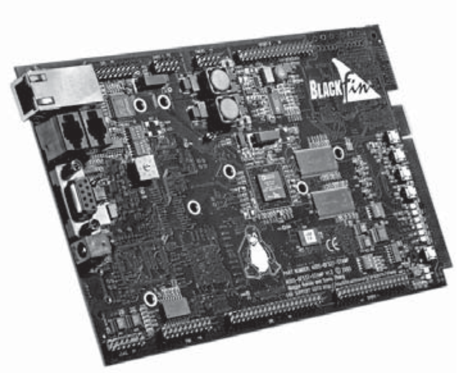

The ADSP-BF537 STAMP Board Support Package (BSP) provides developers with a cost effective environment to develop embedded systems with the Blackfin® Processor. The STAMP BSP has been specifically designed to support the development and porting of open source uClinux applications and includes the full complement of memory along with serial and network interfaces.

The BSP includes an ADSP-BF537 STAMP board and a CD with a recent copy of the Blackfin open source development tools and uClinux Kernel, documentation, board schematics, gerbers, and layout files. There are several Analog Devices daughter cards available for use with the STAMP board. Three separate SPI ADC daughter cards are available - AD7476, AD7476A, and AD7940 - each one providing an analog input interface. In addition, an AD1836 daughter card is available that provides an audio interface. Look out for additional daughter cards in the future with various other interfaces such as video and analog input/output.

For the most recent versions of tools and documentation, visit the uClinux for Blackfin web site: http://blackfin.uclinux.org. This web site is the central repository for all Blackfin open source projects. Several projects based on the STAMP board and daughter cards are posted here including: a networked audio media node, a networked oscilloscope, and a port of Linphone using the Speex voice codec.

The ADSP-BF537 STAMP BSP will have you up and running with uClinux on the Blackfin right out of the box.

Part Number: ADDS-BF537-STAMP

The Blackfin Processor is Supported by Analog Devices Line of Robust and Flexible Development Tools

VisualDSP++®

VisualDSP++ delivers efficient project management, enabling programmers to move easily between editing, building, and debugging within a single interface.

Key features include:

- Optimizing C/C++ compiler
- Advanced plotting tools
- Embedded OS support (VDK)
- Award-winning statistical profiling
- TCP/IP and USB support
- Free software upgrades
- Free technical support

EZ-Extender®

A variety of Blackfin EZ-Extender daughter boards are available that allow developers to connect to a number of Analog Devices High Speed Converter (HSC) evaluation boards, camera evaluation boards, and external displays. Some of the EZ-Extenders contain a USB 2.0 interface and 10/100 Ethernet MAC and advanced audio and video circuitry.

EZ-KIT Lite® Evaluation Platform

A cost-effective method for initial evaluation and for learning more about ADI hardware and software development and prototype applications.

Green Hills® Software (GHS)

Along with Analog Devices, Green Hills Software has developed a multiyear product road map for hardware and software development tools, providing full support for the Blackfin Processor.

These include:

- MULTI® Integrated Development Environment (IDE)
- C, C++, and EC++ compilers
- Green Hills® Probe and Slingshot™ Hardware Debug Devices
- INTEGRITY® Real-Time Operating System
- *velOSity*™ Microkernel

From simulation to deployment, GHS technology saves time throughout a project development life cycle with powerful features and an efficient design that eliminates having to learn different tools and user interfaces.

Emulators

Analog Devices offers two High Performance (HP) emulator options for the Blackfin Processor. The HP PCI based emulator and the HP USB 2.0 based emulator deliver seamless exchange of real-time data from the host to the target application. These emulators are designed to take advantage of advanced features, such as the Background Telemetry Channel (BTC), a non-intrusive method for exchanging data between the host and target application without affecting the target system's real-time extended support characteristics.

Analog Devices also offers a USB 1.0 based emulator for the Blackfin Processor. This emulator offers the ease of use and portability associated with USB technology at a reduced price point.

Blackfin Test Integration Toolkit for NI LabVIEW

National Instruments LabVIEW toolkit provides a high level method for easily building test systems and utilities for Blackfin Processor systems.

By integrating testing, engineers can iteratively verify their design throughout the development process.

Early use of the Test Integration Toolkit reduces overall development time and improves the quality of products that use the Blackfin Processor.

LabVIEW Embedded Module for Blackfin Processors

The NI LabVIEW™ Embedded Module for Analog Devices Blackfin® Processors is a comprehensive graphical development environment for embedded design.

Jointly developed by ADI and NI, this module seamlessly integrates the LabVIEW Development Environment and Blackfin Embedded Processors.

Included in the LabVIEW Embedded Module is everything required to develop your application quickly in LabVIEW and ultimately target a custom-developed hardware solution, taking designs from concept to production in a single integrated development environment.

By using this approach, engineers and scientists can achieve faster development times, lower development cost, and still deliver a high performance embedded processing solution.

For more information: www.analog.com/processors

ANALOG DEVICES

Digital Signal Processors

ADI's embedded architectures feature simple yet powerful programming models and are supported by high quality development tools.

Blackfin® Processors: A new breed of embedded media processor designed specifically to meet the computational demands and power constraints of today's embedded audio, video and communications applications. Blackfin Processors combine a 32-bit RISC-like instruction set and dual 16-bit Multiply Accumulate signal processing functionality with the ease-of-use attributes found in general purpose microcontrollers.

TigerSHARC® Processors: This family offers the industry's highest performance per watt and per square inch of board space for the most demanding signal and image processing applications. The TigerSHARC's patented link port technology allows glueless interprocessor communication with arrays of two or more TigerSHARC Processors.

SHARC® DSPs: Using ADI's "Super" Harvard architecture, the SHARC family is optimized to enable a variety of real-time embedded signal processing applications and is known as a leader in premium audio applications.

ADSP-21xx/2199x and Mixed-Signal DSPs: The ADSP-21xx family architecture is built around a common instruction set architecture. All family members are code-compatible, fixed-point 16-bit DSPs. In addition, the ADSP-2199x family of mixed-signal DSPs provides a single-chip solution with signal processing and 14-bit ADC mixed signal integration.

MMACs Max.	Memory (kBytes)	External Memory Bus	PCI	USB Device	UARTs Timers	Watchdog Timer/RTC	Core Voltage (V) Max.	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Evaluation Platform	Development Software
Blackfin® Processors															
800	52	16-bit	No	No	Yes	Yes	1.2	400	160-MBGA	ADSP-BF531SBBCZ400-ND†	15.00	14.00	13.00	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	52	16-Bit	No	No	Yes	Yes	1.2	400	169-BGA	ADSP-BF531SBBZ400-ND†	19.65	18.34	17.03	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	52	16-Bit	No	No	Yes	Yes	1.2	400	176-LQFP	ADSP-BF531SBST400-ND	16.49	14.85	13.17	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	52	16-Bit	No	No	Yes	Yes	1.2	400	176-LQFP	ADSP-BF531SBSTZ400-ND†	16.49	14.85	13.17	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	84	16-Bit	No	No	Yes	Yes	1.2	400	Mini BGA	ADSP-BF532SBBC400-ND	15.20	14.19	13.17	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	84	16-Bit	No	No	Yes	Yes	1.2	400	160-MBGA	ADSP-BF532SBBCZ400-ND†	15.20	14.19	13.17	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	84	16-Bit	No	No	Yes	Yes	1.2	400	169-BGA	ADSP-BF532SBBZ400-ND†	20.15	18.81	17.46	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
800	84	16-Bit	No	No	Yes	Yes	1.2	400	176-LQFP	ADSP-BF532SBSTZ400-ND†	15.20	14.19	13.17	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
1000	148	16-Bit	No	No	Yes	Yes	1.4	500	160-MBGA	ADSP-BF533SBBCZ500-ND†	26.22	24.48	22.73	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
1000	148	16-Bit	No	No	Yes	Yes	1.4	500	169-BGA	ADSP-BF533SBBZ500-ND†	30.27	28.26	26.24	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
1200	148	16-Bit	No	No	Yes	Yes	1.4	600	160-MBGA	ADSP-BF533SKBCZ600-ND†	32.30	30.15	27.99	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
700	308	32-Bit	Yes	Yes	Yes	Yes	1.6	300	260-BGA	ADSP-BF535PKB-300-ND	55.50	51.80	48.10	ADDS-BF535-EZLITE	VDSP-BLKFN-PC-FULL
700	308	32-Bit	Yes	Yes	Yes	Yes	1.6	350	260-BGA	ADSP-BF535PKB-350-ND	69.38	64.75	60.13	ADDS-BF533-EZLITE	VDSP-BLKFN-PC-FULL
3000	328	32-Bit	No	No	Yes	Yes/No	1.2	750	297-BGA	ADSP-BF561SBB600-ND	44.45	41.49	38.52	ADDS-BF561-EZLITE	VDSP-BLKFN-PC-FULL

† RoHS Compliant

Blackfin® DSP uClinux Kernel Board Support Package for the ADSP-BF537/533 Processor

The STAMP includes an ADSP-BF533 development board and a recent copy of the open source development tools (GCC 3.3.x) and the uClinux 2.6.x Kernel. The CD also includes documentation and the board schematics, Gerbers, and layout files. The latest version of all the tools can be found on the http://blackfin.uclinux.org website.

ADDS-BF537-STAMP-ND **$226.10**

Daughter Boards

AD7476A-DBRD-ND	Evaluation Board for AD7476A	**$37.50**
AD7476-DBRD-ND	Evaluation Board for AD7476	**$37.50**
AD7940-DBRD-ND	Evaluation Board for AD7940 Stamp SPI	**$45.00**
AD1836A-DBRD-ND	Evaluation Board for AD1836A	**$120.00**

MMACs	On-Chip Memory (M-Bit)	External Memory (M-Bit)	Parallel Bus	Core Voltage / IO (V)	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Evaluation Platform	Development Software
TigerSHARC® Processors												
2000	6	32/64	Yes	1.2/3.3	250	625-BGA	ADSP-TS101SAB1000-ND	304.50	284.20	263.90	ADDS-TS101S-EZLITE	VDSP-TS-PC-FULL
2000	6	32/64	Yes	1.2/3.3	250	484-BGA	ADSP-TS101SAB2000-ND	304.50	284.20	263.90	ADDS-TS101S-EZLITE	VDSP-TS-PC-FULL
2400	6	32/64	Yes	1.2/3.3	300	484-BGA	ADSP-TS101SAB2100-ND	363.00	338.80	314.60	ADDS-TS101S-EZLITE	VDSP-TS-PC-FULL
2400	6	32/64	Yes	1.2/3.3	300	625-BGA	ADSP-TS101SAB1100-ND	363.00	338.80	314.60	ADDS-TS101S-EZLITE	VDSP-TS-PC-FULL

MMACs	MFLOPs	On-Chip SRAM (M-Bit)	On-Chip ROM (M-Bit)	Serial Ports	Link Ports	Core Voltage (V)	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Evaluation Platform	Development Software
SHARC® DSPs														
33	99	4	0	2	6	5	33	240-MQFP	ADSP-21060KS-133-ND	424.05	395.78	367.51	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	4	0	2	6	5	40	240-MQFP	ADSP-21060KS-160-ND	534.83	499.17	463.52	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	4	0	2	6	5	40	240-MQFP	ADSP-21060KSZ-160-ND†	534.83	499.17	463.52	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	4	0	2	6	3.3	40	240-CQFP	ADSP-21060LCW-160-ND	1025.70	957.32	888.94	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	4	0	2	6	3.3	40	240-CQFP	ADSP-21060LCWZ-160-ND†	1025.70	957.32	888.94	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	4	0	2	6	3.3	40	225-BGA	ADSP-21060LKB-160-ND	615.06	574.06	533.06	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
33	99	1	0	2	0	5	33	240-MQFP	ADSP-21061KS-133-ND	94.59	88.29	81.98	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	1	0	2	0	5	40	240-MQFP	ADSP-21061KSZ-160-ND†	98.24	91.69	85.14	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	1	0	2	0	3.3	40	225-BGA	ADSP-21061LKB-160-ND	74.58	69.61	64.64	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	1	0	2	0	3.3	40	240-MQFP	ADSP-21061LKSZ-160-ND†	63.68	59.43	55.19	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
44	132	1	0	2	0	3.3	44	240-MQFP	ADSP-21061LKSZ-176-ND†	74.58	69.61	64.64	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
33	99	2	0	2	0	5	33	240-MQFP	ADSP-21062KSZ-133-ND†	170.21	158.86	147.52	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	2	0	2	0	5	40	240-MQFP	ADSP-21062KS-160-ND	194.84	181.85	168.86	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	2	0	2	0	3.3	40	240-MQFP	ADSP-21062LCS-160-ND	276.96	258.50	240.04	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	2	0	2	6	3.3	40	225-BGA	ADSP-21062LKB-160-ND	242.58	226.41	210.24	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	2	0	2	6	3.3	40	225-BGA	ADSP-21062LKBZ-160-ND†	242.58	226.41	210.24	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
40	120	2	0	2	6	3.3	40	240-MQFP	ADSP-21062LKSZ-160-ND†	221.57	206.80	192.03	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL
60	180	0.5	0	2	0	3.3	60	208-MQFP	ADSP-21065LCSZ-240-ND†	67.50	63.00	58.50	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
60	180	0.5	0	2	0	3.3	66	196-MBGA	ADSP-21065LKCAZ240-ND†	63.75	59.50	55.25	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
66	198	0.5	0	2	0	3.3	66	196-MBGA	ADSP-21065LKCAZ264-ND†	66.30	61.88	57.46	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
60	180	0.5	0	2	0	3.3	66	208-MQFP	ADSP-21065LKSZ-240-ND†	40.50	37.80	35.10	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
66	198	0.5	0	2	0	3.3	66	208-MQFP	ADSP-21065LKSZ-264-ND†	64.50	60.20	55.90	ADDS-21065L-EZLITE	VDSP-SHARC-PC-FULL
160	480	4	0	2	6	2.5	80	400-BGA	ADSP-21160MKBZ-80-ND†	295.35	275.66	255.97	ADDS-21160-EZLITE	VDSP-SHARC-PC-FULL
200	600	4	0	2	6	1.9	100	400-BGA	ADSP-21160NCB-100-ND	315.15	294.14	273.13	ADDS-21160-EZLITE	VDSP-SHARC-PC-FULL
200	600	4	0	2	6	1.9	100	400-BGA	ADSP-21160NKB-100-ND	295.35	275.66	255.97	ADDS-21160-EZLITE	VDSP-SHARC-PC-FULL
200	600	1	0	4	2	1.8	100	225-MBGA	ADSP-21161NCCA100-ND	50.37	47.02	43.66	ADDS-21161N-EZLITE	VDSP-SHARC-PC-FULL
200	600	1	0	4	2	1.8	100	225-MBGA	ADSP-21161NKCA100-ND	41.97	39.18	36.38	ADDS-21161N-EZLITE	VDSP-SHARC-PC-FULL
400	1200	2	4	6	0	1.2	200	144-LQF	ADSP21262SKBCZ200-ND†	27.51	25.68	23.85	ADDS-21262-EZLITE	VDSP-SHARC-PC-FULL

† RoHS Compliant

(Continued)

Program RAM Words (KWords)	Data RAM Words (KWords)	External Memory Bus (Bits)	Host Port	SPORT	SPI / UART	Timers	Core Voltage (V)	ADC	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each 1	25	100	Evaluation Platform	Development Software
											ADSP-21xx/2199x and Mixed-Signal DSPs					
2	1	24	No	2	No	1	5	—	25	68-PLCC	ADSP-2101BPZ-100-ND†	46.70	43.59	40.47	—	VDSP-21XX-PC-FULL
2	1	24	No	2	No	1	5	—	25	80-PQFP	ADSP-2101BS-100-ND	53.72	50.14	46.56	—	VDSP-21XX-PC-FULL
1	0.5	24	No	1	No	1	5	—	20	68-PLCC	ADSP-2105BPZ-80-ND†	21.36	19.94	18.52	—	VDSP-21XX-PC-FULL
2	1	24	Yes	2	No	1	5	—	20	100-PGA	ADSP-2111BG-80-ND	245.64	229.27	212.89	—	VDSP-21XX-PC-FULL
1	0.5	24	No	2	No	1	5	—	25	68-PLCC	ADSP-2115BP-100-ND	29.78	27.79	25.81	—	VDSP-21XX-PC-FULL
2	2	24	Yes	2	No	1	5	—	33.3	128-PQFP	ADSP-2171BS-133-ND	67.83	63.31	58.79	—	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	128-PQFP	ADSP-2181BSZ-133-ND†	41.84	39.05	36.26	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	128-TQFP	ADSP-2181BSTZ-133-ND†	46.49	43.39	40.29	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	128-PQFP	ADSP-2181KS-133-ND	41.84	39.05	36.26	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	128-PQFP	ADSP-2181KSZ-133-ND†	41.84	39.05	36.26	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	128-TQFP	ADSP-2181KSTZ-133-ND†	46.49	43.39	40.29	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	40	128-PQFP	ADSP-2181KSZ-160-ND†	46.49	43.39	40.29	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	40	128-TQFP	ADSP-2181KSTZ-160-ND†	46.49	43.39	40.29	ADDS-2181-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	28.8	128-LQFP	ADSP-2183BST-115-ND	43.82	40.90	37.98	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	40	128-LQFP	ADSP-2183BST-160-ND	48.20	44.99	41.77	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	52	128-LQFP	ADSP-2183KST-210-ND	48.20	44.99	41.77	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	52	128-LQFP	ADSP-2183KSTZ-210-ND†	48.20	44.99	41.77	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
4	4	24	No	2	No	1	5	—	40	100-LQFP	ADSP-2184BSTZ-160-ND†	16.50	15.40	14.30	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
4	4	24	No	2	No	1	3.3	—	40	100-LQFP	ADSP-2184LBST-160-ND	16.50	15.40	14.30	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	28.8	100-LQFP	ADSP-2185KSTZ-115-ND†	38.04	35.51	32.97	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	100-TQFP	ADSP-2185BST-133-ND	46.01	42.94	39.88	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	100-LQFP	ADSP-2185BSTZ-133-ND†	41.82	39.04	36.25	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	100-TQFP	ADSP-2185KST-133-ND	41.84	39.05	36.26	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	5	—	33.3	100-LQFP	ADSP-2185KSTZ-133-ND†	41.84	39.05	36.26	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	33.3	100-LQFP	ADSP-2185LBST-133-ND	43.82	40.90	37.98	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	No	2	No	1	3.3	—	40	100-LQFP	ADSP-2185LBST-160-ND	48.20	44.99	41.77	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	2.5	—	66	100-LQFP	ADSP-2185MBST-266-ND	18.98	17.71	16.45	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	2.5	—	75	100-LQFP	ADSP-2185MKST-300-ND	18.98	17.71	16.45	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2185NKST-320-ND	18.57	17.34	16.10	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
16	16	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2185NKSTZ-320-ND†	18.57	17.34	16.10	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
8	8	24	Yes	2	No	1	5	—	28.8	100-LQFP	ADSP-2186KST-115-ND	28.52	26.62	24.72	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
8	8	24	Yes	2	No	1	5	—	28.8	100-LQFP	ADSP-2186KSTZ-115-ND†	28.52	26.62	24.72	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
8	8	24	No	2	No	1	5	—	33.3	100-LQFP	ADSP-2186KSTZ-133-ND†	31.37	29.28	27.19	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
8	8	24	Yes	2	No	1	2.5	—	75	100-LQFP	ADSP-2186MKST-300-ND	16.49	14.85	13.17	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
8	8	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2186NBST-320-ND	15.58	14.03	12.44	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	34	Yes	2	No	1	3.3	—	52	100-TQFP	ADSP-2187LBSTZ-210-ND†	70.64	65.93	61.22	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	34	Yes	2	No	1	3.3	—	52	100-TQFP	ADSP-2187LKST-210-ND	64.20	59.92	55.64	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2187NKST-320-ND	33.00	30.80	28.60	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2187NKSTZ-320-ND†	33.00	30.80	28.60	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
48	56	24	Yes	2	No	1	2.5	—	75	100-LQFP	ADSP-2188MKST-300-ND	52.80	49.28	45.76	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	48	24	Yes	2	No	1	2.5	—	66	100-LQFP	ADSP-2189MBST-266-ND	43.73	40.81	37.90	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	48	24	Yes	2	No	1	2.5	—	75	100-LQFP	ADSP-2189MKSTZ-300-ND†	43.73	40.81	37.90	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	48	24	Yes	2	No	1	1.8	—	80	144-MBGA	ADSP-2189NBSTZ-320-ND†	41.25	38.50	35.75	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	48	24	Yes	2	No	1	1.8	—	80	100-LQFP	ADSP-2189NKST-320-ND	41.25	38.50	35.75	ADDS-2189M-EZLITE	VDSP-21XX-PC-FULL
32	32	16	Yes	3	Yes	3	2.5	—	160	144-LQFP	ADSP-2191MKSTZ-160-ND†	30.59	28.55	26.51	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
16	16	16	Yes	3	Yes	3	2.5	—	140	144-LQFP	ADSP-2195MBST-140-ND	25.23	23.55	21.87	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
16	16	16	Yes	3	Yes	3	2.5	—	160	144-LQFP	ADSP-2195MKST-160-ND	25.23	23.55	21.87	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
8	8	16	Yes	3	Yes	3	2.5	—	140	144-LQFP	ADSP-2196MBST-140-ND	20.15	18.81	17.46	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
8	8	16	Yes	3	Yes	3	2.5	—	160	144-LQFP	ADSP-2196MKST-160-ND	20.15	18.81	17.46	ADDS-2191-EZLITE	VDSP-21XX-PC-FULL
4	4	24	Yes	1	Yes	3	2.5	Dual Ch., 14-Bit 20 MSPS	160	176-LQFP	ADSP-21990BST-ND	36.11	33.70	31.30	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL
32	8	24	Yes	1	Yes	3	2.5	Dual Ch., 14-Bit 20 MSPS	160	176-LQFP	ADSP-21991BST-ND	42.29	39.47	36.65	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL
32	16	24	Yes	1	Yes	3	2.5	Dual Ch., 14-Bit 20 MSPS	160	176-LQFP	ADSP-21992BSTZ-ND†	46.41	43.32	40.23	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL
32	16	24	Yes	1	Yes	3	2.5	Dual Ch., 14-Bit 20 MSPS	100	176-LQFP	ADSP-21992YST-ND	46.41	43.32	40.23	ADDS-21992-EZLITE	VDSP-21XX-PC-FULL

† RoHS Compliant

(Continued)

VisualDSP++™ Integrated Development Environment

VisualDSP++ is an easy to install and easy to use integrated software development and debugging environment that enables efficient management of projects from start to finish from within a single interface. VisualDSP++ supports all Analog Devices processor families.

Contents: • Assembler • Linker • Simulator • C/C++ compiler • Debugger • PROM splitter • Graphical plotting • Expert Linker • Math, DSP and C/C++ runtime library • Integrated development environment • VisualDSP++ Kernel • Statistical profiling • VisualDSP++ Component Software Engineering *(**Note:** ADSP-218x does not have C++ support.)*

VDSP-21XX-PC-FULL-ND	**$3500.00**
VDSP-BLKFN-PCFULL-ND	**$3500.00**
VDSP-BLKFNPCFLOAT-ND	**$4250.00**
VDSP-SHARC-PCFULL-ND	**$3500.00**
VDSP-TS-PC-FULL-ND	**$3500.00**

Emulator Development Tools

All emulators require VisualDSP++software for the corresponding processor.

ADDS-218X-ICE2.5V-ND	**$2543.63**
ADDS-HPPCI-ICE-ND	**$5100.00**
ADDS-HPUSB-ICE-ND	**$4250.00**
ADDS-USB-ICE-ND	**$1275.00**

EZ-KIT Lite™ Evaluation Kit

The EZ-KIT Lite provides an easy way to evaluate the power of ADI's processors and begin to develop applications.

Kit Contents:
• Stand-alone evaluation board • Evaluation suite of VisualDSP++ to facilitate architecture evaluations via a PC-hosted tool set.

EZ-KIT Lite users can:
• Evaluate ADI's processors • Learn about DSP applications • Simulate and debug applications • Prototype applications

ADDS-2181-EZLITE-ND	**$312.38**
ADDS-21065LEZLITE-ND	**$381.23**
ADDS-21161NEZLITE-ND	**$495.00**
ADDS-21262-EZLITE-ND	**$525.94**
ADDS-21992-EZLITE-ND	**$495.00**
ADDS-BF533-EZLITE-ND	**$400.00**
ADDS-BF535-EZLITE-ND	**$295.00**
ADDS-BF537-EZLITE-ND	**$371.88**
ADDS-BF561-EZLITE-ND	**$525.94**
ADDS-TS101SEZLITE-ND	**$995.00**
ADDSTS201SEZLITE-ND	**$995.00**
ADDS-BF-EZEXT-1-ND Daughter Board for BF533/561 Kit	**$195.00**
ADDS-BFAV-EZEXT-ND	**$254.36**

DSP Based Motor Control Applications (ADSP-2100 Family Code Compatible)

ADMC331ADVEVALKIT-ND	**$521.40**
ADMC401ADVEVALKIT-ND	**$521.40**

Program RAM	Program ROM	Data RAM	Program FLASH	Voltage Reference	Clock (MHz)	Package	Digi-Key Part No.		Price Each	
								1	25	100
4K x 24-Bit	2K x 24-Bit	1K x 16-Bit	—	2.5V	25	80-TQFP	ADMC300BST-ND	32.93	30.73	28.54
4K x 24-Bit	2K x 24-Bit	1K x 16-Bit	—	2.5V	25	80-TQFP	ADMC300BSTZ-ND†	32.93	30.73	28.54
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	28-DIP	ADMCF326BN-ND	27.12	25.32	23.51
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	28-SOIC	ADMCF326BR-ND	22.31	20.82	19.34
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	28-SOIC	ADMCF328BR-ND	22.31	20.82	19.34
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	64-LQFP	ADMCF340BST-ND	25.77	24.06	22.34
512 x 24-Bit	4K x 24-Bit	512 x 16-Bit	4K x 24-Bit	2.5V	20	28-SOIC	ADMCF341BR-ND	24.56	22.92	21.29
2K x 24-Bit	2K x 24-Bit	1K x 16-Bit	—	2.5V	26	144-LQFP	ADMC401BSTZ-ND†	41.18	38.43	35.69

† *RoHS Compliant*

Precision Analog Microcontrollers

MicroConverter™ ICs were the first to integrate true 12-bit to 24-bit analog precision ADCs, in-circuit reprogrammable Flash/EE memory and an on-chip 8052 or ARM core. Applications include industrial, instrumentation, communications, and automotive control.

Features: Precision Analog: • 12-bit to 24-bit ADC resolution • Sample rates up to 1Msps • Flexible ADC input multiplexing • Programmable gain differential inputs • Self-calibration • On-chip 2.5V band gap reference • Single, dual or quad rail-to-rail DAC

Integrated Programmable Peripherals: • 8052 or ARM7 MCU core (up to 45 MIPS) • Flash/EE code memory (up to 62k) • Flash/EE data memory (up to 4k) • RAM (up to 8k) • Flexible SPI, I^{2}C, and UART serial ports • High speed baud rate generator • Multiple PWM outputs

Program Memory (Kbytes)	Flash Data (Bytes)	RAM (Bytes)	I/O	ADC	DAC	PWM (16-Bit)	Timers (16-Bit)	Operating Temperature Range	Package	Digi-Key Part No.		Price Each	
											1	25	100
8	640	256	32	Dual, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	56-LFCSP	ADUC812BCP-ND	15.71	14.15	12.55
8	640	256	32	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC812BS-ND	15.71	14.15	12.55
8	640	256	32	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC812BSZ-ND†	15.71	14.15	12.55
8	640	256	16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 125°C	28-TSSOP	ADUC814ARUZ-ND†	8.56	7.71	6.84
8	640	256	16	1, 12-Bit	2-Ch., 12-Bit	—	Yes	-40°C ~ 125°C	28-TSSOP	ADUC814BRUZ-ND†	10.00	9.00	7.98
8	640	256	32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	56-LFCSP	ADUC816BCP-ND	15.53	14.49	13.46
8	640	256	32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC816BS-ND	15.53	14.49	13.46
8	640	256	32	Dual, 16-Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC816BSZ-ND†	15.53	14.49	13.46
8	640	256	32	16 and 24 Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	56-LFCSP	ADUC824BCP-ND	19.28	17.99	16.71
8	640	256	32	16 and 24 Bit	1-Ch., 12-Bit	—	Yes	-40°C ~ 85°C	52-MQFP	ADUC824BS-ND	19.28	17.99	16.71
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC831BCP-ND	16.58	14.93	13.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC831BS-ND	16.58	14.93	13.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC831BSZ-ND†	16.58	14.93	13.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC832BCP-ND	16.58	14.93	13.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC832BS-ND	16.58	14.93	13.24
62	4K	2K + 256	32	16 and 24 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC834BCP-ND	21.00	19.60	18.20
62	4K	2K + 256	32	Dual, 16 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC836BCP-ND	16.88	15.75	14.63
62	4K	2K + 256	32	Dual, 16 Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC836BSZ-ND†	16.88	15.75	14.63
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC841BCP62-3-ND	21.90	17.52	14.79
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC841BS62-3-ND	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC841BSZ62-3-ND†	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC841BCP62-5-ND	21.90	17.52	14.79
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC841BSZ62-5-ND†	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC841BCP8-3-ND	14.90	11.92	10.06
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC841BCP8-5-ND	14.90	11.92	10.06

† *RoHS Compliant*

(Continued)

Precision Analog Microcontrollers *(Cont.)*

Program Memory (Kbytes)	Flash Data (Bytes)	RAM (Bytes)	I/O	ADC	DAC	PWM (16-Bit)	Timers (16-Bit)	Operating Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCP32-3-ND	16.20	12.96	10.94
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCP32-5-ND	16.20	12.96	10.94
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCPZ62-3-ND†	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC842BS62-3-ND	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC842BSZ62-3-ND†	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCP62-5-ND	21.90	17.52	14.79
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC842BSZ62-5-ND†	16.43	15.33	14.24
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCP8-3-ND	14.90	11.92	10.06
62	4K	2K + 256	32	1, 12-Bit	2-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC842BCP8-5-ND	14.90	11.92	10.06
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP32-3-ND	13.34	10.68	9.01
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP32-5-ND	13.34	10.68	9.01
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP32Z-5-ND†	11.11	10.01	8.88
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP62-3-ND	15.70	12.56	10.60
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC843BS62-3-ND	13.08	11.78	10.45
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC843BSZ62-3-ND†	13.08	11.78	10.45
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP62-5-ND	15.70	12.56	10.60
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC843BS62-5-ND	13.08	11.78	10.45
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	52-MQFP	ADUC843BSZ62-5-ND†	13.08	11.78	10.45
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP8-3-ND	11.70	9.36	7.90
62	4K	2K + 256	32	1, 12-Bit	—	2	Yes	-40°C ~ 85°C	56-LFCSP	ADUC843BCP8-5-ND	11.70	9.36	7.90
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC845BCP62-3-ND	27.70	22.16	18.70
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BS62-3-ND	27.70	22.16	18.70
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC845BCP62-5-ND	27.70	22.16	18.70
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC845BCPZ62-5-ND†	20.78	19.39	18.01
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BSZ62-5-ND†	20.78	19.39	18.01
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC845BCP8-3-ND	20.30	16.24	13.71
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BS8-3-ND	20.30	16.24	13.71
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC845BCP8-5-ND	20.30	16.24	13.71
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC845BS8-5-ND	20.30	16.24	13.71
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC847BCP62-3-ND	21.90	17.52	14.79
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS62-3-ND	21.90	17.52	14.79
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC847BCP62-5-ND	21.90	17.52	14.79
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS62-5-ND	21.90	17.52	14.79
62	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BSZ62-5-ND†	16.43	15.33	14.24
32	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS32-3-ND	17.90	14.32	12.09
32	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS32-5-ND	17.90	14.32	12.09
32	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BSZ32-5-ND†	14.91	13.43	11.91
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC847BCP8-3-ND	13.30	10.64	8.98
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS8-3-ND	13.30	10.64	8.98
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC847BCP8-5-ND	13.30	10.64	8.98
8	4K	2K + 256	32	Dual, 24-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC847BS8-5-ND	13.30	10.64	8.98
62	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC848BCP62-3-ND	18.60	14.88	12.56
62	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BS62-3-ND	18.60	14.88	12.56
62	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC848BCP62-5-ND	18.60	14.88	12.56
62	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BSZ62-5-ND†	15.49	13.95	12.37
32	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BS32-3-ND	14.90	11.92	10.06
32	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BS32-5-ND	14.90	11.92	10.06
8	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC848BCP8-3-ND	11.32	9.06	7.65
8	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 125°C	52-MQFP	ADUC848BS8-3-ND	11.32	9.06	7.65
8	4K	2K + 256	32	Dual, 16-Bit	1-Ch., 12-Bit	2	Yes	-40°C ~ 85°C	56-CSP	ADUC848BCP8-5-ND	11.32	9.06	7.65

† RoHS Compliant

ARM7 Core

RAM (Kbytes)	FLASH (Kbytes)	External Memory	GP I/O	ADC	DAC	PWM (16 Bit)	Temperature Range	Package	Digi-Key Part No.	Price Each 1	25	100
						ADuC702x Series						
8	62	Yes	40	12-Ch., 12-Bit	4 Ch., 12-Bit	3 Phase	-40°C ~ 125°C	80-LQFP	ADUC7026BSTZ62-ND†	15.00	14.00	13.00

† RoHS Compliant

QuickStart Development Kit

The "entry level" QuickStart Development System allows designers to rapidly evaluate MicroConverter performance and functionality, and then begin a prototype development. It fully supports assembly level code development via a serial port debug path and provides designers with access to a demonstration project of the C-level development environment available in QuickStart-Plus.

Kit Contents: • Evaluation Board • Serial Download/Debug Cable • Sample Device(s) • International Power Supply • Software and Documentation

EVAL-ADUC812QS-ND	**$75.00**	**EVAL-ADUC831QS-ND**	**$75.00**	**EVAL-ADUC841QS-ND**	**$75.00**
EVAL-ADUC814QS-ND	**$75.00**	**EVAL-ADUC832QS-ND**	**$75.00**	**EVAL-ADUC842QS-ND**	**$75.00**
EVAL-ADUC816QS-ND	**$75.00**	**EVAL-ADUC834QS-ND**	**$75.00**	**EVAL-ADUC845QS-ND**	**$75.00**
EVAL-ADUC824QS-ND	**$75.00**	**EVAL-ADUC836QS-ND**	**$75.00**	**EVAL-ADUC847QS-ND**	**$75.00**

ARM7 Development Kits

Kit Contents:
- Software Development Tools
- Power Supply
- Cables
- Evaluation Board
- JTAG Emulator

EVAL-ADUC7024QS-ND	**$90.67**
EVAL-ADUC7026QS-ND	**$90.67**

16-BIT PERFORMANCE / 8-BIT COST

Microcontrollers in the H8/36077 Group

H8/36077 MCUs are application-optimized, lower-cost additions to the popular H8/Tiny family of devices. Their 20MHz 16-bit H8/300H CPU core has a 32-bit load-store architecture and sixteen 16-bit configurable general registers; it runs sixty-two 16-bit instructions that provide high code density and allow efficient C/C++ programming. Thus, these four new MCUs free you from the limitations of 8-bit devices. Their extensive set of peripheral functions enable single-chip embedded system designs. The devices provide well-chosen flash and mask-ROM memory options and are available in lead-free 64-pin QFPs and LQFPs, priced to meet tight cost budgets.

Specifications for H8/36077 MCUs

Vcc min. (V):	4.5	Watchdog Timer:	1
Vcc max. (V):	5.5	Real-time Clock:	1
Max MHz @ 5V:	20	A/D (10-bit Resolution):	8
On-chip Oscillator:	Yes	14-bit PWM (D/A):	1
Oscillation Stop Detect:	Yes	Serial (sync/async):	2
Low-voltage Detect:	Yes	I²C:	1
Power-on Reset:	Yes	External Interrupts:	11
Power Down Modes:	8	GPIO:	55
8-bit Timers:	2	High Current GPIO:	8
16-bit Timers:	2	Temp. Range:	-20° to 85°C

Part Number	ROM	RAM	Lead-Free	Package
DF36077GFZV	56KB	4KB	Yes	64-pin LQFP
DF36077GHV	56KB	4KB	Yes	64-pin QFP

Package Specifications

QFP (Quad Flat Package)
Package Code: PRQP0064GB-A

Pin count: 64; Pitch: 0.8mm
Body Dimension: 14mm x 14mm
Package height: 3.05mm

LQFP (Low-profile QFP)
Package Code: PLQP0064KB-A

Pin count: 64; Pitch: 0.5mm
Body Dimension: 10mm x 10mm
Package height: 1.7mm

For more details, visit **www.renesas.com**

To receive product updates, register for **"My Renesas"** at
http://update.renesas.com/registration

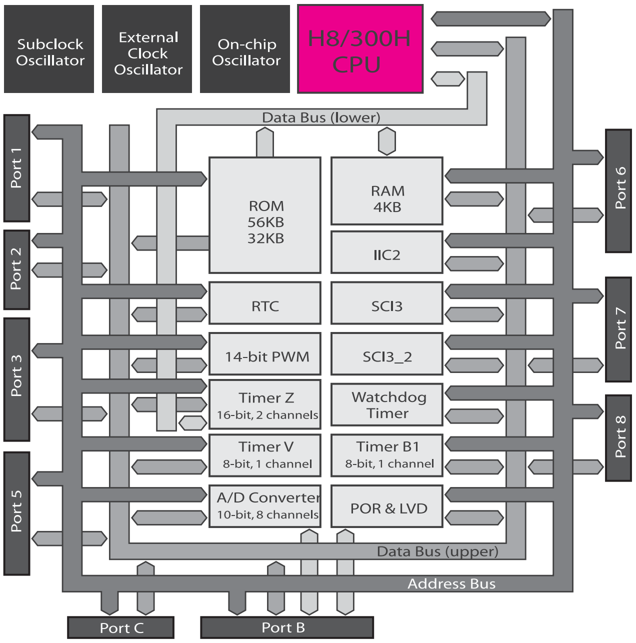

H8/36077 Development Tools

The H8/36077 development tool kit has all the hardware and software tools needed to get up and running in C or assembly code. A complete software tool suite (C compiler, assembler, linker, etc.) is FREE and comes with the kit, which also includes the following:

— Renesas H8/36077 starter kit — EDK3687
— High-performance embedded workshop (HEW) IDE with software tool chain
— Example firmware and projects
— Quick-start guide, tutorials, user manual and other documentation

- **Low-cost on-chip E8 debug emulator: R0E00008KCE00**
- **Full-featured in-circuit E6000 emulator: HS3664EPI62H**
- **H8/Tiny Virtual Lab and Training**

— Free remote hardware/software setup at the **Renesas Interactive** web site, accessible via secure communication link (www.renesasinteractive.com)
— Convenient learning and evaluation environment
— No procurement or system installation delays

Viva H8!
PRICE ▸ PERFORMANCE ▸ POSSIBILITIES

SPECIAL OFFER!

The **SKPH8TINYD** Kit comes complete with an H8/Tiny MCU (H8/3664), USB cable, E8 on-chip debug emulator and complete development software.

Purchase this kit through Digi-Key while supplies last.

Microcontrollers

H8S Family

Memory Type	ROM (Byte)	RAM (Byte)	Operating Voltage/ Operating Frequency	EX DMAC (ch)	DMAC (ch)	16bit timer (ch)	8bit timer (ch)	A/D Converter	D/A Converter	I^{2}C bus (ch)	HCAN (ch)	Interface	Package	Digi-Key Part No.	Price Each		
															1	25	100
External ROM	ROMless	8K	3.0 ~ 3.6V/25MHz	—	—	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	TFP-100B	HD6412312SVTEBL25-ND	6.30	5.04	4.26
External ROM	ROMless	8K	2.7 ~ 3.6V/20MHz	—	4	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	FP-128B	HD6412322RVF25-ND HD6412322RVFBL25-ND	8.82 7.58	7.92 6.07	7.03 5.12
External ROM	ROMless	32K	2.7 ~ 3.6V/20MHz	—	4	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	FP-128B	HD6412324SVF25-ND	11.00	9.90	8.78
External ROM	ROMless	32K	3.0 ~ 3.6V/33MHz	4	4	6	2	10bit x 12ch.	8bit x 4ch.	—	—	SDRAM I/F, IrDA	FP-144H	HD6412674RVFQ33-ND	13.33	12.00	10.64
Flash Memory	128K	4K	4.5 ~ 5.5V/20MHz	—	—	1	3	10bit x 8ch.	8bit x 2ch.	—	—	—	FP-100B	HD64F2134AFA20-ND	15.24	13.73	12.17
Flash Memory	256K	8K	4.5 ~ 5.5V/20MHz	—	—	1	4	10bit x 8ch.	8bit x 2ch.	2	—	I^{2}C bus I/F, LPC	TFP-100B FP-100B TFP-100B	HD64F2145BTE20-ND HD64F2145BVFA10-ND HD64F2145BVTE10-ND	15.84 15.30 15.84	14.79 14.28 14.79	13.73 13.26 13.73
Flash Memory	128K	4K	4.5 ~ 5.5V/20MHz	—	—	1	4	10bit x 8ch.	8bit x 2ch.	2	—	I^{2}C bus I/F	TFP-100B	HD64F2148ATE20-ND	17.15	16.01	14.86
Flash Memory	128K	4K	4.5 ~ 5.5V/20MHz	—	—	1	4	10bit x 8ch.	8bit x 2ch.	2	—	I^{2}C bus I/F, LPC	FP-100B TFP-100B FP-100B	HD64F2148BFA20-ND HD64F2148BTE20-ND HD64F2148BVFA10-ND	13.50 14.04 13.50	12.60 13.11 12.60	11.70 12.17 11.70
Flash Memory	512K	40K	3.0 ~ 3.6V/33MHz	—	—	1	4	10bit x 8ch.	8bit x 2ch.	6	—	I^{2}C bus I/F, LPC	TFP-144	HD64F2166VTE33-ND	30.00	28.00	26.00
Flash Memory	384K	40K	3.0 ~ 3.6V/33MHz	—	—	1	4	10bit x 8ch.	8bit x 2ch.	6	—	I^{2}C bus I/F, LPC	TFP-144	HD64F2167VTE33-ND	28.01	26.14	24.28
Flash Memory	256K	40K	3.0 ~ 3.6V/33MHz	—	—	1	4	10bit x 8ch.	8bit x 2ch.	6	—	I^{2}C bus I/F, LPC	TFP-144	HD64F2168VTE33-ND	25.01	23.34	21.68
Flash Memory	64K	8K	3.0 ~ 3.6V/24MHz	—	4	3	—	10bit x 6ch.	—	—	—	High-speed UART, USB	FP-64E	HD64F2211UFP2 4-ND	11.65	10.49	9.30
Flash Memory	128K	12K	3.0 ~ 3.6V/24MHz	—	4	3	—	10bit x 6ch.	—	—	—	High-speed UART, USB	FP-64E FP-64E	HD64F2212FP24-ND HD64F2212UFP24-ND	12.48 12.48	11.24 11.24	9.97 9.97
Flash Memory	256K	16K	2.7 ~ 3.6V/16MHz	—	4	3	2	10bit x 6ch.	8bit x 2ch.	—	—	High-speed UART, USB	TFP-120 TFP-120	HD64F2215TE16-ND HD64F2215UTE16-ND	21.11 21.11	19.01 19.01	16.86 16.86
Flash Memory	128K	12K	3.0 ~ 3.6V/24MHz	—	4	3	—	10bit x 6ch.	—	—	—	High-speed UART, USB	TFP-100G TFP-100G	HD64F2218TF24-ND HD64F2218UTF24-ND	15.99 15.99	14.40 14.40	12.77 12.77
Flash Memory	256K	16K	2.7 ~ 3.6V/13.5MHz	—	—	6	4	10bit x 8ch.	8bit x 2ch.	2	—	I^{2}C bus I/F	BP-112 FP-100B FP-100B FP-100B	HD64F2238RBR13-ND HD64F2238RFA13-ND HD64F2238RFA6-ND HD64F2238RTE13-ND	17.10 15.30 15.30 15.84	15.96 14.28 14.28 14.79	14.82 13.26 13.26 13.73
Flash Memory	384K	32K	3.0 ~ 3.6V/20MHz	—	4	6	4	10bit x 8ch.	8bit x 2ch.	2	—	I^{2}C bus I/F, High Speed UART	FP-100B FP-100B	HD64F2239FA16-ND HD64F2239FA20-ND	18.00 18.00	16.80 16.80	15.60 15.60
Flash Memory	128K	8K	3.0 ~ 3.6V/25MHz	—	—	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	TFP-100B	HD64F2317VTEBL25-ND	9.98	7.99	6.74
Flash Memory	256K	8K	3.0 ~ 3.6V/25MHz	—	—	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	TFP-100B	HD64F2318VTE25-ND	15.84	14.79	13.73
Flash Memory	512K	8K	3.0 ~ 3.6V/25MHz	—	—	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	FP-100A TFP-100B	HD64F2319EVF25-ND HD64F2319EVTE25-ND	24.00 26.48	22.40 24.71	20.80 22.95
Flash Memory	512K	8K	3.0 ~ 3.6V/25MHz	—	—	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	FP-100A TFP-100B	HD64F2319VF25-ND HD64F2319VTE25-ND	20.76 23.04	19.38 21.51	18.00 19.97
Flash Memory	128K	8K	3.0 ~ 3.6V/25MHz	—	4	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	FP-128B	HD64F2327BVFBL25-ND	9.98	8.99	7.97
Flash Memory	256K	8K	3.0 ~ 3.6V/25MHz	—	4	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	FP-128B TFP-120	HD64F2328VF25-ND HD64F2328VTE25-ND	16.38 18.11	15.29 16.90	14.20 15.70
Flash Memory	384K	32K	3.0 ~ 3.6V/25MHz	—	4	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	FP-128B TFP-120	HD64F2329BVF25-ND HD64F2329BVTE25-ND	18.90 19.44	17.64 18.15	16.38 16.85
Flash Memory	384K	32K	3.0 ~ 3.6V/25MHz	—	4	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	FP-128B TFP-120	HD64F2329EVF25-ND HD64F2329EVTE25-ND	27.24 29.72	25.43 27.74	23.61 25.76
Flash Memory	384K	32K	3.0 ~ 3.6V/25MHz	—	4	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	FP-128B	HD64F2329VF25-ND	27.24	25.43	23.61
Flash Memory	128K	8K	4.5 ~ 5.5V/20MHz	—	4	6	2	10bit x 8ch.	8bit x 2ch.	—	—	—	FP-128B	HD64F2357F20-ND	23.04	21.51	19.97
Flash Memory	384K	24K	3.0 ~ 3.6V/33MHz	2	4	6	2	10bit x 16ch.	8bit x 6ch.	2	—	SDRAM I/F IrDA	FP-144H	HD64F2377RVFQ33-ND HD64F2377RVFQ33W-ND	17.90 18.80	16.71 17.55	15.51 16.29
Flash Memory	256K	12K	3.0 ~ 3.6/20MHz	—	—	6	—	10bit x 16ch.	—	—	1	SCI	FP-100B FP-100B	HD64F2623FA20-ND HD64F2623FA20J-ND	24.00 22.95	22.40 21.42	20.80 19.89
Flash Memory	256K	16K	Vcc=PVcc=5.0V/28MHz	—	4	6	4	10bit x 16ch.	8bit x 4ch.	2	—	Serial I/F	FP-128B TFP-120 TFP-120	HD64F2633RF28-ND HD64F2633RTE28-ND HD64F2633TE25-ND	19.01 19.61 24.00	17.74 18.30 22.40	16.48 17.00 20.80
Flash Memory	256K	16K	4.5 ~ 5.5V/20MHz	—	—	6	—	10bit x 12ch.	8bit x 2ch.	2	2	I^{2}C bus I/F, CAN	FP-128B FP-128B	HD64F2638F20J-ND HD64F2638WF20J-ND	30.66 33.29	28.62 31.07	26.58 28.85
Flash Memory	256K	8K	3.0 ~ 3.6V/33MHz	4	4	6	2	10bit x 12ch.	8bit x 4ch.	—	—	IrDA	FP-144G	HD64F2676VFC33-ND	20.00	18.67	17.33

H8 Family

Memory Type	ROM (Byte)	RAM (Byte)	Operating Voltage/ Operating Frequency	EX DMAC (ch)	DMAC (ch)	16bit timer (ch)	8bit timer (ch)	A/D Converter	D/A Converter	I^{2}C bus	HCAN (ch)	Interface	Package	Digi-Key Part No.	Price Each		
															1	25	100
External ROM	ROMless	512	4.5V ~ 5.5V/17MHz	—	4	5	—	10bit x 8ch.	—	—	—	SCI	FP-100B	HD6413002F16-ND	11.70	10.53	9.34
External ROM	ROMless	512	4.5V ~ 5.5V/16MHz	—	8	5	—	10bit x 8ch.	—	—	—	SCI	QFP-112	HD6413003TF16-ND	16.32	15.24	14.15
External ROM	ROMless	4K	4.5V ~ 5.5V/25MHz	—	—	3	4	10bit x 8ch.	8bit x 2ch.	—	—	SCI	FP-100B	HD6413008FBL25NF-ND HD6413008FBL25V-ND	5.10 5.10	4.08 4.08	3.45 3.45
Flash Memory	128K	4K	3.0V ~ 3.6V/25MHz	—	—	3	4	10bit x 8ch.	8bit x 2ch.	—	—	SCI	FP-100B	HD64F3024FBL25-ND	7.98	6.39	5.39
Flash Memory	128K	4K	4.5V ~ 5.5V/16MHz	—	4	5	—	10bit x 8ch.	8bit x 2ch.	—	—	SCI	TFP-100B	HD64F3048VTF8-ND	36.96	34.50	32.04
Flash Memory	128K	4K	4.5V ~ 5.5V/25MHz	—	—	3	4	10bit x 8ch.	8bit x 2ch.	—	—	SCI	FP-100B FP-100B	HD64F3062BF25-ND HD64F3062BFBL25L-ND	12.40 7.98	11.16 6.39	9.90 5.39
Flash Memory	128K	4K	4.5V ~ 5.5V/20MHz	—	4	3	4	10bit x 8ch.	8bit x 2ch.	—	—	SCI	FP-100B	HD64F3067RF20-ND	20.55	19.18	17.81
Flash Memory	512K	16K	4.5V ~ 5.5V/25MHz	—	4	3	4	10bit x 8ch.	8bit x 2ch.	—	—	SCI	FP-100B	HD64F3069F25-ND	16.58	15.47	14.37
Flash Memory	16K	2K	3.0 ~ 5.5V/1~10MHz	—	—	1	1	10bit x 4ch.	—	—	—	SCI	FP-64E FP-64E FP-64E FP-64E FP-64E	HD64F36012FP-ND HD64F36012GFP-ND HD64F36012GFPI-ND HD64F36012GFPJ-ND HD64F36012GFPJE-ND	8.38 8.64 9.50 9.70 8.75	6.71 6.92 7.60 7.76 7.88	5.66 5.84 6.42 6.55 6.99
Flash Memory	32K	2K	3.0 ~ 5.5V/1 ~ 10MHz	—	—	1	1	10bit x 4ch.	—	—	—	SCI	FP-64E FP-64E FP-64E FP-64E FP-64E FP-64E FP-48B	HD64F36014FP-ND HD64F36014FPI-ND HD64F36014FPJ-ND HD64F36014FPJE-ND HD64F36014FPW-ND HD64F36014GFP-ND HD64F36014GFY-ND	8.64 9.00 9.82 8.86 8.58 8.88 8.88	6.92 7.20 7.86 7.98 7.73 7.11 7.11	5.84 6.08 6.63 7.08 6.85 6.00 5.38
Flash Memory	32K	2K	3.0 ~ 5.5V/1 ~ 10MHz	—	—	1	1	10bit x 4ch.	—	—	—	SCI	FP-64E	HD64F36024FP-ND	8.88	7.11	6.00
Flash Memory	96K	4K	3.0 ~ 5.5V/1 ~ 10MHz	—	—	3	3	10bit x 4ch.	—	1	—	I$_2$C bus I/F SCI	FP-80A	HD64F36049GH-ND HD64F36049H-ND	9.73 9.53	8.76 8.58	7.77 7.61
Flash Memory	32K	1K	3.0 ~ 5.5V/15MHz	—	—	1	3	8bit x 8ch.	—	—	—	Serial I/F	FP-64A	HD64F3644H-ND	10.16	9.15	8.12
Flash Memory	32K	2K	3.0 ~ 5.5V/1 ~ 10MHz	—	—	1	2	10bit x 4ch. (DP-42S)	—	1	—	I^{2}C bus I/F SCI	FP-64E	HD64F3664FP-ND	9.50	7.60	6.42
Flash Memory	32K	4K	3.0 ~ 5.5V/1 ~ 10MHz	—	—	2	3	10bit x 8ch.	—	1	—	—	FP-64A	HD64F3684GH-ND	10.16	8.13	6.86
Flash Memory	56K	4K	3.0 ~ 5.5V/1 ~ 10MHz	—	—	2	3	10bit x 8ch.	—	1	—	I^{2}C bus I/F SCI	FP-64E FP-64E FP-64A FP-64A	HD64F3687FP-ND HD64F3687GFP-ND HD64F3687GH-ND HD64F368 7H-ND	8.66 8.88 8.88 8.66	7.80 8.00 8.00 7.80	6.92 7.09 7.09 6.92

(Continued)

H8 Family *(Cont.)*

Memory Type	ROM (Byte)	RAM (Byte)	Operating Voltage/ Operating Frequency	EX DMAC (ch)	DMAC (ch)	16bit timer (ch)	8bit timer (ch)	A/D Converter	D/A Converter	I^{2}C bus	HCAN (ch)	Interface	Package	Digi-Key Part No.	Price Each		
															1	25	100
Flash Memory	8K	1.5K	3.0 ~ 5.5V/1 ~ 10MHz	—	—	1	1	10bit x 4ch.	—	—	—	SCI	FP-32A	HD64F36902GFH-ND	5.42	4.34	3.38
Flash Memory	8K	1.5K	3.0 ~ 5.5V/2 ~ 10MHz	—	—	1	2	10bit x 4ch.	—	1	—	I^{2}C bus I/F SCI	FP-32A	HD64F36912GFH-ND	5.69	4.56	3.55
Flash Memory	32K	2K	3.0 ~ 5.5V/1 ~ 10MHz	—	—	1	2	10bit x 4ch.	—	1	—	I$_2$C bus I/F SCI	FP-64E FP-48F FP-48B FP-64E FP-48B FP-64E	HD64F3694FP-ND HD64F3694FX-ND HD64F3694FY-ND HD64F3694GFP-ND HD64F3694GFY-ND HD64F3694GH-ND	9.38 9.38 9.38 9.66 9.66 9.66	7.51 7.51 7.51 7.73 7.73 7.73	6.34 6.34 6.34 6.53 6.53 6.53
Flash Memory	32K	1K	2.2 ~ 3.6V/2MHz	—	—	2	1	10bit x 4ch.	—	—	—	LCD	FP-64E FP-64E FP-64A	HD64F38004FP10-ND HD64F38004FP4-ND HD64F38004H10-ND	10.40 10.40 10.40	8.32 8.32 8.32	7.02 7.02 7.02
Flash Memory	32K	1K	2.7 ~ 5.5V/5MHz	—	—	2	3	10bit x 8ch.	—	—	—	LCD	FP-80A	HD64F38024H-ND	12.46	9.97	8.42
Flash Memory	32K	1K	2.7 ~ 3.6/5MHz	—	—	2	3	10bit x 8ch.	—	—	—	LCD	FP-80A TFP-80C	HD64F38024RH-ND HD64F38024RW-ND	11.46 11.46	9.17 9.17	7.74 7.74
Flash Memory	32K	1K	2.7 ~ 3.6/5Mhz	—	—	2	3	10bit x 8ch.	—	—	—	LCD	TFP-80C	HD64F38024W-ND	11.41	10.28	9.12

R8C Family

Memory Type	ROM (Byte)	RAM (Byte)	Data Flash	OperatingVoltage/ Operating Frequency	Timers	Serial Interface	A/D Converter	Operating Temperature	Package Code	Digi-Key Part No.	Price Each		
											1	25	100
Flash Memory	4K	384	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART),I^{2}C	10bit x 4ch.	-20 ~ 85	20SDIP	R5F211A1DD#U0-ND	3.89	3.12	2.43
Flash Memory	4K	384	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART),I^{2}C	10bit x 4ch.	-20 ~ 85	20LSSOP	R5F211A1SP#U0-ND	3.31	2.65	2.06
Flash Memory	4K	384	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SDIP	R5F211B1DD#U0-ND	4.34	3.48	2.71
Flash Memory	4K	384	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20LSSOP	R5F211B1SP#U0-ND	3.76	3.01	2.34
Flash Memory	8K	512	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SDIP	R5F211A2DD#U0-ND	4.21	3.37	2.62
Flash Memory	8K	512	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20LSSOP	R5F211A2SP#U0-ND	3.60	2.88	2.24
Flash Memory	8K	512	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SDIP	R5F211B2DD#U0-ND	4.66	3.73	2.90
Flash Memory	8K	512	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20LSSOP	R5F211B2SP#U0-ND	4.05	3.24	2.52
Flash Memory	8K	512	—	3.0~5.5V/16MHz	16bit x 1, 8bit x 3	2(UART)	10bit x 8ch.	-20 ~ 85	32LQFP	R5F21102FP-ND	4.50	3.60	2.80
Flash Memory	8K	512	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 3	2(UART)	10bit x 12ch.	-20 ~ 85	32LQFP	R5F21112FP-ND	4.66	3.73	2.90
Flash Memory	8K	512	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART)	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21142SP#U0-ND	3.89	3.12	2.43
Flash Memory	8K	512	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART)	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21152SP#U0-ND	4.34	3.48	2.71
Flash Memory	8K	512	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21162SP#U0-ND	4.05	3.24	2.52
Flash Memory	8K	512	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21172SP#U0-ND	4.50	3.60	2.80
Flash Memory	12K	768	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SDIP	R5F211A3DD#U0-ND	4.50	3.60	2.80
Flash Memory	12K	768	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20LSSOP	R5F211A3SP#U0-ND	3.89	3.12	2.43
Flash Memory	12K	768	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8b it x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SDIP	R5F211B3DD#U0-ND	4.95	3.96	3.08
Flash Memory	12K	768	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20LSSOP	R5F211B3SP#U0-ND	4.34	3.48	2.71
Flash Memory	12K	768	—	3.0~5.5V/16MHz	16bit x 1, 8bit x 3	2(UART)	10bit x 8ch.	-20 ~ 85	32LQFP	R5F21103FP-ND	4.79	3.84	2.99
Flash Memory	12K	768	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 3	2(UART)	10bit x 12ch.	-20 ~ 85	32LQFP	R5F21113FP-ND	4.95	3.96	3.08
Flash Memory	12K	768	4Kbytes	3.0~5.5V/16MHz	16bit x 1, 8bit x 3	2(UART)	10bit x 8ch.	-20 ~ 85	32LQFP	R5F21123FP-ND	5.24	4.20	3.27
Flash Memory	12K	768	4Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 3	2(UART)	10bit x 12ch.	-20 ~ 85	32LQFP	R5F21133FP-ND	5.40	4.32	3.36
Flash Memory	12K	768	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART)	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21143SP#U0-ND	4.21	3.37	2.62
Flash Memory	12K	768	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART)	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21153SP#U0-ND	4.66	3.73	2.90
Flash Memory	12K	768	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21163SP#U0-ND	4.34	3.48	2.71
Flash Memory	12K	768	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21173SP#U0-ND	4.79	3.84	2.99
Flash Memory	16K	1K	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SDIP	R5F211A4DD#U0-ND	4.79	3.84	2.99
Flash Memory	16K	1K	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20LSSOP	R5F211A4SP#U0-ND	4.21	3.37	2.62
Flash Memory	16K	1K	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SDIP	R5F211B4DD#U0-ND	5.24	4.20	3.27
Flash Memory	16K	1K	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	2(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20LSSOP	R5F211B4SP#U0-ND	4.66	3.73	2.90
Flash Memory	16K	1K	—	3.0~5.5V/16MHz	16bit x 1, 8bit x 3	2(UART)	10bit x 8ch.	-20 ~ 85	32LQFP	R5F21104FP-ND	5.11	4.09	3.18
Flash Memory	16K	1K	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 3	2(UART)	10bit x 12ch.	-20 ~ 85	32LQFP	R5F21114FP-ND	5.24	4.20	3.27
Flash Memory	16K	1K	4Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 3	2(UART)	10bit x 12ch.	-20 ~ 85	32LQFP	R5F21134FP-ND	5.69	4.56	3.55
Flash Memory	16K	1K	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART)	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21144SP#U0-ND	4.50	3.60	2.80
Flash Memory	16K	1K	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART)	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21154SP#U0-ND	4.95	3.96	3.08
Flash Memory	16K	1K	—	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21164SP#U0-ND	4.66	3.73	2.90
Flash Memory	16K	1K	2Kbytes	3.0~5.5V/20MHz	16bit x 1, 8bit x 2	1(UART), I^{2}C	10bit x 4ch.	-20 ~ 85	20SSOP	R5F21174SP#U0-ND	5.11	4.09	3.18

(Continued)

SuperH™ Family

Memory Type	ROM (Byte)	RAM (Byte)	Operating Voltage/ Frequency	External Data Bus (bit)	Multiplier, Multiply and Accumulate	Interrupts	BSC	Timer (ch)	AD Converter	Interface	Package	Digi-Key Part No.	Price Each		
													1	25	100
External ROM	ROMless	8K	3.3V/62.5MHz	8/16/32	32x32=>64/32x 32+64=>64	5 (16 level)	SRAM/DRAM/ SDRAM	4	—	SDRAM I/F/EtherMAC	FP-208C	HD6417616SF-ND	20.28	18.93	17.58
External ROM	ROMless	—	Internal: 1.4 ~ 1.6V/133MHz	8/16/32	32x32=>64/32x 32+64=>64	27 internal	SRAM/SDRAM	3+4	10bit x 4ch.	SDRAM I/F /USB_F	FP-176C	HD6417705F133-ND	16.80	15.68	14.56
External ROM	ROMless	—	3.3V/80MHz	8/16/32	32x32=>64/32x 32+64=>64	27 internal	SRAM/DRAM/ SDRAM	3	10bit x 8ch.	—	FP-208C	HD6417709AF133B-ND	30.23	28.21	26.20
External ROM	ROMless	—	Internal: 1.85 ~ 2.15V/200MHz	8/16/32	32x32=>64/32x 32+64=>64	27 internal	SRAM/SDRAM	3	10bit x 8ch.	SDRAM I/F	FP-208C	HD6417709SHF200B-ND	31.32	29.24	27.15
External ROM	ROMless	16K	Internal: 1.75 ~ 2.05V/160MHz	8/16/32	32x32=>64/32x 32+64=>64	39 Internal	SRAM/SDRAM	3	10bit x 6ch. (D/A 2ch.)	SDRAM I/F/LCDC/ USB_H,USB_F	FP-240B	HD6417727F160C-ND	31.20	29.12	27.04
External ROM	ROMless	16K	Internal: 1.85 ~ 2.15V/200MHz	8/16/32	32x32=>64/32x32+64=>64/ 16x16=>40/16x16+40=>40	27 Internal	SRAM/SDRAM	3	10bit x 8ch.	SDRAM I/F	FP-208C	HD6417729RF133B-ND	26.82	25.04	23.25
External ROM	ROMless	—	3.3V/133MHz	8/16/32	32x32=>64 32+64=>64	24 Internal	SRAM/DRAM/ SDRAM	3	—	—	FP-208E	HD6417750F167-ND	45.30	42.28	39.26
External ROM	ROMless	—	Internal: 1.4 ~ 1.6V/240MHz	8/16/ 32/64	32x32=>64/32x 32+64=>64	31 Internal	SRAM/DRAM/ SDRAM/MPX/ BurstROM/ Byte Control SRAM/PCMCIA	5	—	—	BP-256 FP-208E	HD6417750RBP240-ND HD6417750RF240-ND	38.63 34.86	36.05 32.54	33.48 30.22
External ROM	ROMless	—	Internal: 1.4 ~ 1.6V/240MHz	8/16/32	32x32=>64/32x 32+64=>64	35 Internal	SRAM/DRAM/ SDRAM/MPX/ BurstROM/ Byte Control SRAM/PCMCIA	5	—	PCI	BP-256 BP-256	HD6417751RBP200-ND HD6417751RBP240-ND	41.07 46.62	38.34 43.52	35.60 40.41
Flash Memory	256K	4K/ (2K)*	5.0V/28.7MHz	8/16/32	32x32=>64/32x 32+64=>64	43 Internal	SRAM/DRAM	7	10bit x 8ch.	SCI	FP-144	HD64F7045F28-ND	41.52	38.76	35.99
Flash Memory	256K	8K	3.3V/50MHz	8/16	32x32=>64/32x32+64=>64	51 Internal	SRAM	7	10bit x 8ch.	I^2C†	FP-112B	HD64F7144F50-ND	18.11	16.90	15.70
Mask ROM	256K	8K	3.3V/50MHz	8/16/32	32x32=>64/32x32+64=>64	51 Internal	SRAM	7	10bit x 8ch.	I^2C†	FP-144F	HD64F7145F50-ND	18.66	17.42	16.18

* Using Cache † Optional

M16C Family

Memory Type	ROM (Byte)	RAM (Byte)	Supply Voltage (V)	Operating Frequency (MHz)	Timers	DMA Controller	Serial Interface	A/D Converter	D/A Converter	CAN	Special Functions	Package	Digi-Key Part No.	Price Each		
														1	25	100
Flash Memory	24K + 4K	1K	3.0 ~ 5.5 (@20MHz)	20	16bit x (5 + 3)	2	Clock Sync./ UART x 3	10bit x 12ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	48P6Q-A	M30260F3AGP#D5-ND	8.88	7.11	6.00
Flash Memory	48K + 4K	2K	3.0 ~ 5.5 (@20MHz)	20	16bit x (5 + 3)	2	Clock Sync./ UART x 3	10bit x 12ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	48P6Q-A	M30260F6AGP#D5-ND	9.66	7.73	6.53
Flash Memory	64K + 4K	2K	3.0 ~ 5.5 (@20MHz)	20	16bit x (5 + 3)	2	Clock Sync./ UART x 3	10bit x 12ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	48P6Q-A	M30260F8AGP#D5-ND	10.16	8.13	6.86
Flash Memory	32K x 4K	1K	3.0 ~ 5.5 (@20MHz)	20	16bit x 8	2	Clock Sync./ UART x 3	10bit x 6ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	48P6Q-A	M30262F4GP#D3-ND	9.66	7.73	6.53
Flash Memory	48K + 4K	2K	3.0 ~ 5.5 (@20MHz)	20	16bit x (5 + 3)	2	Clock Sync./ UART x 3	10bit x 8ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	48P6Q-A	M30262F6GP#D3-ND M30262F6GP#D5-ND	10.16 9.66	8.13 7.73	6.86 6.53
Flash Memory	64K + 4K	2K	3.0 ~ 5.5 (@20MHz)	20	16bit x (5 + 3)	2	Clock Sync./ UART x 3	10bit x 8ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	48P6Q-A	M30262F8GP#D3-ND	8.88	8.00	7.09
Flash Memory	48K + 4K	4K	3.0 ~ 5.5 (@20MHz)	20	16bit x (5 + 3)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x 24ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	80P6Q-A	M30280F6HP#D5-ND	11.44	9.16	7.73
Flash Memory	64K + 4K	4K	3.0 ~ 5.5 (@20MHz)	20	16bit x (5 + 3)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x 24ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	80P6Q-A	M30280F8HP#D5-ND	11.94	9.56	8.06
Flash Memory	96K + 4K	8K	3.0 ~ 5.5 (@20MHz)	20	16bit x (5 + 3)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x 24ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	80P6Q-A	M30280FAHP#D5-ND	12.96	10.37	8.75
Flash Memory	48K + 4K	4K	3.0 ~ 5.5 (@20MHz)	20	16bit x (5 + 3)	2	Clock Sync./UART x 3, Color Sync. x 1	10bit x 13ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	64P6Q-A	M30281F6HP#D5-ND	10.94	8.76	7.39
Flash Memory	64K + 4K	4K	3.0 ~ 5.5 (@20MHz)	20	16bit x (5 + 3)	2	Clock Sync./UART x 3, Color Sync. x 1	10bit x 13ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	64P6Q-A	M30281F8HP#D5-ND	11.44	9.16	7.73
Flash Memory	96K + 4K	8K	3.0 ~ 5.5 (@20MHz)	20	16bit x (5 + 3)	2	Clock Sync./UART x 3, Color Sync. x 1	10bit x 13ch.	—	—	I^2C bus, IE Bus, SIO Sub clock, UART	64P6Q-A	M30281FAHP#D5-ND	12.46	9.97	8.42
Flash Memory	128K + 4K	10K	3.0 ~ 5.5 (@24MHz)	24	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 x 3 + 2)ch.	8bit x 2	—	I^2C bus, IE Bus, SIO Sub clock, UART	100P6S-A	M30620FCPFP#D5C-ND	15.66	14.10	12.51
Flash Memory	128K + 4K	10K	3.0 ~ 5.5 (@24MHz)	24	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 x 3 + 2)ch.	8bit x 2	—	I^2C bus, IE Bus, SIO Sub clock, UART	100P6Q-A	M30620FCPGP#D3C-ND M30620FCPGP#D5C-ND	15.74 14.99	14.18 13.50	12.57 11.97
Flash Memory	64K + 4K	4K	3.0 ~ 5.5 (@24MHz)	24	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 x 3 + 2)ch.	8bit x 2	—	I^2C bus, IE Bus, SIO Sub clock, UART	100P6S-A	M30622F8PFP#D5C-ND	14.54	13.10	11.62
Flash Memory	64K + 4K	4K	3.0 ~ 5.5 (@24MHz)	24	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 x 3 + 2)ch.	8bit x 2	—	I^2C bus, IE Bus, SIO Sub clock, UART	100P6Q-A	M30622F8PGP#D5C-ND	13.88	12.50	11.08
Flash Memory	256K	20K	4.2 ~ 5.5 (@16MHz)	16	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 + 2)ch.	8bit x 2	—	I^2C bus, IE Bus, SIO Sub clock, UART	100P6S-A	M30624FGAFP#D3-ND M30624FGAFP#D5-ND	37.68 35.87	35.17 33.48	32.66 31.09
Flash Memory	256K	20K	2.7 ~ 3.6 (@10MHz)	10	16bit x 11	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 + 2)ch.	8bit x 2	—	I^2C bus, IE Bus, SIO Sub clock, UART	100P6S-A	M30624FGMFP#D3-ND	37.68	35.17	32.66
Flash Memory	256K + 4K	20K	3.0 ~ 5.5 (@24MHz)	24	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 x 3 + 2)ch.	8bit x 2	—	I^2C bus, IE Bus, SIO Sub clock, UART	100P6S-A	M30624FGPFP#D5C-ND	17.33	15.60	13.84
Flash Memory	256K + 4K	20K	3.0 ~ 5.5 (@24MHz)	24	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 x 3 + 2)ch.	8bit x 2	—	I^2C bus, IE Bus, SIO Sub clock, UART	100P6Q-A	M30624FGPGP#D3C-ND M30624FGPGP#D5C-ND	17.48 16.66	15.74 15.00	13.96 13.30
Flash Memory	256K + 4K	20K	3.0 ~ 5.5 (@24MHz)	24	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 x 3 + 2)ch.	8bit x 2	—	I^2C bus, IE Bus, SIO Sub clock, UART	100P6Q-A	M30625FGPGP#D5C-ND	17.78	16.01	14.20
Flash Memory	384K + 4K	31K	3.0 ~ 5.5 (@24MHz)	24	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 x 3 + 2)ch.	8bit x 2	—	I^2C bus, IE Bus, SIO Sub clock, UART	100P6S-A	M30626FHPFP#D3C-ND M30626FHPFP#D5C-ND	18.48 17.60	17.25 16.43	16.02 15.25
Flash Memory	384K + 4K	31K	3.0 ~ 5.5 (@24MHz)	24	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 x 3 + 2)ch.	8bit x 2	—	I^2C bus, IE Bus, SIO Sub clock, UART	100P6Q-A	M30626FHPGP#D3C-ND M30626FHPGP#D5C-ND	17.84 17.00	16.65 15.87	15.46 14.73

(Continued)

Microcontrollers *(Cont.)*

M16C Family *(Cont.)*

Memory Type	ROM (Byte)	RAM (Byte)	Supply Voltage (V)	Operating Frequency (MHz)	Timers	DMA Controller	Serial Interface	A/D Converter	D/A Converter	CAN	Special Functions	Package	Digi-Key Part No.	Price Each		
														1	25	100
Flash Memory	384K + 4K	31K	3.0 ~ 5.5 (@24MHz)	24	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 x 3 + 2)ch.	8bit x 2	—	I^{2}C bus, IE Bus, SIO Sub clock, UART	128LQFP	M30627FHPGP#D5C-ND	18.00	16.80	15.60
Flash Memory	384K + 4K	31K	3.0 ~ 5.5 (@24MHz)	24	16bit x (5 + 6)	2	Clock Sync./UART x 3, Color Sync. x 2	10bit x (8 x 3 + 2)ch.	8bit x 2	—	I^{2}C bus, IE Bus, SIO Sub clock, UART	100P6Q-A	M30843FHGP#D5-ND	22.01	20.54	19.08
Flash Memory	512K + 4K	24K	3.0 ~ 5.5 (@24MHz)	24	16bit x 11	4	Clock Sync./ UART x 5	10bit x 26ch. (1 circuit)	8bit x 2	1	I^{2}C bus, IE Bus, SIO Sub clock, UART	100P6Q-A	M30843FJFP#D5-ND	24.60	22.96	21.32
Flash Memory	512K + 4K	24K	3.0 ~ 5.5 (@24MHz)	24	16bit x 11	4	Clock Sync./ UART x 5	10bit x 26ch. (1 circuit)	8bit x 2	1	I^{2}C bus, IE Bus, SIO Sub clock, UART	100P6Q-A	M30843FJGP#D5-ND	24.00	22.40	20.80
Flash Memory	384K + 4K	24K	3.0 ~ 5.5 (@24MHz)	24	16bit x 11	4	Clock Sinc./ UART x 5	10bit x 26ch. (1 circuit)	8bit x 2	2	I^{2}C bus, IE Bus, SIO Sub clock, UART	100P6S-A	M30853FHFP#D5-ND	23.60	22.03	20.45
Flash Memory	512K + 4K	24K	3.0 ~ 5.5 (@24MHz)	24	16bit x 11	4	Clock Sync./ UART x 5	10bit x 26ch. (1 circuit)	8bit x 2	2	I^{2}C bus, IE Bus, SIO Sub clock, UART	100P6Q-A	M30853FJGP#D5-ND	25.01	23.34	21.68
Flash Memory	320K + 4K	24K	3.0 ~ 5.5 (@24MHz)	24	16bit x 11	4	Clock Sync./ UART x 5	10bit x 26ch. (1 circuit)	8bit x 2	2	I^{2}C bus, IE Bus, SIO, CAN, Sub clock, UART	100P6S-A	M30853FWGP#D5-ND	31.34	29.25	27.16
Flash Memory	384K + 4K	24K	3.0 ~ 5.5 (@24MHz)	24	16bit x 11	4	Clock Sync./ UART x 5	10bit x 34ch. (1 circuit)	8bit x 2	2	I^{2}C bus, IE Bus, SIO, CAN, Sub clock, UART	144P6Q-A	M30855FHGP#D5-ND	26.00	24.27	22.53
Flash Memory	512K + 4K	24K	3.0 ~ 5.5 (@24MHz)	24	16bit x 11	4	Clock Sync./ UART x 5	10bit x 34ch. (1 circuit)	8bit x 2	2	I^{2}C bus, IE Bus, SIO, CAN, Sub clock, UART Stepping Motor Cont.	100P6Q-A	M30865FJGP#D5-ND	29.00	27.07	25.13

740 Family

Memory Type	ROM (Byte)	RAM (Byte)	Supply Voltage (V)	Operating Ambient Temperature	Timers	DMA Controller	Serial Interface	A/D Converter	CAN	Package	Digi-Key Part No.	Price Each		
												1	25	100
One time PROM	8K	256	4.0 ~ 5.5	-20° ~ 85°C	16bit x 1 8bit x 2	—	Clock Sync./UART x 1	8bit x 6	SIO	32LQFP	M37544G2GP-ND	3.06	2.45	1.91
One time PROM	8K	256	4.0 ~ 5.5	-20° ~ 85°C	16bit x 1 8bit x 2	—	Clock Sync./UART x 1	8bit x 6	SIO	32P4B	M37544G2SP-ND	3.40	2.72	2.12

Tools

Description	Digi-Key Part No.	Price Each
Accessories		
Development Emulator Accessory	E6EIOEXT-ND	369.60
Emulator PCB Adapter 100-QFP	EHB2148Q100B-ND	464.40
Emulator PCB Adapter 100-QFP	EHB2238Q100B-ND	554.40
Emulator PCB Adapter 100-QFP	EHB2318Q100B-ND	586.32
Emulator PCB Adapter 128-QFP	EHB2328Q128-ND	925.20
Emulator PCB Adapter 128-QFP	EHB2633Q128-ND	1267.20
Emulator PCB Adapter 144-QFP	EHB2678RQ144-ND	976.08
Emulator PCB Adaptor 100-QFP	EHB3064BQ100B-ND	520.80
PCB Adapter 120-TQFP	HS1650ECN61H-ND	1226.40
PCB Adapter 100-QFP	HS2148ECH61HE-ND	1428.42
PCB Adapter 144-TQFP	HS2168ECN61H-ND	2761.08
PCB Adapter 64-QFP	HS2212ECH61H-ND	2911.37
PCB Adapter 112-LFBGA	HS2215ECB62H-ND	3370.86
PCB Adapter 120-TQFP	HS2215ECN61H-ND	2761.08
PCB Adapter 100-QFP	HS2218ECN61H-ND	3100.50
PCB Adapter 100-QFP	HS2238ECH61H-ND	1428.42
PCB Adapter 112-LFBGA	HS2238RECB62H-ND	2154.60
PCB Adapter 144-QFP	HS2338ECH61H-ND	1428.42
PCB Adapter 144-QFP	HS2378ECH61H-ND	1819.44
Personality Kit H8S/2633	HS2633ECH61HE-ND	1428.42
Emulator PCB Adapter 64-QFP	HS36014ECH61H-ND	1428.42
Emulator PCB Adapter 48-QFP	HS36014ECH63H-ND	1428.42
Emulator Accessory H8/36024	HS36024EIO61H-ND	1296.00
Emulator PCB Adapter 80-QFP	HS36049ECH61H-ND	1620.00
Emulator PCB Adapter 64-QFP	HS3664ECH61H-ND	1428.42
Emulator PCB Adapter 64-QFP	HS3664ECH62H-ND	1428.42
Emulator PCB Adapter 48-QFP	HS3664ECH63H-ND	1428.42
Emulator PCB Adapter 48-QFP	HS3664ECH64H-ND	1428.42
Emulator PCB Adapter 64-QFP	HS3687ECH61H-ND	1657.80
Emulator PCB Adapter 64-QFP	HS3687ECH62H-ND	1613.25
Emulator Personality Kit M16C/26	M30260T-EPB-GP-ND	1374.24
Emulator Personality Kit M16C/26	M30262T-PTC-ND	463.50
Emulator Personality Kit M16C/28	M30290T-EPB-HP-ND	1374.24
Emulator Personality Kit M16C/28	M30291T-EPB-HP-ND	1374.24
Emulator Personality Kit M16C/62P	M3062PT-EPB-ND	1359.00
Emulator Personality Kit M16C/6N	M306N3T-EPB-ND	2052.42
Emulator Prove M16C/6N	M306NKT-EPB-ND	1472.40
M16C/26 Socket Board (48-P6Q-A)	M3A-0286G01-ND	295.20
Emulator Accessory	M3T-100LCC-DMS-ND	108.00
Emulator PCB Adapter 100-QFP	M3T-DIRECT100S-ND	76.50
Emulator PCB Adapter 100-QFP	M3T-DUMMY100S-ND	196.50
Emulator PCB Adapter 100-LQFP	M3T-F160-100NSD-ND	381.00
Emulator PCB Adapter 128-LQFP	M3T-F160-128NRD-ND	403.65
Emulator PCB Adapter 100-QFP	M3T-FLX-100NRB-ND	558.60
Emulator PCB Adapter 100-LQFP	M3T-FLX-100NSD-ND	598.50
Emulator PCB Adapter 144-LQFP	M3T-FLX-144NSD-ND	417.15
Emulator Accessory	M3T-FLX100-R-ND	154.00
Emulator Accessory	M3T-FLX100-T-ND	154.00
Development Evaluation Kit H8S/2612	US2612EDK1-ND	366.24
Development Evaluation Kit H8S/2623	US2623EDK1-ND	693.84

Description	Digi-Key Part No.	Price Each
Software		
C Compiler H8 1 User	RTA-HEWH8-1U-ND	1363.25
C Compiler H8 1 User LAN	RTA-HEWH8-1UL-ND	1734.79
C Compiler M16C 1 User	RTA-HEWNC30-1U-ND	1363.25
C Compiler M16C 1 User LAN	RTA-HEWNC30-1UL-ND	1734.79
C Compiler M32C 1 User	RTA-HEWNC308-1U-ND	1363.25
C Compiler M32C 1 User LAN	RTA-HEWNC308-1UL-ND	1734.79
C Compiler SH 1 User	RTA-HEWSH-1U-ND	2693.25
C Compiler SH 1 User LAN	RTA-HEWSH-1UL-ND	2891.30
Emulators		
Development Emulator Base Unit H8S/2100	E62140-ND	8658.30
Development Emulator Base Unit H8S/2300	E62339-ND	9904.50
Development Emulator Base Unit H8S/2633	E62633R-ND	9336.60
Development Emulator Base Unit H8/3064	E63064B-ND	9647.82
Development Emulator Base Unit H8/300L	E63800-ND	7734.22
On Chip Debug Emulator	HS0005KCU01H-ND	1413.00
On Chip Debug Emulator with Trace	HS0005KCU02H-ND	2322.00
Personality Kit H8SX/1650	HS1650EPH60H-ND	9464.28
Base Unit H8S/2168	HS2168EPI61H-ND	8275.26
Emulator Base Unit H8S/2214	HS2214EPI62H-ND	7671.90
Emulator Base Unit H8/3664	HS3664EPI62H-ND	5904.00
Emulator Base Unit M16C/60	M3062PT3-RPD-E-ND	3589.40
Emulator Kit M32C/85	M85EK75-ND	1731.66
Emulator Base Unit M16C Platform	PC7501-ND	6727.50
On Chip Debug Emulator	RTA-FOUSB-MON-ND	60.86
Development M16C/62P Compact Emulator	R0KZ1SNY003001R-ND	3593.13
Kits — Evaluation, Development, and Starter		
Development Evaluation Kit H8S/2166	3DK2166-ND	238.00
Development Evaluation Kit H8S/2218	3DK2218-ND	418.25
Development Evaluation Kit H8S/2215	EDK2215-ND	366.24
Development Evaluation Kit H8S/2239	EDK2239-ND	366.24
Development Evaluation Kit H8S/2268	EDK2268-ND	366.24
Development Evaluation Kit H8S/2282	EDK2282-ND	366.24
Development Evaluation Kit H8S/2329	EDK2329-ND	243.60
Development Evaluation Kit H8S/2377	EDK2377-ND	366.24
Development Evaluation Kit H8S/2398	EDK2398-ND	504.00
Development Evaluation Kit H8S/2638	EDK2638-ND	504.00
Development Evaluation Kit H8/3069	EDK3069-ND	588.00
Development Evaluation Kit H8/3687	EDK3687-ND	341.04
Development Evaluation Kit SH7047	EDK7047-ND	612.00
Development Evaluation Kit SH7145	EDK7145-ND	243.60
Development Evaluation Kit H8S/2674	EDOSK2674-ND	261.80
Development Evaluation Kit M16C/26A	SKP16C26A-ND	50.00
Development Evaluation Kit M16C/28	SKP16C28-ND	50.00
Development Evaluation Kit M16C/62P	SKP16C62P-ND	50.00
Development Evaluation Kit R8C/11	SKP8CMINI-ND	50.00
Development Evaluation Kit R8C/17	SKP8CMINI17D-ND	25.00
Development Evaluation Kit H8/3068	US3068EDK1-ND	613.20
Development Evaluation Kit H8/38024	US38024-BAG1-ND	63.00
Development Evaluation PSU and Serial Cable	USBAG-PSU1-ND	23.25
Development Emulator Base Unit H8S/2678	E62678R-ND	11299.50
Emulator Kit M16C/62P	M62PEK75-ND	1839.60
Development Evaluation Kit M16C/26A	QSK26A-ND	54.81
Demo Kit Zigbee 2.4GHZ	RZB-CC16C-ZDK-ND	1275.00

OPTICHRON

Analog-to-Digital Converters

Optichron's high performance 14-bit, 80 to 125 MSPS data converter modules in BGA form factor powered by Turbolinear™ technology offer ultra-high linearity for designs requiring a critical boost in ADC performance.

The advanced buffer-amplifier plus analog-to-digital converter modules not only provide system designers much-valued linearity but also a greater command of design tradeoffs between speed, performance power dissipation and cost.

By eliminating a key performance constraint, nonlinear distortion in the buffer amp and ADC, our ultra-linear modules, powered by our Turbolinear technology, offer design engineers high signal fidelity at very high signal frequencies while increasing system speed and improving analog performance.

OM1400A-105

This is a high-speed and high-performance analog-to-digital converter module optimized to achieve and exceptionally high linearity when digitizing signals of very high IF.

The module has a sampling rate of 105 MSPS and is primarily built around Optichron's Linearizer with Turbolinear technology in addition to a 14-bit AD6645 analog-to-digital converter and AD8351 buffer amplifier, which provides a buffered, single-ended 50 ohm input.

The module output is a digitized signal optimized for up to 25 dB improvement in SFDR when sub-sampling signals in the 1st, 2nd, 3rd and 4th Nyquist zones.

Features:

• 14-bit resolution, 105 MSPS sampling rate • IF sampling to 205 MHz • 5 dBm full scale input power • Single-ended, 50 ohm analog input buffer • Selectable 2's complement or binary outputs • 3.3V CMOS compatible • Output clock for data output latching • Module power dissipation: 2.8W • BGA footprint

578-1000-ND	Module	**$374.80**
578-1001-ND	Evaluation Board	**$895.00**

CIRRUS LOGIC®

CODEC

CS4270 Evaluation Board

Using the CDB4270 is an excellent way to evaluate the CS4270 CODEC. System timing for the I²S, Left-Justified or Right-Justified audio data formats can be provided by the CS4270, by the CS8416, or by a device connected to the on-board DSP I/O header.

The board may also be configured to accept external timing and data signals. RCA jacks are provided for the analog audio inputs and outputs. Digital S/PDIF transmit or receive data I/O is available via either RCA jacks or optical connectors.

The Windows® GUI software provided allows for easy configuration of the CDB4270. The GUI software communicates with the board via a serial port connection to configure the CS4270 Control Port registers so that all features of the CS4270 can be evaluated.

Features:

• Header for External Configuration of CS4270 • Header for External DSP Serial Audio I/O • Pre-Defined Software Scripts • Demonstrates Recommended Layout

598-1002-ND	(CDB4270)	**$486.00**

CS4272 Evaluation Board

The CDB4272 demonstrates the CS4272 stereo CODEC. Evaluation requires an analog/digital signal source and analyzer, and power supplies. Optionally, a Windows® PC compatible computer may be used to evaluate the CS4272 in control port mode.

System timing can be provided by the CS4272, by the CS8416 phase-locked to its S/PDIF input, by an I/O stake header or by an on-board oscillator. RCA phone jacks and Balanced XLR jacks are provided for the CS4272 analog inputs. Digital data I/O is available via RCA phone or optical connectors to the CS8416 and CS8406.

Microsoft Windows® software provides a GUI to make configuration of the board easy. The software communicates through the PC's parallel port to configure the hardware so that all features can be evaluated. The board may also be configured to accept external timing and data signals for operation in a user application during system development.

598-1004-ND	(CDB4272)	**$486.00**

CS4265 Evaluation Board

The CDB4265 evaluation board is an excellent means for evaluating the CS4265 CODEC. System timing for I²S, Left-Justified and Right-Justified interface formats can be provided by the CS4265, the CS8416, or by a PCM I/O stake header with an external source connected.

RCA phono jacks are provided for the CS4265 analog inputs and outputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS4265. The Windows® software provides a GUI to make configuration of the CDB4265 easy. The software communicates through the PC's serial port to configure the control port registers so that all features of the CS4265 can be evaluated.

The board may also be configured to accept external timing and data signals for operation in a user application during system development.

Features:

• Coaxial and Optical Connections for CS4265 S/PDIF Transmitter Output • CS8416 S/PDIF Digital Audio Receiver • Header for external PCM serial audio I/O • 3.3 V Logic Interface • Pre-defined Software Scripts • Windows Compatible Software Interface

598-1001-ND	(CDB4265)	**$648.00**

CS4271 Evaluation Board

This is an excellent means for evaluating the CS4271 stereo CODEC. Evaluation requires an analog/digital signal source, and analyzer, and power supplies. Windows PC compatible computer may be used to evaluate the CS4271 in control port mode.

System timing can be provided by the CS4271, by the CS8416 phase-locked to its S/PDIF input, by an I/O stake header or by an on-board oscillator. RCA phono jacks are provided for the CS4271 analog outputs and inputs. Digital data I/O is available via RCA phono or optical connectors to the CS8416 and CS8406.

Microsoft Windows® software provided a GUI to make configuration of the board easy. The software communicates through the PC's parallel port to configure the hardware so all features can be evaluated.

Features:

• Single-ended inputs • CS8406 S/PDIF digital audio transmitter • CS8416 S/PDIF digital audio receiver • Header for optional external configuration of CS4271 • Header for external DSP serial audio I/O • 3.3V to 5.0V Logic Interface

598-1003-ND	(CDB4271)	**$486.00**

CS42L51 Evaluation Board

The CDB42L51 evaluation board is an excellent means for evaluating the CS42L51 CODEC. System timing can be provided by the CS8415, by the CS42L51 with supplied master clock, or b and I/O stake header with a DSP connected.

RCA phono jacks are provided for the CS42L51 analog inputs and outputs. 1/18th inch jacks are also available for microphone input and headphone output. Digital data I/O is available via RCA phono or optical connectors.

The Windows® software provides a GUI to make configuration of the CDB42L51 easy. The evaluation board may also be configured to accept external timing and data signals for operation in a user application during system development.

Features: • MUX's Analog Output • 8-96 kHz S/PDIF Interface • I/O Stake Headers • 1.8-3.3V Logic Interface • Layout and Grounding Recommendations

598-1005-ND	(CDB42L51)	**$891.00**

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Audio CODEC				
102 dB, 2-Ch. AD, 105 dB 6-Ch. DA Surround 24-Bit, 192 kHz, 48-LQFP	598-1027-ND	7.04	5.64	CS42406-CQZ
110 dB 2-Ch. AD, 114 dB 6-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP, 6-Ch. with PLL	598-1028-ND	7.66	6.13	CS42416-CQZ
110 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP, 6-Ch. with PLL	598-1029-ND	7.87	7.11	CS42418-CQZ
114 dB 2-Ch. AD, 114 dB 6-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP with PLL	598-1030-ND	9.43	8.52	CS42426-CQZ
114 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP with PLL	598-1031-ND	12.46	11.22	CS42428-CQZ
110 dB 2-Ch. AD, 114 dB 6-Ch. DA Surround 24-Bit, 192 kHz 64-LQFP 6-Ch. with S/PDIF Rx	598-1035-ND	7.60	6.84	CS42516-CQZ
110 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP 6-Ch. with S/PDIF Rx	598-1036-ND	9.08	8.21	CS42518-CQZ
114 dB 2-Ch. AD, 114 dB 6-Ch. AD Surround 24-Bit, 192 kHz, 64-LQFP with S/PDIF Rx	598-1037-ND	10.64	9.62	CS42526-CQZ
114 dB 2-Ch. AD, 114 dB 8-Ch. DA Surround 24-Bit, 192 kHz, 64-LQFP with S/PDIF Rx	598-1038-ND	13.68	12.32	CS42528-CQZ
Multi-Channel CODEC				
105 dB 6-Ch. AD, 108 dB 8-Ch. DA, 192 kHz, 52-MQFP, TDM	598-1032-ND	11.43	10.29	CS42438-CMZ
105 dB 6-Ch. Ad, 108 dB 8-Ch. DA, 192 kHz, 64-LQFP with Input MUX	598-1033-ND	11.58	10.43	CS42448-CQZ
Stereo Audio CODEC				
105 dB, 24-Bit, 192 kHz, 48-LQFP with MUX, PGA and Asynchronouse Support	598-1034-ND	6.92	5.54	CS4245-CQZ
105 dB, 24-Bit, 192 kHz, 32-QFN with S/PDIF Tx	598-1039-ND	7.74	6.20	CS4265-CNZ
105 dB, 24-Bit, 192 kHz, 24-TSSOP with 3.3V Operation	598-1040-5-ND	5.58	4.47	CS4270-CZZ
108 dB AD, 114 dB DA, 24-Bit, 192 kHz, 28-TSSOP with Oscillator	598-1041-5-ND	7.84	6.28	CS4271-CZZ
114 dB, 24-Bit, 192 kHz, 28-TSSOP with Oscillator	598-1042-5-ND	9.60	7.68	CS4272-CZZ
PCI Audio Interface, 100-TQFP	598-1043-ND	9.68	7.75	CS4281-CQZ
AC '97 2.1 Compatible Stereo Audio, 48-TQFP	598-1044-ND	5.64	4.52	CS4299-JQZ
Low Power, Stereo CODEC with Headphone Amp, 32-QFP	598-1045-ND	6.96	5.57	CS42L51-CNZ

Analog-to-Digital Converters

CS5381 Evaluation Board

The CDB5381 evaluation board is an excellent means for quickly evaluating the CS5381 24-bit, stereo A/D converter. Evaluation requires a digital signal analyzer, an analog signal source, and a power supply. Also included is a CS8406 digital audio interface transmitter which generates S/PDIF, and EIAJ-340 compatible audio data. The digital audio data is available via RCA phono and optical connectors.

Features:

• Demonstrates recommended layout and grounding arrangements • CS8406 generates S/PDIF and EIAJ-340 compatible digital audio

598-1008-ND (CDB5381) **$486.00**

CS5451A Evaluation Board and Software

This is an inexpensive tool designed to evaluate the functionality/performance of the CS5451A 6-channel A/D Converter. Six terminal block connectors serve as inputs to the CS5451A's six analog input pairs. It includes an optional voltage reference source. A 4.096MHz crystal is provided as a source for the CS5451A XIN pin, or an external clock source can be supplied by the user. Digital output data from the CS5451A is transferred to the user's PC via the included 25-pin parallel port cable.

The CDB5451A includes PC software, allowing the user to perform data capture (includes option for time domain analysis, histogram analysis and frequency domain analysis). The software also allows real-time RMS calculation/analysis to be performed simultaneously on all six channels.

Features:

• Direct Shunt Sensor and Current Transformer Interface for 3-Phase Power • On-Board Voltage Reference • On-Board Crystal for XIN

598-1009-ND (CDB5451A) **$631.13**

CS5461A Evaluation Board and Software

The CDB5461A is a tool designed to evaluate the functionality and performance of the CS5461. The board includes an LT1019 voltage reference, an 8051 microcontroller, an RS232 transceiver, and firmware. The 8051 controls the serial communication between the evaluation board and the PC via the firmware, enabling quick and easy access to all of the CS5461A's registers and functions.

The CDB5461A includes software for Data Capture, Time Domain Analysis, Histogram Analysis and Frequency Domain Analysis.

Features:

• On-Board Data SRAM • Integrated RS-232 Test Mode • "Auto-Boot" Demo with serial EEPROM

598-1010-ND (CDB5461A) **$580.13**

CS5466 Evaluation Board

The CS5466 is a low cost power/energy IC with pulse output for power measurement solutions. The CDB5466U Evaluation Board is an inexpensive tool designed to evaluate the functionality and performance of the CS5466.

The evaluation board is designed to output energy-to-pulse conversions upon power up. It includes a microcontroller with a USB interface. The microcontroller and GUI (Graphical User Interface) provide a means to quickly register and evaluate the CS5466's energy-to pulse outputs.

Features:

• Active Energy-to-Pulse Conversions • Simple Configuration Jumpers • Energy Pulses • Multiple Supply Voltage Selections • USB Communication with PC • On-Board Voltage Reference

598-1011-ND (CDB5466U) **$631.13**

CS5524 Evaluation Board and Software

The CSB5524 is an inexpensive tool designed to evaluate the performance of the CS5524 Analog-to-Digital Converters (ADC). The board includes a 2.5V voltage reference, an 80C51 microcontroller, an RS232 driver/receiver and firmware. The 8051 controls the serial communication between the evaluation board and the PC via the firmware, thus enabling quick and easy access to all of the CS5524 registers.

It also includes one installed ADC sample and software for Data Capture, Time Domain Analysis, Histogram Analysis and Frequency Domain Analysis.

Features:

• Direct Thermocouple Interface • RS-232 to PC with Test Modes • On-Board 80C51 Microcontroller • On-Board Voltage Reference • Lab Windows/CVI™ Evaluation Software • On-Board Charge Pump Drive Circulatory

598-1012-ND (CDB5524) **$631.13**

CS5529 Evaluation Board and Software

The CDB5529 is a tool designed to evaluate the performance of the CS5529 16-bit Analog-to-Digital Converter (ADC). The board includes an LT1019 voltage reference, an 80C51 microcontroller, an RS232 driver/receiver and firmware. The 8051 controls the serial communication between the evaluation board and the PC visa the firmware, enabling quick and easy access to all of the CS5529's registers.

The CDB5529 also includes software for Time Domain Analysis, Histogram Analysis and Frequency Domain Analysis.

Features:

• RS-232 Serial Communication with PC • On-Board 80C51 Microcontroller • On-Board Voltage Reference • Lab Windows/CVI™ Evaluation Software • Integrated RS-232 Test Mode

598-1015-ND (CDB5529) **$631.13**

CS5534 Evaluation Board and Software

The CDB5534U is a tool designed to evaluate the functionality and performance of CS5534. The board includes a C8051F320 microcontroller with a USB interface. The microcontroller controls the serial communication between the evaluation board and the PC via the firmware, enabling quick and easy access to all of the CS5534's registers and functions.

This includes software for Data Capture, Time Domain Analysis, Histogram Analysis and Frequency Domain Analysis.

Features:

• USB Communication with PC • On-Board Microcontroller • On-Board Voltage Reference • Evaluation Software • Interface Header for External Microcontroller

598-1016-ND (CDB5534U) **$631.13**

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
Audio ADC's				
101 dB, 192 kHz, Multi-Bit, 16-TSSOP	598-1081-5-ND	6.34	5.08	CS5340-CZZ
105 dB, 192 kHz, Multi-Bit, 16-TSSOP	598-1082-5-ND	7.30	5.84	CS5341-CZZ
105 dB, 192 kHz, MUX, PGA, Mic-Pre, 48-LQFP	598-1083-ND	6.52	5.22	CS5345-CQZ
108 dB, 192 kHz, Multi-Bit, S/E, 24-TSSOP	598-1085-5-ND	8.72	6.98	CS5351-KZZ
114 dB, 192 kHz, Multi-Bit, 24-SOIC	598-1086-5-ND	8.73	7.86	CS5361-KSZ
114 dB, 192 kHz, Multi-Bit, 24-TSSOP	598-1087-5-ND	8.73	7.86	CS5361-KZZ
114 dB, 192 kHz, 4-Ch., TDM, 48-LQFP	598-1088-ND	16.17	15.10	CS5364-CQZ
114 dB, 192 kHz, 6-Ch., TDM, 48-LQFP	598-1089-ND	18.42	17.20	CS5366-CQZ
114 dB, 192 kHz, 8-Ch., TDM 48-LQFP	598-1090-ND	20.66	19.28	CS5368-CQZ
120 dB, 192 kHz, Multi-Bit, Flagship, 24-SOIC	598-1091-5-ND	19.74	18.43	CS5381-KSZ
120 dB, 192 kHz, Multi-Bit, Flagship, 24-TSSOP	598-1092-5-ND	19.74	18.43	CS5381-KZZ
Industrial ADC's				
12-Bit Self-Calibrating ADC, 44-PLCC	598-1074-5-ND	35.48	33.11	CS5012A-BL7Z
14-Bit Self-Calibrating ADC, 44-PLCC	598-1075-5-ND	78.06	72.86	CS5014-BL14Z
16-Bit Self-Calibrating ADC, 44-PLCC	598-1076-5-ND	123.75	115.50	CS5016-BL16Z
16-Bit, 100/20 kHz, 28-PLCC	598-1077-5-ND	74.25	69.30	CS5101A-BL8Z
16-Bit, 100/20 kHz, 28-PLCC	598-1078-5-ND	67.65	63.14	CS5101A-JL8Z
16-Bit, 100/20 kHz, 28-PLCC	598-1079-5-ND	60.24	56.23	CS5102A-BLZ
16-Bit, 100/20 kHz, 28-PLCC	598-1080-5-ND	52.80	49.28	CS5102A-JLZ
6-Ch Delta/Sigma ADC, 28-SSOP	598-1093-5-ND	8.82	7.06	CS5451A-ISZ
Single Phase Bi-Directional IC, 24-SSOP	598-1095-5-ND	5.38	4.31	CS5461A-ISZ
Low-Power 16-Bit, 20-SOIC	598-1098-5-ND	16.38	15.29	CS5507-ASZ
Low-Power 20-Bit, 20-SOIC	598-1099-5-ND	17.79	16.61	CS5508-BSZ
Single-Supply, 16-Bit, 16-SOIC	598-1100-5-ND	12.83	11.55	CS5509-ASZ
16-Bit Bridge Transducer, 24-SOIC	598-1101-5-ND	23.10	21.56	CS5516-ASZ
20-Bit Bridge Transducer, 24-SOIC	598-1102-5-ND	26.40	24.64	CS5520-BSZ
16-Bit Delta-Sigma, 20-SSOP	598-1103-5-ND	9.58	7.67	CS5521-ASZ
24-Bit Delta-Sigma, 20-SSOP	598-1104-5-ND	9.63	8.67	CS5522-ASZ
16-Bit Delta-Sigma, 24-SSOP	598-1105-5-ND	9.92	7.94	CS5523-ASZ
24-Bit Delta-Sigma, 24-SSOP	598-1106-5-ND	10.06	9.06	CS5524-ASZ
16-Bit Latch, 20-SSOP	598-1107-5-ND	9.24	7.40	CS5525-ASZ
20-Bit Latch, 20-SSOP	598-1108-5-ND	9.18	8.27	CS5526-BSZ
24-Bit Delta-Sigma, 24-SSOP	598-1109-5-ND	10.50	9.45	CS5528-ASZ
16-Bit Delta-Sigma, 20-SSOP	598-1110-5-ND	7.14	5.72	CS5529-ASZ
16-Bit PGIA, 2-Ch, 20-SSOP	598-1111-5-ND	8.68	7.82	CS5531-ASZ
16-Bit PGIA, 2-Ch, 20-SSOP	598-1112-5-ND	10.13	9.12	CS5532-ASZ
24-Bit PGIA, 2-Ch, 20-SSOP	598-1113-5-ND	13.56	12.21	CS5532-BSZ
16-Bit PGIA, 2-Ch, 24-SSOP	598-1114-5-ND	8.96	8.07	CS5533-ASZ
24-Bit PGIA, 4-Ch, 24-SSOP	598-1115-5-ND	10.56	9.51	CS5534-ASZ
24-Bit PGIA, 4-Ch, 24-SSOP	598-1116-5-ND	13.99	12.60	CS5534-BSZ
24-Bit Delta-Sigma, 16-SSOP	598-1117-5-ND	7.36	5.89	CS5540-ASZ
24-Bit Delta-Sigma, 16-SSOP	598-1118-5-ND	8.82	7.06	CS5541-BSZ
2-Ch., 24-SSOP	598-1119-5-ND	5.31	4.25	CS5550-ISZ

Digital-to-Analog Converters

CS4344 Evaluation Board

This board is an excellent means for quickly evaluating the CS4344 24-bit, 10 pin stereo D/A Converter. The CS8416 digital audio receiver IC provides the system timing necessary to operate the Digital-to-Analog converter and will accept S/PDIF and EIAJ-340 compatible audio data. The board may also be configured to accept external timing and data signals for operation in a user application during system development.

Features:

• Demonstrates recommended layout and grounding arrangements • Header for external PCM audio

598-1006-ND (CDB4344) **$405.00**

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
Audio DAC				
8-Pin, 96 dB, 96 kHz, 24-Bit, I2S, 8-SOIC	598-1046-5-ND	2.57	2.06	CS4334-KSZ
8-Pin, 96 dB, 96 kHz, 24-Bit, LJ, 8-SOIC	598-1047-5-ND	2.57	2.06	CS4335-KSZ
8-Pin, 96 dB, 96 kHz, 16-Bit, RJ, 8-SOIC	598-1048-5-ND	2.57	2.06	CS4338-KSZ
101 dB, 192 kHz, 24-Bit, 16-TSSOP	598-1049-5-ND	3.87	3.10	CS4340-CZZ
101 dB, 192 kHz, 24-Bit, Volume Control 16-TSSOP	598-1050-5-ND	4.25	3.41	CS4341-CZZ
10-Pin, 105 dB, 192 kHz, 12S, 10-TSSOP	598-1051-5-ND	2.86	2.29	CS4344-CZZ
10-Pin, 105 dB, 192 kHz, 24-Bit, LJ, 10-TSSOP	598-1052-5-ND	2.86	2.29	CS4345-CZZ

Description	Digi-Key Part No.	Price Each		Cirrus Logic Part No.
		1	25	
10-Pin, 105 dB, 192 kHz, 24-Bit, RJ, 10-TSSOP	598-1053-5-ND	2.86	2.29	CS4346-CZZ
10-Pin, 105 dB, 192 kHz, 24-Bit, RJ, 10-TSSOP	598-1054-5-ND	2.86	2.29	CS4348-CZZ
112 dB, 192 kHz, 2Vrms Driver, 20-TSSOP	598-1055-5-ND	5.26	4.21	CS4351-CZZ
102 dB, 192 kHz, 6-Ch., S/E Volume Control, 28-TSSOP	598-1056-5-ND	9.68	7.75	CS4360-DZZ
105 dB, 192 kHz, 6-Ch., S/E, 20-TSSOP	598-1057-5-ND	6.68	5.35	CS4361-CZZ
114 dB, 192 kHz, 6-Ch., DSD, 48-LQFP	598-1058-ND	9.06	8.16	CS4362A-CQZ
103 dB, 192 kHz, 6-Ch., DSD, TDM, S/E, 48-LQFP	598-1059-ND	8.61	7.76	CS4364-CQZ
114 dB, 192 kHz, 6-Ch., DSD, TDM, 48-LQFP	598-1060-ND	9.70	8.73	CS4365-CQZ
114 dB, 192 kHz, 8-Ch., DSD, 48-LQFP	598-1061-ND	11.85	10.67	CS4382A-CQZ
103 dB, 192 kHz, 8-Ch., DSD, TDM, S/E, 48-LQFP	598-1062-ND	9.55	8.60	CS4384-CQZ
114 dB, 192 kHz, 8-Ch., DSD, TDM, 48-LQFP	598-1063-ND	12.48	11.24	CS4385-CQZ
108 dB, 192 kHz, DSD Support, 20-TSSOP	598-1064-5-ND	5.26	4.21	CS4391A-KZZ
114 dB, 192 kHz, DSD Support, 20-TSSOP	598-1065-5-ND	7.92	6.34	CS4392-KZZ
120 dB, 192 kHz, DSD, Flagship, 28-TSSOP	598-1067-5-ND	7.89	7.13	CS4398-CZZ

CIRRUS LOGIC®

CobraNet™

The CobraNet solution leverages the rapid developments in the computer networking industry to provide an increasingly cost-effective connectivity solution for audio professionals worldwide. It's based on the highly integrated CS1810xx CobraNet Silicon Series, providing an interface in the form of a compact, low-power, low-cost module. Featuring 8 or 16 simultaneous channels of digital audio input and output, the CM-2 is designed to be easily integrated into a wide variety of audio products such as signal processors, mixers, amplifiers, ceiling speakers and self-powered loudspeakers.

Features:

• 100BASE-TX Ethernet Interface - 100 Mbps, full-duplex Ethernet, fully compliant with IEEE 802.3u Standard • Secondary 100BASE-TX Ethernet Interface - redundant network connection for fault tolerance • Quad Synchronous Serial Output Ports - capable of supplying and receiving 8 or 6 channels • TFTP Support - firmware updates over the network • Low Latency - selectable 1.33, 2.66 or 5.33 ms across network • Status LEDs - Link, Activity and CobraNet conductor status for each Ethernet jack • Ability to send audio from any CobraNet interface to any other - unlimited addressing, unlimited capacity

598-1007-ND Evaluation Board CS496122 .... **$2970.00**

598-1023-ND Evaluation Board for CS44600 .... **$943.65**

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
		CobraNet		
Module CobraNet 1810 CM2 FB	598-1019-ND	170.10	—	CPB181022-CM2-FB
Module CobraNet 1810 CM2 MT	598-1020-ND	170.10	—	CPB181022-CM2-MT
Module CobraNet 4961 CM2 FB	598-1021-ND	189.00	—	CPB496122-CM2-FB
Module CobraNet 4961 CM2 MT	598-1022-ND	189.00	—	CPB496122-CM2-MT
2x2-Ch, 144-LQFP	598-1024-ND	16.62	15.52	CS181002-CQZ
8x8-Ch, 144-LQFP	598-1025-ND	17.45	16.29	CS181012-CQZ
16x16-Ch, 144-LQFP	598-1026-ND	18.29	17.07	CS181022-CQZ
Audio DSP CobraNet 144-LQFP	598-1071-ND	19.95	18.62	CS496102-CQZ
Audio DSP CobraNet 144-LQFP	598-1072-ND	20.94	19.55	CS496112-CQZ
Audio DSP CobraNet 144-LQFP	598-1073-ND	21.95	20.49	CS496122-CQZ

Interface and Sample Rate Converters

Evaluation Board for CS8416 and CS8406

The CDB8416 is designed to allow easy evaluation of the CS8416 and CS8406. The board is designed for easy connection to an Audio Precision or other digital audio test system.

Input and output data may be set for either balanced using the XLR connectors or unbalanced using the coax or optical connectors.

Windows PC software provides a GUI to make configuration easy in software mode. The software communicates through the PC's parallel port to control the internal registers so that all the possible software modes of the CS8416 may be tested.

Features:

• CS8416 Digital Audio Receiver • Receives and transmits AES/EBU, S/PDIF and EIAJ-340 compatible digital audio • Analog and Digital 3.3 V Supply • 3.3 to 5.0 V Logic Interface Supply • Operates in stand alone Hardware Mode or computer controlled Software Mode • Balanced and unbalanced inputs available.

598-1017-ND (CDB8416) **$688.50**

Evaluation Board for CS8421

The CDB8421 demonstration board is an excellent means for evaluating the CS8421 sample rate converter. System timing can be provided by the CS8421, by the CS8416 phase-locked to its S/PDIF input, by an I/O stake header or by an on-board oscillator. Digital I/O is available via coaxial (RCA) or optical connectors to the CS8416 and SC8406. All configuration control is handled from onboard switches.

Features:

• CS8416 S/PDIF Digital Audio Receiver • CS8406 S/PDIF Digital Audio Transmitter • Header for External Serial Audio I/O • 3.3 to 5.0V Logic Interface • No software required to operate

598-1018-ND (CDB8421) **$648.00**

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
		Interface and Sample Rate Converters		
96 kHz Digital Transmitter, 28-TSSOP	598-1120-5-ND	5.85	4.68	CS8405A-CZZ
192 kHz Digital Transmitter, 28-TSSOP	598-1121-5-ND	5.04	4.04	CS8406-CZZ
96 kHz Digital Receiver, 28-TSSOP	598-1122-5-ND	8.34	6.68	CS8415A-CZZ
192 kHz Digital Receiver, 28-SOIC	598-1123-5-ND	6.42	5.14	CS8416-CSZ
192 kHz Digital Receiver, 28-TSSOP	598-1124-5-ND	6.42	5.14	CS8416-CZZ
Digital-Audio Sample Rate, 28-SOIC	598-1125-5-ND	20.06	18.06	CS8420-CSZ
32-Bit Asynchronous Sample, 20-TSSOP	598-1126-5-ND	9.10	8.19	CS8421-CZZ

ARM®

Engineering Development Kit for EP9301 Processor

The EDB9301 development kit is a convenient, user-friendly, system-oriented platform that provides engineers with the ability to evaluate and utilize the EP9301 processor capabilities, features and state-of-the-art technology. Performance provides a 166 MHz ARM920T processor, and features integrated peripheral interfaces.

Applications: • Digital Media Servers • Jukeboxes • Telematic Control Systems • Set-Top Boxes • Point-of-Sale Terminals • Industrial Controls • Biometric Security Systems • GPS Devices

Kit Includes: • EDB9301 Processor Board, 4" x 6" form factor • Power Supply • Serial Cable • User Documentation • Evaluation versions of popular software tool solutions

EDB9301 Supports: • EP9301-CQ Processor • 32 MB SDRAM • 16 MB Flash • Serial EEPROM Interface • Real Time Clock • User-Populated USB Host Connector • Two UARTS • Stereo Audio Input via serial interface block • 1/10/100 Mbps Ethernet

598-1131-ND (EDB9301) **$375.00**

Embedded Processor Development System for EP9302A

The EDB9302A provides design engineers with a convenient kit - hardware, software and drivers - and is optimized for use with the impressive selection of peripherals integrated on the EP9302A ARM9-based embedded processor.

EDB9302 Platform Supports: • EP9302A processor • Linux and Microsoft Windows® WinCE 4.2 and 5.0 Operating Systems • 32 MB of SDRAM • 16 MB of Flash Memory • Serial EEPROM interface • Real Time Clock • USB Host Connector • Two UARTS • Stereo audio input and output • 10/100 Mbps Ethernet • JTAG

Features: • A complete Linux® Operating System with drivers (source code included) • BSP for Microsoft® Windows® WinCE 4.2 and 5.0 Operating Systems with drivers included • Full-featured EP9302A-based development board with generous peripheral selection • Evaluation copies of popular tools • Schematics and Gerbers • Power supply, cables and documentation

598-1132-ND (EDB9302A) **$375.00**

Embedded Processor Development System for EP9307

The EDB9307 provides design engineers with a convenient kit - hardware, software and drivers - and is optimized for use with the impressive selection of peripherals integrated on the EP9307 ARM9-based embedded processor.

EDB9302 Platform Supports: • EP9307 processor • Linux and Microsoft Windows® WinCE 4.2 and 5.0 Operating Systems • 64 MB of SDRAM • 32 MB of Flash Memory • Serial EEPROM interface • 512 KB SRAM • Real Time Clock • 2D Graphic Accelerator • Video Raser/LCD interface to provide data and interface signals for a variety of display types • Four-wire touchscreen interface • Supports analog VGA connection • Video encoder supports composite video output and S-VIDEO output • Three full-speed USB host connections • Two UARTS • Up to six-channel 24-bit audio output • AC '97 audio • 10/100 Mbps Ethernet • IR Receiver • JTAG • Memory bus expansion connector

Features: • Full-featured EP9307-based development board with generous peripheral selection and probe pins • Evaluation copies of popular tools • Schematics and Gerbers • Power supply, cables and documentation • Expansion Connector

598-1133-ND (EDB9307) **$7.00**

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
		ARM Processors		
ARM720T Processor, 90 mW at 74 MHz, 208-LQFP	598-1134-ND	13.03	11.73	EP7312-CVZ
ARM720T Processor, 90 mW at 74 MHz, 208-LQFP	598-1135-ND	14.93	13.93	EP7312-IVZ
166 MHz ARM920T Processor, 208-TQFP	598-1136-ND	14.48	13.04	EP9301-CQZ
200 MHz ARM9 Processor with Math Crunch Engine, 208-LQFP	598-1137-ND	16.14	14.54	EP9302-CQZ
200 MHz ARM9 Processor, Graphics and Math Engine, 352-PBGA	598-1138-ND	18.54	17.31	EP9307-CRZ
200 MHz ARM9 Processor, PCMCIA, Graphics and Math Engine, 352-PBGA	598-1139-ND	26.21	24.46	EP9315-CBZ

Digital Amplifiers/Power Technology

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
6-Ch. Digital Amplifier Controller	598-1068-5-ND	7.00	5.60	CS44600-CQZ
8-Ch. Digital Amplifier Controller	598-1070-ND	7.30	5.84	CS44800-CQZ
Multi-Bit A/D Real Time PSR Feedback	598-1069-5-ND	5.04	4.04	CS4461-CZZ

Power Measurement

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
Single Phase Bi-Directional IC, 24-SSOP	598-1094-5-ND	5.30	4.24	CS5460A-BSZ
Single Phase Bi-Directional IC, 24-SSOP	598-1096-5-ND	5.24	4.20	CS5463-ISZ
Power Meter with Pulse Output, 24-SSOP	598-1097-5-ND	4.55	3.64	CS5466-ISZ

Ethernet

Description	Digi-Key Part No.	Price Each 1	25	Cirrus Logic Part No.
LAN Controller, 3.3V, 100-LQFP	598-1127-ND	8.36	7.53	CS8900A-CQ3Z
LAN Controller, 5V, 100-LQFP	598-1128-ND	9.46	7.57	CS8900A-CQZ
LAN Controller, 3.3V, 100-LQFP	598-1129-ND	9.93	8.94	CS8900A-IQ3Z
LAN Controller, 5V, 100-LQFP	598-1130-ND	9.45	8.51	CS8900-IQZ

STATIC PROTECTION

Protection of static sensitive parts is a MUST in today's semiconductor market.
To ensure the quality that Digi-Key customers have come to expect, the Digi-Key static control program includes proper static safety protection in the following areas:

- ***Receiving, Incoming Inspection, and QC***
- ***Order Picking***
- ***Final Inspection***
- ***Packaging and Shipping***

Shielded metallized bags are used in order picking, and 100% recyclable paper packaging is used in packaging and shipping.

As our program is continuously updated with the latest static control technology, you can be reassured that Digi-Key's static sensitive parts are quality safe, *all the way to your door step!*

• *Please Note:* SO-x packages are the same as x-SOIC packages •

ANALOG DEVICES — AMPLIFIERS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8015AR	AD8015AR-ND	Transimpedance Amp	8-SOIC	6.64	5.32	4.49
AD8015ARZ	AD8015ARZ-ND	Transimpedance Amp* ***NEW!***	8-SOIC	6.64	5.32	4.49

Audio/Video

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD813AR-14	AD813AR-14-ND	Triple Video Amp Single LP	14-SOIC	8.32	6.66	5.62
AD813ARZ-14	AD813ARZ-14-ND	Triple Video Amp Single LP*	14-SOIC	8.32	6.66	5.62
AD830ANZ	AD830ANZ-ND	Video Differential Amp HS* ***NEW!***	8-Dip	5.50	4.32	3.65
AD830AR	AD830AR-ND	Video Differential Amp HS	8-SOIC	5.40	4.32	3.65
AD830JR	AD830JR-ND	Video Differential Amp HS	8-SOIC	5.40	4.32	3.65
AD830JRZ-R7	AD830JRZ-R7CT-ND	Video Differential Amp HS* ***NEW!***	8-SOIC	5.40	4.32	3.65
AD830JRZ-R7	AD830JRZ-R7TR-ND	Video Differential Amp HS* ***NEW!***	8-SOIC	2571.75/750		
AD1991ASV	AD1991ASV-ND	Audio Powerstage Class-D	52-TQFP	14.58	13.13	11.64
AD1994ACPZ	AD1994ACPZ-ND	Audio Switching Amp* ***NEW!***	64-LFCSP	9.13	8.22	7.29
AD8013ARZ-14	AD8013ARZ-14-ND	Triple Video Amp*	14-SOIC	9.70	7.76	6.55
AD8075ARU	AD8075ARU-ND	Triple Video Buffer High-Speed	16-TSSOP	5.27	4.22	3.28
AD8075ARUZ	AD8075ARUZ-ND	Triple Video Buffer High-Speed* ***NEW!***	16-TSSOP	5.27	4.22	3.28
OP275GPZ	OP275GPZ-ND	Op Amp Bipolar/JFET Audio*	8-Dip	2.13	1.70	1.28
OP275GS	OP275GS-ND	Op Amp Bipolar/JFET Audio	8-SOIC	2.03	1.62	1.22
OP275GSZ	OP275GSZ-ND	Op Amp Bipolar/JFET Audio*	8-SOIC	2.03	1.62	1.22
OP279GSZ	OP279GSZ-ND	Op Amp Dual Single Supply R-R 60mA*	8-SOIC	2.57	2.06	1.60
SSM2210SZ	SSM2210SZ-ND	Transistor Audio Match*	8-SOIC	4.79	3.84	2.99
SSM2211CP-REEL7	SSM2211CP-REEL7CT-ND	Audio Amp Low Distortion 1.5W	8-LFCSP	.96	.80	.64
SSM2211CP-REEL7	SSM2211CP-REEL7TR-ND	Audio Amp Low Distortion 1.5W	8-LFCSP	798.00/1,500		
SSM2211SZ	SSM2211SZ-ND	Audio Amp Low Distortion 1.5W*	8-SOIC	1.26	1.05	.84

Buffer

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8570ARU	AD8570ARU-ND	Buffer Amp 16V R-R I/O	20-TSSOP	5.38	4.31	3.35

Comparator

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD790AQ	AD790AQ-ND	Precision Comparator HS	8-Dip	13.18	11.87	10.53
AD790JN	AD790JN-ND	Precision Comparator HS	8-Dip	8.16	6.53	5.51
AD790JNZ	AD790JNZ-ND	Precision Comparator HS*	8-Dip	8.16	6.53	5.51
AD790JRZ	AD790JRZ-ND	Precision Comparator HS* ***NEW!***	8-SOIC	8.16	6.53	5.51
AD8561AN	AD8561AN-ND	Comparator Single 7nS	8-Dip	4.16	3.33	2.59
AD8561ANZ	AD8561ANZ-ND	Comparator Single 7nS*	8-Dip	4.16	3.33	2.59
AD8561AR	AD8561AR-ND	Comparator Single 7nS	8-SOIC	4.16	3.33	2.59
AD8561AR-REEL7	AD8561AR-REEL7CT-ND	Comparator Single 7nS	8-SOIC	4.16	3.33	2.59
AD8561AR-REEL7	AD8561AR-REEL7TR-ND	Comparator Single 7nS	8-SOIC	2359.00/1,000		
AD8564AR	AD8564AR-ND	Comparator Quad 7nS	16-SOIC	8.20	6.56	5.54
AD8564ARZ	AD8564ARZ-ND	Comparator Quad 7nS*	16-SOIC	8.20	6.56	5.54
AD8564ARU-REEL	AD8564ARU-REELCT-ND	Comparator Quad 7nS	16-TSSOP	7.38	5.91	4.99
AD8564ARU-REEL	AD8564ARU-REELTR-ND	Comparator Quad 7nS	16-TSSOP	11440.00/2,500		
AD8564ARUZ-REEL	AD8564ARUZ-REELCT-ND	Comparator Quad 7nS*	16-TSSOP	7.38	5.91	4.99
AD8564ARUZ-REEL	AD8564ARUZ-REELTR-ND	Comparator Quad 7nS*	16-TSSOP	11440.00/2,500		
AD8611AR	AD8611AR-ND	Comparator Single 4nS HS	8-SOIC	5.36	4.29	3.34
AD8611ARZ	AD8611ARZ-ND	Comparator Single 4nS HS*	8-SOIC	5.36	4.29	3.34
AD8611ARMZ-R2	AD8611ARMZ-R2CT-ND	Comparator Single 4nS HS*	8-MSOP	5.72	4.58	3.87
AD8611ARMZ-R2	AD8611ARMZ-R2TR-ND	Comparator Single 4nS HS*	8-MSOP	929.50/250		
AD8612ARUZ	AD8612ARUZ-ND	Comparator Dual 4nS Fast* ***NEW!***	14-TSSOP	8.00	6.40	5.40
AD96685BR	AD96685BR-ND	Comparator Single Ultra-Fast	16-SOIC	5.84	4.68	3.95
AD96687BP	AD96687BP-ND	Comparator Dual 2.5nS	20-PLCC	6.40	5.12	4.32
AD96687BQ	AD96687BQ-ND	Comparator Dual 2.5nS	16-Dip	9.83	8.85	7.85
AD96687BR	AD96687BR-ND	Comparator Dual 2.5nS	16-SOIC	5.84	4.68	3.95
AD96687BRZ	AD96687BRZ-ND	Comparator Dual 2.5nS*	16-SOIC	5.84	4.68	3.95
ADCMP370AKS-REEL7	ADCMP370AKSREELCT-ND	Comparator, Open-Drain, High Voltage	SC70-5	.84	.70	.56
ADCMP370AKS-REEL7	ADCMP370AKSREELTR-ND	Comparator, Open-Drain, High Voltage	SC70-5	1092.00/3,000		
ADCMP371AKS-REEL7	ADCMP371AKSREELCT-ND	Comparator, Push-Pull	SC70-5	.84	.70	.56
ADCMP371AKS-REEL7	ADCMP371AKSREELTR-ND	Comparator, Push-Pull	SC70-5	1092.00/3,000		
ADCMP561BRQ	ADCMP561BRQ-ND	Comparator Dual HS PECL	16-QSOP	5.40	4.32	3.65
ADCMP565BP	ADCMP565BP-ND	Comparator Dual Ultra-Fast	20-PLCC	8.75	7.88	6.99
CMP04FSZ	CMP04FSZ-ND	Comparator Quad LP*	14-SOIC	8.53	7.68	6.81
CMP401GSZ	CMP401GSZ-ND	Comparator Low Voltage 23nS*	16-SOIC	6.08	4.87	4.11
CMP402GS	CMP402GS-ND	Comparator Low Voltage 65nS	16-SOIC	6.42	5.14	4.34
CMP401GSZ	CMP401GSZ-ND	Comparator Low Voltage 65nS*	16-SOIC	6.08	4.87	4.11

Differential

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8129AR	AD8129AR-ND	Differential Receiver Amp HS	8-SOIC	4.12	3.30	2.57
AD8129ARZ	AD8129ARZ-ND	Differential Receiver Amp HS*	8-SOIC	4.12	3.30	2.57
AD8130AR	AD8130AR-ND	Diff. Receiver Amp 270MHz HS	8-SOIC	4.12	3.30	2.57
AD8130ARZ	AD8130ARZ-ND	Diff. Receiver Amp 270MHz HS*	8-SOIC	4.12	3.30	2.57
AD8130AR-REEL7	AD8130AR-REEL7CT-ND	Diff. Receiver Amp 270MHz HS	8-SOIC	4.12	3.30	2.57
AD8130AR-REEL7	AD8130AR-REEL7TR-ND	Diff. Receiver Amp 270MHz HS	8-SOIC	2333.00/1,000		
AD8130ARM	AD8130ARM-ND	Diff. Receiver Amp 270MHz HS	8-MSOP	4.12	3.30	2.57
AD8130ARMZ	AD8130ARMZ-ND	Diff. Receiver Amp 270MHz HS*	8-MSOP	4.12	3.30	2.57
AD8131AR	AD8131AR-ND	Differential Driver 400MHz HS	8-SOIC	4.77	3.82	2.97
AD8131ARZ	AD8131ARZ-ND	Differential Driver 400MHz HS*	8-SOIC	4.77	3.82	2.97
AD8131ARM	AD8131ARM-ND	Diff. Driver 400MHz HS	8-MSOP	4.77	3.82	2.97
AD8131ARM-REEL7	AD8131ARM-REEL7CT-ND	Diff. Driver 400MHz HS	8-MSOP	4.77	3.82	2.97
AD8131ARM-REEL7	AD8131ARM-REEL7TR-ND	Diff. Driver 400MHz HS	8-MSOP	2703.00/1,000		
AD8131ARMZ	AD8131ARMZ-ND	Diff. Driver 400MHz HS* ***NEW!***	8-MSOP	4.77	3.82	2.97
AD8202YR	AD8202YR-ND	High Common-Mode Volt., Single-Supply Differential Amp	8-SOIC	3.15	2.52	1.96
AD8202YRZ	AD8202YRZ-ND	High Common-Mode Volt., Single-Supply Differential Amp*	8-SOIC	3.15	2.52	1.96
AD8205YR	AD8205YR-ND	42V System Differential Amp	8-SOIC	3.15	2.52	1.96
AD8205YRZ	AD8205YRZ-ND	42V System Differential Amp*	8-SOIC	3.15	2.52	1.96
AD8205YR-REEL7	AD8205YR-REEL7TR-ND	42V System Differential Amp	8-SOIC	1785.00/1,000		
AD8324JRQ	AD8324JRQ-ND	3.3V Cable Line Driver	20-QSOP	4.59	3.68	2.86
AD8328ACP	AD8328ACP-ND	5V Cable Line Driver	20-LFCSP	4.93	3.95	3.07
AD8328ACPZ	AD8328ACPZ-ND	5V Cable Line Driver*	20-LFCSP	4.93	3.95	3.07
AD8328ARQ	AD8328ARQ-ND	5V Cable Line Driver	20-QSOP	5.18	4.14	3.22
AD8328ARQZ	AD8328ARQZ-ND	5V Cable Line Driver*	20-QSOP	5.18	4.14	3.22
AD8390ACP-R2	AD8390ACP-R2CT-ND	Voltage Feedback Amp ADSL, LP	16-LFCSP	5.58	4.47	3.77
AD8390ACP-R2	AD8390ACP-R2TR-ND	Voltage Feedback Amp ADSL, LP	16-LFCSP	906.75/250		
AD8390ARC	AD8390ARC-ND	Voltage Feedback Amp ADSL, LP	16-QSOP	5.78	4.63	3.91
AD8390ARCZ	AD8390ARCZ-ND	Voltage Feedback Amp ADSL, LP*	16-QSOP	5.78	4.63	3.91

General Purpose

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD582KD	AD582KD-ND	Sample/Hold Amp	14-Dip	33.23	31.01	28.80
AD684AQ	AD684AQ-ND	Sample/Hold Amp Quad	16-CDip	56.64	52.87	49.09
AD684JQ	AD684JQ-ND	Sample/Hold Amp Quad	16-Dip	47.22	44.08	40.93
AD684SQ	AD684SQ-ND	Sample/Hold Amp Quad	16-CDip	185.36	173.00	160.65
AD708AQ	AD708AQ-ND	Op Amp Dual Low Offset Voltage	8-Dip	9.10	7.28	6.15
AD708BQ	AD708BQ-ND	Op Amp Dual Low Offset Voltage	8-CDip	12.79	11.52	10.22
AD708JNZ	AD708JNZ-ND	Op Amp Dual Low Offset Voltage* ***NEW!***	8-Dip	6.14	4.92	4.15
AD712AQ	AD712AQ-ND	Precision Op Amp Dual BiFET	8-Dip	9.36	7.49	6.32
AD712JN	AD712JN-ND	Precision Op Amp Dual BiFET	8-Dip	3.56	2.85	2.22
AD712JNZ	AD712JNZ-ND	Precision Op Amp Dual BiFET*	8-Dip	3.40	2.72	2.12
AD712JRZ	AD712JRZ-ND	Precision Op Amp Dual BiFET* ***NEW!***	8-SOIC	3.40	2.72	2.12
AD712JR-REEL7	AD712JR-REEL7TR-ND	Precision Op Amp Dual BiFET	8-SOIC	1540.50/750		
AD712KN	AD712KN-ND	Precision Op Amp Dual BiFET	8-Dip	6.32	5.06	4.27
AD712KNZ	AD712KNZ-ND	Precision Op Amp Dual BiFET*	8-Dip	6.02	4.82	4.07
AD712KR	AD712KR-ND	Precision Op Amp Dual BiFET	8-SOIC	6.06	4.85	4.10
AD712KRZ	AD712KRZ-ND	Precision Op Amp Dual BiFET*	8-SOIC	5.76	4.61	3.89
AD712KR-REEL7	AD712KR-REEL7CT-ND	Precision Op Amp Dual BiFET	8-SOIC	6.06	4.85	4.10
AD712KR-REEL7	AD712KR-REEL7TR-ND	Precision Op Amp Dual BiFET	8-SOIC	2886.00/750		
AD713AQ	AD713AQ-ND	Precision Op Amp Quad BiFET	14-Dip	10.03	9.03	8.01
AD713BQ	AD713BQ-ND	Precision Op Amp Quad BiFET	14-CDip	39.09	36.49	33.88
AD713JN	AD713JN-ND	Precision Op Amp Quad BiFET	14-Dip	8.32	6.66	5.62
AD713JNZ	AD713JNZ-ND	Precision Op Amp Quad BiFET*	14-Dip	7.92	6.34	5.35
AD713JR-16-REEL7	AD713JR-16REEL7CT-ND	Precision Op Amp Quad BiFET	16-SOIC	7.92	6.34	5.35
AD713JR-16-REEL7	AD713JR-16REEL7TR-ND	Precision Op Amp Quad BiFET	16-SOIC	2163.20/400		
AD713JR-16	AD713JR-16-ND	Precision Op Amp Quad BiFET	16-SOIC	8.32	6.66	5.62
AD713JRZ-16	AD713JRZ-16-ND	Precision Op Amp Quad BiFET*	16-SOIC	7.92	6.34	5.35
AD713KN	AD713KN-ND	Precision Op Amp Quad BiFET	14-Dip	10.70	9.63	8.54
AD713KNZ	AD713KNZ-ND	Precision Op Amp Quad BiFET*	14-Dip	10.18	9.17	8.13
AD743JN	AD743JN-ND	Op Amp BiFET Low Noise	8-Dip	8.88	8.00	7.09
AD743JNZ	AD743JNZ-ND	Op Amp BiFET Low Noise*	8-Dip	8.46	7.62	6.76
AD744JN	AD744JN-ND	Precision Op Amp BiFET Mono	8-Dip	4.52	3.62	2.82
AD744JNZ	AD744JNZ-ND	Precision Op Amp BiFET Mono*	8-Dip	4.52	3.62	2.82
AD744JR	AD744JR-ND	Precision Op Amp BiFET Mono	8-SOIC	5.00	4.00	3.11
AD744JRZ	AD744JRZ-ND	Precision Op Amp BiFET Mono*	8-SOIC	5.00	4.00	3.11
AD744KNZ	AD744KNZ-ND	Precision Op Amp BiFET Mono*	8-Dip	5.72	4.58	3.87
AD744KR	AD744KR-ND	Precision Op Amp BiFET Mono	8-SOIC	6.30	5.04	4.26
AD744KRZ	AD744KRZ-ND	Precision Op Amp BiFET Mono*	8-SOIC	6.30	5.04	4.26
AD746JN	AD746JN-ND	Precision Op Amp BiFET Dual	8-Dip	7.32	5.86	4.95
AD746JNZ	AD746JNZ-ND	Precision Op Amp BiFET Dual*	8-Dip	7.32	5.86	4.95
AD746JR	AD746JR-ND	Precision Op Amp BiFET Dual	8-SOIC	7.32	5.86	4.95
AD746JRZ	AD746JRZ-ND	Precision Op Amp BiFET Dual*	8-SOIC	7.32	5.86	4.95
AD781JNZ	AD781JNZ-ND	Sample and Hold Amp 700nS*	8-Dip	10.40	9.36	8.30
AD817AN	AD817AN-ND	Op Amp Single/Dual HS LP	8-Dip	3.60	2.88	2.24
AD817ANZ	AD817ANZ-ND	Op Amp Single/Dual HS LP*	8-Dip	3.60	2.88	2.24
AD817ARZ	AD817ARZ-ND	Op Amp Single/Dual HS LP* ***NEW!***	8-SOIC	3.60	2.88	2.24
AD825AR	AD825AR-ND	Op Amp JFET High Speed	8-SOIC	3.76	3.01	2.34
AD825ARZ	AD825ARZ-ND	Op Amp JFET High Speed*	8-SOIC	3.76	3.01	2.34
AD827JNZ	AD827JNZ-ND	Op Amp Dual High Speed LP*	8-Dip	8.38	7.55	6.69
AD827JRZ-16	AD827JRZ-16-ND	Op Amp Dual High Speed LP*	16-SOIC	8.38	7.55	6.69
AD828AN	AD828AN-ND	Video Op Amp Dual LP	8-Dip	4.97	3.98	3.10
AD828AR	AD828AR-ND	Video Op Amp Dual LP	8-SOIC	4.97	3.98	3.10
AD828ARZ	AD828ARZ-ND	Video Op Amp Dual LP* ***NEW!***	8-SOIC	4.97	3.98	3.10
AD843JNZ	AD843JNZ-ND	Op Amp Fast-Settling HS* ***NEW!***	8-Dip	8.56	6.85	5.78
AD843JR-16	AD843JR-16-ND	Op Amp Fast-Settling HS	16-SOIC	9.42	7.54	6.36
AD843KNZ	AD843KNZ-ND	Op Amp Fast-Settling HS* ***NEW!***	8-Dip	9.76	7.81	6.59
AD843SQ	AD843SQ-ND	Op Amp Fast Settling HS	8-Dip	32.12	29.98	27.84
AD845JN	AD845JN-ND	Precision Op Amp 16MHz	8-Dip	6.40	5.12	4.32
AD845JNZ	AD845JNZ-ND	Precision Op Amp 16MHz* ***NEW!***	8-Dip	6.40	5.12	4.32
AD845JR-16	AD845JR-16-ND	Precision Op Amp 16MHz	16-SOIC	7.06	5.65	4.77
AD845JRZ-16	AD845JRZ-16-ND	Precision Op Amp 16MHz*	16-SOIC	7.06	5.65	4.77
AD845KN	AD845KN-ND	Precision Op Amp 16MHz	8-Dip	7.40	5.92	5.00
AD8044AN	AD8044AN-ND	Op Amp Voltage-Feedback R-R Quad	14-Dip	8.00	6.40	5.40
AD8044ARZ-14	AD8044ARZ-14-ND	Op Amp Voltage-Feedback R-R Quad* ***NEW!***	14-SOIC	8.00	6.40	5.40
AD8048AR	AD8048AR-ND	Op Amp Voltage-Feedback GP	8-SOIC	4.86	3.89	3.03
AD8067ARTZ-R2	AD8067ARTZ-R2CT-ND	FastFET™ Input Amp*	SOT-23-5	6.46	5.17	4.37
AD8067ARTZ-R2	AD8067ARTZ-R2TR-ND	FastFET™ Input Amp*	SOT-23-5	1049.75/250		
AD8515AKSZ-R2	AD8515AKSZ-R2CT-ND	Op Amp 1.8V R-R In/Out LP*	SC70-5	1.35	1.13	.90
AD8515AKSZ-R2	AD8515AKSZ-R2TR-ND	Op Amp 1.8V R-R In/Out LP*	SC70-5	168.75/250		
AD8515ARTZ-R2	AD8515ARTZ-R2CT-ND	Op Amp 1.8V R-R In/Out LP*	SOT-23-5	1.26	1.05	.84
AD8515ARTZ-R2	AD8515ARTZ-R2TR-ND	Op Amp 1.8V R-R In/Out LP*	SOT-23-5	157.50/250		
AD8515ARTZ-REEL7	AD8515ARTZREEL7CT-ND	Op Amp 1.8V R-R In/Out LP*	SOT-23-5	1.12	.84	.63
AD8515ARTZ-REEL7	AD8515ARTZREEL7TR-ND	Op Amp 1.8V R-R In/Out LP*	SOT-23-5	1092.00/3,000		
AD8519ART-REEL7	AD8519ART-REEL7CT-ND	Op Amp R-R 8MHz	SOT-23-5	2.08	1.66	1.25
AD8519ARTZ-REEL7	AD8519ARTZ-REEL7CT-ND	Op Amp R-R 8MHz*	SOT-23-5	2.08	1.66	1.25
AD8519ARTZ-REEL7	AD8519ARTZ-REEL7TR-ND	Op Amp R-R 8MHz*	SOT-23-5	3186.00/3,000		
AD8529AR	AD8529AR-ND	Op Amp Dual R-R Out	8-SOIC	2.75	2.20	1.71
AD8529ARZ	AD8529ARZ-ND	Op Amp Dual R-R Out*	8-SOIC	2.75	2.20	1.71
AD8531AR	AD8531AR-ND	Op Amp Single R-R In/Out	8-SOIC	1.24	.93	.70
AD8531ARZ	AD8531ARZ-ND	Op Amp Single R-R In/Out*	8-SOIC	1.24	.93	.70
AD8531ARTZ-REEL7	AD8531ARTZ-REEL7CT-ND	Op Amp Single R-R In/Out*	SOT-23-5	.81	.68	.54
AD8531ARTZ-REEL7	AD8531ARTZ-REEL7TR-ND	Op Amp Single R-R In/Out*	SOT-23-5	1053.00/3,000		
AD8532ARMZ-R2	AD8532ARMZ-R2CT-ND	Op Amp Dual R-R In/Out* ***NEW!***	8-MSOP	1.35	1.08	.81
AD8532ARMZ-R2	AD8532ARMZ-R2TR-ND	Op Amp Dual R-R In/Out* ***NEW!***	8-MSOP	189.00/250		
AD8532ARZ	AD8532ARZ-ND	Op Amp Dual R-R In/Out*	8-SOIC	1.23	1.03	.82
AD8534AR	AD8534AR-ND	Op Amp Single R-R In/Out	14-SOIC	1.77	1.48	1.18
AD8534ARZ	AD8534ARZ-ND	Op Amp Single R-R In/Out* ***NEW!***	14-SOIC	1.48	1.18	.89
AD8541AR	AD8541AR-ND	Op Amp Single R-R In/Out	8-SOIC	1.24	.93	.70
AD8541ARZ	AD8541ARZ-ND	Op Amp Single R-R In/Out*	8-SOIC	1.24	.93	.70

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8541ART-REEL7	AD8541ART-REEL7CT-ND	Op Amp Single R-R In/Out	SOT-23-5	.92	.69	.52
AD8541ARTZ-REEL7	AD8541ARTZ-REEL7CT-ND	Op Amp Single R-R In/Out*	SOT-23-5	.81	.68	.54
AD8541ARTZ-REEL7	AD8541ARTZ-REEL7TR-ND	Op Amp Single R-R In/Out*	SOT-23-5	1053.00/3,000		
AD8542AR	AD8542AR-ND	Op Amp Dual R-R In/Out	8-SOIC	1.23	1.03	.82
AD8542AR-REEL7	AD8542AR-REEL7CT-ND	Op Amp Dual R-R In/Out	8-SOIC	1.23	1.03	.82
AD8542AR-REEL7	AD8542AR-REEL7TR-ND	Op Amp Dual R-R In/Out	8-SOIC	545.00/1,000		
AD8542ARUZ	AD8542ARUZ-ND	Op Amp Dual R-R In/Out*	8-TSSOP	1.23	1.03	.82
AD8542ARZ	AD8542ARZ-ND	Op Amp Dual R-R In/Out*	8-SOIC	1.23	1.03	.82
AD8544AR	AD8544AR-ND	Op Amp Quad R-R In/Out	14-SOIC	1.77	1.48	1.18
AD8544ARUZ	AD8544ARUZ-ND	Op Amp Quad R-R In/Out*	14-TSSOP	1.77	1.48	1.18
AD8544ARZ	AD8544ARZ-ND	Op Amp Quad R-R In/Out*	14-SOIC	1.77	1.48	1.18
AD8551AR	AD8551AR-ND	Op Amp Single R-R 0-Drift	8-SOIC	2.32	1.86	1.45
AD8551ARZ	AD8551ARZ-ND	Op Amp Single R-R 0-Drift* ***NEW!***	8-SOIC	2.32	1.86	1.45
AD8551ARMZ-REEL	AD8551ARMZ-REELCT-ND	Op Amp Single R-R 0-Drift*	8-MSOP	2.33	1.86	1.40
AD8551ARMZ-REEL	AD8551ARMZ-REELTR-ND	Op Amp Single R-R 0-Drift*	8-MSOP	3570.00/3,000		
AD8552AR	AD8552AR-ND	Op Amp Dual R-R 0-Drift	8-SOIC	3.67	2.94	2.29
AD8552ARU	AD8552ARU-ND	Op Amp Dual R-R 0-Drift	8-TSSOP	3.67	2.94	2.29
AD8552ARUZ	AD8552ARUZ-ND	Op Amp Dual R-R 0-Drift* ***NEW!***	8-TSSOP	3.67	2.94	2.29
AD8552ARZ	AD8552ARZ-ND	Op Amp Dual R-R 0-Drift*	8-SOIC	2.45	2.29	2.12
AD8554ARUZ	AD8554ARUZ-ND	Op Amp Quad R-R 0-Drift* ***NEW!***	14-TSSOP	5.76	4.61	3.89
AD8554ARZ	AD8554ARZ-ND	Op Amp Quad R-R 0-Drift*	14-SOIC	5.76	4.61	3.89
AD8566ARMZ-R2	AD8566ARMZ-R2CT-ND	Op Amp 16V R-R In/Out* ***NEW!***	8-MSOP	3.04	2.43	1.89
AD8566ARMZ-R2	AD8566ARMZ-R2TR-ND	Op Amp 16V R-R In/Out* ***NEW!***	8-MSOP	449.00/250		
AD8571ARZ	AD8571ARZ-ND	Op Amp R-R In/Out 0-Drift*	8-SOIC	2.59	2.07	1.61
AD8572AR	AD8572AR-ND	Op Amp Dual R-R In/Out	8-SOIC	4.16	3.33	2.59
AD8572ARZ	AD8572ARZ-ND	Op Amp Dual R-R In/Out*	8-SOIC	4.16	3.33	2.59
AD8572ARU	AD8572ARU-ND	Op Amp Dual R-R In/Out	8-TSSOP	4.16	3.33	2.59
AD8574AR	AD8574AR-ND	Op Amp Dual R-R 0-Drift	14-SOIC	6.60	5.28	4.46
AD8574ARZ	AD8574ARZ-ND	Op Amp Dual R-R 0-Drift*	14-SOIC	6.60	5.28	4.46
AD8574ARUZ	AD8574ARUZ-ND	Op Amp Dual R-R 0-Drift*	14-TSSOP	6.60	5.28	4.46
AD8592ARM-REEL	AD8592ARM-REELCT-ND	Op Amp Dual R-R with Shutdown	10-MSOP	1.17	.98	.78
AD8592ARM-REEL	AD8592ARM-REELTR-ND	Op Amp Dual R-R with Shutdown	10-MSOP	1521.00/3,000		
AD8594AR	AD8594AR-ND	Op Amp Dual R-R with Shutdown	16-SOIC	1.86	1.55	1.24
AD8594ARZ	AD8594ARZ-ND	Op Amp Dual R-R with Shutdown*	16-SOIC	1.55	1.24	.93
AD8602AR	AD8602AR-ND	Op Amp Dual R-R In/Out	8-SOIC	1.88	1.50	1.13
AD8602ARZ	AD8602ARZ-ND	Op Amp Dual R-R In/Out*	8-SOIC	1.88	1.50	1.13
AD8602AR-REEL7	AD8602AR-REEL7CT-ND	Op Amp Dual R-R In/Out	8-SOIC	1.88	1.50	1.13
AD8602AR-REEL7	AD8602AR-REEL7TR-ND	Op Amp Dual R-R In/Out	8-SOIC	975.00/1,000		
AD8602ARM-REEL	AD8602ARM-REELCT-ND	Op Amp Dual R-R In/Out	8-MSOP	1.78	1.42	1.07
AD8602ARM-REEL	AD8602ARM-REELTR-ND	Op Amp Dual R-R In/Out	8-MSOP	2727.00/3,000		
AD8602ARMZ-REEL	AD8602ARMZ-REELTR-ND	Op Amp Dual R-R In/Out* ***NEW!***	8-MSOP	2727.00/3,000		
AD8602ARMZ-R2	AD8602ARMZ-R2CT-ND	Op Amp Dual R-R In/Out*	8-MSOP	2.23	1.78	1.34
AD8602ARMZ-R2	AD8602ARMZ-R2TR-ND	Op Amp Dual R-R In/Out*	8-MSOP	311.50/250		
AD8603AUJZ-R2	AD8603AUJZ-R2CT-ND	Op Amp CMOS R-R In/Out*	TSOT-23-5	2.39	1.91	1.49
AD8603AUJZ-R2	AD8603AUJZ-R2TR-ND	Op Amp CMOS R-R In/Out*	TSOT-23-5	352.50/250		
AD8603AUJZ-REEL7	AD8603AUJZREEL7CT-ND	Op Amp CMOS R-R In/Out*	TSOT-23-5	1.68	1.34	1.01
AD8603AUJZ-REEL7	AD8603AUJZREEL7TR-ND	Op Amp CMOS R-R In/Out*	TSOT-23-5	2574.00/3,000		
AD8604AR	AD8604AR-ND	Op Amp Quad R-R In/Out	14-SOIC	2.27	1.82	1.42
AD8604ARZ	AD8604ARZ-ND	Op Amp Quad R-R In/Out*	14-SOIC	2.27	1.82	1.42
AD8604ARU	AD8604ARU-ND	Op Amp Quad R-R In/Out	14-TSSOP	2.27	1.82	1.42
AD8604ARUZ	AD8604ARUZ-ND	Op Amp Quad R-R In/Out*	14-TSSOP	2.27	1.82	1.42
AD8605ART-REEL7	AD8605ART-REEL7CT-ND	Op Amp Single R-R In/Out	SOT-23-5	1.68	1.34	1.01
AD8605ART-REEL7	AD8605ART-REEL7TR-ND	Op Amp Single R-R In/Out	SOT-23-5	2574.00/3,000		
AD8605ARTZ-REEL7	AD8605ARTZREEL7CT-ND	Op Amp Single R-R In/Out*	SOT-23-5	1.68	1.34	1.01
AD8605ARTZ-REEL7	AD8605ARTZREEL7TR-ND	Op Amp Single R-R In/Out*	SOT-23-5	2574.00/3,000		
AD8606AR	AD8606AR-ND	Op Amp Dual R-R In/Out	8-SOIC	3.15	2.52	1.96
AD8606ARZ	AD8606ARZ-ND	Op Amp Dual R-R In/Out*	8-SOIC	3.15	2.52	1.96
AD8606ARMZ-R2	AD8606ARMZ-R2CT-ND	Op Amp Dual R-R In/Out*	8-MSOP	3.78	3.03	2.36
AD8606ARMZ-R2	AD8606ARMZ-R2TR-ND	Op Amp Dual R-R In/Out*	8-MSOP	558.50/250		
AD8606ARM-REEL	AD8606ARM-REELCT-ND	Op Amp Dual R-R In/Out	8-MSOP	2.66	2.13	1.66
AD8606ARM-REEL	AD8606ARM-REELTR-ND	Op Amp Dual R-R In/Out	8-MSOP	4461.00/3,000		
AD8606ARMZ-REEL	AD8606ARMZREELCT-ND	Op Amp Dual R-R In/Out*	8-MSOP	2.66	2.13	1.66
AD8606ARMZ-REEL	AD8606ARMZREELTR-ND	Op Amp Dual R-R In/Out*	8-MSOP	4461.00/3,000		
AD8607AR	AD8607AR-ND	Op Amp Dual R-R CMOS LN	8-SOIC	2.70	2.16	1.68
AD8607ARZ	AD8607ARZ-ND	Op Amp Dual R-R CMOS LN*	8-SOIC	2.70	2.16	1.68
AD8607ARM-R2	AD8607ARM-R2CT-ND	Op Amp Dual R-R CMOS LN	8-MSOP	3.80	3.05	2.37
AD8607ARM-R2	AD8607ARM-R2TR-ND	Op Amp Dual R-R CMOS LN	8-MSOP	562.00/250		
AD8608AR	AD8608AR-ND	Op Amp Quad R-R In/Out	14-SOIC	4.16	3.33	2.59
AD8608ARZ	AD8608ARZ-ND	Op Amp Quad R-R In/Out*	14-SOIC	4.16	3.33	2.59
AD8608ARU	AD8608ARU-ND	Op Amp Quad R-R In/Out	14-TSSOP	4.16	3.33	2.59
AD8608ARUZ	AD8608ARUZ-ND	Op Amp Quad R-R In/Out*	14-TSSOP	4.16	3.33	2.59
AD8609AR	AD8609AR-ND	Op Amp Quad R-R CMOS	14-SOIC	4.88	3.91	3.04
AD8609ARZ	AD8609ARZ-ND	Op Amp Quad R-R CMOS*	14-SOIC	4.88	3.91	3.04
AD8609ARU	AD8609ARU-ND	Op Amp Quad R-R CMOS	14-TSSOP	4.88	3.91	3.04
AD8609ARUZ	AD8609ARUZ-ND	Op Amp Quad R-R CMOS*	14-TSSOP	4.88	3.91	3.04
AD8614ART-REEL7	AD8614ART-REEL7CT-ND	Op Amp Single R-R for LCD	SOT-23-5	2.48	1.98	1.49
AD8614ARTZ-REEL7	AD8614ARTZ-REEL7CT-ND	Op Amp Single R-R for LCD*	SOT-23-5	2.48	1.98	1.49
AD8614ARTZ-REEL7	AD8614ARTZ-REEL7TR-ND	Op Amp Single R-R for LCD*	SOT-23-5	3801.00/3,000		
AD8648ARUZ	AD8648ARUZ-ND	Amp Quad 24MHz R-R* ***NEW!***	14-TSSOP	2.48	1.98	1.54
AD648ARZ	AD8648ARZ-ND	Amp Quad 24MHz R-R* ***NEW!***	14-SOIC	2.48	1.98	1.54
AD9631ANZ	AD9631ANZ-ND	Op Amp Voltage-Feedback* ***NEW!***	8-Dip	8.66	6.93	5.85
AD9632AR	AD9632AR-ND	Op Amp Voltage-Feedback	8-SOIC	8.34	6.68	5.63
AD9632ARZ	AD9632ARZ-ND	Op Amp Voltage-Feedback*	8-SOIC	8.34	6.68	5.63
ADA4851-1YRJZ-R2	ADA4851-1YRJZR2CT-ND	Op Amp High Speed, R-R*	SOT-23-6	1.73	1.38	1.04
ADA4851-1YRJZ-R2	ADA4851-1YRJZR2TR-ND	Op Amp High Speed, R-R*	SOT-23-6	241.50/250		
ADA4851-4YRUZ	ADA4851-4YRUZ-ND	Op Amp High Speed, R-R*	14-TSSOP	3.06	2.45	1.91
ADA4853-1AKSZ-R2	ADA4853-1AKSZ-R2CT-ND	Op Amp Video, R-R Out* ***NEW!***	SC70-6	1.73	1.38	1.04
ADA4853-1AKSZ-R2	ADA4853-1AKSZ-R2TR-ND	Op Amp Video, R-R Out* ***NEW!***	SC70-6	241.50/250		
OP11EPZ	OP11EPZ-ND	Op Amp Quad 741-Type*	14-Dip	9.31	8.39	7.44
OP11GPZ	OP11GPZ-ND	Op Amp Quad 741-Type*	14-Dip	5.33	4.27	3.32
OP15EZ	OP15EZ-ND	Op Amp Precision JFET Input*	8-CDip	11.93	10.74	9.53
OP179GRT-REEL7	OP179GRT-REEL7CT-ND	Op Amp R-R In/Out	SOT-23-5	1.30	1.04	.78
OP179GRT-REEL7	OP179GRT-REEL7TR-ND	Op Amp R-R In/Out	SOT-23-5	1998.00/3,000		
OP179GRTZ-REEL7	OP179GRTZ-REEL7CT-ND	Op Amp R-R In/Out*	SOT-23-5	1.30	1.04	.78
OP179GRTZ-REEL7	OP179GRTZ-REEL7TR-ND	Op Amp R-R In/Out*	SOT-23-5	1998.00/3,000		
OP183GS	OP183GS-ND	Op Amp 5MHz Low Noise	8-SOIC	3.92	3.14	2.44
OP183GSZ	OP183GSZ-ND	Op Amp 5MHz Low Noise*	8-SOIC	3.92	3.14	2.44
OP200EZ	OP200EZ-ND	Op Amp Dual Low Offset*	8-CDip	11.00	9.90	8.78
OP275GS-REEL7	OP275GS-REEL7CT-ND	Op Amp Dual Bipolar	8-SOIC	2.03	1.62	1.22
OP275GS-REEL7	OP275GS-REEL7TR-ND	Op Amp Dual Bipolar	8-SOIC	1053.00/1,000		
OP291GSZ	OP291GSZ-ND	Op Amp Dual Single Supply R-R*	8-SOIC	4.25	3.41	2.65
OP292GSZ	OP292GSZ-ND	Op Amp Dual Single Supply*	8-SOIC	3.02	2.42	1.88
OP293ESZ	OP293ESZ-ND	Op Amp Dual Micropower R-R*	8-SOIC	8.82	7.06	5.96
OP293FSZ	OP293FSZ-ND	Op Amp Dual Micropower R-R*	8-SOIC	4.52	3.62	2.82
OP293FS-REEL7	OP293FS-REEL7CT-ND	Op Amp Dual Micropower R-R	8-SOIC	4.52	3.62	2.82
OP293FSZ-REEL7	OP293FSZ-REEL7CT-ND	Op Amp Dual Micropower R-R*	8-SOIC	4.52	3.62	2.82
OP293FSZ-REEL7	OP293FSZ-REEL7TR-ND	Op Amp Dual Micropower R-R*	8-SOIC	2563.00/1,000		
OP295GPZ	OP295GPZ-ND	Op Amp Dual R-R*	8-Dip	4.07	3.26	2.54
OP295GS-REEL7	OP295GS-REEL7TR-ND	Op Amp Dual R-R	8-SOIC	2244.00/1,000		
OP295GSZ	OP295GSZ-ND	Op Amp Dual R-R*	8-SOIC	3.96	3.17	2.47
OP296GSZ	OP296GSZ-ND	Op Amp Dual R-R Low Power*	8-SOIC	3.56	2.85	2.22
OP400AY	OP400AY-ND	Op Amp Quad Low Offset	14-CDip	30.03	28.03	26.03
OP400EY	OP400EY-ND	Op Amp Quad Low Offset	14-CDip	15.83	14.25	12.64
OP400FY	OP400FY-ND	Op Amp Quad Low Offset	14-CDip	10.71	9.65	8.56
OP400GPZ	OP400GPZ-ND	Op Amp Quad Low Offset*	14-Dip	8.78	7.03	5.93
OP400GSZ	OP400GSZ-ND	Op Amp Quad Low Offset*	16-SOIC	8.78	7.03	5.93
OP400HPZ	OP400HPZ-ND	Op Amp Quad Low Offset*	14-Dip	9.56	7.65	6.46
OP400HSZ	OP400HSZ-ND	Op Amp Quad Low Offset*	16-SOIC	9.56	7.65	6.46
OP492GSZ	OP492GSZ-ND	Op Amp Quad Single Supply*	14-SOIC	5.24	4.20	3.27
OP495GSZ	OP495GSZ-ND	Op Amp Quad R-R*	16-SOIC	7.78	6.23	5.26
SMP04EPZ	SMP04EPZ-ND	Amp Quad Sample-Hold* ***NEW!***	16-Dip	8.66	7.80	6.92
SMP04ES	SMP04ES-ND	Amp Quad Sample-Hold	16-SOIC	8.76	7.89	7.00
SMP04ESZ	SMP04ESZ-ND	Amp Quad Sample-Hold*	16-SOIC	8.76	7.89	7.00
SMP08FS	SMP08FS-ND	Amp Octal Sample-Hold	16-SOIC	12.59	11.34	10.06
SMP08FSZ	SMP08FSZ-ND	Amp Octal Sample-Hold*	16-SOIC	12.59	11.34	10.06
		High-Speed				
AD585AQ	AD585AQ-ND	Prec. Sample and Hold Amp Mono HS	14-Dip	23.58	22.01	20.44
AD810AN	AD810AN-ND	Current-Feedback Amp Video LP	8-Dip	4.93	3.95	3.07
AD810ANZ	AD810ANZ-ND	Current-Feedback Amp Video LP*	8-Dip	4.93	3.95	3.07
AD810AR	AD810AR-ND	Current-Feedback Amp Video LP	8-SOIC	4.93	3.95	3.07
AD810ARZ	AD810ARZ-ND	Current-Feedback Amp Video LP*	8-SOIC	4.93	3.95	3.07
AD811AN	AD811AN-ND	Current-Feedback Amp Video HS	8-Dip	7.68	6.15	5.19
AD811ANZ	AD811ANZ-ND	Current-Feedback Amp Video HS* ***NEW!***	8-Dip	7.68	6.15	5.19
AD811AR-16	AD811AR-16-ND	Current-Feedback Amp Video HS	16-SOIC	8.44	6.76	5.70
AD811ARZ-16	AD811ARZ-16-ND	Current-Feedback Amp Video HS*	16-SOIC	8.44	6.76	5.70
AD811JRZ	AD811JRZ-ND	Current-Feedback Amp Video HS* ***NEW!***	8-SOIC	7.68	6.15	5.19
AD812AN	AD812AN-ND	Current-Feedback Amp Dual LP	8-Dip	5.84	4.68	3.95
AD812ARZ	AD812ARZ-ND	Current-Feedback Amp Dual LP* ***NEW!***	8-SOIC	5.84	4.68	3.95
AD826ANZ	AD826ANZ-ND	Volt.-Feedback Amp Dual HS* ***NEW!***	8-Dip	4.97	3.98	3.10
AD826ARZ	AD826ARZ-ND	Volt.-Feedback Amp Dual HS* ***NEW!***	8-SOIC	4.97	3.98	3.10
AD827SQ	AD827SQ-ND	Op Amp HS Dual LP	8-CDip	30.14	28.13	26.12
AD829AR	AD829AR-ND	Video Op Amp Low Noise HS	8-SOIC	5.33	4.27	3.32
AD829ARZ	AD829ARZ-ND	Video Op Amp Low Noise HS* ***NEW!***	8-SOIC	5.33	4.27	3.32
AD829JN	AD829JN-ND	Video Op Amp Low Noise HS	8-Dip	5.60	4.48	3.78
AD829JNZ	AD829JNZ-ND	Video Op Amp Low Noise HS*	8-Dip	5.60	4.48	3.78
AD829JR	AD829JR-ND	Video Op Amp Low Noise HS	8-SOIC	5.60	4.48	3.78
AD829JR-REEL7	AD829JR-REEL7TR-ND	Video Op Amp Low Noise HS	8-SOIC	2667.00/750		
AD829JRZ	AD829JRZ-ND	Video Op Amp Low Noise HS*	8-SOIC	5.60	4.48	3.78
AD843JRZ-16	AD843JRZ-16-ND	34MHz, CBFET Fast Settling Op Amp*	16-SOIC	9.42	7.54	6.36
AD844ANZ	AD844ANZ-ND	Op Amp Mono 60MHz* ***NEW!***	8-Dip	5.82	4.66	3.93
AD844JR-16	AD844JR-16-ND	Op Amp Mono 60MHz	16-SOIC	6.68	5.35	4.51
AD844JRZ-16	AD844JRZ-16-ND	Op Amp Mono 60MHz*	16-SOIC	6.68	5.35	4.51
AD847AQ	AD847AQ-ND	Op Amp Mono 50MHz HS	8-CDip	7.60	6.08	5.13
AD847AR	AD847AR-ND	Op Amp Mono 50MHz HS	8-SOIC	5.82	4.66	3.93
AD847ARZ	AD847ARZ-ND	Op Amp Mono 50MHz HS* ***NEW!***	8-SOIC	5.82	4.66	3.93
AD847JN	AD847JN-ND	Op Amp Mono 50MHz HS	8-Dip	5.28	4.23	3.57
AD847JNZ	AD847JNZ-ND	Op Amp Mono 50MHz HS*	8-Dip	5.28	4.23	3.57
AD847JRZ	AD847JRZ-ND	Op Amp Mono 50MHz HS* ***NEW!***	8-SOIC	6.60	5.28	4.46
AD848JN	AD848JN-ND	Op Amp Mono 175MHz HS	8-Dip	5.34	4.28	3.61
AD848JNZ	AD848JNZ-ND	Op Amp Mono 175MHz HS*	8-Dip	5.34	4.28	3.61
AD848JRZ	AD848JRZ-ND	Op Amp Mono 175MHz HS*	8-SOIC	5.34	4.28	3.61
AD8000YCPZ-R2	AD8000YCPZ-R2CT-ND	Op Amp 1.5GHz Ultrahigh HS* ***NEW!***	8-LFCSP	4.73	3.78	2.94
AD8000YCPZ-R2	AD8000YCPZ-R2TR-ND	Op Amp 1.5GHz Ultrahigh HS* ***NEW!***	8-LFCSP	698.25/250		
AD8000YRDZ	AD8000YRDZ-ND	Op Amp 1.5GHz Ultrahigh HS* ***NEW!***	8-SOIC	4.07	3.26	2.54
AD8001AN	AD8001AN-ND	Current-Feedback Amp, 800MHz	8-Dip	6.50	5.20	4.39
AD8001ANZ	AD8001ANZ-ND	Current-Feedback Amp, 800MHz*	8-Dip	6.50	5.20	4.39
AD8001AR	AD8001AR-ND	Current-Feedback Amp, 800MHz	8-SOIC	6.50	5.20	4.39
AD8001ART-REEL7	AD8001ART-REEL7CT-ND	Current-Feedback Amp, 800MHz	SOT-23-5	3.04	2.43	1.89
AD8001ART-REEL7	AD8001ART-REEL7TR-ND	Current-Feedback Amp, 800MHz	SOT-23-5	5103.00/3,000		
AD8001ARTZ-REEL7	AD8001ARTZREEL7CT-ND	Current-Feedback Amp, 800MHz*	SOT-23-5	3.04	2.43	1.89
AD8001ARTZ-REEL7	AD8001ARTZREEL7TR-ND	Current-Feedback Amp, 800MHz*	SOT-23-5	5103.00/3,000		
AD8001ARTZ-R2	AD8001ARTZ-R2CT-ND	Current-Feedback Amp, 800MHz*	SOT-23-5	3.04	2.43	1.89
AD8001ARTZ-R2	AD8001ARTZ-R2TR-ND	Current-Feedback Amp, 800MHz*	SOT-23-5	449.00/250		
AD8002AR	AD8002AR-ND	Current-Feedback Amp Dual, 600MHz	8-SOIC	6.48	5.19	4.38
AD8002ARZ	AD8002ARZ-ND	Current-Feedback Amp Dual, 600MHz*	8-SOIC	6.48	5.19	4.38
AD8002ARMZ	AD8002ARMZ-ND	Current-Feedback Amp Dual, 600MHz*	8-MSOP	5.68	4.55	3.84
AD8004ANZ	AD8004ANZ-ND	Current-Feedback Amp Quad*	14-Dip	9.30	7.44	6.28
AD8004AR-14	AD8004AR-14-ND	Current-Feedback Amp Quad	14-SOIC	9.30	7.44	6.28
AD8004ARZ-14	AD8004ARZ-14-ND	Current-Feedback Amp Quad*	14-SOIC	9.30	7.44	6.28
AD8007AKS-REEL7	AD8007AKS-REEL7CT-ND	Current-Feedback Amp, 650MHz	SC70-5	2.68	2.15	1.67
AD8007AKS-REEL7	AD8007AKS-REEL7TR-ND	Current-Feedback Amp, 650MHz	SC70-5	4497.00/3,000		
AD8007AR	AD8007AR-ND	Current-Feedback Amp, 650MHz	8-SOIC	3.15	2.52	1.96
AD8007ARZ	AD8007ARZ-ND	Current-Feedback Amp, 650MHz*	8-SOIC	3.15	2.52	1.96
AD8008ARZ	AD8008ARZ-ND	Current-Feedback Amp Dual*	8-SOIC	5.27	4.22	3.28
AD8008ARM	AD8008ARM-ND	Current-Feedback Amp Dual	8-MSOP	5.27	4.22	3.28
AD8008ARMZ	AD8008ARMZ-ND	Current-Feedback Amp Dual*	8-MSOP	5.27	4.22	3.28
AD8009AR	AD8009AR-ND	Current-Feedback Amp 1GHz	8-SOIC	4.21	3.37	2.62
AD8009ARZ	AD8009ARZ-ND	Current-Feedback Amp 1GHz*	8-SOIC	4.21	3.37	2.62
AD8009AR-REEL7	AD8009AR-REEL7CT-ND	Current-Feedback Amp 1GHz	8-SOIC	4.21	3.37	2.62
AD8009AR-REEL7	AD8009AR-REEL7TR-ND	Current-Feedback Amp 1GHz	8-SOIC	1823.25/750		
AD8009JRT-REEL7	AD8009JRT-REEL7CT-ND	Current-Feedback Amp 1GHz	SOT-23-5	3.58	2.87	2.23
AD8009JRT-REEL7	AD8009JRT-REEL7TR-ND	Current-Feedback Amp 1GHz	SOT-23-5	6009.00/3,000		
AD8009JRTZ-R2	AD8009JRTZ-R2CT-ND	Current-Feedback Amp 1GHz*	SOT-23-5	5.04	4.04	3.14
AD8009JRTZ-R2	AD8009JRTZ-R2TR-ND	Current-Feedback Amp 1GHz*	SOT-23-5	744.75/250		
AD8010AN	AD8010AN-ND	Op Amp Low Power HS	8-Dip	6.12	4.90	4.14
AD8010AR	AD8010AR-ND	Op Amp Low Power HS	8-SOIC	6.12	4.90	4.14
AD8010ARZ	AD8010ARZ-ND	Op Amp Low Power HS* ***NEW!***	8-SOIC	6.12	4.90	4.14
AD8011AN	AD8011AN-ND	Current-Feedback Amp, 300MHz	8-Dip	4.86	3.89	3.03
AD8011ANZ	AD8011ANZ-ND	Current-Feedback Amp, 300MHz*	8-Dip	4.86	3.89	3.03

* ***RoHS Compliant***

(Continued)

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8011AR	AD8011AR-ND	Current-Feedback Amp, 300MHz	8-SOIC	4.86	3.89	3.03
AD8011ARZ	AD8011ARZ-ND	Current-Feedback Amp, 300MHz*	8-SOIC	4.86	3.89	3.03
AD8011AR-REEL7	AD8011AR-REEL7CT-ND	Current-Feedback Amp, 300MHz	8-SOIC	4.86	3.89	3.03
AD8011AR-REEL7	AD8011AR-REEL7TR-ND	Current-Feedback Amp, 300MHz	8-SOIC	2106.00/750		
AD8012AR	AD8012AR-ND	Current-Feedback Dual Amp, 350MHz	8-SOIC	5.54	4.43	3.45
AD8012ARZ	AD8012ARZ-ND	Current-Feedback Dual Amp, 350MHz*	8-SOIC	5.54	4.43	3.45
AD8013AR-14	AD8013AR-14-ND	Op Amp Single Supply	14-SOIC	9.70	7.76	6.55
AD8021ARZ	AD8021ARZ-ND	Volt.-Feedback Amp, 200MHz HS* **NEW!**	8-SOIC	3.42	2.74	2.13
AD8021ARM	AD8021ARM-ND	Volt.-Feedback Amp, 200MHz HS	8-MSOP	3.42	2.74	2.13
AD8021ARMZ	AD8021ARMZ-ND	Volt.-Feedback Amp, 200MHz HS*	8-MSOP	3.42	2.74	2.13
AD8022ARZ	AD8022ARZ-ND	Op Amp Dual HS Low Noise* **NEW!**	8-SOIC	5.10	4.08	3.45
AD8024AR	AD8024AR-ND	Amp Quad 24V 350MHz	16-SOIC	8.08	6.47	5.46
AD8024ARZ	AD8024ARZ-ND	Amp Quad 24V 350MHz*	16-SOIC	8.08	6.47	5.46
AD8027ARZ	AD8027ARZ-ND	Op Amp R-R In/Out HS*	8-SOIC	3.15	2.52	1.96
AD8027ART-R2	AD8027ART-R2CT-ND	Op Amp R-R In/Out HS	SOT-23-6	2.70	2.16	1.68
AD8027ART-R2	AD8027ART-R2TR-ND	Op Amp R-R In/Out HS	SOT-23-6	399.00/250		
AD8027ARTZ-R2	AD8027ARTZ-R2CT-ND	Op Amp R-R In/Out HS* **NEW!**	SOT-23-6	2.70	2.16	1.68
AD8027ARTZ-R2	AD8027ARTZ-R2TR-ND	Op Amp R-R In/Out HS* **NEW!**	SOT-23-6	399.00/250		
AD8027ART-REEL7	AD8027ART-REEL7CT-ND	Op Amp R-R In/Out HS	SOT-23-6	2.68	2.15	1.67
AD8027ART-REEL7	AD8027ART-REEL7TR-ND	Op Amp R-R In/Out HS	SOT-23-6	4497.00/3,000		
AD8028ARM	AD8028ARM-ND	Op Amp R-R In/Out HS	10-MSOP	5.00	4.00	3.11
AD8028ARMZ	AD8028ARMZ-ND	Op Amp R-R In/Out HS*	10-MSOP	5.00	4.00	3.11
AD8028ARZ	AD8028ARZ-ND	Op Amp R-R In/Out HS*	8-SOIC	5.00	4.00	3.11
AD8029AKS-R2	AD8029AKS-R2CT-ND	Op Amp R-R In/Out HS LP	SC70-6	2.70	2.16	1.68
AD8029AKS-R2	AD8029AKS-R2TR-ND	Op Amp R-R In/Out HS LP	SC70-6	399.00/250		
AD8029AKSZ-R2	AD8029AKSZ-R2CT-ND	Op Amp R-R In/Out HS LP*	SC70-6	2.70	2.16	1.68
AD8029AKSZ-R2	AD8029AKSZ-R2TR-ND	Op Amp R-R In/Out HS LP*	SC70-6	399.00/250		
AD8030AR	AD8030AR-ND	Op Amp R-R In/Out HS LP	8-SOIC	3.17	2.54	1.98
AD8030ARZ	AD8030ARZ-ND	Op Amp R-R In/Out HS LP*	8-SOIC	3.17	2.54	1.98
AD8030ARJZ-REEL7	AD8030ARJZ-REEL7CT-ND	Op Amp Dual R-R In/Out HS LP*	SOT-23-8	2.70	2.16	1.68
AD8030ARJZ-REEL7	AD8030ARJZ-REEL7TR-ND	Op Amp Dual R-R In/Out HS LP*	SOT-23-8	4536.00/3,000		
AD8031ARZ	AD8031ARZ-ND	Voltage-Feedback Amp Single R-R* **NEW!**	8-SOIC	2.86	2.29	1.78
AD8031ARTZ-REEL7	AD8031ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single R-R*	SOT-23-5	2.52	2.02	1.57
AD8031ARTZ-REEL7	AD8031ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single R-R*	SOT-23-5	4233.00/3,000		
AD8031BN	AD8031BN-ND	Voltage-Feedback Amp Single R-R	8-Dip	4.79	3.84	2.99
AD8031BNZ	AD8031BNZ-ND	Voltage-Feedback Amp Single R-R*	8-Dip	4.79	3.84	2.99
AD8031BR	AD8031BR-ND	Voltage-Feedback Amp Single R-R	8-SOIC	4.79	3.84	2.99
AD8031BRZ	AD8031BRZ-ND	Voltage-Feedback Amp Single R-R*	8-SOIC	4.79	3.84	2.99
AD8032ANZ	AD8032ANZ-ND	Voltage-Feedback Amp Dual R-R*	8-Dip	4.43	3.55	2.76
AD8032AR	AD8032AR-ND	Voltage-Feedback Amp Dual R-R	8-SOIC	4.43	3.55	2.76
AD8032ARMZ	AD8032ARMZ-ND	Voltage-Feedback Amp Dual R-R* **NEW!**	8-MSOP	4.43	3.55	2.76
AD8032ARZ	AD8032ARZ-ND	Voltage-Feedback Amp Dual R-R*	8-SOIC	4.43	3.55	2.76
AD8032BNZ	AD8032BNZ-ND	Voltage-Feedback Amp Dual R-R*	8-Dip	6.18	4.95	4.18
AD8032BR	AD8032BR-ND	Voltage-Feedback Amp Dual R-R	8-SOIC	6.18	4.95	4.18
AD8032BRZ-REEL7	AD8032BRZ-REEL7CT-ND	Voltage-Feedback Amp Dual R-R*	8-SOIC	6.18	4.95	4.18
AD8032BRZ-REEL7	AD8032BRZ-REEL7TR-ND	Voltage-Feedback Amp Dual R-R*	8-SOIC	2943.00/750		
AD8033AKS-R2	AD8033AKS-R2CT-ND	Voltage-Feedback Amp Single	SC-70	3.78	3.03	2.36
AD8033AKS-R2	AD8033AKS-R2TR-ND	Voltage-Feedback Amp Single	SC-70	558.50/250		
AD8033AR	AD8033AR-ND	Voltage-Feedback Amp Single	8-SOIC	2.81	2.25	1.75
AD8033ARZ	AD8033ARZ-ND	Voltage-Feedback Amp Single*	8-SOIC	2.81	2.25	1.75
AD8034ARZ	AD8034ARZ-ND	Voltage-Feedback Amp Dual*	8-SOIC	4.21	3.37	2.62
AD8036AR	AD8036AR-ND	Voltage-Feedback Clamp Amp	8-SOIC	8.40	7.56	6.71
AD8037AN	AD8037AN-ND	Volt.-Feedback Amp Output Clamping	8-Dip	9.70	7.76	6.55
AD8037AR	AD8037AR-ND	Volt.-Feedback Amp Output Clamping	8-SOIC	9.70	7.76	6.55
AD8037ARZ	AD8037ARZ-ND	Volt.-Feedback Amp Output Clamping* **NEW!**	8-SOIC	9.70	7.76	6.55
AD8038AR	AD8038AR-ND	Voltage-Feedback Amp 350MHz LP	8-SOIC	2.25	1.80	1.40
AD8038ARZ	AD8038ARZ-ND	Voltage-Feedback Amp 350MHz LP*	8-SOIC	2.25	1.80	1.40
AD8039AR	AD8039AR-ND	Voltage-Feedback Amp 350MHz LP	8-SOIC	3.17	2.54	1.98
AD8039ARZ	AD8039ARZ-ND	Voltage-Feedback Amp 350MHz LP*	8-SOIC	3.17	2.54	1.98
AD8039ART-REEL7	AD8039ART-REEL7CT-ND	Voltage-Feedback Amp 350MHz LP	SOT-23-8	2.70	2.16	1.68
AD8039ART-REEL7	AD8039ART-REEL7TR-ND	Voltage-Feedback Amp 350MHz LP	SOT-23-8	4536.00/3,000		
AD8039ARTZ-REEL7	AD8039ARTZREEL7CT-ND	Volt.-Feedback Amp 350MHz LP*	SOT-23-8	2.70	2.16	1.68
AD8039ARTZ-REEL7	AD8039ARTZREEL7TR-ND	Volt.-Feedback Amp 350MHz LP*	SOT-23-8	4536.00/3,000		
AD8040AR	AD8040AR-ND	Low Power, HS, R-R In/Out Amp	14-SOIC	4.23	3.39	2.64
AD8040ARZ	AD8040ARZ-ND	Low Power, HS, R-R In/Out Amp*	14-SOIC	4.23	3.39	2.64
AD8041AN	AD8041AN-ND	Volt.-Feedback Amp with Disable	8-Dip	3.76	3.01	2.34
AD8041ANZ	AD8041ANZ-ND	Volt.-Feedback Amp w/Disable* **NEW!**	8-Dip	3.76	3.01	2.34
AD8041ARZ	AD8041ARZ-ND	Volt.-Feedback Amp w/Disable* **NEW!**	8-SOIC	3.76	3.01	2.34
AD8042ARZ	AD8042ARZ-ND	Volt.-Feedback Amp Dual R-R* **NEW!**	8-SOIC	5.13	4.11	3.20
AD8047AR	AD8047AR-ND	Voltage-Feedback Amp R-R	8-SOIC	4.86	3.89	3.03
AD8047ARZ	AD8047ARZ-ND	Voltage-Feedback Amp R-R* **NEW!**	8-SOIC	4.86	3.89	3.03
AD8051ARZ	AD8051ARZ-ND	Voltage-Feedback Amp Single HS* **NEW!**	8-SOIC	2.13	1.70	1.28
AD8051ART-REEL7	AD8051ART-REEL7CT-ND	Voltage-Feedback Amp Single HS	SOT-23-5	2.13	1.70	1.28
AD8051ART-REEL7	AD8051ART-REEL7TR-ND	Voltage-Feedback Amp Single HS	SOT-23-5	3264.00/3,000		
AD8052ARZ	AD8052ARZ-ND	Volt.-Feedback Amp Dual HS* **NEW!**	8-SOIC	3.65	2.92	2.27
AD8052ARM	AD8052ARM-ND	Volt.-Feedback Amp Dual HS	8-MSOP	3.65	2.92	2.27
AD8052ARMZ	AD8052ARMZ-ND	Volt.-Feedback Amp Dual HS* **NEW!**	8-MSOP	3.65	2.92	2.27
AD8054AR	AD8054AR-ND	Voltage-Feedback Amp Quad HS	14-SOIC	5.76	4.61	3.89
AD8054AR-REEL7	AD8054AR-REEL7CT-ND	Voltage-Feedback Amp Quad HS	14-SOIC	5.76	4.61	3.89
AD8054AR-REEL7	AD8054AR-REEL7TR-ND	Voltage-Feedback Amp Quad HS	14-SOIC	2743.50/750		
AD8054ARZ	AD8054ARZ-ND	Voltage-Feedback Amp Quad HS* **NEW!**	14-SOIC	5.76	4.61	3.89
AD8054ARUZ	AD8054ARUZ-ND	Voltage-Feedback Amp Quad HS* **NEW!**	14-TSSOP	6.06	4.85	4.10
AD8055AN	AD8055AN-ND	Voltage-Feedback Amp Single	8-Dip	2.15	1.72	1.29
AD8055AR	AD8055AR-ND	Voltage-Feedback Amp Single	8-SOIC	2.15	1.72	1.29
AD8055ARZ	AD8055ARZ-ND	Voltage-Feedback Amp Single*	8-SOIC	2.15	1.72	1.29
AD8055ART-REEL7	AD8055ART-REEL7CT-ND	Voltage-Feedback Amp Single	SOT-23-5	1.83	1.46	1.10
AD8055ARTZ-REEL7	AD8055ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single*	SOT-23-5	1.83	1.46	1.10
AD8055ARTZ-REEL7	AD8055ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single*	SOT-23-5	2802.00/3,000		
AD8056AR	AD8056AR-ND	Voltage-Feedback Amp Dual	8-SOIC	3.65	2.92	2.27
AD8056AR-REEL7	AD8056AR-REEL7TR-ND	Voltage-Feedback Amp Dual	8-SOIC	1579.50/750		
AD8056ARMZ	AD8056ARMZ-ND	Voltage-Feedback Amp Dual* **NEW!**	8-MSOP	3.65	2.92	2.27
AD8057AR	AD8057AR-ND	Voltage-Feedback Amp Single	8-SOIC	2.15	1.72	1.29
AD8058ARZ	AD8058ARZ-ND	Voltage-Feedback Amp Dual* **NEW!**	8-SOIC	3.65	2.92	2.27
AD8061ART-REEL7	AD8061ART-REEL7CT-ND	Voltage-Feedback Amp R-R	SOT-23-5	1.83	1.46	1.10
AD8061ART-REEL7	AD8061ART-REEL7TR-ND	Voltage-Feedback Amp R-R	SOT-23-5	2802.00/3,000		
AD8062AR	AD8062AR-ND	Volt.-Feedback Amp R-R Out	8-SOIC	3.65	2.92	2.27
AD8062ARZ	AD8062ARZ-ND	Volt.-Feedback Amp R-R Out* **NEW!**	8-SOIC	3.65	2.92	2.27

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8062ARM	AD8062ARM-ND	Volt.-Feedback Amp R-R Out	8-MSOP	3.65	2.92	2.27
AD8062ARMZ-R7	AD8062ARMZ-R7CT-ND	Volt.-Feedback Amp R-R Out* **NEW!**	8-MSOP	3.65	2.92	2.27
AD8062ARMZ-R7	AD8062ARMZ-R7TR-ND	Volt.-Feedback Amp R-R Out* **NEW!**	8-MSOP	2066.00/1,000		
AD8065ARZ	AD8065ARZ-ND	Volt.-Feedback Amp Single HS* **NEW!**	8-SOIC	4.21	3.37	2.62
AD8065ARTZ-REEL7	AD8065ARTZ-REEL7CT-ND	Voltage-Feedback Amp Single HS* **NEW!**	SOT-23	3.58	2.87	2.23
AD8065ARTZ-REEL7	AD8065ARTZ-REEL7TR-ND	Voltage-Feedback Amp Single HS* **NEW!**	SOT-23	6009.00/3,000		
AD8066AR	AD8066AR-ND	Volt.-Feedback Amp Dual HS	8-SOIC	5.38	4.31	3.64
AD8066ARZ	AD8066ARZ-ND	Volt.-Feedback Amp Dual HS* **NEW!**	8-SOIC	5.38	4.31	3.64
AD8066ARMZ	AD8066ARMZ-ND	Volt.-Feedback Amp Dual HS* **NEW!**	8-MSOP	5.38	4.31	3.64
AD8067ART-R2	AD8067ART-R2CT-ND	Amp FET-In High Performance	SOT-23-5	6.46	5.17	4.37
AD8067ART-R2	AD8067ART-R2TR-ND	Amp FET-In High Performance	SOT-23-5	1049.75/250		
AD8067ART-REEL7	AD8067ART-REEL7CT-ND	Amp FET-In High Performance	SOT-23-5	5.15	4.13	3.21
AD8067ART-REEL7	AD8067ART-REEL7TR-ND	Amp FET-In High Performance	SOT-23-5	8655.00/3,000		
AD8091AR	AD8091AR-ND	Voltage-Feedback Amp Single R-R	8-SOIC	2.03	1.62	1.22
AD8092AR	AD8092AR-ND	Voltage-Feedback Amp Dual R-R	8-SOIC	2.63	2.10	1.58
AD8092ARMZ	AD8092ARMZ-ND	Voltage-Feedback Amp Dual R-R* **NEW!**	8-SOIC	2.36	1.89	1.47
AD8092ARZ	AD8092ARZ-ND	Voltage-Feedback Amp Dual R-R*	8-SOIC	2.63	2.10	1.58
AD8092ARZ-REEL7	AD8092ARZ-REEL7CT-ND	Voltage-Feedback Amp Dual R-R* **NEW!**	8-SOIC	2.36	1.89	1.47
AD8092ARZ-REEL7	AD8092ARZ-REEL7TR-ND	Voltage-Feedback Amp Dual R-R* **NEW!**	8-SOIC	1339.00/1,000		
AD8099ACP-R2	AD8099ACP-R2CT-ND	Voltage-Feedback HS Op Amp	8-LFCSP	5.60	4.48	3.78
AD8099ACP-R2	AD8099ACP-R2TR-ND	Voltage-Feedback HS Op Amp	8-LFCSP	910.00/250		
AD8099ACPZ-R2	AD8099ACPZ-R2-ND	Voltage-Feedback HS Op Amp*	8-LFCSP	5.60	4.48	3.78
AD8099ARD	AD8099ARD-ND	Voltage-Feedback HS Op Amp	8-SOIC	5.24	4.20	3.27
AD8099ARDZ	AD8099ARDZ-ND	Voltage-Feedback HS Op Amp*	8-SOIC	5.24	4.20	3.27
AD8132AR	AD8132AR-ND	Differential Amp 350MHz HS	8-SOIC	4.39	3.51	2.73
AD8132ARZ	AD8132ARZ-ND	Differential Amp 350MHz HS*	8-SOIC	4.39	3.51	2.73
AD8132ARMZ	AD8132ARMZ-ND	Differential Amp 350MHz HS* **NEW!**	8-MSOP	4.39	3.51	2.73
AD8137YR	AD8137YR-ND	Differential 12-Bit ADC Driver	8-SOIC	2.56	2.05	1.73
AD8137YRZ	AD8137YRZ-ND	Differential 12-Bit ADC Driver*	8-SOIC	2.56	2.05	1.73
AD8138ARZ	AD8138ARZ-ND	Diff. ADC Driver Low Distortion* **NEW!**	8-SOIC	8.50	6.80	5.74
AD8138ARMZ	AD8138ARMZ-ND	Diff. ADC Driver Low Distortion*	8-MSOP	8.50	6.80	5.74
AD8139ARD	AD8139ARD-ND	Differential LN R-R ADC Driver	8-SOIC	8.44	6.76	5.70
AD8139ARDZ	AD8139ARDZ-ND	Differential LN R-R ADC Driver*	8-SOIC	8.44	6.76	5.70
AD8351ARM	AD8351ARM-ND	Diff. RF/IF Amp Low Distortion	10-MSOP	6.60	5.28	4.46
AD8351ARMZ	AD8351ARMZ-ND	Diff. RF/IF Amp Low Distortion*	10-MSOP	6.60	5.28	4.46
AD8351-EVAL	AD8351-EVAL-ND	Evaluation Board for AD8351	—	118.80	—	—
AD8644AR	AD8644AR-ND	Op Amp 18V Quad 5.5MHz	14-SOIC	4.75	3.80	2.96
AD8644ARZ	AD8644ARZ-ND	Op Amp 18V Quad 5.5MHz*	14-SOIC	4.75	3.80	2.96
AD9631ARZ	AD9631ARZ-ND	Voltage-Feedback Op Amp WB*	8-SOIC	8.66	6.93	5.85
ADA4850-1YCPZ-R2	ADA4850-1YCPZ-R2CT-ND	Op Amp HS R-R Out* **NEW!**	8-LFCSP	1.73	1.38	1.04
ADA4850-1YCPZ-R2	ADA4850-1YCPZ-R2TR-ND	Op Amp HS R-R Out* **NEW!**	8-LFCSP	241.50/250		
ADA4850-2YCPZ-R2	ADA4850-2YCPZ-R2CT-ND	Op Amp HS R-R Out* **NEW!**	16-LFCSP	2.15	1.72	1.29
ADA4850-2YCPZ-R2	ADA4850-2YCPZ-R2TR-ND	Op Amp HS R-R Out* **NEW!**	16-LFCSP	301.00/250		
OP42FZ	OP42FZ-ND	Op Amp Precision HS Fast Set*	8-CDip	6.46	5.17	4.37
OP42GP	OP42GP-ND	Op Amp Precision HS Fast Set	8-Dip	4.37	3.50	2.72
OP42GPZ	OP42GPZ-ND	Op Amp Precision HS Fast Set* **NEW!**	8-Dip	4.37	3.50	2.72
OP42GS	OP42GS-ND	Op Amp Precision HS Fast Set	8-SOIC	4.37	3.50	2.72
OP42GSZ	OP42GSZ-ND	Op Amp Precision HS Fast Set*	8-SOIC	4.37	3.50	2.72
OP162GS	OP162GS-ND	Op Amp 15MHz R-R	8-SOIC	3.20	2.56	1.99
OP162GSZ	OP162GSZ-ND	Op Amp 15MHz R-R*	8-SOIC	3.20	2.56	1.99
OP249AZ	OP249AZ-ND	Op Amp Dual JFET Precision HS*	8-CDip	16.31	14.69	13.03
OP249FZ	OP249FZ-ND	Op Amp Dual JFET Precision HS*	8-CDip	8.84	7.08	5.97
OP249GP	OP249GP-ND	Op Amp Dual JFET Precision HS	8-Dip	3.53	2.83	2.20
OP249GPZ	OP249GPZ-ND	Op Amp Dual JFET Precision HS*	8-Dip	3.53	2.83	2.20
OP249GS	OP249GS-ND	Op Amp Dual JFET Precision HS	8-SOIC	3.53	2.83	2.20
OP249GSZ	OP249GSZ-ND	Op Amp Dual JFET Precision HS*	8-SOIC	3.53	2.83	2.20
OP271GPZ	OP271GPZ-ND	Op Amp Dual High Speed*	8-Dip	5.11	4.09	3.18
OP462GSZ	OP462GSZ-ND	Op Amp Quad R-R HS*	14-SOIC	6.92	5.54	4.68
OP467GP	OP467GP-ND	Op Amp Quad Precision HS	14-Dip	10.66	9.60	8.52
OP467GPZ	OP467GPZ-ND	Op Amp Quad Precision HS*	14-Dip	10.66	9.60	8.52
OP467GSZ	OP467GSZ-ND	Op Amp Quad Precision HS*	16-SOIC	11.48	10.34	9.17
OP482GPZ	OP482GPZ-ND	Op Amp Quad JFET HS LP*	14-Dip	4.21	3.37	2.62
OP482GSZ	OP482GSZ-ND	Op Amp Quad JFET HS LP*	14-SOIC	3.78	3.03	2.36

Instrumentation

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD521JD	AD521JD-ND	Instrumentation Amp Prog. Gain	14-Dip	29.66	27.68	25.71
AD524AD	AD524AD-ND	Instrumentation Amp Precision	16-Dip	16.08	15.01	13.94
AD524AR-16	AD524AR-16-ND	Instrumentation Amp Prec.	16-SOIC	12.25	11.03	9.78
AD524ARZ-16	AD524ARZ-16-ND	Instrumentation Amp Prec.* **NEW!**	16-SOIC	12.25	11.03	9.78
AD524BD	AD524BD-ND	Instrumentation Amp Precision	16-Dip	25.23	23.55	21.87
AD524CD	AD524CD-ND	Instrumentation Amp Precision	16-Dip	40.59	37.89	35.18
AD526BD	AD526BD-ND	Gain Amp Software Programmable	16-Dip	16.16	15.08	14.01
AD526JN	AD526JN-ND	Gain Amp Software Programmable	16-Dip	9.10	8.19	7.27
AD526JNZ	AD526JNZ-ND	Gain Amp Software Programmable*	16-Dip	9.10	8.19	7.27
AD595AD	AD595AD-ND	Thermocouple Instrumentation Amp	14-CDip	17.84	16.65	15.46
AD595CD	AD595CD-ND	Thermocouple Instrumentation Amp	14-CDip	27.23	25.41	23.60
AD620AN	AD620AN-ND	Instrumentation Amp LP	8-Dip	6.62	5.30	4.47
AD620ANZ	AD620ANZ-ND	Instrumentation Amp LP*	8-Dip	6.62	5.30	4.47
AD620AR-REEL7	AD620AR-REEL7TR-ND	Instrumentation Amp LP	8-SOIC	3153.00/750		
AD620ARZ	AD620ARZ-ND	Instrumentation Amp LP* **NEW!**	8-SOIC	6.62	5.30	4.47
AD620BN	AD620BN-ND	Instrumentation Amp LP	8-Dip	9.94	7.96	6.71
AD620BNZ	AD620BNZ-ND	Instrumentation Amp LP*	8-Dip	9.94	7.96	6.71
AD620BRZ	AD620BRZ-ND	Instrumentation Amp LP* **NEW!**	8-SOIC	9.94	7.96	6.71
AD620BR-REEL7	AD620BR-REEL7CT-ND	Instrumentation Amp LP	8-SOIC	9.94	7.96	6.71
AD620BR-REEL7	AD620BR-REEL7TR-ND	Instrumentation Amp LP	8-SOIC	4734.00/750		
AD621AN	AD621AN-ND	Instrumentation Amp LP Low Drift	8-Dip	7.74	6.20	5.23
AD621ANZ	AD621ANZ-ND	Instrumentation Amp LP Low Drift*	8-Dip	7.74	6.20	5.23
AD621AR	AD621AR-ND	Instrumentation Amp LP Low Drift	8-SOIC	7.74	6.20	5.23
AD621ARZ	AD621ARZ-ND	Instrumentation Amp LP Low Drift*	8-SOIC	7.74	6.20	5.23
AD621BN	AD621BN-ND	Instrumentation Amp LP Low Drift	8-Dip	9.68	8.72	7.73
AD621BNZ	AD621BNZ-ND	Instrumentation Amp LP Low Drift*	8-Dip	9.68	8.72	7.73
AD621BR	AD621BR-ND	Instrumentation Amp LP Low Drift	8-SOIC	9.68	8.72	7.73
AD621BRZ	AD621BRZ-ND	Instrumentation Amp LP Low Drift*	8-SOIC	9.68	8.72	7.73
AD622AN	AD622AN-ND	Instrumentation Amp	8-Dip	5.13	4.11	3.20
AD622ANZ	AD622ANZ-ND	Instrumentation Amp*	8-Dip	5.13	4.11	3.20

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD622AR	AD622AR-ND	Instrumentation Amp	8-SOIC	5.13	4.11	3.20
AD622ARZ	AD622ARZ-ND	Instrumentation Amp*	8-SOIC	5.13	4.11	3.20
AD622AR-REEL7	AD622AR-REEL7CT-ND	Instrumentation Amp	8-SOIC	5.13	4.11	3.20
AD622AR-REEL7	AD622AR-REEL7TR-ND	Instrumentation Amp	8-SOIC	2223.00/750		
AD623AN	AD623AN-ND	Instrumentation Amp R-R Out	8-Dip	4.10	3.28	2.55
AD623ANZ	AD623ANZ-ND	Instrumentation Amp R-R Out*	8-Dip	4.10	3.28	2.55
AD623AR	AD623AR-ND	Instrumentation Amp R-R Out	8-SOIC	3.49	2.79	2.17
AD623ARZ	AD623ARZ-ND	Instrumentation Amp R-R Out*	8-SOIC	3.49	2.79	2.17
AD623AR-REEL7	AD623AR-REEL7TR-ND	Instrumentation Amp R-R Out	8-SOIC	1976.00/1,000		
AD623ARMZ	AD623ARMZ-ND	Instrumentation Amp R-R Out* ***NEW!***	8 -MSOP	3.49	2.79	2.17
AD623BR	AD623BR-ND	Instrumentation Amp R-R Out	8-SOIC	5.64	4.52	3.81
AD623BRZ	AD623BRZ-ND	Instrumentation Amp R-R Out*	8-SOIC	5.64	4.52	3.81
AD624AD	AD624AD-ND	Instrumentation Amp Precision LN	16-Dip	19.32	18.04	16.75
AD624BD	AD624BD-ND	Instrumentation Amp Precision LN	16-Dip	31.65	29.54	27.43
AD624CD	AD624CD-ND	Instrumentation Amp Precision LN	16-Dip	47.42	44.26	41.10
AD625AD	AD625AD-ND	Instrumentation Amp Prog. Gain	16-Dip	16.23	15.15	14.07
AD625BD	AD625BD-ND	Instrumentation Amp Prog. Gain	16-Dip	27.44	25.61	23.78
AD625JN	AD625JN-ND	Instrumentation Amp Prog. Gain	16-Dip	12.53	11.28	10.01
AD625JNZ	AD625JNZ-ND	Instrumentation Amp Prog. Gain*	16-Dip	12.53	11.28	10.01
AD625KN	AD625KN-ND	Instrumentation Amp Prog. Gain	16-Dip	15.99	14.93	13.86
AD625KNZ	AD625KNZ-ND	Instrumentation Amp Prog. Gain*	16-Dip	15.99	14.93	13.86
AD626AN	AD626AN-ND	Diff. Amp True Single Supply	8-Dip	6.34	5.08	4.28
AD626ANZ	AD626ANZ-ND	Diff. Amp True Single Supply*	8-Dip	6.34	5.08	4.28
AD626BNZ	AD626BNZ-ND	Diff. Amp True Single Supply*	8-Dip	8.66	6.93	5.85
AD627AN	AD627AN-ND	Instrumentation Amp Single/ Dual R-R	8-Dip	5.42	4.34	3.66
AD627ANZ	AD627ANZ-ND	Instrumentation Amp Single/ Dual R-R*	8-Dip	5.42	4.34	3.66
AD627AR	AD627AR-ND	Instrumentation Amp Single/Dual R-R	8-SOIC	5.42	4.34	3.66
AD627ARZ	AD627ARZ-ND	Instrumentation Amp Single/ Dual R-R*	8-SOIC	5.42	4.34	3.66
AD627ARZ-R7	AD627ARZ-R7CT-ND	Instrumentation Amp Single/Dual R-R*	8-SOIC	5.42	4.34	3.66
AD627ARZ-R7	AD627ARZ-R7TR-ND	Instrumentation Amp Single/Dual R-R*	8-SOIC	3388.00/1,000		
AD627BR	AD627BR-ND	Instrumentation Amp Single/Dual R-R	8-SOIC	7.58	6.07	5.12
AD627BRZ	AD627BRZ-ND	Instrumentation Amp Single/Dual R-R* ***NEW!***	8-SOIC	7.58	6.07	5.12
AD628AR	AD628AR-ND	Diff. Amp High-Common Mode Voltage Programmable	8-SOIC	4.34	3.48	2.71
AD628ARZ	AD628ARZ-ND	Diff. Amp High-Common Mode Voltage Programmable*	8-SOIC	4.34	3.48	2.71
AD628ARM	AD628ARM-ND	Diff. Amp High-Common Mode Voltage Programmable	8-MSOP	4.34	3.48	2.71
AD628ARMZ	AD628ARMZ-ND	Diff. Amp High-Common Mode Voltage Programmable*	8-MSOP	4.34	3.48	2.71
AD629AN	AD629AN-ND	Diff. Amp High-Common Mode Voltage	8-Dip	6.02	4.82	4.07
AD629ANZ	AD629ANZ-ND	Diff. Amp High-Common Mode Voltage*	8-Dip	6.02	4.82	4.07
AD629AR	AD629AR-ND	Diff. Amp High-Common Mode Volt.	8-SOIC	6.02	4.82	4.07
AD629ARZ	AD629ARZ-ND	Diff. Amp High-Common Mode Volt.*	8-SOIC	6.02	4.82	4.07
AD629BN	AD629BN-ND	Diff. Amp High-Common Mode Volt.	8-Dip	9.30	7.44	6.28
AD629BNZ	AD629BNZ-ND	Diff. Amp High-Common Mode Volt.*	8-Dip	9.30	7.44	6.28
AD629BR	AD629BR-ND	Diff. Amp High-Common Mode Volt.	8-SOIC	9.30	7.44	6.28
AD629BRZ	AD629BRZ-ND	Diff. Amp High-Common Mode Volt.*	8-SOIC	9.30	7.44	6.28
AD8225AR	AD8225AR-ND	Instrument Amp Precision Gain of 5	8-SOIC	6.96	5.57	4.70
AD8225ARZ	AD8225ARZ-ND	Instrument Amp Precision Gain of 5*	8-SOIC	6.96	5.57	4.70
AD8230YRZ	AD8230YRZ-ND	16V, R-R, 0-Drift, Precision Instrumentation Amp* ***NEW!***	8-SOIC	6.98	5.59	4.72
AD8553ARMZ-R2	AD8553ARMZ-R2CT-ND	1.8V-5V Auto Zero, In-Amp* ***NEW!***	10-MSOP	3.85	3.08	2.40
AD8553ARMZ-R2	AD8553ARMZ-R2TR-ND	1.8V-5V Auto Zero, In-Amp* ***NEW!***	10-MSOP	568.58/250		
AD8555ACPZ-R2	AD8555ACPZ-R2CT-ND	0-Drift, Digitally Programmable Sensor Signal Amp*	16-LFCSP	8.72	6.98	5.89
AD8555ACPZ-R2	AD8555ACPZ-R2TR-ND	0-Drift, Digitally Programmable Sensor Signal Amp*	16-LFCSP	1417.00/250		
AD8555AR	AD8555AR-ND	0-Drift, Digitally Programmable Sensor Signal Amp	8-SOIC	7.00	5.60	4.73
AD8555ARZ	AD8555ARZ-ND	0-Drift, Digitally Programmable Sensor Signal Amp*	8-SOIC	7.00	5.60	4.73
AMP01EX	AMP01EX-ND	Amp Instrument Precision LN	18-CDip	24.93	23.27	21.61
AMP01FX	AMP01FX-ND	Amp Instrument Precision LN	18-CDip	16.23	14.61	12.96
AMP01GS	AMP01GS-ND	Amp Instrument Precision LN	20-SOIC	14.58	13.13	11.64
AMP02EPZ	AMP02EPZ-ND	Amp Instrument Precision*	8-Dip	14.36	12.93	11.47
AMP02FPZ	AMP02FPZ-ND	Amp Instrument Precision*	8-Dip	8.61	7.76	6.88
AMP02FSZ	AMP02FSZ-ND	Amp Instrument Precision*	16-SOIC	8.61	7.76	6.88
AMP04EPZ	AMP04EPZ-ND	Amp Instrument Precision Single*	8-Dip	10.96	9.87	8.76
AMP04ESZ	AMP04ESZ-ND	Amp Instrument Precision Single*	8-SOIC	10.96	9.87	8.76
AMP04FPZ	AMP04FPZ-ND	Amp Instrument Precision Single*	8-Dip	9.38	7.51	6.34
AMP04FSZ	AMP04FSZ-ND	Amp Instrument Precision Single*	8-SOIC	9.38	7.51	6.34

Isolation

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD202JN	AD202JN-ND	Isolated Amp 2-Port 2KHz	38-Dip	33.60	31.36	29.12
AD202JY	AD202JY-ND	Isolated Amp 2-Port 2KHz	38-Sip	33.60	31.36	29.12
AD202KN	AD202KN-ND	Isolated Amp 2-Port 2KHz	38-Dip	38.40	35.84	33.28
AD202KY	AD202KY-ND	Isolated Amp 2-Port 2KHz	38-Sip	38.40	35.84	33.28
AD203SN	AD203SN-ND	Isolated Amp 10KHz	38-Dip	121.61	113.50	105.40
AD204JN	AD204JN-ND	Isolated Amp 4-Channel	10-Dip	37.50	35.00	32.50
AD204JY	AD204JY-ND	Isolated Amp 2-Port 5KHz	38-Sip	37.50	35.00	32.50
AD210AN	AD210AN-ND	Isolated Amp 3-Port 20KHz	12-Dip	73.50	68.60	63.70
AD210BN	AD210BN-ND	Isolated Amp 3-Port 20KHz	12-Dip	88.50	82.60	76.70
AD210JN	AD210JN-ND	Isolated Amp 3-Port 20KHz	12-Dip	66.00	61.60	57.20
AD215BY	AD215BY-ND	Isolated Amp 120KHz	12-Sip	75.00	70.00	65.00

Line Driver

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD815ARB-24	AD815ARB-24-ND	High Output Current Diff. Driver	24-SOIC	9.75	8.78	7.79
AD8016ARE	AD8016ARE-ND	Amp XDSL Line Driver	28-TSSOP	8.30	6.64	5.61
AD8018AR-REEL7	AD8018AR-REEL7CT-ND	XDSL Line Driver Rail-to-Rail	8-SOIC	5.90	4.72	3.99
AD8018AR-REEL7	AD8018AR-REEL7TR-ND	XDSL Line Driver Rail-to-Rail	8-SOIC	3688.00/1,000		
AD8018ARZ	AD8018ARZ-ND	XDSL Line Driver Rail-to-Rail* ***NEW!***	8-SOIC	5.90	4.72	3.99
AD45048AR	AD45048AR-ND	ADSL Line Driver Rail-to-Rail	8-SOIC	5.38	4.31	3.64

Log

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD606JN	AD606JN-ND	Demod Log Amp 50MHz 5V	16-Dip	35.42	33.06	30.70
AD606JNZ	AD606JNZ-ND	Demod Log Amp 50MHz 5V* ***NEW!***	16-Dip	35.42	33.06	30.70
AD640JN	AD640JN-ND	Logarithmic Amp Demod	20-Dip	42.51	39.68	36.85
AD641AP	AD641AP-ND	Logarithmic Amp Demod	20-PLCC	38.25	35.70	33.15
AD8304ARU	AD8304ARU-ND	Logarithmic Converter 160dB	14-TSSOP	20.63	19.25	17.88
AD8304ARUZ	AD8304ARUZ-ND	Logarithmic Converter 160dB*	14-TSSOP	20.63	19.25	17.88
AD8305ACP-R2	AD8305ACP-R2CT-ND	Logarithmic Converter 100dB	16-LFCSP	14.31	12.89	11.43
AD8305ACP-R2	AD8305ACP-R2TR-ND	Logarithmic Converter 100dB	16-LFCSP	2738.00/250		
AD8306ARZ	AD8306ARZ-ND	Logarithmic Amp 5-400MHz* ***NEW!***	16-SOIC	27.75	25.90	24.05
AD8307ANZ	AD8307ANZ-ND	Logarithmic Amp 92dB* ***NEW!***	8-Dip	11.83	10.65	9.45
AD8307ARZ	AD8307ARZ-ND	Logarithmic Amp 92dB* ***NEW!***	8-SOIC	11.83	10.65	9.45
AD8307AR-REEL7	AD8307AR-REEL7CT-ND	Logarithmic Amp 92dB	8-SOIC	11.83	10.65	9.45
AD8307AR-REEL7	AD8307AR-REEL7TR-ND	Logarithmic Amp 92dB	8-SOIC	6656.25/750		
AD8309ARUZ	AD8309ARUZ-ND	Logarithmic Amp 100dB* ***NEW!***	16-TSSOP	16.24	14.63	12.97
AD8309-EVAL	AD8309-EVAL-ND	Evaluation Board for AD8309	—	111.38	—	—
AD8310ARMZ	AD8310ARMZ-ND	Logarithmic Amp 95dB*	8-MSOP	9.90	7.92	6.69
AD8310-EVAL	AD8310-EVAL-ND	Evaluation Board for AD8310	—	111.38	—	—
AD8313ARM	AD8313ARM-ND	Logarithmic Amp 70dB	8-MSOP	18.38	17.15	15.93
AD8313ARMZ	AD8313ARMZ-ND	Logarithmic Amp 70dB*	8-MSOP	18.38	17.15	15.93
AD8313ARM-REEL7	AD8313ARM-REEL7CT-ND	Logarithmic Amp 70dB	8-MSOP	18.38	17.15	15.93
AD8313ARM-REEL7	AD8313ARM-REEL7TR-ND	Logarithmic Amp 70dB	8-MSOP	15129.00/1,000		
AD8313-EVAL	AD8313-EVAL-ND	Evaluation Board for AD8313	—	111.38	—	—
ADL5310ACP-R2	ADL5310ACP-R2CT-ND	Dual Logarithmic Converter, 120dB	24-LFCSP	18.69	17.45	16.20
ADL5310ACP-R2	ADL5310ACP-R2TR-ND	Dual Logarithmic Converter, 120dB	24-LFCSP	3971.75/250		

Low Noise

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD795JR	AD795JR-ND	Precision Op Amp FET LP LN	8-SOIC	6.60	5.28	4.46
AD795JRZ	AD795JRZ-ND	Precision Op Amp FET LP LN*	8-SOIC	6.60	5.28	4.46
AD797AN	AD797AN-ND	Op Amp Low Distortion LN	8-Dip	8.38	7.55	6.69
AD797ANZ	AD797ANZ-ND	Op Amp Low Distortion LN*	8-Dip	9.58	7.67	6.47
AD797ARZ	AD797ARZ-ND	Op Amp Low DIstortion LN* ***NEW!***	8-SOIC	9.58	7.67	6.47
AD797BRZ	AD797BRZ-ND	Op Amp Low DIstortion LN* ***NEW!***	8-SOIC	10.85	9.77	8.66
AD8350AR20	AD8350AR20-ND	Diff. Amp Low Distortion	8-SOIC	6.40	5.12	4.32
AD8350ARZ20-REEL7	AD8350ARZ20-REEL7CT-ND	Diff. Amp Low Distortion* ***NEW!***	8-SOIC	6.40	5.12	4.32
AD8350ARZ20-REEL7	AD8350ARZ20-REEL7TR-ND	Diff. Amp Low Distortion* ***NEW!***	8-SOIC	4000.00/1,000		
AD8350ARM15	AD8350ARM15-ND	Differential Amp Low Distortion	8-MSOP	6.40	5.12	4.32
AD8510AR	AD8510AR-ND	Precision Op Amp JFET Single LN	8-SOIC	2.59	2.07	1.61
AD8510ARZ	AD8510ARZ-ND	Precision Op Amp JFET Single LN*	8-SOIC	2.59	2.07	1.61
AD8510ARMZ-R2	AD8510ARMZ-R2CT-ND	Precision Op Amp JFET Single LN*	8-MSOP	3.11	2.49	1.94
AD8510ARMZ-R2	AD8510ARMZ-R2TR-ND	Precision Op Amp JFET Single LN*	8-MSOP	458.75/250		
AD8510BR	AD8510BR-ND	Precision Op Amp JFET Single LN	8-SOIC	5.49	4.40	3.42
AD8510BRZ	AD8510BRZ-ND	Precision Op Amp JFET Single LN*	8-SOIC	5.49	4.40	3.42
AD8512AR	AD8512AR-ND	Precision Op Amp JFET Dual LN	8-SOIC	4.10	3.28	2.55
AD8512ARZ	AD8512ARZ-ND	Precision Op Amp JFET Dual LN*	8-SOIC	3.89	3.12	2.43
AD8512ARM-REEL	AD8512ARM-REELCT-ND	Precision Op Amp JFET Dual LN	8-MSOP	3.31	2.65	2.06
AD8512ARMZ-REEL	AD8512ARMZ-REELCT-ND	Precision Op Amp JFET Dual LN*	8-MSOP	3.31	2.65	2.06
AD8512ARMZ-REEL	AD8512ARMZ-REELTR-ND	Precision Op Amp JFET Dual LN*	8-MSOP	5556.00/3,000		
AD8512BR	AD8512BR-ND	Precision Op Amp JFET Dual LN	8-SOIC	8.73	7.86	6.97
AD8512BRZ	AD8512BRZ-ND	Precision Op Amp JFET Dual LN*	8-SOIC	9.98	7.99	6.74
AD8610AR	AD8610AR-ND	Op Amp Precision JFET LN	8-SOIC	8.00	6.40	5.40
AD8610BR	AD8610BR-ND	Op Amp Precision JFET LN	8-SOIC	15.75	14.70	13.65
AD8651AR	AD8651AR-ND	Op Amp 50MHz Low Distortion LN	8-SOIC	2.81	2.25	1.75
AD8651ARZ	AD8651ARZ-ND	Op Amp 50MHz Low Distortion LN*	8-SOIC	2.81	2.25	1.75
AD8651ARM-R2	AD8651ARM-R2CT-ND	Op Amp 50MHz Low Distortion LN	8-MSOP	3.76	3.01	2.34
AD8651ARM-R2	AD8651ARM-R2TR-ND	Op Amp 50MHz Low Distortion LN	8-MSOP	555.25/250		
AD8651ARMZ-R2	AD8651ARMZ-R2CT-ND	Op Amp 50MHz Low Distortion LN*	8-MSOP	3.76	3.01	2.34
AD8651ARMZ-R2	AD8651ARMZ-R2TR-ND	Op Amp 50MHz Low Distortion LN*	8-MSOP	555.25/250		
AD8671AR	AD8671AR-ND	Op Amp Precision Single LN	8-SOIC	2.79	2.24	1.74
AD8671ARZ	AD8671ARZ-ND	Op Amp Precision Single LN*	8-SOIC	2.79	2.24	1.74
AD8671ARM-R2	AD8671ARM-R2CT-ND	Op Amp Precision Single LN	8-MSOP	3.35	2.69	2.09
AD8671ARM-R2	AD8671ARM-R2TR-ND	Op Amp Precision Single LN	8-MSOP	495.50/250		
AD8671ARMZ-R2	AD8671ARMZ-R2CT-ND	Op Amp Precision Single LN*	8-MSOP	3.35	2.69	2.09
AD8671ARMZ-R2	AD8671ARMZ-R2TR-ND	Op Amp Precision Single LN*	8-MSOP	495.50/250		
AD8672AR	AD8672AR-ND	Op Amp Precision Dual LN	8-SOIC	4.55	3.64	2.83
AD8672ARZ	AD8672ARZ-ND	Op Amp Precision Dual LN*	8-SOIC	4.55	3.64	2.83
AD8672ARM-R2	AD8672ARM-R2CT-ND	Op Amp Precision Dual LN	8-MSOP	5.45	4.36	3.39
AD8672ARM-R2	AD8672ARM-R2TR-ND	Op Amp Precision Dual LN	8-MSOP	804.75/250		
AD8672ARMZ-R2	AD8672ARMZ-R2CT-ND	Op Amp Precision Dual LN*	8-MSOP	5.45	4.36	3.39
AD8672ARMZ-R2	AD8672ARMZ-R2TR-ND	Op Amp Precision Dual LN*	8-MSOP	804.75/250		
AD8674AR	AD8674AR-ND	Op Amp Precision Quad LN	14-SOIC	7.60	6.08	5.13
AD8674ARZ	AD8674ARZ-ND	Op Amp Precision Quad LN*	14-SOIC	7.60	6.08	5.13
AD8674ARU	AD8674ARU-ND	Op Amp Precision Quad LN	14-TSSOP	7.60	6.08	5.13
AD8674ARUZ	AD8674ARUZ-ND	Op Amp Precision Quad LN*	14-TSSOP	7.60	6.08	5.13
AD8692ARMZ-R2	AD8692ARMZ-R2CT-ND	Op Amp Low Noise, CMOS R-R Out* ***NEW!***	8-MSOP	2.41	1.93	1.50
AD8692ARMZ-R2	AD8692ARMZ-R2TR-ND	Op Amp Low Noise, CMOS R-R Out* ***NEW!***	8-MSOP	355.75/250		
AD8692ARZ	AD8692ARZ-ND	Op Amp Low Noise, CMOS R-R Out* ***NEW!***	8-SOIC	2.13	1.70	1.28
OP27AZ	OP27AZ-ND	Op Amp Precision Low Noise*	8-CDip	30.18	28.17	26.16
OP27EPZ	OP27EPZ-ND	Op Amp Precision Low Noise*	8-Dip	5.29	4.23	3.29
OP27EZ	OP27EZ-ND	Op Amp Precision Low Noise*	8-CDip	14.34	12.92	11.46
OP27GPZ	OP27GPZ-ND	Op Amp Precision Low Noise*	8-Dip	2.30	1.84	1.43
OP27GS	OP27GS-ND	Op Amp Precision Low Noise	8-SOIC	2.41	1.93	1.50
OP27GSZ	OP27GSZ-ND	Op Amp Precision Low Noise*	8-SOIC	2.30	1.84	1.43
OP113ES	OP113ES-ND	Op Amp Single Supply LN	8-SOIC	6.82	5.46	4.61
OP113ESZ	OP113ESZ-ND	Op Amp Single Supply LN*	8-SOIC	6.82	5.46	4.61
OP113FSZ	OP113FSZ-ND	Op Amp Single Supply LN*	8-SOIC	3.96	3.17	2.47
OP213ESZ	OP213ESZ-ND	Op Amp Dual Single Supply Low Noise*	8-SOIC	10.81	9.74	8.64
OP213FPZ	OP213FPZ-ND	Op Amp Dual Single Supply LN*	8-Dip	4.70	3.77	2.93
OP213FSZ	OP213FSZ-ND	Op Amp Dual Single Supply LN*	8-SOIC	4.70	3.77	2.93
OP270EZ	OP270EZ-ND	Op Amp Dual Precision LN*	8-CDip	11.18	10.07	8.93
OP270FZ	OP270FZ-ND	Op Amp Dual Precision LN*	8-CDip	8.38	7.55	6.69
OP270GPZ	OP270GPZ-ND	Op Amp Dual Precision LN*	8-Dip	5.11	4.09	3.18
OP270GS	OP270GS-ND	Op Amp Dual Precision LN	16-SOIC	5.40	4.32	3.36
OP270GSZ	OP270GSZ-ND	Op Amp Dual Precision LN*	16-SOIC	5.40	4.32	3.36
OP413ES	OP413ES-ND	Op Amp Quad Low Drift	16-SOIC	16.36	14.73	13.07
OP413ESZ	OP413ESZ-ND	Op Amp Quad Low Drift*	16-SOIC	15.58	14.03	12.44
OP413FSZ	OP413FSZ-ND	Op Amp Quad Low Drift*	16-SOIC	9.02	7.22	6.09

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OP470EY	OP470EY-ND	Op Amp Quad Very Low Noise	14-Dip	16.31	14.69	13.03
OP470GPZ	OP470GPZ-ND	Op Amp Quad Very Low Noise*	14-Dip	7.16	5.73	4.84
OP470GSZ	OP470GSZ-ND	Op Amp Quad Very Low Noise*	16-SOIC	7.60	6.08	5.13
OP471EY	OP471EY-ND	Op Amp Quad High Speed LN	14-Dip	16.85	15.73	14.60
OP471GP	OP471GP-ND	Op Amp Quad High Speed LN	14-Dip	7.98	6.39	5.39
OP471GPZ	OP471GPZ-ND	Op Amp Quad High Speed LN*	14-Dip	7.98	6.39	5.39
OP471GS	OP471GS-ND	Op Amp Quad High Speed LN	16-SOIC	8.10	6.48	5.47
OP471GSZ	OP471GSZ-ND	Op Amp Quad High Speed LN*	16-SOIC	8.10	6.48	5.47
OP490GS-REEL	OP490GS-REELCT-ND	Op Amp Quad Micropower	16-SOIC	8.32	6.66	5.62
OP490GS-REEL	OP490GS-REELTR-ND	Op Amp Quad Micropower	16-SOIC	5200.00/1,000		
OP490GSZ-REEL	OP490GSZ-REELCT-ND	Op Amp Quad Micropower* ***NEW!***	16-SOIC	8.32	6.66	5.62
OP490GSZ-REEL	OP490GSZ-REELTR-ND	Op Amp Quad Micropower* ***NEW!***	16-SOIC	5200.00/1,000		
OP495GP	OP495GP-ND	Op Amp Quad Rail-to-Rail	14-Dip	7.78	6.23	5.26
OP495GPZ	OP495GPZ-ND	Op Amp Quad Rail-to-Rail*	14-Dip	7.78	6.23	5.26
OP2177ARZ	OP2177ARZ-ND	Op Amp Dual Precision LN*	8-SOIC	3.78	3.03	2.36
OP2177AR-REEL7	OP2177AR-REEL7TR-ND	Op Amp Dual Precision LN	8-SOIC	2142.00/1,000		
OP2177ARZ-REEL7	OP2177ARZ-REEL7CT-ND	Op Amp Dual Precision LN* ***NEW!***	8-SOIC	3.78	3.03	2.36
OP2177ARZ-REEL7	OP2177ARZ-REEL7TR-ND	Op Amp Dual Precision LN* ***NEW!***	8-SOIC	2142.00/1,000		
OP2177ARMZ-R2	OP2177ARMZ-R2CT-ND	Op Amp Dual Precision LN*	8-MSOP	4.55	3.64	2.83
OP2177ARMZ-R2	OP2177ARMZ-R2TR-ND	Op Amp Dual Precision LN*	8-MSOP	671.75/250		
OP2177ARMZ-REEL	OP2177ARMZ-REELCT-ND	Op Amp Dual Precision LN* ***NEW!***	8-MSOP	3.40	2.72	2.12
OP2177ARMZ-REEL	OP2177ARMZ-REELTR-ND	Op Amp Dual Precision LN* ***NEW!***	8-MSOP	5709.00/3,000		

Low Power

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD818AN	AD818AN-ND	Video Op Amp 130MHz LP	8-Dip	4.01	3.21	2.50
AD818ANZ	AD818ANZ-ND	Video Op Amp 130MHz LP*	8-Dip	4.01	3.21	2.50
AD818AR	AD818AR-ND	Video Op Amp 130MHz LP	8-SOIC	4.01	3.21	2.50
AD818ARZ	AD818ARZ-ND	Video Op AMp 130MHz LP* ***NEW!***	8-SOIC	4.01	3.21	2.50
AD820AN	AD820AN-ND	Op Amp FET R-R Low Power	8-Dip	4.39	3.51	2.73
AD820ANZ	AD820ANZ-ND	Op Amp FET R-R Low Power*	8-Dip	4.19	3.35	2.61
AD820AR-REEL7	AD820AR-REEL7TR-ND	Op Amp FET R-R Low Power	8-SOIC	1862.25/750		
AD820ARZ	AD820ARZ-ND	Op Amp FET R-R Low Power* ***NEW!***	8-SOIC	4.10	3.28	2.55
AD820BR	AD820BR-ND	Op Amp FET R-R Low Power	8-SOIC	5.56	4.45	3.76
AD820BRZ	AD820BRZ-ND	Op Amp FET R-R Low Power*	8-SOIC	5.30	4.24	3.58
AD824ARZ-14	AD824ARZ-14-ND	Op Amp FET R-R LP* ***NEW!***	14-SOIC	9.08	7.27	6.13
AD826AR-REEL7	AD826AR-REEL7CT-ND	Op Amp Dual High Speed Low Power	8-SOIC	4.97	3.98	3.10
AD826AR-REEL7	AD826AR-REEL7TR-ND	Op Amp Dual High Speed Low Power	8-SOIC	2154.75/750		
AD827AQ	AD827AQ-ND	Op Amp Dual High Speed Low Power	8-CDip	12.05	10.85	9.62
AD8002ARM	AD8002ARM-ND	Op Amp Current-Feedback Dual	8-MSOP	5.68	4.55	3.84
AD8005ART-REEL7	AD8005ART-REEL7CT-ND	Op Amp Current-Feedback LP	SOT-23-5	2.84	2.27	1.77
AD8005ARTZ-REEL7	AD8005ARTZ-REEL7CT-ND	Op Amp Current-Feedback LP* ***NEW!***	SOT-23-5	2.84	2.27	1.77
AD8005ARTZ-REEL7	AD8005ARTZ-REEL7TR-ND	Op Amp Current-Feedback LP* ***NEW!***	SOT-23-5	4764.00/3,000		
AD8014AR	AD8014AR-ND	Op Amp Current-Feedback LP	8-SOIC	3.06	2.45	1.91
AD8014ART-REEL7	AD8014ART-REEL7CT-ND	Op Amp Current-Feedback LP	SOT-23-5	2.68	2.15	1.67
AD8014ART-REEL7	AD8014ART-REEL7TR-ND	Op Amp Current-Feedback LP	SOT-23-5	4497.00/3,000		
AD8014ARTZ-REEL7	AD8014ARTZ-REEL7CT-ND	Op Amp Current-Feedback LP* ***NEW!***	SOT-23-5	2.68	2.15	1.67
AD8014ARTZ-REEL7	AD8014ARTZ-REEL7TR-ND	Op Amp Current-Feedback LP* ***NEW!***	SOT-23-5	4497.00/3,000		
AD8625AR	AD8625AR-ND	Op Amp Quad JFET R-R	14-SOIC	8.94	7.16	6.04
AD8625ARU	AD8625ARU-ND	Op Amp Quad JFET R-R	14-TSSOP	8.94	7.16	6.04
AD8625ARUZ	AD8625ARUZ-ND	Op Amp Quad JFET R-R*	14-TSSOP	8.94	7.16	6.04
AD8625ARZ	AD8625ARZ-ND	Op Amp Quad JFET R-R*	14-SOIC	8.94	7.16	6.04
AD8626AR	AD8626AR-ND	Op Amp Precision JFET Low Power	8-SOIC	5.36	4.29	3.62
AD8626ARM-R2	AD8626ARM-R2CT-ND	Op Amp Precision JFET Low Power	8-MSOP	6.44	5.16	4.35
AD8626ARM-R2	AD8626ARM-R2TR-ND	Op Amp Precision JFET Low Power	8-MSOP	1046.50/250		
AD8626ARMZ-R2	AD8626ARMZ-R2CT-ND	Op Amp Precision JFET Low Power*	8-MSOP	6.44	5.16	4.35
AD8626ARMZ-R2	AD8626ARMZ-R2TR-ND	Op Amp Precision JFET Low Power*	8-MSOP	1046.50/250		
AD8626ARZ	AD8626ARZ-ND	Op Amp Precision JFET Low Power*	8-SOIC	5.36	4.29	3.62
AD8627AKS-R2	AD8627AKS-R2CT-ND	Op Amp Precision JFET Low Power	SC70-5	4.73	3.78	2.94
AD8627AKS-R2	AD8627AKS-R2TR-ND	Op Amp Precision JFET Low Power	SC70-5	698.25/250		
AD8627AKSZ-R2	AD8627AKSZ-R2CT-ND	Op Amp Precision JFET Low Power*	SC70-5	4.73	3.78	2.94
AD8627AKSZ-R2	AD8627AKSZ-R2TR-ND	Op Amp Precision JFET Low Power*	SC70-5	698.25/250		
AD8627AR	AD8627AR-ND	Op Amp Precision JFET Low Power	8-SOIC	3.94	3.15	2.45
AD8627ARZ	AD8627ARZ-ND	Op Amp Precision JFET Low Power*	8-SOIC	3.94	3.15	2.45
OP90GPZ	OP90GPZ-ND	Op Amp Precision Low Power*	8-Dip	3.67	2.94	2.29
OP90GSZ	OP90GSZ-ND	Op Amp Precision Low Power*	8-SOIC	3.67	2.94	2.29
OP97EPZ	OP97EPZ-ND	Op Amp Low Power OP07*	8-Dip	6.08	4.87	4.11
OP97FP	OP97FP-ND	Op Amp Low Power OP07	8-Dip	2.39	1.91	1.49
OP97FPZ	OP97FPZ-ND	Op Amp Low Power OP07*	8-Dip	2.27	1.82	1.42
OP97FSZ	OP97FSZ-ND	Op Amp Low Power OP07*	8-SOIC	2.27	1.82	1.42
OP193FSZ	OP193FSZ-ND	Op Amp Micropower R-R*	8-SOIC	2.99	2.40	1.87
OP220GSZ	OP220GSZ-ND	Op Amp Dual Low Power*	8-SOIC	4.52	3.62	2.82
OP221GS	OP221GS-ND	Op Amp Dual Single Supply LP	8-SOIC	4.12	3.30	2.57
OP221GSZ	OP221GSZ-ND	Op Amp Dual Single Supply LP*	8-SOIC	4.12	3.30	2.57
OP490GPZ	OP490GPZ-ND	Op Amp Quad Low Voltage LP*	14-Dip	8.32	6.66	5.62
OP490GSZ	OP490GSZ-ND	Op Amp Quad Low Voltage LP*	16-SOIC	8.32	6.66	5.62
OP496GSZ	OP496GSZ-ND	Op Amp Quad Rail-to-Rail LP*	14-SOIC	5.13	4.11	3.20
OP497FP	OP497FP-ND	Op Amp Quad Precision Voltage LP	14-Dip	8.78	7.91	7.01
OP497FPZ	OP497FPZ-ND	Op Amp Quad Precision Voltage LP*	14-Dip	8.36	7.53	6.68
OP497FSZ	OP497FSZ-ND	Op Amp Quad Precision Voltage LP*	16-SOIC	9.96	7.97	6.73
OP497GPZ	OP497GPZ-ND	Op Amp Quad Precision Voltage LP*	14-Dip	6.88	5.51	4.65
OP497GS	OP497GS-ND	Op Amp Quad Precision Voltage LP	16-SOIC	6.88	5.51	4.65
OP497GSZ	OP497GSZ-ND	Op Amp Quad Precision Voltage LP*	16-SOIC	6.56	5.25	4.43

Precision

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD548JR	AD548JR-ND	Precision BiFET Op Amp Low Power	8-SOIC	2.75	2.20	1.71
AD548JRZ	AD548JRZ-ND	Precision BiFET Op Amp Low Power*	8-SOIC	2.75	2.20	1.71
AD548KN	AD548KN-ND	Precision BiFET Op Amp Low Power	8-Dip	6.00	4.80	4.05
AD548KNZ	AD548KNZ-ND	Precision BiFET Op Amp Low Power*	8-Dip	6.00	4.80	4.05
AD548TH	AD548TH-ND	Precision BiFET Op Amp Low Power	TO-99	13.94	12.56	11.14
AD549JH	AD549JH-ND	Low Bias Current Op Amp	TO-99	18.44	17.21	15.98
AD549KH	AD549KH-ND	Low Bias Current Op Amp	TO-99	25.74	24.03	22.31
AD549LH	AD549LH-ND	Low Bias Current Op Amp	TO-99	31.82	29.70	27.58
AD585SQ	AD585SQ-ND	Prec. Sample/Hold Amp	14-Dip	65.21	60.86	56.52
AD648JN	AD648JN-ND	Op Amp Dual Precision LP BiFET	8-Dip	3.51	2.81	2.19
AD648JNZ	AD648JNZ-ND	Op Amp Dual Precision LP BiFET*	8-Dip	3.51	2.81	2.19
AD648JR	AD648JR-ND	Op Amp Dual Precision LP BiFET	8-SOIC	3.51	2.81	2.19
AD648JRZ	AD648JRZ-ND	Op Amp Dual Precision LP BiFET*	8-SOIC	3.51	2.81	2.19
AD648KN	AD648KN-ND	Op Amp Dual Precision LP BiFET	8-Dip	7.94	6.36	5.36
AD648KNZ	AD648KNZ-ND	Op Amp Dual Precision LP BiFET*	8-Dip	7.94	6.36	5.36
AD704AR-16	AD704AR-16-ND	Bipolar Op Amp Quad	16-SOIC	8.58	6.87	5.80
AD704ARZ-16	AD704ARZ-16-ND	Bipolar Op Amp Quad*	16-SOIC	8.18	6.55	5.53
AD704JN	AD704JN-ND	Bipolar Op Amp Quad	14-Dip	8.00	6.40	5.40
AD704JNZ	AD704JNZ-ND	Bipolar Op Amp Quad*	14-Dip	7.62	6.10	5.15
AD704JRZ-16	AD704JRZ-16-ND	Bipolar Op Amp Quad*	16-SOIC	7.62	6.10	5.15
AD706ARZ	AD706ARZ-ND	Bipolar Op Amp Dual* ***NEW!***	8-SOIC	4.75	3.80	2.96
AD706JN	AD706JN-ND	Bipolar Op Amp Dual	8-Dip	4.66	3.73	2.90
AD706JNZ	AD706JNZ-ND	Bipolar Op Amp Dual*	8-Dip	3.94	3.16	2.66
AD706JR	AD706JR-ND	Bipolar Op Amp Dual	8-SOIC	4.39	3.51	2.73
AD711AQ	AD711AQ-ND	Precision Op Amp BiFET HS	8-CDip	5.47	4.38	3.41
AD711JNZ	AD711JNZ-ND	Precision Op AMp BiFET HS* ***NEW!***	8-Dip	2.36	1.89	1.47
AD711JRZ	AD711JRZ-ND	Precision Op Amp BiFET HS*	8-SOIC	2.32	1.86	1.45
AD711KN	AD711KN-ND	Precision Op Amp BiFET HS	8-Dip	4.48	3.59	2.79
AD711KR	AD711KR-ND	Precision Op Amp BiFET HS	8-SOIC	4.28	3.42	2.66
AD711KRZ	AD711KRZ-ND	Precision Op Amp BiFET HS*	8-SOIC	4.07	3.26	2.54
AD745KR-16	AD745KR-16-ND	Op Amp Low Noise BiFET	16-SOIC	11.40	10.26	9.10
AD745KRZ-16	AD745KRZ-16-ND	Op Amp Low Noise BiFET*	16-SOIC	10.85	9.77	8.66
AD746AQ	AD746AQ-ND	Precision Op Amp Dual BiFET	8-CDip	8.95	8.06	7.15
AD783JRZ	AD783JRZ-ND	Amp Mono Sample and Hold* ***NEW!***	8-SOIC	17.03	15.89	14.76
AD822ANZ	AD822ANZ-ND	Dual Precision, Low Power FET Input Op Amp*	8-Dip	5.60	4.48	3.78
AD822ARZ	AD822ARZ-ND	Dual Precision, Low Power FET Input Op Amp*	8-SOIC	5.50	4.40	3.72
AD822AR-REEL7	AD822AR-REEL7CT-ND	Dual Precision, Low Power FET Input Op Amp	8-SOIC	6.50	5.21	4.05
AD822AR-REEL7	AD822AR-REEL7TR-ND	Dual Precision, Low Power FET Input Op Amp	8-SOIC	2752.50/750		
AD822ARZ-REEL7	AD822ARZ-REEL7TR-ND	Dual Precision, Low Power FET Input Op Amp* ***NEW!***	8-SOIC	2619.75/750		
AD822ARM-REEL	AD822ARM-REELCT-ND	Dual Precision, Low Power FET Input Op Amp	8-MSOP	5.58	4.47	3.48
AD822ARM-REEL	AD822ARM-REELTR-ND	Dual Precision, Low Power FET Input Op Amp	8-MSOP	9828.00/3,000		
AD822ARMZ-R2	AD822ARMZ-R2CT-ND	Dual Precision, Low Power FET Input Op Amp*	8-MSOP	6.60	5.28	4.46
AD822ARMZ-R2	AD822ARMZ-R2TR-ND	Dual Precision, Low Power FET Input Op Amp*	8-MSOP	1072.50/250		
AD822ARMZ-REEL	AD822ARMZ-REELTR-ND	Dual Precision, Low Power FET Input Op Amp* ***NEW!***	8-MSOP	9375.00/3,000		
AD822BRZ	AD822BRZ-ND	Dual Precision, Low Power FET Input Op Amp*	8-SOIC	8.20	6.56	5.54
AD823AN	AD823AN-ND	Dual Prec., 16MHz JFET Input Op Amp	8-Dip	5.00	4.00	3.38
AD823ANZ	AD823ANZ-ND	Dual Prec., 16MHz JFET Input Op Amp*	8-Dip	5.00	4.00	3.38
AD823AR	AD823AR-ND	Dual Prec., 16MHz JFET Input Op Amp	8-SOIC	5.00	4.00	3.38
AD823ARZ	AD823ARZ-ND	Dual Prec., 16MHz JFET Input Op Amp* ***NEW!***	8-SOIC	5.00	4.00	3.38
AD823AR-REEL7	AD823AR-REEL7TR-ND	Dual Prec., 16MHz JFET Input Op Amp	8-SOIC	2381.25/750		
AD823ARZ-R7	AD823ARZ-R7CT-ND	Dual Prec., 16MHz JFET Input Op Amp* ***NEW!***	8-SOIC	5.00	4.00	3.38
AD823ARZ-R7	AD823ARZ-R7TR-ND	Dual Prec., 16MHz JFET Input Op Amp* ***NEW!***	8-SOIC	2381.25/750		
AD845BQ	AD845BQ-ND	Op Amp JFET Precision 16MHz	8-CDip	10.58	9.53	8.45
AD8221AR	AD8221AR-ND	Precision Instrumentation Amp	8-SOIC	5.48	4.39	3.70
AD8221ARZ	AD8221ARZ-ND	Precision Instrumentation Amp*	8-SOIC	5.48	4.39	3.70
AD8221ARM	AD8221ARM-ND	Precision Instrumentation Amp	8-MSOP	5.29	4.23	3.29
AD8221ARMZ	AD8221ARMZ-ND	Precision Instrumentation Amp*	8-MSOP	5.29	4.23	3.29
AD8221BR	AD8221BR-ND	Precision Instrumentation Amp	8-SOIC	9.58	7.67	6.47
AD8221BRZ	AD8221BRZ-ND	Precision Instrumentation Amp*	8-SOIC	9.58	7.67	6.47
AD8221-EVAL	AD8221-EVAL-ND	Evaluation Board for AD8221	—	63.60	—	—
AD8513AR	AD8513AR-ND	Wide-Bandwidth Quad JFET Op Amp	14-SOIC	8.20	6.56	5.54
AD8513ARZ	AD8513ARZ-ND	Wide-Bandwidth Quad JFET Op Amp*	14-SOIC	7.80	6.24	5.27
AD8513ARU	AD8513ARU-ND	Wide-Bandwidth Quad JFET Op Amp	14-TSSOP	8.20	6.56	5.54
AD8513ARUZ	AD8513ARUZ-ND	Wide-Bandwidth Quad JFET Op Amp*	14-TSSOP	7.80	6.24	5.27
AD8572ARUZ	AD8572ARUZ-ND	0-Drift R-R I/O Op Amp*	8-TSSOP	4.16	3.33	2.59
AD8601ART-REEL7	AD8601ART-REEL7CT-ND	Precision CMOS Single R-R In/Out Wideband Op Amp	SOT-23-5	1.33	1.06	.80
AD8601ART-REEL7	AD8601ART-REEL7TR-ND	Precision CMOS Single R-R In/Out Wideband Op Amp	SOT-23-5	2034.00/3,000		
AD8601ARTZ-REEL7	AD8601ARTZREEL7CT-ND	Precision CMOS Single R-R In/Out Wideband Op Amp*	SOT-23-5	1.33	1.06	.80
AD8601ARTZ-REEL7	AD8601ARTZREEL7TR-ND	Precision CMOS Single R-R In/Out Wideband Op Amp*	SOT-23-5	2034.00/3,000		
AD8610ARZ	AD8610ARZ-ND	Precision JFET Input Op Amp*	8-SOIC	8.00	6.40	5.40
AD8610BRZ	AD8610BRZ-ND	Precision JFET Input Op Amp*	8-SOIC	15.75	14.70	13.65
AD8615AUJZ-REEL7	AD8615AUJZ-REEL7CT-ND	Precision 20MHz CMOS R-R In/Out Op Amp* ***NEW!***	TSOT-23-5	1.88	1.50	1.13
AD8615AUJZ-REEL7	AD8615AUJZ-REEL7TR-ND	Precision 20MHz CMOS R-R In/Out Op Amp* ***NEW!***	TSOT-23-5	2880.00/3,000		
AD8616AR	AD8616AR-ND	20MHz, R-R, Op Amp Dual	8-SOIC	3.15	2.52	1.96
AD8616ARZ	AD8616ARZ-ND	20MHz, R-R, Op Amp Dual*	8-SOIC	3.15	2.52	1.96
AD8616ARM-R2	AD8616ARM-R2CT-ND	20MHz, R-R, Op Amp Dual	8-MSOP	4.16	3.33	2.59
AD8616ARM-R2	AD8616ARM-R2TR-ND	20MHz, R-R, Op Amp Dual	8-MSOP	615.25/250		
AD8616ARMZ-R2	AD8616ARMZ-R2CT-ND	20MHz, R-R, Op Amp Dual*	8-MSOP	4.16	3.33	2.59
AD8616ARMZ-R2	AD8616ARMZ-R2TR-ND	20MHz, R-R, Op Amp Dual*	8-MSOP	615.25/250		
AD8618AR	AD8618AR-ND	Precision 20MHz CMOS R-R In/Out Op Amp	14-SOIC	5.00	4.00	3.38
AD8618ARZ	AD8618ARZ-ND	Precision 20MHz CMOS R-R In/Out Op Amp*	14-SOIC	5.00	4.00	3.38
AD8620AR	AD8620AR-ND	Op Amp Precision JFET LN	8-SOIC	13.33	12.00	10.64
AD8620ARZ	AD8620ARZ-ND	Precision JFET Op Amp*	8-SOIC	13.33	12.00	10.64
AD8620BR	AD8620BR-ND	Op Amp Precision JFET LN	8-SOIC	26.70	24.92	23.14
AD8620BRZ	AD8620BRZ-ND	Op Amp Precision JFET LN*	8-SOIC	26.70	24.92	23.14
AD8628AR	AD8628AR-ND	Op Amp Rail-to-Rail 0-Drift	8-SOIC	2.48	1.98	1.54
AD8628ART-R2	AD8628ART-R2CT-ND	Op Amp Rail-to-Rail 0-Drift	SOT-23-5	2.97	2.38	1.85
AD8628ART-R2	AD8628ART-R2TR-ND	Op Amp Rail-to-Rail 0-Drift	SOT-23-5	439.00/250		
AD8628ARTZ-R2	AD8628ARTZ-R2CT-ND	Op Amp Rail-to-Rail 0-Drift*	SOT-23-5	2.97	2.38	1.85
AD8628ARTZ-R2	AD8628ARTZ-R2TR-ND	Op Amp Rail-to-Rail 0-Drift*	SOT-23-5	439.00/250		
AD8628ARZ	AD8628ARZ-ND	Op Amp Rail-to-Rail 0-Drift*	8-SOIC	2.48	1.98	1.54

* ***RoHS Compliant***

(Continued)

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ANALOG DEVICES AMPLIFIERS *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8698ARZ	AD8698ARZ-ND	Precision Dual R-R Output Op Amp*	8-SOIC	5.34	4.28	3.61
AMP03GPZ	AMP03GPZ-ND	Amp Diff. Precision Unity Gain*	8-Dip	5.22	4.18	3.53
AMP03GSZ	AMP03GSZ-ND	Amp Diff. Precision Unity Gain*	8-SOIC	5.22	4.18	3.53
OP07CP	OP07CPADI-ND	Op Amp Ultra Low Offset	8-Dip	1.47	1.23	.98
OP07CPZ	OP07CPZ-ND	Op Amp Ultra Low Offset*	8-Dip	1.47	1.23	.98
OP07CSZ	OP07CSZ-ND	Op Amp Ultra Low Offset*	8-SOIC	1.47	1.23	.98
OP07DNZ	OP07DNZ-ND	Op Amp Ultra Low Offset* ***NEW!***	8-Dip	1.23	1.03	.82
OP07DRZ	OP07DRZ-ND	Op Amp Ultra Low Offset* ***NEW!***	8-SOIC	1.23	1.03	.82
OP07EPZ	OP07EPZ-ND	Op Amp Ultra Low Offset*	8-Dip	3.04	2.43	1.89
OP27GS-REEL7	OP27GS-REEL7TR-ND	Op Amp Precision Low Noise	8-SOIC	1364.25/1,000		
OP27GZ	OP27GZ-ND	Op Amp Precision Low Noise*	8-Dip	9.34	7.48	6.31
OP37EPZ	OP37EPZ-ND	Op Amp Precision LN 63MHz HS*	8-Dip	4.91	3.93	3.06
OP37GPZ	OP37GPZ-ND	Op Amp Precision LN 63MHz HS*	8-Dip	2.20	1.76	1.32
OP37GS	OP37GS-ND	Op Amp Precision LN 63MHz HS	8-SOIC	2.10	1.68	1.26
OP37GSZ	OP37GSZ-ND	Op Amp Precision LN 63MHz HS*	8-SOIC	2.00	1.60	1.20
OP42AZ	OP42AZ-ND	Op Amp Precision High Speed*	8-CDip	20.64	19.27	17.89
OP42EJ	OP42EJ-ND	Op Amp Precision High Speed	TO-99	15.46	13.92	12.35
OP42EZ	OP42EZ-ND	Op Amp Precision High Speed*	8-CDip	13.61	12.26	10.87
OP77EZ	OP77EZ-ND	Op Amp Super Precision OP07*	8-CDip	9.24	7.40	6.24
OP77FJ	OP77FJ-ND	Op Amp Super Precision OP07	TO-99	8.66	6.93	5.85
OP77FZ	OP77FZ-ND	Op Amp Super Precision OP07*	8-CDip	5.40	4.32	3.65
OP90GS-REEL7	OP90GS-REEL7CT-ND	Op Amp Precision Micropower	8-SOIC	3.67	2.94	2.29
OP90GS-REEL7	OP90GS-REEL7TR-ND	Op Amp Precision Micropower	8-SOIC	2078.00/1,000		
OP97FS-REEL7	OP97FS-REEL7CT-ND	Op Amp Precision Low Power	8-SOIC	2.39	1.91	1.49
OP97FS-REEL7	OP97FS-REEL7TR-ND	Op Amp Precision Low Power	8-SOIC	1352.00/1,000		
OP177FPZ	OP177FPZ-ND	Op Amp Ultra-Precision High Gain*	8-Dip	4.50	3.60	2.80
OP177FSZ	OP177FSZ-ND	Op Amp Ultra-Precision High Gain*	8-SOIC	4.50	3.60	2.80
OP177GPZ	OP177GPZ-ND	Op Amp Ultra-Precision*	8-Dip	1.60	1.28	.96
OP177GSZ	OP177GSZ-ND	Op Amp Ultra-Precision*	8-SOIC	1.60	1.28	.96
OP177GS-REEL7	OP177GS-REEL7CT-ND	Op Amp Ultra-Precision	8-SOIC	1.60	1.28	.96
OP177GS-REEL7	OP177GS-REEL7TR-ND	Op Amp Ultra-Precision	8-SOIC	832.00/1,000		
OP184ESZ	OP184ESZ-ND	Op Amp Precision Single Supply R-R*	8-SOIC	5.60	4.49	3.49
OP184FSZ	OP184FSZ-ND	Op Amp Precision Single Supply R-R*	8-SOIC	3.71	2.97	2.31
OP191GSZ	OP191GSZ-ND	Op Amp Single Supply R-R LP*	8-SOIC	3.26	2.61	2.03
OP196GSZ	OP196GSZ-ND	Op Amp Single Supply R-R LP*	8-SOIC	2.70	2.16	1.68
OP200AZ	OP200AZ-ND	Op Amp Dual Ultra-Precision*	8-CDip	16.44	15.35	14.25
OP200GPZ	OP200GPZ-ND	Op Amp Dual Ultra-Precision*	8-Dip	5.60	4.49	3.49
OP200GS	OP200GS-ND	Op Amp Dual Ultra-Precision	16-SOIC	5.60	4.49	3.49
OP200GSZ	OP200GSZ-ND	Op Amp Dual Ultra-Precision*	16-SOIC	5.60	4.49	3.49
OP262GSZ	OP262GSZ-ND	Op Amp Dual 15MHz Rail-to-Rail*	8-SOIC	4.07	3.26	2.54
OP282GS	OP282GS-ND	Op Amp Dual JFET Input	8-SOIC	2.39	1.91	1.49
OP282GS-REEL7	OP282GS-REEL7TR-ND	Op Amp Dual JFET Input	8-SOIC	1352.00/1,000		
OP282GS-REEL	OP282GS-REELTR-ND	Op Amp Dual JFET Input	8-SOIC	3340.00/2,500		
OP282GSZ	OP282GSZ-ND	Op Amp Dual JFET Input*	8-SOIC	2.39	1.91	1.49
OP284EPZ	OP284EPZ-ND	Op Amp Dual Precision Rail-to-Rail*	8-Dip	8.96	7.17	6.05
OP284ESZ	OP284ESZ-ND	Op Amp Dual Precision Rail-to-Rail*	8-SOIC	8.80	7.04	5.94
OP284FSZ	OP284FSZ-ND	Op Amp Dual Precision Rail-to-Rail*	8-SOIC	6.00	4.80	4.05
OP284FS-REEL7	OP284FS-REEL7CT-ND	Op Amp Dual Precision Rail-to-Rail	8-SOIC	6.30	5.04	4.26
OP284FS-REEL7	OP284FS-REEL7TR-ND	Op Amp Dual Precision Rail-to-Rail	8-SOIC	3938.00/1,000		
OP285GSZ	OP285GSZ-ND	Op Amp Dual Precision 9MHz*	8-SOIC	4.61	3.69	2.87
OP290GP	OP290GP-ND	Op Amp Dual Precision Single Supply	8-Dip	6.06	4.85	4.10
OP290GPZ	OP290GPZ-ND	Op Amp Dual Precision Single Supply*	8-Dip	6.06	4.85	4.10
OP297EZ	OP297EZ-ND	Op Amp Dual Low Off/Bias*	8-Dip	10.38	9.35	8.29
OP297FP	OP297FP-ND	Op Amp Dual Low Off/Bias	8-Dip	5.28	4.23	3.57
OP297FPZ	OP297FPZ-ND	Op Amp Dual Low Off/Bias*	8-Dip	5.02	4.02	3.39
OP297FSZ	OP297FSZ-ND	Op Amp Dual Low Off/Bias*	8-SOIC	5.47	4.38	3.41
OP297GP	OP297GP-ND	Op Amp Dual Low Off/Bias	8-Dip	4.66	3.73	2.90
OP297GPZ	OP297GPZ-ND	Op Amp Dual Low Off/Bias*	8-Dip	4.43	3.55	2.76
OP297GSZ	OP297GSZ-ND	Op Amp Dual Low Off/Bias*	8-SOIC	4.19	3.35	2.61
OP297GS-REEL7	OP297GS-REEL7CT-ND	Op Amp Dual Low Off/Bias	8-SOIC	4.39	3.51	2.73
OP297GS-REEL7	OP297GS-REEL7TR-ND	Op Amp Dual Low Off/Bias	8-SOIC	2486.00/1,000		
OP484ESZ	OP484ESZ-ND	Op Amp Quad Precision R-R*	14-SOIC	13.08	11.78	10.45
OP484FP	OP484FP-ND	Op Amp Quad Precision R-R	14-Dip	9.18	8.27	7.33
OP484FPZ	OP484FPZ-ND	Op Amp Quad Precision R-R*	14-Dip	8.75	7.88	6.99
OP484FSZ	OP484FSZ-ND	Op Amp Quad Precision R-R*	14-SOIC	8.33	7.50	6.65
OP484FS-REEL7	OP484FS-REEL7CT-ND	Op Amp Quad Precision R-R	14-SOIC	8.33	7.50	6.65
OP484FS-REEL7	OP484FS-REEL7TR-ND	Op Amp Quad Precision R-R	14-SOIC	6484.00/1,000		
OP484FSZ-REEL7	OP484FSZ-REEL7CT-ND	Op Amp Quad Precision R-R* ***NEW!***	14-SOIC	8.33	7.50	6.65
OP484FSZ-REEL7	OP484FSZ-REEL7TR-ND	Op Amp Quad Precision R-R* ***NEW!***	14-SOIC	6175.00/1,000		
OP491GPZ	OP491GPZ-ND	Op Amp Quad Single Supply R-R*	14-Dip	6.20	4.96	4.19
OP491GSZ	OP491GSZ-ND	Op Amp Quad Single Supply R-R*	14-SOIC	6.20	4.96	4.19
OP727AR	OP727AR-ND	Op Amp Dual Precision R-R Out	8-SOIC	4.05	3.24	2.52
OP727ARU	OP727ARU-ND	Op Amp Dual Precision R-R Out	8-TSSOP	4.05	3.24	2.52
OP727ARUZ	OP727ARUZ-ND	Op Amp Dual Precision R-R Out*	8-TSSOP	4.05	3.24	2.52
OP727ARZ	OP727ARZ-ND	Op Amp Dual Precision R-R Out*	8-SOIC	4.05	3.24	2.52
OP747AR	OP747AR-ND	Op Amp Quad Precision R-R Out	14-SOIC	6.60	5.28	4.46
OP747ARZ	OP747ARZ-ND	Op Amp Quad Precision R-R Out*	14-SOIC	6.60	5.28	4.46
OP747ARU	OP747ARU-ND	Op Amp Quad Precision R-R	14-TSSOP	6.60	5.28	4.46
OP747ARUZ	OP747ARUZ-ND	Op Amp Quad Precision R-R*	14-TSSOP	6.60	5.28	4.46
OP777AR	OP777AR-ND	Op Amp Precision Single Supply R-R	8-SOIC	2.70	2.16	1.68
OP777ARZ	OP777ARZ-ND	Op Amp Precision Single Supply R-R*	8-SOIC	2.70	2.16	1.68
OP1177ARZ	OP1177ARZ-ND	Op Amp Precision LN Bias Current* ***NEW!***	8-SOIC	2.43	1.94	1.46
OP1177ARM-REEL	OP1177ARM-REELCT-ND	Op Amp Precision LN Bias Current	8-MSOP	2.00	1.60	1.20
OP1177ARM-REEL	OP1177ARM-REELTR-ND	Op Amp Precision LN Bias Current	8-MSOP	3072.00/3,000		
OP1177ARMZ-REEL	OP1177ARMZ-REELCT-ND	Op Amp Precision LN Bias Current*	8-MSOP	2.00	1.60	1.20
OP1177ARMZ-REEL	OP1177ARMZ-REELTR-ND	Op Amp Precision LN Bias Current*	8-MSOP	3072.00/3,000		
OP4177ARZ	OP4177ARZ-ND	Op Amp Quad Precision LN*	14-SOIC	7.92	6.34	5.35
OP4177ARUZ	OP4177ARUZ-ND	Op Amp Quad Precision LN*	14-TSSOP	7.92	6.34	5.35

Trans Line Driver

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8323ARU	AD8323ARU-ND	Low Noise Driver CATV Fine-Step	28-TSSOP	7.60	6.08	5.13

Variable Gain Amplifiers

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD600AQ	AD600AQ-ND	VGA Dual, Adjustable Gain	16-Dip	33.21	31.00	28.79
AD600A R	AD600AR-ND	VGA Dual, Adjustable Gain	16-SOIC	27.68	25.83	23.99
AD600ARZ	AD600ARZ-ND	VGA Dual, Adjustable Gain*	16-SOIC	27.68	25.83	23.99
AD600JN	AD600JN-ND	VGA Dual, Adjustable Gain	16-DIp	21.29	19.87	18.45
AD600JNZ	AD600JNZ-ND	VGA Dual, Adjustable Gain* ***NEW!***	16-Dip	21.29	19.87	18.45
AD600JR	AD600JR-ND	VGA Dual, Adjustable Gain	16-SOIC	21.29	19.87	18.45
AD600JRZ	AD600JRZ-ND	VGA Dual, Adjustable Gain*	16-SOIC	21.29	19.87	18.45
AD602AR	AD602AR-ND	VGA Dual 35MHz Low Noise	16-SOIC	27.68	25.83	23.99
AD602ARZ	AD602ARZ-ND	VGA Dual 35MHz Low Noise*	16-SOIC	27.68	25.83	23.99
AD602JR	AD602JR-ND	VGA Dual 35MHz Low Noise	16-SOIC	21.29	19.87	18.45
AD602JRZ	AD602JRZ-ND	VGA Dual 35MHz Low Noise*	16-SOIC	21.29	19.87	18.45
AD603AQ	AD603AQ-ND	VGA 90MHz Low Noise	8-Dip	8.55	7.70	6.83
AD603AR	AD603AR-ND	VGA 90MHz Low Noise	8-SOIC	9.36	7.49	6.32
AD603AR-REEL7	AD603AR-REEL7CT-ND	VGA 90MHz Low Noise	8-SOIC	9.36	7.49	6.32
AD603AR-REEL7	AD603AR-REEL7TR-ND	VGA 90MHz Low Noise	8-SOIC	4458.00/750		
AD603ARZ	AD603ARZ-ND	VGA 90MHz Low Noise*	8-SOIC	9.36	7.49	6.32
AD604AN	AD604AN-ND	Amp Dual Adj. Gain Linear	24-Dip	21.08	19.67	18.27
AD604ARZ	AD604ARZ-ND	Amp Dual Adj. Gain Linear* ***NEW!***	24-SOIC	21.08	19.67	18.27
AD604ARSZ	AD604ARSZ-ND	Amp Dual Adj. Gain Linear* ***NEW!***	24-SSOP	25.29	23.61	21.92
AD605ANZ	AD605ANZ-ND	VGA Dual 40MHz Low Noise* ***NEW!***	16-Dip	15.94	14.36	12.73
AD605AR	AD605AR-ND	VGA Dual 40MHz Low Noise	16-SOIC	15.94	14.36	12.73
AD605ARZ	AD605ARZ-ND	VGA Dual 40MHz Low Noise*	16-SOIC	15.94	14.36	12.73
AD8330ACPZ-R7	AD8330ACPZ-R7CT-ND	VGA Single*	16-LFCSP	9.34	7.48	6.31
AD8330ACPZ-R7	AD8330ACPZ-R7TR-ND	VGA Single*	16-LFCSP	8757.00/1,500		
AD8330ARQZ	AD8330ARQZ-ND	VGA Single* ***NEW!***	16-QSOP	9.34	7.48	6.31
AD8330-EVAL	AD8330-EVAL-ND	Evaluation Board for AD8330	—	128.25	—	—
AD8331ARQ	AD8331ARQ-ND	VGA Single with Preamp	20-QSOP	9.06	8.16	7.24
AD8331ARQZ	AD8331ARQZ-ND	VGA Single with Preamp*	20-QSOP	9.06	8.16	7.24
AD8332ACP-R2	AD8332ACP-R2CT-ND	VGA Dual with Preamp Low Noise	32-LFCSP	16.74	15.63	14.51
AD8332ACP-R2	AD8332ACP-R2TR-ND	VGA Dual with Preamp Low Noise	32-LFCSP	3557.25/250		
AD8332ARU	AD8332ARU-ND	VGA Dual with Preamp Low Noise	28-TSSOP	16.74	15.63	14.51
AD8332ARUZ	AD8332ARUZ-ND	VGA Dual with Preamp Low Noise*	28-TSSOP	16.74	15.63	14.51
AD8367ARU	AD8367ARU-ND	VGA with AGC Detector	14-TSSOP	9.96	7.97	6.73
AD8367ARUZ	AD8367ARUZ-ND	VGA with AGC Detector*	14-TSSOP	9.96	7.97	6.73
AD8367-EVAL	AD8367-EVAL-ND	Evaluation Board for AD8367	—	111.38	—	—
AD8369ARU	AD8369ARU-ND	VGA Digital Controller	16-TSSOP	9.96	7.97	6.73
AD8369ARUZ	AD8369ARUZ-ND	VGA Digital Controller*	16-TSSOP	9.96	7.97	6.73
AD8370ARE	AD8370ARE-ND	Digital VGA LF to 750MHz	16-TSSOP	9.96	7.97	6.73
AD8370AREZ	AD8370AREZ-ND	Digital VGA LF to 750MHz* ***NEW!***	16-TSSOP	9.96	7.97	6.73
AD8370-EVAL	AD8370-EVAL-ND	Evaluation Board for AD8370	—	118.80	—	—
ADL5330ACPZ-R2	ADL5330ACPZ-R2CT-ND	VGA 10MHz to 3GHz* ***NEW!***	24-LFCSP	9.15	8.24	7.31
ADL5330ACPZ-R2	ADL5330ACPZ-R2TR-ND	VGA 10MHz to 3GHz* ***NEW!***	24-LFCSP	1750.00/250		
ADL5330-EVAL	ADL5330-EVAL-ND	Evaluation Board for ADL5330 ***NEW!***	—	148.50	—	—

ANALOG DEVICES ANALOG COMPUTATION CIRCUITS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD630AD	AD630AD-ND	Balanced Mod/Demod 2MHz	20-Dip	16.23	15.15	14.07
AD630AR	AD630AR-ND	Balanced Mod/Demod 2MHz	20-SOIC	15.42	14.40	13.37
AD630ARZ	AD630ARZ-ND	Balanced Mod/Demod 2MHz*	20-SOIC	15.42	14.40	13.37
AD630JNZ	AD630JNZ-ND	Balanced Mod/Demod 2MHz*	20-Dip	16.14	14.54	12.89
AD630KN	AD630KN-ND	Balanced Mod/Demod 2MHz	20-Dip	23.18	21.63	20.09
AD630KNZ	AD630KNZ-ND	Balanced Mod/Demod 2MHz*	20-Dip	23.18	21.63	20.09
AD632AH	AD632AH-ND	Precision Multiplier Mono	TO-100	15.63	14.59	13.55
AD632BD	AD632BD-ND	Precision Multiplier Mono	14-CDip	55.01	51.34	47.68
AD633AN	AD633AN-ND	Multiplier Analog	8-Dip	7.10	5.68	4.80
AD633ANZ	AD633ANZ-ND	Multiplier Analog*	8-Dip	7.10	5.68	4.80
AD633ARZ	AD633ARZ-ND	Multiplier Analog* ***NEW!***	8-SOIC	7.10	5.68	4.80
AD633JN	AD633JN-ND	Multiplier Analog	8-Dip	7.10	5.68	4.80
AD633JNZ	AD633JNZ-ND	Multiplier Analog*	8-Dip	7.10	5.68	4.80
AD633JR	AD633JR-ND	Multiplier Analog	8-SOIC	7.10	5.68	4.80
AD633JRZ	AD633JRZ-ND	Multiplier Analog* ***NEW!***	8-SOIC	7.10	5.68	4.80
AD7502KN	AD7502KN-ND	Analog Multiplexer 4-Channel	16-Dip	10.33	9.30	8.25
AD7569JP	AD7569JP-ND	In/Out Port 8-Bit Analog	28-PLCC	15.31	13.79	12.23

ANALOG DEVICES ANALOG/DIGITAL AUDIO

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD1893JST	AD1893JST-ND	Sample-Rate Converter 16-Bit	44-LQFP	15.48	14.45	13.42
AD1940YST	AD1940YST-ND	SigmaDSP™ Multichannel 28-Bit Audio Processor	48-LQFP	13.54	12.20	10.82
AD1940YSTZ	AD1940YSTZ-ND	SigmaDSP™ Multichannel 28-Bit Audio Processor*	48-LQFP	13.54	12.20	10.82
EVAL-AD1940EB	EVAL-AD1940EB-ND	Evaluation Board for AD1940	—	1048.50	—	—
AD1954YS	AD1954YS-ND	DSP DAC Audio 3-Ch./26-Bit	44-MQFP	14.31	12.89	11.43
SSM2018PZ	SSM2018PZ-ND	Amp Voltage Control Audio* ***NEW!***	16-Dip	5.68	4.55	3.84
SSM2018TPZ	SSM2018TPZ-ND	Amp Voltage Control Audio/Trimless* ***NEW!***	16-Dip	7.10	5.68	4.80
SSM2019BNZ	SSM2019BNZ-ND	Amp Audio Self-Contained Preamp*	8-Dip	4.61	3.69	2.87
SSM2019BRN	SSM2019BRN-ND	Amp Audio Self-Contained Preamp	8-SOIC	4.61	3.69	2.87
SSM2019BRW	SSM2019BRW-ND	Amp Audio Self-Contained Preamp	16-SOIC	4.61	3.69	2.87
SSM2019BRWZ	SSM2019BRWZ-ND	Amp Audio Self-Contained Preamp*	16-SOIC	4.61	3.69	2.87
SSM2135SZ	SSM2135SZ-ND	Amp Dual Audio Single Supply*	8-SOIC	5.02	4.02	3.13
SSM2141P	SSM2141P-ND	Amp Differential Line Receiver High Common-Mode	8-Dip	3.51	2.81	2.19
SSM2141PZ	SSM2141PZ-ND	Amp Differential Line Receiver High Common-Mode* ***NEW!***	8-Dip	3.51	2.81	2.19
SSM2141SZ	SSM2141SZ-ND	Amp Differential Line Receiver High Common-Mode* ***NEW!***	8-SOIC	3.51	2.81	2.19
SSM2142PZ	SSM2142PZ-ND	Amp Balance-Line Driver*	8-Dip	5.33	4.27	3.32
SSM2142SZ	SSM2142SZ-ND	Amp Balance-Line Driver*	16-SOIC	5.33	4.27	3.32
SSM2143P	SSM2143P-ND	Amp Differential Line Receiver High Common-Mode	8-Dip	3.35	2.69	2.09
SSM2143PZ	SSM2143PZ-ND	Amp Differential Line Receiver High Common-Mode* ***NEW!***	8-Dip	3.35	2.69	2.09
SSM2143SZ	SSM2143SZ-ND	Amp Differential Line Receiver High Common-Mode*	8-SOIC	3.35	2.69	2.09
SSM2160SZ	SSM2160SZ-ND	Balance/Voltage Control Digital*	24-SOIC	10.80	9.72	8.62
SSM2164P	SSM2164P-ND	Amp Quad Voltage Controller	16-Dip	5.86	4.69	3.96
SSM2164PZ	SSM2164PZ-ND	Amp Quad Voltage Controller* ***NEW!***	16-Dip	5.86	4.69	3.96
SSM2164S	SSM2164S-ND	Amp Quad Volt. Controller	16-SOIC	5.86	4.69	3.96
SSM2164SZ	SSM2164SZ-ND	Amp Quad Volt. Controller* ***NEW!***	16-SOIC	5.86	4.69	3.96
SSM2165-1S	SSM2165-1S-ND	Preamp Microphone 5V	8-SOIC	3.87	3.10	2.41
SSM2165-1SZ	SSM2165-1SZ-ND	Preamp Microphone 5V*	8-SOIC	3.87	3.10	2.41
SSM2165-2SZ	SSM2165-2SZ-ND	Preamp Microphone 5V*	8-SOIC	3.87	3.10	2.41
SSM2166SZ	SSM2166SZ-ND	Preamp Microphone 5V*	14-SOIC	5.16	4.13	3.49
SSM2210PZ	SSM2210PZ-ND	Trans Audio Dual NPN*	8-Dip	4.79	3.84	2.99

* ***RoHS Compliant***

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ANALOG DEVICES

ATE AND TIME DOMAIN

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD53033JSTP	AD53033JSTP-ND	Driver/Comparator with Heatsink	52-LQFP	47.73	44.55	41.37
AD53040KRP	AD53040KRP-ND	Pin Driver with Inhibit	20-PSOP	36.12	33.72	31.31
AD53041KRP	AD53041KRP-ND	Current Switch Load	20-PSOP	36.12	33.72	31.31
AD53500JRP	AD53500JRP-ND	Pin Driver High Current, High Speed	20-SOIC	36.12	33.72	31.31
AD5520JST	AD5520JST-ND	Single Parametric Measure	64-LQFP	31.68	29.57	27.46
AD5520JSTZ	AD5520JSTZ-ND	Single Parametric Measure* ***NEW!***	64-LQFP	31.68	29.57	27.46

ANALOG DEVICES

CCD

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9824KCPZ	AD9824KCPZ-ND	CCD Signal Processor 14-Bit* ***NEW!***	48-LFCSP	23.27	21.72	20.17
AD9840AJSTZ	AD9840AJSTZ-ND	CCD Signal Processor 10-Bit*	48-LQFP	9.55	8.60	7.63
AD9842AJSTZ	AD9842AJSTZ-ND	CCD Signal Processor 12-Bit* ***NEW!***	48-LQFP	13.66	12.30	10.91
AD9845BJSTZ	AD9845BJSTZ-ND	CCD Signal Processor 12-Bit* ***NEW!***	48-LQFP	15.11	14.10	13.10
AD9927BBCZ	AD9927BBCZ- ND	CCD Signal Processor 14-Bit* ***NEW!***	128-CSPBGA	17.46	16.30	15.14
AD9929BBCZ	AD9929BBCZ-ND	CCD Signal Processor*	64-BGA	18.24	17.03	15.81
AD9943KCPZ	AD9943KCPZ-ND	CCD Signal Processor 10-Bit, 25MHz*	32-LFCSP	7.26	5.81	4.91
AD9945KCPZ	AD9945KCPZ-ND	CCD Signal Processor*	32-LFCSP	8.63	7.77	6.89

ANALOG DEVICES

DATA COMMUNICATION

ASRC

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD1890JP	AD1890JP-ND	Converter Sample Rate Async.	28-PLCC	30.96	28.90	26.84
AD1895AYRSZ	AD1895AYRSZ-ND	Converter Sample Rate Async.*	28-SSOP	8.83	7.95	7.05
AD1896AYRSZ	AD1896AYRSZ-ND	Converter Sample Rate Async.*	28-SSOP	18.75	17.50	16.25

CODEC

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD1835AAS	AD1835AAS-ND	Codec 2ADC/8DAC 24-Bit	52-MQFP	15.00	14.00	13.00
AD1835AASZ	AD1835AASZ-ND	Codec 2ADC/8DAC 24-Bit*	52-MQFP	15.00	14.00	13.00
AD1836AAS	AD1836AAS-ND	Codec Stereo 2ADC/3DAC	52-MQFP	15.75	14.70	13.65
AD1836AASZ	AD1836AASZ-ND	Codec Stereo 2ADC/3DAC*	52-MQFP	15.75	14.70	13.65
AD1837AAS	AD1837AAS-ND	Codec 2ADC/8DAC 24-Bit	52-MQFP	16.24	14.63	12.97
AD1838AAS	AD1838AAS-ND	Codec 2ADC/6DAC 24-Bit	52-MQFP	16.04	14.45	12.81
AD1839AAS	AD1839AAS-ND	Codec 2ADC/8DAC 24-Bit	52-MQFP	15.63	14.07	12.48
AD1881AJSTZ	AD1881AJSTZ-ND	Audio Codec AC'97*	48-LQFP	7.98	6.39	5.39
AD1885JST	AD1885JST-ND	Audio Codec AC'97	48-LQFP	8.78	7.03	5.93
AD1980JST	AD1980JST-ND	Codec Stereo 6DAC 20-Bit	48-LQFP	7.60	6.08	5.13
AD1980JSTZ	AD1980JSTZ-ND	Codec Stereo 6DAC 20-Bit*	48-LQFP	7.60	6.08	5.13
AD1981BJST	AD1981BJST-ND	Codec Stereo Micropreamp	48-LQFP	7.94	6.36	5.36
AD1981BJSTZ	AD1981BJSTZ-ND	Codec Stereo Micropreamp*	48-LQFP	7.94	6.36	5.36
AD1981BJST-REEL	AD1981BJST-REELCT-ND	Codec Stereo Micropreamp	48-LQFP	8.24	6.60	5.57
AD1981BJST-REEL	AD1981BJST-REELTR-ND	Codec Stereo Micropreamp	48-LQFP	10300.00/2,000		
AD1985JST	AD1985JST-ND	Codec Stereo 6DAC 20-Bit	48-LQFP	7.60	6.08	5.13
AD74111YRU	AD74111YRU-ND	Codec Mono Audio Low Power	16-TSSOP	5.88	4.71	3.97
ADAV801ASTZ	ADAV801ASTZ-ND	Audio Codec for Recordable DVD*	64-LQFP	15.36	14.34	13.32
ADAV803ASTZ	ADAV803ASTZ-ND	Audio Codec for Recordable DVD*	64-LQFP	15.36	14.34	13.32
ADV601JS12	ADV601JS12-ND	Codec Video 32-Bit	160-MQFP	65.73	61.35	56.97
ADV611JST	ADV611JST-ND	Codec Digital CCTV	120-LQFP	59.28	55.33	51.38
ADV611JSTZ	ADV611JSTZ-ND	Codec Digital CCTV* ***NEW!***	120-LQFP	59.28	55.33	51.38
ADV7202KST	ADV7202KST-ND	Codec Video 10-Bit	64-LQFP	12.79	11.52	10.22

DAS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD974BRZ	AD974BRZ-ND	DAS 16-Bit, 4-Channel 200KSPS* ***NEW!***	28-SOIC	57.96	54.10	50.24
AD974BRS	AD974BRS-ND	DAS 16-Bit, 4-Channel 200KSPS	28-SSOP	57.96	54.10	50.24
AD974BRSZ	AD974BRSZ-ND	DAS 16-Bit, 4-Channel 200KSPS*	28-SSOP	57.96	54.10	50.24
AD7581KN	AD7581KN-ND	DAS 8-Bit, 8-Channel	28-Dip	24.45	22.82	21.19
AD7581LN	AD7581LN-ND	DAS 8-Bit, 8-Channel	28-Dip	28.38	26.49	24.60
AD7716BP	AD7716BP-ND	DAS 22-Bit LC2MOS	44-PLCC	55.64	51.93	48.22
AD7716BSZ	AD7716BSZ-ND	DAS 22-Bit LC2MOS*	44-PQFP	55.64	51.93	48.22
AD7874ANZ	AD7874ANZ-ND	DAS 12-Bit, 4-Channel LC2MOS*	28-Dip	48.06	44.86	41.66
AD7874AR	AD7874AR-ND	DAS 12-Bit, 4-Ch. LC2MOS	28-SOIC	48.06	44.86	41.66
AD7874ARZ	AD7874ARZ-ND	DAS 12-Bit, 4-Ch. LC2MOS* ***NEW!***	28-SOIC	48.06	44.86	41.66
AD7874SQ	AD7874SQ-ND	DAS 12-Bit, 4-Channel LC2MOS	28-CDip	181.32	169.24	157.15
AD7890ARZ-10	AD7890ARZ-10-ND	DAS 12-Bit*	24-SOIC	18.00	16.80	15.60
AD7890BR-10	AD7890BR-10-ND	DAS 12-Bit	24-SOIC	23.70	22.12	20.54
AD7890BRZ-10	AD7890BRZ-10-ND	DAS 12-Bit*	24-SOIC	23.70	22.12	20.54
AD7891AP-1	AD7891AP-1-ND	DAS 12-Bit, 8-Channel, HS	44-PLCC	26.25	24.50	22.75
AD7891APZ-1	AD7891APZ-1-ND	DAS 12-Bit, 8-Channel, HS*	44-PLCC	26.25	24.50	22.75
AD7891AS-1	AD7891AS-1-ND	DAS 12-Bit, 8-Channel High Speed	44-MQFP	26.25	24.50	22.75
AD7891AS-2	AD7891AS-2-ND	DAS 12-Bit, 8-Channel High Speed	44-MQFP	26.25	24.50	22.75
AD7891ASZ-1	AD7891ASZ-1-ND	DAS 12-Bit, 8-Channel High Speed*	44-MQFP	26.25	24.50	22.75
AD7891YP-1	AD7891YP-1-ND	DAS 12-Bit, 8-Channel High Speed	44-PLCC	56.40	52.64	48.88

Modem Applications

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9860BST	AD9860BST-ND	Front-End Mixed-Signal	128-LQFP	24.26	22.64	21.03
AD9861BCP-50	AD9861BCP-50-ND	Front-End Mixed-Signal	64-LFCSP	18.90	17.64	16.38
AD9861BCPZ-50	AD9861BCPZ-50-ND	Front-End Mixed-Signal*	64-LFCSP	18.90	17.64	16.38
AD9861BCP-80	AD9861BCP-80-ND	Front-End Mixed-Signal	64-LFCSP	23.90	22.31	20.71
AD9862BST	AD9862BST-ND	Front-End Mixed-Signal	128-LQFP	52.50	49.00	45.50
AD9862BSTZ	AD9862BSTZ-ND	Front-End Mixed-Signal*	128-LQFP	52.50	49.00	45.50
AD9863BCP-50	AD9863BCP-50-ND	Front-End Mixed-Signal	64-LFCSP	37.80	35.28	32.76
AD9863BCPZ-50	AD9863BCPZ-50-ND	Front-End Mixed-Signal*	64-LFCSP	37.80	35.28	32.76
AD9865BCP	AD9865BCP-ND	Front-End Mixed-Signal	64-LFCSP	17.57	16.40	15.23
AD9866BCP	AD9866BCP-ND	Front-End Mixed-Signal	64-LFCSP	32.75	30.57	28.38
AD9878BST	AD9878BST-ND	Front-End Mixed-Signal	100-LQFP	20.52	19.16	17.79
AD9879BS	AD9879BS-ND	Front-End Mixed-Signal	100-MQFP	18.18	16.97	15.76
AD9975BST	AD9975BST-ND	Front-End Mixed-Signal	48-LQFP	16.32	15.24	14.15

ANALOG DEVICES

DATA CONVERSION

Analog-to-Digital

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD570JD	AD570JD-ND	ADC 8-Bit Mono with Clock	18-Dip	55.34	51.65	47.96
AD573JNZ	AD573JNZ-ND	ADC 10-Bit SAR Register* ***NEW!***	20-Dip	33.21	31.00	28.79
AD573JP	AD573JP-ND	ADC 10-Bit SAR Register	20-PLCC	33.21	31.00	28.79
AD574AJD	AD574AJD-ND	ADC 12-Bit with Reference	28-Dip	40.86	38.14	35.42
AD574AJNZ	AD574AJNZ-ND	ADC 12-Bit with Reference* ***NEW!***	28-Dip	30.32	28.30	26.28
AD574AJP	AD574AJP-ND	ADC 12-Bit with Reference	28-PLCC	31.80	29.68	27.56
AD574AKD	AD574AKD-ND	ADC 12-Bit with Reference	28-Dip	53.54	49.97	46.40
AD574AKNZ	AD574AKNZ-ND	ADC 12-Bit with Reference* ***NEW!***	28-Dip	40.13	37.45	34.78
AD574AKP	AD574AKP-ND	ADC 12-Bit with Reference	28-PLCC	35.57	33.20	30.83
AD574ASD	AD574ASD-ND	ADC 12-Bit with Reference	28-CDip	130.13	121.45	112.78
AD574AUD	AD574AUD-ND	ADC 12-Bit with Reference	28-Dip	244.05	227.78	211.51
AD670JNZ	AD670JNZ-ND	ADC 8-Bit Signal Condition*	20-Dip	15.62	14.58	13.54
AD673JD	AD673JD-ND	ADC 8-Bit with Ref./Clock/Comparator	20-Dip	31.74	29.63	27.51
AD673JN	AD673JN-ND	ADC 8-Bit with Ref./Clock/Comparator	20-Dip	15.62	14.58	13.54
AD674BAD	AD674BAD-ND	ADC 12-Bit Mono 3-Output	28-Dip	45.54	42.51	39.47
AD674BBR	AD674BBR-ND	ADC 12-Bit Mono 3-Output	28-SOIC	57.83	53.97	50.12
AD674BBRZ	AD674BBRZ-ND	ADC 12-Bit Mono 3-Output*	28-SOIC	57.83	53.97	50.12
AD676BD	AD676BD-ND	ADC 16-Bit, 100KSPS	28-Dip	103.46	96.56	89.67
AD676JN	AD676JN-ND	ADC 16-Bit, 100KSPS	28-Dip	52.50	49.00	45.50
AD676KD	AD676KD-ND	ADC 16-Bit, 100KSPS	28-Dip	82.77	77.26	71.74
AD677AD	AD677AD-ND	ADC 16-Bit, 100KSPS	16-Dip	81.05	75.65	70.24
AD677JN	AD677JN-ND	ADC 16-Bit, 100KSPS	16-Dip	48.68	45.43	42.19
AD677JNZ	AD677JNZ-ND	ADC 16-Bit, 100KSPS*	16-Dip	48.68	45.43	42.19
AD677JR	AD677JR-ND	ADC 16-Bit, 100KSPS	28-SOIC	48.68	45.43	42.19
AD677JRZ	AD677JRZ-ND	ADC 16-Bit, 100KSPS*	28-SOIC	64.90	51.92	43.81
AD677KN	AD677KN-ND	ADC 16-Bit, 100KSPS	16-Dip	57.26	53.44	49.63
AD677KR	AD677KR-ND	ADC 16-Bit, 100KSPS	28-SOIC	57.26	53.44	49.63
AD677KRZ	AD677KRZ-ND	ADC 16-Bit, 100KSPS*	28-SOIC	57.26	53.44	49.63
AD678AJ	AD678AJ-ND	ADC 12-Bit, 200KSPS	44-JLCC	103.71	96.80	89.89
AD678BD	AD678BD-ND	ADC 12-Bit, 200KSPS	28-Dip	105.18	98.17	91.16
AD678JN	AD678JN-ND	ADC 12-Bit, 200KSPS	28-Dip	48.23	45.01	41.80
AD678JNZ	AD678JNZ-ND	ADC 12-Bit, 200KSPS* ***NEW!***	28-Dip	48.23	45.01	41.80
AD679JNZ	AD679JNZ-ND	ADC 14-Bit, 128KSPS* ***NEW!***	28-Dip	53.04	49.51	45.97
AD779KD	AD779KD-ND	ADC 14-Bit Sampling	28-CDip	88.70	82.79	76.87
AD872AJD	AD872AJD-ND	ADC 12-Bit, 10MSPS	28-CDip	234.14	218.53	202.92
AD876JR	AD876JR-ND	ADC CMOS 10-Bit, 20MSPS	28-SOIC	7.40	5.92	5.00
AD976AAN	AD976AAN-ND	ADC 16-Bit, 200KSPS	28-Dip	45.89	42.83	39.77
AD976AANZ	AD976AANZ-ND	ADC 16-Bit, 200KSPS* ***NEW!***	28-Dip	45.89	42.83	39.77
AD976AAR	AD976AAR-ND	ADC 16-Bit, 200KSPS	28-SOIC	45.89	42.83	39.77
AD976AARZ	AD976AARZ-ND	ADC 16-Bit, 200KSPS*	28-SOIC	45.89	42.83	39.77
AD976ABN	AD976ABN-ND	ADC 16-Bit, 200KSPS	28-Dip	57.36	53.54	49.72
AD976ABNZ	AD976ABNZ-ND	ADC 16-Bit, 200KSPS* ***NEW!***	28-Dip	57.36	53.54	49.72
AD976ABRSZ	AD976ABRSZ-ND	ADC 16-Bit, 200KSPS* ***NEW!***	28-SSOP	57.36	53.54	49.72
AD976ABRZ	AD976ABRZ-ND	ADC 16-Bit, 200KSPS*	28-SOIC	57.36	53.54	49.72
AD976ANZ	AD976ANZ-ND	ADC 16-Bit, 100KSPS*	28-Dip	36.71	34.26	31.82
AD976AR	AD976AR-ND	ADC 16-Bit, 100KSPS	28-SOIC	36.71	34.26	31.82
AD976ARZ	AD976ARZ-ND	ADC 16-Bit, 100KSPS*	28-SOIC	36.71	34.26	31.82
AD976ARS	AD976ARS-ND	ADC 16-Bit, 200KSPS	28-SSOP	36.71	34.26	31.82
AD976ARSZ	AD976ARSZ-ND	ADC 16-Bit, 200KSPS*	28-SSOP	36.71	34.26	31.82
AD976BR	AD976BR-ND	ADC 16-Bit, 100KSPS	28-SOIC	45.89	42.83	39.77
AD976BRZ	AD976BRZ-ND	ADC 16-Bit, 100KSPS*	28-SOIC	45.89	42.83	39.77
AD976CN	AD976CN-ND	ADC 16-Bit, 100KSPS	28-Dip	28.19	26.31	24.43
AD977AAR	AD977AAR-ND	ADC 16-Bit, 200KSPS	20-SOIC	45.89	42.83	39.77
AD977AARSZ	AD977AARSZ-ND	ADC 16-Bit, 200KSPS*	28-SSOP	45.89	42.83	39.77
AD977ABN	AD977ABN-ND	ADC 16-Bit, 200KSPS	20-Dip	57.36	53.54	49.72
AD977ABR	AD977ABR-ND	ADC 16-Bit, 200KSPS	20-SOIC	57.36	53.54	49.72
AD977ABRZ	AD977ABRZ-ND	ADC 16-Bit, 200KSPS*	20-SOIC	57.36	53.54	49.72
AD977ABRSZ	AD977ABRSZ-ND	ADC 16-Bit, 200KSPS* ***NEW!***	28-SSOP	57.36	53.54	49.72
AD977ANZ	AD977ANZ-ND	ADC 16-Bit, 100KSPS* ***NEW!***	20-Dip	36.71	34.26	31.82
AD977AR	AD977AR-ND	ADC 16-Bit, 100KSPS	20-SOIC	36.71	34.26	31.82
AD977ARZ	AD977ARZ-ND	ADC 16-Bit, 100KSPS*	20-SOIC	36.71	34.26	31.82
AD977BR	AD977BR-ND	ADC 16-Bit, 100KSPS	20-SOIC	45.89	42.83	39.77
AD977CNZ	AD977CNZ-ND	ADC 16-Bit, 100KSPS* ***NEW!***	20-Dip	28.19	26.31	24.43
AD1376KD	AD1376KD-ND	ADC Single 16-Bit	32-Dip	375.00	350.00	325.00
AD1377JD	AD1377JD-ND	ADC Single 16-Bit	32-Dip	420.69	392.65	364.60
AD1377KD	AD1377KD-ND	ADC Single 16-Bit	32-Dip	525.87	490.82	455.76
AD1671JP	AD1671JP-ND	ADC Single 12-Bit	28-PLCC	53.22	49.68	46.13
AD1674AR	AD1674AR-ND	ADC 12-Bit, 100KSPS	28-SOIC	25.47	23.78	22.08
AD1674ARZ	AD1674ARZ-ND	ADC 12-Bit, 100KSPS*	28-SOIC	25.47	23.78	22.08
AD1674BD	AD1674BD-ND	ADC 12-Bit, 100KSPS	28-Dip	57.02	53.22	49.42
AD1674BRZ	AD1674BRZ-ND	ADC 12-Bit, 100KSPS*	28-SOIC	35.34	32.99	30.63
AD1674JN	AD1674JN-ND	ADC 12-Bit, 100KSPS	28-Dip	21.83	20.37	18.92
AD1674JNZ	AD1674JNZ-ND	ADC 12-Bit, 100KSPS*	28-Dip	21.83	20.37	18.92
AD1674JRZ	AD1674JRZ-ND	ADC 12-Bit, 100KSPS*	28-SOIC	21.83	20.37	18.92
AD1674KN	AD1674KN-ND	ADC 12-Bit, 100KSPS	28-Dip	30.54	28.51	26.47
AD1674KNZ	AD1674KNZ-ND	ADC 12-Bit, 100KSPS*	28-Dip	30.54	28.51	26.47
AD1674KR	AD1674KR-ND	ADC 12-Bit, 100KSPS	28-SOIC	30.54	28.51	26.47
AD1674KRZ	AD1674KRZ-ND	ADC 12-Bit, 100KSPS*	28-SOIC	30.54	28.51	26.47
AD1674TD	AD1674TD-ND	ADC 12-Bit, 100KSPS	28-Dip	106.94	99.81	92.68
AD1871YRSZ	AD1871YRSZ-ND	ADC Stereo Audio 24-Bit* ***NEW!***	28-SSOP	9.38	8.45	7.49
AD1877JRZ	AD1877JRZ-ND	ADC Stereo 16-Bit* ***NEW!***	28-SOIC	12.03	10.83	9.61
AD6640AST	AD6640AST-ND	ADC 12-Bit, 65MSPS	44-LQFP	49.80	46.48	43.16
AD6644AST-40	AD6644AST-40-ND	ADC 14-Bit, 40MSPS	52-LQFP	51.30	47.88	44.46
AD6644ASTZ-40	AD6644ASTZ-40-ND	ADC 14-Bit, 40MSPS* ***NEW!***	52-LQFP	51.30	47.88	44.46
AD6644AST-65	AD6644AST-65-ND	ADC 14-Bit, 65MSPS	52-LQFP	68.85	64.26	59.67
AD6644ASTZ-65	AD6644ASTZ-65-ND	ADC 14-Bit, 65MSPS* ***NEW!***	52-LQFP	68.85	64.26	59.67
AD6645ASQ-80	AD6645ASQ-80-ND	ADC 14-Bit, 80MSPS	52-LQFP-PQ4	77.12	71.98	66.84
AD6645ASQZ-80	AD6645ASQZ-80-ND	ADC 14-Bit, 80MSPS* ***NEW!***	52-LQFP-PQ4	77.12	71.98	66.84
AD6645-80/PCB	AD6645-80/PCB-ND	Evaluation Board ADC 80MSPS AD6645	—	225.00	—	—
AD6645ASQ-105	AD6645ASQ-105-ND	ADC 14-Bit, 105MSPS	52-LQFP-PQ4	98.82	92.24	85.65
AD6645-105/PCB	AD6645-105/PCB-ND	Evaluation Board ADC 105MSPS AD6645	—	258.00	—	—
AD7321BRUZ	AD7321BRUZ-ND	ADC 500KSPS, 2-Ch., Software Selectable, True Bipolar In, 12-Bit+* ***NEW!***	14-TSSOP	7.06	5.65	4.77
AD7322BRUZ	AD7322BRUZ-ND	ADC 2-Ch., Software Selectable, True Bipolar In, 1MSPS, 12-Bit+* ***NEW!***	14-TSSOP	9.31	8.39	7.44

* ***RoHS Compliant***

(Continued)

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7323BRUZ	AD7323BRUZ-ND	ADC 500KSPS, 4-Ch., Software Selectable, True Bipolar In, 12-Bit+* ***NEW!***	16-TSSOP	8.52	6.82	5.76
AD7324BRUZ	AD7324BRUZ-ND	ADC 4-Ch., Software Selectable, True Bipolar In, 12-Bit+* ***NEW!***	16-TSSOP	11.26	10.14	9.00
AD7327BRUZ	AD7327BRUZ-ND	ADC 500KSPS, 8-Ch., Software Selectable, True Bipolar In, 12-Bit+* ***NEW!***	20-TSSOP	9.28	7.43	6.27
AD7328BRUZ	AD7328BRUZ-ND	ADC 8-Ch., Software Selectable, True Bipolar In, 12-Bit+* ***NEW!***	20-TSSOP	12.25	11.03	9.78
AD7440BRM	AD7440BRM-ND	ADC 10-Bit Differential-In 1MSPS	8-MSOP	5.88	4.71	3.97
AD7440BRT-R2	AD7440BRT-R2CT-ND	ADC 10-Bit Diff.-In 1MSPS	SOT-23-8	5.88	4.71	3.97
AD7440BRT-R2	AD7440BRT-R2TR-ND	ADC 10-Bit Diff.-In 1MSPS	SOT-23-8	955.50/250		
AD7440BRTZ-R2	AD7440BRTZ-R2CT-ND	ADC 10-Bit Diff.-In 1MSPS*	SOT-23-8	5.88	4.71	3.97
AD7440BRTZ-R2	AD7440BRTZ-R2TR-ND	ADC 10-Bit Diff.-In 1MSPS*	SOT-23-8	955.50/250		
AD7441BRM	AD7441BRM-ND	ADC 10-Bit PSDO-In 1MSPS	8-MSOP	5.88	4.71	3.97
AD7441BRT-R2	AD7441BRT-R2TR-ND	ADC 10-Bit PSDO-In 1MSPS	SOT-23-8	955.50/250		
AD7450ABRM	AD7450ABRM-ND	ADC 12-Bit Differential-In 1MSPS	8-MSOP	8.53	7.68	6.81
AD7450ABRT-R2	AD7450ABRT-R2CT-ND	ADC 12-Bit Differential-In 1MSPS	SOT-23-8	8.53	7.68	6.81
AD7450ABRT-R2	AD7450ABRT-R2TR-ND	ADC 12-Bit Differential-In 1MSPS	SOT-23-8	1632.00/250		
AD7450AR	AD7450AR-ND	ADC 12-Bit Differential-In 1MSPS	8-SOIC	9.42	7.54	6.36
AD7450ARM	AD7450ARM-ND	ADC 12-Bit Differential-In 1MSPS	8-MSOP	9.42	7.54	6.36
AD7450BRM	AD7450BRM-ND	ADC 12-Bit Differential-In 1MSPS	8-MSOP	8.53	7.68	6.81
AD7450BR	AD7450BR-ND	ADC 12-Bit Differential-In 1MSPS	8-SOIC	8.53	7.68	6.81
AD7451ARM	AD7451ARM-ND	ADC 12-Bit PSDO-In 1MSPS	8-MSOP	8.33	7.50	6.65
AD7451ART-R2	AD7451ART-R2CT-ND	ADC 12-Bit PSDO-In 1MSPS	SOT-23-8	8.33	7.50	6.65
AD7451ART-R2	AD7451ART-R2TR-ND	ADC 12-Bit PSDO-In 1MSPS	SOT-23-8	1593.75/250		
AD7451BRM	AD7451BRM-ND	ADC 12-Bit PSDO-In 1MSPS	8-MSOP	8.91	8.03	7.12
AD7451BRT-R2	AD7451BRT-R2CT-ND	ADC 12-Bit PSDO-In 1MSPS	SOT-23-8	8.91	8.03	7.12
AD7451BRT-R2	AD7451BRT-R2TR-ND	ADC 12-Bit PSDO-In 1MSPS	SOT-23-8	1705.25/250		
AD7452BRT-R2	AD7452BRT-R2CT-ND	ADC 12-Bit, 555KSPS	SOT-23-8	6.94	5.56	4.69
AD7452BRT-R2	AD7452BRT-R2TR-ND	ADC 12-Bit, 555KSPS	SOT-23-8	1127.75/250		
AD7453BRT-R2	AD7453BRT-R2CT-ND	ADC 12-Bit, 555KSPS	SOT-23-8	6.94	5.56	4.69
AD7453BRT-R2	AD7453BRT-R2TR-ND	ADC 12-Bit, 555KSPS	SOT-23-8	1127.75/250		
AD7453BRTZ-R2	AD7453BRTZ-R2CT-ND	ADC 12-Bit, 555KSPS*	SOT-23-8	6.94	5.56	4.69
AD7453BRTZ-R2	AD7453BRTZ-R2TR-ND	ADC 12-Bit, 555KSPS*	SOT-23-8	1127.75/250		
AD7457BRT-REEL7	AD7457BRT-REEL7TR-ND	ADC 12-Bit, 100KSPS	SOT-23-8	7749.00/3,000		
AD7457BRTZ-REEL7	AD7457BRTZ-REEL7CT-ND	ADC 12-Bit, 100KSPS*	SOT-23-8	4.61	3.69	2.87
AD7457BRTZ-REEL7	AD7457BRTZ-REEL7TR-ND	ADC 12-Bit, 100KSPS*	SOT-23-8	7749.00/3,000		
AD7466BRM	AD7466BRM-ND	ADC 12-Bit Micropower 1.6V	8-MSOP	5.52	4.42	3.73
AD7466BRMZ	AD7466BRMZ-ND	ADC 12-Bit Micropower 1.6V*	8-MSOP	5.52	4.42	3.73
AD7466BRT-R2	AD7466BRT-R2CT-ND	ADC 12-Bit Micropower 1.6V	SOT-23-6	5.52	4.42	3.73
AD7466BRT-R2	AD7466BRT-R2TR-ND	ADC 12-Bit Micropower 1.6V	SOT-23-6	897.00/250		
AD7466BRTZ-REEL7	AD7466BRTZREEL7CT-ND	ADC 12-Bit Micropower 1.6V*	SOT-23-6	5.29	4.23	3.29
AD7466BRTZ-REEL7	AD7466BRTZREEL7TR-ND	ADC 12-Bit Micropower 1.6V*	SOT-23-6	8883.00/3,000		
AD7467BRM	AD7467BRM-ND	ADC 10-Bit Micropower 1.6V	8-MSOP	5.04	4.04	3.14
AD7467BRT-R2	AD7467BRT-R2CT-ND	ADC 10-Bit Micropower 1.6V	SOT-23-6	5.04	4.04	3.14
AD7467BRT-R2	AD7467BRT-R2TR-ND	ADC 10-Bit Micropower 1.6V	SOT-23-6	744.75/250		
AD7468BRM	AD7468BRM-ND	ADC 8-Bit Micropower 1.6V	8-MSOP	3.04	2.43	1.89
AD7468BRMZ	AD7468BRMZ-ND	ADC 8-Bit Micropower 1.6V*	8-MSOP	3.04	2.43	1.89
AD7468BRT-R2	AD7468BRT-R2CT-ND	ADC 8-Bit Micropower 1.6V	SOT-23-6	3.04	2.43	1.89
AD7468BRT-R2	AD7468BRT-R2TR-ND	ADC 8-Bit Micropower 1.6V	SOT-23-6	449.00/250		
AD7468BRTZ-REEL7	AD7468BRTZREEL7CT-ND	ADC 8-Bit Micropower 1.6V*	SOT-23-6	2.59	2.07	1.61
AD7468BRTZ-REEL7	AD7468BRTZREEL7TR-ND	ADC 8-Bit Micropower 1.6V*	SOT-23-6	4347.00/3,000		
AD7470ARU	AD7470ARU-ND	ADC 10-Bit, 1.75MSPS	24-TSSOP	7.06	5.65	4.77
AD7470ARUZ	AD7470ARUZ-ND	ADC 10-Bit, 1.75MSPS*	24-TSSOP	7.06	5.65	4.77
AD7475BR	AD7475BR-ND	ADC 12-Bit, 1MSPS	8-SOIC	9.60	8.64	7.67
AD7475BRM	AD7475BRM-ND	ADC 12-Bit, 1MSPS	8-MSOP	9.80	8.82	7.83
AD7476ABKSZ-REEL7	AD7476ABKSZREELCT-ND	ADC 12-Bit, 2.35V, 1MSPS*	SC70-6	8.33	7.50	6.65
AD7476ABKSZ-REEL7	AD7476ABKSZREELTR-ND	ADC 12-Bit, 2.35V, 1MSPS*	SC70-6	18225.00/3,000		
AD7476ABRM	AD7476ABRM-ND	ADC 12-Bit, 2.35V, 1MSPS	8-MSOP	8.81	7.94	7.04
AD7476ABRMZ	AD7476ABRMZ-ND	ADC 12-Bit, 2.35V, 1MSPS*	8-MSOP	8.81	7.94	7.04
AD7476ART-500RL7	AD7476ART500RL7CT-ND	ADC 12-Bit, 2.35V, 1MSPS	SOT-23-6	8.42	6.74	5.69
AD7476ARTZ-500RL7	AD7476ARTZ-500RL7CT-ND	ADC 12-Bit, 2.35V, 1MSPS* ***NEW!***	SOT-23-6	8.42	6.74	5.69
AD7476ARTZ-500RL7	AD7476ARTZ-500RL7TR-ND	ADC 12-Bit, 2.35V, 1MSPS* ***NEW!***	SOT-23-6	2673.50/500		
AD7476AYRM	AD7476AYRM-ND	ADC 12-Bit, 2.35V, 1MSPS	8-MSOP	11.76	10.59	9.39
AD7476AYRMZ	AD7476AYRMZ-ND	ADC 12-Bit, 2.35V, 1MSPS*	8-MSOP	11.76	10.59	9.39
AD7477AARM	AD7477AARM-ND	ADC 10-Bit, 2.35V, 1MSPS	8-MSOP	5.88	4.71	3.97
AD7477AARMZ	AD7477AARMZ-ND	ADC 10-Bit, 2.35V, 1MSPS*	8-MSOP	5.88	4.71	3.97
AD7477ARTZ-500RL7	AD7477ARTZ500RLCT-ND	ADC 10-Bit, 2.35V, 1MSPS*	SOT-23-6	5.50	4.40	3.72
AD7477ARTZ-500RL7	AD7477ARTZ500RLTR-ND	ADC 10-Bit, 2.35V, 1MSPS*	SOT-23-6	1746.50/500		
AD7478AARM	AD7478AARM-ND	ADC 8-Bit, 2.35V, 1MSPS	8-MSOP	2.52	2.02	1.57
AD7478AARMZ	AD7478AARMZ-ND	ADC 8-Bit, 2.35V, 1MSPS*	8-MSOP	2.52	2.02	1.57
AD7478ART-500RL7	AD7478ART500RL7CT-ND	ADC 8-Bit, 2.35V, 1MSPS	SOT-23-6	2.70	2.16	1.68
AD7478ART-500RL7	AD7478ART500RL7TR-ND	ADC 8-Bit, 2.35V, 1MSPS	SOT-23-6	780.00/500		
AD7478ARTZ-REEL7	AD7478ARTZREEL7CT-ND	ADC 8-Bit, 2.35V, 1MSPS*	SOT-23-6	2.38	1.90	1.43
AD7478ARTZ-REEL7	AD7478ARTZREEL7TR-ND	ADC 8-Bit, 2.35V, 1MSPS*	SOT-23-6	3648.00/3,000		
AD7482AST	AD7482AST-ND	ADC 12-Bit SAR 3MSPS	48-LQFP	13.63	12.27	10.88
AD7482BST	AD7482BST-ND	ADC 12-Bit SAR 3MSPS	48-LQFP	16.34	14.72	13.05
AD7482BSTZ	AD7482BSTZ-ND	ADC 12-Bit SAR 3MSPS*	48-LQFP	16.34	14.72	13.05
AD7484BST	AD7484BST-ND	ADC 14-Bit SAR 3MSPS	48-LQFP	21.18	19.77	18.36
AD7484BSTZ	AD7484BSTZ-ND	ADC 14-Bit SAR 3MSPS*	48-LQFP	21.18	19.77	18.36
AD7485BST	AD7485BST-ND	ADC 14-Bit SAR 1MSPS	48-LQFP	15.89	14.83	13.77
AD7490BCP	AD7490BCP-ND	ADC 12-Bit, 16-Channel, 1MSPS	32-LFCSP	11.66	10.50	9.31
AD7490BCPZ	AD7490BCPZ-ND	ADC 12-Bit, 16-Channel, 1MSPS* ***NEW!***	32-LFCSP	11.66	10.50	9.31
AD7490BRUZ	AD7490BRUZ-ND	ADC 12-Bit, 16-Channel, 1MSPS*	28-TSSOP	11.66	10.50	9.31
AD7572AJN10	AD7572AJN10-ND	ADC 12-Bit High Speed LC2MOS	24-Dip	18.06	16.86	15.66
AD7572AQ05	AD7572AQ05-ND	ADC 12-Bit High Speed LC2MOS	24-CDip	63.12	58.92	54.71
AD7574JN	AD7574JN-ND	ADC 8-Bit CMOS 5V	18-Dip	11.83	10.65	9.45
AD7574JNZ	AD7574JNZ-ND	ADC 8-Bit CMOS 5V*	18-Dip	11.83	10.65	9.45
AD7575JP	AD7575JP-ND	ADC 8-Bit LC2MOS with Hold	20-PLCC	9.03	8.13	7.21
AD7578KN	AD7578KN-ND	ADC 12-Bit Low Power	24-Dip	28.32	26.44	24.55
AD7578KNZ	AD7578KNZ-ND	ADC 12-Bit Low Power*	24-Dip	28.32	26.44	24.55
AD7582KN	AD7582KN-ND	ADC 12-Bit	28-Dip	33.87	31.62	29.36
AD7582KNZ	AD7582KNZ-ND	ADC 12-Bit*	28-Dip	33.87	31.62	29.36
AD7641BCPZ	AD7641BCPZ-ND	ADC 18-Bit, SAR 2MSPS* ***NEW!***	48-LFCSP	54.68	51.03	47.39
AD7641BSTZ	AD7641BSTZ-ND	ADC 18-Bit, SAR 2MSPS* ***NEW!***	48-LFCSP	54.68	51.03	47.39
AD7650AST	AD7650AST-ND	ADC 16-Bit, 570KSPS	48-LQFP	13.83	12.45	11.04
AD7651ACP	AD7651ACP-ND	ADC 16-Bit, 100KSPS	48-LFCSP	13.73	12.36	10.96
AD7651AST	AD7651AST-ND	ADC 16-Bit, 100KSPS	48-LQFP	13.73	12.36	10.96
AD7652ACP	AD7652ACP-ND	ADC 16-Bit, 500KSPS w/Reference	48-LFCSP	15.62	14.58	13.54
AD7652AST	AD7652AST-ND	ADC 16-Bit, 500KSPS with Reference	48-LQFP	15.62	14.58	13.54
AD7653ACP	AD7653ACP-ND	ADC 16-Bit, 1MSPS with Reference	48-LFCSP	19.08	17.81	16.54
AD7653ASTZ	AD7653ASTZ-ND	ADC 16-Bit, 1MSPS with Reference*	48-LQFP	19.08	17.81	16.54
EVAL-AD7653CB	EVAL-AD7653CB-ND	Evaluation Board for AD7653 ***NEW!***	—	168.75	—	—
AD7654ACP	AD7654ACP-ND	ADC 16-Bit, 500KSPS Dual	48-LFCSP	25.59	23.89	22.18
AD7654ASTZ	AD7654ASTZ-ND	ADC 16-Bit, 500KSPS Dual* ***NEW!***	48-LQFP	25.59	23.89	22.18
AD7655ACP	AD7655ACP-ND	ADC 16-Bit, 1MSPS Quad	48-LFCSP	15.68	14.63	13.59
AD7655ACPZ	AD7655ACPZ-ND	ADC 16-Bit, 1MSPS Quad* ***NEW!***	48-LFCSP	15.68	14.63	13.59
AD7655ASTZ	AD7655ASTZ-ND	ADC 16-Bit, 1MSPS Quad*	48-LQFP	15.68	14.63	13.59
AD7660AST	AD7660AST-ND	ADC 16-Bit Unipolar	48-LQFP	15.66	14.10	12.51
AD7661ACP	AD7661ACP-ND	ADC 16-Bit with Reference	48-LFCSP	16.48	14.84	13.16
AD7661AST	AD7661AST-ND	ADC 16-Bit with Reference	48-LQFP	16.48	14.84	13.16
AD7663ASTZ	AD7663ASTZ-ND	ADC 16-Bit, 250KSPS* ***NEW!***	48-LQFP	19.92	18.60	17.27
AD7664ASTZ	AD7664ASTZ-ND	ADC 16-Bit Unipolar*	48-LQFP	30.95	28.89	26.82
AD7665ASTZ	AD7665ASTZ-ND	ADC 16-Bit CMOS 5V* ***NEW!***	48-LQFP	31.52	29.42	27.32
AD7665ASTZRL	AD7665ASTZRLCT-ND	ADC 16-Bit CMOS 5V*	48-LQFP	31.52	29.42	27.32
AD7665ASTZRL	AD7665ASTZRLTR-ND	ADC 16-Bit CMOS 5V*	48-LQFP	51894.00/2,000		
AD7666ACP	AD7666ACP-ND	ADC 16-Bit, 500KSPS Unipolar	48-LFCSP	29.87	27.88	25.89
AD7666AST	AD7666AST-ND	ADC 16-Bit, 500KSPS Unipolar	48-LQFP	29.87	27.88	25.89
AD7667ACP	AD7667ACP-ND	ADC 16-Bit, 1MSPS Unipolar	48-LFCSP	39.00	36.40	33.80
AD7667AST	AD7667AST-ND	ADC 16-Bit, 1MSPS Unipolar	48-LQFP	39.00	36.40	33.80
AD7667ASTZ	AD7667ASTZ-ND	ADC 16-Bit, 1MSPS Unipolar* ***NEW!***	48-LQFP	39.00	36.40	33.80
EVAL-AD7667CB	EVAL-AD7667CB-ND	Evaluation Board for AD7667 ***NEW!***	—	168.75	—	—
AD7671ASTZ	AD7671ASTZ-ND	ADC 16-Bit CMOS 1MSPS*	48-LQFP	46.38	43.29	40.20
AD7674ACP	AD7674ACP-ND	ADC 18-Bit, 800KSPS	48-LFCSP	46.38	43.29	40.20
AD7674AST	AD7674AST-ND	ADC 18-Bit, 800KSPS	48-LQFP	46.38	43.29	40.20
AD7674ASTZ	AD7674ASTZ-ND	ADC 18-Bit, 800KSPS*	48-LQFP	46.38	43.29	40.20
AD7676ASTZ	AD7676ASTZ-ND	ADC 16-Bit, 500KSPS Diff.*	48-LQFP	41.40	38.64	35.88
AD7677AST	AD7677AST-ND	ADC 16-Bit, 1MSPS Differential	48-LQFP	54.68	51.03	47.39
AD7677ASTZ	AD7677ASTZ-ND	ADC 16-Bit, 1MSPS Differential*	48-LQFP	54.68	51.03	47.39
AD7678ACP	AD7678ACP-ND	ADC 18-Bit, 100KSPS	48-LFCSP	31.86	29.74	27.62
AD7678ASTZ	AD7678ASTZ-ND	ADC 18-Bit, 100KSPS* ***NEW!***	48-LQFP	31.86	29.74	27.62
AD7679ACP	AD7679ACP-ND	ADC 18-Bit, 570KSPS	48-LFCSP	42.48	39.65	36.82
AD7679ASTZ	AD7679ASTZ-ND	ADC 18-Bit, 570KSPS*	48-LQFP	42.48	39.65	36.82
EVAL-AD7679CB	EVAL-AD7679CB-ND	Evaluation Board for AD7679	—	149.63	—	—
AD7680BRM	AD7680BRM-ND	ADC 16-Bit, 100KSPS	8-MSOP	11.06	9.96	8.84
AD7680BRMZ	AD7680BRMZ-ND	ADC 16-Bit, 100KSPS*	8-MSOP	11.06	9.96	8.84
AD7683BRMZ	AD7683BRMZ-ND	ADC 16-Bit, 100KSPS*	8-MSOP	11.98	10.79	9.57
AD7684BRM	AD7684BRM-ND	ADC 16-Bit, 100KSPS	8-MSOP	11.98	10.79	9.57
AD7685ARM	AD7685ARM-ND	ADC 16-Bit, 250KSPS	10-MSOP	11.98	10.79	9.57
AD7685BRM	AD7685BRM-ND	ADC 16-Bit, 250KSPS	10-MSOP	14.69	13.28	11.78
AD7685BRMZ	AD7685BRMZ-ND	ADC 16-Bit, 250KSPS*	10-MSOP	14.74	13.28	11.78
AD7685BRMRL7	AD7685BRMRL7TR-ND	ADC 16-Bit, 250KSPS	10-MSOP	10930.00/1,000		
AD7688BRMZ	AD7688BRMZ-ND	ADC 16-Bit, 500KSPS PulSAR™ Differential* ***NEW!***	10-MSOP	24.81	23.16	21.51
AD7701ANZ	AD7701ANZ-ND	ADC 16-Bit LC2MOS*	20-Dip	20.13	18.79	17.45
AD7701AR	AD7701AR-ND	ADC 16-Bit LC2MOS	20-SOIC	20.13	18.79	17.45
AD7701BN	AD7701BN-ND	ADC 16-Bit LC2MOS	20-Dip	26.84	25.05	23.26
AD7701BNZ	AD7701BNZ-ND	ADC 16-Bit LC2MOS* ***NEW!***	20-Dip	26.84	25.05	23.26
AD7703AN	AD7703AN-ND	ADC 20-Bit LC2MOS	20-Dip	23.87	22.28	20.69
AD7703AR	AD7703AR-ND	ADC 20-Bit LC2MOS	20-SOIC	23.87	22.28	20.69
AD7703ARZ	AD7703ARZ-ND	ADC 20-Bit LC2MOS* ***NEW!***	20-SOIC	23.87	22.28	20.69
AD7703BN	AD7703BN-ND	ADC 20-Bit LC2MOS	20-Dip	28.38	26.49	24.60
AD7703BR	AD7703BR-ND	ADC 20-Bit LC2MOS	20-SOIC	28.38	26.49	24.60
AD7703CN	AD7703CN-ND	ADC 20-Bit LC2MOS	20-Dip	34.83	32.51	30.19
AD7703CR	AD7703CR-ND	ADC 20-Bit LC2MOS	20-SOIC	34.83	32.51	30.19
AD7705BNZ	AD7705BNZ-ND	ADC 16-Bit, 2-Channel*	16-Dip	9.70	7.76	6.55
AD7705BR	AD7705BR-ND	ADC 16-Bit, 2-Channel	16-SOIC	9.70	7.76	6.55
AD7705BRZ	AD7705BRZ-ND	ADC 16-Bit, 2-Channel*	16-SOIC	9.70	7.76	6.55
AD7705BRUZ	AD7705BRUZ-ND	ADC 16-Bit, 2-Channel*	16-TSSOP	9.70	7.76	6.55
AD7706BN	AD7706BN-ND	ADC 16-Bit, 3-Channel	16-Dip	9.70	7.76	6.55
AD7706BR	AD7706BR-ND	ADC 16-Bit, 3-Channel	16-SOIC	9.70	7.76	6.55
AD7706BRZ	AD7706BRZ-ND	ADC 16-Bit, 3-Channel*	16-SOIC	9.70	7.76	6.55
AD7708BRUZ	AD7708BRUZ-ND	ADC 16-Bit Rail-to-Rail 8/10-Channel*	28-TSSOP	9.36	7.49	6.32
AD7709BRU	AD7709BRU-ND	ADC 16-Bit Sigma-Delta	24-TSSOP	8.75	7.88	6.99
AD7709BRUZ	AD7709BRUZ-ND	ADC 16-Bit Sigma-Delta*	24-TSSOP	8.75	7.88	6.99
AD7710ANZ	AD7710ANZ-ND	ADC Signal Conditioning*	24-Dip	28.05	26.18	24.31
AD7710AR	AD7710AR-ND	ADC Signal Conditioning	24-SOIC	28.05	26.18	24.31
AD7710ARZ	AD7710ARZ-ND	ADC Signal Conditioning* ***NEW!***	24-SOIC	28.05	26.18	24.31
AD7711AN	AD7711AN-ND	ADC 24-Bit RTD Current Source	24-Dip	29.70	27.72	25.74
AD7711ANZ	AD7711ANZ-ND	ADC 24-Bit RTD Current Source*	24-Dip	29.70	27.72	25.74
AD7711ARZ	AD7711ARZ-ND	ADC 24-Bit RTD Current Source*	24-SOIC	29.70	27.72	25.74
AD7712ANZ	AD7712ANZ-ND	ADC Signal Conditioning LC2MOS* ***NEW!***	24-Dip	25.58	23.87	22.17
AD7712AR	AD7712AR-ND	ADC Signal Conditioning LC2MOS	24-SOIC	25.58	23.87	22.17
AD7712ARZ	AD7712ARZ-ND	ADC Signal Conditioning LC2MOS*	24-SOIC	25.58	23.87	22.17
AD7713ANZ	AD7713ANZ-ND	ADC Signal Conditioning LC2MOS* ***NEW!***	24-Dip	31.35	29.26	27.17
AD7713AR	AD7713AR-ND	ADC Signal Conditioning LC2MOS	24-SOIC	31.35	29.26	27.17
AD7713ARZ	AD7713ARZ-ND	ADC Signal Conditioning LC2MOS* ***NEW!***	24-SOIC	31.35	29.26	27.17
AD7714ANZ-5	AD7714ANZ-5-ND	ADC Signal Conditioning 5V*	24-Dip	16.56	15.46	14.36
AD7714ARS-5	AD7714ARS-5-ND	ADC Signal Conditioning 5V	28-SSOP	16.56	15.46	14.36
AD7714ARZ-5	AD7714ARZ-5-ND	ADC Signal Conditioning 5V* ***NEW!***	24-SOIC	16.56	15.46	14.36
AD7714YNZ	AD7714YNZ-ND	ADC Signal Conditioning*	24-Dip	16.23	14.61	12.96
AD7714YRU	AD7714YRU-ND	ADC Signal Conditioning 3V/5V	24-TSSOP	16.23	14.61	12.96
AD7714YRUZ	AD7714YRUZ-ND	ADC Signal Conditioning 3V/5V* ***NEW!***	24-TSSOP	16.23	14.61	12.96
AD7715ANZ-5	AD7715ANZ-5-ND	ADC 16-Bit, 5V*	16-Dip	11.08	9.98	8.85
AD7715AR-3	AD7715AR-3-ND	ADC 16-Bit, 3V	16-SOIC	11.08	9.98	8.85
AD7715ARZ-3	AD7715ARZ-3-ND	ADC 16-Bit, 3V*	16-SOIC	11.08	9.98	8.85
AD7715AR-5	AD7715AR-5-ND	ADC 16-Bit, 5V	16-SOIC	11.08	9.98	8.85
AD7715ARZ-5	AD7715ARZ-5-ND	ADC 16-Bit, 5V*	16-SOIC	11.08	9.98	8.85
AD7715AR-5REEL	AD7715AR-5REELCT-ND	ADC 16-Bit, 5V	16-SOIC	11.08	9.98	8.85
AD7715AR-5REEL	AD7715AR-5REELTR-ND	ADC 16-Bit, 5V	16-SOIC	8213.00/1,000		
AD7719BR	AD7719BR-ND	ADC 16/24-Bit Dual	28-SOIC	15.45	14.42	13.39
AD7723BSZ	AD7723BSZ-ND	ADC 16-Bit Sigma-Delta*	44-MQFP	40.59	37.89	35.18
AD7725BS	AD7725BS-ND	ADC 16-Bit Programmable	44-MQFP	30.00	28.00	26.00
AD7729ARU	AD7729ARU-ND	ADC 15-Bit Dual with DAC	28-TSSOP	15.24	13.73	12.17

* ***RoHS Compliant***

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ANALOG DEVICES

DATA CONVERSION *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
AD7730BN	AD7730BN-ND	ADC Bridge Transducer	24-Dip	17.40	16.24	15.08
AD7730BNZ	AD7730BNZ-ND	ADC Bridge Transducer*	24-Dip	17.40	16.24	15.08
AD7730BR	AD7730BR-ND	ADC Bridge Transducer	24-SOIC	17.40	16.24	15.08
AD7730BRU	AD7730BRU-ND	ADC Bridge Transducer	24-TSSOP	17.40	16.24	15.08
AD7730BRUZ	AD7730BRUZ-ND	ADC Bridge Transducer*	24-TSSOP	17.40	16.24	15.08
AD7730BRZ	AD7730BRZ-ND	ADC Bridge Transducer*	24-SOIC	17.40	16.24	15.08
EVAL-AD7730EB	EVAL-AD7730EB-ND	Evaluation Board for AD7730	—	168.75	—	—
AD7731BR	AD7731BR-ND	ADC 24-Bit	24-SOIC	17.40	16.24	15.08
AD7731BRZ	AD7731BRZ-ND	ADC 24-Bit*	24-SOIC	17.40	16.24	15.08
AD7731BRUZ	AD7731BRUZ-ND	ADC 24-Bit*	24-TSSOP	17.40	16.24	15.08
AD7732BRUZ	AD7732BRUZ-ND	ADC 24-Bit, 2-Channel*	28-TSSOP	15.00	14.00	13.00
AD7734BRUZ	AD7734BRUZ-ND	ADC 24-Bit, 4-Channel*	28-TSSOP	15.00	14.00	13.00
AD7738BRUZ	AD7738BRUZ-ND	ADC 24-Bit, 8-Channel*	28-TSSOP	15.23	13.71	12.16
AD7739BRU	AD7739BRU-ND	ADC 24-Bit, 8-Channel	24-TSSOP	14.99	13.50	11.97
AD7739BRUZ	AD7739BRUZ-ND	ADC 24-Bit, 8-Channel* ***NEW!***	24-TSSOP	14.99	13.50	11.97
AD7783BRU	AD7783BRU-ND	ADC 24-Bit, 2-Channel Rail-to-Rail	16-TSSOP	8.33	7.50	6.65
AD7788ARM	AD7788ARM-ND	ADC 16-Bit Low Power	10-MSOP	5.27	4.22	3.28
AD7788BRM	AD7788BRM-ND	ADC 16-Bit Low Power	10-MSOP	6.00	4.80	4.05
AD7788BRMZ	AD7788BRMZ-ND	ADC 16-Bit Low Power* ***NEW!***	10-MSOP	6.00	4.80	4.05
AD7789BRMZ	AD7789BRMZ-ND	ADC 24-Bit Low Power* ***NEW!***	10-MSOP	6.94	5.56	4.69
AD7790BRM	AD7790BRM-ND	ADC 16-Bit Buffered Low Power	10-MSOP	6.94	5.56	4.69
AD7790BRMZ	AD7790BRMZ-ND	ADC 16-Bit Buffered Low Power*	10-MSOP	6.94	5.56	4.69
AD7791BRMZ	AD7791BRMZ-ND	ADC 24-Bit Buffered LP* ***NEW!***	10-MSOP	9.00	7.20	6.08
AD7792BRUZ	AD7792BRUZ-ND	ADC 16-Bit, 3-Channel*	16-TSSOP	9.38	7.51	6.34
AD7793BRUZ	AD7793BRUZ-ND	ADC 24-Bit, 3-Channel*	16-TSSOP	10.00	9.00	7.98
AD7794BRUZ	AD7794BRUZ-ND	ADC 24-Bit, 6-Channel*	24-TSSOP	11.36	10.23	9.08
AD7798BRUZ	AD7798BRUZ-ND	ADC 16-Bit, 3-Channel*	16-TSSOP	8.94	7.16	6.04
EVAL-AD7798EB	EVAL-AD7798EB-ND	Evaluation Board for AD7798 ***NEW!***	—	145.13	—	—
AD7799BRUZ	AD7799BRUZ-ND	ADC 24-Bit, 3-Channel*	16-TSSOP	8.53	7.68	6.81
EVAL-AD7799EB	EVAL-AD7799EB-ND	Evaluation Board for AD7799 ***NEW!***	—	145.13	—	—
AD7810YR	AD7810YR-ND	ADC 10-Bit, 2.7V	8-SOIC	6.26	5.01	4.23
AD7811YR	AD7811YR-ND	ADC 10-Bit, 4-Channel, 2.7V	16-SOIC	7.42	5.94	5.01
AD7811YRZ	AD7811YRZ-ND	ADC 10-Bit, 4-Channel, 2.7V*	16-SOIC	7.42	5.94	5.01
AD7811YRU	AD7811YRU-ND	ADC 10-Bit, 4-Channel, 2.7V	16-TSSOP	7.42	5.94	5.01
AD7812YRZ	AD7812YRZ-ND	ADC 10-BIt, 8-Channel, 2.7V* ***NEW!***	20-SOIC	8.44	6.76	5.70
AD7812YRU	AD7812YRU-ND	ADC 10-Bit, 8-Channel, 2.7V	20-TSSOP	8.44	6.76	5.70
AD7813YN	AD7813YN-ND	ADC 10-Bit Parallel	16-Dip	6.52	5.22	4.41
AD7817AR	AD7817AR-ND	ADC 10-Bit, 4-Ch., Temp. Sensor	16-SOIC	7.54	6.04	5.09
AD7817ARZ	AD7817ARZ-ND	ADC 10-Bit, 4-Ch., Temp. Sensor*	16-SOIC	7.54	6.04	5.09
AD7817ARU	AD7817ARU-ND	ADC 10-Bit, 4-Ch., Temp. Sensor	16-TSSOP	7.54	6.04	5.09
AD7819YR	AD7819YR-ND	ADC 8-Bit Sampling Parallel	16-SOIC	5.00	4.00	3.38
AD7819YRZ	AD7819YRZ-ND	ADC 8-Bit Sampling Parallel*	16-SOIC	5.00	4.00	3.38
AD7821KNZ	AD7821KNZ-ND	ADC 8-Bit LC2MOS Track/Hold HS*	20-Dip	14.83	13.35	11.84
AD7821KR	AD7821KR-ND	ADC 8-Bit LC2MOS Track/Hold HS	20-SOIC	15.30	14.28	13.26
AD7822BR	AD7822BR-ND	ADC 8-Bit 1-Ch., 2MSPS	20-SOIC	7.54	6.04	5.09
AD7822BRZ-REEL7	AD7822BRZ-REEL7CT-ND	ADC 8-Bit 1-Ch., 2MSPS* ***NEW!***	20-SOIC	7.54	6.04	5.09
AD7822BRZ-REEL7	AD7822BRZ-REEL7TR-ND	ADC 8-Bit 1-Ch., 2MSPS* ***NEW!***	20-SOIC	1960.40/400		
AD7823YN	AD7823YN-ND	ADC 8-Bit Serial 2.7/5.5V	8-Dip	5.00	4.00	3.38
AD7823YRZ	AD7823YRZ-ND	ADC 8-Bit Serial 2.7/5.5V*	8-SOIC	5.00	4.00	3.38
AD7824BQ	AD7824BQ-ND	ADC 8-Bit LC2MOS 4-Channel	24-CDip	25.02	23.36	21.69
AD7824KN	AD7824KN-ND	ADC 8-Bit LC2MOS 4-Channel	24-Dip	15.58	14.03	12.44
AD7824KR	AD7824KR-ND	ADC 8-Bit LC2MOS 4-Channel	24-SOIC	15.58	14.03	12.44
AD7825BR	AD7825BR-ND	ADC 8-Bit, 4-Channel, 2MSPS	24-SOIC	8.70	6.96	5.88
AD7828KN	AD7828KN-ND	ADC 8-Bit LC2MOS 8-Channel	28-Dip	15.69	14.13	12.53
AD7828KP	AD7828KP-ND	ADC 8-Bit LC2MOS 8-Channel	28-PLCC	16.13	15.05	13.98
AD7828LP	AD7828LP-ND	ADC 8-Bit LC2MOS 8-Channel	28-PLCC	21.93	20.47	19.01
AD7829BR	AD7829BR-ND	ADC 8-Bit, 8-Channel, 2MSPS	28-SOIC	9.46	7.57	6.39
AD7829BRUZ	AD7829BRUZ-ND	ADC 8-Bit, 8-Channel, 2MSPS*	28-TSSOP	9.46	7.57	6.39
AD7843ARU	AD7843ARU-ND	ADC 12-Bit, Touch Screen Digitizer	16-TSSOP	2.45	1.97	1.53
AD7854LAR	AD7854LAR-ND	ADC 12-Bit Parallel LP	28-SOIC	11.66	10.50	9.31
AD7854LARZ	AD7854LARZ-ND	ADC 12-Bit Parallel LP*	28-SOIC	11.66	10.50	9.31
AD7856AN	AD7856AN-ND	ADC 14-Bit, 8-Channel, 285KSPS	24-Dip	17.48	16.31	15.15
AD7858AN	AD7858AN-ND	ADC 12-Bit, 8-Channel Serial	24-Dip	17.03	15.89	14.76
AD7858AR	AD7858AR-ND	ADC 12-Bit, 8-Channel Serial	24-SOIC	17.03	15.89	14.76
AD7858BN	AD7858BN-ND	ADC 12-Bit, 8-Channel Serial	24-Dip	21.75	20.30	18.85
AD7858LAR	AD7858LAR-ND	ADC 12-Bit, 8-Channel Serial	24-SOIC	13.58	12.23	10.84
AD7859APZ	AD7859APZ-ND	ADC 12-Bit, 8-Channel, 200KSPS*	44-PLCC	13.74	12.38	10.98
AD7859AS	AD7859AS-ND	ADC 12-Bit, 8-Ch., 200KSPS	44-PQFP	13.74	12.38	10.98
AD7859ASZ	AD7859ASZ-ND	ADC 12-Bit, 8-Ch., 200KSPS* ***NEW!***	44-PQFP	13.74	12.38	10.98
AD7859LAS	AD7859LAS-ND	ADC 12-Bit, 8-Ch., 200KSPS	44-PQFP	13.16	11.85	10.51
AD7859LASZ	AD7859LASZ-ND	ADC 12-Bit, 8-Channel, 200KSPS*	44-PQFP	13.16	11.85	10.51
AD7862ARZ-10	AD7862ARZ-10-ND	ADC 12-Bit Dual 250KSPS* ***NEW!***	28-SOIC	19.43	18.13	16.84
AD7862ARS-3	AD7862ARS-3-ND	ADC 12-Bit Dual 250KSPS	28-SSOP	19.43	18.13	16.84
AD7862ARS-10	AD7862ARS-10-ND	ADC 12-Bit Dual 250KSPS	28-SSOP	19.43	18.13	16.84
AD7864AS-1	AD7864AS-1-ND	ADC 12-Bit Dual 4-Channel	44-MQFP	24.00	22.40	20.80
AD7864ASZ-1	AD7864ASZ-1-ND	ADC 12-Bit Dual 4-Channel*	44-MQFP	24.00	22.40	20.80
AD7865ASZ-1	AD7865ASZ-1-ND	ADC 14-Bit Dual 4-Channel*	44-MQFP	25.35	23.66	21.97
AD7866ARU	AD7866ARU-ND	ADC 12-Bit, 2-Channel Dual	20-TSSOP	11.58	10.43	9.25
AD7866ARUZ	AD7866ARUZ-ND	ADC 12-Bit, 2-Channel Dual*	20-TSSOP	11.58	10.43	9.25
AD7866BRU	AD7866BRU-ND	ADC 12-Bit, 2-Ch. Dual	20-TSSOP	13.53	12.18	10.80
AD7866BRUZ	AD7866BRUZ-ND	ADC 12-Bit, 2-Ch. Dual* ***NEW!***	20-TSSOP	13.53	12.18	10.80
AD7870JNZ	AD7870JNZ-ND	ADC 12-Bit LC2MOS 100KHz* ***NEW!***	24-Dip	29.22	27.28	25.33
AD7870JP	AD7870JP-ND	ADC 12-Bit LC2MOS 100KHz	28-PLCC	29.22	27.28	25.33
AD7870JPZ	AD7870JPZ-ND	ADC 12-Bit LC2MOS 100KHz* ***NEW!***	28-PLCC	29.22	27.28	25.33
AD7871JN	AD7871JN-ND	ADC 14-Bit Sampling	28-Dip	51.00	47.60	44.20
AD7871JP	AD7871JP-ND	ADC 14-Bit Sampling	28-PLCC	51.00	47.60	44.20
AD7871KN	AD7871KN-ND	ADC 14-Bit Sampling	28-Dip	60.11	56.10	52.10
AD7872JNZ	AD7872JNZ-ND	ADC 14-Bit Sampling* ***NEW!***	16-Dip	43.71	40.80	37.89
AD7872JR	AD7872JR-ND	ADC 14-Bit LC2MOS	16-SOIC	43.71	40.80	37.89
AD7872JRZ	AD7872JRZ-ND	ADC 14-Bit LC2MOS*	16-SOIC	43.71	40.80	37.89
AD7872KN	AD7872KN-ND	ADC 14-Bit LC2MOS	16-Dip	51.51	48.08	44.65
AD7872KNZ	AD7872KNZ-ND	ADC 14-Bit LC2MOS*	16-Dip	51.51	48.08	44.65
AD7873ACP	AD7873ACP-ND	ADC 12-Bit Touch Screen	16-LFCSP	4.84	3.87	3.01
AD7875KN	AD7875KN-ND	ADC 12-Bit LC2MOS 100KHz	24-Dip	39.30	36.68	34.06
AD7876BN	AD7876BN-ND	ADC 12-Bit Sampling 10V	24-Dip	30.90	28.84	26.78
AD7880BNZ	AD7880BNZ-ND	ADC 12-Bit LC2MOS 5V Low Power* ***NEW!***	24-Dip	25.41	23.72	22.03
AD7880BR	AD7880BR-ND	ADC 12-Bit LC2MOS 5V Low Power	24-SOIC	25.41	23.72	22.03
AD7880CNZ	AD7880CNZ-ND	ADC 12-Bit LC2MOS 5V Low Power* ***NEW!***	24-Dip	29.04	27.11	25.17
AD7884AQ	AD7884AQ-ND	ADC 16-Bit Sampling High Speed	40-CDip	77.27	72.12	66.97
AD7885AQ	AD7885AQ-ND	ADC 16-Bit Sampling High Speed	28-CDip	77.27	72.12	66.97
AD7888ARZ	AD7888ARZ-ND	ADC 12-Bit, 8-Ch., 125KSPS* ***NEW!***	16-SOIC	9.20	7.36	6.21
AD7888ARUZ	AD7888ARUZ-ND	ADC 12-Bit, 8-Channel, 125KSPS* ***NEW!***	16-TSSOP	9.20	7.36	6.21
AD7892AR-1	AD7892AR-1-ND	ADC 12-Bit, 5V, 600KSPS	24-SOIC	22.50	21.00	19.50
AD7892ARZ-1	AD7892ARZ-1-ND	ADC 12-Bit, 5V, 500KSPS*	24-SOIC	22.50	21.00	19.50
AD7892BR-1	AD7892BR-1-ND	ADC 12-Bit, 5V, 600KSPS	24-SOIC	27.00	25.20	23.40
AD7892BR-3	AD7892BR-3-ND	ADC 12-Bit, 2.5V, 600KSPS	24-SOIC	27.00	25.20	23.40
AD7892BRZ-1	AD7892BRZ-1-ND	ADC 12-Bit, 5V, 500KSPS*	24-SOIC	27.00	25.20	23.40
AD7893AR-5	AD7893AR-5-ND	ADC 12-Bit LC2MOS	8-SOIC	16.50	15.40	14.30
AD7893AR-10	AD7893AR-10-ND	ADC 12-Bit LC2MOS	8-SOIC	16.50	15.40	14.30
AD7893ARZ-10	AD7893ARZ-10-ND	ADC 12-Bit LC2MOS*	8-SOIC	16.50	15.40	14.30
AD7893BR-5	AD7893BR-5-ND	ADC 12-Bit LC2MOS	8-SOIC	21.38	19.95	18.53
AD7893BR-10	AD7893BR-10-ND	ADC 12-Bit LC2MOS	8-SOIC	21.38	19.95	18.53
AD7894AR-2	AD7894AR-2-ND	ADC 14-Bit Serial Track Hold LP	8-SOIC	15.58	14.03	12.44
AD7894AR-3	AD7894AR-3-ND	ADC 14-Bit Serial Track Hold LP	8-SOIC	15.58	14.03	12.44
AD7894ARZ-3	AD7894ARZ-3-ND	ADC 14-Bit Serial Track Hold LP*	8-SOIC	15.58	14.03	12.44
AD7894BRZ-10	AD7894BRZ-10-ND	ADC 14-Bit Serial Track Hold LP* ***NEW!***	8-SOIC	18.53	17.29	16.06
AD7895AR-2	AD7895AR-2-ND	ADC 12-Bit Serial 5V	8-SOIC	9.75	8.78	7.79
AD7895ARZ-3	AD7895ARZ-3-ND	ADC 12-Bit Serial 5V*	8-SOIC	9.75	8.78	7.79
AD7895AR-10	AD7895AR-10-ND	ADC 12-Bit Serial 5V	8-SOIC	9.75	8.78	7.79
AD7896BR	AD7896BR-ND	ADC 12-Bit Serial Track Hold HS	8-SOIC	15.53	14.49	13.46
AD7896BRZ	AD7896BRZ-ND	ADC 12-Bit Serial Track Hold HS*	8-SOIC	15.53	14.49	13.46
AD7899ARS-1	AD7899ARS-1-ND	ADC 14-Bit, 400KSPS, 5V	28-SSOP	17.48	16.31	15.15
AD7899ARSZ-1	AD7899ARSZ-1-ND	ADC 14-Bit, 400KSPS, 5V* ***NEW!***	28-SSOP	17.48	16.31	15.15
AD7904BRU	AD7904BRU-ND	ADC 8-Bit, 4-Channel, 1MSPS	16-TSSOP	4.10	3.28	2.55
AD7904BRUZ	AD7904BRUZ-ND	ADC 8-Bit, 4-Channel, 1MSPS*	16-TSSOP	4.10	3.28	2.55
AD7908BRUZ	AD7908BRUZ-ND	ADC 8-Bit, 8-Channel, 1MSPS*	20-TSSOP	4.91	3.93	3.06
AD7910ARM	AD7910ARM-ND	ADC 10-Bit, 250KSPS	8-MSOP	4.64	3.71	2.89
AD7911ARMZ	AD7911ARMZ-ND	ADC 10-Bit, 2-Channel, 250KSPS*	8-MSOP	5.29	4.23	3.29
AD7911ARMZ-REEL7	AD7911ARMZREEL7TR-ND	ADC 10-Bit, 2-Channel, 250KSPS*	8-MSOP	2996.00/1,000		
AD7912AUJ-R2	AD7912AUJ-R2TR-ND	ADC 10-Bit, 2-Channel, 1MSPS	8-TSOT	1053.00/250		
EVAL-AD7912CB	EVAL-AD7912CB-ND	Evaluation Board for AD7912	—	157.50	—	—
AD7914BRU	AD7914BRU-ND	ADC 10-Bit, 4-Channel, 1MSPS	16-TSSOP	7.06	5.65	4.77
AD7918BRU	AD7918BRU-ND	ADC 10-Bit, 8-Ch., 1MSPS	20-TSSOP	7.64	6.12	5.16
AD7918BRUZ	AD7918BRUZ-ND	ADC 10-Bit, 8-Ch., 1MSPS* ***NEW!***	20-TSSOP	7.64	6.12	5.16
AD7920BRMZ	AD7920BRMZ-ND	ADC 12-Bit, 250KSPS*	8-MSOP	6.02	4.82	4.07
AD7921ARM	AD7921ARM-ND	ADC 12-Bit, 250KSPS, 2-Channel	8-MSOP	5.42	4.34	3.66
AD7921ARM-REEL7	AD7921ARM-REEL7TR-ND	ADC 12-Bit, 250KSPS, 2-Channel	8-MSOP	3388.00/1,000		
AD7921ARMZ	AD7921ARMZ-ND	ADC 12-Bit, 250KSPS, 2-Channel*	8-MSOP	5.42	4.34	3.66
AD7922ARM	AD7922ARM-ND	ADC 12-Bit, 1MSPS, 2-Channel	8-MSOP	10.00	8.00	6.75
AD7922ARMZ	AD7922ARMZ-ND	ADC 12-Bit, 1MSPS, 2-Channel*	8-MSOP	8.33	7.50	6.65
EVAL-AD7922CB	EVAL-AD7922CB-ND	Evaluation Board for AD7922	—	157.50	—	—
AD7923BRUZ	AD7923BRUZ-ND	ADC 12-Bit, 4-Channel, 200KSPS* ***NEW!***	16-TSSOP	6.00	4.80	4.05
AD7924BRU	AD7924BRU-ND	ADC 12-Bit, 4-Ch., 1MSPS	16-TSSOP	8.81	7.94	7.04
AD7924BRUZ	AD7924BRUZ-ND	ADC 12-Bit, 4-Ch., 1MSPS* ***NEW!***	16-TSSOP	8.81	7.94	7.04
AD7927BRUZ	AD7927BRUZ-ND	ADC 12-Bit, 8-Channel, 200KSPS*	20-TSSOP	6.58	5.27	4.45
AD7928BRUZ	AD7928BRUZ-ND	ADC 12-Bit, 8-Channel, 1MSPS*	20-TSSOP	9.31	8.39	7.44
AD7933BRUZ	AD7933BRUZ-ND	ADC 10-Bit, 4-Channel, 1.5MSPS*	28-TSSOP	8.24	6.60	5.57
AD7940BRM	AD7940BRM-ND	ADC 14-Bit, 100KSPS, Unipolar	8-MSOP	9.64	7.72	6.51
AD7940BRM-REEL7	AD7940BRM-REEL7TR-ND	ADC 14-Bit, 100KSPS, Unipolar	8-MSOP	6025.00/1,000		
AD7993BRUZ-0	AD7993BRUZ-0-ND	ADC 10-Bit, 4-Channel, I²C*	16-TSSOP	5.00	4.00	3.11
AD7998BRUZ-1	AD7998BRUZ-1-ND	ADC 12-Bit, 8-Channel, I²C*	20-TSSOP	8.82	7.06	5.96
AD9012AJ	AD9012AJ-ND	ADC 8-Bit, 100MSPS	28-CLCC	108.47	101.24	94.01
AD9042AST	AD9042AST-ND	ADC 12-Bit, 41MSPS	44-TQFP	40.25	37.57	34.88
AD9042ASTZ	AD9042ASTZ-ND	ADC 12-Bit, 41MSPS* ***NEW!***	44-TQFP	40.25	37.57	34.88
AD9048JQ	AD9048JQ-ND	Video ADC 8-Bit	28-CDip	38.03	35.49	32.96
AD9050BR	AD9050BR-ND	ADC 10-Bit, 40MSPS	28-SOIC	14.33	12.90	11.44
AD9051BRS	AD9051BRS-ND	ADC 10-Bit, 60MSPS	28-SSOP	12.25	11.03	9.78
AD9051BRS-2V	AD9051BRS-2V-ND	ADC 10-Bit, 60MSPS	28-SSOP	12.25	11.03	9.78
AD9054ABST-200	AD9054ABST-200-ND	ADC 8-Bit, 200MSPS	44-LQFP	32.64	30.47	28.29
AD9058AJJ	AD9058AJJ-ND	ADC 8-Bit Dual 50MSPS	44-JLCC	44.94	41.95	38.95
AD9058AKJ	AD9058AKJ-ND	ADC 8-Bit Dual 50MSPS	44-JLCC	88.32	82.44	76.55
AD9200ARSZ	AD9200ARSZ-ND	ADC CMOS 10-Bit, 20MSPS* ***NEW!***	28-SSOP	5.88	4.71	3.97
AD9201ARS	AD9201ARS-ND	ADC CMOS 10-Bit Dual	28-SSOP	9.71	8.75	7.76
AD9203ARUZ	AD9203ARUZ-ND	ADC 10-Bit, 40MSPS, 3V* ***NEW!***	28-TSSOP	9.40	8.46	7.51
AD9214BRSZ-105	AD9214BRSZ-105-ND	ADC 10-Bit, 105MSPS, 3V* ***NEW!***	28-SSOP	17.84	16.65	15.46
AD9215BCP-65	AD9215BCP-65-ND	ADC 10-Bit, 65MSPS	32-LFCSP	9.80	8.82	7.83
AD9215BCP-80	AD9215BCP-80-ND	ADC 10-Bit, 80MSPS	32-LFCSP	11.82	11.04	10.25
AD9215BCP-105	AD9215BCP-105-ND	ADC 10-Bit, 105MSPS	32-LFCSP	12.35	11.53	10.70
AD9215BRU-65	AD9215BRU-65-ND	ADC 10-Bit, 65MSPS, 3V	28-TSSOP	9.80	8.82	7.83
AD9215BRU-80	AD9215BRU-80-ND	ADC 10-Bit, 80MSPS, 3V	28-TSSOP	11.82	11.04	10.25
AD9215BRU-105	AD9215BRU-105-ND	ADC 10-Bit, 105MSPS, 3V	28-TSSOP	12.35	11.53	10.70
AD9215BRUZ-105	AD9215BRUZ-105-ND	ADC 10-Bit, 105MSPS, 3V* ***NEW!***	28-TSSOP	12.35	11.53	10.70
AD9218BSTZ-40	AD9218BSTZ-40-ND	ADC 10-Bit, 40MSPS Dual* ***NEW!***	48-LQFP	15.87	14.82	13.76
AD9218BST-65	AD9218BST-65-ND	ADC 10-Bit, 65MSPS Dual	48-LQFP	19.61	18.30	17.00
AD9218BSTZ-65	AD9218BSTZ-65-ND	ADC 10-Bit, 65MSPS Dual* ***NEW!***	48-LQFP	19.61	18.30	17.00
AD9218BST-80	AD9218BST-80-ND	ADC 10-Bit, 80MSPS Dual	48-LQFP	22.28	20.79	19.31
AD9218BSTZ-105	AD9218BSTZ-105-ND	ADC 10-Bit, 105MSPS Dual* ***NEW!***	48-LQFP	28.53	26.63	24.73
AD9218BSTZ-RL65	AD9218BSTZ-RL65CT-ND	ADC 10-Bit, 65MSPS Dual*	48-LQFP	19.61	18.30	17.00
AD9218BSTZ-RL65	AD9218BSTZ-RL65TR-ND	ADC 10-Bit, 65MSPS Dual*	48-LQFP	32282.00/2,000		
AD9220AR	AD9220AR-ND	ADC 12-Bit, 10MSPS	28-SOIC	10.78	9.71	8.61
AD9220ARZ	AD9220ARZ-ND	ADC 12-Bit, 10MSPS* ***NEW!***	28-SOIC	10.78	9.71	8.61
AD9220ARSZ	AD9220ARSZ-ND	ADC 12-Bit, 10MSPS* ***NEW!***	28-SSOP	10.78	9.71	8.61
AD9223ARS	AD9223ARS-ND	ADC 12-Bit, 3MSPS	28-SSOP	11.71	10.55	9.35
AD9223ARSZ	AD9223ARSZ-ND	ADC 12-Bit, 3MSPS*	28-SSOP	11.71	10.55	9.35
AD9224ARSZ	AD9224ARSZ-ND	ADC 12-Bit, 40MSPS*	28-SSOP	19.32	18.04	16.75
AD9225ARZ	AD9225ARZ-ND	ADC 12-Bit, 25MSPS*	28-SOIC	22.94	21.41	19.88
AD9225ARSZ	AD9225ARSZ-ND	ADC 12-Bit, 25MSPS*	28-SSOP	22.94	21.41	19.88
AD9226ARSZ	AD9226ARSZ-ND	ADC 12-Bit, 65MSPS*	28-SSOP	28.14	26.27	24.39
AD9226ASTZ	AD9226ASTZ-ND	ADC 12-Bit, 65MSPS*	48-LQFP	28.14	26.27	24.39
AD9235BCPZ-65	AD9235BCPZ-65-ND	ADC 12-Bit, 65MSPS* ***NEW!***	32-LFCSP	21.18	19.77	18.36
AD9235-65PCB	AD9235-65PCB-ND	Evaluation Board for AD9235-65	—	225.00	—	—
AD9235BRUZ-20	AD9235BRUZ-20-ND	ADC 12-Bit, 20MSPS*	28-TSSOP	13.73	12.36	10.96
AD9235BRUZ-40	AD9235BRUZ-40-ND	ADC 12-Bit, 40MSPS*	28-TSSOP	15.49	13.95	12.37
AD9235BRUZ-65	AD9235BRUZ-65-ND	ADC 12-Bit, 65MSPS*	28-TSSOP	21.18	19.77	18.36
AD9236BCP-80	AD9236BCP-80-ND	ADC 12-Bit, 80MSPS, 3V	32-LFCSP	29.13	27.19	25.25

* ***RoHS Compliant***

(Continued)

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Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9236BCPZ-80	AD9236BCPZ-80-ND	ADC 12-Bit, 80MSPS, 3V* ***NEW!***	32-LFCSP	29.13	27.19	25.25
AD9236BCP-80EB	AD9236BCP-80EB-ND	Evaluation Board for AD9236-80	—	225.00	—	—
AD9236BRU-80	AD9236BRU-80-ND	ADC 12-Bit, 80MSPS, 3V	28-TSSOP	29.13	27.19	25.25
AD9238BSTZ-20	AD9238BSTZ-20-ND	ADC 12-Bit Dual 20MSPS* ***NEW!***	64-LQFP	19.43	18.13	16.84
AD9238BST-40	AD9238BST-40-ND	ADC 12-Bit Dual 40MSPS	64-LQFP	21.18	19.77	18.36
AD9238BSTZ-40	AD9238BSTZ-40-ND	ADC 12-Bit Dual 40MSPS* ***NEW!***	64-LQFP	21.18	19.77	18.36
AD9238BSTZ-65	AD9238BSTZ-65-ND	ADC 12-Bit Dual 65MSPS* ***NEW!***	64-LQFP	31.77	29.66	27.54
AD9240ASZ	AD9240ASZ-ND	ADC 14-Bit, 10MSPS* ***NEW!***	44-MQFP	29.12	27.18	25.24
AD9241ASZ	AD9241ASZ-ND	ADC 14-Bit, 1.25MSPS*	44-MQFP	15.00	14.00	13.00
AD9243AS	AD9243AS-ND	ADC 14-Bit, 3MSPS	44-MQFP	18.53	17.29	16.06
AD9243ASZ	AD9243ASZ-ND	ADC 14-Bit, 3MSPS*	44-MQFP	18.53	17.29	16.06
AD9244BST-40	AD9244BST-40-ND	ADC 14-Bit, 40MSPS	48-LQFP	32.90	30.71	28.51
AD9244BSTZ-40	AD9244BSTZ-40-ND	ADC 14-Bit, 40MSPS*	48-LQFP	32.90	30.71	28.51
AD9244BST-65	AD9244BST-65-ND	ADC 14-Bit, 65MSPS	48-LQFP	43.85	40.93	38.00
AD9244BSTZ-65	AD9244BSTZ-65-ND	ADC 14-Bit, 65MSPS*	48-LQFP	43.85	40.93	38.00
AD9245BCPZ-80	AD9245BCPZ-80-ND	ADC 14-Bit, 80MSPS, 3V* ***NEW!***	32-LFCSP	54.71	51.06	47.42
AD9245BCP-80EB	AD9245BCP-80EB-ND	Evaluation Board for AD9245BCP+C757-80	—	225.00	—	—
AD9248BSTZ-20	AD9248BSTZ-20-ND	ADC 14-Bit, 20MSPS, Dual* ***NEW!***	64-LQFP	37.05	34.58	32.11
AD9248BSTZ-40	AD9248BSTZ-40-ND	ADC 14-Bit, 40MSPS, Dual* ***NEW!***	64-LQFP	52.32	48.84	45.35
AD9248BSTZ-65	AD9248BSTZ-65-ND	ADC 14-Bit, 65MSPS, Dual* ***NEW!***	64-LQFP	70.50	65.80	61.10
AD9260ASZ	AD9260ASZ-ND	ADC CMOS 16-Bit Oversampled*	44-MQFP	70.43	65.73	61.04
AD9280ARS	AD9280ARS-ND	ADC CMOS 8-Bit, 32MSPS	28-SSOP	5.09	4.07	3.17
AD9280ARSZ	AD9280ARSZ-ND	ADC CMOS 8-Bit, 32MSPS*	28-SSOP	5.09	4.07	3.17
AD9281ARS	AD9281ARS-ND	ADC 8-Bit Dual CMOS	28-SSOP	8.14	6.52	5.50
AD9281ARSZ	AD9281ARSZ-ND	ADC 8-Bit Dual CMOS*	28-SSOP	8.14	6.52	5.50
AD9283BRS-50	AD9283BRS-50-ND	ADC 8-Bit, 50MSPS, 3V	20-SSOP	5.88	4.71	3.97
AD9283BRS-80	AD9283BRS-80-ND	ADC 8-Bit, 80MSPS, 3V	20-SSOP	7.04	5.64	4.76
AD9283BRSZ-100	AD9283BRSZ-100-ND	ADC 8-Bit, 100MSPS, 3V* ***NEW!***	20-SSOP	10.78	9.71	8.61
AD9288BST-40	AD9288BST-40-ND	ADC 8-Bit Dual 40MSPS	48-LQFP	8.00	6.40	5.40
AD9288BST-100	AD9288BST-100-ND	ADC 8-Bit Dual 100MSPS	48-LQFP	18.53	17.29	16.06
AD9288BSTZ-100	AD9288BSTZ-100-ND	ADC 8-Bit Dual 100MSPS* ***NEW!***	48-LQFP	18.53	17.29	16.06
AD9410BSQ	AD9410BSQ-ND	ADC 10-Bit, 210MSPS	80-LQFP	88.50	82.60	76.70
AD9410BSQZ	AD9410BSQZ-ND	ADC 10-Bit, 210MSPS*	80-LQFP	88.50	82.60	76.70
AD9411BSV-170	AD9411BSV-170-ND	ADC 10-Bit, 170MSPS, 3.3V	100-TQFP	63.47	59.24	55.01
AD9411BSV-200	AD9411BSV-200-ND	ADC 10-Bit, 200MSPS, 3.3V	100-TQFP	74.10	69.16	64.22
AD9430BSV-170	AD9430BSV-170-ND	ADC 12-Bit, 170MSPS, 3.3V	100-TQFP	69.74	65.09	60.44
AD9430BSVZ-170	AD9430BSVZ-170-ND	ADC 12-Bit, 170MSPS, 3.3V*	100-TQFP	69.74	65.09	60.44
AD9430BSVZ-210	AD9430BSVZ-210-ND	ADC 12-Bit, 210MSPS, 3.3V*	100-TQFP	97.10	90.63	84.15
AD9432BSQ-105	AD9432BSQ-105-ND	ADC 12-Bit, 105MSPS	52-LQFP	52.08	48.61	45.14
AD9432BSQZ-105	AD9432BSQZ-105-ND	ADC 12-Bit, 105MSPS* ***NEW!***	52-LQFP	52.08	48.61	45.14
AD9432BST-80	AD9432BST-80-ND	ADC 12-Bit, 80MSPS	52-LQFP	41.93	39.13	36.34
AD9432BSTZ-80	AD9432BSTZ-80-ND	ADC 12-Bit, 80MSPS*	52-LQFP	41.93	39.13	36.34
AD9432BSTZ-105	AD9432BSTZ-105-ND	ADC 12-Bit, 105MSPS*	52-LQFP	52.08	48.61	45.14
AD9432/PCB	AD9432/PCB-ND	Evaluation Board for AD9432	—	225.00	—	—
AD9433BSQ-125	AD9433BSQ-125-ND	ADC 12-Bit, 125MSPS IF Sampling	52-LQFP	54.72	51.08	47.43
AD9433BSQZ-125	AD9433BSQZ-125-ND	ADC 12-Bit, 125MSPS IF Sampling* ***NEW!***	52-LQFP	54.72	51.08	47.43
AD9433/PCB	AD9433/PCB-ND	Evaluation Board for AD9433	—	337.50	—	—
AD10678BWS	AD10678BWS-ND	ADC 16-Bit, 80MSPS	60-SMD	774.19	—	—
AD10678/PCB	AD10678/PCB-ND	Evaluation Kit for AD10678	—	1137.15	—	—
ADADC71JD	ADADC71JD-ND	ADC 16-Bit High Resolution	32-CDip	344.03	321.09	298.16
ADADC80-12	ADADC80-12-ND	ADC 12-Bit, Integrated	32-CDip	148.23	138.35	128.47
ADADC80-Z-12	ADADC80-Z-12-ND	ADC 12-Bit, Integrated	32-CDip	148.23	138.35	128.47
ADADC85-12	ADADC85-12-ND	ADC 12-Bit	32-CDip	256.55	239.45	222.34
ADADC85SZ-12	ADADC85SZ-12-ND	ADC 12-Bit	32-CDip	304.83	284.51	264.19
ADC912AFP	ADC912AFP-ND	ADC 12-Bit CMOS MPU Compatible	24-Dip	18.75	17.50	16.25
ADC912AFS	ADC912AFS-ND	ADC 12-Bit CMOS MPU Compatible	24-SOIC	18.74	17.49	16.24
HSC-ADC-EVALA-DC	HSC-ADC-EVALA-DC-ND	HS ADC USB FIFO Evaluation Kit	—	798.00	—	—

Digital-to-Analog

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD390SD	AD390SD-ND	DAC Quad 12-Bit	28-CDip	648.48	605.25	562.02
AD390TD	AD390TD-ND	DAC Quad 12-Bit	28-Dip	760.20	709.52	658.84
AD420ANZ-32	AD420ANZ-32-ND	DAC Serial 16-Bit*	24-Dip	18.98	17.71	16.45
AD420ARZ-32	AD420ARZ-32-ND	DAC Serial 16-Bit* ***NEW!***	24-SOIC	18.98	17.71	16.45
AD421BN	AD421BN-ND	DAC Serial 16-Bit	16-Dip	13.24	11.93	10.58
AD421BNZ	AD421BNZ-ND	DAC Serial 16-Bit* ***NEW!***	16-Dip	13.24	11.93	10.58
AD421BRZ	AD421BRZ-ND	DAC Serial 16-Bit*	16-SOIC	13.24	11.93	10.58
AD557JN	AD557JN-ND	DAC 8-Bit Voltage Out	16-Dip	8.34	6.68	5.63
AD557JNZ	AD557JNZ-ND	DAC 8-Bit Voltage Out*	16-Dip	8.34	6.68	5.63
AD557JP	AD557JP-ND	DAC 8-Bit Voltage Out	20-PLCC	8.34	6.68	5.63
AD558JNZ	AD558JNZ-ND	DAC 8-Bit Voltage Out*	16-Dip	11.18	10.07	8.93
AD558JP	AD558JP-ND	DAC 8-Bit Voltage Out	20-PLCC	11.18	10.07	8.93
AD558JPZ	AD558JPZ-ND	DAC 8-Bit Voltage Out*	20-PLCC	11.18	10.07	8.93
AD558KNZ	AD558KNZ-ND	DAC 8-Bit Voltage Out*	16-Dip	15.26	14.24	13.23
AD558KP	AD558KP-ND	DAC 8-Bit Voltage Out	20-PLCC	15.26	14.24	13.23
AD558KPZ	AD558KPZ-ND	DAC 8-Bit Voltage Out*	20-PLCC	15.26	14.24	13.23
AD558SD	AD558SD-ND	DAC 8-Bit Voltage Out	16-CDip	29.63	27.65	25.68
AD561KD	AD561KD-ND	DAC 10-Bit, 5-15V Input Mono	16-Dip	78.48	73.25	68.02
AD565AJD	AD565AJD-ND	DAC 12-Bit Mono High Speed	24-Dip	27.57	25.74	23.90
AD565AJR	AD565AJR-ND	DAC 12-Bit Mono High Speed	28-SOIC	21.93	20.47	19.01
AD567JD	AD567JD-ND	DAC 12-Bit Mono	28-Dip	42.39	39.57	36.74
AD568JQ	AD568JQ-ND	DAC 12-Bit High Speed Mono 35nS	24-Dip	48.71	45.46	42.22
AD569AD	AD569AD-ND	DAC 16-Bit Mono	28-Dip	60.66	56.62	52.58
AD569JN	AD569JN-ND	DAC 16-Bit Mono	28-Dip	35.73	33.35	30.97
AD569JNZ	AD569JNZ-ND	DAC 16-Bit Mono* ***NEW!***	28-Dip	35.73	33.35	30.97
AD569JP	AD569JP-ND	DAC 16-Bit Mono	28-PLCC	39.12	36.52	33.91
AD569KN	AD569KN-ND	DAC 16-Bit Mono	28-Dip	45.00	42.00	39.00
AD660AN	AD660AN-ND	DAC 16-Bit Mono with Voltage Reference	24-Dip	22.71	21.20	19.69
AD660ANZ	AD660ANZ-ND	DAC 16-Bit Mono with Voltage Reference* ***NEW!***	24-Dip	22.71	21.20	19.69
AD660AR	AD660AR-ND	DAC 16-Bit Mono with Voltage Reference	24-SOIC	22.71	21.20	19.69
AD660BN	AD660BN-ND	DAC 16-Bit Mono with Voltage Ref.	24-Dip	34.05	31.78	29.51
AD660BR	AD660BR-ND	DAC 16-Bit Mono with Voltage Ref.	24-SOIC	34.05	31.78	29.51
AD664BD-BIP	AD664BD-BIP-ND	DAC 12-Bit Quad Mono	28-Dip	117.66	109.82	101.98
AD664BD-UNI	AD664BD-UNI-ND	DAC 12-Bit Quad Mono	28-CDip	117.66	109.82	101.98
AD664BJ	AD664BJ-ND	DAC 12-Bit Quad Mono	44-JLCC	124.07	115.80	107.53
AD664JN-BIP	AD664JN-BIP-ND	DAC 12-Bit Quad Bipolar	28-Dip	67.77	63.26	58.74
AD664JNZ-BIP	AD664JNZ-BIP-ND	DAC 12-Bit Quad Bipolar*	28-Dip	67.77	63.26	58.74
AD664JP	AD664JP-ND	DAC 12-Bit Quad Mono	44-PLCC	78.50	73.27	68.03
AD664KP	AD664KP-ND	DAC 12-Bit Quad Mono	44-PLCC	106.97	99.84	92.71
AD667JN	AD667JN-ND	DAC 12-Bit Voltage Out	28-Dip	15.30	14.28	13.26
AD667JNZ	AD667JNZ-ND	DAC 12-Bit Voltage Out*	28-Dip	15.30	14.28	13.26
AD667JP	AD667JP-ND	DAC 12-Bit Voltage Out	28-PLCC	15.30	14.28	13.26
AD667SD	AD667SD-ND	DAC 12-Bit Voltage Out	28-CDip	99.18	92.57	85.96
AD669AN	AD669AN-ND	DAC 16-Bit Mono with Voltage Ref.	28-Dip	22.71	21.20	19.69
AD669ANZ	AD669ANZ-ND	DAC 16-Bit Mono with Voltage Ref.*	28-Dip	22.71	21.20	19.69
AD669BN	AD669BN-ND	DAC 16-Bit Mono with Voltage Ref.	28-Dip	34.05	31.78	29.51
AD669BNZ	AD669BNZ-ND	DAC 16-Bit Mono with Voltage Ref.*	28-Dip	34.05	31.78	29.51
AD669BR	AD669BR-ND	DAC 16-Bit Mono with Voltage Ref.	28-SOIC	34.05	31.78	29.51
AD760AQ	AD760AQ-ND	DAC 16-Bit with Amp Serial	28-CDip	108.90	101.64	94.38
AD766JN	AD766JN-ND	DAC 16-Bit with Voltage Reference	16-Dip	17.85	16.66	15.47
AD766JNZ	AD766JNZ-ND	DAC 16-Bit with Voltage Reference*	16-Dip	17.85	16.66	15.47
AD767AD	AD767AD-ND	DAC 12-Bit	24-CDip	24.39	22.77	21.14
AD767JN	AD767JN-ND	DAC 12-Bit	24-Dip	16.01	14.94	13.88
AD767JNZ	AD767JNZ-ND	DAC 12-Bit*	24-Dip	16.01	14.94	13.88
AD767JP	AD767JP-ND	DAC 12-Bit	28-PLCC	16.01	14.94	13.88
AD767KN	AD767KN-ND	DAC 12-Bit	24-Dip	21.11	19.70	18.30
AD767KNZ	AD767KNZ-ND	DAC 12-Bit*	24-Dip	21.11	19.70	18.30
AD768AR	AD768AR-ND	DAC 16-Bit, 30MSPS	28-SOIC	37.43	34.93	32.44
AD1139J	AD1139J-ND	DAC Single 18-Bit	32-Dip	906.92	846.46	786.00
AD1139K	AD1139K-ND	DAC Single 18-Bit	32-Dip	1133.64	1058.07	982.49
AD1833AAST	AD1833AAST-ND	DAC Audio 24-Bit, 6-Channel	48-LQFP	12.50	11.25	9.98
AD1833ACST	AD1833ACST-ND	DAC Audio 24-Bit, 6-Channel	48-LQFP	8.70	6.96	5.88
AD1851NZ	AD1851NZ-ND	DAC Audio 16-Bit PCM* ***NEW!***	16-Dip	10.00	9.00	7.98
AD1851RZ	AD1851RZ-ND	DAC Audio 16-Bit PCM* ***NEW!***	16-SOIC	10.00	9.00	7.98
AD1851R-REEL7	AD1851R-REEL7CT-ND	DAC Audio 16-Bit PCM	16-SOIC	10.00	9.00	7.98
AD1851R-REEL7	AD1851R-REEL7TR-ND	DAC Audio 16-Bit PCM	16-SOIC	1912.50/250		
AD1852JRS	AD1852JRS-ND	DAC Stereo 24-Bit	28-SSOP	11.46	10.32	9.16
AD1852JRSZ	AD1852JRSZ-ND	DAC Stereo 24-Bit*	28-SSOP	11.46	10.32	9.16
AD1853JRS	AD1853JRS-ND	DAC Stereo 24-Bit	28-SSOP	12.89	11.61	10.30
AD1861R-J	AD1861R-J-ND	DAC Audio Fastset 18-Bit	16-SOIC	11.83	10.65	9.45
AD1865N	AD1865N-ND	DAC Audio Dual 18-Bit	24-Dip	21.08	19.67	18.27
AD1866N	AD1866N-ND	DAC Audio 16-Bit Dual	16-Dip	16.54	14.90	13.21
AD1866R	AD1866R-ND	DAC Audio 16-Bit Dual	16-SOIC	16.54	14.90	13.21
AD1868N	AD1868N-ND	DAC Audio 18-Bit Dual	16-Dip	16.62	15.52	14.41
AD1868R	AD1868R-ND	DAC Audio 18-Bit Dual	16-SOIC	16.62	15.52	14.41
AD1953YST	AD1953YST-ND	DAC Audio 3-Channel, 26-Bit	48-LQFP	13.01	11.72	10.39
AD1954YST	AD1954YST-ND	DAC Audio 3-Channel, 26-Bit	48-LQFP	13.01	11.72	10.39
AD1955ARSZ	AD1955ARSZ-ND	DAC Audio Multi-Bit*	28-SSOP	12.50	11.25	9.98
EVAL-AD1955EB	EVAL-AD1955EB-ND	Evaluation Board for AD1955	—	225.00	—	—
AD5300BRM	AD5300BRM-ND	DAC 8-Bit R-R 2.7-5.5V	8-MSOP	3.42	2.74	2.13
AD5300BRMZ	AD5300BRMZ-ND	DAC 8-Bit R-R 2.7-5.5V*	8-MSOP	3.42	2.74	2.13
AD5300BRTZ-REEL7	AD5300BRTZREEL7CT-ND	DAC 8-Bit R-R 2.7-5.5V*	SOT-23-6	2.81	2.25	1.75
AD5300BRTZ-REEL7	AD5300BRTZREEL7TR-ND	DAC 8-Bit R-R 2.7-5.5V*	SOT-23-6	4725.00/3,000		
AD5301BRM	AD5301BRM-ND	DAC 8-Bit, 2.5V, 2-Wire	8-MSOP	3.85	3.08	2.40
AD5301BRMZ	AD5301BRMZ-ND	DAC 8-Bit, 2.5V, 2-Wire*	8-MSOP	3.85	3.08	2.40
AD5301BRT-500RL7	AD5301BRT500RL7CT-ND	DAC 8-Bit, 2.5V, 2-Wire	SOT-23-6	3.15	2.52	1.96
AD5301BRT-500RL7	AD5301BRT500RL7TR-ND	DAC 8-Bit, 2.5V, 2-Wire	SOT-23-6	910.00/500		
AD5301BRTZ-500RL7	AD5301BRTZ500RLCT-ND	DAC 8-Bit, 2.5V, 2-Wire*	SOT-23-6	3.15	2.52	1.96
AD5301BRTZ-500RL7	AD5301BRTZ500RLTR-ND	DAC 8-Bit, 2.5V, 2-Wire*	SOT-23-6	910.00/500		
AD5302BRM-REEL7	AD5302BRM-REEL7CT-ND	DAC 8-Bit Dual Rail-to-Rail	10-MSOP	5.36	4.29	3.34
AD5302BRM-REEL7	AD5302BRM-REEL7TR-ND	DAC 8-Bit Dual Rail-to-Rail	10-MSOP	3035.00/1,000		
AD5302BRMZ	AD5302BRMZ-ND	DAC 8-Bit Dual Rail-to-Rail*	10-MSOP	5.36	4.29	3.34
AD5304BRM	AD5304BRM-ND	DAC 8-Bit Quad Voltage Out	10-MSOP	7.20	5.76	4.86
AD5304BRMZ	AD5304BRMZ-ND	DAC 8-Bit Quad Voltage Out* ***NEW!***	10-MSOP	7.20	5.76	4.86
AD5308ARUZ	AD5308ARUZ-ND	DAC 8-Bit, 2.5V Octal* ***NEW!***	16-TSSOP	6.04	4.84	4.08
AD5308BRU	AD5308BRU-ND	DAC 8-Bit, 2.5V Octal	16-TSSOP	9.86	7.89	6.66
AD5308BRUZ	AD5308BRUZ-ND	DAC 8-Bit, 2.5V Octal*	16-TSSOP	9.86	7.89	6.66
AD5310BRM	AD5310BRM-ND	DAC 10-Bit R-R with Buffer	8-MSOP	4.66	3.73	2.90
AD5310BRMZ	AD5310BRMZ-ND	DAC 10-Bit R-R with Buffer*	8-MSOP	4.66	3.73	2.90
AD5310BRT-REEL	AD5310BRT-REELCT-ND	DAC 10-Bit R-R with Buffer	SOT-23-6	3.83	3.06	2.38
AD5310BRT-REEL	AD5310BRT-REELTR-ND	DAC 10-Bit R-R with Buffer	SOT-23-6	20830.00/10,000		
AD5310BRTZ-REEL	AD5310BRTZ-REELCT-ND	DAC 10-Bit R-R with Buffer* ***NEW!***	SOT-23-6	3.83	3.06	2.38
AD5310BRTZ-REEL	AD5310BRTZ-REELTR-ND	DAC 10-Bit R-R with Buffer* ***NEW!***	SOT-23-6	20830.00/10,000		
AD5311BRM	AD5311BRM-ND	DAC 10-Bit, 2-Wire with Buffer	8-MSOP	5.36	4.29	3.34
AD5311BRMZ	AD5311BRMZ-ND	DAC 10-Bit, 2-Wire with Buffer*	8-MSOP	5.36	4.29	3.34
AD5312BRM	AD5312BRM-ND	DAC 10-Bit Dual R-R Out	10-MSOP	5.86	4.69	3.96
AD5312BRMZ	AD5312BRMZ-ND	DAC 10-Bit Dual R-R Out* ***NEW!***	10-MSOP	5.86	4.69	3.96
AD5314BRMZ	AD5314BRMZ-ND	DAC 10-Bit Quad Volt. Out* ***NEW!***	10-MSOP	8.66	6.93	5.85
AD5315BRMZ	AD5315BRMZ-ND	DAC 10-Bit, 2-Wire I2C*	10-MSOP	8.66	6.93	5.85
AD5316BRU	AD5316BRU-ND	DAC 10-Bit Quad with Buffer	16-TSSOP	9.14	7.32	6.17
AD5316BRUZ	AD5316BRUZ-ND	DAC 10-BIt Quad w/Buffer* ***NEW!***	16-TSSOP	9.14	7.32	6.17
AD5317BRU	AD5317BRU-ND	DAC 10-Bit Quad with Buffer	16-TSSOP	9.14	7.32	6.17
AD5317BRUZ	AD5317BRUZ-ND	DAC 10-Bit Quad w/Buffer* ***NEW!***	16-TSSOP	9.14	7.32	6.17
AD5317BRUZ-REEL7	AD5317BRUZREEL7CT-ND	DAC 10-Bit Quad with Buffer*	16-TSSOP	9.14	7.32	6.17
AD5317BRUZ-REEL7	AD5317BRUZREEL7TR-ND	DAC 10-Bit Quad with Buffer*	16-TSSOP	5713.00/1,000		
AD5318ARUZ	AD5318ARUZ-ND	DAC 10-Bit, 2.5V Octal* ***NEW!***	16-TSSOP	9.52	7.62	6.43
AD5318BRUZ	AD5318BRUZ-ND	DAC 10-Bit, 2.5V Octal* ***NEW!***	16-TSSOP	9.66	8.70	7.72
AD5320BRM	AD5320BRM-ND	DAC 12-Bit, 2.7V R-R Out	8-MSOP	6.10	4.88	4.12
AD5320BRMZ	AD5320BRMZ-ND	DAC 12-Bit, 2.7V R-R Out*	8-MSOP	6.10	4.88	4.12
AD5320BRT-500RL7	AD5320BRT500RL7CT-ND	DAC 12-Bit, 2.7V R-R Out	SOT-23-6	5.40	4.32	3.65
AD5320BRT-500RL7	AD5320BRT500RL7TR-ND	DAC 12-Bit, 2.7V R-R Out	SOT-23-6	1714.50/500		
AD5320BRT-REEL7	AD5320BRT-REEL7CT-ND	DAC 12-Bit, 2.7V R-R Out	SOT-23-6	5.00	4.00	3.38
AD5320BRT-REEL7	AD5320BRT-REEL7TR-ND	DAC 12-Bit, 2.7V R-R Out	SOT-23-6	9300.00/3,000		
AD5320BRTZ-REEL7	AD5320BRTZREEL7CT-ND	DAC 12-Bit, 2.7V R-R Out*	SOT-23-6	5.00	4.00	3.38
AD5320BRTZ-REEL7	AD5320BRTZREEL7TR-ND	DAC 12-Bit, 2.7V R-R Out*	SOT-23-6	9300.00/3,000		
AD5321BRM	AD5321BRM-ND	DAC 12-Bit, 2.5V 2-Wire	8-MSOP	7.20	5.76	4.86
AD5321BRMZ	AD5321BRMZ-ND	DAC 12-Bit, 2.5V 2-Wire*	8-MSOP	7.20	5.76	4.86
AD5322BRMZ	AD5322BRMZ-ND	DAC 12-Bit Dual Rail-to-Rail Out* ***NEW!***	10-MSOP	8.63	7.77	6.89
AD5323BRU	AD5323BRU-ND	DAC 12-Bit Dual Rail-to-Rail	16-TSSOP	9.15	8.24	7.31
AD5323BRUZ	AD5323BRUZ-ND	DAC 12-Bit Dual Rail-to-Rail*	16-TSSOP	9.15	8.24	7.31
AD5324BRM	AD5324BRM-ND	DAC 12-Bit Quad 2.5V	10-MSOP	14.13	12.72	11.28
AD5324BRMZ	AD5324BRMZ-ND	DAC 12-Bit Quad 2.5V* ***NEW!***	10-MSOP	14.13	12.72	11.28
AD5325BRMZ	AD5325BRMZ-ND	DAC 12-Bit, 2 Wire I2C* ***NEW!***	10-MSOP	14.13	12.72	11.28
AD5326BRU	AD5326BRU-ND	DAC 12-Bit Quad with Buffer	16-TSSOP	14.73	13.26	11.76
AD5326BRUZ	AD5326BRUZ-ND	DAC 12-Bit Quad with Buffer*	16-TSSOP	14.73	13.26	11.76
AD5327BRU	AD5327BRU-ND	DAC 12-Bit Quad 2.5V	16-TSSOP	14.73	13.26	11.76

* ***RoHS Compliant***

(Continued)

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ANALOG DEVICES DATA CONVERSION *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD5327BRUZ	AD5327BRUZ-ND	DAC 12-Bit Quad 2.5V*	16-TSSOP	14.73	13.26	11.76
AD5328ARU	AD5328ARU-ND	DAC 12-Bit, 2.5V Octal	16-TSSOP	14.13	12.72	11.28
AD5328ARUZ	AD5328ARUZ-ND	DAC 12-Bit, 2.5V Octal*	16-TSSOP	14.13	12.72	11.28
AD5328BRUZ	AD5328BRUZ-ND	DAC 12-Bit, 2.5V Octal* ***NEW!***	16-TSSOP	16.59	14.94	13.25
AD5330BRU	AD5330BRU-ND	DAC 8-Bit Single Voltage Out	20-TSSOP	5.36	4.29	3.34
AD5330BRUZ	AD5330BRUZ-ND	DAC 8-Bit Single Voltage Out*	20-TSSOP	5.36	4.29	3.34
AD5331BRUZ	AD5331BRUZ-ND	DAC 10-Bit Single Voltage Out*	20-TSSOP	5.12	4.10	3.46
AD5334BRU	AD5334BRU-ND	DAC 8-Bit Quad Voltage Out	24-TSSOP	8.18	6.55	5.53
AD5334BRUZ	AD5334BRUZ-ND	DAC 8-Bit Quad Voltage Out*	24-TSSOP	8.18	6.55	5.53
AD5336BRU	AD5336BRU-ND	DAC 10-Bit Quad Voltage Out	28-TSSOP	9.76	7.81	6.59
AD5336BRUZ	AD5336BRUZ-ND	DAC 10-Bit Quad Voltage Out*	28-TSSOP	9.76	7.81	6.59
AD5337ARM	AD5337ARM-ND	DAC 8-Bit Dual 2-Wire	8-MSOP	3.04	2.43	1.89
AD5337ARMZ	AD5337ARMZ-ND	DAC 8-Bit Dual 2-Wire*	8-MSOP	3.04	2.43	1.89
AD5337BRM	AD5337BRM-ND	DAC 8-Bit Dual 2-Wire	8-MSOP	4.28	3.42	2.66
AD5338ARM	AD5338ARM-ND	DAC 10-Bit Dual 2-Wire	8-MSOP	5.22	4.18	3.25
AD5338BRM	AD5338BRM-ND	DAC 10-Bit Dual 2-Wire	8-MSOP	6.34	5.08	4.28
AD5339ARM	AD5339ARM-ND	DAC 12-Bit Dual 2-Wire	8-MSOP	7.80	6.24	5.27
AD5339BRM	AD5339BRM-ND	DAC 12-Bit Dual 2-Wire	8-MSOP	9.75	8.78	7.79
AD5341BRU	AD5341BRU-ND	DAC 12-Bit Single Voltage Out	20-TSSOP	7.32	5.86	4.95
AD5341BRUZ	AD5341BRUZ-ND	DAC 12-Bit Single Voltage Out*	20-TSSOP	7.32	5.86	4.95
AD5344BRU	AD5344BRU-ND	DAC 12-Bit Quad Voltage Out	28-TSSOP	16.16	14.55	12.91
AD5344BRUZ	AD5344BRUZ-ND	DAC 12-Bit Quad Voltage Out*	28-TSSOP	16.16	14.55	12.91
AD5346BCP	AD5346BCP-ND	DAC 8-Bit Octal Voltage Out	40-LFCSP	7.30	5.84	4.93
AD5346BRU	AD5346BRU-ND	DAC 8-Bit Octal Voltage Out	38-TSSOP	7.20	5.76	4.86
AD5347BCP	AD5347BCP-ND	DAC 10-Bit Octal Voltage Out	40-LFCSP	10.06	9.06	8.04
AD5347BRU	AD5347BRU-ND	DAC 10-Bit Octal Voltage Out	38-TSSOP	10.00	9.00	7.98
AD5348BCP	AD5348BCP-ND	DAC 12-Bit Octal Voltage Out	40-LFCSP	15.45	14.42	13.39
AD5348BRU	AD5348BRU-ND	DAC 12-Bit Octal Volt. Out	38-TSSOP	15.38	14.35	13.33
AD5348BRUZ	AD5348BRUZ-ND	DAC 12-Bit Octal Volt. Out* ***NEW!***	38-TSSOP	15.38	14.35	13.33
AD5379ABC	AD5379ABC-ND	DAC 14-Bit, 40-Ch., Serial Input, Bipolar Voltage Output	108-CSPBGA	105.44	98.41	91.38
AD5380BST-5	AD5380BST-5-ND	DAC 14-Bit, 40-Channel	100-LQFP	87.36	81.54	75.72
AD5380BSTZ-5	AD5380BSTZ-5-ND	DAC 14-Bit, 40-Channel* ***NEW!***	100-LQFP	87.36	81.54	75.72
EVAL-AD5380EB	EVAL-AD5380EB-ND	Evaluation Board for AD5380	—	223.50	—	—
AD5381BSTZ-5	AD5381BSTZ-5-ND	DAC 12-Bit, 40-Channel* ***NEW!***	100-LQFP	69.71	65.06	60.42
EVAL-AD5381EB	EVAL-AD5381EB-ND	Evaluation Board for AD5381	—	199.00	—	—
AD5382BST-5	AD5382BST-5-ND	DAC 14-Bit, 32-Ch. Voltage Out	100-LQFP	100.00	80.00	67.50
AD5382BSTZ-5	AD5382BSTZ-5-ND	DAC 14-Bit, 32-Ch. Voltage Out* ***NEW!***	100-LQFP	75.00	70.00	65.00
EVAL-AD5382EB	EVAL-AD5382EB-ND	Evaluation Board for AD5382	—	199.00	—	—
AD5383BST-5	AD5383BST-5-ND	DAC 12-Bit, 32-Channel	100-LQFP	81.18	64.95	54.80
AD5383BSTZ-5	AD5383BSTZ-5-ND	DAC 12-Bit, 32-Channel* ***NEW!***	100-LQFP	60.89	56.83	52.77
EVAL-AD5383EB	EVAL-AD5383EB-ND	Evaluation Board for AD5383	—	199.00	—	—
AD5384BBC-5	AD5384BBC-5-ND	DAC 14-Bit, 40-Ch., Voltage Out	100-CSPBGA	87.36	81.54	75.72
AD5390BCP-3	AD5390BCP-3-ND	DAC 14-Bit, 16-Channel	64-LFCSP	42.18	39.37	36.56
AD5390BCPZ-3	AD5390BCPZ-3-ND	DAC 14-Bit, 16-Channel* ***NEW!***	64-LFCSP	42.18	39.37	36.56
AD5390BST-3	AD5390BST-3-ND	DAC 14-Bit, 16-Channel	52-LQFP	42.18	39.37	36.56
AD5390BSTZ-5	AD5390BSTZ-5-ND	DAC 14-Bit, 16-Channel* ***NEW!***	52-LQFP	42.18	39.37	36.56
EVAL-AD5390EB	EVAL-AD5390EB-ND	Evaluation Board for AD5390	—	223.50	—	—
AD5391BCP-3	AD5391BCP-3-ND	DAC 12-Bit, 16-Ch. Voltage Out	64-LFCSP	35.12	32.78	30.44
AD5391BCPZ-3	AD5391BCPZ-3-ND	DAC 12-Bit, 16-Ch. Voltage Out* ***NEW!***	64-LFCSP	35.12	32.78	30.44
AD5391BCP-5	AD5391BCP-5-ND	DAC 12-Bit, 16-Ch. Voltage Out	64-LFCSP	46.82	37.46	31.61
AD5391BCPZ-5	AD5391BCPZ-5-ND	DAC 12-Bit, 16-Ch. Voltage Out* ***NEW!***	64-LFCSP	35.12	32.78	30.44
EVAL-AD5391EB	EVAL-AD5391EB-ND	Evaluation Board for AD5391	—	223.50	—	—
AD5392BCP-3	AD5392BCP-3-ND	DAC 14-Bit, 8-Channel Voltage Out	64-LFCSP	26.30	24.55	22.79
AD5392BCP-5	AD5392BCP-5-ND	DAC 14-Bit, 8-Channel Voltage Out	64-LFCSP	35.06	28.05	23.67
EVAL-AD5392EB	EVAL-AD5392EB-ND	Evaluation Board for AD5392	—	223.50	—	—
AD5398BCPZ-REEL7	AD5398BCPZ-REEL7CT-ND	DAC 10-Bit, 120mA Current Sinking* ***NEW!***	8-LFCSP	4.01	3.21	2.50
AD5398BCPZ-REEL7	AD5398BCPZ-REEL7TR-ND	DAC 10-Bit, 120mA Current Sinking* ***NEW!***	8-LFCSP	3405.00/1,500		
EVAL-AD5398EB	EVAL-AD5398EB-ND	Evaluation Board for AD5398 ***NEW!***	—	111.38	—	—
AD5399YRM	AD5399YRM-ND	DAC 12-Bit Dual with Ref.	10-MSOP	9.96	7.97	6.73
AD5399YRMZ	AD5399YRMZ-ND	DAC 12-Bit Dual with Ref.* ***NEW!***	10-MSOP	9.96	7.97	6.73
AD5405YCP	AD5405YCP-ND	DAC 12-Bit Dual, Multiply	40-LFCSP	8.41	7.58	6.72
AD5405YCPZ	AD5405YCPZ-ND	DAC 12-Bit Dual, Multiply* ***NEW!***	40-LFCSP	8.41	7.58	6.72
EVAL-AD5405EB	EVAL-AD5405EB-ND	Evaluation Board for AD5405	—	99.00	—	—
AD5415YRU	AD5415YRU-ND	DAC 12-Bit Multiplying, High Bandwidth	24-TSSOP	9.11	8.21	7.28
AD5415YRUZ	AD5415YRUZ-ND	DAC 12-Bit Multiplying, High Bandwidth*	24-TSSOP	9.11	8.21	7.28
AD5415YRU-REEL7	AD5415YRU-REEL7TR-ND	DAC 12-Bit Multiplying, High Bandwidth	24-TSSOP	6755.00/1,000		
EVAL-AD5415EB	EVAL-AD5415EB-ND	Evaluation Board for AD5415	—	111.38	—	—
AD5424YRU	AD5424YRU-ND	DAC 8-Bit Multiplying	16-TSSOP	5.30	4.24	3.58
AD5424YRUZ	AD5424YRUZ-ND	DAC 8-Bit Multiplying*	16-TSSOP	5.30	4.24	3.58
AD5425YRM	AD5425YRM-ND	DAC 8-Bit Multiply, High Bandwidth	10-MSOP	5.36	4.29	3.34
EVAL-AD5425EB	EVAL-AD5425EB-ND	Evaluation Board for AD5425	—	99.00	—	—
AD5426YRM	AD5426YRM-ND	DAC 8-Bit Multiply, High Bandwidth	10-MSOP	5.82	4.66	3.93
AD5428YRU	AD5428YRU-ND	DAC 8-Bit Multiply, High Bandwidth	20-TSSOP	7.04	5.64	4.76
AD5429YRU	AD5429YRU-ND	DAC 8-Bit Multiply, High Bandwidth	16-TSSOP	6.40	5.12	4.32
AD5429YRU-REEL7	AD5429YRU-REEL7TR-ND	DAC 8-Bit Multiply, High Bandwidth	16-TSSOP	4000.00/1,000		
EVAL-AD5429EB	EVAL-AD5429EB-ND	Evaluation Board for AD5429	—	111.38	—	—
AD5432YRM	AD5432YRM-ND	DAC 10-Bit Multiply, High Bandwidth	10-MSOP	6.40	5.12	4.32
AD5432YRMZ	AD5432YRMZ-ND	DAC 10-Bit Muliply, High Bandwidth* ***NEW!***	10-MSOP	6.40	5.12	4.32
AD5433YRU	AD5433YRU-ND	DAC 10-Bit Multiply	20-TSSOP	5.82	4.66	3.93
AD5439YRU	AD5439YRU-ND	DAC 10-Bit Multiply, High Bandwidth	16-TSSOP	8.52	6.82	5.76
AD5439YRUZ	AD5439YRUZ-ND	DAC 10-Bit Multiply, High Bandwidth* ***NEW!***	16-TSSOP	8.52	6.82	5.76
AD5439YRUZ-REEL7	AD5439YRUZ-REEL7TR-ND	DAC 10-Bit Multiply, High Bandwidth* ***NEW!***	16-TSSOP	5325.00/1,000		
AD5439YRU-REEL7	AD5439YRU-REEL7TR-ND	DAC 10-Bit Multiply, High Bandwidth	16-TSSOP	5325.00/1,000		
EVAL-AD5439EB	EVAL-AD5439EB-ND	Evaluation Board for AD5439	—	111.38	—	—
AD5440YRU	AD5440YRU-ND	DAC 10-Bit Multiply, High Bandwidth	24-TSSOP	9.36	7.49	6.32
AD5443YRMZ	AD5443YRMZ-ND	DAC 12-Bit Multiply, High Bandwidth*	10-MSOP	8.74	7.00	5.90
EVAL-AD5443EB	EVAL-AD5443EB-ND	Evaluation Board for AD5443	—	99.00	—	—
AD5445YCP	AD5445YCP-ND	DAC 12-Bit Multiply, High Bandwidth	20-LFCSP	7.94	6.36	5.36
AD5445YRUZ	AD5445YRUZ-ND	DAC 12-Bit Multiply, High Bandwidth* ***NEW!***	20-TSSOP	7.94	6.36	5.36
EVAL-AD5445EB	EVAL-AD5445EB-ND	Evaluation Board for AD5445	—	99.00	—	—
AD5447YRUZ	AD5447YRUZ-ND	DAC 12-Bit Multiply, High Bandwidth*	24-TSSOP	10.96	9.87	8.76
AD5449YRU	AD5449YRU-ND	DAC 12-Bit Multiply, High Bandwidth	16-TSSOP	9.94	8.99	7.97
AD5449YRUZ	AD5449YRUZ-ND	DAC 12-Bit Multiply, High Bandwidth* ***NEW!***	16-TSSOP	9.98	8.99	7.97
AD5449YRU-REEL7	AD5449YRU-REEL7TR-ND	DAC 12-Bit Multiply, High Bandwidth	16-TSSOP	7398.00/1,000		
EVAL-AD5449EB	EVAL-AD5449EB-ND	Evaluation Board for AD5449	—	111.38	—	—
AD5516ABC-1	AD5516ABC-1-ND	DAC 12-Bit, 16-Channel	74-CSPBGA	47.33	44.17	41.02
AD5516ABC-2	AD5516ABC-2-ND	DAC 12-Bit, 16-Channel	74-CSPBGA	47.33	44.17	41.02
AD5516ABC-3	AD5516ABC-3-ND	DAC 12-Bit, 16-Channel	74-CSPBGA	47.33	44.17	41.02
AD5530BRU	AD5530BRU-ND	DAC 12-Bit Serial-In/Voltage Out	16-TSSOP	8.63	7.77	6.89
AD5530BRUZ	AD5530BRUZ-ND	DAC 12-Bit Serial-In/Voltage Out*	16-TSSOP	8.63	7.77	6.89
AD5531BRU	AD5531BRU-ND	DAC 14-Bit Serial-In/Voltage Out	16-TSSOP	14.11	12.71	11.27
AD5531BRUZ	AD5531BRUZ-ND	DAC 14-Bit Serial-In/Voltage Out*	16-TSSOP	14.11	12.71	11.27
AD5532ABC-1	AD5532ABC-1-ND	DAC 14-Bit, 32-Ch. Sample/Hold	74-LFBGA	81.90	76.44	70.98
AD5532ABC-2	AD5532ABC-2-ND	DAC 14-Bit, 32-Ch. Sample/Hold	74-LFBGA	81.90	76.44	70.98
AD5532BBC-1	AD5532BBC-1-ND	DAC 14-Bit, 32-Ch. Sample/Hold	74-CSPBGA	90.00	84.00	78.00
AD5533ABC-1	AD5533ABC-1-ND	DAC 14-Bit, 32-Channel	74-LFBGA	77.25	72.10	66.95
AD5541AR	AD5541AR-ND	DAC 16-Bit Serial-In/Voltage Out	8-SOIC	16.50	15.40	14.30
AD5541ARZ	AD5541ARZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	16.50	15.40	14.30
AD5541CR	AD5541CR-ND	DAC 16-Bit Serial-In/Voltage Out	8-SOIC	30.00	28.00	26.00
AD5541CRZ	AD5541CRZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	30.00	28.00	26.00
AD5541JR	AD5541JR-ND	DAC 16-Bit Serial-In/Voltage Out	8-SOIC	15.00	14.00	13.00
AD5541JRZ	AD5541JRZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	15.00	14.00	13.00
AD5541LR	AD5541LR-ND	DAC 16-Bit Serial-In/Voltage Out	8-SOIC	22.50	21.00	19.50
AD5541LRZ	AD5541LRZ-ND	DAC 16-Bit Serial-In/Voltage Out*	8-SOIC	22.50	21.00	19.50
AD5542AR	AD5542AR-ND	DAC 16-Bit Serial-In	14-SOIC	16.50	15.40	14.30
AD5542ARZ	AD5542ARZ-ND	DAC 16-Bit Serial-In*	14-SOIC	16.50	15.40	14.30
AD5542CRZ	AD5542CRZ-ND	DAC 16-Bit Serial-In* ***NEW!***	14-SOIC	30.00	28.00	26.00
AD5542LRZ	AD5542LRZ-ND	DAC 16-Bit Serial-In* ***NEW!***	14-SOIC	22.50	21.00	19.50
AD5543BR	AD5543BR-ND	DAC 16-Bit Serial-In/Current Out	8-SOIC	16.50	15.40	14.30
AD5543BRZ	AD5543BRZ-ND	DAC 16-Bit Serial-In/Current Out* ***NEW!***	8-SOIC	16.50	15.40	14.30
AD5543BRM	AD5543BRM-ND	DAC 16-Bit Serial-In/Current Out	8-MSOP	16.50	15.40	14.30
AD5544ARS	AD5544ARS-ND	DAC 16-Bit Quad Serial-In	28-SSOP	46.46	43.36	40.27
AD5545BRU	AD5545BRU-ND	DAC 16-Bit Dual Serial-In	16-TSSOP	19.82	18.50	17.18
AD5546BRUZ	AD5546BRUZ-ND	DAC 16-Bit Multiplying* ***NEW!***	28-TSSOP	26.10	24.36	22.62
AD5547BRUZ	AD5547BRUZ-ND	DAC 16-Bit Multiplying* ***NEW!***	38-TSSOP	24.23	22.61	21.00
AD5551BR	AD5551BR-ND	DAC 14-Bit Serial-In	8-SOIC	12.81	11.54	10.23
AD5551BRZ	AD5551BRZ-ND	DAC 14-Bit Serial-In*	8-SOIC	12.81	11.54	10.23
AD5553CRM	AD5553CRM-ND	DAC 14-Bit Serial-In/Current Out	8-MSOP	11.98	10.79	9.57
AD5553CRMZ	AD5553CRMZ-ND	DAC 14-Bit Serial-In/Current Out*	8-MSOP	11.98	10.79	9.57
AD5555CRU	AD5555CRU-ND	DAC 14-Bit Dual Serial-In	16-TSSOP	15.66	14.10	12.51
AD5555CRUZ	AD5555CRUZ-ND	DAC 14-Bit Dual Serial-In*	16-TSSOP	15.66	14.10	12.51
AD5556CRU	AD5556CRU-ND	DAC 14-Bit Multiplying	28-TSSOP	16.48	14.84	13.16
AD5556CRUZ	AD5556CRUZ-ND	DAC 14-Bit Multiplying* ***NEW!***	28-TSSOP	16.48	14.84	13.16
AD5570ARS	AD5570ARS-ND	DAC 16-Bit Serial-In/Voltage Out	16-SSOP	26.36	24.60	22.85
AD5570WRSZ	AD5570WRSZ-ND	DAC 16-Bit Serial-In/Voltage Out* ***NEW!***	16-SSOP	31.62	29.52	27.41
AD5582YRVZ	AD5582YRVZ-ND	DAC 12-Bit Quad Voltage Out*	48-TSSOP	16.80	15.68	14.56
AD5583YRV	AD5583YRV-ND	DAC 10-Bit Quad Voltage Out	48-TSSOP	11.46	10.32	9.16
AD5621AKSZ-500RL7	AD5621AKSZ500RLCT-ND	DAC 12-Bit Voltage Out*	SC70-6	3.38	2.70	2.10
AD5621AKSZ-500RL7	AD5621AKSZ500RLTR-ND	DAC 12-Bit Voltage Out*	SC70-6	975.00/500		
AD5641AKSZ-500RL7	AD5641AKSZ500RLCT-ND	DAC 14-Bit Voltage Out*	SC70-6	4.88	3.91	3.30
AD5641AKSZ-500RL7	AD5641AKSZ500RLTR-ND	DAC 14-Bit Voltage Out*	SC70-6	1586.00/500		
AD7111ABN	AD7111ABN-ND	DAC Logarithm	16-Dip	9.88	8.90	7.89
AD7111ABNZ	AD7111ABNZ-ND	DAC Logarithm* ***NEW!***	16-Dip	9.88	8.90	7.89
AD7224KN	AD7224KN-ND	DAC 8-Bit LC2MOS	18-Dip	8.86	7.09	5.99
AD7224KNZ	AD7224KNZ-ND	DAC 8-Bit LC2MOS*	18-Dip	8.86	7.09	5.99
AD7224KR-18	AD7224KR-18-ND	DAC 8-Bit LC2MOS	18-SOIC	8.08	6.47	5.46
AD7224LR-18	AD7224LR-18-ND	DAC 8-Bit LC2MOS	18-SOIC	8.86	7.98	7.08
AD7225KN	AD7225KN-ND	DAC 8-Bit LC2MOS Quad	24-Dip	23.09	21.55	20.01
AD7226KNZ	AD7226KNZ-ND	DAC 8-Bit LC2MOS Quad*	20-Dip	21.65	20.21	18.76
AD7226KP	AD7226KP-ND	DAC 8-Bit LC2MOS Quad	20-PLCC	24.57	22.94	21.30
AD7226KPZ	AD7226KPZ-ND	DAC 8-Bit LC2MOS Quad*	20-PLCC	24.57	22.94	21.30
AD7226KR	AD7226KR-ND	DAC 8-Bit LC2MOS Quad	20-SOIC	21.65	20.21	18.76
AD7226KRZ	AD7226KRZ-ND	DAC 8-Bit LC2MOS Quad*	20-SOIC	21.65	20.21	18.76
AD7228ABNZ	AD7228ABNZ-ND	DAC 8-Bit LC2MOS Octal*	24-Dip	23.15	21.61	20.06
AD7228ABRZ	AD7228ABRZ-ND	DAC 8-Bit LC2MOS Octal*	24-SOIC	23.15	21.61	20.06
AD7228ACP	AD7228ACP-ND	DAC 8-Bit LC2MOS Octal	28-PLCC	27.17	25.36	23.55
AD7228ACR	AD7228ACR-ND	DAC 8-Bit LC2MOS Octal	24-SOIC	27.17	25.36	23.55
AD7228ACRZ	AD7228ACRZ-ND	DAC 8-Bit LC2MOS Octal*	24-SOIC	27.17	25.36	23.55
AD7228KNZ	AD7228KNZ-ND	DAC 8-Bit LC2MOS Octal*	24-Dip	42.93	40.07	37.21
AD7228KP	AD7228KP-ND	DAC 8-Bit LC2MOS Octal	28-PLCC	49.37	46.08	42.79
AD7228LNZ	AD7228LNZ-ND	DAC 8-Bit LC2MOS Octal*	24-Dip	50.31	46.96	43.61
AD7233AN	AD7233AN-ND	DAC 12-Bit LC2MOS Serial	8-Dip	12.15	10.94	9.70
AD7237AAN	AD7237AAN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	26.40	24.64	22.88
AD7237ABN	AD7237ABN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	30.98	28.91	26.85
AD7237ABR	AD7237ABR-ND	DAC 12-Bit LC2MOS Dual	24-SOIC	29.04	27.11	25.17
AD7237ABRZ	AD7237ABRZ-ND	DAC 12-Bit LC2MOS Dual*	24-SOIC	29.04	27.11	25.17
AD7237JN	AD7237JN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	24.75	23.10	21.45
AD7237JNZ	AD7237JNZ-ND	DAC 12-Bit LC2MOS Dual*	24-Dip	24.75	23.10	21.45
AD7237JR	AD7237JR-ND	DAC 12-Bit LC2MOS Dual	24-SOIC	24.75	23.10	21.45
AD7237KN	AD7237KN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	29.04	27.11	25.17
AD7243AN	AD7243AN-ND	Serial DAC 12-Bit LC2MOS	16-Dip	12.83	11.55	10.25
AD7243ANZ	AD7243ANZ-ND	Serial DAC 12-Bit LC2MOS*	16-Dip	12.83	11.55	10.25
AD7243AR	AD7243AR-ND	Serial DAC 12-Bit LC2MOS	16-SOIC	12.83	11.55	10.25
AD7243ARZ	AD7243ARZ-ND	Serial DAC 12-Bit LC2MOS*	16-SOIC	12.83	11.55	10.25
AD7243BR	AD7243BR-ND	DAC 12-Bit with Amp/Reference	16-SOIC	15.58	14.03	12.44

* **RoHS Compliant**

(Continued)

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Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7244JR	AD7244JR-ND	DAC 14-Bit LC2MOS Dual	28-SOIC	35.85	33.46	31.07
AD7244JRZ	AD7244JRZ-ND	DAC 14-Bit LC2MOS Dual*	28-SOIC	35.85	33.46	31.07
AD7245AAN	AD7245AAN-ND	DAC 12-Bit with Reference	24-Dip	13.26	11.94	10.59
AD7245AANZ	AD7245AANZ-ND	DAC 12-Bit with Reference* ***NEW!***	24-Dip	13.26	11.94	10.59
AD7245AAPZ	AD7245AAPZ-ND	DAC 12-Bit with Reference* ***NEW!***	28-PLCC	15.23	14.21	13.20
AD7245AAR	AD7245AAR-ND	DAC 12-Bit with Reference	24-SOIC	13.26	11.94	10.59
AD7245AARZ	AD7245AARZ-ND	DAC 12-Bit with Reference*	24-SOIC	13.26	11.94	10.59
AD7245JN	AD7245JN-ND	DAC 12-Bit with Reference	24-Dip	14.68	13.22	11.72
AD7245JPZ	AD7245JPZ-ND	DAC 12-Bit with Reference* ***NEW!***	28-PLCC	15.23	14.21	13.20
AD7247AAN	AD7247AAN-ND	DAC 12-Bit with Amp/Buffer	24-Dip	24.75	23.10	21.45
AD7247AANZ	AD7247AANZ-ND	DAC 12-Bit with Amp/Buffer*	24-Dip	24.75	23.10	21.45
AD7247AARZ	AD7247AARZ-ND	DAC 12-Bit with Amp/Buffer* ***NEW!***	24-SOIC	24.75	23.10	21.45
AD7247ABR	AD7247ABR-ND	DAC 12-Bit LC2MOS Dual	24-SOIC	29.04	27.11	25.17
AD7247ABRZ	AD7247ABRZ-ND	DAC 12-Bit LC2MOS Dual*	24-SOIC	29.04	27.11	25.17
AD7247JN	AD7247JN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	24.75	23.10	21.45
AD7247JNZ	AD7247JNZ-ND	DAC 12-Bit LC2MOS Dual*	24-Dip	24.75	23.10	21.45
AD7248AAN	AD7248AAN-ND	DAC 12-Bit LC2MOS	24-Dip	13.26	11.94	10.59
AD7248AANZ	AD7248AANZ-ND	DAC 12-Bit LC2MOS* ***NEW!***	24-Dip	13.26	11.94	10.59
AD7248AAR	AD7248AAR-ND	DAC 12-Bit with Reference	20-SOIC	13.26	11.94	10.59
AD7248AARZ	AD7248AARZ-ND	DAC 12-Bit with Reference*	20-SOIC	13.26	11.94	10.59
AD7248JNZ	AD7248JNZ-ND	DAC 12-Bit with Reference* ***NEW!***	20-Dip	14.68	13.22	11.72
AD7249AN	AD7249AN-ND	DAC 12-Bit Serial with Ref.	16-Dip	16.28	15.19	14.11
AD7249ANZ	AD7249ANZ-ND	DAC 12-Bit Serial with Ref.* ***NEW!***	16-Dip	16.28	15.19	14.11
AD7249ARZ	AD7249ARZ-ND	DAC 12-Bit Serial with Ref.* ***NEW!***	16-SOIC	16.28	15.19	14.11
AD7302BN	AD7302BN-ND	DAC 8-Bit Dual 2.7V	20-Dip	5.14	4.12	3.47
AD7302BR	AD7302BR-ND	DAC 8-Bit Dual 2.7V	20-SOIC	5.14	4.12	3.47
AD7302BRZ	AD7302BRZ-ND	DAC 8-Bit Dual 2.7V*	20-SOIC	5.14	4.12	3.47
AD7302BR-REEL7	AD7302BR-REEL7CT-ND	DAC 8-Bit Dual 2.7V	20-SOIC	5.14	4.12	3.47
AD7302BR-REEL7	AD7302BR-REEL7TR-ND	DAC 8-Bit Dual 2.7V	20-SOIC	1336.40/400		
AD7302BRUZ	AD7302BRUZ-ND	DAC 8-Bit Dual 2.7V*	20-TSSOP	5.14	4.12	3.47
AD7303BN	AD7303BN-ND	DAC 8-Bit Dual 2.7V	8-Dip	6.02	4.82	4.07
AD7303BNZ	AD7303BNZ-ND	DAC 8-Bit Dual 2.7V* ***NEW!***	8-Dip	6.02	4.82	4.07
AD7303BR	AD7303BR-ND	DAC 8-Bit Dual 2.7V	8-SOIC	6.02	4.82	4.07
AD7303BRZ	AD7303BRZ-ND	DAC 8-Bit Dual 2.7V*	8-SOIC	6.02	4.82	4.07
AD7303BRM	AD7303BRM-ND	DAC 8-Bit Dual 2.7V	8-MSOP	6.40	5.12	4.32
AD7303BRMZ	AD7303BRMZ-ND	DAC 8-Bit Dual 2.7V*	8-MSOP	6.40	5.12	4.32
AD7304BRU	AD7304BRU-ND	DAC 8-Bit Quad 3V/5V Rail-to-Rail	16-TSSOP	8.30	6.64	5.61
AD7304BRZ	AD7304BRZ-ND	DAC 8-Bit Quad 3V/5V Rail-to-Rail*	16-SOIC	8.30	6.64	5.61
AD7304YRZ	AD7304YRZ-ND	DAC 8-Bit Quad 3V/5V Rail-to-Rail*	16-SOIC	10.16	9.15	8.12
AD7305BRZ	AD7305BRZ-ND	DAC 8-Bit Quad 5V Rail-to-Rail*	20-SOIC	9.60	7.68	6.48
AD7305BRU	AD7305BRU-ND	DAC 8-Bit Quad 5V Rail-to-Rail	20-TSSOP	9.60	7.68	6.48
AD7305BRUZ	AD7305BRUZ-ND	DAC 8-Bit Quad 5V Rail-to-Rail*	20-TSSOP	9.60	7.68	6.48
AD7390AR	AD7390AR-ND	DAC 12-Bit, 3V Serial-In	8-SOIC	9.33	8.40	7.45
AD7390ARZ	AD7390ARZ-ND	DAC 12-Bit, 3V Serial-In*	8-SOIC	9.33	8.40	7.45
AD7391AN	AD7391AN-ND	DAC 10-Bit, 3V Serial-In	8-Dip	7.22	5.78	4.88
AD7391AR	AD7391AR-ND	DAC 10-Bit, 3V Serial-In	8-SOIC	7.22	5.78	4.88
AD7391ARZ	AD7391ARZ-ND	DAC 10-Bit, 3V Serial-In*	8-SOIC	7.22	5.78	4.88
AD7392AR	AD7392AR-ND	DAC 12-Bit, 3V Parallel	20-SOIC	9.91	8.93	7.92
AD7392ARZ	AD7392ARZ-ND	DAC 12-Bit, 3V Parallel*	20-SOIC	9.91	8.93	7.92
AD7393AR	AD7393AR-ND	DAC 10-Bit, 3V Parallel	20-SOIC	7.66	6.13	5.18
AD7396ARZ	AD7396ARZ-ND	DAC 12-Bit, 3V Parallel*	24-SOIC	11.66	10.50	9.31
AD7397ARU	AD7397ARU-ND	DAC 10-Bit, 3V Parallel	24-TSSOP	8.24	6.60	5.57
AD7398BRZ	AD7398BRZ-ND	DAC 12-Bit Quad Serial-In*	16-SOIC	16.13	15.05	13.98
AD7398BRUZ	AD7398BRUZ-ND	DAC 12-Bit Quad Serial-In*	16-TSSOP	16.13	15.05	13.98
AD7524JNZ	AD7524JNZ-ND	DAC 8-Bit Multiplying*	16-Dip	7.02	5.62	4.74
AD7524JR	AD7524JR-ND	DAC 8-Bit Multiplying	16-SOIC	7.66	6.13	5.18
AD7524JRZ	AD7524JRZ-ND	DAC 8-Bit Multiplying*	16-SOIC	7.66	6.13	5.18
AD7528JN	AD7528JN-ND	DAC 8-Bit Dual Multiplying	20-Dip	8.86	7.98	7.08
AD7528JNZ	AD7528JNZ-ND	DAC 8-Bit Dual Multiplying*	20-Dip	8.86	7.98	7.08
AD7528JP	AD7528JP-ND	DAC 8-Bit Dual Multiplying	20-PLCC	10.13	9.12	8.09
AD7528JR	AD7528JR-ND	DAC 8-Bit Dual Multiplying	20-SOIC	10.13	9.12	8.09
AD7528JRZ	AD7528JRZ-ND	DAC 8-Bit Dual Multiplying* ***NEW!***	20-SOIC	10.13	9.12	8.09
AD7528KN	AD7528KN-ND	DAC 8-Bit Dual Multiplying	20-Dip	9.16	8.25	7.32
AD7528KNZ	AD7528KNZ-ND	DAC 8-Bit Dual Multiplying*	20-Dip	9.16	8.25	7.32
AD7528LNZ	AD7528LNZ-ND	DAC 8-Bit Dual Multiplying*	20-Dip	14.83	13.35	11.84
AD7528LR	AD7528LR-ND	DAC 8-Bit Dual Multiplying	20-SOIC	15.23	14.21	13.20
AD7533JNZ	AD7533JNZ-ND	DAC 10-Bit Multiplying*	16-Dip	6.26	5.01	4.23
AD7533KN	AD7533KN-ND	DAC 10-Bit Multiplying	16-Dip	6.76	5.41	4.57
AD7533KNZ	AD7533KNZ-ND	DAC 10-Bit Multiplying*	16-Dip	6.76	5.41	4.57
AD7533LNZ	AD7533LNZ-ND	DAC 10-Bit Multiplying*	16-Dip	8.10	6.48	5.47
AD7533UQ	AD7533UQ-ND	DAC 10-Bit Multiplying	16-CDip	24.44	22.81	21.18
AD7537KN	AD7537KN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	20.78	19.39	18.01
AD7537KP	AD7537KP-ND	DAC 12-Bit LC2MOS Dual	28-PLCC	22.88	21.35	19.83
AD7537KPZ	AD7537KPZ-ND	DAC 12-Bit LC2MOS Dual*	28-PLCC	22.88	21.35	19.83
AD7537LN	AD7537LN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	26.91	25.12	23.33
AD7541AJN	AD7541AJN-ND	DAC 12-Bit Multiplying	18-Dip	11.18	10.07	8.93
AD7541AJNZ	AD7541AJNZ-ND	DAC 12-Bit Multiplying*	18-Dip	11.18	10.07	8.93
AD7541AKN	AD7541AKN-ND	DAC 12-Bit Multiplying	18-Dip	12.43	11.19	9.93
AD7541AKNZ	AD7541AKNZ-ND	DAC 12-Bit Multiplying*	18-Dip	12.43	11.19	9.93
AD7542JNZ	AD7542JNZ-ND	DAC 12-Bit Multiplying*	16-Dip	18.39	17.17	15.94
AD7542KNZ	AD7542KNZ-ND	DAC 12-Bit Multiplying*	16-Dip	20.33	18.97	17.62
AD7542KR	AD7542KR-ND	DAC 12-Bit Multiplying	16-SOIC	20.33	18.97	17.62
AD7543GKR	AD7543GKR-ND	DAC 12-Bit Serial Input Multiplying	16-SOIC	24.29	22.67	21.05
AD7543JN	AD7543JN-ND	DAC 12-Bit Serial Input Multiplying	16-Dip	16.68	15.57	14.46
AD7543KN	AD7543KN-ND	DAC 12-Bit Serial Input Multiplying	16-Dip	18.44	17.21	15.98
AD7545AKN	AD7545AKN-ND	DAC 12-Bit Multiplying	20-Dip	9.81	8.84	7.84
AD7545AKNZ	AD7545AKNZ-ND	DAC 12-Bit Multiplying*	20-Dip	9.81	8.84	7.84
AD7545AKP	AD7545AKP-ND	DAC 12-Bit Multiplying	20-PLCC	11.86	10.68	9.47
AD7545GLN	AD7545GLN-ND	DAC 12-Bit Multiplying	20-Dip	22.47	20.98	19.48
AD7545JNZ	AD7545JNZ-ND	DAC 12-Bit Multiplying*	20-Dip	11.93	10.74	9.53
AD7547JN	AD7547JN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	19.46	18.16	16.87
AD7547JNZ	AD7547JNZ-ND	DAC 12-Bit LC2MOS Dual*	24-Dip	19.46	18.16	16.87
AD7547JPZ	AD7547JPZ-ND	DAC 12-Bit LC2MOS Dual* ***NEW!***	28-PLCC	22.41	20.92	19.43
AD7547JR	AD7547JR-ND	DAC 12-Bit LC2MOS Dual	24-SOIC	19.46	18.16	16.87
AD7547JRZ	AD7547JRZ-ND	DAC 12-Bit LC2MOS Dual*	24-SOIC	19.46	18.16	16.87
AD7547KN	AD7547KN-ND	DAC 12-Bit LC2MOS Dual	24-Dip	22.80	21.28	19.76
AD7547KNZ	AD7547KNZ-ND	DAC 12-Bit LC2MOS Dual*	24-Dip	22.80	21.28	19.76
AD7547KPZ	AD7547KPZ-ND	DAC 12-BIt LC2MOS Dual* ***NEW!***	28-PLCC	26.22	24.48	22.73
AD7547LPZ	AD7547LPZ-ND	DAC 12-Bit LC2MOS Dual* ***NEW!***	28-PLCC	35.49	33.13	30.76
AD7548BQ	AD7548BQ-ND	DAC 12-Bit LC2MOS	20-CDip	19.49	18.19	16.89
AD7548JN	AD7548JN-ND	DAC 12-Bit LC2MOS	20-Dip	14.13	12.72	11.28
AD7548JNZ	AD7548JNZ-ND	DAC 12-Bit LC2MOS*	20-Dip	14.13	12.72	11.28
AD7548KN	AD7548KN-ND	DAC 12-Bit LC2MOS	20-Dip	15.44	14.41	13.38
AD7548KNZ	AD7548KNZ-ND	DAC 12-Bit LC2MOS*	20-Dip	15.44	14.41	13.38
AD7548KP	AD7548KP-ND	DAC 12-Bit LC2MOS	20-PLCC	17.57	16.40	15.23
AD7549BQ	AD7549BQ-ND	DAC 12-Bit LC2MOS Dual	20-CDip	34.68	32.37	30.06
AD7564BRZ	AD7564BRZ-ND	DAC 12-Bit LC2MOS Quad*	28-SOIC	21.00	19.60	18.20
AD7564BRS	AD7564BRS-ND	DAC 12-Bit LC2MOS Quad	28-SSOP	21.00	19.60	18.20
AD7564BRSZ	AD7564BRSZ-ND	DAC 12-Bit LC2MOS Quad*	28-SSOP	21.00	19.60	18.20
AD7568BP	AD7568BP-ND	DAC 12-Bit LC2MOS Octal	44-PLCC	46.20	43.12	40.04
AD7568BS	AD7568BS-ND	DAC 12-Bit LC2MOS Octal	44-PQFP	46.20	43.12	40.04
AD7568BSZ	AD7568BSZ-ND	DAC 12-Bit LC2MOS Octal*	44-PQFP	46.20	43.12	40.04
AD7628KN	AD7628KN-ND	DAC 8-Bit Dual Multiplying	20-Dip	4.75	3.80	2.96
AD7628KRZ	AD7628KRZ-ND	DAC 8-Bit Dual Multiplying* ***NEW!***	20-SOIC	4.75	3.80	2.96
AD7801BR	AD7801BR-ND	DAC 8-Bit, 2.7V	20-SOIC	5.20	4.16	3.24
AD7801BRU	AD7801BRU-ND	DAC 8-Bit, 2.7V	20-TSSOP	5.20	4.16	3.24
AD7801BRUZ	AD7801BRUZ-ND	DAC 8-Bit, 2.7V*	20-TSSOP	5.20	4.16	3.24
AD7801BRZ	AD7801BRZ-ND	DAC 8-Bit, 2.7V*	20-SOIC	5.20	4.16	3.24
AD7804BR	AD7804BR-ND	DAC 10-Bit, 3.3V Quad	16-SOIC	12.40	11.16	9.90
AD7805BRS	AD7805BRS-ND	DAC 10-Bit, 3.3V Quad	28-SSOP	12.25	11.03	9.78
AD7805BRSZ	AD7805BRSZ-ND	DAC 10-Bit, 3.3V Quad*	28-SSOP	12.25	11.03	9.78
AD7808BR	AD7808BR-ND	DAC 10-Bit, 3.3V Octal	24-SOIC	16.43	15.33	14.24
AD7809BST	AD7809BST-ND	DAC 10-Bit Octal	44-TQFP	20.91	19.52	18.13
AD7809BSTZ	AD7809BSTZ-ND	DAC 10-Bit Octal*	44-TQFP	20.91	19.52	18.13
AD7834AN	AD7834AN-ND	DAC 14-Bit Quad	28-Dip	37.50	35.00	32.50
AD7834AR	AD7834AR-ND	DAC 14-Bit Quad	28-SOIC	37.50	35.00	32.50
AD7834ARZ	AD7834ARZ-ND	DAC 14-Bit Quad*	28-SOIC	37.50	35.00	32.50
AD7834BN	AD7834BN-ND	DAC 14-Bit Quad	28-Dip	47.40	44.24	41.08
AD7834BR	AD7834BR-ND	DAC 14-Bit Quad	28-SOIC	47.40	44.24	41.08
AD7834BRZ	AD7834BRZ-ND	DAC 14-Bit Quad*	28-SOIC	47.40	44.24	41.08
AD7835AS	AD7835AS-ND	DAC 14-Bit Quad	44-MQFP	39.45	36.82	34.19
AD7835ASZ	AD7835ASZ-ND	DAC 14-Bit Quad*	44-MQFP	39.45	36.82	34.19
AD7836AS	AD7836AS-ND	DAC 14-Bit Quad LC2MOS	44-MQFP	39.45	36.82	34.19
AD7837ANZ	AD7837ANZ-ND	DAC 12-Bit Multiplying Dual* ***NEW!***	24-Dip	24.75	23.10	21.45
AD7837ARZ	AD7837ARZ-ND	DAC 12-Bit Multiplying Dual*	24-SOIC	24.75	23.10	21.45
AD7837BR	AD7837BR-ND	DAC 12-Bit Multiplying Dual	24-SOIC	29.04	27.11	25.17
AD7837BRZ	AD7837BRZ-ND	DAC 12-Bit Multiplying Dual*	24-SOIC	29.04	27.11	25.17
AD7839AS	AD7839AS-ND	DAC 13-Bit Octal Volt. Out	44-MQFP	48.53	45.29	42.06
AD7839ASZ	AD7839ASZ-ND	DAC 13-Bit Octal Volt. Out* ***NEW!***	44-MQFP	48.53	45.29	42.06
AD7840ARSZ	AD7840ARSZ-ND	DAC 14-Bit Low Power 5V* ***NEW!***	24-SSOP	19.94	18.61	17.28
AD7840JN	AD7840JN-ND	DAC 14-Bit LC2MOS Voltage Out	24-Dip	17.33	16.17	15.02
AD7840JNZ	AD7840JNZ-ND	DAC 14-Bit LC2MOS Voltage Out*	24-Dip	17.33	16.17	15.02
AD7840JP	AD7840JP-ND	DAC 14-Bit LC2MOS Voltage Out	28-PLCC	19.94	18.61	17.28
AD7840KP	AD7840KP-ND	DAC 14-Bit LC2MOS Voltage Out	28-PLCC	22.77	21.26	19.74
AD7841ASZ	AD7841ASZ-ND	DAC 14-Bit Octal Voltage Out*	44-MQFP	50.55	47.18	43.81
AD7841BS	AD7841BS-ND	DAC 14-Bit Octal Voltage Out	44-MQFP	59.63	55.65	51.68
AD7841BSZ	AD7841BSZ-ND	DAC 14-Bit Octal Voltage Out*	44-MQFP	59.63	55.65	51.68
AD7845JN	AD7845JN-ND	DAC 12-Bit Multiplying	24-Dip	10.60	9.54	8.46
AD7845JNZ	AD7845JNZ-ND	DAC 12-Bit Multiplying*	24-Dip	10.60	9.54	8.46
AD7845JP	AD7845JP-ND	DAC 12-Bit Multiplying	28-PLCC	12.20	10.98	9.74
AD7845JR	AD7845JR-ND	DAC 12-Bit Multiplying	24-SOIC	10.60	9.54	8.46
AD7845JRZ	AD7845JRZ-ND	DAC 12-Bit Multiplying*	24-SOIC	10.60	9.54	8.46
AD7846JNZ	AD7846JNZ-ND	DAC 16-Bit LC2MOS Volt. Out* ***NEW!***	28-Dip	30.84	28.79	26.73
AD7846JP	AD7846JP-ND	DAC 16-Bit LC2MOS Voltage Out	28-PLCC	33.93	31.67	29.41
AD7846KNZ	AD7846KNZ-ND	DAC 16-Bit LC2MOS Voltage Out*	28-Dip	38.96	36.36	33.77
AD7846KP	AD7846KP-ND	DAC 16-Bit LC2MOS Voltage Out	28-PLCC	38.96	36.36	33.77
AD7847AN	AD7847AN-ND	DAC 12-Bit Multiplying Dual	24-Dip	25.74	24.03	22.31
AD7847ANZ	AD7847ANZ-ND	DAC 12-Bit Multiplying Dual*	24-Dip	25.74	24.03	22.31
AD7847AR	AD7847AR-ND	DAC 12-Bit Multiplying Dual	24-SOIC	25.74	24.03	22.31
AD7847ARZ	AD7847ARZ-ND	DAC 12-Bit Multiplying Dual*	24-SOIC	25.74	24.03	22.31
AD7847BR	AD7847BR-ND	DAC 12-Bit Multiplying Dual	24-SOIC	30.20	28.19	26.17
AD7847BRZ	AD7847BRZ-ND	DAC 12-Bit Multiplying Dual* ***NEW!***	24-SOIC	30.20	28.19	26.17
AD7849BR	AD7849BR-ND	DAC 14/16-Bit Serial-In	20-SOIC	19.50	18.20	16.90
AD7943ARS-B	AD7943ARS-B-ND	DAC 12-Bit Multiplying	20-SSOP	9.30	7.44	6.28
AD7943BRZ	AD7943BRZ-ND	DAC 12-Bit Multiplying*	16-SOIC	9.30	7.44	6.28
AD7945BR	AD7945BR-ND	DAC 12-Bit Multiplying	20-SOIC	9.30	7.44	6.28
AD7945BRZ	AD7945BRZ-ND	DAC 12-Bit Multiplying*	20-SOIC	9.30	7.44	6.28
AD7945BRS	AD7945BRS-ND	DAC 12-Bit Multiplying	20-SSOP	9.30	7.44	6.28
AD7945BRSZ	AD7945BRSZ-ND	DAC 12-Bit Multiplying*	20-SSOP	9.30	7.44	6.28
AD7948BR	AD7948BR-ND	DAC 12-Bit Multiplying	20-SOIC	9.30	7.44	6.28
AD7948BRZ	AD7948BRZ-ND	DAC 12-Bit Multiplying* ***NEW!***	20-SOIC	9.30	7.44	6.28
AD8300AR	AD8300AR-ND	DAC 12-Bit 3V Serial-In	8-SOIC	9.63	8.67	7.69
AD8300ARZ	AD8300ARZ-ND	DAC 12-Bit 3V Serial-In*	8-SOIC	9.63	8.67	7.69
AD8522AR	AD8522AR-ND	DAC 12-Bit Dual 5V	14-SOIC	14.26	12.84	11.39
AD8522ARZ	AD8522ARZ-ND	DAC 12-Bit Dual 5V*	14-SOIC	14.26	12.84	11.39
AD8582AN	AD8582AN-ND	DAC 12-Bit Dual 5V	24-Dip	16.97	15.84	14.71
AD8582AR	AD8582AR-ND	DAC 12-Bit Dual 5V	24-SOIC	16.97	15.84	14.71
AD8582ARZ	AD8582ARZ-ND	DAC 12-Bit Dual 5V*	24-SOIC	16.97	15.84	14.71
AD8801AR	AD8801AR-ND	DAC 8-Bit Octal with Shutdown	16-SOIC	7.66	6.13	5.18
AD8801ARZ	AD8801ARZ-ND	DAC 8-Bit Octal with Shutdown*	16-SOIC	7.66	6.13	5.18
AD8803ARZ	AD8803ARZ-ND	DAC 8-Bit Octal with SD* ***NEW!***	16-SOIC	7.66	6.13	5.18
AD8842AR	AD8842AR-ND	DAC 8-Bit Octal Multiplying	24-SOIC	14.51	13.07	11.59
AD8842ARZ	AD8842ARZ-ND	DAC 8-Bit Octal Multiplying*	24-SOIC	14.51	13.07	11.59
AD9708ARZ	AD9708ARZ-ND	DAC 8-Bit, 100MSPS*	28-SOIC	7.42	5.94	5.01
AD9708ARUZ	AD9708ARUZ-ND	DAC 8-Bit, 100MSPS*	28-TSSOP	7.42	5.94	5.01
AD9709AST	AD9709AST-ND	DAC 8-Bit, 125MSPS	48-LQFP	8.81	7.94	7.04
AD9709ASTZ	AD9709ASTZ-ND	DAC 8-Bit, 125MSPS*	48-LQFP	8.81	7.94	7.04
AD9731BR	AD9731BR-ND	DAC 10-Bit, 170MSPS	28-SOIC	14.58	13.13	11.64
AD9731BRS	AD9731BRS-ND	DAC 10-Bit, 170MSPS	28-SSOP	14.58	13.13	11.64
AD9740ACPZ	AD9740ACPZ-ND	DAC 10-Bit, 165MSPS* ***NEW!***	32-LFCSP	9.88	7.91	6.67
AD9740AR	AD9740AR-ND	DAC 10-Bit, 165MSPS	28-SOIC	9.88	7.91	6.67
AD9740ARU	AD9740ARU-ND	DAC 10-Bit, 165MSPS	28-TSSOP	9.88	7.91	6.67
AD9742ACP	AD9742ACP-ND	DAC 12-Bit, 165MSPS	32-LFCSP	11.66	10.50	9.31
AD9742AR	AD9742AR-ND	DAC 12-Bit, 165MSPS	28-SOIC	11.66	10.50	9.31
AD9742ARUZ	AD9742ARUZ-ND	DAC 12-Bit, 165MSPS*	28-TSSOP	11.66	10.50	9.31
AD9744ACPZ	AD9744ACPZ-ND	DAC 14-Bit, 165MSPS* ***NEW!***	32-LFCSP	14.41	12.98	11.51
AD9744AR	AD9744AR-ND	DAC 14-Bit, 165MSPS	28-SOIC	14.41	12.98	11.51
AD9744ARU	AD9744ARU-ND	DAC 14-Bit, 165MSPS	28-TSSOP	14.41	12.98	11.51
AD9744ARUZ	AD9744ARUZ-ND	DAC 14-Bit, 165MSPS* ***NEW!***	28-TSSOP	14.41	12.98	11.51
AD9748ACP	AD9748ACP-ND	DAC 8-Bit, 165MSPS	32-LFCSP	6.94	5.56	4.69
AD9751ASTZ	AD9751ASTZ-ND	DAC 10-Bit, 300MSPS*	48-LQFP	31.50	29.40	27.30
AD9752AR	AD9752AR-ND	DAC 12-Bit, 125MSPS	28-SOIC	11.76	10.59	9.39

* ***RoHS Compliant***

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ANALOG DEVICES

DATA CONVERSION *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9752ARZ	AD9752ARZ-ND	DAC 12-Bit, 125MSPS*	28-SOIC	11.76	10.59	9.39
AD9752ARUZ	AD9752ARUZ-ND	DAC 12-Bit, 125MSPS High Perf.*	28-TSSOP	11.76	10.59	9.39
AD9753ASTZ	AD9753ASTZ-ND	DAC 12-BIt, 300MSPS* ***NEW!***	48-LQFP	50.70	47.32	43.94
AD9754AR	AD9754AR-ND	DAC 14-Bit, 125MSPS High Perf.	28-SOIC	14.61	13.16	11.67
AD9754ARZ	AD9754ARZ-ND	DAC 14-Bit, 125MSPS High Perf.* ***NEW!***	28-SOIC	14.61	13.16	11.67
AD9754ARU	AD9754ARU-ND	DAC 14-Bit, 125MSPS	28-TSSOP	14.61	13.16	11.67
AD9754ARUZ	AD9754ARUZ-ND	DAC 14-Bit, 125MSPS* ***NEW!***	28-TSSOP	14.61	13.16	11.67
AD9755ASTZ	AD9755ASTZ-ND	DAC 14-Bit, 300MSPS* ***NEW!***	48-LQFP	62.63	58.45	54.28
AD9755-EB	AD9755-EB-ND	Evaluation Board for AD9755	—	337.50	—	—
AD9760AR	AD9760AR-ND	DAC 10-Bit, 125MSPS	28-SOIC	9.70	8.73	7.75
AD9760AR50	AD9760AR50-ND	DAC 10-Bit, 125MSPS	28-SOIC	9.58	8.63	7.65
AD9760ARU	AD9760ARU-ND	DAC 10-Bit, 125MSPS	28-TSSOP	9.70	8.73	7.75
AD9760ARUZ	AD9760ARUZ-ND	DAC 10-Bit, 125MSPS*	28-TSSOP	9.70	8.73	7.75
AD9760ARU50	AD9760ARU50-ND	DAC 10-Bit, 50MSPS	28-TSSOP	9.58	8.63	7.65
AD9761ARS	AD9761ARS-ND	DAC 10-Bit Dual 40MSPS	28-SSOP	15.36	14.34	13.32
AD9761ARSZ	AD9761ARSZ-ND	DAC 10-Bit Dual 40MSPS* ***NEW!***	28-SSOP	15.36	14.34	13.32
AD9762AR	AD9762AR-ND	DAC 12-Bit, 125MSPS	28-SOIC	11.96	10.77	9.55
AD9762ARZ	AD9762ARZ-ND	DAC 12-Bit, 125MSPS* ***NEW!***	28-SOIC	11.96	10.77	9.55
AD9762ARUZ	AD9762ARUZ-ND	DAC 12-Bit, 125MSPS* ***NEW!***	28-TSSOP	11.96	10.77	9.55
AD9763ASTZ	AD9763ASTZ-ND	DAC 10-Bit, Dual 125MSPS* ***NEW!***	48-LQFP	11.76	10.59	9.39
AD9764ARZ	AD9764ARZ-ND	DAC 14-Bit, 125MSPS* ***NEW!***	28-SOIC	15.39	13.86	12.29
AD9764ARU	AD9764ARU-ND	DAC 14-Bit, 125MSPS	28-TSSOP	15.39	12.94	12.29
AD9764ARUZ	AD9764ARUZ-ND	DAC 14-Bit, 125MSPS* ***NEW!***	28-TSSOP	15.39	13.86	12.29
AD9765AST	AD9765AST-ND	DAC 12-Bit, Dual 125MSPS	48-LQFP	18.53	17.29	16.06
AD9765ASTZ	AD9765ASTZ-ND	DAC 12-Bit, Dual 125MSPS*	48-LQFP	18.53	17.29	16.06
AD9767ASTZ	AD9767ASTZ-ND	DAC 14-Bit, Dual 125MSPS* ***NEW!***	48-LQFP	21.18	19.77	18.36
AD9772AAST	AD9772AAST-ND	DAC 14-Bit, 160MSPS	48-LQFP	26.39	24.63	22.87
AD9773BSV	AD9773BSV-ND	DAC 12-Bit, Dual 160MSPS	80-TQFP	39.96	37.30	34.64
AD9774AS	AD9774AS-ND	DAC 14-Bit, 32MSPS	44-MQFP	44.00	41.07	38.13
AD9775BSV	AD9775BSV-ND	DAC 14-Bit, Dual 160MSPS	80-TQFP	54.54	50.91	47.27
AD9775BSVZ	AD9775BSVZ-ND	DAC 14-Bit, Dual 160MSPS*	80-TQFP	54.54	50.91	47.27
AD9777BSVZ	AD9777BSVZ-ND	DAC 16-Bit, Dual 160MSPS* ***NEW!***	80-TQFP	60.00	56.00	52.00
AD9777-EB	AD9777-EB-ND	Evaluation Board for AD9777	—	225.00	—	—
AD9779BSVZ	AD9779BSVZ-ND	DAC 16-Bit, Dual 1.0GSPS* ***NEW!***	100-TQFP	51.09	47.69	44.28
AD9786BSV	AD9786BSV-ND	DAC 16-Bit, Interpolation and Signal Processing	80-TQFP	52.88	49.35	45.83
AD75004KP	AD75004KP-ND	DAC 12-Bit, Quad with Buffer	28-PLCC	53.87	50.28	46.69
ADDAC80-CCD-V	ADDAC80-CCD-V-ND	DAC 12-Bit, Low Cost	24-CDip	82.70	77.19	71.67
ADDAC80D-CBI-V	ADDAC80D-CBI-V-ND	DAC 12-Bit, Low Cost	24-CDip	26.21	24.46	22.72
ADDAC80NZ-CBI-V	ADDAC80NZ-CBI-V-ND	DAC 12-Bit, Binary Mono* ***NEW!***	24-Dip	17.24	16.09	14.94
ADV7120KST30	ADV7120KST30-ND	DAC Video 3-Channel 30MHz	48-TQFP	9.23	8.31	7.37
ADV7120KSTZ30	ADV7120KSTZ30-ND	DAC Video 3-Channel 30MHz*	48-TQFP	9.23	8.31	7.37
ADV7122KST50	ADV7122KST50-ND	DAC Video 3-Channel 50MHz	48-TQFP	12.33	11.10	9.85
ADV7123JSTZ240	ADV7123JSTZ240-ND	DAC Video Triple HS*	48-LQFP	18.71	17.46	16.22
ADV7123KSTZ50	ADV7123KSTZ50-ND	DAC Video 3-Channel 50MHz*	48-LQFP	10.03	9.03	8.01
ADV7123KSTZ140	ADV7123KSTZ140-ND	DAC Video Triple HS*	48-LQFP	12.68	11.42	10.13
ADV7125JST240	ADV7125JST240-ND	DAC Video 3-Ch., 240MHz	48-LQFP	16.63	14.97	13.28
ADV7125JSTZ240	ADV7125JSTZ240-ND	DAC Video 3-Ch., 240MHz* ***NEW!***	48-LQFP	16.63	14.97	13.28
ADV7125JST330	ADV7125JST330-ND	DAC Video 3-Channel 330MHz	48-LQFP	19.46	18.16	16.87
ADV7125KSTZ50	ADV7125KSTZ50-ND	DAC Video 3-Channel 50MHz*	48-LQFP	9.64	7.72	6.51
ADV7125KST140	ADV7125KST140-ND	DAC Video 3-Channel 140MHz	48-LQFP	10.15	9.14	8.10
ADV7125KSTZ140	ADV7125KSTZ140-ND	DAC Video 3-Channel 140MHz*	48-LQFP	10.15	9.14	8.10
ADV7127JRUZ240	ADV7127JRUZ240-ND	DAC Video 240MHz, 3.3/5V* ***NEW!***	24-TSSOP	15.62	14.58	13.54
ADV7127KRUZ50	ADV7127KRUZ50-ND	DAC Video 240MHz Single HS*	24-TSSOP	9.74	7.80	6.58
ADV7127KRUZ140	ADV7127KRUZ140-ND	DAC Video 140MHz, 3.3/5V*	24-TSSOP	12.64	11.39	10.10
ADV7129KS	ADV7129KS-ND	DAC Video Color 192-Bit	304-PQFP	1262.25	1178.10	1093.95
ADV7171KSZ	ADV7171KSZ-ND	DAC Video Encoder NTSC*	44-PQFP	11.66	10.50	9.31
ADV7171KSU	ADV7171KSU-ND	DAC Video Encoder NTSC	44-TQFP	10.00	9.00	7.98
ADV7173KSTZ	ADV7173KSTZ-ND	DAC Video NTSC 6-Channel*	48-LQFP	11.25	10.13	8.98
ADV7177KSZ	ADV7177KSZ-ND	DAC Video NTSC 3-Channel*	44-MQFP	8.38	7.55	6.69
ADV7179BCP	ADV7179BCP-ND	DAC Video NTSC 3-Ch.	40-LFCSP	13.11	11.81	10.47
ADV7179BCPZ	ADV7179BCPZ-ND	DAC Video NTSC 3-Ch.* ***NEW!***	40-LFCSP	13.11	11.81	10.47
ADV7179KCP	ADV7179KCP-ND	DAC Video NTSC 3-Ch.	40-LFCSP	10.93	9.84	8.73
ADV7179KCPZ-REEL	ADV7179KCPZ-REELCT-ND	DAC Video NTSC 3-Ch.* ***NEW!***	40-LFCSP	10.93	9.84	8.73
ADV7179KCPZ-REEL	ADV7179KCPZ-REELTR-ND	DAC Video NTSC 3-Ch.* ***NEW!***	40-LFCSP	19925.00/2,500		
ADV7301AKST	ADV7301AKST-ND	DAC Video HDTV 6-12-Bit	64-LQFP	37.17	34.70	32.22
DAC08AQ	DAC08AQ-ND	DAC 8-Bit Multiply High Speed	16-CDip	9.68	7.75	6.54
DAC08CPZ	DAC08CPZ-ND	DAC 8-Bit Multiply High Speed*	16-Dip	2.40	1.92	1.44
DAC08CSZ	DAC08CSZ-ND	DAC 8-Bit Multiply High Speed*	16-SOIC	2.40	1.92	1.44
DAC08EPZ	DAC08EPZ-ND	DAC 8-Bit Multiply High Speed*	16-Dip	2.70	2.16	1.68
DAC08EQ	DAC08EQ-ND	DAC 8-Bit Multiply High Speed	16-CDip	3.38	2.70	2.10
DAC08HPZ	DAC08HPZ-ND	DAC 8-Bit Multiply High Speed*	16-Dip	4.05	3.24	2.52
DAC10GP	DAC10GP-ND	DAC 10-Bit Multiply High Speed	18-Dip	5.60	4.48	3.78
DAC16FS	DAC16FS-ND	DAC 16-Bit Current Out	24-SOIC	39.03	36.43	33.83
DAC16GS	DAC16GS-ND	DAC 16-Bit Current Out	24-SOIC	49.97	46.64	43.31
DAC312HP	DAC312HP-ND	DAC 12-Bit Multiply High Speed	20-Dip	7.74	6.20	5.23
DAC312HSZ	DAC312HSZ-ND	DAC 12-Bit Multiply High Speed*	20-SOIC	7.74	6.20	5.23
DAC8043AFPZ	DAC8043AFPZ-ND	DAC 12-Bit Multiply Serial In*	8-Dip	8.58	6.87	5.80
DAC8043AFSZ	DAC8043AFSZ-ND	DAC 12-Bit Multiply Serial In*	8-SOIC	8.58	6.87	5.80
DAC8043FP	DAC8043FP-ND	DAC 12-Bit Multiply CMOS	8-Dip	12.41	11.18	9.91
DAC8043FPZ	DAC8043FPZ-ND	DAC 12-Bit Multiply CMOS*	8-Dip	12.41	11.18	9.91
DAC8043GP	DAC8043GP-ND	DAC 12-Bit Multiply CMOS	8-Dip	16.59	15.49	14.38
DAC8143FP	DAC8143FP-ND	DAC 12-Bit Daisy-Chain	16-Dip	9.36	8.43	7.48
DAC8143FSZ	DAC8143FSZ-ND	DAC 12-Bit Daisy-Chain*	16-SOIC	9.36	8.43	7.48
DAC8221FP	DAC8221FP-ND	DAC 12-Bit Dual Buffered	24-Dip	19.44	18.15	16.85
DAC8222FS	DAC8222FS-ND	DAC 12-Bit Dual Buffered	24-SOIC	26.85	25.06	23.27
DAC8222FSZ	DAC8222FSZ-ND	DAC 12-Bit Dual Buffered*	24-SOIC	26.85	25.06	23.27
DAC8222GP	DAC8222GP-ND	DAC 12-Bit Dual Buffered	24-Dip	31.59	29.49	27.38
DAC8248FPZ	DAC8248FPZ-ND	DAC 12-Bit Dual Buffered*	24-Dip	21.92	20.46	19.00
DAC8408FSZ	DAC8408FSZ-ND	DAC 8-Bit Quad with Memory*	28-SOIC	13.91	12.53	11.11
DAC8408FPC	DAC8408FPC-ND	DAC 8-Bit Quad with Memory	28-PLCC	13.91	12.53	11.11
DAC8408FPCZ	DAC8408FPCZ-ND	DAC 8-Bit Quad w/Memory* ***NEW!***	28-PLCC	13.91	12.53	11.11
DAC8412EP	DAC8412EP-ND	DAC 12-Bit Quad Readback	28-Dip	51.41	47.98	44.56
DAC8412FP	DAC8412FP-ND	DAC 12-Bit Quad Readback	28-Dip	42.05	39.25	36.44
DAC8412FPZ	DAC8412FPZ-ND	DAC 12-Bit Quad Readback* ***NEW!***	28-Dip	42.05	39.25	36.44
DAC8412FPC	DAC8412FPC-ND	DAC 12-Bit Quad Readback	28-PLCC	42.05	39.25	36.44
DAC8412FPCZ	DAC8412FPCZ-ND	DAC 12-Bit Quad Readback* ***NEW!***	28-PLCC	42.05	39.25	36.44
DAC8413EP	DAC8413EP-ND	DAC 12-Bit Quad Readback	28-Dip	51.41	47.98	44.56
DAC8413FPCZ	DAC8413FPCZ-ND	DAC 12-Bit Quad Readback*	28-PLCC	42.05	39.25	36.44
DAC8420EP	DAC8420EP-ND	DAC 12-Bit Quad Serial-Out	16-Dip	52.43	48.93	45.44
DAC8420ESZ	DAC8420ESZ-ND	DAC 12-Bit Quad Serial-Out*	16-SOIC	52.43	48.93	45.44
DAC8420FP	DAC8420FP-ND	DAC 12-Bit Quad Serial-Out	16-Dip	44.93	41.93	38.94
DAC8420FS	DAC8420FS-ND	DAC 12-Bit Quad Serial-Out	16-SOIC	44.93	41.93	38.94
DAC8420FSZ	DAC8420FSZ-ND	DAC 12-Bit Quad Serial-Out* ***NEW!***	16-SOIC	44.93	41.93	38.94
DAC8426FS	DAC8426FS-ND	DAC 8-Bit Quad with Voltage Ref.	20-SOIC	24.90	23.24	21.58
DAC8512FPZ	DAC8512FPZ-ND	DAC 12-Bit, 5V Complete*	8-Dip	9.56	7.65	6.46
DAC8512FSZ	DAC8512FSZ-ND	DAC 12-Bit, 5V Complete*	8-SOIC	9.48	7.59	6.40
DAC8562FS	DAC8562FS-ND	DAC 12-Bit, 5V Parallel	20-SOIC	14.11	12.71	11.27
DAC8562FSZ	DAC8562FSZ-ND	DAC 12-Bit, 5V Parallel* ***NEW!***	20-SOIC	14.11	12.71	11.27
DAC8800FPZ	DAC8800FPZ-ND	DAC 8-Bit Octal CMOS*	20-Dip	14.31	12.89	11.43
DAC8800FS	DAC8800FS-ND	DAC 8-Bit Octal CMOS	20-SOIC	14.31	12.89	11.43
DAC8800FS-REEL	DAC8800FS-REELCT-ND	DAC 8-Bit Octal CMOS	20-SOIC	14.31	12.89	11.43
DAC8800FS-REEL	DAC8800FS-REELTR-ND	DAC 8-Bit Octal CMOS	20-SOIC	10609.00/1,000		
DAC8840FP	DAC8840FP-ND	DAC 8-Bit Octal Multiply	24-Dip	15.54	14.51	13.47
DAC8840FS	DAC8840FS-ND	DAC 8-Bit Octal Multiply	24-SOIC	15.54	14.51	13.47
DAC8840FSZ	DAC8840FSZ-ND	DAC 8-Bit Octal Multiply*	24-SOIC	15.54	14.51	13.47
DAC8841FSZ	DAC8841FSZ-ND	DAC 8-Bit Octal 2-Quad*	24-SOIC	15.54	14.51	13.47
PM7226HP	PM7226HP-ND	DAC 8-Bit Quad CMOS	20-Dip	17.76	16.58	15.40
PM7226HS	PM7226HS-ND	DAC 8-Bit Quad CMOS	20-SOP	20.16	18.82	17.48
PM7545FP	PM7545FP-ND	DAC 12-Bit Multiplying	20-Dip	8.53	7.68	6.81
PM7545HP	PM7545HP-ND	DAC 12-Bit Multiplying	20-Dip	8.53	7.68	6.81
PM7528HP	PM7528HP-ND	DAC 8-Bit Dual Multiplying	20-PLCC	5.60	4.48	3.78
PM7548FS	PM7548FS-ND	DAC 12-Bit LC2MOS	20-SOIC	10.86	9.78	8.68
PM7628FP	PM7628FP-ND	DAC 8-Bit Dual Multiplying	20-PLCC	6.02	4.82	4.07

Logarithmic Converter

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADL5306ACP-R2	ADL5306ACP-R2CT-ND	Logarithmic Converter 60dB	16-LFCSP	8.60	7.74	6.87
ADL5306ACP-R2	ADL5306ACP-R2TR-ND	Logarithmic Converter 60dB	16-LFCSP	1644.75/250		

RMS-to-DC

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD536AJD	AD536AJD-ND	True RMS/DC Converter	14-Dip	15.48	14.45	13.42
AD536AJH	AD536AJH-ND	True RMS/DC Converter	TO-100	11.25	10.13	8.98
AD536AJQ	AD536AJQ-ND	True RMS/DC Converter	14-Dip	11.25	10.13	8.98
AD536AKD	AD536AKD-ND	True RMS/DC Converter	14-CDip	32.21	30.06	27.92
AD536AKH	AD536AKH-ND	True RMS/DC Converter	TO-100	17.64	16.47	15.29
AD536ASD	AD536ASD-ND	True RMS/DC Converter	14-CDip	77.82	72.64	67.45
AD536ASH	AD536ASH-ND	True RMS/DC Converter	TO-100	38.03	35.49	32.96
AD636JD	AD636JD-ND	True RMS/DC Converter Mono	14-Dip	14.89	13.41	11.90
AD636JH	AD636JH-ND	True RMS/DC Converter Mono	TO-100	9.31	8.39	7.44
AD637AQ	AD637AQ-ND	True RMS/DC Converter WB	14-Dip	28.91	26.98	25.06
AD637ARZ	AD637ARZ-ND	True RMS/DC Converter WB* ***NEW!***	16-SOIC	26.61	24.84	23.07
AD637BR	AD637BR-ND	True RMS/DC Converter WB	16-SOIC	31.56	29.46	27.36
AD637BRZ	AD637BRZ-ND	True RMS/DC Converter WB* ***NEW!***	16-SOIC	31.56	29.46	27.36
AD637JD	AD637JD-ND	True RMS/DC Converter WB	14-Dip	36.90	34.44	31.98
AD637JQ	AD637JQ-ND	True RMS/DC Converter WB	14-Dip	16.08	15.01	13.94
AD637JR	AD637JR-ND	True RMS/DC Converter WB	16-SOIC	16.43	14.79	13.12
AD637JRZ	AD637JRZ-ND	True RMS/DC Converter WB* ***NEW!***	16-SOIC	16.43	14.79	13.12
AD637KQ	AD637KQ-ND	True RMS/DC Converter WB	14-Dip	27.47	25.64	23.81
AD637SD	AD637SD-ND	True RMS/DC Converter WB	14-CDip	95.07	88.74	82.40
AD736ARZ	AD736ARZ-ND	True RMS/DC Converter LP*	8-SOIC	7.54	6.04	5.09
AD736AQ	AD736AQ-ND	True RMS/DC Converter LP	8-Dip	12.20	10.98	9.74
AD736JN	AD736JN-ND	True RMS/DC Converter LP	8-Dip	7.54	6.04	5.09
AD736JNZ	AD736JNZ-ND	True RMS/DC Converter LP*	8-Dip	7.54	6.04	5.09
AD736JR	AD736JR-ND	True RMS/DC Converter LP	8-SOIC	7.54	6.04	5.09
AD736JRZ	AD736JRZ-ND	True RMS/DC Converter LP* ***NEW!***	8-SOIC	7.54	6.04	5.09
AD736KR	AD736KR-ND	True RMS/DC Converter LP	8-SOIC	11.80	10.62	9.42
AD737JN	AD737JN-ND	True RMS/DC Converter LP	8-Dip	6.00	4.80	4.05
AD737JNZ	AD737JNZ-ND	True RMS/DC Converter LP*	8-Dip	6.00	4.80	4.05
AD737JR	AD737JR-ND	True RMS/DC Converter LP	8-SOIC	6.00	4.80	4.05
AD737JRZ	AD737JRZ-ND	True RMS/DC Converter LP*	8-SOIC	6.00	4.80	4.05

Voltage-to-Frequency

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD537JD	AD537JD-ND	Voltage/Frequency Converter	14-CDip	46.23	43.15	40.07
AD537JH	AD537JH-ND	Voltage/Frequency Converter	TO-100	13.74	12.38	10.98
AD650BD	AD650BD-ND	Voltage Freq./Freq. Voltage Converter	14-Dip	27.27	25.46	23.64
AD650JNZ	AD650JNZ-ND	Voltage Freq./Freq. Voltage Converter*	14-Dip	13.11	11.81	10.47
AD650KN	AD650KN-ND	Voltage Freq./Freq. Voltage Converter	14-Dip	16.39	14.76	13.09
AD650KNZ	AD650KNZ-ND	Voltage Freq./Freq. Voltage Converter* ***NEW!***	14-Dip	16.39	14.76	13.09
AD652BQ	AD652BQ-ND	Voltage/Frequency Converter Sync.	16-Dip	20.37	19.02	17.66
AD652JPZ	AD652JPZ-ND	Voltage/Frequency Converter Sync.*	20-PLCC	14.99	13.50	11.97
AD652KP	AD652KP-ND	Voltage/Frequency Converter Sync.	20-PLCC	17.58	16.41	15.24
AD652KPZ	AD652KPZ-ND	Voltage/Frequency Converter Sync.*	20-PLCC	17.58	16.41	15.24
AD654JNZ	AD654JNZ-ND	Voltage/Frequency Converter Mono*	8-Dip	8.30	6.64	5.61
AD654JR	AD654JR-ND	Voltage/Frequency Converter Mono	8-SOIC	8.30	6.64	5.61
AD654JR-REEL7	AD654JR-REEL7TR-ND	Voltage/Frequency Converter Mono	8-SOIC	3953.25/750		
AD654JRZ	AD654JRZ-ND	Voltage/Frequency Converter Mono*	8-SOIC	8.30	6.64	5.61
AD7741BN	AD7741BN-ND	Voltage/Frequency Converter	8-Dip	4.61	3.69	2.87

ANALOG DEVICES

DIGITAL POTENTIOMETERS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD5160BRJZ5-R2	AD5160BRJZ5-R2CT-ND	Pot. Digital 5K, 256 Pos.*	SOT-23-8	2.30	1.84	1.38
AD5160BRJZ5-R2	AD5160BRJZ5-R2TR-ND	Pot. Digital 5K, 256 Pos.*	SOT-23-8	322.00/250		
AD5160BRJ10-R2	AD5160BRJ10-R2CT-ND	Pot. Digital 10K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5160BRJ10-R2	AD5160BRJ10-R2TR-ND	Pot. Digital 10K, 256 Pos.	SOT-23-8	322.00/250		
AD5160BRJ50-R2	AD5160BRJ50-R2CT-ND	Pot. Digital 50K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5160BRJ50-R2	AD5160BRJ50-R2TR-ND	Pot. Digital 50K, 256 Pos.	SOT-23-8	322.00/250		
AD5160BRJZ50-RL7	AD5160BRJZ50-RL7CT-ND	Pot. Digital 50K, 256 Pos.* ***NEW!***	SOT-23-8	1.58	1.26	.95
AD5160BRJZ50-RL7	AD5160BRJZ50-RL7TR-ND	Pot. Digital 50K, 256 Pos.* ***NEW!***	SOT-23-8	2418.00/3,000		
AD5160BRJ100-R2	AD5160BRJ100-R2CT-ND	Pot. Digital 100K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5160BRJ100-R2	AD5160BRJ100-R2TR-ND	Pot. Digital 100K, 256 Pos.	SOT-23-8	322.00/250		
AD5160BRJZ100-R2	AD5160BRJZ100R2CT-ND	Pot. Digital 100K, 256 Pos.*	SOT-23-8	2.30	1.84	1.38
AD5160BRJZ100-R2	AD5160BRJZ100R2TR-ND	Pot. Digital 100K, 256 Pos.*	SOT-23-8	322.00/250		
AD5161BRM5	AD5161BRM5-ND	Pot. Digital 5K, 256 Pos.	10-MSOP	1.78	1.42	1.07
AD5161BRMZ5	AD5161BRMZ5-ND	Pot. Digital 5K, 256 Pos.* ***NEW!***	10-MSOP	1.78	1.42	1.07
AD5161BRM10	AD5161BRM10-ND	Pot. Digital 10K, 256 Pos.	10-MSOP	1.78	1.42	1.07
AD5161BRMZ10	AD5161BRMZ10-ND	Pot. Digital 10K, 256 Pos.*	10-MSOP	1.78	1.42	1.07
AD5161BRM50	AD5161BRM50-ND	Pot. Digital 50K, 256 Pos.	10-MSOP	1.78	1.42	1.07
AD5161BRMZ50	AD5161BRMZ50-ND	Pot. Digital 50K, 256 Pos.*	10-MSOP	1.78	1.42	1.07
AD5161BRMZ100	AD5161BRMZ100-ND	Pot. Digital 100K, 256 Pos.*	10-MSOP	1.78	1.42	1.07
AD5162BRMZ2.5	AD5162BRMZ2.5-ND	Pot. Dual 2.5K, 256 Pos.* ***NEW!***	10-MSOP	2.48	1.98	1.54
AD5162BRM10	AD5162BRM10-ND	Pot. Dual 10K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5162BRMZ10	AD5162BRMZ10-ND	Pot. Dual 10K, 256 Pos.* ***NEW!***	10-MSOP	2.48	1.98	1.54
AD5162BRM50	AD5162BRM50-ND	Pot. Dual 50K, 256 Pos.	10-MSOP	2.48	1.98	1.54

* ***RoHS Compliant***

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ANALOG DEVICES

DIGITAL POTENTIOMETERS *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD5162BRM100	AD5162BRM100-ND	Pot. Dual 100K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5162BRMZ100	AD5162BRMZ100-ND	Pot. Dual 100K, 256 Pos.*	10-MSOP	2.48	1.98	1.54
AD5170BRM2.5	AD5170BRM2.5-ND	Pot. Digital 2.5K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5170BRMZ2.5	AD5170BRMZ2.5-ND	Pot. Digital 2.5K, 256 Pos.* ***NEW!***	10-MSOP	2.48	1.98	1.54
AD5170BRM10	AD5170BRM10-ND	Pot. Digital 10K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5170BRMZ10	AD5170BRMZ10-ND	Pot. Digital 10K, 256 Pos.* ***NEW!***	10-MSOP	2.48	1.98	1.54
AD5170BRM50	AD5170BRM50-ND	Pot. Digital 50K, 256 Pos.	10-MSOP	2.48	1.98	1.54
AD5170BRMZ50	AD5170BRMZ50-ND	Pot. Digital 50K, 256 Pos.* ***NEW!***	10-MSOP	2.48	1.98	1.54
AD5170BRMZ100	AD5170BRMZ100-ND	Pot. Digital 100K, 256 Pos.* ***NEW!***	10-MSOP	2.48	1.98	1.54
AD5171BRJZ5-R2	AD5171BRJZ5-R2CT-ND	Pot. Digital 5K, OTP*	SOT-23-8	2.43	1.95	1.52
AD5171BRJZ5-R2	AD5171BRJZ5-R2TR-ND	Pot. Digital 5K, OTP*	SOT-23-8	359.00/250		
AD5171BRJZ10-R2	AD5171BRJZ10-R2CT-ND	Pot. Digital 10K, OTP*	SOT-23-8	2.43	1.95	1.52
AD5171BRJZ10-R2	AD5171BRJZ10-R2TR-ND	Pot. Digital 10K, OTP*	SOT-23-8	359.00/250		
AD5171BRJZ50-R2	AD5171BRJZ50-R2CT-ND	Pot. Digital 50K, OTP*	SOT-23-8	2.43	1.95	1.52
AD5171BRJZ50-R2	AD5171BRJZ50-R2TR-ND	Pot. Digital 50K, OTP*	SOT-23-8	359.00/250		
AD5171BRJZ100-R2	AD5171BRJZ100R2CT-ND	Pot. Digital 100K, OTP*	SOT-23-8	2.43	1.95	1.52
AD5171BRJZ100-R2	AD5171BRJZ100R2TR-ND	Pot. Digital 100K, OTP*	SOT-23-8	359.00/250		
AD5171EVAL	AD5171EVAL-ND	Evaluation Board for AD5171	—	39.38	—	—
AD5172BRM2.5	AD5172BRM2.5-ND	Pot. Dual 2.5K, 256 Pos.	10-MSOP	3.24	2.60	2.02
AD5172BRMZ2.5	AD5172BRMZ2.5-ND	Pot. Dual 2.5K, 256 Pos.* ***NEW!***	10-MSOP	3.24	2.60	2.02
AD5172BRM50	AD5172BRM50-ND	Pot. Dual 50K, 256 Pos.	10-MSOP	3.24	2.60	2.02
AD5172BRMZ50	AD5172BRMZ50-ND	Pot. Dual 50K, 256 Pos.*	10-MSOP	3.24	2.60	2.02
AD5172BRM100	AD5172BRM100-ND	Pot. Dual 100K, 256 Pos.	10-MSOP	3.24	2.60	2.02
AD5172BRMZ100	AD5172BRMZ100-ND	Pot. Dual 100K, 256 Pos.*	10-MSOP	3.24	2.60	2.02
AD5172BRMZ100-RL7	AD5172BRMZ100RLCT-ND	Pot. Dual 100K, 256 Pos.*	10-MSOP	3.24	2.60	2.02
AD5172BRMZ100-RL7	AD5172BRMZ100RLTR-ND	Pot. Dual 100K, 256 Pos.*	10-MSOP	1836.00/1,000		
AD5173BRM2.5	AD5173BRM2.5-ND	Pot. Digital Dual 2.5K OTP	10-MSOP	3.24	2.60	2.02
AD5173BRM10	AD5173BRM10-ND	Pot. Digital Dual 10K OTP	10-MSOP	3.24	2.60	2.02
AD5173BRM50	AD5173BRM50-ND	Pot. Digital Dual 50K OTP	10-MSOP	3.24	2.60	2.02
AD5173BRM100	AD5173BRM100-ND	Pot. Digital Dual 100K OTP	10-MSOP	3.24	2.60	2.02
AD5200BRM10	AD5200BRM10-ND	Pot. Digital 10K, 256 Pos.	10-SOIC	2.45	1.96	1.47
AD5204BR10	AD5204BR10-ND	Pot. Digital 10K, Quad 256 Pos.	24-SOIC	5.02	4.02	3.13
AD5204BRZ10	AD5204BRZ10-ND	Pot. Digital 10K, Quad 256 Pos.*	24-SOIC	5.02	4.02	3.13
AD5204BRUZ50	AD5204BRUZ50-ND	Pot. Digital 50K, Quad 256 Pos.* ***NEW!***	24-TSSOP	5.02	4.02	3.13
AD5206BN10	AD5206BN10-ND	Pot. Digital 6-Channel 256 Pos.	24-Dip	5.80	4.64	3.92
AD5206BRU10	AD5206BRU10-ND	Pot. Digital 6-Channel 256 Pos.	24-TSSOP	5.80	4.64	3.92
AD5207BRU100-REEL7	AD5207BRU100RL7CT-ND	Pot. Digital Dual 256 Pos.	14-TSSOP	2.61	2.09	1.63
AD5207BRU100-REEL7	AD5207BRU100RL7TR-ND	Pot. Digital Dual 256 Pos.	14-TSSOP	1479.00/1,000		
AD5220BN10	AD5220BN10-ND	Pot. Digital 10K, 128 Pos.	8-Dip	2.48	1.98	1.49
AD5220BNZ10	AD5220BNZ10-ND	Pot. Digital 10K, 128 Pos.*	8-Dip	2.48	1.98	1.49
AD5220BR10	AD5220BR10-ND	Pot. Digital 10K, 128 Pos.	8-SOIC	2.48	1.98	1.49
AD5220BRZ10	AD5220BRZ10-ND	Pot. Digital 10K, 128 Pos.*	8-SOIC	2.48	1.98	1.49
AD5222BR1M	AD5222BR1M-ND	Pot. Digital Dual 128 Pos.	14-SOIC	4.01	3.21	2.50
AD5227BUJZ10-RL7	AD5227BUJZ10RL7CT-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1.47	1.23	.98
AD5227BUJZ10-RL7	AD5227BUJZ10RL7TR-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1911.00/3,000		
AD5227BUJZ100-RL7	AD5227BUJZ100RLCT-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1.47	1.23	.98
AD5227BUJZ100-RL7	AD5227BUJZ100RLTR-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1911.00/3,000		
AD5228BUJZ10-RL7	AD5228BUJZ10RL7CT-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1.29	1.08	.86
AD5228BUJZ10-RL7	AD5228BUJZ10RL7TR-ND	Pot. Digital Up/Down 10K*	TSOT-23-8	1677.00/3,000		
AD5228BUJZ100-RL7	AD5228BUJZ100RLCT-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1.29	1.08	.86
AD5228BUJZ100-RL7	AD5228BUJZ100RLTR-ND	Pot. Digital Up/Down 100K*	TSOT-23-8	1677.00/3,000		
AD5231BRU10	AD5231BRU10-ND	Pot. Digital 10K, 1024 Pos.	16-TSSOP	4.95	3.96	3.08
AD5231BRUZ10	AD5231BRUZ10-ND	Pot. Digital 10K, 1024 Pos.* ***NEW!***	16-TSSOP	4.95	3.96	3.08
AD5231BRUZ100	AD5231BRUZ100-ND	Pot. Digital 100K, 1024 Pos.*	16-TSSOP	4.95	3.96	3.08
AD5232BRUZ10	AD5232BRUZ10-ND	Pot. Digital Dual 256 Pos.*	16-TSSOP	5.90	4.72	3.99
AD5232EVAL10	AD5232EVAL10-ND	Evaluation Board 10 for AD5232	—	67.50	—	—
AD5233BRU10	AD5233BRU10-ND	Pot. Quad 10K, 64 Pos.	24-TSSOP	5.48	4.39	3.70
AD5233BRU50	AD5233BRU50-ND	Pot. Quad 50K, 64 Pos.	24-TSSOP	5.48	4.39	3.70
AD5233BRU100	AD5233BRU100-ND	Pot. Quad 100K, 64 Pos.	24-TSSOP	5.48	4.39	3.70
AD5235BRUZ25	AD5235BRUZ25-ND	Pot. Dual 25K, 1024 Pos.* ***NEW!***	16-TSSOP	9.38	8.45	7.49
AD5235BRUZ250	AD5235BRUZ250-ND	Pot. Dual 250K, 1024 Pos.* ***NEW!***	16-TSSOP	9.38	8.45	7.49
AD5241BR1M	AD5241BR1M-ND	Pot. Digital 256 Pos.	14-SOIC	2.27	1.82	1.42
AD5242BR1M	AD5242BR1M-ND	Pot. Digital 256 Pos.	16-SOIC	3.13	2.51	1.95
AD5242BRZ1M	AD5242BRZ1M-ND	Pot. Digital 256 Pos.* ***NEW!***	16-SOIC	3.13	2.51	1.95
AD5242BRU10	AD5242BRU10-ND	Pot. Digital 10K, 256 Pos.	16-TSSOP	3.13	2.51	1.95
AD5242BRU100-REEL7	AD5242BRU100RL7CT-ND	Pot. Digital 100K, 256 Pos.	16-TSSOP	3.13	2.51	1.95
AD5242BRU100-REEL7	AD5242BRU100RL7TR-ND	Pot. Digital 100K, 256 Pos.	16-TSSOP	1772.00/1,000		
AD5242BRZ10	AD5242BRZ10-ND	Pot. Digital 10K, 256 Pos.*	16-SOIC	3.13	2.51	1.95
AD5243BRMZ2.5	AD5243BRMZ2.5-ND	Pot. Digital Dual 2.5K I2C* ***NEW!***	10-MSOP	2.48	1.98	1.54
AD5243BRM10	AD5243BRM10-ND	Pot. Digital Dual 10K I2C	10-MSOP	2.48	1.98	1.54
AD5243BRMZ10	AD5243BRMZ10-ND	Pot. Digital Dual 10K I2C*	10-MSOP	2.48	1.98	1.54
AD5243BRM50	AD5243BRM50-ND	Pot. Digital Dual 50K I2C	10-MSOP	2.48	1.98	1.54
AD5243BRM100	AD5243BRM100-ND	Pot. Digital Dual 100K I2C	10-MSOP	2.48	1.98	1.54
AD5243BRMZ100	AD5243BRMZ100-ND	Pot. Digital Dual 100K I2C*	10-MSOP	2.48	1.98	1.54
AD5245BRJZ5-R2	AD5245BRJZ5-R2CT-ND	Pot. Digital 5K, 256 Pos.* ***NEW!***	SOT-23-8	2.30	1.84	1.38
AD5245BRJZ5-R2	AD5245BRJZ5-R2TR-ND	Pot. Digital 5K, 256 Pos.* ***NEW!***	SOT-23-8	322.00/250		
AD5245BRJ10-R2	AD5245BRJ10-R2CT-ND	Pot. Digital 10K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5245BRJ10-R2	AD5245BRJ10-R2TR-ND	Pot. Digital 10K, 256 Pos.	SOT-23-8	322.00/250		
AD5245BRJZ10-R2	AD5245BRJZ10-R2CT-ND	Pot. Digital 10K, 256 Pos.* ***NEW!***	SOT-23-8	2.30	1.84	1.38
AD5245BRJZ10-R2	AD5245BRJZ10-R2TR-ND	Pot. Digital 10K, 256 Pos.* ***NEW!***	SOT-23-8	322.00/250		
AD5245BRJ50-R2	AD5245BRJ50-R2CT-ND	Pot. Digital 50K, 256 Pos.	SOT-23-8	2.30	1.84	1.38
AD5245BRJ50-R2	AD5245BRJ50-R2TR-ND	Pot. Digital 50K, 256 Pos.	SOT-23-8	322.00/250		
AD5245BRJZ50-R2	AD5245BRJZ50-R2CT-ND	Pot. Digital 50K, 256 Pos.* ***NEW!***	SOT-23-8	2.30	1.84	1.38
AD5245BRJZ50-R2	AD5245BRJZ50-R2TR-ND	Pot. Digital 50K, 256 Pos.* ***NEW!***	SOT-23-8	322.00/250		
AD5245BRJZ100-R2	AD5245BRJZ100-R2CT-ND	Pot. Digital 100K, 256 Pos.* ***NEW!***	SOT-23-8	2.30	1.84	1.38
AD5245BRJZ100-R2	AD5245BRJZ100-R2TR-ND	Pot. Digital 100K, 256 Pos.* ***NEW!***	SOT-23-8	322.00/250		
AD5246BKS5-R2	AD5246BKS5-R2CT-ND	Pot. Digital 5K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5246BKS5-R2	AD5246BKS5-R2TR-ND	Pot. Digital 5K, 128 Pos.	SC70-6	262.50/250		
AD5246BKSZ5-RL7	AD5246BKSZ5-RL7CT-ND	Pot. Digital 5K, 128 Pos.* ***NEW!***	SC70-6	1.45	1.16	.87
AD5246BKSZ5-RL7	AD5246BKSZ5-RL7TR-ND	Pot. Digital 5K, 128 Pos.* ***NEW!***	SC70-6	2226.00/3,000		
AD5246BKS10-R2	AD5246BKS10-R2CT-ND	Pot. Digital 10K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5246BKS10-R2	AD5246BKS10-R2TR-ND	Pot. Digital 10K, 128 Pos.	SC70-6	262.50/250		
AD5246BKS50-R2	AD5246BKS50-R2CT-ND	Pot. Digital 50K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5246BKS50-R2	AD5246BKS50-R2TR-ND	Pot. Digital 50K, 128 Pos.	SC70-6	262.50/250		
AD5246BKS100-R2	AD5246BKS100-R2CT-ND	Pot. Digital 100K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5246BKS100-R2	AD5246BKS100-R2TR-ND	Pot. Digital 100K, 128 Pos.	SC70-6	262.50/250		
AD5246BKSZ100-R2	AD5246BKSZ100R2CT-ND	Pot. Digital 100K, 128 Pos.*	SC70-6	1.88	1.50	1.13
AD5246BKSZ100-R2	AD5246BKSZ100R2TR-ND	Pot. Digital 100K, 128 Pos.*	SC70-6	262.50/250		

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD5246BKSZ100-RL7	AD5246BKSZ100RLCT-ND	Pot. Digital 100K, 128 Pos.*	SC70-6	1.45	1.16	.87
AD5246BKSZ100-RL7	AD5246BKSZ100RLTR-ND	Pot. Digital 100K, 128 Pos.*	SC70-6	2226.00/3,000		
AD5247BKS5-R2	AD5247BKS5-R2CT-ND	Pot. Digital 5K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5247BKS5-R2	AD5247BKS5-R2TR-ND	Pot. Digital 5K, 128 Pos.	SC70-6	262.50/250		
AD5247BKS10-R2	AD5247BKS10-R2CT-ND	Pot. Digital 10K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5247BKS10-R2	AD5247BKS10-R2TR-ND	Pot. Digital 10K, 128 Pos.	SC70-6	262.50/250		
AD5247BKS50-R2	AD5247BKS50-R2CT-ND	Pot. Digital 50K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5247BKS50-R2	AD5247BKS50-R2TR-ND	Pot. Digital 50K, 128 Pos.	SC70-6	262.50/250		
AD5247BKS100-R2	AD5247BKS100-R2CT-ND	Pot. Digital 100K, 128 Pos.	SC70-6	1.88	1.50	1.13
AD5247BKS100-R2	AD5247BKS100-R2TR-ND	Pot. Digital 100K, 128 Pos.	SC70-6	262.50/250		
AD5248BRM2.5	AD5248BRM2.5-ND	Pot. Digital Dual 2.5K I2C	10-MSOP	2.48	1.98	1.54
AD5248BRMZ2.5	AD5248BRMZ2.5-ND	Pot. Digital Dual 2.5K I2C*	10-MSOP	2.48	1.98	1.54
AD5248BRM10	AD5248BRM10-ND	Pot. Digital Dual 10K I2C	10-MSOP	2.48	1.98	1.54
AD5248BRM50	AD5248BRM50-ND	Pot. Digital Dual 50K I2C	10-MSOP	2.48	1.98	1.54
AD5248BRM100	AD5248BRM100-ND	Pot. Digital Dual 100K I2C	10-MSOP	2.48	1.98	1.54
AD5252BRU1	AD5252BRU1-ND	Pot. Digital Dual 1K, 256 Pos.	14-TSSOP	5.26	4.21	3.56
AD5252BRUZ1	AD5252BRUZ1-ND	Pot. Digital Dual 1K, 256 Pos.*	14-TSSOP	5.26	4.21	3.56
AD5252BRUZ10	AD5252BRUZ10-ND	Pot. Digital Dual 10K, 256 Pos.* ***NEW!***	14-TSSOP	5.26	4.21	3.56
AD5252BRUZ100	AD5252BRUZ100-ND	Pot. Digital Dual 100K, 256 Pos.* ***NEW!***	14-TSSOP	5.26	4.21	3.56
AD5253BRU1	AD5253BRU1-ND	Pot. Digital Quad 1K, 64 Pos.	20-TSSOP	5.46	4.37	3.69
AD5253BRU10	AD5253BRU10-ND	Pot. Digital Quad 10K, 64 Pos.	20-TSSOP	5.46	4.37	3.69
AD5253BRU100	AD5253BRU100-ND	Pot. Digital Quad 100K, 64 Pos.	20-TSSOP	5.46	4.37	3.69
AD5254BRUZ1	AD5254BRUZ1-ND	Pot. Digital Quad 1K, 256 Pos.*	20-TSSOP	6.62	5.30	4.47
AD5254BRU10	AD5254BRU10-ND	Pot. Digital Quad 10K, 256 Pos.	20-TSSOP	6.62	5.30	4.47
AD5254BRUZ10	AD5254BRUZ10-ND	Pot. Digital Quad 10K, 256 Pos.* ***NEW!***	20-TSSOP	6.62	5.30	4.47
AD5254BRU100	AD5254BRU100-ND	Pot. Digital Quad 100K, 256 Pos.	20-TSSOP	6.62	5.30	4.47
AD5254BRUZ100	AD5254BRUZ100-ND	Pot. Digital Quad 100K, 256 Pos.* ***NEW!***	20-TSSOP	6.62	5.30	4.47
AD5255BRU25	AD5255BRU25-ND	Pot. Digital 25K, 3-Ch.	24-TSSOP	9.38	8.45	7.49
AD5255BRU250	AD5255BRU250-ND	Pot. Digital 250K, 3-Ch.	24-TSSOP	9.38	8.45	7.49
AD5259BRMZ10	AD5259BRMZ10-ND	Pot. Digital 10K, 256 Pos.*	10-MSOP	2.48	1.98	1.49
AD5259BRMZ100	AD5259BRMZ100-ND	Pot. Digital 100K, 256 Pos.*	10-MSOP	2.48	1.98	1.49
AD5260BRUZ20	AD5260BRUZ20-ND	Pot. Digital 20K, 256 Pos.* ***NEW!***	14-TSSOP	4.43	3.55	2.76
AD5260BRU50	AD5260BRU50-ND	Pot. Digital 50K, 256 Pos.	14-TSSOP	4.43	3.55	2.76
AD5260BRUZ50	AD5260BRUZ50-ND	Pot. Digital 50K, 256 Pos.*	14-TSSOP	4.43	3.55	2.76
AD5260BRU200	AD5260BRU200-ND	Pot. Digital 200K, 256 Pos.	14-TSSOP	4.43	3.55	2.76
AD5260BRUZ200	AD5260BRUZ200-ND	Pot. Digital 200K, 256 Pos.* ***NEW!***	14-TSSOP	4.43	3.55	2.76
AD5262BRU20	AD5262BRU20-ND	Pot. Dual 20K, 256 Pos.	16-TSSOP	4.86	3.89	3.03
AD5262BRUZ20	AD5262BRUZ20-ND	Pot. Dual 20K, 256 Pos.*	16-TSSOP	4.86	3.89	3.03
AD5262BRU50	AD5262BRU50-ND	Pot. Dual 50K, 256 Pos.	16-TSSOP	4.86	3.89	3.03
AD5262BRUZ50	AD5262BRUZ50-ND	Pot. Dual 50K, 256 Pos.*	16-TSSOP	4.86	3.89	3.03
AD5262BRU200	AD5262BRU200-ND	Pot. Dual 200K, 256 Pos.	16-TSSOP	4.86	3.89	3.03
AD5262BRUZ200	AD5262BRUZ200-ND	Pot. Dual 200K, 256 Pos.*	16-TSSOP	4.86	3.89	3.03
AD5263BRU20	AD5263BRU20-ND	Pot. Quad 20K, 256 Pos.	24-TSSOP	7.00	5.60	4.73
AD5263BRUZ20	AD5263BRUZ20-ND	Pot. Quad 20K, 256 Pos.*	24-TSSOP	7.00	5.60	4.73
AD5263BRUZ50	AD5263BRUZ50-ND	Pot. Quad 50K, 256 Pos.* ***NEW!***	24-TSSOP	7.00	5.60	4.73
AD5263BRU200	AD5263BRU200-ND	Pot. Quad 200K, 256 Pos.	24-TSSOP	7.00	5.60	4.73
AD5263BRUZ200	AD5263BRUZ200-ND	Pot. Quad 200K, 256 Pos.* ***NEW!***	24-TSSOP	7.00	5.60	4.73
AD5263EVAL	AD5263EVAL-ND	Evaluation Board for AD5263	—	67.50	—	—
AD5273BRJ1-R2	AD5273BRJ1-R2CT-ND	Pot. Digital 1K, 64 Pos.	SOT-23-8	1.88	1.50	1.13
AD5273BRJ1-R2	AD5273BRJ1-R2TR-ND	Pot. Digital 1K, 64 Pos.	SOT-23-8	262.50/250		
AD5273BRJ10-R2	AD5273BRJ10-R2CT-ND	Pot. Digital 10K, 64 Pos.	SOT-23-8	1.88	1.50	1.13
AD5273BRJ10-R2	AD5273BRJ10-R2TR-ND	Pot. Digital 10K, 64 Pos.	SOT-23-8	262.50/250		
AD5273BRJ50-R2	AD5273BRJ50-R2CT-ND	Pot. Digital 50K, 64 Pos.	SOT-23-8	1.88	1.50	1.13
AD5273BRJ50-R2	AD5273BRJ50-R2TR-ND	Pot. Digital 50K, 64 Pos.	SOT-23-8	262.50/250		
AD5273BRJ100-R2	AD5273BRJ100-R2CT-ND	Pot. Digital 100K, 64 Pos.	SOT-23-8	1.88	1.50	1.13
AD5273BRJ100-R2	AD5273BRJ100-R2TR-ND	Pot. Digital 100K, 64 Pos.	SOT-23-8	262.50/250		
AD5273BRJZ10-R7	AD5273BRJZ10-R7CT-ND	Pot. Digital 10K, 64 Pos.*	SOT-23-8	1.88	1.50	1.13
AD5273BRJZ10-R7	AD5273BRJZ10-R7TR-ND	Pot. Digital 10K, 64 Pos.*	SOT-23-8	2880.00/3,000		
AD5280BRU20	AD5280BRU20-ND	Pot. Digital 20K, 256 Pos.	14-TSSOP	4.43	3.55	2.76
AD5280BRUZ20	AD5280BRUZ20-ND	Pot. Digital 20K, 256 Pos.*	14-TSSOP	4.43	3.55	2.76
AD5280BRU50	AD5280BRU50-ND	Pot. Digital 50K, 256 Pos.	14-TSSOP	4.43	3.55	2.76
AD5280BRUZ50	AD5280BRUZ50-ND	Pot. Digital 50K, 256 Pos.*	14-TSSOP	4.43	3.55	2.76
AD5280BRU200	AD5280BRU200-ND	Pot. Digital 200K, 256 Pos.	14-TSSOP	4.43	3.55	2.76
AD5282BRU20	AD5282BRU20-ND	Dual Pot. 20K, 256 Pos.	16-TSSOP	4.86	3.89	3.03
AD5282BRUZ20	AD5282BRUZ20-ND	Dual Pot. 20K, 256 Pos.* ***NEW!***	16-TSSOP	4.86	3.89	3.03
AD5282BRU50	AD5282BRU50-ND	Dual Pot. 50K, 256 Pos.	16-TSSOP	4.86	3.89	3.03
AD5282BRUZ50	AD5282BRUZ50-ND	Dual Pot. 50K, 256 Pos.* ***NEW!***	16-TSSOP	4.86	3.89	3.03
AD5282BRUZ200	AD5282BRUZ200-ND	Dual Pot. 200K, 256 Pos.* ***NEW!***	16-TSSOP	4.86	3.89	3.03
AD5290YRMZ10	AD5290YRMZ10-ND	Pot. Digital 10K, 256 Pos.* ***NEW!***	10-MSOP	4.86	3.89	3.03
AD5290YRMZ50	AD5290YRMZ50-ND	Pot. Digital 50K, 256 Pos.* ***NEW!***	10-MSOP	4.86	3.89	3.03
AD5290YRMZ100	AD5290YRMZ100-ND	Pot. Digital 100K, 256 Pos.* ***NEW!***	10-MSOP	4.86	3.89	3.03
AD7376AR10	AD7376AR10-ND	Pot. Digital 10K, 128 Pos.	16-SOIC	5.08	4.07	3.43
AD7376AR1M	AD7376AR1M-ND	Pot. Digital 10K, 128 Pos.	16-SOIC	5.08	4.07	3.43
AD7376ARUZ10-R7	AD7376ARUZ10-R7CT-ND	Pot. Digital 10K, 128 Pos.*	14-TSSOP	5.08	4.07	3.43
AD7376ARUZ10-R7	AD7376ARUZ10-R7TR-ND	Pot. Digital 10K, 128 Pos.*	14-TSSOP	3175.00/1,000		
AD7376ARU50	AD7376ARU50-ND	Pot. Digital 10K, 128 Pos.	14-TSSOP	5.08	4.07	3.43
AD8400AR1	AD8400AR1-ND	Pot. Digital 8-Bit, 1K, 1-Channel	8-SOIC	2.50	2.00	1.56
AD8400ARZ1	AD8400ARZ1-ND	Pot. Digital 8-Bit, 1K, 1-Channel*	8-SOIC	2.50	2.00	1.56
AD8400AR10	AD8400AR10-ND	Pot. Digital 8-Bit, 10K, 1-Channel	8-SOIC	2.50	2.00	1.56
AD8400ARZ10	AD8400ARZ10-ND	Pot. Digital 8-Bit, 10K, 1-Channel*	8-SOIC	2.50	2.00	1.56
AD8400AR50	AD8400AR50-ND	Pot. Digital 8-Bit, 50K, 1-Channel	8-SOIC	2.50	2.00	1.56
AD8400AR100	AD8400AR100-ND	Pot. Digital 8-Bit, 100K, 1-Channel	8-SOIC	2.50	2.00	1.56
AD8400ARZ100	AD8400ARZ100-ND	Pot. Digital 8-Bit, 100K, 1-Channel*	8-SOIC	2.50	2.00	1.56
AD8402AN10	AD8402AN10-ND	Pot. Digital 8-Bit, 10K, 2-Ch.	14-Dip	3.78	3.03	2.36
AD8402AR1	AD8402AR1-ND	Pot. Digital 8-Bit, 1K, 2-Ch.	14-SOIC	3.78	3.03	2.36
AD8402ARZ10	AD8402ARZ10-ND	Pot. Digital 8-Bit, 10K, 2-Ch.* ***NEW!***	14-SOIC	3.78	3.03	2.36
AD8402ARZ50	AD8402ARZ50-ND	Pot. Digital 8-Bit, 50K, 2-Channel* ***NEW!***	14-SOIC	3.78	3.03	2.36
AD8402AR100	AD8402AR100-ND	Pot. Digital 8-Bit, 100K, 2-Ch.	14-SOIC	3.78	3.03	2.36
AD8402ARU10	AD8402ARU10-ND	Pot. Digital 8-Bit, 1K, 2-Channel	14-TSSOP	3.78	3.03	2.36
AD8403ARUZ1	AD8403ARUZ1-ND	Pot. Digital 8-Bit, 1K, 4-Channel*	24-TSSOP	5.08	4.07	3.43
AD8403ARZ10	AD8403ARZ10-ND	Pot. Digital 8-Bit, 10K, 4-Ch.* ***NEW!***	24-SOIC	5.08	4.07	3.43
AD8403AR10-REEL	AD8403AR10-REELCT-ND	Pot. Digital 8-Bit, 10K, 4-Channel	24-SOIC	5.08	4.07	3.43
AD8403AR10-REEL	AD8403AR10-REELTR-ND	Pot. Digital 8-Bit, 10K, 4-Channel	24-SOIC	3175.00/1,000		
AD8403ARU10	AD8403ARU10-ND	Pot. Digital 8-Bit, 10K, 4-Channel	24-TSSOP	5.08	4.07	3.43
AD8403ARUZ10	AD8403ARUZ10-ND	Pot. Digital 8-Bit, 10K, 4-Channel*	24-TSSOP	5.08	4.07	3.43

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ANALOG DEVICES

DIGITAL POTENTIOMETERS *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8403ARU10-REEL	AD8403ARU10-RLCT-ND	Pot. Digital 8-Bit, 10K, 4-Channel	24-TSSOP	5.08	4.07	3.43
AD8403ARU10-REEL	AD8403ARU10-RLTR-ND	Pot. Digital 8-Bit, 10K, 4-Channel	24-TSSOP	7875.00/2,500		
AD8403AR50	AD8403AR50-ND	Pot. Digital 8-Bit, 50K, 4-Channel	24-SOIC	5.08	4.07	3.43
AD8403AR100	AD8403AR100-ND	Pot. Digital 8-Bit, 100K, 4-Channel	24-SOIC	5.08	4.07	3.43
AD8403ARU100	AD8403ARU100-ND	Pot. Digital 8-Bit, 100K, 4-Channel	24-TSSOP	5.14	4.12	3.47
AD8403ARUZ100	AD8403ARUZ100-ND	Pot. Digital 8-Bit, 100K, 4-Channel*	24-TSSOP	5.14	4.12	3.47

Rheostat

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADN2850BCP25	ADN2850BCP25-ND	Pot. Digital Dual 25K 10-Bit	16-LFCSP	10.83	9.75	8.65
ADN2850BCPZ25	ADN2850BCPZ25-ND	Pot. Digital Dual 25K 10-Bit* ***NEW!***	16-LFCSP	10.83	9.75	8.65
ADN2850BCP250	ADN2850BCP250-ND	Dual 1024 Position Prog. Resistor	16-LFCSP	14.63	11.70	9.10
ADN2860ACPZ25-RL7	ADN2860ACPZ25RLCT-ND	Pot. Digital 25K, 3-Channel*	24-LFCSP	9.83	8.85	7.85
ADN2860ACPZ25-RL7	ADN2860ACPZ25RLTR-ND	Pot. Digital 25K, 3-Channel*	24-LFCSP	10930.50/1,500		
ADN2860ACPZ250-RL7	ADN2860ACPZ250RCT-ND	Pot. Digital 250K, 3-Channel*	24-LFCSP	9.83	8.85	7.85
ADN2860ACPZ250-RL7	ADN2860ACPZ250RTR-ND	Pot. Digital 250K, 3-Channel*	24-LFCSP	10930.50/1,500		

ANALOG DEVICES

DISPLAY AND VIDEO CONVERTERS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD723ARU	AD723ARU-ND	RGB to NTSC/PAL Encoder	28-TSSOP	7.08	5.67	4.78
AD723ARUZ	AD723ARUZ-ND	RGB to NTSC/PAL Encoder* ***NEW!***	28-TSSOP	7.08	5.67	4.78
AD725AR	AD725AR-ND	Encoder RGB to NTSC/PAL	16-SOIC	9.14	7.32	6.17
AD725ARZ	AD725ARZ-ND	Encoder RGB to NTSC/PAL*	16-SOIC	9.14	7.32	6.17
AD725-EB	AD725-EB-ND	Evaluation Board for AD725	—	367.50	—	—
ADV202BBC-115	ADV202BBC-115-ND	JPEG2000 Video Codec	121-BGA	52.77	49.26	45.74
ADV202BBC-150	ADV202BBC-150-ND	JPEG2000 Video Codec	144-CSBGA	70.59	65.89	61.18
ADV202BBCZ-150	ADV202BBCZ-150-ND	JPEG2000 Video Codec*	144-CSBGA	70.59	65.89	61.18
ADV601LCJST	ADV601LCJST-ND	Video Encoder/Decoder	120-LQFP	51.54	48.11	44.67
ADV601LCJSTZ	ADV601LCJSTZ-ND	Video Encoder/Decoder* ***NEW!***	120-LQFP	51.54	48.11	44.67
ADV7181BCP	ADV7181BCP-ND	Multiformat SDTV Video Decoder	64-LFCSP	13.33	12.00	10.64
ADV7181BST	ADV7181BST-ND	Multiformat SDTV Video Decoder	64-LQFP	13.33	12.00	10.64
ADV7183ABST	ADV7183ABST-ND	Multiformat SDTV Video Decoder	80-LQFP	19.12	15.30	12.91
ADV7183KST	ADV7183KST-ND	Multiformat SDTV Video Decoder	80-LQFP	16.61	15.50	14.40
ADV7185KST	ADV7185KST-ND	Multiformat SDTV Video Decoder	80-LQFP	45.15	42.14	39.13
ADV7189KST	ADV7189KST-ND	Multiformat SDTV Video Decoder	80-LQFP	45.90	36.72	30.99
ADV7194KSTZ	ADV7194KSTZ-ND	Video Encoder EXT-10*	80-LQFP	44.93	41.93	38.94
ADVFC32BH	ADVFC32BH-ND	Voltage/Freq. and Freq./Voltage Converter -25-85°C	TO-100	12.06	10.86	9.63
ADVFC32KN	ADVFC32KN-ND	Voltage/Freq. and Freq./Voltage Converter 0-70°C	14-Dip	9.01	8.12	7.20
ADVFC32KNZ	ADVFC32KNZ-ND	Voltage/Freq. and Freq./Voltage Converter 0-70°C* ***NEW!***	14-Dip	9.01	8.12	7.20
ADVFC32SH	ADVFC32SH-ND	Voltage/Freq. and Freq./Voltage Converter -55-125°C	TO-100	16.23	15.15	14.07

Analog

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9882KST-100	AD9882KST-100-ND	Analog Interface Dual	100-LQFP	11.18	10.07	8.93
AD9882KSTZ-100	AD9882KSTZ-100-ND	Analog Interface Dual*	100-LQFP	11.18	10.07	8.93
AD9882KSTZ-140	AD9882KSTZ-140-ND	Analog Interface Dual*	100-LQFP	12.89	11.61	10.30
AD9883ABSTZ-110	AD9883ABSTZ-110-ND	Flat Panel Interface*	80-LQFP	12.03	10.83	9.61
AD9883AKSTZ-110	AD9883AKSTZ-110-ND	Flat Panel Interface*	80-LQFP	7.22	5.78	4.88
AD9883AKST-140	AD9883AKST-140-ND	Flat Panel Interface	80-LQFP	9.28	7.43	6.27
AD9884AKS-100	AD9884AKS-100-ND	Analog Interface, 100MSPS	128-MQFP	12.46	11.22	9.95
AD9884AKS-140	AD9884AKS-140-ND	Analog Interface, 140MSPS	128-MQFP	17.03	15.89	15.10
AD9884AKSZ-140	AD9884AKSZ-140-ND	Analog Interface, 140MSPS*	128-MQFP	14.19	13.25	12.30
AD9887AKS-100	AD9887AKS-100-ND	Analog Interface Dual	160-MQFP	17.37	16.22	15.06
AD9887AKS-140	AD9887AKS-140-ND	Analog Interface Dual	160-MQFP	19.85	18.53	17.20
AD9887AKSZ-170	AD9887AKSZ-170-ND	Analog Interface Dual*	160-MQFP	26.31	24.56	22.81
AD9887KS-140	AD9887KS-140-ND	Analog Interface Dual	160-MQFP	19.85	18.53	17.20
AD9888KS-140	AD9888KS-140-ND	Analog Interface, 140MSPS	128-MQFP	15.48	13.01	12.36
AD9888KSZ-140	AD9888KSZ-140-ND	Analog Interface, 140MSPS*	128-MQFP	15.48	13.94	12.36
AD9888KSZ-170	AD9888KSZ-170-ND	Analog Interface, 170MSPS*	128-MQFP	18.57	17.34	16.10
AD9888KSZ-205	AD9888KSZ-205-ND	Analog Interface, 205MSPS*	128-MQFP	26.31	24.56	22.81

ANALOG DEVICES

EVALUATION BOARDS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD6624S/PCB	AD6624S/PCB-ND	Evaluation Board Signal Processor AD6624	—	562.50	—	—
EVAL-ADG888EB	EVAL-ADG888EB-ND	Evaluation Board for ADG888 ***NEW!***	—	180.00	—	—
EVAL-ADG2128EB	EVAL-ADG2128EB-ND	Evaluation Board for ADG2128 ***NEW!***	—	168.75	—	—
EVAL-AD5379EB	EVAL-AD5379EB-ND	Evaluation Board for AD5379	—	199.00	—	—
EVAL-ADUC7026QS	EVAL-ADUC7026QS-ND	Evaluation Board for ADUC7026/7027	—	90.67	—	—
EVAL-ADUSB1	EVAL-ADUSB1-ND	Evaluation Board for ADUSB1	—	118.80	—	—
EVAL-CONTROL BRD3	EVAL-CONTROL BRD3-ND	Evaluation Board Control	—	281.25	—	—
SSM2167-EVAL	SSM2167-EVAL-ND	Evaluation Board for SSM2167	—	56.25	—	—

ANALOG DEVICES

FIBER OPTICS AND NETWORKS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD809BR	AD809BR-ND	Synth. Frequency 155.52MHz	16-SOIC	8.26	6.61	5.58
ADN2807ACP	ADN2807ACP-ND	Clock/Data Recovery with Amp	48-LFCSP	16.29	15.21	14.12
ADN2811ACP-CML	ADN2811ACP-CML-ND	Recover Clock/Data	48-LFCSP	55.47	51.78	48.08
ADN2812ACPZ	ADN2812ACPZ-ND	Clock/Data Recovery with Amp* ***NEW!***	32-LFCSP	92.84	86.65	80.46
ADN2819ACP-CML	ADN2819ACP-CML-ND	Recover Clock/Data	48-LFCSP	71.79	67.01	62.22
ADN2830ACP32	ADN2830ACP32-ND	Controller Power Wave Laser	32-LFCSP	15.99	14.93	13.86
ADN2841ACP-32	ADN2841ACP-32-ND	Driver Laser Diode 5V	32-LFCSP	24.06	22.46	20.86
ADN2841ACPZ-32	ADN2841ACPZ-32-ND	Driver Laser Diode 5V* ***NEW!***	32-LFCSP	24.06	22.46	20.86
ADN2847ACP-32	ADN2847ACP-32-ND	Driver Laser Diode 3.3V	32-LFCSP	15.98	14.39	12.76
ADN2847ACP-48	ADN2847ACP-48-ND	Driver Laser Diode 3.3V	48-LFCSP	15.98	14.39	12.76
ADN2848ACP-32	ADN2848ACP-32-ND	Driver Laser Diode 3.3V	32-LFCSP	9.13	8.22	7.29
ADN2848ACPZ-32	ADN2848ACPZ-32-ND	Driver Laser Diode 3.3V* ***NEW!***	32-LFCSP	9.13	8.22	7.29
ADN2870ACPZ	ADN2870ACPZ-ND	Driver Laser Diode 3.3V*	24-LFCSP	9.46	7.57	6.39
ADN2890ACP-RL7	ADN2890ACP-RL7CT-ND	3.3V, 2.7Gb/s Limiting Amp	16-LFCSP	8.00	6.40	5.40
ADN2890ACP-RL7	ADN2890ACP-RL7TR-ND	3.3V, 2.7Gb/s Limiting Amp	16-LFCSP	7500.00/1,500		
ADN2890ACPZ-RL7	ADN2890ACPZ-RL7CT-ND	3.3V, 2.7Gb/s Limiting Amp* ***NEW!***	16-LFCSP	8.00	6.40	5.40
ADN2890ACPZ-RL7	ADN2890ACPZ-RL7TR-ND	3.3V, 2.7Gb/s Limiting Amp* ***NEW!***	16-LFCSP	7500.00/1,500		

ANALOG DEVICES

HARDWARE MONITORS AND THERMAL MANAGEMENT

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM1027ARQ	ADM1027ARQ-ND	Thermal Controller Volt./Monitor	24-QSOP	9.00	7.20	6.08
ADM1027ARQZ	ADM1027ARQZ-ND	Thermal Controller Volt./Monitor*	24-QSOP	9.00	7.20	6.08
ADM1031ARQZ	ADM1031ARQZ-ND	Sensor 2-Temp/Fan Control*	16-QSOP	8.80	7.04	5.94
ADM1032ARZ	ADM1032ARZ-ND	Temp. Monitor Default Set at 85°C*	8-SOIC	5.90	4.72	3.99
ADM1032AR-1	ADM1032AR-1-ND	Temp. Monitor Default Set at 108°C	8-SOIC	5.90	4.72	3.99
ADM1032ARM	ADM1032ARM-ND	Temp. Monitor Default Set at 85°C	8-MSOP	5.90	4.72	3.99
ADM1032ARMZ	ADM1032ARMZ-ND	Temp. Monitor Default Set at 85°C*	8-MSOP	5.90	4.72	3.99
ADM1032ARM-1	ADM1032ARM-1-ND	Temp. Monitor Default Set at 108°C	8-MSOP	5.90	4.72	3.99
ADM1033ARQ	ADM1033ARQ-ND	Thermal Monitor/Fan Speed Controller	16-QSOP	7.64	6.12	5.16
ADM1033ARQZ	ADM1033ARQZ-ND	Thermal Monitor/Fan Speed Controller*	16-QSOP	7.64	6.12	5.16
ADM1034ARQ	ADM1034ARQ-ND	Thermal Monitor/Fan Speed Controller	16-QSOP	7.94	6.36	5.36
ADM1034ARQZ	ADM1034ARQZ-ND	Thermal Monitor/Fan Speed Controller*	16-QSOP	7.94	6.36	5.36
ADM1060ARUZ	ADM1060ARUZ-ND	Supervisor/Sequencer 7-Channel*	28-TSSOP	9.58	8.63	7.65
ADM1062ASUZ	ADM1062ASUZ-ND	Super Sequencer™ with Margining Control and Temp. Monitoring*	48-TQFP	16.33	14.70	13.04
ADM1063ASUZ	ADM1063ASUZ-ND	Multisupply Supervisor/Sequencer with ADC and Temp. Monitoring*	48-TQFP	14.99	13.50	11.97
ADM1064ASU	ADM1064ASU-ND	Super Sequencer™ with Voltage Readback ADC	48-TQFP	14.33	12.90	11.44
ADM1066ASUZ	ADM1066ASUZ-ND	Super Sequencer™ with Margining Control and Auxiliary ADC Input*	48-TQFP	15.49	13.95	12.37
ADM1067ASU	ADM1067ASU-ND	Super Sequencer™ with Open-Loop Margining DACs	48-TQFP	12.16	10.95	9.71
ADM1068ASTZ	ADM1068ASTZ-ND	Super Sequencer™ and Monitor*	32-LQFP	8.60	6.88	5.81
ADM1069ASTZ	ADM1069ASTZ-ND	Super Sequencer™ with Margining Control*	32-LQFP	9.30	7.44	6.28
ADM1085AKS-REEL7	ADM1085AKSREEL7CT-ND	Simple Sequencer™	SC70-6	1.02	.85	.68
ADM1085AKSZ-REEL7	ADM1085AKSZ-REEL7CT-ND	Simple Sequencer™*	SC70-6	1.02	.85	.68
ADM1085AKSZ-REEL7	ADM1085AKSZ-REEL7TR-ND	Simple Sequencer™*	SC70-6	1326.00/3.000		
ADM1086AKS-REEL7	ADM1086AKSREEL7CT-ND	Simple Sequencer™	SC70-6	1.02	.85	.68
ADM1086AKS-REEL7	ADM1086AKSREEL7TR-ND	Simple Sequencer™	SC70-6	1326.00/3,000		
ADM1087AKS-REEL7	ADM1087AKSREEL7CT-ND	Simple Sequencer™	SC70-6	1.02	.85	.68
ADM1087AKS-REEL7	ADM1087AKSREEL7TR-ND	Simple Sequencer™	SC70-6	1326.00/3,000		
ADM1088AKS-REEL7	ADM1088AKSREEL7CT-ND	Simple Sequencer™	SC70-6	1.02	.85	.68
ADM1088AKS-REEL7	ADM1088AKSREEL7TR-ND	Simple Sequencer™	SC70-6	1326.00/3,000		
ADN8831ACPZ-REEL7	ADN8831ACPZ-REEL7CT-ND	Thermoelectric Cooler Controller* ***NEW!***	32-LFCSP	11.66	10.50	9.31
ADN8831ACPZ-REEL7	ADN8831ACPZ-REEL7TR-ND	Thermoelectric Cooler Controller* ***NEW!***	32-LFCSP	12967.50/1,500		
ADT70GR	ADT70GR-ND	PRTD Conditioning Circuit/Temp. Controller	20-SOIC	8.18	6.55	5.53
ADT7316ARQ	ADT7316ARQ-ND	Digital Temp. Sensor Quad DAC	16-QSOP	11.15	10.04	8.90
ADT7317ARQ	ADT7317ARQ-ND	Digital Temp. Sensor Quad DAC	16-QSOP	7.26	5.81	4.91
ADT7318ARQ	ADT7318ARQ-ND	Digital Temp. Sensor Quad DAC	16-QSOP	5.20	4.16	3.24
ADT7411ARQZ	ADT7411ARQZ-ND	Digital Temp. Sensor 8-Ch. ADC*	16-QSOP	5.15	4.13	3.21
ADT7460ARQ	ADT7460ARQ-ND	Remote Thermal/Fan Controller	16-QSOP	5.90	4.72	3.99
ADT7460ARQZ	ADT7460ARQZ-ND	Remote Thermal/Fan Controller*	16-QSOP	5.90	4.72	3.99
ADT7461AR	ADT7461AR-ND	Temperature Monitor +/-1C Dual	8-SOIC	5.00	4.00	3.38
ADT7461ARZ	ADT7461ARZ-ND	Temperature Monitor +/-1C Dual*	8-SOIC	5.00	4.00	3.38
ADT7461ARMZ	ADT7461ARMZ-ND	Temp. Monitor +/-1C Dual*	8-MSOP	5.00	4.00	3.38
ADT7463ARQ	ADT7463ARQ-ND	Remote Thermal Controller	24-QSOP	7.00	5.60	4.73
ADT7467ARQZ	ADT7467ARQZ-ND	dBCool™ Remote Thermal Monitor and Fan Controller*	16-QSOP	5.90	4.72	3.99
ADT7476AARQZ	ADT7476AARQZ-ND	dBCool™ Remote Thermal Controller and Voltage Monitor* ***NEW!***	24-QSOP	5.00	4.00	3.38
ADT7516ARQ	ADT7516ARQ-ND	Temperature Sensor Quad DAC	16-QSOP	13.34	12.02	10.66
ADT7516ARQZ	ADT7516ARQZ-ND	Temperature Sensor Quad DAC*	16-QSOP	13.34	12.02	10.66
ADT7517ARQ	ADT7517ARQ-ND	Temperature Sensor Quad DAC	16-QSOP	8.36	7.53	6.68
ADT7518ARQ	ADT7518ARQ-ND	Temperature Sensor Quad DAC	16-QSOP	7.38	5.91	4.99

ANALOG DEVICES

INTERFACE

Analog

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAT01AH	MAT01AH-ND	TX Matched Mono Dual	TO-78	13.36	12.03	10.67
MAT01GH	MAT01GH-ND	TX Matched Mono Dual	TO-78	9.76	7.81	6.59
MAT02EH	MAT02EH-ND	TX Matched Mono Dual Low Noise	TO-78	15.03	14.03	13.03
MAT02FH	MAT02FH-ND	TX Matched Mono Dual Low Noise	TO-78	8.60	7.74	6.87
MAT04FPZ	MAT04FPZ-ND	TX Matched Mono Quad*	14-Dip	6.78	5.43	4.58
MAT04FSZ	MAT04FSZ-ND	TX Matched Mono Quad*	14-SOIC	6.78	5.43	4.58

Audio/Video

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PKD01EPZ	PKD01EPZ-ND	Mono Peak Detector Reset/Hold*	14-Dip	12.96	11.67	10.35
PKD01EY	PKD01EY-ND	Mono Peak Detector Reset/Hold	14-CDip	16.21	14.60	12.95
PKD01FPZ	PKD01FPZ-ND	Mono Peak Detector Reset/Hold*	14-Dip	10.80	9.72	8.62

Digital Isolators

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD260BND-1	AD260BND-1-ND	Logic Isolator 3.5kV, 1:4 I/O	22-Dip	73.61	68.70	63.80
AD260BND-2	AD260BND-2-ND	Logic Isolator 3.5kV, 2:3 I/O	22-Dip	73.61	68.70	63.80

Multiplexer

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
7705201EX	7705201EX-ND	Mux Analog 8-Channel	16-CDip	16.33	14.70	13.04
AD7501JN	AD7501JN-ND	Mux Analog 8-Channel	16-Dip	9.86	8.88	7.88
AD7501KN	AD7501KN-ND	Mux Analog 8-Channel	16-Dip	10.33	9.30	8.25
AD7502JN	AD7502JN-ND	Mux Analog Dual 4-Channel	16-Dip	9.86	8.88	7.88
AD7503JN	AD7503JN-ND	Mux Analog 8-Channel	16-Dip	9.86	8.88	7.88
AD7503JNZ	AD7503JNZ-ND	Mux Analog 8-Channel*	16-Dip	9.86	8.88	7.88
AD7503KN	AD7503KN-ND	Mux Analog 8-Channel	16-Dip	10.33	9.30	8.25
AD7503KNZ	AD7503KNZ-ND	Mux Analog 8-Channel*	16-Dip	10.33	9.30	8.25
AD7506JN	AD7506JN-ND	Mux Analog 16-Channel	28-Dip	16.32	15.24	14.15
AD7506KN	AD7506KN-ND	Mux Analog 16-Channel	28-Dip	17.03	15.89	14.76
AD7506KNZ	AD7506KNZ-ND	Mux Analog 16-Channel*	28-Dip	17.03	15.89	14.76
AD8170AR	AD8170AR-ND	Mux with Amp Buffered	8-SOIC	5.00	4.00	3.11
AD8174AN	AD8174AN-ND	Mux with Amp Buffered	14-Dip	6.86	5.49	4.64
AD8174ARZ	AD8174ARZ-ND	Mux with Amp Buffered* ***NEW!***	14-SOIC	6.86	5.49	4.64

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD8180ARZ	AD8180ARZ-ND	Mux Switching 2:1*	8-SOIC	4.30	3.44	2.68
AD8182AR	AD8182AR-ND	Mux Switching Dual 2:1	14-SOIC	5.44	4.36	3.68
AD8182ARZ	AD8182ARZ-ND	Mux Switching Dual 2:1*	14-SOIC	5.44	4.36	3.68
AD8183ARU	AD8183ARU-ND	Mux Switching Triple	24-TSSOP	6.32	5.06	4.27
AD8184AR-REEL7	AD8184AR-REEL7CT-ND	Video Mux 4:1, 700MHz	14-SOIC	5.02	4.02	3.13
AD8184AR-REEL7	AD8184AR-REEL7TR-ND	Video Mux 4:1, 700MHz	14-SOIC	2843.00/1,000		
AD8184ARZ	AD8184ARZ-ND	Video Mux 4:1, 700MHz* ***NEW!***	14-SOIC	5.02	4.02	3.13
AD8185ARU	AD8185ARU-ND	Triple Switching Mux	24-TSSOP	6.32	5.06	4.27
AD8185ARUZ	AD8185ARUZ-ND	Triple Switching Mux* ***NEW!***	24-TSSOP	6.32	5.06	4.27
AD8186ARU	AD8186ARU-ND	Triple Mux 2:1, 480MHz	24-TSSOP	6.10	4.88	4.12
AD8186ARUZ	AD8186ARUZ-ND	Triple Mux 2:1, 480MHz*	24-TSSOP	6.10	4.88	4.12
AD8187ARU	AD8187ARU-ND	Triple Mux 2:1, 480MHz	24-TSSOP	6.10	4.88	4.12
ADG406BNZ	ADG406BNZ-ND	Mux 16-Channel High Perf.*	28-Dip	8.43	7.59	6.73
ADG406BP	ADG406BP-ND	Mux 16-Channel High Perf.	28-PLCC	9.00	8.10	7.19
ADG406BPZ	ADG406BPZ-ND	Mux 16-Channel High Perf.*	28-PLCC	9.00	8.10	7.19
ADG406BP-REEL	ADG406BP-REELCT-ND	Mux 16-Channel High Perf.	28-PLCC	9.00	8.10	7.19
ADG406BP-REEL	ADG406BP-REELTR-ND	Mux 16-Channel High Perf.	28-PLCC	5062.50/750		
ADG407BN	ADG407BN-ND	Mux Analog 8-Channel High Perf.	28-Dip	9.06	8.16	7.24
ADG407BPZ	ADG407BPZ-ND	Mux Analog 8-Ch. High Perf.* ***NEW!***	28-PLCC	9.68	8.72	7.73
ADG408BNZ	ADG408BNZ-ND	Mux Analog 8-Channel High Perf.*	16-Dip	5.27	4.22	3.28
ADG408BRZ	ADG408BRZ-ND	Mux Analog 8-Channel High Perf.* ***NEW!***	16-SOIC	5.27	4.22	3.28
ADG408BRUZ	ADG408BRUZ-ND	Mux Analog 8-Channel High Perf.*	16-TSSOP	5.27	4.22	3.28
ADG409BN	ADG409BN-ND	Mux Dual 4-Ch. High Perf.	16-Dip	5.27	4.22	3.28
ADG409BNZ	ADG409BNZ-ND	Mux Dual 4-Ch. High Perf.* ***NEW!***	16-Dip	5.27	4.22	3.28
ADG409BRZ	ADG409BRZ-ND	Mux Dual 4-Channel High Perf.*	16-SOIC	5.27	4.22	3.28
ADG426BRSZ	ADG426BRSZ-ND	Mux Analog 16-Channel High Perf.*	28-SSOP	10.51	9.47	8.40
ADG428BP	ADG428BP-ND	Mux Analog 8-Ch. Latch High Perf.	20-PLCC	6.62	5.30	4.47
ADG438FBN	ADG438FBN-ND	Mux Analog 8-Channel High Perf.	16-Dip	8.56	6.85	5.78
ADG438FBRZ	ADG438FBRZ-ND	Mux Analog 8-Channel High Perf.* ***NEW!***	16-SOIC	8.56	6.85	5.78
ADG439FBRZ	ADG439FBRZ-ND	Mux Analog 4-Channel High Perf.*	16-SOIC	8.56	6.85	5.78
ADG467BRZ	ADG467BRZ-ND	Channel Protector Octal*	18-SOIC	5.33	4.27	3.32
ADG467BRS	ADG467BRS-ND	Channel Protector Octal	20-SSOP	5.33	4.27	3.32
ADG467BRSZ	ADG467BRSZ-ND	Channel Protector Octal*	20-SSOP	5.33	4.27	3.32
ADG506AKNZ	ADG506AKNZ-ND	Mux Analog Single 16-Channel*	28-Dip	9.11	8.21	7.28
ADG506AKPZ	ADG506AKPZ-ND	Mux Analog Single 16-Channel*	28-PLCC	10.55	9.50	8.42
ADG506AKRZ	ADG506AKRZ-ND	Mux Analog Single 16-Channel*	28-SOIC	9.11	8.21	7.28
ADG507AKNZ	ADG507AKNZ-ND	Mux Analog Dual 8-Channel*	28-Dip	9.10	8.19	7.27
ADG507AKPZ	ADG507AKPZ-ND	Mux Analog Dual 8-Channel*	28-PLCC	10.55	9.50	8.42
ADG507AKRZ	ADG507AKRZ-ND	Mux Analog Dual 8-Channel* ***NEW!***	28-SOIC	9.11	8.21	7.28
ADG507ATQ	ADG507ATQ-ND	Mux Analog Dual 8-Channel	28-CDip	22.28	20.79	19.31
ADG508AKNZ	ADG508AKNZ-ND	Mux Analog Single 8-Channel*	16-Dip	5.10	4.08	3.45
ADG508AKP	ADG508AKP-ND	Mux Analog Single 8-Channel	20-PLCC	5.54	4.44	3.74
ADG508AKR	ADG508AKR-ND	Mux Analog Single 8-Channel	16-SOIC	5.10	4.08	3.45
ADG508AKR-REEL7	ADG508AKR-REEL7CT-ND	Mux Analog Single 8-Channel	16-SOIC	5.10	4.08	3.45
ADG508AKR-REEL7	ADG508AKR-REEL7TR-ND	Mux Analog Single 8-Channel	16-SOIC	3188.00/1,000		
ADG508AKRZ	ADG508AKRZ-ND	Mux Analog Single 8-Channel*	16-SOIC	5.10	4.08	3.45
ADG508ATQ	ADG508ATQ-ND	Mux Analog Single 8-Channel	16-CDip	11.73	10.56	9.37
ADG508FBN	ADG508FBN-ND	Mux Single 8-Ch. Fault-Protected	16-Dip	6.62	5.30	4.47
ADG508FBRNZ	ADG508FBRNZ-ND	Mux Single 8-Ch. Fault-Protected*	16-SOIC	6.62	5.30	4.47
ADG509AKNZ	ADG509AKNZ-ND	Mux Analog Dual 4-Channel*	16-Dip	4.86	3.89	3.03
ADG509AKP	ADG509AKP-ND	Mux Analog Dual 4-Channel	20-PLCC	5.27	4.22	3.28
ADG509AKR	ADG509AKR-ND	Mux Analog Dual 4-Channel	16-SOIC	4.86	3.89	3.03
ADG509FBN	ADG509FBN-ND	Mux Analog Dual 4-Channel	16-Dip	6.62	5.30	4.47
ADG509FBRNZ	ADG509FBRNZ-ND	Mux Analog Dual 16-Channel Fault-Protected*	16-SOIC	6.62	5.30	4.47
ADG526AKN	ADG526AKN-ND	Mux Analog Single 16-Channel	28-Dip	9.06	8.16	7.24
ADG526AKP	ADG526AKP-ND	Mux Analog Single 16-Channel	28-PLCC	9.51	8.57	7.60
ADG526AKR	ADG526AKR-ND	Mux Analog Single 16-Channel	28-SOIC	9.06	8.16	7.24
ADG527AKN	ADG527AKN-ND	Mux Analog Dual 8-Channel	28-Dip	8.71	7.85	6.96
ADG527AKPZ	ADG527AKPZ-ND	Mux Analog Dual 8-Channel* ***NEW!***	28-PLCC	9.15	8.24	7.31
ADG527AKR	ADG527AKR-ND	Mux Analog Dual 8-Channel	28-SOIC	8.71	7.85	6.96
ADG528AKNZ	ADG528AKNZ-ND	Mux Analog 8-Channel*	28-Dip	6.58	5.27	4.45
ADG528AKP	ADG528AKP-ND	Mux Analog 8-Channel	20-PLCC	6.88	5.51	4.65
ADG528FBP	ADG528FBP-ND	Mux Analog 8-Ch. Fault-Protected	20-PLCC	7.80	6.24	5.27
ADG529AKN	ADG529AKN-ND	Mux Analog Dual 4-Channel	18-Dip	6.58	5.27	4.45
ADG604YRUZ	ADG604YRUZ-ND	Mux 4-Channel, 2.7/5.5V*	14-TSSOP	4.10	3.28	2.55
ADG608BN	ADG608BN-ND	Mux 8-Ch., 5/3V High Perf.	16-Dip	5.18	4.14	3.22
ADG608BNZ	ADG608BNZ-ND	Mux 8-Ch., 5/3V High Perf.* ***NEW!***	16-Dip	5.18	4.14	3.22
ADG608BRZ	ADG608BRZ-ND	Mux 8-Channel, 5/3V High Perf.*	16-SOIC	5.18	4.14	3.22
ADG608BRU	ADG608BRU-ND	Mux 8-Channel, 5/3V High Perf.	16-TSSOP	5.18	4.14	3.22
ADG608BRUZ-REEL7	ADG608BRUZ-REEL7CT-ND	Mux 8-Channel, 5/3V High Perf.* ***NEW!***	16-TSSOP	5.18	4.14	3.22
ADG608BRUZ-REEL7	ADG608BRUZ-REEL7TR-ND	Mux 8-Channel, 5/3V High Perf.* ***NEW!***	16-TSSOP	2933.00/1,000		
ADG609BN	ADG609BN-ND	Mux Diff. 4-Channel, 5/3V Precision	16-Dip	5.18	4.14	3.22
ADG609BRZ	ADG609BRZ-ND	Mux Diff. 4-Ch., 5/3V Precision*	16-SOIC	5.18	4.14	3.22
ADG609BRUZ	ADG609BRUZ-ND	Mux Diff. 4-Ch., 5/3V Precision*	16-TSSOP	5.18	4.14	3.22
ADG658YRU	ADG658YRU-ND	Mux Single 8-Channel, 3/5V	16-TSSOP	2.25	1.80	1.40
ADG658YRUZ	ADG658YRUZ-ND	Mux Single 8-Channel, 3/5V*	16-TSSOP	2.25	1.80	1.40
ADG659YRUZ	ADG659YRUZ-ND	Mux Dual 8-Channel, 3/5V* ***NEW!***	16-TSSOP	2.25	1.80	1.40
ADG704BRM	ADG704BRM-ND	Mux 4-Channel, 1.8/5.5V	10-MSOP	2.43	1.95	1.52
ADG704BRMZ	ADG704BRMZ-ND	Mux 4-Channel, 1.8/5.5V*	10-MSOP	2.43	1.95	1.52
ADG704BRM-REEL7	ADG704BRM-REEL7CT-ND	Mux 4-Channel, 1.8/5.5V	10-MSOP	2.43	1.95	1.52
ADG704BRM-REEL7	ADG704BRM-REEL7TR-ND	Mux 4-Channel, 1.8/5.5V	10-MSOP	1377.00/1,000		
ADG706BRU	ADG706BRU-ND	Mux 16-Channel, 1.8/5.5V	28-TSSOP	6.22	4.98	4.20
ADG706BRUZ	ADG706BRUZ-ND	Mux 16-Channel, 1.8/5.5V*	28-TSSOP	6.22	4.98	4.20
ADG706BRU-REEL7	ADG706BRU-REEL7CT-ND	Mux 16-Channel, 1.8/5.5V	28-TSSOP	6.22	4.98	4.20
ADG706BRU-REEL7	ADG706BRU-REEL7TR-ND	Mux 16-Channel, 1.8/5.5V	28-TSSOP	3888.00/1,000		
ADG708BRUZ	ADG708BRUZ-ND	Mux Single 8-Channel, 1.8/5.5V*	16-TSSOP	3.42	2.74	2.13
ADG708CRUZ	ADG708CRUZ-ND	Mux Single 8-Channel, 1.8/5.5V*	16-TSSOP	4.12	3.30	2.57
ADG709BRU	ADG709BRU-ND	Mux Dual 4-Channel, 1.8/5.5V	16-TSSOP	3.42	2.74	2.13
ADG709BRUZ	ADG709BRUZ-ND	Mux Dual 4-Channel, 1.8/5.5V*	16-TSSOP	3.42	2.74	2.13
ADG709BRU-REEL7	ADG709BRU-REEL7CT-ND	Mux Dual 4-Channel, 1.8/5.5V	16-TSSOP	3.42	2.74	2.13
ADG709BRU-REEL7	ADG709BRU-REEL7TR-ND	Mux Dual 4-Channel, 1.8/5.5V	16-TSSOP	1938.00/1,000		
ADG709BRUZ-REEL7	ADG709BRUZ-REEL7TR-ND	Mux Dual 4-Channel, 1.8/5.5V* ***NEW!***	16-TSSOP	1938.00/1,000		
ADG725BSUZ	ADG725BSUZ-ND	Mux SPI 16-Ch., 1.8/5.5V* ***NEW!***	48-TQFP	9.33	8.40	7.45
ADG726BSU	ADG726BSU-ND	Mux Diff. 16-Channel, 1.8/5.5V	48-TQFP	9.16	8.25	7.32
ADG726BSUZ	ADG726BSUZ-ND	Mux Diff. 16-Channel, 1.8/5.5V*	48-TQFP	9.16	8.25	7.32
ADG731BSUZ	ADG731BSUZ-ND	Mux SPI 32-Ch., 1.8/5.5V* ***NEW!***	48-TQFP	9.33	8.40	7.45
ADG732BSUZ	ADG732BSUZ-ND	Mux Single 32-Channel, 1.8/5.5V*	48-TQFP	9.16	8.25	7.32
ADG738BRUZ	ADG738BRUZ-ND	Mux SPI 8-Channel, 2.7/5.5V*	16-TSSOP	4.39	3.51	2.73
ADG759BCPZ	ADG759BCPZ-ND	Mux Dual 4-Channel, 1.8/5.5V*	20-LFCSP	3.42	2.74	2.13
ADG774BRZ	ADG774BRZ-ND	Mux Quad 200MHz Low Voltage*	16-SOIC	4.19	3.35	2.61
ADG1204YCPZ-500RL7	ADG1204YCPZ-500RL7CT-ND	Mux Low Capacitance, Low Charge Injection, 4:1 *i*CMOS™* ***NEW!***	12-LFCSP	5.36	4.29	3.34
ADG1204YCPZ-500RL7	ADG1204YCPZ-500RL7TR-ND	Mux Low Capacitance, Low Charge Injection, 4:1 *i*CMOS™* ***NEW!***	12-LFCSP	1547.00/500		
ADG1204YRUZ	ADG1204YRUZ-ND	Mux Low Capacitance, Low Charge Injection, 4:1 *i*CMOS™* ***NEW!***	14-TSSOP	5.36	4.29	3.34
MUX08EP	MUX08EP-ND	Mux Analog JFET 8-Channel	16-Dip	9.46	8.52	7.56
MUX08EPZ	MUX08EPZ-ND	Mux Analog JFET 8-Channel* ***NEW!***	16-Dip	9.46	8.52	7.56
MUX24FP	MUX24FP-ND	Mux Analog Dual JFET 4-Channel	16-Dip	9.76	7.81	6.59
SMP08FP	SMP08FP-ND	Mux Octal Sample-Hold	16-Dip	12.59	11.34	10.06

Multiplier/Divider

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD532JD	AD532JD-ND	Trimmed Multiplier/Divider	14-Dip	29.52	27.56	25.59
AD532JH	AD532JH-ND	Trimmed Multiplier/Divider	TO-100	22.80	21.28	19.76
AD532KD	AD532KD-ND	Trimmed Multiplier/Divider	14-Dip	53.67	50.10	46.52
AD532SD	AD532SD-ND	Trimmed Multiplier/Divider	14-Dip	80.49	75.13	69.76
AD532SH	AD532SH-ND	Trimmed Multiplier/Divider	TO-100	65.07	60.74	56.40
AD534JD	AD534JD-ND	Trimmed Multiplier/Divider	14-Dip	29.52	27.56	25.59
AD534JH	AD534JH-ND	Trimmed Multiplier/Divider	TO-100	22.74	21.23	19.71
AD534KD	AD534KD-ND	Trimmed Multiplier/Divider	14-CDip	42.93	40.07	37.21
AD534KH	AD534KH-ND	Trimmed Multiplier/Divider	TO-100	49.37	46.08	42.79
AD534LD	AD534LD-ND	Trimmed Multiplier/Divider	14-CDip	88.55	82.65	76.74
AD534LH	AD534LH-ND	Trimmed Multiplier/Divider	TO-100	72.99	68.13	63.26
AD534SH	AD534SH-ND	Trimmed Multiplier/Divider	TO-100	93.51	87.28	81.05
AD534TD	AD534TD-ND	Trimmed Multiplier/Divider	14-Dip	142.22	132.74	123.26
AD538AD	AD538AD-ND	Multiplier/Divider Real-Time ACU	18-CDip	39.54	36.91	34.27
AD538BD	AD538BD-ND	Multiplier/Divider Real-Time ACU	18-CDip	50.19	46.85	43.50
AD538SD	AD538SD-ND	Multiplier/Divider Real-Time ACU	18-CDip	90.15	84.14	78.13
AD632AD	AD632AD-ND	Precision Multiplier Pretrimmable	TO-116	33.54	31.31	29.07
AD734AN	AD734AN-ND	Multiplier/Divider 4-Quadrant	14-Dip	17.97	16.78	15.58
AD734ANZ	AD734ANZ-ND	Multiplier/Divider 4-Quadrant*	14-Dip	17.97	16.78	15.58
AD734AQ	AD734AQ-ND	Multiplier/Divider 4-Quadrant	14-Dip	20.69	19.31	17.93
AD734BN	AD734BN-ND	Multiplier/Divider 4-Quadrant	14-Dip	30.39	28.37	26.34
AD734BNZ	AD734BNZ-ND	Multiplier/Divider 4-Quadrant*	14-Dip	30.39	28.37	26.34
AD834AQ	AD834AQ-ND	Multiplier 4-Quadrant	8-CDip	42.51	39.68	36.85
AD834AR	AD834AR-ND	Multiplier 4-Quadrant	8-SOIC	24.20	22.59	20.97
AD834ARZ	AD834ARZ-ND	Multiplier 4-Quadrant*	8-SOIC	24.20	22.59	20.97
AD834JN	AD834JN-ND	Multiplier 4-Quadrant	8-Dip	23.61	22.04	20.47
AD834JRZ	AD834JRZ-ND	Multiplier 4-Quadrant* ***NEW!***	8-SOIC	22.71	21.20	19.69
AD835ANZ	AD835ANZ-ND	Multiplier 4-Quadrant* ***NEW!***	8-Dip	14.11	12.71	11.27
AD835ARZ	AD835ARZ-ND	Multiplier 4-Quadrant* ***NEW!***	8-SOIC	14.11	12.71	11.27
AD835AR-REEL7	AD835AR-REEL7CT-ND	Multiplier 4-Quadrant	8-SOIC	14.11	12.71	11.27
AD835AR-REEL7	AD835AR-REEL7TR-ND	Multiplier 4-Quadrant	8-SOIC	7941.00/750		
MLT04GPZ	MLT04GPZ-ND	Multiplier 4-Quadrant*	18-Dip	16.97	15.84	14.71
MLT04GSZ	MLT04GSZ-ND	Multiplier 4-Quadrant*	18-SOIC	16.97	15.84	14.71

Transmitter/Receiver

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7306AR	AD7306AR-ND	TX/RX RS-232/RS-422, 5V	24-SOIC	11.46	10.32	9.16
AD7306ARZ	AD7306ARZ-ND	TX/RX RS-232/RS-422, 5V* ***NEW!***	24-SOIC	11.46	10.32	9.16
AD7306JN	AD7306JN-ND	TX/RX RS-232/RS-422, 5V	24-Dip	11.31	10.19	9.04
AD7306JNZ	AD7306JNZ-ND	TX/RX RS-232/RS-422, 5V* ***NEW!***	24-Dip	11.31	10.19	9.04
ADM101EARMZ	ADM101EARMZ-ND	TX/RX RS-232 Single 5V*	10-MSOP	2.38	1.90	1.43
ADM202EAN	ADM202EAN-ND	TX/RX RS-232, 5V, 15kV	16-Dip	1.32	1.10	.88
ADM202EANZ	ADM202EANZ-ND	TX/RX RS-232, 5V, 15kV*	16-Dip	1.10	.88	.66
ADM202EARNZ	ADM202EARNZ-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	1.10	.88	.66
ADM202EARN-REEL	ADM202EARN-REELTR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	1430.00/2,500		
ADM202EARNZ-REEL	ADM202EARNZ-REEL-ND	TX/RX RS-232, 5V, 15kV* ***NEW!***	16-SOIC	1430.00/2,500		
ADM202EARN-REEL7	ADM202EARNREEL7TR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	585.00/1,000		
ADM202EARNZ-REEL7	ADM202EARNZ-REEL7TR-ND	TX/RX RS-232, 5V, 15kV* ***NEW!***	16-SOIC	585.00/1,000		
ADM202EARUZ	ADM202EARUZ-ND	TX/RX RS-232, 5V, 15kV*	16-TSSOP	1.10	.88	.66
ADM202EARU-REEL7	ADM202EARUREEL7TR-ND	TX/RX RS-232, 5V, 15kV	16-TSSOP	585.00/1,000		
ADM202EARUZ-REEL7	ADM202EARUZ-REEL7TR-ND	TX/RX RS-232, 5V, 15kV* ***NEW!***	16-TSSOP	585.00/1,000		
ADM202EARW	ADM202EARW-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	1.32	1.10	.88
ADM202EARWZ	ADM202EARWZ-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	1.10	.88	.66
ADM202EARW-REEL	ADM202EARW-REELTR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	585.00/1,000		
ADM202JN	ADM202JN-ND	TX/RX RS-232, 5V, 15kV	16-Dip	1.23	1.03	.82
ADM202JNZ	ADM202JNZ-ND	TX/RX RS-232, 5V, 15kV*	16-Dip	1.03	.82	.62
ADM202JRNZ	ADM202JRNZ-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	1.03	.82	.62
ADM202JRN-REEL7	ADM202JRN-REEL7TR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	545.00/1,000		
ADM202JRNZ-REEL7	ADM202JRNZ-REEL7TR-ND	TX/RX RS-232, 5V, 15kV* ***NEW!***	16-SOIC	545.00/1,000		
ADM202JRW	ADM202JRW-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	1.23	1.03	.82
ADM202JRWZ	ADM202JRWZ-ND	TX/RX RS-232, 5V, 15kV*	16-SOIC	1.03	.82	.62
ADM202JRW-REEL	ADM202JRW-REELCT-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	1.03	.82	.62
ADM202JRW-REEL	ADM202JRW-REELTR-ND	TX/RX RS-232, 5V, 15kV	16-SOIC	545.00/1,000		
ADM206EAR	ADM206EAR-ND	TX/RX RS-232, 5V Shutdown/Enable	24-SOIC	3.49	2.79	2.17
ADM206EARZ	ADM206EARZ-ND	TX/RX RS-232, 5V Shutdown/Enable*	24-SOIC	3.49	2.79	2.17
ADM207EARZ	ADM207EARZ-ND	TX/RX RS-232, 5V, 15kV*	24-SOIC	1.89	1.52	1.18
ADM208AR	ADM208AR-ND	TX/RX RS-232, 5V, 0.1uF	24-SOIC	2.25	1.80	1.35
ADM208ARZ	ADM208ARZ-ND	TX/RX RS-232, 5V, 0.1uF* ***NEW!***	24-SOIC	2.03	1.62	1.26
ADM208EANZ	ADM208EANZ-ND	TX/RX RS-232, 5V, 0.1uF*	24-Dip	2.03	1.62	1.26
ADM208EAR	ADM208EAR-ND	TX/RX RS-232, 5V, 0.1uF	24-SOIC	2.25	1.80	1.35
ADM208EAR-REEL	ADM208EAR-REELCT-ND	TX/RX RS-232, 5V, 0.1uF	24-SOIC	3.29	2.63	2.05
ADM208EAR-REEL	ADM208EAR-REELTR-ND	TX/RX RS-232, 5V, 0.1uF	24-SOIC	1170.00/1,000		
ADM208EARSZ	ADM208EARSZ-ND	TX/RX RS-232, 5V, 0.1uF*	24-SSOP	2.03	1.62	1.26
ADM211ARSZ	ADM211ARSZ-ND	TX/RX RS-232, 5V, 0.1uF*	28-SSOP	1.62	1.30	1.01
ADM211ARS-REEL	ADM211ARS-REELCT-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP	3.29	2.63	2.05
ADM211ARS-REEL	ADM211ARS-REELTR-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP	1404.00/1,500		
ADM211EAR	ADM211EAR-ND	TX/RX RS-232, 5V, 0.1uF	28-SOIC	1.80	1.44	1.08
ADM211EARZ	ADM211EARZ-ND	TX/RX RS-232, 5V, 0.1uF* ***NEW!***	28-SOIC	1.80	1.44	1.08
ADM211EAR-REEL	ADM211EAR-REELCT-ND	TX/RX RS-232, 5V, 0.1uF	28-SOIC	3.29	2.63	2.05
ADM211EAR-REEL	ADM211EAR-REELTR-ND	TX/RX RS-232, 5V, 0.1uF	28-SOIC	936.00/1,000		
ADM211EARSZ	ADM211EARSZ-ND	TX/RX RS-232, 5V, 0.1uF*	28-SSOP	1.62	1.30	1.01
ADM211EARS-REEL	ADM211EARS-REELCT-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP	3.29	2.63	2.05
ADM211EARS-REEL	ADM211EARS-REELTR-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP	1404.00/1,500		
ADM213EARZ	ADM213EARZ-ND	TX/RX RS-232, 5V, 0.1uF*	28-SOIC	1.62	1.30	1.01
ADM213EARSZ	ADM213EARSZ-ND	TX/RX RS-232, 5V, 0.1uF*	28-SSOP	1.62	1.30	1.01

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ANALOG DEVICES

INTERFACE *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADM213EARS-REEL	ADM213EARS-REELCT-ND	TX/RX RS-232, 5V, 0.1uF	28-SSOP	3.29	2.63	2.05
ADM213EARSZ-REEL	ADM213EARSZ-REELTR-ND	TX/RX RS-232, 5V, 0.1uF* ***NEW!***	28-SSOP	1404.00/1,500		
ADM213EARU	ADM213EARU-ND	TX/RX RS-232, 5V, 0.1uF	28-TSSOP	1.80	1.44	1.08
ADM213EARUZ	ADM213EARUZ-ND	TX/RX RS-232, 5V, 0.1uF*	28-TSSOP	1.62	1.30	1.01
ADM222AN	ADM222AN-ND	TX/RX RS-232, 5V with SD	18-Dip	1.85	1.48	1.11
ADM222ANZ	ADM222ANZ-ND	TX/RX RS-232, 5V with SD*	18-Dip	1.67	1.34	1.04
ADM222ARZ	ADM222ARZ-ND	TX/RX RS-232, 5V with SD*	18-SOIC	1.67	1.34	1.04
ADM231LJN	ADM231LJN-ND	TX/RX RS-232, Dual 5V	14-Dip	1.45	1.16	.87
ADM232AANZ	ADM232AANZ-ND	TX/RX RS-232, Dual 5V*	16-Dip	.99	.80	.62
ADM232AARNZ	ADM232AARNZ-ND	TX/RX RS-232, Dual 5V*	16-SOIC	.99	.80	.62
ADM232AARN-REEL	ADM232AARN-REELCT-ND	TX/RX RS-232, Dual 5V	16-SOIC	2.25	1.80	1.40
ADM232AARN-REEL	ADM232AARN-REELTR-ND	TX/RX RS-232, Dual 5V	16-SOIC	1430.00/2,500		
ADM232AARWZ	ADM232AARWZ-ND	TX/RX RS-232, Dual 5V*	16-SOIC	.99	.80	.62
ADM232AARW-REEL	ADM232AARW-REELCT-ND	TXRX RS-232, Dual 5V	16-SOIC	2.25	1.80	1.40
ADM232AARW-REEL	ADM232AARW-REELTR-ND	TXRX RS-232, Dual 5V	16-SOIC	585.00/1,000		
ADM232LAN	ADM232LAN-ND	TX/RX Dual RS-232, 5V LP	16-Dip	1.26	1.05	.84
ADM232LAR	ADM232LAR-ND	TX/RX Dual RS-232, 5V LP	16-SOIC	1.26	1.05	.84
ADM232LARZ	ADM232LARZ-ND	TX/RX Dual RS-232, 5V LP*	16-SOIC	1.05	.84	.63
ADM232LAR-REEL	ADM232LAR-REELCT-ND	TX/RX RS-232, Dual 5V	16-SOIC	1.26	1.05	.84
ADM232LAR-REEL	ADM232LAR-REELTR-ND	TX/RX RS-232, Dual 5V	16-SOIC	559.00/1,000		
ADM232LJNZ	ADM232LJNZ-ND	TX/RX Dual RS-232, 5V LP*	16-Dip	1.15	.92	.69
ADM232LJRZ	ADM232LJRZ-ND	TX/RX Dual RS-232, 5V LP*	16-SOIC	1.10	.88	.66
ADM233LAN	ADM233LAN-ND	TX/RX Dual RS-232, 5V LP	20-Dip	4.10	3.28	2.55
ADM233LANZ	ADM233LANZ-ND	TX/RX Dual RS-232, 5V LP* ***NEW!***	20-Dip	4.10	3.28	2.55
ADM233LJNZ	ADM233LJNZ-ND	TX/RX Dual RS-232, 5V LP*	20-Dip	4.10	3.28	2.55
ADM238LJN	ADM238LJN-ND	TX/RX Quad RS-232, 5V LP	24-Dip	2.13	1.70	1.28
ADM238LJNZ	ADM238LJNZ-ND	TX/RX Quad RS-232, 5V LP*	24-Dip	1.91	1.53	1.19
ADM238LJR	ADM238LJR-ND	TX/RX Quad RS-232, 5V LP	24-SOIC	2.03	1.62	1.22
ADM238LJRZ	ADM238LJRZ-ND	TX/RX Quad RS-232, 5V LP*	24-SOIC	1.82	1.46	1.14
ADM242AN	ADM242AN-ND	TX/RX RS-232 with Enable and SD	18-Dip	1.80	1.44	1.08
ADM242ANZ	ADM242ANZ-ND	TX/RX RS-232 with Enable and SD* ***NEW!***	18-Dip	1.80	1.44	1.08
ADM242ARZ	ADM242ARZ-ND	TX/RX RS-232 with Enable and SD*	18-SOIC	1.55	1.25	.97
ADM242AR-REEL	ADM242AR-REELTR-ND	TX/RX RS-232 with Enable and SD	18-SOIC	897.00/1,000		
ADM483AR	ADM483AR-ND	TX/RX RS-485/RS-422 Low Power, Slew-Rate Limited	8-SOIC	1.63	1.30	.98
ADM483ARZ	ADM483ARZ-ND	TX/RX RS-485/RS-422 Low Power, Slew-Rate Limited* ***NEW!***	8-SOIC	1.63	1.30	.98
ADM483EAN	ADM483EAN-ND	TX/RX RS-485 Low-Slew 5V	8-Dip	1.90	1.52	1.14
ADM483EANZ	ADM483EANZ-ND	TX/RX RS-485 Low-Slew 5V*	8-Dip	1.71	1.37	1.07
ADM483EAR	ADM483EAR-ND	TX/RX RS-485 Low-Slew 5V	8-SOIC	1.90	1.52	1.14
ADM483EARZ	ADM483EARZ-ND	TX/RX RS-485 Low-Slew 5V*	8-SOIC	1.71	1.37	1.07
ADM483EARZ-REEL	ADM483EARZ-REELTR-ND	TX/RX RS-485 Low-Slew 5V* ***NEW!***	8-SOIC	2432.50/2,500		
ADM485ANZ	ADM485ANZ-ND	TX/RX Single RS-485, 5V*	8-Dip	1.28	1.02	.77
ADM485AR	ADM485AR-ND	TX/RX Single RS-485, 5V	8-SOIC	1.38	1.15	.92
ADM485ARZ	ADM485ARZ-ND	TX/RX Single RS-485, 5V* ***NEW!***	8-SOIC	1.38	1.15	.92
ADM485AR-REEL	ADM485AR-REELTR-ND	TX/RX Single RS-485, 5V	8-SOIC	1495.00/2,500		
ADM485JN	ADM485JN-ND	TX/RX Single RS-485, 5V	8-Dip	1.38	1.15	.92
ADM485JNZ	ADM485JNZ-ND	TX/RX Single RS-485, 5V* ***NEW!***	8-Dip	1.38	1.15	.92
ADM485JR	ADM485JR-ND	TX/RX Single RS-485, 5V	8-SOIC	1.38	1.15	.92
ADM485JRZ	ADM485JRZ-ND	TX/RX Single RS-485, 5V* ***NEW!***	8-SOIC	1.38	1.15	.92
ADM485JR-REEL	ADM485JR-REELTR-ND	TX/RX Single RS-485, 5V	8-SOIC	1495.00/2,500		
ADM488AN	ADM488AN-ND	TX/RX RS-485 Low-Slew	8-Dip	1.83	1.46	1.10
ADM488ANZ	ADM488ANZ-ND	TX/RX RS-485 Low-Slew* ***NEW!***	8-Dip	1.83	1.46	1.10
ADM488ARZ	ADM488ARZ-ND	TX/RX RS-485 Low-Slew*	8-SOIC	1.51	1.21	.94
ADM489AN	ADM489AN-ND	TX/RX RS-485 Low-Slew/Enable	14-Dip	1.98	1.58	1.19
ADM489ANZ	ADM489ANZ-ND	TX/RX RS-485 Low-Slew/ Enable* ***NEW!***	14-Dip	1.98	1.58	1.19
ADM489AR	ADM489AR-ND	TX/RX RS-485 Low-Slew/Enable	14-SOIC	1.59	1.48	1.30
ADM489ARZ	ADM489ARZ-ND	TX/RX RS-485 Low-Slew/ Enable* ***NEW!***	14-SOIC	1.85	1.48	1.11
ADM1385ARS	ADM1385ARS-ND	TX/RX RS-232 HS 3.3V	20-SSOP	3.02	2.42	1.88
ADM1385ARSZ	ADM1385ARSZ-ND	TX/RX RS-232 HS 3.3V*	20-SSOP	3.02	2.42	1.88
ADM1485ARZ	ADM1485ARZ-ND	TX/RX RS-485 HS 5V*	8-SOIC	2.48	1.98	1.54
ADM1485JN	ADM1485JN-ND	TX/RX RS-485 HS 5V	8-Dip	2.38	1.90	1.43
ADM1485JNZ	ADM1485JNZ-ND	TX/RX RS-485 HS 5V* ***NEW!***	8-Dip	2.38	1.90	1.43
ADM1485JRZ	ADM1485JRZ-ND	TX/RX RS-485 HS 5V*	8-SOIC	2.13	1.70	1.28
ADM1486ARZ	ADM1486ARZ-ND	TX/RX RS-485 PROFIBUS 5V*	8-SOIC	5.09	4.07	3.17
ADM2209EARU	ADM2209EARU-ND	TX/RX 6/10 RS-232, 12V	38-TSSOP	4.97	3.98	3.10
ADM2209EARUZ	ADM2209EARUZ-ND	TX/RX 6/10 RS-232, 12V*	38-TSSOP	4.97	3.98	3.10
ADM2483BRWZ	ADM2483BRWZ-ND	TX/RX RS-485 Half-Duplex, iCoupler® * ***NEW!***	16-SOIC	6.60	5.28	4.46
ADM2486BRW	ADM2486BRW-ND	TX/RX RS-485, High Speed, Half-Duplex iCoupler®	16-SOIC	9.16	8.25	7.32
ADM2486BRWZ	ADM2486BRWZ-ND	TX/RX RS-485, High Speed, Half-Duplex iCoupler®*	16-SOIC	9.16	8.25	7.32
ADM3202AN	ADM3202AN-ND	TX/RX Dual RS-232, 3.3V	16-Dip	1.55	1.25	.97
ADM3202ANZ	ADM3202ANZ-ND	TX/RX Dual RS-232, 3.3V* ***NEW!***	16-Dip	1.73	1.38	1.04
ADM3202ARNZ	ADM3202ARNZ-ND	TX/RX Dual RS-232, 3.3V*	16-SOIC	1.35	1.08	.84
ADM3202ARN-REEL7	ADM3202ARNREEL7CT-ND	TX/RX Dual RS-232, 3.3V	16-SOIC	2.54	2.04	1.59
ADM3202ARN-REEL7	ADM3202ARNREEL7TR-ND	TX/RX Dual RS-232, 3.3V	16-SOIC	780.00/1,000		
ADM3202ARNZ-REEL7	ADM3202ARNZ-REEL7TR-ND	TX/TX Dual RS-232, 3.3V* ***NEW!***	16-SOIC	780.00/1,000		
ADM3202ARUZ	ADM3202ARUZ-ND	TX/RX Dual RS-232, 3.3V*	16-TSSOP	1.35	1.08	.84
ADM3202ARU-REEL	ADM3202ARU-REELCT-ND	TX/RX Dual RS-232, 3.3V	16-TSSOP	2.54	2.04	1.59
ADM3202ARU-REEL	ADM3202ARU-REELTR-ND	TX/RX Dual RS-232, 3.3V	16-TSSOP	1920.00/2,500		
ADM3202ARW	ADM3202ARW-ND	TX/RX Dual RS-232, 3.3V	16-SOIC	1.50	1.20	.90
ADM3202ARWZ	ADM3202ARWZ-ND	TX/RX Dual RS-232, 3.3V* ***NEW!***	16-SOIC	1.50	1.20	.90
ADM3222ARSZ	ADM3222ARSZ-ND	TX/RX RS-232, 3.3V with SD*	20-SSOP	1.46	1.17	.91
ADM3222ARU	ADM3222ARU-ND	TX/RX RS-232, 3.3V with SD	20-TSSOP	1.63	1.30	.98
ADM3222ARUZ	ADM3222ARUZ-ND	TX/RX RS-232, 3.3V with SD*	20-TSSOP	1.46	1.17	.91
ADM3222ARW	ADM3222ARW-ND	TX/RX RS-232, 3.3V with SD	18-SOIC	1.63	1.30	.98
ADM3310EARU	ADM3310EARU-ND	TX/RX RS-232, 3:5, 2.7V	28-TSSOP	3.20	2.56	1.99
ADM3311EARS	ADM3311EARS-ND	TX/RX RS-232, 3:5, 2.7V	28-SSOP	1.88	1.50	1.13
ADM3311EARSZ	ADM3311EARSZ-ND	TX/RX RS-232, 3:5, 2.7V*	28-SSOP	1.69	1.35	1.05
ADM3311EARS-REEL	ADM3311EARSREELCT-ND	TX/RX RS-232, 3:5, 2.7V	28-SSOP	3.15	2.52	1.96
ADM3311EARS-REEL	ADM3311EARSREELTR-ND	TX/RX RS-232, 3:5, 2.7V	28-SSOP	975.00/1,000		
ADM3311EARSZ-REEL	ADM3311EARSZ-REELTR-ND	TX/RX RS-232, 3:5, 2.7V* ***NEW!***	28-SSOP	975.00/1,000		
ADM3311EARUZ	ADM3311EARUZ-ND	TX/RX RS-232, 2.7/3.6V*	28-TSSOP	1.69	1.35	1.05
ADM3311EARU-REEL7	ADM3311EARU-RL7CT-ND	TX/RX RS-232, 3:5, 2.7V	28-TSSOP	3.15	2.52	1.96
ADM3311EARU-REEL7	ADM3311EARU-RL7TR-ND	TX/RX RS-232, 3:5, 2.7V	28-TSSOP	975.00/1,000		
ADM3315EARU	ADM3315EARU-ND	TX/RX RS-232, 3:5, 2.7V	24-TSSOP	3.20	2.56	1.99
ADM3315EARUZ	ADM3315EARUZ-ND	TX/RX RS-232, 3:5, 2.7V*	24-TSSOP	3.20	2.56	1.99
ADM3485EARZ	ADM3485EARZ-ND	TX/RX RS-485 HS 3.3V*	8-SOIC	1.98	1.59	1.24
ADM3485EAR-REEL7	ADM3485EARREEL7CT-ND	TX/RX RS-485 HS 3.3V	8-SOIC	2.75	2.20	1.71
ADM3485EAR-REEL7	ADM3485EARREEL7TR-ND	TX/RX RS-485 HS 3.3V	8-SOIC	1157.00/1,000		
ADM3491ARZ	ADM3491ARZ-ND	TX/RX RS-485 HS Full Duplex 3.3V*	14-SOIC	1.78	1.43	1.11
ADM3491ARUZ	ADM3491ARUZ-ND	TX/RX RS-485 HS Full Duplex 3.3V*	16-TSSOP	1.78	1.43	1.11
ADM4850AR	ADM4850AR-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V	8-SOIC	1.50	1.20	.90
ADM4851AR	ADM4851AR-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V	8-SOIC	1.50	1.20	.90
ADM4852AR	ADM4852AR-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V	8-SOIC	1.50	1.20	.90
ADM4853AR	ADM4853AR-ND	TX/RX RS-485/RS-422, Half Duplex Slew Rate Limited, 5V	8-SOIC	1.50	1.20	.90
ADM4854AR	ADM4854AR-ND	TX/RX RS-485/RS-422, Full Duplex Slew Rate Limited, 5V	8-SOIC	1.50	1.20	.90
ADM4855AR	ADM4855AR-ND	TX/RX RS-485/RS-422, Full Duplex Slew Rate Limited, 5V	8-SOIC	1.50	1.20	.90
ADM4856AR	ADM4856AR-ND	TX/RX RS-485/RS-422, Full Duplex Slew Rate Limited, 5V	8-SOIC	1.50	1.20	.90
ADM4857AR	ADM4857AR-ND	TX/RX RS-485/RS-422, Full Duplex Slew Rate Limited, 5V	8-SOIC	1.50	1.20	.90
ADM5170APZ	ADM5170APZ-ND	TX/RX RS232/423 Octal* ***NEW!***	28-PLCC	6.36	5.09	4.30
ADM5170JP	ADM5170JP-ND	TX/RX RS232/423 Octal	28-PLCC	5.14	4.12	3.47
ADM5180JP	ADM5180JP-ND	TX/RX RS232/423 Octal	28-PLCC	5.14	4.12	3.47

ANALOG DEVICES

MOTION/MOTOR CONTROL

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
1B31AN	1B31AN-ND	Signal Condition Strain Gage	28-Dip	210.06	196.06	182.06
AC1059	AC1059-ND	Socket for Model AD210 IC	—	22.23	20.75	19.27
AC2626L4	AC2626L4-ND	Probe Temp 4" General Purpose	—	143.66	134.08	124.51
AD2S80ABD	AD2S80ABD-ND	R/D Converter Tracking	40-CDip	205.20	191.52	177.84
AD2S80AJD	AD2S80AJD-ND	R/D Converter Tracking	40-CDip	133.65	124.74	115.83
AD2S80ALD	AD2S80ALD-ND	R/D Converter Tracking	40-CDip	267.30	249.48	231.66
AD2S80ASD	AD2S80ASD-ND	R/D Converter Tracking	40-CDip	368.28	343.73	319.18
AD2S81AJD	AD2S81AJD-ND	R/D Converter Tracking	28-CDip	126.00	117.60	109.20
AD2S82AHPZ	AD2S82AHPZ-ND	R/D Converter Tracking*	44-PLCC	77.40	72.24	67.08
AD2S82AJP	AD2S82AJP-ND	R/D Converter Tracking	44-PLCC	153.98	143.71	133.45
AD2S82AJPZ	AD2S82AJPZ-ND	R/D Converter Tracking*	44-PLCC	153.98	143.71	133.45
AD2S82AKP	AD2S82AKP-ND	R/D Converter Tracking	44-PLCC	187.82	175.30	162.78
AD2S82AKPZ	AD2S82AKPZ-ND	R/D Converter Tracking*	44-PLCC	187.82	175.30	162.78
AD2S83APZ	AD2S83APZ-ND	R/D Converter Tracking* ***NEW!***	44-PLCC	126.72	118.28	109.83
AD2S90APZ	AD2S90APZ-ND	R/D Converter 12-Bit* ***NEW!***	20-PLCC	37.62	35.12	32.61
AD2S90-EB	AD2S90-EB-ND	Evaluation Board for AD2S90	—	108.00	—	—
AD2S99APZ	AD2S99APZ-ND	Programmable Oscillator*	20-PLCC	13.96	12.57	11.15
AD2S1200WST	AD2S1200WST-ND	R/D Conv. Single-Supply w/Oscillator	44-LQFP	21.00	19.60	18.20
AD2S1200WSTZ	AD2S1200WSTZ-ND	R/D Conv. Single-Supply w/Oscillator*	44-LQFP	21.00	19.60	18.20
EVAL-AD2S1200CB	EVAL-AD2S1200CB-ND	Evaluation Board for AD2S1200	—	149.63	—	—
AD598AD	AD598AD-ND	LVDT Signal Conditioning	20-Dip	46.37	43.28	40.19
AD598JRZ	AD598JRZ-ND	LVDT Signal Conditioning*	20-SOIC	30.89	28.83	26.77
AD698AP	AD698AP-ND	LVDT Signal Conditioning	28-PLCC	26.91	25.12	23.33
AD698SQ	AD698SQ-ND	LVDT Signal Conditioning	24-Dip	80.01	74.68	69.35

ANALOG DEVICES

POWER MANAGEMENT

DC-to-DC

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
AD8240YRM	AD8240YRM-ND	LED Driver/Monitor	8-MSOP	2.48	1.99	1.68
AD8240YRMZ	AD8240YRMZ-ND	LED Driver/Monitor*	8-MSOP	2.79	2.24	1.74
ADM660AN	ADM660AN-ND	Converter Switch Capacitor	8-Dip	1.38	1.10	.83
ADM660AR	ADM660AR-ND	Converter Switch Capacitor	8-SOIC	1.33	1.06	.80
ADM660ARZ	ADM660ARZ-ND	Converter Switch Capacitor*	8-SOIC	1.19	.96	.75
ADP3041ARU-REEL	ADP3041ARU-REELCT-ND	TFT LCD Panel Power Module	20-TSSOP	4.64	3.71	2.89
ADP3041ARU-REEL	ADP3041ARU-REELTR-ND	TFT LCD Panel Power Module	20-TSSOP	6490.00/2,500		
ADP3162JRZ-REEL7	ADP3162JRZREEL7CT-ND	5-Bit Prog. 2-Phase Sync. Buck Controller*	16-SOIC	4.03	3.23	2.51
ADP3162JRZ-REEL7	ADP3162JRZREEL7TR-ND	5-Bit Prog. 2-Phase Sync. Buck Controller*	16-SOIC	2282.00/1,000		
ADP3163JRUZ-REEL	ADP3163JRUZREELCT-ND	5-Bit Prog. 2/3-Phase Sync. Buck Controller*	20-TSSOP	4.05	3.24	2.52
ADP3163JRUZ-REEL	ADP3163JRUZREELTR-ND	5-Bit Prog. 2/3-Phase Sync. Buck Controller*	20-TSSOP	5670.00/2,500		
ADP3164JRUZ-REEL7	ADP3164JRUZREELCT-ND	5-Bit Prog. 4-Phase Sync. Buck Controller*	20-TSSOP	3.65	2.92	2.27
ADP3164JRUZ-REEL7	ADP3164JRUZREELTR-ND	5-Bit Prog. 4-Phase Sync. Buck Controller*	20-TSSOP	2066.00/1,000		
ADP3171JR	ADP3171JR-ND	Controller Buck Dual Regulator	14-SOIC	3.04	2.43	1.89
ADP3178JRZ-REEL7	ADP3178JRZREEL7CT-ND	4-Bit Prog. Sync. Buck Controller*	16-SOIC	3.13	2.51	1.95
ADP3178JRZ-REEL7	ADP3178JRZREEL7TR-ND	4-Bit Prog. Sync. Buck Controller*	16-SOIC	1772.00/1,000		
ADP3605AR	ADP3605AR-ND	Inverted Volt 120mA Switch Cap	8-SOIC	3.65	2.92	2.27
ADP3820ARTZ-4.2RL7	ADP3820ARTZ4.2RCT-ND	4.2V, Lithium-Ion Battery Charger*	SOT-23-6	1.95	1.56	1.17
ADP3820ARTZ-4.2RL7	ADP3820ARTZ4.2RTR-ND	4.2V, Lithium-Ion Battery Charger*	SOT-23-6	2994.00/3,000		

MOSFET Driver

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADP3120AJRZ	ADP3120AJRZ-ND	Dual Bootstrapped 12V MOSFET Driver* ***NEW!***	8-SOIC	1.50	1.20	.90
ADP3414JRZ	ADP3414JRZ-ND	Dual Bootstrapped MOSFET Driver*	8-SOIC	2.48	1.98	1.54
ADP3415LRMZ-REEL	ADP3415LRMZREELCT-ND	Dual Bootstrapped MOSFET Driver*	10-MSOP	2.48	1.98	1.54
ADP3415LRMZ-REEL	ADP3415LRMZREELTR-ND	Dual Bootstrapped MOSFET Driver*	10-MSOP	4158.00/3,000		
ADP3419JRM-REEL	ADP3419JRM-REELCT-ND	Dual Bootstrapped, High Voltage MOSFET Driver	10-MSOP	1.80	1.44	1.08
ADP3419JRM-REEL	ADP3419JRM-REELTR-ND	Dual Bootstrapped, High Voltage MOSFET Driver	10-MSOP	2766.00/3,000		

Regulators

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADP667ANZ	ADP667ANZ-ND	Regulator LDO 5V or Adj.*	8-Dip	3.83	3.06	2.38
ADP667AR	ADP667AR-ND	Regulator LDO 5V or Adj.	8-SOIC	3.67	2.94	2.29
ADP1111AN	ADP1111AN-ND	Regulator Switching Adj. Volt.	8-Dip	4.52	3.62	2.82
ADP3181JRUZ-REEL	ADP3181JRUZREELCT-ND	Buck Regulator Multiphase Sync.*	28-TSSOP	2.32	1.86	1.45
ADP3181JRUZ-REEL	ADP3181JRUZREELTR-ND	Buck Regulator Multiphase Sync.*	28-TSSOP	3245.00/2,500		

* ***RoHS Compliant***

(Continued)

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADP3300ARTZ-2.7RL7	ADP3300ARTZ2.7RCT-ND	Regulator LDO 2.7V, 50mA*	SOT-23-6	1.58	1.26	.95
ADP3300ARTZ-2.7RL7	ADP3300ARTZ2.7RTR-ND	Regulator LDO 2.7V, 50mA*	SOT-23-6	2418.00/3,000		
ADP3300ARTZ-3.3RL7	ADP3300ARTZ3.3RCT-ND	Regulator LDO 3.3V, 50mA*	SOT-23-6	1.58	1.26	.95
ADP3300ARTZ-3.3RL7	ADP3300ARTZ3.3RTR-ND	Regulator LDO 3.3V, 50mA*	SOT-23-6	2418.00/3,000		
ADP3301AR-3.3	ADP3301AR-3.3-ND	Regulator LDO 3.3V, 100mA	8-SOIC	2.32	1.86	1.45
ADP3303ARZ-3.3	ADP3303ARZ-3.3-ND	Regulator LDO 3.3V, 200mA*	8-SOIC	3.24	2.60	2.02
ADP3303AR-5	ADP3303AR-5-ND	Regulator LDO 5V, 200mA	8-SOIC	3.24	2.60	2.02
ADP3330ARTZ-2.5-R7	ADP3330ARTZ-2.5-R7CT-ND	Reg. LDO 2.5V, 200mA* ***NEW!***	SOT-23-6	2.20	1.76	1.32
ADP3330ARTZ-2.5-R7	ADP3330ARTZ-2.5-R7TR-ND	Reg. LDO 2.5V, 200mA* ***NEW!***	SOT-23-6	3378.00/3,000		
ADP3330ART3.3-RL7	ADP3330ART3.3R7CT-ND	Regulator LDO 3.3V, 200mA	SOT-23-6	2.20	1.76	1.32
ADP3330ART3.3-RL7	ADP3330ART3.3R7TR-ND	Regulator LDO 3.3V, 200mA	SOT-23-6	3378.00/3,000		
ADP3330ARTZ3.3-RL7	ADP3330ARTZ3.3-RL7CT-ND	Reg. LDO 3.3V, 200mA* ***NEW!***	SOT-23-6	2.20	1.76	1.32
ADP3330ARTZ3.3-RL7	ADP3330ARTZ3.3-RL7TR-ND	Reg. LDO 3.3V, 200mA* ***NEW!***	SOT-23-6	3378.00/3,000		
ADP3331ARTZ-REEL7	ADP3331ARTZ-REEL7CT-ND	Regulator LDO Adj. 200mA*	SOT-23-6	2.20	1.76	1.32
ADP3331ARTZ-REEL7	ADP3331ARTZ-REEL7TR-ND	Regulator LDO Adj. 200mA*	SOT-23-6	3378.00/3,000		
ADP3334ARZ	ADP3334ARZ-ND	Regulator LDO Adj. 500mA*	8-SOIC	2.52	2.02	1.57
ADP3335ARM-3.3-RL7	ADP3335ARM3.3R7CT-ND	Regulator LDO 3.3V, 500mA	8-MSOP	3.29	2.63	2.05
ADP3335ARM-3.3-RL7	ADP3335ARM3.3R7TR-ND	Regulator LDO 3.3V, 500mA	8-MSOP	1862.00/1,000		
ADP3335ARMZ-3.3-RL	ADP3335ARMZ-3.3-RLCT-ND	Reg. LDO 3.3V, 500mA* ***NEW!***	8-MSOP	3.29	2.63	2.05
ADP3335ARMZ-3.3-RL	ADP3335ARMZ-3.3-RLTR-ND	Reg. LDO 3.3V, 500mA* ***NEW!***	8-MSOP	5520.00/3,000		
ADP3336ARMZ-REEL7	ADP3336ARMZ-REEL7CT-ND	Reg. LDO 500mA, Adj.* ***NEW!***	8-MSOP	3.29	2.63	2.05
ADP3336ARMZ-REEL7	ADP3336ARMZ-REEL7TR-ND	Reg. LDO 500mA, Adj.* ***NEW!***	8-MSOP	1862.00/1,000		
ADP3338AKC-2.5-RL7	ADP3338AKC2.5R7CT-ND	Regulator LDO 1A Precision 2.5V	SOT-223	3.33	2.67	2.08
ADP3338AKC-2.5-RL7	ADP3338AKC2.5R7TR-ND	Regulator LDO 1A Precision 2.5V	SOT-223	943.50/500		
ADP3338AKCZ-2.5RL7	ADP3338AKCZ-2.5RL7CT-ND	Reg. LDO 1A Precision 2.5V* ***NEW!***	SOT-223	3.33	2.67	2.08
ADP3338AKCZ-2.5RL7	ADP3338AKCZ-2.5RL7TR-ND	Reg. LDO 1A Precision 2.5V* ***NEW!***	SOT-223	962.00/500		
ADP3338AKCZ-3.3RL7	ADP3338AKCZ-3.3RL7CT-ND	Regulator LDO 1A Precision 3.3V*	SOT-223	3.33	2.67	2.08
ADP3338AKCZ-3.3RL7	ADP3338AKCZ-3.3RL7TR-ND	Regulator LDO 1A Precision 3.3V*	SOT-223	962.00/500		
ADP3338AKCZ-5-R7	ADP3338AKCZ-5-R7CT-ND	Reg. LDO 1A Precision 5V* ***NEW!***	SOT-223	3.33	2.67	2.08
ADP3338AKCZ-5-R7	ADP3338AKCZ-5-R7TR-ND	Reg. LDO 1A Precision 5V* ***NEW!***	SOT-223	962.00/500		
ADP3339AKC-1.5-RL7	ADP3339AKC1.5RLCT-ND	Regulator LDO 1.5A, 1.5V	SOT-223	3.94	3.15	2.45
ADP3339AKC-1.5-RL7	ADP3339AKC1.5RLTR-ND	Regulator LDO 1.5A, 1.5V	SOT-223	1137.50/500		
ADP3339AKC-3-RL7	ADP3339AKC-3RL7CT-ND	Regulator LDO 1.5A, 3V	SOT-223	3.94	3.15	2.45
ADP3339AKC-3-RL7	ADP3339AKC-3RL7TR-ND	Regulator LDO 1.5A, 3V	SOT-223	1137.50/500		
ADP3339AKC-5-REEL7	ADP3339AKC-5RL7CT-ND	Regulator LDO 1.5A, 5V	SOT-223	3.94	3.15	2.45
ADP3339AKC-5-REEL7	ADP3339AKC-5RL7TR-ND	Regulator LDO 1.5A, 5V	SOT-223	1137.50/500		
ADP3367AR	ADP3367AR-ND	Regulator LDO Adj. 5V	8-SOIC	4.37	3.50	2.72
ADP3367ARZ	ADP3367ARZ-ND	Regulator LDO Adj. 5V*	8-SOIC	4.37	3.50	2.72

Voltage Reference

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD580JH	AD580JH-ND	Precision Voltage Reference 2.5V	TO-52	5.47	4.38	3.41
AD580LH	AD580LH-ND	Precision Voltage Reference 2.5V	TO-52	11.28	10.16	9.01
AD580TH	AD580TH-ND	Precision Voltage Reference 2.5V	TO-52	19.43	18.13	16.84
AD581JH	AD581JH-ND	Precision Voltage Reference 10V	TO-5	7.46	5.97	5.04
AD581KH	AD581KH-ND	Precision Voltage Reference 10V	TO-5	9.75	8.78	7.79
AD581LH	AD581LH-ND	Precision Voltage Reference 10V	TO-5	17.88	16.69	15.50
AD581UH	AD581UH-ND	Precision Voltage Reference 10V	TO-5	39.84	37.19	34.53
AD584JH	AD584JH-ND	Precision Volt. Ref. Programmable	TO-99	8.80	7.04	5.94
AD584JNZ	AD584JNZ-ND	Precision Volt. Ref. Programmable*	8-Dip	5.54	4.44	3.74
AD584KH	AD584KH-ND	Precision Volt. Ref. Programmable	TO-99	14.48	13.04	11.56
AD584KNZ	AD584KNZ-ND	Precision Volt. Ref. Prog.* ***NEW!***	8-Dip	9.06	8.16	7.24
AD584LH	AD584LH-ND	Precision Volt. Ref. Programmable	TO-99	21.98	20.51	19.05
AD584TH	AD584TH-ND	Precision Volt. Ref. Programmable	TO-99	27.05	25.25	23.44
AD586AR	AD586AR-ND	Precision Voltage Reference 5V	8-SOIC	8.50	7.65	6.79
AD586ARZ-REEL	AD586ARZ-REELCT-ND	Precision Voltage Reference 5V*	8-SOIC	8.50	7.65	6.79
AD586ARZ-REEL	AD586ARZ-REELTR-ND	Precision Voltage Reference 5V*	8-SOIC	15492.50/2,500		
AD586BRZ	AD586BRZ-ND	Precision Voltage Ref. 5V* ***NEW!***	8-SOIC	11.83	10.65	9.45
AD586BRZ-REEL	AD586BRZ-REELCT-ND	Precision Voltage Ref. 5V*	8-SOIC	11.83	10.65	9.45
AD586BRZ-REEL	AD586BRZ-REELTR-ND	Precision Voltage Ref. 5V*	8-SOIC	21567.50/2,500		
AD586JN	AD586JN-ND	Precision Voltage Reference 5V	8-Dip	5.82	4.66	3.93
AD586JNZ	AD586JNZ-ND	Precision Voltage Reference 5V*	8-Dip	5.82	4.66	3.93
AD586JRZ	AD586JRZ-ND	Precision Voltage Reference 5V*	8-SOIC	6.14	4.92	4.15
AD586KN	AD586KN-ND	Precision Voltage Reference 5V	8-Dip	7.48	5.99	5.05
AD586KNZ	AD586KNZ-ND	Precision Voltage Reference 5V*	8-Dip	7.48	5.99	5.05
AD586KRZ	AD586KRZ-ND	Precision Voltage Reference 5V*	8-SOIC	8.12	6.50	5.49
AD586KR-REEL7	AD586KR-REEL7CT-ND	Precision Voltage Reference 5V	8-SOIC	8.12	6.50	5.49
AD586KR-REEL7	AD586KR-REEL7TR-ND	Precision Voltage Reference 5V	8-SOIC	3867.00/750		
AD586LN	AD586LN-ND	Precision Voltage Reference 5V	8-Dip	8.73	7.86	6.97
AD586LNZ	AD586LNZ-ND	Precision Voltage Reference 5V*	8-Dip	8.73	7.86	6.97
AD586LQ	AD586LQ-ND	Precision Voltage Reference 5V	8-Dip	11.83	10.65	9.45
AD586LR	AD586LR-ND	Precision Voltage Reference 5V	8-SOIC	9.28	8.36	7.41
AD586LRZ	AD586LRZ-ND	Precision Voltage Reference 5V*	8-SOIC	9.28	8.36	7.41
AD586LR-REEL7	AD586LR-REEL7CT-ND	Precision Voltage Reference 5V	8-SOIC	9.28	8.36	7.41
AD586LR-REEL7	AD586LR-REEL7TR-ND	Precision Voltage Reference 5V	8-SOIC	5222.25/750		
AD586MN	AD586MN-ND	Precision Voltage Reference 5V	8-Dip	10.01	9.02	8.00
AD586MNZ	AD586MNZ-ND	Precision Voltage Reference 5V*	8-Dip	10.01	9.02	8.00
AD587JN	AD587JN-ND	Precision Voltage Reference 10V	8-Dip	5.40	4.32	3.65
AD587JNZ	AD587JNZ-ND	Precision Voltage Reference 10V*	8-Dip	5.40	4.32	3.65
AD587JRZ	AD587JRZ-ND	Precision Voltage Reference 10V*	8-SOIC	6.14	4.92	4.15
AD587KN	AD587KN-ND	Precision Voltage Reference 10V	8-Dip	6.14	4.92	4.15
AD587KRZ	AD587KRZ-ND	Precision Volt. Reference 10V* ***NEW!***	8-SOIC	6.96	5.57	4.70
AD587LN	AD587LN-ND	Precision Voltage Reference 10V	8-Dip	7.86	6.29	5.31
AD587LNZ	AD587LNZ-ND	Precision Voltage Reference 10V*	8-Dip	7.86	6.29	5.31
AD587UQ	AD587UQ-ND	Precision Voltage Reference 10V	8-Dip	18.84	17.59	16.33
AD588AQ	AD588AQ-ND	Precision Volt. Ref. Programmable	16-Dip	26.43	24.67	22.91
AD588BQ	AD588BQ-ND	Precision Volt. Ref. Programmable	16-Dip	48.66	45.42	42.18
AD588JQ	AD588JQ-ND	Precision Volt. Ref. Programmable	16-Dip	22.67	21.16	19.65
AD588KQ	AD588KQ-ND	Precision Volt. Ref. Programmable	16-Dip	39.65	37.01	34.36
AD589JH	AD589JH-ND	Voltage Reference 1.2V, 2-Terminal	H-02A	8.04	6.44	5.43
AD589JR	AD589JR-ND	Voltage Reference 1.2V, 2-Terminal	8-SOIC	3.87	3.10	2.41
AD589JRZ	AD589JRZ-ND	Voltage Reference 1.2V, 2-Terminal*	8-SOIC	3.87	3.10	2.41
AD589KH	AD589KH-ND	Voltage Reference 1.2V, 2-Terminal	H-02A	8.70	6.96	5.88
AD589LH	AD589LH-ND	Voltage Reference 1.2V, 2-Terminal	H-02A	14.81	13.34	11.83
AD589MH	AD589MH-ND	Voltage Reference 1.2V, 2-Terminal	H-02A	28.98	27.05	25.12
AD680JN	AD680JN-ND	Voltage Reference 2.5V LP	8-Dip	4.12	3.30	2.57
AD680JNZ	AD680JNZ-ND	Voltage Reference 2.5V LP*	8-Dip	4.12	3.30	2.57
AD680JR	AD680JR-ND	Voltage Reference 2.5V LP	8-SOIC	4.12	3.30	2.57
AD680JRZ	AD680JRZ-ND	Voltage Reference 2.5V LP* ***NEW!***	8-SOIC	4.12	3.30	2.57
AD680JR-REEL7	AD680JR-REEL7CT-ND	Voltage Reference 2.5V LP	8-SOIC	4.12	3.30	2.57
AD680JR-REEL7	AD680JR-REEL7TR-ND	Voltage Reference 2.5V LP	8-SOIC	1784.25/750		
AD680JT	AD680JT-ND	Voltage Reference 2.5V LP	TO-92	4.12	3.30	2.57
AD680JTZ	AD680JTZ-ND	Voltage Reference 2.5V LP*	TO-92	4.12	3.30	2.57
AD688AQ	AD688AQ-ND	Precision Voltage Reference +/-10V	16-Dip	24.20	22.59	20.97
AD688BQ	AD688BQ-ND	Precision Voltage Reference +/-10V	16-CDip	40.80	38.08	35.36
AD780AN	AD780AN-ND	Precision Voltage Ref. 2.5V/3.0V	8-Dip	8.58	6.87	5.80
AD780ANZ	AD780ANZ-ND	Precision Voltage Ref. 2.5V/3.0V*	8-Dip	8.58	6.87	5.80
AD780AR-REEL7	AD780AR-REEL7TR-ND	Precision Voltage Reference 2.5V/3.0V	8-SOIC	4086.00/750		
AD780ARZ	AD780ARZ-ND	Precision Volt. Ref. 2.5V/3.0V* ***NEW!***	8-SOIC	8.58	6.87	5.80
AD780BN	AD780BN-ND	Precision Voltage Ref. 2.5V/3.0V	8-Dip	11.91	10.73	9.51
AD780BNZ	AD780BNZ-ND	Precision Voltage Ref. 2.5V/3.0V*	8-Dip	11.91	10.73	9.51
AD780BR	AD780BR-ND	Precision Voltage Ref. 2.5V/3.0V	8-SOIC	11.91	10.73	9.51
AD780BRZ	AD780BRZ-ND	Precision Voltage Ref. 2.5V/3.0V* ***NEW!***	8-SOIC	11.91	10.73	9.51
AD1580ART-REEL7	AD1580ART-REEL7CT-ND	Voltage Reference 1.225V	SOT-23	1.48	1.18	.89
AD1580ARTZ-REEL7	AD1580ARTZ-REEL7CT-ND	Voltage Reference 1.225V* ***NEW!***	SOT-23	1.48	1.18	.89
AD1580ARTZ-REEL7	AD1580ARTZ-REEL7TR-ND	Voltage Reference 1.225V* ***NEW!***	SOT-23	2265.00/3,000		
AD1580BRT-REEL7	AD1580BRT-REEL7CT-ND	Voltage Reference 1.225V	SOT-23	2.18	1.74	1.31
AD1580BRT-REEL7	AD1580BRT-REEL7TR-ND	Voltage Reference 1.225V	SOT-23	3342.00/3,000		
AD1580BRTZ-REEL7	AD1580BRTZ-REEL7CT-ND	Voltage Reference 1.225V* ***NEW!***	SOT-23	2.18	1.74	1.31
AD1580BRTZ-REEL7	AD1580BRTZ-REEL7TR-ND	Voltage Reference 1.225V* ***NEW!***	SOT-23	3342.00/3,000		
AD1582ART-REEL7	AD1582ART-REEL7CT-ND	Voltage Reference 2.5V	SOT-23	1.48	1.18	.89
AD1582ART-REEL7	AD1582ART-REEL7TR-ND	Voltage Reference 2.5V	SOT-23	2265.00/3,000		
AD1582ARTZ-REEL7	AD1582ARTZREEL7CT-ND	Voltage Reference 2.5V*	SOT-23	1.48	1.18	.89
AD1582ARTZ-REEL7	AD1582ARTZREEL7TR-ND	Voltage Reference 2.5V*	SOT-23	2265.00/3,000		
AD1582BRTZ-REEL7	AD1582BRTZREEL7CT-ND	Voltage Reference 2.5V*	SOT-23	2.97	2.38	1.85
AD1582BRTZ-REEL7	AD1582BRTZREEL7TR-ND	Voltage Reference 2.5V*	SOT-23	4989.00/3,000		
AD1584ART-REEL7	AD1584ART-REEL7CT-ND	Voltage Reference 4.096V	SOT-23	1.43	1.14	.86
AD1584ARTZ-REEL7	AD1584ARTZ-REEL7CT-ND	Voltage Reference 4.096V*	SOT-23	1.43	1.14	.86
AD1584ARTZ-REEL7	AD1584ARTZ-REEL7TR-ND	Voltage Reference 4.096V*	SOT-23	2190.00/3,000		
AD1584BRT-REEL7	AD1584BRT-REEL7CT-ND	Voltage Reference 4.096V	SOT-23	2.72	2.18	1.70
AD1584BRT-REEL7	AD1584BRT-REEL7TR-ND	Voltage Reference 4.096V	SOT-23	4575.00/3,000		
AD1584BRTZ-REEL7	AD1584BRTZ-REEL7CT-ND	Voltage Reference 4.096V* ***NEW!***	SOT-23	2.72	2.18	1.70
AD1584BRTZ-REEL7	AD1584BRTZ-REEL7TR-ND	Voltage Reference 4.096V* ***NEW!***	SOT-23	4575.00/3,000		
ADR01AR	ADR01AR-ND	Precision Volt. Ref. 10V, 10PPM	8-SOIC	3.08	2.47	1.92
ADR01ARZ	ADR01ARZ-ND	Prec. Volt. Ref. 10V, 10PPM* ***NEW!***	8-SOIC	2.93	2.34	1.82
ADR01AUJ-R2	ADR01AUJ-R2CT-ND	Precision Volt. Ref. 10V, 25PPM	TSOT-23-5	2.48	1.98	1.54
ADR01AUJ-R2	ADR01AUJ-R2TR-ND	Precision Volt. Ref. 10V, 25PPM	TSOT-23-5	365.75/250		
ADR01BRZ	ADR01BRZ-ND	Precision Volt. Ref. 10V, 3PPM*	8-SOIC	8.00	6.40	5.40
ADR02AKS-R2	ADR02AKS-R2CT-ND	Precision Volt. Ref. 5V, 10mA Out	SC70-5	2.48	1.98	1.54
ADR02AKS-R2	ADR02AKS-R2TR-ND	Precision Volt. Ref. 5V, 10mA Out	SC70-5	365.75/250		
ADR02AUJZ-REEL7	ADR02AUJZ-REEL7CT-ND	Precision Volt. Ref. 5V, 10mA Out*	TSOT-23-5	2.36	1.89	1.47
ADR02AUJZ-REEL7	ADR02AUJZ-REEL7TR-ND	Precision Volt. Ref. 5V, 10mA Out*	TSOT-23-5	3969.00/3,000		
ADR02BKS-R2	ADR02BKS-R2CT-ND	Precision Volt. Ref. 5V, 10mA Out	SC70-5	2.50	2.00	1.69
ADR02BKS-R2	ADR02BKS-R2TR-ND	Precision Volt. Ref. 5V, 10mA Out	SC70-5	415.75/250		
ADR02ARZ	ADR02ARZ-ND	Prec. Volt. Ref. 5V, 10PPM* ***NEW!***	8-SOIC	2.93	2.34	1.82
ADR02AUJ-R2	ADR02AUJ-R2CT-ND	Precision Volt. Ref. 5V, 25PPM	TSOT-23-5	2.48	1.98	1.54
ADR02AUJ-R2	ADR02AUJ-R2TR-ND	Precision Volt. Ref. 5V, 25PPM	TSOT-23-5	365.75/250		
ADR02BRZ	ADR02BRZ-ND	Precision Volt. Ref. 5V, 3PPM*	8-SOIC	8.00	6.40	5.40
ADR02BUJ-R2	ADR02BUJ-R2CT-ND	Precision Volt. Ref. 5V, 9PPM	TSOT-23-5	2.81	2.25	1.75
ADR02BUJ-R2	ADR02BUJ-R2TR-ND	Precision Volt. Ref. 5V, 9PPM	TSOT-23-5	415.75/250		
ADR03AKS-R2	ADR03AKS-R2CT-ND	Precision Volt. Ref. 2.5V, 10mA	SC70-5	4.23	3.39	2.64
ADR03AKS-R2	ADR03AKS-R2TR-ND	Precision Volt. Ref. 2.5V, 10mA	SC70-5	365.75/250		
ADR03ARZ	ADR03ARZ-ND	Precision Volt. Ref. 2.5V, 10PPM*	8-SOIC	2.93	2.34	1.82
ADR03AUJ-R2	ADR03AUJ-R2CT-ND	Precision Volt. Ref. 2.5V, 10mA	TSOT-23-5	2.48	1.98	1.54
ADR03AUJ-R2	ADR03AUJ-R2TR-ND	Precision Volt. Ref. 2.5V, 10mA	TSOT-23-5	365.75/250		
ADR03BKS-R2	ADR03BKS-R2CT-ND	Precision Volt. Ref. 2.5V, 10mA	SC70-5	2.50	2.00	1.69
ADR03BKS-R2	ADR03BKS-R2TR-ND	Precision Volt. Ref. 2.5V, 10mA	SC70-5	415.75/250		
ADR03BRZ	ADR03BRZ-ND	Precision Volt. Ref. 2.5V, 3PPM*	8-SOIC	8.00	6.40	5.40
ADR03BUJ-R2	ADR03BUJ-R2CT-ND	Precision Volt. Ref. 2.5V, 9PPM	TSOT-23-5	2.81	2.25	1.75
ADR03BUJ-R2	ADR03BUJ-R2TR-ND	Precision Volt. Ref. 2.5V, 9PPM	TSOT-23-5	415.75/250		
ADR06AKS-R2	ADR06AKS-R2CT-ND	Precision Volt. Ref. 3V, 10mA Out	SC70-5	2.36	1.89	1.47
ADR06AKS-R2	ADR06AKS-R2TR-ND	Precision Volt. Ref. 3V, 10mA Out	SC70-5	349.25/250		
ADR06AR	ADR06AR-ND	Precision Volt. Ref. 3V, 10PPM	8-SOIC	2.93	2.34	1.82
ADR06AUJ-R2	ADR06AUJ-R2CT-ND	Precision Volt. Ref. 3V, 10mA	TSOT-23-5	4.23	3.39	2.64
ADR06AUJ-R2	ADR06AUJ-R2TR-ND	Precision Volt. Ref. 3V, 10mA	TSOT-23-5	349.25/250		
ADR06BKS-R2	ADR06BKS-R2CT-ND	Precision Volt. Ref. 3V, 10mA Out	SC70-5	2.68	2.15	1.67
ADR06BKS-R2	ADR06BKS-R2TR-ND	Precision Volt. Ref. 3V, 10mA Out	SC70-5	395.75/250		
ADR06BRZ	ADR06BRZ-ND	Precision Volt. Ref. 3V, 3PPM*	8-SOIC	8.00	6.40	5.40
ADR06BUJ-R2	ADR06BUJ-R2CT-ND	Precision Volt. Ref. 3V, 10mA	TSOT-23-5	2.38	1.91	1.61
ADR06BUJ-R2	ADR06BUJ-R2TR-ND	Precision Volt. Ref. 3V, 10mA	TSOT-23-5	395.75/250		
ADR280AKS-R2	ADR280AKS-R2CT-ND	Voltage Ref. Ultralow Power 1.2V	SC70-3	2.33	1.86	1.40
ADR280AKS-R2	ADR280AKS-R2TR-ND	Voltage Ref. Ultralow Power 1.2V	SC70-3	325.50/250		
ADR280ART-R2	ADR280ART-R2CT-ND	Voltage Ref. High PSRR 1.2V	SOT-23	2.33	1.86	1.40
ADR280ART-R2	ADR280ART-R2TR-ND	Voltage Ref. High PSRR 1.2V	SOT-23	325.50/250		
ADR291ERZ	ADR291ERZ-ND	Precision Volt. Ref. 2.5V, 5mA Out*	8-SOIC	14.26	12.84	11.39
ADR291FRZ	ADR291FRZ-ND	Precision Volt. Ref. 2.5V, 5mA Out*	8-SOIC	8.60	6.88	5.81
ADR291GR	ADR291GR-ND	Precision Volt. Ref. 2.5V, 5mA Out	8-SOIC	5.78	4.63	3.91
ADR291GRZ	ADR291GRZ-ND	Precision Volt. Ref. 2.5V, 5mA Out*	8-SOIC	5.78	4.63	3.91
ADR292ERZ	ADR292ERZ-ND	Precision Volt. Ref. 4.096V, 5mA*	8-SOIC	14.26	12.84	11.39
ADR292GRZ	ADR292GRZ-ND	Precision Volt. Ref. 4.096V, 5mA*	8-SOIC	5.78	4.63	3.91
ADR292GRUZ	ADR292GRUZ-ND	Precision Volt. Ref. 4.096V, 5mA*	8-TSSOP	5.47	4.38	3.41
ADR318ARJ-R2	ADR318ARJ-R2CT-ND	Precision Reference Low Drift	SOT-23-5	2.81	2.25	1.75
ADR318ARJ-R2	ADR318ARJ-R2TR-ND	Precision Reference Low Drift	SOT-23-5	415.75/250		
ADR370ART-R2	ADR370ART-R2CT-ND	Precision Ref. Low Power 2.048V	SOT-23	2.81	2.25	1.75
ADR370ART-R2	ADR370ART-R2TR-ND	Precision Ref. Low Power 2.048V	SOT-23	415.75/250		
ADR370BRT-R2	ADR370BRT-R2CT-ND	Precision Ref. Low Power 2.048V	SOT-23	3.71	2.97	2.31
ADR370BRT-R2	ADR370BRT-R2TR-ND	Precision Ref. Low Power 2.048V	SOT-23	548.75/250		
ADR381ARTZ-REEL7	ADR381ARTZ-REEL7CT-ND	Precision Volt. Ref. 2.5V Low Drift*	SOT-23	1.93	1.54	1.16
ADR381ARTZ-REEL7	ADR381ARTZ-REEL7TR-ND	Precision Volt. Ref. 2.5V Low Drift*	SOT-23	2958.00/3,000		
ADR390AUJZ-REEL7	ADR390AUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 2.048V*	TSOT-23-5	1.65	1.32	.99
ADR390AUJZ-REEL7	ADR390AUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 2.048V*	TSOT-23-5	2535.00/3,000		
ADR390BUJZ-REEL7	ADR390BUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 2.048V*	TSOT-23-5	5.60	4.48	3.78
ADR390BUJZ-REEL7	ADR390BUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 2.048V*	TSOT-23-5	10416.00/3,000		
ADR391AUJZ-REEL7	ADR391AUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 2.5V*	TSOT-23-5	1.93	1.54	1.16
ADR391AUJZ-REEL7	ADR391AUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 2.5V*	TSOT-23-5	2958.00/3,000		
ADR391BUJZ-REEL7	ADR391BUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 2.5V*	TSOT-23-5	2.70	2.16	1.62
ADR391BUJZ-REEL7	ADR391BUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 2.5V*	TSOT-23-5	4536.00/3,000		
ADR392AUJZ-REEL7	ADR392AUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 4.096V*	TSOT-23-5	1.65	1.32	.99

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ANALOG DEVICES POWER MANAGEMENT *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADR392AUJZ-REEL7	ADR392AUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 4.096V*	TSOT-23-5	2535.00/3,000		
ADR392BUJZ-REEL7	ADR392BUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 4.096V*	TSOT-23-5	5.60	4.48	3.78
ADR392BUJZ-REEL7	ADR392BUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 4.096V*	TSOT-23-5	10416.00/3,000		
ADR395AUJZ-REEL7	ADR395AUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 5V*	TSOT-23-5	1.65	1.32	.99
ADR395AUJZ-REEL7	ADR395AUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 5V*	TSOT-23-5	2535.00/3,000		
ADR395BUJZ-REEL7	ADR395BUJZREEL7CT-ND	Micropower, LN Precision Voltage Reference 5V*	TSOT-23-5	2.70	2.16	1.68
ADR395BUJZ-REEL7	ADR395BUJZREEL7TR-ND	Micropower, LN Precision Voltage Reference 5V*	TSOT-23-5	4536.00/3,000		
ADR420BR	ADR420BR-ND	Precision Voltage Ref. 2.048V, 10mA	8-SOIC	8.33	7.50	6.65
ADR420BRZ	ADR420BRZ-ND	Prec. Volt. Ref. 2.048V, 10mA* ***NEW!***	8-SOIC	8.33	7.50	6.65
ADR421ARZ	ADR421ARZ-ND	Prec. Ref. Low Noise 2.50V* ***NEW!***	8-SOIC	5.62	4.50	3.80
ADR421ARMZ	ADR421ARMZ-ND	Prec. Ref. Low Noise 2.50V* ***NEW!***	8-MSOP	5.62	4.50	3.80
ADR421BRZ	ADR421BRZ-ND	Prec. Ref. Low Noise 2.50V* ***NEW!***	8-SOIC	8.33	7.50	6.65
ADR423AR	ADR423AR-ND	Precision Voltage Ref. 3V, 10mA Out	8-SOIC	5.62	4.50	3.80
ADR423ARZ	ADR423ARZ-ND	Precision Voltage Ref. 3V, 10mA Out*	8-SOIC	5.62	4.50	3.80
ADR425BRZ	ADR425BRZ-ND	Prec. Volt. Ref. 5V, 10mA Out* ***NEW!***	8-SOIC	8.33	7.50	6.65
ADR430ARM	ADR430ARM-ND	2V, XFET Voltage Reference	8-MSOP	5.70	4.56	3.85
ADR430ARMZ	ADR430ARMZ-ND	2V, XFET Voltage Reference*	8-MSOP	5.70	4.56	3.85
ADR434AR	ADR434AR-ND	4.096V, 30mA XFET Voltage Ref.	8-SOIC	5.70	4.56	3.85
ADR434ARM	ADR434ARM-ND	4.096V, 30mA XFET Voltage Ref.	8-MSOP	5.70	4.56	3.85
ADR435AR	ADR435AR-ND	5V, 30mA XFET Voltage Ref.	8-SOIC	5.70	4.56	3.85
ADR435ARZ	ADR435ARZ-ND	5V, 30mA XFET Voltage Ref.* ***NEW!***	8-SOIC	5.70	4.56	3.85
ADR435ARM	ADR435ARM-ND	5V, 30mA XFET Voltage Reference	8-MSOP	5.70	4.56	3.85
ADR435ARMZ	ADR435ARMZ-ND	5V, 30mA XFET Voltage Reference*	8-MSOP	5.70	4.56	3.85
ADR439AR	ADR439AR-ND	4.5V, 30mA XFET Voltage Reference	8-SOIC	5.70	4.56	3.85
ADR439ARM	ADR439ARM-ND	4.5V, 30mA XFET Voltage Reference	8-MSOP	5.70	4.56	3.85
ADR510ARTZ-REEL7	ADR510ARTZ-REEL7CT-ND	1V, Precision Reference Shunt*	SOT-23	1.68	1.34	1.01
ADR510ARTZ-REEL7	ADR510ARTZ-REEL7TR-ND	1V, Precision Reference Shunt*	SOT-23	2574.00/3,000		
ADR512ART-R2	ADR512ART-R2CT-ND	1.2V, Precision Reference Shunt	SOT-23	2.43	1.95	1.52
ADR512ART-R2	ADR512ART-R2TR-ND	1.2V, Precision Reference Shunt	SOT-23	359.00/250		
ADR520ARTZ-REEL7	ADR520ARTZ-REEL7CT-ND	Voltage Reference Shunt 2.048V*	SOT-23	1.11	.93	.74
ADR520ARTZ-REEL7	ADR520ARTZ-REEL7TR-ND	Voltage Reference Shunt 2.048V*	SOT-23	1443.00/3,000		
ADR520BKS-R2	ADR520BKS-R2CT-ND	Voltage Reference Shunt 2.048V	SC-70	2.43	1.94	1.46
ADR520BKS-R2	ADR520BKS-R2TR-ND	Voltage Reference Shunt 2.048V	SC-70	290.50/250		
ADR520BRT-R2	ADR520BRT-R2CT-ND	Voltage Reference Shunt 2.048V	SOT-23	2.23	1.78	1.34
ADR520BRT-R2	ADR520BRT-R2TR-ND	Voltage Reference Shunt 2.048V	SOT-23	269.50/250		
ADR525ART-R2	ADR525ART-R2CT-ND	Voltage Reference Shunt 2.5V	SOT-23	1.44	1.20	.96
ADR525ART-R2	ADR525ART-R2TR-ND	Voltage Reference Shunt 2.5V	SOT-23	153.75/250		
ADR525BKS-R2	ADR525BKS-R2CT-ND	Voltage Reference Shunt 2.5V	SC-70	2.43	1.94	1.46
ADR525BKS-R2	ADR525BKS-R2TR-ND	Voltage Reference Shunt 2.5V	SC-70	290.50/250		
ADR525BRT-R2	ADR525BRT-R2CT-ND	Voltage Reference Shunt 2.5V	SOT-23	2.23	1.78	1.34
ADR525BRT-R2	ADR525BRT-R2TR-ND	Voltage Reference Shunt 2.5V	SOT-23	269.50/250		
ADR530ART-R2	ADR530ART-R2CT-ND	Voltage Reference Shunt 3.0V	SOT-23	1.44	1.20	.96
ADR530ART-R2	ADR530ART-R2TR-ND	Voltage Reference Shunt 3.0V	SOT-23	153.75/250		
ADR530BKS-R2	ADR530BKS-R2CT-ND	Voltage Reference Shunt 3.0V	SC-70	2.43	1.94	1.46
ADR530BKS-R2	ADR530BKS-R2TR-ND	Voltage Reference Shunt 3.0V	SC-70	339.50/250		
ADR530BRT-R2	ADR530BRT-R2CT-ND	Voltage Reference Shunt 3.0V	SOT-23	2.23	1.78	1.34
ADR530BRT-R2	ADR530BRT-R2TR-ND	Voltage Reference Shunt 3.0V	SOT-23	269.50/250		
ADR540ART-R2	ADR540ART-R2CT-ND	Voltage Reference Shunt 4.096V	SOT-23	1.44	1.20	.96
ADR540ART-R2	ADR540ART-R2TR-ND	Voltage Reference Shunt 4.096V	SOT-23	153.75/250		
ADR540BKS-R2	ADR540BKS-R2CT-ND	Voltage Reference Shunt 4.096V	SC-70	2.43	1.94	1.46
ADR540BKS-R2	ADR540BKS-R2TR-ND	Voltage Reference Shunt 4.096V	SC-70	290.50/250		
ADR540BRT-R2	ADR540BRT-R2CT-ND	Voltage Reference Shunt 4.096V	SOT-23	2.23	1.78	1.34
ADR540BRT-R2	ADR540BRT-R2TR-ND	Voltage Reference Shunt 4.096V	SOT-23	269.50/250		
ADR550ART-R2	ADR550ART-R2CT-ND	Voltage Reference Shunt 5.0V	SOT-23	1.44	1.20	.96
ADR550ART-R2	ADR550ART-R2TR-ND	Voltage Reference Shunt 5.0V	SOT-23	153.75/250		
ADR550BKS-R2	ADR550BKS-R2CT-ND	Voltage Reference Shunt 5.0V	SC-70	2.43	1.94	1.46
ADR550BKS-R2	ADR550BKS-R2TR-ND	Voltage Reference Shunt 5.0V	SC-70	290.50/250		
ADR550BRT-R2	ADR550BRT-R2CT-ND	Voltage Reference Shunt 5.0V	SOT-23	2.23	1.78	1.34
ADR550BRT-R2	ADR550BRT-R2TR-ND	Voltage Reference Shunt 5.0V	SOT-23	269.50/250		
REF01CP	REF01CP-ND	Precision Voltage Reference 10V	8-Dip	2.34	1.88	1.46
REF01CPZ	REF01CPZ-ND	Precision Voltage Reference 10V*	8-Dip	2.48	1.98	1.49
REF01CS	REF01CS-ND	Precision Volt. Reference 10V*	8-SOIC	2.25	1.80	1.40
REF01CSZ	REF01CSZ-ND	Precision Volt. Reference 10V* ***NEW!***	8-SOIC	2.38	1.90	1.43
REF01EJ	REF01EJ-ND	Precision Voltage Reference 10V	TO-99	15.09	14.09	13.08
REF01EZ	REF01EZ-ND	Precision Voltage Reference 10V*	8-CDip	8.58	7.73	6.85
REF01HP	REF01HP-ND	Precision Voltage Reference 10V	8-Dip	3.58	2.87	2.23
REF01HPZ	REF01HPZ-ND	Precision Voltage Reference 10V*	8-Dip	3.40	2.72	2.12
REF02AZ	REF02AZ-ND	Prec. Volt. Ref./Temp. 5V Transducer*	8-CDip	27.09	25.29	23.48
REF02CPZ	REF02CPZ-ND	Precision Volt. Reference 5V* ***NEW!***	8-Dip	2.48	1.98	1.49
REF02CS	REF02CS-ND	Precision Voltage Reference 5V	8-SOIC	2.25	1.80	1.40
REF02CS-REEL7	REF02CS-REEL7CT-ND	Precision Voltage Reference 5V	8-SOIC	2.25	1.80	1.40
REF02CS-REEL7	REF02CS-REEL7TR-ND	Precision Voltage Reference 5V	8-SOIC	1275.00/1,000		
REF02CSZ	REF02CSZ-ND	Precision Voltage Reference 5V*	8-SOIC	2.38	1.90	1.43
REF02EZ	REF02EZADI-ND	Precision Voltage Reference 5V*	8-CDip	8.93	8.04	7.13
REF02HPZ	REF02HPZ-ND	Precision Voltage Reference 5V*	8-Dip	3.40	2.72	2.12
REF03GP	REF03GP-ND	Precision Volt. Reference 2.5V	8-Dip	2.48	1.98	1.49
REF03GPZ	REF03GPZ-ND	Precision Volt. Reference 2.5V* ***NEW!***	8-Dip	2.48	1.98	1.49
REF03GSZ	REF03GSZ-ND	Precision Voltage Reference 2.5V*	8-SOIC	2.38	1.90	1.43
REF43FZ	REF43FZ-ND	Precision Voltage Reference LP 2.5V*	8-CDip	13.31	11.99	10.63
REF43GPZ	REF43GPZ-ND	Precision Voltage Reference LP 2.5V*	8-Dip	6.70	5.36	4.53
REF43GS	REF43GS-ND	Precision Voltage Reference LP 2.5V	8-SOIC	6.70	5.36	4.53
REF43GSZ	REF43GSZ-ND	Precision Voltage Reference LP 2.5V*	8-SOIC	6.70	5.36	4.53
REF43GZ	REF43GZ-ND	Precision Voltage Reference LP 2.5V*	8-CDip	6.32	5.06	4.27
REF191ESZ	REF191ESZ-ND	Voltage Reference LDO 2.048V*	8-SOIC	4.37	3.50	2.72
REF191GSZ	REF191GSZ-ND	Voltage Reference LDO 2.048V*	8-SOIC	2.43	1.95	1.52
REF192ESZ	REF192ESZ-ND	Voltage Reference LDO 2.5V*	8-SOIC	4.37	3.50	2.72
REF192FSZ	REF192FSZ-ND	Voltage Reference LDO 2.5V*	8-SOIC	3.40	2.72	2.12
REF192GRUZ-REEL7	REF192GRUZREEL7CT-ND	Voltage Reference LDO 2.5V*	8-TSSOP	3.83	3.06	2.38
REF192GRUZ-REEL7	REF192GRUZREEL7TR-ND	Voltage Reference LDO 2.5V*	8-TSSOP	2168.00/1,000		
REF192GSZ	REF192GSZ-ND	Voltage Reference LDO 2.5V*	8-SOIC	2.43	1.95	1.52
REF193GSZ	REF193GSZ-ND	Voltage Reference LDO 3V*	8-SOIC	2.43	1.95	1.52
REF194ES	REF194ES-ND	Voltage Reference LDO 4.5V	8-SOIC	4.37	3.50	2.72
REF194ESZ	REF194ESZ-ND	Voltage Reference LDO 4.5V* ***NEW!***	8-SOIC	4.37	3.50	2.72
REF194GP	REF194GP-ND	Voltage Reference LDO 4.5V	8-Dip	2.43	1.95	1.52
REF194GS	REF194GS-ND	Voltage Reference LDO 4.5V	8-SOIC	2.43	1.95	1.52
REF195ESZ	REF195ESZ-ND	Voltage Reference LDO 5V*	8-SOIC	4.37	3.50	2.72
REF195FSZ	REF195FSZ-ND	Voltage Reference LDO 5V*	8-SOIC	3.40	2.72	2.12
REF195FS-REEL	REF195FS-REELCT-ND	Voltage Reference LDO 5V	8-SOIC	4.55	3.64	2.83
REF195FS-REEL	REF195FS-REELTR-ND	Voltage Reference LDO 5V	8-SOIC	4757.50/2,500		
REF195GP	REF195GP-ND	Voltage Reference LDO 5V	8-Dip	2.43	1.95	1.52
REF195GPZ	REF195GPZ-ND	Voltage Reference LDO 5V*	8-Dip	2.43	1.95	1.52
REF195GSZ	REF195GSZ-ND	Voltage Reference LDO 5V*	8-SOIC	2.43	1.95	1.52
REF196GSZ	REF196GSZ-ND	Voltage Reference LDO 3.3V*	8-SOIC	2.43	1.95	1.52
REF198ESZ	REF198ESZ-ND	Voltage Reference LDO 4.096V*	8-SOIC	4.37	3.50	2.72
REF198FS	REF198FS-ND	Voltage Reference LDO 4.096V	8-SOIC	3.40	2.72	2.12
REF198FSZ	REF198FSZ-ND	Voltage Reference LDO 4.096V*	8-SOIC	3.40	2.72	2.12
REF198GP	REF198GP-ND	Voltage Reference LDO 4.096V	8-Dip	2.43	1.95	1.52
REF198GSZ	REF198GSZ-ND	Voltage Reference LDO 4.096V*	8-SOIC	2.43	1.95	1.52

ANALOG DEVICES WAVEFORM GENERATORS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Sine/Tri/Square Waves				
AD5930YRUZ	AD5930YRUZ-ND	Prog. Frequency Sweep/Output Burst Waveform Generator* ***NEW!***	20-TSSOP	12.81	11.54	10.23
AD5932YRUZ	AD5932YRUZ-ND	Prog. Single-Scan Waveform Generator* ***NEW!***	16-TSSOP	8.33	7.50	6.65
AD9833BRM	AD9833BRM-ND	Prog. Waveform Generator	10-MSOP	9.30	7.44	6.28
AD9833BRMZ	AD9833BRMZ-ND	Prog. Waveform Generator*	10-MSOP	9.30	7.44	6.28
AD9834BRU	AD9834BRU-ND	Complete DDS 2.3V, 50MHz	20-TSSOP	9.70	8.73	7.75
AD9834BRUZ	AD9834BRUZ-ND	Complete DDS 2.3V, 50MHz*	20-TSSOP	9.70	8.73	7.75

ANALOG DEVICES SENSOR/SIGNAL CONDITIONING

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Energy Measurement				
ADE7752AR	ADE7752AR-ND	Energy Metering Detector	24-SOIC	8.76	7.01	5.92
ADE7752ARZ	ADE7752ARZ-ND	Energy Metering Detector*	24-SOIC	8.76	7.01	5.92
ADE7753ARS	ADE7753ARS-ND	Energy Metering Detector	20-SSOP	5.58	4.47	3.77
ADE7754ARZ	ADE7754ARZ-ND	Energy Meter with Serial*	24-SOIC	9.30	8.37	7.43
ADE7754ARZRL	ADE7754ARZRLCT-ND	Energy Meter with Serial* ***NEW!***	24-SOIC	9.30	8.37	7.43
ADE7754ARZRL	ADE7754ARZRLTR-ND	Energy Meter with Serial* ***NEW!***	24-SOIC	6891.00/1,000		
ADE7757ARN	ADE7757ARN-ND	Energy Metering	16-SOIC	3.22	2.58	2.01
ADE7757ARNZ	ADE7757ARNZ-ND	Energy Metering*	16-SOIC	3.22	2.58	2.01
ADE7758ARW	ADE7758ARW-ND	Energy Metering	24-SOIC	12.50	11.25	9.98
ADE7758ARWZ	ADE7758ARWZ-ND	Energy Metering* ***NEW!***	24-SOIC	12.50	11.25	9.98
ADE7759ARS	ADE7759ARS-ND	Energy Meter with Sensor Interface	20-SSOP	6.88	5.51	4.65
ADE7760ARS	ADE7760ARS-ND	Energy Meter with On-Chip Fault Detection	20-SSOP	6.32	5.06	4.27
ADE7761ARS	ADE7761ARS-ND	Energy Meter with On-Chip Fault Detection	20-SSOP	6.62	5.30	4.47
EVAL-ADE7763EB	EVAL-ADE7763EB-ND	Evaluation Board for ADE7763	—	225.00	—	—
		NEW! Capacitance Measurement NEW!				
AD7745ARUZ	AD7745ARUZ-ND	24-Bit Capacitance-to-Digital Converter with Temperature Sensor*	16-TSSOP	9.00	8.10	7.19
		Temperature				
AD590JF	AD590JF-ND	Temperature Transducer 2-Terminal	Flatpack	14.38	12.95	11.48
AD590JH	AD590JH-ND	Temperature Transducer 2-Terminal	TO-52	7.10	5.68	4.80
AD590KF	AD590KF-ND	Temperature Transducer 2-Terminal	Flatpack	15.71	14.15	12.55
AD590KH	AD590KH-ND	Temperature Transducer 2-Terminal	TO-52	8.95	8.06	7.15
AD590LF	AD590LF-ND	Temperature Transducer 2-Terminal	Flatpack	35.19	32.85	30.50
AD590LH	AD590LH-ND	Temperature Transducer 2-Terminal	TO-52	17.93	16.73	15.54
AD590MF	AD590MF-ND	Temperature Transducer 2-Terminal	Flatpack	64.65	60.34	56.03
AD590MH	AD590MH-ND	Temperature Transducer 2-Terminal	TO-52	42.65	39.81	36.96
AD592AN	AD592AN-ND	Temperature Transducer 2-Terminal	TO-92	4.28	3.42	2.66
AD592ANZ	AD592ANZ-ND	Temperature Transducer 2-Terminal*	TO-92	4.28	3.42	2.66
AD592BN	AD592BN-ND	Temperature Transducer 2-Terminal	TO-92	9.85	8.87	7.87
AD592BNZ	AD592BNZ-ND	Temperature Transducer 2-Terminal*	TO-92	9.85	8.87	7.87
AD592CN	AD592CN-ND	Temperature Transducer 2-Terminal	TO-92	13.13	11.82	10.49
AD592CNZ	AD592CNZ-ND	Temperature Transducer 2-Terminal*	TO-92	13.13	11.82	10.49
AD594AQ	AD594AQ-ND	Thermocouple Amp with Comp.	14-Dip	10.43	9.39	8.33
AD594CQ	AD594CQ-ND	Thermocouple Amp with Comp.	14-Dip	16.98	15.85	14.72
AD595AQ	AD595AQ-ND	Thermocouple Amp with Comp.	14-Dip	10.43	9.39	8.33
AD595CQ	AD595CQ-ND	Thermocouple Amp with Comp.	14-Dip	16.98	15.85	14.72
AD596AH	AD596AH-ND	Thermocouple Conditioning	TO-100	11.60	10.44	9.26
AD597AH	AD597AH-ND	Thermocouple Conditioning	TO-100	11.60	10.44	9.26
AD597AR	AD597AR-ND	Thermocouple Conditioning	8-SOIC	5.16	4.13	3.49
AD597ARZ	AD597ARZ-ND	Thermocouple Conditioning*	8-SOIC	5.16	4.13	3.49
AD22100AR	AD22100AR-ND	Temperature Sensor Voltage Out	8-SOIC	5.78	4.63	3.91
AD22100ARZ	AD22100ARZ-ND	Temperature. Sensor Voltage Out*	8-SOIC	5.78	4.63	3.91
AD22100AT	AD22100AT-ND	Temperature Sensor Voltage Out	TO-92	5.26	4.21	3.56
AD22100ATZ	AD22100ATZ-ND	Temperature Sensor Voltage Out*	TO-92	5.26	4.21	3.56
AD22100KRZ	AD22100KRZ-ND	Temperature Sensor Voltage Out* ***NEW!***	8-SOIC	3.94	3.15	2.45
AD22100KTZ	AD22100KTZ-ND	Temperature Sensor Voltage Out*	TO-92	3.49	2.79	2.17
AD22100SR	AD22100SR-ND	Temperature Sensor Volt. Out	8-SOIC	6.36	5.09	4.30
AD22100SRZ	AD22100SRZ-ND	Temperature Sensor Volt. Out* ***NEW!***	8-SOIC	6.36	5.09	4.30
AD22100ST	AD22100ST-ND	Temperature Sensor Volt. Out	TO-92	5.78	4.63	3.91
AD22100STZ	AD22100STZ-ND	Temperature Sensor Volt. Out* ***NEW!***	TO-92	5.78	4.63	3.91
AD22105ARZ	AD22105ARZ-ND	Thermostatic Switch Solid State* ***NEW!***	8-SOIC	3.08	2.47	1.92
AD7414ARM-0REEL7	AD7414ARM0REEL7CT-ND	Temperature Sensor 10-Bit Digital	8-MSOP	2.59	2.07	1.61
AD7414ARM-0REEL7	AD7414ARM0REEL7TR-ND	Temperature Sensor 10-Bit Digital	8-MSOP	1466.00/1,000		
AD7414ARM-1REEL7	AD7414ARM1REEL7CT-ND	Temperature Sensor 10-Bit Digital	8-MSOP	2.59	2.07	1.61
AD7414ARM-1REEL7	AD7414ARM1REEL7TR-ND	Temperature Sensor 10-Bit Digital	8-MSOP	1466.00/1,000		
AD7414ART-0REEL7	AD7414ART0REEL7CT-ND	Temperature Sensor 10-Bit	SOT-23-6	2.35	1.88	1.41
AD7414ART-0REEL7	AD7414ART0REEL7TR-ND	Temperature Sensor 10-Bit	SOT-23-6	3609.00/3,000		
AD7414ART-1REEL7	AD7414ART1REEL7CT-ND	Temperature Sensor 10-Bit	SOT-23-6	2.35	1.88	1.41
AD7414ART-1REEL7	AD7414ART1REEL7TR-ND	Temperature Sensor 10-Bit	SOT-23-6	3609.00/3,000		
AD7414ARTZ-0500RL7	AD7414ARTZ0500RCT-ND	Temperature Sensor 10-Bit*	SOT-23-6	2.30	1.84	1.43
AD7414ARTZ-0500RL7	AD7414ARTZ0500RTR-ND	Temperature Sensor 10-Bit*	SOT-23-6	663.00/500		

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ANALOG DEVICES SENSOR/SIGNAL CONDITIONING *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD7415ARTZ-0500RL7	AD7415ARTZ-0500RL7CT-ND	Temperature Sensor 10-Bit* **NEW!**	SOT-23-5	2.30	1.84	1.43
AD7415ARTZ-0500RL7	AD7415ARTZ-0500RL7TR-ND	Temperature Sensor 10-Bit* **NEW!**	SOT-23-5	663.00/500		
AD7416AR	AD7416AR-ND	Temperature Sensor 10-Bit	8-SOIC	2.34	1.88	1.46
AD7416ARZ	AD7416ARZ-ND	Temperature Sensor 10-Bit*	8-SOIC	2.34	1.88	1.46
AD7416ARM	AD7416ARM-ND	Temperature Sensor 10-Bit	8-MSOP	2.34	1.88	1.46
AD7416ARMZ	AD7416ARMZ-ND	Temperature Sensor 10-Bit*	8-MSOP	2.34	1.88	1.46
AD7417ARZ	AD7417ARZ-ND	Temperature Sensor 10-Bit and Four 1-Channel ADCs* **NEW!**	16-SOIC	6.30	5.04	4.26
AD7417ARU	AD7417ARU-ND	Temperature Sensor 10-Bit and Four 1-Channel ADCs	16-TSSOP	6.30	5.04	4.26
AD7417ARUZ	AD7417ARUZ-ND	Temperature Sensor 10-Bit and Four 1-Channel ADCs*	16-TSSOP	6.30	5.04	4.26
AD7418ARMZ	AD7418ARMZ-ND	Temperature Sensor 10-Bit and Four 1-Channel ADCs*	8-MSOP	5.30	4.24	3.58
AD7418ARZ	AD7418ARZ-ND	Temperature Sensor 10-Bit and Four 1-Channel ADCs*	8-SOIC	5.30	4.24	3.58
AD7814ARM	AD7814ARM-ND	Digital Temperature Sensor 10-Bit	8-MSOP	2.48	1.98	1.54
AD7814ARMZ	AD7814ARMZ-ND	Digital Temperature Sensor 10-Bit*	8-MSOP	2.48	1.98	1.54
AD7814ART-REEL7	AD7814ART-REEL7CT-ND	Digital Temperature Sensor 10-Bit	SOT-23-6	2.25	1.80	1.35
AD7814ART-REEL7	AD7814ART-REEL7TR-ND	Digital Temperature Sensor 10-Bit	SOT-23-6	3456.00/3,000		
AD7814ARTZ-500RL7	AD7814ARTZ500RLCT-ND	Digital Temperature Sensor 10-Bit*	SOT-23-6	2.25	1.80	1.40
AD7814ARTZ-500RL7	AD7814ARTZ500RLTR-ND	Digital Temperature Sensor 10-Bit*	SOT-23-6	650.00/500		
AD22103KT	AD22103KT-ND	Temp. Sensor 3.3V Signal Conditioning	TO-92	2.86	2.29	1.78
AD22103KTZ	AD22103KTZ-ND	Temp. Sensor 3.3V Signal Conditioning* **NEW!**	TO-92	2.86	2.29	1.78
AD22151YR	AD22151YR-ND	Magnetic Field Sensor Linear	8-SOIC	4.79	3.84	2.99
AD22151YRZ	AD22151YRZ-ND	Magnetic Field Sensor Linear* **NEW!**	8-SOIC	4.79	3.84	2.99
ADM1021AARQZ	ADM1021AARQZ-ND	Digital Thermometer 2-Ch.*	16-QSOP	7.90	6.32	5.34
ADM1022ARQ	ADM1022ARQ-ND	Sensor Temp./Detector 3/5.5V	16-QSOP	7.50	6.00	5.07
ADM1024ARUZ	ADM1024ARUZ-ND	Monitor System Temp./Volt.*	24-TSSOP	7.50	6.00	5.07
ADT7519ARQZ	ADT7519ARQZ-ND	SPI/I2C Compatible, Temp Sensor, 4-Ch. ADC and Quad Volt. DAC*	16-QSOP	7.38	5.91	4.99
TMP01ES	TMP01ES-ND	Temp. Sensor/Controller	8-SOIC	8.38	6.71	5.66
TMP01ESZ	TMP01ESZ-ND	Temp. Sensor/Controller* **NEW!**	8-SOIC	8.38	6.71	5.66
TMP01FPZ	TMP01FPZ-ND	Temperature Sensor/ Controller* **NEW!**	8-Dip	5.10	4.08	3.45
TMP01FSZ	TMP01FSZ-ND	Temp. Sensor/Controller* **NEW!**	8-SOIC	5.13	4.11	3.20
TMP04FSZ	TMP04FSZ-ND	Temperature Sensor/ Serial* **NEW!**	8-SOIC	5.60	4.48	3.78
TMP04FS-REEL	TMP04FS-REELCT-ND	Temperature Sensor/Serial	8-SOIC	5.60	4.48	3.78
TMP04FS-REEL	TMP04FS-REELTR-ND	Temperature Sensor/Serial	8-SOIC	8680.00/2,500		
TMP04FSZ-REEL	TMP04FSZ-REELCT-ND	Temperature Sensor/Serial* **NEW!**	8-SOIC	5.60	4.48	3.78
TMP04FSZ-REEL	TMP04FSZ-REELTR-ND	Temperature Sensor/Serial* **NEW!**	8-SOIC	8680.00/2,500		
TMP04FT9	TMP04FT9-ND	Temperature Sensor/Serial	TO-92	5.60	4.48	3.78
TMP04FT9Z	TMP04FT9Z-ND	Temperature Sensor/Serial* **NEW!**	TO-92	5.60	4.48	3.78
TMP05AKSZ-500RL7	TMP05AKSZ-500RL7CT-ND	Temperature Sensor PWM*	SC70-5	2.32	1.86	1.45
TMP05AKSZ-500RL7	TMP05AKSZ-500RL7TR-ND	Temperature Sensor PWM*	SC70-5	669.50/500		
TMP05ARTZ-500RL7	TMP05ARTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	2.32	1.86	1.45
TMP05ARTZ-500RL7	TMP05ARTZ-500RL7TR-ND	Temperature Sensor PWM*	SOT-23-5	669.50/500		
TMP05BKSZ-500RL7	TMP05BKSZ-500RL7CT-ND	Temperature Sensor PWM*	SC70-5	3.31	2.65	2.06
TMP05BKSZ-500RL7	TMP05BKSZ-500RL7TR-ND	Temperature Sensor PWM*	SC70-5	955.50/500		
TMP05BRTZ-500RL7	TMP05BRTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	3.31	2.65	2.06
TMP05BRTZ-500RL7	TMP05BRTZ-500RL7TR-ND	Temperature Sensor PWM*	SOT-23-5	955.50/500		
TMP06AKSZ-500RL7	TMP06AKSZ-500RL7CT-ND	Temperature Sensor PWM*	SC70-5	2.32	1.86	1.45
TMP06AKSZ-500RL7	TMP06AKSZ-500RL7TR-ND	Temperature Sensor PWM*	SC70-5	669.50/500		
TMP06ARTZ-500RL7	TMP06ARTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	2.32	1.86	1.45
TMP06ARTZ-500RL7	TMP06ARTZ-500RL7TR-ND	Temperature Sensor PWM*	SOT-23-5	669.50/500		
TMP06BKSZ-500RL7	TMP06BKSZ-500RL7CT-ND	Temperature Sensor PWM*	SC70-5	3.31	2.65	2.06
TMP06BKSZ-500RL7	TMP06BKSZ-500RL7TR-ND	Temperature Sensor PWM*	SC70-5	955.50/500		
TMP06BRTZ-500RL7	TMP06BRTZ-500RL7CT-ND	Temperature Sensor PWM*	SOT-23-5	3.31	2.65	2.06
TMP06BRTZ-500RL7	TMP06BRTZ-500RL7TR-ND	Temperature Sensor PWM*	SOT-23-5	955.50/500		
TMP12FS	TMP12FS-ND	Temperature Sensor/Airflow	8-SOIC	4.48	3.59	2.79
TMP35GRT-REEL7	TMP35GRT-REEL7CT-ND	Temperature Sensor 2.7/5.5V	SOT-23-5	1.20	1.00	.80
TMP35GRT-REEL7	TMP35GRT-REEL7TR-ND	Temperature Sensor 2.7/5.5V	SOT-23-5	1560.00/3,000		
TMP35GT9	TMP35GT9-ND	Temperature Sensor 2.7/5.5V	TO-92	1.20	1.00	.80
TMP36FS	TMP36FS-ND	Temperature Sensor 2.7/5.5V	8-SOIC	1.45	1.16	.87
TMP36FSZ	TMP36FSZ-ND	Temperature Sensor 2.7/5.5V* **NEW!**	8-SOIC	1.45	1.16	.87
TMP36FS-REEL	TMP36FS-REELCT-ND	Temperature Sensor 2.7/5.5V	8-SOIC	1.45	1.16	.87
TMP36FS-REEL	TMP36FS-REELTR-ND	Temperature Sensor 2.7/5.5V	8-SOIC	1855.00/2,500		
TMP36GSZ	TMP36GSZ-ND	Temperature Sensor 2.7/5.5V*	8-SOIC	1.20	1.00	.80
TMP36GT9Z	TMP36GT9Z-ND	Temperature Sensor 2.7/5.5V*	TO-92	1.20	1.00	.80

Transmitter

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD693AD	AD693AD-ND	Signal Conditioning 4-20mA Transmitter	20-Dip	24.05	22.45	20.84
AD693AQ	AD693AQ-ND	Signal Conditioning 4-20mA Transmitter	20-Dip	15.78	14.21	12.60
AD694AQ	AD694AQ-ND	Signal Conditioning 4-20mA Transmitter	16-CDip	14.78	13.31	11.80
AD694AR	AD694AR-ND	Transmitter 4-20mA	16-SOIC	9.93	8.94	7.93
AD694ARZ	AD694ARZ-ND	Transmitter 4-20mA*	16-SOIC	9.93	8.94	7.93
AD694JN	AD694JN-ND	Transmitter 4-20mA	16-Dip	10.78	9.71	8.61
AD694JNZ	AD694JNZ-ND	Transmitter 4-20mA*	16-Dip	10.78	9.71	8.61

ANALOG DEVICES SIGNAL PROCESSOR

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD9814JR	AD9814JR-ND	14-Bit CCD/CIS Signal Processor	28-SOIC	15.98	14.39	12.76
AD9821KSTZ	AD9821KSTZ-ND	12-Bit Image Signal Processor* **NEW!**	48-LQFP	16.80	15.68	14.56
AD9822JR	AD9822JR-ND	14-Bit CCD/CIS Signal Processor	28-SOIC	6.94	5.56	4.69
AD9826KRS	AD9826KRS-ND	16-Bit Image Signal Processor	28-SSOP	9.16	8.25	7.32
AD9826KRSZ	AD9826KRSZ-ND	16-Bit Image Signal Processor*	28-SSOP	9.16	8.25	7.32

ANALOG DEVICES SPECIALIZED IC

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AD246JY	AD246JY-ND	Clock Driver	4-Dip	111.48	104.05	96.62
AD630JN	AD630JN-ND	Mod/Demod Balanced	20-Dip	16.14	14.54	12.89
AD5533BBC-1	AD5533BBC-1-ND	Infinite Sample and Hold 32-Ch.	74-CSPBGA	82.35	76.86	71.37
AD73311AR	AD73311AR-ND	Analog Front End Low Power	20-SOIC	7.84	6.28	5.30
AD73360ASU	AD73360ASU-ND	Analog Front End 6-Channel	44-TQFP	13.73	12.36	10.96
AD73360LAR	AD73360LAR-ND	Analog Front End 6-Channel	28-SOIC	9.10	8.19	7.27
AD73422BB-80	AD73422BB-80-ND	Front End Dual with DSP	119-BGA	35.21	32.86	30.52
AD7720BRU	AD7720BRU-ND	Modulator Sigma-Delta	28-TSSOP	15.68	14.12	12.52
AD8383ACPZ	AD8383ACPZ-ND	10-Bit, 6-Ch. Output, Decimating LCD DecDriver®*	48-LFCSP	8.20	6.56	5.54
AD8384ASVZ	AD8384ASVZ-ND	10-Bit, 6-Ch. Decimating LCD DecDriver®*	80-TQFP	8.66	7.80	6.92
AD8389ACPZ	AD8389ACPZ-ND	Triple, 6-Ch. LCD Timing Delay Locked Loop*	48-LFCSP	3.38	2.70	2.10
AD9856AST	AD9856AST-ND	Quadrature Digital Up Converter	48-TQFP	23.22	21.68	20.13
AD9857ASTZ	AD9857ASTZ-ND	Quad Digital Up Converter* **NEW!**	80-QFP	24.65	23.01	21.36
AD9662ARQZ	AD9662ARQZ-ND	Laser Diode Driver 3-Channel*	16-QSOP	5.36	4.29	3.62
AD96685BRZ	AD96685BRZ-ND	Ultrafast Comparator*	16-SOIC	5.84	4.68	3.95
ADM1041AARQZ	ADM1041AARQZ-ND	Secondary-Side Controller with Current Share/Housekeeping* **NEW!**	24-QSOP	9.91	8.93	7.92
ADM1041ARQ	ADM1041ARQ-ND	Secondary-Side Controller with Current Share/Housekeeping	24-QSOP	9.91	8.93	7.92
ADM1041ARQZ	ADM1041ARQZ-ND	Secondary-Side Controller with Current Share/Housekeeping* **NEW!**	24-QSOP	9.91	8.93	7.92

ANALOG DEVICES SUPERVISORY CIRCUITS AND RESET GENERATORS

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM690AARNZ	ADM690AARNZ-ND	Supervisor MPU 4.65V Watchdog*	8-SOIC	1.44	1.16	.90
ADM690ANZ	ADM690ANZ-ND	Supervisor MPU 4.65V Watchdog*	8-Dip	1.44	1.16	.90
ADM691AAN	ADM691AAN-ND	Supervisor MPU 4.65V, 250mA	16-Dip	1.60	1.28	.96
ADM691AARNZ	ADM691AARNZ-ND	Supervisor MPU 4.65V, 250mA*	16-SOIC	1.44	1.16	.90
ADM691AARWZ	ADM691AARWZ-ND	Supervisor MPU 4.65V, 250mA*	16-SOIC	1.44	1.16	.90
ADM691AARW-REEL	ADM691AARW-REELCT-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	3.87	3.10	2.41
ADM691AARW-REEL	ADM691AARW-REELTR-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	832.00/1,000		
ADM691AN	ADM691AN-ND	Supervisor MPU 4.65V, 100mA	16-Dip	1.60	1.28	.96
ADM691ANZ	ADM691ANZ-ND	Supervisor MPU 4.65V, 100mA* **NEW!**	16-Dip	1.60	1.28	.96
ADM691ARZ	ADM691ARZ-ND	Supervisor MPU 4.65V, 250mA*	16-SOIC	1.44	1.16	.90
ADM691AR-REEL	ADM691AR-REELTR-ND	Supervisor MPU 4.65V, 250mA	16-SOIC	832.00/1,000		
ADM691ARZ-REEL7	ADM691ARZ-REEL7TR-ND	Supervisor MPU 4.65V, 250mA* **NEW!**	16-SOIC	358.40/400		
ADM692AN	ADM692AN-ND	Supervisor MPU 4.4V, 100mA Watchdog	8-Dip	1.58	1.26	.95
ADM693ANZ	ADM693ANZ-ND	Supervisor MPU 4.4V, 100mA Watchdog*	16-Dip	1.42	1.14	.89
ADM693AR	ADM693AR-ND	Supervisor MPU 4.4V, 100mA Watchdog	16-SOIC	1.58	1.26	.95
ADM693ARZ	ADM693ARZ-ND	Supervisor MPU 4.4V, 100mA Watchdog*	16-SOIC	1.42	1.14	.89
ADM694ANZ	ADM694ANZ-ND	Supervisor MPU 4.65V, 100mA*	8-Dip	1.37	1.10	.86
ADM695AN	ADM695AN-ND	Supervisor MPU 4.65V, 100mA	16-Dip	1.53	1.22	.92
ADM695AR	ADM695AR-ND	Supervisor MPU 4.65V, 100mA	16-SOIC	1.53	1.22	.92
ADM695ARZ	ADM695ARZ-ND	Supervisor MPU 4.65V, 100mA*	16-SOIC	1.37	1.10	.86
ADM696ARZ	ADM696ARZ-ND	Supervisor MPU 4.65V, 100mA*	16-SOIC	1.33	1.07	.83
ADM699ANZ	ADM699ANZ-ND	Supervisor MPU 4.65V Watchdog*	8-Dip	1.30	1.04	.78
ADM699AR	ADM699AR-ND	Supervisor MPU 4.65V Watchdog	16-SOIC	1.47	1.23	.98
ADM699ARZ	ADM699ARZ-ND	Supervisor MPU 4.65V Watchdog*	16-SOIC	1.23	.98	.74
ADM699AR-REEL	ADM699AR-REELCT-ND	Supervisor MPU 4.65V Watchdog	16-SOIC	1.47	1.23	.98
ADM699AR-REEL	ADM699AR-REELTR-ND	Supervisor MPU 4.65V Watchdog	16-SOIC	652.00/1,000		
ADM705AN	ADM705AN-ND	Supervisor MPU 4.65V Watchdog	8-Dip	1.32	1.10	.88
ADM705ARZ	ADM705ARZ-ND	Supervisor MPU 4.65V Watchdog*	8-SOIC	1.04	.83	.65
ADM705AR-REEL7	ADM705AR-REEL7TR-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	612.00/1,000		
ADM706AN	ADM706AN-ND	Supervisor MPU 4.4V Watchdog	8-Dip	1.32	1.10	.88
ADM706ANZ	ADM706ANZ-ND	Supervisor MPU 4.4V Watchdog*	8-Dip	1.10	.88	.66
ADM706AR	ADM706AR-ND	Supervisor MPU 4.4V Watchdog	8-SOIC	1.29	1.08	.86
ADM706ARZ	ADM706ARZ-ND	Supervisor MPU 4.4V Watchdog*	8-SOIC	.97	.78	.61
ADM706RARZ	ADM706RARZ-ND	Supervisor MPU 2.63V Watchdog*	8-SOIC	.97	.78	.61
ADM706SARZ	ADM706SARZ-ND	Supervisor MPU 2.93V Watchdog*	8-SOIC	.97	.78	.61
ADM706TARZ	ADM706TARZ-ND	Supervisor MPU 3.08V Watchdog*	8-SOIC	.97	.78	.61
ADM707AN	ADM707AN-ND	Supervisor MPU 4.65V Watchdog	8-Dip	1.32	1.10	.88
ADM707ARZ	ADM707ARZ-ND	Supervisor MPU 4.65V Watchdog*	8-SOIC	.97	.78	.61
ADM707AR-REEL	ADM707AR-REELCT-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	2.25	1.80	1.40
ADM707AR-REEL	ADM707AR-REELTR-ND	Supervisor MPU 4.65V Watchdog	8-SOIC	1397.50/2,500		
ADM708AN	ADM708AN-ND	Supervisor MPU 4.4V Watchdog	8-Dip	1.32	1.10	.88
ADM708AR	ADM708AR-ND	Supervisor MPU 4.4V Watchdog	8-SOIC	1.29	1.08	.86
ADM708ARZ	ADM708ARZ-ND	Supervisor MPU 4.4V Watchdog*	8-SOIC	1.08	.86	.65
ADM708RAR	ADM708RAR-ND	Supervisor MPU 2.63V Watchdog	8-SOIC	1.29	1.08	.86
ADM708RARZ	ADM708RARZ-ND	Supervisor MPU 2.63V Watchdog*	8-SOIC	1.08	.86	.65
ADM708SARZ	ADM708SARZ-ND	Supervisor MPU 2.93V Watchdog*	8-SOIC	1.08	.86	.65
ADM708TAR	ADM708TAR-ND	Supervisor MPU 3.08V Watchdog	8-SOIC	1.29	1.08	.86
ADM708TARZ	ADM708TARZ-ND	Supervisor MPU 3.08V Watchdog*	8-SOIC	1.08	.86	.65
ADM709LAN	ADM709LAN-ND	Supervisor MPU 4.65V	8-Dip	1.32	1.10	.88
ADM709LAR	ADM709LAR-ND	Supervisor MPU 4.65V	8-SOIC	1.11	.93	.74
ADM709LARZ	ADM709LARZ-ND	Supervisor MPU 4.65V*	8-SOIC	.93	.74	.56
ADM809-5SART-REEL7	ADM809-5SARTRL7CT-ND	Supervisor MPU 2.93V	SOT-23	1.55	1.24	.93
ADM809-5SART-REEL7	ADM809-5SARTRL7TR-ND	Supervisor MPU 2.93V	SOT-23	2382.00/3,000		
ADM809LARTZ-REEL7	ADM809LARTZ-REEL7CT-ND	Supervisor MPU 4.63V*	SOT-23	1.10	.88	.66
ADM809LARTZ-REEL7	ADM809LARTZ-REEL7TR-ND	Supervisor MPU 4.63V*	SOT-23	614.40/3,000		
ADM809MARTZ-REEL7	ADM809MARTZ-REEL7CT-ND	Supervisor Pushpull 4.38V*	SOT-23	.40	.32	.24
ADM809MARTZ-REEL7	ADM809MARTZ-REEL7TR-ND	Supervisor Pushpull 4.38V*	SOT-23	614.40/3,000		
ADM809SART-REEL7	ADM809SART-RL7CT-ND	Supervisor Pushpull 2.93V	SOT-23	.40	.32	.24
ADM809SARTZ-REEL7	ADM809SARTZ-REEL7CT-ND	Supervisor Pushpull 2.93V*	SOT-23	.40	.32	.24
ADM809SARTZ-REEL7	ADM809SARTZ-REEL7TR-ND	Supervisor Pushpull 2.93V*	SOT-23	614.40/3,000		
ADM809TARTZ-REEL7	ADM809TARTZ-REEL7CT-ND	Supervisor Pushpull 3.08V* **NEW!**	SOT-23	.64	.48	.36
ADM809TARTZ-REEL7	ADM809TARTZ-REEL7TR-ND	Supervisor Pushpull 3.08V* **NEW!**	SOT-23	624.00/3,000		
ADM810JAKS-REEL7	ADM810JAKS-RL7CT-ND	Supervisor Pushpull 4.0V	SC-70	1.50	1.20	.90
ADM810JAKS-REEL7	ADM810JAKS-RL7TR-ND	Supervisor Pushpull 4.0V	SC-70	2304.00/3,000		

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ANALOG DEVICES SUPERVISORY CIRCUITS AND RESET GENERATORS *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADM810LART-REEL7	ADM810LART-RL7CT-ND	Supervisor Pushpull 4.63V	SOT-23	.68	.51	.39
ADM810LARTZ-REEL7	ADM810LARTZ-REEL7CT-ND	Supervisor Pushpull 4.63V*	SOT-23	.43	.34	.26
ADM810LARTZ-REEL7	ADM810LARTZ-REEL7TR-ND	Supervisor Pushpull 4.63V*	SOT-23	652.80/3,000		
ADM811LART-REEL7	ADM811LART-RL7CT-ND	Supervisor with Reset 4.63V	SOT-143-4	1.35	1.13	.90
ADM811LART-REEL7	ADM811LART-RL7TR-ND	Supervisor with Reset 4.63V	SOT-143-4	702.00/3,000		
ADM811LARTZ-REEL7	ADM811LARTZ-REEL7CT-ND	Supervisor with Reset 4.63V*	SOT-143-4	.54	.45	.36
ADM811LARTZ-REEL7	ADM811LARTZ-REEL7TR-ND	Supervisor with Reset 4.63V*	SOT-143-4	702.00/3,000		
ADM811RART-REEL7	ADM811RART-RL7CT-ND	Supervisor with Reset 2.63V	SOT-143-4	1.35	1.13	.90
ADM811RART-REEL7	ADM811RART-RL7TR-ND	Supervisor with Reset 2.63V	SOT-143-4	702.00/3,000		
ADM811RARTZ-REEL7	ADM811RARTZ-REEL7CT-ND	Supervisor w/Reset 2.63V* ***NEW!***	SOT-143-4	.54	.45	.36
ADM811RARTZ-REEL7	ADM811RARTZ-REEL7TR-ND	Supervisor w/Reset 2.63V* ***NEW!***	SOT-143-4	702.00/3,000		
ADM811SARTZ-REEL7	ADM811SARTZ-REEL7CT-ND	Supervisor with Reset 2.93V*	SOT-143-4	.54	.45	.36
ADM811SARTZ-REEL7	ADM811SARTZ-REEL7TR-ND	Supervisor with Reset 2.93V*	SOT-143-4	702.00/3,000		
ADM823LYKS-R7	ADM823LYKS-R7CT-ND	Supervisor Circuit w/Watchdog 4.63V	SC70-5	1.47	1.23	.98
ADM823LYKS-R7	ADM823LYKS-R7TR-ND	Supervisor Circuit w/Watchdog 4.63V	SC70-5	1911.00/3,000		
ADM823LYRJZ-R7	ADM823LYRJZ-R7CT-ND	Supervisor Circuit with Watchdog 4.63V*	SOT-23-5	1.47	1.23	.98
ADM823LYRJZ-R7	ADM823LYRJZ-R7TR-ND	Supervisor Circuit with Watchdog 4.63V*	SOT-23-5	1911.00/3,000		
ADM823MYKS-R7	ADM823MYKS-R7CT-ND	Supervisor Circuit w/Watchdog 4.38V	SC70-5	1.47	1.23	.98
ADM823MYKS-R7	ADM823MYKS-R7TR-ND	Supervisor Circuit w/Watchdog 4.38V	SC70-5	1911.00/3,000		
ADM823MYRJZ-R7	ADM823MYRJZ-R7CT-ND	Supervisor Circuit with Watchdog 4.38V*	SOT-23-5	1.47	1.23	.98
ADM823MYRJZ-R7	ADM823MYRJZ-R7TR-ND	Supervisor Circuit with Watchdog 4.38V*	SOT-23-5	1911.00/3,000		
ADM823RYKS-R7	ADM823RYKS-R7CT-ND	Supervisor Circuit w/Watchdog 2.63V	SC70-5	1.47	1.23	.98
ADM823RYKS-R7	ADM823RYKS-R7TR-ND	Supervisor Circuit w/Watchdog 2.63V	SC70-5	1911.00/3,000		
ADM823RYRJ-R7	ADM823RYRJ-R7CT-ND	Supervisor Circuit with Watchdog 2.63V	SOT-23-5	1.47	1.23	.98
ADM823RYRJ-R7	ADM823RYRJ-R7TR-ND	Supervisor Circuit with Watchdog 2.63V	SOT-23-5	1911.00/3,000		
ADM823SYKS-R7	ADM823SYKS-R7CT-ND	Supervisor Circuit w/Watchdog 2.93V	SC70-5	1.47	1.23	.98
ADM823SYKS-R7	ADM823SYKS-R7TR-ND	Supervisor Circuit w/Watchdog 2.93V	SC70-5	1911.00/3,000		
ADM823SYRJ-R7	ADM823SYRJ-R7CT-ND	Supervisor Circuit with Watchdog 2.93V	SOT-23-5	1.47	1.23	.98
ADM823SYRJ-R7	ADM823SYRJ-R7TR-ND	Supervisor Circuit with Watchdog 2.93V	SOT-23-5	1911.00/3,000		
ADM823TYKS-R7	ADM823TYKS-R7CT-ND	Supervisor Circuit w/Watchdog 3.08V	SC70-5	1.47	1.23	.98
ADM823TYKS-R7	ADM823TYKS-R7TR-ND	Supervisor Circuit w/Watchdog 3.08V	SC70-5	1911.00/3,000		
ADM823TYRJ-R7	ADM823TYRJ-R7CT-ND	Supervisor Circuit with Watchdog 3.08V	SOT-23-5	1.47	1.23	.98
ADM823TYRJ-R7	ADM823TYRJ-R7TR-ND	Supervisor Circuit with Watchdog 3.08V	SOT-23-5	1911.00/3,000		
ADM823YYKS-R7	ADM823YYKS-R7CT-ND	Supervisor Circuit w/Watchdog 2.19V	SC70-5	1.47	1.23	.98
ADM823YYKS-R7	ADM823YYKS-R7TR-ND	Supervisor Circuit w/Watchdog 2.19V	SC70-5	1911.00/3,000		
ADM823ZYKS-R7	ADM823ZYKS-R7CT-ND	Supervisor Circuit w/Watchdog 2.32V	SC70-5	1.47	1.23	.98
ADM823ZYKS-R7	ADM823ZYKS-R7TR-ND	Supervisor Circuit w/Watchdog 2.32V	SC70-5	1911.00/3,000		
ADM1026JST-REEL7	ADM1026JSTREEL7CT-ND	Control System Reference/EEPROM	48-LQFP	9.91	8.93	7.92
ADM1026JST-REEL7	ADM1026JSTREEL7TR-ND	Control System Reference/EEPROM	48-LQFP	3719.00/500		
ADM1026JSTZ-REEL7	ADM1026JSTZ-REEL7CT-ND	Control System Reference/ EEPROM* ***NEW!***	48-LQFP	9.91	8.93	7.92
ADM1026JSTZ-REEL7	ADM1026JSTZ-REEL7TR-ND	Control System Reference/ EEPROM* ***NEW!***	48-LQFP	3719.00/500		
ADM1026JSTZ	ADM1026JSTZ-ND	Control System Reference/EEPROM*	48-LQFP	9.91	8.93	7.92
ADM1070ART-REEL7	ADM1070ARTREEL7CT-ND	Hotswap Controller 48V	SOT-23-6	3.49	2.79	2.17
ADM1070ART-REEL7	ADM1070ARTREEL7TR-ND	Hotswap Controller 48V	SOT-23-6	5859.00/3,000		
ADM1073ARUZ	ADM1073ARUZ-ND	Hotswap Controller, Full-Feature, -48V*	14-TSSOP	5.06	4.05	3.15
ADM1232AN	ADM1232AN-ND	Supervisor/CPU	8-Dip	1.28	1.02	.77
ADM1232ANZ	ADM1232ANZ-ND	Supervisor/CPU* ***NEW!***	8-Dip	1.28	1.02	.77
ADM1232ARN	ADM1232ARN-ND	Supervisor/CPU	8-SOIC	1.28	1.02	.77
ADM1232ARNZ	ADM1232ARNZ-ND	Supervisor/CPU*	8-SOIC	1.28	1.02	.77
ADM1232ARN-REEL7	ADM1232ARNREEL7TR-ND	Supervisor/CPU	8-SOIC	663.00/1,000		
ADM1815-20ART-RL7	ADM181520ARTRL7CT-ND	Monitor Reset 2.55V	SOT-23	1.17	.98	.78
ADM1815-20ART-RL7	ADM181520ARTRL7TR-ND	Monitor Reset 2.55V	SOT-23	1521.00/3,000		
ADM1818-10ART-RL7	ADM181810ARTRL7CT-ND	Monitor Reset 2.88V	SOT-23	1.20	1.00	.80
ADM1818-10ART-RL7	ADM181810ARTRL7TR-ND	Monitor Reset 2.88V	SOT-23	1560.00/3,000		
ADM1818-20ART-RL7	ADM181820ARTRL7CT-ND	Monitor Reset 2.55V	SOT-23	1.20	1.00	.80
ADM1818-20ART-RL7	ADM181820ARTRL7TR-ND	Monitor Reset 2.55V	SOT-23	1560.00/3,000		
ADM6318CY46ARJZ-R7	ADM6318CY46ARJZCT-ND	Supervisor with Watchdog*	SOT-23-5	1.47	1.23	.98
ADM6318CY46ARJZ-R7	ADM6318CY46ARJZTR-ND	Supervisor with Watchdog*	SOT-23-5	1911.00/3,000		
ADM6320CY29ARJ-R7	ADM6320CY29ARJRCT-ND	Supervisor with Watchdog	SOT-23-5	1.47	1.23	.98
ADM6320CY29ARJ-R7	ADM6320CY29ARJRTR-ND	Supervisor with Watchdog	SOT-23-5	1911.00/3,000		
ADM6320CY46ARJ-R7	ADM6320CY46ARJRCT-ND	Supervisor with Watchdog	SOT-23-5	1.47	1.23	.98
ADM6320CY46ARJ-R7	ADM6320CY46ARJRTR-ND	Supervisor with Watchdog	SOT-23-5	1911.00/3,000		
ADM6713LAKS-REEL7	ADM6713LAKS-RL7CT-ND	Supervisor Open Drain 4.63V	SC70-4	.78	.65	.52
ADM6713LAKS-REEL7	ADM6713LAKS-RL7TR-ND	Supervisor Open Drain 4.63V	SC70-4	1014.00/3,000		
ADM6713MAKS-REEL7	ADM6713MAKS-RL7CT-ND	Supervisor Open Drain 4.38V	SC70-4	.78	.65	.52
ADM6713MAKS-REEL7	ADM6713MAKS-RL7TR-ND	Supervisor Open Drain 4.38V	SC70-4	1014.00/3,000		
ADM6713RAKS-REEL7	ADM6713RAKS-RL7CT-ND	Supervisor Open Drain 2.63V	SC70-4	.78	.65	.52
ADM6713RAKS-REEL7	ADM6713RAKS-RL7TR-ND	Supervisor Open Drain 2.63V	SC70-4	1014.00/3,000		
ADM6713SAKS-REEL7	ADM6713SAKS-RL7CT-ND	Supervisor Open Drain 2.93V	SC70-4	.78	.65	.52
ADM6713SAKS-REEL7	ADM6713SAKS-RL7TR-ND	Supervisor Open Drain 2.93V	SC70-4	1014.00/3,000		
ADM6713TAKS-REEL7	ADM6713TAKS-RL7CT-ND	Supervisor Open Drain 3.08V	SC70-4	.78	.65	.52
ADM6713TAKSZ-REEL7	ADM6713TAKSZ-REEL7CT-ND	Supervisor Open Drain 3.08V* ***NEW!***	SC70-4	.78	.65	.52
ADM6713TAKSZ-REEL7	ADM6713TAKSZ-REEL7TR-ND	Supervisor Open Drain 3.08V* ***NEW!***	SC70-4	1014.00/3,000		
ADM6713ZAKS-REEL7	ADM6713ZAKS-RL7CT-ND	Supervisor Open Drain 2.32V	SC70-4	.78	.65	.52
ADM6713ZAKS-REEL7	ADM6713ZAKS-RL7TR-ND	Supervisor Open Drain 2.32V	SC70-4	1014.00/3,000		
ADM8695ARW	ADM8695ARW-ND	Supervisor MPU 4.65V Adj.	16-SOIC	5.22	4.18	3.25
ADM9240ARU	ADM9240ARU-ND	MPU System Hardware Monitor	24-TSSOP	8.50	6.80	5.74

ANALOG DEVICES SWITCHES

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Analog				
AD7510DIKN	AD7510DIKN-ND	Switch Analog CMOS Quad Protection	16-Dip	11.56	10.41	9.24
AD7510DIKP	AD7510DIKP-ND	Switch Analog CMOS Quad Protection	20-PLCC	13.29	11.97	10.62
AD7511DIJN	AD7511DIJN-ND	Switch Analog CMOS Quad Protection	16-Dip	10.50	9.45	8.38
AD7511DIKN	AD7511DIKN-ND	Switch Analog CMOS Quad Protection	16-Dip	11.56	10.41	9.24
AD7512DIJN	AD7512DIJN-ND	Switch Analog CMOS Dual	14-Dip	10.50	9.45	8.38
AD7512DIKN	AD7512DIKN-ND	Switch Analog CMOS Dual	14-Dip	11.56	10.41	9.24
AD7512DIKNZ	AD7512DIKNZ-ND	Switch Analog CMOS Dual*	14-Dip	11.56	10.41	9.24
AD7512DIKQ	AD7512DIKQ-ND	Switch Analog CMOS Dual	16-CDip	22.41	20.92	19.43
AD7590DIKNZ	AD7590DIKNZ-ND	Switch Analog with Data Latches* ***NEW!***	16-Dip	11.45	10.31	9.14
ADG201ABQ	ADG201ABQ-ND	Switch Analog Quad SPST	16-CDip	5.56	4.45	3.76
ADG201AKN	ADG201AKN-ND	Switch Analog Quad SPST	16-Dip	3.22	2.58	2.01
ADG201AKNZ	ADG201AKNZ-ND	Switch Analog Quad SPST*	16-Dip	3.22	2.58	2.01
ADG201AKRZ	ADG201AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.22	2.58	2.01
ADG201HSJNZ	ADG201HSJNZ-ND	Switch Analog HS Quad SPST* ***NEW!***	16-Dip	5.34	4.28	3.61
ADG201HSKR	ADG201HSKR-ND	Switch Analog HS Quad SPST	16-SOIC	8.74	7.00	5.90
ADG201HSKRZ	ADG201HSKRZ-ND	Switch Analog HS Quad SPST*	16-SOIC	8.74	7.00	5.90
ADG202AKNZ	ADG202AKNZ-ND	Switch Analog Quad SPST* ***NEW!***	16-Dip	3.22	2.58	2.01
ADG202AKRZ	ADG202AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.22	2.58	2.01
ADG211AKN	ADG211AKN-ND	Switch Analog Quad SPST	16-Dip	2.95	2.36	1.84
ADG211AKNZ	ADG211AKNZ-ND	Switch Analog Quad SPST*	16-Dip	2.95	2.36	1.84
ADG211AKR	ADG211AKR-ND	Switch Analog Quad SPST	16-SOIC	2.95	2.36	1.84
ADG211AKRZ	ADG211AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	2.95	2.36	1.84
ADG212AKNZ	ADG212AKNZ-ND	Switch Analog Quad SPST*	16-Dip	2.95	2.36	1.84
ADG212AKRZ	ADG212AKRZ-ND	Switch Analog Quad SPST*	16-SOIC	2.95	2.36	1.84
ADG221KN	ADG221KN-ND	Switch Analog Quad SPST	16-Dip	3.38	2.70	2.10
ADG221KRZ	ADG221KRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.38	2.70	2.10
ADG222KN	ADG222KN-ND	Switch Analog Quad Latches SPST	16-Dip	3.38	2.70	2.10
ADG333ABNZ	ADG333ABNZ-ND	Switch Analog Quad SPDT* ***NEW!***	20-Dip	6.42	5.14	4.34
ADG333ABR	ADG333ABR-ND	Switch Analog Quad SPDT	20-SOIC	6.42	5.14	4.34
ADG333ABRZ	ADG333ABRZ-ND	Switch Analog Quad SPDT*	20-SOIC	6.42	5.14	4.34
ADG333ABRSZ	ADG333ABRSZ-ND	Switch Analog Quad SPDT*	20-SSOP	6.42	5.14	4.34
ADG411BN	ADG411BN-ND	Switch Analog Quad Precision SPST	16-Dip	3.87	3.10	2.41
ADG411BR	ADG411BR-ND	Switch Analog Quad Precision SPST	16-SOIC	3.87	3.10	2.41
ADG411BRZ	ADG411BRZ-ND	Switch Analog Quad Precision SPST* ***NEW!***	16-SOIC	3.87	3.10	2.41
ADG412BN	ADG412BN-ND	Switch Analog Quad Precision SPST	16-Dip	3.94	3.15	2.45
ADG412BNZ	ADG412BNZ-ND	Switch Analog Quad Precision SPST* ***NEW!***	16-Dip	3.94	3.15	2.45
ADG412BRZ	ADG412BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	3.87	3.10	2.41
ADG413BRZ	ADG413BRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.87	3.10	2.41
ADG417BRZ	ADG417BRZ-ND	Switch Analog Single*	8-SOIC	2.25	1.80	1.35
ADG419BNZ	ADG419BNZ-ND	Switch Analog Single Precision*	8-Dip	2.70	2.16	1.68
ADG419BR	ADG419BR-ND	Switch Analog Single Precision	8-SOIC	2.70	2.16	1.68
ADG419BRM	ADG419BRM-ND	Switch Analog Single Precision	8-MSOP	2.70	2.16	1.68
ADG419BRMZ	ADG419BRMZ-ND	Switch Analog Single Precision*	8-MSOP	2.70	2.16	1.68
ADG419BRZ	ADG419BRZ-ND	Switch Analog Single Precision*	8-SOIC	2.70	2.16	1.68
ADG431ABR	ADG431ABR-ND	Switch Analog Quad Precision SPST	16-SOIC	6.26	5.01	4.23
ADG431ABRZ	ADG431ABRZ-ND	Switch Analog Quad Precision SPST* ***NEW!***	16-SOIC	6.26	5.01	4.23
ADG431ABR-REEL7	ADG431ABR-REEL7CT-ND	Switch Analog Quad Precision SPST	16-SOIC	6.26	5.01	4.23
ADG431ABR-REEL7	ADG431ABR-REEL7TR-ND	Switch Analog Quad Precision SPST	16-SOIC	3913.00/1,000		
ADG431BR	ADG431BR-ND	Switch Analog Quad Precision SPST	16-SOIC	4.43	3.55	2.76
ADG431BRZ	ADG431BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	4.43	3.55	2.76
ADG432ABR	ADG432ABR-ND	Switch Analog Quad Precision SPST	16-SOIC	6.26	5.01	4.23
ADG432ABRZ	ADG432ABRZ-ND	Switch Analog Quad Precision SPST* ***NEW!***	16-SOIC	6.26	5.01	4.23
ADG432BN	ADG432BN-ND	Switch Analog Quad Precision SPST	16-Dip	4.43	3.55	2.76
ADG432BR	ADG432BR-ND	Switch Analog Quad Precision SPST	16-SOIC	4.43	3.55	2.76
ADG432BRZ	ADG432BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	4.43	3.55	2.76
ADG433ABRZ	ADG433ABRZ-ND	Switch Analog Quad Precision SPST* ***NEW!***	16-SOIC	6.26	5.01	4.23
ADG433BN	ADG433BN-ND	Switch Analog Quad Precision SPST	16-Dip	4.43	3.55	2.76
ADG433BRZ	ADG433BRZ-ND	Switch Analog Quad Precision SPST*	16-SOIC	4.43	3.55	2.76
ADG436BNZ	ADG436BNZ-ND	Switch Analog Dual SPDT*	16-Dip	5.44	4.36	3.68
ADG436BRZ	ADG436BRZ-ND	Switch Analog Dual SPDT*	16-SOIC	5.44	4.36	3.68
ADG441BN	ADG441BN-ND	Switch Analog Quad SPST	16-Dip	3.13	2.51	1.95
ADG441BNZ	ADG441BNZ-ND	Switch Analog Quad SPS T* ***NEW!***	16-Dip	3.13	2.51	1.95
ADG441BRZ	ADG441BRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.13	2.51	1.95
ADG442BN	ADG442BN-ND	Switch Analog Quad SPST	16-Dip	4.16	3.33	2.59
ADG442BR	ADG442BR-ND	Switch Analog Quad SPST	16-SOIC	3.13	2.51	1.95
ADG442BRZ	ADG442BRZ-ND	Switch Analog Quad SPST*	16-SOIC	3.13	2.51	1.95
ADG444BN	ADG444BN-ND	Switch Analog Quad SPST 5V	16-Dip	2.25	1.80	1.40
ADG444BRZ	ADG444BRZ-ND	Switch Analog Quad SPST 5V*	16-SOIC	2.25	1.80	1.40
ADG451BRZ	ADG451BRZ-ND	Switch Analog Quad 4-Ohm*	16-SOIC	5.00	4.00	3.38
ADG451BRUZ	ADG451BRUZ-ND	Switch Analog Quad 4-Ohm*	16-TSSOP	5.00	4.00	3.38
ADG452BN	ADG452BN-ND	Switch Analog Quad 4-Ohm	16-Dip	5.00	4.00	3.38
ADG452BNZ	ADG452BNZ-ND	Switch Analog Quad 4-Ohm* ***NEW!***	16-Dip	5.00	4.00	3.38
ADG452BR	ADG452BR-ND	Switch Analog Quad 4-Ohm	16-SOIC	5.00	4.00	3.38
ADG452BRZ	ADG452BRZ-ND	Switch Analog Quad 4-Ohm*	16-SOIC	5.00	4.00	3.38
ADG452BRUZ	ADG452BRUZ-ND	Switch Analog Quad 4-Ohm*	16-TSSOP	5.00	4.00	3.38
ADG453BRZ	ADG453BRZ-ND	Switch Analog Quad 4-Ohm*	16-SOIC	5.00	4.00	3.38
ADG453BRUZ	ADG453BRUZ-ND	Switch Analog Quad 4-Ohm*	16-TSSOP	5.00	4.00	3.38
ADG511ABR	ADG511ABR-ND	Switch L2CMOS Quad 5/3V	16-SOIC	5.49	4.40	3.42
ADG511BN	ADG511BN-ND	Switch L2CMOS Quad 5/3V	16-Dip	4.64	3.71	2.89
ADG511BR	ADG511BR-ND	Switch L2CMOS Quad 5/3V	16-SOIC	4.64	3.71	2.89
ADG511BRZ	ADG511BRZ-ND	Switch L2CMOS Quad 5/3V*	16-SOIC	4.64	3.71	2.89
ADG512BRZ	ADG512BRZ-ND	Switch L2CMOS Quad 5/3V*	16-SOIC	4.64	3.71	2.89
ADG513BRZ	ADG513BRZ-ND	Switch L2CMOS Quad 5/3V*	16-SOIC	4.64	3.71	2.89
ADG702BRJ-500RL7	ADG702BRJ500RL7CT-ND	Switch CMOS 2-Ohm SPST	SOT-23-5	1.65	1.32	.99
ADG702BRJ-500RL7	ADG702BRJ500RL7TR-ND	Switch CMOS 2-Ohm SPST	SOT-23-5	445.50/500		
ADG811YRU	ADG811YRU-ND	Switch CMOS Quad SPST	16-TSSOP	3.35	2.69	2.09
ADG812YRU	ADG812YRU-ND	Switch CMOS Quad SPST	16-TSSOP	3.35	2.69	2.09
ADG813YRU	ADG813YRU-ND	Switch CMOS Quad SPST	16-TSSOP	3.35	2.69	2.09
ADG849YKSZ-500RL7	ADG849YKSZ500RLCT-ND	3V/5V CMOS 0.5-Ohm SPDT/2:1 Mux Switch*	SC70-6	1.95	1.56	1.17
ADG849YKSZ-500RL7	ADG849YKSZ500RLTR-ND	3V/5V CMOS 0.5-Ohm SPDT/2:1 Mux Switch*	SC70-6	526.50/500		
ADG904BRUZ	ADG904BRUZ-ND	Wideband, CMOS 1.65V-2.75V, 4:1 Mux/SP4T* ***NEW!***	20-TSSOP	4.16	3.33	2.59
ADG936BRU-R	ADG936BRU-R-ND	1.65V-2.75V, SPDT Dual Switch	20-TSSOP	4.16	3.33	2.59

* ***RoHS Compliant***

(Continued)

ANALOG DEVICES

SWITCHES *(Continued)*

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SW06GP	SW06GP-ND	Switch Quad JFET Analog SPST	16-Dip	4.07	3.26	2.54
SW06GPZ	SW06GPZ-ND	Switch Quad JFET Analog SPST* ***NEW!***	16-Dip	4.07	3.26	2.54
SW06GS	SW06GS-ND	Switch Quad JFET Analog SPST	16-SOIC	3.80	3.05	2.37

Audio/Video

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
AD7592DIKN	AD7592DIKN-ND	Switch Analog with Data Latch	14-Dip	12.20	10.98	9.74
AD7592DIKNZ	AD7592DIKNZ-ND	Switch Analog with Data Latch*	14-Dip	12.20	10.98	9.74
AD8108AST	AD8108AST-ND	Video Switch 8x8 with Buffer	80-LQFP	32.64	30.47	28.29
AD8108ASTZ	AD8108ASTZ-ND	Video Switch 8x8 with Buffer*	80-LQFP	32.64	30.47	28.29
AD8109ASTZ	AD8109ASTZ-ND	Video Switch 8x8 with Buffer*	80-LQFP	28.07	26.20	24.33
AD8110AST	AD8110AST-ND	Video Switch 16x8 with Buffer	80-LQFP	57.36	53.54	49.72
AD8110ASTZ	AD8110ASTZ-ND	Video Switch 16x8 with Buffer*	80-LQFP	57.36	53.54	49.72
AD8111AST	AD8111AST-ND	Video Crosspoint Switch	80-LQFP	57.36	53.54	49.72
AD8111ASTZ	AD8111ASTZ-ND	Video Crosspoint Switch*	80-LQFP	57.36	53.54	49.72
AD8113JST	AD8113JST-ND	Audio/Video Switch 16x16 with Buffer	100-LQFP	44.91	41.92	38.93
AD8114AST	AD8114AST-ND	Video Crosspoint Switch 16x16	100-LQFP	117.44	109.61	101.78
AD8114ASTZ	AD8114ASTZ-ND	Video Crosspoint Switch 16x16*	100-LQFP	117.44	109.61	101.78
AD8115ASTZ	AD8115ASTZ-ND	Video Crosspoint Switch 16x16*	100-LQFP	117.44	109.61	101.78
AD8116JST	AD8116JST-ND	Video Switch 16x16 with Buffer	128-LQFP	139.41	130.12	120.83
AD8152JBP	AD8152JBP-ND	Async. Digital X-Point Switch	256-BGA	250.20	233.52	216.84
ADG836LYRM	ADG836LYRM-ND	0.5-Ohm CMOS 1.65V-3.6V Dual SPDT 2:1 Mux	10-MSOP	2.40	1.92	1.62
SSM2402S	SSM2402S-ND	Switch Dual Audio Analog	16-SOIC	6.68	5.35	4.51
SSM2404P	SSM2404P-ND	Switch Quad Audio Analog	20-Dip	6.54	5.24	4.42
SSM2404S	SSM2404S-ND	Switch Quad Audio Analog	20-SOIC	6.54	5.24	4.42
SSM2404SZ	SSM2404SZ-ND	Switch Quad Audio Analog*	20-SOIC	6.54	5.24	4.42

Bus

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
ADG3233BRJ-REEL7	ADG3233BRJREEL7CT-ND	Switch Logic Level Translation 1.65/3.6V Bypass	SOT-23-8	1.43	1.14	.86
ADG3233BRJ-REEL7	ADG3233BRJREEL7TR-ND	Switch Logic Level Translation 1.65/3.6V Bypass	SOT-23-8	2190.00/3,000		
ADG3233BRM	ADG3233BRM-ND	Switch 1.65/3.6V Bypass	8-MSOP	1.73	1.38	1.04
ADG3233BRM-REEL7	ADG3233BRMREEL7CT-ND	Switch 1.65/3.6V Bypass	8-MSOP	1.73	1.38	1.04
ADG3233BRM-REEL7	ADG3233BRMREEL7TR-ND	Switch 1.65/3.6V Bypass	8-MSOP	897.00/1,000		
ADG3242BRJ-R2	ADG3242BRJ-R2CT-ND	Switch Bus Controller 2.5/3.3V	SOT-23-8	1.70	1.36	1.02
ADG3242BRJ-R2	ADG3242BRJ-R2TR-ND	Switch Bus Controller 2.5/3.3V	SOT-23-8	238.00/250		
ADG3243BRJ-R2	ADG3243BRJ-R2CT-ND	Switch Bus Control 2.5/3.3V	SOT-23-8	1.70	1.36	1.02
ADG3243BRJ-R2	ADG3243BRJ-R2TR-ND	Switch Bus Control 2.5/3.3V	SOT-23-8	238.00/250		
ADG3245BRU	ADG3245BRU-ND	Switch Bus 2.5/3.3V, 8-Bit	20-TSSOP	2.18	1.74	1.31
ADG3246BRU	ADG3246BRU-ND	Switch Bus 2.5/3.3V, 10-Bit	24-TSSOP	2.25	1.80	1.35
ADG3247BCP	ADG3247BCP-ND	Switch Bus 2.5/3.3V, 16-Bit	40-LFCSP	2.68	2.15	1.67
ADG3247BRU	ADG3247BRU-ND	Switch Bus 2.5/3.3V, 16-Bit	38-TSSOP	3.24	2.60	2.02
ADG3248BKS-R2	ADG3248BKS-R2CT-ND	Mux/Demux Bus Switch 2:1	SC70-6	1.70	1.36	1.02
ADG3248BKS-R2	ADG3248BKS-R2TR-ND	Mux/Demux Bus Switch 2:2	SC70-6	238.00/250		
ADG3249BRJ-R2	ADG3249BRJ-R2CT-ND	Mux/Demux Bus Switch 2:3	SOT-23-8	1.70	1.36	1.02
ADG3249BRJ-R2	ADG3249BRJ-R2TR-ND	Mux/Demux Bus Switch 2:4	SOT-23-8	238.00/250		
ADG3257BRQZ	ADG3257BRQZ-ND	Mux/Demux Quad 3.3/5V HS*	16-QSOP	1.75	1.40	1.05

Crosspoint

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
AD8150AST	AD8150AST-ND	Digital Crosspoint Switch 33x17	184-LQFP	152.87	—	—
AD8150ASTZ	AD8150ASTZ-ND	Digital Crosspoint Switch 33x17*	184-LQFP	152.87	—	—
AD8152JBPZ	AD8152JBPZ-ND	Digital Crosspoint Switch 34x34*	256-BGA	250.20	—	—

NEW! General Purpose NEW!

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
ADG1211YCPZ-500RL7	ADG1211YCPZ-500RL7CT-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch*	16-LFCSP	5.48	4.39	3.70
ADG1211YCPZ-500RL7	ADG1211YCPZ-500RL7TR-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch*	16-LFCSP	1740.00/500		
ADG1211YRUZ	ADG1211YRUZ-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch*	16-TSSOP	5.48	4.39	3.70
ADG1212YCPZ-500RL7	ADG1212YCPZ-500RL7CT-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch*	16-LFCSP	5.48	4.39	3.70
ADG1212YCPZ-500RL7	ADG1212YCPZ-500RL7TR-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch*	16-LFCSP	1740.00/500		
ADG1212YRUZ	ADG1212YRUZ-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch*	16-TSSOP	5.48	4.39	3.70
ADG1213YCPZ-500RL7	ADG1213YCPZ-500RL7CT-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch*	16-LFCSP	5.48	4.39	3.70
ADG1213YCPZ-500RL7	ADG1213YCPZ-500RL7TR-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch*	16-LFCSP	1740.00/500		
ADG1213YRUZ	ADG1213YRUZ-ND	Low Capacitance, Low Charge Injection, iCMOS™ Quad SPST Switch*	16-TSSOP	5.48	4.39	3.70
ADG1233YRUZ	ADG1233YRUZ-ND	Low Capacitance, Triple SPDT iCMOS™ Switch	16-TSSOP	8.56	6.85	5.78
ADG1234YRUZ	ADG1234YRUZ-ND	Low Capacitance, Quad SPDT iCMOS™ Switch	20-TSSOP	8.56	6.85	5.78
ADG1236YCPZ-500RL7	ADG1236YCPZ-500RL7CT-ND	Low Capacitance, Low Charge Injection, iCMOS™ Dual SPDT Switch*	12-LFCSP	5.36	4.29	3.34
ADG1236YCPZ-500RL7	ADG1236YCPZ-500RL7TR-ND	Low Capacitance, Low Charge Injection, iCMOS™ Dual SPDT Switch*	12-LFCSP	1547.00/500		
ADG1236YRUZ	ADG1236YRUZ-ND	Low Capacitance, Low Charge Injection, iCMOS™ Dual SPDT Switch*	16-TSSOP	5.36	4.29	3.34

RF/Video

Analog Devices Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
ADG601BRT-REEL7	ADG601BRT-REEL7CT-ND	Switch Tiny 2-Ohm SPST	SOT-23-6	2.23	1.78	1.34
ADG601BRTZ-REEL7	ADG601BRTZ-REEL7CT-ND	Switch Tiny 2-Ohm SPST*	SOT-23-6	2.23	1.78	1.34
ADG601BRTZ-REEL7	ADG601BRTZ-REEL7TR-ND	Switch Tiny 2-Ohm SPST*	SOT-23-6	3417.00/3,000		
ADG611YRU	ADG611YRU-ND	Switch Quad 3/5V SPST	16-TSSOP	3.83	3.06	2.38
ADG612YRUZ	ADG612YRUZ-ND	Switch Quad 3/5V SPST* ***NEW!***	16-TSSOP	3.83	3.06	2.38
ADG613YRU	ADG613YRU-ND	Switch Quad 3/5V SPST	16-TSSOP	3.83	3.06	2.38
ADG613YRUZ	ADG613YRUZ-ND	Switch Quad 3/5V SPST*	16-TSSOP	3.83	3.06	2.38
ADG619BRM	ADG619BRM-ND	Switch 2.7/5.5V SPDT BBM	8-MSOP	2.48	1.98	1.54
ADG619BRMZ	ADG619BRMZ-ND	Switch 2.7/5.5V SPDT BBM*	8-MSOP	2.48	1.98	1.54
ADG633YRU	ADG633YRU-ND	Tri-Switch 3/5V SPDT	16-TSSOP	2.25	1.80	1.40
ADG636YRU	ADG636YRU-ND	Switch Dual 3/5V SPDT	14-TSSOP	4.10	3.28	2.55
ADG636YRUZ	ADG636YRUZ-ND	Switch Dual 3/5V SPDT* ***NEW!***	14-TSSOP	4.10	3.28	2.55
ADG711BR	ADG711BR-ND	Switch Quad SPST 1.8/5.5V	16-SOIC	2.48	1.98	1.54
ADG711BRUZ	ADG711BRUZ-ND	Switch Quad SPST 1.8/5.5V*	16-TSSOP	2.48	1.98	1.54
ADG712BRZ	ADG712BRZ-ND	Switch Quad SPST 1.8/5.5V*	16-SOIC	2.48	1.98	1.54
ADG712BRUZ	ADG712BRUZ-ND	Switch Quad SPST 1.8/5.5V*	16-TSSOP	2.48	1.98	1.54
ADG713BRU	ADG713BRU-ND	Switch Quad SPST 1.8/5.5V	16-TSSOP	2.48	1.98	1.54
ADG713BRUZ	ADG713BRUZ-ND	Switch Quad SPST 1.8/5.5V*	16-TSSOP	2.48	1.98	1.54
ADG714BRUZ	ADG714BRUZ-ND	Switch Octal Serial 2.7/5.5V*	24-TSSOP	4.82	3.86	3.00
ADG715BRUZ	ADG715BRUZ-ND	Switch Octal Serial 2.7/5.5V*	24-TSSOP	4.82	3.86	3.00
ADG719BRM	ADG719BRM-ND	Switch Single SPDT 1.8/5.5V	8-MSOP	1.93	1.54	1.16
ADG719BRMZ	ADG719BRMZ-ND	Switch Single SPDT 1.8/5.5V*	8-MSOP	1.93	1.54	1.16
ADG719BRTZ-REEL7	ADG719BRTZ-REEL7CT-ND	Switch SPDT 1.8/5.5V*	SOT-23-6	1.75	1.40	1.05
ADG719BRTZ-REEL7	ADG719BRTZ-REEL7TR-ND	Switch SPDT 1.8/5.5V*	SOT-23-6	2688.00/3,000		
ADG721BRM	ADG721BRM-ND	Switch Dual SPST 1.8/5.5V	8-MSOP	1.93	1.54	1.16
ADG721BRMZ	ADG721BRMZ-ND	Switch Dual SPST 1.8/5.5V*	8-MSOP	1.93	1.54	1.16
ADG723BRM	ADG723BRM-ND	Switch Dual SPST 1.8/5.5V	8-MSOP	1.93	1.54	1.16
ADG723BRMZ	ADG723BRMZ-ND	Switch Dual SPST 1.8/5.5V*	8-MSOP	1.93	1.54	1.16
ADG734BRUZ	ADG734BRUZ-ND	Switch Quad 1.8/5.5V SPDT	20-TSSOP	3.71	2.97	2.31
ADG734BRU-REEL7	ADG734BRU-REEL7CT-ND	Switch Quad 1.8/5.5V SPDT	20-TSSOP	3.71	2.97	2.31
ADG734BRU-REEL7	ADG734BRU-REEL7TR-ND	Switch Quad 1.8/5.5V SPDT	20-TSSOP	2104.00/1,000		
ADG734BRUZ-REEL7	ADG734BRUZ-REEL7TR-ND	Switch Quad 1.8/5.5V SPDT* ***NEW!***	20-TSSOP	2104.00/1,000		
ADG736BRMZ	ADG736BRMZ-ND	Switch Dual SPDT 1.8/5.5V*	10-MSOP	2.30	1.84	1.43
ADG736BRM-REEL7	ADG736BRM-REEL7CT-ND	Switch Dual SPDT 1.8/5.5V	10-MSOP	2.30	1.84	1.43
ADG736BRM-REEL7	ADG736BRM-REEL7TR-ND	Switch Dual SPDT 1.8/5.5V	10-MSOP	1301.00/1,000		
ADG736BRMZ-REEL7	ADG736BRMZ-REEL7TR-ND	Switch Dual SPDT 1.8/5.5V* ***NEW!***	10-MSOP	1301.00/1,000		
ADG779BKS-REEL7	ADG779BKS-REEL7CT-ND	Switch SPDT 1.8/5.5V	SC70-6	1.60	1.28	.96
ADG779BKSZ-REEL7	ADG779BKSZ-REEL7CT-ND	Switch SPDT 1.8/5.5V*	SC70-6	1.60	1.28	.96
ADG779BKSZ-REEL7	ADG779BKSZ-REEL7TR-ND	Switch SPDT 1.8/5.5V*	SC70-6	2457.00/3,000		
ADG788BCP	ADG788BCP-ND	Switch Quad 1.8/5.5V SPDT	20-LFCSP	3.71	2.97	2.31
ADG801BRM	ADG801BRM-ND	Switch Single SPST 1.8/5.5V	8-MSOP	2.41	1.93	1.50
ADG801BRMZ	ADG801BRMZ-ND	Switch Single SPST 1.8/5.5V* ***NEW!***	8-MSOP	2.41	1.93	1.50
ADG802BRMZ	ADG802BRMZ-ND	Switch Single SPST 1.8/5.5V*	8-MSOP	2.41	1.93	1.50
ADG819BRMZ	ADG819BRMZ-ND	Switch Fast SPDT 1.8/5.5V* ***NEW!***	8-MSOP	2.54	2.04	1.59
ADG820BRM	ADG820BRM-ND	Switch Fast SPST 1.8/5.5V	8-MSOP	2.54	2.04	1.59
ADG821BRMZ	ADG821BRMZ-ND	Switch Dual SPST 1.8/5.5V*	8-MSOP	2.70	2.16	1.68
ADG822BRM	ADG822BRM-ND	Switch Dual SPST 1.8/5.5V	8-MSOP	2.70	2.16	1.68
ADG823BRM	ADG823BRM-ND	Switch Dual SPST 1.8/5.5V	8-MSOP	2.70	2.16	1.68
ADG836YRMZ	ADG836YRMZ-ND	Switch Dual SPDT 1.6/3.6V*	10-MSOP	2.70	2.16	1.68
ADG901BRM	ADG901BRM-ND	Switch Single HS SPST 1.6/2.7V	8-MSOP	2.81	2.25	1.75
ADG902BRM	ADG902BRM-ND	Switch Single HS SPST 1.6/2.7V	8-MSOP	2.81	2.25	1.75
ADG918BRMZ	ADG918BRMZ-ND	Switch Single HS SPDT 1.6/2.7V*	8-MSOP	2.93	2.34	1.82
ADG919BRM	ADG919BRM-ND	Switch Single HS SPDT 1.6/2.7V	8-MSOP	2.93	2.34	1.82

****RoHS Compliant***

freescale™ semiconductor

ADVANCED CLOCK GENERATORS

Buffers

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC100ES6011D-ND	2.5V/3.3V ECL 1:2 Differential Fanout Buffer	8-SOIC	7.69	5.49	4.99
MC100ES6111AC-ND	Low Voltage Differential Fanout Buffer	32-LQFP	10.53	7.97	7.35
MC100ES6111FA-ND	Low Voltage Differential Fanout Buffer	32-LQFP	10.53	7.97	7.35
MC100ES6210AC-ND	Low Voltage Differential Fanout Buffer	32-LQFP	10.53	7.97	7.35
MC100ES6210FA-ND	Low Voltage Differential Fanout Buffer	32-LQFP	10.53	7.97	7.35
MC100ES6220TB-ND	Low Voltage Dual 1:10 Differential Fanout Buffer	52-LQFP	13.14	9.94	9.16
MC100ES6222TB-ND	Low Voltage 1:15 Differential Fanout Buffer	52-LQFP	11.13	8.42	7.76
MC100ES6226AC-ND	Low Voltage 1:9 Differential Clock Driver	32-LQFP	10.78	8.16	7.52
MC100ES6226FA-ND	Low Voltage 1:9 Differential Clock Driver	32-LQFP	10.78	8.16	7.52
MC100ES6254FA-ND	Low Voltage Differential Clock Buffer	32-LQFP	11.30	8.55	7.88
MC100ES6535DT-ND	3.3V LVCMOS to LVPECL 1:4 Fanout Buffer	20-TSSOP	13.16	9.95	9.18
MC100ES8111FA-ND	Low Voltage 1:10 Differential HSTL Clock Fanout Buffer	32-LQFP	13.39	10.13	9.34
MPC961PFA-ND	Low Voltage Zero Delay Buffer	32-LQFP	10.40	7.10	6.76
MPC9443AE-ND	1:16 LVCMOS Clock Fanout Buffer	48-LQFP	8.98	6.13	5.83
MPC9448FAR2CT-ND	1:12 LVCMOS Clock Fanout Buffer	32-LQFP	6.43	4.60	4.18
MPC9449AE-ND	1:15 PECL/LVCMOS Clock Fanout Buffer	52-LQFP	8.28	5.92	5.38
MPC9456AC-ND	1:10 LVCMOS Clock Distribution Buffer	32-LQFP	8.26	5.90	5.37
MPC9456FA-ND	1:10 LVCMOS Clock Distribution Buffer	32-LQFP	8.26	5.90	5.37
MPC9608AC-ND	1:10 LVCMOS Zero Delay Clock Buffer	32-LQFP	6.43	4.60	4.18
MPC9608FA-ND	1:10 LVCMOS Zero Delay Clock Buffer	32-LQFP	6.43	4.60	4.18
MPC962305D-1-ND	Low-Cost 3.3V Zero Delay Buffer	8-SOIC	1.76	1.08	.93
MPC962308D-1-ND	3.3V Zero Delay Buffer	16-SOIC	3.23	2.07	1.87
MPC962308D-1H-ND	3.3V Zero Delay Buffer	16-SOIC	2.13	1.37	1.24
MPC962309D-1-ND	Low-Cost 3.3V Zero Delay Buffer	16-SOIC	2.80	1.71	1.48
MPC962309D-1H-ND	Low-Cost 3.3V Zero Delay Buffer	16-SOIC	2.50	1.61	1.45
MPC962309DT-1H-ND	Low-Cost 3.3V Zero Delay Buffer	16-TSSOP	2.50	1.61	1.45

Clock Generators

Digi-Key Part No.	Description	Pkg.	1	25	100
MC100ES60T22D-ND	3.3V Dual LVTTL/LVCMOS to Differential LVPECL Translator	8-SOIC	5.33	3.23	3.09
MC100ES6039DW-ND	3.3V ECL/PECL/HSTL/LVDS Clock Generation Chip	20-SOIC	12.41	9.39	8.66
MC100ES6056DT-ND	2.5V/3.3V ECL/PECL/LVDS Dual Differential 2:1 Mux	20-TSSOP	11.15	8.43	7.77
MC100ES6130DT-ND	2.5V/3.3V, 1:4 PECL Clock Driver with 2:1 Input Mux	16-TSSOP	12.77	9.66	8.91
MC100ES6139DT-ND	3.3V ECL/PECL/HSTL/LVDS Clock Generation Chip	20-TSSOP	13.06	9.88	9.11
MC88LV915TEI-ND	Tri-State, 100MHz, Low Voltage PLL Clock Driver	28-PLCC	8.70	5.94	5.65
MC88LV915TFN-ND	Tri-State, 100MHz, Low Voltage PLL Clock Driver	28-PLCC	8.70	5.94	5.65
MC88LV926DWR2CT-ND	Low Skew CMOS PLL 68060 Clock Driver	20-SOIC	9.07	6.19	5.89
MC88LV926DWR2TR-ND	Low Skew CMOS PLL 68060 Clock Driver	20-SOIC	5363.00/1,000		
MC14489BDWR2CT-ND	Multi-Character LED Display/Lamp Driver	20-SOG	4.50	2.89	2.61
MC14489BDWR2TR-ND	Multi-Character LED Display/Lamp Driver	20-SOG	2336.00/1,000		
MC88915TFN55-ND	Tri-State, 55MHz, Low Skew PLL Clock Driver	28-PLCC	8.43	6.22	5.80
MC88915TFN133R2CT-ND	Tri-State, 133MHz, Low Skew PLL Clock Driver	28-PLCC	9.40	6.42	6.11
MC88915TFN133R2TR-ND	Tri-State, 133MHz, Low Skew PLL Clock Driver	28-PLCC	2875.00/500		
MC88915TFN160-ND	Tri-State, 160MHz, Low Skew PLL Clock Driver	28-PLCC	9.68	6.61	6.29
MC88916DW80-ND	80MHz, Low Skew PLL Clock Driver with Reset	20-SOIC	13.21	10.00	9.22
MPC93H52FA-ND	3.3V, 1:11 LVCMOS Zero Delay Clock Generator	32-LQFP	5.86	4.19	3.81
MPC93R51AC-ND	3.3V Low Voltage PLL Clock Generator	32-LQFP	6.67	4.77	4.33
MPC93R51FA-ND	3.3V Low Voltage PLL Clock Generator	32-LQFP	6.67	4.77	4.33
MPC93R52FA-ND	3.3V, 1:11 LVCMOS Zero Delay Clock Generator	32-LQFP	6.67	4.77	4.33
MPC97H73FA-ND	3.3V, 1:12 LVCMOS PLL Clock Generator	52-LQFP	7.86	5.61	5.10
MPC97H74FA-ND	3.3V, 1:14 LVCMOS PLL Clock Generator	52-LQFP	7.86	5.61	5.10
MPC99J93FA-ND	Intelligent Dynamic Clock Switch (IDCS) PLL Clock Driver	32-LQFP	6.67	4.77	4.33
MPC905DR2CT-ND	1:6 PCI Clock Generator/Fanout Buffer	16-SOIC	3.70	2.38	2.15
MPC941AE-ND	Low Voltage 1:27 Clock Distribution Chip	48-LQFP	11.64	8.81	8.12
MPC942CFA-ND	Low Voltage 1:18 Clock Distribution Chip	32-TQFP	6.92	4.95	4.50
MPC942PAC-ND	Low Voltage 1:18 Clock Distribution Chip	32-LQFP	8.17	5.84	5.31
MPC942PFA-ND	Low Volatge 1:18 Clock Distribution Chip	32-LQFP	8.17	5.84	5.31

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ADVANCED CLOCK GENERATORS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MPC9229AC-ND	400MHz Low Voltage Clock Synthesizer	32-LQFP	8.53	5.83	5.54
MPC9230AC-ND	800MHz Low Voltage Clock Synthesizer	32-LQFP	8.98	6.13	5.83
MPC9239FA-ND	900MHz Low Voltage Clock Synthesizer	32-LQFP	9.28	6.33	6.03
MPC9239FN-ND	900MHz Low Voltage Clock Synthesizer	28-PLCC	9.28	6.33	6.03
MPC9315AC-ND	Low Voltage CMOS PLL Clock Generator/Driver	32-LQFP	8.07	5.77	5.24
MPC9315FA-ND	Low Voltage CMOS PLL Clock Generator/Driver	32-LQFP	8.07	5.77	5.24
MPC9330AC-ND	1:6 Low Voltage PLL Clock Synthesizer	32-LQFP	10.38	7.09	6.74
MPC9330FA-ND	1:6 Low Voltage PLL Clock Synthesizer	32-LQFP	10.38	7.09	6.74
MPC9331FA-ND	3.3V, 1:6 LVCMOS PLL Clock Generator	32-LQFP	10.38	7.09	6.74
MPC9331FAR2CT-ND	3.3V, 1:6 LVCMOS PLL Clock Generator	32-LQFP	10.38	7.09	6.74
MPC9350AC-ND	Low Voltage CMOS PLL Clock Generator	32-LQFP	7.62	5.45	4.95
MPC9350FA-ND	Low Voltage CMOS PLL Clock Generator	32-LQFP	7.62	5.45	4.95
MPC9351AC-ND	2.5V/3.3V, CMOS PLL CLock Generator	32-LQFP	6.67	4.77	4.33
MPC9352AC-ND	Low Voltage CMOS 1:11 Clock Driver	32-LQFP	6.67	4.77	4.33
MPC9352FA-ND	Low Voltage CMOS 1:11 Clock Driver	32-LQFP	6.67	4.77	4.33
MPC9600FA-ND	Low Voltage CMOS PLL Clock Driver	48-LQFP	7.90	5.64	5.13
MPC9653AAC-ND	1:8 Low Voltage CMOS PLL Clock Generator	32-LQFP	6.09	4.36	3.96
MPC9653AFA-ND	1:8 Low Voltage CMOS PLL Clock Generator	32-LQFP	6.09	4.36	3.96
MPC9653AFAR2CT-ND	1:8 Low Voltage CMOS PLL Clock Generator	32-LQFP	6.09	4.36	3.96
MPC9653AFAR2TR-ND	1:8 Low Voltage CMOS PLL Clock Generator	32-LQFP	7042.00/2,000		
MPC9653FA-ND	1:8 Low Voltage CMOS PLL Clock Generator	32-LQFP	6.09	4.36	3.96
MPC9658AC-ND	3.3V, 1:10 Low Voltage CMOS PLL Clock Generator	32-LQFP	8.00	5.72	5.20
MPC9658FA-ND	3.3V, 1:10 Low Voltage CMOS PLL Clock Generator	32-LQFP	8.00	5.72	5.20
MPC9772AE-ND	3.3V, 1:12 Low Voltage CMOS PLL Clock Generator	52-LQFP	7.86	5.61	5.10
MPC9774FA-ND	3.3V, 1:14 Low Voltage CMOS PLL Clock Generator	52-LQFP	7.86	5.61	5.10
MPC9893AE-ND	Low Voltage PLL Intelligent Dynamic Clock Switch	48-LQFP	15.32	11.59	10.68
MPC9992AC-ND	3.3V Differential ECL/PECL PLL Clock Generator	32-LQFP	15.70	11.88	10.95
MPC9992FA-ND	3.3V Differential ECL/PECL PLL Clock Generator	32-LQFP	15.70	11.88	10.95
MPC9993FA-ND	Intelligent Dynamic Clock Switch PLL Clock Driver	32-LQFP	14.59	11.04	10.18
MPC926508SD-ND	Networking Clock Source	20-SSOP	4.35	2.79	2.52

ANALOG

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC3PHACVDW-ND	High Performance Mono Intelligent Motor Controller	28-SOIC	10.51	7.17	6.83
MC3PHACVDWE-ND	High Perf. Mono Intelligent Motor Controller ***NEW!***	28-SOIC	10.51	7.17	6.83
MC3PHACVPE-ND	High Perf. Mono Intelligent Motor Controller ***NEW!***	28-Dip	10.51	7.17	6.83
MC13820FCR2CT-ND	Low Noise Amp with Bypass Switch ***NEW!***	12-QFN	1.30	.80	.69
MC13820FCR2TR-ND	Low Noise Amp with Bypass Switch ***NEW!***	12-QFN	1460.25/2,500		
MC33129EFR2CT-ND	High Performance Current Mode Controller ***NEW!***	14-SOIC	2.57	1.57	1.35
MC33129EFR2TR-ND	High Performance Current Mode Controller ***NEW!***	14-SOIC	2888.05/2,500		
MC33143DW-ND	Dual High Side Switch for Inductive Loads	24-SOIC	5.39	3.86	3.51
MC33186DH1-ND	20KHz Automotive H-Bridge Driver	20-HSOP	5.73	4.10	3.73
MC33215BE-ND	Telephone Line Interface/Speakerphone Circuit ***NEW!***	42-SDip	6.50	4.64	4.22
MC33285D-ND	40V Dual High Side TMOS Driver	8-SOIC	2.40	1.46	1.26
MC33287DW-ND	Contact Monitoring and Dual Low Side Switch	20-SOIC	2.86	1.74	1.51
MC33287DWR2CT-ND	Contact Monitoring and Dual Low Side Switch	20-SOIC	2.86	1.74	1.51
MC33287DWR2TR-ND	Contact Monitoring and Dual Low Side Switch	20-SOIC	1322.00/1,000		
MC33289DW-ND	Dual High Side Switch for Inductive Loads	20-SOIC	4.53	2.91	2.63
MC33289DWR2CT-ND	Dual High Side Switch for Inductive Loads	20-SOIC	4.53	2.91	2.63
MC33289DWR2TR-ND	Dual High Side Switch for Inductive Loads	20-SOIC	2349.00/1,000		
MC33290D-ND	ISO K Line Serial Link Interface	8-SOIC	1.66	.87	.79
MC33290DR2CT-ND	ISO K Line Serial Link Interface	8-SOIC	1.04	.87	.79
MC33290DR2TR-ND	ISO K Line Serial Link Interface	8-SOIC	1590.00/2,500		
MC33291DW-ND	1.2Ω RDS (on) Smart 8-Output Switch with SPI	24-SOIC	4.83	3.10	2.80
MC33291DWR2CT-ND	1.2Ω RDS (on) Smart 8-Output Switch with SPI	24-SOIC	4.83	3.10	2.80
MC33291DWR2TR-ND	1.2Ω RDS (on) Smart 8-Output Switch with SPI	24-SOIC	2505.00/1,000		
MC33291LDW-ND	1.4Ω RDS (on) Smart 8-Output Switch with SPI	24-SOIC	3.88	2.49	2.25
MC33298DW-ND	Octal Serial Switch with 8-Bit SPI I/O	24-SOIC	5.49	3.88	3.58
MC33298DWCT-ND	Octal Serial Switch with 8-Bit SPI I/O	24-SOP	5.64	3.92	3.61
MC33298DWTR-ND	Octal Serial Switch with 8-Bit SPI I/O	24-SOP	3260.00/1,000		
MC33298P-ND	Octal Serial Switch with 8-Bit SPI I/O	20-Dip	5.63	3.99	3.69
MC33389CDH-ND	System Base Chip with Low Speed Fault Tolerant CAN	20-HSOP	9.53	6.51	6.19
MC33389CDW-ND	System Base Chip with CAN	28-SOIC	8.26	5.90	5.37
MC33389CDWR2CT-ND	System Base Chip with CAN	28-SOIC	8.26	5.90	5.37
MC33389CDWR2TR-ND	System Base Chip with CAN	28-SOIC	4886.00/1,000		
MC33389DDWR2CT-ND	System Base Chip with CAN	28-SOIC	7.58	5.42	4.92
MC33389DDWR2TR-ND	System Base Chip with CAN	28-SOIC	4484.00/1,000		
MC33390DR2CT-ND	Class-B Serial Transceiver	8-SOIC	2.50	1.61	1.45
MC33390DR2TR-ND	Class-B Serial Transceiver	8-SOIC	3140.00/2,500		
MC33399D-ND	Local Interconnect Network Physical Interface (LIN)	8-SOIC	1.53	.94	.81
MC33399DR2CT-ND	Local Interconnect Network Physical Interface (LIN)	8-SOIC	1.53	.94	.81
MC33399DR2TR-ND	Local Interconnect Network Physical Interface (LIN)	8-SOIC	1720.00/2,500		
MC33486ADH-ND	Dual High Side Switch for H-Bridge Auto Applications	20-HSOP	7.43	5.31	4.83
MC33486ADHR2CT-ND	Dual High Side Switch for H-Bridge Auto Applications	20-HSOP	7.43	5.31	4.83
MC33486ADHR2TR-ND	Dual High Side Switch for H-Bridge Auto Applications	20-HSOP	3297.00/750		
MC33790DW-ND	2-Ch. DSI Physical Interface for Bus Master	16-SOIC	4.80	3.08	2.79
MC33793D-ND	DSI Slave for Remote Sensing	16-SOIC	3.78	2.43	2.19
MC33793DR2CT-ND	DSI Slave for Remote Sensing	16-SOIC	3.78	2.43	2.19
MC33793DR2TR-ND	DSI Slave for Remote Sensing	16-SOIC	4742.50/2,500		
MC33794DH-ND	E-Field Sensor for MCU Support	44-HSOP	7.56	5.40	4.91
MC33880DWB-ND	8-Output Hardware Configurable High-Side/Low-Side Switch with SPI	32-SOIC	5.43	3.29	3.15
MC33882DH-ND	6-Output Low Side Switch	30-HSOP	8.19	5.86	5.32
MC33883DW-ND	Full Bridge Pre-Driver for Power Application	20-SOIC	3.63	2.33	2.10
MC33883DWR2CT-ND	Full Bridge Pre-Driver for Power Application	20-SOIC	3.63	2.33	2.10
MC33883DWR2TR-ND	Full Bridge Pre-Driver for Power Application	20-SOIC	1882.00/1,000		
MC33884DW-ND	SDI Monitoring Switch	24-SOIC	3.68	2.36	2.13
MC33886VW-ND	5.2A Output H-Bridge ***NEW!***	20-HSOP	6.26	4.48	4.07
MC33887DH-ND	5.2A Integrated H-Bridge with Sleep Mode	20-HSOP	6.77	4.84	4.40
MC33887DWB-ND	5.2A Integrated H-Bridge with Sleep Mode	54-SOIC	5.05	3.07	2.93
MC33888FB-ND	Quad High Side and Octal Low Side Switch	64-QFP	11.47	8.68	8.00
MC33889DW-ND	System Base Chip Lite with Low Speed CAN	28-SOIC	5.80	4.14	3.77
MC33897AEF-ND	Single-Wire CAN Transceiver ***NEW!***	14-SOIC	2.80	1.56	1.48
MC33897EF-ND	Single-Wire CAN Transceiver ***NEW!***	14-SOIC	2.80	1.56	1.48
MC33897EFR2CT-ND	Single-Wire CAN Transceiver ***NEW!***	14-SOIC	2.80	1.71	1.48
MC33897EFR2TR-ND	Single-Wire CAN Transceiver ***NEW!***	14-SOIC	3147.65/2,500		
MC33972DWBR2CT-ND	Multiple Switch Detection Interface with Suppressed Wake-Up	32-SOIC	4.80	3.08	2.79
MC33972DWBR2TR-ND	Multiple Switch Detection Interface with Suppressed Wake-Up	32-SOIC	2492.00/1,000		
MC33989DW-ND	System Base Chip with High Speed CAN	28-SOIC	6.20	3.76	3.60
MC33989DWR2CT-ND	System Base Chip with High Speed CAN	28-SOIC	4.75	3.05	2.76
MC33989DWR2TR-ND	System Base Chip with High Speed CAN	28-SOIC	3219.00/1,000		
MC33990D-ND	J1850 Serial Transceiver	8-SOIC	2.63	1.69	1.53
MC33990DR2CT-ND	J1850 Serial Transceiver	8-SOIC	2.63	1.69	1.53
MC33990DR2TR-ND	J1850 Serial Transceiver	8-SOIC	3297.50/2,500		
MC33993DWB-ND	22-Switch Multiple Detection Interface	32-SOIC	4.78	3.07	2.77
MC33997DW-ND	Switching Power Supply with Linear Regulator	24-SOIC	6.13	3.72	3.55
MC34119DTBR2CT-ND	Low Power Audio Amp	8-TSSOP	1.59	.97	.84
MC34119DTBR2TR-ND	Low Power Audio Amp	8-TSSOP	1785.00/2,500		
MC34119P-ND	Low Power Audio Amp	8-Dip	1.53	.80	.73
MC34129DR2CT-ND	High Performance Current Mode Controller	14-SOIC	3.90	2.51	2.26
MC34129DR2TR-ND	High Performance Current Mode Controller	14-SOIC	4898.40/2,500		
MC34129EF-ND	High Performance Current Mode Controller ***NEW!***	14-SOIC	3.90	2.37	2.15
MPC17511AEPR2CT-ND	1.0A, 6.8V H-Bridge Motor Driver	24-QFN	1.99	1.22	1.05
MPC17511AEPR2TR-ND	1.0A, 6.8V H-Bridge Motor Driver	24-QFN	2240.00/2,500		
MPC17529EVELCT-ND	0.7A Dual H-Bridge Motor Driver with 3V/5V Compatible Logic I/O	20-MFP	2.48	1.52	1.31
MPC17529EVELTR-ND	0.7A Dual H-Bridge Motor Driver with 3V/5V Compatible Logic I/O	20-MFP	2232.00/2,000		
MPC17531AEVELCT-ND	2-Channel H-Bridge Motor Driver	20-MFP	2.74	1.67	1.45
MPC17531AEVELTR-ND	2-Channel H-Bridge Motor Driver	20-MFP	2466.00/2,000		
MPC17550EVELCT-ND	Quad H-Bridge Micromotor Driver with DC/DC Boost Converter	36-MFP	5.60	3.40	3.25
MPC17550EVELTR-ND	Quad H-Bridge Micromotor Driver with DC/DC Boost Converter	36-MFP	5626.00/2,000		
MW4IC2230GNBR1CT-ND	2110-2170MHz, 30W, 28V RF LDMOS Wideband Integrated Power Amp ***NEW!***	TO-272	45.94	38.27	36.00
MW4IC2230GNBR1TR-ND	2110-2170MHz, 30W, 28V RF LDMOS Wideband Integrated Power Amp ***NEW!***	TO-272	17424.00/500		
MW4IC2230NBR1CT-ND	2110-2170MHz, 30W, 28V RF LDMOS Wideband Integrated Power Amp ***NEW!***	TO-272	45.94	38.27	36.00
MW4IC2230NBR1TR-ND	2110-2170MHz, 30W, 28V RF LDMOS Wideband Integrated Power Amp ***NEW!***	TO-272	17424.00/500		
MWIC930GNR1CT-ND	746-960MHz, 30W, 26-28V, RF LDMOS Wideband Integrated Power Amp ***NEW!***	TO-272	39.64	30.12	29.29
MWIC930GNR1TR-ND	746-960MHz, 30W, 26-28V, RF LDMOS Wideband Integrated Power Amp ***NEW!***	TO-272	13284.00/500		
MWIC930NR1CT-ND	746-960MHz, 30W, 26-28V, RF LDMOS Wideband Integrated Power Amp ***NEW!***	TO-272	39.64	30.12	29.29
MWIC930NR1TR-ND	746-960MHz, 30W, 26-28V, RF LDMOS Wideband Integrated Power Amp ***NEW!***	TO-272	13284.00/500		
	D/A Converters				
KIT33291DWEVB-ND	Evaluation Kit for MC33291	—	79.80	—	—
KIT33298DWEVB-ND	Evaluation Kit for MC33298	—	79.80	—	—
KIT33794DWBEVM-ND	Evaluation Kit for MC33794	—	79.80	—	—
KIT33880DWBEVB-ND	Evaluation Kit for MC33880	—	106.40	—	—
KIT33883DWEVB-ND	Evaluation Kit for MC33883	—	86.45	—	—
KIT33886DHEVB-ND	Evaluation Kit for MC33886	—	59.85	—	—
KIT33993DWBEVB-ND	Evaluation Kit for MC33993	—	126.35	—	—

DISPLAY DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC14489BDW-ND	5-Channel LED Display/25 Lamp Driver	20-SOG	4.04	2.76	2.53
MC14489BP-ND	5-Channel LED Display/25 Lamp Driver	20-Dip	4.04	2.76	2.53

MATH COPROCESSORS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC68882FN25A-ND	M68000 Family Math CoProcessor	68-PLCC	55.82	46.49	43.74

MICROPROCESSORS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC68MH360ZP25L-ND	32-Bit QUICC™ Microprocessor	357-PBGA	67.94	55.01	53.23
MC812A4CPVE8-ND	16-Bit Microprocessor ***NEW!***	112-LQFP	18.94	14.86	14.00
MPC184VMB-ND	Security Processor ***NEW!***	252-MAPBGA	27.88	21.87	20.60
MPC190VMB-ND	Security Processor ***NEW!***	252-MAPBGA	58.14	48.43	45.56

INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC44BC375UAEF-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC ***NEW!***	16-SOIC	2.25	1.38	1.19
MC44BC375UAEFR2CT-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC ***NEW!***	16-SOIC	2.25	1.38	1.19
MC44BC375UAEFR2TR-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC ***NEW!***	16-SOIC	2531.10/2,500		
MC44BC375UEF-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC ***NEW!***	16-SOIC	2.25	1.38	1.19
MC44BC375UEFR2CT-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC ***NEW!***	16-SOIC	2.25	1.38	1.19
MC44BC375UEFR2TR-ND	PLL Tuned VHF Audio/Video High Integration Modulator IC ***NEW!***	16-SOIC	2531.10/2,500		
MC44BS373CAEF-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator ***NEW!***	16-SOIC	3.80	2.44	2.21
MC44BS373CAEFR2CT-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator ***NEW!***	16-SOIC	3.80	2.44	2.21
MC44BS373CAEFR2TR-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator ***NEW!***	16-SOIC	4932.40/2,500		

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freescale semiconductor — INTERFACE *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC44BS374CAEF-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator **NEW!**	16-SOIC	3.20	2.06	1.86
MC44BS374CAEFR2CT-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator **NEW!**	16-SOIC	3.20	2.06	1.86
MC44BS374CAEFR2TR-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator **NEW!**	16-SOIC	4153.60/2,500		
MC44BS374T1AEF-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator **NEW!**	16-SOIC	3.63	2.33	2.10
MC44BS374T1AEFR2CT-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator **NEW!**	16-SOIC	3.63	2.33	2.10
MC44BS374T1AEFR2TR-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator **NEW!**	16-SOIC	4553.00/2,500		
MC44BS374T1EF-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator **NEW!**	16-SOIC	3.63	2.33	2.10
MC44BS374T1EFR2CT-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator **NEW!**	16-SOIC	3.63	2.33	2.10
MC44BS374T1EFR2TR-ND	PLL Tuned UHF and VHF Audio/Video High Integration Modulator **NEW!**	16-SOIC	4553.00/2,500		
MC33199DCT-ND	ISO9141 Serial Ink Driver	14-SOIC	2.54	1.55	1.34
MC33199DTR-ND	ISO9141 Serial Ink Driver	14-SOIC	2855.60/2,500		
MC92600JUB-ND	Quad 1.25Gbaud SerDes Transceiver	217-PBGA	41.95	34.94	32.87
MC92603VM-ND	Quad, Gigabit Ethernet SerDes Transceiver **NEW!**	256-MAPBGA	41.74	34.77	32.71
MC92604VM-ND	Dual, Gigabit Ethernet 1000BASE-X PHY **NEW!**	196-MAPBGA	32.98	25.87	24.37

freescale semiconductor — RF/IF PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Encoders / Decoders					
MC145026D-ND	Serial Data Output 9-Line Trinary Encoder	16-SOIC	2.19	1.39	1.25
Frequency Conversion					
MC13770FCCT-ND	RF LNA Down Converter	12-QFN	5.75	3.49	3.34
MC13770FCTR-ND	RF LNA Down Converter	12-QFN	5463.60/2,500		
Receivers/Transmitters					
MC33493DTB-ND	PLL Tuned UHF Transmitter, 315-434MHz and 868-928MHz	14-TSSOP	2.60	1.59	1.37
MC33493DTBR2CT-ND	PLL Tuned UHF Transmitter, 315-434MHz and 868-928MHz	14-TSSOP	2.60	1.59	1.37
MC33493DTBR2TR-ND	PLL Tuned UHF Transmitter, 315-434MHz and 868-928MHz	14-TSSOP	3212.50/2,500		
MC33493MOD315-ND	Evaluation Board for MC33493 Transmitter, 315MHz	—	68.06	—	—
MC33493MOD434-ND	Evaluation Board for MC33493 Transmitter, 434MHz	—	68.06	—	—
MC33591FTA-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4.73	2.87	2.74
MC33591FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4.98	3.02	2.89
MC33591FTAR2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4998.00/2,000		
MC33591MOD315-ND	Evaluation Board for MC33591 Receiver, 315MHz	—	68.06	—	—
MC33591MOD434-ND	Evaluation Board for MC33591 Receiver, 434MHz	—	68.06	—	—
MC33592FTA-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4.73	2.87	2.74
MC33592FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4.98	3.02	2.89
MC33592FTAR2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	4998.00/2,000		
MC33594FTA-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	5.75	3.49	3.34
MC33594FTAR2CT-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	6.00	3.64	3.48
MC33594FTAR2TR-ND	PLL Tuned UHF Receiver, 315, 434MHz	24-LQFP	6028.00/2,000		

freescale semiconductor — SMOKE DETECTION

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC14467P1-ND	Ionization Smoke Detector	16-Dip	1.47	.90	.78
MC145010DW-ND	Photoelectric Smoke Detector IC with I/O	16-SOIC	2.53	1.62	1.47
MC145012DW-ND	Photoelectric Smoke Detector IC with I/O	16-SOIC	2.58	1.66	1.50
MC145012P-ND	Photoelectric Smoke Detector IC with I/O	16-Dip	2.55	1.64	1.48

freescale semiconductor — TELECOMMUNICATIONS

Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
MC145423DT-ND	Universal Digital Loop Transceiver	28-TSSOP	6.18	4.42	4.01
MC145481DT-ND	3V PCM Codec-Filter	20-TSSOP	3.45	2.22	2.00
MC145481DW-ND	3V PCM Codec-Filter	20-SOG	3.30	2.12	1.92
MC145481SD-ND	3V PCM Codec-Filter	20-SSOP	3.73	2.39	2.16
MC145481SDR2CT-ND	3V PCM Codec-Filter	20-SSOP	3.85	2.47	2.23
MC145481SDR2TR-ND	3V PCM Codec-Filter	20-SSOP	2998.50/1,500		
MC145483DT-ND	3V, 13-Bit Linear PCM Codec-Filter	20-TSSOP	3.73	2.39	2.16
MC145483DW-ND	3V, 13-Bit Linear PCM Codec-Filter	20-SOIC	3.38	2.17	1.96
MC145483DWR2CT-ND	3V, 13-Bit Linear PCM Codec-Filter	20-SOIC	3.38	2.17	1.96
MC145483DWR2TR-ND	3V, 13-Bit Linear PCM Codec-Filter	20-SOIC	1817.00/1,000		
MC145483FC-ND	3V, 13-Bit Linear PCM Codec-Filter	32-QFN	3.58	2.30	2.08
MC145483SDR2CT-ND	3V, 13-Bit Linear PCM Codec-Filter	20-SSOP	3.85	2.47	2.23
MC145483SDR2TR-ND	3V, 13-Bit Linear PCM Codec-Filter	20-SSOP	2998.50/1,500		
MC145484DT-ND	5V PCM Codec-Filter	20-TSSOP	3.38	2.17	1.96
MC145484DW-ND	5V PCM Codec-Filter	20-SOG	2.95	1.90	1.71
MC145484SDCT-ND	5V PCM Codec-Filter	20-SSOP	3.50	2.25	2.03
MC145484SDTR-ND	5V PCM Codec-Filter	20-SSOP	2725.80/1,500		
MC145572AFN-ND	Universal Interface ISDN Transceiver	44-PLCC	21.38	17.01	16.06
MC145572APB-ND	ISDN Interface Transceiver	44-TQFP	17.71	13.90	13.10
MC145574ADWR2CT-ND	S/T Interface ISDN Transceiver	28-SOIC	6.41	4.58	4.17
MC145574ADWR2TR-ND	S/T Interface ISDN Transceiver	28-SOIC	3793.00/1,000		
MC145574APB-ND	S/T Interface ISDN Transceiver	32-TQFP	5.58	3.39	3.23
MC14LC5480DT-ND	5V PCM Codec-Filter	20-TSSOP	3.45	2.22	2.00
MC14LC5480DW-ND	5V PCM Codec-Filter	20-SOG	2.95	1.90	1.71
MC14LC5480DWCT-ND	5V PCM Codec-Filter	20-SOG	3.58	2.30	2.08
MC14LC5480DWTR-ND	5V PCM Codec-Filter	20-SOG	1596.54/1,000		
MC14LC5480SDCT-ND	5V PCM Codec-Filter	20-SSOP	3.58	2.30	2.08
MC14LC5480SDTR-ND	5V PCM Codec-Filter	20-SSOP	2784.21/1,500		
MC33390D-ND	Class B Serial Link Transceiver	8-SOIC	2.50	1.61	1.45
MC34018P-ND	Voice Switched Speakerphone Circuit	28-Dip	2.75	1.77	1.60
MC34118DW-ND	Voice Switch Speakerphone	28-SOIC	2.88	1.85	1.67
MC34118DW3CT-ND	Voice Switch Speakerphone	28-SOIC	2.88	1.85	1.67
MC34118DW3TR-ND	Voice Switch Speakerphone	28-SOIC	1493.00/1,000		

intel — EMBEDDED INTEL ARCHITECTURE MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
KU80C186EC20	802933-ND	20MHz, 16-Bit, Enhanced 80C186 MPU, 5V	100-QFP	21.15	16.65	12.60
KU80C186EC25	802951-ND	25MHz, 16-Bit, Enhanced 80C186 MPU, 5V	100-QFP	21.15	16.65	12.60
QU80C186EC25	863807-ND	25MHz, 16-Bit, Enhanced 80C186 MPU, 5V* **NEW!**	100-QFP	21.15	16.65	12.60
TN80C186EB20	802875-ND	20MHz, 16-Bit, Enhanced 80C186 MPU, 5V	84-PLCC	16.22	12.77	9.66
EN80C186EB20	864045-ND	20MHz, 16-Bit, Enhanced 80C186 MPU, 5V* **NEW!**	84-PLCC	16.22	12.77	9.66
N80C186EA25	802825-ND	25MHz, 16-Bit, 80C186EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
TN80C186EA13	802768-ND	13MHz, 16-Bit, 80C186EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
S80C186EB25	802897-ND	25MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-MQFP	18.21	14.34	10.85
YW80C186EB20	864152-ND	20MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temp.* **NEW!**	80-SQFP	11.87	9.35	7.07
YW80C186EB25	864165-ND	25MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temp.* **NEW!**	80-SQFP	11.87	9.35	7.07
TN80C186EB13	802851-ND	13MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	84-PLCC	16.22	12.77	9.66
EN80C186EB13	864170-ND	13MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temp.* **NEW!**	84-PLCC	16.22	12.77	9.66
TS80C186EB13	802853-ND	13MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-MQFP	17.27	13.60	10.29
TS80C186EB20	802885-ND	20MHz, 16-Bit, 80C186EB MPU, 5V, Extended Temperature	80-MQFP	17.27	13.60	10.29
A80C186ECI	802919-ND	25MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	132-CPGA	62.32	49.20	42.64
SB80C186EC13	808819-ND	13MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C186EC20	802939-ND	20MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C186EC25	802965-ND	25MHz, 16-Bit, 80C186EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
A80C186XL12	803000-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PGA	40.53	32.04	26.06
A80C186XL25	803250-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PGA	44.10	34.86	28.35
EE80C186XL12	863496-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V* **NEW!**	68-PLCC	9.35	7.48	4.93
EE80C186XL20	863545-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V* **NEW!**	68-PLCC	9.35	7.48	4.93
N80C186XL25	803256-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-PLCC	9.35	7.48	4.93
EE80C188XL12	864111-ND	12MHz, 16-Bit, 80C188XL Microprocessor, 5V* **NEW!**	68-PLCC	9.08	7.26	4.79
EE80C188XL20	863554-ND	20MHz, 16-Bit, 80C188XL Microprocessor, 5V* **NEW!**	68-PLCC	9.08	7.26	4.79
R80C186XL20	803196-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-LCC	33.08	26.15	21.27
R80C186XL25	803262-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	68-LCC	33.08	26.15	21.27
S80C186XL20	803199-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-MQFP	13.06	10.45	6.89
S80C186XL25	803269-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-MQFP	13.06	10.45	6.89
SB80C186XL12	808823-ND	12MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-SQFP	11.87	9.35	7.07
SB80C186XL20	808824-ND	20MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-SQFP	11.87	9.35	7.07
SB80C186XL25	808825-ND	25MHz, 16-Bit, 80C186XL Microprocessor, 5V	80-SQFP	11.87	9.35	7.07
TA80C186XL20	803206-ND	20MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-PGA	44.10	34.86	28.35
TN80C186XL12	803077-ND	12MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-PLCC	9.35	7.48	4.93
TR80C186XL12	803091-ND	12MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-LCC	35.28	27.89	22.68
TR80C186XL20	803233-ND	20MHz, 16-Bit, 80C186XL MPU, 5V, Extended Temperature	68-LCC	35.28	27.89	22.68
TN80L186EA13	806072-ND	13MHz, 16-Bit, 80L186EA Enhanced MPU, 3V, Extended Temp.	68-PLCC	14.81	11.66	8.82
N80L186EB16	806093-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	84-PLCC	16.22	12.77	9.66
S80L186EB16	806099-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-MQFP	18.21	14.34	10.85
SB80L186EB13	808880-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-SQFP	11.87	9.35	7.07
YW80L186EB13	864163-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.* **NEW!**	80-SQFP	11.87	9.35	7.07
SB80L186EB16	806105-ND	16MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-SQFP	11.87	9.35	7.07
TS80L186EB13	806087-ND	13MHz, 16-Bit, 80L186EB Enhanced MPU, 3V, Extended Temp.	80-MQFP	17.27	13.60	10.29
KU80L186EC13	806111-ND	13MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-QFP	21.15	16.65	12.60
S80L186EC16	808881-ND	16MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-MQFP	20.70	16.30	12.34

* ***RoHS Compliant***

(Continued)

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EMBEDDED INTEL ARCHITECTURE MICROPROCESSORS *(Continued)*

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
SB80L186EC13	809626-ND	13MHz, 16-Bit, 80L186EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	21.00	16.60	13.50
EN80C188EB13	864081-ND	13MHz, 16-Bit, 80C188 Enhanced MPU, 5V, Extended Temp.* ***NEW!***	84-PLCC	16.22	12.77	9.66
TS80C188EB20	803586-ND	20MHz, 16-Bit, 80C188 Enhanced MPU, 5V, Extended Temp.	80-QFP	17.27	13.60	10.29
TN80C188EA13	803477-ND	13MHz, 16-Bit, 80C188EA MPU, 5V, Extended Temperature	68-PLCC	14.81	11.66	8.82
S80C188EB25	803598-ND	25MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	80-MQFP	17.27	13.60	10.29
EG80C188EB25	864094-ND	25MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temp.* ***NEW!***	80-MQFP	18.21	14.34	10.85
SB80C188EB25	803604-ND	25MHz, 16-Bit, 80C188EB MPU, 5V, Extended Temperature	80-SQFP	17.27	13.60	10.29
S80C188EC25	803664-ND	25MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-MQFP	20.70	16.30	12.34
SB80C188EC13	803618-ND	13MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
SB80C188EC20	803644-ND	20MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
YW80C188EC20	864139-ND	20MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temp.* ***NEW!***	100-SQFP	21.00	16.60	13.50
SB80C188EC25	808828-ND	25MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-SQFP	21.00	16.60	13.50
TS80C188EC13	803632-ND	13MHz, 16-Bit, 80C188EC MPU, 5V, Extended Temperature	100-QFP	20.70	16.30	12.34
A80C188XL25	803884-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	68-PGA	42.00	33.20	27.00
R80C188XL25	803902-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	68-LCC	30.98	24.49	19.92
S80C188XL12	803759-ND	12MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	11.69	9.35	6.17
S80C188XL20	803850-ND	20MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	11.69	9.35	6.17
S80C188XL25	808831-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	80-MQFP	11.69	9.35	6.17
SB80C188XL12	803769-ND	12MHz, 16-Bit, 80C188XL MPU, 5V	80-SQFP	13.04	10.27	7.77
SB80C188XL20	803856-ND	20MHz, 16-Bit, 80C188XL MPU, 5V	80-SQFP	13.04	10.27	7.77
YW80C188XL20	864149-ND	20MHz, 16-Bit, 80C188XL MPU, 5V* ***NEW!***	80-SQFP	13.04	10.27	7.77
SB80C188XL25	803908-ND	25MHz, 16-Bit, 80C188XL MPU, 5V	80-SQFP	13.04	10.27	7.77
TA80C188XL20	803862-ND	20MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-PGA	42.00	33.20	27.00
TR80C188XL20	803873-ND	20MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	68-LCC	33.08	26.15	21.27
TS80C188XL20	803878-ND	20MHz, 16-Bit, 80C188XL MPU, 5V, Extended Temperature	80-MQFP	11.69	9.35	6.17
TN80L188EA13	806131-ND	13MHz, 16-Bit, 80L188EA Enhanced MPU, 3V, Extended Temp.	68-PLCC	14.81	11.66	8.82
N80L188EB16	806163-ND	16MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	84-PLCC	16.22	12.77	9.66
TS80L188EB13	806156-ND	13MHz, 16-Bit, 80L188EB Enhanced MPU, 3V, Extended Temp.	80-MQFP	17.27	13.60	10.29
KU80L188EC13	806192-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-QFP	17.16	13.51	10.22
SB80L188EC13	806197-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	21.00	16.60	13.50
SB80L188EC16	809627-ND	16MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-SQFP	21.00	16.60	13.50
TS80L188EC13	808882-ND	13MHz, 16-Bit, 80L188EC Enhanced MPU, 3V, Extended Temp.	100-MQFP	20.70	16.30	12.34
NG88CO196EC40	859794-ND	40MHz, 16-Bit MCU with 256Kb on Chip Flash Memory	132-QFP	23.10	18.26	14.85
TG88CO196EC40	859797-ND	40MHz, 16-Bit MCU with 256Kb on Chip Flash Memory Ext. Temp.	132-QFP	24.26	19.18	15.60
A80386DX16	807050-ND	16MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	52.50	41.50	33.75
A80386DX20	807066-ND	20MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	52.50	41.50	33.75
A80386DX25	807094-ND	25MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	52.50	41.50	33.75
A80386DX33	807129-ND	33MHz, 32-Bit, 386DX Processor, 5.0V	132-PGA	52.50	41.50	33.75
NG80386DX20	807082-ND	20MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
NG80386DX25	807111-ND	25MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
NG80386DX33	807141-ND	33MHz, 32-Bit, 386DX Processor, 5.0V	132-QFP	13.87	10.92	8.26
A80386EXI	807153-ND	33MHz, 32-Bit, 386EX Processor, 5.0V	168-CPGA	68.40	54.00	46.80
FA80386EXTB25	807257-ND	25MHz, 32-Bit, 386EX Integrated Processor, 3.3V, Ext. Temp.	144-TQFP	26.25	20.75	16.88
FA80386EXTC33	807274-ND	33MHz, 32-Bit, 386EX Integrated Processor, 5.0V, Ext. Temp.	144-TQFP	22.05	17.43	14.18
KU80386EXTB25	807262-ND	25MHz, 386EX Integrated Processor, 3.3V	132-QFP	24.15	19.09	15.53
QU80386EXTC25	863826-ND	25MHz, 386EX Integrated Processor, 5.0V* ***NEW!***	132-QFP	21.53	17.02	13.84
QU80386EXTC33	863827-ND	33MHz, 386EX Integrated Processor, 5.0V* ***NEW!***	132-QFP	21.53	17.02	13.84
KU80386SXTA25	800169-ND	25MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
KU80386SXTA33	800175-ND	33MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
KU80386SXTA40	800183-ND	40MHz, 32-Bit, 386SX Processor, 5.0V, Extended Temperature	100-QFP	15.04	11.84	8.96
NG80386SX25	800310-ND	25MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
NT80386SX25	863659-ND	25MHz, 32-Bit, 386SX Processor, 5.0V* ***NEW!***	100-QFP	12.22	9.62	7.28
NG80386SX33	800353-ND	33MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
NG80386SXLP20	800112-ND	20MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	15.28	12.03	9.10
NG80386SXLP25	800134-ND	25MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
NG80386SXLP33	800149-ND	33MHz, 32-Bit, 386SX Processor, 5.0V	100-QFP	12.22	9.62	7.28
A80486DX2SA50SX912	800940-ND	50MHz, 32-Bit, 486DX2 MPU, 5.0V	168-PGA	54.15	42.75	37.05
SB80486DX2SC50SX920	800952-ND	50MHz, 32-Bit, 486DX2 MPU, 3.3V	208-SQFP	38.05	30.08	24.47
A80486DX4WB100SK096	801069-ND	100MHz, 32-Bit, 486DX4 MPU, 3.3V	168-PGA	72.20	57.00	49.40
A80486DX4WB100SK101	808894-ND	100MHz, 32-Bit, 486DX4 MPU, 3.3V	168-PGA	72.20	57.00	49.40
FC80486DX4WB100SL2M9	816435-ND	100MHz, 32-Bit, 486DX4 MPU, 3.3V	208-SQFP	42.15	33.32	27.10
FA80486GXSF33	801241-ND	33MHz, 32-Bit 486GX MPU, 3.3V	176-TQFP	33.08	26.15	21.27
A80486SXSA25SX930	801266-ND	25MHz, 32-Bit, 486SX MPU, 5.0V	168-PGA	62.23	49.13	42.58
A80486SXSA33SX931	801301-ND	33MHz, 32-Bit, 486SX MPU, 5.0V	168-PGA	66.50	52.50	45.50
KU80486SXSA25SX934	801281-ND	25MHz, 32-Bit, 486SX MPU, 5.0V	196-QFP	50.35	39.75	34.45
KU80486SXSA33SX935	801318-ND	33MHz, 32-Bit, 486SX MPU, 5.0V	196-QFP	50.35	39.75	34.45
FV80524RX300128SL36A	820704-ND	300MHz, Celeron, 66MHz Bus, 128K L2 Cache, 2.0V	370-PGA	87.40	69.00	59.80
KC80524KX366128SL3C7	822451-ND	366MHz, LP Celeron, 66MHz Bus, 128K L2 Cache, 1.6V	615-BGA	108.90	95.70	84.15
KC80526LL300128SL5LG	835679-ND	300MHz, LP Celeron, 100MHz Bus, 128K L2 Cache, 1.1V	495-BGA	82.50	72.50	63.75
KC80526LY400128SL4J8	830981-ND	400MHz, LP Celeron, 100MHz Bus, 128K L2 Cache, 1.3V	495-BGA	91.20	72.00	62.40
KC80526LY400128SL544	833480-ND	400MHz, Celeron, 100MHz Bus, 128K L2 Cache, 1.35V	495-BGA	85.50	67.50	58.50
RB80526RX733128SL52Y	833440-ND	733MHz, Celeron, 66MHz Bus, 128K L2 Cache, 1.7V	370-FC-PGA	66.50	52.50	45.50
RB80526RY850128SL54Q	833470-ND	850MHz, Celeron, 100MHz Bus, 128K L2 Cache, 1.75V	370-PGA	66.50	52.50	45.50
RK80532RC041128SL6VR	852181-ND	2GHz Celeron Proc.	478-FC-PGA2	99.00	87.00	76.50
RK80532RC060128SL72B	854328-ND	2.5GHz Celeron Proc.	478-FC-PGA2	123.75	108.75	95.63
A8050266100SL2TU	818463-ND	100MHz, Pentium I, 66MHz, 3.3V	296-CPGA	66.54	52.53	45.53
FV80503CSM66166SL2ZX	819416-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.9V	296-PGA	81.70	64.50	55.90
FV80503CSM66266SL2Z4	819033-ND	266MHz, Pentium I with MMX, 66MHz Bus, 1.9V	296-PGA	84.15	73.95	65.03
GC80503CS166EXTSL3B8	822631-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.8V, Low Power	352-BGA	74.10	58.50	50.70
GC80503CSM66166SL388	821225-ND	166MHz, Pentium I with MMX, 66MHz Bus, 1.9V	352-BGA	79.80	63.00	54.60
KC80526LY400256SL546	833482-ND	400MHz, LP Pentium III, 100MHz Bus, 256K L2 Cache, 1.35V	495-BGA	123.75	108.75	95.63
RB80526PY600256S L5BT	834318-ND	600MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	123.75	108.75	95.63
RB80526PY700256S L4ZM	833747-ND	700MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	123.75	108.75	95.63
RB80526PY850256S L4Z2	833400-ND	850MHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	123.75	108.75	95.63
RB80526PZ001256SL52R	833416-ND	1.0GHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-PGA	132.00	116.00	102.00
RB80526PY001256S L5QV	836655-ND	1.0GHz, Pentium III, 100MHz Bus, 256K L2 Cache, 1.75V	370-FC-PGA	106.40	100.00	96.00
RJ80530KZ933512S L69K	849162-ND	933MHz, Pentium III, 133MHz Bus, 512K L2 Cache, 1.15V	470-uFC-BGA	269.99	253.75	243.60
RH80532GC029512SL6V6	852229-ND	1.7GHz, Pentium 4	478-MFC-PGA	220.78	207.50	199.20
RK80532PE056512S L6PC	850158-ND	2.4GHz, Pentium 4, 400MHz Bus, 512K L2 Cache, 1.5V	478-uFC-BGA	184.87	173.75	166.80
RK80532PE056512SL79B	857396-ND	2.4GHz, Pentium 4, Front Side Bus, 533MHz	478-FC-PGA2	184.87	173.75	166.80
RK80532PC064512SL6PP	850365-ND	2.6GHz, Pentium 4, Front Side Bus, 400MHz	478-FC-PGA2	184.87	173.75	166.80
RJ80535LC0051MSL6NC	851287-ND	1.1GHz, Pentium M	478-MFC-PGA	337.82	317.50	304.80
RH80532GC029512S L6FG	848089-ND	1.7GHz, Pentium 4 Mobile, 400MHz Bus, 512K L2 Cache, 1.3V	478-uFC-BGA	220.78	207.50	199.20
RK80532EC025512SL6XK	852509-ND	1.6GHz, Xeon LV	604-FC-mPGA-2P	266.00	250.00	240.00
RK80532EC041512SL6XL	852510-ND	2GHz, Xeon LV	604-FC-mPGA-2P	272.65	256.25	246.00
RK80532EE056512SL74T	854517-ND	2.4GHz, Xeon LV	604-FC-mPGA-2P	285.95	268.75	258.00
RK80532KE056512S L6GD	848396-ND	2.4GHz, Xeon, 533MHz Bus, 512K L2 Cache 1.5V	604-FC-mPGA-2P	258.02	242.50	232.80
RK80532KE056512SL73L	854163-ND	2.4GHz, Xeon	604-FC-mPGA-2P	258.02	242.50	232.80
RK80532KE072512SL73N	854168-ND	2.8GHz, Xeon	604-FC-mPGA-2P	329.84	310.00	297.60
FW82443BXSL2VH	818428CT-ND	82443BX Controller	492-PBGA	25.94	20.51	16.68
FW82443BXSL2VH	818428TR-ND	82443BX Controller	492-PBGA	5148.00/360		

PROCESSOR MODULE

Intel Part No.	Digi-Key Part No.	Description	Price Each ★ 1	10	100
LPM25P2F266A	833449-ND	Pentium II, 266MHz, Low Power Module	320.53	301.25	289.20

STRONG ARM® PROCESSOR

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
21281DB	821351-ND	166MHz, Strong Arm SA-110 Microprocessor	144-TQFP	30.98	24.49	19.92

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NETWORK PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
GCIXP1200EA	829314-ND	2V, 166MHz, Network Processor	432-BGA	192.32	180.75	173.52
GCIXP1200EB	829764-ND	2V, 200MHz, Network Processor	432-BGA	251.90	236.75	227.28
GCIXP1200FB	833954-ND	2V, 200MHz, Network Processor	432-BGA	251.90	236.75	227.28
GCIXP1200FC	833956-ND	2V, 232MHz, Network Processor	432-BGA	338.09	317.75	305.04
GCIXP1200GA	839427-ND	2V, 166MHz, Network Processor	432-BGA	192.32	180.75	173.52
GCIXP1200GB	839428-ND	2V, 200MHz, Network Processor	432-BGA	251.90	236.75	227.28
GCIXP1200GC	839429-ND	2V, 232MHz, Network Processor	432-BGA	338.09	317.75	305.04
GCIXP1240AA	837150-ND	2V, 166MHz, Network Processor with CRC Support	432-BGA	258.55	243.00	233.28
GCIXP1240AB	837151-ND	2V, 200MHz, Network Processor with CRC Support	432-BGA	318.27	299.13	287.16
GCIXP1240AC	837152-ND	2V, 232MHz, Network Processor with CRC Support	432-BGA	404.45	380.13	364.92
GCIXP1250BA	837411-ND	2V, 166MHz, Network Processor with CRC and ECC Support	520-BGA	271.85	255.50	245.28
GCIXP1250BB	837412-ND	2V, 200MHz, Network Processor with CRC and ECC Support	520-BGA	331.44	311.50	299.04
GCIXP1250BC	837414-ND	2V, 232MHz, Network Processor with CRC and ECC Support	520-BGA	417.62	392.50	376.80

I/O PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
GC80303 S L57T	833962-ND	100MHz, 3.3V, I/O Processor, 64-Bit PCI-PCI Bridge	540-BGA	126.06	110.78	97.41
GC80960RM100SL3YZ	827794-ND	100MHz, 3.3V, I/O Processor, 32-Bit PCI-PCI Bridge	540-BGA	102.00	89.64	78.83

MCS® 51 MICROCONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
LN80C31BH1SF88	809475-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	5.00	4.00	2.38
LP80C31BH1SF88	809476-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	5.00	4.00	2.38
N80C31BH24SF88	809494-ND	5V, 24MHz, 8-Bit MPU	44-PLCC	3.60	2.88	1.71
P80C31BH1SF88	809484-ND	5V, 16MHz, 8-Bit MPU	40-Dip	3.60	2.88	1.71
P80C31BH24SF88	809495-ND	5V, 24MHz, 8-Bit MPU	40-Dip	3.60	2.88	1.71
S80C31BH1SF88	809486-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	3.60	2.88	1.71
S80C31BH24SF88	811520-ND	5V, 24MHz, 8-Bit MPU	44-QFP	3.60	2.88	1.71
TN80C31BH1SF88	810026-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	4.20	3.36	2.00
TP80C31BH1SF88	809488-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	4.20	3.36	2.00
TS80C31BH1SF88	809489-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-QFP	4.20	3.36	2.00
N80C321SF88	809512-ND	5V, 16MHz, 8-Bit MPU	44-PLCC	4.40	3.52	2.09
N80C3224SF88	809521-ND	5V, 24MHz, 8-Bit MPU	44-PLCC	4.40	3.52	2.09
P80C321SF88	809515-ND	5V, 16MHz, 8-Bit MPU	40-Dip	4.40	3.52	2.09
S80C321SF88	809516-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	4.40	3.52	2.09
S80C3224SF88	810024-ND	5V, 24MHz, 8-Bit MPU	44-MQFP	4.40	3.52	2.09
TN80C321SF88	809517-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	5.00	4.00	2.38
TN80C3224SF88	809524-ND	5V, 24MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	5.00	4.00	2.38
TP80C321SF88	809518-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	5.00	4.00	2.38
TS80C321SF88	809519-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-MQFP	5.00	4.00	2.38
LN80C51FA1SF88	811045-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	44-PLCC	7.60	6.08	3.61
LP80C51FA1SF88	810037-ND	5V, 16MHz, 8-Bit MPU, Ext. Temp.	40-Dip	7.60	6.08	3.61
N80C51FA1SF88	809568-ND	5V, 16MHz, 8-Bit MPU	44-PLCC	6.20	4.96	2.95
N80C51FA24SF88	809581-ND	5V, 24MHz, 8-Bit MPU	44-PLCC	6.20	4.96	2.95
N80C51FA33SF88	810981-ND	5V, 33MHz, 8-Bit MPU	44-PLCC	6.84	5.48	3.25
N80C51RA1	804496-ND	5V, 16MHz, 8-Bit MPU	44-PLCC	9.20	7.36	4.37
N80C51RA24	804579-ND	5V, 24MHz, 8-Bit MPU	44-PLCC	6.33	5.06	3.34
N87C511SF76	810977-ND	5V, 16MHz, 8-Bit, 4K OTP EPROM	44-PLCC	4.95	3.96	2.61
N87C51FA1SF76	810760-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM	44-PLCC	7.70	6.16	4.06
N87C51FA24SF76	810758-ND	5V, 24MHz, 8-Bit, 8K OTP EPROM	44-PLCC	7.70	6.16	4.06
EE87C51FC1 S F76	864435-ND	5V, 16MHz, 8-Bit, 32K OTP EPROM* ***NEW!***	44-PLCC	9.35	7.48	4.93
N87C51RB1	807251-ND	5V, 16MHz, 8-Bit, 16K OTP EPROM	44-PLCC	7.99	6.29	4.76
EE87C51RB1	864637-ND	5V, 16MHz, 8-Bit, 16K OTP EPROM* ***NEW!***	44-PLCC	9.35	7.48	4.93
N87C51RC1	800186-ND	5V, 16MHz, 8-Bit, 32K OTP EPROM	44-PLCC	8.93	7.03	5.32
P80C51FA1SF88	810046-ND	5V, 16MHz, 8-Bit MPU	40-Dip	6.20	4.96	2.95
P80C51RA1	804514-ND	5V, 16MHz, 8-Bit MPU	40-Dip	9.20	7.36	4.37
P80C51RA24	804586-ND	5V, 24MHz, 8-Bit MPU	40-Dip	6.33	5.06	3.34
S80C51FA1SF88	809572-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	6.20	4.96	2.95
S80C51RA1	804523-ND	5V, 16MHz, 8-Bit MPU	44-MQFP	9.20	7.36	4.37
S80C51RA24	804592-ND	5V, 24MHz, 8-Bit MPU	44-MQFP	6.33	5.06	3.34
TN80C51FA1SF88	809574-ND	5V, 16MHz, 8-Bit MPU, Extended Temperature	44-PLCC	6.80	5.44	3.23
TN80C51FA24SF88	809583-ND	5V, 24MHz, 8-Bit MPU, Extended Temperature	44-PLCC	6.80	5.44	3.23
TS80C51FA1SF88	810998-ND	5V, 16MHz, 8-Bit MPU, Extended Temperature	44-MQFP	6.80	5.44	3.23
TS80C51RA1	804534-ND	5V, 16MHz, 8-Bit MPU Extended Temperature	44-MQFP	6.74	5.39	3.56
TS80C51RA24	804603-ND	5V, 24MHz, 8-Bit MPU Extended Temperature	44-MQFP	6.74	5.39	3.56
TS87C51FA1SF76	811518-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM MCU, Extended Temp.	44-QFP	8.11	6.49	4.28
AN87C51FA20F8	821038-ND	5V, 20MHz, 8-Bit, 8K OTP MCU, Automotive	44-PLCC	13.84	10.90	8.25
QX87C51FC20	863910-ND	5V, 20MHz, 8-Bit, 32K OTP MCU, Automotive* ***NEW!***	44-PLCC	21.02	16.62	13.52
D87C51FC20SF76	811050-ND	5V, 20MHz, 8-Bit, 32K UV EPROM MCU	40-CDip	38.85	30.71	24.98
LN87C511SF76	823401-ND	5V, 16MHz, 8-Bit, 4K OTP MCU, Extended Temperature	44-PLCC	5.91	4.73	3.12
LN87C51FA1SF76	823334-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	8.66	6.93	4.57
LN87C51FC20SF76	811064-ND	5V, 20MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	8.81	6.94	5.25
LN87C51FC24SF76	812078-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	8.81	6.94	5.25
LP87C51FC1SF76	823340-ND	5V, 16MHz, 8-Bit, 32K OTP MCU, Extended Temperature	40-Dip	8.81	6.94	5.25
N87C51FA33SF76	810753-ND	5V, 33MHz, 8-Bit, 8K OTP MCU	44-PLCC	8.47	6.78	4.47
N87C51FB1SF76	812060-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.05	5.55	4.20
N87C51FB20SF76	810972-ND	5V, 20MHz, 8-Bit, 16K OTP MCU	44-PLCC	8.81	6.94	5.25
N87C51FB24SF76	811012-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.05	5.55	4.20
N87C51FB33SF76	811022-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.76	6.11	4.62
N87C51FC24SF76	811089-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-PLCC	7.99	6.29	4.76
N87C51FC33SF76	811090-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	44-PLCC	8.79	6.92	5.24
EE87C51RA24	864004-ND	5V, 24MHz, 8-Bit, 8K OTP MCU* ***NEW!***	44-PLCC	8.25	6.60	4.35
N87C51RB24	807306-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.99	6.29	4.76
N87C51RC24	800338-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-PLCC	8.93	7.03	5.32
P87C5124SF76	811003-ND	5V, 24MHz, 8-Bit, 4K OTP MCU	40-Dip	4.95	3.96	2.61
P87C51FA1SF76	810744-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	7.70	6.16	4.06
P87C51FA24SF76	810748-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	40-Dip	7.70	6.16	4.06
P87C51FB24SF76	811020-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	40-Dip	7.05	5.55	4.20
P87C51FB33SF76	810366-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	40-Dip	7.76	6.11	4.62
P87C51FC1SF76	811076-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	40-Dip	7.99	6.29	4.76
P87C51FC24SF76	811077-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	40-Dip	7.99	6.29	4.76
P87C51RA1	806971-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	7.05	5.55	4.20
P87C51RA24	807140-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	40-Dip	7.05	5.55	4.20
P87C51RB1	807273-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	40-Dip	7.99	6.29	4.76
P87C51RB24	807310-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	40-Dip	7.99	6.29	4.76
P87C51RC1	800209-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	40-Dip	8.93	7.03	5.32
P87C51RC24	800354-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	40-Dip	8.93	7.03	5.32
S87C51FA1SF76	804439-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	7.70	6.16	4.06
S87C51FA24SF76	810749-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-MQFP	7.70	6.16	4.06
S87C51FB24SF76	811017-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.05	5.55	4.20
S87C51FB33SF76	811019-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.76	6.11	4.62
S87C51FC1SF76	806104-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51FC24SF76	811081-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51RA24	807154-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-MQFP	7.05	5.55	4.20
S87C51RB1	807279-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51RB24	807314-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.99	6.29	4.76
S87C51RC1	800221-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	8.93	7.03	5.32
S87C51RC24	800375-ND	5V, 24MHz, 8-Bit, 32K OTP MCU	44-MQFP	8.93	7.03	5.32
TN87C511SF76	811004-ND	5V, 16MHz, 8-Bit, 4K OTP MCU, Extended Temperature	44-PLCC	5.36	4.29	2.83
TN87C5124SF76	810989-ND	5V, 24MHz, 8-Bit, 4K OTP MCU, Extended Temperature	44-PLCC	5.36	4.29	2.83
TN87C51FA1SF76	810774-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	8.11	6.49	4.28
TN87C51FA24SF76	810975-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	8.11	6.49	4.28
TN87C51FB1SF76	812042-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-PLCC	7.40	5.83	4.41
TN87C51FB24SF76	812495-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-PLCC	7.40	5.83	4.41
TN87C51FC1SF76	812059-ND	5V, 16MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	8.34	6.57	4.97
TN87C51FC24SF76	811071-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	8.34	6.57	4.97
TN87C51RA1	807001-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	7.40	5.83	4.41
TN87C51RB24	807318-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-PLCC	8.34	6.57	4.97
TN87C51RC24	800391-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-PLCC	9.28	7.31	5.53
TP87C51FA1SF76	810986-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	40-Dip	8.11	6.49	4.28
TP87C51FA24SF76	810990-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	40-Dip	8.11	6.49	4.28
TP87C51FB1SF76	811023-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	40-Dip	7.40	5.83	4.41
TP87C51FB24SF76	811015-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	40-Dip	7.40	5.83	4.41
TP87C51FC1SF76	814033-ND	5V, 16MHz, 8-Bit, 32K OTP MCU, Extended Temperature	40-Dip	8.34	6.57	4.97
TP87C51RB24	807320-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	40-Dip	8.34	6.57	4.97
TP87C51RC24	800408-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	40-Dip	9.28	7.31	5.53
TS87C51FA24SF76	810982-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	8.11	6.49	4.28
TS87C51FB1SF76	812058-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-MQFP	7.40	5.83	4.41
TS87C51RA1	807033-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	7.40	5.83	4.41
TS87C51RA24	807166-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-MQFP	7.40	5.83	4.41
TS87C51RB1	807285-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-MQFP	8.34	6.57	4.97
TS87C51RB24	807322-ND	5V, 24MHz, 8-Bit, 16K OTP MCU, Extended Temperature	44-MQFP	8.34	6.57	4.97
TS87C51RC24	800417-ND	5V, 24MHz, 8-Bit, 32K OTP MCU, Extended Temperature	44-MQFP	9.28	7.31	5.53
N87C521SF76	810755-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM	44-PLCC	5.78	4.62	3.05
N87C5224SF76	810752-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	44-PLCC	5.78	4.62	3.05
N87C5233SF76	810763-ND	5V, 33MHz, 8-Bit, 8K OTP MCU	44-PLCC	6.35	5.09	3.35
P87C521SF76	810765-ND	5V, 16MHz, 8-Bit, 8K OTP EPROM	40-Dip	5.78	4.62	3.05
P87C5224SF76	810767-ND	5V, 24MHz, 8-Bit, 8K OTP MCU	40-Dip	5.78	4.62	3.05
P87C5233SF76	810768-ND	5V, 33MHz, 8-Bit, 8K OTP MCU	40-Dip	6.35	5.09	3.35
S87C521SF76	810770-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-MQFP	5.78	4.62	3.05
TN87C521SF76	810688-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	6.19	4.95	3.27
TN87C5224SF76	819853-ND	5V, 24MHz, 8-Bit, 8K OTP MCU, Extended Temperature	44-PLCC	6.19	4.95	3.27
AN87C54F8	821116-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Automotive	44-PLCC	14.52	11.44	8.66
D87C5433SF76	810732-ND	5V, 33MHz, 8-Bit, 16K UV EPROM	40-CDip	28.88	22.83	18.57
N87C541SF76	810719-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.70	6.16	4.06
N87C5424SF76	810720-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.70	6.16	4.06
N87C5433SF76	810721-ND	5V, 33MHz, 8-Bit, 16K OTP MCU	44-PLCC	7.24	5.70	4.32
S87C541SF76	810369-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.70	6.16	4.06
S87C5424SF76	810712-ND	5V, 24MHz, 8-Bit, 16K OTP MCU	44-MQFP	7.70	6.16	4.06
TD87C541SF76	823347-ND	5V, 16MHz, 8-Bit, 16K UV EPROM MCU, Extended Temp.	40-CDip	26.57	21.00	17.08

* ***RoHS Compliant***

(Continued)

MCS® 51 MICROCONTROLLERS *(Continued)*

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
N87C581SF76	810724-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-PLCC	6.11	4.81	3.64
N87C5833SF76	810725-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	44-PLCC	6.72	5.30	4.01
P87C581SF76	823402-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	40-Dip	6.11	4.81	3.64
P87C5820SF76	810728-ND	5V, 20MHz, 8-Bit, 32K OTP MCU	40-Dip	6.11	4.81	3.64
P87C5833SF76	810729-ND	5V, 33MHz, 8-Bit, 32K OTP MCU	40-Dip	6.72	5.30	4.01
S87C581SF76	810734-ND	5V, 16MHz, 8-Bit, 32K OTP MCU	44-MQFP	6.11	4.81	3.64

MCS® 96 MICROCONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
EE80C196KB16	863947-ND	5V, 16MHz, 16-Bit MPU* ***NEW!***	68-PLCC	10.86	8.69	5.73
N80C196KC20	804097-ND	5V, 20MHz, 16-Bit MPU	68-PLCC	14.34	11.29	8.54
N80C196MD	804212-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	84-PLCC	17.16	13.51	10.22
N80C196MH	804221-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	84-PLCC	19.27	15.17	11.48
EG80C196EA	864391-ND	5V, 40MHz, 16-Bit Event Processor Array MPU* ***NEW!***	160-QFP	21.15	16.65	12.60
S80C196KC20	804117-ND	5V, 20MHz, 16-Bit High Speed In/Out MPU	80-MQFP	14.34	11.29	8.54
S80C196MC	804203-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU	80-MQFP	16.45	12.95	9.80
EG80C196MH	864511-ND	5V, 16MHz, 16-Bit Industrial Motor Control MPU* ***NEW!***	80-MQFP	19.27	15.17	11.48
EG80C196NP25	864521-ND	5V, 25MHz, 16-Bit Event Processor Array MPU* ***NEW!***	100-QFP	17.63	13.88	10.50
S80C196NU40	804302-ND	5V, 40MHz, 16-Bit Event Processor Array MPU	100-QFP	18.80	14.80	11.20
EG80C196NU40	864520-ND	5V, 40MHz, 16-Bit Event Processor Array MPU* ***NEW!***	100-QFP	18.80	14.80	11.20
S80C196NU50	804314-ND	5V, 50MHz, 16-Bit Event Processor Array MPU	100-QFP	20.68	16.28	12.32
SB80C196KC20	811735-ND	5V, 20MHz, 16-Bit High Speed In/Out MPU	80-SQFP	14.34	11.29	8.54
SB80C196NP	804243-ND	5V, 25MHz, 16-Bit Event Processor Array MPU	100-SQFP	17.63	13.88	10.50
SB80C196NP25	804256-ND	5V, 25MHz, 16-Bit Event Processor Array MPU	100-SQFP	17.63	13.88	10.50
SB80C196NU40	804308-ND	5V, 40MHz, 16-Bit Event Processor Array MPU	100-SQFP	18.80	14.80	11.20
SB80C196NU50	804321-ND	5V, 50MHz, 16-Bit Event Processor Array MPU	100-SQFP	18.48	14.61	11.88
TN80C196KC20	804155-ND	5V, 20MHz, 16-Bit High Speed I/O MPU, Extended Temperature	68-PLCC	14.69	11.57	8.75
QX87C196CA16	863897-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Automotive* ***NEW!***	68-PLCC	39.63	31.33	25.48
AN87C196JRF8	821035-ND	5V, 16MHz, 16-Bit, 16K OTP MCU, Automotive	52-PLCC	19.98	15.73	11.90
AN87C196JTWB20	828470-ND	5V, 20MHz, 16-Bit, 32K OTP MCU, Automotive	52-PLCC	21.15	16.65	12.60
AN87C196JV20F8	821068-ND	5V, 20MHz, 16-Bit, 48K OTP MCU, Automotive	52-PLCC	25.20	19.92	16.20
AN87C196KC16F8	820746-ND	5V, 16MHz, 16-Bit, 16K OTP MCU, Automotive	68-PLCC	18.90	14.94	12.15
QX87C196KD16	864068-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Automotive* ***NEW!***	68-PLCC	25.20	19.92	16.20
QX87C196KR16	864070-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Automotive* ***NEW!***	68-PLCC	29.53	23.34	18.99
QX87C196KT16	864072-ND	5V, 16MHz, 16-Bit, 16K OTP MCU, Automotive* ***NEW!***	68-PLCC	44.67	35.31	28.72
AN87C196LA20F8	821030-ND	5V, 20MHz, 16-Bit, 24K OTP MCU, Automotive	52-PLCC	33.62	26.58	21.62
AS87C196CB20F8	821067-ND	5V, 20MHz, 16-Bit, 56K OTP MCU, Automotive	100-QFP	39.48	31.21	25.38
EE87C196KC20	863921-ND	5V, 20MHz, 16-Bit, 16K OTP MCU* ***NEW!***	68-PLCC	23.21	18.35	14.92
N87C196KD	802848-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	68-PLCC	25.31	20.01	16.27
N87C196KD20	802914-ND	5V, 20MHz, 16-Bit, 32K OTP MCU	68-PLCC	25.31	20.01	16.27
EE87C196KDH20	863920-ND	5V, 20MHz, 16-Bit, 32K OTP MCU* ***NEW!***	68-PLCC	25.31	20.01	16.27
EE87C196MC	863926-ND	5V, 16MHz, 16-Bit, 16K OTP Industrial Motor Control MCU* ***NEW!***	84-PLCC	19.98	15.73	11.90
N87C196MD	803624-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	84-PLCC	18.48	14.61	11.88
N87C196MH	803661-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	84-PLCC	19.95	15.77	12.83
N87C196NT	803728-ND	5V, 20MHz, 16-Bit, 32K OTP MCU	68-PLCC	27.30	21.58	17.55
S87C196KB16	802539-ND	5V, 16MHz, 16-Bit, 8K OTP MCU	80-QFP	18.92	14.90	11.27
S87C196KC20	802755-ND	5V, 20MHz, 16-Bit, 16K OTP MCU	80-MQFP	23.21	18.35	14.92
S87C196KD	802861-ND	5V, 16MHz, 16-Bit, 32K OTP MCU	80-MQFP	25.31	20.01	16.27
S87C196MD	803636-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	80-MQFP	18.48	14.61	11.88
EG87C196MH	864507-ND	5V, 16MHz, 16-Bit, 32K OTP Industrial Motor Control MCU* ***NEW!***	80-QFP	22.33	17.58	13.30
SB87C196KC20	802774-ND	5V, 20MHz, 16-Bit, 16K OTP MCU	80-SQFP	23.21	18.35	14.92
YW87C196KC20	864107-ND	5V, 20MHz, 16-Bit, 16K OTP MCU* ***NEW!***	80-SQFP	23.21	18.35	14.92
TN87C196CA	817074-ND	5V, 16MHz, 16-Bit, 32K OTP MCU, Extended Temp.	68-PLCC	17.85	14.11	11.48
TN87C196CB	817075-ND	5V, 16MHz, 16-Bit, 56K OTP MCU, Extended Temp.	84-PLCC	19.95	15.77	12.83
EN87C196KB16	864857-ND	5V, 16MHz, 16-Bit, 8K OTP MCU, Extended Temp.* ***NEW!***	68-PLCC	19.27	15.17	11.48
EN87C196KC20	864858-ND	5V, 20MHz, 16-Bit, 16K OTP MCU, Extended Temp.* ***NEW!***	68-PLCC	23.52	18.60	15.12
U87C196MC	803558-ND	5V, 16MHz, 16-Bit, 16K OTP MCU	64-SDip	18.90	14.94	12.15

MCS® 251 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
N80C251SB16SF87	804421-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM	44-PLCC	9.35	7.48	4.93
P80C251SB16	804434-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM	40-Dip	9.35	7.48	4.93
P80C251SQ16	804477-ND	5V, 16MHz, 8-Bit MPU, 512 Byte Register RAM	40-Dip	8.80	7.04	4.64
P80C251TB24	816703-ND	5V, 24MHz, 8-Bit MPU, 1K Register RAM	40-Dip	8.25	6.60	4.35
P80C251TQ24	816704-ND	5V, 24MHz, 8-Bit MPU, 512K Register RAM	40-Dip	7.70	6.16	4.06
TN80C251SB16	804441-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM, Ext. Temp.	44-PLCC	9.76	7.81	5.15
EN80C251SB16	864907-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM, Ext. Temp.* ***NEW!***	44-PLCC	9.76	7.81	5.15
TN80C251SQ16	804487-ND	5V, 16MHz, 8-Bit MPU, 512 Byte Register RAM, Ext. Temp.	44-PLCC	9.21	7.37	4.86
TP80C251SB16	804453-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM, Extended Temp.	40-Dip	9.76	7.81	5.15
EJ80C251SB16	865044-ND	5V, 16MHz, 8-Bit MPU, 1K Register RAM, Extended Temp.* ***NEW!***	40-Dip	9.76	7.81	5.15
TP80C251SQ16	804495-ND	5V, 16MHz, 8-Bit MPU, 512 Byte Register RAM, Extended Temp.	40-Dip	9.21	7.37	4.86
TP80C251TB24	816714-ND	5V, 24MHz, 8-Bit MPU, 1K Register RAM, Extended Temp.	40-Dip	8.66	6.93	4.57
TP80C251TQ24	816718-ND	5V, 24MHz, 8-Bit MPU, 512K Register RAM, Ext. Temp.	40-Dip	8.11	6.49	4.28
N87C251SP16	803998-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	44-PLCC	8.06	6.35	4.81
N87C251SQ16	804054-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	44-PLCC	8.72	6.87	5.20
P87C251SA16	803788-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	8.23	6.48	4.90
P87C251SP16	804007-ND	5V, 16MHz, 8-Bit, 8K OTP MCU	40-Dip	8.06	6.35	4.81
P87C251SQ16	804066-ND	5V, 16MHz, 8-Bit, 16K OTP MCU	40-Dip	8.72	6.87	5.20
TN87C251SA16	803800-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	44-PLCC	8.58	6.76	5.11
TN87C251SP16	804021-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	44-PLCC	8.41	6.63	5.02
TN87C251SQ16	804087-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	44-PLCC	9.07	7.15	5.41
TP87C251SA16	803809-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	40-Dip	8.58	6.76	5.11
TP87C251SB16	803973-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	40-Dip	9.52	7.50	5.67
TP87C251SP16	804036-ND	5V, 16MHz, 8-Bit, 8K OTP MCU, Extended Temp.	40-Dip	8.41	6.63	5.02
TP87C251SQ16	804103-ND	5V, 16MHz, 8-Bit, 16K OTP MCU, Extended Temp.	40-Dip	9.07	7.15	5.41

i960 MICROPROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
A80960CA16	802846-ND	16MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	168-PGA	64.85	51.20	44.37
A80960CA25	802884-ND	25MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	168-PGA	69.96	55.23	47.87
A80960CA33	802946-ND	33MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	168-PGA	83.56	65.97	57.18
A80960CF25	803021-ND	25MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	168-PGA	86.60	68.37	59.26
A80960CF33	803084-ND	33MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	168-PGA	89.78	78.90	69.38
A80960CF40	803133-ND	40MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	168-PGA	111.47	97.97	86.14
A80960HA33SL2GY	813629-ND	33MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	87.06	68.73	59.57
A80960HA40SL2GZ	813628-ND	40MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	90.74	71.64	62.09
A80960HD50SL2GH	815231-ND	50MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	168-CPGA	85.19	74.87	65.83
A80960HD66SL2GJ	815230-ND	66MHz, i960HD, 32-Bit MPU, 33MHz Bus, 3.3V	168-CPGA	91.66	80.55	70.83
A80960HT75SL2GP	814114-ND	75MHz, i960HT, 32-Bit MPU, 3.3V, 16K Cache	168-PGA	101.76	89.43	78.63
A80960JA3V25	819528-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-PGA	48.09	37.97	32.91
A80960JA3V33	819529-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-PGA	57.00	45.00	39.00
A80960JD3V33	819533-ND	33MHz, i960JD, 32-Bit MPU, 16MHz Bus, 3.3V, 4K Cache	132-PGA	66.50	52.50	45.50
A80960JD3V50	819536-ND	50MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	74.18	58.56	50.76
A80960JD3V66	819538-ND	66MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	83.60	66.00	57.20
A80960JF3V25	819540-ND	25MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	66.50	52.50	45.50
A80960JF3V33	819542-ND	33MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	76.00	60.00	52.00
A80960KA16	803435-ND	16MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-PGA	48.30	38.18	31.05
A80960KA25	803490-ND	25MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-PGA	51.45	40.67	33.08
A80960KB16	803496-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-PGA	42.69	33.75	27.45
A80960KB20	803516-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-PGA	53.97	42.67	34.70
A80960KB25	803535-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-PGA	56.70	44.82	36.45
A80960MC25	816319-ND	25MHz, i960MC, 32-Bit MPU, 512 Byte Cache	132-CPGA	192.05	180.50	173.28

* ***RoHS Compliant***

(Continued)

i960 MICROPROCESSORS *(Continued)*

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
FC80960HA25SL2GU	813626-ND	25MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	65.74	51.90	44.98
FC80960HA33SL2GV	813627-ND	33MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	73.66	58.16	50.41
FC80960HA40SL2GW	813625-ND	40MHz, i960HA, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	77.12	60.89	52.77
FC80960HD32SL2GL	815243-ND	32MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	78.36	61.86	53.62
FC80960HD50SL2GM	815241-ND	50MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	83.89	66.23	57.40
FC80960HD66SL2GN	815238-ND	66MHz, i960HD, 32-Bit MPU, 3.3V, 16K Cache	208-SQFP	84.86	74.58	65.58
FC80960HT75SL2GT	815234-ND	75MHz, i960HT, 32-Bit MPU, 3.3V, 16K Cache	208-QFP	89.45	78.61	69.12
FW80960VH100	820682-ND	100MHz, i960VH, 32-Bit MPU, 3.3V, 16K Cache	324-BGA	75.43	59.55	51.61
GD80960JA25	820061-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	196-BGA	28.41	22.46	18.27
GD80960JA33	820063-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	196-BGA	35.47	28.04	22.81
GD80960JF33	819771-ND	33MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	196-BGA	44.75	35.38	28.77
KU80960CA16	802858-ND	16MHz, i960CA, 32-Bit MPU with DMA, 1K Cache	196-QFP	71.69	56.68	46.09
KU80960CF25	803044-ND	25MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	196-QFP	70.78	55.88	48.43
KU80960CF33	803114-ND	33MHz, i960CF, 32-Bit MPU with DMA, 4K Cache	196-QFP	85.37	67.40	58.41
N80960SA10	803819-ND	10MHz, i960SA, 32-Bit MPU, 512 Byte Cache	84-PLCC	19.98	15.73	11.90
N80960SA16	803825-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache	84-PLCC	21.15	16.72	13.60
N80960SA20	803859CT-ND	20MHz, i960SA, 32-Bit MPU, 5V	84-PLCC	22.74	17.98	14.63
N80960SB10	803870-ND	10MHz, i960SB, 32-Bit MPU, 512 Byte Cache	84-PLCC	18.75	14.77	11.18
EE80960SB16512	863986-ND	16MHz, i960SB, 32-Bit MPU, 512 Byte Cache* ***NEW!***	84-PLCC	20.77	16.36	12.38
NG80960JA3V16	819544-ND	16MHz, i960JA, 32-Bit MPU, 2K Cache, 3.3V	132-QFP	23.45	18.47	13.98
NG80960JA3V25	819545-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-QFP	28.41	22.46	18.27
NG80960JA3V33	819546-ND	33MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache	132-QFP	35.47	28.04	22.81
NG80960JC33	820340-ND	33MHz, i960JC, 32-Bit MPU, 16MHz Bus, 16K Cache	132-PQFP	55.23	43.66	35.51
NG80960JC66	820343-ND	66MHz, i960JC, 32-Bit MPU, 33MHz Bus, 16K Cache	132-PQFP	32.30	25.50	22.10
NG80960JC50	820342-ND	50MHz, i960JC, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	30.40	24.00	20.80
NG80960JD3V40	819550-ND	40MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	48.66	38.42	33.30
NG80960JD3V50	819551-ND	50MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-PGA	53.92	42.57	36.90
NG80960JD3V66	819553-ND	66MHz, i960JD, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	59.76	47.18	40.89
NG80960JF3V25	819556-ND	25MHz, i960JF, 32-Bit MPU, 3.3V, 4K Cache	132-QFP	37.42	29.59	24.06
NG80960JS25	820348-ND	25MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	24.15	19.09	15.53
NG80960JS33	820349-ND	33MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	31.50	24.90	20.25
NG80960JT100	818018-ND	100MHz, i960JT, 32-Bit MPU, 3.3V, 16K Cache	132-QFP	36.10	28.50	24.70
NG80960KA16	803445-ND	16MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-QFP	22.34	17.67	14.37
NG80960KA20	803464-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache	132-QFP	26.12	20.65	16.80
NG80960KB16	803504-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	24.55	19.41	15.79
NG80960KB20	803523-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	27.43	21.68	17.64
NG80960KB25	803540-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache	132-QFP	30.53	24.14	19.63
S80960SA16	803843-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache	80-MQFP	22.24	17.58	14.30
TA80960KA20	803470-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	46.18	36.51	29.69
TA80960KB16	803510-ND	16MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	47.38	37.45	30.46
TA80960KB20	803529-ND	20MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	50.17	39.66	32.26
TA80960KB25	803546-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-PGA	48.20	38.06	32.99
TG80960JA3V25	819558-ND	25MHz, i960JA, 32-Bit MPU, 3.3V, 2K Cache, Extended Temp.	132-QFP	30.85	24.39	19.84
TG80960JC66	826102-ND	66MHz, i960JC, 32-Bit MPU, 16K Cache	132-PQFP	36.10	28.50	24.70
TG80960JS25	824382-ND	25MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	26.04	20.59	16.74
TG80960JS33	825153-ND	33MHz, i960JS, 32-Bit MPU, 3.3V, 16K Cache, Extended Temp.	132-QFP	33.60	26.56	21.60
TG80960KA20	803479-ND	20MHz, i960KA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-QFP	27.43	21.68	17.64
TG80960KB25	803553-ND	25MHz, i960KB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	132-QFP	33.41	26.42	21.48
TN80960SA16	803846-ND	16MHz, i960SA, 32-Bit MPU, 512 Byte Cache, Extended Temp.	84-PLCC	24.95	19.73	16.04
TN80960SB16	803896-ND	16MHz, i960SB, 32-Bit MPU, 512 Byte Cache, Extended Temp.	84-PLCC	27.92	21.98	16.64

CONTROLLERS (PCI / LAN / WAN / CAN)

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
QX82527	863844-ND	CAN Protocol Serial Communications Controller, Automotive* ***NEW!***	44-PLCC	8.94	7.15	4.72
QE82527	863661-ND	CAN Protocol Serial Communications Controller, Automotive* ***NEW!***	44-QFP	9.35	7.48	4.93
EP82562ET	863275-ND	Platform LAN Connect (PLC) Controller* ***NEW!***	48-SSOP	9.65	7.73	5.09
FW82439HXSU115	807787CT-ND	82439HX System Controller (MHXC)	324-BGA	26.00	21.58	17.55
FW82439TXSL28T	813149TR-ND	82439TX System Controller (MTXC)	324-BGA	4788.00/360		
FW82439TXSL28T	813149CT-ND	82439TX System Controller (MTXC)	324-BGA	20.56	16.19	12.25
GCIXF440AC	831001-ND	Multiport 10/100 Mbps Ethernet Controller	352-BGA	60.61	47.85	41.47
GD82550EYSL4MJ	830751-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	33.43	26.43	21.50
GD82559ERSL3DG	825111-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	18.31	14.42	10.91
GD82559SL3HD	822772-ND	Fast Ethernet Multifunction PCI/Cardbus Controller	196-BGA	35.72	28.24	22.97
KU82596CA25SZ716	806726-ND	25MHz, 5V, LAN Coprocessor	132-QFP	33.60	26.56	21.60
KU82596CA33SZ717	806764-ND	33MHz, 5V, LAN Coprocessor	132-QFP	39.90	31.54	25.65
KU82596DX25SZ714	806807-ND	25MHz, 5V, LAN Coprocessor	132-QFP	39.90	31.54	25.65
KU82596DX33SZ715	806835-ND	33MHz, 5V, LAN Coprocessor	132-QFP	44.10	34.86	28.35
KU82596SX20SZ713	806867-ND	20MHz, 5V, LAN Coprocessor	132-QFP	32.55	25.73	20.93
SB82371SBSU093	805436-ND	PCI ISA IDE Xcelerator (PIIX3)	208-QFP	23.50	18.50	14.00
SCD223110QCD	832550-ND	2-Ch. Serial WAN Controller	100-MQFP	21.00	16.60	13.50
SCD240210QCM	832517-ND	Intelligent Multiprotocol WAN Communications Controller	160-QFP	21.15	16.65	12.60
SCD243110QCD	832518-ND	Advanced 4-Channel Serial WAN Communications Controller	100-MQFP	37.80	29.88	24.30
SCD248110QCD	832519-ND	Programmable 4-Channel WAN Communications Controller	100-QFP	40.43	31.96	25.99
EN82527	864938-ND	CAN Protocol Serial Communications Controller* ***NEW!***	44-PLCC	10.15	8.12	5.36

ETHERNET CONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
DA82562EM	829707-ND	10/100 Ethernet Platform LAN Connect Bus Controller	48-SSOP	18.35	14.45	10.94
FW82546GB	855352-ND	Dual Port Gigabit, Mac/Phy Ethernet Controller	364-BGA	97.40	85.60	75.27
GCIXF1002ED	832414-ND	Dual Port Gigabit Ethernet Media Access Controller	304-BGA	92.07	80.91	71.15
GD82541ER	858265-ND	Single Port Gigabit, Mac/Phy Ethernet Controller	196-BGA	31.37	24.80	20.17
LU82541ER	862931-ND	Single Port Gigabit, Mac/Phy Ethernet Controller* ***NEW!***	196-BGA	31.37	24.80	20.17
LU82541PI	860575-ND	Single Port Gigabit, Mac/Phy Ethernet Controller* ***NEW!***	196-BGA	37.04	29.29	23.82
GD82547GI	855106-ND	Single Port, 1 Gigabit, Mac/Phy Ethernet Controller using CSA	196-BGA	53.56	42.29	36.65
GD82550ELSL4MK	830748-ND	Fast Ethernet PCI/CardBus Cont.	196-BGA	34.13	26.98	21.94
GD82550GMSL4ML	831172-ND	Ethernet PCI/CardBus Controller	196-BGA	33.43	26.43	21.50
GD82550GYSL4Y5	833858-ND	Fast Ethernet PCI/CardBus Cont.	196-BGA	33.43	26.43	21.50
GD82550PMSL4Y7	834051-ND	Ethernet PCI/CardBus Controller	196-BGA	33.43	26.43	21.50
LU82551ER	860614-ND	Ethernet PCI/CardBus Ctrlr.* ***NEW!***	196-BGA	13.04	10.43	6.88
GD82559CSL3DF	825112-ND	10/100 PCI Bus Mac/PHY Ethernet Controller	196-BGA	35.72	28.24	22.97
GD82559ERSL3TU	826238-ND	10/100 PCI Bus Mac/PHY Ethernet Controller	196-BGA	16.36	12.94	10.52
LU82562EZ	860581-ND	10/100 Integrated Ethernet Platform LAN Connect Device* ***NEW!***	196-LBGA	9.65	7.73	5.09
RC82545GM	855561-ND	Single Port Gigabit Mac/Phy Ethernet Controller with SerDes	364-TBGA	85.23	67.29	58.32
S82562EH	829047-ND	10/100 Ethernet Platform LAN Connect Bus Controller	64-QFP	11.75	9.25	7.00
S82595FX	806680-ND	ISA/PCMCIA High Integration Ethernet Controller	160-MQFP	29.40	23.24	18.90
SB82558BSL2P4	816075-ND	32-Bit Fast Ethernet PCI Bus Controller with Integrated PHY	208-SQFP	35.70	28.22	22.95
TL82543GCSL4AC	829160-ND	10/100/100 PCI Bus Mac Gigabit Ethernet Controller	352-BGA	94.41	82.97	72.96

ETHERNET TRANSCEIVERS / RECEIVERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
DJLXT360LE.A2	832029-ND	1-Port Long-Haul T1/E1 Serial Transceiver	44-LQFP	18.80	14.80	11.20
DJLXT361LE.A2	832034-ND	1-Port Long-Haul T1/E1 Parallel Transceiver	44-LQFP	22.33	17.58	13.30
DJLXT380LE.B4	832251-ND	3.3V, 8-Port Short-Haul E1 Transceiver	144-LQFP	43.89	34.70	28.22
DJLXT381LE.B4	832255-ND	3.3V, 8-Port Short-Haul E1 Transceiver	144-LQFP	35.70	28.22	22.95
DJLXT384LE.B1	835827-ND	3.3V, 8-Port, T1/E1/J1 Short-Haul Transceiver	144-LQFP	32.93	26.00	22.53
DJLXT386LEB2834195	834195-ND	Quad T1/E1/J1 Short-Haul Xcvr.	100-LQFP	33.26	26.30	21.39
DJLXT388LEB2834197	834197-ND	Dual T1/E1/J1 Short-Haul Xcvr.	100-LQFP	17.70	14.00	11.39
DJLXT901ALC.A4	831684-ND	5V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.18	9.75	6.43
DJLXT901LC.E2	831686-ND	5V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	11.11	8.89	5.86
DJLXT905LC.C2	831645-ND	3.3V/5V, Univ. 10BASE-T Xcvr.	32-LQFP	7.92	6.34	4.18
WJLXT905LC.C2	863540-ND	3.3V/5V, Univ. 10BASE-T Xcvr.* ***NEW!***	32-LQFP	7.92	6.34	4.18

* ***RoHS Compliant***

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ETHERNET TRANSCEIVERS / RECEIVERS *(Continued)*

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
WJLXT905LE.C2	863533-ND	3.3V/5V, Univ. 10BASE-T Xcvr.* **NEW!**	32-LQFP	10.62	8.50	5.60
DJLXT907ALC.A4	831647-ND	3.3V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.18	9.75	6.43
DJLXT908LC.A4	831651-ND	3.3V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.27	9.82	6.47
DJLXT908LE.A4	831652-ND	3.3V, Univ. 10BASE-T/AUI Xcvr.	64-LQFP	12.87	10.30	6.79
DJLXT971ALCA4834105	834105-ND	3.3V, Fast Ethernet Transceiver	64-LQFP	7.81	6.25	4.12
WJLXT971ALE.A4	857343-ND	3.3V, 10/100Mbps Ethernet Xcvr.* **NEW!**	64-LQFP	9.82	7.86	5.18
DJLXT972ALCA4834109	834109-ND	3.3V, Fast Ethernet Transceiver	64-LQFP	6.22	4.98	3.28
FALXT970ATCB11	833825-ND	10/100Mbps Ethernet Transceiver	64-TQFP	13.65	10.75	8.14
FLLXT386BEB2834206	834206-ND	Quad T1/E1/J1 Short-Haul Xcvr.	160-BGA	39.69	31.38	25.52
FLLXT971ABCA4834103	834103-ND	3.3V, Fast Ethernet Transceiver	64-BGA	8.20	6.46	4.89
FLLXT971ABEA4834104	834104-ND	3.3V, Fast Ethernet Transceiver	64-BGA	9.42	7.42	5.62
FWLXT9781BCA9831679	831679-ND	8-Port Fast Ethernet Xcvr. (RMII)	272-BGA	21.84	17.27	14.04
FWLXT9782BCA9831681	831681-ND	8-Port Fast Ethernet Xcvr. (SMII)	272-BGA	21.84	17.27	14.04
FWLXT9782BC.C4	834115-ND	8-Port Fast Ethernet Xcvr. (SMII)	272-BGA	33.60	26.56	21.60
FWLXT9784BCA3834928	834928-ND	8-Port Fast Ethernet Transceiver (SMII, RMII)	324-BGA	73.50	58.10	47.25
FWLXT9784BE.A3	833561-ND	3.3V, 8-Port 10/100Mbps Transceiver (RMII, SMII)	324-BGA	73.50	58.10	47.25
FWLXT9785BC.D0	853308-ND	2.5V, Low Power, 8-Port, Ethernet Transceiver	241-PBGA	18.12	14.27	10.80
PRLXT9785BC.D0	865126-ND	2.5V, Low Power, 8-Port, Ethernet Transceiver* **NEW!**	241-PBGA	18.12	14.27	10.80
HBLXT970AHCB11	831600-ND	10/100Mbps Ethernet Xcvr.	64-HQFP	16.31	12.84	9.72
HBLXT974BHC.A8	831627-ND	5V, 4-Port 10/100 Ethernet Xcvr.	160-HQFP	21.19	16.75	13.63
WBLXT974BHC.A8	871486-ND	5V, 4-Port 10/100 Ethernet Xcvr.* **NEW!**	160-HQFP	21.19	16.75	13.63
HBLXT975BHC.A8	831630-ND	5V, 4-Port 10/100 Ethernet Xcvr.	160-HQFP	21.19	16.75	13.63
HBLXT9761HCB2835066	835066-ND	6-Port Fast Ethernet Xcvr. (RMII)	208-HQFP	18.82	14.88	12.10
HBLXT9762HCB2835376	835376-ND	6-Port Fast Ethernet Xcvr. (SMII)	208-HQFP	18.82	14.88	12.10
HBLXT9763HCA9831634	831634-ND	6-Port Fast Ethernet Xcvr. (MII)	208-HQFP	18.82	14.88	12.10
WBLXT9785HC.D0	865112-ND	2.5V, Low Power, 8-Port, Ethernet Transceiver* **NEW!**	208-HQFP	18.12	14.27	10.80
N82503	806119-ND	Dual Serial Ethernet Transceiver (802.3 10BASE-T/AUI)	44-PLCC	11.75	9.25	7.00
NLXT307PE.F4	832110-ND	5V, E1 Short-Haul Xcvr.	28-PLCC	13.59	10.87	7.17
NLXT332PE.G2	832128-ND	5V, Short-Haul 2-Ch. LIU T1/E1 Transceiver	44-PLCC	25.20	19.92	16.20
NLXT350PE.A2	832138-ND	1-Port Short-Haul T1/E1/J1 Serial Transceiver	28-PLCC	16.45	12.95	9.80
NLXT351PE.A2	832141-ND	1-Port Short-Haul T1/E1/J1 Parallel Transceiver	28-PLCC	15.28	12.03	9.10
NLXT360PE.A2	832100-ND	1-Port Long-Haul T1/E1 Serial Transceiver	28-PLCC	18.80	14.80	11.20
NLXT361PE.A2	832102-ND	1-Port Long-Haul T1/E1 Parallel Transceiver	28-PLCC	21.15	16.65	12.60
NLXT362PE.A3	832121-ND	1-Port Long-Haul T1 Serial Transceiver	28-PLCC	16.59	13.07	9.89
NLXT901APC.A4	831653-ND	5V, Universal 10BASE-T/AUI Transceiver	44-PLCC	10.67	8.54	5.63
EELXT905PC.C2	871672-ND	3.3V/5V, Universal 10BASE-T Transceiver* **NEW!**	28-PLCC	6.93	5.55	3.66
NLXT905PE.C2	831662-ND	3.3V/5V, Universal 10BASE-T Transceiver	28-PLCC	10.07	8.06	5.31
NLXT907APC.A4	831664-ND	3.3V, Universal 10BASE-T/AUI Transceiver	44-PLCC	11.85	9.49	6.25
NLXT908PC.A4	831668-ND	3.3V, Universal 10BASE-T/AUI Transceiver	44-PLCC	11.94	9.55	6.30
EELXT908PC.A4	871624-ND	3.3V, Universal 10BASE-T/AUI Transceiver* **NEW!**	44-PLCC	11.94	9.55	6.30
PDLXT305ANE.F4	832171-ND	5V, T1/E1 Short-Haul Xcvr.	28-Dip	16.45	12.95	9.80
PDLXT312ANE.A2	832288-ND	5V, Low Power, Dual T1 PCM Repeater/Transceiver	16-Dip	15.75	12.45	10.13
PDLXT315ANE.A2	832291-ND	5V, Low Power T1 PCM Repeater/Transceiver	16-Dip	16.45	12.95	9.80
S82503	806140-ND	Dual Serial Ethernet Transceiver (802.3, 10BASE-T/AUI)	44-MQFP	11.75	9.25	7.00
SLXT350QE.A2	832244-ND	1-Port Short-Haul T1/E1/J1 Serial Transceiver	44-QFP	17.63	13.88	10.50
SLXT351QE.A2	832246-ND	1-Port Short-Haul T1/E1/J1 Parallel Transceiver	44-QFP	18.80	14.80	11.20
SLXT360QE.A2	832197-ND	1-Port Long-Haul T1/E1 Serial Transceiver	44-QFP	22.33	17.58	13.30
SLXT361QE.A2	832199-ND	1-Port Long-Haul T1/E1 Parallel Transceiver	44-QFP	22.33	17.58	13.30
EGLXT970AQC.B11	873112-ND	10/100Mbps Ethernet Xcvr.* **NEW!**	64-QFP	13.04	10.27	7.77
EGLXT973QCA3V	873178-ND	2.5V, 10/100Mbps, Dual Port Ethernet Transceiver* **NEW!**	100-MQFP	10.78	8.63	5.69

ETHERNET REPEATERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
HBLXT983QC.A8	831540-ND	5V, 4-Port 10/100Mbps Ethernet Repeater	208-HQFP	33.60	26.56	21.60
HBLXT9860HCB3831549	831549-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	28.98	22.91	18.63
HBLXT9863HCB3834131	834131-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	21.86	17.29	14.06
HBLXT9863AHC.B4	837734-ND	6-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	18.00	14.23	11.57
HBLXT9880AHC.B4	837736-ND	8-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	42.76	33.80	27.49
HBLXT9883HCB3834133	834133-ND	8-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	27.32	21.60	17.57
HBLXT9883AHC.B4	837738-ND	8-Port Dual Speed 10/100 Fast Ethernet Repeater	208-HQFP	18.38	14.53	11.82
NLXT914PC.B3	831504-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, SMI, AUI)	68-PLCC	15.96	12.57	9.51
SLXT914QC.B3	831521-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, AUI)	100-QFP	14.36	11.31	8.56

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
SLXT914QC.C4	831524-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, AUI)	100-QFP	14.36	11.31	8.56
SLXT915QC.B3	831529-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, AUI)	64-QFP	12.29	9.68	7.33
EGLXT915QC.B3	865801-ND	5V, 4-Port 10Mbps Ethernet Repeater (IRB, AUI)* **NEW!**	64-QFP	12.29	9.68	7.33

TELECOM BROADBAND

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
FLIXF6151BEA2834984	834984-ND	28 T1/E1 Mapper	352-BGA	79.14	74.38	71.40
IXF6401BEC7A1835148	835148-ND	Broadband Access Processor	352-BGA	274.65	258.13	247.80
SLXT6051QEA1831841	831841-ND	SDH/SONET Overhead Terminator	208-QFP	129.48	113.79	100.05

BRIDGE CONTROLLERS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
GD31244SL786	856145-ND	4-Port PCI-X SATA Controller Bridge	256-LPBGA	35.91	28.39	23.09
NQ41210SL7JE	860909-ND	Serial to Parallel, 64-Bit Transparent, PCI Express to PCI X Bridge, 133MHz	567-FCBGA	52.80	41.69	36.13

PCI-to-PCI BRIDGES

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
21050AB	821286-ND	PCI-to-PCI Bridge	208-QFP	30.35	23.99	19.51
S21152BB	837092-ND	32-Bit, 33MHz Transparent PCI-to-PCI Bridge	160-QFP	18.99	14.95	11.32
EG21152BB SL7T7	865097-ND	32-Bit, 33MHz Transparent PCI-to-PCI Bridge* **NEW!**	160-QFP	18.99	14.95	11.32
FW21555ABSL6G8	848191-ND	64-Bit, 33MHz, PCI-to-PCI Bridge	304-BGA	49.65	39.20	33.97
PR21154BE SL7T9	865265-ND	64-Bit, 66MHz Transparent PCI-to-PCI Bridge* **NEW!**	304-BGA	51.28	40.54	32.97
FW21555BB	848192-ND	64-Bit, 66MHz Non-Transparent PCI-to-PCI Bridge	304-BGA	63.18	49.88	43.23
PR21555BB SL7UG	865267-ND	64-Bit, 66MHz Non-Transparent PCI-to-PCI Bridge* **NEW!**	304-BGA	63.18	49.88	43.23
GD21150BC	828154-ND	32-Bit, 66MHz Transparent PCI-to-PCI Bridge	256-LPBGA	42.82	33.85	27.53
SB21150AC	823168-ND	32-Bit, 33MHz Transparent PCI-to-PCI Bridge	208-QFP	39.06	30.88	25.11
SB21150BC	822894-ND	32-Bit, 66MHz Transparent PCI-to-PCI Bridge	208-QFP	42.82	33.85	27.53

INTERFACE ADAPTERS/CARDS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
A8238910	808498-ND	Multibus II Bus Interface Cont.	149-CPGA	132.00	116.00	102.00
DZPD6729VCE	832535-ND	PCI-to-PC Card Controller	208-LQFP	23.73	18.76	15.26
SPD6729QCC	832533-ND	PCI-to-PCMCIA Host Adapter	208-QFP	22.33	17.58	13.30
CNLA6000PK5	830447-ND	PRO/100 VE Desktop Adapter	—	178.95	168.19	161.46
MBLA3400C3	829954-ND	PRO/100 SR Mobile Adapter	—	91.77	86.25	82.80
MBLA3456C3	829957-ND	PRO/100 SR Combo Mobile Adapter	—	198.17	186.25	178.80
PILA8460C3	832696-ND	PRO/100 S Desktop Adapter	—	74.25	65.25	57.38
PILA8470C3	832702-ND	PRO/100 S Server Adapter	—	87.45	76.85	67.58

FLASH MEMORY

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★		
				1	10	100
E28F008S5120	808704-ND	8Mb, 5V, FLASH Memory (1Mx8)	40-TSOP	16.45	12.95	9.80
TE28F800C3BD70	868489-ND	8Mb, 3V, FLASH Memory (1Mx8)	48-TSOP	4.20	3.36	2.10
JS28F800C3BD70	868492-ND	8Mb, 3V, FLASH Memory (1Mx8)	48-TSOP	4.20	3.36	2.10
RC28F800C3BD70	867943-ND	8Mb, 3V, FLASH Memory (1Mx8)	64-BGA	4.20	3.36	2.10
PC28F800C3BD70	868493-ND	8Mb, 3V, FLASH Memory (1Mx8)	64-BGA	4.20	3.36	2.10
GT28F160B3BA90SB93	823475-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	3.13	2.47	1.87
GT28F160C3BA110	819287-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	5.43	4.28	3.24
GT28F160C3BA90SB93	823477-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	9.35	7.37	5.58
GT28F160C3TA110	819293-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-MBGA	5.43	4.28	3.24
GE28F160C3TD70	853978-ND	16Mb, 3V, FLASH Memory (1Mx16)	46-BGA	5.28	4.23	2.69
RC28F160C3BA110	830116-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	4.49	3.54	2.68
RC28F160C3BD70	853981-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	3.38	2.71	1.79
PC28F160C3BD70	865397-ND	16Mb, 3V, FLASH Memory (1Mx16)* **NEW!**	64-BGA	4.92	3.94	2.46
RC28F160C3TD70	853933-ND	16Mb, 3V, FLASH Memory (1Mx16)	64-BGA	3.66	2.93	1.93
PC28F160C3TD70	865400-ND	16Mb, 3V, FLASH Memory (1Mx16)* **NEW!**	64-BGA	4.92	3.94	2.46
RD28F1604C3BD70855156	855156-ND	16Mb, 3V, Stacked FLASH Memory with 4Mb SRAM	66-EBGA	7.81	6.25	4.12
RD28F1604C3TD70SB93	855158-ND	16Mb, 3V, Stacked FLASH Memory with 4Mb SRAM	66-EBGA	7.78	6.23	4.11
TE28F160B3BA90SB93	823471-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	6.11	4.81	3.64
JS28F160B3TD70	866262-ND	16Mb, 3V, FLASH Memory (1Mx16)* **NEW!**	48-TSOP	4.92	3.94	2.46
TE28F160C3BD70	853988-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	3.66	2.93	1.93
JS28F160C3BD70	866264-ND	16Mb, 3V, FLASH Memory (1Mx16)* **NEW!**	48-TSOP	4.92	3.94	2.46

* ***RoHS Compliant***

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intel FLASH MEMORY *(Continued)*

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
TE28F160C3BD90	853990-ND	16Mb, 3V, FLASH Memory (1Mx16)	48-TSOP	5.32	4.26	2.66
JS28F160C3TD70	866265-ND	16Mb, 3V, FLASH Memory (1Mx16)* ***NEW!***	48-TSOP	4.92	3.94	2.46
GE28F320B3BC70SB93	831112-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	6.03	4.77	3.88
GE28F320C3BC70SB93	831113-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	6.03	4.77	3.88
GE28F320C3BC90	830946-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-BGA	6.03	4.77	3.88
GT28F320B3BA100	823191-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320B3BA100SB93	823193-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	22.72	17.89	13.54
GT28F320B3TA100	823197-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320B3TA100SB93	823211-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	18.27	14.45	11.75
GT28F320B3TA110	820972-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320C3BA100	823205-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320C3BA100SB93	823207-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320C3BA110	820975-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	16.36	12.94	10.52
GT28F320C3TA100SB93	823213-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
GT28F320C3TA110	820978-ND	32Mb, 3V, FLASH Memory (2Mx16)	47-MBGA	7.88	6.23	5.07
RC28F320C3BA110	828110-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	8.09	6.40	5.20
PC28F320C3BD70	865363-ND	32Mb, 3V, FLASH Memory (2Mx16)* ***NEW!***	64-BGA	7.01	5.61	3.70
RC28F320C3TA110	828112-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	8.09	6.40	5.20
RC28F320C3TD70	851145-ND	32Mb, 3V, FLASH Memory (2Mx16)	64-BGA	5.83	4.59	3.48
RC28F320J3C110SL7H7	860791-ND	32Mb, 3V, FLASH Memory (4Mx8, 2Mx16)	64-EBGA	8.03	6.43	4.24
RD38F1020C0ZBL0SB93	849856-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	11.23	8.85	6.70
RD38F1020C0ZTL0SB93	849853-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	11.23	8.85	6.70
RD38F1020W0YBQ0SB93	858994-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	19.62	15.45	11.69
RD38F1020W0YTQ0SB93	858995-ND	32Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	66-EBGA	19.62	15.45	11.69
TE28F320C3BA100	823220-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	8.82	6.98	5.67
TE28F320C3BA110	820967-ND	32Mb, 3V, FLASH Memory (2Mx16)	48-TSOP	8.82	6.98	5.67
JS28F320C3BD70	864836-ND	32Mb, 3V, FLASH Memory (2Mx16)* ***NEW!***	48-TSOP	7.01	5.61	3.70
JS28F320C3TD70	864838-ND	32Mb, 3V, FLASH Memory (2Mx16)* ***NEW!***	48-TSOP	7.01	5.61	3.70
TE28F320J3C110SL7H8	860792-ND	32Mb, 3V, FLASH Memory (2Mx16)	56-TSOP	8.03	6.43	4.24
E28F640J3A120SL4AX	829867-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	56-TSOP	24.36	19.26	15.66
RC28F640J3C115SL7H9	860793-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	64-EBGA	10.41	8.20	6.21
RD38F2020W0YBQ0SB93	854798-ND	64Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	88-EBGA	14.39	11.38	9.25
RD38F2020W0YTQ0SB93	854813-ND	64Mb, 3V, Stacked FLASH Memory with 8Mb SRAM	88-EBGA	14.39	11.38	9.25
TE28F640J3C115SL7HA	860794-ND	64Mb, 3V, FLASH Memory (8Mx8, 4Mx16)	56-TSOP	10.41	8.20	6.21
JS28F640P30B85	873892-ND	64Mb, 1.8V, StrataFlash® Embedded Memory ***NEW!***	56-TSOP	10.92	8.74	5.76
JS28F640P30T85	873897-ND	64Mb, 1.8V, StrataFlash® Embedded Memory ***NEW!***	56-TSOP	10.92	8.74	5.76
PC28F640P30B85	873919-ND	64Mb, 1.8V, StrataFlash® Embedded Memory ***NEW!***	64-EBGA	10.92	8.74	5.76
PC28F640P30T85	873913-ND	64Mb, 1.8V, StrataFlash® Embedded Memory ***NEW!***	64-EBGA	10.92	8.74	5.76
RD38F3350WWZDQ1SB93	861440-ND	128Mb, 3V, Stacked FLASH Memory with 64Mb PSRAM	88-EBGA	48.17	38.03	32.96
TE28F128J3C150SL758	854767-ND	128Mb, 3V, FLASH Memory (16Mx8, 8Mx16)	56-TSOP	16.65	13.17	10.71
JS28F128P30B85	873810-ND	128Mb, 1.8V StrataFlash® Embedded Memory ***NEW!***	56-TSOP	16.36	12.88	9.75
JS28F128P30T85	873824-ND	128Mb, 1.8V StrataFlash® Embedded Memory ***NEW!***	56-TSOP	16.36	12.88	9.75
PC28F128P30B85	873877-ND	128Mb, 1.8V StrataFlash® Embedded Memory ***NEW!***	64-EBGA	16.36	12.88	9.75
PC28F128P30T85	873880-ND	128Mb, 1.8V StrataFlash® Embedded Memory ***NEW!***	64-EBGA	16.36	12.88	9.75
JS28F256P30B95	877823-ND	256Mb, 1.8V StrataFlash® Embedded Memory ***NEW!***	56-TSOP	21.67	17.14	13.94
JS28F256P30T95	877825-ND	256Mb, 1.8V StrataFlash® Embedded Memory ***NEW!***	56-TSOP	21.67	17.14	13.94
PC28F256P30B85	873888-ND	256Mb, 1.8V StrataFlash® Embedded Memory ***NEW!***	64-EBGA	21.67	17.14	13.94
PC28F256P30T85	873900-ND	256Mb, 1.8V StrataFlash® Embedded Memory ***NEW!***	64-EBGA	21.67	17.14	13.94

intel DIRECT DIGITAL SYNTHESIS PRODUCT

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
1375A80CE	828902-ND	Mini 25MHz Digital Freq. Synthesizer	35-DIL	641.25	630.99	615.60

intel DEMODULATION AND CODING PRODUCT

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
N2105CM	828541-ND	Digital CMOS QPSK Cable Demod.	68-PLCC	23.10	18.26	14.85

intel PERIPHERAL INTERFACE PRODUCTS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
GCIXB3208AA	831425-ND	8-Port, 32-Bit, IX Bus Peripheral Controller	352-BGA	106.92	93.96	82.62
N87C42	804115-ND	8-Bit, Universal Peripheral Interface Slave Microcontroller	44-PLCC	16.45	12.95	9.80
EE87C42	863950-ND	8-Bit, Universal Peripheral Interface Slave Microcontroller* ***NEW!***	44-PLCC	16.45	12.95	9.80
P87C42	804121-ND	8-Bit, Universal Peripheral Interface Slave Microcontroller	40-Dip	16.45	12.95	9.80

intel MODEM CHIPSETS, CONTROLLERS, DSPs, AFEs

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
MD5660AMS101	830882-ND	ISA/Serial Modem Chipset (MD4450CSCB, MD5660DTMA, MD1724T11VCB)	—	16.45	12.95	9.80
MD5661AMV101	830883-ND	PCMCIA Modem Chipset (MD4451CVCB, MD5661DTLA, MD1724T11VCB)	—	14.70	11.62	9.45
MD5662AMS101	830884-ND	ISA/Serial Modem Chipset (MD4450CSCB, MD5660DTMA, (MD1724T11VCB, 2pcs))	—	21.63	17.10	13.91
MD5675TS101	830885-ND	USB Modem Chipset (MD4470CSCB, MD5660DTMA, MD1724T11VCB)	—	18.90	14.94	12.15
DQMD4451CVCB	830839-ND	5V, 4451CV Controller	128-LQFP	7.05	5.55	4.20
FYMD4450CSCB	830837-ND	5V, 4450CS Controller	128-SQFP	7.05	5.55	4.20
FYMD4450CVCB	830890-ND	5V, 4450CV Controller	128-SQFP	16.59	13.07	9.89
FYMD4470CSCB	830849-ND	5V, 4470CS Controller	128-SQFP	16.17	12.73	9.64
DJMD5628DLB	830836-ND	3.3V, 5628 Digital Signal Proc.	100-LQFP	8.23	6.48	4.90
DQMD5661DTLA	830848-ND	3.3V, 5661 Digital Signal Proc.	128-LQFP	7.05	5.55	4.20
FYMD5660DTMA	830842-ND	3.3V, 5660 Digital Signal Proc.	128-SQFP	7.05	5.55	4.20
FYMD8820	830850-ND	3.3V, 8820 Digital Signal Proc.	128-SQFP	47.77	37.71	32.69
DYMD1724T11VCB	830851-ND	5V, Sigma-Delta Analog Front End	44-LQFP	4.00	3.20	1.90

intel XSCALE™ STORAGE PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
FW80219M400SL7CL	858184-ND	32-Bit, GP, High Perf. PCI Processor with Xscale™ Microarchitecture with 64-Bit PCI-X Interface, 400MHz	544-BGA	54.21	42.80	37.09
FW80219M600SL7CM	858207-ND	32-Bit, GP, High Perf. PCI Processor with Xscale™ Microarchitecture with 64-Bit PCI-X Interface, 600MHz	544-BGA	61.75	48.75	42.25
FW80321M600SL6R3	850667-ND	32-Bit, High Perf. PCI Processor with Xscale™ Microarchitecture with 64-Bit PCI-X Interface, 600MHz	544-BGA	135.94	119.47	105.05

intel XSCALE™ NETWORK PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
FWIXP421BB	852277-ND	266MHz Network Processor with Xscale™ Core, 2 HSS Serial Ports	492-BGA	30.22	23.89	19.43
FWIXP422BB	852276-ND	266MHz Network Processor with Xscale™ Core, Crypto Processor Support	492-BGA	29.23	23.11	18.80
FWIXP425BB	852264-ND	266MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utupia 2 Interface	492-BGA	36.20	28.62	23.28
PRIXP425BB	869046-ND	266MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utupia 2 Interface* ***NEW!***	492-BGA	36.20	28.62	23.28
FWIXP425BD	852279-ND	533MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utupia 2 Interface	492-BGA	62.91	49.67	43.05
PRIXP425BD	866108-ND	533MHz, 2 HSS Ports, Crypto Processor Support, 2 Integrated 10/100 Ethernet MAC, Utupia 2 Interface* ***NEW!***	492-BGA	62.91	49.67	43.05

intel XSCALE™ HANDHELD APPLICATION PROCESSORS

Intel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	10	100
GDPXA255A0C200	852064-ND	200MHz, PXA255 Processor with Xscale™ Technology	256-BGA	27.30	21.58	17.55
GDPXA255A0E200	852055-ND	200MHz, PXA255 Processor with Xscale™ Technology, Ext. Temp	256-BGA	29.32	23.18	18.85
LUPXA255A0C400	867748-ND	400MHz, PXA255 Processor with Xscale™ Technology* ***NEW!***	256-BGA	45.91	36.29	29.52
GDPXA255A0E400	852106-ND	400MHz, PXA255 Processor with Xscale™ Technology, Ext. Temp.	256-BGA	46.28	36.54	31.67

Infineon INTEGRATED CIRCUITS

NEW! LED Ballasts NEW!

Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
BCR401RE6327	BCR401RE6327INCT-ND	18V, 60mA LED Driver	SOT-143	.46	.22	.18
BCR401RE6327	BCR401RE6327INTR-ND	18V, 60mA LED Driver	SOT-143	384.00/3,000		
BCR402RE6327	BCR402RE6327INCT-ND	18V, 60mA LED Driver	SOT-143	.46	.22	.18
BCR402RE6327	BCR402RE6327INTR-ND	18V, 60mA LED Driver	SOT-143	384.00/3,000		
BCR402UE6327	BCR402UE6327INCT-ND	40V, 65mA LED Driver	SC-74	.58	.29	.23
BCR405UE6327	BCR405UE6327INCT-ND	40V, 65mA LED Driver	SC-74	.58	.29	.23
BCR405UE6327	BCR405UE6327INTR-ND	40V, 65mA LED Driver	SC-74	510.00/3,000		

Power Management

Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
ADM6996LX-AA-T-1	ADM6996LX-AA-T-1IN-ND	High Performance, 6-Port, 10/100Mbps TX/FX Switch ***NEW!***	128-QFP	6.19	4.29	3.84
BSP76-E6327	BSP76-E6327INCT-ND	Smart Lowside Power Switch	SOT-223	1.73	1.50	1.16
BSP76-E6327	BSP76-E6327INTR-ND	Smart Lowside Power Switch	SOT-223	691.00/1,000		
BSP742T	BSP742TINCT-ND	Smart Power Highside Switch	P-DSO-8	1.58	1.37	1.06

** RoHS Compliant*

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Infineon INTEGRATED CIRCUITS *(Continued)*

Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
BSP742T	BSP742TINTR-ND	Smart Power Highside Switch	P-DSO-8	1540.00/2,500		
BSP752R	BSP752RINCT-ND	Smart Power Highside Switch	8-SOIC	1.98	1.72	1.33
BSP752R	BSP752RINTR-ND	Smart Power Highside Switch	8-SOIC	1860.00/2,500		
BTS282Z-E3180A	BTS282ZE3180AINCT-ND	Enhancement Mode N-Channel Speed TEMPFET®	P-TO220-7-3	4.06	3.54	2.63
BTS282Z-E3180A	BTS282ZE3180AINTR-ND	Enhancement Mode N-Channel Speed TEMPFET®	P-TO220-7-3	2114.00/1,000		
BTS117	BTS117IN-ND	Smart Lowside Power Switch	P-TO-220-3-1	2.34	1.96	1.64
BTS133	BTS133IN-ND	Smart Lowside Power Switch	P-TO-220-3-1	2.97	2.59	1.93
BTS141	BTS141IN-ND	Smart Lowside Power Switch	P-TO-220-3-1	4.30	3.75	2.79
BTS409L1	BTS409L1IN-ND	Smart Highside Power Switch	TO-220AB/5	2.46	2.05	1.73
BTS410F2-E3062A	BTS410F2E3062INCT-ND	Smart Highside Power Switch	D2-PAK	3.28	2.86	2.13
BTS410F2-E3062A	BTS410F2E3062INTR-ND	Smart Highside Power Switch	D2-PAK	1713.00/2,500		
BTS428L2	BTS428L2INCT-ND	1-Ch., 60m-Ohm, Smart Highside Power Switch	TO-252-5-1	2.28	1.99	1.48
BTS428L2	BTS428L2INTR-ND	1-Ch., 60m-Ohm, Smart Highside Power Switch	TO-252-5-1	2965.00/2,500		
BTS432E2	BTS432E2IN-ND	Smart Highside Power Switch	TO-220AB/5	4.97	4.33	3.23
BTS442E2	BTS442E2IN-ND	Smart Highside Power Switch	TO-220AB/5	6.71	5.84	4.35
BTS443P	BTS443PINCT-ND	Smart Highside Power Switch	TO-252-5-1	3.07	2.68	2.00
BTS443P	BTS443PINTR-ND	Smart Highside Power Switch	TO-252-5-1	3812.50/2,500		
BTS611L1	BTS611L1IN-ND	2-Channel Smart Highside Power Switch	TO-220AB/7	3.13	2.73	2.03
BTS621L1	BTS621L1IN-ND	2-Channel Smart Highside Power Switch	TO-220AB/7	3.76	3.28	2.44
BTS640S2-G	BTS640S2-GINCT-ND	Smart Sense Highside Power Switch	TO-263-7	3.57	3.11	2.32
BTS640S2-G	BTS640S2-GINTR-ND	Smart Sense Highside Power Switch	TO-263-7	1864.00/1,000		
BTS650P	BTS650PIN-ND	Smart Highside High Current Power Switch	TO-220AB/7	6.08	5.30	3.95
BTS660P	BTS660PIN-ND	Smart Highside High Current Power Switch	TO-220-7-3	6.69	5.83	4.34
BTS711L1	BTS711L1INCT-ND	4-Channel Smart Highside Power Switch	P-DSO-20-9	4.40	3.83	2.86
BTS711L1	BTS711L1INTR-ND	4-Channel Smart Highside Power Switch	P-DSO-20-9	2292.00/1,000		
BTS716G	BTS716GINCT-ND	4-Ch. Smart Highside Power Switch	P-DSO-20	3.82	3.33	2.48
BTS716G	BTS716GINTR-ND	4-Ch. Smart Highside Power Switch	P-DSO-20	1989.00/1,000		
IFX1117GSV	IFX1117GSVINCT-ND	Mono 1A Voltage Regulator ***NEW!***	SOT-223	1.21	.69	.56
IFX1117GSV	IFX1117GSVINTR-ND	Mono 1A Voltage Regulator ***NEW!***	SOT-223	1740.00/4,000		
TLE4267S	TLE4267SIN-ND	5V, Low-Drop Voltage Regulator	P-TO-220-7	3.27	1.91	1.79
TLE4270G	TLE4270GINCT-ND	5V, Low-Drop Fixed Voltage Reg.	P-TO263-5-1	3.17	2.91	2.59
TLE4270G	TLE4270GINTR-ND	5V, Low-Drop Fixed Voltage Reg.	P-TO263-5-1	1487.00/1,000		
TLE4271-2G	TLE4271-2GINCT-ND	5V, Low-Drop Fixed Voltage Reg.	P-TO263-7-1	3.40	3.12	2.78
TLE4271-2G	TLE4271-2GINTR-ND	5V, Low-Drop Fixed Voltage Reg.	P-TO263-7-1	1599.00/1,000		
TLE4274V50	TLE4274V50IN-ND	Low-Drop Voltage Regulator	P-TO220-3-1	2.10	1.18	1.05

Sensors

Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
KT210	KT210IN-ND	Silicon Temperature Sensor	TO-92 Mini	1.77	.98	.77
KT230	KT230INCT-ND	Silicon Temperature Sensor	SOT-23	.58	.51	.39
KT230	KT230INTR-ND	Silicon Temperature Sensor	SOT-23	663.00/3,000		
KTY135	KTY135INCT-ND	Silicon Temperature Sensor	SOT-23	.79	.69	.53
KTY135	KTY135INTR-ND	Silicon Temperature Sensor	SOT-23	663.00/3,000		
KTY136	KTY136INCT-ND	Silicon Temperature Sensor	SOT-23	.58	.51	.39
KTY136	KTY136INTR-ND	Silicon Temperature Sensor	SOT-23	663.00/3,000		
KTY216	KTY216IN-ND	Silicon Temperature Sensor	TO-92 Mini	1.10	.96	.74
KTY236	KTY236INCT-ND	Silicon Temperature Sensor	SOT-23	.58	.51	.39
KTY236	KTY236INTR-ND	Silicon Temperature Sensor	SOT-23	663.00/3,000		
TLE4906L	TLE4906LINCT-ND	High Precision Hall-Effect Switch ***NEW!***	SSO-3-2	1.24	.67	.58
TLE4906L	TLE4906LINTB-ND	High Precision Hall-Effect Switch ***NEW!***	SSO-3-2	926.00/2,000		
TLE4913	TLE4913INCT-ND	Low Power Hall Switch	SC-59-3-1	.74	.68	.61
TLE4913	TLE4913INTR-ND	Low Power Hall Switch	SC-59-3-1	1050.00/3,000		
TLE4935G	TLE4935GINCT-ND	Hall IC Switch for Magnetic Field Applications	SOT-89	1.09	1.00	.89
TLE4935G	TLE4935GINTR-ND	Hall IC Switch for Magnetic Field Applications	SOT-89	544.00/1,000		
TLE4945-2L	TLE4945-2LINTB-ND	Bipolar Hall IC Switch for Magnetic Field Applications	P-SSO-3-2	1120.27/2,000		
TLE4945-2L	TLE4945-2LINCT-ND	Bipolar Hall IC Switch for Magnetic Field Applications	P-SSO-3-2	1.16	1.07	.95
TLE4990	TLE4990INCT-ND	Prog. Linear Ratiometric Hall IC ***NEW!***	PG-SSO-4-1	5.27	3.51	3.15
TLE4990	TLE4990INTB-ND	Prog. Linear Ratiometric Hall IC ***NEW!***	PG-SSO-4-1	20280.00/8,000		

Specialized Integrated Circuits

Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
BGA612E6327	BGA612E6327INCT-ND	Silicon Germanium Broadband MMIC Amp ***NEW!***	SOT-343	1.62	.88	.77
BGA612E6327	BGA612E6327INTR-ND	Silicon Germanium Broadband MMIC Amp ***NEW!***	SOT-343	1845.00/3,000		
BGA614E6327	BGA614E6327INCT-ND	Silicon Germanium Broadband MMIC Amp ***NEW!***	SOT-343	1.62	.91	.79
BGA614E6327	BGA614E6327INTR-ND	Silicon Germanium Broadband MMIC Amp ***NEW!***	SOT-343	1896.00/3,000		
BGA616E6327	BGA616E6327INCT-ND	Silicon Germanium Broadband MMIC Amp ***NEW!***	SOT-343	1.70	.95	.83
BGA616E6327	BGA616E6327INTR-ND	Silicon Germanium Broadband MMIC Amp ***NEW!***	SOT-343	1977.00/3,000		
ICE2A165	ICE2A165IN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-8-6	1.83	1.59	1.23
ICE2A180Z	ICE2A180ZIN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-7-1	1.73	1.45	1.22
ICE2A265	ICE2A265IN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-8-6	1.74	1.45	1.22
ICE2A280Z	ICE2A280ZIN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-7-1	2.74	2.29	1.92
ICE2A365	ICE2A365IN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-8-6	2.56	2.14	1.80
ICE2A765P	ICE2A765PIN-ND	Off-Line SMPS Current Mode Controller	P-TO-220-6-3	4.26	3.71	2.77
ICE2A0565	ICE2A0565IN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-8-6	1.35	1.18	.91
ICE2B265	ICE2B265IN-ND	Off-Line SMPS Current Mode Cont.	P-Dip-8-6	1.74	1.45	1.22
ICE2B765P	ICE2B765PIN-ND	Off-Line SMPS Current Mode Controller	P-TO-220-6-3	4.26	3.71	2.77
PEB2075N-V13TR	PEB2075N-V13INCT-ND	ISDN D-Channel Exchange Controller (IDEC®)	P-LCC-44	24.42	21.80	15.26
PEB2075N-V13TR	PEB2075N-V13INTR-ND	ISDN D-Channel Exchange Controller (IDEC®)	P-LCC-44	5815.02/500		

Infineon Tech. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
PEB3265H-V13	PEB3265H-V13IN-ND	Dual Channel Subscriber Line Interface Codec Filter SLICOFI-2x	P-MQFP-64-1	13.58	9.63	8.81
PEB20256E-V21	PEB20256E-V21IN-ND	Multichannel Network Interface Controller for HDLC/PPP	P-BGA-388	221.51	181.77	169.56
PEB20320H-V34	PEB20320H-V34IN-ND	Multichannel Network Interface Controller for HDLC	P-MQFP-160-1	84.42	74.21	64.32
PEB20321H-V22	PEB20321H-V22IN-ND	Multichannel Network Interface Controller for HDLC with Extensions	P-MQFP-160-1	92.71	81.50	70.64
PEB20534H10-V21	PEB20534H10-V21IN-ND	DMA Supported Serial Communication Controller with 4 Channels	P-FQFP-208-7	82.80	72.80	63.09
PEB20534H52-V21	PEB20534H52-V21IN-ND	DMA Supported Serial Communication Controller with 4 Channels	P-FQFP-208-7	105.18	92.47	80.14
PEF3452H-V13	PEF3452H-V13IN-ND	Line Interface Unit for DS3, STS1 and E3 TE3-LIU™	P-MQFP-44-2	48.33	34.14	33.13
PEF22810T-V21TR	PEF22810T-V21INCT-ND	Standard, Very High Bit-Rate, DSL Chipset, Line Driver	P-DSO-8	1.62	1.32	1.23
PEF22810T-V21TR	PEF22810T-V21INTR-ND	Standard, Very High Bit-Rate, DSL Chipset, Line Driver	P-DSO-8	3270.00/2,500		
PMB2201R-V12TR	PMB2201RV12TRINCT-ND	2.5GHz Mixer DC and 0.8-1.5GHz Vector Modulator	P-TSSOP-24	4.80	4.40	3.92
PMB2313T-V15TR	PMB2313TV15TRINCT-ND	1.1GHz Prescaler Circuit	P-DSO-8	2.55	2.34	2.09
PMB2313T-V15TR	PMB2313TV15TRINTR-ND	1.1GHz Prescaler Circuit	P-DSO-8	3915.00/2,500		
PMB2314T-V15TR	PMB2314TV15TRINCT-ND	2.1GHz Prescaler Circuit	P-DSO-8	3.00	2.75	2.45
PMB2314T-V15TR	PMB2314TV15TRINTR-ND	2.1GHz Prescaler Circuit	P-DSO-8	3915.00/2,500		
PSB2186N-V11TR	PSB2186N-V11INCT-ND	ISDN Subscriber Access Controller for Terminals (ISAC®-S TE)	P-LCC-44	15.79	14.10	9.87
PXB4220E-V32	PXB4220E-V32IN-ND	Interworking Element for 8 E1/T1 Lines IWE8	P-BGA-256	110.78	105.61	84.40
PXB4220E-V33	PXB4220E-V33IN-ND	Interworking Element for 8 E1/T1 Lines IWE8	P-BGA-256	116.39	94.19	90.83
SAB82525N-V21TR	SAB82525N-V21INCT-ND	2-Ch. High Level Serial Comm. Controller Extended (HSCX)	P-LCC-44-1	29.19	26.07	20.33
SAB82525N-V21TR	SAB82525N-V21INTR-ND	2-Ch. High Level Serial Comm. Controller Extended (HSCX)	P-LCC-44-1	8018.50/500		
SAB82526N-V21	SAB82526N-V21IN-ND	1-Ch. High Level Serial Comm. Controller Extended (HSCX)	P-LCC-44-1	13.41	11.80	10.23
SAE800	SAE800IN-ND	Prog. Single/Dual/Triple Tone Gong	P-DIP-8-4	5.71	3.71	3.39
SAF82525N-V21	SAF82525N-V21IN-ND	2-Ch. High Level Serial Comm. Controller Extended	P-LCC-44-1	22.47	16.75	15.40
TCA505BGGEG	TCA505BGGEGINCT-ND	IC for Inductive Proximity Switches with Short Circuit Protection	P-DSO-16-1	5.56	4.16	3.34
TCA785	TCA785IN-ND	LSL Compatible Phase Control IC	P-DIP-16-1	6.78	4.51	4.04
TDA5100	TDA5100INCT-ND	868-870MHz ASK/FSK Transmitter	P-TSSOP-16	2.57	2.36	2.27
TDA5100	TDA5100INTR-ND	868-870MHz ASK/FSK Transmitter	P-TSSOP-16	3528.00/3,000		
TDA5101	TDA5101INCT-ND	311-317MHz ASK/FSK Transmitter	P-TSSOP-16	2.57	2.36	2.27
TDA5101	TDA5101INTR-ND	311-317MHz ASK/FSK Transmitter	P-TSSOP-16	3438.00/3,000		
TDA5103A	TDA5103AINCT-ND	344-347MHz ASK Transmitter	P-TSSOP-10	2.68	2.46	2.37
TDA5200	TDA5200INCT-ND	868-870MHz and 433-435MHz Low Power ASK Receiver	P-TSSOP-28-1	3.87	3.55	3.42
TDA5200	TDA5200INTR-ND	868-870MHz and 433-435MHz Low Power ASK Receiver	P-TSSOP-28-1	9672.00/3,000		
TDA5201	TDA5201INCT-ND	310 and 345MHz Low Power ASK Single Receiver	P-TSSOP-28-1	3.87	3.55	3.42
TDA5201	TDA5201INTR-ND	310 and 345MHz Low Power ASK Single Receiver	P-TSSOP-28-1	9672.00/3,000		
TDA5211	TDA5211INCT-ND	310-350MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	3.95	3.63	3.50
TDA5211	TDA5211INTR-ND	310-350MHz FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	9855.00/3,000		
TDA5212	TDA5212INCT-ND	910-920MHz Low Power FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	3.95	3.63	3.50
TDA5212	TDA5212INTR-ND	910-920MHz Low Power FSK/ASK Superheterodyne Receiver	P-TSSOP-28-1	9855.00/3,000		
TDA21201-B7	TDA21201-B7INCT-ND	Integrated Switch MOSFET Driver and MOSFET	TO-263-7-2	4.72	4.11	3.07
TDA21201-B7	TDA21201-B7INTR-ND	Integrated Switch MOSFET Driver and MOSFET	TO-263-7-2	2612.00/1,000		
TDA21201-P7	TDA21201-P7IN-ND	Integrated Switch MOSFET Driver and MOSFET	TO-220-7-3	5.57	3.25	3.04
TDA21201-S7	TDA21201-S7IN-ND	Integrated Switch MOSFET Driver and MOSFET	TO-220-7-230	5.57	3.25	3.04

ZiLOG COUNTERS/ TIMERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z84C3006FEC	269-3036-ND	6MHz, Z80 CMOS Counter/Timer Circuit	44-QFP	5.61	4.21	2.80
Z84C3006PEC	269-3037-ND	6MHz, Z80 CMOS Counter/Timer Circuit	28-Dip	5.61	4.21	2.80
Z84C3008PEC	269-3039-ND	8MHz, Z80 CMOS Counter/Timer Circuit	28-Dip	5.61	4.21	2.80
Z84C3008VEC	269-3040-ND	8MHz, Z80 CMOS Counter/Timer Circuit	44-PLCC	5.61	4.21	2.80
Z84C3010PEC	269-3042-ND	10MHz, Z80 CMOS Counter/Timer Circuit	28-Dip	5.61	4.21	2.80
Z84C3010VEC	269-3043-ND	10MHz, Z80 CMOS Counter/Timer Circuit	44-PLCC	5.61	4.21	2.80

ZiLOG MICROPROCESSORS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z8018006FSC	269-3004-ND	6MHz, Z180 CMOS Enhanced Microprocessor	80-QFP	10.68	8.01	5.47
Z8018006PEC	269-3005-ND	6MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	12.03	9.03	6.17
Z8018006PSC	269-3006-ND	6MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	10.11	7.59	5.18
Z8018006VEC	269-3007-ND	6MHz, Z180 CMOS Enhanced Microprocessor	68-PLCC	12.03	9.03	6.17
Z8018006VSC	269-3008-ND	6MHz, Z180 CMOS Enhanced Microprocessor	68-PLCC	10.11	7.59	5.18

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ZiLOG MICROPROCESSORS *(Continued)*

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z8018008FSC	269-3009-ND	8MHz, Z180 CMOS Enhanced Microprocessor	80-QFP	11.31	8.49	5.80
Z8018008PEC	269-3010-ND	8MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	12.75	9.57	6.54
Z8018008PSC	269-3011-ND	8MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	10.53	7.90	5.39
Z8018008VEC	269-3012-ND	8MHz, Z180 CMOS Enhanced Microprocessor	68-PLCC	14.55	10.92	7.47
Z8018008VSC	269-3013-ND	8MHz, Z180 CMOS Enhanced Microprocessor	68-PLCC	10.53	7.90	5.39
Z8018010FSC	269-3014-ND	10MHz, Z180 CMOS Enhanced Microprocessor	80-QFP	12.90	9.68	6.54
Z8018010PSC	269-3016-ND	10MHz, Z180 CMOS Enhanced Microprocessor	64-Dip	12.90	9.68	6.40
Z8018010VEC	269-3017-ND	10MHz, Z180 CMOS Microprocessor	68-PLCC	14.94	11.21	7.66
Z8018010VSC	269-3018-ND	10MHz, Z180 CMOS Microprocessor	68-PLCC	12.90	9.68	6.40
Z84C0006FEC	269-3019-ND	6MHz, Z80 CMOS Microprocessor	44-QFP	5.61	4.21	2.80
Z84C0006PEC	269-3020-ND	6MHz, Z80 CMOS Microprocessor	40-Dip	5.61	4.21	2.80
Z84C0006VEC	269-3021-ND	6MHz, Z80 CMOS Microprocessor	44-PLCC	5.61	4.21	2.80
Z84C0008FEC	269-3022-ND	8MHz, Z80 CMOS Microprocessor	44-QFP	5.61	4.21	2.80
Z84C0008PEC	269-3023-ND	8MHz, Z80 CMOS Microprocessor	40-Dip	5.61	4.21	2.80
Z84C0010FEC	269-3025-ND	10MHz, Z80 CMOS Microprocessor	44-QFP	5.61	4.21	2.80
Z84C0010PEC	269-3026-ND	10MHz, Z80 CMOS Microprocessor	40-Dip	5.61	4.21	2.80
Z84C0010VEC	269-3027-ND	10MHz, Z80 CMOS Microprocessor	44-PLCC	5.61	4.21	2.80
Z84C0020FEC	269-3028-ND	20MHz, Z80 CMOS Microprocessor	44-QFP	13.29	9.97	6.82
Z84C0020PEC	269-3029-ND	20MHz, Z80 CMOS Microprocessor	40-Dip	13.29	9.97	6.82
Z84C0020VEC	269-3030-ND	20MHz, Z80 CMOS Microprocessor	44-PLCC	13.29	9.97	6.82
Z8S18010FSC	269-3098-ND	10MHz, Static Z180 Microprocessor	80-QFP	10.68	8.01	5.47
Z8S18010PSC	269-3100-ND	10MHz, Static Z180 Microprocessor	64-Dip	10.11	7.59	5.18
Z8S18010VSC	269-3102-ND	10MHz, Static Z180 Microprocessor	68-PLCC	10.11	7.59	5.18
Z8S18020FEC1960	269-3104-ND	20MHz, Static Z180 Microprocessor, X-Temp.	80-QFP	17.01	12.76	8.73
Z8S18020FSC	269-3105-ND	20MHz, Static Z180 Microprocessor	80-QFP	14.04	10.53	7.21
Z8S18020PSC	269-3107-ND	20MHz, Static Z180 Microprocessor	64-Dip	14.04	10.53	7.21
Z8S18020PSC1960	269-3108-ND	20MHz, Static Z180 Microprocessor	64-Dip	14.04	10.53	7.21
Z8S18020VEC	269-3109-ND	20MHz, Static Z180 Microprocessor, X-Temp.	68-PLCC	17.01	12.76	8.73
Z8S18020VEC1960	269-3110-ND	20MHz, Static Z180 Microprocessor, X-Temp.	68-PLCC	17.01	12.76	8.73
Z8S18020VSC1960	269-3112-ND	20MHz, Static Z180 Microprocessor	68-PLCC	14.04	10.53	7.21
Z8S18020VSG	269-3863-ND	20MHz, Static Z180 Microprocessor* ***NEW!***	68-PLCC	14.04	10.53	7.21
Z8S18033VEC	269-3115-ND	33MHz, Static Z180 Microprocessor, X-Temp.	68-PLCC	18.66	14.00	9.57
Z8S18033VSC	269-3116-ND	33MHz, Static Z180 Microprocessor	68-PLCC	15.51	11.64	7.95

* ***RoHS Compliant***

ZiLOG PERIPHERAL CONTROLLERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z84C1506FEC	269-3031-ND	6MHz, Z80 Intelligent Peripheral Controller	100-QFP	16.17	12.13	8.29
Z84C1510AEC	269-3032-ND	10MHz, Z80 Intelligent Peripheral Controller	100-VQFP	16.17	12.13	8.29
Z84C1510FEC	269-3033-ND	10MHz, Z80 Intelligent Peripheral Controller	100-QFP	16.17	12.13	8.29
Z84C1516ASC	269-3034-ND	16MHz, Z80 Intelligent Peripheral Controller	100-VQFP	21.45	16.09	11.00
Z84C1516FSC	269-3035-ND	16MHz, Z80 Intelligent Peripheral Controller	100-QFP	21.03	15.78	10.79

ZiLOG SERIAL COMMUNICATION CONTROLLERS

Zilog Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
Z8523008PEC	269-3044-ND	8MHz, Enhanced Serial Comm. Controller, Ext. Temp	40-Dip	25.86	19.40	13.26
Z8523008PSC	269-3045-ND	8MHz, Enhanced Serial Comm. Controller	40-Dip	15.81	11.86	8.11
Z8523008VEC	269-3046-ND	8MHz, Enhanced Serial Comm. Controller, Ext. Temp	44-PLCC	22.83	17.13	11.71
Z8523008VSC	269-3047-ND	8MHz, Enhanced Serial Comm. Controller	44-PLCC	15.81	11.86	8.11
Z8523010PEC	269-3048-ND	10MHz, Enhanced Serial Comm. Controller XTemp	40-Dip	32.40	24.30	16.61
Z8523010PSC	269-3049-ND	10MHz, Enhanced Serial Comm. Controller	40-Dip	19.98	14.99	10.25
Z8523010VEC	269-3050-ND	10MHz, Enhanced Serial Comm. Controller XTemp	44-PLCC	32.40	24.30	16.61
Z8523010VSC	269-3051-ND	10MHz, Enhanced Serial Comm. Controller	44-PLCC	19.98	14.99	10.25
Z8523016PEC	269-3052-ND	16MHz, Enhanced Serial Comm. Controller XTemp	40-Dip	39.96	29.97	20.50
Z8523016PSC	269-3053-ND	16MHz, Enhanced Serial Comm. Controller	40-Dip	25.65	19.24	13.15
Z8523016VEC	269-3054-ND	16MHz, Enhanced Serial Comm. Controller XTemp	44-PLCC	39.96	29.97	20.50
Z8523016VSC	269-3055-ND	16MHz, Enhanced Serial Comm. Controller	44-PLCC	25.65	19.24	13.15
Z8523020VSC	269-3057-ND	20MHz, Enhanced Serial Comm. Controller	44-PLCC	33.84	25.38	17.36
Z85C3008PEC	269-3058-ND	8MHz, Z8500 CMOS Serial Comm. Controller	40-Dip	13.47	10.11	6.91
Z85C3008PSC	269-3059-ND	8MHz, Z8500 CMOS Serial Comm. Controller	40-Dip	9.00	6.75	4.62
Z85C3008VEC	269-3060-ND	8MHz, Z8500 CMOS Serial Comm. Controller	44-PLCC	13.47	10.11	6.91
Z85C3008VSC	269-3061-ND	8MHz, Z8500 CMOS Serial Comm. Controller	44-PLCC	9.00	6.75	4.62
Z85C3010PEC	269-3062-ND	10MHz, Z8500 CMOS Serial Comm. Controller	40-Dip	15.33	11.50	7.85
Z85C3010PSC	269-3063-ND	10MHz, Z8500 CMOS Serial Comm. Controller	40-Dip	10.26	7.70	5.26
Z85C3010VEC	269-3064-ND	10MHz, Z8500 CMOS Serial Comm. Controller	44-PLCC	15.33	11.50	7.85
Z85C3010VSC	269-3065-ND	10MHz, Z8500 CMOS Serial Comm. Controller	44-PLCC	10.26	7.70	5.26
Z85C3016PSC	269-3066-ND	16MHz, Z8500 CMOS Serial Comm. Controller	40-Dip	15.00	11.25	7.69
Z85C3016VSC	269-3067-ND	16MHz, Z8500 CMOS Serial Comm. Controller	44-PLCC	15.00	11.25	7.69

PHILIPS AMPLIFIERS

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SA5209D	568-1196-5-ND	850MHz Wideband VGA	16-SOIC	12.66	11.40	10.11
SA5212AD	568-1198-5-ND	140MHz Transimpedance Amp	8-SOIC	6.00	4.80	4.05
TDA1013BU	568-1125-5-ND	4W Audio Power Amp	9-SIL	1.20	1.01	.81
TDA1308T/N2	568-2090-5-ND	Class AB Stereo Headphone Driver	8-SOIC	.90	.75	.60
TDA1516BQU	568-1127-5-ND	24W BTL or 2x12W Stereo Car Radio Power Amp	13-SIL	3.59	2.87	2.24
TDA1517PN	568-1128-5-ND	2x6W Stereo Power Amp	18-HDip	1.46	1.22	.98
TDA1519BU	568-1129-5-ND	12W BTL or 2x6W Stereo Car Radio Power Amp	9-SIL	2.55	2.05	1.59
TDA1519CU	568-1130-5-ND	22W BTL or 2x11W Stereo Power Amp	9-SIL	3.59	2.87	2.24
TDA1524AN	568-1131-5-ND	Stereo-Tone/Volume Control Circuit	18-DIL	3.08	2.47	1.92
TDA1554QU	568-1132-5-ND	4x11W Single Ended or 2x22W Power Amp	17-SIL	2.76	2.22	1.72
TDA1560QU	568-1133-5-ND	40W Car Radio High Power Amp	17-DIL	7.91	6.33	5.35
TDA1562QU	568-1134-5-ND	70W High Efficiency Power Amp	17-DIL	8.59	7.74	6.86
TDA2611AU	568-1135-5-ND	5W Audio Power Amp	9-SIL	.99	.83	.67
TDA5051ATD	568-1136-5-ND	Home Automation Modem	16-SOIC	4.39	3.51	2.73
TDA7050TD	568-1137-5-ND	Low Voltage Mono/Stereo Power Amp	8-SOIC	.91	.76	.61
TDA7052AN	568-1138-5-ND	1W BTL Mono Audio Amp	8-Dip	1.04	.87	.69
TDA7052ATD-T	568-1139-1-ND	1W BTL Mono Audio Amp	8-SOIC	1.04	.87	.69
TDA7052ATD-T	568-1139-2-ND	1W BTL Mono Audio Amp	8-SOIC	1121.25/2,500		
TDA7052N	568-1140-5-ND	1W BTL Mono Audio Amp	8-Dip	.91	.76	.61
TDA7056AU	568-1141-5-ND	5W BTL Mono Audio Output Amp	9-SIL	1.30	1.09	.87
TDA7056BU	568-1142-5-ND	5W BTL Mono Audio Amp	9-SIL	1.38	1.11	.83
TDA7057AQU	568-1143-5-ND	2x8W Stereo BTL Audio Output Amp	13-DIL	1.76	1.41	1.06
TDA8425N	568-1144-5-ND	Hi-Fi Stereo Audio Processor	20-Dip	8.00	6.40	5.40
TDA8542TSDK-T	568-2379-1-ND	2x0.7W BTL Audio Amp ***NEW!***	20-SSOP	2.57	2.06	1.60
TDA8542TSDK-T	568-2379-2-ND	2x0.7W BTL Audio Amp ***NEW!***	20-SSOP	3591.00/2,500		
TDA8543TD-T	568-2380-1-ND	2W BTL Audio Amp ***NEW!***	16-SOIC	2.36	1.89	1.47
TDA8543TD-T	568-2380-2-ND	2W BTL Audio Amp ***NEW!***	16-SOIC	3307.50/2,500		
TDA8547TSDK-T	568-2381-1-ND	2x0.7W BTL Audio Amp ***NEW!***	20-SSOP	2.97	2.38	1.85
TDA8547TSDK-T	568-2381-2-ND	2x0.7W BTL Audio Amp ***NEW!***	20-SSOP	4158.00/2,500		
TDA8563Q10U	568-1145-5-ND	2x40W/2-Ohm Stereo BTL Car Radio Power Amp	13-DIL	5.40	4.32	3.65
TDA8567QU	568-1146-5-ND	4x25W BTL Quad Car Radio Power Amp	23-DIL	8.70	6.96	5.88
TDA8920BTH-T	568-2060-1-ND	2x100W Class-D Power Amp	24-HSOP	6.21	4.97	4.20
TDA8920BTH-T	568-2060-2-ND	2x100W Class-D Power Amp	24-HSOP	1971.68/500		
TDA8943SFU	568-1147-5-ND	6W Mono BTL Audio Amp	9-SIL	1.42	1.19	.95

PHILIPS CLOCK MANAGEMENT

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCK210BS-T	568-2032-1-ND	Low Voltage Dual 1:5 Diff. ECL/PECL Clock Driver	32-HVQFN	5.00	4.00	3.38
PCK210BS-T	568-2032-2-ND	Low Voltage Dual 1:5 Diff. ECL/PECL Clock Driver	32-HVQFN	18300.00/6,000		
PCK953BD/G-F	568-2033-1-ND	20-125MHz PECL Input / 9 CMOS Output 3.3V PLL Clock Driver	32-LQFP	4.28	3.42	2.66
PCK953BD/G-F	568-2033-2-ND	20-125MHz PECL Input / 9 CMOS Output 3.3V PLL Clock Driver	32-LQFP	4845.00/2,000		

PHILIPS DATA COMMUNICATIONS

RoHS Compliant

USB

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ISP1102BS-T	568-1876-1-ND	Advanced 12-Bit USB Transceiver	14-HVQFN	1.35	1.13	.90
ISP1102BS-T	568-1876-2-ND	Advanced 12-Bit USB Transceiver	14-HVQFN	3442.50/6,000		
ISP1105BS-T	568-1877-1-ND	Advanced 12M-Bit Transceiver	16-HVQFN	1.35	1.13	.90
ISP1105BS-T	568-1877-2-ND	Advanced 12M-Bit Transceiver	16-HVQFN	3442.50/6,000		
ISP1160BD01-T	568-1878-1-ND	Embedded 12M-Bit USB Host Controller	64-LQFP	5.50	4.40	3.72
ISP1160BD01-T	568-1878-2-ND	Embedded 12M-Bit USB Host Controller	64-LQFP	5156.25/1,500		
ISP1160BM01-T	568-1879-1-ND	Embedded 12M-Bit USB Host Controller	64-LQFP	5.50	4.40	3.72
ISP1160BM01-T	568-1879-2-ND	Embedded 12M-Bit USB Host Controller	64-LQFP	6875.00/2,000		
ISP1161A1BD	568-1162-ND	USB Single-Chip Host/Device Controller	64-LQFP	7.00	5.60	4.73
ISP1161A1BM-S	568-1164-ND	USB Single-Chip Host/Device Controller	64-LQFP	7.00	5.60	4.73
ISP1161ABD	568-1165-ND	Full Speed USB Single-Chip Host/Device Controller	64-LQFP	7.00	5.60	4.73
ISP1181ADGG	568-1001-5-ND	Full Speed USB Controller	48-TSSOP	4.12	3.30	2.57
ISP1181BDGG	568-1002-5-ND	Full Speed USB Controller	48-TSSOP	4.12	3.30	2.57
ISP1183BS-T	568-1880-1-ND	Low Power 12M-Bit USB Interface Device with DMA	32-HVQFN	3.89	3.12	2.43
ISP1183BS-T	568-1880-2-ND	Low Power 12M-Bit USB Interface Device with DMA	32-HVQFN	12975.00/6,000		
ISP1301BS	568-1166-ND	USB On-the-Go Transceiver	24-HVQFN	2.38	1.90	1.43
ISP1301BS-T	568-1881-1-ND	USB On-the-Go Transceiver	24-HVQFN	2.38	1.90	1.43
ISP1301BS-T	568-1881-2-ND	USB On-the-Go Transceiver	24-HVQFN	7125.00/6,000		
ISP1362BD	568-1167-ND	Single-Chip USB On-the-Go Controller	64-LQFP	7.10	5.68	4.80
ISP1362BD-S	568-1219-ND	Single-Chip USB On-the-Go Controller	64-LQFP	7.10	5.68	4.80
ISP1362EE-T	568-1882-1-ND	12M-Bit USB On-the-Go Controller	64-TFBGA	7.60	6.08	5.13
ISP1362EE-T	568-1882-2-ND	12M-Bit USB On-the-Go Controller	64-TFBGA	11780.00/2,500		
ISP1520BD-S	568-1169-ND	High Speed USB Hub Controller	64-LQFP	5.29	4.23	3.29
ISP1520BD-T	568-1883-1-ND	High Speed 480M-Bit Hub Controller	64-LQFP	5.29	4.23	3.29
ISP1520BD-T	568-1883-2-ND	High Speed 480M-Bit Hub Controller	64-LQFP	4494.38/1,500		
ISP1521BE	568-1170-ND	High Speed USB Hub Controller	80-LQFP	5.40	4.32	3.36
ISP1521BE-T	568-1884-1-ND	High Speed 480M-Bit Hub Controller	80-LQFP	5.40	4.32	3.36
ISP1521BE-T	568-1884-2-ND	High Speed 480M-Bit Hub Controller	80-LQFP	3060.00/1,000		
ISP1561BM	568-1171-ND	High Speed USB PCI Host Controller	128-LQFP	6.50	5.20	4.39
ISP1581BD	568-1172-ND	High-Speed USB Peripheral Controller	64-LQFP	7.70	6.16	5.20
ISP1582BS-T	568-1885-1-ND	High Speed 480M-Bit Peripheral Controller	56-HVQFN	5.40	4.32	3.36
ISP1582BS-T	568-1885-2-ND	High Speed 480M-Bit Peripheral Controller	56-HVQFN	6120.00/2,000		
ISP1583BS-T	568-1886-1-ND	High Speed 480M-Bit Peripheral Controller	64-HVQFN	5.70	4.56	3.85
ISP1583BS-T	568-1886-2-ND	High Speed 480M-Bit Peripheral Controller	64-HVQFN	3562.50/1,000		
ISP1760BE-T	568-1887-1-ND	High Speed 480M-Bit Host Controller	128-LQFP	7.70	6.16	5.20
ISP1760BE-T	568-1887-2-ND	High Speed 480M-Bit Host Controller	128-LQFP	4812.50/1,000		
ISP1761BE-T	568-1888-1-ND	High Speed 480M-Bit On-the-Go Controller	128-LQFP	8.70	6.96	5.88

(Continued)

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PHILIPS DATA COMMUNICATIONS *(Continued)* *RoHS Compliant*

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ISP1761BE-T	568-1888-2-ND	High Speed 480M-Bit On-the-Go Controller	128-LQFP	5437.50/1,000		
PDIUSBD12D	568-1091-5-ND	USB Interface Device w/Parallel Bus	28-SOIC	2.77	2.22	1.73
PDIUSBD12PWDH-T	568-1092-1-ND	USB Interface Device w/Parallel Bus	28-TSSOP	2.77	2.22	1.73
PDIUSBD12PWDH-T	568-1092-2-ND	USB Interface Device w/Parallel Bus	28-TSSOP	3874.50/2,500		

PHILIPS DATA CONVERSIONS *RoHS Compliant*

A/D and D/A Converters

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCF8591PN	568-1087-5-ND	8-Bit A/D and D/A Converter	16-Dip	3.71	2.97	2.31
PCF8591TD-T	568-1088-1-ND	8-Bit A/D and D/A Converter	16-SOIC	3.09	2.48	1.93
PCF8591TD-T	568-1088-2-ND	8-Bit A/D and D/A Converter	16-SOIC	1753.13/1,000		

Analog to Digital Converters

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TDA8754HL14BE-S	568-2057-ND	Triple 8-Bit Video ADC up to 270 Msamples	144-LQFP	14.16	12.75	11.31
TDA8754HL17BE-S	568-2058-ND	Triple 8-Bit Video ADC up to 270 Msamples	144-LQFP	16.65	15.54	14.43
TDA8754HL27BE-S	568-2059-ND	Triple 8-Bit Video ADC up to 270 Msamples	144-LQFP	46.50	43.40	40.30

Digital to Analog Converter

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
TDA8771AB	568-1217-ND	Triple 8-Bit Video D/A Converter	44-QFP	7.60	6.08	5.13

Video Encoder / Decoder

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SAA6752HS04BF	568-1305-ND	MPEG-2 Video/MPEG Audio Encoder	208-SQFP	30.00	28.00	26.00
SAA7103HB	568-1306-ND	Digital Video Encoder	44-QFP	16.05	14.98	13.91
SAA7105HBG	568-1307-ND	Digital Video Encoder	64-QFP	18.00	16.80	15.60
SAA7111AHBG	568-1308-ND	Enhanced Video Input Processor	64-QFP	15.83	14.25	12.64
SAA7111AHZBD	568-1309-ND	Enhanced Video Input Processor	64-LQFP	15.83	14.25	12.64
SAA7113HB	568-1310-ND	9-Bit Video Input Processor	44-QFP	14.66	13.20	11.71
SAA7114HBE	568-1311-ND	PAL/NTSC/SECAM Video Decoder	100-LQFP	18.00	16.80	15.60
SAA7115HLBE	568-1312-ND	PAL/NTSC/SECAM Video Decoder	100-LQFP	22.50	21.00	19.50
SAA7118EEB	568-1313-ND	Multistandard Video Decoder	156-BGA	26.51	24.74	22.98
SAA7118HBB	568-1314-ND	Multistandard Video Decoder	160-QFP	26.51	24.74	22.98
SAA7121HB	568-1315-ND	Digital Video Encoder	44-QFP	7.58	6.07	5.12
SAA7121H/V2	568-1185-1-ND	Digital Video Encoder	44-QFN	7.58	6.07	5.12
SAA7121H/V2	568-1185-2-ND	Digital Video Encoder	44-QFN	7106.25/1,500		
SAA7129AHB	568-1316-ND	Digital Video Encoder	44-QFP	14.16	12.75	11.31
SAA7129HB	568-1317-ND	Digital Video Encoder	44-QFP	14.16	12.75	11.31
SAA7146AHBB	568-1318-ND	Video SPCI Bridge	160-QFP	29.64	27.67	25.69

PHILIPS DATA TRANSMISSION *RoHS Compliant*

CAN

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA82C250N	568-1020-5-ND	CAN Controller Interface	8-Dip	1.95	1.56	1.17
PCA82C250TD-T	568-1021-1-ND	CAN Controller Interface	8-SOIC	1.95	1.56	1.17
PCA82C250TD-T	568-1021-2-ND	CAN Controller Interface	8-SOIC	2496.00/2,500		
PCA82C251N	568-1022-5-ND	CAN Transceiver for 24V System	8-Dip	1.95	1.56	1.17
PCA82C251TD-T	568-1023-1-ND	CAN Transceiver for 24V System	8-SOIC	1.95	1.56	1.17
PCA82C251TD-T	568-1023-2-ND	CAN Transceiver for 24V System	8-SOIC	2496.00/2,500		
SJA1000N	568-1122-5-ND	Stand-Alone CAN Controller	28-Dip	5.00	4.00	3.38
SJA1000TD-T	568-1123-1-ND	Stand-Alone CAN Controller	28-SOIC	5.00	4.00	3.38
SJA1000TD-T	568-1123-2-ND	Stand-Alone CAN Controller	28-SOIC	3125.00/1,000		
TJA1040TD-T	568-1149-1-ND	High Speed CAN Transceiver	8-SOIC	1.79	1.43	1.08
TJA1040TD-T	568-1149-2-ND	High Speed CAN Transceiver	8-SOIC	2285.44/2,500		
TJA1041TD	568-1150-5-ND	High Speed CAN Transceiver	14-SOIC	2.16	1.73	1.30
TJA1050TD-T	568-1151-1-ND	High Speed CAN Transceiver	8-SOIC	1.32	1.06	.80
TJA1050TD-T	568-1151-2-ND	High Speed CAN Transceiver	8-SOIC	1695.68/2,500		
TJA1054ATD-T	568-1152-1-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2.00	1.60	1.20
TJA1054ATD-T	568-1152-2-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2560.00/2,500		
TJA1054TD	568-1153-5-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2.00	1.60	1.20
TJA1054TD-T	568-2061-1-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2.00	1.60	1.20
TJA1054TD-T	568-2061-2-ND	Fault-Tolerant CAN Transceiver	14-SOIC	2560.00/2,500		

I^{2}C

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
P82B715PN	568-1006-5-ND	I^{2}C Bus Extender	8-Dip	3.38	2.70	2.10
P82B715TD-T	568-1007-1-ND	I^{2}C Bus Extender	8-SOIC	3.38	2.70	2.10
P82B715TD-T	568-1007-2-ND	I^{2}C Bus Extender	8-SOIC	4725.00/2,500		
P82B96PN	568-1008-5-ND	Dual Bi-Directional Bus Buffer	8-Dip	3.15	2.52	1.96
P82B96TD-T	568-1009-1-ND	Dual Bi-Directional Bus Buffer	8-SOIC	3.15	2.52	1.96
P82B96TD-T	568-1009-2-ND	Dual Bi-Directional Bus Buffer	8-SOIC	4410.00/2,500		
PCA9500D	568-1024-5-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	16-SOIC	2.00	1.60	1.20
PCA9500PW	568-1025-5-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	16-TSSOP	2.00	1.60	1.20
PCA9501PW	568-1026-5-ND	8-Bit I^{2}C/SMBus I/O Port with 2K-Bit EEPROM	20-TSSOP	2.13	1.70	1.28
PCA9510D-T	568-1903-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.52	2.02	1.57
PCA9510D-T	568-1903-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	3528.00/2,500		
PCA9510DP-T	568-1904-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2.52	2.02	1.57
PCA9510DP-T	568-1904-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	3528.00/2,500		
PCA9511D	568-1027-5-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	1.85	1.48	1.11
PCA9511D-T	568-1905-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	1.85	1.48	1.11
PCA9511D-T	568-1905-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2368.00/2,500		
PCA9511DP-T	568-1028-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	1.85	1.48	1.11
PCA9511DP-T	568-1028-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2368.00/2,500		
PCA9512D-T	568-1906-1-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-SOIC	1.85	1.48	1.11
PCA9512D-T	568-1906-2-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-SOIC	2368.00/2,500		
PCA9512DP-T	568-1907-1-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-TSSOP	1.85	1.48	1.11
PCA9512DP-T	568-1907-2-ND	Level Shifting Hot Swap I^{2}C/SMBus Buffer	8-TSSOP	2368.00/2,500		
PCA9513D	568-1029-5-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.25	1.80	1.40
PCA9513D-T	568-1908-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.25	1.80	1.40
PCA9513D-T	568-1908-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	3150.00/2,500		
PCA9513DP-T	568-1909-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2.25	1.80	1.40
PCA9513DP-T	568-1909-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	3150.00/2,500		
PCA9514D	568-1030-5-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.25	1.80	1.40
PCA9514D-T	568-1910-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	2.25	1.80	1.40
PCA9514D-T	568-1910-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-SOIC	3150.00/2,500		
PCA9514DP-T	568-1911-1-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	2.25	1.80	1.40
PCA9514DP-T	568-1911-2-ND	Hot Swap I^{2}C/SMBus Bus Buffer	8-TSSOP	3150.00/2,500		
PCA9515AD	568-1753-5-ND	I^{2}C Bus Repeater	8-SOIC	1.50	1.20	.90
PCA9515AD-T	568-1031-1-ND	I^{2}C Bus Repeater	8-SOIC	1.50	1.20	.90
PCA9515AD-T	568-1031-2-ND	I^{2}C Bus Repeater	8-SOIC	1920.00/2,500		
PCA9515AD/G-T	568-1824-1-ND	I^{2}C Bus Repeater	8-SOIC	1.50	1.20	.90
PCA9515AD/G-T	568-1824-2-ND	I^{2}C Bus Repeater	8-SOIC	1920.00/2,500		
PCA9515ADP-T	568-1032-1-ND	I^{2}C Bus Repeater	8-TSSOP	1.50	1.20	.90
PCA9515ADP-T	568-1032-2-ND	I^{2}C Bus Repeater	8-TSSOP	1920.00/2,500		
PCA9515ADP/G-T	568-1825-1-ND	I^{2}C Bus Repeater	8-TSSOP	1.50	1.20	.90
PCA9515ADP/G-T	568-1825-2-ND	I^{2}C Bus Repeater	8-TSSOP	1920.00/2,500		
PCA9516AD	568-1035-5-ND	5-Channel I^{2}C Hub	16-SOIC	1.75	1.40	1.05
PCA9516AD-T	568-1826-1-ND	5-Channel I^{2}C Hub	16-SOIC	1.75	1.40	1.05
PCA9516AD-T	568-1826-2-ND	5-Channel I^{2}C Hub	16-SOIC	2240.00/2,500		
PCA9516APW	568-1036-5-ND	5-Channel I^{2}C Hub	16-TSSOP	1.75	1.40	1.05
PCA9516APW-T	568-1827-1-ND	5-Channel I^{2}C Hub	16-TSSOP	1.75	1.40	1.05
PCA9516APW-T	568-1827-2-ND	5-Channel I2C Hub	16-TSSOP	2240.00/2,500		
PCA9517D-T	568-1828-1-ND	Level Translating I^{2}C Bus Repeater	8-SOIC	1.50	1.20	.90
PCA9517D-T	568-1828-2-ND	Level Translating I^{2}C Bus Repeater	8-SOIC	1920.00/2,500		
PCA9517DP-T	568-1829-1-ND	Level Translating I^{2}C Bus Repeater	8-TSSOP	1.50	1.20	.90
PCA9517DP-T	568-1829-2-ND	Level Translating I^{2}C Bus Repeater	8-TSSOP	1920.00/2,500		
PCA9518PW	568-1038-5-ND	Expandable 5-Channel I^{2}C Hub	20-TSSOP	2.25	1.80	1.35
PCA9530D-T	568-1830-1-ND	2-Bit I^{2}C LED Dimmer	8-SOIC	1.38	1.10	.83
PCA9530D-T	568-1830-2-ND	2-Bit I^{2}C LED Dimmer	8-SOIC	1760.00/2,500		
PCA9530DP-T	568-1831-1-ND	2-Bit I^{2}C LED Dimmer	8-TSSOP	1.38	1.10	.83
PCA9530DP-T	568-1831-2-ND	2-Bit I^{2}C LED Dimmer	8-TSSOP	1760.00/2,500		
PCA9534BS-T	568-1832-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	1.65	1.32	.99
PCA9534BS-T	568-1832-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	4950.00/6,000		
PCA9534D-T	568-1833-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-SOIC	1.65	1.32	.99
PCA9534D-T	568-1833-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-SOIC	858.00/1,000		
PCA9534PW-T	568-1834-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-TSSOP	1.65	1.32	.99
PCA9534PW-T	568-1834-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-TSSOP	2112.00/2,500		
PCA9535PW	568-1041-5-ND	16-Bit I^{2}C/SMBus I/O Port	24-TSSOP	1.55	1.24	.93
PCA9536D-T	568-1835-1-ND	4-Bit I^{2}C/SMBus I/O Port	8-SOIC	1.26	1.05	.84
PCA9536D-T	568-1835-2-ND	4-Bit I^{2}C/SMBus I/O Port	8-SOIC	1365.00/2,500		
PCA9536DP-T	568-1836-1-ND	4-Bit I^{2}C/SMBus I/O Port	8-TSSOP	1.26	1.05	.84
PCA9536DP-T	568-1836-2-ND	4-Bit I^{2}C/SMBus I/O Port	8-TSSOP	1365.00/2,500		
PCA9537DP-T	568-1837-1-ND	4-Bit I^{2}C/SMBus I/O Port	10-TSSOP	1.35	1.13	.90
PCA9537DP-T	568-1837-2-ND	4-Bit I^{2}C/SMBus I/O Port	10-TSSOP	1462.50/2,500		
PCA9538BS-T	568-1838-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	1.65	1.32	.99
PCA9538BS-T	568-1838-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-HVQFN	4950.00/6,000		
PCA9538D-T	568-1839-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-SOIC	1.65	1.32	.99
PCA9538D-T	568-1839-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-SOIC	858.00/1,000		
PCA9538PW-T	568-1840-1-ND	8-Bit I^{2}C/SMBus I/O Port	16-TSSOP	1.65	1.32	.99
PCA9538PW-T	568-1840-2-ND	8-Bit I^{2}C/SMBus I/O Port	16-TSSOP	2112.00/2,500		
PCA9539BS-T	568-1841-1-ND	16-Bit I^{2}C/SMBus I/O Port	24-HVQFN	1.55	1.24	.93
PCA9539BS-T	568-1841-2-ND	16-Bit I^{2}C/SMBus I/O Port	24-HVQFN	4650.00/6,000		
PCA9539D-T	568-1842-1-ND	16-Bit I^{2}C/SMBus I/O Port	24-SOIC	1.55	1.24	.93
PCA9539D-T	568-1842-2-ND	16-Bit I^{2}C/SMBus I/O Port	24-SOIC	806.00/1,000		
PCA9539PW-T	568-1843-1-ND	16-Bit I^{2}C/SMBus I/O Port	24-TSSOP	1.55	1.24	.93
PCA9539PW-T	568-1843-2-ND	16-Bit I^{2}C/SMBus I/O Port	24-TSSOP	1984.00/2,500		
PCA9540BD	568-1042-5-ND	2-Channel I^{2}C Mux	8-SOIC	1.41	1.18	.94
PCA9540BD-T	568-1844-1-ND	2-Channel I^{2}C Mux	8-SOIC	1.41	1.18	.94
PCA9540BD-T	568-1844-2-ND	2-Channel I^{2}C Mux	8-SOIC	1527.50/2,500		
PCA9540BDP-T	568-1845-1-ND	2-Channel I^{2}C Mux	8-TSSOP	1.41	1.18	.94
PCA9540BDP-T	568-1845-2-ND	2-Channel I^{2}C Mux	8-TSSOP	1527.50/2,500		
PCA9541BS/01-T	568-1846-1-ND	2-to-1 I^{2}C Master Selector	16-HVQFN	2.13	1.70	1.28
PCA9541BS/01-T	568-1846-2-ND	2-to-1 I^{2}C Master Selector	16-HVQFN	6375.00/6,000		
PCA9541BS/02-T	568-1847-1-ND	2-to-1 I^{2}C Master Selector	16-HVQFN	2.13	1.70	1.28
PCA9541BS/02-T	568-1847-2-ND	2-to-1 I^{2}C Master Selector	16-HVQFN	6375.00/6,000		
PCA9541BS/03-T	568-1848-1-ND	2-to-1 I^{2}C Master Selector	16-HVQFN	2.13	1.70	1.28
PCA9541BS/03-T	568-1848-2-ND	2-to-1 I^{2}C Master Selector	16-HVQFN	6375.00/6,000		
PCA9541D/01-T	568-1849-1-ND	2-to-1 I^{2}C Master Selector	16-SOIC	2.13	1.70	1.28
PCA9541D/01-T	568-1849-2-ND	2-to-1 I^{2}C Master Selector	16-SOIC	2720.00/2,500		
PCA9541D/02-T	568-1850-1-ND	2-to-1 I^{2}C Master Selector	16-SOIC	2.13	1.70	1.28
PCA9541D/02-T	568-1850-2-ND	2-to-1 I^{2}C Master Selector	16-SOIC	2720.00/2,500		
PCA9541D/03-T	568-1851-1-ND	2-to-1 I^{2}C Master Selector	16-SOIC	2.13	1.70	1.28
PCA9541D/03-T	568-1851-2-ND	2-to-1 I^{2}C Master Selector	16-SOIC	2720.00/2,500		
PCA9541PW/01	568-1043-5-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	2.13	1.70	1.28
PCA9541PW/01-T	568-1852-1-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	2.13	1.70	1.28
PCA9541PW/01-T	568-1852-2-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	2720.00/2,500		
PCA9541PW/02-T	568-1853-1-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	2.13	1.70	1.28
PCA9541PW/02-T	568-1853-2-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	2720.00/2,500		
PCA9541PW/03	568-1044-5-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	2.13	1.70	1.28
PCA9541PW/03-T	568-1854-1-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	2.13	1.70	1.28
PCA9541PW/03-T	568-1854-2-ND	2-to-1 I^{2}C Master Selector	16-TSSOP	2720.00/2,500		
PCA9542AD-T	568-1855-1-ND	2-Channel I^{2}C Mux	14-SOIC	1.58	1.26	.95
PCA9542AD-T	568-1855-2-ND	2-Channel I^{2}C Mux	14-SOIC	2016.00/2,500		
PCA9542APW-T	568-1856-1-ND	2-Channel I^{2}C Mux	14-TSSOP	1.58	1.26	.95
PCA9542APW-T	568-1856-2-ND	2-Channel I^{2}C Mux	14-TSSOP	2016.00/2,500		
PCA9543AD-T	568-1857-1-ND	2-Channel I^{2}C Switch	14-SOIC	1.58	1.26	.95
PCA9543AD-T	568-1857-2-ND	2-Channel I^{2}C Switch	14-SOIC	2016.00/2,500		
PCA9543APW-T	568-1858-1-ND	2-Channel I^{2}C Switch	14-TSSOP	1.58	1.26	.95
PCA9543APW-T	568-1858-2-ND	2-Channel I^{2}C Switch	14-TSSOP	2016.00/2,500		
PCA9544ABS-T	568-1859-1-ND	4-Channel I^{2}C Mux	20-HVQFN	1.35	1.08	.81
PCA9544ABS-T	568-1859-2-ND	4-Channel I^{2}C Mux	20-HVQFN	4050.00/6,000		
PCA9544AD-T	568-1860-1-ND	4-Channel I^{2}C Mux	20-SOIC	1.35	1.08	.81
PCA9544AD-T	568-1860-2-ND	4-Channel I^{2}C Mux	20-SOIC	1404.00/2,000		
PCA9544APW	568-1045-5-ND	4-Channel I^{2}C Mux	20-TSSOP	1.35	1.08	.81
PCA9544APW-T	568-1861-1-ND	4-Channel I^{2}C Mux	20-TSSOP	1.35	1.08	.81
PCA9544APW-T	568-1861-2-ND	4-Channel I^{2}C Mux	20-TSSOP	1728.00/2,500		
PCA9544APW/G-T	568-1862-1-ND	4-Channel I^{2}C Mux	20-TSSOP	1.86	1.49	1.12
PCA9544APW/G-T	568-1862-2-ND	4-Channel I^{2}C Mux	20-TSSOP	2374.40/2,500		
PCA9545ABS-T	568-1863-1-ND	4-Channel I^{2}C Switch	20-HVQFN	1.50	1.20	.90
PCA9545ABS-T	568-1863-2-ND	4-Channel I^{2}C Switch	20-HVQFN	4500.00/6,000		
PCA9545AD-T	568-1864-1-ND	4-Channel I^{2}C Switch	20-SOIC	1.50	1.20	.90
PCA9545AD-T	568-1864-2-ND	4-Channel I^{2}C Switch	20-SOIC	1560.00/2,000		
PCA9545APW-T	568-1865-1-ND	4-Channel I^{2}C Switch	20-TSSOP	1.50	1.20	.90

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PHILIPS DATA TRANSMISSION *(Continued)*
RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA9545APW-T	568-1865-2-ND	4-Channel I^{2}C Switch	20-TSSOP	1920.00/2,500		
PCA9546AD-T	568-2022-1-ND	4-Channel I^{2}C Switch with Reset	16-SOIC	1.47	1.23	.98
PCA9546AD-T	568-2022-2-ND	4-Ch. I^{2}C Switch with Reset	16-SOIC	1592.50/2,500		
PCA9546APW-T	568-2023-1-ND	4-Ch. I^{2}C Switch with Reset	16-TSSOP	1.47	1.23	.98
PCA9546APW-T	568-2023-2-ND	4-Ch. I^{2}C Switch with Reset	16-TSSOP	1592.50/2,500		
PCA9564D	568-1062-5-ND	Parallel Bus to I^{2}C Bus Controller	20-SOIC	2.81	2.25	1.75
PCA9564N	568-2028-5-ND	Parallel Bus to I^{2}C Bus Controller	20-Dip	3.04	2.43	1.89
PCA9564PW	568-1063-5-ND	Parallel Bus to I^{2}C Bus Controller	20-TSSOP	2.81	2.25	1.75
PCF8584TD-T	568-1086-1-ND	I^{2}C Bus Controller	20-SOIC	3.34	2.68	2.08
PCF8584TD-T	568-1086-2-ND	I^{2}C Bus Controller	20-SOIC	3786.75/2,000		

IEEE 1394

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
PDI1394L40BE-S	568-1176-ND	1394 Enhanced AV Link Layer Controller	144-LQFP	7.40	5.92	5.00

LVDS

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
PTN3310D	568-1093-5-ND	LVDS-PECL High Speed Serial Logic Translator	8-SOIC	2.51	2.01	1.56
PTN3311D	568-1094-5-ND	PECL-LVDS High Speed Serial Logic Translator	8-SOIC	2.51	2.01	1.56

RS232/422/485

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
MC145406D-T	568-1193-1-ND	EIA-232-D/.28 Driver/Receiver	16-SOIC	1.05	.88	.70
MC145406D-T	568-1193-2-ND	EIA-232-D/.28 Driver/Receiver	16-SOIC	465.50/1,000		
MC145406N	568-1194-5-ND	EIA-232-D/.28 Driver/Receiver	16-Dip	1.05	.88	.70

Switches

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
BF1108R T/R	568-1958-1-ND	Silicon RF Switch	SOT-143R	.50	.38	.29
BF1108R T/R	568-1958-2-ND	Silicon RF Switch	SOT-143R	491.40/3,000		
CBT3125PW/G-T	568-1867-1-ND	Quad FET Bus Switch	14-TSSOP	.64	.48	.36
CBT3125PW/G-T	568-1867-2-ND	Quad FET Bus Switch	14-TSSOP	520.00/2,500		
CBT3244APW-T	568-1868-1-ND	Octal Bus Switch with Quad Output Enables	20-TSSOP	.56	.42	.32
CBT3244APW-T	568-1868-2-ND	Octal Bus Switch with Quad Output Enables	20-TSSOP	455.00/2,500		
PIP401 /T3	568-2326-1-ND	OR-ing Intelligent Switch ***NEW!***	D2-PAK	6.02	4.82	4.07
PIP401 /T3	568-2326-2-ND	OR-ing Intelligent Switch ***NEW!***	D2-PAK	3058.16/800		
SA630D/01	568-1206-5-ND	SPDT Switch	8-SOIC	5.29	4.23	3.29

UARTs

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SC16C550BIA44-T	568-2039-1-ND	5V, 3.3V and 2.5V UART with 16-Byte FIFO	44-PLCC	2.72	2.18	1.70
SC16C550BIA44-T	568-2039-2-ND	5V, 3.3V and 2.5V UART with 16-Byte FIFO	44-PLCC	784.88/500		
SC16C550BIB48-S	568-2040-ND	5V, 3.3V and 2.5V UART with 16-Byte FIFO	48-LQFP	2.72	2.18	1.70
SC16C554BIB64-S	568-2041-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	64-LQFP	8.40	6.72	5.67
SC16C554BIB80-T	568-2042-1-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	80-LQFP	8.40	6.72	5.67
SC16C554BIB80-T	568-2042-2-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 16-Byte FIFO	80-LQFP	5250.00/1,000		
SC16C554DIA68	568-1110-5-ND	Quad UART with 16-Byte FIFO/Infrared Encoder/Decoder	68-PLCC	9.64	7.72	6.51
SC16C554IB64	568-1321-ND	Quad UART with 16-Byte FIFO/Infrared Encoder/Decoder	64-LQFP	9.64	7.72	6.51
SC16C650BIA44-T	568-2043-1-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	44-PLCC	5.02	4.02	3.39
SC16C650BIA44-T	568-2043-2-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	44-PLCC	1593.85/500		
SC16C650BIB48-S	568-2044-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	48-LQFP	5.02	4.02	3.39
SC16C650BIN40	568-2045-5-ND	5V, 3.3V and 2.5V UART w/32-Byte FIFO and Infrared Encoder/Decoder	40-Dip	5.22	4.18	3.53
SC16C652BIBS	568-2046-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 32-Byte FIFO and Infrared Encoder/Decoder	32-HVQFN	5.98	4.79	4.04
SC16C654BIA68-T	568-2047-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 64-Byte FIFO and Infrared Encoder/Decoder	68-PLCC	9.60	7.68	6.48
SC16C654DBIB64-S	568-2048-ND	5V, 3.3V and 2.5V Quad UART, 5Mbit max., with 64-Byte FIFO and Infrared Encoder/Decoder	64-LQFP	9.60	7.68	6.48
SC16C750BIA44-T	568-2049-1-ND	5V, 3.3V and 2.5V UART with 64-Byte FIFO	44-PLCC	6.00	4.80	4.05
SC16C750BIA44-T	568-2049-2-ND	5V, 3.3V and 2.5V UART with 64-Byte FIFO	44-PLCC	1905.00/500		
SC16C752BIB48	568-1322-ND	Dual UART with 64-Byte FIFO	48-LQFP	5.00	4.00	3.38
SC16C754BIA68-T	568-2050-1-ND	5V, 3.3V and 2.5V UART, 5Mbit max., with 64-Byte FIFO	68-PLCC	8.33	7.50	6.65
SC16C754BIA68-T	568-2050-2-ND	5V, 3.3V and 2.5V UART, 5Mbit max., with 64-Byte FIFO	68-PLCC	1593.75/250		
SC16C754BIB80	568-1207-ND	Quad UART with 64-Byte FIFO	80-LQFP	8.33	7.50	6.65
SC16C2550BIA44-T	568-2038-1-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 16-Byte FIFO	44-PLCC	5.32	4.26	3.31
SC16C2550BIA44-T	568-2038-2-ND	5V, 3.3V and 2.5V Dual UART, 5Mbit max., with 16-Byte FIFO	44-PLCC	1535.63/500		
SC16C2552IA44-S	568-1186-5-ND	Dual UART with 16-Byte Transmit and Receive FIFOs	44-PLCC	6.58	5.27	4.45
SC16IS750IBS-S	568-2234-ND	Single UART with I^{2}C Bus/SPI Interface,64-Bytes of Transmit/Receive FIFO	24-HVQFN	2.52	2.36	2.19
SC16IS750IPW-S	568-2235-ND	Single UART with I^{2}C Bus/SPI Interface,64-Bytes of Transmit/Receive FIFO	24-TSSOP	2.09	1.95	1.81
SC16IS752IBS-S	568-2236-ND	Dual UART with I^{2}C Bus/SPI Interface, 64-Bytes of Transmit/Receive FIFO	32-HVQFN	4.29	4.01	3.72
SC16IS752IPW-S	568-2237-ND	Dual UART with I^{2}C Bus/SPI Interface, 64-Bytes of Transmit/Receive FIFO	28-TSSOP	3.57	3.34	3.10
SC16IS760IBS-S	568-2238-ND	Single UART with I^{2}C Bus/SPI Interface,64-Bytes of Transmit/Receive FIFO	24-HVQFN	2.70	2.53	2.35
SC16IS760IPW-S	568-2239-ND	Single UART with I^{2}C Bus/SPI Interface,64-Bytes of Transmit/Receive FIFO	24-TSSOP	2.25	2.10	1.95
SC16IS762IBS-S	568-2240-ND	Dual UART with I^{2}C Bus/SPI Interface, 64-Bytes of Transmit/Receive FIFO	32-HVQFN	4.60	4.30	3.99
SC16IS762IPW-S	568-2241-ND	Dual UART with I^{2}C Bus/SPI Interface, 64-Bytes of Transmit/Receive FIFO	28-TSSOP	3.84	3.59	3.33
SC26C92A1A	568-1112-5-ND	Dual Universal Async. Receiver/Transmitter	44-PLCC	5.60	5.04	4.47
SC26C92C1A	568-1113-5-ND	Dual Universal Async. Receiver/Transmitter	44-PLCC	5.25	4.73	4.19
SC26C92C1N	568-1208-5-ND	Dual Universal Async. Receiver/Transmitter	40-Dip	6.30	5.04	4.26
SC26C562C1A	568-1111-5-ND	CMOS Dual Universal Serial Communications Controller	52-PLCC	31.50	29.40	27.30
SC28C94A1A-T	568-1114-1-ND	Quad Universal Async. Receiver/Transmitter	52-PLCC	23.25	21.70	20.15
SC28C94A1A-T	568-1114-2-ND	Quad Universal Async. Receiver/Transmitter	52-PLCC	9687.50/500		
SC28L91A1B-S	568-1187-ND	3.3V or 5.0V UART	44-PQFP	9.90	7.92	6.69
SC28L92A1A-S	568-1188-5-ND	3.3V or 5.0V Dual UART	44-PLCC	9.58	8.63	7.65
SC28L92A1B	568-1211-ND	3.3/5V Dual Universal Async. Receiver/Transmitter	44-PQFP	9.58	8.63	7.65
SC28L194A1A	568-1116-5-ND	Quad UART for 3.3V/5V Supply Voltage	68-PLCC	18.75	17.50	16.25
SC28L194A1BE	568-1209-ND	Quad UART for 3.3V/5V Supply Voltage	80-LQFP	18.75	17.50	16.25
SC28L198A1A	568-1117-5-ND	Octal UART for 3.3V/5V Supply Voltage	84-PLCC	31.50	29.40	27.30
SC28L198A1BE	568-1210-ND	Octal UART for 3.3V/5V Supply Voltage	100-LQFP	31.50	29.40	27.30
SCC2691AC1A28	568-1212-5-ND	Universal Async. Receiver/ Transmitter	28-PLCC	5.50	4.40	3.72
SCC2691AC1D24	568-1118-5-ND	Universal Async. Receiver/ Transmitter	24-SOL	5.50	4.40	3.72
SCC2691AC1N24	568-1213-5-ND	Universal Async. Receiver/ Transmitter	24-Dip	5.10	4.08	3.45
SCC2691AE1A28	568-1214-5-ND	Universal Async. Receiver/ Transmitter	28-PLCC	6.60	5.28	4.46
SCC2691AE1N24	568-1215-5-ND	Universal Async. Receiver/ Transmitter	24-Dip	6.60	5.28	4.46
SCC2692AC1A44	568-1119-5-ND	Dual Universal Async. Receiver/ Transmitter	44-PLCC	5.88	4.71	3.97
SCC2692AC1N40	568-1216-5-ND	Dual Universal Async. Receiver/ Transmitter	40-Dip	5.88	4.71	3.97
SCC2698BC1A84	568-1120-5-ND	Enhanced Octal Universal Async. Receiver/Transmitter	84-PLCC	27.00	25.20	23.40
SCC68692C1A44	568-1121-5-ND	Dual Async. Receiver/Transmitter	44-PLCC	6.09	4.88	4.12

PHILIPS DIGITAL LOGIC
RoHS Compliant

ABT Family

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74ABT04D	568-1370-5-ND	Hex Inverter	14-SOIC	.94	.71	.53
74ABT08D	568-1371-5-ND	Quad 2-Input AND Gate	14-SOIC	.94	.71	.53
74ABT74D	568-1376-5-ND	Dual D-Type Flip-Flop	14-SOIC	.85	.71	.57
74ABT125D	568-1372-5-ND	Tri-State Quad Buffer	14-SOIC	.53	.42	.32
74ABT125D-T	568-2279-1-ND	Tri-State Quad Buffer	14-SOIC	.53	.42	.32
74ABT125D-T	568-2279-2-ND	Tri-State Quad Buffer	14-SOIC	354.38/2,500		
74ABT244D	568-1373-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.38	.29
74ABT244D-T	568-2280-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.38	.29
74ABT244D-T	568-2280-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	335.16/2,000		
74ABT244DB-T	568-2281-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.50	.38	.29
74ABT244DB-T	568-2281-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	167.58/1,000		
74ABT245D	568-1374-5-ND	Tri-State Octal Transceiver with Direction Pin	20-SOIC	.50	.38	.29
74ABT541D	568-1375-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.74	.56	.42

AHC Family

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74AHC1G14GV	568-2256-1-ND	Inverting Schmitt Trigger	SOT-353	.29	.22	.16
74AHC1G14GV	568-2256-2-ND	Inverting Schmitt Trigger	SOT-353	169.20/3,000		
74AHC1G32GV	568-2262-1-ND	2-Input OR Gate	SOT-753	.29	.22	.16
74AHC1G32GV	568-2262-2-ND	2-Input OR Gate	SOT-753	169.20/3,000		
74AHC02PW-T	568-2258-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.38	.30	.21
74AHC02PW-T	568-2258-2-ND	Quad 2-Input NOR Gate	14-TSSOP	211.50/2,500		

ALVC Family

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74ALVC164245DGG	568-1377-5-ND	Tri-State 16-Bit Dual Supply Translating Transceiver	48-TSSOP	1.13	.95	.76
74ALVC164245DL	568-1378-5-ND	Tri-State 16-Bit Dual Supply Translating Transceiver	48-SSOP	1.13	.95	.76

HC Family

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74HC00D-T	568-1379-1-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.34	.24
74HC00D-T	568-1379-2-ND	Quad 2-Input NAND Gate	14-SOIC	238.50/2,500		
74HC00N	568-1380-5-ND	Quad 2-Input NAND Gate	14-Dip	.45	.37	.25
74HC02D-T	568-1381-1-ND	Quad 2-Input NOR Gate	14-SOIC	.42	.34	.24
74HC02D-T	568-1381-2-ND	Quad 2-Input NOR Gate	14-SOIC	238.50/2,500		
74HC02N	568-1382-5-ND	Quad 2-Input NOR Gate	14-Dip	.45	.37	.25
74HC03D-T	568-1383-1-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.34	.24
74HC03D-T	568-1383-2-ND	Quad 2-Input NAND Gate	14-SOIC	238.50/2,500		
74HC04D-T	568-1384-1-ND	Hex Inverter	14-SOIC	.42	.34	.24
74HC04D-T	568-1384-2-ND	Hex Inverter	14-SOIC	238.50/2,500		
74HC04N	568-1385-5-ND	Hex Inverter	14-Dip	.45	.37	.25
74HC08D-T	568-1386-1-ND	Quad 2-Input AND Gate	14-SOIC	.38	.30	.22
74HC08D-T	568-1386-2-ND	Quad 2-Input AND Gate	14-SOIC	216.00/2,500		
74HC08N	568-1387-5-ND	Quad 2-Input AND Gate	14-Dip	.45	.37	.25
74HC10N	568-1388-5-ND	Triple 3-Input NAND Gate	14-Dip	.45	.37	.25
74HC11N	568-1389-5-ND	Triple 3-Input AND Gate	14-Dip	.45	.37	.25
74HC14D-T	568-1401-1-ND	Hex Inverting Schmitt Trigger	14-SOIC	.42	.34	.24
74HC14D-T	568-1401-2-ND	Hex Inverting Schmitt Trigger	14-SOIC	238.50/2,500		
74HC14N	568-1402-5-ND	Hex Inverting Schmitt Trigger	14-Dip	.45	.37	.25
74HC20N	568-1414-5-ND	Dual 4-Input NAND Gate	14-Dip	.45	.37	.25
74HC30D	568-1431-5-ND	8-Input NAND Gate	14-SOIC	.42	.34	.24
74HC30D-T	568-2261-1-ND	8-Input NAND Gate	14-SOIC	.42	.34	.24
74HC30D-T	568-2261-2-ND	8-Input NAND Gate	14-SOIC	238.50/2,500		
74HC30N	568-1432-5-ND	8-Input NAND Gate	14-Dip	.45	.37	.25
74HC32D-T	568-1433-1-ND	Quad 2-Input OR Gate	14-SOIC	.38	.30	.22

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74HC32D-T	568-1433-2-ND	Quad 2-Input OR Gate	14-SOIC	216.00/2,500		
74HC32N	568-1434-5-ND	Quad 2-Input OR Gate	14-Dip	.45	.37	.25
74HC42N	568-1469-5-ND	BCD to Decimal Decoder	16-Dip	.80	.60	.45
74HC58N	568-1481-5-ND	Dual AND-OR Gate	14-Dip	.52	.39	.30
74HC73N	568-1489-5-ND	Dual JK Flip-Flop with Reset, Negative-Edge-Triggered	14-Dip	.50	.38	.29
74HC74D-T	568-1490-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	.42	.34	.24
74HC74D-T	568-1490-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	238.50/2,500		
74HC74N	568-1491-5-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-Dip	.42	.34	.25
74HC75N	568-1493-5-ND	Quad Bistable Transparent Latch	16-Dip	.57	.43	.32
74HC85D	568-1494-5-ND	4-Bit Magnitude Comparator	16-SOIC	.55	.42	.32
74HC85N	568-1495-5-ND	4-Bit Magnitude Comparator	16-Dip	.63	.48	.36
74HC86D-T	568-1496-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.42	.34	.24
74HC86D-T	568-1496-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	238.50/2,500		
74HC86N	568-1497-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.43	.34	.26
74HC123D-T	568-1390-1-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	.42	.34	.25
74HC123D-T	568-1390-2-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	280.13/2,500		
74HC123N	568-1391-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-Dip	.50	.38	.29
74HC125D-T	568-1392-1-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	.45	.37	.25
74HC125D-T	568-1392-2-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	293.25/2,500		
74HC125N	568-1393-5-ND	Tri-State Quad Buffer/Line Driver	14-Dip	.45	.37	.28
74HC132D-T	568-1394-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.45	.37	.25
74HC132D-T	568-1394-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	293.25/2,500		
74HC132N	568-1395-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.45	.37	.28
74HC137N	568-1396-5-ND	3-to-8 Line Decoder, Demux with Address Latches, Inverting	16-Dip	.58	.44	.33
74HC138D-T	568-1397-1-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.40	.32	.24
74HC138D-T	568-1397-2-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	270.00/2,500		
74HC138N	568-1398-5-ND	3-to-8 Line Decoder/Demux, Inverting	16-Dip	.45	.37	.28
74HC139D	568-1399-5-ND	Dual 2-to-4 Line Decoder/Demux	16-SOIC	.46	.38	.26
74HC139N	568-1400-5-ND	Dual 2-to-4 Line Decoder/Demux	16-Dip	.45	.37	.28
74HC151D	568-1403-5-ND	8-Input Multiplexer	16-SOIC	.53	.40	.30
74HC153D	568-1404-5-ND	Dual 4-Input Multiplexer	16-SOIC	.55	.45	.34
74HC153N	568-1405-5-ND	Dual 4-Input Multiplexer	16-Dip	.57	.43	.32
74HC154D	568-1406-5-ND	4-to-16 Line Decoder/Demux	24-SOIC	1.04	.87	.70
74HC154N	568-1407-5-ND	4-to-16 Line Decoder/Demux	24-Dip	1.10	.92	.74
74HC164D-T	568-1408-1-ND	8-Bit Serial-In, Parallel-Out Shift Register	14-SOIC	.43	.35	.26
74HC164D-T	568-1408-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	290.25/2,500		
74HC165D-T	568-1409-1-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.42	.34	.25
74HC165D-T	568-1409-2-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	280.13/2,500		
74HC165N	568-1410-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.58	.46	.35
74HC173N	568-1411-5-ND	Tri-State, Quad D-Type Flip-Flop, Positive-Edge-Triggered	16-Dip	.61	.46	.35
74HC191N	568-1412-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-Dip	.69	.52	.39
74HC193D	568-1413-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-SOIC	.62	.47	.36
74HC221D	568-1415-5-ND	Dual Non-Retriggerable Mono Multivibrator with Reset	16-SOIC	.84	.63	.48
74HC237N	568-1416-5-ND	3-to-8 Line Decoder, Demux with Address Latches	16-Dip	.69	.52	.39
74HC238D-T	568-1417-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.61	.46	.35
74HC238D-T	568-1417-2-ND	3-to-8 Line Decoder/Demux	16-SOIC	494.98/2,500		
74HC238N	568-1418-5-ND	3-to-8 Line Decoder/Demux	16-Dip	.69	.52	.39
74HC241N	568-1419-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.61	.46	.35
74HC244D-T	568-1420-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.40	.32	.24
74HC244D-T	568-1420-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	224.00/2,000		
74HC244N	568-1421-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.58	.47	.35
74HC245D-T	568-1422-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.42	.34	.25
74HC245D-T	568-1422-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	232.40/2,000		
74HC245N	568-1423-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.58	.47	.35
74HC251D	568-1424-5-ND	Tri-State 8-Input Multiplexer	16-SOIC	.55	.45	.34
74HC257N	568-1425-5-ND	Tri-State Quad 2-Input Multiplexer	16-Dip	.61	.46	.35
74HC259D	568-1426-5-ND	8-Bit Addressable Latch	16-SOIC	.50	.40	.30
74HC259N	568-1427-5-ND	8-Bit Addressable Latch	16-Dip	.61	.46	.35
74HC273D-T	568-1428-1-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HC273D-T	568-1428-2-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	232.40/2,000		
74HC273N	568-1429-5-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-Dip	.50	.38	.29
74HC299N	568-1430-5-ND	Tri-State 8-Bit Universal Shift Register	20-Dip	1.42	1.19	.95
74HC365N	568-1435-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.78	.59	.44
74HC367D	568-1436-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.61	.46	.35
74HC373D-T	568-1437-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.40	.32	.24
74HC373D-T	568-1437-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	224.00/2,000		
74HC373N	568-1438-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.50	.38	.29
74HC374D-T	568-1439-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.40	.32	.24
74HC374D-T	568-1439-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	224.00/2,000		
74HC374N	568-1440-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.50	.38	.29
74HC377N	568-1441-5-ND	Octal D-Type Flip-Flop with Data Enable, Positive-Edge Triggered	20-Dip	.71	.54	.41
74HC390N	568-1442-5-ND	Dual Decade Ripple Counter	16-Dip	.71	.54	.41
74HC393D-T	568-1443-1-ND	Dual 4-Bit Binary Ripple Counter	14-SOIC	.42	.34	.25
74HC393D-T	568-1443-2-ND	Dual 4-Bit Binary Ripple Counter	14-SOIC	280.13/2,500		
74HC393N	568-1444-5-ND	Dual 4-Bit Binary Ripple Counter	14-Dip	.61	.46	.35
74HC423D	568-1467-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	.80	.60	.45
74HC423N	568-1468-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-Dip	.84	.63	.48
74HC540N	568-1473-5-ND	Tri-State Octal Buffer/Line Driver, Inverting	20-Dip	.71	.54	.41
74HC541D-T	568-1474-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.42	.34	.25
74HC541D-T	568-1474-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	232.40/2,000		
74HC541N	568-1475-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.50	.38	.29
74HC563N	568-1476-5-ND	Tri-State Octal D-Type Transparent Latch, Inverting	20-Dip	.92	.70	.52
74HC573D-T	568-1477-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.42	.34	.25
74HC573D-T	568-1477-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	232.40/2,000		
74HC573N	568-1478-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.50	.38	.29
74HC573PW-T	568-2264-1-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP	.44	.36	.27
74HC573PW-T	568-2264-2-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP	297.00/2,500		
74HC574D-T	568-1479-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HC574D-T	568-1479-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	232.40/2,000		
74HC574N	568-1480-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.50	.38	.29
74HC594D	568-1482-5-ND	8-Bit Shift Register w/Output Register	16-SOIC	1.01	.84	.68
74HC595D-T	568-1483-1-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-SOIC	.42	.34	.25
74HC595D-T	568-1483-2-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-SOIC	280.13/2,500		
74HC595N	568-1484-5-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-Dip	.50	.38	.29
74HC595PW-T	568-2263-1-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-TSSOP	.44	.36	.27
74HC595PW-T	568-2263-2-ND	Tri-State 8-Bit Serial-In, Serial or Parallel-Out Shift Register	16-TSSOP	297.00/2,500		
74HC597D	568-1485-5-ND	8-Bit Shift Register w/Input Flip-Flop	16-SOIC	.53	.40	.30
74HC597N	568-1486-5-ND	8-Bit Shift Register w/Input Flip-Flop	16-Dip	.78	.59	.44
74HC688N	568-1487-5-ND	8-Bit Magnitude Comparator	20-Dip	.92	.70	.52
74HC4017D	568-1446-5-ND	Johnson Decade Counter with 10-Decoded Outputs	16-SOIC	.65	.49	.37
74HC4017N	568-1447-5-ND	Johnson Decade Counter with 10-Decoded Outputs	16-Dip	.78	.59	.44
74HC4024D	568-1448-5-ND	7-Stage Binary Ripple Counter	14-SOIC	.74	.56	.42
74HC4024N	568-1449-5-ND	7-Stage Binary Ripple Counter	14-Dip	.80	.60	.45
74HC4040D	568-1450-5-ND	12-Stage Binary Ripple Counter	16-SOIC	.47	.38	.29
74HC4040N	568-1451-5-ND	12-Stage Binary Ripple Counter	16-Dip	.63	.48	.36
74HC4046AD	568-1452-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.60	.45	.34
74HC4050D	568-1453-5-ND	Hex High-to-Low Level Shifter	16-SOIC	.47	.38	.29
74HC4051D-T	568-1454-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.47	.38	.29
74HC4051D-T	568-1454-2-ND	8-Channel Analog Mux/Demux	16-SOIC	318.94/2,500		
74HC4051N	568-1455-5-ND	8-Channel Analog Mux/Demux	16-Dip	.55	.41	.31
74HC4051PW-T	568-2259-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.47	.38	.29
74HC4051PW-T	568-2259-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	318.94/2,500		
74HC4052D-T	568-1456-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.42	.34	.25
74HC4052D-T	568-1456-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	280.13/2,500		
74HC4052N	568-1457-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.55	.41	.31
74HC4053D-T	568-1458-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.42	.34	.26
74HC4053D-T	568-1458-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	283.50/2,500		
74HC4053N	568-1459-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.41	.31
74HC4060D	568-1460-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-SOIC	.59	.45	.34
74HC4060N	568-1461-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-Dip	.69	.52	.39
74HC4066D-T	568-1462-1-ND	Quad Bilateral Switch	14-SOIC	.46	.38	.26
74HC4066D-T	568-1462-2-ND	Quad Bilateral Switch	14-SOIC	301.75/2,500		
74HC4066N	568-1463-5-ND	Quad Bilateral Switch	14-Dip	.50	.38	.29
74HC4075D	568-1464-5-ND	Triple 3-Input OR Gate	14-SOIC	.58	.46	.35
74HC4094D	568-1465-5-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.50	.38	.29
74HC4094D-T	568-2265-1-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.50	.38	.29
74HC4094D-T	568-2265-2-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	406.25/2,500		
74HC4094N	568-1466-5-ND	8-Stage Shift-and-Store Bus Register	16-Dip	.71	.54	.41
74HC4316D	568-1470-5-ND	Quad Bilateral Switch	16-SOIC	.61	.46	.35
74HC4316D-T	568-2260-1-ND	Quad Bilateral Switch	16-SOIC	.61	.46	.35
74HC4316D-T	568-2260-2-ND	Quad Bilateral Switch	16-SOIC	494.98/2,500		
74HC4538D	568-1471-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-SOIC	.69	.52	.39
74HC4538N	568-1472-5-ND	Dual Retriggerable Precision Mono Multivibrator	16-Dip	.63	.48	.36
74HC7014D	568-1488-5-ND	Hex Non-Inverting Precision Schmitt-Trigger	14-SOIC	1.24	1.03	.83
74HC7541DB	568-1492-5-ND	Tri-State Octal Schmitt Trigger Buffer/Line Driver	20-SSOP	1.27	1.06	.85
74HC40103N	568-1445-5-ND	8-Bit Sync. Binary Down Counter	16-Dip	1.02	.85	.68

HCT Family

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74HCT00D-T	568-1498-1-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.34	.24
74HCT00D-T	568-1498-2-ND	Quad 2-Input NAND Gate	14-SOIC	238.50/2,500		
74HCT00N	568-1499-5-ND	Quad 2-Input NAND Gate	14-Dip	.42	.34	.25
74HCT02D-T	568-1500-1-ND	Quad 2-Input NOR Gate	14-SOIC	.42	.34	.24
74HCT02D-T	568-1500-2-ND	Quad 2-Input NOR Gate	14-SOIC	238.50/2,500		
74HCT02N	568-1501-5-ND	Quad 2-Input NOR Gate	14-Dip	.42	.34	.25
74HCT04D-T	568-1502-1-ND	Hex Inverter	14-SOIC	.42	.34	.24
74HCT04D-T	568-1502-2-ND	Hex Inverter	14-SOIC	238.50/2,500		
74HCT04N	568-1503-5-ND	Hex Inverter	14-Dip	.51	.42	.29
74HCT08D-T	568-1504-1-ND	Quad 2-Input AND Gate	14-SOIC	.38	.30	.22
74HCT08D-T	568-1504-2-ND	Quad 2-Input AND Gate	14-SOIC	216.00/2,500		
74HCT08N	568-1505-5-ND	Quad 2-Input AND Gate	14-Dip	.51	.42	.29
74HCT14D-T	568-1515-1-ND	Hex Inverting Schmitt Trigger	14-SOIC	.42	.34	.24
74HCT14D-T	568-1515-2-ND	Hex Inverting Schmitt Trigger	14-SOIC	238.50/2,500		
74HCT14N	568-1516-5-ND	Hex Inverting Schmitt Trigger	14-Dip	.51	.42	.29

(Continued)

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Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HCT32D-T	568-1536-1-ND	Quad 2-Input OR Gate	14-SOIC	.38	.30	.22
74HCT32D-T	568-1536-2-ND	Quad 2-Input OR Gate	14-SOIC	216.00/2,500		
74HCT32N	568-1537-5-ND	Quad 2-Input OR Gate	14-Dip	.51	.42	.29
74HCT74D-T	568-1565-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	.42	.34	.24
74HCT74D-T	568-1565-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	238.50/2,500		
74HCT74N	568-1566-5-ND	Dual D-Type Flip-Flop with Set and Reset Positive-Edge-Triggered	14-Dip	.51	.42	.29
74HCT85N	568-1760-5-ND	4-Bit Magnitude Comparator	16-Dip	.80	.60	.45
74HCT86N	568-1569-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.58	.46	.35
74HCT112D	568-1506-5-ND	Dual JK Flip-Flop with Set and Reset, Negative-Edge-Triggered	16-SOIC	.64	.48	.36
74HCT123D	568-1507-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-SOIC	.49	.40	.27
74HCT123N	568-1508-5-ND	Dual Retriggerable Mono Multivibrator with Reset	16-Dip	.55	.41	.31
74HCT125D-T	568-1509-1-ND	Tri-State Quad Buffer/Line Driver	16-SOIC	.45	.37	.25
74HCT125D-T	568-1509-2-ND	Tri-State Quad Buffer/Line Driver	16-SOIC	293.25/2,500		
74HCT125N	568-1510-5-ND	Tri-State Quad Buffer/Line Driver	16-Dip	.46	.37	.28
74HCT132N	568-1511-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.46	.37	.28
74HCT138D-T	568-1512-1-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.45	.37	.25
74HCT138D-T	568-1512-2-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	293.25/2,500		
74HCT138N	568-1513-5-ND	3-to-8 Line Decoder/Demux, Inverting	16-Dip	.46	.37	.28
74HCT139N	568-1514-5-ND	Dual 2-to-4 Line Decoder/Demux	16-Dip	.45	.37	.25
74HCT153D	568-1517-5-ND	Dual 4-Input Multiplexer	16-SOIC	.56	.45	.34
74HCT154N	568-1518-5-ND	4-to-16 Line Decoder/Demux	24-Dip	1.07	.90	.72
74HCT157N	568-1519-5-ND	Quad 2-Input Multiplexer	16-Dip	.65	.49	.37
74HCT164N	568-1520-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.61	.46	.35
74HCT165D	568-1521-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.55	.42	.32
74HCT165N	568-1522-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.61	.46	.35
74HCT174N	568-1523-5-ND	Hex D-Type Flip-Flop with Reset Positive-Edge-Triggered	16-Dip	.61	.46	.35
74HCT175D	568-1524-5-ND	Quad D-Type Flip-Flop with Reset Positive-Edge-Triggered	16-SOIC	.55	.42	.32
74HCT175N	568-1525-5-ND	Quad D-Type Flip-Flop with Reset Positive-Edge-Triggered	16-Dip	.61	.46	.35
74HCT193D	568-1526-5-ND	Presettable Sync. 4-Bit Binary Up/Down Counter	16-SOIC	.85	.64	.48
74HCT240N	568-1527-5-ND	Tri-State Octal Buffer/Line Driver, Inverting	20-Dip	.50	.38	.29
74HCT244D-T	568-1528-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.51	.41	.29
74HCT244D-T	568-1528-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	280.80/2,000		
74HCT244N	568-1529-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.50	.38	.29
74HCT245D-T	568-1530-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.42	.34	.25
74HCT245D-T	568-1530-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	232.40/2,000		
74HCT245N	568-1531-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.50	.38	.29
74HCT259D-T	568-1532-1-ND	8-Bit Addressable Latch	16-SOIC	.55	.44	.33
74HCT259D-T	568-1532-2-ND	8-Bit Addressable Latch	16-SOIC	367.88/2,500		
74HCT259N	568-1533-5-ND	8-Bit Addressable Latch	16-Dip	.50	.40	.30
74HCT273D-T	568-1534-1-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HCT273D-T	568-1534-2-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-SOIC	232.40/2,000		
74HCT273N	568-1535-5-ND	Octal D-Type Flip-Flop with Reset, Positive-Edge-Triggered	20-Dip	.58	.47	.35
74HCT367D	568-1538-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.59	.45	.34
74HCT367N	568-1539-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.71	.54	.41
74HCT373D-T	568-1540-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.40	.32	.24
74HCT373D-T	568-1540-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	224.00/2,000		
74HCT373N	568-1541-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.55	.41	.31
74HCT374D	568-1542-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.40	.32	.24
74HCT374N	568-1543-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.55	.41	.31
74HCT393D	568-1568-5-ND	Dual 4-Bit Binary Ripple Counter	14-SOIC	.78	.59	.44
74HCT393N	568-1545-5-ND	Dual 4-Bit Binary Ripple Counter	14-Dip	.67	.51	.38
74HCT541D	568-1553-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.42	.34	.25
74HCT541N	568-1554-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.63	.48	.36
74HCT573D-T	568-1555-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.42	.34	.25
74HCT573D-T	568-1555-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	232.40/2,000		
74HCT573N	568-1556-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.55	.41	.31
74HCT574D-T	568-1557-1-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	.42	.34	.25
74HCT574D-T	568-1557-2-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-SOIC	232.40/2,000		
74HCT574N	568-1558-5-ND	Tri-State Octal D-Type Flip-Flop, Positive-Edge-Triggered	20-Dip	.55	.41	.31
74HCT595D-T	568-1559-1-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-SOIC	.87	.66	.50
74HCT595D-T	568-1559-2-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-SOIC	708.50/2,500		
74HCT595N	568-1560-5-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-Dip	.87	.66	.50
74HCT595PW-T	568-1561-1-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-TSSOP	.75	.63	.50
74HCT595PW-T	568-1561-2-ND	Tri-State 8-Bit Serial or Parallel-Out Shift Register with Output Latches	16-TSSOP	812.50/2,500		
74HCT640N	568-1562-5-ND	Tri-State Octal Bus Transceiver, Inverting	20-Dip	.87	.73	.58
74HCT688D	568-1563-5-ND	8-Bit Magnitude Comparator	20-SOIC	.97	.73	.55
74HCT688N	568-1564-5-ND	8-Bit Magnitude Comparator	20-Dip	.75	.63	.50
74HCT4040N	568-1546-5-ND	12-Stage Binary Ripple Counter	16-Dip	.67	.51	.38

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74HCT4046AD	568-1547-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.87	.73	.58
74HCT4051D-T	568-1548-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.53	.40	.30
74HCT4051D-T	568-1548-2-ND	8-Channel Analog Mux/Demux	16-SOIC	429.98/2,500		
74HCT4053D	568-1549-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.53	.40	.30
74HCT4053D-T	568-2254-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.53	.40	.30
74HCT4053D-T	568-2254-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	429.98/2,500		
74HCT4059N	568-1550-5-ND	Programmable Divide-by-N Counter	24-Dip	2.38	1.91	1.49
74HCT4066D	568-1551-5-ND	Quad Bilateral Switch	14-SOIC	.55	.45	.34
74HCT4066PW	568-1552-5-ND	Quad Bilateral Switch	14-TSSOP	.58	.44	.33
74HCT7541D	568-1567-5-ND	Tri-State Octal Schmitt Trigger Buffer/Line Driver	20-SOIC	1.53	1.23	.92
74HCT9046AD-T	568-1570-1-ND	PLL with Band Gap Controlled VCO	16-SOIC	2.12	1.70	1.28
74HCT9046AD-T	568-1570-2-ND	PLL with Band Gap Controlled VCO	16-SOIC	2710.40/2,500		

HCU Family

74HCU04D-T	568-1571-1-ND	Hex Inverter	14-SOIC	.42	.34	.24
74HCU04D-T	568-1571-2-ND	Hex Inverter	14-SOIC	238.50/2,500		

LV Family

74LV4060D	568-1572-5-ND	14-Stage Binary Ripple Counter with Oscillator	16-SOIC	1.02	.86	.69

LVC Family

74LVC1G04GV	568-2294-1-ND	Single Inverter	SOT-753	.29	.22	.16
74LVC1G04GV	568-2294-2-ND	Single Inverter	SOT-753	169.20/3,000		
74LVC1G04GW-G	568-1579-1-ND	Single Inverter	UMT-5	.29	.22	.16
74LVC1G04GW-G	568-1579-2-ND	Single Inverter	UMT-5	169.20/3,000		
74LVC1G07GW-G	568-2295-1-ND	Buffer with OD Output	UMT-5	.29	.22	.16
74LVC1G07GW-G	568-2295-2-ND	Buffer with OD Output	UMT-5	169.20/3,000		
74LVC1G08GW-G	568-1580-1-ND	Single 2-Input AND Gate	UMT-5	.29	.22	.16
74LVC1G08GW-G	568-1580-2-ND	Single 2-Input AND Gate	UMT-5	169.20/3,000		
74LVC1G14GW-G	568-2267-1-ND	Single Schmitt-Trigger Inverter	SOT-353	.29	.22	.16
74LVC1G14GW-G	568-2267-2-ND	Single Schmitt-Trigger Inverter	SOT-353	169.20/3,000		
74LVC1G32GV	568-2297-1-ND	Single 2-Input OR Gate	SOT-753	.29	.22	.16
74LVC1G32GV	568-2297-2-ND	Single 2-Input OR Gate	SOT-753	169.20/3,000		
74LVC1G32GW-G	568-2298-1-ND	Single 2-Input OR Gate	SOT-353	.29	.22	.16
74LVC1G32GW-G	568-2298-2-ND	Single 2-Input OR Gate	SOT-353	169.20/3,000		
74LVC1G125GV	568-2296-1-ND	Tri-State Bus Buffer/Line Driver	SOT-753	.30	.23	.16
74LVC1G125GV	568-2296-2-ND	Tri-State Bus Buffer/Line Driver	SOT-753	180.00/3,000		
74LVC00AD-T	568-2270-1-ND	Quad 2-Input NAND Gate	14-SOIC	.38	.30	.22
74LVC00AD-T	568-2270-2-ND	Quad 2-Input NAND Gate	14-SOIC	216.00/2,500		
74LVC00APW-T	568-2282-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.42	.34	.24
74LVC00APW-T	568-2282-2-ND	Quad 2-Input NAND Gate	14-TSSOP	238.50/2,500		
74LVC02APW-T	568-2271-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.42	.34	.24
74LVC02APW-T	568-2271-2-ND	Quad 2-Input NOR Gate	14-TSSOP	238.50/2,500		
74LVC04AD	568-1573-5-ND	Hex Inverter	14-SOIC	.38	.30	.22
74LVC04AD-T	568-2283-1-ND	Hex Inverter	14-SOIC	.38	.30	.22
74LVC04AD-T	568-2283-2-ND	Hex Inverter	14-SOIC	216.00/2,500		
74LVC04APW-T	568-1574-1-ND	Hex Inverter	14-TSSOP	.42	.34	.24
74LVC04APW-T	568-1574-2-ND	Hex Inverter	14-TSSOP	238.50/2,500		
74LVC06AD-T	568-2284-1-ND	Hex Inverter with OD Output	14-SOIC	.43	.34	.24
74LVC06AD-T	568-2284-2-ND	Hex Inverter with OD Output	14-SOIC	243.00/2,500		
74LVC07AD-T	568-2285-1-ND	Hex Buffer with OD Output	14-SOIC	.43	.34	.24
74LVC07AD-T	568-2285-2-ND	Hex Buffer with OD Output	14-SOIC	243.00/2,500		
74LVC07APW-T	568-2286-1-ND	Hex Buffer with OD Output	14-TSSOP	.38	.31	.22
74LVC07APW-T	568-2286-2-ND	Hex Buffer with OD Output	14-TSSOP	250.75/2,500		
74LVC08AD-T	568-2273-1-ND	Quad 2-Input AND Gate	14-SOIC	.38	.30	.22
74LVC08AD-T	568-2273-2-ND	Quad 2-Input AND Gate	14-SOIC	216.00/2,500		
74LVC08APW	568-1575-5-ND	Quad 2-Input AND Gate	14-TSSOP	.42	.34	.24
74LVC14AD-T	568-1578-1-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SOIC	.38	.30	.22
74LVC14AD-T	568-1578-2-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SOIC	216.00/2,500		
74LVC14ADB-T	568-2290-1-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SSOP	.38	.30	.22
74LVC14ADB-T	568-2290-2-ND	Hex Inverting Schmitt Trigger with 5V Tolerant Input	14-SSOP	182.40/2,000		
74LVC14APW-T	568-2269-1-ND	Hex Inverting Schmitt Trigger	14-TSSOP	.42	.34	.24
74LVC14APW-T	568-2269-2-ND	Hex Inverting Schmitt Trigger	14-TSSOP	238.50/2,500		
74LVC32AD-T	568-2303-1-ND	Quad 2-Input OR Gate	14-SOIC	.38	.30	.22
74LVC32AD-T	568-2303-2-ND	Quad 2-Input OR Gate	14-SOIC	216.00/2,500		
74LVC32APW-T	568-2276-1-ND	Quad 2-Input OR Gate	14-TSSOP	.42	.34	.24
74LVC32APW-T	568-2276-2-ND	Quad 2-Input OR Gate	14-TSSOP	238.50/2,500		
74LVC74AD-T	568-2305-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	.39	.32	.22
74LVC74AD-T	568-2305-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-SOIC	255.00/2,500		
74LVC74APW	568-1588-5-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	.42	.35	.24
74LVC74APW-T	568-2306-1-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	.42	.35	.24
74LVC74APW-T	568-2306-2-ND	Dual D-Type Flip-Flop with Set and Reset, Positive-Edge-Triggered	14-TSSOP	276.25/2,500		
74LVC86AD-T	568-2307-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.39	.32	.22
74LVC86AD-T	568-2307-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	255.00/2,500		
74LVC125AD-T	568-2287-1-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	.47	.38	.26
74LVC125AD-T	568-2287-2-ND	Tri-State Quad Buffer/Line Driver	14-SOIC	306.00/2,500		
74LVC125ADB-T	568-2277-1-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-SSOP	.47	.38	.26
74LVC125ADB-T	568-2277-2-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-SSOP	259.20/2,000		
74LVC125APW	568-1576-5-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-TSSOP	.41	.34	.23
74LVC125APW-T	568-2288-1-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-TSSOP	.41	.34	.23
74LVC125APW-T	568-2288-2-ND	Tri-State Quad Buffer/Line Driver with 5V Tolerant Input/Output	14-TSSOP	267.75/2,500		
74LVC138AD	568-1577-5-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.47	.38	.26
74LVC138AD-T	568-2289-1-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	.47	.38	.26
74LVC138AD-T	568-2289-2-ND	3-to-8 Line Decoder/Demux, Inverting	16-SOIC	306.00/2,500		

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PHILIPS DIGITAL LOGIC *(Continued)*
RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74LVC163PW-T	568-2293-1-ND	Presettable Sync. 4-Bit Binary Counter	16-TSSOP	.66	.50	.38
74LVC163PW-T	568-2293-2-ND	Presettable Sync. 4-Bit Binary Counter	16-TSSOP	536.25/2,500		
74LVC244AD	568-1581-5-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SOIC	.47	.38	.26
74LVC244AD-T	568-2299-1-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SOIC	.47	.38	.26
74LVC244AD-T	568-2299-2-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SOIC	259.20/2,000		
74LVC244ADB	568-1582-5-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-SSOP	.47	.38	.26
74LVC244APW-T	568-1583-1-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-TSSOP	.50	.41	.28
74LVC244APW-T	568-1583-2-ND	Tri-State Octal Buffer/Line Driver with 5V Tolerant Input/Output	20-TSSOP	327.25/2,500		
74LVC245AD-T	568-2300-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.47	.38	.26
74LVC245AD-T	568-2300-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	259.20/2,000		
74LVC245ADB-T	568-2274-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.47	.38	.26
74LVC245ADB-T	568-2274-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	129.60/1,000		
74LVC245APW	568-1584-5-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.50	.41	.28
74LVC245APW-T	568-2301-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.50	.41	.28
74LVC245APW-T	568-2301-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	327.25/2,500		
74LVC273PW	568-2302-5-ND	Octal D-Type Flip-Flop	20-TSSOP	.51	.41	.31
74LVC273PW-T	568-2268-1-ND	Octal D-Type Flip-Flop	20-TSSOP	.51	.41	.31
74LVC273PW-T	568-2268-2-ND	Octal D-Type Flip-Flop	20-TSSOP	344.25/2,500		
74LVC373APW-T	568-2304-1-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP	.50	.41	.28
74LVC373APW-T	568-2304-2-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP	327.25/2,500		
74LVC377PW-T	568-2275-1-ND	Octal D-Type Flip-Flop	20-TSSOP	.70	.53	.40
74LVC377PW-T	568-2275-2-ND	Octal D-Type Flip-Flop	20-TSSOP	568.75/2,500		
74LVC541APW	568-1587-5-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.58	.46	.35
74LVC573APW-T	568-2272-1-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP	.50	.41	.28
74LVC573APW-T	568-2272-2-ND	Tri-State Octal D-Type Transparent Latch	20-TSSOP	327.25/2,500		
74LVC4245AD	568-1585-5-ND	Tri-State Octal Dual Supply Translating Transceiver	24-SOIC	.96	.80	.64
74LVC4245APW	568-1586-5-ND	Tri-State Octal Dual Supply Translating Transceiver	24-TSSOP	.98	.82	.65
74LVC16245ADG-T	568-2292-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	.76	.57	.43
74LVC16245ADG-T	568-2292-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	505.40/2,000		
74LVC162244ADG-T	568-2291-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	.76	.57	.43
74LVC162244ADG-T	568-2291-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	505.40/2,000		

LVCH Family

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74LVCH32245AEC	568-2278-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	7.80	6.24	5.27

LVCU Family

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74LVCU04AD-T	568-2308-1-ND	Hex Inverter	14-SOIC	.38	.30	.22
74LVCU04AD-T	568-2308-2-ND	Hex Inverter	14-SOIC	216.00/2,500		

LVT Family

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74LVT00D	568-1589-5-ND	3.3V Quad 2-Input NAND Gate	14-SOIC	.85	.71	.57
74LVT04D-T	568-2309-1-ND	3.3V Hex Inverter	14-SOIC	.85	.71	.57
74LVT04D-T	568-2309-2-ND	3.3V Hex Inverter	14-SOIC	916.50/2,500		
74LVT08D	568-1590-5-ND	3.3V Quad 2-Input AND Gate	14-SOIC	.85	.71	.57
74LVT14D	568-1593-5-ND	3.3V Hex Inverter Schmitt Trigger	14-SOIC	.85	.71	.57
74LVT74D-T	568-2318-1-ND	3.3V Dual D-Type Flip-Flop	14-SOIC	.85	.71	.57
74LVT74D-T	568-2318-2-ND	3.3V Dual D-Type Flip-Flop	14-SOIC	916.50/2,500		
74LVT125D	568-1591-5-ND	Tri-State 3.3V Quad Buffer	14-SOIC	.45	.36	.27
74LVT125D-T	568-2310-1-ND	Tri-State 3.3V Quad Buffer	14-SOIC	.45	.36	.27
74LVT125D-T	568-2310-2-ND	Tri-State 3.3V Quad Buffer	14-SOIC	301.39/2,500		
74LVT125PW	568-1592-5-ND	Tri-State 3.3V Quad Buffer	14-TSSOP	.45	.36	.27
74LVT125PW-T	568-2311-1-ND	Tri-State 3.3V Quad Buffer	14-TSSOP	.45	.36	.27
74LVT125PW-T	568-2311-2-ND	Tri-State 3.3V Quad Buffer	14-TSSOP	301.39/2,500		
74LVT244APW	568-1594-5-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	.57	.43	.32
74LVT244APW-T	568-2316-1-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	.57	.43	.32
74LVT244APW-T	568-2316-2-ND	Tri-St. 3.3V Octal Buffer/Line Driver	20-TSSOP	460.85/2,500		
74LVT245DB-T	568-2317-1-ND	Tri-State 3.3V Octal Transceiver	20-SSOP	.48	.37	.28
74LVT245DB-T	568-2317-2-ND	Tri-State 3.3V Octal Transceiver	20-SSOP	160.66/1,000		
74LVT245PW	568-1595-5-ND	Tri-State 3.3V Octal Transceiver	20-TSSOP	.48	.37	.28
74LVT16245BDG-T	568-2315-1-ND	Tri-State 3.3V LVT 16-Bit Transceiver	48-TSSOP	.91	.77	.61
74LVT16245BDG-T	568-2315-2-ND	Tri-State 3.3V LVT 16-Bit Transceiver	48-TSSOP	809.97/2,000		
74LVT162245BDG-T	568-2312-1-ND	Tri-State 3.3V 16-Bit Transceiver	48-TSSOP	.88	.74	.59
74LVT162245BDG-T	568-2312-2-ND	Tri-State 3.3V 16-Bit Transceiver	48-TSSOP	782.04/2,000		
74LVT162245BDL-T	568-2313-1-ND	Tri-State 3.3V 16-Bit Transceiver	48-SSOP	.88	.74	.59
74LVT162245BDL-T	568-2313-2-ND	Tri-State 3.3V 16-Bit Transceiver	48-SSOP	391.02/1,000		
74LVT162374DG-T	568-2314-1-ND	Tri-State 3.3V 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	.79	.66	.53
74LVT162374DG-T	568-2314-2-ND	Tri-State 3.3V 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	698.25/2,000		

74F Family

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
N74F00D-T	568-2319-1-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.33	.24
N74F00D-T	568-2319-2-ND	Quad 2-Input NAND Gate	14-SOIC	236.25/2,500		
N74F04D	568-1709-5-ND	Hex Inverter	14-SOIC	.42	.33	.24
N74F04D-T	568-2320-1-ND	Hex Inverter	14-SOIC	.42	.33	.24
N74F04D-T	568-2320-2-ND	Hex Inverter	14-SOIC	236.25/2,500		
N74F06D-T	568-1710-1-ND	Hex Inverter/Buffer Driver, Open Collector	14-SOIC	1.34	1.12	.90
N74F06D-T	568-1710-2-ND	Hex Inverter/Buffer Driver, Open Collector	14-SOIC	1452.75/2,500		
N74F06N	568-1711-5-ND	Hex Inverter/Buffer Driver, Open Collector	14-Dip	1.34	1.12	.90
N74F07D-T	568-1712-1-ND	Hex Inverter/Buffer Driver, Open Collector	14-SOIC	1.34	1.12	.90
N74F07D-T	568-1712-2-ND	Hex Inverter/Buffer Driver, Open Collector	14-SOIC	1452.75/2,500		
N74F07N	568-1713-5-ND	Hex Inverter/Buffer Driver, Open Collector	14-Dip	1.34	1.12	.90
N74F08D	568-1714-5-ND	Quad 2-Input AND Gate	14-SOIC	.42	.33	.24
N74F08D-T	568-2321-1-ND	Quad 2-Input AND Gate	14-SOIC	.42	.33	.24
N74F08D-T	568-2321-2-ND	Quad 2-Input AND Gate	14-SOIC	236.25/2,500		
N74F14D	568-1718-5-ND	Hex Inverter Schmitt Trigger	14-SOIC	.51	.42	.29
N74F32D	568-1729-5-ND	Quad 2-Input OR Gate	14-SOIC	.50	.41	.28
N74F32D-T	568-2324-1-ND	Quad 2-Input OR Gate	14-SOIC	.50	.41	.28
N74F32D-T	568-2324-2-ND	Quad 2-Input OR Gate	14-SOIC	325.98/2,500		
N74F38D	568-1731-5-ND	Quad 2-Input NAND Buffer Open Collector	14-SOIC	.58	.47	.35
N74F74D	568-1733-5-ND	Dual D-Type Flip-Flop	14-SOIC	.47	.39	.27
N74F74N	568-1734-5-ND	Dual D-Type Flip-Flop	14-Dip	.42	.34	.26
N74F85N	568-1735-5-ND	4-Bit Magnitude Comparator	16-Dip	1.38	1.10	.83
N74F86D-T	568-2325-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.51	.42	.29
N74F86D-T	568-2325-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	334.90/2,500		
N74F125D	568-1715-5-ND	Tri-State Quad Buffer	14-SOIC	.47	.38	.29
N74F125D-T	568-2322-1-ND	Tri-State Quad Buffer	14-SOIC	.47	.38	.29
N74F125D-T	568-2322-2-ND	Tri-State Quad Buffer	14-SOIC	318.94/2,500		
N74F125N	568-1716-5-ND	Tri-State Quad Buffer	14-Dip	.52	.39	.30
N74F139N	568-1717-5-ND	1-of-4 Decoder/Demux	16-Dip	.63	.48	.36
N74F157AD	568-1719-5-ND	Quad 2-Input Data Selector/Mux, Non-Inverting	16-SOIC	.53	.42	.32
N74F244D	568-1720-5-ND	Tri-State Octal Buffer	20-SOIC	.51	.39	.29
N74F244D-T	568-2323-1-ND	Tri-State Octal Buffer	20-SOIC	.51	.39	.29
N74F244D-T	568-2323-2-ND	Tri-State Octal Buffer	20-SOIC	340.75/2,000		
N74F244N	568-1721-5-ND	Tri-State Octal Buffer	20-Dip	.63	.48	.36
N74F245D	568-1722-5-ND	Tri-State Octal Transceiver	20-SOIC	.51	.39	.29
N74F245N	568-1723-5-ND	Tri-State Octal Transceiver	20-Dip	.63	.48	.36
N74F259N	568-1724-5-ND	Addressable Latch	16-Dip	1.95	1.56	1.17
N74F273AN	568-1725-5-ND	Octal D-Type Flip-Flop	20-Dip	.67	.51	.38
N74F367D	568-1730-5-ND	Hex Buffer/Driver	16-SOIC	1.39	1.11	.84
N74F3037D	568-1726-5-ND	Quad 2-Input NAND 30-Ohm Driver	16-SOIC	1.38	1.10	.83
N74F3037N	568-1727-5-ND	Quad 2-Input NAND 30-Ohm Driver	16-Dip	2.12	1.70	1.28
N74F3038D	568-1728-5-ND	Quad 2-Input NAND 30-Ohm Line Driver, Open Collector	16-SOIC	1.50	1.20	.90
N74F5074D	568-1732-5-ND	Sync. Dual D-Type Flip-Flop/Clock Driver	14-SOIC	2.20	1.76	1.32

4000 Family

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
HEF4011BPN	568-1683-5-ND	Quad 2-Input NAND Gate	14-Dip	.46	.38	.26
HEF4013BPN	568-1684-5-ND	Dual D-Type Flip-Flop	14-Dip	.41	.33	.25
HEF4013BTD	568-1685-5-ND	Dual D-Type Flip-Flop	14-SOIC	.51	.42	.29
HEF4049BPN	568-1686-5-ND	Hex Inverting Buffer	16-Dip	.50	.38	.29
HEF4049BTD	568-1687-5-ND	Hex Inverting Buffer	16-SOIC	.57	.46	.35
HEF4050BTD	568-1688-5-ND	Hex Non-Inverting Buffer	16-SOIC	.42	.34	.26
HEF4051BPN	568-1689-5-ND	8-Channel Analog Mux/Demux	16-Dip	.47	.38	.29
HEF4051BTD-T	568-1690-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.47	.38	.29
HEF4051BTD-T	568-1690-2-ND	8-Channel Analog Mux/Demux	16-SOIC	315.56/2,500		
HEF4051BTT-T	568-1875-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.60	.45	.34
HEF4051BTT-T	568-1875-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	487.50/2,500		
HEF4052BTD	568-1691-5-ND	Dual 4-Ch. Analog Mux/Demux	16-SOIC	.50	.40	.30
HEF4053BPN	568-1692-5-ND	Triple 2-Ch. Analog Mux/Demux	16-Dip	.53	.42	.32
HEF4053BTD	568-1693-5-ND	Triple 2-Ch. Analog Mux/Demux	16-SOIC	.50	.40	.30
HEF4053BTD-T	568-2255-1-ND	Triple 2-Ch. Analog Mux/Demux	16-SOIC	.50	.40	.30
HEF4053BTD-T	568-2255-2-ND	Triple 2-Ch. Analog Mux/Demux	16-SOIC	336.83/2,500		
HEF4066BPN	568-1694-5-ND	Quad Bilateral Switch	14-Dip	.49	.40	.28
HEF4066BTD	568-1695-5-ND	Quad Bilateral Switch	14-SOIC	.46	.38	.26
HEF4066BTD-T	568-2266-1-ND	Quad Bilateral Switch	14-SOIC	.46	.38	.26
HEF4066BTD-T	568-2266-2-ND	Quad Bilateral Switch	14-SOIC	303.45/2,500		
HEF4069UBPN	568-1696-5-ND	Hex Inverter	14-Dip	.49	.40	.27
HEF4070BPN	568-1697-5-ND	Quad Exclusive OR Gate	14-Dip	.50	.40	.30
HEF4071BPN	568-1698-5-ND	Quad 2-Input OR Gate	14-Dip	.47	.38	.29
HEF4072BTD	568-1699-5-ND	Dual 4-Input OR Gate	14-SOIC	.48	.36	.27
HEF4075BPN	568-1700-5-ND	Triple 3-Input OR Gate	14-Dip	.58	.47	.35
HEF4077BPN	568-1701-5-ND	Quad Exclusive NOR Gate	14-Dip	.55	.44	.33
HEF4081BPN	568-1702-5-ND	Quad 2-Input AND Gate	14-Dip	.47	.38	.29
HEF4082BPN	568-1703-5-ND	Dual 4-Input AND Gate	14-Dip	.55	.44	.33
HEF4093BPN	568-1704-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.43	.35	.24
HEF4093BTD-T	568-1705-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.41	.34	.23
HEF4093BTD-T	568-1705-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	267.75/2,500		
HEF4094BTD	568-1706-5-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.45	.36	.27
HEF4094BTD-T	568-2257-1-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	.45	.36	.27
HEF4094BTD-T	568-2257-2-ND	8-Stage Shift-and-Store Bus Register	16-SOIC	301.39/2,500		
HEF4520BPN	568-1707-5-ND	Dual Binary Counter	16-Dip	.50	.38	.29
HEF4894BTD	568-1708-5-ND	12-Stage Shift-and-Store Register LED Driver	20-SOIC	2.06	1.65	1.24
HEF40106BPN	568-1681-5-ND	Hex Inverting Schmitt Trigger	14-Dip	.43	.35	.24
HEF40106BTD-T	568-1682-1-ND	Hex Inverting Schmitt Trigger	14-SOIC	.43	.35	.24
HEF40106BTD-T	568-1682-2-ND	Hex Inverting Schmitt Trigger	14-SOIC	280.50/2,500		

PHILIPS I/O EXPANDERS
RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA9554AD	568-1051-5-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-SOIC	1.65	1.32	.99
PCA9554APW	568-1052-5-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-TSSOP	1.65	1.32	.99
PCA9554ATS-T	568-2024-1-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	20-SSOP	1.65	1.32	.99
PCA9554ATS-T	568-2024-2-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	20-SSOP	2112.00/2,500		
PCA9554D	568-1053-5-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-SOIC	1.65	1.32	.99
PCA9554DB	568-1054-5-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-SSOP	1.65	1.32	.99
PCA9554N	568-2025-5-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-Dip	1.65	1.32	.99
PCA9554PW-T	568-1055-1-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-TSSOP	1.65	1.32	.99
PCA9554PW-T	568-1055-2-ND	8-Bit I^2C/SMBus I/O Port with Interrupt	16-TSSOP	2112.00/2,500		

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PHILIPS I/O EXPANDERS *(Continued)*

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCA9554TS-T	568-2026-1-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	20-SSOP	1.65	1.32	.99
PCA9554TS-T	568-2026-2-ND	8-Bit I^{2}C/SMBus I/O Port with Interrupt	20-SSOP	2112.00/2,500		
PCA9555BS-T	568-2382-1-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt ***NEW!***	24-HVQFN	1.55	1.24	.93
PCA9555BS-T	568-2382-2-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt ***NEW!***	24-HVQFN	4650.00/6,000		
PCA9555DB-T	568-1057-1-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-SSOP	1.55	1.24	.93
PCA9555DB-T	568-1057-2-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-SSOP	806.00/1,000		
PCA9555D/G-T	568-1754-1-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-SOIC	2.45	1.96	1.47
PCA9555D/G-T	568-1754-2-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-SOIC	1274.00/1,000		
PCA9555N	568-2027-5-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-Dip	1.55	1.24	.93
PCA9555PW-T	568-1058-1-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-TSSOP	1.55	1.24	.93
PCA9555PW-T	568-1058-2-ND	16-Bit I^{2}C/SMBus I/O Port with Interrupt	24-TSSOP	1984.00/2,500		
PCA9556PW	568-1059-5-ND	Octal SMBus/I^{2}C Registered Interface	16-TSSOP	2.05	1.64	1.23
PCA9557D	568-1060-5-ND	8-Bit I^{2}C/SMBus I/O Port with Reset	16-SOIC	1.63	1.30	.98
PCA9557PW-T	568-1061-1-ND	8-Bit I^{2}C/SMBus I/O Port with Reset	16-TSSOP	1.63	1.30	.98
PCA9557PW-T	568-1061-2-ND	8-Bit I^{2}C/SMBus I/O Port with Reset	16-TSSOP	2080.00/2,500		
PCF8574APN	568-1073-5-ND	Remote 8-Bit I/O Expander	16-Dip	1.63	1.30	.98
PCF8574ATD-T	568-1074-1-ND	Remote 8-Bit I/O Expander	16-SOIC	1.53	1.22	.92
PCF8574ATD-T	568-1074-2-ND	Remote 8-Bit I/O Expander	16-SOIC	793.00/1,000		
PCF8574ATDK-T	568-2030-1-ND	Remote 8-Bit I/O Expander	20-SSOP	1.53	1.22	.92
PCF8574ATDK-T	568-2030-2-ND	Remote 8-Bit I/O Expander	20-SSOP	1952.00/2,500		
PCF8574PN	568-1075-5-ND	Remote 8-Bit I/O Expander	16-Dip	1.63	1.30	.98
PCF8574TD	568-1076-5-ND	Remote 8-Bit I/O Expander	20-SSOP	1.53	1.22	.92
PCF8574TD-T	568-1077-1-ND	Remote 8-Bit I/O Expander	20-SSOP	1.53	1.22	.92
PCF8574TD-T	568-1077-2-ND	Remote 8-Bit I/O Expander	20-SSOP	793.00/1,000		
PCF8574TDK-T	568-1078-1-ND	Remote 8-Bit I/O Expander	20-SSOP	1.53	1.22	.92
PCF8574TDK-T	568-1078-2-ND	Remote 8-Bit I/O Expander	20-SSOP	1952.00/2,500		
PCF8575TSDB-T	568-1079-1-ND	Remote 16-Bit I/O Expander	24-SSOP	1.83	1.46	1.10
PCF8575TSDB-T	568-1079-2-ND	Remote 16-Bit I/O Expander	24-SSOP	949.00/1,000		

PHILIPS LOGIC TRANSLATION

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
GTL2002DC-T	568-1869-1-ND	2-Bit Bi-Directional Low Voltage Translator	8-VSSOP	.80	.60	.45
GTL2002DC-T	568-1869-2-ND	2-Bit Bi-Directional Low Voltage Translator	8-VSSOP	780.00/3,000		
GTL2002DP/G-T	568-1870-1-ND	2-Bit Bi-Directional Low Voltage Translator	8-TSSOP	.88	.66	.50
GTL2002DP/G-T	568-1870-2-ND	2-Bit Bi-Directional Low Voltage Translator	8-TSSOP	715.00/2,500		
GTL2002D/G-T	568-1871-1-ND	2-Bit Bi-Directional Low Voltage Translator	8-SOIC	.88	.66	.50
GTL2002D/G-T	568-1871-2-ND	2-Bit Bi-Directional Low Voltage Translator	8-SOIC	715.00/2,500		
GTL2005PW-T	568-1000-1-ND	Quad Translating Transceiver	14-TSSOP	1.65	1.32	.99
GTL2005PW-T	568-1000-2-ND	Quad Translating Transceiver	14-TSSOP	2112.00/2,500		
GTL2005PW/G-T	568-1872-1-ND	Quad GTL/GTL+ to LVTTL/TTL Bidirectional Translator	14-TSSOP	1.75	1.40	1.05
GTL2005PW/G-T	568-1872-2-ND	Quad GTL/GTL+ to LVTTL/TTL Bidirectional Translator	14-TSSOP	2240.00/2,500		
GTL2006PW-T	568-1873-1-ND	13-Bit GTL–/GTL/GTL+ to LVTTL Translator	28-TSSOP	1.65	1.32	.99
GTL2006PW-T	568-1873-2-ND	13-Bit GTL–/GTL/GTL+ to LVTTL Translator	28-TSSOP	2112.00/2,500		
GTL2007PW-T	568-1874-1-ND	13-Bit GTL to LVTTL Translator with Power Good	28-TSSOP	1.65	1.32	.99
GTL2007PW-T	568-1874-2-ND	13-Bit GTL to LVTTL Translator with Power Good	28-TSSOP	2112.00/2,500		

PHILIPS MEMORY

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
EEPROM						
PCF8582C2D	568-1083-5-ND	256x8-Bit CMOS EEPROM	8-SOIC	1.05	.88	.70
SRAM						
PCF8570PN	568-1071-5-ND	256x8-Bit Low Voltage SRAM	8-Dip	2.45	1.97	1.53
PCF8570TD-T	568-1072-1-ND	256x8-Bit Low Voltage SRAM	8-SOIC	2.28	1.83	1.42
PCF8570TD-T	568-1072-2-ND	256x8-Bit Low Voltage SRAM	8-SOIC	1290.30/1,000		

PHILIPS MEMORY INTERFACE

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SSTU32864EC/G	568-2052-ND	1.8V Config. Registered Buffer	96-LFBGA	5.00	4.00	3.38
SSTU32865ET/G	568-2053-ND	1.8V, 28-Bit, 1:2 Registered Buffer	160-TFBGA	8.00	6.40	5.40
SSTU32866EC/G-S	568-2054-ND	1.8V, 25-Bit, 1:1 or 14-Bit, 1:2 Config. Registered Buffer	96-LFBGA	5.00	4.00	3.38
SSTVF16859BS-T	568-2055-1-ND	13-Bit, 1:2 SSTL_2 Registered Buffer for DDR	56-HVQFN	1.58	1.26	.95
SSTVF16859BS-T	568-2055-2-ND	13-Bit, 1:2 SSTL_2 Registered Buffer for DDR	56-HVQFN	819.00/1,000		
SSTVN16859BS-T	568-2056-1-ND	13-Bit, 1:2 SSTL_2 Registered Buffer for DDR	56-HVQFN	1.58	1.26	.95
SSTVN16859BS-T	568-2056-2-ND	13-Bit, 1:2 SSTL_2 Registered Buffer for DDR	56-HVQFN	1638.00/2,000		

PHILIPS POWER CONTROL/MANAGEMENT

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Display						
PCA9532D	568-1039-5-ND	16-Bit I^{2}C LED Dimmer	24-SOIC	1.65	1.32	.99
PCA9532PW	568-1040-5-ND	16-Bit I^{2}C LED Dimmer	24-TSSOP	1.65	1.32	.99
PCF2100CTD	568-1064-5-ND	40-Segment LCD Driver	28-SOIC	1.55	1.24	.93
PCF2111CT/1,118	568-1065-1-ND	64-Segment LCD Driver	40-VSOP	2.00	1.60	1.20
PCF2111CT/1,118	568-1065-2-ND	64-Segment LCD Driver	40-VSOP	540.00/500		
PCF2112CTD-T	568-1066-1-ND	32-Segment LCD Driver	40-VSOP	2.08	1.66	1.25
PCF2112CTD-T	568-1066-2-ND	32-Segment LCD Driver	40-VSOP	560.25/500		
PCF8562TT/2-T	568-2029-1-ND	Universal LCD Driver for Low Multiplex Rates	48-TSSOP	1.33	1.06	.80
PCF8562TT/2-T	568-2029-2-ND	Universal LCD Driver for Low Multiplex Rates	48-TSSOP	1378.00/2,000		
PCF8566PN	568-1069-5-ND	Universal LCD Driver for Low Multiplex Rates	40-Dip	2.13	1.70	1.28
PCF8566TD-T	568-1070-1-ND	Universal LCD Driver for Low Multiplex Rates	40-VSOP	2.13	1.70	1.28
PCF8566TD-T	568-1070-2-ND	Universal LCD Driver for Low Multiplex Rates	40-VSOP	573.75/500		
PCF8576CTD-T	568-1080-1-ND	Universal LCD Driver for Multiplex Rates	56-VSOP	2.23	1.78	1.34
PCF8576CTD-T	568-1080-2-ND	Universal LCD Driver for Multiplex Rates	56-VSOP	600.75/500		
PCF8576DH/2-T	568-2031-1-ND	Universal LCD Driver for Low Multiplex Rates	64-TQFP	1.79	1.43	1.08
PCF8576DH/2-T	568-2031-2-ND	Universal LCD Driver for Low Multiplex Rates	64-TQFP	1394.25/1,500		
PCF8577CPN	568-1081-5-ND	LCD Direct/Duplex Driver	40-Dip	2.48	1.98	1.49
PCF8577CTD-T	568-1082-1-ND	LCD Direct/Duplex Driver	40-VSOP	2.33	1.86	1.40
PCF8577CTD-T	568-1082-2-ND	LCD Direct/Duplex Driver	40-VSOP	627.75/500		
SAA1064PN	568-1107-5-ND	4-Digit LED Driver w/I^{2}C Bus Interface	24-Dip	3.49	2.79	2.17
SAA1064TD	568-1108-5-ND	4-Digit LED Driver w/I^{2}C Bus Interface	24-SOIC	3.49	2.79	2.17
LED Drivers						
PCA9550D	568-1046-5-ND	2-Bit I^{2}C LED Driver with Blinker	8-SOIC	1.38	1.10	.83
PCA9551D	568-1047-5-ND	8-Bit I^{2}C LED Driver with Blinker	16-SOIC	1.75	1.40	1.05
PCA9551PW	568-1048-5-ND	8-Bit I^{2}C LED Driver with Blinker	16-TSSOP	1.75	1.40	1.05
PCA9552D	568-1049-5-ND	16-Bit I^{2}C LED Driver with Blinker	24-SOIC	2.25	1.80	1.35
PCA9552PW	568-1050-5-ND	16-Bit I^{2}C LED Driver with Blinker	24-TSSOP	2.25	1.80	1.35
NEW! Switch Mode Power Supply NEW!						
TEA1506TD-T	568-2335-1-ND	GreenChip™II SMPS Control IC	14-SOIC	1.55	1.24	.93
TEA1506TD-T	568-2335-2-ND	GreenChip™II SMPS Control IC	14-SOIC	1984.00/2,500		
TEA1507PN	568-2336-5-ND	GreenChip™II SMPS Control IC	8-Dip	1.63	1.30	.98
TEA1520P/N2	568-2439-5-ND	SMPS ICs for Low Power Systems	8-Dip	1.38	1.10	.83
TEA1520TD-T	568-2333-1-ND	STARplug™ Controller	14-SOIC	1.38	1.10	.83
TEA1520TD-T	568-2333-2-ND	STARplug™ Controller	14-SOIC	1760.00/2,500		
TEA1521P/N2	568-2440-5-ND	SMPS ICs for Low Power Systems	8-Dip	1.43	1.14	.86
TEA1521TD-T	568-2334-1-ND	SMPS ICs for Low Power Systems	14-SOIC	1.43	1.14	.86
TEA1521TD-T	568-2334-2-ND	SMPS ICs for Low Power Systems	14-SOIC	1824.00/2,500		
TEA1522P/N2	568-2444-5-ND	SMPS ICs for Low Power Systems	8-Dip	1.55	1.24	.93
TEA1522T/N2	568-2438-1-ND	SMPS ICs for Low Power Systems	14-SOIC	1.55	1.24	.93
TEA1522T/N2	568-2438-2-ND	SMPS ICs for Low Power Systems	14-SOIC	1984.00/2,500		
TEA1523P/N2	568-2445-5-ND	SMPS ICs for Low Power Systems	8-Dip	1.83	1.46	1.10
TEA1532ATD-T	568-2337-1-ND	GreenChip™II SMPS Control IC	8-SOIC	1.60	1.28	.96
TEA1532ATD-T	568-2337-2-ND	GreenChip™II SMPS Control IC	8-SOIC	2048.00/2,500		
TEA1533ATD-T	568-2338-1-ND	GreenChip™II SMPS Control IC	14-SOIC	1.65	1.32	.99
TEA1533ATD-T	568-2338-2-ND	GreenChip™II SMPS Control IC	14-SOIC	2112.00/2,500		
TEA1552TD-T	568-2339-1-ND	GreenChip™II SMPS Control IC	14-SOIC	1.75	1.40	1.05
TEA1552TD-T	568-2339-2-ND	GreenChip™II SMPS Control IC	14-SOIC	2240.00/2,500		
TEA1610TD-T	568-2340-1-ND	Zero-Voltage Switching Resonant Converter Controller	16-SOIC	2.57	2.06	1.60
TEA1610TD-T	568-2340-2-ND	Zero-Voltage Switching Resonant Converter Controller	16-SOIC	3591.00/2,500		
TEA1620P/N1	568-2441-5-ND	STARplug™ Controller	8-Dip	1.40	1.12	.84
TEA1622P/N1	568-2442-5-ND	STARplug™ Controller	8-Dip	1.50	1.20	.90
TEA1623P/N1	568-2443-5-ND	STARplug™ Controller	8-Dip	1.85	1.48	1.11

PHILIPS POWER SUPPLY PRODUCTS

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
Low Dropout Regulators						
SA57000-33D-G	568-1184-1-ND	CapFREE™ 150mA Low Noise LDO Regulator	SOT-23-5	.88	.66	.50
SA57000-33D-G	568-1184-2-ND	CapFREE™ 150mA Low Noise LDO Regulator	SOT-23-5	858.00/3,000		
NEW! DC-DC Converters NEW!						
PIP202-12M-2 /T3	568-2327-1-ND	DC-DC Converter Powertrain	68-HVQFN	8.20	6.56	5.54
PIP202-12M-2 /T3	568-2327-2-ND	DC-DC Converter Powertrain	68-HVQFN	12710.00/2,500		
PIP250M /T3	568-2329-1-ND	Integrated Buck Converter	68-HVQFN	9.00	7.20	6.08
PIP250M /T3	568-2329-2-ND	Integrated Buck Converter	68-HVQFN	13950.00/2,500		

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

PHILIPS

RADIO FREQUENCY ICs

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SA8028W	568-1304-ND	2.5GHz Sigma Delta Fractional-N/760MHz IF Integer Freq. Synthesizer	24-HBCC	5.00	4.00	3.38
SAA6588TD	568-1109-5-ND	RDS/RBDS Pre-Processor	20-SOIC	5.66	4.53	3.83
TDA8024T-T	568-2448-1-ND	IC Card Interface ***NEW!***	28-SOIC	2.59	2.07	1.61
TDA8024T-T	568-2448-2-ND	IC Card Interface ***NEW!***	28-SOIC	1466.25/1,000		
TDA8024TT-T	568-2447-1-ND	IC Card Interface ***NEW!***	28-TSSOP	2.60	2.08	1.62
TDA8024TT-T	568-2447-2-ND	IC Card Interface ***NEW!***	28-TSSOP	3636.36/2,500		
TEA5757HB	568-1218-ND	Self Tuned Radio	48-PQFP	4.72	3.78	2.94

FM ICs

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SA602AD/01-T	568-1200-1-ND	Double Balanced Mixer/Oscillator	8-SOIC	2.25	1.80	1.35
SA602AD/01-T	568-1200-2-ND	Double Balanced Mixer/Oscillator	8-SOIC	2880.00/2,500		
SA602AN/01	568-1201-5-ND	Double Balanced Mixer/Oscillator	8-Dip	2.25	1.80	1.35

RFID

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
PCF7936ASM	568-1195-5-ND	Security Transponder, HITAG 2	Stick	3.49	2.79	2.17
SLRC41TOFED	568-1124-5-ND	I-CODE Reader IC	32-SOIC	7.02	5.62	4.74
TDA8029HL07BD-T	568-2233-1-ND	Low Power Single Card Reader	32-LQFP	6.46	5.18	4.37
TDA8029HL07BD-T	568-2233-2-ND	Low Power Single Card Reader	32-LQFP	8080.25/2,000		

PHILIPS

REAL TIME CLOCKS

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA8565TS-T	568-1902-1-ND	I^2C Real Time Clock/Calendar	8-TSSOP	1.65	1.32	.99
PCA8565TS-T	568-1902-2-ND	I^2C Real Time Clock/Calendar	8-TSSOP	2112.00/2,500		
PCF8563PN	568-1067-5-ND	Real Time Clock/Calendar	8-Dip	1.51	1.21	.91
PCF8563TD-T	568-1068-1-ND	Real Time Clock/Calendar	8-SOIC	1.38	1.10	.83
PCF8563TD-T	568-1068-2-ND	Real Time Clock/Calendar	8-SOIC	1760.00/2,500		
PCF8583PN	568-1084-5-ND	Clock/Calendar with 240x8-Bit RAM	8-Dip	3.09	2.48	1.93
PCF8583TD-T	568-1085-1-ND	Clock/Calendar with 240x8-Bit RAM	8-SOIC	2.72	2.18	1.70
PCF8583TD-T	568-1085-2-ND	Clock/Calendar with 240x8-Bit RAM	8-SOIC	1542.75/1,000		
PCF8593N	568-1089-5-ND	Low Power Clock/Calendar	8-Dip	2.97	2.38	1.85
PCF8593TD-T	568-1090-1-ND	Low Power Clock/Calendar	8-SOIC	2.35	1.89	1.47
PCF8593TD-T	568-1090-2-ND	Low Power Clock/Calendar	8-SOIC	3291.75/2,500		

PHILIPS

SIGNAL CONTROLLERS

RoHS Compliant

Audio Processors / CODECS

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SAF7113HB	568-1319-ND	9-Bit Video Input Processor	44-QFP	19.50	18.20	16.90
TEA6320TD	568-1148-5-ND	Sound Fader Control Circuit	32-SOIC	3.90	3.13	2.43
UCB1400BE-T	568-1323-1-ND	Audio CODEC with Touch Screen Controller	48-LQFP	5.40	4.32	3.65
UCB1400BE-T	568-1323-2-ND	Audio CODEC with Touch Screen Controller	48-LQFP	6750.00/2,000		
UDA1341TSDB	568-1154-5-ND	Economy Audio CODEC for MiniDisc Home Stereo	28-SSOP	6.21	4.97	4.20
UDA1342TSDB	568-1155-5-ND	Audio CODEC	28-SSOP	6.21	4.97	4.20
UDA1344TSDB	568-1156-5-ND	Low Voltage, Low Power Stereo Audio CODEC with DSP	28-SSOP	5.11	4.09	3.45
UDA1345TSDB	568-1157-5-ND	Economy Audio CODEC	28-SSOP	3.42	2.74	2.13
UDA1361TSDK	568-1158-5-ND	96KHz Sampling 24-Bit Stereo Audio ADC	16-SSOP	3.42	2.74	2.13

Media Processors

Philips Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
PNX1300EH/G	568-1292-ND	2.5V, 143MHz Programmable	292-HBGA	33.00	30.80	28.60
PNX1301EH/G	568-1293-ND	2.5V, 180MHz Programmable	292-HBGA	34.50	32.20	29.90
PNX1302EH/G	568-1294-ND	2.5V, 200MHz Programmable	292-HBGA	42.00	39.20	36.40
PNX1311EH/G	568-1295-ND	2.2V, 166MHz Programmable	292-HBGA	37.50	35.00	32.50
PNX1500E/G	568-1296-ND	1.2V, 240MHz Audio/Video/Graphics System	456-BGA	52.50	49.00	45.50
PNX1501E/G	568-1297-ND	1.2V, 266MHz Audio/Video/Graphics System	456-BGA	52.50	49.00	45.50
PNX1502E/G	568-1298-ND	1.3V, 300MHz Audio/Video/Graphics System	456-BGA	60.00	56.00	52.00

PHILIPS

SPECIALIZED ICs

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
KMZ51 T/R	568-2425-1-ND	Magnetic Field Sensor ***NEW!***	8-SOIC	6.46	5.18	4.37
KMZ51 T/R	568-2425-2-ND	Magnetic Field Sensor ***NEW!***	8-SOIC	4039.50/1,000		
KMZ52 /T3	568-2426-1-ND	Magnetic Field Sensor ***NEW!***	16-SOIC	9.35	8.42	7.47
KMZ52 /T3	568-2426-2-ND	Magnetic Field Sensor ***NEW!***	16-SOIC	17049.49/2,500		
NE57810S-T	568-2330-1-ND	DDR Memory Termination ***NEW!***	5-SPAK	1.63	1.30	.98
NE57810S-T	568-2330-2-ND	DDR Memory Termination ***NEW!***	5-SPAK	1690.00/2,000		
NE57811S-T	568-2331-1-ND	DDR Memory Termination ***NEW!***	5-SPAK	1.63	1.30	.98
NE57811S-T	568-2331-2-ND	DDR Memory Termination ***NEW!***	5-SPAK	1690.00/2,000		
NE57814DD-T	568-2332-1-ND	DDR Memory Termination ***NEW!***	8-HSO	1.30	1.04	.78
NE57814DD-T	568-2332-2-ND	DDR Memory Termination ***NEW!***	8-HSO	1664.00/2,500		
TZA3047BVHW-S	568-1189-ND	30Mbits to 1.25Gbits Laser Driver	32-HBCC	9.52	7.62	6.43

PHILIPS

TEMPERATURE SENSORS

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
KTY81/110	568-1003-ND	Silicon Temperature Sensor	SOD-70	1.36	1.09	.82
LM75AD/G-T	568-1889-1-ND	Digital Temp. Sensor and Thermal Watchdog™	8-SOIC	1.20	1.00	.80
LM75AD/G-T	568-1889-2-ND	Digital Temp. Sensor and Thermal Watchdog™	8-SOIC	1300.00/2,500		
NE1617ADS/G	568-1899-ND	Temp. Monitor for Microprocessor Systems	16-SSOP	2.28	1.82	1.37
SE95DP-T	568-2051-1-ND	Ultra High Accuracy Digital Temp. Sensor and Thermal Watchdog™	8-TSSOP	1.35	1.13	.90
SE95DP-T	568-2051-2-ND	Ultra High Accuracy Digital Temp. Sensor and Thermal Watchdog™	8-TSSOP	1462.50/2,500		

PHILIPS

TIMERS

RoHS Compliant

Philips Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
AU7555D/01-T	568-1766-1-ND	General Purpose CMOS Timer	8-SOIC	.68	.51	.39
AU7555D/01-T	568-1766-2-ND	General Purpose CMOS Timer	8-SOIC	552.50/2,500		
ICM7555CD/01-T	568-1818-1-ND	General Purpose CMOS Timer	8-SOIC	.48	.38	.29
ICM7555CD/01-T	568-1818-2-ND	General Purpose CMOS Timer	8-SOIC	320.63/2,500		
ICM7555CN/01	568-1819-5-ND	General Purpose CMOS Timer	8-Dip	.48	.38	.29
ICM7555ID/01-T	568-1820-1-ND	General Purpose CMOS Timer	8-SOIC	.48	.36	.27
ICM7555ID/01-T	568-1820-2-ND	General Purpose CMOS Timer	8-SOIC	390.00/2,500		
ICM7555IN/01	568-1821-5-ND	General Purpose CMOS Timer	8-Dip	.48	.36	.27

TEXAS INSTRUMENTS

AMPLIFIERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
3584JM	3584JM-ND	High-Voltage Op Amp	TO-3-8	256.98	239.85	222.72
BUF602ID	296-19309-5-ND	HS Closed Loop Buffer ***NEW!***	8-SOIC	2.03	1.62	1.22
BUF602IDBVT	296-19310-1-ND	HS Closed Loop Buffer ***NEW!***	SOT-23-5	2.25	1.80	1.35
BUF602IDBVT	296-19310-2-ND	HS Closed Loop Buffer ***NEW!***	SOT-23-5	315.00/250		
BUF634FKTTT	296-15904-1-ND	High-Speed Buffer, 250mA Output	5-DDPAK	8.10	6.48	—
BUF634FKTTT	296-15904-2-ND	High-Speed Buffer, 250mA Output	5-DDPAK	273.40/50		
BUF634P	BUF634P-ND	High-Speed Buffer, 250mA Output	8-Dip	6.10	4.88	4.12
BUF634T	BUF634T-ND	High-Speed Buffer, 250mA Output	T0-220-5	8.10	6.48	5.47
BUF634U	BUF634U-ND	High-Speed Buffer, 250mA Output	8-SOIC	6.10	4.88	4.12
BUF04701AIDGSR	296-12161-1-ND	4-Ch. R/R In/Out CMOS Buffer Amp	10-MSOP	2.79	2.24	1.74
BUF04701AIDGSR	296-12161-2-ND	4-Ch. R/R In/Out CMOS Buffer Amp	10-MSOP	4252.50/2,500		
BUF04701AIPWR	296-12162-1-ND	4-Ch. R/R In/Out CMOS Buffer Amp	14-TSSOP	2.79	2.24	1.74
BUF04701AIPWR	296-12162-2-ND	4-Ch. R/R In/Out CMOS Buffer Amp	14-TSSOP	3442.00/2,000		
BUF05703PWR	296-15206-1-ND	4-Ch. LCD Gamma Correction Buffer	14-TSSOP	2.13	1.70	1.28
BUF05703PWR	296-15206-2-ND	4-Ch. LCD Gamma Correction Buffer	14-TSSOP	2210.00/2,000		
BUF05704AIPWP	296-17458-ND	4-Ch., 18V, Gamma Correction Buffer	14-TSSOP	2.13	1.70	1.28
BUF06703PWR	296-15207-1-ND	6-Ch. LCD Gamma Correction Buffer	16-TSSOP	2.38	1.90	1.43
BUF06703PWR	296-15207-2-ND	6-Ch. LCD Gamma Correction Buffer	16-TSSOP	2470.00/2,000		
BUF06704AIPWP	296-17457-ND	6-Ch., 18V, Gamma Correction Buffer	16-TSSOP	2.38	1.90	1.43
BUF11702PWP	BUF11702PWP-ND	10+1 Channel High Current Buffer	28-HTSSOP	3.49	2.79	2.17
BUF11704AIPWP	296-17140-5-ND	18V Supply Multi-Ch. Gamma Correction Buffer.	28-TSSOP	3.49	2.79	2.17
BUF12800AIPWP	296-17589-5-ND	Ref. Voltage Generator	24-TSSOP	4.39	3.51	2.73
DEM-OPA-SO-1A	296-19589-ND	Generic Unpopulated PCB for Single Op Amps in 8-SOIC Packages ***NEW!***	—	8.54	—	—
INA101AG	INA101AG-ND	Very High Accuracy Instr. Amp	14-Dip	32.96	30.76	28.57
INA101AM	INA101AM-ND	Very High Accuracy Instr. Amp	TO-100-10	24.80	23.15	21.49
INA101CM	INA101CM-ND	Very High Accuracy Instr. Amp	TO-100-10	36.60	34.16	31.72
INA101HP	INA101HP-ND	Very High Accuracy Instr. Amp	14-Dip	13.16	11.85	10.51
INA101KU	INA101KU-ND	Very High Accuracy Instr. Amp	16-SOIC	13.24	11.93	10.58
INA101SM	INA101SM-ND	Very High Accuracy Instr. Amp	TO-100-10	42.21	39.40	36.59
INA103KP	INA103KP-ND	Low Noise, Low Distortion Instr. Amp	16-Dip	8.33	7.50	6.65
INA103KU	INA103KU-ND	Low Noise, Low Distortion Instr. Amp	16-SOIC	8.33	7.50	6.65
INA105BM	INA105BM-ND	Precision Unity Gain Diff. Amp	TO-99	18.87	17.62	16.36
INA105KP	INA105KP-ND	Precision Unity Gain Diff. Amp	8-Dip	5.60	4.48	3.78
INA105KU	INA105KU-ND	Precision Unity Gain Diff. Amp	8-SOIC	5.60	4.48	3.78
INA106KP	INA106KP-ND	Precision Fixed-Gain Differential Amp	8-Dip	8.33	7.50	6.65
INA106U	INA106U-ND	Precision Fixed-Gain Differential Amp	8-SOIC	8.33	7.50	6.65
INA110KP	INA110KP-ND	Fast-Settling, FET-Input Instr. Amp	16-Dip	11.66	10.50	9.31
INA110KU	INA110KU-ND	Fast-Settling, FET-Input Instr. Amp	16-SOIC	11.66	10.50	9.31
INA111AP	INA111AP-ND	High Speed FET-Input Instr. Amp	8-Dip	8.40	6.72	5.67
INA111AU	INA111AU-ND	High Speed FET-Input Instr. Amp	16-SOIC	8.40	6.72	5.67
INA111BP	INA111BP-ND	High Speed FET-Input Instr. Amp	8-Dip	11.16	10.05	8.92
INA111BU	INA111BU-ND	High Speed FET-Input Instr. Amp	16-SOIC	11.16	10.05	8.92
INA114AP	INA114AP-ND	Precision Instrumentation Amp	8-Dip	8.40	6.72	5.67
INA114AU	INA114AU-ND	Precision Instrumentation Amp	16-SOIC	8.40	6.72	5.67
INA114BP	INA114BP-ND	Precision Instrumentation Amp	8-Dip	9.50	8.55	7.59
INA114BU	INA114BU-ND	Precision Instrumentation Amp	16-SOIC	9.50	8.55	7.59
INA115AU	INA115AU-ND	Precision Instrumentation Amp	16-SOIC	8.40	6.72	5.67
INA115BU	INA115BU-ND	Precision Instrumentation Amp	16-SOIC	10.33	9.30	8.25
INA116PA	INA116PA-ND	Ultra Low In Bias Current Instr. Amp	16-Dip	8.40	6.72	5.67
INA116UA	INA116UA-ND	Ultra Low In Bias Current Instr. Amp	16-SOIC	8.40	6.72	5.67
INA117KU	INA117KU-ND	High Common-Mode Volt., Diff. Amp	8-SOIC	5.40	4.32	3.65
INA117P	INA117P-ND	High Common-Mode Volt., Diff. Amp	8-Dip	5.40	4.32	3.65
INA118P	INA118P-ND	Precision Low Power Instr. Amp	8-Dip	8.30	6.64	5.61
INA118PB	INA118PB-ND	Precision Low Power Instr. Amp	8-Dip	10.75	9.68	8.58
INA118U	INA118U-ND	Precision Low Power Instr. Amp	8-SOIC	8.30	6.64	5.61
INA118UB	INA118UB-ND	Precision Low Power Instr. Amp	8-SOIC	10.75	9.68	8.58
INA121P	INA121P-ND	Low Power FET Instrumentation Amp	8-Dip	7.10	5.68	4.80
INA121PA	INA121PA-ND	Low Power FET Instrumentation Amp	8-Dip	5.00	4.00	3.38
INA121U	INA121U-ND	Low Power FET Instrumentation Amp	8-SOIC	7.10	5.68	4.80
INA121UA	INA121UA-ND	Low Power FET Instrumentation Amp	8-SOIC	5.00	4.00	3.38
INA121UA/2K5	INA121UATR-ND	Low Power FET Instrumentation Amp	8-SOIC	7750.00/2,500		
INA121U/2K5	INA121UTR-ND	Low Power FET Instrumentation Amp	8-SOIC	11005.00/2,500		
INA122P	INA122P-ND	Single Supply, Micropower Instr. Amp	8-Dip	5.50	4.40	3.72
INA122PA	INA122PA-ND	Single Supply, Micropower Instr. Amp	8-Dip	4.73	3.78	2.94
INA122U	INA122U-ND	Single Supply, Micropower Instr. Amp	8-SOIC	5.50	4.40	3.72
INA122UA	INA122UA-ND	Single Supply, Micropower Instr. Amp	8-SOIC	4.73	3.78	2.94
INA125P	INA125P-ND	Instr. Amp with Precision Voltage Ref	16-Dip	5.10	4.08	3.45
INA125PA	INA125PA-ND	Instr. Amp with Precision Voltage Ref	16-Dip	4.61	3.69	2.87
INA125U	INA125U-ND	Instr. Amp with Precision Voltage Ref	16-SOIC	5.10	4.08	3.45
INA125UA	INA125UA-ND	Instr. Amp with Precision Voltage Ref	16-SOIC	4.61	3.69	2.87
INA126ECT	INA126ECT-ND	Micropower Instrumentation Amp	8-MSOP	3.53	2.83	2.20
INA126E/250	INA126ETR-ND	Micropower Instrumentation Amp	8-MSOP	522.00/250		
INA126EA/250	INA126EACT-ND	Micropower Instrumentation Amp	8-MSOP	2.68	2.15	1.67
INA126EA/250	INA126EATR-ND	Micropower Instrumentation Amp	8-MSOP	395.75/250		
INA126P	INA126P-ND	Micropower Instrumentation Amp	8-Dip	2.99	2.40	1.87
INA126PA	INA126PA-ND	Micropower Instrumentation Amp	8-Dip	2.25	1.80	1.40
INA126U	INA126U-ND	Micropower Instrumentation Amp	8-SOIC	2.99	2.40	1.87
INA126UA	INA126UA-ND	Micropower Instrumentation Amp	8-SOIC	2.25	1.80	1.40

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
INA128P	INA128P-ND	Precision Low Power Instr. Amp	8-Dip	9.40	7.52	6.35
INA128PA	INA128PA-ND	Precision Low Power Instr. Amp	8-Dip	5.80	4.64	3.92
INA128U	INA128U-ND	Precision Low Power Instr. Amp	8-SOIC	9.40	7.52	6.35
INA128UA	INA128UA-ND	Precision Low Power Instr. Amp	8-SOIC	5.80	4.64	3.92
INA129P	INA129P-ND	Precision Low Power Instr. Amp	8-Dip	9.40	7.52	6.35
INA129PA	INA129PA-ND	Precision Low Power Instr. Amp	8-Dip	5.80	4.64	3.92
INA129U	INA129U-ND	Precision Low Power Instr. Amp	8-SOIC	9.40	7.52	6.35
INA129UA	INA129UA-ND	Precision Low Power Instr. Amp	8-SOIC	5.80	4.64	3.92
INA131AP	INA131AP-ND	Precision, Gain=100, Instr. Amp	8-Dip	7.60	6.08	5.13
INA131BP	INA131BP-ND	Precision, Gain=100, Instr. Amp	8-Dip	9.50	8.55	7.59
INA132U	INA132U-ND	Low Power, Single-Supply Instr. Amp	8-SOIC	3.15	2.52	1.96
INA132UA	INA132UA-ND	Low Power, Single-Supply Instr. Amp	8-SOIC	2.36	1.89	1.47
INA133UA	INA133UA-ND	High Speed Precision Difference Amp	8-SOIC	2.36	1.89	1.47
INA133U	INA133U-ND	High Speed Precision Difference Amp	8-SOIC	3.15	2.52	1.96
INA134PA	INA134PA-ND	Audio Differential Line Receiver	8-Dip	2.36	1.89	1.47
INA134UA	INA134UA-ND	Audio Differential Line Receiver	8-SOIC	2.36	1.89	1.47
INA137PA	INA137PA-ND	Audio Differential Line Receiver	8-Dip	2.36	1.89	1.47
INA137UA	INA137UA-ND	Audio Differential Line Receiver	8-SOIC	2.36	1.89	1.47
INA138NA/250	INA138NACT-ND	Current Shunt Monitor	SOT-23-5	2.48	1.98	1.54
INA138NA/250	INA138NATR-ND	Current Shunt Monitor	SOT-23-5	365.75/250		
INA139NA/250	INA139NA/250CT-ND	2.7-40V Current Shunt Monitor	SOT-23-5	2.48	1.98	1.54
INA139NA/250	INA139NA/250TR-ND	2.7-40V Current Shunt Monitor	SOT-23-5	365.75/250		
INA139QPWRQ1	296-17088-1-ND	High-Side, Unipolar, Current Shunt Monitor	8-TSSOP	2.70	2.16	1.68
INA139QPWRQ1	296-17088-2-ND	High-Side, Unipolar, Current Shunt Monitor	8-TSSOP	3060.00/2,000		
INA141U	INA141U-ND	Precision Low Power, Gain=10,100 Instrumentation Amp	8-SOIC	9.03	8.13	7.21
INA141UA	INA141UA-ND	Precision Low Power, Gain=10,100 Instrumentation Amp	8-SOIC	6.74	5.40	4.55
INA143U	INA143U-ND	High Speed Diff. Gain=10 Instr. Amp	8-SOIC	3.15	2.52	1.96
INA143UA	INA143UA-ND	High Speed Diff. Gain=10 Instr. Amp	8-SOIC	2.36	1.89	1.47
INA145UA	INA145UA-ND	Programmable Difference Amp	8-SOIC	3.38	2.70	2.10
INA146UA	INA146UA-ND	High-Voltage Differential Amp	8-SOIC	3.83	3.06	2.38
INA148UA	INA148UA-ND	Common-Mode Instrumentation Amp	8-SOIC	4.73	3.78	2.94
INA152EA/2K5	INA152EA/2K5CT-ND	Low Power, Single Supply Diff. Amp	8-MSOP	2.70	2.16	1.68
INA152EA/2K5	INA152EA/2K5TR-ND	Low Power, Single Supply Diff. Amp	8-MSOP	3780.00/2,500		
INA154U	INA154U-ND	High-Speed Precision G=1 Diff. Amp	8-SOIC	3.15	2.52	1.96
INA154UA	INA154UA-ND	High-Speed Precision G=1 Diff. Amp	8-SOIC	2.36	1.89	1.47
INA155EA/250	INA155EACT-ND	R/R CMOS Instrumentation Amp	8-MSOP	2.70	2.16	2.70
INA155EA/250	INA155EATR-ND	R/R CMOS Instrumentation Amp	8-MSOP	399.00/250		
INA155E/250	INA155ECT-ND	R/R CMOS Instrumentation Amp	8-MSOP	3.71	2.97	2.31
INA155E/250	INA155ETR-ND	R/R CMOS Instrumentation Amp	8-MSOP	548.75/250		
INA155U	INA155U-ND	R/R CMOS Instrumentation Amp	8-SOIC	3.26	2.61	2.03
INA155UA	INA155UA-ND	R/R CMOS Instrumentation Amp	8-SOIC	2.48	1.98	1.54
INA156EA/250	INA156EACT-ND	CMOS Instrumentation Amp	8-MSOP	2.36	1.89	1.47
INA156EA/250	INA156EATR-ND	CMOS Instrumentation Amp	8-MSOP	349.25/250		
INA157U	INA157U-ND	HS Precision G=1/2 or G=2 Diff. Amp	8-SOIC	3.15	2.52	1.96
INA157UA	INA157UA-ND	HS Precision G=1/2 or G=2 Diff. Amp	8-SOIC	2.36	1.89	1.47
INA159AIDGKT	296-18688-1-ND	Precision Gain of 0.2 Level Translation Diff. Amp	8-MSOP	3.94	3.15	2.45
INA159AIDGKT	296-18688-2-ND	Precision Gain of 0.2 Level Translation Diff. Amp	8-MSOP	582.00/250		
INA163UA	INA163UA-ND	Low-Noise, Low Distort. Instr. Amp	SO-14-50	5.00	4.00	3.38
INA163UA/2K5	INA163UATR-ND	Low-Noise, Low Distort. Instr. Amp	SO-14-50	7875.00/2,500		
INA166UA	INA166UA-ND	Low-Noise Instrumentation Amp	14-SOIC	9.91	8.93	7.92
INA166UA/2K5	INA166UATR-ND	Low-Noise Instrumentation Amp	14-SOIC	18072.50/2,500		
INA168NA/250	INA168NACT-ND	High-Side Current Shunt Monitor	SOT-23-5	3.04	2.43	1.89
INA168NA/250	INA168NATR-ND	High-Side Current Shunt Monitor	SOT-23-5	449.00/250		
INA168QPWRQ1	296-17201-1-ND	High-Side Current Shunt Monitor	8-TSSOP	3.26	2.61	2.03
INA168QPWRQ1	296-17201-2-ND	High-Side Current Shunt Monitor	8-TSSOP	3698.00/2,000		
INA169NA/250	INA169NA/250CT-ND	2.7-60V Current Shunt Monitor	SOT-23-5	3.04	2.43	1.89
INA169NA/250	INA169NA/250TR-ND	2.7-60V Current Shunt Monitor	SOT-23-5	449.00/250		
INA169QPWRQ1	296-17202-1-ND	2.7-60V Current Shunt Monitor	8-TSSOP	3.26	2.61	2.03
INA169QPWRQ1	296-17202-2-ND	2.7-60V Current Shunt Monitor	8-TSSOP	3698.00/2,000		
INA170EA/2K5	INA170EA/2K5CT-ND	Bi-Directional Current Shunt Monitor	8-MSOP	2.81	2.25	2.00
INA170EA/2K5	INA170EA/2K5TR-ND	Bi-Directional Current Shunt Monitor	8-MSOP	3937.50/2,500		
INA193AIDBVT	296-17163-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA193AIDBVT	296-17163-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	315.00/250		
INA194AIDBVT	296-17164-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA194AIDBVT	296-17164-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	315.00/250		
INA195AIDBVT	296-17165-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA195AIDBVT	296-17165-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	315.00/250		
INA196AIDBVT	296-17166-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA196AIDBVT	296-17166-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	315.00/250		
INA197AIDBVT	296-17167-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA197AIDBVT	296-17167-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	315.00/250		
INA198AIDBVT	296-17168-1-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	2.25	1.80	1.35
INA198AIDBVT	296-17168-2-ND	-16V to 36V Current Shunt Monitor	SOT-23-5	315.00/250		
INA217AIDWT	296-13645-1-ND	LN, Low Distortion Instr. Amp	16-SOIC	5.50	4.40	3.72
INA217AIDWT	296-13645-2-ND	LN, Low Distortion Instr. Amp	16-SOIC	893.75/250		
INA217AIP	296-13452-5-ND	LN, Low Distortion Instr. Amp	8-Dip	5.00	4.00	3.38
INA321EA/250	INA321EACT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	2.70	2.16	1.68
INA321EA/250	INA321EATR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	399.00/250		
INA321E/250	INA321ECT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	3.71	2.97	2.31
INA321E/250	INA321ETR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	548.75/250		
INA321E/2K5	296-14586-1-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	3.38	2.70	2.10
INA321E/2K5	296-14586-2-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	4725.00/2,500		
INA322EA/250	INA322EACT-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	2.36	1.89	1.47
INA322EA/250	INA322EATR-ND	Micropower CMOS R/R Instr. Amp	8-MSOP	349.25/250		
INA326EA/2K5	INA326EA/2K5CT-ND	Precision, R/R I/O Instr. Amp	8-MSOP	4.05	3.24	2.52
INA326EA/2K5	INA326EA/2K5TR-ND	Precision, R/R I/O Instr. Amp	8-MSOP	5670.00/2,500		
INA326EA/250	296-15312-1-ND	Precision, R/R I/O Instr. Amp	8-MSOP	4.50	3.60	2.80
INA326EA/250	296-15312-2-ND	Precision, R/R I/O Instr. Amp	8-MSOP	665.00/250		
INA327EA/2K5	INA327EA/2K5CT-ND	Prec., R/R I/O Instr. Amp with SD	10-MSOP	4.39	3.51	2.73
INA327EA/2K5	INA327EA/2K5TR-ND	Prec., R/R I/O Instr. Amp with SD	10-MSOP	6142.50/2,500		
INA327EA/250	296-15953-1-ND	Prec., R/R, I/O Instr. Amp with SD	10-MSOP	4.84	3.87	3.01
INA327EA/250	296-15953-2-ND	Prec., R/R, I/O Instr. Amp with SD	10-MSOP	715.00/250		
INA330AIDGST	296-13861-1-ND	Thermistor Signal Amp for Temp. Control	10-MSOP	3.83	3.06	2.38
INA330AIDGST	296-13861-2-ND	Thermistor Signal Amp for Temp. Control	10-MSOP	565.25/250		

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
INA331AIDGKT	296-12202-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	2.81	2.25	1.75
INA331AIDGKT	296-12202-2-ND	Low Power, CMOS Instr. Amp	8-MSOP	415.75/250		
INA331IDGKT	296-12203-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	3.71	2.97	2.31
INA331IDGKT	296-12203-2-ND	Low Power, CMOS Instr. Amp	8-MSOP	548.75/250		
INA332AIDGKT	296-12204-1-ND	Low Power, CMOS Instr. Amp	8-MSOP	2.38	1.90	1.43
INA332AIDGKT	296-12204-2-ND	Low Power, CMOS Instr. Amp	8-MSOP	332.50/250		
INA337AIDGKT	296-13453-1-ND	Wide Temperature, Precision Instrumentation Amplifier	8-MSOP	4.50	3.60	2.80
INA337AIDGKT	296-13453-2-ND	Wide Temperature, Precision Instrumentation Amplifier	8-MSOP	665.00/250		
INA338AIDGST	296-13454-1-ND	Wide Temperature, Precision Instr. Amp. with Shutdown	10-MSOP	4.84	3.87	3.01
INA338AIDGST	296-13454-2-ND	Wide Temperature, Precision Instr. Amp. with Shutdown	10-MSOP	715.00/250		
INA2126EA/250	INA2126EACT-ND	Dual, Micropower Instr. Amp	16-SSOP	4.28	3.42	2.66
INA2126EA/250	INA2126EATR-ND	Dual, Micropower Instr. Amp	16-SSOP	631.75/250		
INA2126E/250	INA2126ECT-ND	Dual, Micropower Instr. Amp	16-SSOP	5.56	4.45	3.46
INA2126E/250	INA2126ETR-ND	Dual, Micropower Instr. Amp	16-SSOP	821.25/250		
INA2126P	INA2126P-ND	Dual, Micropower Instr. Amp	16-Dip	4.82	3.86	3.00
INA2126PA	INA2126PA-ND	Dual, Micropower Instr. Amp	16-Dip	3.65	2.92	2.27
INA2126U	INA2126U-ND	Dual, Micropower Instr. Amp	16-SOIC	4.82	3.86	3.00
INA2126UA	INA2126UA-ND	Dual, Micropower Instr. Amp	16-SOIC	3.65	2.92	2.27
INA2128UA	INA2128UA-ND	Dual, Low Power Instr. Amp	16-SOIC	9.32	7.46	6.30
INA2132U	INA2132U-ND	Dual, LP, Single-Supply Diff. Amp	14-SOIC	5.29	4.23	3.29
INA2132UA	INA2132UA-ND	Dual, LP, Single-Supply Diff. Amp	14-SOIC	4.05	3.24	2.52
INA2133U	INA2133U-ND	Dual, High-Speed, Diff. Amp	14-SOIC	5.29	4.23	3.29
INA2133UA	INA2133UA-ND	Dual, High-Speed, Diff. Amp	14-SOIC	4.05	3.24	2.52
INA2134PA	INA2134PA-ND	Dual, Audio Differential Line Receiver	14-Dip	3.83	3.06	2.38
INA2134UA	INA2134UA-ND	Dual, Audio Differential Line Receiver	14-SOIC	3.83	3.06	2.38
INA2137PA	INA2137PA-ND	Dual, Audio Differential Line Receiver	14-Dip	3.83	3.06	2.38
INA2137UA	INA2137UA-ND	Dual, Audio Differential Line Receiver	14-SOIC	3.83	3.06	2.38
INA2141U	INA2141U-ND	Dual, Gain=10,100 Instr. Amp	16-SOIC	14.41	12.98	11.51
INA2141UA	INA2141UA-ND	Dual, Gain=10,100 Instr. Amp	16-SOIC	8.95	8.06	7.15
INA2143U	INA2143U-ND	Dual, High Speed Precision Gain=10 Difference Amp	14-SOIC	5.06	4.05	3.15
INA2143UA	INA2143UA-ND	Dual, High Speed Precision Gain=10 Difference Amp	14-SOIC	3.83	3.06	2.38
INA2321EA/250	INA2321EACT-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	4.39	3.51	2.73
INA2321EA/250	INA2321EATR-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	648.50/250		
INA2322EA/250	INA2322EACT-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	3.71	2.97	2.31
INA2322EA/250	INA2322EATR-ND	Micropower CMOS R/R Instr. Amp	14-TSSOP	548.75/250		
INA2331AIPWR	INA2331AIPWRCT-ND	LP R/R CMOS Instr. Amp	14-TSSOP	4.05	3.24	2.52
INA2331AIPWR	INA2331AIPWRTR-ND	LP R/R CMOS Instr. Amp	14-TSSOP	5670.00/2,500		
INA2331AIPWT	296-17647-1-ND	LP R/R CMOS Instr. Amp	14-TSSOP	4.39	3.51	2.73
INA2331AIPWT	296-17647-2-ND	LP R/R CMOS Instr. Amp	14-TSSOP	648.50/250		
INA2332AIPWR	INA2332AIPWRCT-ND	LP R/R CMOS Instr. Amp	14-TSSOP	3.04	2.43	1.89
INA2332AIPWR	INA2332AIPWRTR-ND	LP R/R CMOS Instr. Amp	14-TSSOP	4252.50/2,500		
ISO100AP	ISO100AP-ND	Low Leakage Isolation Amp	18-Dip	125.46	117.10	108.74
ISO121BG	296-12577-5-ND	2500 VRMS Precision Isolation Amp	40-Dip	110.10	102.76	95.42
ISO122JP	ISO122JP-ND	Low-Cost Precision Isolation Amp	16-Dip	15.66	14.10	12.51
ISO122JU	ISO122JU-ND	Low-Cost Precision Isolation Amp	28-SOIC	15.66	14.10	12.51
ISO122P	ISO122P-ND	Low-Cost Precision Isolation Amp	16-Dip	17.55	16.38	15.21
ISO122U	ISO122U-ND	Low-Cost Precision Isolation Amp	28-SOIC	17.55	16.38	15.21
ISO124P	ISO124P-ND	Low-Cost Precision Isolation Amp	16-Dip	12.00	10.80	9.58
ISO124U	ISO124U-ND	Low-Cost Precision Isolation Amp	28-SOIC	12.00	10.80	9.58
ISO150AU	ISO150AU-ND	Dual, Isolated, Bi-Dir. Digital Coupler	28-SOIC	13.49	12.15	10.78
ISO508P	ISO508P-ND	Uni-Directional Isolated Digital Coupler	24-Dip	12.69	11.43	10.14
LF347BD	296-7136-5-ND	Quad WB JFET Op Amp	14-SOIC	1.50	1.20	.90
LF347D	296-7137-5-ND	Quad WB JFET Op Amp	14-SOIC	.68	.51	.39
LF347DR	296-7137-1-ND	Quad WB JFET Op Amp	14-SOIC	.68	.51	.39
LF347DR	296-7137-2-ND	Quad WB JFET Op Amp	14-SOIC	552.50/2,500		
LF347N	296-7138-5-ND	Quad WB JFET Op Amp	14-Dip	.68	.51	.39
LF353D	296-1384-5-ND	Dual JFET Op Amp	8-SOIC	.48	.36	.27
LF353DR	296-14587-1-ND	Dual JFET Op Amp	8-SOIC	.48	.36	.27
LF353DR	296-14587-2-ND	Dual JFET Op Amp	8-SOIC	390.00/2,500		
LF353P	296-7139-5-ND	Dual JFET Op Amp	8-Dip	.53	.40	.30
LF411CD	296-12846-5-ND	High Speed JFET Op Amp	8-SOIC	1.05	.88	.70
LF412CD	296-7140-5-ND	Dual JFET Op Amp	8-SOIC	1.14	.95	.76
LF412CDR	296-14588-1-ND	Dual JFET Op Amp	8-SOIC	1.14	.95	.76
LF412CDR	296-14588-2-ND	Dual JFET Op Amp	8-SOIC	1235.00/2,500		
LF412CP	296-7141-5-ND	Dual JFET Op Amp	8-Dip	1.14	.95	.76
LM124DR	296-16907-1-ND	Quad Op Amp	14-SOIC	.92	.69	.52
LM124DR	296-16907-2-ND	Quad Op Amp	14-SOIC	747.50/2,500		
LM224AD	296-7029-5-ND	Quad Op Amp	14-SOIC	.60	.45	.34
LM224ADR	296-7029-1-ND	Quad Op Amp	14-SOIC	.60	.45	.34
LM224ADR	296-7029-2-ND	Quad Op Amp	14-SOIC	487.50/2,500		
LM224DR	296-12847-1-ND	Quad Op Amp	14-SOIC	.55	.44	.33
LM224DR	296-12847-2-ND	Quad Op Amp	14-SOIC	372.50/2,500		
LM224KADR	296-18433-1-ND	Quad Op Amp	14-SOIC	.54	.41	.31
LM224KADR	296-18433-2-ND	Quad Op Amp	14-SOIC	440.00/2,500		
LM224KAN	296-18434-5-ND	Quad Op Amp	14-Dip	.54	.41	.31
LM224KDR	296-18435-1-ND	Quad Op Amp	14-SOIC	.54	.41	.31
LM224KDR	296-18435-2-ND	Quad Op Amp	14-SOIC	440.00/2,500		
LM224KN	296-18436-5-ND	Quad Op Amp	14-Dip	.54	.41	.310
LM224N	296-7030-5-ND	Quad Op Amp	14-Dip	.55	.44	.33
LM236D-2-5	296-7031-5-ND	2.5V Integrated Reference Circuit	8-SOIC	1.25	1.00	.75
LM237KC	296-7032-5-ND	3-Terminal Adj. Voltage Regulator	TO-220AB	1.25	1.00	.75
LM248D	296-6622-5-ND	Quad Op Amp	14-SOIC	.90	.75	.60
LM248N	296-6623-5-ND	Quad Op Amp	14-Dip	.90	.75	.60
LM258ADGKR	296-17216-1-ND	Dual Op Amp	8-VSSOP	1.25	1.00	.75
LM258ADGKR	296-17216-2-ND	Dual Op Amp	8-VSSOP	845.00/2,500		
LM258ADR	296-15169-1-ND	Dual Op Amp	8-SOIC	.75	.63	.50
LM258ADR	296-15169-2-ND	Dual Op Amp	8-SOIC	812.50/2,500		
LM258D	296-6624-5-ND	Dual Op Amp	8-SOIC	.55	.44	.33
LM258DGKR	296-17217-1-ND	Dual Op Amp	8-VSSOP	.60	.48	.36
LM258DGKR	296-17217-2-ND	Dual Op Amp	8-VSSOP	405.00/2,500		
LM258DR	296-14591-1-ND	Dual Op Amp	8-SOIC	.55	.44	.33
LM258DR	296-14591-2-ND	Dual Op Amp	8-SOIC	372.50/2,500		
LM258P	296-6625-5-ND	Dual Op Amp	8-Dip	.55	.44	.33
LM293ADGKR	296-17218-1-ND	Dual Differential Comparator	8-VSSOP	.60	.48	.36

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM293ADGKR	296-17218-2-ND	Dual Differential Comparator	8-VSSOP	405.00/2,500		
LM293DGKR	296-17219-1-ND	Dual Differential Comparator	8-VSSOP	.55	.44	.33
LM293DGKR	296-17219-2-ND	Dual Differential Comparator	8-VSSOP	372.50/2,500		
LM318D	296-9538-5-ND	Single High Speed Op Amp	8-SOIC	1.20	1.00	.80
LM318P	296-9539-5-ND	Single High Speed Op Amp	8-Dip	1.20	1.00	.80
LM324AD	296-9540-5-ND	Quad General Purpose Op Amp	14-SOIC	.50	.40	.30
LM324ADR	296-9540-1-ND	Quad General Purpose Op Amp	14-SOIC	.50	.40	.30
LM324ADR	296-9540-2-ND	Quad General Purpose Op Amp	14-SOIC	337.50/2,500		
LM324ADBR	296-9541-1-ND	Quad General Purpose Op Amp	14-SSOP	.48	.36	.27
LM324ADBR	296-9541-2-ND	Quad General Purpose Op Amp	14-SSOP	320.00/2,000		
LM324AN	296-9542-5-ND	Quad General Purpose Op Amp	14-Dip	.50	.40	.30
LM324ANSR	296-9543-1-ND	Quad General Purpose Op Amp	14-SOP	.50	.40	.30
LM324ANSR	296-9543-2-ND	Quad General Purpose Op Amp	14-SOP	280.00/2,000		
LM324APWR	296-9544-1-ND	Quad General Purpose Op Amp	14-TSSOP	.50	.40	.30
LM324APWR	296-9544-2-ND	Quad General Purpose Op Amp	14-TSSOP	280.00/2,000		
LM324D	296-1390-5-ND	Quad General Purpose Op Amp	14-SOIC	.45	.36	.27
LM324DR	296-14597-1-ND	Quad General Purpose Op Amp	14-SOIC	.45	.36	.27
LM324DR	296-14597-2-ND	Quad General Purpose Op Amp	14-SOIC	305.00/2,500		
LM324KADR	296-18447-1-ND	Quad General Purpose Op Amp	14-SOIC	.53	.42	.32
LM324KADR	296-18447-2-ND	Quad General Purpose Op Amp	14-SOIC	355.00/2,500		
LM324KAN	296-17882-5-ND	Quad General Purpose Op Amp	14-Dip	.53	.42	.32
LM324KANSR	296-18448-1-ND	Quad General Purpose Op Amp	14-SOP	.53	.42	.32
LM324KANSR	296-18448-2-ND	Quad General Purpose Op Amp	14-SOP	294.00/2,000		
LM324KAPWR	296-18449-1-ND	Quad General Purpose Op Amp	14-TSSOP	.53	.42	.32
LM324KAPWR	296-18449-2-ND	Quad General Purpose Op Amp	14-TSSOP	294.00/2,000		
LM324KDR	296-18450-1-ND	Quad General Purpose Op Amp	14-SOIC	.50	.40	.30
LM324KDR	296-18450-2-ND	Quad General Purpose Op Amp	14-SOIC	337.50/2,500		
LM324KN	296-18451-5-ND	Quad General Purpose Op Amp	14-Dip	.50	.40	.30
LM324KNSR	296-18452-1-ND	Quad General Purpose Op Amp	14-SOP	.50	.40	.30
LM324KNSR	296-18452-2-ND	Quad General Purpose Op Amp	14-SOP	280.00/2,000		
LM324KPWR	296-18453-1-ND	Quad General Purpose Op Amp	14-TSSOP	.50	.40	.30
LM324KPWR	296-18453-2-ND	Quad General Purpose Op Amp	14-TSSOP	280.00/2,000		
LM324N	296-1391-5-ND	Quad General Purpose Op Amp	14-Dip	.45	.36	.27
LM324PWR	296-9545-1-ND	Quad General Purpose Op Amp	14-TSSOP	.45	.36	.27
LM324PWR	296-9545-2-ND	Quad General Purpose Op Amp	14-TSSOP	252.00/2,000		
LM348D	296-9552-5-ND	Quad General Purpose Op Amp	14-SOIC	.45	.36	.27
LM348DR	296-14600-1-ND	Quad General Purpose Op Amp	14-SOIC	.45	.36	.27
LM348DR	296-14600-2-ND	Quad General Purpose Op Amp	14-SOIC	305.00/2,500		
LM358AD	296-9553-5-ND	Dual Op Amp	8-SOIC	.50	.40	.30
LM358ADGKR	296-18455-1-ND	Dual Op Amp	8-MSOP	.50	.40	.30
LM358ADGKR	296-18455-2-ND	Dual Op Amp	8-MSOP	337.50/2,500		
LM358ADR	296-14601-1-ND	Dual Op Amp	8-SOIC	.50	.40	.30
LM358ADR	296-14601-2-ND	Dual Op Amp	8-SOIC	337.50/2,500		
LM358AP	296-9554-5-ND	Dual Op Amp	8-Dip	.50	.40	.30
LM358APWR	296-18456-1-ND	Dual Op Amp	8-TSSOP	.50	.40	.30
LM358APWR	296-18456-2-ND	Dual Op Amp	8-TSSOP	280.00/2,000		
LM358D	296-1014-5-ND	Dual Op Amp	8-SOIC	.45	.36	.27
LM358DGKR	296-18457-1-ND	Dual Op Amp	8-MSOP	.50	.40	.30
LM358DGKR	296-18457-2-ND	Dual Op Amp	8-MSOP	337.50/2,500		
LM358DR	296-1014-1-ND	Dual Op Amp	8-SOIC	.45	.36	.27
LM358DR	296-1014-2-ND	Dual Op Amp	8-SOIC	305.00/2,500		
LM358P	296-1395-5-ND	Dual Op Amp	8-Dip	.45	.36	.27
LM358PSR	296-1396-1-ND	Dual Op Amp	8-SOP	.45	.36	.27
LM358PSR	296-1396-2-ND	Dual Op Amp	8-SOP	252.00/2,000		
LM358PWR	296-9555-1-ND	Dual Op Amp	8-TSSOP	.45	.36	.27
LM358PWR	296-9555-2-ND	Dual Op Amp	8-TSSOP	252.00/2,000		
LM2900DR	296-9525-1-ND	Quad Op Amp	14-SOIC	.50	.40	.30
LM2900DR	296-9525-2-ND	Quad Op Amp	14-SOIC	337.50/2,500		
LM2900N	296-9526-5-ND	Quad Op Amp	14-Dip	.50	.40	.30
LM2902DR	296-14594-1-ND	Quad Op Amp	14-SOIC	.50	.40	.30
LM2902DR	296-14594-2-ND	Quad Op Amp	14-SOIC	337.50/2,500		
LM2902KAVQDR	296-17253-1-ND	Quad Op Amp	14-SOIC	.52	.39	.30
LM2902KAVQDR	296-17253-2-ND	Quad Op Amp	14-SOIC	422.50/2,500		
LM2902KAVQDRQ1	296-18439-1-ND	Quad Op Amp	14-SOIC	.60	.45	.34
LM2902KAVQDRQ1	296-18439-2-ND	Quad Op Amp	14-SOIC	487.50/2,500		
LM2902KDR	296-18440-5-ND	Quad Op Amp	14-SOIC	.55	.44	.33
LM2902KN	296-18441-5-ND	Quad Op Amp	14-Dip	.55	.44	.33
LM2902KNSR	296-18442-1-ND	Quad Op Amp	14-SOP	.55	.44	.33
LM2902KNSR	296-18442-2-ND	Quad Op Amp	14-SOP	308.00/2,000		
LM2902KPWR	296-18443-1-ND	Quad Op Amp	14-TSSOP	.55	.44	.33
LM2902KPWR	296-18443-2-ND	Quad Op Amp	14-TSSOP	308.00/2,000		
LM2902KVQDR	296-17396-1-ND	Quad Op Amp	14-SOIC	.48	.36	.27
LM2902KVQDR	296-17396-2-ND	Quad Op Amp	14-SOIC	390.00/2,500		
LM2902KVQPWRQ1	296-17714-1-ND	Quad Op Amp	14-TSSOP	.56	.42	.32
LM2902KVQPWRQ1	296-17714-2-ND	Quad Op Amp	14-TSSOP	372.00/2,000		
LM2902QPWRQ1	296-16908-1-ND	Quad Op Amp	14-TSSOP	.76	.62	.43
LM2902QPWRQ1	296-16908-2-ND	Quad Op Amp	14-TSSOP	422.00/2,000		
LM2904AVQDRQ1	296-18445-1-ND	Dual General Purpose Op Amp	8-SOIC	.60	.45	.34
LM2904AVQDRQ1	296-18445-2-ND	Dual General Purpose Op Amp	8-SOIC	487.50/2,500		
LM2904AVQPWRQ1	296-17791-1-ND	Dual General Purpose Op Amp	8-TSSOP	.60	.45	.34
LM2904AVQPWRQ1	296-17791-2-ND	Dual General Purpose Op Amp	8-TSSOP	400.00/2,000		
LM2904D	296-9527-5-ND	Dual General Purpose Op Amp	8-SOIC	.50	.40	.30
LM2904DGKR	296-17931-1-ND	Dual General Purpose Op Amp	8-MSOP	.50	.40	.30
LM2904DGKR	296-17931-2-ND	Dual General Purpose Op Amp	8-MSOP	337.50/2,500		
LM2904DR	296-14596-1-ND	Dual General Purpose Op Amp	8-SOIC	.50	.40	.30
LM2904DR	296-14596-2-ND	Dual General Purpose Op Amp	8-SOIC	337.50/2,500		
LM2904P	296-9528-5-ND	Dual General Purpose Op Amp	8-Dip	.50	.40	.30
LM2904PWR	296-9529-1-ND	Dual General Purpose Op Amp	8-TSSOP	.50	.40	.30
LM2904PWR	296-9529-2-ND	Dual General Purpose Op Amp	8-TSSOP	280.00/2,000		
LM2904QPWRQ1	296-18446-1-ND	Dual General Purpose Op Amp	8-TSSOP	.48	.48	.27
LM2904QPWRQ1	296-18446-2-ND	Dual General Purpose Op Amp	8-TSSOP	320.00/2,000		
LM2904VQDRQ1	296-17099-1-ND	Dual General Purpose Op Amp	8-SOIC	.56	.42	.32
LM2904VQDRQ1	296-17099-2-ND	Dual General Purpose Op Amp	8-SOIC	455.00/2,500		
LM2904VQPWRQ1	296-19590-1-ND	Dual General Purpose Op Amp ***NEW!***	8-TSSOP	.56	.42	.32
LM2904VQPWRQ1	296-19590-2-ND	Dual General Purpose Op Amp ***NEW!***	8-TSSOP	372.00/2,000		
LM3900D	296-9564-5-ND	Quad Op Amp	14-SOIC	.96	.80	.64
LM3900DR	296-14604-1-ND	Quad Op Amp	14-SOIC	.96	.80	.64
LM3900DR	296-14604-2-ND	Quad Op Amp	14-SOIC	1040.00/2,500		
LM3900N	296-9565-5-ND	Quad Op Amp	14-Dip	.96	.80	.64
LMV321IDBVR	296-9567-1-ND	Low Voltage R/R Op Amp	SOT-23-5	.78	.65	.52
LMV321IDBVR	296-9567-2-ND	Low Voltage R/R Op Amp	SOT-23-5	1014.00/3,000		
LMV321IDCKR	296-9568-1-ND	Low Voltage R/R Op Amp	SC70-5	.68	.51	.39
LMV321IDCKR	296-9568-2-ND	Low Voltage R/R Op Amp	SC70-5	663.00/3,000		
LMV324ID	296-9569-5-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.80	.60	.45
LMV324IDR	296-9569-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.80	.60	.45
LMV324IDR	296-9569-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	650.00/2,500		
LMV324IDRQ1	296-18458-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.60	.45	.34
LMV324IDRQ1	296-18458-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	487.50/2,500		
LMV324IPWR	296-9570-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.88	.66	.50
LMV324IPWR	296-9570-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	586.00/2,000		
LMV324QDR	296-17467-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.96	.72	.54
LMV324QDR	296-17467-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	780.00/2,500		
LMV324QDRQ1	296-19470-1-ND	Quad Low Voltage R/R Op Amp ***NEW!***	14-SOIC	.60	.45	.34
LMV324QDRQ1	296-19470-2-ND	Quad Low Voltage R/R Op Amp ***NEW!***	14-SOIC	487.50/2,500		
LMV324QPWR	296-17468-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.96	.72	.54
LMV324QPWR	296-17468-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	638.00/2,000		
LMV324QPWRQ1	296-19542-1-ND	Quad Low Voltage R/R Op Amp ***NEW!***	14-TSSOP	.60	.45	.34
LMV324QPWRQ1	296-19542-2-ND	Quad Low Voltage R/R Op Amp ***NEW!***	14-TSSOP	400.00/2,000		
LMV324SIDR	296-15361-1-ND	Quad Low Voltage R/R Op Amp	16-SOIC	.96	.72	.54
LMV324SIDR	296-15361-2-ND	Quad Low Voltage R/R Op Amp	16-SOIC	780.00/2,500		
LMV324SIPWR	296-15362-1-ND	Quad Low Voltage R/R Op Amp	16-TSSOP	.96	.72	.54
LMV324SIPWR	296-15362-2-ND	Quad Low Voltage R/R Op Amp	16-TSSOP	638.00/2,000		
LMV341IDBVR	296-17843-1-ND	R/R Out, CMOS Op Amp	SOT-23-6	.80	.60	.45
LMV341IDBVR	296-17843-2-ND	R/R Out, CMOS Op Amp	SOT-23-6	780.00/3000		
LMV341IDCKR	296-17359-1-ND	R/R Out, CMOS Op Amp	SC70-6	.80	.60	.45
LMV341IDCKR	296-17359-2-ND	R/R Out, CMOS Op Amp	SC70-6	780.00/3,000		
LMV344IPWR	296-18596-1-ND	R/R Out, CMOS Op Amp ***NEW!***	14-TSSOP	.75	.63	.50
LMV344IPWR	296-18596-2-ND	R/R Out, CMOS Op Amp ***NEW!***	14-TSSOP	666.00/2,000		
LMV358IDDUR	296-16705-1-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	.80	.60	.45
LMV358IDDUR	296-16705-2-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	780.00/3,000		
LMV358IDGKR	296-13455-1-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	.88	.66	.50
LMV358IDGKR	296-13455-2-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	715.00/2,500		
LMV358IDR	296-9571-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.80	.60	.45
LMV358IDR	296-9571-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	650.00/2,500		
LMV358IDRQ1	296-17648-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.88	.66	.50
LMV358IDRQ1	296-17648-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	715.00/2,500		
LMV358IPWR	296-9572-1-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	.88	.66	.50
LMV358IPWR	296-9572-2-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	586.00/2,000		
LMV358QDDUR	296-17469-1-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	.78	.65	.52
LMV358QDDUR	296-17469-2-ND	Dual Low Voltage R/R Op Amp	8-VSSOP	1014.00/3,000		
LMV358QDGKR	296-17470-1-ND	Dual Low Voltage R/R Op Amp	8-MSOP	.78	.65	.52
LMV358QDGKR	296-17470-2-ND	Dual Low Voltage R/R Op Amp	8-MSOP	845.00/2,500		
LMV358QDR	296-17471-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.96	.72	.54
LMV358QDR	296-17471-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	780.00/2,500		
LMV358QPWR	296-17472-1-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	.96	.72	.54
LMV358QPWR	296-17472-2-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	638.00/2,000		
LMV710IDBVR	296-17853-1-ND	Low Power R/R I/O Op Amp	SOT-23-5	.93	.78	.62
LMV710IDBVR	296-17853-2-ND	Low Power R/R I/O Op Amp	SOT-23-5	1209.00/3,000		
LMV710IDCKR	296-17854-1-ND	Low Power R/R I/O Op Amp	SC70-5	.93	.78	.62
LMV710IDCKR	296-17854-2-ND	Low Power R/R I/O Op Amp	SC70-5	1209.00/3,000		
LMV711IDBVR	296-18000-1-ND	Single, Low Power, R/R I/O Op Amp	SOT-23-5	.93	.78	.62
LMV711IDBVR	296-18000-2-ND	Single, Low Power, R/R I/O Op Amp	SOT-23-5	1209.00/3,000		
LMV711IDCKR	296-18001-1-ND	Single, Low Power, R/R I/O Op Amp	SC70-6	.93	.78	.62
LMV711IDCKR	296-18001-2-ND	Single, Low Power, R/R I/O Op Amp	SC70-6	1209.00/3,000		
LMV821DBVR	296-18459-1-ND	Single, Low Voltage, R/R Op Amp	SOT-23-5	.96	.72	.54
LMV821DBVR	296-18459-2-ND	Single, Low Voltage, R/R Op Amp	SOT-23-5	936.00/3,000		
LMV821DCKR	296-18460-1-ND	Single, Low Voltage, R/R Op Amp	SC70-5	.96	.72	.54
LMV821DCKR	296-18460-2-ND	Single, Low Voltage, R/R Op Amp	SC70-5	936.00/3,000		
LMV821IDBVR	296-18461-1-ND	Single, Low Voltage, R/R Op Amp	SOT-23-5	.90	.75	.60
LMV821IDBVR	296-18461-2-ND	Single, Low Voltage, R/R Op Amp	SOT-23-5	1170.00/3,000		
LMV821IDCKR	296-18462-1-ND	Single, Low Voltage, R/R Op Amp	SC70-5	.90	.75	.60
LMV821IDCKR	296-18462-2-ND	Single, Low Voltage, R/R Op Amp	SC70-5	1170.00/3,000		
LMV822DGKR	296-17406-1-ND	Dual Low Voltage R/R Op Amp	8-MSOP	.78	.65	.52
LMV822DGKR	296-17406-2-ND	Dual Low Voltage R/R Op Amp	8-MSOP	845.00/2,500		
LMV822DR	296-18463-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.78	.65	.52
LMV822DR	296-18463-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	845.00/2,500		
LMV822IDGKR	296-17407-1-ND	Dual Low Voltage R/R Op Amp	8-MSOP	.96	.80	.64
LMV822IDGKR	296-17407-2-ND	Dual Low Voltage R/R Op Amp	8-MSOP	1040.00/2,500		
LMV822IDR	296-18464-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	.96	.80	.64
LMV822IDR	296-18464-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	1040.00/2,500		
LMV824DGVR	296-17522-1-ND	Quad Low Voltage R/R Op Amp	14-TVSOP	1.02	.85	.68
LMV824DGVR	296-17522-2-ND	Quad Low Voltage R/R Op Amp	14-TVSOP	904.00/2,000		
LMV824DR	296-18465-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	.96	.80	.64
LMV824DR	296-18465-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	1040.00/2,500		
LMV824IDGVR	296-17523-1-ND	Quad Low Voltage R/R Op Amp	14-TVSOP	1.29	1.08	.86
LMV824IDGVR	296-17523-2-ND	Quad Low Voltage R/R Op Amp	14-TVSOP	1144.00/2,000		
LMV824IDR	296-18466-1-ND	Quad Low Voltage R/R Op Amp	14-SOIC	1.23	1.03	.82
LMV824IDR	296-18466-2-ND	Quad Low Voltage R/R Op Amp	14-SOIC	1332.50/2,500		
LMV824IPWR	296-18467-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	1.23	1.03	.82
LMV824IPWR	296-18467-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	1090.00/2,000		
LMV824PWR	296-18468-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	.96	.80	.64
LMV824PWR	296-18468-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	852.00/2,000		
LMV931IDBVR	296-18469-1-ND	1.8V R/R In/Out Op Amp	SOT-23-5	.78	.65	.52
LMV931IDBVR	296-18469-2-ND	1.8V R/R In/Out Op Amp	SOT-23-5	1014.00/3,000		
LMV931IDCKR	296-17996-1-ND	1.8V R/R In/Out Op Amp	SC70-5	.78	.65	.52
LMV931IDCKR	296-17996-2-ND	1.8V R/R In/Out Op Amp	SC70-5	1014.00/3,000		
LMV931QDBVRQ1	296-19312-1-ND	1.8V R/R In/Out Op Amp ***NEW!***	SOT-23-5	1.02	.85	.68
LMV931QDBVRQ1	296-19312-2-ND	1.8V R/R In/Out Op Amp ***NEW!***	SOT-23-5	1326.00/3,000		
LMV932IDGKR	296-17910-1-ND	1.8V Dual Op Amp	8-MSOP	.96	.80	.64
LMV932IDGKR	296-17910-2-ND	1.8V Dual Op Amp	8-MSOP	1040.00/2,500		
LMV932IDR	296-17911-1-ND	1.8V Dual Op Amp	8-SOIC	.84	.70	.56
LMV932IDR	296-17911-2-ND	1.8V Dual Op Amp	8-SOIC	910.00/2,500		
LMV981IDBVR	296-18470-1-ND	1.8V R/R In/Out Op Amp with Shutdown	SOT-23-6	.96	.80	.64

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMV981IDBVR	296-18470-2-ND	1.8V R/R In/Out Op Amp with Shutdown	SOT-23-6	1248.00/3,000		
LMV981IDCKR	296-18471-1-ND	1.8V R/R In/Out Op Amp with Shutdown	SC70-6	.96	.80	.64
LMV981IDCKR	296-18471-2-ND	1.8V R/R In/Out Op Amp with Shutdown	SC70-6	1248.00/3,000		
LMV982IDGSR	296-17949-1-ND	1.8V R/R In/Out Op Amp	10-MSOP	1.08	.90	.72
LMV982IDGSR	296-17949-2-ND	1.8V R/R In/Out Op Amp	10-MSOP	1170.00/2,500		
LOG100JP	LOG100JP-ND	Prec. Logarithmic/Log Ratio Amp	14-Dip	141.92	132.46	123.00
LOG101AID	296-12850-5-ND	Prec. Logarithmic/Log Ratio Amp	8-SOIC	11.58	10.43	9.25
LOG102AID	LOG102AID-ND	Prec. Logarithmic/Log Ratio Amp	14-SOIC	12.08	10.88	9.65
LOG104AID	296-12851-5-ND	Prec. Logarithmic/Log Ratio Amp	8-SOIC	11.58	10.43	9.25
LOG112AID	296-13456-5-ND	Precision Logarithmic and Log Ratio Amp with On Chip 2.5 Volt. Reference	14-SOIC	13.16	11.85	10.51
LOG2112AIDW	296-13815-5-ND	Precision Logarithmic Amp	16-SOIC	17.03	15.89	14.76
LP324DR	296-17953-1-ND	Ultra Low Power, Quad Op Amp	14-SOIC	.60	.45	.34
LP324DR	296-17953-2-ND	Ultra Low Power, Quad Op Amp	14-SOIC	487.50/2,500		
LP324N	296-17954-5-ND	Ultra Low Power, Quad Op Amp	14-Dip	.60	.45	.34
LP324PWR	296-17955-1-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	.72	.54	.41
LP324PWR	296-17955-2-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	478.00/2,000		
LP2902DR	296-17950-1-ND	Ultra Low Power, Quad Op Amp	14-SOIC	.92	.69	.52
LP2902DR	296-17950-2-ND	Ultra Low Power, Quad Op Amp	14-SOIC	747.50/2,500		
LP2902N	296-17951-5-ND	Ultra Low Power, Quad Op Amp	14-Dip	.92	.69	.52
LP2902PWR	296-17952-1-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	.78	.65	.52
LP2902PWR	296-17952-2-ND	Ultra Low Power, Quad Op Amp	14-TSSOP	692.00/2,000		
LPV321DBVR	296-17715-1-ND	Low Volt., Low Power, R/R Op Amp	SOT-23-5	.92	.69	.52
LPV321DBVR	296-17715-2-ND	Low Volt., Low Power, R/R Op Amp	SOT-23-5	897.00/3,000		
LPV321DCKR	296-17716-1-ND	Low Volt., Low Power, R/R Op Amp	SC70-5	.92	.69	.52
LPV321DCKR	296-17716-2-ND	Low Volt., Low Power, R/R Op Amp	SC70-5	897.00/3,000		
LPV321IDBVR	296-17717-1-ND	Low Volt., Low Power, R/R Op Amp	SOT-23-5	.78	.65	.52
LPV321IDBVR	296-17717-2-ND	Low Volt., Low Power, R/R Op Amp	SOT-23-5	1014.00/3,000		
LPV321IDCKR	296-17718-1-ND	Low Volt., Low Power, R/R Op Amp	SC70-5	.78	.65	.52
LPV321IDCKR	296-17718-2-ND	Low Volt., Low Power, R/R Op Amp	SC70-5	1014.00/3,000		
LPV324DR	296-16815-1-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC	.90	.75	.60
LPV324DR	296-16815-2-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC	975.00/2,500		
LPV324IDR	296-16732-1-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC	.88	.66	.50
LPV324IDR	296-16732-2-ND	Quad, Low Voltage, R/R Op Amp	14-SOIC	1105.00/2,500		
LPV324IPWR	296-16731-1-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP	1.02	.85	.68
LPV324IPWR	296-16731-2-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP	904.00/2,000		
LPV324PWR	296-16816-1-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP	.90	.75	.60
LPV324PWR	296-16816-2-ND	Quad, Low Voltage, R/R Op Amp	14-TSSOP	798.00/2,000		
LPV358DDUR	296-17719-1-ND	Dual, Low Volt., Low Power, R/R Op Amp	8-VSSOP	.75	.63	.50
LPV358DDUR	296-17719-2-ND	Dual, Low Volt., Low Power, R/R Op Amp	8-VSSOP	975.00/3,000		
LPV358DGKR	296-17761-1-ND	Dual, Low Volt., Low Power R/R Op Amp	8-VSSOP	.75	.63	.50
LPV358DGKR	296-17761-2-ND	Dual, Low Volt., Low Power R/R Op Amp	8-VSSOP	812.50/2,500		
LPV358DR	296-17720-1-ND	Dual, Low Volt., Low Power, R/R Op Amp	8-SOIC	.75	.63	.50
LPV358DR	296-17720-2-ND	Dual, Low Volt., Low Power, R/R Op Amp	8-SOIC	812.50/2,500		
LPV358IDDUR	296-17721-1-ND	Dual, Low Volt., Low Power, R/R Op Amp	8-VSSOP	.84	.70	.56
LPV358IDDUR	296-17721-2-ND	Dual, Low Volt., Low Power, R/R Op Amp	8-VSSOP	1092.00/3,000		
LPV358IDGKR	296-17762-1-ND	Dual, Low Volt., Low Power R/R Op Amp	8-VSSOP	.78	.65	.52
LPV358IDGKR	296-17762-2-ND	Dual, Low Volt., Low Power R/R Op Amp	8-VSSOP	845.00/2,500		
LPV358IDR	296-17722-1-ND	Dual, Low Volt., Low Power, R/R Op Amp	8-SOIC	.78	.65	.52
LPV358IDR	296-17722-2-ND	Dual, Low Volt., Low Power, R/R Op Amp	8-SOIC	845.00/2,500		
LT1013CP	296-1399-5-ND	Dual Precision Op Amp	8-Dip	1.40	1.12	.84
LT1013DD	296-1400-5-ND	Dual Precision Op Amp	8-SOIC	1.55	1.24	.93
LT1013DDR	296-14615-1-ND	Dual Precision Op Amp	8-SOIC	1.55	1.24	.93
LT1013DDR	296-14615-2-ND	Dual Precision Op Amp	8-SOIC	1985.00/2,500		
LT1013DIDR	296-12982-1-ND	Dual Precision Op Amp	8-SOIC	1.63	1.30	.98
LT1013DIDR	296-12982-2-ND	Dual Precision Op Amp	8-SOIC	2080.00/2,500		
LT1013DIP	296-7044-5-ND	Dual Precision Op Amp	8-Dip	1.63	1.30	.98
LT1013DP	296-7045-5-ND	Dual Precision Op Amp	8-Dip	1.55	1.24	.93
LT1014CN	296-14616-5-ND	Quad Precision Op Amp	14-Dip	4.28	3.42	2.66
LT1014DIDW	296-7046-5-ND	Quad Precision Op Amp	16-SOIC	4.95	3.96	3.08
LT1014DIN	296-15322-5-ND	Quad Precision Op Amp	14-Dip	4.95	3.96	3.08
LT1014DN	296-7047-5-ND	Quad Precision Op Amp	14-Dip	4.28	3.42	2.66
LT1030CDR	296-14617-1-ND	Quad Low Power Line Driver	14-SOIC	2.00	1.60	1.20
LT1030CDR	296-14617-2-ND	Quad Low Power Line Driver	14-SOIC	2560.00/2,500		
MC1458D	296-9601-5-ND	Dual General Purpose Op Amp	8-SOIC	.55	.44	.33
MC1458DR	296-14622-1-ND	Dual General Purpose Op Amp	8-SOIC	.55	.44	.33
MC1458DR	296-14622-2-ND	Dual General Purpose Op Amp	8-SOIC	372.50/2,500		
MC1458P	296-1403-5-ND	Dual General Purpose Op Amp	8-Dip	.55	.44	.33
MC3303D	296-7033-5-ND	Quad LP Op Amp, -40°C to 85°C	14-SOIC	.76	.57	.43
MC3303N	296-7034-5-ND	Quad LP Op Amp, -40°C to 85°C	14-Dip	.76	.57	.43
MC3303PWR	296-11661-1-ND	Quad LP Op Amp, -40°C to 85°C	14-TSSOP	.76	.57	.43
MC3303PWR	296-11661-2-ND	Quad LP Op Amp, -40°C to 85°C	14-TSSOP	506.00/2,000		
MC3403D	296-7035-5-ND	Quad Low Power GP Op Amp	14-SOIC	.76	.57	.43
MC3403DR	296-14623-1-ND	Quad Low Power GP Op Amp	14-SOIC	.76	.57	.43
MC3403DR	296-14623-2-ND	Quad Low Power GP Op Amp	14-SOIC	617.50/2,500		
MC3403N	296-1406-5-ND	Quad Low Power GP Op Amp	14-Dip	.76	.57	.43
MC3403NSR	296-1407-1-ND	Quad Low Power GP Op Amp	14-SOP	.76	.57	.43
MC3403NSR	296-1407-2-ND	Quad Low Power GP Op Amp	14-SOP	506.00/2,000		
MC3403PWR	296-7036-1-ND	Quad Low Power GP Op Amp	14-TSSOP	.76	.57	.43
MC3403PWR	296-7036-2-ND	Quad Low Power GP Op Amp	14-TSSOP	506.00/2,000		
MC3487D	296-7039-5-ND	Quad Differential Line Driver	16-SOIC	.75	.63	.50
MC33078DGKR	296-17855-1-ND	Dual High Speed Low Noise Op Amp	8-MSOP	.78	.65	.52
MC33078DGKR	296-17855-2-ND	Dual High Speed Low Noise Op Amp	8-MSOP	845.00/2,500		
MC33078DR	296-17723-1-ND	Dual High Speed Low Noise Op Amp	8-SOIC	.80	.60	.45
MC33078DR	296-17723-2-ND	Dual High Speed Low Noise Op Amp	8-SOIC	650.00/2,500		
MC33078P	296-17724-5-ND	Dual High Speed Low Noise Op Amp	8-Dip	.96	.72	.54
MPA4609IPFBT	296-16678-1-ND	Quad, Diff. I/O 2x1 Multiplexed High Gain Preamp	48-TQFP	9.10	7.28	6.15
MPA4609IPFBT	296-16678-2-ND	Quad, Diff. I/O 2x1 Multiplexed High Gain Preamp	48-TQFP	1478.75/250		
NE5532ADR	296-13621-1-ND	Dual Low Noise Op Amp	8-SOIC	.84	.70	.56
NE5532ADR	296-13621-2-ND	Dual Low Noise Op Amp	8-SOIC	910.00/2,500		
NE5532AP	296-7040-5-ND	Dual Low Noise Op Amp	8-Dip	.84	.70	.56
NE5532APSR	296-13103-1-ND	Dual Low Noise Op Amp	8-SOP	.84	.70	.56
NE5532APSR	296-13103-2-ND	Dual Low Noise Op Amp	8-SOP	744.00/2,000		
NE5532DR	296-13622-1-ND	Dual Low Noise Op Amp	8-SOIC	.80	.60	.45
NE5532DR	296-13622-2-ND	Dual Low Noise Op Amp	8-SOIC	650.00/2,500		
NE5532P	296-1410-5-ND	Dual Low Noise Op Amp	8-Dip	.80	.60	.45
NE5532PSR	296-12641-1-ND	Dual Low Noise Op Amp	8-SOP	.80	.60	.45
NE5532PSR	296-12641-2-ND	Dual Low Noise Op Amp	8-SOP	532.00/2,000		
NE5534ADR	296-16943-1-ND	Low Noise HS Audio Op Amp	8-SOIC	1.14	.95	.76
NE5534ADR	296-16943-2-ND	Low Noise HS Audio Op Amp	8-SOIC	1235.00/2,500		
NE5534AP	296-7042-5-ND	Low Noise HS Audio Op Amp	8-Dip	1.14	.95	.76
NE5534D	296-14346-5-ND	Low Noise HS Audio Op Amp	8-SOIC	.96	.80	.64
NE5534P	296-7043-5-ND	Low Noise HS Audio Op Amp	8-Dip	.96	.80	.64
ONET2511TAY	296-17427-ND	2.5GBPS Transimpedance Amp, Bare-Die	—	6.50	5.20	4.39
ONET2591TAY	296-19315-ND	2.5GBPS Transimpdenace Amp ***NEW!***	11-Die	6.50	5.20	4.39
ONET4201LDRGET	296-19278-1-ND	155Mbps to 4.25GBPS Laser Driver	24-QFN	14.58	13.13	11.64
ONET4201LDRGET	296-19278-2-ND	155Mbps to 4.25GBPS Laser Driver	24-QFN	2789.00/250		
ONET4201PARGTR	296-19279-1-ND	155Mbps to 4.25GBPS Limiting Amp	16-QFN	11.58	10.43	9.25
ONET4201PARGTR	296-19279-2-ND	155Mbps to 4.25GBPS Limiting Amp	16-QFN	25332.00/3,000		
ONET4211LDRGET	296-19280-1-ND	155Mbps to 4.25GBPS Laser Driver	24-QFN	14.58	13.13	11.64
ONET4211LDRGET	296-19280-2-ND	155Mbps to 4.25GBPS Laser Driver	24-QFN	2789.00/250		
ONET4251PARGTR	296-19411-1-ND	1GBPS to 4.25GBPS Limiting Amp ***NEW!***	16-QFN	9.70	7.76	6.55
ONET4251PARGTR	296-19411-2-ND	1GBPS to 4.25GBPS Limiting Amp ***NEW!***	16-QFN	18042.00/3,000		
ONET4291PARGVR	296-18691-1-ND	1GBPS to 4.25GBPS Rate-Selectable Limiting Amp	16-QFN	8.66	7.80	6.92
ONET4291PARGVR	296-18691-2-ND	1GBPS to 4.25GBPS Rate-Selectable Limiting Amp	16-QFN	18954.00/3,000		
ONET4291TAY	296-19282-ND 296-19282-ND	4.25GBPS Transimpedance Amp ***NEW!***	10-XCEPT	6.50	5.20	4.39
ONET4291VARGP	296-18692-1-ND	1GBPS to 4.25GBPS Multi-Rate VCSEL Driver	20-QFN	9.16	8.25	7.32
ONET4291VARGP	296-18692-2-ND	1GBPS to 4.25GBPS Multi-Rate VCSEL Driver	20-QFN	20049.00/3,000		
ONET9901PARGP	296-17055-5-ND	10.7GBPS Limiting Amp	20-QFN	152.00	114.00	85.50
OP-07DPSR	296-14171-1-ND	Low Noise Precision Op Amp	8-SOIC	.75	.63	.50
OP-07DPSR	296-14171-2-ND	Low Noise Precision Op Amp	8-SOIC	666.00/2,000		
OP07CD	296-12852-5-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.96	.80	.64
OP07CDR	296-14626-1-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.96	.80	.64
OP07CDR	296-14626-2-ND	Low Offset Voltage Precision Op Amp	8-SOIC	1040.00/2,500		
OP07CP	296-12853-5-ND	Low Offset Voltage Precision Op Amp	8-Dip	.96	.80	.64
OP07DD	296-9621-5-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.90	.75	.60
OP07DDR	296-14627-1-ND	Low Offset Voltage Precision Op Amp	8-SOIC	.90	.75	.60
OP07DDR	296-14627-2-ND	Low Offset Voltage Precision Op Amp	8-SOIC	975.00/2,500		
OP07DP	296-9622-5-ND	Low Offset Voltage Precision Op Amp	8-Dip	.90	.75	.60
OPA27GP	OPA27GP-ND	Compensated, LN, Precision Op Amp	8-Dip	2.45	1.97	1.53
OPA27GU	OPA27GU-ND	Compensated, LN, Precision Op Amp	8-SOIC	2.45	1.97	1.53
OPA37GP	OPA37GP-ND	Uncompensated, LN, Precision Op Amp	8-Dip	2.57	2.06	1.60
OPA37GU	OPA37GU-ND	Uncompensated, LN, Prec. Op Amp	8-SOIC	2.57	2.06	1.60
OPA111AM	OPA111AM-ND	LN, Precision Op Amp (500µV Out)	TO-99	24.42	22.80	21.17
OPA111BM	OPA111BM-ND	LN, Precision Op Amp (250µV Out)	TO-99	39.72	37.08	34.43
OPA121KU	OPA121KU-ND	Low Cost, Precision DiFET Op Amp	8-SOIC	8.50	7.65	6.79
OPA124U	OPA124U-ND	Low Noise, Precision DiFET Op Amp	8-SOIC	7.90	6.32	5.34
OPA124UA	OPA124UA-ND	Low Noise, Precision DiFET Op Amp	8-SOIC	9.40	7.52	6.35
OPA128JM	OPA128JM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	50.12	46.78	43.44
OPA128KM	OPA128KM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	55.85	52.13	48.40
OPA128LM	OPA128LM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	61.34	57.25	53.16
OPA128SM	OPA128SM-ND	DiFET Electrometer-Grade Op Amp	TO-99-8	71.97	67.18	62.38
OPA129U	OPA129U-ND	Ultra-Low Bias Current DiFET Op Amp	8-SOIC	6.40	5.12	4.32
OPA129UB	OPA129UB-ND	Ultra-Low Bias Current DiFET Op Amp	8-SOIC	9.08	8.18	7.25
OPA130UA	OPA130UA-ND	Low Power, Precision, FET-In Op Amp	8-SOIC	3.15	2.52	1.96
OPA131U	OPA131U-ND	General Purpose FET-Input Op Amp	8-SOIC	4.73	3.78	2.94
OPA131UA	OPA131UA-ND	General Purpose FET-Input Op Amp	8-SOIC	2.59	2.07	1.61
OPA131UJ	OPA131UJ-ND	General Purpose FET-Input Op Amp	8-SOIC	1.88	1.50	1.13
OPA132U	OPA132U-ND	High Speed FET-Input Op Amp	8-SOIC	5.70	4.56	3.85
OPA132UA	OPA132UA-ND	High Speed FET-Input Op Amp	8-SOIC	3.26	2.61	2.03
OPA134PA	OPA134PA-ND	High Performance Audio Op Amp	8-Dip	2.25	1.80	1.35
OPA134UA	OPA134UA-ND	High Performance Audio Op Amp	8-SOIC	2.25	1.80	1.35
OPA137N/250	OPA137NCT-ND	Low Cost FET-Input Op Amp	SOT-23-5	2.25	1.80	1.40
OPA137N/250	OPA137NTR-ND	Low Cost FET-Input Op Amp	SOT-23-5	332.50/250		
OPA137NA/250	OPA137NACT-ND	Low Cost FET-Input Op Amp	SOT-23-5	1.63	1.30	.98
OPA137NA/250	OPA137NATR-ND	Low Cost FET-Input Op Amp	SOT-23-5	227.50/250		
OPA137P	OPA137P-ND	Low Cost FET-Input Op Amp	8-Dip	2.38	1.90	1.43
OPA137PA	OPA137PA-ND	Low Cost FET-Input Op Amp	8-Dip	1.50	1.20	.90
OPA137U	OPA137U-ND	Low Cost FET-Input Op Amp	8-SOIC	2.38	1.90	1.43
OPA137UA	OPA137UA-ND	Low Cost FET-Input Op Amp	8-SOIC	1.50	1.20	.90
OPA177FP	OPA177FP-ND	Precision Op Amp	8-Dip	5.45	4.36	3.39
OPA177GP	OPA177GP-ND	Precision Op Amp	8-Dip	1.90	1.52	1.14
OPA177GS	OPA177GS-ND	Precision Op Amp	8-SOIC	1.90	1.52	1.14
OPA227P	OPA227P-ND	High Precision, Low Noise Op Amp	8-Dip	5.02	4.02	3.13
OPA227PA	OPA227PA-ND	High Precision, Low Noise Op Amp	8-Dip	2.36	1.89	1.47
OPA227U	OPA227U-ND	High Precision, Low Noise Op Amp	8-SOIC	5.02	4.02	3.13
OPA227UA	OPA227UA-ND	High Precision, Low Noise Op Amp	8-SOIC	2.36	1.89	1.47
OPA228P	OPA228P-ND	Low Noise Precision Op Amp	8-Dip	5.02	4.02	3.13
OPA228PA	OPA228PA-ND	Low Noise Precision Op Amp	8-Dip	2.36	1.89	1.47
OPA228U	OPA228U-ND	Low Noise Precision Op Amp	8-SOIC	5.02	4.02	3.13
OPA228UA	OPA228UA-ND	Low Noise Precision Op Amp	8-SOIC	2.36	1.89	1.47
OPA234E/250	OPA234ECT-ND	Low Power Single-Supply Op Amp	8-MSOP	3.53	2.83	2.20
OPA234E/250	OPA234ETR-ND	Low Power Single-Supply Op Amp	8-MSOP	522.00/250		
OPA234EA/250	OPA234EACT-ND	Low Power Single-Supply Op Amp	8-MSOP	2.45	1.97	1.53
OPA234EA/250	OPA234EATR-ND	Low Power Single-Supply Op Amp	8-MSOP	362.50/250		
OPA234U	OPA234U-ND	Low Power Single-Supply Op Amp	8-SOIC	3.22	2.58	2.01
OPA234UA	OPA234UA-ND	Low Power Single-Supply Op Amp	8-SOIC	2.25	1.80	1.40
OPA237NA/250	OPA237NACT-ND	Single-Supply Op Amp	SOT-23-5	1.50	1.20	.90

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA237NA/250	OPA237NATR-ND	Single-Supply Op Amp	SOT-23-5	210.00/250		
OPA237UA	OPA237UA-ND	Single-Supply Op Amp	8-SOIC	1.38	1.10	.83
OPA241PA	OPA241PA-ND	Single-Supply, Micropower, Low Voltage Op Amp	8-Dip	2.59	2.07	1.61
OPA241UA	OPA241UA-ND	Single-Supply, Micropower, Low Voltage Op Amp	8-SOIC	2.59	2.07	1.61
OPA244NA/250	OPA244NACT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	1.43	1.14	.86
OPA244NA/250	OPA244NATR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	199.50/250		
OPA244PA	OPA244PA-ND	Single-Supply, Micropower Op Amp	8-Dip	1.30	1.04	.78
OPA244UA	OPA244UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	1.30	1.04	.78
OPA251PA	OPA251PA-ND	Single-Supply, Micropower Op Amp	8-Dip	2.59	2.07	1.61
OPA251UA	OPA251UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	2.59	2.07	1.61
OPA277P	OPA277P-ND	High Precision Op Amp	8-Dip	4.50	3.60	2.80
OPA277PA	OPA277PA-ND	High Precision Op Amp	8-Dip	2.03	1.62	1.22
OPA277U	OPA277U-ND	High Precision Op Amp	8-SOIC	4.50	3.60	2.80
OPA277UA	OPA277UA-ND	High Precision Op Amp	8-SOIC	2.03	1.62	1.22
OPA300AID	296-15087-5-ND	Low Noise, High Speed, 16-Bit CMOS Op Amp	8-SOIC	2.81	2.25	1.75
OPA300AIDBVT	296-18506-1-ND	Low Noise, High Speed, 16-Bit CMOS Op Amp	SOT-23-6	3.15	2.52	1.96
OPA300AIDBVT	296-18506-2-ND	Low Noise, High Speed, 16-Bit CMOS Op Amp	SOT-23-6	465.50/250		
OPA301AID	296-17236-5-ND	Low Noise, High Speed CMOS Op Amp	8-SOIC	2.81	2.25	1.75
OPA301AIDBVT	296-16905-1-ND	Low Noise, High Speed CMOS Op Amp	8-SOIC	3.15	2.52	1.96
OPA301AIDBVT	296-16905-2-ND	Low Noise, High Speed CMOS Op Amp	8-SOIC	465.50/250		
OPA333AID	296-19545-5-ND	1.8V MPU CMOS Op Amp ***NEW!***	8-SOIC	2.38	1.90	1.43
OPA333AIDBVT	296-19546-1-ND	1.8V MPU CMOS Op Amp ***NEW!***	SOT-23-5	2.36	1.89	1.47
OPA333AIDBVT	296-19546-2-ND	1.8V MPU CMOS Op Amp ***NEW!***	SOT-23-5	349.25/250		
OPA333AIDCKR	296-19547-1-ND	1.8V MPU CMOS Op Amp ***NEW!***	SC70-5	2.38	1.90	1.43
OPA333AIDCKR	296-19547-2-ND	1.8V MPU CMOS Op Amp ***NEW!***	SC70-5	3648.00/3,000		
OPA334AIDBVT	296-13466-1-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-6	2.48	1.98	1.54
OPA334AIDBVT	296-13466-2-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-6	365.75/250		
OPA335AID	296-13467-5-ND	Single-Supply CMOS Zero Drift Op Amp	8-SOIC	2.25	1.80	1.40
OPA335AIDBVT	296-13468-1-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-5	2.48	1.98	1.54
OPA335AIDBVT	296-13468-2-ND	Single-Supply CMOS Zero Drift Op Amp	SOT-23-5	365.75/250		
OPA336U	OPA336U-ND	Single-Supply, Micropower Op Amp	8-SOIC	2.38	1.90	1.43
OPA336N/250	OPA336NCT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	2.36	1.89	1.47
OPA336N/250	OPA336NTR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	349.25/250		
OPA336NA/250	OPA336NACT-ND	Single-Supply, Micropower Op Amp	SOT-23-5	1.75	1.40	1.05
OPA336NA/250	OPA336NATR-ND	Single-Supply, Micropower Op Amp	SOT-23-5	245.00/250		
OPA336UA	OPA336UA-ND	Single-Supply, Micropower Op Amp	8-SOIC	1.63	1.30	.98
OPA337EA/250	OPA337EACT-ND	Single-Supply, CMOS Op Amp	8-MSOP	1.41	1.18	.94
OPA337EA/250	OPA337EATR-ND	Single-Supply, CMOS Op Amp	8-MSOP	176.25/250		
OPA337NA/250	OPA337NACT-ND	Single-Supply, CMOS Op Amp	SOT-23-5	1.41	1.18	.94
OPA337NA/250	OPA337NATR-ND	Single-Supply, CMOS Op Amp	SOT-23-5	176.25/250		
OPA337PA	OPA337PA-ND	Single-Supply, CMOS Op Amp	8-Dip	1.29	1.08	.86
OPA337UA/2K5	OPA337UACT-ND	Single-Supply, CMOS Op Amp	8-SOIC	1.29	1.08	.86
OPA337UA	OPA337UA-ND	Single-Supply, CMOS Op Amp	8-SOIC	1.29	1.08	.86
OPA337UA/2K5	OPA337UATR-ND	Single-Supply, CMOS Op Amp	8-SOIC	1397.50/2,500		
OPA338NA/250	OPA338NACT-ND	Decompensated Single-Supply CMOS Op Amp	SOT-23-5	1.41	1.18	.94
OPA338NA/250	OPA338NATR-ND	Decompensated Single-Supply CMOS Op Amp	SOT-23-5	176.25/250		
OPA338UA	OPA338UA-ND	Decompensated Single-Supply CMOS Op Amp	8-SOIC	1.29	1.08	.86
OPA340NA/250	OPA340NACT-ND	Single-Supply, R/R Op Amp	SOT-23-5	2.03	1.62	1.22
OPA340NA/250	OPA340NATR-ND	Single-Supply, R/R Op Amp	SOT-23-5	283.50/250		
OPA340PA	OPA340PA-ND	Single-Supply, R/R Op Amp	8-Dip	1.90	1.52	1.14
OPA340UA	OPA340UA-ND	Single-Supply, R/R Op Amp	8-SOIC	1.90	1.52	1.14
OPA341NA/3K	OPA341NA/3KCT-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	SOT-23-6	1.78	1.42	1.07
OPA341NA/3K	OPA341NA/3KTR-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	SOT-23-6	2727.00/3,000		
OPA341UA	OPA341UA-ND	Single-Supply R/R In/Out, LP Op Amp with Shutdown	8-SOIC	1.78	1.42	1.07
OPA342NA/250	OPA342NACT-ND	Low Cost Micropower R/R Op Amp	SOT-23-5	1.68	1.34	1.01
OPA342NA/250	OPA342NATR-ND	Low Cost Micropower R/R Op Amp	SOT-23-5	234.50/250		
OPA342UA	OPA342UA-ND	Low Cost Micropower R/R Op Amp	8-SOIC	1.43	1.14	.86
OPA343NA/250	OPA343NACT-ND	Single Supply Op Amp	SOT-23-5	1.55	1.24	.93
OPA343NA/250	OPA343NATR-ND	Single Supply Op Amp	SOT-23-5	217.00/250		
OPA343UA	OPA343UA-ND	Single Supply Op Amp	8-SOIC	1.43	1.14	.86
OPA344NA/250	OPA344NACT-ND	Single Supply Op Amp	SOT-23-5	1.55	1.24	.93
OPA344NA/250	OPA344NATR-ND	Single Supply Op Amp	SOT-23-5	217.00/250		
OPA344PA	OPA344PA-ND	Single Supply Op Amp	8-Dip	1.30	1.04	.78
OPA344UA	OPA344UA-ND	Single Supply Op Amp	8-SOIC	1.30	1.04	.78
OPA345NA/250	OPA345NACT-ND	Single Supply Op Amp	SOT-23-5	1.55	1.24	.93
OPA345NA/250	OPA345NATR-ND	Single Supply Op Amp	SOT-23-5	217.00/250		
OPA345UA	OPA345UA-ND	Single Supply Op Amp	8-SOIC	1.30	1.04	.78
OPA347NA/250	OPA347NACT-ND	Micropower R/R, I/O Op Amp	SOT-23-5	1.30	1.04	.78
OPA347NA/250	OPA347NATR-ND	Micropower R/R, I/O Op Amp	SOT-23-5	182.00/250		
OPA347PA	OPA347PA-ND	Micropower R/R, I/O Op Amp	8-Dip	1.38	1.15	.92
OPA347SA/3K	296-13469-1-ND	Micropower R/R, I/O Op Amp	SC-70	1.44	1.20	.96
OPA347SA/3K	296-13469-2-ND	Micropower R/R, I/O Op Amp	SC-70	1872.00/3,000		
OPA347UA	OPA347UA-ND	Micropower R/R, I/O Op Amp	8-SOIC	1.38	1.15	.92
OPA347UA/2K5	OPA347UATR-ND	Micropower R/R, I/O Op Amp	8-SOIC	1495.00/2,500		
OPA348AID	296-12275-5-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	8-SOIC	1.29	1.08	.86
OPA348AIDBVT	296-12276-1-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SOT-23-5	1.44	1.20	.96
OPA348AIDBVT	296-12276-2-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SOT-23-5	180.00/250		
OPA348AIDCKT	296-12728-1-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SC70-5	1.44	1.20	.96
OPA348AIDCKT	296-12728-2-ND	1MHz, 45µA, R/R, I/O CMOS Op Amp	SC70-5	180.00/250		
OPA349SA/3K	296-14451-1-ND	1µA, Rail-to-Rail I/O CMOS Op Amp	SC70-5	1.88	1.50	1.13
OPA349SA/3K	296-14451-2-ND	1µA, Rail-to-Rail I/O CMOS Op Amp	SC70-5	2880.00/3,000		
OPA350EA/250	OPA350EACT-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-MSOP	2.25	1.80	1.35
OPA350EA/250	OPA350EATR-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-MSOP	315.00/250		
OPA350PA	OPA350PA-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-Dip	2.03	1.62	1.22
OPA350UA	OPA350UA-ND	HS, Single-Supply CMOS Op Amp (35MHz)	8-SOIC	2.03	1.62	1.22
OPA353NA/250	OPA353NACT-ND	HS, Single-Supply, R/R CMOS Op Amp	SOT-23-5	2.36	1.89	1.47
OPA353NA/250	OPA353NATR-ND	HS, Single-Supply, R/R CMOS Op Amp	SOT-23-5	349.25/250		
OPA353UA	OPA353UA-ND	HS, Single-Supply, R/R CMOS Op Amp (35MHz)	8-SOIC	2.38	1.90	1.43
OPA354AIDBVT	296-13033-1-ND	250MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	1.88	1.50	1.13
OPA354AIDBVT	296-13033-2-ND	250MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	262.50/250		
OPA354AIDDA	296-13785-5-ND	250MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.75	1.40	1.05
OPA355NA/250	296-11641-1-ND	High Speed, Video Op Amp	SOT-23-6	1.75	1.40	1.05
OPA355NA/250	296-11641-2-ND	High Speed, Video Op Amp	SOT-23-6	245.00/250		
OPA355NA/3K	296-14628-1-ND	200MHz, Op Amp with Shutdown	SOT23-6	1.75	1.40	1.05
OPA355NA/3K	296-14628-2-ND	200MHz, Op Amp with Shutdown	SOT23-6	2688.00/3,000		
OPA355UA	296-11647-5-ND	High Speed, Video Op Amp	8-SOIC	1.75	1.40	1.05
OPA356AID	296-12407-5-ND	2.5V, Single CMOS Op Amp	8-SOIC	1.75	1.40	1.05
OPA357AIDBVT	296-13009-1-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	SOT-23-6	1.88	1.50	1.13
OPA357AIDBVT	296-13009-2-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	SOT-23-6	262.50/250		
OPA357AIDDA	296-13786-5-ND	High Speed, R/R, In/Out, CMOS Op Amp with Shutdown	8-SOIC	1.75	1.40	1.05
OPA358AIDCKT	296-17414-1-ND	3V Single-Supply 80MHz, High Speed Op Amp	SC70-6	1.25	1.00	.75
OPA358AIDCKT	296-17414-2-ND	3V Single-Supply 80MHz, High Speed Op Amp	SC70-6	175.00/250		
OPA360AIDCKT	296-17129-1-ND	3V Video Amp	SC70-6	1.38	1.10	.83
OPA360AIDCKT	296-17129-2-ND	3V Video Amp	SC70-6	192.50/250		
OPA361AIDCKT	296-18695-1-ND	3V Video Amp	SC70-6	1.38	1.10	.83
OPA361AIDCKT	296-18695-2-ND	3V Video Amp	SC70-6	192.50/250		
OPA361AIDCKTG4	296-18696-1-ND	3V Video Amp	SC70-6	1.38	1.10	.83
OPA361AIDCKTG4	296-18696-2-ND	3V Video Amp	SC70-6	192.50/250		
OPA363AID	296-13880-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	1.50	1.20	.90
OPA363AIDBVT	296-13881-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	1.63	1.30	.98
OPA363AIDBVT	296-13881-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	227.50/250		
OPA363ID	296-13882-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	2.13	1.70	1.28
OPA363IDBVR	296-16727-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	2.13	1.70	1.28
OPA363IDBVR	296-16727-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	3264.00/3,000		
OPA363IDBVT	296-13883-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	2.25	1.80	1.35
OPA363IDBVT	296-13883-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-6	315.00/250		
OPA364AID	296-13884-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	1.50	1.20	.90
OPA364AIDBVT	296-13885-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	1.63	1.30	.98
OPA364AIDBVT	296-13885-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	227.50/250		
OPA364ID	296-13886-5-ND	7MHz, Single-Supply R/R Op Amp	8-SOIC	2.13	1.70	1.28
OPA364IDBVT	296-13887-1-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	2.25	1.80	1.35
OPA364IDBVT	296-13887-2-ND	7MHz, Single-Supply R/R Op Amp	SOT-23-5	315.00/250		
OPA373AID	296-15762-5-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.08	.90	.72
OPA373AIDBVT	296-15763-1-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-6	1.20	1.00	.80
OPA373AIDBVT	296-15763-2-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-6	150.00/250		
OPA374AID	296-15764-5-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	8-SOIC	1.08	.90	.72
OPA374AIDBVT	296-15765-1-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	1.20	1.00	.80
OPA374AIDBVT	296-15765-2-ND	6.5MHz, R/R, In/Out, CMOS Op Amp	SOT-23-5	150.00/250		
OPA379AID	296-19414-5-ND	1.8V, 90KHz R/R In/Out Op Amp ***NEW!***	8-SOIC	1.88	1.50	1.13
OPA380AID	296-16859-5-ND	Prec., HS, Transimpedance Amp	8-SOIC	4.39	3.51	2.73
OPA380AIDGKT	296-16860-1-ND	Prec., HS, Transimpedance Amp	8-MSOP	4.84	3.87	3.01
OPA380AIDGKT	296-16860-2-ND	Prec., HS, Transimpedance Amp	8-MSOP	715.00/250		
OPA381AIDGKT	296-17362-1-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-MSOP	3.60	2.88	2.24
OPA381AIDGKT	296-17362-2-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-MSOP	532.00/250		
OPA381AIDRBT	296-17363-1-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-DFN	3.60	2.88	2.24
OPA381AIDRBT	296-17363-2-ND	Precision, Low Power, 18MHz, Transimpedance Amp	8-DFN	532.00/250		
OPA404KP	OPA404KP-ND	Quad High Spd., Prec. DiFET Op Amp	14-Dip	12.58	11.33	10.05
OPA404KU	OPA404KU-ND	Quad High Spd., Prec. DiFET Op Amp	16-SOIC	11.91	10.73	9.51
OPA445AP	OPA445AP-ND	High Voltage Op Amp	8-Dip	9.50	7.60	6.42
OPA445AU	OPA445AU-ND	High Voltage Op Amp	8-SOIC	9.50	7.60	6.42
OPA452FAKTWT	296-15965-1-ND	80V, 50mA Op Amp	7-DDPAK	5.10	4.08	—
OPA452FAKTWT	296-15965-2-ND	80V, 50mA Op Amp	7-DDPAK	172.13/50		
OPA452TA-1	OPA452TA-1-ND	80V, 50mA Op Amp	TO-220-7	5.10	4.08	3.45
OPA452TA	OPA452TA-ND	80V, 50mA Op Amp	TO-220-7	5.10	4.08	3.45
OPA453FAKTWT	296-15966-1-ND	80V, 50mA Op Amp	7-DDPAK	5.10	4.08	—
OPA453FAKTWT	296-15966-2-ND	80V, 50mA Op Amp	7-DDPAK	172.15/50		
OPA453TA-1	OPA453TA-1-ND	80V, 50mA Op Amp	TO-220-7	5.10	4.08	3.45
OPA453TA	OPA453TA-ND	80V, 50mA Op Amp	TO-220-7	5.10	4.08	3.45
OPA501AM	OPA501AM-ND	High Voltage, High Current Op Amp	TO3-8	172.19	160.71	149.23
OPA512BM	OPA512BM-ND	Very-High Current, High Power Op Amp	TO3-8	154.08	143.81	133.54
OPA541AM	OPA541AM-ND	High Power Monolithic Op Amp	TO3-8	122.66	114.48	106.31
OPA541AP	OPA541AP-ND	High Power Monolithic Op Amp	TO-220-11	16.65	15.54	14.43
OPA544FKTTT	296-15905-1-ND	High Voltage, High Current Op Amp	5-DDPAK	11.41	10.28	—
OPA544FKTTT	296-15905-2-ND	High Voltage, High Current Op Amp	5-DDPAK	455.55/50		
OPA544T	OPA544T-ND	High Voltage, High Current Op Amp	TO-220-5	11.41	10.28	9.12
OPA547FKTWT	296-15967-1-ND	High Voltage, 60V, High Current (.5A) Op Amp	7-DDPAK	8.70	6.96	—
OPA547FKTWT	296-15967-2-ND	High Voltage, 60V, High Current (.5A) Op Amp	7-DDPAK	293.65/50		
OPA547T	OPA547T-ND	High Voltage, 60V, High Current (.5A) Op Amp	TO-220-7	8.70	6.96	5.88
OPA548FKTWT	296-15968-1-ND	High Voltage, 60V, High Current (3A) Op Amp	7-DDPAK	10.00	9.00	—
OPA548FKTWT	296-15968-2-ND	High Voltage, 60V, High Current (3A) Op Amp	7-DDPAK	399.00/50		
OPA548T	OPA548T-ND	High Voltage, 60V, High Current (3A) Op Amp	TO-220-7	10.00	9.00	7.98
OPA549S	OPA549S-ND	High Volt., High Current Op Amp	11-PFM	18.00	16.80	15.60

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
OPA549T	OPA549T-ND	High Volt., High Current Op Amp	TO-220-11	18.00	16.80	15.60
OPA551FAKTWT	296-15969-1-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	5.40	4.32	—
OPA551FAKTWT	296-15969-2-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	168.00/50		
OPA551PA	OPA551PA-ND	High Current/Power 60V, 200mA Op Amp	8-Dip	3.94	3.15	2.45
OPA551UA	OPA551UA-ND	High Current/Power 60V, 200mA Op Amp	8-SOIC	3.94	3.15	2.45
OPA552FAKTWT	296-15970-1-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	5.40	4.32	—
OPA552FAKTWT	296-15970-2-ND	High Current/Power 60V, 200mA Op Amp	7-DDPAK	168.00/50		
OPA552PA	OPA552PA-ND	High Current/Power 60V, 200mA Op Amp	8-Dip	3.94	3.15	2.45
OPA552UA	OPA552UA-ND	High Current/Power 60V, 200mA Op Amp	8-SOIC	3.94	3.15	2.45
OPA561PWP	OPA561PWP-ND	High Current, HS, Op Amp	20-HTSSOP	5.30	4.24	3.58
OPA567AIRHGT	296-18697-1-ND	R/R In/Out 2A Power Amp	12-QFN	4.61	3.69	2.87
OPA567AIRHGT	296-18697-2-ND	R/R In/Out 2A Power Amp	12-QFN	681.75/250		
OPA569AIDWP	296-14174-5-ND	Rail-to-Rail, 2A Power Amp	20-HSOP	6.20	4.96	4.19
OPA602AP	OPA602AP-ND	High-Speed, Precision DiFET Op Amp	8-Dip	7.60	6.08	5.13
OPA602AU	OPA602AU-ND	High-Speed, Precision DiFET Op Amp	8-SOIC	8.30	6.64	5.61
OPA602BP	OPA602BP-ND	High-Speed, Precision DiFET Op Amp	8-Dip	10.16	9.15	8.12
OPA604AP	OPA604AP-ND	FET-Input, Low Distortion Op Amp	8-Dip	2.36	1.89	1.47
OPA604AU	OPA604AU-ND	FET-Input, Low Distortion Op Amp	8-SOIC	2.36	1.89	1.47
OPA606KP	OPA606KP-ND	Wide Bandwidth DiFET Op Amp	8-Dip	6.70	5.36	4.53
OPA615ID	296-18291-5-ND	Wide Bandwidth, DC Restoration Circuit	14-SOIC	8.50	6.80	5.74
OPA627AP	OPA627AP-ND	Precision High-Speed DiFET Op Amp	8-Dip	18.38	17.15	15.93
OPA627AU	OPA627AU-ND	Precision High-Speed DiFET Op Amp	8-SOIC	18.38	17.15	15.93
OPA627BP	OPA627BP-ND	Precision High-Speed DiFET Op Amp	8-Dip	26.63	24.85	23.08
OPA627AM	OPA627AM-ND	Precision High-Speed DiFET Op Amp	TO-99-8	34.88	32.55	30.23
OPA633KP	OPA633KP-ND	High-Speed Buffer-Amp	8-Dip	9.08	8.18	7.25
OPA635N/250	OPA635NCT-ND	Wideband, R/R Op Amp w/Disable	SOT-23-6	3.11	2.49	1.94
OPA637AP	OPA637AP-ND	Precision High-Speed DiFET Op Amp	8-Dip	18.38	17.15	15.93
OPA637AU	OPA637AU-ND	Precision High-Speed DiFET Op Amp	8-SOIC	18.38	17.15	15.93
OPA637BP	OPA637BP-ND	Precision High-Speed DiFET Op Amp	8-Dip	26.63	24.85	23.08
OPA643N/250	OPA643NCT-ND	Wideband, Low Distortion, High Gain Op Amp	SOT-23-5	9.06	8.16	7.24
OPA643NB/250	OPA643NBCT-ND	Wideband, Low Distortion, High Gain Op Amp	SOT-23-5	9.06	8.16	7.24
OPA656N/250	OPA656N/250CT-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	7.80	6.24	5.27
OPA656N/250	OPA656N/250TR-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	1267.50/250		
OPA656NB/250	OPA656NB/250CT-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	8.58	7.73	6.85
OPA656NB/250	OPA656NB/250TR-ND	Wideband Voltage-Feedback FET-Input Op Amp	SOT-23-5	1641.50/250		
OPA656U	OPA656U-ND	Wideband Voltage-Feedback FET-Input Op Amp	8-SOIC	6.70	5.36	4.53
OPA656UB	OPA656UB-ND	Wideband Voltage-Feedback FET-Input Op Amp	8-SOIC	9.00	7.20	6.08
OPA657N/250	OPA657N/250CT-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	7.90	6.32	5.34
OPA657N/250	OPA657N/250TR-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	1283.75/250		
OPA657NB/250	OPA657NB/250CT-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	9.33	8.40	7.45
OPA657NB/250	OPA657NB/250TR-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	SOT-23-5	1785.00/250		
OPA657U	OPA657U-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	8-SOIC	7.60	6.08	5.13
OPA657UB	OPA657UB-ND	Low Noise Wideband Volt-Feedback FET-Input Op Amp	8-SOIC	9.90	7.92	6.69
OPA683ID	296-12854-5-ND	Very Low-Power, Current-Feedback Op Amp	8-SOIC	2.57	2.06	1.60
OPA683IDBVT	296-12855-1-ND	Very Low-Power, Current-Feedback Op Amp	SOT-23-6	2.88	2.31	1.80
OPA683IDBVT	296-12855-2-ND	Very Low-Power, Current-Feedback Op Amp	SOT-23-6	425.50/250		
OPA684ID	OPA684ID-ND	Low Power, Current-Feedback Op Amp	8-SOIC	2.88	2.31	1.80
OPA684IDBVT	OPA684IDBVTCT-ND	Low Power, Current-Feedback Op Amp with Disable	SOT-23-6	3.22	2.58	2.01
OPA684IDBVT	OPA684IDBVTTR-ND	Low Power, Current-Feedback Op Amp with Disable	SOT-23-6	475.50/250		
OPA690ID	OPA690ID-ND	Wideband Voltage-Feedback Op Amp with Disable	8-SOIC	2.88	2.31	1.80
OPA690IDBVT	OPA690IDBVTCT-ND	Wideband Voltage-Feedback Op Amp with Disable	SOT-23-6	3.22	2.58	2.01
OPA690IDBVT	OPA690IDBVTTR-ND	Wideband Voltage-Feedback Op Amp with Disable	SOT-23-6	475.50/250		
OPA691ID	OPA691ID-ND	Wideband Current-Feedback Op Amp with Disable	8-SOIC	3.11	2.49	1.94
OPA691IDBVT	OPA691IDBVTCT-ND	Wideband Current-Feedback Op Amp with Disable	SOT-23-6	3.42	2.74	2.13
OPA691IDBVT	OPA691IDBVTTR-ND	Wideband Current-Feedback Op Amp with Disable	SOT-23-6	505.50/250		
OPA692ID	OPA692ID-ND	Wideband Video Buffer Amp with Disable	8-SOIC	2.45	1.97	1.53
OPA692IDBVT	296-15364-1-ND	Wideband Video Buffer Amp with Disable	SOT-23-6	2.79	2.24	1.74
OPA692IDBVT	296-15364-2-ND	Wideband Video Buffer Amp with Disable	SOT-23-6	412.25/250		
OPA693ID	296-16638-5-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	8-SOIC	2.79	2.24	1.74
OPA693IDBVT	296-16639-1-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	SOT-23-6	3.11	2.49	1.94
OPA693IDBVT	296-16639-2-ND	Ultra-Wideband, Fixed Gain Video Buffer Amp	SOT-23-6	458.75/250		

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
OPA694ID	296-17507-5-ND	Wideband, Low Power, Current Feedback Op Amp	8-SOIC	2.68	2.15	1.67
OPA694IDBVT	296-17503-1-ND	Wideband, Low Power, Current Feedback Op Amp	SOT-23-5	2.99	2.40	1.87
OPA694IDBVT	296-17503-2-ND	Wideband, Low Power, Current Feedback Op Amp	SOT-23-5	442.25/250		
OPA695ID	296-16756-5-ND	Ultra-Wideband, Current-Feedback Op Amp	8-SOIC	2.88	2.31	1.80
OPA695IDBVT	296-16854-1-ND	Ultra-Wideband, Current-Feedback Op Amp	SOT-23-6	3.22	2.58	2.01
OPA695IDBVT	296-16854-2-ND	Ultra-Wideband, Current-Feedback Op Amp	SOT-23-6	475.50/250		
OPA698ID	296-15860-5-ND	Wideband, Unity-Gain Stable Voltage Limiting Amp	8-SOIC	4.28	3.42	2.66
OPA699ID	296-15876-5-ND	Wideband, High-Gain Voltage Limiting Amp	8-SOIC	4.39	3.51	2.73
OPA703NA/250	296-9624-1-ND	CMOS R/R I/O Op Amp	SOT-23-5	3.15	2.52	1.96
OPA703NA/250	296-9624-2-ND	CMOS R/R I/O Op Amp	SOT-23-5	465.50/250		
OPA703PA	OPA703PA-ND	1MHz, CMOS R/R I/O Op Amp	8-Dip	2.93	2.34	1.82
OPA703UA	OPA703UA-ND	1MHz, CMOS R/R I/O Op Amp	8-SOIC	2.93	2.34	1.82
OPA704NA/3K	OPA704NA/3KCT-ND	3MHz, CMOS R/R I/O Op Amp	5-SOP	2.93	2.34	1.82
OPA704NA/3K	OPA704NA/3KTR-ND	3MHz, CMOS R/R I/O Op Amp	5-SOP	4914.00/3,000		
OPA704PA	OPA704PA-ND	3MHz, CMOS R/R I/O Op Amp	8-Dip	2.93	2.34	1.82
OPA704UA	OPA704UA-ND	3MHz, CMOS R/R I/O Op Amp	8-SOIC	2.93	2.34	1.82
OPA705NA/3K	OPA705NA/3KCT-ND	1MHz, CMOS R/R In/Out Op Amp	SOT-23-5	1.50	1.20	.90
OPA705NA/3K	OPA705NA/3KTR-ND	1MHz, CMOS R/R In/Out Op Amp	SOT-23-5	2304.00/3,000		
OPA705PA	OPA705PA-ND	1MHz, CMOS R/R In/Out Op Amp	8-Dip	1.50	1.20	.90
OPA705UA	OPA705UA-ND	1MHz, CMOS R/R In/Out Op Amp	8-SOIC	1.50	1.20	.90
OPA725AID	296-15766-5-ND	20MHz, 12V, Low-Noise, High Speed, CMOS Op Amp	8-SOIC	2.25	1.80	1.35
OPA725AIDBVT	296-15767-1-ND	20MHz, 12V, Low-Noise, High Speed, CMOS Op Amp	SOT-23-5	2.25	1.80	1.40
OPA725AIDBVT	296-15767-2-ND	20MHz, 12V, Low-Noise, High Speed, CMOS Op Amp	SOT-23-5	332.50/250		
OPA726AIDGKT	296-15861-1-ND	12V, CMOS Op Amp	8-MSOP	2.25	1.80	1.40
OPA726AIDGKT	296-15861-2-ND	12V, CMOS Op Amp	8-MSOP	332.50/250		
OPA727AIDGKT	296-17415-1-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-MSOP	2.36	1.89	1.47
OPA727AIDGKT	296-17415-2-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-MSOP	349.25/250		
OPA727AIDRBT	296-17416-1-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-DFN	2.36	1.89	1.47
OPA727AIDRBT	296-17416-2-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-DFN	349.25/250		
OPA728AIDGKT	296-17657-1-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-MSOP	2.36	1.89	1.47
OPA728AIDGKT	296-17657-2-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-MSOP	349.25/250		
OPA728AIDRBT	296-17417-1-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-DFN	2.36	1.89	1.47
OPA728AIDRBT	296-17417-2-ND	e-trim™ 20MHz, High Precision CMOS Op Amp	8-DFN	349.25/250		
OPA734AID	296-18507-5-ND	Single Supply, Zero-Drift, CMOS Op Amp	8-SOIC	2.81	2.25	1.75
OPA734AIDBVT	296-18508-1-ND	Single Supply, Zero-Drift, CMOS Op Amp	SOT-23-6	3.15	2.52	1.96
OPA734AIDBVT	296-18508-2-ND	Single Supply, Zero-Drift, CMOS Op Amp	SOT-23-6	465.50/250		
OPA735AID	296-17995-ND	Single-Supply, Zero-Drift, CMOS Op Amp	8-SOIC	2.81	2.25	1.75
OPA735AIDBVT	296-17229-1-ND	Single-Supply, Zero-Drift, CMOS Op Amp	SOT-23-5	3.15	2.52	1.96
OPA735AIDBVT	296-17229-2-ND	Single-Supply, Zero-Drift, CMOS Op Amp	SOT-23-5	465.50/250		
OPA743NA/3K	OPA743NA/3KCT-ND	7MHz, CMOS R/R I/O Op Amp	5-SOP	2.38	1.90	1.43
OPA743NA/3K	OPA743NA/3KTR-ND	7MHz, CMOS R/R I/O Op Amp	5-SOP	3648.00/3,000		
OPA743PA	OPA743PA-ND	7MHz, CMOS R/R I/O Op Amp	8-Dip	2.38	1.90	1.43
OPA743UA	OPA743UA-ND	7MHz, CMOS R/R I/O Op Amp	8-SOIC	2.38	1.90	1.43
OPA820ID	296-17130-5-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	8-SOIC	2.25	1.80	1.35
OPA820IDBVT	296-17131-1-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	2.25	1.80	1.40
OPA820IDBVT	296-17131-2-ND	Unity-Gain, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	332.50/250		
OPA830ID	296-17400-5-ND	Low Power, Single-Supply, Wideband Voltage-Feedback Amp	8-SOIC	1.78	1.42	1.07
OPA830IDBVT	296-17401-1-ND	Low Power, Single-Supply, Wideband Voltage-Feedback Amp	SOT-23-5	2.03	1.62	1.22
OPA830IDBVT	296-17401-2-ND	Low Power, Single-Supply, Wideband Voltage-Feedback Amp	SOT-23-5	283.50/250		
OPA832ID	296-17325-5-ND	Fixed-Gain Video Buffer Amp	8-SOIC	1.68	1.34	1.01
OPA832IDBVT	296-17326-1-ND	Fixed-Gain Video Buffer Amp	SOT-23-5	1.90	1.52	1.14
OPA832IDBVT	296-17326-2-ND	Fixed-Gain Video Buffer Amp	SOT-23-5	266.00/250		
OPA842ID	296-14175-5-ND	Wideband, Low Distribution Voltage Feedback Op Amp	8-SOIC	3.49	2.79	2.17
OPA842IDBVT	296-14176-1-ND	Wideband, Low Distribution Voltage Feedback Op Amp	SOT-23-5	3.83	3.06	2.38
OPA842IDBVT	296-14176-2-ND	Wideband, Low Distribution Voltage Feedback Op Amp	SOT-23-5	565.25/250		
OPA843ID	296-14177-5-ND	Wideband, Low Distribution Voltage Feedback Op Amp	8-SOIC	3.60	2.88	2.24
OPA843IDBVT	296-14178-1-ND	Wideband, Low Distribution Voltage Feedback Op Amp	SOT-23-5	3.94	3.15	2.45
OPA843IDBVT	296-14178-2-ND	Wideband, Low Distribution Voltage Feedback Op Amp	SOT-23-5	582.00/250		
OPA846ID	296-14775-5-ND	Wideband, Low-Noise, Volt.-Feedback Op Amp	8-SOIC	3.83	3.06	2.38
OPA846IDBVT	296-14776-1-ND	Wideband, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	4.16	3.33	2.59
OPA846IDBVT	296-14776-2-ND	Wideband, Low-Noise, Volt.-Feedback Op Amp	SOT-23-5	615.25/250		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA847ID	296-15171-5-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	8-SOIC	4.50	3.60	2.80
OPA847IDBVT	296-15172-1-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	SOT-23-6	4.95	3.96	3.08
OPA847IDBVT	296-15172-2-ND	Wideband, Ultra-Low Noise, Volt.-Feedback Op Amp	SOT-23-6	731.50/250		
OPA860ID	296-18202-ND	Wide Bandwidth Op Transconductance Amp/Buffer	8-SOIC	5.06	4.05	3.15
OPA861ID	296-18699-5-ND	Op Transconductance Amp	8-SOIC	2.38	1.90	1.43
OPA861IDBVT	296-18700-1-ND	Op Transconductance Amp	SOT-23-6	2.36	1.89	1.47
OPA861IDBVT	296-18700-2-ND	Op Transconductance Amp	SOT-23-6	349.25/250		
OPA1013CN8	OPA1013CN8-ND	Precision Single-Supply, Dual Op Amp	8-Dip	5.51	4.41	3.43
OPA1013DN8	OPA1013DN8-ND	Precision Single-Supply, Dual Op Amp	8-Dip	4.50	3.60	2.80
OPA1632D	296-16679-5-ND	High-Perf., Fully-Diff. Audio Op Amp	8-SOIC	3.94	3.15	2.45
OPA1632DGN	296-17008-ND	High Perf., Fully-Diff. Audio Op Amp	8-MSOP	3.94	3.15	2.45
OPA2107AU	OPA2107AU-ND	Dual, Difet® Op Amp	8-SOIC	12.25	11.03	9.78
OPA2111KP	296-12983-5-ND	Dual, LN Precision Difet® Op Amp	8-Dip	12.83	11.55	10.25
OPA2130UA	OPA2130UA-ND	Dual, LP, Precision, FET-Input Op Amp	8-SOIC	5.06	4.05	3.15
OPA2131UA	OPA2131UA-ND	Dual, GP, FET-Input Op Amp	8-SOIC	4.05	3.24	2.52
OPA2131UJ	OPA2131UJ-ND	Dual, GP, FET-Input Op Amp	8-SOIC	3.04	2.43	1.89
OPA2132P	OPA2132P-ND	High Speed, FET Input Op Amp	8-Dip	8.41	7.58	6.72
OPA2132PA	OPA2132PA-ND	High Speed, FET Input Op Amp	8-Dip	5.40	4.32	3.36
OPA2132U	OPA2132U-ND	High Speed, FET Input Op Amp	8-SOIC	8.41	7.58	6.72
OPA2132UA	OPA2132UA-ND	High Speed, FET Input Op Amp	8-SOIC	5.40	4.32	3.36
OPA2134PA	OPA2134PA-ND	Dual, High Performance Audio Op Amp	8-Dip	2.63	2.10	1.58
OPA2134UA	OPA2134UA-ND	Dual, High Performance Audio Op Amp	8-SOIC	2.36	1.89	1.47
OPA2137E/250	OPA2137ECT-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	2.59	2.07	1.61
OPA2137E/250	OPA2137ETR-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	382.50/250		
OPA2137EA/250	OPA2137EACT-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	1.88	1.50	1.13
OPA2137EA/250	OPA2137EATR-ND	Dual, Low Cost FET-Input Op Amp	8-MSOP	262.50/250		
OPA2137P	OPA2137P-ND	Dual, Low Cost FET-Input Op Amp	8-Dip	2.36	1.89	1.47
OPA2137PA	OPA2137PA-ND	Dual, Low Cost FET-Input Op Amp	8-Dip	1.75	1.40	1.05
OPA2137U	OPA2137U-ND	Dual, Low Cost FET-Input Op Amp	8-SOIC	2.36	1.89	1.47
OPA2137UA	OPA2137UA-ND	Dual, Low Cost FET-Input Op Amp	8-SOIC	1.75	1.40	1.05
OPA2227P	OPA2227P-ND	Dual, High Precision Op Amp	8-Dip	7.60	6.08	5.13
OPA2227PA	OPA2227PA-ND	Dual, High Precision Op Amp	8-Dip	3.96	3.17	2.47
OPA2227U	OPA2227U-ND	Dual, High Precision Op Amp	8-SOIC	7.60	6.08	5.13
OPA2227UA	OPA2227UA-ND	Dual, High Precision Op Amp	8-SOIC	3.96	3.17	2.47
OPA2228P	OPA2228P-ND	Dual, High Precision Op Amp	8-Dip	7.60	6.08	5.13
OPA2228PA	OPA2228PA-ND	Dual, High Precision Op Amp	8-Dip	3.96	3.17	2.47
OPA2228U	OPA2228U-ND	Dual, High Precision Op Amp	8-SOIC	7.60	6.08	5.13
OPA2228UA	OPA2228UA-ND	Dual, High Precision Op Amp	8-SOIC	3.96	3.17	2.47
OPA2234U	OPA2234U-ND	Dual, Low Power, Precision, Single-Supply Op Amp	8-SOIC	4.93	3.95	3.07
OPA2234UA	OPA2234UA-ND	Dual, Low Power, Precision, Single-Supply Op Amp	8-SOIC	4.07	3.26	2.54
OPA2237EA/250	OPA2237EACT-ND	Dual, Single-Supply Op Amp	8-MSOP	2.48	1.98	1.49
OPA2237EA/250	OPA2237EATR-ND	Dual, Single-Supply Op Amp	8-MSOP	346.50/250		
OPA2237UA	OPA2237UA-ND	Dual, Single-Supply Op Amp	8-SOIC	2.25	1.80	1.35
OPA2241PA	OPA2241PA-ND	Dual Single-Supply Micropower Op Amp	8-Dip	4.28	3.42	2.66
OPA2241UA	OPA2241UA-ND	Dual Single-Supply Micropower Op Amp	8-SOIC	4.28	3.42	2.66
OPA2244EA/250	OPA2244EACT-ND	Single-Supply Op Amp	8-MSOP	2.25	1.80	1.35
OPA2244EA/250	OPA2244EATR-ND	Single-Supply Op Amp	8-MSOP	315.00/250		
OPA2244PA	OPA2244PA-ND	Single-Supply Op Amp	8-Dip	2.15	1.72	1.29
OPA2244UA	OPA2244UA-ND	Single-Supply Op Amp	8-SOIC	2.15	1.72	1.29
OPA2251PA	OPA2251PA-ND	Dual Single-Supply Micropower Op Amp	8-Dip	4.39	3.51	2.73
OPA2251UA	OPA2251UA-ND	Dual Single-Supply Micropower Op Amp	8-SOIC	4.39	3.51	2.73
OPA2277P	OPA2277P-ND	Dual, High Precision Op Amp	8-Dip	6.84	5.48	4.62
OPA2277PA	OPA2277PA-ND	Dual, High Precision Op Amp	8-Dip	3.53	2.83	2.20
OPA2277U	OPA2277U-ND	Dual, High Precision Op Amp	8-SOIC	6.84	5.48	4.62
OPA2277UA	OPA2277UA-ND	Dual, High Precision Op Amp	8-SOIC	3.53	2.83	2.20
OPA2301AIDGKT	296-18693-1-ND	Low-Noise, High Speed 16-Bit CMOS Op Amp	8-MSOP	4.39	3.51	2.73
OPA2301AIDGKT	296-18693-2-ND	Low-Noise, High Speed 16-Bit CMOS Op Amp	8-MSOP	648.50/250		
OPA2333AID	296-19543-5-ND	1.8V MPU CMOS Dual Op Amp ***NEW!***	8-SOIC	3.38	2.70	2.10
OPA2333AIDRBT	296-19544-1-ND	1.8V MPU CMOS Dual Op Amp ***NEW!***	8-DFN	3.38	2.70	2.10
OPA2333AIDRBT	296-19544-2-ND	1.8V MPU CMOS Dual Op Amp ***NEW!***	8-DFN	498.75/250		
OPA2334AIDGST	296-13459-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp with SD	10-MSOP	3.94	3.15	2.45
OPA2334AIDGST	296-13459-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp with SD	10-MSOP	582.00/250		
OPA2335AIDGKT	296-13461-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-MSOP	3.94	3.15	2.45
OPA2335AIDGKT	296-13461-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-MSOP	582.00/250		
OPA2335AIDR	296-13462-1-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-SOIC	3.60	2.88	2.24
OPA2335AIDR	296-13462-2-ND	Dual, Single Supply CMOS Zero Drift Op Amp	8-SOIC	5040.00/2,500		
OPA2336E/250	OPA2336ECT-ND	Dual, Micropower Op Amp	8-MSOP	4.05	3.24	2.52
OPA2336E/250	OPA2336ETR-ND	Dual, Micropower Op Amp	8-MSOP	598.50/250		
OPA2336EA/250	OPA2336EACT-ND	Dual, Micropower Op Amp	8-MSOP	2.70	2.16	1.68
OPA2336EA/250	OPA2336EATR-ND	Dual, Micropower Op Amp	8-MSOP	399.00/250		
OPA2336P	OPA2336P-ND	Dual, Micropower Op Amp	8-Dip	3.71	2.97	2.31
OPA2336PA	OPA2336PA-ND	Dual, Micropower Op Amp	8-Dip	2.48	1.98	1.54
OPA2336U	OPA2336U-ND	Dual, Micropower Op Amp	8-SOIC	3.71	2.97	2.31
OPA2336UA	OPA2336UA-ND	Dual, Micropower Op Amp	8-SOIC	2.48	1.98	1.54
OPA2337EA/250	OPA2337EACT-ND	Dual, Single-Supply, MicroSize Op Amp	SOT-23-8	1.63	1.30	.98
OPA2337EA/250	OPA2337EATR-ND	Dual, Single-Supply, MicroSize Op Amp	SOT-23-8	227.50/250		
OPA2337PA	OPA2337PA-ND	Dual, Single-Supply, MicroSize Op Amp	8-Dip	1.50	1.20	.90
OPA2337UA	OPA2337UA-ND	Dual, Single-Supply, MicroSize Op Amp	8-SOIC	1.50	1.20	.90
OPA2338EA/250	OPA2338EACT-ND	Dual, OPA338 Op Amp	SOT-23-8	1.63	1.30	.98
OPA2338EA/250	OPA2338EATR-ND	Dual, OPA338 Op Amp	SOT-23-8	227.50/250		
OPA2338UA	OPA2338UA-ND	Dual, OPA338 Op Amp	8-SOIC	1.50	1.20	.90
OPA2340EA/250	OPA2340EACT-ND	Dual, Single-Supply, R/R Op Amp	8-MSOP	2.99	2.40	1.87
OPA2340EA/250	OPA2340EATR-ND	Dual, Single-Supply, R/R Op Amp	8-MSOP	442.25/250		
OPA2340PA	OPA2340PA-ND	Dual, Single-Supply, R/R Op Amp	8-Dip	2.79	2.24	1.74
OPA2340UA	OPA2340UA-ND	Dual, Single-Supply, R/R Op Amp	8-SOIC	2.79	2.24	1.74
OPA2341DGSA/250	OPA2341DGSACT-ND	Dual, Single-Supply, R/R Op Amp with Shutdown	10-MSOP	2.57	2.06	1.60
OPA2341DGSA/250	OPA2341DGSATR-ND	Dual, Single-Supply, R/R Op Amp with Shutdown	10-MSOP	379.00/250		
OPA2342EA/250	OPA2342EACT-ND	Dual, Micropower R/R Op Amp	8-MSOP	2.36	1.89	1.47
OPA2342EA/250	OPA2342EATR-ND	Dual, Micropower R/R Op Amp	8-MSOP	349.25/250		
OPA2342UA	OPA2342UA-ND	Dual, Micropower R/R Op Amp	8-SOIC	2.38	1.90	1.43
OPA2343EA/250	OPA2343EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.38	1.90	1.43
OPA2343EA/250	OPA2343EATR-ND	Rail-to-Rail Op Amp	8-MSOP	332.50/250		
OPA2343UA	OPA2343UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
OPA2344EA/250	OPA2344EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.79	2.24	1.74
OPA2344EA/250	OPA2344EATR-ND	Rail-to-Rail Op Amp	8-MSOP	412.25/250		
OPA2344PA	OPA2344PA-ND	Rail-to-Rail Op Amp	8-Dip	2.57	2.06	1.60
OPA2344UA	OPA2344UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.57	2.06	1.60
OPA2345EA/250	OPA2345EACT-ND	Rail-to-Rail Op Amp	8-MSOP	2.79	2.24	1.74
OPA2345EA/250	OPA2345EATR-ND	Rail-to-Rail Op Amp	8-MSOP	412.25/250		
OPA2345UA	OPA2345UA-ND	Rail-to-Rail Op Amp	8-SOIC	2.57	2.06	1.60
OPA2347EA/250	OPA2347EACT-ND	Rail-to-Rail Op Amp	SOT-23-8	1.68	1.34	1.01
OPA2347EA/250	OPA2347EATR-ND	Rail-to-Rail Op Amp	SOT-23-8	234.50/250		
OPA2347UA	OPA2347UA-ND	Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
OPA2347UA/2K5	OPA2347UATR-ND	Rail-to-Rail Op Amp	8-SOIC	1985.00/2,500		
OPA2347YEDR	296-18694-1-ND	Rail-to-Rail Op Amp	8-WCSP	1.90	1.52	1.14
OPA2347YEDR	296-18694-2-ND	Rail-to-Rail Op Amp	8-WCSP	2919.00/3,000		
OPA2347YEDT	296-15210-1-ND	Rail-to-Rail Op Amp	8-WCSP	2.03	1.62	1.22
OPA2347YEDT	296-15210-2-ND	Rail-to-Rail Op Amp	8-WCSP	283.50/250		
OPA2348AID	296-15363-5-ND	Dual, High Speed, CMOS, R/R, In/Out Op Amp	8-SOIC	1.68	1.34	1.01
OPA2348AIDCNT	296-13008-1-ND	Dual, High Speed, CMOS, R/R, In/Out Op Amp	SOT-23-8	1.78	1.42	1.07
OPA2348AIDCNT	296-13008-2-ND	Dual, High Speed, CMOS, R/R, In/Out Op Amp	SOT-23-8	248.50/250		
OPA2349EA/250	OPA2349EACT-ND	Micropower Op Amp	SOT-23-8	2.36	1.89	1.47
OPA2349EA/250	OPA2349EATR-ND	Micropower Op Amp	SOT-23-8	349.25/250		
OPA2349UA	OPA2349UA-ND	Micropower Op Amp	8-SOIC	2.38	1.90	1.43
OPA2350EA/250	OPA2350EACT-ND	Dual, HS CMOS Op Amp, 35MHz	8-MSOP	5.02	4.02	3.13
OPA2350EA/250	OPA2350EATR-ND	Dual, HS CMOS Op Amp, 35MHz	8-MSOP	741.50/250		
OPA2350PA	OPA2350PA-ND	Dual, HS CMOS Op Amp, 35MHz	8-Dip	4.59	3.68	2.86
OPA2350UA	OPA2350UA-ND	Dual, HS CMOS Op Amp, 35MHz	8-SOIC	4.59	3.68	2.86
OPA2353EA/250	OPA2353EACT-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-MSOP	3.96	3.17	2.47
OPA2353EA/250	OPA2353EATR-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-MSOP	585.25/250		
OPA2353UA	OPA2353UA-ND	Low Cost, Dual, High-Speed CMOS Op Amp, 35MHz	8-SOIC	3.65	2.92	2.27
OPA2354AIDDA	296-13784-5-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-SOIC	2.48	1.98	1.54
OPA2354AIDGKR	296-12642-1-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-MSOP	2.48	1.98	1.54
OPA2354AIDGKR	296-12642-2-ND	High Speed 250MHz, R/R, I/O, CMOS Op Amp	8-MSOP	3465.00/2,500		
OPA2355DGSA/250	296-12132-1-ND	High Speed Video Op Amp	10-MSOP	2.59	2.07	1.61
OPA2355DGSA/250	296-12132-2-ND	High Speed Video Op Amp	10-MSOP	382.50/250		
OPA2356AID	296-12406-5-ND	Dual, HS CMOS Op Amp	8-SOIC	2.59	2.07	1.61
OPA2357AIDGST	OPA2357AIDGSTCT-ND	R/R, I/O, CMOS Op Amp with SD	10-MSOP	2.81	2.25	1.75
OPA2357AIDGST	OPA2357AIDGSTTR-ND	R/R, I/O, CMOS Op Amp with SD	10-MSOP	415.75/250		
OPA2363AIDGST	296-13874-1-ND	7MHz, Single Supply R/R Op Amp	10-MSOP	2.36	1.89	1.47
OPA2363AIDGST	296-13874-2-ND	7MHz, Single Supply R/R Op Amp	10-MSOP	349.25/250		
OPA2363IDGST	296-13875-1-ND	7MHz, Single Supply R/R Op Amp	10-MSOP	3.26	2.61	2.03
OPA2363IDGST	296-13875-2-ND	7MHz, Single Supply R/R Op Amp	10-MSOP	482.25/250		
OPA2364AIDGKT	296-13876-1-ND	7MHz, Single Supply R/R Op Amp	8-MSOP	2.36	1.89	1.47
OPA2364AIDGKT	296-13876-2-ND	7MHz, Single Supply R/R Op Amp	8-MSOP	349.25/250		
OPA2364AIDR	296-13877-1-ND	7MHz, Single Supply R/R Op Amp	8-SOIC	2.38	1.90	1.43
OPA2364AIDR	296-13877-2-ND	7MHz, Single Supply R/R Op Amp	8-SOIC	3040.00/2,500		
OPA2364ID	296-13878-5-ND	7MHz, Single Supply R/R Op Amp	8-SOIC	3.04	2.43	1.89
OPA2364IDGKT	296-13879-1-ND	7MHz, Single Supply R/R Op Amp	8-MSOP	3.26	2.61	2.03
OPA2364IDGKT	296-13879-2-ND	7MHz, Single Supply R/R Op Amp	8-MSOP	482.25/250		
OPA2373AIDGST	296-18503-1-ND	6.5MHz, R/R In/Out Op Amp	10-MSOP	1.75	1.40	1.05
OPA2373AIDGST	296-18503-2-ND	6.5MHz, R/R In/Out Op Amp	10-MSOP	245.00/250		
OPA2374AID	296-17933-ND	6.5MHz, R/R In/Out Op Amp	8-SOIC	1.63	1.30	.98
OPA2374AIDCNT	296-18504-1-ND	6.5MHz, R/R In/Out Op Amp	SOT-23-8	1.75	1.40	1.05
OPA2374AIDCNT	296-18504-2-ND	6.5MHz, R/R In/Out Op Amp	SOT-23-8	245.00/250		
OPA2379AID	296-19412-5-ND	1.8V, 90KHz R/R I/O Op Amp ***NEW!***	8-SOIC	2.48	1.98	1.54
OPA2380AIDGKT	296-17046-1-ND	Precision, HS, Transimpedance Amp	8-MSOP	6.50	5.20	4.39
OPA2380AIDGKT	296-17046-2-ND	Precision, HS, Transimpedance Amp	8-MSOP	1056.25/250		
OPA2381AIDGKT	296-17413-1-ND	Precision, Low Power, 18MHz Transimpedance Amp	8-MSOP	5.00	4.00	3.38
OPA2381AIDGKT	296-17413-2-ND	Precision, Low Power, 18MHz Transimpedance Amp	8-MSOP	812.50/250		
OPA2381AIDRBT	296-17559-1-ND	Precision, Low Power, 18MHz Transimpedance Amp	8-DFN	5.00	4.00	3.38
OPA2381AIDRBT	296-17559-2-ND	Precision, Low Power, 18MHz Transimpedance Amp	8-DFN	812.50/250		
OPA2541AM	OPA2541AM-ND	Dual, High Power Op Amp, 5A Out	TO-3	192.08	179.27	166.47
OPA2541BM	OPA2541BM-ND	Dual, High Power Op Amp, 5A Out	TO-3	198.39	185.17	171.94
OPA2544T	OPA2544T-ND	Dual, High-Volt./Current Op Amp	TO-220-11	18.00	16.80	15.60
OPA2604AP	OPA2604AP-ND	Dual, FET-Input, Low Distortion Op Amp	8-Dip	4.28	3.42	2.66
OPA2604AU	OPA2604AU-ND	Dual, FET-Input, Low Distortion Op Amp	8-SOIC	4.28	3.42	2.66
OPA2613ID	296-16916-5-ND	Dual, Wideband, High Output Current Op Amp	8-SOIC	3.31	2.65	2.06
OPA2613IDTJ	296-16917-5-ND	Dual, Wideband, High Output Current Op Amp	8-HSOP	3.74	2.99	2.33
OPA2614ID	296-17127-5-ND	Dual, High Gain Bandwidth, High Output Op Amp	8-SOIC	3.49	2.79	2.17
OPA2614IDTJ	296-17128-5-ND	Dual, High Gain Bandwidth, High Output Op Amp	8-HSOP	3.94	3.15	2.45
OPA2650E/250	OPA2650ECT-ND	Dual, Wideband, LP, Voltage Feedback Op Amp	8-MSOP	5.81	4.98	4.57
OPA2652E/250	OPA2652ECT-ND	Dual, Voltage Feedback Op Amp	SOT-23-8	2.79	2.24	1.74

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA2652E/250	OPA2652ETR-ND	Dual, Voltage Feedback Op Amp	SOT-23-8	412.25/250		
OPA2652U	OPA2652U-ND	Dual, Voltage Feedback Op Amp	8-SOIC	2.45	1.97	1.53
OPA2674I-14D	296-15211-5-ND	Dual, Wideband, High Output Current Op Amp with Current Limit	14-SOIC	3.65	2.92	2.27
OPA2674I-14DR	296-19413-1-ND	Dual Wideband, High Output Current Op Amp with Current Limit ***NEW!***	14-SOIC	3.65	2.92	2.27
OPA2674I-14DR	296-19413-2-ND	Dual Wideband, High Output Current Op Amp with Current Limit ***NEW!***	14-SOIC	5102.50/2,500		
OPA2674ID	296-15212-5-ND	Dual, Wideband, High Output Current Op Amp with Current Limit	8-SOIC	3.65	2.92	2.27
OPA2677H	OPA2677H-ND	Dual, Wideband, High Output Current Op Amp	8-HSOP	3.96	3.17	2.47
OPA2677IRGVT	296-19471-1-ND	Dual, Wideband, High Output Current Op Amp ***NEW!***	16-QFN	4.16	3.33	2.59
OPA2677IRGVT	296-19471-2-ND	Dual, Wideband, High Output Current Op Amp ***NEW!***	16-QFN	615.25/250		
OPA2677U	OPA2677U-ND	Dual, Wideband, High Output Current Op Amp	8-SOIC	3.53	2.83	2.20
OPA2683ID	296-14172-5-ND	Dual, Very Low Power, Current Feedback Op Amp	8-SOIC	3.96	3.17	2.47
OPA2683IDCNT	296-14173-1-ND	Dual, Very Low Power, Current Feedback Op Amp	SOT-23-8	4.39	3.51	2.73
OPA2683IDCNT	296-14173-2-ND	Dual, Very Low Power, Current Feedback Op Amp	SOT-23-8	648.50/250		
OPA2684ID	296-13463-5-ND	Dual, Low Power, Current Feedback Op Amp	8-SOIC	4.50	3.60	2.80
OPA2684IDCNT	296-13994-1-ND	Dual, Low Power Op Amp	SOT-23-8	4.93	3.95	3.07
OPA2684IDCNT	296-13994-2-ND	Dual, Low Power Op Amp	SOT-23-8	728.25/250		
OPA2690I-14D	296-13464-5-ND	Dual, Wideband, Voltage Feedback Op Amp with Disable	14-SOIC	4.59	3.68	2.86
OPA2690ID	296-13465-5-ND	Dual, Wideband, Voltage Feedback Op Amp with Disable	8-SOIC	4.59	3.68	2.86
OPA2691I-14D	OPA2691I-14D-ND	Dual, Wideband, Current Feedback Op Amp	14-SOIC	4.93	3.95	3.07
OPA2691ID	OPA2691ID-ND	Dual, Wideband, Current Feedback Op Amp	8-SOIC	3.29	3.95	3.07
OPA2694ID	296-17883-ND	Dual, Wideband, Low Power, Current Feedback Op Amp	8-SOIC	4.07	3.26	2.54
OPA2703EA/250	OPA2703EA/250CT-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	5.29	4.23	3.29
OPA2703EA/250	OPA2703EA/250TR-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	781.50/250		
OPA2703PA	OPA2703PA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-Dip	4.84	3.87	3.01
OPA2703UA	OPA2703UA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	4.84	3.87	3.01
OPA2704EA/250	OPA2704EA/250CT-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	5.29	4.23	3.29
OPA2704EA/250	OPA2704EA/250TR-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	781.50/250		
OPA2704PA	OPA2704PA-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-Dip	4.84	3.87	3.01
OPA2704UA	OPA2704UA-ND	3MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	4.84	3.87	3.01
OPA2705EA/250	OPA2705EA/250CT-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	2.38	1.90	1.43
OPA2705EA/250	OPA2705EA/250TR-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	332.50/250		
OPA2705PA	OPA2705PA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-Dip	2.38	1.90	1.43
OPA2705UA	OPA2705UA-ND	1MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	2.38	1.90	1.43
OPA2725AID	296-17228-5-ND	12V, High Speed CMOS Op Amp	8-SOIC	3.04	2.43	1.89
OPA2725AIDGKT	296-16768-1-ND	12V, High Speed CMOS Op Amp	8-MSOP	3.38	2.70	2.10
OPA2725AIDGKT	296-16768-2-ND	12V, High Speed CMOS Op Amp	8-MSOP	498.75/250		
OPA2726AIDGST	296-18505-1-ND	12V, Low Noise High Speed, CMOS Op Amp	10-MSOP	3.38	2.70	2.10
OPA2726AIDGST	296-18505-2-ND	12V, Low Noise High Speed, CMOS Op Amp	10-MSOP	498.75/250		
OPA2734AIDGST	296-16769-1-ND	Zero-Drift, Single-Supply, CMOS Op Amp	10-MSOP	4.95	3.96	3.08
OPA2734AIDGST	296-16769-2-ND	Zero-Drift, Single-Supply, CMOS Op Amp	10-MSOP	731.50/250		
OPA2735AID	296-16770-5-ND	Zero-Drift, Single-Supply, CMOS Op Amp	8-SOIC	4.50	3.60	2.80
OPA2735AIDGKT	296-16771-1-ND	Zero-Drift, Single-Supply, CMOS Op Amp	8-MSOP	4.95	3.96	3.08
OPA2735AIDGKT	296-16771-2-ND	Zero-Drift, Single-Supply, CMOS Op Amp	8-MSOP	731.50/250		
OPA2743EA/2K5	OPA2743EA/2K5CT-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	3.49	2.79	2.17
OPA2743EA/2K5	OPA2743EA/2K5TR-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-VSSOP	4882.50/2,500		
OPA2743EA/250	296-17017-1-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-MSOP	3.83	3.06	2.38
OPA2743EA/250	296-17017-2-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-MSOP	565.25/250		
OPA2743PA	296-12726-5-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-Dip	3.49	2.79	2.17
OPA2743UA	296-12727-5-ND	7MHz, Dual CMOS R/R I/O Op Amp	8-SOIC	3.49	2.79	2.17
OPA2822E/250	296-12984-1-ND	Dual, Wideband, Low Noise Op Amp	8-MSOP	3.22	2.58	2.01
OPA2822E/250	296-12984-2-ND	Dual, Wideband, Low Noise Op Amp	8-MSOP	475.50/250		
OPA2822U	296-9623-5-ND	Dual, Wideband, Low Noise Op Amp	8-SOIC	2.88	2.31	1.80
OPA2830ID	296-17957-5-ND	Dual, Low Power, Single Supply, Wideband Op Amp	8-SOIC	2.57	2.06	1.60
OPA2830IDGKT	296-17958-1-ND	Dual, Low Power, Single Supply, Wideband Op Amp	8-MSOP	2.88	2.31	1.80
OPA2830IDGKT	296-17958-2-ND	Dual, Low Power, Single Supply, Wideband Op Amp	8-MSOP	425.50/250		
OPA2832ID	296-18002-5-ND	Dual, Low Power, High Speed, Fixed Gain Op Amp	8-SOIC	2.36	1.89	1.47
OPA2832IDGKT	296-18003-1-ND	Dual, Low Power, High Speed, Fixed Gain Op Amp	8-MSOP	2.57	2.06	1.60
OPA2832IDGKT	296-18003-2-ND	Dual, Low Power, High Speed, Fixed Gain Op Amp	8-MSOP	379.00/250		
OPA2846ID	296-16853-5-ND	Dual, Wideband, Low-Noise, Voltage Feedback Op Amp	8-SOIC	5.10	4.08	3.45
OPA3355EA/250	OPA3355EA/250CT-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-TSSOP	3.60	2.88	2.24
OPA3355EA/250	OPA3355EA/250TR-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-TSSOP	532.00/250		
OPA3355UA	OPA3355UA-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	3.26	2.61	2.03
OPA3355UA/2K5	OPA3355UA/2K5CT-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	3.26	2.61	2.03
OPA3355UA/2K5	OPA3355UA/2K5TR-ND	Triple, CMOS High Speed Op Amp with Shutdown	14-SOIC	4567.50/2,500		
OPA3684ID	296-13646-5-ND	Low Power, Triple Current Feedback Op Amp with Disable	14-SOIC	5.50	4.40	3.72
OPA3684IDBQT	296-13647-1-ND	Low Power, Triple Current Feedback Op Amp with Disable	16-SSOP	6.00	4.80	4.05
OPA3684IDBQT	296-13647-2-ND	Low Power, Triple Current Feedback Op Amp with Disable	16-SSOP	975.00/250		
OPA3690ID	OPA3690ID-ND	Triple, Wideband, Voltage Feedback Op Amp	16-SOIC	5.80	4.64	3.92
OPA3690IDBQT	OPA3690IDBQTCT-ND	Triple, Wideband, Voltage Feedback Op Amp	16-SSOP	6.40	5.12	4.32
OPA3690IDBQT	OPA3690IDBQTTR-ND	Triple, Wideband, Voltage Feedback Op Amp	16-SSOP	1040.00/250		
OPA3691ID	OPA3691ID-ND	Triple, Wideband, Current Feedback Op Amp	16-SOIC	6.20	4.96	4.19
OPA3691IDBQT	OPA3691IDBQT-ND	Triple, Wideband, Current Feedback Op Amp	16-SSOP	6.80	5.44	4.59
OPA3692ID	296-12603-5-ND	Triple Wideband, Current Feedback Op Amp with Disable	16-SOIC	5.50	4.40	3.72
OPA3692IDBQT	296-12604-1-ND	Triple Wideband, Current Feedback Op Amp with Disable	16-SSOP	6.10	4.88	4.12
OPA3692IDBQT	296-12604-2-ND	Triple Wideband, Current Feedback Op Amp with Disable	16-SSOP	991.25/250		
OPA4130UA	OPA4130UA-ND	Quad, LP, Precision, FET-In Op Amp	14-SOIC	6.90	5.52	4.66
OPA4131NA	OPA4131NA-ND	Quad, General Purpose FET-Input Op Amp	14-SOIC	7.30	5.84	4.93
OPA4131NJ	OPA4131NJ-ND	Quad, General Purpose FET-Input Op Amp	14-SOIC	6.10	4.88	4.12
OPA4131PA	OPA4131PA-ND	Quad, General Purpose FET-Input Op Amp	14-Dip	7.30	5.84	4.93
OPA4131PJ	OPA4131PJ-ND	Quad, General Purpose, FET-Input Op Amp	14-Dip	6.10	4.88	4.12
OPA4131UA	OPA4131UA-ND	Quad, General Purpose FET-Input Op Amp	16-SOIC	7.30	5.84	4.93
OPA4132UA	OPA4132UA-ND	Quad, HS, FET-Input Op Amp	14-SOIC	9.10	7.28	6.15
OPA4134UA	OPA4134UA-ND	Quad, High Performance Op Amp	14-SOIC	3.74	2.99	2.33
OPA4137P	OPA4137P-ND	Quad, FET-Input Op Amp	14-Dip	3.26	2.61	2.03
OPA4137PA	OPA4137PA-ND	Quad, FET-Input Op Amp	14-Dip	2.48	1.98	1.54
OPA4137U	OPA4137U-ND	Quad, FET-Input Op Amp	14-SOIC	3.26	2.61	2.03
OPA4137UA	OPA4137UA-ND	Quad, FET-Input Op Amp	14-SOIC	2.48	1.98	1.54
OPA4227PA	OPA4227PA-ND	Quad, High Precision Op Amp	14-Dip	7.70	6.16	5.20
OPA4227UA	OPA4227UA-ND	Quad, High Precision Op Amp	14-SOIC	7.70	6.16	5.20
OPA4228PA	OPA4228PA-ND	Quad, High Precision Op Amp	14-Dip	7.70	6.16	5.20
OPA4228UA	OPA4228UA-ND	Quad, High Precision Op Amp	14-SOIC	7.70	6.16	5.20
OPA4241PA	OPA4241PA-ND	Quad, Single-Supply µpower Op Amp	14-Dip	8.40	6.72	5.67
OPA4241UA	OPA4241UA-ND	Quad, Single-Supply µpower Op Amp	14-SOIC	8.40	6.72	5.67
OPA4243EA/250	OPA4243EACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	3.94	3.15	2.45
OPA4243EA/250	OPA4243EATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	582.00/250		
OPA4244EA/250	OPA4244EACT-ND	Single-Supply µpower Op Amp	14-TSSOP	3.53	2.83	2.20
OPA4244EA/250	OPA4244EATR-ND	Single-Supply µpower Op Amp	14-TSSOP	522.00/250		
OPA4251PA	OPA4251PA-ND	Quad, Single-Supply µpower Op Amp	14-Dip	8.40	6.72	5.67
OPA4251UA	OPA4251UA-ND	Quad, Single-Supply µpower Op Amp	14-SOIC	8.40	6.72	5.67
OPA4277PA	OPA4277PA-ND	Quad, High Precision Op Amp	14-Dip	7.32	5.86	4.95
OPA4277UA	OPA4277UA-ND	Quad, High Precision Op Amp	14-SOIC	7.32	5.86	4.95
OPA4234U	OPA4234U-ND	Quad, Low Power, Precision, Single-Supply Op Amp	14-SOIC	7.50	6.00	5.07
OPA4234UA	OPA4234UA-ND	Quad, Low Power, Precision, Single-Supply Op Amp	14-SOIC	6.56	5.25	4.43
OPA4336EA/250	OPA4336EACT-ND	Quad, Single-Supply, Micropower Op Amp	16-SSOP	4.28	3.42	2.66
OPA4336EA/250	OPA4336EATR-ND	Quad, Single-Supply, Micropower Op Amp	16-SSOP	631.75/250		
OPA4340EA/250	OPA4340EACT-ND	Quad, Single-Supply, R/R Op Amp	16-SSOP	5.14	4.12	3.47
OPA4340EA/250	OPA4340EATR-ND	Quad, Single-Supply, R/R Op Amp	16-SSOP	835.25/250		
OPA4340UA	OPA4340UA-ND	Quad, Single-Supply, R/R Op Amp	14-SOIC	5.24	4.20	3.27
OPA4342EA/250	OPA4342EACT-ND	Quad, Micropower R/R Op Amp	14-TSSOP	3.65	2.92	2.27
OPA4342EA/250	OPA4342EATR-ND	Quad, Micropower R/R Op Amp	14-TSSOP	538.75/250		
OPA4342PA	OPA4342PA-ND	Quad, Micropower R/R Op Amp	14-Dip	3.65	2.92	2.27
OPA4342UA	OPA4342UA-ND	Quad, Micropower R/R Op Amp	14-SOIC	3.65	2.92	2.27
OPA4343EA/250	OPA4343EACT-ND	Quad, Single-Supply Op Amp	16-SSOP	3.74	2.99	2.33
OPA4343EA/250	OPA4343EATR-ND	Quad, Single-Supply Op Amp	16-SSOP	552.00/250		
OPA4343NA/250	OPA4343NACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	3.74	2.99	2.33
OPA4343NA/250	OPA4343NATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	552.00/250		
OPA4343UA	OPA4343UA-ND	Quad, Single-Supply Op Amp	14-SOIC	3.42	2.74	2.13
OPA4344EA/250	OPA4344EACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	4.70	3.77	2.93
OPA4344EA/250	OPA4344EATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	695.00/250		
OPA4344PA	OPA4344PA-ND	Quad, Single-Supply Op Amp	14-Dip	4.28	3.42	2.66
OPA4344UA	OPA4344UA-ND	Quad, Single-Supply Op Amp	14-SOIC	4.28	3.42	2.66
OPA4345EA/250	OPA4345EACT-ND	Quad, Single-Supply Op Amp	14-TSSOP	4.28	3.42	2.66
OPA4345EA/250	OPA4345EATR-ND	Quad, Single-Supply Op Amp	14-TSSOP	631.75/250		
OPA4345UA	OPA4345UA-ND	Quad, Single-Supply Op Amp	14-SOIC	4.28	3.42	2.66
OPA4347EA/250	OPA4347EACT-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.57	2.06	1.60
OPA4347EA/250	OPA4347EATR-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	379.00/250		
OPA4347UA	OPA4347UA-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.36	1.89	1.47
OPA4347UA/2K5	OPA4347UATR-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3307.50/2,500		
OPA4348AID	296-12277-5-ND	1MHz, Quad, R/R, I/O Op Amp	14-SOIC	2.36	1.89	1.47
OPA4348AIPWT	296-12278-1-ND	1MHz, Quad, R/R, I/O Op Amp	14-TSSOP	2.68	2.15	1.67
OPA4348AIPWT	296-12278-2-ND	1MHz, Quad, R/R, I/O Op Amp	14-TSSOP	395.75/250		
OPA4350EA/250	OPA4350EACT-ND	High Speed CMOS Op Amp, 35MHz	16-SSOP	8.64	6.92	5.84
OPA4350EA/250	OPA4350EATR-ND	High Speed CMOS Op Amp, 35MHz	16-SSOP	1404.00/250		
OPA4350UA	OPA4350UA-ND	High Speed CMOS Op Amp, 35MHz	14-SOIC	7.80	6.24	5.27
OPA4353EA/250	OPA4353EACT-ND	Low Cost, HS CMOS Op Amp	16-SSOP	5.22	4.18	3.53
OPA4353EA/250	OPA4353EATR-ND	Low Cost, HS CMOS Op Amp	16-SSOP	848.25/250		
OPA4353UA	OPA4353UA-ND	Low Cost, HS CMOS Op Amp	14-SOIC	5.36	4.29	3.34
OPA4354AIDR	296-12643-1-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-SOIC	3.60	2.88	2.24
OPA4354AIDR	296-12643-2-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-SOIC	5040.00/2,500		
OPA4354AIPWR	296-12644-1-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-TSSOP	3.60	2.88	2.24
OPA4354AIPWR	296-12644-2-ND	Quad, High Speed, 250MHz, R/R, I/O, CMOS Op Amp	14-TSSOP	5040.00/2,500		
OPA4364AID	296-14629-5-ND	1.8V, 7MHz, Single-Supply R/R Op Amp	14-SOIC	3.15	2.52	1.96

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPA4364AIPWT	296-14630-1-ND	1.8V, 7MHz, Single-Supply R/R Op Amp	14-TSSOP	3.49	2.79	2.17
OPA4364AIPWT	296-14630-2-ND	1.8V, 7MHz, Single-Supply R/R Op Amp	14-TSSOP	515.50/250		
OPA4374AID	296-18201-ND	6.5MHz, R/R In/Out Op Amp	14-SOIC	2.38	1.90	1.43
OPA4374AIPWT	296-16811-1-ND	6.5MHz, R/R In/Out Op Amp	14-TSSOP	2.36	1.89	1.47
OPA4374AIPWT	296-16811-2-ND	6.5MHz, R/R In/Out Op Amp	14-TSSOP	349.25/250		
OPA4684ID	296-13648-5-ND	Quad, Low Power, Current-Feedback Op Amp	14-SOIC	6.28	5.03	4.24
OPA4684IPWT	296-13649-1-ND	Quad, Low Power, Current-Feedback Op Amp	14-TSSOP	6.94	5.56	4.69
OPA4684IPWT	296-13649-2-ND	Quad, Low Power, Current-Feedback Op Amp	14-TSSOP	1127.75/250		
OPA4703EA/2K5	OPA4703EA/2K5CT-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	8.10	6.48	5.47
OPA4703EA/2K5	OPA4703EA/2K5TR-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	12555.00/2,500		
OPA4703EA/250	296-17093-1-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	8.90	7.12	6.01
OPA4703EA/250	296-17093-2-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	1446.25/250		
OPA4703UA	OPA4703UA-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	8.10	6.48	5.47
OPA4704EA/2K5	OPA4704EA/2K5CT-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	8.10	6.48	5.47
OPA4704EA/2K5	OPA4704EA/2K5TR-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	12555.00/2,500		
OPA4704EA/250	296-17094-1-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	8.90	7.12	6.01
OPA4704EA/250	296-17094-2-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	1446.25/250		
OPA4704UA	OPA4704UA-ND	5MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	8.10	6.48	5.47
OPA4705EA/2K5	OPA4705EA/2K5CT-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	3.60	2.88	2.24
OPA4705EA/2K5	OPA4705EA/2K5TR-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	5040.00/2,500		
OPA4705EA/250	296-17095-1-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	3.94	3.15	2.45
OPA4705EA/250	296-17095-2-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	582.00/250		
OPA4705UA	OPA4705UA-ND	1MHz, Quad CMOS R/R, I/O Op Amp	14-SOIC	3.60	2.88	2.24
OPA4743EA/250	OPA4743EA/250CT-ND	7MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	5.29	4.23	3.29
OPA4743EA/250	OPA4743EA/250TR-ND	7MHz, Quad CMOS R/R, I/O Op Amp	14-TSSOP	781.50/250		
OPA4743UA	296-12205-5-ND	12V, Quad, High Speed, R/R, I/O Op Amp	14-SOIC	5.29	4.23	3.29
OPA4820IPWT	296-17560-1-ND	Quad, Unity-Gain Stable, Low-Noise, Voltage-Feedback Op Amp	14-TSSOP	5.10	4.08	3.45
OPA4820IPWT	296-17560-2-ND	Quad, Unity-Gain Stable, Low-Noise, Voltage-Feedback Op Amp	14-TSSOP	828.75/250		
OPA4820ID	296-17590-5-ND	Quad, Unity-Gain Stable, Low-Noise, Voltage-Feedback Op Amp	14-SOIC	5.18	4.14	3.22
PGA103U	PGA103U-ND	Programmable Gain Amp	8-SOIC	8.70	6.96	5.88
PGA202KP	PGA202KP-ND	Digitally Controlled Programmable Gain Op Amp	14-Dip	12.91	11.63	10.31
PGA203KP	PGA203KP-ND	Digitally Controlled Programmable Gain Op Amp	14-Dip	12.91	11.63	10.31
PGA204AP	PGA204AP-ND	Prog. Gain Instrumentation Amp	16-Dip	12.08	10.88	9.65
PGA204AU	PGA204AU-ND	Prog. Gain Instrumentation Amp	16-SOIC	12.08	10.88	9.65
PGA204BP	PGA204BP-ND	Prog. Gain Instrumentation Amp	16-Dip	15.15	14.14	13.13
PGA204BU	PGA204BU-ND	Prog. Gain Instrumentation Amp	16-SOIC	15.15	14.14	13.13
PGA205AP	PGA205AP-ND	Prog. Gain Instrumentation Amp	16-Dip	12.08	10.88	9.65
PGA205AU	PGA205AU-ND	Prog. Gain Instrumentation Amp	16-SOIC	12.08	10.88	9.65
PGA205BP	PGA205BP-ND	Prog. Gain Instrumentation Amp	16-Dip	15.15	14.14	13.13
PGA205BU	PGA205BU-ND	Prog. Gain Instrumentation Amp	16-SOIC	15.15	14.14	13.13
PGA206UA	PGA206UA-ND	High Speed Programmable Gain Instrumentation Amp	16-SOIC	16.20	15.12	14.04
PGA207UA	296-15093-5-ND	High Speed Programmable Gain Instrumentation Amp	16-SOIC	17.78	16.59	15.41
PGA309AIPWT	296-16726-1-ND	Smart Programmable Sensor	16-TSSOP	6.50	5.20	4.39
PGA2310UA	296-12255-5-ND	High Performance Stereo Audio Volume Control	16-SOIC	16.58	14.93	13.24
PGA2311P	PGA2311P-ND	5V, High Performance Stereo Audio Volume Control	16-Dip	7.50	6.00	5.07
PGA2311PA	PGA2311PA-ND	5V, High Performance Stereo Audio Volume Control	16-Dip	8.94	7.16	6.04
PGA2311U	PGA2311U-ND	5V, High Performance Stereo Audio Volume Control	16-SOIC	7.50	6.00	5.07
PGA2311UA	PGA2311UA-ND	5V, High Performance Stereo Audio Volume Control	16-SOIC	8.94	7.16	6.04
PGA2320IDW	296-17962-5-ND	Stereo Audio Volume Control	16-SOIC	14.16	12.75	11.31
PGA2500EVM	296-18514-ND	Evaluation Module for PGA2500	—	126.84	—	—
PGA2500IDB	296-16674-5-ND	Digital Controlled Microphone Preamp	28-SSOP	16.58	14.93	13.24
RC4136N	296-9649-5-ND	Quad General Purpose Op Amp	14-Dip	1.20	1.00	.80
RC4558D	296-9650-5-ND	Dual General Purpose Op Amp	8-SOIC	.46	.37	.26
RC4558DGKR	296-16946-1-ND	Dual General Purpose Op Amp	8-VSSOP	.50	.40	.30
RC4558DGKR	296-16946-2-ND	Dual General Purpose Op Amp	8-VSSOP	337.50/2,500		
RC4558DR	296-14634-1-ND	Dual General Purpose Op Amp	8-SOIC	.46	.37	.26
RC4558DR	296-14634-2-ND	Dual General Purpose Op Amp	8-SOIC	297.50/2,500		
RC4558IDGKR	296-17418-1-ND	Dual General Purpose Op Amp	8-MSOP	.56	.42	.32
RC4558IDGKR	296-17418-2-ND	Dual General Purpose Op Amp	8-MSOP	455.00/2,500		
RC4558IDR	296-17440-1-ND	Dual General Purpose Op Amp	8-SOIC	.48	.36	.27
RC4558IDR	296-17440-2-ND	Dual General Purpose Op Amp	8-SOIC	390.00/2,500		
RC4558IP	296-17460-5-ND	Dual General Purpose Op Amp	8-Dip	.48	.36	.27
RC4558IPWR	296-17419-1-ND	Dual General Purpose Op Amp	8-TSSOP	.48	.36	.27
RC4558IPWR	296-17419-2-ND	Dual General Purpose Op Amp	8-TSSOP	320.00/2,000		
RC4558P	296-1414-5-ND	Dual General Purpose Op Amp	8-Dip	.46	.37	.26
RC4558PSR	296-9651-1-ND	Dual General Purpose Op Amp	8-SOP	.46	.37	.26
RC4558PSR	296-9651-2-ND	Dual General Purpose Op Amp	8-SOP	252.00/2,000		
RC4558PWR	296-13789-1-ND	Dual General Purpose Op Amp	8-TSSOP	.46	.37	.26
RC4558PWR	296-13789-2-ND	Dual General Purpose Op Amp	8-TSSOP	252.00/2,000		
RC4559P	296-9652-5-ND	Dual High Performance Op Amp	8-Dip	.92	.69	.52
RC4560IDR	296-17547-1-ND	Dual Audio Op Amp	8-SOIC	.92	.69	.52
RC4560IDR	296-17547-2-ND	Dual Audio Op Amp	8-SOIC	747.50/2,500		
RC4560IP	296-17554-5-ND	Dual Audio Op Amp	8-Dip	.92	.69	.52
RC4560IPWR	296-17544-1-ND	Dual Audio Op Amp	8-TSSOP	.92	.69	.52
RC4560IPWR	296-17544-2-ND	Dual Audio Op Amp	8-TSSOP	612.00/2,000		
RC4580IDR	296-15367-1-ND	Dual Audio Op Amp	8-SOIC	.75	.63	.50
RC4580IDR	296-15367-2-ND	Dual Audio Op Amp	8-SOIC	812.50/2,500		
RC4580IP	296-15368-5-ND	Dual Audio Op Amp	8-Dip	.92	.69	.52
RC4580IPWR	296-15369-1-ND	Dual Audio Op Amp	8-TSSOP	.92	.69	.52
RC4580IPWR	296-15369-2-ND	Dual Audio Op Amp	8-TSSOP	612.00/2,000		
SA5532ADR	296-16994-1-ND	Dual, High Speed Audio Op Amp	8-SOIC	.99	.83	.66
SA5532ADR	296-16994-2-ND	Dual, High Speed Audio Op Amp	8-SOIC	1072.50/2,500		
SA5532AP	296-16995-5-ND	Dual, High Speed Audio Op Amp	8-Dip	.99	.83	.66
SA5532DR	296-16996-1-ND	Dual, High Speed Audio Op Amp	8-SOIC	.75	.63	.50
SA5532DR	296-16996-2-ND	Dual, High Speed Audio Op Amp	8-SOIC	812.50/2,500		
SA5532P	296-16996-5-ND	Dual, High Speed Audio Op Amp	8-Dip	.75	.63	.50
SA5534ADR	296-17271-1-ND	Low Noise Op Amp	8-SOIC	1.20	1.00	.80
SA5534ADR	296-17271-2-ND	Low Noise Op Amp	8-SOIC	1300.00/2,500		
SA5534AP	296-17272-5-ND	Low Noise Op Amp	8-Dip	1.20	1.00	.80
SA5534DR	296-17273-1-ND	Low Noise Op Amp	8-SOIC	1.11	.93	.74
SA5534DR	296-17273-2-ND	Low Noise Op Amp	8-SOIC	1202.50/2,500		
SA5534P	296-17274-5-ND	Low Noise Op Amp	8-Dip	1.11	.93	.74
SA5534PSR	296-17275-1-ND	Low Noise Op Amp	8-SOP	1.11	.93	.74
SA5534PSR	296-17275-2-ND	Low Noise Op Amp	8-SOP	984.00/2,000		
SN10501D	296-14777-5-ND	High Speed, R/R, Video Op Amp	8-SOIC	1.68	1.34	1.01
SN10501DBVT	296-15094-1-ND	High Speed, R/R, Video Op Amp	SOT-23-5	1.90	1.52	1.14
SN10501DBVT	296-15094-2-ND	High Speed, R/R, Video Op Amp	SOT-23-5	266.00/250		
SN10501DGK	296-16654-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	1.68	1.34	1.01
SN10501DGN	296-18520-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	1.68	1.34	1.01
SN10502D	296-15329-5-ND	High Speed, R/R, Video Op Amp	8-SOIC	2.25	1.80	1.35
SN10502DGK	296-16655-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	2.25	1.80	1.35
SN10502DGN	296-16656-5-ND	High Speed, R/R, Video Op Amp	8-MSOP	2.25	1.80	1.35
SN10503D	296-14778-5-ND	High Speed, R/R, Video Op Amp	14-SOIC	2.79	2.24	1.74
SN10503PWP	296-16829-5-ND	High Speed, R/R, Video Op Amp	14-TSSOP	2.79	2.24	1.74
SN75207BN	296-9910-5-ND	Dual High Sensitivity Line Receiver	14-Dip	2.81	2.25	1.75
SN761662DBTR	296-19431-1-ND	DTV Tuner IC ***NEW!***	38-TSSOP	2.27	1.82	1.42
SN761662DBTR	296-19431-2-ND	DTV Tuner IC ***NEW!***	38-TSSOP	2576.00/2,000		
SN761663DGKR	296-18720-1-ND	AGC Amplifier	8-MSOP	2.10	1.68	1.26
SN761663DGKR	296-18720-2-ND	AGC Amplifier	8-MSOP	2687.50/2,500		
SN761681DBTR	296-19597-1-ND	TV Tuner IC ***NEW!***	30-TSSOP	2.10	1.68	1.26
SN761681DBTR	296-19597-2-ND	TV Tuner IC ***NEW!***	30-TSSOP	2184.00/2,000		
TAS5015PFB	296-12995-5-ND	True Digital Audio Amp TAS5015 Digital Audio PWM Processor	48-TQFP	33.66	31.42	29.18
TAS5100ADAP	296-12744-5-ND	Digital Audio PWM Amp	32-HTSSOP	17.85	16.66	15.47
TAS5110DAP	296-12997-5-ND	True Digital Audio Amp TAS5110 PWM Power Output Stage	32-HTSSOP	17.85	16.66	15.47
TAS5111DAD	296-15277-5-ND	Digital Amp Power Stage	32-TSSOP	6.64	5.32	4.49
TAS5112ADCA	296-17673-5-ND	Digital Amp Stereo Power Stage	56-TSSOP	8.00	6.40	5.40
TAS5112ADFD	296-15944-5-ND	Digital Amp Stereo Power Stage	56-TSSOP	8.00	6.40	5.40
TAS5112DFD	296-15330-5-ND	Digital Amp Stereo Power Stage	56-HTSSOP	8.34	6.68	5.63
TAS5121DKD	296-16644-5-ND	Digital Amp Stereo Power Stage	36-PSOP3	6.00	4.80	4.05
TAS5121IDKD	296-17474-5-ND	Digital Amp Stereo Power Stage	36-PSOP3	6.80	5.44	4.59
TAS5122DCA	296-18835-5-ND	30W Stereo Digital Amp Power Stage	56-HTSSOP	6.30	5.04	4.26
TAS5142DDV	296-18033-5-ND	Digital Amp Stereo Power Stage	44-HTSSOP	6.60	5.28	4.46
TAS5142DKD	296-17861-5-ND	Stereo Digital Amp Power Stage	36-PSOP3	7.80	6.24	5.27
TAS5152DKD	296-17901-5-ND	Stereo Digital Amp Power Stage	36-PSOP3	8.60	6.88	5.81
TAS5182DCA	296-15249-5-ND	100W Stereo Digital Amp Power Stage Controller	56-TSSOP	8.83	7.95	7.05
TAS5182IDCA	296-16663-5-ND	100W Stereo Digital Amp Power Stage Controller	56-TSSOP	9.41	8.48	7.52
TAS5186ADDV	296-19320-5-ND	6-Ch., 210W Digital Amp Power Stage ***NEW!***	44-HTSSOP	8.50	7.65	6.79
TAS5186ADDVR	296-19321-1-ND	6-Ch., 210W Digital Amp Power Stage ***NEW!***	44-HTSSOP	8.50	7.65	6.79
TAS5186ADDVR	296-19321-2-ND	6-Ch., 210W Digital Amp Power Stage ***NEW!***	44-HTSSOP	12598.00/2,000		
TAS5186DDV	296-18071-5-ND	6-Ch., 210W, Digital Amp Power Stage	44-HTSSOP	8.50	7.65	6.79
THS3001CD	296-1762-5-ND	420MHz Current-Feedback Op Amp	8-SOIC	6.10	4.88	4.12
THS3001HVIDGN	296-19419-5-ND	420MHz Current-Feedback Op Amp ***NEW!***	8-MSOP	8.58	7.73	6.85
THS3001ID	296-7507-5-ND	420MHz Current-Feedback Op Amp	8-SOIC	6.30	5.04	4.26
THS3001IDGNR	296-12006-1-ND	420MHz Current-Feedback Op Amp	8-MSOP	6.30	5.04	4.26
THS3001IDGNR	296-12006-2-ND	420MHz Current-Feedback Op Amp	8-MSOP	9765.00/2,500		
THS3061D	296-13502-5-ND	Single, Low Distortion, High Slew-Rate Current-Feedback Amp	8-SOIC	5.90	4.72	3.99
THS3061DGN	296-13613-5-ND	Single, Low Distortion, High Slew-Rate, Current-Feedback Amp	8-MSOP	5.90	4.72	3.99
THS3062D	296-13821-5-ND	Dual, Low Distortion, High Slew-Rate Current-Feedback Amp	8-SOIC	8.50	6.80	5.74
THS3062DDA	296-13503-5-ND	Dual, Low Distortion, High Slew-Rate Current-Feedback Amp	8-SOIC	8.50	6.80	5.74
THS3062DGN	296-13614-5-ND	Dual, Low Distortion, High Slew-Rate, Current-Feedback Amp	8-MSOP	8.50	6.80	5.74
THS3091D	296-16671-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	5.51	4.41	3.43
THS3091DDA	296-15789-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	5.30	4.24	3.58
THS3091EVM	296-16738-ND	Evaluation Module For THS3091	—	62.78	—	—
THS3092D	296-18836-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	7.80	6.24	5.27
THS3092DDA	296-18210-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	8.20	6.56	5.54
THS3092EVM	296-18837-ND	Evaluation Module for THS3092	—	62.78	—	—
THS3095D	296-16672-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	5.10	4.08	3.45
THS3095DDA	296-15790-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	8-SOIC	5.50	4.40	3.72
THS3095EVM	296-16739-ND	Evaluation Module For THS3095	—	62.78	—	—
THS3096D	296-18838-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	14-SOIC	8.00	6.40	5.40

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
THS3096EVM	296-18839-ND	Evaluation Module for THS3096	—	62.78	—	—
THS3096PWP	296-18840-5-ND	High Voltage, Low Distortion, Current-Feedback Op Amp	14-HTSSOP	8.40	6.72	5.67
THS3110EVM	296-18841-ND	Evaluation Module for THS3110	—	62.78	—	—
THS3110ID	296-15768-5-ND	Low Noise, High Voltage, Current-Feedback Op Amp	8-SOIC	2.93	2.34	1.82
THS3110IDGN	296-15769-5-ND	Low Noise, High Voltage, Current-Feedback Op Amp	8-MSOP	3.38	2.70	2.10
THS3111EVM	296-18842-ND	Evaluation Module for THS3111	—	62.78	—	—
THS3111ID	296-15770-5-ND	Low Noise, High Voltage, Current-Feedback Op Amp	8-SOIC	2.81	2.25	1.75
THS3111IDGN	296-15771-5-ND	Low Noise, High Voltage, Current-Feedback Op Amp	8-MSOP	3.26	2.61	2.03
THS3112ID	296-13333-5-ND	Low Noise, High Speed, Current-Feedback Amp	8-SOIC	4.73	3.78	2.94
THS3112IDDAR	296-13334-1-ND	Low Noise, High Speed Current-Feedback Amp	8-SOIC	5.18	4.14	3.22
THS3112IDDAR	296-13334-2-ND	Low Noise, High Speed Current-Feedback Amp	8-SOIC	7245.00/2,500		
THS3115ID	296-13335-5-ND	Low Noise, High Speed Current-Feedback Amp	14-SOIC	4.84	3.87	3.01
THS3115IPWP	296-13336-5-ND	Low Noise, High Speed Current-Feedback Amp	14-TSSOP	5.29	4.23	3.29
THS3120EVM	296-18843-ND	Evaluation Module for THS3120	—	62.78	—	—
THS3120ID	296-15772-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-SOIC	3.96	3.17	2.47
THS3120IDGN	296-15773-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-MSOP	4.39	3.51	2.73
THS3121EVM	296-18844-ND	Evaluation Module for THS3121	—	62.78	—	—
THS3121ID	296-15774-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-SOIC	4.82	3.86	3.00
THS3121IDGN	296-15775-5-ND	Low Noise, High Output Drive, Current-Feedback Op Amp	8-MSOP	4.82	3.86	3.00
THS3122ID	296-13337-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-SOIC	5.80	4.64	3.92
THS3122IDDAR	296-13338-1-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-SOIC	6.18	4.95	4.18
THS3122IDDAR	296-13338-2-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	8-SOIC	9580.00/2,500		
THS3125ID	296-13339-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	14-SOIC	5.90	4.72	3.99
THS3125IPWP	296-13340-5-ND	Low Noise, High Speed, 450mA Current-Feedback Amp	14-TSSOP	6.28	5.03	4.24
THS3201D	296-15216-5-ND	1.8GHz Low Distortion, Current-Feedback Amp	8-SOIC	4.73	3.78	2.94
THS3201DBVT	296-15217-1-ND	1.8GHz Low Distortion, Current-Feedback Amp	SOT-23-5	5.29	4.23	3.29
THS3201DBVT	296-15217-2-ND	1.8GHz Low Distortion, Current-Feedback Amp	SOT-23-5	781.50/250		
THS3201DGK	296-16776-5-ND	1.8GHz Low Distortion, Current-Feedback Amp	8-MSOP	4.73	3.78	2.94
THS3201DGN	296-15218-5-ND	1.8GHz Low Distortion, Current-Feedback Amp	8-MSOP	4.73	3.78	2.94
THS3201EVM	296-18845-ND	Evaluation Module for THS3201	—	62.78	—	—
THS3202D	296-13655-5-ND	2GHz Current-Feedback Amp	8-SOIC	5.80	4.64	3.92
THS3202DGK	296-16777-5-ND	2GHz Current-Feedback Amp	8-MSOP	5.80	4.64	3.92
THS3202DGN	296-13656-5-ND	2GHz Current-Feedback Amp	8-MSOP	5.80	4.64	3.92
THS4001CD	296-1763-5-ND	High Speed, Low Power Op Amp	8-SOIC	4.50	3.60	2.80
THS4001ID	296-1764-5-ND	High Speed, Low Power Op Amp	8-SOIC	4.73	3.78	2.94
THS4011CD	296-2404-5-ND	290MHz High Speed Amp	8-SOIC	3.26	2.61	2.03
THS4011CDGNR	296-7508-1-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	3.71	2.97	2.31
THS4011CDGNR	296-7508-2-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5197.50/2,500		
THS4011ID	296-7509-5-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-SOIC	3.49	2.79	2.17
THS4011IDGNR	296-7510-1-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	3.94	3.15	2.45
THS4011IDGNR	296-7510-2-ND	290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5512.50/2,500		
THS4012CD	296-7511-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-SOIC	5.29	4.23	3.29
THS4012CDGN	296-10023-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5.10	4.08	3.45
THS4012CDGNR	296-10023-1-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5.10	4.08	3.45
THS4012CDGNR	296-10023-2-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	7905.00/2,500		
THS4012ID	296-7513-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-SOIC	5.51	4.41	3.43
THS4012IDGN	296-10025-5-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5.30	4.24	3.58
THS4012IDGNR	296-10025-1-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	5.30	4.24	3.58
THS4012IDGNR	296-10025-2-ND	Dual 290MHz Low-Distortion Voltage-Feedback Op Amp	8-MSOP	8215.00/2,500		
THS4021CD	296-2405-5-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-SOIC	5.20	4.16	3.51
THS4021CDGNR	296-10026-1-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-MSOP	5.20	4.16	3.51
THS4021CDGNR	296-10026-2-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-MSOP	8060.00/2,500		
THS4021ID	296-7516-5-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-SOIC	5.40	4.32	3.65
THS4021IDGNR	296-7517-1-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-MSOP	5.40	4.32	3.65
THS4021IDGNR	296-7517-2-ND	350MHz Ultra-Low Noise Voltage-Feedback Op Amp	8-MSOP	8370.00/2,500		
THS4022CDGNR	296-7518-1-ND	Dual 350MHz Low-Noise Voltage-Feedback Op Amp	8-MSOP	7.30	5.84	4.93
THS4022CDGNR	296-7518-2-ND	Dual 350MHz Low-Noise Voltage-Feedback Op Amp	8-MSOP	11315.00/2,500		
THS4022ID	296-7519-5-ND	Dual 350MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	7.50	6.00	5.07
THS4022IDGNR	296-7520-1-ND	Dual 350MHz Low-Noise Voltage-Feedback Op Amp	8-MSOP	7.50	6.00	5.07
THS4022IDGNR	296-7520-2-ND	Dual 350MHz Low-Noise Voltage-Feedback Op Amp	8-MSOP	11625.00/2,500		
THS4031CD	296-2406-5-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	3.71	2.97	2.31
THS4031CDGNR	296-7521-1-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	4.16	3.33	2.59
THS4031CDGNR	296-7521-2-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	5827.50/2,500		
THS4031ID	296-7522-5-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	3.94	3.15	2.45
THS4031IDGN	296-10030-5-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	4.39	3.51	2.73
THS4031IDGNR	296-10030-1-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	4.39	3.51	2.73
THS4031IDGNR	296-10030-2-ND	100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	6142.50/2,500		
THS4032CD	296-7524-5-ND	Dual 100MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	5.20	4.16	3.51
THS4032ID	296-7525-5-ND	Dual 100MHz Low Noise Voltage-Feedback Op Amp	8-SOIC	5.40	4.32	3.65
THS4032IDGNR	296-7526-1-ND	Dual 100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	5.80	4.64	3.92
THS4032IDGNR	296-7526-2-ND	Dual 100MHz Low Noise Voltage-Feedback Op Amp	8-MSOP	8990.00/2,500		
THS4041CD	296-2407-5-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	3.71	2.97	2.31
THS4041CDGNR	296-7527-1-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	3.71	2.97	2.31
THS4041CDGNR	296-7527-2-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	5197.50/2,500		
THS4041ID	296-7528-5-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	3.94	3.15	2.45
THS4041IDGN	296-10033-5-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	3.94	3.15	2.45
THS4041IDGNR	296-10033-1-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	3.94	3.15	2.45
THS4041IDGNR	296-10033-2-ND	165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	5512.50/2,500		
THS4042CD	296-7530-5-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	6.50	5.20	4.39
THS4042CDGNR	296-7531-1-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	6.50	5.20	4.39
THS4042CDGNR	296-7531-2-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	10075.00/2,500		
THS4042ID	296-7532-5-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-SOIC	6.70	5.36	4.53
THS4042IDGNR	296-7533-1-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	6.70	5.36	4.53
THS4042IDGNR	296-7533-2-ND	Dual 165MHz Capacitive-Stable Voltage-Feedback Op Amp	8-MSOP	10385.00/2,500		
THS4051CD	296-2408-5-ND	70MHz High Speed Amp	8-SOIC	2.25	1.80	1.35
THS4051CDGNR	296-7534-1-ND	70MHz Voltage-Feedback Op Amp	8-MSOP	2.45	1.97	1.53
THS4051CDGNR	296-7534-2-ND	70MHz Voltage-Feedback Op Amp	8-MSOP	3432.50/2,500		
THS4051ID	296-7535-5-ND	70MHz Voltage-Feedback Op Amp	8-SOIC	2.25	1.80	1.40
THS4051IDGNR	296-7536-1-ND	70MHz Voltage-Feedback Op Amp	8-MSOP	2.68	2.15	1.67
THS4051IDGNR	296-7536-2-ND	70MHz Voltage-Feedback Op Amp	8-MSOP	3747.50/2,500		
THS4052CD	296-7537-5-ND	Dual 70MHz Volt.-Feedback Op Amp	8-SOIC	3.11	2.49	1.94
THS4052CDGNR	296-7538-1-ND	Dual 70MHz Volt.-Feedback Op Amp	8-MSOP	3.53	2.83	2.20
THS4052CDGNR	296-7538-2-ND	Dual 70MHz Volt.-Feedback Op Amp	8-MSOP	4945.00/2,500		
THS4052ID	296-7539-5-ND	Dual 70MHz Volt.-Feedback Op Amp	8-SOIC	3.31	2.65	2.06
THS4052IDGNR	296-7540-1-ND	Dual 70MHz Volt.-Feedback Op Amp	8-MSOP	3.74	2.99	2.33
THS4052IDGNR	296-7540-2-ND	Dual 70MHz Volt.-Feedback Op Amp	8-MSOP	5230.00/2,500		
THS4061CD	296-2409-5-ND	180MHz HS, Voltage-Feedback Amp	8-SOIC	3.15	2.52	1.96
THS4061CDGNR	296-13341-1-ND	180MHz HS, Voltage-Feedback Amp	8-MSOP	3.15	2.52	1.96
THS4061CDGNR	296-13341-2-ND	180MHz HS, Voltage-Feedback Amp	8-MSOP	4410.00/2,500		
THS4061ID	296-7541-5-ND	180MHz HS, Voltage Feedback Amp	8-SOIC	3.38	2.70	2.10
THS4061IDGNR	296-13342-1-ND	180MHz HS, Voltage-Feedback Amp	8-MSOP	3.38	2.70	2.10
THS4061IDGNR	296-13342-2-ND	180MHz HS, Voltage Feedback Amp	8-MSOP	4725.00/2,500		
THS4062CD	296-7542-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-SOIC	4.39	3.51	2.73
THS4062CDGN	296-7543-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	4.39	3.51	2.73
THS4062ID	296-7544-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-SOIC	4.61	3.69	2.87
THS4062IDGN	296-7545-5-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	4.61	3.69	2.87
THS4062IDGNR	296-7546-1-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	4.61	3.69	2.87
THS4062IDGNR	296-7546-2-ND	Dual 180MHz Volt.-Feedback Op Amp	8-MSOP	6457.50/2,500		
THS4081CD	296-2410-5-ND	175MHz LP Volt.-Feedback Op Amp	8-SOIC	2.70	2.16	1.68
THS4081CDGNR	296-7547-1-ND	175MHz LP Volt.-Feedback Op Amp	8-MSOP	3.15	2.52	1.96
THS4081CDGNR	296-7547-2-ND	175MHz LP Volt.-Feedback Op Amp	8-MSOP	4410.00/2,500		
THS4081ID	296-7548-5-ND	175MHz LP Volt.-Feedback Op Amp	8-SOIC	2.93	2.34	1.82
THS4081IDGN	296-10039-5-ND	175MHz LP Volt.-Feedback Op Amp	8-MSOP	3.38	2.70	2.10
THS4081IDGNR	296-10039-1-ND	175MHz LP Volt.-Feedback Op Amp	8-MSOP	3.38	2.70	2.10
THS4081IDGNR	296-10039-2-ND	175MHz LP Volt.-Feedback Op Amp	8-MSOP	4725.00/2,500		
THS4082CD	296-7550-5-ND	Dual 175MHz LP V-Feedback Op Amp	8-SOIC	4.28	3.42	2.66
THS4082CDGNR	296-7551-1-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	4.73	3.78	2.94
THS4082CDGNR	296-7551-2-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	6615.00/2,500		
THS4082ID	296-7552-5-ND	Dual 175MHz LP V-Feedback Op Amp	8-SOIC	4.50	3.60	2.80
THS4082IDGNR	296-7553-1-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	4.95	3.96	3.08
THS4082IDGNR	296-7553-2-ND	Dual 175MHz LP V-Feedback Op Amp	8-MSOP	6930.00/2,500		
THS4120ID	296-11983-5-ND	Fully Differential I/O CMOS Amp with Shutdown	8-SOIC	4.50	3.60	2.80
THS4120IDGK	296-18846-5-ND	Fully Differential I/O CMOS Amp with Shutdown	8-MSOP	4.50	3.60	2.80
THS4120IDGNR	296-12493-5-ND	HS, Fully Differential I/O CMOS Amp	8-MSOP	4.50	3.60	2.80
THS4120IDR	296-11983-1-ND	Fully Differential I/O Out CMOS Amp with Shutdown	8-SOIC	4.50	3.60	2.80
THS4120IDR	296-11983-2-ND	Fully Differential I/O Out CMOS Amp with Shutdown	8-SOIC	6300.00/2,500		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
THS4121CD	296-10041-5-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-SOIC	4.28	3.42	2.66
THS4121ID	296-10042-5-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-SOIC	4.50	3.60	2.80
THS4121IDGK	296-17555-5-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-MSOP	4.50	3.60	2.80
THS4121IDGNR	296-13343-1-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-MSOP	4.50	3.60	2.80
THS4121IDGNR	296-13343-2-ND	100MHz, High Speed, Fully Differential I/O CMOS Amp	8-MSOP	6300.00/2,500		
THS4130ID	296-7554-5-ND	HS, Low Noise Differential I/O Amp	8-SOIC	5.80	4.64	3.92
THS4130IDGK	296-18847-5-ND	HS, Low Noise Differential I/O Amp	8-MSOP	5.80	4.64	3.92
THS4130IDGNR	296-10044-1-ND	HS, Low Noise Differential I/O Amp	8-MSOP	6.20	4.96	4.19
THS4130IDGNR	296-10044-2-ND	HS, Low Noise Differential I/O Amp	8-MSOP	9610.00/2,500		
THS4131ID	296-10046-5-ND	150MHz Fully Differential I/O Amp	8-SOIC	5.70	4.56	3.85
THS4131IDGK	296-17881-5-ND	150MHz Fully Differential I/O Amp	8-MSOP	5.70	4.56	3.85
THS4131IDGNR	296-10047-1-ND	150MHz Fully Differential I/O Amp	8-MSOP	6.10	4.88	4.12
THS4131IDGNR	296-10047-2-ND	150MHz Fully Differential I/O Amp	8-MSOP	9455.00/2,500		
THS4140ID	296-7555-5-ND	Diff. In/Out Op Amp with Shutdown	8-SOIC	7.00	5.60	4.73
THS4140IDGK	296-16778-5-ND	Diff. In/Out Op Amp with Shutdown	8-MSOP	7.00	5.60	4.73
THS4140IDGNR	296-10049-1-ND	Diff. In/Out Op Amp with Shutdown	8-MSOP	7.00	5.60	4.73
THS4140IDGNR	296-10049-2-ND	Diff. In/Out Op Amp with Shutdown	8-MSOP	10850.00/2,500		
THS4141ID	296-7556-5-ND	HS Fully Differential I/O Amp	8-SOIC	7.00	5.60	4.73
THS4141IDGK	296-16779-5-ND	HS Fully Differential I/O Amp	8-MSOP	7.00	5.60	4.73
THS4141IDGNR	296-12302-1-ND	HS Fully Differential I/O Amp	8-MSOP	7.00	5.60	4.73
THS4141IDGNR	296-12302-2-ND	HS Fully Differential I/O Amp	8-MSOP	10850.00/2,500		
THS4150ID	296-10052-5-ND	High Speed, Fully Differential I/O Amp with Shutdown	8-SOIC	9.60	7.68	6.48
THS4150IDGK	296-16780-5-ND	High Speed, Fully Differential I/O Amp with Shutdown	8-MSOP	9.60	7.68	6.48
THS4150IDGNR	296-13344-1-ND	High Speed, Fully Differential I/O Amp with Shutdown	8-MSOP	9.60	7.68	6.48
THS4150IDGNR	296-13344-2-ND	High Speed, Fully Differential I/O Amp with Shutdown	8-MSOP	14880.00/2,500		
THS4151ID	296-10054-5-ND	High Speed Fully Diff. I/O Op Amp	8-SOIC	9.60	7.68	6.48
THS4151IDGK	296-16781-5-ND	High Speed Fully Diff. I/O Op Amp	8-MSOP	9.60	7.68	6.48
THS4151IDGNR	296-12303-1-ND	High Speed Fully Diff. I/O Op Amp	8-MSOP	9.60	7.68	6.48
THS4151IDGNR	296-12303-2-ND	High Speed Fully Diff. I/O Op Amp	8-MSOP	14880.00/2,500		
THS4211D	296-13790-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SOIC	4.28	3.42	2.66
THS4211DGK	296-16709-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	4.28	3.42	2.66
THS4211DGN	296-13657-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	4.28	3.42	2.66
THS4211DRBT	296-16710-1-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	4.50	3.60	2.80
THS4211DRBT	296-16710-2-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	665.00/250		
THS4215D	296-13791-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-SOIC	4.28	3.42	2.66
THS4215DGK	296-16711-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	4.28	3.42	2.66
THS4215DGN	296-13658-5-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	4.28	3.42	2.66
THS4215DRBR	296-16712-1-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	4.28	3.42	2.66
THS4215DRBR	296-16712-2-ND	Low Distortion, High Speed, Voltage Feedback Amp	8-MSOP	7182.00/3,000		
THS4221D	296-14194-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-SOIC	3.26	2.61	2.03
THS4221DBVR	296-15112-1-ND	Low Distortion, High Speed, R/R, Output Op Amp	SOT-23-5	3.26	2.61	2.03
THS4221DBVR	296-15112-2-ND	Low Distortion, High Speed, R/R, Output Op Amp	SOT-23-5	5481.00/3,000		
THS4221DGK	296-16782-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	3.26	2.61	2.03
THS4221DGN	296-14402-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-HTSSOP	3.26	2.61	2.03
THS4221EVM	296-18848-ND	Evaluation Module for THS4221	—	62.78	—	—
THS4222D	296-13822-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-SOIC	4.28	3.42	2.66
THS4222DGK	296-16783-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	4.28	3.42	2.66
THS4222DGN	296-13638-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	4.28	3.42	2.66
THS4225D	296-14195-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-SOIC	3.26	2.61	2.03
THS4225DGK	296-16784-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	3.26	2.61	2.03
THS4225DGN	296-14403-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-HTSSOP	3.26	2.61	2.03
THS4225EVM	296-18849-ND	Evaluation Module for THS4225	—	62.78	—	—
THS4226DGQ	296-13639-5-ND	Low Distortion, High Speed, R/R, Output Op Amp	8-MSOP	4.28	3.42	2.66
THS4226EVM	296-18850-ND	Evaluation Module for THS4226	—	62.78	—	—
THS4271D	296-13823-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SOIC	5.06	4.05	3.15
THS4271DGK	296-16785-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.06	4.05	3.15
THS4271DGN	296-13659-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.51	4.41	3.43
THS4271DRBR	296-15262-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.06	4.05	3.15
THS4271DRBR	296-15262-2-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	8505.00/3,000		
THS4271DRBT	296-15405-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.00	4.00	3.38
THS4271DRBT	296-15405-2-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	812.50/250		
THS4271MDGNREP	296-18134-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	13.06	11.76	10.43
THS4271MDGNREP	296-18134-2-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	23815.00/2,500		
THS4275D	296-13824-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-SOIC	5.18	4.14	3.22
THS4275DGK	296-16786-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.18	4.14	3.22
THS4275DGN	296-13660-5-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.00	4.00	3.38
THS4275DRBR	296-15263-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.18	4.14	3.22
THS4275DRBR	296-15263-2-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	8694.00/3,000		
THS4275DRBT	296-15406-1-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	5.10	4.08	3.45
THS4275DRBT	296-15406-2-ND	Low Noise, High Slew Rate, Unity Gain Stable Voltage Feedback Amp	8-MSOP	828.75/250		
THS4281D	296-16999-5-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	8-SOIC	2.25	1.80	1.35
THS4281DBVT	296-17000-1-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	SOT-23-5	2.25	1.80	1.40
THS4281DBVT	296-17000-2-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	SOT-23-5	332.50/250		
THS4281DGK	296-17001-5-ND	LP, HS, R/R I/O Voltage Feedback Op Amp	8-MSOP	2.25	1.80	1.35
THS4281EVM	296-18851-ND	Evaluation Module for THS4281	—	62.78	—	—
THS4302RGTR	296-14048-1-ND	Wideband Fixed-Gain Amp	16-RGT	5.18	4.14	3.22
THS4302RGTR	296-14048-2-ND	Wideband Fixed-Gain Amp	16-RGT	8694.00/3,000		
THS4303RGTT	296-16658-1-ND	Wideband Fixed-Gain Amp	16-RGT	5.18	4.14	3.22
THS4303EVM	296-18852-ND	Evaluation Module for THS4303	—	62.78	—	—
THS4303RGTT	296-16658-2-ND	Wideband Fixed-Gain Amp	16-RGT	764.75/250		
THS4304D	296-17250-5-ND	Wideband Op Amp	8-SOIC	3.94	3.15	2.45
THS4304DBVEVM	296-18853-ND	Evaluation Module for THS4304DBV	—	62.78	—	—
THS4304DBVT	296-17251-1-ND	Wideband Op Amp	SOT-23-5	4.39	3.51	2.73
THS4304DBVT	296-17251-2-ND	Wideband Op Amp	SOT-23-5	648.50/250		
THS4304DGK	296-17252-5-ND	Wideband Op Amp	8-MSOP	3.94	3.15	2.45
THS4304DGKEVM	296-18854-ND	Evaluation Module for THS4304DGK	—	62.78	—	—
THS4500ID	296-12935-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	7.50	6.00	5.07
THS4500IDGK	296-16787-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	7.50	6.00	5.07
THS4500IDGN	296-13045-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	7.50	6.00	5.07
THS4501ID	296-12936-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	7.50	6.00	5.07
THS4501IDGK	296-16788-5-ND	Wideband LowDistortion Fully Differential Amp	8-MSOP	7.50	6.00	5.07
THS4501IDGN	296-13046-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	7.50	6.00	5.07
THS4502ID	296-12937-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	8.20	6.56	5.54
THS4502IDGK	296-16789-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	8.20	6.56	5.54
THS4502IDGN	296-13047-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	8.20	6.56	5.54
THS4503ID	296-12938-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	8.20	6.56	5.54
THS4503IDGK	296-16790-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	8.20	6.56	5.54
THS4503IDGN	296-13048-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	8.20	6.56	5.54
THS4503MDGNREP	296-19510-1-ND	Wideband Low Distortion Fully Differential Amp ***NEW!***	8-MSOP	16.92	15.80	14.67
THS4503MDGNREP	296-19510-2-ND	Wideband Low Distortion Fully Differential Amp ***NEW!***	8-MSOP	34262.50/2,500		
THS4504D	296-15618-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	3.74	2.99	2.33
THS4504DGK	296-16796-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	3.74	2.99	2.33
THS4504DGN	296-15619-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	3.74	2.99	2.33
THS4505D	296-15620-5-ND	Wideband Low Distortion Fully Differential Amp	8-SOIC	3.74	2.99	2.33
THS4505DGK	296-16791-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	3.74	2.99	2.33
THS4505DGN	296-15621-5-ND	Wideband Low Distortion Fully Differential Amp	8-MSOP	3.74	2.99	2.33
THS4508RGTT	296-19324-1-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp ***NEW!***	16-QFN	8.70	6.96	5.88
THS4508RGTT	296-19324-2-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp ***NEW!***	16-QFN	1413.75/250		
THS4509EVM	296-18855-ND	Evaluation Module for THS4509	—	62.78	—	—
THS4509RGTT	296-17730-1-ND	Wideband Low Distortion Fully Differential Amp	16-QFN	8.30	6.64	5.61
THS4509RGTT	296-17730-2-ND	Wideband Low Distortion Fully Differential Amp	16-QFN	1348.75/250		
THS4511RGTT	296-19325-1-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp ***NEW!***	16-QFN	7.60	6.08	5.13
THS4511RGTT	296-19325-2-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp ***NEW!***	16-QFN	1235.00/250		
THS4513RGTT	296-18594-1-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-QFN	7.20	5.76	4.86
THS4513RGTT	296-18594-2-ND	Wideband, Low Noise, Low Distortion Fully Differential Amp	16-QFN	1170.00/250		
THS4601D	296-12495-5-ND	Wideband, FET-Input High Speed Op Amp	8-SOIC	15.08	14.07	13.07
THS4601IDDA	296-16691-ND	Wideband, FET-Input High Speed Op Amp	8-SOIC	15.08	14.07	13.07
THS4631D	296-17626-5-ND	High Volt. High Slew Rate, Wideband FET-Input Op Amp	8-SOIC	7.50	6.00	5.07
THS4631DDA	296-17674-5-ND	High Volt. High Slew Rate, Wideband FET-Input Op Amp	8-SOIC	7.90	6.32	5.34
THS4631DGN	296-17675-5-ND	High Volt. High Slew Rate, Wideband FET-Input Op Amp	8-MSOP	7.90	6.32	5.34

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
THS6062CDGN	296-10068-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	5.29	4.23	3.29
THS6062CDGNR	296-10068-1-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	5.29	4.23	3.29
THS6062CDGNR	296-10068-2-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	7402.50/2,500		
THS6062ID	296-10070-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-SOIC	5.29	4.23	3.29
THS6062IDGN	296-10072-5-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	5.29	4.23	3.29
THS6062IDGNR	296-10072-1-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	5.29	4.23	3.29
THS6062IDGNR	296-10072-2-ND	High Speed, Low Noise ADSL Dual Differential Receiver	8-MSOP	7402.50/2,500		
THS6072CDGNR	296-10073-1-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	5.02	4.02	3.13
THS6072CDGNR	296-10073-2-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	7025.00/2,500		
THS6072ID	296-10075-5-ND	High Speed, Low Power ADSL Differential Receiver	8-SOIC	5.02	4.02	3.13
THS6072IDGNR	296-10076-1-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	5.02	4.02	3.13
THS6072IDGNR	296-10076-2-ND	High Speed, Low Power ADSL Differential Receiver	8-MSOP	7025.00/2,500		
THS7001CPWP	296-2411-5-ND	70MHz, HS Prog. Gain Amp	20-HTSSOP	9.40	7.52	6.35
THS7001IPWP	296-7048-5-ND	70MHz, HS Prog. Gain Amp	20-HTSSOP	9.40	7.52	6.35
THS7002CPWP	296-2412-5-ND	Dual, 70MHz, HS Prog. Gain Amp	28-HTSSOP	11.16	10.05	8.92
THS7002IPWP	296-7049-5-ND	Dual, 70MHz, HS Prog. Gain Amp	28-HTSSOP	11.16	10.05	8.92
THS7303PW	296-19326-5-ND	3-Channel, Low Power Video Amp ***NEW!***	20-TSSOP	3.71	2.97	2.31
THS7313PW	296-19327-5-ND	3-Channel, Low Power SDTV Video Amp ***NEW!***	20-TSSOP	2.70	2.16	1.68
THS7353PW	296-19328-5-ND	3-Channel, Low Power Video Buffer ***NEW!***	20-TSSOP	3.71	2.97	2.31
THS7530EVM	296-18858-ND	Evaluation Module for THS7530	—	62.78	—	—
THS7530PWP	296-15181-5-ND	High Speed, Differential, Continously Variable Gain Amp	14-HTSSOP	7.70	6.16	5.20
THS8200PFP	296-15622-ND	All-Format Oversampled Component Video/PC Graphics D/A System	80-TQFP	10.00	9.00	7.98
THS9000DRDT	296-16692-1-ND	50 to 400MHz Cascadeable Amp	6-SON	2.59	2.07	1.61
THS9000DRDT	296-16692-2-ND	50 to 400MHz Cascadeable Amp	6-SON	382.50/250		
THS9000EVM	296-18859-ND	Evaluation Module for THS9000	—	62.78	—	—
THS9001DBVT	296-16645-1-ND	50 to 350MHz Cascadeable Amp	SOT-23-6	2.59	2.07	1.61
THS9001DBVT	296-16645-2-ND	50 to 350MHz Cascadeable Amp	SOT-23-6	382.50/250		
THS9001EVM	296-18860-ND	Evaluation Module for THS9001	—	62.78	—	—
TL022CP	296-7142-5-ND	Dual, Low Power Op Amp	8-Dip	1.25	1.00	.75
TL026CD	296-11818-5-ND	Diff. High Frequency Amp with AGC	8-SOIC	1.25	1.00	.75
TL026CP	296-11819-5-ND	Diff. High Frequency Amp with AGC	8-Dip	1.25	1.00	.75
TL031CD	296-7143-5-ND	Precision LP JFET Op Amp	8-SOIC	.87	.73	.58
TL031CP	296-7144-5-ND	Precision LP JFET Op Amp	8-Dip	.87	.73	.58
TL032ACD	296-7145-5-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	2.13	1.70	1.28
TL032ACDR	296-14979-1-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	2.13	1.70	1.28
TL032ACDR	296-14979-2-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	2720.00/2,500		
TL032ACP	296-7146-5-ND	Dual LP Enhanced JFET Op Amp	8-Dip	2.13	1.70	1.28
TL032AID	296-12939-5-ND	Dual LP Enhanced JFET Op Amp	8-SOIC	1.88	1.50	1.13
TL032AIP	296-7147-5-ND	Dual LP Enhanced JFET Op Amp	8-Dip	2.13	1.70	1.28
TL032CD	296-7148-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1.35	1.13	.90
TL032CDR	296-7148-1-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1.35	1.13	.90
TL032CDR	296-7148-2-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1462.50/2,500		
TL032CP	296-7149-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-Dip	1.35	1.13	.90
TL032ID	296-7150-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1.25	1.00	.75
TL032IDR	296-14980-1-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1.25	1.00	.75
TL032IDR	296-14980-2-ND	Dual Prec. LP Enhanced JFET Op Amp	8-SOIC	1600.00/2,500		
TL032IP	296-7151-5-ND	Dual Prec. LP Enhanced JFET Op Amp	8-Dip	1.25	1.00	.75
TL034ACD	296-7152-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	3.71	2.97	2.31
TL034ACDR	296-14981-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	3.71	2.97	2.31
TL034ACDR	296-14981-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	5197.50/2,500		
TL034AID	296-7153-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	4.05	3.24	2.52
TL034AIDR	296-7153-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	4.05	3.24	2.52
TL034AIDR	296-7153-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	5670.00/2,500		
TL034CD	296-7154-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1.25	1.00	.75
TL034CDR	296-14982-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1.25	1.00	.75
TL034CDR	296-14982-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1600.00/2,500		
TL034CN	296-7155-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-Dip	1.25	1.00	.75
TL034CNSR	296-13346-1-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOP	1.25	1.00	.75
TL034CNSR	296-13346-2-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOP	1300.00/2,000		
TL034ID	296-7157-5-ND	Quad Enhanced JFET Low Power Low Offset Op Amp	14-SOIC	1.25	1.00	.75
TL051CD	296-7159-5-ND	Precision Enhanced JFET Op Amp	8-SOIC	1.26	1.05	.84
TL052ACD	296-7160-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.63	1.30	.98
TL052ACDR	296-14983-1-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.63	1.30	.98
TL052ACDR	296-14983-2-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	2080.00/2,500		
TL052ACP	296-7161-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	1.63	1.30	.98
TL052CD	296-7162-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.75	1.40	1.05
TL052CP	296-7163-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	1.75	1.40	1.05
TL052CPSR	296-13347-1-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOP	1.75	1.40	1.05
TL052CPSR	296-13347-2-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOP	1820.00/2,000		
TL052ID	296-7164-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.88	1.50	1.13
TL052IDR	296-14984-1-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	1.88	1.50	1.13
TL052IDR	296-14984-2-ND	Dual Enhanced JFET Low Offset Op Amp	8-SOIC	2400.00/2,500		
TL052IP	296-17224-5-ND	Dual Enhanced JFET Low Offset Op Amp	8-Dip	1.88	1.50	1.13
TL054ACD	296-7165-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	5.51	4.41	3.43
TL054ACN	296-7166-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	5.51	4.41	3.43
TL054AIDR	296-7167-1-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	5.00	4.00	3.38
TL054AIDR	296-7167-2-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	7750.00/2,500		
TL054CD	296-7168-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOIC	1.80	1.44	1.08
TL054CN	296-7169-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	1.80	1.44	1.08
TL054CNSR	296-13348-1-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOP	1.80	1.44	1.08
TL054CNSR	296-13348-2-ND	Quad Enhanced JFET Low Offset Op Amp	14-SOP	1872.00/2,000		
TL054IN	296-12940-5-ND	Quad Enhanced JFET Low Offset Op Amp	14-Dip	2.03	1.62	1.22
TL061ACD	296-7171-5-ND	Low Power JFET Op Amp	8-SOIC	.75	.63	.50
TL061ACDR	296-14985-1-ND	Low Power JFET Op Amp	8-SOIC	.75	.63	.50
TL061ACDR	296-14985-2-ND	Low Power JFET Op Amp	8-SOIC	812.50/2,500		
TL061ACP	296-7172-5-ND	Low Power JFET Op Amp	8-Dip	.75	.63	.50
TL061CD	296-12941-5-ND	Low Power JFET Op Amp	8-SOIC	.56	.42	.32
TL061CP	296-12942-5-ND	Low Power JFET Op Amp	8-Dip	.56	.42	.32
TL061ID	296-7173-5-ND	Low Power JFET Op Amp	8-SOIC	.96	.72	.54
TL061IDR	296-14986-1-ND	Low Power JFET Op Amp	8-SOIC	.96	.72	.54
TL061IDR	296-14986-2-ND	Low Power JFET Op Amp	8-SOIC	780.00/2,500		
TL061IP	296-7174-5-ND	Low Power JFET Op Amp	8-Dip	.96	.72	.54
TL062ACD	296-7175-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.80	.60	.45
TL062ACDR	296-14987-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.80	.60	.45
TL062ACDR	296-14987-2-ND	Dual Low Power JFET Op Amp	8-SOIC	650.00/2,500		
TL062ACP	296-12943-5-ND	Dual Low Power JFET Op Amp	8-Dip	.80	.60	.45
TL062BCD	296-12944-5-ND	Dual Low Power JFET Op Amp	8-SOIC	1.14	.95	.76
TL062BCDR	296-14988-1-ND	Dual Low Power JFET Op Amp	8-SOIC	1.14	.95	.76
TL062BCDR	296-14988-2-ND	Dual Low Power JFET Op Amp	8-SOIC	1235.00/2,500		
TL062BCP	296-7176-5-ND	Dual Low Power JFET Op Amp	8-Dip	1.14	.95	.76
TL062CD	296-1281-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.64	.48	.36
TL062CDR	296-1281-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.64	.48	.36
TL062CDR	296-1281-2-ND	Dual Low Power JFET Op Amp	8-SOIC	520.00/2,500		
TL062CP	296-1771-5-ND	Dual Low Power JFET Op Amp	8-Dip	.64	.48	.36
TL062CPWR	296-7178-1-ND	Dual Low Power JFET Op Amp	8-TSSOP	.64	.48	.36
TL062CPWR	296-7178-2-ND	Dual Low Power JFET Op Amp	8-TSSOP	426.00/2,000		
TL062ID	296-7179-5-ND	Dual Low Power JFET Op Amp	8-SOIC	.64	.48	.36
TL062IDR	296-15072-1-ND	Dual Low Power JFET Op Amp	8-SOIC	.64	.48	.36
TL062IDR	296-15072-2-ND	Dual Low Power JFET Op Amp	8-SOIC	520.00/2,500		
TL062IP	296-12945-5-ND	Dual Low Power JFET Op Amp	8-Dip	.64	.48	.36
TL062IPWR	296-17449-1-ND	Dual Low Power JFET Op Amp	8-TSSOP	.64	.48	.36
TL062IPWR	296-17449-2-ND	Dual Low Power JFET Op Amp	8-TSSOP	426.00/2,000		
TL064ACD	296-7180-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.75	.63	.50
TL064ACDR	296-14989-1-ND	Quad Low Power JFET Op Amp	14-SOIC	.75	.63	.50
TL064ACDR	296-14989-2-ND	Quad Low Power JFET Op Amp	14-SOIC	812.50/2,500		
TL064ACN	296-13014-5-ND	Quad Low Power JFET Op Amp	14-Dip	.75	.63	.50
TL064BCD	296-7181-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.84	.70	.56
TL064BCDR	296-14990-1-ND	Quad Low Power JFET Op Amp	8-SOIC	.84	.70	.56
TL064BCDR	296-14990-2-ND	Quad Low Power JFET Op Amp	8-SOIC	910.00/2,500		
TL064BCN	296-12946-5-ND	Quad Low Power JFET Op Amp	14-Dip	.84	.70	.56
TL064CD	296-1772-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.80	.60	.45
TL064CDR	296-14991-1-ND	Quad Low Power JFET Op Amp	14-SOIC	.80	.60	.45
TL064CDR	296-14991-2-ND	Quad Low Power JFET Op Amp	14-SOIC	650.00/2,500		
TL064CN	296-1773-5-ND	Quad Low Power JFET Op Amp	14-Dip	.80	.60	.45
TL064CPWR	296-7182-1-ND	Quad Low Power JFET Op Amp	14-TSSOP	.80	.60	.45
TL064CPWR	296-7182-2-ND	Quad Low Power JFET Op Amp	14-TSSOP	532.00/2,000		
TL064ID	296-7183-5-ND	Quad Low Power JFET Op Amp	14-SOIC	.80	.60	.45
TL064IDR	296-14992-1-ND	Quad Low Power JFET Op Amp	14-SOIC	.80	.60	.45
TL064IDR	296-14992-2-ND	Quad Low Power JFET Op Amp	14-SOIC	650.00/2,500		
TL064IN	296-7184-5-ND	Quad Low Power JFET Op Amp	14-Dip	.80	.60	.45
TL071ACDR	296-14993-1-ND	Low Noise JFET Op Amp	8-SOIC	.72	.54	.41
TL071ACDR	296-14993-2-ND	Low Noise JFET Op Amp	8-SOIC	585.00/2,500		
TL071ACP	296-7185-5-ND	Low Noise JFET Op Amp	8-Dip	.72	.54	.41
TL071CD	296-12947-5-ND	Low Noise JFET Op Amp	8-SOIC	.48	.36	.27
TL071CDR	296-14994-1-ND	Low Noise JFET Op Amp	8-SOIC	.48	.36	.27
TL071CDR	296-14994-2-ND	Low Noise JFET Op Amp	8-SOIC	390.00/2,500		
TL071CP	296-7186-5-ND	Low Noise JFET Op Amp	8-Dip	.48	.36	.27
TL071ID	296-7187-5-ND	Low Noise JFET Op Amp	8-SOIC	.80	.60	.45
TL071IP	296-7188-5-ND	Low Noise JFET Op Amp	8-Dip	.80	.60	.45
TL072ACD	296-7189-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.80	.60	.45
TL072ACDR	296-14995-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	.80	.60	.45
TL072ACDR	296-14995-2-ND	Dual Low Noise JFET Op Amp	8-SOIC	650.00/2,500		
TL072ACP	296-7190-5-ND	Low Noise JFET Op Amp	8-Dip	.80	.60	.45
TL072BCD	296-7191-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.84	.70	.56
TL072BCDR	296-14996-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	.84	.70	.56
TL072BCDR	296-14996-2-ND	Dual Low Noise JFET Op Amp	8-SOIC	910.00/2,500		
TL072BCP	296-7192-5-ND	Low Noise JFET Op Amp	8-Dip	.84	.70	.56
TL072CD	296-1282-5-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.36
TL072CDR	296-1282-1-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.36
TL072CDR	296-1282-2-ND	Dual JFET-Input Op Amp	8-SOIC	520.00/2,500		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TL072CP	296-1775-5-ND	Dual JFET-Input Op Amp	8-Dip	.64	.48	.36
TL072CPWR	296-7193-1-ND	Dual Low Noise JFET Op Amp	8-TSSOP	.72	.54	.41
TL072CPWR	296-7193-2-ND	Dual Low Noise JFET Op Amp	8-TSSOP	478.00/2,000		
TL072ID	296-7194-5-ND	Dual Low Noise JFET Op Amp	8-SOIC	.64	.48	.36
TL072IDR	296-7194-1-ND	Dual Low Noise JFET Op Amp	8-SOIC	.64	.48	.36
TL072IDR	296-7194-2-ND	Dual Low Noise JFET Op Amp	8-SOIC	520.00/2,500		
TL072IP	296-14997-5-ND	Dual Low Noise JFET Op Amp	8-Dip	.64	.48	.36
TL074ACD	296-7195-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.96	.72	.54
TL074ACDR	296-14998-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.96	.72	.54
TL074ACDR	296-14998-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	780.00/2,500		
TL074ACN	296-12948-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.96	.72	.54
TL074BCD	296-7196-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.84	.70	.56
TL074BCDR	296-14999-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.84	.70	.56
TL074BCDR	296-14999-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	910.00/2,500		
TL074BCN	296-7197-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.84	.70	.56
TL074CD	296-1283-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.76	.57	.43
TL074CDR	296-1283-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.76	.57	.43
TL074CDR	296-1283-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	617.50/2,500		
TL074CN	296-1777-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.76	.57	.43
TL074CPWR	296-7198-1-ND	Quad Low Noise JFET Op Amp	14-TSSOP	.76	.57	.43
TL074CPWR	296-7198-2-ND	Quad Low Noise JFET Op Amp	14-TSSOP	506.00/2,000		
TL074ID	296-7199-5-ND	Quad Low Noise JFET Op Amp	14-SOIC	.80	.60	.45
TL074IDR	296-15000-1-ND	Quad Low Noise JFET Op Amp	14-SOIC	.80	.60	.45
TL074IDR	296-15000-2-ND	Quad Low Noise JFET Op Amp	14-SOIC	650.00/2,500		
TL074IN	296-7200-5-ND	Quad Low Noise JFET Op Amp	14-Dip	.80	.60	.45
TL080CP	296-10127-5-ND	JFET Op Amp	8-Dip	.75	.63	.50
TL081ACD	296-7201-5-ND	JFET Op Amp	8-SOIC	.80	.60	.45
TL081ACP	296-7202-5-ND	JFET Op Amp	8-Dip	.80	.60	.45
TL081CD	296-12949-5-ND	JFET Op Amp	8-SOIC	.48	.36	.27
TL081CDR	296-15001-1-ND	JFET Op Amp	8-SOIC	.48	.36	.27
TL081CDR	296-15001-2-ND	JFET Op Amp	8-SOIC	390.00/2,500		
TL081CP	296-7203-5-ND	JFET Op Amp	8-Dip	.48	.36	.27
TL081ID	296-7204-5-ND	JFET Op Amp	8-SOIC	.80	.60	.45
TL081IDR	296-15002-1-ND	JFET Op Amp	8-SOIC	.80	.60	.45
TL081IDR	296-15002-2-ND	JFET Op Amp	8-SOIC	650.00/2,500		
TL082ACD	296-7205-5-ND	Dual JFET-Input Op Amp	8-SOIC	.80	.60	.45
TL082ACDR	296-15003-1-ND	Dual JFET-Input Op Amp	8-SOIC	.80	.60	.45
TL082ACDR	296-15003-2-ND	Dual JFET-Input Op Amp	8-SOIC	650.00/2,500		
TL082ACP	296-1778-5-ND	Dual JFET-Input Op Amp	8-Dip	.80	.60	.45
TL082BCD	296-7206-5-ND	Dual JFET-Input Op Amp	8-SOIC	.84	.70	.56
TL082BCDR	296-15004-1-ND	Dual JFET-Input Op Amp	8-SOIC	.84	.70	.56
TL082BCDR	296-15004-2-ND	Dual JFET-Input Op Amp	8-SOIC	910.00/2,500		
TL082BCP	296-7207-5-ND	Dual JFET-Input Op Amp	8-Dip	.84	.70	.56
TL082CD	296-1284-5-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.36
TL082CDR	296-1284-1-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.36
TL082CDR	296-1284-2-ND	Dual JFET-Input Op Amp	8-SOIC	520.00/2,500		
TL082CP	296-1780-5-ND	Dual JFET-Input Op Amp	8-Dip	.64	.48	.36
TL082CPWR	296-7208-1-ND	Dual JFET-Input Op Amp	8-TSSOP	.72	.54	.41
TL082CPWR	296-7208-2-ND	Dual JFET-Input Op Amp	8-TSSOP	478.00/2,000		
TL082ID	296-7209-5-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.36
TL082IDR	296-15005-1-ND	Dual JFET-Input Op Amp	8-SOIC	.64	.48	.36
TL082IDR	296-15005-2-ND	Dual JFET-Input Op Amp	8-SOIC	520.00/2,500		
TL082IP	296-1781-5-ND	Dual JFET-Input Op Amp	8-Dip	.64	.48	.36
TL082IPWR	296-17450-1-ND	Dual JFET-Input Op Amp	8-TSSOP	.64	.48	.36
TL082IPWR	296-17450-2-ND	Dual JFET-Input Op Amp	8-TSSOP	426.00/2,000		
TL084ACD	296-7210-5-ND	Quad JFET-Input Op Amp	14-SOIC	.88	.66	.50
TL084ACDR	296-15006-1-ND	Quad JFET-Input Op Amp	8-SOIC	.88	.66	.50
TL084ACDR	296-15006-2-ND	Quad JFET-Input Op Amp	8-SOIC	715.00/2,500		
TL084ACN	296-1782-5-ND	Quad JFET-Input Op Amp	14-Dip	.88	.66	.50
TL084BCD	296-12950-5-ND	Quad JFET-Input Op Amp	14-SOIC	.96	.80	.64
TL084BCDR	296-15007-1-ND	Quad JFET-Input Op Amp	14-SOIC	.96	.80	.64
TL084BCDR	296-15007-2-ND	Quad JFET-Input Op Amp	14-SOIC	1040.00/2,500		
TL084BCN	296-12951-5-ND	Quad JFET-Input Op Amp	14-Dip	.96	.80	.64
TL084CD	296-1285-5-ND	Quad JFET-Input Op Amp	14-SOIC	.80	.60	.45
TL084CDR	296-1285-1-ND	Quad JFET-Input Op Amp	14-SOIC	.76	.57	.43
TL084CDR	296-1285-2-ND	Quad JFET-Input Op Amp	14-SOIC	617.50/2,500		
TL084CN	296-1784-5-ND	Quad JFET-Input Op Amp	14-Dip	.76	.57	.43
TL084ACNSR	296-13349-1-ND	Quad JFET-Input Op Amp	14-SOP	.88	.66	.50
TL084ACNSR	296-13349-2-ND	Quad JFET-Input Op Amp	14-SOP	586.00/2,000		
TL084CNSR	296-7211-1-ND	Quad JFET-Input Op Amp	14-SOP	.80	.60	.45
TL084CNSR	296-7211-2-ND	Quad JFET-Input Op Amp	14-SOP	532.00/2,000		
TL084CPWR	296-7212-1-ND	Quad JFET-Input Op Amp	14-TSSOP	.80	.60	.45
TL084CPWR	296-7212-2-ND	Quad JFET-Input Op Amp	14-TSSOP	532.00/2,000		
TL084ID	296-1785-5-ND	Quad JFET-Input Op Amp	14-SOIC	.88	.66	.50
TL084IDR	296-1785-1-ND	Quad JFET-Input Op Amp	14-SOIC	.88	.66	.50
TL084IDR	296-1785-2-ND	Quad JFET-Input Op Amp	14-SOIC	715.00/2,500		
TL084IN	296-7213-5-ND	Quad JFET-Input Op Amp	14-Dip	.88	.66	.50
TL084QD	296-7214-5-ND	Quad JFET-Input Op Amp	14-SOIC	1.26	1.05	.84
TL103WAIDR	296-18861-1-ND	Dual Op Amp with Internal Reference	8-SOIC	.88	.66	.50
TL103WAIDR	296-18861-2-ND	Dual Op Amp with Internal Reference	8-SOIC	715.00/2,500		
TL103WIDR	296-18862-1-ND	Dual Op Amp with Internal Reference	8-SOIC	.72	.54	.41
TL103WIDR	296-18862-2-ND	Dual Op Amp with Internal Reference	8-SOIC	585.00/2,500		
TL343IDBVR	296-12496-1-ND	Single, Low Power Op Amp	SOT-23-5	.80	.60	.45
TL343IDBVR	296-12496-2-ND	Single, Low Power Op Amp	SOT-23-5	780.00/3,000		
TL441MNSREP	296-18137-1-ND	Logarithmic Amp	16-SOIC	7.56	6.05	5.11
TL441MNSREP	296-18137-2-ND	Logarithmic Amp	16-SOIC	9450.00/2,000		
TL592B-8D	296-10218-5-ND	Differential Video Amplifier	8-SOIC	1.26	1.05	.84
TL592BP	296-10219-5-ND	Differential Video Amplifier	8-Dip	1.26	1.05	.84
TL592BPSR	296-13354-1-ND	Differential Video Amplifier	8-SOP	1.26	1.05	.84
TL592BPSR	296-13354-2-ND	Differential Video Amplifier	8-SOP	1118.00/2,000		
TL783CKC	296-10229-5-ND	High Voltage Adj. Regulator	TO-220AB	1.60	1.28	.96
TL783CKTER	296-15630-1-ND	High Voltage Adj. Regulator	3-PFM	1.60	1.28	.96
TL783CKTER	296-15630-2-ND	High Voltage Adj. Regulator	3-PFM	1664.00/2,000		
TL3414AIDR	296-17539-1-ND	Dual High Output Current Op Amp	8-SOIC	.78	.65	.52
TL3414AIDR	296-17539-2-ND	Dual High Output Current Op Amp	8-SOIC	845.00/2,500		
TL3414AIP	296-17553-5-ND	Dual High Output Current Op Amp	8-Dip	.78	.65	.52
TL3414AIPWR	296-17543-1-ND	Dual High Output Current Op Amp	8-TSSOP	.78	.65	.52
TL3414AIPWR	296-17543-2-ND	Dual High Output Current Op Amp	8-TSSOP	692.00/2,000		
TL3472CD	296-10169-5-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	.60	.45	.34
TL3472CDR	296-10169-1-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	.60	.45	.34
TL3472CDR	296-10169-2-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	487.50/2,500		
TL3472CP	296-10170-5-ND	High Slew Rate, Single Supply Op Amp	8-Dip	.60	.45	.34
TL3472IDR	296-17678-1-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	.92	.69	.52
TL3472IDR	296-17678-2-ND	High Slew Rate, Single Supply Op Amp	8-SOIC	747.50/2,500		
TL3472IP	296-17679-5-ND	High Slew Rate, Single Supply Op Amp	8-Dip	.92	.69	.52
TL3474ACDR	296-15623-1-ND	High Slew Rate, Single Supply Op Amp	14-SOIC	1.35	1.13	.90
TL3474ACDR	296-15623-2-ND	High Slew Rate, Single Supply Op Amp	14-SOIC	1462.50/2,500		
TL3474ACN	296-15624-5-ND	High Slew Rate, Single Supply Op Amp	14-Dip	1.35	1.13	.90
TL3474ACPWR	296-15116-1-ND	High Slew Rate, Single Supply Op Amp	14-TSSOP	1.35	1.13	.90
TL3474ACPWR	296-15116-2-ND	High Slew Rate, Single Supply Op Amp	14-TSSOP	1198.00/2,000		
TL3474AIDR	296-15625-1-ND	High Slew Rate, Single Supply Op Amp	14-SOIC	1.41	1.18	.94
TL3474AIDR	296-15625-2-ND	High Slew Rate, Single Supply Op Amp	14-SOIC	1527.50/2,500		
TL3474AIN	296-15626-5-ND	High Slew Rate, Single Supply Op Amp	14-Dip	1.41	1.18	.94
TL3474AIPWR	296-15117-1-ND	High Slew Rate, Single Supply Op Amp	14-TSSOP	1.41	1.18	.94
TL3474AIPWR	296-15117-2-ND	High Slew Rate, Single Supply Op Amp	14-TSSOP	1250.00/2,000		
TL3474CD	296-14405-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-SOIC	1.11	.93	.74
TL3474CN	296-14406-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-Dip	1.11	.93	.74
TL3474CPWR	296-15118-1-ND	High Slew Rate, Quad Supply Op Amp	14-TSSOP	1.11	.93	.74
TL3474CPWR	296-15118-2-ND	High Slew Rate, Quad Supply Op Amp	14-TSSOP	984.00/2,000		
TL3474ID	296-14407-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-SOIC	1.17	.98	.78
TL3474IN	296-14408-5-ND	Quad, High Slew Rate, Single Supply Op Amp	14-Dip	1.17	.98	.78
TL3474IPWR	296-15119-1-ND	High Slew Rate, Quad Supply Op Amp	14-TSSOP	1.17	.98	.78
TL3474IPWR	296-15119-2-ND	High Slew Rate, Quad Supply Op Amp	14-TSSOP	1038.00/2,000		
TL4581DR	296-15627-1-ND	Dual Low Noise High Drive Op Amp	8-SOIC	.75	.63	.50
TL4581DR	296-15627-2-ND	Dual Low Noise High Drive Op Amp	8-SOIC	812.50/2,500		
TL4581P	296-15628-5-ND	Dual Low Noise High Drive Op Amp	8-Dip	.75	.63	.50
TL4581PSR	296-15629-1-ND	Dual Low Noise High Drive Op Amp	8-SOP	.75	.63	.50
TL4581PSR	296-15629-2-ND	Dual Low Noise High Drive Op Amp	8-SOP	666.00/2,000		
TLC25L2ACD	296-7297-5-ND	Dual Op Amp	8-SOIC	2.68	2.15	1.67
TLC25L2BCD	296-7298-5-ND	Dual Op Amp	8-SOIC	2.88	2.31	1.80
TLC25L2BCP	296-7299-5-ND	Dual Op Amp	8-Dip	2.88	2.31	1.80
TLC25L2CD	296-7300-5-ND	Dual Low Volt. Micropower Op Amp	8-SOIC	2.57	2.06	1.60
TLC25L2CP	296-7301-5-ND	Dual Low Volt. Micropower Op Amp	8-Dip	2.57	2.06	1.60
TLC25L4ACN	296-7303-5-ND	Quad Op Amp	14-Dip	3.74	2.99	2.33
TLC25L4BCD	296-7304-5-ND	Quad Op Amp	14-SOIC	3.96	3.17	2.47
TLC25L4BCN	296-7305-5-ND	Quad Op Amp	14-Dip	3.96	3.17	2.47
TLC25L4CD	296-7306-5-ND	Quad Low Volt. Micropower Op Amp	14-SOIC	3.53	2.83	2.20
TLC25L4CN	296-7307-5-ND	Quad Low Volt. Micropower Op Amp	14-Dip	3.53	2.83	2.20
TLC25M2ACD	296-7308-5-ND	Dual Op Amp	8-SOIC	2.68	2.15	1.67
TLC25M2ACP	296-7309-5-ND	Dual Op Amp	8-Dip	2.68	2.15	1.67
TLC25M2CP	296-7310-5-ND	Dual Low Power Low Voltage Op Amp	8-Dip	2.57	2.06	1.60
TLC25M4BCN	296-7312-5-ND	Quad Op Amp	14-Dip	3.96	3.17	2.47
TLC25M4CD	296-7313-5-ND	Quad Low Power Low Volt. Op Amp	14-SOIC	3.53	2.83	2.20
TLC25M4CN	296-7314-5-ND	Quad Low Power Low Voltage Op Amp	14-Dip	3.53	2.83	2.20
TLC27L1ACP	296-10259-5-ND	Low Power Op Amp	8-Dip	.96	.72	.54
TLC27L1CP	296-15120-5-ND	Low Power Op Amp	8-Dip	.92	.69	.52
TLC27L1ID	296-10260-5-ND	Low Power Op Amp	8-SOIC	.96	.72	.54
TLC27L2ACD	296-7369-5-ND	Dual Precision Op Amp	8-SOIC	.81	.68	.54
TLC27L2ACP	296-7370-5-ND	Dual Precision Op Amp	8-Dip	.81	.68	.54
TLC27L2AID	296-7371-5-ND	Dual Precision Op Amp	8-SOIC	.84	.70	.56
TLC27L2AIP	296-7372-5-ND	Dual Precision Op Amp	8-Dip	.84	.70	.56
TLC27L2BCD	296-7373-5-ND	Dual Precision Op Amp	8-SOIC	.84	.70	.56
TLC27L2BCP	296-7374-5-ND	Dual Precision Op Amp	8-Dip	.84	.70	.56
TLC27L2BID	296-7375-5-ND	Dual Precision Op Amp	8-SOIC	.87	.73	.58
TLC27L2BIP	296-7376-5-ND	Dual Precision Op Amp	8-Dip	.87	.73	.58
TLC27L2CD	296-1316-5-ND	Dual Precision Op Amp	8-SOIC	.75	.63	.50
TLC27L2CDR	296-1316-1-ND	Dual Precision Op Amp	8-SOIC	.75	.63	.50
TLC27L2CDR	296-1316-2-ND	Dual Precision Op Amp	8-SOIC	812.50/2,500		
TLC27L2CP	296-7377-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	.75	.63	.50
TLC27L2CPSR	296-7378-1-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOP	.75	.63	.50
TLC27L2CPSR	296-7378-2-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOP	666.00/2,000		
TLC27L2ID	296-1317-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	.81	.68	.54
TLC27L2IDR	296-1317-1-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	.81	.68	.54
TLC27L2IDR	296-1317-2-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	877.50/2,500		
TLC27L2IP	296-7379-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	.81	.68	.54
TLC27L2IPW	296-7380-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-TSSOP	.81	.68	.54
TLC27L2MD	296-7381-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	.96	.80	.64
TLC27L4ACD	296-1831-5-ND	Quad Precision Op Amp	14-SOIC	.96	.80	.64
TLC27L4ACN	296-7382-5-ND	Quad Precision Op Amp	14-Dip	.96	.80	.64
TLC27L4AID	296-7383-5-ND	Quad Precision Op Amp	14-SOIC	1.02	.85	.68
TLC27L4AIN	296-7384-5-ND	Quad Precision Op Amp	14-Dip	1.02	.85	.68
TLC27L4BCD	296-7385-5-ND	Quad Precision Op Amp	14-SOIC	1.02	.85	.68
TLC27L4BCN	296-7386-5-ND	Quad Precision Op Amp	14-Dip	1.02	.85	.68
TLC27L4BID	296-7387-5-ND	Quad Precision Op Amp	14-SOIC	1.02	.85	.68
TLC27L4BIN	296-7388-5-ND	Quad Precision Op Amp	14-Dip	1.02	.85	.68
TLC27L4CD	296-1318-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.90	.75	.60
TLC27L4CDR	296-1318-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.90	.75	.60
TLC27L4CN	296-7389-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	.90	.75	.60
TLC27L4CPWR	296-7390-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-TSSOP	.90	.75	.60
TLC27L4CPWR	296-7390-2-ND	Quad Precision Single-Supply Micropower Op Amp	14-TSSOP	798.00/2,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC27L4ID	296-1319-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.96	.80	.64
TLC27L4IDR	296-1319-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	.96	.80	.64
TLC27L4IDR	296-1319-2-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	1040.00/2,500		
TLC27L4IN	296-7391-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	.96	.80	.64
TLC27L4IPW	296-7392-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-TSSOP	.96	.80	.64
TLC27L7CD	296-1832-5-ND	Dual Precision Op Amp	8-SOIC	1.78	1.42	1.07
TLC27L7CP	296-7393-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	1.78	1.42	1.07
TLC27L7ID	296-1320-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-SOIC	1.90	1.52	1.14
TLC27L7IDR	296-1320-1-ND	Dual Precision Op Amp	8-SOIC	1.90	1.52	1.14
TLC27L7IDR	296-1320-2-ND	Dual Precision Op Amp	8-SOIC	2432.50/2,500		
TLC27L7IP	296-7394-5-ND	Dual Precision Single-Supply Micropower Op Amp	8-Dip	1.90	1.52	1.14
TLC27L9CD	296-7395-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOIC	2.25	1.80	1.40
TLC27L9CN	296-7396-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	2.25	1.80	1.40
TLC27L9CNSR	296-7397-1-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOP	2.50	2.00	1.50
TLC27L9CNSR	296-7397-2-ND	Quad Precision Single-Supply Micropower Op Amp	14-SOP	2550.00/2,000		
TLC27L9ID	296-1834-5-ND	Quad Precision Op Amp	14-SOIC	2.36	1.89	1.47
TLC27L9IN	296-7398-5-ND	Quad Precision Single-Supply Micropower Op Amp	14-Dip	2.36	1.89	1.47
TLC27M2ACD	296-7399-5-ND	Dual Precision Op Amp	8-SOIC	.81	.68	.54
TLC27M2ACP	296-7400-5-ND	Dual Precision Op Amp	8-Dip	.81	.68	.54
TLC27M2AID	296-7401-5-ND	Dual Precision Op Amp	8-SOIC	.84	.70	.56
TLC27M2AIP	296-7402-5-ND	Dual Precision Op Amp	8-Dip	.84	.70	.56
TLC27M2BCD	296-7403-5-ND	Dual Precision Op Amp	8-SOIC	.84	.70	.56
TLC27M2BCP	296-7404-5-ND	Dual Precision Op Amp	8-Dip	.84	.70	.56
TLC27M2BID	296-7405-5-ND	Dual Precision Op Amp	8-SOIC	.87	.73	.58
TLC27M2BIP	296-7406-5-ND	Dual Precision Op Amp	8-Dip	.87	.73	.58
TLC27M2CD	296-1321-5-ND	Dual Precision Op Amp	8-SOIC	.75	.63	.50
TLC27M2CDR	296-1321-1-ND	Dual Precision Op Amp	8-SOIC	.75	.63	.50
TLC27M2CDR	296-1321-2-ND	Dual Precision Op Amp	8-SOIC	812.50/2,500		
TLC27M2CP	296-1836-5-ND	Dual Precision Op Amp	8-Dip	.75	.63	.50
TLC27M2CPWR	296-7407-1-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	.75	.63	.50
TLC27M2CPWR	296-7407-2-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	666.00/2,000		
TLC27M2ID	296-1322-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	.81	.68	.54
TLC27M2IDR	296-1322-1-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	.81	.68	.54
TLC27M2IDR	296-1322-2-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	877.50/2,500		
TLC27M2IP	296-7408-5-ND	Dual LP Prec. Single-Supply Op Amp	8-Dip	.81	.68	.54
TLC27M2IPW	296-7409-5-ND	Dual LP Prec. Single-Supply Op Amp	8-TSSOP	.81	.68	.54
TLC27M2MD	296-7410-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	.96	.80	.64
TLC27M4ACD	296-7411-5-ND	Quad Precision Op Amp	14-SOIC	.96	.80	.64
TLC27M4ACN	296-7412-5-ND	Quad Precision Op Amp	14-Dip	.96	.80	.64
TLC27M4AID	296-7413-5-ND	Quad Precision Op Amp	14-SOIC	1.02	.85	.68
TLC27M4AIN	296-7414-5-ND	Quad Precision Op Amp	14-Dip	1.02	.85	.68
TLC27M4BCD	296-7415-5-ND	Quad Precision Op Amp	14-SOIC	1.17	.98	.78
TLC27M4BCN	296-7416-5-ND	Quad Precision Op Amp	14-Dip	1.17	.98	.78
TLC27M4BID	296-7417-5-ND	Quad Precision Op Amp	14-SOIC	1.23	1.03	.82
TLC27M4BIN	296-7418-5-ND	Quad Precision Op Amp	14-Dip	1.23	1.03	.82
TLC27M4CD	296-1837-5-ND	Quad Precision Op Amp	14-SOIC	.90	.75	.60
TLC27M4CN	296-7419-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	.90	.75	.60
TLC27M4CPWR	296-7420-1-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	.90	.75	.60
TLC27M4CPWR	296-7420-2-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	798.00/2,000		
TLC27M4ID	296-7421-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOIC	.96	.80	.64
TLC27M4IN	296-7422-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	.96	.80	.64
TLC27M4IPWR	296-7423-1-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	.96	.80	.64
TLC27M4IPWR	296-7423-2-ND	Quad LP Prec. Single-Supply Op Amp	14-TSSOP	852.00/2,000		
TLC27M7CDR	296-1323-1-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	1.78	1.42	1.07
TLC27M7CDR	296-1323-2-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	2272.50/2,500		
TLC27M7CP	296-1838-5-ND	Dual Precision Op Amp	8-Dip	1.78	1.42	1.07
TLC27M7ID	296-7424-5-ND	Dual LP Prec. Single-Supply Op Amp	8-SOIC	1.90	1.52	1.14
TLC27M7IP	296-7425-5-ND	Dual LP Prec. Single-Supply Op Amp	8-Dip	1.90	1.52	1.14
TLC27M9CD	296-7426-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOIC	2.25	1.80	1.40
TLC27M9CN	296-7427-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	2.25	1.80	1.40
TLC27M9ID	296-7428-5-ND	Quad LP Prec. Single-Supply Op Amp	14-SOIC	2.36	1.89	1.47
TLC27M9IN	296-7429-5-ND	Quad LP Prec. Single-Supply Op Amp	14-Dip	2.36	1.89	1.47
TLC070AIP	296-7216-5-ND	High-Output WB Op Amp	8-Dip	1.30	1.04	.78
TLC070CD	296-2413-5-ND	High-Output WB Op Amp	8-SOIC	1.44	1.20	.96
TLC070CDR	296-2413-1-ND	High-Output WB Op Amp	8-SOIC	1.44	1.20	.96
TLC070CDR	296-2413-2-ND	High-Output WB Op Amp	8-SOIC	1560.00/2,500		
TLC070CDGNR	296-7217-1-ND	High-Output WB Op Amp	8-MSOP	1.44	1.20	.96
TLC070CDGNR	296-7217-2-ND	High-Output WB Op Amp	8-MSOP	1560.00/2,500		
TLC070IDGNR	296-7218-1-ND	High-Output WB Op Amp	8-MSOP	1.56	1.30	1.04
TLC070IDGNR	296-7218-2-ND	High-Output WB Op Amp	8-MSOP	1665.00/2,500		
TLC070IDR	296-7219-1-ND	High-Output WB Op Amp	8-SOIC	1.56	1.30	1.04
TLC070IDR	296-7219-2-ND	High-Output WB Op Amp	8-SOIC	1665.00/2,500		
TLC070IP	296-7220-5-ND	High-Output WB Op Amp	8-Dip	1.30	1.04	.78
TLC071AIP	296-7221-5-ND	High-Output WB Op Amp	8-Dip	1.44	1.20	.96
TLC071CD	296-2414-5-ND	Single-Supply Op Amp	8-SOIC	1.29	1.08	.86
TLC071CDGNR	296-7222-1-ND	High-Output WB Op Amp	8-MSOP	1.44	1.20	.96
TLC071CDGNR	296-7222-2-ND	High-Output WB Op Amp	8-MSOP	1560.00/2,500		
TLC071IDGNR	296-7223-1-ND	High-Output WB Op Amp	8-MSOP	1.56	1.30	1.04
TLC071IDGNR	296-7223-2-ND	High-Output WB Op Amp	8-MSOP	1665.00/2,500		
TLC071IDR	296-7224-1-ND	High-Output WB Op Amp	8-SOIC	1.35	1.13	.90
TLC071IDR	296-7224-2-ND	High-Output WB Op Amp	8-SOIC	1462.50/2,500		
TLC071IP	296-7225-5-ND	High-Output WB Op Amp	8-Dip	1.35	1.13	.90
TLC072AID	296-7226-5-ND	Dual High-Output WB Op Amp	8-SOIC	1.78	1.42	1.07
TLC072AIP	296-7227-5-ND	Dual High-Output WB Op Amp	8-Dip	1.78	1.42	1.07
TLC072CD	296-2415-5-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC072CDR	296-2415-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC072CDR	296-2415-2-ND	Dual High-Output WB Op Amp	8-SOIC	2145.00/2,500		
TLC072CDGNR	296-7228-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.68	1.34	1.01
TLC072CDGNR	296-7228-2-ND	Dual High-Output WB Op Amp	8-MSOP	2145.00/2,500		
TLC072CP	296-7229-5-ND	Dual High-Output WB Op Amp	8-Dip	1.68	1.34	1.01
TLC072IDGNR	296-7230-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.68	1.34	1.01
TLC072IDGNR	296-7230-2-ND	Dual High-Output WB Op Amp	8-MSOP	2145.00/2,500		
TLC072IDR	296-7231-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC072IDR	296-7231-2-ND	Dual High-Output WB Op Amp	8-SOIC	2145.00/2,500		
TLC072IP	296-7232-5-ND	Dual High-Output WB Op Amp	8-Dip	1.68	1.34	1.01
TLC073AID	296-7233-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.90	1.52	1.14
TLC073CD	296-2416-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.78	1.42	1.07
TLC073CDR	296-2416-1-ND	Dual High-Output WB Op Amp	14-SOIC	1.78	1.42	1.07
TLC073CDR	296-2416-2-ND	Dual High-Output WB Op Amp	14-SOIC	2272.50/2,500		
TLC073CDGQ	296-7234-5-ND	Dual High-Output WB Op Amp	10-MSOP	1.78	1.42	1.07
TLC073CN	296-7235-5-ND	Dual High-Output WB Op Amp	14-Dip	1.78	1.42	1.07
TLC073IDGQR	296-7237-1-ND	Dual High-Output WB Op Amp	10-MSOP	1.90	1.52	1.14
TLC073IDGQR	296-7237-2-ND	Dual High-Output WB Op Amp	10-MSOP	2432.50/2,500		
TLC073IN	296-7238-5-ND	Dual High-Output WB Op Amp	14-Dip	1.90	1.52	1.14
TLC074AID	296-7239-5-ND	Quad High-Output WB Op Amp	14-SOIC	2.25	1.80	1.40
TLC074AIN	296-7240-5-ND	Quad High-Output WB Op Amp	14-Dip	2.25	1.80	1.40
TLC074AIPWP	296-7241-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.36	1.89	1.47
TLC074CD	296-2417-5-ND	Quad High-Output Op Amp	14-SOIC	2.25	1.80	1.35
TLC074CDR	296-2417-1-ND	Quad High-Output WB Op Amp	14-SOIC	2.25	1.80	1.35
TLC074CDR	296-2417-2-ND	Quad High-Output WB Op Amp	14-SOIC	2880.00/2,500		
TLC074CN	296-7242-5-ND	Quad High-Output WB Op Amp	14-Dip	2.25	1.80	1.35
TLC074CPWPR	296-7243-1-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.38	1.90	1.43
TLC074CPWPR	296-7243-2-ND	Quad High-Output WB Op Amp	20-HTSSOP	2470.00/2,000		
TLC074IDR	296-7244-1-ND	Quad High-Output WB Op Amp	14-SOIC	2.38	1.90	1.43
TLC074IDR	296-7244-2-ND	Quad High-Output WB Op Amp	14-SOIC	3040.00/2,500		
TLC074IN	296-7245-5-ND	Quad High-Output WB Op Amp	14-Dip	2.38	1.90	1.43
TLC074IPWP	296-7246-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.25	1.80	1.40
TLC075AID	296-7247-5-ND	Quad High-Output WB Op Amp	16-SOIC	2.45	1.97	1.53
TLC075AIN	296-7248-5-ND	Quad High-Output WB Op Amp	16-Dip	2.45	1.97	1.53
TLC075AIPWP	296-7249-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.57	2.06	1.60
TLC075CD	296-2418-5-ND	Quad High-Output WB Op Amp	16-SOIC	2.25	1.80	1.40
TLC075CDR	296-2418-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.50	2.00	1.50
TLC075CDR	296-2418-2-ND	Quad High-Output WB Op Amp	16-SOIC	3150.00/2,500		
TLC075CN	296-7250-5-ND	Quad High-Output WB Op Amp	16-Dip	2.25	1.80	1.40
TLC075CPWP	296-7251-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.36	1.89	1.47
TLC075IDR	296-7252-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.63	2.10	1.58
TLC075IDR	296-7252-2-ND	Quad High-Output WB Op Amp	16-SOIC	3307.50/2,500		
TLC075IN	296-7253-5-ND	Quad High-Output WB Op Amp	16-Dip	2.36	1.89	1.47
TLC075IPWP	296-7254-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.45	1.97	1.53
TLC080AIDR	296-7255-1-ND	High-Output WB Op Amp	8-SOIC	1.56	1.30	1.04
TLC080AIDR	296-7255-2-ND	High-Output WB Op Amp	8-SOIC	1665.00/2,500		
TLC080AIP	296-7256-5-ND	High-Output WB Op Amp	8-Dip	1.30	1.04	.78
TLC080CD	296-2419-5-ND	High-Output WB Op Amp	8-SOIC	1.44	1.20	.96
TLC080CDR	296-2419-1-ND	High-Output WB Op Amp	8-SOIC	1.44	1.20	.96
TLC080CDR	296-2419-2-ND	High-Output WB Op Amp	8-SOIC	1560.00/2,500		
TLC080CDGNR	296-7257-1-ND	High-Output WB Op Amp	8-MSOP	1.44	1.20	.96
TLC080CDGNR	296-7257-2-ND	High-Output WB Op Amp	8-MSOP	1560.00/2,500		
TLC080IDGNR	296-7258-1-ND	High-Output WB Op Amp	8-MSOP	1.56	1.30	1.04
TLC080IDGNR	296-7258-2-ND	High-Output WB Op Amp	8-MSOP	1665.00/2,500		
TLC080IDR	296-7259-1-ND	High-Output WB Op Amp	8-SOIC	1.56	1.30	1.04
TLC080IDR	296-7259-2-ND	High-Output WB Op Amp	8-SOIC	1665.00/2,500		
TLC080IP	296-7260-5-ND	High-Output WB Op Amp	8-Dip	1.30	1.04	.78
TLC081AIP	296-7261-5-ND	High-Output WB Op Amp	8-Dip	1.44	1.20	.96
TLC081CD	296-2420-5-ND	Single-Supply Op Amp	8-SOIC	1.29	1.08	.86
TLC081CDGN	296-7262-5-ND	High-Output WB Op Amp	8-MSOP	1.44	1.20	.96
TLC081CDGNR	296-7262-1-ND	High-Output WB Op Amp	8-MSOP	1.44	1.20	.96
TLC081CDGNR	296-7262-2-ND	High-Output WB Op Amp	8-MSOP	1560.00/2,500		
TLC081IDGNR	296-7263-1-ND	High-Output WB Op Amp	8-MSOP	1.56	1.30	1.04
TLC081IDGNR	296-7263-2-ND	High-Output WB Op Amp	8-MSOP	1665.00/2,500		
TLC081IDR	296-7264-1-ND	High-Output WB Op Amp	8-SOIC	1.35	1.13	.90
TLC081IDR	296-7264-2-ND	High-Output WB Op Amp	8-SOIC	1462.50/2,500		
TLC081IP	296-7265-5-ND	High-Output WB Op Amp	8-Dip	1.35	1.13	.90
TLC082AIDR	296-7266-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.78	1.42	1.07
TLC082AIDR	296-7266-2-ND	Dual High-Output WB Op Amp	8-SOIC	2272.50/2,500		
TLC082AIP	296-7267-5-ND	Dual High-Output WB Op Amp	8-Dip	1.78	1.42	1.07
TLC082CD	296-2421-5-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC082CDR	296-2421-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC082CDR	296-2421-2-ND	Dual High-Output WB Op Amp	8-SOIC	2145.00/2,500		
TLC082CDGNR	296-7268-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.68	1.34	1.01
TLC082CDGNR	296-7268-2-ND	Dual High-Output WB Op Amp	8-MSOP	2145.00/2,500		
TLC082CP	296-7269-5-ND	Dual High-Output WB Op Amp	8-Dip	1.68	1.34	1.01
TLC082IDGNR	296-7270-1-ND	Dual High-Output WB Op Amp	8-MSOP	1.68	1.34	1.01
TLC082IDGNR	296-7270-2-ND	Dual High-Output WB Op Amp	8-MSOP	2145.00/2,500		
TLC082IDR	296-7271-1-ND	Dual High-Output WB Op Amp	8-SOIC	1.68	1.34	1.01
TLC082IDR	296-7271-2-ND	Dual High-Output WB Op Amp	8-SOIC	2145.00/2,500		
TLC082IP	296-7272-5-ND	Dual High-Output WB Op Amp	8-Dip	1.68	1.34	1.01
TLC083AID	296-7273-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.90	1.52	1.14
TLC083AIN	296-7274-5-ND	Dual High-Output WB Op Amp	14-Dip	1.90	1.52	1.14
TLC083CD	296-2422-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.78	1.42	1.07
TLC083CDR	296-2422-1-ND	Dual High-Output WB Op Amp	14-SOIC	1.78	1.42	1.07
TLC083CDR	296-2422-2-ND	Dual High-Output WB Op Amp	14-SOIC	2272.50/2,500		
TLC083CDGQR	296-7275-1-ND	Dual High-Output WB Op Amp	10-MSOP	1.78	1.42	1.07
TLC083CDGQR	296-7275-2-ND	Dual High-Output WB Op Amp	10-MSOP	2272.50/2,500		
TLC083CN	296-7276-5-ND	Dual High-Output WB Op Amp	14-Dip	1.78	1.42	1.07
TLC083ID	296-7277-5-ND	Dual High-Output WB Op Amp	14-SOIC	1.90	1.52	1.14
TLC083IDGQ	296-7278-5-ND	Dual High-Output WB Op Amp	10-MSOP	1.90	1.52	1.14
TLC083IN	296-7279-5-ND	Dual High-Output WB Op Amp	14-Dip	1.90	1.52	1.14
TLC084AID	296-7280-5-ND	Quad High-Output WB Op Amp	14-SOIC	2.25	1.80	1.40
TLC084AIN	296-7281-5-ND	Quad High-Output WB Op Amp	14-Dip	2.25	1.80	1.40
TLC084AIPWP	296-7282-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.36	1.89	1.47
TLC084CD	296-2423-5-ND	Quad High-Output WB Op Amp	14-SOIC	2.25	1.80	1.35
TLC084CDR	296-2423-1-ND	Quad High-Output WB Op Amp	14-SOIC	2.25	1.80	1.35
TLC084CDR	296-2423-2-ND	Quad High-Output WB Op Amp	14-SOIC	2880.00/2,500		
TLC084CN	296-7283-5-ND	Quad High-Output WB Op Amp	14-Dip	2.25	1.80	1.35
TLC084CPWP	296-7285-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.38	1.90	1.43
TLC084CPWPR	296-7285-1-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.38	1.90	1.43

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC084CPWPR	296-7285-2-ND	Quad High-Output WB Op Amp	20-HTSSOP	3040.00/2,500		
TLC084ID	296-7287-5-ND	Quad High-Output WB Op Amp	14-SOIC	2.38	1.90	1.43
TLC084IDR	296-7287-1-ND	Quad High-Output WB Op Amp	14-SOIC	2.38	1.90	1.43
TLC084IDR	296-7287-2-ND	Quad High-Output WB Op Amp	14-SOIC	3040.00/2,500		
TLC084IPWP	296-7288-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.25	1.80	1.40
TLC085AID	296-7289-5-ND	Quad High-Output WB Op Amp	16-SOIC	2.45	1.97	1.53
TLC085AIN	296-7290-5-ND	Quad High-Output WB Op Amp	16-Dip	2.45	1.97	1.53
TLC085AIPWP	296-7291-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.57	2.06	1.60
TLC085CD	296-2424-5-ND	Quad High-Output WB Op Amp	16-SOIC	2.25	1.80	1.40
TLC085CDR	296-2424-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.50	2.00	1.50
TLC085CDR	296-2424-2-ND	Quad High-Output WB Op Amp	16-SOIC	3150.00/2,500		
TLC085CN	296-7292-5-ND	Quad High-Output WB Op Amp	16-Dip	2.25	1.80	1.40
TLC085CPWP	296-7293-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.36	1.89	1.47
TLC085IDR	296-7294-1-ND	Quad High-Output WB Op Amp	16-SOIC	2.63	2.10	1.58
TLC085IDR	296-7294-2-ND	Quad High-Output WB Op Amp	16-SOIC	3307.50/2,500		
TLC085IPWP	296-7296-5-ND	Quad High-Output WB Op Amp	20-HTSSOP	2.45	1.97	1.53
TLC251ACD	296-10243-5-ND	Programmable Low Power Op Amp	8-SOIC	2.15	1.72	1.29
TLC251ACP	296-10244-5-ND	Programmable Low Power Op Amp	8-Dip	2.15	1.72	1.29
TLC251BCP	296-10245-5-ND	Programmable Low Power Op Amp	8-Dip	2.15	1.72	1.29
TLC251CD	296-10246-5-ND	Programmable Low Power Op Amp	8-SOIC	2.03	1.62	1.22
TLC251CP	296-10247-5-ND	Programmable Low Power Op Amp	8-Dip	2.03	1.62	1.22
TLC252ACD	296-10248-5-ND	Dual Low Power Op Amp	8-SOIC	2.68	2.15	1.67
TLC252BCD	296-10249-5-ND	Dual Low Power Op Amp	8-SOIC	2.79	2.24	1.74
TLC252BCP	296-10250-5-ND	Dual Low Power Op Amp	8-Dip	2.79	2.24	1.74
TLC252CD	296-10251-5-ND	Dual Low Power Op Amp	8-SOIC	2.57	2.06	1.60
TLC252CP	296-10252-5-ND	Dual Low Power Op Amp	8-Dip	2.57	2.06	1.60
TLC252CPWR	296-10253-1-ND	Dual Low Power Op Amp	8-TSSOP	2.85	2.28	1.71
TLC252CPWR	296-10253-2-ND	Dual Low Power Op Amp	8-TSSOP	2908.00/2,000		
TLC254ACD	296-2902-5-ND	LinCMOS Quad Op Amp	14-SOIC	3.74	2.99	2.33
TLC254ACN	296-2903-5-ND	LinCMOS Quad Op Amp	14-Dip	3.74	2.99	2.33
TLC254BCD	296-2904-5-ND	LinCMOS Quad Op Amp	14-SOIC	3.96	3.17	2.47
TLC254BCN	296-2905-5-ND	LinCMOS Quad Op Amp	14-Dip	3.96	3.17	2.47
TLC254CD	296-2906-5-ND	LinCMOS Quad Op Amp	14-SOIC	3.53	2.83	2.20
TLC254CN	296-2907-5-ND	LinCMOS Quad Op Amp	14-Dip	3.53	2.83	2.20
TLC254ID	296-2908-5-ND	LinCMOS Quad Op Amp	14-SOIC	3.74	2.99	2.33
TLC271ACD	296-7338-5-ND	LP Programmable Op Amp	8-SOIC	.96	.72	.54
TLC271ACP	296-7339-5-ND	LP Programmable Op Amp	8-Dip	.96	.72	.54
TLC271AID	296-7340-5-ND	LP Programmable Op Amp	8-SOIC	.75	.63	.50
TLC271AIP	296-7341-5-ND	LP Programmable Op Amp	8-Dip	.75	.63	.50
TLC271BCD	296-7342-5-ND	LP Programmable Op Amp	8-SOIC	.75	.63	.50
TLC271BID	296-7344-5-ND	LP Programmable Op Amp	8-SOIC	.78	.65	.52
TLC271BIP	296-7345-5-ND	LP Programmable Op Amp	8-Dip	.78	.65	.52
TLC271CD	296-1308-5-ND	LP Programmable Op Amp	8-SOIC	.92	.69	.52
TLC271CDR	296-1308-1-ND	LP Programmable Op Amp	8-SOIC	.92	.69	.52
TLC271CDR	296-1308-2-ND	LP Programmable Op Amp	8-SOIC	747.50/2,500		
TLC271BCP	296-7343-5-ND	LP Programmable Op Amp	8-Dip	.75	.63	.50
TLC271CP	296-1820-5-ND	LP Programmable Op Amp	8-Dip	.92	.69	.52
TLC271ID	296-1821-5-ND	LP Programmable Op Amp	8-SOIC	.96	.72	.54
TLC271IDR	296-1821-1-ND	LP Programmable Op Amp	8-SOIC	.72	.60	.48
TLC271IDR	296-1821-2-ND	LP Programmable Op Amp	8-SOIC	780.00/2,500		
TLC271IP	296-1822-5-ND	LP Programmable Op Amp	8-Dip	.96	.72	.54
TLC272ACD	296-1309-5-ND	Dual Precision Op Amp	8-SOIC	.92	.69	.52
TLC272ACDR	296-1309-1-ND	Dual Precision Op Amp	8-SOIC	.92	.69	.52
TLC272ACDR	296-1309-2-ND	Dual Precision Op Amp	8-SOIC	747.50/2,500		
TLC272ACP	296-7346-5-ND	Dual Precision Op Amp	8-Dip	.92	.69	.52
TLC272AID	296-7347-5-ND	Dual Precision Op Amp	8-SOIC	.96	.72	.54
TLC272AIP	296-7348-5-ND	Dual Precision Op Amp	8-Dip	.96	.72	.54
TLC272BCD	296-7349-5-ND	Dual Precision Op Amp	8-SOIC	.96	.72	.54
TLC272BCP	296-7350-5-ND	Dual Precision Op Amp	8-Dip	.96	.72	.54
TLC272BID	296-7351-5-ND	Dual Precision Op Amp	8-SOIC	.75	.63	.50
TLC272BIP	296-7352-5-ND	Dual Precision Op Amp	8-Dip	.75	.63	.50
TLC272CD	296-1310-5-ND	Dual Precision Op Amp	8-SOIC	.88	.66	.50
TLC272CDR	296-1310-1-ND	Dual Precision Op Amp	8-SOIC	.92	.69	.52
TLC272CDR	296-1310-2-ND	Dual Precision Op Amp	8-SOIC	715.00/2,500		
TLC272CP	296-1824-5-ND	Dual Precision Op Amp	8-Dip	.88	.66	.50
TLC272CPSR	296-7353-1-ND	Dual Single-Supply Op Amp	8-SOP	.88	.66	.50
TLC272CPSR	296-7353-2-ND	Dual Single-Supply Op Amp	8-SOP	586.00/2,000		
TLC272CPW	296-7354-5-ND	Dual Single-Supply Op Amp	8-TSSOP	.88	.66	.50
TLC272CPWR	296-7354-1-ND	Dual Single-Supply Op Amp	8-TSSOP	.88	.66	.50
TLC272CPWR	296-7354-2-ND	Dual Single-Supply Op Amp	8-TSSOP	586.00/2,000		
TLC272ID	296-1311-5-ND	Dual Precision Single-Supply Op Amp	8-SOIC	.92	.69	.52
TLC272IDR	296-1311-1-ND	Dual Precision Single-Supply Op Amp	8-SOIC	.92	.69	.52
TLC272IDR	296-1311-2-ND	Dual Precision Single-Supply Op Amp	8-SOIC	747.50/2,500		
TLC272IP	296-7355-5-ND	Dual Single-Supply Op Amp	8-Dip	.92	.69	.52
TLC274ACD	296-1825-5-ND	Quad Precision Op Amp	14-SOIC	.87	.73	.58
TLC274ACN	296-7356-5-ND	Quad Precision Op Amp	14-Dip	.87	.73	.58
TLC274AID	296-7357-5-ND	Quad Precision Op Amp	14-SOIC	.87	.73	.58
TLC274AIN	296-7358-5-ND	Quad Precision Op Amp	14-Dip	.87	.73	.58
TLC274BCD	296-7359-5-ND	Quad Precision Op Amp	14-SOIC	.87	.73	.58
TLC274BCN	296-7360-5-ND	Quad Precision Op Amp	14-Dip	.87	.73	.58
TLC274BID	296-1312-5-ND	Quad Precision Op Amp	14-SOIC	.93	.78	.62
TLC274BIDR	296-1312-1-ND	Quad Precision Op Amp	14-SOIC	.93	.78	.62
TLC274BIDR	296-1312-2-ND	Quad Precision Op Amp	14-SOIC	1007.50/2,500		
TLC274BIN	296-7361-5-ND	Quad Precision Op Amp	14-Dip	.93	.78	.62
TLC274CD	296-1313-5-ND	Quad Single-Supply Op Amp	14-SOIC	.81	.68	.54
TLC274CDR	296-1313-1-ND	Quad Precision Op Amp	14-SOIC	.81	.68	.54
TLC274CDR	296-1313-2-ND	Quad Precision Op Amp	14-SOIC	877.50/2,500		
TLC274CN	296-1826-5-ND	Quad Precision Op Amp	14-Dip	.81	.68	.54
TLC274ID	296-1314-5-ND	Quad Precision Op Amp	14-SOIC	.87	.73	.58
TLC274IDR	296-1314-1-ND	Quad Precision Op Amp	14-SOIC	.87	.73	.58
TLC274IDR	296-1314-2-ND	Quad Precision Op Amp	14-SOIC	942.50/2,500		
TLC274IN	296-7362-5-ND	Quad Single-Supply Op Amp	14-Dip	.87	.73	.58
TLC274IPW	296-14197-5-ND	Quad Single-Supply Op Amp	14-TSSOP	.87	.73	.58
TLC274MD	296-7363-5-ND	Quad Single-Supply Op Amp	14-SOIC	1.02	.85	.68
TLC277CD	296-7364-5-ND	Dual Precision Single-Supply Op Amp	8-SOIC	1.78	1.42	1.07
TLC277CP	296-1828-5-ND	Dual Precision Op Amp	8-Dip	1.78	1.42	1.07
TLC277ID	296-1829-5-ND	Dual Precision Op Amp	8-SOIC	1.90	1.52	1.14
TLC277IP	296-7365-5-ND	Dual Precision Single-Supply Op Amp	8-Dip	1.90	1.52	1.14
TLC279CD	296-7366-5-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	2.25	1.80	1.40
TLC279CN	296-7367-5-ND	Quad Prec. Single-Supply Op Amp	14-Dip	2.25	1.80	1.40
TLC279ID	296-1315-5-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	2.36	1.89	1.47
TLC279IDR	296-1315-1-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	2.63	2.10	1.58
TLC279IDR	296-1315-2-ND	Quad Prec. Single-Supply Op Amp	14-SOIC	3307.50/2,500		
TLC279IN	296-7368-5-ND	Quad Prec. Single-Supply Op Amp	14-Dip	2.36	1.89	1.47
TLC393QDR	296-15027-1-ND	Dual Micropower LinCMOS™ Voltage Comparator	8-SOIC	1.08	.90	.72
TLC393QDR	296-15027-2-ND	Dual Micropower LinCMOS™ Voltage Comparator	8-SOIC	1170.00/2,500		
TLC555CPSR	296-15028-1-ND	LinCMOS™ Timer	8-SOP	.88	.66	.50
TLC555CPSR	296-15028-2-ND	LinCMOS™ Timer	8-SOP	586.00/2,000		
TLC1078CD	296-10231-5-ND	Dual Micropower Low Voltage Op Amp	8-SOIC	4.93	3.95	3.07
TLC1078CP	296-10232-5-ND	Dual Micropower Low Voltage Op Amp	8-Dip	4.93	3.95	3.07
TLC1078ID	296-10233-5-ND	Dual Micropower Low Voltage Op Amp	8-SOIC	5.13	4.11	3.20
TLC1078IP	296-10234-5-ND	Dual Micropower Low Voltage Op Amp	8-Dip	5.13	4.11	3.20
TLC1079CD	296-10235-5-ND	Quad Micropower Low Volt. Op Amp	14-SOIC	6.08	4.87	4.11
TLC1079CN	296-10236-5-ND	Quad Micropower Low Volt. Op Amp	14-Dip	6.08	4.87	4.11
TLC1079ID	296-10237-5-ND	Quad Micropower Low Volt. Op Amp	14-SOIC	6.36	5.09	4.30
TLC1079IN	296-10238-5-ND	Quad Micropower Low Volt. Op Amp	14-Dip	6.36	5.09	4.30
TLC2201ACD	296-7050-5-ND	Low Noise Precision Op Amp	8-SOIC	3.74	2.99	2.33
TLC2201AID	296-7052-5-ND	Low Noise Precision Op Amp	8-SOIC	3.85	3.08	2.40
TLC2201AMD	296-7054-5-ND	Low Noise Precision Op Amp	8-SOIC	4.70	3.77	2.93
TLC2201CD	296-2425-5-ND	Low Noise Precision R/R Op Amp	8-SOIC	3.53	2.83	2.20
TLC2201CP	296-10241-5-ND	Low Noise Precision R/R Op Amp	8-Dip	3.53	2.83	2.20
TLC2201IDR	296-7061-1-ND	Low Noise Precision R/R Op Amp	8-SOIC	3.74	2.99	2.33
TLC2201IDR	296-7061-2-ND	Low Noise Precision R/R Op Amp	8-SOIC	5230.00/2,500		
TLC2201ID	296-10242-5-ND	Low Noise Precision R/R Op Amp	8-SOIC	3.74	2.99	2.33
TLC2201IP	296-7062-5-ND	Low Noise Precision R/R Op Amp	8-Dip	3.74	2.99	2.33
TLC2202ACD	296-7063-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	5.24	4.20	3.27
TLC2202AID	296-7065-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	5.45	4.36	3.39
TLC2202CD	296-1807-5-ND	Dual Low Noise Precision Op Amp	14-SOIC	5.02	4.02	3.13
TLC2202IP	296-7073-5-ND	Dual Low Noise Precision R/R Op Amp	8-Dip	5.24	4.20	3.27
TLC2252AID	296-7074-5-ND	Dual R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2252AIP	296-7075-5-ND	Dual R/R Op Amp	8-Dip	1.55	1.24	.93
TLC2252AIPWR	296-7076-1-ND	Dual R/R Op Amp	8-TSSOP	1.55	1.24	.93
TLC2252AIPWR	296-7076-2-ND	Dual R/R Op Amp	8-TSSOP	1612.00/2,000		
TLC2252AQD	296-7077-5-ND	Dual R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLC2252AQDREP	296-18139-1-ND	Dual R/R Op Amp	8-SOIC	3.92	3.14	2.44
TLC2252AQDREP	296-18139-2-ND	Dual R/R Op Amp	8-SOIC	5480.00/2,500		
TLC2252CD	296-7078-5-ND	Dual R/R Micropower Op Amp	8-SOIC	1.43	1.14	.86
TLC2252CP	296-7079-5-ND	Dual R/R Micropower Op Amp	8-Dip	1.43	1.14	.86
TLC2252CPWR	296-12745-1-ND	Dual R/R Micropower Op Amp	8-TSSOP	1.71	1.43	1.14
TLC2252CPWR	296-12745-2-ND	Dual R/R Micropower Op Amp	8-TSSOP	1482.00/2,000		
TLC2252ID	296-7080-5-ND	Dual R/R Micropower Op Amp	8-SOIC	1.55	1.24	.93
TLC2252IP	296-7081-5-ND	Dual R/R Micropower Op Amp	8-Dip	1.55	1.24	.93
TLC2252QD	296-7082-5-ND	Dual R/R Micropower Op Amp	8-SOIC	1.55	1.24	.93
TLC2254AID	296-7083-5-ND	Quad R/R Op Amp	14-SOIC	1.90	1.52	1.14
TLC2254AIN	296-7084-5-ND	Quad R/R Op Amp	14-Dip	1.90	1.52	1.14
TLC2254AIPWR	296-7085-1-ND	Quad R/R Op Amp	14-TSSOP	1.90	1.52	1.14
TLC2254AIPWR	296-7085-2-ND	Quad R/R Op Amp	14-TSSOP	1976.00/2,000		
TLC2254AQD	296-7086-5-ND	Quad R/R Op Amp	14-SOIC	2.03	1.62	1.22
TLC2254AQDREP	296-18140-1-ND	Quad R/R Op Amp	14-SOIC	5.42	4.34	3.38
TLC2254AQDREP	296-18140-2-ND	Quad R/R Op Amp	14-SOIC	7592.50/2,500		
TLC2254CD	296-1300-5-ND	Quad R/R Micropower Op Amp	14-SOIC	1.78	1.42	1.07
TLC2254CDR	296-1300-1-ND	Quad R/R Micropower Op Amp	14-SOIC	1.78	1.42	1.07
TLC2254CDR	296-1300-2-ND	Quad R/R Micropower Op Amp	14-SOIC	2272.50/2,500		
TLC2254CN	296-7088-5-ND	Quad R/R Micropower Op Amp	14-Dip	1.78	1.42	1.07
TLC2254CPWR	296-7089-1-ND	Quad R/R Micropower Op Amp	14-TSSOP	1.78	1.42	1.07
TLC2254CPWR	296-7089-2-ND	Quad R/R Micropower Op Amp	14-TSSOP	1846.00/2,000		
TLC2254ID	296-1301-5-ND	Quad Low Power Op Amp	14-SOIC	1.78	1.42	1.07
TLC2254IDR	296-1301-1-ND	Quad Low Power Op Amp	14-SOIC	1.78	1.42	1.07
TLC2254IDR	296-1301-2-ND	Quad Low Power Op Amp	14-SOIC	2272.50/2,500		
TLC2254IN	296-7090-5-ND	Quad R/R Micropower Op Amp	14-Dip	1.78	1.42	1.07
TLC2254QD	296-7091-5-ND	Quad R/R Micropower Op Amp	14-SOIC	1.90	1.52	1.14
TLC2262AID	296-7092-5-ND	Dual R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2262AIP	296-7093-5-ND	Dual R/R Op Amp	8-Dip	1.55	1.24	.93
TLC2262AQD	296-7094-5-ND	Dual R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLC2262CD	296-1302-5-ND	Dual R/R Op Amp	8-SOIC	1.43	1.14	.86
TLC2262CDR	296-1302-1-ND	Dual R/R Op Amp	8-SOIC	1.71	1.43	1.14
TLC2262CDR	296-1302-2-ND	Dual R/R Op Amp	8-SOIC	1825.00/2,500		
TLC2262CP	296-7095-5-ND	Dual R/R Op Amp	8-Dip	1.43	1.14	.86
TLC2262CPWR	296-7096-1-ND	Dual R/R Op Amp	8-TSSOP	1.71	1.43	1.14
TLC2262CPWR	296-7096-2-ND	Dual R/R Op Amp	8-TSSOP	1482.00/2,000		
TLC2262ID	296-7097-5-ND	Dual R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2262IP	296-7098-5-ND	Dual R/R Op Amp	8-Dip	1.55	1.24	.93
TLC2262QD	296-7099-5-ND	Dual R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2264AID	296-7100-5-ND	Quad R/R Op Amp	14-SOIC	1.90	1.52	1.14
TLC2264AIN	296-7101-5-ND	Quad R/R Op Amp	14-Dip	1.90	1.52	1.14
TLC2264AIPWR	296-13504-1-ND	Quad R/R Op Amp	14-TSSOP	1.90	1.52	1.14
TLC2264AIPWR	296-13504-2-ND	Quad R/R Op Amp	14-TSSOP	1976.00/2,000		
TLC2264AQD	296-7102-5-ND	Quad R/R Op Amp	14-SOIC	2.03	1.62	1.22
TLC2264CD	296-7103-5-ND	Quad R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2264CN	296-7104-5-ND	Quad R/R Op Amp	14-Dip	1.78	1.42	1.07
TLC2264CPWR	296-7105-1-ND	Quad R/R Op Amp	14-TSSOP	1.78	1.42	1.07
TLC2264CPWR	296-7105-2-ND	Quad R/R Op Amp	14-TSSOP	1846.00/2,000		
TLC2264ID	296-7106-5-ND	Quad R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2264IN	296-7107-5-ND	Quad R/R Op Amp	14-Dip	1.78	1.42	1.07
TLC2264QD	296-7108-5-ND	Quad R/R Op Amp	14-SOIC	1.90	1.52	1.14
TLC2272ACD	296-1303-5-ND	Dual R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2272ACDR	296-1303-1-ND	Dual R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2272ACDR	296-1303-2-ND	Dual R/R Op Amp	8-SOIC	1985.00/2,500		
TLC2272ACP	296-7109-5-ND	Dual R/R Op Amp	8-Dip	1.55	1.24	.93
TLC2272ACPWR	296-7110-1-ND	Dual R/R Op Amp	8-TSSOP	1.55	1.24	.93
TLC2272ACPWR	296-7110-2-ND	Dual R/R Op Amp	8-TSSOP	1612.00/2,000		
TLC2272AID	296-1304-5-ND	Dual R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLC2272AIDR	296-1304-1-ND	Dual R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLC2272AIDR	296-1304-2-ND	Dual R/R Op Amp	8-SOIC	2145.00/2,500		
TLC2272AIP	296-7112-5-ND	Dual R/R Op Amp	8-Dip	1.68	1.34	1.01
TLC2272AMD	296-7113-5-ND	Dual R/R Op Amp	8-SOIC	1.90	1.52	1.14
TLC2272AQD	296-7114-5-ND	Dual R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLC2272AQDRQ1	296-15025-1-ND	Dual R/R Op Amp	8-SOIC	1.78	1.42	1.07
TLC2272AQDRQ1	296-15025-2-ND	Dual R/R Op Amp	8-SOIC	2272.50/2,500		

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLC2272AQPWRQ1	296-15839-5-ND	Dual R/R Op Amp	8-TSSOP	1.78	1.42	1.07
TLC2272CD	296-1305-5-ND	Dual R/R Op Amp	8-SOIC	1.43	1.14	.86
TLC2272CDR	296-1305-1-ND	Dual R/R Op Amp	8-SOIC	1.43	1.14	.86
TLC2272CDR	296-1305-2-ND	Dual R/R Op Amp	8-SOIC	1825.00/2,500		
TLC2272CP	296-1812-5-ND	Dual R/R Op Amp	8-Dip	1.43	1.14	.86
TLC2272CPWR	296-7115-1-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1.43	1.14	.86
TLC2272CPWR	296-7115-2-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1482.00/2,000		
TLC2272ID	296-7116-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.55	1.24	.93
TLC2272IP	296-7117-5-ND	Dual Low Noise R/R Op Amp	8-Dip	1.55	1.24	.93
TLC2272IPWR	296-7118-1-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1.55	1.24	.93
TLC2272IPWR	296-7118-2-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1612.00/2,000		
TLC2272MD	296-7119-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.90	1.52	1.14
TLC2272QD	296-7120-5-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLC2272QDRQ1	296-15026-1-ND	Dual Low Noise R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLC2272QDRQ1	296-15026-2-ND	Dual Low Noise R/R Op Amp	8-SOIC	2145.00/2,500		
TLC2272QPWRQ1	296-16951-1-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1.68	1.34	1.01
TLC2272QPWRQ1	296-16951-2-ND	Dual Low Noise R/R Op Amp	8-TSSOP	1742.00/2,000		
TLC2274ACD	296-1813-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2274ACDR	296-1813-1-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2274ACDR	296-1813-2-ND	Quad Low Noise R/R Op Amp	14-SOIC	2272.50/2,500		
TLC2274ACN	296-7121-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.78	1.42	1.07
TLC2274ACPWR	296-7122-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.78	1.42	1.07
TLC2274ACPWR	296-7122-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1846.00/2,000		
TLC2274AID	296-1814-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.90	1.52	1.14
TLC2274AIN	296-7123-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.90	1.52	1.14
TLC2274AIPW	296-7125-5-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.90	1.52	1.14
TLC2274AIPWR	296-7125-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.90	1.52	1.14
TLC2274AIPWR	296-7125-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1976.00/2,000		
TLC2274AMD	296-7126-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.25	1.80	1.35
TLC2274AQD	296-7127-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.03	1.62	1.22
TLC2274AQDRQ1	296-16952-1-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.03	1.62	1.22
TLC2274AQDRQ1	296-16952-2-ND	Quad Low Noise R/R Op Amp	14-SOIC	2592.50/2,500		
TLC2274AQPWRQ1	296-16953-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	2.03	1.62	1.22
TLC2274AQPWRQ1	296-16953-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	2106.00/2,000		
TLC2274CD	296-1306-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2274CDR	296-1306-1-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2274CDR	296-1306-2-ND	Quad Low Noise R/R Op Amp	14-SOIC	2272.50/2,500		
TLC2274CN	296-7129-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.78	1.42	1.07
TLC2274CPWR	296-7130-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.78	1.42	1.07
TLC2274CPWR	296-7130-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1846.00/2,000		
TLC2274ID	296-7131-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.78	1.42	1.07
TLC2274IN	296-7132-5-ND	Quad Low Noise R/R Op Amp	14-Dip	1.78	1.42	1.07
TLC2274IPWR	296-7133-1-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1.78	1.42	1.07
TLC2274IPWR	296-7133-2-ND	Quad Low Noise R/R Op Amp	14-TSSOP	1846.00/2,000		
TLC2274MD	296-7134-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	2.25	1.80	1.35
TLC2274QD	296-7135-5-ND	Quad Low Noise R/R Op Amp	14-SOIC	1.90	1.52	1.14
TLC2274QDRQ1	296-16954-1-ND	LinCMOS R/R Op Amp	14-SOIC	2.03	1.62	1.22
TLC2274QDRQ1	296-16954-2-ND	LinCMOS R/R Op Amp	14-SOIC	2592.50/2,500		
TLC2274QPWRQ1	296-16955-1-ND	LinCMOS R/R Op Amp	14-TSSOP	2.03	1.62	1.22
TLC2274QPWRQ1	296-16955-2-ND	LinCMOS R/R Op Amp	14-TSSOP	2106.00/2,000		
TLC2652AIP	296-1818-5-ND	Chopper Op Amp	8-Dip	5.13	4.11	3.20
TLC2652AC-8D	296-7316-5-ND	Adv Precision Chopper-Stabilized Op Amp	8-SOIC	4.93	3.95	3.07
TLC2652AC-14D	296-7315-5-ND	Adv Precision Chopper-Stabilized Op Amp	14-SOIC	4.93	3.95	3.07
TLC2652ACN	296-7317-5-ND	Adv Prec. Chopper-Stabilized Op Amp	14-Dip	4.93	3.95	3.07
TLC2652ACP	296-7318-5-ND	Adv Prec. Chopper-Stabilized Op Amp	8-Dip	4.93	3.95	3.07
TLC2652AI-8D	296-7319-5-ND	Adv Prec. Chopper-Stabilized Op Amp	8-SOIC	5.13	4.11	3.20
TLC2652AIN	296-7320-5-ND	Adv Prec. Chopper-Stabilized Op Amp	14-Dip	5.13	4.11	3.20
TLC2652C-8D	296-7321-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	4.70	3.77	2.93
TLC2652CN	296-7322-5-ND	Precision Chopper-Stabilized Op Amp	14-Dip	4.70	3.77	2.93
TLC2652CP	296-7323-5-ND	Precision Chopper-Stabilized Op Amp	8-Dip	4.70	3.77	2.93
TLC2652I-8D	296-7324-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	4.93	3.95	3.07
TLC2652M-8D	296-7325-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	5.32	4.26	3.60
TLC2652Q-8D	296-7326-5-ND	Precision Chopper-Stabilized Op Amp	8-SOIC	5.13	4.11	3.20
TLC2654AC-8D	296-7327-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	3.42	2.74	2.13
TLC2654ACP	296-7328-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-Dip	3.42	2.74	2.13
TLC2654AI-8D	296-7329-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	3.65	2.92	2.27
TLC2654AIP	296-7330-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-Dip	3.65	2.92	2.27
TLC2654AQ-8D	296-7331-5-ND	Adv. LN Chopper-Stabilized Op Amp	8-SOIC	3.74	2.99	2.33
TLC2654C-8D	296-7332-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	3.31	2.65	2.06
TLC2654CN	296-7333-5-ND	LN Chopper-Stabilized Op Amp	14-Dip	3.31	2.65	2.06
TLC2654CP	296-7334-5-ND	LN Chopper-Stabilized Op Amp	8-Dip	3.31	2.65	2.06
TLC2654I-8D	296-7335-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	3.42	2.74	2.13
TLC2654IP	296-7336-5-ND	LN Chopper-Stabilized Op Amp	8-Dip	3.42	2.74	2.13
TLC2654Q-8D	296-7337-5-ND	LN Chopper-Stabilized Op Amp	8-SOIC	3.65	2.92	2.27
TLC4501ACD	296-2426-5-ND	Precision, Rail-to-Rail Op Amp	8-SOIC	2.88	2.31	1.80
TLC4501AID	296-10322-5-ND	High Precision Rail-to-Rail Op Amp	8-SOIC	2.99	2.40	1.87
TLC4501CD	296-10323-5-ND	High Precision Rail-to-Rail Op Amp	8-SOIC	2.79	2.24	1.74
TLC4501IDR	296-10324-1-ND	High Precision Rail-to-Rail Op Amp	8-SOIC	2.88	2.31	1.80
TLC4501IDR	296-10324-2-ND	High Precision Rail-to-Rail Op Amp	8-SOIC	4032.50/2,500		
TLC4502ACD	296-10325-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.16	3.33	2.59
TLC4502AID	296-10326-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.28	3.42	2.66
TLC4502AMD	296-10327-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	5.24	4.20	3.27
TLC4502AQD	296-10328-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.50	3.60	2.80
TLC4502CD	296-10329-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	3.96	3.17	2.47
TLC4502ID	296-10330-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.16	3.33	2.59
TLC4502IDR	296-10330-1-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.16	3.33	2.59
TLC4502IDR	296-10330-2-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	5827.50/2,500		
TLC4502MD	296-10331-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	5.02	4.02	3.13
TLC4502QD	296-13358-5-ND	Self Calibrating Precision CMOS R/R, Output Op Amp	8-SOIC	4.28	3.42	2.66
TLE2021ACD	296-10353-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.38	1.10	.83
TLE2021ACP	296-10354-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.38	1.10	.83
TLE2021AID	296-10355-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.50	1.20	.90
TLE2021AIP	296-10356-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.50	1.20	.90
TLE2021AQDREP	296-19512-1-ND	HS, Low Power Precision Op Amp ***NEW!***	8-SOIC	3.38	2.70	2.10
TLE2021AQDREP	296-19512-2-ND	HS, Low Power Precision Op Amp ***NEW!***	8-SOIC	4725.00/2,500		
TLE2021CD	296-10357-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.35	1.13	.90
TLE2021CP	296-10358-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.35	1.13	.90
TLE2021ID	296-10359-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.25	1.00	.75
TLE2021IP	296-10360-5-ND	HS, Low Power Precision Op Amp	8-Dip	1.25	1.00	.75
TLE2021MD	296-10361-5-ND	HS, Low Power Precision Op Amp	8-SOIC	1.50	1.20	.90
TLE2022ACD	296-12304-5-ND	Dual HS, LP Precision Op Amp	8-SOIC	2.36	1.89	1.47
TLE2022ACP	296-10362-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	2.36	1.89	1.47
TLE2022AID	296-10363-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	2.59	2.07	1.61
TLE2022AIP	296-10364-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	2.59	2.07	1.61
TLE2022AMD	296-10365-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	2.93	2.34	1.82
TLE2022AQDREP	296-18144-1-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	5.76	4.61	3.89
TLE2022AQDREP	296-18144-2-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	8927.50/2,500		
TLE2022CD	296-1873-5-ND	Dual JFET-Input Op Amp	8-SOIC	1.88	1.50	1.13
TLE2022CP	296-10366-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	1.88	1.50	1.13
TLE2022ID	296-10367-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	2.00	1.60	1.20
TLE2022IP	296-10368-5-ND	Dual High Speed, LP Precision Op Amp	8-Dip	2.00	1.60	1.20
TLE2022MD	296-10369-5-ND	Dual High Speed, LP Precision Op Amp	8-SOIC	2.38	1.90	1.43
TLE2022QDREP	296-19513-1-ND	Dual High Speed, Low Power Precision Op Amp ***NEW!***	8-SOIC	4.50	3.60	2.80
TLE2022QDREP	296-19513-2-ND	Dual High Speed, Low Power Precision Op Amp ***NEW!***	8-SOIC	6300.00/2,500		
TLE2024ACDW	296-10370-5-ND	Quad High Speed, LP Op Amp	16-SOIC	3.71	2.97	2.31
TLE2024ACN	296-10371-5-ND	Quad High Speed, LP Op Amp	14-Dip	3.71	2.97	2.31
TLE2024AIDW	296-10372-5-ND	Quad High Speed, LP Op Amp	16-SOIC	4.05	3.24	2.52
TLE2024AIN	296-10373-5-ND	Quad High Speed, LP Op Amp	14-Dip	4.05	3.24	2.52
TLE2024AQDWREP	296-18145-1-ND	Quad High Speed, LP Op Amp	14-SOIC	9.00	7.20	6.08
TLE2024AQDWREP	296-18145-2-ND	Quad High Speed, LP Op Amp	14-SOIC	11250.00/2,000		
TLE2024BMDW	296-10374-5-ND	Quad High Speed, LP Op Amp	16-SOIC	4.61	3.69	2.87
TLE2024CDW	296-10375-5-ND	Quad High Speed, LP Op Amp	16-SOIC	3.26	2.61	2.03
TLE2024CN	296-10376-5-ND	Quad High Speed, LP Op Amp	14-Dip	3.26	2.61	2.03
TLE2024IDW	296-10377-5-ND	Quad High Speed, LP Op Amp	16-SOIC	3.49	2.79	2.17
TLE2024IN	296-10378-5-ND	Quad High Speed, LP Op Amp	14-Dip	3.49	2.79	2.17
TLE2024MDW	296-10379-5-ND	Quad High Speed, LP Op Amp	16-SOIC	4.16	3.33	2.59
TLE2027AMD	296-10380-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.81	2.25	1.75
TLE2027CD	296-10381-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.25	1.80	1.35
TLE2027CDR	296-10381-1-ND	Low Noise, High Speed Op Amp	8-SOIC	2.25	1.80	1.35
TLE2027CDR	296-10381-2-ND	Low Noise, High Speed Op Amp	8-SOIC	2880.00/2,500		
TLE2027ID	296-10383-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.38	1.90	1.43
TLE2027MD	296-10385-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.59	2.07	1.61
TLE2037CD	296-10386-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.25	1.80	1.35
TLE2037ID	296-10388-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.38	1.90	1.43
TLE2037MD	296-10389-5-ND	Low Noise, High Speed Op Amp	8-SOIC	2.59	2.07	1.61
TLE2061ACD	296-10390-5-ND	Low Power JFET Op Amp	8-SOIC	1.88	1.50	1.13
TLE2061AID	296-10391-5-ND	Low Power JFET Op Amp	8-SOIC	2.00	1.60	1.20
TLE2061AIP	296-10392-5-ND	Low Power JFET Op Amp	8-Dip	2.00	1.60	1.20
TLE2061CD	296-10393-5-ND	Low Power JFET Op Amp	8-SOIC	1.63	1.30	.98
TLE2061CP	296-10394-5-ND	Low Power JFET Op Amp	8-Dip	1.63	1.30	.98
TLE2061MD	296-10395-5-ND	Low Power JFET Op Amp	8-SOIC	2.13	1.70	1.28
TLE2062ACD	296-10396-5-ND	Dual Low Power JFET Op Amp	8-SOIC	3.26	2.61	2.03
TLE2062AID	296-10397-5-ND	Dual Low Power JFET Op Amp	8-SOIC	3.49	2.79	2.17
TLE2062AMD	296-10399-5-ND	Dual Low Power JFET Op Amp	8-SOIC	3.94	3.15	2.45
TLE2062CD	296-1341-5-ND	Dual Low Power JFET Op Amp	8-SOIC	2.25	1.80	1.40
TLE2062CDR	296-1341-1-ND	Dual JFET-Input Op Amp	8-SOIC	3.00	2.50	2.00
TLE2062CDR	296-1341-2-ND	Dual JFET-Input Op Amp	8-SOIC	3150.00/2,500		
TLE2062CP	296-10401-5-ND	Dual Low Power JFET Op Amp	8-Dip	2.25	1.80	1.40
TLE2062ID	296-10402-5-ND	Dual Low Power JFET Op Amp	8-SOIC	2.48	1.98	1.54
TLE2062IP	296-10403-5-ND	Dual Low Power JFET Op Amp	8-Dip	2.48	1.98	1.54
TLE2062MD	296-10404-5-ND	Dual Low Power JFET Op Amp	8-SOIC	2.93	2.34	1.82
TLE2064ACD	296-10405-5-ND	Quad Low Power JFET Op Amp	14-SOIC	5.29	4.23	3.29
TLE2064ACN	296-10406-5-ND	Quad Low Power JFET Op Amp	14-Dip	5.29	4.23	3.29
TLE2064AID	296-10407-5-ND	Quad Low Power JFET Op Amp	14-SOIC	5.00	4.00	3.38
TLE2064AMD	296-10408-5-ND	Quad Low Power JFET Op Amp	14-SOIC	5.70	4.56	3.85
TLE2064CD	296-10409-5-ND	Quad Low Power JFET Op Amp	14-SOIC	3.71	2.97	2.31
TLE2064CN	296-10410-5-ND	Quad Low Power JFET Op Amp	14-Dip	3.71	2.97	2.31
TLE2064ID	296-10411-5-ND	Quad Low Power JFET Op Amp	14-SOIC	4.05	3.24	2.52
TLE2064IN	296-10412-5-ND	Quad Low Power JFET Op Amp	14-Dip	4.05	3.24	2.52
TLE2064MD	296-10413-5-ND	Quad Low Power JFET Op Amp	14-SOIC	4.73	3.78	2.94
TLE2071ACD	296-10414-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.75	1.40	1.05
TLE2071ACP	296-10415-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.75	1.40	1.05
TLE2071AID	296-10416-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.88	1.50	1.13
TLE2071AIP	296-10417-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.88	1.50	1.13
TLE2071AQDRQ1	296-17920-1-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	2.00	1.60	1.20
TLE2071AQDRQ1	296-17920-2-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	2560.00/2,500		
TLE2071CD	296-10418-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.50	1.20	.90
TLE2071CP	296-10419-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.50	1.20	.90
TLE2071ID	296-10420-5-ND	Low Noise, High Speed JFET Op Amp	8-SOIC	1.75	1.40	1.05
TLE2071IP	296-10421-5-ND	Low Noise, High Speed JFET Op Amp	8-Dip	1.75	1.40	1.05
TLE2072ACD	296-10422-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.70	2.16	1.68
TLE2072ACP	296-10423-5-ND	Dual LN, High Speed JFET Op Amp	8-Dip	2.70	2.16	1.68
TLE2072AID	296-10424-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.93	2.34	1.82
TLE2072CD	296-1342-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.25	1.80	1.40
TLE2072CDR	296-1342-1-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.25	1.80	1.40
TLE2072CDR	296-1342-2-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	3150.00/2,500		
TLE2072CP	296-10426-5-ND	Dual LN, High Speed JFET Op Amp	8-Dip	2.25	1.80	1.40
TLE2072ID	296-10427-5-ND	Dual LN, High Speed JFET Op Amp	8-SOIC	2.48	1.98	1.54
TLE2074ACDW	296-10428-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4.95	3.96	3.08
TLE2074ACN	296-10429-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	4.95	3.96	3.08
TLE2074AIDW	296-10430-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	5.40	4.32	3.36
TLE2074CDWR	296-10431-1-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4.28	3.42	2.66
TLE2074CDWR	296-10431-2-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4846.00/2,000		
TLE2074CN	296-10432-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	4.28	3.42	2.66
TLE2074IDW	296-10433-5-ND	Quad LN, High Speed JFET Op Amp	16-SOIC	4.73	3.78	2.94
TLE2074IN	296-10434-5-ND	Quad LN, High Speed JFET Op Amp	14-Dip	4.73	3.78	2.94
TLE2081ACD	296-10435-5-ND	High Speed JFET-In Op Amp	8-SOIC	1.63	1.30	.98

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLE2081ACP	296-10436-5-ND	High Speed JFET-In Op Amp	8-Dip	1.63	1.30	.98
TLE2081CD	296-10437-5-ND	High Speed JFET-In Op Amp	8-SOIC	1.38	1.10	.83
TLE2081CP	296-10438-5-ND	High Speed JFET-In Op Amp	8-Dip	1.38	1.10	.83
TLE2081ID	296-10439-5-ND	High Speed JFET-In Op Amp	8-SOIC	1.63	1.30	.98
TLE2082ACD	296-10440-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2.36	1.89	1.47
TLE2082ACP	296-10441-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.25	1.80	1.35
TLE2082AID	296-10442-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2.48	1.98	1.54
TLE2082AIP	296-10443-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.48	1.98	1.54
TLE2082CD	296-10444-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2.25	1.80	1.35
TLE2082CP	296-1874-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.25	1.80	1.35
TLE2082ID	296-1343-5-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2.25	1.80	1.40
TLE2082IDR	296-1343-1-ND	Dual High Speed JFET-In Op Amp	8-SOIC	2.25	1.80	1.40
TLE2082IDR	296-1343-2-ND	Dual High Speed JFET-In Op Amp	8-SOIC	3150.00/2,500		
TLE2082IP	296-10446-5-ND	Dual High Speed JFET-In Op Amp	8-Dip	2.25	1.80	1.40
TLE2084ACDW	296-10447-5-ND	Quad High Speed JFET Op Amp	16-SOIC	4.50	3.60	2.80
TLE2084ACN	296-10448-5-ND	Quad High Speed JFET Op Amp	14-Dip	4.50	3.60	2.80
TLE2084CDW	296-10449-5-ND	Quad High Speed JFET Op Amp	16-SOIC	3.94	3.15	2.45
TLE2084CN	296-10450-5-ND	Quad High Speed JFET Op Amp	14-Dip	3.94	3.15	2.45
TLE2084IDW	296-10451-5-ND	Quad High Speed JFET Op Amp	16-SOIC	4.28	3.42	2.66
TLE2141ACD	296-10452-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.63	1.30	.98
TLE2141ACP	296-10453-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.63	1.30	.98
TLE2141AID	296-10454-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.75	1.40	1.05
TLE2141AIP	296-13361-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.75	1.40	1.05
TLE2141CD	296-10455-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.38	1.10	.83
TLE2141CP	296-10456-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.38	1.10	.83
TLE2141ID	296-10457-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-SOIC	1.50	1.20	.90
TLE2141IP	296-10458-5-ND	Excalibur Low Noise High Speed Precision Op Amp	8-Dip	1.50	1.20	.90
TLE2142ACD	296-10459-5-ND	Dual High Speed Precision Op Amp	8-SOIC	3.26	2.61	2.03
TLE2142AID	296-10461-5-ND	Dual High Speed Precision Op Amp	8-SOIC	3.49	2.79	2.17
TLE2142AMD	296-1875-5-ND	Dual High Speed Precision Op Amp	8-SOIC	3.83	3.06	2.38
TLE2142CD	296-10463-5-ND	Dual High Speed Precision Op Amp	8-SOIC	2.13	1.70	1.28
TLE2142CP	296-10464-5-ND	Dual High Speed Precision Op Amp	8-Dip	2.13	1.70	1.28
TLE2142CPWR	296-10465-1-ND	Dual High Speed Precision Op Amp	16-TSSOP	2.13	1.70	1.28
TLE2142CPWR	296-10465-2-ND	Dual High Speed Precision Op Amp	16-TSSOP	2210.00/2,000		
TLE2142ID	296-10466-5-ND	Dual High Speed Precision Op Amp	8-SOIC	2.38	1.90	1.43
TLE2142IP	296-10467-5-ND	Dual High Speed Precision Op Amp	8-Dip	2.38	1.90	1.43
TLE2142MD	296-10468-5-ND	Dual High Speed Precision Op Amp	8-SOIC	2.59	2.07	1.61
TLE2144ACN	296-10469-5-ND	Quad High Speed Precision Op Amp	14-Dip	4.50	3.60	2.80
TLE2144AIN	296-10470-5-ND	Quad High Speed Precision Op Amp	14-Dip	4.84	3.87	3.01
TLE2144CDW	296-10471-5-ND	Quad High Speed Precision Op Amp	16-SOIC	3.94	3.15	2.45
TLE2144CN	296-10472-5-ND	Quad High Speed Precision Op Amp	14-Dip	3.94	3.15	2.45
TLE2144IDW	296-10473-5-ND	Quad High Speed Precision Op Amp	16-SOIC	4.28	3.42	2.66
TLE2144IN	296-10474-5-ND	Quad High Speed Precision Op Amp	14-Dip	4.28	3.42	2.66
TLE2144MDW	296-10475-5-ND	Quad High Speed Precision Op Amp	16-SOIC	5.06	4.05	3.15
TLE2161ACD	296-10476-5-ND	Low Power JFET Op Amp	8-SOIC	1.63	1.30	.98
TLE2161AID	296-10478-5-ND	Low Power JFET Op Amp	8-SOIC	1.75	1.40	1.05
TLE2161CD	296-10480-5-ND	Low Power JFET Op Amp	8-SOIC	1.38	1.10	.83
TLE2161ID	296-10482-5-ND	Low Power JFET Op Amp	8-SOIC	1.63	1.30	.98
TLS1233N	296-10491-5-ND	Wide Band Video Preamp System	20-Dip	1.78	1.42	1.07
TLV27L1IDBVR	296-12228-1-ND	1-Channel, R/R, Output Op Amp	SOT-23-5	1.08	.90	.72
TLV27L1IDBVR	296-12228-2-ND	1-Channel, R/R, Output Op Amp	SOT-23-5	1404.00/3,000		
TLV27L1IDR	296-12229-1-ND	1-Channel, R/R, Output Op Amp	8-SOIC	1.08	.90	.72
TLV27L1IDR	296-12229-2-ND	1-Channel, R/R, Output Op Amp	8-SOIC	1170.00/2,500		
TLV27L2CDGKR	296-17057-1-ND	2-Channel, R/R, Output Op Amp	8-VSSOP	2.00	1.50	1.13
TLV27L2CDGKR	296-17057-2-ND	2-Channel, R/R, Output Op Amp	8-VSSOP	1600.00/2,500		
TLV27L2IDR	296-12230-1-ND	2-Channel, R/R, Output Op Amp	8-SOIC	1.25	1.00	.75
TLV27L2IDR	296-12230-2-ND	2-Channel, R/R, Output Op Amp	8-SOIC	1600.00/2,500		
TLV271ID	296-12300-5-ND	550µA/Ch., 3MHz, R/R, Output Op Amp	8-SOIC	.87	.73	.58
TLV271IDBVR	296-13371-1-ND	550µA/Ch., 3MHz, R/R, Output Op Amp	SOT-23-5	.87	.73	.58
TLV271IDBVR	296-13371-2-ND	550µA/Ch., 3MHz, R/R, Output Op Amp	SOT-23-5	1131.00/3,000		
TLV272IDGKR	296-11946-1-ND	Dual Rail-to-Rail Output Op Amp	8-MSOP	.96	.80	.64
TLV272IDGKR	296-11946-2-ND	Dual Rail-to-Rail Output Op Amp	8-MSOP	1040.00/2,500		
TLV272IDR	296-10655-1-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	.96	.80	.64
TLV272IDR	296-10655-2-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	1040.00/2,500		
TLV272IP	296-12671-5-ND	Dual Rail-to-Rail Output Op Amp	8-Dip	.96	.80	.64
TLV272QDRQ1	296-17870-1-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	1.02	.85	.68
TLV272QDRQ1	296-17870-2-ND	Dual Rail-to-Rail Output Op Amp	8-SOIC	1105.00/2,500		
TLV274CPWR	296-12286-1-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	1.08	.90	.72
TLV274CPWR	296-12286-2-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	958.00/2,000		
TLV274IDR	296-11981-1-ND	Quad 3MHz R/R Out Op Amp	14-SOIC	1.14	.95	.76
TLV274IDR	296-11981-2-ND	Quad 3MHz R/R Out Op Amp	14-SOIC	1235.00/2,500		
TLV274IN	296-14379-5-ND	Quad 3MHz R/R Out Op Amp	14-Dip	1.14	.95	.76
TLV274IPWR	296-11982-1-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	1.14	.95	.76
TLV274IPWR	296-11982-2-ND	Quad 3MHz R/R Out Op Amp	14-TSSOP	1010.00/2,000		
TLV274QDRQ1	296-18300-1-ND	Quad 3MHz R/R Out Op Amp	14-SOIC	1.23	1.03	.82
TLV274QDRQ1	296-18300-2-ND	Quad 3MHz R/R Out Op Amp	14-SOIC	1332.50/2,500		
TLV341AIDBVR	296-17680-1-ND	1.5V Single Op Amp	SOT-23-6	.96	.80	.64
TLV341AIDBVR	296-17680-2-ND	1.5V Single Op Amp	SOT-23-6	1248.00/3,000		
TLV341AIDCKR	296-17681-1-ND	1.5V Single Op Amp	SC70-6	.96	.80	.64
TLV341AIDCKR	296-17681-2-ND	1.5V Single Op Amp	SC70-6	1248.00/3,000		
TLV341IDBVR	296-17682-1-ND	1.5V Single Op Amp	SOT-23-6	.81	.68	.54
TLV341IDBVR	296-17682-2-ND	1.5V Single Op Amp	SOT-23-6	1053.00/3,000		
TLV341IDCKR	296-17683-1-ND	1.5V Single Op Amp	SC70-6	.81	.68	.54
TLV341IDCKR	296-17683-2-ND	1.5V Single Op Amp	SC70-6	1053.00/3,000		
TLV1391IDBVR	296-17618-1-ND	Single Differential Comparator	SOT-23-5	.75	.63	.50
TLV1391IDBVR	296-17618-2-ND	Single Differential Comparator	SOT-23-5	975.00/3,000		
TLV2211CDBVR	296-10500-1-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1.20	1.00	.80
TLV2211CDBVR	296-10500-2-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1560.00/3,000		
TLV2211IDBVR	296-10501-1-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1.26	1.05	.84
TLV2211IDBVR	296-10501-2-ND	Low Noise, LP, Rail-to-Rail Op Amp	SOT-23-5	1638.00/3,000		
TLV2221CDBVR	296-10504-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.20	1.00	.80
TLV2221CDBVR	296-10504-2-ND	Rail-to-Rail Op Amp	SOT-23-5	1560.00/3,000		
TLV2231CDBVR	296-12189-1-ND	Low Power Rail-to-Rail Op Amp	SOT-23-5	1.20	1.00	.80
TLV2231CDBVR	296-12189-2-ND	Low Power Rail-to-Rail Op Amp	SOT-23-5	1560.00/3,000		
TLV2231IDBVR	296-10505-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.26	1.05	.84
TLV2231IDBVR	296-10505-2-ND	Rail-to-Rail Op Amp	SOT-23-5	1638.00/3,000		
TLV2231IDBVT	296-17096-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.38	1.15	.92
TLV2231IDBVT	296-17096-2-ND	Rail-to-Rail Op Amp	SOT-23-5	172.50/250		
TLV2241IDBVT	296-10506-1-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	1.68	1.34	1.01
TLV2241IDBVT	296-10506-2-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	234.50/250		
TLV2241IDR	296-10507-1-ND	Micropower Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2241IDR	296-10507-2-ND	Micropower Rail-to-Rail Op Amp	8-SOIC	1985.00/2,500		
TLV2241IP	296-10508-5-ND	Micropower Rail-to-Rail Op Amp	8-Dip	1.55	1.24	.93
TLV2242IDGKR	296-10509-1-ND	Dual Micropower R/R Op Amp	8-MSOP	2.15	1.72	1.29
TLV2242IDGKR	296-10509-2-ND	Dual Micropower R/R Op Amp	8-MSOP	2752.50/2,500		
TLV2242IDR	296-10510-1-ND	Dual Micropower R/R Op Amp	8-SOIC	2.15	1.72	1.29
TLV2242IDR	296-10510-2-ND	Dual Micropower R/R Op Amp	8-SOIC	2752.50/2,500		
TLV2244IDR	296-10511-1-ND	Quad Micropower R/R Op Amp	14-SOIC	2.45	1.97	1.53
TLV2244IDR	296-10511-2-ND	Quad Micropower R/R Op Amp	14-SOIC	3432.50/2,500		
TLV2244IPW	296-10512-5-ND	Quad Micropower R/R Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2252AID	296-7430-5-ND	Dual Low Voltage R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2252AIP	296-7431-5-ND	Dual Low Voltage R/R Op Amp	8-Dip	1.68	1.34	1.01
TLV2252AIPW	296-7432-5-ND	Dual Low Voltage R/R Op Amp	8-TSSOP	1.68	1.34	1.01
TLV2252AQD	296-7433-5-ND	Dual Low Voltage R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2252AQDRQ1	296-18022-1-ND	Dual Low Voltage R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2252AQDRQ1	296-18022-2-ND	Dual Low Voltage R/R Op Amp	8-SOIC	2145.00/2,500		
TLV2252ID	296-7434-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	1.55	1.24	.93
TLV2252IP	296-7435-5-ND	Dual LP Low Voltage R/R Op Amp	8-Dip	1.55	1.24	.93
TLV2252QD	296-7436-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2254AID	296-7437-5-ND	Quad Low Voltage R/R Op Amp	14-SOIC	2.36	1.89	1.47
TLV2254AIN	296-7438-5-ND	Quad Low Voltage R/R Op Amp	14-Dip	2.36	1.89	1.47
TLV2254AIPWR	296-7439-1-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2254AIPWR	296-7439-2-ND	Quad Low Voltage R/R Op Amp	14-TSSOP	2678.00/2,000		
TLV2254AQD	296-7440-5-ND	Quad Low Voltage R/R Op Amp	14-SOIC	2.45	1.97	1.53
TLV2254ID	296-7441-5-ND	Quad LP Low Volt. R/R Op Amp	14-SOIC	2.25	1.80	1.40
TLV2254IN	296-7442-5-ND	Quad LP Low Voltage R/R Op Amp	14-Dip	2.25	1.80	1.40
TLV2262AID	296-7443-5-ND	Dual Advanced R/R Op Amp	8-SOIC	2.03	1.62	1.22
TLV2262AIP	296-7444-5-ND	Dual Advanced R/R Op Amp	8-Dip	2.03	1.62	1.22
TLV2262AIPWR	296-14378-1-ND	Dual Advanced R/R Op Amp	8-TSSOP	2.03	1.62	1.22
TLV2262AIPWR	296-14378-2-ND	Dual Advanced R/R Op Amp	8-TSSOP	2106.00/2,000		
TLV2262AQD	296-7445-5-ND	Dual Advanced R/R Op Amp	8-SOIC	2.15	1.72	1.29
TLV2262ID	296-7446-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	1.55	1.24	.93
TLV2262IP	296-7447-5-ND	Dual LP Low Voltage R/R Op Amp	8-Dip	1.55	1.24	.93
TLV2262IPWR	296-7448-1-ND	Dual LP Low Voltage R/R Op Amp	8-TSSOP	1.55	1.24	.93
TLV2262IPWR	296-7448-2-ND	Dual LP Low Voltage R/R Op Amp	8-TSSOP	1612.00/2,000		
TLV2262QD	296-7449-5-ND	Dual LP Low Voltage R/R Op Amp	8-SOIC	1.68	1.34	1.01
TLV2264AID	296-7450-5-ND	Quad Advanced Rail-to-Rail Op Amp	14-SOIC	2.57	2.06	1.60
TLV2264AIN	296-7451-5-ND	Quad Advanced Rail-to-Rail Op Amp	14-Dip	2.57	2.06	1.60
TLV2264AIPWR	296-7452-1-ND	Quad Adv. Rail-to-Rail Op Amp	14-TSSOP	2.57	2.06	1.60
TLV2264AIPWR	296-7452-2-ND	Quad Adv. Rail-to-Rail Op Amp	14-TSSOP	2908.00/2,000		
TLV2264IDR	296-7454-1-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	2.36	1.89	1.47
TLV2264IDR	296-7454-2-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	3307.50/2,500		
TLV2264IN	296-7455-5-ND	Quad LP Low Voltage R/R Op Amp	14-Dip	2.36	1.89	1.47
TLV2264IPWR	296-7456-1-ND	Quad LP Low Voltage R/R Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2264IPWR	296-7456-2-ND	Quad LP Low Voltage R/R Op Amp	14-TSSOP	2678.00/2,000		
TLV2264QD	296-7457-5-ND	Quad LP Low Voltage R/R Op Amp	14-SOIC	2.57	2.06	1.60
TLV2302IDGKR	296-12307-1-ND	Op Amp with O/C Comparator	8-MSOP	1.68	1.34	1.01
TLV2302IDGKR	296-12307-2-ND	Op Amp with O/C Comparator	8-MSOP	2145.00/2,500		
TLV2302IDR	296-10513-1-ND	Op Amp with O/C Comparator	8-SOIC	1.68	1.34	1.01
TLV2302IDR	296-10513-2-ND	Op Amp with O/C Comparator	8-SOIC	2145.00/2,500		
TLV2302IP	296-10514-5-ND	Op Amp with O/C Comparator	8-Dip	1.68	1.34	1.01
TLV2304IDR	296-10515-1-ND	Dual Op Amp with Dual O/C Comparator	14-SOIC	2.45	1.97	1.53
TLV2304IDR	296-10515-2-ND	Dual Op Amp with Dual O/C Comparator	14-SOIC	3432.50/2,500		
TLV2304IN	296-12041-5-ND	Dual Op Amp with Dual O/C Comparator	14-Dip	2.45	1.97	1.53
TLV2304IPWR	296-10516-1-ND	Dual Op Amp with Dual O/C Comparator	14-TSSOP	2.45	1.97	1.53
TLV2304IPWR	296-10516-2-ND	Dual Op Amp with Dual O/C Comparator	14-TSSOP	2780.00/2,000		
TLV2322ID	296-7458-5-ND	Dual Low Volt. Micropower Op Amp	8-SOIC	1.68	1.34	1.01
TLV2322IP	296-7459-5-ND	Dual Low Volt. Micropower Op Amp	8-Dip	1.68	1.34	1.01
TLV2322IPWR	296-7460-1-ND	Dual Low Volt. Micropower Op Amp	8-TSSOP	1.68	1.34	1.01
TLV2322IPWR	296-7460-2-ND	Dual Low Volt. Micropower Op Amp	8-TSSOP	1742.00/2,000		
TLV2324ID	296-7461-5-ND	Quad Low Volt. Micropower Op Amp	14-SOIC	2.36	1.89	1.47
TLV2324IN	296-7462-5-ND	Quad Low Volt. Micropower Op Amp	14-Dip	2.36	1.89	1.47
TLV2324IPWR	296-7464-1-ND	Quad Low Volt. Micropower Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2324IPWR	296-7464-2-ND	Quad Low Volt. Micropower Op Amp	14-TSSOP	2678.00/2,000		
TLV2332ID	296-7465-5-ND	Dual LP Low Voltage Op Amp	8-SOIC	1.44	1.20	.96
TLV2332IP	296-7466-5-ND	Dual LP Low Voltage Op Amp	8-Dip	1.44	1.20	.96
TLV2332IPWR	296-7467-1-ND	Dual LP Low Voltage Op Amp	8-TSSOP	1.44	1.20	.96
TLV2332IPWR	296-7467-2-ND	Dual LP Low Voltage Op Amp	8-TSSOP	1276.00/2,000		
TLV2334ID	296-7468-5-ND	Quad LP Low Voltage Op Amp	14-SOIC	2.45	1.97	1.53
TLV2334IN	296-7469-5-ND	Quad LP Low Voltage Op Amp	14-Dip	2.45	1.97	1.53
TLV2334IPWR	296-7470-1-ND	Quad LP Low Voltage Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2334IPWR	296-7470-2-ND	Quad LP Low Voltage Op Amp	14-TSSOP	2780.00/2,000		
TLV2341ID	296-7471-5-ND	Low Voltage Programmable Op Amp	8-SOIC	1.55	1.24	.93
TLV2341IP	296-7472-5-ND	Low Voltage Programmable Op Amp	8-Dip	1.55	1.24	.93
TLV2342ID	296-7473-5-ND	Dual Low Voltage High-Speed Op Amp	8-SOIC	2.38	1.90	1.43
TLV2342IP	296-7474-5-ND	Dual Low Voltage High-Speed Op Amp	8-Dip	2.38	1.90	1.43
TLV2344ID	296-7475-5-ND	Quad Low Voltage HS Op Amp	14-SOIC	2.88	2.31	1.80
TLV2344IN	296-7476-5-ND	Quad Low Voltage HS Op Amp	14-Dip	2.88	2.31	1.80
TLV2361CDBV	296-10523-5-ND	High Perf. Low Voltage Op Amp	SOT-23-5	.87	.73	.58
TLV2361CDBVR	296-13798-1-ND	High Perf. Low Voltage Op Amp	SOT-23-5	.80	.60	.45
TLV2361CDBVR	296-13798-2-ND	High Perf. Low Voltage Op Amp	SOT-23-5	780.00/3,000		
TLV2361IDBVR	296-13745-1-ND	High Perf. Low Voltage Op Amp	SOT-23-5	.75	.63	.50

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLV2361IDBVR	296-13745-2-ND	High Perf. Low Voltage Op Amp	SOT-23-5	975.00/3,000		
TLV2362IDGKR	296-13995-1-ND	High Perf. Low Voltage Op Amp	8-MSOP	.75	.63	.50
TLV2362IDGKR	296-13995-2-ND	High Perf. Low Voltage Op Amp	8-MSOP	812.50/2,500		
TLV2362IDR	296-15029-1-ND	High Performance Low Volt. Op Amp	8-SOIC	.76	.57	.43
TLV2362IDR	296-15029-2-ND	High Performance Low Volt. Op Amp	8-SOIC	617.50/2,500		
TLV2362IP	296-10526-5-ND	Dual High Performance Op Amp	8-Dip	.76	.57	.43
TLV2362IPWR	296-10527-1-ND	Dual High Performance Op Amp	8-TSSOP	.76	.57	.43
TLV2362IPWR	296-10527-2-ND	Dual High Performance Op Amp	8-TSSOP	506.00/2,000		
TLV2370IDBVR	296-12617-1-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	SOT-23-6	1.35	1.13	.90
TLV2370IDBVR	296-12617-2-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	SOT-23-6	1755.00/3,000		
TLV2370IDR	296-12298-1-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-SOIC	1.35	1.13	.90
TLV2370IDR	296-12298-2-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-SOIC	1462.50/2,500		
TLV2370IP	296-12217-5-ND	550µA/Channel 3MHz R/R In/Out Op Amp with Shutdown	8-Dip	1.35	1.13	.90
TLV2371IDBVR	296-13057-1-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	SOT-23-5	1.23	1.03	.82
TLV2371IDBVR	296-13057-2-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	SOT-23-5	1599.00/3,000		
TLV2371IDR	296-12299-1-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	8-SOIC	1.23	1.03	.82
TLV2371IDR	296-12299-2-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp	8-SOIC	1332.50/2,500		
TLV2371IP	296-12218-5-ND	550µA/Ch., 3MHz, R/R, I/O Op Amp with Shutdown	8-Dip	1.23	1.03	.82
TLV2371QDRQ1	296-18908-1-ND	550µA/Ch., 3MHz R/R I/O Op Amp	8-SOIC	1.35	1.13	.90
TLV2371QDRQ1	296-18908-2-ND	550µA/Ch., 3MHz R/R I/O Op Amp	8-SOIC	1462.50/2,500		
TLV2372IDR	296-10528-1-ND	Dual 3MHz R/R In/Out Op Amp	8-SOIC	1.30	1.04	.78
TLV2372IDR	296-10528-2-ND	Dual 3MHz R/R In/Out Op Amp	8-SOIC	1665.00/2,500		
TLV2372IP	296-12219-5-ND	Dual 3MHz R/R In/Out Op Amp	8-Dip	1.30	1.04	.78
TLV2372QDRQ1	296-18909-1-ND	Dual 3MHz R/R In/Out Op Amp	8-SOIC	1.43	1.14	.86
TLV2372QDRQ1	296-18909-2-ND	Dual 3MHz R/R In/Out Op Amp	8-SOIC	1825.00/2,500		
TLV2373IDGSR	296-11624-1-ND	Dual 3MHz Rail-to-Rail, Op Amp with Shutdown	10-MSOP	1.43	1.14	.86
TLV2373IDGSR	296-11624-2-ND	Dual 3MHz Rail-to-Rail, Op Amp with Shutdown	10-MSOP	1825.00/2,500		
TLV2373IDR	296-10529-1-ND	Dual 3MHz Rail-to-Rail, I/O Op Amp with Shutdown	14-SOIC	1.43	1.14	.86
TLV2373IDR	296-10529-2-ND	Dual 3MHz Rail-to-Rail, I/O Op Amp with Shutdown	14-SOIC	1825.00/2,500		
TLV2373IN	296-12220-5-ND	Dual 3MHz Rail-to-Rail, I/O Op Amp with Shutdown	14-Dip	1.43	1.14	.86
TLV2374IDR	296-11967-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-SOIC	1.55	1.24	.93
TLV2374IDR	296-11967-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-SOIC	1985.00/2,500		
TLV2374IPWR	296-11968-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-TSSOP	1.55	1.24	.93
TLV2374IPWR	296-11968-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-TSSOP	1612.00/2,000		
TLV2374IN	296-12221-5-ND	Quad 3MHz Rail-to-Rail I/O Op Amp	14-Dip	1.55	1.24	.93
TLV2374MDREP	296-19520-1-ND	Quad 3MHz Rail-to-Rail In/Out Op Amp ***NEW!***	14-SOIC	3.49	2.79	2.17
TLV2374MDREP	296-19520-2-ND	Quad 3MHz Rail-to-Rail In/Out Op Amp ***NEW!***	14-SOIC	4882.50/2,500		
TLV2375IDR	296-11969-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-SOIC	1.68	1.34	1.01
TLV2375IDR	296-11969-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-SOIC	2145.00/2,500		
TLV2375IPWR	296-11970-1-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-TSSOP	1.68	1.34	1.01
TLV2375IPWR	296-11970-2-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-TSSOP	1742.00/2,000		
TLV2375IN	296-12222-5-ND	Quad 3MHz Rail-to-Rail I/O Op Amp with Shutdown	16-Dip	1.68	1.34	1.01
TLV2381IDBVT	296-12223-1-ND	1-Channel, Rail-to-Rail, I/O Op Amp	SOT-23-5	1.55	1.24	.93
TLV2381IDBVT	296-12223-2-ND	1-Channel, Rail-to-Rail, I/O Op Amp	SOT-23-5	217.00/250		
TLV2381IDR	296-12224-1-ND	1-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	1.43	1.14	.86
TLV2381IDR	296-12224-2-ND	1-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	1825.00/2,500		
TLV2382IDR	296-12226-1-ND	2-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	1.90	1.52	1.14
TLV2382IDR	296-12226-2-ND	2-Channel, Rail-to-Rail, I/O Op Amp	8-SOIC	2432.50/2,500		
TLV2401CDR	296-10530-1-ND	Micropower Op Amp	8-SOIC	1.55	1.24	.93
TLV2401CDR	296-10530-2-ND	Micropower Op Amp	8-SOIC	1985.00/2,500		
TLV2401IDBVT	296-10531-1-ND	Micropower Op Amp	SOT-23-5	1.78	1.42	1.07
TLV2401IDBVT	296-10531-2-ND	Micropower Op Amp	SOT-23-5	248.50/250		
TLV2401IDR	296-10532-1-ND	Micropower Op Amp	8-SOIC	1.68	1.34	1.01
TLV2401IDR	296-10532-2-ND	Micropower Op Amp	8-SOIC	2145.00/2,500		
TLV2401IP	296-10533-5-ND	Micropower Op Amp	8-Dip	1.68	1.34	1.01
TLV2402CDR	296-10534-1-ND	Dual Micropower R/R Op Amp	8-SOIC	2.38	1.90	1.43
TLV2402CDR	296-10534-2-ND	Dual Micropower R/R Op Amp	8-SOIC	3040.00/2,500		
TLV2402IDGK	296-13799-5-ND	Dual Micropower R/R Op Amp	8-MSOP	2.25	1.80	1.40
TLV2402IDGKRG4	296-18604-1-ND	Dual Micropower R/R Op Amp	8-MSOP	2.25	1.80	1.40
TLV2402IDGKRG4	296-18604-2-ND	Dual Micropower R/R Op Amp	8-MSOP	3150.00/2,500		
TLV2402IDR	296-10535-1-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	2.25	1.80	1.40
TLV2402IDR	296-10535-2-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	3150.00/2,500		
TLV2402IP	296-10536-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-Dip	2.25	1.80	1.40
TLV2404AIN	296-13363-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-Dip	3.31	2.65	2.06
TLV2404CD	296-2427-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-SOIC	2.99	2.40	1.87
TLV2404IDR	296-10537-1-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-SOIC	3.22	2.58	2.01
TLV2404IDR	296-10537-2-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-SOIC	4505.00/2,500		
TLV2404IN	296-10538-5-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-Dip	3.22	2.58	2.01
TLV2404IPWR	296-10539-1-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-TSSOP	3.22	2.58	2.01
TLV2404IPWR	296-10539-2-ND	880nA/Ch. R/R, I/O Op Amp with Reverse Battery Protection	14-TSSOP	3646.00/2,000		
TLV2422AID	296-10540-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2422CD	296-10541-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2422CPWR	296-10542-1-ND	Dual Micropower R/R Op Amp	8-TSSOP	1.68	1.34	1.01
TLV2422CPWR	296-10542-2-ND	Dual Micropower R/R Op Amp	8-TSSOP	1742.00/2,000		
TLV2422ID	296-10543-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.78	1.42	1.07
TLV2422QD	296-10544-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2432AID	296-10545-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2432AIPWR	296-10546-1-ND	Dual Micropower R/R Op Amp	8-TSSOP	1.90	1.52	1.14
TLV2432AIPWR	296-10546-2-ND	Dual Micropower R/R Op Amp	8-TSSOP	1976.00/2,000		
TLV2432AQD	296-10547-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	2.03	1.62	1.22
TLV2432CD	296-10548-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.30	1.04	.78
TLV2432ID	296-10549-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2432QD	296-10550-5-ND	Dual Micropower Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2434AIDR	296-14409-1-ND	Quad R/R Micropower Op Amp	14-SOIC	2.36	1.89	1.47
TLV2434AIDR	296-14409-2-ND	Quad R/R Micropower Op Amp	14-SOIC	3307.50/2,500		
TLV2434AIPWR	296-10551-1-ND	Quad R/R Micropower Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2434AIPWR	296-10551-2-ND	Quad R/R Micropower Op Amp	14-TSSOP	2678.00/2,000		
TLV2434CD	296-10552-5-ND	Quad R/R Micropower Op Amp	14-SOIC	2.38	1.90	1.43
TLV2434CPW	296-10553-5-ND	Quad R/R Micropower Op Amp	14-TSSOP	2.38	1.90	1.43
TLV2434IDR	296-10554-1-ND	Quad R/R Micropower Op Amp	14-SOIC	2.25	1.80	1.40
TLV2434IDR	296-10554-2-ND	Quad R/R Micropower Op Amp	14-SOIC	3150.00/2,500		
TLV2434IPWR	296-10555-1-ND	Quad R/R Micropower Op Amp	14-TSSOP	2.25	1.80	1.40
TLV2434IPWR	296-10555-2-ND	Quad R/R Micropower Op Amp	14-TSSOP	2550.00/2,000		
TLV2442AIDR	296-10556-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.78	1.42	1.07
TLV2442AIDR	296-10556-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2272.50/2,500		
TLV2442AQD	296-10557-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2442AQPW	296-10558-5-ND	Dual, Rail-to-Rail Op Amp	8-SOP	1.90	1.52	1.14
TLV2442CD	296-10559-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.30	1.04	.78
TLV2442ID	296-10560-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2442QD	296-10561-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2442QPW	296-10562-5-ND	Dual, Rail-to-Rail Op Amp	8-TSSOP	1.55	1.24	.93
TLV2444AIPWR	296-10563-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.25	1.80	1.40
TLV2444AIPWR	296-10563-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2550.00/2,000		
TLV2444CD	296-10564-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.25	1.80	1.35
TLV2444CPW	296-10565-5-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.25	1.80	1.35
TLV2444IDR	296-10566-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.38	1.90	1.43
TLV2444IDR	296-10566-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3040.00/2,500		
TLV2444IPWR	296-10567-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.38	1.90	1.43
TLV2444IPWR	296-10567-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2470.00/2,000		
TLV2450AID	296-10568-5-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2450AIDR	296-10568-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2450AIDR	296-10568-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	2145.00/2,500		
TLV2450AIP	296-10569-5-ND	Single, Rail-to-Rail Op Amp	8-Dip	1.68	1.34	1.01
TLV2450CD	296-1884-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2450CDBVR	296-10570-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	1.55	1.24	.93
TLV2450CDBVR	296-10570-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	2382.00/3,000		
TLV2450CP	296-1885-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.55	1.24	.93
TLV2450ID	296-1886-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2450IDBVR	296-10571-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	1.55	1.24	.93
TLV2450IDBVR	296-10571-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-6	2382.00/3,000		
TLV2450IP	296-1887-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.55	1.24	.93
TLV2451AID	296-10572-5-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2451AIDR	296-10572-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2451AIDR	296-10572-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1985.00/2,500		
TLV2451AIP	296-10573-5-ND	Single, Rail-to-Rail Op Amp	8-Dip	1.55	1.24	.93
TLV2451CD	296-1888-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2451CDR	296-1888-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2451CDR	296-1888-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1825.00/2,500		
TLV2451CDBVR	296-10574-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	1.43	1.14	.86
TLV2451CDBVR	296-10574-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	2190.00/3,000		
TLV2451CP	296-1889-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.43	1.14	.86
TLV2451ID	296-1890-5-ND	Low Power Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2451IDR	296-1890-1-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1.43	1.14	.86
TLV2451IDR	296-1890-2-ND	Single, Rail-to-Rail Op Amp	8-SOIC	1825.00/2,500		
TLV2451IDBVR	296-10576-1-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	1.43	1.14	.86
TLV2451IDBVR	296-10576-2-ND	Single, Rail-to-Rail Op Amp	SOT-23-5	2190.00/3,000		
TLV2451IP	296-1891-5-ND	Low Power Rail-to-Rail Op Amp	8-Dip	1.43	1.14	.86
TLV2452AIDR	296-10578-1-ND	Dual, Rail-to-Rail Op Amp	8-SOP	2.15	1.72	1.29
TLV2452AIDR	296-10578-2-ND	Dual, Rail-to-Rail Op Amp	8-SOP	2752.50/2,500		
TLV2452AIP	296-10579-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.15	1.72	1.29
TLV2452CD	296-2428-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2452CDR	296-2428-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2452CDR	296-2428-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2432.50/2,500		
TLV2452CDGKR	296-10580-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	1.90	1.52	1.14
TLV2452CDGKR	296-10580-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2432.50/2,500		
TLV2452IDGKR	296-10582-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2.03	1.62	1.22
TLV2452IDGKR	296-10582-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2592.50/2,500		
TLV2452IDR	296-10583-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.03	1.62	1.22
TLV2452IDR	296-10583-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2592.50/2,500		
TLV2452IP	296-10584-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.03	1.62	1.22
TLV2453AIDR	296-10585-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.38	1.90	1.43
TLV2453AIDR	296-10585-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	3040.00/2,500		
TLV2453AIN	296-10586-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.38	1.90	1.43
TLV2453CD	296-2429-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.15	1.72	1.29
TLV2453CDR	296-2429-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.15	1.72	1.29
TLV2453CDR	296-2429-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2752.50/2,500		
TLV2453CDGSR	296-10587-1-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2.15	1.72	1.29
TLV2453CDGSR	296-10587-2-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2752.50/2,500		
TLV2453IDGSR	296-10589-1-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2.25	1.80	1.35
TLV2453IDGSR	296-10589-2-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2880.00/2,500		
TLV2453IDR	296-10590-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.25	1.80	1.35
TLV2453IDR	296-10590-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2880.00/2,500		
TLV2453IN	296-10591-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.25	1.80	1.35
TLV2454AID	296-10592-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.45	1.97	1.53
TLV2454AIDR	296-10592-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.45	1.97	1.53
TLV2454AIDR	296-10592-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3432.50/2,500		
TLV2454AIN	296-10593-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	2.45	1.97	1.53
TLV2454AIPWR	296-10594-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2454AIPWR	296-10594-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2780.00/2,000		
TLV2454CD	296-2430-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.25	1.80	1.40
TLV2454CN	296-10595-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	2.25	1.80	1.40
TLV2454ID	296-10596-5-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.36	1.89	1.47
TLV2454IDR	296-10597-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.36	1.89	1.47
TLV2454IDR	296-10597-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3307.50/2,500		
TLV2454IN	296-10598-5-ND	Quad, Rail-to-Rail Op Amp	14-Dip	2.36	1.89	1.47

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
TLV2454IPWR	296-10599-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2454IPWR	296-10599-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2678.00/2,000		
TLV2455AID	296-10600-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.68	2.15	1.67
TLV2455AIDR	296-10600-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.68	2.15	1.67
TLV2455AIDR	296-10600-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3747.50/2,500		
TLV2455AIN	296-10601-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.68	2.15	1.67
TLV2455AIPWR	296-10602-1-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2.68	2.15	1.67
TLV2455AIPWR	296-10602-2-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	3034.00/2,000		
TLV2455CD	296-2431-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.45	1.97	1.53
TLV2455CN	296-10603-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.45	1.97	1.53
TLV2455CPWR	296-10604-1-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2.45	1.97	1.53
TLV2455CPWR	296-10604-2-ND	Quad, Rail-to-Rail Op Amp	16-TSSOP	2780.00/2,000		
TLV2455ID	296-10605-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.57	2.06	1.60
TLV2455IDR	296-10605-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.57	2.06	1.60
TLV2455IDR	296-10605-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3590.00/2,500		
TLV2455IN	296-10606-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.57	2.06	1.60
TLV2460AIDR	296-7477-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.68	1.34	1.01
TLV2460AIDR	296-7477-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	2145.00/2,500		
TLV2460AIP	296-7478-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.68	1.34	1.01
TLV2460CD	296-2432-5-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2460CDR	296-2432-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2460CDR	296-2432-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1985.00/2,500		
TLV2460CDBVR	296-7479-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	1.55	1.24	.93
TLV2460CDBVR	296-7479-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2382.00/3,000		
TLV2460CP	296-7480-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.55	1.24	.93
TLV2460IDBVR	296-7481-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	1.55	1.24	.93
TLV2460IDBVR	296-7481-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2382.00/3,000		
TLV2460IDR	296-7482-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2460IDR	296-7482-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1985.00/2,500		
TLV2460IP	296-7483-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.55	1.24	.93
TLV2461AIDR	296-7484-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2461AIDR	296-7484-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1985.00/2,500		
TLV2461AIP	296-7485-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.55	1.24	.93
TLV2461CDBVR	296-7487-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	1.43	1.14	.86
TLV2461CDBVR	296-7487-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	2190.00/3,000		
TLV2461CDBVT	296-2433-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	1.55	1.24	.93
TLV2461CDBVT	296-2433-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	217.00/250		
TLV2461CDR	296-7488-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.43	1.14	.86
TLV2461CDR	296-7488-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1825.00/2,500		
TLV2461CP	296-7489-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.43	1.14	.86
TLV2461IDBVR	296-7490-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	1.43	1.14	.86
TLV2461IDBVR	296-7490-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-5	2190.00/3,000		
TLV2461IDR	296-7491-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.43	1.14	.86
TLV2461IDR	296-7491-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1825.00/2,500		
TLV2461IP	296-7492-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.43	1.14	.86
TLV2462AIDR	296-7557-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.15	1.72	1.29
TLV2462AIDR	296-7557-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2752.50/2,500		
TLV2462AIP	296-7558-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	2.15	1.72	1.29
TLV2462AQD	296-12066-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.25	1.80	1.35
TLV2462AQDRQ1	296-17738-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.38	1.90	1.43
TLV2462AQDRQ1	296-17738-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	3040.00/2,500		
TLV2462AQPWR	296-12067-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-TSSOP	2.25	1.80	1.35
TLV2462AQPWR	296-12067-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-TSSOP	2394.00/2,000		
TLV2462CD	296-2434-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	1.90	1.52	1.14
TLV2462CDR	296-2434-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	1.90	1.52	1.14
TLV2462CDR	296-2434-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2432.50/2,500		
TLV2462CP	296-1892-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	1.90	1.52	1.14
TLV2462ID	296-7562-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.03	1.62	1.22
TLV2462IDR	296-7562-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.03	1.62	1.22
TLV2462IDR	296-7562-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2592.50/2,500		
TLV2462IDGKR	296-7561-1-ND	Dual LP Rail-to-Rail I/O Op Amp	8-MSOP	2.03	1.62	1.22
TLV2462IDGKR	296-7561-2-ND	Dual LP Rail-to-Rail I/O Op Amp	8-MSOP	2592.50/2,500		
TLV2462IP	296-1893-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-Dip	2.03	1.62	1.22
TLV2462QD	296-12068-5-ND	Dual LP Rail-to-Rail I/O Op Amp	8-SOIC	2.15	1.72	1.29
TLV2463AIDR	296-7563-1-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.38	1.90	1.43
TLV2463AIDR	296-7563-2-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	3040.00/2,500		
TLV2463AIN	296-7564-5-ND	Dual LP R/R I/O Op Amp with SD	14-Dip	2.38	1.90	1.43
TLV2463AQD	296-12069-5-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.38	1.90	1.43
TLV2463AQPWR	296-12070-1-ND	Dual LP R/R I/O Op Amp with SD	14-TSSOP	2.38	1.90	1.43
TLV2463AQPWR	296-12070-2-ND	Dual LP R/R I/O Op Amp with SD	14-TSSOP	2470.00/2,000		
TLV2463CD	296-2435-5-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.15	1.72	1.29
TLV2463CDR	296-2435-1-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.15	1.72	1.29
TLV2463CDR	296-2435-2-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2752.50/2,500		
TLV2463CDGS	296-7565-5-ND	Dual LP R/R I/O Op Amp with SD	10-MSOP	2.15	1.72	1.29
TLV2463CN	296-7567-5-ND	Dual LP R/R I/O Op Amp with SD	14-Dip	2.15	1.72	1.29
TLV2463ID	296-1894-5-ND	Dual LP Rail-to-Rail Op Amp	14-SOIC	2.25	1.80	1.35
TLV2463IDGSR	296-7568-1-ND	Dual LP R/R I/O Op Amp with SD	10-MSOP	2.25	1.80	1.35
TLV2463IDGSR	296-7568-2-ND	Dual LP R/R I/O Op Amp with SD	10-MSOP	2880.00/2,500		
TLV2463IN	296-1895-5-ND	Dual LP R/R Op Amp	14-Dip	2.25	1.80	1.35
TLV2463QD	296-12071-5-ND	Dual LP R/R I/O Op Amp with SD	14-SOIC	2.38	1.90	1.43
TLV2463QPWR	296-12072-1-ND	Dual LP R/R I/O Op Amp with SD	14-TSSOP	2.38	1.90	1.43
TLV2463QPWR	296-12072-2-ND	Dual LP R/R I/O Op Amp with SD	14-TSSOP	2470.00/2,000		
TLV2464AIDR	296-14410-1-ND	Quad LP R/R I/O Op Amp	14-SOIC	2.45	1.97	1.53
TLV2464AIDR	296-14410-2-ND	Quad LP R/R I/O Op Amp	14-SOIC	3432.50/2,500		
TLV2464AIPW	296-14050-5-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2464AMDREP	296-19521-1-ND	Quad LP R/R I/O Op Amp ***NEW!***	14-SOIC	5.44	4.36	3.68
TLV2464AMDREP	296-19521-2-ND	Quad LP R/R I/O Op Amp ***NEW!***	14-SOIC	8432.50/2,500		
TLV2464AMPWREP	296-19522-1-ND	Quad LP R/R I/O Op Amp ***NEW!***	14-TSSOP	5.44	4.36	3.68
TLV2464AMPWREP	296-19522-2-ND	Quad LP R/R I/O Op Amp ***NEW!***	14-TSSOP	6800.00/2,000		
TLV2464AQPWRQ1	296-18910-1-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2.68	2.15	1.67
TLV2464AQPWRQ1	296-18910-2-ND	Quad LP R/R I/O Op Amp	14-TSSOP	3034.00/2,000		
TLV2464CD	296-2436-5-ND	Quad LP R/R I/O Op Amp	14-SOIC	2.25	1.80	1.40
TLV2464CDR	296-2436-1-ND	Quad LP R/R I/O Op Amp	14-SOIC	2.25	1.80	1.40
TLV2464CDR	296-2436-2-ND	Quad LP R/R I/O Op Amp	14-SOIC	3150.00/2,500		
TLV2464CN	296-7570-5-ND	Quad LP R/R I/O Op Amp	14-Dip	2.25	1.80	1.40
TLV2464CPWR	296-7571-1-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2.25	1.80	1.40
TLV2464CPWR	296-7571-2-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2550.00/2,000		
TLV2464ID	296-10608-5-ND	Quad LP R/R Op Amp	14-SOIC	2.36	1.89	1.47
TLV2464IDR	296-10608-1-ND	Quad LP R/R Op Amp	14-SOIC	2.36	1.89	1.47
TLV2464IDR	296-10608-2-ND	Quad LP R/R I/O Op Amp	14-SOIC	3307.50/2,500		
TLV2464IN	296-7573-5-ND	Quad LP R/R I/O Op Amp	14-Dip	2.36	1.89	1.47
TLV2464IPWR	296-7575-1-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2.36	1.89	1.47
TLV2464IPWR	296-7575-2-ND	Quad LP R/R I/O Op Amp	14-TSSOP	2678.00/2,000		
TLV2465CD	296-2437-5-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	2.45	1.97	1.53
TLV2465CDR	296-2437-1-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	2.45	1.97	1.53

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
TLV2465CDR	296-2437-2-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	3432.50/2,500		
TLV2465CN	296-7577-5-ND	Quad LP R/R I/O Op Amp with SD	16-Dip	2.45	1.97	1.53
TLV2465CPWR	296-7578-1-ND	Quad LP R/R I/O Op Amp with SD	16-TSSOP	2.45	1.97	1.53
TLV2465CPWR	296-7578-2-ND	Quad LP R/R I/O Op Amp with SD	16-TSSOP	2780.00/2,000		
TLV2465ID	296-10609-5-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	2.57	2.06	1.60
TLV2465ID	296-10609-1-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	2.57	2.06	1.60
TLV2465IDR	296-10609-2-ND	Quad LP R/R I/O Op Amp with SD	16-SOIC	3590.00/2,500		
TLV2465IN	296-7580-5-ND	Quad LP R/R I/O Op Amp with SD	16-Dip	2.57	2.06	1.60
TLV2465IPWR	296-7581-1-ND	Quad LP R/R I/O Op Amp with SD	16-TSSOP	2.57	2.06	1.60
TLV2465IPWR	296-7581-2-ND	Quad LP R/R I/O Op Amp with SD	16-TSSOP	2908.00/2,000		
TLV2470AIDR	296-7493-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.68	1.34	1.01
TLV2470AIDR	296-7493-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	2145.00/2,500		
TLV2470AIP	296-7494-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.68	1.34	1.01
TLV2470CD	296-2438-5-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2470CDR	296-2438-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2470CDR	296-2438-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1985.00/2,500		
TLV2470CDBVR	296-7495-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	1.55	1.24	.93
TLV2470CDBVR	296-7495-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2382.00/3,000		
TLV2470CP	296-7496-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.55	1.24	.93
TLV2470IDBVR	296-7497-1-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	1.55	1.24	.93
TLV2470IDBVR	296-7497-2-ND	LP R/R I/O Op Amp with Shutdown	SOT-23-6	2382.00/3,000		
TLV2470IDR	296-7498-1-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1.55	1.24	.93
TLV2470IDR	296-7498-2-ND	LP R/R I/O Op Amp with Shutdown	8-SOIC	1985.00/2,500		
TLV2470IP	296-7499-5-ND	LP R/R I/O Op Amp with Shutdown	8-Dip	1.55	1.24	.93
TLV2471AIDR	296-7500-1-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1.55	1.24	.93
TLV2471AIDR	296-7500-2-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1985.00/2,500		
TLV2471AIP	296-7501-5-ND	LP Rail-to-Rail I/O Op Amp	8-Dip	1.55	1.24	.93
TLV2471CD	296-2439-5-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1.43	1.14	.86
TLV2471CDR	296-2439-1-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1.43	1.14	.86
TLV2471CDR	296-2439-2-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1825.00/2,500		
TLV2471CDBVR	296-7502-1-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	1.43	1.14	.86
TLV2471CDBVR	296-7502-2-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	2190.00/3,000		
TLV2471CP	296-7503-5-ND	LP Rail-to-Rail I/O Op Amp	8-Dip	1.43	1.14	.86
TLV2471IDBVR	296-7504-1-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	1.43	1.14	.86
TLV2471IDBVR	296-7504-2-ND	LP Rail-to-Rail I/O Op Amp	SOT-23-5	2190.00/3,000		
TLV2471IDR	296-7505-1-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1.43	1.14	.86
TLV2471IDR	296-7505-2-ND	LP Rail-to-Rail I/O Op Amp	8-SOIC	1825.00/2,500		
TLV2471IP	296-7506-5-ND	LP Rail-to-Rail I/O Op Amp	8-Dip	1.43	1.14	.86
TLV2471QDBVRQ1	296-19366-1-ND	LP Rail-to-Rail I/O Op Amp ***NEW!***	SOT-23-5	1.55	1.24	.93
TLV2471QDBVRQ1	296-19366-2-ND	LP Rail-to-Rail I/O Op Amp ***NEW!***	SOT-23-5	2382.00/3,000		
TLV2472AID	296-10610-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
TLV2472AIDR	296-10610-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
TLV2472AIDR	296-10610-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2752.50/2,500		
TLV2472AIP	296-10611-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.15	1.72	1.29
TLV2472CDGNR	296-10612-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	1.90	1.52	1.14
TLV2472CDGNR	296-10612-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2432.50/2,500		
TLV2472CD	296-2440-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2472CDR	296-2440-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	1.90	1.52	1.14
TLV2472CDR	296-2440-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2432.50/2,500		
TLV2472IDGNR	296-10615-1-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2.03	1.62	1.22
TLV2472IDGNR	296-10615-2-ND	Dual, Rail-to-Rail Op Amp	8-MSOP	2592.50/2,500		
TLV2472ID	296-10614-5-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.03	1.62	1.22
TLV2472IDR	296-10616-1-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2.03	1.62	1.22
TLV2472IDR	296-10616-2-ND	Dual, Rail-to-Rail Op Amp	8-SOIC	2592.50/2,500		
TLV2472IP	296-10617-5-ND	Dual, Rail-to-Rail Op Amp	8-Dip	2.03	1.62	1.22
TLV2473AID	296-10618-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.38	1.90	1.43
TLV2473AIDR	296-10618-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.38	1.90	1.43
TLV2473AIDR	296-10618-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	3040.00/2,500		
TLV2473AIN	296-10619-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.38	1.90	1.43
TLV2473CDGQR	296-10620-1-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2.15	1.72	1.29
TLV2473CDGQR	296-10620-2-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2752.50/2,500		
TLV2473CD	296-2441-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.15	1.72	1.29
TLV2473CDR	296-2441-1-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.15	1.72	1.29
TLV2473CDR	296-2441-2-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2752.50/2,500		
TLV2473ID	296-10622-5-ND	Dual, Rail-to-Rail Op Amp	14-SOIC	2.25	1.80	1.35
TLV2473IDGQR	296-10623-1-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2.25	1.80	1.35
TLV2473IDGQR	296-10623-2-ND	Dual, Rail-to-Rail Op Amp	10-MSOP	2880.00/2,500		
TLV2473IN	296-10625-5-ND	Dual, Rail-to-Rail Op Amp	14-Dip	2.25	1.80	1.35
TLV2474AIDR	296-10626-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.45	1.97	1.53
TLV2474AIDR	296-10626-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3432.50/2,500		
TLV2474AIN	296-10627-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	2.45	1.97	1.53
TLV2474AIPWPR	296-10628-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2.57	2.06	1.60
TLV2474AIPWPR	296-10628-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2908.00/2,000		
TLV2474AIPWR	296-13364-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2474AIPWR	296-13364-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	2780.00/2,000		
TLV2474APWPRQ1	296-18276-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	2.57	2.06	1.60
TLV2474APWPRQ1	296-18276-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-TSSOP	2908.00/2,000		
TLV2474CD	296-2442-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.25	1.80	1.40
TLV2474CDR	296-2442-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.25	1.80	1.40
TLV2474CDR	296-2442-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3150.00/2,500		
TLV2474CN	296-10630-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	2.25	1.80	1.40
TLV2474CPWPR	296-10631-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2.36	1.89	1.47
TLV2474CPWPR	296-10631-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2678.00/2,000		
TLV2474IDR	296-10632-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	2.36	1.89	1.47

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV2474IDR	296-10632-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-SOIC	3307.50/2,500		
TLV2474IN	296-10633-5-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-Dip	2.36	1.89	1.47
TLV2474IPWPR	296-12009-1-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2.45	1.97	1.53
TLV2474IPWPR	296-12009-2-ND	Quad, 600µ/Ch. 2.8MHz R/R, I/O, High Drive Op Amp	14-HTSSOP	2780.00/2,000		
TLV2475AIDR	296-10634-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.68	2.15	1.67
TLV2475AIDR	296-10634-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3747.50/2,500		
TLV2475AIN	296-10635-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.68	2.15	1.67
TLV2475AIPWPR	296-10636-1-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2.79	2.24	1.74
TLV2475AIPWPR	296-10636-2-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	3162.00/2,000		
TLV2475CD	296-2443-5-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.45	1.97	1.53
TLV2475CDR	296-2443-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.45	1.97	1.53
TLV2475CDR	296-2443-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3432.50/2,500		
TLV2475CN	296-10638-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.45	1.97	1.53
TLV2475CPWPR	296-10639-1-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2.57	2.06	1.60
TLV2475CPWPR	296-10639-2-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2908.00/2,000		
TLV2475IDR	296-10640-1-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	2.57	2.06	1.60
TLV2475IDR	296-10640-2-ND	Quad, Rail-to-Rail Op Amp	16-SOIC	3590.00/2,500		
TLV2475IN	296-10641-5-ND	Quad, Rail-to-Rail Op Amp	16-Dip	2.57	2.06	1.60
TLV2475IPWPR	296-10642-1-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	2.68	2.15	1.67
TLV2475IPWPR	296-10642-2-ND	Quad, Rail-to-Rail Op Amp	16-HTSSOP	3034.00/2,000		
TLV2620IDBVT	296-15332-5-ND	Single Supply Op Amp	SOT-23-6	1.55	1.24	.93
TLV2620IDR	296-11662-1-ND	Single Supply Op Amp	8-SOIC	1.43	1.14	.86
TLV2620IDR	296-11662-2-ND	Single Supply Op Amp	8-SOIC	1825.00/2,500		
TLV2621IDBVT	296-15333-1-ND	Single Supply Op Amp	SOT-23-5	1.14	.95	.76
TLV2621IDBVT	296-15333-2-ND	Single Supply Op Amp	SOT-23-5	142.50/250		
TLV2621IDR	296-11667-1-ND	Single Supply Op Amp	8-SOIC	1.05	.88	.70
TLV2621IDR	296-11667-2-ND	Single Supply Op Amp	8-SOIC	1137.50/2,500		
TLV2622IDGKR	296-10647-1-ND	Dual, Rail-to-Rail, HS Op Amp	8-MSOP	1.68	1.34	1.01
TLV2622IDGKR	296-10647-2-ND	Dual, Rail-to-Rail, HS Op Amp	8-MSOP	2145.00/2,500		
TLV2622IDR	296-10648-1-ND	Dual, Rail-to-Rail, HS Op Amp	8-SOIC	1.68	1.34	1.01
TLV2622IDR	296-10648-2-ND	Dual, Rail-to-Rail, HS Op Amp	8-SOIC	2145.00/2,500		
TLV2623IDGSR	296-10649-1-ND	Dual, Rail-to-Rail, LP Op Amp	10-MSOP	1.90	1.52	1.14
TLV2623IDGSR	296-10649-2-ND	Dual, Rail-to-Rail, LP Op Amp	10-MSOP	2432.50/2,500		
TLV2623IDR	296-10650-1-ND	Dual, Rail-to-Rail, LP Op Amp	14-SOIC	1.90	1.52	1.14
TLV2623IDR	296-10650-2-ND	Dual, Rail-to-Rail, LP Op Amp	14-SOIC	2432.50/2,500		
TLV2624IDR	296-11665-1-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	2.38	1.90	1.43
TLV2624IDR	296-11665-2-ND	Quad, Rail-to-Rail Op Amp	14-SOIC	3040.00/2,500		
TLV2624IPWR	296-11655-1-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2.38	1.90	1.43
TLV2624IPWR	296-11655-2-ND	Quad, Rail-to-Rail Op Amp	14-TSSOP	2470.00/2,000		
TLV2625IDR	296-11695-1-ND	Low Voltage Quad Op Amp	16-SOIC	2.36	1.89	1.47
TLV2625IDR	296-11695-2-ND	Low Voltage Quad Op Amp	16-SOIC	3307.50/2,500		
TLV2625IPWR	296-11669-1-ND	Low Voltage Quad Op Amp	16-TSSOP	2.36	1.89	1.47
TLV2625IPWR	296-11669-2-ND	Low Voltage Quad Op Amp	16-TSSOP	2678.00/2,000		
TLV2630IDBVR	296-11971-1-ND	9MHz R/R Output Op Amp with SD	SOT-23-6	1.78	1.42	1.07
TLV2630IDBVR	296-11971-2-ND	9MHz R/R Output Op Amp with SD	SOT-23-6	2727.00/3,000		
TLV2631IDBVR	296-11973-1-ND	9MHz Rail-to-Rail Output Op Amp	SOT-23-5	1.20	1.00	.80
TLV2631IDBVR	296-11973-2-ND	9MHz Rail-to-Rail Output Op Amp	SOT-23-5	1560.00/3,000		
TLV2632IDGKR	296-13368-1-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-MSOP	2.25	1.80	1.35
TLV2632IDGKR	296-13368-2-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-MSOP	2880.00/2,500		
TLV2632IDR	296-11975-1-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-SOIC	2.25	1.80	1.35
TLV2632IDR	296-11975-2-ND	Dual, Low Power, Wide Bandwidth, Single Supply R/R Op Amp	8-SOIC	2880.00/2,500		
TLV2633IDGSR	296-13369-1-ND	Dual, LP, Wide Bandwidth, Single Supply R/R Op Amp w/Shutdown	10-MSOP	2.25	1.80	1.40
TLV2633IDGSR	296-13369-2-ND	Dual, LP, Wide Bandwidth, Single Supply R/R Op Amp w/Shutdown	10-MSOP	3150.00/2,500		
TLV2634IPWR	296-11978-1-ND	Quad 9MHz R/R Output Op Amp	14-TSSOP	2.79	2.24	1.74
TLV2634IPWR	296-11978-2-ND	Quad 9MHz R/R Output Op Amp	14-TSSOP	3162.00/2,000		
TLV2711CDBVR	296-10651-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.11	.93	.74
TLV2711CDBVR	296-10651-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1443.00/3,000		
TLV2711IDBVR	296-10652-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.17	.98	.78
TLV2711IDBVR	296-10652-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1521.00/3,000		
TLV2721CDBVR	296-10653-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.11	.93	.74
TLV2721CDBVR	296-10653-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1443.00/3,000		
TLV2721IDBVR	296-10654-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.17	.98	.78
TLV2721IDBVR	296-10654-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1521.00/3,000		
TLV2731CDBVR	296-10656-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.11	.93	.74
TLV2731CDBVR	296-10656-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1443.00/3,000		
TLV2731IDBVR	296-10657-1-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1.17	.98	.78
TLV2731IDBVR	296-10657-2-ND	LP, Rail-to-Rail Op Amp	SOT-23-5	1521.00/3,000		
TLV2760ID	296-10658-5-ND	Micropower Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2760IDBVT	296-10659-1-ND	Micropower Rail-to-Rail Op Amp	SOT-23-6	1.78	1.42	1.07
TLV2760IDBVT	296-10659-2-ND	Micropower Rail-to-Rail Op Amp	SOT-23-6	248.50/250		
TLV2760IP	296-10660-5-ND	Micropower Rail-to-Rail Op Amp	8-Dip	1.68	1.34	1.01
TLV2761ID	296-10661-5-ND	Micropower Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2761IDBVT	296-10662-1-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	1.68	1.34	1.01
TLV2761IDBVT	296-10662-2-ND	Micropower Rail-to-Rail Op Amp	SOT-23-5	234.50/250		
TLV2761IP	296-10663-5-ND	Low Power, Single R/R Op Amp	8-Dip	1.55	1.24	.93
TLV2762IDGKR	296-10664-1-ND	HS, Dual Rail-to-Rail Op Amp	8-TSSOP	2.15	1.72	1.29
TLV2762IDGKR	296-10664-2-ND	HS, Dual Rail-to-Rail Op Amp	8-TSSOP	2752.50/2,500		
TLV2762IDR	296-10665-1-ND	Low Power, Dual Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
TLV2762IDR	296-10665-2-ND	Low Power, Dual Rail-to-Rail Op Amp	8-SOIC	2752.50/2,500		
TLV2763CD	296-10666-5-ND	Low Power, Dual R/R Op Amp	14-SOIC	2.25	1.80	1.35
TLV2763CDR	296-10666-1-ND	Low Power, Dual R/R Op Amp	14-SOIC	2.25	1.80	1.35
TLV2763CDR	296-10666-2-ND	Low Power, Dual R/R Op Amp	14-SOIC	2880.00/2,500		
TLV2763IDGSR	296-10667-1-ND	Low Power, Dual R/R Op Amp	10-TSSOP	2.38	1.90	1.43
TLV2763IDGSR	296-10667-2-ND	Low Power, Dual R/R Op Amp	10-TSSOP	3040.00/2,500		
TLV2763IDR	296-10668-1-ND	Low Power, Dual R/R Op Amp	14-SOIC	2.38	1.90	1.43
TLV2763IDR	296-10668-2-ND	Low Power, Dual R/R Op Amp	14-SOIC	3040.00/2,500		
TLV2763IN	296-10669-5-ND	Low Power, Dual Rail-to-Rail Op Amp	14-Dip	2.38	1.90	1.43
TLV2764IDR	296-10670-1-ND	Micropower Single R/R Op Amp	14-SOIC	2.45	1.97	1.53
TLV2764IDR	296-10670-2-ND	Micropower Single R/R Op Amp	14-SOIC	3432.50/2,500		
TLV2764IN	296-14051-5-ND	1.8V Micropower R/R Input/Output Op Amp with Shutdown	14-Dip	2.45	1.97	1.53
TLV2764IPWR	296-10671-1-ND	Micropower Single R/R Op Amp	14-TSSOP	2.45	1.97	1.53
TLV2764IPWR	296-10671-2-ND	Micropower Single R/R Op Amp	14-TSSOP	2780.00/2,000		
TLV2765IDR	296-10672-1-ND	Micropower Single R/R Op Amp	16-SOIC	2.68	2.15	1.67
TLV2765IDR	296-10672-2-ND	Micropower Single R/R Op Amp	16-SOIC	3747.50/2,500		
TLV2765IPWR	296-10673-1-ND	Micropower Single R/R Op Amp	16-TSSOP	2.68	2.15	1.67
TLV2765IPWR	296-10673-2-ND	Micropower Single R/R Op Amp	16-TSSOP	3034.00/2,000		
TLV2770AIP	296-7583-5-ND	Single 2.7V R/R Op Amp w/Shutdown	8-Dip	1.90	1.52	1.14
TLV2770CD	296-1896-5-ND	Single 2.7V R/R Op Amp w/Shutdown	8-SOIC	1.68	1.34	1.01
TLV2770CDR	296-1896-1-ND	Single 2.7V R/R Op Amp w/Shutdown	8-SOIC	1.68	1.34	1.01
TLV2770CDR	296-1896-2-ND	Single 2.7V R/R Op Amp w/Shutdown	8-SOIC	2145.00/2,500		
TLV2770CDGKR	296-7584-1-ND	Single 2.7V R/R Op Amp with SD	8-MSOP	1.68	1.34	1.01
TLV2770CDGKR	296-7584-2-ND	Single 2.7V R/R Op Amp with SD	8-MSOP	2145.00/2,500		
TLV2770CP	296-1897-5-ND	Rail-to-Rail Op Amp	8-Dip	1.68	1.34	1.01
TLV2770ID	296-1898-5-ND	Single 2.7V R/R I/O Op Amp with SD	8-SOIC	1.78	1.42	1.07
TLV2770IDR	296-1898-1-ND	Single 2.7V R/R I/O Op Amp with SD	8-SOIC	1.78	1.42	1.07
TLV2770IDR	296-1898-2-ND	Single 2.7V R/R I/O Op Amp with SD	8-SOIC	2272.50/2,500		
TLV2770IDGKR	296-7585-1-ND	Single 2.7V R/R Op Amp with SD	8-MSOP	1.78	1.42	1.07
TLV2770IDGKR	296-7585-2-ND	Single 2.7V R/R Op Amp with SD	8-MSOP	2272.50/2,500		
TLV2770IP	296-1899-5-ND	Rail-to-Rail Op Amp	8-Dip	1.78	1.42	1.07
TLV2771AIDR	296-7586-1-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2771AIDR	296-7586-2-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	2145.00/2,500		
TLV2771CD	296-1900-5-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2771CDR	296-1900-1-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1.55	1.24	.93
TLV2771CDR	296-1900-2-ND	Single 2.7V Rail-to-Rail Op Amp	8-SOIC	1985.00/2,500		
TLV2771CDBVR	296-1346-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.55	1.24	.93
TLV2771CDBVR	296-1346-2-ND	Rail-to-Rail Op Amp	SOT-23-5	2382.00/3,000		
TLV2771IDBVR	296-1347-1-ND	Rail-to-Rail Op Amp	SOT-23-5	1.68	1.34	1.01
TLV2771IDBVR	296-1347-2-ND	Rail-to-Rail Op Amp	SOT-23-5	2574.00/3,000		
TLV2771ID	296-10674-5-ND	HS, Single Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2771IDR	296-10674-1-ND	HS, Single Rail-to-Rail Op Amp	8-SOIC	1.68	1.34	1.01
TLV2771IDR	296-10674-2-ND	HS, Single Rail-to-Rail Op Amp	8-SOIC	2145.00/2,500		
TLV2772AIDR	296-7587-1-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.35	1.88	1.41
TLV2772AIDR	296-7587-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	3007.50/2,500		
TLV2772AIP	296-7588-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-Dip	2.35	1.88	1.41
TLV2772AMD	296-7589-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.57	2.06	1.60
TLV2772AMDREP	296-19523-1-ND	Dual 2.7V Rail-to-Rail Op Amp ***NEW!***	8-SOIC	5.00	4.00	3.38
TLV2772AMDREP	296-19523-2-ND	Dual 2.7V Rail-to-Rail Op Amp ***NEW!***	8-SOIC	7750.00/2,500		
TLV2772AQD	296-10675-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.25	1.80	1.40
TLV2772AQPW	296-10676-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-TSSOP	2.25	1.80	1.40
TLV2772CD	296-10677-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.15	1.72	1.29
TLV2772CDR	296-10677-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2752.50/2,500		
TLV2772CDGK	296-7591-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-MSOP	2.15	1.72	1.29
TLV2772CP	296-7592-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-Dip	2.15	1.72	1.29
TLV2772ID	296-1902-5-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.25	1.80	1.35
TLV2772IDR	296-1902-1-ND	Dual Rail-to-Rail Op Amp	8-SOIC	2.25	1.80	1.35
TLV2772IDR	296-1902-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2880.00/2,500		
TLV2772IDGKR	296-7593-1-ND	Dual 2.7V Rail-to-Rail Op Amp	8-MSOP	2.25	1.80	1.35
TLV2772IDGKR	296-7593-2-ND	Dual 2.7V Rail-to-Rail Op Amp	8-MSOP	2880.00/2,500		
TLV2772IP	296-1903-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-Dip	2.25	1.80	1.35
TLV2772MD	296-7594-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.45	1.97	1.53
TLV2772QD	296-10678-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-SOIC	2.35	1.88	1.41
TLV2772QPW	296-10679-5-ND	Dual 2.7V Rail-to-Rail Op Amp	8-TSSOP	2.35	1.88	1.41
TLV2773AIN	296-7596-5-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-Dip	2.36	1.89	1.47
TLV2773CD	296-2444-5-ND	Dual Rail-to-Rail Op Amp	14-SOIC	2.35	1.88	1.41
TLV2773CDR	296-2444-1-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	2.35	1.88	1.41
TLV2773CDR	296-2444-2-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	3007.50/2,500		
TLV2773CDGS	296-7597-5-ND	Dual 2.7V R/R Op Amp w/Shutdown	10-MSOP	2.35	1.88	1.41
TLV2773IDGSR	296-7599-1-ND	Dual 2.7V R/R Op Amp w/Shutdown	10-MSOP	2.25	1.80	1.40
TLV2773IDGSR	296-7599-2-ND	Dual 2.7V R/R Op Amp w/Shutdown	10-MSOP	3150.00/2,500		
TLV2773IDR	296-7600-1-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	2.25	1.80	1.40
TLV2773IDR	296-7600-2-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-SOIC	3150.00/2,500		
TLV2773IN	296-7601-5-ND	Dual 2.7V R/R Op Amp w/Shutdown	14-Dip	2.25	1.80	1.40
TLV2774AIDR	296-7602-1-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.79	2.24	1.74
TLV2774AIDR	296-7602-2-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	3905.00/2,500		
TLV2774AIN	296-7603-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-Dip	2.79	2.24	1.74
TLV2774CD	296-1904-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.57	2.06	1.60
TLV2774CDR	296-1904-1-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.57	2.06	1.60
TLV2774CDR	296-1904-2-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	3590.00/2,500		
TLV2774CN	296-1905-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-Dip	2.57	2.06	1.60
TLV2774CPWR	296-7604-1-ND	Quad 2.7V Rail-to-Rail Op Amp	14-TSSOP	2.57	2.06	1.60
TLV2774CPWR	296-7604-2-ND	Quad 2.7V Rail-to-Rail Op Amp	14-TSSOP	2908.00/2,000		
TLV2774ID	296-1906-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-SOIC	2.68	2.15	1.67
TLV2774IN	296-1907-5-ND	Quad 2.7V Rail-to-Rail Op Amp	14-Dip	2.68	2.15	1.67
TLV2775AIDR	296-7605-1-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	3.11	2.49	1.94
TLV2775AIDR	296-7605-2-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	4347.50/2,500		
TLV2775AIN	296-7606-5-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-Dip	3.11	2.49	1.94
TLV2775AIPW	296-10680-5-ND	Quad 2.7V R/R Op Amp w/SD	16-TSSOP	3.11	2.49	1.94
TLV2775CD	296-1908-5-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	2.79	2.24	1.74
TLV2775CN	296-1909-5-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-Dip	2.79	2.24	1.74
TLV2775ID	296-1910-5-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	2.99	2.40	1.87
TLV2775IDR	296-10681-1-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	2.99	2.40	1.87
TLV2775IDR	296-10681-2-ND	Quad 2.7V R/R Op Amp w/Shutdown	16-SOIC	4190.00/2,500		
TLV2775IN	296-7607-5-ND	Quad 2.7V R/R Op Amp w/Shutdown	14-Dip	2.99	2.40	1.87
TLV2780IDBVR	296-7608-1-ND	8MHz, 1.8V R/R Op Amp w/SD	SOT-23-6	1.78	1.42	1.07
TLV2780IDBVR	296-7608-2-ND	8MHz, 1.8V R/R Op Amp w/SD	SOT-23-6	2727.00/3,000		
TLV2780IDR	296-7609-1-ND	8MHz, 1.8V R/R I/O Op Amp w/SD	8-SOIC	1.78	1.42	1.07
TLV2780IDR	296-7609-2-ND	8MHz, 1.8V R/R I/O Op Amp w/SD	8-SOIC	2272.50/2,500		
TLV2781IDBVR	296-7610-1-ND	8MHz, 1.8V R/R I/O Op Amp	SOT-23-5	1.55	1.24	.93
TLV2781IDBVR	296-7610-2-ND	8MHz, 1.8V R/R I/O Op Amp	SOT-23-5	2382.00/3,000		
TLV2781IDR	296-7611-1-ND	8MHz, 1.8V R/R I/O Op Amp	8-SOIC	1.55	1.24	.93
TLV2781IDR	296-7611-2-ND	8MHz, 1.8V R/R I/O Op Amp	8-SOIC	1985.00/2,500		
TLV2782AID	296-7612-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2.38	1.90	1.43
TLV2782CD	296-2445-5-ND	Low Voltage, Dual, R/R Op Amp	8-SOIC	2.15	1.72	1.29
TLV2782CDR	296-2445-1-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2.15	1.72	1.29
TLV2782CDR	296-2445-2-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2752.50/2,500		
TLV2782CDGKR	296-7613-1-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2.15	1.72	1.29
TLV2782CDGKR	296-7613-2-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2752.50/2,500		
TLV2782ID	296-11652-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-SOIC	2.25	1.80	1.35
TLV2782IDGKR	296-7615-1-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2.25	1.80	1.35
TLV2782IDGKR	296-7615-2-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-MSOP	2880.00/2,500		
TLV2782IP	296-7616-5-ND	Dual 8MHz, 1.8V R/R I/O Op Amp	8-Dip	2.25	1.80	1.35
TLV2783AID	296-13372-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.36	1.89	1.47

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLV2783CD	296-10684-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.38	1.90	1.43
TLV2783CDR	296-10684-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.38	1.90	1.43
TLV2783CDR	296-10684-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	3040.00/2,500		
TLV2783CDGSR	296-10683-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-MSOP	2.38	1.90	1.43
TLV2783CDGSR	296-10683-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-MSOP	3040.00/2,500		
TLV2783ID	296-2446-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.25	1.80	1.40
TLV2783IDGSR	296-10685-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-MSOP	2.25	1.80	1.40
TLV2783IDGSR	296-10685-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	10-MSOP	3150.00/2,500		
TLV2783IN	296-10686-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-Dip	2.25	1.80	1.40
TLV2784AID	296-10687-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.79	2.24	1.74
TLV2784CPWR	296-13373-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-TSSOP	2.57	2.06	1.60
TLV2784CPWR	296-13373-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-TSSOP	2908.00/2,000		
TLV2784IDR	296-10688-1-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	2.68	2.15	1.67
TLV2784IDR	296-10688-2-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-SOIC	3747.50/2,500		
TLV2784IPW	296-10689-5-ND	1.8V, 8MHz, High Speed R/R, I/O Op Amp with Shutdown	14-TSSOP	2.68	2.15	1.67
TLV2785AID	296-10690-5-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-SOIC	2.99	2.40	1.87
TLV2785CPWR	296-10691-1-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-TSSOP	2.79	2.24	1.74
TLV2785CPWR	296-10691-2-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-TSSOP	3162.00/2,000		
TLV2785IDR	296-10692-1-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-SOIC	2.88	2.31	1.80
TLV2785IDR	296-10692-2-ND	Quad, 1.8V/8MHz, R/R Op Amp	16-SOIC	4032.50/2,500		
TLV3404IDR	296-10710-1-ND	LP, Quad Rail-to-Rail Op Amp	14-SOIC	2.59	2.07	1.61
TLV3404IDR	296-10710-2-ND	LP, Quad Rail-to-Rail Op Amp	14-SOIC	3622.50/2,500		
TLV3404IPWR	296-10711-1-ND	LP, Quad Rail-to-Rail Op Amp	14-TSSOP	2.59	2.07	1.61
TLV3404IPWR	296-10711-2-ND	LP, Quad Rail-to-Rail Op Amp	14-TSSOP	2932.00/2,000		
TLV3491AID	296-14052-5-ND	Single Nanopower Push-Pull Output Comparator	8-SOIC	1.20	1.00	.80
TLV3491AIDBVT	296-14053-1-ND	Single Nanopower Push-Pull Output Comparator	SOT-23-5	1.32	1.10	.88
TLV3491AIDBVT	296-14053-2-ND	Single Nanopower Push-Pull Output Comparator	SOT-23-5	165.00/250		
TLV3492AID	296-14054-5-ND	Dual Nanopower Push-Pull Output Comparator	8-SOIC	1.55	1.24	.93
TLV3492AIDCNT	296-14055-1-ND	Dual Nanopower Push-Pull Output Comparator	SOT-23-8	1.68	1.34	1.01
TLV3492AIDCNT	296-14055-2-ND	Dual Nanopower Push-Pull Output Comparator	SOT-23-8	234.50/250		
TLV3494AID	296-14056-5-ND	Quad Nanopower Push-Pull Output Comparator	14-SOIC	2.25	1.80	1.35
TLV3494AIPWT	296-14057-1-ND	Quad Nanopower Push-Pull Output Comparator	14-TSSOP	2.25	1.80	1.40
TLV3494AIPWT	296-14057-2-ND	Quad Nanopower Push-Pull Output Comparator	14-TSSOP	332.50/250		
TLV4110IDGNR	296-10713-1-ND	High Out/Low Volt Single Rail-to-Rail Op Amp with Shutdown	8-MSOP	1.90	1.52	1.14
TLV4110IDGNR	296-10713-2-ND	High Out/Low Volt Single Rail-to-Rail Op Amp with Shutdown	8-MSOP	2432.50/2,500		
TLV4110IDR	296-12301-1-ND	High Out/Low Volt Single Rail-to-Rail Op Amp with Shutdown	8-SOIC	1.90	1.52	1.14
TLV4110IDR	296-12301-2-ND	High Out/Low Volt Single Rail-to-Rail Op Amp with Shutdown	8-SOIC	2432.50/2,500		
TLV4110IP	296-15719-5-ND	High Out/Low Volt Single Rail-to-Rail Op Amp with Shutdown	8-Dip	1.90	1.52	1.14
TLV4111IDGNR	296-10714-1-ND	High Out/Low Volt Single Rail-to-Rail Op Amp	8-MSOP	1.78	1.42	1.07
TLV4111IDGNR	296-10714-2-ND	High Out/Low Volt Single Rail-to-Rail Op Amp	8-MSOP	2272.50/2,500		
TLV4111IDR	296-10715-1-ND	High Out/Low Volt Single Rail-to-Rail Op Amp	8-SOIC	1.78	1.42	1.07
TLV4111IDR	296-10715-2-ND	High Out/Low Volt Single Rail-to-Rail Op Amp	8-SOIC	2272.50/2,500		
TLV4112CD	296-2447-5-ND	Dual High-Drive Op Amp	8-SOIC	2.15	1.72	1.29
TLV4112CP	296-10716-5-ND	High-Out-Drive Dual R/R Op Amp	8-Dip	2.15	1.72	1.29
TLV4112ID	296-10717-5-ND	High-Out-Drive Dual R/R Op Amp	8-SOIC	2.25	1.80	1.35
TLV4112IDGNR	296-10718-1-ND	High-Out-Drive Dual R/R Op Amp	8-MSOP	2.25	1.80	1.35
TLV4112IDGNR	296-10718-2-ND	High-Out-Drive Dual R/R Op Amp	8-MSOP	2880.00/2,500		
TLV4112IP	296-10719-5-ND	High-Out-Drive Dual R/R Op Amp	8-Dip	2.25	1.80	1.35
TLV4113ID	296-10720-5-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	14-SOIC	2.38	1.90	1.43
TLV4113IDGQR	296-10721-1-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	10-HTSSOP	2.38	1.90	1.43
TLV4113IDGQR	296-10721-2-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	10-HTSSOP	3040.00/2,500		
TLV4113IN	296-15720-5-ND	High-Out-Drive Dual Rail-to-Rail Op Amp with Shutdown	14-Dip	2.38	1.90	1.43
TLV4120IDGNR	296-10722-1-ND	High-Out-Drive Signal Rail-to-Rail Op Amp with Shutdown	8-MSOP	2.79	2.24	1.74
TLV4120IDGNR	296-10722-2-ND	High-Out-Drive Signal Rail-to-Rail Op Amp with Shutdown	8-MSOP	3905.00/2,500		
TPA005D12DCA	296-2448-5-ND	2W Stereo Power Amp	48-TSSOP	9.60	7.68	6.48
TPA005D14DCA	296-2449-5-ND	2W Stereo Power Amp, Upgrade for TPA005D04DCA	48-TSSOP	8.91	8.03	7.12
TPA032D01DCA	296-2461-5-ND	10W Monaural Power Amp	48-HTSSOP	10.50	9.45	8.38
TPA032D02DCA	296-2462-5-ND	10W Class-D Stereo Audio Power Amp	48-TSSOP	12.08	10.88	9.65
TPA032D02DCAR	296-2462-1-ND	10W Class-D Stereo Audio Power Amp	48-TSSOP	12.08	10.88	9.65
TPA032D02DCAR	296-2462-2-ND	10W Class-D Stereo Audio Power Amp	48-TSSOP	17908.00/2,000		
TPA032D03DCA	296-2463-5-ND	10W Monaural Power Amp	48-HTSSOP	11.50	10.35	9.18

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPA032D04DCA	296-2464-5-ND	10W Stereo Power Amplifier	48-HTSSOP	12.66	11.40	10.11
TPA102DGN	296-1941-5-ND	150mW Stereo Audio Power Amp	8-MSOP	1.38	1.15	.92
TPA102DGNR	296-1941-1-ND	150mW Stereo Audio Power Amp	8-MSOP	1.38	1.15	.92
TPA102DGNR	296-1941-2-ND	150mW Stereo Audio Power Amp	8-MSOP	1495.00/2,500		
TPA112D	296-2465-5-ND	150mW Stereo Audio Power Amp	8-SOIC	.99	.83	.66
TPA112DR	296-2465-1-ND	150mW Stereo Audio Power Amp	8-SOIC	.99	.83	.66
TPA112DR	296-2465-2-ND	150mW Stereo Audio Power Amp	8-SOIC	1072.50/2,500		
TPA112DGN	296-1942-5-ND	150mW Stereo Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA112DGNR	296-1942-1-ND	150mW Stereo Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA112DGNR	296-1942-2-ND	150mW Stereo Audio Power Amp	8-MSOP	1397.50/2,500		
TPA122D	296-2466-5-ND	150mW Stereo Audio Power Amp	8-SOIC	1.08	.90	.72
TPA122DR	296-2466-1-ND	150mW Stereo Audio Power Amp	8-SOIC	1.08	.90	.72
TPA122DR	296-2466-2-ND	150mW Stereo Audio Power Amp	8-SOIC	1170.00/2,500		
TPA122DGN	296-1943-5-ND	150mW Stereo Audio Power Amp	8-MSOP	1.38	1.15	.92
TPA122DGNR	296-1943-1-ND	150mW Stereo Audio Power Amp	8-MSOP	1.38	1.15	.92
TPA122DGNR	296-1943-2-ND	150mW Stereo Audio Power Amp	8-MSOP	1495.00/2,500		
TPA152D	296-1944-5-ND	75mW Single-Ended Audio Power Amp	8-SOIC	1.30	1.04	.78
TPA152DR	296-1944-1-ND	75mW Single-Ended Audio Power Amp	8-SOIC	1.30	1.04	.78
TPA152DR	296-1944-2-ND	75mW Single-Ended Audio Power Amp	8-SOIC	1665.00/2,500		
TPA301D	296-1945-5-ND	0.35W Mono Audio Power Amp	8-SOIC	.87	.73	.58
TPA301DR	296-1945-1-ND	0.35W Mono Audio Power Amp	8-SOIC	.87	.73	.58
TPA301DR	296-1945-2-ND	0.35W Mono Audio Power Amp	8-SOIC	942.50/2,500		
TPA301DGN	296-1946-5-ND	0.35W Mono Audio Power Amp	8-MSOP	1.14	.95	.76
TPA302D	296-7011-5-ND	0.3W Stereo Audio Power Amp	8-SOIC	2.25	1.80	1.40
TPA311D	296-1947-5-ND	0.35W Mono Audio Power Amp	8-SOIC	.87	.73	.58
TPA311DR	296-1947-1-ND	0.35W Mono Audio Power Amp	8-SOIC	.87	.73	.58
TPA311DR	296-1947-2-ND	0.35W Mono Audio Power Amp	8-SOIC	942.50/2,500		
TPA311DGN	296-1948-5-ND	0.35W Mono Audio Power Amp	8-MSOP	1.14	.95	.76
TPA321D	296-7012-5-ND	350mW Low Volt. Audio Power Amp with Differential Inputs	8-SOIC	.87	.73	.58
TPA321DGN	296-12563-5-ND	350mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1.14	.95	.76
TPA701D	296-1949-5-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA701DR	296-1949-1-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA701DR	296-1949-2-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1072.50/2,500		
TPA701DGN	296-7022-5-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA701DGNR	296-7022-1-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA701DGNR	296-7022-2-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1397.50/2,500		
TPA711D	296-1950-5-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA711DR	296-1950-1-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA711DR	296-1950-2-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1072.50/2,500		
TPA711DGNR	296-7023-1-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA711DGNR	296-7023-2-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1397.50/2,500		
TPA721D	296-1951-5-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA721DR	296-1951-1-ND	700mW Low Volt. Audio Power Amp	8-SOIC	.99	.83	.66
TPA721DR	296-1951-2-ND	700mW Low Volt. Audio Power Amp	8-SOIC	1072.50/2,500		
TPA721DGNR	296-7024-1-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA721DGNR	296-7024-2-ND	700mW Low Volt. Audio Power Amp	8-MSOP	1397.50/2,500		
TPA731D	296-7025-5-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-SOIC	.99	.83	.66
TPA731DGNR	296-7026-1-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1.29	1.08	.86
TPA731DGNR	296-7026-2-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1397.50/2,500		
TPA741D	296-7027-5-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-SOIC	.99	.83	.66
TPA741DGNR	296-7028-1-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1.29	1.08	.86
TPA741DGNR	296-7028-2-ND	700mW Low Volt. Audio Power Amp with Differential Inputs	8-MSOP	1397.50/2,500		
TPA751D	296-10855-5-ND	Low Voltage Audio Power Amp	8-SOIC	.99	.83	.66
TPA751DGNR	296-10856-1-ND	Low Voltage Audio Power Amp	8-MSOP	1.29	1.08	.86
TPA751DGNR	296-10856-2-ND	Low Voltage Audio Power Amp	8-MSOP	1397.50/2,500		
TPA751GQSR	296-12691-1-ND	700mW Low Volt. Audio Power Amp	24-BGA	1.30	1.04	.78
TPA751GQSR	296-12691-2-ND	700mW Low Volt. Audio Power Amp	24-BGA	1665.00/2,500		
TPA0102PWP	296-1938-5-ND	1.5W Stereo Audio Power Amp	24-HTSSOP	2.35	1.88	1.41
TPA0102PWPR	296-1938-1-ND	1.5W Stereo Audio Power Amp	24-HTSSOP	2.35	1.88	1.41
TPA0102PWPR	296-1938-2-ND	1.5W Stereo Audio Power Amp	24-HTSSOP	2444.00/2,000		
TPA0103PWP	296-1939-5-ND	1.75W 3-Channel Stereo Audio Power Amp	24-HTSSOP	2.48	1.98	1.49
TPA0103PWPR	296-1939-1-ND	1.75W 3-Channel Stereo Audio Power Amp	24-HTSSOP	2.48	1.98	1.49
TPA0103PWPR	296-1939-2-ND	1.75W 3-Channel Stereo Audio Power Amp	24-HTSSOP	2574.00/2,000		
TPA0112PWP	296-2450-5-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.48	1.98	1.54
TPA0112PWPR	296-2450-1-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.48	1.98	1.54
TPA0112PWPR	296-2450-2-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2806.00/2,000		
TPA0122PWP	296-2451-5-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.48	1.98	1.54
TPA0122PWPR	296-2451-1-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2.48	1.98	1.54
TPA0122PWPR	296-2451-2-ND	2W Stereo Audio Power Amp with Internal Gain Settings	24-HTSSOP	2806.00/2,000		
TPA0132PWP	296-2452-5-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.42	2.74	2.13
TPA0132PWPR	296-2452-1-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.42	2.74	2.13
TPA0132PWPR	296-2452-2-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3876.00/2,000		
TPA0142PWP	296-2453-5-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.42	2.74	2.13
TPA0142PWPR	296-2453-1-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3.42	2.74	2.13
TPA0142PWPR	296-2453-2-ND	2W Stereo Audio Power Amp with DC Volume Control	24-HTSSOP	3876.00/2,000		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPA0152PWP	296-2454-5-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4.05	3.24	2.52
TPA0152PWPR	296-2454-1-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4.05	3.24	2.52
TPA0152PWPR	296-2454-2-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4590.00/2,000		
TPA0162PWP	296-2455-5-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4.05	3.24	2.52
TPA0162PWPR	296-2455-1-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4.05	3.24	2.52
TPA0162PWPR	296-2455-2-ND	2W Stereo Audio Power Amp with Digital Volume Control	24-HTSSOP	4590.00/2,000		
TPA0172PWP	296-7000-5-ND	2W Stereo Audio Power Amp	24-HTSSOP	5.51	4.41	3.43
TPA0202PWP	296-1940-5-ND	2W Stereo Audio Power Amp	24-HTSSOP	3.22	2.58	2.01
TPA0202PWPR	296-1940-1-ND	2W Stereo Audio Power Amp	24-HTSSOP	3.22	2.58	2.01
TPA0202PWPR	296-1940-2-ND	2W Stereo Audio Power Amp	24-HTSSOP	3646.00/2,000		
TPA0211DGN	296-2456-5-ND	2W Mono Audio Power Amp	8-TSSOP	1.75	1.40	1.05
TPA0211DGNR	296-2456-1-ND	2W Mono Audio Power Amp	8-MSOP	1.75	1.40	1.05
TPA0211DGNR	296-2456-2-ND	2W Mono Audio Power Amp	8-MSOP	2240.00/2,500		
TPA0212PWP	296-2457-5-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.48	1.98	1.54
TPA0212PWPR	296-2457-1-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.48	1.98	1.54
TPA0212PWPR	296-2457-2-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2806.00/2,000		
TPA0213DGQR	296-7001-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.45	1.97	1.53
TPA0213DGQR	296-7001-2-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3432.50/2,500		
TPA0222PWP	296-2458-5-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.48	1.98	1.54
TPA0222PWPR	296-2458-1-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2.48	1.98	1.54
TPA0222PWPR	296-2458-2-ND	2W Stereo Audio Power Amp with 4 Select Gain Set/Mux Control	24-HTSSOP	2806.00/2,000		
TPA0223DGQR	296-7002-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.45	1.97	1.53
TPA0223DGQR	296-7002-2-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3432.50/2,500		
TPA0232PWP	296-2459-5-ND	2W Stereo Power Amplifier	24-HTSSOP	3.94	3.15	2.45
TPA0233DGQR	296-7003-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.59	2.07	1.61
TPA0233DGQR	296-7003-2-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3622.50/2,500		
TPA0242PWP	296-2460-5-ND	2W Stereo Power Amplifier	24-HTSSOP	3.60	2.88	2.24
TPA0243DGQR	296-7004-1-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	2.59	2.07	1.61
TPA0243DGQR	296-7004-2-ND	2W Mono Audio Power Amp with Headphone Drive	10-MSOP	3622.50/2,500		
TPA0252PWP	296-7005-5-ND	2W Stereo Audio Power Amp with Digital Volume Control/Memory	24-HTSSOP	4.05	3.24	2.52
TPA0253DGQR	296-7006-1-ND	1W Mono Audio Power Amp with Headphone Drive	10-MSOP	1.50	1.20	.90
TPA0253DGQR	296-7006-2-ND	1W Mono Audio Power Amp with Headphone Drive	10-MSOP	1920.00/2,500		
TPA0312PWP	296-10817-5-ND	2W Stereo Power Amplifier	24-HTSSOP	2.48	1.98	1.54
TPA1517DWP	296-7007-5-ND	6W Stereo Audio Power Amp	20-HSOP	2.50	2.00	1.50
TPA1517DWPR	296-7007-1-ND	6W Stereo Audio Power Amp	20-HSOP	2.25	1.80	1.40
TPA1517DWPR	296-7007-2-ND	6W Stereo Audio Power Amp	20-HSOP	2550.00/2,000		
TPA1517NE	296-7008-5-ND	6W Stereo Audio Power Amp	20-Dip	2.03	1.62	1.22
TPA2000D1GQCR	296-15638-1-ND	2W Class-D Filterless Mono Audio Power Amp	48-BGA	2.59	2.07	1.61
TPA2000D1GQCR	296-15638-2-ND	2W Class-D Filterless Mono Audio Power Amp	48-BGA	3622.50/2,500		
TPA2000D1PW	296-7009-5-ND	2W Class-D Filterless Mono Audio Power Amp	16-TSSOP	2.36	1.89	1.47
TPA2000D1TPWRQ1	296-18920-1-ND	2W Class-D Filterless Mono Audio Power Amp	16-TSSOP	3.26	2.61	2.03
TPA2000D1TPWRQ1	296-18920-2-ND	2W Class-D Filterless Mono Audio Power Amp	16-TSSOP	3698.00/2,000		
TPA2000D2PWP	296-2467-5-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3.26	2.61	2.03
TPA2000D2PWPR	296-2467-1-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3.26	2.61	2.03
TPA2000D2PWPR	296-2467-2-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3698.00/2,000		
TPA2000D2PWR	296-13382-1-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3.26	2.61	2.03
TPA2000D2PWR	296-13382-2-ND	2W Filterless Stereo Class-D Audio Power Amplifier	24-HTSSOP	3698.00/2,000		
TPA2000D4DAP	296-10830-5-ND	2W Class-D Filterless Audio Power Amp	32-HTSSOP	3.71	2.97	2.31
TPA2001D1PW	296-7010-5-ND	1W Class-D Filterless Mono Audio Power Amp	16-TSSOP	1.88	1.50	1.13
TPA2001D2PWP	296-2468-5-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	2.70	2.16	1.68
TPA2001D2PWPR	296-2468-1-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	2.70	2.16	1.68
TPA2001D2PWPR	296-2468-2-ND	1W Class-D Stereo Audio Power Amp	24-HTSSOP	3060.00/2,000		
TPA2005D1DGN	296-17691-5-ND	1.1W Class-D Audio Power Amp	8-MSOP	1.47	1.23	.98
TPA2005D1DRBR	296-15131-1-ND	1.1W Class-D Audio Power Amp	8-SON	1.47	1.23	.98
TPA2005D1DRBR	296-15131-2-ND	1.1W Class-D Audio Power Amp	8-SON	1911.00/3,000		
TPA2005D1GQYR	296-15073-1-ND	1.1W Mono Filter Free Class-D Audio Power Amp	15-VFBGA	1.47	1.23	.98
TPA2005D1GQYR	296-15073-2-ND	1.1W Mono Filter Free Class-D Audio Power Amp	15-VFBGA	1592.50/2,500		
TPA2005D1ZQYR	296-18921-1-ND	1.4W Mono Filter Free Class-D Audio Power Amp	15-BGA	1.47	1.23	.98
TPA2005D1ZQYR	296-18921-2-ND	1.4W Mono Filter Free Class-D Audio Power Amp	15-BGA	1592.50/2,500		
TPA2008D2EVM	296-18922-ND	Evaluation Module for TPA2008D2	—	62.78	—	—
TPA2008D2PWP	296-15339-5-ND	3W Filter Free Class-D Audio Power Amp with DC Volume Control	24-HTSSOP	4.05	3.24	2.52
TPA2008D2PWPR	296-17158-1-ND	3W Filter Free Class-D Audio Power Amp with DC Volume Control	24-TSSOP	4.05	3.24	2.52
TPA2008D2PWPR	296-17158-2-ND	3W Filter Free Class-D Audio Power Amp with DC Volume Control	24-TSSOP	4590.00/2,000		
TPA2010D1EVM	296-18923-ND	Evaluation Module for TPA2010D1	—	62.78	—	—
TPA2010D1YZFR	296-16648-1-ND	2.5W Audio Power Amp	9-WCSP	1.30	1.04	.78
TPA2010D1YZFR	296-16648-2-ND	2.5W Audio Power Amp	9-WCSP	1998.00/3,000		
TPA2010D1YZFT	296-16659-1-ND	2.5W Audio Power Amp	9-WCSP	1.55	1.24	.93
TPA2010D1YZFT	296-16659-2-ND	2.5W Audio Power Amp	9-WCSP	217.00/250		
TPA2012D2RTJR	296-17692-1-ND	2.1W Stereo Filter Free Class-D Audio Power Amp	20-QFN	2.38	1.90	1.43
TPA2012D2RTJR	296-17692-2-ND	2.1W Stereo Filter Free Class-D Audio Power Amp	20-QFN	3648.00/3,000		
TPA2012D2YZHR	296-18665-1-ND	2.1W Stereo Filter Free Class-D Audio Power Amp	16-DSBGA	2.36	1.89	1.47
TPA2012D2YZHR	296-18665-2-ND	2.1W Stereo Filter Free Class-D Audio Power Amp	16-DSBGA	3969.00/3,000		
TPA3001D1PWPR	296-14200-1-ND	20W Mono Class-D Audio Amp	24-TSSOP	5.00	4.00	3.38
TPA3001D1PWPR	296-14200-2-ND	20W Mono Class-D Audio Amp	24-TSSOP	6250.00/2,000		
TPA3002D2PHPR	296-14201-1-ND	9W Class-D Audio Amp with DC Volume Control	48-HTQFP	6.60	5.28	4.46
TPA3002D2PHPR	296-14201-2-ND	9W Class-D Audio Amp with DC Volume Control	48-HTQFP	4125.00/1,000		
TPA3003D2PFB	296-15037-ND	3W Class-D Audio Amp with DC Volume Control	48-TQFP	6.00	4.80	4.05
TPA3004D2PHPR	296-15038-1-ND	12W Class-D Audio Amp with DC Volume Control	48-HTQFP	6.50	5.20	4.39
TPA3004D2PHPR	296-15038-2-ND	12W Class-D Audio Amp with DC Volume Control	48-HTQFP	4063.00/1,000		
TPA3005D2EVM	296-18924-ND	Evaluation Module for TPA3005D2	—	62.78	—	—
TPA3005D2PHPR	296-17058-1-ND	6W Class-D Stereo Audio Power Amp	48-HTQFP	11.80	8.85	6.64
TPA3005D2PHPR	296-17058-2-ND	6W Class-D Stereo Audio Power Amp	48-HTQFP	3688.00/1,000		
TPA3007D1EVM	296-18925-ND	Evaluation Module for TPA3007D1	—	62.78	—	—
TPA3007D1PW	296-15792-5-ND	6.5W Audio Power Amp	24-TSSOP	4.39	3.51	2.73
TPA3008D2EVM	296-18926-ND	Evaluation Module for TPA3008D2	—	62.78	—	—
TPA3008D2PHP	296-17210-ND	10W Stereo Class-D Audio Power Amp	48-HTQFP	6.20	4.96	4.19
TPA3100D2PHPR	296-19603-1-ND	20W Stereo Class-D Audio Power Amp ***NEW!***	48-HTQFP	7.00	5.60	4.73
TPA3100D2PHPR	296-19603-2-ND	20W Stereo Class-D Audio Power Amp ***NEW!***	48-HTQFP	4375.00/1,000		
TPA3100D2RGZR	296-19423-1-ND	20W Stereo Class-D Audio Power Amp ***NEW!***	48-QFN	7.00	5.60	4.73
TPA3100D2RGZR	296-19423-2-ND	20W Stereo Class-D Audio Power Amp ***NEW!***	48-QFN	10850.00/2,500		
TPA3101D2PHP	296-19554-1-ND	10W Stereo Class-D Audio Power Amp ***NEW!***	48-HTQFP	6.20	4.96	4.19
TPA3101D2PHP	296-19554-2-ND	10W Stereo Class-D Audio Power Amp ***NEW!***	48-HTQFP	1007.50/250		
TPA3101D2RGZR	296-19424-1-ND	10W Stereo Class-D Audio Power Amp ***NEW!***	48-QFN	6.20	4.96	4.19
TPA3101D2RGZR	296-19424-2-ND	10W Stereo Class-D Audio Power Amp ***NEW!***	48-QFN	9610.00/2,500		
TPA3200D1DCP	296-18302-5-ND	20W Mono Digital Input Audio Amp	44-HTSSOP	5.90	4.72	3.99
TPA4411EVM	296-17385-ND	Evaluation Module for TPA4411	—	62.78	—	—
TPA4411MRTJT	296-18278-1-ND	80mW Capless Stereo Headphone Driver	20-QFN	1.90	1.52	1.14
TPA4411MRTJT	296-18278-2-ND	80mW Capless Stereo Headphone Driver	20-QFN	266.00/250		
TPA4411RTJT	296-17312-1-ND	80mW Capless Stereo Headphone Driver	20-TQFN	2.00	1.60	1.20
TPA4411RTJT	296-17312-2-ND	80mW Capless Stereo Headphone Driver	20-TQFN	280.00/250		
TPA4411YZHR	296-18666-1-ND	80mW Capless Stereo Headphone Driver	16-DSBGA	1.90	1.52	1.14
TPA4411YZHR	296-18666-2-ND	80mW Capless Stereo Headphone Driver	16-DSBGA	2919.00/3,000		
TPA4860D	296-7013-5-ND	1W Mono Audio Power Amp	16-SOIC	1.25	1.00	.75
TPA4861D	296-7014-5-ND	1W Mono Audio Power Amp	8-SOIC	1.25	1.00	.75
TPA4861DR	296-7014-1-ND	1W Mono Audio Power Amp	8-SOIC	1.25	1.00	.75
TPA4861DR	296-7014-2-ND	1W Mono Audio Power Amp	8-SOIC	1600.00/2,500		
TPA6010A4PWPR	296-7015-1-ND	2W Stereo Audio Power Amp w/Bass Boost/DC Volume Control	28-HTSSOP	5.06	4.05	3.15
TPA6010A4PWPR	296-7015-2-ND	2W Stereo Audio Power Amp w/Bass Boost/DC Volume Control	28-HTSSOP	5738.00/2,000		
TPA6011A4PWP	296-16919-5-ND	2W Stereo Audio Power Amp	24-TSSOP	2.57	2.06	1.60
TPA6011A4PWPR	296-12678-1-ND	2W Stereo Audio Power Amp	24-HTSSOP	2.57	2.06	1.60
TPA6011A4PWPR	296-12678-2-ND	2W Stereo Audio Power Amp	24-HTSSOP	2908.00/2,000		
TPA6017A2PWPR	296-12506-1-ND	2W Stereo Audio Power Amp	20-HTSSOP	2.08	1.66	1.25
TPA6017A2PWPR	296-12506-2-ND	2W Stereo Audio Power Amp	20-HTSSOP	2158.00/2,000		
TPA6020A2RGWR	296-18667-1-ND	2.8W Stereo Fully Diff. Audio Power Amp	20-QFN	2.59	2.07	1.61
TPA6020A2RGWR	296-18667-2-ND	2.8W Stereo Fully Diff. Audio Power Amp	20-QFN	4347.00/3,000		
TPA6021A4N	296-18249-5-ND	2W Stereo Audio Power Amp	20-Dip	2.10	1.68	1.26
TPA6030A4PWP	296-13866-5-ND	3W Stereo Audio Power Amp	28-HTSSOP	3.15	2.52	1.96
TPA6100A2DGKR	296-7016-1-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1.35	1.13	.90
TPA6100A2DGKR	296-7016-2-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1462.50/2,500		
TPA6100A2DR	296-7017-1-ND	50mW Ultra-LV Audio Power Amp	8-SOIC	1.05	.88	.70
TPA6100A2DR	296-7017-2-ND	50mW Ultra-LV Audio Power Amp	8-SOIC	1137.50/2,500		
TPA6101A2D	296-7018-5-ND	50mW Ultra-LV Audio Power Amp	8-SOIC	1.05	.88	.70
TPA6101A2DGKR	296-7019-1-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1.35	1.13	.90
TPA6101A2DGKR	296-7019-2-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1462.50/2,500		
TPA6102A2D	296-7020-5-ND	50mW Ultra-LV Audio Power Amp	8-SOIC	1.05	.88	.70
TPA6102A2DGKR	296-7021-1-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1.35	1.13	.90
TPA6102A2DGKR	296-7021-2-ND	50mW Ultra-LV Audio Power Amp	8-MSOP	1462.50/2,500		
TPA6110A2DGN	296-10843-5-ND	150mW Stereo Power Amp	8-MSOP	1.11	.93	.74
TPA6111A2DGN	296-10845-5-ND	150mW Stereo Power Amp	8-MSOP	1.11	.93	.74
TPA6111A2DR	296-10846-1-ND	150mW Stereo Power Amp	8-SOIC	1.33	1.06	.80

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

TEXAS INSTRUMENTS AMPLIFIERS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPA6111A2DR	296-10846-2-ND	150mW Stereo Power Amp	8-SOIC	910.00/2,500		
TPA6112A2DGQR	296-10848-1-ND	150mW Stereo Power Amp	10-HTSSOP	1.11	.93	.74
TPA6112A2DGQR	296-10848-2-ND	150mW Stereo Power Amp	10-HTSSOP	1202.50/2,500		
TPA6120A2DWP	296-16920-5-ND	High Fidelity Headphone Amp	20-SOIC	4.28	3.42	2.66
TPA6120A2EVM	296-18927-ND	Evaluation Module for TPA6120A2	—	126.84	—	—
TPA6203A1DGNR	296-19604-1-ND	1.25W Mono Diff. Audio Power Amp ***NEW!***	8-MSOP	1.29	1.08	.86
TPA6203A1DGNR	296-19604-2-ND	1.25W Mono Diff. Audio Power Amp ***NEW!***	8-MSOP	1397.50/2,500		
TPA6203A1GQVR	296-12753-1-ND	1.25W Mono Diff. Audio Power Amp	8-BGA	1.29	1.08	.86
TPA6203A1GQVR	296-12753-2-ND	1.25W Mono Diff. Audio Power Amp	8-BGA	1397.50/2,500		
TPA6203A1ZQVR	296-17902-1-ND	1.25W Mono Diff. Audio Power Amp	8-BGA	1.29	1.08	.86
TPA6203A1ZQVR	296-17902-2-ND	1.25W Mono Diff. Audio Power Amp	8-BGA	1397.50/2,500		
TPA6204A1DRBR	296-17059-1-ND	1.7W Diff. Audio Power Amp	8-QFN	1.92	1.44	1.08
TPA6204A1DRBR	296-17059-2-ND	1.7W Diff. Audio Power Amp	8-QFN	1842.00/3,000		
TPA6204A1EVM	296-18928-ND	Evaluation Module for TPA6204A1	—	62.78	—	—
TPA6211A1DGN	296-15325-5-ND	3.1W Mono Diff. Audio Power Amp	8-HTSSOP	1.30	1.04	.78
TPA6211A1DRBR	296-17101-1-ND	3.1W Mono Diff. Audio Power Amp	8-QFN	1.30	1.04	.78
TPA6211A1DRBR	296-17101-2-ND	3.1W Mono Diff. Audio Power Amp	8-QFN	1998.00/3,000		
TPA6211A1EVM	296-18929-ND	Evaluation Module for TPA6211A1	—	62.78	—	—
TRF1123IRTMR	296-18253-1-ND	2.1GHz to 2.7GHz, 1W Power Amp	32-QFN	9.50	7.60	6.42
TRF1123IRTMR	296-18253-2-ND	2.1GHz to 2.7GHz, 1W Power Amp	32-QFN	17670.00/3,000		
TRF1223IRTMR	296-18254-1-ND	3.3GHz to 3.8GHz, 1W Power Amp	32-QFN	8.33	7.50	6.65
TRF1223IRTMR	296-18254-2-ND	3.3GHz to 3.8GHz, 1W Power Amp	32-QFN	18225.00/3,000		
UA741CD	296-11106-5-ND	General Purpose Op Amp	8-SOIC	.40	.32	.24
UA741CDR	296-15051-1-ND	General Purpose Op Amp	8-SOIC	.40	.32	.24
UA741CDR	296-15051-2-ND	General Purpose Op Amp	8-SOIC	270.00/2,500		
UA741CP	296-11107-5-ND	General Purpose Op Amp	8-Dip	.40	.32	.24
UA747CN	296-12963-5-ND	Dual General Purpose Op Amp	14-Dip	.96	.80	.64
UC3178QP	296-12754-5-ND	Full Bridge Power Amp	28-PLCC	5.90	4.72	3.99
UC3901D	296-11338-5-ND	Isolated Feedback Generator	14-SOIC	4.61	3.69	2.87
UC3901N	296-11339-5-ND	Isolated Feedback Generator	14-Dip	4.61	3.69	2.87
VCA810AID	296-17491-5-ND	High Gain Adjust Range, Wideband, Voltage Controlled Amp	8-SOIC	12.50	11.25	9.98
VCA810ID	296-17317-5-ND	High Gain Adjust Range, Wideband, Voltage Controlled Amp	8-SOIC	9.58	8.63	7.65
VCA2611Y/250	296-15778-1-ND	Dual Variable Gain Amp with Low Noise Preamp	48-TQFP	17.03	15.89	14.76
VCA2611Y/250	296-15778-2-ND	Dual Variable Gain Amp with Low Noise Preamp	48-TQFP	3617.75/250		
VCA2612Y/250	VCA2612YCT-ND	Dual Low Noise Variable Gain Amp	48-TQFP	20.63	19.25	17.88
VCA2612Y/250	VCA2612YTR-ND	Dual Low Noise Variable Gain Amp	48-TQFP	4382.75/250		
VCA2613Y/250	VCA2613YCT-ND	Dual Low Noise Variable Gain Amp	48-TQFP	16.95	15.82	14.69
VCA2613Y/250	VCA2613YTR-ND	Dual Low Noise Variable Gain Amp	48-TQFP	3602.00/250		
VCA2614Y/250	VCA2614Y/250CT-ND	Dual Variable Gain Amp with Input Buffer	32-TQFP	15.41	13.88	12.31
VCA2614Y/250	VCA2614Y/250TR-ND	Dual Variable Gain Amp with Input Buffer	32-TQFP	2948.44/250		
VCA2615RGZT	296-19304-1-ND	Dual Low Noise Variable Gain Amp with Preamp	48-QFN	14.83	13.35	11.84
VCA2615RGZT	296-19304-2-ND	Dual Low Noise Variable Gain Amp with Preamp	48-QFN	2837.00/250		
VCA2616YT	VCA2616YT-ND	Dual Variable Gain Amp with Low Noise Preamp	48-TQFP	17.03	15.89	14.76
VCA2617RHBT	296-18347-1-ND	Dual Variable Gain Amp	32-QFN	14.58	13.13	11.64
VCA2617RHBT	296-18347-2-ND	Dual Variable Gain Amp	32-QFN	2789.00/250		
VCA2618YT	296-14062-1-ND	Dual Variable Gain Amp with Input Buffer	32-TQFP	15.41	13.88	12.31
VCA2618YT	296-14062-2-ND	Dual Variable Gain Amp with Input Buffer	32-TQFP	2948.50/250		
VCA2619YT	296-19047-ND	Dual Variable Gain Amp	32-TQFP	15.41	13.88	12.31
VCA8613YT	296-15991-5-ND	8-Channel Variable Gain Amp	64-HVQFP	38.10	35.56	33.02
SBAT001	LI-501-ND	Linear & Mixed Signal Products Data Book		4.94	—	—

TEXAS INSTRUMENTS AUDIO VOLUME CONTROL

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PGA2310PA	296-13113-5-ND	Stereo Audio Volume Control	16-Dip	16.58	14.93	13.24
PGA4311U	PGA4311U-ND	4-Channel Audio Volume Control	28-SOIC	9.91	8.93	7.92
PGA4311UA	PGA4311UA-ND	4-Channel Audio Volume Control	28-SOIC	11.75	10.58	9.38

TEXAS INSTRUMENTS BUS SOLUTIONS

Clock Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CDC111FN	296-6675-5-ND	3.3V Differential Clock Driver	28-PLCC	12.83	11.55	10.25
CDC203DW	296-6676-5-ND	3.3V, 6-Bit Inverter/Clock Driver	20-SOIC	6.90	5.52	4.66
CDC203DWR	296-6676-1-ND	3.3V, 6-Bit Inverter/Clock Driver	20-SOIC	6.90	5.52	4.66
CDC203DWR	296-6676-2-ND	3.3V, 6-Bit Inverter/Clock Driver	20-SOIC	8626.00/2,000		
CDC204DW	296-6677-5-ND	6-Bit Inverter/Clock Driver	20-SOIC	6.00	4.80	4.05
CDC204DWR	296-6677-1-ND	6-Bit Inverter/Clock Driver	20-SOIC	6.00	4.80	4.05
CDC204DWR	296-6677-2-ND	6-Bit Inverter/Clock Driver	20-SOIC	7500.00/2,000		
CDC208DW	296-6678-5-ND	Dual 1-to-4 Clock Driver	20-SOIC	8.20	6.56	5.54
CDC318ADL	296-1383-5-ND	1-18 Line Clock Driver	48-SSOP	3.11	2.49	1.94
CDC319DB	296-17640-5-ND	1-10 Line Clock Driver	28-SSOP	3.22	2.58	2.01
CDC328AD	296-6693-5-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOIC	7.10	5.68	4.80
CDC328ADR	296-6693-1-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOIC	7.10	5.68	4.80
CDC328ADR	296-6693-2-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOIC	11005.00/2,500		
CDC328ADBR	296-6694-1-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SSOP	7.10	5.68	4.80
CDC328ADBR	296-6694-2-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SSOP	8876.00/2,000		
CDC329AD	296-6696-5-ND	1-6 Clock Dvr. w/Selectable Polarity	16-SOIC	6.20	4.96	4.19
CDC337DW	296-6697-5-ND	1-8 Clock Driver with Clear	20-SOIC	8.40	6.72	5.67
CDC339DB	296-6698-5-ND	1-8 Clock Driver with Clear	20-SSOP	7.00	5.60	4.73
CDC339DBR	296-6698-1-ND	1-8 Clock Driver with Clear	20-SSOP	7.00	5.60	4.73
CDC339DBR	296-6698-2-ND	1-8 Clock Driver with Clear	20-SSOP	8750.00/2,000		
CDC339DW	296-6699-5-ND	1-8 Clock Driver with Clear	20-SOIC	7.00	5.60	4.73
CDC340DW	296-6700-5-ND	1-8 Clock Driver with Tight AC Spec.	20-SOIC	8.40	6.72	5.67
CDC341DW	296-6701-5-ND	1-8 Clock Driver with Tight AC Spec.	20-SOIC	9.00	7.20	6.08
CDC351DBR	296-6702-1-ND	Tri-State 3.3V Clock Driver	24-SSOP	9.41	8.48	7.52
CDC351DBR	296-6702-2-ND	Tri-State 3.3V Clock Driver	24-SSOP	13956.00/2,000		
CDC351DW	296-6703-5-ND	Tri-State 3.3V Clock Driver	24-SOIC	9.41	8.48	7.52
CDC351IDB	296-15849-5-ND	Tri-State 3.3V Clock Driver	24-SSOP	10.83	9.75	8.65
CDC351IDW	296-15850-5-ND	Tri-State 3.3V Clock Driver	24-SOIC	10.83	9.75	8.65
CDC391D	296-6704-5-ND	1-6 Clock Driver w/Selectable Polarity	16-SOIC	6.80	5.44	4.59
CDC509PWR	296-6705-1-ND	3.3V PLL Clock Driver	24-TSSOP	5.40	4.32	3.36
CDC509PWR	296-6705-2-ND	3.3V PLL Clock Driver	24-TSSOP	6120.00/2,000		
CDC536DB	296-6707-5-ND	3.3V PLL Clock Driver	28-SSOP	4.50	3.60	2.80
CDC536DBR	296-6707-1-ND	3.3V PLL Clock Driver	28-SSOP	4.50	3.60	2.80
CDC536DBR	296-6707-2-ND	3.3V PLL Clock Driver	28-SSOP	5100.00/2,000		
CDC582PAH	296-6708-5-ND	3.3V PLL Clock Driver	52-TQFP	8.33	7.50	6.65
CDC586PAH	296-6709-5-ND	Tri-State 3.3V PLL Clock Driver	52-TQFP	9.33	8.40	7.45
CDC857-2DGG	296-14163-5-ND	2.5V PLL Clock Driver	48-TSSOP	9.48	8.54	7.57
CDC924DL	296-6714-5-ND	133MHz Clock Synthesizer/Driver	56-SSOP	3.85	3.08	2.40
CDC925DL	296-6715-5-ND	133MHz Clock Synthesizer/Driver	56-SSOP	5.45	4.36	3.39
CDC930DL	296-15611-5-ND	133MHz Diff. Clock Syn./Driver	56-SSOP	2.68	2.15	1.67
CDC950DGG	296-9435-5-ND	133MHz Diff. Clock Syn./Driver	48-TSSOP	2.79	2.24	1.74
CDC960DL	296-12725-5-ND	200MHz Clock Synthesizer/Driver	48-SSOP	3.74	2.99	2.33
CDC2536DB	296-6688-5-ND	Tri-State 3.3V PLL Clock Driver	28-SSOP	4.50	3.60	2.80
CDC2351DB	296-12628-5-ND	Tri-St. 3.3V, 1-10 Line Clock Driver	24-SSOP	8.66	7.80	6.92
CDC2351DW	296-6680-5-ND	Tri-St. 3.3V, 1-10 Line Clock Driver	24-SOIC	8.66	7.80	6.92
CDC2351QDB	296-9434-5-ND	Tri-State 1-10 Buffer Clock Driver	24-SSOP	10.16	9.15	8.12
CDC2509APWR	296-6681-1-ND	Tri-State 3.3V PLL Clock Driver	24-TSSOP	4.59	3.68	2.86
CDC2509APWR	296-6681-2-ND	Tri-State 3.3V PLL Clock Driver	24-TSSOP	5202.00/2,000		
CDC2509CPW	296-15080-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.59	3.68	2.86
CDC2509CPWR	296-6683-1-ND	3.3V PLL Clock Driver	24-TSSOP	4.59	3.68	2.86
CDC2509CPWR	296-6683-2-ND	3.3V PLL Clock Driver	24-TSSOP	5202.00/2,000		
CDC2510APWR	296-6684-1-ND	3.3V PLL Clock Driver	24-TSSOP	11.60	9.28	7.83
CDC2510APWR	296-6684-2-ND	3.3V PLL Clock Driver	24-TSSOP	14326.00/2,000		
CDC2510BPWR	296-6685-1-ND	3.3V PLL Clock Driver	28-TSSOP	11.60	9.28	7.83
CDC2510BPWR	296-6685-2-ND	3.3V PLL Clock Driver	28-TSSOP	14326.00/2,000		
CDC2510CPW	296-6686-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.59	3.68	2.86
CDC2510CPWR	296-6686-1-ND	3.3V PLL Clock Driver	24-TSSOP	4.59	3.68	2.86
CDC2510CPWR	296-6686-2-ND	3.3V PLL Clock Driver	24-TSSOP	5202.00/2,000		
CDC2510PWR	296-13641-1-ND	3.3V PLL Clock Driver	24-TSSOP	7.22	5.78	4.88
CDC2510PWR	296-13641-2-ND	3.3V PLL Clock Driver	24-TSSOP	9026.00/2,000		
CDC2516DGGR	296-6687-1-ND	Tri-State 3.3V PLL Clock Driver	48-TSSOP	5.52	4.42	3.73
CDC2516DGGR	296-6687-2-ND	Tri-State 3.3V PLL Clock Driver	48-TSSOP	6900.00/2,000		
CDC2582PAH	296-6689-5-ND	3.3V Clock Driver	28-QFP	8.33	7.50	6.65
CDC2586PAH	296-6690-5-ND	Tri-State 3.3V PLL Clock Driver	52-TQFP	9.33	8.40	7.45
CDC5801ADBQR	296-19401-1-ND	Low Jitter Clock Multipler/ Divider ***NEW!***	24-SSOP	5.90	4.72	3.99
CDC5801ADBQR	296-19401-2-ND	Low Jitter Clock Multipler/ Divider ***NEW!***	24-SSOP	9145.00/2,500		
CDC5801DBQ	296-13774-5-ND	Low Jitter Clock Multiplier/Divider	24-SSOP	5.96	4.77	4.03
CDC5806PW	296-17107-5-ND	Three PLLs Based Clock Generator	20-TSSOP	4.84	3.87	3.01
CDC7005-EVM	296-17044-ND	Evaluation Module for CDC7005 Series	—	254.96	—	—
CDC7005GVAT	296-17399-1-ND	3.3V High PerformanceClock Synthesizer/ Jitter Cleaner	64-BGA	15.00	14.00	13.00
CDC7005GVAT	296-17399-2-ND	3.3V High PerformanceClock Synthesizer/ Jitter Cleaner	64-BGA	3187.50/250		
CDC7005RGZT	296-18220-1-ND	3.3V High Performance Clock Synthesizer/ Jitter Cleaner	48-QFN	16.50	15.40	14.30
CDC7005RGZT	296-18220-2-ND	3.3V High Performance Clock Synthesizer/ Jitter Cleaner	48-QFN	3506.25/250		
CDC7005ZVAT	296-15744-1-ND	3.3V High PerformanceClock Synthesizer/ Jitter Cleaner	64-BGA	16.50	15.40	14.30
CDC7005ZVAT	296-15744-2-ND	3.3V High PerformanceClock Synthesizer/ Jitter Cleaner	64-BGA	3506.25/250		
CDCF2509PW	296-15356-5-ND	3.3V PLL Clock Driver	24-TSSOP	7.12	5.70	4.81
CDCF2510PW	296-6718-5-ND	3.3V PLL Clock Driver	24-TSSOP	7.12	5.70	4.81
CDCF2510PWR	296-6718-1-ND	3.3V PLL Clock Driver	24-TSSOP	7.12	5.70	4.81
CDCF2510PWR	296-6718-2-ND	3.3V PLL Clock Driver	24-TSSOP	8900.00/2,000		
CDCF5801DBQ	296-18405-5-ND	Clock Multiplier with Delay Control and Phase Alignment	24-SSOP	5.96	4.77	4.03
CDCFR83ADBQ	296-18599-5-ND	533MHz Direct Rambus™ Clock Generator	24-SSOP	4.28	3.42	2.66
CDCFR83DBQ	296-12311-5-ND	533MHz Direct Rambus™ Clock Generator	24-SSOP	3.82	3.44	2.68
CDCLVD110VF	296-13712-5-ND	Programmable Low Voltage 1:10 LVDS Clock Driver	32-LQFP	9.35	8.42	7.47
CDCLVP110VF	296-15357-ND	LV 1:10 LVPECL/HSTL with Selectable Input Clock Driver	32-LQFP	9.25	8.33	7.39
CDCM1802RGTT	296-17045-1-ND	Clock Buffer with Prog. Divider	16-QFN	8.30	6.64	5.61
CDCM1802RGTT	296-17045-2-ND	Clock Buffer with Prog. Divider	16-QFN	1348.75/250		
CDCM1804RGET	296-18094-1-ND	1:3 LVPECL Clock Buffer Plus Additional LVCMOS Output and Programmable Divider	24-QFN	10.08	9.08	8.05
CDCM1804RGET	296-18094-2-ND	1:3 LVPECL Clock Buffer Plus Additional LVCMOS Output and Programmable Divider	24-QFN	1928.50/250		
CDCM1804RTHT	296-17928-1-ND	1:3 LVPECL Clock Buffer Plus Additional LVCMOS Output and Programmable Divider	24-QFN	10.08	9.08	8.05
CDCM1804RTHT	296-17928-2-ND	1:3 LVPECL Clock Buffer Plus Additional LVCMOS Output and Programmable Divider	24-QFN	1928.50/250		
CDCM7005RGZT	296-18208-ND	3.3V High Performance Clock Synthesizer/Jitter Cleaner	48-QFN	17.78	16.59	15.41
CDCM7005ZVAT	296-18221-1-ND	3.3V High Performance Clock Synthesizer/Jitter Cleaner	64-BGA	17.78	16.59	15.41
CDCM7005ZVAT	296-18221-2-ND	3.3V High Performance Clock Synthesizer/Jitter Cleaner	64-BGA	3777.25/250		
CDCP1803RGET	296-18095-1-ND	1:3 LVPECL Clock Buffer with Programmable Divider	24-QFN	7.00	5.60	4.73
CDCP1803RGET	296-18095-2-ND	1:3 LVPECL Clock Buffer with Programmable Divider	24-QFN	1137.50/250		
CDCP1803RTHT	296-17880-1-ND	1:3 LVPECL Clock Buffer with Programmable Divider	24-QFN	7.00	5.60	4.73
CDCP1803RTHT	296-17880-2-ND	1:3 LVPECL Clock Buffer with Programmable Divider	24-QFN	1137.50/250		
CDCR61APW	296-14633-5-ND	Rambus™ Clock Generator	16-TSSOP	3.02	2.42	1.88
CDCR81DBQR	296-6720-1-ND	Direct Rambus™ Clock Generator	24-SSOP	4.70	3.77	2.93
CDCR81DBQR	296-6720-2-ND	Direct Rambus™ Clock Generator	24-SSOP	6582.50/2,500		
CDCR83ADBQ	296-18600-5-ND	400MHz Direct Rambus™ Clock Generator	24-SSOP	3.74	2.99	2.33

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CDCR83DBQ	296-12165-5-ND	400MHz Direct Rambus™ Clock Generator	24-SSOP	3.74	2.99	2.33
CDCU877AGQLT	296-16826-1-ND	1.8V PLL Clock Driver	52-BGA	5.70	4.56	3.85
CDCU877AGQLT	296-16826-2-ND	1.8V PLL Clock Driver	52-BGA	926.25/250		
CDCU877ARHAT	296-19539-1-ND	1.8V PLL Clock Driver ***NEW!***	40-QFN	5.70	4.56	3.85
CDCU877ARHAT	296-19539-2-ND	1.8V PLL Clock Driver ***NEW!***	40-QFN	926.25/250		
CDCU877ARTBT	296-16827-1-ND	1.8V PLL Clock Driver	40-MLF	5.70	4.56	3.85
CDCU877ARTBT	296-16827-2-ND	1.8V PLL Clock Driver	40-MLF	926.25/250		
CDCU877AZQLT	296-16828-1-ND	1.8V PLL Clock Driver	52-BGA	5.70	4.56	3.85
CDCU877AZQLT	296-16828-2-ND	1.8V PLL Clock Driver	52-BGA	926.25/250		
CDCU877BZQLT	296-18287-1-ND	1.8V PLL Clock Driver	52-BGA	5.70	4.56	3.85
CDCU877BZQLT	296-18287-2-ND	1.8V PLL Clock Driver	52-BGA	926.25/250		
CDCU877GQLT	296-16758-1-ND	1.8V PLL Clock Driver	52-BGA	5.70	4.56	3.85
CDCU877GQLT	296-16758-2-ND	1.8V PLL Clock Driver	52-BGA	926.25/250		
CDCU877RHAT	296-18645-1-ND	1.8V PLL Clock Driver	40-MLF	5.70	4.56	3.85
CDCU877RHAT	296-18645-2-ND	1.8V PLL Clock Driver	40-MLF	926.25/250		
CDCU877RTBT	296-16759-1-ND	1.8V PLL Clock Driver	40-MLF	5.70	4.56	3.85
CDCU877RTBT	296-16759-2-ND	1.8V PLL Clock Driver	40-MLF	926.25/250		
CDCU877ZQLT	296-16760-1-ND	1.8V PLL Clock Driver	52-BGA	5.70	4.56	3.85
CDCU877ZQLT	296-16760-2-ND	1.8V PLL Clock Driver	52-BGA	926.25/250		
CDCV304PW	296-12420-5-ND	140MHz GP PCI-X Clock Buffer	8-TSSOP	2.36	1.89	1.47
CDCV850DGG	296-6721-5-ND	2.5V PLL Clock Driver	48-TSSOP	3.31	2.65	2.06
CDCV850DGGR	296-6721-1-ND	2.5V PLL Clock Driver	48-TSSOP	3.31	2.65	2.06
CDCV850DGGR	296-6721-2-ND	2.5V PLL Clock Driver	48-TSSOP	3748.00/2,000		
CDCV850IDGG	296-14164-5-ND	2.5V PLL Clock Driver with 2 Line Serial Interface	48-TSSOP	3.85	3.08	2.40
CDCV855IPW	296-14305-5-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	2.93	2.34	1.82
CDCV855PW	296-12200-5-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	2.59	2.07	1.61
CDCV855PWR	296-12200-1-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	2.59	2.07	1.61
CDCV855PWR	296-12200-2-ND	2.5V, 1:4 PLL Clock Driver	28-TSSOP	2932.00/2,000		
CDCV857ADGG	296-11575-5-ND	2.5V PLL Clock Driver	48-TSSOP	5.36	4.29	3.34
CDCV857ADGGR	296-11575-1-ND	2.5V PLL Clock Driver	48-TSSOP	5.36	4.29	3.34
CDCV857ADGGR	296-11575-2-ND	2.5V PLL Clock Driver	48-TSSOP	6070.00/2,000		
CDCV857AGQLR	296-13775-1-ND	2.5V PLL Clock Driver	56-VFBGA	5.87	4.70	3.66
CDCV857AGQLR	296-13775-2-ND	2.5V PLL Clock Driver	56-VFBGA	3263.00/1,000		
CDCV857BDGG	296-14165-5-ND	2.5V PLL Clock Driver	48-TSSOP	5.98	4.79	4.04
CDCV857BGQLR	296-15358-1-ND	2.5V PLL Clock Driver	56-VFBGA	6.46	5.17	4.37
CDCV857BGQLR	296-15358-2-ND	2.5V PLL Clock Driver	56-VFBGA	4038.00/1,000		
CDCV857BIDGG	296-13857-5-ND	2.5V PLL Clock Driver	48-TSSOP	6.94	5.56	4.69
CDCV857DGGR	296-6722-1-ND	2.5V PLL Clock Driver	48-TSSOP	7.04	5.64	4.76
CDCV857DGGR	296-6722-2-ND	2.5V PLL Clock Driver	48-TSSOP	8800.00/2,000		
CDCVF111FN	296-12421-5-ND	1:9 Diff. LVPECL Clock Driver	28-PLCC	11.63	10.47	9.29
CDCVF310PW	296-17358-ND	2.5V-3.3V High-Performance Clock Buffer	24-TSSOP	4.61	3.69	2.87
CDCVF857DGG	296-16634-5-ND	2.5V PLL Clock Driver	48-TSSOP	5.98	4.79	4.04
CDCVF857GQLR	296-16989-1-ND	2.5V PLL Clock Driver	56-BGA	6.46	5.17	4.37
CDCVF857GQLR	296-16989-2-ND	2.5V PLL Clock Driver	56-BGA	4038.00/1,000		
CDCVF857RHAT	296-18288-1-ND	2.5V PLL Clock Driver	40-MLF	7.12	5.70	4.81
CDCVF857RHAT	296-18288-2-ND	2.5V PLL Clock Driver	40-MLF	1157.00/250		
CDCVF857RTBT	296-16635-1-ND	2.5V PLL Clock Driver	40-MLF	7.12	5.70	4.81
CDCVF857RTBT	296-16635-2-ND	2.5V PLL Clock Driver	40-MLF	1157.00/250		
CDCVF2310PW	296-12019-5-ND	2.5-3.3V, 1:10 General Purpose High Power Clock Buffer	24-TSSOP	4.61	3.69	2.87
CDCVF2310PWR	296-12019-1-ND	2.5-3.3V, 1:10 General Purpose High Power Clock Buffer	24-TSSOP	4.61	3.69	2.87
CDCVF2310PWR	296-12019-2-ND	2.5-3.3V, 1:10 General Purpose High Power Clock Buffer	24-TSSOP	5228.00/2,000		
CDCVF2505D	296-6723-5-ND	3.3V PLL Clock Driver	8-SOIC	1.78	1.42	1.07
CDCVF2505PW	296-9437-5-ND	3.3V PLL Clock Driver	8-TSSOP	1.78	1.42	1.07
CDCVF2509APW	296-18406-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.82	3.86	3.00
CDCVF2509PW	296-13070-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.82	3.86	3.00
CDCVF2509PWR	296-6724-1-ND	3.3V PLL Clock Driver	24-TSSOP	4.82	3.86	3.00
CDCVF2509PWR	296-6724-2-ND	3.3V PLL Clock Driver	24-TSSOP	5458.00/2,000		
CDCVF2510APW	296-18407-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.82	3.86	3.00
CDCVF2510PW	296-6725-5-ND	3.3V PLL Clock Driver	24-TSSOP	4.82	3.86	3.00
CDCVF2510PWR	296-6725-1-ND	3.3V PLL Clock Driver	24-TSSOP	4.82	3.86	3.00
CDCVF2510PWR	296-6725-2-ND	3.3V PLL Clock Driver	24-TSSOP	5458.00/2,000		
CDCVF25081D	296-12270-5-ND	3.3V, 1:8 PLL Clock Driver	16-SOIC	2.68	2.15	1.67
CDCVF25081DR	296-12270-1-ND	3.3V, 1:8 PLL Clock Driver	16-SOIC	2.68	2.15	1.67
CDCVF25081DR	296-12270-2-ND	3.3V, 1:8 PLL Clock Driver	16-SOIC	3747.50/2,500		
CDCVF25081PW	296-12271-5-ND	3.3V, 1:8 PLL Clock Driver	16-TSSOP	2.68	2.15	1.67
CDCVF25081PWR	296-12271-1-ND	3.3V, 1:8 PLL Clock Driver	16-TSSOP	2.68	2.15	1.67
CDCVF25081PWR	296-12271-2-ND	3.3V, 1:8 PLL Clock Driver	16-TSSOP	3034.00/2,000		
CDCVF25084PW	296-15081-5-ND	3.3V, 1:8 Zero Delay (PLL)x4 Clock Multiplier	16-TSSOP	5.51	4.41	3.43
PLL1700E	PLL1700E-ND	Audio System Multiclock Generator (PLL)	20-SSOP	4.59	3.68	2.86
PLL1705DBQ	296-13605-5-ND	3.3V Dual PLL Multiclock Generator	20-SSOP	2.93	2.34	1.82
PLL1706DBQ	296-13606-5-ND	3.3V Dual PLL Multiclock Generator	20-SSOP	2.93	2.34	1.82
PLL1707DBQ	296-14182-5-ND	3.3V Dual PLL Multiclock Generator	20-SSOP	3.15	2.52	1.96
PLL1708DBQ	296-14183-5-ND	3.3V Dual PLL Multiclock Generator	20-SSOP	3.15	2.52	1.96
TB5D1MD	296-15747-5-ND	Quad Differential PECL Driver	16-SOIC	12.00	10.80	9.58
TB5D1MDW	296-15748-5-ND	Quad Differential PECL Driver	16-SOIC	12.00	10.80	9.58
TB5D2HD	296-15749-5-ND	Quad Differential PECL Driver	16-SOIC	12.00	10.80	9.58
TB5D2HDW	296-15750-5-ND	Quad Differential PECL Driver	16-SOIC	12.00	10.80	9.58
TB5R3D	296-19322-5-ND	Quad Diff. PECL Receiver ***NEW!***	16-SOIC	14.41	12.98	11.51
TB5R3DW	296-19323-5-ND	Quad Diff. PECL Receiver ***NEW!***	16-SOIC	14.41	12.98	11.51

IEEE1394

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TSB12LV01BIPZTEP	296-18175-ND	IEEE 1394-1995 High Speed, Serial Bus Link Layer Controller	100-PQFP	26.20	24.46	22.72
TSB12LV01BPZT	296-11062-ND	High Performance Link Layer	100-TQFP	14.88	13.40	11.88
TSB12LV26PZT	296-11065-ND	Open Host Controller	100-TQFP	7.96	6.37	5.38
TSB12LV32IPZ	296-11066-ND	General Purpose Link Layer Controller	100-LQFP	9.41	8.48	7.52
TSB12LV32PZ	296-11067-ND	General Purp. Link Layer Controller	100-LQFP	8.61	7.76	6.88
TSB14AA1AIPFB	296-15048-ND	3.3V IEEE 1394-1995 Backplane PHY	48-TQFP	14.24	12.83	11.38
TSB14AA1APFB	296-14214-5-ND	3.3V IEEE 1394-1995 Backplane PHY	48-TQFP	9.83	8.85	7.85
TSB14AA1TPFB	296-13421-ND	3.3V IEEE 1394-1995 Backplane PHY	48-TQFP	10.83	9.75	8.65
TSB15LV01IPFC	296-15678-ND	High Performance Link Layer	80-TQFP	9.06	7.25	6.12
TSB41AB1GQE	296-15735-ND	One-Port Cable Transceiver/Arbiter	80-VFBGA	3.38	2.70	2.10
TSB41AB1PAP	296-11074-ND	One-Port Cable Transceiver/Arbiter	64-HTQFP	3.38	2.70	2.10
TSB41AB1PHP	296-11075-ND	One-Port Cable Transceiver/Arbiter	48-HTQFP	3.38	2.70	2.10
TSB41AB2P AP	296-11076-ND	Two-Port Cable Transceiver/Arbiter	64-HTQFP	4.16	3.33	2.59
TSB41AB1ZQE-64	296-19564-ND 296-19564-ND	IEEE 1394a-2000 One-Port Cable Transceiver/Arbiter ***NEW!***	64-BGA	3.38	2.70	2.10
TSB41AB3IPFP	296-13422-ND	IEEE 1394a-2000 Three-Port Cable Transceiver/Arbiter	80-HTQFP	6.60	5.28	4.46
TSB41AB3PFP	296-11077-ND	IEEE 1394a-2000 Three-Port Cable Transceiver/Arbiter	80-HTQFP	6.00	4.80	4.05
TSB41BA3ATPFPEP	296-18178-ND	IEEE 1394b Three-Port Cable Transceiver/Arbiter	80-HTQFP	49.46	46.16	42.87
TSB41BA3BPFP	296-19370-ND	IEEE 1394b Three-Port Cable Transceiver/Arbiter ***NEW!***	80-HTQFP	10.83	9.75	8.65
TSB41LV04APFP	296-11078-ND	Four-Port Cable Transceiver/Arbiter	80-HTQFP	10.83	9.75	8.65
TSB41LV06APZP	296-11079-ND	Six-Port Cable Transceiver/Arbiter	100-HTQFP	10.66	9.60	8.52
TSB42AC3PZT	296-16848-ND	1394 Link Layer Controller	100-TQFP	10.83	9.75	8.65
TSB42AA9IPZT	296-13618-5-ND	StorageLynx 1394 Link Layer Controller for ATA/ATAPI Storage Products	100-TQFP	9.83	8.85	7.85
TSB43AB21AIPDTEP	296-18179-ND	Integrated 1394a-2000 OHCI PHY/Link-Layer Controller	128-TQFP	18.77	17.52	16.27
TSB43AB21APDT	296-12698-ND	Phy/Link-Layer Controller	128-TQFP	6.16	4.93	4.16
TSB43AB22APDT	296-12569-ND	1394a Link Layer Controller	128-TQFP	6.50	5.20	4.39
TSB43AB23IPDTEP	296-19531-ND	Integrated 1394a-2000 OHCI PHY/Link Layer Controller ***NEW!***	128-TQFP	20.22	18.88	17.53
TSB43AB23PDT	296-12408-ND	IEEE-1394 Controller	128-TQFP	7.26	5.81	4.91
TSB43AB23PDTG4	296-18073-ND	IEEE 1394a-2000 OHCI PHY/Link Layer Controller	128-TQFP	7.26	5.81	4.91
TSB43AB23PGE	296-14328-ND	OHCI Phy/Link Layer Controller	144-LQFP	7.26	5.81	4.91
TSB43CB43APGF	296-14329-ND	iceLynx-Micro™ with Streaming Audio	176-LQFP	16.24	14.63	12.97
TSB81BA3PFP	296-14215-5-ND	1394b Three-Port Cable Transceiver/Arbiter	80-HTQFP	9.25	8.33	7.39
TSB82AA2IPGEEP	296-18180-ND	OHCI-Lynx 1394b Link Layer Controller	144-LQFP	48.93	45.67	42.41
TSB82AA2PGE	296-14445-ND	OHCI-Lynx 1394b Link Layer Controller	144-LQFP	11.11	10.01	8.88

PCI

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCI1510GGU	296-12730-ND	Single Slot CardBus Controller	144-BGA	6.16	4.93	4.16
PCI1510PGE	296-12731-ND	Single Slot CardBus Controller	144-LQFP	6.16	4.93	4.16
PCI1510ZGU	296-15728-ND	Single Slot CardBus Controller	144-PBGA	6.16	4.93	4.16
PCI1520GHK	296-12279-5-ND	PC Card Controller	209-BGA	7.44	5.96	5.03
PCI1520IGHK	296-16944-ND	PC Card Controller	208-BGA	8.20	6.56	5.54
PCI1520IPDV	296-16945-ND	PC Card Controller	208-LQFP	8.20	6.56	5.54
PCI1520PDV	296-12280-5-ND	PC Card Controller	208-LQFP	7.44	5.96	5.03
PCI1520ZHK	296-16918-ND	PC Card Controller	209-BGA	7.44	5.96	5.03
PCI2040GGU	296-9633-5-ND	PCI-to-DSP Bridge Controller	144-BGA	15.83	14.77	13.72
PCI2040PGE	296-9634-ND	PCI-to-DSP Bridge Controller	144-LQFP	15.83	14.77	13.72
PCI2050BGHK	296-15213-ND	32-Bit, 66MHz PCI-to-PCI Bridge	257-BGA	15.83	14.25	12.64
PCI2050BPDV	296-14347-ND	32-Bit, 66MHz PCI-to-PCI Bridge	208-LQFP	15.83	14.25	12.64
PCI2050BPPM	296-15344-ND	32-Bit, 66MHz PCI-to-PCI Bridge	208-QFP	15.83	14.25	12.64
PCI2060ZHK	296-19316-ND	PCI to PCI Bridge ***NEW!***	257-PBGA	15.83	14.25	12.64
PCI2250PCM	296-9639-ND	32-Bit, 33MHz PCI-to-PCI Bridge	160-QFP	10.16	9.15	8.12
PCI2250PGF	296-9640-ND	32-Bit, 33MHz PCI-to-PCI Bridge	176-LQFP	10.16	9.15	8.12
PCI4510AZHK	296-17169-ND	PC Card and Integrated 1394a-2000 OHCI 2-Port PHY/Link-Layer Controller	209-PBGA	11.40	10.26	9.10
PCI4510GHK	296-13623-ND	PC Card and Integrated 1394a-2000 OHCI 2-Port PHY/Link Layer Controller	209-PBGA	11.40	10.26	9.10
PCI4510PDV	296-15365-ND	PC Card and Integrated 1394a-2000 OHCI 2-Port PHY/Link Layer Controller	208-LQFP	11.40	10.26	9.10
PCI4515GHK	296-17505-ND	PC Card Controller	257-BGA	12.11	10.91	9.67
PCI4520GHK	296-15366-ND	Dual Socket PC Card and Integrated 1394a-2000 OHCI Two-Port PHY/Link Layer Controller	257-BGA	13.03	11.73	10.41
PCI7411GHK	296-17244-ND	PC Card Controller	288-PBGA	16.68	15.57	14.46
PCI7411ZHK	296-17245-ND	PC Card Controller	288-PBGA	16.68	15.57	14.46
PCI7621GHK	296-17307-ND	Six-Function PCI Controller	288-BGA	19.25	17.97	16.68
PCI7621ZHK	296-17308-ND	Six-Function PCI Controller	288-PBGA	19.25	17.97	16.68
XIO2000AZZZ	296-19569-ND	PCI Express to PCI Bridge ***NEW!***	201-PBGA	22.43	20.93	19.44
XIO2000GZZ	296-18641-ND	PCI-Express Bridge	201-PBGA	22.43	20.93	19.44
XIO2000ZZZ	296-18642-ND	PCI-Express Bridge	201-PBGA	22.43	20.93	19.44
XIO2200AGGW	296-19617-ND	PCI Express to PCI Translation Bridge ***NEW!***	176-BGA	22.58	21.07	19.57
XIO2200AZGW	296-19567-ND	PCI Express to PCI Translation Bridge ***NEW!***	176-BGA	22.58	21.07	19.57
XIO2200ZGW	296-19486-ND	PCI Express to PCI Translation Bridge ***NEW!***	176-BGA	22.58	21.07	19.57

PECL

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TB3R1D	296-15945-5-ND	Quad Differential PECL Receiver	16-SOIC	14.41	12.98	11.51
TB3R2D	296-15946-5-ND	Quad Differential PECL Receiver	16-SOIC	14.41	12.98	11.51
TB5R1D	296-15947-5-ND	Quad Differential PECL Receiver	16-SOIC	12.00	10.80	9.58
TB5R1DW	296-15948-5-ND	Quad Differential PECL Receiver	16-SOIC	12.00	10.80	9.58
TB5R1LDW	296-17535-5-ND	Quad Differential PECL Receiver	16-SOIC	12.00	10.80	9.58
TB5R2D	296-15949-5-ND	Quad Differential PECL Receiver	16-SOIC	12.00	10.80	9.58
TB5R2DW	296-15950-5-ND	Quad Differential PECL Receiver	16-SOIC	12.00	10.80	9.58
TB5T1D	296-16689-5-ND	Dual Diff. PECL Driver/Receiver	16-SOIC	12.00	10.80	9.58
TB5T1DW	296-16690-5-ND	Dual Diff. PECL Driver/Receiver	16-SOIC	12.00	10.80	9.58

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TEXAS INSTRUMENTS CCD

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV990-13PFB	296-10737-ND	10-Bit, 13Msps CCD Signal Processor/Digitizer	48-TQFP	5.90	4.72	3.99
TLV990-21PFB	296-10738-ND	10-Bit, 21Msps CCD Analog Front End	48-TQFP	5.06	4.05	3.15
TLV990-28PFB	296-10739-ND	10-Bit, 28Msps CCD Analog Front End	48-TQFP	6.90	5.52	4.66
TLV990-40PFB	296-10740-ND	10-Bit, 40Msps CCD Analog Front End	48-TQFP	7.60	6.08	5.13
TSC2000IPW	TSC2000IPW-ND	Prog. Touch Screen Controller	20-TSSOP	5.29	4.23	3.29
VSP10T21PFB	296-12701-ND	Video Signal Processor/Digitizer	48-TQFP	7.20	5.76	4.86
VSP1221PFB	296-12296-ND	LP CCD Signal Processor	48-TQFP	7.50	6.00	5.07
VSP1900DBT	296-15068-5-ND	CCD Vertical Driver for Digital Cameras	30-TSSOP	8.75	7.88	6.99
VSP2000Y	VSP2000Y-ND	CCD Signal Processor for Digital Cameras	48-LQFP	9.92	7.94	6.70
VSP2210Y	VSP2210Y-ND	10-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	14.16	12.75	11.31
VSP2212Y	VSP2212Y-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	15.98	14.91	13.85
VSP2230Y	VSP2230Y-ND	10-Bit Digital Camera CCD Signal Processor	48-LQFP	15.23	14.21	13.20
VSP2232Y	VSP2232Y-ND	12-Bit Digital Camera CCD Signal Processor	48-LQFP	18.38	17.15	15.93
VSP2254GSJ	296-14396-ND	36MHz, 2-Ch. CCD Processor	96-BGA	18.90	17.64	16.38
VSP2260Y	VSP2260Y-ND	10-Bit, 27MHz, Digital Camera CCD Signal Processor	48-LQFP	9.60	7.68	6.48
VSP2260Y/2K	VSP2260YTR-ND	10-Bit, 27MHz, Digital Camera CCD Signal Processor	48-LQFP	12000.00/2,000		
VSP2262Y	VSP2262Y-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	15.83	14.77	13.72
VSP2262Y/2K	VSP2262YTR-ND	12-Bit, 20MHz, Digital Camera CCD Signal Processor	48-LQFP	26058.00/2,000		
VSP2270Y	296-12541-ND	28MHz CCD Signal Processor	48-LQFP	11.66	10.50	9.31
VSP2272Y	296-12542-ND	28MHz CCD Signal Processor	48-LQFP	15.16	13.65	12.11
VSP3010Y	VSP3010Y-ND	12-Bit, CCD/CIS Controller	48-LQFP	10.25	9.23	8.18
VSP3100Y	VSP3100Y-ND	14-Bit, 10MHz CCD/CIS Signal Processor	48-LQFP	8.91	8.03	7.12
VSP3200Y	VSP3200Y-ND	16-Bit, CCD/CIS Processor	48-LQFP	10.66	9.60	8.52
VSP3200Y/2K	VSP3200YTR-ND	16-Bit, CCD/CIS Processor	48-LQFP	15808.00/2,000		
VSP3210Y	VSP3210Y-ND	16-Bit, CCD/CIS Processor	48-LQFP	10.66	9.60	8.52
VSP3210Y2/K	VSP3210YTR-ND	16-Bit, CCD/CIS Processor	48-LQFP	15808.00/2,000		
VSP5000PM	296-14235-5-ND	12-Bit, 30MHz CCD Signal Front End	64-LQFP	15.75	14.70	13.65

TEXAS INSTRUMENTS COMPARATORS

General Purpose Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
L293DNE	296-9518-5-ND	Quad Half-H Drivers	16-Dip	2.75	2.20	1.71
L293NE	296-9519-5-ND	Quad Half-H Drivers	16-Dip	2.75	2.20	1.71
LM239DR	296-14590-1-ND	Quad Differential Comparator	14-SOIC	.48	.36	.27
LM239DR	296-14590-2-ND	Quad Differential Comparator	14-SOIC	390.00/2,500		
LM293AD	296-9530-5-ND	Dual Differential Comparator	8-SOIC	.48	.36	.27
LM293D	296-9531-5-ND	Dual Differential Comparator	8-SOIC	.55	.44	.33
LM293DR	296-12848-1-ND	Dual Differential Comparator	8-SOIC	.55	.44	.33
LM293DR	296-12848-2-ND	Dual Differential Comparator	8-SOIC	372.50/2,500		
LM293P	296-9532-5-ND	Dual Differential Comparator	8-Dip	.55	.44	.33
LM339AD	296-6604-5-ND	Quad Differential Comparator	14-SOIC	.50	.40	.30
LM339ADR	296-6604-1-ND	Quad Differential Comparator	14-SOIC	.50	.40	.30
LM339ADR	296-6604-2-ND	Quad Differential Comparator	14-SOIC	337.50/2,500		
LM339AN	296-6605-5-ND	Quad Differential Comparator	14-Dip	.50	.40	.30
LM339APWR	296-18454-1-ND	Quad Differential Comparator	14-TSSOP	.50	.40	.30
LM339APWR	296-18454-2-ND	Quad Differential Comparator	14-TSSOP	280.00/2,000		
LM339D	296-1013-5-ND	Quad Differential Comparator	14-SOIC	.45	.36	.27
LM339DR	296-1013-1-ND	Quad Differential Comparator	14-SOIC	.45	.36	.27
LM339DR	296-1013-2-ND	Quad Differential Comparator	14-SOIC	305.00/2,500		
LM339DBR	296-6606-1-ND	Quad Differential Comparator	14-SSOP	.45	.36	.27
LM339DBR	296-6606-2-ND	Quad Differential Comparator	14-SSOP	252.00/2,000		
LM339N	296-1393-5-ND	Quad Differential Comparator	14-Dip	.45	.36	.27
LM339PWR	296-6607-1-ND	Quad Diff. Comparator, A Grade	14-TSSOP	.45	.36	.27
LM339PWR	296-6607-2-ND	Quad Diff. Comparator, A Grade	14-TSSOP	252.00/2,000		
LM393AD	296-6608-5-ND	Dual Diff. Comparator, A Grade	8-SOIC	.50	.40	.30
LM393ADGKR	296-16807-1-ND	Dual Diff. Comparator, A Grade	8-MSOP	.50	.40	.30
LM393ADGKR	296-16807-2-ND	Dual Diff. Comparator, A Grade	8-MSOP	337.50/2,500		
LM393ADR	296-14605-1-ND	Dual Diff. Comparator, A Grade	8-SOIC	.50	.40	.30
LM393ADR	296-14605-2-ND	Dual Diff. Comparator, A Grade	8-SOIC	337.50/2,500		
LM393AP	296-6609-5-ND	Dual Diff. Comparator, A Grade	8-Dip	.50	.40	.30
LM393APWR	296-6610-1-ND	Dual Diff. Comparator, A Grade	8-TSSOP	.50	.40	.30
LM393APWR	296-6610-2-ND	Dual Diff. Comparator, A Grade	8-TSSOP	280.00/2,000		
LM393D	296-1015-5-ND	Dual Differential Comparator	8-SOIC	.45	.36	.27
LM393DGKR	296-16808-1-ND	Dual Differential Comparator	8-MSOP	.50	.40	.30
LM393DGKR	296-16808-2-ND	Dual Differential Comparator	8-MSOP	337.50/2,500		
LM393DR	296-1015-1-ND	Dual Differential Comparator	8-SOIC	.45	.36	.27
LM393DR	296-1015-2-ND	Dual Differential Comparator	8-SOIC	305.00/2,500		
LM393P	296-1398-5-ND	Dual Differential Comparator	8-Dip	.45	.36	.27
LM393PSR	296-9566-1-ND	Dual Differential Comparator	8-SOP	.45	.36	.27
LM393PSR	296-9566-2-ND	Dual Differential Comparator	8-SOP	252.00/2,000		
LM393PWR	296-14607-1-ND	Dual Differential Comparator	8-TSSOP	.45	.36	.27
LM393PWR	296-14607-2-ND	Dual Differential Comparator	8-TSSOP	252.00/2,000		
LM2901AVQDRQ1	296-18437-1-ND	Quad Differential Comparator	14-SOIC	.60	.45	.34
LM2901AVQDRQ1	296-18437-2-ND	Quad Differential Comparator	14-SOIC	487.50/2,500		
LM2901D	296-1385-5-ND	Quad Diff. Comparator, Ind. Temp.	14-SOIC	.50	.40	.30
LM2901DR	296-14593-1-ND	Quad Diff. Comparator, Ind. Temp.	14-SOIC	.50	.40	.30
LM2901DR	296-14593-2-ND	Quad Diff. Comparator, Ind. Temp.	14-SOIC	337.50/2,500		
LM2901N	296-1386-5-ND	Quad Diff. Comparator, Ind. Temp.	14-Dip	.50	.40	.30
LM2901PWR	296-6597-1-ND	Quad Diff. Comparator, Ind. Temp.	14-TSSOP	.50	.40	.30
LM2901PWR	296-6597-2-ND	Quad Diff. Comparator, Ind. Temp.	14-TSSOP	280.00/2,000		
LM2901QDRQ1	296-17157-5-ND	Quad Diff. Comparator, Ind. Temp.	14-SOIC	.48	.36	.27
LM2901QPWRQ1	296-18438-1-ND	Quad Differential Comparator	14-TSSOP	.48	.36	.27
LM2901QPWRQ1	296-18438-2-ND	Quad Differential Comparator	14-TSSOP	320.00/2,000		
LM2902D	296-6598-5-ND	Quad Op Amp	14-SOIC	.50	.40	.30
LM2902KVQDRQ1	296-17027-1-ND	Quad Op Amp	14-SOIC	.56	.42	.32
LM2902KVQDRQ1	296-17027-2-ND	Quad Op Amp	14-SOIC	455.00/2,500		
LM2902N	296-6599-5-ND	Quad Op Amp	14-Dip	.50	.40	.30
LM2902PWR	296-6600-1-ND	Quad Op Amp	14-TSSOP	.50	.40	.30
LM2902PWR	296-6600-2-ND	Quad Op Amp	14-TSSOP	280.00/2,000		
LM2902QDRQ1	296-16814-1-ND	Quad Op Amp	14-SOIC	.48	.36	.27
LM2902QDRQ1	296-16814-2-ND	Quad Op Amp	14-SOIC	390.00/2,500		
LM2903AVQDRQ1	296-18444-1-ND	Dual Differential Comparator	8-SOIC	.60	.45	.34
LM2903AVQDRQ1	296-18444-2-ND	Dual Differential Comparator	8-SOIC	487.50/2,500		
LM2903AVQPWRQ1	296-17790-1-ND	Dual Differential Comparator	8-TSSOP	.60	.45	.34
LM2903AVQPWRQ1	296-17790-2-ND	Dual Differential Comparator	8-TSSOP	400.00/2,000		
LM2903D	296-1012-5-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.50	.40	.30
LM2903DGKR	296-16806-1-ND	Dual Diff. Comparator, Ind. Temp.	8-MSOP	.50	.40	.30
LM2903DGKR	296-16806-2-ND	Dual Diff. Comparator, Ind. Temp.	8-MSOP	337.50/2,500		
LM2903DR	296-1012-1-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.50	.40	.30
LM2903DR	296-1012-2-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	337.50/2,500		
LM2903P	296-6601-5-ND	Dual Diff. Comparator, Ind. Temp.	8-Dip	.50	.40	.30
LM2903PSR	296-17322-1-ND	Dual Diff. Comparator, Ind. Temp.	8-SOP	.50	.40	.30
LM2903PSR	296-17322-2-ND	Dual Diff. Comparator, Ind. Temp.	8-SOP	280.00/2,000		
LM2903PWR	296-6602-1-ND	Dual Diff. Comparator, Ind. Temp.	8-TSSOP	.50	.40	.30
LM2903PWR	296-6602-2-ND	Dual Diff. Comparator, Ind. Temp.	8-TSSOP	280.00/2,000		
LM2903QDRQ1	296-15183-1-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	.48	.36	.27
LM2903QDRQ1	296-15183-2-ND	Dual Diff. Comparator, Ind. Temp.	8-SOIC	390.00/2,500		
LM2903QPWRQ1	296-16942-1-ND	Dual Differential Comparator	8-TSSOP	.48	.36	.27
LM2903QPWRQ1	296-16942-2-ND	Dual Differential Comparator	8-TSSOP	320.00/2,000		
LM2903VQDRQ1	296-19541-1-ND	Dual Differential Comparator ***NEW!***	8-SOIC	.56	.42	.32
LM2903VQDRQ1	296-19541-2-ND	Dual Differential Comparator ***NEW!***	8-SOIC	455.00/2,500		
LM2904QDRQ1	296-15184-1-ND	Dual Op Amp	8-SOIC	.48	.36	.27
LM2904QDRQ1	296-15184-2-ND	Dual Op Amp	8-SOIC	390.00/2,500		
LM3302D	296-9546-5-ND	Quad Differential Comparator	14-SOIC	.80	.60	.45
LM3302DR	296-14598-1-ND	Quad Differential Comparator	14-SOIC	.80	.60	.45
LM3302DR	296-14598-2-ND	Quad Differential Comparator	14-SOIC	650.00/2,500		
LM3302N	296-17223-5-ND	Quad Differential Comparator	14-Dip	.80	.60	.45
LMV339IDR	296-6611-1-ND	Quad Low-Voltage Comparator	14-SOIC	.96	.72	.54
LMV339IDR	296-6611-2-ND	Quad Low-Voltage Comparator	14-SOIC	780.00/2,500		
LMV339IPWR	296-6612-1-ND	Quad Low-Voltage Comparator	14-TSSOP	.96	.72	.54
LMV339IPWR	296-6612-2-ND	Quad Low-Voltage Comparator	14-TSSOP	638.00/2,000		
TL331IDBVR	296-10168-1-ND	Single/Dual Differential Comparator	SOT-23-5	.50	.40	.30
TL331IDBVR	296-10168-2-ND	Single/Dual Differential Comparator	SOT-23-5	405.00/3,000		
TLC372CPWR	296-10309-1-ND	Dual Differential Comparator	8-TSSOP	.84	.70	.56
TLC372CPWR	296-10309-2-ND	Dual Differential Comparator	8-TSSOP	744.00/2,000		
TLC372ID	296-10310-5-ND	Dual Differential Comparator	8-SOIC	.90	.75	.60
TLC372MD	296-10311-5-ND	Dual Differential Comparator	8-SOIC	1.08	.90	.72
TLC372QD	296-10312-5-ND	Dual Differential Comparator	8-SOIC	.96	.80	.64
TLC374CN	296-10313-5-ND	Quad Differential Comparator	14-Dip	1.02	.85	.68
TLC374CPWR	296-10314-1-ND	Quad Differential Comparator	14-TSSOP	1.02	.85	.68
TLC374CPWR	296-10314-2-ND	Quad Differential Comparator	14-TSSOP	904.00/2,000		
TLC374ID	296-10315-5-ND	Quad Differential Comparator	14-SOIC	1.11	.93	.74
TLC374IN	296-10316-5-ND	Quad Differential Comparator	14-Dip	1.11	.93	.74
TLC374MD	296-10317-5-ND	Quad Differential Comparator	14-SOIC	1.38	1.15	.92

High Speed Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM139DR	296-6614-1-ND	Quad GP Differential Comparator	14-SOIC	1.20	1.00	.80
LM139DR	296-6614-2-ND	Quad GP Differential Comparator	14-SOIC	1300.00/2,500		
LM193DR	296-6615-1-ND	Dual GP Differential Comparator	8-SOIC	.84	.63	.48
LM193DR	296-6615-2-ND	Dual GP Differential Comparator	8-SOIC	682.50/2,500		
LM211D	296-6616-5-ND	Differential Comparator with Strobe	8-SOIC	.55	.44	.33
LM211DR	296-14589-1-ND	Differential Comparator with Strobe	8-SOIC	.55	.44	.33
LM211DR	296-14589-2-ND	Differential Comparator with Strobe	8-SOIC	372.50/2,500		
LM211P	296-6617-5-ND	Differential Comparator with Strobe	8-Dip	.55	.44	.33
LM211QD	296-9520-5-ND	Differential Comparator with Strobe	8-SOIC	.92	.69	.52
LM211QDREP	296-18099-1-ND	Differential Comparator with Strobe	8-SOIC	1.44	1.20	.96
LM211QDREP	296-18099-2-ND	Differential Comparator with Strobe	8-SOIC	1560.00/2,500		
LM211QDRQ1	296-17493-1-ND	Differential Comparator with Strobe	8-SOIC	.75	.63	.50
LM211QDRQ1	296-17493-2-ND	Differential Comparator with Strobe	8-SOIC	812.50/2,500		
LM239ADR	296-6618-1-ND	Quad GP Differential Comparator	14-SOIC	.60	.45	.34
LM239ADR	296-6618-2-ND	Quad GP Differential Comparator	14-SOIC	487.50/2,500		
LM239AQDREP	296-18100-1-ND	Quad GP Differential Comparator	14-SOIC	1.26	1.05	.84
LM239AQDREP	296-18100-2-ND	Quad GP Differential Comparator	14-SOIC	1365.00/2,500		
LM239D	296-6620-5-ND	Quad GP Differential Comparator	14-SOIC	.60	.48	.36
LM239N	296-6621-5-ND	Quad GP Differential Comparator	14-Dip	.60	.48	.36
LM239PWR	296-15084-1-ND	Quad GP Differential Comparator	14-TSSOP	.48	.36	.27
LM239PWR	296-15084-2-ND	Quad GP Differential Comparator	14-TSSOP	320.00/2,000		
LM306D	296-9533-5-ND	Differential Comparator with Strobe	8-SOIC	1.29	1.08	.86
LM306P	296-1387-5-ND	Differential Comparator with Strobe	8-Dip	1.29	1.08	.86
LM311D	296-1388-5-ND	Differential Comparator with Strobe	8-SOIC	.50	.40	.30
LM311DR	296-1388-1-ND	Differential Comparator with Strobe	8-SOIC	.50	.40	.30
LM311DR	296-1388-2-ND	Differential Comparator with Strobe	8-SOIC	337.50/2,500		
LM311P	296-1389-5-ND	Differential Comparator with Strobe	8-Dip	.50	.40	.30
LM311PWR	296-13719-1-ND	Differential Comparator with Strobe	8-TSSOP	.50	.40	.30
LM311PWR	296-13719-2-ND	Differential Comparator with Strobe	8-TSSOP	280.00/2,000		
TL712CD	296-6629-5-ND	Differential Comparator	8-SOIC	1.38	1.15	.92
TL712CP	296-6630-5-ND	Differential Comparator	8-Dip	1.38	1.15	.92
TL714CD	296-6631-5-ND	High Speed Differential Comparator	8-SOIC	2.70	2.16	1.68
TL714CP	296-6632-5-ND	High Speed Differential Comparator	8-Dip	2.70	2.16	1.68
TL3016CD	296-1793-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.00	1.60	1.20
TL3016ID	296-1794-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.20	1.76	1.32
TL3016IPW	296-13615-5-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	2.20	1.76	1.32
TL3116CD	296-6626-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.00	1.60	1.20
TL3116CPWR	296-6627-1-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	2.00	1.60	1.20
TL3116CPWR	296-6627-2-ND	Ultra-Fast LP Precision Comparator	8-TSSOP	2080.00/2,000		
TL3116ID	296-6628-5-ND	Ultra-Fast LP Precision Comparator	8-SOIC	2.20	1.76	1.32
TLV3501AIDBVT	296-18248-1-ND	4.5nS R/R HS Comparator	SOT-23-6	3.71	2.97	2.31
TLV3501AIDBVT	296-18248-2-ND	4.5nS R/R HS Comparator	SOT-23-6	548.75/250		
TLV3502AID	296-18301-5-ND	4.5nS R/R HS Comparator	8-SOIC	4.95	3.96	3.08

Low Power Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMV331IDBVR	296-6633-1-ND	Single GP Low Voltage Comparator	SOT-23-5	.96	.72	.54
LMV331IDBVR	296-6633-2-ND	Single GP Low Voltage Comparator	SOT-23-5	936.00/3,000		
LMV331IDCKR	296-6634-1-ND	Single GP Low Voltage Comparator	SC70-5	.96	.72	.54
LMV331IDCKR	296-6634-2-ND	Single GP Low Voltage Comparator	SC70-5	936.00/3,000		
LMV393IDDUR	296-17028-1-ND	Dual Low Voltage Comparator	8-VSSOP	.80	.60	.45
LMV393IDDUR	296-17028-2-ND	Dual Low Voltage Comparator	8-VSSOP	780.00/3,000		
LMV393IDGKR	296-13993-1-ND	Dual GP Low Voltage Comparator	8-VSSOP	.88	.66	.50
LMV393IDGKR	296-13993-2-ND	Dual GP Low Voltage Comparator	8-VSSOP	715.00/2,500		
LMV393IDR	296-6635-1-ND	Dual GP Low Voltage Comparator	8-SOIC	.80	.60	.45
LMV393IDR	296-6635-2-ND	Dual GP Low Voltage Comparator	8-SOIC	650.00/2,500		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

TEXAS INSTRUMENTS COMPARATORS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMV393IPWR	296-6636-1-ND	Dual GP Low Voltage Comparator	8-TSSOP	.88	.66	.50
LMV393IPWR	296-6636-2-ND	Dual GP Low Voltage Comparator	8-TSSOP	586.00/2,000		
LP211D	296-9573-5-ND	Differential Comparator	8-SOIC	1.02	.85	.68
LP2901D	296-9574-5-ND	Quad Differential Comparator	14-SOIC	1.14	.95	.76
LP2901N	296-9575-5-ND	Quad Differential Comparator	14-Dip	1.14	.95	.76
LP311D	296-9576-5-ND	Differential Comparator	8-SOIC	1.14	.95	.76
LP311DR	296-14608-1-ND	Differential Comparator	8-SOIC	1.14	.95	.76
LP311DR	296-14608-2-ND	Differential Comparator	8-SOIC	1235.00/2,500		
LP311P	296-9577-5-ND	Differential Comparator	8-Dip	1.14	.95	.76
LP339D	296-9578-5-ND	Quad Differential Comparator	14-SOIC	.60	.45	.34
LP339DR	296-14609-1-ND	Quad Differential Comparator	14-SOIC	.60	.45	.34
LP339DR	296-14609-2-ND	Quad Differential Comparator	14-SOIC	487.50/2,500		
LP339N	296-9579-5-ND	Quad Differential Comparator	14-Dip	.60	.45	.34
TLC339CD	296-10281-5-ND	Quad Differential Comparator	14-SOIC	1.11	.93	.74
TLC339CN	296-12312-5-ND	Quad Differential Comparator	14-Dip	1.11	.93	.74
TLC339CPWR	296-10282-1-ND	Quad Differential Comparator	14-TSSOP	1.11	.93	.74
TLC339CPWR	296-10282-2-ND	Quad Differential Comparator	14-TSSOP	984.00/2,000		
TLC339ID	296-1324-5-ND	Quad Differential Comparator	14-SOIC	1.20	1.00	.80
TLC339IDR	296-1324-1-ND	Quad Differential Comparator	14-SOIC	1.20	1.00	.80
TLC339IDR	296-1324-2-ND	Quad Differential Comparator	14-SOIC	1300.00/2,500		
TLC339IN	296-10283-5-ND	Quad Differential Comparator	14-Dip	1.20	1.00	.80
TLC339MN	296-10284-5-ND	Quad Differential Comparator	14-Dip	1.25	1.00	.75
TLC352IPW	296-17476-5-ND	LinCMOS™ Dual Diff. Comparator	8-TSSOP	1.11	.93	.74
TLC372CD	296-1327-5-ND	Dual Differential Comparator	8-SOIC	.84	.70	.56
TLC372CDR	296-1327-1-ND	Dual Differential Comparator	8-SOIC	.84	.70	.56
TLC372CDR	296-1327-2-ND	Dual Differential Comparator	8-SOIC	910.00/2,500		
TLC372CP	296-1845-5-ND	Dual Differential Comparator	8-Dip	.84	.70	.56
TLC372IP	296-1846-5-ND	Dual Differential Comparator	8-Dip	.90	.75	.60
TLC374CD	296-1328-5-ND	Quad Differential Comparator	14-SOIC	1.02	.85	.68
TLC374CDR	296-1328-1-ND	Quad Differential Comparator	14-SOIC	1.02	.85	.68
TLC374CDR	296-1328-2-ND	Quad Differential Comparator	14-SOIC	1105.00/2,500		
TLC393CD	296-1329-5-ND	Dual Voltage Comparator	8-SOIC	.93	.78	.62
TLC393CDR	296-1329-1-ND	Dual Voltage Comparator	8-SOIC	.93	.78	.62
TLC393CDR	296-1329-2-ND	Dual Voltage Comparator	8-SOIC	1007.50/2,500		
TLC393CP	296-1849-5-ND	Dual Voltage Comparator	8-Dip	.93	.78	.62
TLC393CPWR	296-10318-1-ND	Dual Voltage Comparator	8-TSSOP	.93	.78	.62
TLC393CPWR	296-10318-2-ND	Dual Voltage Comparator	8-TSSOP	824.00/2,000		
TLC393ID	296-1330-5-ND	Dual Voltage Comparator	8-SOIC	1.02	.85	.68
TLC393IDR	296-1330-1-ND	Dual Voltage Comparator	8-SOIC	1.02	.85	.68
TLC393IDR	296-1330-2-ND	Dual Voltage Comparator	8-SOIC	1105.00/2,500		
TLC393IP	296-10320-5-ND	Dual Voltage Comparator	8-Dip	1.02	.85	.68
TLC393IPWR	296-10321-1-ND	Dual Voltage Comparator	8-TSSOP	1.02	.85	.68
TLC393IPWR	296-10321-2-ND	Dual Voltage Comparator	8-TSSOP	904.00/2,000		
TLC393QDRQ1	296-17501-1-ND	Dual Voltage Comparator	8-SOIC	1.08	.90	.72
TLC393QDRQ1	296-17501-2-ND	Dual Voltage Comparator	8-SOIC	1170.00/2,500		
TLC3702CD	296-1325-5-ND	Dual Voltage Comparator	8-SOIC	.87	.73	.58
TLC3702CDR	296-1325-1-ND	Dual Voltage Comparator	8-SOIC	.87	.73	.58
TLC3702CDR	296-1325-2-ND	Dual Voltage Comparator	8-SOIC	942.50/2,500		
TLC3702CP	296-1841-5-ND	Dual Voltage Comparator	8-Dip	.87	.73	.58
TLC3702ID	296-1326-5-ND	Dual Voltage Comparator	8-SOIC	.93	.78	.62
TLC3702IDR	296-1326-1-ND	Dual Voltage Comparator	8-SOIC	.93	.78	.62
TLC3702IDR	296-1326-2-ND	Dual Voltage Comparator	8-SOIC	1007.50/2,500		
TLC3702IP	296-10300-5-ND	Dual Voltage Comparator	8-Dip	.93	.78	.62
TLC3702IPW	296-10301-5-ND	Dual Voltage Comparator	8-TSSOP	.93	.78	.62
TLC3702MD	296-12188-5-ND	Dual Voltage Comparator	8-SOIC	1.11	.93	.74
TLC3702MDREP	296-18142-1-ND	Dual Voltage Comparator	8-SOIC	2.65	2.13	1.66
TLC3702MDREP	296-18142-2-ND	Dual Voltage Comparator	8-SOIC	3717.50/2,500		
TLC3702QDRQ1	296-18903-1-ND	Dual Voltage Comparator	8-SOIC	1.02	.85	.68
TLC3702QDRQ1	296-18903-2-ND	Dual Voltage Comparator	8-SOIC	1105.00/2,500		
TLC3704CD	296-10302-5-ND	Quad Voltage Comparator	14-SOIC	1.20	1.00	.80
TLC3704CN	296-10303-5-ND	Quad Voltage Comparator	14-Dip	1.20	1.00	.80
TLC3704CNS	296-10304-5-ND	Quad Voltage Comparator	14-SOP	1.20	1.00	.80
TLC3704CNSR	296-10304-1-ND	Quad Voltage Comparator	14-SOP	1.20	1.00	.80
TLC3704CNSR	296-10304-2-ND	Quad Voltage Comparator	14-SOP	1064.00/2,000		
TLC3704CPWR	296-10305-1-ND	Quad Voltage Comparator	14-TSSOP	1.20	1.00	.80
TLC3704CPWR	296-10305-2-ND	Quad Voltage Comparator	14-TSSOP	1064.00/2,000		
TLC3704ID	296-1843-5-ND	Quad Voltage Comparator	14-SOIC	1.38	1.15	.92
TLC3704IN	296-10306-5-ND	Quad Voltage Comparator	14-Dip	1.38	1.15	.92
TLC3704IPW	296-10307-5-ND	Quad Voltage Comparator	14-TSSOP	1.38	1.15	.92
TLC3704MD	296-10308-5-ND	Quad Voltage Comparator	14-SOIC	1.38	1.10	.83
TLC3704QDRQ1	296-17830-1-ND	Quad Voltage Comparator	14-SOIC	1.25	1.00	.75
TLC3704QDRQ1	296-17830-2-ND	Quad Voltage Comparator	14-SOIC	1600.00/2,500		
TLV2702ID	296-12503-5-ND	Nanopower Op Amp and Push-Pull Comparator	8-SOIC	2.15	1.72	1.29
TLV2702IDGK	296-13370-5-ND	Nanopower Op Amp and Push-Pull Comparator	8-VSSOP	2.15	1.72	1.29
TLV3011AIDBVT	296-16745-1-ND	1.8V, Open Drain Comparator with Reference	SOT-23-6	2.13	1.70	1.28
TLV3011AIDBVT	296-16745-2-ND	1.8V, Open Drain Comparator with Reference	SOT-23-6	297.50/250		
TLV3011AIDCKT	296-17117-1-ND	1.8V, Open Drain Comparator with Reference	SC70-6	2.13	1.70	1.28
TLV3011AIDCKT	296-17117-2-ND	1.8V, Open Drain Comparator with Reference	SC70-6	297.50/250		
TLV3012AIDBVT	296-16830-1-ND	1.8V, Comparator with Voltage Ref.	SOT-23-6	2.13	1.70	1.28
TLV3012AIDBVT	296-16830-2-ND	1.8V, Comparator with Voltage Ref.	SOT-23-6	297.50/250		
TLV3012AIDCKT	296-17118-1-ND	1.8V, Comparator with Voltage Ref.	SC70-6	2.13	1.70	1.28
TLV3012AIDCKT	296-17118-2-ND	1.8V, Comparator with Voltage Ref.	SC70-6	297.50/250		
TLV3401IDBVR	296-13376-1-ND	Nanopower Open Drain Output Comparator	SOT-23-5	1.63	1.30	.98
TLV3401IDBVR	296-13376-2-ND	Nanopower Open Drain Output Comparator	SOT-23-5	2496.00/3,000		
TLV3401IDR	296-10707-1-ND	Nanopower Open Drain Output Comparator	8-SOIC	1.63	1.30	.98
TLV3401IDR	296-10707-2-ND	Nanopower Open Drain Output Comparator	8-SOIC	2080.00/2,500		
TLV3401IP	296-12042-5-ND	Nanopower Open Drain Output Comparator	8-Dip	1.63	1.30	.98
TLV3402IP	296-12043-5-ND	Dual Open Drain Output Comparator	8-Dip	2.25	1.80	1.35
TLV3402IDGKR	296-10708-1-ND	Dual Nanopower Comparator	8-MSOP	2.25	1.80	1.35
TLV3402IDGKR	296-10708-2-ND	Dual Nanopower Comparator	8-MSOP	2880.00/2,500		
TLV3402IDR	296-10709-1-ND	Dual Nanopower Comparator	8-SOIC	2.25	1.80	1.35
TLV3402IDR	296-10709-2-ND	Dual Nanopower Comparator	8-SOIC	2880.00/2,500		
TLV3404IN	296-12044-5-ND	Quad Open Drain Output Comparator	14-Dip	2.59	2.07	1.61
TLV3501AID	296-17921-5-ND	4.5nS R/R High Speed Comparator	8-SOIC	3.38	2.70	2.10
TLV3502AIDCNT	296-18147-1-ND	4.5nS R/R High Speed Comparator	SOT-23-8	5.51	4.41	3.43
TLV3502AIDCNT	296-18147-2-ND	4.5nS R/R High Speed Comparator	SOT-23-8	814.75/250		
TLV3701CDBVT	296-13377-1-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	1.63	1.30	.98
TLV3701CDBVT	296-13377-2-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	227.50/250		
TLV3701ID	296-12608-5-ND	Nanopower Push-Pull Output Comparator	8-SOIC	1.63	1.30	.98
TLV3701IDBVT	296-13378-1-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	1.75	1.40	1.05
TLV3701IDBVT	296-13378-2-ND	Nanopower Push-Pull Output Comparator	SOT-23-5	245.00/250		
TLV3701IP	296-13379-5-ND	Nanopower Push-Pull Output Comparator	8-Dip	1.63	1.30	.98
TLV3701QDBVRQ1	296-16957-1-ND	Nanopower Push-Pull Output Comparator	SOT-23	1.75	1.40	1.05
TLV3701QDBVRQ1	296-16957-2-ND	Nanopower Push-Pull Output Comparator	SOT-23	2688.00/3,000		
TLV3702ID	296-12609-5-ND	Dual Nanopower Push-Pull Output Comparator	8-SOIC	2.25	1.80	1.35
TLV3702IP	296-13380-5-ND	Dual Nanopower Push-Pull Output Comparator	8-Dip	2.25	1.80	1.35
TLV3702IDGK	296-12610-5-ND	Dual Nanopower Push-Pull Output Comparator	8-VSSOP	2.25	1.80	1.35
TLV3702QDRQ1	296-16958-1-ND	Nanopower Push-Pull Output Comparator	8-SOIC	2.38	1.90	1.43
TLV3702QDRQ1	296-16958-2-ND	Nanopower Push-Pull Output Comparator	8-SOIC	3040.00/2,500		
TLV3704IDR	296-12287-1-ND	Quad Nanopower Push-Pull Comparator	14-SOIC	2.59	2.07	1.61
TLV3704IDR	296-12287-2-ND	Quad Nanopower Push-Pull Comparator	14-SOIC	3622.50/2,500		
TLV3704IN	296-12611-5-ND	Quad Nanopower Push-Pull Comparator	14-Dip	2.59	2.07	1.61
TLV3704IPW	296-12400-5-ND	Quad Nanopower Push-Pull Comparator	14-TSSOP	2.59	2.07	1.61

Low Voltage Comparators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC352CD	296-1839-5-ND	Dual Differential Comparator	8-SOIC	1.02	.85	.68
TLC352CP	296-10285-5-ND	Dual Differential Comparator	8-Dip	1.02	.85	.68
TLC352ID	296-10286-5-ND	Dual Differential Comparator	8-SOIC	1.11	.93	.74
TLC352IP	296-10287-5-ND	Dual Differential Comparator	8-Dip	1.11	.93	.74
TLC354CD	296-10292-5-ND	Quad Differential Comparator	14-SOIC	1.17	.98	.78
TLC354CN	296-10293-5-ND	Quad Differential Comparator	14-Dip	1.17	.98	.78
TLC354CPW	296-10294-5-ND	Quad Differential Comparator	14-TSSOP	1.17	.98	.78
TLC354ID	296-10295-5-ND	Quad Differential Comparator	14-SOIC	1.38	1.15	.92
TLV1391CDBVR	296-10492-1-ND	Differential Comparator	SOT-23-5	.75	.63	.50
TLV1391CDBVR	296-10492-2-ND	Differential Comparator	SOT-23-5	975.00/3,000		
TLV2352ID	296-10517-5-ND	Dual Differential Comparator	8-SOIC	1.90	1.52	1.14
TLV2352IP	296-10518-5-ND	Dual Differential Comparator	8-Dip	1.90	1.52	1.14
TLV2352IPWR	296-10519-1-ND	Dual Differential Comparator	8-TSSOP	1.90	1.52	1.14
TLV2352IPWR	296-10519-2-ND	Dual Differential Comparator	8-TSSOP	1976.00/2,000		
TLV2354ID	296-10520-5-ND	Quad Differential Comparator	14-SOIC	2.68	2.15	1.67
TLV2354IN	296-10521-5-ND	Quad Differential Comparator	14-Dip	2.68	2.15	1.67
TLV2354IPWR	296-10522-1-ND	Quad Differential Comparator	14-TSSOP	2.68	2.15	1.67
TLV2354IPWR	296-10522-2-ND	Quad Differential Comparator	14-TSSOP	3034.00/2,000		

TEXAS INSTRUMENTS DATA COMMUNICATIONS

Audio CODECs

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCM2900E	296-13034-5-ND	Stereo Audio CODEC w/USB Interface	28-SSOP	8.30	6.64	5.61
PCM2901E	296-12985-5-ND	Stereo Audio CODEC w/USB Interface, Single Ended Analog I/O and S/PDIF	28-SSOP	8.30	6.64	5.61
PCM2902E	296-12986-5-ND	Stereo Audio CODEC w/USB Interface, Single Ended Analog I/O and S/PDIF	28-SSOP	9.00	7.20	6.08
PCM2903E	296-12987-5-ND	Stereo Audio CODEC w/USB Interface, Single Ended Analog I/O and S/PDIF	28-SSOP	9.00	7.20	6.08
PCM2904DB	296-13478-5-ND	Stereo Audio Codec w/USB Interface, Single Ended Analog I/O and S/PDIF	28-SSOP	8.30	6.64	5.61
PCM2906DB	296-13479-5-ND	Stereo Audio Codec w/USB Interface, Single Ended Analog I/O and S/PDIF	28-SSOP	9.00	7.20	6.08
PCM3000E	PCM3000E-ND	Stereo Audio CODEC 18-Bit, 3-Wire Interface	28-SSOP	6.90	5.52	4.66
PCM3001E	PCM3001E-ND	Stereo Audio CODEC 18-Bit, Pin Programmable	28-SSOP	6.90	5.52	4.66
PCM3002E	PCM3002E-ND	20-Bit, Stereo CODEC, Software Control	24-SSOP	6.90	5.52	4.66
PCM3003E	PCM3003E-ND	20-Bit, Stereo CODEC, Hardware Control	24-SSOP	6.90	5.52	4.66
PCM3008T	PCM3008T-ND	16-Bit, Low Power/Voltage Stereo CODEC	16-TSSOP	6.20	4.96	4.19
PCM3010DB	296-14398-5-ND	24-Bit, Stereo Audio Codec	24-SSOP	8.00	6.40	5.40
PCM3500E	PCM3500E-ND	Voice/Modem CODEC	24-SSOP	5.30	4.24	3.58
PCM3501E	PCM3501E-ND	Voice/Modem CODEC	24-SSOP	5.30	4.24	3.58
TLV320AIC22CPT	296-13661-ND	Dual Voice Over Internet Protocol (VoIP) Codec	48-LQFP	7.04	5.64	4.76
TLV320AIC23BRHDR	296-15121-1-ND	Stereo Audio CODEC with Integrated Headphone Amp	28-QFN	6.00	4.80	4.05
TLV320AIC23BRHDR	296-15121-2-ND	Stereo Audio CODEC with Integrated Headphone Amp	28-QFN	11160.00/3,000		
TLV320AIC26IRHB	296-18911-ND	Low Power Stereo Audio Codec	32-QFN	6.50	5.20	4.39

Central Office CODEC

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TCM38C17IDL	296-1761-5-ND	4-Channel PCM Combo	48-SSOP	9.70	7.76	6.55
TP3054ADW	296-10782-5-ND	PCM CODEC/Filtering System (u-law)	16-SOIC	2.75	2.20	1.71
TP3054AN	296-10783-5-ND	PCM CODEC/Filtering System (u-law)	16-Dip	2.75	2.20	1.71
TP3054BDW	296-10784-5-ND	PCM CODEC/Filtering System (u-law)	16-SOIC	2.75	2.20	1.71
TP3054BN	296-1936-5-ND	PCM CODEC/Filtering System (u-law)	16-Dip	2.75	2.20	1.71
TP3056BDW	296-10785-5-ND	PCM CODEC and Filter (A-law and u-law)	16-SOIC	2.86	2.29	1.78
TP3056BN	296-10786-5-ND	PCM CODEC and Filter (A-law and u-law)	16-Dip	2.86	2.29	1.78
TP3057ADW	296-10787-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	2.75	2.20	1.71

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

TEXAS INSTRUMENTS DATA COMMUNICATIONS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TP3057AN	296-10788-5-ND	PCM CODEC and Filter (A-law)	16-Dip	2.75	2.20	1.71
TP3057BDW	296-10789-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	2.75	2.20	1.71
TP3057BN	296-10790-5-ND	PCM CODEC and Filter (A-law)	16-Dip	2.75	2.20	1.71
TP3064BDW	296-10791-5-ND	PCM CODEC/Filtering System (u-law)	20-SOIC	2.75	2.20	1.71
TP3064BN	296-10792-5-ND	PCM CODEC/Filtering System (u-law)	20-Dip	2.75	2.20	1.71
TP3067ADW	296-10793-5-ND	PCM CODEC and Filter (A-law)	20-SOIC	2.75	2.20	1.71
TP3067AN	296-10794-5-ND	PCM CODEC and Filter (A-law)	20-Dip	2.75	2.20	1.71
TP3067BDW	296-10795-5-ND	PCM CODEC and Filter (A-law)	20-SOIC	2.75	2.20	1.71
TP3067BN	296-10796-5-ND	PCM CODEC and Filter (A-law)	20-Dip	2.75	2.20	1.71
TP13054ADW	296-10774-5-ND	PCM CODEC/Filtering System (u-law)	16-SOIC	3.08	2.47	1.92
TP13054BDW	296-10775-5-ND	PCM CODEC/Filtering System (u-law)	16-SOIC	3.08	2.47	1.92
TP13054BN	296-10776-5-ND	PCM CODEC/Filtering System (u-law)	16-Dip	3.08	2.47	1.92
TP13057BDW	296-10777-5-ND	PCM CODEC and Filter (A-law)	16-SOIC	3.08	2.47	1.92
TP13057BN	296-10778-5-ND	PCM CODEC and Filter (A-law)	16-Dip	3.08	2.47	1.92
TP13064BDW	296-10779-5-ND	PCM CODEC/Filtering System (u-law)	20-SOIC	3.08	2.47	1.92
TP13067BDW	296-10780-5-ND	PCM CODEC and Filter (A-law)	20-SOIC	3.08	2.47	1.92
TP13067BN	296-10781-5-ND	PCM CODEC and Filter (A-law)	20-Dip	3.08	2.47	1.92

IrDA

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TIR1000IPWR	296-6574-1-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2.59	2.07	1.61
TIR1000IPWR	296-6574-2-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2932.00/2,000		
TIR1000PSR	296-6572-1-ND	Standalone IrDA Encoder/Decoder	8-SOP	2.45	1.96	1.47
TIR1000PSR	296-6572-2-ND	Standalone IrDA Encoder/Decoder	8-SOP	2548.00/2,000		
TIR1000PWR	296-6573-1-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2.45	1.96	1.47
TIR1000PWR	296-6573-2-ND	Standalone IrDA Encoder/Decoder	8-TSSOP	2548.00/2,000		

Ring Controllers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC2750DW	296-2602-5-ND	Source Ringer Controller	28-SOIC	12.41	11.18	9.91
UCC2751D	296-2603-5-ND	Single Line Ring Generator Controller	16-SOIC	5.29	4.23	3.29
UCC2752D	296-2604-5-ND	Resonant Ring Generator Controller	16-SOIC	5.29	4.23	3.29
UCC3750N	296-11454-5-ND	Source Ringer Controller	28-Dip	9.16	8.25	7.32
UCC3750DW	296-2605-5-ND	Source Ringer Controller	28-SOIC	9.16	8.25	7.32
UCC3751D	296-2606-5-ND	Single Line Ring Generator Controller	16-SOIC	4.39	3.51	2.73
UCC3751N	296-11455-5-ND	Single Line Ring Generator Controller	16-Dip	4.39	3.51	2.73
UCC3752D	296-2607-5-ND	Resonant Ring Generator Controller	16-SOIC	4.39	3.51	2.73
UCC3752N	296-11456-5-ND	Resonant Ring Generator Controller	16-Dip	4.39	3.51	2.73

SONET Transceivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SLK2501IPZP	296-12281-ND	OC-48 SONET/SDH Multirate Transceiver	100-HTQFP	55.13	51.45	47.78
SLK2511AIPZP	296-16997-ND	Sonet/SDH Multirate Transceiver	100-HTQFP	55.13	51.45	47.78
SLK2511IPZP	296-13035-5-ND	Sonet/SDH Multirate Transceiver	100-HTQFP	55.13	51.45	47.78
SLK2701IPZP	296-12543-ND	2.7Gbps SONET/SDH Multirate Transceiver	100-HTQFP	55.13	51.45	47.78
SLK2721IPZP	296-13036-5-ND	Sonet/SDH Multirate Transceiver with Enhanced Jitter Tolerance	100-HTQFP	55.13	51.45	47.78

UARTs

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL16C450FN	296-10145-5-ND	Async. Communication Element	44-PLCC	2.88	2.31	1.80
TL16C450N	296-15115-5-ND	Async. Communication Element	40-Dip	2.88	2.31	1.80
TL16C451FN	296-10146-5-ND	Async. Communication Element	68-PLCC	4.82	3.86	3.00
TL16C452FN	296-10147-5-ND	Dual Async. Comm. Element	68-PLCC	4.91	3.93	3.06
TL16C550BPT	296-10152-ND	Async. Communication Element	48-LQFP	5.98	4.79	4.04
TL16C550CFN	296-10153-5-ND	Async. Communication Element	44-PLCC	3.38	2.70	2.10
TL16C550CIFN	296-10154-5-ND	Async. Communication Element	44-PLCC	3.76	3.01	2.34
TL16C550CIPT	296-1786-5-ND	Async. Communication Element	48-LQFP	3.76	3.01	2.34
TL16C550CN	296-10155-5-ND	Async. Communication Element	40-Dip	3.38	2.70	2.10
TL16C550CPFB	296-10156-ND	Async. Communication Element	48-TQFP	3.38	2.70	2.10
TL16C550CPT	296-1787-ND	Async. Communication Element	48-LQFP	3.38	2.70	2.10
TL16C550CPTR	296-1787-1-ND	Async. Communication Element	48-LQFP	3.38	2.70	2.10
TL16C550CPTR	296-1787-2-ND	Async. Communication Element	48-LQFP	1913.00/1,000		
TL16C550DIPT	296-16981-ND	Async. Communication Element	48-LQFP	3.74	2.99	2.33
TL16C550DIRHB	296-17676-ND	Async. Communication Element	32-QFN	3.74	2.99	2.33
TL16C550DPFB	296-18722-ND	Async. Communication Element	48-TQFP	3.42	2.74	2.13
TL16C550DRHB	296-17677-ND	Async. Communication Element	32-QFN	3.42	2.74	2.13
TL16C552AFN	296-1788-5-ND	Dual Async. Communication	68-PLCC	6.58	5.27	4.45
TL16C552AFNR	296-1788-1-ND	Dual Async. Communication	68-PLCC	6.58	5.27	4.45
TL16C552AFNR	296-1788-2-ND	Dual Async. Communication	68-PLCC	1069.25/250		
TL16C552AIFN	296-10159-5-ND	Dual Async. Communication	68-PLCC	6.84	5.48	4.62
TL16C552APN	296-10160-ND	Dual Async. Communication	80-LQFP	6.58	5.27	4.45
TL16C554AFN	296-6587-5-ND	Quad UART with 16-Byte FIFO	68-PLCC	8.55	7.70	6.83
TL16C554APN	296-6588-5-ND	Quad UART with 16-Byte FIFO	80-LQFP	8.55	7.70	6.83
TL16C750FN	296-2647-5-ND	64-Byte FIFO UART	44-PLCC	6.32	5.06	4.27
TL16C750IPM	296-6591-5-ND	Single UART with 64-Byte FIFO, AFC, Low Power Modes	64-LQFP	6.92	5.54	4.68
TL16C750PM	296-6592-5-ND	Single UART with 64-Byte FIFO, AFC, Low Power Modes.	64-LQFP	6.66	5.33	4.50
TL16C752BPT	296-2648-ND	3.3V Dual UART with 64-Byte FIFO	48-LQFP	5.32	4.26	3.60
TL16C752BTPTREP	296-18136-1-ND	3.3V Dual UART with 64-Byte FIFO	48-LQFP	15.14	13.64	12.09
TL16C752BTPTREP	296-18136-2-ND	3.3V Dual UART with 64-Byte FIFO	48-LQFP	11226.00/1,000		
TL16C754BFN	296-2650-5-ND	Quad 64-Byte FIFO UART	68-PLCC	11.88	10.70	9.49
TL16C754BPN	296-6593-5-ND	Quad UART with 64-Byte FIFO	80-LQFP	11.88	10.70	9.49
TL16C2550PFB	296-18721-ND	1.8V to 5V Dual UART	48-TQFP	5.32	4.26	3.60
TL16PC564BGGM	296-14404-ND	PCMCIA UART with 64-Byte FIFO	100-BGA	9.83	8.85	7.85
TL16PC564BLVPZ	296-2651-ND	PCMCIA UART	100-LQFP	10.16	9.15	8.12
TL16PC564BPZ	296-6594-5-ND	Single UART with 64-Byte FIFO, PCMCIA Interface	100-LQFP	9.83	8.85	7.85
TL16PIR552PH	296-6595-5-ND	Dual UART with 16-Byte FIFO, Selectable IR and 1284 Modes	80-QFP	10.16	9.15	8.12

USB

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TUSB2036VF	296-11086-ND	2/3-Port USB Hub	32-LQFP	2.45	1.96	1.47
TUSB2036VFG4	296-17784-ND	2/3-Port USB Hub	32-LQFP	2.45	1.96	1.47
TUSB2046BIVFR	296-11087-1-ND	4-Port USB Hub	32-LQFP	2.59	2.07	1.61
TUSB2046BIVFR	296-11087-2-ND	4-Port USB Hub	32-LQFP	1466.00/1,000		
TUSB2046BVF	296-11088-ND	4-Port USB Hub	32-LQFP	2.32	1.86	1.45
TUSB2077APT	296-11089-ND	7-Port USB Hub	48-LQFP	4.39	3.51	2.73
TUSB2136PM	296-11090-ND	2-Port USB Hub	64-LQFP	6.50	5.20	4.39
TUSB3200ACPAH	296-12289-5-ND	USB Streaming Controller	52-TQFP	8.90	7.12	6.01
TUSB3200CPAH	296-11091-ND	USB Streaming Controller	52-TQFP	7.60	6.08	5.13
TUSB3210PM	296-11092-ND	Universal Serial Bus Controller	64-LQFP	5.00	4.00	3.38
TUSB3410IVF	296-16757-ND	USB-to-Serial Port Controller	32-LQFP	5.00	4.00	3.38
TUSB3410UARTPDK	296-18080-ND	Product Design Kit for TUSB3410	—	126.84	—	—
TUSB5052PZ	296-12525-ND	5-Port USB Hub Controller	100-LQFP	8.72	6.98	5.89
TUSB6250DEMO	296-18081-ND	Demo Board for TUSB6250	—	126.84	—	—
TUSB6250PFC	296-19024-ND	USB 2.0 HS Capable Function Controller	80-TQFP	5.60	4.48	3.78

USB Transient Suppression

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65220DBVR	296-9694-1-ND	Single USB Port Transient Suppressor	SOT-23-6	.84	.70	.56
SN65220DBVR	296-9694-2-ND	Single USB Port Transient Suppressor	SOT-23-6	1092.00/3,000		
SN65220DBVT	296-2341-1-ND	Single USB Port Transient Suppressor	SOT-23-6	.90	.75	.60
SN65220DBVT	296-2341-2-ND	Single USB Port Transient Suppressor	SOT-23-6	112.50/250		
SN65220YZBT	296-17206-1-ND	Single USB Port Transient Suppressor	4-WCSP	.96	.72	.54
SN65220YZBT	296-17206-2-ND	Single USB Port Transient Suppressor	4-WCSP	99.50/250		
SN75240P	296-6596-5-ND	Dual USB Port Transient Suppressor	8-Dip	.99	.83	.66
SN75240PWR	296-6596-1-ND	Dual USB Port Transient Suppressor	8-TSSOP	.99	.83	.66
SN75240PWR	296-6596-2-ND	Dual USB Port Transient Suppressor	8-TSSOP	878.00/2,000		
SN65240P	296-9695-5-ND	Dual USB Port Transient Suppressor	8-Dip	.99	.83	.66
SN65240PW	296-9696-5-ND	Dual USB Port Transient Suppressor	8-TSSOP	.99	.83	.66
SN65240PWR	296-9696-1-ND	Dual USB Port Transient Suppressor	8-TSSOP	.99	.83	.66
SN65240PWR	296-9696-2-ND	Dual USB Port Transient Suppressor	8-TSSOP	878.00/2,000		

Video Decoder / Encoder

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TVP5031PFP	296-11093-ND	9-Bit with 3-Line Adaptive Comb NTSC/PAL Digital Video Decoder	80-TQFP	17.18	16.03	14.89
TVP5040CPFP	296-11802-ND	10-Bit Dual-Channel NTSC-PAL Digital Video Decoder	80-TQFP	17.18	16.03	14.89
TVP5145PFP	296-13021-5-ND	Digital Video Decoder with Macrovision Detection	80-TQFP	16.58	14.93	13.24
TVP5146M2PFP	296-18306-ND	Single Chip Digital Video Decoder	80-HTQFP	10.41	9.38	8.32
TVP5146PFP	296-16649-ND	Digital Video Decoder	80-TQFP	10.41	9.38	8.32
TVP5147M1PFP	296-18307-ND	Single Chip Digital Video Decoder	80-HTQFP	10.00	9.00	7.98
TVP5147PFP	296-16763-ND	Digital Video Decoder	80-TQFP	10.00	9.00	7.98
TVP5150AM1PBSR	296-17016-1-ND	NTSC/PAL/SECAM Video Decoder with Robust Sync. Detector	32-TQFP	8.00	6.40	5.40
TVP5150AM1PBSR	296-17016-2-ND	NTSC/PAL/SECAM Video Decoder with Robust Sync. Detector	32-TQFP	5000.00/1,000		
TVP5150AM1ZQC	296-17075-ND	NTSC/PAL/SECAM Video Decoder with Robust Sync. Detector	48-BGA	16.00	12.00	9.00
TVP5150APBS	296-16650-ND	NTSC/PAL/SECAM Video Decoder	32-TQFP	10.55	9.50	8.42
TVP5150APBSR	296-16846-1-ND	NTSC/PAL/SECAM Video Decoder with Robust Sync. Detector	32-TQFP	10.55	9.50	8.42
TVP5150APBSR	296-16846-2-ND	NTSC/PAL/SECAM Video Decoder with Robust Sync. Detector	32-TQFP	7818.00/1,000		
TVP5150PBS	296-19303-ND	NTSC/PAL/SECAM Video Decoder with Robust Sync. Detector	32-TQFP	8.00	6.40	5.40
TVP5160PNP	296-17800-ND	NTSC/PAL/SECAM Component 2x10-Bit Digital Video Decoder	128-HTQFP	13.33	12.00	10.64
TVP6000CPFP	296-11094-ND	NTSC/PAL Video Encoder	80-TQFP	12.66	11.40	10.11
TVP7000PZP	296-18741-ND	Triple 8/10-Bit, 150/110 MSPS, Video and Graphics Digitizer	100-TQFP	8.50	6.80	5.74
TVP7001PZP	296-19616-ND	Triple 8/10-Bit, 165/110MSPS, Video/ Graphics Digitizer ***NEW!***	100-HTQFP	9.50	7.60	6.42

TEXAS INSTRUMENTS DATA CONVERSION

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AMC7820Y/250	296-12621-1-ND	Analog Monitoring/Control Circuit	48-TQFP	8.30	6.64	5.61
AMC7820Y/250	296-12621-2-ND	Analog Monitoring/Control Circuit	48-TQFP	1348.75/250		
AMC7823IRTAT	296-18680-1-ND	Analog Monitoring/Control Circuit	40-QFN	16.13	15.05	13.98
AMC7823IRTAT	296-18680-2-ND	Analog Monitoring/Control Circuit	40-QFN	3426.50/250		

Analog-to-Digital Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADS574JP	ADS574JP-ND	12-Bit, 40KHz Sampling CMOS ADC	28-Dip	30.15	28.14	26.13
ADS574KP	ADS574KP-ND	12-Bit, 40KHz Sampling CMOS ADC	28-Dip	34.95	32.62	30.29
ADS774JP	ADS774JP-ND	12-Bit, 117KHz Sampling CMOS ADC	28-Dip	34.28	31.99	29.71
ADS774JU	ADS774JU-ND	12-Bit, 117KHz Sampling CMOS ADC	28-Dip	27.38	25.55	23.73
ADS774KE	ADS774KE-ND	12-Bit, 117KHz Sampling CMOS ADC	28-Dip	32.85	30.66	28.47
ADS774KP	ADS774KP-ND	12-Bit, 117KHz Sampling CMOS ADC	28-Dip	39.75	37.10	34.45
ADS774KU	ADS774KU-ND	12-Bit, 117KHz Sampling CMOS ADC	28-SOIC	32.85	30.66	28.47
ADS800U	ADS800U-ND	12-Bit, 40MHz Sampling ADC	28-SOIC	46.28	43.19	40.11
ADS801U	ADS801U-ND	12-Bit, 25MHz Sampling ADC	28-SOIC	18.83	17.57	16.32
ADS802U	ADS802U-ND	12-Bit, 10MHz Sampling ADC	28-SOIC	18.90	17.64	16.38
ADS803E	ADS803E-ND	12-Bit, 5MHz Sampling ADC	28-SSOP	12.33	11.10	9.85
ADS804E	ADS804E-ND	12-Bit, 10MHz Sampling ADC	28-SSOP	15.33	13.80	12.24
ADS805E	ADS805E-ND	12-Bit, 20MHz Sampling ADC	28-SSOP	16.49	14.85	13.17
ADS807E	ADS807E-ND	12-Bit, 53MHz ADC	28-SSOP	16.95	15.82	14.69
DEM-ADS807E	296-18423-ND	Evaluation Fixture for ADS807E	—	254.96	—	—
ADS808Y/250	ADS808Y/250CT-ND	12-Bit, 70MSPS Sampling ADC	48-TQFP	32.18	30.03	27.89
ADS808Y/250	ADS808Y/250TR-ND	12-Bit, 70MSPS Sampling ADC	48-TQFP	6837.25/250		
ADS809Y/250	ADS809Y/250CT-ND	12-Bit, 80MSPS Sampling ADC	48-TQFP	41.18	38.43	35.69
ADS809Y/250	ADS809Y/250TR-ND	12-Bit, 80MSPS Sampling ADC	48-TQFP	8749.75/250		
ADS820U	ADS820U-ND	10-Bit, 20MHz Sampling ADC	28-SOIC	11.25	10.13	8.98
ADS821U	ADS821U-ND	10-Bit, 40MHz Sampling ADC	28-SOIC	19.58	18.27	16.97
ADS822E	ADS822E-ND	10-Bit, 40MHz Sampling ADC	28-SSOP	8.75	7.88	6.99
ADS823E	ADS823E-ND	10-Bit, 60MHz Sampling ADC	28-SSOP	13.99	12.60	11.18
DEM-ADS823E	296-18424-ND	Evaluation Fixture for ADS823E	—	190.89	—	—
ADS825E	ADS825E-ND	10-Bit, 40MHz ADC	28-SSOP	8.75	7.88	6.99
ADS826E	ADS826E-ND	10-Bit, 60MHz ADC	28-SSOP	13.99	12.60	11.18
ADS828E	ADS828E-ND	10-Bit, 75MHz ADC	28-SSOP	14.49	13.05	11.58
ADS830E	ADS830E-ND	8-Bit, 60MHz ADC	20-QSOP	5.50	4.40	3.72
ADS830E/2K5	ADS830ETR-ND	8-Bit, 60MHz ADC	20-QSOP	8525.00/2,500		
DEM-ADS830E	296-18425-ND	Demo Board for ADS830E	—	190.89	—	—
ADS831E	ADS831E-ND	8-Bit, 80MHz ADC	20-QSOP	6.30	5.04	4.26
DEM-ADS831E	296-18426-ND	Demo Board for ADS831E	—	190.89	—	—
ADS850Y/2K5	ADS850YCT-ND	14-Bit, 10MSPS Self-Calibrating ADC	48-TQFP	27.75	25.90	24.05
ADS850Y/2K5	ADS850YTR-ND	14-Bit, 10MSPS Self-Calibrating ADC	48-TQFP	5897.00/250		
ADS900E	ADS900E-ND	10-Bit, 20MHz +3V, Supply ADC with Internal Ref	28-SSOP	7.10	5.68	4.80
DEM-ADS9XXE	296-18427-ND	Demo Board for ADS900 Series	—	190.89	—	—
ADS901E	ADS901E-ND	10-Bit, 20MHz +3V, Supply ADC	28-SSOP	6.80	5.44	4.59
ADS930E	ADS930E-ND	8-Bit, 30MHz Sampling ADC with Internal Ref	28-SSOP	5.18	4.14	3.22
ADS931E	ADS931E-ND	8-Bit, 30MHz Sampling ADC	28-SSOP	4.95	3.96	3.08

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADS1100A0IDBVT	296-12966-1-ND	16-Bit ADC, Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A0IDBVT	296-12966-2-ND	16-Bit ADC, Self-Calibrating	SOT-23-6		665.00/250	
ADS1100A1IDBVT	296-14298-1-ND	16-Bit ADC, Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A1IDBVT	296-14298-2-ND	16-Bit ADC, Self-Calibrating	SOT-23-6		665.00/250	
ADS1100A2IDBVT	296-14299-1-ND	16-Bit ADC, Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A2IDBVT	296-14299-2-ND	16-Bit ADC, Self-Calibrating	SOT-23-6		665.00/250	
ADS1100A3IDBVT	296-14300-1-ND	16-Bit ADC, Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A3IDBVT	296-14300-2-ND	16-Bit ADC, Self-Calibrating	SOT-23-6		665.00/250	
ADS1100A4IDBVT	296-14301-1-ND	16-Bit ADC, Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A4IDBVT	296-14301-2-ND	16-Bit ADC, Self-Calibrating	SOT-23-6		665.00/250	
ADS1100A5IDBVT	296-14302-1-ND	16-Bit ADC, Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A5IDBVT	296-14302-2-ND	16-Bit ADC, Self-Calibrating	SOT-23-6		665.00/250	
ADS1100A6IDBVT	296-14303-1-ND	16-Bit ADC, Self-Calibrating	SOT-23-6	4.50	3.60	2.80
ADS1100A6IDBVT	296-14303-2-ND	16-Bit ADC, Self-Calibrating	SOT-23-6		665.00/250	
ADS1110A0IDBVT	296-14461-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A0IDBVT	296-14461-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6		715.00/250	
ADS1110A1IDBVT	296-14462-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A1IDBVT	296-14462-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6		715.00/250	
ADS1110A2IDBVT	296-14463-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A2IDBVT	296-14463-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6		715.00/250	
ADS1110A3IDBVT	296-14464-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A3IDBVT	296-14464-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6		715.00/250	
ADS1110A4IDBVT	296-14465-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A4IDBVT	296-14465-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6		715.00/250	
ADS1110A5IDBVT	296-14466-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A5IDBVT	296-14466-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6		715.00/250	
ADS1110A6IDBVT	296-14467-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A6IDBVT	296-14467-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6		715.00/250	
ADS1110A7IDBVT	296-14468-1-ND	16-Bit ADC with Onboard Ref.	SOT-23-6	4.84	3.87	3.01
ADS1110A7IDBVT	296-14468-2-ND	16-Bit ADC with Onboard Ref.	SOT-23-6		715.00/250	
ADS1110EVM	296-18356-ND	Evaluation Module for ADS1110	—	62.78	—	—
ADS1112IDGST	296-15334-1-ND	16-Bit ADC with Input Mux/Onboard Reference	10-MSOP	5.90	4.72	3.99
ADS1112IDGST	296-15334-2-ND	16-Bit ADC with Input Mux/Onboard Reference	10-MSOP		958.75/250	
ADS1112IDRCT	296-15761-1-ND	16-Bit ADC with Input Mux/Onboard Reference	10-SON	5.90	4.72	3.99
ADS1112IDRCT	296-15761-2-ND	16-Bit ADC with Input Mux/Onboard Reference	10-SON		958.75/250	
ADS1201U	ADS1201U-ND	High Dynamic Range Modulator	16-SOIC	10.25	9.23	8.18
ADS1202EVM	296-18357-ND	Evaluation Module for ADS1202	—	62.78	—	—
ADS1202IPWT	296-14064-1-ND	1-Bit, 10MHz Delta-Sigma Modulator	8-TSSOP	5.50	4.40	3.72
ADS1202IPWT	296-14064-2-ND	1-Bit, 10MHz Delta-Sigma Modulator	8-TSSOP		893.75/250	
ADS1203IPWT	296-17152-1-ND	1-Bit, 10MHz Delta-Sigma Modulator	8-TSSOP	6.00	4.80	4.05
ADS1203IPWT	296-17152-2-ND	1-Bit, 10MHz Delta-Sigma Modulator	8-TSSOP		975.00/250	
ADS1203IRGTT	296-17908-1-ND	1-Bit, 10MHz Delta-Sigma Modulator	16-QFN	6.00	4.80	4.05
ADS1203IRGTT	296-17908-2-ND	1-Bit, 10MHz Delta-Sigma Modulator	16-QFN		975.00/250	
ADS1204IRHBT	296-17187-1-ND	Four 1-Bit, 10MHz Delta-Sigma Modulator	32-QFN	12.41	11.18	9.91
ADS1204IRHBT	296-17187-2-ND	Four 1-Bit, 10MHz Delta-Sigma Modulator	32-QFN		2374.75/250	
ADS1205IRGET	296-18193-1-ND	Two 1-Bit, 10MHz, 2nd-Order Delta-Sigma Modulator	24-QFN	8.70	6.96	5.88
ADS1205IRGET	296-18193-2-ND	Two 1-Bit, 10MHz, 2nd-Order Delta-Sigma Modulator	24-QFN		1413.75/250	
ADS1208IPW	296-17889-5-ND	2nd-Order Delta-Sigma Modulator	16-TSSOP	5.90	4.72	3.99
ADS1210P	ADS1210P-ND	24-Bit, Delta-Sigma ADC	18-Dip	17.33	16.17	15.02
ADS1210U	ADS1210U-ND	24-Bit, Delta-Sigma ADC	18-SOIC	16.50	15.40	14.30
ADS1211E	ADS1211E-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	28-SSOP	18.00	16.80	15.60
ADS1211P	ADS1211P-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-Dip	18.90	17.64	16.38
ADS1211U	ADS1211U-ND	24-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-SOIC	18.00	16.80	15.60
ADS1212P	ADS1212P-ND	22-Bit, Delta-Sigma ADC	18-Dip	15.74	14.18	12.57
ADS1212U	ADS1212U-ND	22-Bit, Delta-Sigma ADC	18-SOIC	14.99	13.50	11.97
ADS1213E	ADS1213E-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	28-SSOP	15.00	14.00	13.00
ADS1213P	ADS1213P-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-Dip	15.75	14.70	13.65
ADS1213U	ADS1213U-ND	22-Bit, Delta-Sigma ADC with 4-Channel Input Mux	24-SOIC	15.00	14.00	13.00
ADS1216Y/250	ADS1216Y/250CT-ND	24-Bit, Delta-Sigma ADC	48-TQFP	9.16	8.25	7.32
ADS1216Y/250	ADS1216Y/250TR-ND	24-Bit, Delta-Sigma ADC	48-TQFP		1753.25/250	
ADS1217IPFBT	296-12967-1-ND	24-Bit, 8-Channel Delta-Sigma ADC	48-TQFP	9.16	8.25	7.32
ADS1217IPFBT	296-12967-2-ND	24-Bit, 8-Channel Delta-Sigma ADC	48-TQFP		1753.25/250	
ADS1218Y/250	ADS1218Y/250CT-ND	24-Bit, Delta-Sigma ADC	48-TQFP	9.16	8.25	7.32
ADS1218Y/250	ADS1218Y/250TR-ND	24-Bit, Delta-Sigma ADC	48-TQFP		1753.25/250	
ADS1222IPWT	296-17321-1-ND	24-Bit ADC with 2-Channel Mux	14-TSSOP	6.50	5.20	4.39
ADS1222IPWT	296-17321-2-ND	24-Bit ADC with 2-Channel Mux	14-TSSOP		1056.25/250	
ADS1224EVM	296-16984-ND	Evaluation Module for ADS1224	—	62.78	58.59	54.41
ADS1224IPWT	296-16923-1-ND	24-Bit ADC Converter with 4-Channel Differential Input Mux	20-TSSOP	7.20	5.76	4.86
ADS1224IPWT	296-16923-2-ND	24-Bit ADC Converter with 4-Channel Differential Input Mux	20-TSSOP		1170.00/250	
ADS1232IPW	296-18589-5-ND	24-Bit ADC Converter	24-TSSOP	7.80	6.24	5.27
ADS1234IPW	296-18673-5-ND	24-Bit ADC Converter	28-TSSOP	9.00	7.20	6.08
ADS1240E	ADS1240E-ND	24-Bit, Delta-Sigma ADC	24-SSOP	7.60	6.08	5.13
ADS1241E	ADS1241E-ND	24-Bit, Delta-Sigma ADC	28-SSOP	8.40	6.72	5.67
ADS1241MEVM	296-18358-ND	Evaluation Module for ADS1241M	—	62.78	—	—
ADS1242IPWT	ADS1242IPWTCT-ND	24-Bit, Delta-Sigma ADC	16-TSSOP	8.00	6.40	5.40
ADS1242IPWT	ADS1242IPWTTR-ND	24-Bit, Delta-Sigma ADC	16-TSSOP		1300.00/250	
ADS1243IPWT	ADS1243IPWTCT-ND	24-Bit, Delta-Sigma ADC	20-TSSOP	8.70	6.96	5.88
ADS1243IPWT	ADS1243IPWTTR-ND	24-Bit, Delta-Sigma ADC	20-TSSOP		1413.75/250	
ADS1244EVM	296-18359-ND	Evaluation Module for ADS1244	—	62.78	—	—
ADS1244IDGST	296-14003-1-ND	24-Bit, Low Power ADC	10-MSOP	6.50	5.20	4.39
ADS1244IDGST	296-14003-2-ND	24-Bit, Low Power ADC	10-MSOP		1056.25/250	
ADS1245IDGST	296-15742-1-ND	24-Bit, Low Power ADC	10-MSOP	6.90	5.52	4.66
ADS1245IDGST	296-15742-2-ND	24-Bit, Low Power ADC	10-MSOP		1121.25/250	
ADS1250U	ADS1250U-ND	20-Bit, 25KHz ADC, DSP Interface	16-SOIC	11.58	10.43	9.25
ADS1251U	ADS1251U-ND	24-Bit, 20MSPS, Low Power ADC	8-SOIC	9.33	8.40	7.45
ADS1252U	ADS1252U-ND	24-Bit, 40KHz ADC	8-SOIC	9.33	8.40	7.45
ADS1253E/2K5	296-13060-1-ND	24-Bit, 20KHz, Low Power ADC	16-SSOP	11.16	10.05	8.92
ADS1253E/2K5	296-13060-2-ND	24-Bit, 20KHz, Low Power ADC	16-SSOP		20352.50/2,500	
ADS1254E	ADS1254E-ND	24-Bit, 20KHz, Low Power ADC	20-SSOP	11.16	10.05	8.92
ADS1254E/2K5	ADS1254E/2K5CT-ND	24-Bit, 20KHz, Low Power ADC	20-SSOP	11.16	10.05	8.92
ADS1254E/2K5	ADS1254E/2K5TR-ND	24-Bit, 20KHz, Low Power ADC	20-SSOP		20352.50/2,500	
ADS1255IDBT	296-15743-1-ND	24-Bit, 30KSPS, Low Noise ADC	20-SSOP	11.91	10.73	9.51
ADS1255IDBT	296-15743-2-ND	24-Bit, 30KSPS, Low Noise ADC	20-SSOP		2279.00/250	
ADS1256EVM	296-18360-ND	Evaluation Module for ADS1256	—	62.78	—	—
ADS1256IDBT	296-15208-1-ND	24-Bit, Low Noise ADC	28-SSOP	12.74	11.48	10.18
ADS1256IDBT	296-15208-2-ND	24-Bit, Low Noise ADC	28-SSOP		2438.50/250	
ADS1258IRTCT	296-18674-1-ND	24-Bit, 16-Channel, ADC	48-QFN	14.58	13.13	11.64
ADS1258IRTCT	296-18674-2-ND	24-Bit, 16-Channel, ADC	48-QFN		2789.00/250	
ADS1271EVM	296-18361-ND	Evaluation Module for ADS1271	—	62.78	—	—
ADS1271EVM-PDK	296-18362-ND	Evaluation Module for ADS1271-PDK	—	190.89	—	—
ADS1271IPW	296-17513-5-ND	24-Bit, Wide Bandwidth ADC	16-TSSOP	9.83	8.85	7.85
ADS1286P	ADS1286P-ND	12-Bit, Micropower Sampling ADC	8-Dip	6.66	5.33	4.50
ADS1286PA	ADS1286PA-ND	12-Bit, 200KHz Unipol ADC	8-Dip	7.22	5.78	4.88
ADS1286U	ADS1286U-ND	12-Bit, Micropower Sampling ADC	8-SOIC	5.32	4.26	3.60
ADS1286UA	ADS1286UA-ND	12-Bit, 200KHz Unipol ADC	8-SOIC	5.90	4.72	3.99
ADS1601EVM	296-17825-ND	Evaluation Board for ADS1601	—	254.96	—	—
ADS1601IPFBT	296-17631-1-ND	16-Bit, 1.25MSPS ADC	48-TQFP	21.38	19.95	18.53
ADS1601IPFBT	296-17631-2-ND	16-Bit, 1.25MSPS ADC	48-TQFP		4542.25/250	
ADS1602IPFBT	296-17890-1-ND	16-Bit, 2.5MSPS ADC	48-TQFP	32.93	30.73	28.54
ADS1602IPFBT	296-17890-2-ND	16-Bit, 2.5MSPS ADC	48-TQFP		6996.50/250	
ADS1605EVM	296-18363-ND	Evaluation Module for ADS1605	—	190.89	—	—
ADS1605IPAPT	296-14643-1-ND	16-Bit, 5MSPS ADC	64-HTQFP	41.18	38.43	35.69
ADS1605IPAPT	296-14643-2-ND	16-Bit, 5MSPS ADC	64-HTQFP		8749.75/250	
ADS1606EVM	296-16735-ND	Evaluation Module For ADS1606	—	190.89	—	—
ADS1606IPAPT	296-15759-1-ND	16-Bit, 5MSPS ADC	64-HTQFP	42.45	39.62	36.79
ADS1606IPAPT	296-15759-2-ND	16-Bit, 5MSPS ADC	64-HTQFP		9020.75/250	
ADS1625EVM	296-18364-ND	Evaluation Module for ADS1625	—	190.89	—	—
ADS1625IPAPT	296-15209-1-ND	18-Bit, 1.25MSPS ADC	64-HTQFP	41.18	38.43	35.69
ADS1625IPAPT	296-15209-2-ND	18-Bit, 1.25MSPS ADC	64-HTQFP		8749.75/250	
ADS1626EVM	296-16740-ND	Evaluation Module For ADS1626	—	190.89	—	—
ADS1626IPAPT	296-15877-5-ND	18-Bit, 1.25MSPS ADC	64-HTQFP	42.45	39.62	36.79
ADS2806Y/1K5	ADS2806Y/1K5TR-ND	12-Bit, Dual, High Speed ADC	64-HTQFP		26121.00/1,500	
ADS2806Y/250	ADS2806Y/250CT-ND	12-Bit, Dual, High Speed ADC	64-HTQFP	21.15	19.74	18.33
ADS2806Y/250	ADS2806Y/250TR-ND	12-Bit, Dual, High Speed ADC	64-HTQFP		4494.50/250	
ADS2807Y/1K5	ADS2807Y/1K5CT-ND	12-Bit, Dual, High Speed ADC	64-HTQFP	27.08	25.27	23.47
ADS2807Y/1K5	ADS2807Y/1K5TR-ND	12-Bit, Dual, High Speed ADC	64-HTQFP		33438.00/1,500	
ADS5102IPFB	296-13062-ND	1.8V Analog Supply, 10-Bit, 65MSPS, ADC with Internal Reference	48-TQFP	12.74	11.48	10.18
ADS5103IPFB	296-13063-ND	1.8V Analog Supply, 10-Bit, 40MSPS, ADC with Internal Reference	48-TQFP	9.41	8.48	7.52
ADS5120CGHK	ADS5120CGHK-ND	10-Bit, CMOS ADC	257-BGA	54.23	50.61	47.00
ADS5120CZHK	296-19272-ND	8-Channel, 10-Bit, 40MSPS, 1.8V CMOS ADC	257-BGA	58.28	54.39	50.51
ADS5121IGHK	296-15074-ND	8-Channel, 10-Bit, 40MSPS, 1.8V CMOS ADC	257-BGA	58.28	54.39	50.51
ADS5121IZHK	296-19273-ND	8-Channel, 10-Bit, 40MSPS, 1.8V CMOS ADC	257-BGA	58.28	54.39	50.51
ADS5122CGHK	296-15075-ND	8-Channel, 10-Bit, 65MSPS, 1.8V CMOS ADC	257-BGA	64.28	59.99	55.71
ADS5122CZHK	296-19274-ND	8-Channel, 10-Bit, 65MSPS, 1.8V CMOS ADC	257-BGA	69.15	64.54	59.93
ADS5203IPFB	296-13446-ND	3.3V, 10-Bit, Dual 40MSPS Low Power ADC	48-TQFP	16.08	14.48	12.84
ADS5204IPFB	296-13447-ND	3.3V, 10-Bit, Dual 40MSPS Low Power ADC with PGA	48-TQFP	16.58	15.47	14.37
ADS5220PFBT	296-16927-1-ND	12-Bit, 40MSPS ADC	48-TQFP	16.28	15.19	14.11
ADS5220PFBT	296-16927-2-ND	12-Bit, 40MSPS ADC	48-TQFP		3458.50/250	
ADS5221PFBT	296-17557-1-ND	12-Bit, 65MSPS ADC	48-TQFP	23.03	21.49	19.96
ADS5221PFBT	296-17557-2-ND	12-Bit, 65MSPS ADC	48-TQFP		4892.75/250	
ADS5240IPAP	296-17632-ND	12-Bit, 40MSPS, 4-Channel ADC	64-HTQFP	30.00	28.00	26.00
ADS5242IPAP	296-18643-ND	12-Bit, 65MSPS, 4-Channel ADC	64-HTQFP	45.00	42.00	39.00
ADS5270EVM	296-17408-ND	Evaluation Module for ADS5270	—	254.96	—	—
ADS5270IPFP	296-17091-ND	12-Bit, 40MSPS, 8-Ch. ADC	80-HTQFP	66.00	61.60	57.20
ADS5271EVM	296-17409-ND	Evaluation Module for ADS5271	—	254.96	—	—
ADS5271IPFP	296-17153-ND	12-Bit, 50MSPS, 8-Ch. ADC	80-HTQFP	72.00	67.20	62.40
ADS5272IPFP	296-18605-ND	12-Bit, 65MSPS, 8-Ch. ADC	80-HTQFP	82.28	76.79	71.31
ADS5273IPFP	296-18606-ND	12-Bit, 70MSPS, 8-Ch. ADC	80-HTQFP	181.50	169.40	157.30
ADS5277IPFP	296-18309-ND	10-Bit, 65MSPS, 8-Ch. ADC	80-HTQFP	48.00	44.80	41.60
ADS5410IPFB	296-13448-ND	12-Bit, 80MSPS CommsADC ADC	48-TQFP	28.50	26.60	24.70
ADS5411IPJY	296-19394-ND	11-Bit, 105MSPS ADC ***NEW!***	52-HTQFP	38.25	35.70	33.15
ADS5413IPHP	296-18365-ND	Single 12-Bit, 65MSPS IF Sampling ADC	48-HTQFP	23.25	21.70	20.15
ADS5413-11IPHP	296-16972-ND	11-Bit, 65MSPS, High IF Sampling ADC	48-TQFP	22.13	20.65	19.18
ADS5421Y/T	ADS5421Y/TCT-ND	14-Bit, 40MHz, LP ADC	64-LQFP	30.23	28.21	26.20
ADS5421Y/T	ADS5421Y/TTR-ND	14-Bit, 40MHz, LP ADC	64-LQFP		6422.75/250	
ADS5422Y/250	ADS5422Y/250CT-ND	14-Bit, Sampling ADC	64-LQFP	45.68	42.63	39.59
ADS5422Y/250	ADS5422Y/250TR-ND	14-Bit, Sampling ADC	64-LQFP		9706.00/250	
ADS5423EVM	296-17998-ND	Evaluation Board for ADS5423/24	—	148.50	—	—
ADS5423IPJY	296-17802-ND	14-Bit, 80MSPS ADC	52-HTQFP	60.00	56.00	52.00
ADS5424IPJY	296-17758-ND	14-Bit, 105MSPS ADC	52-HTQFP	84.00	78.40	72.80
ADS5440EVM	296-19293-ND	Evaluation Module for ADS5440 ***NEW!***	—	383.07	—	—
ADS5440IPFP	296-19395-ND	13-Bit, 210MSPS ADC ***NEW!***	52-HTQFP	63.00	58.80	54.60
ADS5444EVM	296-19374-ND	Evaluation Module for ADS5444 ***NEW!***	—	383.07	—	—
ADS5444IPFP	296-19536-ND	13-Bit, 250MSPS ADC ***NEW!***	80-HTQFP	88.50	82.60	76.70
ADS5500EVM	296-18366-ND	Evaluation Module for ADS5500	—	254.96	—	—
ADS5500IPAP	296-16924-ND	14-Bit, 125MSPS ADC	64-HTQFP	73.50	68.60	63.70
ADS5500MPAPREP	296-19488-1-ND	14-Bit, 125MSPS ADC ***NEW!***	64-HTQFP	285.00	266.00	247.00
ADS5500MPAPREP	296-19488-2-ND	14-Bit, 125MSPS ADC ***NEW!***	64-HTQFP		234650.00/1,000	
ADS5520IPAP	296-17702-ND	12-Bit, 125MSPS ADC	64-HTQFP	41.25	38.50	35.75
ADS5521IPAP	296-17934-ND	12-Bit, 105MSPS ADC	64-HTQFP	34.50	32.20	29.90
ADS5522IPAP	296-17826-ND	12-Bit, 80MSPS ADC	64-HTQFP	25.05	23.38	21.71
ADS5541IPAP	296-17999-ND	14-Bit, 105MSPS ADC	64-HTQFP	61.50	57.40	53.30
ADS5542IPAP	296-17852-ND	14-Bit, 80MSPS ADC	64-HTQFP	37.50	35.00	32.50
ADS5545EVM	296-19452-ND	Evaluation Module for ADS5545 ***NEW!***	—	383.07	—	—

(Continued)

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Part No.	Part No.	Description	Pkg.	1	25	100
ADS5553IPFP	296-17827-ND	Dual 14-Bit, 65MSPS ADC	80-HTQFP	45.00	42.00	39.00
ADS7800JP	ADS7800JP-ND	12-Bit, 3µS Sampling ADC	24-Dip	45.08	42.07	39.07
ADS7800JU	ADS7800JU-ND	12-Bit, 3µS Sampling ADC	24-SOIC	45.08	42.07	39.07
ADS7800KP	ADS7800KP-ND	12-Bit, 3µS Sampling ADC	24-Dip	54.15	50.54	46.93
ADS7800KU	ADS7800KU-ND	12-Bit, 3µS Sampling ADC	24-SOIC	54.15	50.54	46.93
ADS7804P	ADS7804P-ND	12-Bit, 10µS Sampling CMOS ADC	28-Dip	22.13	20.65	19.18
ADS7804PB	ADS7804PB-ND	12-Bit, 10µS Sampling CMOS ADC	28-Dip	29.33	27.37	25.42
ADS7804U	ADS7804U-ND	12-Bit, 10µS Sampling CMOS ADC	28-SOIC	21.08	19.67	18.27
ADS7804UB	ADS7804UB-ND	12-Bit, 10µS Sampling CMOS ADC	28-SOIC	28.28	26.39	24.51
ADS7805P	ADS7805P-ND	16-Bit, 10µS Sampling CMOS ADC	28-Dip .3	32.64	30.47	28.29
ADS7805U	ADS7805U-ND	16-Bit, 10µS Sampling CMOS ADC	28-SOIC	31.07	29.00	26.93
ADS7805UB	ADS7805UB-ND	16-Bit, 10µS Sampling CMOS ADC	28-SOIC	41.69	38.91	36.13
ADS7806P	ADS7806P-ND	LP 12-Bit Sampling CMOS ADC	28-Dip	19.13	17.85	16.58
ADS7806U	ADS7806U-ND	LP 12-Bit Sampling CMOS ADC	28-SOIC	19.13	17.85	16.58
ADS7807P	ADS7807P-ND	LP 16-Bit Sampling CMOS ADC	28-Dip .3	43.20	40.32	37.44
ADS7807PB	ADS7807PB-ND	LP 16-Bit Sampling CMOS ADC	28-Dip	51.38	47.95	44.53
ADS7807U	ADS7807U-ND	LP 16-Bit Sampling CMOS ADC	28-SOIC	41.10	38.36	35.62
ADS7807UB	ADS7807UB-ND	LP 16-Bit Sampling CMOS ADC	28-SOIC	49.35	46.06	42.77
ADS7808U	ADS7808U-ND	12-Bit, 10µS Sampling CMOS ADC	20-SOIC	16.28	15.19	14.11
ADS7808UB	ADS7808UB-ND	12-Bit, 10µS Sampling CMOS ADC	20-SOIC	21.83	20.37	18.92
ADS7809EVM	296-17703-ND	Evaluation Module for ADS7809	—	62.78	—	—
ADS7809U	ADS7809U-ND	16-Bit, 10µS Sampling CMOS ADC	20-SOIC	31.07	29.00	26.93
ADS7809UB	ADS7809UB-ND	16-Bit, 10µS Sampling CMOS ADC	20-SOIC	41.69	38.91	36.13
ADS7810U	ADS7810U-ND	12-Bit, 800KHz Sampling CMOS ADC	28-SOIC	41.70	38.92	36.14
ADS7811U	ADS7811U-ND	16-Bit, 250KHz Sampling ADC	28-SOIC	54.23	50.61	47.00
ADS7812P	ADS7812P-ND	LP Serial 12-Bit Sampling ADC	16-Dip	18.60	17.36	16.12
ADS7812U	ADS7812U-ND	LP Serial 12-Bit Sampling ADC	16-SOIC	17.70	16.52	15.34
ADS7813P	ADS7813P-ND	LP Serial 16-Bit Sampling ADC	16-Dip	33.60	31.36	29.12
ADS7813U	ADS7813U-ND	LP Serial 16-Bit Sampling ADC	16-SOIC	31.95	29.82	27.69
ADS7815U	ADS7815U-ND	16-Bit, 250KHz Sampling CMOS ADC	28-SOIC	31.95	29.82	28.76
ADS7816E/250	ADS7816ECT-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	4.59	3.68	2.86
ADS7816E/250	ADS7816ETR-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	678.25/250		
ADS7816EB/250	ADS7816EBCT-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	5.45	4.36	3.39
ADS7816EB/250	ADS7816EBTR-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	804.75/250		
ADS7816EC/250	ADS7816ECCT-ND	12-Bit, 200KHz Micropower Sampling ADC	8-MSOP	5.42	4.34	3.66
ADS7816EC/250	ADS7816ECTR-ND	12-Bit, High Speed Micropower Sampling ADC	8-MSOP	880.75/250		
ADS7816P	ADS7816P-ND	12-Bit, High Speed Micropower Sampling ADC	8-Dip	4.16	3.33	2.59
ADS7816PB	ADS7816PB-ND	12-Bit, High Speed Micropower Sampling ADC	8-Dip	5.02	4.02	3.13
ADS7816PC	ADS7816PC-ND	12-Bit, High Speed Micropower Sampling ADC	8-Dip	5.04	4.04	3.41
ADS7816U	ADS7816U-ND	12-Bit, High Speed Micropower Sampling ADC	8-SOIC	4.16	3.33	2.59
ADS7816UB	ADS7816UB-ND	12-Bit, High Speed Micropower Sampling ADC	8-SOIC	5.02	4.02	3.13
ADS7816UC	ADS7816UC-ND	12-Bit, High Speed Micropower Sampling ADC	8-SOIC	5.04	4.04	3.41
ADS7817ECT/250	ADS7817ECT-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP	4.84	3.87	3.01
ADS7817ETR/250	ADS7817ETR-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP	715.00/250		
ADS7817EB/250	ADS7817EBCT-ND	12-Bit, 200KHz Differential Micropower, Sampling ADC	8-MSOP	5.10	4.08	3.45
ADS7817EB/250	ADS7817EBTR-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP	828.75/250		
ADS7817EC/250	ADS7817ECCT-ND	12-Bit, 200KHz Differential Micropower, Sampling ADC	8-MSOP	5.70	4.56	3.85
ADS7817EC/250	ADS7817ECTR-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-MSOP	926.25/250		
ADS7817U	ADS7817U-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	4.39	3.51	2.73
ADS7817UB	ADS7817UB-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	4.84	3.87	3.01
ADS7817UC	ADS7817UC-ND	12-Bit, Differential Input Micropower, Sampling ADC	8-SOIC	5.30	4.24	3.58
ADS7818E/250	ADS7818ECT-ND	12-Bit, 500KHz ADC (±2 LSB)	8-MSOP	5.50	4.40	3.72
ADS7818E/250	ADS7818ETR-ND	12-Bit, 500KHz ADC (±2 LSB)	8-MSOP	893.75/250		
ADS7818EB/250	ADS7818EBCT-ND	12-Bit, 500KHz ADC (±1 LSB)	8-MSOP	6.50	5.20	4.39
ADS7818EB/250	ADS7818EBTR-ND	12-Bit, 500KHz ADC (±1 LSB)	8-MSOP	1056.25/250		
ADC7818P	ADS7818P-ND	12-Bit, 500KHz ADC (±1 LSB)	8-Dip	5.00	4.00	3.38
ADS7818PB	ADS7818PB-ND	12-Bit, 500KHz ADC (±1 LSB)	8-Dip	6.00	4.80	4.05
ADS7822E/250	ADS7822ECT-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	3.74	2.99	2.33
ADS7822E/250	ADS7822ETR-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	552.00/250		
ADS7822EB/250	ADS7822EBCT-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	4.07	3.26	2.54
ADS7822EB/250	ADS7822EBTR-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	601.75/250		
ADS7822EC/250	ADS7822ECCT-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	4.39	3.51	2.73
ADS7822EC/250	ADS7822ECTR-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-MSOP	648.50/250		
ADS7822EVM	296-18367-ND	Evaluation Module for ADS7822	—	62.78	—	—
ADS7822P	ADS7822P-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-Dip	3.31	2.65	2.06
ADS7822U	ADS7822U-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-SOIC	3.31	2.65	2.06
ADS7822UB	ADS7822UB-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-SOIC	3.74	2.99	2.33
ADS7822UC	ADS7822UC-ND	12-Bit, 2.7V, Micropower Sampling ADC	8-SOIC	4.07	3.26	2.54
ADS7823-28EVM	296-18368-ND	Evaluation Module for ADS7823-28	—	62.78	—	—
ADS7823E/250	ADS7823E/250CT-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP	6.30	5.04	4.26
ADS7823E/250	ADS7823E/250TR-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP	1023.75/250		
ADS7823EB/250	ADS7823EB/250CT-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP	7.50	6.00	5.07
ADS7823EB/250	ADS7823EB/250TR-ND	12-Bit, LP Sampling CMOS ADC	8-MSOP	1218.75/250		

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Part No.	Part No.	Description	Pkg.	1	25	100
ADS7824P	ADS7824P-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-Dip .3	20.70	19.32	17.94
ADS7824PB	ADS7824PB-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-Dip	22.65	21.14	19.63
ADS7824U	ADS7824U-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	19.65	18.34	17.03
ADS7824UB	ADS7824UB-ND	12-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	21.68	20.23	18.79
ADS7825P	ADS7825P-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-Dip .3	46.58	43.47	40.37
ADS7825U	ADS7825U-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	44.33	41.37	38.42
ADS7825UB	ADS7825UB-ND	16-Bit, 4-Ch. Sampling CMOS ADC	28-SOIC	53.25	49.70	46.15
ADS7826EVM	296-18369-ND	Evaluation Module for ADS7826	—	62.78	—	—
ADS7826IDRBT	296-15316-1-ND	10-Bit, 2.7V, Sampling ADC	8-SON	3.15	2.52	1.96
ADS7826IDRBT	296-15316-2-ND	10-Bit, 2.7V, Sampling ADC	8-SON	465.50/250		
ADS7827EVM	296-18370-ND	Evaluation Module for ADS7827	—	62.78	—	—
ADS7827IDRBT	296-15317-1-ND	8-Bit, 2.7V, Sampling ADC	8-SON	2.48	1.98	1.54
ADS7827IDRBT	296-15317-2-ND	8-Bit, 2.7V, Sampling ADC	8-SON	365.75/250		
ADS7828E/250	296-12402-1-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP	7.40	5.92	5.00
ADS7828E/250	296-12402-2-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP	1202.50/250		
ADS7828EB/250	296-12756-1-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP	8.80	7.04	5.94
ADS7828EB/250	296-12756-2-ND	12-Bit, 8-Ch. Sampling CMOS ADC	16-TSSOP	1430.00/250		
ADS7829EVM	296-18371-ND	Evaluation Module for ADS7829	—	62.78	—	—
ADS7829IBDRBT	296-15245-1-ND	12-Bit, 2.7V Sampling HS ADC	8-SON	4.84	3.87	3.01
ADS7829IBDRBT	296-15245-2-ND	12-Bit, 2.7V Sampling HS ADC	8-SON	715.00/250		
ADS7829IDRBT	296-15246-1-ND	12-Bit, 2.7V Sampling HS ADC	8-SON	3.71	2.97	2.31
ADS7829IBDRBT	296-15246-2-ND	12-Bit, 2.7V Sampling HS ADC	8-SON	548.75/250		
ADS7830IPWT	296-16680-1-ND	8-Bit, 8-Channel ADC	16-TSSOP	3.49	2.79	2.17
ADS7830IPWT	296-16680-2-ND	8-Bit, 8-Channel ADC	16-TSSOP	515.50/250		
ADS7834EB/250	ADS7834EBCT-ND	12-Bit, 500KHz LP Sampling ADC	8-MSOP	6.40	5.12	4.32
ADS7834EB/250	ADS7834EBTR-ND	12-Bit, 500KHz LP Sampling ADC	8-MSOP	1040.00/250		
ADS7835E/250	ADS7835ECT-ND	12-Bit, 500KHz Bipolar Sampling ADC, ±2LSB	8-MSOP	6.10	4.88	4.12
ADS7835E/250	ADS7835ETR-ND	12-Bit, 500KHz Bipolar Sampling ADC, ±2LSB	8-MSOP	991.25/250		
ADS7835EB/250	ADS7835EBCT-ND	12-Bit, 500KHz Bipolar Sampling ADC, ±1LSB	8-MSOP	7.20	5.76	4.86
ADS7835EB/250	ADS7835EBTR-ND	12-Bit, 500KHz Bipolar Sampling ADC, ±1LSB	8-MSOP	1170.00/250		
ADS7835EVM	296-18372-ND	Evaluation Module for ADS7835	—	62.78	—	—
ADS7841E	ADS7841E-ND	12-Bit, 4-Channel Serial Output ADC	16-SSOP	5.36	4.29	3.34
ADS7841EB	ADS7841EB-ND	12-Bit, 4-Channel Serial Output ADC	16-SSOP	5.70	4.56	3.85
ADS7841P	ADS7841P-ND	12-Bit, 4-Channel Serial Output ADC	16-Dip	5.04	4.04	3.41
ADS7841PB	ADS7841PB-ND	12-Bit, 4-Channel Serial Output ADC	16-Dip	5.98	4.79	4.04
ADS7842E	ADS7842E-ND	12-Bit, 4-Ch. Parallel Output ADC	28-SSOP	6.20	4.96	4.19
ADS7842EB	ADS7842EB-ND	12-Bit, 4-Ch. Parallel Output ADC	28-SSOP	7.40	5.92	5.00
ADS7843E	ADS7843E-ND	4-Wire Touch Screen Controller	16-SSOP	3.65	2.92	2.27
ADS7844E	ADS7844E-ND	12-Bit, 8-Channel, 200KHz ADC	20-QSOP	5.52	4.42	3.73
ADS7844E/2K5	ADS7844ETR-ND	12-Bit, 8-Channel, 200KHz ADC	20-QSOP	8555.00/2,500		
ADS7844EB	ADS7844EB-ND	12-Bit, 8-Channel, 200KHz ADC	20-QSOP	6.66	5.33	4.50
ADS7844E/2K5	ADS7844EBTR-ND	12-Bit, 8-Channel, 200KHz ADC	20-QSOP	10322.50/2,500		
ADS7844N	ADS7844N-ND	12-Bit, 8-Channel, 200KHz ADC	20-SSOP	5.52	4.42	3.73
ADS7844NB	ADS7844NB-ND	12-Bit, 8-Channel, 200KHz ADC	20-SSOP	6.66	5.33	4.50
ADS7845E	ADS7845E-ND	5-Wire Touch Screen Controller	16-SSOP	8.40	6.72	5.67
ADS7846E	ADS7846E-ND	4-Wire Touch Screen Controller	16-SSOP	4.39	3.51	2.73
ADS7846IGQCR	296-14470-1-ND	4-Wire Touch Screen Controller	48-VFBGA	5.36	4.29	3.34
ADS7846IGQCR	296-14470-2-ND	4-Wire Touch Screen Controller	48-VFBGA	7497.50/2,500		
ADS7846IRGVT	296-15076-1-ND	4-Wire Touch Screen Controller	16-QFN	4.82	3.86	3.00
ADS7846IRGVT	296-15076-2-ND	4-Wire Touch Screen Controller	16-QFN	711.50/250		
ADS7846N	ADS7846N-ND	4-Wire Touch Screen Controller	16-TSSOP	4.39	3.51	2.73
ADS7852Y/250	ADS7852YCT-ND	8-Channel, 12-Bit, Parallel Output ADC, ±2LSB	32-TQFP	7.50	6.00	5.07
ADS7852Y/250	ADS7852YTR-ND	8-Channel, 12-Bit, Parallel Output ADC, ±2LSB	32-TQFP	1218.75/250		
ADS7852YB/250	ADS7852YBCT-ND	8-Channel, 12-Bit, Parallel Output ADC, ±1LSB	32-TQFP	8.90	7.12	6.01
ADS7852YB/250	ADS7852YBTR-ND	8-Channel, 12-Bit, Parallel Output ADC, ±1LSB	32-TQFP	1446.25/250		
ADS7861E	ADS7861E-ND	Dual 12-Bit, 500KHz Simult. Sampling Serial ADC	24-SSOP	8.10	6.48	5.47
ADS7861EB	ADS7861EB-ND	Dual 12-Bit, 500KHz Simult. Sampling Serial ADC, ±1LSB	24-SSOP	9.80	7.84	6.62
ADS7861IBRHBT	296-19570-1-ND	Dual 500KHz, 12-Bit ADC ***NEW!***	32-QFN	8.83	7.95	7.05
ADS7861IBRHBT	296-19570-2-ND	Dual 500KHz, 12-Bit ADC ***NEW!***	32-QFN	1689.50/250		
ADS7861IRHBT	296-19571-1-ND	Dual 500KHz, 12-Bit ADC ***NEW!***	32-QFN	9.00	7.20	6.08
ADS7861IRHBT	296-19571-2-ND	Dual 500KHz, 12-Bit ADC ***NEW!***	32-QFN	1462.50/250		
ADS7862Y/250	ADS7862YCT-ND	Dual 12-Bit, 500KHz Simult. Sampling Parallel ADC, ±2LSB	32-TQFP	10.50	9.45	8.38
ADS7862Y/250	ADS7862YTR-ND	Dual 12-Bit, 500KHz Simult. Sampling Parallel ADC, ±2LSB	32-TQFP	2008.25/250		
ADS7862YB/250	ADS7862YBCT-ND	Dual 12-Bit, 500KHz Simult. Sampling Parallel ADC, ±1LSB	32-TQFP	12.41	11.18	9.91
ADS7862YB/250	ADS7862YBTR-ND	Dual 12-Bit, 500KHz Simult. Sampling Parallel ADC, ±1LSB	32-TQFP	2374.75/250		
ADS7864Y/250	ADS7864YCT-ND	12-Bit, 500KHz, 6-Channel ADC	48-TQFP	12.25	11.03	9.78
ADS7864Y/250	ADS7864YTR-ND	12-Bit, 500KHz, 6-Channel ADC	48-TQFP	2342.75/250		
ADS7864YB/250	ADS7864YBCT-ND	12-Bit, 500KHz, 6-Channel ADC	48-TQFP	13.91	12.53	11.11
ADS7864YB/250	ADS7864YBTR-ND	12-Bit, 500KHz, 6-Channel ADC	48-TQFP	2661.50/250		
ADS7866IDBVT	296-18216-1-ND	1.2V, 12-Bit, 200KSPS, Mini ADC	SOT-23-6	4.61	3.69	2.87
ADS7866IDBVT	296-18216-2-ND	1.2V, 12-Bit, 200KSPS, Mini ADC	SOT-23-6	681.75/250		
ADS7867IDBVT	296-18217-1-ND	1.2V, 10-Bit, 200KSPS, Mini ADC	SOT-23-6	3.49	2.79	2.17
ADS7867IDBVT	296-18217-2-ND	1.2V, 10-Bit, 200KSPS, Mini ADC	SOT-23-6	515.50/250		
ADS7868IDBVT	296-18218-1-ND	1.2V, 8-Bit, 200KSPS, Mini ADC	SOT-23-6	2.25	1.80	1.35
ADS7868IDBVT	296-18218-2-ND	1.2V, 8-Bit, 200KSPS, Mini ADC	SOT-23-6	315.00/250		
ADS7869IPZTR	296-18373-1-ND	Analog Motor Control Front-End	100-TQFP	21.90	20.44	18.98
ADS7869IPZTR	296-18373-2-ND	Analog Motor Control Front-End	100-TQFP	18031.00/1,000		
ADS7870EA	ADS7870EA-ND	12-Bit, Data Acquisition System	28-SSOP	8.30	6.64	5.61
ADS7870EVM	296-18374-ND	Evaluation Module for ADS7870	—	62.78	—	—
ADS7871EVM	296-18375-ND	Evaluation Module for ADS7871	—	62.78	—	—
ADS7871IDB	296-14757-5-ND	14-Bit, 48KSPS DAS with ADC	28-SSOP	8.33	7.50	6.65
ADS7881EVM	296-18376-ND	Evaluation Module for ADS7881	—	126.84	—	—
ADS7881IPFBT	296-15779-1-ND	12-Bit, 4MSPS, Low Power SAR ADC	48-TQFP	13.49	12.15	10.78
ADS7881IPFBT	296-15779-2-ND	12-Bit, 4MSPS, Low Power SAR ADC	48-TQFP	2582.00/250		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ADS7881IRGZT	296-19489-1-ND	12-Bit, 4MSPS, Low Power SAR ADC ***NEW!***	48-QFN	13.49	12.15	10.78
ADS7881IRGZT	296-19489-2-ND	12-Bit, 4MSPS, Low Power SAR ADC ***NEW!***	48-QFN	2582.00/250		
ADS7886SBDBVT	296-19305-1-ND	12-Bit, 1MSPS Micro Power, Mini SAR ADC ***NEW!***	SOT-23-6	4.84	3.87	3.01
ADS7886SBDBVT	296-19305-2-ND	12-Bit, 1MSPS Micro Power, Mini SAR ADC ***NEW!***	SOT-23-6	715.00/250		
ADS7886SBDCKT	296-19306-1-ND	12-Bit, 1MSPS Micro Power, Mini SAR ADC ***NEW!***	SC70-6	4.84	3.87	3.01
ADS7886SBDCKT	296-19306-2-ND	12-Bit, 1MSPS Micro Power, Mini SAR ADC ***NEW!***	SC70-6	715.00/250		
ADS7886SDBVT	296-19307-1-ND	12-Bit, 1MSPS Micro Power, Mini SAR ADC ***NEW!***	SOT-23-6	4.28	3.42	2.66
ADS7886SDBVT	296-19307-2-ND	12-Bit, 1MSPS Micro Power, Mini SAR ADC ***NEW!***	SOT-23-6	631.75/250		
ADS7886SDCKT	296-19308-1-ND	12-Bit, 1MSPS Micro Power, Mini SAR ADC ***NEW!***	SC70-6	4.28	3.42	2.66
ADS7886SDCKT	296-19308-2-ND	12-Bit, 1MSPS Micro Power, Mini SAR ADC ***NEW!***	SC70-6	631.75/250		
ADS7887SDBVT	296-18266-1-ND	10-Bit, 1.25MSPS Micro Power, Mini SAR ADC	SOT-23-6	3.71	2.97	2.31
ADS7887SDBVT	296-18266-2-ND	10-Bit, 1.25MSPS Micro Power, Mini SAR ADC	SOT-23-6	548.75/250		
ADS7887SDCKT	296-18267-1-ND	10-Bit, 1.25MSPS Micro Power, Mini SAR ADC	SC70-6	3.71	2.97	2.31
ADS7887SDCKT	296-18267-2-ND	10-Bit, 1.25MSPS Micro Power, Mini SAR ADC	SC70-6	548.75/250		
ADS7888SDBVT	296-18268-1-ND	8-Bit, 1.25MSPS Micro Power, Mini SAR ADC	SOT-23-6	2.38	1.90	1.43
ADS7888SDBVT	296-18268-2-ND	8-Bit, 1.25MSPS Micro Power, Mini SAR ADC	SOT-23-6	332.50/250		
ADS7888SDCKT	296-18269-1-ND	8-Bit, 1.25MSPS Micro Power, Mini SAR ADC	SC70-6	2.38	1.90	1.43
ADS7888SDCKT	296-18269-2-ND	8-Bit, 1.25MSPS Micro Power, Mini SAR ADC	SC70-6	332.50/250		
ADS7890IPFBT	296-16681-1-ND	14-Bit, 1.25MSPS LP SAR ADC	48-TQFP	15.75	14.70	13.65
ADS7890IPFBT	296-16681-2-ND	14-Bit, 1.25MSPS LP SAR ADC	48-TQFP	3347.00/250		
ADS7891EVM	296-17713-ND	Evaluation Module for ADS7891	—	126.84	—	—
ADS7891IPFBT	296-16682-1-ND	14-Bit, 3MSPS LP SAR ADC	48-TQFP	17.33	16.17	15.02
ADS7891IPFBT	296-16682-2-ND	14-Bit, 3MSPS LP SAR ADC	48-TQFP	3681.50/250		
ADS8320E/250	ADS8320ECT-ND	16-Bit, 2.7V to 5V Micropower Serial ADC, ±2LSB	8-MSOP	9.03	8.13	7.21
ADS8320E/250	ADS8320ETR-ND	16-Bit, 2.7V to 5V Micropower Serial ADC, ±2LSB	8-MSOP	1727.75/250		
ADS8320EB/250	ADS8320EBCT-ND	16-Bit, 2.7V to 5V Micropower Serial ADC, ±1LSB	8-MSOP	10.21	9.20	8.16
ADS8320EB/250	ADS8320EBTR-ND	16-Bit, 2.7V to 5V Micropower Serial ADC, ±1LSB	8-MSOP	1954.00/250		
ADS8321E/250	ADS8321ECT-ND	16-Bit, 100KHz Bipolar ADC	8-MSOP	9.50	8.55	7.59
ADS8321E/250	ADS8321ETR-ND	16-Bit, 100KHz Bipolar ADC	8-MSOP	1817.00/250		
ADS8321EB/250	ADS8321EBCT-ND	16-Bit, 100KHz Bipolar ADC	8-MSOP	10.75	9.68	8.58
ADS8321EB/250	ADS8321EBTR-ND	16-Bit, 100KHz Bipolar ADC	8-MSOP	2056.00/250		
ADS8321EVM	296-18377-ND	Evaluation Module for ADS8321	—	62.78	—	—
ADS8322Y/250CT	ADS8322Y/250CT-ND	16-Bit, 500KHz Unipolar ADC	32-TQFP	13.08	11.78	10.45
ADS8322Y/250TR	ADS8322Y/250TR-ND	16-Bit, 500KHz Unipolar ADC	32-TQFP	2502.25/250		
ADS8322Y/2KCT	ADS8322Y/2KCT-ND	16-Bit, 500KHz Unipolar ADC	32-TQFP	11.83	10.65	9.45
ADS8322Y/2KTR	ADS8322Y/2KTR-ND	16-Bit, 500KHz Unipolar ADC	32-TQFP	17538.00/2,000		
ADS8322YB/250	296-13772-1-ND	16-Bit, 500KHz, Micropower Sampling ADC	32-TQFP	15.99	14.40	12.77
ADS8322YB/250	296-13772-2-ND	16-Bit, 500KHz, Micropower Sampling ADC	32-TQFP	3060.00/250		
ADS8323YB/250	ADS8323YB/250CT-ND	16-Bit, HS Bipolar ADC	32-TQFP	15.99	14.40	12.77
ADS8323YB/250	ADS8323YB/250TR-ND	16-Bit, HS Bipolar ADC	32-TQFP	3060.00/250		
ADS8323Y/250	ADS8323Y/250CT-ND	16-Bit, HS Bipolar ADC	32-TQFP	13.08	11.78	10.45
ADS8323Y/250	ADS8323Y/250TR-ND	16-Bit, HS Bipolar ADC	32-TQFP	2502.25/250		
ADS8324E/250	296-13064-1-ND	14-Bit, HS, 1.8V, Micropower Sampling ADC	8-MSOP	9.20	7.36	6.21
ADS8324E/250	296-13064-2-ND	14-Bit, HS, 1.8V, Micropower Sampling ADC	8-MSOP	1495.00/250		
ADS8325EVM	296-18378-ND	Evaluation Module for ADS8325	—	62.78	—	—
ADS8325IBDGKT	ADS8325IBDGKTCT-ND	16-Bit, Micropower Sampling ADC	8-MSOP	11.71	10.55	9.35
ADS8325IBDGKT	ADS8325IBDGKTTR-ND	16-Bit, Micropower Sampling ADC	8-MSOP	2240.75/250		
ADS8325IBDRBT	296-15722-1-ND	16-Bit, Micropower Sampling ADC	8-SON	11.71	10.55	9.35
ADS8325IBDRBT	296-15722-2-ND	16-Bit, Micropower Sampling ADC	8-SON	2240.75/250		
ADS8341E	ADS8341E-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	12.33	11.10	9.85
ADS8341EB	ADS8341EB-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	14.24	12.83	11.38
ADS8342EVM	296-18379-ND	Evaluation Module for ADS8342	—	126.84	—	—
ADS8342IBPFBT	296-15077-1-ND	16-Bit, 4-Ch. Parallel Output ADC	48-TQFP	22.05	20.58	19.11
ADS8342IBPFBT	296-15077-2-ND	16-Bit, 4-Ch. Parallel Output ADC	48-TQFP	4685.75/250		
ADS8342IPFBT	296-15078-1-ND	16-Bit, 4-Ch. Parallel Output ADC	48-TQFP	18.68	17.43	16.19
ADS8342IPFBT	296-15078-2-ND	16-Bit, 4-Ch. Parallel Output ADC	48-TQFP	3968.50/250		
ADS8343E	ADS8343E-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	12.41	11.18	9.91
ADS8343EB	ADS8343EB-ND	16-Bit, 4-Channel, Serial ADC	16-SSOP	14.33	12.90	11.44
ADS8344E	ADS8344E-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-QSOP	13.33	12.00	10.64
ADS8344EB	ADS8344EB-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-QSOP	15.99	14.40	12.77
ADS8344N	ADS8344N-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-SSOP	13.33	12.00	10.64
ADS8344NB	ADS8344NB-ND	16-Bit, 8-Ch., Serial Sampling ADC	20-SSOP	15.99	14.40	12.77
ADS8361IDBQ	296-13812-5-ND	Dual, 500KHz, 16-Bit, Simultaneous Sampling ADC	24-SSOP	14.58	13.13	11.64
ADS8361IRHBT	296-17411-1-ND	Dual, 500KHz, 16-Bit, Simultaneous Sampling ADC	32-QFN	16.08	14.48	12.84
ADS8361IRHBT	296-17411-2-ND	Dual, 500KHz, 16-Bit, Simultaneous Sampling ADC	32-QFN	3076.00/250		
ADS8364Y/250	296-13449-1-ND	16-Bit, 250KSPS, 6-Ch. Simultaneous Sampling ADC	64-HTQFP	29.93	27.93	25.94
ADS8364Y/250	296-13449-2-ND	16-Bit, 250KSPS, 6-Ch. Simultaneous Sampling ADC	64-HTQFP	6359.06/250		
ADS8370IBRHPT	296-18270-ND	Evaluation Module for ADS8370	—	126.84	—	—
ADS8370IBRHPT	296-18271-1-ND	16-Bit, 600KHz Pseudo-Diff. Input, ADC	28-QFN	28.13	26.25	24.38
ADS8370IBRHPT	296-18271-2-ND	16-Bit, 600KHz Pseudo-Diff. Input, ADC	28-QFN	5976.50/250		
ADS8370IRHPT	296-18272-1-ND	16-Bit, 600KHz Pseudo-Diff. Input, ADC	28-QFN	20.63	19.25	17.88
ADS8370IRHPT	296-18272-2-ND	16-Bit, 600KHz Pseudo-Diff. Input, ADC	28-QFN	4382.75/250		
ADS8371EVM	296-17122-ND	Evaluation Module for ADS8371	—	126.84	—	—
ADS8371IBPFBT	296-16683-1-ND	16-Bit, 750KHz ADC	48-TQFP	24.15	22.54	20.93
ADS8371IBPFBT	296-16683-2-ND	16-Bit, 750KHz ADC	48-TQFP	5132.00/250		
ADS8371IPFBT	296-16684-1-ND	16-Bit, 750KHz ADC	48-TQFP	18.00	16.80	15.60
ADS8371IPFBT	296-16684-2-ND	16-Bit, 750KHz ADC	48-TQFP	3825.00/250		
ADS8372EVM	296-18273-ND	Evaluation Module for ADS8372	—	126.84	—	—
ADS8372IBRHPT	296-18274-1-ND	16-Bit, 600KHz Fully-Diff. Pseudo-Bipolar Input, ADC	28-QFN	29.70	27.72	25.74
ADS8372IBRHPT	296-18274-2-ND	16-Bit, 600KHz Fully-Diff. Pseudo-Bipolar Input, ADC	28-QFN	6311.25/250		
ADS8372IRHPT	296-18275-1-ND	16-Bit, 600KHz Fully-Diff. Pseudo-Bipolar Input, ADC	28-QFN	21.45	20.02	18.59
ADS8372IRHPT	296-18275-2-ND	16-Bit, 600KHz Fully-Diff. Pseudo-Bipolar Input, ADC	28-QFN	4558.25/250		
ADS8380EVM	296-18380-ND	Evaluation Module for ADS8380	—	126.84	—	—
ADS8380IBRHPT	296-17633-1-ND	18-Bit, 600KHz ADC	28-QFN	33.60	31.36	29.12
ADS8380IBRHPT	296-17633-2-ND	18-Bit, 600KHz ADC	28-QFN	7140.00/250		
ADS8380IRHPT	296-17634-1-ND	18-Bit, 600KHz ADC	28-QFN	27.23	25.41	23.60
ADS8380IRHPT	296-17634-2-ND	18-Bit, 600KHz ADC	28-QFN	5785.25/250		
ADS8381EVM	296-17397-ND	Evaluation Module for ADS8381	—	126.84	—	—
ADS8381IBPFBT	296-16685-1-ND	18-Bit, 580KHz ADC	48-TQFP	32.48	30.31	28.15
ADS8381IBPFBT	296-16685-2-ND	18-Bit, 580KHz ADC	48-TQFP	6901.00/250		
ADS8381IPFBT	296-16686-1-ND	18-Bit, 580KHz ADC	48-TQFP	27.53	25.69	23.86
ADS8381IPFBT	296-16686-2-ND	18-Bit, 580KHz ADC	48-TQFP	5849.00/250		
ADS8382EVM	296-17514-ND	Evaluation Module for ADS8382	—	126.84	—	—
ADS8382IBRHPT	296-17519-1-ND	18-Bit, 600KHz MPU Sampling ADC	28-QFN	35.18	32.83	30.49
ADS8382IBRHPT	296-17519-2-ND	18-Bit, 600KHz MPU Sampling ADC	28-QFN	7474.75/250		
ADS8382IRHPT	296-17520-1-ND	18-Bit, 600KHz MPU Sampling ADC	28-QFN	27.98	26.11	24.25
ADS8382IRHPT	296-17520-2-ND	18-Bit, 600KHz MPU Sampling ADC	28-QFN	5944.75/250		
ADS8383EVM	296-18381-ND	Evaluation Module for ADS8383	—	126.84	—	—
ADS8383IBPFBT	296-14065-1-ND	18-Bit, 500KHz Unipolar Input ADC	48-TQFP	31.73	29.61	27.50
ADS8383IBPFBT	296-14065-2-ND	18-Bit, 500KHz Unipolar Input ADC	48-TQFP	6741.50/250		
ADS8383IPFBT	296-14066-1-ND	18-Bit, 500KHz Unipolar Input ADC	48-TQFP	23.63	22.05	20.48
ADS8383IPFBT	296-14066-2-ND	18-Bit, 500KHz Unipolar Input ADC	48-TQFP	5020.25/250		
ADS8401EVM	296-18382-ND	Evaluation Module for ADS8401	—	126.84	—	—
ADS8401IBPFBT	296-14067-1-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	34.88	32.55	30.23
ADS8401IBPFBT	296-14067-2-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	7411.00/250		
ADS8401IPFBT	296-14068-1-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	20.78	19.39	18.01
ADS8401IPFBT	296-14068-2-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	4414.75/250		
ADS8402EVM	296-18383-ND	Evaluation Module for ADS8402	—	190.89	—	—
ADS8402IBPFBT	296-14069-1-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	36.53	34.09	31.66
ADS8402IBPFBT	296-14069-2-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	7761.50/250		
ADS8402IPFBT	296-14070-1-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	21.75	20.30	18.85
ADS8402IPFBT	296-14070-2-ND	16-Bit, 1.25MSPS Unipolar Input ADC	48-TQFP	4622.00/250		
ADS8405EVM	296-17635-ND	Evaluation Module for ADS8405	—	126.84	—	—
ADS8405IBPFBT	296-17636-1-ND	16-Bit, 1.25MSPS ADC	48-TQFP	37.43	34.93	32.44
ADS8405IBPFBT	296-17636-2-ND	16-Bit, 1.25MSPS ADC	48-TQFP	7952.75/250		
ADS8405IPFBT	296-17637-1-ND	16-Bit, 1.25MSPS ADC	48-TQFP	23.33	21.77	20.22
ADS8405IPFBT	296-17637-2-ND	16-Bit, 1.25MSPS ADC	48-TQFP	4956.50/250		
ADS8406EVM	296-17410-ND	Evaluation Module for ADS8406	—	126.84	—	—
ADS8406IBPFBT	296-17355-ND	16-Bit, 1.25MSPS Sampling ADC	48-TQFP	39.00	36.40	33.80
ADS8406IPFBT	296-17356-ND	16-Bit, 1.25MSPS Sampling ADC	48-TQFP	24.30	22.68	21.06
ADS8410IBRGZT	296-19453-1-ND	16-Bit, 2MSPS, LVDS Serial Interface, SAR ADC ***NEW!***	48-QFN	49.20	45.92	42.64
ADS8410IBRGZT	296-19453-2-ND	16-Bit, 2MSPS, LVDS Serial Interface, SAR ADC ***NEW!***	48-QFN	10455.00/250		
ADS8410IRGZT	296-19454-1-ND	16-Bit, 2MSPS, LVDS Serial Interface, SAR ADC ***NEW!***	48-QFN	37.95	35.42	32.89
ADS8410IRGZT	296-19454-2-ND	16-Bit, 2MSPS, LVDS Serial Interface, SAR ADC ***NEW!***	48-QFN	8064.50/250		
ADS8411EVM	296-18384-ND	Evaluation Module for ADS8411	—	126.84	—	—
ADS8411IBPFBT	296-15252-1-ND	16-Bit, 2MSPS Unipolar Input ADC	48-TQFP	47.55	44.38	41.21
ADS8411IBPFBT	296-15252-2-ND	16-Bit, 2MSPS Unipolar Input ADC	48-TQFP	10104.50/250		
ADS8411IPFBT	296-15253-1-ND	16-Bit, 2MSPS Unipolar Input ADC	48-TQFP	36.30	33.88	31.46
ADS8411IPFBT	296-15253-2-ND	16-Bit, 2MSPS Unipolar Input ADC	48-TQFP	7713.75/250		
ADS8412EVM	296-18385-ND	Evaluation Module for ADS8412	—	190.89	—	—
ADS8412IBPFBT	296-15254-1-ND	16-Bit, 2MSPS Unipolar Differential Input ADC	48-TQFP	49.80	46.48	43.16
ADS8412IBPFBT	296-15254-2-ND	16-Bit, 2MSPS Unipolar Differential Input ADC	48-TQFP	10582.50/250		
ADS8412IPFBT	296-15255-1-ND	16-Bit, 2MSPS Unipolar Differential Input ADC	48-TQFP	38.10	35.56	33.02
ADS8412IPFBT	296-15255-2-ND	16-Bit, 2MSPS Unipolar Differential Input ADC	48-TQFP	8096.25/250		
ADS8413IBRGZT	296-19396-1-ND	16-Bit, 2MSPS, LVDS Serial Interface SAR ADC ***NEW!***	48-QFN	51.53	48.09	44.66
ADS8413IBRGZT	296-19396-2-ND	16-Bit, 2MSPS, LVDS Serial Interface SAR ADC ***NEW!***	48-QFN	10949.00/250		
ADS8413IRGZT	296-19397-1-ND	16-Bit, 2MSPS, LVDS Serial Interface SAR ADC ***NEW!***	48-QFN	39.75	37.10	34.45
ADS8413IRGZT	296-19397-2-ND	16-Bit, 2MSPS, LVDS Serial Interface SAR ADC ***NEW!***	48-QFN	8447.00/250		
ADS8504IBDW	296-18219-5-ND	12-Bit, 250KSPS Sampling CMOS ADC	28-SOIC	15.75	14.70	13.65
ADS8505IBDB	296-18675-5-ND	16-Bit, 250KSPS Sampling CMOS ADC	28-SSOP	37.50	35.00	32.50
ADS8505IBDW	296-18676-5-ND	16-Bit, 250KSPS Sampling CMOS ADC	28-SOIC	37.50	35.00	32.50
ADS8505IDB	296-18677-5-ND	16-Bit, 250KSPS Sampling CMOS ADC	28-SSOP	19.43	18.13	16.84
ADS8505IDW	296-18678-5-ND	16-Bit, 250KSPS Sampling CMOS ADC	28-SOIC	19.43	18.13	16.84

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADS8508IBDW	296-18679-5-ND	12-Bit, 250KSPS Serial CMOS Sampling ADC	20-SOIC	15.75	14.70	13.65
ADS8509IBDB	296-18084-5-ND	16-Bit, 250KSPS Serial CMOS ADC	28-SSOP	37.50	35.00	32.50
ADS8509IBDW	296-18085-5-ND	16-Bit, 250KSPS Serial CMOS ADC	20-SOIC	37.50	35.00	32.50
ADS8509IDB	296-18086-5-ND	16-Bit, 250KSPS Serial CMOS ADC	28-SSOP	19.43	18.13	16.84
ADS8509IDW	296-18087-5-ND	16-Bit, 250KSPS Serial CMOS ADC	20-SOIC	19.43	18.13	16.84
AFE1230E	AFE1230E-ND	G.SHDSL/HDSL2 Analog Front End	28-SSOP	22.95	21.42	19.89
AFE8406IZDQ	296-19537-ND 296-19537-ND	14-Bit, 85MSPS Dual ADC, 8-Channel Wideband Receiver ***NEW!***	484-BGA	96.00	89.60	83.20
DDC101U	DDC101U-ND	20-Bit, ADC	24-SOIC	37.50	35.00	32.50
DDC112U	DDC112U-ND	20-Bit, 2-Channel, I-Input ADC	28-SOIC	18.15	16.94	15.73
DEM-DDC112U-C	296-18429-ND	Evaluation Fixture for DDC112U	—	383.07	—	—
DDC112UK	DDC112UK-ND	20-Bit, 2-Channel, I-Input ADC	28-SOIC	23.40	21.84	20.28
DDC112Y/250	296-16747-1-ND	20-Bit Dual Current Input ADC	32-TQFP	20.10	18.76	17.42
DDC112Y/250	296-16747-2-ND	20-Bit Dual Current Input ADC	32-TQFP	4271.25/250		
DDC114IRTCT	296-17162-1-ND	20-Bit Quad Input ADC	48-QFN	27.00	25.20	23.40
DDC114IRTCT	296-17162-2-ND	20-Bit Quad Input ADC	48-QFN	5737.50/250		
DDC118IRTCT	296-18258-1-ND	20-Bit Octal Current ADC	48-QFN	52.80	49.28	45.76
DDC118IRTCT	296-18258-2-ND	20-Bit Octal Current ADC	48-QFN	11220.00/250		
DEM-CIB	296-18428-ND	Evaluation Fixture Computer Interface Board	—	639.30	—	—
MSC1200EVM	296-18498-ND	Evaluation Module for MSC1200	—	126.84	—	—
MSC1200Y2PFBT	296-16792-1-ND	Precision ADC/DAC Converter with 8051 Microcontroller	48-TQFP	10.91	9.83	8.72
MSC1200Y2PFBT	296-16792-2-ND	Precision ADC/DAC Converter with 8051 Microcontroller	48-TQFP	2087.75/250		
MSC1200Y3PFBT	296-16793-1-ND	Precision ADC/DAC Converter with 8051 Microcontroller	48-TQFP	11.83	10.65	9.45
MSC1200Y3PFBT	296-16793-2-ND	Precision ADC/DAC Converter with 8051 Microcontroller	48-TQFP	2263.25/250		
MSC1201EVM	296-18499-ND	Evaluation Module for MSC1201	—	126.84	—	—
MSC1201Y3RHHT	296-18074-1-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	10.91	9.83	8.72
MSC1201Y3RHHT	296-18074-2-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	2087.75/250		
MSC1202EVM	296-17805-ND	Evaluation Module for MSC1201/02	—	126.84	—	—
MSC1202Y2RHHT	296-17956-1-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	8.50	7.65	6.79
MSC1202Y2RHHT	296-17956-2-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	1625.75/250		
MSC1202Y3RHHT	296-18075-1-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	9.08	8.18	7.25
MSC1202Y3RHHT	296-18075-2-ND	Precision, ADC/DAC with 8051 Microcontroller and Flash Memory	36-QFN	1737.25/250		
MSC1210Y2PAGT	MSC1210Y2PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	14.91	13.43	11.91
MSC1210Y3PAGT	MSC1210Y3PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	16.13	15.05	13.98
MSC1210Y4PAGT	MSC1210Y4PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	16.13	15.05	13.98
MSC1210Y5PAGT	MSC1210Y5PAGT-ND	Prec. ADC with 8051 Microcontroller and Flash Memory	64-TQFP	18.00	16.80	15.60
MSC1211EVM	296-18500-ND	Evaluation Module for MSC1211	—	126.84	—	—
MSC1211Y2PAGT	296-14759-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	26.25	24.50	22.75
MSC1211Y2PAGT	296-14759-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	5578.25/250		
MSC1211Y3PAGT	296-14760-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	26.93	25.13	23.34
MSC1211Y3PAGT	296-14760-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	5721.50/250		
MSC1211Y4PAGT	296-14761-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	29.03	27.09	25.16
MSC1211Y4PAGT	296-14761-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	6167.75/250		
MSC1211Y5PAGT	296-14762-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	31.43	29.33	27.24
MSC1211Y5PAGT	296-14762-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	6677.75/250		
MSC1212Y2PAGT	296-14763-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	25.43	23.73	22.04
MSC1212Y2PAGT	296-14763-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	5402.75/250		
MSC1212Y3PAGT	296-14764-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	26.33	24.57	22.82
MSC1212Y3PAGT	296-14764-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	5594.00/250		
MSC1212Y4PAGT	296-14765-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	28.28	26.39	24.51
MSC1212Y4PAGT	296-14765-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	6008.50/250		
MSC1212Y5PAGT	296-14766-1-ND	8051 CPU Precision ADC/DAC	64-TQFP	33.68	31.43	29.19
MSC1212Y5PAGT	296-14766-2-ND	8051 CPU Precision ADC/DAC	64-TQFP	7156.00/250		
MSC1213Y2PAGT	296-17429-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	18.98	17.71	16.45
MSC1213Y2PAGT	296-17429-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4032.25/250		
MSC1213Y3PAGT	296-17430-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	19.80	18.48	17.16
MSC1213Y3PAGT	296-17430-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4207.50/250		
MSC1213Y4PAGT	296-17431-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	21.68	20.23	18.79
MSC1213Y4PAGT	296-17431-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4606.00/250		
MSC1213Y5PAGT	296-17432-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	23.93	22.33	20.74
MSC1213Y5PAGT	296-17432-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	5084.00/250		
MSC1214Y2PAGT	296-17433-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	18.23	17.01	15.80
MSC1214Y2PAGT	296-17433-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	3872.75/250		
MSC1214Y3PAGT	296-17434-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	19.05	17.78	16.51
MSC1214Y3PAGT	296-17434-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4048.25/250		
MSC1214Y4PAGT	296-17435-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	20.93	19.53	18.14
MSC1214Y4PAGT	296-17435-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4446.50/250		
MSC1214Y5PAGT	296-17436-1-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	23.18	21.63	20.09
MSC1214Y5PAGT	296-17436-2-ND	Precision ADC/DAC with 8051 Microcontroller	64-TQFP	4924.75/250		
THS14F01IPFB	296-2843-ND	14-Bit, 1MSPS, 1-Ch. 3.3V DSP Compatible ADC with FIFO	48-TQFP	16.08	14.48	12.84
THS14F03IPFB	296-2845-ND	14-Bit, 3MSPS, 1-Ch. 3.3V DSP Compatible ADC with FIFO	48-TQFP	18.90	17.64	16.38
THS0842IPFB	296-2171-ND	8-Bit, 40MSPS, 2-Ch. 3.3V Parallel ADC	48-TQFP	8.41	7.58	6.72
THS1007IDA	296-2823-5-ND	10-Bit, 6MSPS, 4-Channel 5V Parallel ADC	32-TSSOP	8.70	6.96	5.88
THS1009IDA	296-2825-5-ND	10-Bit, 8MSPS, 2-Ch. Parallel ADC	32-TSSOP	7.50	6.00	5.07
THS1030CDW	296-2173-5-ND	10-Bit, 30MSPS, 3-5.5V ADC	28-SOIC	7.50	6.00	5.07
THS1030IDW	296-2826-5-ND	10-Bit, 30MSPS, 3-5.5V ADC	28-SOIC	8.00	6.40	5.40
THS1030IPW	296-2827-5-ND	10-Bit, 30MSPS, 3-5.5V ADC	28-TSSOP	8.00	6.40	5.40
THS1031CDW	296-2174-5-ND	10-Bit, 30MSPS, 3-5.5V ADC	28-SOIC	8.20	6.56	5.54
THS1031IDW	296-2828-5-ND	10-Bit, 30MSPS, 3-5.5V ADC	28-SOIC	8.90	7.12	6.01
THS1031IPW	296-2829-5-ND	10-Bit, 30MSPS, 3-5.5V ADC	28-TSSOP	8.90	7.12	6.01
THS1040IDW	296-13329-5-ND	3V, 10-Bit, 40MSPS CMOS ADC	28-SOIC	9.16	8.25	7.32
THS1040IPW	296-13330-5-ND	3V, 10-Bit, 40MSPS CMOS ADC	28-TSSOP	9.16	8.25	7.32
THS1041IDW	296-13331-5-ND	10-Bit, 40MSPS ADC with PGA and Clamp	28-SOIC	9.75	8.78	7.79
THS1041IPW	296-13332-5-ND	10-Bit, 40MSPS ADC with PGA and Clamp	28-TSSOP	9.75	8.78	7.79
THS1060CPHP	296-2175-ND	10-Bit, 60MSPS, 1-Channel, 5V IF Sampling ADC	48-TQFP	9.58	7.67	6.47
THS1206CDA	296-2176-5-ND	12-Bit, 6MSPS, 4-Channel, 3-5V IF Sampling ADC	32-TSSOP	12.99	11.70	10.38
THS1206IDA	296-2833-5-ND	12-Bit, 6MSPS, 4-Channel, 3-5V IF Sampling ADC	32-TSSOP	15.33	13.80	12.24
THS1206M-EVM	296-16737-ND	Evaluation Module for THS1206M	—	62.78	—	—
THS1206MDAREP	296-18129-1-ND	12-Bit, 6MSPS, 4-Channel, 3-5V IF Sampling ADC	32-TSSOP	26.42	24.66	22.90
THS1206MDAREP	296-18129-2-ND	12-Bit, 6MSPS, 4-Channel, 3-5V IF Sampling ADC	32-TSSOP	43496.00/2,000		
THS1207IDA	296-2834-5-ND	12-Bit, 6MSPS, 4-Channel 5V IF Sampling ADC	32-TSSOP	14.33	12.90	11.44
THS1209IDA	296-2836-5-ND	12-Bit, 8MSPS, 2-Channel 8V IF Sampling ADC	32-TSSOP	15.49	13.95	12.37
THS1215IDW	296-10010-5-ND	12-Bit, 15MSPS, LP ADC w/ENOB	28-SOIC	15.75	14.70	13.65
THS1215IPW	296-10011-5-ND	12-Bit, 15MSPS, LP ADC w/ENOB	28-TSSOP	14.58	13.13	11.64
THS1230IDW	296-2837-5-ND	12-Bit, 30MSPS, 3.3V 1-Ch. ADC	28-SOIC	20.33	18.97	17.62
THS1230IPW	296-2838-5-ND	12-Bit, 30MSPS, 3.3V 1-Ch. ADC	28-TSSOP	16.95	15.82	14.69
THS1240IPHP	296-2839-ND	12-Bit, 40MSPS, 5V IF Sampling ADC	48-HTQFP	22.14	20.67	19.19
THS1401IPFB	296-2840-ND	14-Bit, 1MSPS, 1-Channel 3.3V ADC with Reference	48-TQFP	14.83	13.35	11.84
THS1401QPHPEP	296-18130-1-ND	14-Bit, 1MSPS, 1-Channel 3.3V ADC with Reference	48-HTQFP	30.72	28.68	26.63
THS1401QPHPEP	296-18130-2-ND	14-Bit, 1MSPS, 1-Channel 3.3V ADC with Reference	48-HTQFP	6528.00/250		
THS1403IPFB	296-2841-ND	14-Bit, 3MSPS, 1-Channel 3.3V ADC with Reference	48-TQFP	16.58	15.47	14.37
THS1403QPHPEP	296-18131-1-ND	14-Bit, 3MSPS, 1-Channel 3.3V ADC with Reference	48-HTQFP	38.09	35.55	33.01
THS1403QPHPEP	296-18131-2-ND	14-Bit, 3MSPS, 1-Channel 3.3V ADC with Reference	48-HTQFP	8093.00/250		
THS1408IPFB	296-2842-ND	14-Bit, 8MSPS, 4-Channel 3.3V ADC with Reference	48-TQFP	22.28	20.79	19.31
THS1408MPHPEP	296-18132-1-ND	14-Bit, 8MSPS, 4-Channel 3.3V ADC with Reference	48-HTQFP	27.14	25.33	23.52
THS1408MPHPEP	296-18132-2-ND	14-Bit, 8MSPS, 4-Channel 3.3V ADC with Reference	48-HTQFP	5766.25/250		
THS10064CDA	296-2172-5-ND	10-Bit, 6MSPS, 4-Channel, 3-5V Sampling ADC	32-TSSOP	8.30	6.64	5.61
THS10064IDA	296-2822-5-ND	10-Bit, 6MSPS, 4-Channel, 3-5V Sampling ADC	32-TSSOP	9.80	7.84	6.62
THS10082IDA	296-2824-5-ND	10-Bit, 8MSPS 2-Ch. Parallel ADC	32-TSSOP	8.70	6.96	5.88
THS12082IDA	296-2835-5-ND	12-Bit, 8MSPS 2-Ch. Parallel ADC	32-TSSOP	16.49	14.85	13.17
TLC0820ACDB	296-2846-5-ND	8-Bit, ADC Modified Flash Converter	20-SSOP	4.07	3.26	2.54
TLC0820ACDBR	296-2846-1-ND	8-Bit, ADC Modified Flash Converter	20-SSOP	4.07	3.26	2.54
TLC0820ACDBR	296-2846-2-ND	8-Bit, ADC Modified Flash Converter	20-SSOP	4616.00/2,000		
TLC0820ACDW	296-2847-5-ND	8-Bit, ADC Modified Flash Converter	20-SOIC	4.07	3.26	2.54
TLC0820ACFN	296-2848-5-ND	8-Bit, ADC Modified Flash Converter	20-PLCC	4.07	3.26	2.54
TLC0820ACN	296-2849-5-ND	8-Bit, ADC Modified Flash Converter	20-Dip	4.28	3.42	2.66
TLC0820AIDW	296-2850-5-ND	8-Bit, ADC Modified Flash Converter	20-SOIC	4.39	3.51	2.73
TLC0820AIFN	296-2851-5-ND	8-Bit, ADC Modified Flash Converter	20-PLCC	4.39	3.51	2.73
TLC0820AIN	296-2852-5-ND	8-Bit, ADC Modified Flash Converter	20-Dip	4.59	3.68	2.86
TLC0831CD	296-2853-5-ND	8-Bit, 31KSPS, 1-Ch. 5V Serial ADC	8-SOIC	2.99	2.40	1.87
TLC0831CP	296-2854-5-ND	8-Bit, 31KSPS, 1-Ch. 5V Serial ADC	8-Dip	3.22	2.58	2.01
TLC0831ID	296-2855-5-ND	8-Bit, 31KSPS, 1-Ch. 5V Serial ADC	8-SOIC	3.22	2.58	2.01
TLC0831IP	296-2856-5-ND	8-Bit, 31KSPS, 1-Ch. 5V Serial ADC	8-Dip	3.42	2.74	2.13
TLC0832CD	296-2857-5-ND	8-Bit, 22KSPS, 2-Ch. 5V Serial ADC	8-SOIC	2.99	2.40	1.87
TLC0832CP	296-2858-5-ND	8-Bit, 22KSPS, 2-Ch. 5V Serial ADC	8-Dip	2.99	2.40	1.87
TLC0832ID	296-2859-5-ND	8-Bit, 22KSPS, 2-Ch. 5V Serial ADC	8-SOIC	3.22	2.58	2.01
TLC0832IP	296-2860-5-ND	8-Bit, 22KSPS, 2-Ch. 5V Serial ADC	8-Dip	3.22	2.58	2.01
TLC0834CD	296-2861-5-ND	8-Bit, 20KSPS, 4-Ch. 5V Serial ADC	14-SOIC	3.11	2.49	1.94
TLC0834CN	296-2862-5-ND	8-Bit, 20KSPS, 4-Ch. 5V Serial ADC	14-Dip	3.31	2.65	2.06
TLC0834ID	296-2863-5-ND	8-Bit, 20KSPS, 4-Ch. 5V Serial ADC	14-SOIC	3.31	2.65	2.06
TLC0834IN	296-2864-5-ND	8-Bit, 20KSPS, 4-Ch. 5V Serial ADC	14-Dip	3.53	2.83	2.20
TLC0838CDW	296-2865-5-ND	8-Bit, 20KSPS, 8-Ch. 5V Serial ADC	20-SOIC	3.11	2.49	1.94
TLC0838CN	296-2866-5-ND	8-Bit, 20KSPS, 8-Ch. 5V Serial ADC	20-Dip	3.31	2.65	2.06
TLC0838IDW	296-2867-5-ND	8-Bit, 20KSPS, 8-Ch. 5V Serial ADC	20-SOIC	3.31	2.65	2.06
TLC0838IN	296-2868-5-ND	8-Bit, 20KSPS, 8-Ch. 5V Serial ADC	20-Dip	3.53	2.83	2.20
TLC0838IPW	296-2869-5-ND	8-Bit, 20KSPS, 8-Ch. 5V Serial ADC	20-TSSOP	3.31	2.65	2.06
TLC540IDW	296-2919-5-ND	8-Bit, 75KSPS, 12-Ch. 5V Serial ADC	20-SOIC	3.96	3.17	2.47
TLC540IFN	296-2920-5-ND	8-Bit, 75KSPS, 12-Ch. 5V Serial ADC	20-PLCC	3.96	3.17	2.47
TLC540IN	296-2921-5-ND	8-Bit, 75KSPS, 12-Ch. 5V Serial ADC	20-Dip	3.96	3.17	2.47
TLC541IDW	296-2922-5-ND	8-Bit, 40KSPS, 11-Ch. 5V Serial ADC	20-SOIC	3.38	2.70	2.10
TLC541IFN	296-2923-5-ND	8-Bit, 40KSPS, 11-Ch. 5V Serial ADC	20-PLCC	3.38	2.70	2.10
TLC541IFNR	296-1331-1-ND	8-Bit, 40KSPS, 11-Ch. 5V Serial ADC	20-PLCC	3.38	2.70	2.10
TLC541IFNR	296-1331-2-ND	8-Bit, 40KSPS, 11-Ch. 5V Serial ADC	20-PLCC	1913.00/1,000		
TLC541IN	296-1850-5-ND	8-Bit, 40KSPS, 11-Ch. 5V Serial ADC	20-Dip	3.38	2.70	2.10
TLC542CDW	296-1332-5-ND	8-Bit, 25KSPS, 11-Ch. 5V Serial ADC	20-SOIC	3.22	2.58	2.01
TLC542CDWR	296-1332-1-ND	8-Bit, 25KSPS, 11-Ch. 5V Serial ADC	20-SOIC	3.22	2.58	2.01
TLC542CDWR	296-1332-2-ND	8-Bit, 25KSPS, 11-Ch. 5V Serial ADC	20-SOIC	3646.00/2,000		
TLC542CN	296-2924-5-ND	8-Bit, 25KSPS, 11-Ch. 5V Serial ADC	20-Dip	3.22	2.58	2.01
TLC542IDW	296-1333-5-ND	8-Bit, 25KSPS, 11-Ch. 5V Serial ADC	20-SOIC	3.42	2.74	2.13

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC542IDWR	296-1333-1-ND	8-Bit, 25KSPS, 11-Ch. 5V Serial ADC	20-SOIC	3.42	2.74	2.13
TLC542IDWR	296-1333-2-ND	8-Bit, 25KSPS, 11-Ch. 5V Serial ADC	20-SOIC	3876.00/2,000		
TLC542IFN	296-1334-5-ND	8-Bit, 25KSPS, 11-Ch. 5V Serial ADC	20-PLCC	3.42	2.74	2.13
TLC542IFNR	296-1334-1-ND	8-Bit, 25KSPS, 11-Ch. 5V Serial ADC	20-PLCC	3.42	2.74	2.13
TLC542IFNR	296-1334-2-ND	8-Bit, 25KSPS, 11-Ch. 5V Serial ADC	20-PLCC	1938.00/1,000		
TLC542IN	296-2927-5-ND	8-Bit, 25KSPS, 11-Ch. 5V Serial ADC	20-Dip	3.65	2.92	2.27
TLC545CFN	296-2928-5-ND	8-Bit, 76KSPS, 19-Ch. 5V Serial ADC	28-PLCC	6.20	4.96	4.19
TLC545CN	296-2929-5-ND	8-Bit, 76KSPS, 19-Ch. 5V Serial ADC	28-Dip	6.50	5.20	4.39
TLC545IFN	296-2930-5-ND	8-Bit, 76KSPS, 19-Ch. 5V Serial ADC	28-PLCC	6.60	5.28	4.46
TLC545IN	296-2931-5-ND	8-Bit, 76KSPS, 19-Ch. 5V Serial ADC	28-Dip	7.00	5.60	4.73
TLC548CD	296-2934-5-ND	8-Bit, 45.5KSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	2.70	2.16	1.68
TLC548CP	296-2935-5-ND	8-Bit, 45.5KSPS, 1-Ch. 3-6V Serial ADC	8-Dip	2.93	2.34	1.82
TLC548ID	296-2936-5-ND	8-Bit, 45.5KSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	2.93	2.34	1.82
TLC548IP	296-2937-5-ND	8-Bit, 45.5KSPS, 1-Ch. 3-6V Serial ADC	8-Dip	3.04	2.43	1.89
TLC549CD	296-1335-5-ND	8-Bit, 40KSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	2.25	1.80	1.35
TLC549CDR	296-1335-1-ND	8-Bit, 40KSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	2.25	1.80	1.35
TLC549CDR	296-1335-2-ND	8-Bit, 40KSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	2880.00/2,500		
TLC549CP	296-1853-5-ND	8-Bit, 40KSPS, 1-Ch. 3-6V Serial ADC	8-Dip	2.38	1.90	1.43
TLC549ID	296-1854-5-ND	8-Bit, 40KSPS, 1-Ch. 3-6V Serial ADC	8-SOIC	2.25	1.80	1.40
TLC549IP	296-1855-5-ND	8-Bit, 40KSPS, 1-Ch. 3-6V Serial ADC	8-Dip	2.36	1.89	1.47
TLC1514ID	296-2180-5-ND	10-Bit, 400KSPS, 4-Ch. 5V Serial ADC	16-SOIC	5.80	4.64	3.92
TLC1514IPW	296-2870-5-ND	10-Bit, 400KSPS, 4-Ch. 5V Serial ADC	16-TSSOP	5.80	4.64	3.92
TLC1518IDW	296-2181-5-ND	10-Bit, 400KSPS, 8-Ch. 5V Serial ADC	20-SOIC	6.90	5.52	4.66
TLC1518IPW	296-2871-5-ND	10-Bit, 400KSPS, 8-Ch. 5V Serial ADC	20-TSSOP	6.90	5.52	4.66
TLC1541CDW	296-2872-5-ND	10-Bit, 32KSPS, 11-Ch. 5V Serial ADC	20-SOIC	6.40	5.12	4.32
TLC1541CFN	296-2873-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-PLCC	6.40	5.12	4.32
TLC1541CN	296-2874-5-ND	10-Bit, 32KSPS, 11-Ch. 5V Serial ADC	20-Dip	6.80	5.44	4.59
TLC1541IDW	296-2875-5-ND	10-Bit, 32KSPS, 11-Ch. 5V Serial ADC	20-SOIC	6.90	5.52	4.66
TLC1541IN	296-2182-5-ND	10-Bit, 32KSPS, 11-Ch. 5V Serial ADC	20-Dip	7.30	5.84	4.93
TLC1541IFN	296-2876-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-PLCC	6.90	5.52	4.66
TLC1542CDW	296-2877-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-SOIC	5.00	4.00	3.38
TLC1542CFN	296-2878-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-PLCC	5.00	4.00	3.38
TLC1542CN	296-2879-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-Dip	5.00	4.00	3.38
TLC1542IDW	296-2880-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-SOIC	5.40	4.32	3.65
TLC1542IN	296-2881-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-Dip	5.40	4.32	3.65
TLC1542QFN	296-2882-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-PLCC	6.20	4.96	4.19
TLC1543CDB	296-2883-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-SSOP	4.07	3.26	2.54
TLC1543CDW	296-1804-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-SOIC	4.07	3.26	2.54
TLC1543CDWR	296-1804-1-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-SOIC	4.07	3.26	2.54
TLC1543CDWR	296-1804-2-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-SOIC	4616.00/2,000		
TLC1543CFN	296-1805-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-PLCC	4.07	3.26	2.54
TLC1543CN	296-2885-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-Dip	4.28	3.42	2.66
TLC1543IDW	296-2886-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-SOIC	4.28	3.42	2.66
TLC1543IFN	296-2887-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-PLCC	4.28	3.42	2.66
TLC1543IN	296-2888-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-Dip	4.50	3.60	2.80
TLC1543QDB	296-2889-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-SSOP	4.93	3.95	3.07
TLC1543QDW	296-2890-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-SOIC	4.93	3.95	3.07
TLC1543QDWREP	296-18138-1-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-SOIC	7.78	6.23	5.26
TLC1543QDWREP	296-18138-2-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-SOIC	9726.00/2,000		
TLC1543QFN	296-2891-5-ND	10-Bit, 38KSPS, 11-Ch. 5V Serial ADC	20-PLCC	4.93	3.95	3.07
TLC1549CD	296-2892-5-ND	10-Bit, 38KSPS, 1-Ch. 5V Serial ADC	8-SOIC	4.05	3.24	2.52
TLC1549CP	296-1806-5-ND	10-Bit, 38KSPS, 1-Ch. 5V Serial ADC	8-Dip	4.28	3.42	2.66
TLC1549ID	296-2893-5-ND	10-Bit, 38KSPS, 1-Ch. 5V Serial ADC	8-SOIC	4.39	3.51	2.73
TLC1549IP	296-2894-5-ND	10-Bit, 38KSPS, 1-Ch. 5V Serial ADC	8-Dip	4.61	3.69	2.87
TLC1550IDW	296-2895-5-ND	10-Bit, 164KSPS, 10-Ch. 5V Parallel Out ADC	24-SOIC	7.80	6.24	5.27
TLC1551IDW	296-2896-5-ND	10-Bit, 164KSPS, 10-Ch. 5V Parallel Out ADC	24-SOIC	6.70	5.36	4.53
TLC2543CDB	296-2897-5-ND	12-Bit, 66KSPS, 11-Ch. 5V Serial ADC	20-SSOP	8.46	6.77	5.72
TLC2543CDW	296-1307-5-ND	12-Bit, 66KSPS, 11-Ch. 5V Serial ADC	20-SOIC	8.46	6.77	5.72
TLC2543CDWR	296-1307-1-ND	12-Bit, 66KSPS, 11-Ch. 5V Serial ADC	20-SOIC	8.46	6.77	5.72
TLC2543CDWR	296-1307-2-ND	12-Bit, 66KSPS, 11-Ch. 5V Serial ADC	20-SOIC	10576.00/2,000		
TLC2543CFN	296-2898-5-ND	12-Bit, 66KSPS, 11-Ch. 5V Serial ADC	20-PLCC	8.46	6.77	5.72
TLC2543CN	296-1816-5-ND	12-Bit, 66KSPS, 11-Ch. 5V Serial ADC	20-Dip	8.46	6.77	5.72
TLC2543IDB	296-2899-5-ND	12-Bit, 66KSPS, 11-Ch. 5V Serial ADC	20-SSOP	9.02	7.22	6.09
TLC2543IDW	296-2900-5-ND	12-Bit, 66KSPS, 11-Ch. 5V Serial ADC	20-SOIC	9.02	7.22	6.09
TLC2543IFN	296-2901-5-ND	12-Bit, 66KSPS, 11-Ch. 5V Serial ADC	20-PLCC	9.02	7.22	6.09
TLC2543IN	296-1817-5-ND	12-Bit, 66KSPS, 11-Ch. 5V Serial ADC	20-Dip	9.02	7.22	6.09
TLC2551ID	296-2909-5-ND	12-Bit, 400KSPS, 1-Ch. 5V Serial ADC	8-SOIC	8.40	6.72	5.67
TLC2551IDGK	296-2910-5-ND	12-Bit, 400KSPS, 1-Ch. 5V Serial ADC	8-MSOP	8.40	6.72	5.67
TLC2552ID	296-2911-5-ND	12-Bit, 400KSPS, 2-Ch. 5V Serial ADC	8-SOIC	8.40	6.72	5.67
TLC2552IDGK	296-2912-5-ND	12-Bit, 400KSPS, 1-Ch. 5V Serial ADC	8-MSOP	8.40	6.72	5.67
TLC2554ID	296-2913-5-ND	12-Bit, 400KSPS, 4-Ch. 5V Serial ADC	16-SOIC	10.08	9.08	8.05
TLC2554IPW	296-2914-5-ND	12-Bit, 400KSPS, 4-Ch. 5V Serial ADC	16-TSSOP	9.50	8.55	7.59
TLC2555ID	296-2915-5-ND	12-Bit, 400KSPS, 1-Ch. 5V Serial ADC	8-SOIC	8.40	6.72	5.67
TLC2555IDGK	296-2916-5-ND	12-Bit, 400KSPS, 1-Ch. 5V Serial ADC	8-MSOP	8.40	6.72	5.67
TLC2558IDW	296-2917-5-ND	12-Bit, 400KSPS, 8-Ch. 5V Serial ADC	20-SOIC	9.50	8.55	7.59
TLC2558IPW	296-2918-5-ND	12-Bit, 400KSPS, 8-Ch. 5V Serial ADC	20-TSSOP	9.50	8.55	7.59
TLC2574EVM	296-18897-ND	Evaluation Module for TLC2574	—	62.78	—	—
TLC2574IDW	296-10255-5-ND	12-Bit, 200KSPS, 4-Ch. Serial Out ADC	20-SOIC	8.83	7.95	7.05
TLC2574IPW	296-10256-5-ND	12-Bit, 200KSPS, 4-Ch. Serial Out ADC	20-TSSOP	8.83	7.95	7.05
TLC2578EVM	296-18898-ND	Evaluation Module for TLC2578	—	62.78	—	—
TLC2578IDW	296-10257-5-ND	12-Bit, 200KSPS, 8-Ch. Serial Out ADC	24-SOIC	9.66	8.70	7.72
TLC2578IPW	296-10258-5-ND	12-Bit, 200KSPS, 8-Ch. Serial Out ADC	24-TSSOP	9.66	8.70	7.72
TLC3541ID	296-12498-5-ND	5V, Low Power, 14-Bit, 200KSPS Serial ADC with Auto Power Down	8-SOIC	8.33	7.50	6.65
TLC3541IDGK	296-13505-5-ND	5V, Low Power, 14-Bit, 200KSPS Serial ADC with Auto Power Down	8-MSOP	8.33	7.50	6.65
TLC3544EVM	296-18899-ND	Evaluation Module for TLC3544	—	62.78	—	—
TLC3544IDW	296-10288-5-ND	14-Bit, 200KSPS, 4-Ch. Unipolar ADC	20-SOIC	10.32	9.68	8.58
TLC3544IPW	296-10289-5-ND	14-Bit, 200KSPS, 4-Ch. Unipolar ADC	20-TSSOP	10.32	9.68	8.58
TLC3545ID	296-12499-5-ND	14-Bit, 5V, 200KSPS, LP Serial ADC	8-SOIC	8.33	7.50	6.65
TLC3545IDGK	296-13506-5-ND	5V, Low Power, 14-Bit, 200KSPS Serial ADC with Auto Power Down	8-MSOP	8.33	7.50	6.65
TLC3548EVM	296-18900-ND	Evaluation Module for TLC3548	—	62.78	—	—
TLC3548IDW	296-10290-5-ND	14-Bit, 200KSPS, 8-Ch. Unipolar ADC	24-SOIC	11.41	10.28	9.12
TLC3548IPW	296-10291-5-ND	14-Bit, 200KSPS, 8-Ch. Unipolar ADC	20-TSSOP	11.41	10.28	9.12
TLC3574EVM	296-18901-ND	Evaluation Module for TLC3574	—	62.78	—	—
TLC3574IDW	296-10296-5-ND	14-Bit, 200KSPS, 4-Ch. LP ADC	20-SOP	11.41	10.28	9.12
TLC3574IPW	296-10297-5-ND	14-Bit, 200KSPS, 4-Ch. LP ADC	20-TSSOP	11.41	10.28	9.12
TLC3578EVM	296-18902-ND	Evaluation Module for TLC3578	—	62.78	—	—
TLC3578IDW	296-10298-5-ND	14-Bit, 200KSPS, 8-Ch. LP ADC	24-SOIC	14.41	12.98	11.51
TLC3578IPW	296-10299-5-ND	14-Bit, 200KSPS, 8-Ch. LP ADC	24-TSSOP	14.41	12.98	11.51
TLC4541ID	296-12500-5-ND	16-Bit, 5V, 200KSPS, LP Serial ADC	8-SOIC	11.41	10.28	9.12
TLC4541IDGK	296-13825-5-ND	16-Bit, 5V, 200KSPS, LP Serial ADC	8-MSOP	11.41	10.28	9.12
TLC4545ID	296-12501-5-ND	16-Bit, 5V, 200KSPS, LP Serial ADC	8-SOIC	11.41	10.28	9.12
TLC4545IDGK	296-12746-5-ND	16-Bit, 5V, 200KSPS, LP Serial ADC	8-MSOP	11.41	10.28	9.12
TLC5510AINS	296-2938-5-ND	8-Bit, 20MSPS 1-Channel 5.0V High Speed Serial ADC	24-SOP	5.02	4.02	3.13
TLC5510INS	296-2939-5-ND	8-Bit, 20MSPS 1-Channel 5.0V High Speed Serial ADC	24-SOP	5.02	4.02	3.13
TLC5510INSR	296-2939-1-ND	8-Bit, 20MSPS 1-Channel 5.0V High Speed Serial ADC	24-SOP	5.02	4.02	3.13
TLC5510INSR	296-2939-2-ND	8-Bit, 20MSPS 1-Channel 5.0V High Speed Serial ADC	24-SOP	5686.00/2,000		
TLC5510IPW	296-2183-5-ND	8-Bit, 20MSPS 1-Channel 5.0V High Speed Serial ADC	24-TSSOP	5.02	4.02	3.13
TLC5540CNSR	296-10336-1-ND	8-Bit, 40MSPS, 1-Channel 5.0V High Speed PAR ADC	24-SOP	5.13	4.11	3.20
TLC5540CNSR	296-10336-2-ND	8-Bit, 40MSPS, 1-Channel 5.0V High Speed PAR ADC	24-SOP	5814.00/2,000		
TLC5540INSR	296-10338-1-ND	8-Bit, 40MSPS, 1-Channel 5.0V High Speed PAR ADC	24-SOP	5.56	4.45	3.46
TLC5540INSR	296-10338-2-ND	8-Bit, 40MSPS, 1-Channel 5.0V High Speed PAR ADC	24-SOP	6298.00/2,000		
TLC5540IPW	296-2184-5-ND	8-Bit, 40MSPS 1-Channel 5.0V High Speed PAR ADC	24-TSSOP	5.56	4.45	3.46
TLC7135CDW	296-2185-5-ND	4.5-Digit, .003KSPS, 1-Ch. Differential Input ADC	28-SOIC	4.16	3.33	2.59
TLC7135CN	296-10350-5-ND	4.5-Digit, .003KSPS, 1-Ch. Differential Input ADC	28-Dip	4.16	3.33	2.59
TLV0831CD	296-2944-5-ND	8-Bit, 49KSPS, 1-Ch. 3.3V Serial ADC	8-SOIC	3.15	2.52	1.96
TLV0831CP	296-2187-5-ND	8-Bit, 49KSPS, 1-Ch. 3.3V Serial ADC	8-Dip	3.15	2.52	1.96
TLV0831ID	296-2945-5-ND	8-Bit, 49KSPS, 1-Ch. 3.3V Serial ADC	8-SOIC	3.38	2.70	2.10
TLV0831IP	296-2946-5-ND	8-Bit, 49KSPS, 1-Ch. 3.3V Serial ADC	8-Dip	3.38	2.70	2.10
TLV0832CD	296-2947-5-ND	8-Bit, 44.7KSPS, 2-Ch. 3.3V Serial ADC	8-SOIC	3.15	2.52	1.96
TLV0832CP	296-2948-5-ND	8-Bit, 44.7KSPS, 2-Ch. 3.3V Serial ADC	8-Dip	3.15	2.52	1.96
TLV0832ID	296-2188-5-ND	8-Bit, 44.7KSPS, 2-Ch. 3.3V Serial ADC	8-SOIC	3.38	2.70	2.10
TLV0832IP	296-2949-5-ND	8-Bit, 44.7KSPS, 2-Ch. 3.3V Serial ADC	8-Dip	3.38	2.70	2.10
TLV0834CD	296-2189-5-ND	8-Bit, 41KSPS, 4-Ch. 3.3V Serial ADC	14-SOIC	3.26	2.61	2.03
TLV0834ID	296-2950-5-ND	8-Bit, 41KSPS, 4-Ch. 3.3V Serial ADC	14-SOIC	3.49	2.79	2.17
TLV0834IN	296-2951-5-ND	8-Bit, 41KSPS, 4-Ch. 3.3V Serial ADC	14-Dip	3.49	2.79	2.17
TLV0834IPW	296-13859-5-ND	8-Bit, 41KSPS, 4-Ch. 3.3V Serial ADC	16-TSSOP	3.49	2.79	2.17
TLV0838CDW	296-2952-5-ND	8-Bit, 37.9KSPS, 8-Ch. 3.3V Serial ADC	20-SOIC	3.26	2.61	2.03
TLV0838IDW	296-2190-5-ND	8-Bit, 37.9KSPS, 8-Ch. 3.3V Serial ADC	20-SOIC	3.49	2.79	2.17
TLV0838IN	296-2953-5-ND	8-Bit, 37.9KSPS, 8-Ch. 3.3V Serial ADC	20-Dip	3.49	2.79	2.17
TLV0838IPW	296-2954-5-ND	8-Bit, 37.9KSPS, 8-Ch. 3.3V Serial ADC	20-TSSOP	3.49	2.79	2.17
TLV571IDW	296-2207-5-ND	8-Bit, 1.25MSPS 1-Ch. 2.7-5.5V Parallel ADC	24-SOIC	5.29	4.23	3.29
TLV571IPW	296-2988-5-ND	8-Bit, 1.25MSPS 1-Ch. 2.7-5.5V Parallel ADC	24-TSSOP	5.29	4.23	3.29
TLV1504ID	296-2191-5-ND	10-Bit, 200KSPS, 4-Ch. 2.7-5.5V Serial ADC	16-SOIC	5.30	4.24	3.58
TLV1504IPW	296-2955-5-ND	10-Bit, 200KSPS, 4-Ch. 2.7-5.5V Serial ADC	16-TSSOP	5.30	4.24	3.58
TLV1508IDW	296-2192-5-ND	10-Bit, 200KSPS, 4-Ch. 2.7-5.5V Serial ADC	20-SOIC	6.30	5.04	4.26
TLV1508IPW	296-2956-5-ND	10-Bit, 200KSPS, 4-Ch. 2.7-5.5V Serial ADC	20-TSSOP	6.30	5.04	4.26
TLV1543CDB	296-2958-5-ND	10-Bit, 200KSPS, 11-Ch. 3.3V Serial ADC	20-SSOP	4.59	3.68	2.86
TLV1543CDW	296-1878-5-ND	10-Bit, 200KSPS, 11-Ch. 3.3V Serial ADC	20-SOIC	4.59	3.68	2.86
TLV1543CN	296-2957-5-ND	10-Bit, 200KSPS, 11-Ch. 3.3V Serial ADC	20-Dip	4.82	3.86	3.00
TLV1543IDB	296-2959-5-ND	10-Bit, 200KSPS, 11-Ch. 3.3V Serial ADC	20-SSOP	4.93	3.95	3.07
TLV1544CD	296-2960-5-ND	10-Bit, 85KSPS, 4-Ch. 2.7-5.5V Serial ADC	16-SOIC	4.39	3.51	2.73
TLV1544CPW	296-2193-5-ND	10-Bit, 85KSPS, 4-Ch. 2.7-5.5V Serial ADC	16-TSSOP	4.39	3.51	2.73
TLV1544ID	296-2961-5-ND	10-Bit, 85KSPS, 4-Ch. 2.7-5.5V Serial ADC	16-SOIC	4.73	3.78	2.94
TLV1548IDB	296-2962-5-ND	10-Bit, 85KSPS, 8-Ch. 2.7-5.5V Serial ADC	20-SSOP	5.51	4.41	3.43
TLV1548QDBREP	296-18146-1-ND	10-Bit, 85KSPS, 8-Ch. 2.7-5.5V Serial ADC	20-SSOP	8.72	6.98	5.89
TLV1548QDBREP	296-18146-2-ND	10-Bit, 85KSPS, 8-Ch. 2.7-5.5V Serial ADC	20-SSOP	10900.00/2,000		
TLV1548QDBRQ1	296-16956-1-ND	10-Bit, 85KSPS, 8-Ch. 2.7-5.5V Serial ADC	20-SSOP	5.80	4.64	3.92
TLV1548QDBRQ1	296-16956-2-ND	10-Bit, 85KSPS, 8-Ch. 2.7-5.5V Serial ADC	20-SSOP	7250.00/2,000		
TLV1549CD	296-2963-5-ND	10-Bit, 38KSPS, 1-Ch. 3.3V Serial ADC	8-SOIC	4.16	3.33	2.59
TLV1549CP	296-2964-5-ND	10-Bit, 38KSPS, 1-Ch. 3.3V-Serial ADC	8-Dip	4.39	3.51	2.73
TLV1549ID	296-2194-5-ND	10-Bit, 38KSPS, 1-Ch. 3.3V Serial ADC	8-SOIC	4.39	3.51	2.73

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV1549IP	296-2965-5-ND	10-Bit, 38KSPS, 1-Ch. 3.3V Serial ADC	8-Dip	4.61	3.69	2.87
TLV1562CDW	296-2195-5-ND	10-Bit, 2MSPS 4-Ch. 2.7-5.5V Parallel ADC	28-SOIC	8.30	6.64	5.61
TLV1562CPW	296-2966-5-ND	10-Bit, 2MSPS 4-Ch. 2.7-5.5V Parallel ADC	28-TSSOP	8.30	6.64	5.61
TLV1562IDW	296-1879-5-ND	10-Bit, 2MSPS 4-Ch. 2.7-5.5V Parallel ADC	28-SOIC	8.90	7.12	6.01
TLV1562IPW	296-1880-5-ND	10-Bit, 2MSPS 4-Ch. 2.7-5.5V Parallel ADC	28-TSSOP	8.90	7.12	6.01
TLV1570CDW	296-2196-5-ND	10-Bit, 1.25MSPS 8-Ch. 2.7-5.5V Serial ADC	20-SOIC	7.60	6.08	5.13
TLV1570CPW	296-2967-5-ND	10-Bit, 1.25MSPS 8-Ch. 2.7-5.5V Serial ADC	20-TSSOP	7.60	6.08	5.13
TLV1570IDW	296-1881-5-ND	10-Bit, 1.25MSPS 8-Ch. 2.7-5.5V Serial ADC	20-SOIC	8.10	6.48	5.47
TLV1570IPW	296-1882-5-ND	10-Bit, 1.25MSPS 8-Ch. 2.7-5.5V Serial ADC	20-TSSOP	8.10	6.48	5.47
TLV1571CDW	296-2197-5-ND	10-Bit, 1.25MSPS 1-Ch. 2.7-5.5V Parallel ADC	24-SOIC	7.40	5.92	5.00
TLV1571IDW	296-2968-5-ND	10-Bit, 1.25MSPS 1-Ch. 2.7-5.5V Parallel ADC	24-SOIC	7.90	6.32	5.34
TLV1571IPW	296-2969-5-ND	10-Bit, 1.25MSPS 1-Ch. 2.7-5.5V Parallel ADC	24-TSSOP	7.90	6.32	5.34
TLV1572CD	296-2970-5-ND	10-Bit, 1.25MSPS 1-Ch. 2.7-5.5V Serial ADC	8-SOIC	6.60	5.28	4.46
TLV1572ID	296-1883-5-ND	10-Bit, 1.25MSPS 1-Ch. 2.7-5.5V Serial ADC	8-SOIC	7.10	5.68	4.80
TLV1578CDA	296-2198-5-ND	10-Bit, 1.25MSPS 8-Ch. 2.7-5.5V Parallel ADC	32-SOP	7.70	6.16	5.20
TLV1578IDA	296-2971-5-ND	10-Bit, 1.25MSPS 8-Ch. 2.7-5.5V Parallel ADC	32-TSSOP	8.20	6.56	5.54
TLV2541CDGK	296-2199-5-ND	12-Bit, 140/200KSPS, 2-Ch. 2.7-5.5V Serial ADC	8-MSOP	7.70	6.16	5.20
TLV2541ID	296-2972-5-ND	12-Bit, 140/200KSPS, 2-Ch. 2.7-5.5V Serial ADC	8-SOIC	8.20	6.56	5.54
TLV2541IDGK	296-2973-5-ND	12-Bit, 140/200KSPS, 1-Ch. 2.7-5.5V Serial ADC	8MSOP	8.20	6.56	5.54
TLV2542CDGK	296-2200-5-ND	12-Bit, 140/200KSPS, 2-Ch. 2.7-5.5V Serial ADC	8-MSOP	7.70	6.16	5.20
TLV2542ID	296-2974-5-ND	12-Bit, 140/200KSPS, 2-Ch. 2.7-5.5V Serial ADC	8-SOIC	8.20	6.56	5.54
TLV2542IDGK	296-2975-5-ND	12-Bit, 140/200KSPS, 2-Ch. 2.7-5.5V Serial ADC	8-MSOP	8.20	6.56	5.54
TLV2543CDBR	296-10643-1-ND	12-Bit, 66KSPS, 11-Ch. 3.3V Serial Out ADC	20-SSOP	8.46	6.77	5.72
TLV2543CDBR	296-10643-2-ND	12-Bit, 66KSPS, 11-Ch. 3.3V Serial Out ADC	20-SSOP	10576.00/2,000		
TLV2543CDW	296-2977-5-ND	12-Bit, 66KSPS, 11-Ch. 3.3V Serial ADC	20-SOIC	8.46	6.77	5.72
TLV2543CN	296-2978-5-ND	12-Bit, 66KSPS, 11-Ch. 3.3V Serial ADC	20-Dip	8.46	6.77	5.72
TLV2543IDB	296-2201-5-ND	12-Bit, 66KSPS, 11-Ch. 3.3V Serial ADC	20-SSOP	9.02	7.22	6.09
TLV2543IDW	296-2979-5-ND	12-Bit, 66KSPS, 11-Ch. 3.3V Serial ADC	20-SOIC	9.02	7.22	6.09
TLV2543IN	296-2980-5-ND	12-Bit, 66KSPS, 11-Ch. 3.3V Serial ADC	20-Dip	9.02	7.22	6.09
TLV2544CD	296-2202-5-ND	12-Bit, 200KSPS, 4-Ch. 2.7-5.5V Serial ADC	16-SOIC	8.40	6.72	5.67
TLV2544ID	296-2981-5-ND	12-Bit, 200KSPS, 4-Ch. 2.7-5.5V Serial ADC	16-SOIC	9.00	7.20	6.08
TLV2544IPW	296-2982-5-ND	12-Bit, 200KSPS, 4-Ch. 2.7-5.5V Serial ADC	16-TSSOP	9.00	7.20	6.08
TLV2544QD	296-13365-5-ND	2.7V to 5.5V, 12-Bit, 200KSPS, 4-Ch. LP, Serial ADC w/Autopower-Down	16-SOIC	8.66	7.80	6.92
TLV2545CDGK	296-2203-5-ND	12-Bit, 140/200KSPS, 2-Ch. 2.7-5.5V Serial ADC	8-MSOP	7.70	6.16	5.20
TLV2545ID	296-2984-5-ND	12-Bit, 140/200KSPS, 2-Ch. 2.7-5.5V Serial ADC	8-SOIC	8.20	6.56	5.54
TLV2545IDGK	296-2985-5-ND	12-Bit, 140/200KSPS, 2-Ch. 2.7-5.5V Serial ADC	8-MSOP	8.20	6.56	5.54
TLV2548CDW	296-2204-5-ND	2.7 to 5.5V, 12-Bit, 200KSPS, 8-Ch. LP, Serial ADC w/Autopower-Down	20-SOIC	9.70	7.76	6.55
TLV2548IDW	296-2986-5-ND	2.7 to 5.5V, 12-Bit, 200KSPS, 8-Ch. LP, Serial ADC w/Autopower-Down	20-SOIC	8.66	7.80	6.92
TLV2548IPW	296-2987-5-ND	2.7 to 5.5V, 12-Bit, 200KSPS, 8-Ch. LP, Serial ADC w/Autopower-Down	20-TSSOP	8.66	7.80	6.92
TLV2548QDW	296-13366-5-ND	2.7 to 5.5V, 12-Bit, 200KSPS, 8-Ch. LP, Serial ADC w/Autopower-Down	20-SOIC	10.00	9.00	7.98
TLV2553IDW	296-12227-5-ND	12-Bit, 11-Ch., LP Serial ADC	20-SOIC	6.80	5.44	4.59
TLV2553IPW	296-15633-5-ND	12-Bit, 11-Ch., LP Serial ADC	20-TSSOP	6.80	5.44	4.59
TLV2556IDW	296-12502-5-ND	12-Bit, 11-Ch., LP Serial ADC with Internal Reference	20-SOIC	7.10	5.68	4.80
TLV2556IPW	296-13000-5-ND	12-Bit, 11-Ch., LP Serial ADC with Internal Reference	20-TSSOP	7.10	5.68	4.80
TLV5535IPW	296-2206-5-ND	8-Bit, 35MSPS 1-Ch. 3.3V LP ADC	28-TSSOP	5.40	4.32	3.36
TLV5580CDW	296-1912-5-ND	8-Bit, 80MSPS 1-Ch. 3.3V LP ADC	28-SOIC	17.91	16.72	15.53
TLV5580CPW	296-1913-5-ND	8-Bit, 80MSPS 1-Ch. 3.3V LP ADC	28-TSSOP	17.91	16.72	15.53
TLV5580IDW	296-1914-5-ND	8-Bit, 80MSPS 1-Ch. 3.3V LP ADC	28-SOIC	19.26	17.98	16.70
TLV5580IPW	296-1915-5-ND	8-Bit, 80MSPS 1-Ch. 3.3V LP ADC	28-TSSOP	19.26	17.98	16.70
TLV5734PAG	296-12955-5-ND	8-Bit, 30MSPS 3-Ch. 3.3V, Very Low Power ADC	64-TQFP	9.50	7.60	6.42
TSC2003IPW	296-14330-5-ND	I2C Touch Screen Controller	16-TSSOP	5.06	4.05	3.15
TSC2046EVM	296-17516-ND	Evaluation Module for TSC2046	—	62.78	—	—
TSC2046EVM-PDK	296-17518-ND	Evaluation Module for TSC2046-PDK	—	190.89	—	—
TSC2046IGQCR	296-13811-1-ND	Low Voltage I/O Touch Screen Controller	48-VFBGA	4.28	3.42	2.66
TSC2046IGQCR	296-13811-2-ND	Low Voltage I/O Touch Screen Controller	48-VFBGA	5985.00/2,500		
TSC2046IPWR	296-15049-1-ND	Low Voltage I/O Touch Screen Controller	16-TSSOP	3.85	3.08	2.40
TSC2046IPWR	296-15049-2-ND	Low Voltage I/O Touch Screen Controller	16-TSSOP	5387.50/2,500		
TSC2046IRGVR	296-15050-1-ND	Low Volt. I/O Touch Screen Controller	16-QFN	4.07	3.26	2.54
TSC2046IRGVR	296-15050-2-ND	Low Volt. I/O Touch Screen Controller	16-QFN	5702.50/2,500		
TSC2100EVM	296-19021-ND	Evaluation Module for TSC2100	—	126.84	—	—
TSC2100IDA	296-15903-5-ND	Prog. Touch Screen Controller	32-TSSOP	7.90	6.32	5.34
TSC2100IRHB	296-17926-ND	Prog. Touch Screen Controller	32-QFN	7.90	6.32	5.34
TSC2101EVM	296-16858-ND	Touch Screen Controller Evaluation Module	—	126.84	118.39	109.93
TSC2101IRGZ	296-17512-ND	Audio Codec w/Integrated Headphone Speaker, Amp/Touch Screen Controller	48-QFN	9.90	7.92	6.69
TSC2102IDA	296-15679-5-ND	Programmable Touch Screen Controller with Audio DAC	32-TSSOP	7.40	5.92	5.00
TSC2200IPW	TSC2200IPW-ND	Programmable Touch Screen Controller with 12-Bit, 125KHz ADC and Keypad Interface	28-TSSOP	5.40	4.32	3.36
TSC2200IRHB	296-16693-5-ND	Prog. Touch Screen Controller with 12-Bit, 125KHz ADC and Keypad Interface	32-QFN	5.40	4.32	3.36
TSC2200IRHBR	296-16694-1-ND	Prog. Touch Screen Controller with 12-Bit, 125KHz ADC and Keypad Interface	32-QFN	5.40	4.32	3.36
TSC2200IRHBR	296-16694-2-ND	Prog. Touch Screen Controller with 12-Bit, 125KHz ADC and Keypad Interface	32-QFN	9072.00/3,000		
TSC2300IPAG	296-14060-ND	Programmable Touch Screen Controller with Audio Codec	64-TQFP	9.50	7.60	6.42
TSC2301EVM	296-19022-ND	Evaluation Module for TSC2301	—	190.89	—	—
TSC2301IGQZR	296-15713-1-ND	Programmable Touch Screen Controller with Audio Codec	120-BGA	9.90	7.92	6.69
TSC2301IGQZR	296-15713-2-ND	Programmable Touch Screen Controller with Audio Codec	120-BGA	15345.00/2,500		
TSC2301IPAG	296-15680-ND	Programmable Touch Screen Controller with Audio Codec	64-TQFP	9.90	7.92	6.69
TSC2302IRGZ	296-19023-ND	Programmable Touch Screen Controller	48-QFN	9.00	7.20	6.08
VSP1021PFB	296-12700-ND	10-Bit, Low Power Analog-Signal Processor/Digitizer	48-TQFP	6.30	5.04	4.26

Audio Analog-to-Digital Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DF1706E	DF1706E-ND	Digital Filter for PCM1704	28-SSOP	17.48	16.31	15.15
DF1760P	DF1760P-ND	Digital Filter for PCM1760	28-Dip	23.27	21.72	20.17
DF1760U	DF1760U-ND	Digital Filter for PCM1760	28-SOIC	23.27	21.72	20.17
PCM1760U-L	PCM1760U-L-ND	Dual 20-Bit ADC	28-SOIC	24.17	22.56	20.95
PCM1800E	PCM1800E-ND	Single-Ended 20-Bit, Stereo ADC	24-SSOP	5.20	4.16	3.51
PCM1801U	PCM1801U-ND	16-Bit, Stereo Audio ADC	14-SOIC	5.40	4.32	3.36
PCM1802DB	PCM1802DB-ND	24-Bit, 96KHz Delta-Sigma Stereo ADC	20-SSOP	6.70	5.36	4.53
PCM1803ADB	296-19473-5-ND	Single Ended, Analog Input 24-Bit, 96KHz Stereo ADC ***NEW!***	20-SSOP	2.36	1.89	1.47
PCM1803DB	296-17658-5-ND	Single Ended, Analog Input 24-Bit, 96KHz Stereo ADC	20-SSOP	2.36	1.89	1.47
PCM1804DB	PCM1804DB-ND	24-Bit, 192KHz Delta-Sigma Stereo ADC	28-SSOP	8.66	7.80	6.92
PCM1807PW	296-18703-5-ND	Single-Ended Analog-Input 24-Bit, 96KHz, Stereo ADC	14-TSSOP	2.25	1.80	1.40
PCM1850PJT	296-16929-ND	24-Bit, 96KHz, Stereo ADC	32-TQFP	9.60	7.68	6.48
PCM1851PJT	296-16930-ND	24-Bit, 96KHz, Stereo ADC	32-TQFP	9.60	7.68	6.48
PCM4201PW	296-18031-5-ND	24-Bit, Low Power, Single Channel Audio ADC	16-TSSOP	5.00	4.00	3.38
PCM4202EVM	296-17597-ND	Evaluation Module for PCM4202	—	254.96	—	—
PCM4202DBT	296-17438-1-ND	High-Perf. 24-Bit, 216KHz Sampling Stereo Audio ADC	28-SSOP	9.08	8.18	7.25
PCM4202DBT	296-17438-2-ND	High-Perf. 24-Bit, 216KHz Sampling Stereo Audio ADC	28-SSOP	1737.25/250		
PCM4204EVM	296-18513-ND	Evaluation Module for PCM4204	—	254.96	—	—
PCM4204PAPT	296-17439-1-ND	High-Perf. 24-Bit, 216KHz Sampling 4-Channel Audio ADC	64-HTQFP	13.24	11.93	10.58
PCM4204PAPT	296-17439-2-ND	High-Perf. 24-Bit, 216KHz Sampling 4-Channel Audio ADC	64-HTQFP	2534.00/250		

DSP Compatible Analog-to-Digital Converter

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AFE1302Y/250	AFE1302YCT-ND	Analog ADSL Front End	48-TQFP	16.73	15.61	14.50
AFE1302Y/250	AFE1302YTR-ND	Analog ADSL Front End	48-TQFP	3554.00/250		

Digital-to-Analog Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC712P	DAC712P-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip.3	21.81	20.36	18.91
DAC712PB	DAC712PB-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	28.50	26.60	24.70
DAC712PK	DAC712PK-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	26.33	24.57	22.82
DAC712U	DAC712U-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	21.75	20.30	18.85
DAC712UB	296-14008-5-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	25.28	23.59	21.91
DAC714P	DAC714P-ND	16-Bit, DAC (Serial Data Interface)	16-Dip	25.05	23.38	21.71
DAC714U	DAC714U-ND	16-Bit, DAC (Serial Data Interface)	16-SOIC	21.75	20.30	18.85
DAC715P	DAC715P-ND	16-Bit, DAC (16-Bit Bus Interface)	28-Dip	27.48	25.65	23.82
DAC715U	DAC715U-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	23.78	22.19	20.61
DAC715UB	DAC715UB-ND	16-Bit, DAC (16-Bit Bus Interface)	28-SOIC	27.60	25.76	23.92
DAC716P	DAC716P-ND	16-Bit, DAC	16-Dip	27.48	25.65	23.82
DAC716PB	DAC716PB-ND	16-Bit, DAC	16-Dip	31.25	29.17	27.08
DAC716PK	DAC716PK-ND	16-Bit, DAC	16-Dip	29.13	27.19	25.25
DAC716U	DAC716U-ND	16-Bit, DAC	16-SOIC	23.78	22.19	20.61
DAC716UB	DAC716UB-ND	16-Bit, DAC	16-SOIC	27.60	25.76	23.92
DAC716UK	DAC716UK-ND	16-Bit, DAC	16-SOIC	25.50	23.80	22.10
DAC725JP	DAC725JP-ND	Dual 16-Bit, DAC	28-Dip	255.00	238.00	221.00
DAC811JU	DAC811JU-ND	MPU-Compatible 12-Bit, DAC	28-SOIC	16.50	15.40	14.30
DAC813AU	DAC813AU-ND	MPU-Compatible 12-Bit, DAC	28-SOIC	18.90	17.64	16.38
DAC813JP	DAC813JP-ND	MPU-Compatible 12-Bit, DAC	28-Dip	23.66	22.08	20.51
DAC813JU	DAC813JU-ND	MPU-Compatible 12-Bit, DAC	28-SOIC	18.90	17.64	16.38
DAC900E	DAC900E-ND	10-Bit, 165MSPS DAC	28-TSSOP	7.98	6.39	5.39
DAC900U	DAC900U-ND	10-Bit, 165MSPS Current Out DAC	28-SOIC	7.98	6.39	5.39
DAC902E	DAC902E-ND	12-Bit, 165MSPS DAC	28-TSSOP	9.41	8.48	7.52
DAC902U	DAC902U-ND	12-Bit, 165MSPS Current Out DAC	28-SOIC	9.41	8.48	7.52

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC904E	DAC904E-ND	14-Bit, 165MSPS DAC	28-TSSOP	11.63	10.47	9.29
DAC904U	DAC904U-ND	14-Bit, 165MSPS Current Out DAC	28-SOIC	11.63	10.47	9.29
DAC908E	DAC908E-ND	8-Bit, 165MSPS DAC	28-TSSOP	5.52	4.42	3.73
DAC908U	DAC908U-ND	8-Bit, 165MSPS Current Out DAC	28-SOIC	5.52	4.42	3.73
DAC1220E	DAC1220E-ND	20-Bit, Mono, LP, Delta-Sigma DAC	16-SSOP	11.08	9.98	8.85
DAC1220EVM	296-17265-ND	Evaluation Module for DAC1220	—	62.78	—	—
DAC1221E	DAC1221E-ND	16-Bit, DAC	16-SSOP	8.75	7.88	6.99
DAC2900Y/250	DAC2900Y/250CT-ND	10-Bit, 125MSPS Dual DAC	48-TQFP	10.45	9.41	8.34
DAC2900Y/250	DAC2900Y/250TR-ND	10-Bit, 125MSPS Dual DAC	48-TQFP	1998.50/250		
DAC2902Y/250	DAC2902Y/250CT-ND	12-Bit, 125MSPS Dual DAC	48-TQFP	16.82	15.70	14.58
DAC2902Y/250	DAC2902Y/250TR-ND	12-Bit, 125MSPS Dual DAC	48-TQFP	3573.25/250		
DAC2904Y/250	296-13071-1-ND	Dual, 14-Bit, 125MSPS DAC	48-TQFP	18.81	17.56	16.31
DAC2904Y/250	296-13071-2-ND	Dual, 14-Bit, 125MSPS DAC	48-TQFP	3997.25/250		
DAC2932PFBT	296-15714-1-ND	Dual, 12-Bit, 40MSPS DAC	48-TQFP	15.33	13.80	12.24
DAC2932PFBT	296-15714-2-ND	Dual, 12-Bit, 40MSPS DAC	48-TQFP	2932.50/250		
DAC5571EVM	296-18410-ND	Evaluation Module for DAC5571	—	62.78	—	—
DAC5571IDBVT	296-17199-1-ND	2.7V-5.5V, I2C Interface, Volt. Output 8-Bit DAC	SOT-23-6	2.48	1.98	1.49
DAC5571IDBVT	296-17199-2-ND	2.7V-5.5V, I2C Interface, Volt. Output 8-Bit DAC	SOT-23-6	346.50/250		
DAC5573EVM	296-16741-ND	Evaluation Module for DAC5573	—	62.78	—	—
DAC5573IPW	296-16636-5-ND	Quad, 8-Bit, LP, Volt. Out, DAC	16-TSSOP	5.10	4.08	3.45
DAC5574EVM	296-18411-ND	Evaluation Module for DAC5574	—	62.78	—	—
DAC5574IDGS	296-16665-5-ND	Quad, 8-Bit, LP, Volt. Out, DAC	10-MSOP	5.10	4.08	3.45
DAC5652EVM	296-17891-ND	Evaluation Module for DAC5652	—	190.89	—	—
DAC5652IPFB	296-17892-ND	Dual, 10-Bit, 200MSPS DAC	48-TQFP	12.66	11.40	10.11
DAC5662IPFB	296-17242-ND	Dual, 12-Bit, 200MSPS DAC	48-TQFP	15.26	14.24	13.23
DAC5672IPFB	296-17549-ND	Dual, 14-Bit, 200MSPS DAC	48-TQFP	19.88	18.55	17.23
DAC5674IPHP	296-15726-ND	14-Bit, 400MSPS DAC	48-HTQFP	22.50	21.00	19.50
DAC5675AIPHP	296-18215-ND	14-Bit, 400MSPS DAC	48-HTQFP	37.50	35.00	32.50
DAC5686EVM	296-17515-ND	Evaluation Module for DAC5686	—	254.96	—	—
DAC5686IPZP	296-16695-5-ND	16-Bit, 500MSPS, Dual-Ch. DAC	100-HTQFP	29.63	27.65	25.68
DAC5687EVM	296-18682-ND	Evaluation Module for DAC5687	—	254.96	—	—
DAC5687IPZP	296-17935-ND	16-Bit, 500MSPS, 2x-8x Interpolating Dual-Channel DAC	100-HTQFP	33.75	31.50	29.25
DAC6571EVM	296-18412-ND	Evaluation Module for DAC6571	—	62.78	—	—
DAC6571IDBVT	296-18413-1-ND	2.7V to 5.5V, I2C Interface, Volt. Output, 10-Bit DAC	SOT-23-6	3.49	2.79	2.17
DAC6571IDBVT	296-18413-2-ND	2.7V to 5.5V, I2C Interface, Volt. Output, 10-Bit DAC	SOT-23-6	515.50/250		
DAC6573EVM	296-16742-ND	Evaluation Module for DAC6573	—	62.78	—	—
DAC6573IPW	296-16637-5-ND	Quad, 10-Bit, LP, Volt. Out, DAC	16-TSSOP	6.10	4.88	4.12
DAC6574EVM	296-18414-ND	Evaluation Module for DAC6574	—	62.78	—	—
DAC6574IDGS	296-16666-5-ND	Quad, 10-Bit, LP, Volt. Out, DAC	10-MSOP	6.10	4.88	4.12
DAC7512E/250	DAC7512ECT-ND	12-Bit, Serial-In, LP, R/R, DAC	8-MSOP	3.53	2.83	2.20
DAC7512E/250	DAC7512ETR-ND	12-Bit, Serial-In, LP, R/R, DAC	8-MSOP	522.00/250		
DAC7512N/250	DAC7512NTR-ND	12-Bit, Serial In, LP R/R DAC	SOT-23-6	505.50/250		
DAC7513E/250	DAC7513ECT-ND	12-Bit, Serial In, LP R/R DAC	8-MSOP	3.71	2.97	2.31
DAC7513E/250	DAC7513ETR-ND	12-Bit, Serial In, LP R/R DAC	8-MSOP	548.75/250		
DAC7513N/250	DAC7513NCT-ND	12-Bit, Serial In, LP R/R DAC	SOT-23-8	3.60	2.88	2.24
DAC7513N/250	DAC7513NTR-ND	12-Bit, Serial In, LP R/R DAC	SOT-23-8	532.00/250		
DAC7541AJP	DAC7541AJP-ND	Quad 12-Bit, CMOS DAC	18-Dip	11.71	10.55	9.35
DAC7541AJU	DAC7541AJU-ND	Quad 12-Bit, CMOS DAC	18-SOIC	10.61	9.56	8.48
DAC7541AKP	DAC7541AKP-ND	Quad 12-Bit, CMOS DAC	18-Dip	13.38	12.05	10.68
DAC7541AKU	DAC7541AKU-ND	Quad 12-Bit, CMOS DAC	18-SOIC	12.35	11.12	9.86
DAC7545GLU	DAC7545GLU-ND	12-Bit, CMOS Multiplying DAC (MPU Compatible)	20-SOIC	18.03	16.83	15.63
DAC7545JU	DAC7545JU-ND	12-Bit, CMOS Multiplying DAC (MPU Compatible)	20-SOIC	9.98	7.99	6.74
DAC7551IDRNT	296-18583-1-ND	12-Bit, Voltage Output, DAC	12-SON	3.49	2.79	2.17
DAC7551IDRNT	296-18583-2-ND	12-Bit, Voltage Output, DAC	12-SON	515.50/250		
DAC7552IRGTR	296-18222-1-ND	12-Bit, Dual, Ultralow Glitch, Voltage Output DAC	16-QFN	5.29	4.23	3.29
DAC7552IRGTR	296-18222-2-ND	12-Bit, Dual, Ultralow Glitch, Voltage Output DAC	16-QFN	8883.00/3,000		
DAC7553IRGTT	296-18683-1-ND	12-Bit, Dual, Ultralow Glitch, Voltage Output DAC	16-QFN	5.20	4.16	3.51
DAC7553IRGTT	296-18683-2-ND	12-Bit, Dual, Ultralow Glitch, Voltage Output DAC	16-QFN	845.00/250		
DAC7554EVM	296-17893-ND	Evaluation Module for DAC7554	—	62.78	—	—
DAC7554IDGS	296-17551-5-ND	12-Bit, Quad, Voltage Output DAC	10-MSOP	9.33	8.40	7.45
DAC7558IRHBR	296-18198-1-ND	2.7V to 5.5V, 12-Bit, Octal, Ultralow Glitch, Voltage Output DAC	32-QFN	15.60	14.56	13.52
DAC7558IRHBR	296-18198-2-ND	2.7V to 5.5V, 12-Bit, Octal, Ultralow Glitch, Voltage Output DAC	32-QFN	37908.00/3,000		
DAC7571IDBVT	296-14345-1-ND	12-Bit, I2C Voltage Output DAC	SOT23-6	3.94	3.15	2.45
DAC7571IDBVT	296-14345-2-ND	12-Bit, I2C Voltage Output DAC	SOT23-6	582.00/250		
DAC7573EVM	296-16743-ND	Evaluation Module For DAC7573	—	62.78	—	—
DAC7573IPW	296-15745-5-ND	12-Bit, Quad, Low Power, Voltage Output I2C Interface DAC	16-TSSOP	10.25	9.23	8.18
DAC7574IDGSR	296-15227-1-ND	12-Bit, Quad, Low Power, Voltage Output I2C Interface DAC	10-MSOP	10.25	9.23	8.18
DAC7574IDGSR	296-15227-2-ND	12-Bit, Quad, Low Power, Voltage Output I2C Interface DAC	10-MSOP	18680.00/2,500		
DAC7611P	DAC7611P-ND	12-Bit, Serial General Purpose DAC	8-Dip	5.86	4.69	3.96
DAC7611PB	DAC7611PB-ND	12-Bit, Serial General Purpose DAC	8-Dip	6.72	5.38	4.54
DAC7611U	DAC7611U-ND	12-Bit, Serial General Purpose DAC	8-SOIC	5.45	4.36	3.39
DAC7611UB	DAC7611UB-ND	12-Bit, Serial General Purpose DAC	8-SOIC	5.70	4.56	3.85
DAC7612U	DAC7612U-ND	12-Bit, Dual/Serial GP DAC	8-SOIC	5.40	4.32	3.65
DAC7612UB	DAC7612UB-ND	12-Bit, Dual/Serial GP DAC	8-SOIC	6.30	5.04	4.26
DAC7613E	DAC7613E-ND	12-Bit, Volt. Out Mono Parallel DAC ±2LSB	24-SSOP	5.00	4.00	3.38
DAC7613EB	DAC7613EB-ND	12-Bit, Volt. Out Mono Parallel DAC ±1LSB	24-SSOP	5.80	4.64	3.92
DAC7631EVM	296-17621-ND	Evaluation Module for DAC7631	—	62.78	—	—
DAC7614E	DAC7614E-ND	Quad Serial-In 12-Bit DAC	20-SSOP	10.61	9.56	8.48
DAC7614EB	DAC7614EB-ND	Quad Serial-In 12-Bit DAC	20-SSOP	11.40	10.26	9.10
DAC7614P	DAC7614P-ND	Quad Serial-In 12-Bit DAC, ±2 LSB	16-Dip	16.43	14.79	13.12
DAC7614PB	DAC7614PB-ND	Quad Serial-In 12-Bit DAC, ±1 LSB	16-Dip	15.62	14.58	13.54
DAC7614U	DAC7614U-ND	Quad Serial-In 12-Bit DAC, ±2 LSB	16-SOIC	10.61	9.56	8.48
DAC7614UB	DAC7614UB-ND	Quad Serial-In 12-Bit DAC, ±1 LSB	16-SOIC	11.40	10.26	9.10
DAC7615E	DAC7615E-ND	Quad Serial-In 12-Bit DAC	20-QSOP	11.16	10.05	8.92
DAC7615P	DAC7615P-ND	Quad Serial-In 12-Bit, General Purpose DAC, ±2 LSB	16-Dip	16.43	14.79	13.12
DAC7615PB	DAC7615PB-ND	Quad Serial-In 12-Bit, General Purpose DAC, ±1 LSB	16-Dip	15.62	14.58	13.54
DAC7615U	DAC7615U-ND	Quad Serial-In 12-Bit, General Purpose DAC, ±2 LSB	16-SOIC	11.16	10.05	8.92
DAC7615UB	DAC7615UB-ND	Quad Serial-In 12-Bit, General Purpose DAC, ±1 LSB	16-SOIC	12.00	10.80	9.58
DAC7616EB	DAC7616EB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	20-SSOP	9.66	8.70	7.72
DAC7616UB	DAC7616UB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	16-SOIC	9.66	8.70	7.72
DAC7617EB	DAC7617EB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	20-SSOP	9.66	8.70	7.72
DAC7617UB	DAC7617UB-ND	Quad Serial In 12-Bit DAC, ±1 LSB	16-SOIC	9.66	8.70	7.72
DAC7621E	DAC7621E-ND	12-Bit, Parallel In DAC, ±2LSB	20-SSOP	5.50	4.40	3.72
DAC7621EB	DAC7621EB-ND	12-Bit, Parallel In DAC, ±1LSB	20-SSOP	6.40	5.12	4.32
DAC7624P	DAC7624P-ND	12-Bit, Quad DAC, ±2LSB, Mid-Scale Reset	28-Dip	16.83	15.71	14.59
DAC7624PB	DAC7624PB-ND	12-Bit, Quad DAC, ±1LSB, Mid-Scale Reset	28-Dip	17.85	16.66	15.47
DAC7624U	DAC7624U-ND	12-Bit, Quad DAC, ±2LSB, Mid-Scale Reset	28-SOIC	16.23	14.61	12.96
DAC7624UB	DAC7624UB-ND	12-Bit, Quad DAC, ±1LSB, Mid-Scale Reset	28-SOIC	15.60	14.56	13.52
DAC7625P	DAC7625P-ND	12-Bit, Quad DAC, ±2LSB, Zero-Scale Reset	28-Dip	16.83	15.71	14.59
DAC7625PB	DAC7625PB-ND	12-Bit, Quad DAC, ±1LSB, Zero-Scale Reset	28-Dip	17.85	16.66	15.47
DAC7625U	DAC7625U-ND	12-Bit, Quad DAC, ±2LSB, Zero-Scale Reset	28-SOIC	16.23	14.61	12.96
DAC7625UB	DAC7625UB-ND	12-Bit, Quad DAC, ±1LSB, Zero-Scale Reset	28-SOIC	15.60	14.56	13.52
DAC7631E	DAC7631E-ND	16-Bit, Low Power (2.5mW) DAC	20-SSOP	9.75	8.78	7.79
DAC7631EB	DAC7631EB-ND	16-Bit, Low Power (2.5mW) DAC	20-SSOP	11.50	10.35	9.18
DAC7632VFR	296-12630-1-ND	16-Bit, Dual DAC	32-LQFP	17.41	15.68	13.90
DAC7632VFR	296-12630-2-ND	16-Bit, Dual DAC	32-LQFP	12906.00/1,000		
DAC7634E	DAC7634E-ND	16-Bit, Quad DAC	48-SSOP	29.93	27.93	25.94
DAC7634EB	DAC7634EB-ND	16-Bit, Quad DAC	48-SSOP	34.73	32.41	30.10
DAC7641YB/250	DAC7641YBCT-ND	16-Bit, 5V, DAC	32-TQFP	13.24	11.93	10.58
DAC7641YB/250	DAC7641YBTR-ND	16-Bit, 5V, DAC	32-TQFP	2534.00/250		
DAC7641Y/250	DAC7641YCT-ND	16-Bit, 5V, DAC	32-TQFP	11.58	10.43	9.25
DAC7641Y/250	DAC7641YTR-ND	16-Bit, 5V, DAC	32-TQFP	2215.25/250		
DAC7642VFT	DAC7642VFTCT-ND	16-Bit, Dual Low Power DAC	32-LQFP	17.48	16.31	15.15
DAC7642VFT	DAC7642VFTTR-ND	16-Bit, Dual Low Power DAC	32-LQFP	3713.50/250		
DAC7643VFT	DAC7643VFTCT-ND	16-Bit, Dual Low Power DAC	32-LQFP	17.48	16.31	15.15
DAC7643VFT	DAC7643VFTTR-ND	16-Bit, Dual Low Power DAC	32-LQFP	3713.50/250		
DAC7644E	DAC7644E-ND	16-Bit, Quad/Parallel ±5V, DAC	48-SSOP	29.93	27.93	26.94
DAC7644EB	DAC7644EB-ND	16-Bit, Quad/Parallel ±5V, DAC	48-SSOP	34.73	32.41	30.10
DAC7654EVM	296-16990-ND	Evaluation Module for DAC7654	—	62.78	—	—
DAC7654YCT	296-17887-ND	16-Bit, Quad Voltage Out, DAC	64-LQFP	42.23	39.41	36.60
DAC7664YCT	296-16928-1-ND	16-Bit, Quad Voltage Out, DAC	64-LQFP	40.20	37.52	34.84
DAC7664YCT	296-16928-2-ND	16-Bit, Quad Voltage Out, DAC	64-LQFP	8542.50/250		
DAC7714U	DAC7714U-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	16.32	15.24	14.15
DAC7714UB	DAC7714UB-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	17.96	16.76	15.57
DAC7715U	DAC7715U-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	17.18	16.03	14.89
DAC7715UB	DAC7715UB-ND	12-Bit, Quad Voltage Out, Serial DAC	16-SOIC	18.90	17.64	16.38
DAC7724N	DAC7724N-ND	12-Bit, Quad Parallel DAC	28-PLCC	17.75	16.57	15.38
DAC7724NB	DAC7724NB-ND	12-Bit, Quad Parallel DAC	28-PLCC	19.02	17.76	16.49
DAC7724U	DAC7724U-ND	12-Bit, Quad Parallel DAC	28-SOIC	16.89	15.77	14.64
DAC7724UB	DAC7724UB-ND	12-Bit, Quad Parallel DAC	28-SOIC	18.68	17.43	16.19
DAC7725N	DAC7725N-ND	12-Bit, Quad Parallel DAC	28-PLCC	17.75	16.57	15.38
DAC7725NB	DAC7725NB-ND	12-Bit, Quad Parallel DAC	28-PLCC	19.02	17.76	16.49
DAC7725UB	DAC7725UB-ND	12-Bit, Quad Parallel DAC	28-SOIC	18.68	17.43	16.19
DAC7731EC	DAC7731EC-ND	16-Bit, Low Power DAC	24-SSOP	15.90	14.84	13.78
DAC7734E	DAC7734E-ND	Quad Serial 16-Bit, Voltage Out DAC	48-SSOP	47.18	44.03	40.89
DAC7734EB	DAC7734EB-ND	Quad Serial 16-Bit, Voltage Out DAC	48-SSOP	51.90	48.44	44.98
DAC7734EC	DAC7734EC-ND	Quad Serial 16-Bit, Voltage Out DAC	48-SSOP	60.90	56.84	52.78
DAC7741Y/250	296-14009-1-ND	16-Bit, Single Channel DAC	48-LQFP	15.99	14.40	12.77
DAC7741Y/250	296-14009-2-ND	16-Bit, Single Channel DAC	48-LQFP	3060.00/250		
DAC7741YB/250	296-12702-1-ND	16-Bit, Single Channel DAC	48-LQFP	16.50	15.40	14.30
DAC7741YB/250	296-12702-2-ND	16-Bit, Single Channel DAC	48-LQFP	3506.25/250		
DAC7741YC/250	DAC7741YC/250CT-ND	16-Bit, Low Power DAC	48-LQFP	18.15	16.94	15.73
DAC7741YC/250	DAC7741YC/250TR-ND	16-Bit, Low Power DAC	48-LQFP	3857.00/250		
DAC7742Y/250	296-14169-1-ND	16-Bit, Mono Parallel DAC	48-LQFP	15.99	14.40	12.77
DAC7742Y/250	296-14169-2-ND	16-Bit, Mono Parallel DAC	48-LQFP	3060.00/250		
DAC7742YB/250	296-14167-1-ND	16-Bit, Mono Parallel DAC	48-LQFP	16.50	15.40	14.30
DAC7742YB/250	296-14167-2-ND	16-Bit, Mono Parallel DAC	48-LQFP	3506.25/250		
DAC7742YC/250	296-14168-1-ND	16-Bit, Mono Parallel DAC	48-LQFP	18.15	16.94	15.73
DAC7742YC/250	296-14168-2-ND	16-Bit, Mono Parallel DAC	48-LQFP	3857.00/250		
DAC7744E	DAC7744E-ND	Quad Parallel 16-Bit DAC	48-SSOP	47.18	44.03	40.89
DAC7744EB	DAC7744EB-ND	Quad Parallel 16-Bit DAC	48-SSOP	51.90	48.44	44.98
DAC7744EC	DAC7744EC-ND	Quad Parallel 16-Bit DAC	48-SSOP	60.90	56.84	52.78
DAC7800LU	296-12976-5-ND	Dual 12-Bit, Monolithic DAC	16-SOIC	29.36	27.40	25.45
DAC7801KP	DAC7801KP-ND	Dual 12-Bit, Monolithic DAC	24-Dip	27.68	25.83	23.99
DAC7801LP	DAC7801LP-ND	Dual 12-Bit, Monolithic DAC	24-Dip	34.94	32.61	30.28
DAC7801LU	296-18289-5-ND	Dual 12-Bit, Monolithic DAC	24-SOIC	30.86	28.80	26.75
DAC7802KU	296-12978-5-ND	Dual 12-Bit, Monolithic DAC	24-SOIC	19.95	18.62	17.29
DAC7802LP	DAC7802LP-ND	Dual 12-Bit, Monolithic DAC	24-Dip	33.47	31.24	29.01
DAC7802LU	296-12980-5-ND	Dual 12-Bit, Monolithic DAC	24-SOIC	30.36	28.34	26.32
DAC7811EVM	296-18684-ND	Evaluation Module for DAC7811	—	62.78	—	—
DAC7821IPW	296-19540-5-ND	12-Bit, Parallel In, Multiplying DAC ***NEW!***	20-TSSOP	6.30	5.04	4.26
DAC8043UC	DAC8043UC-ND	Serial-In 12-Bit DAC	8-SOIC	8.55	7.70	6.83
DAC8043U	DAC8043U-ND	Serial-In 12-Bit DAC	8-SOIC	6.84	5.48	4.62
DAC8501E/250	DAC8501E/250CT-ND	16-Bit, Low Power DAC	8-MSOP	6.60	5.28	4.46
DAC8501E/250	DAC8501E/250TR-ND	16-Bit, Low Power DAC	8-MSOP	1072.50/250		
DAC8531E/250	DAC8531E/250CT-ND	16-Bit, Low Power DAC	8-MSOP	6.28	5.03	4.24
DAC8531E/250	DAC8531E/250TR-ND	16-Bit, Low Power DAC	8-MSOP	1020.50/250		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC8531IDRBT	296-15727-1-ND	16-Bit, Low Power, R/R Output DAC	8-SON	6.28	5.03	4.24
DAC8531IDRBT	296-15727-2-ND	16-Bit, Low Power, R/R Output DAC	8-SON	1020.50/250		
DAC8532IDGK	DAC8532IDGK-ND	16-Bit, 2-Channel, Low Power DAC	8-MSOP	8.91	8.03	7.12
DAC8534EVM	296-17255-ND	Evaluation Module for DAC8534	—	62.78	—	—
DAC8534IPW	296-13718-5-ND	Quad Channel, Low Power, 16-Bit, Serial Input DAC	16-TSSOP	14.58	13.13	11.64
DAC8541Y/250	296-12427-1-ND	16-Bit, Low Power DAC	32-TQFP	6.60	5.28	4.46
DAC8541Y/250	296-12427-2-ND	16-Bit, Low Power DAC	32-TQFP	1072.50/250		
DAC8544IPFB	296-17092-ND	Quad, 16-Bit, R/R Volt. Output DAC	48-TQFP	16.24	14.63	12.97
DAC8551IDGKT	296-18290-1-ND	16-Bit Ultra Low Glitch, Voltage Output DAC	8-MSOP	6.18	4.95	4.18
DAC8551IDGKT	296-18290-2-ND	16-Bit Ultra Low Glitch, Voltage Output DAC	8-MSOP	1004.25/250		
DAC8554EVM	296-19429-ND	Evaluation Module for DAC8554 ***NEW!***	—	62.78	—	—
DAC8554IPW	296-18310-5-ND	16-Bit, Quad Ch., Ultralow Glitch, Voltage Output DAC	16-TSSOP	15.60	14.56	13.52
DAC8555IPW	296-19402-5-ND	16-Bit, Quad Channel, Ultralow Glitch, Voltage Out DAC ***NEW!***	16-TSSOP	15.60	14.56	13.52
DAC8571IDGKR	296-14307-1-ND	16-Bit, Low Power I2C DAC	8-MSOP	5.90	4.72	3.99
DAC8571IDGKR	296-14307-2-ND	16-Bit, Low Power I2C DAC	8-MSOP	9145.00/2,500		
DAC8574EVM	296-18415-ND	Evaluation Module for DAC8574	—	62.78	—	—
DAC8574IPW	296-14170-5-ND	16-Bit, Quad Rail-to-Rail DAC	16-TSSOP	15.38	14.35	13.33
DAC8580EVM	296-19403-3-ND	Evaluation Module for DAC8580 ***NEW!***	—	62.78	—	—
DAC8580IPW	296-18311-5-ND	16-Bit, High Speed, Low Noise, Voltage Output DAC	16-TSSOP	6.00	4.80	4.05
DAC8581EVM	296-19404-3-ND	Evaluation Module for DAC8581 ***NEW!***	—	62.78	—	—
DAC8581IPW	296-18312-5-ND	16-Bit, High Speed, Low Noise, Voltage Output DAC	16-TSSOP	6.00	4.80	4.05
DAC8801EVM	296-18416-ND	Evaluation Module for DAC8801	—	62.78	—	—
DAC8801IDGKT	296-17641-1-ND	14-Bit Multiplying DAC	8-MSOP	10.08	9.08	8.05
DAC8801IDGKT	296-17641-2-ND	14-Bit Multiplying DAC	8-MSOP	1928.50/250		
DAC8801IDRBT	296-17642-1-ND	14-Bit Multiplying DAC	8-SON	10.08	9.08	8.05
DAC8801IDRBT	296-17642-2-ND	14-Bit Multiplying DAC	8-SON	1928.50/250		
DAC8802IPW	296-19405-5-ND	Dual Serial Input 14-Bit Multiplying DAC ***NEW!***	16-TSSOP	12.08	10.88	9.65
DAC8803IDBT	296-18685-1-ND	Quad Serial Input 14-Bit Multiplying DAC	28-SSOP	23.78	22.19	20.61
DAC8803IDBT	296-18685-2-ND	Quad Serial Input 14-Bit Multiplying DAC	28-SSOP	5052.25/250		
DAC8811EVM	296-18417-ND	Evaluation Module for DAC8811	—	62.78	—	—
DAC8811IBDGKT	296-17643-1-ND	16-Bit Multiplying DAC	8-MSOP	15.58	14.03	12.44
DAC8811IBDGKT	296-17643-2-ND	16-Bit Multiplying DAC	8-MSOP	2980.25/250		
DAC8811IBDRBT	296-17644-1-ND	16-Bit Multiplying DAC	8-SON	15.58	14.03	12.44
DAC8811IBDRBT	296-17644-2-ND	16-Bit Multiplying DAC	8-SON	2980.25/250		
DAC8811ICDGKT	296-17645-1-ND	16-Bit Multiplying DAC	8-MSOP	16.13	15.05	13.98
DAC8811ICDGKT	296-17645-2-ND	16-Bit Multiplying DAC	8-MSOP	3426.50/250		
DAC8811ICDRBT	296-17646-1-ND	16-Bit Multiplying DAC	8-SON	16.13	15.05	13.98
DAC8811ICDRBT	296-17646-2-ND	16-Bit Multiplying DAC	8-SON	3426.50/250		
DAC8812IBPW	296-19406-5-ND	Dual, Serial Input 16-Bit Multiplying DAC ***NEW!***	16-TSSOP	13.99	12.60	11.18
DAC8812ICPW	296-19407-5-ND	Dual, Serial Input 16-Bit Multiplying DAC ***NEW!***	16-TSSOP	16.24	14.63	12.97
DAC8814IBDBT	296-18608-1-ND	Quad, Serial In 16-Bit Multiplying DAC	28-SSOP	31.80	29.68	27.56
DAC8814IBDBT	296-18608-2-ND	Quad, Serial In 16-Bit Multiplying DAC	28-SSOP	6757.50/250		
DAC8814ICDBT	296-18609-1-ND	Quad, Serial In 16-Bit Multiplying DAC	28-SSOP	36.45	34.02	31.59
DAC8814ICDBT	296-18609-2-ND	Quad, Serial In 16-Bit Multiplying DAC	28-SSOP	7745.75/250		
DAC8830IBDT	296-18025-1-ND	2.7V to 5.5V, 16-Bit Low Power, Voltage Output DAC	8-SOIC	15.49	13.95	12.37
DAC8830IBDT	296-18025-2-ND	2.7V to 5.5V, 16-Bit Low Power, Voltage Output DAC	8-SOIC	2964.50/250		
DAC8830ICDT	296-18026-1-ND	2.7V to 5.5V, 16-Bit Low Power, Voltage Output DAC	8-SOIC	15.91	14.33	12.71
DAC8830ICDT	296-18026-2-ND	2.7V to 5.5V, 16-Bit Low Power, Voltage Output DAC	8-SOIC	3044.00/250		
DAC8830IDT	296-18027-1-ND	2.7V to 5.5V, 16-Bit Low Power, Voltage Output DAC	8-SOIC	14.58	13.13	11.64
DAC8830IDT	296-18027-2-ND	2.7V to 5.5V, 16-Bit Low Power, Voltage Output DAC	8-SOIC	2789.00/250		
DAC8831IBD	296-18028-5-ND	2.7V to 5.5V, 16-Bit Low Power, Voltage Output DAC	14-SOIC	14.24	12.83	11.38
DAC8831ICD	296-18029-5-ND	2.7V to 5.5V, 16-Bit Low Power, Voltage Output DAC	14-SOIC	14.58	13.13	11.64
DAC8831ID	296-18030-5-ND	2.7V to 5.5V, 16-Bit Low Power, Voltage Output DAC	14-SOIC	13.24	11.93	10.58
DAC8832ICRGYT	296-19588-1-ND	16-Bit Ultra Low Power, Voltage Output DAC ***NEW!***	14-QFN	15.91	14.33	12.71
DAC8832ICRGYT	296-19588-2-ND	16-Bit Ultra Low Power, Voltage Output DAC ***NEW!***	14-QFN	3044.00/250		
PCA9306DCUR	296-17988-1-ND	Dual Bidirectional I2C Bus/SMBus Voltage Level Translator	8-VSSOP	.90	.75	.60
PCA9306DCUR	296-17988-2-ND	Dual Bidirectional I2C Bus/SMBus Voltage Level Translator	8-VSSOP	1170.00/3,000		
PCM1602APT	296-18701-1-ND	24-Bit, 192KHz Sampling 6-Channel Enhanced Multilevel Delta-Sigma DAC	48-LQFP	5.60	4.48	3.78
PCM1602APT	296-18701-2-ND	24-Bit, 192KHz Sampling 6-Channel Enhanced Multilevel Delta-Sigma DAC	48-LQFP	910.00/250		
PCM1606E	296-13111-5-ND	24-Bit, 6-Channel, Enhanced Multilevel Delta-Sigma DAC	20-SSOP	4.50	3.60	2.80
PCM1609APT	296-18702-1-ND	24-Bit, 192KHz Sampling 8-Channel Enhanced Multilevel Delta-Sigma DAC	48-LQFP	6.40	5.12	4.32
PCM1609APT	296-18702-2-ND	24-Bit 192KHz Sampling 8-Channel Enhanced Multilevel Delta-Sigma DAC	48-LQFP	1040.00/250		
PCM1702U	PCM1702U-ND	20-Bit Advance Sign Magnitude DAC	20-SOIC	18.60	17.36	16.12
PCM4104EVM	296-18512-ND	Evaluation Module for PCM4104	—	254.96	—	—
PCM4104PFBT	296-16926-1-ND	24-Bit, 200KHz, 4-Ch. Audio DAC	48-TQFP	9.08	8.18	7.25
PCM4104PFBT	296-16926-2-ND	24-Bit, 200KHz, 4-Ch. Audio DAC	48-TQFP	1737.25/250		
THS5641AIDW	296-2989-5-ND	8-Bit, 100MSPS 3-5V Single DAC	28-SOIC	5.52	4.42	3.73
THS5641AIPW	296-2990-5-ND	8-Bit, 100MSPS 3-5V Single DAC	28-TSSOP	5.52	4.42	3.73
THS5651AIDW	296-2992-5-ND	10-Bit, 125MSPS 3-5V Single DAC	20-SOIC	8.56	6.85	5.78
THS5651AIPW	296-2287-5-ND	10-Bit, 125MSPS 3-5V Single DAC	28-TSSOP	8.56	6.85	5.78
THS5661AIDW	296-2995-5-ND	12-Bit, 125MSPS 3-5V Single DAC	28-SOIC	10.45	9.41	8.34
THS5661AIPW	296-2288-5-ND	12-Bit, 125MSPS 3-5V Single DAC	28-TSSOP	10.45	9.41	8.34
THS5671AIDW	296-2998-5-ND	14-Bit, 125MSPS 3-5V Single DAC	28-SOIC	11.63	10.47	9.29
THS5671AIPW	296-2289-5-ND	14-Bit, 125MSPS 3-5V Single DAC	28-TSSOP	11.63	10.47	9.29
THS8083A95PZP	296-13345-ND	Triple 8-Bit, 95MSPS, 3.3V Video and Graphics Digitizer w/Digital PLL	100-HTQFP	14.23	12.81	11.36
THS8133BCPHP	296-2999-ND	10-Bit, 80MSPS 3-5V Triple Video DAC	48-HTQFP	12.99	11.70	10.38
THS8134BCPHP	296-3001-ND	8-Bit, 80MSPS 3-5V Triple Video DAC	48-HTQFP	9.75	8.78	7.79
THS8135PHP	296-13049-5-ND	Triple 10-Bit Video DAC	48-HTQFP	8.33	7.50	6.65
TLC5602CDW	296-3003-5-ND	8-Bit, 30MSPS 5V Single Video DAC	20-SOIC	3.31	2.65	2.06
TLC5615CD	296-3004-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-SOIC	4.07	3.26	2.54
TLC5615CDGK	296-3005-5-ND	10-Bit, 12.5us, 5V Single Serial DAC	8-TSSOP	4.07	3.26	2.54
TLC5615CP	296-3006-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-Dip	4.07	3.26	2.54
TLC5615ID	296-3007-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-SOIC	4.28	3.42	2.66
TLC5615IP	296-2292-5-ND	10-Bit, 12.5µs, 5V Single Serial DAC	8-Dip	4.28	3.42	2.66
TLC5618AQD	296-3011-5-ND	12-Bit, 2.5µs, 5V Dual Serial DAC	8-SOIC	8.82	7.06	5.96
TLC5620CD	296-1861-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	3.38	2.70	2.10
TLC5620CN	296-1862-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-Dip	3.60	2.88	2.24
TLC5620ID	296-1339-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	3.60	2.88	2.24
TLC5620IDR	296-1339-1-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	3.60	2.88	2.24
TLC5620IDR	296-1339-2-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-SOIC	5040.00/2,500		
TLC5620IN	296-3012-5-ND	8-Bit, 10µs, 5V Quad Serial DAC	14-Dip	3.83	3.06	2.38
TLC5628CDW	296-1864-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-SOIC	5.51	4.41	3.43
TLC5628CN	296-1865-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-Dip	5.10	4.08	3.45
TLC5628IDW	296-3013-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-SOIC	5.20	4.16	3.51
TLC5628IN	296-3014-5-ND	8-Bit, 10µs, 5V Octal Serial DAC	16-Dip	5.50	4.40	3.72
TLC7225CDW	296-3015-5-ND	8-Bit, 5µs, 5-15V Quad Parallel DAC	24-SOIC	5.02	4.02	3.13
TLC7225IDW	296-3016-5-ND	8-Bit, 5µs, 5-15V Quad Parallel DAC	24-SOIC	5.36	4.29	3.34
TLC7226CDW	296-3017-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-SOIC	4.59	3.68	2.86
TLC7226CN	296-3018-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-Dip	4.82	3.86	3.00
TLC7226IDW	296-3019-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-SOIC	4.93	3.95	3.07
TLC7226IN	296-2296-5-ND	8-Bit, 5µs, 15V Quad Parallel DAC	20-Dip	5.24	4.20	3.27
TLC7524CD	296-1866-5-ND	8-Bit, 0.1µs, 5-15V Single Parallel Multiplying DAC	16-SOIC	3.11	2.49	1.94
TLC7524CFN	296-1867-5-ND	8-Bit, 0.1µs, 5-15V Single Parallel Multiplying DAC	20-PLCC	3.11	2.49	1.94
TLC7524CN	296-1868-5-ND	8-Bit, 0.1µs, 5-15V Single Parallel Multiplying DAC	16-Dip	3.31	2.65	2.06
TLC7524CPW	296-3020-5-ND	8-Bit, 0.1µs, 5-15V Single Parallel Multiplying DAC	16-TSSOP	3.11	2.49	1.94
TLC7524EN	296-1869-5-ND	8-Bit, 0.1µs, 5-15V Single Parallel Multiplying DAC	16-Dip	3.74	2.99	2.33
TLC7524ID	296-3021-5-ND	8-Bit, 0.1µs, 5-15V Single Parallel Multiplying DAC	16-SOIC	3.31	2.65	2.06
TLC7524IFN	296-3022-5-ND	8-Bit, 0.1µs, 5-15V Single Parallel Multiplying DAC	16-PLCC	3.31	2.65	2.06
TLC7524IN	296-3023-5-ND	8-Bit, 0.1µs, 5-15V Single Parallel Multiplying DAC	16-Dip	3.53	2.83	2.20
TLC7528CDW	296-1340-5-ND	8-Bit, 0.1µs, 5-15V Dual Parallel Multiplying DAC	20-SOIC	3.31	2.65	2.06
TLC7528CDWR	296-1340-1-ND	8-Bit, 0.1µs, 5-15V Dual Parallel Multiplying DAC	20-SOIC	3.31	2.65	2.06
TLC7528CDWR	296-1340-2-ND	8-Bit, 0.1µs, 5-15V Dual Parallel Multiplying DAC	20-SOIC	3748.00/2,000		
TLC7528CFN	296-3024-5-ND	8-Bit, 0.1µs, 5-15V Dual Parallel Multiplying DAC	20-PLCC	3.31	2.65	2.06
TLC7528CN	296-1871-5-ND	8-Bit, 0.1µs, 5-15V Dual Parallel Multiplying DAC	20-Dip	3.31	2.65	2.06
TLC7528EDW	296-3025-5-ND	8-Bit, 0.1µs, 5-15V Dual Parallel Multiplying DAC	20-SOIC	3.85	3.08	2.40
TLC7528EN	296-3026-5-ND	8-Bit, 0.1µs, 5-15V Dual Parallel Multiplying DAC	20-Dip	3.96	3.17	2.47
TLC7528IDW	296-3027-5-ND	8-Bit, 0.1µs, 5-15V Dual Parallel Multiplying DAC	20-SOIC	3.53	2.83	2.20
TLC7528IFN	296-3028-5-ND	8-Bit, 0.1µs, 5-15V Dual Parallel Multiplying DAC	20-PLCC	3.53	2.83	2.20
TLC7528IN	296-3029-5-ND	8-Bit, 0.1µs, 5-15V Dual Parallel Multiplying DAC	20-Dip	3.53	2.83	2.20
TLC7528IPW	296-3030-5-ND	8-Bit, 0.1µs, 5-15V Dual Parallel Multiplying DAC	20-TSSOP	3.53	2.83	2.20
TLC7628CDW	296-3031-5-ND	8-Bit, 0.1µs, 11-14V Dual Parallel Multiplying DAC	20-SOIC	3.53	2.83	2.20
TLC7628CN	296-3032-5-ND	8-Bit, 0.1µs, 11-14V Dual Parallel Multiplying DAC	20-Dip	3.22	2.58	2.01
TLV320DAC23PW	296-11658-5-ND	8 to 96KHz Stereo DSP DAC	28-TSSOP	4.50	3.60	2.80
TLV5604CD	296-2297-5-ND	10-Bit, 3µs, 2.7-5.5V Quad Serial DAC	16-SOIC	7.40	5.92	5.00
TLV5604CPW	296-3033-5-ND	10-Bit, 3µs, 2.7-5.5V Quad Serial DAC	16-TSSOP	7.40	5.92	5.00
TLV5604ID	296-1916-5-ND	10-Bit, 3µs, 2.7-5.5V Quad Parallel DAC	16-SOIC	7.90	6.32	5.34
TLV5604IPW	296-1917-5-ND	10-Bit, 3µs, 2.7-5.5V Quad Parallel DAC	16-TSSOP	7.90	6.32	5.34
TLV5606CD	296-2298-5-ND	10-Bit, 3 or 9µs, 2.7-5.5V Single Serial DAC	8-SOIC	2.93	2.34	1.82
TLV5606ID	296-3034-5-ND	10-Bit, 3 or 9µs, 2.7-5.5V Single Serial DAC	8-SOIC	3.15	2.52	1.96
TLV5606IDGK	296-3035-5-ND	10-Bit, 3 or 9µs, 2.7-5.5V Single Serial DAC	8-MSOP	3.15	2.52	1.96
TLV5608IDW	296-3036-5-ND	10-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-SOIC	9.80	7.84	6.62
TLV5608IPW	296-3037-5-ND	10-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-TSSOP	9.80	7.84	6.62

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TEXAS INSTRUMENTS **DATA CONVERSION *(Continued)***

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV5610IDW	296-3038-5-ND	12-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-SOIC	14.16	12.75	11.31
TLV5610IPW	296-3039-5-ND	12-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-TSSOP	14.16	12.75	11.31
TLV5610IYE	296-17097-ND	12-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-WCSP	14.16	12.75	11.31
TLV5613CDW	296-2299-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-SOIC	5.20	4.16	3.51
TLV5613CPW	296-1918-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-TSSOP	5.20	4.16	3.51
TLV5613IDW	296-1919-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-SOIC	5.60	4.48	3.78
TLV5613IPW	296-1920-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-TSSOP	5.60	4.48	3.78
TLV5614CD	296-2300-5-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	16-SOIC	12.41	11.18	9.91
TLV5614CPW	296-3040-5-ND	12-Bit, 3µs, 2.7-5.5V Quad Serial DAC	16-TSSOP	12.41	11.18	9.91
TLV5614ID	296-1921-5-ND	12-Bit, 3µs 2.7-5.5V Quad Serial DAC	16-SOIC	13.33	12.00	10.64
TLV5614IPW	296-1922-5-ND	12-Bit, 3µs, 2.7-5.5V Quad Serial DAC	16-TSSOP	13.33	12.00	10.64
TLV5616CD	296-2301-5-ND	12-Bit, 3µs, 2.7-5.5V Quad Serial DAC	8-SOIC	5.20	4.16	3.51
TLV5616CDR	296-2301-1-ND	12-Bit, 3µs, 2.7-5.5V Quad Serial DAC	8-SOIC	5.20	4.16	3.51
TLV5616CDR	296-2301-2-ND	12-Bit, 3µs, 2.7-5.5V Quad Serial DAC	8-SOIC	8060.00/2,500		
TLV5616CP	296-3041-5-ND	12-Bit, 3µs, 2.7-5.5V Quad Serial DAC	8-Dip	5.20	4.16	3.51
TLV5616ID	296-1923-5-ND	12-Bit, 3µs, 2.7-5.5V Quad Serial DAC	8-SOIC	5.60	4.48	3.78
TLV5616IDR	296-1923-1-ND	12-Bit, 3µs, 2.7-5.5V Quad Serial DAC	8-SOIC	5.60	4.48	3.78
TLV5616IDGK	296-3042-5-ND	12-Bit, 3µs, 2.7-5.5V Quad Serial DAC	8-MSOP	5.60	4.48	3.78
TLV5616IDR	296-1923-2-ND	12-Bit, 3µs, 2.7-5.5V Quad Serial DAC	8-SOIC	8680.00/2,500		
TLV5617ACD	296-2302-5-ND	10-Bit, 2.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	5.06	4.05	3.15
TLV5617AID	296-3043-5-ND	10-Bit, 2.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	5.40	4.32	3.36
TLV5618ACD	296-2303-5-ND	12-Bit, 2.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	8.10	6.48	5.47
TLV5618AID	296-3044-5-ND	12-Bit, 2.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	8.70	6.96	5.88
TLV5618AIP	296-10735-5-ND	12-Bit, 2.5µs, 2.7-5.5V Dual Serial DAC	8-Dip	8.70	6.96	5.88
TLV5618AQD	296-2304-5-ND	12-Bit, 2.5µs 2.7-5.5V Dual Serial DAC	8-SOIC	8.33	7.50	6.65
TLV5619IDW	296-3045-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-SOIC	5.60	4.48	3.78
TLV5619IPW	296-2305-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-TSSOP	5.60	4.48	3.78
TLV5619QDWREP	296-18148-1-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-SOIC	13.18	11.87	10.53
TLV5619QDWREP	296-18148-2-ND	12-Bit, 1µs, 2.7V-5.5V Single Parallel DAC	20-SOIC	19538.00/2,000		
TLV5620CD	296-3047-5-ND	8-Bit, 10µs, 2.7-5.25V Quad Serial DAC	14-SOIC	2.25	1.80	1.40
TLV5620CN	296-2306-5-ND	8-Bit, 10µs, 2.7-5.25V Quad Serial DAC	14-Dip	2.59	2.07	1.61
TLV5620ID	296-3048-5-ND	8-Bit, 10µs, 2.7-5.25V Quad Serial DAC	14-SOIC	2.36	1.89	1.47
TLV5620IN	296-3049-5-ND	8-Bit, 10µs, 2.7-5.25V Quad Serial DAC	14-Dip	2.81	2.25	1.75
TLV5621ID	296-2307-5-ND	8-Bit, 10µs, 2.7-5.25V Quad Serial DAC	14-SOIC	3.71	2.97	2.31
TLV5623CD	296-2308-5-ND	8-Bit, 3µs, 2.7-5.5V Single Serial DAC	8-SOIC	2.48	1.98	1.49
TLV5623CDGK	296-3051-5-ND	8-Bit, 3µs, 2.7-5.5V Single Serial DAC	8-MSOP	2.48	1.98	1.49
TLV5623ID	296-3052-5-ND	8-Bit, 3µs, 2.7-5.5V Single Serial DAC	8-SOIC	2.48	1.98	1.54
TLV5623IDGK	296-3053-5-ND	8-Bit, 3µs, 2.7-5.5V Single Serial DAC	8-MSOP	2.48	1.98	1.54
TLV5624CD	296-2309-5-ND	8-Bit, 1.0-3.5µs, 2.7-5.5V Single Serial DAC	8-SOIC	3.60	2.88	2.24
TLV5624ID	296-3054-5-ND	8-Bit, 1.0-3.5µs, 2.7-5.5V Single Serial DAC	8-SOIC	3.83	3.06	2.38
TLV5624IDGK	296-3055-5-ND	8-Bit, 1.0-3.5µs, 2.7-5.5V Single Serial DAC	8-MSOP	3.83	3.06	2.38
TLV5625CD	296-2310-5-ND	8-Bit, 3 or 10µs, 2.7-5.5V Dual Serial DAC	8-SOIC	3.83	3.06	2.38
TLV5625ID	296-3056-5-ND	8-Bit, 3 or 10µs, 2.7-5.5V Dual Serial DAC	8-SOIC	4.05	3.24	2.52
TLV5626CD	296-2311-5-ND	8-Bit, 1µs, 2.7-5.5V Dual Serial DAC	8-SOIC	4.28	3.42	2.66
TLV5626ID	296-3057-5-ND	8-Bit, 1µs, 2.7-5.5V Dual Serial DAC	8-SOIC	4.50	3.60	2.80
TLV5627CD	296-2312-5-ND	8-Bit, 3µs, 2.7-5.5V Quad Serial DAC	16-SOIC	4.61	3.69	2.87
TLV5627ID	296-3058-5-ND	8-Bit, 3µs, 2.7-5.5V Quad Serial DAC	16-SOIC	4.95	3.96	3.08
TLV5627IPW	296-3059-5-ND	8-Bit, 3µs, 2.7-5.5V Quad Serial DAC	16-TSSOP	4.95	3.96	3.08
TLV5628CDW	296-3060-5-ND	8-Bit, 10µs, 2.7-5.5V Octal Serial DAC	16-SOIC	4.95	3.96	3.08
TLV5628CN	296-2313-5-ND	8-Bit, 10µs, 2.7-5.5V Octal Serial DAC	16-Dip	5.18	4.14	3.22
TLV5628IDW	296-3061-5-ND	8-Bit, 10µs, 2.7-5.5V Octal Serial DAC	16-SOIC	5.29	4.23	3.29
TLV5628IN	296-3062-5-ND	8-Bit, 10µs, 2.7-5.5V Octal Serial DAC	16-Dip	5.00	4.00	3.38
TLV5629IDW	296-3063-5-ND	8-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-SOIC	6.30	5.04	4.26
TLV5629IPW	296-3064-5-ND	8-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-TSSOP	6.30	5.04	4.26
TLV5630IDW	296-3065-5-ND	12-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-SOIC	14.74	13.28	11.78
TLV5630IPW	296-3066-5-ND	12-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-TSSOP	14.74	13.28	11.78
TLV5631IDW	296-3067-5-ND	10-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-SOIC	9.33	8.40	7.45
TLV5631IPW	296-3068-5-ND	10-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-TSSOP	9.33	8.40	7.45
TLV5632IDW	296-3069-5-ND	8-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-SOIC	6.70	5.36	4.53
TLV5632IPW	296-3070-5-ND	8-Bit, 1/3µs, 2.7-5.5V Octal Serial DAC	20-TSSOP	6.70	5.36	4.53
TLV5633CDW	296-2314-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-SOIC	9.40	7.52	6.35
TLV5633IDW	296-3071-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-SOIC	8.41	7.58	6.72
TLV5633IPW	296-3072-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-TSSOP	8.41	7.58	6.72
TLV5636CD	296-2315-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	8-SOIC	7.30	5.84	4.93
TLV5636ID	296-3073-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	8-SOIC	7.80	6.24	5.27
TLV5636IDGK	296-3074-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	8-MSOP	7.80	6.24	5.27
TLV5637CD	296-2316-5-ND	10-Bit, 1µs, 2.7-5.5V Dual Serial DAC	8-SOIC	6.40	5.12	4.32
TLV5637ID	296-3075-5-ND	10-Bit, 1µs, 2.7-5.5V Dual Serial DAC	8-SOIC	6.80	5.44	4.59
TLV5638CD	296-2317-5-ND	12-Bit, 1 or 3.5µs, 2.7-5.5V Dual Serial DAC	8-SOIC	7.50	6.00	5.07
TLV5638ID	296-3076-5-ND	12-Bit, 1 or 3.5µs, 2.7-5.5V Dual Serial DAC	8-SOIC	8.00	6.40	5.40
TLV5638MDREP	296-18149-1-ND	12-Bit, 1 or 3.5µs, 2.7V to 5.5V Dual Serial DAC	8-SOIC	15.30	14.28	13.26
TLV5638MDREP	296-18149-2-ND	12-Bit, 1 or 3.5µs, 2.7V to 5.5V Dual Serial DAC	8-SOIC	30982.50/2,500		
TLV5638QD	296-3077-5-ND	12-Bit, 1 or 3.5µs, 2.7-5.5V Dual Serial DAC	8-SOIC	9.20	7.36	6.21
TLV5639CDW	296-2318-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-SOIC	6.90	5.52	4.66
TLV5639IDW	296-3078-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-SOIC	7.40	5.92	5.00
TLV5639IPW	296-3079-5-ND	12-Bit, 1µs, 2.7-5.5V Single Parallel DAC	20-TSSOP	7.40	5.92	5.00

Audio Digital-to-Analog Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DF1704E	DF1704E-ND	Stereo, 24-Bit, Digital Interpolation Filter for PCM1704	28-SSOP	15.90	14.84	13.78
DSD1702E	296-13072-5-ND	Enhanced Multiformat, Delta-Sigma, Audio DAC	20-QSOP	4.39	3.51	2.73
DSD1791DB	296-15082-5-ND	24-Bit, 192KHz Sampling, Audio Stereo DAC	28-SSOP	6.30	5.04	4.26
DSD1792DB	296-15310-5-ND	24-Bit, 192KHz Sampling, Audio Stereo DAC	28-SSOP	20.48	19.11	17.75
DSD1793DB	296-15083-5-ND	24-Bit, 192KHz Sampling, Audio Stereo DAC	28-SSOP	6.30	5.04	4.26
DSD1794DB	296-15311-5-ND	24-Bit, 192KHz Sampling, Audio Stereo DAC	28-SSOP	20.48	19.11	17.75
DSD1796DB	296-18431-ND	24-Bit, 192KHz Sampling, Audio Stereo DAC	28-SSOP	10.83	9.75	8.65
PCM56P	PCM56P-ND	Serial In 16-Bit, Mono DAC, -80dB	16-Dip	10.41	9.38	8.32
PCM56U	PCM56U-ND	16-Bit, Audio DAC	16-SOIC	8.66	7.80	6.92
PCM69AP	PCM69AP-ND	Dual 18-Bit, BiCMOS Audio DAC	16-Dip	16.73	15.61	14.50
PCM69AP-J	PCM69AP-J-ND	Dual 18-Bit, BiCMOS Audio DAC	16-Dip	18.98	17.71	16.45
PCM69AP-K	PCM69AP-K-ND	Dual 18-Bit, BiCMOS Audio DAC	16-Dip	26.78	24.99	23.21
PCM69AU	PCM69AU-ND	Dual 18-Bit, BiCMOS Audio DAC	20-SOIC	16.73	15.61	14.50
PCM69AU-J	PCM69AU-J-ND	Dual 18-Bit, BiCMOS Audio DAC	20-SOIC	18.98	17.71	16.45
PCM69AU-K	PCM69AU-K-ND	Dual 18-Bit, BiCMOS Audio DAC	20-SOIC	26.78	24.99	23.21
PCM1600Y	PCM1600Y-ND	24-Bit, 96KHz, 6-Channel DAC	48-LQFP	8.30	6.64	5.61
PCM1602KY	PCM1602KY-ND	24-Bit, 192KHz, 6-Channel DAC	48-LQFP	7.10	5.68	4.80
PCM1602Y	PCM1602Y-ND	24-Bit, 192KHz, 6-Channel DAC	48-LQFP	6.50	5.20	4.39
PCM1604Y	PCM1604Y-ND	24-Bit, 192KHz, 6-Channel DAC	48-LQFP	9.20	7.36	6.21
PCM1605Y	PCM1605Y-ND	24-Bit, 192KHz, 6-Channel DAC	48-MQFP	9.26	7.41	6.26
PCM1608KY	PCM1608KY-ND	24-Bit, 192KHz, 8-Channel DAC	48-LQFP	9.50	7.60	6.42
PCM1608Y	PCM1608Y-ND	24-Bit, 192KHz, 8-Channel DAC	48-LQFP	8.60	6.88	5.81
PCM1680DBQ	296-18004-5-ND	24-Bit, 192KHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	28-SSOP	3.38	2.70	2.10
PCM1702P	PCM1702P-ND	BiCMOS Advanced Sign Magnitude 20-Bit DAC -88dB THD	16-Dip	18.60	17.36	16.12
PCM1702P-J	PCM1702P-J-ND	20-Bit, CMOS Advanced Sign Magnitude Audio DAC	16-Dip	21.38	19.95	18.53
PCM1702P-K	PCM1702P-K-ND	20-Bit, CMOS Advanced Sign Magnitude Audio DAC	16-Dip	28.95	27.02	25.09
PCM1702U-J	PCM1702U-J-ND	20-Bit, BiCMOS Advanced Sign Magnitude	20-SOIC	21.38	19.95	18.53
PCM1702U-K	PCM1702U-K-ND	BiCMOS Advanced Sign Magnitude 20-Bit, D/A -96dB THD	20-SOP	28.95	27.02	25.09
PCM1704U	PCM1704U-ND	24-Bit, 96KHz Audio DAC, 0.0030%THD	20-SOIC	20.40	19.04	17.68
PCM1704U-J	PCM1704U-J-ND	24-Bit, 96KHz Audio DAC, 0.0025%THD	20-SOIC	24.60	22.96	21.32
PCM1704U-K	PCM1704U-K-ND	24-Bit, 96KHz Audio DAC, 0.0015%THD	20-SOIC	36.15	33.74	31.33
PCM1710U	PCM1710U-ND	Dual Voltage Output CMOS Delta-Sigma DAC with On-Chip Digital Filter	28-SOIC	8.40	6.72	5.67
PCM1716E	PCM1716E-ND	24-Bit, Stereo 96KHz Sampling DAC	28-SSOP	5.40	4.32	3.36
PCM1717E	PCM1717E-ND	Stereo Audio DAC	20-SSOP	6.70	5.36	4.53
PCM1718E	PCM1718E-ND	Stereo Audio DAC, -90dB THD	20-SSOP	6.70	5.36	4.53
PCM1719E	PCM1719E-ND	Stereo Audio DAC, -88dB THD	28-SSOP	8.92	7.14	6.03
PCM1720E	PCM1720E-ND	Stereo Audio DAC, MPEG2/AC-3 Compatible	20-SSOP	4.39	3.51	2.73
PCM1723E	PCM1723E-ND	Stereo DAC w/Programmable PLL	24-SSOP	5.29	4.23	3.29
PCM1725U	PCM1725U-ND	16-Bit, Stereo 96KHz Sampling DAC	14-SOIC	2.93	2.34	1.82
PCM1727E	PCM1727E-ND	Stereo DAC with Prog. Dual PLL	24-SSOP	6.30	5.04	4.26
PCM1728E	PCM1728E-ND	24-Bit, 96KHz Stereo Audio DAC	28-SSOP	6.30	5.04	4.26
PCM1730E	PCM1730E-ND	24-Bit, 192KHz Stereo Audio DAC	28-SSOP	8.33	7.50	6.65
PCM1733U	PCM1733U-ND	18-Bit, Low Cost Stereo DAC	14-SOIC	3.04	2.43	1.89
PCM1737E	PCM1737E-ND	192KHz Stereo Audio DAC	28-SSOP	7.40	5.92	5.00
PCM1738E	PCM1738E-ND	24-Bit, 192KHz Stereo Audio DAC	28-SSOP	8.75	7.88	6.99
PCM1739E	PCM1739E-ND	192KHz Stereo Audio DAC	28-SSOP	7.40	5.92	5.00
PCM1740E	PCM1740E-ND	PLL DAC with VCXO	24-SSOP	6.30	5.04	4.26
PCM1741E	PCM1741E-ND	24-Bit, 96KHz Audio DAC	16-SSOP	3.49	2.79	2.17
PCM1742E	PCM1742E-ND	24-Bit, 192KHz Audio DAC	16-SSOP	3.71	2.97	2.31
PCM1742KE	PCM1742KE-ND	24-Bit, 192KHz Audio DAC	16-SSOP	4.05	3.24	2.52
PCM1744U	PCM1744U-ND	24-Bit, Low Cost Stereo DAC	14-SOIC	3.04	2.43	1.89
PCM1748E	PCM1748E-ND	24-Bit, Stereo Audio DAC	16-SSOP	2.70	2.16	1.68
PCM1748E/2K	PCM1748ETR-ND	24-Bit, Stereo Audio DAC	16-SSOP	3060.00/2,000		
PCM1748KE	PCM1748KE-ND	24-Bit, Stereo Audio DAC	16-SSOP	2.93	2.34	1.82
PCM1748KE/2K	PCM1748KETR-ND	24-Bit, Stereo Audio DAC	16-SSOP	3316.00/2,000		
PCM1750U	PCM1750U-ND	Dual 18-Bit, Audio DAC	28-SOIC	35.78	33.39	31.01
PCM1753DBQ	296-16651-5-ND	24-Bit, 192KHz Audio DAC	16-SSOP	2.36	1.89	1.47
PCM1754DBQ	296-16652-5-ND	24-Bit, 192KHz Audio DAC	16-SSOP	2.36	1.89	1.47
PCM1755DBQ	296-16653-5-ND	24-Bit, 192KHz Audio DAC	16-SSOP	2.36	1.89	1.47
PCM1770PW	296-13470-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	16-TSSOP	3.38	2.70	2.10
PCM1770RGA	296-13471-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	20-VQFN	3.71	2.97	2.31

(Continued)

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TEXAS INSTRUMENTS DATA CONVERSION *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCM1771PW	296-13472-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	16-TSSOP	3.38	2.70	2.10
PCM1771RGA	296-13473-ND	Low Voltage, Low Power, Stereo Audio DAC with Headphone Amplifier	20-VQFN	3.71	2.97	2.31
PCM1772PW	296-13474-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	16-TSSOP	3.38	2.70	2.10
PCM1772RGA	296-13475-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	20-VQFN	3.71	2.97	2.31
PCM1773PW	296-13476-5-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	16-TSSOP	3.38	2.70	2.10
PCM1773RGA	296-13477-ND	Low Voltage, Low Power, Stereo Audio DAC with Lineout Amplifier	20-VQFN	3.71	2.97	2.31
PCM1780DBQ	296-17959-5-ND	24-Bit, 192KHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	16-SSOP	2.25	1.80	1.40
PCM1781DBQ	296-17960-5-ND	24-Bit, 192KHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	16-SSOP	2.48	1.98	1.54
PCM1782DBQ	296-17961-5-ND	24-Bit, 192KHz, Enhanced Multilevel, Delta-Sigma, Audio DAC	16-SSOP	2.25	1.80	1.40
PCM1791ADB	296-15091-5-ND	24-Bit, Stereo Audio DAC	28-SSOP	6.30	5.04	4.26
PCM1792DB	296-15313-5-ND	24-Bit, Stereo Audio DAC	28-SSOP	20.48	19.11	17.75
PCM1793DB	296-15092-5-ND	24-Bit, Stereo Audio DAC	28-SSOP	6.30	5.04	4.26
PCM1794DB	296-15314-5-ND	24-Bit, Stereo Audio DAC	28-SSOP	20.48	19.11	17.75
PCM1796DB	296-18510-5-ND	24-Bit, 192KHz, Advanced Segment, Audio Stereo DAC	28-SSOP	10.83	9.75	8.65
PCM1798DB	296-18511-5-ND	24-Bit, 192KHz, Advanced Segment, Audio Stereo DAC	28-SSOP	10.83	9.75	8.65
PCM2702	PCM2702E-ND	16-Bit, Stereo Audio DAC	28-SSOP	9.66	8.70	7.72
PCM2704DB	296-15273-5-ND	Stereo Audio DAC with USB Interface	28-SSOP	5.90	4.72	3.99
PCM2705DB	296-15274-5-ND	Stereo Audio DAC with USB and S/PDIF Output	28-SSOP	5.90	4.72	3.99
PCM2706PJT	296-15275-5-ND	Stereo Audio DAC with USB and S/PDIF Output	32-TQFP	6.80	5.44	4.59
PCM2707PJT	296-15276-5-ND	Stereo Audio DAC with USB and S/PDIF Output	32-TQFP	6.80	5.44	4.59

Voltage-to-Current Converter

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
XTR110AG	296-13640-5-ND	Precision Voltage-to-Current Converter/Transmitter	16-Dip	58.14	54.27	50.39

Voltage-to-Frequency Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
VFC32KP	VFC32KP-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	9.60	7.68	6.48
VFC32KU	VFC32KU-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-SOIC	9.60	7.68	6.48
VFC110AP	VFC110AP-ND	High Frequency Voltage-to-Frequency Converter	14-Dip	18.98	17.71	16.45
VFC320BP	296-12616-5-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	19.80	18.48	17.16
VFC320CP	VFC320CP-ND	Voltage-to-Frequency and Frequency-to-Voltage Converter	14-Dip	21.75	20.30	18.85

TEXAS INSTRUMENTS DATA TRANSMISSION

4-20mA Transmitters/Receivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
RCV420JP	RCV420JP-ND	4-20mA Prec. Current Loop Receiver	16-Dip	7.10	5.68	4.80
RCV420KP	RCV420KP-ND	4-20mA Prec. Current Loop Receiver	16-Dip	10.08	9.08	8.05
XTR101AP	XTR101AP-ND	Precision, Low Drift, 4-20mA 2-Wire Transmitter	14-Dip	14.49	13.05	11.58
XTR101AU	XTR101AU-ND	Precision, Low Drift, 4-20mA 2-Wire Transmitter	16-SOIC	14.49	13.05	11.58
XTR105P	XTR105P-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-Dip	9.33	8.40	7.45
XTR105PA	XTR105PA-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-Dip	8.00	6.40	5.40
XTR105U	XTR105U-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-SOIC	9.33	8.40	7.45
XTR105UA	XTR105UA-ND	4-20mA Current Transmitter with Sensor Excitation and Linearization	14-SOIC	8.00	6.40	5.40
XTR106P	XTR106P-ND	4-20mA Current Transmitter	14-Dip	9.33	8.40	7.45
XTR106PA	XTR106PA-ND	4-20mA Current Transmitter	14-Dip	8.00	6.40	5.40
XTR106U	XTR106U-ND	4-20mA Current Transmitter	14-SOIC	9.33	8.40	7.45
XTR106UA	XTR106UA-ND	4-20mA Current Transmitter	14-SOIC	8.00	6.40	5.40
XTR108EA/2K5	XTR108EACT-ND	4-20mA 2-Wire Transmitter	24-SSOP	6.70	5.36	4.53
XTR108EA/2K5	XTR108EATR-ND	4-20mA 2-Wire Transmitter	24-SSOP	10385.00/2,500		
XTR110KP	XTR110KP-ND	4-20mA Precision, Voltage-to-Current Converter/Transmitter	16-Dip	11.83	10.65	9.45
XTR110KU	XTR110KU-ND	4-20mA Precision, Voltage-to-Current Converter/Transmitter	16-SOIC	11.83	10.65	9.45
XTR112U	XTR112U-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	9.33	8.40	7.45
XTR112UA	XTR112UA-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	8.00	6.40	5.40
XTR114U	XTR114U-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	9.33	8.40	7.45
XTR114UA	XTR114UA-ND	4-20mA Current Transmitter with Sensor Excitation	14-SOIC	8.00	6.40	5.40
XTR115U	XTR115U-ND	4-20mA Current Loop Transmitter	8-SOIC	2.93	2.34	1.82
XTR115UA	XTR115UA-ND	4-20mA Current Loop Transmitter	8-SOIC	2.36	1.89	1.47
XTR116U	XTR116U-ND	4-20mA Current Loop Transmitter	8-SOIC	2.93	2.34	1.82
XTR116UA	XTR116UA-ND	4-20mA Current Loop Transmitter	8-SOIC	2.36	1.89	1.47
XTR117AIDGKT	296-18744-1-ND	4-20mA Current Loop Transmitter	8-MSOP	2.48	1.98	1.49
XTR117AIDGKT	296-18744-2-ND	4-20mA Current Loop Transmitter	8-MSOP	346.50/250		
XTR117AIDRBT	296-19487-1-ND	4-20mA Current Loop Transmitter ***NEW!***	8-DFN	2.48	1.98	1.49
XTR117AIDRBT	296-19487-2-ND	4-20mA Current Loop Transmitter ***NEW!***	8-DFN	346.50/250		
XTR300AIRGWT	296-19535-1-ND	Industrial Analog Current/Voltage Output Driver ***NEW!***	20-QFN	5.40	4.32	—
XTR300AIRGWT	296-19535-2-ND	Industrial Analog Current/Voltage Output Driver ***NEW!***	20-QFN	182.25/50		
XTR300EVM	296-19618-ND	Evaluation Module for XTR300 ***NEW!***	—	62.78	—	—

ADSL Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TCM1050D	296-9980-5-ND	Dual Transient Voltage Suppressor	8-SOIC	2.23	1.78	1.34
THS6002CDWP	296-1765-5-ND	Dual Differential Line Driver/Receiver	20-HSOP	8.83	7.95	7.05
THS6002IDWP	296-1766-5-ND	Dual Differential Line Driver/Receiver	20-HSOP	8.83	7.95	7.05
THS6007IPWP	296-10060-5-ND	Dual Diff. Line Driver LP Receiver	28-HTSSOP	9.16	8.25	7.32
THS6012CDWP	296-2372-5-ND	Dual Differential ADSL Driver	20-SOIC	7.12	5.70	4.81
THS6012IDWP	296-1767-5-ND	Dual Differential Line Driver	20-HSOP	7.32	5.86	4.95
THS6012IGQER	296-10062-1-ND	Dual Differential Line Driver	80-VFBGA	7.70	6.16	5.20
THS6012IGQER	296-10062-2-ND	Dual Differential Line Driver	80-VFBGA	11935.00/2,500		
THS6022CPWP	296-1768-5-ND	Dual Differential Line Driver	14-TSSOP	5.22	4.18	3.53
THS6022IPWP	296-1769-5-ND	Dual Differential Line Driver	14-TSSOP	5.42	4.34	3.66
THS6032CDWP	296-2373-5-ND	Low Power ADSL Line Driver	20-SOIC	9.10	7.28	6.15
THS6032IDWP	296-10065-5-ND	Low Power ADSL Line Driver	20-HSOP	9.10	7.28	6.15
THS6032IGQER	296-10066-1-ND	Low Power ADSL Line Driver	80-VFBGA	9.10	7.28	6.15
THS6032IGQER	296-10066-2-ND	Low Power ADSL Line Driver	80-VFBGA	14105.00/2,500		
THS6032IVFP	296-12689-ND	Low Power ADSL Line Driver	32-HLQFP	9.10	7.28	6.15
THS6042ID	296-12315-5-ND	High Speed ADSL CPE Line Driver	8-SOIC	5.22	4.18	3.53
THS6042IDDA	296-12667-5-ND	High Speed ADSL CPE Line Driver	8-SOIC	5.22	4.18	3.53
THS6043ID	296-12316-5-ND	High Speed CPE Line Driver w/SD	14-SOIC	5.32	4.26	3.60
THS6043IPWP	296-12317-5-ND	HS CPE Line Driver with SD	14-TSSOP	5.70	4.56	3.85
THS6052ID	296-11984-5-ND	Dual HS ADSL CPE Line Driver	8-SOIC	6.46	5.17	4.37
THS6052IDDA	296-12668-5-ND	Dual HS ADSL CPE Line Driver	8-SOIC	6.46	5.17	4.37
THS6052IDR	296-11984-1-ND	Dual HS ADSL Line Driver	8-SOIC	6.46	5.17	4.37
THS6052IDR	296-11984-2-ND	Dual HS ADSL Line Driver	8-SOIC	10012.50/2,500		
THS6053ID	296-12318-5-ND	Dual HS ADSL CPE Line Driver w/SD	14-SOIC	6.46	5.17	4.37
THS6053IPWP	296-11985-5-ND	Dual HS ADSL Line Driver with SD	14-TSSOP	6.46	5.17	4.37
THS6053IPWPR	296-11985-1-ND	Dual HS ADSL Line Driver with SD	14-TSSOP	6.46	5.17	4.37
THS6053IPWPR	296-11985-2-ND	Dual HS ADSL Line Driver with SD	14-TSSOP	8076.00/2,000		
THS6062CD	296-2374-5-ND	Dual ADSL Differential Receiver	8-SOIC	5.29	4.23	3.29
THS6072CD	296-2375-5-ND	Low Power ADSL Differential Receiver	8-SOIC	5.02	4.02	3.13
THS6092ID	296-12319-5-ND	Dual HS ADSL SPE Line Driver	8-SOIC	4.59	3.68	2.86
THS6092IDDAR	296-12669-1-ND	Dual HS ADSL SPE Line Driver	8-SOIC	4.59	3.68	2.86
THS6092IDDAR	296-12669-2-ND	Dual HS ADSL SPE Line Driver	8-SOIC	6425.00/2,500		
THS6093ID	296-11986-5-ND	Dual HS ADSL CPE Line Driver w/SD	14-SOIC	4.59	3.68	2.86
THS6093IPWP	296-12320-5-ND	Dual HS ADSL CPE Line Driver with Shutdown	14-TSSOP	4.59	3.68	2.86
THS6132VFP	296-13744-5-ND	High Efficiency Class-G ADSL Line Driver	32-HLQFP	8.30	6.64	5.61
THS6182D	296-14977-5-ND	LP Dissipation ADSL Line Driver	16-SOIC	5.60	4.48	3.78
THS6182DW	296-14978-5-ND	LP Dissipation ADSL Line Driver	20-SOIC	5.60	4.48	3.78
THS6182DWEVM	296-18856-ND	Evaluation Module for THS6182DW	—	126.84	—	—
THS6182RHFR	296-15338-1-ND	LP Dissipation ADSL Line Driver	24-QFN	5.60	4.48	3.78
THS6182RHFR	296-15338-2-ND	LP Dissipation ADSL Line Driver	24-QFN	10416.00/3,000		
THS6182RHFEVM	296-18857-ND	Evaluation Module for THS6182RHF	—	126.84	—	—
THS6184RHFT	296-17862-1-ND	Dual Port, Low Power Differential XDSL Line Driver Amp	24-QFN	7.88	6.31	5.32
THS6184RHFT	296-17862-2-ND	Dual Port, Low Power Differential XDSL Line Driver Amp	24-QFN	4925.00/1,000		

Ethernet

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DLKPC192SGNT	296-13858-ND	10Gbps Ethernet Lan Physical Coding Sublayer (PCS)	289-PBGA	161.60	150.83	140.05
TLK1002ARGET	296-19420-1-ND	Dual Signal Conditioning Transceiver ***NEW!***	24-QFN	11.00	9.90	8.78
TLK1002ARGET	296-19420-2-ND	Dual Signal Conditioning Transceiver ***NEW!***	24-QFN	2103.75/250		
TLK1201AIRCP	296-18299-ND	Gigabit Ethernet Transceiver	64-HVQFP	9.70	7.76	6.55
TLK1201ARCP	296-16797-ND	Gigabit Ethernet Transceiver	64-HVQFP	8.10	6.48	5.47
TLK1201IRCP	296-13362-ND	Gigabit Ethernet Transceiver	64-HVQFP	9.78	7.83	6.61
TLK1501IRCP	296-10484-ND	0.6-1.5Gbps Transceiver	64-HVQFP	13.99	12.60	11.18
TLK1521IPAP	296-15862-ND	0.5-1.3Gbps Serializer/ Deserializer	64-HTQFP	15.75	14.70	13.65
TLK2201AJRGQE	296-18904-1-ND	1.0-1.6Gbps Ethernet Transceiver	80-BGA	8.50	6.80	5.74
TLK2201AJRGQE	296-18904-2-ND	1.0-1.6Gbps Etherent Transceiver	80-BGA	918.08/160		
TLK2201ARCP	296-15238-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	8.10	6.48	5.47
TLK2201BIRCP	296-18300-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	9.30	7.44	6.28
TLK2201BRCP	296-16728-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	7.70	6.16	5.20
TLK2201IRCP	296-10485-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	9.78	7.83	6.61
TLK2201JRGQE	296-10486-ND	1.0-1.6Gbps Ethernet Transceiver	80-BGA	8.16	6.53	5.51
TLK2201RCP	296-10487-ND	1.0-1.6Gbps Ethernet Transceiver	64-HVQFP	8.16	6.53	5.51
TLK2208AGPV	296-15328-5-ND	1.0-1.3Gbps 8-Port Gigabit Ethernet Transceiver	289-BGA	47.25	44.10	40.95
TLK2208BGPV	296-15724-ND	1.0-1.3Gbps 8-Port Gigabit Ethernet Transceiver	289-BGA	47.25	44.10	40.95
TLK2226GEA	296-19514-ND	6-Port Gigabit Ethernet Transceiver ***NEW!***	196-BGA	29.48	27.51	25.55
TLK2501IRCP	296-10488-ND	1.6-2.5Gbps Transceiver	64-HVQFP	18.90	17.64	16.38
TLK2521IPAP	296-15315-ND	1.0-2.5Gbps Transceiver	64-HTQFP	18.90	17.64	16.38
TLK2701IRCP	296-10489-ND	1.6-2.7Gbps Transceiver	64-HVQFP	18.90	17.64	16.38
TLK2711IRCP	296-12215-ND	1.6-2.7Gbps Transceiver	64-HVQFP	18.90	17.64	16.38
TLK2711JRGQE	296-12216-ND	1.6-2.7Gbps Transceiver	80-BGA	18.90	17.64	16.38
TLK3101IRCP	296-10490-ND	2.5-3.125Gbps Transceiver	64-HVQFP	25.28	23.59	21.91
TLK3104SAGNT	296-12040-5-ND	10Gbps Ethernet Backplane Xcvr.	289-PBGA	103.95	97.02	90.09
TLK3104SCGNT	296-13704-ND	3.125Gbps Quad Serial Backplane Transceiver	289-PBGA	189.00	176.40	163.80
TLK3114SAGNT	296-12747-ND	Quad High Speed Serial Transceiver	289-PBGA	103.95	97.02	90.09
TLK3114SCGNT	296-15738-ND	Quad High Speed Serial Transceiver	289-PBGA	86.63	80.85	75.08
TLK4015IGPV	296-14198-5-ND	0.6-1.5Gbps Quad Transceiver	289-PBGA	44.10	41.16	38.22
TLK4120IGPV	296-16729-ND	0.5-1.3Gbps Quad Transceiver	289-BGA	36.00	33.60	31.20
TLK4211EARGTT	296-19286-1-ND	4.25Gbps Cable and PC Board Equalizer	16-QFN	9.08	8.18	7.25
TLK4211EARGTT	296-19286-2-ND	4.25Gbps Cable and PC Board Equalizer	16-QFN	1737.25/250		
TLK4250IGPV	296-17047-ND	1.0-2.5Gbps Quad Transceiver	289-BGA	128.00	96.00	72.00
TLK10021GWQ	296-18660-ND	XAUI to XFI Transceiver	144-BGA	83.37	77.82	72.26
TLK10021ZWQ	296-18661-ND	XAUI to XFI Transceiver	144-BGA	83.37	77.82	72.26
TNETE2201BPHD	296-10772-ND	1.25Gbps Ethernet Transceiver	64-HTQFP	9.50	7.60	6.42
TNETE2201BPJD	296-10773-ND	1.25Gbps Ethernet Transceiver	64-HTQFP	9.50	7.60	6.42

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNETE2201BPJW	296-14388-ND	1.25Gbps Ethernet Transceiver	64-HTQFP	9.50	7.60	6.42
TPS2371D	296-15960-5-ND	Power Interface Switch for PoE	8-SOIC	3.83	3.06	2.38
TPS2371PW	296-15961-5-ND	Power Interface Switch for PoE	8-TSSOP	3.83	3.06	2.38
TPS2384PAP	296-17831-ND	Quad Integrated Power Sourcing Equipment Power Manager	64-HTQFP	7.80	6.24	5.27
LCD						
BUF07702PWPR	296-15354-1-ND	Multi-Channel LCD Gamma Correction Buffer	20-HTSSOP	2.59	2.07	1.61
BUF07702PWPR	296-15354-2-ND	Multi-Channel LCD Gamma Correction Buffer	20-HTSSOP	2932.00/2,000		
BUF07703PWP	296-14632-5-ND	Multi-Channel LCD Gamma Correction Buffer	20-HTSSOP	2.48	1.98	1.54
BUF07704AIPWP	296-17357-ND	18V, 6-Channel, Gamma Correction Buffer	20-HTSSOP	2.59	2.07	1.61
BUF11705AIPWPR	296-19399-1-ND	22V Supply, 10+1 Channel Gamma Correction Buffer ***NEW!***	28-TSSOP	3.94	3.15	2.45
BUF11705AIPWPR	296-19399-2-ND	22V Supply, 10+1 Channel Gamma Correction Buffer ***NEW!***	28-TSSOP	4462.00/2,000		
BUF16820AIDAPR	296-19538-1-ND	14-Ch. Gamma Voltage Generator ***NEW!***	32-HTSSOP	5.10	4.08	3.45
BUF16820AIDAPR	296-19538-2-ND	14-Ch. Gamma Voltage Generator ***NEW!***	32-HTSSOP	6376.00/2,000		
BUF20820AIDCPR	296-19400-1-ND	18-Channel Gamma Voltage Generator ***NEW!***	38-HTSSOP	6.50	5.20	4.39
BUF20820AIDCPR	296-19400-2-ND	18-Channel Gamma Voltage Generator ***NEW!***	38-HTSSOP	8126.00/2,000		
TFP101APZP	296-9987-ND	86MHz PanelBus DVI Receiver, with HSYNC Jitter Immunity	100-HTQFP	6.00	4.80	4.05
TFP101PZP	296-9988-ND	86MHz PanelBus DVI Receiver	100-HTQFP	6.00	4.80	4.05
TFP201APZP	296-9989-ND	112MHz PanelBus DVI Receiver, with HSYNC Jitter Immunity	100-HTQFP	7.00	5.60	4.73
TFP201PZP	296-9990-ND	112MHz PanelBus DVI Receiver	100-HTQFP	7.00	5.60	4.73
TFP401APZP	296-9991-ND	165MHz PanelBus DVI Receiver, with HSYNC Jitter Immunity	100-HTQFP	8.00	6.40	5.40
TFP401PZP	296-9992-ND	165MHz PanelBus DVI Receiver	100-HTQFP	8.00	6.40	5.40
TFP403PZP	296-9993-ND	165MHz PanelBus DVI Receiver	100-HTQFP	9.08	8.18	7.25
TFP410PAP	296-12666-ND	PanelBus Digital Transmitter	64-HTQFP	6.00	4.80	4.05
LV						
SN65LV1021DB	296-12856-5-ND	10:1 LVDS Serializer	28-SSOP	8.36	6.69	5.65
SN65LV1023ADB	296-15176-5-ND	10:1 LVDS Serializer	28-SSOP	8.74	7.00	5.90
SN65LV1023ARHBR	296-19317-1-ND	10:1 LVDS Serializer ***NEW!***	32-QFN	8.74	7.00	5.90
SN65LV1023ARHBR	296-19317-2-ND	10:1 LVDS Serializer ***NEW!***	32-QFN	16257.00/3,000		
SN65LV1023DB	296-12857-5-ND	10:1 LVDS Serializer	28-SSOP	9.28	8.36	7.41
SN65LV1212DB	296-15383-5-ND	10:1 LVDS Deserializer	28-SSOP	8.84	7.08	5.97
SN65LV1224BDB	296-17327-5-ND	10:1 LVDS Deserializer	28-SSOP	8.74	7.00	5.90
SN65LV1224BRHBT	296-19318-1-ND	10:1 LVDS Deserializer ***NEW!***	32-QFN	9.70	7.76	6.55
SN65LV1224BRHBT	296-19318-2-ND	10:1 LVDS Deserializer ***NEW!***	32-QFN	1576.25/250		
LVCP						
SN65LVCP22D	296-15190-5-ND	LVDS Crosspoint Switch	16-SOIC	5.14	4.12	3.47
SN65LVCP22PW	296-15191-5-ND	LVDS Crosspoint Switch	16-TSSOP	5.14	4.12	3.47
SN65LVCP22-23EVM	296-18522-ND	Evaluation Module for SN65LVCP22-23	—	62.78	—	—
SN65LVCP23D	296-15192-5-ND	LVPECL Crosspoint Switch	16-SOIC	9.88	7.91	6.67
SN65LVCP23PW	296-15193-5-ND	LVPECL Crosspoint Switch	16-TSSOP	9.88	7.91	6.67
SN65LVCP40RGZ	296-17506-ND	DC to 4GBPS Dual 1:2 Mux/Repeater/Equalizer	48-QFN	26.10	24.36	22.62
LVDM						
SN65LVDM050D	296-1416-5-ND	Dual Differential Line Driver/Receiver	16-SOIC	4.16	3.33	2.59
SN65LVDM050PW	296-12020-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	4.16	3.33	2.59
SN65LVDM050QDQ1	296-15385-5-ND	HS Differential Line Driver/Receiver	16-SOIC	4.34	3.48	2.71
SN65LVDM050QDRQ1	296-15386-1-ND	HS Differential Line Driver/Receiver	16-SOIC	4.34	3.48	2.71
SN65LVDM050QDRQ1	296-15386-2-ND	HS Differential Line Driver/Receiver	16-SOIC	6080.00/2,500		
SN65LVDM051D	296-1417-5-ND	Dual Differential Line Driver/Receiver	16-SOIC	4.16	3.33	2.59
SN65LVDM051PW	296-12021-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	4.16	3.33	2.59
SN65LVDM051QDQ1	296-15387-5-ND	HS Differential Line Driver/Receiver	16-SOIC	4.34	3.48	2.71
SN65LVDM051QDRQ1	296-15388-1-ND	HS Differential Line Driver/Receiver	16-SOIC	4.34	3.48	2.71
SN65LVDM051QDRQ1	296-15388-2-ND	HS Differential Line Driver/Receiver	16-SOIC	6080.00/2,500		
SN65LVDM22D	296-1421-5-ND	Dual Mux LVDS Repeater	16-SOIC	4.73	3.78	2.94
SN65LVDM22PW	296-12023-5-ND	Dual Mux LVDS Repeater	16-TSSOP	4.73	3.78	2.94
SN65LVDM31D	296-6905-5-ND	HS Differential Line Driver	16-SOIC	2.93	2.34	1.82
SN65LVDM31-32BEVM	296-9736-ND	Evaluation Module for SN65LVDM31 and LVDS32B	—	62.78	—	—
SN65LVDM176D	296-1418-5-ND	HS Differential Line Transceiver	8-SOIC	3.22	2.58	2.01
SN65LVDM176DGK	296-6903-5-ND	HS Differential Multipoint Transceiver	8-MSOP	3.22	2.58	2.01
SN65LVDM179D	296-1419-5-ND	HS Differential Line Driver/Receiver	8-SOIC	3.22	2.58	2.01
SN65LVDM179DGK	296-6904-5-ND	HS Differential Line Driver/Receiver	8-SOP	3.22	2.58	2.01
SN65LVDM180D	296-1420-5-ND	HS Differential Line Driver/Receiver	14-SOIC	3.22	2.58	2.01
SN65LVDM180PW	296-12022-5-ND	HS Differential Line Driver/Receiver	14-TSSOP	3.22	2.58	2.01
SN65LVDM320DGG	296-13125-5-ND	8-Bit, HS Differential Registered Transceiver	64-TSSOP	12.74	11.48	10.18
SN75LVDM976DGG	296-1760-5-ND	9-Channel Dual-Mode Transceiver	56-TSSOP	14.66	13.20	11.71
SN75LVDM976DL	296-6934-5-ND	9-Channel Dual-Mode Transceiver	56-SOP	14.66	13.20	11.71
SN75LVDM977DGG	296-2365-5-ND	9-Channel Dual-Mode Transceiver	56-TSSOP	14.66	13.20	11.71
SN75LVDM977DL	296-6935-5-ND	9-Channel Dual-Mode Transceiver	56-SSOP	14.66	13.20	11.71
SN65LVDM1676DGG	296-9734-5-ND	16-Channel Transceiver	64-TSSOP	10.85	9.77	8.66
SN65LVDM1677DGG	296-9735-5-ND	16-Channel Transceiver	64-TSSOP	11.26	10.14	9.00
LVDS						
SN65CML100D	296-13870-5-ND	1.5-Gbps LVDS Translator/Repeater	8-SOIC	5.45	4.36	3.39
SN65CML100DGK	296-13871-5-ND	1.5-Gbps LVDS Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65LVDS047D	296-6909-5-ND	LVDS Quad Differential Line Driver	16-SOIC	2.45	1.97	1.53
SN65LVDS047PW	296-6910-5-ND	LVDS Quad Differential Line Driver	16-TSSOP	2.45	1.97	1.53
SN65LVDS048AD	296-6911-5-ND	Quad High Speed Diff. Line Receiver	16-SOIC	2.45	1.97	1.53
SN65LVDS048APW	296-6912-5-ND	Quad High Speed Diff. Line Driver	16-TSSOP	2.45	1.97	1.53
SN65LVDS049PW	296-15341-5-ND	Dual LVDS Diff. Driver/Receiver	16-TSSOP	2.10	1.68	1.26
SN65LVDS050D	296-1422-5-ND	HS Differential Line Driver/Receiver	16-SOIC	3.78	3.03	2.36
SN65LVDS050PW	296-12051-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	3.78	3.03	2.36
SN65LVDS051D	296-1423-5-ND	HS Differential Line Driver/Receiver	16-SOIC	3.78	3.03	2.36
SN65LVDS051PW	296-12052-5-ND	HS Differential Line Driver/Receiver	16-TSSOP	3.78	3.03	2.36
SN65LVDS051PWRQ1	296-16948-1-ND	HS Differential Line Driver/Receiver	16-TSSOP	3.87	3.10	2.41
SN65LVDS051PWRQ1	296-16948-2-ND	HS Differential Line Driver/Receiver	16-TSSOP	4386.00/2,000		
SN65LVDS1D	296-12138-5-ND	High Speed Differential Line Driver	8-SOIC	1.17	.98	.78
SN65LVDS1DBVR	296-6919-1-ND	High Speed Differential Line Driver	SOT-23-5	1.17	.98	.78
SN65LVDS1DBVR	296-6919-2-ND	High Speed Differential Line Driver	SOT-23-5	1521.00/3,000		
SN65LVDS2D	296-12139-5-ND	High Speed Differential Line Receiver	8-SOIC	1.48	1.18	.89
SN65LVDS2DBVR	296-6920-1-ND	High Speed Differential Line Receiver	SOT-23-5	1.17	.98	.78
SN65LVDS2DBVR	296-6920-2-ND	High Speed Differential Line Receiver	SOT-23-5	1521.00/3,000		
SN65LVDS16DRFT	296-17441-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	5.70	4.56	3.85
SN65LVDS16DRFT	296-17441-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	926.25/250		
SN65LVDS16EVM	296-17857-ND	Evaluation Module for SN65LVDS16	—	62.78	—	—
SN65LVDS17DRFT	296-17442-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	5.70	4.56	3.85
SN65LVDS17DRFT	296-17442-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	926.25/250		
SN65LVDS18DRFT	296-17443-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	4.84	3.87	3.01
SN65LVDS18DRFT	296-17443-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	715.00/250		
SN65LVDS19DRFT	296-17444-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	4.84	3.87	3.01
SN65LVDS19DRFT	296-17444-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	715.00/250		
SN65LVDS20DRFT	296-17176-1-ND	LVDS Repeater/Translator	8-SON	7.30	5.84	4.93
SN65LVDS20DRFT	296-17176-2-ND	LVDS Repeater/Translator	8-SON	1186.25/250		
SN65LVDS22D	296-1426-5-ND	Dual Mux LVDS Repeater	16-SOIC	5.29	4.23	3.29
SN65LVDS22PW	296-12024-5-ND	Dual Mux LVDS Repeater	16-TSSOP	5.29	4.23	3.29
SN65LVDS31-32BEVM	296-9740-ND	Evaluation Module for SN65LVDS31 and LVDS32B	—	62.78	—	—
SN65LVDS31-32EVM	296-9741-ND	Evaluation Module for SN65LVDS31 and LVDS32	—	62.78	—	—
SN65LVDS31D	296-6922-5-ND	Quad High Speed Differential Driver	16-SOIC	2.84	2.27	1.77
SN65LVDS31NS	296-2350-5-ND	Quad High Speed Differential Driver	16-SOP	2.84	2.27	1.77
SN65LVDS31PW	296-12329-5-ND	Quad High Speed Differential Driver	16-TSSOP	2.84	2.27	1.77
SN65LVDS32BDR	296-6923-1-ND	Quad High Speed Diff. Line Driver	16-SOIC	4.73	3.78	2.94
SN65LVDS32BDR	296-6923-2-ND	Quad High Speed Diff. Line Driver	16-SOIC	6615.00/2,500		
SN65LVDS32D	296-6924-5-ND	Quad High Speed Diff. Line Driver	16-SOIC	2.84	2.27	1.77
SN65LVDS32PW	296-12330-5-ND	Quad High Speed Diff. Line Driver	16-TSSOP	2.84	2.27	1.77
SN65LVDS33D	296-9742-5-ND	Quad High Speed Diff. Line Driver	16-SOIC	3.02	2.42	1.88
SN65LVDS33MDREP	296-19498-1-ND	Quad High Speed Diff. Line Driver ***NEW!***	16-SOIC	8.90	7.12	6.01
SN65LVDS33MDREP	296-19498-2-ND	Quad High Speed Diff. Line Driver ***NEW!***	16-SOIC	13795.00/2,500		
SN65LVDS33PW	296-9743-5-ND	Quad High Speed Diff. Line Driver	16-TSSOP	3.02	2.42	1.88
SN65LVDS34D	296-9744-5-ND	Dual High Speed Diff. Line Driver	8-SOIC	2.43	1.94	1.46
SN65LVDS84AQDGG	296-9747-5-ND	Flatlink™ Transmitter	48-TSSOP	4.82	3.86	3.00
SN65LVDS84AQDGGR	296-9747-1-ND	Flatlink™ Transmitter	48-TSSOP	4.82	3.86	3.00
SN65LVDS84AQDGGR	296-9747-2-ND	Flatlink™ Transmitter	48-TSSOP	5458.00/2,000		
SN65LVDS86AQDGGR	296-9748-1-ND	Flatlink™ Receiver	48-TSSOP	4.82	3.86	3.00
SN65LVDS86AQDGGR	296-9748-2-ND	Flatlink™ Receiver	48-TSSOP	5458.00/2,000		
SN65LVDS93DGG	296-1429-5-ND	LVDS SERDES Transmitter	56-TSSOP	6.56	5.25	4.43
SN65LVDS94DGG	296-1430-5-ND	LVDS SERDES Receiver	56-TSSOP	6.56	5.25	4.43
SN65LVDS95DGG	296-1431-5-ND	LVDS SERDES Transmitter	48-TSSOP	6.56	5.25	4.43
SN65LVDS95DGGRQ1	296-16950-1-ND	LVDS SERDES Transmitter	48-TSSOP	6.56	5.25	4.43
SN65LVDS95DGGRQ1	296-16950-2-ND	LVDS SERDES Transmitter	48-TSSOP	8200.00/2,000		
SN65LVDS96DGG	296-1434-5-ND	LVDS SERDES Receiver	48-TSSOP	6.56	5.25	4.43
SN65LVDS100D	296-13624-5-ND	2Gbps Differential Translator/Repeater	8-SOIC	5.45	4.36	3.39
SN65LVDS100DGK	296-13625-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65LVDS101D	296-13626-5-ND	2Gbps Differential Translator/Repeater	8-SOIC	5.45	4.36	3.39
SN65LVDS101DGK	296-13627-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65LVDS104D	296-2344-5-ND	1:4 LVDS Clock Buffer	16-SOIC	4.25	3.41	2.65
SN65LVDS104PW	296-6915-5-ND	1:4 LVDS Clock Buffer	16-TSSOP	4.25	3.41	2.65
SN65LVDS105D	296-2345-5-ND	1:4 LVDS Clock Buffer	16-SOIC	4.25	3.41	2.65
SN65LVDS105PW	296-6917-5-ND	1:4 LVDS Clock Buffer	16-TSSOP	4.25	3.41	2.65
SN65LVDS108DBT	296-2346-5-ND	8-Port LVDS Repeater	38-TSSOP	6.72	5.38	4.54
SN65LVDS109DBT	296-2347-5-ND	Dual 1:4 LVDS Repeater	38-TSSOP	6.72	5.38	4.54
SN65LVDS116DGG	296-2348-5-ND	1:16 LVDS Repeater	64-TSSOP	8.40	7.56	6.71
SN65LVDS116DGGR	296-2348-1-ND	1:16 LVDS Repeater	64-TSSOP	8.40	7.56	6.71
SN65LVDS116DGGR	296-2348-2-ND	1:16 LVDS Repeater	64-TSSOP	12448.00/2,000		
SN65LVDS117DGG	296-2349-5-ND	Dual 8-Port LVDS Repeater	64-TSSOP	8.40	7.56	6.71
SN65LVDS117DGGR	296-2349-1-ND	Dual 8-Port LVDS Repeater	64-TSSOP	8.40	7.56	6.71
SN65LVDS117DGGR	296-2349-2-ND	Dual 8-Port LVDS Repeater	64-TSSOP	12448.00/2,000		
SN65LVDS125ADBT	296-18524-5-ND	1.5Gbps 4x4 LVDS Crosspoint Switch	38-TSSOP	12.25	11.03	9.78
SN65LVDS125AEVM	296-18525-ND	Evaluation Module for SN65LVDS125A	—	62.78	—	—
SN65LVDS125DBT	296-15729-5-ND	1.5Gbps 4x4 LVDS Crosspoint Switch	38-TSSOP	13.78	12.41	11.00
SN65LVDS150PW	296-9737-5-ND	MuxIt™ PLL Freq. Multiplier	28-TSSOP	5.88	4.71	3.97
SN65LVDS151DA	296-9738-5-ND	MuxIt™ Serializer Transmitter	32-TSSOP	4.82	3.86	3.00
SN65LVDS152DA	296-9739-5-ND	MuxIt™ Receiver/Deserializer	32-TSSOP	4.82	3.86	3.00
SN65LVDS179D	296-1424-5-ND	Single HS Differential Driver/Receiver	8-SOIC	2.54	2.04	1.59
SN65LVDS179DGK	296-6918-5-ND	Single HS Diff. Driver/Receiver	8-MSOP	2.54	2.04	1.59
SN65LVDS180D	296-1425-5-ND	HS Differential Line Driver/Receiver	14-SOIC	2.54	2.04	1.59
SN65LVDS180PW	296-12053-5-ND	HS Differential Line Driver/Receiver	14-TSSOP	2.54	2.04	1.59
SN65LVDS180PWRQ1	296-16949-1-ND	HS Differential Line Driver/Receiver	16-TSSOP	2.66	2.13	1.66
SN65LVDS180PWRQ1	296-16949-2-ND	HS Differential Line Driver/Receiver	16-TSSOP	3010.00/2,000		
SN65LVDS250DBT	296-16931-ND	LVDS 4x4 Crosspoint Switch	38-TSSOP	12.91	11.63	10.31
SN65LVDS250EVM	296-16985-ND	Eval. Module for SN65LVDS250	—	62.78	58.59	54.41
SN65LVDS348D	296-12735-5-ND	Quad High Speed Diff. Receiver	16-SOIC	3.02	2.42	1.88
SN65LVDS348PW	296-12648-5-ND	Quad High Speed Diff. Receiver	16-TSSOP	3.02	2.42	1.88
SN65LVDS352PW	296-12649-5-ND	Quad High Speed Diff. Receiver	16-TSSOP	3.40	2.72	2.12
SN65LVDS386DGG	296-2353-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.32	7.46	6.30
SN65LVDS386DGGR	296-2353-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.32	7.46	6.30
SN65LVDS386DGGR	296-2353-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	11650.00/2,000		
SN65LVDS386EVM	296-9745-ND	Evaluation Module for SN65LVDS386	—	62.78	—	—
SN65LVDS387DGG	296-2354-5-ND	16-Ch., High Speed Diff. Driver	64-TSSOP	9.32	7.46	6.30
SN65LVDS387EVM	296-9746-ND	Evaluation Module for SN65LVDS387	—	62.78	—	—
SN65LVDS388ADBT	296-6926-5-ND	Octal LVDS Receiver	38-TSSOP	5.49	4.40	3.42
SN65LVDS389DBT	296-2356-5-ND	8-Channel, High Speed Diff. Driver	38-TSSOP	5.49	4.40	3.42
SN65LVDS390D	296-6927-5-ND	High Speed Diff. Line Receiver	16-SOIC	2.84	2.27	1.77
SN65LVDS390PW	296-6928-5-ND	High Speed Diff. Line Receiver	16-TSSOP	2.84	2.27	1.77
SN65LVDS391D	296-6929-5-ND	High Speed Differential Driver	16-SOIC	2.84	2.27	1.77
SN65LVDS391PW	296-6930-5-ND	High Speed Differential Driver	16-TSSOP	2.84	2.27	1.77
SN65LVDS1050PW	296-6916-5-ND	HS Differential Line Receiver	16-TSSOP	3.78	3.03	2.36
SN65LVDS3486BDR	296-6925-1-ND	Quad LVDS Receiver	16-SOIC	3.40	2.72	2.12
SN65LVDS3486BDR	296-6925-2-ND	Quad LVDS Receiver	16-SOIC	4757.50/2,500		
SN65LVDS3486D	296-1427-5-ND	High Speed Differential Line Receiver	16-SOIC	2.84	2.27	1.77

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65LVDS3487D	296-1428-5-ND	Quad High Speed Diff. Line Driver	16-SOIC	2.84	2.27	1.77
SN65LVDS9637BDR	296-6931-1-ND	Dual LVDS Receiver	8-SOIC	2.43	1.94	1.46
SN65LVDS9637BDR	296-6931-2-ND	Dual LVDS Receiver	8-SOIC	3105.00/2,500		
SN65LVDS9637D	296-1432-5-ND	Dual HS Differential Receiver	8-SOIC	2.43	1.94	1.46
SN65LVDS9637DGK	296-12003-5-ND	Dual HS Differential Receiver	8-MSOP	2.43	1.94	1.46
SN65LVDS9637DGKR	296-12003-1-ND	Dual HS Differential Receiver	8-MSOP	2.43	1.94	1.46
SN65LVDS9637DGKR	296-12003-2-ND	Dual HS Differential Receiver	8-MSOP	3105.00/2,500		
SN65LVDS9637DGN	296-6932-5-ND	Dual HS Differential Receiver	8-MSOP	2.36	1.89	1.47
SN65LVDS9638D	296-1433-5-ND	Dual HS Differential Driver	8-SOIC	2.43	1.94	1.46
SN65LVDS9638DGKR	296-12004-1-ND	Dual HS Differential Driver	8-MSOP	2.43	1.94	1.46
SN65LVDS9638DGKR	296-12004-2-ND	Dual HS Differential Driver	8-MSOP	3105.00/2,500		
SN65LVDS9638DGN	296-6933-5-ND	Dual HS Differential Driver	8-MSOP	2.36	1.89	1.47
SN65MLVD080DGG	296-15783-5-ND	8-Ch. Half-Duplex Multipoint LVDS Line Transceiver	64-TSSOP	9.50	7.60	6.42
SN65MLVD082DGG	296-15833-5-ND	8-Ch. Half-Duplex Multipoint LVDS Line Transceiver	64-TSSOP	9.50	7.60	6.42
SN65MLVD201D	296-14187-5-ND	Multipoint LVDS Line Driver/Receiver	8-SOIC	3.96	3.17	2.47
SN65MLVD203D	296-14188-5-ND	Multipoint LVDS Line Driver/Receiver	14-SOIC	3.96	3.17	2.47
SN65MLVD206D	296-14189-5-ND	Multipoint LVDS Line Driver/Receiver	8-SOIC	3.96	3.17	2.47
SN65MLVD207D	296-14190-5-ND	Multipoint LVDS Line Driver/Receiver	14-SOIC	3.96	3.17	2.47
SN75LVDS31D	296-12325-5-ND	Quad HS Differential Driver	16-SOIC	2.84	2.27	1.77
SN75LVDS31PW	296-12005-5-ND	Quad HS Differential Driver	16-TSSOP	2.84	2.27	1.77
SN75LVDS31PWR	296-12005-1-ND	Quad HS Differential Driver	16-TSSOP	2.84	2.27	1.77
SN75LVDS31PWR	296-12005-2-ND	Quad HS Differential Driver	16-TSSOP	3214.00/2,000		
SN75LVDS32D	296-12326-5-ND	Quad HS Differential Driver	16-SOIC	2.84	2.27	1.77
SN75LVDS32PW	296-13328-5-ND	Quad HS Differential Driver	16-TSSOP	2.84	2.27	1.77
SN75LVDS82DGGR	296-6666-1-ND	Flatlink™ Receiver	56-TSSOP	4.25	3.41	2.65
SN75LVDS82DGGR	296-6666-2-ND	Flatlink™ Receiver	56-TSSOP	4820.00/2,000		
SN75LVDS83DGG	296-6667-5-ND	Flatlink™ Transmitter	56-TSSOP	3.96	3.17	2.47
SN75LVDS84ADGGR	296-6668-1-ND	Flatlink™ Transmitter	48-TSSOP	4.16	3.33	2.59
SN75LVDS84ADGGR	296-6668-2-ND	Flatlink™ Transmitter	48-TSSOP	4718.00/2,000		
SN75LVDS86ADGG	296-1998-5-ND	Flatlink™ Receiver	48-TSSOP	4.16	3.33	2.59
SN75LVDS86ADGGR	296-6671-1-ND	Flatlink™ Receiver	48-TSSOP	4.16	3.33	2.59
SN75LVDS86ADGGR	296-6671-2-ND	Flatlink™ Receiver	48-TSSOP	4718.00/2,000		
SN75LVDS86DGG	296-6672-5-ND	Flatlink™ Receiver	48-TSSOP	3.87	3.10	2.41
SN75LVDS88BPFD	296-6673-5-ND	FT LCD-Panel Timing Controller with LVDS Interface	100-HTQFP	7.14	5.72	4.82
SN75LVDS050D	296-12321-5-ND	Dual Low Voltage Diff. Driver/Rcvr.	16-SOIC	3.22	2.58	2.01
SN75LVDS051D	296-12322-5-ND	Dual Low Voltage Diff. Driver/Rcvr.	16-SOIC	3.22	2.58	2.01
SN75LVDS179D	296-12323-5-ND	Low Voltage Diff. Driver/Receiver	8-SOIC	2.27	1.82	1.42
SN75LVDS180D	296-12324-5-ND	Low Voltage Diff. Driver/Receiver	14-SOIC	2.27	1.82	1.42
SN75LVDS386DGG	296-9975-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDS386DGGR	296-9975-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDS386DGGR	296-9975-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	10176.00/2,000		
SN75LVDS387DGG	296-2367-5-ND	16-Ch., High Speed Diff. Driver	64-TSSOP	8.14	6.52	5.50
SN75LVDS389DBT	296-2369-5-ND	8-Ch., High Speed Diff. Driver	38-TSSOP	5.49	4.40	3.42
SN75LVDS9637D	296-12327-5-ND	Dual High Speed Differential Receiver	8-SOIC	2.43	1.94	1.46
SN75LVDS9638D	296-12328-5-ND	Dual High Speed Differential Driver	8-SOIC	2.43	1.94	1.46

LVDT

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65LVDT2D	296-12140-5-ND	High Speed Diff. Line Receiver	8-SOIC	1.48	1.18	.89
SN65LVDT2DBVR	296-6896-1-ND	High Speed Diff. Line Receiver	SOT-23-5	1.17	.98	.78
SN65LVDT2DBVR	296-6896-2-ND	High Speed Diff. Line Receiver	SOT-23-5	1521.00/3,000		
SN65LVDT14PW	296-12736-5-ND	High Speed Diff. Driver/Receiver	20-TSSOP	4.93	3.95	3.07
SN65LVDT14QPWREP	296-19499-1-ND	Memory Stick™ Interconnect Extender Chipset with LVDS, One Driver Plus Four Receivers ***NEW!***	20-TSSOP	9.66	8.70	7.72
SN65LVDT14QPWREP	296-19499-2-ND	Memory Stick™ Interconnect Extender Chipset with LVDS, One Driver Plus Four Receivers ***NEW!***	20-TSSOP	14326.00/2,000		
SN65LVDT32BDR	296-6897-1-ND	Quad LVDS Receiver	16-SOIC	4.73	3.78	2.94
SN65LVDT32BDR	296-6897-2-ND	Quad LVDS Receiver	16-SOIC	6615.00/2,500		
SN65LVDT33D	296-9749-5-ND	Quad, High Speed Diff. Receiver	16-SOIC	3.02	2.42	1.88
SN65LVDT33PW	296-9750-5-ND	Quad, High Speed Diff. Receiver	16-TSSOP	3.02	2.42	1.88
SN65LVDT34D	296-9751-5-ND	Dual, High Speed Diff. Receiver	8-SOIC	2.43	1.94	1.46
SN65LVDT41PW	296-12738-5-ND	High Speed Diff. Driver/Receiver	20-TSSOP	4.93	3.95	3.07
SN65LVDT100D	296-15389-5-ND	2Gbps Diff. Translator/Repeater	8-SOIC	5.45	4.36	3.39
SN65LVDT100DGK	296-15390-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65LVDT101D	296-15391-5-ND	2Gbps Diff. Translator/Repeater	8-SOIC	5.45	4.36	3.39
SN65LVDT101DGK	296-15392-5-ND	2Gbps Diff. Translator/Repeater	8-MSOP	5.45	4.36	3.39
SN65LVDT125ADBT	296-16979-ND	1.5Gbps 4x4 LVDS Crosspoint Switch	38-TSSOP	12.25	11.03	9.78
SN65LVDT250DBT	296-16932-ND	LVDS 4x4 Crosspoint Switch	38-TSSOP	12.91	11.63	10.31
SN65LVDT348D	296-12737-5-ND	Quad, HS Differential Receiver	16-SOIC	3.02	2.42	1.88
SN65LVDT348PW	296-12650-5-ND	Quad, HS Differential Receiver	16-TSSOP	3.02	2.42	1.88
SN65LVDT352PW	296-12651-5-ND	Quad, HS Differential Receiver	16-TSSOP	3.40	2.72	2.12
SN65LVDT386DGG	296-2360-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.32	7.46	6.30
SN65LVDT386DGGR	296-2360-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	9.32	7.46	6.30
SN65LVDT386DGGR	296-2360-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	11650.00/2,000		
SN65LVDT388ADBT	296-6899-5-ND	Octal LVDS Receiver	38-TSSOP	5.49	4.40	3.42
SN65LVDT390D	296-6900-5-ND	High Speed Diff. Line Receiver	16-SOIC	2.84	2.27	1.77
SN65LVDT390PW	296-6901-5-ND	High Speed Diff. Line Receiver	16-TSSOP	2.84	2.27	1.77
SN65LVDT3486BDR	296-6898-1-ND	Quad LVDS Receiver	16-SOIC	3.40	2.72	2.12
SN65LVDT3486BDR	296-6898-2-ND	Quad LVDS Receiver	16-SOIC	4757.50/2,500		
SN65LVDT9637BDR	296-6902-1-ND	Dual LVDS Receiver	8-SOIC	4.25	3.41	2.65
SN65LVDT9637BDR	296-6902-2-ND	Dual LVDS Receiver	8-SOIC	5952.50/2,500		
SN75LVDT386DGG	296-2370-5-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDT386DGGR	296-2370-1-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	8.14	6.52	5.50
SN75LVDT386DGGR	296-2370-2-ND	16-Ch., High Speed Diff. Receiver	64-TSSOP	10176.00/2,000		
SN75LVDT1422PAG	296-18076-ND	14-Bit Full Duplex Serializer/ Deserializer	64-TQFP	7.40	5.92	5.00

LVP

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65LVP16DRFT	296-17445-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	5.70	4.56	3.85
SN65LVP16DRFT	296-17445-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	926.25/250		
SN65LVP16EVM	296-18530-ND	Evaluation Module for SN65LVP16	—	62.78	—	—
SN65LVP17DRFT	296-17446-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	5.70	4.56	3.85
SN65LVP17DRFT	296-17446-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	926.25/250		
SN65LVP18DRFT	296-17447-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	4.84	3.87	3.01
SN65LVP18DRFT	296-17447-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	715.00/250		
SN65LVP18EVM	296-19430-ND	Evaluation Module for SN65LVP18 ***NEW!***	—	62.78	—	—
SN65LVP19DRFT	296-17448-1-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	4.84	3.87	3.01
SN65LVP19DRFT	296-17448-2-ND	2.5V/3.3V Oscillator Gain Stage/Buffer	9-SON	715.00/250		
SN65LVP20DRFT	296-17177-1-ND	LVPECL Repeater/Translator	8-SOIC	9.70	7.76	6.55
SN65LVP20DRFT	296-17177-2-ND	LVPECL Repeater/Translator	8-SOIC	1576.25/250		
SN65LVP20EVM	296-18531-ND	Evaluation Module for SN65LVP20	—	62.78	—	—

RS422 / RS423 / RS485

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AM26C31CD	296-6781-5-ND	Quad Differential Line Driver	16-SOIC	1.20	1.00	.80
AM26C31CDBR	296-6782-1-ND	Quad Differential Line Driver	16-SSOP	.90	.75	.60
AM26C31CDBR	296-6782-2-ND	Quad Differential Line Driver	16-SSOP	798.00/2,000		
AM26C31CN	296-6783-5-ND	Quad Differential Line Driver	16-Dip	1.20	1.00	.80
AM26C31ID	296-6784-5-ND	Quad Differential Line Driver	16-SOIC	1.35	1.13	.90
AM26C31IN	296-6785-5-ND	Quad Differential Line Driver	16-Dip	1.35	1.13	.90
AM26C31QD	296-13867-5-ND	Quad Differential Line Driver	16-SOIC	2.95	2.36	1.84
AM26C32CD	296-6786-5-ND	Quad Differential Line Receiver	16-SOIC	1.20	1.00	.80
AM26C32CN	296-6787-5-ND	Quad Differential Line Receiver	16-Dip	1.20	1.00	.80
AM26C32ID	296-6788-5-ND	Quad Differential Line Receiver	16-SOIC	1.35	1.13	.90
AM26C32IDR	296-14471-1-ND	Quad Differential Line Receiver	16-SOIC	1.35	1.13	.90
AM26C32IDR	296-14471-2-ND	Quad Differential Line Receiver	16-SOIC	1462.50/2,500		
AM26C32IN	296-6789-5-ND	Quad Differential Line Receiver	16-Dip	1.35	1.13	.90
AM26C32QD	296-13868-5-ND	Quad Differential Line Receiver	16-SOIC	2.95	2.36	1.84
AM26LS31CD	296-1010-5-ND	Quad Differential Line Driver	16-SOIC	.75	.63	.50
AM26LS31CDR	296-1010-1-ND	Quad Differential Line Driver	16-SOIC	.75	.63	.50
AM26LS31CDR	296-1010-2-ND	Quad Differential Line Driver	16-SOIC	812.50/2,500		
AM26LS31CN	296-1374-5-ND	Quad Differential Line Driver	16-Dip	.75	.63	.50
AM26LS32ACD	296-1011-5-ND	Quad Differential Line Receiver	16-SOIC	.75	.63	.50
AM26LS32ACDR	296-1011-1-ND	Quad Differential Line Receiver	16-SOIC	.75	.63	.50
AM26LS32ACDR	296-1011-2-ND	Quad Differential Line Receiver	16-SOIC	812.50/2,500		
AM26LS32ACN	296-1376-5-ND	Quad Differential Line Receiver	16-Dip	.75	.63	.50
AM26LS32ACNSR	296-6790-1-ND	Quad Differential Line Receiver	16-SOP	.75	.63	.50
AM26LS32ACNSR	296-6790-2-ND	Quad Differential Line Receiver	16-SOP	666.00/2,000		
AM26LS32AIDR	296-13065-1-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LS32AIDR	296-13065-2-ND	Quad Differential Line Receiver	16-SOIC	650.00/2,500		
AM26LS32AIN	296-13066-5-ND	Quad Differential Line Receiver	16-Dip	.80	.60	.45
AM26LS33ACD	296-6791-5-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LS33ACDR	296-14473-1-ND	Quad Differential Line Receiver	16-SOIC	.80	.60	.45
AM26LS33ACDR	296-14473-2-ND	Quad Differential Line Receiver	16-SOIC	650.00/2,500		
AM26LS33ACN	296-6792-5-ND	Quad Differential Line Receiver	16-Dip	.80	.60	.45
AM26LV31CD	296-6793-5-ND	Quad Differential Line Driver	16-SOIC	.90	.75	.60
AM26LV31IDR	296-18088-1-ND	Quad Differential Line Driver	16-SOIC	1.20	1.00	.80
AM26LV31IDR	296-18088-2-ND	Quad Differential Line Driver	16-SOIC	1300.00/2,500		
AM26LV31INSR	296-18089-1-ND	Quad Differential Line Driver	16-SOIC	1.32	1.10	.88
AM26LV31INSR	296-18089-2-ND	Quad Differential Line Driver	16-SOIC	1170.00/2,000		
AM26LV32CD	296-6794-5-ND	Quad Differential Line Receiver	16-SOIC	.90	.75	.60
AM26LV32CDR	296-6794-1-ND	Quad Differential Line Receiver	16-SOIC	.90	.75	.60
AM26LV32CNSR	296-6796-1-ND	Quad Differential Line Receiver	16-SOP	.90	.75	.60
AM26LV32CNSR	296-6796-2-ND	Quad Differential Line Receiver	16-SOP	798.00/2,000		
AM26LV32IDR	296-18090-5-ND	Quad Differential Line Receiver	16-SOIC	1.20	1.00	.80
AM26LV32INSR	296-18091-1-ND	Quad Differential Line Receiver	16-SOP	1.20	1.00	.80
AM26LV32INSR	296-18091-2-ND	Quad Differential Line Receiver	16-SOP	1064.00/2,000		
AM26S10CD	296-6797-5-ND	Quad Bus Transceiver	16-SOIC	1.20	1.00	.80
AM26S10CN	296-6798-5-ND	Quad Bus Transceiver	16-Dip	1.32	1.10	.88
M26LV32CDR	296-6794-2-ND	Quad Differential Line Receiver	16-SOP	975.00/2,500		
MC3486D	296-7037-5-ND	Tri-State Quad Diff. Line Receiver	16-SOIC	.75	.63	.50
MC3486DR	296-14624-1-ND	Tri-State Quad Diff. Line Receiver	16-SOIC	.75	.63	.50
MC3486DR	296-14624-2-ND	Tri-State Quad Diff. Line Receiver	16-SOIC	812.50/2,500		
MC3486N	296-7038-5-ND	Tri-State Quad Diff. Line Receiver	16-Dip	.75	.63	.50
MC3487DR	296-14625-1-ND	Quad Differential Line Driver	16-SOIC	.75	.63	.50
MC3487DR	296-14625-2-ND	Quad Differential Line Driver	16-SOIC	812.50/2,500		
MC3487N	296-1408-5-ND	Quad Differential Line Driver	16-Dip	.75	.63	.50
SN65176BDR	296-14636-1-ND	Differential Bus Transceiver	8-SOIC	.88	.66	.50
SN65C1167NSR	296-9699-1-ND	Dual Differential Driver/Receiver	16-SOP	2.93	2.34	1.82
SN65C1167NSR	296-9699-2-ND	Dual Differential Driver/Receiver	16-SOP	3316.00/2,000		
SN65C1168PWR	296-14348-1-ND	Dual Differential Driver/Receiver	16-TSSOP	1.88	1.50	1.13
SN65C1168PWR	296-14348-2-ND	Dual Differential Driver/Receiver	16-TSSOP	1950.00/2,000		
SN65HVD05D	296-12988-5-ND	High Output RS-485 Transceiver	8-SOIC	3.42	2.74	2.13
SN65HVD05P	296-15215-5-ND	High Output RS-485 Transceiver	8-Dip	3.42	2.74	2.13
SN65HVD06D	296-12989-5-ND	High Output RS-485 Transceiver	8-SOIC	3.31	2.65	2.06
SN65HVD06P	296-15095-5-ND	High Output RS-485 Transceiver	8-Dip	3.31	2.65	2.06
SN65HVD07D	296-12990-5-ND	High Output RS-485 Transceiver	8-SOIC	3.22	2.58	2.01
SN65HVD07P	296-19415-5-ND	High Output RS-485 Transceiver ***NEW!***	8-Dip	3.22	2.58	2.01
SN65HVD08D	296-14010-5-ND	Wide Supply Range RS-485 Transcvr	8-SOIC	4.28	3.42	2.66
SN65HVD08P	296-14011-5-ND	Wide Supply Range RS-485 Transceiver	8-Dip	4.28	3.42	2.66
SN65HVD10D	296-12645-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.96	3.17	2.47
SN65HVD10QD	296-14012-5-ND	3.3V RS-485 Transceiver	8-SOIC	5.13	4.11	3.20
SN65HVD11D	296-12646-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.85	3.08	2.40
SN65HVD11P	296-18521-5-ND	3.3V RS-485 Transceiver	8-Dip	3.85	3.08	2.40
SN65HVD11QD	296-14013-5-ND	3.3V RS-485 Transceiver	8-SOIC	4.93	3.95	3.07
SN65HVD12D	296-12647-5-ND	3.3V RS-485 Transceiver	8-SOIC	3.74	2.99	2.33
SN65HVD12IDREP	296-18121-1-ND	3.3V RS-485 Transceiver	8-SOIC	8.30	6.64	5.61
SN65HVD12IDREP	296-18121-2-ND	3.3V RS-485 Transceiver	8-SOIC	12865.00/2,500		
SN65HVD12P	296-13862-5-ND	3.3V RS-485 Transceiver	8-Dip	3.74	2.99	2.33
SN65HVD20D	296-14184-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	3.71	2.97	2.31
SN65HVD21D	296-14185-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	3.71	2.97	2.31
SN65HVD21MDREP	296-19496-1-ND	Extended Common-Mode RS-485 Transceiver ***NEW!***	8-SOIC	8.24	6.60	5.57
SN65HVD21MDREP	296-19496-2-ND	Extended Common-Mode RS-485 Transceiver ***NEW!***	8-SOIC	12772.50/2,500		
SN65HVD21P	296-15096-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	3.71	2.97	2.31
SN65HVD22D	296-14186-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	3.71	2.97	2.31
SN65HVD22P	296-15097-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	3.71	2.97	2.31
SN65HVD23D	296-15230-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	4.05	3.24	2.52
SN65HVD23P	296-15231-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	4.05	3.24	2.52
SN65HVD24D	296-15232-5-ND	Extended Common-Mode RS-485 Transceiver	8-SOIC	4.05	3.24	2.52
SN65HVD24P	296-15233-5-ND	Extended Common-Mode RS-485 Transceiver	8-Dip	4.05	3.24	2.52

(Continued)

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DATA TRANSMISSION *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65HVD33DR	296-18704-1-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	4.16	3.33	2.59
SN65HVD33DR	296-18704-2-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	5827.50/2,500		
SN65HVD34DR	296-18705-1-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	4.16	3.33	2.59
SN65HVD34DR	296-18705-2-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	5827.50/2,500		
SN65HVD35DR	296-18706-1-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	4.16	3.33	2.59
SN65HVD35DR	296-18706-2-ND	3.3V Full-Duplex RS-485 Transceiver	14-SOIC	5827.50/2,500		
SN65HVD53DR	296-18707-1-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	3.94	3.15	2.45
SN65HVD53DR	296-18707-2-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	5512.50/2,500		
SN65HVD54DR	296-18708-1-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	3.94	3.15	2.45
SN65HVD54DR	296-18708-2-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	5512.50/2,500		
SN65HVD55DR	296-18709-1-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	3.94	3.15	2.45
SN65HVD55DR	296-18709-2-ND	High Output Full-Duplex RS-485 Transceiver	14-SOIC	5512.50/2,500		
SN65HVD230DR	296-11654-1-ND	3.3V CAN Transcvr w/Standby Mode	8-SOIC	3.04	2.43	1.89
SN65HVD230DR	296-11654-2-ND	3.3V CAN Transcvr w/Standby Mode	8-SOIC	4252.50/2,500		
SN65HVD230QD	296-13123-5-ND	3.3V CAN Transcvr w/Standby Mode	8-SOIC	3.49	2.79	2.17
SN65HVD231D	296-12206-5-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	3.04	2.43	1.89
SN65HVD231QD	296-12704-5-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	3.49	2.79	2.17
SN65HVD231QDRQ1	296-15380-1-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	3.60	2.88	2.24
SN65HVD231QDRQ1	296-15380-2-ND	3.3V CAN Transcvr with Sleep Mode	8-SOIC	5040.00/2,500		
SN65HVD232D	296-12282-5-ND	3.3V CAN Transceiver	8-SOIC	2.93	2.34	1.82
SN65HVD232QD	296-12705-5-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	3.38	2.70	2.10
SN65HVD232QDRQ1	296-15381-1-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	3.38	2.70	2.10
SN65HVD232QDRQ1	296-15381-2-ND	3.3V CAN Transceiver Q100 Qualified	8-SOIC	4725.00/2,500		
SN65HVD233D	296-14639-5-ND	3.3V CAN Transceiver	8-SOIC	3.38	2.70	2.10
SN65HVD234D	296-15228-5-ND	3.3V CAN Transceiver	8-SOIC	3.26	2.61	2.03
SN65HVD235D	296-15229-5-ND	3.3V CAN Transceiver	8-SOIC	3.38	2.70	2.10
SN65HVD251D	296-13816-5-ND	CAN Transceiver	8-SOIC	2.15	1.72	1.29
SN65HVD251P	296-19281-5-ND	CAN Transceiver	8-Dip	2.15	1.72	1.29
SN65HVD485EDGKR	296-17174-1-ND	Half-Duplex RS-485 Transceiver	8-MSOP	2.38	1.90	1.43
SN65HVD485EDGKR	296-17174-2-ND	Half-Duplex RS-485 Transceiver	8-MSOP	3040.00/2,500		
SN65HVD485EDR	296-17175-1-ND	Half-Duplex RS-485 Transceiver	8-SOIC	1.68	1.34	1.01
SN65HVD485EDR	296-17175-2-ND	Half-Duplex RS-485 Transceiver	8-SOIC	2145.00/2,500		
SN65HVD485EP	296-17498-5-ND	Half-Duplex RS-485 Transceiver	8-Dip	1.68	1.34	1.01
SN65HVD1050D	296-19416-5-ND	EMC Optimized CAN Transceiver ***NEW!***	8-SOIC	1.30	1.04	.78
SN65HVD1176D	296-15345-5-ND	Profibus RS-485 Transceiver	8-SOIC	3.31	2.65	2.06
SN65HVD3082ED	296-14640-5-ND	Low Power RS-485 Transceiver	8-SOIC	2.15	1.72	1.29
SN65HVD3082EDGK	296-17929-ND	Low Power RS-485 Transceiver	8-MSOP	2.57	2.06	1.60
SN65HVD3082EP	296-15382-5-ND	Low Power RS-485 Transceiver	8-Dip	2.15	1.72	1.29
SN65HVD3085ED	296-17170-5-ND	Low Power RS-485 Transceiver	8-SOIC	2.15	1.72	1.29
SN65HVD3085EDGK	296-17171-5-ND	Low Power RS-485 Transceiver	8-MSOP	2.57	2.06	1.60
SN65HVD3088ED	296-17172-5-ND	Low Power RS-485 Transceiver	8-SOIC	2.38	1.90	1.43
SN65HVD3088EDGK	296-17173-5-ND	Low Power RS-485 Transceiver	8-MSOP	2.79	2.24	1.74
SN65LBC031D	296-9700-5-ND	High Speed CAN Transceiver	8-SOIC	3.38	2.70	2.10
SN65LBC031QD	296-9701-5-ND	High Speed CAN Transceiver	8-SOIC	3.94	3.15	2.45
SN65LBC031QDR	296-9701-1-ND	High Speed CAN Transceiver	8-SOIC	3.94	3.15	2.45
SN65LBC031QDR	296-9701-2-ND	High Speed CAN Transceiver	8-SOIC	5512.50/2,500		
SN65LBC170DB	296-9702-5-ND	Triple Differential Transceiver	16-SSOP	6.88	5.51	4.65
SN65LBC170DW	296-9703-5-ND	Triple Differential Transceiver	20-SOIC	6.88	5.51	4.65
SN65LBC171DB	296-9704-5-ND	Triple Differential Transceiver	16-SSOP	6.88	5.51	4.65
SN65LBC171DW	296-9705-5-ND	Triple Differential Transceiver	20-SOIC	6.88	5.51	4.65
SN65LBC172A16DW	296-15174-5-ND	Quad LP Differential Line Driver	16-SOIC	4.55	3.64	2.83
SN65LBC172ADW	296-9706-5-ND	Quad LP Differential Line Driver	20-SOIC	4.55	3.64	2.83
SN65LBC172AN	296-12283-5-ND	Quad LP Differential Line Driver	16-Dip	4.55	3.64	2.83
SN65LBC172DW	296-9707-5-ND	Quad LP Differential Line Driver	20-SOIC	3.40	2.72	2.12
SN65LBC172N	296-9708-5-ND	Quad LP Differential Line Driver	16-Dip	3.40	2.72	2.12
SN65LBC173AD	296-9709-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.84	2.27	1.77
SN65LBC173AN	296-9710-5-ND	Quad LP Differential Line Receiver	16-Dip	2.84	2.27	1.77
SN65LBC173D	296-9711-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.43	1.94	1.46
SN65LBC173N	296-9712-5-ND	Quad LP Differential Line Receiver	16-Dip	2.43	1.94	1.46
SN65LBC174A16DW	296-15175-5-ND	Quad LP Differential Line Driver	16-SOIC	4.73	3.78	2.94
SN65LBC174ADW	296-9713-5-ND	Quad LP Differential Line Driver	20-SOIC	4.73	3.78	2.94
SN65LBC174AN	296-12284-5-ND	Quad LP Differential Line Driver	16-Dip	4.73	3.78	2.94
SN65LBC174DW	296-9714-5-ND	Quad LP Differential Line Driver	20-SOIC	3.60	2.88	2.24
SN65LBC174N	296-9715-5-ND	Quad LP Differential Line Driver	16-Dip	3.60	2.88	2.24
SN65LBC175AD	296-9716-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.66	2.13	1.66
SN65LBC175AN	296-13124-5-ND	Quad RS-485 Diff. Line Receiver	16-Dip	2.66	2.13	1.66
SN65LBC175D	296-9717-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.30	1.84	1.38
SN65LBC175DW	296-12460-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.30	1.84	1.38
SN65LBC175N	296-9718-5-ND	Quad LP Differential Line Receiver	16-Dip	2.30	1.84	1.38
SN65LBC176AD	296-9719-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.27	1.82	1.42
SN65LBC176AP	296-9720-5-ND	Quad LP Differential Bus Transceiver	8-Dip	2.27	1.82	1.42
SN65LBC176AQD	296-9721-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.36	1.89	1.47
SN65LBC176D	296-9722-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	1.90	1.52	1.14
SN65LBC176P	296-9723-5-ND	Quad LP Differential Bus Transceiver	8-Dip	1.90	1.52	1.14
SN65LBC176QD	296-9724-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.00	1.60	1.20
SN65LBC176QDRQ1	296-16947-1-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.00	1.60	1.20
SN65LBC176QDRQ1	296-16947-2-ND	Quad LP Differential Bus Transceiver	8-SOIC	2560.00/2,500		
SN65LBC179AD	296-9725-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	2.30	1.84	1.38
SN65LBC179AP	296-9726-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	2.30	1.84	1.38
SN65LBC179D	296-9727-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-SOIC	1.78	1.42	1.07
SN65LBC179P	296-9728-5-ND	LP Differential Line Driver/Rcvr. Pairs	8-Dip	1.78	1.42	1.07
SN65LBC180AD	296-9729-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOIC	2.54	2.04	1.59
SN65LBC180AN	296-9730-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	2.54	2.04	1.59
SN65LBC180D	296-9731-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-SOIC	2.20	1.76	1.32
SN65LBC180N	296-9732-5-ND	LP Differential Line Driver/Rcvr. Pairs	14-Dip	2.20	1.76	1.32
SN65LBC180RGVT	296-17365-1-ND	LP Differential Line Driver/Rcvr. Pairs	16-QFN	2.30	1.84	1.38
SN65LBC180RGVT	296-17365-2-ND	LP Differential Line Driver/Recvr Pairs	16-QFN	322.00/250		
SN65LBC180RSAT	296-19550-1-ND	LP Differential Line Driver/ Receiver Pair ***NEW!***	16-QFN	2.43	1.94	1.46
SN65LBC180RSAT	296-19550-2-ND	LP Differential Line Driver/ Receiver Pair ***NEW!***	16-QFN	339.50/250		

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65LBC182D	296-12167-5-ND	Differential Bus Transceiver	8-SOIC	2.20	1.76	1.32
SN65LBC182P	296-12734-5-ND	Differential Bus Transceiver	8-Dip	2.20	1.76	1.32
SN65LBC184D	296-9733-5-ND	Differential Xcvr. with TVS Protection	8-SOIC	2.93	2.34	1.82
SN65LBC184P	296-2343-5-ND	Differential Xcvr. with TVS Protection	8-Dip	2.93	2.34	1.82
SN65176BD	296-9693-5-ND	Differential Bus Transceiver	8-SOIC	.88	.66	.50
SN65176BP	296-1415-5-ND	Differential Bus Transceiver	8-Dip	.88	.66	.50
SN75HVD12P	296-14047-5-ND	3.3V RS-485 Transceiver	8-Dip	2.99	2.40	1.87
SN75HVD1176D	296-15346-5-ND	Profibus RS-485 Transceiver	8-SOIC	2.99	2.40	1.87
SN75LBC031D	296-6864-5-ND	High Speed Transceiver	8-SOIC	3.04	2.43	1.89
SN75LBC172DW	296-6865-5-ND	Quad LP Differential Line Driver	20-SOIC	3.13	2.51	1.95
SN75LBC172N	296-6866-5-ND	Quad LP Differential Line Driver	16-Dip	3.13	2.51	1.95
SN75LBC173D	296-6867-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.20	1.76	1.32
SN75LBC173N	296-6868-5-ND	Quad LP Differential Line Receiver	16-Dip	2.20	1.76	1.32
SN75LBC174DW	296-6869-5-ND	Quad LP Differential Line Driver	20-SOIC	3.31	2.65	2.06
SN75LBC174N	296-6870-5-ND	Quad LP Differential Line Driver	16-Dip	3.31	2.65	2.06
SN75LBC175D	296-6871-5-ND	Quad LP Differential Line Receiver	16-SOIC	2.10	1.68	1.26
SN75LBC175N	296-6872-5-ND	Quad LP Differential Line Receiver	16-Dip	2.10	1.68	1.26
SN75LBC176AD	296-6873-5-ND	Quad LP Differential Bus Transceiver	8-SOIC	2.30	1.84	1.38
SN75LBC176AP	296-6874-5-ND	Differential Bus Transceiver	8-Dip	2.30	1.84	1.38
SN75LBC176D	296-1279-5-ND	Differential Bus Transceiver	8-SOIC	1.78	1.42	1.07
SN75LBC176DR	296-1279-1-ND	Differential Bus Transceiver	8-SOIC	1.78	1.42	1.07
SN75LBC176DR	296-1279-2-ND	Differential Bus Transceiver	8-SOIC	2272.50/2,500		
SN75LBC176P	296-6875-5-ND	Differential Bus Transceiver	8-Dip	1.78	1.42	1.07
SN75LBC179AD	296-6876-5-ND	LP Differential Line Driver/Rcvr Pairs	8-SOIC	2.20	1.76	1.32
SN75LBC179AP	296-6877-5-ND	LP Differential Line Driver/Rcvr Pairs	8-Dip	2.20	1.76	1.32
SN75LBC179D	296-6878-5-ND	LP Differential Line Driver/Rcvr Pairs	8-SOIC	1.58	1.26	.95
SN75LBC179P	296-6879-5-ND	LP Differential Line Driver/Rcvr Pairs	8-Dip	1.58	1.26	.95
SN75LBC180AD	296-6880-5-ND	LP Differential Line Driver/Rcvr Pairs	14-SOIC	2.36	1.89	1.47
SN75LBC180AN	296-6881-5-ND	LP Differential Line Driver/Rcvr Pairs	14-Dip	2.36	1.89	1.47
SN75LBC180D	296-6882-5-ND	LP Differential Line Driver/Rcvr Pairs	14-SOIC	2.00	1.60	1.20
SN75LBC180N	296-6883-5-ND	LP Differential Line Driver/Rcvr Pairs	14-Dip	2.00	1.60	1.20
SN75LBC180RSAT	296-19552-1-ND	LP Differential Line Driver/ Receiver Pair ***NEW!***	16-QFN	2.43	1.94	1.46
SN75LBC180RSAT	296-19552-2-ND	LP Differentail Line Driver/ Receiver Pair ***NEW!***	16-QFN	339.50/250		
SN75LBC182D	296-11656-5-ND	Differential Bus Transceiver	8-SOIC	2.00	1.60	1.20
SN75LBC184D	296-2364-5-ND	Differential Xcvr. with TVS Protection	8-SOIC	2.70	2.16	1.68
SN75LBC184P	296-6884-5-ND	Differential Xcvr. with TVS Protection	8-Dip	2.70	2.16	1.68
SN75LBC187DBR	296-6885-1-ND	Multichannel EIA-232 Driver/Receiver	28-SSOP	4.50	3.60	2.80
SN75LBC187DBR	296-6885-2-ND	Multichannel EIA-232 Driver/Receiver	28-SSOP	5100.00/2,000		
SN75LBC241DW	296-6886-5-ND	Low Power LinBiCMOS Multiple Drivers and Receivers	28-SOIC	2.70	2.16	1.68
SN75LBC771DW	296-6887-5-ND	GeoPort™ Transceiver	20-SOIC	2.48	1.98	1.54
SN75LBC776DW	296-6890-5-ND	Single-Chip GeoPort™ Transceiver	20-SOIC	4.73	3.78	2.94
SN75LBC777DW	296-6891-5-ND	Single-Chip Geoport/AppleTalk™ Transceiver	20-SOIC	3.60	2.88	2.24
SN75LBC784DWR	296-6892-1-ND	Quad RS-423-B Driver/Receiver	28-SOIC	5.18	4.14	3.22
SN75LBC784DWR	296-6892-2-ND	Quad RS-423-B Driver/Receiver	28-SOIC	2933.00/1,000		
SN75LBC786DW	296-6893-5-ND	Quad RS-423-B Driver/Receiver with Loopback	28-SOIC	9.91	8.93	7.92
SN75LBC968DL	296-6894-5-ND	9-Channel Bus Transceiver with Active Termination	56-SSOP	15.99	14.40	12.77
SN75LBC978DLR	296-6895-1-ND	9-Channel Differential Transceiver	56-SSOP	23.10	21.56	20.02
SN75LBC978DLR	296-6895-2-ND	9-Channel Differential Transceiver	56-SSOP	19019.00/1,000		
SN75107AD	296-6799-5-ND	Dual Line Receiver	14-SOIC	1.25	1.00	.75
SN75107AN	296-6800-5-ND	Dual Line Receiver	14-Dip	1.25	1.00	.75
SN75107BD	296-6802-5-ND	Dual Line Receiver	14-SOIC	.80	.60	.45
SN75107BDR	296-14946-1-ND	Dual Line Receiver	14-SOIC	.80	.60	.45
SN75107BDR	296-14946-2-ND	Dual Line Receiver	14-SOIC	650.00/2,500		
SN75107BN	296-6803-5-ND	Dual Line Receiver	14-Dip	.80	.60	.45
SN75110AD	296-6804-5-ND	Dual Line Driver	14-SOIC	.80	.60	.45
SN75110ADR	296-14947-1-ND	Dual Line Driver	14-SOIC	.80	.60	.45
SN75110ADR	296-14947-2-ND	Dual Line Driver	14-SOIC	650.00/2,500		
SN75110AN	296-6805-5-ND	Dual Line Driver	14-Dip	.80	.60	.45
SN75112D	296-6806-5-ND	Dual Line Driver	14-SOIC	.99	.83	.66
SN75112DR	296-6806-1-ND	Dual Line Driver	14-SOIC	.99	.83	.66
SN75112DR	296-6806-2-ND	Dual Line Driver	14-SOIC	1072.50/2,500		
SN75112N	296-6807-5-ND	Dual Line Driver	14-Dip	.99	.83	.66
SN75113N	296-6809-5-ND	Dual Differential Line Driver	16-Dip	2.25	1.80	1.40
SN75114N	296-6811-5-ND	Dual Differential Line Driver	16-Dip	2.38	1.90	1.43
SN75115D	296-6812-5-ND	Dual Differential Line Receiver	16-SOIC	2.38	1.90	1.43
SN75115N	296-6813-5-ND	Dual Differential Line Receiver	16-Dip	2.38	1.90	1.43
SN75116N	296-6814-5-ND	Dual Differential Line Transceiver	16-Dip	3.49	2.79	2.17
SN75117P	296-6820-5-ND	Differential Line Transceiver	8-Dip	3.94	3.15	2.45
SN75118N	296-6821-5-ND	Differential Line Transceiver	16-Dip	4.05	3.24	2.52
SN75119P	296-6822-5-ND	Differential Line Transceiver	8-Dip	4.05	3.24	2.52
SN75121N	296-6823-5-ND	Dual Line Driver	16-Dip	2.25	1.80	1.35
SN75123N	296-6825-5-ND	Dual Line Driver	16-Dip	2.25	1.80	1.35
SN75124N	296-6826-5-ND	Triple Line Receiver	16-Dip	2.25	1.80	1.35
SN75138N	296-6828-5-ND	Quad Bus Transceiver	16-Dip	2.00	1.60	1.20
SN75140P	296-12184-5-ND	Dual Line Receiver	8-Dip	1.50	1.20	.90
SN75150D	296-6830-5-ND	Dual Line Driver	8-SOIC	1.20	1.00	.80
SN75150DR	296-14948-1-ND	Dual Line Driver	8-SOIC	1.20	1.00	.80
SN75150DR	296-14948-2-ND	Dual Line Driver	8-SOIC	1300.00/2,500		
SN75150P	296-6831-5-ND	Dual Line Driver	8-Dip	1.20	1.00	.80
SN75154D	296-6832-5-ND	Quad Differential Line Receiver	16-SOIC	1.20	1.00	.80
SN75154N	296-6833-5-ND	Quad Differential Line Receiver	16-Dip	1.20	1.00	.80
SN75155D	296-6835-5-ND	Line Driver and Receiver	8-SOIC	1.20	1.00	.80
SN75155DR	296-14949-1-ND	Line Driver and Receiver	8-SOIC	1.20	1.00	.80
SN75155DR	296-14949-2-ND	Line Driver and Receiver	8-SOIC	1300.00/2,500		
SN75155P	296-6836-5-ND	Line Driver and Receiver	8-Dip	1.20	1.00	.80
SN75157D	296-6837-5-ND	Dual Differential Line Receiver	8-SOIC	1.80	1.44	1.08
SN75157P	296-6838-5-ND	Dual Differential Line Receiver	8-Dip	1.80	1.44	1.08
SN75158D	296-6839-5-ND	Dual Differential Line Driver	8-SOIC	3.15	2.52	1.96
SN75158P	296-6840-5-ND	Dual Differential Line Driver	8-Dip	3.15	2.52	1.96
SN75158PSR	296-6841-1-ND	Dual Differential Line Driver	8-SOP	3.15	2.52	1.96
SN75158PSR	296-6841-2-ND	Dual Differential Line Driver	8-SOP	3570.00/2,000		
SN75159D	296-6842-5-ND	Dual Differential Line Driver	14-SOIC	2.70	2.16	1.68

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN75159N	296-6843-5-ND	Dual Differential Line Driver	14-Dip	2.70	2.16	1.68
SN75160BDW	296-6844-5-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.00	1.60	1.20
SN75160BDWR	296-14950-1-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.00	1.60	1.20
SN75160BDWR	296-14950-2-ND	Octal GP Interface Bus Transceiver	20-SOIC	2080.00/2,000		
SN75160BN	296-6845-5-ND	Octal GP Interface Bus Transceiver	20-Dip	2.00	1.60	1.20
SN75161BDW	296-6846-5-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.00	1.60	1.20
SN75161BDWR	296-14951-1-ND	Octal GP Interface Bus Transceiver	20-SOIC	2.00	1.60	1.20
SN75161BDWR	296-14951-2-ND	Octal GP Interface BusTransceiver	20-SOIC	2080.00/2,000		
SN75161BN	296-6847-5-ND	Octal GP Interface Bus Transceiver	20-Dip	2.00	1.60	1.20
SN75162BDW	296-6848-5-ND	Octal GP Interface Bus Transceiver	20-SOIC	4.73	3.78	2.94
SN75172DWR	296-14952-1-ND	Quad Differential Line Driver	20-SOIC	1.83	1.46	1.10
SN75172DWR	296-14952-2-ND	Quad Differential Line Driver	20-SOIC	1898.00/2,000		
SN75172N	296-6850-5-ND	Quad Differential Line Driver	16-Dip	1.83	1.46	1.10
SN751730D	296-6851-5-ND	Triple Line Driver/Receiver	16-SOIC	4.05	3.24	2.52
SN751730N	296-6852-5-ND	Triple Line Driver/Receiver	16-Dip	4.05	3.24	2.52
SN75173D	296-6853-5-ND	Quad Differential Line Receiver	16-SOIC	1.83	1.46	1.10
SN75173DR	296-14953-1-ND	Quad Differential Line Receiver	16-SOIC	1.83	1.46	1.10
SN75173DR	296-14953-2-ND	Quad Differential Line Receiver	16-SOIC	2335.00/2,500		
SN75173N	296-6854-5-ND	Quad Differential Line Receiver	16-Dip	1.83	1.46	1.10
SN75174DWR	296-6855-1-ND	Quad Differential Line Driver	20-SOIC	1.55	1.24	.93
SN75174DWR	296-6855-2-ND	Quad Differential Line Driver	20-SOIC	1612.00/2,000		
SN75174N	296-1735-5-ND	Quad Differential Line Driver	16-Dip	1.30	1.04	.78
SN75175D	296-6856-5-ND	Quad Differential Line Receiver	16-SOIC	1.30	1.04	.78
SN75175DR	296-14954-1-ND	Quad Differential Line Receiver	16-SOIC	1.30	1.04	.78
SN75175DR	296-14954-2-ND	Quad Differential Line Receiver	16-SOIC	1665.00/2,500		
SN75175N	296-1736-5-ND	Quad Differential Line Receiver	16-Dip	1.30	1.04	.78
SN75176AD	296-6857-5-ND	Differential Bus Transceiver	8-SOIC	.80	.60	.45
SN75176ADR	296-14955-1-ND	Differential Bus Transceiver	8-SOIC	.80	.60	.45
SN75176ADR	296-14955-2-ND	Differential Bus Transceiver	8-SOIC	650.00/2,500		
SN75176AP	296-1737-5-ND	Differential Bus Transceiver	8-Dip	.80	.60	.45
SN75176BD	296-1275-5-ND	Differential Bus Transceiver	8-SOIC	.80	.60	.45
SN75176BDR	296-1275-1-ND	Differential Bus Transceiver	8-SOIC	.80	.60	.45
SN75176BDR	296-1275-2-ND	Differential Bus Transceiver	8-SOIC	650.00/2,500		
SN75176BP	296-1739-5-ND	Differential Bus Transceiver	8-Dip	.80	.60	.45
SN75178BP	296-6858-5-ND	Differential Bus Repeaters	8-Dip	2.25	1.80	1.35
SN75179BD	296-6860-5-ND	Differential Driver/Receiver Pair	8-SOIC	1.29	1.08	.86
SN75179BDR	296-14956-1-ND	Differential Driver/Receiver Pair	8-SOIC	1.29	1.08	.86
SN75179BDR	296-14956-2-ND	Differential Driver/Receiver Pair	8-SOIC	1397.50/2,500		
SN75179BP	296-6861-5-ND	Differential Driver/Receiver Pair	8-Dip	1.29	1.08	.86
SN75182N	296-6862-5-ND	Dual Differential Line Receiver	14-Dip	1.25	1.00	.75
SN75183N	296-6863-5-ND	Quad Differential Line Driver	14-Dip	2.63	2.11	1.64
SN75189DR	296-14957-1-ND	Quad Line Receiver	14-SOIC	.48	.36	.27
SN75189DR	296-14957-2-ND	Quad Line Receiver	14-SOIC	390.00/2,500		
SN75976A1DGG	296-9925-5-ND	9-Channel RS-485 Diff. Transceiver	56-TSSOP	16.13	15.05	13.98
SN75976A1DL	296-9926-5-ND	9-Channel RS-485 Diff. Transceiver	56-SSOP	16.13	15.05	13.98
SN75976A2DGG	296-2363-5-ND	9-Channel RS-485 Diff. Transceiver	56-TSSOP	22.20	20.72	19.24
SN751177N	296-6816-5-ND	Dual Differential Driver/Receiver	16-Dip	4.84	3.87	3.01
SN751177NSR	296-6817-1-ND	Dual Differential Driver/Receiver	16-SOP	4.39	3.51	2.73
SN751177NSR	296-6817-2-ND	Dual Differential Driver/Receiver	16-SOP	4972.00/2,000		
SN751178N	296-6818-5-ND	Dual Differential Driver/Receiver	16-Dip	4.84	3.87	3.01
SN751178NSR	296-6819-1-ND	Dual Differential Driver/Receiver	16-SOP	4.39	3.51	2.73
SN751178NSR	296-6819-2-ND	Dual Differential Driver/Receiver	16-SOP	4972.00/2,000		
TL3695DR	296-15009-1-ND	Differential Bus Transceiver	8-SOIC	1.25	1.00	.75
TL3695DR	296-15009-2-ND	Differential Bus Transceiver	8-SOIC	1600.00/2,500		
TL3695P	296-10172-5-ND	Differential Bus Transceiver	8-Dip	1.25	1.00	.75
UA9637ACD	296-11149-5-ND	Dual Differential Line Receiver	8-SOIC	.75	.63	.50
UA9639CP	296-11150-5-ND	Dual Differential Line Receiver	8-Dip	.90	.75	.60

RS-232

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
GD75232DBR	296-6947-1-ND	Multiple RS-232 Driver/Receiver	20-SSOP	.60	.45	.34
GD75232DBR	296-6947-2-ND	Multiple RS-232 Driver/Receiver	20-SSOP	400.00/2,000		
GD75232DW	296-6948-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.60	.45	.34
GD75232DWR	296-6948-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.60	.45	.34
GD75232DWR	296-6948-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC	400.00/2,000		
GD75232PWR	296-6950-1-ND	Multiple RS-232 Driver/Receiver	20-TSSOP	.60	.45	.34
GD75232PWR	296-6950-2-ND	Multiple RS-232 Driver/Receiver	20-TSSOP	400.00/2,000		
GD75323DW	296-6951-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.92	.69	.52
LT1030CD	296-9589-5-ND	Quad Low Power Line Driver	14-SOIC	2.00	1.60	1.20
LT1030CN	296-1401-5-ND	Quad Low Power Line Driver	14-Dip	2.00	1.60	1.20
MAX202CDR	296-18480-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	.96	.80	.64
MAX202CDR	296-18480-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	1040.00/2,500		
MAX202CDWR	296-18481-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	.96	.80	.64
MAX202CDWR	296-18481-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	852.00/2,000		
MAX202CPWR	296-18482-1-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	.96	.80	.64
MAX202CPWR	296-18482-2-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	852.00/2,000		
MAX202IDR	296-18483-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	1.02	.85	.68
MAX202IDR	296-18483-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	1105.00/2,500		
MAX202IDWR	296-18484-1-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	1.02	.85	.68
MAX202IDWR	296-18484-2-ND	5V Dual RS-232 Line Driver/Receiver	16-SOIC	904.00/2,000		
MAX202IPWR	296-18485-1-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	1.02	.85	.68
MAX202IPWR	296-18485-2-ND	5V Dual RS-232 Line Driver/Receiver	16-TSSOP	904.00/2,000		
MAX207CDBR	296-18486-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1.50	1.20	.90
MAX207CDBR	296-18486-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1560.00/2,000		
MAX207CDWR	296-18487-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1.50	1.20	.90
MAX207CDWR	296-18487-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1560.00/2,000		
MAX207IDBR	296-18488-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1.63	1.30	.98
MAX207IDBR	296-18488-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1690.00/2,000		
MAX207IDWR	296-18489-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1.63	1.30	.98
MAX207IDWR	296-18489-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1690.00/2,000		
MAX208CDBR	296-18490-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1.50	1.20	.90
MAX208CDBR	296-18490-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1560.00/2,000		
MAX208CDWR	296-18491-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1.50	1.20	.90
MAX208CDWR	296-18491-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1560.00/2,000		
MAX208IDBR	296-18492-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1.63	1.30	.98
MAX208IDBR	296-18492-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SSOP	1690.00/2,000		
MAX208IDWR	296-18493-1-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1.63	1.30	.98
MAX208IDWR	296-18493-2-ND	5V Multichannel RS-232 Line Driver/Receiver	24-SOIC	1690.00/2,000		
MAX211CDBR	296-18494-1-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1.50	1.20	.90
MAX211CDBR	296-18494-2-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SSOP	1560.00/2,000		
MAX211CDWR	296-18495-1-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.63	1.30	.98
MAX211CDWR	296-18495-2-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	845.00/1,000		
MAX211IDBR	296-15170-1-ND	5V, Multiple RS-232 Line Driver/Receiver	28-SSOP	1.63	1.30	.98
MAX211IDBR	296-15170-2-ND	5V, Multiple RS-232 Line Driver/Receiver	28-SSOP	1690.00/2,000		
MAX211IDWR	296-18496-1-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	1.63	1.30	.98
MAX211IDWR	296-18496-2-ND	5V Multichannel RS-232 Line Driver/Receiver	28-SOIC	845.00/1,000		
MAX222CDWR	296-18497-1-ND	5V Dual RS-232 Line Driver/Receiver	18-SOIC	1.75	1.40	1.05
MAX222CDWR	296-18497-2-ND	5V Dual RS-232 Line Driver/Receiver	18-SOIC	1820.00/2,000		
MAX222IDWR	296-17256-1-ND	5V, Dual RS-232 Line Driver/Receiver	18-SOIC	1.88	1.50	1.13
MAX222IDWR	296-17256-2-ND	5V, Dual RS-232 Line Driver/Receiver	18-SOIC	1950.00/2,000		
MAX232D	296-6936-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.90	.75	.60
MAX232DR	296-14619-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	.90	.75	.60
MAX232DR	296-14619-2-ND	Dual RS-232 Driver/Receiver	16-SOIC	975.00/2,500		
MAX232DW	296-6937-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.90	.75	.60
MAX232DWR	296-14620-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	.90	.75	.60
MAX232DWR	296-14620-2-ND	Dual RS-232 Driver/Receiver	16-SOIC	798.00/2,000		
MAX232ID	296-6938-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.96	.80	.64
MAX232IDW	296-6939-5-ND	Dual EIA-232 Driver/Receiver	16-SOIC	.96	.80	.64
MAX232IDWR	296-14621-1-ND	Dual RS-232 Driver/Receiver	16-SOIC	.96	.80	.64
MAX232IDWR	296-14621-2-ND	Dual RS-232 Driver/Receiver	16-SOIC	852.00/2,000		
MAX232IN	296-6940-5-ND	Dual EIA-232 Driver/Receiver	16-Dip	.96	.80	.64
MAX232N	296-1402-5-ND	Dual EIA-232 Driver/Receiver	16-Dip	.90	.75	.60
MAX232NSR	296-15895-1-ND	Dual EIA-232 Driver/Receiver	16-SOP	.90	.75	.60
MAX232NSR	296-15895-2-ND	Dual EIA-232 Driver/Receiver	16-SOP	798.00/2,000		
MAX3221CDBR	296-9593-1-ND	1-Channel, RS-232 Driver/Receiver	16-SSOP	1.38	1.10	.83
MAX3221CDBR	296-9593-2-ND	1-Channel, RS-232 Driver/Receiver	16-SSOP	1430.00/2,000		
MAX3221CPWR	296-9594-1-ND	1-Channel, RS-232 Driver/Receiver	16-TSSOP	1.38	1.10	.83
MAX3221CPWR	296-9594-2-ND	1-Channel, RS-232 Driver/Receiver	16-TSSOP	1430.00/2,000		
MAX3221EIPWR	296-19383-1-ND	1-Channel, RS-232 Driver/Receiver ***NEW!***	16-TSSOP	7.80	5.85	4.23
MAX3221EIPWR	296-19383-2-ND	1-Channel, RS-232 Driver/Receiver ***NEW!***	16-TSSOP	3510.00/2,000		
MAX3221IDBR	296-9595-1-ND	1-Channel, RS-232 Driver/Receiver	16-SSOP	1.50	1.20	.90
MAX3221IDBR	296-9595-2-ND	1-Channel, RS-232 Driver/Receiver	16-SSOP	1560.00/2,000		
MAX3221IPWR	296-9596-1-ND	1-Channel, RS-232 Driver/Receiver	16-TSSOP	1.50	1.20	.90
MAX3221IPWR	296-9596-2-ND	1-Channel, RS-232 Driver/Receiver	16-TSSOP	1560.00/2,000		
MAX3222CDBR	296-13082-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.13	1.70	1.28
MAX3222CDBR	296-13082-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2210.00/2,000		
MAX3222CDWR	296-13083-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.13	1.70	1.28
MAX3222CDWR	296-13083-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2210.00/2,000		
MAX3222CPWR	296-13084-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.13	1.70	1.28
MAX3222CPWR	296-13084-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2210.00/2,000		
MAX3222IDBR	296-13085-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.25	1.80	1.35
MAX3222IDBR	296-13085-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SSOP	2340.00/2,000		
MAX3222IDWR	296-13086-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.13	1.70	1.28
MAX3222IDWR	296-13086-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-SOIC	2340.00/2,000		
MAX3222IPWR	296-13087-1-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.25	1.80	1.35
MAX3222IPWR	296-13087-2-ND	3-5.5V, Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2340.00/2,000		
MAX3223CDBR	296-13088-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1.75	1.40	1.05
MAX3223CDBR	296-13088-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	1820.00/2,000		
MAX3223CDWR	296-13445-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1.75	1.40	1.05
MAX3223CDWR	296-13445-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	1820.00/2,000		
MAX3223CPWR	296-13089-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1.75	1.40	1.05
MAX3223CPWR	296-13089-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	1820.00/2,000		
MAX3223IDBR	296-13090-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2.13	1.70	1.28

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MAX3223IDBR	296-13090-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SSOP	2210.00/2,000		
MAX3223IDWR	296-13091-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2.13	1.70	1.28
MAX3223IDWR	296-13091-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-SOIC	2210.00/2,000		
MAX3223IPWR	296-13092-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2.13	1.70	1.28
MAX3223IPWR	296-13092-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	20-TSSOP	2210.00/2,000		
MAX3232CDBR	296-13093-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1.75	1.40	1.05
MAX3232CDBR	296-13093-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1560.00/2,000		
MAX3232CDR	296-13094-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.50	1.20	.90
MAX3232CDR	296-13094-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1920.00/2,500		
MAX3232CDWR	296-13095-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.50	1.20	.90
MAX3232CDWR	296-13095-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1560.00/2,000		
MAX3232CPWR	296-13096-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1.75	1.40	1.05
MAX3232CPWR	296-13096-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1820.00/2,000		
MAX3232ECPWR	296-19263-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1.63	1.30	.98
MAX3232ECPWR	296-19263-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1690.00/2,000		
MAX3232EIPWR	296-19436-1-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-TSSOP	1.75	1.40	1.05
MAX3232EIPWR	296-19436-2-ND	3V-5.5V Multichannel RS-232 Line Driver/Receiver ***NEW!***	16-TSSOP	1820.00/2,000		
MAX3232IDBR	296-13097-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1.63	1.30	.98
MAX3232IDBR	296-13097-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SSOP	1690.00/2,000		
MAX3232IDR	296-13098-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.63	1.30	.98
MAX3232IDR	296-13098-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	2400.00/2,500		
MAX3232IDWR	296-13099-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1.88	1.50	1.13
MAX3232IDWR	296-13099-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-SOIC	1950.00/2,000		
MAX3232IPWR	296-13100-1-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1.88	1.50	1.13
MAX3232IPWR	296-13100-2-ND	3-5.5V Multichannel RS-232 Line Driver/Receiver	16-TSSOP	1690.00/2,000		
MAX3238CDBR	296-9597-1-ND	Multichannel RS-232 Driver/Rcvr.	28-SSOP	1.88	1.50	1.13
MAX3238CDBR	296-9597-2-ND	Multichannel RS-232 Driver/Rcvr.	28-SSOP	1950.00/2,000		
MAX3238CPWR	296-9598-1-ND	Multichannel RS-232 Driver/Rcvr.	28-TSSOP	1.88	1.50	1.13
MAX3238CPWR	296-9598-2-ND	Multichannel RS-232 Driver/Rcvr.	28-TSSOP	1950.00/2,000		
MAX3238IDBR	296-9599-1-ND	Multichannel RS-232 Driver/Rcvr.	28-SSOP	2.13	1.70	1.28
MAX3238IDBR	296-9599-2-ND	Multichannel RS-232 Driver/Rcvr.	28-SSOP	2210.00/2,000		
MAX3238IDBRQ1	296-15187-1-ND	Multichannel RS-232 Driver/Rcvr.	28-SSOP	2.23	1.78	1.34
MAX3238IDBRQ1	296-15187-2-ND	Multichannel RS-232 Driver/Rcvr.	28-SSOP	2314.00/2,000		
MAX3238IPWR	296-9600-1-ND	Multichannel RS-232 Driver/Rcvr.	28-TSSOP	2.13	1.70	1.28
MAX3238IPWR	296-9600-2-ND	Multichannel RS-232 Driver/Rcvr.	28-TSSOP	2210.00/2,000		
MAX3238IPWRQ1	296-15189-1-ND	Multichannel RS-232 Driver/Rcvr.	28-TSSOP	2.23	1.78	1.34
MAX3238IPWRQ1	296-15189-2-ND	Multichannel RS-232 Driver/Rcvr.	28-TSSOP	2314.00/2,000		
MAX3243CDBR	296-6941-1-ND	Multiple RS-232 Driver/Receiver	28-SSOP	1.38	1.10	.83
MAX3243CDBR	296-6941-2-ND	Multiple RS-232 Driver/Receiver	28-SSOP	1430.00/2,000		
MAX3243CDWR	296-6942-1-ND	Multiple RS-232 Driver/Receiver	28-SOIC	1.38	1.10	.83
MAX3243CDWR	296-6942-2-ND	Multiple RS-232 Driver/Receiver	28-SOIC	715.00/1,000		
MAX3243CPW	296-6943-5-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1.38	1.10	.83
MAX3243CPWR	296-6943-1-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1.38	1.10	.83
MAX3243CPWR	296-6943-2-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1430.00/2,000		
MAX3243IDBR	296-6944-1-ND	Multiple RS-232 Driver/Receiver	28-SSOP	1.50	1.20	.90
MAX3243IDBR	296-6944-2-ND	Multiple RS-232 Driver/Receiver	28-SSOP	1560.00/2,000		
MAX3243IDWR	296-6945-1-ND	Multiple RS-232 Driver/Receiver	28-SOIC	1.50	1.20	.90
MAX3243IDWR	296-6945-2-ND	Multiple RS-232 Driver/Receiver	28-SOIC	780.00/1,000		
MAX3243IPWR	296-6946-1-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1.50	1.20	.90
MAX3243IPWR	296-6946-2-ND	Multiple RS-232 Driver/Receiver	28-TSSOP	1560.00/2,000		
MC1488N	296-1404-5-ND	Quad Line Driver	14-Dip	.55	.44	.33
MC1489AN	296-9602-5-ND	Quad Line Receiver	14-Dip	.64	.48	.36
MC1489N	296-1405-5-ND	Quad Line Receiver	14-Dip	.56	.42	.32
SN65C1154N	296-11855-5-ND	Quad Low Power Driver/Receiver	20-Dip	4.28	3.42	2.66
SN65C3221DBR	296-13116-1-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	2.97	2.38	1.85
SN65C3221DBR	296-13116-2-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-SSOP	3366.00/2,000		
SN65C3221PWR	296-13117-1-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2.97	2.38	1.85
SN65C3221PWR	296-13117-2-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	3366.00/2,000		
SN65C3222DBR	296-15371-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	4.05	3.24	2.52
SN65C3222DBR	296-15371-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	4590.00/2,000		
SN65C3222DWR	296-15372-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	4.05	3.24	2.52
SN65C3222DWR	296-15372-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	4590.00/2,000		
SN65C3222PWR	296-15373-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	4.05	3.24	2.52
SN65C3222PWR	296-15373-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	4590.00/2,000		
SN65C3223DBR	296-13486-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	3.51	2.81	2.19
SN65C3223DBR	296-13486-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	3978.00/2,000		
SN65C3223DWR	296-13487-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	3.51	2.81	2.19
SN65C3223DWR	296-13487-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	3978.00/2,000		
SN65C3223PWR	296-13488-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	3.51	2.81	2.19
SN65C3223PWR	296-13488-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	3978.00/2,000		
SN65C3232DBR	296-15374-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SSOP	3.78	3.03	2.36
SN65C3232DBR	296-15374-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SSOP	4284.00/2,000		
SN65C3232DR	296-15375-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC	3.78	3.03	2.36
SN65C3232DR	296-15375-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC	5292.50/2,500		
SN65C3232DWR	296-15376-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC	3.78	3.03	2.36
SN65C3232DWR	296-15376-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC	4284.00/2,000		
SN65C3232PWR	296-15377-1-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-TSSOP	3.78	3.03	2.36
SN65C3232PWR	296-15377-2-ND	3-5.5V Multichannel Compatible RS-232 Line Driver/Receiver	16-TSSOP	4284.00/2,000		
SN65C3238DBR	296-12733-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4.05	3.24	2.52
SN65C3238DBR	296-12733-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4590.00/2,000		
SN65C3238DWR	296-13118-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	4.05	3.24	2.52
SN65C3238DWR	296-13118-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	2295.00/1,000		
SN65C3238PWR	296-13119-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4.05	3.24	2.52
SN65C3238PWR	296-13119-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4590.00/2,000		
SN65C3243DBR	296-13120-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4.32	3.46	2.69
SN65C3243DBR	296-13120-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	4896.00/2,000		
SN65C3243DWR	296-13121-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	4.32	3.46	2.69
SN65C3243DWR	296-13121-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	2448.00/1,000		
SN65C3243PWR	296-13122-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4.32	3.46	2.69
SN65C3243PWR	296-13122-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4896.00/2,000		
SN65C23243DGGR	296-13114-1-ND	3-5.5V, Dual RS-232 Port	48-TSSOP	5.40	4.32	3.36
SN65C23243DGGR	296-13114-2-ND	3-5.5V, Dual RS-232 Port	48-TSSOP	6120.00/2,000		
SN65C23243DLR	296-13115-1-ND	3-5.5V, Dual RS-232 Port	48-SSOP	5.40	4.32	3.36
SN65C23243DLR	296-13115-2-ND	3-5.5V, Dual RS-232 Port	48-SSOP	3060.00/1,000		
SN75C185DW	296-1753-5-ND	Low Power Multiple Driver/Receiver	20-SOIC	1.50	1.20	.90
SN75C185DWR	296-14972-1-ND	Low Power Multiple Driver/Receiver	20-SOIC	1.50	1.20	.90
SN75C185DWR	296-14972-2-ND	Low Power Multiple Driver/Receiver	20-SOIC	1560.00/2,000		
SN75C185N	296-9974-5-ND	Low Power Multiple Driver/Receiver	20-Dip	1.50	1.20	.90
SN75C188D	296-6965-5-ND	Quad Low Power Line Driver	14-SOIC	.68	.51	.39
SN75C188DBR	296-6966-1-ND	Quad Low Power Line Driver	14-SSOP	.68	.51	.39
SN75C188DBR	296-6966-2-ND	Quad Low Power Line Driver	14-SSOP	452.00/2,000		
SN75C188DR	296-14973-1-ND	Quad Low Power Line Driver	14-SOIC	.68	.51	.39
SN75C188DR	296-14973-2-ND	Quad Low Power Line Driver	14-SOIC	552.50/2,500		
SN75C188N	296-1754-5-ND	Quad Low Power Line Driver	14-Dip	.68	.51	.39
SN75C189AD	296-1755-5-ND	Quad Low Power Line Receiver	14-SOIC	.68	.51	.39
SN75C189ADBR	296-6967-1-ND	Quad Low Power Line Receiver	14-SSOP	.68	.51	.39
SN75C189ADBR	296-6967-2-ND	Quad Low Power Line Receiver	14-SSOP	452.00/2,000		
SN75C189ADR	296-14974-1-ND	Quad Low Power Line Receiver	14-SOIC	.68	.51	.39
SN75C189ADR	296-14974-2-ND	Quad Low Power Line Receiver	14-SOIC	552.50/2,500		
SN75C189AN	296-1756-5-ND	Quad Low Power Line Receiver	14-Dip	.68	.51	.39
SN75C189D	296-6968-5-ND	Quad Low Power Line Receiver	14-SOIC	.68	.51	.39
SN75C189DR	296-14975-1-ND	Quad Low Power Line Receiver	14-SOIC	.68	.51	.39
SN75C189DR	296-14975-2-ND	Quad Low Power Line Receiver	14-SOIC	552.50/2,500		
SN75C189N	296-6969-5-ND	Quad Low Power Line Receiver	14-Dip	.68	.51	.39
SN75C198D	296-6970-5-ND	Quad Low Power Line Drivers	14-SOP	2.81	2.25	1.75
SN75C1154DW	296-6958-5-ND	Quad Low Power Driver/Receiver	20-SOIC	1.26	1.05	.84
SN75C1154N	296-6959-5-ND	Quad Low Power Driver/Receiver	20-Dip	1.26	1.05	.84
SN75C1167DBR	296-6960-1-ND	Dual Differential Driver/Receiver	16-SOIC	1.25	1.00	.75
SN75C1167DBR	296-6960-2-ND	Dual Differential Driver/Receiver	16-SOIC	1300.00/2,000		
SN75C1167N	296-6961-5-ND	Dual Differential Driver/Receiver	16-Dip	1.25	1.00	.75
SN75C1167NSR	296-6962-1-ND	Dual Differential Driver/Receiver	16-SOP	1.25	1.00	.75
SN75C1167NSR	296-6962-2-ND	Dual Differential Driver/Receiver	16-SOP	1300.00/2,000		
SN75C1168N	296-6963-5-ND	Dual Differential Driver/Receiver	16-Dip	1.25	1.00	.75
SN75C1168NSR	296-6964-1-ND	Dual Differential Driver/Receiver	16-SOP	1.50	1.20	.90
SN75C1168NSR	296-6964-2-ND	Dual Differential Driver/Receiver	16-SOP	1560.00/2,000		
SN75C1168PWR	296-14971-1-ND	Dual Differential Driver/Receiver	16-TSSOP	1.25	1.00	.75
SN75C1168PWR	296-14971-2-ND	Dual Differential Driver/Receiver	16-TSSOP	1300.00/2,000		
SN75C1406D	296-12934-5-ND	Triple Low Power Driver/Receiver	16-SOIC	1.44	1.20	.96
SN75C1406DW	296-1751-5-ND	Triple Low Power Driver/Receiver	16-SOIC	1.44	1.20	.96
SN75C1406DWR	296-1751-1-ND	Triple Low Power Driver/Receiver	16-SOIC	1.44	1.20	.96
SN75C1406DWR	296-1751-2-ND	Triple Low Power Driver/Receiver	16-SOIC	1276.00/2,000		
SN75C1406N	296-1752-5-ND	Triple Low Power Driver/Receiver	16-Dip	1.44	1.20	.96
SN75C3221DBR	296-13322-1-ND	3-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	2.43	1.95	1.52
SN75C3221DBR	296-13322-2-ND	3-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-SSOP	2754.00/2,000		
SN75C3221PWR	296-13323-1-ND	3-5.5V, Single Channel RS-232 Compatible Line Driver/Receiver	16-TSSOP	2.43	1.95	1.52
SN75C3221PWR	296-13323-2-ND	3-5.5V, Single Channel Compatible RS-232 Line Driver/Receiver	16-TSSOP	2754.00/2,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN75C3222DBR	296-15613-1-ND	RS-232 Compatible Line Driver/Receiver	20-SSOP	3.51	2.81	2.19
SN75C3222DBR	296-15613-2-ND	RS-232 Compatible Line Driver/Receiver	20-SSOP	3978.00/2,000		
SN75C3222DWR	296-13040-1-ND	RS-232 Compatible Line Driver/Receiver	20-SOIC	3.51	2.81	2.19
SN75C3222DWR	296-13040-2-ND	RS-232 Compatible Line Driver/Receiver	20-SOIC	3978.00/2,000		
SN75C3222PWR	296-14342-1-ND	RS-232 Compatible Line Driver/Receiver	20-TSSOP	3.51	2.81	2.19
SN75C3222PWR	296-14342-2-ND	RS-232 Compatible Line Driver/Receiver	20-TSSOP	3978.00/2,000		
SN75C3223DBR	296-13499-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	2.97	2.38	1.85
SN75C3223DBR	296-13499-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-SSOP	3366.00/2,000		
SN75C3223DWR	296-13500-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	2.97	2.38	1.85
SN75C3223DWR	296-13500-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-SOIC	3366.00/2,000		
SN75C3223PWR	296-13501-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	2.97	2.38	1.85
SN75C3223PWR	296-13501-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	20-TSSOP	3366.00/2,000		
SN75C3232DBR	296-15614-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	16-SSOP	3.49	2.79	2.17
SN75C3232DBR	296-15614-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	16-SSOP	3952.00/2,000		
SN75C3232DR	296-15615-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC	3.49	2.79	2.17
SN75C3232DR	296-15615-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC	4882.50/2,500		
SN75C3232DWR	296-15616-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC	3.49	2.79	2.17
SN75C3232DWR	296-15616-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	16-SOIC	3952.00/2,000		
SN75C3232PWR	296-15617-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	16-TSSOP	3.49	2.79	2.17
SN75C3232PWR	296-15617-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	16-TSSOP	3952.00/2,000		
SN75C3238DBR	296-12743-1-ND	RS-232 Line Driver/Receiver	28-SSOP	3.51	2.81	2.19
SN75C3238DBR	296-12743-2-ND	RS-232 Line Driver/Receiver	28-SSOP	3978.00/2,000		
SN75C3238DWR	296-13324-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	3.51	2.81	2.19
SN75C3238DWR	296-13324-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	1989.00/1,000		
SN75C3238PWR	296-13325-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	3.51	2.81	2.19
SN75C3238PWR	296-13325-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	3978.00/2,000		
SN75C3243DBR	296-13326-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	3.24	2.60	2.02
SN75C3243DBR	296-13326-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SSOP	3672.00/2,000		
SN75C3243DWR	296-13327-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	3.24	2.60	2.02
SN75C3243DWR	296-13327-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-SOIC	1836.00/1,000		
SN75C3243PWR	296-13058-1-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	3.24	2.60	2.02
SN75C3243PWR	296-13058-2-ND	3-5.5V, Multichannel Compatible RS-232 Line Driver/Receiver	28-TSSOP	4148.00/2,000		
SN75C23243DGGR	296-13320-1-ND	3-5.5V, Dual RS-232 Port	48-TSSOP	4.28	3.42	2.66
SN75C23243DGGR	296-13320-2-ND	3-5.5V, Dual RS-232 Port	48-TSSOP	4846.00/2,000		
SN75C23243DLR	296-13321-1-ND	3-5.5V, Dual RS-232 Port	48-SSOP	4.28	3.42	2.66
SN75C23243DLR	296-13321-2-ND	3-5.5V, Dual RS-232 Port	48-SSOP	2423.00/1,000		
SN75LP196DBR	296-6974-1-ND	LP Multiple RS-232 Driver/Receiver	20-SSOP	2.48	1.98	1.49
SN75LP196DBR	296-6974-2-ND	LP Multiple RS-232 Driver/Receiver	20-SSOP	2574.00/2,000		
SN75LP196DWR	296-6975-1-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	2.48	1.98	1.49
SN75LP196DWR	296-6975-2-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	2574.00/2,000		
SN75LP1185DBR	296-6971-1-ND	LP Multiple RS-232 Driver/Receiver	20-SSOP	2.48	1.98	1.49
SN75LP1185DBR	296-6971-2-ND	LP Multiple RS-232 Driver/Receiver	20-SSOP	2574.00/2,000		
SN75LP1185DW	296-6972-5-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	2.48	1.98	1.49
SN75LP1185DWR	296-6972-1-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	2.48	1.98	1.49
SN75LP1185DWR	296-6972-2-ND	LP Multiple RS-232 Driver/Receiver	20-SOIC	2574.00/2,000		
SN75LPE185DBR	296-6976-1-ND	LP Multiple RS-232 Driver/Receiver	24-SSOP	2.36	1.89	1.47
SN75LPE185DBR	296-6976-2-ND	LP Multiple RS-232 Driver/Receiver	24-SSOP	2678.00/2,000		
SN75LPE185DW	296-1759-5-ND	LP Multiple RS-232 Driver/Receiver	24-SOIC	2.36	1.89	1.47
SN75LV4737ADBR	296-6977-1-ND	Multichannel RS-232 Line Driver/Receiver with Enable	28-SSOP	3.26	2.61	2.03
SN75LV4737ADBR	296-6977-2-ND	Multichannel RS-232 Line Driver/Receiver with Enable	28-SSOP	3698.00/2,000		
SN75113NSR	296-13312-1-ND	Dual Differential Line Driver	16-SOP	2.25	1.80	1.40
SN75113NSR	296-13312-2-ND	Dual Differential Line Driver	16-SOP	2550.00/2,000		
SN75116NSR	296-13313-1-ND	Tri-State Differential Line Transceiver	16-SOP	3.49	2.79	2.17
SN75116NSR	296-13313-2-ND	Tri-State Differential Line Transceiver	16-SOP	3952.00/2,000		
SN75121NSR	296-13314-1-ND	High Speed Dual Line Driver	16-SOP	2.25	1.80	1.35
SN75121NSR	296-13314-2-ND	High Speed Dual Line Driver	16-SOP	2340.00/2,000		
SN75154NSR	296-13315-1-ND	Quad Line Receiver	16-SOP	1.20	1.00	.80
SN75154NSR	296-13315-2-ND	Quad Line Receiver	16-SOP	1064.00/2,000		
SN75185DBR	296-18833-1-ND	Multiple RS-232 Driver/Receiver	20-SSOP	.75	.63	.50
SN75185DBR	296-18833-2-ND	Multiple RS-232 Driver/Receiver	20-SSOP	666.00/2,000		
SN75185DW	296-1740-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.75	.63	.50
SN75185DWR	296-1740-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.75	.63	.50
SN75185DWR	296-1740-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC	666.00/2,000		
SN75185N	296-6953-5-ND	Multiple RS-232 Driver/Receiver	20-Dip	.75	.63	.50
SN75186DW	296-6954-5-ND	Quad Driver/Receiver with Loopback	24-SOIC	2.25	1.80	1.40
SN75188D	296-1276-5-ND	Quad Line Driver	14-SOIC	.48	.36	.27
SN75188DR	296-1276-1-ND	Quad Line Driver	14-SOIC	.48	.36	.27
SN75188DR	296-1276-2-ND	Quad Line Driver	14-SOIC	390.00/2,500		
SN75188N	296-1742-5-ND	Quad Line Driver	14-Dip	.48	.36	.27
SN75189AD	296-1277-5-ND	Quad Line Receiver	14-SOIC	.48	.36	.27
SN75189ADR	296-1277-1-ND	Quad Line Receiver	14-SOIC	.48	.36	.27
SN75189ADR	296-1277-2-ND	Quad Line Receiver	14-SOIC	390.00/2,500		
SN75189AN	296-1744-5-ND	Quad Line Receiver	14-Dip	.48	.36	.27
SN75189D	296-1745-5-ND	Quad Line Receiver	14-SOIC	.48	.36	.27
SN75189N	296-6955-5-ND	Quad Line Receiver	14-Dip	.48	.36	.27
SN75196DW	296-6956-5-ND	Multiple RS-232 Driver/Receiver	20-SOIC	1.14	.95	.76
SN75196DWR	296-12930-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	1.14	.95	.76
SN75196DWR	296-12930-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC	1010.00/2,000		
SN75196N	296-6957-5-ND	Multiple RS-232 Driver/Receiver	20-Dip	1.14	.95	.76
SN75451BPSR	296-13316-1-ND	Dual Peripheral Driver	8-SOP	.80	.60	.45
SN75451BPSR	296-13316-2-ND	Dual Peripheral Driver	8-SOP	532.00/2,000		
SN75454BPSR	296-13317-1-ND	Dual Peripheral Driver	8-SOP	.80	.60	.45
SN75454BPSR	296-13317-2-ND	Dual Peripheral Driver	8-SOP	532.00/2,000		
SN752232DGGR	296-12331-1-ND	Dual RS-232 Port	48-TSSOP	1.25	1.00	.75
SN752232DGGR	296-12331-2-ND	Dual RS-232 Port	48-TSSOP	1300.00/2,000		
SN752232DLR	296-12332-1-ND	Dual RS-232 Port	48-SSOP	1.25	1.00	.75
SN752232DLR	296-12332-2-ND	Dual RS-232 Port	48-SSOP	650.00/1,000		
TL145406DWR	296-10140-1-ND	Triple RS-232 Driver/Receiver	16-SOIC	1.30	1.04	.78
TL145406DWR	296-10140-2-ND	Triple RS-232 Driver/Receiver	16-SOIC	1352.00/2,000		
TL145406N	296-10141-5-ND	Triple RS-232 Driver/Receiver	16-Dip	1.30	1.04	.78
UA9636ACD	296-11147-5-ND	Dual Line Driver with Adj. Slew Rate	8-SOIC	.80	.60	.45
UA9636ACDR	296-15055-1-ND	Dual Line Driver with Adj. Slew Rate	8-SOIC	.80	.60	.45
UA9636ACDR	296-15055-2-ND	Dual Line Driver with Adj. Slew Rate	8-SOIC	650.00/2,500		
UA9636ACP	296-11148-5-ND	Dual Line Driver with Adj. Slew Rate	8-Dip	.80	.60	.45
UA9637ACDR	296-15056-1-ND	Dual Differential Line Receiver	8-SOIC	.75	.63	.50
UA9637ACDR	296-15056-2-ND	Dual Differential Line Receiver	8-SOIC	812.50/2,500		
UA9637ACP	296-15057-5-ND	Dual Differential Line Receiver	8-Dip	.75	.63	.50
UA9638CDR	296-15058-1-ND	Dual High Speed Diff. Line Driver	8-SOIC	.60	.45	.34
UA9638CDR	296-15058-2-ND	Dual High Speed Diff. Line Driver	8-SOIC	487.50/2,500		
UA9638CP	296-15059-5-ND	Dual High Speed Diff. Line Driver	8-Dip	.60	.45	.34
UC5170CQ	296-11352-5-ND	Octal Line Driver with Strapped Mode Selection	28-PLCC	5.98	4.79	4.04
UC5180CQ	296-11354-5-ND	Low Speed Async. Octal Line Rcvr.	28-PLCC	5.70	4.56	3.85

SCSI

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN75970B2DGG	296-9921-5-ND	SCSI Differential Converter Control	56-TSSOP	22.35	20.86	19.37
SN75970B2DL	296-9922-5-ND	SCSI Differential Converter Control	56-SSOP	22.35	20.86	19.37
SN75971B2DGG	296-9923-5-ND	SCSI Differential Converter - Data	56-TSSOP	20.40	19.04	17.68
SN75971B2DL	296-9924-5-ND	SCSI Differential Converter - Data	56-SSOP	20.40	19.04	17.68
SN75976A2DL	296-1278-5-ND	9-Channel Differential Transceiver	56-SSOP	22.20	20.72	19.24
SN75976A2DLR	296-1278-1-ND	9-Channel Differential Transceiver	56-SSOP	22.20	20.72	19.24
SN75976A2DLR	296-1278-2-ND	9-Channel Differential Transceiver	56-SSOP	18278.00/1,000		
UCC5642MWP	296-12333-5-ND	9-Line LVD Only SCSI Terminator with Regulator	36-QSOP	5.56	4.45	3.46

Switches

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX4594DBVR	296-17649-1-ND	5V Analog Switch	SOT-23-5	.78	.65	.52
MAX4594DBVR	296-17649-2-ND	5V Analog Switch	SOT-23-5	1014.00/3,000		
MAX4594DCKR	296-17650-1-ND	5V Analog Switch	SC70-5	.78	.65	.52
MAX4594DCKR	296-17650-2-ND	5V Analog Switch	SC70-5	1014.00/3,000		
MAX4595DBVR	296-17651-1-ND	5V Analog Switch	SOT-23-5	.78	.65	.52
MAX4595DBVR	296-17651-2-ND	5V Analog Switch	SOT-23-5	1014.00/3,000		
MAX4595DCKR	296-17652-1-ND	5V Analog Switch	SC70-5	.78	.65	.52
MAX4595DCKR	296-17652-2-ND	5V Analog Switch	SC70-5	1014.00/3,000		
MAX4596DBVR	296-17653-1-ND	5V Analog Switch	SOT-23-5	.78	.65	.52
MAX4596DBVR	296-17653-2-ND	5V Analog Switch	SOT-23-5	1014.00/3,000		
MAX4596DCKR	296-17654-1-ND	5V Analog Switch	SC70-5	.78	.65	.52
MAX4596DCKR	296-17654-2-ND	5V Analog Switch	SC70-5	1014.00/3,000		
MAX4597DBVR	296-17655-1-ND	5V Analog Switch	SOT-23-5	.78	.65	.52
MAX4597DBVR	296-17655-2-ND	5V Analog Switch	SOT-23-5	1014.00/3,000		
MAX4597DCKR	296-17656-1-ND	5V Analog Switch	SC70-5	.78	.65	.52
MAX4597DCKR	296-17656-2-ND	5V Analog Switch	SC70-5	1014.00/3,000		
TL52055DR	296-18888-1-ND	Wide Bandwidth, 2-In, 1-Out, 3-Circuit Video Switch	16-SOIC	.75	.63	.50
TL52055DR	296-18888-2-ND	Wide Bandwidth, 2-In, 1-Out, 3-Circuit Video Switch	16-SOIC	812.50/2,500		
TL52055PWR	296-18889-1-ND	Wide Bandwidth, 2-In, 1-Out, 3-Circuit Video Switch	16-TSSOP	.75	.63	.50
TL52055PWR	296-18889-2-ND	Wide Bandwidth, 2-In, 1-Out, 3-Circuit Video Switch	16-TSSOP	666.00/2,000		
TMDS341PFC	296-18264-ND	3-to-1 DVI/HDMI Switch	80-TQFP	7.00	5.60	4.73
TS3A5017DBQR	296-17581-1-ND	10-Ohm SPDT Analog Switch	16-SSOP	.96	.72	.54
TS3A5017DBQR	296-17581-2-ND	10-Ohm SPDT Analog Switch	16-SSOP	780.00/2,500		
TS3A5017DGVR	296-17582-1-ND	10-Ohm SPDT Analog Switch	16-TVSOP	.96	.72	.54
TS3A5017DGVR	296-17582-2-ND	10-Ohm SPDT Analog Switch	16-TVSOP	638.00/2,000		
TS3A5017DR	296-17583-1-ND	10-Ohm SPDT Analog Switch	16-SOIC	.96	.72	.54
TS3A5017DR	296-17583-2-ND	10-Ohm SPDT Analog Switch	16-SOIC	780.00/2,500		
TS3A5017PWR	296-17584-1-ND	10-Ohm SPDT Analog Switch	16-TSSOP	.96	.72	.54
TS3A5017PWR	296-17584-2-ND	10-Ohm SPDT Analog Switch	16-TSSOP	638.00/2,000		
TS3A5018DBQR	296-17609-1-ND	10-Ohm SPDT Analog Switch	16-SSOP	.96	.72	.54
TS3A5018DBQR	296-17609-2-ND	10-Ohm SPDT Analog Switch	16-SSOP	780.00/2,500		
TS3A5018DGVR	296-17610-1-ND	10-Ohm SPDT Analog Switch	16-TVSOP	.96	.72	.54
TS3A5018DGVR	296-17610-2-ND	10-Ohm SPDT Analog Switch	16-TVSOP	638.00/2,000		
TS3A5018DR	296-17611-1-ND	10-Ohm SPDT Analog Switch	16-SOIC	.96	.72	.54
TS3A5018DR	296-17611-2-ND	10-Ohm SPDT Analog Switch	16-SOIC	780.00/2,500		
TS3A5018PWR	296-17612-1-ND	10-Ohm SPDT Analog Switch	16-TSSOP	.96	.72	.54
TS3A5018PWR	296-17612-2-ND	10-Ohm SPDT Analog Switch	16-TSSOP	638.00/2,000		
TS3L100DBQR	296-17354-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-SSOP	1.38	1.11	.83
TS3L100DBQR	296-17354-2-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-SSOP	1770.00/2,500		
TS3L100DGVR	296-19011-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-TVSOP	1.38	1.11	.83
TS3L100DGVR	296-19011-2-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-TVSOP	1438.00/2,000		
TS3L100DR	296-19012-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-SOIC	1.38	1.11	.83
TS3L100DR	296-19012-2-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-SOIC	1770.00/2,500		
TS3L100PWR	296-19013-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-TSSOP	1.38	1.11	.83
TS3L100PWR	296-19013-2-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-TSSOP	1438.00/2,000		

(Continued)

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

TEXAS INSTRUMENTS DATA TRANSMISSION *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TS3L100RGYR	296-17302-1-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-QFN	1.38	1.11	.83
TS3L100RGYR	296-17302-2-ND	Quad SPDT Wide-Bandwidth LAN Switch	16-QFN	719.00/1,000		
TS3L110DBQR	296-17392-ND	3.3V Quad 2:1 Mux/Demux LAN Switch	16-SSOP	1.88	1.50	1.13
TS3L110DGVR	296-19014-1-ND	Quad SPDT High Bandwidth 10/100 Base-T Lan Switch, Differential 8-Ch. to 4-Ch. Mux/Demux	16-TVSOP	1.88	1.50	1.13
TS3L110DGVR	296-19014-2-ND	Quad SPDT High Bandwidth 10/100 Base-T Lan Switch, Differential 8-Ch. to 4-Ch. Mux/Demux	16-TVSOP	1950.00/2,000		
TS3L110DR	296-17455-1-ND	Quad SPDT High Bandwidth 10/100 Base-T LAN Switch, Differential 8-Channel to 4-Channel Mux/Demux	16-SOIC	1.88	1.50	1.13
TS3L110DR	296-17455-2-ND	Quad SPDT High Bandwidth 10/100 Base-T LAN Switch, Differential 8-Channel to 4-Channel Mux/Demux	16-SOIC	2400.00/2,500		
TS3L110PWR	296-19015-1-ND	Quad SPDT High Bandwidth 10/100 Base-T Lan Switch, Differential 8-Ch. to 4-Ch. Mux/Demux	16-TSSOP	1.88	1.50	1.13
TS3L110PWR	296-19015-2-ND	Quad SPDT High Bandwidth 10/100 Base-T Lan Switch, Differential 8-Ch. to 4-Ch. Mux/Demux	16-TSSOP	1950.00/2,000		
TS3L110RGYR	296-17456-1-ND	Quad SPDT High Bandwidth 10/100 Base-T LAN Switch, Differential 8-Channel to 4-Channel Mux/Demux	16-QFN	1.88	1.50	1.13
TS3L110RGYR	296-17456-2-ND	Quad SPDT High Bandwidth 10/100 Base-T LAN Switch, Differential 8-Channel to 4-Channel Mux/Demux	16-QFN	975.00/1,000		
TS3L301DGGR	296-17533-1-ND	16-Bit to 8-Bit SPDT Mux/Demux LAN Switch	48-TSSOP	3.22	2.58	2.01
TS3L301DGGR	296-17533-2-ND	16-Bit to 8-Bit SPDT Mux/Demux LAN Switch	48-TSSOP	3646.00/2,000		
TS3L301DGVR	296-17534-1-ND	16-Bit to 8-Bit SPDT Mux/Demux LAN Switch	48-TVSOP	3.22	2.58	2.01
TS3L301DGVR	296-17534-2-ND	16-Bit to 8-Bit SPDT Mux/Demux LAN Switch	48-TVSOP	3646.00/2,000		
TS3V330DBQR	296-19016-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-SSOP	.93	.78	.62
TS3V330DBQR	296-19016-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-SSOP	1007.50/2,500		
TS3V330DGVR	296-19017-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-TVSOP	.93	.78	.62
TS3V330DGVR	296-19017-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-TVSOP	824.00/2,000		
TS3V330DR	296-19018-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-SOIC	.93	.78	.62
TS3V330DR	296-19018-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-SOIC	1007.50/2,500		
TS3V330PWR	296-18212-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-TSSOP	.93	.78	.62
TS3V330PWR	296-18212-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-TSSOP	824.00/2,000		
TS3V330RGYR	296-17053-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-QFN	.93	.78	.62
TS3V330RGYR	296-17053-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-QFN	412.00/1,000		
TS3V340DBQR	296-17815-1-ND	Quad SPDT High Bandwidth Video Switch	16-QSOP	1.23	1.03	.82
TS3V340DBQR	296-17815-2-ND	Quad SPDT High Bandwidth Video Switch	16-QSOP	1332.50/2,500		
TS3V340DGVR	296-17816-1-ND	Quad SPDT High Bandwidth Video Switch	16-TVSOP	1.23	1.03	.82
TS3V340DGVR	296-17816-2-ND	Quad SPDT High Bandwidth Video Switch	16-TVSOP	1090.00/2,000		
TS3V340DR	296-17817-1-ND	Quad SPDT High Bandwidth Video Switch	16-SOIC	1.23	1.03	.82
TS3V340DR	296-17817-2-ND	Quad SPDT High Bandwidth Video Switch	16-SOIC	1332.50/2,500		
TS3V340PWR	296-17818-1-ND	Quad SPDT High Bandwidth Video Switch	16-TSSOP	1.23	1.03	.82
TS3V340PWR	296-17818-2-ND	Quad SPDT High Bandwidth Video Switch	16-TSSOP	1090.00/2,000		
TS3V340RGYR	296-18174-1-ND	Quad SPDT High Bandwidth Video Switch	16-QFN	1.35	1.13	.90
TS3V340RGYR	296-18174-2-ND	Quad SPDT High Bandwidth Video Switch	16-QFN	599.00/1,000		
TS5A1066DBVR	296-17585-1-ND	Bilateral Single Analog Switch	SOT-23-5	.40	.32	.24
TS5A1066DBVR	296-17585-2-ND	Bilateral Single Analog Switch	SOT-23-5	324.00/3,000		
TS5A1066DCKR	296-17586-1-ND	Bilateral Single Analog Switch	SC70-5	.40	.32	.24
TS5A1066DCKR	296-17586-2-ND	Bilateral Single Analog Switch	SC70-5	324.00/3,000		
TS5A2053DCUR	296-17751-1-ND	Single Channel 10-Ohm SPDT Analog Switch	8-VSSOP	.60	.45	.34
TS5A2053DCUR	296-17751-2-ND	Single Channel 10-Ohm SPDT Analog Switch	8-VSSOP	585.00/3,000		
TS5A2066DCUR	296-17877-1-ND	Dual Channel 10-Ohm SPST Analog Switch	8-VSSOP	.60	.45	.34
TS5A2066DCUR	296-17877-2-ND	Dual Channel 10-Ohm SPST Analog Switch	8-VSSOP	585.00/3,000		
TS5A3154DCUR	296-17878-1-ND	SPDT Analog Switch	8-VSSOP	1.05	.88	.70
TS5A3154DCUR	296-17878-2-ND	SPDT Analog Switch	8-VSSOP	1365.00/3,000		
TS5A3157DBVR	296-17587-1-ND	10-Ohm SPDT Analog Switch	SOT-23-6	.45	.36	.27
TS5A3157DBVR	296-17587-2-ND	10-Ohm SPDT Analog Switch	SOT-23-6	366.00/3,000		
TS5A3157DCKR	296-17588-1-ND	10-Ohm SPDT Analog Switch	SC70-6	.45	.36	.27
TS5A3157DCKR	296-17588-2-ND	10-Ohm SPDT Analog Switch	SC70-6	366.00/3,000		
TS5A3159ADBVR	296-19265-1-ND	1-Ohm SPDT Analog Switch ***NEW!***	SOT-23-6	.56	.42	.32
TS5A3159ADBVR	296-19265-2-ND	1-Ohm SPDT Analog Switch ***NEW!***	SOT-23-6	546.00/3,000		
TS5A3159AYZPR	296-18671-1-ND	1-Ohm SPDT Analog Switch	6-DSBGA	.75	.63	.50
TS5A3159AYZPR	296-18671-2-ND	1-Ohm SPDT Analog Switch	6-DSBGA	975.00/3,000		
TS5A3159DBVR	296-17319-1-ND	1-Ohm SPDT Analog Switch	SOT-23-6	.56	.42	.32
TS5A3159DBVR	296-17319-2-ND	1-Ohm SPDT Analog Switch	SOT-23-6	546.00/3,000		
TS5A3159DCKR	296-17303-1-ND	1-Ohm SPDT Analog Switch	SC70-6	.56	.42	.32
TS5A3159DCKR	296-17303-2-ND	1-Ohm SPDT Analog Switch	SC70-6	546.00/3,000		
TS5A3159MDBVREP	296-19530-1-ND	1-Ohm SPDT Analog Switch ***NEW!***	SOT-23-6	2.38	1.90	1.43
TS5A3159MDBVREP	296-19530-2-ND	1-Ohm SPDT Analog Switch ***NEW!***	SOT-23-6	3648.00/3,000		
TS5A3166DBVR	296-17740-1-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	.48	.36	.27
TS5A3166DBVR	296-17740-2-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	468.00/3,000		
TS5A3166DCKR	296-17741-1-ND	0.9-Ohm SPST Analog Switch	SC70-5	.48	.36	.27
TS5A3166DCKR	296-17741-2-ND	0.9-Ohm SPST Analog Switch	SC70-5	468.00/3,000		
TS5A3167DBVR	296-17752-1-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	.48	.36	.27
TS5A3167DBVR	296-17752-2-ND	0.9-Ohm SPST Analog Switch	SOT-23-5	468.00/3,000		
TS5A3167DCKR	296-17753-1-ND	0.9-Ohm SPST Analog Switch	SC70-5	.48	.36	.27
TS5A3167DCKR	296-17753-2-ND	0.9-Ohm SPST Analog Switch	SC70-5	468.00/3,000		
TS5A3357DCUR	296-17404-1-ND	Single 5-Ohm SP3T Analog Switch	8-VSSOP	.81	.68	.54
TS5A3357DCUR	296-17404-2-ND	Single 5-Ohm SP3T Analog Switch	8-VSSOP	1053.00/3,000		
TS5A4594DBVR	296-17705-1-ND	5V Analog Switch	SOT-23-5	.45	.36	.27
TS5A4594DBVR	296-17705-2-ND	5V Analog Switch	SOT-23-5	366.00/3,000		
TS5A4594DCKR	296-17706-1-ND	5V Analog Switch	SC70-5	.45	.36	.27
TS5A4594DCKR	296-17706-2-ND	5V Analog Switch	SC70-5	366.00/3,000		
TS5A4595DBVR	296-17707-1-ND	5V Analog Switch	SOT-23-5	.45	.36	.27
TS5A4595DBVR	296-17707-2-ND	5V Analog Switch	SOT-23-5	366.00/3,000		
TS5A4595DCKR	296-17708-1-ND	5V Analog Switch	SC70-5	.45	.36	.27
TS5A4595DCKR	296-17708-2-ND	5V Analog Switch	SC70-5	366.00/3,000		
TS5A4596DBVR	296-17709-1-ND	5V Analog Switch	SOT-23-5	.45	.36	.27
TS5A4596DBVR	296-17709-2-ND	5V Analog Switch	SOT-23-5	366.00/3,000		
TS5A4596DCKR	296-17710-1-ND	5V Analog Switch	SC70-5	.45	.36	.27
TS5A4596DCKR	296-17710-2-ND	5V Analog Switch	SC70-5	366.00/3,000		
TS5A4597DBVR	296-17711-1-ND	5V Analog Switch	SOT-23-5	.45	.36	.27
TS5A4597DBVR	296-17711-2-ND	5V Analog Switch	SOT-23-5	366.00/3,000		
TS5A4597DCKR	296-17712-1-ND	5V Analog Switch	SC70-5	.45	.36	.27
TS5A4597DCKR	296-17712-2-ND	5V Analog Switch	SC70-5	366.00/3,000		
TS5A23157DGSR	296-17076-1-ND	10-Ohm SPDT Analog Switch	10-MSOP	1.40	1.05	.79
TS5A23157DGSR	296-17076-2-ND	10-Ohm SPDT Analog Switch	10-MSOP	1137.50/2,500		
TS5A23159DGSR	296-18598-1-ND	1-Ohm Dual SPDT Analog Switch ***NEW!***	10-MSOP	1.05	.88	.70
TS5A23159DGSR	296-18598-2-ND	1-Ohm Dual SPDT Analog Switch ***NEW!***	10-MSOP	1137.50/2,500		
TS5A23160DGSR	296-18039-1-ND	Analog Switch	10-VSSOP	1.05	.88	.70
TS5A23160DGSR	296-18039-2-ND	Analog Switch	10-VSSOP	1137.50/2,500		
TS5A23166DCUR	296-17906-1-ND	Analog Switch	8-VSSOP	1.05	.88	.70
TS5A23166DCUR	296-17906-2-ND	Analog Switch	8-VSSOP	1365.00/3,000		
TS5A23167DCUR	296-17985-1-ND	5V Analog Switch	8-VSSOP	1.05	.88	.70
TS5A23167DCUR	296-17985-2-ND	5V Analog Switch	8-VSSOP	1365.00/3,000		
TS5L100DBQR	296-17040-1-ND	Quad SPDT Wide Bandwidth LAN Switch	16-SSOP	1.38	1.11	.83
TS5L100DBQR	296-17040-2-ND	Quad SPDT Wide Bandwidth LAN Switch	16-SSOP	1770.00/2,500		
TS5L100DR	296-19019-1-ND	Quad SPDT Wide Bandwidth LAN Switch	16-SOIC	1.38	1.11	.83
TS5L100DR	296-19019-2-ND	Quad SPDT Wide Bandwidth LAN Switch	16-SOIC	1770.00/2,500		
TS5L100PWR	296-17041-1-ND	Quad SPDT Wide Bandwidth LAN Switch	20-TSSOP	1.38	1.11	.83
TS5L100PWR	296-17041-2-ND	Quad SPDT Wide Bandwidth LAN Switch	20-TSSOP	1438.00/2,000		
TS5L100RGYR	296-17042-1-ND	Quad SPDT Wide Bandwidth LAN Switch	16-QFN	1.38	1.11	.83
TS5L100RGYR	296-17042-2-ND	Quad SPDT Wide Bandwidth LAN Switch	16-QFN	1222.00/1,000		
TS5V330DBQR	296-17089-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-SSOP	.93	.78	.62
TS5V330DBQR	296-17089-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-SSOP	1007.50/2,500		
TS5V330DR	296-19020-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-SOIC	.93	.78	.62
TS5V330DR	296-19020-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-SOIC	1007.50/2,500		
TS5V330PWR	296-17043-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-TSSOP	.93	.78	.62
TS5V330PWR	296-17043-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-TSSOP	824.00/2,000		
TS5V330RGYR	296-17090-1-ND	Quad SPDT Wide Bandwidth Video Switch	16-QFN	.93	.78	.62
TS5V330RGYR	296-17090-2-ND	Quad SPDT Wide Bandwidth Video Switch	16-QFN	412.00/1,000		

TEXAS INSTRUMENTS DIGITAL LOGIC

4000 Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD4001BE	296-2028-5-ND	CMOS Quad 2-Input NOR Gate	14-Dip	.50	.40	.30
CD4001BM	296-3500-5-ND	CMOS Quad 2-Input NOR Gate	14-SOIC	.50	.40	.30
CD4001BNSR	296-12627-1-ND	CMOS Quad 2-Input NOR Gate	14-SOP	.50	.40	.30
CD4001BNSR	296-12627-2-ND	CMOS Quad 2-Input NOR Gate	14-SOP	280.00/2,000		
CD4001BPWR	296-14076-1-ND	CMOS Quad 2-Input NOR Gate	14-TSSOP	.50	.40	.30
CD4001BPWR	296-14076-2-ND	CMOS Quad 2-Input NOR Gate	14-TSSOP	280.00/2,000		
CD4001UBE	296-14077-5-ND	CMOS Quad 2-Input NOR Gate	14-Dip	.50	.40	.30
CD4002BE	296-2029-5-ND	Dual 4-Input NOR Gate	14-Dip	.50	.40	.30
CD4002BNSR	296-14078-1-ND	Dual 4-Input NOR Gate	14-SOP	.50	.40	.30
CD4002BNSR	296-14078-2-ND	Dual 4-Input NOR Gate	14-SOP	280.00/2,000		
CD4002BPWR	296-14239-1-ND	Dual 4-Input NOR Gate	14-TSSOP	.50	.40	.30
CD4002BPWR	296-14239-2-ND	Dual 4-Input NOR Gate	14-TSSOP	280.00/2,000		
CD4007UBE	296-3501-5-ND	Dual Complementary Pair Plus Inverter	14-Dip	.50	.40	.30
CD4007UBM	296-3502-5-ND	Dual Complementary Pair Plus Inverter	14-SOIC	.50	.40	.30
CD4009UBE	296-2030-5-ND	Hex Inverter Buffer	16-Dip	.50	.40	.30
CD4009UBPWR	296-14240-1-ND	CMOS Hex Buffer/Converter	16-TSSOP	.50	.40	.30
CD4009UBPWR	296-14240-2-ND	CMOS Hex Buffer/Converter	16-TSSOP	280.00/2,000		
CD4010BE	296-2160-5-ND	Hex Buffer/Converter	16-Dip	.48	.36	.27
CD4010BPWR	296-14084-1-ND	Hex Buffer/Converter	16-TSSOP	.50	.40	.30
CD4010BPWR	296-14084-2-ND	Hex Buffer/Converter	16-TSSOP	280.00/2,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD4011BE	296-2031-5-ND	Quad 2-Input NAND Gate	14-Dip	.50	.40	.30
CD4011BM	296-3507-5-ND	Quad 2-Input NAND Gate	14-SOIC	.50	.40	.30
CD4011BM96	296-14474-1-ND	Quad 2-Input CMOS NAND Gate	14-SOIC	.50	.40	.30
CD4011BM96	296-14474-2-ND	Quad 2-Input CMOS NAND Gate	14-SOIC	337.50/2,500		
CD4011BNSR	296-14085-1-ND	Quad 2-Input NAND Gate	14-SOP	.50	.40	.30
CD4011BNSR	296-14085-2-ND	Quad 2-Input NAND Gate	14-SOP	280.00/2,000		
CD4011BPWR	296-12759-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.50	.40	.30
CD4011BPWR	296-12759-2-ND	Quad 2-Input NAND Gate	14-TSSOP	280.00/2,000		
CD4011UBE	296-14086-5-ND	Quad 2-Input NAND Gate	14-Dip	.50	.40	.30
CD4011UBM	296-14245-5-ND	Quad 2-Input NAND Gate	14-SOIC	.50	.40	.30
CD4012BE	296-2032-5-ND	Dual 4-Input NAND Gate	14-Dip	.50	.40	.30
CD4012BM96	296-14246-1-ND	Dual 4-Input NAND Gate	14-SOIC	.50	.40	.30
CD4012BM96	296-14246-2-ND	Dual 4-Input NAND Gate	14-SOIC	337.50/2,500		
CD4012BNSR	296-14087-1-ND	Dual 4-Input NAND Gate	14-SOP	.50	.40	.30
CD4012BNSR	296-14087-2-ND	Dual 4-Input NAND Gate	14-SOP	280.00/2,000		
CD4013BE	296-2033-5-ND	Dual CMOS D-Type Flip-Flop	14-Dip	.50	.40	.30
CD4013BM	296-12972-5-ND	Dual CMOS D-Type Flip-Flop	14-SOIC	.50	.40	.30
CD4013BNSR	296-14088-1-ND	Dual CMOS D-Type Flip-Flop	14-SOP	.50	.40	.30
CD4013BNSR	296-14088-2-ND	Dual CMOS D-Type Flip-Flop	14-SOP	280.00/2,000		
CD4013BPWR	296-14089-1-ND	Dual CMOS D-Type Flip-Flop	14-TSSOP	.50	.40	.30
CD4013BPWR	296-14089-2-ND	Dual CMOS D-Type Flip-Flop	14-TSSOP	280.00/2,000		
CD4014BE	296-2034-5-ND	8-Stage Static Shift Register	16-Dip	.56	.42	.32
CD4014BPWR	296-14248-1-ND	8-Stage Static Shift Register	16-TSSOP	.48	.36	.27
CD4014BPWR	296-14248-2-ND	8-Stage Static Shift Register	16-TSSOP	320.00/2,000		
CD4015BE	296-2035-5-ND	Dual 4-Stage Static Shift Register	16-Dip	.60	.45	.34
CD4015BPWR	296-14090-1-ND	Dual 4-Stage Static Shift Register	16-TSSOP	.60	.45	.34
CD4015BPWR	296-14090-2-ND	Dual 4-Stage Static Shift Register	16-TSSOP	280.00/2,000		
CD4016BE	296-2036-5-ND	Quad Bilateral Switch	14-Dip	.48	.36	.27
CD4016BM	296-14250-5-ND	Quad Bilateral Switch	14-SOIC	.55	.44	.33
CD4016BNSR	296-14092-1-ND	Quad Bilateral Switch	16-SOP	.55	.44	.33
CD4016BNSR	296-14092-2-ND	Quad Bilateral Switch	16-SOP	308.00/2,000		
CD4017BE	296-2037-5-ND	10 Decade Counter/Divider	16-Dip	.48	.36	.27
CD4017BNSR	296-14094-1-ND	10 Decade Counter/Divider	16-SOP	.50	.40	.30
CD4017BNSR	296-14094-2-ND	10 Decade Counter/Divider	16-SOP	308.00/2,000		
CD4017BPWR	296-14252-1-ND	10 Decade Counter/Divider	16-TSSOP	.50	.40	.30
CD4017BPWR	296-14252-2-ND	10 Decade Counter/Divider	16-TSSOP	308.00/2,000		
CD4018BE	296-14236-ND	CMOS Presettable Divide-by-N Counter	16-Dip	.56	.42	.32
CD4018BNSR	296-14095-1-ND	CMOS Presettable Divide-by-N Counter	16-SOP	.48	.36	.27
CD4018BNSR	296-14095-2-ND	CMOS Presettable Divide-by-N Counter	16-SOP	320.00/2,000		
CD4019BE	296-2038-5-ND	Quad AND/OR Select Gate	16-Dip	.60	.45	.34
CD4020BE	296-2039-5-ND	14-Bit Ripple-Carry Binary Counter/Divider	16-Dip	.56	.42	.32
CD4020BNSR	296-14097-1-ND	14-Bit Ripple-Carry Binary Counter/Divider	16-SOP	.48	.36	.27
CD4020BNSR	296-14097-2-ND	14-Bit Ripple-Carry Binary Counter/Divider	16-SOP	320.00/2,000		
CD4021BE	296-2040-5-ND	8-Stage Static Shift Register	16-Dip	.48	.36	.27
CD4021BM	296-14255-5-ND	8-Stage Static Shift Register	16-SOIC	.48	.36	.27
CD4021BPWR	296-14256-1-ND	8-Stage Static Shift Register	16-TSSOP	.48	.36	.27
CD4021BPWR	296-14256-2-ND	8-Stage Static Shift Register	16-TSSOP	320.00/2,000		
CD4022BNSR	296-14098-1-ND	Octal Counter/Divider	16-SOP	.45	.36	.27
CD4022BNSR	296-14098-2-ND	Octal Counter/Divider	16-SOP	346.00/2,000		
CD4022BPWR	296-14257-1-ND	Octal Counter/Divider	16-TSSOP	.45	.36	.27
CD4022BPWR	296-14257-2-ND	Octal Counter/Divider	16-TSSOP	346.00/2,000		
CD4023BE	296-2041-5-ND	Triple 3-Input NAND Gate	14-Dip	.48	.36	.27
CD4023BNSR	296-14099-1-ND	Triple 3-Input NAND Gate	14-SOP	.50	.40	.30
CD4023BNSR	296-14099-2-ND	Triple 3-Input NAND Gate	14-SOP	308.00/2,000		
CD4024BE	296-2042-5-ND	7-Stage, Ripple-Carry Binary Counter	14-Dip	.48	.36	.27
CD4024BM96	296-14258-1-ND	7-Stage, Ripple-Carry Binary Counter	14-SOIC	.50	.40	.30
CD4024BM96	296-14258-2-ND	7-Stage, Ripple-Carry Binary Counter	14-SOIC	372.50/2,500		
CD4024BPWR	296-12760-1-ND	7-Stage, Ripple-Carry Binary Counter	14-TSSOP	.50	.40	.30
CD4024BPWR	296-12760-2-ND	7-Stage, Ripple-Carry Binary Counter	14-TSSOP	308.00/2,000		
CD4025BE	296-2043-5-ND	Triple 3-Input NOR Gate	14-Dip	.50	.40	.30
CD4025BM96	296-14100-1-ND	Triple 3-Input NOR Gate	14-SOIC	.50	.40	.30
CD4025BM96	296-14100-2-ND	Triple 3-Input NOR Gate	14-SOIC	337.50/2,500		
CD4026BE	296-14260-5-ND	Decade Counter/Divider	16-Dip	.75	.63	.50
CD4026BPWR	296-14261-1-ND	Decade Counter/Divider	16-TSSOP	1.02	.85	.68
CD4026BPWR	296-14261-2-ND	Decade Counter/Divider	16-TSSOP	904.00/2,000		
CD4027BE	296-2044-5-ND	Dual JK Master/Slave Flip-Flop	16-Dip	.55	.44	.33
CD4027BM	296-3511-5-ND	Dual JK Master/Slave Flip-Flop	16-SOIC	.55	.44	.33
CD4027BNSR	296-14101-1-ND	Dual JK Master/Slave Flip-Flop	16-SOP	.50	.40	.30
CD4027BNSR	296-14101-2-ND	Dual JK Master/Slave Flip-Flop	16-SOP	308.00/2,000		
CD4027BPWR	296-14262-1-ND	Dual JK Master/Slave Flip-Flop	16-TSSOP	.55	.44	.33
CD4027BPWR	296-14262-2-ND	Dual JK Master/Slave Flip-Flop	16-TSSOP	308.00/2,000		
CD4028BE	296-2045-5-ND	BCD-to-Decimal Decoder	16-Dip	.52	.39	.30
CD4028BM96	296-16702-1-ND	BCD-to-Decimal Decoder	16-SOIC	.50	.40	.30
CD4028BM96	296-16702-2-ND	BCD-to-Decimal Decoder	16-SOIC	372.50/2,500		
CD4028BNSR	296-12724-1-ND	BCD-to-Decimal Decoder	16-SOP	.50	.40	.30
CD4028BNSR	296-12724-2-ND	BCD-to-Decimal Decoder	16-SOP	308.00/2,000		
CD4029BE	296-2046-5-ND	Preset Up/Down Binary Counter	16-Dip	.52	.39	.30
CD4029BPWR	296-17105-1-ND	Preset Up/Down Binary Counter	16-TSSOP	.60	.48	.36
CD4029BPWR	296-17105-2-ND	Preset Up/Down Binary Counter	16-TSSOP	336.00/2,000		
CD4030BE	296-2047-5-ND	Quad Exclusive OR Gate	14-Dip	.48	.36	.27
CD4030BM	296-14263-5-ND	Quad Exclusive OR Gate	14-SOIC	.55	.44	.33
CD4030BNSR	296-14102-1-ND	Quad Exclusive OR Gate	14-SOP	.50	.40	.30
CD4030BNSR	296-14102-2-ND	Quad Exclusive OR Gate	14-SOP	308.00/2,000		
CD4030BPWR	296-14103-1-ND	Quad Exclusive OR Gate	14-TSSOP	.50	.40	.30
CD4030BPWR	296-14103-2-ND	Quad Exclusive OR Gate	14-TSSOP	308.00/2,000		
CD4033BE	296-14264-5-ND	Decade Counter/Divider	16-Dip	1.38	1.10	.83
CD4034BE	296-14237-ND	CMOS 8-Stage Static Bidirectional Parallel/Serial Input/Output Bus Register	24-Dip	1.88	1.50	1.13
CD4035BE	296-2163-5-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register	16-Dip	1.44	1.20	.96
CD4035BPWR	296-14267-1-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register	16-TSSOP	1.44	1.20	.96
CD4035BPWR	296-14267-2-ND	CMOS 4-Stage Parallel In/Parallel Out Shift Register	16-TSSOP	1276.00/2,000		
CD4040BE	296-2048-5-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	16-Dip	.48	.36	.27
CD4040BNSR	296-13770-1-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	16-SOP	.50	.40	.30
CD4040BNSR	296-13770-2-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	16-SOP	308.00/2,000		
CD4040BPWR	296-12761-1-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	14-TSSOP	.55	.44	.33
CD4040BPWR	296-12761-2-ND	12-Stage, CMOS Ripple-Carry Binary Counter/Divider	14-TSSOP	308.00/2,000		
CD4041UBE	296-2164-5-ND	Quad True/Complement Buffer	14-Dip	.96	.72	.54
CD4041UBPWR	296-14104-1-ND	Quad True/Complement Buffer	14-TSSOP	.96	.72	.54
CD4041UBPWR	296-14104-2-ND	Quad True/Complement Buffer	14-TSSOP	638.00/2,000		
CD4042BE	296-2049-5-ND	Quad D-Type Latch	16-Dip	.48	.36	.27
CD4043BE	296-2050-5-ND	Tri-State Quad NOR R/S Latch	16-Dip	.60	.45	.34
CD4043BDW	296-14269-5-ND	Tri-State Quad NOR R/S Latch	16-SOIC	.60	.45	.34
CD4043BNSR	296-14105-1-ND	Tri-State Quad NOR R/S Latch	16-SOP	.60	.45	.34
CD4043BNSR	296-14105-2-ND	Tri-State Quad NOR R/S Latch	16-SOP	400.00/2,000		
CD4043BPWR	296-14106-1-ND	Tri-State Quad NOR R/S Latch	16-TSSOP	.60	.45	.34
CD4043BPWR	296-14106-2-ND	Tri-State Quad NOR R/S Latch	16-TSSOP	400.00/2,000		
CD4044BE	296-2051-5-ND	Quad NAND R/S Latch	16-Dip	.60	.45	.34
CD4044BNSR	296-12762-1-ND	Quad NAND R/S Latch	16-SOP	.52	.39	.30
CD4044BNSR	296-12762-2-ND	Quad NAND R/S Latch	16-SOP	346.00/2,000		
CD4045BE	296-3512-5-ND	Divide by N-Counter	16-Dip	.56	.42	.32
CD4045BPWR	296-14107-1-ND	Divide by N-Counter	16-TSSOP	.56	.42	.32
CD4045BPWR	296-14107-2-ND	Divide by N-Counter	16-TSSOP	372.00/2,000		
CD4046BE	296-2052-5-ND	Micropower Phase Lock Loop	16-Dip	.56	.42	.32
CD4046BNSR	296-14108-1-ND	Micropower Phase Lock Loop	16-SOP	.72	.54	.41
CD4046BNSR	296-14108-2-ND	Micropower Phase Lock Loop	16-SOP	478.00/2,000		
CD4046BPWR	296-14109-1-ND	Micropower Phase Lock Loop	16-TSSOP	.56	.42	.32
CD4046BPWR	296-14109-2-ND	Micropower Phase Lock Loop	16-TSSOP	372.00/2,000		
CD4047BE	296-2053-5-ND	CMOS Low Power Monostable/Astable Multivibrator	14-Dip	.52	.39	.30
CD4047BNSR	296-14110-1-ND	CMOS Low Power Monostable/Astable Multivibrator	14-SOP	.50	.40	.30
CD4047BNSR	296-14110-2-ND	CMOS Low Power Monostable/Astable Multivibrator	14-SOP	308.00/2,000		
CD4047BPWR	296-13642-1-ND	CMOS Low Power Monostable/Astable Multivibrator	14-TSSOP	.50	.40	.30
CD4047BPWR	296-13642-2-ND	CMOS Low Power Monostable/Astable Multivibrator	14-TSSOP	308.00/2,000		
CD4048BE	296-2054-5-ND	Expandable 8-Input Gate	16-Dip	.66	.50	.38
CD4049UBE	296-2055-5-ND	Hex Inverting Buffer/Converter	16-Dip	.53	.40	.30
CD4049UBNSR	296-14112-1-ND	Hex Inverting Buffer/Converter	16-SOP	.50	.40	.30
CD4049UBNSR	296-14112-2-ND	Hex Inverting Buffer/Converter	16-SOP	308.00/2,000		
CD4050BE	296-2056-5-ND	Hex Non-Inverting Buffer/Converter	16-Dip	.48	.36	.27
CD4050BDWR	296-14270-1-ND	Hex Non-Inverting Buffer/Converter	16-SOIC	.50	.40	.30
CD4050BDWR	296-14270-2-ND	Hex Non-Inverting Buffer/Converter	16-SOIC	308.00/2,000		
CD4050BNSR	296-14113-1-ND	Hex Non-Inverting Buffer/Converter	16-SOP	.50	.40	.30
CD4050BNSR	296-14113-2-ND	Hex Non-Inverting Buffer/Converter	16-SOP	308.00/2,000		
CD4051BE	296-2057-5-ND	8-Channel Analog Mux/Demux	16-Dip	.52	.39	.30
CD4051BM96	296-14271-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.48	.36	.27
CD4051BM96	296-14271-2-ND	8-Channel Analog Mux/Demux	16-SOIC	390.00/2,500		
CD4051BNSR	296-14115-1-ND	8-Channel Analog Mux/Demux	16-SOP	.52	.39	.30
CD4051BNSR	296-14115-2-ND	8-Channel Analog Mux/Demux	16-SOP	346.00/2,000		
CD4051BPWR	296-11993-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.48	.36	.27
CD4051BPWR	296-11993-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	320.00/2,000		
CD4051BQPWRQ1	296-17760-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.56	.42	.32
CD4051BQPWRQ1	296-17760-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	372.00/2,000		
CD4052BE	296-2058-5-ND	4-Channel Analog Mux/Demux	16-Dip	.48	.36	.27
CD4052BM96	296-14272-1-ND	4-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD4052BM96	296-14272-2-ND	4-Channel Analog Mux/Demux	16-SOIC	372.50/2,500		
CD4052BNSR	296-14116-1-ND	4-Channel Analog Mux/Demux	16-SOP	.50	.40	.30
CD4052BNSR	296-14116-2-ND	4-Channel Analog Mux/Demux	16-SOP	308.00/2,000		
CD4052BPWR	296-14273-1-ND	4-Channel Analog Mux/Demux	16-TSSOP	.55	.44	.33
CD4052BPWR	296-14273-2-ND	4-Channel Analog Mux/Demux	16-TSSOP	308.00/2,000		
CD4053BE	296-2059-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.44	.33
CD4053BM96	296-14274-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD4053BM96	296-14274-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	372.50/2,500		
CD4053BPWR	296-14117-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.55	.44	.33
CD4053BPWR	296-14117-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	308.00/2,000		
CD4054BE	296-3514-5-ND	CMOS 4-Segment LCD Driver	16-Dip	.52	.39	.30
CD4055BE	296-14275-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	.80	.60	.45
CD4056BE	296-14118-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	.62	.47	.35
CD4059AE	296-3515-5-ND	CMOS Prog. Divide-by-N Counter	24-Dip	2.48	1.98	1.54
CD4060BE	296-2060-5-ND	14-Stage Ripple Counter/Divider and Oscillator	16-Dip	.48	.36	.27
CD4060BPWR	296-14119-1-ND	14-Stage Ripple Counter/Divider and Oscillator	16-TSSOP	.55	.44	.33
CD4060BPWR	296-14119-2-ND	14-Stage Ripple Counter/Divider and Oscillator	16-TSSOP	308.00/2,000		
CD4063BE	296-14120-5-ND	4-Bit Magnitude Comparator	16-Dip	.72	.54	.41
CD4063BNSR	296-14121-1-ND	4-Bit Magnitude Comparator	16-SOP	.72	.54	.41
CD4063BNSR	296-14121-2-ND	4-Bit Magnitude Comparator	16-SOP	478.00/2,000		
CD4066BE	296-2061-5-ND	Quad Bilateral Switch	14-Dip	.55	.44	.33
CD4066BM	296-3516-5-ND	Quad Bilateral Switch	14-SOIC	.55	.44	.33
CD4066BM96	296-14475-1-ND	Quad Bilateral Switch	14-SOIC	.55	.44	.33
CD4066BM96	296-14475-2-ND	Quad Bilateral Switch	14-SOIC	372.50/2,500		
CD4066BNSR	296-14122-1-ND	Quad Bilateral Switch	14-SOP	.55	.44	.33
CD4066BNSR	296-14122-2-ND	Quad Bilateral Switch	14-SOP	308.00/2,000		
CD4066BPWR	296-14123-1-ND	Quad Bilateral Switch	14-TSSOP	.55	.44	.33
CD4066BPWR	296-14123-2-ND	Quad Bilateral Switch	14-TSSOP	308.00/2,000		
CD4067BE	296-3517-5-ND	Single 16-Channel Analog Mux/Demux	24-Dip	1.38	1.15	.92
CD4068BE	296-14124-5-ND	8-Input NAND/AND Gate	14-Dip	.48	.36	.27
CD4068BM96	296-15355-1-ND	8-Input NAND/AND Gate	14-SOIC	.55	.44	.33
CD4068BM96	296-15355-2-ND	8-Input NAND/AND Gate	14-SOIC	372.50/2,500		
CD4068BNSR	296-14125-1-ND	8-Input NAND/AND Gate	14-SOP	.55	.44	.33
CD4068BNSR	296-14125-2-ND	8-Input NAND/AND Gate	14-SOP	308.00/2,000		
CD4069UBE	296-3518-5-ND	Hex Inverter	14-Dip	.55	.44	.33
CD4069UBM	296-3519-5-ND	Hex Inverter	14-SOIC	.55	.44	.33
CD4069UBM96	296-14476-1-ND	Hex Inverter	14-SOIC	.50	.40	.30
CD4069UBM96	296-14476-2-ND	Hex Inverter	14-SOIC	372.50/2,500		

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CD4069UBPWR	296-14127-1-ND	Hex Inverter	14-TSSOP	.55	.44	.33
CD4069UBPWR	296-14127-2-ND	Hex Inverter	14-TSSOP		308.00/2,000	
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CD4070BM	296-14276-5-ND	Quad Exclusive OR Gate	14-SOIC	.50	.40	.30
CD4070BNSR	296-14129-1-ND	Quad Exclusive OR Gate	14-SOP	.50	.40	.30
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CD4071BM	296-14278-5-ND	Quad 2-Input OR Gate	14-SOIC	.50	.40	.30
CD4071BNSR	296-14130-1-ND	Quad 2-Input OR Gate	14-SOP	.50	.40	.30
CD4071BNSR	296-14130-2-ND	Quad 2-Input OR Gate	14-SOP		280.00/2,000	
CD4071BPW	296-14131-5-ND	Quad 2-Input OR Gate	14-TSSOP	.50	.40	.30
CD4072BE	296-2063-5-ND	Dual 4-Input OR Gate	14-Dip	.55	.44	.33
CD4072BNSR	296-14132-1-ND	Dual 4-Input OR Gate	14-SOP	.50	.40	.30
CD4072BNSR	296-14132-2-ND	Dual 4-Input OR Gate	14-SOP		280.00/2,000	
CD4073BE	296-2064-5-ND	Triple 3-Input AND Gate	14-Dip	.55	.44	.33
CD4073BM	296-3520-5-ND	Triple 3-Input AND Gate	14-SOIC	.55	.44	.33
CD4073BNSR	296-14133-1-ND	Triple 3-Input AND Gate	14-SOP	.55	.44	.33
CD4073BNSR	296-14133-2-ND	Triple 3-Input AND Gate	14-SOP		308.00/2,000	
CD4073BPWR	296-14134-1-ND	Triple 3-Input AND Gate	14-TSSOP	.55	.44	.33
CD4073BPWR	296-14134-2-ND	Triple 3-Input AND Gate	14-TSSOP		308.00/2,000	
CD4075BE	296-2065-5-ND	Triple 3-Input OR Gate	14-Dip	.55	.44	.33
CD4075BM	296-14279-5-ND	Triple 3-Input OR Gate	14-SOIC	.55	.44	.33
CD4075BNSR	296-14136-1-ND	Triple 3-Input OR Gate	14-SOP	.55	.44	.33
CD4075BNSR	296-14136-2-ND	Triple 3-Input OR Gate	14-SOP		308.00/2,000	
CD4076BE	296-14137-5-ND	4-Bit D-Type Register	16-Dip	.60	.45	.34
CD4077BE	296-13771-5-ND	CMOS Quad Exclusive NOR Gate	14-Dip	.48	.36	.27
CD4077BM	296-9406-5-ND	CMOS Quad Exclusive NOR Gate	14-SOIC	.55	.44	.33
CD4078BE	296-3521-5-ND	8-Input NOR/OR Gate	14-Dip	.55	.44	.33
CD4078BM	296-14138-5-ND	8-Input NOR/OR Gate	14-SOIC	.55	.44	.33
CD4078BNSR	296-14139-1-ND	8-Input NOR/OR Gate	14-SOP	.55	.44	.33
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CD4081BE	296-2066-5-ND	Quad 2-Input AND Gate	14-Dip	.55	.44	.33
CD4081BM	296-14280-5-ND	Quad 2-Input AND Gate	14-SOIC	.55	.44	.33
CD4081BNSR	296-14140-1-ND	Quad 2-Input AND Gate	14-SOP	.46	.37	.26
CD4081BNSR	296-14140-2-ND	Quad 2-Input AND Gate	14-SOP		308.00/2,000	
CD4081BPWR	296-14141-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	.26
CD4081BPWR	296-14141-2-ND	Quad 2-Input AND Gate	14-TSSOP		308.00/2,000	
CD4082BE	296-2067-5-ND	Dual 4-Input AND Gate	14-Dip	.55	.44	.33
CD4085BE	296-3522-5-ND	Dual 2-Wide/2-In AND/OR Invert Gate	14-Dip	.84	.63	.48
CD4085BPWR	296-14143-1-ND	Dual 2-Wide/2-In AND/OR Invert Gate	14-TSSOP	.84	.63	.48
CD4085BPWR	296-14143-2-ND	Dual 2-Wide/2-In AND/OR Invert Gate	14-TSSOP		558.00/2,000	
CD4086BE	296-14281-5-ND	Expandable 4-Wide/2-Input AND/OR Invert Gate	14-Dip	.92	.69	.52
CD4089BE	296-2165-5-ND	Binary Rate Multiplier	16-Dip	1.20	1.00	.80
CD4089BPWR	296-3523-1-ND	Binary Rate Multiplier	16-TSSOP	1.20	1.00	.80
CD4089BPWR	296-3523-2-ND	Binary Rate Multiplier	16-TSSOP		1064.00/2,000	
CD4093BE	296-2068-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.55	.44	.33
CD4093BM	296-3524-5-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.55	.44	.33
CD4093BNSR	296-14145-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOP	.50	.40	.30
CD4093BNSR	296-14145-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOP		308.00/2,000	
CD4093BPW	296-14146-5-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	.55	.44	.33
CD4093BPWR	296-13873-1-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP	.50	.40	.30
CD4093BPWR	296-13873-2-ND	Quad 2-Input NAND Schmitt Trigger	14-TSSOP		308.00/2,000	
CD4094BE	296-2069-5-ND	8-Bit Shift Register with Latch	16-Dip	.52	.39	.30
CD4094BPWR	296-13860-1-ND	8-Bit Shift Register with Latch	16-TSSOP	.55	.44	.33
CD4094BPWR	296-13860-2-ND	8-Bit Shift Register with Latch	16-TSSOP		308.00/2,000	
CD4097BE	296-3525-5-ND	Diff. 8-Channel Analog Mux/Demux	24-Dip	1.88	1.50	1.13
CD4098BE	296-3526-5-ND	Dual Monostable Multivibrator	16-Dip	.53	.40	.30
CD4098BM	296-16736-5-ND	Dual Monostable Multivibrator	16-SOIC	.48	.36	.27
CD4099BE	296-2070-5-ND	8-Bit Addressable Latch	16-Dip	.53	.40	.30
CD4099BPWR	296-9407-1-ND	8-Bit Addressable Latch	16-TSSOP	.48	.36	.27
CD4099BPWR	296-9407-2-ND	8-Bit Addressable Latch	16-TSSOP		320.00/2,000	
CD4502BE	296-2166-5-ND	CMOS Strobed Hex Inverter/Buffer	16-Dip	.48	.36	.27
CD4502BNSR	296-14148-1-ND	Strobed Hex Inverter/Buffer	16-SOP	.48	.36	.27
CD4502BNSR	296-14148-2-ND	Strobed Hex Inverter/Buffer	16-SOP		320.00/2,000	
CD4503BE	296-2071-5-ND	Tri-State Hex Buffer	16-Dip	.53	.40	.30
CD4504BE	296-3527-5-ND	Hex Voltage-Level Shifter	16-Dip	.80	.60	.45
CD4504BM96	296-14150-1-ND	Hex Voltage-Level Shifter	16-SOIC	.80	.60	.45
CD4504BM96	296-14150-2-ND	Hex Voltage-Level Shifter	16-SOIC		650.00/2,500	
CD4504BPWR	296-12010-1-ND	Hex Voltage-Level Shifter	16-TSSOP	.80	.60	.45
CD4504BPWR	296-12010-2-ND	Hex Voltage-Level Shifter	16-TSSOP		532.00/2,000	
CD4508BE	296-14151-5-ND	Dual 4-Bit Latch	24-Dip	1.55	1.24	.93
CD4510BNSR	296-14152-1-ND	BCD Presettable Up/Down Counter	16-SOP	.52	.39	.30
CD4510BNSR	296-14152-2-ND	BCD Presettable Up/Down Counter	16-SOP		346.00/2,000	
CD4510BPWR	296-14153-1-ND	BCD Presettable Up/Down Counter	16-TSSOP	.52	.39	.30
CD4510BPWR	296-14153-2-ND	BCD Presettable Up/Down Counter	16-TSSOP		346.00/2,000	
CD4511BE	296-2072-5-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-Dip	.65	.52	.39
CD4511BNSR	296-3528-1-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-SOP	.48	.36	.27
CD4511BNSR	296-3528-2-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-SOP		320.00/2,000	
CD4511BPWR	296-3529-1-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-TSSOP	.48	.36	.27
CD4511BPWR	296-3529-2-ND	BCD-to-7 Segment LED Latch/Decoder/Driver	16-TSSOP		336.00/2,000	
CD4512BE	296-2073-5-ND	8-Channel Data Selector	16-Dip	.52	.39	.30
CD4512BM96	296-16676-1-ND	8-Channel Data Selector	16-SOIC	.55	.44	.33
CD4512BM96	296-16676-2-ND	8-Channel Data Selector	16-SOIC		372.50/2,500	
CD4514BE	296-2074-5-ND	4-Bit Latch/Line Decoder	24-Dip	1.14	.95	.76
CD4514BM	296-14282-5-ND	4-Bit Latch/Line Decoder	24-SOIC	.80	.60	.45
CD4515BE	296-2168-5-ND	4-Bit Latch/Line Decoder	24-Dip	.90	.75	.60
CD4515BM	296-14284-5-ND	4-Bit Latch/Line Decoder	24-SOIC	.80	.60	.45
CD4516BE	296-2075-5-ND	Binary Up/Down Counter	16-Dip	.64	.48	.36
CD4516BPWR	296-3530-1-ND	Binary Up/Down Counter	16-TSSOP	.64	.48	.36
CD4516BPWR	296-3530-2-ND	Binary Up/Down Counter	16-TSSOP		426.00/2,000	
CD4517BE	296-14285-5-ND	Dual 64-Stage Static Shift Register	16-Dip	1.25	1.00	.75

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
CD4518BE	296-2076-5-ND	Dual BCD Up Counter	16-Dip	.53	.40	.30
CD4518BNSR	296-14157-1-ND	Dual BCD Up Counter	16-SOP	.48	.36	.27
CD4518BNSR	296-14157-2-ND	Dual BCD Up Counter	16-SOP		320.00/2,000	
CD4520BE	296-2077-5-ND	Dual Binary Up Counter	16-Dip	.48	.36	.27
CD4521BE	296-14158-5-ND	24-Stage Frequency Divider	16-Dip	.76	.57	.43
CD4522BE	296-3531-5-ND	Programmable BCD Divide-by-N Counter	16-Dip	.53	.40	.30
CD4527BE	296-3532-5-ND	BCD Rate Multiplier	16-Dip	.64	.48	.36
CD4527BNSR	296-14159-1-ND	BCD Rate Multiplier	16-SOP	.56	.42	.32
CD4527BNSR	296-14159-2-ND	BCD Rate Multiplier	16-SOP		372.00/2,000	
CD4527BPWR	296-14160-1-ND	BCD Rate Multiplier	16-TSSOP	.56	.42	.32
CD4527BPWR	296-14160-2-ND	BCD Rate Multiplier	16-TSSOP		372.00/2,000	
CD4532BE	296-3533-5-ND	8-Bit Priority Encoder	16-Dip	.48	.36	.27
CD4532BPWR	296-14161-1-ND	8-Bit Priority Encoder	16-TSSOP	.48	.36	.27
CD4532BPWR	296-14161-2-ND	8-Bit Priority Encoder	16-TSSOP		320.00/2,000	
CD4536BE	296-3534-5-ND	CMOS Programmable Timer	16-Dip	.72	.54	.41
CD4536BNSR	296-14304-1-ND	CMOS Programmable Timer	16-SOP	.64	.48	.36
CD4536BNSR	296-14304-2-ND	CMOS Programmable Timer	16-SOP		426.00/2,000	
CD4541BE	296-2078-5-ND	Programmable Timer	14-Dip	.55	.44	.33
CD4541BM	296-3535-5-ND	Programmable Timer	14-SOIC	.55	.44	.33
CD4541BM96	296-3536-1-ND	Programmable Timer	14-SOIC	.55	.44	.33
CD4541BM96	296-3536-2-ND	Programmable Timer	14-SOIC		372.50/2,500	
CD4543BE	296-2079-5-ND	BCD to 7-Segment Decoder Driver	16-Dip	.48	.36	.27
CD4543BPWR	296-17106-1-ND	BCD to 7-Segment Decoder Driver	16-TSSOP	.48	.36	.27
CD4543BPWR	296-17106-2-ND	BCD to 7-Segment Decoder Driver	16-TSSOP		320.00/2,000	
CD4555BE	296-14286-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.32	.42	.32
CD4556BE	296-3537-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.72	.54	.41
CD4572UBE	296-14287-5-ND	CMOS Hex Gate	16-Dip	.99	.83	.66
CD4585BE	296-2080-5-ND	4-Bit Magnitude Comparator	16-Dip	.72	.54	.41
CD4724BE	296-2169-5-ND	8-Bit Addressable Latch	16-Dip	.80	.60	.45
CD4724BPWR	296-14162-1-ND	8-Bit Addressable Latch	16-TSSOP	.80	.60	.45
CD4724BPWR	296-14162-2-ND	8-Bit Addressable Latch	16-TSSOP		532.00/2,000	
CD14538BE	296-14074-5-ND	Dual Precision Monostable Multivibrator	16-Dip	.80	.60	.45
CD14538BNSR	296-14075-1-ND	Dual Precision Monostable Multivibrator	16-SOP	.80	.60	.45
CD14538BNSR	296-14075-2-ND	Dual Precision Monostable Multivibrator	16-SOP		532.00/2,000	
CD14538BPWR	296-12018-1-ND	CMOS Dual Precision Monostable Multivibrator	16-TSSOP	.80	.60	.45
CD14538BPWR	296-12018-2-ND	CMOS Dual Precision Monostable Multivibrator	16-TSSOP		532.00/2,000	
CD40102BE	296-14079-5-ND	2-Decade BCD 8-Stage Sync. Down Counter	16-Dip	.96	.80	.64
CD40102BPWR	296-14241-1-ND	2-Decade BCD 8-Stage Sync. Down Counter	16-TSSOP	.96	.80	.64
CD40102BPWR	296-14241-2-ND	2-Decade BCD 8-Stage Sync. Down Counter	16-TSSOP		852.00/2,000	
CD40103BE	296-14080-5-ND	8-Bit Binary 8-Stage Sync. Down Counter	16-Dip	.96	.80	.64
CD40105BE	296-14242-5-ND	CMOS FIFO Register	16-Dip	1.28	1.02	.77
CD40106BE	296-3503-5-ND	Hex Schmitt Trigger	14-Dip	.50	.40	.30
CD40106BM96	296-14081-1-ND	Hex Schmitt Trigger	14-SOIC	.50	.40	.30
CD40106BM96	296-14081-2-ND	Hex Schmitt Trigger	14-SOIC		337.50/2,500	
CD40106BPWR	296-14082-1-ND	Hex Schmitt Trigger	14-TSSOP	.50	.40	.30
CD40106BPWR	296-14082-2-ND	Hex Schmitt Trigger	14-TSSOP		280.00/2,000	
CD40107BE	296-3504-5-ND	Dual 2-Input NAND Buffer/Driver	8-Dip	.56	.42	.32
CD40107BPSR	296-14083-1-ND	Dual 2-Input NAND Buffer/Driver	8-SOP	.56	.42	.32
CD40107BPSR	296-14083-2-ND	Dual 2-Input NAND Buffer/Driver	8-SOP		372.00/2,000	
CD40109BE	296-3505-5-ND	Quad Low-High Voltage Level Shifter	16-Dip	.80	.60	.45
CD40109BPWR	296-12163-1-ND	Quad Low-High Voltage Level Shifter	16-TSSOP	1.14	.95	.76
CD40109BPWR	296-12163-2-ND	Quad Low-High Voltage Level Shifter	16-TSSOP		532.00/2,000	
CD40110BE	296-3506-5-ND	Decade Up-Down Counter/Latch/Display Driver	16-Dip	1.50	1.20	.90
CD40117BE	296-14244-5-ND	Programmable Dual 4-Bit Terminator	14-Dip	.96	.72	.54
CD40147BE	296-14247-5-ND	10-4 BCD Priority Encoder	16-Dip	1.14	.95	.76
CD40161BE	296-2170-5-ND	Synchronous 4-Bit Binary Counter	16-Dip	.56	.42	.32
CD40161BNSR	296-14091-1-ND	Synchronous 4-Bit Binary Counter	16-SOP	.56	.42	.32
CD40161BNSR	296-14091-2-ND	Synchronous 4-Bit Binary Counter	16-SOP		372.00/2,000	
CD40161BPWR	296-14249-1-ND	Synchronous 4-Bit Binary Counter	16-TSSOP	.56	.42	.32
CD40161BPWR	296-14249-2-ND	Synchronous 4-Bit Binary Counter	16-TSSOP		372.00/2,000	
CD40174BE	296-3508-5-ND	Hex D-Type Flip-Flop	16-Dip	.52	.39	.30
CD40175BE	296-14251-5-ND	Quad D-Type Flip-Flop	16-Dip	.48	.36	.27
CD40175BPWR	296-14093-1-ND	Quad D-Type Flip-Flop	16-TSSOP	.48	.36	.27
CD40175BPWR	296-14093-2-ND	Quad D-Type Flip-Flop	16-TSSOP		320.00/2,000	
CD40192BE	296-3509-5-ND	Presettable Up/Down BCD Counter (Dual Clock with Reset)	16-Dip	.56	.42	.32
CD40192BNSR	296-14096-1-ND	Presettable Up/Down Counter	16-SOP	.56	.42	.32
CD40192BNSR	296-14096-2-ND	Presettable Up/Down Counter	16-SOP		372.00/2,000	
CD40193BE	296-3510-5-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-Dip	.72	.54	.41
CD40193BPWR	296-14253-1-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-TSSOP	.64	.48	.36
CD40193BPWR	296-14253-2-ND	Presettable Up/Down Binary Counter (Dual Clock with Reset)	16-TSSOP		426.00/2,000	
CD40194BE	296-14254-5-ND	4-Bit Bidirectional Univ. Shift Register	16-Dip	.78	.65	.52
CD40257BE	296-14259-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.80	.60	.45
		ABT Family				
CABT16245AMDLREP	296-19490-1-ND	Tri-State 16-Bit Bus Transceiver ***NEW!***	48-SSOP	4.50	3.60	2.80
CABT16245AMDLREP	296-19490-2-ND	Tri-State 16-Bit Bus Transceiver ***NEW!***	48-SSOP		2550.00/1,000	
SN74ABT125D	296-1019-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.64	.48	.36
SN74ABT125DR	296-1019-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.64	.48	.36
SN74ABT125DR	296-1019-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		520.00/2,500	
SN74ABT125DBR	296-3875-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.64	.48	.36
SN74ABT125DBR	296-3875-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		426.00/2,000	
SN74ABT125N	296-3876-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.64	.48	.36
SN74ABT125PWR	296-3877-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.70	.53	.40
SN74ABT125PWR	296-3877-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		468.00/2,000	
SN74ABT125RGYR	296-13888-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.80	.60	.45
SN74ABT125RGYR	296-13888-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN		266.00/1,000	
SN74ABT126DR	296-1020-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.64	.48	.36
SN74ABT126DR	296-1020-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		520.00/2,500	
SN74ABT126DBR	296-3878-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.64	.48	.36

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABT126DBR	296-3878-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		426.00/2,000	
SN74ABT126N	296-3879-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.64	.48	.36
SN74ABT126PWR	296-3880-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.70	.53	.40
SN74ABT126PWR	296-3880-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		468.00/2,000	
SN74ABT126RGYR	296-13889-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.80	.60	.45
SN74ABT126RGYR	296-13889-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN		266.00/1,000	
SN74ABT240ADBR	296-3959-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74ABT240ADBR	296-3959-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		586.00/2,000	
SN74ABT240ADW	296-3960-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT240ADWR	296-14662-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT240ADWR	296-14662-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		586.00/2,000	
SN74ABT240AN	296-3961-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.88	.66	.50
SN74ABT240APWR	296-3962-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.88	.66	.50
SN74ABT240APWR	296-3962-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		586.00/2,000	
SN74ABT241ADBR	296-3963-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74ABT241ADBR	296-3963-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		586.00/2,000	
SN74ABT241ADW	296-3964-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT241ADWR	296-14663-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT241ADWR	296-14663-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		586.00/2,000	
SN74ABT241AN	296-3965-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.88	.66	.50
SN74ABT241APWR	296-3966-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.88	.66	.50
SN74ABT241APWR	296-3966-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		586.00/2,000	
SN74ABT244ADBR	296-1037-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.80	.60	.45
SN74ABT244ADBR	296-1037-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		532.00/2,000	
SN74ABT244ADW	296-1038-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74ABT244ADWR	296-1038-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74ABT244ADWR	296-1038-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		532.00/2,000	
SN74ABT244AN	296-3967-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.80	.60	.45
SN74ABT244ANSR	296-15878-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.80	.60	.45
SN74ABT244ANSR	296-15878-2-ND	Tri-State Octal Buffer/Driver	20-SOP		532.00/2,000	
SN74ABT244APWR	296-3968-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.80	.60	.45
SN74ABT244APWR	296-3968-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		532.00/2,000	
SN74ABT245BDBR	296-1039-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.72	.54	.41
SN74ABT245BDBR	296-1039-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		478.00/2,000	
SN74ABT245BDGVR	296-3969-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.80	.60	.45
SN74ABT245BDGVR	296-3969-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP		532.00/2,000	
SN74ABT245BDW	296-1040-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.72	.54	.41
SN74ABT245BDWR	296-1040-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.72	.54	.41
SN74ABT245BDWR	296-1040-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		478.00/2,000	
SN74ABT245BGQNR	296-12461-1-ND	Tri-State Octal Bus Transceiver	20-VFBGA	1.14	.95	.76
SN74ABT245BGQNR	296-12461-2-ND	Tri-State Octal Bus Transceiver	20-VFBGA		505.00/1,000	
SN74ABT245BN	296-3970-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.72	.54	.41
SN74ABT245BNSR	296-15879-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.72	.54	.41
SN74ABT245BNSR	296-15879-2-ND	Tri-State Octal Bus Transceiver	20-SOP		478.00/2,000	
SN74ABT245BPWR	296-3971-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.72	.54	.41
SN74ABT245BPWR	296-3971-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP		478.00/2,000	
SN74ABT245BRGYR	296-13890-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.88	.66	.50
SN74ABT245BRGYR	296-13890-2-ND	Tri-State Octal Bus Transceiver	20-QFN		293.00/1,000	
SN74ABT273DBR	296-1041-1-ND	Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ABT273DBR	296-1041-2-ND	Octal D-Type Flip-Flop	20-SSOP		532.00/2,000	
SN74ABT273DW	296-1042-5-ND	Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT273DWR	296-1042-1-ND	Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT273DWR	296-1042-2-ND	Octal D-Type Flip-Flop	20-SOIC		532.00/2,000	
SN74ABT273N	296-3972-5-ND	Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
SN74ABT273PWR	296-3973-1-ND	Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ABT273PWR	296-3973-2-ND	Octal D-Type Flip-Flop	20-TSSOP		532.00/2,000	
SN74ABT373DBR	296-4002-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.80	.60	.45
SN74ABT373DBR	296-4002-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP		532.00/2,000	
SN74ABT373DW	296-1043-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT373DWR	296-1043-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT373DWR	296-1043-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC		532.00/2,000	
SN74ABT373N	296-4003-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.88	.66	.50
SN74ABT373NSR	296-15880-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.80	.60	.45
SN74ABT373NSR	296-15880-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP		532.00/2,000	
SN74ABT373PWR	296-4004-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.80	.60	.45
SN74ABT373PWR	296-4004-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP		532.00/2,000	
SN74ABT374ADBR	296-4005-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ABT374ADBR	296-4005-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP		532.00/2,000	
SN74ABT374ADW	296-1044-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT374ADWR	296-1044-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT374ADWR	296-1044-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		532.00/2,000	
SN74ABT374AN	296-4006-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
SN74ABT374APWR	296-4007-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ABT374APWR	296-4007-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		532.00/2,000	
SN74ABT377ADBR	296-4008-1-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SSOP	.80	.60	.45
SN74ABT377ADBR	296-4008-2-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SSOP		532.00/2,000	
SN74ABT377ADWR	296-4009-1-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SOIC	.80	.60	.45
SN74ABT377ADWR	296-4009-2-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SOIC		532.00/2,000	
SN74ABT377AN	296-4010-5-ND	Octal D-Type Flip-Flop w/Clock Enable	20-Dip	.80	.60	.45
SN74ABT377APWR	296-4011-1-ND	Octal D-Type Flip-Flop w/Clock Enable	20-TSSOP	.80	.60	.45
SN74ABT377APWR	296-4011-2-ND	Octal D-Type Flip-Flop w/Clock Enable	20-TSSOP		532.00/2,000	
SN74ABT533ADBR	296-4012-1-ND	Tri-State Transparent D-Type Latch	20-SSOP	.80	.60	.45
SN74ABT533ADBR	296-4012-2-ND	Tri-State Transparent D-Type Latch	20-SSOP		532.00/2,000	
SN74ABT533ADW	296-4013-5-ND	Tri-State Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT533ADWR	296-4013-1-ND	Tri-State Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT533ADWR	296-4013-2-ND	Tri-State Transparent D-Type Latch	20-SOIC		532.00/2,000	
SN74ABT533APWR	296-4014-1-ND	Tri-State Transparent D-Type Latch	20-TSSOP	.80	.60	.45
SN74ABT533APWR	296-4014-2-ND	Tri-State Transparent D-Type Latch	20-TSSOP		532.00/2,000	
SN74ABT534ADBR	296-4015-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ABT534ADBR	296-4015-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP		532.00/2,000	
SN74ABT534ADW	296-4016-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT534ADWR	296-4016-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT534ADWR	296-4016-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		532.00/2,000	
SN74ABT534APWR	296-4017-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ABT534APWR	296-4017-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		532.00/2,000	
SN74ABT540DBR	296-4022-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74ABT540DBR	296-4022-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		586.00/2,000	
SN74ABT540DW	296-4023-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT540DWR	296-14667-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74ABT540DWR	296-14667-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		586.00/2,000	

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABT540N	296-4024-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.96	.72	.54
SN74ABT541BDBR	296-4025-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.92	.69	.52
SN74ABT541BDBR	296-4025-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		612.00/2,000	
SN74ABT541BDW	296-4026-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.92	.69	.52
SN74ABT541BDWR	296-14668-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.92	.69	.52
SN74ABT541BDWR	296-14668-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		612.00/2,000	
SN74ABT541BN	296-4027-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.96	.72	.54
SN74ABT541BPWR	296-4028-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.92	.69	.52
SN74ABT541BPWR	296-4028-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		612.00/2,000	
SN74ABT543ADBR	296-4029-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	.90	.75	.60
SN74ABT543ADBR	296-4029-2-ND	Tri-State Octal Registered Transceiver	24-SSOP		798.00/2,000	
SN74ABT543ADW	296-4030-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	.90	.75	.60
SN74ABT543ADWR	296-14669-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	.90	.75	.60
SN74ABT543ADWR	296-14669-2-ND	Tri-State Octal Registered Transceiver	24-SOIC		798.00/2,000	
SN74ABT543ANT	296-4031-5-ND	Tri-State Octal Registered Transceiver	24-Dip	1.35	1.13	.90
SN74ABT543APWR	296-4032-1-ND	Tri-State Octal Registered Transceiver	24-TSSOP	1.05	.88	.70
SN74ABT543APWR	296-4032-2-ND	Tri-State Octal Registered Transceiver	24-TSSOP		932.00/2,000	
SN74ABT573ADBR	296-4033-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.80	.60	.45
SN74ABT573ADBR	296-4033-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP		532.00/2,000	
SN74ABT573ADW	296-1045-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT573ADWR	296-1045-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74ABT573ADWR	296-1045-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC		532.00/2,000	
SN74ABT573AGQNR	296-12087-1-ND	Tri-St. Octal Transparent D-Type Latch	20-VFBGA	1.14	.95	.76
SN74ABT573AGQNR	296-12087-2-ND	Tri-St. Octal Transparent D-Type Latch	20-VFBGA		505.00/1,000	
SN74ABT573ARGYR	296-13891-1-ND	Tri-State Octal D-Type Latch	20-QFN	.92	.69	.52
SN74ABT573ARGYR	296-13891-2-ND	Tri-State Octal D-Type Latch	20-QFN		306.00/1,000	
SN74ABT573AN	296-4034-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.80	.60	.45
SN74ABT573APWR	296-4035-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.80	.60	.45
SN74ABT573APWR	296-4035-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP		532.00/2,000	
SN74ABT574ADBR	296-4036-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ABT574ADBR	296-4036-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP		532.00/2,000	
SN74ABT574ADW	296-1046-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT574ADWR	296-1046-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ABT574ADWR	296-1046-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		532.00/2,000	
SN74ABT574AGQNR	296-12088-1-ND	Tri-State Octal D-Type Flip-Flop	20-VFBGA	1.14	.95	.76
SN74ABT574AGQNR	296-12088-2-ND	Tri-State Octal D-Type Flip-Flop	20-VFBGA		505.00/1,000	
SN74ABT574AN	296-4038-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
SN74ABT574APWR	296-4039-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ABT574APWR	296-4039-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		532.00/2,000	
SN74ABT574ARGYR	296-13892-1-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	.92	.69	.52
SN74ABT574ARGYR	296-13892-2-ND	Tri-State Octal D-Type Flip-Flop	20-QFN		306.00/1,000	
SN74ABT620DBR	296-4040-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.35	1.13	.90
SN74ABT620DBR	296-4040-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		1198.00/2,000	
SN74ABT620DW	296-4041-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74ABT620N	296-4042-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.35	1.13	.90
SN74ABT623DBR	296-4043-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.35	1.13	.90
SN74ABT623DBR	296-4043-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		1198.00/2,000	
SN74ABT623DW	296-4044-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74ABT623DWR	296-14672-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74ABT623DWR	296-14672-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		1198.00/2,000	
SN74ABT623N	296-4045-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.35	1.13	.90
SN74ABT640DBR	296-4046-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.35	1.13	.90
SN74ABT640DBR	296-4046-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		1198.00/2,000	
SN74ABT640DW	296-4047-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74ABT640DWR	296-14673-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74ABT640DWR	296-14673-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		1198.00/2,000	
SN74ABT640N	296-4048-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.35	1.13	.90
SN74ABT640PWR	296-4049-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.35	1.13	.90
SN74ABT640PWR	296-4049-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP		1198.00/2,000	
SN74ABT646ADBR	296-4050-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.38	1.15	.92
SN74ABT646ADBR	296-4050-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP		1224.00/2,000	
SN74ABT646ADGVR	296-4051-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TVSOP		1224.00/2,000	
SN74ABT646ADW	296-4052-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.38	1.15	.92
SN74ABT646ADWR	296-14674-1-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.38	1.15	.92
SN74ABT646ADWR	296-14674-2-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC		1224.00/2,000	
SN74ABT646ANT	296-4053-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.38	1.15	.92
SN74ABT646DBR	296-4054-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.38	1.15	.92
SN74ABT646DBR	296-4054-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP		1224.00/2,000	
SN74ABT646DGVR	296-4055-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TVSOP	1.38	1.15	.92
SN74ABT646DGVR	296-4055-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TVSOP		1224.00/2,000	
SN74ABT646DW	296-4056-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.38	1.15	.92
SN74ABT646NT	296-4057-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	2.48	1.98	1.54
SN74ABT646PWR	296-4058-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.38	1.15	.92
SN74ABT646PWR	296-4058-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP		1224.00/2,000	
SN74ABT651DBR	296-4059-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	3.15	2.52	1.96
SN74ABT651DBR	296-4059-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP		3570.00/2,000	
SN74ABT651DW	296-4060-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	3.15	2.52	1.96
SN74ABT651NT	296-4061-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	3.15	2.52	1.96
SN74ABT652ADBR	296-4062-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	1.41	1.18	.94
SN74ABT652ADBR	296-4062-2-ND	Tri-State Octal Registered Transceiver	24-SSOP		1250.00/2,000	
SN74ABT652ADW	296-1047-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.41	1.18	.94
SN74ABT652ADWR	296-1047-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.41	1.18	.94
SN74ABT652ADWR	296-1047-2-ND	Tri-State Octal Registered Transceiver	24-SOIC		1250.00/2,000	
SN74ABT652ANT	296-4063-5-ND	Tri-State Octal Registered Transceiver	24-Dip	1.55	1.24	.93
SN74ABT652DBR	296-4064-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	1.41	1.18	.94
SN74ABT652DBR	296-4064-2-ND	Tri-State Octal Registered Transceiver	24-SSOP		1250.00/2,000	
SN74ABT652DW	296-4065-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.41	1.18	.94
SN74ABT652DWR	296-4065-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.41	1.18	.94
SN74ABT652DWR	296-4065-2-ND	Tri-State Octal Registered Transceiver	24-SOIC		1250.00/2,000	
SN74ABT652NT	296-4066-5-ND	Tri-State Octal Transceiver/Register	24-Dip	1.41	1.18	.94
SN74ABT657ADBR	296-4067-1-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SSOP	2.05	1.64	1.23
SN74ABT657ADBR	296-4067-2-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SSOP		2132.00/2,000	
SN74ABT657ADW	296-4068-5-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SOIC	2.05	1.64	1.23
SN74ABT657ADWR	296-14676-1-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SOIC	2.05	1.64	1.23
SN74ABT657ADWR	296-14676-2-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-SOIC		2132.00/2,000	
SN74ABT657ANT	296-4069-5-ND	Tri-State 8-Bit Octal Transceiver with Parity Generator	24-Dip	2.05	1.64	1.23

(Continued)

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T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
SN74ABT821ADBR	296-4088-1-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SSOP	1.45	1.16	.87
SN74ABT821ADBR	296-4088-2-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SSOP	1508.00/2,000		
SN74ABT821ADW	296-4089-5-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SOP	1.45	1.16	.87
SN74ABT821ADWR	296-14677-1-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SOIC	1.45	1.16	.87
SN74ABT821ADWR	296-14677-2-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SOIC	1508.00/2,000		
SN74ABT821ANT	296-4090-5-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-Dip	1.45	1.16	.87
SN74ABT823DBR	296-1048-1-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SSOP	1.45	1.16	.87
SN74ABT823DBR	296-1048-2-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SSOP	1508.00/2,000		
SN74ABT823DW	296-4091-5-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SO IC	1.45	1.16	.87
SN74ABT823DWR	296-14678-1-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SOIC	1.45	1.16	.87
SN74ABT823DWR	296-14678-2-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-SOIC	1508.00/2,000		
SN74ABT823NT	296-4092-5-ND	Tri-State 9-Bit Bus Interface Flip-Flop	24-Dip	1.45	1.16	.87
SN74ABT827DBR	296-4094-1-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	1.45	1.16	.87
SN74ABT827DBR	296-4094-2-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	1508.00/2,000		
SN74ABT827DW	296-4095-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.45	1.16	.87
SN74ABT827DWR	296-14680-1-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.45	1.16	.87
SN74ABT827DWR	296-14680-2-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1508.00/2,000		
SN74ABT827NT	296-4096-5-ND	Tri-State 10-Bit Buffer/Driver	24-Dip	1.45	1.16	.87
SN74ABT827PWR	296-4097-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	1.45	1.16	.87
SN74ABT827PWR	296-4097-2-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	1508.00/2,000		
SN74ABT833DW	296-4098-5-ND	8-9-Bit Parity Bus Transceiver	24-SOIC	1.38	1.10	.83
SN74ABT833NT	296-4099-5-ND	8-9-Bit Parity Bus Transceiver	24-Dip	1.38	1.10	.83
SN74ABT841ADBR	296-1049-1-ND	Tri-State 10-Bit Bus D-Type Latch	24-SSOP	1.38	1.10	.83
SN74ABT841ADBR	296-1049-2-ND	Tri-State 10-Bit Bus D-Type Latch	24-SSOP	1430.00/2,000		
SN74ABT841ADW	296-4100-5-ND	Tri-State 10-Bit Bus D-Type Latch	24-SOIC	1.38	1.10	.83
SN74ABT841ADWR	296-14681-1-ND	Tri-State 10-Bit Bus D-Type Latch	24-SOIC	1.38	1.10	.83
SN74ABT841ADWR	296-14681-2-ND	Tri-State 10-Bit Bus D-Type Latch	24-SOIC	1430.00/2,000		
SN74ABT841ANT	296-4101-5-ND	Tri-State 10-Bit Bus D-Type Latch	24-Dip	1.38	1.10	.83
SN74ABT841APWR	296-4102-1-ND	Tri-State 10-Bit Bus D-Type Latch	24-TSSOP	1.38	1.10	.83
SN74ABT841APWR	296-4102-2-ND	Tri-State 10-Bit Bus D-Type Latch	24-TSSOP	1430.00/2,000		
SN74ABT843DBR	296-4103-1-ND	Tri-State 9-Bit Bus D-Type Latch	24-SSOP	1.38	1.10	.83
SN74ABT843DBR	296-4103-2-ND	Tri-State 9-Bit Bus D-Type Latch	24-SSOP	1430.00/2,000		
SN74ABT843NT	296-4104-5-ND	Tri-State 9-Bit Bus D-Type Latch	24-Dip	1.38	1.10	.83
SN74ABT853DW	296-4105-5-ND	8-9-Bit Parity Bus Transceiver	24-SOIC	4.28	3.42	2.66
SN74ABT853NT	296-4106-5-ND	8-9-Bit Parity Bus Transceiver	24-Dip	4.28	3.42	2.66
SN74ABT861NT	296-4109-5-ND	Tri-State 10-Bit Transceiver	24-Dip	2.05	1.64	1.23
SN74ABT863DBR	296-4110-1-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	2.05	1.64	1.23
SN74ABT863DBR	296-4110-2-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	2132.00/2,000		
SN74ABT863DWR	296-4111-1-ND	Tri-State 9-Bit Bus Transceiver	24-SOIC	2.05	1.64	1.23
SN74ABT863DWR	296-4111-2-ND	Tri-State 9-Bit Bus Transceiver	24-SOIC	2132.00/2,000		
SN74ABT2240ADBR	296-3945-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	.88	.66	.50
SN74ABT2240ADBR	296-3945-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	586.00/2,000		
SN74ABT2240ADW	296-3946-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2240ADWR	296-3946-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2240ADWR	296-3946-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	586.00/2,000		
SN74ABT2240ANSR	296-13128-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOP	.88	.66	.50
SN74ABT2240ANSR	296-13128-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOP	586.00/2,000		
SN74ABT2240APWR	296-3947-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	.96	.72	.54
SN74ABT2240APWR	296-3947-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	638.00/2,000		
SN74ABT2241DBR	296-3948-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	.88	.66	.50
SN74ABT2241DBR	296-3948-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	586.00/2,000		
SN74ABT2241DW	296-3949-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2241DWR	296-14660-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2241DWR	296-14660-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	586.00/2,000		
SN74ABT2241N	296-3950-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-Dip	.88	.66	.50
SN74ABT2241PWR	296-3951-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	.96	.72	.54
SN74ABT2241PWR	296-3951-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	638.00/2,000		
SN74ABT2244ADBR	296-1036-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	.88	.66	.50
SN74ABT2244ADBR	296-1036-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SSOP	586.00/2,000		
SN74ABT2244ADWR	296-3952-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2244ADWR	296-3952-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-SOIC	586.00/2,000		
SN74ABT2244AN	296-3953-5-ND	Tri-State Octal Buffer/Line/MOS Driver	20-Dip	.88	.66	.50
SN74ABT2244APWR	296-3954-1-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	.88	.66	.50
SN74ABT2244APWR	296-3954-2-ND	Tri-State Octal Buffer/Line/MOS Driver	20-TSSOP	586.00/2,000		
SN74ABT2245DBR	296-3955-1-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-SSOP	.88	.66	.50
SN74ABT2245DBR	296-3955-2-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-SSOP	586.00/2,000		
SN74ABT2245DW	296-3956-5-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2245DWR	296-14661-1-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-SOIC	.88	.66	.50
SN74ABT2245DWR	296-14661-2-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-SOIC	586.00/2,000		
SN74ABT2245N	296-3957-5-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-Dip	.88	.66	.50
SN74ABT2245PWR	296-3958-1-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-TSSOP	.88	.66	.50
SN74ABT2245PWR	296-3958-2-ND	Tri-State Octal Xcvr./Line/MOS Driver	20-TSSOP	586.00/2,000		
SN74ABT2827DWR	296-3974-1-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.45	1.16	.87
SN74ABT2827DWR	296-3974-2-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1508.00/2,000		
SN74ABT2952ADBR	296-3975-1-ND	Tri-State Octal Bus Transceiver/Register	24-SSOP	4.50	3.60	2.80
SN74ABT2952ADBR	296-3975-2-ND	Tri-State Octal Bus Transceiver/Register	24-SSOP	5100.00/2,000		
SN74ABT2952ADW	296-3976-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	4.50	3.60	2.80
SN74ABT2952ADWR	296-14665-1-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	4.50	3.60	2.80
SN74ABT2952ADWR	296-14665-2-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	5100.00/2,000		
SN74ABT2952ANT	296-3977-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	4.50	3.60	2.80
SN74ABT5400ADWR	296-4018-1-ND	Tri-State 11-Bit Line/Memory Driver	28-SOIC	3.60	2.88	2.24
SN74ABT5400ADWR	296-4018-2-ND	Tri-State 11-Bit Line/Memory Driver	28-SOIC	2040.00/1,000		
SN74ABT5401DW	296-4019-5-ND	Tri-State 11-Bit Line/Memory Driver	28-SOIC	3.60	2.88	2.24
SN74ABT5402ADWR	296-4020-1-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	3.89	3.12	2.43
SN74ABT5402ADWR	296-4020-2-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	2206.00/1,000		
SN74ABT5403DWR	296-4021-1-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	3.89	3.12	2.43
SN74ABT5403DWR	296-4021-2-ND	Tri-State 12-Bit Line/Memory Driver	28-SOIC	2206.00/1,000		
SN74ABT8245DW	296-4093-5-ND	Scan Test Device w/Octal Bus Transcvr.	24-SOIC	5.31	4.25	3.31
SN74ABT8245DWR	296-14679-1-ND	Scan Test Device w/Octal Bus Transcvr.	24-SOIC	5.31	4.25	3.31
SN74ABT8245DWR	296-14679-2-ND	Scan Test Device w/Octal Bus Transcvr.	24-SOIC	6018.00/2,000		
SN74ABT8543DL	296-4107-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SSOP	9.70	7.76	6.55
SN74ABT8543DW	296-4108-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SOIC	9.70	7.76	6.55
SN74ABT8646DL	296-4112-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SSOP	9.70	7.76	6.55
SN74ABT8646DW	296-4113-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SOIC	9.70	7.76	6.55
SN74ABT8652DL	296-4114-5-ND	Scan Test Device with Octal Bus Transceiver/Register	28-SSOP	9.70	7.76	6.55
SN74ABT8952DL	296-4115-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SSOP	9.70	7.76	6.55
SN74ABT8952DW	296-4116-5-ND	Scan Test Device w/Octal Bus Transcvr.	28-SOIC	9.70	7.76	6.55
SN74ABT8996DW	296-4117-5-ND	10-Bit Addressable Scan Port	24-SOIC	8.33	7.50	6.65
SN74ABT8996DWR	296-4117-1-ND	10-Bit Addressable Scan Port	24-SOIC	8.33	7.50	6.65
SN74ABT8996DWR	296-4117-2-ND	10-Bit Addressable Scan Port	24-SOIC	12350.00/2,000		
SN74ABT8996PWR	296-4118-1-ND	10-Bit Addressable Scan Port	24-TSSOP	8.33	7.50	6.65
SN74ABT8996PWR	296-4118-2-ND	10-Bit Addressable Scan Port	24-TSSOP	12350.00/2,000		
SN74ABT16240ADGGR	296-3882-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
SN74ABT16240ADGGR	296-3882-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ABT16240ADGVR	296-3883-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74ABT16240ADGVR	296-3883-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74ABT16240ADLR	296-3884-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16240ADLR	296-3884-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ABT16241ADGGR	296-3885-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ABT16241ADGGR	296-3885-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ABT16241ADGVR	296-3886-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74ABT16241ADGVR	296-3886-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74ABT16241ADL	296-3887-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16241ADLR	296-14651-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16241ADLR	296-14651-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ABT16244ADGGR	296-1023-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ABT16244ADGGR	296-1023-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ABT16244ADGVR	296-3888-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74ABT16244ADGVR	296-3888-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74ABT16244ADL	296-1024-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16244ADLR	296-1024-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT16244ADLR	296-1024-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ABT16245ADGGR	296-1025-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.20	1.00	.80
SN74ABT16245ADGGR	296-1025-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1064.00/2,000		
SN74ABT16245ADGVR	296-3889-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.20	1.00	.80
SN74ABT16245ADGVR	296-3889-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1064.00/2,000		
SN74ABT16245ADL	296-1026-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ABT16245ADLR	296-1026-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ABT16245ADLR	296-1026-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	532.00/1,000		
SN74ABT16373ADGGR	296-3899-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.32	1.10	.88
SN74ABT16373ADGGR	296-3899-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1170.00/2,000		
SN74ABT16373ADL	296-1029-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.32	1.10	.88
SN74ABT16373ADLR	296-1029-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.32	1.10	.88
SN74ABT16373ADLR	296-1029-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	585.00/1,000		
SN74ABT16374ADGGR	296-3900-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.32	1.10	.88
SN74ABT16374ADGGR	296-3900-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1170.00/2,000		
SN74ABT16374ADL	296-1030-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.32	1.10	.88
SN74ABT16374ADLR	296-1030-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.32	1.10	.88
SN74ABT16374ADLR	296-1030-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	585.00/1,000		
SN74ABT16470DGGR	296-3901-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	8.00	6.40	5.40
SN74ABT16470DGGR	296-3901-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	10000.00/2,000		
SN74ABT16470DL	296-3902-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	9.80	7.84	6.62
SN74ABT16500BDGGR	296-3903-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2.59	2.07	1.61
SN74ABT16500BDGGR	296-3903-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2932.00/2,000		
SN74ABT16500BDL	296-3904-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2.59	2.07	1.61
SN74ABT16500BDLR	296-14654-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2.59	2.07	1.61
SN74ABT16500BDLR	296-14654-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1466.00/1,000		
SN74ABT16501DGGR	296-3905-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2.59	2.07	1.61
SN74ABT16501DGGR	296-3905-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	2932.00/2,000		
SN74ABT16501DLR	296-1031-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2.59	2.07	1.61
SN74ABT16501DLR	296-1031-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1466.00/1,000		
SN74ABT16540ADGGR	296-3906-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74ABT16540ADGGR	296-3906-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1560.00/2,000		
SN74ABT16540ADGVR	296-3907-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74ABT16540ADGVR	296-3907-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74ABT16540ADLR	296-14655-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74ABT16540ADLR	296-14655-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	780.00/1,000		
SN74ABT16541ADGGR	296-3909-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.35	1.13	.90
SN74ABT16541ADGGR	296-3909-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1198.00/2,000		
SN74ABT16541ADGVR	296-3910-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.35	1.13	.90
SN74ABT16541ADGVR	296-3910-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1198.00/2,000		
SN74ABT16541ADL	296-1032-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.35	1.13	.90
SN74ABT16541ADLR	296-1032-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.35	1.13	.90
SN74ABT16541ADLR	296-1032-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	599.00/1,000		
SN74ABT16543DGGR	296-3911-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1.50	1.20	.90
SN74ABT16543DGGR	296-3911-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1560.00/2,000		
SN74ABT16543DLR	296-1033-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.50	1.20	.90
SN74ABT16543DLR	296-1033-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	780.00/1,000		
SN74ABT16600DLR	296-3912-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	7.40	5.92	5.00
SN74ABT16600DLR	296-3912-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4625.00/1,000		
SN74ABT16601DGGR	296-1034-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	5.43	4.35	3.67
SN74ABT16601DGGR	296-1034-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	6792.00/2,000		
SN74ABT16601DL	296-3913-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	5.43	4.35	3.67
SN74ABT16601DLR	296-14656-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	5.43	4.35	3.67
SN74ABT16601DLR	296-14656-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3396.00/1,000		
SN74ABT16623DGGR	296-3914-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4.39	3.51	2.73
SN74ABT16623DGGR	296-3914-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4972.00/2,000		
SN74ABT16623DL	296-3915-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	4.39	3.51	2.73
SN74ABT16623DLR	296-3915-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	4.39	3.51	2.73
SN74ABT16623DLR	296-3915-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2486.00/1,000		
SN74ABT16640DGGR	296-3916-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	5.61	4.49	3.79
SN74ABT16640DGGR	296-3916-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	7012.00/2,000		
SN74ABT16640DLR	296-3917-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.66	4.53	3.82
SN74ABT16640DLR	296-3917-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	3536.00/1,000		
SN74ABT16646DGGR	296-3918-1-ND	Tri-State 16-Bit Bus Transcvr/Register	56-TSSOP	2.13	1.70	1.28
SN74ABT16646DGGR	296-3918-2-ND	Tri-State 16-Bit Bus Transcvr/Register	56-TSSOP	2210.00/2,000		
SN74ABT16646DLR	296-1035-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.13	1.70	1.28
SN74ABT16646DLR	296-1035-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1105.00/1,000		
SN74ABT16652DL	296-3919-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.93	2.34	1.82
SN74ABT16652DLR	296-14657-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.93	2.34	1.82
SN74ABT16652DLR	296-14657-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1658.00/1,000		
SN74ABT16657DGGR	296-3920-1-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-TSSOP	3.38	2.70	2.10
SN74ABT16657DGGR	296-3920-2-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-TSSOP	3826.00/2,000		
SN74ABT16657DLR	296-3921-1-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-SSOP	3.38	2.70	2.10
SN74ABT16657DLR	296-3921-2-ND	Tri-State 16-Bit Transceiver with Parity Gen/Checker	56-SSOP	1913.00/1,000		
SN74ABT16821DGGR	296-3922-1-ND	Tri-State 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3.38	2.70	2.10
SN74ABT16821DGGR	296-3922-2-ND	Tri-State 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3826.00/2,000		
SN74ABT16821DLR	296-3923-1-ND	Tri-State 20-Bit Bus-Interface Flip-Flop	56-SSOP	3.38	2.70	2.10
SN74ABT16821DLR	296-3923-2-ND	Tri-State 20-Bit Bus-Interface Flip-Flop	56-SSOP	1913.00/1,000		
SN74ABT16823DGGR	296-3924-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-TSSOP	2.36	1.89	1.47

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABT16823DGGR	296-3924-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-TSSOP	2678.00/2,000		
SN74ABT16823DLR	296-3925-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	2.36	1.89	1.47
SN74ABT16823DLR	296-3925-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	1339.00/1,000		
SN74ABT16825DL	296-3926-5-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	2.36	1.89	1.47
SN74ABT16825DLR	296-14658-1-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	2.36	1.89	1.47
SN74ABT16825DLR	296-14658-2-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	1339.00/1,000		
SN74ABT16827DLR	296-3928-1-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	2.36	1.89	1.47
SN74ABT16827DLR	296-3928-2-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	1339.00/1,000		
SN74ABT16833DLR	296-3929-1-ND	Dual 8-9 Bit Parity Bus Transceiver	56-SSOP	2.36	1.89	1.47
SN74ABT16833DLR	296-3929-2-ND	Dual 8-9 Bit Parity Bus Transceiver	56-SSOP	1339.00/1,000		
SN74ABT16841DL	296-3930-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	2.81	2.25	1.75
SN74ABT16841DLR	296-14659-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	2.81	2.25	1.75
SN74ABT16841DLR	296-14659-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	1594.00/1,000		
SN74ABT16843DGGR	296-3931-1-ND	Tri-State 18-Bit Bus-Interface D-Type Latch	56-TSSOP	2.70	2.16	1.68
SN74ABT16843DGGR	296-3931-2-ND	Tri-State 18-Bit Bus-Interface D-Type Latch	56-TSSOP	3060.00/2,000		
SN74ABT16843DLR	296-3932-1-ND	Tri-State 18-Bit Bus-Interface D-Type Latch	56-SSOP	2.70	2.16	1.68
SN74ABT16843DLR	296-3932-2-ND	Tri-State 18-Bit Bus-Interface D-Type Latch	56-SSOP	1530.00/1,000		
SN74ABT16853DLR	296-3933-1-ND	Dual 8-9 Bit Parity Transceiver	56-SSOP	8.00	6.40	5.40
SN74ABT16853DLR	296-3933-2-ND	Dual 8-9 Bit Parity Transceiver	56-SSOP	5000.00/1,000		
SN74ABT16863DLR	296-3934-1-ND	Tri-State 18-Bit Bus Transceiver	56-SSOP	6.20	4.96	4.19
SN74ABT16863DLR	296-3934-2-ND	Tri-State 18-Bit Bus Transceiver	56-SSOP	3875.00/1,000		
SN74ABT16952DGGR	296-3935-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	3.26	2.61	2.03
SN74ABT16952DGGR	296-3935-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	3698.00/2,000		
SN74ABT16952DLR	296-3936-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	3.26	2.61	2.03
SN74ABT16952DLR	296-3936-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1849.00/1,000		
SN74ABT18245ADGGR	296-3937-1-ND	Scan Test Device with 18-Bit Bus Transceiver	56-TSSOP	7.80	6.24	5.27
SN74ABT18245ADGGR	296-3937-2-ND	Scan Test Device with 18-Bit Bus Transceiver	56-TSSOP	9750.00/2,000		
SN74ABT18245ADL	296-3938-5-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	7.80	6.24	5.27
SN74ABT18245ADLR	296-3938-1-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	7.80	6.24	5.27
SN74ABT18245ADLR	296-3938-2-ND	Scan Test Device with 18-Bit Bus Transceiver	56-SSOP	4875.00/1,000		
SN74ABT18502PM	296-3939-ND	Scan Test Device with 18-Bit Registered Bus Transceiver	64-LQFP	14.99	13.50	11.97
SN74ABT18504PM	296-3940-ND	Scan Test Device with 20-Bit Universal Bus Transceiver	64-LQFP	13.33	12.00	10.64
SN74ABT18640DGGR	296-3941-1-ND	Scan Test Device with 18-Bit Inv. Bus Transceiver	56-TSSOP	10.16	9.15	8.12
SN74ABT18640DGGR	296-3941-2-ND	Scan Test Device with 18-Bit Inv. Bus Transceiver	56-TSSOP	15068.00/2,000		
SN74ABT18640DL	296-3942-5-ND	Scan Test Device with 18-Bit Inv. Bus Transceiver	56-SSOP	10.16	9.15	8.12
SN74ABT18646PM	296-3943-ND	Scan Test Device with 18-Bit Registered Transceiver	64-LQFP	15.24	13.73	12.17
SN74ABT18652PM	296-3944-ND	Scan Test Device with 18-Bit Registered Transceiver	64-LQFP	15.24	13.73	12.17
SN74ABT162244DGGR	296-9752-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ABT162244DGGR	296-9752-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ABT162244DGVR	296-3881-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.20	1.00	.80
SN74ABT162244DGVR	296-3881-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1064.00/2,000		
SN74ABT162244DL	296-1021-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT162244DLR	296-1021-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABT162244DLR	296-1021-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74ABT162245DGGR	296-9753-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.20	1.00	.80
SN74ABT162245DGGR	296-9753-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1064.00/2,000		
SN74ABT162245DL	296-9754-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ABT162245DLR	296-1022-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ABT162245DLR	296-1022-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	532.00/1,000		
SN74ABT162500DL	296-3890-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.71	2.97	2.31
SN74ABT162500DLR	296-14652-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.71	2.97	2.31
SN74ABT162500DLR	296-14652-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2104.00/1,000		
SN74ABT162501DGGR	296-3891-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	3.71	2.97	2.31
SN74ABT162501DGGR	296-3891-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	4208.00/2,000		
SN74ABT162501DLR	296-1027-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	3.71	2.97	2.31
SN74ABT162501DLR	296-1027-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2104.00/1,000		
SN74ABT162601DGG	296-3892-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	4.82	3.86	3.00
SN74ABT162601DGGR	296-3892-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	5458.00/2,000		
SN74ABT162601DLR	296-1028-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4.82	3.86	3.00
SN74ABT162601DLR	296-1028-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2729.00/1,000		
SN74ABT162823ADGGR	296-3893-1-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	2.93	2.34	1.82
SN74ABT162823ADGGR	296-3893-2-ND	Tri-St. 18-Bit Bus-Interface Flip-Flop	56-TSSOP	3316.00/2,000		
SN74ABT162823ADLR	296-3894-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	2.93	2.34	1.82
SN74ABT162823ADLR	296-3894-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	1658.00/1,000		
SN74ABT162827ADGGR	296-3895-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	4.73	3.78	2.94
SN74ABT162827ADGGR	296-3895-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	5356.00/2,000		
SN74ABT162827ADL	296-3896-5-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	3.60	2.88	2.24
SN74ABT162841DGGR	296-3897-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	2.70	2.16	1.68
SN74ABT162841DGGR	296-3897-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	3060.00/2,000		
SN74ABT162841DL	296-3898-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	2.70	2.16	1.68

ABTE Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABTE16245DGGR	296-9755-1-ND	Tri-State 16-Bit Incident-Wave Bus Transceiver	48-TSSOP	8.10	6.48	5.47
SN74ABTE16245DGGR	296-9755-2-ND	Tri-State 16-Bit Incident-Wave Bus Transceiver	48-TSSOP	10126.00/2,000		
SN74ABTE16245DL	296-9756-5-ND	Tri-State 16-Bit Incident-Wave Bus Transceiver	48-SSOP	8.10	6.48	5.47
SN74ABTE16246DGGR	296-4119-1-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-TSSOP	9.50	7.60	6.42
SN74ABTE16246DGGR	296-4119-2-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-TSSOP	11876.00/2,000		
SN74ABTE16246DL	296-4120-5-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-SSOP	9.50	7.60	6.42
SN74ABTE16246DLR	296-4120-1-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-SSOP	9.50	7.60	6.42
SN74ABTE16246DLR	296-4120-2-ND	Tri-State 11-Bit Incident-Wave Bus Transceiver	48-SSOP	5938.00/1,000		

ABTH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABTH245DBR	296-4138-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.84	.63	.48
SN74ABTH245DBR	296-4138-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	558.00/2,000		
SN74ABTH245DGVR	296-4139-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.75	.63	.50
SN74ABTH245DGVR	296-4139-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	666.00/2,000		
SN74ABTH245DWR	296-4140-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.84	.63	.48
SN74ABTH245DWR	296-4140-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	558.00/2,000		
SN74ABTH245N	296-4141-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.84	.63	.48
SN74ABTH245PWR	296-4142-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.84	.63	.48
SN74ABTH245PWR	296-4142-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	558.00/2,000		
SN74ABTH25245DW	296-4143-5-ND	Tri-State 25-Ohm Octal Bus Transceiver	24-SOIC	4.93	3.95	3.07
SN74ABTH25245NT	296-4144-5-ND	Tri-State 25-Ohm Octal Bus Transceiver	24-Dip	4.93	3.95	3.07
SN74ABTH32245PZ	296-4145-ND	Tri-State 36-Bit Bus Transceiver	100-LQFP	15.00	14.00	13.00
SN74ABTH32316PN	296-4146-ND	Tri-Port 16-Bit Univ. Bus Exchanger	80-TQFP	15.54	14.51	13.48
SN74ABTH32543PZ	296-4147-ND	Tri-State 36-Bit Registered Bus Transceiver	100-LQFP	15.75	14.70	13.65
SN74ABTH16244DGGR	296-4122-1-ND	Tri-State 16-Bit Bus Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74ABTH16244DGGR	296-4122-2-ND	Tri-State 16-Bit Bus Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74ABTH16244DL	296-4123-5-ND	Tri-State 16-Bit Bus Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABTH16244DLR	296-4123-1-ND	Tri-State 16-Bit Bus Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74ABTH16244DLR	296-4123-2-ND	Tri-State 16-Bit Bus Buffer/Driver	48-SSOP	532.00/1,000		
SN74ABTH16245DGGR	296-4124-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.20	1.00	.80
SN74ABTH16245DGGR	296-4124-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1064.00/2,000		
SN74ABTH16245DGVR	296-4125-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.20	1.00	.80
SN74ABTH16245DGVR	296-4125-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1064.00/2,000		
SN74ABTH16245DL	296-4126-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ABTH16260DL	296-1446-5-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	7.70	6.16	5.20
SN74ABTH16260DLR	296-1446-1-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	7.70	6.16	5.20
SN74ABTH16260DLR	296-1446-2-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	4813.00/1,000		
SN74ABTH16460DGGR	296-4127-1-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-TSSOP	7.70	6.16	5.20
SN74ABTH16460DGGR	296-4127-2-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-TSSOP	9626.00/2,000		
SN74ABTH16460DL	296-4128-5-ND	Tri-State 12-24 Bit Mux D-Type Latch	56-SSOP	7.70	6.16	5.20
SN74ABTH16823DGGR	296-4129-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-TSSOP	5.20	4.16	3.51
SN74ABTH16823DGGR	296-4129-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-TSSOP	6500.00/2,000		
SN74ABTH16823DLR	296-4130-1-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	5.20	4.16	3.51
SN74ABTH16823DLR	296-4130-2-ND	Tri-State 18-Bit Bus-Interface Flip-Flop	56-SSOP	3250.00/1,000		
SN74ABTH32318PN	296-1447-5-ND	18-Bit Tri-Port Univ Bus Exchange	80-TQFP	14.58	13.13	11.64
SN74ABTH32501PZ	296-1448-5-ND	36-Bit Bus Transceiver	100-LQFP	16.50	15.40	14.30
SN74ABTH162245DGGR	296-1050-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.29	1.08	.86
SN74ABTH162245DGGR	296-1050-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1144.00/2,000		
SN74ABTH162245DGVR	296-4121-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.29	1.08	.86
SN74ABTH162245DGVR	296-4121-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1144.00/2,000		
SN74ABTH162245DL	296-1445-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.29	1.08	.86
SN74ABTH162260DLR	296-1051-1-ND	12-24-Bit Mux D-Type Latch	56-SSOP	5.56	4.45	3.46
SN74ABTH162260DLR	296-1051-2-ND	Tri-State 12-24 Bit Mux. D-Type Latch	56-SSOP	3149.00/1,000		
SN74ABTH182502APM	296-4131-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-LQFP	15.44	13.90	12.33
SN74ABTH182504APM	296-4132-ND	Scan Test Device with 20-Bit Universal Bus Transceiver	64-LQFP	15.44	13.90	12.33
SN74ABTH182646APM	296-4133-ND	Scan Test Device with 18-Bit Transceiver/Register	64-LQFP	15.09	14.09	13.08
SN74ABTH18502APM	296-4134-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-LQFP	15.44	13.90	12.33
SN74ABTH18502APMR	296-14683-1-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-LQFP	15.44	13.90	12.33
SN74ABTH18502APMR	296-14683-2-ND	Scan Test Device with 18-Bit Universal Bus Transceiver	64-LQFP	11444.00/1,000		
SN74ABTH18504APM	296-4135-ND	Scan Test Device with 20-Bit Universal Bus Transceiver	64-LQFP	15.44	13.90	12.33
SN74ABTH18646APM	296-4136-ND	Scan Test Device with 18-Bit Transceiver/Register	64-LQFP	13.74	12.38	10.98
SN74ABTH18652APM	296-4137-ND	Scan Test Device with 18-Bit Transceiver/Register	64-LQFP	13.74	12.38	10.98
SN74ABTH25245DWR	296-14684-1-ND	Tri-St. 25-Ohm Octal Bus Transceiver	24-SOIC	4.93	3.95	3.07
SN74ABTH25245DWR	296-14684-2-ND	Tri-St. 25-Ohm Octal Bus Transceiver	24-SOIC	5584.00/2,000		

ABTR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ABTR2245DBR	296-4148-1-ND	Tri-State Octal Transceiver/Line/Memory Driver	20-SSOP	.84	.63	.48
SN74ABTR2245DBR	296-4148-2-ND	Tri-State Octal Transceiver/Line/Memory Driver	20-SSOP	558.00/2,000		
SN74ABTR2245DW	296-4149-5-ND	Tri-State Octal Transceiver/Line/Memory Driver	20-SOIC	.84	.63	.48
SN74ABTR2245PWR	296-4150-1-ND	Tri-State Octal Transceiver/Line/Memory Driver	20-TSSOP	.84	.63	.48
SN74ABTR2245PWR	296-4150-2-ND	Tri-State Octal Transceiver/Line/Memory Driver	20-TSSOP	558.00/2,000		

AC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AC11004DW	296-4152-5-ND	Hex Inverter	20-SOIC	1.50	1.20	.90
74AC11004DWR	296-4152-1-ND	Hex Inverter	20-SOIC	1.50	1.20	.90
74AC11004DWR	296-4152-2-ND	Hex Inverter	20-SOIC	1560.00/2,000		
74AC11004N	296-4153-5-ND	Hex Inverter	20-Dip	1.50	1.20	.90
74AC11008N	296-4154-5-ND	Quad 2-Input Positive AND Gate	16-Dip	1.50	1.20	.90
74AC11008PWR	296-4155-1-ND	Quad 2-Input Positive AND Gate	16-TSSOP	1.50	1.20	.90
74AC11008PWR	296-4155-2-ND	Quad 2-Input Positive AND Gate	16-TSSOP	1560.00/2,000		
74AC11032D	296-4156-5-ND	Quad 2-Input OR Gate	16-SOIC	1.50	1.20	.90
74AC11032DBR	296-4157-1-ND	Quad 2-Input OR Gate	16-SSOP	1.50	1.20	.90
74AC11032DBR	296-4157-2-ND	Quad 2-Input OR Gate	16-SSOP	1560.00/2,000		
74AC11032N	296-4158-5-ND	Quad 2-Input OR Gate	16-Dip	1.50	1.20	.90
74AC11074D	296-4159-5-ND	Dual D-Type Flip-Flop	14-SOIC	1.50	1.20	.90
74AC11074PWR	296-4160-1-ND	Dual D-Type Flip-Flop	14-TSSOP	1.50	1.20	.90
74AC11074PWR	296-4160-2-ND	Dual D-Type Flip-Flop	14-TSSOP	1560.00/2,000		
74AC11086D	296-4161-5-ND	Quad 2-Input Exclusive OR Gate	16-SOIC	1.50	1.20	.90
74AC11138N	296-4162-5-ND	3-8 Decoder/Demultiplexer	16-Dip	1.75	1.40	1.05
74AC11138PWR	296-4163-1-ND	3-8 Decoder/Demultiplexer	16-TSSOP	1.75	1.40	1.05
74AC11138PWR	296-4163-2-ND	3-8 Decoder/Demultiplexer	16-TSSOP	1820.00/2,000		
74AC11240DBR	296-4167-1-ND	Octal Buffer/Line Driver	24-SSOP	2.34	1.88	1.46
74AC11240DBR	296-4167-2-ND	Octal Buffer/Line Driver	24-SSOP	2652.00/2,000		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AC11244DBR	296-4168-1-ND	Octal Buffer/Line Driver	24-SSOP	2.34	1.88	1.46
74AC11244DBR	296-4168-2-ND	Octal Buffer/Line Driver	24-SSOP	2652.00/2,000		
74AC11244DW	296-4169-5-ND	Octal Buffer/Line Driver	24-SOIC	2.34	1.88	1.46
74AC11244PWR	296-1000-1-ND	Octal Buffer/Line Driver	24-TSSOP	2.34	1.88	1.46
74AC11244PWR	296-1000-2-ND	Octal Buffer/Line Driver	24-TSSOP	2652.00/2,000		
74AC11245DW	296-4170-5-ND	Octal Bus Transceiver	24-SOIC	2.34	1.88	1.46
74AC16244DGGR	296-15845-1-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.38	1.10	.83
74AC16244DGGR	296-15845-2-ND	16-Bit Buffer/Line Driver	48-TSSOP	1430.00/2,000		
74AC16244DL	296-4173-5-ND	16-Bit Buffer/Line Driver	48-SSOP	1.38	1.10	.83
74AC16244DLR	296-14452-1-ND	16-Bit Buffer/Line Driver	48-SSOP	1.38	1.10	.83
74AC16244DLR	296-14452-2-ND	16-Bit Buffer/Line Driver	48-SSOP	715.00/1,000		
74AC16245DL	296-4174-5-ND	16-Bit Bus Transceiver	48-SSOP	1.50	1.20	.90
74AC16374DLR	296-14453-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.38	1.10	.83
74AC16374DLR	296-14453-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	715.00/1,000		
CD74AC00E	296-4214-5-ND	Quad 2-Input NAND Gate	14-Dip	.60	.45	.34
CD74AC00M	296-4215-5-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.42	.32
CD74AC00M96	296-4215-1-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.42	.32
CD74AC00M96	296-4215-2-ND	Quad 2-Input NAND Gate	14-SOIC	455.00/2,500		
CD74AC02M96	296-4216-1-ND	Quad 2-Input NOR Gate	14-SOIC	.56	.42	.32
CD74AC02M96	296-4216-2-ND	Quad 2-Input NOR Gate	14-SOIC	455.00/2,500		
CD74AC04E	296-4217-5-ND	Hex Inverter	14-Dip	.60	.45	.34
CD74AC04M96	296-4218-1-ND	Hex Inverter	14-SOIC	.56	.42	.32
CD74AC04M96	296-4218-2-ND	Hex Inverter	14-SOIC	455.00/2,500		
CD74AC05E	296-4219-5-ND	Hex Inverter	14-Dip	.60	.45	.34
CD74AC05M	296-4220-5-ND	Hex Inverter	14-SOIC	.56	.42	.32
CD74AC08M	296-1377-5-ND	Quad 2-Input AND Gate	14-SOIC	.56	.42	.32
CD74AC08M96	296-14477-1-ND	Quad 2-Input AND Gate	14-SOIC	.56	.42	.32
CD74AC08M96	296-14477-2-ND	Quad 2-Input AND Gate	14-SOIC	455.00/2,500		
CD74AC10M96	296-4222-1-ND	Triple 3-Input NAND Gate	14-SOIC	.56	.42	.32
CD74AC10M96	296-4222-2-ND	Triple 3-Input NAND Gate	14-SOIC	455.00/2,500		
CD74AC14M	296-1981-5-ND	Hex Inverter Schmitt Trigger	14-SOIC	.56	.42	.32
CD74AC14M96	296-1981-1-ND	Hex Inverter Schmitt Trigger	14-SOIC	.56	.42	.32
CD74AC14M96	296-1981-2-ND	Hex Inverter Schmitt Trigger	14-SOIC	455.00/2,500		
CD74AC20E	296-4237-5-ND	Dual 4-Input NAND Gate	14-Dip	.60	.45	.34
CD74AC20M	296-4238-5-ND	Dual 4-Input NAND Gate	14-SOIC	.56	.42	.32
CD74AC32M96	296-1985-1-ND	Quad 2-Input OR Gate	14-SOIC	.56	.42	.32
CD74AC32M96	296-1985-2-ND	Quad 2-Input OR Gate	14-SOIC	455.00/2,500		
CD74AC74M	296-4249-5-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.56	.42	.32
CD74AC74M96	296-14484-1-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.56	.42	.32
CD74AC74M96	296-14484-2-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	455.00/2,500		
CD74AC109M96	296-4221-1-ND	Dual JK Flip-Flop with Set/Reset	16-SOIC	.56	.42	.32
CD74AC109M96	296-4221-2-ND	Dual JK Flip-Flop with Set/Reset	16-SOIC	455.00/2,500		
CD74AC112E	296-4223-5-ND	Dual JK Flip-Flop with Set/Reset	16-Dip	.68	.51	.39
CD74AC112M	296-4224-5-ND	Dual JK Flip-Flop with Set/Reset	16-SOIC	.56	.42	.32
CD74AC138E	296-4225-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.68	.51	.39
CD74AC138M	296-4226-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.56	.42	.32
CD74AC139M96	296-4227-1-ND	Dual 2-4 Line Decoder/Demultiplexer	16-SOIC	.56	.42	.32
CD74AC139M96	296-4227-2-ND	Dual 2-4 Line Decoder/Demultiplexer	16-SOIC	455.00/2,500		
CD74AC151M96	296-4228-1-ND	8-Input Multiplexer	16-SOIC	.76	.57	.43
CD74AC151M96	296-4228-2-ND	8-Input Multiplexer	16-SOIC	617.50/2,500		
CD74AC153M96	296-4229-1-ND	Dual 4-Input Multiplexer	16-SOIC	.76	.57	.43
CD74AC153M96	296-4229-2-ND	Dual 4-Input Multiplexer	16-SOIC	617.50/2,500		
CD74AC157E	296-4230-5-ND	Quad 2-Input Multiplexer	16-Dip	.72	.54	.41
CD74AC157M	296-4231-5-ND	Quad 2-Input Multiplexer	16-SOIC	.72	.54	.41
CD74AC161M	296-4232-5-ND	4-Bit Synchronous Binary Counter	16-SOIC	.64	.48	.36
CD74AC163E	296-4233-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.68	.51	.39
CD74AC163M96	296-4234-1-ND	4-Bit Synchronous Binary Counter	16-SOIC	.64	.48	.36
CD74AC163M96	296-4234-2-ND	4-Bit Synchronous Binary Counter	16-SOIC	520.00/2,500		
CD74AC164E	296-4235-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.68	.51	.39
CD74AC174E	296-4236-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.68	.51	.39
CD74AC238M96	296-4239-1-ND	3-8 Line Decoder/Demux	16-SOIC	1.25	1.00	.75
CD74AC238M96	296-4239-2-ND	3-8 Line Decoder/Demux	16-SOIC	1600.00/2,500		
CD74AC240M	296-4240-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74AC244M96	296-14479-1-ND	Tri-State Non-Inverting Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74AC244M96	296-14479-2-ND	Tri-State Non-Inverting Octal Buffer/Line Driver	20-SOIC	532.00/2,000		
CD74AC245M96	296-14480-1-ND	Tri-State Non-Inverting Octal Bus Transceiver	20-SOIC	.80	.60	.45
CD74AC245M96	296-14480-2-ND	Tri-State Non-Inverting Octal Bus Transceiver	20-SOIC	532.00/2,000		
CD74AC253M	296-4242-5-ND	Tri-State Dual 4-Input Mux	16-SOIC	.80	.60	.45
CD74AC257M	296-4243-5-ND	Tri-State Quad 2-Input Mux	16-SOIC	.78	.65	.52
CD74AC273E	296-1378-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.75	.63	.50
CD74AC273M96	296-14481-1-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.75	.63	.50
CD74AC273M96	296-14481-2-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	666.00/2,000		
CD74AC280E	296-4245-5-ND	9-Bit Odd/Even Parity-Generator/Checker	14-Dip	.80	.60	.45
CD74AC280M96	296-4246-1-ND	9-Bit Odd/Even Parity-Generator/Checker	14-SOIC	.80	.60	.45
CD74AC280M96	296-4246-2-ND	9-Bit Odd/Even Parity-Generator/Checker	14-SOIC	650.00/2,500		
CD74AC373M96	296-14482-1-ND	Tri-State Octal Transparent Latch	20-SOIC	.80	.60	.45
CD74AC373M96	296-14482-2-ND	Tri-State Octal Transparent Latch	20-SOIC	532.00/2,000		
CD74AC374M	296-9411-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
CD74AC534M96	296-4247-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
CD74AC534M96	296-4247-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
CD74AC541E	296-4248-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.80	.60	.45
CD74AC541M96	296-16677-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74AC541M96	296-16677-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	532.00/2,000		
CD74AC573E	296-1379-5-ND	Octal Transparent Latch	20-Dip	.80	.60	.45
CD74AC573M96	296-14483-1-ND	Octal Transparent Latch	20-SOIC	.80	.60	.45
CD74AC573M96	296-14483-2-ND	Octal Transparent Latch	20-SOIC	532.00/2,000		
SN74AC00D	296-1052-5-ND	Quad 2-Input NAND Gate	14-SOIC	.45	.36	.27
SN74AC00DR	296-1052-1-ND	Quad 2-Input NAND Gate	14-SOIC	.45	.36	.27
SN74AC00DR	296-1052-2-ND	Quad 2-Input NAND Gate	14-SOIC	305.00/2,500		
SN74AC00N	296-4287-5-ND	Quad 2-Input NAND Gate	14-Dip	.50	.40	.30
SN74AC00PWR	296-4288-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.45	.36	.27
SN74AC00PWR	296-4288-2-ND	Quad 2-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74AC04D	296-1053-5-ND	Hex Inverter	14-SOIC	.45	.36	.27
SN74AC04DR	296-1053-1-ND	Hex Inverter	14-SOIC	.45	.36	.27
SN74AC04DR	296-1053-2-ND	Hex Inverter	14-SOIC	305.00/2,500		
SN74AC04DBR	296-4289-1-ND	Hex Inverter	14-SSOP	.45	.36	.27
SN74AC04DBR	296-4289-2-ND	Hex Inverter	14-SSOP	252.00/2,000		

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AC04MDREP	296-18122-1-ND	Hex Inverter	14-SOIC	.93	.78	.62
SN74AC04MDREP	296-18122-2-ND	Hex Inverter	14-SOIC	1007.50/2,500		
SN74AC04N	296-4290-5-ND	Hex Inverter	14-Dip	.40	.32	.24
SN74AC04PWR	296-1054-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74AC04PWR	296-1054-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74AC08DBR	296-4291-1-ND	Quad 2-Input AND Gate	14-SSOP	.45	.36	.27
SN74AC08DBR	296-4291-2-ND	Quad 2-Input AND Gate	14-SSOP	252.00/2,000		
SN74AC08DR	296-1055-1-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74AC08DR	296-1055-2-ND	Quad 2-Input AND Gate	14-SOIC	297.50/2,500		
SN74AC08PWR	296-4292-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	.26
SN74AC08PWR	296-4292-2-ND	Quad 2-Input AND Gate	14-TSSOP	252.00/2,000		
SN74AC10DBR	296-4293-1-ND	Triple 3-Input NAND Gate	14-SSOP	.50	.40	.30
SN74AC10DBR	296-4293-2-ND	Triple 3-Input NAND Gate	14-SSOP	280.00/2,000		
SN74AC10DR	296-4294-1-ND	Triple 3-Input NAND Gate	14-SOIC	.50	.40	.30
SN74AC10DR	296-4294-2-ND	Triple 3-Input NAND Gate	14-SOIC	337.50/2,500		
SN74AC10PWR	296-4295-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.50	.40	.30
SN74AC10PWR	296-4295-2-ND	Triple 3-Input NAND Gate	14-TSSOP	280.00/2,000		
SN74AC11DBR	296-4296-1-ND	Triple 3-Input AND Gate	14-SSOP	.50	.40	.30
SN74AC11DBR	296-4296-2-ND	Triple 3-Input AND Gate	14-SSOP	280.00/2,000		
SN74AC11D	296-4297-5-ND	Triple 3-Input AND Gate	14-SOIC	.50	.40	.30
SN74AC11DR	296-4297-1-ND	Triple 3-Input AND Gate	14-SOIC	.50	.40	.30
SN74AC11DR	296-4297-2-ND	Triple 3-Input AND Gate	14-SOIC	337.50/2,500		
SN74AC11PWR	296-4298-1-ND	Triple 3-Input AND Gate	14-TSSOP	.50	.40	.30
SN74AC11PWR	296-4298-2-ND	Triple 3-Input AND Gate	14-TSSOP	280.00/2,000		
SN74AC14DBR	296-4299-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.49	.40	.27
SN74AC14DBR	296-4299-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	270.00/2,000		
SN74AC14D	296-4300-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74AC14DR	296-4300-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74AC14DR	296-4300-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	297.50/2,500		
SN74AC14N	296-4301-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.40	.32	.24
SN74AC14PWR	296-4302-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.45	.36	.27
SN74AC14PWR	296-4302-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	252.00/2,000		
SN74AC32D	296-1059-5-ND	Quad 2-Input OR Gate	14-SOIC	.45	.36	.27
SN74AC32DR	296-1059-1-ND	Quad 2-Input OR Gate	14-SOIC	.45	.36	.27
SN74AC32DR	296-1059-2-ND	Quad 2-Input OR Gate	14-SOIC	305.00/2,500		
SN74AC32DBR	296-4317-1-ND	Quad 2-Input OR Gate	14-SSOP	.45	.36	.27
SN74AC32DBR	296-4317-2-ND	Quad 2-Input OR Gate	14-SSOP	252.00/2,000		
SN74AC32N	296-4318-5-ND	Quad 2-Input OR Gate	14-Dip	.50	.40	.30
SN74AC32PWR	296-4319-1-ND	Quad 2-Input OR Gate	14-TSSOP	.45	.36	.27
SN74AC32PWR	296-4319-2-ND	Quad 2-Input OR Gate	14-TSSOP	252.00/2,000		
SN74AC74D	296-1063-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.46	.37	.26
SN74AC74DR	296-1063-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.46	.37	.26
SN74AC74DR	296-1063-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	297.50/2,500		
SN74AC74DBR	296-4341-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	.50	.40	.30
SN74AC74DBR	296-4341-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	280.00/2,000		
SN74AC74MDREP	296-18123-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.93	.78	.62
SN74AC74MDREP	296-18123-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	1007.50/2,500		
SN74AC74N	296-4342-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-Dip	.40	.32	.24
SN74AC74NSR	296-13129-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	.45	.36	.27
SN74AC74NSR	296-13129-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	252.00/2,000		
SN74AC74PWR	296-1064-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	.45	.36	.27
SN74AC74PWR	296-1064-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	252.00/2,000		
SN74AC86D	296-4343-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.37	.26
SN74AC86DBR	296-4344-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.45	.36	.27
SN74AC86DBR	296-4344-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	252.00/2,000		
SN74AC86N	296-4345-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.50	.40	.30
SN74AC86PWR	296-4346-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.46	.37	.26
SN74AC86PWR	296-4346-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	252.00/2,000		
SN74AC240DBR	296-4303-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.64	.48	.36
SN74AC240DBR	296-4303-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	426.00/2,000		
SN74AC240DW	296-4304-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.64	.48	.36
SN74AC240DWR	296-14686-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.64	.48	.36
SN74AC240DWR	296-14686-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	426.00/2,000		
SN74AC240N	296-4305-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.72	.54	.41
SN74AC240PWR	296-4306-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.64	.48	.36
SN74AC240PWR	296-4306-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	426.00/2,000		
SN74AC241DBR	296-4307-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.50	.38	.29
SN74AC241DBR	296-4307-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	332.00/2,000		
SN74AC241DW	296-1056-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.38	.29
SN74AC241DWR	296-1056-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.50	.38	.29
SN74AC241DWR	296-1056-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	332.00/2,000		
SN74AC241N	296-4308-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.50	.38	.29
SN74AC241PWR	296-4309-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.50	.38	.29
SN74AC241PWR	296-4309-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	332.00/2,000		
SN74AC244DBR	296-4310-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.80	.60	.45
SN74AC244DBR	296-4310-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	532.00/2,000		
SN74AC244DWR	296-1057-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
SN74AC244DWR	296-1057-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	532.00/2,000		
SN74AC244N	296-4311-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.80	.60	.45
SN74AC244NSR	296-4312-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.80	.60	.45
SN74AC244NSR	296-4312-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	532.00/2,000		
SN74AC244PWR	296-4313-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.80	.60	.45
SN74AC244PWR	296-4313-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	532.00/2,000		
SN74AC245DBR	296-4314-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74AC245DBR	296-4314-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	532.00/2,000		
SN74AC245DW	296-1058-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74AC245DWR	296-1058-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74AC245DWR	296-1058-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	532.00/2,000		
SN74AC245IDWREP	296-19500-1-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-SOIC	2.18	1.74	1.31
SN74AC245IDWREP	296-19500-2-ND	Tri-State Octal Bus Transceiver ***NEW!***	20-SOIC	2262.00/2,000		
SN74AC245N	296-4315-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.80	.60	.45
SN74AC245PWR	296-4316-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.80	.60	.45

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AC245PWR	296-4316-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	532.00/2,000		
SN74AC373DBR	296-4320-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.80	.60	.45
SN74AC373DBR	296-4320-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	532.00/2,000		
SN74AC373DWR	296-4321-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.80	.60	.45
SN74AC373DWR	296-4321-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	532.00/2,000		
SN74AC373NSR	296-4322-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOP	.80	.60	.45
SN74AC373NSR	296-4322-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOP	532.00/2,000		
SN74AC373PWR	296-4323-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.80	.60	.45
SN74AC373PWR	296-4323-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	532.00/2,000		
SN74AC374DBR	296-4324-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74AC374DBR	296-4324-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74AC374DWR	296-1060-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74AC374DWR	296-1060-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74AC374PWR	296-4325-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74AC374PWR	296-4325-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74AC533DBR	296-4326-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	1.20	1.00	.80
SN74AC533DBR	296-4326-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	1064.00/2,000		
SN74AC533DW	296-4327-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	1.20	1.00	.80
SN74AC533PWR	296-4328-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	1.20	1.00	.80
SN74AC533PWR	296-4328-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	1064.00/2,000		
SN74AC534DBR	296-4329-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74AC534DBR	296-4329-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	400.00/2,000		
SN74AC534DW	296-4330-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74AC534N	296-4331-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.60	.45	.34
SN74AC534PWR	296-4332-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	.34
SN74AC534PWR	296-4332-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	400.00/2,000		
SN74AC563DBR	296-4333-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	1.20	1.00	.80
SN74AC563DBR	296-4333-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	1064.00/2,000		
SN74AC563DW	296-4334-5-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	1.20	1.00	.80
SN74AC563PWR	296-4335-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	1.20	1.00	.80
SN74AC563PWR	296-4335-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	1064.00/2,000		
SN74AC564DW	296-4336-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	1.41	1.18	.94
SN74AC573DBR	296-4337-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.80	.60	.45
SN74AC573DBR	296-4337-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	532.00/2,000		
SN74AC573DW	296-1061-5-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.80	.60	.45
SN74AC573DWR	296-1061-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.80	.60	.45
SN74AC573DWR	296-1061-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	532.00/2,000		
SN74AC573PWR	296-4338-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.80	.60	.45
SN74AC573PWR	296-4338-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	532.00/2,000		
SN74AC574DBR	296-4339-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74AC574DBR	296-4339-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74AC574DW	296-1062-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74AC574DWR	296-1062-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74AC574DWR	296-1062-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74AC574PWR	296-4340-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74AC574PWR	296-4340-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		

ACT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ACT11000DR	296-14295-1-ND	Quad 2-Input NAND Gate	16-SOIC	1.48	1.18	.89
74ACT11000DR	296-14295-2-ND	Quad 2-Input NAND Gate	16-SOIC	1887.50/2,500		
74ACT11004DW	296-4177-5-ND	Hex Inverter	20-SOIC	1.48	1.18	.89
74ACT11008D	296-4178-5-ND	Quad 2-Input AND Gate	16-SOIC	1.48	1.18	.89
74ACT11008N	296-4179-5-ND	Quad 2-Input AND Gate	16-Dip	1.48	1.18	.89
74ACT11030DR	296-4180-1-ND	8-Input NAND Gate	14-SOIC	1.48	1.18	.89
74ACT11030DR	296-4180-2-ND	8-Input NAND Gate	14-SOIC	1887.50/2,500		
74ACT11032DBR	296-4181-1-ND	Quad 2-Input Positive OR Gate	16-SSOP	1.48	1.18	.89
74ACT11032DBR	296-4181-2-ND	Quad 2-Input Positive OR Gate	16-SSOP	1534.00/2,000		
74ACT11032DR	296-4182-1-ND	Quad 2-Input Positive OR Gate	16-SOIC	1.48	1.18	.89
74ACT11032DR	296-4182-2-ND	Quad 2-Input Positive OR Gate	16-SOIC	1887.50/2,500		
74ACT11032N	296-4183-5-ND	Quad 2-Input Positive OR Gate	16-Dip	1.48	1.18	.89
74ACT11074DBR	296-4184-1-ND	Dual Positive Edge-Triggered D-Type Flip-Flop w/Clear and Preset	14-SSOP	1.48	1.18	.89
74ACT11074DBR	296-4184-2-ND	Dual Positive Edge-Triggered D-Type Flip-Flop w/Clear and Preset	14-SSOP	1534.00/2,000		
74ACT11074NSR	296-13059-1-ND	Dual Positive Edge-Triggered D-Type Flip-Flop w/Clear and Preset	14-SOP	1.48	1.18	.89
74ACT11074NSR	296-13059-2-ND	Dual Positive Edge-Triggered D-Type Flip-Flop w/Clear and Preset	14-SOP	1534.00/2,000		
74ACT11139D	296-4185-5-ND	Dual 2-4 Decoder/Demux	16-SOIC	1.75	1.40	1.05
74ACT11139PWR	296-4186-1-ND	Dual 2-4 Decoder/Demux	16-SSOP	1.75	1.40	1.05
74ACT11139PWR	296-4186-2-ND	Dual 2-4 Decoder/Demux	16-SSOP	1820.00/2,000		
74ACT11240DW	296-4187-5-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	2.36	1.89	1.47
74ACT11240NT	296-4188-5-ND	Tri-State Octal Buffer/Line Driver	24-Dip	2.36	1.89	1.47
74ACT11244DBR	296-4189-1-ND	Tri-State Octal Buffer/Line Driver	24-SSOP	2.36	1.89	1.47
74ACT11244DBR	296-4189-2-ND	Tri-State Octal Buffer/Line Driver	24-SSOP	2678.00/2,000		
74ACT11244DW	296-1001-5-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	2.36	1.89	1.47
74ACT11244DWR	296-1001-1-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	2.36	1.89	1.47
74ACT11244DWR	296-1001-2-ND	Tri-State Octal Buffer/Line Driver	24-SOIC	2678.00/2,000		
74ACT11244NT	296-4190-5-ND	Tri-State Octal Buffer/Line Driver	24-Dip	2.36	1.89	1.47
74ACT11244PWR	296-1002-1-ND	Tri-State Octal Buffer/Line Driver	24-TSSOP	2.36	1.89	1.47
74ACT11244PWR	296-1002-2-ND	Tri-State Octal Buffer/Line Driver	24-TSSOP	2678.00/2,000		
74ACT11245DBR	296-4191-1-ND	Tri-State Octal Bus Transceiver	24-SSOP	2.36	1.89	1.47
74ACT11245DBR	296-4191-2-ND	Tri-State Octal Bus Transceiver	24-SSOP	2678.00/2,000		
74ACT11245DW	296-4192-5-ND	Tri-State Octal Bus Transceiver	24-SOIC	2.36	1.89	1.47
74ACT11245NT	296-4193-5-ND	Tri-State Octal Bus Transceiver	24-Dip	2.36	1.89	1.47
74ACT11245PWR	296-1003-1-ND	Tri-State Octal Bus Transceiver	24-TSSOP	2.36	1.89	1.47
74ACT11245PWR	296-1003-2-ND	Tri-State Octal Bus Transceiver	24-TSSOP	2678.00/2,000		
74ACT11257DBR	296-4194-1-ND	Tri-State Quad 2-1 Multiplexer	20-SSOP	2.13	1.70	1.28
74ACT11257DBR	296-4194-2-ND	Tri-State Quad 2-1 Multiplexer	20-SSOP	2210.00/2,000		
74ACT11257DW	296-4195-5-ND	Tri-State Quad 2-1 Multiplexer	20-SOIC	2.13	1.70	1.28
74ACT11257DWR	296-4195-1-ND	Tri-State Quad 2-1 Multiplexer	20-SOIC	2.13	1.70	1.28
74ACT11257DWR	296-4195-2-ND	Tri-State Quad 2-1 Multiplexer	20-SOIC	2210.00/2,000		
74ACT11286D	296-4196-5-ND	9-Bit Parity Generator/Checker	14-SOIC	2.27	1.82	1.42
74ACT11286DR	296-4196-1-ND	9-Bit Parity Generator/Checker	14-SOIC	2.27	1.82	1.42
74ACT11286DR	296-4196-2-ND	9-Bit Parity Generator/Checker	14-SOIC	3182.50/2,500		
74ACT11373DBR	296-4197-1-ND	Tri-St. Octal D-Type Transparent Latch	24-SSOP	2.36	1.89	1.47
74ACT11373DBR	296-4197-2-ND	Tri-St. Octal D-Type Transparent Latch	24-SSOP	2678.00/2,000		
74ACT11373DW	296-4198-5-ND	Tri-St. Octal D-Type Transparent Latch	24-SOIC	2.36	1.89	1.47
74ACT11374DW	296-4199-5-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC	2.36	1.89	1.47
74ACT11543DWR	296-4200-1-ND	Tri-State Octal Latched Transceiver	28-SOIC	5.18	4.14	3.22
74ACT11543DWR	296-4200-2-ND	Tri-State Octal Latched Transceiver	28-SOIC	2933.00/1,000		
74ACT11652DWR	296-4201-1-ND	Tri-State Octal Register Bus Transceiver	28-SOIC	8.36	6.69	5.65
74ACT11652DWR	296-4201-2-ND	Tri-State Octal Register Bus Transceiver	28-SOIC	5225.00/1,000		
74ACT16240DLR	296-14454-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.33	1.06	.80
74ACT16240DLR	296-14454-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	689.00/1,000		
74ACT16244DGGR	296-1004-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	1.33	1.06	.80
74ACT16244DGGR	296-1004-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-TSSOP	1378.00/2,000		
74ACT16244DL	296-1005-5-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	1.33	1.06	.80
74ACT16244DLR	296-1005-1-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	1.33	1.06	.80
74ACT16244DLR	296-1005-2-ND	Tri-State 16-Bit Buffer/Line Driver	48-SSOP	689.00/1,000		
74ACT16245DGGR	296-4203-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.33	1.06	.80
74ACT16245DGGR	296-4203-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1378.00/2,000		
74ACT16245DLR	296-1006-1-ND	Tri-State 16-Bit Transceiver	48-SSOP	1.33	1.06	.80
74ACT16245DLR	296-1006-2-ND	Tri-State 16-Bit Transceiver	48-SSOP	689.00/1,000		
74ACT16373DL	296-1007-5-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	1.33	1.06	.80
74ACT16373DLR	296-1007-1-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	1.33	1.06	.80
74ACT16373DLR	296-1007-2-ND	Tri-St. 16-Bit D-Type Transparent Latch	48-SSOP	689.00/1,000		
74ACT16374DL	296-1008-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.33	1.06	.80
74ACT16374DLR	296-1008-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.33	1.06	.80
74ACT16374DLR	296-1008-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	689.00/1,000		
74ACT16543DL	296-1009-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.53	1.22	.92
74ACT16543DLR	296-1009-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.53	1.22	.92
74ACT16543DLR	296-1009-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	793.00/1,000		
74ACT16623DLR	296-4204-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.45	4.36	3.39
74ACT16623DLR	296-4204-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	3086.00/1,000		
74ACT16646DL	296-4205-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.93	2.34	1.82
74ACT16646DLR	296-4205-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.93	2.34	1.82
74ACT16646DLR	296-4205-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1658.00/1,000		
74ACT16651DL	296-4206-5-ND	Tri-State 16-Bit Transceiver/Register	56-SSOP	8.36	6.69	5.65
74ACT16657DL	296-4207-5-ND	Tri-State 16-Bit Transceiver	56-SSOP	8.98	8.09	7.17
74ACT16823DL	296-4208-5-ND	Tri-State 18-Bit D-Type Flip-Flop	56-SSOP	6.40	5.12	4.32
74ACT16823DLR	296-14457-1-ND	Tri-State 18-Bit D-Type Flip-Flop	56-SSOP	6.40	5.12	4.32
74ACT16823DLR	296-14457-2-ND	Tri-State 18-Bit D-Type Flip-Flop	56-SSOP	4000.00/1,000		
74ACT16825DL	296-4209-5-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	6.40	5.12	4.32
74ACT16825DLR	296-4209-1-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	6.40	5.12	4.32
74ACT16825DLR	296-4209-2-ND	Tri-State 18-Bit Buffer/Line Driver	56-SSOP	4000.00/1,000		
74ACT16841DL	296-4210-5-ND	Tri-State 20-Bit D-Type Latch	56-SSOP	6.40	5.12	4.32
74ACT16863DL	296-4212-5-ND	Tri-State 18-Bit Bus Transceiver	56-SSOP	6.40	5.12	4.32
74ACT16952DLR	296-4213-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	7.46	5.97	5.04
74ACT16952DLR	296-4213-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	4663.00/1,000		
CD74ACT00M	296-4250-5-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.42	.32
CD74ACT00M96	296-14485-1-ND	Quad 2-Input NAND Gate	14-SOIC	.56	.42	.32
CD74ACT00M96	296-14485-2-ND	Quad 2-Input NAND Gate	14-SOIC	455.00/2,500		
CD74ACT02M	296-4251-5-ND	Quad 2-Input NOR Gate	14-SOIC	.56	.42	.32
CD74ACT02M96	296-14486-1-ND	Quad 2-Input NOR Gate	14-SOIC	.56	.42	.32
CD74ACT02M96	296-14486-2-ND	Quad 2-Input NOR Gate	14-SOIC	455.00/2,500		
CD74ACT04E	296-14487-5-ND	Hex Inverter	14-Dip	.60	.45	.34
CD74ACT04M	296-1983-5-ND	Hex Inverter	14-SOIC	.56	.42	.32
CD74ACT04M96	296-1983-1-ND	Hex Inverter	14-SOIC	.56	.42	.32
CD74ACT05E	296-12763-5-ND	Hex Inverter with Open-Drain	14-Dip	.60	.45	.34
CD74ACT05M	296-4252-5-ND	Hex Inverter with Open-Drain	14-SOIC	.56	.42	.32
CD74ACT05M96	296-14488-1-ND	Hex Inverter with Open-Drain	14-SOIC	.56	.42	.32
CD74ACT05M96	296-14488-2-ND	Hex Inverter with Open-Drain	14-SOIC	455.00/2,500		
CD74ACT08M	296-4253-5-ND	Quad 2-Input AND Gate	14-SOIC	.56	.42	.32
CD74ACT08M96	296-14489-1-ND	Quad 2-Input AND Gate	14-SOIC	.56	.42	.32
CD74ACT08M96	296-14489-2-ND	Quad 2-Input AND Gate	14-SOIC	455.00/2,500		
CD74ACT14E	296-12765-5-ND	Hex Schmitt Trigger Inverter	14-Dip	.60	.45	.34
CD74ACT14M	296-1380-5-ND	Hex Schmitt Trigger Inverter	14-SOIC	.56	.42	.32
CD74ACT14M96	296-14492-1-ND	Hex Schmitt Trigger Inverter	14-SOIC	.56	.42	.32
CD74ACT14M96	296-14492-2-ND	Hex Schmitt Trigger Inverter	14-SOIC	455.00/2,500		
CD74ACT20E	296-4266-5-ND	Dual 4-Input NAND Gate	14-Dip	.60	.45	.34
CD74ACT20M	296-4267-5-ND	Dual 4-Input NAND Gate	14-SOIC	.56	.42	.32
CD74ACT32M	296-4278-5-ND	Quad 2-Input OR Gate	14-SOIC	.56	.42	.32
CD74ACT32M96	296-14499-1-ND	Quad 2-Input OR Gate	14-SOIC	.56	.42	.32
CD74ACT32M96	296-14499-2-ND	Quad 2-Input OR Gate	14-SOIC	455.00/2,500		
CD74ACT74M	296-4285-5-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.56	.42	.32
CD74ACT74M96	296-14503-1-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.56	.42	.32
CD74ACT74M96	296-14503-2-ND	Dual D-Type Flip-Flop wtih Set/Reset	14-SOIC	455.00/2,500		
CD74ACT86E	296-4286-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.60	.45	.34
CD74ACT109M	296-4254-5-ND	Dual J-K Flip-Flop with Set/Reset	16-SOIC	.56	.42	.32
CD74ACT112M96	296-12764-1-ND	Dual, Neg., J-K Flip-Flop with Set/Reset	16-SOIC	.60	.45	.34
CD74ACT112M96	296-12764-2-ND	Dual, Neg., J-K Flip-Flop with Set/Reset	16-SOIC	487.50/2,500		
CD74ACT138E	296-14490-5-ND	3-8 Line Decoder/Demux	16-Dip	.68	.51	.39
CD74ACT138M	296-4255-5-ND	3-8 Line Decoder/Demux	16-SOIC	.56	.42	.32
CD74ACT138M96	296-14491-1-ND	3-8 Line Decoder/Demux	16-SOIC	.56	.42	.32
CD74ACT138M96	296-14491-2-ND	3-8 Line Decoder/Demux	16-SOIC	455.00/2,500		
CD74ACT139E	296-4256-5-ND	Dual 2-4 Line Decoder/Demux	16-Dip	.68	.51	.39
CD74ACT139M	296-4257-5-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.56	.42	.32
CD74ACT151M96	296-12766-1-ND	8-1 Data Selectors/Multiplexer	16-SOIC	.64	.48	.36
CD74ACT151M96	296-12766-2-ND	8-1 Data Selectors/Multiplexer	16-SOIC	520.00/2,500		
CD74ACT153E	296-4258-5-ND	Dual 4-Input Multiplexer	16-Dip	.68	.51	.39
CD74ACT153M	296-4259-5-ND	Dual 4-Input Multiplexer	16-SOIC	.56	.42	.32
CD74ACT153NSR	296-18400-1-ND	Dual 4-Input Multiplexer	16-SOIC	.56	.42	.32
CD74ACT153NSR	296-18400-2-ND	Dual 4-Input Multiplexer	16-SOIC	372.00/2,000		
CD74ACT157E	296-4260-5-ND	Quad 2-Input Multiplexer	16-Dip	.72	.54	.41
CD74ACT157M	296-4261-5-ND	Quad 2-Input Multiplexer	16-SOIC	.64	.48	.36
CD74ACT157PWR	296-15079-1-ND	Quad 2-Input Multiplexer	16-TSSOP	.64	.48	.36
CD74ACT157PWR	296-15079-2-ND	Quad 2-Input Multiplexer	16-TSSOP	426.00/2,000		
CD74ACT158M96	296-4262-1-ND	Quad 2-Input Multiplexer	16-SOIC	.92	.69	.52
CD74ACT158M96	296-4262-2-ND	Quad 2-Input Multiplexer	16-SOIC	747.50/2,500		
CD74ACT161M	296-4263-5-ND	4-Bit Synchronous Binary Counter	16-SOIC	.64	.48	.36
CD74ACT163M	296-4264-5-ND	4-Bit Synchronous Binary Counter	16-SOIC	.64	.48	.36
CD74ACT164E	296-4265-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.72	.54	.41
CD74ACT164M	296-1381-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.72	.54	.41
CD74ACT164M96	296-14493-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.72	.54	.41
CD74ACT164M96	296-14493-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	585.00/2,500		
CD74ACT174M96	296-14494-1-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	.80	.60	.45
CD74ACT174M96	296-14494-2-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	650.00/2,500		
CD74ACT240M96	296-12767-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74ACT240M96	296-12767-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	532.00/2,000		
CD74ACT241M96	296-4268-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74ACT241M96	296-4268-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	532.00/2,000		
CD74ACT244E	296-4269-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.80	.60	.45
CD74ACT244M	296-4270-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CD74ACT244M96	296-14495-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74ACT244M96	296-14495-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	532.00/2,000		
CD74ACT245E	296-14496-5-ND	Tri-St. Octal Bus Non-Inverting Transcvr.	20-Dip	.80	.60	.45
CD74ACT245M	296-4271-5-ND	Tri-St. Octal Bus Non-Inverting Transcvr.	20-SOIC	.80	.60	.45
CD74ACT245M96	296-14497-1-ND	Tri-St. Octal Bus Non-Inverting Transcvr.	20-SOIC	.80	.60	.45
CD74ACT245M96	296-14497-2-ND	Tri-St. Octal Bus Non-Inverting Transcvr.	20-SOIC	532.00/2,000		
CD74ACT273E	296-4272-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.80	.60	.45
CD74ACT273M	296-4273-5-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.80	.60	.45
CD74ACT273M96	296-14498-1-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.80	.60	.45
CD74ACT273M96	296-14498-2-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	532.00/2,000		
CD74ACT273SM96	296-4274-1-ND	Octal D-Type Flip-Flop with Reset	20-SSOP	.80	.60	.45
CD74ACT273SM96	296-4274-2-ND	Octal D-Type Flip-Flop with Reset	20-SSOP	532.00/2,000		
CD74ACT280M96	296-12768-1-ND	9-Bit Odd/Even Parity Generator/Checker	14-SOIC	.80	.60	.45
CD74ACT280M96	296-12768-2-ND	9-Bit Odd/Even Parity Generator/Checker	14-SOIC	650.00/2,500		
CD74ACT283E	296-4275-5-ND	4-Bit Binary Adder with Fast-Carry	16-Dip	.80	.60	.45
CD74ACT297M	296-4276-5-ND	Digital Phase-Locked Loop	16-SOIC	2.00	1.60	1.20
CD74ACT299M	296-4277-5-ND	8-In Universal Shift/Storage Register	20-SOIC	.90	.75	.60
CD74ACT374E	296-4279-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
CD74ACT374M96	296-14500-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
CD74ACT374M96	296-14500-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
CD74ACT541E	296-1382-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.80	.60	.45
CD74ACT541M	296-4280-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74ACT541M96	296-14501-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74ACT541M96	296-14501-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	532.00/2,000		
CD74ACT573M	296-4282-5-ND	Tri-State Octal Transparent Latch	20-SOIC	.80	.60	.45
CD74ACT573M96	296-14502-1-ND	Tri-State Octal Transparent Latch	20-SOIC	.80	.60	.45
CD74ACT573M96	296-14502-2-ND	Tri-State Octal Transparent Latch	20-SOIC	532.00/2,000		
CD74ACT623M96	296-4283-1-ND	Tri-State Octal-Bus Non-Inverting Xcvr.	20-SOIC	2.00	1.60	1.20
CD74ACT623M96	296-4283-2-ND	Tri-State Octal-Bus Non-Inverting Xcvr.	20-SOIC	2080.00/2,000		
CD74ACT652M	296-4284-5-ND	Tri-State Octal-Bus Transceiver/Register	24-SOIC	1.63	1.30	.98
SN74ACT00D	296-1452-5-ND	Quad 2-Input NAND Gate	14-SOIC	.45	.36	.27
SN74ACT00DBR	296-4347-1-ND	Quad 2-Input NAND Gate	14-SSOP	.45	.36	.27
SN74ACT00DBR	296-4347-2-ND	Quad 2-Input NAND Gate	14-SSOP	252.00/2,000		
SN74ACT00DR	296-14690-1-ND	Quad 2-Input NAND Gate	14-SOIC	.45	.36	.27
SN74ACT00DR	296-14690-2-ND	Quad 2-Input NAND Gate	14-SOIC	305.00/2,500		
SN74ACT00N	296-4348-5-ND	Quad 2-Input NAND Gate	14-Dip	.50	.40	.30
SN74ACT00PWR	296-4349-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.45	.36	.27
SN74ACT00PWR	296-4349-2-ND	Quad 2-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74ACT04D	296-1065-5-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74ACT04DR	296-1065-1-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74ACT04DR	296-1065-2-ND	Hex Inverter	14-SOIC	297.50/2,500		
SN74ACT04DBR	296-4350-1-ND	Hex Inverter	14-SSOP	.45	.36	.27
SN74ACT04DBR	296-4350-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74ACT04N	296-4351-5-ND	Hex Inverter	14-Dip	.40	.32	.24
SN74ACT04PW	296-4352-5-ND	Hex Inverter	14-TSSOP	.45	.36	.27
SN74ACT04PWR	296-4352-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74ACT04PWR	296-4352-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74ACT08D	296-1066-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.45	.36	.27
SN74ACT08DR	296-1066-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.45	.36	.27
SN74ACT08DR	296-1066-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	305.00/2,500		
SN74ACT08DBR	296-4353-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.45	.36	.27
SN74ACT08DBR	296-4353-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	252.00/2,000		
SN74ACT08IDREP	296-19501-1-ND	Quad 2-Input Positive AND Gate ***NEW!***	14-SOIC	1.26	1.05	.84
SN74ACT08IDREP	296-19501-2-ND	Quad 2-Input Positive AND Gate ***NEW!***	14-SOIC	1365.00/2,500		
SN74ACT08N	296-4354-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.50	.40	.30
SN74ACT08NSR	296-13130-1-ND	Quad 2-Input Positive AND Gate	14-SOP	.45	.36	.27
SN74ACT08NSR	296-13130-2-ND	Quad 2-Input Positive AND Gate	14-SOP	252.00/2,000		
SN74ACT08PWR	296-4355-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.45	.36	.27
SN74ACT08PWR	296-4355-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	252.00/2,000		
SN74ACT10DR	296-4360-1-ND	Triple 3-Input NAND Gate	14-SOIC	.40	.32	.24
SN74ACT10DR	296-4360-2-ND	Triple 3-Input NAND Gate	14-SOIC	270.00/2,500		
SN74ACT10DBR	296-4358-1-ND	Triple 3-Input NAND Gate	14-SSOP	.45	.36	.27
SN74ACT10DBR	296-4358-2-ND	Triple 3-Input NAND Gate	14-SSOP	252.00/2,000		
SN74ACT10PWR	296-4361-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.40	.32	.24
SN74ACT10PWR	296-4361-2-ND	Triple 3-Input NAND Gate	14-TSSOP	224.00/2,000		
SN74ACT11D	296-1455-5-ND	Triple 3-Input AND Gate	14-SOIC	.45	.36	.27
SN74ACT11DBR	296-4362-1-ND	Triple 3-Input AND Gate	14-SSOP	.45	.36	.27
SN74ACT11DBR	296-4362-2-ND	Triple 3-Input AND Gate	14-SSOP	252.00/2,000		
SN74ACT11N	296-4363-5-ND	Triple 3-Input AND Gate	14-Dip	.50	.40	.30
SN74ACT11PWR	296-4364-1-ND	Triple 3-Input AND Gate	14-TSSOP	.45	.36	.27
SN74ACT11PWR	296-4364-2-ND	Triple 3-Input AND Gate	14-TSSOP	252.00/2,000		
SN74ACT14D	296-1068-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.40	.32	.24
SN74ACT14DR	296-1068-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.40	.32	.24
SN74ACT14DR	296-1068-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	270.00/2,500		
SN74ACT14DBR	296-4367-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.40	.32	.24
SN74ACT14DBR	296-4367-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	224.00/2,000		
SN74ACT14N	296-4368-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.45	.36	.27
SN74ACT14PWR	296-4369-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.45	.36	.27
SN74ACT14PWR	296-4369-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	252.00/2,000		
SN74ACT32D	296-1074-5-ND	Quad 2-Input OR Gate	14-SOIC	.45	.36	.27
SN74ACT32DR	296-1074-1-ND	Quad 2-Input OR Gate	14-SOIC	.45	.36	.27
SN74ACT32DR	296-1074-2-ND	Quad 2-Input OR Gate	14-SOIC	305.00/2,500		
SN74ACT32DBR	296-4387-1-ND	Quad 2-Input OR Gate	14-SSOP	.45	.36	.27
SN74ACT32DBR	296-4387-2-ND	Quad 2-Input OR Gate	14-SSOP	252.00/2,000		
SN74ACT32N	296-4388-5-ND	Quad 2-Input OR Gate	14-Dip	.50	.40	.30
SN74ACT32PWR	296-4389-1-ND	Quad 2-Input OR Gate	14-TSSOP	.45	.36	.27
SN74ACT32PWR	296-4389-2-ND	Quad 2-Input OR Gate	14-TSSOP	252.00/2,000		
SN74ACT74D	296-1079-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.46	.37	.26
SN74ACT74DR	296-1079-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	.46	.37	.26
SN74ACT74DR	296-1079-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOIC	297.50/2,500		
SN74ACT74DBR	296-4443-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	.46	.37	.26
SN74ACT74DBR	296-4443-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SSOP	252.00/2,000		
SN74ACT74N	296-4444-5-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-Dip	.45	.36	.27
SN74ACT74NSR	296-13131-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	.50	.40	.30
SN74ACT74NSR	296-13131-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-SOP	280.00/2,000		
SN74ACT74PWR	296-4446-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	.46	.37	.26
SN74ACT74PWR	296-4446-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop with Clear and Preset	14-TSSOP	252.00/2,000		
SN74ACT86D	296-1463-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.45	.36	.27
SN74ACT86DBR	296-4502-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.45	.36	.27
SN74ACT86DBR	296-4502-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	252.00/2,000		
SN74ACT86DR	296-9757-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.45	.36	.27
SN74ACT86DR	296-9757-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	305.00/2,500		
SN74ACT86N	296-4503-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.50	.40	.30
SN74ACT86PWR	296-4504-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.45	.36	.27
SN74ACT86PWR	296-4504-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	252.00/2,000		
SN74ACT240DBR	296-4377-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74ACT240DBR	296-4377-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	372.00/2,000		
SN74ACT240DWR	296-4378-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74ACT240DWR	296-4378-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	372.00/2,000		
SN74ACT240N	296-4379-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74ACT240PWR	296-4380-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.56	.42	.32
SN74ACT240PWR	296-4380-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	372.00/2,000		
SN74ACT241DBR	296-4381-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74ACT241DBR	296-4381-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	372.00/2,000		
SN74ACT241DW	296-4382-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74ACT241N	296-4383-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74ACT241PWR	296-4384-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.56	.42	.32
SN74ACT241PWR	296-4384-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	372.00/2,000		
SN74ACT244DBR	296-1069-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.80	.60	.45
SN74ACT244DBR	296-1069-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	532.00/2,000		
SN74ACT244DW	296-1070-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74ACT244DWR	296-1070-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74ACT244DWR	296-1070-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	532.00/2,000		
SN74ACT244IDWREP	296-19502-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	2.18	1.74	1.31
SN74ACT244IDWREP	296-19502-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	2262.00/2,000		
SN74ACT244N	296-4385-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.80	.60	.45
SN74ACT244PWR	296-1071-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.80	.60	.45
SN74ACT244PWR	296-1071-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	532.00/2,000		
SN74ACT245DBR	296-4386-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74ACT245DBR	296-4386-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	532.00/2,000		
SN74ACT245DW	296-1072-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74ACT245DWR	296-1072-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74ACT245DWR	296-1072-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	532.00/2,000		
SN74ACT245N	296-1460-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.80	.60	.45
SN74ACT245PWR	296-1073-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.80	.60	.45
SN74ACT245PWR	296-1073-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	532.00/2,000		
SN74ACT373DBR	296-4420-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.80	.60	.45
SN74ACT373DBR	296-4420-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	532.00/2,000		
SN74ACT373DW	296-4421-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.80	.60	.45
SN74ACT373N	296-4422-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.80	.60	.45
SN74ACT373PWR	296-1075-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.80	.60	.45
SN74ACT373PWR	296-1075-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	532.00/2,000		
SN74ACT374DBR	296-1076-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ACT374DBR	296-1076-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74ACT374DW	296-1077-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ACT374DWR	296-1077-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ACT374DWR	296-1077-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74ACT374PWR	296-4423-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ACT374PWR	296-4423-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74ACT533DBR	296-4424-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.54	.41	.31
SN74ACT533DBR	296-4424-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	360.00/2,000		
SN74ACT533DW	296-4425-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.54	.41	.31
SN74ACT533N	296-4426-5-ND	Tri-St. Octal D-Type Transparent Latch	20-Dip	.54	.41	.31
SN74ACT533PWR	296-4427-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.54	.41	.31
SN74ACT533PWR	296-4427-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	360.00/2,000		
SN74ACT534DBR	296-4428-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.54	.41	.31
SN74ACT534DBR	296-4428-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	360.00/2,000		
SN74ACT534DW	296-4429-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.54	.41	.31
SN74ACT534DWR	296-4429-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.54	.41	.31
SN74ACT534DWR	296-4429-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	360.00/2,000		
SN74ACT534PWR	296-4430-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.54	.41	.31
SN74ACT534PWR	296-4430-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	360.00/2,000		
SN74ACT563DBR	296-4431-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.54	.41	.31
SN74ACT563DBR	296-4431-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	360.00/2,000		
SN74ACT563DW	296-4432-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.54	.41	.31
SN74ACT564DBR	296-4433-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.64	.48	.36
SN74ACT564DBR	296-4433-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	426.00/2,000		
SN74ACT564DW	296-4434-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.64	.48	.36
SN74ACT564PWR	296-4435-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.64	.48	.36
SN74ACT564PWR	296-4435-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	426.00/2,000		
SN74ACT573DBR	296-4436-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.80	.60	.45
SN74ACT573DBR	296-4436-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	532.00/2,000		
SN74ACT573DW	296-4437-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.80	.60	.45
SN74ACT573N	296-4438-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.80	.60	.45
SN74ACT573PWR	296-4439-1-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	.80	.60	.45
SN74ACT573PWR	296-4439-2-ND	Tri-State Octal D-Type Transp. Latch	20-TSSOP	532.00/2,000		
SN74ACT574DBR	296-4440-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74ACT574DBR	296-4440-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74ACT574DW	296-4441-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74ACT574N	296-4442-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
SN74ACT574PWR	296-1078-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74ACT574PWR	296-1078-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74ACT1071DR	296-14692-1-ND	10-Bit Bus Termination Array	14-SOIC	2.30	1.84	1.38
SN74ACT1071DR	296-14692-2-ND	10-Bit Bus Termination Array	14-SOIC	2945.00/2,500		
SN74ACT1073DWR	296-14693-1-ND	16-Bit Bus Termination Array	20-SOIC	2.59	2.07	1.61
SN74ACT1073DWR	296-14693-2-ND	16-Bit Bus Termination Array	20-SOIC	2932.00/2,000		
SN74ACT1284DBR	296-4365-1-ND	Tri-State 7-Bit Bus Interface	20-SSOP	.84	.70	.56
SN74ACT1284DBR	296-4365-2-ND	Tri-State 7-Bit Bus Interface	20-SSOP	744.00/2,000		
SN74ACT1284DW	296-1067-5-ND	Tri-State 7-Bit Bus Interface	20-SOIC	.84	.70	.56
SN74ACT1284DWR	296-1067-1-ND	Tri-State 7-Bit Bus Interface	20-SOIC	.84	.70	.56
SN74ACT1284DWR	296-1067-2-ND	Tri-State 7-Bit Bus Interface	20-SOIC	744.00/2,000		
SN74ACT1284PWR	296-4366-1-ND	Tri-State 7-Bit Bus Interface	20-TSSOP	.84	.70	.56
SN74ACT1284PWR	296-4366-2-ND	Tri-State 7-Bit Bus Interface	20-TSSOP	744.00/2,000		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ACT8990FN	296-4505-5-ND	16-Bit Test-Bus Controller Tap Master	44-PLCC	27.00	25.20	23.40
SN74ACT8990FNR	296-4505-1-ND	16-Bit Test-Bus Controller Tap Master	44-PLCC	27.00	25.20	23.40
SN74ACT8990FNR	296-4505-2-ND	16-Bit Test-Bus Controller Tap Master	44-PLCC	11250.00/500		
SN74ACT8997DW	296-4506-5-ND	Scan Path Linker with 4-Bit ID	28-SOIC	8.33	7.50	6.65
SN74ACT8997DWR	296-15977-1-ND	Scan Path Linker with 4-Bit ID	28-SOIC	8.33	7.50	6.65
SN74ACT8997DWR	296-15977-2-ND	Scan Path Linker with 4-Bit ID	28-SOIC	6175.00/1,000		
SN74ACT16245QDLREP	296-18124-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.33	4.27	3.32
SN74ACT16245QDLREP	296-18124-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	3022.00/1,000		

AHC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AHC00DBR	296-4507-1-ND	Quad 2-Input Positive NAND Gate	14-SSOP	.46	.37	.26
SN74AHC00DBR	296-4507-2-ND	Quad 2-Input Positive NAND Gate	14-SSOP	252.00/2,000		
SN74AHC00DGVR	296-4508-1-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	.50	.40	.30
SN74AHC00DGVR	296-4508-2-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	280.00/2,000		
SN74AHC00DR	296-4509-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.46	.37	.26
SN74AHC00DR	296-4509-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC	297.50/2,500		
SN74AHC00N	296-4510-5-ND	Quad 2-Input Positive NAND Gate	14-Dip	.53	.42	.32
SN74AHC00NSR	296-13132-1-ND	Quad 2-Input Positive NAND Gate	14-SOP	.46	.37	.26
SN74AHC00NSR	296-13132-2-ND	Quad 2-Input Positive NAND Gate	14-SOP	252.00/2,000		
SN74AHC00PWR	296-1080-1-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	.46	.37	.26
SN74AHC00PWR	296-1080-2-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	252.00/2,000		
SN74AHC00QPWRQ1	296-17742-1-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	.60	.45	.34
SN74AHC00QPWRQ1	296-17742-2-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	400.00/2,000		
SN74AHC00RGYR	296-13893-1-ND	Quad 2-Input Positive NAND Gate	14-QFN	.55	.44	.33
SN74AHC00RGYR	296-13893-2-ND	Quad 2-Input Positive NAND Gate	14-QFN	154.00/1,000		
SN74AHC02D	296-4511-5-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.26
SN74AHC02DR	296-4511-1-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.26
SN74AHC02DR	296-4511-2-ND	Quad 2-Input NOR Gate	14-SOIC	297.50/2,500		
SN74AHC02DBR	296-4512-1-ND	Quad 2-Input NOR Gate	14-SSOP	.46	.37	.26
SN74AHC02DBR	296-4512-2-ND	Quad 2-Input NOR Gate	14-SSOP	252.00/2,000		
SN74AHC02DGVR	296-4513-1-ND	Quad 2-Input NOR Gate	14-TVSOP	.50	.40	.30
SN74AHC02DGVR	296-4513-2-ND	Quad 2-Input NOR Gate	14-TVSOP	280.00/2,000		
SN74AHC02N	296-4514-5-ND	Quad 2-Input NOR Gate	14-Dip	.53	.42	.32
SN74AHC02PWR	296-4515-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.46	.37	.26
SN74AHC02PWR	296-4515-2-ND	Quad 2-Input NOR Gate	14-TSSOP	252.00/2,000		
SN74AHC02RGYR	296-13894-1-ND	Quad 2-Input NOR Gate	14-QFN	.60	.45	.34
SN74AHC02RGYR	296-13894-2-ND	Quad 2-Input NOR Gate	14-QFN	200.00/1,000		
SN74AHC04D	296-4516-5-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74AHC04DR	296-4516-1-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74AHC04DR	296-4516-2-ND	Hex Inverter	14-SOIC	297.50/2,500		
SN74AHC04DBR	296-4517-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74AHC04DBR	296-4517-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74AHC04DGVR	296-4518-1-ND	Hex Inverter	14-TVSOP	.50	.40	.30
SN74AHC04DGVR	296-4518-2-ND	Hex Inverter	14-TVSOP	280.00/2,000		
SN74AHC04N	296-4519-5-ND	Hex Inverter	14-Dip	.53	.42	.32
SN74AHC04PWR	296-1081-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74AHC04PWR	296-1081-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74AHC04QDRQ1	296-18532-1-ND	Hex Inverter	14-SOIC	.41	.33	.25
SN74AHC04QDRQ1	296-18532-2-ND	Hex Inverter	14-SOIC	277.50/2,500		
SN74AHC04RGYR	296-13895-1-ND	Hex Inverter	14-QFN	.55	.44	.33
SN74AHC04RGYR	296-13895-2-ND	Hex Inverter	14-QFN	154.00/1,000		
SN74AHC05D	296-1997-5-ND	Hex Inverter with OD Output	14-SOIC	.46	.37	.26
SN74AHC05DT	296-1997-1-ND	Hex Inverter with OD Output	14-SOIC	.46	.37	.26
SN74AHC05DR	296-1997-2-ND	Hex Inverter with OD Output	14-SOIC	297.50/2,500		
SN74AHC05N	296-1464-5-ND	Hex Inverter with OD Output	14-Dip	.53	.42	.32
SN74AHC05PWR	296-4520-1-ND	Hex Inverter with OD Output	14-TSSOP	.46	.37	.26
SN74AHC05PWR	296-4520-2-ND	Hex Inverter with OD Output	14-TSSOP	252.00/2,000		
SN74AHC08D	296-4523-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.46	.37	.26
SN74AHC08DBR	296-4521-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.46	.37	.26
SN74AHC08DBR	296-4521-2-ND	Quad 2-Input Positive AND Gate	14-SSOP	252.00/2,000		
SN74AHC08DGVR	296-4522-1-ND	Quad 2-Input Positive AND Gate	14-TVSOP	.50	.40	.30
SN74AHC08DGVR	296-4522-2-ND	Quad 2-Input Positive AND Gate	14-TVSOP	280.00/2,000		
SN74AHC08DR	296-4523-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.46	.37	.26
SN74AHC08DR	296-4523-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	297.50/2,500		
SN74AHC08N	296-4524-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.53	.42	.32
SN74AHC08NSR	296-13133-1-ND	Quad 2-Input Positive AND Gate	14-SOP	.46	.37	.26
SN74AHC08NSR	296-13133-2-ND	Quad 2-Input Positive AND Gate	14-SOP	252.00/2,000		
SN74AHC08PWR	296-1082-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.46	.37	.26
SN74AHC08PWR	296-1082-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP	252.00/2,000		
SN74AHC08QDRQ1	296-18533-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.60	.45	.34
SN74AHC08QDRQ1	296-18533-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	487.50/2,500		
SN74AHC08RGYR	296-13896-1-ND	Quad 2-Input Positive AND Gate	14-QFN	.52	.39	.30
SN74AHC08RGYR	296-13896-2-ND	Quad 2-Input Positive AND Gate	14-QFN	173.00/1,000		
SN74AHC14DBR	296-4548-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.46	.37	.26
SN74AHC14DBR	296-4548-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	252.00/2,000		
SN74AHC14DGVR	296-4549-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.55	.44	.33
SN74AHC14DGVR	296-4549-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	308.00/2,000		
SN74AHC14DR	296-1085-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74AHC14DR	296-1085-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	297.50/2,500		
SN74AHC14N	296-4550-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.53	.42	.32
SN74AHC14PWR	296-1086-1-ND	Hex Schmitt Trigger Inverter	14-TSSOP	.46	.37	.26
SN74AHC14PWR	296-1086-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	252.00/2,000		
SN74AHC14QDRQ1	296-18534-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.60	.45	.34
SN74AHC14QDRQ1	296-18534-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	487.50/2,500		
SN74AHC14QPWRQ1	296-13863-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.60	.45	.34
SN74AHC14QPWRQ1	296-13863-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	400.00/2,000		
SN74AHC14RGYR	296-13901-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.60	.45	.34
SN74AHC14RGYR	296-13901-2-ND	Hex Schmitt-Trigger Inverter	14-QFN	200.00/1,000		
SN74AHC32DBR	296-4593-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.46	.37	.26
SN74AHC32DBR	296-4593-2-ND	Quad 2-Input Positive OR Gate	14-SSOP	252.00/2,000		
SN74AHC32DGVR	296-4594-1-ND	Quad 2-Input Positive OR Gate	14-TVSOP	.50	.40	.30
SN74AHC32DGVR	296-4594-2-ND	Quad 2-Input Positive OR Gate	14-TVSOP	280.00/2,000		
SN74AHC32DR	296-4595-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.46	.37	.26
SN74AHC32DR	296-4595-2-ND	Quad 2-Input Positive OR Gate	14-SOIC	297.50/2,500		
SN74AHC32N	296-4596-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.53	.42	.32
SN74AHC32NSR	296-13136-1-ND	Quad 2-Input Positive OR Gate	14-SOP	.46	.37	.26
SN74AHC32NSR	296-13136-2-ND	Quad 2-Input Positive OR Gate	14-SOP	252.00/2,000		
SN74AHC32PWR	296-1099-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.46	.37	.26
SN74AHC32PWR	296-1099-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	252.00/2,000		
SN74AHC32QDRQ1	296-17497-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.60	.45	.34
SN74AHC32QDRQ1	296-17497-2-ND	Quad 2-Input Positive OR Gate	14-SOIC	487.50/2,500		
SN74AHC32QPWRQ1	296-17540-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.60	.45	.34
SN74AHC32QPWRQ1	296-17540-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP	400.00/2,000		
SN74AHC32RGYR	296-13903-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.60	.45	.34
SN74AHC32RGYR	296-13903-2-ND	Quad 2-Input Positive OR Gate	14-QFN	200.00/1,000		
SN74AHC74D	296-1105-5-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	.46	.37	.26
SN74AHC74DR	296-1105-1-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	.46	.37	.26
SN74AHC74DR	296-1105-2-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	297.50/2,500		
SN74AHC74DBR	296-4621-1-ND	Dual D-Type F/F with Clear/Preset	14-SSOP	.46	.37	.26
SN74AHC74DBR	296-4621-2-ND	Dual D-Type F/F with Clear/Preset	14-SSOP	252.00/2,000		
SN74AHC74DGVR	296-4622-1-ND	Dual D-Type F/F with Clear/Preset	14-TVSOP	.50	.40	.30
SN74AHC74DGVR	296-4622-2-ND	Dual D-Type F/F with Clear/Preset	14-TVSOP	280.00/2,000		
SN74AHC74N	296-4623-5-ND	Dual D-Type F/F with Clear/Preset	14-Dip	.53	.42	.32
SN74AHC74PWR	296-4624-1-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	.46	.37	.26
SN74AHC74PWR	296-4624-2-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	252.00/2,000		
SN74AHC74QDRQ1	296-17298-1-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	.64	.48	.36
SN74AHC74QDRQ1	296-17298-2-ND	Dual D-Type F/F with Clear/Preset	14-SOIC	520.00/2,500		
SN74AHC74QPWRQ1	296-17496-1-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	.64	.48	.36
SN74AHC74QPWRQ1	296-17496-2-ND	Dual D-Type F/F with Clear/Preset	14-TSSOP	426.00/2,000		
SN74AHC74RGYR	296-13904-1-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN	.52	.39	.30
SN74AHC74RGYR	296-13904-2-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN	173.00/1,000		
SN74AHC86D	296-4625-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.37	.26
SN74AHC86DR	296-4625-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.37	.26
SN74AHC86DR	296-4625-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	297.50/2,500		
SN74AHC86DBR	296-4626-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.46	.37	.26
SN74AHC86DBR	296-4626-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	252.00/2,000		
SN74AHC86N	296-4627-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.53	.42	.32
SN74AHC86PWR	296-4628-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.40	.32	.24
SN74AHC86PWR	296-4628-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	224.00/2,000		
SN74AHC86RGYR	296-13905-1-ND	Quad 2-Input Exclusive OR Gate	14-QFN	.60	.45	.34
SN74AHC86RGYR	296-13905-2-ND	Quad 2-Input Exclusive OR Gate	14-QFN	200.00/1,000		
SN74AHC123ADBR	296-4525-1-ND	Dual Retrig Monostable Multivibrator	16-SSOP	.55	.44	.33
SN74AHC123ADBR	296-4525-2-ND	Dual Retrig Monostable Multivibrator	16-SSOP	308.00/2,000		
SN74AHC123ADGVR	296-4526-1-ND	Dual Retrig Monostable Multivibrator	16-TVSOP	.60	.45	.34
SN74AHC123ADGVR	296-4526-2-ND	Dual Retrig Monostable Multivibrator	16-TVSOP	400.00/2,000		
SN74AHC123ADR	296-4527-1-ND	Dual Retrig Monostable Multivibrator	16-SOIC	.55	.44	.33
SN74AHC123ADR	296-4527-2-ND	Dual Retrig Monostable Multivibrator	16-SOIC	372.50/2,500		
SN74AHC123APWR	296-4528-1-ND	Dual Retrig Monostable Multivibrator	16-TSSOP	.55	.44	.33
SN74AHC123APWR	296-4528-2-ND	Dual Retrig Monostable Multivibrator	16-TSSOP	308.00/2,000		
SN74AHC125DBR	296-4529-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74AHC125DBR	296-4529-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	308.00/2,000		
SN74AHC125DR	296-4530-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74AHC125DR	296-4530-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	372.50/2,500		
SN74AHC125N	296-4531-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.55	.44	.33
SN74AHC125PWR	296-1083-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.55	.44	.33
SN74AHC125PWR	296-1083-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	308.00/2,000		
SN74AHC125QPWRQ1	296-17494-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.52	.39	.30
SN74AHC125QPWRQ1	296-17494-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	344.00/2,000		
SN74AHC125RGYR	296-13897-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.48	.36	.27
SN74AHC125RGYR	296-13897-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	160.00/1,000		
SN74AHC126DBR	296-4532-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74AHC126DBR	296-4532-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	308.00/2,000		
SN74AHC126DGVR	296-4533-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.55	.44	.33
SN74AHC126DGVR	296-4533-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	308.00/2,000		
SN74AHC126DR	296-4534-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74AHC126DR	296-4534-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	372.50/2,500		
SN74AHC126N	296-4535-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.55	.44	.33
SN74AHC126PWR	296-4536-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.55	.44	.33
SN74AHC126PWR	296-4536-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	308.00/2,000		
SN74AHC132D	296-1465-5-ND	Quad NAND Gate	14-SOIC	.55	.44	.33
SN74AHC132DR	296-1465-1-ND	Quad NAND Gate	14-SOIC	.55	.44	.33
SN74AHC132DR	296-1465-2-ND	Quad NAND Gate	14-SOIC	372.50/2,500		
SN74AHC132DBR	296-4537-1-ND	Quad NAND Gate	14-SSOP	.55	.44	.33
SN74AHC132DBR	296-4537-2-ND	Quad NAND Gate	14-SSOP	308.00/2,000		
SN74AHC132DGVR	296-4538-1-ND	Quad NAND Gate	14-TVSOP	.55	.44	.33
SN74AHC132DGVR	296-4538-2-ND	Quad NAND Gate	14-TVSOP	308.00/2,000		
SN74AHC132N	296-1466-5-ND	Quad NAND Gate	14-Dip	.55	.44	.33
SN74AHC132PWR	296-4539-1-ND	Quad NAND Gate	14-TSSOP	.55	.44	.33
SN74AHC132PWR	296-4539-2-ND	Quad NAND Gate	14-TSSOP	308.00/2,000		
SN74AHC132RGYR	296-13898-1-ND	Quad NAND Gate	14-QFN	.48	.36	.27
SN74AHC132RGYR	296-13898-2-ND	Quad NAND Gate	14-QFN	160.00/1,000		
SN74AHC138D	296-4540-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.55	.44	.33
SN74AHC138DR	296-4540-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.55	.44	.33
SN74AHC138DR	296-4540-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	372.50/2,500		
SN74AHC138DBR	296-4541-1-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	.55	.44	.33
SN74AHC138DBR	296-4541-2-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	308.00/2,000		
SN74AHC138N	296-4542-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.55	.44	.33
SN74AHC138PWR	296-1084-1-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	.55	.44	.33
SN74AHC138PWR	296-1084-2-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	308.00/2,000		
SN74AHC138RGYR	296-13899-1-ND	3-8 Line Decoder/Demultiplexer	16-QFN	.60	.45	.34
SN74AHC138RGYR	296-13899-2-ND	3-8 Line Decoder/Demultiplexer	16-QFN	200.00/1,000		
SN74AHC139D	296-4543-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.55	.44	.33
SN74AHC139DBR	296-4544-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	.55	.44	.33
SN74AHC139DBR	296-4544-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	308.00/2,000		
SN74AHC139DGVR	296-4545-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	.48	.36	.27
SN74AHC139DGVR	296-4545-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	320.00/2,000		
SN74AHC139N	296-4546-5-ND	Dual 2-4 Decoder/Demultiplexer	16-Dip	.55	.44	.33
SN74AHC139PWR	296-4547-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	.55	.44	.33
SN74AHC139PWR	296-4547-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	308.00/2,000		
SN74AHC139RGYR	296-13900-1-ND	Dual 2-4 Decoder/Demultiplexer	16-QFN	.60	.45	.34
SN74AHC139RGYR	296-13900-2-ND	Dual 2-4 Decoder/Demultiplexer	16-QFN	200.00/1,000		
SN74AHC157D	296-4551-5-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	.64	.48	.36
SN74AHC157DBR	296-4552-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SSOP	.64	.48	.36
SN74AHC157DBR	296-4552-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SSOP	426.00/2,000		
SN74AHC157DGVR	296-4553-1-ND	Quad 2-1 Data Selector/Multiplexer	16-TVSOP	.64	.48	.36
SN74AHC157DGVR	296-4553-2-ND	Quad 2-1 Data Selector/Multiplexer	16-TVSOP	426.00/2,000		
SN74AHC157DR	296-14700-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	.64	.48	.36
SN74AHC157DR	296-14700-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	520.00/2,500		
SN74AHC157N	296-4554-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.64	.48	.36
SN74AHC157NSR	296-13134-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SOP	.64	.48	.36
SN74AHC157NSR	296-13134-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SOP	426.00/2,000		
SN74AHC157PWR	296-4555-1-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	.64	.48	.36
SN74AHC157PWR	296-4555-2-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	426.00/2,000		
SN74AHC157RGYR	296-13902-1-ND	Quad 2-1 Data Selector/Multiplexer	16-QFN	.64	.48	.36
SN74AHC157RGYR	296-13902-2-ND	Quad 2-1 Data Selector/Multiplexer	16-QFN	213.00/1,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AHC158DBR	296-4556-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SSOP	.55	.44	.33
SN74AHC158DBR	296-4556-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SSOP	308.00/2,000		
SN74AHC158DGVR	296-4557-1-ND	Quad 2-1 Data Selector/Multiplexer	16-TVSOP	.55	.44	.33
SN74AHC158DGVR	296-4557-2-ND	Quad 2-1 Data Selector/Multiplexer	16-TVSOP	308.00/2,000		
SN74AHC158DR	296-4558-1-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	.55	.44	.33
SN74AHC158DR	296-4558-2-ND	Quad 2-1 Data Selector/Multiplexer	16-SOIC	372.50/2,500		
SN74AHC158PWR	296-4559-1-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	.55	.44	.33
SN74AHC158PWR	296-4559-2-ND	Quad 2-1 Data Selector/Multiplexer	16-TSSOP	308.00/2,000		
SN74AHC174D	296-1467-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.55	.44	.33
SN74AHC174DBR	296-4578-1-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	.55	.44	.33
SN74AHC174DBR	296-4578-2-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	308.00/2,000		
SN74AHC174N	296-1468-5-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.55	.44	.33
SN74AHC174PWR	296-12739-1-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	.55	.44	.33
SN74AHC174PWR	296-12739-2-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	308.00/2,000		
SN74AHC240DBR	296-4579-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHC240DBR	296-4579-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74AHC240DGVR	296-12858-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.60	.45	.34
SN74AHC240DGVR	296-12858-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	400.00/2,000		
SN74AHC240DW	296-4580-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74AHC240DWR	296-4580-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74AHC240DWR	296-4580-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	400.00/2,000		
SN74AHC240N	296-4581-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.66	.50	.38
SN74AHC240PWR	296-4582-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74AHC240PWR	296-4582-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	400.00/2,000		
SN74AHC244DBR	296-4583-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHC244DBR	296-4583-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74AHC244DGVR	296-4584-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.60	.45	.34
SN74AHC244DGVR	296-4584-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	400.00/2,000		
SN74AHC244DW	296-1096-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74AHC244DWR	296-1096-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74AHC244DWR	296-1096-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	400.00/2,000		
SN74AHC244N	296-4585-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.66	.50	.38
SN74AHC244PWR	296-1097-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74AHC244PWR	296-1097-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	400.00/2,000		
SN74AHC244QDWRQ1	296-17495-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.70	.53	.40
SN74AHC244QDWRQ1	296-17495-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	468.00/2,000		
SN74AHC244QPWR	296-17013-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.96	.72	.54
SN74AHC244QPWR	296-17013-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	638.00/2,000		
SN74AHC245DBR	296-4586-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.48	.36	.27
SN74AHC245DBR	296-4586-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	320.00/2,000		
SN74AHC245DGVR	296-4587-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.80	.60	.45
SN74AHC245DGVR	296-4587-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	532.00/2,000		
SN74AHC245DW	296-4588-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.48	.36	.27
SN74AHC245N	296-4589-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.57	.43	.33
SN74AHC245NSR	296-13135-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.57	.43	.33
SN74AHC245NSR	296-13135-2-ND	Tri-State Octal Bus Transceiver	20-SOP	380.00/2,000		
SN74AHC245PWR	296-1098-1-ND	Tri-State Octal Transceiver	20-TSSOP	.48	.36	.27
SN74AHC245PWR	296-1098-2-ND	Tri-State Octal Transceiver	20-TSSOP	320.00/2,000		
SN74AHC273DBR	296-4590-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.56	.42	.32
SN74AHC273DBR	296-4590-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	372.00/2,000		
SN74AHC273DGVR	296-4591-1-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	.60	.45	.34
SN74AHC273DGVR	296-4591-2-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	400.00/2,000		
SN74AHC273DW	296-1470-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.56	.42	.32
SN74AHC273DWR	296-1470-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.56	.42	.32
SN74AHC273DWR	296-1470-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	372.00/2,000		
SN74AHC273N	296-1471-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.56	.42	.32
SN74AHC273PWR	296-4592-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.56	.42	.32
SN74AHC273PWR	296-4592-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	372.00/2,000		
SN74AHC367DR	296-4597-1-ND	Tri-State Hex Buff/Driver	16-SOIC	1.05	.88	.70
SN74AHC367DR	296-4597-2-ND	Tri-State Hex Buff/Driver	16-SOIC	1137.50/2,500		
SN74AHC373DBR	296-4598-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.60	.45	.34
SN74AHC373DBR	296-4598-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	400.00/2,000		
SN74AHC373DGVT	296-17111-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.72	.54	.41
SN74AHC373DGVT	296-17111-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	478.00/2,000		
SN74AHC373DW	296-4599-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.60	.45	.34
SN74AHC373N	296-4600-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.66	.50	.38
SN74AHC373NSR	296-13137-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOP	.60	.45	.34
SN74AHC373NSR	296-13137-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOP	400.00/2,000		
SN74AHC373PWR	296-1100-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.60	.45	.34
SN74AHC373PWR	296-1100-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	400.00/2,000		
SN74AHC374DBR	296-1101-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74AHC374DBR	296-1101-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	400.00/2,000		
SN74AHC374DGVR	296-4601-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.60	.45	.34
SN74AHC374DGVR	296-4601-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	400.00/2,000		
SN74AHC374DWR	296-4602-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74AHC374DWR	296-4602-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	400.00/2,000		
SN74AHC374N	296-4603-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
SN74AHC374PWR	296-1102-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	.34
SN74AHC374PWR	296-1102-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	400.00/2,000		
SN74AHC540DBR	296-4604-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74AHC540DBR	296-4604-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	372.00/2,000		
SN74AHC540DW	296-4605-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74AHC540DWR	296-4605-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74AHC540DWR	296-4605-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	372.00/2,000		
SN74AHC540N	296-4606-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74AHC540PWR	296-4607-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.56	.42	.32
SN74AHC540PWR	296-4607-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	372.00/2,000		
SN74AHC541DBR	296-4608-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74AHC541DBR	296-4608-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	372.00/2,000		
SN74AHC541DGVR	296-12740-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.56	.42	.32
SN74AHC541DGVR	296-12740-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	372.00/2,000		
SN74AHC541DWR	296-4609-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74AHC541DWR	296-4609-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	372.00/2,000		
SN74AHC541N	296-4610-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.56	.42	.32
SN74AHC541NSR	296-13138-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.56	.42	.32
SN74AHC541NSR	296-13138-2-ND	Tri-State Octal Buffer/Driver	20-SOP	372.00/2,000		
SN74AHC541PWR	296-1103-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.56	.42	.32
SN74AHC541PWR	296-1103-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	372.00/2,000		
SN74AHC541QPWRQ1	296-19592-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	.66	.50	.37
SN74AHC541QPWRQ1	296-19592-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	436.00/2,000		
SN74AHC573DBR	296-4611-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.60	.45	.34
SN74AHC573DBR	296-4611-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	400.00/2,000		
SN74AHC573DGVR	296-13818-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.60	.45	.34
SN74AHC573DGVR	296-13818-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	400.00/2,000		
SN74AHC573DW	296-4612-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.60	.45	.34
SN74AHC573DWR	296-4612-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.60	.45	.34
SN74AHC573DWR	296-4612-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	400.00/2,000		
SN74AHC573N	296-4613-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.66	.50	.38
SN74AHC573PWR	296-1104-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.60	.45	.34
SN74AHC573PWR	296-1104-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	400.00/2,000		
SN74AHC574DBR	296-4614-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74AHC574DBR	296-4614-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	400.00/2,000		
SN74AHC574DWR	296-4615-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74AHC574DWR	296-4615-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	400.00/2,000		
SN74AHC574N	296-4616-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
SN74AHC574PWR	296-4617-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	.34
SN74AHC574PWR	296-4617-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	400.00/2,000		
SN74AHC594D	296-15394-5-ND	8-Bit Shift Register	16-SOIC	.96	.72	.54
SN74AHC595D	296-4618-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.96	.72	.54
SN74AHC595N	296-4619-5-ND	Tri-State 8-Bit Shift Register	16-Dip	.96	.72	.54
SN74AHC595PWR	296-4620-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.96	.72	.54
SN74AHC595PWR	296-4620-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	638.00/2,000		
SN74AHC4066DGVR	296-17112-1-ND	Quad Bilateral Analog Switch	14-TVSOP	.75	.63	.50
SN74AHC4066DGVR	296-17112-2-ND	Quad Bilateral Analog Switch	14-TVSOP	666.00/2,000		
SN74AHC4066DR	296-15256-1-ND	Quad Bilateral Analog Switch	14-SOIC	.75	.63	.50
SN74AHC4066DR	296-15256-2-ND	Quad Bilateral Analog Switch	14-SOIC	812.50/2,500		
SN74AHC4066PWR	296-15257-1-ND	Quad Bilateral Analog Switch	14-TSSOP	.75	.63	.50
SN74AHC4066PWR	296-15257-2-ND	Quad Bilateral Analog Switch	14-TSSOP	666.00/2,000		
SN74AHC4066RGYR	296-15258-1-ND	Quad Bilateral Analog Switch	14-QFN	.84	.70	.56
SN74AHC4066RGYR	296-15258-2-ND	Quad Bilateral Analog Switch	14-QFN	372.00/1,000		
SN74AHC16240DGGR	296-4560-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.38	1.15	.92
SN74AHC16240DGGR	296-4560-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1224.00/2,000		
SN74AHC16240DGVR	296-4561-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.38	1.15	.92
SN74AHC16240DGVR	296-4561-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1224.00/2,000		
SN74AHC16240DL	296-4562-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.38	1.15	.92
SN74AHC16244DGGR	296-4563-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.38	1.15	.92
SN74AHC16244DGGR	296-4563-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1224.00/2,000		
SN74AHC16244DGVR	296-4564-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.38	1.15	.92
SN74AHC16244DGVR	296-4564-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1224.00/2,000		
SN74AHC16244DL	296-4565-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.38	1.15	.92
SN74AHC16373DGGR	296-4566-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.38	1.15	.92
SN74AHC16373DGGR	296-4566-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1224.00/2,000		
SN74AHC16373DGVR	296-4567-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1.38	1.15	.92
SN74AHC16373DGVR	296-4567-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1224.00/2,000		
SN74AHC16373DL	296-4568-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.38	1.15	.92
SN74AHC16373DLR	296-4568-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.38	1.15	.92
SN74AHC16373DLR	296-4568-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	612.00/1,000		
SN74AHC16374DGGR	296-4569-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.38	1.15	.92
SN74AHC16374DGGR	296-4569-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1224.00/2,000		
SN74AHC16374DGVR	296-4570-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1.38	1.15	.92
SN74AHC16374DGVR	296-4570-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1224.00/2,000		
SN74AHC16374DL	296-4571-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.38	1.15	.92
SN74AHC16540DGGR	296-4572-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.38	1.15	.92
SN74AHC16540DGGR	296-4572-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1224.00/2,000		
SN74AHC16540DGVR	296-4573-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.38	1.15	.92
SN74AHC16540DGVR	296-4573-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1224.00/2,000		
SN74AHC16540DL	296-4574-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.38	1.15	.92
SN74AHC16541DGGR	296-4575-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.38	1.15	.92
SN74AHC16541DGGR	296-4575-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1224.00/2,000		
SN74AHC16541DGVR	296-4576-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.38	1.15	.92
SN74AHC16541DGVR	296-4576-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1224.00/2,000		
SN74AHC16541DL	296-4577-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.38	1.15	.92

AHCT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AHCT00D	296-4629-5-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
SN74AHCT00DR	296-4629-1-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
SN74AHCT00DR	296-4629-2-ND	Quad 2-Input NAND Gate	14-SOIC	297.50/2,500		
SN74AHCT00DBR	296-4630-1-ND	Quad 2-Input NAND Gate	14-SSOP	.46	.37	.26
SN74AHCT00DBR	296-4630-2-ND	Quad 2-Input NAND Gate	14-SSOP	252.00/2,000		
SN74AHCT00DGVR	296-4631-1-ND	Quad 2-Input NAND Gate	14-TVSOP	.50	.40	.30
SN74AHCT00DGVR	296-4631-2-ND	Quad 2-Input NAND Gate	14-TVSOP	280.00/2,000		
SN74AHCT00N	296-4632-5-ND	Quad 2-Input NAND Gate	14-Dip	.53	.42	.32
SN74AHCT00PWR	296-4633-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.46	.37	.26
SN74AHCT00PWR	296-4633-2-ND	Quad 2-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74AHCT00QDRQ1	296-14349-1-ND	Quad 2-Input NAND Gate	14-SOIC	.60	.45	.34
SN74AHCT00QDRQ1	296-14349-2-ND	Quad 2-Input NAND Gate	14-SOIC	487.50/2,500		
SN74AHCT00QPWRQ1	296-13864-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.60	.45	.34
SN74AHCT00QPWRQ1	296-13864-2-ND	Quad 2-Input NAND Gate	14-TSSOP	400.00/2,000		
SN74AHCT00RGYR	296-13906-1-ND	Quad 2-Input NAND Gate	14-QFN	.60	.45	.34
SN74AHCT00RGYR	296-13906-2-ND	Quad 2-Input NAND Gate	14-QFN	200.00/1,000		
SN74AHCT02D	296-4634-5-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.26
SN74AHCT02DR	296-4635-1-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.26
SN74AHCT02DR	296-4635-2-ND	Quad 2-Input NOR Gate	14-SOIC	297.50/2,500		
SN74AHCT02DBR	296-4636-1-ND	Quad 2-Input NO R Gate	14-SSOP	.46	.37	.26
SN74AHCT02DBR	296-4636-2-ND	Quad 2-Input NOR Gate	14-SSOP	252.00/2,000		
SN74AHCT02DGVR	296-4637-1-ND	Quad 2-Input NOR Gate	14-TVSOP	.45	.36	.27
SN74AHCT02DGVR	296-4637-2-ND	Quad 2-Input NOR Gate	14-TVSOP	252.00/2,000		
SN74AHCT02N	296-4638-5-ND	Quad 2-Input NOR Gate	14-Dip	.53	.42	.32
SN74AHCT02PWR	296-4639-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.46	.37	.26
SN74AHCT02PWR	296-4639-2-ND	Quad 2-Input NOR Gate	14-TSSOP	252.00/2,000		
SN74AHCT02RGYR	296-13907-1-ND	Quad 2-Input NOR Gate	14-QFN	.52	.39	.30
SN74AHCT02RGYR	296-13907-2-ND	Quad 2-Input NOR Gate	14-QFN	173.00/1,000		
SN74AHCT04DBR	296-4640-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74AHCT04DBR	296-4640-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74AHCT04DGVR	296-4641-1-ND	Hex Inverter	14-TVSOP	.50	.40	.30
SN74AHCT04DGVR	296-4641-2-ND	Hex Inverter	14-TVSOP	280.00/2,000		
SN74AHCT04DR	296-4642-1-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74AHCT04DR	296-4642-2-ND	Hex Inverter	14-SOIC	297.50/2,500		
SN74AHCT04N	296-4643-5-ND	Hex Inverter	14-Dip	.53	.42	.32
SN74AHCT04NSR	296-13139-1-ND	Hex Inverter	14-SOP	.46	.37	.26
SN74AHCT04NSR	296-13139-2-ND	Hex Inverter	14-SOP	252.00/2,000		
SN74AHCT04PWR	296-1106-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74AHCT04PWR	296-1106-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74AHCT04RGYR	296-13908-1-ND	Hex Inverter	14-QFN	.55	.44	.33
SN74AHCT04RGYR	296-13908-2-ND	Hex Inverter	14-QFN	154.00/1,000		
SN74AHCT08D	296-4644-5-ND	Quad 2-Input Positive AND Gate	14-SOIC	.46	.37	.26
SN74AHCT08DR	296-4644-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.46	.37	.26
SN74AHCT08DR	296-4644-2-ND	Quad 2-Input Positive AND Gate	14-SOIC	297.50/2,500		
SN74AHCT08DBR	296-4645-1-ND	Quad 2-Input Positive AND Gate	14-SSOP	.46	.37	.26

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AHCT08DBR	296-4645-2-ND	Quad 2-Input Positive AND Gate	14-SSOP		252.00/2,000	
SN74AHCT08DGVR	296-4646-1-ND	Quad 2-Input Positive AND Gate	14-TVSOP	.50	.40	.30
SN74AHCT08DGVR	296-4646-2-ND	Quad 2-Input Positive AND Gate	14-TVSOP		280.00/2,000	
SN74AHCT08N	296-4647-5-ND	Quad 2-Input Positive AND Gate	14-Dip	.53	.42	.32
SN74AHCT08NSR	296-13140-1-ND	Quad 2-Input Positive AND Gate	14-SOP	.46	.37	.26
SN74AHCT08NSR	296-13140-2-ND	Quad 2-Input Positive AND Gate	14-SOP		252.00/2,000	
SN74AHCT08PWR	296-1107-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.46	.37	.26
SN74AHCT08PWR	296-1107-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP		252.00/2,000	
SN74AHCT08QDRQ1	296-18292-1-ND	Quad 2-Input Positive AND Gate	14-SOIC	.60	.45	.34
SN74AHCT08QDRQ1	296-18292-2-ND	Quad 2-Input Positive AND Gate	14-SOIC		487.50/2,500	
SN74AHCT08QPWRQ1	296-18535-1-ND	Quad 2-Input Positive AND Gate	14-TSSOP	.60	.45	.34
SN74AHCT08QPWRQ1	296-18535-2-ND	Quad 2-Input Positive AND Gate	14-TSSOP		400.00/2,000	
SN74AHCT08RGYR	296-13909-1-ND	Quad 2-Input Positive AND Gate	14-QFN	.75	.63	.50
SN74AHCT08RGYR	296-13909-2-ND	Quad 2-Input Positive AND Gate	14-QFN		333.00/1,000	
SN74AHCT14D	296-1474-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74AHCT14DR	296-1474-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74AHCT14DR	296-1474-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		297.50/2,500	
SN74AHCT14DBR	296-4672-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.46	.37	.26
SN74AHCT14DBR	296-4672-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP		252.00/2,000	
SN74AHCT14DGVR	296-4673-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.45	.36	.27
SN74AHCT14DGVR	296-4673-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP		252.00/2,000	
SN74AHCT14RGYR	296-13912-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.60	.45	.34
SN74AHCT14RGYR	296-13912-2-ND	Hex Schmitt-Trigger Inverter	14-QFN		200.00/1,000	
SN74AHCT14N	296-4674-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.53	.42	.32
SN74AHCT14NSR	296-13142-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	.46	.37	.26
SN74AHCT14NSR	296-13142-2-ND	Hex Schmitt-Trigger Inverter	14-SOP		252.00/2,000	
SN74AHCT14PWR	296-1110-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.46	.37	.26
SN74AHCT14PWR	296-1110-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP		252.00/2,000	
SN74AHCT14QDRQ1	296-18293-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.60	.45	.34
SN74AHCT14QDRQ1	296-18293-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		487.50/2,500	
SN74AHCT14QPWRQ1	296-13654-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.60	.45	.34
SN74AHCT14QPWRQ1	296-13654-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP		400.00/2,000	
SN74AHCT32D	296-4728-5-ND	Quad 2-Input Positive OR Gate	14-SOIC	.46	.37	.26
SN74AHCT32DBR	296-4729-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.46	.37	.26
SN74AHCT32DBR	296-4729-2-ND	Quad 2-Input Positive OR Gate	14-SSOP		252.00/2,000	
SN74AHCT32DGVR	296-4730-1-ND	Quad 2-Input Positive OR Gate	14-TVSOP	.53	.42	.32
SN74AHCT32DGVR	296-4730-2-ND	Quad 2-Input Positive OR Gate	14-TVSOP		294.00/2,000	
SN74AHCT32DR	296-4731-1-ND	Quad 2-Input Positive OR Gate	14-SOIC	.46	.37	.26
SN74AHCT32DR	296-4731-2-ND	Quad 2-Input Positive OR Gate	14-SOIC		297.50/2,500	
SN74AHCT32N	296-4732-5-ND	Quad 2-Input Positive OR Gate	14-Dip	.53	.42	.32
SN74AHCT32NSR	296-13144-1-ND	Quad 2-Input Positive OR Gate	14-SOP	.46	.37	.26
SN74AHCT32NSR	296-13144-2-ND	Quad 2-Input Positive OR Gate	14-SOP		252.00/2,000	
SN74AHCT32PWR	296-1119-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.46	.37	.26
SN74AHCT32PWR	296-1119-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP		252.00/2,000	
SN74AHCT32QPWRQ1	296-18537-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.41	.33	.25
SN74AHCT32QPWRQ1	296-18537-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP		230.00/2,000	
SN74AHCT32RGYR	296-13913-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.60	.45	.34
SN74AHCT32RGYR	296-13913-2-ND	Quad 2-Input Positive OR Gate	14-QFN		200.00/1,000	
SN74AHCT74D	296-4769-5-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SOIC	.46	.37	.26
SN74AHCT74DBR	296-4770-1-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SSOP	.46	.37	.26
SN74AHCT74DBR	296-4770-2-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SSOP		252.00/2,000	
SN74AHCT74DGVR	296-4771-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TVSOP	.53	.42	.32
SN74AHCT74DGVR	296-4771-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TVSOP		294.00/2,000	
SN74AHCT74DR	296-14704-1-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SOIC	.46	.37	.26
SN74AHCT74DR	296-14704-2-ND	Dual D-Type Flip-Flop with Clear/Preset	14-SOIC		297.50/2,500	
SN74AHCT74N	296-4772-5-ND	Dual D-Type Flip-Flop with Clear/Preset	14-Dip	.53	.42	.32
SN74AHCT74PWR	296-4773-1-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TSSOP	.46	.37	.26
SN74AHCT74PWR	296-4773-2-ND	Dual D-Type Flip-Flop w/Clear/Preset	14-TSSOP		252.00/2,000	
SN74AHCT74RGYR	296-13914-1-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN	.48	.36	.27
SN74AHCT74RGYR	296-13914-2-ND	Dual D-Type Flip-Flop with Clear/Preset	14-QFN		160.00/1,000	
SN74AHCT86DBR	296-4774-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.46	.37	.26
SN74AHCT86DBR	296-4774-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP		252.00/2,000	
SN74AHCT86DGVR	296-4775-1-ND	Quad 2-Input Exclusive OR Gate	14-TVSOP	.45	.36	.27
SN74AHCT86DGVR	296-4775-2-ND	Quad 2-Input Exclusive OR Gate	14-TVSOP		252.00/2,000	
SN74AHCT86DR	296-4776-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.37	.26
SN74AHCT86DR	296-4776-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC		297.50/2,500	
SN74AHCT86N	296-4777-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.53	.42	.32
SN74AHCT86PWR	296-4778-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.40	.32	.24
SN74AHCT86PWR	296-4778-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP		224.00/2,000	
SN74AHCT86RGYR	296-13915-1-ND	Quad 2-Input Exclusive OR Gate	14-QFN	.48	.36	.27
SN74AHCT86RGYR	296-13915-2-ND	Quad 2-Input Exclusive OR Gate	14-QFN		160.00/1,000	
SN74AHCT123ADBR	296-4648-1-ND	Dual Retrig. Mono Multivibrator	16-SSOP	.55	.44	.33
SN74AHCT123ADBR	296-4648-2-ND	Dual Retrig. Mono Multivibrator	16-SSOP		308.00/2,000	
SN74AHCT123ADGVR	296-4649-1-ND	Dual Retrig. Mono Multivibrator	16-TVSOP	.56	.42	.32
SN74AHCT123ADGVR	296-4649-2-ND	Dual Retrig. Mono Multivibrator	16-TVSOP		372.00/2,000	
SN74AHCT123ADR	296-4650-1-ND	Dual Retrig. Mono Multivibrator	16-SOIC	.55	.44	.33
SN74AHCT123ADR	296-4650-2-ND	Dual Retrig. Mono Multivibrator	16-SOIC		372.50/2,500	
SN74AHCT123APWR	296-4651-1-ND	Dual Retrig. Mono Multivibrator	16-TSSOP	.55	.44	.33
SN74AHCT123APWR	296-4651-2-ND	Dual Retrig. Mono Multivibrator	16-TSSOP		308.00/2,000	
SN74AHCT125D	296-4652-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74AHCT125DR	296-4652-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74AHCT125DR	296-4652-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		372.50/2,500	
SN74AHCT125DBR	296-4653-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74AHCT125DBR	296-4653-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		308.00/2,000	
SN74AHCT125DGVR	296-4654-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.55	.44	.33
SN74AHCT125DGVR	296-4654-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP		308.00/2,000	
SN74AHCT125N	296-4655-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.55	.44	.33
SN74AHCT125PWR	296-1108-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.55	.44	.33
SN74AHCT125PWR	296-1108-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		308.00/2,000	
SN74AHCT125QPWRQ1	296-16700-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.85	.69	.47
SN74AHCT125QPWRQ1	296-16700-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		468.00/2,000	
SN74AHCT125RGYR	296-13910-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.60	.45	.34
SN74AHCT125RGYR	296-13910-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN		200.00/1,000	
SN74AHCT126DBR	296-4656-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74AHCT126DBR	296-4656-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		308.00/2,000	
SN74AHCT126DGVR	296-4657-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.55	.44	.33
SN74AHCT126DGVR	296-4657-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP		308.00/2,000	
SN74AHCT126DR	296-4658-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74AHCT126DR	296-4658-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		372.50/2,500	
SN74AHCT126N	296-4659-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.55	.44	.33
SN74AHCT126PWR	296-4660-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.55	.44	.33
SN74AHCT126PWR	296-4660-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		308.00/2,000	
SN74AHCT126QDRQ1	296-17134-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.85	.69	.47
SN74AHCT126QDRQ1	296-17134-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		552.50/2,500	
SN74AHCT132D	296-1472-5-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-SOIC	.55	.44	.33
SN74AHCT132DBR	296-4661-1-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-SSOP	.55	.44	.33
SN74AHCT132DBR	296-4661-2-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-SSOP		308.00/2,000	
SN74AHCT132N	296-1473-5-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-Dip	.55	.44	.33
SN74AHCT132NSR	296-13141-1-ND	Quad Positive NAND Gate with Schmitt-Trigger Input	14-SOP	.55	.44	.33
SN74AHCT132NSR	296-13141-2-ND	Quad Positive NAND Gate with Schmitt-Trigger Input	14-SOP		308.00/2,000	
SN74AHCT132PWR	296-4662-1-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-TSSOP	.55	.44	.33
SN74AHCT132PWR	296-4662-2-ND	Quad Positive NAND Gate with Schmitt-Trigger	14-TSSOP		308.00/2,000	
SN74AHCT138D	296-4663-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.55	.44	.33
SN74AHCT138DBR	296-4664-1-ND	3-8 Line Decoder/Demultiplexer	16-SSOP	.55	.44	.33
SN74AHCT138DBR	296-4664-2-ND	3-8 Line Decoder/Demultiplexer	16-SSOP		308.00/2,000	
SN74AHCT138DGVR	296-4665-1-ND	3-8 Line Decoder/Demultiplexer	16-TVSOP	.55	.44	.33
SN74AHCT138DGVR	296-4665-2-ND	3-8 Line Decoder/Demultiplexer	16-TVSOP		308.00/2,000	
SN74AHCT138DR	296-14701-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.55	.44	.33
SN74AHCT138DR	296-14701-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC		372.50/2,500	
SN74AHCT138N	296-4666-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.55	.44	.33
SN74AHCT138PWR	296-1109-1-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP	.55	.44	.33
SN74AHCT138PWR	296-1109-2-ND	3-8 Line Decoder/Demultiplexer	16-TSSOP		308.00/2,000	
SN74AHCT138RGYR	296-13911-1-ND	3-8 Line Decoder/Demultiplexer	16-QFN	.52	.39	.30
SN74AHCT138RGYR	296-13911-2-ND	3-8 Line Decoder/Demultiplexer	16-QFN		173.00/1,000	
SN74AHCT139D	296-4667-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.55	.44	.33
SN74AHCT139DBR	296-4668-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	.55	.44	.33
SN74AHCT139DBR	296-4668-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP		308.00/2,000	
SN74AHCT139DGVR	296-4669-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP	.55	.44	.33
SN74AHCT139DGVR	296-4669-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TVSOP		308.00/2,000	
SN74AHCT139DR	296-14702-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.55	.44	.33
SN74AHCT139DR	296-14702-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC		372.50/2,500	
SN74AHCT139N	296-4670-5-ND	Dual 2-4 Decoder/Demultiplexer	16-Dip	.55	.44	.33
SN74AHCT139PWR	296-4671-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	.55	.44	.33
SN74AHCT139PWR	296-4671-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP		308.00/2,000	
SN74AHCT157D	296-4675-5-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC	.56	.42	.32
SN74AHCT157DBR	296-4676-1-ND	Quad 2-to-1 Data Selector/Mux	16-SSOP	.48	.36	.27
SN74AHCT157DBR	296-4676-2-ND	Quad 2-to-1 Data Selector/Mux	16-SSOP		320.00/2,000	
SN74AHCT157DGVR	296-4677-1-ND	Quad 2-to-1 Data Selector/Mux	16-TVSOP	.48	.36	.27
SN74AHCT157DGVR	296-4677-2-ND	Quad 2-to-1 Data Selector/Mux	16-TVSOP		320.00/2,000	
SN74AHCT157DR	296-14703-1-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC	.48	.36	.27
SN74AHCT157DR	296-14703-2-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC		390.00/2,500	
SN74AHCT157PWR	296-4678-1-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	.53	.40	.30
SN74AHCT157PWR	296-4678-2-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP		352.00/2,000	
SN74AHCT158D	296-4679-5-ND	Quad 2-to-1 Data Selector/Mux	16-SOIC	.55	.44	.33
SN74AHCT158PWR	296-4680-1-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP	.55	.44	.33
SN74AHCT158PWR	296-4680-2-ND	Quad 2-to-1 Data Selector/Mux	16-TSSOP		308.00/2,000	
SN74AHCT174D	296-1475-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.72	.54	.41
SN74AHCT174DBR	296-4702-1-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	.72	.54	.41
SN74AHCT174DBR	296-4702-2-ND	Hex D-Type Flip-Flop with Clear	16-SSOP		478.00/2,000	
SN74AHCT240DBR	296-4716-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHCT240DBR	296-4716-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		400.00/2,000	
SN74AHCT240DWR	296-4717-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74AHCT240DWR	296-4717-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		400.00/2,000	
SN74AHCT240N	296-4718-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.66	.50	.38
SN74AHCT240NSR	296-13444-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.60	.45	.34
SN74AHCT240NSR	296-13444-2-ND	Tri-State Octal Buffer/Driver	20-SOP		400.00/2,000	
SN74AHCT240PWR	296-4719-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74AHCT240PWR	296-4719-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		400.00/2,000	
SN74AHCT244DBR	296-4720-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHCT244DBR	296-4720-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		400.00/2,000	
SN74AHCT244DGVR	296-4721-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.60	.45	.34
SN74AHCT244DGVR	296-4721-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		400.00/2,000	
SN74AHCT244DW	296-4722-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74AHCT244DWR	296-4722-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74AHCT244DWR	296-4722-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		400.00/2,000	
SN74AHCT244N	296-4723-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.66	.50	.38
SN74AHCT244NSR	296-13143-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.60	.45	.34
SN74AHCT244NSR	296-13143-2-ND	Tri-State Octal Buffer/Driver	20-SOP		400.00/2,000	
SN74AHCT244PWR	296-1116-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74AHCT244PWR	296-1116-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		400.00/2,000	
SN74AHCT244QPWR	296-13865-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.88	.66	.50
SN74AHCT244QPWR	296-13865-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		586.00/2,000	
SN74AHCT245DBR	296-4724-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.60	.45	.34
SN74AHCT245DBR	296-4724-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		400.00/2,000	
SN74AHCT245DGVR	296-4725-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.60	.45	.34
SN74AHCT245DGVR	296-4725-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP		400.00/2,000	
SN74AHCT245DW	296-1117-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74AHCT245DWR	296-1117-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74AHCT245DWR	296-1117-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		400.00/2,000	
SN74AHCT245N	296-1476-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.60	.45	.34
SN74AHCT245PWR	296-1118-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.60	.45	.34
SN74AHCT245PWR	296-1118-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP		400.00/2,000	
SN74AHCT245RGYR	296-18536-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.60	.45	.34
SN74AHCT245RGYR	296-18536-2-ND	Tri-State Octal Bus Transceiver	20-QFN		200.00/1,000	
SN74AHCT273DBR	296-4726-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.60	.45	.34
SN74AHCT273DBR	296-4726-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP		400.00/2,000	
SN74AHCT273DW	296-13489-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.60	.45	.34
SN74AHCT273PWR	296-4727-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.60	.45	.34
SN74AHCT273PWR	296-4727-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP		400.00/2,000	
SN74AHCT367DBR	296-4733-1-ND	Tri-State Hex Buffer/Driver	16-SSOP	1.05	.88	.70
SN74AHCT367DBR	296-4733-2-ND	Tri-State Hex Buffer/Driver	16-SSOP		932.00/2,000	
SN74AHCT367DGVR	296-4734-1-ND	Tri-State Hex Buffer/Driver	16-TVSOP	1.05	.88	.70
SN74AHCT367DGVR	296-4734-2-ND	Tri-State Hex Buffer/Driver	16-TVSOP		932.00/2,000	
SN74AHCT367DR	296-4735-1-ND	Tri-State Hex Buffer/Driver	16-SOIC	1.05	.88	.70
SN74AHCT367DR	296-4735-2-ND	Tri-State Hex Buffer/Driver	16-SOIC		1137.50/2,500	

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCT367PWR	296-4736-1-ND	Tri-State Hex Buffer/Driver	16-TSSOP	1.05	.88	.70
SN74AHCT367PWR	296-4736-2-ND	Tri-State Hex Buffer/Driver	16-TSSOP	932.00/2,000		
SN74AHCT373DBR	296-4737-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.60	.45	.34
SN74AHCT373DBR	296-4737-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	400.00/2,000		
SN74AHCT373DW	296-4739-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
SN74AHCT373DWR	296-4739-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
SN74AHCT373DWR	296-4739-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	400.00/2,000		
SN74AHCT373N	296-4740-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.66	.50	.38
SN74AHCT373PWR	296-4741-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.60	.45	.34
SN74AHCT373PWR	296-4741-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	400.00/2,000		
SN74AHCT374DBR	296-4742-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SSOP	.60	.45	.34
SN74AHCT374DBR	296-4742-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SSOP	400.00/2,000		
SN74AHCT374DGVR	296-4743-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TVSOP	.80	.60	.45
SN74AHCT374DGVR	296-4743-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TVSOP	532.00/2,000		
SN74AHCT374DWR	296-4744-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SOIC	.60	.45	.34
SN74AHCT374DWR	296-4744-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-SOIC	400.00/2,000		
SN74AHCT374N	296-4745-5-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-Dip	.66	.50	.38
SN74AHCT374PWR	296-4746-1-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TSSOP	.60	.45	.34
SN74AHCT374PWR	296-4746-2-ND	Tri-State Octal D-Type Edge-Triggered Flip-Flop	20-TSSOP	400.00/2,000		
SN74AHCT540DBR	296-4747-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHCT540DBR	296-4747-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74AHCT540DGVR	296-4748-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.60	.45	.34
SN74AHCT540DGVR	296-4748-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	400.00/2,000		
SN74AHCT540DW	296-4749-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74AHCT540DWR	296-4749-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74AHCT540DWR	296-4749-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	400.00/2,000		
SN74AHCT540N	296-4750-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.66	.50	.38
SN74AHCT540PWR	296-4751-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74AHCT540PWR	296-4751-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	400.00/2,000		
SN74AHCT541DBR	296-4752-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74AHCT541DBR	296-4752-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74AHCT541DWR	296-4754-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74AHCT541DWR	296-4754-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	400.00/2,000		
SN74AHCT541IDWREP	296-19503-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	1.38	1.15	.92
SN74AHCT541IDWREP	296-19503-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	1224.00/2,000		
SN74AHCT541N	296-4755-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.66	.50	.38
SN74AHCT541NSR	296-13145-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.60	.45	.34
SN74AHCT541NSR	296-13145-2-ND	Tri-State Octal Buffer/Driver	20-SOP	400.00/2,000		
SN74AHCT541PWR	296-1120-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74AHCT541PWR	296-1120-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	400.00/2,000		
SN74AHCT573DBR	296-4756-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.60	.45	.34
SN74AHCT573DBR	296-4756-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	400.00/2,000		
SN74AHCT573DGVR	296-4757-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.60	.45	.34
SN74AHCT573DGVR	296-4757-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	400.00/2,000		
SN74AHCT573DW	296-4758-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.60	.45	.34
SN74AHCT573DWR	296-4758-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.60	.45	.34
SN74AHCT573DWR	296-4758-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	400.00/2,000		
SN74AHCT573N	296-4759-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.66	.50	.38
SN74AHCT573PWR	296-1121-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.60	.45	.34
SN74AHCT573PWR	296-1121-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	400.00/2,000		
SN74AHCT574DBR	296-4760-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74AHCT574DBR	296-4760-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	400.00/2,000		
SN74AHCT574DGVR	296-4761-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.60	.45	.34
SN74AHCT574DGVR	296-4761-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	400.00/2,000		
SN74AHCT574DWR	296-4762-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74AHCT574DWR	296-4762-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	400.00/2,000		
SN74AHCT574N	296-4763-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
SN74AHCT574PWR	296-4764-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	.34
SN74AHCT574PWR	296-4764-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	400.00/2,000		
SN74AHCT594D	296-4765-5-ND	8-Bit Shift Register w/Output Register	16-SOIC	.96	.72	.54
SN74AHCT594DBR	296-4766-1-ND	8-Bit Shift Register w/Output Register	16-SSOP	.96	.72	.54
SN74AHCT594DBR	296-4766-2-ND	8-Bit Shift Register w/Output Register	16-SSOP	638.00/2,000		
SN74AHCT594PWR	296-4767-1-ND	8-Bit Shift Register w/Output Register	16-TSSOP	.96	.72	.54
SN74AHCT594PWR	296-4767-2-ND	8-Bit Shift Register w/Output Register	16-TSSOP	638.00/2,000		
SN74AHCT595D	296-14308-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.96	.72	.54
SN74AHCT595DBR	296-13490-1-ND	Tri-State 8-Bit Shift Register	16-SSOP	.96	.72	.54
SN74AHCT595DBR	296-13490-2-ND	Tri-State 8-Bit Shift Register	16-SSOP	638.00/2,000		
SN74AHCT595PWR	296-9758-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.96	.72	.54
SN74AHCT595PWR	296-9758-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	638.00/2,000		
SN74AHCT16240DGGR	296-4681-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74AHCT16240DGGR	296-4681-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1560.00/2,000		
SN74AHCT16240DGVR	296-4682-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74AHCT16240DGVR	296-4682-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74AHCT16240DL	296-4683-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74AHCT16244DGGR	296-4684-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74AHCT16244DGGR	296-4684-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1560.00/2,000		
SN74AHCT16244DGVR	296-4685-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74AHCT16244DGVR	296-4685-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74AHCT16244DL	296-4686-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74AHCT16245DGGR	296-4687-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.50	1.20	.90
SN74AHCT16245DGGR	296-4687-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1560.00/2,000		
SN74AHCT16245DGVR	296-4688-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.50	1.20	.90
SN74AHCT16245DGVR	296-4688-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1560.00/2,000		
SN74AHCT16245DL	296-4689-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.50	1.20	.90
SN74AHCT16373DGGR	296-4690-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.50	1.20	.90
SN74AHCT16373DGGR	296-4690-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1560.00/2,000		
SN74AHCT16373DGVR	296-4691-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1.50	1.20	.90
SN74AHCT16373DGVR	296-4691-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1560.00/2,000		
SN74AHCT16373DL	296-4692-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.50	1.20	.90
SN74AHCT16374DGGR	296-4693-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.50	1.20	.90
SN74AHCT16374DGGR	296-4693-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1560.00/2,000		
SN74AHCT16374DGVR	296-4694-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1.50	1.20	.90
SN74AHCT16374DGVR	296-4694-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1560.00/2,000		
SN74AHCT16374DLR	296-4695-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.50	1.20	.90
SN74AHCT16374DLR	296-4695-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	780.00/1,000		
SN74AHCT16540DGGR	296-4696-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.60	1.28	.96
SN74AHCT16540DGGR	296-4696-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1664.00/2,000		
SN74AHCT16540DGVR	296-4697-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.60	1.28	.96
SN74AHCT16540DGVR	296-4697-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1664.00/2,000		
SN74AHCT16540DL	296-4698-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.60	1.28	.96
SN74AHCT16541DGGR	296-4699-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.60	1.28	.96
SN74AHCT16541DGGR	296-4699-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1664.00/2,000		
SN74AHCT16541DGVR	296-4700-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.60	1.28	.96
SN74AHCT16541DGVR	296-4700-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1664.00/2,000		
SN74AHCT16541DL	296-4701-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.60	1.28	.96

AHCU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCU04D	296-9759-5-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74AHCU04DBR	296-9760-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74AHCU04DBR	296-9760-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74AHCU04DGVR	296-9761-1-ND	Hex Inverter	14-TVSOP	.50	.40	.30
SN74AHCU04DGVR	296-9761-2-ND	Hex Inverter	14-TVSOP	280.00/2,000		
SN74AHCU04N	296-9762-5-ND	Hex Inverter	14-Dip	.46	.37	.26
SN74AHCU04PWR	296-9763-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74AHCU04PWR	296-9763-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74AHCU04RGYR	296-13916-1-ND	Hex Inverter	14-QFN	.48	.36	.27
SN74AHCU04RGYR	296-13916-2-ND	Hex Inverter	14-QFN	160.00/1,000		

Microgate Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHC1G00DBVR	296-1087-1-ND	Single 2-Input NAND Gate	SOT-23-5	.39	.32	.22
SN74AHC1G00DBVR	296-1087-2-ND	Single 2-Input NAND Gate	SOT-23-5	306.00/3,000		
SN74AHC1G00DCKR	296-8741-1-ND	Single 2-Input NAND Gate	SC70-5	.39	.32	.22
SN74AHC1G00DCKR	296-8741-2-ND	Single 2-Input NAND Gate	SC70-5	306.00/3,000		
SN74AHC1G02DBVR	296-1088-1-ND	Single 2-Input NOR Gate	SOT-23-5	.39	.32	.22
SN74AHC1G02DBVR	296-1088-2-ND	Single 2-Input NOR Gate	SOT-23-5	306.00/3,000		
SN74AHC1G02DCKR	296-8742-1-ND	Single 2-Input NOR Gate	SC70-5	.39	.32	.22
SN74AHC1G02DCKR	296-8742-2-ND	Single 2-Input NOR Gate	SC70-5	306.00/3,000		
SN74AHC1G04DBVR	296-1089-1-ND	Single Inverter Gate	SOT-23-5	.39	.32	.22
SN74AHC1G04DBVR	296-1089-2-ND	Single Inverter Gate	SOT-23-5	306.00/3,000		
SN74AHC1G04DCKR	296-1090-1-ND	Single Inverter Gate	SC70-5	.39	.32	.22
SN74AHC1G04DCKR	296-1090-2-ND	Single Inverter Gate	SC70-5	306.00/3,000		
SN74AHC1G04DRLR	296-19375-1-ND	Single Inverter Gate ***NEW!***	5-SOP	.42	.35	.24
SN74AHC1G04DRLR	296-19375-2-ND	Single Inverter Gate ***NEW!***	5-SOP	444.00/4,000		
SN74AHC1G04QDCKRQ1	296-17248-1-ND	Single Inverter Gate	SC70-5	.46	.37	.26
SN74AHC1G04QDCKRQ1	296-17248-2-ND	Single Inverter Gate	SC70-5	357.00/3,000		
SN74AHC1G08DBVR	296-1091-1-ND	Single 2-Input AND Gate	SOT-23-5	.39	.32	.22
SN74AHC1G08DBVR	296-1091-2-ND	Single 2-Input AND Gate	SOT-23-5	306.00/3,000		
SN74AHC1G08DCKR	296-8743-1-ND	Single 2-Input AND Gate	5-SOP	.39	.32	.22
SN74AHC1G08DCKR	296-8743-2-ND	Single 2-Input AND Gate	5-SOP	306.00/3,000		
SN74AHC1G08DRLR	296-19376-1-ND	Single 2-Input AND Gate ***NEW!***	5-SOP	.42	.35	.24
SN74AHC1G08DRLR	296-19376-2-ND	Single 2-Input AND Gate ***NEW!***	5-SOP	444.00/4,000		
SN74AHC1G14DBVR	296-1092-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.39	.32	.22
SN74AHC1G14DBVR	296-1092-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5	306.00/3,000		
SN74AHC1G14DCKR	296-8748-1-ND	Single Schmitt-Trigger Inverter	SC70-5	.39	.32	.22
SN74AHC1G14DCKR	296-8748-2-ND	Single Schmitt-Trigger Inverter	SC70-5	306.00/3,000		
SN74AHC1G32DBVR	296-1093-1-ND	Single 2-Input OR Gate	SOT-23-5	.39	.32	.22
SN74AHC1G32DBVR	296-1093-2-ND	Single 2-Input OR Gate	SOT-23-5	306.00/3,000		
SN74AHC1G32DCKR	296-8749-1-ND	Single 2-Input OR Gate	SC70-5	.39	.32	.22
SN74AHC1G32DCKR	296-8749-2-ND	Single 2-Input OR Gate	SC70-5	306.00/3,000		
SN74AHC1G32DRLR	296-19378-1-ND	Single 2-Input OR Gate ***NEW!***	5-SOP	.42	.35	.24
SN74AHC1G32DRLR	296-19378-2-ND	Single 2-Input OR Gate ***NEW!***	5-SOP	444.00/4,000		
SN74AHC1G32TDBVRQ1	296-17421-1-ND	Single 2-Input OR Gate	SOT-23-5	.46	.37	.26
SN74AHC1G32TDBVRQ1	296-17421-2-ND	Single 2-Input OR Gate	SOT-23-5	357.00/3,000		
SN74AHC1G86DBVR	296-1094-1-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.39	.32	.22
SN74AHC1G86DBVR	296-1094-2-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	306.00/3,000		
SN74AHC1G86DCKR	296-8750-1-ND	Single 2-Input Exclusive OR Gate	SC70-5	.39	.32	.22
SN74AHC1G86DCKR	296-8750-2-ND	Single 2-Input Exclusive OR Gate	SC70-5	306.00/3,000		
SN74AHC1G125DBVR	296-8744-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.39	.32	.22
SN74AHC1G125DBVR	296-8744-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	306.00/3,000		
SN74AHC1G125DCKR	296-8745-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.39	.32	.22
SN74AHC1G125DCKR	296-8745-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	306.00/3,000		
SN74AHC1G126DBVR	296-8746-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.39	.32	.22
SN74AHC1G126DBVR	296-8746-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	306.00/3,000		
SN74AHC1G126DCKR	296-8747-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.39	.32	.22
SN74AHC1G126DCKR	296-8747-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	306.00/3,000		
SN74AHC1G126DRLR	296-19377-1-ND	Tri-State Single Bus Buffer Gate ***NEW!***	5-SOP	.46	.37	.26
SN74AHC1G126DRLR	296-19377-2-ND	Tri-State Single Bus Buffer Gate ***NEW!***	5-SOP	476.00/4,000		
SN74AHC1GU04DBVR	296-1095-1-ND	Single Inverter Gate	SOT-23-5	.39	.32	.22
SN74AHC1GU04DBVR	296-1095-2-ND	Single Inverter Gate	SOT-23-5	306.00/3,000		
SN74AHC1GU04DCKR	296-8751-1-ND	Single Inverter Gate	SC70-5	.39	.32	.22
SN74AHC1GU04DCKR	296-8751-2-ND	Single Inverter Gate	SC70-5	306.00/3,000		
SN74AHCT1G00DBVR	296-1111-1-ND	Single 2-Input NAND Gate	SOT-23-5	.39	.32	.22
SN74AHCT1G00DBVR	296-1111-2-ND	Single 2-Input NAND Gate	SOT-23-5	306.00/3,000		
SN74AHCT1G00DCKR	296-4703-1-ND	Single 2-Input NAND Gate	5-SOT	.39	.32	.22
SN74AHCT1G00DCKR	296-4703-2-ND	Single 2-Input NAND Gate	5-SOT	306.00/3,000		
SN74AHCT1G02DBVR	296-4704-1-ND	Single 2-Input NOR Gate	SOT-23-5	.39	.32	.22
SN74AHCT1G02DBVR	296-4704-2-ND	Single 2-Input NOR Gate	SOT-23-5	306.00/3,000		
SN74AHCT1G02DCKR	296-4705-1-ND	Single 2-Input NOR Gate	5-SOT	.39	.32	.22
SN74AHCT1G02DCKR	296-4705-2-ND	Single 2-Input NOR Gate	5-SOT	306.00/3,000		
SN74AHCT1G04DBVR	296-1112-1-ND	Single Inverter Gate	SOT-23-5	.39	.32	.22
SN74AHCT1G04DBVR	296-1112-2-ND	Single Inverter Gate	SOT-23-5	306.00/3,000		
SN74AHCT1G04DCKR	296-4706-1-ND	Single Inverter Gate	5-SOT	.39	.32	.22
SN74AHCT1G04DCKR	296-4706-2-ND	Single Inverter Gate	5-SOT	306.00/3,000		
SN74AHCT1G08DBVR	296-1113-1-ND	Single 2-Input AND Gate	SOT-23-5	.39	.32	.22
SN74AHCT1G08DBVR	296-1113-2-ND	Single 2-Input AND Gate	SOT-23-5	306.00/3,000		
SN74AHCT1G08DCKR	296-4707-1-ND	Single 2-Input AND Gate	5-SOT	.39	.32	.22
SN74AHCT1G08DCKR	296-4707-2-ND	Single 2-Input AND Gate	5-SOT	306.00/3,000		
SN74AHCT1G08DRLR	296-19593-1-ND	Single 2-Input AND Gate ***NEW!***	SOT-553	.42	.35	.24
SN74AHCT1G08DRLR	296-19593-2-ND	Single 2-Input AND Gate ***NEW!***	SOT-553	444.00/4,000		
SN74AHCT1G14DBVR	296-1114-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.39	.32	.22
SN74AHCT1G14DBVR	296-1114-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5	306.00/3,000		
SN74AHCT1G14DCKR	296-4712-1-ND	Single Schmitt-Trigger Inverter Gate	5-SOT	.39	.32	.22
SN74AHCT1G14DCKR	296-4712-2-ND	Single Schmitt-Trigger Inverter Gate	5-SOT	306.00/3,000		
SN74AHCT1G32DBVR	296-1115-1-ND	Single 2-Input OR Gate	SOT-23-5	.39	.32	.22
SN74AHCT1G32DBVR	296-1115-2-ND	Single 2-Input OR Gate	SOT-23-5	306.00/3,000		
SN74AHCT1G32DCKR	296-4713-1-ND	Single 2-Input OR Gate	5-SOT	.39	.32	.22
SN74AHCT1G32DCKR	296-4713-2-ND	Single 2-Input OR Gate	5-SOT	306.00/3,000		
SN74AHCT1G86DBVR	296-4714-1-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.39	.32	.22
SN74AHCT1G86DBVR	296-4714-2-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	306.00/3,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AHCT1G86DCKR	296-4715-1-ND	Single 2-Input Exclusive OR Gate	5-SOT	.39	.32	.22
SN74AHCT1G86DCKR	296-4715-2-ND	Single 2-Input Exclusive OR Gate	5-SOT	306.00/3,000		
SN74AHCT1G125DBVR	296-4708-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.39	.32	.22
SN74AHCT1G125DBVR	296-4708-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	306.00/3,000		
SN74AHCT1G125DCKR	296-4709-1-ND	Tri-State Single Bus Buffer Gate	5-SOT	.39	.32	.22
SN74AHCT1G125DCKR	296-4709-2-ND	Tri-State Single Bus Buffer Gate	5-SOT	306.00/3,000		
SN74AHCT1G125DRLR	296-19379-1-ND	Tri-State Single Bus Buffer Gate ***NEW!***	5-SOP	.46	.37	.26
SN74AHCT1G125DRLR	296-19379-2-ND	Tri-State Single Bus Buffer Gate ***NEW!***	5-SOP	476.00/4,000		
SN74AHCT1G126DBVR	296-4710-1-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	.39	.32	.22
SN74AHCT1G126DBVR	296-4710-2-ND	Tri-State Single Bus Buffer Gate	SOT-23-5	306.00/3,000		
SN74AHCT1G126DCKR	296-4711-1-ND	Tri-State Single Bus Buffer Gate	5-SOT	.39	.32	.22
SN74AHCT1G126DCKR	296-4711-2-ND	Tri-State Single Bus Buffer Gate	5-SOT	306.00/3,000		

ALB Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALB16244DGGR	296-9764-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	5.06	4.05	3.15
SN74ALB16244DGGR	296-9764-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	5738.00/2,000		
SN74ALB16244DGVR	296-9765-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	5.06	4.05	3.15
SN74ALB16244DGVR	296-9765-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	5738.00/2,000		
SN74ALB16244DL	296-9766-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	5.06	4.05	3.15
SN74ALB16244DLR	296-9766-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	5.06	4.05	3.15
SN74ALB16244DLR	296-9766-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2869.00/1,000		
SN74ALB16245DGGR	296-9767-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	5.06	4.05	3.15
SN74ALB16245DGGR	296-9767-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	5738.00/2,000		
SN74ALB16245DGVR	296-9768-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	5.06	4.05	3.15
SN74ALB16245DGVR	296-9768-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	5738.00/2,000		
SN74ALB16245DLR	296-9769-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	5.06	4.05	3.15
SN74ALB16245DLR	296-9769-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2869.00/1,000		

ALS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65ALS176D	296-9698-5-ND	Differential Bus Transceiver	8-SOP	1.75	1.40	1.05
SN65ALS176DR	296-14637-1-ND	Differential Bus Transceiver	8-SOIC	1.75	1.40	1.05
SN65ALS176DR	296-14637-2-ND	Differential Bus Transceiver	8-SOIC	2240.00/2,500		
SN65ALS180DR	296-14638-1-ND	Differential Driver and Receiver Pair	14-SOIC	2.38	1.90	1.43
SN65ALS180DR	296-14638-2-ND	Differential Driver and Receiver Pair	14-SOIC	3040.00/2,500		
SN65ALS544NSR	296-15214-1-ND	Differential Interface LD Driver	20-SOP	3.60	2.88	2.24
SN65ALS544NSR	296-15214-2-ND	Differential Interface LD Driver	20-SOP	4080.00/2,000		
SN65ALS1176DR	296-9697-1-ND	Differential Bus Transceiver	8-SOIC	3.94	3.15	2.45
SN65ALS1176DR	296-9697-2-ND	Differential Bus Transceiver	8-SOIC	5512.50/2,500		
SN74ALS00AD	296-1477-5-ND	Quad 2-Input NAND Gate	14-SOIC	.60	.45	.34
SN74ALS00ADBR	296-5000-1-ND	Quad 2-Input NAND Gate	14-SSOP	.66	.50	.38
SN74ALS00ADBR	296-5000-2-ND	Quad 2-Input NAND Gate	14-SSOP	438.00/2,000		
SN74ALS00ADR	296-1477-1-ND	Quad 2-Input NAND Gate	14-SOIC	.60	.45	.34
SN74ALS00ADR	296-1477-2-ND	Quad 2-Input NAND Gate	14-SOIC	487.50/2,500		
SN74ALS00AN	296-1478-5-ND	Quad 2-Input NAND Gate	14-Dip	.66	.50	.38
SN74ALS00ANSR	296-5001-2-ND	Quad 2-Input NAND Gate	14-SOP	400.00/2,000		
SN74ALS02ADR	296-14705-1-ND	Quad 2-Input NOR Gate	14-SOIC	.60	.45	.34
SN74ALS02ADR	296-14705-2-ND	Quad 2-Input NOR Gate	14-SOIC	487.50/2,500		
SN74ALS02AN	296-1479-5-ND	Quad 2-Input NOR Gate	14-Dip	.62	.47	.35
SN74ALS04BD	296-1122-5-ND	Hex Inverter	14-SOIC	.60	.45	.34
SN74ALS04BDBR	296-5004-1-ND	Hex Inverter	14-SSOP	.60	.45	.34
SN74ALS04BDBR	296-5004-2-ND	Hex Inverter	14-SSOP	400.00/2,000		
SN74ALS04BDR	296-1122-1-ND	Hex Inverter	14-SOIC	.60	.45	.34
SN74ALS04BDR	296-1122-2-ND	Hex Inverter	14-SOIC	487.50/2,500		
SN74ALS04BN	296-1481-5-ND	Hex Inverter	14-Dip	.62	.47	.35
SN74ALS05ADR	296-14707-1-ND	Hex Inverter	14-SOIC	.60	.45	.34
SN74ALS05ADR	296-14707-2-ND	Hex Inverter	14-SOIC	487.50/2,500		
SN74ALS05AN	296-1482-5-ND	Hex Inverter with OC	14-Dip	.62	.47	.35
SN74ALS08D	296-1123-5-ND	Quad 2-Input AND Gate	14-SOIC	.60	.45	.34
SN74ALS08DR	296-1123-1-ND	Quad 2-Input AND Gate	14-SOIC	.60	.45	.34
SN74ALS08DR	296-1123-2-ND	Quad 2-Input AND Gate	14-SOIC	487.50/2,500		
SN74ALS08N	296-1484-5-ND	Quad 2-Input AND Gate	14-Dip	.62	.47	.35
SN74ALS10ADR	296-14712-1-ND	Triple 3-Input NAND Gate	14-SOIC	.60	.45	.34
SN74ALS10ADR	296-14712-2-ND	Triple 3-Input NAND Gate	14-SOIC	487.50/2,500		
SN74ALS11ADR	296-14713-1-ND	Triple 3-Input AND Gate	14-SOIC	.80	.60	.45
SN74ALS11ADR	296-14713-2-ND	Triple 3-Input AND Gate	14-SOIC	650.00/2,500		
SN74ALS21ADR	296-5045-1-ND	Dual 4-Input AND Gate	14-SOIC	.80	.60	.45
SN74ALS21ADR	296-5045-2-ND	Dual 4-Input AND Gate	14-SOIC	650.00/2,500		
SN74ALS27ADR	296-14731-1-ND	Triple 3-Input NOR Gate	14-SOIC	.88	.66	.50
SN74ALS27ADR	296-14731-2-ND	Triple 3-Input NOR Gate	14-SOIC	747.50/2,500		
SN74ALS30AN	296-1494-5-ND	8-Input NAND Gate	14-Dip	.58	.44	.33
SN74ALS32DR	296-1127-1-ND	Quad 2-Input OR Gate	14-SOIC	.60	.45	.34
SN74ALS32DR	296-1127-2-ND	Quad 2-Input OR Gate	14-SOIC	487.50/2,500		
SN74ALS32N	296-1495-5-ND	Quad 2-Input OR Gate	14-Dip	.60	.45	.34
SN74ALS38BDR	296-14738-1-ND	Quad 2-Input NAND Buffer	14-SOIC	.60	.45	.34
SN74ALS38BDR	296-14738-2-ND	Quad 2-Input NAND Buffer	14-SOIC	487.50/2,500		
SN74ALS74AD	296-1130-5-ND	Dual D-Type Flip-Flop	14-SOIC	.72	.54	.41
SN74ALS74ADR	296-1130-1-ND	Dual D-Type Flip-Flop	14-SOIC	.72	.54	.41
SN74ALS74ADR	296-1130-2-ND	Dual D-Type Flip-Flop	14-SOIC	585.00/2,500		
SN74ALS74AN	296-1506-5-ND	Dual D-Type Flip-Flop	14-Dip	.72	.54	.41
SN74ALS86DR	296-14751-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.55	.44	.33
SN74ALS86DR	296-14751-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	367.50/2,500		
SN74ALS109AN	296-14711-5-ND	Dual J-K Flip-Flop	16-Dip	.92	.69	.52
SN74ALS138ADR	296-14714-1-ND	3-8 Line Decoder/Demux	16-SOIC	.80	.60	.45
SN74ALS138ADR	296-14714-2-ND	3-8 Line Decoder/Demux	16-SOIC	650.00/2,500		
SN74ALS138AN	296-1485-5-ND	3-8 Line Decoder/Demux	16-Dip	.80	.60	.45
SN74ALS139DR	296-14715-1-ND	Dual 2-4 Decoder/Demux	16-SOIC	.88	.66	.50
SN74ALS139DR	296-14715-2-ND	Dual 2-4 Decoder/Demux	16-SOIC	715.00/2,500		
SN74ALS139N	296-1486-5-ND	Dual 2-4 Decoder/Demux	16-Dip	.88	.66	.50
SN74ALS151DR	296-14717-1-ND	1-of-8 Data Selector/Mux	16-SOIC	.81	.68	.54
SN74ALS151DR	296-14717-2-ND	1-of-8 Data Selector/Mux	16-SOIC	877.50/2,500		
SN74ALS157ADR	296-14718-1-ND	Quad 1-of-2 Data Selector/Mux	16-SOIC	.75	.63	.50
SN74ALS157ADR	296-14718-2-ND	Quad 1-of-2 Data Selector/Mux	16-SOIC	812.50/2,500		
SN74ALS157AN	296-14719-5-ND	Quad 1-of-2 Data Selector/Mux	16-Dip	.75	.63	.50
SN74ALS158NSR	296-13147-1-ND	Quad 1-of-2 Data Selector/Mux	16-SOP	2.13	1.70	1.28
SN74ALS158NSR	296-13147-2-ND	Quad 1-of-2 Data Selector/Mux	16-SOP	2340.00/2,000		
SN74ALS161BN	296-1487-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.96	.72	.54
SN74ALS163BN	296-1488-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.96	.72	.54
SN74ALS166DBR	296-5027-1-ND	8-Bit Parallel-Load Shift Register	16-SSOP	3.04	2.43	1.89
SN74ALS166DBR	296-5027-2-ND	8-Bit Parallel-Load Shift Register	16-SSOP	3622.00/2,000		
SN74ALS169BNSR	296-13148-1-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	1.05	.88	.70
SN74ALS169BNSR	296-13148-2-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	984.00/2,000		
SN74ALS175DR	296-14721-1-ND	Quad D-Type Flip-Flop	16-SOIC	.88	.66	.50
SN74ALS175DR	296-14721-2-ND	Quad D-Type Flip-Flop	16-SOIC	715.00/2,500		
SN74ALS193AN	296-14722-5-ND	4-Bit Sync. Binary Counter	16-Dip	1.53	1.22	.92
SN74ALS240ADWR	296-14724-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.75	.63	.50
SN74ALS240ADWR	296-14724-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	666.00/2,000		
SN74ALS240AN	296-14725-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.75	.63	.50
SN74ALS243ANSR	296-13149-1-ND	Tri-State Quad Bus Transceiver	14-SOP	3.83	3.06	2.38
SN74ALS243ANSR	296-13149-2-ND	Tri-State Quad Bus Transceiver	14-SOP	4336.00/2,000		
SN74ALS244CDW	296-1124-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.92	.69	.52
SN74ALS244CDWR	296-1124-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.92	.69	.52
SN74ALS244CDWR	296-1124-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	612.00/2,000		
SN74ALS244CN	296-1490-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.92	.69	.52
SN74ALS245ADW	296-1125-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.96	.72	.54
SN74ALS245ADWR	296-1125-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.96	.72	.54
SN74ALS245ADWR	296-1125-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	638.00/2,000		
SN74ALS245AN	296-1492-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.96	.72	.54
SN74ALS257ADR	296-14728-1-ND	Tri-State Quad 2-1 Line Mux	16-SOIC	.78	.65	.52
SN74ALS257ADR	296-14728-2-ND	Tri-State Quad 2-1 Line Mux	16-SOIC	845.00/2,500		
SN74ALS259DR	296-14729-1-ND	8-Bit Addressable Latch	16-SOIC	1.93	1.54	1.16
SN74ALS259DR	296-14729-2-ND	8-Bit Addressable Latch	16-SOIC	2687.50/2,500		
SN74ALS273N	296-1493-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.75	.63	.50
SN74ALS299NSR	296-13150-1-ND	Tri-State 8-Bit, Universal Shift/Storage Register	20-SOP	3.60	2.88	2.24
SN74ALS299NSR	296-13150-2-ND	Tri-State 8-Bit, Universal Shift/Storage Register	20-SOP	4080.00/2,000		
SN74ALS373ADWR	296-14735-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.84	.70	.56
SN74ALS373ADWR	296-14735-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	744.00/2,000		
SN74ALS373AN	296-1496-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.84	.70	.56
SN74ALS374ADWR	296-1128-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.92	.69	.52
SN74ALS374ADWR	296-1128-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	612.00/2,000		
SN74ALS374AN	296-1498-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.92	.69	.52
SN74ALS520N	296-14739-5-ND	8-Bit Identity Comparator	20-Dip	1.41	1.18	.94
SN74ALS521NSR	296-13151-1-ND	8-Bit Identity Comparator	20-SOP	1.38	1.10	.83
SN74ALS521NSR	296-13151-2-ND	8-Bit Identity Comparator	20-SOP	1508.00/2,000		
SN74ALS534ADWR	296-14740-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	2.03	1.62	1.22
SN74ALS534ADWR	296-14740-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	2106.00/2,000		
SN74ALS540DWR	296-14741-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.70	1.36	1.02
SN74ALS540DWR	296-14741-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	1846.00/2,000		
SN74ALS540-1NSR	296-13152-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	5.27	4.22	3.28
SN74ALS540-1NSR	296-13152-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	6248.00/2,000		
SN74ALS541DW	296-1499-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.11	.93	.74
SN74ALS541DWR	296-14742-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.11	.93	.74
SN74ALS541DWR	296-14742-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	984.00/2,000		
SN74ALS541N	296-1500-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	1.11	.93	.74
SN74ALS541NSR	296-13153-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	1.11	.93	.74
SN74ALS541NSR	296-13153-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	984.00/2,000		
SN74ALS573CDW	296-1129-5-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.92	.69	.52
SN74ALS573CDWR	296-1129-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.92	.69	.52
SN74ALS573CDWR	296-1129-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	612.00/2,000		
SN74ALS573CN	296-1502-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.92	.69	.52
SN74ALS574BDW	296-1503-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.92	.69	.52
SN74ALS574BDWR	296-14745-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.92	.69	.52
SN74ALS574BDWR	296-14745-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	612.00/2,000		
SN74ALS574BN	296-1504-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.92	.69	.52
SN74ALS580BNSR	296-13154-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOP	2.34	1.88	1.46
SN74ALS580BNSR	296-13154-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOP	2652.00/2,000		
SN74ALS639AN	296-5068-5-ND	Octal Bus Transceiver	20-Dip	3.51	2.81	2.19
SN74ALS641A-1DW	296-9770-5-ND	Octal Bus Transceiver with OC Output	20-SOIC	3.17	2.54	1.98
SN74ALS641ADW	296-9771-5-ND	Octal Bus Transceiver with OC Output	20-SOIC	2.61	2.09	1.63
SN74ALS652ANT	296-14747-5-ND	Tri-State Octal Bus Transceiver	24-Dip	4.97	3.98	3.10
SN74ALS688N	296-14748-5-ND	8-Bit Identity Comparator	20-Dip	4.39	3.51	2.73
SN74ALS874BNT	296-14752-5-ND	Dual 4-Bit D-Type Flip-Flop	24-Dip	2.75	2.20	1.71
SN74ALS996DWR	296-5098-1-ND	8-Bit READ-BACK Latch	24-SOIC	9.66	7.73	6.53
SN74ALS996DWR	296-5098-2-ND	8-Bit READ-BACK Latch	24-SOIC	12076.00/2,000		
SN74ALS996NT	296-1507-5-ND	8-Bit READ-BACK Latch	24-Dip	9.66	7.73	6.53
SN74ALS1005DR	296-14709-1-ND	Hex Inverting Buffer	14-SOIC	.96	.80	.64
SN74ALS1005DR	296-14709-2-ND	Hex Inverting Buffer	14-SOIC	1040.00/2,500		
SN74ALS1005NSR	296-13146-1-ND	Hex Inverting Buffer with OC Outputs	14-SOP	1.38	1.10	.83
SN74ALS1005NSR	296-13146-2-ND	Hex Inverting Buffer with OC Outputs	14-SOP	1508.00/2,000		
SN74ALS1034D	296-5007-5-ND	Hex Non-Inverting Driver	14-SOIC	1.53	1.22	.92
SN74ALS1035DR	296-14710-1-ND	Hex Non-Inverting Buffer	14-SOIC	.96	.80	.64
SN74ALS1035DR	296-14710-2-ND	Hex Non-Inverting Buffer	14-SOIC	1040.00/2,500		
SN74ALS29827NT	296-14732-5-ND	Tri-State 10-Bit Buffer	24-Dip	5.20	4.16	3.24
SN75ALS057DWR	296-12932-1-ND	Quad Interface Bus Transceiver	20-SOIC	4.37	3.50	2.72
SN75ALS057DWR	296-12932-2-ND	Quad Interface Bus Transceiver	20-SOIC	4948.00/2,000		
SN75ALS057N	296-9927-5-ND	Quad Interface Bus Transceiver	20-Dip	4.37	3.50	2.72
SN75ALS085DW	296-12933-5-ND	Dual Channel Driver/Receiver	24-SOIC	9.00	7.20	6.08
SN75ALS085NT	296-9928-5-ND	Dual Channel Driver/Receiver	24-Dip	9.50	7.60	6.42
SN75ALS160DW	296-9932-5-ND	Octal Bus Transceiver	20-SOIC	2.38	1.90	1.43
SN75ALS161N	296-9933-5-ND	Octal Bus Transceiver	20-Dip	5.60	4.48	3.78
SN75ALS162DW	296-9934-5-ND	Octal Bus Transceiver	24-SOIC	4.70	3.77	2.93
SN75ALS162DWR	296-14963-1-ND	Octal Bus Transceiver	24-SOIC	4.70	3.77	2.93
SN75ALS162DWR	296-14963-2-ND	Octal Bus Transceiver	24-SOIC	5330.00/2,000		
SN75ALS163DWR	296-9935-1-ND	Octal Interface Bus Transceiver	20-SOIC	5.30	4.24	3.58
SN75ALS163DWR	296-9935-2-ND	Octal Interface Bus Transceiver	20-SOIC	6626.00/2,000		
SN75ALS170ADW	296-9936-5-ND	Triple Differential Bus Transceiver	20-SOIC	5.52	4.42	3.73
SN75ALS171ADW	296-9937-5-ND	Triple Differential Bus Transceiver	20-SOIC	5.52	4.42	3.73
SN75ALS171DWR	296-9938-1-ND	Triple Differential Bus Transceiver	20-SOIC	5.14	4.12	3.47
SN75ALS171DWR	296-9938-2-ND	Triple Differential Bus Transceiver	20-SOIC	6426.00/2,000		
SN75ALS172ADW	296-9939-5-ND	Quad Differential Bus Line Driver	20-SOIC	3.26	2.61	2.03
SN75ALS172AN	296-9940-5-ND	Quad Differential Bus Line Driver	16-Dip	3.26	2.61	2.03
SN75ALS173N	296-9951-5-ND	Quad Differential Line Receiver	16-Dip	3.26	2.61	2.03
SN75ALS174AN	296-9952-5-ND	Quad Differential Line Driver	16-Dip	2.36	1.89	1.47
SN75ALS175N	296-9953-5-ND	Quad Differential Line Receiver	16-Dip	2.86	2.29	1.78
SN75ALS175NSR	296-9954-1-ND	Quad Differential Line Receiver	16-SOP	2.86	2.29	1.78
SN75ALS175NSR	296-9954-2-ND	Quad Differential Line Receiver	16-SOP	3238.00/2,000		
SN75ALS176AD	296-9955-5-ND	Differential Bus Transceiver	8-SOIC	1.75	1.40	1.05
SN75ALS176ADR	296-14964-1-ND	Differential Bus Transceiver	8-SOIC	1.75	1.40	1.05
SN75ALS176ADR	296-14964-2-ND	Differential Bus Transceiver	8-SOIC	2240.00/2,500		
SN75ALS176BD	296-9956-5-ND	Differential Bus Transceiver	8-SOIC	1.75	1.40	1.05
SN75ALS176BDR	296-14965-1-ND	Differential Bus Transceiver	8-SOIC	1.20	1.00	.80

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN75ALS176BDR	296-14965-2-ND	Differential Bus Transceiver	8-SOIC	1300.00/2,500		
SN75ALS176BP	296-9957-5-ND	Differential Bus Transceiver	8-Dip	1.55	1.24	.93
SN75ALS176D	296-9958-5-ND	Differential Bus Transceiver	8-SOIC	1.55	1.24	.93
SN75ALS176DR	296-14966-1-ND	Differential Bus Transceiver	8-SOIC	1.55	1.24	.93
SN75ALS176DR	296-14966-2-ND	Differential Bus Transceiver	8-SOIC	1985.00/2,500		
SN75ALS176P	296-9959-5-ND	Differential Bus Transceiver	8-Dip	1.55	1.24	.93
SN75ALS180D	296-9960-5-ND	Differential Driver/Receiver Pair	14-SOIC	2.05	1.64	1.23
SN75ALS180DR	296-14967-1-ND	Differential Driver/Receiver Pair	14-SOIC	2.05	1.64	1.23
SN75ALS180DR	296-14967-2-ND	Differential Driver/Receiver Pair	14-SOIC	2625.00/2,500		
SN75ALS180N	296-9961-5-ND	Differential Driver/Receiver Pair	14-Dip	2.05	1.64	1.23
SN75ALS181N	296-9962-5-ND	Differential Driver/Receiver Pair	14-Dip	2.25	1.80	1.35
SN75ALS181NSR	296-9963-1-ND	Differential Driver/Receiver Pair	14-SOP	2.25	1.80	1.35
SN75ALS181NSR	296-9963-2-ND	Differential Driver/Receiver Pair	14-SOP	2340.00/2,000		
SN75ALS191D	296-9964-5-ND	Dual Differential Line Driver	8-SOIC	1.25	1.00	.75
SN75ALS191P	296-9965-5-ND	Dual Differential Line Driver	8-Dip	1.25	1.00	.75
SN75ALS191PSR	296-13318-1-ND	Dual Differential Line Driver	8-SOP	1.25	1.00	.75
SN75ALS191PSR	296-13318-2-ND	Dual Differential Line Driver	8-SOP	1300.00/2,000		
SN75ALS192D	296-9966-5-ND	Quad Differential Line Driver	16-SOIC	.80	.60	.45
SN75ALS192DR	296-14968-1-ND	Quad Differential Line Driver	16-SOIC	.80	.60	.45
SN75ALS192DR	296-14968-2-ND	Quad Differential Line Driver	16-SOIC	650.00/2,500		
SN75ALS192N	296-15071-5-ND	Quad Differential Line Driver	16-Dip	.80	.60	.45
SN75ALS193D	296-9967-5-ND	Quad Differential Line Receiver	16-SOIC	.88	.66	.50
SN75ALS193N	296-9968-5-ND	Quad Differential Line Receiver	16-Dip	.88	.66	.50
SN75ALS194DR	296-14969-1-ND	Quad Differential Line Driver	16-SOIC	1.26	1.05	.84
SN75ALS194DR	296-14969-2-ND	Quad Differential Line Driver	16-SOIC	1365.00/2,500		
SN75ALS194N	296-9969-5-ND	Quad Differential Line Driver	16-Dip	1.26	1.05	.84
SN75ALS195N	296-9970-5-ND	Quad Differential Line Receiver	16-Dip	1.88	1.50	1.13
SN75ALS197D	296-9971-5-ND	Quad Differential Line Receiver	16-SOIC	.60	.45	.34
SN75ALS197DR	296-14970-1-ND	Quad Differential Line Receiver	16-SOIC	.60	.45	.34
SN75ALS197DR	296-14970-2-ND	Quad Differential Line Receiver	16-SOIC	487.50/2,500		
SN75ALS197N	296-9972-5-ND	Quad Differential Line Receiver	16-Dip	.60	.45	.34
SN75ALS197NSR	296-13319-1-ND	Tri-State Quad Differential Line Receiver	16-SOP	.60	.45	.34
SN75ALS197NSR	296-13319-2-ND	Tri-State Quad Differential Line Receiver	16-SOP	400.00/2,000		
SN75ALS199D	296-9973-5-ND	Quad Differential Line Receiver	16-SOIC	1.26	1.05	.84
SN75ALS1177N	296-9929-5-ND	Tri-State Dual Differential Driver/Receiver	16-Dip	4.05	3.24	2.52
SN75ALS1177NSR	296-9930-1-ND	Tri-State Dual Differential Driver/Receiver	16-SOP	4.05	3.24	2.52
SN75ALS1177NSR	296-9930-2-ND	Tri-State Dual Differential Driver/Receiver	16-SOP	4590.00/2,000		
SN75ALS1178N	296-9931-5-ND	Tri-State Dual Differential Driver/Receiver	16-Dip	4.05	3.24	2.52
SN75ALS1178NSR	296-12185-1-ND	Tri-State Dual Differential Driver/Receiver	16-SOP	4.05	3.24	2.52
SN75ALS1178NSR	296-12185-2-ND	Tri-State Dual Differential Driver/Receiver	16-SOP	4590.00/2,000		

ALVC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74ALVC164245GRDR	296-16868-1-ND	Tri-St. 16-Bit Level Shifting Transceiver	54-BGA	2.40	1.92	1.44
74ALVC164245GRDR	296-16868-2-ND	Tri-St. 16-Bit Level Shifting Transceiver	54-BGA	1248.00/1,000		
74ALVC164245ZRDR	296-16869-1-ND	Tri-St. 16-Bit Level Shifting Transceiver	54-BGA	1.60	1.28	.96
74ALVC164245ZRDR	296-16869-2-ND	Tri-St. 16-Bit Level Shifting Transceiver	54-BGA	832.00/1,000		
CALVC164245IDGGREP	296-19491-1-ND	Tri-State 16-Bit, Noninverting Bus Transceiver ***NEW!***	48-TSSOP	3.04	2.43	1.89
CALVC164245IDGGREP	296-19491-2-ND	Tri-State 16-Bit, Noninverting Bus Transceiver ***NEW!***	48-TSSOP	3442.00/2,000		
CALVC164245IDLREP	296-18092-1-ND	Tri-St. 16-Bit Level Shifting Transceiver	48-SSOP	3.04	2.43	1.89
CALVC164245IDLREP	296-18092-2-ND	Tri-St. 16-Bit Level Shifting Transceiver	48-SSOP	1721.00/1,000		
CALVC164245MDGGREP	296-19492-1-ND	Tri-State 16-Bit, Noninverting Bus Transceiver ***NEW!***	48-TSSOP	5.04	4.04	3.41
CALVC164245MDGGREP	296-19492-2-ND	Tri-State 16-Bit, Noninverting Bus Transceiver ***NEW!***	48-TSSOP	6300.00/2,000		
SN74ALVC00DGVR	296-5100-1-ND	Quad 2-Input NAND Gate	14-TVSOP	.48	.36	.27
SN74ALVC00DGVR	296-5100-2-ND	Quad 2-Input NAND Gate	14-TVSOP	320.00/2,000		
SN74ALVC00DR	296-5101-1-ND	Quad 2-Input NAND Gate	14-SOIC	.45	.36	.27
SN74ALVC00DR	296-5101-2-ND	Quad 2-Input NAND Gate	14-SOIC	305.00/2,500		
SN74ALVC00NSR	296-5103-1-ND	Quad 2-Input NAND Gate	14-SOP	.45	.36	.27
SN74ALVC00NSR	296-5103-2-ND	Quad 2-Input NAND Gate	14-SOP	252.00/2,000		
SN74ALVC00PWR	296-5104-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.45	.36	.27
SN74ALVC00PWR	296-5104-2-ND	Quad 2-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74ALVC04D	296-1508-5-ND	Hex Inverter	14-SOIC	.45	.36	.27
SN74ALVC04DGVR	296-5105-1-ND	Hex Inverter	14-TVSOP	.48	.36	.27
SN74ALVC04DGVR	296-5105-2-ND	Hex Inverter	14-TVSOP	320.00/2,000		
SN74ALVC04DR	296-14780-1-ND	Hex Inverter	14-SOIC	.45	.36	.27
SN74ALVC04DR	296-14780-2-ND	Hex Inverter	14-SOIC	305.00/2,500		
SN74ALVC04PWR	296-5106-1-ND	Hex Inverter	14-TSSOP	.45	.36	.27
SN74ALVC04PWR	296-5106-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74ALVC04RGYR	296-13917-1-ND	Hex Inverter	14-QFN	.56	.42	.32
SN74ALVC04RGYR	296-13917-2-ND	Hex Inverter	14-QFN	186.00/1,000		
SN74ALVC08DGVR	296-5107-1-ND	Quad 2-Input AND Gate	14-TVSOP	.48	.36	.27
SN74ALVC08DGVR	296-5107-2-ND	Quad 2-Input AND Gate	14-TVSOP	320.00/2,000		
SN74ALVC08DR	296-5108-1-ND	Quad 2-Input AND Gate	14-SOIC	.45	.36	.27
SN74ALVC08DR	296-5108-2-ND	Quad 2-Input AND Gate	14-SOIC	305.00/2,500		
SN74ALVC08PWR	296-5109-1-ND	Quad 2-Input AND Gate	14-TSSOP	.45	.36	.27
SN74ALVC08PWR	296-5109-2-ND	Quad 2-Input AND Gate	14-TSSOP	252.00/2,000		
SN74ALVC08RGYR	296-13918-1-ND	Quad 2-Input AND Gate	14-QFN	.64	.48	.36
SN74ALVC08RGYR	296-13918-2-ND	Quad 2-Input AND Gate	14-QFN	213.00/1,000		
SN74ALVC10D	296-1509-5-ND	Triple 3-Input NAND Gate	14-SOIC	.45	.36	.27
SN74ALVC10DR	296-1509-1-ND	Triple 3-Input NAND Gate	14-SOIC	.45	.36	.27
SN74ALVC10DR	296-1509-2-ND	Triple 3-Input NAND Gate	14-SOIC	305.00/2,500		
SN74ALVC10DGVR	296-5110-1-ND	Triple 3-Input NAND Gate	14-TVSOP	.48	.36	.27
SN74ALVC10DGVR	296-5110-2-ND	Triple 3-Input NAND Gate	14-TVSOP	320.00/2,000		
SN74ALVC10NSR	296-5111-1-ND	Triple 3-Input NAND Gate	14-SOP	.45	.36	.27
SN74ALVC10NSR	296-5111-2-ND	Triple 3-Input NAND Gate	14-SOP	252.00/2,000		
SN74ALVC10PWR	296-5112-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.45	.36	.27
SN74ALVC10PWR	296-5112-2-ND	Triple 3-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74ALVC14DGVR	296-5119-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.64	.48	.36
SN74ALVC14DGVR	296-5119-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	426.00/2,000		
SN74ALVC14DR	296-5120-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.45	.36	.27
SN74ALVC14DR	296-5120-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	305.00/2,500		
SN74ALVC14PWR	296-5121-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.45	.36	.27
SN74ALVC14PWR	296-5121-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	252.00/2,000		
SN74ALVC32DGVR	296-5139-1-ND	Quad 2-Input OR Gate	14-TVSOP	.45	.36	.27
SN74ALVC32DGVR	296-5139-2-ND	Quad 2-Input OR Gate	14-TVSOP	252.00/2,000		
SN74ALVC32DR	296-5140-1-ND	Quad 2-Input OR Gate	14-SOIC	.45	.36	.27
SN74ALVC32DR	296-5140-2-ND	Quad 2-Input OR Gate	14-SOIC	305.00/2,500		
SN74ALVC32NSR	296-5141-1-ND	Quad 2-Input OR Gate	14-SOP	.45	.36	.27
SN74ALVC32NSR	296-5141-2-ND	Quad 2-Input OR Gate	14-SOP	252.00/2,000		
SN74ALVC32PWR	296-5142-1-ND	Quad 2-Input OR Gate	14-TSSOP	.45	.36	.27
SN74ALVC32PWR	296-5142-2-ND	Quad 2-Input OR Gate	14-TSSOP	252.00/2,000		
SN74ALVC125D	296-1510-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.52	.39	.30
SN74ALVC125DR	296-1510-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.52	.39	.30
SN74ALVC125DR	296-1510-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	422.50/2,500		
SN74ALVC125DGVR	296-5113-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.52	.39	.30
SN74ALVC125DGVR	296-5113-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	346.00/2,000		
SN74ALVC125NSR	296-5114-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.52	.39	.30
SN74ALVC125NSR	296-5114-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP	346.00/2,000		
SN74ALVC125PWR	296-5115-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.52	.39	.30
SN74ALVC125PWR	296-5115-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	346.00/2,000		
SN74ALVC126DGVR	296-5116-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.64	.48	.36
SN74ALVC126DGVR	296-5116-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	426.00/2,000		
SN74ALVC126DR	296-5117-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.52	.39	.30
SN74ALVC126DR	296-5117-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	422.50/2,500		
SN74ALVC126NSR	296-12859-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.52	.39	.30
SN74ALVC126NSR	296-12859-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP	346.00/2,000		
SN74ALVC126PWR	296-5118-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.52	.39	.30
SN74ALVC126PWR	296-5118-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	346.00/2,000		
SN74ALVC244DGVR	296-12862-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.96	.72	.54
SN74ALVC244DGVR	296-12862-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	638.00/2,000		
SN74ALVC244DWR	296-5135-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74ALVC244DWR	296-5135-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	372.00/2,000		
SN74ALVC244IPWREP	296-19504-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	2.52	2.02	1.57
SN74ALVC244IPWREP	296-19504-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-TSSOP	2856.00/2,000		
SN74ALVC244NSR	296-12863-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.56	.42	.32
SN74ALVC244NSR	296-12863-2-ND	Tri-State Octal Buffer/Driver	20-SOP	372.00/2,000		
SN74ALVC245DGVR	296-5137-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.75	.63	.50
SN74ALVC245DGVR	296-5137-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	666.00/2,000		
SN74ALVC245DWR	296-5138-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.56	.42	.32
SN74ALVC245DWR	296-5138-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	372.00/2,000		
SN74ALVC245PWR	296-9774-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.56	.42	.32
SN74ALVC245PWR	296-9774-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	372.00/2,000		
SN74ALVC16244ADGGR	296-5123-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.05	.88	.70
SN74ALVC16244ADGGR	296-5123-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	932.00/2,000		
SN74ALVC16244ADL	296-5124-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.05	.88	.70
SN74ALVC16244AGQLR	296-9772-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1.88	1.50	1.13
SN74ALVC16244AGQLR	296-9772-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	975.00/1,000		
SN74ALVC16334DGGR	296-1134-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	1.25	1.00	.75
SN74ALVC16334DGGR	296-1134-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	1300.00/2,000		
SN74ALVC16334DGVR	296-5130-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	1.25	1.00	.75
SN74ALVC16334DGVR	296-5130-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	1300.00/2,000		
SN74ALVC16334DL	296-1515-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	1.25	1.00	.75
SN74ALVC16834DGGR	296-1136-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	3.71	2.97	2.31
SN74ALVC16834DGGR	296-1136-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	4208.00/2,000		
SN74ALVC16834DGVR	296-12860-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	4.10	3.28	2.55
SN74ALVC16834DGVR	296-12860-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	4642.00/2,000		
SN74ALVC16834DL	296-1516-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	4.10	3.28	2.55
SN74ALVC16834GQLR	296-5132-1-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	5.40	4.32	3.65
SN74ALVC16834GQLR	296-5132-2-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	3375.00/1,000		
SN74ALVC16835DGGR	296-1137-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2.00	1.60	1.20
SN74ALVC16835DGGR	296-1137-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2080.00/2,000		
SN74ALVC16835DGVR	296-5133-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2.00	1.60	1.20
SN74ALVC16835DGVR	296-5133-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2080.00/2,000		
SN74ALVC16835DL	296-5134-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.00	1.60	1.20
SN74ALVC162334DGGR	296-1131-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	3.71	2.97	2.31
SN74ALVC162334DGGR	296-1131-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	4208.00/2,000		
SN74ALVC162334DGVR	296-5122-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	3.71	2.97	2.31
SN74ALVC162334DGVR	296-5122-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	4208.00/2,000		
SN74ALVC162334DL	296-1511-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	3.71	2.97	2.31
SN74ALVC162334DLR	296-1511-1-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	3.71	2.97	2.31
SN74ALVC162334DLR	296-1511-2-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	2104.00/1,000		
SN74ALVC162831DBBR	296-5125-1-ND	Tri-St. 1-4 Bit Address Register/Driver	80-TVSOP	5.80	4.64	3.92
SN74ALVC162831DBBR	296-5125-2-ND	Tri-St. 1-4 Bit Address Register/Driver	80-TVSOP	7250.00/2,000		
SN74ALVC162834DL	296-1512-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.81	2.25	1.75
SN74ALVC162834DLR	296-1512-1-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.81	2.25	1.75
SN74ALVC162834DLR	296-1512-2-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	1594.00/1,000		
SN74ALVC162834GR	296-5126-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2.81	2.25	1.75
SN74ALVC162834GR	296-5126-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	3188.00/2,000		
SN74ALVC162834VR	296-5127-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2.81	2.25	1.75
SN74ALVC162834VR	296-5127-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	3188.00/2,000		
SN74ALVC162835DGGR	296-1132-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1.38	1.10	.83
SN74ALVC162835DGGR	296-1132-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1430.00/2,000		
SN74ALVC162835DGVR	296-5128-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1.38	1.10	.83
SN74ALVC162835DGVR	296-5128-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1430.00/2,000		
SN74ALVC162835DL	296-1513-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	1.38	1.10	.83
SN74ALVC162836DGGR	296-1133-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	3.71	2.97	2.31
SN74ALVC162836DGGR	296-1133-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	4208.00/2,000		
SN74ALVC162836DGVR	296-5129-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	3.71	2.97	2.31
SN74ALVC162836DGVR	296-5129-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	4208.00/2,000		
SN74ALVC162836DL	296-1514-5-ND	Tri-State 20-Bit Universal Bus Driver	56-SSOP	3.71	2.97	2.31
SN74ALVC164245DGGR	296-1135-1-ND	Tri-State 16-Bit Level Shift Transceiver	48-TSSOP	1.50	1.20	.90
SN74ALVC164245DGGR	296-1135-2-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	1560.00/2,000		
SN74ALVC164245DL	296-5131-5-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	1.50	1.20	.90
SN74ALVC164245DLR	296-14781-1-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	1.50	1.20	.90
SN74ALVC164245DLR	296-14781-2-ND	Tri-State 16-Bit Level Shift Transceiver	48-SSOP	780.00/1,000		
SN74ALVC16835GQLR	296-9773-1-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	2.97	2.38	1.85
SN74ALVC16835GQLR	296-9773-2-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	1683.00/1,000		
SN74ALVC164245KR	296-15395-1-ND	Tri-State 16-Bit Level Shift Transceiver	48-VFBGA	2.25	1.80	1.35
SN74ALVC164245KR	296-15395-2-ND	Tri-State 16-Bit Level Shift Transceiver	48-VFBGA	1170.00/1,000		
SN74ALVCF162834GR	296-13628-1-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TSSOP	1.75	1.40	1.05
SN74ALVCF162834GR	296-13628-2-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TSSOP	1820.00/2,000		
SN74ALVCF162834LR	296-13629-1-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-SSOP	1.75	1.40	1.05
SN74ALVCF162834LR	296-13629-2-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-SSOP	910.00/1,000		
SN74ALVCF162834VR	296-13630-1-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TVSOP	1.75	1.40	1.05
SN74ALVCF162834VR	296-13630-2-ND	Tri-State, 3.3V, CMOS 18-Bit Universal Bus Driver	56-TVSOP	1820.00/2,000		
SN74ALVCF162835GR	296-13607-1-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TSSOP	2.25	1.80	1.35

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVCF162835GR	296-13607-2-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TSSOP	2340.00/2,000		
SN74ALVCF162835LR	296-13608-1-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-SSOP	2.25	1.80	1.35
SN74ALVCF162835LR	296-13608-2-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-SSOP	1170.00/1,000		
SN74ALVCF162835VR	296-13609-1-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TVSOP	2.25	1.80	1.35
SN74ALVCF162835VR	296-13609-2-ND	Tri-State, 3.3V CMOS 18-Bit Universal Bus Driver	56-TVSOP	2340.00/2,000		

ALVCH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ALVCH16244GRDR	296-16870-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	2.40	1.92	1.44
74ALVCH16244GRDR	296-16870-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	1248.00/1,000		
74ALVCH16244ZRDR	296-16871-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	1.60	1.28	.96
74ALVCH16244ZRDR	296-16871-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	832.00/1,000		
74ALVCH16245GRDR	296-16872-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	2.40	1.92	1.44
74ALVCH16245GRDR	296-16872-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	1248.00/1,000		
74ALVCH16245ZRDR	296-16873-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	1.60	1.28	.96
74ALVCH16245ZRDR	296-16873-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	832.00/1,000		
74ALVCH16373GRDR	296-16874-1-ND	Tri-State 16-Bit Transparent D-Type Latch	54-BGA	2.40	1.92	1.44
74ALVCH16373GRDR	296-16874-2-ND	Tri-State 16-Bit Transparent D-Type Latch	54-BGA	1248.00/1,000		
74ALVCH16373ZRDR	296-16875-1-ND	Tri-State 16-Bit Transparent D-Type Latch	54-BGA	1.60	1.28	.96
74ALVCH16373ZRDR	296-16875-2-ND	Tri-State 16-Bit Transparent D-Type Latch	54-BGA	832.00/1,000		
74ALVCH32973ZKER	296-18282-1-ND	16-Bit Bus Transceiver and Transparent D-Type Latch	96-LFBGA	3.38	2.70	2.10
74ALVCH32973ZKER	296-18282-2-ND	16-Bit Bus Transceiver and Transparent D-Type Latch	96-LFBGA	1913.00/1,000		
CALVCH16245IDLREP	296-19493-1-ND	Tri-State 16-Bit Bus Transceiver ***NEW!***	48-SSOP	9.42	7.54	6.36
CALVCH16245IDLREP	296-19493-2-ND	Tri-State 16-Bit Bus Transceiver ***NEW!***	48-SSOP	5888.00/1,000		
SN74ALVCH244DGVR	296-6274-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.88	.66	.50
SN74ALVCH244DGVR	296-6274-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	586.00/2,000		
SN74ALVCH244DW	296-1517-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74ALVCH244DWR	296-1517-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74ALVCH244DWR	296-1517-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	400.00/2,000		
SN74ALVCH244PWR	296-6275-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74ALVCH244PWR	296-6275-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	400.00/2,000		
SN74ALVCH245DGVR	296-6276-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.90	.75	.60
SN74ALVCH245DGVR	296-6276-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	798.00/2,000		
SN74ALVCH245DWR	296-6277-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74ALVCH245DWR	296-6277-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	532.00/2,000		
SN74ALVCH245PWR	296-6278-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.60	.45	.34
SN74ALVCH245PWR	296-6278-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	400.00/2,000		
SN74ALVCH373DGVR	296-6283-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.88	.66	.50
SN74ALVCH373DGVR	296-6283-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	586.00/2,000		
SN74ALVCH373DWR	296-6284-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.80	.60	.45
SN74ALVCH373DWR	296-6284-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	532.00/2,000		
SN74ALVCH373GQNR	296-15400-1-ND	Tri-State Octal Transp. D-Type Latch	20-VFBGA	1.14	.95	.76
SN74ALVCH373GQNR	296-15400-2-ND	Tri-State Octal Transp. D-Type Latch	20-VFBGA	505.00/1,000		
SN74ALVCH373PWR	296-6285-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.80	.60	.45
SN74ALVCH373PWR	296-6285-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	532.00/2,000		
SN74ALVCH374PWR	296-12462-1-ND	Tri-State Octal Pos. Edge-Triggered D-Type Flip-Flop	20-TSSOP	.92	.69	.52
SN74ALVCH374PWR	296-12462-2-ND	Tri-State Octal Pos. Edge-Triggered D-Type Flip-Flop	20-TSSOP	612.00/2,000		
SN74ALVCH16240DGGR	296-5185-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.25	1.00	.75
SN74ALVCH16240DGGR	296-5185-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1300.00/2,000		
SN74ALVCH16240DL	296-5186-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.25	1.00	.75
SN74ALVCH16240DLR	296-5186-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.25	1.00	.75
SN74ALVCH16240DLR	296-5186-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	650.00/1,000		
SN74ALVCH16244DGGR	296-1139-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.25	1.00	.75
SN74ALVCH16244DGGR	296-1139-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1300.00/2,000		
SN74ALVCH16244DGVR	296-5187-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.25	1.00	.75
SN74ALVCH16244DGVR	296-5187-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1300.00/2,000		
SN74ALVCH16244DL	296-5188-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.25	1.00	.75
SN74ALVCH16244DLR	296-5188-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.25	1.00	.75
SN74ALVCH16244DLR	296-5188-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	650.00/1,000		
SN74ALVCH16244KR	296-5189-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1.88	1.50	1.13
SN74ALVCH16244KR	296-5189-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	975.00/1,000		
SN74ALVCH16245DGGR	296-5190-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.25	1.00	.75
SN74ALVCH16245DGGR	296-5190-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1300.00/2,000		
SN74ALVCH16245DGVR	296-5191-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.25	1.00	.75
SN74ALVCH16245DGVR	296-5191-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1300.00/2,000		
SN74ALVCH16245DL	296-5192-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.25	1.00	.75
SN74ALVCH16245DLR	296-5192-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.25	1.00	.75
SN74ALVCH16245DLR	296-5192-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	650.00/1,000		
SN74ALVCH16245KR	296-5193-1-ND	Tri-State 16-Bit Bus Transceiver	48-BGA	1.88	1.50	1.13
SN74ALVCH16245KR	296-5193-2-ND	Tri-State 16-Bit Bus Transceiver	48-BGA	975.00/1,000		
SN74ALVCH16260DGGR	296-1140-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1.25	1.00	.75
SN74ALVCH16260DGGR	296-1140-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1300.00/2,000		
SN74ALVCH16260DLR	296-1141-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	1.25	1.00	.75
SN74ALVCH16260DLR	296-1141-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	650.00/1,000		
SN74ALVCH16269DGGR	296-5198-1-ND	Tri-St. 12-24-Bit Registered Bus Exchanger	56-TSSOP	1.75	1.40	1.05
SN74ALVCH16269DGGR	296-5198-2-ND	Tri-St. 12-24-Bit Registered Bus Exchanger	56-TSSOP	1820.00/2,000		
SN74ALVCH16269DL	296-5199-5-ND	Tri-St. 12-24-Bit Registered Bus Exchanger	56-SSOP	1.75	1.40	1.05
SN74ALVCH16269KR	296-9775-1-ND	Tri-St. 12-24 Bit Registered Bus Exchanger	56-VFBGA	2.36	1.89	1.47
SN74ALVCH16269KR	296-9775-2-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-VFBGA	1339.00/1,000		
SN74ALVCH16270DGGR	296-5200-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1.75	1.40	1.05
SN74ALVCH16270DGGR	296-5200-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1820.00/2,000		
SN74ALVCH16270DL	296-5201-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.75	1.40	1.05
SN74ALVCH16270DLR	296-5201-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.75	1.40	1.05
SN74ALVCH16270DLR	296-5201-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	910.00/1,000		
SN74ALVCH16271DGGR	296-5202-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	3.85	3.08	2.40
SN74ALVCH16271DGGR	296-5202-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	4360.00/2,000		
SN74ALVCH16271DL	296-5203-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	3.85	3.08	2.40
SN74ALVCH16282DBBR	296-5210-1-ND	Tri-State 18-36-Bit Registered Bus Exchanger	80-SOP	7.50	6.00	5.07
SN74ALVCH16282DBBR	296-5210-2-ND	Tri-State 18-36-Bit Registered Bus Exchanger	80-SOP	9376.00/2,000		
SN74ALVCH16334DGGR	296-5220-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	3.71	2.97	2.31
SN74ALVCH16334DGGR	296-5220-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TSSOP	4208.00/2,000		
SN74ALVCH16334DGVR	296-12869-1-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	3.71	2.97	2.31
SN74ALVCH16334DGVR	296-12869-2-ND	Tri-State 16-Bit Universal Bus Driver	48-TVSOP	4208.00/2,000		
SN74ALVCH16334DL	296-5221-5-ND	Tri-State 16-Bit Universal Bus Driver	48-SSOP	3.71	2.97	2.31
SN74ALVCH16344DGGR	296-5222-1-ND	Tri-State 1-4-Bit Address Driver	56-TSSOP	3.71	2.97	2.31
SN74ALVCH16344DGGR	296-5222-2-ND	Tri-State 1-4-Bit Address Driver	56-TSSOP	4208.00/2,000		
SN74ALVCH16344DLR	296-5223-1-ND	Tri-State 1-4-Bit Address Driver	56-SSOP	3.71	2.97	2.31
SN74ALVCH16344DLR	296-5223-2-ND	Tri-State 1-4-Bit Address Driver	56-SSOP	2104.00/1,000		
SN74ALVCH16373DGGR	296-5224-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.25	1.00	.75
SN74ALVCH16373DGGR	296-5224-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1300.00/2,000		
SN74ALVCH16373DL	296-5225-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.25	1.00	.75
SN74ALVCH16373DLR	296-14784-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.25	1.00	.75
SN74ALVCH16373DLR	296-14784-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	650.00/1,000		
SN74ALVCH16373KR	296-9776-1-ND	Tri-State 16-Bit Transp. D-Type Latch	56-VFBGA	2.05	1.64	1.23
SN74ALVCH16373KR	296-9776-2-ND	Tri-State 16-Bit Transp. D-Type Latch	56-VFBGA	1066.00/1,000		
SN74ALVCH16374DGGR	296-1144-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.25	1.00	.75
SN74ALVCH16374DGGR	296-1144-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1300.00/2,000		
SN74ALVCH16374DL	296-5226-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.25	1.00	.75
SN74ALVCH16374DLR	296-5226-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.25	1.00	.75
SN74ALVCH16374DLR	296-5226-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	650.00/1,000		
SN74ALVCH16374KR	296-9777-1-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	2.00	1.60	1.20
SN74ALVCH16374KR	296-9777-2-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	1040.00/1,000		
SN74ALVCH16409DGGR	296-5227-1-ND	Tri-State 9-Bit 4-Port Universal Bus Exchanger	56-TSSOP	1.38	1.10	.83
SN74ALVCH16409DGGR	296-5227-2-ND	Tri-State 9-Bit 4-Port Universal Bus Exchanger	56-TSSOP	1430.00/2,000		
SN74ALVCH16409DL	296-5228-5-ND	Tri-State 9-Bit 4-Port Universal Bus Exchanger	56-SSOP	1.38	1.10	.83
SN74ALVCH16500DGGR	296-5229-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.38	1.10	.83
SN74ALVCH16500DGGR	296-5229-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1430.00/2,000		
SN74ALVCH16500DLR	296-5230-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16500DLR	296-5230-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	715.00/1,000		
SN74ALVCH16501DGGR	296-1145-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.38	1.10	.83
SN74ALVCH16501DGGR	296-1145-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1430.00/2,000		
SN74ALVCH16501DL	296-5231-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16501KR	296-9778-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-VFBGA	2.25	1.80	1.35
SN74ALVCH16501KR	296-9778-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-VFBGA	1170.00/1,000		
SN74ALVCH16524DGGR	296-5232-1-ND	Tri-State 18-Bit Registered Bus Transceiver	56-TSSOP	8.00	6.40	5.40
SN74ALVCH16524DGGR	296-5232-2-ND	Tri-State 18-Bit Registered Bus Transceiver	56-TSSOP	10000.00/2,000		
SN74ALVCH16524DL	296-12870-5-ND	Tri-State 16-Bit Universal Bus Driver	56-SSOP	8.00	6.40	5.40
SN74ALVCH16525DL	296-12871-5-ND	Tri-State 18-Bit Registered Bus Transceiver	56-SSOP	1.88	1.50	1.13
SN74ALVCH16525DGGR	296-5233-1-ND	Tri-State 18-Bit Registered Bus Transceiver	56-TSSOP	1.88	1.50	1.13
SN74ALVCH16525DGGR	296-5233-2-ND	Tri-State 18-Bit Registered Bus Transceiver	56-TSSOP	1950.00/2,000		
SN74ALVCH16543DGGR	296-5236-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1.63	1.30	.98
SN74ALVCH16543DGGR	296-5236-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1690.00/2,000		
SN74ALVCH16543DL	296-5237-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.63	1.30	.98
SN74ALVCH16543DLR	296-14785-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.63	1.30	.98
SN74ALVCH16543DLR	296-14785-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	845.00/1,000		
SN74ALVCH16600DGGR	296-5238-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	4.84	3.87	3.01
SN74ALVCH16600DGGR	296-5238-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	5482.00/2,000		
SN74ALVCH16600DLR	296-5239-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4.84	3.87	3.01
SN74ALVCH16600DLR	296-5239-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	2741.00/1,000		
SN74ALVCH16601DGGR	296-1146-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.63	1.30	.98
SN74ALVCH16601DGGR	296-1146-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1690.00/2,000		
SN74ALVCH16601DL	296-5240-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.63	1.30	.98
SN74ALVCH16601DLR	296-5241-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.63	1.30	.98
SN74ALVCH16601DLR	296-5241-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	845.00/1,000		
SN74ALVCH16646DGGR	296-5242-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TSSOP	2.13	1.70	1.28
SN74ALVCH16646DGGR	296-5242-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TSSOP	2210.00/2,000		
SN74ALVCH16646DGVR	296-5243-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	2.13	1.70	1.28
SN74ALVCH16646DGVR	296-5243-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	2210.00/2,000		
SN74ALVCH16646DL	296-5244-5-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.13	1.70	1.28
SN74ALVCH16646DLR	296-5244-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	2.13	1.70	1.28
SN74ALVCH16646DLR	296-5244-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1105.00/1,000		
SN74ALVCH16721DGGR	296-1147-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	1.63	1.30	.98
SN74ALVCH16721DGGR	296-1147-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	1690.00/2,000		
SN74ALVCH16721DGVR	296-5245-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TVSOP	1.63	1.30	.98
SN74ALVCH16721DGVR	296-5245-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TVSOP	1690.00/2,000		
SN74ALVCH16721DLR	296-5246-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	1.63	1.30	.98
SN74ALVCH16721DLR	296-5246-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	845.00/1,000		
SN74ALVCH16820DGGR	296-5247-1-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-TSSOP	3.49	2.79	2.17
SN74ALVCH16820DGGR	296-5247-2-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-TSSOP	3952.00/2,000		
SN74ALVCH16820DLR	296-5248-1-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-SSOP	3.49	2.79	2.17
SN74ALVCH16820DLR	296-5248-2-ND	Tri-State Dual Output 3.3V, 10-Bit F/F	56-SSOP	1976.00/1,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ALVCH16821DGGR	296-5249-1-ND	Tri-State 3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3.49	2.79	2.17
SN74ALVCH16821DGGR	296-5249-2-ND	Tri-State 3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3952.00/2,000		
SN74ALVCH16821DL	296-5250-5-ND	Tri-State 3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	3.49	2.79	2.17
SN74ALVCH16821DLR	296-5250-1-ND	Tri-State 3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	3.49	2.79	2.17
SN74ALVCH16821DLR	296-5250-2-ND	Tri-State 3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	1976.00/1,000		
SN74ALVCH16823DGVR	296-12872-1-ND	Tri-State 18-Bit Bus Interface Flip-Flop	56-TVSOP	1.75	1.40	1.05
SN74ALVCH16825DGGR	296-5252-1-ND	Tri-State 18-Bit Buffer/Driver	56-TSSOP	1.75	1.40	1.05
SN74ALVCH16825DGGR	296-5252-2-ND	Tri-State 18-Bit Buffer/Driver	56-TSSOP	1820.00/2,000		
SN74ALVCH16825DL	296-5253-5-ND	Tri-State 18-Bit Buffer/Driver	56-SSOP	1.75	1.40	1.05
SN74ALVCH16827DGGR	296-5254-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1.88	1.50	1.13
SN74ALVCH16827DGGR	296-5254-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1950.00/2,000		
SN74ALVCH16827DL	296-5255-5-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	1.88	1.50	1.13
SN74ALVCH16831DBBR	296-5256-1-ND	Tri-State 1-4 Address Register/Driver	80-TVSOP	5.80	4.64	3.92
SN74ALVCH16831DBBR	296-5256-2-ND	Tri-State 1-4 Address Register/Driver	80-TVSOP	7250.00/2,000		
SN74ALVCH16832DGGR	296-5257-1-ND	Tri-State 1-4 Address Register/Driver	64-TSSOP	5.80	4.64	3.92
SN74ALVCH16832DGGR	296-5257-2-ND	Tri-State 1-4 Address Register/Driver	64-TSSOP	7250.00/2,000		
SN74ALVCH16835DGGR	296-1149-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1.50	1.20	.90
SN74ALVCH16835DGGR	296-1149-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	1560.00/2,000		
SN74ALVCH16835DGVR	296-5258-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1.50	1.20	.90
SN74ALVCH16835DGVR	296-5258-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	1560.00/2,000		
SN74ALVCH16835DLR	296-5259-1-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	1.50	1.20	.90
SN74ALVCH16835DLR	296-5259-2-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	780.00/1,000		
SN74ALVCH16835KR	296-5260-1-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	2.48	1.98	1.49
SN74ALVCH16835KR	296-5260-2-ND	Tri-State 18-Bit Universal Bus Driver	56-VFBGA	1287.00/1,000		
SN74ALVCH16841DGGR	296-6261-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	4.50	3.60	2.80
SN74ALVCH16841DGGR	296-6261-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	5100.00/2,000		
SN74ALVCH16841DL	296-6266-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	3.71	2.97	2.31
SN74ALVCH16863DGGR	296-6267-1-ND	Tri-State 18-Bit Transceiver	56-TSSOP	3.71	2.97	2.31
SN74ALVCH16863DGGR	296-6267-2-ND	Tri-State 18-Bit Transceiver	56-TSSOP	4208.00/2,000		
SN74ALVCH16863DLR	296-6268-1-ND	Tri-State 18-Bit Transceiver	56-SSOP	3.71	2.97	2.31
SN74ALVCH16863DLR	296-6268-2-ND	Tri-State 18-Bit Transceiver	56-SSOP	2104.00/1,000		
SN74ALVCH16901DGGR	296-6269-1-ND	18-Bit Universal Bus Transceiver with Parity-Generator/Checker	64-TSSOP	3.38	2.70	2.10
SN74ALVCH16901DGGR	296-6269-2-ND	18-Bit Universal Bus Transceiver with Parity-Generator/Checker	64-TSSOP	3826.00/2,000		
SN74ALVCH16903DGGR	296-6270-1-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-TSSOP	8.50	6.80	5.74
SN74ALVCH16903DGGR	296-6270-2-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-TSSOP	10626.00/2,000		
SN74ALVCH16903DGVR	296-6271-1-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-TVSOP	8.50	6.80	5.74
SN74ALVCH16903DGVR	296-6271-2-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-TVSOP	10626.00/2,000		
SN74ALVCH16903DL	296-12873-5-ND	Tri-State/Dual Output 3.3V, 12-Bit Universal Bus Driver	56-SSOP	8.50	6.80	5.74
SN74ALVCH16952DGGR	296-9780-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1.38	1.10	.83
SN74ALVCH16952DGGR	296-9780-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1430.00/2,000		
SN74ALVCH16952DGVR	296-6272-1-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	1.50	1.20	.90
SN74ALVCH16952DGVR	296-6272-2-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	1560.00/2,000		
SN74ALVCH16952DL	296-6273-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16952DLR	296-6273-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.38	1.10	.83
SN74ALVCH16952DLR	296-6273-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	715.00/1,000		
SN74ALVCH16973DGGR	296-15397-1-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TSSOP	2.59	2.07	1.61
SN74ALVCH16973DGGR	296-15397-2-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TSSOP	2932.00/2,000		
SN74ALVCH16973DGVR	296-15398-1-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TVSOP	2.59	2.07	1.61
SN74ALVCH16973DGVR	296-15398-2-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-TVSOP	2932.00/2,000		
SN74ALVCH16973DLR	296-15399-1-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-SSOP	2.59	2.07	1.61
SN74ALVCH16973DLR	296-15399-2-ND	8-Bit Bus Transceiver and Transparent D-Type Latch	48-SSOP	1466.00/1,000		
SN74ALVCH32244KR	296-6279-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	5.18	4.14	3.22
SN74ALVCH32244KR	296-6279-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2933.00/1,000		
SN74ALVCH32245KR	296-6280-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	5.18	4.14	3.22
SN74ALVCH32245KR	296-6280-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2933.00/1,000		
SN74ALVCH32374KR	296-6281-1-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	5.18	4.14	3.22
SN74ALVCH32374KR	296-6281-2-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	2933.00/1,000		
SN74ALVCH32501KR	296-6282-1-ND	Tri-State 36-Bit Univ. Bus Transceiver	114-BGA	8.80	7.04	5.94
SN74ALVCH32501KR	296-6282-2-ND	Tri-State 36-Bit Univ. Bus Transceiver	114-BGA	5500.00/1,000		
SN74ALVCH32973KR	296-15321-1-ND	16-Bit Bus Transceiver/Transparent D-Type Latch	96-LFBGA	5.18	4.14	3.22
SN74ALVCH32973KR	296-15321-2-ND	16-Bit Bus Transceiver/Transparent D-Type Latch	96-LFBGA	2933.00/1,000		
SN74ALVCH162244DLR	296-5174-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.25	1.00	.75
SN74ALVCH162244DLR	296-5174-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	650.00/1,000		
SN74ALVCH162244GR	296-5175-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.25	1.00	.75
SN74ALVCH162244GR	296-5175-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1300.00/2,000		
SN74ALVCH162260DL	296-5176-5-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-SSOP	1.38	1.10	.83
SN74ALVCH162260GR	296-1138-1-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1.38	1.10	.83
SN74ALVCH162260GR	296-1138-2-ND	Tri-State 12-24-Bit Mux D-Type Latch	56-TSSOP	1430.00/2,000		
SN74ALVCH162268DL	296-5177-5-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.38	1.10	.83
SN74ALVCH162268GR	296-5178-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1.38	1.10	.83
SN74ALVCH162268GR	296-5178-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1430.00/2,000		
SN74ALVCH162268KR	296-15396-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-VFBGA	2.25	1.80	1.35
SN74ALVCH162268KR	296-15396-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-VFBGA	1170.00/1,000		
SN74ALVCH162334DL	296-5179-5-ND	Tri-State 16-Bit Univ. Bus Driver	48-SSOP	4.05	3.24	2.52
SN74ALVCH162334GR	296-5180-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	4.05	3.24	2.52
SN74ALVCH162334GR	296-5180-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	4590.00/2,000		
SN74ALVCH162334VR	296-12864-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	4.05	3.24	2.52
SN74ALVCH162334VR	296-12864-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	4590.00/2,000		
SN74ALVCH162344DL	296-5181-5-ND	Tri-State 1-to-4-Bit Address Driver	56-SSOP	1.25	1.00	.75
SN74ALVCH162344GR	296-5182-1-ND	Tri-State 1-to-4-Bit Address Driver	56-TSSOP	1.25	1.00	.75
SN74ALVCH162344GR	296-5182-2-ND	Tri-State 1-to-4-Bit Address Driver	56-TSSOP	1300.00/2,000		
SN74ALVCH162344VR	296-12865-1-ND	Tri-State 1-to-4-Bit Address Driver	56-TVSOP	1.25	1.00	.75
SN74ALVCH162344VR	296-12865-2-ND	Tri-State 1-to-4-Bit Address Driver	56-TVSOP	1300.00/2,000		
SN74ALVCH162373GR	296-18538-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1.25	1.00	.75
SN74ALVCH162373GR	296-18538-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1300.00/2,000		
SN74ALVCH162373KR	296-18539-1-ND	Tri-State 16-Bit Transparent D-Type Latch	56-VFBGA	1.88	1.50	1.13
SN74ALVCH162373KR	296-18539-2-ND	Tri-State 16-Bit Transparent D-Type Latch	56-VFBGA	975.00/1,000		
SN74ALVCH162373LR	296-18540-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	1.25	1.00	.75
SN74ALVCH162373LR	296-18540-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	650.00/1,000		
SN74ALVCH162374DL	296-5183-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.25	1.00	.75
SN74ALVCH162374GR	296-5184-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.25	1.00	.75
SN74ALVCH162374GR	296-5184-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1300.00/2,000		
SN74ALVCH162525DL	296-12866-5-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	2.13	1.70	1.28
SN74ALVCH162525GR	296-5194-1-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	2.13	1.70	1.28
SN74ALVCH162525GR	296-5194-2-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	2210.00/2,000		
SN74ALVCH162601DL	296-5195-5-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	1.25	1.00	.75
SN74ALVCH162601DLR	296-14782-1-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	1.25	1.00	.75
SN74ALVCH162601DLR	296-14782-2-ND	Tri-State 18-Bit Registered Transceiver	56-SSOP	650.00/1,000		
SN74ALVCH162601GR	296-5196-1-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	1.25	1.00	.75
SN74ALVCH162601GR	296-5196-2-ND	Tri-State 18-Bit Registered Transceiver	56-TSSOP	1300.00/2,000		
SN74ALVCH162721DLR	296-5204-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	3.15	2.52	1.96
SN74ALVCH162721DLR	296-5204-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-SSOP	1785.00/1,000		
SN74ALVCH162721GR	296-5205-1-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	3.15	2.52	1.96
SN74ALVCH162721GR	296-5205-2-ND	Tri-State 3.3V, 20-Bit Flip-Flop	56-TSSOP	3570.00/2,000		
SN74ALVCH162820DL	296-5206-5-ND	Tri-State 3.3V, 10-Bit Flip-Flop with Dual Output	56-SSOP	1.75	1.40	1.05
SN74ALVCH162820GR	296-5207-1-ND	Tri-State 3.3V, 10-Bit Flip-Flop with Dual Output	56-TSSOP	1.75	1.40	1.05
SN74ALVCH162820GR	296-5207-2-ND	Tri-State 3.3V, 10-Bit Flip-Flop with Dual Output	56-TSSOP	1820.00/2,000		
SN74ALVCH162827DLR	296-14783-1-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	1.50	1.20	.90
SN74ALVCH162827DLR	296-14783-2-ND	Tri-State 20-Bit Buffer/Driver	56-SSOP	780.00/1,000		
SN74ALVCH162827GR	296-1142-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1.50	1.20	.90
SN74ALVCH162827GR	296-1142-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	1560.00/2,000		
SN74ALVCH162827VR	296-5209-1-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	1.50	1.20	.90
SN74ALVCH162827VR	296-5209-2-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	1560.00/2,000		
SN74ALVCH162830GR	296-5211-1-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	2.00	1.60	1.20
SN74ALVCH162830GR	296-5211-2-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	2080.00/2,000		
SN74ALVCH162831GR	296-5212-1-ND	Tri-St. 1-4-Bit Address Register/Driver	80-TSSOP	5.84	4.68	3.95
SN74ALVCH162831GR	296-5212-2-ND	Tri-St. 1-4-Bit Address Register/Driver	80-TSSOP	7300.00/2,000		
SN74ALVCH162832GR	296-5213-1-ND	Tri-St. 1-4-Bit Address Register/Driver	64-TSSOP	7.00	5.60	4.73
SN74ALVCH162832GR	296-5213-2-ND	Tri-St. 1-4-Bit Address Register/Driver	64-TSSOP	8750.00/2,000		
SN74ALVCH162835DL	296-5214-5-ND	Tri-State 18-Bit Universal Bus Driver	56-SSOP	2.00	1.60	1.20
SN74ALVCH162835GR	296-5215-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2.00	1.60	1.20
SN74ALVCH162835GR	296-5215-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TSSOP	2080.00/2,000		
SN74ALVCH162835VR	296-12867-1-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2.00	1.60	1.20
SN74ALVCH162835VR	296-12867-2-ND	Tri-State 18-Bit Universal Bus Driver	56-TVSOP	2080.00/2,000		
SN74ALVCH162836DL	296-12868-5-ND	Tri-State 20-Bit Universal Bus Driver	56-SSOP	3.94	3.15	2.45
SN74ALVCH162836GR	296-5216-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	3.94	3.15	2.45
SN74ALVCH162836GR	296-5216-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TSSOP	4462.00/2,000		
SN74ALVCH162836VR	296-5217-1-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	3.94	3.15	2.45
SN74ALVCH162836VR	296-5217-2-ND	Tri-State 20-Bit Universal Bus Driver	56-TVSOP	4462.00/2,000		
SN74ALVCH162841DL	296-5218-5-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-SSOP	2.13	1.70	1.28
SN74ALVCH162841GR	296-5219-1-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	2.13	1.70	1.28
SN74ALVCH162841GR	296-5219-2-ND	Tri-State 20-Bit Bus-Interface D-Type Latch	56-TSSOP	2210.00/2,000		

ALVCHG Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74ALVCHG162280GR	296-6286-1-ND	Tri-State 16-to-32-Bit Registered Bus Exchanger with Byte Mask	80-TSSOP	9.00	7.20	6.08
SN74ALVCHG162280GR	296-6286-2-ND	Tri-State 16-to-32-Bit Registered Bus Exchanger with Byte Mask	80-TSSOP	11250.00/2,000		
SN74ALVCHG162282GR	296-12874-1-ND	Tri-State 18-to-36-Bit Registered Bus Exchanger	80-TVSOP	9.00	7.20	6.08
SN74ALVCHG162282GR	296-12874-2-ND	Tri-State 18-to-36-Bit Registered Bus Exchanger	80-TVSOP	11250.00/2,000		

ALVCHR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74ALVCHR16245GR	296-6287-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.20	1.00	.80
SN74ALVCHR16245GR	296-6287-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1064.00/2,000		
SN74ALVCHR16245LR	296-6288-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ALVCHR16245LR	296-6288-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	532.00/1,000		
SN74ALVCHR16269AGR	296-1280-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1.88	1.50	1.13
SN74ALVCHR16269AGR	296-1280-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TSSOP	1950.00/2,000		
SN74ALVCHR16269ALR	296-6289-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	1.88	1.50	1.13
SN74ALVCHR16269ALR	296-6289-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-SSOP	975.00/1,000		
SN74ALVCHR16269AVR	296-6290-1-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TVSOP	1.88	1.50	1.13
SN74ALVCHR16269AVR	296-6290-2-ND	Tri-State 12-24-Bit Registered Bus Exchanger	56-TVSOP	1950.00/2,000		
SN74ALVCHR16409GR	296-12877-1-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-TSSOP	7.90	6.32	5.34

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74ALVCHR16409GR	296-12877-2-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-TSSOP	9876.00/2,000		
SN74ALVCHR16409LR	296-6291-1-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-SSOP	7.94	6.36	5.36
SN74ALVCHR16409LR	296-6291-2-ND	Tri-State 9-Bit, 4-Port Universal Bus Exchanger	56-SSOP	4963.00/1,000		
SN74ALVCHR16601GR	296-1150-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1.88	1.50	1.13
SN74ALVCHR16601GR	296-1150-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TSSOP	1950.00/2,000		
SN74ALVCHR16601LR	296-6292-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	1.88	1.50	1.13
SN74ALVCHR16601LR	296-6292-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	975.00/1,000		
SN74ALVCHR16601VR	296-12878-1-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TVSOP	1.88	1.50	1.13
SN74ALVCHR16601VR	296-12878-2-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-TVSOP	1950.00/2,000		
SN74ALVCHR162245DL	296-12875-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74ALVCHR162601DL	296-12876-5-ND	Tri-State 18-Bit Univ. Bus Transceiver	56-SSOP	4.84	3.87	3.01

ALVCHS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74ALVCHS162830AGR	296-17630-1-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	5.00	4.00	3.38
74ALVCHS162830AGR	296-17630-2-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	6250.00/2,000		
SN74ALVCHS162830GR	296-6293-1-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	4.05	3.24	2.52
SN74ALVCHS162830GR	296-6293-2-ND	Tri-State 1-2-Bit Address Driver	80-TSSOP	4590.00/2,000		

ALVTH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74ALVTH16240DLR	296-6296-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.32	1.10	.88
SN74ALVTH16240DLR	296-6296-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	585.00/1,000		
SN74ALVTH16240GR	296-6297-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1.32	1.10	.88
SN74ALVTH16240GR	296-6297-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1170.00/2,000		
SN74ALVTH16240VR	296-6298-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74ALVTH16240VR	296-6298-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74ALVTH16244DL	296-1519-5-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.32	1.10	.88
SN74ALVTH16244DLR	296-1519-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.32	1.10	.88
SN74ALVTH16244DLR	296-1519-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	585.00/1,000		
SN74ALVTH16244GR	296-6299-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1.32	1.10	.88
SN74ALVTH16244GR	296-6299-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1170.00/2,000		
SN74ALVTH16244KR	296-6300-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-BGA	2.33	1.86	1.40
SN74ALVTH16244KR	296-6300-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-BGA	1209.00/1,000		
SN74ALVTH16244VR	296-6301-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1.55	1.24	.93
SN74ALVTH16244VR	296-6301-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1612.00/2,000		
SN74ALVTH16245DLR	296-13158-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-SSOP	1.55	1.24	.93
SN74ALVTH16245DLR	296-13158-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-SSOP	806.00/1,000		
SN74ALVTH16245GR	296-13159-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-TSSOP	1.55	1.24	.93
SN74ALVTH16245GR	296-13159-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-TSSOP	1612.00/2,000		
SN74ALVTH16245KR	296-18541-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	56-VFBGA	6.00	4.80	4.05
SN74ALVTH16245KR	296-18541-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	56-VFBGA	3750.00/1000		
SN74ALVTH16245VR	296-13160-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-TVSOP	1.70	1.36	1.02
SN74ALVTH16245VR	296-13160-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-TVSOP	1768.00/2,000		
SN74ALVTH16373DLR	296-6305-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-SSOP	1.32	1.10	.88
SN74ALVTH16373DLR	296-6305-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-SSOP	585.00/1,000		
SN74ALVTH16373GR	296-6306-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TSSOP	1.32	1.10	.88
SN74ALVTH16373GR	296-6306-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TSSOP	1170.00/2,000		
SN74ALVTH16373KR	296-9782-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	56-VFBGA	2.36	1.89	1.47
SN74ALVTH16373KR	296-9782-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	56-VFBGA	1339.00/1,000		
SN74ALVTH16373VR	296-6307-1-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TVSOP	1.55	1.24	.93
SN74ALVTH16373VR	296-6307-2-ND	Tri-St. 2.5V/3.3V, 16-Bit D-Type Latch	48-TVSOP	1612.00/2,000		
SN74ALVTH16374DLR	296-6308-1-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-SSOP	1.32	1.10	.88
SN74ALVTH16374DLR	296-6308-2-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-SSOP	585.00/1,000		
SN74ALVTH16374GR	296-6309-1-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TSSOP	1.32	1.10	.88
SN74ALVTH16374GR	296-6309-2-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TSSOP	1170.00/2,000		
SN74ALVTH16374KR	296-6310-1-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	56-VFBGA	2.36	1.89	1.47
SN74ALVTH16374KR	296-6310-2-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	56-VFBGA	1339.00/1,000		
SN74ALVTH16374VR	296-6311-1-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TVSOP	1.55	1.24	.93
SN74ALVTH16374VR	296-6311-2-ND	Tri-State 2.5V/3.3V, 16-Bit D-Type F/F	48-TVSOP	1612.00/2,000		
SN74ALVTH16601DLR	296-6312-1-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-SSOP	3.38	2.70	2.10
SN74ALVTH16601DLR	296-6312-2-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-SSOP	1913.00/1,000		
SN74ALVTH16601GR	296-6313-1-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TSSOP	3.38	2.70	2.10
SN74ALVTH16601GR	296-6313-2-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TSSOP	3826.00/2,000		
SN74ALVTH16601VR	296-6314-1-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TVSOP	3.38	2.70	2.10
SN74ALVTH16601VR	296-6314-2-ND	Tri-State 2.5V/3.3V, 18-Bit Universal Bus Transceiver	56-TVSOP	3826.00/2,000		
SN74ALVTH16821DL	296-1520-5-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	3.38	2.70	2.10
SN74ALVTH16821DLR	296-1520-1-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	3.38	2.70	2.10
SN74ALVTH16821DLR	296-1520-2-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-SSOP	1913.00/1,000		
SN74ALVTH16821GR	296-6315-1-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3.38	2.70	2.10
SN74ALVTH16821GR	296-6315-2-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TSSOP	3826.00/2,000		
SN74ALVTH16821VR	296-6316-1-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TVSOP	3.38	2.70	2.10
SN74ALVTH16821VR	296-6316-2-ND	Tri-State 2.5V/3.3V, 20-Bit Bus-Interface Flip-Flop	56-TVSOP	3826.00/2,000		
SN74ALVTH16827DL	296-6317-5-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	3.38	2.70	2.10
SN74ALVTH16827DLR	296-6317-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	3.38	2.70	2.10
SN74ALVTH16827DLR	296-6317-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	1913.00/1,000		
SN74ALVTH16827GR	296-6318-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	3.38	2.70	2.10
SN74ALVTH16827GR	296-6318-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	3826.00/2,000		
SN74ALVTH16827VR	296-6319-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	3.38	2.70	2.10
SN74ALVTH16827VR	296-6319-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	3826.00/2,000		
SN74ALVTH32244KR	296-6320-1-ND	Tri-St. 2.5V/3.3V, 32-Bit Buffer/Driver	96-LFBGA	4.50	3.60	2.80
SN74ALVTH32244KR	296-6320-2-ND	Tri-St. 2.5V/3.3V, 32-Bit Buffer/Driver	96-LFBGA	2550.00/1,000		
SN74ALVTH32373KR	296-6321-1-ND	Tri-State 2.5V/3.3V, 32-Bit Transparent D-Type Latch	96-LFBGA	5.40	4.32	3.36
SN74ALVTH32373KR	296-6321-2-ND	Tri-State 2.5V/3.3V, 32-Bit Transparent D-Type Latch	96-LFBGA	3060.00/1,000		
SN74ALVTH32374KR	296-6322-1-ND	Tri-State 2.5V/3.3V, 32-Bit D-Type Flip-Flop	96-LFBGA	4.95	3.96	3.08
SN74ALVTH32374KR	296-6322-2-ND	Tri-State 2.5V/3.3V, 32-Bit D-Type Flip-Flop	96-LFBGA	2805.00/1,000		
SN74ALVTH162244DL	296-1518-5-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.32	1.10	.88
SN74ALVTH162244GR	296-6294-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1.32	1.10	.88
SN74ALVTH162244GR	296-6294-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TSSOP	1170.00/2,000		
SN74ALVTH162244LR	296-12879-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	1.32	1.10	.88
SN74ALVTH162244LR	296-12879-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-SSOP	585.00/1,000		
SN74ALVTH162244VR	296-6295-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74ALVTH162244VR	296-6295-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74ALVTH162245GR	296-13155-1-ND	Tri-State 2.5V/3.3V, 16-Bit Bus Transceiver	48-TSSOP	1.32	1.10	.88
SN74ALVTH162245GR	296-13155-2-ND	Tri-State 2.5V/3.3V, 16-Bit Bus Transceiver	48-TSSOP	1170.00/2,000		
SN74ALVTH162245LR	296-13156-1-ND	Tri-State 2.5V/3.3V, 16-Bit Bus Transceiver	48-SSOP	1.32	1.10	.88
SN74ALVTH162245LR	296-13156-2-ND	Tri-State 2.5V/3.3V, 16-Bit Bus Transceiver	48-SSOP	585.00/1,000		
SN74ALVTH162245VR	296-13157-1-ND	Tri-State 2.5V/3.3V, 16-Bit Bus Transceiver	48-TVSOP	1.50	1.20	.90
SN74ALVTH162245VR	296-13157-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-TVSOP	1560.00/2,000		
SN74ALVTH162827GR	296-6303-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	2.93	2.34	1.82
SN74ALVTH162827GR	296-6303-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TSSOP	3316.00/2,000		
SN74ALVTH162827LR	296-15401-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	2.93	2.34	1.82
SN74ALVTH162827LR	296-15401-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-SSOP	1658.00/1,000		
SN74ALVTH162827VR	296-6304-1-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	2.93	2.34	1.82
SN74ALVTH162827VR	296-6304-2-ND	Tri-St. 2.5V/3.3V, 20-Bit Buffer/Driver	56-TVSOP	3316.00/2,000		

ALVTHR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74ALVTHR16245GR	296-15402-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-TSSOP	1.70	1.36	1.02
SN74ALVTHR16245GR	296-15402-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-TSSOP	1768.00/2,000		
SN74ALVTHR16245KR	296-18542-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	56-VFBGA	2.48	1.98	1.54
SN74ALVTHR16245KR	296-18542-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	56-VFBGA	1403.00/1,000		
SN74ALVTHR16245LR	296-15403-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-SSOP	1.70	1.36	1.02
SN74ALVTHR16245LR	296-15403-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-SSOP	884.00/1,000		
SN74ALVTHR16245VR	296-15404-1-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-TVSOP	1.88	1.50	1.13
SN74ALVTHR16245VR	296-15404-2-ND	Tri-St. 2.5V/3.3V, 16-Bit Bus Transcvr.	48-TVSOP	1950.00/2,000		

AS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74AS00DR	296-14787-1-ND	Quad 2-Input NAND Gate	14-SOIC	.96	.72	.54
SN74AS00DR	296-14787-2-ND	Quad 2-Input NAND Gate	14-SOIC	780.00/2,500		
SN74AS00N	296-1521-5-ND	Quad 2-Input NAND Gate	14-Dip	.96	.72	.54
SN74AS02DR	296-14788-1-ND	Quad 2-Input NOR Gate	14-SOIC	1.29	1.08	.86
SN74AS02DR	296-14788-2-ND	Quad 2-Input NOR Gate	14-SOIC	1397.50/2,500		
SN74AS02N	296-14789-5-ND	Quad 2-Input NOR Gate	14-Dip	1.29	1.08	.86
SN74AS04DR	296-14790-1-ND	Hex Inverter	14-SOIC	.96	.72	.54
SN74AS04DR	296-14790-2-ND	Hex Inverter	14-SOIC	780.00/2,500		
SN74AS04N	296-1522-5-ND	Hex Inverter	14-Dip	.96	.72	.54
SN74AS10DR	296-6333-1-ND	Triple 3-Input NAND Gate	14-SOIC	.75	.63	.50
SN74AS10DR	296-6333-2-ND	Triple 3-Input NAND Gate	14-SOIC	812.50/2,500		
SN74AS21NSR	296-13162-1-ND	Dual 4-Input Positive AND Gate	14-SOP	1.14	.95	.76
SN74AS21NSR	296-13162-2-ND	Dual 4-Input Positive AND Gate	14-SOP	1010.00/2,000		
SN74AS27D	296-6350-5-ND	Tri-State Triple Positive NOR Gate	14-SOIC	.96	.72	.54
SN74AS32DR	296-6354-1-ND	Quad 2-Input OR Gate	14-SOIC	.96	.72	.54
SN74AS32DR	296-6354-2-ND	Quad 2-Input OR Gate	14-SOIC	780.00/2,500		
SN74AS138N	296-14793-5-ND	3-8 Line Decoder/Demux	16-Dip	1.68	1.34	1.01
SN74AS151NSR	296-13161-1-ND	1-of-8 Data Selector/Multiplexer	16-SOP	1.68	1.34	1.01
SN74AS151NSR	296-13161-2-ND	1-of-8 Data Selector/Multiplexer	16-SOP	1742.00/2,000		
SN74AS194D	296-6341-5-ND	4-Bit, Bi-Directional Univ. Shift Register	16-SOIC	2.70	2.16	1.68
SN74AS194DR	296-6341-1-ND	4-Bit, Bi-Directional Univ. Shift Register	16-SOP	2.70	2.16	1.68
SN74AS194DR	296-6341-2-ND	4-Bit, Bi-Directional Univ. Shift Register	16-SOP	3780.00/2,500		
SN74AS253AD	296-11843-5-ND	Tri-St. Dual 1-of-4 Data Selector/Mux	16-SOIC	2.99	2.40	1.87
SN74AS298ANSR	296-13163-1-ND	Quad 2-Input Multiplexer with Storage	16-SOP	2.59	2.07	1.61
SN74AS298ANSR	296-13163-2-ND	Quad 2-Input Multiplexer with Storage	16-SOP	2932.00/2,000		
SN74AS645N	296-14794-5-ND	Tri-State Octal Bus Transceiver	20-Dip	3.24	2.60	2.02
SN74AS757N	296-12180-5-ND	Octal Buffer/Line Driver with OC Output	20-Dip	6.16	4.93	4.16
SN74AS760DWR	296-14795-1-ND	Octal Buffer/Line Driver with OC Output	20-SOIC	4.12	3.30	2.57
SN74AS760DWR	296-14795-2-ND	Octal Buffer/Line Driver with OC Output	20-SOIC	4666.00/2,000		
SN74AS874NT	296-6381-5-ND	Dual 4-Bit D-Type Edge-Triggered F/F	24-Dip	5.18	4.14	3.22
SN74AS1000ADR	296-14791-1-ND	Quad 2-Input NAND Buffer/Driver	14-SOIC	1.38	1.10	.83
SN74AS1000ADR	296-14791-2-ND	Quad 2-Input NAND Buffer/Driver	14-SOIC	1760.00/2,500		
SN74AS1004ADR	296-14792-1-ND	Hex Inverting Driver	14-SOIC	1.38	1.10	.83
SN74AS1004ADR	296-14792-2-ND	Hex Inverting Driver	14-SOIC	1760.00/2,500		

AUC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74AUC1G00DBVR	296-13164-1-ND	Single 2-Input Positive NAND Gate	SOT-23-5	.50	.41	.28
SN74AUC1G00DBVR	296-13164-2-ND	Single 2-Input Positive NAND Gate	SOT-23-5	393.00/3,000		
SN74AUC1G00DCKR	296-13165-1-ND	Single 2-Input Positive NAND Gate	SC70-5	.50	.41	.28
SN74AUC1G00DCKR	296-13165-2-ND	Single 2-Input Positive NAND Gate	SC70-5	393.00/3,000		
SN74AUC1G00DRLR	296-19319-1-ND	Single 2-In. Positive NAND Gate ***NEW!***	5-SOP	.50	.41	.28
SN74AUC1G00DRLR	296-19319-2-ND	Single 2-In. Positive NAND Gate ***NEW!***	5-SOP	524.00/4,000		
SN74AUC1G00YEAR	296-15422-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.96	.72	.54
SN74AUC1G00YEAR	296-15422-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	936.00/3,000		
SN74AUC1G00YEPR	296-18545-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.96	.72	.54
SN74AUC1G00YEPR	296-18545-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	936.00/3,000		
SN74AUC1G00YZPR	296-18546-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.48	.36	.27
SN74AUC1G00YZPR	296-18546-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	468.00/3,000		
SN74AUC1G02DBVR	296-13166-1-ND	Single 2-Input Positive NOR Gate	SOT-23-5	.50	.41	.28
SN74AUC1G02DBVR	296-13166-2-ND	Single 2-Input Positive NOR Gate	SOT-23-5	393.00/3,000		
SN74AUC1G02DCKR	296-13167-1-ND	Single 2-Input Positive NOR Gate	SC70-5	.50	.41	.28
SN74AUC1G02DCKR	296-13167-2-ND	Single 2-Input Positive NOR Gate	SC70-5	393.00/3,000		
SN74AUC1G02DRLR	296-18710-1-ND	Single 2-Input Positive NOR Gate	SOT-553	.50	.41	.28
SN74AUC1G02DRLR	296-18710-2-ND	Single 2-Input Positive NOR Gate	SOT-553	524.00/4,000		
SN74AUC1G02YEAR	296-13724-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G02YEAR	296-13724-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	936.00/3,000		
SN74AUC1G02YEPR	296-18547-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G02YEPR	296-18547-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	936.00/3,000		
SN74AUC1G04DBVR	296-13168-1-ND	Single Inverter Gate	SOT-23-5	.50	.41	.28
SN74AUC1G04DBVR	296-13168-2-ND	Single Inverter Gate	SOT-23-5	393.00/3,000		
SN74AUC1G04DCKR	296-13169-1-ND	Single Inverter Gate	SC70-5	.50	.41	.28
SN74AUC1G04DCKR	296-13169-2-ND	Single Inverter Gate	SC70-5	393.00/3,000		
SN74AUC1G04DRLR	296-18313-1-ND	Single Inverter Gate	SOT-553	.50	.41	.28
SN74AUC1G04DRLR	296-18313-2-ND	Single Inverter Gate	SOT-553	524.00/4,000		
SN74AUC1G04YEAR	296-13725-1-ND	Single Inverter Gate	5-DSBGA	.96	.72	.54
SN74AUC1G04YEAR	296-13725-2-ND	Single Inverter Gate	5-DSBGA	936.00/3,000		

(Continued)

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
SN74AUC1G04YEPR	296-15260-1-ND	Single Inverter Gate	5-DSBGA	.96	.72	.54
SN74AUC1G04YEPR	296-15260-2-ND	Single Inverter Gate	5-DSBGA		936.00/3,000	
SN74AUC1G04YZAR	296-14350-1-ND	Single Inverter Gate	5-DSBGA	.96	.72	.54
SN74AUC1G04YZAR	296-14350-2-ND	Single Inverter Gate	5-DSBGA		936.00/3,000	
SN74AUC1G04YZPR	296-15261-1-ND	Single Inverter Gate	5-DSBGA	.48	.36	.27
SN74AUC1G04YZPR	296-15261-2-ND	Single Inverter Gate	5-DSBGA		468.00/3,000	
SN74AUC1G06DBVR	296-12652-1-ND	Single Inverter Buffer/Driver with Open Drain Output	SOT-23-5	.50	.41	.28
SN74AUC1G06DBVR	296-12652-2-ND	Single Inverter Buffer/Driver with Open Drain Output	SOT-23-5		393.00/3,000	
SN74AUC1G06DCKR	296-12653-1-ND	Single Inverter Buffer/Driver with Open Drain Output	SC70-5	.50	.41	.28
SN74AUC1G06DCKR	296-12653-2-ND	Single Inverter Buffer/Driver with Open Drain Output	SC70-5		393.00/3,000	
SN74AUC1G06YEAR	296-15423-1-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA	.96	.72	.54
SN74AUC1G06YEAR	296-15423-2-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA		936.00/3,000	
SN74AUC1G06YZPR	296-18548-1-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA	.48	.36	.27
SN74AUC1G06YZPR	296-18548-2-ND	Single Inverter Buffer/Driver with Open Drain Output	5-DSBGA		468.00/3,000	
SN74AUC1G07DBVR	296-12463-1-ND	Single Buffer/Driver with Open Drain Output	SOT-23-5	.50	.41	.28
SN74AUC1G07DBVR	296-12463-2-ND	Single Buffer/Driver with Open Drain Output	SOT-23-5		393.00/3,000	
SN74AUC1G07DCKR	296-12464-1-ND	Single Buffer/Driver with Open Drain Output	SC70-5	.50	.41	.28
SN74AUC1G07DCKR	296-12464-2-ND	Single Buffer/Driver with Open Drain Output	SC70-5		393.00/3,000	
SN74AUC1G07YEAR	296-13726-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	.96	.72	.54
SN74AUC1G07YEAR	296-13726-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA		936.00/3,000	
SN74AUC1G07YEPR	296-18549-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	.96	.72	.54
SN74AUC1G07YEPR	296-18549-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA		936.00/3,000	
SN74AUC1G07YZAR	296-14014-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	.96	.72	.54
SN74AUC1G07YZAR	296-14014-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA		936.00/3,000	
SN74AUC1G07YZPR	296-18550-1-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA	.48	.36	.27
SN74AUC1G07YZPR	296-18550-2-ND	Single Buffer/Driver with Open Drain Output	5-DSBGA		468.00/3,000	
SN74AUC1G08DBVR	296-13170-1-ND	Single 2-Input Positive AND Gate	SOT-23-5	.50	.41	.28
SN74AUC1G08DBVR	296-13170-2-ND	Single 2-Input Positive AND Gate	SOT-23-5		393.00/3,000	
SN74AUC1G08DCKR	296-13171-1-ND	Single 2-Input Positive AND Gate	SC70-5	.50	.41	.28
SN74AUC1G08DCKR	296-13171-2-ND	Single 2-Input Positive AND Gate	SC70-5		393.00/3,000	
SN74AUC1G08DRLR	296-18294-1-ND	Single 2-Input Positive AND Gate	SOT-553	.50	.41	.28
SN74AUC1G08DRLR	296-18294-2-ND	Single 2-Input Positive AND Gate	SOT-553		524.00/4,000	
SN74AUC1G08YEAR	296-15424-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.96	.72	.54
SN74AUC1G08YEAR	296-15424-2-ND	Single 2-Input Positive AND Gate	5-DSBGA		936.00/3,000	
SN74AUC1G08YEPR	296-15098-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.96	.72	.54
SN74AUC1G08YEPR	296-15098-2-ND	Single 2-Input Positive AND Gate	5-DSBGA		936.00/3,000	
SN74AUC1G08YZAR	296-14015-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.96	.72	.54
SN74AUC1G08YZAR	296-14015-2-ND	Single 2-Input Positive AND Gate	5-DSBGA		936.00/3,000	
SN74AUC1G08YZPR	296-15099-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.48	.36	.27
SN74AUC1G08YZPR	296-15099-2-ND	Single 2-Input Positive AND Gate	5-DSBGA		468.00/3,000	
SN74AUC1G14DBVR	296-12880-1-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.50	.41	.28
SN74AUC1G14DBVR	296-12880-2-ND	Single Schmitt-Trigger Inverter	SOT-23-5		393.00/3,000	
SN74AUC1G14DCKR	296-13172-1-ND	Single Schmitt-Trigger Inverter	SC70-5	.50	.41	.28
SN74AUC1G14DCKR	296-13172-2-ND	Single Schmitt-Trigger Inverter	SC70-5		393.00/3,000	
SN74AUC1G14YEAR	296-13727-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.96	.72	.54
SN74AUC1G14YEAR	296-13727-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA		936.00/3,000	
SN74AUC1G14YEPR	296-18553-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.96	.72	.54
SN74AUC1G14YEPR	296-18553-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA		936.00/3,000	
SN74AUC1G14YZAR	296-14016-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.96	.72	.54
SN74AUC1G14YZAR	296-14016-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA		936.00/3,000	
SN74AUC1G14YZPR	296-18554-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.48	.36	.27
SN74AUC1G14YZPR	296-18554-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA		468.00/3,000	
SN74AUC1G17DBVR	296-12654-1-ND	Single Schmitt-Trigger Buffer	SOT-23-5	.50	.41	.28
SN74AUC1G17DBVR	296-12654-2-ND	Single Schmitt-Trigger Buffer	SOT-23-5		393.00/3,000	
SN74AUC1G17DCKR	296-13173-1-ND	Single Schmitt-Trigger Buffer	SC70-5	.50	.41	.28
SN74AUC1G17DCKR	296-13173-2-ND	Single Schmitt-Trigger Buffer	SC70-5		393.00/3,000	
SN74AUC1G17DRLR	296-18646-1-ND	Single Schmitt-Trigger Buffer	SOT-553	.50	.41	.28
SN74AUC1G17DRLR	296-18646-2-ND	Single Schmitt-Trigger Buffer	SOT-553		524.00/4,000	
SN74AUC1G17YEAR	296-13728-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.96	.72	.54
SN74AUC1G17YEAR	296-13728-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA		936.00/3,000	
SN74AUC1G17YEPR	296-18555-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.96	.72	.54
SN74AUC1G17YEPR	296-18555-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA		936.00/3,000	
SN74AUC1G17YZAR	296-14017-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.96	.72	.54
SN74AUC1G17YZAR	296-14017-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA		936.00/3,000	
SN74AUC1G17YZPR	296-18556-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.48	.36	.27
SN74AUC1G17YZPR	296-18556-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA		468.00/3,000	
SN74AUC1G19DBVR	296-17895-1-ND	1-of-2 Decoder/Demux	SOT-23-6	.50	.41	.28
SN74AUC1G19DBVR	296-17895-2-ND	1-of-2 Decoder/Demux	SOT-23-6		393.00/3,000	
SN74AUC1G19DCKR	296-17896-1-ND	1-of-2 Decoder/Demux	SC70-6	.50	.41	.28
SN74AUC1G19DCKR	296-17896-2-ND	1-of-2 Decoder/Demux	SC70-6		393.00/3,000	
SN74AUC1G19DRLR	296-18711-1-ND	1-of-2 Decoder/Demux	SOT-553	.41	.33	.25
SN74AUC1G19DRLR	296-18711-2-ND	1-of-2 Decoder/Demux	SOT-553		444.00/4,000	
SN74AUC1G19YZPR	296-17897-1-ND	1-of-2 Decoder/Demux	6-WCSP	.50	.38	.29
SN74AUC1G19YZPR	296-17897-2-ND	1-of-2 Decoder/Demux	6-WCSP		489.00/3,000	
SN74AUC1G32DBVR	296-12655-1-ND	Single 2-Input Positive OR Gate	SOT-23-5	.50	.41	.28
SN74AUC1G32DBVR	296-12655-2-ND	Single 2-Input Positive OR Gate	SOT-23-5		393.00/3,000	
SN74AUC1G32DCKR	296-12656-1-ND	Single 2-Input Positive OR Gate	SC70-5	.50	.41	.28
SN74AUC1G32DCKR	296-12656-2-ND	Single 2-Input Positive OR Gate	SC70-5		393.00/3,000	
SN74AUC1G32DRLR	296-18647-1-ND	Single 2-Input Positive OR Gate	SOT-553	.50	.41	.28
SN74AUC1G32DRLR	296-18647-2-ND	Single 2-Input Positive OR Gate	SOT-553		524.00/4,000	
SN74AUC1G32YEAR	296-13729-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G32YEAR	296-13729-2-ND	Single 2-Input Positive OR Gate	5-DSBGA		936.00/3,000	
SN74AUC1G32YEPR	296-18557-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G32YEPR	296-18557-2-ND	Single 2-Input Positive OR Gate	5-DSBGA		936.00/3,000	
SN74AUC1G32YZAR	296-14018-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G32YZAR	296-14018-2-ND	Single 2-Input Positive OR Gate	5-DSBGA		936.00/3,000	
SN74AUC1G32YZPR	296-18558-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.56	.42	.32
SN74AUC1G32YZPR	296-18558-2-ND	Single 2-Input Positive OR Gate	5-DSBGA		546.00/3,000	
SN74AUC1G66DBVR	296-15427-1-ND	Single Bilateral Analog Switch	SOT-23-5	.50	.41	.28
SN74AUC1G66DBVR	296-15427-2-ND	Single Bilateral Analog Switch	SOT-23-5		393.00/3,000	
SN74AUC1G66DCKR	296-15428-1-ND	Single Bilateral Analog Switch	SC70-5	.50	.41	.28
SN74AUC1G66DCKR	296-15428-2-ND	Single Bilateral Analog Switch	SC70-5		393.00/3,000	
SN74AUC1G66YEAR	296-15429-1-ND	Single Bilateral Analog Switch	5-DSBGA	.96	.72	.54
SN74AUC1G66YEAR	296-15429-2-ND	Single Bilateral Analog Switch	5-DSBGA		936.00/3,000	
SN74AUC1G74DCTR	296-18559-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-SSOP	.56	.42	.32
SN74AUC1G74DCTR	296-18559-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-SSOP		546.00/3,000	
SN74AUC1G74DCUR	296-18560-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-VSSOP	.56	.42	.32
SN74AUC1G74DCUR	296-18560-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-VSSOP		546.00/3,000	
SN74AUC1G74YEPR	296-16733-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.96	.72	.54
SN74AUC1G74YEPR	296-16733-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA		936.00/3,000	
SN74AUC1G79DBVR	296-15430-1-ND	Single D-Type Flip-Flop	SOT-23-6	.46	.37	.28
SN74AUC1G79DBVR	296-15430-2-ND	Single D-Type Flip-Flop	SOT-23-6		372.00/3,000	
SN74AUC1G79DCKR	296-14309-1-ND	Single D-Type Flip-Flop	SC70-5	.46	.37	.28
SN74AUC1G79DCKR	296-14309-2-ND	Single D-Type Flip-Flop	SC70-5		372.00/3,000	
SN74AUC1G79YEAR	296-14351-1-ND	Single D-Type Flip-Flop	5-DSBGA	.96	.72	.54
SN74AUC1G79YEAR	296-14351-2-ND	Single D-Type Flip-Flop	5-DSBGA		936.00/3,000	
SN74AUC1G79YEPR	296-18561-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	.96	.72	.54
SN74AUC1G79YEPR	296-18561-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA		936.00/3,000	
SN74AUC1G79YZPR	296-18562-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA	.60	.45	.34
SN74AUC1G79YZPR	296-18562-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	5-DSBGA		585.00/3,000	
SN74AUC1G80DBVR	296-15431-1-ND	Single D-Type Flip-Flop	SOT-23-6	.46	.37	.28
SN74AUC1G80DBVR	296-15431-2-ND	Single D-Type Flip-Flop	SOT-23-6		372.00/3,000	
SN74AUC1G80DCKR	296-14310-1-ND	Single D-Type Flip-Flop	SC70-5	.46	.37	.28
SN74AUC1G80DCKR	296-14310-2-ND	Single D-Type Flip-Flop	SC70-5		372.00/3,000	
SN74AUC1G80YEAR	296-14352-1-ND	Single D-Type Flip-Flop	5-DSBGA	.96	.72	.54
SN74AUC1G80YEAR	296-14352-2-ND	Single D-Type Flip-Flop	5-DSBGA		936.00/3,000	
SN74AUC1G80YEPR	296-15889-1-ND	Single D-Type Flip-Flop	5-DSBGA	.96	.72	.54
SN74AUC1G80YEPR	296-15889-2-ND	Single D-Type Flip-Flop	5-DSBGA		936.00/3,000	
SN74AUC1G80YZPR	296-15890-1-ND	Single D-Type Flip-Flop	5-DSBGA	.60	.45	.34
SN74AUC1G80YZPR	296-15890-2-ND	Single D-Type Flip-Flop	5-DSBGA		585.00/3,000	
SN74AUC1G86DBVR	296-15432-1-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.50	.41	.28
SN74AUC1G86DBVR	296-15432-2-ND	Single 2-Input Exclusive OR Gate	SOT-23-5		393.00/3,000	
SN74AUC1G86DCKR	296-15433-1-ND	Single 2-Input Exclusive OR Gate	SC70-5	.50	.41	.28
SN74AUC1G86DCKR	296-15433-2-ND	Single 2-Input Exclusive OR Gate	SC70-5		393.00/3,000	
SN74AUC1G86YEAR	296-15434-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G86YEAR	296-15434-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA		936.00/3,000	
SN74AUC1G86YEPR	296-18563-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G86YEPR	296-18563-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA		936.00/3,000	
SN74AUC1G86YZAR	296-15435-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	.96	.72	.54
SN74AUC1G86YZAR	296-15435-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA		936.00/3,000	
SN74AUC1G86YZPR	296-18564-1-ND	Single 2-Input Exclusive OR Gate	5-DSBGA	.48	.36	.27
SN74AUC1G86YZPR	296-18564-2-ND	Single 2-Input Exclusive OR Gate	5-DSBGA		468.00/3,000	
SN74AUC1G125DBVR	296-12657-1-ND	Tri-State Bus Buffer Gate	SOT-23-5	.50	.41	.28
SN74AUC1G125DBVR	296-12657-2-ND	Tri-State Bus Buffer Gate	SOT-23-5		393.00/3,000	
SN74AUC1G125DCKR	296-12658-1-ND	Tri-State Bus Buffer Gate	SC70-5	.50	.41	.28
SN74AUC1G125DCKR	296-12658-2-ND	Tri-State Bus Buffer Gate	SC70-5		393.00/3,000	
SN74AUC1G125YEAR	296-15425-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	.96	.72	.54
SN74AUC1G125YEAR	296-15425-2-ND	Tri-State Bus Buffer Gate	5-DSBGA		936.00/3,000	
SN74AUC1G125YZAR	296-15426-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	.96	.72	.54
SN74AUC1G125YZAR	296-15426-2-ND	Tri-State Bus Buffer Gate	5-DSBGA		936.00/3,000	
SN74AUC1G125YZPR	296-18551-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	.52	.39	.30
SN74AUC1G125YZPR	296-18551-2-ND	Tri-State Bus Buffer Gate	5-DSBGA		507.00/3,000	
SN74AUC1G126DBVR	296-12659-1-ND	Tri-State Bus Buffer Gate	SOT-23-5	.50	.41	.28
SN74AUC1G126DBVR	296-12659-2-ND	Tri-State Bus Buffer Gate	SOT-23-5		393.00/3,000	
SN74AUC1G126DCKR	296-12660-1-ND	Tri-State Bus Buffer Gate	SC70-5	.50	.41	.28
SN74AUC1G126DCKR	296-12660-2-ND	Tri-State Bus Buffer Gate	SC70-5		393.00/3,000	
SN74AUC1G126YEPR	296-18552-1-ND	Tri-State Bus Buffer Gate	5-DSBGA	.96	.72	.54
SN74AUC1G126YEPR	296-18552-2-ND	Tri-State Bus Buffer Gate	5-DSBGA		936.00/3,000	
SN74AUC1G240DBVR	296-12661-1-ND	Tri-State Buffer/Driver Gate	SOT-23-5	.46	.37	.28
SN74AUC1G240DBVR	296-12661-2-ND	Tri-State Buffer/Driver Gate	SOT-23-5		372.00/3,000	
SN74AUC1G240DCKR	296-12662-1-ND	Tri-State Buffer/Driver Gate	SC70-5	.50	.41	.28
SN74AUC1G240DCKR	296-12662-2-ND	Tri-State Buffer/Driver Gate	SC70-5		393.00/3,000	
SN74AUC1G240YEPR	296-15100-1-ND	Tri-State Buffer/Driver Gate	5-DSBGA	.96	.72	.54
SN74AUC1G240YEPR	296-15100-2-ND	Tri-State Buffer/Driver Gate	5-DSBGA		936.00/3,000	
SN74AUC1G240YZPR	296-15101-1-ND	Tri-State Buffer/Driver Gate	5-DSBGA	.48	.36	.27
SN74AUC1G240YZPR	296-15101-2-ND	Tri-State Buffer/Driver Gate	5-DSBGA		468.00/3,000	
SN74AUC1GU04DBVR	296-13174-1-ND	Single Inverter Gate	SOT-23-5	.50	.41	.28
SN74AUC1GU04DBVR	296-13174-2-ND	Single Inverter Gate	SOT-23-5		393.00/3,000	
SN74AUC1GU04DCKR	296-13175-1-ND	Single Inverter Gate	SC70-5	.50	.41	.28
SN74AUC1GU04DCKR	296-13175-2-ND	Single Inverter Gate	SC70-5		393.00/3,000	
SN74AUC1GU04YEAR	296-14019-1-ND	Single Inverter Gate	5-DSBGA	.96	.72	.54
SN74AUC1GU04YEAR	296-14019-2-ND	Single Inverter Gate	5-DSBGA		936.00/3,000	
SN74AUC1GU04YEPR	296-15848-1-ND	Single Inverter Gate	5-DSBGA	.96	.72	.54
SN74AUC1GU04YEPR	296-15848-2-ND	Single Inverter Gate	5-DSBGA		936.00/3,000	
SN74AUC2G00DCTR	296-18565-1-ND	Dual 2-Input Positive NAND Gate	8-SSOP	.66	.50	.38
SN74AUC2G00DCTR	296-18565-2-ND	Dual 2-Input Positive NAND Gate	8-SSOP		645.00/3,000	
SN74AUC2G00DCUR	296-18566-1-ND	Dual 2-Input Positive NAND Gate	8-VSSOP	.66	.50	.38
SN74AUC2G00DCUR	296-18566-2-ND	Dual 2-Input Positive NAND Gate	8-VSSOP		645.00/3,000	
SN74AUC2G00YEPR	296-18567-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.90	.75	.60
SN74AUC2G00YEPR	296-18567-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA		1170.00/3,000	
SN74AUC2G00YZPR	296-18568-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.68	.51	.39
SN74AUC2G00YZPR	296-18568-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA		663.00/3,000	
SN74AUC2G02DCTR	296-18569-1-ND	Dual 2-Input Positive NOR Gate	8-SSOP	.66	.50	.38
SN74AUC2G02DCTR	296-18569-2-ND	Dual 2-Input Positive NOR Gate	8-SSOP		645.00/3,000	
SN74AUC2G02DCUR	296-18570-1-ND	Dual 2-Input Positive NOR Gate	8-VSSOP	.66	.50	.38

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUC2G02DCUR	296-18570-2-ND	Dual 2-Input Positive NOR Gate	8-VSSOP	645.00/3,000		
SN74AUC2G02YEPR	296-18571-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.90	.75	.60
SN74AUC2G02YEPR	296-18571-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	1170.00/3,000		
SN74AUC2G02YZPR	296-18572-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.68	.51	.39
SN74AUC2G02YZPR	296-18572-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	663.00/3,000		
SN74AUC2G04DBVR	296-18573-1-ND	Dual Inverter Gate	SOT-23-6	.52	.39	.30
SN74AUC2G04DBVR	296-18573-2-ND	Dual Inverter Gate	SOT-23-6	507.00/3,000		
SN74AUC2G04DCKR	296-16688-1-ND	Dual Inverter Gate	SC70-6	.52	.39	.30
SN74AUC2G04DCKR	296-16688-2-ND	Dual Inverter Gate	SC70-6	507.00/3,000		
SN74AUC2G04YEPR	296-18574-1-ND	Dual Inverter Gate	6-DSBGA	.90	.75	.60
SN74AUC2G04YEPR	296-18574-2-ND	Dual Inverter Gate	6-DSBGA	1170.00/3,000		
SN74AUC2G06DBVR	296-18575-1-ND	Dual Inverter Buffer/Driver	SOT-23-6	.52	.39	.30
SN74AUC2G06DBVR	296-18575-2-ND	Dual Inverter Buffer/Driver	SOT-23-6	507.00/3,000		
SN74AUC2G06DCKR	296-17052-1-ND	Dual Inverter Buffer/Driver with OD Output	SC-70	.52	.39	.30
SN74AUC2G06DCKR	296-17052-2-ND	Dual Inverter Buffer/Driver with OD Output	SC-70	507.00/3,000		
SN74AUC2G06YEPR	296-18576-1-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	.90	.75	.60
SN74AUC2G06YEPR	296-18576-2-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	1170.00/3,000		
SN74AUC2G06YZPR	296-18577-1-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	.68	.51	.39
SN74AUC2G06YZPR	296-18577-2-ND	Dual Inverter Buffer/Driver with OD Output	6-DSBGA	663.00/3,000		
SN74AUC2G07DBVR	296-15736-1-ND	Dual Buffer/Driver with OD Output	SOT-23-6	.52	.39	.30
SN74AUC2G07DBVR	296-15736-2-ND	Dual Buffer/Driver with OD Output	SOT-23-6	507.00/3,000		
SN74AUC2G07DCKR	296-18763-1-ND	Dual Buffer/Driver with OD Output	SOT-23-6	.52	.39	.30
SN74AUC2G07DCKR	296-18763-2-ND	Dual Buffer/Driver with OD Output	SOT-23-6	507.00/3,000		
SN74AUC2G07YEPR	296-18772-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	.90	.75	.60
SN74AUC2G07YEPR	296-18772-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	1170.00/3,000		
SN74AUC2G07YZPR	296-18774-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	.68	.51	.39
SN74AUC2G07YZPR	296-18774-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	663.00/3,000		
SN74AUC2G08DCTR	296-18794-1-ND	Dual 2-Input Positive AND Gate	8-SSOP	.66	.50	.38
SN74AUC2G08DCTR	296-18794-2-ND	Dual 2-Input Positive AND Gate	8-SSOP	645.00/3,000		
SN74AUC2G08DCUR	296-18823-1-ND	Dual 2-Input Positive AND Gate	8-VSSOP	.66	.50	.38
SN74AUC2G08DCUR	296-18823-2-ND	Dual 2-Input Positive AND Gate	8-VSSOP	645.00/3,000		
SN74AUC2G08YEPR	296-18863-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.90	.75	.60
SN74AUC2G08YEPR	296-18863-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	1170.00/3,000		
SN74AUC2G08YZPR	296-17833-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.68	.51	.39
SN74AUC2G08YZPR	296-17833-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	663.00/3,000		
SN74AUC2G32DCTR	296-18886-1-ND	Dual 2-Input Positive OR Gate	8-SSOP	.66	.50	.38
SN74AUC2G32DCTR	296-18886-2-ND	Dual 2-Input Positive OR Gate	8-SSOP	645.00/3,000		
SN74AUC2G32DCUR	296-18887-1-ND	Dual 2-Input Positive OR Gate	8-VSSOP	.66	.50	.38
SN74AUC2G32DCUR	296-18887-2-ND	Dual 2-Input Positive OR Gate	8-VSSOP	645.00/3,000		
SN74AUC2G32YEPR	296-18896-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.90	.75	.60
SN74AUC2G32YEPR	296-18896-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	1170.00/3,000		
SN74AUC2G34DBVR	296-17231-1-ND	Dual Buffer Gate	SOT-23-6	.52	.39	.30
SN74AUC2G34DBVR	296-17231-2-ND	Dual Buffer Gate	SOT-23-6	507.00/3,000		
SN74AUC2G34DCKR	296-18939-1-ND	Dual Buffer Gate	SC70-6	.52	.39	.30
SN74AUC2G34DCKR	296-18939-2-ND	Dual Buffer Gate	SC70-6	507.00/3,000		
SN74AUC2G34DRLR	296-18648-1-ND	Dual Buffer Gate	6-SOP	.66	.50	.38
SN74AUC2G34DRLR	296-18648-2-ND	Dual Buffer Gate	6-SOP	860.00/4,000		
SN74AUC2G34YEPR	296-19050-1-ND	Dual Buffer Gate	6-DSBGA	.90	.75	.60
SN74AUC2G34YEPR	296-19050-2-ND	Dual Buffer Gate	6-DSBGA	1170.00/3,000		
SN74AUC2G34YZPR	296-15981-1-ND	Dual Buffer Gate	6-DSBGA	.68	.51	.39
SN74AUC2G34YZPR	296-15981-2-ND	Dual Buffer Gate	6-DSBGA	226.00/1,000		
SN74AUC2G53DCTR	296-16634-1-ND	SPDT Analog Switch / 2:1 Analog Mux/Demux	8-SSOP	.66	.50	.38
SN74AUC2G53DCTR	296-16634-2-ND	SPDT Analog Switch / 2:1 Analog Mux/Demux	8-SSOP	645.00/3,000		
SN74AUC2G53DCUR	296-19051-1-ND	SPDT Analog Switch / 2:1 Analog Mux/Demux	8-VSSOP	.66	.50	.38
SN74AUC2G53DCUR	296-19051-2-ND	SPDT Analog Switch / 2:1 Analog Mux/Demux	8-VSSOP	645.00/3,000		
SN74AUC2G53YZPR	296-19052-1-ND	SPDT Analog Switch / 2:1 Analog Mux/Demux	8-DSBGA	.68	.51	.39
SN74AUC2G53YZPR	296-19052-2-ND	SPDT Analog Switch / 2:1 Analog Mux/Demux	8-DSBGA	663.00/3,000		
SN74AUC2G66DCTR	296-19053-1-ND	Dual Bilateral Analog Switch	8-SSOP	.66	.50	.38
SN74AUC2G66DCTR	296-19053-2-ND	Dual Bilateral Analog Switch	8-SSOP	645.00/3,000		
SN74AUC2G66DCUR	296-19054-1-ND	Dual Bilateral Analog Switch	8-VSSOP	.66	.50	.38
SN74AUC2G66DCUR	296-19054-2-ND	Dual Bilateral Analog Switch	8-VSSOP	645.00/3,000		
SN74AUC2G66YZPR	296-19055-1-ND	Dual Bilateral Analog Switch	8-DSBGA	.68	.51	.39
SN74AUC2G66YZPR	296-19055-2-ND	Dual Bilateral Analog Switch	8-DSBGA	663.00/3,000		
SN74AUC2G79DCTR	296-19056-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-SSOP	.66	.50	.38
SN74AUC2G79DCTR	296-19056-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-SSOP	645.00/3,000		
SN74AUC2G79DCUR	296-19057-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-VSSOP	.66	.50	.38
SN74AUC2G79DCUR	296-19057-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-VSSOP	645.00/3,000		
SN74AUC2G79YEPR	296-16640-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.90	.75	.60
SN74AUC2G79YEPR	296-16640-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1170.00/3,000		
SN74AUC2G79YZPR	296-16641-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.68	.51	.39
SN74AUC2G79YZPR	296-16641-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	663.00/3,000		
SN74AUC2G80DCTR	296-19058-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-SSOP	.66	.50	.38
SN74AUC2G80DCTR	296-19058-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-SSOP	645.00/3,000		
SN74AUC2G80DCUR	296-19059-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-VSSOP	.66	.50	.38
SN74AUC2G80DCUR	296-19059-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-VSSOP	645.00/3,000		
SN74AUC2G80YEPR	296-16817-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.90	.75	.60
SN74AUC2G80YEPR	296-16817-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	1170.00/3,000		
SN74AUC2G80YZPR	296-16818-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.68	.51	.39
SN74AUC2G80YZPR	296-16818-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	663.00/3,000		
SN74AUC2G86DCTR	296-19060-1-ND	Dual 2-Input Exclusive OR Gate	8-SSOP	.66	.50	.38
SN74AUC2G86DCTR	296-19060-2-ND	Dual 2-Input Exclusive OR Gate	8-SSOP	645.00/3,000		
SN74AUC2G86DCUR	296-16836-1-ND	Dual 2-Input Exclusive OR Gate	8-VSSOP	.66	.50	.38
SN74AUC2G86DCUR	296-16836-2-ND	Dual 2-Input Exclusive OR Gate	8-VSSOP	645.00/3,000		
SN74AUC2G86YEPR	296-19061-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	.90	.75	.60
SN74AUC2G86YEPR	296-19061-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	1170.00/3,000		
SN74AUC2G86YZPR	296-19062-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	.68	.51	.39
SN74AUC2G86YZPR	296-19062-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	663.00/3,000		
SN74AUC2G125DCTR	296-18881-1-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	.66	.50	.38
SN74AUC2G125DCTR	296-18881-2-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	645.00/3,000		
SN74AUC2G125DCUR	296-17925-1-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	.66	.50	.38
SN74AUC2G125DCUR	296-17925-2-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	645.00/3,000		
SN74AUC2G125YZPR	296-16800-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.68	.51	.39
SN74AUC2G125YZPR	296-16800-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	663.00/3,000		
SN74AUC2G126DCTR	296-18885-1-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	.66	.50	.38
SN74AUC2G126DCTR	296-18885-2-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	645.00/3,000		
SN74AUC2G126DCUR	296-18970-1-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	.66	.50	.38
SN74AUC2G126DCUR	296-18970-2-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	645.00/3,000		
SN74AUC2G126YZPR	296-16801-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.68	.51	.39
SN74AUC2G126YZPR	296-16801-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	663.00/3,000		
SN74AUC2G240DCTR	296-19038-1-ND	Tri-State Dual Buffer/Driver	8-SSOP	.66	.50	.38
SN74AUC2G240DCTR	296-19038-2-ND	Tri-State Dual Buffer/Driver	8-SSOP	645.00/3,000		
SN74AUC2G240DCUR	296-18882-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.66	.50	.38
SN74AUC2G240DCUR	296-18882-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP	645.00/3,000		
SN74AUC2G240YZPR	296-16802-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.68	.51	.39
SN74AUC2G240YZPR	296-16802-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	663.00/3,000		
SN74AUC2G241DCTR	296-18883-1-ND	Tri-State Dual Buffer/Driver	8-SSOP	.66	.50	.38
SN74AUC2G241DCTR	296-18883-2-ND	Tri-State Dual Buffer/Driver	8-SSOP	645.00/3,000		
SN74AUC2G241DCUR	296-18884-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.66	.50	.38
SN74AUC2G241DCUR	296-18884-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP	645.00/3,000		
SN74AUC2G241YEPR	296-16803-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.90	.75	.60
SN74AUC2G241YEPR	296-16803-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA	1170.00/3,000		
SN74AUC2GU04DBVR	296-19063-1-ND	Dual Inverter Gate	SOT-23-6	.52	.39	.30
SN74AUC2GU04DBVR	296-19063-2-ND	Dual Inverter Gate	SOT-23-6	507.00/3,000		
SN74AUC2GU04YZPR	296-19064-1-ND	Dual Inverter Gate	6-DSBGA	.68	.51	.39
SN74AUC2GU04YZPR	296-19064-2-ND	Dual Inverter Gate	6-DSBGA	663.00/3,000		
SN74AUC00RGYR	296-16749-1-ND	Quad 2-Input Positive NAND Gate	14-QFN	.88	.66	.50
SN74AUC00RGYR	296-16749-2-ND	Quad 2-Input Positive NAND Gate	14-QFN	293.00/1,000		
SN74AUC02RGYR	296-16750-1-ND	Quad 2-Input Positive NOR Gate	14-QFN	.88	.66	.50
SN74AUC02RGYR	296-16750-2-ND	Quad 2-Input Positive NOR Gate	14-QFN	293.00/1,000		
SN74AUC04RGYR	296-16751-1-ND	Hex Inverter	14-QFN	.88	.66	.50
SN74AUC04RGYR	296-16751-2-ND	Hex Inverter	14-QFN	293.00/1,000		
SN74AUC06RGYR	296-16752-1-ND	Hex Inverter Buffer/Driver w/OD Output	14-QFN	.88	.66	.50
SN74AUC06RGYR	296-16752-2-ND	Hex Inverter Buffer/Driver w/OD Output	14-QFN	293.00/1,000		
SN74AUC07RGYR	296-17007-1-ND	Hex Buffer/Driver with OD Output	14-QFN	.88	.66	.50
SN74AUC07RGYR	296-17007-2-ND	Hex Buffer/Driver with OD Output	14-QFN	293.00/1,000		
SN74AUC08RGYR	296-16753-1-ND	Quad 2-Input Positive AND Gate	14-QFN	.88	.66	.50
SN74AUC08RGYR	296-16753-2-ND	Quad 2-Input Positive AND Gate	14-QFN	293.00/1,000		
SN74AUC14RGYR	296-18265-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.88	.66	.50
SN74AUC14RGYR	296-18265-2-ND	Hex Schmitt-Trigger Inverter	14-QFN	293.00/1,000		
SN74AUC17RGYR	296-18544-1-ND	Hex Schmitt-Trigger Buffer	14-QFN	.88	.66	.50
SN74AUC17RGYR	296-18544-2-ND	Hex Schmitt-Trigger Buffer	14-QFN	293.00/1,000		
SN74AUC32RGYR	296-16754-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.88	.66	.50
SN74AUC32RGYR	296-16754-2-ND	Quad 2-Input Positive OR Gate	14-QFN	293.00/1,000		
SN74AUC34RGYR	296-19066-1-ND	Hex Buffer Gate	14-QFN	.88	.66	.50
SN74AUC34RGYR	296-19066-2-ND	Hex Buffer Gate	14-QFN	293.00/1,000		
SN74AUC74RGYR	296-17820-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-QFN	.88	.66	.50
SN74AUC74RGYR	296-17820-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	14-QFN	293.00/1,000		
SN74AUC126RGYR	296-18543-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.99	.83	.66
SN74AUC126RGYR	296-18543-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN	439.00/1,000		
SN74AUC240RGYR	296-15436-1-ND	Tri-State Octal Buffer/Driver	20-QFN	1.44	1.20	.96
SN74AUC240RGYR	296-15436-2-ND	Tri-State Octal Buffer/Driver	20-QFN	638.00/1,000		
SN74AUC244RGYR	296-15437-1-ND	Tri-State Octal Buffer/Driver	20-QFN	1.44	1.20	.96
SN74AUC244RGYR	296-15437-2-ND	Tri-State Octal Buffer/Driver	20-QFN	638.00/1,000		
SN74AUC245GQNR	296-17032-1-ND	Tri-State Octal Bus Transceiver	20-VFBGA	1.80	1.44	1.08
SN74AUC245GQNR	296-17032-2-ND	Tri-State Octal Bus Transceiver	20-VFBGA	936.00/1,000		
SN74AUC245RGYR	296-15438-1-ND	Tri-State Octal Bus Transceiver	20-QFN	1.44	1.20	.96
SN74AUC245RGYR	296-15438-2-ND	Tri-State Octal Bus Transceiver	20-QFN	638.00/1,000		
SN74AUC245ZQNR	296-19284-1-ND	Tri-State Octal Bus Transceiver	20-VFBGA	1.44	1.20	.96
SN74AUC245ZQNR	296-19284-2-ND	Tri-State Octal Bus Transceiver	20-VFBGA	638.00/1,000		
SN74AUC16240DGGR	296-15408-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.13	1.70	1.28
SN74AUC16240DGGR	296-15408-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2210.00/2,000		
SN74AUC16240DGVR	296-15409-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.13	1.70	1.28
SN74AUC16240DGVR	296-15409-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2210.00/2,000		
SN74AUC16240GQLR	296-15410-1-ND	Tri-State 16-Bit Buffer/Driver	48-VFBGA	3.15	2.52	1.96
SN74AUC16240GQLR	296-15410-2-ND	Tri-State 16-Bit Buffer/Driver	48-VFBGA	1785.00/1,000		
SN74AUC16244DGGR	296-15411-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.13	1.70	1.28
SN74AUC16244DGGR	296-15411-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2210.00/2,000		
SN74AUC16244DGVR	296-15412-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.13	1.70	1.28
SN74AUC16244DGVR	296-15412-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2210.00/2,000		
SN74AUC16244ZQLR	296-17031-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	3.72	2.79	2.10
SN74AUC16244ZQLR	296-17031-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1209.00/1,000		
SN74AUC16245DGGR	296-15413-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.13	1.70	1.28
SN74AUC16245DGGR	296-15413-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2210.00/2,000		
SN74AUC16245DGVR	296-15414-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2.13	1.70	1.28
SN74AUC16245DGVR	296-15414-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2210.00/2,000		
SN74AUC16245GQLR	296-15415-1-ND	Tri-State 16-Bit Bus Transceiver	48-VFBGA	3.15	2.52	1.96
SN74AUC16245GQLR	296-15415-2-ND	Tri-State 16-Bit Bus Transceiver	48-VFBGA	1785.00/1,000		
SN74AUC16245ZQLR	296-19283-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.33	1.86	1.40
SN74AUC16245ZQLR	296-19283-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1209.00/1,000		
SN74AUC16373DGVR	296-15417-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	2.13	1.70	1.28
SN74AUC16373DGVR	296-15417-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	2210.00/2,000		
SN74AUC16374DGGR	296-15418-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	2.13	1.70	1.28
SN74AUC16374DGGR	296-15418-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	2210.00/2,000		

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUC16374DGVR	296-15419-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	2.13	1.70	1.28
SN74AUC16374DGVR	296-15419-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	2210.00/2,000		
SN74AUC16374GQLR	296-13919-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	3.15	2.52	1.96
SN74AUC16374GQLR	296-13919-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	1785.00/1,000		
SN74AUC16501DGGR	296-15420-1-ND	Tri-St. 18-Bit Universal Bus Transcvr	56-TSSOP	3.38	2.70	2.10
SN74AUC16501DGGR	296-15420-2-ND	Tri-St. 18-Bit Universal Bus Transcvr	56-TSSOP	3826.00/2,000		
SN74AUC16501DGVR	296-15421-1-ND	Tri-St. 18-Bit Universal Bus Transcvr	56-TVSOP	3.38	2.70	2.10
SN74AUC16501DGVR	296-15421-2-ND	Tri-St. 18-Bit Universal Bus Transcvr	56-TVSOP	3826.00/2,000		
SN74AUC32244GKER	296-15439-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	4.28	3.42	2.66
SN74AUC32244GKER	296-15439-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2423.00/1,000		
SN74AUC32245GKER	296-13610-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	4.28	3.42	2.66
SN74AUC32245GKER	296-13610-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2423.00/1,000		
SN74AUC32374GKER	296-19065-1-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	4.28	3.42	2.66
SN74AUC32374GKER	296-19065-2-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	2423.00/1,000		

AUCH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUCH240RGYR	296-15443-1-ND	Tri-State Octal Buffer/Driver	20-QFN	1.32	1.10	.88
SN74AUCH240RGYR	296-15443-2-ND	Tri-State Octal Buffer/Driver	20-QFN	585.00/1,000		
SN74AUCH244RGYR	296-19068-1-ND	Tri-State Octal Buffer/Driver	20-QFN	1.32	1.10	.88
SN74AUCH244RGYR	296-19068-2-ND	Tri-State Octal Buffer/Driver	20-QFN	585.00/1,000		
SN74AUCH245RGYR	296-15444-1-ND	Tri-State Octal Bus Transceiver	20-QFN	1.32	1.10	.88
SN74AUCH245RGYR	296-15444-2-ND	Tri-State Octal Bus Transceiver	20-QFN	585.00/1,000		
SN74AUCH16244DGGR	296-15440-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.13	1.70	1.28
SN74AUCH16244DGGR	296-15440-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2210.00/2,000		
SN74AUCH16244DGVR	296-15441-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.13	1.70	1.28
SN74AUCH16244DGVR	296-15441-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2210.00/2,000		
SN74AUCH16244GQLR	296-15442-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	3.15	2.52	1.96
SN74AUCH16244GQLR	296-15442-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1785.00/1,000		
SN74AUCH16374DGGR	296-17625-1-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TSSOP	2.13	1.70	1.28
SN74AUCH16374DGGR	296-17625-2-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TSSOP	2210.00/2,000		
SN74AUCH16374DGVR	296-19067-1-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TVSOP	2.13	1.70	1.28
SN74AUCH16374DGVR	296-19067-2-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	48-TVSOP	2210.00/2,000		
SN74AUCH16374GQLR	296-15251-1-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	56-VFBGA	3.15	2.52	1.96
SN74AUCH16374GQLR	296-15251-2-ND	Tri-St. 16-Bit Edge-Trigg. D-Type F/F	56-VFBGA	1785.00/1,000		
SN74AUCH32244GKER	296-15445-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	4.28	3.42	2.66
SN74AUCH32244GKER	296-15445-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2423.00/1,000		
SN74AUCH32374GKER	296-17836-1-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	4.28	3.42	2.66
SN74AUCH32374GKER	296-17836-2-ND	Tri-State 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	2423.00/1,000		

AUCU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUCU04RGYR	296-19069-1-ND	Hex Inverter	14-QFN	.88	.66	.50
SN74AUCU04RGYR	296-19069-2-ND	Hex Inverter	14-QFN	293.00/1,000		

AUP Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUP1G00DBVR	296-18581-1-ND	Low Power Single 2-Input Positive NAND Gate	SOT-23-5	.50	.41	.28
SN74AUP1G00DBVR	296-18581-2-ND	Low Power Single 2-Input Positive NAND Gate	SOT-23-5	393.00/3,000		
SN74AUP1G00DCKR	296-18200-1-ND	Low Power Single 2-Input Positive NAND Gate	SC70-5	.50	.41	.28
SN74AUP1G00DCKR	296-18200-2-ND	Low Power Single 2-Input Positive NAND Gate	SC70-5	393.00/3,000		
SN74AUP1G00DRLR	296-18712-1-ND	Low Power Single 2-Input Positive NAND Gate	SOT-553	.43	.34	.26
SN74AUP1G00DRLR	296-18712-2-ND	Low Power Single 2-Input Positive NAND Gate	SOT-553	460.00/4,000		
SN74AUP1G00YZPR	296-17898-1-ND	Low Power Single 2-Input Positive NAND Gate	5-WCSP	.48	.36	.27
SN74AUP1G00YZPR	296-17898-2-ND	Low Power Single 2-Input Positive NAND Gate	5-WCSP	468.00/3,000		
SN74AUP1G02DBVR	296-19070-1-ND	Low Power Single 2-Input Positive NOR Gate	SOT-23-5	.50	.41	.28
SN74AUP1G02DBVR	296-19070-2-ND	Low Power Single 2-Input Positive NOR Gate	SOT-23-5	393.00/3,000		
SN74AUP1G02DRLR	296-18649-1-ND	Low Power Single 2-Input Positive NOR Gate	SOT-553	.43	.34	.26
SN74AUP1G02DRLR	296-18649-2-ND	Low Power Single 2-Input Positive NOR Gate	SOT-553	460.00/4,000		
SN74AUP1G04DBVR	296-19071-1-ND	Low Power Single Inverter Gate	SOT-23-5	.50	.41	.28
SN74AUP1G04DBVR	296-19071-2-ND	Low Power Single Inverter Gate	SOT-23-5	393.00/3,000		
SN74AUP1G04DCKR	296-19072-1-ND	Low Power Single Inverter Gate	SC70-5	.50	.41	.28
SN74AUP1G04DCKR	296-19072-2-ND	Low Power Single Inverter Gate	SC70-5	393.00/3,000		
SN74AUP1G04DRLR	296-19285-1-ND	Low Power Single Inverter Gate	5-SOP	.43	.34	.26
SN74AUP1G04DRLR	296-19285-2-ND	Low Power Single Inverter Gate	5-SOP	460.00/4,000		
SN74AUP1G06DBVR	296-17561-1-ND	Low Power Single Inverter Buffer/Driver	SOT-23-5	.40	.32	.24
SN74AUP1G06DBVR	296-17561-2-ND	Low Power Single Inverter Buffer/Driver	SOT-23-5	324.00/3,000		
SN74AUP1G06DCKR	296-17562-1-ND	Low Power Single Inverter Buffer/Driver	SC70-5	.50	.41	.28
SN74AUP1G06DCKR	296-17562-2-ND	Low Power Single Inverter Buffer/Driver	SC70-5	393.00/3,000		
SN74AUP1G07DBVR	296-19073-1-ND	Low Power Single Buffer/Driver	SOT-23-5	.40	.32	.24
SN74AUP1G07DBVR	296-19073-2-ND	Low Power Single Buffer/Driver	SOT-23-5	324.00/3,000		
SN74AUP1G07DCKR	296-18256-1-ND	Low Power Single Buffer/Driver	SC70-5	.50	.41	.28
SN74AUP1G07DCKR	296-18256-2-ND	Low Power Single Buffer/Driver	SC70-5	393.00/3,000		
SN74AUP1G08DBVR	296-19074-1-ND	Low Power 2-Input Positive AND Gate	SOT-23-5	.50	.41	.28
SN74AUP1G08DBVR	296-19074-2-ND	Low Power 2-Input Positive AND Gate	SOT-23-5	393.00/3,000		
SN74AUP1G08DCKR	296-19075-1-ND	Low Power 2-Input Positive AND Gate	SC70-5	.50	.41	.28
SN74AUP1G08DCKR	296-19075-2-ND	Low Power 2-Input Positive AND Gate	SC70-5	393.00/3,000		
SN74AUP1G08DRLR	296-18650-1-ND	Low Power 2-Input Positive AND Gate	SOT-553	.43	.34	.26
SN74AUP1G08DRLR	296-18650-2-ND	Low Power 2-InPut Positive AND Gate	SOT-553	460.00/4,000		
SN74AUP1G08YZPR	296-17366-1-ND	Low Power 2-Input Positive AND Gate	5-DSBGA	.48	.36	.27
SN74AUP1G08YZPR	296-17366-2-ND	Low Power 2-Input Positive AND Gate	5-DSBGA	468.00/3,000		
SN74AUP1G14DBVR	296-18213-1-ND	Low Power Single Schmitt-Trigger Inverter	SOT-23-5	.50	.41	.28
SN74AUP1G14DBVR	296-18213-2-ND	Low Power Single Schmitt-Trigger Inverter	SOT-23-5	393.00/3,000		
SN74AUP1G14DCKR	296-19076-1-ND	Low Power Single Schmitt-Trigger Inverter	SC70-5	.50	.41	.28
SN74AUP1G14DCKR	296-19076-2-ND	Low Power Single Schmitt-Trigger Inverter	SC70-5	393.00/3,000		
SN74AUP1G14DRLR	296-18314-1-ND	Low Power Single Schmitt-Trigger Inverter	SOT-553	.43	.34	.26
SN74AUP1G14DRLR	296-18314-2-ND	Low Power Single Schmitt-Trigger Inverter	SOT-553	460.00/4,000		
SN74AUP1G17DBVR	296-19077-1-ND	Low Power Single Schmitt-Trigger Buffer	SOT-23-5	.50	.41	.28
SN74AUP1G17DBVR	296-19077-2-ND	Low Power Single Schmitt-Trigger Buffer	SOT-23-5	393.00/3,000		
SN74AUP1G17DCKR	296-18209-1-ND	Low Power Single Schmitt-Trigger Buffer	SC70-5	.50	.41	.28
SN74AUP1G17DCKR	296-18209-2-ND	Low Power Single Schmitt-Trigger Buffer	SC70-5	393.00/3,000		
SN74AUP1G17DRLR	296-18295-1-ND	Low Power Single Schmitt-Trigger Buffer	SOT-553	.43	.34	.26
SN74AUP1G17DRLR	296-18295-2-ND	Low Power Single Schmitt-Trigger Buffer	SOT-553	460.00/4,000		
SN74AUP1G17YZPR	296-19078-1-ND	Low Power Single Schmitt-Trigger Buffer	5-DSBGA	.48	.36	.27
SN74AUP1G17YZPR	296-19078-2-ND	Low Power Single Schmitt-Trigger Buffer	5-DSBGA	468.00/3,000		
SN74AUP1G32DBVR	296-19079-1-ND	Low Power Single 2-Input Positive OR Gate	SOT-23-5	.50	.41	.28
SN74AUP1G32DBVR	296-19079-2-ND	Low Power Single 2-Input Positive OR Gate	SOT-23-5	393.00/3,000		
SN74AUP1G32DCKR	296-18714-1-ND	Low Power Single 2-Input Positive OR Gate	SC70-5	.50	.41	.28
SN74AUP1G32DCKR	296-18714-2-ND	Low Power Single 2-Input Positive OR Gate	SC70-5	393.00/3,000		
SN74AUP1G32DRLR	296-18315-1-ND	Low Power Single 2-Input Positive OR Gate	SOT-553	.43	.34	.26
SN74AUP1G32DRLR	296-18315-2-ND	Low Power Single 2-Input Positive OR Gate	SOT-553	460.00/4,000		
SN74AUP1G34DBVR	296-19080-1-ND	Low Power Single Buffer Gate	SOT-23-5	.50	.41	.28
SN74AUP1G34DBVR	296-19080-2-ND	Low Power Single Buffer Gate	SOT-23-5	393.00/3,000		
SN74AUP1G34DCKR	296-19081-1-ND	Low Power Single Buffer Gate	SC70-5	.50	.41	.28
SN74AUP1G34DCKR	296-19081-2-ND	Low Power Single Buffer Gate	SC70-5	393.00/3,000		
SN74AUP1G34DRLR	296-18715-1-ND	Low Power Single Buffer Gate	SOT-553	.43	.34	.26
SN74AUP1G34DRLR	296-18715-2-ND	Low Power Single Buffer Gate	SOT-553	460.00/4,000		
SN74AUP1G57DBVR	296-19082-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.45	.36	.27
SN74AUP1G57DBVR	296-19082-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	366.00/3,000		
SN74AUP1G57DCKR	296-19083-1-ND	LP Configurable Multiple Function Gate	SC70-6	.45	.36	.27
SN74AUP1G57DCKR	296-19083-2-ND	LP Configurable Multiple Function Gate	SC70-6	366.00/3,000		
SN74AUP1G57DRLR	296-18716-1-ND	LP Configurable Multiple Function Gate	SOT-553	.45	.36	.27
SN74AUP1G57DRLR	296-18716-2-ND	LP Configurable Multiple Function Gate	SOT-553	488.00/4,000		
SN74AUP1G57YZPR	296-17367-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.48	.36	.27
SN74AUP1G57YZPR	296-17367-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	468.00/3,000		
SN74AUP1G58DBVR	296-16819-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.45	.36	.27
SN74AUP1G58DBVR	296-16819-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	366.00/3,000		
SN74AUP1G58DCKR	296-16820-1-ND	LP Configurable Multiple Function Gate	SC70-6	.45	.36	.27
SN74AUP1G58DCKR	296-16820-2-ND	LP Configurable Multiple Function Gate	SC70-6	366.00/3,000		
SN74AUP1G58DRLR	296-18612-1-ND	LP Configurable Multiple Function Gate	6-SOP	.45	.36	.27
SN74AUP1G58DRLR	296-18612-2-ND	LP Configurable Multiple Function Gate	6-SOP	488.00/4,000		
SN74AUP1G58YZPR	296-17368-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.48	.36	.27
SN74AUP1G58YZPR	296-17368-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	468.00/3,000		
SN74AUP1G79DBVR	296-17659-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	.40	.32	.24
SN74AUP1G79DBVR	296-17659-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	324.00/3,000		
SN74AUP1G79DCKR	296-17660-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	.40	.32	.24
SN74AUP1G79DCKR	296-17660-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	324.00/3,000		
SN74AUP1G79DRLR	296-19594-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop ***NEW!***	SOT-553	.45	.36	.27
SN74AUP1G79DRLR	296-19594-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop ***NEW!***	SOT-553	488.00/4,000		
SN74AUP1G80DBVR	296-17841-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	.40	.32	.24
SN74AUP1G80DBVR	296-17841-2-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-23-5	324.00/3,000		
SN74AUP1G80DCKR	296-19084-1-ND	LP Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	.40	.32	.24
SN74AUP1G80DCKR	296-19084-2-ND	LP Single Positive-Edge-Triggered D-Type FFlip-Flop	SC70-5	324.00/3,000		
SN74AUP1G97DBVR	296-19085-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.45	.36	.27
SN74AUP1G97DBVR	296-19085-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	5064.00/3,000		
SN74AUP1G97DCKR	296-19086-1-ND	LP Configurable Multiple Function Gate	SC70-6	.45	.36	.27
SN74AUP1G97DCKR	296-19086-2-ND	LP Configurable Multiple Function Gate	SC70-6	366.00/3,000		
SN74AUP1G97DRLR	296-18316-1-ND	LP Configurable Multiple Function Gate	SOT-553	.45	.36	.27
SN74AUP1G97DRLR	296-18316-2-ND	LP Configurable Multiple Function Gate	SOT-553	488.00/4,000		
SN74AUP1G97YZPR	296-17369-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.48	.36	.27
SN74AUP1G97YZPR	296-17369-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	468.00/3,000		
SN74AUP1G98DBVR	296-19087-1-ND	LP Configurable Multiple Function Gate	SOT-23-6	.45	.36	.27
SN74AUP1G98DBVR	296-19087-2-ND	LP Configurable Multiple Function Gate	SOT-23-6	366.00/3,000		
SN74AUP1G98DCKR	296-19088-1-ND	LP Configurable Multiple Function Gate	SC70-6	.45	.36	.27
SN74AUP1G98DCKR	296-19088-2-ND	LP Configurable Multiple Function Gate	SC70-6	366.00/3,000		
SN74AUP1G98DRLR	296-18651-1-ND	LP Configurable Multiple Function Gate	SOT-553	.45	.36	.27
SN74AUP1G98DRLR	296-18651-2-ND	LP Configurable Multiple Function Gate	SOT-553	488.00/4,000		
SN74AUP1G98YZPR	296-17370-1-ND	LP Configurable Multiple Function Gate	6-DSBGA	.48	.36	.27
SN74AUP1G98YZPR	296-17370-2-ND	LP Configurable Multiple Function Gate	6-DSBGA	468.00/3,000		
SN74AUP1G99DCTR	296-19089-1-ND	Tri-State Low Power Ultra-Config. Multiple Function Gate	8-SSOP	.56	.42	.32
SN74AUP1G99DCTR	296-19089-2-ND	Tri-State Low Power Ultra-Config. Multiple Function Gate	8-SSOP	546.00/3,000		

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★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74AUP1G99DCUR	296-19090-1-ND	Tri-State Low Power Ultra-Config. Multiple Function Gate	8-VSSOP	.56	.42	.32
SN74AUP1G99DCUR	296-19090-2-ND	Tri-State Low Power Ultra-Config. Multiple Function Gate	8-VSSOP	546.00/3,000		
SN74AUP1G125DRLR	296-18713-1-ND	Tri-State Low Power Single Bus Buffer Gate	SOT-553	.43	.34	.26
SN74AUP1G125DRLR	296-18713-2-ND	Tri-State Low Power Single Bus Buffer Gate	SOT-553	460.00/4,000		
SN74AUP1G126DBVR	296-18005-1-ND	Tri-State, Low Power, Single Bus Buffer Gate	SOT-23-5	.50	.41	.28
SN74AUP1G126DBVR	296-18005-2-ND	Tri-State, Low Power, Single Bus Buffer Gate	SOT-23-5	393.00/3,000		
SN74AUP1G126DCKR	296-18006-1-ND	Tri-State, Low Power, Single Bus Buffer Gate	SC70-5	.50	.41	.28
SN74AUP1G126DCKR	296-18006-2-ND	Tri-State, Low Power, Single Bus Buffer Gate	SC70-5	393.00/3,000		
SN74AUP1G126DRLR	296-18603-1-ND	Tri-State, Low Power, Single Bus Buffer Gate	SOT-553	.43	.34	.26
SN74AUP1G126DRLR	296-18603-2-ND	Tri-State, Low Power, Single Bus Buffer Gate	SOT-553	460.00/4,000		
SN74AUP1G240DBVR	296-17917-1-ND	Tri-State, Low Power, Single Buffer/Driver	SOT-23-5	.40	.32	.24
SN74AUP1G240DBVR	296-17917-2-ND	Tri-State, Low Power, Single Buffer/Driver	SOT-23-5	324.00/3,000		
SN74AUP1G240DCKR	296-17918-1-ND	Tri-State, Low Power, Single Buffer/Driver	SC70-5	.40	.32	.24
SN74AUP1G240DCKR	296-17918-2-ND	Tri-State, Low Power, Single Buffer/Driver	SC70-5	324.00/3,000		
SN74AUP1T57DBVR	296-17524-1-ND	Single Supply Voltage Translator	SOT-23-6	.55	.44	.33
SN74AUP1T57DBVR	296-17524-2-ND	Single Supply Voltage Translator	SOT-23-6	447.00/3,000		
SN74AUP1T57DCKR	296-17525-1-ND	Single Supply Voltage Translator	SC70-6	.55	.44	.33
SN74AUP1T57DCKR	296-17525-2-ND	Single Supply Voltage Translator	SC70-6	447.00/3,000		
SN74AUP1T58DBVR	296-17526-1-ND	Single Supply Voltage Translator	SOT-23-6	.55	.44	.33
SN74AUP1T58DBVR	296-17526-2-ND	Single Supply Voltage Translator	SOT-23-6	447.00/3,000		
SN74AUP1T58DCKR	296-17527-1-ND	Single Supply Voltage Translator	SC70-6	.55	.44	.33
SN74AUP1T58DCKR	296-17527-2-ND	Single Supply Voltage Translator	SC70-6	447.00/3,000		
SN74AUP1T97DBVR	296-17563-1-ND	Single Supply Voltage Level Translator	SOT-23-6	.55	.44	.33
SN74AUP1T97DBVR	296-17563-2-ND	Single Supply Voltage Level Translator	SOT-23-6	447.00/3,000		
SN74AUP1T97DCKR	296-17564-1-ND	Single Supply Voltage Level Translator	SC70-6	.55	.44	.33
SN74AUP1T97DCKR	296-17564-2-ND	Single Supply Voltage Level Translator	SC70-6	447.00/3,000		
SN74AUP1T97YZPR	296-17899-1-ND	Single Supply Voltage Level Translator	6-WCSP	.72	.54	.41
SN74AUP1T97YZPR	296-17899-2-ND	Single Supply Voltage Level Translator	6-WCSP	702.00/3,000		
SN74AUP1T98DBVR	296-17528-1-ND	Single Supply Voltage Translator	SOT-23-6	.55	.44	.33
SN74AUP1T98DBVR	296-17528-2-ND	Single Supply Voltage Translator	SOT-23-6	447.00/3,000		
SN74AUP1T98DCKR	296-17529-1-ND	Single Supply Voltage Translator	SC70-6	.55	.44	.33
SN74AUP1T98DCKR	296-17529-2-ND	Single Supply Voltage Translator	SC70-6	447.00/3,000		
PCA9306DCTR	296-18509-1-ND	Dual Bidirectional I2C Bus AND SMBus Voltage Level Translator	8-SSOP	.90	.75	.60
PCA9306DCTR	296-18509-2-ND	Dual Bidirectional I2C Bus AND SMBus Voltage Level Translator	8-SSOP	1170.00/3,000		

AVC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AVCA164245ZQLR	296-17203-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	6.53	5.22	4.06
74AVCA164245ZQLR	296-17203-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	3698.00/1,000		
74AVCAH164245ZQLR	296-17204-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	3.96	3.17	2.47
74AVCAH164245ZQLR	296-17204-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	2244.00/1,000		
74AVCB164245ZQLR	296-18284-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	4.55	3.64	2.83
74AVCB164245ZQLR	296-18284-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	2576.00/1,000		
74AVCB324245ZKER	296-17788-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	4.95	3.96	3.08
74AVCB324245ZKER	296-17788-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	2805.00/1,000		
74AVCBH324245ZKER	296-18351-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	4.95	3.96	3.08
74AVCBH324245ZKER	296-18351-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	2805.00/1,000		
74AVCH16T245ZQLR	296-18352-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	3.47	2.78	2.16
74AVCH16T245ZQLR	296-18352-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	1964.00/1,000		
74AVCH20T245ZQLR	296-18353-1-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-VFBGA	3.71	2.97	2.31
74AVCH20T245ZQLR	296-18353-2-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-VFBGA	2104.00/1,000		
SN74AVC1T45DBVR	296-19094-1-ND	Tri-State, Single-Bit Dual Supply, Bus Transceiver	SOT-23-6	.56	.42	.32
SN74AVC1T45DBVR	296-19094-2-ND	Tri-State, Single-Bit Dual Supply, Bus Transceiver	SOT-23-6	546.00/3,000		
SN74AVC1T45DCKR	296-17992-1-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	SC70-6	.70	.56	.42
SN74AVC1T45DCKR	296-17992-2-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	SC70-6	567.00/3,000		
SN74AVC1T45YZPR	296-17371-1-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	6-DSBGA	.60	.45	.34
SN74AVC1T45YZPR	296-17371-2-ND	Tri-State, Single-Bit, Dual Supply, Bus Transceiver	6-DSBGA	585.00/3,000		
SN74AVC2T45DCTR	296-17232-1-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-SSOP	.76	.57	.43
SN74AVC2T45DCTR	296-17232-2-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-SSOP	741.00/3,000		
SN74AVC2T45DCUR	296-17993-1-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-VSSOP	.76	.57	.43
SN74AVC2T45DCUR	296-17993-2-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-VSSOP	741.00/3,000		
SN74AVC2T45YZPR	296-17858-1-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-DSBGA	.80	.60	.45
SN74AVC2T45YZPR	296-17858-2-ND	Tri-State, Dual-Bit, Dual Supply, Bus Transceiver	8-DSBGA	780.00/3,000		
SN74AVC4T245DGVR	296-18054-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TVSOP	.90	.75	.60
SN74AVC4T245DGVR	296-18054-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TVSOP	798.00/2,000		
SN74AVC4T245DR	296-17930-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-SOIC	.90	.75	.60
SN74AVC4T245DR	296-17930-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-SOIC	975.00/2,500		
SN74AVC4T245PWR	296-18056-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TSSOP	.90	.75	.60
SN74AVC4T245PWR	296-18056-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-TSSOP	798.00/2,000		
SN74AVC4T245RGYR	296-18231-1-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-QFN	.99	.83	.66
SN74AVC4T245RGYR	296-18231-2-ND	Tri-State, 4-Bit, Dual Supply, Bus Transceiver	16-QFN	439.00/1,000		
SN74AVC8T245DGVR	296-18206-1-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TVSOP	1.25	1.00	.75
SN74AVC8T245DGVR	296-18206-2-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TVSOP	1300.00/2,000		
SN74AVC8T245PWR	296-19100-1-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TSSOP	1.25	1.00	.75
SN74AVC8T245PWR	296-19100-2-ND	Tri-State, 8-Bit, Dual Supply, Bus Transceiver	24-TSSOP	1300.00/2,000		
SN74AVC8T245RHLR	296-17859-1-ND	Tri-State, 8-Bit, Dual Supply Bus Transceiver	24-QFN	1.25	1.00	.75
SN74AVC8T245RHLR	296-17859-2-ND	Tri-State, 8-Bit, Dual Supply Bus Transceiver	24-QFN	650.00/1,000		
SN74AVC16T245DGGR	296-18197-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TSSOP	3.15	2.52	1.96
SN74AVC16T245DGGR	296-18197-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TSSOP	3570.00/2,000		
SN74AVC16T245DGVR	296-19091-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVC16T245DGVR	296-19091-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVC16T245GQLR	296-19092-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-VFBGA	5.18	4.14	3.22
SN74AVC16T245GQLR	296-19092-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-VFBGA	2933.00/1,000		
SN74AVC16T245ZQLR	296-19093-1-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-VFBGA	3.47	2.78	2.16
SN74AVC16T245ZQLR	296-19093-2-ND	Tri-State, 16-Bit, Dual Supply Bus Transceiver	56-VFBGA	1964.00/1,000		
SN74AVC20T245DGGR	296-17299-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TSSOP	3.38	2.70	2.10
SN74AVC20T245DGGR	296-17299-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TSSOP	3826.00/2,000		
SN74AVC20T245DGVR	296-19095-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TVSOP	3.38	2.70	2.10
SN74AVC20T245DGVR	296-19095-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-TVSOP	3826.00/2,000		
SN74AVC20T245GQLR	296-19096-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-VFBGA	5.00	4.00	3.38
SN74AVC20T245GQLR	296-19096-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-VFBGA	3125.00/1,000		
SN74AVC20T245ZQLR	296-19097-1-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-VFBGA	3.71	2.97	2.31
SN74AVC20T245ZQLR	296-19097-2-ND	Tri-State, 20-Bit, Dual Supply Bus Transceiver	56-VFBGA	2104.00/1,000		
SN74AVC24T245GRGR	296-17661-1-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	5.00	4.00	3.38
SN74AVC24T245GRGR	296-17661-2-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	3125.00/1,000		
SN74AVC24T245ZRGR	296-17662-1-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	3.76	3.01	2.34
SN74AVC24T245ZRGR	296-17662-2-ND	Tri-State, 24-Bit Dual Supply Bus Transceiver	83-BGA	2129.00/1,000		
SN74AVC32T245GKER	296-19098-1-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-LFBGA	5.00	4.00	3.38
SN74AVC32T245GKER	296-19098-2-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3125.00/1,000		
SN74AVC32T245ZKER	296-19099-1-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3.83	3.06	2.38
SN74AVC32T245ZKER	296-19099-2-ND	Tri-State, 32-Bit Dual Supply Bus Transceiver	96-LFBGA	2168.00/1,000		
SN74AVC16244DGGR	296-9783-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	3.60	2.88	2.24
SN74AVC16244DGGR	296-9783-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	4080.00/2,000		
SN74AVC16244DGVR	296-9784-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	3.60	2.88	2.24
SN74AVC16244DGVR	296-9784-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	4080.00/2,000		
SN74AVC16244GQLR	296-9785-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	3.96	3.17	2.47
SN74AVC16244GQLR	296-9785-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	2244.00/1,000		
SN74AVC16245DGGR	296-12334-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	3.60	2.88	2.24
SN74AVC16245DGGR	296-12334-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	4080.00/2,000		
SN74AVC16245DGVR	296-9786-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	3.60	2.88	2.24
SN74AVC16245DGVR	296-9786-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	4080.00/2,000		
SN74AVC16269DGGR	296-9787-1-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-TSSOP	4.46	3.57	2.78
SN74AVC16269DGGR	296-9787-2-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-TSSOP	5050.00/2,000		
SN74AVC16269DGVR	296-9788-1-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-TVSOP	4.46	3.57	2.78
SN74AVC16269DGVR	296-9788-2-ND	Tri-State 12-24 Bit Registered Bus Exchanger	56-TVSOP	5050.00/2,000		
SN74AVC16334DGGR	296-9789-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	3.60	2.88	2.24
SN74AVC16334DGGR	296-9789-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TSSOP	4080.00/2,000		
SN74AVC16334DGVR	296-9790-1-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	3.60	2.88	2.24
SN74AVC16334DGVR	296-9790-2-ND	Tri-State 16-Bit Univ. Bus Driver	48-TVSOP	4080.00/2,000		
SN74AVC16373DGGR	296-9791-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	3.60	2.88	2.24
SN74AVC16373DGGR	296-9791-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	4080.00/2,000		
SN74AVC16373DGVR	296-9792-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	3.60	2.88	2.24
SN74AVC16373DGVR	296-9792-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	4080.00/2,000		

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74AVC16373GQLR	296-9793-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-BGA	3.96	3.17	2.47
SN74AVC16373GQLR	296-9793-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-BGA	2244.00/1,000		
SN74AVC16374DGGR	296-9794-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	3.60	2.88	2.24
SN74AVC16374DGGR	296-9794-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	4080.00/2,000		
SN74AVC16374DGVR	296-9795-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	3.60	2.88	2.24
SN74AVC16374DGVR	296-9795-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	4080.00/2,000		
SN74AVC16374GQLR	296-9796-1-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	3.96	3.17	2.47
SN74AVC16374GQLR	296-9796-2-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	2244.00/1,000		
SN74AVC16646DGGR	296-9797-1-ND	Tri-State 16-Bit Bus Xcvr/Register	56-TSSOP	3.38	2.70	2.10
SN74AVC16646DGGR	296-9797-2-ND	Tri-State 16-Bit Bus Xcvr/Register	56-TSSOP	3826.00/2,000		
SN74AVC16646DGVR	296-9798-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TSSOP	3.38	2.70	2.10
SN74AVC16646DGVR	296-9798-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TSSOP	3826.00/2,000		
SN74AVC16722DGGR	296-9799-1-ND	Tri-State 22-Bit Flip-Flop	64-TSSOP	4.19	3.35	2.61
SN74AVC16722DGGR	296-9799-2-ND	Tri-State 22-Bit Flip-Flop	64-TSSOP	4744.00/2,000		
SN74AVC16827DGGR	296-9800-1-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	3.38	2.70	2.10
SN74AVC16827DGGR	296-9800-2-ND	Tri-State 20-Bit Buffer/Driver	56-TSSOP	3826.00/2,000		
SN74AVC16827DGVR	296-9801-1-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	3.38	2.70	2.10
SN74AVC16827DGVR	296-9801-2-ND	Tri-State 20-Bit Buffer/Driver	56-TVSOP	3826.00/2,000		
SN74AVC16834DGGR	296-9802-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2.48	1.98	1.54
SN74AVC16834DGGR	296-9802-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2806.00/2,000		
SN74AVC16834DGVR	296-9803-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2.48	1.98	1.54
SN74AVC16834DGVR	296-9803-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2806.00/2,000		
SN74AVC16835DGGR	296-9804-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2.48	1.98	1.54
SN74AVC16835DGGR	296-9804-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TSSOP	2806.00/2,000		
SN74AVC16835DGVR	296-9805-1-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2.48	1.98	1.54
SN74AVC16835DGVR	296-9805-2-ND	Tri-State 18-Bit Univ. Bus Driver	56-TVSOP	2806.00/2,000		
SN74AVCA406DGGR	296-18296-1-ND	Transceiver for Memory Card Interface	48-TSSOP	2.00	1.60	1.20
SN74AVCA406DGGR	296-18296-2-ND	Transceiver for Memory Card Interface	48-TSSOP	2080.00/2,000		
SN74AVCA406GQCR	296-17558-1-ND	Transceiver for Memory Card Interface	48-VFBGA	2.97	2.38	1.85
SN74AVCA406GQCR	296-17558-2-ND	Transceiver for Memory Card Interface	48-VFBGA	4157.50/2,500		
SN74AVCA406LZQSR	296-19595-1-ND	Transceiver for Memory Card Interface ***NEW!***	48-VFBGA	1.63	1.30	.98
SN74AVCA406LZQSR	296-19595-2-ND	Transceiver for Memory Card Interface ***NEW!***	48-VFBGA	2080.00/2,500		
SN74AVCA406ZQCR	296-17829-1-ND	Transceiver for Memory Card Interface	48-VFBGA	2.20	1.76	1.32
SN74AVCA406ZQCR	296-17829-2-ND	Transceiver for Memory Card Interface	48-VFBGA	2815.00/2,500		
SN74AVCA164245GR	296-14450-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3.15	2.52	1.96
SN74AVCA164245GR	296-14450-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3570.00/2,000		
SN74AVCA164245VR	296-15446-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVCA164245VR	296-15446-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVCAH164245GR	296-14754-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	3.15	2.52	1.96
SN74AVCAH164245GR	296-14754-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	3570.00/2,000		
SN74AVCAH164245KR	296-15447-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	5.20	4.16	3.51
SN74AVCAH164245KR	296-15447-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	3250.00/1,000		
SN74AVCAH164245VR	296-14063-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVCAH164245VR	296-14063-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVCB164245GR	296-15448-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3.15	2.52	1.96
SN74AVCB164245GR	296-15448-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3570.00/2,000		
SN74AVCB164245KR	296-15449-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	5.20	4.16	3.51
SN74AVCB164245KR	296-15449-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	3250.00/1,000		
SN74AVCB164245VR	296-15550-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVCB164245VR	296-15550-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVCB324245KR	296-19101-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	5.20	4.16	3.51
SN74AVCB324245KR	296-19101-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3250.00/1,000		
SN74AVCBH164245GR	296-14002-1-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	3.15	2.52	1.96
SN74AVCBH164245GR	296-14002-2-ND	Tri-St. 16-Bit Dual Supply Bus Transcvr	48-TSSOP	3570.00/2,000		
SN74AVCBH164245KR	296-15551-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	5.20	4.16	3.51
SN74AVCBH164245KR	296-15551-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	3250.00/1,000		
SN74AVCBH164245VR	296-15552-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVCBH164245VR	296-15552-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVCBH324245KR	296-17352-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	5.20	4.16	3.51
SN74AVCBH324245KR	296-17352-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3250.00/1,000		
SN74AVCH1T45DBVR	296-19104-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SOT-23-6	.56	.42	.32
SN74AVCH1T45DBVR	296-19104-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SOT-23-6	546.00/3,000		
SN74AVCH1T45DCKR	296-19105-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SC70-6	.56	.42	.32
SN74AVCH1T45DCKR	296-19105-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SC70-6	546.00/3,000		
SN74AVCH1T45YZPR	296-17372-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	.48	.36	.27
SN74AVCH1T45YZPR	296-17372-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	468.00/3,000		
SN74AVCH2T45DCTR	296-19108-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-SSOP	.72	.54	.41
SN74AVCH2T45DCTR	296-19108-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-SSOP	702.00/3,000		
SN74AVCH2T45DCUR	296-19109-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-VSSOP	.80	.60	.45
SN74AVCH2T45DCUR	296-19109-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-VSSOP	780.00/3,000		
SN74AVCH4T245DGVR	296-18055-1-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-TVSOP	.90	.75	.60
SN74AVCH4T245DGVR	296-18055-2-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-TVSOP	798.00/2,000		
SN74AVCH4T245DR	296-18032-1-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-SOIC	.90	.75	.60
SN74AVCH4T245DR	296-18032-2-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-SOIC	975.00/2,500		
SN74AVCH4T245PWR	296-18057-1-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-TSSOP	.90	.75	.60
SN74AVCH4T245PWR	296-18057-2-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-TSSOP	798.00/2,000		
SN74AVCH4T245RGYR	296-18262-1-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-QFN	.99	.83	.66
SN74AVCH4T245RGYR	296-18262-2-ND	Tri-State 4-Bit, Dual Supply, Bus Transceiver	16-QFN	439.00/1,000		
SN74AVCH8T245DGV	296-17932-ND	Tri-State 8-Bit, Dual Supply, Bus Transceiver	24-TVSOP	1.25	1.00	.75
SN74AVCH8T245PWR	296-19112-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TSSOP	1.25	1.00	.75
SN74AVCH8T245PWR	296-19112-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver	24-TSSOP	1300.00/2,000		
SN74AVCH16T245GQLR	296-19102-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	5.20	4.16	3.51
SN74AVCH16T245GQLR	296-19102-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	3250.00/1,000		
SN74AVCH16T245GR	296-18283-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3.15	2.52	1.96
SN74AVCH16T245GR	296-18283-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TSSOP	3570.00/2,000		
SN74AVCH16T245VR	296-19103-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3.15	2.52	1.96
SN74AVCH16T245VR	296-19103-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	48-TVSOP	3570.00/2,000		
SN74AVCH20T245GR	296-17819-1-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-TSSOP	3.38	2.70	2.10
SN74AVCH20T245GR	296-17819-2-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-TSSOP	3826.00/2,000		
SN74AVCH20T245KR	296-19106-1-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-VFBGA	5.20	4.16	3.51
SN74AVCH20T245KR	296-19106-2-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-VFBGA	3250.00/1,000		
SN74AVCH20T245VR	296-19107-1-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-TVSOP	3.38	2.70	2.10
SN74AVCH20T245VR	296-19107-2-ND	Tri-State 20-Bit Dual Supply Bus Transceiver	56-TVSOP	3826.00/2,000		
SN74AVCH24T245GRGR	296-17663-1-ND	Tri-State 24-Bit Dual Supply Bus Transceiver	83-BGA	5.00	4.00	3.38
SN74AVCH24T245GRGR	296-17663-2-ND	Tri-State 24-Bit Dual Supply Bus Transceiver	83-BGA	3125.00/1,000		
SN74AVCH24T245ZRGR	296-17664-1-ND	Tri-State 24-Bit Dual Supply Bus Transceiver	83-BGA	3.76	3.01	2.34
SN74AVCH24T245ZRGR	296-17664-2-ND	Tri-State 24-Bit Dual Supply Bus Transceiver	83-BGA	2129.00/1,000		
SN74AVCH32T245KR	296-19110-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	5.20	4.16	3.51
SN74AVCH32T245KR	296-19110-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3250.00/1,000		
SN74AVCH32T245ZKER	296-19111-1-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	3.83	3.06	2.38
SN74AVCH32T245ZKER	296-19111-2-ND	Tri-State 32-Bit Dual Supply Bus Transceiver	96-LFBGA	2168.00/1,000		

BCT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN64BCT125AD	296-9690-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	2.00	1.60	1.20
SN64BCT757DW	296-9692-5-ND	Octal Buffer/Driver	20-SOIC	4.05	3.24	2.52
SN64BCT25244NT	296-9691-5-ND	Tri-State Octal Bus Buffer/Driver	24-Dip	6.00	4.80	4.05
SN74BCT244DWR	296-1152-1-ND	Octal Buffer/Driver	20-SOIC	2.93	2.34	1.82
SN74BCT244DWR	296-1152-2-ND	Octal Buffer/Driver	20-SOIC	3316.00/2,000		
SN74BCT245DWR	296-1154-1-ND	Octal Bus Transceiver	20-SOIC	2.93	2.34	1.82
SN74BCT245DWR	296-1154-2-ND	Octal Bus Transceiver	20-SOIC	3316.00/2,000		
SN74BCT374NSR	296-13177-1-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOP	2.93	2.34	1.82
SN74BCT374NSR	296-13177-2-ND	Tri-State Octal Edge-Triggered D-Type Flip-Flop	20-SOP	3316.00/2,000		
SN74BCT543DW	296-12335-5-ND	Tri-State Octal Register Transceiver with Output	24-SOIC	8.10	6.48	5.47
SN74BCT623NSR	296-13178-1-ND	Tri-State Octal Bus Transceiver	20-SOP	3.15	2.52	1.96
SN74BCT623NSR	296-13178-2-ND	Tri-State Octal Bus Transceiver	20-SOP	3570.00/2,000		
SN74BCT640NSR	296-13179-1-ND	Tri-State Octal Bus Transceiver	20-SOP	3.15	2.52	1.96
SN74BCT640NSR	296-13179-2-ND	Tri-State Octal Bus Transceiver	20-SOP	3570.00/2,000		
SN74BCT652DWR	296-1155-1-ND	Octal Bus Transceiver	24-SOIC	7.00	5.60	4.73
SN74BCT652DWR	296-1155-2-ND	Octal Bus Transceiver	24-SOIC	8750.00/2,000		
SN74BCT2414DW	296-13176-5-ND	Memory Decoder with On-Chip Supply Voltage Monitor	20-SOIC	3.15	2.52	1.96

(Continued)

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Bus Switch Family (CBT)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
74CBTLV16211CGRDR	296-18211-1-ND	Low Voltage 24-Bit FET Bus Switch	54-LFBGA	2.97	2.38	1.85
74CBTLV16211CGRDR	296-18211-2-ND	Low Voltage 24-Bit FET Bus Switch	54-LFBGA	1683.00/1,000		
SN74CB3Q3125DBQR	296-19123-1-ND	Quad FET Bus Switch	16-SSOP	.84	.70	.56
SN74CB3Q3125DBQR	296-19123-2-ND	Quad FET Bus Switch	16-SSOP	910.00/2,500		
SN74CB3Q3125DGVR	296-19124-1-ND	Quad FET Bus Switch	14-TVSOP	.84	.70	.56
SN74CB3Q3125DGVR	296-19124-2-ND	Quad FET Bus Switch	14-TVSOP	744.00/2,000		
SN74CB3Q3125PWR	296-16804-1-ND	Quad FET Bus Switch	14-TSSOP	.93	.78	.62
SN74CB3Q3125PWR	296-16804-2-ND	Quad FET Bus Switch	14-TSSOP	824.00/2,000		
SN74CB3Q3244DBQR	296-19125-1-ND	8-Bit FET Bus Switch	20-SSOP	.84	.70	.56
SN74CB3Q3244DBQR	296-19125-2-ND	8-Bit FET Bus Switch	20-SSOP	910.00/2,500		
SN74CB3Q3244DGVR	296-19126-1-ND	8-Bit FET Bus Switch	20-TVSOP	.84	.70	.56
SN74CB3Q3244DGVR	296-19126-2-ND	8-Bit FET Bus Switch	20-TVSOP	744.00/2,000		
SN74CB3Q3244GQNR	296-17033-1-ND	8-Bit FET Bus Switch	20-VFBGA	1.43	1.14	.86
SN74CB3Q3244GQNR	296-17033-2-ND	8-Bit FET Bus Switch	20-VFBGA	741.00/1,000		
SN74CB3Q3244PWR	296-17824-1-ND	8-Bit FET Bus Switch	20-TSSOP	.84	.70	.56
SN74CB3Q3244PWR	296-17824-2-ND	8-Bit FET Bus Switch	20-TSSOP	744.00/2,000		
SN74CB3Q3244RGYR	296-19127-1-ND	8-Bit FET Bus Switch	20-QFN	1.14	.95	.76
SN74CB3Q3244RGYR	296-19127-2-ND	8-Bit FET Bus Switch	20-QFN	505.00/1,000		
SN74CB3Q3244ZQNR	296-17034-1-ND	8-Bit FET Bus Switch	20-VFBGA	1.14	.95	.76
SN74CB3Q3244ZQNR	296-17034-2-ND	8-Bit FET Bus Switch	20-VFBGA	505.00/1,000		
SN74CB3Q3245DBQR	296-19128-1-ND	8-Bit FET Bus Switch	20-SSOP	.84	.70	.56
SN74CB3Q3245DBQR	296-19128-2-ND	8-Bit FET Bus Switch	20-SSOP	910.00/2,500		
SN74CB3Q3245DGVR	296-19129-1-ND	8-Bit FET Bus Switch	20-TVSOP	1.14	.95	.76
SN74CB3Q3245DGVR	296-19129-2-ND	8-Bit FET Bus Switch	20-TVSOP	1010.00/2,000		
SN74CB3Q3245PWR	296-19130-1-ND	8-Bit FET Bus Switch	20-TSSOP	.84	.70	.56
SN74CB3Q3245PWR	296-19130-2-ND	8-Bit FET Bus Switch	20-TSSOP	744.00/2,000		
SN74CB3Q3245RGYR	296-19131-1-ND	8-Bit FET Bus Switch	20-QFN	1.14	.95	.76
SN74CB3Q3245RGYR	296-19131-2-ND	8-Bit FET Bus Switch	20-QFN	505.00/1,000		
SN74CB3Q3251DBQR	296-19132-1-ND	1-of-8 FET Mux/Demux	16-SSOP	.84	.70	.56
SN74CB3Q3251DBQR	296-19132-2-ND	1-of-8 FET Mux/Demux	16-SSOP	910.00/2,500		
SN74CB3Q3251DGVR	296-19133-1-ND	1-of-8 FET Mux/Demux	16-TVSOP	.84	.70	.56
SN74CB3Q3251DGVR	296-19133-2-ND	1-of-8 FET Mux/Demux	16-TVSOP	744.00/2,000		
SN74CB3Q3251IPWR	296-18204-1-ND	1-of-8 FET Mux/Demux	16-TSSOP	.84	.70	.56
SN74CB3Q3251IPWR	296-18204-2-ND	1-of-8 FET Mux/Demux	16-TSSOP	744.00/2,000		
SN74CB3Q3253DBQR	296-17283-1-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.84	.70	.56
SN74CB3Q3253DBQR	296-17283-2-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	910.00/2,500		
SN74CB3Q3253DGVR	296-19134-1-ND	Dual 1-of-4 FET Mux/Demux	16-TVSOP	1.14	.95	.76
SN74CB3Q3253DGVR	296-19134-2-ND	Dual 1-of-4 FET Mux/Demux	16-TVSOP	1010.00/2,000		
SN74CB3Q3253PWR	296-19135-1-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	.84	.70	.56
SN74CB3Q3253PWR	296-19135-2-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	744.00/2,000		
SN74CB3Q3253RGYR	296-19136-1-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	1.14	.95	.76
SN74CB3Q3253RGYR	296-19136-2-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	505.00/1,000		
SN74CB3Q3257DBQR	296-17511-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.84	.70	.56
SN74CB3Q3257DBQR	296-17511-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	910.00/2,500		
SN74CB3Q3257DGVR	296-19137-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	1.14	.95	.76
SN74CB3Q3257DGVR	296-19137-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	1010.00/2,000		
SN74CB3Q3257PWR	296-19138-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.84	.70	.56
SN74CB3Q3257PWR	296-19138-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	744.00/2,000		
SN74CB3Q3257RGYR	296-16834-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	1.14	.95	.76
SN74CB3Q3257RGYR	296-16834-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	505.00/1,000		
SN74CB3Q3305PWR	296-16809-1-ND	Dual FET Bus Switch	8-TSSOP	1.00	.75	.57
SN74CB3Q3305PWR	296-16809-2-ND	Dual FET Bus Switch	8-TSSOP	666.00/2,000		
SN74CB3Q3306APWR	296-15102-1-ND	Dual Low Voltage FET Bus Switch	8-TSSOP	1.00	.75	.57
SN74CB3Q3306APWR	296-15102-2-ND	Dual Low Voltage FET Bus Switch	8-TSSOP	666.00/2,000		
SN74CB3Q3345DBQR	296-19139-1-ND	8-Bit Low Voltage FET Bus Switch	20-SSOP	1.14	.95	.76
SN74CB3Q3345DBQR	296-19139-2-ND	8-Bit Low Voltage FET Bus Switch	20-SSOP	1235.00/2,500		
SN74CB3Q3345DGVR	296-19140-1-ND	8-Bit Low Voltage FET Bus Switch	20-TVSOP	1.14	.95	.76
SN74CB3Q3345DGVR	296-19140-2-ND	8-Bit Low Voltage FET Bus Switch	20-TVSOP	1010.00/2,000		
SN74CB3Q3345PWR	296-19141-1-ND	8-Bit Low Voltage FET Bus Switch	20-TSSOP	1.14	.95	.76
SN74CB3Q3345PWR	296-19141-2-ND	8-Bit Low Voltage FET Bus Switch	20-TSSOP	1010.00/2,000		
SN74CB3Q3345RGYR	296-19142-1-ND	8-Bit Low Voltage FET Bus Switch	20-QFN	1.38	1.15	.92
SN74CB3Q3345RGYR	296-19142-2-ND	8-Bit Low Voltage FET Bus Switch	20-QFN	612.00/1,000		
SN74CB3Q3384ADBQR	296-17353-1-ND	10-Bit FET Bus Switch	24-QSOP	1.14	.95	.76
SN74CB3Q3384ADBQR	296-17353-2-ND	10-Bit FET Bus Switch	24-QSOP	1235.00/2,500		
SN74CB3Q3384ADGVR	296-19143-1-ND	10-Bit FET Bus Switch	24-TVSOP	1.14	.95	.76
SN74CB3Q3384ADGVR	296-19143-2-ND	10-Bit FET Bus Switch	24-TVSOP	1010.00/2,000		
SN74CB3Q3384APWR	296-19144-1-ND	10-Bit FET Bus Switch	24-TSSOP	1.14	.95	.76
SN74CB3Q3384APWR	296-19144-2-ND	10-Bit FET Bus Switch	24-TSSOP	1010.00/2,000		
SN74CB3Q6800DBQR	296-19145-1-ND	10-Bit FET Bus Switch	24-SSOP	.80	.60	.45
SN74CB3Q6800DBQR	296-19145-2-ND	10-Bit FET Bus Switch	24-SSOP	650.00/2,500		
SN74CB3Q6800DGVR	296-19146-1-ND	10-Bit FET Bus Switch	24-TVSOP	.80	.60	.45
SN74CB3Q6800DGVR	296-19146-2-ND	10-Bit FET Bus Switch	24-TVSOP	532.00/2,000		
SN74CB3Q6800PWR	296-17084-1-ND	10-Bit FET Bus Switch	24-TSSOP	.80	.60	.45
SN74CB3Q6800PWR	296-17084-2-ND	10-Bit FET Bus Switch	24-TSSOP	532.00/2,000		
SN74CB3Q16210DGGR	296-17178-1-ND	20-Bit Low Voltage FET Bus Switch	48-TSSOP	1.90	1.52	1.14
SN74CB3Q16210DGGR	296-17178-2-ND	20-Bit Low Voltage FET Bus Switch	48-TSSOP	1976.00/2,000		
SN74CB3Q16210DGVR	296-19113-1-ND	20-Bit Low Voltage FET Bus Switch	48-TVSOP	1.90	1.52	1.14
SN74CB3Q16210DGVR	296-19113-2-ND	20-Bit Low Voltage FET Bus Switch	48-TVSOP	1976.00/2,000		
SN74CB3Q16210DLR	296-19114-1-ND	20-Bit Low Voltage FET Bus Switch	48-SSOP	1.90	1.52	1.14
SN74CB3Q16210DLR	296-19114-2-ND	20-Bit Low Voltage FET Bus Switch	48-SSOP	988.00/1,000		
SN74CB3Q16211DGVR	296-17628-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TVSOP	1.90	1.52	1.14
SN74CB3Q16211DGVR	296-17628-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TVSOP	1976.00/2,000		
SN74CB3Q16211DGGR	296-17629-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TSSOP	1.90	1.52	1.14
SN74CB3Q16211DGGR	296-17629-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-TSSOP	1976.00/2,000		
SN74CB3Q16211DLR	296-17786-1-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-SSOP	1.90	1.52	1.14
SN74CB3Q16211DLR	296-17786-2-ND	24-Bit FET 2.5V/3.3V Low Voltage High Bandwidth Bus Switch	56-SSOP	988.00/1,000		
SN74CB3Q16244DGGR	296-17593-1-ND	16-Bit FET Bus Switch	48-TSSOP	2.38	1.90	1.43
SN74CB3Q16244DGGR	296-17593-2-ND	16-Bit FET Bus Switch	48-TSSOP	2470.00/2,000		
SN74CB3Q16244DGVR	296-19115-1-ND	16-Bit FET Bus Switch	48-TVSOP	2.38	1.90	1.43
SN74CB3Q16244DGVR	296-19115-2-ND	16-Bit FET Bus Switch	48-TVSOP	2470.00/2,000		
SN74CB3Q16244DLR	296-19116-1-ND	16-Bit FET Bus Switch	48-SSOP	2.38	1.90	1.43
SN74CB3Q16244DLR	296-19116-2-ND	16-Bit FET Bus Switch	48-SSOP	1235.00/1,000		
SN74CB3Q16245DGGR	296-19117-1-ND	16-Bit Low Voltage FET Bus Switch	48-TSSOP	2.38	1.90	1.43
SN74CB3Q16245DGGR	296-19117-2-ND	16-Bit Low Voltage FET Bus Switch	48-TSSOP	2470.00/2,000		
SN74CB3Q16245DGVR	296-19118-1-ND	16-Bit Low Voltage FET Bus Switch	48-TVSOP	2.38	1.90	1.43
SN74CB3Q16245DGVR	296-19118-2-ND	16-Bit Low Voltage FET Bus Switch	48-TVSOP	2470.00/2,000		
SN74CB3Q16245DLR	296-19119-1-ND	16-Bit Low Voltage FET Bus Switch	48-SSOP	2.38	1.90	1.43
SN74CB3Q16245DLR	296-19119-2-ND	16-Bit Low Voltage FET Bus Switch	48-SSOP	1235.00/1,000		
SN74CB3Q16811DGGR	296-19120-1-ND	24-Bit Low Voltage FET Bus Switch	56-TSSOP	2.43	1.95	1.52
SN74CB3Q16811DGGR	296-19120-2-ND	24-Bit Low Voltage FET Bus Switch	56-TSSOP	2754.00/2,000		
SN74CB3Q16811DGVR	296-19121-1-ND	24-Bit Low Voltage FET Bus Switch	56-TVSOP	2.43	1.95	1.52
SN74CB3Q16811DGVR	296-19121-2-ND	24-Bit Low Voltage FET Bus Switch	56-TVSOP	2754.00/2,000		
SN74CB3Q16811DLR	296-19122-1-ND	24-Bit Low Voltage FET Bus Switch	56-SSOP	2.43	1.95	1.52
SN74CB3Q16811DLR	296-19122-2-ND	24-Bit Low Voltage FET Bus Switch	56-SSOP	1377.00/1,000		
SN74CB3Q32245GKER	296-17665-1-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-LFBGA	5.20	4.16	3.51
SN74CB3Q32245GKER	296-17665-2-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-LFBGA	3250.00/1,000		
SN74CB3Q32245ZKER	296-17666-1-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-LFBGA	3.83	3.06	2.38
SN74CB3Q32245ZKER	296-17666-2-ND	32-Bit, 2.5V/3.3V, High Bandwidth Bus Switch	96-LFBGA	2168.00/1,000		
SN74CB3T1G125DBVR	296-19150-1-ND	Single Low Voltage FET Bus Switch	SOT-23-5	.87	.73	.58
SN74CB3T1G125DBVR	296-19150-2-ND	Single Low Voltage FET Bus Switch	SOT-23-5	1131.00/3,000		
SN74CB3T1G125DCKR	296-15835-1-ND	Single Low Voltage FET Bus Switch	SC-70	.87	.73	.58
SN74CB3T1G125DCKR	296-15835-2-ND	Single Low Voltage FET Bus Switch	SC-70	1131.00/3,000		
SN74CB3T3125DGVR	296-19151-1-ND	Quad FET Bus Switch	14-TVSOP	1.25	1.00	.75
SN74CB3T3125DGVR	296-19151-2-ND	Quad FET Bus Switch	14-TVSOP	1300.00/2,000		
SN74CB3T3125PWR	296-17426-1-ND	Quad FET Bus Switch	14-TSSOP	1.25	1.00	.75
SN74CB3T3125PWR	296-17426-2-ND	Quad FET Bus Switch	14-TSSOP	1300.00/2,000		
SN74CB3T3245DBQR	296-17823-1-ND	8-Bit FET Bus Switch	20-SSOP	1.25	1.00	.75
SN74CB3T3245DBQR	296-17823-2-ND	8-Bit FET Bus Switch	20-SSOP	1600.00/2,500		
SN74CB3T3245DGVR	296-19152-1-ND	8-Bit FET Bus Switch	20-TVSOP	1.25	1.00	.75
SN74CB3T3245DGVR	296-19152-2-ND	8-Bit FET Bus Switch	20-TVSOP	1300.00/2,000		
SN74CB3T3245DWR	296-18214-1-ND	8-Bit FET Bus Switch	20-SOIC	1.25	1.00	.75
SN74CB3T3245DWR	296-18214-2-ND	8-Bit FET Bus Switch	20-SOIC	1300.00/2,000		
SN74CB3T3245PWR	296-18196-1-ND	8-Bit FET Bus Switch	20-TSSOP	1.25	1.00	.75
SN74CB3T3245PWR	296-18196-2-ND	8-Bit FET Bus Switch	20-TSSOP	1300.00/2,000		
SN74CB3T3253DBQR	296-19153-1-ND	Dual 1-of-4 Mux/Demux	16-SSOP	1.25	1.00	.75
SN74CB3T3253DBQR	296-19153-2-ND	Dual 1-of-4 Mux/Demux	16-SSOP	1600.00/2,500		
SN74CB3T3253DGVR	296-19154-1-ND	Dual 1-of-4 Mux/Demux	16-TVSOP	1.25	1.00	.75
SN74CB3T3253DGVR	296-19154-2-ND	Dual 1-of-4 Mux/Demux	16-TVSOP	1300.00/2,000		
SN74CB3T3253DR	296-19155-1-ND	Dual 1-of-4 Mux/Demux	16-SOIC	1.25	1.00	.75
SN74CB3T3253DR	296-19155-2-ND	Dual 1-of-4 Mux/Demux	16-SOIC	1600.00/2,500		
SN74CB3T3253PWR	296-19156-1-ND	Dual 1-of-4 Mux/Demux	16-TSSOP	1.25	1.00	.75
SN74CB3T3253PWR	296-19156-2-ND	Dual 1-of-4 Mux/Demux	16-TSSOP	1300.00/2,000		
SN74CB3T3257DGVR	296-19157-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	1.25	1.00	.75
SN74CB3T3257DGVR	296-19157-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	1300.00/2,000		
SN74CB3T3257PWR	296-17850-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	1.25	1.00	.75
SN74CB3T3257PWR	296-17850-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	1300.00/2,000		
SN74CB3T3306DCTR	296-15553-1-ND	3.3V Low Voltage Dual FET Bus Switch	8-SSOP	1.25	1.00	.75
SN74CB3T3306DCTR	296-15553-2-ND	3.3V Low Voltage Dual FET Bus Switch	8-SSOP	1950.00/3,000		
SN74CB3T3306DCUR	296-15554-1-ND	3.3V Low Voltage Dual FET Bus Switch	8-VSSOP	1.25	1.00	.75
SN74CB3T3306DCUR	296-15554-2-ND	3.3V Low Voltage Dual FET Bus Switch	8-VSSOP	1950.00/3,000		
SN74CB3T3383DBQR	296-19158-1-ND	10-Bit FET Bus Exchange Switch	24-SSOP	1.26	1.05	.84
SN74CB3T3383DBQR	296-19158-2-ND	10-Bit FET Bus Exchange Switch	24-SSOP	1365.00/2,500		
SN74CB3T3383DGVR	296-19159-1-ND	10-Bit FET Bus Exchange Switch	24-TVSOP	1.26	1.05	.84
SN74CB3T3383DGVR	296-19159-2-ND	10-Bit FET Bus Exchange Switch	24-TVSOP	1118.00/2,000		
SN74CB3T3383DWR	296-19160-1-ND	10-Bit FET Bus Exchange Switch	24-SOIC	1.26	1.05	.84
SN74CB3T3383DWR	296-19160-2-ND	10-Bit FET Bus Exchange Switch	24-SOIC	1118.00/2,000		
SN74CB3T3383PWR	296-19161-1-ND	10-Bit FET Bus Exchange Switch	24-TSSOP	1.26	1.05	.84
SN74CB3T3383PWR	296-19161-2-ND	10-Bit FET Bus Exchange Switch	24-TSSOP	1118.00/2,000		
SN74CB3T3384DBQR	296-17842-1-ND	10-Bit FET Bus Switch	24-SSOP	1.25	1.00	.75
SN74CB3T3384DBQR	296-17842-2-ND	10-Bit FET Bus Switch	24-SSOP	1600.00/2,500		
SN74CB3T3384DWR	296-19162-1-ND	10-Bit FET Bus Switch	24-SOIC	1.25	1.00	.75
SN74CB3T3384DWR	296-19162-2-ND	10-Bit FET Bus Switch	24-SOIC	1300.00/2,000		
SN74CB3T3384PWR	296-19163-1-ND	10-Bit FET Bus Switch	24-TSSOP	1.25	1.00	.75
SN74CB3T3384PWR	296-19163-2-ND	10-Bit FET Bus Switch	24-TSSOP	1300.00/2,000		
SN74CB3T16210DGGR	296-19147-1-ND	20-Bit FET Bus Switch	48-TSSOP	2.45	1.97	1.53
SN74CB3T16210DGGR	296-19147-2-ND	20-Bit FET Bus Switch	48-TSSOP	2780.00/2,000		
SN74CB3T16210DGVR	296-19148-1-ND	20-Bit FET Bus Switch	48-TVSOP	2.45	1.97	1.53
SN74CB3T16210DGVR	296-19148-2-ND	20-Bit FET Bus Switch	48-TVSOP	2780.00/2,000		
SN74CB3T16211DGGR	296-16978-1-ND	24-Bit FET Bus Switch	56-TSSOP	2.38	1.90	1.43
SN74CB3T16211DGGR	296-16978-2-ND	24-Bit FET Bus Switch	56-TSSOP	2470.00/2,000		
SN74CB3T16211DGVR	296-17832-1-ND	24-Bit FET Bus Switch	56-TVSOP	2.38	1.90	1.43
SN74CB3T16211DGVR	296-17832-2-ND	24-Bit FET Bus Switch	56-TVSOP	2470.00/2,000		
SN74CB3T16211DLR	296-19149-1-ND	24-Bit FET Bus Switch	56-SSOP	2.38	1.90	1.43
SN74CB3T16211DLR	296-19149-2-ND	24-Bit FET Bus Switch	56-SSOP	1235.00/1,000		
SN74CB3T16212DGGR	296-17667-1-ND	24-Bit FET Bus Exchange Switch	56-TSSOP	2.38	1.90	1.43
SN74CB3T16212DGGR	296-17667-2-ND	24-Bit FET Bus Exchange Switch	56-TSSOP	2470.00/2,000		
SN74CB3T16212DGVR	296-17668-1-ND	24-Bit FET Bus Exchange Switch	56-TVSOP	2.38	1.90	1.43
SN74CB3T16212DGVR	296-17668-2-ND	24-Bit FET Bus Exchange Switch	56-TVSOP	2470.00/2,000		
SN74CB3T16212ZQLR	296-17669-1-ND	24-Bit FET Bus Exchange Switch	56-VFBGA	2.36	1.89	1.47
SN74CB3T16212ZQLR	296-17669-2-ND	24-Bit FET Bus Exchange Switch	56-VFBGA	1339.00/1,000		
SN74CBT1G125DBVR	296-1164-1-ND	Single FET Bus Switch	SOT-23-5	.46	.37	.26
SN74CBT1G125DBVR	296-1164-2-ND	Single FET Bus Switch	SOT-23-5	357.00/3,000		
SN74CBT1G125DCKR	296-6410-1-ND	Single FET Bus Switch	SC70-5	.46	.37	.26
SN74CBT1G125DCKR	296-6410-2-ND	Single FET Bus Switch	SC70-5	357.00/3,000		
SN74CBT1G384DBVR	296-6411-1-ND	Single FET Bus Switch	SOT-23-5	.45	.36	.27
SN74CBT1G384DBVR	296-6411-2-ND	Single FET Bus Switch	SOT-23-5	366.00/3,000		
SN74CBT1G384DCKR	296-6412-1-ND	Single FET Bus Switch	SC70-5	.45	.36	.27
SN74CBT1G384DCKR	296-6412-2-ND	Single FET Bus Switch	SC70-5	366.00/3,000		
SN74CBT34X245DBBR	296-13180-1-ND	32-Bit FET Bus Switch	80-TVSOP	2.48	1.98	1.54
SN74CBT34X245DBBR	296-13180-2-ND	32-Bit FET Bus Switch	80-TVSOP	2806.00/2,000		
SN74CBT3125CDBQR	296-19187-1-ND	Quad FET Bus Switch	16-SSOP	.56	.42	.32
SN74CBT3125CDBQR	296-19187-2-ND	Quad FET Bus Switch	16-SSOP	455.00/2,500		
SN74CBT3125CDBR	296-19188-1-ND	Quad FET Bus Switch	14-SSOP	.56	.42	.32
SN74CBT3125CDBR	296-19188-2-ND	Quad FET Bus Switch	14-SSOP	372.00/2,000		
SN74CBT3125CDGVR	296-19189-1-ND	Quad FET Bus Switch	14-TVSOP	.56	.42	.32
SN74CBT3125CDGVR	296-19189-2-ND	Quad FET Bus Switch	14-TVSOP	372.00/2,000		
SN74CBT3125CDR	296-19190-1-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3125CDR	296-19190-2-ND	Quad FET Bus Switch	14-SOIC	455.00/2,500		
SN74CBT3125CPWR	296-19191-1-ND	Quad FET Bus Switch	14-TSSOP	.56	.42	.32
SN74CBT3125CPWR	296-19191-2-ND	Quad FET Bus Switch	14-TSSOP	372.00/2,000		
SN74CBT3125CRGYR	296-19192-1-ND	Quad FET Bus Switch	14-QFN	.80	.60	.45
SN74CBT3125CRGYR	296-19192-2-ND	Quad FET Bus Switch	14-QFN	266.00/1,000		
SN74CBT3125D	296-1165-5-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3125DR	296-1165-1-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBT3125DR	296-1165-2-ND	Quad FET Bus Switch	14-SOIC	455.00/2,500		
SN74CBT3125DBQR	296-6413-1-ND	Quad FET Bus Switch	16-SSOP	.56	.42	.32
SN74CBT3125DBQR	296-6413-2-ND	Quad FET Bus Switch	16-SSOP	455.00/2,500		
SN74CBT3125DBR	296-6414-1-ND	Quad FET Bus Switch	14-SSOP	.56	.42	.32
SN74CBT3125DBR	296-6414-2-ND	Quad FET Bus Switch	14-SSOP	372.00/2,000		
SN74CBT3125DGVR	296-6415-1-ND	Quad FET Bus Switch	14-TVSOP	.56	.42	.32
SN74CBT3125DGVR	296-6415-2-ND	Quad FET Bus Switch	14-TVSOP	372.00/2,000		
SN74CBT3125PWR	296-6416-1-ND	Quad FET Bus Switch	14-TSSOP	.56	.42	.32
SN74CBT3125PWR	296-6416-2-ND	Quad FET Bus Switch	14-TSSOP	372.00/2,000		
SN74CBT3125RGYR	296-13920-1-ND	Quad FET Bus Switch	14-QFN	.72	.54	.41
SN74CBT3125RGYR	296-13920-2-ND	Quad FET Bus Switch	14-QFN	239.00/1,000		
SN74CBT3126D	296-1537-5-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3126DR	296-1537-1-ND	Quad FET Bus Switch	14-SOIC	.56	.42	.32
SN74CBT3126DR	296-1537-2-ND	Quad FET Bus Switch	14-SOIC	455.00/2,500		
SN74CBT3126DBQR	296-6417-1-ND	Quad FET Bus Switch	16-SSOP	.56	.42	.32
SN74CBT3126DBQR	296-6417-2-ND	Quad FET Bus Switch	16-SSOP	455.00/2,500		
SN74CBT3126DBR	296-6418-1-ND	Quad FET Bus Switch	14-SSOP	.56	.42	.32
SN74CBT3126DBR	296-6418-2-ND	Quad FET Bus Switch	14-SSOP	372.00/2,000		
SN74CBT3126DGVR	296-6419-1-ND	Quad FET Bus Switch	14-TVSOP	.56	.42	.32
SN74CBT3126DGVR	296-6419-2-ND	Quad FET Bus Switch	14-TVSOP	372.00/2,000		
SN74CBT3126PWR	296-6420-1-ND	Quad FET Bus Switch	14-TSSOP	.56	.42	.32
SN74CBT3126PWR	296-6420-2-ND	Quad FET Bus Switch	14-TSSOP	372.00/2,000		
SN74CBT3126RGYR	296-13921-1-ND	Quad FET Bus Switch	14-QFN	.72	.54	.41
SN74CBT3126RGYR	296-13921-2-ND	Quad FET Bus Switch	14-QFN	239.00/1,000		
SN74CBT3244CDBQR	296-19193-1-ND	Octal FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3244CDBQR	296-19193-2-ND	Octal FET Bus Switch	20-SSOP	455.00/2,500		
SN74CBT3244CDBR	296-19194-1-ND	Octal FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3244CDBR	296-19194-2-ND	Octal FET Bus Switch	20-SSOP	372.00/2,000		
SN74CBT3244CDGVR	296-19195-1-ND	Octal FET Bus Switch	20-TVSOP	.72	.54	.41
SN74CBT3244CDGVR	296-19195-2-ND	Octal FET Bus Switch	20-TVSOP	478.00/2,000		
SN74CBT3244CDWR	296-19196-1-ND	Octal FET Bus Switch	20-SOIC	.56	.42	.32
SN74CBT3244CDWR	296-19196-2-ND	Octal FET Bus Switch	20-SOIC	372.00/2,000		
SN74CBT3244CPWR	296-19197-1-ND	Octal FET Bus Switch	20-TSSOP	.56	.42	.32
SN74CBT3244CPWR	296-19197-2-ND	Octal FET Bus Switch	20-TSSOP	372.00/2,000		
SN74CBT3244CRGYR	296-19198-1-ND	Octal FET Bus Switch	20-QFN	.72	.54	.41
SN74CBT3244CRGYR	296-19198-2-ND	Octal FET Bus Switch	20-QFN	239.00/1,000		
SN74CBT3244DBQR	296-6421-1-ND	Octal FET Bus Switch	20-SSOP	.64	.48	.36
SN74CBT3244DBQR	296-6421-2-ND	Octal FET Bus Switch	20-SSOP	520.00/2,500		
SN74CBT3244DBR	296-6422-1-ND	Octal FET Bus Switch	20-SSOP	.72	.54	.41
SN74CBT3244DBR	296-6422-2-ND	Octal FET Bus Switch	20-SSOP	478.00/2,000		
SN74CBT3244DGVR	296-6423-1-ND	Octal FET Bus Switch	20-TVSOP	.72	.54	.41
SN74CBT3244DGVR	296-6423-2-ND	Octal FET Bus Switch	20-TVSOP	478.00/2,000		
SN74CBT3244DW	296-1538-5-ND	Octal FET Bus Switch	20-SOIC	.72	.54	.41
SN74CBT3244DWR	296-14796-1-ND	Octal FET Bus Switch	20-SOIC	.72	.54	.41
SN74CBT3244DWR	296-14796-2-ND	Octal FET Bus Switch	20-SOIC	478.00/2,000		
SN74CBT3244GQNR	296-12089-1-ND	Octal FET Bus Switch	20-BGA	.81	.68	.54
SN74CBT3244GQNR	296-12089-2-ND	Octal FET Bus Switch	20-BGA	359.00/1,000		
SN74CBT3244PW	296-1166-5-ND	Octal FET Bus Switch	20-TSSOP	.72	.54	.41
SN74CBT3244PWR	296-1166-1-ND	Octal FET Bus Switch	20-TSSOP	.64	.48	.36
SN74CBT3244PWR	296-1166-2-ND	Octal FET Bus Switch	20-TSSOP	426.00/2,000		
SN74CBT3244RGYR	296-13922-1-ND	Octal FET Bus Switch	20-QFN	.72	.54	.41
SN74CBT3244RGYR	296-13922-2-ND	Octal FET Bus Switch	20-QFN	239.00/1,000		
SN74CBT3245ADBQR	296-6424-1-ND	Octal FET Bus Switch	20-SSOP	.72	.54	.41
SN74CBT3245ADBQR	296-6424-2-ND	Octal FET Bus Switch	20-SSOP	585.00/2,500		
SN74CBT3245ADBR	296-6425-1-ND	Octal FET Bus Switch	20-SSOP	.64	.48	.36
SN74CBT3245ADBR	296-6425-2-ND	Octal FET Bus Switch	20-SSOP	426.00/2,000		
SN74CBT3245ADGVR	296-6460-1-ND	Octal FET Bus Switch	20-TVSOP	.72	.54	.41
SN74CBT3245ADGVR	296-6460-2-ND	Octal FET Bus Switch	20-TVSOP	478.00/2,000		
SN74CBT3245ADW	296-6426-5-ND	Octal FET Bus Switch	20-SOIC	.64	.48	.36
SN74CBT3245ADWR	296-14797-1-ND	Octal FET Bus Switch	20-SOIC	.64	.48	.36
SN74CBT3245ADWR	296-14797-2-ND	Octal FET Bus Switch	20-SOIC	426.00/2,000		
SN74CBT3245AGQNR	296-12090-1-ND	Octal FET Bus Switch	20-BGA	1.05	.88	.70
SN74CBT3245AGQNR	296-12090-2-ND	Octal FET Bus Switch	20-BGA	466.00/1,000		
SN74CBT3245APWR	296-6427-1-ND	Octal FET Bus Switch	20-TSSOP	.75	.63	.50
SN74CBT3245APWR	296-6427-2-ND	Octal FET Bus Switch	20-TSSOP	666.00/2,000		
SN74CBT3245ARGYR	296-13923-1-ND	Octal FET Bus Switch	20-QFN	.72	.54	.41
SN74CBT3245ARGYR	296-13923-2-ND	Octal FET Bus Switch	20-QFN	239.00/1,000		
SN74CBT3245CDBQR	296-19199-1-ND	Octal FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3245CDBQR	296-19199-2-ND	Octal FET Bus Switch	20-SSOP	455.00/2,500		
SN74CBT3245CDBR	296-19200-1-ND	Octal FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3245CDBR	296-19200-2-ND	Octal FET Bus Switch	20-SSOP	372.00/2,000		
SN74CBT3245CDGVR	296-19201-1-ND	Octal FET Bus Switch	20-TVSOP	.68	.51	.39
SN74CBT3245CDGVR	296-19201-2-ND	Octal FET Bus Switch	20-TVSOP	452.00/2,000		
SN74CBT3245CDWR	296-17282-1-ND	Octal FET Bus Switch	20-SOIC	.56	.42	.32
SN74CBT3245CDWR	296-17282-2-ND	Octal FET Bus Switch	20-SOIC	372.00/2,000		
SN74CBT3245CPWR	296-19202-1-ND	Octal FET Bus Switch	20-TSSOP	.56	.42	.32
SN74CBT3245CPWR	296-19202-2-ND	Octal FET Bus Switch	20-TSSOP	372.00/2,000		
SN74CBT3245CRGYR	296-19203-1-ND	Octal FET Bus Switch	20-QFN	.72	.54	.41
SN74CBT3245CRGYR	296-19203-2-ND	Octal FET Bus Switch	20-QFN	239.00/1,000		
SN74CBT3251D	296-6428-5-ND	1-of-8 FET Mux/Demux	16-SOIC	.64	.48	.36
SN74CBT3251DBQR	296-6429-1-ND	1-of-8 FET Mux/Demux	16-SSOP	.64	.48	.36
SN74CBT3251DBQR	296-6429-2-ND	1-of-8 FET Mux/Demux	16-SSOP	520.00/2,500		
SN74CBT3251DBR	296-6430-1-ND	1-of-8 FET Mux/Demux	16-SSOP	.64	.48	.36
SN74CBT3251DBR	296-6430-2-ND	1-of-8 FET Mux/Demux	16-SSOP	426.00/2,000		
SN74CBT3251PWR	296-6431-1-ND	1-of-8 FET Mux/Demux	16-TSSOP	.64	.48	.36
SN74CBT3251PWR	296-6431-2-ND	1-of-8 FET Mux/Demux	16-TSSOP	426.00/2,000		
SN74CBT3251RGYR	296-13924-1-ND	1-of-8 FET Mux/Demux	16-QFN	.80	.60	.45
SN74CBT3251RGYR	296-13924-2-ND	1-of-8 FET Mux/Demux	16-QFN	266.00/1,000		
SN74CBT3253CDBQR	296-19204-1-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3253CDBQR	296-19204-2-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	455.00/2,500		
SN74CBT3253CDBR	296-19205-1-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3253CDBR	296-19205-2-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	372.00/2,000		
SN74CBT3253CDR	296-19206-1-ND	Dual 1-of-4 FET Mux/Demux	16-SOIC	.56	.42	.32
SN74CBT3253CDR	296-19206-2-ND	Dual 1-of-4 FET Mux/Demux	16-SOIC	455.00/2,500		
SN74CBT3253CPWR	296-19207-1-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	.56	.42	.32
SN74CBT3253CPWR	296-19207-2-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	372.00/2,000		
SN74CBT3253CRGYR	296-19208-1-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	.72	.54	.41
SN74CBT3253CRGYR	296-19208-2-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	239.00/1,000		
SN74CBT3253D	296-6432-5-ND	Dual 1-of-4 FET Mux/Demux	16-SOIC	.72	.54	.41
SN74CBT3253DBQR	296-6433-1-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.64	.48	.36
SN74CBT3253DBQR	296-6433-2-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	520.00/2,500		
SN74CBT3253DBR	296-6434-1-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	.64	.48	.36
SN74CBT3253DBR	296-6434-2-ND	Dual 1-of-4 FET Mux/Demux	16-SSOP	426.00/2,000		
SN74CBT3253PWR	296-1167-1-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	.64	.48	.36
SN74CBT3253PWR	296-1167-2-ND	Dual 1-of-4 FET Mux/Demux	16-TSSOP	426.00/2,000		

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBT3253RGYR	296-13925-1-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	.72	.54	.41
SN74CBT3253RGYR	296-13925-2-ND	Dual 1-of-4 FET Mux/Demux	16-QFN	239.00/1,000		
SN74CBT3257CDBQR	296-19209-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3257CDBQR	296-19209-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	455.00/2,500		
SN74CBT3257CDBR	296-19210-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.56	.42	.32
SN74CBT3257CDBR	296-19210-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	372.00/2,000		
SN74CBT3257CDR	296-15340-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.56	.42	.32
SN74CBT3257CDR	296-15340-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	455.00/2,500		
SN74CBT3257CPWR	296-19211-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.56	.42	.32
SN74CBT3257CPWR	296-19211-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	372.00/2,000		
SN74CBT3257CRGYR	296-19212-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	.72	.54	.41
SN74CBT3257CRGYR	296-19212-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	239.00/1,000		
SN74CBT3257D	296-1168-5-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.72	.54	.41
SN74CBT3257DR	296-1168-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.64	.48	.36
SN74CBT3257DR	296-1168-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	520.00/2,500		
SN74CBT3257DBQR	296-6435-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.64	.48	.36
SN74CBT3257DBQR	296-6435-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	520.00/2,500		
SN74CBT3257DBR	296-6436-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.64	.48	.36
SN74CBT3257DBR	296-6436-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	426.00/2,000		
SN74CBT3257PWR	296-6437-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.64	.48	.36
SN74CBT3257PWR	296-6437-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	426.00/2,000		
SN74CBT3257RGYR	296-13926-1-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	.80	.60	.45
SN74CBT3257RGYR	296-13926-2-ND	4-Bit, 1-of-2 FET Mux/Demux	16-QFN	266.00/1,000		
SN74CBT3305CDR	296-19213-1-ND	Dual FET Bus Switch	8-SOIC	.56	.42	.32
SN74CBT3305CDR	296-19213-2-ND	Dual FET Bus Switch	8-SOIC	455.00/2,500		
SN74CBT3305CPWR	296-19214-1-ND	Dual FET Bus Switch	8-TSSOP	.56	.42	.32
SN74CBT3305CPWR	296-19214-2-ND	Dual FET Bus Switch	8-TSSOP	372.00/2,000		
SN74CBT3306CDR	296-19215-1-ND	Dual FET Bus Switch	8-SOIC	.56	.42	.32
SN74CBT3306CDR	296-19215-2-ND	Dual FET Bus Switch	8-SOIC	455.00/2,500		
SN74CBT3306CPWR	296-16755-1-ND	Dual FET Bus Switch	8-TSSOP	.56	.42	.32
SN74CBT3306CPWR	296-16755-2-ND	Dual FET Bus Switch	8-TSSOP	372.00/2,000		
SN74CBT3306D	296-1540-5-ND	Dual FET Bus Switch	8-SOIC	.56	.42	.32
SN74CBT3306DR	296-1540-1-ND	Dual FET Bus Switch	8-SOIC	.56	.42	.32
SN74CBT3306DR	296-1540-2-ND	Dual FET Bus Switch	8-SOIC	455.00/2,500		
SN74CBT3306PWR	296-6438-1-ND	Dual FET Bus Switch	8-TSSOP	.56	.42	.32
SN74CBT3306PWR	296-6438-2-ND	Dual FET Bus Switch	8-TSSOP	372.00/2,000		
SN74CBT3345CDBQR	296-19216-1-ND	8-Bit FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3345CDBQR	296-19216-2-ND	8-Bit FET Bus Switch	20-SSOP	455.00/2,500		
SN74CBT3345CDBR	296-19217-1-ND	8-Bit FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT3345CDBR	296-19217-2-ND	8-Bit FET Bus Switch	20-SSOP	372.00/2,000		
SN74CBT3345CDGVR	296-19218-1-ND	8-Bit FET Bus Switch	20-TVSOP	.72	.54	.41
SN74CBT3345CDGVR	296-19218-2-ND	8-Bit FET Bus Switch	20-TVSOP	478.00/2,000		
SN74CBT3345CDWR	296-19219-1-ND	8-Bit FET Bus Switch	20-SOIC	.56	.42	.32
SN74CBT3345CDWR	296-19219-2-ND	8-Bit FET Bus Switch	20-SOIC	372.00/2,000		
SN74CBT3345CPWR	296-19220-1-ND	8-Bit FET Bus Switch	20-TSSOP	.56	.42	.32
SN74CBT3345CPWR	296-19220-2-ND	8-Bit FET Bus Switch	20-TSSOP	372.00/2,000		
SN74CBT3345CRGYR	296-19221-1-ND	8-Bit FET Bus Switch	20-QFN	.80	.60	.45
SN74CBT3345CRGYR	296-19221-2-ND	8-Bit FET Bus Switch	20-QFN	266.00/1,000		
SN74CBT3345DBR	296-6439-1-ND	8-Bit FET Bus Switch	20-SSOP	.64	.48	.36
SN74CBT3345DBR	296-6439-2-ND	8-Bit FET Bus Switch	20-SSOP	426.00/2,000		
SN74CBT3345DGVR	296-6440-1-ND	8-Bit FET Bus Switch	20-TVSOP	.64	.48	.36
SN74CBT3345DGVR	296-6440-2-ND	8-Bit FET Bus Switch	20-TVSOP	426.00/2,000		
SN74CBT3345DW	296-6441-5-ND	8-Bit FET Bus Switch	20-SOIC	.64	.48	.36
SN74CBT3345DWR	296-14798-1-ND	8-Bit FET Bus Switch	20-SOIC	.64	.48	.36
SN74CBT3345DWR	296-14798-2-ND	8-Bit FET Bus Switch	20-SOIC	426.00/2,000		
SN74CBT3345PWR	296-6442-1-ND	8-Bit FET Bus Switch	20-TSSOP	.64	.48	.36
SN74CBT3345PWR	296-6442-2-ND	8-Bit FET Bus Switch	20-TSSOP	426.00/2,000		
SN74CBT3383CDBQR	296-19222-1-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	.64	.48	.36
SN74CBT3383CDBQR	296-19222-2-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	520.00/2,500		
SN74CBT3383CDBR	296-19223-1-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	.64	.48	.36
SN74CBT3383CDBR	296-19223-2-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	426.00/2,000		
SN74CBT3383CDGVR	296-19224-1-ND	10-Bit FET Bus-Exchange Switch	24-TVSOP	.80	.60	.45
SN74CBT3383CDGVR	296-19224-2-ND	10-Bit FET Bus-Exchange Switch	24-TVSOP	532.00/2,000		
SN74CBT3383CDWR	296-19225-1-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	.64	.48	.36
SN74CBT3383CDWR	296-19225-2-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	426.00/2,000		
SN74CBT3383CPWR	296-19226-1-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	.64	.48	.36
SN74CBT3383CPWR	296-19226-2-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	426.00/2,000		
SN74CBT3383DBQR	296-6443-1-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	.56	.42	.32
SN74CBT3383DBQR	296-6443-2-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	455.00/2,500		
SN74CBT3383DBR	296-6444-1-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	.56	.42	.32
SN74CBT3383DBR	296-6444-2-ND	10-Bit FET Bus-Exchange Switch	24-SSOP	372.00/2,000		
SN74CBT3383DW	296-6445-5-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	.56	.42	.32
SN74CBT3383DWR	296-14799-1-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	.56	.42	.32
SN74CBT3383DWR	296-14799-2-ND	10-Bit FET Bus-Exchange Switch	24-SOIC	372.00/2,000		
SN74CBT3383PWR	296-6446-1-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	.56	.42	.32
SN74CBT3383PWR	296-6446-2-ND	10-Bit FET Bus-Exchange Switch	24-TSSOP	372.00/2,000		
SN74CBT3384ADBQR	296-6447-1-ND	10-Bit FET Bus Switch	24-SSOP	.56	.42	.32
SN74CBT3384ADBQR	296-6447-2-ND	10-Bit FET Bus Switch	24-SSOP	455.00/2,500		
SN74CBT3384ADBR	296-6448-1-ND	10-Bit FET Bus Switch	24-SSOP	.56	.42	.32
SN74CBT3384ADBR	296-6448-2-ND	10-Bit FET Bus Switch	24-SSOP	372.00/2,000		
SN74CBT3384ADGVR	296-6449-1-ND	10-Bit FET Bus Switch	24-TVSOP	.80	.60	.45
SN74CBT3384ADGVR	296-6449-2-ND	10-Bit FET Bus Switch	24-TVSOP	532.00/2,000		
SN74CBT3384ADW	296-1169-5-ND	10-Bit FET Bus Switch	24-SOIC	.56	.42	.32
SN74CBT3384ADWR	296-1169-1-ND	10-Bit FET Bus Switch	24-SOIC	.56	.42	.32
SN74CBT3384ADWR	296-1169-2-ND	10-Bit FET Bus Switch	24-SOIC	372.00/2,000		
SN74CBT3384APWR	296-1170-1-ND	10-Bit FET Bus Switch	24-TSSOP	.56	.42	.32
SN74CBT3384APWR	296-1170-2-ND	10-Bit FET Bus Switch	24-TSSOP	372.00/2,000		
SN74CBT3384CDBQR	296-19227-1-ND	10-Bit FET Bus Switch	24-SSOP	.56	.42	.32
SN74CBT3384CDBQR	296-19227-2-ND	10-Bit FET Bus Switch	24-SSOP	455.00/2,500		
SN74CBT3384CDBR	296-19228-1-ND	10-Bit FET Bus Switch	24-SSOP	.56	.42	.32
SN74CBT3384CDBR	296-19228-2-ND	10-Bit FET Bus Switch	24-SSOP	372.00/2,000		
SN74CBT3384CDGVR	296-19229-1-ND	10-Bit FET Bus Switch	24-TVSOP	.80	.60	.45
SN74CBT3384CDGVR	296-19229-2-ND	10-Bit FET Bus Switch	24-TVSOP	532.00/2,000		
SN74CBT3384CDWR	296-19230-1-ND	10-Bit FET Bus Switch	24-SOIC	.56	.42	.32
SN74CBT3384CDWR	296-19230-2-ND	10-Bit FET Bus Switch	24-SOIC	372.00/2,000		
SN74CBT3384CPWR	296-19231-1-ND	10-Bit FET Bus Switch	24-TSSOP	.56	.42	.32
SN74CBT3384CPWR	296-19231-2-ND	10-Bit FET Bus Switch	24-TSSOP	372.00/2,000		
SN74CBT3861DBQR	296-6450-1-ND	10-Bit FET Bus Switch	24-SSOP	1.38	1.10	.83
SN74CBT3861DBQR	296-6450-2-ND	10-Bit FET Bus Switch	24-SSOP	1760.00/2,500		
SN74CBT3861DGVR	296-6451-1-ND	10-Bit FET Bus Switch	24-TVSOP	1.38	1.10	.83

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBT3861DGVR	296-6451-2-ND	10-Bit FET Bus Switch	24-TVSOP	1430.00/2,000		
SN74CBT3861DWR	296-6452-1-ND	10-Bit FET Bus Switch	24-SOIC	1.38	1.10	.83
SN74CBT3861DWR	296-6452-2-ND	10-Bit FET Bus Switch	24-SOIC	1430.00/2,000		
SN74CBT3861PWR	296-6453-1-ND	10-Bit FET Bus Switch	24-TSSOP	1.38	1.10	.83
SN74CBT3861PWR	296-6453-2-ND	10-Bit FET Bus Switch	24-TSSOP	1430.00/2,000		
SN74CBT6800ADBQR	296-6454-1-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	1.63	1.30	.98
SN74CBT6800ADBQR	296-6454-2-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	2080.00/2,500		
SN74CBT6800ADBR	296-6455-1-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	1.63	1.30	.98
SN74CBT6800ADBR	296-6455-2-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	1690.00/2,000		
SN74CBT6800ADGVR	296-6456-1-ND	10-Bit FET Bus Switch with Precharged Output	24-TVSOP	1.63	1.30	.98
SN74CBT6800ADGVR	296-6456-2-ND	10-Bit FET Bus Switch with Precharged Output	24-TVSOP	1690.00/2,000		
SN74CBT6800ADW	296-6457-5-ND	10-Bit FET Bus Switch with Precharged Output	24-SOIC	1.63	1.30	.98
SN74CBT6800ADWR	296-6457-1-ND	10-Bit FET Bus Switch with Precharged Output	24-SOIC	1.63	1.30	.98
SN74CBT6800ADWR	296-6457-2-ND	10-Bit FET Bus Switch with Precharged Output	24-SOIC	1690.00/2,000		
SN74CBT6800APWR	296-6458-1-ND	10-Bit FET Bus Switch with Precharged Output	24-TSSOP	1.63	1.30	.98
SN74CBT6800APWR	296-6458-2-ND	10-Bit FET Bus Switch with Precharged Output	24-TSSOP	1690.00/2,000		
SN74CBT6800CDBQR	296-19232-1-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	1.63	1.30	.98
SN74CBT6800CDBQR	296-19232-2-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	2080.00/2,500		
SN74CBT6800CDBR	296-19233-1-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	1.63	1.30	.98
SN74CBT6800CDBR	296-19233-2-ND	10-Bit FET Bus Switch with Precharged Output	24-SSOP	1690.00/2,000		
SN74CBT6800CDGVR	296-19234-1-ND	10-Bit FET Bus Switch with Precharged Output	24-TVSOP	1.63	1.30	.98
SN74CBT6800CDGVR	296-19234-2-ND	10-Bit FET Bus Switch with Precharged Output	24-TVSOP	1690.00/2,000		
SN74CBT6800CDWR	296-19235-1-ND	10-Bit FET Bus Switch with Precharged Output	24-SOIC	1.63	1.30	.98
SN74CBT6800CDWR	296-19235-2-ND	10-Bit FET Bus Switch with Precharged Output	24-SOIC	1690.00/2,000		
SN74CBT6800CPWR	296-19236-1-ND	10-Bit FET Bus Switch with Precharged Output	24-TSSOP	1.63	1.30	.98
SN74CBT6800CPWR	296-19236-2-ND	10-Bit FET Bus Switch with Precharged Output	24-TSSOP	1690.00/2,000		
SN74CBT6845CDBQR	296-19237-1-ND	8-Bit FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT6845CDBQR	296-19237-2-ND	8-Bit FET Bus Switch	20-SSOP	455.00/2,500		
SN74CBT6845CDBR	296-19238-1-ND	8-Bit FET Bus Switch	20-SSOP	.56	.42	.32
SN74CBT6845CDBR	296-19238-2-ND	8-Bit FET Bus Switch	20-SSOP	372.00/2,000		
SN74CBT6845CDGVR	296-19239-1-ND	8-Bit FET Bus Switch	20-TVSOP	.72	.54	.41
SN74CBT6845CDGVR	296-19239-2-ND	8-Bit FET Bus Switch	20-TVSOP	478.00/2,000		
SN74CBT6845CDWR	296-19240-1-ND	8-Bit FET Bus Switch	20-SOIC	.56	.42	.32
SN74CBT6845CDWR	296-19240-2-ND	8-Bit FET Bus Switch	20-SOIC	372.00/2,000		
SN74CBT6845CPWR	296-19241-1-ND	8-Bit FET Bus Switch	20-TSSOP	.56	.42	.32
SN74CBT6845CPWR	296-19241-2-ND	8-Bit FET Bus Switch	20-TSSOP	372.00/2,000		
SN74CBT6845CRGYR	296-19242-1-ND	8-Bit FET Bus Switch	20-QFN	.72	.54	.41
SN74CBT6845CRGYR	296-19242-2-ND	8-Bit FET Bus Switch	20-QFN	239.00/1,000		
SN74CBT16209ADGGR	296-1156-1-ND	18-Bit FET Bus-Exchange Switch	48-TSSOP	1.50	1.20	.90
SN74CBT16209ADGGR	296-1156-2-ND	18-Bit FET Bus-Exchange Switch	48-TSSOP	1560.00/2,000		
SN74CBT16209ADGVR	296-6385-1-ND	18-Bit FET Bus-Exchange Switch	48-TVSOP	1.50	1.20	.90
SN74CBT16209ADGVR	296-6385-2-ND	18-Bit FET Bus-Exchange Switch	48-TVSOP	1560.00/2,000		
SN74CBT16209ADL	296-1531-5-ND	18-Bit FET Bus-Exchange Switch	48-SSOP	1.50	1.20	.90
SN74CBT16210CDGGR	296-19164-1-ND	20-Bit FET Bus Switch	48-TSSOP	1.35	1.13	.90
SN74CBT16210CDGGR	296-19164-2-ND	20-Bit FET Bus Switch	48-TSSOP	1198.00/2,000		
SN74CBT16210CDGVR	296-19165-1-ND	20-Bit FET Bus Switch	48-TVSOP	1.35	1.13	.90
SN74CBT16210CDGVR	296-19165-2-ND	20-Bit FET Bus Switch	48-TVSOP	1198.00/2,000		
SN74CBT16210CDLR	296-19166-1-ND	20-Bit FET Bus Switch	48-SSOP	1.35	1.13	.90
SN74CBT16210CDLR	296-19166-2-ND	20-Bit FET Bus Switch	48-SSOP	599.00/1,000		
SN74CBT16210DGGR	296-6386-1-ND	20-Bit FET Bus Switch	48-TSSOP	1.35	1.13	.90
SN74CBT16210DGGR	296-6386-2-ND	20-Bit FET Bus Switch	48-TSSOP	1198.00/2,000		
SN74CBT16210DGVR	296-6387-1-ND	20-Bit FET Bus Switch	48-TVSOP	1.35	1.13	.90
SN74CBT16210DGVR	296-6387-2-ND	20-Bit FET Bus Switch	48-TVSOP	1198.00/2,000		
SN74CBT16210DL	296-6388-5-ND	20-Bit FET Bus Switch	48-SSOP	1.35	1.13	.90
SN74CBT16210DLR	296-6388-1-ND	20-Bit FET Bus Switch	48-SSOP	1.35	1.13	.90
SN74CBT16210DLR	296-6388-2-ND	20-Bit FET Bus Switch	48-SSOP	599.00/1,000		
SN74CBT16211ADGGR	296-1157-1-ND	24-Bit FET Bus Switch	56-TSSOP	1.35	1.13	.90
SN74CBT16211ADGGR	296-1157-2-ND	24-Bit FET Bus Switch	56-TSSOP	1198.00/2,000		
SN74CBT16211ADGVR	296-6389-1-ND	24-Bit FET Bus Switch	56-TVSOP	1.50	1.20	.90
SN74CBT16211ADGVR	296-6389-2-ND	24-Bit FET Bus Switch	56-TVSOP	1560.00/2,000		
SN74CBT16211ADL	296-1532-5-ND	24-Bit FET Bus Switch	56-SSOP	1.35	1.13	.90
SN74CBT16211ADLR	296-1532-1-ND	24-Bit FET Bus Switch	56-SSOP	1.35	1.13	.90
SN74CBT16211ADLR	296-1532-2-ND	24-Bit FET Bus Switch	56-SSOP	599.00/1,000		
SN74CBT16211AGQLR	296-9806-1-ND	24-Bit FET Bus Switch	56-VFBGA	2.25	1.80	1.35
SN74CBT16211AGQLR	296-9806-2-ND	24-Bit FET Bus Switch	56-VFBGA	1170.00/1,000		
SN74CBT16211CDGGR	296-19167-1-ND	24-Bit FET Bus Switch	56-TSSOP	1.35	1.13	.90
SN74CBT16211CDGGR	296-19167-2-ND	24-Bit FET Bus Switch	56-TSSOP	1198.00/2,000		
SN74CBT16211CDGVR	296-19168-1-ND	24-Bit FET Bus Switch	56-TVSOP	1.38	1.10	.83
SN74CBT16211CDGVR	296-19168-2-ND	24-Bit FET Bus Switch	56-TVSOP	1430.00/2,000		
SN74CBT16211CDLR	296-19169-1-ND	24-Bit FET Bus Switch	56-SSOP	1.35	1.13	.90
SN74CBT16211CDLR	296-19169-2-ND	24-Bit FET Bus Switch	56-SSOP	599.00/1,000		
SN74CBT16212ADGGR	296-1158-1-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1.50	1.20	.90
SN74CBT16212ADGGR	296-1158-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1560.00/2,000		
SN74CBT16212ADGVR	296-6390-1-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	1.55	1.24	.93
SN74CBT16212ADGVR	296-6390-2-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	1612.00/2,000		
SN74CBT16212ADLR	296-1159-1-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	1.50	1.20	.90
SN74CBT16212ADLR	296-1159-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	780.00/1,000		
SN74CBT16212AGQLR	296-9807-1-ND	24-Bit FET Bus-Exchange Switch	56-VFBGA	2.70	2.16	1.68
SN74CBT16212AGQLR	296-9807-2-ND	24-Bit FET Bus-Exchange Switch	56-VFBGA	1530.00/1,000		
SN74CBT16212CDGGR	296-19170-1-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1.35	1.08	.81
SN74CBT16212CDGGR	296-19170-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1404.00/2,000		
SN74CBT16212CDGVR	296-19171-1-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	1.35	1.08	.81
SN74CBT16212CDGVR	296-19171-2-ND	24-Bit FET Bus-Exchange Switch	56-TVSOP	1404.00/2,000		
SN74CBT16212CDLR	296-19172-1-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	1.35	1.08	.81
SN74CBT16212CDLR	296-19172-2-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	702.00/1,000		
SN74CBT16213DGGR	296-6391-1-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1.30	1.04	.78
SN74CBT16213DGGR	296-6391-2-ND	24-Bit FET Bus-Exchange Switch	56-TSSOP	1352.00/2,000		
SN74CBT16213DL	296-6392-5-ND	24-Bit FET Bus-Exchange Switch	56-SSOP	1.30	1.04	.78
SN74CBT16214CDGGR	296-19173-1-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1.25	1.00	.75
SN74CBT16214CDGGR	296-19173-2-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1300.00/2,000		
SN74CBT16214CDLR	296-19174-1-ND	12-Bit, 1-of-3 FET Mux/Demux	56-SSOP	1.25	1.00	.75
SN74CBT16214CDLR	296-19174-2-ND	12-Bit, 1-of-3 FET Mux/Demux	56-SSOP	650.00/1,000		
SN74CBT16214DGGR	296-6393-1-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1.38	1.10	.83
SN74CBT16214DGGR	296-6393-2-ND	12-Bit, 1-of-3 FET Mux/Demux	56-TSSOP	1430.00/2,000		
SN74CBT16232DGGR	296-6395-1-ND	Synchronous 16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1.25	1.00	.75
SN74CBT16232DGGR	296-6395-2-ND	Synchronous 16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1300.00/2,000		
SN74CBT16232DLR	296-6396-1-ND	Synchronous 16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1.25	1.00	.75
SN74CBT16232DLR	296-6396-2-ND	Synchronous 16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	650.00/1,000		
SN74CBT16233DGGR	296-1161-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1.35	1.13	.90
SN74CBT16233DGGR	296-1161-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	1198.00/2,000		
SN74CBT16233DGVR	296-6397-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	1.25	1.00	.75
SN74CBT16233DGVR	296-6397-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	1300.00/2,000		
SN74CBT16233DLR	296-6398-1-ND	16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1.25	1.00	.75
SN74CBT16233DLR	296-6398-2-ND	16-Bit, 1-of-2 FET Mux/Demux	56-SSOP	650.00/1,000		
SN74CBT16244CDGGR	296-19175-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.25	1.00	.75
SN74CBT16244CDGGR	296-19175-2-ND	16-Bit FET Bus Switch	48-TSSOP	1300.00/2,000		
SN74CBT16244CDGVR	296-19176-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.25	1.00	.75
SN74CBT16244CDGVR	296-19176-2-ND	16-Bit FET Bus Switch	48-TVSOP	1300.00/2,000		
SN74CBT16244CDLR	296-19177-1-ND	16-Bit FET Bus Switch	48-SSOP	1.25	1.00	.75
SN74CBT16244CDLR	296-19177-2-ND	16-Bit FET Bus Switch	48-SSOP	650.00/1,000		
SN74CBT16244DGGR	296-6399-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.25	1.00	.75
SN74CBT16244DGGR	296-6399-2-ND	16-Bit FET Bus Switch	48-TSSOP	1300.00/2,000		
SN74CBT16244DGVR	296-6400-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.25	1.00	.75
SN74CBT16244DGVR	296-6400-2-ND	16-Bit FET Bus Switch	48-TVSOP	1300.00/2,000		
SN74CBT16244DLR	296-6401-1-ND	16-Bit FET Bus Switch	48-SSOP	1.25	1.00	.75
SN74CBT16244DLR	296-6401-2-ND	16-Bit FET Bus Switch	48-SSOP	650.00/1,000		
SN74CBT16245CDGGR	296-19178-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.25	1.00	.75
SN74CBT16245CDGGR	296-19178-2-ND	16-Bit FET Bus Switch	48-TSSOP	1300.00/2,000		
SN74CBT16245CDGVR	296-19179-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.25	1.00	.75
SN74CBT16245CDGVR	296-19179-2-ND	16-Bit FET Bus Switch	48-TVSOP	1300.00/2,000		
SN74CBT16245CDLR	296-19180-1-ND	16-Bit FET Bus Switch	48-SSOP	1.25	1.00	.75
SN74CBT16245CDLR	296-19180-2-ND	16-Bit FET Bus Switch	48-SSOP	650.00/1,000		
SN74CBT16245DGGR	296-6402-1-ND	16-Bit FET Bus Switch	48-TSSOP	1.25	1.00	.75
SN74CBT16245DGGR	296-6402-2-ND	16-Bit FET Bus Switch	48-TSSOP	1300.00/2,000		
SN74CBT16245DGVR	296-6403-1-ND	16-Bit FET Bus Switch	48-TVSOP	1.25	1.00	.75
SN74CBT16245DGVR	296-6403-2-ND	16-Bit FET Bus Switch	48-TVSOP	1300.00/2,000		
SN74CBT16245DLR	296-6404-1-ND	16-Bit FET Bus Switch	48-SSOP	1.25	1.00	.75
SN74CBT16245DLR	296-6404-2-ND	16-Bit FET Bus Switch	48-SSOP	650.00/1,000		
SN74CBT16292DGGR	296-1162-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	1.38	1.10	.83
SN74CBT16292DGGR	296-1162-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	1430.00/2,000		
SN74CBT16292DGVR	296-6405-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	1.38	1.10	.83
SN74CBT16292DGVR	296-6405-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	1430.00/2,000		
SN74CBT16292DL	296-1534-5-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	1.38	1.10	.83
SN74CBT16292DLR	296-1534-1-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	1.38	1.10	.83
SN74CBT16292DLR	296-1534-2-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	715.00/1,000		
SN74CBT16390DGGR	296-1163-1-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TSSOP	5.06	4.05	3.42
SN74CBT16390DGGR	296-1163-2-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TSSOP	6326.00/2,000		
SN74CBT16390DGVR	296-6406-1-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TVSOP	5.06	4.05	3.42
SN74CBT16390DGVR	296-6406-2-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-TVSOP	6326.00/2,000		
SN74CBT16390DL	296-1535-5-ND	16-Bit to 32-Bit, FET Mux/Demux Bus Switch	56-SSOP	5.06	4.05	3.42
SN74CBT16800CDGGR	296-19181-1-ND	20-Bit FET Bus Switch	48-TSSOP	1.25	1.00	.75
SN74CBT16800CDGGR	296-19181-2-ND	20-Bit FET Bus Switch	48-TSSOP	1300.00/2,000		
SN74CBT16800CDGVR	296-19182-1-ND	20-Bit FET Bus Switch	48-TVSOP	1.25	1.00	.75
SN74CBT16800CDGVR	296-19182-2-ND	20-Bit FET Bus Switch	48-TVSOP	1300.00/2,000		
SN74CBT16800CDLR	296-19183-1-ND	20-Bit FET Bus Switch	48-SSOP	1.25	1.00	.75
SN74CBT16800CDLR	296-19183-2-ND	20-Bit FET Bus Switch	48-SSOP	650.00/1,000		
SN74CBT16811CDGGR	296-19184-1-ND	24-Bit FET Bus Switch	56-TSSOP	1.25	1.00	.75
SN74CBT16811CDGGR	296-19184-2-ND	24-Bit FET Bus Switch	56-TSSOP	1300.00/2,000		
SN74CBT16811CDGVR	296-19185-1-ND	24-Bit FET Bus Switch	56-TVSOP	1.25	1.00	.75
SN74CBT16811CDGVR	296-19185-2-ND	24-Bit FET Bus Switch	56-TVSOP	1300.00/2,000		
SN74CBT16811CDLR	296-19186-1-ND	24-Bit FET Bus Switch	56-SSOP	1.25	1.00	.75
SN74CBT16811CDLR	296-19186-2-ND	24-Bit FET Bus Switch	56-SSOP	650.00/1,000		
SN74CBT16861DGGR	296-6407-1-ND	20-Bit FET Bus Switch	48-TSSOP	2.48	1.98	1.54
SN74CBT16861DGGR	296-6407-2-ND	20-Bit FET Bus Switch	48-TSSOP	2806.00/2,000		
SN74CBT16861DGVR	296-6408-1-ND	20-Bit FET Bus Switch	48-TVSOP	2.48	1.98	1.54
SN74CBT16861DGVR	296-6408-2-ND	20-Bit FET Bus Switch	48-TVSOP	2806.00/2,000		
SN74CBT16861DLR	296-6409-1-ND	20-Bit FET Bus Switch	48-SSOP	2.48	1.98	1.54
SN74CBT16861DLR	296-6409-2-ND	20-Bit FET Bus Switch	48-SSOP	1403.00/1,000		
SN74CBT162292DGGR	296-1160-1-ND	12-Bit, 1-of-2 FET Mux/Demux w/Internal Pulldown Resistor	56-TSSOP	2.70	2.16	1.68
SN74CBT162292DGGR	296-1160-2-ND	12-Bit, 1-of-2 FET Mux/Demux w/Internal Pulldown Resistor	56-TSSOP	3060.00/2,000		
SN74CBT162292DGVR	296-12881-1-ND	12-Bit, 1-of-2 FET Mux/Demux w/Internal Pulldown Resistor	56-TVSOP	2.70	2.16	1.68
SN74CBT162292DGVR	296-12881-2-ND	12-Bit, 1-of-2 FET Mux/Demux w/Internal Pulldown Resistor	56-TVSOP	3060.00/2,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74CBT162292DL	296-1533-5-ND	12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	2.70	2.16	1.68
SN74CBTD1G125DBVR	296-12211-1-ND	Single FET Bus Switch w/Level Shifting	SOT-23-5	.55	.44	.33
SN74CBTD1G125DBVR	296-12211-2-ND	Single FET Bus Switch w/Level Shifting	SOT-23-5	447.00/3,000		
SN74CBTD1G125DCKR	296-6476-1-ND	Single FET Bus Switch with Level Shifting	SC70-5	.55	.44	.33
SN74CBTD1G125DCKR	296-6476-2-ND	Single FET Bus Switch with Level Shifting	SC70-5	447.00/3,000		
SN74CBTD1G384DBVR	296-12415-1-ND	Single FET Bus Switch w/Level Shifting	SOT-23-5	.55	.44	.33
SN74CBTD1G384DBVR	296-12415-2-ND	Single FET Bus Switch w/Level Shifting	SOT-23-5	447.00/3,000		
SN74CBTD1G384DCKR	296-12416-1-ND	Single FET Bus Switch with Level Shifting	SC70-5	.55	.44	.33
SN74CBTD1G384DCKR	296-12416-2-ND	Single FET Bus Switch with Level Shifting	SC70-5	447.00/3,000		
SN74CBTD3305CDR	296-19243-1-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	.56	.42	.32
SN74CBTD3305CDR	296-19243-2-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	455.00/2,500		
SN74CBTD3305CPWR	296-17508-1-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	.56	.42	.32
SN74CBTD3305CPWR	296-17508-2-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	372.00/2,000		
SN74CBTD3306CDR	296-19244-1-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	.56	.42	.32
SN74CBTD3306CDR	296-19244-2-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	455.00/2,500		
SN74CBTD3306CPWR	296-17989-1-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	.56	.42	.32
SN74CBTD3306CPWR	296-17989-2-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	372.00/2,000		
SN74CBTD3306D	296-6477-5-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	.56	.42	.32
SN74CBTD3306DR	296-14800-1-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	.56	.42	.32
SN74CBTD3306DR	296-14800-2-ND	Dual FET Bus Switch with Level Shifting	8-SOIC	455.00/2,500		
SN74CBTD3306PWR	296-6478-1-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	.56	.42	.32
SN74CBTD3306PWR	296-6478-2-ND	Dual FET Bus Switch with Level Shifting	8-TSSOP	372.00/2,000		
SN74CBTD3384CDBQR	296-18052-1-ND	10-Bit FET Bus Switch with Level Shifting	24-SSOP	.64	.48	.36
SN74CBTD3384CDBQR	296-18052-2-ND	10-Bit FET Bus Switch with Level Shifting	24-SSOP	520.00/2,500		
SN74CBTD3384CDBR	296-17537-1-ND	10-Bit FET Bus Switch with Level Shifting	24-SSOP	.64	.48	.36
SN74CBTD3384CDBR	296-17537-2-ND	10-Bit FET Bus Switch with Level Shifting	24-SSOP	426.00/2,000		
SN74CBTD3384CDGVR	296-19245-1-ND	10-Bit FET Bus Switch with Level Shifting	24-TVSOP	.75	.63	.50
SN74CBTD3384CDGVR	296-19245-2-ND	10-Bit FET Bus Switch with Level Shifting	24-TVSOP	666.00/2,000		
SN74CBTD3384CDWR	296-19246-1-ND	10-Bit FET Bus Switch with Level Shifting	24-SOIC	.64	.48	.36
SN74CBTD3384CDWR	296-19246-2-ND	10-Bit FET Bus Switch with Level Shifting	24-SOIC	426.00/2,000		
SN74CBTD3384CPWR	296-17538-1-ND	10-Bit FET Bus Switch with Level Shifting	24-TSSOP	.64	.48	.36
SN74CBTD3384CPWR	296-17538-2-ND	10-Bit FET Bus Switch with Level Shifting	24-TSSOP	426.00/2,000		
SN74CBTD3384DBQR	296-6479-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	.64	.48	.36
SN74CBTD3384DBQR	296-6479-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	520.00/2,500		
SN74CBTD3384DBR	296-6480-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	.64	.48	.36
SN74CBTD3384DBR	296-6480-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	426.00/2,000		
SN74CBTD3384DGVR	296-6481-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	.92	.69	.52
SN74CBTD3384DGVR	296-6481-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	612.00/2,000		
SN74CBTD3384DW	296-6482-5-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	.72	.54	.41
SN74CBTD3384DWR	296-6482-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	.64	.48	.36
SN74CBTD3384DWR	296-6482-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	426.00/2,000		
SN74CBTD3384PWR	296-1173-1-ND	10-Bit FET Bus Switch with Level Shifting	24-TSSOP	.64	.48	.36
SN74CBTD3384PWR	296-1173-2-ND	10-Bit FET Bus Switch with Level Shifting	24-TSSOP	426.00/2,000		
SN74CBTD3861DBQR	296-6483-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	.64	.48	.36
SN74CBTD3861DBQR	296-6483-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	520.00/2,500		
SN74CBTD3861DBR	296-6484-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	.64	.48	.36
SN74CBTD3861DBR	296-6484-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-SSOP	426.00/2,000		
SN74CBTD3861DGVR	296-6485-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	.80	.60	.45
SN74CBTD3861DGVR	296-6485-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TVSOP	532.00/2,000		
SN74CBTD3861DW	296-6486-5-ND	10-Bit FET Bus Switch w/Level Shifting	24-SOIC	.64	.48	.36
SN74CBTD3861PWR	296-6487-1-ND	10-Bit FET Bus Switch w/Level Shifting	24-TSSOP	.64	.48	.36
SN74CBTD3861PWR	296-6487-2-ND	10-Bit FET Bus Switch w/Level Shifting	24-TSSOP	426.00/2,000		
SN74CBTD16210DGGR	296-1171-1-ND	20-Bit FET Bus Switch w/Level Shifting	48-TSSOP	2.48	1.98	1.54
SN74CBTD16210DGGR	296-1171-2-ND	20-Bit FET Bus Switch w/Level Shifting	48-TSSOP	2806.00/2,000		
SN74CBTD16210DGVR	296-6474-1-ND	20-Bit FET Bus Switch w/Level Shifting	48-TVSOP	2.48	1.98	1.54
SN74CBTD16210DGVR	296-6474-2-ND	20-Bit FET Bus Switch w/Level Shifting	48-TVSOP	2806.00/2,000		
SN74CBTD16210DL	296-1541-5-ND	20-Bit FET Bus Switch w/Level Shifting	48-SSOP	2.48	1.98	1.54
SN74CBTD16210DLR	296-1541-1-ND	20-Bit FET Bus Switch w/Level Shifting	48-SSOP	2.48	1.98	1.54
SN74CBTD16210DLR	296-1541-2-ND	20-Bit FET Bus Switch w/Level Shifting	48-SSOP	1403.00/1,000		
SN74CBTD16211DGGR	296-1172-1-ND	24-Bit FET Bus Switch w/Level Shifting	56-TSSOP	2.70	2.16	1.68
SN74CBTD16211DGGR	296-1172-2-ND	24-Bit FET Bus Switch w/Level Shifting	56-TSSOP	3060.00/2,000		
SN74CBTD16211DGVR	296-6475-1-ND	24-Bit FET Bus Switch w/Level Shifting	56-TVSOP	2.70	2.16	1.68
SN74CBTD16211DGVR	296-6475-2-ND	24-Bit FET Bus Switch w/Level Shifting	56-TVSOP	3060.00/2,000		
SN74CBTD16211DL	296-1542-5-ND	24-Bit FET Bus Switch w/Level Shifting	56-SSOP	2.70	2.16	1.68
SN74CBTH16211DGGR	296-6461-1-ND	24-Bit FET Bus Switch with Bus Hold	56-TSSOP	2.97	2.38	1.85
SN74CBTH16211DGGR	296-6461-2-ND	24-Bit FET Bus Switch with Bus Hold	56-TSSOP	3366.00/2,000		
SN74CBTH16211DL	296-1543-5-ND	24-Bit FET Bus Switch with Bus Hold	56-SSOP	2.97	2.38	1.85
SN74CBTK6800DBQR	296-6492-1-ND	10-Bit FET Bus Switch	24-SSOP	1.63	1.30	.98
SN74CBTK6800DBQR	296-6492-2-ND	10-Bit FET Bus Switch	24-SSOP	2080.00/2,500		
SN74CBTK6800DGVR	296-6493-1-ND	10-Bit FET Bus Switch	24-TVSOP	1.63	1.30	.98
SN74CBTK6800DGVR	296-6493-2-ND	10-Bit FET Bus Switch	24-TVSOP	1690.00/2,000		
SN74CBTK6800DWR	296-6494-1-ND	10-Bit FET Bus Switch	24-SOIC	1.63	1.30	.98
SN74CBTK6800DWR	296-6494-2-ND	10-Bit FET Bus Switch	24-SOIC	1690.00/2,000		
SN74CBTK6800PWR	296-6495-1-ND	10-Bit FET Bus Switch	24-TSSOP	1.63	1.30	.98
SN74CBTK6800PWR	296-6495-2-ND	10-Bit FET Bus Switch	24-TSSOP	1690.00/2,000		
SN74CBTK16245DGGR	296-6488-1-ND	16-Bit FET Bus Switch	48-TSSOP	3.47	2.78	2.16
SN74CBTK16245DGGR	296-6488-2-ND	16-Bit FET Bus Switch	48-TSSOP	3928.00/2,000		
SN74CBTK16245DGVR	296-6489-1-ND	16-Bit FET Bus Switch	48-TVSOP	3.47	2.78	2.16
SN74CBTK16245DGVR	296-6489-2-ND	16-Bit FET Bus Switch	48-TVSOP	3928.00/2,000		
SN74CBTK16245DLR	296-6490-1-ND	16-Bit FET Bus Switch	48-SSOP	3.47	2.78	2.16
SN74CBTK16245DLR	296-6490-2-ND	16-Bit FET Bus Switch	48-SSOP	1964.00/1,000		
SN74CBTK32245GKER	296-6491-1-ND	32-Bit FET Bus Switch	96-LFBGA	6.00	4.80	4.05
SN74CBTK32245GKER	296-6491-2-ND	32-Bit FET Bus Switch	96-LFBGA	3750.00/1,000		
SN74CBTLV1G125DBVR	296-9109-1-ND	Low Voltage Single FET Bus Switch	SOT-23-5	.60	.45	.34
SN74CBTLV1G125DBVR	296-9109-2-ND	Low Voltage Single FET Bus Switch	SOT-23-5	585.00/3,000		
SN74CBTLV1G125DCKR	296-9110-1-ND	Low Voltage Single FET Bus Switch	SC70-5	.60	.45	.34
SN74CBTLV1G125DCKR	296-9110-2-ND	Low Voltage Single FET Bus Switch	SC70-5	585.00/3,000		
SN74CBTLV3125DBQR	296-9111-1-ND	Low Voltage Quad FET Bus Switch	16-SSOP	.88	.66	.50
SN74CBTLV3125DBQR	296-9111-2-ND	Low Voltage Quad FET Bus Switch	16-SSOP	715.00/2,500		
SN74CBTLV3125DGVR	296-9112-1-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	.88	.66	.50
SN74CBTLV3125DGVR	296-9112-2-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	586.00/2,000		
SN74CBTLV3125DR	296-9113-1-ND	Low Voltage Quad FET Bus Switch	14-SOIC	.88	.66	.50
SN74CBTLV3125DR	296-9113-2-ND	Low Voltage Quad FET Bus Switch	14-SOIC	715.00/2,500		
SN74CBTLV3125PWR	296-9114-1-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	.88	.66	.50
SN74CBTLV3125PWR	296-9114-2-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	586.00/2,000		
SN74CBTLV3125RGYR	296-15103-1-ND	Low Voltage Quad FET Bus Switch	14-QFN	.81	.68	.54
SN74CBTLV3125RGYR	296-15103-2-ND	Low Voltage Quad FET Bus Switch	14-QFN	359.00/1,000		
SN74CBTLV3126DBQR	296-9115-1-ND	Low Voltage Quad FET Bus Switch	16-SSOP	.88	.66	.50
SN74CBTLV3126DBQR	296-9115-2-ND	Low Voltage Quad FET Bus Switch	16-SSOP	715.00/2,500		
SN74CBTLV3126DGVR	296-9116-1-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	.88	.66	.50
SN74CBTLV3126DGVR	296-9116-2-ND	Low Voltage Quad FET Bus Switch	14-TVSOP	586.00/2,000		
SN74CBTLV3126DR	296-9117-1-ND	Low Voltage Quad FET Bus Switch	14-SOIC	.88	.66	.50
SN74CBTLV3126DR	296-9117-2-ND	Low Voltage Quad FET Bus Switch	14-SOIC	715.00/2,500		
SN74CBTLV3126PWR	296-9118-1-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	.88	.66	.50
SN74CBTLV3126PWR	296-9118-2-ND	Low Voltage Quad FET Bus Switch	14-TSSOP	586.00/2,000		
SN74CBTLV3126RGYR	296-15104-1-ND	Low Voltage Quad FET Bus Switch	14-QFN	.81	.68	.54
SN74CBTLV3126RGYR	296-15104-2-ND	Low Voltage Quad FET Bus Switch	14-QFN	359.00/1,000		
SN74CBTLV3245ADBQR	296-9119-1-ND	Low Voltage Octal FET Bus Switch	20-SSOP	.88	.66	.50
SN74CBTLV3245ADBQR	296-9119-2-ND	Low Voltage Octal FET Bus Switch	20-SSOP	715.00/2,500		
SN74CBTLV3245ADGVR	296-9120-1-ND	Low Voltage Octal FET Bus Switch	20-TVSOP	.88	.66	.50
SN74CBTLV3245ADGVR	296-9120-2-ND	Low Voltage Octal FET Bus Switch	20-TVSOP	586.00/2,000		
SN74CBTLV3245ADW	296-1544-5-ND	Low Voltage Octal FET Bus Switch	20-SOIC	.88	.66	.50
SN74CBTLV3245ADWR	296-1544-1-ND	Low Voltage Octal FET Bus Switch	20-SOIC	.88	.66	.50
SN74CBTLV3245ADWR	296-1544-2-ND	Low Voltage Octal FET Bus Switch	20-SOIC	586.00/2,000		
SN74CBTLV3245APWR	296-9121-1-ND	Low Voltage Octal FET Bus Switch	20-TSSOP	.88	.66	.50
SN74CBTLV3245APWR	296-9121-2-ND	Low Voltage Octal FET Bus Switch	20-TSSOP	586.00/2,000		
SN74CBTLV3245ARGYR	296-17822-1-ND	Low Voltage Octal FET Bus Switch	20-QFN	.81	.68	.54
SN74CBTLV3245ARGYR	296-17822-2-ND	Low Voltage Octal FET Bus Switch	20-QFN	359.00/1,000		
SN74CBTLV3251DBQR	296-9126-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-SSOP	.88	.66	.50
SN74CBTLV3251DBQR	296-9126-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-SSOP	715.00/2,500		
SN74CBTLV3251DGVR	296-9127-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TVSOP	.88	.66	.50
SN74CBTLV3251DGVR	296-9127-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TVSOP	586.00/2,000		
SN74CBTLV3251DR	296-9128-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-SOIC	.88	.66	.50
SN74CBTLV3251DR	296-9128-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-SOIC	715.00/2,500		
SN74CBTLV3251PWR	296-9129-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TSSOP	.88	.66	.50
SN74CBTLV3251PWR	296-9129-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-TSSOP	586.00/2,000		
SN74CBTLV3251RGYR	296-15105-1-ND	Low Voltage 1-of-8 FET Mux/Demux	16-QFN	.81	.68	.54
SN74CBTLV3251RGYR	296-15105-2-ND	Low Voltage 1-of-8 FET Mux/Demux	16-QFN	359.00/1,000		
SN74CBTLV3253DBQR	296-9130-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-SSOP	.88	.66	.50
SN74CBTLV3253DBQR	296-9130-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-SSOP	715.00/2,500		
SN74CBTLV3253DGVR	296-9131-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TVSOP	.88	.66	.50
SN74CBTLV3253DGVR	296-9131-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TVSOP	586.00/2,000		
SN74CBTLV3253DR	296-9132-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-SOIC	.88	.66	.50
SN74CBTLV3253DR	296-9132-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-SOIC	715.00/2,500		
SN74CBTLV3253PWR	296-9133-1-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TSSOP	.88	.66	.50
SN74CBTLV3253PWR	296-9133-2-ND	Low Volt. Dual 1-of-4 FET Mux/Demux	16-TSSOP	586.00/2,000		
SN74CBTLV3253RGYR	296-15106-1-ND	Low Voltage Dual 1-of-4 FET Mux/Demux	16-QFN	.81	.68	.54
SN74CBTLV3253RGYR	296-15106-2-ND	Low Voltage Dual 1-of-4 FET Mux/Demux	16-QFN	359.00/1,000		
SN74CBTLV3257D	296-9134-5-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.88	.66	.50
SN74CBTLV3257DBQR	296-9135-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	.88	.66	.50
SN74CBTLV3257DBQR	296-9135-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-SSOP	715.00/2,500		
SN74CBTLV3257DGVR	296-9136-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	.88	.66	.50
SN74CBTLV3257DGVR	296-9136-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TVSOP	586.00/2,000		
SN74CBTLV3257DR	296-9137-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	.88	.66	.50
SN74CBTLV3257DR	296-9137-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-SOIC	715.00/2,500		
SN74CBTLV3257PWR	296-9138-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	.88	.66	.50
SN74CBTLV3257PWR	296-9138-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-TSSOP	586.00/2,000		
SN74CBTLV3257RGYR	296-15107-1-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-QFN	.81	.68	.54
SN74CBTLV3257RGYR	296-15107-2-ND	Low Volt. 4-Bit, 1-of-2 FET Mux/Demux	16-QFN	359.00/1,000		
SN74CBTLV3383DBQR	296-9139-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-SSOP	.88	.66	.50
SN74CBTLV3383DBQR	296-9139-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-SSOP	715.00/2,500		
SN74CBTLV3383DGVR	296-9140-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-TVSOP	1.05	.88	.70
SN74CBTLV3383DGVR	296-9140-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-TVSOP	932.00/2,000		
SN74CBTLV3383DW	296-1545-5-ND	LV 10-Bit FET Bus-Exchange Switch	24-SOIC	.88	.66	.50
SN74CBTLV3383DWR	296-1545-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-SOIC	.88	.66	.50
SN74CBTLV3383DWR	296-1545-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-SOIC	586.00/2,000		
SN74CBTLV3383PWR	296-9141-1-ND	LV 10-Bit FET Bus-Exchange Switch	24-TSSOP	.88	.66	.50
SN74CBTLV3383PWR	296-9141-2-ND	LV 10-Bit FET Bus-Exchange Switch	24-TSSOP	586.00/2,000		
SN74CBTLV3384DBQR	296-9142-1-ND	Low Voltage 10-Bit FET Bus Switch	24-SSOP	.88	.66	.50
SN74CBTLV3384DBQR	296-9142-2-ND	Low Voltage 10-Bit FET Bus Switch	24-SSOP	715.00/2,500		
SN74CBTLV3384DGVR	296-9143-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	.88	.66	.50
SN74CBTLV3384DGVR	296-9143-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	586.00/2,000		
SN74CBTLV3384DW	296-1546-5-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	.88	.66	.50
SN74CBTLV3384DWR	296-1546-1-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	.88	.66	.50
SN74CBTLV3384DWR	296-1546-2-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	586.00/2,000		
SN74CBTLV3384PWR	296-9144-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	.88	.66	.50
SN74CBTLV3384PWR	296-9144-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	586.00/2,000		
SN74CBTLV3857DBQR	296-9145-1-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-SSOP	.88	.66	.50
SN74CBTLV3857DBQR	296-9145-2-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-SSOP	715.00/2,500		
SN74CBTLV3857DGVR	296-9146-1-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-TVSOP	.88	.66	.50
SN74CBTLV3857DGVR	296-9146-2-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-TVSOP	586.00/2,000		
SN74CBTLV3857DW	296-9147-5-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-SOIC	.88	.66	.50
SN74CBTLV3857DWR	296-9147-1-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-SOIC	.88	.66	.50
SN74CBTLV3857DWR	296-9147-2-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-SOIC	586.00/2,000		
SN74CBTLV3857PWR	296-9148-1-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-TSSOP	.88	.66	.50
SN74CBTLV3857PWR	296-9148-2-ND	Low Voltage 10-Bit FET Bus Switch with Internal Pulldown Resistor	24-TSSOP	586.00/2,000		
SN74CBTLV3861DBQR	296-9149-1-ND	Low Voltage 10-Bit FET Bus Switch	24-SSOP	.88	.66	.50
SN74CBTLV3861DBQR	296-9149-2-ND	Low Voltage 10-Bit FET Bus Switch	24-SSOP	715.00/2,500		
SN74CBTLV3861DGVR	296-9152-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	.92	.69	.52
SN74CBTLV3861DGVR	296-9152-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TVSOP	612.00/2,000		
SN74CBTLV3861DWR	296-9151-1-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	.88	.66	.50
SN74CBTLV3861DWR	296-9151-2-ND	Low Voltage 10-Bit FET Bus Switch	24-SOIC	586.00/2,000		
SN74CBTLV3861NSR	296-13182-1-ND	Low Voltage 10-Bit FET Bus Switch	24-SOP	.88	.66	.50
SN74CBTLV3861NSR	296-13182-2-ND	Low Voltage 10-Bit FET Bus Switch	24-SOP	586.00/2,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74CBTLV3861PWR	296-9153-1-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	.88	.66	.50
SN74CBTLV3861PWR	296-9153-2-ND	Low Voltage 10-Bit FET Bus Switch	24-TSSOP	586.00/2,000		
SN74CBTLV16210DLR	296-6496-1-ND	Low Voltage 20-Bit FET Bus Switch	48-SSOP	2.25	1.80	1.40
SN74CBTLV16210DLR	296-6496-2-ND	Low Voltage 20-Bit FET Bus Switch	48-SSOP	1275.00/1,000		
SN74CBTLV16210GR	296-6497-1-ND	Low Voltage 20-Bit FET Bus Switch	48-TSSOP	2.00	1.60	1.20
SN74CBTLV16210GR	296-6497-2-ND	Low Voltage 20-Bit FET Bus Switch	48-TSSOP	2080.00/2,000		
SN74CBTLV16210VR	296-6498-1-ND	Low Voltage 20-Bit FET Bus Switch	48-TVSOP	2.00	1.60	1.20
SN74CBTLV16210VR	296-6498-2-ND	Low Voltage 20-Bit FET Bus Switch	48-TVSOP	2080.00/2,000		
SN74CBTLV16211DLR	296-6499-1-ND	Low Voltage 24-Bit FET Bus Switch	48-SSOP	2.00	1.60	1.20
SN74CBTLV16211DLR	296-6499-2-ND	Low Voltage 24-Bit FET Bus Switch	48-SSOP	1040.00/1,000		
SN74CBTLV16211GR	296-6500-1-ND	Low Voltage 24-Bit FET Bus Switch	56-TSSOP	2.00	1.60	1.20
SN74CBTLV16211GR	296-6500-2-ND	Low Voltage 24-Bit FET Bus Switch	56-TSSOP	2080.00/2,000		
SN74CBTLV16211VR	296-9100-1-ND	Low Voltage 24-Bit FET Bus Switch	56-TVSOP	2.00	1.60	1.20
SN74CBTLV16211VR	296-9100-2-ND	Low Voltage 24-Bit FET Bus Switch	56-TVSOP	2080.00/2,000		
SN74CBTLV16212DLR	296-9101-1-ND	LV 24-Bit FET Bus-Exchange Switch	56-SSOP	2.00	1.60	1.20
SN74CBTLV16212DLR	296-9101-2-ND	LV 24-Bit FET Bus-Exchange Switch	56-SSOP	1040.00/1,000		
SN74CBTLV16212GR	296-9102-1-ND	LV 24-Bit FET Bus-Exchange Switch	56-TSSOP	2.00	1.60	1.20
SN74CBTLV16212GR	296-9102-2-ND	LV 24-Bit FET Bus-Exchange Switch	56-TSSOP	2080.00/2,000		
SN74CBTLV16212VR	296-9103-1-ND	LV 24-Bit FET Bus-Exchange Switch	56-TVSOP	2.00	1.60	1.20
SN74CBTLV16212VR	296-9103-2-ND	LV 24-Bit FET Bus-Exchange Switch	56-TVSOP	2080.00/2,000		
SN74CBTLV16292DLR	296-9104-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-SSOP	2.00	1.60	1.20
SN74CBTLV16292DLR	296-9104-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-SSOP	1040.00/1,000		
SN74CBTLV16292GR	296-9105-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	2.00	1.60	1.20
SN74CBTLV16292GR	296-9105-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TSSOP	2080.00/2,000		
SN74CBTLV16292VR	296-12882-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	2.00	1.60	1.20
SN74CBTLV16292VR	296-12882-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux	56-TVSOP	2080.00/2,000		
SN74CBTLV16800DLR	296-9106-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-SSOP	2.00	1.60	1.20
SN74CBTLV16800DLR	296-9106-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-SSOP	1040.00/1,000		
SN74CBTLV16800GR	296-9107-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TSSOP	2.00	1.60	1.20
SN74CBTLV16800GR	296-9107-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TSSOP	2080.00/2,000		
SN74CBTLV16800VR	296-9108-1-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TVSOP	2.00	1.60	1.20
SN74CBTLV16800VR	296-9108-2-ND	LV 20-Bit, 1-of-2 FET Mux/Demux	48-TVSOP	2080.00/2,000		
SN74CBTLVR16292GR	296-9154-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	3.15	2.52	1.96
SN74CBTLVR16292GR	296-9154-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TSSOP	3570.00/2,000		
SN74CBTLVR16292LR	296-9155-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	3.15	2.52	1.96
SN74CBTLVR16292LR	296-9155-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-SSOP	1785.00/1,000		
SN74CBTLVR16292VR	296-9156-1-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	3.15	2.52	1.96
SN74CBTLVR16292VR	296-9156-2-ND	LV 12-Bit, 1-of-2 FET Mux/Demux with Internal Pulldown Resistor	56-TVSOP	3570.00/2,000		
SN74CBTR16861DGGR	296-12336-1-ND	20-Bit FET Bus Switch	48-TSSOP	2.72	2.18	1.70
SN74CBTR16861DGGR	296-12336-2-ND	20-Bit FET Bus Switch	48-TSSOP	3086.00/2,000		
SN74CBTR16861DGVR	296-13183-1-ND	20-Bit FET Bus Switch	48-TVSOP	2.72	2.18	1.70
SN74CBTR16861DGVR	296-13183-2-ND	20-Bit FET Bus Switch	48-TVSOP	3086.00/2,000		
SN74CBTR16861DLR	296-12337-1-ND	20-Bit FET Bus Switch	48-SSOP	2.72	2.18	1.70
SN74CBTR16861DLR	296-12337-2-ND	20-Bit FET Bus Switch	48-SSOP	1543.00/1,000		
SN74CBTS3306DR	296-9157-1-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-SOIC	.92	.69	.52
SN74CBTS3306DR	296-9157-2-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-SOIC	747.50/2,500		
SN74CBTS3306PWR	296-9158-1-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-TSSOP	.92	.69	.52
SN74CBTS3306PWR	296-9158-2-ND	Dual FET Bus Switch with Schottky Diode Clamping	8-TSSOP	612.00/2,000		
SN74CBTS3384DBQR	296-9159-1-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-SSOP	.92	.69	.52
SN74CBTS3384DBQR	296-9159-2-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-SSOP	747.50/2,500		
SN74CBTS3384DBR	296-9160-1-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-SSOP	.92	.69	.52
SN74CBTS3384DBR	296-9160-2-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-SSOP	612.00/2,000		
SN74CBTS3384DW	296-9161-5-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-SOIC	.92	.69	.52
SN74CBTS3384PWR	296-9162-1-ND	10-Bit FET Bus Switch with Schottky Diode Clamping	24-TSSOP	.92	.69	.52
SN74CBTS3384PWR	296-9162-2-ND	10-Bit, FET Bus Switch with Schottky Diode Clamping	24-TSSOP	612.00/2,000		
SN74CBTS6800DBQR	296-9163-1-ND	10-Bit, FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-SSOP	1.63	1.30	.98
SN74CBTS6800DBQR	296-9163-2-ND	10-Bit FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-SSOP	2080.00/2,500		
SN74CBTS6800DGVR	296-9164-1-ND	10-Bit FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-TVSOP	1.63	1.30	.98
SN74CBTS6800DGVR	296-9164-2-ND	10-Bit FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-TVSOP	1690.00/2,000		
SN74CBTS6800DWR	296-9165-1-ND	10-Bit FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-SOIC	1.63	1.30	.98
SN74CBTS6800DWR	296-9165-2-ND	10-Bit FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-SOIC	1690.00/2,000		
SN74CBTS6800PWR	296-9166-1-ND	10-Bit FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-TSSOP	1.63	1.30	.98
SN74CBTS6800PWR	296-9166-2-ND	10-Bit FET Bus Switch w/Precharged Out/Schottky Clamping Diode	24-TSSOP	1690.00/2,000		
SN74CBTS16211DGGR	296-1174-1-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3.38	2.70	2.10
SN74CBTS16211DGGR	296-1174-2-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3826.00/2,000		
SN74CBTS16211DL	296-1547-5-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-SSOP	3.38	2.70	2.10
SN74CBTS16212DGGR	296-1175-1-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3.38	2.70	2.10
SN74CBTS16212DGGR	296-1175-2-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-TSSOP	3826.00/2,000		
SN74CBTS16212DL	296-1548-5-ND	24-Bit FET Bus Switch with Schottky Diode Clamp	56-SSOP	3.38	2.70	2.10

74F Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74F00DR	296-1176-1-ND	Quad 2-Input NAND Gate	14-SOIC	.45	.36	.27
SN74F00DR	296-1176-2-ND	Quad 2-Input NAND Gate	14-SOIC	305.00/2,500		
SN74F02DR	296-14801-1-ND	Quad 2-Input NOR Gate	14-SOIC	.45	.36	.27
SN74F02DR	296-14801-2-ND	Quad 2-Input NOR Gate	14-SOIC	305.00/2,500		
SN74F04D	296-1177-5-ND	Hex Inverter	14-SOIC	.45	.36	.27
SN74F04DR	296-1177-1-ND	Hex Inverter	14-SOIC	.45	.36	.27
SN74F04DR	296-1177-2-ND	Hex Inverter	14-SOIC	305.00/2,500		
SN74F08D	296-1178-5-ND	Quad 2-Input AND Gate	14-SOIC	.45	.36	.27
SN74F08DR	296-1178-1-ND	Quad 2-Input AND Gate	14-SOIC	.45	.36	.27
SN74F08DR	296-1178-2-ND	Quad 2-Input AND Gate	14-SOIC	305.00/2,500		
SN74F10DR	296-14802-1-ND	Triple 3-Input NAND Gate	14-SOIC	.45	.36	.27
SN74F10DR	296-14802-2-ND	Triple 3-Input NAND Gate	14-SOIC	305.00/2,500		
SN74F11DR	296-14803-1-ND	Triple 3-Input AND Gate	14-SOIC	.45	.36	.27
SN74F11DR	296-14803-2-ND	Triple 3-Input AND Gate	14-SOIC	305.00/2,500		
SN74F27DR	296-3576-1-ND	Triple 3-Input NOR Gate	14-SOIC	.45	.36	.27
SN74F27DR	296-3576-2-ND	Triple 3-Input NOR Gate	14-SOIC	305.00/2,500		
SN74F30DR	296-3581-1-ND	8-Input NAND Gate	14-SOIC	.45	.36	.45
SN74F30DR	296-3581-2-ND	8-Input NAND Gate	14-SOIC	305.00/2,500		
SN74F32DR	296-1182-1-ND	Quad 2-Input OR Gate	14-SOIC	.45	.36	.27
SN74F32DR	296-1182-2-ND	Quad 2-Input OR Gate	14-SOIC	305.00/2,500		
SN74F38DR	296-14312-1-ND	Quad 2-Input NAND Buffer	14-SOIC	.45	.36	.27
SN74F38DR	296-14312-2-ND	Quad 2-Input NAND Buffer	14-SOIC	305.00/2,500		
SN74F74D	296-1183-5-ND	Dual D-Type Flip-Flop	14-SOIC	.45	.36	.27
SN74F74DR	296-1183-1-ND	Dual D-Type Flip-Flop	14-SOIC	.45	.36	.27
SN74F74DR	296-1183-2-ND	Dual D-Type Flip-Flop	14-SOIC	305.00/2,500		
SN74F74N	296-1558-5-ND	Dual D-Type Flip-Flop	14-Dip	.48	.38	.29
SN74F86DR	296-14825-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.55	.44	.33
SN74F86DR	296-14825-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	372.50/2,500		
SN74F86N	296-3602-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.55	.44	.33
SN74F86NSR	296-13188-1-ND	Quad 2-Input Exclusive OR Gate	14-SOP	.55	.44	.33
SN74F86NSR	296-13188-2-ND	Quad 2-Input Exclusive OR Gate	14-SOP	308.00/2,000		
SN74F125D	296-1179-5-ND	Tri-State Quad Bus Buffer	14-SOIC	.55	.44	.33
SN74F125DR	296-1179-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.55	.44	.33
SN74F125DR	296-1179-2-ND	Tri-State Quad Bus Buffer	14-SOIC	372.50/2,500		
SN74F126DR	296-14804-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74F126DR	296-14804-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	372.50/2,500		
SN74F138D	296-3551-5-ND	3-8 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74F138DR	296-14805-1-ND	3-8 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74F138DR	296-14805-2-ND	3-8 Line Decoder/Demux	16-SOIC	372.50/2,500		
SN74F138N	296-3552-5-ND	3-8 Line Decoder/Demux	16-Dip	.55	.44	.33
SN74F151BDR	296-14806-1-ND	1-8 Data Selector/Multiplexer	16-SOIC	.56	.42	.32
SN74F151BDR	296-14806-2-ND	1-8 Data Selector/Multiplexer	16-SOIC	455.00/2,500		
SN74F153DR	296-14807-1-ND	Dual 1-4 Data Selector/Mux	16-SOIC	.55	.44	.33
SN74F153DR	296-14807-2-ND	Dual 1-4 Data Selector/Mux	16-SOIC	372.50/2,500		
SN74F153NSR	296-13184-1-ND	Dual 1-4 Data Selector/Mux	16-SOP	.55	.44	.33
SN74F153NSR	296-13184-2-ND	Dual 1-4 Data Selector/Mux	16-SOP	308.00/2,000		
SN74F157ADR	296-14808-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.55	.44	.33
SN74F157ADR	296-14808-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC	372.50/2,500		
SN74F157AN	296-1552-5-ND	Quad 2-1 Data Selector/Mux	16-Dip	.55	.44	.33
SN74F161ADR	296-14809-1-ND	Sync. 4-Bit Binary Counter	16-SOIC	.56	.42	.32
SN74F161ADR	296-14809-2-ND	Sync. 4-Bit Binary Counter	16-SOIC	455.00/2,500		
SN74F161ANSR	296-13185-1-ND	Sync. 4-Bit Binary Counter	16-SOP	.56	.42	.32
SN74F161ANSR	296-13185-2-ND	Sync. 4-Bit Binary Counter	16-SOP	372.00/2,000		
SN74F163AN	296-14810-5-ND	Sync. 4-Bit Binary Counter	16-Dip	.56	.42	.32
SN74F174ADR	296-14811-1-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.52	.39	.30
SN74F174ADR	296-14811-2-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	422.50/2,500		
SN74F175DR	296-14812-1-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.52	.39	.30
SN74F175DR	296-14812-2-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	422.50/2,500		
SN74F240DWR	296-14813-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.72	.54	.41
SN74F240DWR	296-14813-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	478.00/2,000		
SN74F244DBR	296-3570-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.64	.48	.36
SN74F244DBR	296-3570-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	426.00/2,000		
SN74F244DWR	296-1180-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.64	.48	.36
SN74F244DWR	296-1180-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	426.00/2,000		
SN74F244N	296-1553-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.68	.51	.39
SN74F245DBR	296-3571-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.64	.48	.36
SN74F245DBR	296-3571-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	426.00/2,000		
SN74F245DW	296-1181-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.64	.48	.36
SN74F245DWR	296-1181-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.64	.48	.36
SN74F245DWR	296-1181-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	426.00/2,000		
SN74F245N	296-3572-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.72	.54	.41
SN74F251BDR	296-14814-1-ND	Tri-State 1-8 Data Selector/Mux	16-SOIC	.62	.47	.35
SN74F251BDR	296-14814-2-ND	Tri-State 1-8 Data Selector/Mux	16-SOIC	505.00/2,500		
SN74F257D	296-1555-5-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.62	.47	.35
SN74F257DR	296-1555-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.62	.47	.35
SN74F257DR	296-1555-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	505.00/2,500		
SN74F260DR	296-14815-1-ND	Dual 5-Input NOR Gate	14-SOIC	.62	.47	.35
SN74F260DR	296-14815-2-ND	Dual 5-Input NOR Gate	14-SOIC	505.00/2,500		
SN74F280BDR	296-14816-1-ND	9-Bit Parity Generator/Checker	14-SOIC	.62	.47	.35
SN74F280BDR	296-14816-2-ND	9-Bit Parity Generator/Checker	14-SOIC	505.00/2,500		
SN74F373DWR	296-14817-1-ND	Tri-State, Octal Transparent D-Type Latch	20-SOIC	.64	.48	.36
SN74F373DWR	296-14817-2-ND	Tri-State, Octal Transparent D-Type Latch	20-SOIC	426.00/2,000		
SN74F374DWR	296-14818-1-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	.64	.48	.36
SN74F374DWR	296-14818-2-ND	Tri-State, Octal Edge-Triggered D-TypeFlip-Flop	20-SOIC	426.00/2,000		
SN74F374N	296-3588-5-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-Dip	.68	.51	.39
SN74F374NSR	296-13186-1-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-SOP	.64	.48	.36
SN74F374NSR	296-13186-2-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-SOP	426.00/2,000		
SN74F521DWR	296-14819-1-ND	8-Bit Identity Comparator	20-SOIC	.72	.54	.41
SN74F521DWR	296-14819-2-ND	8-Bit Identity Comparator	20-SOIC	478.00/2,000		
SN74F541DWR	296-14820-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74F541DWR	296-14820-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	532.00/2,000		
SN74F541NSR	296-13187-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.80	.60	.45
SN74F541NSR	296-13187-2-ND	Tri-State Octal Buffer/Driver	20-SOP	532.00/2,000		
SN74F543DWR	296-14821-1-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.05	.88	.70
SN74F543DWR	296-14821-2-ND	Tri-State Octal Registered Transceiver	24-SOIC	932.00/2,000		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74F573DWR	296-14822-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.64	.48	.36
SN74F573DWR	296-14822-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	426.00/2,000		
SN74F574DWR	296-14823-1-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	.64	.48	.36
SN74F574DWR	296-14823-2-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-SOIC	426.00/2,000		
SN74F574N	296-14824-5-ND	Tri-State, Octal Edge-Triggered D-Type Flip-Flop	20-Dip	.72	.54	.41
SN74F1016DWR	296-3544-1-ND	16-Bit Schottky Barrier Diode RC Bus Termination Array	20-SOIC	3.60	2.88	2.24
SN74F1016DWR	296-3544-2-ND	16-Bit Schottky Barrier Diode RC Bus Termination Array	20-SOIC	4080.00/2,000		

FCT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74FCT162244ATPVCT	296-14458-1-ND	16-Bit Buffer/Line Driver	48-SSOP	1.20	1.00	.80
74FCT162244ATPVCT	296-14458-2-ND	16-Bit Buffer/Line Driver	48-SSOP	532.00/1,000		
74FCT162244CTPACT	296-14296-1-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.20	1.00	.80
74FCT162244CTPACT	296-14296-2-ND	16-Bit Buffer/Line Driver	48-TSSOP	1064.00/2,000		
74FCT162373ATPACT	296-14459-1-ND	16-Bit D-Type Latch	48-TSSOP	1.20	1.00	.80
74FCT162373ATPACT	296-14459-2-ND	16-Bit D-Type Latch	48-TSSOP	1064.00/2,000		
74FCT162501ATPVCT	296-14460-1-ND	18-Bit Registered Transceiver	56-SSOP	1.20	1.00	.80
74FCT162501ATPVCT	296-14460-2-ND	18-Bit Registered Transceiver	56-SSOP	532.00/1,000		
74FCT162501CTPVCT	296-12620-5-ND	18-Bit Registered Transceiver	56-SSOP	1.20	1.00	.80
74FCT162823CTPVCT	296-17320-1-ND	18-Bit Bus Interface Register	56-SSOP	1.20	1.00	.80
74FCT162823CTPVCT	296-17320-2-ND	18-Bit Bus Interface Register	56-SSOP	532.00/1,000		
CD74FCT244M	296-9413-5-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.78	.65	.52
CD74FCT245E	296-9414-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.99	.83	.66
CD74FCT245M	296-9415-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.96	.72	.54
CD74FCT374M	296-9416-5-ND	Tri-State D-Type Flip-Flop	20-SOIC	.78	.65	.52
CD74FCT623M	296-9419-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	4.70	3.77	2.93
CD74FCT843AM	296-9420-5-ND	Tri-State D-Type Latch	20-SOIC	4.95	3.96	3.08
CY29FCT52CTQCT	296-18408-1-ND	8-Bit Registered Transceiver	24-SSOP	3.15	2.52	1.96
CY29FCT52CTQCT	296-18408-2-ND	8-Bit Registered Transceiver	24-SSOP	4410.00/2,500		
CY29FCT520ATSOCT	296-14562-1-ND	Tri-State Multilevel Pipeline Register	24-SOIC	3.15	2.52	1.96
CY29FCT520ATSOCT	296-14562-2-ND	Tri-State Multilevel Pipeline Register	24-SOIC	5738.00/2,000		
CY74FCT138ATQCT	296-14563-1-ND	1-of-8 Decoder	16-SSOP	.99	.83	.66
CY74FCT138ATQCT	296-14563-2-ND	1-of-8 Decoder	16-SSOP	1072.50/2,500		
CY74FCT157CTQCT	296-12272-5-ND	Tri-State Quad 2-Input Multiplexer	16-SSOP	.99	.83	.66
CY74FCT157CTSOC	296-9438-5-ND	Quad 2-Input Multiplexer	16-SOIC	.99	.83	.66
CY74FCT163CTQCT	296-14565-1-ND	4-Bit Binary Counter	16-SSOP	.92	.69	.52
CY74FCT163CTQCT	296-14565-2-ND	4-Bit Binary Counter	16-SSOP	1235.00/2,500		
CY74FCT240ATQCT	296-14569-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT240ATQCT	296-14569-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT240TQCT	296-14570-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT240TQCT	296-14570-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT244ATQCT	296-13854-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT244ATQCT	296-13854-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT244ATSOCT	296-14571-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	.72	.54	.41
CY74FCT244ATSOCT	296-14571-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	478.00/2,000		
CY74FCT244CTQCT	296-14006-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT244CTQCT	296-14006-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT244TQCT	296-14572-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT244TQCT	296-14572-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT244TSOCT	296-14573-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	.72	.54	.41
CY74FCT244TSOCT	296-14573-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	478.00/2,000		
CY74FCT245ATPC	296-14574-5-ND	Tri-State 8-Bit Transceiver	20-Dip	.72	.54	.41
CY74FCT245ATQCT	296-14575-1-ND	Tri-State 8-Bit Transceiver	20-SSOP	.72	.54	.41
CY74FCT245ATQCT	296-14575-2-ND	Tri-State 8-Bit Transceiver	20-SSOP	585.00/2,500		
CY74FCT245TQCT	296-9441-5-ND	Tri-State 8-Bit Transceiver	20-SSOP	.72	.54	.41
CY74FCT257ATQCT	296-13620-1-ND	Tri-State Quad 2-Input Multiplexer	16-QSOP	.72	.54	.41
CY74FCT257ATQCT	296-13620-2-ND	Tri-State Quad 2-Input Multiplexer	16-QSOP	585.00/2,500		
CY74FCT373ATQCT	296-14576-1-ND	Tri-State 8-Bit Latch	20-SSOP	.72	.54	.41
CY74FCT373ATQCT	296-14576-2-ND	Tri-State 8-Bit Latch	20-SSOP	585.00/2,500		
CY74FCT374ATQCT	296-14577-1-ND	Tri-State 8-Bit Register	20-SSOP	.72	.54	.41
CY74FCT374ATQCT	296-14577-2-ND	Tri-State 8-Bit Register	20-SSOP	585.00/2,500		
CY74FCT374TQCT	296-9442-1-ND	Tri-State 8-Bit Register	20-SSOP	.72	.54	.41
CY74FCT374TQCT	296-9442-2-ND	Tri-State 8-Bit Register	20-SSOP	585.00/2,500		
CY74FCT399CTSOCT	296-13007-1-ND	Quad 2-Input Register	16-SOIC	1.20	.90	.68
CY74FCT399CTSOCT	296-13007-2-ND	Quad 2-Input Register	16-SOIC	798.00/2,000		
CY74FCT540CTQCT	296-13855-5-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT541ATPC	296-14578-5-ND	Tri-State 8-Bit Buffer/Line Driver	20-Dip	.72	.54	.41
CY74FCT541ATQCT	296-13699-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT541ATQCT	296-13699-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT541CTQCT	296-12629-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT541CTQCT	296-12629-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT541CTSOCT	296-12274-5-ND	Tri-State 8-Bit Buffer/Line Driver	20-SOIC	.72	.54	.41
CY74FCT541TQCT	296-18409-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT541TQCT	296-18409-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT543ATQCT	296-14579-1-ND	Tri-State 8-Bit Latched Registered Transceiver	24-SSOP	.72	.54	.41
CY74FCT543ATQCT	296-14579-2-ND	Tri-State 8-Bit Latched Registered Transceiver	24-SSOP	585.00/2,500		
CY74FCT574ATQCT	296-14580-1-ND	Tri-State 8-Bit Register	20-SSOP	.72	.54	.41
CY74FCT574ATQCT	296-14580-2-ND	Tri-State 8-Bit Register	20-SSOP	585.00/2,500		
CY74FCT574TQCT	296-14581-1-ND	Tri-State 8-Bit Register	20-SSOP	.72	.54	.41
CY74FCT574TQCT	296-14581-2-ND	Tri-State 8-Bit Register	20-SSOP	585.00/2,500		
CY74FCT646ATQCT	296-14582-1-ND	Tri-State 8-Bit Register Transceiver.	24-SSOP	1.20	.90	.68
CY74FCT646ATQCT	296-14582-2-ND	Tri-State 8-Bit Register Transceiver.	24-SSOP	975.00/2,500		
CY74FCT821ATQCT	296-14583-1-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SSOP	.72	.54	.41
CY74FCT821ATQCT	296-14583-2-ND	Tri-State 10-Bit Bus Interface Flip-Flop	24-SSOP	585.00/2,500		
CY74FCT821BTPC	296-14584-5-ND	Tri-State 10-Bit Bus Interface Register	24-Dip	1.05	.88	.70
CY74FCT821CTQCT	296-14585-1-ND	Tri-State 10-Bit Bus Interface Register	24-SSOP	.72	.54	.41
CY74FCT821CTQCT	296-14585-2-ND	Tri-State 10-Bit Bus Interface Register	24-SSOP	585.00/2,500		
CY74FCT827ATSOC	296-9443-5-ND	Tri-State 10-Bit Buffer	24-SOP	.72	.54	.41
CY74FCT827CTQCT	296-15180-1-ND	Tri-State 10-Bit Buffer	24-SSOP	.72	.54	.41
CY74FCT827CTQCT	296-15180-2-ND	Tri-State 10-Bit Buffer	24-SSOP	585.00/2,500		
CY74FCT827CTSOCT	296-12845-5-ND	Tri-State 10-Bit Buffer	24-SOIC	.72	.54	.41
CY74FCT2244ATQCT	296-14566-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT2244ATQCT	296-14566-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT2244CTQCT	296-14567-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT2244CTQCT	296-14567-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT2245ATQCT	296-12974-1-ND	Tri-State Octal Bus Transceiver	20-QSOP	.72	.54	.41
CY74FCT2245ATQCT	296-12974-2-ND	Tri-State Octal Bus Transceiver	20-QSOP	585.00/2,500		
CY74FCT2245TSOCT	296-14568-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.72	.54	.41
CY74FCT2245TSOCT	296-14568-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	478.00/2,000		
CY74FCT2245TSOC	296-9439-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.72	.54	.41
CY74FCT2257ATQCT	296-14005-1-ND	Tri-State Quad 2-Input Mux	16-QSOP	1.68	1.34	1.01
CY74FCT2257ATQCT	296-14005-2-ND	Tri-State Quad 2-Input Mux	16-QSOP	2145.00/2,500		
CY74FCT2373CTSOC	296-12975-5-ND	Tri-State Octal Transparent Latch	20-SOIC	.72	.54	.41
CY74FCT2541ATQCT	296-14007-1-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	.72	.54	.41
CY74FCT2541ATQCT	296-14007-2-ND	Tri-State 8-Bit Buffer/Line Driver	20-SSOP	585.00/2,500		
CY74FCT2574ATQCT	296-13635-5-ND	Tri-State High Speed, Low Power, Octal D-Type Flip-Flop	20-QSOP	.72	.54	.41
CY74FCT2652ATQCT	296-13698-1-ND	Tri-State 8-Bit Registered Transceiver	24-QSOP	2.00	1.60	1.20
CY74FCT2652ATQCT	296-13698-2-ND	Tri-State 8-Bit Registered Transceiver	24-QSOP	3135.00/2,500		
CY74FCT2827ATQCT	296-14166-1-ND	Tri-State 10-Bit Buffer	24-SSOP	2.00	1.60	1.20
CY74FCT2827ATQCT	296-14166-2-ND	Tri-State 10-Bit Buffer	24-SSOP	2560.00/2,500		
CY74FCT16244ATPACT	296-14306-1-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.35	1.13	.90
CY74FCT16244ATPACT	296-14306-2-ND	16-Bit Buffer/Line Driver	48-TSSOP	1198.00/2,000		
CY74FCT16245ATPACT	296-16761-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.35	1.13	.90
CY74FCT16245ATPACT	296-16761-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1198.00/2,000		
CY74FCT16373CTPACT	296-13619-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1.35	1.13	.90
CY74FCT16373CTPACT	296-13619-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1197.00/2,000		
CY74FCT16373CTPVC	296-12687-5-ND	Tri-State 16-Bit, Transparent D-Type Latch Flip-Flop	48-SSOP	1.35	1.13	.90
CY74FCT16374CTPACT	296-12688-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.35	1.13	.90
CY74FCT16374CTPACT	296-12688-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1198.00/2,000		
CY74FCT16374TPVC	296-12273-5-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.35	1.13	.90
CY74FCT16543ATPACT	296-12973-1-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1.38	1.10	.83
CY74FCT16543ATPACT	296-12973-2-ND	Tri-St. 16-Bit Registered Transceiver	56-TSSOP	1430.00/2,000		
CY74FCT16827CTPACT	296-15309-1-ND	20-Bit Buffer/Line Driver	56-TSSOP	1.38	1.10	.83
CY74FCT16827CTPACT	296-15309-2-ND	20-Bit Buffer/Line Driver	56-TSSOP	2366.00/2,000		
CY74FCT162244TPVCT	296-14564-1-ND	16-Bit Buffer/Line Driver	48-SSOP	1.35	1.13	.90
CY74FCT162244TPVCT	296-14564-2-ND	16-Bit Buffer/Line Driver	48-SSOP	599.00/1,000		
CY74FCT162245CTPVC	296-12551-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.35	1.13	.90

Future Bus Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74FB2031RC	296-1560-5-ND	9-Bit Address/Data Transceiver	52-QFP	8.91	8.03	7.12
SN74FB2033ARC	296-1561-5-ND	8-Bit Transceiver	52-QFP	9.16	8.25	7.32
SN74FB2033KRC	296-3605-ND	8-Bit TTL/BTL Registered Transceiver	52-QFP	10.33	9.30	8.25
SN74FB2040RC	296-3606-ND	8-Bit TTL/BTL Transceiver	52-QFP	9.58	8.63	7.65
SN74FB2041ARC	296-3607-ND	7-Bit TTL/BTL Transceiver	52-QFP	9.58	8.63	7.65

GTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTL2006PWR	296-17670-1-ND	13-Bit GTL-LVTTL Translator	28-TSSOP	1.88	1.50	1.13
SN74GTL2006PWR	296-17670-2-ND	13-Bit GTL-LVTTL Translator	28-TSSOP	1950.00/2,000		
SN74GTL2007PWR	296-17963-1-ND	12-Bit GTL-/GTL/GTL+ to LVTTL Translator	28-TSSOP	1.88	1.50	1.13
SN74GTL2007PWR	296-17963-2-ND	12-Bit GTL-/GTL/GTL+ to LVTTL Translator	28-TSSOP	1950.00/2,000		
SN74GTL1655DGGR	296-1184-1-ND	16-Bit Universal Bus Transceiver	64-TSSOP	10.16	9.15	8.12
SN74GTL1655DGGR	296-1184-2-ND	16-Bit Universal Bus Transceiver	64-TSSOP	15068.00/2,000		
SN74GTL16612DGGR	296-9808-1-ND	18-Bit Universal Bus Transceiver	56-TSSOP	6.60	5.28	4.46
SN74GTL16612DGGR	296-9808-2-ND	18-Bit Universal Bus Transceiver	56-TSSOP	8250.00/2,000		
SN74GTL16612DL	296-9809-5-ND	18-Bit Universal Bus Transceiver	56-SSOP	6.60	5.28	4.46
SN74GTL16616DGGR	296-1185-1-ND	17-Bit Universal Bus Transceiver	56-TSSOP	9.00	7.20	6.08
SN74GTL16616DGGR	296-1185-2-ND	17-Bit Universal Bus Transceiver	56-TSSOP	14080.00/2,000		
SN74GTL16616DLR	296-9810-1-ND	17-Bit Universal Bus Transceiver	56-SSOP	9.00	7.20	6.08
SN74GTL16616DLR	296-9810-2-ND	17-Bit Universal Bus Transceiver	56-SSOP	7040.00/1,000		
SN74GTL16622ADGGR	296-1186-1-ND	18-Bit Bus Transceiver	64-TSSOP	9.08	8.18	7.25
SN74GTL16622ADGGR	296-1186-2-ND	18-Bit Bus Transceiver	64-TSSOP	13462.00/2,000		
SN74GTL16923DGGR	296-9811-1-ND	18-Bit Universal Bus Transceiver	64-TSSOP	8.91	8.03	7.12
SN74GTL16923DGGR	296-9811-2-ND	18-Bit Universal Bus Transceiver	64-TSSOP	13214.00/2,000		

GTLP Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTLP817DGVR	296-13205-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TVSOP	3.94	3.15	2.45
SN74GTLP817DGVR	296-13205-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TVSOP	4462.00/2,000		
SN74GTLP817DWR	296-12338-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-SOIC	3.94	3.15	2.45
SN74GTLP817DWR	296-12338-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-SOIC	4462.00/2,000		
SN74GTLP817PWR	296-12339-1-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TSSOP	3.94	3.15	2.45
SN74GTLP817PWR	296-12339-2-ND	GTLP-to-LVTTL 1-to-6 Fanout Driver	24-TSSOP	4462.00/2,000		
SN74GTLP1394DGVR	296-9812-1-ND	2-Bit Bus Transceiver	16-TVSOP	2.59	2.07	1.61
SN74GTLP1394DGVR	296-9812-2-ND	2-Bit Bus Transceiver	16-TVSOP	2932.00/2,000		
SN74GTLP1394DR	296-9813-1-ND	2-Bit Bus Transceiver	16-SOIC	2.59	2.07	1.61
SN74GTLP1394DR	296-9813-2-ND	2-Bit Bus Transceiver	16-SOIC	3622.50/2,500		
SN74GTLP1394PWR	296-9814-1-ND	2-Bit Bus Transceiver	16-TSSOP	2.59	2.07	1.61
SN74GTLP1394PWR	296-9814-2-ND	2-Bit Bus Transceiver	16-TSSOP	2932.00/2,000		
SN74GTLP1395DGVR	296-12465-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-TVSOP	2.81	2.25	1.75
SN74GTLP1395DGVR	296-12465-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-TVSOP	3188.00/2,000		
SN74GTLP1395DWR	296-12466-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-SOIC	2.81	2.25	1.75
SN74GTLP1395DWR	296-12466-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-SOIC	3188.00/2,000		
SN74GTLP1395GQNR	296-13189-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-VFBGA	3.15	2.52	1.96
SN74GTLP1395GQNR	296-13189-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-VFBGA	1785.00/1,000		
SN74GRLP1395PWR	296-12467-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-TSSOP	2.81	2.25	1.75
SN74GRLP1395PWR	296-12467-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transcvr. with Split LVTTL Port	20-TSSOP	3188.00/2,000		
SN74GTLP2033DGGR	296-12468-1-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TSSOP	5.50	4.40	3.72
SN74GTLP2033DGGR	296-12468-2-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TSSOP	6876.00/2,000		
SN74GTLP2033DGVR	296-12469-1-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TVSOP	5.50	4.40	3.72
SN74GTLP2033DGVR	296-12469-2-ND	8-Bit LVTTL-to-GTLP Registered Transceiver	48-TVSOP	6876.00/2,000		
SN74GTLP2033GQLR	296-13190-1-ND	8-Bit LVTTL-to-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port/Inverter	56-VFBGA	5.80	4.64	3.92
SN74GTLP2033GQLR	296-13190-2-ND	8-Bit LVTTL-to-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port/Inverter	56-VFBGA	3625.00/1,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTLP2034DGGR	296-13191-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transcvr with Split LVTTL Port	48-TSSOP	5.50	4.40	3.72
SN74GTLP2034DGGR	296-13191-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transcvr with Split LVTTL Port	48-TSSOP	6876.00/2,000		
SN74GTLP2034DGVR	296-13192-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transcvr with Split LVTTL Port	48-TVSOP	5.50	4.40	3.72
SN74GTLP2034DGVR	296-13192-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transcvr with Split LVTTL Port	48-TVSOP	6876.00/2,000		
SN74GTLP2034GQLR	296-13193-1-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transceiver with Split LVTTL Port	56-VFBGA	5.80	4.64	3.92
SN74GTLP2034GQLR	296-13193-2-ND	8-Bit LVTTL-to-GTLP Adj-Edge-Rate Register Transceiver with Split LVTTL Port	56-VFBGA	3625.00/1,000		
SN74GTLP21395DGVR	296-13194-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TVSOP	2.81	2.25	1.75
SN74GTLP21395DGVR	296-13194-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TVSOP	3188.00/2,000		
SN74GTLP21395DWR	296-13195-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-SOIC	2.81	2.25	1.75
SN74GTLP21395DWR	296-13195-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-SOIC	3188.00/2,000		
SN74GTLP21395GQNR	296-13197-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-VFBGA	3.15	2.52	1.96
SN74GTLP21395GQNR	296-13197-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-VFBGA	1785.00/1,000		
SN74GTLP21395PWR	296-13198-1-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TSSOP	2.81	2.25	1.75
SN74GTLP21395PWR	296-13198-2-ND	Dual 1-Bit LVTTL-to-GTLP Bus Transceiver with Split LVTTL Port	20-TSSOP	3188.00/2,000		
SN74GTLP22033DGGR	296-13199-1-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port and Inverter	48-TSSOP	5.50	4.40	3.72
SN74GTLP22033DGGR	296-13199-2-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port and Inverter	48-TSSOP	6876.00/2,000		
SN74GTLP22033DGVR	296-13200-1-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	48-TVSOP	5.50	4.40	3.72
SN74GTLP22033DGVR	296-13200-2-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	48-TVSOP	6876.00/2,000		
SN74GTLP22033GQLR	296-13201-1-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	56-VFBGA	5.80	4.64	3.92
SN74GTLP22033GQLR	296-13201-2-ND	8-Bit LVTTL-GTLP Adj.-Edge Rate Registered Transceiver with Split LVTTL Port	56-VFBGA	3625.00/1,000		
SN74GTLP22034DGGR	296-13202-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TSSOP	5.50	4.40	3.72
SN74GTLP22034DGGR	296-13202-2-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TSSOP	6876.00/2,000		
SN74GTLP22034DGVR	296-13203-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TVSOP	5.50	4.40	3.72
SN74GTLP22034DGVR	296-13203-2-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	48-TVSOP	6876.00/2,000		
SN74GTLP22034GQLR	296-13204-1-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	56-VFBGA	5.50	4.40	3.72
SN74GTLP22034GQLR	296-13204-2-ND	8-Bit LVTTL-GTLP Adj.-Edge-Rate Register Transcvr w/Split LVTTL Port	56-VFBGA	3438.00/1,000		

GTLPH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74GTLPH306DGVR	296-13212-1-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-TVSOP	4.05	3.24	2.52
SN74GTLPH306DGVR	296-13212-2-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-TVSOP	4590.00/2,000		
SN74GTLPH306DWR	296-12341-1-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-SOIC	4.05	3.24	2.52
SN74GTLPH306DWR	296-12341-2-ND	8-Bit LVTTL-GTLP Bus Transceiver	24-SOIC	4590.00/2,000		
SN74GTLPH1612DGGR	296-13206-1-ND	18-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	8.50	6.80	5.74
SN74GTLPH1612DGGR	296-13206-2-ND	18-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	10626.00/2,000		
SN74GTLPH1616DGGR	296-11932-1-ND	17-Bit Universal Bus Transceiver	64-TSSOP	8.50	6.80	5.74
SN74GTLPH1616DGGR	296-11932-2-ND	17-Bit Universal Bus Transceiver	64-TSSOP	10626.00/2,000		
SN74GTLPH1627DGGR	296-15555-1-ND	18-Bit LVTTL-GTLP Bus Transceiver	64-TSSOP	7.50	6.00	5.07
SN74GTLPH1627DGGR	296-15555-2-ND	18-Bit LVTTL-GTLP Bus Transceiver	64-TSSOP	9376.00/2,000		
SN74GTLPH1645DGGR	296-12470-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TSSOP	3.94	3.15	2.45
SN74GTLPH1645DGGR	296-12470-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TSSOP	4462.00/2,000		
SN74GTLPH1645DGVR	296-12471-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TVSOP	3.94	3.15	2.45
SN74GTLPH1645DGVR	296-12471-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-TVSOP	4462.00/2,000		
SN74GTLPH1645GQLR	296-12663-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-VFBGA	4.50	3.60	2.80
SN74GTLPH1645GQLR	296-12663-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	56-VFBGA	2550.00/1,000		
SN74GTLPH1655DGGR	296-12340-1-ND	16-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	8.50	6.80	5.74
SN74GTLPH1655DGGR	296-12340-2-ND	16-Bit LVTTL-GTLP Adj.-Edge-Rate Universal Bus Transceiver	64-TSSOP	10626.00/2,000		
SN74GTLPH3245GKFR	296-13213-1-ND	32-Bit LVTTL-GTLP Adj.-Edge-Rate Bus Transceiver	114-LFBGA	5.30	4.24	3.58
SN74GTLPH3245GKFR	296-13213-2-ND	32-Bit LVTTL-GTLP Adj.-Edge-Rate Bus Transceiver	114-LFBGA	3313.00/1,000		
SN74GTLPH16612DLR	296-9815-1-ND	18-Bit Universal Bus Transceiver	56-SSOP	6.60	5.28	4.46
SN74GTLPH16612DLR	296-9815-2-ND	18-Bit Universal Bus Transceiver	56-SSOP	4125.00/1,000		
SN74GTLPH16612GR	296-9816-1-ND	18-Bit Universal Bus Transceiver	56-TSSOP	6.10	4.88	4.12
SN74GTLPH16612GR	296-9816-2-ND	18-Bit Universal Bus Transceiver	56-TSSOP	7626.00/2,000		
SN74GTLPH16912GR	296-13207-1-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TSSOP	6.50	5.20	4.39
SN74GTLPH16912GR	296-13207-2-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TSSOP	8750.00/2,000		
SN74GTLPH16912VR	296-12256-1-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TVSOP	6.50	5.20	4.39
SN74GTLPH16912VR	296-12256-2-ND	18-Bit LVTTL-GTLP Universal Bus Transceiver	56-TVSOP	8750.00/2,000		
SN74GTLPH16916GR	296-13208-1-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TSSOP	6.50	5.20	4.39
SN74GTLPH16916GR	296-13208-2-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TSSOP	8750.00/2,000		
SN74GTLPH16916VR	296-13209-1-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TVSOP	6.50	5.20	4.39
SN74GTLPH16916VR	296-13209-2-ND	17-Bit LVTTL-GTLP Universal Bus Transcvr w/Buffered Clock Outputs	56-TVSOP	8750.00/2,000		
SN74GTLPH16927GR	296-15556-1-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TSSOP	7.00	5.60	4.73
SN74GTLPH16927GR	296-15556-2-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TSSOP	8750.00/2,000		
SN74GTLPH16927KR	296-15557-1-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-VFBGA	8.50	6.80	5.74
SN74GTLPH16927KR	296-15557-2-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-VFBGA	5313.00/1,000		
SN74GTLPH16927VR	296-15558-1-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TVSOP	8.50	6.80	5.74
SN74GTLPH16927VR	296-15558-2-ND	18-Bit LVTTL-GTLP Bus Transceiver with Source Sync. Clock Output	56-TVSOP	10626.00/2,000		
SN74GTLPH16945GR	296-13210-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TSSOP	4.05	3.24	2.52
SN74GTLPH16945GR	296-13210-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TSSOP	4590.00/2,000		
SN74GTLPH16945VR	296-13211-1-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TVSOP	4.05	3.24	2.52
SN74GTLPH16945VR	296-13211-2-ND	16-Bit LVTTL-GTLP Bus Transceiver	48-TVSOP	4590.00/2,000		
SN74GTLPH32912KR	296-15559-1-ND	36-Bit LVTTL-GTLP Bus Transceiver	114-LFBGA	8.33	7.50	6.65
SN74GTLPH32912KR	296-15559-2-ND	36-Bit LVTTL-GTLP Bus Transceiver	114-LFBGA	6175.00/1,000		
SN74GTLPH32916KR	296-15560-1-ND	34-Bit LVTTL-GTLP Bus Transceiver with Buffered Clock Output	114-LFBGA	8.33	7.50	6.65
SN74GTLPH32916KR	296-15560-2-ND	34-Bit LVTTL-GTLP Bus Transceiver with Buffered Clock Output	114-LFBGA	6175.00/1,000		
SN74GTLPH32945KR	296-12472-1-ND	32-Bit LVTTL-GTLP Bus Transceiver	96-LFBGA	5.06	4.05	3.15
SN74GTLPH32945KR	296-12472-2-ND	32-Bit LVTTL-GTLP Bus Transceiver	96-LFBGA	2869.00/1,000		

HC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HC00E	296-12769-5-ND	Quad 2-Input NAND Gate	14-Dip	.64	.48	.36
CD74HC00M	296-9167-5-ND	Quad 2-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HC00M96	296-14504-1-ND	Quad 2-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HC00M96	296-14504-2-ND	Quad 2-Input NAND Gate	14-SOIC	390.00/2,500		
CD74HC02E	296-12770-5-ND	High Speed, Quad 2-Input NOR Gate	14-Dip	.64	.48	.36
CD74HC03M96	296-12771-1-ND	High Speed, Quad 2-Input NAND Gate with Open Drain	14-SOIC	.48	.36	.27
CD74HC03M96	296-12771-2-ND	High Speed, Quad 2-Input NAND Gate with Open Drain	14-SOIC	390.00/2,500		
CD74HC04E	296-12772-5-ND	High Speed, CMOS Logic Hex Inverter	14-Dip	.64	.48	.36
CD74HC04M	296-17318-5-ND	High Speed, CMOS Logic Hex Inverter	14-SOIC	.48	.36	.27
CD74HC04M96	296-14505-1-ND	High Speed, CMOS Logic Hex Inverter	14-SOIC	.48	.36	.27
CD74HC04M96	296-14505-2-ND	High Speed, CMOS Logic Hex Inverter	14-SOIC	390.00/2,500		
CD74HC08E	296-12773-5-ND	High Speed, Quad 2-Input AND Gate	14-Dip	.64	.48	.36
CD74HC08M	296-9169-5-ND	High Speed, Quad 2-Input AND Gate	14-SOIC	.48	.36	.27
CD74HC08M96	296-14506-1-ND	High Speed, Quad 2-Input AND Gate	14-SOIC	.48	.36	.27
CD74HC08M96	296-14506-2-ND	High Speed, Quad 2-Input AND Gate	14-SOIC	390.00/2,500		
CD74HC10E	296-12774-5-ND	Triple 3-Input NAND Gate	14-Dip	.64	.48	.36
CD74HC10M	296-12775-5-ND	Triple 3-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HC10M96	296-14507-1-ND	Triple 3-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HC10M96	296-14507-2-ND	Triple 3-Input NAND Gate	14-SOIC	390.00/2,500		
CD74HC11M	296-9170-5-ND	Triple 3-Input AND Gate	14-SOIC	.48	.36	.27
CD74HC11M96	296-12779-1-ND	Triple 3-Input AND Gate	14-SOIC	.48	.36	.27
CD74HC11M96	296-12779-2-ND	Triple 3-Input AND Gate	14-SOIC	390.00/2,500		
CD74HC14E	296-12786-5-ND	Hex Schmitt Trigger Inverter	14-Dip	.64	.48	.36
CD74HC14M	296-9179-5-ND	Hex Schmitt Trigger Inverter	14-SOIC	.48	.36	.27
CD74HC14M96	296-9179-1-ND	Hex Schmitt Trigger Inverter	14-SOIC	.48	.36	.27
CD74HC14M96	296-9179-2-ND	Hex Schmitt Trigger Inverter	14-SOIC	390.00/2,500		
CD74HC21M	296-9186-5-ND	Dual 4-Input AND Gate	14-SOIC	.48	.36	.27
CD74HC27E	296-12802-5-ND	High Speed Triple 3-Input NOR Gate	14-Dip	.64	.48	.36
CD74HC30E	296-9196-5-ND	8-Input NAND Gate	14-Dip	.53	.42	.32
CD74HC30M	296-9197-5-ND	8-Input NAND Gate	14-SOIC	.46	.37	.26
CD74HC30M96	296-14521-1-ND	8-Input NAND Gate	14-SOIC	.46	.37	.26
CD74HC30M96	296-14521-2-ND	8-Input NAND Gate	14-SOIC	297.50/2,500		
CD74HC32E	296-12803-5-ND	HS CMOS Logic Quad 2-Input OR Gate	14-Dip	.64	.48	.36
CD74HC32M	296-12804-5-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	.48	.36	.27
CD74HC32M96	296-14522-1-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	.48	.36	.27
CD74HC32M96	296-14522-2-ND	HS CMOS Logic Quad 2-Input OR Gate	14-SOIC	390.00/2,500		
CD74HC73M96	296-14540-1-ND	Dual J-K Flip-Flop with Reset	14-SOIC	.60	.45	.34
CD74HC73M96	296-14540-2-ND	Dual J-K Flip-Flop with Reset	14-SOIC	487.50/2,500		
CD74HC74E	296-12819-5-ND	Dual D-Type Flip-Flop	14-Dip	.64	.48	.36
CD74HC74M	296-12820-5-ND	Dual D-Type Flip-Flop	14-SOIC	.48	.36	.27
CD74HC74M96	296-14541-1-ND	Dual D-Type Flip-Flop	14-SOIC	.48	.36	.27
CD74HC74M96	296-14541-2-ND	Dual D-Type Flip-Flop	14-SOIC	390.00/2,500		
CD74HC75E	296-9240-5-ND	Dual 2-Bit Bistable Transparent Latch	16-Dip	.88	.66	.50
CD74HC85E	296-12821-5-ND	4-Bit, High Speed, Magnitude Comparator	16-Dip	.81	.68	.54
CD74HC85M	296-9242-5-ND	4-Bit, HS, Magnitude Comparator	16-SOIC	.81	.68	.54
CD74HC85M96	296-9242-1-ND	4-Bit, HS, Magnitude Comparator	16-SOIC	.81	.68	.54
CD74HC85M96	296-9242-2-ND	4-Bit, HS, Magnitude Comparator	16-SOIC	877.50/2,500		
CD74HC86E	296-12822-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.72	.54	.41
CD74HC93M96	296-9243-1-ND	4-Bit Binary Ripple Counter	14-SOIC	.81	.68	.54
CD74HC93M96	296-9243-2-ND	4-Bit Binary Ripple Counter	14-SOIC	877.50/2,500		
CD74HC112E	296-12776-5-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-Dip	.72	.54	.41
CD74HC112M96	296-12777-1-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-SOIC	.64	.48	.36
CD74HC112M96	296-12777-2-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-SOIC	520.00/2,500		
CD74HC112PWR	296-12778-1-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-TSSOP	.64	.48	.36
CD74HC112PWR	296-12778-2-ND	Dual, Negative, J-K Flip-Flop with Set and Reset	16-TSSOP	426.00/2,000		
CD74HC123E	296-9171-5-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-Dip	.53	.40	.30
CD74HC123M	296-9172-5-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-SOIC	.48	.36	.27
CD74HC123M96	296-14508-1-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC	.48	.36	.27

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CD74HC123M96	296-14508-2-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC	390.00/2,500		
CD74HC123PWR	296-12780-1-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-TSSOP	.48	.36	.27
CD74HC123PWR	296-12780-2-ND	Dual Retriggerable Monostable Multivibrators with Reset	16-TSSOP	320.00/2,000		
CD74HC125E	296-12781-5-ND	Tri-State High Speed Quad Buffer	14-Dip	.72	.54	.41
CD74HC125M	296-9173-5-ND	Tri-State High Speed Quad Buffer	14-SOIC	.64	.48	.36
CD74HC125M96	296-14509-1-ND	Tri-State High Speed Quad Buffer	14-SOIC	.64	.48	.36
CD74HC125M96	296-14509-2-ND	Tri-State High Speed Quad Buffer	14-SOIC	520.00/2,500		
CD74HC126E	296-12782-5-ND	Tri-State High Speed Quad Buffer	14-Dip	.72	.54	.41
CD74HC126M	296-12783-5-ND	Tri-State High Speed Quad Buffer	14-SOIC	.64	.48	.36
CD74HC126M96	296-14510-1-ND	Tri-State High Speed Quad Buffer	14-SOIC	.64	.48	.36
CD74HC126M96	296-14510-2-ND	Tri-State High Speed Quad Buffer	14-SOIC	520.00/2,500		
CD74HC132E	296-12784-5-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-Dip	.72	.54	.41
CD74HC132M	296-9175-5-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-SOIC	.64	.48	.36
CD74HC132M96	296-9175-1-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-SOIC	.64	.48	.36
CD74HC132M96	296-9175-2-ND	Quad 2-Input Schmitt-Trig. NAND Gate	14-SOIC	520.00/2,500		
CD74HC137E	296-9176-5-ND	3-8 Line Decoder/Demultiplexer, with Address Latch	16-Dip	.53	.40	.30
CD74HC138E	296-12785-5-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-Dip	.72	.54	.41
CD74HC138M	296-9177-5-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	.64	.48	.36
CD74HC138M96	296-14511-1-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	.64	.48	.36
CD74HC138M96	296-14511-2-ND	3-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	520.00/2,500		
CD74HC139M96	296-14512-1-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.64	.48	.36
CD74HC139M96	296-14512-2-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	520.00/2,500		
SN74HC139QPWRQ1	296-18717-1-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	.52	.39	.30
SN74HC139QPWRQ1	296-18717-2-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	344.00/2,000		
CD74HC147E	296-14513-5-ND	10-4 Line Priority Encoder	16-Dip	.53	.40	.30
CD74HC151M96	296-12787-1-ND	HS CMOS Logic 8-Input Mux	16-SOIC	.64	.48	.36
CD74HC151M96	296-12787-2-ND	HS CMOS Logic 8-Input Mux	16-SOIC	520.00/2,500		
CD74HC154EN	296-9181-5-ND	4-16 Line Decoder/Demultiplexer	24-Dip	.90	.75	.60
CD74HC154M	296-9182-5-ND	4-16 Line Decoder/Demultiplexer	24-SOIC	.60	.45	.34
CD74HC164E	296-12788-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.72	.54	.41
CD74HC164M	296-12789-5-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.64	.48	.36
CD74HC164M96	296-14514-1-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.64	.48	.36
CD74HC164M96	296-14514-2-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	520.00/2,500		
CD74HC165E	296-12790-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-Dip	.72	.54	.41
CD74HC165M	296-12791-5-ND	8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.64	.48	.36
CD74HC173PWR	296-12792-1-ND	Tri-State Quad D-Type Flip-Flop	16-TSSOP	.48	.36	.27
CD74HC173PWR	296-12792-2-ND	Tri-State Quad D-Type Flip-Flop	16-TSSOP	320.00/2,000		
CD74HC174E	296-14515-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.72	.54	.41
CD74HC192PWR	296-12793-1-ND	Presettable Synchronous 4-Bit Up/Down Counters	16-TSSOP	.60	.45	.34
CD74HC192PWR	296-12793-2-ND	Presettable Synchronous 4-Bit Up/Down Counters	16-TSSOP	400.00/2,000		
CD74HC194E	296-9183-5-ND	4-Bit Bi-Directional Univ. Shift Register	16-Dip	.72	.54	.41
CD74HC194M	296-9185-5-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOIC	.48	.36	.27
CD74HC194M96	296-9185-1-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOIC	.96	.80	.64
CD74HC194M96	296-9185-2-ND	4-Bit Bi-Directional Univ. Shift Register	16-SOIC	390.00/2,500		
CD74HC194PWR	296-12794-1-ND	4-Bit Bi-Directional Univ. Shift Register	16-TSSOP	.48	.36	.27
CD74HC194PWR	296-12794-2-ND	4-Bit Bi-Directional Univ. Shift Register	16-TSSOP	320.00/2,000		
CD74HC195PWR	296-12795-1-ND	4-Bit Parallel Access Register	16-TSSOP	.92	.69	.52
CD74HC195PWR	296-12795-2-ND	4-Bit Parallel Access Register	16-TSSOP	612.00/2,000		
CD74HC221E	296-9187-5-ND	HS Dual Mono Multivibrator w/Reset	16-Dip	.66	.50	.38
CD74HC221M96	296-17789-5-ND	HS Dual Mono Multivibrator w/Reset	16-SOIC	.60	.45	.34
CD74HC221PWR	296-12796-1-ND	HS Dual Mono Multivibrator w/Reset	16-TSSOP	.60	.45	.34
CD74HC221PWR	296-12796-2-ND	HS Dual Mono Multivibrator w/Reset	16-TSSOP	400.00/2,000		
CD74HC237M96	296-12797-1-ND	3-to-8 Line Decoder Demux with Address Latches	16-SOIC	.64	.48	.36
CD74HC237M96	296-12797-2-ND	3-to-8 Line Decoder Demux with Address Latches	16-SOIC	520.00/2,500		
CD74HC237PWR	296-13813-1-ND	3-to-8 Line Decoder Demux HS, CMOS Logic	16-TSSOP	.64	.48	.36
CD74HC237PWR	296-13813-2-ND	3-to-8 Line Decoder Demux HS, CMOS Logic	16-TSSOP	426.00/2,000		
CD74HC238M	296-9188-5-ND	3-to-8 Line Decoder/Demux, Inverting/Non-Inverting	16-SOIC	.48	.36	.27
CD74HC238PWR	296-13814-1-ND	3-to-8 Line Decoder/Demux, HS CMOS Logic, Inverting/Non-Inverting	16-TSSOP	.48	.36	.27
CD74HC238PWR	296-13814-2-ND	3-to-8 Line Decoder/Demux, HS CMOS Logic, Inverting/Non-Inverting	16-TSSOP	320.00/2,000		
CD74HC243M96	296-9189-1-ND	Tri-State Quad Bus Transceiver	14-SOIC	.60	.45	.34
CD74HC243M96	296-9189-2-ND	Tri-State Quad Bus Transceiver	14-SOIC	487.50/2,500		
CD74HC244E	296-12798-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.96	.72	.54
CD74HC244M	296-12799-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.76	.57	.43
CD74HC244M96	296-14516-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.76	.57	.43
CD74HC244M96	296-14516-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	506.00/2,000		
CD74HC245E	296-12800-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.96	.72	.54
CD74HC245M	296-9421-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.76	.57	.43
CD74HC245M96	296-14517-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.76	.57	.43
CD74HC245M96	296-14517-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	506.00/2,000		
CD74HC259M	296-9192-5-ND	8-Bit Addressable Latch	16-SOIC	.76	.57	.43
CD74HC259M96	296-9192-1-ND	8-Bit Addressable Latch	16-SOIC	.76	.57	.43
CD74HC259M96	296-9192-2-ND	8-Bit Addressable Latch	16-SOIC	617.50/2,500		
CD74HC273E	296-12801-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.96	.72	.54
CD74HC280M96	296-14518-1-ND	9-Bit Odd/Even Parity Generator/ Checker	14-SOIC	.84	.63	.48
CD74HC280M96	296-14518-2-ND	9-Bit Odd/Even Parity Generator/ Checker	14-SOIC	682.50/2,500		
CD74HC283E	296-14519-5-ND	4-Bit Binary Full Adder with Fast Carry	16-Dip	.62	.47	.35
CD74HC297E	296-9193-5-ND	Digital Phase-Locked-Loop	16-Dip	2.18	1.74	1.31
CD74HC299E	296-9194-5-ND	Tri-State 8-Bit Universal Shift Register	20-Dip	.80	.60	.45
CD74HC299M	296-9195-5-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.80	.60	.45
CD74HC299M96	296-14520-1-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.80	.60	.45
CD74HC299M96	296-14520-2-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	532.00/2,000		
CD74HC354E	296-9198-5-ND	Tri-State 8-Input Mux/Register	20-Dip	.88	.66	.50
CD74HC367M96	296-14523-1-ND	Tri-State Hex Buffer/Line Driver, Non-Inverting/Inverting	16-SOIC	.76	.57	.43
CD74HC367M96	296-14523-2-ND	Tri-State Hex Buffer/Line Driver, Non-Inverting/Inverting	16-SOIC	617.50/2,500		
CD74HC373E	296-12805-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.96	.72	.54
CD74HC373M	296-9422-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.76	.57	.43
CD74HC373M96	296-14524-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.76	.57	.43
CD74HC373M96	296-14524-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	506.00/2,000		
CD74HC374E	296-12806-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.96	.72	.54
CD74HC374M	296-12807-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.76	.57	.43
CD74HC374M96	296-14525-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.76	.57	.43
CD74HC374M96	296-14525-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	506.00/2,000		
CD74HC390E	296-9199-5-ND	Dual Decade Ripple Counter	16-Dip	.66	.50	.38
CD74HC390M96	296-14526-1-ND	Dual Decade Ripple Counter	16-SOIC	.60	.45	.34
CD74HC390M96	296-14526-2-ND	Dual Decade Ripple Counter	16-SOIC	487.50/2,500		
CD74HC423E	296-9229-5-ND	Dual Retrig. Monostable Multivibrator with Reset	16-Dip	.76	.57	.43
CD74HC540E	296-12812-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.96	.72	.54
CD74HC541E	296-12813-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.96	.72	.54
CD74HC541M	296-12814-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74HC541M96	296-14538-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
CD74HC541M96	296-14538-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	532.00/2,000		
CD74HC573E	296-12815-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.96	.72	.54
CD74HC573M96	296-12816-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
CD74HC573M96	296-12816-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	532.00/2,000		
CD74HC574E	296-12817-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.96	.72	.54
CD74HC574M	296-12818-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
CD74HC595DWR	296-18401-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.80	.60	.45
CD74HC595DWR	296-18401-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	532.00/2,000		
CD74HC595M96	296-18402-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.80	.60	.45
CD74HC595M96	296-18402-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	650.00/2,500		
CD74HC595NSR	296-18403-1-ND	Tri-State 8-Bit Shift Register	16-SOP	.80	.60	.45
CD74HC595NSR	296-18403-2-ND	Tri-State 8-Bit Shift Register	16-SOP	532.00/2,000		
CD74HC595SM96	296-18404-1-ND	Tri-State 8-Bit Shift Register	16-SSOP	.80	.60	.45
CD74HC595SM96	296-18404-2-ND	Tri-State 8-Bit Shift Register	16-SSOP	532.00/2,000		
CD74HC597M96	296-16704-1-ND	High Speed CMOS Logic 8-Bit Shift Register	16-SOIC	1.05	.88	.70
CD74HC597M96	296-16704-2-ND	High Speed CMOS Logic 8-Bit Shift Register	16-SOIC	1137.50/2,500		
CD74HC646M	296-9235-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	2.00	1.60	1.20
CD74HC652EN	296-14539-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.50	1.20	.90
CD74HC670M96	296-9236-1-ND	High Speed CMOS Logic 4-by-4 Register File	16-SOIC	1.20	1.00	.80
CD74HC670M96	296-9236-2-ND	High Speed CMOS Logic 4-by-4 Register File	16-SOIC	1300.00/2,500		
CD74HC4016E	296-9204-5-ND	Quad Bilateral Switch	14-Dip	.80	.60	.45
CD74HC4016M96	296-9205-1-ND	Quad Bilateral Switch	14-SOIC	.80	.60	.45
CD74HC4016M96	296-9205-2-ND	Quad Bilateral Switch	14-SOIC	650.00/2,500		
CD74HC4017M96	296-12808-1-ND	High Speed Decade Counter/Divider	16-SOIC	.56	.42	.32
CD74HC4017M96	296-12808-2-ND	High Speed Decade Counter/Divider	16-SOIC	455.00/2,500		
CD74HC4017PWR	296-9423-1-ND	High Speed Decade Counter/Divider	16-TSSOP	.56	.42	.32
CD74HC4017PWR	296-9423-2-ND	High Speed Decade Counter/Divider	16-TSSOP	372.00/2,000		
CD74HC4020M96	296-12809-1-ND	HS CMOS Logic 14-Bit Binary Counter	16-SOIC	.50	.40	.30
CD74HC4020M96	296-12809-2-ND	HS CMOS Logic 14-Bit Binary Counter	16-SOIC	372.50/2,500		
CD74HC4024E	296-9206-5-ND	7-Stage Binary Ripple Counter	14-Dip	.53	.40	.30
CD74HC4024M	296-9207-5-ND	7-Stage Binary Ripple Counter	14-SOIC	.48	.36	.27
CD74HC4040M96	296-14527-1-ND	12-Stage Binary Counter	16-SOIC	.64	.48	.36
CD74HC4040M96	296-14527-2-ND	12-Stage Binary Counter	16-SOIC	520.00/2,500		
CD74HC4046AE	296-9208-5-ND	Phase-Locked-Loop with VCO	16-Dip	.60	.45	.34
CD74HC4046AM	296-9209-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.60	.45	.34
CD74HC4046AM96	296-14528-1-ND	Phase-Locked-Loop with VCO	16-SOIC	.60	.45	.34
CD74HC4046AM96	296-14528-2-ND	Phase-Locked-Loop with VCO	16-SOIC	487.50/2,500		
CD74HC4046APWR	296-9210-1-ND	Phase-Locked-Loop with VCO	16-TSSOP	.60	.45	.34
CD74HC4046APWR	296-9210-2-ND	Phase-Locked-Loop with VCO	16-TSSOP	400.00/2,000		
CD74HC4049E	296-9211-5-ND	Hex Inverting Buffer	16-Dip	.62	.47	.35
CD74HC4049M	296-9212-5-ND	Hex Inverting Buffer	16-SOIC	.56	.42	.32
CD74HC4049PWR	296-15717-1-ND	Hex Inverting Buffer	16-TSSOP	.56	.42	.32
CD74HC4049PWR	296-15717-2-ND	Hex Inverting Buffer	16-TSSOP	372.00/2,000		
CD74HC4050E	296-9213-5-ND	Hex Non-Inverting Buffer	16-Dip	.55	.44	.33
CD74HC4050M	296-9214-5-ND	Hex Non-Inverting Buffer	16-SOIC	.50	.40	.30
CD74HC4050M96	296-14529-1-ND	Hex Non-Inverting Buffer	16-SOIC	.50	.40	.30
CD74HC4050M96	296-14529-2-ND	Hex Non-Inverting Buffer	16-SOIC	337.50/2,500		
CD74HC4050PWR	296-9215-1-ND	Hex Non-Inverting Buffer	16-TSSOP	.50	.40	.30
CD74HC4050PWR	296-9215-2-ND	Hex Non-Inverting Buffer	16-TSSOP	280.00/2,000		
CD74HC4051E	296-12810-5-ND	HS CMOS Logic Analog Mux/Demux	16-Dip	.48	.37	.28
CD74HC4051M	296-9216-5-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	.55	.44	.33
CD74HC4051M96	296-14530-1-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HC4051M96	296-14530-2-ND	HS CMOS Logic Analog Mux/Demux	16-SOIC	372.50/2,500		
CD74HC4051PWR	296-13031-1-ND	HS CMOS Logic Analog Mux/Demux	16-TSSOP	.50	.40	.30
CD74HC4051PWR	296-13031-2-ND	HS CMOS Logic Analog Mux/Demux	16-TSSOP	308.00/2,000		
CD74HC4052E	296-9217-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.53	.40	.30
CD74HC4052M	296-9218-5-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.48	.36	.27
CD74HC4052M96	296-14531-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.48	.36	.27
CD74HC4052M96	296-14531-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	390.00/2,500		
CD74HC4052PWR	296-17619-1-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.48	.36	.27
CD74HC4052PWR	296-17619-2-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	320.00/2,000		
CD74HC4053E	296-9219-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.44	.33
CD74HC4053M	296-9220-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HC4053M96	296-14532-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HC4053M96	296-14532-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	337.50/2,500		
CD74HC4053PWR	296-12111-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.50	.40	.30
CD74HC4053PWR	296-12111-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	280.00/2,000		
CD74HC4059M96	296-9221-1-ND	CMOS Prog. Divide-by-N Counter	24-SOIC	2.48	1.98	1.49
CD74HC4059M96	296-9221-2-ND	CMOS Prog. Divide-by-N Counter	24-SOIC	2574.00/2,000		
CD74HC4060M	296-9222-5-ND	14-Stage Binary Counter with Oscillator	16-SOIC	.48	.36	.27
CD74HC4066E	296-14533-5-ND	Quad Bilateral Switch	14-Dip	.48	.37	.28
CD74HC4066M	296-9224-5-ND	Quad Bilateral Switch	14-SOIC	.55	.44	.33
CD74HC4066M96	296-9224-1-ND	Quad Bilateral Switch	14-SOIC	.50	.40	.30

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HC4060M96	296-9224-2-ND	Quad Bilateral Switch	14-SOIC	372.50/2,500		
CD74HC4066PWR	296-16703-1-ND	High Speed CMOS Logic Quad Bilateral Switch	14-TSSOP	.50	.40	.30
CD74HC4066PWR	296-16703-2-ND	High Speed CMOS Logic Quad Bilateral Switch	14-TSSOP	308.00/2,000		
CD74HC4067M	296-9225-5-ND	16-Channel Analog Mux/Demux	24-SOIC	.72	.54	.41
CD74HC4067SM96	296-9226-1-ND	16-Channel Analog Mux/Demux	24-SSOP	.88	.66	.50
CD74HC4067SM96	296-9226-2-ND	16-Channel Analog Mux/Demux	24-SSOP	586.00/2,000		
CD74HC4075M	296-9227-5-ND	Triple 3-Input OR Gate	14-SOIC	.48	.36	.27
CD74HC4075M96	296-14534-1-ND	Triple 3-Input OR Gate	14-SOIC	.48	.36	.27
CD74HC4075M96	296-14534-2-ND	Triple 3-Input OR Gate	14-SOIC	390.00/2,500		
CD74HC4075PWR	296-9228-1-ND	Triple 3-Input OR Gate	14-TSSOP	.52	.39	.30
CD74HC4075PWR	296-9228-2-ND	Triple 3-Input OR Gate	14-TSSOP	346.00/2,000		
CD74HC4094M	296-14290-5-ND	Tri-State 8-Stage Bus Register	16-SOIC	.48	.36	.27
CD74HC4094M96	296-14535-1-ND	Tri-State 8-Stage Bus Register	16-SOIC	.48	.36	.27
CD74HC4094M96	296-14535-2-ND	Tri-State 8-Stage Bus Register	16-SOIC	390.00/2,500		
CD74HC4316M	296-9230-5-ND	Quad Analog Switch with Level Translation	16-SOIC	.72	.54	.41
CD74HC4316M96	296-14536-1-ND	Quad Analog Switch with Level Translation	16-SOIC	.72	.54	.41
CD74HC4316M96	296-14536-2-ND	Quad Analog Switch with Level Translation	16-SOIC	585.00/2,500		
CD74HC4351E	296-9231-5-ND	Analog Mux/Demux with Latch	20-Dip	.84	.70	.56
CD74HC4511E	296-14537-5-ND	BCD-to-7 Segment Latch/Decoder/Driver	16-Dip	.80	.60	.45
CD74HC4511M	296-9232-5-ND	BCD-to-7 Segment Latch/Decoder/ Driver	16-SOIC	.80	.60	.45
CD74HC4515M	296-9233-5-ND	4-16 Line Decoder/Demux with Input Latch	24-SOIC	2.13	1.70	1.28
CD74HC4538E	296-12811-5-ND	Dual Retriggerable Precision Monostable Multivibrator	16-Dip	.80	.60	.45
CD74HC4538M	296-9234-5-ND	Dual Retriggerable Precision Monostable Multivibrator	16-SOIC	.72	.54	.41
CD74HC7046AE	296-9237-5-ND	PLL with VCO/Lock Detector	16-Dip	1.93	1.54	1.16
CD74HC7046AM	296-9238-5-ND	PLL with VCO/Lock Detector	16-SOIC	1.93	1.54	1.16
CD74HC7266M	296-9239-5-ND	Quad 2-Input Exclusive NOR Gate	14-SOIC	.78	.65	.52
CD74HC40103E	296-9200-5-ND	8-Stage Synchronous Down Counter	16-Dip	.81	.68	.54
CD74HC40103M	296-9201-5-ND	8-Stage Synchronous Down Counter	16-SOIC	.81	.68	.54
CD74HC40105E	296-9202-5-ND	4-Bit by 16-Word FIFO Register	16-Dip	.78	.65	.52
CD74HC40105M96	296-9203-1-ND	4-Bit by 16-Word FIFO Register	16-SOIC	.78	.65	.52
CD74HC40105M96	296-9203-2-ND	4-Bit by 16-Word FIFO Register	16-SOIC	845.00/2,500		
SN74HC00D	296-1187-5-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HC00DR	296-1187-1-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HC00DR	296-1187-2-ND	Quad 2-Input NAND Gate	14-SOIC	297.50/2,500		
SN74HC00N	296-1563-5-ND	Quad 2-Input NAND Gate	14-Dip	.53	.42	.32
SN74HC00NSR	296-8202-1-ND	Quad 2-Input NAND Gate	14-SOP	.46	.37	.26
SN74HC00NSR	296-8202-2-ND	Quad 2-Input NAND Gate	14-SOP	252.00/2,000		
SN74HC00PWR	296-8203-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.46	.37	.26
SN74HC00PWR	296-8203-2-ND	Quad 2-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74HC00QDRQ1	296-18232-1-ND	Quad 2-Input NAND Gate	14-SOIC	.41	.33	.25
SN74HC00QDRQ1	296-18232-2-ND	Quad 2-Input NAND Gate	14-SOIC	277.50/2,500		
SN74HC02D	296-1188-5-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.26
SN74HC02DR	296-1188-1-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.26
SN74HC02DR	296-1188-2-ND	Quad 2-Input NOR Gate	14-SOIC	297.50/2,500		
SN74HC02DBR	296-8204-1-ND	Quad 2-Input NOR Gate	14-SSOP	.46	.37	.26
SN74HC02DBR	296-8204-2-ND	Quad 2-Input NOR Gate	14-SSOP	252.00/2,000		
SN74HC02N	296-1564-5-ND	Quad 2-Input NOR Gate	14-Dip	.53	.42	.32
SN74HC02NSR	296-8205-1-ND	Quad 2-Input NOR Gate	14-SOP	.46	.37	.26
SN74HC02NSR	296-8205-2-ND	Quad 2-Input NOR Gate	14-SOP	252.00/2,000		
SN74HC02PWR	296-8206-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.46	.37	.26
SN74HC02PWR	296-8206-2-ND	Quad 2-Input NOR Gate	14-TSSOP	252.00/2,000		
SN74HC02QPWREP	296-19505-1-ND	Quad 2-Input NOR Gate ***NEW!***	14-TSSOP	.76	.57	.43
SN74HC02QPWREP	296-19505-2-ND	Quad 2-Input NOR Gate ***NEW!***	14-TSSOP	506.00/2,000		
SN74HC03D	296-9817-5-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC	.46	.37	.26
SN74HC03DR	296-14826-1-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC	.46	.37	.26
SN74HC03DR	296-14826-2-ND	Quad 2-In. NAND Gate with OD Output	14-SOIC	297.50/2,500		
SN74HC03N	296-8207-5-ND	Quad 2-In. NAND Gate with OD Output	14-Dip	.53	.42	.32
SN74HC04D	296-1189-5-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74HC04DBR	296-19247-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74HC04DBR	296-19247-2-ND	Hex Inverter	14-SSOP	252.00/2,000		
SN74HC04DR	296-1189-1-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74HC04DR	296-1189-2-ND	Hex Inverter	14-SOIC	297.50/2,500		
SN74HC04N	296-1566-5-ND	Hex Inverter	14-Dip	.53	.42	.32
SN74HC04NSR	296-12883-1-ND	Hex Inverter	14-SOP	.46	.37	.26
SN74HC04NSR	296-12883-2-ND	Hex Inverter	14-SOP	252.00/2,000		
SN74HC04PWR	296-8208-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74HC04PWR	296-8208-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74HC05D	296-1190-5-ND	Hex Inverter with OD	14-SOIC	.46	.37	.26
SN74HC05DR	296-1190-1-ND	Hex Inverter with OD	14-SOIC	.46	.37	.26
SN74HC05DR	296-1190-2-ND	Hex Inverter with OD	14-SOIC	297.50/2,500		
SN74HC05N	296-1568-5-ND	Hex Inverter with OD	14-Dip	.53	.42	.32
SN74HC08D	296-1191-5-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74HC08DR	296-1191-1-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74HC08DR	296-1191-2-ND	Quad 2-Input AND Gate	14-SOIC	297.50/2,500		
SN74HC08N	296-1570-5-ND	Quad 2-Input AND Gate	14-Dip	.53	.42	.32
SN74HC08NSR	296-12884-1-ND	Quad 2-Input AND Gate	14-SOP	.46	.37	.26
SN74HC08NSR	296-12884-2-ND	Quad 2-Input AND Gate	14-SOP	252.00/2,000		
SN74HC08PWR	296-8210-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	.26
SN74HC08PWR	296-8210-2-ND	Quad 2-Input AND Gate	14-TSSOP	252.00/2,000		
SN74HC10D	296-8213-5-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HC10DR	296-14828-1-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HC10DR	296-14828-2-ND	Triple 3-Input NAND Gate	14-SOIC	297.50/2,500		
SN74HC10N	296-8214-5-ND	Triple 3-Input NAND Gate	14-Dip	.53	.42	.32
SN74HC11D	296-8216-5-ND	Triple 3-Input Positive AND Gate	14-SOIC	.46	.37	.26
SN74HC11DR	296-14830-1-ND	Triple 3-Input Positive AND Gate	14-SOIC	.46	.37	.26
SN74HC11DR	296-14830-2-ND	Triple 3-Input Positive AND Gate	14-SOIC	297.50/2,500		
SN74HC11N	296-8217-5-ND	Triple 3-Input Positive AND Gate	14-Dip	.53	.42	.32
SN74HC11NSR	296-12885-1-ND	Triple 3-Input Positive AND Gate	14-SOP	.46	.37	.26
SN74HC11NSR	296-12885-2-ND	Triple 3-Input Positive AND Gate	14-SOP	252.00/2,000		
SN74HC11PWR	296-13611-1-ND	Triple 3-Input Positive AND Gate	14-TSSOP	.46	.37	.26
SN74HC11PWR	296-13611-2-ND	Triple 3-Input Positive AND Gate	14-TSSOP	252.00/2,000		
SN74HC14D	296-1194-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74HC14DR	296-1194-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74HC14DR	296-1194-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	297.50/2,500		
SN74HC14N	296-1577-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.53	.42	.32
SN74HC14NSR	296-12887-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	.46	.37	.26
SN74HC14NSR	296-12887-2-ND	Hex Schmitt-Trigger Inverter	14-SOP	252.00/2,000		
SN74HC14PWR	296-8234-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.46	.37	.26
SN74HC14PWR	296-8234-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	252.00/2,000		
SN74HC14QDRQ1	296-19248-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.41	.33	.25
SN74HC14QDRQ1	296-19248-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	277.50/2,500		
SN74HC14QPWRQ1	296-17530-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.44	.35	.27
SN74HC14QPWRQ1	296-17530-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	244.00/2,000		
SN74HC20DR	296-8263-1-ND	Dual 4-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HC20DR	296-8263-2-ND	Dual 4-Input NAND Gate	14-SOIC	297.50/2,500		
SN74HC20N	296-12892-5-ND	Dual 4-Input NAND Gate	14-Dip	.53	.42	.32
SN74HC20NSR	296-12893-1-ND	Dual 4-Input NAND Gate	14-SOP	.46	.37	.26
SN74HC20NSR	296-12893-2-ND	Dual 4-Input NAND Gate	14-SOP	252.00/2,000		
SN74HC21D	296-8265-5-ND	Dual 4-Input Positive AND Gate	14-SOIC	.46	.37	.26
SN74HC21DR	296-14842-1-ND	Dual 4-Input Positive AND Gate	14-SOIC	.46	.37	.26
SN74HC21DR	296-14842-2-ND	Dual 4-Input Positive AND Gate	14-SOIC	297.50/2,500		
SN74HC21N	296-8266-5-ND	Dual 4-Input Positive AND Gate	14-Dip	.53	.42	.32
SN74HC21NSR	296-13216-1-ND	Dual 4-Input Positive AND Gate	14-SOP	.46	.37	.26
SN74HC21NSR	296-13216-2-ND	Dual 4-Input Positive AND Gate	14-SOP	252.00/2,000		
SN74HC21PWR	296-15846-1-ND	Dual 4-Input Positive AND Gate	14-TSSOP	.46	.37	.26
SN74HC21PWR	296-15846-2-ND	Dual 4-Input Positive AND Gate	14-TSSOP	252.00/2,000		
SN74HC21QPWRQ1	296-18317-1-ND	Dual 4-Input Positive AND Gate	14-TSSOP	.41	.33	.25
SN74HC21QPWRQ1	296-18317-2-ND	Dual 4-Input Positive AND Gate	14-TSSOP	230.00/2,000		
SN74HC27D	296-8298-5-ND	Triple 3-Input NOR Gate	14-SOIC	.46	.37	.26
SN74HC27DR	296-14848-1-ND	Triple 3-Input NOR Gate	14-SOIC	.46	.37	.26
SN74HC27DR	296-14848-2-ND	Triple 3-Input NOR Gate	14-SOIC	297.50/2,500		
SN74HC27N	296-12896-5-ND	Triple 3-Input NOR Gate	14-Dip	.53	.42	.32
SN74HC27NSR	296-8299-1-ND	Triple 3-Input NOR Gate	14-SOP	.46	.37	.26
SN74HC27NSR	296-8299-2-ND	Triple 3-Input NOR Gate	14-SOP	252.00/2,000		
SN74HC32D	296-1199-5-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	.26
SN74HC32DR	296-1199-1-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	.26
SN74HC32DR	296-1199-2-ND	Quad 2-Input OR Gate	14-SOIC	297.50/2,500		
SN74HC32DBR	296-8301-1-ND	Quad 2-Input OR Gate	14-SSOP	.46	.37	.26
SN74HC32DBR	296-8301-2-ND	Quad 2-Input OR Gate	14-SSOP	252.00/2,000		
SN74HC32N	296-1589-5-ND	Quad 2-Input OR Gate	14-Dip	.53	.42	.32
SN74HC32PWR	296-8302-1-ND	Quad 2-Input OR Gate	14-TSSOP	.46	.37	.26
SN74HC32PWR	296-8302-2-ND	Quad 2-Input OR Gate	14-TSSOP	252.00/2,000		
SN74HC42D	296-8331-5-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC	.96	.72	.54
SN74HC42DR	296-8331-1-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC	.96	.72	.54
SN74HC42DR	296-8331-2-ND	4-to-10 Line Decoder (1 of 10)	16-SOIC	780.00/2,500		
SN74HC42N	296-8332-5-ND	4-to-10 Line Decoder (1 of 10)	16-Dip	.96	.72	.54
SN74HC74D	296-1204-5-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOIC	.46	.37	.26
SN74HC74DR	296-1204-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOIC	.46	.37	.26
SN74HC74DR	296-1204-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOIC	297.50/2,500		
SN74HC74DBR	296-8370-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SSOP	.46	.37	.26
SN74HC74DBR	296-8370-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SSOP	252.00/2,000		
SN74HC74N	296-1602-5-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-Dip	.53	.42	.32
SN74HC74NSR	296-8371-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOP	.46	.37	.26
SN74HC74NSR	296-8371-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-SOP	252.00/2,000		
SN74HC74PWR	296-8372-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	.46	.37	.26
SN74HC74PWR	296-8372-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	252.00/2,000		
SN74HC74QPWRQ1	296-19255-1-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	.44	.35	.27
SN74HC74QPWRQ1	296-19255-2-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop with Clear/Preset	14-TSSOP	244.00/2,000		
SN74HC86D	296-8374-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.37	.26
SN74HC86DR	296-14859-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.37	.26
SN74HC86DR	296-14859-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	297.50/2,500		
SN74HC86N	296-8375-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.53	.42	.32
SN74HC86PWR	296-8376-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.40	.32	.24
SN74HC86PWR	296-8376-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	224.00/2,000		
SN74HC109D	296-8211-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.45	.36	.27
SN74HC109DR	296-14827-1-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.45	.36	.27
SN74HC109DR	296-14827-2-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	305.00/2,500		
SN74HC109N	296-8212-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-Dip	.53	.42	.32
SN74HC112D	296-8215-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.55	.44	.33
SN74HC112DR	296-14829-1-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	.55	.44	.33
SN74HC112DR	296-14829-2-ND	Dual J-K Flip-Flop with Clear and Preset	16-SOIC	372.50/2,500		
SN74HC112N	296-12121-5-ND	Dual J-K Flip-Flop with Clear and Preset	16-Dip	.55	.44	.33
SN74HC125D	296-1192-5-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HC125DR	296-1192-1-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HC125DR	296-1192-2-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	372.50/2,500		
SN74HC125DBR	296-8218-1-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74HC125DBR	296-8218-2-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	308.00/2,000		
SN74HC125N	296-1572-5-ND	Quad Tri-State Bus Buffer Gate	14-Dip	.48	.36	.27
SN74HC125PWT	296-16821-1-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	.78	.65	.52
SN74HC125PWT	296-16821-2-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	97.50/250		
SN74HC126D	296-8219-5-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HC126DBR	296-8220-1-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	.55	.44	.33
SN74HC126DBR	296-8220-2-ND	Quad Tri-State Bus Buffer Gate	14-SSOP	308.00/2,000		
SN74HC126DR	296-14831-1-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HC126DR	296-14831-2-ND	Quad Tri-State Bus Buffer Gate	14-SOIC	372.50/2,500		
SN74HC126N	296-8221-5-ND	Quad Tri-State Bus Buffer Gate	14-Dip	.48	.36	.27
SN74HC126NSR	296-8222-1-ND	Quad Tri-State Bus Buffer Gate	14-SOP	.55	.44	.33
SN74HC126NSR	296-8222-2-ND	Quad Tri-State Bus Buffer Gate	14-SOP	308.00/2,000		
SN74HC126PWT	296-16822-1-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	.78	.65	.52
SN74HC126PWT	296-16822-2-ND	Quad Tri-State Bus Buffer Gate	14-TSSOP	97.50/250		
SN74HC132D	296-8224-5-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC	.55	.44	.33
SN74HC132DBR	296-8225-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SSOP	.55	.44	.33
SN74HC132DBR	296-8225-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SSOP	308.00/2,000		
SN74HC132DR	296-14832-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC	.55	.44	.33

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HC132DR	296-14832-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-SOIC	372.50/2,500		
SN74HC132N	296-1573-5-ND	Quad NAND Gate w/Schmitt-Trigger In	14-Dip	.48	.36	.27
SN74HC132PWR	296-8226-1-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP	.55	.44	.33
SN74HC132PWR	296-8226-2-ND	Quad NAND Gate w/Schmitt-Trigger In	14-TSSOP	308.00/2,000		
SN74HC138D	296-1193-5-ND	3-to-8 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74HC138DR	296-1193-1-ND	3-to-8 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74HC138DR	296-1193-2-ND	3-to-8 Line Decoder/Demux	16-SOIC	372.50/2,500		
SN74HC138DBR	296-8227-1-ND	3-to-8 Line Decoder/Demux	16-SSOP	.55	.44	.33
SN74HC138DBR	296-8227-2-ND	3-to-8 Line Decoder/Demux	16-SSOP	308.00/2,000		
SN74HC138N	296-1575-5-ND	3-to-8 Line Decoder/Demux	16-Dip	.48	.36	.27
SN74HC138NSR	296-12886-1-ND	3-to-8 Line Decoder/Demux	16-SOP	.55	.44	.33
SN74HC138NSR	296-12886-2-ND	3-to-8 Line Decoder/Demux	16-SOP	308.00/2,000		
SN74HC138PWR	296-8228-1-ND	3-to-8 Line Decoder/Demux	16-TSSOP	.55	.44	.33
SN74HC138PWR	296-8228-2-ND	3-to-8 Line Decoder/Demux	16-TSSOP	308.00/2,000		
SN74HC139D	296-8229-5-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74HC139DR	296-14833-1-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74HC139DR	296-14833-2-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	372.50/2,500		
SN74HC139N	296-8230-5-ND	Dual 2-4 Line Decoder/Demux	16-Dip	.48	.36	.27
SN74HC139PWR	296-8231-1-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	.55	.44	.33
SN74HC139PWR	296-8231-2-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	308.00/2,000		
SN74HC148D	296-8232-5-ND	8-to-3 Line Priority Encoder	16-SOIC	.55	.44	.33
SN74HC148N	296-8233-5-ND	8-to-3 Line Priority Encoder	16-Dip	.55	.44	.33
SN74HC151D	296-8235-5-ND	8-1 Line Data Selector/Mux	16-SOIC	.55	.44	.33
SN74HC151DR	296-14834-1-ND	8-1 Line Data Selector/Mux	16-SOIC	.55	.44	.33
SN74HC151DR	296-14834-2-ND	8-1 Line Data Selector/Mux	16-SOIC	372.50/2,500		
SN74HC151N	296-8236-5-ND	8-1 Line Data Selector/Mux	16-Dip	.48	.36	.27
SN74HC153D	296-8237-5-ND	Dual 4-1 Line Data Selector/Mux	16-SOIC	.55	.44	.33
SN74HC153DR	296-14835-1-ND	Dual 4-1 Line Data Selector/Mux	16-SOIC	.55	.44	.33
SN74HC153DR	296-14835-2-ND	Dual 4-1 Line Data Selector/Mux	16-SOIC	372.50/2,500		
SN74HC153PWR	296-12888-1-ND	Dual 4-1 Line Data Selector/Mux	16-TSSOP	.55	.44	.33
SN74HC153PWR	296-12888-2-ND	Dual 4-1 Line Data Selector/Mux	16-TSSOP	308.00/2,000		
SN74HC153N	296-8238-5-ND	Dual 4-1 Line Data Selector/Mux	16-Dip	.48	.36	.27
SN74HC157D	296-8239-5-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.48	.36	.27
SN74HC157DR	296-14836-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.48	.36	.27
SN74HC157DR	296-14836-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC	390.00/2,500		
-SN74HC157N	296-1578-5-ND	Quad 2-1 Data Selector/Mux	16-Dip	.53	.40	.30
SN74HC157NSR	296-8240-1-ND	Quad 2-1 Data Selector/Mux	16-SOP	.48	.36	.27
SN74HC157NSR	296-8240-2-ND	Quad 2-1 Data Selector/Mux	16-SOP	320.00/2,000		
SN74HC161D	296-8243-5-ND	4-Bit Sync. Binary Counter	16-SOIC	.55	.44	.33
SN74HC161DR	296-14837-1-ND	4-Bit Sync. Binary Counter	16-SOIC	.55	.44	.33
SN74HC161DR	296-14837-2-ND	4-Bit Sync. Binary Counter	16-SOIC	372.50/2,500		
SN74HC161N	296-8244-5-ND	4-Bit Sync. Binary Counter	16-Dip	.53	.40	.30
SN74HC163D	296-8245-5-ND	4-Bit Sync. Binary Counter	16-SOIC	.55	.44	.33
SN74HC163N	296-8246-5-ND	4-Bit Sync. Binary Counter	16-Dip	.48	.36	.27
SN74HC163NSR	296-12889-1-ND	4-Bit Sync. Binary Counter	16-SOP	.55	.44	.33
SN74HC163NSR	296-12889-2-ND	4-Bit Sync. Binary Counter	16-SOP	308.00/2,000		
SN74HC164D	296-8247-5-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.55	.44	.33
SN74HC164DR	296-14838-1-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.55	.44	.33
SN74HC164DR	296-14838-2-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	372.50/2,500		
SN74HC164N	296-8248-5-ND	8-Bit Parallel-Out Serial Shift Register	14-Dip	.48	.36	.27
SN74HC164PWR	296-14020-1-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	.55	.44	.33
SN74HC164PWR	296-14020-2-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	308.00/2,000		
SN74HC165D	296-8249-5-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.55	.44	.33
SN74HC165DR	296-8250-1-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.55	.44	.33
SN74HC165DR	296-8250-2-ND	8-Bit Parallel-Load Shift Register	16-SOIC	372.50/2,500		
SN74HC165N	296-8251-5-ND	8-Bit Parallel-Load Shift Register	16-Dip	.48	.36	.27
SN74HC165NSR	296-8252-1-ND	8-Bit Parallel-Load Shift Register	16-SOP	.55	.44	.33
SN74HC165NSR	296-8252-2-ND	8-Bit Parallel-Load Shift Register	16-SOP	308.00/2,000		
SN74HC165PWR	296-8253-1-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	.55	.44	.33
SN74HC165PWR	296-8253-2-ND	8-Bit Parallel-Load Shift Register	16-TSSOP	308.00/2,000		
SN74HC166D	296-8254-5-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.55	.44	.33
SN74HC166DR	296-14839-1-ND	8-Bit Parallel-Load Shift Register	16-SOIC	.55	.44	.33
SN74HC166DR	296-14839-2-ND	8-Bit Parallel-Load Shift Register	16-SOIC	372.50/2,500		
SN74HC166N	296-8255-5-ND	8-Bit Parallel-Load Shift Register	16-Dip	.48	.36	.27
SN74HC166NSR	296-13214-1-ND	8-Bit Parallel-Load Shift Register	16-SOP	.55	.44	.33
SN74HC166NSR	296-13214-2-ND	8-Bit Parallel-Load Shift Register	16-SOP	308.00/2,000		
SN74HC174D	296-1195-5-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.55	.44	.33
SN74HC174DBR	296-19249-1-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	.55	.44	.33
SN74HC174DBR	296-19249-2-ND	Hex D-Type Flip-Flop with Clear	16-SSOP	308.00/2,000		
SN74HC174DR	296-1195-1-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.55	.44	.33
SN74HC174DR	296-1195-2-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	372.50/2,500		
SN74HC174N	296-1579-5-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.48	.36	.27
SN74HC174NSR	296-13215-1-ND	Hex D-Type Flip-Flop with Clear	16-SOP	.55	.44	.33
SN74HC174NSR	296-13215-2-ND	Hex D-Type Flip-Flop with Clear	16-SOP	308.00/2,000		
SN74HC175D	296-8256-5-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.55	.44	.33
SN74HC175DR	296-14840-1-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.55	.44	.33
SN74HC175DR	296-14840-2-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	372.50/2,500		
SN74HC175N	296-8257-5-ND	Quad D-Type Flip-Flop with Clear	16-Dip	.48	.36	.27
SN74HC175PWR	296-8258-1-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	.55	.44	.33
SN74HC175PWR	296-8258-2-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	308.00/2,000		
SN74HC191D	296-8259-5-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC	.48	.36	.27
SN74HC191DR	296-14841-1-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC	.48	.36	.27
SN74HC191DR	296-14841-2-ND	4-Bit Sync. Up/Down Binary Counter	16-SOIC	390.00/2,500		
SN74HC191N	296-8260-5-ND	4-Bit Sync. Up/Down Binary Counter	16-Dip	.53	.40	.30
SN74HC191NSR	296-12890-1-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	.48	.36	.27
SN74HC191NSR	296-12890-2-ND	4-Bit Sync. Up/Down Binary Counter	16-SOP	320.00/2,000		
SN74HC193D	296-8261-5-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOIC	.48	.36	.27
SN74HC193N	296-8262-5-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-Dip	.53	.40	.30
SN74HC193NSR	296-12891-1-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOP	.48	.36	.27
SN74HC193NSR	296-12891-2-ND	4-Bit Sync. Up/Down Counter (Dual Clock with Clear)	16-SOP	320.00/2,000		
SN74HC240DW	296-8267-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HC240DWR	296-14843-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HC240DWR	296-14843-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	400.00/2,000		
SN74HC240N	296-1580-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.66	.50	.38
SN74HC240PWR	296-8269-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.60	.45	.34
SN74HC240PWR	296-8269-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	400.00/2,000		
SN74HC241DW	296-8270-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HC241N	296-8271-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.62	.47	.35
SN74HC241PWR	296-19250-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.56	.42	.32
SN74HC241PWR	296-19250-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	372.00/2,000		
SN74HC244DBR	296-8273-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.60	.45	.34
SN74HC244DBR	296-8273-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	400.00/2,000		
SN74HC244DW	296-1196-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HC244DWR	296-1196-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HC244DWR	296-1196-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	400.00/2,000		
SN74HC244MDWREP	296-18125-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1.43	1.14	.86
SN74HC244MDWREP	296-18125-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	1482.00/2,000		
SN74HC244N	296-1582-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.66	.50	.38
SN74HC244NSR	296-8274-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.60	.45	.34
SN74HC244NSR	296-8274-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	400.00/2,000		
SN74HC244PWR	296-8276-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.60	.45	.34
SN74HC244PWR	296-8276-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	400.00/2,000		
SN74HC245DBR	296-8277-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.60	.45	.34
SN74HC245DBR	296-8277-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	400.00/2,000		
SN74HC245DW	296-1197-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74HC245DWR	296-1197-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74HC245DWR	296-1197-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	400.00/2,000		
SN74HC245N	296-1584-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.66	.50	.38
SN74HC245NSR	296-8278-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.60	.45	.34
SN74HC245NSR	296-8278-2-ND	Tri-State Octal Bus Transceiver	20-SOP	400.00/2,000		
SN74HC245PWR	296-8279-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.60	.45	.34
SN74HC245PWR	296-8279-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	400.00/2,000		
SN74HC251D	296-8280-5-ND	Tri-State Data Selector/Mux	16-SOIC	.53	.42	.32
SN74HC251DBR	296-12894-1-ND	Tri-State Data Selector/Mux	16-SSOP	.53	.42	.32
SN74HC251DBR	296-12894-2-ND	Tri-State Data Selector/Mux	16-SSOP	294.00/2,000		
SN74HC251DR	296-14844-1-ND	Tri-State Data Selector/Mux	16-SOIC	.53	.42	.32
SN74HC251DR	296-14844-2-ND	Tri-State Data Selector/Mux	16-SOIC	355.00/2,500		
SN74HC251N	296-1585-5-ND	Tri-State Data Selector/Mux	16-Dip	.55	.44	.33
SN74HC251NSR	296-13217-1-ND	Tri-State Data Selector/Mux	16-SOP	.53	.42	.32
SN74HC251NSR	296-13217-2-ND	Tri-State Data Selector/Mux	16-SOP	294.00/2,000		
SN74HC253D	296-8281-5-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC	.48	.36	.27
SN74HC253DBR	296-8282-1-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SSOP	.48	.36	.27
SN74HC253DBR	296-8282-2-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SSOP	320.00/2,000		
SN74HC253DR	296-14845-1-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC	.48	.36	.27
SN74HC253DR	296-14845-2-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-SOIC	390.00/2,500		
SN74HC253N	296-8283-5-ND	Tri-St. Dual 4-1 Line Data Selector/Mux	16-Dip	.53	.40	.30
SN74HC257D	296-8284-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	.53	.42	.32
SN74HC257DR	296-14846-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	.53	.42	.32
SN74HC257DR	296-14846-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	355.00/2,500		
SN74HC257N	296-8285-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-Dip	.55	.44	.33
SN74HC257NSR	296-8286-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOP	.53	.42	.32
SN74HC257NSR	296-8286-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOP	294.00/2,000		
SN74HC257PWR	296-8287-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-TSSOP	.53	.42	.32
SN74HC257PWR	296-8287-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-TSSOP	294.00/2,000		
SN74HC259D	296-8290-5-ND	8-Bit Addressable Latch	16-SOIC	.53	.42	.32
SN74HC259DR	296-14847-1-ND	8-Bit Addressable Latch	16-SOIC	.53	.42	.32
SN74HC259DR	296-14847-2-ND	8-Bit Addressable Latch	16-SOIC	355.00/2,500		
SN74HC259N	296-8291-5-ND	8-Bit Addressable Latch	16-Dip	.55	.44	.33
SN74HC259NSR	296-12895-1-ND	8-Bit Addressable Latch	16-SOP	.53	.42	.32
SN74HC259NSR	296-12895-2-ND	8-Bit Addressable Latch	16-SOP	294.00/2,000		
SN74HC259PWR	296-8292-1-ND	8-Bit Addressable Latch	16-TSSOP	.53	.42	.32
SN74HC259PWR	296-8292-2-ND	8-Bit Addressable Latch	16-TSSOP	294.00/2,000		
SN74HC266D	296-8293-5-ND	Quad 2-Input Exclusive NOR Gate with Open-Drain Output	14-SOIC	.53	.42	.32
SN74HC266N	296-8294-5-ND	Quad 2-Input Exclusive NOR Gate with Open-Drain Output	14-Dip	.55	.44	.33
SN74HC273DBR	296-8295-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.55	.44	.33
SN74HC273DBR	296-8295-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	308.00/2,000		
SN74HC273DW	296-1198-5-ND	Octal D-Type Flip-Flop	20-SOIC	.55	.44	.33
SN74HC273DWR	296-1198-1-ND	Octal D-Type Flip-Flop	20-SOIC	.55	.44	.33
SN74HC273DWR	296-1198-2-ND	Octal D-Type Flip-Flop	20-SOIC	308.00/2,000		
SN74HC273N	296-1587-5-ND	Octal D-Type Flip-Flop	20-Dip	.48	.36	.27
SN74HC273NSR	296-8296-1-ND	Octal D-Type Flip-Flop with Clear	20-SOP	.55	.44	.33
SN74HC273NSR	296-8296-2-ND	Octal D-Type Flip-Flop with Clear	20-SOP	308.00/2,000		
SN74HC273PWR	296-8297-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.55	.44	.33
SN74HC273PWR	296-8297-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	308.00/2,000		
SN74HC365D	296-8303-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC365N	296-8304-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.52	.39	.30
SN74HC365NSR	296-12897-1-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.52	.39	.30
SN74HC365NSR	296-12897-2-ND	Tri-State Hex Buffer/Line Driver	16-SOP	346.00/2,000		
SN74HC367D	296-8305-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC367DR	296-14849-1-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC367DR	296-14849-2-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	422.50/2,500		
SN74HC367N	296-8306-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.64	.48	.36
SN74HC367NSR	296-12898-1-ND	Tri-State Hex Buffer/Line Driver	16-SOP	.52	.39	.30
SN74HC367NSR	296-12898-2-ND	Tri-State Hex Buffer/Line Driver	16-SOP	346.00/2,000		
SN74HC368D	296-8307-5-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC368DR	296-14850-1-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	.52	.39	.30
SN74HC368DR	296-14850-2-ND	Tri-State Hex Buffer/Line Driver	16-SOIC	422.50/2,500		
SN74HC368N	296-8308-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.57	.43	.33
SN74HC373DBR	296-8309-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	.60	.45	.34
SN74HC373DBR	296-8309-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SSOP	400.00/2,000		
SN74HC373DW	296-1200-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
SN74HC373DWR	296-1200-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
SN74HC373DWR	296-1200-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	400.00/2,000		
SN74HC373N	296-1591-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.66	.50	.38
SN74HC373NSR	296-8310-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.60	.45	.34
SN74HC373NSR	296-8310-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	400.00/2,000		
SN74HC373PWR	296-8311-1-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	.60	.45	.34
SN74HC373PWR	296-8311-2-ND	Tri-St. Octal Transparent D-Type Latch	20-TSSOP	400.00/2,000		
SN74HC374DBR	296-8312-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74HC374DBR	296-8312-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	400.00/2,000		
SN74HC374DW	296-1201-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HC374DWR	296-1201-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HC374DWR	296-1201-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	400.00/2,000		
SN74HC374N	296-1592-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
SN74HC374NSR	296-8313-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	.60	.45	.34
SN74HC374NSR	296-8313-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOP	400.00/2,000		
SN74HC374PWR	296-8314-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	.34

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
				Price Each★		
SN74HC374PWR	296-8314-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		400.00/2,000	
SN74HC377DW	296-9818-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOIC	.48	.36	.27
SN74HC377DWR	296-9818-1-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOP	.48	.36	.27
SN74HC377DWR	296-9818-2-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOP		320.00/2,000	
SN74HC377N	296-8316-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-Dip	.53	.40	.30
SN74HC393D	296-8317-5-ND	Dual 4-Bit Binary Counter	14-SOIC	.50	.40	.30
SN74HC393DBR	296-8318-1-ND	Dual 4-Bit Binary Counter	14-SSOP	.50	.40	.30
SN74HC393DBR	296-8318-2-ND	Dual 4-Bit Binary Counter	14-SSOP		280.00/2,000	
SN74HC393DR	296-14851-1-ND	Dual 4-Bit Binary Counter	14-SOIC	.50	.40	.30
SN74HC393DR	296-14851-2-ND	Dual 4-Bit Binary Counter	14-SOIC		337.50/2,500	
SN74HC393N	296-8319-5-ND	Dual 4-Bit Binary Counter	14-Dip	.50	.40	.30
SN74HC540DWR	296-8333-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HC540DWR	296-8333-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		372.00/2,000	
SN74HC540N	296-8334-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.62	.47	.35
SN74HC541DBR	296-14855-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.56	.42	.32
SN74HC541DBR	296-14855-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP		372.00/2,000	
SN74HC541DW	296-1202-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HC541DWR	296-1202-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HC541DWR	296-1202-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		372.00/2,000	
SN74HC541N	296-1594-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.62	.47	.35
SN74HC541NSR	296-13218-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.56	.42	.32
SN74HC541NSR	296-13218-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP		372.00/2,000	
SN74HC541PWR	296-8335-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.56	.42	.32
SN74HC541PWR	296-8335-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP		372.00/2,000	
SN74HC573ADW	296-1203-5-ND	Tri-State Octal D-Type Latch	20-SOIC	.60	.45	.34
SN74HC573ADWR	296-1203-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.60	.45	.34
SN74HC573ADWR	296-1203-2-ND	Tri-State Octal D-Type Latch	20-SOIC		400.00/2,000	
SN74HC573AN	296-1596-5-ND	Tri-State Octal D-Type Latch	20-Dip	.66	.50	.38
SN74HC573APWR	296-8338-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.60	.45	.34
SN74HC573APWR	296-8338-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP		400.00/2,000	
SN74HC574DW	296-1597-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HC574DWR	296-1597-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HC574DWR	296-1597-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		400.00/2,000	
SN74HC574N	296-1598-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
SN74HC574PWR	296-8339-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	.34
SN74HC574PWR	296-8339-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		400.00/2,000	
SN74HC590AD	296-8340-5-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.60	.45	.34
SN74HC590ADR	296-17132-1-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.60	.45	.34
SN74HC590ADR	296-17132-2-ND	Tri-State 8-Bit Binary Counter	16-SOIC		487.50/2,500	
SN74HC590ADW	296-8341-5-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.60	.45	.34
SN74HC590ADWR	296-14856-1-ND	Tri-State 8-Bit Binary Counter	16-SOIC	.60	.45	.34
SN74HC590ADWR	296-14856-2-ND	Tri-State 8-Bit Binary Counter	16-SOIC		400.00/2,000	
SN74HC590AN	296-1599-5-ND	Tri-State 8-Bit Binary Counter	16-Dip	.66	.50	.38
SN74HC594DW	296-8342-5-ND	8-Bit Shift Register with Output Register	16-SOIC	.75	.63	.50
SN74HC594N	296-8343-5-ND	8-Bit Shift Register with Output Register	16-Dip	.75	.63	.50
SN74HC595D	296-8344-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.60	.45	.34
SN74HC595DR	296-14857-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.60	.45	.34
SN74HC595DR	296-14857-2-ND	Tri-State 8-Bit Shift Register	16-SOIC		487.50/2,500	
SN74HC595DW	296-8345-5-ND	Tri-State 8-Bit Shift Register	16-SOIC	.60	.45	.34
SN74HC595DWR	296-14858-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.60	.45	.34
SN74HC595DWR	296-14858-2-ND	Tri-State 8-Bit Shift Register	16-SOIC		400.00/2,000	
SN74HC595N	296-1600-5-ND	Tri-State 8-Bit Shift Register	16-Dip	.66	.50	.38
SN74HC623DW	296-8346-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	5.20	4.16	3.51
SN74HC623N	296-8347-5-ND	Tri-State Octal Bus Transceiver	20-Dip	5.20	4.16	3.51
SN74HC640DW	296-8348-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.35	1.13	.90
SN74HC640N	296-8349-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.35	1.13	.90
SN74HC645DW	296-8350-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.20	1.00	.80
SN74HC645N	296-8351-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.20	1.00	.80
SN74HC646DW	296-8352-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.20	1.00	.80
SN74HC646NT	296-8353-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.20	1.00	.80
SN74HC652DW	296-8354-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.50	1.20	.90
SN74HC652NT	296-8355-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.88	1.50	1.13
SN74HC682DWR	296-8356-1-ND	8-Bit Magnitude Comparator	20-SOIC	3.31	2.65	2.06
SN74HC682DWR	296-8356-2-ND	8-Bit Magnitude Comparator	20-SOIC		3748.00/2,000	
SN74HC682N	296-8357-5-ND	8-Bit Magnitude Comparator	20-Dip	3.31	2.65	2.06
SN74HC684DW	296-8358-5-ND	8-Bit Magnitude Comparator	20-SOIC	5.80	4.64	3.92
SN74HC684N	296-8359-5-ND	8-Bit Magnitude Comparator	20-Dip	6.00	4.80	4.05
SN74HC688DW	296-8360-5-ND	8-Bit Identity Comparator	20-SOIC	.81	.68	.54
SN74HC688N	296-8361-5-ND	8-Bit Identity Comparator	20-Dip	.81	.68	.54
SN74HC688PWR	296-8362-1-ND	8-Bit Identity Comparator	20-TSSOP	.81	.68	.54
SN74HC688PWR	296-8362-2-ND	8-Bit Identity Comparator	20-TSSOP		718.00/2,000	
SN74HC4020D	296-8320-5-ND	14-Bit Async. Binary Counter	16-SOIC	.54	.41	.31
SN74HC4020N	296-8321-5-ND	14-Bit Async. Binary Counter	16-Dip	.54	.41	.31
SN74HC4040D	296-8322-5-ND	12-Bit Async. Binary Counter	16-SOIC	.54	.41	.31
SN74HC4040DBR	296-8323-1-ND	12-Bit Async. Binary Counter	16-SSOP	.54	.41	.31
SN74HC4040DBR	296-8323-2-ND	12-Bit Async. Binary Counter	16-SSOP		360.00/2,000	
SN74HC4040DR	296-14852-1-ND	12-Bit Async. Binary Counter	16-SOIC	.54	.41	.31
SN74HC4040DR	296-14852-2-ND	12-Bit Async. Binary Counter	16-SOIC		440.00/2,500	
SN74HC4040N	296-8324-5-ND	12-Bit Async. Binary Counter	16-Dip	.54	.41	.31
SN74HC4040PWR	296-8325-1-ND	12-Bit Async. Binary Counter	16-TSSOP	.54	.41	.31
SN74HC4040PWR	296-8325-2-ND	12-Bit Async. Binary Counter	16-TSSOP		360.00/2,000	
SN74HC4060D	296-8326-5-ND	14-Stage Async. Binary Counter and Oscillator	16-SOIC	.56	.42	.32
SN74HC4060DR	296-14853-1-ND	14-Stage Async. Binary Counter and Oscillator	16-SOIC	.56	.42	.32
SN74HC4060DR	296-14853-2-ND	14-Stage Async. Binary Counter and Oscillator	16-SOIC		455.00/2,500	
SN74HC4060N	296-8209-5-ND	14-Stage Async. Binary Counter and Oscillator	16-Dip	.56	.42	.32
SN74HC4066D	296-8327-5-ND	Quad Bilateral Analog Switch	14-SOIC	.50	.40	.30
SN74HC4066DBR	296-8328-1-ND	Quad Bilateral Analog Switch	14-SSOP	.50	.40	.30
SN74HC4066DBR	296-8328-2-ND	Quad Bilateral Analog Switch	14-SSOP		280.00/2,000	
SN74HC4066DR	296-14854-1-ND	Quad Bilateral Analog Switch	14-SOIC	.50	.40	.30
SN74HC4066DR	296-14854-2-ND	Quad Bilateral Analog Switch	14-SOIC		337.50/2,500	
SN74HC4066N	296-8329-5-ND	Quad Bilateral Analog Switch	14-Dip	.50	.40	.30
SN74HC4066PWR	296-8330-1-ND	Quad Bilateral Analog Switch	14-TSSOP	.50	.40	.30
SN74HC4066PWR	296-8330-2-ND	Quad Bilateral Analog Switch	14-TSSOP		280.00/2,000	
SN74HC4851DGVR	296-19251-1-ND	8-Channel Analog Mux/Demux	16-TVSOP	.72	.54	.41
SN74HC4851DGVR	296-19251-2-ND	8-Channel Analog Mux/Demux	16-TVSOP			478.00
SN74HC4851DR	296-15740-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.64	.48	.36
SN74HC4851DR	296-15740-2-ND	8-Channel Analog Mux/Demux	16-SOIC		520.00/2,500	
SN74HC4851N	296-15741-5-ND	8-Channel Analog Mux/Demux	16-Dip	.64	.48	.36
SN74HC4851PWR	296-16983-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.64	.48	.36
SN74HC4851PWR	296-16983-2-ND	8-Channel Analog Mux/Demux	16-TSSOP		426.00/2,000	
SN74HC4851QDRQ1	296-17266-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.75	.57	.43
SN74HC4851QDRQ1	296-17266-2-ND	8-Channel Analog Mux/Demux	16-SOIC		610.00/2,500	
SN74HC4851QPWRQ1	296-19551-1-ND	8-Channel Analog Mux/Demux ***NEW!***	16-TSSOP	.75	.57	.43
SN74HC4851QPWRQ1	296-19551-2-ND	8-Channel Analog Mux/Demux ***NEW!***	16-TSSOP		500.00/2,000	
SN74HC4852DGVR	296-19252-1-ND	Dual 4-1 Channel Analog Mux/Demux	16-TVSOP	.64	.48	.36
SN74HC4852DGVR	296-19252-2-ND	Dual 4-1 Channel Analog Mux/Demux	16-TVSOP		426.00/2,000	
SN74HC4852DR	296-19253-1-ND	Dual 4-1 Channel Analog Mux/Demux	16-SOIC	.64	.48	.36
SN74HC4852DR	296-19253-2-ND	Dual 4-1 Channel Analog Mux/Demux	16-SOIC		520.00/2,500	
SN74HC4852N	296-17301-5-ND	Dual 4-1 Channel Analog Mux/Demux	16-Dip	.64	.48	.36
SN74HC4852PWR	296-19254-1-ND	Dual 4-1 Channel Analog Mux/Demux	16-TSSOP	.64	.48	.36
SN74HC4852PWR	296-19254-2-ND	Dual 4-1 Channel Analog Mux/Demux	16-TSSOP		426.00/2,000	
SN74HC7001D	296-8363-5-ND	Quad AND Gate w/Schmitt-Trigger Input	14-SOIC	1.41	1.18	.94
SN74HC7001N	296-8364-5-ND	Quad AND Gate w/Schmitt-Trigger Input	14-Dip	1.41	1.18	.94
SN74HC7002D	296-8365-5-ND	Quad NOR Gate w/Schmitt-Trigger Input	14-SOIC	2.00	1.60	1.20
SN74HC7002N	296-8366-5-ND	Quad NOR Gate w/Schmitt-Trigger Input	14-Dip	2.00	1.60	1.20
SN74HC7032D	296-8367-5-ND	Quad OR Gate w/Schmitt-Trigger Input	14-SOIC	2.25	1.80	1.40
SN74HC7032N	296-8368-5-ND	Quad OR Gate w/Schmitt-Trigger Input	14-Dip	2.25	1.80	1.40

HCT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
CD74HCT00E	296-2081-5-ND	Quad 2-Input NAND Gate	14-Dip	.64	.48	.36
CD74HCT00M	296-9244-5-ND	Quad 2-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HCT00M96	296-14542-1-ND	Quad 2-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HCT00M96	296-14542-2-ND	Quad 2-Input NAND Gate	14-SOIC		390.00/2,500	
CD74HCT02E	296-2082-5-ND	Quad 2-Input NOR Gate	14-Dip	.64	.48	.36
CD74HCT02M	296-12825-5-ND	Quad 2-Input NOR Gate	14-SOIC	.48	.36	.27
CD74HCT03E	296-2134-5-ND	Quad 2-Input NAND Gate with OD	14-Dip	.53	.42	.32
CD74HCT03M96	296-9245-1-ND	Quad 2-Input NAND Gate with OD	14-SOIC	.46	.37	.26
CD74HCT03M96	296-9245-2-ND	Quad 2-Input NAND Gate with OD	14-SOIC		297.50/2,500	
CD74HCT04E	296-2083-5-ND	Hex Inverter/Buffer	14-Dip	.64	.48	.36
CD74HCT04M	296-9246-5-ND	Hex Inverter/Buffer	14-SOIC	.48	.36	.27
CD74HCT04M96	296-14543-1-ND	Hex Inverter/Buffer	14-SOIC	.48	.36	.27
CD74HCT04M96	296-14543-2-ND	Hex Inverter/Buffer	14-SOIC		390.00/2,500	
CD74HCT04PWR	296-17123-1-ND	Hex Inverter/Buffer	14-TSSOP	.48	.36	.27
CD74HCT04PWR	296-17123-2-ND	Hex Inverter/Buffer	14-TSSOP		320.00/2,000	
CD74HCT08E	296-2084-5-ND	Quad 2-Input AND Gate	14-Dip	.64	.48	.36
CD74HCT08M	296-12828-5-ND	Quad 2-Input AND Gate	14-SOIC	.48	.36	.27
CD74HCT08M96	296-14544-1-ND	Quad 2-Input AND Gate	14-SOIC	.48	.36	.27
CD74HCT08M96	296-14544-2-ND	Quad 2-Input AND Gate	14-SOIC		390.00/2,500	
CD74HCT10E	296-2086-5-ND	Triple 3-Input NAND Gate	14-Dip	.64	.48	.36
CD74HCT10M	296-9247-5-ND	Triple 3-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HCT10M96	296-14545-1-ND	Triple 3-Input NAND Gate	14-SOIC	.48	.36	.27
CD74HCT10M96	296-14545-2-ND	Triple 3-Input NAND Gate	14-SOIC		390.00/2,500	
CD74HCT11E	296-2087-5-ND	Triple 3-Input AND Gate	14-Dip	.53	.42	.32
CD74HCT11M96	296-9249-1-ND	Triple 3-Input AND Gate	14-SOIC	.45	.36	.27
CD74HCT11M96	296-9249-2-ND	Triple 3-Input AND Gate	14-SOIC		305.00/2,500	
CD74HCT14E	296-2093-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.64	.48	.36
CD74HCT14M	296-9253-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.48	.36	.27
CD74HCT14M96	296-14548-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.48	.36	.27
CD74HCT14M96	296-14548-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		390.00/2,500	
CD74HCT21E	296-9262-5-ND	Dual 4-Input AND Gate	14-Dip	.53	.42	.32
CD74HCT30E	296-2111-5-ND	8-Input NAND Gate	14-Dip	.53	.42	.32
CD74HCT30M	296-9267-5-ND	8-Input NAND Gate	14-SOIC	.46	.37	.26
CD74HCT32E	296-2112-5-ND	Quad 2-Input OR Gate	14-Dip	.64	.48	.36
CD74HCT32M	296-12842-5-ND	Quad 2-Input OR Gate	14-SOIC	.48	.36	.27
CD74HCT32M96	296-14555-1-ND	Quad 2-Input OR Gate	14-SOIC	.48	.36	.27
CD74HCT32M96	296-14555-2-ND	Quad 2-Input OR Gate	14-SOIC		390.00/2,500	
CD74HCT73E	296-9297-5-ND	Dual Neg-Edge-Trig. J-K Flip-Flop with Reset	14-Dip	.80	.60	.45
CD74HCT73M	296-9298-5-ND	Dual Neg-Edge-Trig. J-K Flip-Flop with Reset	14-SOP	.80	.60	.45
CD74HCT74E	296-2132-5-ND	Dual D-Type Flip-Flop with Set and Reset	14-Dip	.64	.48	.36
CD74HCT74M	296-9299-5-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset	14-SOIC	.48	.36	.27
CD74HCT74M96	296-14561-1-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset	14-SOIC	.48	.36	.27
CD74HCT74M96	296-14561-2-ND	Dual Pos-Edge-Trig. D-Type Flip-Flop with Set and Reset	14-SOIC		390.00/2,500	
CD74HCT86E	296-2133-5-ND	Quad High Speed 2-Input Exclusive OR Gate	14-Dip	.72	.54	.41
CD74HCT86M	296-8201-5-ND	Quad High Speed 2-Input Exclusive OR Gate	14-SOIC	.64	.48	.36
CD74HCT86M96	296-8201-1-ND	Quad High Speed 2-Input Exclusive OR Gate	14-SOIC	.64	.48	.36
CD74HCT86M96	296-8201-2-ND	Quad High Speed 2-Input Exclusive OR Gate	14-SOIC		520.00/2,500	
CD74HCT109E	296-2085-5-ND	Dual J-K Flip-Flop with Set and Reset	16-Dip	.80	.60	.45
CD74HCT112E	296-9248-5-ND	Dual Neg-Edge-Trig J-K Flip-Flop with Set and Reset	16-Dip	.48	.36	.27
CD74HCT123E	296-2088-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-Dip	.53	.40	.30
CD74HCT123M	296-9250-5-ND	Dual Retriggerable Monostable Multivibrator with Reset	16-SOIC	.48	.36	.27
CD74HCT125E	296-2089-5-ND	Tri-State Quad Buffer	14-Dip	.72	.54	.41
CD74HCT125M96	296-12829-1-ND	Tri-State Quad Buffer	14-SOIC	.64	.48	.36
CD74HCT125M96	296-12829-2-ND	Tri-State Quad Buffer	14-SOIC		520.00/2,500	
CD74HCT126E	296-9251-5-ND	Tri-State Quad Buffer	14-Dip	.53	.40	.30
CD74HCT126M	296-12830-5-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
CD74HCT126M96	296-14546-1-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
CD74HCT126M96	296-14546-2-ND	Tri-State Quad Buffer	14-SOIC		390.00/2,500	
CD74HCT132E	296-2090-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.53	.40	.30
CD74HCT132M96	296-12831-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.48	.36	.27
CD74HCT132M96	296-12831-2-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC		390.00/2,500	
CD74HCT138E	296-2091-5-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-Dip	.72	.54	.41
CD74HCT138M	296-12832-5-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-SOIC	.64	.48	.36
CD74HCT138M96	296-14547-1-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-SOIC	.64	.48	.36
CD74HCT138M96	296-14547-2-ND	3-8 Line Decoder/Demux Inverting/Non-Inverting	16-SOIC		520.00/2,500	
CD74HCT139E	296-2092-5-ND	Dual 2-of-4 Line Decoder/Demux	16-Dip	.72	.54	.41
CD74HCT147E	296-9252-5-ND	10-4 Line Priority Encoder	16-Dip	.60	.45	.34
CD74HCT151M	296-9254-5-ND	8-Input Multiplexer	16-SOIC	.48	.36	.27

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CD74HCT157E	296-2095-5-ND	Quad 2-Input Multiplexer	16-Dip	.72	.54	.41
CD74HCT161E	296-2096-5-ND	Sync. 4-Bit Binary Counter, Async. Reset	16-Dip	.53	.40	.30
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CD74HCT165M	296-9258-5-ND	Asynchronous 8-Bit Parallel-In/Serial-Out Shift Register	16-SOIC	.48	.36	.27
CD74HCT165M96	296-14551-1-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	.48	.36	.27
CD74HCT165M96	296-14551-2-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	390.00/2,500		
CD74HCT166E	296-2099-5-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.53	.40	.30
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CD74HCT174E	296-2100-5-ND	Hex D-Type Flip-Flop with Reset	16-Dip	.53	.40	.30
CD74HCT174M	296-9260-5-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	.48	.36	.27
CD74HCT174M96	296-12836-1-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	.48	.36	.27
CD74HCT174M96	296-12836-2-ND	Hex D-Type Flip-Flop with Reset	16-SOIC	390.00/2,500		
CD74HCT175E	296-2101-5-ND	Quad D-Type Flip-Flop with Reset	16-Dip	.53	.40	.30
CD74HCT175M96	296-12837-1-ND	Quad D-Type Flip-Flop with Reset	16-SOIC	.48	.36	.27
CD74HCT175M96	296-12837-2-ND	Quad D-Type Flip-Flop with Reset	16-SOIC	390.00/2,500		
CD74HCT191M	296-9261-5-ND	Presettable Synchronous 4-Bit Binary Up/Down Counter	16-SOIC	.72	.54	.41
CD74HCT221M96	296-9263-1-ND	Dual Mono Multivibrator with Reset	16-SOIC	.72	.54	.41
CD74HCT221M96	296-9263-2-ND	Dual Mono Multivibrator with Reset	16-SOIC	585.00/2,500		
CD74HCT238M96	296-17124-5-ND	HS CMOS 3-to-8 Line Decoder/Demux Inverter/Noninverting	16-SOIC	.60	.45	.34
CD74HCT240E	296-2103-5-ND	Tri-St. Inverting Octal Buffer Line Driver	20-Dip	.96	.72	.54
CD74HCT240M	296-9264-5-ND	Tri-St. Inverting Octal Buffer Line Driver	20-SOIC	.76	.57	.43
CD74HCT241M96	296-12838-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
CD74HCT241M96	296-12838-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	400.00/2,000		
CD74HCT243E	296-2145-5-ND	Tri-State HS CMOS Logic Quad Bus Transceiver	14-Dip	.96	.80	.64
CD74HCT244E	296-2104-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.96	.72	.54
CD74HCT244M	296-12839-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.76	.57	.43
CD74HCT244M96	296-14552-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.76	.57	.43
CD74HCT244M96	296-14552-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	506.00/2,000		
CD74HCT245E	296-2105-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.96	.72	.54
CD74HCT245M	296-12840-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.76	.57	.43
CD74HCT245M96	296-14553-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.76	.57	.43
CD74HCT245M96	296-14553-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	506.00/2,000		
SN74HCT245NSR	296-15849-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.60	.45	.34
SN74HCT245NSR	296-15849-2-ND	Tri-State Octal Bus Transceiver	20-SOP	400.00/2,000		
CD74HCT251E	296-2106-5-ND	Tri-State 8-Input Multiplexer	16-Dip	.66	.50	.38
CD74HCT253E	296-2107-5-ND	Tri-State Dual 4-Input Multiplexer	16-Dip	.60	.45	.34
CD74HCT253M	296-9265-5-ND	Tri-State Dual 4-Input Multiplexer	16-SOIC	.60	.45	.34
CD74HCT257E	296-2108-5-ND	Tri-St. Quad 2-Input Mux, Non-Invert Out	16-Dip	.96	.72	.54
CD74HCT258E	296-2146-5-ND	Tri-State Inverting High Speed CMOS Logic Quad 2-Input Multiplexer	16-Dip	.52	.39	.30
CD74HCT259E	296-2109-5-ND	8-Bit Addressable Latch	16-Dip	.62	.47	.35
CD74HCT273E	296-2110-5-ND	Octal D-Type Flip-Flop with Reset	20-Dip	.96	.72	.54
CD74HCT273M	296-12841-5-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.76	.57	.43
CD74HCT273M96	296-14554-1-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.76	.57	.43
CD74HCT273M96	296-14554-2-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	506.00/2,000		
CD74HCT280E	296-2147-5-ND	High Speed CMOS Logic 9-Bit Odd/Even Parity Generator/Checker	14-Dip	.64	.48	.36
CD74HCT299M	296-9266-5-ND	Tri-State 8-Bit Universal Shift Register	20-SOIC	.72	.54	.41
CD74HCT356E	296-2148-5-ND	Tri-State High Speed CMOS Logic 8-Input Multiplexer/Register	20-Dip	1.32	1.10	.88
CD74HCT365E	296-2149-5-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-Dip	.64	.48	.36
CD74HCT365M96	296-15733-1-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-SOIC	.64	.48	.36
CD74HCT365M96	296-15733-2-ND	Tri-State High Speed CMOS Logic Hex Buffer/Line Driver, Non-Invert	16-SOIC	520.00/2,500		
CD74HCT367E	296-2113-5-ND	Tri-State Hex Buffer/Line Driver	16-Dip	.64	.48	.36
CD74HCT368M	296-9268-5-ND	Tri-State Inverting Hex Buffer/Line Driver	16-SOIC	.64	.48	.36
CD74HCT373E	296-2114-5-ND	Tri-State Octal Transparent D-Type Latch	20-Dip	.96	.72	.54
CD74HCT373M	296-12843-5-ND	Tri-State Octal Transparent D-Type Latch	20-SOIC	.76	.57	.43
CD74HCT374E	296-2115-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.96	.72	.54
CD74HCT374M96	296-9269-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.76	.57	.43
CD74HCT374M96	296-9269-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	506.00/2,000		
CD74HCT377M	296-9427-5-ND	Octal D-Type Flip-Flop w/Clock Enable	20-SOIC	.76	.57	.43
CD74HCT390M	296-9270-5-ND	Dual Decade Ripple Counter	16-SOIC	.52	.39	.30
CD74HCT393E	296-2116-5-ND	Dual 4-Stage Binary Counter	14-Dip	.52	.39	.30
CD74HCT393M	296-9271-5-ND	Dual 4-Stage Binary Counter	14-SOIC	.52	.39	.30
CD74HCT393M96	296-14556-1-ND	Dual 4-Stage Binary Counter	14-SOIC	.52	.39	.30
CD74HCT393M96	296-14556-2-ND	Dual 4-Stage Binary Counter	14-SOIC	422.50/2,500		
CD74HCT540E	296-2126-5-ND	Tri-State Inverting Octal Buffer Line Driver	20-Dip	.96	.72	.54
CD74HCT541E	296-2127-5-ND	Tri-State Octal Buffer Line Driver	20-Dip	.96	.72	.54
CD74HCT541M	296-9288-5-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC	.76	.57	.43
CD74HCT541M96	296-9288-1-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC	.76	.57	.43
CD74HCT541M96	296-9288-2-ND	Tri-State Non-Inverting Octal Buffer Line Driver	20-SOIC	506.00/2,000		
CD74HCT563M	296-9289-5-ND	Tri-St. Octal Transparent Inverting Latch	20-SOIC	.60	.45	.34
CD74HCT564M	296-9290-5-ND	Tri-St. Inverting Octal D-Type Flip-Flop	20-SOIC	1.35	1.13	.90
CD74HCT573E	296-2128-5-ND	Tri-State Octal Transparent Latch	20-Dip	.96	.72	.54
CD74HCT573DBR	296-17125-1-ND	Tri-State Octal Transparent Latch	20-SSOP	.76	.57	.43
CD74HCT573DBR	296-17125-2-ND	Tri-State Octal Transparent Latch	20-SSOP	506.00/2,000		
CD74HCT573M96	296-9291-1-ND	Tri-State Octal Transparent Latch	20-SOIC	.76	.57	.43
CD74HCT573M96	296-9291-2-ND	Tri-State Octal Transparent Latch	20-SOIC	506.00/2,000		
CD74HCT574E	296-2129-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.96	.72	.54
CD74HCT574M96	296-9292-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.76	.57	.43
CD74HCT574M96	296-9292-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	506.00/2,000		
CD74HCT574PWR	296-17126-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.76	.57	.43
CD74HCT574PWR	296-17126-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	506.00/2,000		
CD74HCT597E	296-2130-5-ND	8-Bit Shift Register with Input Storage	16-Dip	.96	.79	.58
CD74HCT597M96	296-12844-1-ND	8-Bit Shift Register with Input Storage	16-SOIC	1.05	.88	.70
CD74HCT597M96	296-12844-2-ND	8-Bit Shift Register with Input Storage	16-SOIC	1137.50/2,500		
CD74HCT646M96	296-9293-1-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC	2.00	1.60	1.20
CD74HCT646M96	296-9293-2-ND	Tri-State Octal D-Type Flip-Flop	24-SOIC	2080.00/2,000		
CD74HCT670M	296-9294-5-ND	4-by-4 Register File	16-SOIC	4.73	3.78	2.94
CD74HCT688E	296-2131-5-ND	8-Bit Magnitude Comparator	20-Dip	.88	.66	.50
CD74HCT688M	296-9295-5-ND	8-Bit Magnitude Comparator	20-SOIC	.80	.60	.45
CD74HCT4020M	296-9273-5-ND	14-Stage Binary Counter	16-SOIC	.48	.36	.27
CD74HCT4024M	296-9274-5-ND	7-Stage Binary Ripple Counter	14-SOIC	.56	.42	.32
CD74HCT4040E	296-2118-5-ND	12-Bit Binary Counter	16-Dip	.70	.53	.40
CD74HCT4040M96	296-14558-1-ND	12-Stage Binary Counter	16-SOIC	.64	.48	.36
CD74HCT4040M96	296-14558-2-ND	12-Stage Binary Counter	16-SOIC	520.00/2,500		
CD74HCT4046AM	296-9275-5-ND	Phase-Locked-Loop with VCO	16-SOIC	.60	.45	.34
CD74HCT4046AM96	296-14559-1-ND	Phase-Locked-Loop with VCO	16-SOIC	.60	.45	.34
CD74HCT4046AM96	296-14559-2-ND	Phase-Locked-Loop with VCO	16-SOIC	487.50/2,500		
CD74HCT4051E	296-2119-5-ND	8-Channel Analog Mux/Demux	16-Dip	.52	.39	.30
CD74HCT4051M	296-9276-5-ND	8-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4051M96	296-14560-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4051M96	296-14560-2-ND	8-Channel Analog Mux/Demux	16-SOIC	337.50/2,500		
CD74HCT4051QM96Q1	296-17264-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.59	.48	.36
CD74HCT4051QM96Q1	296-17264-2-ND	8-Channel Analog Mux/Demux	16-SOIC	397.50/2,500		
CD74HCT4052E	296-2120-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.56	.42	.32
CD74HCT4052M96	296-9277-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.52	.39	.30
CD74HCT4052M96	296-9277-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	422.50/2,500		
CD74HCT4053E	296-2121-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.44	.33
CD74HCT4053M	296-9278-5-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.50	.40	.30
CD74HCT4053PWR	296-9279-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.50	.40	.30
CD74HCT4053PWR	296-9279-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	280.00/2,000		
CD74HCT4060M	296-9280-5-ND	14-Stage Binary Counter with Oscillator	16-SOIC	.68	.51	.39
CD74HCT4066M96	296-9281-1-ND	Quad Bilateral Switch	14-SOIC	.68	.51	.39
CD74HCT4066M96	296-9281-2-ND	Quad Bilateral Switch	14-SOIC	552.50/2,500		
CD74HCT4066E	296-2122-5-ND	Quad Bilateral Switch	14-Dip	.68	.51	.39
CD74HCT4094E	296-2123-5-ND	Tri-State, 8-Stage Shift-and-Store Bus Register	16-Dip	.68	.51	.39
CD74HCT4094M	296-14291-5-ND	Tri-State, 8-Stage Shift-and-Store Bus Register	16-SOIC	.68	.51	.39
CD74HCT4316E	296-2124-5-ND	Quad Analog Switch	16-Dip	.92	.69	.52
CD74HCT4511E	296-9282-5-ND	BCD-to-7 Segment Latch/Decoder/Driver	16-Dip	.76	.57	.43
CD74HCT4514E	296-9283-5-ND	4-to-16 Line Decoder/Demux with Input Latch	24-Dip	2.25	1.88	1.13
CD74HCT4520E	296-9284-5-ND	Dual Binary Up-Counter	16-Dip	.56	.42	.32
CD74HCT4520M	296-9285-5-ND	Dual Binary Up-Counter	16-SOIC	.56	.42	.32
CD74HCT4538E	296-2125-5-ND	Dual Precision Monostable Multivibrator	16-Dip	.72	.54	.41
CD74HCT4538M	296-9286-5-ND	Dual Retrig. Precision Monostable Multivibrator	16-SOIC	.72	.54	.41
CD74HCT7046AM	296-9296-5-ND	PLL with VCO and Lock Detector	16-SOIC	1.85	1.48	1.11
CD74HCT40103M	296-9272-5-ND	8-Stage Sync. Down Counter	16-SOIC	.81	.68	.54
CD74HCT40105E	296-2117-5-ND	4 Bits x 16 Words FIFO Register	16-Dip	.78	.65	.52
SN74HCT00D	296-8377-5-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HCT00DR	296-14860-1-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.26
SN74HCT00DR	296-14860-2-ND	Quad 2-Input NAND Gate	14-SOIC	297.50/2,500		
SN74HCT00N	296-1603-5-ND	Quad 2-Input NAND Gate	14-Dip	.53	.42	.32
SN74HCT00PWR	296-8378-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.46	.37	.26
SN74HCT00PWR	296-8378-2-ND	Quad 2-Input NAND Gate	14-TSSOP	252.00/2,000		
SN74HCT02D	296-8379-5-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.26
SN74HCT02DR	296-14861-1-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.26
SN74HCT02DR	296-14861-2-ND	Quad 2-Input NOR Gate	14-SOIC	297.50/2,500		
SN74HCT02N	296-8380-5-ND	Quad 2-Input NOR Gate	14-Dip	.53	.42	.32
SN74HCT04D	296-1205-5-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74HCT04DR	296-1205-1-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74HCT04DR	296-1205-2-ND	Hex Inverter	14-SOIC	297.50/2,500		
SN74HCT04N	296-1605-5-ND	Hex Inverter	14-Dip	.53	.42	.32
SN74HCT04PWR	296-8382-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74HCT04PWR	296-8382-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		
SN74HCT08D	296-8383-5-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74HCT08DBR	296-8384-1-ND	Quad 2-Input AND Gate	14-SSOP	.46	.37	.26
SN74HCT08DBR	296-8384-2-ND	Quad 2-Input AND Gate	14-SSOP	252.00/2,000		
SN74HCT08DR	296-14862-1-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74HCT08DR	296-14862-2-ND	Quad 2-Input AND Gate	14-SOIC	297.50/2,500		
SN74HCT08N	296-1606-5-ND	Quad 2-Input AND Gate	14-Dip	.53	.42	.32
SN74HCT08PWR	296-8385-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	.26
SN74HCT08PWR	296-8385-2-ND	Quad 2-Input AND Gate	14-TSSOP	252.00/2,000		
SN74HCT14D	296-8391-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74HCT14DBR	296-8392-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.46	.37	.26
SN74HCT14DBR	296-8392-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP	252.00/2,000		
SN74HCT14DGVR	296-8393-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.55	.44	.33
SN74HCT14DGVR	296-8393-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	308.00/2,000		
SN74HCT14DR	296-14864-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74HCT14DR	296-14864-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	297.50/2,500		
SN74HCT14N	296-8394-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.53	.42	.32
SN74HCT14PWR	296-8395-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.46	.37	.26
SN74HCT14PWR	296-8395-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	252.00/2,000		
SN74HCT32D	296-1614-5-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	.26
SN74HCT32DBR	296-8410-1-ND	Quad 2-Input OR Gate	14-SSOP	.46	.37	.26
SN74HCT32DBR	296-8410-2-ND	Quad 2-Input OR Gate	14-SSOP	252.00/2,000		
SN74HCT32DR	296-14868-1-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	.26
SN74HCT32DR	296-14868-2-ND	Quad 2-Input OR Gate	14-SOIC	297.50/2,500		
SN74HCT32N	296-1615-5-ND	Quad 2-Input OR Gate	14-Dip	.53	.42	.32
SN74HCT32PWR	296-8411-1-ND	Quad 2-Input OR Gate	14-TSSOP	.46	.37	.26
SN74HCT32PWR	296-8411-2-ND	Quad 2-Input OR Gate	14-TSSOP	252.00/2,000		
SN74HCT74D	296-1211-5-ND	Dual D-Type F/F with Clear and Preset	14-SOIC	.46	.37	.26
SN74HCT74DR	296-1211-1-ND	Dual D-Type F/F with Clear and Preset	14-SOIC	.46	.37	.26
SN74HCT74DR	296-1211-2-ND	Dual D-Type Flip-Flop with Clear and Preset	14-SOIC	297.50/2,500		
SN74HCT74N	296-1625-5-ND	Dual D-Type Flip-Flop	14-Dip	.53	.42	.32
SN74HCT74PWR	296-8429-1-ND	Dual D-Type Flip-Flop with Clear and Preset	14-TSSOP	.46	.37	.26

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HCT74PWR	296-8429-2-ND	Dual D-Type Flip-Flop with Clear and Preset	14-TSSOP	252.00/2,000		
SN74HCT125D	296-1206-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HCT125DR	296-1206-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.55	.44	.33
SN74HCT125DR	296-1206-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	372.50/2,500		
SN74HCT125N	296-8386-5-ND	Tri-State Quad Bus Buffer Gate	14-Dip	.53	.40	.30
SN74HCT138D	296-8387-5-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.55	.44	.33
SN74HCT138DR	296-14863-1-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	.55	.44	.33
SN74HCT138DR	296-14863-2-ND	3-8 Line Decoder/Demultiplexer	16-SOIC	372.50/2,500		
SN74HCT138N	296-1608-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	.53	.40	.30
SN74HCT138PWR	296-8388-1-ND	3-8 Line Decoder/Demultiplexer	14-TSSOP	.55	.44	.33
SN74HCT138PWR	296-8388-2-ND	3-8 Line Decoder/Demultiplexer	14-TSSOP	308.00/2,000		
SN74HCT139D	296-8389-5-ND	Dual 2-to-4 Line Decoder/Demux	16-SOIC	.55	.44	.33
SN74HCT139N	296-8390-5-ND	Dual 2-to-4 Line Decoder/Demux	16-Dip	.53	.40	.30
SN74HCT139PWR	296-11999-1-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP	.55	.44	.33
SN74HCT139PWR	296-11999-2-ND	Dual 2-to-4 Line Decoder/Demux	16-TSSOP	308.00/2,000		
SN74HCT157D	296-8396-5-ND	Quad 2-to-1 Line Data Selector/Mux	16-SOIC	.56	.42	.32
SN74HCT157N	296-8397-5-ND	Quad 2-to-1 Line Data Selector/Mux	16-Dip	.56	.42	.32
SN74HCT240DW	296-8398-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HCT240DWR	296-14865-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HCT240DWR	296-14865-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	400.00/2,000		
SN74HCT240N	296-8399-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.66	.50	.38
SN74HCT240NSR	296-12899-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.60	.45	.34
SN74HCT240NSR	296-12899-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	400.00/2,000		
SN74HCT240PWR	296-13631-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.60	.45	.34
SN74HCT240PWR	296-13631-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	400.00/2,000		
SN74HCT244DBR	296-8400-1-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.60	.45	.34
SN74HCT244DBR	296-8400-2-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	400.00/2,000		
SN74HCT244DW	296-1207-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HCT244DWR	296-1207-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.60	.45	.34
SN74HCT244DWR	296-1207-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	400.00/2,000		
SN74HCT244N	296-1610-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.66	.50	.38
SN74HCT244NSR	296-8401-1-ND	Tri-State Octal Buffer/Line Driver	20-SOP	.60	.45	.34
SN74HCT244NSR	296-8401-2-ND	Tri-State Octal Buffer/Line Driver	20-SOP	400.00/2,000		
SN74HCT244PWR	296-8402-1-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.60	.45	.34
SN74HCT244PWR	296-8402-2-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	400.00/2,000		
SN74HCT245DBR	296-8403-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.60	.45	.34
SN74HCT245DBR	296-8403-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	400.00/2,000		
SN74HCT245DW	296-1208-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74HCT245DWR	296-1208-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74HCT245DWR	296-1208-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	400.00/2,000		
SN74HCT245N	296-1612-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.66	.50	.38
SN74HCT245PWR	296-8404-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.60	.45	.34
SN74HCT245PWR	296-8404-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	400.00/2,000		
SN74HCT257DR	296-14866-1-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	.56	.42	.32
SN74HCT257DR	296-14866-2-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-SOIC	455.00/2,500		
SN74HCT257N	296-8406-5-ND	Tri-St. Quad 2-1 Line Data Selector/Mux	16-Dip	.62	.47	.35
SN74HCT273DBR	296-8407-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.56	.42	.32
SN74HCT273DBR	296-8407-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	372.00/2,000		
SN74HCT273DW	296-8408-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.56	.42	.32
SN74HCT273DWR	296-14867-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.56	.42	.32
SN74HCT273DWR	296-14867-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	372.00/2,000		
SN74HCT273N	296-1613-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.62	.47	.35
SN74HCT273PWR	296-8409-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.56	.42	.32
SN74HCT273PWR	296-8409-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	372.00/2,000		
SN74HCT373DW	296-8412-5-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
SN74HCT373DWR	296-8412-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.60	.45	.34
SN74HCT373DWR	296-8412-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	400.00/2,000		
SN74HCT373N	296-1616-5-ND	Tri-St. Octal Transparent D-Type Latch	20-Dip	.66	.50	.38
SN74HCT373NSR	296-8413-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	.66	.50	.38
SN74HCT373NSR	296-8413-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOP	438.00/2,000		
SN74HCT373PWR	296-8414-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.60	.45	.34
SN74HCT373PWR	296-8414-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	400.00/2,000		
SN74HCT374DBR	296-8415-1-ND	Tri-State Octal Transp. D-Type Flip-Flop	20-SSOP	.60	.45	.34
SN74HCT374DBR	296-8415-2-ND	Tri-State Octal Transp. D-Type Flip-Flop	20-SSOP	400.00/2,000		
SN74HCT374DW	296-1209-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HCT374DWR	296-1209-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HCT374DWR	296-1209-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	400.00/2,000		
SN74HCT374N	296-1617-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
SN74HCT377DW	296-8416-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-SOIC	.56	.42	.32
SN74HCT377N	296-8417-5-ND	Octal D-Type Flip-Flop with Clock Enable	20-Dip	.62	.47	.35
SN74HCT540DW	296-8418-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HCT540DWR	296-14869-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HCT540DWR	296-14869-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	372.00/2,000		
SN74HCT540N	296-8419-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.56	.42	.32
SN74HCT541DW	296-1618-5-ND	Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HCT541DWR	296-14870-1-ND	Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
SN74HCT541DWR	296-14870-2-ND	Octal Buffer/Line Driver	20-SOIC	372.00/2,000		
SN74HCT541N	296-1619-5-ND	Octal Buffer/Line Driver	20-Dip	.62	.47	.35
SN74HCT573DBR	296-8420-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.60	.45	.34
SN74HCT573DBR	296-8420-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	400.00/2,000		
SN74HCT573DW	296-1210-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.60	.45	.34
SN74HCT573DWR	296-1210-1-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	.60	.45	.34
SN74HCT573DWR	296-1210-2-ND	Tri-State Octal D-Type Transparent Latch	20-SOIC	400.00/2,000		
SN74HCT573N	296-1621-5-ND	Tri-State Octal D-Type Transparent Latch	20-Dip	.66	.50	.38
SN74HCT574DW	296-1622-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HCT574DWR	296-14871-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.45	.34
SN74HCT574DWR	296-14871-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	400.00/2,000		
SN74HCT574N	296-1623-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.66	.50	.38
SN74HCT574PWR	296-8421-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.60	.45	.34
SN74HCT574PWR	296-8421-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	400.00/2,000		
SN74HCT623DW	296-8422-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	5.27	4.22	3.28
SN74HCT645DW	296-8423-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.20	1.00	.80
SN74HCT645N	296-8424-5-ND	Tri-State Octal Bus Transceiver	20-Dip	1.20	1.00	.80
SN74HCT646DW	296-8425-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.26	1.05	.84
SN74HCT646NT	296-8426-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.38	1.15	.92
SN74HCT652DW	296-1624-5-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.50	1.20	.90
SN74HCT652DWR	296-1624-1-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1.50	1.20	.90
SN74HCT652DWR	296-1624-2-ND	Tri-State Octal Bus Transceiver/Register	24-SOIC	1560.00/2,000		
SN74HCT652NT	296-8427-5-ND	Tri-State Octal Bus Transceiver/Register	24-Dip	1.50	1.20	.90

HCU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD74HCU04M	296-9432-5-ND	Hex Inverter/Buffer	14-SOIC	.48	.36	.27
SN74HCU04D	296-9819-5-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74HCU04DR	296-14872-1-ND	Hex Inverter	14-SOIC	.46	.37	.26
SN74HCU04DR	296-14872-2-ND	Hex Inverter	14-SOIC	297.50/2,500		
SN74HCU04N	296-9820-5-ND	Hex Inverter	14-Dip	.53	.42	.32
SN74HCU04PWR	296-9821-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74HCU04PWR	296-9821-2-ND	Hex Inverter	14-TSSOP	252.00/2,000		

HSTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74HSTL16918DGGR	296-9823-1-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch	48-TSSOP	4.50	3.60	2.80
SN74HSTL16918DGGR	296-9823-2-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch	48-TSSOP	5100.00/2,000		
SN74HSTL16919DGGR	296-13219-1-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch with Input Pullup Resistors	48-TSSOP	7.50	6.00	5.07
SN74HSTL16919DGGR	296-13219-2-ND	9-to-18 Bit HSTL-to-LVTTL Memory Address Latch with Input Pullup Resistors	48-TSSOP	9376.00/2,000		
SN74HSTL162822DGGR	296-9822-1-ND	14-to-28 Bit HSTL-to-LVTTL Memory Address Latch	64-TSSOP	8.00	6.40	5.40
SN74HSTL162822DGGR	296-9822-2-ND	14-to-28 Bit HSTL-to-LVTTL Memory Address Latch	64-TSSOP	10000.00/2,000		

LS Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LS00DR	296-14873-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.52	.39	.30
SN74LS00DR	296-14873-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC	422.50/2,500		
SN74LS00N	296-1626-5-ND	Quad 2-Input Positive NAND Gate	14-Dip	.52	.39	.30
SN74LS00NSR	296-3616-2-ND	Quad 2-Input Positive NAND Gate	14-SOP	346.00/2,000		
SN74LS00PSR	296-13220-1-ND	Quad 2-Input Positive NAND Gate	8-SOP	.52	.39	.30
SN74LS00PSR	296-13220-2-ND	Quad 2-Input Positive NAND Gate	8-SOP	346.00/2,000		
SN74LS02DR	296-14874-1-ND	Quad 2-Input Positive NOR Gate	14-SOIC	.52	.39	.30
SN74LS02DR	296-14874-2-ND	Quad 2-Input Positive NOR Gate	14-SOIC	422.50/2,500		
SN74LS02N	296-1627-5-ND	Quad 2-Input NOR Gate	14-Dip	.52	.39	.30
SN74LS02NSR	296-3618-2-ND	Quad 2-Input NOR Gate	14-SOP	346.00/2,000		
SN74LS03N	296-3620-5-ND	Quad 2-Input NAND Gate with OC Output	14-Dip	.52	.39	.30
SN74LS04D	296-1628-5-ND	Hex Inverter	14-SOIC	.52	.39	.30
SN74LS04DR	296-14875-1-ND	Hex Inverter	14-SOIC	.52	.39	.30
SN74LS04DR	296-14875-2-ND	Hex Inverter	14-SOIC	422.50/2,500		
SN74LS04N	296-1629-5-ND	Hex Inverter	14-Dip	.52	.39	.30
SN74LS05D	296-1630-5-ND	Hex Inverter with OC Output	14-SOIC	.52	.39	.30
SN74LS05DBR	296-3622-1-ND	Hex Inverter with OC Output	14-SSOP	.52	.39	.30
SN74LS05DBR	296-3622-2-ND	Hex Inverter with OC Output	14-SSOP	346.00/2,000		
SN74LS05N	296-1631-5-ND	Hex Inverter with OC Output	14-Dip	.52	.39	.30
SN74LS05DR	296-1630-1-ND	Hex Inverter with OC Output	14-SOIC	.52	.39	.30
SN74LS05DR	296-1630-2-ND	Hex Inverter with OC Output	14-SOIC	422.50/2,500		
SN74LS06DR	296-14876-1-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-SOIC	.90	.75	.60
SN74LS06DR	296-14876-2-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-SOIC	975.00/2,500		
SN74LS06N	296-15069-5-ND	Hex Inverter Buffer/Driver with OC High-Voltage Output	14-Dip	.90	.75	.60
SN74LS07D	296-3626-5-ND	Hex Buffer/Driver with HV Output	14-SOP	.90	.75	.60
SN74LS07DBR	296-3627-1-ND	Hex Buffer/Driver with HV Output	14-SSOP	.90	.75	.60
SN74LS07DBR	296-3627-2-ND	Hex Buffer/Driver with HV Output	14-SSOP	798.00/2,000		
SN74LS07DR	296-14877-1-ND	Hex Buffer/Driver with HV Output	14-SOIC	.99	.83	.66
SN74LS07DR	296-14877-2-ND	Hex Buffer/Driver with HV Output	14-SOIC	1072.50/2,500		
SN74LS07N	296-14878-5-ND	Hex Buffer/Driver with HV Output	14-Dip	.90	.75	.60
SN74LS07NSR	296-3628-2-ND	Hex Buffer/Driver with HV Output	14-SOP	798.00/2,000		
SN74LS08D	296-1632-5-ND	Quad 2-Input AND Gate	14-SOIC	.52	.39	.30
SN74LS08DR	296-14879-1-ND	Quad 2-Input AND Gate	14-SOIC	.52	.39	.30
SN74LS08DR	296-14879-2-ND	Quad 2-Input AND Gate	14-SOIC	422.50/2,500		
SN74LS08N	296-1633-5-ND	Quad 2-Input AND Gate	14-Dip	.52	.39	.30
SN74LS09DR	296-14880-1-ND	Quad 2-Input AND Gate with OC Output	14-SOIC	.52	.39	.30
SN74LS09DR	296-14880-2-ND	Quad 2-Input AND Gate with OC Output	14-SOIC	422.50/2,500		
SN74LS10N	296-1634-5-ND	Triple 3-Input NAND Gate	14-Dip	.52	.39	.30
SN74LS14D	296-1212-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.55	.44	.33
SN74LS14DR	296-1212-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.55	.44	.33
SN74LS14DR	296-1212-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC	372.50/2,500		
SN74LS14N	296-1643-5-ND	Hex Schmitt-Trigger Inverter	14-Dip	.53	.40	.30
SN74LS20N	296-3670-5-ND	Dual 4-Input NAND Gate	14-Dip	.48	.36	.27
SN74LS21N	296-3672-5-ND	Dual 4-Input AND Gate	14-Dip	.48	.36	.27
SN74LS27N	296-14890-5-ND	Triple 3-Input NOR Gate	14-Dip	.88	.66	.50
SN74LS30N	296-3693-5-ND	8-Input NAND Gate	14-Dip	.48	.36	.27
SN74LS32DR	296-14891-1-ND	Quad 2-Input OR Gate	14-SOIC	.48	.36	.27
SN74LS32DR	296-14891-2-ND	Quad 2-Input OR Gate	14-SOIC	390.00/2,500		
SN74LS32N	296-1658-5-ND	Quad 2-Input OR Gate	14-Dip	.48	.36	.27
SN74LS33DR	296-14892-1-ND	Quad 2-Input NOR Buffer w/OC Output	14-SOIC	1.20	1.00	.80
SN74LS33DR	296-14892-2-ND	Quad 2-Input NOR Buffer w/OC Output	14-SOIC	1300.00/2,500		
SN74LS38N	296-1664-5-ND	Quad 2-Input NAND Buffer	14-Dip	.64	.48	.36
SN74LS47N	296-3712-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	1.35	1.13	.90
SN74LS47NSR	296-13223-1-ND	BCD to 7-Segment Decoder/Driver	16-SOP	1.35	1.13	.90
SN74LS47NSR	296-13223-2-ND	BCD to 7-Segment Decoder/Driver	16-SOP	1198.00/2,000		
SN74LS74ADR	296-14899-1-ND	Dual D-Type Flip-Flop	14-SOIC	.52	.39	.30
SN74LS74ADR	296-14899-2-ND	Dual D-Type Flip-Flop	14-SOIC	422.50/2,500		
SN74LS74AN	296-1668-5-ND	Dual D-Type Flip-Flop	14-Dip	.52	.39	.30
SN74LS85N	296-14900-5-ND	4-Bit Magnitude Comparator	16-Dip	.92	.69	.52
SN74LS86ADR	296-14901-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.48	.36	.27
SN74LS86ADR	296-14901-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	390.00/2,500		
SN74LS86AN	296-1669-5-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.48	.36	.27
SN74LS92D	296-3747-5-ND	Divide-by-Twelve Counter	14-SOIC	1.58	1.26	.95
SN74LS92NSR	296-13225-1-ND	Divide-by-Twelve Counter	14-SOP	1.58	1.26	.95
SN74LS92NSR	296-13225-2-ND	Divide-by-Twelve Counter	14-SOP	1638.00/2,000		
SN74LS93N	296-3750-5-ND	4-Bit Binary Counter	14-Dip	1.58	1.26	.95
SN74LS122N	296-3639-5-ND	Retriggerable Monostable Multivibrator	14-Dip	.75	.63	.50
SN74LS122NSR	296-13221-1-ND	Retriggerable Monostable Multivibrator	14-SOP	.75	.63	.50
SN74LS122NSR	296-13221-2-ND	Retriggerable Monostable Multivibrator	14-SOP	666.00/2,000		
SN74LS123D	296-1635-5-ND	Dual Monostable Multivibrator	16-SOIC	.68	.51	.39
SN74LS123DR	296-14881-1-ND	Dual Monostable Multivibrator	16-SOIC	.68	.51	.39
SN74LS123DR	296-14881-2-ND	Dual Monostable Multivibrator	16-SOIC	552.50/2,500		
SN74LS123N	296-1636-5-ND	Dual Monostable Multivibrator	16-Dip	.68	.51	.39
SN74LS125AD	296-1637-5-ND	Tri-State Quad Bus Buffer	14-SOIC	.68	.51	.39
SN74LS125ADR	296-1637-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.68	.51	.39
SN74LS125ADR	296-1637-2-ND	Tri-State Quad Bus Buffer	14-SOIC	552.50/2,500		
SN74LS125AN	296-1638-5-ND	Tri-State Quad Bus Buffer	14-Dip	.68	.51	.39

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LS126ADR	296-14882-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.68	.51	.39
SN74LS126ADR	296-14882-2-ND	Tri-State Quad Bus Buffer	14-SOIC		552.50/2,500	
SN74LS138DR	296-14883-1-ND	3-8 Line Decoder/Demux	16-SOIC	.68	.51	.39
SN74LS138DR	296-14883-2-ND	3-8 Line Decoder/Demux	16-SOIC		552.50/2,500	
SN74LS138N	296-1639-5-ND	3-8 Line Decoder/Demux	16-Dip	.68	.51	.39
SN74LS139AN	296-1640-5-ND	Dual 2-4 Line Decoder	16-Dip	.68	.51	.39
SN74LS145N	296-1641-5-ND	BCD-To-Decimal Decoder/Driver	16-Dip	.75	.63	.50
SN74LS148N	296-3651-5-ND	8-3 Line Priority Encoder	16-Dip	1.14	.95	.76
SN74LS151N	296-1644-5-ND	8-1 Data Selector/Multiplexer	16-Dip	.88	.66	.50
SN74LS157DR	296-14884-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.68	.51	.39
SN74LS157DR	296-14884-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC		552.50/2,500	
SN74LS157N	296-1645-5-ND	Quad 2-1 Data Selector/Mux	16-Dip	.68	.51	.39
SN74LS157NSR	296-3659-2-ND	Quad 2-1 Data Selector/Mux	16-SOP		452.00/2,000	
SN74LS161AN	296-1646-5-ND	4-Bit Synchronous Binary Counter	16-Dip	.76	.57	.43
SN74LS161ANSR	296-3660-2-ND	4-Bit Synchronous Binary Counter	16-SOP		452.00/2,000	
SN74LS164N	296-1647-5-ND	8-Bit Shift Register	14-Dip	.68	.51	.39
SN74LS165AN	296-14885-5-ND	Parallel Load 8-Bit Shift Register	16-Dip	.68	.51	.39
SN74LS175N	296-1648-5-ND	Quad D-Type Flip-Flop	16-Dip	.80	.60	.45
SN74LS191N	296-14886-5-ND	Sync. Up/Down Counter with Down/Up Mode Control	16-Dip	.81	.68	.54
SN74LS193N	296-1649-5-ND	4-Bit Up/Down Counter	16-Dip	.81	.68	.54
SN74LS240DW	296-1650-5-ND	Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
SN74LS240DWR	296-1650-1-ND	Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
SN74LS240DWR	296-1650-2-ND	Octal Buffer/Line Driver	20-SOIC		532.00/2,000	
SN74LS240N	296-1651-5-ND	Octal Buffer/Line Driver	20-Dip	.80	.60	.45
SN74LS241N	296-14887-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.80	.60	.45
SN74LS244DW	296-1213-5-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
SN74LS244DWR	296-1213-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.80	.60	.45
SN74LS244DWR	296-1213-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		532.00/2,000	
SN74LS244N	296-1653-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.80	.60	.45
SN74LS245DW	296-1214-5-ND	Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LS245DWR	296-1214-1-ND	Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LS245DWR	296-1214-2-ND	Octal Bus Transceiver	20-SOIC		532.00/2,000	
SN74LS245N	296-1655-5-ND	Octal Bus Transceiver	20-Dip	.80	.60	.45
SN74LS247D	296-3678-5-ND	BCD to 7-Segment Decoder/Driver	16-SOIC	1.20	1.00	.80
SN74LS247N	296-3679-5-ND	BCD to 7-Segment Decoder/Driver	16-Dip	1.20	1.00	.80
SN74LS251N	296-14888-5-ND	Tri-State 8-1 Data Selector/Mux	16-Dip	.84	.63	.48
SN74LS257BN	296-1656-5-ND	Quad 2-1 Data Selector/Multiplexer	16-Dip	.84	.63	.48
SN74LS259BN	296-14889-5-ND	8-Bit Addressable Latch	16-Dip	.92	.69	.52
SN74LS266N	296-3681-5-ND	Quad 2-Input Exclusive NOR Gate with OC Output	14-Dip	.92	.69	.52
SN74LS273DWR	296-3682-1-ND	Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LS273DWR	296-3682-2-ND	Octal D-Type Flip-Flop	20-SOIC		532.00/2,000	
SN74LS273N	296-1657-5-ND	Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
SN74LS279ANSR	296-13222-1-ND	Quad S-R Latch	16-SOP	.96	.72	.54
SN74LS279ANSR	296-13222-2-ND	Quad S-R Latch	16-SOP		638.00/2,000	
SN74LS368AN	296-3702-5-ND	6-Bit Buffer/Line Driver	16-Dip	.96	.72	.54
SN74LS373DW	296-1659-5-ND	Octal D-Type Latch	20-SOIC	.80	.60	.45
SN74LS373DWR	296-14893-1-ND	Octal D-Type Latch	20-SOIC	.80	.60	.45
SN74LS373DWR	296-14893-2-ND	Octal D-Type Latch	20-SOIC		532.00/2,000	
SN74LS373N	296-1660-5-ND	Octal D-Type Latch	20-Dip	.80	.60	.45
SN74LS374DW	296-1661-5-ND	Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LS374DWR	296-14894-1-ND	Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LS374DWR	296-14894-2-ND	Octal D-Type Flip-Flop	20-SOIC		532.00/2,000	
SN74LS374N	296-1662-5-ND	Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
SN74LS377N	296-1663-5-ND	Octal D-Type Flip-Flop	20-Dip	1.11	.93	.74
SN74LS393N	296-1665-5-ND	Dual 4-Bit Binary Counter	14-Dip	.90	.75	.60
SN74LS399N	296-14895-5-ND	Quad 2-Input Mux with Storage	16-Dip	1.35	1.08	.81
SN74LS423N	296-3707-5-ND	Dual Retrig. Mono Multivibrator	16-Dip	1.45	1.16	.87
SN74LS541DWR	296-3716-1-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.75	.63	.50
SN74LS541DWR	296-3716-2-ND	Tri-State Octal Buffer/Line Driver	20-SOIC		666.00/2,000	
SN74LS541N	296-1666-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	.75	.63	.50
SN74LS595DR	296-14896-1-ND	8-Bit Shift Register with Output Latch	16-SOIC	6.60	5.28	4.46
SN74LS595DR	296-14896-2-ND	8-Bit Shift Register with Output Latch	16-SOIC		10230.00/2,500	
SN74LS595N	296-15070-5-ND	8-Bit Shift Register with Output Latch	16-Dip	6.60	5.28	4.46
SN74LS640N	296-14897-5-ND	Octal Bus Transceiver	20-Dip	1.29	1.08	.86
SN74LS645-1NSR	296-13224-1-ND	Tri-State Octal Bus Transceiver	20-SOP	2.38	1.90	1.43
SN74LS645-1NSR	296-13224-2-ND	Tri-State Octal Bus Transceiver	20-SOP		2470.00/2,000	
SN74LS682N	296-14898-5-ND	8-Bit Magnitude/Identity Comparator	20-Dip	1.58	1.26	.95
SN74LS688N	296-1667-5-ND	8-Bit Magnitude Comparator	20-Dip	1.75	1.40	1.05

LV Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LV00AD	296-1670-5-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.49	.40	.27
SN74LV00ADR	296-1670-1-ND	Quad 2-Input Positive NAND Gate	14-SOIC	.46	.37	.26
SN74LV00ADR	296-1670-2-ND	Quad 2-Input Positive NAND Gate	14-SOIC		297.50/2,500	
SN74LV00ADBR	296-3751-1-ND	Quad 2-Input Positive NAND Gate	14-SSOP	.46	.37	.26
SN74LV00ADBR	296-3751-2-ND	Quad 2-Input Positive NAND Gate	14-SSOP		252.00/2,000	
SN74LV00ADGVR	296-3752-1-ND	Quad 2-Input Positive NAND Gate	14-TVSOP	.53	.42	.32
SN74LV00ADGVR	296-3752-2-ND	Quad 2-Input Positive NAND Gate	14-TVSOP		294.00/2,000	
SN74LV00ANSR	296-13226-1-ND	Quad 2-Input Positive NAND Gate	14-SOP	.46	.37	.26
SN74LV00ANSR	296-13226-2-ND	Quad 2-Input Positive NAND Gate	14-SOP		252.00/2,000	
SN74LV00APWR	296-3753-1-ND	Quad 2-Input Positive NAND Gate	14-TSSOP	.46	.37	.26
SN74LV00APWR	296-3753-2-ND	Quad 2-Input Positive NAND Gate	14-TSSOP		252.00/2,000	
SN74LV00ARGYR	296-13927-1-ND	Quad 2-Input Positive NAND Gate	14-QFN	.50	.38	.29
SN74LV00ARGYR	296-13927-2-ND	Quad 2-Input Positive NAND Gate	14-QFN		166.00/1,000	
SN74LV02AD	296-1671-5-ND	Quad 2-Input NOR Gate	14-SOIC	.60	.45	.34
SN74LV02ADBR	296-3754-1-ND	Quad 2-Input NOR Gate	14-SSOP	.60	.45	.34
SN74LV02ADBR	296-3754-2-ND	Quad 2-Input NOR Gate	14-SSOP		400.00/2,000	
SN74LV02ADGVR	296-16706-1-ND	Quad 2-Input NOR Gate	14-TVSOP	.60	.45	.34
SN74LV02ADGVR	296-16706-2-ND	Quad 2-Input NOR Gate	14-TVSOP		400.00/2,000	
SN74LV02APWR	296-14902-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.60	.45	.34
SN74LV02APWR	296-14902-2-ND	Quad 2-Input NOR Gate	14-TSSOP		400.00/2,000	
SN74LV02ARGYR	296-13928-1-ND	Quad 2-Input NOR Gate	14-QFN	.50	.38	.29
SN74LV02ARGYR	296-13928-2-ND	Quad 2-Input NOR Gate	14-QFN		166.00/1,000	
SN74LV04AD	296-1672-5-ND	Hex Inverter	14-SOIC	.49	.40	.27
SN74LV04ADBR	296-3755-1-ND	Hex Inverter	14-SSOP	.46	.37	.26
SN74LV04ADBR	296-3755-2-ND	Hex Inverter	14-SSOP		252.00/2,000	
SN74LV04ADGVR	296-3756-1-ND	Hex Inverter	14-TVSOP	.53	.42	.32
SN74LV04ADGVR	296-3756-2-ND	Hex Inverter	14-TVSOP		294.00/2,000	
SN74LV04APWR	296-3757-1-ND	Hex Inverter	14-TSSOP	.46	.37	.26
SN74LV04APWR	296-3757-2-ND	Hex Inverter	14-TSSOP		252.00/2,000	
SN74LV04ARGYR	296-13929-1-ND	Hex Inverter	14-QFN	.50	.38	.29
SN74LV04ARGYR	296-13929-2-ND	Hex Inverter	14-QFN		166.00/1,000	
SN74LV05ADGVR	296-14313-1-ND	Hex Inverter with OD Output	14-TVSOP	.60	.45	.34
SN74LV05ADGVR	296-14313-2-ND	Hex Inverter with OD Output	14-TVSOP		400.00/2,000	
SN74LV05ADR	296-3758-1-ND	Hex Inverter with OD Output	14-SOIC	.60	.45	.34
SN74LV05ADR	296-3758-2-ND	Hex Inverter with OD Output	14-SOIC		487.50/2,500	
SN74LV05APWR	296-3759-1-ND	Hex Inverter with OD Output	14-TSSOP	.60	.45	.34
SN74LV05APWR	296-3759-2-ND	Hex Inverter with OD Output	14-TSSOP		400.00/2,000	
SN74LV06ADBR	296-3760-1-ND	Hex Inverter Buffer/Driver with OD Out	14-SSOP	.60	.45	.34
SN74LV06ADBR	296-3760-2-ND	Hex Inverter Buffer/Driver with OD Out	14-SSOP		400.00/2,000	
SN74LV06ADGVR	296-3761-1-ND	Hex Inverter Buffer/Driver with OD Out	14-TVSOP	.60	.45	.34
SN74LV06ADGVR	296-3761-2-ND	Hex Inverter Buffer/Driver with OD Out	14-TVSOP		400.00/2,000	
SN74LV06ADR	296-3762-1-ND	Hex Inverter Buffer/Driver with OD Out	14-SOIC	.60	.45	.34
SN74LV06ADR	296-3762-2-ND	Hex Inverter Buffer/Driver with OD Out	14-SOIC		487.50/2,500	
SN74LV06APWR	296-3763-1-ND	Hex Inverter Buffer/Driver with OD Out	14-TSSOP	.60	.45	.34
SN74LV06APWR	296-3763-2-ND	Hex Inverter Buffer/Driver with OD Out	14-TSSOP		400.00/2,000	
SN74LV07AD	296-3764-5-ND	Hex Buffer/Driver with OD Out	14-SOIC	.60	.45	.34
SN74LV07ADR	296-3764-1-ND	Hex Buffer/Driver with OD Out	14-SOIC	.60	.45	.34
SN74LV07ADR	296-3764-2-ND	Hex Buffer/Driver with OD Out	14-SOIC		487.50/2,500	
SN74LV07ADBR	296-3765-1-ND	Hex Buffer/Driver with OD Out	14-SSOP	.60	.45	.34
SN74LV07ADBR	296-3765-2-ND	Hex Buffer/Driver with OD Out	14-SSOP		400.00/2,000	
SN74LV07ADGVR	296-3766-1-ND	Hex Buffer/Driver with OD Out	14-TVSOP	.60	.45	.34
SN74LV07ADGVR	296-3766-2-ND	Hex Buffer/Driver with OD Out	14-TVSOP		400.00/2,000	
SN74LV07APWR	296-3767-1-ND	Hex Buffer/Driver with OD Out	14-TSSOP	.60	.45	.34
SN74LV07APWR	296-3767-2-ND	Hex Buffer/Driver with OD Out	14-TSSOP		400.00/2,000	
SN74LV08AD	296-1673-5-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.26
SN74LV08ADBR	296-3768-1-ND	Quad 2-Input AND Gate	14-SSOP	.46	.37	.26
SN74LV08ADBR	296-3768-2-ND	Quad 2-Input AND Gate	14-SSOP		252.00/2,000	
SN74LV08ADGVR	296-3769-1-ND	Quad 2-Input AND Gate	14-TVSOP	.53	.42	.32
SN74LV08ADGVR	296-3769-2-ND	Quad 2-Input AND Gate	14-TVSOP		294.00/2,000	
SN74LV08AMPWREP	296-19441-1-ND	Quad 2-Input AND Gate ***NEW!***	14-TSSOP	.60	.45	.34
SN74LV08AMPWREP	296-19441-2-ND	Quad 2-Input AND Gate ***NEW!***	14-TSSOP		400.00/2,000	
SN74LV08APWR	296-3770-1-ND	Quad 2-Input AND Gate	14-TSSOP	.46	.37	.26
SN74LV08APWR	296-3770-2-ND	Quad 2-Input AND Gate	14-TSSOP		270.00/2,000	
SN74LV08ARGYR	296-13930-1-ND	Quad 2-Input AND Gate	14-QFN	.50	.38	.29
SN74LV08ARGYR	296-13930-2-ND	Quad 2-Input AND Gate	14-QFN		166.00/1,000	
SN74LV10AD	296-3771-5-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
SN74LV10ADR	296-3771-1-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.26
SN74LV10ADR	296-3771-2-ND	Triple 3-Input NAND Gate	14-SOIC		297.50/2,500	
SN74LV10ADBR	296-3772-1-ND	Triple 3-Input NAND Gate	14-SSOP	.46	.37	.26
SN74LV10ADBR	296-3772-2-ND	Triple 3-Input NAND Gate	14-SSOP		252.00/2,000	
SN74LV10ADGVR	296-3773-1-ND	Triple 3-Input NAND Gate	14-TVSOP	.50	.38	.29
SN74LV10ADGVR	296-3773-2-ND	Triple 3-Input NAND Gate	14-TVSOP		332.00/2,000	
SN74LV10APWR	296-9824-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.46	.37	.26
SN74LV10APWR	296-9824-2-ND	Triple 3-Input NAND Gate	14-TSSOP		252.00/2,000	
SN74LV11ADBR	296-9825-1-ND	Triple 3-Input AND Gate	14-SSOP	.60	.45	.34
SN74LV11ADBR	296-9825-2-ND	Triple 3-Input AND Gate	14-SSOP		400.00/2,000	
SN74LV11ADGVR	296-9826-1-ND	Triple 3-Input AND Gate	14-TVSOP	.60	.45	.34
SN74LV11ADGVR	296-9826-2-ND	Triple 3-Input AND Gate	14-TVSOP		400.00/2,000	
SN74LV11ADR	296-9827-1-ND	Triple 3-Input AND Gate	14-SOIC	.60	.45	.34
SN74LV11ADR	296-9827-2-ND	Triple 3-Input AND Gate	14-SOIC		487.50/2,500	
SN74LV11APWR	296-9828-1-ND	Triple 3-Input AND Gate	14-TSSOP	.60	.45	.34
SN74LV11APWR	296-9828-2-ND	Triple 3-Input AND Gate	14-TSSOP		400.00/2,000	
SN74LV14AD	296-1678-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74LV14ADR	296-1678-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.46	.37	.26
SN74LV14ADR	296-1678-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		297.50/2,500	
SN74LV14ADBR	296-3783-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.46	.37	.26
SN74LV14ADBR	296-3783-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP		252.00/2,000	
SN74LV14ADGVR	296-3784-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.53	.42	.32
SN74LV14ADGVR	296-3784-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP		294.00/2,000	
SN74LV14AMPWREP	296-19442-1-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-TSSOP	.60	.45	.34
SN74LV14AMPWREP	296-19442-2-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-TSSOP		400.00/2,000	
SN74LV14APWR	296-3785-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.46	.37	.26
SN74LV14APWR	296-3785-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP		270.00/2,000	
SN74LV14ARGYR	296-13935-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.50	.38	.29
SN74LV14ARGYR	296-13935-2-ND	Hex Schmitt-Trigger Inverter	14-QFN		166.00/1,000	
SN74LV20AD	296-3794-5-ND	Dual 4-Input NAND Gate	14-SOIC	.80	.60	.45
SN74LV20ADR	296-3794-1-ND	Dual 4-Input NAND Gate	14-SOIC	.80	.60	.45
SN74LV20ADR	296-3794-2-ND	Dual 4-Input NAND Gate	14-SOIC		650.00/2,500	
SN74LV20ADBR	296-9838-1-ND	Dual 4-Input NAND Gate	14-SSOP	.80	.60	.45
SN74LV20ADBR	296-9838-2-ND	Dual 4-Input NAND Gate	14-SSOP		532.00/2,000	
SN74LV20ADGVR	296-3795-1-ND	Dual 4-Input NAND Gate	14-TVSOP	.80	.60	.45
SN74LV20ADGVR	296-3795-2-ND	Dual 4-Input NAND Gate	14-TVSOP		532.00/2,000	
SN74LV20APWR	296-3796-1-ND	Dual 4-Input NAND Gate	14-TSSOP	.80	.60	.45
SN74LV20APWR	296-3796-2-ND	Dual 4-Input NAND Gate	14-TSSOP		532.00/2,000	
SN74LV21ADR	296-9839-1-ND	Dual 4-Input AND Gate	14-SOIC	.80	.60	.45
SN74LV21ADR	296-9839-2-ND	Dual 4-Input AND Gate	14-SOIC		650.00/2,500	
SN74LV21ADBR	296-3798-1-ND	Dual 4-Input AND Gate	14-SSOP	.80	.60	.45
SN74LV21ADBR	296-3798-2-ND	Dual 4-Input AND Gate	14-SSOP		532.00/2,000	
SN74LV21ADGVR	296-3799-1-ND	Dual 4-Input AND Gate	14-TVSOP	.80	.60	.45
SN74LV21ADGVR	296-3799-2-ND	Dual 4-Input AND Gate	14-TVSOP		532.00/2,000	
SN74LV21APWR	296-3800-1-ND	Dual 4-Input AND Gate	14-TSSOP	.80	.60	.45
SN74LV21APWR	296-3800-2-ND	Dual 4-Input AND Gate	14-TSSOP		532.00/2,000	
SN74LV27ADR	296-3813-1-ND	Triple 3-Input NOR Gate	14-SOIC	.60	.45	.34
SN74LV27ADR	296-3813-2-ND	Triple 3-Input NOR Gate	14-SOIC		487.50/2,500	
SN74LV27ADBR	296-3814-1-ND	Triple 3-Input NOR Gate	14-SSOP	.60	.45	.34
SN74LV27ADBR	296-3814-2-ND	Triple 3-Input NOR Gate	14-SSOP		400.00/2,000	
SN74LV27ADGVR	296-3815-1-ND	Triple 3-Input NOR Gate	14-TVSOP	.60	.45	.34
SN74LV27ADGVR	296-3815-2-ND	Triple 3-Input NOR Gate	14-TVSOP		400.00/2,000	
SN74LV27APWR	296-3816-1-ND	Triple 3-Input NOR Gate	14-TSSOP	.60	.45	.34
SN74LV27APWR	296-3816-2-ND	Triple 3-Input NOR Gate	14-TSSOP		400.00/2,000	
SN74LV32AD	296-1686-5-ND	Quad 2-Input Positive OR Gate	14-SOIC	.46	.37	.26
SN74LV32ADBR	296-3817-1-ND	Quad 2-Input Positive OR Gate	14-SSOP	.46	.37	.26
SN74LV32ADBR	296-3817-2-ND	Quad 2-Input Positive OR Gate	14-SSOP		252.00/2,000	
SN74LV32ADGVR	296-3818-1-ND	Quad 2-Input Positive OR Gate	14-TVSOP	.53	.42	.32
SN74LV32ADGVR	296-3818-2-ND	Quad 2-Input Positive OR Gate	14-TVSOP		294.00/2,000	
SN74LV32AMPWREP	296-19445-1-ND	Quad 2-Input Positive OR Gate ***NEW!***	14-TSSOP	.60	.45	.34
SN74LV32AMPWREP	296-19445-2-ND	Quad 2-Input Positive OR Gate ***NEW!***	14-TSSOP		400.00/2,000	
SN74LV32ANSR	296-13232-1-ND	Quad 2-Input Positive OR Gate	14-SOP	.46	.37	.26
SN74LV32ANSR	296-13232-2-ND	Quad 2-Input Positive OR Gate	14-SOP		252.00/2,000	
SN74LV32APWR	296-3819-1-ND	Quad 2-Input Positive OR Gate	14-TSSOP	.46	.37	.26

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LV32APWR	296-3819-2-ND	Quad 2-Input Positive OR Gate	14-TSSOP		270.00/2,000	
SN74LV32ARGYR	296-13941-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.60	.45	.34
SN74LV32ARGYR	296-13941-2-ND	Quad 2-Input Positive OR Gate	14-QFN		200.00/1,000	
SN74LV74AD	296-1692-5-ND	Dual D-Type Flip-Flop	14- SOIC	.50	.40	.30
SN74LV74ADBR	296-3844-1-ND	Dual D-Type Flip-Flop	14-SSOP	.50	.40	.30
SN74LV74ADBR	296-3844-2-ND	Dual D-Type Flip-Flop	14-SSOP		280.00/2,000	
SN74LV74ADGVR	296-9842-1-ND	Dual D-Type Flip-Flop	14-TVSOP	.48	.36	.27
SN74LV74ADGVR	296-9842-2-ND	Dual D-Type Flip-Flop	14-TVSOP		320.00/2,000	
SN74LV74AMPWREP	296-19446-1-ND	Dual D-Type Flip-Flop ***NEW!***	14-TSSOP	.80	.60	.45
SN74LV74AMPWREP	296-19446-2-ND	Dual D-Type Flip-Flop ***NEW!***	14-TSSOP		532.00/2,000	
SN74LV74APWR	296-3846-1-ND	Dual D-Type Flip-Flop	14-TSSOP	.50	.40	.30
SN74LV74APWR	296-3846-2-ND	Dual D-Type Flip-Flop	14-TSSOP		280.00/2,000	
SN74LV74ARGYR	296-13953-1-ND	Dual D-Type Flip-Flop	14-QFN	.60	.45	.34
SN74LV74ARGYR	296-13953-2-ND	Dual D-Type Flip-Flop	14-QFN		200.00/1,000	
SN74LV86AD	296-1693-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.50	.40	.30
SN74LV86ADBR	296-14320-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.50	.40	.30
SN74LV86ADBR	296-14320-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP		280.00/2,000	
SN74LV86ADGVR	296-14321-1-ND	Quad 2-Input Exclusive OR Gate	14-TVSOP	.48	.36	.27
SN74LV86ADGVR	296-14321-2-ND	Quad 2-Input Exclusive OR Gate	14-TVSOP		320.00/2,000	
SN74LV86APWR	296-14322-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.50	.40	.30
SN74LV86APWR	296-14322-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP		280.00/2,000	
SN74LV123ADGVR	296-12991-1-ND	Dual Retrig. Monostable Multivibrator	16-TVSOP	.48	.36	.27
SN74LV123ADGVR	296-12991-2-ND	Dual Retrig. Monostable Multivibrator	16-TVSOP		320.00/2,000	
SN74LV123ADR	296-9829-1-ND	Dual Retrig. Monostable Multivibrator	16-SOIC	.48	.36	.27
SN74LV123ADR	296-9829-2-ND	Dual Retrig. Monostable Multivibrator	16-SOIC		390.00/2,500	
SN74LV123APWR	296-3774-1-ND	Dual Retrig. Monostable Multivibrator	16-TSSOP	.48	.36	.27
SN74LV123APWR	296-3774-2-ND	Dual Retrig. Monostable Multivibrator	16-TSSOP		320.00/2,000	
SN74LV123ARGYR	296-13931-1-ND	Dual Retrig. Monostable Multivibrator	16-QFN	.60	.45	.34
SN74LV123ARGYR	296-13931-2-ND	Dual Retrig. Monostable Multivibrator	16-QFN		200.00/1,000	
SN74LV125AD	296-1674-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.50	.40	.30
SN74LV125ADBR	296-14314-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.50	.40	.30
SN74LV125ADBR	296-14314-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		280.00/2,000	
SN74LV125ADGVR	296-3775-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.50	.40	.30
SN74LV125ADGVR	296-3775-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP		280.00/2,000	
SN74LV125APWR	296-3776-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.50	.40	.30
SN74LV125APWR	296-3776-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		280.00/2,000	
SN74LV125ARGYR	296-13932-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.60	.45	.34
SN74LV125ARGYR	296-13932-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN		200.00/1,000	
SN74LV126AD	296-14315-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.50	.40	.30
SN74LV126ADBR	296-15718-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.50	.40	.30
SN74LV126ADBR	296-15718-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		280.00/2,000	
SN74LV126ADGVR	296-14191-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.50	.40	.30
SN74LV126ADGVR	296-14191-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP		280.00/2,000	
SN74LV126ADR	296-14021-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.50	.40	.30
SN74LV126ADR	296-14021-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		337.50/2,500	
SN74LV126APWR	296-12992-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.50	.40	.30
SN74LV126APWR	296-12992-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		280.00/2,000	
SN74LV132AD	296-1675-5-ND	Quad NAND Gate	14-SOIC	.50	.40	.30
SN74LV132ADR	296-1675-1-ND	Quad NAND Gate	14-SOIC	.50	.40	.30
SN74LV132ADR	296-1675-2-ND	Quad NAND Gate	14-SOIC		337.50/2,500	
SN74LV132ADBR	296-3777-1-ND	Quad NAND Gate	14-SSOP	.50	.40	.30
SN74LV132ADBR	296-3777-2-ND	Quad NAND Gate	14-SSOP		280.00/2,000	
SN74LV132ADGVR	296-3778-1-ND	Quad NAND Gate	14-TVSOP	.50	.40	.30
SN74LV132ADGVR	296-3778-2-ND	Quad NAND Gate	14-TVSOP		280.00/2,000	
SN74LV132APWR	296-3779-1-ND	Quad NAND Gate	14-TSSOP	.50	.40	.30
SN74LV132APWR	296-3779-2-ND	Quad NAND Gate	14-TSSOP		280.00/2,000	
SN74LV138AD	296-1676-5-ND	3-8 Decoder/Demultiplexer	16-SOIC	.50	.40	.30
SN74LV138ADR	296-1676-1-ND	3-8 Decoder/Demultiplexer	16-SOIC	.50	.40	.30
SN74LV138ADR	296-1676-2-ND	3-8 Decoder/Demultiplexer	16-SOIC		337.50/2,500	
SN74LV138APWR	296-3780-1-ND	3-8 Decoder/Demultiplexer	16-TSSOP	.50	.40	.30
SN74LV138APWR	296-3780-2-ND	3-8 Decoder/Demultiplexer	16-TSSOP		280.00/2,000	
SN74LV138ARGYR	296-13933-1-ND	3-8 Decoder/Demultiplexer	16-QFN	.60	.45	.34
SN74LV138ARGYR	296-13933-2-ND	3-8 Decoder/Demultiplexer	16-QFN		200.00/1,000	
SN74LV139AD	296-1677-5-ND	Dual 2-4 Decoder/Demultiplexer	16-SOIC	.50	.40	.30
SN74LV139ADBR	296-3781-1-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP	.50	.40	.30
SN74LV139ADBR	296-3781-2-ND	Dual 2-4 Decoder/Demultiplexer	16-SSOP		280.00/2,000	
SN74LV139APWR	296-3782-1-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP	.50	.40	.30
SN74LV139APWR	296-3782-2-ND	Dual 2-4 Decoder/Demultiplexer	16-TSSOP		280.00/2,000	
SN74LV139ARGYR	296-13934-1-ND	Dual 2-4 Decoder/Demultiplexer	16-QFN	.60	.45	.34
SN74LV139ARGYR	296-13934-2-ND	Dual 2-4 Decoder/Demultiplexer	16-QFN		200.00/1,000	
SN74LV157ADBR	296-9830-1-ND	Quad 2-1 Line Data Selector/Mux	16-SSOP	.88	.66	.50
SN74LV157ADBR	296-9830-2-ND	Quad 2-1 Line Data Selector/Mux	16-SSOP		586.00/2,000	
SN74LV157ADGVR	296-9831-1-ND	Quad 2-1 Line Data Selector/Mux	16-TVSOP	.88	.66	.50
SN74LV157ADGVR	296-9831-2-ND	Quad 2-1 Line Data Selector/Mux	16-TVSOP		586.00/2,000	
SN74LV157ADR	296-9832-1-ND	Quad 2-1 Line Data Selector/Mux	16-SOIC	.88	.66	.50
SN74LV157ADR	296-9832-2-ND	Quad 2-1 Line Data Selector/Mux	16-SOIC		715.00/2,500	
SN74LV157APWR	296-9833-1-ND	Quad 2-1 Line Data Selector/Mux	16-TSSOP	.88	.66	.50
SN74LV157APWR	296-9833-2-ND	Quad 2-1 Line Data Selector/Mux	16-TSSOP		586.00/2,000	
SN74LV161ADBR	296-12342-1-ND	4-Bit Sync. Binary Counter	16-SSOP	.88	.66	.50
SN74LV161ADBR	296-12342-2-ND	4-Bit Sync. Binary Counter	16-SSOP		586.00/2,000	
SN74LV161ADGVR	296-12343-1-ND	4-Bit Sync. Binary Counter	16-TVSOP	.88	.66	.50
SN74LV161ADGVR	296-12343-2-ND	4-Bit Sync. Binary Counter	16-TVSOP		586.00/2,000	
SN74LV161ADR	296-13227-1-ND	4-Bit Sync. Binary Counter	16-SOIC	.88	.66	.50
SN74LV161ADR	296-13227-2-ND	4-Bit Sync. Binary Counter	16-SOIC		715.00/2,500	
SN74LV161APWR	296-12344-1-ND	4-Bit Sync. Binary Counter	16-TSSOP	.88	.66	.50
SN74LV161APWR	296-12344-2-ND	4-Bit Sync. Binary Counter	16-TSSOP		586.00/2,000	
SN74LV163ADBR	296-12345-1-ND	4-Bit Sync. Binary Counter	16-SSOP	.88	.66	.50
SN74LV163ADBR	296-12345-2-ND	4-Bit Sync. Binary Counter	16-SSOP		586.00/2,000	
SN74LV163ADGVR	296-12346-1-ND	4-Bit Sync. Binary Counter	16-TVSOP	.88	.66	.50
SN74LV163ADGVR	296-12346-2-ND	4-Bit Sync. Binary Counter	16-TVSOP		586.00/2,000	
SN74LV163ADR	296-11666-1-ND	4-Bit Sync. Binary Counter	16-SOIC	.88	.66	.50
SN74LV163ADR	296-11666-2-ND	4-Bit Sync. Binary Counter	16-SOIC		715.00/2,500	
SN74LV163APWR	296-12347-1-ND	4-Bit Sync. Binary Counter	16-TSSOP	.88	.66	.50
SN74LV163APWR	296-12347-2-ND	4-Bit Sync. Binary Counter	16-TSSOP		586.00/2,000	
SN74LV163ARGYR	296-13936-1-ND	4-Bit Sync. Binary Counter	16-QFN	.78	.65	.52
SN74LV163ARGYR	296-13936-2-ND	4-Bit Sync. Binary Counter	16-QFN		346.00/1,000	
SN74LV164AD	296-1680-5-ND	8-Bit Parallel-Out Serial Shift Register	14-SOIC	.88	.66	.50
SN74LV164ADBR	296-3787-1-ND	8-Bit Parallel-Out Serial Shift Register	14-SSOP	.88	.66	.50
SN74LV164ADBR	296-3787-2-ND	8-Bit Parallel-Out Serial Shift Register	14-SSOP		586.00/2,000	
SN74LV164ANSR	296-13228-1-ND	8-Bit Parallel-Out Serial Shift Register	14-SOP	.88	.66	.50
SN74LV164ANSR	296-13228-2-ND	8-Bit Parallel-Out Serial Shift Register	14-SOP		586.00/2,000	
SN74LV164APWR	296-3788-1-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP	.88	.66	.50
SN74LV164APWR	296-3788-2-ND	8-Bit Parallel-Out Serial Shift Register	14-TSSOP		586.00/2,000	
SN74LV164ARGYR	296-18207-1-ND	8-Bit Parallel-Out Serial Shift Register	14-QFN	.78	.65	.52
SN74LV164ARGYR	296-18207-2-ND	8-Bit Parallel-Out Serial Shift Register	14-QFN		346.00/1,000	
SN74LV165AD	296-1681-5-ND	8-Bit Parallel Load Shift Register	16-SOIC	.88	.66	.50
SN74LV165ADGVR	296-14316-1-ND	8-Bit Parallel Load Shift Register	16-TVSOP	.88	.66	.50
SN74LV165ADGVR	296-14316-2-ND	8-Bit Parallel Load Shift Register	16-TVSOP		586.00/2,000	
SN74LV165ADR	296-1681-1-ND	8-Bit Parallel Load Shift Register	16-SOIC	.88	.66	.50
SN74LV165ADR	296-1681-2-ND	8-Bit Parallel Load Shift Register	16-SOIC		715.00/2,500	
SN74LV165AMPWREP	296-19443-1-ND	8-Bit Parallel Load Shift Register ***NEW!***	16-TSSOP	1.32	1.10	.88
SN74LV165AMPWREP	296-19443-2-ND	8-Bit Parallel Load Shift Register ***NEW!***	16-TSSOP		1170.00/2,000	
SN74LV165APWR	296-3790-1-ND	8-Bit Parallel Load Shift Register	16-TSSOP	.88	.66	.50
SN74LV165APWR	296-3790-2-ND	8-Bit Parallel Load Shift Register	16-TSSOP		586.00/2,000	
SN74LV165ARGYR	296-13937-1-ND	8-Bit Parallel Load Shift Register	16-QFN	.78	.65	.52
SN74LV165ARGYR	296-13937-2-ND	8-Bit Parallel Load Shift Register	16-QFN		346.00/1,000	
SN74LV166ADBR	296-9834-1-ND	8-Bit Parallel Load Shift Register	16-SSOP	.90	.75	.60
SN74LV166ADBR	296-9834-2-ND	8-Bit Parallel Load Shift Register	16-SSOP		798.00/2,000	
SN74LV166ADGVR	296-9835-1-ND	8-Bit Parallel Load Shift Register	16-TVSOP	.90	.75	.60
SN74LV166ADGVR	296-9835-2-ND	8-Bit Parallel Load Shift Register	16-TVSOP		798.00/2,000	
SN74LV166ADR	296-9836-1-ND	8-Bit Parallel Load Shift Register	16-SOIC	.90	.75	.60
SN74LV166ADR	296-9836-2-ND	8-Bit Parallel Load Shift Register	16-SOIC		975.00/2,500	
SN74LV166APWR	296-9837-1-ND	8-Bit Parallel Load Shift Register	16-TSSOP	.90	.75	.60
SN74LV166APWR	296-9837-2-ND	8-Bit Parallel Load Shift Register	16-TSSOP		798.00/2,000	
SN74LV174ADR	296-14903-1-ND	Hex D-Type Flip-Flop with Clear	16-SOIC	.64	.48	.36
SN74LV174ADR	296-14903-2-ND	Hex D-Type Flip-Flop with Clear	16-SOIC		520.00/2,500	
SN74LV174APWR	296-3792-1-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	.64	.48	.36
SN74LV174APWR	296-3792-2-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP		426.00/2,000	
SN74LV175AD	296-1682-5-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.88	.66	.50
SN74LV175ANSR	296-13229-1-ND	Quad D-Type Flip-Flop with Clear	16-SOP	.88	.66	.50
SN74LV175ANSR	296-13229-2-ND	Quad D-Type Flip-Flop with Clear	16-SOP		586.00/2,000	
SN74LV175APWR	296-3793-1-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP	.88	.66	.50
SN74LV175APWR	296-3793-2-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP		586.00/2,000	
SN74LV221AD	296-3801-5-ND	Dual Monostable Multivibrator	16-SOIC	1.20	1.00	.80
SN74LV221ADR	296-3801-1-ND	Dual Monostable Multivibrator	16-SOIC	1.20	1.00	.80
SN74LV221ADR	296-3801-2-ND	Dual Monostable Multivibrator	16-SOIC		1300.00/2,500	
SN74LV221ANSR	296-12473-1-ND	Dual Monostable Multivibrator	16-SOP	1.20	1.00	.80
SN74LV221ANSR	296-12473-2-ND	Dual Monostable Multivibrator	16-SOP		1064.00/2,000	
SN74LV240ADBR	296-3802-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.64	.48	.36
SN74LV240ADBR	296-3802-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		426.00/2,000	
SN74LV240ADGVR	296-3803-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.70	.53	.40
SN74LV240ADGVR	296-3803-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		466.00/2,000	
SN74LV240ADW	296-1683-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.64	.48	.36
SN74LV240APWR	296-12348-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.64	.48	.36
SN74LV240APWR	296-12348-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		426.00/2,000	
SN74LV244ADBR	296-3804-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.64	.48	.36
SN74LV244ADBR	296-3804-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		426.00/2,000	
SN74LV244ADGVR	296-3805-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.80	.60	.45
SN74LV244ADGVR	296-3805-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		532.00/2,000	
SN74LV244ADW	296-1684-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.64	.48	.36
SN74LV244AMDWREP	296-19444-1-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC	.96	.80	.64
SN74LV244AMDWREP	296-19444-2-ND	Tri-State Octal Buffer/Driver ***NEW!***	20-SOIC		852.00/2,000	
SN74LV244ANSR	296-13230-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.64	.48	.36
SN74LV244ANSR	296-13230-2-ND	Tri-State Octal Buffer/Driver	20-SOP		426.00/2,000	
SN74LV244APWR	296-3806-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.64	.48	.36
SN74LV244APWR	296-3806-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		426.00/2,000	
SN74LV244ARGYR	296-13938-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.80	.60	.45
SN74LV244ARGYR	296-13938-2-ND	Tri-State Octal Buffer/Driver	20-QFN		266.00/1,000	
SN74LV244ATDGVR	296-19256-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.77	.58	.44
SN74LV244ATDGVR	296-19256-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		510.00/2,000	
SN74LV244ATDWR	296-19257-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.64	.48	.36
SN74LV244ATDWR	296-19257-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		426.00/2,000	
SN74LV244ATPWR	296-19258-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.64	.48	.36
SN74LV244ATPWR	296-19258-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		426.00/2,000	
SN74LV244ATRGYR	296-19259-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.70	.53	.40
SN74LV244ATRGYR	296-19259-2-ND	Tri-State Octal Buffer/Driver	20-QFN		234.00/1,000	
SN74LV245ADBR	296-3807-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.64	.48	.36
SN74LV245ADBR	296-3807-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		426.00/2,000	
SN74LV245ADGVR	296-3808-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.80	.60	.45
SN74LV245ADGVR	296-3808-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP		532.00/2,000	
SN74LV245ADW	296-1685-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.64	.48	.36
SN74LV245AGQNR	296-12091-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.75	.63	.50
SN74LV245AGQNR	296-12091-2-ND	Tri-State Octal Bus Transceiver	20-BGA		333.00/1,000	
SN74LV245ANSR	296-13231-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.64	.48	.36
SN74LV245ANSR	296-13231-2-ND	Tri-State Octal Bus Transceiver	20-SOP		426.00/2,000	
SN74LV245APWR	296-3809-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.64	.48	.36
SN74LV245APWR	296-3809-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP		426.00/2,000	
SN74LV245ARGYR	296-13939-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.80	.60	.45
SN74LV245ARGYR	296-13939-2-ND	Tri-State Octal Bus Transceiver	20-QFN		266.00/1,000	
SN74LV245ATDBR	296-17767-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74LV245ATDBR	296-17767-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		532.00/2,000	
SN74LV245ATDGVR	296-17768-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.80	.60	.45
SN74LV245ATDGVR	296-17768-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP		532.00/2,000	
SN74LV245ATDWR	296-17769-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LV245ATDWR	296-17769-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		532.00/2,000	
SN74LV245ATNSR	296-17770-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.80	.60	.45
SN74LV245ATNSR	296-17770-2-ND	Tri-State Octal Bus Transceiver	20-SOP		532.00/2,000	
SN74LV245ATPWR	296-17771-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.80	.60	.45
SN74LV245ATPWR	296-17771-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP		532.00/2,000	
SN74LV245ATRGYR	296-17772-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.80	.60	.45
SN74LV245ATRGYR	296-17772-2-ND	Tri-State Octal Bus Transceiver	20-QFN		266.00/1,000	
SN74LV273ADBR	296-12349-1-ND	Octal D-Type Flip-Flop with Clear	20-SSOP	.96	.72	.54
SN74LV273ADBR	296-12349-2-ND	Octal D-Type Flip-Flop with Clear	20-SSOP		638.00/2,000	
SN74LV273ADGVR	296-3810-1-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP	.96	.72	.54
SN74LV273ADGVR	296-3810-2-ND	Octal D-Type Flip-Flop with Clear	20-TVSOP		638.00/2,000	
SN74LV273ADW	296-3811-5-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.96	.72	.54
SN74LV273ADWR	296-14904-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.96	.72	.54
SN74LV273ADWR	296-14904-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC		638.00/2,000	
SN74LV273APWR	296-3812-1-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP	.96	.72	.54
SN74LV273APWR	296-3812-2-ND	Octal D-Type Flip-Flop with Clear	20-TSSOP		638.00/2,000	
SN74LV273ARGYR	296-13940-1-ND	Octal D-Type Flip-Flop with Clear	20-QFN	.87	.73	.58
SN74LV273ARGYR	296-13940-2-ND	Octal D-Type Flip-Flop with Clear	20-QFN		386.00/1,000	
SN74LV367ADGVR	296-13491-1-ND	Tri-State Hex Buffer/Line Driver	16-TVSOP	1.05	.88	.70

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LV367ADGVR	296-13491-2-ND	Tri-State Hex Buffer/Line Driver	16-TVSOP	932.00/2,000		
SN74LV367APWR	296-12350-1-ND	Tri-State Hex Buffer/Line Driver	16-TSSOP	1.05	.88	.70
SN74LV367APWR	296-12350-2-ND	Tri-State Hex Buffer/Line Driver	16-TSSOP	932.00/2,000		
SN74LV373ADBR	296-14317-1-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	.64	.48	.36
SN74LV373ADBR	296-14317-2-ND	Tri-St. Octal D-Type Transparent Latch	20-SSOP	426.00/2,000		
SN74LV373ADWR	296-16657-1-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	.64	.48	.36
SN74LV373ADWR	296-16657-2-ND	Tri-St. Octal Transparent D-Type Latch	20-SOIC	426.00/2,000		
SN74LV373ADW	296-1687-5-ND	Tri-St. Octal D-Type Transparent Latch	20-SOIC	.64	.48	.36
SN74LV373AGQNR	296-12092-1-ND	Tri-St. Octal D-Type Transparent Latch	20-BGA	.76	.57	.43
SN74LV373AGQNR	296-12092-2-ND	Tri-St. Octal D-Type Transparent Latch	20-BGA	253.00/1,000		
SN74LV373APWR	296-14318-1-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	.64	.48	.36
SN74LV373APWR	296-14318-2-ND	Tri-St. Octal D-Type Transparent Latch	20-TSSOP	426.00/2,000		
SN74LV373ARGYR	296-13942-1-ND	Tri-St. Octal D-Type Transparent Latch	20-QFN	.80	.60	.45
SN74LV373ARGYR	296-13942-2-ND	Tri-St. Octal D-Type Transparent Latch	20-QFN	266.00/1,000		
SN74LV374ADBR	296-12553-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.64	.48	.36
SN74LV374ADBR	296-12553-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	426.00/2,000		
SN74LV374ADW	296-1688-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.64	.48	.36
SN74LV374AGQNR	296-12093-1-ND	Tri-State Octal D-Type Flip-Flop	20-BGA	.90	.75	.60
SN74LV374AGQNR	296-12093-2-ND	Tri-State Octal D-Type Flip-Flop	20-BGA	399.00/1,000		
SN74LV374APWR	296-3820-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.64	.48	.36
SN74LV374APWR	296-3820-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	426.00/2,000		
SN74LV374ARGYR	296-13943-1-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	.76	.57	.43
SN74LV374ARGYR	296-13943-2-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	253.00/1,000		
SN74LV393ADBR	296-12351-1-ND	Dual 4-Bit Binary Counter	14-SSOP	.75	.63	.50
SN74LV393ADBR	296-12351-2-ND	Dual 4-Bit Binary Counter	14-SSOP	666.00/2,000		
SN74LV393ADGVR	296-13233-1-ND	Dual 4-Bit Binary Counter	14-TVSOP	.75	.63	.50
SN74LV393ADGVR	296-13233-2-ND	Dual 4-Bit Binary Counter	14-TVSOP	666.00/2,000		
SN74LV393ADR	296-11664-1-ND	Dual 4-Bit Binary Counter	14-SOIC	.75	.63	.50
SN74LV393ADR	296-11664-2-ND	Dual 4-Bit Binary Counter	14-SOIC	812.50/2,500		
SN74LV393ANSR	296-14192-1-ND	Dual 4-Bit Binary Counter	14-SOIC	.75	.63	.50
SN74LV393ANSR	296-14192-2-ND	Dual 4-Bit Binary Counter	14-SOIC	666.00/2,000		
SN74LV393APWR	296-11643-1-ND	Dual 4-Bit Binary Counter	14-TSSOP	.75	.63	.50
SN74LV393APWR	296-11643-2-ND	Dual 4-Bit Binary Counter	14-TSSOP	666.00/2,000		
SN74LV540ADGVR	296-14319-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.96	.72	.54
SN74LV540ADGVR	296-14319-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	638.00/2,000		
SN74LV540ADWR	296-3837-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.96	.72	.54
SN74LV540ADWR	296-3837-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	638.00/2,000		
SN74LV541ADBR	296-3838-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.78	.65	.52
SN74LV541ADBR	296-3838-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	692.00/2,000		
SN74LV541ADW	296-1689-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.78	.65	.52
SN74LV541APWR	296-13700-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.78	.65	.52
SN74LV541APWR	296-13700-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	692.00/2,000		
SN74LV541ARGYR	296-13949-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.78	.65	.52
SN74LV541ARGYR	296-13949-2-ND	Tri-State Octal Buffer/Driver	20-QFN	346.00/1,000		
SN74LV541ATDGVR	296-19261-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.86	.72	.58
SN74LV541ATDGVR	296-19261-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	766.00/2,000		
SN74LV541ATDWR	296-18662-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.96	.72	.54
SN74LV541ATDWR	296-18662-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	638.00/2,000		
SN74LV541ATPWR	296-18698-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.96	.72	.54
SN74LV541ATPWR	296-18698-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	638.00/2,000		
SN74LV541ATRGYR	296-18725-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.79	.66	.53
SN74LV541ATRGYR	296-18725-2-ND	Tri-State Octal Buffer/Driver	20-QFN	351.00/1,000		
SN74LV573ADBR	296-3839-1-ND	Tri-State Octal D-Type Latch	20-SSOP	.64	.48	.36
SN74LV573ADBR	296-3839-2-ND	Tri-State Octal D-Type Latch	20-SSOP	426.00/2,000		
SN74LV573ADW	296-1690-5-ND	Tri-State Octal D-Type Latch	20-SOIC	.64	.48	.36
SN74LV573ADWR	296-1690-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.64	.48	.36
SN74LV573ADWR	296-1690-2-ND	Tri-State Octal D-Type Latch	20-SOIC	426.00/2,000		
SN74LV573AGQNR	296-12094-1-ND	Tri-State Octal Transparent D-Type Latch	20-BGA	1.17	.98	.78
SN74LV573AGQNR	296-12094-2-ND	Tri-State Octal Transparent D-Type Latch	20-BGA	519.00/1,000		
SN74LV573APWR	296-3840-1-ND	Tri-State Octal D-Type Latch	20-TSSOP	.64	.48	.36
SN74LV573APWR	296-3840-2-ND	Tri-State Octal D-Type Latch	20-TSSOP	426.00/2,000		
SN74LV573ARGYR	296-13950-1-ND	Tri-State Octal D-Type Latch	20-QFN	.76	.57	.43
SN74LV573ARGYR	296-13950-2-ND	Tri-State Octal D-Type Latch	20-QFN	253.00/1,000		
SN74LV573ATDWR	296-18743-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.48	.36	.27
SN74LV573ATDWR	296-18743-2-ND	Tri-State Octal D-Type Latch	20-SOIC	320.00/2,000		
SN74LV573ATPWR	296-18745-1-ND	Tri-State Octal D-Type Latch	20-TSSOP	.48	.36	.27
SN74LV573ATPWR	296-18745-2-ND	Tri-State Octal D-Type Latch	20-TSSOP	320.00/2,000		
SN74LV573ATRGYR	296-18746-1-ND	Tri-State Octal D-Type Latch	20-QFN	.72	.54	.41
SN74LV573ATRGYR	296-18746-2-ND	Tri-State Octal D-Type Latch	20-QFN	239.00/1,000		
SN74LV574ADW	296-1691-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.64	.48	.36
SN74LV574AGQNR	296-12095-1-ND	Tri-State D-Type Flip-Flop	20-BGA	.78	.65	.52
SN74LV574AGQNR	296-12095-2-ND	Tri-State D-Type Flip-Flop	20-BGA	346.00/1,000		
SN74LV574APWR	296-12285-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.64	.48	.36
SN74LV574APWR	296-12285-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	426.00/2,000		
SN74LV574ARGYR	296-13951-1-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	.76	.57	.43
SN74LV574ARGYR	296-13951-2-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	253.00/1,000		
SN74LV594ADBR	296-3841-1-ND	8-Bit Shift Register w/Output Register	16-SSOP	.78	.65	.52
SN74LV594ADBR	296-3841-2-ND	8-Bit Shift Register w/Output Register	16-SSOP	692.00/2,000		
SN74LV595ADR	296-18747-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.96	.72	.54
SN74LV595ADR	296-18747-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	780.00/2,500		
SN74LV595APWR	296-3843-1-ND	Tri-State 8-Bit Shift Register	16-TSSOP	.96	.72	.54
SN74LV595APWR	296-3843-2-ND	Tri-State 8-Bit Shift Register	16-TSSOP	638.00/2,000		
SN74LV595ARGYR	296-13952-1-ND	Tri-State 8-Bit Shift Register	16-QFN	.87	.73	.58
SN74LV595ARGYR	296-13952-2-ND	Tri-State 8-Bit Shift Register	16-QFN	386.00/1,000		
SN74LV4040ADBR	296-3821-1-ND	12-Bit Async. Binary Counter	16-SSOP	1.20	1.00	.80
SN74LV4040ADBR	296-3821-2-ND	12-Bit Async. Binary Counter	16-SSOP	1064.00/2,000		
SN74LV4040ADGVR	296-3822-1-ND	12-Bit Async. Binary Counter	16-TVSOP	1.20	1.00	.80
SN74LV4040ADGVR	296-3822-2-ND	12-Bit Async. Binary Counter	16-TVSOP	1064.00/2,000		
SN74LV4040APWR	296-3824-1-ND	12-Bit Async. Binary Counter	16-TSSOP	1.20	1.00	.80
SN74LV4040APWR	296-3824-2-ND	12-Bit Async. Binary Counter	16-TSSOP	1064.00/2,000		
SN74LV4040ARGYR	296-13944-1-ND	12-Bit Async. Binary Counter	16-QFN	1.44	1.20	.96
SN74LV4040ARGYR	296-13944-2-ND	12-Bit Async. Binary Counter	16-QFN	638.00/1,000		
SN74LV4051ADBR	296-3825-1-ND	8-Channel Analog Mux/Demux	16-SSOP	.75	.63	.50
SN74LV4051ADBR	296-3825-2-ND	8-Channel Analog Mux/Demux	16-SSOP	666.00/2,000		
SN74LV4051ADGVR	296-3826-1-ND	8-Channel Analog Mux/Demux	16-TVSOP	.75	.63	.50
SN74LV4051ADGVR	296-3826-2-ND	8-Channel Analog Mux/Demux	16-TVSOP	666.00/2,000		
SN74LV4051ADR	296-3827-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.75	.63	.50
SN74LV4051ADR	296-3827-2-ND	8-Channel Analog Mux/Demux	16-SOIC	812.50/2,500		
SN74LV4051AN	296-3828-5-ND	8-Channel Analog Mux/Demux	16-Dip	.75	.63	.50
SN74LV4051ANSR	296-17113-1-ND	8-Channel Analog Mux/Demux	16-SOP	.75	.63	.50
SN74LV4051ANSR	296-17113-2-ND	8-Channel Analog Mux/Demux	16-SOP	666.00/2,000		
SN74LV4051APWR	296-3829-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4051APWR	296-3829-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	666.00/2,000		
SN74LV4051ARGYR	296-13945-1-ND	8-Channel Analog Mux/Demux	16-QFN	.90	.75	.60
SN74LV4051ARGYR	296-13945-2-ND	8-Channel Analog Mux/Demux	16-QFN	399.00/1,000		
SN74LV4051ATPWRQ1	296-19260-1-ND	8-Channel Analog Mux/Demux	16-TSSOP	.88	.74	.59
SN74LV4051ATPWRQ1	296-19260-2-ND	8-Channel Analog Mux/Demux	16-TSSOP	782.00/2,000		
SN74LV4052ADGVR	296-12706-1-ND	Dual 4-Channel Analog Mux/Demux	16-TVSOP	.75	.63	.50
SN74LV4052ADGVR	296-12706-2-ND	Dual 4-Channel Analog Mux/Demux	16-TVSOP	666.00/2,000		
SN74LV4052ADR	296-16707-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.75	.63	.50
SN74LV4052ADR	296-16707-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	812.50/2,500		
SN74LV4052AN	296-3830-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.75	.63	.50
SN74LV4052APW	296-3831-5-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4052APWR	296-3831-1-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4052APWR	296-3831-2-ND	Dual 4-Channel Analog Mux/Demux	16-TSSOP	666.00/2,000		
SN74LV4052ARGYR	296-13946-1-ND	Dual 4-Channel Analog Mux/Demux	16-QFN	.90	.75	.60
SN74LV4052ARGYR	296-13946-2-ND	Dual 4-Channel Analog Mux/Demux	16-QFN	399.00/1,000		
SN74LV4053ADR	296-16708-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.75	.63	.50
SN74LV4053ADR	296-16708-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	812.50/2,500		
SN74LV4053AN	296-3832-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.75	.63	.50
SN74LV4053APW	296-3833-5-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4053APWR	296-3833-1-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	.75	.63	.50
SN74LV4053APWR	296-3833-2-ND	Triple 2-Channel Analog Mux/Demux	16-TSSOP	650.00/2,000		
SN74LV4053ARGYR	296-13947-1-ND	Triple 2-Channel Analog Mux/Demux	16-QFN	.90	.75	.60
SN74LV4053ARGYR	296-13947-2-ND	Triple 2-Channel Analog Mux/Demux	16-QFN	399.00/1,000		
SN74LV4066ADR	296-3834-1-ND	Quad Bilateral Analog Switch	14-SOIC	.75	.63	.50
SN74LV4066ADR	296-3834-2-ND	Quad Bilateral Analog Switch	14-SOIC	812.50/2,500		
SN74LV4066AN	296-3835-5-ND	Quad Bilateral Analog Switch	14-Dip	.75	.63	.50
SN74LV4066APW	296-3836-5-ND	Quad Bilateral Analog Switch	14-TSSOP	.75	.63	.50
SN74LV4066APWR	296-3836-1-ND	Quad Bilateral Analog Switch	14-TSSOP	.75	.63	.50
SN74LV4066APWR	296-3836-2-ND	Quad Bilateral Analog Switch	14-TSSOP	666.00/2,000		
SN74LV4066ARGYR	296-13948-1-ND	Quad Bilateral Analog Switch	14-QFN	.90	.75	.60
SN74LV4066ARGYR	296-13948-2-ND	Quad Bilateral Analog Switch	14-QFN	399.00/1,000		
SN74LV4320AGKFR	296-17919-1-ND	Low Power Dual Supply, Level Translating CompactFlash™ Interface	114-LFBGA	5.40	4.32	3.65
SN74LV4320AGKFR	296-17919-2-ND	Low Power Dual Supply, Level Translating CompactFlash™ Interface	114-LFBGA	3375.00/1,000		
SN74LV8151DGVR	296-18748-1-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TVSOP	.87	.73	.58
SN74LV8151DGVR	296-18748-2-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TVSOP	772.00/2,000		
SN74LV8151DWR	296-18749-1-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-SOIC	.87	.73	.58
SN74LV8151DWR	296-18749-2-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-SOIC	772.00/2,000		
SN74LV8151NT	296-17840-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-Dip	.87	.73	.58
SN74LV8151PWR	296-17994-1-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TSSOP	.87	.73	.58
SN74LV8151PWR	296-17994-2-ND	Tri-State 10-Bit Universal Schmitt-Trigger Buffer	24-TSSOP	772.00/2,000		
SN74LV8153PWR	296-18750-1-ND	Serial-to-Parallel Interface	20-TSSOP	1.38	1.10	.83
SN74LV8153PWR	296-18750-2-ND	Serial-to-Parallel Interface	20-TSSOP	1430.00/2,000		
SN74LV8153QPWRQ1	296-17728-1-ND	Serial-to-Parallel Interface	20-TSSOP	1.61	1.29	.97
SN74LV8153QPWRQ1	296-17728-2-ND	Serial-to-Parallel Interface	20-TSSOP	1674.00/2,000		
SN74LV161284DGGR	296-1215-1-ND	19-Bit Bus Interface	48-TSSOP	3.04	2.43	1.89
SN74LV161284DGGR	296-1215-2-ND	19-Bit Bus Interface	48-TSSOP	3442.00/2,000		
SN74LV161284DL	296-1679-5-ND	19-Bit Bus Interface	48-SSOP	3.04	2.43	1.89
SN74LV161284DLR	296-3786-1-ND	19-Bit Bus Interface	48-SSOP	3.04	2.43	1.89
SN74LV161284DLR	296-3786-2-ND	19-Bit Bus Interface	48-SSOP	1721.00/1,000		

LVC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
1P1G125QDCKRQ1	296-18348-1-ND	Tri-State Single Bus Buffer Gate	SC70-5	.46	.37	.26
1P1G125QDCKRQ1	296-18348-2-ND	Tri-State Single Bus Buffer Gate	SC70-5	357.00/3,000		
1P1G3157QDBVRQ1	296-18349-1-ND	SPDT Analog Switch	SOT-23-6	.76	.62	.43
1P1G3157QDBVRQ1	296-18349-2-ND	SPDT Analog Switch	SOT-23-6	597.00/3,000		
1P1G3157QDCKRQ1	296-15610-1-ND	SPDT Analog Switch	SC70-6	.80	.60	.45
1P1G3157QDCKRQ1	296-15610-2-ND	SPDT Analog Switch	SC70-6	780.00/3,000		
SN74LVC1G00DBVR	296-9845-1-ND	2-Input NAND Gate	SOT-23-5	.39	.32	.22
SN74LVC1G00DBVR	296-9845-2-ND	2-Input NAND Gate	SOT-23-5	306.00/3,000		
SN74LVC1G00DCKR	296-9846-1-ND	2-Input NAND Gate	SC70	.39	.32	.22
SN74LVC1G00DCKR	296-9846-2-ND	2-Input NAND Gate	SC70	306.00/3,000		
SN74LVC1G00DRLR	296-18007-1-ND	2-Input NAND Gate	SOP-5	.42	.35	.24
SN74LVC1G00DRLR	296-18007-2-ND	2-Input NAND Gate	SOP-5	444.00/4,000		
SN74LVC1G00YEAR	296-14022-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G00YEAR	296-14022-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	741.00/3,000		
SN74LVC1G00YZAR	296-14023-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G00YZAR	296-14023-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	741.00/3,000		
SN74LVC1G00YZPR	296-14353-1-ND	Single 2-Input Positive NAND Gate	5-DSBGA	.53	.42	.32
SN74LVC1G00YZPR	296-14353-2-ND	Single 2-Input Positive NAND Gate	5-DSBGA	426.00/3,000		
SN74LVC1G02DRLR	296-18318-1-ND	Single 2-Input Positive NOR Gate	SOT-553	.42	.35	.24
SN74LVC1G02DRLR	296-18318-2-ND	Single 2-Input Positive NOR Gate	SOT-553	444.00/4,000		
SN74LVC1G02YEAR	296-14024-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G02YEAR	296-14024-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G02YZAR	296-13249-1-ND	Single 2-Input Positive NOR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G02YZAR	296-13249-2-ND	Single 2-Input Positive NOR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G04DRLR	296-18008-1-ND	Single Inverter Gate	SOP-5	.42	.35	.24
SN74LVC1G04DRLR	296-18008-2-ND	Single Inverter Gate	SOP-5	444.00/4,000		
SN74LVC1G04YEAR	296-13250-1-ND	Single Inverter Gate	5-DSBGA	.76	.57	.43
SN74LVC1G04YEAR	296-13250-2-ND	Single Inverter Gate	5-DSBGA	741.00/3,000		
SN74LVC1G04YEPR	296-14354-1-ND	Single Inverter Gate	5-DSBGA	.76	.57	.43
SN74LVC1G04YEPR	296-14354-2-ND	Single Inverter Gate	5-DSBGA	741.00/3,000		
SN74LVC1G04YZAR	296-14025-1-ND	Single Inverter Gate	5-DSBGA	.76	.57	.43
SN74LVC1G04YZAR	296-14025-2-ND	Single Inverter Gate	5-DSBGA	741.00/3,000		
SN74LVC1G04YZPR	296-14355-1-ND	Single Inverter Gate	5-DSBGA	.53	.42	.32
SN74LVC1G04YZPR	296-14355-2-ND	Single Inverter Gate	5-DSBGA	426.00/3,000		
SN74LVC1G06DBVR	296-8483-1-ND	Single Inverter Buffer/Driver with OD Output	SOT-23-5	.39	.32	.22
SN74LVC1G06DBVR	296-8483-2-ND	Single Inverter Buffer/Driver with OD Output	SOT-23-5	306.00/3,000		
SN74LVC1G06DCKR	296-8484-1-ND	Single Inverter Buffer/Driver w/OD Output	SC70-5	.46	.37	.26
SN74LVC1G06DCKR	296-8484-2-ND	Single Inverter Buffer/Driver w/OD Output	SC70-5	357.00/3,000		
SN74LVC1G06DRLR	296-18009-1-ND	Single Inverter Buffer/Driver w/OD Output	SOP-5	.42	.35	.24
SN74LVC1G06DRLR	296-18009-2-ND	Single Inverter Buffer/Driver w/OD Output	SOP-5	444.00/4,000		
SN74LVC1G06YEPR	296-18752-1-ND	Single Inverter Buffer/Driver with OD Output	5-DSBGA	.76	.57	.43
SN74LVC1G06YEPR	296-18752-2-ND	Single Inverter Buffer/Driver with OD Output	5-DSBGA	741.00/3,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC1G07DBVR	296-8485-1-ND	Single Buffer/Driver with OD Output	SOT-23-5	.46	.37	.26
SN74LVC1G07DBVR	296-8485-2-ND	Single Buffer/Driver with OD Output	SOT-23-5	357.00/3,000		
SN74LVC1G07DCKR	296-8486-1-ND	Single Buffer/Driver with OD Output	SC70-5	.46	.37	.26
SN74LVC1G07DCKR	296-8486-2-ND	Single Buffer/Driver with OD Output	SC70-5	357.00/3,000		
SN74LVC1G07DRLR	296-18010-1-ND	Single Buffer/Driver with OD Output	SOT-533	.46	.37	.26
SN74LVC1G07DRLR	296-18010-2-ND	Single Buffer/Driver with OD Output	SOT-533	476.00/4,000		
SN74LVC1G07YEAR	296-13251-1-ND	Single Buffer/Driver with OD Output	5-DSBGA	.76	.57	.43
SN74LVC1G07YEAR	296-13251-2-ND	Single Buffer/Driver with OD Output	5-DSBGA	741.00/3,000		
SN74LVC1G07YZAR	296-14026-1-ND	Single Buffer/Driver with OD Output	5-DSBGA	.76	.57	.43
SN74LVC1G07YZAR	296-14026-2-ND	Single Buffer/Driver with OD Output	5-DSBGA	741.00/3,000		
SN74LVC1G08DCKR	296-11602-1-ND	Single 2-Input Positive AND Gate	SC70-5	.39	.32	.22
SN74LVC1G08DCKR	296-11602-2-ND	Single 2-Input Positive AND Gate	SC70-5	306.00/3,000		
SN74LVC1G08DRLR	296-18011-1-ND	Single 2-Input Positive AND Gate	SOP-5	.42	.35	.24
SN74LVC1G08DRLR	296-18011-2-ND	Single 2-Input Positive AND Gate	SOP-5	444.00/4,000		
SN74LVC1G08YEAR	296-12474-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G08YEAR	296-12474-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	741.00/3,000		
SN74LVC1G08YEPR	296-14357-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G08YEPR	296-14357-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	741.00/3,000		
SN74LVC1G08YZAR	296-13252-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G08YZAR	296-13252-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	741.00/3,000		
SN74LVC1G08YZPR	296-14358-1-ND	Single 2-Input Positive AND Gate	5-DSBGA	.53	.42	.32
SN74LVC1G08YZPR	296-14358-2-ND	Single 2-Input Positive AND Gate	5-DSBGA	426.00/3,000		
SN74LVC1G0832DBVR	296-18753-1-ND	Single 3-Input Positive AND/OR Gate	SOT-23-6	.55	.44	.33
SN74LVC1G0832DBVR	296-18753-2-ND	Single 3-Input Positive AND/OR Gate	SOT-23-6	447.00/3,000		
SN74LVC1G0832DCKR	296-18754-1-ND	Single 3-Input Positive AND/OR Gate	SC70-5	.55	.44	.33
SN74LVC1G0832DCKR	296-18754-2-ND	Single 3-Input Positive AND/OR Gate	SC70-5	447.00/3,000		
SN74LVC1G0832YZPR	296-18199-1-ND	Single 3-Input Positive AND/OR Gate	6-DSBGA	.52	.39	.30
SN74LVC1G0832YZPR	296-18199-2-ND	Single 3-Input Positive AND/OR Gate	6-DSBGA	507.00/3,000		
SN74LVC1G10DBVR	296-18755-1-ND	Single 3-Input Positive NAND Gate	SOT-23-6	.39	.32	.22
SN74LVC1G10DBVR	296-18755-2-ND	Single 3-Input Positive NAND Gate	SOT-23-6	306.00/3,000		
SN74LVC1G10DCKR	296-17844-1-ND	Single 3-Input Positive NAND Gate	SC70-6	.39	.32	.22
SN74LVC1G10DCKR	296-17844-2-ND	Single 3-Input Positive NAND Gate	SC70-6	306.00/3,000		
SN74LVC1G10YZPR	296-18756-1-ND	Single 3-Input Positive NAND Gate	6-DSBGA	.50	.38	.29
SN74LVC1G10YZPR	296-18756-2-ND	Single 3-Input Positive NAND Gate	6-DSBGA	489.00/3,000		
SN74LVC1G11DBVR	296-16810-1-ND	Single 3-Input Positive AND Gate	SOT-23-6	.39	.32	.22
SN74LVC1G11DBVR	296-16810-2-ND	Single 3-Input Positive AND Gate	SOT-23-6	306.00/3,000		
SN74LVC1G11DCKR	296-18066-1-ND	Single 3-Input Positive AND Gate	SC70-6	.39	.32	.22
SN74LVC1G11DCKR	296-18066-2-ND	Single 3-Input Positive AND Gate	SC70-6	306.00/3,000		
SN74LVC1G11YZPR	296-18757-1-ND	Single 3-Input Positive AND Gate	6-DSBGA	.50	.38	.29
SN74LVC1G11YZPR	296-18757-2-ND	Single 3-Input Positive AND Gate	6-DSBGA	489.00/3,000		
SN74LVC1G14DRLR	296-18014-1-ND	Single Schmitt-Trigger Inverter	SOP-5	.46	.37	.26
SN74LVC1G14DRLR	296-18014-2-ND	Single Schmitt-Trigger Inverter	SOP-5	476.00/4,000		
SN74LVC1G14YEAR	296-13037-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.76	.57	.43
SN74LVC1G14YEAR	296-13037-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	741.00/3,000		
SN74LVC1G14YEPR	296-14362-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.76	.57	.43
SN74LVC1G14YEPR	296-14362-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	741.00/3,000		
SN74LVC1G14YZAR	296-13038-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.76	.57	.43
SN74LVC1G14YZAR	296-13038-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	741.00/3,000		
SN74LVC1G14YZPR	296-14363-1-ND	Single Schmitt-Trigger Inverter	5-DSBGA	.53	.42	.32
SN74LVC1G14YZPR	296-14363-2-ND	Single Schmitt-Trigger Inverter	5-DSBGA	426.00/3,000		
SN74LVC1G17DBVR	296-11933-1-ND	Single Schmitt-Trigger Buffer	SOT-23-5	.36	.29	.20
SN74LVC1G17DBVR	296-11933-2-ND	Single Schmitt-Trigger Buffer	SOT-23-5	282.00/3,000		
SN74LVC1G17DCKR	296-11934-1-ND	Single Schmitt-Trigger Buffer	SC70-5	.39	.32	.22
SN74LVC1G17DCKR	296-11934-2-ND	Single Schmitt-Trigger Buffer	SC70-5	306.00/3,000		
SN74LVC1G17DRLR	296-18585-1-ND	Single Schmitt-Trigger Buffer	SOT-553	.39	.32	.22
SN74LVC1G17DRLR	296-18585-2-ND	Single Schmitt-Trigger Buffer	SOT-553	408.00/4,000		
SN74LVC1G17YEAR	296-15566-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.76	.57	.43
SN74LVC1G17YEAR	296-15566-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	741.00/3,000		
SN74LVC1G17YZAR	296-15567-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.76	.57	.43
SN74LVC1G17YZAR	296-15567-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	741.00/3,000		
SN74LVC1G17YZPR	296-18761-1-ND	Single Schmitt-Trigger Buffer	5-DSBGA	.53	.42	.32
SN74LVC1G17YZPR	296-18761-2-ND	Single Schmitt-Trigger Buffer	5-DSBGA	426.00/3,000		
SN74LVC1G18DBVR	296-15568-1-ND	Tri-State 1-of-2 Noninverting Demux	SOT-23-6	.42	.35	.24
SN74LVC1G18DBVR	296-15568-2-ND	Tri-State 1-of-2 Noninverting Demux	SOT-23-6	333.00/3,000		
SN74LVC1G18DCKR	296-15569-1-ND	Tri-State 1-of-2 Noninverting Demux	SC70-6	.78	.59	.43
SN74LVC1G18DCKR	296-15569-2-ND	Tri-State 1-of-2 Noninverting Demux	SC70-6	459.00/3,000		
SN74LVC1G18YEAR	296-15570-1-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA	.76	.57	.43
SN74LVC1G18YEAR	296-15570-2-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA	741.00/3,000		
SN74LVC1G18YZAR	296-15571-1-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA	.76	.57	.43
SN74LVC1G18YZAR	296-15571-2-ND	Tri-State 1-of-2 Noninverting Demux	6-DSBGA	741.00/3,000		
SN74LVC1G19DBVR	296-16982-1-ND	1-of-2 Decoder/Demux	SOP-6	.42	.35	.24
SN74LVC1G19DBVR	296-16982-2-ND	1-of-2 Decoder/Demux	SOP-6	333.00/3,000		
SN74LVC1G19DCKR	296-17991-1-ND	1-of-2 Decoder/Demux	SC70-6	.42	.35	.24
SN74LVC1G19DCKR	296-17991-2-ND	1-of-2 Decoder/Demux	SC70-6	333.00/3,000		
SN74LVC1G19DRLR	296-18319-1-ND	1-of-2 Decoder/Demux	SOT-553	.49	.40	.27
SN74LVC1G19DRLR	296-18319-2-ND	1-of-2 Decoder/Demux	SOT-553	512.00/4,000		
SN74LVC1G19YEPR	296-18762-1-ND	1-of-2 Decoder/Demux	6-DSBGA	.76	.57	.43
SN74LVC1G19YEPR	296-18762-2-ND	1-of-2 Decoder/Demux	6-DSBGA	741.00/3,000		
SN74LVC1G19YZPR	296-18586-1-ND	1-of-2 Decoder/Demux	6-WCSP	.48	.36	.27
SN74LVC1G19YZPR	296-18586-2-ND	1-of-2 Decoder/Demux	6-WCSP	468.00/3,000		
SN74LVC1G27DBVR	296-17119-1-ND	Single 3-Input Positive NOR Gate	SOT-23-6	.39	.32	.22
SN74LVC1G27DBVR	296-17119-2-ND	Single 3-Input Positive NOR Gate	SOT-23-6	306.00/3,000		
SN74LVC1G27DCKR	296-18764-1-ND	Single 3-Input Positive NOR Gate	SC70-6	.40	.32	.24
SN74LVC1G27DCKR	296-18764-2-ND	Single 3-Input Positive NOR Gate	SC70-6	324.00/3,000		
SN74LVC1G27YEPR	296-18765-1-ND	Single 3-Input Positive NOR Gate	6-DSBGA	.76	.57	.43
SN74LVC1G27YEPR	296-18765-2-ND	Single 3-Input Positive NOR Gate	6-DSBGA	741.00/3,000		
SN74LVC1G27YZPR	296-18766-1-ND	Single 3-Input Positive NOR Gate	6-DSBGA	.53	.42	.32
SN74LVC1G27YZPR	296-18766-2-ND	Single 3-Input Positive NOR Gate	6-DSBGA	426.00/3,000		
SN74LVC1G29DCTR	296-18767-1-ND	2-of-3 Decoder/Demux	8-SSOP	.50	.38	.29
SN74LVC1G29DCTR	296-18767-2-ND	2-of-3 Decoder/Demux	8-SSOP	489.00/3,000		
SN74LVC1G29DCUR	296-18768-1-ND	2-of-3 Decoder/Demux	8-VSSOP	.50	.38	.29
SN74LVC1G29DCUR	296-18768-2-ND	2-of-3 Decoder/Demux	8-VSSOP	489.00/3,000		
SN74LVC1G29YZPR	296-18769-1-ND	2-of-3 Decoder/Demux	8-DSBGA	.50	.38	.29
SN74LVC1G29YZPR	296-18769-2-ND	2-of-3 Decoder/Demux	8-DSBGA	489.00/3,000		
SN74LVC1G32DBVR	296-9847-1-ND	Single 2-Input Positive OR Gate	SOT-23-5	.39	.32	.22
SN74LVC1G32DBVR	296-9847-2-ND	Single 2-Input Positive OR Gate	SOT-23-5	306.00/3,000		
SN74LVC1G32DCKR	296-9848-1-ND	Single 2-Input Positive OR Gate	SC70	.39	.32	.22
SN74LVC1G32DCKR	296-9848-2-ND	Single 2-Input Positive OR Gate	SC70	306.00/3,000		
SN74LVC1G32DRLR	296-18016-1-ND	Single 2-Input Positive OR Gate	SOP-5	.48	.36	.27
SN74LVC1G32DRLR	296-18016-2-ND	Single 2-Input Positive OR Gate	SOP-5	624.00/4,000		
SN74LVC1G32YEAR	296-13039-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G32YEAR	296-13039-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G32YZAR	296-14028-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G32YZAR	296-14028-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G32YZPR	296-14365-1-ND	Single 2-Input Positive OR Gate	5-DSBGA	.53	.42	.32
SN74LVC1G32YZPR	296-14365-2-ND	Single 2-Input Positive OR Gate	5-DSBGA	426.00/3,000		
SN74LVC1G34DBVR	296-17893-1-ND	Single Buffer Gate	SOT-23-5	.39	.32	.22
SN74LVC1G34DBVR	296-17893-2-ND	Single Buffer Gate	SOT-23-5	306.00/3,000		
SN74LVC1G34DCKR	296-17230-1-ND	Single Buffer Gate	SC70-5	.39	.32	.22
SN74LVC1G34DCKR	296-17230-2-ND	Single Buffer Gate	SC70-5	306.00/3,000		
SN74LVC1G34DRLR	296-18017-1-ND	Single Buffer Gate	SOP-5	.42	.35	.24
SN74LVC1G34DRLR	296-18017-2-ND	Single Buffer Gate	SOP-5	444.00/4,000		
SN74LVC1G34YZPR	296-18773-1-ND	Single Buffer Gate	5-DSBGA	.53	.42	.32
SN74LVC1G34YZPR	296-18773-2-ND	Single Buffer Gate	5-DSBGA	426.00/3,000		
SN74LVC1G38DBVR	296-17846-1-ND	Single 2-Input NAND Gate with Open Drain Output	SOT-23-5	.39	.32	.22
SN74LVC1G38DBVR	296-17846-2-ND	Single 2-Input NAND Gate with Open Drain Output	SOT-23-5	306.00/3,000		
SN74LVC1G38DCKR	296-17907-1-ND	Single 2-Input NAND Gate with Open Drain Output	SC70-5	.39	.32	.22
SN74LVC1G38DCKR	296-17907-2-ND	Single 2-Input NAND Gate with Open Drain Output	SC70-5	306.00/3,000		
SN74LVC1G38YZPR	296-18783-1-ND	Single 2-Input NAND Gate with Open Drain Output	5-DSBGA	.53	.42	.32
SN74LVC1G38YZPR	296-18783-2-ND	Single 2-Input NAND Gate with Open Drain Output	5-DSBGA	426.00/3,000		
SN74LVC1G57DBVR	296-15574-1-ND	Configurable Multiple-Function Gate	SOT-23-6	.39	.32	.22
SN74LVC1G57DBVR	296-15574-2-ND	Configurable Multiple-Function Gate	SOT-23-6	306.00/3,000		
SN74LVC1G57DCKR	296-15575-1-ND	Configurable Multiple-Function Gate	SC70-6	.39	.32	.22
SN74LVC1G57DCKR	296-15575-2-ND	Configurable Multiple-Function Gate	SC70-6	306.00/3,000		
SN74LVC1G57DRLR	296-18653-1-ND	Configurable Multiple-Function Gate	SOT-553	.46	.37	.26
SN74LVC1G57DRLR	296-18653-2-ND	Configurable Multiple-Function Gate	SOT-553	476.00/4,000		
SN74LVC1G57YEAR	296-14293-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G57YEAR	296-14293-2-ND	Configurable Multiple-Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G57YZPR	296-18784-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.53	.42	.32
SN74LVC1G57YZPR	296-18784-2-ND	Configurable Multiple-Function Gate	6-DSBGA	426.00/3,000		
SN74LVC1G58DBVR	296-15576-1-ND	Configurable Multiple-Function Gate	SOT-23-6	.39	.32	.22
SN74LVC1G58DBVR	296-15576-2-ND	Configurable Multiple-Function Gate	SOT-23-6	306.00/3,000		
SN74LVC1G58DCKR	296-15577-1-ND	Configurable Multiple-Function Gate	SC70-6	.39	.32	.22
SN74LVC1G58DCKR	296-15577-2-ND	Configurable Multiple-Function Gate	SC70-6	306.00/3,000		
SN74LVC1G58DRLR	296-18654-1-ND	Configurable Multiple-Function Gate	SOT-553	.46	.37	.26
SN74LVC1G58DRLR	296-18654-2-ND	Configurable Multiple-Function Gate	SOT-553	476.00/4,000		
SN74LVC1G58YEAR	296-14294-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G58YEAR	296-14294-2-ND	Configurable Multiple-Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G58YZPR	296-18785-1-ND	Configurable Multiple-Function Gate	6-DSBGA	.53	.42	.32
SN74LVC1G58YZPR	296-18785-2-ND	Configurable Multiple-Function Gate	6-DSBGA	426.00/3,000		
SN74LVC1G66DBVR	296-13253-1-ND	Single Bilateral Analog Switch	SOT-23-5	.46	.37	.26
SN74LVC1G66DBVR	296-13253-2-ND	Single Bilateral Analog Switch	SOT-23-5	357.00/3,000		
SN74LVC1G66DCKR	296-13254-1-ND	Single Bilateral Analog Switch	SC-70-5	.45	.36	.27
SN74LVC1G66DCKR	296-13254-2-ND	Single Bilateral Analog Switch	SC-70-5	366.00/3,000		
SN74LVC1G66DRLR	296-18018-1-ND	Single Bilateral Analog Switch	SOT-533	.45	.36	.27
SN74LVC1G66DRLR	296-18018-2-ND	Single Bilateral Analog Switch	SOT-533	488.00/4,000		
SN74LVC1G66YEAR	296-13255-1-ND	Single Bilateral Analog Switch	5-DSBGA	.76	.57	.43
SN74LVC1G66YEAR	296-13255-2-ND	Single Bilateral Analog Switch	5-DSBGA	741.00/3,000		
SN74LVC1G66YEPR	296-18786-1-ND	Single Bilateral Analog Switch	5-DSBGA	.76	.57	.43
SN74LVC1G66YEPR	296-18786-2-ND	Single Bilateral Analog Switch	5-DSBGA	741.00/3,000		
SN74LVC1G66YZAR	296-14029-1-ND	Single Bilateral Analog Switch	5-DSBGA	.76	.57	.43
SN74LVC1G66YZAR	296-14029-2-ND	Single Bilateral Analog Switch	5-DSBGA	741.00/3,000		
SN74LVC1G66YZPR	296-15108-1-ND	Single Bilateral Analog Switch	5-DSBGA	.48	.36	.27
SN74LVC1G66YZPR	296-15108-2-ND	Single Bilateral Analog Switch	5-DSBGA	468.00/3,000		
SN74LVC1G79DBVR	296-9849-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	.39	.32	.22
SN74LVC1G79DBVR	296-9849-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	306.00/3,000		
SN74LVC1G79DCKR	296-9850-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	.39	.32	.22
SN74LVC1G79DCKR	296-9850-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	306.00/3,000		
SN74LVC1G79DRLR	296-18019-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-533	.46	.37	.26
SN74LVC1G79DRLR	296-18019-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SOT-533	476.00/4,000		
SN74LVC1G79WDCKREP	296-19506-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop ***NEW!***	SC70-5	1.50	1.20	.90
SN74LVC1G79WDCKREP	296-19506-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop ***NEW!***	SC70-5	2304.00/3,000		
SN74LVC1G79YEAR	296-14030-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G79YEAR	296-14030-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	741.00/3,000		
SN74LVC1G79YEPR	296-18787-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G79YEPR	296-18787-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	741.00/3,000		
SN74LVC1G79YZAR	296-15578-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G79YZAR	296-15578-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	741.00/3,000		
SN74LVC1G79YZPR	296-18788-1-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	.53	.42	.32
SN74LVC1G79YZPR	296-18788-2-ND	Single Positive Edge-Triggered D-Type Flip-Flop	5-DSBGA	426.00/3000		
SN74LVC1G80DBVR	296-9851-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	.39	.32	.22
SN74LVC1G80DBVR	296-9851-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SOT-23-5	306.00/3,000		
SN74LVC1G80DCKR	296-9852-1-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	.39	.32	.22
SN74LVC1G80DCKR	296-9852-2-ND	Positive Edge-Trig. D-Type Flip-Flop	SC70-5	306.00/3,000		
SN74LVC1G80YEAR	296-15579-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G80YEAR	296-15579-2-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	741.00/3,000		
SN74LVC1G80YEPR	296-18789-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G80YEPR	296-18789-2-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	741.00/3,000		
SN74LVC1G80YZAR	296-14031-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.76	.57	.43
SN74LVC1G80YZAR	296-14031-2-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	741.00/3,000		
SN74LVC1G80YZPR	296-18790-1-ND	Positive Edge-Trig. D-Type Flip-Flop	5-DSBGA	.53	.42	.32
SN74LVC1G80YZPR	296-18790-2-ND	Positive-Edge-Trig. D-Type Flip-Flop	5-DSBGA	426.00/3,000		
SN74LVC1G86DBVR	296-9853-1-ND	2-Input Exclusive OR Gate	SOT-23-5	.36	.29	.20
SN74LVC1G86DBVR	296-9853-2-ND	2-Input Exclusive OR Gate	SOT-23-5	282.00/3,000		
SN74LVC1G86DCKR	296-9854-1-ND	2-Input Exclusive OR Gate	SC70	.39	.32	.22
SN74LVC1G86DCKR	296-9854-2-ND	2-Input Exclusive OR Gate	SC70	306.00/3,000		
SN74LVC1G86DRLR	296-18613-1-ND	2-Input Exclusive OR Gate	5-SOP	.46	.37	.26
SN74LVC1G86DRLR	296-18613-2-ND	2-Input Exclusive OR Gate	5-SOP	476.00/4,000		
SN74LVC1G86YEAR	296-15580-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G86YEAR	296-15580-2-ND	2-Input Exclusive OR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G86YEPR	296-18791-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.76	.57	.43

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVC1G86YEPR	296-18791-2-ND	2-Input Exclusive OR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G86YZAR	296-14032-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G86YZAR	296-14032-2-ND	2-Input Exclusive OR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G86YZPR	296-18792-1-ND	2-Input Exclusive OR Gate	5-DSBGA	.53	.42	.32
SN74LVC1G86YZPR	296-18792-2-ND	2-Input Exclusive OR Gate	5-DSBGA	426.00/3,000		
SN74LVC1G97DBVR	296-15581-1-ND	Configurable Multiple Function Gate	SOT-23-6	.39	.32	.22
SN74LVC1G97DBVR	296-15581-2-ND	Configurable Multiple Function Gate	SOT-23-6	234.00/3,000		
SN74LVC1G97DCKR	296-15582-1-ND	Configurable Multiple Function Gate	SC70-6	.39	.32	.22
SN74LVC1G97DCKR	296-15582-2-ND	Configurable Multiple Function Gate	SC70-6	234.00/3,000		
SN74LVC1G97DRLR	296-18655-1-ND	Configurable Multiple Function Gate	SOT-553	.46	.37	.26
SN74LVC1G97DRLR	296-18655-2-ND	Configurable Multiple Function Gate	SOT-553	476.00/4,000		
SN74LVC1G97QDCKRQ1	296-17671-1-ND	Configurable Multiple Function Gate	SC70-6	.46	.37	.26
SN74LVC1G97QDCKRQ1	296-17671-2-ND	Configurable Multiple Function Gate	SC70-6	357.00/3,000		
SN74LVC1G97YEAR	296-14366-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G97YEAR	296-14366-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G97YEPR	296-16851-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G97YEPR	296-16851-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G97YZAR	296-14367-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G97YZAR	296-14367-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G97YZPR	296-16852-1-ND	Configurable Multiple Function Gate	6-DSBGA	.50	.38	.29
SN74LVC1G97YZPR	296-16852-2-ND	Configurable Multiple Function Gate	6-DSBGA	489.00/3,000		
SN74LVC1G98DBVR	296-15583-1-ND	Configurable Multiple Function Gate	SOT-23-6	.42	.35	.24
SN74LVC1G98DBVR	296-15583-2-ND	Configurable Multiple Function Gate	SOT-23-6	333.00/3,000		
SN74LVC1G98DCKR	296-15584-1-ND	Configurable Multiple Function Gate	SC70-5	.39	.32	.22
SN74LVC1G98DCKR	296-15584-2-ND	Configurable Multiple Function Gate	SC70-5	234.00/3,000		
SN74LVC1G98DRLR	296-18656-1-ND	Configurable Multiple Function Gate	SOT-553	.46	.37	.26
SN74LVC1G98DRLR	296-18656-2-ND	Configurable Multiple Function Gate	SOT-553	476.00/4,000		
SN74LVC1G98QDCKRQ1	296-17672-1-ND	Configurable Multiple Function Gate	SC70-6	.46	.37	.26
SN74LVC1G98QDCKRQ1	296-17672-2-ND	Configurable Multiple Function Gate	SC70-6	357.00/3,000		
SN74LVC1G98YEAR	296-14368-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G98YEAR	296-14368-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G98YEPR	296-18793-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G98YEPR	296-18793-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G98YZAR	296-14369-1-ND	Configurable Multiple Function Gate	6-DSBGA	.76	.57	.43
SN74LVC1G98YZAR	296-14369-2-ND	Configurable Multiple Function Gate	6-DSBGA	741.00/3,000		
SN74LVC1G99DCTR	296-18590-1-ND	Tri-State Ultra Configurable Multiple Function Gate	8-SSOP	.55	.44	.33
SN74LVC1G99DCTR	296-18590-2-ND	Tri-State Ultra Configurable Multiple Function Gate	8-SSOP	447.00/3,000		
SN74LVC1G99DCUR	296-18795-1-ND	Tri-State Ultra Configurable Multiple Function Gate	8-VSSOP	.55	.44	.33
SN74LVC1G99DCUR	296-18795-2-ND	Tri-State Ultra Configurable Multiple Function Gate	8-VSSOP	447.00/3,000		
SN74LVC1G99YZPR	296-17900-1-ND	Tri-State Ultra Configurable Multiple Function Gate	8-WCSP	.52	.39	.30
SN74LVC1G99YZPR	296-17900-2-ND	Tri-State Ultra Configurable Multiple Function Gate	8-WCSP	507.00/3,000		
SN74LVC1G123DCTR	296-18758-1-ND	Single Retriggerable Mono Multivibrator	8-SSOP	.50	.38	.29
SN74LVC1G123DCTR	296-18758-2-ND	Single Retriggerable Mono Multivibrator	8-SSOP	489.00/3,000		
SN74LVC1G125DRLR	296-18012-1-ND	Tri-State Single Bus Buffer Gate	SOP-5	.46	.37	.26
SN74LVC1G125DRLR	296-18012-2-ND	Tri-State Single Bus Buffer Gate	SOP-5	476.00/4,000		
SN74LVC1G125YEAR	296-14359-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.76	.57	.43
SN74LVC1G125YEAR	296-14359-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	741.00/3,000		
SN74LVC1G125YZPR	296-18759-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.53	.42	.32
SN74LVC1G125YZPR	296-18759-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	426.00/3,000		
SN74LVC1G126DRLR	296-18013-1-ND	Tri-State Single Bus Buffer Gate	SOP-5	.48	.36	.27
SN74LVC1G126DRLR	296-18013-2-ND	Tri-State Single Bus Buffer Gate	SOP-5	624.00/4,000		
SN74LVC1G126YEAR	296-15564-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.76	.57	.43
SN74LVC1G126YEAR	296-15564-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	741.00/3,000		
SN74LVC1G126YEPR	296-15565-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.76	.57	.43
SN74LVC1G126YEPR	296-15565-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	741.00/3,000		
SN74LVC1G126YZAR	296-14027-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.76	.57	.43
SN74LVC1G126YZAR	296-14027-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	741.00/3,000		
SN74LVC1G126YZPR	296-14361-1-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	.53	.42	.32
SN74LVC1G126YZPR	296-14361-2-ND	Tri-State Single Bus Buffer Gate	5-DSBGA	426.00/3,000		
SN74LVC1G132DBVR	296-17888-1-ND	Single 2-Input NAND Gate	SOT-23-5	.39	.32	.22
SN74LVC1G132DBVR	296-17888-2-ND	Single 2-Input NAND Gate	SOT-23-5	306.00/3,000		
SN74LVC1G132DCKR	296-18760-1-ND	Single 2-Input NAND Gate	SC70-5	.39	.32	.22
SN74LVC1G132DCKR	296-18760-2-ND	Single 2-Input NAND Gate	SC70-5	306.00/3,000		
SN74LVC1G132YEPR	296-17473-1-ND	Single 2-Input NAND Gate	5-DSBGA	.76	.57	.43
SN74LVC1G132YEPR	296-17473-2-ND	Single 2-Input NAND Gate	5-DSBGA	741.00/3,000		
SN74LVC1G132YZPR	296-17622-1-ND	Single 2-Input NAND Gate	5-DSBGA	.53	.42	.32
SN74LVC1G132YZPR	296-17622-2-ND	Single 2-Input NAND Gate	5-DSBGA	426.00/3,000		
SN74LVC1G139DCTR	296-18235-1-ND	2-to-4 Line Decoder	8-SSOP	.68	.51	.39
SN74LVC1G139DCTR	296-18235-2-ND	2-to-4 Line Decoder	8-SSOP	663.00/3,000		
SN74LVC1G139DCUR	296-18203-1-ND	2-to-4 Line Decoder	8-VSSOP	.48	.36	.27
SN74LVC1G139DCUR	296-18203-2-ND	2-to-4 Line Decoder	8-VSSOP	468.00/3,000		
SN74LVC1G175DBVR	296-17617-1-ND	Single D-Type F/F with Async. Clear	SOT-23-6	.39	.32	.22
SN74LVC1G175DBVR	296-17617-2-ND	Single D-Type F/F with Async. Clear	SOT-23-6	306.00/3,000		
SN74LVC1G175DCKR	296-16998-1-ND	Single D-Type F/F with Async. Clear	SC70-6	.39	.32	.22
SN74LVC1G175DCKR	296-16998-2-ND	Single D-Type F/F with Async. Clear	SC70-6	306.00/3,000		
SN74LVC1G175YZPR	296-17373-1-ND	Single D-Type F/F with Async. Clear	6-DSBGA	.53	.42	.32
SN74LVC1G175YZPR	296-17373-2-ND	Single D-Type F/F with Async. Clear	6-DSBGA	426.00/3,000		
SN74LVC1G240YEAR	296-14364-1-ND	Tri-State Single Buffer/Driver	5-DSBGA	.76	.57	.43
SN74LVC1G240YEAR	296-14364-2-ND	Tri-State Single Buffer/Driver	5-DSBGA	741.00/3,000		
SN74LVC1G240YEPR	296-15850-1-ND	Tri-State Single Buffer/Driver	5-DSBGA	.76	.57	.43
SN74LVC1G240YEPR	296-15850-2-ND	Tri-State Single Buffer/Driver	5-DSBGA	741.00/3,000		
SN74LVC1G240YZPR	296-15874-1-ND	Tri-State Single Buffer/Driver	5-DSBGA	.53	.42	.32
SN74LVC1G240YZPR	296-15874-2-ND	Tri-State Single Buffer/Driver	5-DSBGA	426.00/3,000		
SN74LVC1G332DBVR	296-18587-1-ND	3-Input Positive OR Gate	SOT-23-6	.39	.32	.22
SN74LVC1G332DBVR	296-18587-2-ND	3-Input Positive OR Gate	SOT-23-6	306.00/3,000		
SN74LVC1G332DCKR	296-15943-1-ND	3-Input Positive OR Gate	SC70-6	.39	.32	.22
SN74LVC1G332DCKR	296-15943-2-ND	3-Input Positive OR Gate	SC70-6	306.00/3,000		
SN74LVC1G332DRLR	296-18652-1-ND	3-Input Positive OR Gate	SOT-553	.46	.37	.26
SN74LVC1G332DRLR	296-18652-2-ND	3-Input Positive OR Gate	SOT-553	476.00/4,000		
SN74LVC1G332YEPR	296-15875-1-ND	3-Input Positive OR Gate	5-DSBGA	.76	.57	.43
SN74LVC1G332YEPR	296-15875-2-ND	3-Input Positive OR Gate	5-DSBGA	741.00/3,000		
SN74LVC1G332YZPR	296-15853-1-ND	3-Input Positive OR Gate	5-DSBGA	.58	.46	.35
SN74LVC1G332YZPR	296-15853-2-ND	3-Input Positive OR Gate	5-DSBGA	465.00/3,000		
SN74LVC1G373DBVR	296-18588-1-ND	Tri-State Single D-Type Latch	SOT-23-6	.38	.31	.21
SN74LVC1G373DBVR	296-18588-2-ND	Tri-State Single D-Type Latch	SOT-23-6	297.00/3,000		
SN74LVC1G373DCKR	296-18775-1-ND	Tri-State Single D-Type Latch	SC70-6	.38	.31	.21
SN74LVC1G373DCKR	296-18775-2-ND	Tri-State Single D-Type Latch	SC70-6	297.00/3,000		
SN74LVC1G373YZPR	296-17100-1-ND	Tri-State Single D-Type Latch	6-DSBGA	.50	.38	.29
SN74LVC1G373YZPR	296-17100-2-ND	Tri-State Single D-Type Latch	6-DSBGA	489.00/3,000		
SN74LVC1G374DBVR	296-18776-1-ND	Tri-State Single D-Type Flip-Flop	SOT-23-6	.38	.31	.21
SN74LVC1G374DBVR	296-18776-2-ND	Tri-State Single D-Type Flip-Flop	SOT-23-6	297.00/3,000		
SN74LVC1G374DCKR	296-18777-1-ND	Tri-State Single D-Type Flip-Flop	SC70-6	.38	.31	.21
SN74LVC1G374DCKR	296-18777-2-ND	Tri-State Single D-Type Flip-Flop	SC70-6	297.00/3,000		
SN74LVC1G374YZPR	296-18778-1-ND	Tri-State Single D-Type Flip-Flop	6-DSBGA	.50	.38	.29
SN74LVC1G374YZPR	296-18778-2-ND	Tri-State Single D-Type Flip-Flop	6-DSBGA	489.00/3,000		
SN74LVC1G386DBVR	296-18779-1-ND	Single 3-Input Positive XOR Gate	SOT-23-6	.39	.32	.22
SN74LVC1G386DBVR	296-18779-2-ND	Single 3-Input Positive XOR Gate	SOT-23-6	306.00/3,000		
SN74LVC1G386DCKR	296-18780-1-ND	Single 3-Input Positive XOR Gate	SC70-6	.39	.32	.22
SN74LVC1G386DCKR	296-18780-2-ND	Single 3-Input Positive XOR Gate	SC70-6	306.00/3,000		
SN74LVC1G386YEPR	296-18781-1-ND	Single 3-Input Positive XOR Gate	6-DSBGA	.76	.57	.43
SN74LVC1G386YEPR	296-18781-2-ND	Single 3-Input Positive XOR Gate	6-DSBGA	741.00/3,000		
SN74LVC1G386YZPR	296-18782-1-ND	Single 3-Input Positive XOR Gate	6-DSBGA	.50	.38	.29
SN74LVC1G386YZPR	296-18782-2-ND	Single 3-Input Positive XOR Gate	6-DSBGA	489.00/3,000		
SN74LVC1G3157DBVR	296-14908-1-ND	SPDT Analog Switch	SOT-23-6	.50	.40	.30
SN74LVC1G3157DBVR	296-14908-2-ND	SPDT Analog Switch	SOT-23-6	405.00/3,000		
SN74LVC1G3157DCKR	296-14909-1-ND	SPDT Analog Switch	SC70-6	.50	.40	.30
SN74LVC1G3157DCKR	296-14909-2-ND	SPDT Analog Switch	SC70-6	405.00/3,000		
SN74LVC1G3157DRLR	296-18015-1-ND	SPDT Analog Switch	SOT-533	.48	.36	.27
SN74LVC1G3157DRLR	296-18015-2-ND	SPDT Analog Switch	SOT-533	624.00/4,000		
SN74LVC1G3157YEPR	296-17186-1-ND	SPDT Analog Switch	6-DSBGA	.76	.57	.43
SN74LVC1G3157YEPR	296-17186-2-ND	SPDT Analog Switch	6-DSBGA	741.00/3,000		
SN74LVC1G3157YZPR	296-18770-1-ND	SPDT Analog Switch	6-DSBGA	.48	.36	.27
SN74LVC1G3157YZPR	296-18770-2-ND	SPDT Analog Switch	6-DSBGA	468.00/3,000		
SN74LVC1G3208DBVR	296-18771-1-ND	Single 3-Input Positive OR-AND Gate	SOT-23-6	.40	.32	.24
SN74LVC1G3208DBVR	296-18771-2-ND	Single 3-Input Positive OR-AND Gate	SOT-23-6	324.00/3,000		
SN74LVC1G3208DCKR	296-17845-1-ND	Single 3-Input Positive OR-AND Gate	SC70-6	.40	.32	.24
SN74LVC1G3208DCKR	296-17845-2-ND	Single 3-Input Positive OR-AND Gate	SC70-6	324.00/3,000		
SN74LVC1GU04DBVR	296-8487-1-ND	Single Inverter Gate	SOT-23-5	.39	.32	.22
SN74LVC1GU04DBVR	296-8487-2-ND	Single Inverter Gate	SOT-23-5	306.00/3,000		
SN74LVC1GU04DCKR	296-8488-1-ND	Single Inverter Gate	SC70-5	.40	.32	.24
SN74LVC1GU04DCKR	296-8488-2-ND	Single Inverter Gate	SC70-5	324.00/3,000		
SN74LVC1GU04DRLR	296-18657-1-ND	Single Inverter Gate	SOT-553	.40	.32	.24
SN74LVC1GU04DRLR	296-18657-2-ND	Single Inverter Gate	SOT-553	432.00/4,000		
SN74LVC1GU04YEAR	296-13730-1-ND	Single Inverter Gate	5-DSBGA	.76	.57	.43
SN74LVC1GU04YEAR	296-13730-2-ND	Single Inverter Gate	5-DSBGA	741.00/3,000		
SN74LVC1GU04YZAR	296-14033-1-ND	Single Inverter Gate	5-DSBGA	.76	.57	.43
SN74LVC1GU04YZAR	296-14033-2-ND	Single Inverter Gate	5-DSBGA	741.00/3,000		
SN74LVC1GU04YZPR	296-14370-1-ND	Single Inverter Gate	5-DSBGA	.53	.42	.32
SN74LVC1GU04YZPR	296-14370-2-ND	Single Inverter Gate	5-DSBGA	426.00/3,000		
SN74LVC1GX04DBVR	296-17821-1-ND	Crystal Oscillator Driver	SOT-23-6	.88	.66	.50
SN74LVC1GX04DBVR	296-17821-2-ND	Crystal Oscillator Driver	SOT-23-6	858.00/3,000		
SN74LVC1GX04DCKR	296-18796-1-ND	Crystal Oscillator Driver	SC70-6	.88	.66	.50
SN74LVC1GX04DCKR	296-18796-2-ND	Crystal Oscillator Driver	SC70-6	858.00/3,000		
SN74LVC1GX04DRLR	296-18614-1-ND	Crystal Oscillator Driver	6-SOP	.88	.66	.50
SN74LVC1GX04DRLR	296-18614-2-ND	Crystal Oscillator Driver	6-SOP	1144.00/4,000		
SN74LVC1T45DBVR	296-16843-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SOT-23-6	.52	.39	.30
SN74LVC1T45DBVR	296-16843-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SOT-23-6	507.00/3,000		
SN74LVC1T45DCKR	296-16844-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SC70-6	.52	.39	.30
SN74LVC1T45DCKR	296-16844-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	SC70-6	507.00/3,000		
SN74LVC1T45YEPR	296-17207-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	.84	.63	.48
SN74LVC1T45YEPR	296-17207-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	819.00/3,000		
SN74LVC1T45YZPR	296-17018-1-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	.56	.42	.32
SN74LVC1T45YZPR	296-17018-2-ND	Tri-State Single-Bit Dual Supply Bus Transceiver	6-DSBGA	546.00/3,000		
SN74LVC2G00DCTR	296-13257-1-ND	Dual 2-Input Positive NAND Gate	8-SSOP	.54	.41	.31
SN74LVC2G00DCTR	296-13257-2-ND	Dual 2-Input Positive NAND Gate	8-SSOP	528.00/3,000		
SN74LVC2G00DCUR	296-13258-1-ND	Dual 2-Input Positive NAND Gate	8-VSSOP	.48	.36	.27
SN74LVC2G00DCUR	296-13258-2-ND	Dual 2-Input Positive NAND Gate	8-VSSOP	468.00/3,000		
SN74LVC2G00WDCTREP	296-19507-1-ND	Dual 2-Input Positive NAND Gate ***NEW!***	8-SM	1.62	1.30	.98
SN74LVC2G00WDCTREP	296-19507-2-ND	Dual 2-Input Positive NAND Gate ***NEW!***	8-SM	2496.00/3,000		
SN74LVC2G00YEAR	296-15585-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.92	.69	.52
SN74LVC2G00YEAR	296-15585-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	897.00/3,000		
SN74LVC2G00YZAR	296-14034-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.92	.69	.52
SN74LVC2G00YZAR	296-14034-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	897.00/3,000		
SN74LVC2G00YZPR	296-18797-1-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	.58	.44	.33
SN74LVC2G00YZPR	296-18797-2-ND	Dual 2-Input Positive NAND Gate	8-DSBGA	567.00/3,000		
SN74LVC2G02DCTR	296-13259-1-ND	Dual 2-Input Positive NOR Gate	8-SSOP	.52	.39	.30
SN74LVC2G02DCTR	296-13259-2-ND	Dual 2-Input Positive NOR Gate	8-SSOP	507.00/3,000		
SN74LVC2G02DCUR	296-13260-1-ND	Dual 2-Input Positive NOR Gate	8-VSSOP	.48	.36	.27
SN74LVC2G02DCUR	296-13260-2-ND	Dual 2-Input Positive NOR Gate	8-VSSOP	468.00/3,000		
SN74LVC2G02YEAR	296-13731-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G02YEAR	296-13731-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G02YEPR	296-18798-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G02YEPR	296-18798-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G02YZAR	296-14035-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G02YZAR	296-14035-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G02YZPR	296-18799-1-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	.58	.44	.33
SN74LVC2G02YZPR	296-18799-2-ND	Dual 2-Input Positive NOR Gate	8-DSBGA	567.00/3,000		
SN74LVC2G04DBVR	296-13261-1-ND	Dual Inverter Gate	SOT-23-6	.40	.32	.24
SN74LVC2G04DBVR	296-13261-2-ND	Dual Inverter Gate	SOT-23-6	324.00/3,000		
SN74LVC2G04DCKR	296-13262-1-ND	Dual Inverter Gate	SC-70-6	.40	.32	.24
SN74LVC2G04DCKR	296-13262-2-ND	Dual Inverter Gate	SC-70-6	324.00/3,000		
SN74LVC2G04YEAR	296-13732-1-ND	Dual Inverter Gate	6-DSBGA	.92	.69	.52
SN74LVC2G04YEAR	296-13732-2-ND	Dual Inverter Gate	6-DSBGA	897.00/3,000		
SN74LVC2G04YEPR	296-18800-1-ND	Dual Inverter Gate	6-DSBGA	.92	.69	.52
SN74LVC2G04YEPR	296-18800-2-ND	Dual Inverter Gate	6-DSBGA	897.00/3,000		
SN74LVC2G04YZAR	296-13733-1-ND	Dual Inverter Gate	6-DSBGA	.92	.69	.52
SN74LVC2G04YZAR	296-13733-2-ND	Dual Inverter Gate	6-DSBGA	897.00/3,000		
SN74LVC2G06DBVR	296-13492-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SOT-23-6	.40	.32	.24
SN74LVC2G06DBVR	296-13492-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SOT-23-6	324.00/3,000		

(Continued)

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T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
SN74LVC2G06DCKR	296-13493-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC-70-6	.40	.32	.24
SN74LVC2G06DCKR	296-13493-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC-70-6	324.00/3,000		
SN74LVC2G06QDCKRQ1	296-18615-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC70-6	.47	.38	.29
SN74LVC2G06QDCKRQ1	296-18615-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	SC70-6	381.00/3,000		
SN74LVC2G06YEAR	296-13734-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	.92	.69	.52
SN74LVC2G06YEAR	296-13734-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	897.00/3,000		
SN74LVC2G06YEPR	296-18801-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	.92	.69	.52
SN74LVC2G06YEPR	296-18801-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	897.00/3,000		
SN74LVC2G06YZAR	296-13735-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	.92	.69	.52
SN74LVC2G06YZAR	296-13735-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	897.00/3,000		
SN74LVC2G06YZPR	296-17987-1-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	.58	.44	.33
SN74LVC2G06YZPR	296-17987-2-ND	Dual Inverter Buffer/Driver with Open-Drain Output	6-DSBGA	567.00/3,000		
SN74LVC2G07DBVR	296-13494-1-ND	Dual Buffer/Driver with OD Output	SOT-23-6	.40	.32	.24
SN74LVC2G07DBVR	296-13494-2-ND	Dual Buffer/Driver with OD Output	SOT-23-6	324.00/3,000		
SN74LVC2G07DCKR	296-13495-1-ND	Dual Buffer/Driver with OD Output	SC-70-6	.40	.32	.24
SN74LVC2G07DCKR	296-13495-2-ND	Dual Buffer/Driver with OD Output	SC-70-6	324.00/3,000		
SN74LVC2G07YEAR	296-13736-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	.92	.69	.52
SN74LVC2G07YEAR	296-13736-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	897.00/3,000		
SN74LVC2G07YZAR	296-13737-1-ND	Dual Buffer/Driver with OD Output	6-DSBGA	.92	.69	.52
SN74LVC2G07YZAR	296-13737-2-ND	Dual Buffer/Driver with OD Output	6-DSBGA	897.00/3,000		
SN74LVC2G08DCTR	296-13263-1-ND	Dual 2-Input Positive AND Gate	8-SSOP	.48	.36	.27
SN74LVC2G08DCTR	296-13263-2-ND	Dual 2-Input Positive AND Gate	8-SSOP	468.00/3,000		
SN74LVC2G08DCUR	296-13264-1-ND	Dual 2-Input Positive AND Gate	8-VSSOP	.48	.36	.27
SN74LVC2G08DCUR	296-13264-2-ND	Dual 2-Input Positive AND Gate	8-VSSOP	468.00/3,000		
SN74LVC2G08YEPR	296-16734-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.92	.69	.52
SN74LVC2G08YEPR	296-16734-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	897.00/3,000		
SN74LVC2G08YZAR	296-14036-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.92	.69	.52
SN74LVC2G08YZAR	296-14036-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	897.00/3,000		
SN74LVC2G08YZPR	296-14371-1-ND	Dual 2-Input Positive AND Gate	8-DSBGA	.58	.44	.33
SN74LVC2G08YZPR	296-14371-2-ND	Dual 2-Input Positive AND Gate	8-DSBGA	567.00/3,000		
SN74LVC2G14DBVR	296-13010-1-ND	Dual Schmitt-Trigger Inverter	SOT-23-6	.40	.32	.24
SN74LVC2G14DBVR	296-13010-2-ND	Dual Schmitt-Trigger Inverter	SOT-23-6	324.00/3,000		
SN74LVC2G14DCKR	296-13011-1-ND	Dual Schmitt-Trigger Inverter	SC70-6	.40	.32	.24
SN74LVC2G14DCKR	296-13011-2-ND	Dual Schmitt-Trigger Inverter	SC70-6	324.00/3,000		
SN74LVC2G14YEAR	296-13970-1-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	.92	.69	.52
SN74LVC2G14YEAR	296-13970-2-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	897.00/3,000		
SN74LVC2G14YZPR	296-18803-1-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	.58	.44	.33
SN74LVC2G14YZPR	296-18803-2-ND	Dual Schmitt-Trigger Inverter	6-DSBGA	567.00/3,000		
SN74LVC2G17DBVR	296-13012-1-ND	Dual Schmitt-Trigger Buffer	SOT-23-6	.40	.32	.24
SN74LVC2G17DBVR	296-13012-2-ND	Dual Schmitt-Trigger Buffer	SOT-23-6	324.00/3,000		
SN74LVC2G17DCKR	296-13013-1-ND	Dual Schmitt-Trigger Buffer	SC70-6	.40	.32	.24
SN74LVC2G17DCKR	296-13013-2-ND	Dual Schmitt-Trigger Buffer	SC70-6	324.00/3,000		
SN74LVC2G17QDCKRQ1	296-18297-1-ND	Dual Schmitt-Trigger Buffer	SC70	.47	.38	.29
SN74LVC2G17QDCKRQ1	296-18297-2-ND	Dual Schmitt-Trigger Buffer	SC70	381.00/3,000		
SN74LVC2G17YEAR	296-14039-1-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	.92	.69	.52
SN74LVC2G17YEAR	296-14039-2-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	897.00/3,000		
SN74LVC2G17YEPR	296-18805-1-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	.92	.69	.52
SN74LVC2G17YEPR	296-18805-2-ND	Dual Schmitt-Trigger Buffer	6-DSBGA	897.00/3,000		
SN74LVC2G32DCTR	296-13267-1-ND	Dual 2-Input Positive OR Gate	8-SSOP	.48	.36	.27
SN74LVC2G32DCTR	296-13267-2-ND	Dual 2-Input Positive OR Gate	8-SSOP	468.00/3,000		
SN74LVC2G32DCUR	296-13268-1-ND	Dual 2-Input Positive OR Gate	8-VSSOP	.48	.36	.27
SN74LVC2G32DCUR	296-13268-2-ND	Dual 2-Input Positive OR Gate	8-VSSOP	468.00/3,000		
SN74LVC2G32YEAR	296-15593-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G32YEAR	296-15593-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G32YEPR	296-15349-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G32YEPR	296-15349-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G32YZAR	296-14040-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G32YZAR	296-14040-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G32YZPR	296-15350-1-ND	Dual 2-Input Positive OR Gate	8-DSBGA	.58	.44	.33
SN74LVC2G32YZPR	296-15350-2-ND	Dual 2-Input Positive OR Gate	8-DSBGA	567.00/3,000		
SN74LVC2G34DBVR	296-13496-1-ND	Dual Buffer Gate	SOT-23-6	.48	.36	.27
SN74LVC2G34DBVR	296-13496-2-ND	Dual Buffer Gate	SOT-23-6	468.00/3,000		
SN74LVC2G34DCKR	296-13497-1-ND	Dual Buffer Gate	SC70-6	.48	.36	.27
SN74LVC2G34DCKR	296-13497-2-ND	Dual Buffer Gate	SC70-6	468.00/3,000		
SN74LVC2G34DRLR	296-18020-1-ND	Dual Buffer Gate	SOP-5	.48	.36	.27
SN74LVC2G34DRLR	296-18020-2-ND	Dual Buffer Gate	SOP-5	624.00/4,000		
SN74LVC2G34YEAR	296-13740-1-ND	Dual Buffer Gate	6-DSBGA	.92	.69	.52
SN74LVC2G34YEAR	296-13740-2-ND	Dual Buffer Gate	6-DSBGA	897.00/3,000		
SN74LVC2G34YEPR	296-17087-1-ND	Dual Buffer Gate	6-DSBGA	.92	.69	.52
SN74LVC2G34YEPR	296-17087-2-ND	Dual Buffer Gate	6-DSBGA	897.00/3,000		
SN74LVC2G34YZAR	296-13741-1-ND	Dual Buffer Gate	6-DSBGA	.92	.69	.52
SN74LVC2G34YZAR	296-13741-2-ND	Dual Buffer Gate	6-DSBGA	897.00/3,000		
SN74LVC2G38DCTR	296-17010-1-ND	Dual 2-Input NAND Gate	8-SSOP	.48	.36	.27
SN74LVC2G38DCTR	296-17010-2-ND	Dual 2-Input NAND Gate	8-SSOP	468.00/3,000		
SN74LVC2G38DCUR	296-18808-1-ND	Dual 2-Input NAND Gate	8-VSSOP	.48	.36	.27
SN74LVC2G38DCUR	296-18808-2-ND	Dual 2-Input NAND Gate	8-VSSOP	468.00/3,000		
SN74LVC2G38YZPR	296-18809-1-ND	Dual 2-Input NAND Gate	8-DSBGA	.58	.44	.33
SN74LVC2G38YZPR	296-18809-2-ND	Dual 2-Input NAND Gate	8-DSBGA	567.00/3,000		
SN74LVC2G53DCTR	296-13269-1-ND	Dual Analog Mux/Demux	8-SSOP	.52	.39	.30
SN74LVC2G53DCTR	296-13269-2-ND	Dual Analog Mux/Demux	8-SSOP	507.00/3,000		
SN74LVC2G53DCUR	296-13270-1-ND	Dual Analog Mux/Demux	8-VSSOP	.48	.36	.27
SN74LVC2G53DCUR	296-13270-2-ND	Dual Analog Mux/Demux	8-VSSOP	468.00/3,000		
SN74LVC2G53YEAR	296-13702-1-ND	Dual Analog Mux/Demux	8-DSBGA	.92	.69	.52
SN74LVC2G53YEAR	296-13702-2-ND	Dual Analog Mux/Demux	8-DSBGA	897.00/3,000		
SN74LVC2G53YZAR	296-12664-1-ND	Dual Analog Mux/Demux	8-DSBGA	.92	.69	.52
SN74LVC2G53YZAR	296-12664-2-ND	Dual Analog Mux/Demux	8-DSBGA	897.00/3,000		
SN74LVC2G53YZPR	296-14372-1-ND	Dual Analog Mux/Demux	8-DSBGA	.58	.44	.33
SN74LVC2G53YZPR	296-14372-2-ND	Dual Analog Mux/Demux	8-DSBGA	567.00/3,000		
SN74LVC2G66DCTR	296-13271-1-ND	Dual Bilateral Analog Switch	8-SSOP	.48	.36	.27
SN74LVC2G66DCTR	296-13271-2-ND	Dual Bilateral Analog Switch	8-SSOP	468.00/3,000		
SN74LVC2G66DCUR	296-13272-1-ND	Dual Bilateral Analog Switch	8-VSSOP	.48	.36	.27
SN74LVC2G66DCUR	296-13272-2-ND	Dual Bilateral Analog Switch	8-VSSOP	468.00/3,000		

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
SN74LVC2G66YEAR	296-15594-1-ND	Dual Bilateral Analog Switch	8-DSBGA	.92	.69	.52
SN74LVC2G66YEAR	296-15594-2-ND	Dual Bilateral Analog Switch	8-DSBGA	897.00/3,000		
SN74LVC2G66YZAR	296-14041-1-ND	Dual Bilateral Analog Switch	8-DSBGA	.92	.69	.52
SN74LVC2G66YZAR	296-14041-2-ND	Dual Bilateral Analog Switch	8-DSBGA	897.00/3,000		
SN74LVC2G66YZPR	296-14373-1-ND	Dual Bilateral Analog Switch	8-DSBGA	.58	.44	.33
SN74LVC2G66YZPR	296-14373-2-ND	Dual Bilateral Analog Switch	8-DSBGA	567.00/3,000		
SN74LVC2G74DCTR	296-13273-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-SSOP	.48	.36	.27
SN74LVC2G74DCTR	296-13273-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-SSOP	468.00/3,000		
SN74LVC2G74DCUR	296-12755-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-VSSOP	.48	.36	.27
SN74LVC2G74DCUR	296-12755-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-VSSOP	468.00/3,000		
SN74LVC2G74YEAR	296-15595-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-DSBGA	.92	.69	.52
SN74LVC2G74YEAR	296-15595-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-DSBGA	897.00/3,000		
SN74LVC2G74YEPR	296-14374-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-DSBGA	.92	.69	.52
SN74LVC2G74YEPR	296-14374-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-DSBGA	897.00/3,000		
SN74LVC2G74YZAR	296-14042-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-DSBGA	.92	.69	.52
SN74LVC2G74YZAR	296-14042-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-DSBGA	897.00/3,000		
SN74LVC2G74YZPR	296-14375-1-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-DSBGA	.58	.44	.33
SN74LVC2G74YZPR	296-14375-2-ND	Single Positive-Edge-Triggered D-Type Flip-Flop w/Clear and Preset	8-DSBGA	567.00/3,000		
SN74LVC2G79DCTR	296-17849-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-SSOP	.48	.36	.27
SN74LVC2G79DCTR	296-17849-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-SSOP	468.00/3,000		
SN74LVC2G79DCUR	296-17254-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-VSSOP	.48	.36	.27
SN74LVC2G79DCUR	296-17254-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-VSSOP	468.00/3,000		
SN74LVC2G79YEPR	296-15982-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.92	.69	.52
SN74LVC2G79YEPR	296-15982-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	897.00/3,000		
SN74LVC2G79YZPR	296-15983-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.58	.44	.33
SN74LVC2G79YZPR	296-15983-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	567.00/3,000		
SN74LVC2G80DCTR	296-18810-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-SSOP	.48	.36	.27
SN74LVC2G80DCTR	296-18810-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-SSOP	468.00/3,000		
SN74LVC2G80DCUR	296-17083-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-VSSOP	.48	.36	.27
SN74LVC2G80DCUR	296-17083-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-VSSOP	468.00/3,000		
SN74LVC2G80YEPR	296-15984-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.92	.69	.52
SN74LVC2G80YEPR	296-15984-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	897.00/3,000		
SN74LVC2G80YZPR	296-15985-1-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	.58	.44	.33
SN74LVC2G80YZPR	296-15985-2-ND	Dual Positive-Edge-Triggered D-Type Flip-Flop	8-DSBGA	567.00/3,000		
SN74LVC2G86DCTR	296-13274-1-ND	Dual 2-Input Exclusive OR Gate	8-SSOP	.48	.36	.27
SN74LVC2G86DCTR	296-13274-2-ND	Dual 2-Input Exclusive OR Gate	8-SSOP	468.00/3,000		
SN74LVC2G86DCUR	296-13275-1-ND	Dual 2-Input Exclusive OR Gate	8-VSSOP	.48	.36	.27
SN74LVC2G86DCUR	296-13275-2-ND	Dual 2-Input Exclusive OR Gate	8-VSSOP	468.00/3,000		
SN74LVC2G86YEAR	296-13972-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G86YEAR	296-13972-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G86YEPR	296-18811-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G86YEPR	296-18811-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G86YZAR	296-15709-1-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	.92	.69	.52
SN74LVC2G86YZAR	296-15709-2-ND	Dual 2-Input Exclusive OR Gate	8-DSBGA	897.00/3,000		
SN74LVC2G125DCTR	296-12164-1-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	.48	.36	.27
SN74LVC2G125DCTR	296-12164-2-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	468.00/3,000		
SN74LVC2G125DCUR	296-13265-1-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	.48	.36	.27
SN74LVC2G125DCUR	296-13265-2-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	468.00/3,000		
SN74LVC2G125YEAR	296-13738-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.92	.69	.52
SN74LVC2G125YEAR	296-13738-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	897.00/3,000		
SN74LVC2G125YZAR	296-14037-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.92	.69	.52
SN74LVC2G125YZAR	296-14037-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	897.00/3,000		
SN74LVC2G125YZPR	296-15109-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.58	.44	.33
SN74LVC2G125YZPR	296-15109-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	567.00/3,000		
SN74LVC2G126DCTR	296-12554-1-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	.48	.36	.27
SN74LVC2G126DCTR	296-12554-2-ND	Tri-State Dual Bus Buffer Gate	8-SSOP	468.00/3,000		
SN74LVC2G126DCUR	296-12555-1-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	.48	.36	.27
SN74LVC2G126DCUR	296-12555-2-ND	Tri-State Dual Bus Buffer Gate	8-VSSOP	468.00/3,000		
SN74LVC2G126YEAR	296-15586-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.92	.69	.52
SN74LVC2G126YEAR	296-15586-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	897.00/3,000		
SN74LVC2G126YZAR	296-14038-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.92	.69	.52
SN74LVC2G126YZAR	296-14038-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	897.00/3,000		
SN74LVC2G126YZPR	296-15587-1-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	.58	.44	.33
SN74LVC2G126YZPR	296-15587-2-ND	Tri-State Dual Bus Buffer Gate	8-DSBGA	567.00/3,000		
SN74LVC2G132DCTR	296-17056-1-ND	Dual 2-Input NAND Gate	8-SSOP	.48	.36	.27
SN74LVC2G132DCTR	296-17056-2-ND	Dual 2-Input NAND Gate	8-SSOP	468.00/3,000		
SN74LVC2G132DCUR	296-18802-1-ND	Dual 2-Input NAND Gate	8-VSSOP	.48	.36	.27
SN74LVC2G132DCUR	296-18802-2-ND	Dual 2-Input NAND Gate	8-VSSOP	468.00/3,000		
SN74LVC2G132YEPR	296-17729-1-ND	Dual 2-Input NAND Gate	8-DSBGA	.92	.69	.52
SN74LVC2G132YEPR	296-17729-2-ND	Dual 2-Input NAND Gate	8-DSBGA	897.00/3,000		
SN74LVC2G132YZPR	296-17504-1-ND	Dual 2-Input NAND Gate	8-DSBGA	.64	.48	.36
SN74LVC2G132YZPR	296-17504-2-ND	Dual 2-Input NAND Gate	8-DSBGA	624.00/3,000		
SN74LVC2G157DCTR	296-13266-1-ND	Single 2-1 Line Data Selector/Mux	8-SSOP	.48	.36	.27
SN74LVC2G157DCTR	296-13266-2-ND	Single 2-1 Line Data Selector/Mux	8-SSOP	468.00/3,000		
SN74LVC2G157DCUR	296-12605-1-ND	Single 2-1 Line Data Selector/Mux	8-VSSOP	.48	.36	.27

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVC2G157DCUR	296-12605-2-ND	Single 2-1 Line Data Selector/Mux	8-VSSOP		468.00/3,000	
SN74LVC2G157YEAR	296-13971-1-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	.92	.69	.52
SN74LVC2G157YEAR	296-13971-2-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA		897.00/3,000	
SN74LVC2G157YEPR	296-17997-1-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	.92	.69	.52
SN74LVC2G157YEPR	296-17997-2-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA		897.00/3,000	
SN74LVC2G157YZAR	296-15708-1-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	.92	.69	.52
SN74LVC2G157YZAR	296-15708-2-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA		897.00/3,000	
SN74LVC2G157YZPR	296-18804-1-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA	.58	.44	.33
SN74LVC2G157YZPR	296-18804-2-ND	Single 2-1 Line Data Selector/Mux	8-DSBGA		567.00/3,000	
SN74LVC2G240DCTR	296-15588-1-ND	Tri-State Dual Buffer/Driver	8-SSOP	.50	.38	.29
SN74LVC2G240DCTR	296-15588-2-ND	Tri-State Dual Buffer/Driver	8-SSOP		489.00/3,000	
SN74LVC2G240DCUR	296-13739-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.52	.39	.30
SN74LVC2G240DCUR	296-13739-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP		507.00/3,000	
SN74LVC2G240YEAR	296-15589-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G240YEAR	296-15589-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA		897.00/3,000	
SN74LVC2G240YEPR	296-18806-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G240YEPR	296-18806-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA		897.00/3,000	
SN74LVC2G240YZAR	296-15590-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G240YZAR	296-15590-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA		897.00/3,000	
SN74LVC2G240YZPR	296-18807-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.58	.44	.33
SN74LVC2G240YZPR	296-18807-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA		567.00/3,000	
SN74LVC2G241DCTR	296-11935-1-ND	Tri-State Dual Buffer/Driver	8-SSOP	.50	.38	.29
SN74LVC2G241DCTR	296-11935-2-ND	Tri-State Dual Buffer/Driver	8-SSOP		489.00/3,000	
SN74LVC2G241DCUR	296-11936-1-ND	Tri-State Dual Buffer/Driver	8-VSSOP	.52	.39	.30
SN74LVC2G241DCUR	296-11936-2-ND	Tri-State Dual Buffer/Driver	8-VSSOP		507.00/3,000	
SN74LVC2G241YEAR	296-15591-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G241YEAR	296-15591-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA		897.00/3,000	
SN74LVC2G241YEPR	296-15854-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G241YEPR	296-15854-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA		897.00/3,000	
SN74LVC2G241YZAR	296-15592-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.92	.69	.52
SN74LVC2G241YZAR	296-15592-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA		897.00/3,000	
SN74LVC2G241YZPR	296-15855-1-ND	Tri-State Dual Buffer/Driver	8-DSBGA	.58	.44	.33
SN74LVC2G241YZPR	296-15855-2-ND	Tri-State Dual Buffer/Driver	8-DSBGA		567.00/3,000	
SN74LVC2GU04DBVR	296-13276-1-ND	Dual Inverter Gate	SOT-23-6	.40	.32	.24
SN74LVC2GU04DBVR	296-13276-2-ND	Dual Inverter Gate	SOT-23-6		324.00/3,000	
SN74LVC2GU04DCKR	296-13277-1-ND	Dual Inverter Gate	SC70-6	.40	.32	.24
SN74LVC2GU04DCKR	296-13277-2-ND	Dual Inverter Gate	SC70-6		324.00/3,000	
SN74LVC2GU04YEAR	296-13742-1-ND	Dual Inverter Gate	6-DSBGA	.92	.69	.52
SN74LVC2GU04YEAR	296-13742-2-ND	Dual Inverter Gate	6-DSBGA		897.00/3,000	
SN74LVC2GU04YZAR	296-13743-1-ND	Dual Inverter Gate	6-DSBGA	.92	.69	.52
SN74LVC2GU04YZAR	296-13743-2-ND	Dual Inverter Gate	6-DSBGA		897.00/3,000	
SN74LVC2GU04YZPR	296-14376-1-ND	Dual Inverter Gate	6-DSBGA	.58	.44	.33
SN74LVC2GU04YZPR	296-14376-2-ND	Dual Inverter Gate	6-DSBGA		567.00/3,000	
SN74LVC2T45DCTR	296-16845-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-SSOP	.72	.54	.41
SN74LVC2T45DCTR	296-16845-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-SSOP		702.00/3,000	
SN74LVC2T45DCUR	296-17014-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-VSSOP	.72	.54	.41
SN74LVC2T45DCUR	296-17014-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-VSSOP		702.00/3,000	
SN74LVC2T45YEPR	296-17035-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-DSBGA	.84	.70	.56
SN74LVC2T45YEPR	296-17035-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-DSBGA		1092.00/3,000	
SN74LVC2T45YZPR	296-17036-1-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-DSBGA	.76	.57	.43
SN74LVC2T45YZPR	296-17036-2-ND	Tri-State Dual-Bit Dual Supply Bus Transceiver	8-DSBGA		741.00/3,000	
SN74LVC3G04DCTR	296-13278-1-ND	Triple Inverter Gate	8-SSOP	.60	.45	.34
SN74LVC3G04DCTR	296-13278-2-ND	Triple Inverter Gate	8-SSOP		585.00/3,000	
SN74LVC3G04DCUR	296-13279-1-ND	Triple Inverter Gate	8-VSSOP	.60	.45	.34
SN74LVC3G04DCUR	296-13279-2-ND	Triple Inverter Gate	8-VSSOP		585.00/3,000	
SN74LVC3G04YEAR	296-14043-1-ND	Triple Inverter Gate	8-DSBGA	.81	.68	.54
SN74LVC3G04YEAR	296-14043-2-ND	Triple Inverter Gate	8-DSBGA		1053.00/3,000	
SN74LVC3G04YZAR	296-15710-1-ND	Triple Inverter Gate	8-DSBGA	.81	.68	.54
SN74LVC3G04YZAR	296-15710-2-ND	Triple Inverter Gate	8-DSBGA		1053.00/3,000	
SN74LVC3G04YZPR	296-15110-1-ND	Triple Inverter Gate	8-DSBGA	.72	.54	.41
SN74LVC3G04YZPR	296-15110-2-ND	Triple Inverter Gate	8-DSBGA		702.00/3,000	
SN74LVC3G06DCTR	296-13280-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-SSOP	.60	.45	.34
SN74LVC3G06DCTR	296-13280-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-SSOP		585.00/3,000	
SN74LVC3G06DCUR	296-13281-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-VSSOP	.60	.45	.34
SN74LVC3G06DCUR	296-13281-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-VSSOP		585.00/3,000	
SN74LVC3G06YEAR	296-15598-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	.81	.68	.54
SN74LVC3G06YEAR	296-15598-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA		1053.00/3,000	
SN74LVC3G06YEPR	296-18814-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	.81	.68	.54
SN74LVC3G06YEPR	296-18814-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA		1053.00/3,000	
SN74LVC3G06YZPR	296-18815-1-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA	.72	.54	.41
SN74LVC3G06YZPR	296-18815-2-ND	Triple Inverter Buffer/Driver with Open Drain Outputs	8-DSBGA		702.00/3,000	
SN74LVC3G07DCTR	296-13282-1-ND	Triple Buffer/Driver with OD Outputs	8-SSOP	.60	.45	.34
SN74LVC3G07DCTR	296-13282-2-ND	Triple Buffer/Driver with OD Outputs	8-SSOP		585.00/3,000	
SN74LVC3G07DCUR	296-13283-1-ND	Triple Buffer/Driver with OD Outputs	8-VSSOP	.60	.45	.34
SN74LVC3G07DCUR	296-13283-2-ND	Triple Buffer/Driver with OD Outputs	8-VSSOP		585.00/3,000	
SN74LVC3G07YEAR	296-14044-1-ND	Triple Buffer/Driver with OD Outputs	8-DSBGA	.81	.68	.54
SN74LVC3G07YEAR	296-14044-2-ND	Triple Buffer/Driver with OD Outputs	8-DSBGA		1053.00/3,000	
SN74LVC3G07YZAR	296-15711-1-ND	Triple Buffer/Driver with OD Outputs	8-DSBGA	.81	.68	.54
SN74LVC3G07YZAR	296-15711-2-ND	Triple Buffer/Driver with OD Outputs	8-DSBGA		1053.00/3,000	
SN74LVC3G14DCTR	296-13284-1-ND	Triple Schmitt-Trigger Inverter	8-SSOP	.60	.45	.34
SN74LVC3G14DCTR	296-13284-2-ND	Triple Schmitt-Trigger Inverter	8-SSOP		585.00/3,000	
SN74LVC3G14DCUR	296-13006-1-ND	Triple Schmitt-Trigger Inverter	8-VSSOP	.60	.45	.34
SN74LVC3G14DCUR	296-13006-2-ND	Triple Schmitt-Trigger Inverter	8-VSSOP		585.00/3,000	
SN74LVC3G14YEAR	296-14045-1-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	.81	.68	.54
SN74LVC3G14YEAR	296-14045-2-ND	Triple Schmitt-Trigger Inverter	8-DSBGA		1053.00/3,000	
SN74LVC3G14YEPR	296-18816-1-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	.81	.68	.54
SN74LVC3G14YEPR	296-18816-2-ND	Triple Schmitt-Trigger Inverter	8-DSBGA		1053.00/3,000	

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVC3G14YZPR	296-18817-1-ND	Triple Schmitt-Trigger Inverter	8-DSBGA	.72	.54	.41
SN74LVC3G14YZPR	296-18817-2-ND	Triple Schmitt-Trigger Inverter	8-DSBGA		702.00/3,000	
SN74LVC3G17DCTR	296-16915-1-ND	Triple Schmitt-Trigger Buffer	8-SSOP	.60	.45	.34
SN74LVC3G17DCTR	296-16915-2-ND	Triple Schmitt-Trigger Buffer	8-SSOP		585.00/3,000	
SN74LVC3G17DCUR	296-18818-1-ND	Triple Schmitt-Trigger Buffer	8-VSSOP	.60	.45	.34
SN74LVC3G17DCUR	296-18818-2-ND	Triple Schmitt-Trigger Buffer	8-VSSOP		585.00/3,000	
SN74LVC3G17YZPR	296-18819-1-ND	Triple Schmitt-Trigger Buffer	8-DSBGA	.72	.54	.41
SN74LVC3G17YZPR	296-18819-2-ND	Triple Schmitt-Trigger Buffer	8-DSBGA		702.00/3,000	
SN74LVC3G34DCTR	296-13285-1-ND	Triple Buffer Gate	8-SSOP	.60	.45	.34
SN74LVC3G34DCTR	296-13285-2-ND	Triple Buffer Gate	8-SSOP		585.00/3,000	
SN74LVC3G34DCUR	296-13286-1-ND	Triple Buffer Gate	8-VSSOP	.60	.45	.34
SN74LVC3G34DCUR	296-13286-2-ND	Triple Buffer Gate	8-VSSOP		585.00/3,000	
SN74LVC3G34YEAR	296-14046-1-ND	Triple Buffer Gate	8-DSBGA	.81	.68	.54
SN74LVC3G34YEAR	296-14046-2-ND	Triple Buffer Gate	8-DSBGA		1053.00/3,000	
SN74LVC3G34YZPR	296-15111-1-ND	Triple Buffer Gate	8-DSBGA	.72	.54	.41
SN74LVC3G34YZPR	296-15111-2-ND	Triple Buffer Gate	8-DSBGA		702.00/3,000	
SN74LVC3GU04DCTR	296-18820-1-ND	Triple Inverter Gate	8-SSOP	.80	.60	.45
SN74LVC3GU04DCTR	296-18820-2-ND	Triple Inverter Gate	8-SSOP		780.00/3,000	
SN74LVC3GU04DCUR	296-18821-1-ND	Triple Inverter Gate	8-VSSOP	.80	.60	.45
SN74LVC3GU04DCUR	296-18821-2-ND	Triple Inverter Gate	8-VSSOP		780.00/3,000	
SN74LVC3GU04YEPR	296-16823-1-ND	Triple Inverter Gate	8-DSBGA	.81	.68	.54
SN74LVC3GU04YEPR	296-16823-2-ND	Triple Inverter Gate	8-DSBGA		1053.00/3,000	
SN74LVC3GU04YZPR	296-16824-1-ND	Triple Inverter Gate	8-DSBGA	.72	.54	.41
SN74LVC3GU04YZPR	296-16824-2-ND	Triple Inverter Gate	8-DSBGA		702.00/3,000	
SN74LVC8T245DGVR	296-19287-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-TVSOP	1.05	.88	.70
SN74LVC8T245DGVR	296-19287-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-TVSOP		932.00/2,000	
SN74LVC8T245RHLR	296-18595-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-QFN	1.17	.98	.78
SN74LVC8T245RHLR	296-18595-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-QFN		519.00/1,000	
SN74LVC8T245PWR	296-18593-1-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-TSSOP	4.20	3.15	2.28
SN74LVC8T245PWR	296-18593-2-ND	Tri-State 8-Bit Dual Supply Bus Transceiver ***NEW!***	24-TSSOP		1890.00/2,000	
SN74LVC00AD	296-1694-5-ND	Quad 2-Input NAND Gate	14-SOIC	.49	.40	.27
SN74LVC00ADR	296-1694-1-ND	Quad 2-Input NAND Gate	14-SOIC	.49	.40	.27
SN74LVC00ADR	296-1694-2-ND	Quad 2-Input NAND Gate	14-SOIC		320.00/2,500	
SN74LVC00ADBR	296-8430-1-ND	Quad 2-Input NAND Gate	14-SSOP	.49	.40	.27
SN74LVC00ADBR	296-8430-2-ND	Quad 2-Input NAND Gate	14-SSOP		270.00/2,000	
SN74LVC00APWR	296-1216-1-ND	Quad 2-Input NAND Gate	14-TSSOP	.49	.40	.27
SN74LVC00APWR	296-1216-2-ND	Quad 2-Input NAND Gate	14-TSSOP		270.00/2,000	
SN74LVC00ARGYR	296-13954-1-ND	Quad 2-Input NAND Gate	14-QFN	.52	.39	.30
SN74LVC00ARGYR	296-13954-2-ND	Quad 2-Input NAND Gate	14-QFN		172.00/1,000	
SN74LVC02AD	296-8433-5-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.40	.27
SN74LVC02ADR	296-8433-1-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.40	.27
SN74LVC02ADR	296-8433-2-ND	Quad 2-Input NOR Gate	14-SOIC		320.00/2,500	
SN74LVC02ADBR	296-8432-1-ND	Quad 2-Input NOR Gate	14-SSOP	.51	.41	.29
SN74LVC02ADBR	296-8432-2-ND	Quad 2-Input NOR Gate	14-SSOP		280.00/2,000	
SN74LVC02APWR	296-8434-1-ND	Quad 2-Input NOR Gate	14-TSSOP	.40	.32	.24
SN74LVC02APWR	296-8434-2-ND	Quad 2-Input NOR Gate	14-TSSOP		224.00/2,000	
SN74LVC02ARGYR	296-13955-1-ND	Quad 2-Input NOR Gate	14-QFN	.60	.45	.34
SN74LVC02ARGYR	296-13955-2-ND	Quad 2-Input NOR Gate	14-QFN		200.00/1,000	
SN74LVC04AD	296-1218-5-ND	Hex Inverter	14-SOIC	.49	.40	.27
SN74LVC04ADR	296-1218-1-ND	Hex Inverter	14-SOIC	.49	.40	.27
SN74LVC04ADR	296-1218-2-ND	Hex Inverter	14-SOIC		320.00/2,500	
SN74LVC04ADBR	296-1217-1-ND	Hex Inverter	14-SSOP	.49	.40	.27
SN74LVC04ADBR	296-1217-2-ND	Hex Inverter	14-SSOP		270.00/2,000	
SN74LVC04ADGVR	296-8435-1-ND	Hex Inverter	14-TVSOP	.55	.44	.33
SN74LVC04ADGVR	296-8435-2-ND	Hex Inverter	14-TVSOP		308.00/2,000	
SN74LVC04APWR	296-1219-1-ND	Hex Inverter	14-TSSOP	.49	.40	.27
SN74LVC04APWR	296-1219-2-ND	Hex Inverter	14-TSSOP		270.00/2,000	
SN74LVC04AQDREP	296-18126-1-ND	Hex Inverter	14-SOIC	1.28	1.02	.77
SN74LVC04AQDREP	296-18126-2-ND	Hex Inverter	14-SOIC		1632.50/2,500	
SN74LVC04ARGYR	296-13956-1-ND	Hex Inverter	14-QFN	.52	.39	.30
SN74LVC04ARGYR	296-13956-2-ND	Hex Inverter	14-QFN		173.00/1,000	
SN74LVC06AD	296-1696-5-ND	Hex Inverter Buffer/Driver with OD	14-SOIC	.49	.40	.27
SN74LVC06ADBR	296-14399-1-ND	Hex Inverter Buffer/Driver with OD	14-SSOP	.40	.32	.24
SN74LVC06ADBR	296-14399-2-ND	Hex Inverter Buffer/Driver with OD	14-SSOP		224.00/2,000	
SN74LVC06ADR	296-14905-1-ND	Hex Inverter Buffer/Driver with OD	14-SOIC	.49	.40	.27
SN74LVC06ADR	296-14905-2-ND	Hex Inverter Buffer/Driver with OD	14-SOIC		320.00/2,500	
SN74LVC06ADGVR	296-8436-1-ND	Hex Inverter Buffer/Driver with OD	14-TVSOP	.60	.45	.34
SN74LVC06ADGVR	296-8436-2-ND	Hex Inverter Buffer/Driver with OD	14-TVSOP		400.00/2,000	
SN74LVC06APWR	296-8437-1-ND	Hex Inverter Buffer/Driver with OD	14-TSSOP	.49	.40	.27
SN74LVC06APWR	296-8437-2-ND	Hex Inverter Buffer/Driver with OD	14-TSSOP		270.00/2,000	
SN74LVC06ARGYR	296-13957-1-ND	Hex Inverter Buffer/Driver with OD	14-QFN	.60	.45	.34
SN74LVC06ARGYR	296-13957-2-ND	Hex Inverter Buffer/Driver with OD	14-QFN		200.00/1,000	
SN74LVC07AD	296-8441-5-ND	Hex Buffer/Driver with OD	14-SOIC	.49	.40	.27
SN74LVC07ADR	296-8441-1-ND	Hex Buffer/Driver with OD	14-SOIC	.49	.40	.27
SN74LVC07ADR	296-8441-2-ND	Hex Buffer/Driver with OD	14-SOIC		320.00/2,500	
SN74LVC07ADBR	296-8439-1-ND	Hex Buffer/Driver with OD	14-SSOP	.51	.41	.29
SN74LVC07ADBR	296-8439-2-ND	Hex Buffer/Driver with OD	14-SSOP		280.00/2,000	
SN74LVC07ADGVR	296-8440-1-ND	Hex Buffer/Driver with OD	14-TVSOP	.56	.42	.32
SN74LVC07ADGVR	296-8440-2-ND	Hex Buffer/Driver with OD	14-TVSOP		372.00/2,000	
SN74LVC07APWR	296-8442-1-ND	Hex Buffer/Driver with OD	14-TSSOP	.49	.40	.27
SN74LVC07APWR	296-8442-2-ND	Hex Buffer/Driver with OD	14-TSSOP		270.00/2,000	
SN74LVC07ARGYR	296-13958-1-ND	Hex Buffer/Driver with OD	14-QFN	.60	.45	.34
SN74LVC07ARGYR	296-13958-2-ND	Hex Buffer/Driver with OD	14-QFN		200.00/1,000	
SN74LVC08AD	296-1697-5-ND	Quad 2-Input AND Gate	14-SOIC	.49	.40	.27
SN74LVC08ADR	296-1697-1-ND	Quad 2-Input AND Gate	14-SOIC	.49	.40	.27
SN74LVC08ADR	296-1697-2-ND	Quad 2-Input AND Gate	14-SOIC		320.00/2,500	
SN74LVC08ADBR	296-1220-1-ND	Quad 2-Input AND Gate	14-SSOP	.49	.40	.27
SN74LVC08ADBR	296-1220-2-ND	Quad 2-Input AND Gate	14-SSOP		270.00/2,000	
SN74LVC08APWR	296-1221-1-ND	Quad 2-Input AND Gate	14-TSSOP	.49	.40	.27
SN74LVC08APWR	296-1221-2-ND	Quad 2-Input AND Gate	14-TSSOP		270.00/2,000	
SN74LVC08ARGYR	296-13959-1-ND	Quad 2-Input AND Gate	14-QFN	.50	.38	.29
SN74LVC08ARGYR	296-13959-2-ND	Quad 2-Input AND Gate	14-QFN		166.00/1,000	
SN74LVC10AD	296-8443-5-ND	Triple 3-Input NAND Gate	14-SOP	.45	.36	.27
SN74LVC10ADBR	296-8444-1-ND	Triple 3-Input NAND Gate	14-SSOP	.45	.36	.27
SN74LVC10ADBR	296-8444-2-ND	Triple 3-Input NAND Gate	14-SSOP		252.00/2,000	
SN74LVC10APWR	296-8445-1-ND	Triple 3-Input NAND Gate	14-TSSOP	.45	.36	.27

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC10APWR	296-8445-2-ND	Triple 3-Input NAND Gate	14-TSSOP		252.00/2,000	
SN74LVC10ARGYR	296-13960-1-ND	Triple 3-Input NAND Gate	14-QFN	.66	.50	.38
SN74LVC10ARGYR	296-13960-2-ND	Triple 3-Input NAND Gate	14-QFN		219.00/1,000	
SN74LVC14AD	296-1699-5-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.49	.40	.27
SN74LVC14ADR	296-1699-1-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.49	.40	.27
SN74LVC14ADR	296-1699-2-ND	Hex Schmitt-Trigger Inverter	14-SOIC		320.00/2,500	
SN74LVC14ADBR	296-8463-1-ND	Hex Schmitt-Trigger Inverter	14-SSOP	.49	.40	.27
SN74LVC14ADBR	296-8463-2-ND	Hex Schmitt-Trigger Inverter	14-SSOP		270.00/2,000	
SN74LVC14ADGVR	296-8464-1-ND	Hex Schmitt-Trigger Inverter	14-TVSOP	.55	.44	.33
SN74LVC14ADGVR	296-8464-2-ND	Hex Schmitt-Trigger Inverter	14-TVSOP		308.00/2,000	
SN74LVC14APWR	296-1224-1-ND	Hex Schmitt-Trigger Inverter	14-TSSOP	.49	.40	.27
SN74LVC14APWR	296-1224-2-ND	Hex Schmitt-Trigger Inverter	14-TSSOP		270.00/2,000	
SN74LVC14AQDREP	296-19596-1-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-SOIC	.48	.36	.27
SN74LVC14AQDREP	296-19596-2-ND	Hex Schmitt-Trigger Inverter ***NEW!***	14-SOIC		390.00/2,500	
SN74LVC14ARGYR	296-13965-1-ND	Hex Schmitt-Trigger Inverter	14-QFN	.52	.39	.30
SN74LVC14ARGYR	296-13965-2-ND	Hex Schmitt-Trigger Inverter	14-QFN		173.00/1,000	
SN74LVC32AD	296-1235-5-ND	Quad 2-Input OR Gate	14-SOIC	.49	.40	.27
SN74LVC32ADR	296-1235-1-ND	Quad 2-Input OR Gate	14-SOIC	.49	.40	.27
SN74LVC32ADR	296-1235-2-ND	Quad 2-Input OR Gate	14-SOIC		320.00/2,500	
SN74LVC32ADBR	296-1234-1-ND	Quad 2-Input OR Gate	14-SSOP	.49	.40	.27
SN74LVC32ADBR	296-1234-2-ND	Quad 2-Input OR Gate	14-SSOP		270.00/2,000	
SN74LVC32APWR	296-1236-1-ND	Quad 2-Input OR Gate	14-TSSOP	.49	.40	.27
SN74LVC32APWR	296-1236-2-ND	Quad 2-Input OR Gate	14-TSSOP		270.00/2,000	
SN74LVC32ARGYR	296-13819-1-ND	Quad 2-Input Positive OR Gate	14-QFN	.50	.38	.29
SN74LVC32ARGYR	296-13819-2-ND	Quad 2-Input Positive OR Gate	14-QFN		166.00/1,000	
SN74LVC74AD	296-1240-5-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	.49	.40	.27
SN74LVC74ADR	296-1240-1-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC	.49	.40	.27
SN74LVC74ADR	296-1240-2-ND	Tri-State Dual D-Type Flip-Flop	14-SOIC		320.00/2,500	
SN74LVC74ADBR	296-1239-1-ND	Tri-State Dual D-Type Flip-Flop	14-SSOP	.49	.40	.27
SN74LVC74ADBR	296-1239-2-ND	Tri-State Dual D-Type Flip-Flop	14-SSOP		270.00/2,000	
SN74LVC74APWR	296-1241-1-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	.49	.40	.27
SN74LVC74APWR	296-1241-2-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP		270.00/2,000	
SN74LVC74AQPWRQ1	296-17492-1-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP	.44	.36	.27
SN74LVC74AQPWRQ1	296-17492-2-ND	Tri-State Dual D-Type Flip-Flop	14-TSSOP		246.00/2,000	
SN74LVC74ARGYR	296-13977-1-ND	Tri-State Dual D-Type Flip-Flop	14-QFN	.60	.45	.34
SN74LVC74ARGYR	296-13977-2-ND	Tri-State Dual D-Type Flip-Flop	14-QFN		200.00/1,000	
SN74LVC86AD	296-8561-5-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.49	.40	.27
SN74LVC86ADBR	296-8562-1-ND	Quad 2-Input Exclusive OR Gate	14-SSOP	.49	.40	.27
SN74LVC86ADBR	296-8562-2-ND	Quad 2-Input Exclusive OR Gate	14-SSOP		270.00/2,000	
SN74LVC86ADR	296-14915-1-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.49	.40	.27
SN74LVC86ADR	296-14915-2-ND	Quad 2-Input Exclusive OR Gate	14-SOIC		320.00/2,500	
SN74LVC86APWR	296-1242-1-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.49	.40	.27
SN74LVC86APWR	296-1242-2-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP		270.00/2,000	
SN74LVC86ARGYR	296-13978-1-ND	Quad 2-Input Exclusive OR Gate	14-QFN	.56	.42	.32
SN74LVC86ARGYR	296-13978-2-ND	Quad 2-Input Exclusive OR Gate	14-QFN		186.00/1,000	
SN74LVC112AD	296-8449-5-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOIC	.72	.54	.41
SN74LVC112ADR	296-8449-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOIC	.72	.54	.41
SN74LVC112ADR	296-8449-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SOIC		585.00/2,500	
SN74LVC112ADBR	296-8447-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SSOP	.72	.54	.41
SN74LVC112ADBR	296-8447-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-SSOP		478.00/2,000	
SN74LVC112ADGVR	296-8448-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TVSOP	.72	.54	.41
SN74LVC112ADGVR	296-8448-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TVSOP		478.00/2,000	
SN74LVC112APWR	296-8450-1-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TSSOP	.72	.54	.41
SN74LVC112APWR	296-8450-2-ND	Dual Neg-Edge-Trig JK Flip-Flop with Clear/Preset	16-TSSOP		478.00/2,000	
SN74LVC125AD	296-8453-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.45	.36	.27
SN74LVC125ADR	296-8453-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.45	.36	.27
SN74LVC125ADR	296-8453-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		305.00/2,500	
SN74LVC125ADBR	296-8452-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.43	.34	.26
SN74LVC125ADBR	296-8452-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		238.00/2,000	
SN74LVC125ANSR	296-13234-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.43	.34	.26
SN74LVC125ANSR	296-13234-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP		238.00/2,000	
SN74LVC125APWR	296-1222-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.45	.36	.27
SN74LVC125APWR	296-1222-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		252.00/2,000	
SN74LVC125ARGYR	296-13961-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.66	.50	.38
SN74LVC125ARGYR	296-13961-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN		219.00/1,000	
SN74LVC126AD	296-8457-5-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.43	.34	.26
SN74LVC126ADR	296-8457-1-ND	Tri-State Quad Bus Buffer Gate	14-SOIC	.43	.34	.26
SN74LVC126ADR	296-8457-2-ND	Tri-State Quad Bus Buffer Gate	14-SOIC		287.50/2,500	
SN74LVC126ADBR	296-8455-1-ND	Tri-State Quad Bus Buffer Gate	14-SSOP	.43	.34	.26
SN74LVC126ADBR	296-8455-2-ND	Tri-State Quad Bus Buffer Gate	14-SSOP		238.00/2,000	
SN74LVC126ADGVR	296-8456-1-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP	.52	.39	.30
SN74LVC126ADGVR	296-8456-2-ND	Tri-State Quad Bus Buffer Gate	14-TVSOP		346.00/2,000	
SN74LVC126ANSR	296-13701-1-ND	Tri-State Quad Bus Buffer Gate	14-SOP	.43	.34	.26
SN74LVC126ANSR	296-13701-2-ND	Tri-State Quad Bus Buffer Gate	14-SOP		238.00/2,000	
SN74LVC126APWR	296-8458-1-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP	.55	.44	.33
SN74LVC126APWR	296-8458-2-ND	Tri-State Quad Bus Buffer Gate	14-TSSOP		308.00/2,000	
SN74LVC126ARGYR	296-13962-1-ND	Tri-State Quad Bus Buffer Gate	14-QFN	.66	.50	.38
SN74LVC126ARGYR	296-13962-2-ND	Tri-State Quad Bus Buffer Gate	14-QFN		219.00/1,000	
SN74LVC138AD	296-8459-5-ND	3-8 Line Decoder/Demux	16-SOIC	.45	.36	.27
SN74LVC138ADBR	296-8460-1-ND	3-8 Line Decoder/Demux	16-SSOP	.45	.36	.27
SN74LVC138ADBR	296-8460-2-ND	3-8 Line Decoder/Demux	16-SSOP		252.00/2,000	
SN74LVC138ADGVR	296-13235-1-ND	3-8 Line Decoder/Demux	16-TVSOP	.66	.50	.38
SN74LVC138ADGVR	296-13235-2-ND	3-8 Line Decoder/Demux	16-TVSOP		438.00/2,000	
SN74LVC138ADR	296-14906-1-ND	3-8 Line Decoder/Demux	16-SOIC	.45	.36	.27
SN74LVC138ADR	296-14906-2-ND	3-8 Line Decoder/Demux	16-SOIC		305.00/2,500	
SN74LVC138AGQNR	296-12096-1-ND	3-8 Line Decoder/Demux	20-BGA	.75	.63	.50
SN74LVC138AGQNR	296-12096-2-ND	3-8 Line Decoder/Demux	20-BGA		333.00/1,000	
SN74LVC138APWR	296-1223-1-ND	3-8 Line Decoder/Demux	16-TSSOP	.45	.36	.27
SN74LVC138APWR	296-1223-2-ND	3-8 Line Decoder/Demux	16-TSSOP		252.00/2,000	
SN74LVC138AQDRQ1	296-19474-1-ND	3-8 Line Decoder/Demux ***NEW!***	16-SOIC	.53	.42	.32
SN74LVC138AQDRQ1	296-19474-2-ND	3-8 Line Decoder/Demux ***NEW!***	16-SOIC		355.00/2,500	
SN74LVC138ARGYR	296-13963-1-ND	3-8 Line Decoder/Demux	16-QFN	.66	.50	.38
SN74LVC138ARGYR	296-13963-2-ND	3-8 Line Decoder/Demux	16-QFN		219.00/1,000	
SN74LVC139AD	296-1698-5-ND	Dual 2-4 Line Decoder/Demux	16-SOIC	.48	.36	.27
SN74LVC139ADBR	296-8461-1-ND	Dual 2-4 Line Decoder/Demux	16-SSOP	.60	.45	.34
SN74LVC139ADBR	296-8461-2-ND	Dual 2-4 Line Decoder/Demux	16-SSOP		400.00/2,000	
SN74LVC139AGQNR	296-13236-1-ND	Dual 2-4 Line Decoder/Demux	16-VFBGA	.75	.63	.50
SN74LVC139AGQNR	296-13236-2-ND	Dual 2-4 Line Decoder/Demux	16-VFBGA		333.00/1,000	
SN74LVC139APWR	296-8462-1-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP	.45	.36	.27
SN74LVC139APWR	296-8462-2-ND	Dual 2-4 Line Decoder/Demux	16-TSSOP		252.00/2,000	
SN74LVC139ARGYR	296-13964-1-ND	Dual 2-4 Line Decoder/Demux	16-QFN	.72	.54	.41
SN74LVC139ARGYR	296-13964-2-ND	Dual 2-4 Line Decoder/Demux	16-QFN		239.00/1,000	
SN74LVC157AD	296-1700-5-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.55	.44	.33
SN74LVC157ADBR	296-8465-1-ND	Quad 2-1 Data Selector/Mux.	16-SSOP	.55	.44	.33
SN74LVC157ADBR	296-8465-2-ND	Quad 2-1 Data Selector/Mux	16-SSOP		308.00/2,000	
SN74LVC157ADR	296-14907-1-ND	Quad 2-1 Data Selector/Mux	16-SOIC	.55	.44	.33
SN74LVC157ADR	296-14907-2-ND	Quad 2-1 Data Selector/Mux	16-SOIC		372.50/2,500	
SN74LVC157APWR	296-1225-1-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	.55	.44	.33
SN74LVC157APWR	296-1225-2-ND	Quad 2-1 Data Selector/Mux	16-TSSOP		308.00/2,000	
SN74LVC157AQPWRQ1	296-17743-1-ND	Quad 2-1 Data Selector/Mux	16-TSSOP	.65	.52	.39
SN74LVC157AQPWRQ1	296-17743-2-ND	Quad 2-1 Data Selector/Mux	16-TSSOP		362.00/2,000	
SN74LVC157ARGYR	296-13966-1-ND	Quad 2-1 Data Selector/Mux	16-QFN	.66	.50	.38
SN74LVC157ARGYR	296-13966-2-ND	Quad 2-1 Data Selector/Mux	16-QFN		219.00/1,000	
SN74LVC240ADBR	296-8494-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.64	.48	.36
SN74LVC240ADBR	296-8494-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		426.00/2,000	
SN74LVC240ADGVR	296-8495-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.88	.66	.50
SN74LVC240ADGVR	296-8495-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		586.00/2,000	
SN74LVC240ADW	296-8496-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74LVC240ADWR	296-8496-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74LVC240ADWR	296-8496-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		400.00/2,000	
SN74LVC240ANSR	296-12902-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.64	.48	.36
SN74LVC240ANSR	296-12902-2-ND	Tri-State Octal Buffer/Driver	20-SOP		426.00/2,000	
SN74LVC240APWR	296-8498-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74LVC240APWR	296-8498-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		400.00/2,000	
SN74LVC244ADBR	296-8499-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.53	.42	.32
SN74LVC244ADBR	296-8499-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		294.00/2,000	
SN74LVC244ADGVR	296-8500-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.80	.60	.45
SN74LVC244ADGVR	296-8500-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		532.00/2,000	
SN74LVC244ADWR	296-1229-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.55	.44	.33
SN74LVC244ADWR	296-1229-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		308.00/2,000	
SN74LVC244AGQNR	296-12097-1-ND	Tri-State Octal Buffer/Driver	20-BGA	.75	.63	.50
SN74LVC244AGQNR	296-12097-2-ND	Tri-State Octal Buffer/Driver	20-BGA		333.00/1,000	
SN74LVC244AN	296-8501-5-ND	Tri-State Octal Buffer/Driver	20-Dip	.60	.45	.34
SN74LVC244ANSR	296-17115-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.55	.44	.33
SN74LVC244ANSR	296-17115-2-ND	Tri-State Octal Buffer/Driver	20-SOP		308.00/2,000	
SN74LVC244APWR	296-1230-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.55	.44	.33
SN74LVC244APWR	296-1230-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		308.00/2,000	
SN74LVC244ARGYR	296-13967-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.68	.51	.39
SN74LVC244ARGYR	296-13967-2-ND	Tri-State Octal Buffer/Driver	20-QFN		226.00/1,000	
SN74LVC245ADBR	296-1231-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.55	.44	.33
SN74LVC245ADBR	296-1231-2-ND	Tri-State Octal Bus Transceiver	20-SSOP		308.00/2,000	
SN74LVC245ADGVR	296-8502-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.80	.60	.45
SN74LVC245ADGVR	296-8502-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP		532.00/2,000	
SN74LVC245ADW	296-1232-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.55	.44	.33
SN74LVC245ADWR	296-1232-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.55	.44	.33
SN74LVC245ADWR	296-1232-2-ND	Tri-State Octal Bus Transceiver	20-SOIC		308.00/2,000	
SN74LVC245AGQNR	296-12098-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.75	.63	.50
SN74LVC245AGQNR	296-12098-2-ND	Tri-State Octal Bus Transceiver	20-BGA		333.00/1,000	
SN74LVC245AN	296-8503-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.60	.45	.34
SN74LVC245ANSR	296-13632-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.60	.45	.34
SN74LVC245ANSR	296-13632-2-ND	Tri-State Octal Bus Transceiver	20-SOP		400.00/2,000	
SN74LVC245APWR	296-1233-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.60	.45	.34
SN74LVC245APWR	296-1233-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP		400.00/2,000	
SN74LVC245ARGYR	296-13968-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.68	.51	.39
SN74LVC245ARGYR	296-13968-2-ND	Tri-State Octal Bus Transceiver	20-QFN		226.00/1,000	
SN74LVC257AD	296-8504-5-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.56	.42	.32
SN74LVC257ADBR	296-12903-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SSOP	.56	.42	.32
SN74LVC257ADBR	296-12903-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SSOP		372.00/2,000	
SN74LVC257ADR	296-8504-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.60	.45	.34
SN74LVC257ADR	296-8504-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC		487.50/2,500	
SN74LVC257APWR	296-8506-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-TSSOP	.56	.42	.32
SN74LVC257APWR	296-8506-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-TSSOP		372.00/2,000	
SN74LVC257AQDRQ1	296-18658-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC	.88	.71	.53
SN74LVC257AQDRQ1	296-18658-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-SOIC		595.00/2,500	
SN74LVC257ARGYR	296-13969-1-ND	Tri-State Quad 2-1 Data Selector/Mux	16-QFN	.68	.51	.39
SN74LVC257ARGYR	296-13969-2-ND	Tri-State Quad 2-1 Data Selector/Mux	16-QFN		226.00/1,000	
SN74LVC373ADBR	296-1237-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.48	.36	.27
SN74LVC373ADBR	296-1237-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP		320.00/2,000	
SN74LVC373ADGVR	296-8510-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.88	.66	.50
SN74LVC373ADGVR	296-8510-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP		586.00/2,000	
SN74LVC373ADW	296-8511-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.48	.36	.27
SN74LVC373ADWR	296-8511-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.48	.36	.27
SN74LVC373ADWR	296-8511-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC		320.00/2,000	
SN74LVC373AGQNR	296-12099-1-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	.90	.75	.60
SN74LVC373AGQNR	296-12099-2-ND	Tri-State Octal Transp. D-Type Latch	20-BGA		399.00/1,000	
SN74LVC373AN	296-12905-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.68	.51	.39
SN74LVC373APWR	296-8512-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.48	.36	.27
SN74LVC373APWR	296-8512-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP		320.00/2,000	
SN74LVC373ARGYR	296-13973-1-ND	Tri-State Octal Transp. D-Type Latch	20-QFN	.80	.60	.45
SN74LVC373ARGYR	296-13973-2-ND	Tri-State Octal Transp. D-Type Latch	20-QFN		266.00/1,000	
SN74LVC374ADBR	296-8513-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.48	.36	.27
SN74LVC374ADBR	296-8513-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP		320.00/2,000	
SN74LVC374ADGVR	296-12906-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.88	.66	.50
SN74LVC374ADGVR	296-12906-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP		586.00/2,000	
SN74LVC374ADW	296-1701-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74LVC374ADWR	296-1701-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74LVC374ADWR	296-1701-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		320.00/2,000	
SN74LVC374AN	296-12907-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.68	.51	.39
SN74LVC374APWR	296-1238-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74LVC374APWR	296-1238-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		320.00/2,000	
SN74LVC374ARGYR	296-14910-1-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	.68	.51	.39
SN74LVC374ARGYR	296-14910-2-ND	Tri-State Octal D-Type Flip-Flop	20-QFN		226.00/1,000	
SN74LVC540ADBR	296-8516-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.56	.42	.32
SN74LVC540ADBR	296-8516-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		372.00/2,000	

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC540ADGVR	296-12908-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.75	.63	.50
SN74LVC540ADGVR	296-12908-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		666.00/2,000	
SN74LVC540ADWR	296-8517-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.56	.42	.32
SN74LVC540ADWR	296-8517-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		372.00/2,000	
SN74LVC540APWR	296-12909-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.64	.48	.36
SN74LVC540APWR	296-12909-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		426.00/2,000	
SN74LVC541ADBR	296-8518-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.48	.36
SN74LVC541ADBR	296-8518-2-ND	Tri-State Octal Buffer/Driver	20-SSOP		336.00/2,000	
SN74LVC541ADGVR	296-8519-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.80	.60	.45
SN74LVC541ADGVR	296-8519-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		532.00/2,000	
SN74LVC541ADW	296-8520-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.48	.36
SN74LVC541ADWR	296-14912-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.48	.36	.27
SN74LVC541ADWR	296-14912-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		320.00/2,000	
SN74LVC541ANSR	296-15847-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.48	.36	.27
SN74LVC541ANSR	296-15847-2-ND	Tri-State Octal Buffer/Driver	20-SOP		320.00/2,000	
SN74LVC541APWR	296-8521-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.48	.36	.27
SN74LVC541APWR	296-8521-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		320.00/2,000	
SN74LVC541ARGYR	296-13974-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.88	.66	.50
SN74LVC541ARGYR	296-13974-2-ND	Tri-State Octal Buffer/Driver	20-QFN		293.00/1,000	
SN74LVC543ADBR	296-8522-1-ND	Tri-State Octal Registered Transceiver	24-SSOP	1.05	.88	.70
SN74LVC543ADBR	296-8522-2-ND	Tri-State Octal Registered Transceiver	24-SSOP		932.00/2,000	
SN74LVC543ADW	296-8523-5-ND	Tri-State Octal Registered Transceiver	24-SOIC	1.05	.88	.70
SN74LVC543APWR	296-8524-1-ND	Tri-State Octal Registered Transceiver	24-TSSOP	1.05	.88	.70
SN74LVC543APWR	296-8524-2-ND	Tri-State Octal Registered Transceiver	24-TSSOP		932.00/2,000	
SN74LVC573ADBR	296-8525-1-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP	.60	.48	.36
SN74LVC573ADBR	296-8525-2-ND	Tri-State Octal Transp. D-Type Latch	20-SSOP		336.00/2,000	
SN74LVC573ADGVR	296-8526-1-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP	.72	.54	.41
SN74LVC573ADGVR	296-8526-2-ND	Tri-State Octal Transp. D-Type Latch	20-TVSOP		478.00/2,000	
SN74LVC573ADW	296-8527-5-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.60	.48	.36
SN74LVC573ADWR	296-14913-1-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC	.48	.36	.27
SN74LVC573ADWR	296-14913-2-ND	Tri-State Octal Transp. D-Type Latch	20-SOIC		320.00/2,000	
SN74LVC573AGQNR	296-12100-1-ND	Tri-State Octal Transp. D-Type Latch	20-BGA	.90	.75	.60
SN74LVC573AGQNR	296-12100-2-ND	Tri-State Octal Transp. D-Type Latch	20-BGA		399.00/1,000	
SN74LVC573AN	296-8528-5-ND	Tri-State Octal Transp. D-Type Latch	20-Dip	.60	.45	.34
SN74LVC573APWR	296-8529-1-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP	.48	.36	.27
SN74LVC573APWR	296-8529-2-ND	Tri-State Octal Transp. D-Type Latch	20-TSSOP		320.00/2,000	
SN74LVC573ARGYR	296-13975-1-ND	Tri-State Octal Transp. D-Type Latch	20-QFN	.80	.60	.45
SN74LVC573ARGYR	296-13975-2-ND	Tri-State Octal Transp. D-Type Latch	20-QFN		266.00/1,000	
SN74LVC574ADBR	296-8530-1-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP	.60	.48	.36
SN74LVC574ADBR	296-8530-2-ND	Tri-State Octal D-Type Flip-Flop	20-SSOP		336.00/2,000	
SN74LVC574ADGVR	296-12475-1-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP	.72	.54	.41
SN74LVC574ADGVR	296-12475-2-ND	Tri-State Octal D-Type Flip-Flop	20-TVSOP		478.00/2,000	
SN74LVC574ADW	296-8531-5-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.48	.36
SN74LVC574ADWR	296-14914-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.48	.36	.27
SN74LVC574ADWR	296-14914-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC		320.00/2,000	
SN74LVC574AGQNR	296-12101-1-ND	Tri-State Octal D-Type Flip-Flop	20-BGA	.90	.75	.60
SN74LVC574AGQNR	296-12101-2-ND	Tri-State Octal D-Type Flip-Flop	20-BGA		399.00/1,000	
SN74LVC574AN	296-12910-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.60	.45	.34
SN74LVC574APWR	296-8532-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.48	.36	.27
SN74LVC574APWR	296-8532-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP		320.00/2,000	
SN74LVC574ARGYR	296-13976-1-ND	Tri-State Octal D-Type Flip-Flop	20-QFN	.68	.51	.39
SN74LVC574ARGYR	296-13976-2-ND	Tri-State Octal D-Type Flip-Flop	20-QFN		226.00/1,000	
SN74LVC646ADBR	296-8533-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.26	1.05	.84
SN74LVC646ADBR	296-8533-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP		1118.00/2,000	
SN74LVC646ADW	296-8534-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOIC	1.26	1.05	.84
SN74LVC646APWR	296-8535-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.26	1.05	.84
SN74LVC646APWR	296-8535-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP		1118.00/2,000	
SN74LVC652ADBR	296-8536-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.05	.88	.70
SN74LVC652ADBR	296-8536-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP		932.00/2,000	
SN74LVC652ADW	296-8537-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOIC	1.05	.88	.70
SN74LVC652APWR	296-8538-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.05	.88	.70
SN74LVC652APWR	296-8538-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP		932.00/2,000	
SN74LVC821ADBR	296-8539-1-ND	Tri-State 10-Bit Interface Flip-Flop	24-SSOP	.96	.80	.64
SN74LVC821ADBR	296-8539-2-ND	Tri-State 10-Bit Interface Flip-Flop	24-SSOP		852.00/2,000	
SN74LVC821ADGVR	296-8540-1-ND	Tri-State 10-Bit Interface Flip-Flop	24-TVSOP	.96	.80	.64
SN74LVC821ADGVR	296-8540-2-ND	Tri-State 10-Bit Interface Flip-Flop	24-TVSOP		852.00/2,000	
SN74LVC821ADW	296-1703-5-ND	Tri-State 10-Bit Interface Flip-Flop	24-SOIC	.96	.80	.64
SN74LVC821ADWR	296-1703-1-ND	Tri-State 10-Bit Bus-Interface Flip-Flop	24-SOIC	.96	.80	.64
SN74LVC821ADWR	296-1703-2-ND	Tri-State 10-Bit Bus-Interface Flip-Flop	24-SOIC		852.00/2,000	
SN74LVC821APWR	296-8541-1-ND	Tri-State 10-Bit Interface Flip-Flop	24-TSSOP	.96	.80	.64
SN74LVC821APWR	296-8541-2-ND	Tri-State 10-Bit Interface Flip-Flop	24-TSSOP		852.00/2,000	
SN74LVC823ADBR	296-8542-1-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SSOP	.75	.63	.50
SN74LVC823ADBR	296-8542-2-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SSOP		666.00/2,000	
SN74LVC823ADGVR	296-8543-1-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TVSOP	1.05	.88	.70
SN74LVC823ADGVR	296-8543-2-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TVSOP		932.00/2,000	
SN74LVC823ADW	296-12911-5-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-SOIC	.75	.63	.50
SN74LVC823APWR	296-8544-1-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TSSOP	.75	.63	.50
SN74LVC823APWR	296-8544-2-ND	Tri-State 9-Bit Bus-Interface Flip-Flop	24-TSSOP		666.00/2,000	
SN74LVC827ADBR	296-8545-1-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	1.11	.93	.74
SN74LVC827ADBR	296-8545-2-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP		984.00/2,000	
SN74LVC827ADGVR	296-8546-1-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	1.11	.93	.74
SN74LVC827ADGVR	296-8546-2-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP		984.00/2,000	
SN74LVC827ADW	296-8547-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.11	.93	.74
SN74LVC827APWR	296-8548-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	1.11	.93	.74
SN74LVC827APWR	296-8548-2-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP		984.00/2,000	
SN74LVC828ADBR	296-12912-1-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP	1.11	.93	.74
SN74LVC828ADBR	296-12912-2-ND	Tri-State 10-Bit Buffer/Driver	24-SSOP		984.00/2,000	
SN74LVC828ADGVR	296-12741-1-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP	1.11	.93	.74
SN74LVC828ADGVR	296-12741-2-ND	Tri-State 10-Bit Buffer/Driver	24-TVSOP		984.00/2,000	
SN74LVC828ADW	296-12913-5-ND	Tri-State 10-Bit Buffer/Driver	24-SOIC	1.11	.93	.74
SN74LVC828APWR	296-8549-1-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP	1.11	.93	.74
SN74LVC828APWR	296-8549-2-ND	Tri-State 10-Bit Buffer/Driver	24-TSSOP		984.00/2,000	
SN74LVC841ADBR	296-8550-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SSOP	1.70	1.36	1.02
SN74LVC841ADBR	296-8550-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SSOP		1768.00/2,000	
SN74LVC841ADGVR	296-8551-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TVSOP	1.70	1.36	1.02
SN74LVC841ADGVR	296-8551-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TVSOP		1768.00/2,000	
SN74LVC841ADW	296-8552-5-ND	Tri-St. 10-Bit Interface D-Type Latch	24-SOIC	1.70	1.36	1.02
SN74LVC841APWR	296-8553-1-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TSSOP	1.70	1.36	1.02
SN74LVC841APWR	296-8553-2-ND	Tri-St. 10-Bit Interface D-Type Latch	24-TSSOP		1768.00/2,000	
SN74LVC861ADBR	296-12914-1-ND	Tri-State 10-Bit Bus Transceiver	24-SSOP	2.05	1.64	1.23
SN74LVC861ADBR	296-12914-2-ND	Tri-State 10-Bit Bus Transceiver	24-SSOP		2132.00/2,000	
SN74LVC861ADGVR	296-8555-1-ND	Tri-State 10-Bit Bus Transceiver	24-TVSOP	2.05	1.64	1.23
SN74LVC861ADGVR	296-8555-2-ND	Tri-State 10-Bit Bus Transceiver	24-TVSOP		2132.00/2,000	
SN74LVC861ADW	296-8556-5-ND	Tri-State 10-Bit Bus Transceiver	24-SOIC	2.05	1.64	1.23
SN74LVC861APWR	296-12915-1-ND	Tri-State 10-Bit Bus Transceiver	24-TSSOP	2.05	1.64	1.23
SN74LVC861APWR	296-12915-2-ND	Tri-State 10-Bit Bus Transceiver	24-TSSOP		2132.00/2,000	
SN74LVC863ADBR	296-8557-1-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP	2.05	1.64	1.23
SN74LVC863ADBR	296-8557-2-ND	Tri-State 9-Bit Bus Transceiver	24-SSOP		2132.00/2,000	
SN74LVC863ADGVR	296-8558-1-ND	Tri-State 9-Bit Bus Transceiver	24-TVSOP	2.05	1.64	1.23
SN74LVC863ADGVR	296-8558-2-ND	Tri-State 9-Bit Bus Transceiver	24-TVSOP		2132.00/2,000	
SN74LVC863ADW	296-8559-5-ND	Tri-State 9-Bit Bus Transceiver	24-SOIC	2.05	1.64	1.23
SN74LVC863APWR	296-8560-1-ND	Tri-State 9-Bit Bus Transceiver	24-TSSOP	2.05	1.64	1.23
SN74LVC863APWR	296-8560-2-ND	Tri-State 9-Bit Bus Transceiver	24-TSSOP		2132.00/2,000	
SN74LVC1404DCTR	296-17257-1-ND	Oscillator Driver	8-SSOP	.81	.68	.54
SN74LVC1404DCTR	296-17257-2-ND	Oscillator Driver	8-SSOP		1053.00/3,000	
SN74LVC1404YEPR	296-18751-1-ND	Oscillator Driver	8-DSBGA	1.35	1.13	.90
SN74LVC1404YEPR	296-18751-2-ND	Oscillator Driver	8-DSBGA		1755.00/3,000	
SN74LVC1404YZPR	296-18082-1-ND	Oscillator Driver	8-DSBGA	.90	.75	.60
SN74LVC1404YZPR	296-18082-2-ND	Oscillator Driver	8-DSBGA		1170.00/3,000	
SN74LVC2244ADGVR	296-12901-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.80	.60	.45
SN74LVC2244ADGVR	296-12901-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP		532.00/2,000	
SN74LVC2244ADW	296-8490-5-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74LVC2244ADWR	296-8490-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.72	.54	.41
SN74LVC2244ADWR	296-8490-2-ND	Tri-State Octal Buffer/Driver	20-SOIC		478.00/2,000	
SN74LVC2244ANSR	296-13256-1-ND	Tri-State Octal Buffer/Driver	20-SOP	.60	.45	.34
SN74LVC2244ANSR	296-13256-2-ND	Tri-State Octal Buffer/Driver	20-SOP		400.00/2,000	
SN74LVC2244APWR	296-8491-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74LVC2244APWR	296-8491-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP		400.00/2,000	
SN74LVC2952ADBR	296-12904-1-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP	1.05	.88	.70
SN74LVC2952ADBR	296-12904-2-ND	Tri-St. Octal Bus Transceiver/Register	24-SSOP		932.00/2,000	
SN74LVC2952ADW	296-8507-5-ND	Tri-St. Octal Bus Transceiver/Register	24-SOIC	1.05	.88	.70
SN74LVC2952APWR	296-8508-1-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP	1.05	.88	.70
SN74LVC2952APWR	296-8508-2-ND	Tri-St. Octal Bus Transceiver/Register	24-TSSOP		932.00/2,000	
SN74LVC4245ADBR	296-8514-1-ND	Tri-St. Octal Bus Xcvr. 3.3V-5V Shifter	24-SSOP	.90	.75	.60
SN74LVC4245ADBR	296-8514-2-ND	Tri-St. Octal Bus Xcvr. 3.3V-5V Shifter	24-SSOP		798.00/2,000	
SN74LVC4245ADW	296-8515-5-ND	Tri-St. Octal Bus Xcvr. 3.3V-5V Shifter	24-SOIC	.90	.75	.60
SN74LVC4245ADWR	296-14911-1-ND	Tri-St. Octal Bus Xcvr. 3.3V-5V Shifter	24-SOIC	.90	.75	.60
SN74LVC4245ADWR	296-14911-2-ND	Tri-St. Octal Bus Xcvr. 3.3V-5V Shifter	24-SOIC		798.00/2,000	
SN74LVC4245APWR	296-12183-1-ND	Octal Tri-St. Xcvr. 3.3V-5V Shifter	24-TSSOP	.90	.75	.60
SN74LVC4245APWR	296-12183-2-ND	Octal Tri-St. Xcvr. 3.3V-5V Shifter	24-TSSOP		798.00/2,000	
SN74LVC16244ADGGR	296-1226-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.14	.95	.76
SN74LVC16244ADGGR	296-1226-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP		1010.00/2,000	
SN74LVC16244ADGVR	296-8471-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74LVC16244ADGVR	296-8471-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP		1508.00/2,000	
SN74LVC16244ADL	296-1227-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVC16244ADLR	296-1227-1-ND	16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVC16244ADLR	296-1227-2-ND	16-Bit Buffer/Driver	48-SSOP		505.00/1,000	
SN74LVC16244AGQLR	296-8472-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	2.70	2.16	1.68
SN74LVC16244AGQLR	296-8472-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA		1530.00/1,000	
SN74LVC16244AGRDR	296-16881-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	2.25	1.80	1.35
SN74LVC16244AGRDR	296-16881-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA		1170.00/1,000	
SN74LVC16244AZQLR	296-16642-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1.95	1.56	1.17
SN74LVC16244AZQLR	296-16642-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA		1014.00/1,000	
SN74LVC16244AZRDR	296-16882-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	1.45	1.16	.87
SN74LVC16244AZRDR	296-16882-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA		754.00/1,000	
SN74LVC16245ADGGR	296-1228-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.14	.95	.76
SN74LVC16245ADGGR	296-1228-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP		1010.00/2,000	
SN74LVC16245ADGVR	296-8473-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.45	1.16	.87
SN74LVC16245ADGVR	296-8473-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP		1508.00/2,000	
SN74LVC16245ADL	296-8474-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVC16245ADLR	296-8474-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVC16245ADLR	296-8474-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP		505.00/1,000	
SN74LVC16245AGQLR	296-9843-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.70	2.16	1.68
SN74LVC16245AGQLR	296-9843-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA		1530.00/1,000	
SN74LVC16245AGRDR	296-16883-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	2.25	1.80	1.35
SN74LVC16245AGRDR	296-16883-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA		1170.00/1,000	
SN74LVC16245AZRDR	296-16884-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	1.45	1.16	.87
SN74LVC16245AZRDR	296-16884-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA		754.00/1,000	
SN74LVC16373ADGGR	296-13241-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1.14	.95	.76
SN74LVC16373ADGGR	296-13241-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP		1010.00/2,000	
SN74LVC16373ADGVR	296-13242-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP	1.45	1.16	.87
SN74LVC16373ADGVR	296-13242-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TVSOP		1508.00/2,000	
SN74LVC16373ADLR	296-13243-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	1.14	.95	.76
SN74LVC16373ADLR	296-13243-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP		505.00/1,000	
SN74LVC16373AGQLR	296-13244-1-ND	Tri-State 16-Bit Transparent D-Type Latch	56-VFBGA	2.70	2.16	1.68
SN74LVC16373AGQLR	296-13244-2-ND	Tri-State 16-Bit Transparent D-Type Latch	56-VFBGA		1530.00/1,000	
SN74LVC16373DGGR	296-11848-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	1.14	.95	.76
SN74LVC16373DGGR	296-11848-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP		1010.00/2,000	
SN74LVC16373DL	296-11834-5-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	1.14	.95	.76
SN74LVC16373DLR	296-11834-1-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP	1.14	.95	.76
SN74LVC16373DLR	296-11834-2-ND	Tri-State 16-Bit Transparent D-Type Latch	48-SSOP		505.00/1,000	
SN74LVC16374ADGGR	296-13245-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1.14	.95	.76
SN74LVC16374ADGGR	296-13245-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP		1010.00/2,000	
SN74LVC16374ADGVR	296-13246-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP	1.45	1.16	.87
SN74LVC16374ADGVR	296-13246-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TVSOP		1508.00/2,000	
SN74LVC16374ADLR	296-13247-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1.14	.95	.76
SN74LVC16374ADLR	296-13247-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP		505.00/1,000	

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★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVC16374AGQLR	296-13248-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	2.70	2.16	1.68
SN74LVC16374AGQLR	296-13248-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	1530.00/1,000		
SN74LVC16374AGRDR	296-16885-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	2.25	1.80	1.35
SN74LVC16374AGRDR	296-16885-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	1170.00/1,000		
SN74LVC16374AZRDR	296-16886-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	1.45	1.16	.87
SN74LVC16374AZRDR	296-16886-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	754.00/1,000		
SN74LVC16374DGGR	296-11833-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1.14	.95	.76
SN74LVC16374DGGR	296-11833-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1010.00/2,000		
SN74LVC16374DLR	296-11851-1-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1.14	.95	.76
SN74LVC16374DLR	296-11851-2-ND	Tri-State 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	505.00/1,000		
SN74LVC16543DGGR	296-9844-1-ND	Tri-State 16-Bit Bus Transceiver	56-TSSOP	2.70	2.16	1.68
SN74LVC16543DGGR	296-9844-2-ND	Tri-State 16-Bit Bus Transceiver	56-TSSOP	3060.00/2,000		
SN74LVC16646ADGGR	296-15561-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TSSOP	1.63	1.30	.98
SN74LVC16646ADGGR	296-15561-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TSSOP	2535.00/3,000		
SN74LVC16646ADGVR	296-15562-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	1.63	1.30	.98
SN74LVC16646ADGVR	296-15562-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-TVSOP	1690.00/2,000		
SN74LVC16646ADLR	296-15563-1-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	1.63	1.30	.98
SN74LVC16646ADLR	296-15563-2-ND	Tri-St. 16-Bit Bus Transceiver/Register	56-SSOP	845.00/1,000		
SN74LVC32244GKER	296-8509-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	5.20	4.16	3.51
SN74LVC32244GKER	296-8509-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3250.00/1,000		
SN74LVC32245GKER	296-9855-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	5.20	4.16	3.51
SN74LVC32245GKER	296-9855-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3250.00/1,000		
SN74LVC32245ZKER	296-15336-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3.71	2.97	2.31
SN74LVC32245ZKER	296-15336-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2104.00/1,000		
SN74LVC32373AGKER	296-18812-1-ND	Tri-State 32-Bit Transparent D-Type Latch	96-LFBGA	5.20	4.16	3.51
SN74LVC32373AGKER	296-18812-2-ND	Tri-State 32-Bit Transparent D-Type Latch	96-LFBGA	3250.00/1,000		
SN74LVC32373AZKER	296-18813-1-ND	Tri-State 32-Bit Transparent D-Type Latch	96-LFBGA	3.71	2.97	2.31
SN74LVC32373AZKER	296-18813-2-ND	Tri-State 32-Bit Transparent D-Type Latch	96-LFBGA	2104.00/1,000		
SN74LVC32374AGKER	296-15596-1-ND	Tri-St. 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	5.20	4.16	3.51
SN74LVC32374AGKER	296-15596-2-ND	Tri-St. 32-Bit Edge-Triggered D-Type Flip-Flop	96-LFBGA	3250.00/1,000		
SN74LVC161284DGGR	296-8466-1-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1.41	1.18	.94
SN74LVC161284DGGR	296-8466-2-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1250.00/2,000		
SN74LVC161284DL	296-8467-5-ND	Tri-State 19-Bit Bus Interface	48-SSOP	1.41	1.18	.94
SN74LVC161284DLR	296-8467-1-ND	Tri-State 19-Bit Bus Interface	48-SSOP	1.41	1.18	.94
SN74LVC161284DLR	296-8467-2-ND	Tri-State 19-Bit Bus Interface	48-SSOP	625.00/1,000		
SN74LVC162244ADGGR	296-13237-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.14	.95	.76
SN74LVC162244ADGGR	296-13237-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1010.00/2,000		
SN74LVC162244ADGVR	296-13238-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74LVC162244ADGVR	296-13238-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1508.00/2,000		
SN74LVC162244ADLR	296-13239-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVC162244ADLR	296-13239-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	505.00/1,000		
SN74LVC162244AGQLR	296-13240-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	2.70	2.16	1.68
SN74LVC162244AGQLR	296-13240-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1530.00/1,000		

LVCC Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CLVCC3245AIDWREP	296-18096-1-ND	Tri-State Octal Bus Transceiver with Adjustable Output Voltage	24-SOIC	2.36	1.89	1.47
CLVCC3245AIDWREP	296-18096-2-ND	Tri-State Octal Bus Transceiver with Adjustable Output Voltage	24-SOIC	2678.00/2,000		
SN74LVCC3245ADBR	296-8563-1-ND	Tri-State Octal Bus Transceiver with Adjustable Output Voltage	24-SSOP	1.05	.88	.70
SN74LVCC3245ADBR	296-8563-2-ND	Tri-State Octal Bus Transceiver with Adjustable Output Voltage	24-SSOP	932.00/2,000		
SN74LVCC3245ADW	296-1704-5-ND	Tri-State Octal Bus Transceiver with Adjustable Output Voltage	24-SOIC	1.05	.88	.70
SN74LVCC3245ADWR	296-14916-1-ND	Tri-State Octal Bus Transceiver with Adjustable Output Voltage	24-SOIC	1.05	.88	.70
SN74LVCC3245ADWR	296-14916-2-ND	Tri-State Octal Bus Transceiver with Adjustable Output Voltage	24-SOIC	932.00/2,000		
SN74LVCC3245ANSR	296-17208-1-ND	Tri-State Octal Bus Transceiver with Adjustable Output Voltage	24-SOP	1.05	.88	.70
SN74LVCC3245ANSR	296-17208-2-ND	Tri-State Octal Bus Transceiver with Adjustable Output Voltage	24-SOP	932.00/2,000		
SN74LVCC3245APWR	296-8564-1-ND	Tri-State Octal Bus Transceiver with Adjustable Output Voltage	24-TSSOP	1.05	.88	.70
SN74LVCC3245APWR	296-8564-2-ND	Tri-State Octal Bus Transceiver with Adjustable Output Voltage	24-TSSOP	932.00/2,000		
SN74LVCC4245ADBR	296-8565-1-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SSOP	1.05	.88	.70
SN74LVCC4245ADBR	296-8565-2-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SSOP	932.00/2,000		
SN74LVCC4245ADW	296-8566-5-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SOIC	1.05	.88	.70
SN74LVCC4245ANSR	296-17209-1-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SOP	1.05	.88	.70
SN74LVCC4245ANSR	296-17209-2-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-SOP	932.00/2,000		
SN74LVCC4245APWR	296-8567-1-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-TSSOP	1.05	.88	.70
SN74LVCC4245APWR	296-8567-2-ND	Tri-State Octal Dual Bus Transceiver with Adjustable Output Voltage	24-TSSOP	932.00/2,000		

LVCE Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVCE161284DGGR	296-18822-1-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TSSOP	2.28	1.82	1.37
SN74LVCE161284DGGR	296-18822-2-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TSSOP	2366.00/2,000		
SN74LVCE161284DLR	296-16922-1-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-SSOP	2.28	1.82	1.37
SN74LVCE161284DLR	296-16922-2-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-SSOP	1183.00/1,000		
SN74LVCE161284VR	296-18824-1-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TVSOP	2.28	1.82	1.37
SN74LVCE161284VR	296-18824-2-ND	19-Bit IEEE STD 1284 Translation Transceiver	48-TVSOP	2366.00/2,000		

LVCH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVCH16T245ZQLR	296-18616-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	2.08	1.66	1.25
74LVCH16T245ZQLR	296-18616-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver	56-VFBGA	1079.00/1,000		
SN74LVCH16T245DGGR	296-19568-1-ND	Tri-State 16-Bit Dual Supply Bus Transceiver ***NEW!***	48-TSSOP	1.88	1.50	1.13
SN74LVCH16T245DGGR	296-19568-2-ND	Tri-State 16-Bit Dual Supply Bus Transceiver ***NEW!***	48-TSSOP	1950.00/2,000		
SN74LVCH16T245KR	296-18718-1-ND	16-Bit Dual-Supply Bus Transceiver	56-VFBGA	2.70	2.16	1.68
SN74LVCH16T245KR	296-18718-2-ND	16-Bit Dual-Supply Bus Transceiver	56-VFBGA	1530.00/1,000		
SN74LVCH244ADBR	296-8607-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	.60	.45	.34
SN74LVCH244ADBR	296-8607-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	400.00/2,000		
SN74LVCH244ADGVR	296-8608-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	.80	.60	.45
SN74LVCH244ADGVR	296-8608-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	532.00/2,000		
SN74LVCH244ADWR	296-14917-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	.60	.45	.34
SN74LVCH244ADWR	296-14917-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	400.00/2,000		
SN74LVCH244APWR	296-8610-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	.60	.45	.34
SN74LVCH244APWR	296-8610-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	400.00/2,000		
SN74LVCH244ARGYR	296-13979-1-ND	Tri-State Octal Buffer/Driver	20-QFN	.80	.60	.45
SN74LVCH244ARGYR	296-13979-2-ND	Tri-State Octal Buffer/Driver	20-QFN	266.00/1,000		
SN74LVCH245ADBR	296-8611-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.60	.45	.34
SN74LVCH245ADBR	296-8611-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	400.00/2,000		
SN74LVCH245ADGVR	296-8612-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.88	.66	.50
SN74LVCH245ADGVR	296-8612-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	586.00/2,000		
SN74LVCH245ADW	296-8613-5-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74LVCH245ADWR	296-14918-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.60	.45	.34
SN74LVCH245ADWR	296-14918-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	400.00/2,000		
SN74LVCH245AGQNR	296-12102-1-ND	Tri-State Octal Bus Transceiver	20-BGA	.90	.75	.60
SN74LVCH245AGQNR	296-12102-2-ND	Tri-State Octal Bus Transceiver	20-BGA	399.00/1,000		
SN74LVCH245APWR	296-1247-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.64	.48	.36
SN74LVCH245APWR	296-1247-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	426.00/2,000		
SN74LVCH245ARGYR	296-13980-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.75	.63	.50
SN74LVCH245ARGYR	296-13980-2-ND	Tri-State Octal Bus Transceiver	20-QFN	333.00/1,000		
SN74LVCH16240ADGGR	296-8571-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.14	.95	.76
SN74LVCH16240ADGGR	296-8571-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1010.00/2,000		
SN74LVCH16240ADLR	296-8572-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVCH16240ADLR	296-8572-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	505.00/1,000		
SN74LVCH16244ADGGR	296-8573-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.14	.95	.76
SN74LVCH16244ADGGR	296-8573-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1010.00/2,000		
SN74LVCH16244ADGVR	296-8574-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74LVCH16244ADGVR	296-8574-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1508.00/2,000		
SN74LVCH16244ADL	296-1243-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVCH16244ADLR	296-1243-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVCH16244ADLR	296-1243-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	505.00/1,000		
SN74LVCH16244AGQLR	296-8578-1-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	2.70	2.16	1.68
SN74LVCH16244AGQLR	296-8578-2-ND	Tri-State 16-Bit Buffer/Driver	56-VFBGA	1530.00/1,000		
SN74LVCH16244AGRDR	296-16887-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	2.25	1.80	1.35
SN74LVCH16244AGRDR	296-16887-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	1170.00/1,000		
SN74LVCH16244AZRDR	296-16888-1-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	1.45	1.16	.87
SN74LVCH16244AZRDR	296-16888-2-ND	Tri-State 16-Bit Buffer/Driver	54-BGA	754.00/1,000		
SN74LVCH16245ADGGR	296-1244-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.14	.95	.76
SN74LVCH16245ADGGR	296-1244-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1010.00/2,000		
SN74LVCH16245ADGVR	296-8580-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.14	.95	.76
SN74LVCH16245ADGVR	296-8580-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1010.00/2,000		
SN74LVCH16245ADL	296-1245-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVCH16245ADLR	296-1245-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVCH16245ADLR	296-1245-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	505.00/1,000		
SN74LVCH16245AGQLR	296-8582-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.70	2.16	1.68
SN74LVCH16245AGQLR	296-8582-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1530.00/1,000		
SN74LVCH16245AGRDR	296-16889-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	2.25	1.80	1.35
SN74LVCH16245AGRDR	296-16889-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	1170.00/1,000		
SN74LVCH16245AZRDR	296-16890-1-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	1.45	1.16	.87
SN74LVCH16245AZRDR	296-16890-2-ND	Tri-State 16-Bit Bus Transceiver	54-BGA	754.00/1,000		
SN74LVCH16373ADGGR	296-8583-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1.14	.95	.76
SN74LVCH16373ADGGR	296-8583-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TSSOP	1010.00/2,000		
SN74LVCH16373ADGVR	296-8584-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1.45	1.16	.87
SN74LVCH16373ADGVR	296-8584-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-TVSOP	1508.00/2,000		
SN74LVCH16373ADL	296-8585-5-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.14	.95	.76
SN74LVCH16373ADLR	296-8585-1-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	1.14	.95	.76
SN74LVCH16373ADLR	296-8585-2-ND	Tri-State 16-Bit Transp. D-Type Latch	48-SSOP	505.00/1,000		
SN74LVCH16373AGQLR	296-8586-1-ND	Tri-State 16-Bit Transp. D-Type Latch	56-VFBGA	2.70	2.16	1.68
SN74LVCH16373AGQLR	296-8586-2-ND	Tri-State 16-Bit Transp. D-Type Latch	56-VFBGA	1530.00/1,000		
SN74LVCH16374ADGGR	296-8587-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.14	.95	.76
SN74LVCH16374ADGGR	296-8587-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1010.00/2,000		
SN74LVCH16374ADGVR	296-8588-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1.45	1.16	.87
SN74LVCH16374ADGVR	296-8588-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TVSOP	1508.00/2,000		
SN74LVCH16374ADLR	296-8589-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	1.14	.95	.76
SN74LVCH16374ADLR	296-8589-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-SSOP	505.00/1,000		
SN74LVCH16374AGQLR	296-8590-1-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	2.70	2.16	1.68
SN74LVCH16374AGQLR	296-8590-2-ND	Tri-State 16-Bit D-Type Flip-Flop	56-VFBGA	1530.00/1,000		
SN74LVCH16540ADGGR	296-8591-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.48	1.98	1.54
SN74LVCH16540ADGGR	296-8591-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2806.00/2,000		
SN74LVCH16540ADGVR	296-8592-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.48	1.98	1.54
SN74LVCH16540ADGVR	296-8592-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2806.00/2,000		
SN74LVCH16540ADL	296-8593-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.48	1.98	1.54
SN74LVCH16541ADGGR	296-8594-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.35	1.13	.90
SN74LVCH16541ADGGR	296-8594-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1198.00/2,000		
SN74LVCH16541ADGVR	296-8595-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74LVCH16541ADGVR	296-8595-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1508.00/2,000		
SN74LVCH16541ADL	296-8596-5-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.35	1.13	.90
SN74LVCH16543ADGGR	296-1246-1-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1.25	1.00	.75
SN74LVCH16543ADGGR	296-1246-2-ND	Tri-State 16-Bit Registered Transceiver	56-TSSOP	1300.00/2,000		
SN74LVCH16543ADGVR	296-8597-1-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	1.65	1.32	.99
SN74LVCH16543ADGVR	296-8597-2-ND	Tri-State 16-Bit Registered Transceiver	56-TVSOP	1716.00/2,000		
SN74LVCH16543ADL	296-8598-5-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.65	1.32	.99
SN74LVCH16543ADLR	296-8598-1-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	1.65	1.32	.99

(Continued)

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T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
SN74LVCH16543ADLR	296-8598-2-ND	Tri-State 16-Bit Registered Transceiver	56-SSOP	858.00/1,000		
SN74LVCH16543AGQLR	296-13287-1-ND	Tri-State 16-Bit Registered Transceiver	56-VFBGA	2.70	2.16	1.68
SN74LVCH16543AGQLR	296-13287-2-ND	Tri-State 16-Bit Registered Transceiver	56-VFBGA	1530.00/1,000		
SN74LVCH16646ADGGR	296-8599-1-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	2.00	1.60	1.20
SN74LVCH16646ADGGR	296-8599-2-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	2080.00/2,000		
SN74LVCH16646ADGVR	296-9859-1-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	2.00	1.60	1.20
SN74LVCH16646ADGVR	296-9859-2-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	2080.00/2,000		
SN74LVCH16646ADL	296-8600-5-ND	Tri-State 16-Bit Transceiver/Register	56-SSOP	2.00	1.60	1.20
SN74LVCH16652ADGGR	296-8601-1-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	2.00	1.60	1.20
SN74LVCH16652ADGGR	296-8601-2-ND	Tri-State 16-Bit Transceiver/Register	56-TSSOP	2080.00/2,000		
SN74LVCH16652ADGVR	296-8602-1-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	2.00	1.60	1.20
SN74LVCH16652ADGVR	296-8602-2-ND	Tri-State 16-Bit Transceiver/Register	56-TVSOP	2080.00/2,000		
SN74LVCH16652ADL	296-8603-5-ND	Tri-State 16-Bit Transceiver/Register	56-SSOP	2.00	1.60	1.20
SN74LVCH16901DGGR	296-8604-1-ND	18-Bit Universal Bus Transceiver with Parity Gen/Checker	64-TSSOP	7.50	6.00	5.07
SN74LVCH16901DGGR	296-8604-2-ND	18-Bit Universal Bus Transceiver with Parity Gen/Checker	64-TSSOP	9376.00/2,000		
SN74LVCH16952ADGGR	296-8605-1-ND	Tri-State 16-Bit Register Transceiver	56-TSSOP	3.60	2.88	2.24
SN74LVCH16952ADGGR	296-8605-2-ND	Tri-State 16-Bit Register Transceiver	56-TSSOP	4080.00/2,000		
SN74LVCH16952ADGVR	296-12916-1-ND	Tri-State 16-Bit Register Transceiver	56-TVSOP	3.60	2.88	2.24
SN74LVCH16952ADGVR	296-12916-2-ND	Tri-State 16-Bit Register Transceiver	56-TVSOP	4080.00/2,000		
SN74LVCH16952ADL	296-8606-5-ND	Tri-State 16-Bit Register Transceiver	56-SSOP	3.60	2.88	2.24
SN74LVCH32244AGKER	296-8614-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	5.20	4.16	3.51
SN74LVCH32244AGKER	296-8614-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3250.00/1,000		
SN74LVCH32245AGKER	296-8615-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	5.20	4.16	3.51
SN74LVCH32245AGKER	296-8615-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3250.00/1,000		
SN74LVCH32373AGKER	296-8616-1-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-LFBGA	5.20	4.16	3.51
SN74LVCH32373AGKER	296-8616-2-ND	Tri-St. 32-Bit Transparent D-Type Latch	96-LFBGA	3250.00/1,000		
SN74LVCH32374AGKER	296-8617-1-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	5.20	4.16	3.51
SN74LVCH32374AGKER	296-8617-2-ND	Tri-State 32-Bit D-Type Flip-Flop	96-LFBGA	3250.00/1,000		
SN74LVCH162244ADLR	296-8568-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1.14	.95	.76
SN74LVCH162244ADLR	296-8568-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	505.00/1,000		
SN74LVCH162244AGR	296-8569-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.14	.95	.76
SN74LVCH162244AGR	296-8569-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1010.00/2,000		
SN74LVCH162244AVR	296-8570-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1.45	1.16	.87
SN74LVCH162244AVR	296-8570-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	1508.00/2,000		
SN74LVCH322244AKR	296-15599-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	5.20	4.16	3.51
SN74LVCH322244AKR	296-15599-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3250.00/1,000		

LVCHR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
74LVCHR32245AZKER	296-18354-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3.49	2.79	2.17
74LVCHR32245AZKER	296-18354-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	1976.00/1,000		
SN74LVCHR16245AGR	296-9860-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.14	.95	.76
SN74LVCHR16245AGR	296-9860-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1010.00/2,000		
SN74LVCHR16245AKR	296-14400-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.43	1.94	1.46
SN74LVCHR16245AKR	296-14400-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1261.00/1,000		
SN74LVCHR16245ALR	296-1248-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVCHR16245ALR	296-1248-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	505.00/1,000		
SN74LVCHR16245AVR	296-15600-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1.45	1.16	.87
SN74LVCHR16245AVR	296-15600-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	1508.00/2,000		
SN74LVCHR32245AKR	296-18825-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	4.05	3.24	2.52
SN74LVCHR32245AKR	296-18825-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2295.00/1,000		
SN74LVCHR162245ADL	296-8618-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76

LVCR Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74LVCR2245ADBR	296-8621-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74LVCR2245ADBR	296-8621-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	532.00/2,000		
SN74LVCR2245ADGVR	296-8622-1-ND	Tri-State Octal Bus Transceiver	20-TVSOP	.75	.63	.50
SN74LVCR2245ADGVR	296-8622-2-ND	Tri-State Octal Bus Transceiver	20-TVSOP	666.00/2,000		
SN74LVCR2245ADWR	296-8623-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LVCR2245ADWR	296-8623-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	532.00/2,000		
SN74LVCR2245AGQNR	296-12103-1-ND	Tri-State Octal Bus Transceiver	20-BGA	1.05	.88	.70
SN74LVCR2245AGQNR	296-12103-2-ND	Tri-State Octal Bus Transceiver	20-BGA	466.00/1,000		
SN74LVCR2245ANSR	296-13288-1-ND	Tri-State Octal Bus Transceiver	20-SOP	.80	.60	.45
SN74LVCR2245ANSR	296-13288-2-ND	Tri-State Octal Bus Transceiver	20-SOP	532.00/2,000		
SN74LVCR2245APWR	296-8624-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.80	.60	.45
SN74LVCR2245APWR	296-8624-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	532.00/2,000		
SN74LVCR2245ARGYR	296-13981-1-ND	Tri-State Octal Bus Transceiver	20-QFN	.75	.63	.50
SN74LVCR2245ARGYR	296-13981-2-ND	Tri-State Octal Bus Transceiver	20-QFN	333.00/1,000		
SN74LVCR16245ADGGR	296-15601-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.20	1.76	1.32
SN74LVCR16245ADGGR	296-15601-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2288.00/2,000		
SN74LVCR16245ADGVR	296-15602-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2.20	1.76	1.32
SN74LVCR16245ADGVR	296-15602-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2288.00/2,000		
SN74LVCR16245ADLR	296-15603-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2.20	1.76	1.32
SN74LVCR16245ADLR	296-15603-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1144.00/1,000		
SN74LVCR32245AGKER	296-15604-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	4.05	3.24	2.52
SN74LVCR32245AGKER	296-15604-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2295.00/1,000		
SN74LVCR162245DGGR	296-8619-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.14	.95	.76
SN74LVCR162245DGGR	296-8619-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1010.00/2,000		
SN74LVCR162245DL	296-8620-5-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1.14	.95	.76
SN74LVCR162245KR	296-12707-1-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	2.43	1.94	1.46
SN74LVCR162245KR	296-12707-2-ND	Tri-State 16-Bit Bus Transceiver	56-VFBGA	1261.00/1,000		

LVCU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74LVCU04AD	296-9861-5-ND	Hex Inverter	14-SOIC	.72	.54	.41
SN74LVCU04ADR	296-9861-1-ND	Hex Inverter	14-SOIC	.72	.54	.41
SN74LVCU04ADR	296-9861-2-ND	Hex Inverter	14-SOIC	585.00/2,500		
SN74LVCU04ADBR	296-9862-1-ND	Hex Inverter	14-SSOP	.72	.54	.41
SN74LVCU04ADBR	296-9862-2-ND	Hex Inverter	14-SSOP	478.00/2,000		
SN74LVCU04ADGVR	296-9863-1-ND	Hex Inverter	14-TVSOP	.72	.54	.41
SN74LVCU04ADGVR	296-9863-2-ND	Hex Inverter	14-TVSOP	478.00/2,000		
SN74LVCU04APWR	296-9865-1-ND	Hex Inverter	14-TSSOP	.72	.54	.41
SN74LVCU04APWR	296-9865-2-ND	Hex Inverter	14-TSSOP	478.00/2,000		

LVCZ Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74LVCZ240ADBR	296-9870-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	1.05	.88	.70
SN74LVCZ240ADBR	296-9870-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	932.00/2,000		
SN74LVCZ240ADGVR	296-9871-1-ND	Tri-State Octal Buffer/Driver	20-TVSOP	1.05	.88	.70
SN74LVCZ240ADGVR	296-9871-2-ND	Tri-State Octal Buffer/Driver	20-TVSOP	932.00/2,000		
SN74LVCZ240ADWR	296-9872-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.05	.88	.70
SN74LVCZ240ADWR	296-9872-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	932.00/2,000		
SN74LVCZ240ANSR	296-12993-1-ND	Tri-State Octal Buffer/Driver	20-SOP	1.05	.88	.70
SN74LVCZ240ANSR	296-12993-2-ND	Tri-State Octal Buffer/Driver	20-SOP	932.00/2,000		
SN74LVCZ240APW	296-9873-5-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVCZ240APWR	296-9873-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVCZ240APWR	296-9873-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	932.00/2,000		
SN74LVCZ244ADBR	296-9874-1-ND	Tri-State Octal Buffer/Driver	20-SSOP	1.05	.88	.70
SN74LVCZ244ADBR	296-9874-2-ND	Tri-State Octal Buffer/Driver	20-SSOP	932.00/2,000		
SN74LVCZ244ADWR	296-9875-1-ND	Tri-State Octal Buffer/Driver	20-SOIC	1.05	.88	.70
SN74LVCZ244ADWR	296-9875-2-ND	Tri-State Octal Buffer/Driver	20-SOIC	932.00/2,000		
SN74LVCZ244APW	296-9876-5-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVCZ244APWR	296-9876-1-ND	Tri-State Octal Buffer/Driver	20-TSSOP	1.05	.88	.70
SN74LVCZ244APWR	296-9876-2-ND	Tri-State Octal Buffer/Driver	20-TSSOP	932.00/2,000		
SN74LVCZ245ADBR	296-9877-1-ND	Tri-State Octal Bus Transceiver	20-SSOP	1.05	.88	.70
SN74LVCZ245ADBR	296-9877-2-ND	Tri-State Octal Bus Transceiver	20-SSOP	932.00/2,000		
SN74LVCZ245ADWR	296-9878-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	1.05	.88	.70
SN74LVCZ245ADWR	296-9878-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	932.00/2,000		
SN74LVCZ245APW	296-9879-5-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.05	.88	.70
SN74LVCZ245APWR	296-9879-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	1.05	.88	.70
SN74LVCZ245APWR	296-9879-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	932.00/2,000		
SN74LVCZ16240ADGGR	296-9866-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2.59	2.07	1.61
SN74LVCZ16240ADGGR	296-9866-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	2932.00/2,000		
SN74LVCZ16240ADGVR	296-15605-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.59	2.07	1.61
SN74LVCZ16240ADGVR	296-15605-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2932.00/2,000		
SN74LVCZ16240ADLR	296-9867-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.59	2.07	1.61
SN74LVCZ16240ADLR	296-9867-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1466.00/1,000		
SN74LVCZ16244ADGGR	296-9868-1-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1.38	1.10	.83
SN74LVCZ16244ADGGR	296-9868-2-ND	Tri-State 16-Bit Buffer/Driver	48-TSSOP	1430.00/2,000		
SN74LVCZ16244ADGVR	296-15606-1-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2.00	1.60	1.20
SN74LVCZ16244ADGVR	296-15606-2-ND	Tri-State 16-Bit Buffer/Driver	48-TVSOP	2080.00/2,000		
SN74LVCZ16244ADLR	296-9869-1-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	2.00	1.60	1.20
SN74LVCZ16244ADLR	296-9869-2-ND	Tri-State 16-Bit Buffer/Driver	48-SSOP	1040.00/1,000		
SN74LVCZ16245ADGGR	296-13289-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2.00	1.60	1.20
SN74LVCZ16245ADGGR	296-13289-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	2080.00/2,000		
SN74LVCZ16245ADGVR	296-13612-1-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2.00	1.60	1.20
SN74LVCZ16245ADGVR	296-13612-2-ND	Tri-State 16-Bit Bus Transceiver	48-TVSOP	2080.00/2,000		
SN74LVCZ16245ADLR	296-13290-1-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	2.00	1.60	1.20
SN74LVCZ16245ADLR	296-13290-2-ND	Tri-State 16-Bit Bus Transceiver	48-SSOP	1040.00/1,000		
SN74LVCZ32240AGKER	296-15607-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3.89	3.12	2.43
SN74LVCZ32240AGKER	296-15607-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2206.00/1,000		
SN74LVCZ32244AGKER	296-15608-1-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	3.89	3.12	2.43
SN74LVCZ32244AGKER	296-15608-2-ND	Tri-State 32-Bit Buffer/Driver	96-LFBGA	2206.00/1,000		
SN74LVCZ32245AGKER	296-15609-1-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	3.89	3.12	2.43
SN74LVCZ32245AGKER	296-15609-2-ND	Tri-State 32-Bit Bus Transceiver	96-LFBGA	2206.00/1,000		
SN74LVCZ161284AGR	296-12025-1-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1.75	1.40	1.05
SN74LVCZ161284AGR	296-12025-2-ND	Tri-State 19-Bit Bus Interface	48-TSSOP	1820.00/2,000		

LVT Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74LVT125D	296-1249-5-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	1.20	1.00	.80
SN74LVT125DBR	296-14919-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SSOP	1.20	1.00	.80
SN74LVT125DBR	296-14919-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SSOP	1064.00/2,000		
SN74LVT125DR	296-1249-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	1.20	1.00	.80
SN74LVT125DR	296-1249-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOIC	1300.00/2,500		
SN74LVT125NSR	296-13291-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOP	1.20	1.00	.80
SN74LVT125NSR	296-13291-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-SOP	1064.00/2,000		
SN74LVT125PWR	296-1250-1-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	1.20	1.00	.80
SN74LVT125PWR	296-1250-2-ND	Tri-State 3.3V ABT Quad Bus Buffer	14-TSSOP	1064.00/2,000		
SN74LVT125QPWREP	296-19508-1-ND	Tri-State 3.3V ABT Quad Bus Buffer ***NEW!***	14-TSSOP	5.54	4.43	3.45
SN74LVT125QPWREP	296-19508-2-ND	Tri-State 3.3V ABT Quad Bus Buffer ***NEW!***	14-TSSOP	6274.00/2,000		
SN74LVT240ADBR	296-14924-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	.81	.68	.54
SN74LVT240ADBR	296-14924-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	718.00/2,000		
SN74LVT240ADW	296-1706-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.81	.68	.54
SN74LVT240ADWR	296-14925-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.81	.68	.54
SN74LVT240ADWR	296-14925-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	718.00/2,000		
SN74LVT240APWR	296-8647-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	.87	.73	.58
SN74LVT240APWR	296-8647-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	772.00/2,000		
SN74LVT244BDBR	296-8648-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	.92	.69	.52
SN74LVT244BDBR	296-8648-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	612.00/2,000		
SN74LVT244BDW	296-1707-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.92	.69	.52
SN74LVT244BDWR	296-14926-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.92	.69	.52
SN74LVT244BDWR	296-14926-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	612.00/2,000		
SN74LVT244BGQNR	296-12104-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-BGA	1.47	1.23	.98
SN74LVT244BGQNR	296-12104-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-BGA	652.00/1,000		
SN74LVT244BPWR	296-8649-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	.92	.69	.52
SN74LVT244BPWR	296-8649-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	612.00/2,000		
SN74LVT244BRGYR	296-13982-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-QFN	3.24	2.43	1.76
SN74LVT244BRGYR	296-13982-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-QFN	729.00/1,000		
SN74LVT245BDBR	296-8650-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SSOP	.92	.69	.52
SN74LVT245BDBR	296-8650-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SSOP	612.00/2,000		
SN74LVT245BDW	296-8651-5-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOIC	.92	.69	.52
SN74LVT245BDWR	296-8651-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOIC	.92	.69	.52
SN74LVT245BDWR	296-8651-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOIC	612.00/2,000		
SN74LVT245BGQNR	296-12105-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-BGA	1.47	1.23	.98
SN74LVT245BGQNR	296-12105-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-BGA	652.00/1,000		
SN74LVT245BNSR	296-13294-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOP	.92	.69	.52
SN74LVT245BNSR	296-13294-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-SOP	612.00/2,000		
SN74LVT245BPWR	296-8652-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-TSSOP	.92	.69	.52
SN74LVT245BPWR	296-8652-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-TSSOP	612.00/2,000		
SN74LVT245BRGYR	296-13983-1-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-QFN	.81	.68	.54
SN74LVT245BRGYR	296-13983-2-ND	Tri-St. 3.3V ABT Octal Bus Transceiver	20-QFN	359.00/1,000		
SN74LVT543PWR	296-13295-1-ND	Tri-State Octal Registered Transceiver	24-TSSOP	2.00	1.60	1.20
SN74LVT543PWR	296-13295-2-ND	Tri-State Octal Registered Transceiver	24-TSSOP	2080.00/2,000		
SN74LVT573DBR	296-8654-1-ND	Octal Transparent Latch	20-SSOP	2.00	1.60	1.20
SN74LVT573DBR	296-8654-2-ND	Octal Transparent Latch	20-SSOP	2080.00/2,000		
SN74LVT573DWR	296-1255-1-ND	3.3V Octal Transparent Latch	20-SOIC	2.00	1.60	1.20
SN74LVT573DWR	296-1255-2-ND	3.3V Octal Transparent Latch	20-SOIC	2080.00/2,000		
SN74LVT574PWR	296-1257-1-ND	Tri-State 3.3V Octal D-Type Flip-Flop	20-TSSOP	2.00	1.60	1.20
SN74LVT574PWR	296-1257-2-ND	Tri-State 3.3V Octal D-Type Flip-Flop	20-TSSOP	2080.00/2,000		
SN74LVT8980ADW	296-13498-5-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	8.92	7.14	6.03
SN74LVT8980ADWR	296-15986-1-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	8.92	7.14	6.03
SN74LVT8980ADWR	296-15986-2-ND	Embedded Test-Bus Controller (IEEE STD 1149.1)	24-SOIC	11150.00/2,000		
SN74LVT8986GGV	296-14927-5-ND	3.3V Linking Addressable Scan Port	64-PBGA	8.06	6.45	5.45
SN74LVT8986PM	296-14928-5-ND	3.3V Linking Addressable Scan Port	64-LQFP	8.06	6.45	5.45
SN74LVT8996DW	296-8656-5-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOIC	9.00	7.20	6.08

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVT8996DWR	296-8656-1-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOIC	9.00	7.20	6.08
SN74LVT8996DWR	296-8656-2-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-SOIC	11250.00/2,000		
SN74LVT8996PW	296-8657-5-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	9.00	7.20	6.08
SN74LVT8996PWR	296-8657-1-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	9.00	7.20	6.08
SN74LVT8996PWR	296-8657-2-ND	3.3V 10-Bit Addressable Scan Port Transceiver (IEEE STD 1149.1)	24-TSSOP	11250.00/2,000		
SN74LVT16240DGGR	296-8633-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74LVT16240DGGR	296-8633-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1560.00/2,000		
SN74LVT16240DLR	296-8634-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74LVT16240DLR	296-8634-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	780.00/1,000		
SN74LVT16244BDGGR	296-8635-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74LVT16244BDGGR	296-8635-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1560.00/2,000		
SN74LVT16244BDGVR	296-8636-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74LVT16244BDGVR	296-8636-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74LVT16244BDLR	296-8637-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74LVT16244BDLR	296-8637-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	780.00/1,000		
SN74LVT16244BGQLR	296-8638-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVFBGA	2.25	1.80	1.35
SN74LVT16244BGQLR	296-8638-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	48-TVFBGA	1170.00/1,000		
SN74LVT16244BGRDR	296-16893-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	54-BGA	2.25	1.80	1.35
SN74LVT16244BGRDR	296-16893-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	54-BGA	1170.00/1,000		
SN74LVT16244BZRDR	296-16894-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	54-BGA	1.50	1.20	.90
SN74LVT16244BZRDR	296-16894-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	54-BGA	780.00/1,000		
SN74LVT16245ADGGR	296-1251-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	2.25	1.80	1.40
SN74LVT16245ADGGR	296-1251-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-TSSOP	2550.00/2,000		
SN74LVT16245ADL	296-8639-5-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr	48-SSOP	2.25	1.80	1.40
SN74LVT16245BDGGR	296-8640-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	1.50	1.20	.90
SN74LVT16245BDGGR	296-8640-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	1560.00/2,000		
SN74LVT16245BDGVR	296-8641-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVSOP	1.75	1.40	1.05
SN74LVT16245BDGVR	296-8641-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVSOP	1820.00/2,000		
SN74LVT16245BDLR	296-8642-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	1.75	1.40	1.05
SN74LVT16245BDLR	296-8642-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	780.00/1,000		
SN74LVT16245BGQLR	296-8643-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVFBGA	2.48	1.98	1.54
SN74LVT16245BGQLR	296-8643-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TVFBGA	1403.00/1,000		
SN74LVT16500DGGR	296-14920-1-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-TSSOP	2.72	2.18	1.70
SN74LVT16500DGGR	296-14920-2-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-TSSOP	3086.00/2,000		
SN74LVT16500DLR	296-8644-1-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-SSOP	2.72	2.18	1.70
SN74LVT16500DLR	296-8644-2-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-SSOP	1543.00/1,000		
SN74LVT16501DGGR	296-1252-1-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-TSSOP	2.72	2.18	1.70
SN74LVT16501DGGR	296-1252-2-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-TSSOP	3086.00/2,000		
SN74LVT16501DLR	296-14921-1-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-SSOP	2.72	2.18	1.70
SN74LVT16501DLR	296-14921-2-ND	Tri-State 3.3V ABT 18-Bit Univ. Bus Transceiver	56-SSOP	1543.00/1,000		
SN74LVT16543DGGR	296-14922-1-ND	3.3V, 16-Bit Registered Transceiver	56-TSSOP	2.72	2.18	1.70
SN74LVT16543DGGR	296-14922-2-ND	3.3V, 16-Bit Registered Transceiver	56-TSSOP	3086.00/2,000		
SN74LVT16543DLR	296-8645-1-ND	Registered Transceiver	56-SSOP	2.72	2.18	1.70
SN74LVT16543DLR	296-8645-2-ND	Registered Transceiver	56-SSOP	1543.00/1,000		
SN74LVT16646DGGR	296-14923-1-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	4.10	3.28	2.55
SN74LVT16646DGGR	296-14923-2-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	4642.00/2,000		
SN74LVT16952DGGR	296-1253-1-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	2.90	2.33	1.81
SN74LVT16952DGGR	296-1253-2-ND	3.3V, 16-Bit Bus Transceiver	56-TSSOP	3290.00/2,000		
SN74LVT16952DLR	296-1254-1-ND	3.3V, 16-Bit Bus Transceiver	56-SSOP	2.90	2.33	1.81
SN74LVT16952DLR	296-1254-2-ND	3.3V, 16-Bit Bus Transceiver	56-SSOP	1645.00/1,000		
SN74LVT18512DGGR	296-8646-1-ND	3.3V ABT Scan Test Device with 18-Bit Universal Bus Transceiver	64-TSSOP	6.00	4.80	4.05
SN74LVT18512DGGR	296-8646-2-ND	3.3V ABT Scan Test Device with 18-Bit Universal Bus Transceiver	64-TSSOP	7500.00/2,000		
SN74LVT32240GKER	296-9881-1-ND	3.3V ABT 32-Bit Buffer/Driver	96-LFBGA	4.50	3.60	2.80
SN74LVT32240GKER	296-9881-2-ND	3.3V ABT 32-Bit Buffer/Driver	96-LFBGA	2550.00/1,000		
SN74LVT32244GKER	296-8653-1-ND	Tri-St., 3.3V, ABT 32-Bit Buffer/Driver	96-LFBGA	4.50	3.60	2.80
SN74LVT32244GKER	296-8653-2-ND	Tri-St., 3.3V, ABT 32-Bit Buffer/Driver	96-LFBGA	2550.00/1,000		
SN74LVT162240DGGR	296-8625-1-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74LVT162240DGGR	296-8625-2-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TSSOP	1560.00/2,000		
SN74LVT162240DGVR	296-8626-1-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74LVT162240DGVR	296-8626-2-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74LVT162240DLR	296-8627-1-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74LVT162240DLR	296-8627-2-ND	Tri-State, 3.3V, ABT Quad Bus Buffer/Driver	48-SSOP	780.00/1,000		
SN74LVT162244ADGGR	296-8628-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TSSOP	1.50	1.20	.90
SN74LVT162244ADGGR	296-8628-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TSSOP	1560.00/2,000		
SN74LVT162244ADGVR	296-8629-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74LVT162244ADGVR	296-8629-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-TVSOP	1560.00/2,000		
SN74LVT162244ADLR	296-8630-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-SSOP	1.50	1.20	.90
SN74LVT162244ADLR	296-8630-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	48-SSOP	780.00/1,000		
SN74LVT162244AGQLR	296-13292-1-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	56-VFBGA	1.50	1.20	.90
SN74LVT162244AGQLR	296-13292-2-ND	Tri-St., 3.3V, ABT 16-Bit Buffer/Driver	56-VFBGA	780.00/1,000		
SN74LVT162244AGRDR	296-16891-1-ND	Tri-State 3.3V, ABT 16-Bit Buffer/Driver	54-BGA	2.25	1.80	1.35
SN74LVT162244AGRDR	296-16891-2-ND	Tri-State 3.3V, ABT 16-Bit Buffer/Driver	54-BGA	1170.00/1,000		
SN74LVT162244AZRDR	296-16892-1-ND	Tri-State 3.3V, ABT 16-Bit Buffer/Driver	54-BGA	1.50	1.20	.90
SN74LVT162244AZRDR	296-16892-2-ND	Tri-State 3.3V, ABT 16-Bit Buffer/Driver	54-BGA	780.00/1,000		
SN74LVT162245ADGGR	296-8631-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	1.50	1.20	.90
SN74LVT162245ADGGR	296-8631-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	1560.00/2,000		
SN74LVT162245ADLR	296-8632-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	1.50	1.20	.90
SN74LVT162245ADLR	296-8632-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	780.00/1,000		
SN74LVT162245AGQLR	296-13293-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	56-VFBGA	2.70	2.16	1.68
SN74LVT162245AGQLR	296-13293-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	56-VFBGA	1530.00/1,000		

LVTH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CLVTH16244AQDGGREP	296-18097-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	5.28	4.23	3.57
CLVTH16244AQDGGREP	296-18097-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	6600.00/2,000		
CLVTH16245AQDGGREP	296-18098-1-ND	Tri-State 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	2.70	2.16	1.68
CLVTH16245AQDGGREP	296-18098-2-ND	Tri-State 3.3V ABT 16-Bit Bus Transceiver	48-TSSOP	3060.00/2,000		
CLVTH16374IDLREP	296-19494-1-ND	Tri-State 3.3V ABT 16-Bit Edge-Triggered D-Type Flip-Flop ***NEW!***	48-SSOP	6.86	5.49	4.64
CLVTH16374IDLREP	296-19494-2-ND	Tri-State 3.3V ABT 16-Bit Edge-Triggered D-Type Flip-Flop ***NEW!***	48-SSOP	4288.00/1,000		
74LVTH162244ZRDR	296-16876-1-ND	Tri-State 3.3V, 16-Bit Buffer/Driver	54-BGA	1.32	1.10	.88
74LVTH162244ZRDR	296-16876-2-ND	Tri-State 3.3V, 16-Bit Buffer/Driver	54-BGA	585.00/1,000		
74LVTH162245GRDR	296-16877-1-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	54-BGA	1.75	1.40	1.05
74LVTH162245GRDR	296-16877-2-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	54-BGA	910.00/1,000		
74LVTH162245ZRDR	296-16878-1-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	54-BGA	1.28	1.02	.77
74LVTH162245ZRDR	296-16878-2-ND	Tri-State 3.3V, 16-Bit Bus Transceiver	54-BGA	663.00/1,000		
74LVTH162374GRDR	296-16879-1-ND	Tri-State 3.3V, 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	1.75	1.40	1.05
74LVTH162374GRDR	296-16879-2-ND	Tri-State 3.3V, 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	910.00/1,000		
74LVTH162374ZRDR	296-16880-1-ND	Tri-State 3.3V, 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	1.28	1.02	.77
74LVTH162374ZRDR	296-16880-2-ND	Tri-State 3.3V, 16-Bit Edge-Triggered D-Type Flip-Flop	54-BGA	663.00/1,000		
SN74LVTH125D	296-1708-5-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	.56	.42	.32
SN74LVTH125DR	296-1708-1-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	.56	.42	.32
SN74LVTH125DR	296-1708-2-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	455.00/2,500		
SN74LVTH125DBR	296-8658-1-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	.56	.42	.32
SN74LVTH125DBR	296-8658-2-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	372.00/2,000		
SN74LVTH125DGVR	296-8659-1-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	.68	.51	.39
SN74LVTH125DGVR	296-8659-2-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	452.00/2,000		
SN74LVTH125PWR	296-8660-1-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	.62	.47	.35
SN74LVTH125PWR	296-8660-2-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	372.00/2,000		
SN74LVTH125RGYR	296-13984-1-ND	Tri-State ABT Quad Bus Buffer	14-QFN	.72	.54	.41
SN74LVTH125RGYR	296-13984-2-ND	Tri-State ABT Quad Bus Buffer	14-QFN	239.00/1,000		
SN74LVTH126DBR	296-8661-1-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	.56	.42	.32
SN74LVTH126DBR	296-8661-2-ND	Tri-State ABT Quad Bus Buffer	14-SSOP	372.00/2,000		
SN74LVTH126DGVR	296-8662-1-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	.56	.42	.32
SN74LVTH126DGVR	296-8662-2-ND	Tri-State ABT Quad Bus Buffer	14-TVSOP	372.00/2,000		
SN74LVTH126DR	296-8663-1-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	.56	.42	.32
SN74LVTH126DR	296-8663-2-ND	Tri-State ABT Quad Bus Buffer	14-SOIC	455.00/2,500		
SN74LVTH126PWR	296-8664-1-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	.62	.47	.35
SN74LVTH126PWR	296-8664-2-ND	Tri-State ABT Quad Bus Buffer	14-TSSOP	372.00/2,000		
SN74LVTH240DBR	296-8706-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74LVTH240DBR	296-8706-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	586.00/2,000		
SN74LVTH240DWR	296-8707-1-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74LVTH240DWR	296-8707-2-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	586.00/2,000		
SN74LVTH240GQNR	296-12106-1-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	1.47	1.23	.98
SN74LVTH240GQNR	296-12106-2-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	652.00/1,000		
SN74LVTH240PWR	296-8708-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	.96	.72	.54
SN74LVTH240PWR	296-8708-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	638.00/2,000		
SN74LVTH240RGYR	296-13985-1-ND	Tri-State ABT Octal Buffer/Driver	20-QFN	.78	.65	.52
SN74LVTH240RGYR	296-13985-2-ND	Tri-State ABT Octal Buffer/Driver	20-QFN	346.00/1,000		
SN74LVTH241DBR	296-12742-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	.88	.66	.50
SN74LVTH241DBR	296-12742-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	586.00/2,000		
SN74LVTH241DW	296-1715-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.88	.66	.50
SN74LVTH241PWR	296-8709-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	.96	.72	.54
SN74LVTH241PWR	296-8709-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	638.00/2,000		
SN74LVTH244ADBR	296-1269-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	.80	.60	.45
SN74LVTH244ADBR	296-1269-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	532.00/2,000		
SN74LVTH244ADW	296-1270-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74LVTH244ADWR	296-1270-1-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74LVTH244ADWR	296-1270-2-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	532.00/2,000		
SN74LVTH244AGQNR	296-12107-1-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	.99	.83	.66
SN74LVTH244AGQNR	296-12107-2-ND	Tri-State ABT Octal Buffer/Driver	20-BGA	439.00/1,000		
SN74LVTH244APWR	296-1271-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	.80	.60	.45
SN74LVTH244APWR	296-1271-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	532.00/2,000		
SN74LVTH244AQPWREP	296-18128-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	2.70	2.16	1.68
SN74LVTH244AQPWREP	296-18128-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	3060.00/2,000		
SN74LVTH244ARGYR	296-13986-1-ND	Tri-State ABT Octal Buffer/Driver	20-QFN	.92	.69	.52
SN74LVTH244ARGYR	296-13986-2-ND	Tri-State ABT Octal Buffer/Driver	20-QFN	306.00/1,000		
SN74LVTH245ADBR	296-8710-1-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74LVTH245ADBR	296-8710-2-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	532.00/2,000		
SN74LVTH245ADW	296-8711-5-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LVTH245ADWR	296-8711-1-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LVTH245ADWR	296-8711-2-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	532.00/2,000		
SN74LVTH245AGQNR	296-12108-1-ND	Tri-State ABT Octal Bus Transceiver	20-BGA	1.35	1.13	.90
SN74LVTH245AGQNR	296-12108-2-ND	Tri-State ABT Octal Bus Transceiver	20-BGA	599.00/1,000		
SN74LVTH245APWR	296-1272-1-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	.80	.60	.45
SN74LVTH245APWR	296-1272-2-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	532.00/2,000		
SN74LVTH245ARGYR	296-13987-1-ND	Tri-State ABT Octal Bus Transceiver	20-QFN	.92	.69	.52
SN74LVTH245ARGYR	296-13987-2-ND	Tri-State ABT Octal Bus Transceiver	20-QFN	306.00/1,000		
SN74LVTH273DBR	296-8712-1-ND	ABT Octal D-Type Flip-Flop with Clear	20-SSOP	.80	.60	.45
SN74LVTH273DBR	296-8712-2-ND	ABT Octal D-Type Flip-Flop with Clear	20-SSOP	532.00/2,000		
SN74LVTH273DWR	296-14934-1-ND	ABT Octal D-Type Flip-Flop with Clear	20-SOIC	.80	.60	.45
SN74LVTH273DWR	296-14934-2-ND	ABT Octal D-Type Flip-Flop with Clear	20-SOIC	532.00/2,000		
SN74LVTH273PWR	296-1273-1-ND	ABT Octal D-Type Flip-Flop with Clear	20-TSSOP	.80	.60	.45
SN74LVTH273PWR	296-1273-2-ND	ABT Octal D-Type Flip-Flop with Clear	20-TSSOP	532.00/2,000		
SN74LVTH373DBR	296-8718-1-ND	Tri-State ABT Octal D-Type Latch	20-SSOP	.80	.60	.45
SN74LVTH373DBR	296-8718-2-ND	Tri-State ABT Octal D-Type Latch	20-SSOP	532.00/2,000		
SN74LVTH373DW	296-8719-5-ND	Tri-State ABT Octal D-Type Latch	20-SOIC	.80	.60	.45
SN74LVTH373PWR	296-8720-1-ND	Tri-State ABT Octal D-Type Latch	20-TSSOP	.80	.60	.45
SN74LVTH373PWR	296-8720-2-ND	Tri-State ABT Octal D-Type Latch	20-TSSOP	532.00/2,000		
SN74LVTH374DBR	296-8721-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74LVTH374DBR	296-8721-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	532.00/2,000		
SN74LVTH374DW	296-8722-5-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LVTH374DWR	296-8722-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LVTH374DWR	296-8722-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	532.00/2,000		
SN74LVTH374PWR	296-8723-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74LVTH374PWR	296-8723-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	532.00/2,000		
SN74LVTH540DBR	296-8724-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1.41	1.18	.94
SN74LVTH540DBR	296-8724-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1250.00/2,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74LVTH540DW	296-8725-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	1.41	1.18	.94
SN74LVTH540PWR	296-8726-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.41	1.18	.94
SN74LVTH540PWR	296-8726-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP		1250.00/2,000	
SN74LVTH541DBR	296-8727-1-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP	1.41	1.18	.94
SN74LVTH541DBR	296-8727-2-ND	Tri-State ABT Octal Buffer/Driver	20-SSOP		1250.00/2,000	
SN74LVTH541DW	296-8728-5-ND	Tri-State ABT Octal Buffer/Driver	20-SOIC	1.41	1.18	.94
SN74LVTH541PWR	296-8729-1-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP	1.41	1.18	.94
SN74LVTH541PWR	296-8729-2-ND	Tri-State ABT Octal Buffer/Driver	20-TSSOP		1250.00/2,000	
SN74LVTH543DBR	296-8730-1-ND	Tri-St. ABT Octal Transceiver/Register	24-SSOP	1.35	1.13	.90
SN74LVTH543DBR	296-8730-2-ND	Tri-St. ABT Octal Transceiver/Register	24-SSOP		1198.00/2,000	
SN74LVTH543DGVR	296-8731-1-ND	Tri-St. ABT Octal Transceiver/Register	24-TVSOP	1.35	1.13	.90
SN74LVTH543DGVR	296-8731-2-ND	Tri-St. ABT Octal Transceiver/Register	24-TVSOP		1198.00/2,000	
SN74LVTH543DW	296-1717-5-ND	Tri-St. ABT Octal Transceiver/Register	24-SOIC	1.35	1.13	.90
SN74LVTH543PWR	296-8732-1-ND	Tri-St. ABT Octal Transceiver/Register	24-TSSOP	1.35	1.13	.90
SN74LVTH543PWR	296-8732-2-ND	Tri-St. ABT Octal Transceiver/Register	24-TSSOP		1198.00/2,000	
SN74LVTH573DBR	296-8733-1-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SSOP	.80	.60	.45
SN74LVTH573DBR	296-8733-2-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SSOP		532.00/2,000	
SN74LVTH573DW	296-1718-5-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74LVTH573DWR	296-14935-1-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SOIC	.80	.60	.45
SN74LVTH573DWR	296-14935-2-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SOIC		532.00/2,000	
SN74LVTH573GQNR	296-12109-1-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-BGA	1.47	1.23	.98
SN74LVTH573GQNR	296-12109-2-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-BGA		652.00/1,000	
SN74LVTH573NSR	296-13300-1-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SOP	.80	.60	.45
SN74LVTH573NSR	296-13300-2-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-SOP		532.00/2,000	
SN74LVTH573PWR	296-8734-1-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-TSSOP	.80	.60	.45
SN74LVTH573PWR	296-8734-2-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-TSSOP		532.00/2,000	
SN74LVTH573RGYR	296-13988-1-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-QFN	.96	.72	.54
SN74LVTH573RGYR	296-13988-2-ND	Tri-State, 3.3V, ABT Octal Transparent D-Type Latch	20-QFN		319.00/1,000	
SN74LVTH574DBR	296-8735-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP	.80	.60	.45
SN74LVTH574DBR	296-8735-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SSOP		532.00/2,000	
SN74LVTH574DW	296-1719-5-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LVTH574DWR	296-1719-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC	.80	.60	.45
SN74LVTH574DWR	296-1719-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-SOIC		532.00/2,000	
SN74LVTH574GQNR	296-12110-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-BGA	1.47	1.23	.98
SN74LVTH574GQNR	296-12110-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-BGA		652.00/1,000	
SN74LVTH574PWR	296-8736-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP	.80	.60	.45
SN74LVTH574PWR	296-8736-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-TSSOP		532.00/2,000	
SN74LVTH574RGYR	296-13989-1-ND	Tri-State ABT Octal D-Type Flip-Flop	20-QFN	2.76	2.07	1.50
SN74LVTH574RGYR	296-13989-2-ND	Tri-State ABT Octal D-Type Flip-Flop	20-QFN		621.00/1,000	
SN74LVTH646DBR	296-8737-1-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SSOP	1.05	.88	.70
SN74LVTH646DBR	296-8737-2-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SSOP		932.00/2,000	
SN74LVTH646DGVR	296-12924-1-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TVSOP	1.05	.88	.70
SN74LVTH646DGVR	296-12924-2-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TVSOP		932.00/2,000	
SN74LVTH646DW	296-1720-5-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SOIC	1.05	.88	.70
SN74LVTH646PWR	296-8738-1-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TSSOP	1.05	.88	.70
SN74LVTH646PWR	296-8738-2-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TSSOP		932.00/2,000	
SN74LVTH652DBR	296-8739-1-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SSOP	1.88	1.50	1.13
SN74LVTH652DBR	296-8739-2-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SSOP		1950.00/2,000	
SN74LVTH652DGVR	296-12925-1-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TVSOP	1.88	1.50	1.13
SN74LVTH652DGVR	296-12925-2-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TVSOP		1950.00/2,000	
SN74LVTH652DW	296-1721-5-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SOIC	1.88	1.50	1.13
SN74LVTH652PWR	296-8740-1-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TSSOP	1.88	1.50	1.13
SN74LVTH652PWR	296-8740-2-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TSSOP		1950.00/2,000	
SN74LVTH2245DBR	296-8704-1-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP	.80	.60	.45
SN74LVTH2245DBR	296-8704-2-ND	Tri-State ABT Octal Bus Transceiver	20-SSOP		532.00/2,000	
SN74LVTH2245DGVR	296-12921-1-ND	Tri-State ABT Octal Bus Transceiver	20-TVSOP	.78	.65	.52
SN74LVTH2245DGVR	296-12921-2-ND	Tri-State ABT Octal Bus Transceiver	20-TVSOP		692.00/2,000	
SN74LVTH2245DW	296-1714-5-ND	Tri-State ABT Octal Bus Transceiver	20-SOIC	.80	.60	.45
SN74LVTH2245PWR	296-8705-1-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP	.80	.60	.45
SN74LVTH2245PWR	296-8705-2-ND	Tri-State ABT Octal Bus Transceiver	20-TSSOP		532.00/2,000	
SN74LVTH2952DBR	296-8714-1-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SSOP	1.20	1.00	.80
SN74LVTH2952DBR	296-8714-2-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SSOP		1064.00/2,000	
SN74LVTH2952DGVR	296-12922-1-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TVSOP	1.20	1.00	.80
SN74LVTH2952DGVR	296-12922-2-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TVSOP		1064.00/2,000	
SN74LVTH2952DW	296-1716-5-ND	Tri-State ABT Octal Bus Xcvr./Register	24-SOIC	1.20	1.00	.80
SN74LVTH2952PWR	296-8715-1-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TSSOP	1.20	1.00	.80
SN74LVTH2952PWR	296-8715-2-ND	Tri-State ABT Octal Bus Xcvr./Register	24-TSSOP		1064.00/2,000	
SN74LVTH16240DGGR	296-8674-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74LVTH16240DGGR	296-8674-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		1064.00/2,000	
SN74LVTH16240DL	296-8675-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH16241DGGR	296-8676-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74LVTH16241DGGR	296-8676-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		1064.00/2,000	
SN74LVTH16241DL	296-12919-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH16244ADGGR	296-1260-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74LVTH16244ADGGR	296-1260-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		1064.00/2,000	
SN74LVTH16244ADGVR	296-8677-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVSOP	1.50	1.20	.90
SN74LVTH16244ADGVR	296-8677-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVSOP		1560.00/2,000	
SN74LVTH16244ADL	296-1261-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH16244ADLR	296-1261-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH16244ADLR	296-1261-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP		532.00/1,000	
SN74LVTH16244AGQLR	296-8678-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVFBGA	2.25	1.80	1.35
SN74LVTH16244AGQLR	296-8678-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TVFBGA		1170.00/1,000	
SN74LVTH16244AGRDR	296-16895-1-ND	Tri-State ABT 16-Bit Buffer/Driver	54-BGA	2.25	1.80	1.35
SN74LVTH16244AGRDR	296-16895-2-ND	Tri-State ABT 16-Bit Buffer/Driver	54-BGA		1170.00/1,000	
SN74LVTH16244AZRDR	296-16896-1-ND	Tri-State ABT 16-Bit Buffer/Driver	54-BGA	1.50	1.20	.90
SN74LVTH16244AZRDR	296-16896-2-ND	Tri-State ABT 16-Bit Buffer/Driver	54-BGA		780.00/1,000	
SN74LVTH16245ADGGR	296-1262-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TSSOP	1.20	1.00	.80
SN74LVTH16245ADGGR	296-1262-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TSSOP		1064.00/2,000	
SN74LVTH16245ADGVR	296-8679-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TVSOP	1.50	1.20	.90
SN74LVTH16245ADGVR	296-8679-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-TVSOP		1560.00/2,000	
SN74LVTH16245ADL	296-8680-5-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74LVTH16245ADLR	296-8680-1-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP	1.20	1.00	.80
SN74LVTH16245ADLR	296-8680-2-ND	Tri-State ABT 16-Bit Bus Transceiver	48-SSOP		532.00/1,000	
SN74LVTH16245AGQLR	296-8681-1-ND	Tri-State ABT 16-Bit Bus Transceiver	56-VFBGA	1.75	1.40	1.05
SN74LVTH16245AGQLR	296-8681-2-ND	Tri-State ABT 16-Bit Bus Transceiver	56-VFBGA		910.00/1,000	
SN74LVTH16245AGRDR	296-16897-1-ND	Tri-State ABT 16-Bit Bus Transceiver	54-BGA	2.25	1.80	1.35
SN74LVTH16245AGRDR	296-16897-2-ND	Tri-State ABT 16-Bit Bus Transceiver	54-BGA		1170.00/1,000	
SN74LVTH16245AZRDR	296-16898-1-ND	Tri-State ABT 16-Bit Bus Transceiver	54-BGA	1.50	1.20	.90
SN74LVTH16245AZRDR	296-16898-2-ND	Tri-State ABT 16-Bit Bus Transceiver	54-BGA		780.00/1,000	
SN74LVTH162541DGGR	296-8682-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.75	1.40	1.05
SN74LVTH162541DGGR	296-8682-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		1820.00/2,000	
SN74LVTH162541DL	296-8683-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.75	1.40	1.05
SN74LVTH16373DGGR	296-8684-1-ND	Tri-State ABT 16-Bit D-Type Latch	48-TSSOP	1.20	1.00	.80
SN74LVTH16373DGGR	296-8684-2-ND	Tri-State ABT 16-Bit D-Type Latch	48-TSSOP		1064.00/2,000	
SN74LVTH16373DL	296-8685-5-ND	Tri-State ABT 16-Bit D-Type Latch	48-SSOP	1.20	1.00	.80
SN74LVTH16373DLR	296-8685-1-ND	Tri-State ABT 16-Bit D-Type Latch	48-SSOP	1.20	1.00	.80
SN74LVTH16373DLR	296-8685-2-ND	Tri-State ABT 16-Bit D-Type Latch	48-SSOP		532.00/1,000	
SN74LVTH16373GQLR	296-8686-1-ND	Tri-State ABT 16-Bit D-Type Latch	48-TVFBGA	2.25	1.80	1.35
SN74LVTH16373GQLR	296-8686-2-ND	Tri-State ABT 16-Bit D-Type Latch	48-TVFBGA		1170.00/1,000	
SN74LVTH16373GRDR	296-16899-1-ND	Tri-State ABT 16-Bit D-Type Latch	54-BGA	2.25	1.80	1.35
SN74LVTH16373GRDR	296-16899-2-ND	Tri-State ABT 16-Bit D-Type Latch	54-BGA		1170.00/1,000	
SN74LVTH16373ZRDR	296-16900-1-ND	Tri-State ABT 16-Bit D-Type Latch	54-BGA	1.50	1.20	.90
SN74LVTH16373ZRDR	296-16900-2-ND	Tri-State ABT 16-Bit D-Type Latch	54-BGA		780.00/1,000	
SN74LVTH16374DGGR	296-1263-1-ND	Tri-State ABT 16-Bit D-Type F/F	48-TSSOP	1.50	1.20	.90
SN74LVTH16374DGGR	296-1263-2-ND	Tri-State ABT 16-Bit D-Type F/F	48-TSSOP		1560.00/2,000	
SN74LVTH16374DL	296-1264-5-ND	Tri-State ABT 16-Bit D-Type F/F	48-SSOP	1.20	1.00	.80
SN74LVTH16374DLR	296-1264-1-ND	Tri-State ABT 16-Bit D-Type F/F	48-SSOP	1.20	1.00	.80
SN74LVTH16374DLR	296-1264-2-ND	Tri-State ABT 16-Bit D-Type F/F	48-SSOP		532.00/1,000	
SN74LVTH16374GQLR	296-8688-1-ND	Tri-State ABT 16-Bit D-Type F/F	48-TVFBGA	2.25	1.80	1.35
SN74LVTH16374GQLR	296-8688-2-ND	Tri-State ABT 16-Bit D-Type F/F	48-TVFBGA		1170.00/1,000	
SN74LVTH16374GRDR	296-16901-1-ND	Tri-State ABT 16-Bit D-Type F/F	54-BGA	2.25	1.80	1.35
SN74LVTH16374GRDR	296-16901-2-ND	Tri-State ABT 16-Bit D-Type F/F	54-BGA		1170.00/1,000	
SN74LVTH16374ZRDR	296-16902-1-ND	Tri-State ABT 16-Bit D-Type F/F	54-BGA	1.50	1.20	.90
SN74LVTH16374ZRDR	296-16902-2-ND	Tri-State ABT 16-Bit D-Type F/F	54-BGA		780.00/1,000	
SN74LVTH16500DGGR	296-8689-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP	1.50	1.20	.90
SN74LVTH16500DGGR	296-8689-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP		1560.00/2,000	
SN74LVTH16500DL	296-8690-5-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-SSOP	2.00	1.60	1.20
SN74LVTH16500GQLR	296-12476-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-VFBGA	3.38	2.70	2.10
SN74LVTH16500GQLR	296-12476-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-VFBGA		1913.00/1,000	
SN74LVTH16501DGGR	296-8691-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP	1.63	1.30	.98
SN74LVTH16501DGGR	296-8691-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-TSSOP		1690.00/2,000	
SN74LVTH16501DLR	296-14930-1-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-SSOP	1.75	1.40	1.05
SN74LVTH16501DLR	296-14930-2-ND	Tri-State ABT 18-Bit Univ. Bus Xcvr.	56-SSOP		910.00/1,000	
SN74LVTH16541DGGR	296-8693-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.75	1.40	1.05
SN74LVTH16541DGGR	296-8693-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP		1820.00/2,000	
SN74LVTH16541DL	296-12920-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.75	1.40	1.05
SN74LVTH16543DGGR	296-1265-1-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP	1.38	1.10	.83
SN74LVTH16543DGGR	296-1265-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP		1430.00/2,000	
SN74LVTH16543DL	296-1710-5-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP	1.38	1.10	.83
SN74LVTH16543DLR	296-1710-1-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP	1.38	1.10	.83
SN74LVTH16543DLR	296-1710-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP		715.00/1,000	
SN74LVTH16646DGGR	296-1266-1-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP	1.75	1.40	1.05
SN74LVTH16646DGGR	296-1266-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP		1820.00/2,000	
SN74LVTH16646DL	296-1711-5-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP	1.75	1.40	1.05
SN74LVTH16652DGGR	296-1267-1-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP	2.36	1.89	1.47
SN74LVTH16652DGGR	296-1267-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP		2678.00/2,000	
SN74LVTH16652DL	296-1712-5-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP	2.36	1.89	1.47
SN74LVTH16835DGGR	296-8694-1-ND	Tri-State ABT 18-Bit Univ. Bus Driver	56-TSSOP	2.30	1.84	1.43
SN74LVTH16835DGGR	296-8694-2-ND	Tri-State ABT 18-Bit Univ. Bus Driver	56-TSSOP		2602.00/2,000	
SN74LVTH16835DL	296-8695-5-ND	Tri-State ABT 18-Bit Univ. Bus Driver	56-SSOP	2.30	1.84	1.43
SN74LVTH16952DGGR	296-1268-1-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP	1.95	1.56	1.17
SN74LVTH16952DGGR	296-1268-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-TSSOP		2028.00/2,000	
SN74LVTH16952DL	296-1713-5-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP	1.95	1.56	1.17
SN74LVTH16952DLR	296-14931-1-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP	1.95	1.56	1.17
SN74LVTH16952DLR	296-14931-2-ND	Tri-State ABT 16-Bit Xcvr./Register	56-SSOP		1014.00/1,000	
SN74LVTH18502APM	296-8699-ND	ABT Scan Test Device with 18-Bit Transceiver	64-LQFP	6.60	5.28	4.46
SN74LVTH18502APMR	296-14932-1-ND	ABT Scan Test Device with 18-Bit Transceiver	64-LQFP	6.60	5.28	4.46
SN74LVTH18502APMR	296-14932-2-ND	ABT Scan Test Device with 18-Bit Transceiver	64-LQFP		4125.00/1,000	
SN74LVTH18504APM	296-8700-ND	ABT Scan Test Device with 20-Bit Transceiver	64-LQFP	6.60	5.28	4.46
SN74LVTH18504APMR	296-14933-1-ND	ABT Scan Test Device with 20-Bit Transceiver	64-LQFP	6.60	5.28	4.46
SN74LVTH18504APMR	296-14933-2-ND	ABT Scan Test Device with 20-Bit Transceiver	64-LQFP		4125.00/1,000	
SN74LVTH18511DGGR	296-17079-1-ND	3.3V ABT 18-Bit Universal Bus Transceiver	64-TSSOP	6.60	5.28	4.46
SN74LVTH18511DGGR	296-17079-2-ND	3.3V ABT 18-Bit Universal Bus Transceiver	64-TSSOP		8250.00/2,000	
SN74LVTH18512DGGR	296-8701-1-ND	ABT Scan Test Device with 18-Bit Transceiver	64-TSSOP	6.60	5.28	4.46
SN74LVTH18512DGGR	296-8701-2-ND	ABT Scan Test Device with 18-Bit Transceiver	64-TSSOP		8250.00/2,000	
SN74LVTH18514DGGR	296-8702-1-ND	ABT Scan Test Device with 20-Bit Transceiver	64-TSSOP	6.60	5.28	4.46
SN74LVTH18514DGGR	296-8702-2-ND	ABT Scan Test Device with 20-Bit Transceiver	64-TSSOP		8250.00/2,000	
SN74LVTH18646APM	296-8703-ND	ABT Scan Test Device with 18-Bit Transceiver and Registers	64-LQFP	13.66	12.30	10.91
SN74LVTH18652APM	296-12994-5-ND	3.3V ABT Scan Test Device with 18-Bit Transceiver and Register	64-LQFP	13.66	12.30	10.91
SN74LVTH32244GKER	296-8716-1-ND	Tri-State ABT 32-Bit Buffer/Driver	96-LFBGA	3.83	3.06	2.38
SN74LVTH32244GKER	296-8716-2-ND	Tri-State ABT 32-Bit Buffer/Driver	96-LFBGA		2168.00/1,000	
SN74LVTH32245GKER	296-9882-1-ND	Tri-State ABT 32-Bit Bus Transceiver	96-LFBGA	3.83	3.06	2.38
SN74LVTH32245GKER	296-9882-2-ND	Tri-State ABT 32-Bit Bus Transceiver	96-LFBGA		2168.00/1,000	
SN74LVTH32373GKER	296-8717-1-ND	Tri-State ABT 32-Bit D-Type Latch	96-LFBGA	3.83	3.06	2.38
SN74LVTH32373GKER	296-8717-2-ND	Tri-State ABT 32-Bit D-Type Latch	96-LFBGA		2168.00/1,000	
SN74LVTH32374GKER	296-9883-1-ND	Tri-State ABT 32-Bit D-Type Flip-Flop	96-LFBGA	3.83	3.06	2.38
SN74LVTH32374GKER	296-9883-2-ND	Tri-State ABT 32-Bit D-Type Flip-Flop	96-LFBGA		2168.00/1,000	

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVTH162240DGGR	296-8665-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74LVTH162240DGGR	296-8665-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74LVTH162240DL	296-8666-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH162241DGGR	296-8667-1-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74LVTH162241DGGR	296-8667-2-ND	Tri-State ABT 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74LVTH162241DL	296-12917-5-ND	Tri-State ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH162244DGGR	296-1258-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1.20	1.00	.80
SN74LVTH162244DGGR	296-1258-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-TSSOP	1064.00/2,000		
SN74LVTH162244DL	296-1259-5-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH162244DLR	296-1259-1-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	1.20	1.00	.80
SN74LVTH162244DLR	296-1259-2-ND	Tri-State 3.3V ABT 16-Bit Buffer/Driver	48-SSOP	532.00/1,000		
SN74LVTH162244KR	296-13296-1-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	56-VFBGA	2.00	1.60	1.20
SN74LVTH162244KR	296-13296-2-ND	Tri-St. 3.3V ABT 16-Bit Buffer/Driver	56-VFBGA	1040.00/1,000		
SN74LVTH162245DGGR	296-8669-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	1.20	1.00	.80
SN74LVTH162245DGGR	296-8669-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-TSSOP	1064.00/2,000		
SN74LVTH162245DL	296-8670-5-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	1.20	1.00	.80
SN74LVTH162245DLR	296-8670-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	1.20	1.00	.80
SN74LVTH162245DLR	296-8670-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	48-SSOP	532.00/1,000		
SN74LVTH162245KR	296-13297-1-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	56-VFBGA	2.00	1.60	1.20
SN74LVTH162245KR	296-13297-2-ND	Tri-State 3.3V ABT 16-Bit Bus Xcvr.	56-VFBGA	1040.00/1,000		
SN74LVTH162373DGGR	296-8671-1-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-TSSOP	1.20	1.00	.80
SN74LVTH162373DGGR	296-8671-2-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-TSSOP	1064.00/2,000		
SN74LVTH162373DL	296-12918-5-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	48-SSOP	1.20	1.00	.80
SN74LVTH162373KR	296-12665-1-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	56-VFBGA	2.00	1.60	1.20
SN74LVTH162373KR	296-12665-2-ND	Tri-State ABT 16-Bit Transparent D-Type Latch	56-VFBGA	1040.00/1,000		
SN74LVTH162374DGGR	296-8672-1-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1.20	1.00	.80
SN74LVTH162374DGGR	296-8672-2-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-TSSOP	1064.00/2,000		
SN74LVTH162374DLR	296-14929-1-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	1.20	1.00	.80
SN74LVTH162374DLR	296-14929-2-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	48-SSOP	532.00/1,000		
SN74LVTH162374KR	296-13298-1-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	2.00	1.60	1.20
SN74LVTH162374KR	296-13298-2-ND	Tri-State, 3.3V, ABT 16-Bit Edge-Triggered D-Type Flip-Flop	56-VFBGA	1040.00/1,000		
SN74LVTH182502APM	296-8696-ND	ABT Scan Test Device with 18-Bit Xcvr.	64-LQFP	6.60	5.28	4.46
SN74LVTH182504APM	296-8697-ND	ABT Scan Test Device with 20-Bit Xcvr.	64-LQFP	6.60	5.28	4.46
SN74LVTH182512DGGR	296-8698-1-ND	ABT Scan Test Device with 18-Bit Xcvr.	64-TSSOP	6.60	5.28	4.46
SN74LVTH182512DGGR	296-8698-2-ND	ABT Scan Test Device with 18-Bit Xcvr.	64-TSSOP	8250.00/2,000		
SN74LVTH182652APM	296-14323-ND	3.3V ABT Scan Test Device	64-LQFP	13.66	12.30	10.91
SN74LVTH322374KR	296-13299-1-ND	Tri-State, 3.3V, ABT, 32-Bit, Edge-Triggered D-Type Flip-Flop	96-LFBGA	3.83	3.06	2.38
SN74LVTH322374KR	296-13299-2-ND	Tri-State, 3.3V, ABT, 32-Bit, Edge-Triggered D-Type Flip-Flop	96-LFBGA	2168.00/1,000		

LVTZ Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVTZ244DBR	296-12927-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	.80	.60	.45
SN74LVTZ244DBR	296-12927-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SSOP	532.00/2,000		
SN74LVTZ244DW	296-11806-5-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-SOIC	.80	.60	.45
SN74LVTZ244PWR	296-12928-1-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	.80	.60	.45
SN74LVTZ244PWR	296-12928-2-ND	Tri-State 3.3V ABT Octal Buffer/Driver	20-TSSOP	532.00/2,000		

LVU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74LVU04AD	296-1722-5-ND	Unbuffered Hex Inverter	14-SOIC	.60	.45	.34
SN74LVU04ADBR	296-9884-1-ND	Unbuffered Hex Inverter	14-SSOP	.60	.45	.34
SN74LVU04ADBR	296-9884-2-ND	Unbuffered Hex Inverter	14-SSOP	400.00/2,000		
SN74LVU04ADGVR	296-12929-1-ND	Unbuffered Hex Inverter	14-TVSOP	.60	.45	.34
SN74LVU04ADGVR	296-12929-2-ND	Unbuffered Hex Inverter	14-TVSOP	400.00/2,000		
SN74LVU04APWR	296-9885-1-ND	Unbuffered Hex Inverter	14-TSSOP	.60	.45	.34
SN74LVU04APWR	296-9885-2-ND	Unbuffered Hex Inverter	14-TSSOP	400.00/2,000		
SN74LVU04ARGYR	296-13990-1-ND	Unbuffered Hex Inverter	14-QFN	.48	.36	.27
SN74LVU04ARGYR	296-13990-2-ND	Unbuffered Hex Inverter	14-QFN	160.00/1,000		

MLVD Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN65MLVD047D	296-16855-5-ND	MLVDS Quad Diff. Line Driver	16-SOIC	3.26	2.61	2.03
SN65MLVD047PW	296-16856-ND	MLVDS Quad Diff. Line Driver	16-TSSOP	3.26	2.61	2.03
SN65MLVD128DGG	296-16849-ND	1:8 LVTTL to MLVDS Repeater	48-TSSOP	7.60	6.08	5.13
SN65MLVD129DGG	296-16850-ND	Dual 1:4 LVTTL to MLVDS Repeater	48-TSSOP	7.60	6.08	5.13
SN65MLVD200AD	296-16667-5-ND	MLVDS Line Driver/Receiver	8-SOIC	3.31	2.65	2.06
SN65MLVD200D	296-12207-5-ND	High Speed Diff. Line Driver/Receiver	8-SOIC	3.31	2.65	2.06
SN65MLVD202AD	296-16668-5-ND	MLVDS Line Driver/Receiver	14-SOIC	3.31	2.65	2.06
SN65MLVD202D	296-12208-5-ND	High Speed Diff. Line Driver/Receiver	14-SOIC	3.31	2.65	2.06
SN65MLVD204AD	296-16669-5-ND	MLVDS Line Driver/Receiver	8-SOIC	3.31	2.65	2.06
SN65MLVD204D	296-12209-5-ND	High Speed Diff. Line Driver/Receiver	8-SOIC	3.31	2.65	2.06
SN65MLVD205AD	296-16670-5-ND	MLVDS Line Driver/Receiver	14-SOIC	3.31	2.65	2.06
SN65MLVD205D	296-12210-5-ND	High Speed Diff. Line Driver/Receiver	14-SOIC	3.31	2.65	2.06

74S Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74S00N	296-1723-5-ND	Quad 2-Input NAND Gate	14-Dip	.78	.65	.52
SN74S04N	296-1724-5-ND	Hex Inverter	14-Dip	.78	.65	.52
SN74S10N	296-14937-5-ND	Triple 3-Input Positive NAND Gate	14-Dip	.84	.70	.56
SN74S37NSR	296-13301-1-ND	Quad 2-Input Positive NAND Buffer	14-SOP	1.44	1.20	.96
SN74S37NSR	296-13301-2-ND	Quad 2-Input Positive NAND Buffer	14-SOP	1276.00/2,000		
SN74S38D	296-1732-5-ND	Quad 2-Input NAND with OC	14-SOIC	1.44	1.20	.96
SN74S38DR	296-14939-1-ND	Quad 2-Input NAND with OC	14-SOIC	1.44	1.20	.96
SN74S38DR	296-14939-2-ND	Quad 2-Input NAND with OC	14-SOIC	1560.00/2,500		
SN74S38N	296-1733-5-ND	Quad 2-Input NAND with OC	14-Dip	1.44	1.20	.96
SN74S74N	296-1734-5-ND	Dual D-Type Flip-Flop	14-Dip	.90	.75	.60
SN74S138AN	296-1728-5-ND	3-8 Line Decoder/Demultiplexer	16-Dip	1.20	1.00	.80
SN74S240N	296-1729-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	2.28	1.82	1.37
SN74S244N	296-1730-5-ND	Tri-State Octal Buffer/Line Driver	20-Dip	2.28	1.82	1.37
SN74S280N	296-14938-5-ND	9-Bit Odd/Even Parity Generator/Checker	14-Dip	2.28	1.82	1.37
SN74S1051DR	296-14193-1-ND	12-Bit, Schottky Termination Array	16-SOIC	2.34	1.88	1.46
SN74S1051DR	296-14193-2-ND	12-Bit, Schottky Termination Array	16-SOIC	3275.00/2,500		
SN74S1053DW	296-1726-5-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-SOIC	2.34	1.88	1.46
SN74S1053DWR	296-14936-1-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-SOIC	2.34	1.88	1.46
SN74S1053DWR	296-14936-2-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-SOIC	2652.00/2,000		
SN74S1053PWR	296-13703-1-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-TSSOP	2.34	1.88	1.46
SN74S1053PWR	296-13703-2-ND	16-Bit, Schottky Barrier Diode Bus-Termination Array	20-TSSOP	2652.00/2,000		
SN74S1053N	296-1727-5-ND	16-Bit Termination Array	20-Dip	2.34	1.88	1.46

SSTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74SSTL16837ADGGR	296-9886-1-ND	Tri-State 20-Bit Universal Bus Driver	64-TSSOP	7.50	6.00	5.07
SN74SSTL16837ADGGR	296-9886-2-ND	Tri-State 20-Bit Universal Bus Driver	64-TSSOP	9376.00/2,000		
SN74SSTL16847DGGR	296-1274-1-ND	20-Bit SSTL_3 Buffer	64-TSSOP	7.50	6.00	5.07
SN74SSTL16847DGGR	296-1274-2-ND	20-Bit SSTL_3 Buffer	64-TSSOP	9376.00/2,000		
SN74SSTL16857DGGR	296-9887-1-ND	14-Bit Registered Buffer	48-TSSOP	7.50	6.00	5.07
SN74SSTL16857DGGR	296-9887-2-ND	14-Bit Registered Buffer	48-TSSOP	9376.00/2,000		

SSTU Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74SSTU32864CZKER	296-17801-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	5.30	4.24	3.58
SN74SSTU32864CZKER	296-17801-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	3313.00/1,000		
SN74SSTU32864DGKER	296-17964-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	9.18	8.27	7.33
SN74SSTU32864DGKER	296-17964-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	6805.00/1,000		
SN74SSTU32864DZKER	296-17860-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	9.18	8.27	7.33
SN74SSTU32864DZKER	296-17860-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	6805.00/1,000		
SN74SSTU32864EZKER	296-18298-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	9.18	8.27	7.33
SN74SSTU32864EZKER	296-18298-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	6805.00/1,000		
SN74SSTU32864GKER	296-15611-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	5.30	4.24	3.58
SN74SSTU32864GKER	296-15611-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	3313.00/1,000		
SN74SSTU32864ZKER	296-17793-1-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	5.30	4.24	3.58
SN74SSTU32864ZKER	296-17793-2-ND	25-Bit Config. Registered Buffer with SSTL 18-Input and Output	96-LFBGA	3313.00/1,000		
SN74SSTU32866AZKER	296-18233-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	10.61	9.56	8.48
SN74SSTU32866AZKER	296-18233-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	7867.00/1,000		
SN74SSTU32866GKER	296-18826-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	6.10	4.88	4.12
SN74SSTU32866GKER	296-18826-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	3813.00/1,000		
SN74SSTU32866ZKER	296-18827-1-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	6.10	4.88	4.12
SN74SSTU32866ZKER	296-18827-2-ND	25-Bit Configurable Registered Buffer with Address-Parity Test	96-LFBGA	3813.00/1,000		

SSTV Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74SSTVF32852ZKFR	296-18355-1-ND	24-Bit to 48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	4.95	3.96	3.08
74SSTVF32852ZKFR	296-18355-2-ND	24-Bit to 48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	2805.00/1,000		
SN74SSTV16857DGGR	296-13302-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	2.13	1.70	1.28
SN74SSTV16857DGGR	296-13302-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	2210.00/2,000		
SN74SSTV16857DGVR	296-12039-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	2.13	1.70	1.28
SN74SSTV16857DGVR	296-12039-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	2210.00/2,000		
SN74SSTV16859DGGR	296-13303-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	2.48	1.98	1.54
SN74SSTV16859DGGR	296-13303-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	2806.00/2,000		
SN74SSTV16859RGQ8	296-18828-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	2.48	1.98	1.54
SN74SSTV16859RGQ8	296-18828-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	2806.00/2,000		
SN74SSTV16859RGQR	296-14377-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	2.48	1.98	1.54
SN74SSTV16859RGQR	296-14377-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	2806.00/2,000		
SN74SSTV32852GKFR	296-13304-1-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	4.95	3.96	3.08
SN74SSTV32852GKFR	296-13304-2-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	2805.00/1,000		
SN74SSTV32852ZKFR	296-18829-1-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	4.95	3.96	3.08
SN74SSTV32852ZKFR	296-18829-2-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	2805.00/1,000		
SN74SSTV32867GKER	296-13305-1-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Outputs	96-LFBGA	5.50	4.40	3.72
SN74SSTV32867GKER	296-13305-2-ND	26-Bit Registered Buffer with SSTL_2 Inputs and LVCMOS Outputs	96-LFBGA	3438.00/1,000		
SN74SSTV32877GKER	296-13306-1-ND	26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	96-LFBGA	5.50	4.40	3.72
SN74SSTV32877GKER	296-13306-2-ND	26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	96-LFBGA	3438.00/1,000		
SN74SSTVF16857GR	296-13636-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	2.13	1.70	1.28
SN74SSTVF16857GR	296-13636-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TSSOP	2210.00/2,000		
SN74SSTVF16857VR	296-13637-1-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	2.13	1.70	1.28
SN74SSTVF16857VR	296-13637-2-ND	14-Bit Registered Buffer with SSTL_2 Inputs and Outputs	48-TVSOP	2210.00/2,000		

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

TEXAS INSTRUMENTS DIGITAL LOGIC *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
SN74SSTVF16859G4R	296-18719-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	5.13	4.11	3.20
SN74SSTVF16859G4R	296-18719-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	7182.50/2,500		
SN74SSTVF16859GR	296-18830-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	2.48	1.98	1.54
SN74SSTVF16859GR	296-18830-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	64-TSSOP	2806.00/2,000		
SN74SSTVF16859S8	296-18831-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	2.48	1.98	1.54
SN74SSTVF16859S8	296-18831-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	2806.00/2,000		
SN74SSTVF16859SR	296-18832-1-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	2.48	1.98	1.54
SN74SSTVF16859SR	296-18832-2-ND	13-26-Bit Registered Buffer with SSTL_2 Inputs and Outputs	56-QFN	2806.00/2,000		
SN74SSTVF32852KR	296-15612-1-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	4.95	3.96	3.08
SN74SSTVF32852KR	296-15612-2-ND	24-48-Bit Registered Buffer with SSTL_2 Inputs and Outputs	114-LFBGA	2805.00/1,000		

TTL Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN10KHT5541DW	296-9688-5-ND	Tri-State ECL to TTL Translator	24-SOIC	7.20	5.76	4.86
SN10KHT5541NT	296-9689-5-ND	Tri-State ECL to TTL Translator	24-Dip	7.20	5.76	4.86
SN7400N	296-14641-5-ND	Quad 2-Input NAND Gate	14-Dip	1.05	.88	.70
SN7404N	296-14642-5-ND	Hex Inverter	14-Dip	1.29	1.08	.86
SN7406D	296-1017-5-ND	Hex Inverter Buffer/Driver w/HV Output	14-SOIC	.96	.80	.64
SN7406DR	296-1017-1-ND	Hex Inverter Buffer/Driver w/HV Output	14-SOIC	.96	.80	.64
SN7406DR	296-1017-2-ND	Hex Inverter Buffer/Driver w/HV Output	14-SOIC	1040.00/2,500		
SN7406N	296-1435-5-ND	Hex Inverter Buffer/Driver w/HV Output	14-Dip	1.05	.88	.70
SN7407D	296-1018-5-ND	Hex Buffer/Driver with OC HV Output	14-SOIC	.96	.80	.64
SN7407DR	296-1018-1-ND	Hex Buffer/Driver with OC HV Output	14-SOIC	.96	.80	.64
SN7407DR	296-1018-2-ND	Hex Buffer/Driver with OC HV Output	14-SOIC	1040.00/2,500		
SN7407N	296-1436-5-ND	Hex Buffer/Driver with OC HV Output	14-Dip	.96	.80	.64
SN7414NSR	296-13127-1-ND	Hex Schmitt-Trigger Inverter	14-SOP	1.29	1.08	.86
SN7414NSR	296-13127-2-ND	Hex Schmitt-Trigger Inverter	14-SOP	1144.00/2,000		
SN7416N	296-14646-5-ND	Hex Inverter with OC HV Output	14-Dip	1.20	1.00	.80
SN7417N	296-14647-5-ND	Hex Buffer with OC HV Output	14-Dip	1.14	.95	.76
SN7438N	296-14648-5-ND	Quad 2-Input NAND Buffer	14-Dip	1.08	.90	.72
SN74128NSR	296-13126-1-ND	2-Input NOR Line Driver	14-SOP	1.35	1.08	.81
SN74128NSR	296-13126-2-ND	2-Input NOR Line Driver	14-SOP	1404.00/2,000		
SN74154N	296-8757-5-ND	4-Line to 16-Line Decoder/Demux	24-Dip	2.30	1.84	1.43

VMEH Family

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
SN74VMEH22501ADGGR	296-17565-1-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TSSOP	4.86	3.89	3.03
SN74VMEH22501ADGGR	296-17565-2-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TSSOP	5508.00/2,000		
SN74VMEH22501ADGVR	296-17566-1-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TVSOP	4.86	3.89	3.03
SN74VMEH22501ADGVR	296-17566-2-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	48-TVSOP	5508.00/2,000		
SN74VMEH22501AGQLR	296-17567-1-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	56-VFBGA	6.40	5.12	4.32
SN74VMEH22501AGQLR	296-17567-2-ND	8-Bit Universal Bus Transceiver and Two 1-Bit Bus Transceivers	56-VFBGA	4000.00/1,000		
SN74VMEH22501DGGR	296-13309-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	48-TSSOP	4.64	3.71	2.89
SN74VMEH22501DGGR	296-13309-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	48-TSSOP	5254.00/2,000		
SN74VMEH22501DGVR	296-13310-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	48-TVSOP	4.64	3.71	2.89
SN74VMEH22501DGVR	296-13310-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	48-TVSOP	5254.00/2,000		
SN74VMEH22501GQLR	296-13311-1-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	56-VFBGA	7.00	5.60	4.73
SN74VMEH22501GQLR	296-13311-2-ND	Tri-State, 8-Bit, Univ. Bus Transceiver and Two 1-Bit Bus Transceivers with Split LVTTL Port, and Feedback Path	56-VFBGA	4375.00/1,000		

TEXAS INSTRUMENTS DIGITAL RADIO

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
DIT4096IPW	DIT4096IPW-ND	5V, 96KHz Digital Audio Transmitter	28-TSSOP	3.49	2.79	2.17
DIT4192IPW	DIT4192IPW-ND	5V, 192KHz Digital Audio Transmitter	28-TSSOP	4.61	3.69	2.87
GC2011A-PB	296-12259-ND	Digital Filter	160-BGA	150.00	—	—
GC2011A-PQ	296-12260-ND	Digital Filter	160-QFP	150.00	—	—
GC4016-PB	296-12264-ND	Digital Quad Downconverter	160-PBGA	60.00	—	—
GC4116-PB	296-12266-ND	Digital Quad Upconverter	160-PBGA	72.00	—	—
GC5016-PB	296-15780-ND	Wideband, Quad Digital Down/Up Converter	252-PBGA	43.13	—	—
GC5016-PBZ	296-17306-ND	Wideband, Quad Digital Down/Up Converter	252-PBGA	43.13	—	—
GC5018IZDL	296-19311-ND	8-Ch. Wideband Receiver ***NEW!***	305-BGA	75.00	70.00	65.00

TEXAS INSTRUMENTS FIFO MEMORY

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PCA8550DBR	296-9630-1-ND	Non-Volatile 5-Bit Reg. w/I2C Interface	16-SSOP	1.38	1.10	.83
PCA8550DBR	296-9630-2-ND	Non-Volatile 5-Bit Reg. w/I2C Interface	16-SSOP	1430.00/2,000		
PCA8550DR	296-9631-1-ND	Non-Volatile 5-Bit Reg. w/I2C Interface	16-SOIC	1.38	1.10	.83
PCA8550DR	296-9631-2-ND	Non-Volatile 5-Bit Reg. w/I2C Interface	16-SOIC	1760.00/2,500		
PCA8550PWR	296-9632-1-ND	Non-Volatile 5-Bit Reg. w/I2C Interface	16-TSSOP	1.38	1.10	.83
PCA8550PWR	296-9632-2-ND	Non-Volatile 5-Bit Reg. w/I2C Interface	16-TSSOP	1430.00/2,000		
SN74ABT3612-15PCB	296-3984-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	15.18	13.67	12.12
SN74ABT3612-15PQ	296-3985-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.18	13.67	12.12
SN74ABT3612-20PCB	296-3986-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	14.96	13.47	11.95
SN74ABT3612-20PQ	296-3987-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	14.96	13.47	11.95
SN74ABT3612-30PCB	296-3988-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	15.73	14.16	12.56
SN74ABT3612-30PQ	296-3989-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.73	14.16	12.56
SN74ABT3614-15PCB	296-3996-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	15.18	13.67	12.12
SN74ABT3614-15PQ	296-3997-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.18	13.67	12.12
SN74ABT3614-20PCB	296-3998-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	14.96	13.47	11.95
SN74ABT3614-20PQ	296-3999-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	14.96	13.47	11.95
SN74ABT3614-30PCB	296-4000-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	120-HLQFP	15.73	14.16	12.56
SN74ABT3614-30PQ	296-4001-ND	64x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.73	14.16	12.56
SN74ABT7820-20PH	296-4082-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	17.82	16.64	15.45
SN74ABT7820-20PN	296-4083-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-LQFP	17.82	16.64	15.45
SN74ABT7820-25PH	296-4084-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	10.56	9.51	8.44
SN74ABT7820-25PN	296-4085-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-LQFP	10.56	9.51	8.44
SN74ABT7820-30PH	296-4086-ND	512x18x2 Bi-Dir. Async. FIFO Memory	80-QFP	15.35	14.33	13.30
SN74ACT2226DWR	296-15971-1-ND	Dual 64x1 FIFO Memory	24-SOIC	5.40	4.32	3.36
SN74ACT2226DWR	296-15971-2-ND	Dual 64x1 FIFO Memory	24-SOIC	6120.00/2,000		
SN74ACT2227DW	296-4371-5-ND	Dual 64x1 FIFO Memory	28-SOIC	5.40	4.32	3.36
SN74ACT2227DWR	296-15972-1-ND	Dual 64x1 FIFO Memory	28-SOIC	5.40	4.32	3.36
SN74ACT2227DWR	296-15972-2-ND	Dual 64x1 FIFO Memory	28-SOIC	3060.00/1,000		
SN74ACT2228DW	296-4372-5-ND	Dual 256x1 FIFO Memory	24-SOIC	5.40	4.32	3.36
SN74ACT2228DWR	296-15973-1-ND	Dual 256x1 FIFO Memory	24-SOIC	5.40	4.32	3.36
SN74ACT2228DWR	296-15973-2-ND	Dual 256x1 FIFO Memory	24-SOIC	6120.00/2,000		
SN74ACT2229DW	296-4373-5-ND	Dual 256x1 FIFO Memory	28-SOIC	6.00	4.80	4.05
SN74ACT2229DWR	296-15974-1-ND	Dual 256x1 FIFO Memory	28-SOIC	6.00	4.80	4.05
SN74ACT2229DWR	296-15974-2-ND	Dual 256x1 FIFO Memory	28-SOIC	3750.00/1,000		
SN74ACT2235-20PAG	296-4374-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	64-TQFP	17.82	16.64	15.45
SN74ACT2235-40FN	296-4375-5-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	44-PLCC	11.55	10.40	9.22
SN74ACT2235-60FN	296-4376-5-ND	1024x9x2 Bi-Dir. Async. FIFO Memory	44-PLCC	10.66	9.60	8.52
SN74ACT3622-20PCB	296-4392-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3622-20PQ	296-4393-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	17.82	16.64	15.45
SN74ACT3622-30PCB	296-4394-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	120-TQFP	15.35	14.33	13.30
SN74ACT3622-30PQ	296-4395-ND	256x36x2 Bi-Dir. Sync. FIFO Memory	132-BQFP	15.35	14.33	13.30
SN74ACT3631-20PCB	296-4398-ND	512x36 Clocked FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3631-20PQ	296-4399-ND	512x36 Clocked FIFO Memory	132-BQFP	17.82	16.64	15.45
SN74ACT3631-30PCB	296-4400-ND	512x36 Clocked FIFO Memory	120-TQFP	15.35	14.33	13.30
SN74ACT3631-30PQ	296-4401-ND	512x36 Clocked FIFO Memory	132-BQFP	15.35	14.33	13.30
SN74ACT3632-20PCB	296-4404-ND	512x36x2 Bi-Directional FIFO Memory	120-TQFP	17.82	16.64	15.45
SN74ACT3632-20PQ	296-4405-ND	512x36x2 Bi-Directional FIFO Memory	132-BQFP	17.82	16.64	15.45
SN74ACT3632-30PCB	296-4406-ND	512x36x2 Bi-Directional FIFO Memory	120-TQFP	15.35	14.33	13.30
SN74ACT3632-30PQ	296-4407-ND	512x36x2 Bi-Directional FIFO Memory	132-BQFP	15.35	14.33	13.30
SN74ACT3641-20PCB	296-4410-ND	1Kx36 Clocked FIFO Memory	120-TQFP	21.78	20.33	18.88
SN74ACT3641-20PQ	296-4411-ND	1Kx36 Clocked FIFO Memory	132-BQFP	21.78	20.33	18.88
SN74ACT3641-30PCB	296-4412-ND	1Kx36 Clocked FIFO Memory	120-TQFP	21.78	20.33	18.88
SN74ACT3641-30PQ	296-4413-ND	1Kx36 Clocked FIFO Memory	132-BQFP	21.78	20.33	18.88
SN74ACT3651-15PQ	296-4415-ND	2Kx36 Synchronous FIFO Memory	132-BQFP	30.69	28.65	26.60
SN74ACT3651-20PCB	296-4416-ND	2Kx36 Synchronous FIFO Memory	120-TQFP	24.75	23.10	21.45
SN74ACT3651-20PQ	296-4417-ND	2Kx36 Synchronous FIFO Memory	132-BQFP	24.75	23.10	21.45
SN74ACT3651-30PCB	296-4418-ND	2Kx36 Synchronous FIFO Memory	120-TQFP	22.28	20.79	19.31
SN74ACT3651-30PQ	296-4419-ND	2Kx36 Synchronous FIFO Memory	132-BQFP	22.28	20.79	19.31
SN74ACT7802-25FN	296-4447-ND	1Kx18 Strobed FIFO Memory	68-PLCC	10.56	9.51	8.44
SN74ACT7802-25PN	296-4448-ND	1Kx18 Strobed FIFO Memory	80-TQFP	10.56	9.51	8.44
SN74ACT7803-20DL	296-4450-5-ND	512x18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7803-25DL	296-4451-5-ND	512x18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7803-25DLR	296-4451-1-ND	512x18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7803-25DLR	296-4451-2-ND	512x18 Clocked FIFO Memory	56-SOP	4950.00/1,000		
SN74ACT7803-40DL	296-4452-5-ND	512x18 Clocked FIFO Memory	56-SOP	6.60	5.28	4.46
SN74ACT7804-20DL	296-4453-5-ND	512x18 Strobed FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7804-20DLR	296-15975-1-ND	512x18 Strobed FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ACT7804-20DLR	296-15975-2-ND	512x18 Strobed FIFO Memory	56-SSOP	4950.00/1,000		
SN74ACT7804-40DLR	296-4454-1-ND	512x18 Strobed FIFO Memory	56-SOP	6.60	5.28	4.46
SN74ACT7804-40DLR	296-4454-2-ND	512x18 Strobed FIFO Memory	56-SOP	4125.00/1,000		
SN74ACT7805-15DLR	296-15976-1-ND	256x18 Clocked FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ACT7805-15DLR	296-15976-2-ND	256x18 Clocked FIFO Memory	56-SSOP	4950.00/1,000		
SN74ACT7805-20DL	296-4456-5-ND	256x18 Clocked FIFO Memory	56-SOP	14.96	13.47	11.95
SN74ACT7805-25DLR	296-4457-1-ND	256x18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7805-25DLR	296-4457-2-ND	256x18 Clocked FIFO Memory	56-SOP	4950.00/1,000		
SN74ACT7805-40DL	296-4458-5-ND	256x18 Clocked FIFO Memory	56-SOP	5.94	4.76	4.01
SN74ACT7806-20DL	296-4459-5-ND	256x18 Strobed FIFO Memory	56-SOP	14.96	13.47	11.95
SN74ACT7807-20FN	296-4462-5-ND	2Kx9 Clocked FIFO Memory	44-PLCC	17.82	16.64	15.45
SN74ACT7807-20PAG	296-4463-ND	2Kx9 Clocked FIFO Memory	64-TQFP	17.82	16.64	15.45
SN74ACT7807-25FN	296-4464-5-ND	2Kx9 Clocked FIFO Memory	44-PLCC	10.56	9.51	8.44
SN74ACT7807-25PAG	296-4465-ND	2Kx9 Clocked FIFO Memory	64-TQFP	10.56	9.51	8.44
SN74ACT7807-40FN	296-4466-5-ND	2Kx9 Clocked FIFO Memory	44-PLCC	11.55	10.40	9.22
SN74ACT7807-40PAG	296-4467-ND	2Kx9 Clocked FIFO Memory	64-TQFP	11.55	10.40	9.22
SN74ACT7808-20FN	296-4468-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	17.82	16.64	15.45
SN74ACT7808-20PAG	296-4469-ND	2Kx9 Strobed FIFO Memory	64-TQFP	17.82	16.64	15.45
SN74ACT7808-25FN	296-4470-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	10.56	9.51	8.44
SN74ACT7808-25PAG	296-4471-ND	2Kx9 Strobed FIFO Memory	64-TQFP	10.56	9.51	8.44
SN74ACT7808-30FN	296-4472-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	15.35	14.33	13.30
SN74ACT7808-30PAG	296-4473-ND	2Kx9 Strobed FIFO Memory	64-TQFP	15.35	14.33	13.30
SN74ACT7808-40FN	296-4474-5-ND	2Kx9 Strobed FIFO Memory	44-PLCC	11.55	10.40	9.22
SN74ACT7808-40PAG	296-4475-ND	2Kx9 Strobed FIFO Memory	64-TQFP	11.55	10.40	9.22
SN74ACT7811-18FN	296-4478-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	17.82	16.64	15.45
SN74ACT7811-18PN	296-4479-ND	1Kx18 Clocked FIFO Memory	80-TQFP	17.82	16.64	15.45
SN74ACT7811-20FN	296-4480-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	13.74	12.38	10.98
SN74ACT7811-20PN	296-4481-ND	1Kx18 Clocked FIFO Memory	80-TQFP	13.74	12.38	10.98
SN74ACT7811-25FN	296-4482-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	10.62	9.60	8.52
SN74ACT7811-25PN	296-4483-ND	1Kx18 Clocked FIFO Memory	80-TQFP	10.66	9.60	8.52
SN74ACT7813-20DL	296-4485-5-ND	64x18 Clocked FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7813-25DL	296-4486-5-ND	64x18 Clocked FIFO Memory	56-SOP	7.26	5.81	4.91
SN74ACT7813-40DL	296-4487-5-ND	64x18 Clocked FIFO Memory	56-SOP	6.60	5.28	4.46
SN74ACT7814-20DL	296-4488-5-ND	64x18 Strobed FIFO Memory	56-SOP	7.92	6.34	5.35
SN74ACT7814-40DLR	296-4489-1-ND	64x18 Strobed FIFO Memory	56-SOP	6.60	5.28	4.46
SN74ACT7814-40DLR	296-4489-2-ND	64x18 Strobed FIFO Memory	56-SOP	4125.00/1,000		
SN74ACT7881-15FN	296-4490-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	17.82	16.64	15.45
SN74ACT7881-15PN	296-4491-ND	1Kx18 Clocked FIFO Memory	80-TQFP	17.82	16.64	15.45
SN74ACT7881-20FN	296-4492-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	17.82	16.64	15.45
SN74ACT7881-20PN	296-4493-ND	1Kx18 Clocked FIFO Memory	80-TQFP	17.82	16.64	15.45
SN74ACT7881-30FN	296-4494-5-ND	1Kx18 Clocked FIFO Memory	68-PLCC	15.35	14.33	13.30
SN74ACT7881-30PN	296-4495-ND	1Kx18 Clocked FIFO Memory	80-TQFP	15.35	14.33	13.30
SN74ACT7882-15FN	296-4496-5-ND	2Kx18 Clocked FIFO Memory	68-PLCC	22.28	20.79	19.31
SN74ACT7882-20FN	296-4498-5-ND	2Kx18 Clocked FIFO Memory	68-PLCC	22.28	20.79	19.31
SN74ACT7882-20PN	296-4499-ND	2Kx18 Clocked FIFO Memory	80-LQFP	22.28	20.79	19.31
SN74ACT7882-30FN	296-4500-5-ND	2Kx18 Clocked FIFO Memory	68-PLCC	20.79	19.41	18.02
SN74ACT7882-30PN	296-4501-ND	2Kx18 Clocked FIFO Memory	80-LQFP	20.79	19.41	18.02
SN74ALS232BN	296-5039-5-ND	16x4 Asynchronous FIFO Memory	16-Dip	5.40	4.32	3.36

(Continued)

Texas Instruments FIFO MEMORY *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74ALVC7803-20DL	296-5161-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7803-20DLR	296-15978-1-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7803-20DLR	296-15978-2-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	4950.00/1,000		
SN74ALVC7803-25DL	296-5162-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7803-40DL	296-5163-5-ND	512x18, 3.3V Sync. FIFO Memory	56-SSOP	6.60	5.28	4.46
SN74ALVC7804-25DL	296-5164-5-ND	512x18, 3.3V Async. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7805-20DLR	296-15979-1-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	14.96	13.47	11.95
SN74ALVC7805-20DLR	296-15979-2-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	11090.30/1,000		
SN74ALVC7805-25DL	296-5166-5-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7805-40DL	296-5167-5-ND	256x18, 3.3V Sync. FIFO Memory	56-SSOP	5.94	4.76	4.01
SN74ALVC7806-25DL	296-5168-5-ND	256x18, 3.3V Async. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7813-20DL	296-5169-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7813-20DLR	296-15980-1-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	7.92	6.34	5.35
SN74ALVC7813-20DLR	296-15980-2-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	4950.00/1,000		
SN74ALVC7813-25DL	296-5170-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	7.26	5.81	4.91
SN74ALVC7813-40DL	296-5171-5-ND	64x18, 3.3V Sync. FIFO Memory	56-SSOP	6.60	5.28	4.46
SN74ALVC7814-25DL	296-5172-5-ND	64x18, 3.3V Async. FIFO Memory	56-SSOP	7.26	5.81	4.91
SN74ALVC7814-40DL	296-5173-5-ND	64x18, 3.3V Async. FIFO Memory	56-SSOP	6.60	5.28	4.46
SN74V215-7PAG	296-9897-ND	512x18 Sync. FIFO Memory	64-TQFP	8.36	6.69	5.65
SN74V215-10PAG	296-9894-ND	512x18 Sync. FIFO Memory	64-TQFP	8.00	6.40	5.40
SN74V215-15PAG	296-9895-ND	512x18 Sync. FIFO Memory	64-TQFP	7.66	6.13	5.18
SN74V225-7PAG	296-9901-ND	1024x18 Sync. FIFO Memory	64-TQFP	9.38	7.51	6.34
SN74V225-10PAG	296-9898-ND	1024x18 Sync. FIFO Memory	64-TQFP	9.04	7.24	6.11
SN74V225-15PAG	296-9899-ND	1024x18 Sync. FIFO Memory	64-TQFP	8.70	6.96	5.88
SN74V225-20PAG	296-9900-ND	1024x18 Sync. FIFO Memory	64-TQFP	8.36	6.69	5.65
SN74V235-7PAG	296-9905-ND	2048x18 Sync. FIFO Memory	64-TQFP	8.81	7.94	7.04
SN74V235-10PAG	296-9902-ND	2048x18 Sync. FIFO Memory	64-TQFP	8.53	7.68	6.81
SN74V235-15PAG	296-9903-ND	2048x18 Sync. FIFO Memory	64-TQFP	9.90	7.92	6.69
SN74V235-20PAG	296-9904-ND	2048x18 Sync. FIFO Memory	64-TQFP	9.56	7.65	6.46
SN74V245-7PAG	296-9909-ND	4096x18 Sync. FIFO Memory	64-TQFP	9.65	8.69	7.71
SN74V245-15PAG	296-9907-ND	4096x18 Sync. FIFO Memory	64-TQFP	9.08	8.18	7.25
SN74V245-20PAG	296-9908-ND	4096x18 Sync. FIFO Memory	64-TQFP	8.81	7.94	7.04
SN74V263-6PZA	296-12479-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	22.37	20.88	19.39
SN74V263-7GGM	296-15723-5-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	32.91	30.72	28.53
SN74V263-7PZA	296-12480-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	21.74	20.29	18.84
SN74V263-10PZA	296-12477-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	21.11	19.70	18.30
SN74V263-15PZA	296-12478-ND	8192x18, 3.3V Sync. FIFO Memory	80-TQFP	20.46	19.10	17.74
SN74V273-6PZA	296-12483-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	24.30	22.68	21.06
SN74V273-7PZA	296-12484-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	23.66	22.08	20.51
SN74V273-10PZA	296-12481-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	23.01	21.48	19.95
SN74V273-15PZA	296-12482-ND	16384x18, 3.3V Sync. FIFO Memory	80-TQFP	22.37	20.88	19.39
SN74V283-6PZA	296-12487-ND	32768x18, 3.3V Sync. FIFO Memory	80-TQFP	26.22	24.48	22.73
SN74V293-6GGM	296-18205-ND	65536x18, 3.3V Sync. FIFO Memory	100-BGA	40.77	38.06	35.34
SN74V293-6PZA	296-12491-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	28.13	26.25	24.38
SN74V293-7PZA	296-12492-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	27.50	25.67	23.83
SN74V293-10PZA	296-12489-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	26.85	25.06	23.27
SN74V293-15PZA	296-12490-ND	65536x18, 3.3V Sync. FIFO Memory	80-TQFP	26.22	24.48	22.73
SN74V3640-7PEU	296-14940-ND	1024x36, 3.3V FIFO CMOS Memory	128-LQFP	18.35	17.13	15.90
SN74V3650-7PEU	296-14941-ND	2048x36, 3.3V FIFO CMOS Memory	128-LQFP	19.97	18.64	17.31
SN74V3660-7PEU	296-14942-ND	4096x36, 3.3V FIFO CMOS Memory	128-LQFP	21.74	20.29	18.84
SN74V3680-7PEU	296-14944-ND	16384x36, 3.3V FIFO CMOS Memory	128-LQFP	25.58	23.87	22.17
SN74V3690-6PEU	296-14945-ND	32768x36, 3.3V FIFO CMOS Memory	128-LQFP	28.13	26.25	24.38

Texas Instruments FILTERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC04ID	296-10230-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	2.59	2.07	1.61
TLC14CD	296-10239-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	2.38	1.90	1.43
TLC14ID	296-10240-5-ND	Butterworth Switched-Capacitor Filter	8-SOIC	2.25	1.80	1.40
UAF42AP	UAF42AP-ND	Universal Active Filter, -108db THD	14-Dip	12.58	11.33	10.05
UAF42AU	UAF42AU-ND	Universal Active Filter	16-SOIC	12.58	11.33	10.05

Texas Instruments INTEGRATORS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ACF2101BU	ACF2101BU-ND	Low Noise, Dual, Switched Integrator	24-SOIC	23.33	21.77	20.22
IVC102U	IVC102U-ND	Prec. Switched Integrator Trans. Amp	14-SOIC	9.10	7.28	6.15

Texas Instruments I/O EXPANDERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PCF8574ADGVR	296-17437-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TVSOP	1.88	1.50	1.13
PCF8574ADGVR	296-17437-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TVSOP	1950.00/2,000		
PCF8574ADWR	296-13105-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	1.88	1.50	1.13
PCF8574ADWR	296-13105-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	1950.00/2,000		
PCF8574AN	296-13106-5-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-Dip	1.88	1.50	1.13
PCF8574APWR	296-13107-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	1.88	1.50	1.13
PCF8574APWR	296-13107-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	1950.00/2,000		
PCF8574ARGYR	296-15150-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-QFN	2.00	1.60	1.20
PCF8574ARGYR	296-15150-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-QFN	1040.00/1,000		
PCF8574DGVR	296-17364-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TVSOP	1.88	1.50	1.13
PCF8574DGVR	296-17364-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TVSOP	1950.00/2,000		
PCF8574DWR	296-13108-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	1.88	1.50	1.13
PCF8574DWR	296-13108-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-SOIC	1950.00/2,000		
PCF8574N	296-13109-5-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-Dip	1.88	1.50	1.13
PCF8574PWR	296-13110-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	1.88	1.50	1.13
PCF8574PWR	296-13110-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	20-TSSOP	1950.00/2,000		
PCF8574RGYR	296-15173-1-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-QFN	2.00	1.60	1.20
PCF8574RGYR	296-15173-2-ND	8-Bit, Remote I/O Expander for I^{2}C Bus	16-QFN	1040.00/1,000		
PCF8575CDBQR	296-17913-1-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-QSOP	2.03	1.62	1.26
PCF8575CDBQR	296-17913-2-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-QSOP	2835.00/2,500		
PCF8575CDGVR	296-17914-1-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-TVSOP	2.03	1.62	1.26
PCF8575CDGVR	296-17914-2-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-TVSOP	2296.00/2,000		
PCF8575CDWR	296-17915-1-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-SOIC	2.03	1.62	1.26
PCF8575CDWR	296-17915-2-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-SOIC	2296.00/2,000		
PCF8575CPWR	296-17916-1-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-TSSOP	2.03	1.62	1.26
PCF8575CPWR	296-17916-2-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-TSSOP	2296.00/2,000		
PCF8575DBQR	296-17806-1-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-QSOP	2.03	1.62	1.26
PCF8575DBQR	296-17806-2-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-QSOP	2835.00/2,500		
PCF8575DBR	296-17856-1-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-SSOP	2.03	1.62	1.26
PCF8575DBR	296-17856-2-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-SSOP	2296.00/2,000		
PCF8575DGVR	296-17792-1-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-TVSOP	2.03	1.62	1.26
PCF8575DGVR	296-17792-2-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-TVSOP	2296.00/2,000		
PCF8575PWR	296-17807-1-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-TSSOP	2.03	1.62	1.26
PCF8575PWR	296-17807-2-ND	16-Bit, Remote I/O Expander for I^{2}C AND SMBus	24-TSSOP	2296.00/2,000		
PCA9535RGER	296-19548-1-ND	16-Bit Remote I^{2}C AND SMBus, Low Power I/O Expander ***NEW!***	24-QFN	2.30	1.84	1.38
PCA9535RGER	296-19548-2-ND	16-Bit Remote I^{2}C AND SMBus, Low Power I/O Expander ***NEW!***	24-QFN	3534.00/3,000		
PCA9539DBQR	296-19266-1-ND	16-Bit Remote I^{2}C AND SMBus, Low Power I/O Expander ***NEW!***	24-QSOP	2.39	1.91	1.49
PCA9539DBQR	296-19266-2-ND	16-Bit Remote I^{2}C AND SMBus, Low Power I/O Expander ***NEW!***	24-QSOP	3307.50/2,500		
PCA9539RGER	296-19549-1-ND	16-Bit Remote I^{2}C AND SMBus, Low Power I/O Expander ***NEW!***	24-QFN	2.36	1.89	1.47
PCA9539RGER	296-19549-2-ND	16-Bit Remote I^{2}C AND SMBus, Low Power I/O Expander ***NEW!***	24-QFN	3969.00/3,000		
PCA9555RGER	296-19591-1-ND	16-Bit Remote I^{2}C AND SMBus, I/O Expander ***NEW!***	24-QFN	2.39	1.91	1.49
PCA9555RGER	296-19591-2-ND	16-Bit Remote I^{2}C AND SMBus, I/O Expander ***NEW!***	24-QFN	4008.00/3,000		
PCA9557RGYR	296-19472-1-ND	8-Bit Remote I^{2}C AND SMBus Low Power I/O Expander ***NEW!***	16-QFN	1.75	1.40	1.05
PCA9557RGYR	296-19472-2-ND	8-Bit Remote I^{2}C AND SMBus Low Power I/O Expander ***NEW!***	16-QFN	910.00/1,000		

Texas Instruments LINEAR PERIPHERAL DRIVERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DS3680D	296-9484-5-ND	Quad Telephone Relay Driver	14-SOIC	.84	.70	.56
DS3680N	296-9485-5-ND	Quad Telephone Relay Driver	14-Dip	.90	.75	.60
SN75437ANE	296-14959-5-ND	Quad Peripheral Driver	16-Dip	2.20	1.76	1.32
SN754410NE	296-9911-5-ND	Quad Half-H Driver	16-Dip	1.88	1.50	1.13
SN75451BD	296-9912-5-ND	Dual High Speed Peripheral Driver	8-SOIC	.80	.60	.45
SN75451BDR	296-14960-1-ND	Dual High Speed Peripheral Driver	8-SOIC	.80	.60	.45
SN75451BDR	296-14960-2-ND	Dual High Speed Peripheral Driver	8-SOIC	650.00/2,500		
SN75451BP	296-1746-5-ND	Dual High Speed Peripheral Driver	8-Dip	.80	.60	.45
SN75452BDR	296-14961-1-ND	Dual High Speed Peripheral Driver	8-SOIC	.80	.60	.45
SN75452BDR	296-14961-2-ND	Dual High Speed Peripheral Driver	8-SOIC	650.00/2,500		
SN75452BP	296-1747-5-ND	Dual High Speed Peripheral Driver	8-Dip	.80	.60	.45
SN75453BD	296-9913-5-ND	Dual High Speed Peripheral Driver	8-SOIC	.80	.60	.45
SN75453BDR	296-9913-1-ND	Dual High Speed Peripheral Driver	8-SOIC	.80	.60	.45
SN75453BDR	296-9913-2-ND	Dual High Speed Peripheral Driver	8-SOIC	650.00/2,500		
SN75453BP	296-1748-5-ND	Dual High Speed Peripheral Driver	8-Dip	.80	.60	.45
SN75454BP	296-9914-5-ND	Dual High Speed Peripheral Driver	8-Dip	.80	.60	.45
SN75462P	296-9915-5-ND	Dual Peripheral Driver	8-Dip	1.14	.95	.76
SN75463P	296-9916-5-ND	Dual Peripheral Driver	8-Dip	1.35	1.13	.90
SN75468N	296-9917-5-ND	High Voltage Darlington Transistor Array	16-Dip	.75	.63	.50
SN75469N	296-9918-5-ND	High Voltage Darlington Transistor Array	16-Dip	.80	.60	.45
SN75471P	296-9919-5-ND	Dual Peripheral Driver	8-Dip	.80	.60	.45
SN75477DR	296-14962-1-ND	Dual Peripheral Driver	8-SOIC	.80	.60	.45
SN75477DR	296-14962-2-ND	Dual Peripheral Driver	8-SOIC	650.00/2,500		
SN75477P	296-9920-5-ND	Dual Peripheral Driver	8-Dip	.80	.60	.45
SN75472P	296-1749-5-ND	Dual Peripheral Driver	8-Dip	.80	.60	.45
TLC5904PZP	296-2378-ND	Constant Current LED Driver	100-HTQFP	7.40	5.92	5.00
TLC5905PAP	296-2379-ND	Constant Current LED Driver	64-HTQFP	5.70	4.56	3.85
TLC5911PZP	296-2381-ND	Constant Current LED Driver	100-HTQFP	9.00	7.20	6.08
TLC5920DL	296-10348-5-ND	LED Driver with Shift Register	48-SSOP	2.48	1.98	1.54
TLC5921DAP	296-10349-5-ND	LED Driver with Shift Register	32-HTSSOP	2.68	2.15	1.67
TLC5922DAP	296-15843-5-ND	16-Channel LED Driver	32-HTSSOP	3.04	2.43	1.89
TLC5923DAP	296-17731-5-ND	16-Channel LED Driver	32-HTSSOP	3.15	2.52	1.96
TLC5923RHB	296-19333-ND	16-Channel LED Driver ***NEW!***	32-QFN	3.15	2.52	1.96
TLC5923RHBT	296-19334-1-ND	16-Channel LED Driver ***NEW!***	32-QFN	3.49	2.79	2.17
TLC5923RHBT	296-19334-2-ND	16-Channel LED Driver ***NEW!***	32-QFN	515.50/250		
TLC5930PWP	296-15631-5-ND	12-Channel LED Driver	24-HTSSOP	8.30	6.64	5.61
TLC5940PWP	296-17733-5-ND	16-Channel LED Driver	28-HTSSOP	4.28	3.42	2.66
TLC5940RHB	296-18021-ND	16-Channel LED Driver	32-QFN	4.28	3.42	2.66
TPIC2810D	296-13746-5-ND	8-Bit, LED Driver with I^{2}C Interface	16-SOIC	2.15	1.72	1.29
ULN2003AD	296-1368-5-ND	Darlington Transistor Array	16-SOIC	.64	.48	.36
ULN2003ADR	296-1368-1-ND	Darlington Transistor Array	16-SOIC	.64	.48	.36
ULN2003ADR	296-1368-2-ND	Darlington Transistor Array	16-SOIC	520.00/2,500		
ULN2003AIDR	296-15407-1-ND	Darlington Transistor Array	16-SOIC	.64	.48	.36
ULN2003AIDR	296-15407-2-ND	Darlington Transistor Array	16-SOIC	520.00/2,500		
ULN2003AIN	296-16971-5-ND	Darlington Transistor Array	16-Dip	.64	.48	.36
ULN2003AIPWR	296-17785-1-ND	Darlington Transistor Array	16-TSSOP	.64	.48	.36
ULN2003AIPWR	296-17785-2-ND	Darlington Transistor Array	16-TSSOP	426.00/2,000		
ULN2003AN	296-1979-5-ND	Darlington Transistor Array	16-Dip	.64	.48	.36
ULN2004AD	296-12965-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.64	.48	.36
ULN2004ADR	296-15067-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.64	.48	.36
ULN2004ADR	296-15067-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	520.00/2,500		
ULN2004AIDR	296-17022-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	.64	.48	.36

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

TEXAS INSTRUMENTS LINEAR PERIPHERAL DRIVERS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ULN2004AIDR	296-17022-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOIC	520.00/2,500		
ULN2004AIN	296-17051-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-Dip	.64	.48	.36
ULN2004AINSR	296-17023-1-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOP	.64	.48	.36
ULN2004AINSR	296-17023-2-ND	High-Voltage, High-Current Darlington Transistor Array	16-SOP	426.00/2,000		
ULN2004AN	296-1980-5-ND	High-Voltage, High-Current Darlington Transistor Array	16-Dip	.64	.48	.36
ULN2803AN	296-19046-5-ND	Darlington Transistor Array	18-Dip	1.35	1.13	.90
ULN2803ADWR	296-15777-1-ND	Darlington Transistor Array	18-SOIC	.75	.63	.50
ULN2803ADWR	296-15777-2-ND	Darlington Transistor Array	18-SOIC	666.00/2,000		
ULQ2003ADR	296-11570-1-ND	Darlington Transistor Array	16-SOIC	1.08	.90	.72
ULQ2003ADR	296-11570-2-ND	Darlington Transistor Array	16-SOIC	1170.00/2,500		
ULQ2003ATDRQ1	296-14395-1-ND	Darlington Transistor Array	16-SOIC	2.38	1.90	1.43
ULQ2003ATDRQ1	296-14395-2-ND	Darlington Transistor Array	16-SOIC	3040.00/2,500		
ULQ2004ADR	296-13535-1-ND	High-Voltage High-Current Darlington Transistor Array	16-SOIC	1.08	.90	.72
ULQ2004ADR	296-13535-2-ND	High-Voltage High-Current Darlington Transistor Array	16-SOIC	1170.00/2,500		
ULQ2004AN	296-15700-5-ND	High-Voltage High-Current Darlington Transistor Array	16-Dip	.74	.56	.42

TEXAS INSTRUMENTS MULTIPLEXERS

Analog Multiplexers/Multipliers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MPC506AP	MPC506AP-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	28-Dip	9.03	8.13	7.21
MPC506AU	MPC506AU-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	28-SOIC	9.03	8.13	7.21
MPC507AP	MPC507AP-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	28-Dip	9.03	8.13	7.21
MPC507AU	MPC507AU-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	28-SOIC	9.03	8.13	7.21
MPC508AP	MPC508AP-ND	8-Ch./4-Ch. CMOS Analog Multiplexer	16-Dip	5.32	4.26	3.60
MPC508AU	MPC508AU-ND	Single Ended 16-Ch./Diff. 8-Ch. CMOS	16-SOIC	5.32	4.26	3.60
MPC509AP	MPC509AP-ND	Single Ended 8-Ch./Diff. 4-Ch. CMOS	16-Dip	5.32	4.26	3.60
MPC509AU	MPC509AU-ND	Single Ended 8-Ch./Diff. 4-Ch. CMOS	16-SOIC	5.90	4.72	3.99
MPY634KP	MPY634KP-ND	Wideband Precision Analog Multiplier	14-Dip	17.63	16.45	15.28
MPY634KU	MPY634KU-ND	Wideband Precision Analog Multiplier	16-SOIC	19.73	18.41	17.10

TEXAS INSTRUMENTS OPTICAL SENSORS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
OPT101P	OPT101P-ND	Mono Photodiode Transimpedance Amp	8-Dip	5.50	4.40	3.72
OPT101P-J	OPT101P-J-ND	Mono Photodiode Transimpedance Amp	8-SMD	5.50	4.40	3.72
OPT301M	OPT301M-ND	Integrated Photodiode and Amplifier	TO-99-8	58.53	54.63	50.73

TEXAS INSTRUMENTS POWER CONTROL/ MANAGEMENT PRODUCTS

CCFL Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC2972N	296-2256-5-ND	CCFL Driver Controller	8-Dip	5.63	4.50	3.50
UCC2973PW	296-13533-5-ND	BiCMOS CCFL Driver Controller	8-TSSOP	6.00	4.80	4.05
UCC3972N	296-6764-5-ND	BiCMOS CCFL Driver Controller	8-Dip	5.63	4.50	3.50
UCC3972PW	296-2257-5-ND	CCFL Driver Controller	8-TSSOP	5.63	4.50	3.50
UCC3973PW	296-6765-5-ND	BiCMOS CCFL Driver Controller	8-SOP	6.00	4.80	4.05

Hot Plug

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
HPC3130APBK	296-9510-ND	Hot Plug Controller	128-LQFP	15.59	14.04	12.45
HPC3130APEM	296-9511-ND	Hot Plug Controller	120-QFP	15.59	14.04	12.45
HPC3130APGE	296-9512-ND	Hot Plug Controller	144-LQFP	15.59	14.04	12.45
HPC3130PBK	296-9513-ND	Hot Plug Controller	128-LQFP	15.59	14.04	12.45
HPC3130PBM	296-9514-ND	Hot Plug Controller	120-QFP	15.59	14.04	12.45
TPS2340APFP	296-15639-ND	Dual Slot PCI Hot Plug Power Controller	80-HTQFP	12.25	11.03	9.78
TPS2342PFP	296-17347-ND	Dual Slot PCI-X 2.0 Hot Plug Power Controller	80-HTQFP	11.66	10.50	9.31
TPS2343DDP	296-18062-5-ND	Dual Slot PCI-X 2.0 Hot Plug Power Controller	80-HTSSOP	12.50	11.25	9.98

Hot-Swap

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2300IPW	296-2319-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.60	2.88	2.24
TPS2301IPW	296-2320-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.60	2.88	2.24
TPS2306DW	296-11642-5-ND	Dual Hot-Swap Power Controller	16-SOIC	3.60	2.88	2.24
TPS2310IPW	296-2321-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.60	2.88	2.24
TPS2311IPW	296-2322-5-ND	Dual Hot-Swap Power Controller	20-TSSOP	3.60	2.88	2.24
TPS2320ID	296-6766-5-ND	Dual Hot-Swap Power Controller	16-SOIC	3.04	2.43	1.89
TPS2320IPW	296-2323-5-ND	Dual Hot-Swap Power Controller	16-TSSOP	3.04	2.43	1.89
TPS2321ID	296-6767-5-ND	Dual Hot-Swap Power Controller	16-SOIC	3.04	2.43	1.89
TPS2321IPW	296-2324-5-ND	Dual Hot-Swap Power Controller	16-TSSOP	3.04	2.43	1.89
TPS2330ID	296-6768-5-ND	Single Hot-Swap Power Controller	14-SOIC	2.81	2.25	1.75
TPS2330IPW	296-2325-5-ND	Hot-Swap Power Controller	14-TSSOP	2.81	2.25	1.75
TPS2331ID	296-6769-5-ND	Single Hot-Swap Power Controller	14-SOIC	2.81	2.25	1.75
TPS2331IPW	296-2326-5-ND	Hot-Swap Power Controller	14-TSSOP	2.81	2.25	1.75
TPS2345PW	296-12714-5-ND	Hot-Swap Power Manager	24-TSSOP	7.40	5.92	5.00
TPS2346PW	296-12956-5-ND	Optical Network Hot-Swap Power Manager	24-TSSOP	7.40	5.92	5.00
TPS2350D	296-16959-5-ND	Hot-Swap Power Manager	14-SOIC	4.28	3.42	2.66
TPS2350PW	296-18941-5-ND	Hot Swap Power Manager	14-TSSOP	4.50	3.60	2.80
TPS2390DGK	296-13511-5-ND	Simple Negative 48V Hot-Swap Controller	8-VSSOP	2.25	1.80	1.40
TPS2391DGK	296-13512-5-ND	Simple Negative 48V Hot-Swap Controller	8-VSSOP	2.25	1.80	1.40
TPS2392EVM	296-18942-ND	Evaluation Module for TPS2392	—	62.78	—	—
TPS2392PW	296-13668-5-ND	Full Featured Negative 48V Hot-Swap Power Manager	14-TSSOP	4.05	3.24	2.52
TPS2393APW	296-17247-ND	Full Featured Negative 48V Hot-Swap Power Manager	14-TSSOP	4.05	3.24	2.52
TPS2393DBT	296-17388-ND	Full Featured Negative 48V Hot-Swap Power Manager	44-TSSOP	4.61	3.69	2.87
TPS2393EVM	296-18943-ND	Evaluation Module for TPS2393	—	62.78	—	—
TPS2393PW	296-13669-5-ND	Full Featured Negative 48V Hot-Swap Power Manager	14-TSSOP	4.05	3.24	2.52
TPS2398DGK	296-15731-5-ND	Neg. 48V Hot-Swap Power Manager	8-MSOP	2.68	2.15	1.67
TPS2398EVM	296-18944-ND	Evaluation Module for TPS2398	—	62.78	—	—
TPS2399DGK	296-15732-5-ND	Neg. 48V Hot-Swap Power Manager	8-MSOP	2.68	2.15	1.67
TPS2399EVM	296-18945-ND	Evaluation Module for TPS2399	—	62.78	—	—
TPS2490EVM-001	296-18946-ND	Evaluation Module for TPS2490-001	—	62.78	—	—
TPS2491EVM-002	296-18947-ND	Evaluation Module for TPS2491-002	—	62.78	—	—
TPS2491DGS	296-16906-ND	Positive High-Volt. Power-Limiting Hot-Swap Controller	10-MSOP	3.83	3.06	2.38
UC2914DW	296-12245-5-ND	5V to 35V Hot-Swap Power Manager	18-SOIC	10.30	8.24	6.96
UC2914N	296-2502-5-ND	5V to 35V Hot-Swap Power Manager	18-Dip	8.58	7.73	6.85
UC3914DW	296-11347-5-ND	5V to 35V Hot-Swap Power Manager	18-SOIC	8.60	6.88	5.81
UC3914N	296-2327-5-ND	5V to 35V Hot-Swap Power Manager	18-Dip	8.60	6.88	5.81
UCC2912DP	296-16715-5-ND	Prog. Hot-Swap Power Manager	16-SOIC	5.40	4.32	3.65
UCC2912PWP	296-16716-ND	Prog. Hot-Swap Power Manager	24-TSSOP	5.40	4.32	3.65
UCC2913D	296-2328-5-ND	Neg. Volt Hot-Swap Power Manager	8-SOIC	3.71	2.97	2.31
UCC2913N	296-12247-5-ND	Neg. Volt Hot-Swap Power Manager	8-Dip	3.71	2.97	2.31
UCC2915DP	296-2329-5-ND	15V Hot-Swap Prog. Power Manager	16-SOIC	8.30	6.64	5.61
UCC2917D	296-2330-5-ND	Pos. Floating Hot-Swap Power Manager	16-SOIC	5.06	4.05	3.15
UCC2917N	296-12249-5-ND	Pos. Floating Hot-Swap Power Manager	16-Dip	5.06	4.05	3.15
UCC2919D	296-2331-5-ND	3V to 8V Hot-Swap Power Manager	16-SOIC	5.60	4.48	3.78
UCC2919PW	296-12251-5-ND	3V to 8V Hot-Swap Power Manager	16-TSSOP	5.60	4.48	3.78
UCC2921D	296-2332-5-ND	Latching Negative Floating Hot-Swap Power Manager	8-SOIC	4.16	3.33	2.59
UCC3912DP	296-2333-5-ND	Prog. Hot-Swap Power Manager	16-SOIC	5.18	4.14	3.22
UCC3912PWP	296-12031-5-ND	Prog. Hot-SwapPower Manager	24-HTSSOP	5.18	4.14	3.22
UCC3913D	296-2335-5-ND	Negative Volt. Hot-Swap Power Manager	8-SOIC	3.38	2.70	2.10
UCC3913N	296-6770-5-ND	Negative Volt. Hot-Swap Power Manager	8-Dip	3.38	2.70	2.10
UCC3915DP	296-2336-5-ND	15V Programmable Hot-Swap Power Manager	16-SOIC	5.10	4.08	3.45
UCC3915N	296-6771-5-ND	7-15V Prog. Hot-Swap Power Manager	16-Dip	5.10	4.08	3.45
UCC3915PWP	296-6772-5-ND	7-15V Prog. Hot-Swap Power Manager	24-HTSSOP	5.10	4.08	3.45
UCC39161DP	296-6773-5-ND	4-6V Low Current High-Side Power Manager	8-SOIC	5.30	4.24	3.58
UCC3917D	296-2337-5-ND	Positive Floating Hot-Swap Power Manager	16-SOIC	4.16	3.33	2.59
UCC3917N	296-6774-5-ND	Positive Floating Hot-Swap Power Manager	16-Dip	4.16	3.33	2.59
UCC3918DP	296-2338-5-ND	Low On-Resistance Hot-Swap Power Manager	16-SOIC	5.29	4.23	3.29
UCC3919D	296-2339-5-ND	3V to 8V Hot-Swap Power Manager	16-SOIC	5.29	4.23	3.29
UCC3919PW	296-6777-5-ND	Single Hot-Swap Power Controller	16-TSSOP	5.29	4.23	3.29
UCC3921D	296-2340-5-ND	Neg. Floating Hot-Swap Power Manager	8-SOIC	3.60	2.88	2.24
UCC3921N	296-6779-5-ND	Negative Latchable Floating Hot-Swap Power Manager	8-Dip	3.60	2.88	2.24
UCC39151PWPTR	296-11995-1-ND	7-15V Programmable Hot-Swap Power Manager	24-HTSSOP	9.16	8.25	7.32
UCC39151PWPTR	296-11995-2-ND	7-15V Programmable Hot-Swap Power Manager	24-HTSSOP	13586.00/2,000		

Peripheral

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2363PFB	296-19556-ND	PCIExpress Server Dual Slot Hot Plug Controller ***NEW!***	48-TQFP	4.73	3.78	2.94
TPS2370D	296-15039-5-ND	Power Interface Switch	8-SOIC	3.83	3.06	2.38
TPS2370PW	296-15040-5-ND	Power Interface Switch	8-TSSOP	3.83	3.06	2.38
TPS2375D	296-17061-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	2.25	1.80	1.40
TPS2375EVM	296-17039-ND	Power-Over-Ethernet Powered Device Evaluation Module	—	167.40	—	—
TPS2375PW	296-17062-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	2.25	1.80	1.40
TPS2375PW-1	296-17903-5-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	2.81	2.25	1.75
TPS2376D	296-17063-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	2.25	1.80	1.40
TPS2376PW	296-17064-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	2.25	1.80	1.40
TPS2377D	296-17065-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	2.25	1.80	1.40
TPS2377D-1	296-17904-5-ND	IEEE 802.3af PoE Powered Controller	8-SOIC	2.81	2.25	1.75
TPS2377PW	296-17066-ND	IEEE 802.3af PoE Powered Controller	8-TSSOP	2.25	1.80	1.40
TPS2384PJD	296-19557-ND	Quad Integrated Power Sourcing Equipment Power Manager ***NEW!***	64-TQFP	7.80	6.24	5.27
TPS65160APWPR	296-18305-1-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	4.50	3.60	2.80
TPS65160APWPR	296-18305-2-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	5100.00/2,000		
TPS65160PWPR	296-17905-1-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	4.50	3.60	2.80
TPS65160PWPR	296-17905-2-ND	Bias Power Supply for TV and Monitor TFT LCD Panels	28-TSSOP	5100.00/2,000		
TPS65520ZVDR	296-18342-1-ND	Power Management IC for Digital Still Camera	113-BGA	7.90	6.32	5.34
TPS65520ZVDR	296-18342-2-ND	Power Management IC for Digital Still Camera	113-BGA	12245.00/2,500		
TPS65560RGTR	296-19478-1-ND	Integrated Photo Flash Charger and IGBT Driver ***NEW!***	16-QFN	2.13	1.70	1.28
TPS65560RGTR	296-19478-2-ND	Integrated Photo Flash Charger and IGBT Driver ***NEW!***	16-QFN	3264.00/3,000		
TPS75003RHLR	296-17835-1-ND	Triple Supply Power Management IC	20-QFN	4.28	3.42	2.66
TPS75003RHLR	296-17835-2-ND	Triple Supply Power Management IC	20-QFN	7182.00/3,000		
TPS75003RHLT	296-19438-1-ND	Triple Supply Power Mgmt IC ***NEW!***	20-QFN	4.73	3.78	2.94
TPS75003RHLT	296-19438-2-ND	Triple Supply Power Mgmt IC ***NEW!***	20-QFN	698.25/250		
UC563DP	296-11362-5-ND	32-Line VME Bus Bias Generator	8-SOIC	5.06	4.05	3.15
UC5601QP	296-11357-5-ND	18-Line 5V SE Terminator for SCSI and Fast SCSI	28-PLCC	8.26	6.61	5.58
UC5603DP	296-11359-5-ND	9-Line 5V SE Terminator for SCSI and Fast SCSI	16-SOIC	5.24	4.20	3.27
UCC3916DP	296-2255-5-ND	SCSI Termpower Manager	8-SOIC	3.83	3.06	2.38
UCC5510MWP	296-6730-5-ND	9-Line SCSI Multi Terminator	36-SOP	4.07	3.26	2.54
UCC5519PWP	296-15066-5-ND	9-Line SCSI Multi Terminator	28-HTSSOP	2.79	2.24	1.74
UCC5606DP	296-6731-5-ND	9-Line 3-5V SCSI SE Terminator	16-SOIC	3.11	2.49	1.94
UCC5606PWP	296-6732-5-ND	9-Line 3-5V SCSI SE Terminator	16-HTSSOP	3.11	2.49	1.94
UCC5614DP	296-6735-5-ND	9-Line 3-5V SCSI SE Terminator	16-SOIC	3.11	2.49	1.94
UCC5614PWP	296-6736-5-ND	9-Line 3-5V SCSI SE Terminator	24-HTSSOP	3.11	2.49	1.94
UCC5617DWP	296-6737-5-ND	18-Line 3-5V SCSI SE Terminator	28-SOIC	4.70	3.77	2.93

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TEXAS INSTRUMENTS POWER CONTROL/MGMT. PRODUCTS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC5618DWP	296-6738-5-ND	18-Line 3-5V SCSI SE Terminator	28-SOIC	4.70	3.77	2.93
UCC5618QP	296-6739-5-ND	18-Line 3-5V SCSI SE Terminator	28-PLCC	5.24	4.20	3.27
UCC5619MWP	296-6740-5-ND	27-Line 5V SE Terminator for Fast/Ultra SCSI	36-SOP	5.70	4.56	3.85
UCC5620MWP	296-6743-5-ND	27-Line 5V SE Terminator	48-SOP	5.70	4.56	3.85
UCC5621MWP	296-6744-5-ND	27-Line 5V SE Terminator	44-SOP	5.70	4.56	3.85
UCC5622MWP	296-6746-5-ND	27-Line 5V SE Terminator for Fast/Ultra SCSI	44-SOP	5.70	4.56	3.85
UCC5628FQP	296-6747-ND	14-Line 3-5V SCSI Multi Terminator	48-LQFP	5.36	4.29	3.34
UCC5629FQP	296-6748-ND	14-Line 3-5V SCSI Multi Terminator	48-LQFP	5.36	4.29	3.34
UCC5630AFQP	296-6749-ND	9-Line 3-5V SCSI Multi Terminator	48-LQFP	5.56	4.45	3.46
UCC5630AMWP	296-6750-5-ND	9-Line 3-5V SCSI Multi Terminator	36-SOP	4.28	3.42	2.66
UCC5631AFQP	296-6751-ND	9-Line 3-5V SCSI Multi Terminator	48-LQFP	5.56	4.45	3.46
UCC5631AMWP	296-6752-5-ND	9-Line 3-5V SCSI Multi Terminator	36-SOP	4.28	3.42	2.66
UCC5638FQP	296-6753-ND	15-Line 3-5V SCSI Multi Terminator	48-LQFP	5.24	4.20	3.27
UCC5639FQP	296-6754-ND	15-Line 3-5V SCSI Multi Terminator	48-LQFP	5.36	4.29	3.34
UCC5640PW24	296-6755-5-ND	9-Line 3-5V LVD SCSI Terminator	24-TSSOP	2.99	2.40	1.87
UCC5640PW28	296-6756-5-ND	9-Line 3-5V LVD SCSI Terminator	28-TSSOP	2.99	2.40	1.87
UCC5670MWP	296-12964-5-ND	9-Line Multimode SCSI Terminator	36-SSOP	3.96	3.17	2.47
UCC5672MWP	296-6760-5-ND	9-Line 3-5V SCSI Multi Terminator	36-SOP	4.28	3.42	2.66
UCC5672PWP	296-6761-5-ND	9-Line 3-5V SCSI Multi Terminator	28-HTSSOP	4.28	3.42	2.66
UCC5673MWP	296-6762-5-ND	9-Line 3-5V SCSI Multi Terminator	36-SOP	4.28	3.42	2.66
UCC5673PWP	296-6763-5-ND	9-Line 3-5V SCSI Multi Terminator	28-HTSSOP	4.28	3.42	2.66
UCC5680PW24	296-11565-5-ND	9-Line 3-5V LVD Terminator for SCSI - Ultra3 SCSI	24-TSSOP	2.99	2.40	1.87
UCC5680PW28	296-11566-5-ND	9-Line 3-5V LVD Terminator for SCSI - Ultra3 SCSI	28-TSSOP	2.99	2.40	1.87
UCC5686PM	296-11567-ND	27-Line 3-5V LVD Terminator for Wide Ultra2/Ultra3 SCSI	64-QFP	6.66	5.33	4.50
UCC5687PM	296-11568-ND	27-Line 3-5V LVD Terminator for Wide Ultra2/Ultra3 SCSI	64-QFP	6.66	5.33	4.50
UCC5696PN	296-14234-5-ND	27-Line LVD SCSI Terminator	80-LQFP	11.08	9.98	8.85

Power + Array

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPIC44H01DA	296-1952-5-ND	4-Channel High-Side Driver	32-TSSOP	3.83	3.06	2.38

Power + Logic

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPIC6A259DW	296-9004-5-ND	Power 8-Bit Addressable Latch	24-SOIC	2.99	2.40	1.87
TPIC6A259NE	296-9005-5-ND	Power 8-Bit Addressable Latch	20-Dip	3.85	3.08	2.40
TPIC6A595DW	296-9006-5-ND	Power 8-Bit Shift Register	24-SOIC	2.59	2.07	1.61
TPIC6A595NE	296-9007-5-ND	Power 8-Bit Shift Register	20-Dip	2.70	2.16	1.68
TPIC6A596DW	296-9008-5-ND	Power 8-Bit Shift Register	24-SOIC	2.59	2.07	1.61
TPIC6A596NE	296-9009-5-ND	Power 8-Bit Shift Register	20-Dip	2.70	2.16	1.68
TPIC6B259DW	296-9010-5-ND	Power 8-Bit Addressable Latch	20-SOIC	1.70	1.36	1.02
TPIC6B259N	296-9011-5-ND	Power 8-Bit Addressable Latch	20-Dip	1.70	1.36	1.02
TPIC6B273DW	296-1350-5-ND	Power Octal D-Type Switch	20-SOIC	1.70	1.36	1.02
TPIC6B273DWR	296-1350-1-ND	Power Octal D-Type Latch	20-SOIC	1.70	1.36	1.02
TPIC6B273DWR	296-1350-2-ND	Power Octal D-Type Latch	20-SOIC	1768.00/2,000		
TPIC6B273N	296-9012-5-ND	Power Octal D-Type Latch	20-Dip	1.70	1.36	1.02
TPIC6B595DW	296-1351-5-ND	Power 8-Bit Shift Register	20-SOIC	1.26	1.05	.84
TPIC6B595DWG4	296-19555-5-ND	Power 8-Bit Shift Register ***NEW!***	20-SOIC	1.26	1.05	.84
TPIC6B595DWR	296-1351-1-ND	Power 8-Bit Shift Register	20-SOIC	1.41	1.18	.94
TPIC6B595DWR	296-1351-2-ND	Power 8-Bit Shift Register	20-SOIC	1250.00/2,000		
TPIC6B595N	296-1956-5-ND	Power 8-Bit Shift Register	20-Dip	1.41	1.18	.94
TPIC6B596DW	296-9013-5-ND	Power 8-Bit Shift Register	20-SOIC	1.26	1.05	.84
TPIC6C595D	296-2019-5-ND	Power 8-Bit Shift Register	16-SOIC	.99	.83	.66
TPIC6C595N	296-2020-5-ND	Power 8-Bit Shift Register	16-Dip	1.05	.88	.70
TPIC6C596D	296-9014-5-ND	Power 8-Bit Shift Register	16-SOIC	.99	.83	.66
TPIC6C596DR	296-19451-1-ND	Power 8-Bit Shift Register ***NEW!***	16-SOIC	1.05	.88	.70
TPIC6C596DR	296-19451-2-ND	Power 8-Bit Shift Register ***NEW!***	16-SOIC	1137.50/2,500		
TPIC6C596N	296-9015-5-ND	Power 8-Bit Shift Register	16-Dip	1.05	.88	.70
TPIC6C596PW	296-19605-5-ND	Power 8-Bit Shift Register ***NEW!***	16-TSSOP	1.02	.85	.68
TPIC43T01DA	296-10866-5-ND	Three-Phase Brushless Motor RPM Controller	38-TSSOP	5.06	4.05	3.15
TPIC44L01DB	296-10867-5-ND	4-Channel Serial/Parallel Low-Side Pre-FET Driver	24-SSOP	2.00	1.60	1.20
TPIC44L02DB	296-10868-5-ND	4-Channel Serial/Parallel Low-Side Pre-FET Driver	24-SSOP	2.00	1.60	1.20
TPIC46L01DB	296-10869-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.25	1.80	1.40
TPIC46L02DB	296-10870-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.25	1.80	1.40
TPIC46L03DB	296-10871-5-ND	6-Channel Serial/Parallel Low-Side Pre-FET Driver	28-SSOP	2.25	1.80	1.40
TPIC0107BDWP	296-10857-5-ND	PWM Control Intelligent H-Bridge	20-HSOP	4.50	3.60	2.80
TPIC0108BDWP	296-10858-5-ND	PWM Control Intelligent H-Bridge	20-HSOP	5.18	4.14	3.22
TPIC0108BDWPR	296-10858-1-ND	PWM Control Intelligent H-Bridge	20-HSOP	5.18	4.14	3.22
TPIC0108BDWPR	296-10858-2-ND	PWM Control Intelligent H-Bridge	20-HSOP	5866.00/2,000		
TPIC1021DR	296-17542-1-ND	LIN Physical Interface	8-SOIC	1.38	1.10	.83
TPIC1021DR	296-17542-2-ND	LIN Physical Interface	8-SOIC	1760.00/2,500		
TPIC2101D	296-10860-5-ND	Single Phase Low-Side Pre-FET Driver	14-SOIC	2.48	1.98	1.54
TPIC2101N	296-10861-5-ND	Single Phase Low-Side Pre-FET Driver	14-Dip	2.48	1.98	1.54
TPIC2603DW	296-10863-5-ND	6-Ch. Serial Interface Low-Side Driver	24-SOP	5.29	4.23	3.29
TPIC2603NE	296-10864-5-ND	6-Ch. Serial Interface Low-Side Driver	20-Dip	5.29	4.23	3.29
TPIC2701N	296-10865-5-ND	7-Channel Common-Source Driver	16-Dip	4.50	3.60	2.80
TPIC6259DW	296-9000-5-ND	Power 8-Bit Addressable Latch	20-SOIC	2.70	2.16	1.68
TPIC6259N	296-9001-5-ND	Power 8-Bit Addressable Latch	20-Dip	2.70	2.16	1.68
TPIC6273DW	296-9002-5-ND	Power Octal D-Type Latch	20-SOIC	2.70	2.16	1.68
TPIC6273N	296-1953-5-ND	Power Octal D-Type Latch	20-Dip	2.70	2.16	1.68
TPIC6595DW	296-1349-5-ND	Power 8-Bit Shift Register	20-SOIC	2.41	1.93	1.50
TPIC6595DWR	296-1349-1-ND	Power 8-Bit Shift Register	20-SOIC	2.50	2.00	1.56
TPIC6595DWR	296-1349-2-ND	Power 8-Bit Shift Register	20-SOIC	2830.00/2,000		
TPIC6595N	296-1954-5-ND	Power 8-Bit Shift Register	20-Dip	2.50	2.00	1.56
TPIC6596DW	296-9003-5-ND	Power 8-Bit Shift Register	20-SOIC	2.41	1.93	1.50
TPIC9201N	296-19606-5-ND	Microcontroller Power Supply and Multiple Low Side Driver ***NEW!***	20-Dip	1.44	1.20	.96

TEXAS INSTRUMENTS SPECIALIZED INTEGRATED CIRCUITS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PGA309AIPWT	296-16726-1-ND	Smart Programmable Sensor	16-TSSOP	6.50	5.20	4.39
PGA309AIPWT	296-16726-2-ND	Smart Programmable Sensor	16-TSSOP	1056.25/250		
PGA309EVM-EU	296-18515-ND	Evaluation Module for PGA309-EU	—	254.96	—	—
PGA309EVM-US	296-18516-ND	Evaluation Module for PGA309-US	—	254.96	—	—
TL851CDR	296-18895-1-ND	Sonar Ranging Control	16-SOIC	4.32	3.46	2.69
TL851CDR	296-18895-2-ND	Sonar Ranging Control	16-SOIC	6047.50/2,500		
TL851CN	296-19329-5-ND	Sonar Ranging Control ***NEW!***	16-Dip	4.32	3.46	2.69
TL852CDR	296-17139-1-ND	Sonar Ranging Receiver	16-SOIC	4.32	3.46	2.69
TL852CDR	296-17139-2-ND	Sonar Ranging Receiver	16-SOIC	6047.50/2,500		
TL852CN	296-19330-5-ND	Sonar Ranging Receiver ***NEW!***	16-Dip	4.32	3.46	2.69
TPIC8101DWR	296-15132-1-ND	Knock Sensor Interface	20-SOIC	5.58	4.47	3.48
TPIC8101DWR	296-15132-2-ND	Knock Sensor Interface	20-SOIC	6324.00/2,000		
UC2950T	296-13022-5-ND	Half-Bridge Bipolar Switch	TO-220-5	5.60	4.48	3.78
UC3717AN	296-11258-5-ND	Stepper Motor Drive Circuit	16-Dip	6.60	5.28	4.46
UC3770AN	296-11259-5-ND	HP Stepper Motor Drive Circuit	16-Dip	5.56	4.45	3.46
UC3770BN	296-11260-5-ND	HP Stepper Motor Drive Circuit	16-Dip	5.04	4.04	3.41
UC3871DW	296-11326-5-ND	Resonant Fluorescent Lamp Driver	18-SOIC	8.00	6.40	5.40
UC3871N	296-11327-5-ND	Resonant Fluorescent Lamp Driver	18-Dip	8.00	6.40	5.40
UC3872DW	296-11328-5-ND	Resonant Lamp Ballast Controller	16-SOIC	6.00	4.80	4.05
UC3872M	296-11329-5-ND	Resonant Lamp Ballast Controller	16-HTSSOP	6.00	4.80	4.05
UC3872N	296-11330-5-ND	Resonant Lamp Ballast Controller	20-Dip	6.00	4.80	4.05
UCC2305DW	296-13023-5-ND	HID Lamp Controller	28-SOIC	9.83	8.85	7.85
UCC2305N	296-13633-5-ND	HID Lamp Controller	28-Dip	11.41	10.28	9.12
UCC3974PW	296-12405-5-ND	Dual Cold Cathode Fluorescent Lamp Controller	16-TSSOP	7.43	5.94	4.62
UCC3977PW	296-12615-5-ND	Dual Transformer Controller	8-TSSOP	2.25	1.80	1.40

TEXAS INSTRUMENTS POWER SUPPLY PRODUCTS

Audio Differential Line Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DRV134PA	DRV134PA-ND	Audio Balanced Line Driver with Differential Output	8-Dip	4.39	3.51	2.73
DRV134UA	DRV134UA-ND	Audio Balanced Line Driver with Differential Output	16-SOIC	4.39	3.51	2.73
DRV135UA	DRV135UA-ND	Audio Balanced Line Driver with Differential Output	8-SOIC	4.39	3.51	2.73

Battery Management

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ20Z80DBT	296-17638-5-ND	Advanced Gas Gauge	38-TSSOP	9.26	7.41	6.26
BQ20Z80DBTR-V102	296-19275-1-ND	SBS-Compliant Gas Gauge	38-TSSOP	9.20	7.36	6.21
BQ20Z80DBTR-V102	296-19275-2-ND	SBS-Compliant Gas Gauge	38-TSSOP	11500.00/2,000		
BQ20Z80DBTV101	296-18681-1-ND	Advanced Gas Gauge	38-TSSOP	9.26	7.41	—
BQ20Z80DBTV101	296-18681-2-ND	Advanced Gas Gauge	38-TSSOP	312.55/50		
BQ2000PN-B5	296-9313-5-ND	Multichemistry Charge Management	8-Dip	3.83	3.06	2.38
BQ2000PW	296-12359-5-ND	Multichemistry Switchmode Charge Management	8-TSSOP	3.83	3.06	2.38
BQ2000SN-B5	296-9314-5-ND	Multichemistry Charge Management	8-SOIC	3.83	3.06	2.38
BQ2000TPN-B5	296-9315-5-ND	Multichemistry Charge Management	8-Dip	3.83	3.06	2.38
BQ2000TPW	296-12360-5-ND	Multichemistry Switchmode Charge Management	8-TSSOP	3.83	3.06	2.38
BQ2000TSN-B5	296-9316-5-ND	Multichemistry Charge Management	8-SOIC	3.83	3.06	2.38
BQ2002CPN	296-9317-5-ND	Fast Charge Controller	8-Dip	2.36	1.89	1.47
BQ2002CSN	296-9318-5-ND	Fast Charge Controller	8-SOP	2.36	1.89	1.47
BQ2002DSN	296-9319-5-ND	Fast Charge Controller	8-SOP	2.36	1.89	1.47
BQ2002EPN	296-9320-5-ND	Fast Charge Controller	8-Dip	2.36	1.89	1.47
BQ2002ESN	296-9321-5-ND	Fast Charge Controller	8-SOIC	2.36	1.89	1.47
BQ2002FPN	296-9322-5-ND	Fast Charge Controller	8-Dip	2.36	1.89	1.47
BQ2002FSN	296-9323-5-ND	Fast Charge Controller	8-SOIC	2.36	1.89	1.47
BQ2002GPN	296-9324-5-ND	Fast Charge Controller	8-Dip	2.36	1.89	1.47
BQ2002GSN	296-9325-5-ND	Fast Charge Controller	8-SOIC	2.36	1.89	1.47
BQ2002PN	296-9326-5-ND	Fast Charge Controller	8-Dip	2.36	1.89	1.47
BQ2002SN	296-9327-5-ND	Fast Charge Controller	8-SOIC	2.36	1.89	1.47
BQ2002TPN	296-9328-5-ND	Fast Charge Controller	8-Dip	2.36	1.89	1.47
BQ2002TSN	296-9329-5-ND	Fast Charge Controller	8-SOIC	2.36	1.89	1.47
BQ2003PN	296-9330-5-ND	Fast Charge Controller	16-Dip	4.95	3.96	3.08
BQ2003S	296-9331-5-ND	Fast Charge Controller	16-SOIC	4.95	3.96	3.08
BQ2004EPN	296-9332-5-ND	Fast Charge Controller	16-Dip	4.95	3.96	3.08
BQ2004ESN	296-9333-5-ND	Fast Charge Controller	16-SOIC	4.95	3.96	3.08
BQ2004HPN	296-9334-5-ND	Fast Charge Controller	16-Dip	4.95	3.96	3.08
BQ2004HSN	296-9335-5-ND	Fast Charge Controller	16-SOIC	4.95	3.96	3.08
BQ2004PN	296-9336-5-ND	Fast Charge Controller	16-Dip	4.95	3.96	3.08
BQ2004SN	296-9337-5-ND	Fast Charge Controller	16-SOIC	4.95	3.96	3.08
BQ2005S	296-9338-5-ND	Dual Fast Charge Controller	20-SOIC	4.95	3.96	3.08
BQ2010SN-D107	296-2218-5-ND	Battery Gas Gauge	16-SOIC	7.70	6.16	5.20
BQ2011SN-D118	296-9340-5-ND	Battery Gas Gauge	16-SOIC	7.50	6.00	5.07
BQ2012SN-D107	296-9341-5-ND	Battery Gas Gauge	16-SOIC	7.70	6.16	5.20
BQ2013HSN-A514	296-9343-5-ND	Battery Gas Gauge	16-SOIC	7.40	5.92	5.00
BQ2014HSN	296-9345-5-ND	Battery Gas Gauge	16-SOIC	7.40	5.92	5.00
BQ2014SN-D120	296-2220-5-ND	Battery Gas Gauge	16-SOIC	7.70	6.16	5.20
BQ2018SN-E1	296-2221-5-ND	Battery Power Monitor	8-SOIC	4.28	3.42	2.66
BQ2018TS-E1	296-2222-5-ND	Battery Power Monitor	8-TSSOP	4.28	3.42	2.66
BQ2019PW	296-9348-5-ND	Advanced Battery Monitoring	8-TSSOP	4.39	3.51	2.73
BQ2022DBZR	296-16825-1-ND	1K-Bit Serial Eprom with SDQ	SOT-23	2.81	2.25	1.75
BQ2022DBZR	296-16825-2-ND	1K-Bit Serial Eprom with SDQ	SOT-23	4725.00/3,000		
BQ2023PW	296-11861-5-ND	Battery Power Monitor	8-TSSOP	4.50	3.60	2.80
BQ2031PN-A5	296-9349-5-ND	Lead Acid Fast Charge	16-Dip	5.60	4.48	3.78
BQ2031SN-A5	296-9350-5-ND	Lead Acid Fast Charge	16-SOIC	5.60	4.48	3.78
BQ2040SN-C408	296-2223-5-ND	Battery Gas Gauge	16-SOIC	7.70	6.16	5.20
BQ2040SN-D111	296-13773-5-ND	Gas Gauge IC with SMBus Interface	16-SOIC	7.70	6.16	5.20
BQ2050HSN-A508	296-9353-5-ND	Lithium-Ion Gas Gauge	16-SOIC	7.40	5.92	5.00
BQ2050SN-D119	296-2225-5-ND	Lithium-Ion Power Gauge	16-SOIC	7.70	6.16	5.20
BQ2052SN-A515	296-9355-5-ND	Primary Lithium Gas Gauge	16-SOIC	8.00	6.40	5.40
BQ2054PN	296-9356-5-ND	Lithium-Ion Fast Charge	16-Dip	5.18	4.14	3.22
BQ2054SN	296-9357-5-ND	Lithium-Ion Fast Charge	16-SOIC	5.18	4.14	3.22
BQ2057CDGK	296-11991-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2.25	1.80	1.35
BQ2057CDGKR	296-11991-1-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2.25	1.80	1.35
BQ2057CDGKR	296-11991-2-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2880.00/2,500		
BQ2057CSN	296-9358-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-SOIC	2.25	1.80	1.35
BQ2057CTS	296-9359-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-TSSOP	2.25	1.80	1.35
BQ2057DGK	296-11992-5-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2.25	1.80	1.35
BQ2057DGKR	296-11992-1-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2.25	1.80	1.35
BQ2057DGKR	296-11992-2-ND	Li-Ion LDO Linear Charge Management for 1 Cell	8-MSOP	2880.00/2,500		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BQ2057PDGK	296-15351-5-ND	Li-Ion LDO Linear Charge Mgmt	8-VSSOP	2.70	2.16	1.68
BQ2057SN	296-9360-5-ND	Li-Ion LDO Linear Charge Mgmt	8-SOIC	2.25	1.80	1.35
BQ2057TS	296-9361-5-ND	Li-Ion LDO Linear Charge Mgmt	8-TSSOP	2.25	1.80	1.35
BQ2057TSN	296-9362-5-ND	Li-Ion LDO Linear Charge Mgmt	8-SOIC	2.70	2.16	1.68
BQ2057TTS	296-9363-5-ND	Li-Ion LDO Linear Charge Mgmt	8-TSSOP	2.70	2.16	1.68
BQ2057WSN	296-9364-5-ND	Li-Ion LDO Linear Charge Mgmt	8-SOIC	2.70	2.16	1.68
BQ2057WTS	296-9365-5-ND	Li-Ion LDO Linear Charge Mgmt	8-TSSOP	2.70	2.16	1.68
BQ2060A-E619DBQ	296-18388-5-ND	SBS 1.1 Compliant Gas Gauge IC	28-SSOP	6.00	4.80	4.05
BQ2060AEVM-001	296-18389-ND	Evaluation Module for BQ2060A-001	—	126.84	—	—
BQ2060AEVM-002	296-18390-ND	Evaluation Module for BQ2060A-002	—	126.84	—	—
BQ2060SS-E411	296-12268-5-ND	Multi-Chemistry SBS v1.1 Gas Gauge	28-SSOP	7.74	6.20	5.23
BQ2063DBQ	296-12199-5-ND	Battery Gas Gauge	28-SSOP	7.80	6.24	5.27
BQ2083DBT	296-13030-5-ND	SBS Compliant Gas Gauge for BQ29311	38-TSSOP	8.92	7.14	6.03
BQ2083DBT-V1P3	296-17237-ND	SBS Compliant Gas Gauge for BQ29311	38-TSSOP	9.00	7.20	6.08
BQ2084DBT	296-15343-5-ND	SBS Compliant Gas Gauge for BQ29312	38-TSSOP	8.08	6.47	5.46
BQ2084EVM-001	296-18391-ND	Evaluation Module for BQ2084-001	—	126.84	—	—
BQ2084RTTR-V140	296-19398-1-ND	SBS v1.1 Compliant Gas Gauge for use with the BQ29312 ***NEW!***	36-QFN	8.00	6.40	5.40
BQ2084RTTR-V140	296-19398-2-ND	SBS v1.1 Compliant Gas Gauge for use with the BQ29312 ***NEW!***	36-QFN	14880.00/3,000		
BQ2085DBT	296-14071-5-ND	SBS Compliant Battery Gas Gauge	38-TSSOP	9.18	7.35	6.20
BQ2085DBT-V1P3	296-17238-ND	SBS Compliant Battery Gas Gauge	38-TSSOP	9.20	7.36	6.21
BQ2085DBTR	296-15962-1-ND	Gas Gauge for BQ29311	38-TSSOP	9.18	7.35	6.20
BQ2085DBTR	296-15962-2-ND	Gas Gauge for BQ29311	38-TSSOP	11476.00/2,000		
BQ2201PN	296-9369-5-ND	SRAM Nonvolatile Controller IC	8-Dip	4.16	3.33	2.59
BQ2201SN	296-9370-5-ND	SRAM Nonvolatile Controller IC	8-SOIC	4.16	3.33	2.59
BQ2205LYPW	296-16973-5-ND	Power Monitoring and Switching Controller for 3.3V SRAM	16-TSSOP	3.94	3.15	2.45
BQ2954PN	296-9387-5-ND	Lithium-Ion Fast Charger	16-Dip	5.00	4.00	3.38
BQ2954SN	296-9388-5-ND	Lithium-Ion Fast Charger	16-SOIC	5.00	4.00	3.38
BQ4010MA-85	296-9389-5-ND	8Kx8 Nonvolatile SRAM, 85nS	28-Dip	9.10	8.19	7.27
BQ4010YMA-70	296-9390-5-ND	8Kx8 Nonvolatile SRAM, 10%, 70nS	28-Dip	9.10	8.19	7.27
BQ4011MA-100	296-9391-5-ND	32Kx8 Nonvolatile SRAM, 100nS	28-Dip	10.50	9.45	8.38
BQ4011YMA-70	296-9393-5-ND	32Kx8 Nonvolatile SRAM, 10%, 70nS	28-Dip	10.50	9.45	8.38
BQ4011YMA-100	296-9392-5-ND	32Kx8 Nonvolatile SRAM, 10%, 100nS	28-Dip	10.50	9.45	8.38
BQ4013YMA-70	296-9394-5-ND	128Kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	13.29	11.97	10.62
BQ4013YMA-70N	296-9395-5-ND	128Kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	13.29	11.97	10.62
BQ4013YMA-85	296-9396-5-ND	128Kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	13.29	11.97	10.62
BQ4014MB-85	296-9397-5-ND	256Kx8 Nonvolatile SRAM, 85nS	32-Dip	25.20	23.52	21.84
BQ4014YMB-85	296-9398-5-ND	256Kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	25.20	23.52	21.84
BQ4015MA-70	296-9399-5-ND	512Kx8 Nonvolatile SRAM, 70nS	32-Dip	27.72	25.88	24.03
BQ4015YMA-70	296-9400-5-ND	512Kx8 Nonvolatile SRAM, 10%, 70nS	32-Dip	27.72	25.88	24.03
BQ4015YMA-85	296-9401-5-ND	512Kx8 Nonvolatile SRAM, 10%, 85nS	32-Dip	27.72	25.88	24.03
BQ4016MC-70	296-9402-5-ND	1024Kx8 Nonvolatile SRAM, 70nS	36-Dip	32.76	30.58	28.40
BQ4016YMC-70	296-9403-5-ND	1024Kx8 Nonvolatile SRAM, 10%, 70nS	36-Dip	32.76	30.58	28.40
BQ4017MC-70	296-9404-5-ND	2048Kx8 Nonvolatile SRAM, 70nS	36-Dip	63.00	58.80	54.60
BQ20851DBT-V1P2	296-17465-5-ND	Gas Gauge for BQ29311	38-TSSOP	8.66	7.80	6.92
BQ24001PWP	296-9378-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	2.70	2.16	1.68
BQ24001RGWR	296-12968-1-ND	Single Cell Li-Ion Charge Management	20-QFN	2.70	2.16	1.68
BQ24001RGWR	296-12968-2-ND	Single Cell Li-Ion Charge Management	20-QFN	4536.00/3,000		
BQ24002PWP	296-9379-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	2.70	2.16	1.68
BQ24002RGWR	296-12969-1-ND	Single Cell Li-Ion Charge Management	20-QFN	2.70	2.16	1.68
BQ24002RGWR	296-12969-2-ND	Single Cell Li-Ion Charge Management	20-QFN	4536.00/3,000		
BQ24003PWP	296-9380-5-ND	Single Cell Li-Ion Charge Management	20-HTSSOP	2.70	2.16	1.68
BQ24003RGWR	296-12970-1-ND	Single Cell Li-Ion Charge Management	20-QFN	2.70	2.16	1.68
BQ24003RGWR	296-12970-2-ND	Single Cell Li-Ion Charge Management	20-QFN	4536.00/3,000		
BQ24004PWP	296-9381-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	3.60	2.88	2.24
BQ24005PWP	296-9382-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	3.60	2.88	2.24
BQ24006PWP	296-9383-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	3.60	2.88	2.24
BQ24007PWP	296-9384-5-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-HTSSOP	2.70	2.16	1.68
BQ24007RGWR	296-12971-1-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-QFN	2.70	2.16	1.68
BQ24007RGWR	296-12971-2-ND	Single Cell Li-Ion Charge Management Timer-Enable	20-QFN	4536.00/3,000		
BQ24008PWP	296-9385-5-ND	Lithium-Ion Battery Charger	20-HTSSOP	2.70	2.16	1.68
BQ24010DRCR	296-13714-1-ND	Single Chip, Li-Ion Charge Management	10-SON	2.36	1.89	1.47
BQ24010DRCR	296-13714-2-ND	Single Chip, Li-Ion Charge Management	10-SON	3969.00/3,000		
BQ24012DRCR	296-13715-1-ND	Single Chip, Li-Ion Charge Management	10-SON	2.36	1.89	1.47
BQ24012DRCR	296-13715-2-ND	Single Chip, Li-Ion Charge Management	10-SON	3969.00/3,000		
BQ24013DRCR	296-13716-1-ND	Single Chip, Li-Ion Charge Management	10-SON	2.36	1.89	1.47
BQ24013DRCR	296-13716-2-ND	Single Chip, Li-Ion Charge Management	10-SON	3969.00/3,000		
BQ24014DRCR	296-18392-1-ND	Single Chip, Li-Ion Charge Management	10-SON	2.36	1.89	1.47
BQ24014DRCR	296-18392-2-ND	Single Chip, Li-Ion Charge Management	10-SON	3969.00/3,000		
BQ24020DRCR	296-14072-1-ND	Li-Ion/Li-Pol Charger	10-SON	3.60	2.88	2.24
BQ24020DRCR	296-14072-2-ND	Li-Ion/Li-Pol Charger	10-SON	6048.00/3,000		
BQ24022DRCR	296-14397-1-ND	Single Cell Li-Ion Charge Management	10-SON	3.60	2.88	2.24
BQ24022DRCR	296-14397-2-ND	Single Cell Li-Ion Charge Management	10-SON	6048.00/3,000		
BQ24022EVM	296-18393-ND	Evaluation Module for BQ24022	—	62.78	—	—
BQ24023DRCR	296-15182-1-ND	Li-Ion/Li-Pol Charger	10-SON	3.60	2.88	2.24
BQ24023DRCR	296-15182-2-ND	Li-Ion/Li-Pol Charger	10-SON	6048.00/3,000		
BQ24023EVM	296-18394-ND	Evaluation Module for BQ24023	—	62.78	—	—
BQ24024DRCR	296-17054-1-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	3.60	2.88	2.24
BQ24024DRCR	296-17054-2-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	6048.00/3,000		
BQ24025DRCR	296-15760-1-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	3.60	2.88	2.24
BQ24025DRCR	296-15760-2-ND	Single Chip, Li-Ion/Li-Pol Charger	10-SON	6048.00/3,000		
BQ24026DRCR	296-17305-1-ND	Li-Ion/Li-Pol Charger	10-SON	3.60	2.88	2.24
BQ24026DRCR	296-17305-2-ND	Li-Ion/Li-Pol Charger	10-SON	6048.00/3,000		
BQ24030RHLR	296-17909-1-ND	Single-Chip Power Management System	20-QFN	5.18	4.14	3.22
BQ24030RHLR	296-17909-2-ND	Single-Chip Power Management System	20-QFN	8694.00/3,000		
BQ24032ARHLR	296-18285-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	5.18	4.14	3.22
BQ24032ARHLR	296-18285-2-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	8694.00/3,000		
BQ24035RHLR	296-17803-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	5.18	4.14	3.22
BQ24035RHLR	296-17803-2-ND	Single-Chip Charge and System Power-Path Managment IC	20-QFN	8694.00/3,000		
BQ24038RHLT	296-18286-1-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	5.10	4.08	3.45
BQ24038RHLT	296-18286-2-ND	Single-Chip Charge and System Power-Path Management IC	20-QFN	828.75/250		
BQ24100EVM	296-17258-ND	Evaluation Module for BQ24100	—	62.78	—	—
BQ24100RHLR	296-17154-1-ND	Li-Ion/Li-Pol Charger	20-QFN	4.73	3.78	2.94
BQ24100RHLR	296-17154-2-ND	Li-Ion/Li-Pol Charger	20-QFN	7938.00/3,000		
BQ24103EVM	296-17259-ND	Evaluation Module for BQ24103	—	62.78	—	—
BQ24103RHLR	296-17155-1-ND	Li-Ion/Li-Pol Charger	20-QFN	4.95	3.96	3.08
BQ24103RHLR	296-17155-2-ND	Li-Ion/Li-Pol Charger	20-QFN	8316.00/3,000		
BQ24105EVM	296-17260-ND	Evaluation Module for BQ24105	—	62.78	—	—
BQ24105RHLR	296-17159-1-ND	Li-Ion/Li-Pol Charger	20-QFN	7.00	5.60	4.73
BQ24105RHLR	296-17159-2-ND	Li-Ion/Li-Pol Charger	20-QFN	13020.00/3,000		
BQ24108RHLR	296-17398-1-ND	Li-Ion/Li-POL Charge Management	20-QFN	4.95	3.96	3.08
BQ24108RHLR	296-17398-2-ND	Li-Ion/Li-POL Charge Management	20-QFN	8316.00/3,000		
BQ24113EVM	296-17261-ND	Evaluation Module for BQ24113	—	62.78	—	—
BQ24113RHLR	296-17156-1-ND	Li-Ion/Li-Pol Charger	20-QFN	4.95	3.96	3.08
BQ24113RHLR	296-17156-2-ND	Li-Ion/Li-Pol Charger	20-QFN	8316.00/3,000		
BQ24115EVM	296-17262-ND	Evaluation Module for BQ24115	—	62.78	—	—
BQ24115RHLR	296-17160-1-ND	Li-Ion/Li-Pol Charger	20-QFN	7.00	5.60	4.73
BQ24115RHLR	296-17160-2-ND	Li-Ion/Li-Pol Charger	20-QFN	13020.00/3,000		
BQ24120RHLT	296-19572-1-ND	Single Chip Switchmode Li-Ion/Li-Polymer Charge Management IC ***NEW!***	20-QFN	5.29	4.23	3.29
BQ24120RHLT	296-19572-2-ND	Single Chip Switchmode Li-Ion/Li-Polymer Charge Management IC ***NEW!***	20-QFN	781.50250		
BQ24123RHLT	296-19573-1-ND	Single Chip Switchmode Li-Ion/Li-Polymer Charge Management IC ***NEW!***	20-QFN	4.95	3.96	3.08
BQ24123RHLT	296-19573-2-ND	Single Chip Switchmode Li-Ion/Li-Polymer Charge Management IC ***NEW!***	20-QFN	731.50/250		
BQ24200DGN	296-12409-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24201DGN	296-12410-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24202DGN	296-12411-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24203DGN	296-12412-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24204DGN	296-12413-5-ND	4.2V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24205DGN	296-12414-5-ND	4.1V, 500mA, Li-Ion and Li-Pol Charge Management	8-MSOP	2.13	1.70	1.28
BQ24400D	296-12622-5-ND	Programmable NiCd/NiMH Charge Management	8-SOIC	3.49	2.79	2.17
BQ24400PW	296-12623-5-ND	Programmable NiCd/NiMH Charge Management	8-TSSOP	3.49	2.79	2.17
BQ24401D	296-12624-5-ND	Programmable NiCd/NiMH Charge Management	8-SOIC	3.49	2.79	2.17
BQ24401PW	296-12625-5-ND	Programmable NiCd/NiMH Charge Management	8-TSSOP	3.49	2.79	2.17
BQ24700PW	296-12361-5-ND	Battery Charger Controller/Selector with DPM	24-TSSOP	6.20	4.96	4.19
BQ24701PW	296-12362-5-ND	Battery Charger Controller/Selector with DPM	24-TSSOP	6.20	4.96	4.19
BQ24702PW	296-15264-5-ND	Battery Charger Controller and System Power Selector	24-TSSOP	6.20	4.96	4.19
BQ24703EVM	296-18396-ND	Evaluation Module for BQ24703	—	62.78	—	—
BQ24703PW	296-15113-5-ND	Battery Charger Controller/Selector with DPM	24-TSSOP	6.20	4.96	4.19
BQ24703RHDR	296-17828-1-ND	Battery Charger Controller/Selector with DPM	28-QFN	6.20	4.96	4.19
BQ24703RHDR	296-17828-2-ND	Battery Charger Controller/Selector with DPM	28-QFN	11532.00/3,000		
BQ24721EVM	296-19455-ND	Evaluation Module for BQ24721 ***NEW!***	—	190.89	—	—
BQ24721RHBT	296-19276-1-ND	Adv. Multi-Chemistry and Multi-Cell Sync. Switch-Mode Charger	32-QFN	8.55	7.70	6.83
BQ24721RHBT	296-19276-2-ND	Adv. Multi-Chemistry and Multi-Cell Sync. Switch-Mode Charger	32-QFN	1635.25/250		
BQ24901PW	296-14073-5-ND	Single Cell Li-Ion and Li-Pol Charger	14-TSSOP	4.73	3.78	2.94
BQ25010RHLR	296-17639-1-ND	Charger and DC/DC Converter	20-QFN	4.95	3.96	3.08
BQ25010RHLR	296-17639-2-ND	Charger and DC/DC Converter	20-QFN	8316.00/3,000		
BQ25012RHLR	296-17804-1-ND	Charge/Power Management	20-QFN	4.95	3.96	3.08
BQ25012RHLR	296-17804-2-ND	Charge/Power Management	20-QFN	8316.00/3,000		
BQ26150DCKR	296-18601-1-ND	Battery Pack Security and Authentication IC	SC70-5	2.93	2.34	1.82
BQ26150DCKR	296-18601-2-ND	Battery Pack Security and Authentication IC	SC70-5	4914.00/3,000		
BQ26200PW	296-12626-5-ND	High Performance Battery Monitor	8-TSSOP	4.50	3.60	2.80
BQ26220EVM-001	296-18397-ND	Evaluation Module for BQ26220-001	—	126.84	—	—
BQ26220PW	296-14004-5-ND	High Performance Battery Monitor with Voltage and Temperature	8-TSSOP	4.61	3.69	2.87
BQ26221PWR	296-17161-1-ND	High Performance Battery Monitor	8-TSSOP	4.61	3.69	2.87
BQ26221PWR	296-17161-2-ND	High Performance Battery Monitor	8-TSSOP	5228.00/2,000		
BQ26231PW	296-12269-5-ND	Battery Coulomb Counter	8-TSSOP	3.38	2.70	2.10
BQ2650X-TESTER	296-17263-ND	System Tester for BQ26500/BQ26501	—	190.89	—	—
BQ26500EVM-001	296-18398-ND	Evaluation Module for BQ26500-001	—	126.84	—	—

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
BQ26500PW	296-15848-5-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	5.29	4.23	3.29
BQ26500PWR	296-16775-1-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	5.29	4.23	3.29
BQ26500PWR	296-16775-2-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	5992.00/2,000		
BQ26501PW	296-16925-5-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	8-TSSOP	5.29	4.23	3.29
BQ27000DRKR	296-17428-1-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-SON	5.00	4.00	3.38
BQ27000DRKR	296-17428-2-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-SON	9300.00/3,000		
BQ27000EVM	296-18399-ND	Evaluation Module for BQ27000	—	126.84	—	—
BQ27200DRKR	296-17521-1-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-QFN	5.20	4.16	3.51
BQ27200DRKR	296-17521-2-ND	Single-Cell Li-Ion and Li-Pol Battery Gas Gauge	10-QFN	9672.00/3,000		
BQ29311PW	296-13067-5-ND	3 and 4 Cell Li-Ion or Lithium-Polymer Battery Protection	24-TSSOP	2.93	2.34	1.82
BQ29312APW	296-18644-5-ND	2, 3, and 4 Cell Lithium-Ion or Lithium-Polymer Battery Protection	24-TSSOP	2.93	2.34	1.82
BQ29312PW	296-15247-5-ND	2, 3, and 4 Cell Lithium-Ion or Lithium-Polymer Battery Protection	24-TSSOP	2.93	2.34	1.82
BQ29330DBT	296-18607-5-ND	2, 3, and 4 Cell Lithium-Ion or Lithium-Polymer Battery Protection	30-TSSOP	3.26	2.61	2.03
BQ29400PW	296-15331-5-ND	2, 3, and 4 Cell Li-Ion Battery Protection	8-TSSOP	1.26	1.05	.84
BQ29401PW	296-16673-5-ND	2 to 4 Cell Li-Ion Battery Protection	8-TSSOP	1.20	1.00	.80
BQ29410PW	296-19574-5-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries ***NEW!***	8-TSSOP	1.29	1.08	.86
BQ29411PW	296-19575-5-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries ***NEW!***	8-TSSOP	1.29	1.08	.86
BQ29412DCT3R	296-19277-1-ND	Volt. Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-MSOP	1.35	1.13	.90
BQ29412DCT3R	296-19277-2-ND	Volt. Protection for 2, 3, or 4-Cell Li-Ion Batteries	8-MSOP	1755.00/3,000		
BQ29412PW	296-19456-5-ND	Voltage Protection for 2, 3, or 4-Cell Li-Ion Batteries ***NEW!***	8-TSSOP	1.35	1.13	.90
EV2300	296-18432-ND	Evaluation Module for Interface Board	—	62.78	—	—
TPS3600D25PW	296-12017-5-ND	Battery Backup Supervisor for LP Processors	14-TSSOP	4.50	3.60	2.80
TPS61100RGER	296-15141-1-ND	Dual Output, Single Cell Boost Converter	24-QFN	4.16	3.33	2.59
TPS61100RGER	296-15141-2-ND	Dual Output, Single Cell Boost Converter	24-QFN	6993.00/3,000		
TPS61103RGER	296-15142-1-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	4.16	3.33	2.59
TPS61103RGER	296-15142-2-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	6993.00/3,000		
TPS61106RGER	296-15143-1-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	4.16	3.33	2.59
TPS61106RGER	296-15143-2-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	6993.00/3,000		
TPS61107RGER	296-15144-1-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	4.16	3.33	2.59
TPS61107RGER	296-15144-2-ND	3.3V, Dual Output, Single Cell Boost Converter	24-QFN	6993.00/3,000		
TPS61130EVM-206	296-18974-ND	Evaluation Module for TPS61130-206	—	62.78	—	—
TPS61130PW	296-13521-5-ND	Adj., Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	4.61	3.69	2.87
TPS61130RSAR	296-16921-1-ND	Adj., Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-QFN	4.61	3.69	2.87
TPS61130RSAR	296-16921-2-ND	Adj., Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-QFN	7749.00/3,000		
TPS61131PW	296-13522-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	4.61	3.69	2.87
TPS61132PW	296-13523-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-TSSOP	4.61	3.69	2.87
TPS61132RSAR	296-18975-1-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-QFN	4.61	3.69	2.87
TPS61132RSAR	296-18975-2-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Sepic Converter	16-QFN	7749.00/3,000		
TPS65010EVM-230	296-18988-ND	Evaluation Module for TPS65010-230	—	126.84	—	—
TPS65010RGZR	296-15241-1-ND	Power and Battery Management IC for Li-Ion Powered Systems	48-QFN	6.60	5.28	4.46
TPS65010RGZR	296-15241-2-ND	Power and Battery Management IC for Li-Ion Powered Systems	48-QFN	10230.00/2,500		
TPS65011EVM-049	296-18989-ND	Evaluation Module for TPS65011-049	—	126.84	—	—
TPS65011RGZR	296-16813-1-ND	Power/Battery Management	48-QFN	6.60	5.28	4.46
TPS65011RGZR	296-16813-2-ND	Power/Battery Management	48-QFN	10230.00/2,500		
TPS65012RGZR	296-16831-1-ND	Power/Battery Management	48-QFN	6.60	5.28	4.46
TPS65012RGZR	296-16831-2-ND	Power/Battery Management	48-QFN	10230.00/2,500		
TPS65013RGZT	296-17390-1-ND	Linear Charger Mgmt for Single Li-Ion or Li-Polymer Cells	48-QFN	7.70	6.16	5.20
TPS65013RGZT	296-17390-2-ND	Linear Charger Mgmt for Single Li-Ion or Li-Polymer Cells	48-QFN	1251.25/250		
TPS65014RGZT	296-17695-1-ND	Power/Battery Management	48-QFN	7.70	6.16	5.20
TPS65014RGZT	296-17695-2-ND	Power/Battery Management	48-QFN	1251.25/250		
TPS65020RHAT	296-18582-1-ND	Power Management IC for Li-Ion Powered System	40-QFN	8.30	6.64	5.61
TPS65020RHAT	296-18582-2-ND	Power Management IC for Li-Ion Powered System	40-QFN	1348.75/250		
TPS65021RHAT	296-19362-1-ND	Power Management IC for Li-Ion Power System ***NEW!***	40-QFN	8.30	6.64	5.61
TPS65021RHAT	296-19362-2-ND	Power Management IC for Li-Ion Power System ***NEW!***	40-QFN	1348.75/250		
TPS65030YZKT	296-19560-1-ND	Power Management IC for USB-OTG ***NEW!***	25-DSBGA	6.10	4.88	4.12
TPS65030YZKT	296-19560-2-ND	Power Management IC for USB-OTG ***NEW!***	25-DSBGA	991.25/250		
TPS65140IPWPRQ1	296-19612-1-ND	Triple Output LCD Supply ***NEW!***	24-TSSOP	4.28	3.42	2.66
TPS65140IPWPRQ1	296-19612-2-ND	Triple Output LCD Supply ***NEW!***	24-TSSOP	4846.00/2,000		
TPS65145RGER	296-16904-1-ND	Triple Output LCD Supply w/Regulator	24-QFN	3.60	2.88	2.24
TPS65145RGER	296-16904-2-ND	Triple Output LCD Supply w/Regulator	24-QFN	6048.00/3,000		
TPS65552ADGQR	296-19363-1-ND	Integrated Photo Flash Charger and IGBT Driver ***NEW!***	10-MSOP	2.25	1.80	1.40
TPS65552ADGQR	296-19363-2-ND	Integrated Photo Flash Charger and IGBT Driver ***NEW!***	10-MSOP	3150.00/2,500		
TPS65552ARGTR	296-19364-1-ND	Integrated Photo Flash Charger and IGBT Driver ***NEW!***	16-QFN	2.25	1.80	1.40
TPS65552ARGTR	296-19364-2-ND	Integrated Photo Flash Charger and IGBT Driver ***NEW!***	16-QFN	3780.00/3,000		
TPS65800RTQR	296-19613-1-ND	Integrated Single Cell Li-Ion Battery and Power Management IC ***NEW!***	56-QFN	10.83	9.75	8.65
TPS65800RTQR	296-19613-2-ND	Integrated Single Cell Li-Ion Battery and Power Management IC ***NEW!***	56-QFN	16056.00/2,000		
TPS65800RTQT	296-19365-1-ND	Integrated Single Cell Lithium-Ion Battery and Power Management IC ***NEW!***	56-QFN	11.91	10.73	9.51
TPS65800RTQT	296-19365-2-ND	Integrated Single Cell Lithium-Ion Battery and Power Management IC ***NEW!***	56-QFN	2279.00/250		
TPS68000DBTR	296-19561-1-ND	Highly Efficient Phase Shift Full Bridge CCFL Controller ***NEW!***	30-TSSOP	5.00	4.00	3.38
TPS68000DBTR	296-19561-2-ND	Highly Efficient Phase Shift Full Bridge CCFL Controller ***NEW!***	30-TSSOP	6250.00/2,000		
UC2906DW	296-2228-5-ND	Lead-Acid Battery Charger	16-SOIC	5.50	4.40	3.72
UC2909DW	296-12527-5-ND	Switchmode Lead-Acid Battery Charger	20-SOIC	6.10	4.88	4.12
UC2909N	296-2229-5-ND	Lead-Acid Battery Charger	20-Dip	6.10	4.88	4.12
UC3906DW	296-2230-5-ND	Lead-Acid Battery Charger	16-SOIC	5.50	4.40	3.72
UC3906N	296-11621-ND	Lead-Acid Battery Charger	16-Dip	5.50	4.40	3.72
UC3906Q	296-12193-5-ND	Lead-Acid Battery Charger	20-PLCC	5.50	4.40	3.72
UC3909DW	296-11345-5-ND	Lead-Acid Switchmode Charge Management	20-SOIC	6.10	4.88	4.12
UC3909N	296-2232-5-ND	Lead-Acid Switchmode Charge Management	20-Dip	6.10	4.88	4.12
UCC3911DP-1	296-11540-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	4.84	3.87	3.01
UCC3911DP-2	296-11541-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	4.84	3.87	3.01
UCC3911DP-3	296-11542-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	4.84	3.87	3.01
UCC3911DP-4	296-11543-5-ND	2-Cell Lithium-Ion Protector Circuit	16-SOIC	4.84	3.87	3.01
UCC3952DP-1	296-11552-5-ND	Lithium-Ion Protector Circuit	16-SOIC	3.94	3.15	2.45
UCC3952DP-2	296-11553-5-ND	Lithium-Ion Protector Circuit	16-SOIC	3.94	3.15	2.45
UCC3952DP-3	296-11554-5-ND	Lithium-Ion Protector Circuit	16-SOIC	3.94	3.15	2.45
UCC3952DP-4	296-11555-5-ND	Lithium-Ion Protector Circuit	16-SOIC	3.94	3.15	2.45
UCC3952PW-1	296-11556-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.94	3.15	2.45
UCC3952PW-2	296-11557-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.94	3.15	2.45
UCC3952PW-3	296-11558-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.94	3.15	2.45
UCC3952PW-4	296-11559-5-ND	Lithium-Ion Protector Circuit	16-SOP	3.94	3.15	2.45
UCC3956DW	296-11560-5-ND	Lithium-Ion Battery Circuit	20-SOIC	4.61	3.69	2.87
UCC3956N	296-2233-5-ND	Lithium-Ion Battery Circuit	20-Dip	4.61	3.69	2.87
UCC3957M-1	296-2234-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.49	2.79	2.17
UCC3957M-2	296-2235-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.49	2.79	2.17
UCC3957M-3	296-2236-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.49	2.79	2.17
UCC3957M-4	296-2237-5-ND	Lithium-Ion Protector Circuit	16-SSOP	3.49	2.79	2.17

Buck Regulators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	1	25	100
MC33063ADR	296-17763-1-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-SOIC	.93	.78	.62
MC33063ADR	296-17763-2-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-SOIC	1007.50/2,500		
MC33063AP	296-17764-5-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-Dip	.93	.78	.62
MC33063AQDRQ1	296-18690-1-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-SOIC	1.09	.91	.73
MC33063AQDRQ1	296-18690-2-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-SOIC	1182.50/2,500		
MC34063ADR	296-17765-1-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-SOIC	.78	.65	.52
MC34063ADR	296-17765-2-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-SOIC	845.00/2,500		
MC34063AP	296-17764-5-ND	1.5A Boost/Buck/Inverting Switching Regulator	8-Dip	.93	.78	.62
TPPM0115D	296-11987-5-ND	Switch Mode Sync. Buck Controller	8-SOIC	3.42	2.74	2.13
TPPM0115DR	296-11987-2-ND	Switch Mode Sync. Buck Controller	8-SOIC	4787.50/2,500		
TPS5110PW	296-15672-5-ND	Sync. Buck PWM Controller with NMOS LDO Controller	24-TSSOP	5.29	4.23	3.29
TPS5120DBT	296-10925-ND	Dual Out Buck Controller	30-TSSOP	5.60	4.48	3.78
TPS5130PT	296-15673-ND	Triple Sync. Buck Controller with NMOS LDO Controller	48-TQFP	7.30	5.84	4.93
TPS5210DW	296-2021-5-ND	Sync. Buck Controller	28-SOIC	7.00	5.60	4.73
TPS5210PWP	296-10929-5-ND	Sync. Buck Controller	28-HTSSOP	7.10	5.68	4.80
TPS54073PWP	296-17775-ND	2.2-4V, 14A Sync. Buck Converter	28-HTSSOP	8.83	7.95	7.05
TPS54872PWP	296-15674-5-ND	Sync. PWM Switcher	28-TSSOP	7.90	6.32	5.34
TPS54972PWP	296-15675-5-ND	Sync. PWM Switcher	28-TSSOP	8.40	6.72	5.67
TPS5615PWP	296-2022-5-ND	Buck Regulator Controller	28-HTSSOP	7.40	5.92	5.00
TPS5618PWP	296-2023-5-ND	Buck Regulator Controller	28-HTSSOP	7.40	5.92	5.00
TPS5625PWP	296-2024-5-ND	Buck Regulator Controller	28-HTSSOP	7.40	5.92	5.00
TPS5633PWP	296-2025-5-ND	Buck Regulator Controller	28-HTSSOP	7.40	5.92	5.00
TPS40000DGQ	296-13051-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.48	1.98	1.49
TPS40001DGQ	296-13052-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.10	1.68	1.26
TPS40002DGQ	296-13053-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.48	1.98	1.49
TPS40003DGQ	296-13054-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.10	1.68	1.26
TPS40004DGQ	296-15715-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.30	1.84	1.43
TPS40005DGQ	296-15716-5-ND	Low-Input, Voltage Mode Synchronous Buck Controller	10-MSOP	2.48	1.98	1.49
TPS40007DGQ	296-17067-ND	Low-Input, High-Efficiency, Sync. Buck Controller	10-MSOP	2.70	2.16	1.68
TPS40007EVM-001	296-18949-ND	Evaluation Module for TPS40007-001	—	62.78	—	—
TPS40009DGQ	296-17068-ND	Low-Input, High-Efficiency, Sync. Buck Controller	10-MSOP	3.96	2.97	2.23
TPS40009EVM-001	296-18950-ND	Evaluation Module for TPS40009-001	—	62.78	—	—
TPS40020PWP	296-16713-ND	Low-Input, Voltage Mode, Sync. Buck Controller	16-HTSSOP	2.59	2.07	1.61

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS40021PWP	296-16714-ND	Low-Input, Voltage Mode, Sync. Buck Controller	16-HTSSOP	2.59	2.07	1.61
TPS40021EVM-001	296-18951-ND	Evaluation Module for TPS40021-001	—	62.78	—	—
TPS40050PWP	296-15042-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.15	2.52	1.96
TPS40050QPWPRQ1	296-16963-1-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.71	2.97	2.31
TPS40050QPWPRQ1	296-16963-2-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	4208.00/2,000		
TPS40051PWP	296-15043-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.15	2.52	1.96
TPS40051QPWPRQ1	296-16964-1-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.71	2.97	2.31
TPS40051QPWPRQ1	296-16964-2-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	4208.00/2,000		
TPS40053PWP	296-15044-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.15	2.52	1.96
TPS40054PWP	296-18952-5-ND	Wide-Input, Sync. Buck Controller	16-HTSSOP	3.04	2.43	1.89
TPS40055EVM-001	296-18953-ND	Evaluation Module for TPS40055-001	—	62.78	—	—
TPS40055EVM-002	296-18954-ND	Evaluation Module for TPS40055-002	—	62.78	—	—
TPS40055PWP	296-17510-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	3.04	2.43	1.89
TPS40057PWP	296-17235-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	3.04	2.43	1.89
TPS40060EVM	296-18955-ND	Evaluation Module for TPS40060	—	62.78	—	—
TPS40060PWP	296-14389-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	3.15	2.52	1.96
TPS40061PWP	296-14390-ND	Wide-Input Sync. Buck Controller	16-HTSSOP	3.15	2.52	1.96
TPS40070PWP	296-16773-ND	Sync. Buck Controller	16-HTSSOP	3.04	2.43	1.89
TPS40071EVM-001	296-18956-ND	Evaluation Module for TPS40071-001	—	62.78	—	—
TPS40071PWP	296-16774-ND	Sync. Buck Controller	16-HTSSOP	3.04	2.43	1.89
TPS40074EVM001	296-18726-ND	Evaluation Module For TPS40074	—	62.78	—	—
TPS40074RHLR	296-18670-1-ND	Midrange Input Sync. Buck Controller	20-QFN	3.04	2.43	1.89
TPS40074RHLR	296-18670-2-ND	Midrange Input Sync. Buck Controller	20-QFN	5103.00/3,000		
TPS40091PW	296-17212-5-ND	Prog. Sync. Buck Controller	24-TSSOP	4.28	3.42	2.66
TPS40100RGET	296-18077-1-ND	Mid-Range Input Sync. Buck Controller	24-QFN	3.60	2.88	2.24
TPS40100RGET	296-18077-2-ND	Mid-Range Input Sync. Buck Controller	24-QFN	532.00/250		
TPS40130DBT	296-17348-ND	2-Phase Sync. Buck Controller	30-TSSOP	2.93	2.34	1.82
TPS40130EVM-001	296-17491-ND	Evaluation Module for TPS40130	—	62.78	—	—
TPS40130RHBR	296-19360-1-ND	2-Phase Sync. Buck Controller ***NEW!***	32-QFN	2.93	2.34	1.82
TPS40130RHBR	296-19360-2-ND	2-Phase Sync. Buck Controller ***NEW!***	32-QFN	4914.00/3,000		
TPS40130RHBT	296-18727-1-ND	2-Phase Sync. Buck Controller	32-QFN	3.26	2.61	2.03
TPS40130RHBT	296-18727-2-ND	2-Phase Sync. Buck Controller	32-QFN	482.25/250		
TPS40190DRCR	296-18340-1-ND	Sync. Buck Controller	10-SON	2.48	1.98	1.49
TPS40190DRCR	296-18340-2-ND	Sync. Buck Controller	10-SON	3801.00/3,000		
TPS40190EVM-001	296-19477-ND	Eval. Module for TPS40190-001 ***NEW!***	—	62.78	—	—
TPS40222DRPT	296-19361-1-ND	1.6A, 1.25MHz Buck Converter ***NEW!***	6-SON	2.00	1.60	1.20
TPS40222DRPT	296-19361-2-ND	1.6A, 1.25MHz Buck Converter ***NEW!***	6-SON	280.00/250		
TPS51100DGQ	296-17851-5-ND	3A Sink/Source DDR Termination Regulator	10-MSOP	2.00	1.60	1.20
TPS51100EVM-001	296-17268-ND	Evaluation Module for TPS51100	—	62.78	—	—
TPS51116EVM-001	296-18959-ND	Evaluation Module for TPS51116-001	—	62.78	—	—
TPS51116PWP	296-17243-ND	Sync. Buck Controller	20-HTSSOP	2.70	2.16	1.68
TPS51116RGE	296-18584-5-ND	Complete DDR/DDR2 Memory Power Solution Sync. Buck Controller	24-QFN	2.70	2.16	1.68
TPS51116RGET	296-18638-1-ND	Complete DDR/DDR2 Memory Power Solution Sync. Buck Controller	24-PQFP	3.04	2.43	1.89
TPS51116RGET	296-18638-2-ND	Complete DDR/DDR2 Memory Power Solution Sync. Buck Controller	24-PQFP	449.00/250		
TPS54010PWP	296-17288-5-ND	14A Output Sync. Buck PWM Switcher	28-TSSOP	8.83	7.95	7.05
TPS54310PWP	296-12509-5-ND	Sync. Buck PWM Converter	20-HTSSOP	5.29	4.23	3.29
TPS54311PWP	296-12679-5-ND	Sync. Buck PWM Converter	20-HTSSOP	5.29	4.23	3.29
TPS54312PWP	296-12680-5-ND	Sync. Buck PWM Converter	20-HTSSOP	5.29	4.23	3.29
TPS54313PWP	296-12681-5-ND	Sync. Buck PWM Converter	20-HTSSOP	5.29	4.23	3.29
TPS54314PWP	296-12682-5-ND	Sync. Buck PWM Converter	20-HTSSOP	5.29	4.23	3.29
TPS54315PWP	296-12683-5-ND	Sync. Buck PWM Converter	20-HTSSOP	5.29	4.23	3.29
TPS54316PWP	296-12684-5-ND	Sync. Buck PWM Converter	20-HTSSOP	5.29	4.23	3.29
TPS54350MPWPREP	296-19527-1-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher ***NEW!***	16-HTSSOP	8.20	6.56	5.54
TPS54350MPWPREP	296-19527-2-ND	4.5V to 20V Input, 3A Output Sync. PWM Switcher ***NEW!***	16-HTSSOP	10250.00/2,000		
TPS54352PWP	296-17069-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.61	3.69	2.87
TPS54353PWP	296-17070-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.61	3.69	2.87
TPS54354PWP	296-17071-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.61	3.69	2.87
TPS54355PWP	296-17072-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.61	3.69	2.87
TPS54356EVM-058	296-18963-ND	Evaluation Module for TPS54356-058	—	14.23	—	—
TPS54356PWP	296-17073-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.61	3.69	2.87
TPS54357PWP	296-17074-ND	4.5V to 20V Input, 3A Output, Sync. PWM Converter	16-HTSSOP	4.61	3.69	2.87
TPS54373EVM-237	296-18964-ND	Evaluation Module for TPS54373-237	—	14.23	—	—
TPS54373PWP	296-14327-5-ND	3A Sync. Buck Switcher	20-HTSSOP	5.29	4.23	3.29
TPS54380EVM-001	296-18965-ND	Evaluation Module for TPS54380-001	—	14.23	—	—
TPS54380PWP	296-14391-ND	3A Sync. Buck PWM Switcher	20-HTSSOP	5.29	4.23	3.29
TPS54610MPWPREP	296-19433-1-ND	3V to 6V Input, 6A Output Fselhronous Buck PWM Switcher ***NEW!***	28-HTSSOP	12.56	11.31	10.03
TPS54610MPWPREP	296-19433-2-ND	3V to 6V Input, 6A Output Fselhronous Buck PWM Switcher ***NEW!***	28-HTSSOP	18624.00/2,000		
TPS54613MPWPREP	296-19528-1-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	12.56	11.31	10.03
TPS54613MPWPREP	296-19528-2-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	18624.00/2,000		
TPS54615MPWPREP	296-19529-1-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	12.56	11.31	10.03
TPS54615MPWPREP	296-19529-2-ND	3V to 6V Input, 6A Output Sync. Buck PWM Switcher ***NEW!***	28-HTSSOP	18624.00/2,000		
TPS54673PWP	296-13828-5-ND	3V to 6V Input, 6A Sync. Buck Switcher	28-HTSSOP	6.70	5.36	4.53
TPS54680PWP	296-13829-5-ND	3V to 6V Input, 6A Sync. Buck PWM Switcher (Swift™)	28-HTSSOP	6.70	5.36	4.53
TPS54680QPWPREP	296-18153-1-ND	3V to 6V Input, 6A Sync. Buck PWM Switcher (Swift™)	28-HTSSOP	15.41	13.88	12.31
TPS54680QPWPREP	296-18153-2-ND	3V to 6V Input, 6A Sync. Buck PWM Switcher (Swift™)	28-HTSSOP	22848.00/2,000		
TPS54810PWP	296-12715-5-ND	Sync. Buck PWM Converter	28-HTSSOP	7.90	6.32	5.34
TPS54873PWP	296-13830-5-ND	4V to 6V Input, 8A Sync. Buck Switcher	28-HTSSOP	7.90	6.32	5.34
TPS54880PWP	296-13831-5-ND	4V to 6V Input, 8A Sync. Buck PWM Switcher (Swift™)	28-HTSSOP	7.90	6.32	5.34
TPS54973EVM-017	296-18966-ND	Evaluation Module for TPS54973-017	—	14.23	—	—
TPS54973PWP	296-14414-5-ND	9A Sync. Buck Switcher	28-HTSSOP	8.40	6.72	5.67
TPS54980EVM-022	296-18967-ND	Evaluation Module for TPS54980-022	—	14.23	—	—
TPS54980PWP	296-14415-5-ND	9A Sync. Buck PWM Switcher	28-HTSSOP	8.40	6.72	5.67
TPS60240DGKR	296-12510-1-ND	3.3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.59	2.07	1.61
TPS60240DGKR	296-12510-2-ND	3.3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	3622.50/2,500		
TPS60241DGKT	296-12241-1-ND	Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.81	2.25	1.75
TPS60241DGKT	296-12241-2-ND	Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	415.75/250		
TPS60242DGKT	296-12511-5-ND	2.7V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.81	2.25	1.75
TPS60243DGKT	296-12512-5-ND	3V Zero-Ripple Switched Cap Buck-Boost Converter	8-MSOP	2.81	2.25	1.75
TPS62100D	296-10976-5-ND	Adjustable Sync. Buck Converter	8-SOP	4.28	3.42	2.66
TPS62101D	296-10977-5-ND	Adjustable Sync. Buck Converter	8-SOP	4.28	3.42	2.66
TPS62102D	296-10978-5-ND	Adjustable Sync. Buck Converter	8-SOP	4.28	3.42	2.66
TPS62103D	296-10979-5-ND	Adjustable Sync. Buck Converter	8-SOP	4.28	3.42	2.66
UCC2541PWP	296-19371-ND	High Efficiency Sync. Buck PWM Controller ***NEW!***	20-HTSSOP	3.26	2.61	2.03
UCC2541RHBR	296-19372-1-ND	High Efficiency Sync. Buck PWM Controller ***NEW!***	32-QFN	3.26	2.61	2.03
UCC2541RHBR	296-19372-2-ND	High Efficiency Sync. Buck PWM Controller ***NEW!***	32-QFN	5481.00/3,000		
UCC3585D	296-11448-5-ND	Low Voltage Buck Controller	16-SOIC	2.93	2.34	1.82
UCC3585M	296-11450-5-ND	Low Voltage Buck Controller	16-SSOP	2.93	2.34	1.82
UCC3585N	296-11451-5-ND	Low Voltage Buck Controller	16-Dip	2.93	2.34	1.82
UCC27221PWP	296-14216-5-ND	Predictive Sync. Buck Driver	14-HTSSOP	3.04	2.43	1.89
UCC27222PWP	296-14217-5-ND	Predictive Sync. Buck Driver	14-HTSSOP	3.04	2.43	1.89
UCC27223PWP	296-19035-5-ND	Predictive Sync. Buck Driver	14-HTSSOP	3.49	2.79	2.17

DC-to-DC Converters

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
0722MG	0722MG-ND	Dual-Isolated DC/DC Converter	20-OmniPak	324.30	302.68	281.06
DCP021212DU	296-9446-5-ND	2W Unregulated DC/DC Converter	28-SOIC	11.75	10.58	9.38
DCP021212U	296-9447-5-ND	2W Unregulated DC/DC Converter	28-SOIC	11.75	10.58	9.38
DCP021215DP	296-19408-5-ND	2W Unregulated DC/DC Converter ***NEW!***	14-Dip	11.58	10.43	9.25
DCP021515U	296-9448-5-ND	2W Unregulated DC/DC Converter	28-SOIC	11.75	10.58	9.38
DCP022405U	296-12367-5-ND	2W DC/DC Conv., 24V In, ±5V Out	28-SOIC	11.75	10.58	9.38
DCP022412DP	296-19409-5-ND	2W Unregulated DC/DC Converter ***NEW!***	14-Dip	11.00	9.90	8.78
DCP022415DU	296-9449-5-ND	2W Unregulated DC/DC Converter	28-SOIC	11.75	10.58	9.38
DCP022418DP	296-19410-5-ND	2W Unregulated DC/DC Converter ***NEW!***	14-Dip	11.58	10.43	9.25
DCP010505BP	DCP010505BP-ND	Isolated DC/DC Converter, 5V In, 5V Out	14-Dip	8.91	8.03	7.12
DCP010505BP-U	DCP010505BP-U-ND	Isolated DC/DC Converter, 5V In, 5V Out	14-GullWing	8.91	8.03	7.12
DCP010505DBP	DCP010505DBP-ND	Isolated DC/DC Converter, 5V In, Dual ±5V Out	14-Dip	9.83	8.85	7.85
DCP010505DBP-U	DCP010505DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual ±5V Out	14-GullWing	9.83	8.85	7.85
DCP010507DBPUE4	296-18686-5-ND	Miniature 1W Isolated Unregulated DC/DC Converters	7-SOP	9.83	8.85	7.85
DCP010507DBPE4	296-18687-5-ND	Miniature 1W Isolated Unregulated DC/DC Converters	7-PDip	9.83	8.85	7.85
DCP010512BP	DCP010512BP-ND	Isolated DC-DC Converter, 5V In, 12V Out	14-Dip	8.91	8.03	7.12
DCP010512BP-U	DCP010512BP-U-ND	Isolated DC/DC Converter, 5V In, 12V Out	14-GullWing	8.91	8.03	7.12
DCP010512DBP	DCP010512DBP-ND	Isolated DC/DC Converter, 5V In, Dual 12V Out	14-Dip	9.83	8.85	7.85
DCP010512DBP-U	DCP010512DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual 12V Out	14-GullWing	9.83	8.85	7.85
DCP010515BP	DCP010515BP-ND	Isolated DC/DC Converter, 5V In, 15V Out	14-Dip	8.91	8.03	7.12
DCP010515BP-U	DCP010515BP-U-ND	Isolated DC/DC Converter, 5V In, 15V Out	14-GullWing	8.91	8.03	7.12
DCP010515DBP	DCP010515DBP-ND	Isolated DC/DC Converter, 5V In, Dual 15V Out	14-Dip	9.83	8.85	7.85
DCP010515DBP-U	DCP010515DBP-U-ND	Isolated DC/DC Converter, 5V In, Dual 15V Out	14-GullWing	8.91	8.03	7.12
DCP011512DBP	DCP011512DBP-ND	Isolated DC/DC Converter, 15V In, Dual ±12V Out	14-Dip	9.83	8.85	7.85
DCP011512DBP-U	DCP011512DBP-U-ND	Isolated DC/DC Converter, 15V In, Dual ±12V Out	14-GullWing	9.83	8.85	7.85
DCP011515DBP	DCP011515DBP-ND	Isolated DC/DC Converter, 15V In, Dual ±15V Out	14-Dip	9.83	8.85	7.85
DCP011515DBP-U	DCP011515DBP-U-ND	Isolated DC/DC Converter, 15V In, Dual ±15V Out	14-GullWing	9.83	8.85	7.85
DCP012405BP	DCP012405BP-ND	Isolated DC/DC Converter, 24V In, 5V Out	14-Dip	8.91	8.03	7.12
DCP012405BP-U	DCP012405BP-U-ND	Isolated DC/DC Converter, 24V In, 5V Out	14-GullWing	8.91	8.03	7.12
DCP012415DBP	DCP012415DBP-ND	Isolated DC/DC Converter, 24V In, Dual ±15V Out	14-Dip	9.83	8.85	7.85
DCP012415DBP-U	DCP012415DBP-U-ND	Isolated DC/DC Converter, 24V In, Dual ±15V Out	14-GullWing	9.83	8.85	7.85
DCP020503P	DCP020503P-ND	2W DC/DC Converter, 5V In, 3V Out	14-Dip	11.58	10.43	9.25
DCP020503U	DCP020503U-ND	2W DC/DC Converter, 5V In, 3V Out	28-SOIC	11.75	10.58	9.38
DCP020505P	DCP020505P-ND	2W DC/DC Converter, 5V In, 5V Out	14-Dip	11.58	10.43	9.25
DCP020505U	DCP020505U-ND	2W DC/DC Converter, 5V In, 5V Out	28-SOIC	11.75	10.58	9.38
DCP020507P	DCP020507P-ND	2W DC/DC Converter, 5V In, 7V Out	14-Dip	11.58	10.43	9.25
DCP020507U	DCP020507U-ND	2W DC/DC Converter, 5V In, 7V Out	28-SOIC	11.75	10.58	9.38
DCP020509P	DCP020509P-ND	2W DC/DC Converter, 5V In, 9V Out	14-Dip	11.58	10.43	9.25
DCP020509U	DCP020509U-ND	2W DC/DC Converter, 5V In, 9V Out	28-SOIC	11.75	10.58	9.38
DCP020515DP	DCP020515DP-ND	2W DC/DC Converter, 5V In, ±15V Out	14-Dip	11.58	10.43	9.25
DCP020515DU	DCP020515DU-ND	2W DC/DC Conv., 5V In, ±15V Out	28-SOIC	11.75	10.58	9.38
DCP021205P	DCP021205P-ND	2W DC/DC Conv., 12V In, 5V Out	14-Dip	11.58	10.43	9.25
DCP021205U	DCP021205U-ND	2W DC/DC Conv., 12V In, 5V Out	28-SOIC	11.75	10.58	9.38
DCP021212DP	DCP021212DP-ND	2W DC/DC Conv., 12V In, ±12V Out	14-Dip	11.58	10.43	9.25
DCP021212P	DCP021212P-ND	2W DC/DC Conv., 12V In, 12V Out	14-Dip	11.58	10.43	9.25
DCP021515P	DCP021515P-ND	2W DC/DC Conv., 15V In, 15V Out	14-Dip	11.58	10.43	9.25
DCP022405DP	DCP022405DP-ND	2W DC/DC Conv., 24V In, ±5V Out	14-Dip	11.58	10.43	9.25

(Continued)

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T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
DCP022405P	DCP022405P-ND	2W DC/DC Conv., 24V In, 5V Out	14-Dip	11.58	10.43	9.25
DCP022415DP	DCP022415DP-ND	2W DC/DC Conv., 24V In, ±15V Out	14-Dip	11.58	10.43	9.25
DCR010503P	DCR010503P-ND	Isolated DC/DC Converter, 5V to 3V	18-Dip	9.91	8.93	7.92
DCR010503U	296-9450-5-ND	1W Regulated DC/DC Converter	28-SOIC	10.50	9.45	8.38
DCR010505P	DCR010505P-ND	Isolated DC/DC Converter, 5V to 5V	18-Dip	9.91	8.93	7.92
DCR010505U	296-9451-5-ND	1W Regulated DC/DC Converter	28-SOIC	10.50	9.45	8.38
DCR011203P	DCR011203P-ND	DC/DC Converter, 12V to 3V	18-Dip	9.91	8.93	7.92
DCR011203U	296-9452-5-ND	1W Regulated DC/DC Converter	28-SOIC	10.50	9.45	8.38
DCR011205P	DCR011205P-ND	DC/DC Converter, 12V to 5V	18-Dip	9.91	8.93	7.92
DCR011205U	296-9453-5-ND	1W Regulated DC/DC Converter	28-SOIC	10.50	9.45	8.38
DCR012403P	296-9454-5-ND	1W Regulated DC/DC Converter	18-Dip	9.91	8.93	7.92
DCR012403U	296-9455-5-ND	1W Regulated DC/DC Converter	28-SOIC	10.50	9.45	8.38
DCR012405P	296-9456-5-ND	1W Regulated DC/DC Converter	18-Dip	9.91	8.93	7.92
DCR012405U	296-9457-5-ND	1W Regulated DC/DC Converter	28-SOIC	10.50	9.45	8.38
DCR021205P	296-9458-5-ND	2W Regulated DC/DC Converter	10-Dip	12.16	10.95	9.71
DCR021205P-U	296-18420-5-ND	2W Regulated DC/DC Converter	10-SOP	12.16	10.95	9.71
DCR022405P	296-9459-5-ND	2W Regulated DC/DC Converter	10-Dip	12.16	10.95	9.71
DCR022405P-U	296-17138-ND	2W Regulated DC/DC Converter	10-MSOP	12.16	10.95	9.71
DCV010505DP	296-13450-5-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	14-Dip	15.08	13.58	12.04
DCV010505P	DCV010505P-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	14-Dip	14.16	12.75	11.31
DCV010505P-U	DCV010505P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 5V Out	14-GullWing	14.16	12.75	11.31
DCV010512DP	DCV010512DP-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 12V Out	14-Dip	15.08	13.58	12.04
DCV010512DP-U	DCV010512DP-U-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 12V Out	14-GullWing	15.08	13.58	12.04
DCV010512P	DCV010512P-ND	Mini, Isolated DC/DC Converter, 5V In, 12V Out	14-Dip	14.16	12.75	11.31
DCV010512P-U	DCV010512P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 12V Out	14-GullWing	14.16	12.75	11.31
DCV010515DP	DCV010515DP-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 15V Out	14-Dip	15.08	13.58	12.04
DCV010515DP-U	DCV010515DP-U-ND	Mini, Isolated DC/DC Converter, 5V In, Dual 15V Out	14-GullWing	15.08	13.58	12.04
DCV010515P	DCV010515P-ND	Mini, Isolated DC/DC Converter, 5V In, 15V Out	14-Dip	14.16	12.75	11.31
DCV010515P-U	DCV010515P-U-ND	Mini, Isolated DC/DC Converter, 5V In, 15V Out	14-GullWing	14.16	12.75	11.31
DCV011512DP	DCV011512DP-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	14-Dip	15.08	13.58	12.04
DCV011512DP-U	DCV011512DP-U-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	14-GullWing	15.08	13.58	12.04
DCV011512DP-U/700	DCV011512DP-UTR-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 12V Out	14-GullWing	7919.10/700		
DCV011515DP	DCV011515DP-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	14-Dip	15.08	13.58	12.04
DCV011515DP-U	DCV011515DP-U-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	14-GullWing	15.08	13.58	12.04
DCV011515DP-U/700	DCV011515DP-UTR-ND	Mini, Isolated DC/DC Converter, 15V In, Dual 15V Out	14-GullWing	7919.10/700		
DCV012405P	DCV012405P-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	14-Dip	14.16	12.75	11.31
DCV012405P-U	DCV012405P-U-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	14-GullWing	14.16	12.75	11.31
DCV012405P-U/700	DCV012405P-UTR-ND	Mini, Isolated DC/DC Converter, 24V In, 5V Out	14-GullWing	7481.60/700		
DCV012415DP	DCV012415DP-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	14-Dip	15.08	13.58	12.04
DCV012415DP-U	DCV012415DP-U-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	14-GullWing	15.08	13.58	12.04
DCV012415DP-U/700	DCV012415DP-UTR-ND	Mini, Isolated DC/DC Converter, 24V In, Dual 15V Out	14-GullWing	7919.10/700		
LT1054CDW	296-9590-5-ND	Switched-Cap. Voltage Converter with Regulator	16-SOIC	2.00	1.60	1.20
LT1054CDWR	296-14618-1-ND	Switched-Cap. Voltage Converter with Regulator	16-SOIC	2.00	1.60	1.20
LT1054CDWR	296-14618-2-ND	Switched-Cap. Voltage Converter with Regulator	16-SOIC	2080.00/2,000		
LT1054CP	296-9591-5-ND	Switched-Cap. Voltage Converter with Regulator	8-Dip	2.00	1.60	1.20
LT1054IDW	296-9592-5-ND	Switched-Cap. Voltage Converter with Regulator	16-SOIC	2.93	2.34	1.82
LT1054IDWR	296-17595-1-ND	Switched-Cap. Voltage Converter with Regulator	16-SOIC	2.93	2.34	1.82
LT1054IDWR	296-17595-2-ND	Switched-Cap. Voltage Converter with Regulator	16-SOIC	3316.00/2,000		
LT1054IP	296-17596-5-ND	Switched-Cap. Voltage Converter with Regulator	8-Dip	2.93	2.34	1.82
REG710NA-2.5/250	296-12133-1-ND	2.5V, 30mA DC/DC Converter	SOT-23-6	1.78	1.42	1.07
REG710NA-2.5/250	296-12133-2-ND	2.5V, 30mA DC/DC Converter	SOT-23-6	248.50/250		
REG710NA-2.7/250	296-12134-1-ND	2.7V, 30mA DC/DC Converter	SOT-23-6	1.78	1.42	1.07
REG710NA-2.7/250	296-12134-2-ND	2.7V, 30mA DC/DC Converter	SOT-23-6	248.50/250		
REG710NA-3.3/250	296-12135-1-ND	3.3V, 30mA DC/DC Converter	SOT-23-6	1.78	1.42	1.07
REG710NA-3.3/250	296-12135-2-ND	3.3V, 30mA DC/DC Converter	SOT-23-6	248.50/250		
REG710NA-3/250	296-12136-1-ND	3.0V, 30mA DC/DC Converter	SOT-23-6	1.78	1.42	1.07
REG710NA-3/250	296-12136-2-ND	3.0V, 30mA DC/DC Converter	SOT-23-6	248.50/250		
REG710NA-5/250	296-12137-1-ND	5.0V, 30mA DC/DC Converter	SOT-23-6	1.78	1.42	1.07
REG710NA-5/250	296-12137-2-ND	5.0V, 30mA DC/DC Converter	SOT-23-6	248.50/250		
REG711EA-2.5/2K5	REG711EA2.52K5CT-ND	2.5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.25	1.80	1.35
REG711EA-2.5/2K5	REG711EA2.52K5TR-ND	2.5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2880.00/2,500		
REG711EA-2.7/2K5	REG711EA2.72K5CT-ND	2.7V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.25	1.80	1.35
REG711EA-2.7/2K5	REG711EA2.72K5TR-ND	2.7V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2880.00/2,500		
REG711EA-3/2K5	REG711EA-3/2K5CT-ND	3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.25	1.80	1.35
REG711EA-3/2K5	REG711EA-3/2K5TR-ND	3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2880.00/2,500		

T. I.	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	25	100
REG711EA-3.3/250	REG711EA3.3250CT-ND	3.3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.48	1.98	1.49
REG711EA-3.3/250	REG711EA3.3250TR-ND	3.3V, 50mA Switched-Cap DC/DC Converter	8-MSOP	346.50/250		
REG711EA-5/2K5	REG711EA-5/2K5CT-ND	5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2.25	1.80	1.35
REG711EA-5/2K5	REG711EA-5/2K5TR-ND	5V, 50mA Switched-Cap DC/DC Converter	8-MSOP	2880.00/2,500		
REG71050DDCT	296-17420-1-ND	60mA Buck/Boost Converter	TSOT-23-6	1.78	1.42	1.07
REG71050DDCT	296-17420-2-ND	60mA Buck/Boost Converter	TSOT-23-6	248.50/250		
REG71055DDCT	296-15370-1-ND	60mA Switched-Cap Buck/Boost Converter	TSOT-6	1.78	1.42	1.07
REG71055DDCT	296-15370-2-ND	60mA Switched-Cap Buck/Boost Converter	TSOT-6	248.50/250		
TPS2490DGS	296-17085-ND	Positive High-Volt. Power-Limiting Hotswap Controller	10-MSOP	3.83	3.06	2.38
TPS5102IDBT	296-2260-5-ND	Dual DC/DC Controller	30-SSOP	5.50	4.40	3.72
TPS5103IDB	296-2261-5-ND	Multimode DC/DC Controller	20-SSOP	3.83	3.06	2.38
TPS5120QDBTREP	296-18639-1-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	13.31	11.99	10.63
TPS5120QDBTREP	296-18639-2-ND	Dual Output, 2-Phase Sync. Buck DC/DC Controller	30-TSSOP	19736.00/2,000		
TPS5124DBT	296-15863-5-ND	Dual Channel, Sync. Step-Down PWM Controller	30-TSSOP	4.84	3.87	3.01
TPS5124EVM	296-18960-ND	Evaluation Module for TPS5124	—	62.78	—	—
TPS5140PAG	296-12364-ND	Quad-Out High Efficiency DC/DC Controller	64-TQFP	8.83	7.95	7.05
TPS5300DAP	296-12508-5-ND	CPU Power Supply Controller	32-TSSOP	6.90	5.52	4.66
TPS5430DDA	296-19447-5-ND	5.5V to 36V, 3A Step-Down Swift™ Converter ***NEW!***	8-SOIC	4.16	3.33	2.59
TPS5430EVM-136	296-19432-ND	Evaluation Module for TPS5430-136 ***NEW!***	—	14.23	—	—
TPS5602IDBT	296-2262-5-ND	Dual DC/DC Controller	30-SSOP	6.80	5.44	4.59
TPS6734ID	296-3225-5-ND	12V, 120mA Boost Converter	8-SOIC	2.10	1.68	1.26
TPS6734IDR	296-3225-1-ND	12V, 120mA Boost Converter	8-SOIC	2.10	1.68	1.26
TPS6734IDR	296-3225-2-ND	12V, 120mA Boost Converter	8-SOIC	2687.50/2,500		
TPS6734IP	296-3226-5-ND	12V, 120mA Boost Converter	8-Dip	2.10	1.68	1.26
TPS6735ID	296-10982-5-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	2.10	1.68	1.26
TPS6735IDR	296-10982-1-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	2.10	1.68	1.26
TPS6735IDR	296-10982-2-ND	Neg. 5V, 200mA DC/DC Converter	8-SOIC	2687.50/2,500		
TPS6735IP	296-10983-5-ND	Neg. 5V, 200mA DC/DC Converter	8-Dip	2.10	1.68	1.26
TPS6755ID	296-10984-5-ND	Adj., 200mA DC/DC Converter	8-SOIC	2.36	1.89	1.47
TPS6755IP	296-10985-5-ND	Adj., 200mA DC/DC Converter	8-Dip	2.36	1.89	1.47
TPS23750PWPR	296-18669-1-ND	100V, IEEE 802.3af PD and DC/DC Controller	20-HTSSOP	3.38	2.70	2.10
TPS23750PWPR	296-18669-2-ND	100V, IEEE 802.3af PD and DC/DC Controller	20-HTSSOP	3826.00/2,000		
TPS40052PWP	296-15751-5-ND	Wide Input Sync. Buck Controller	16-HTSSOP	3.15	2.52	1.96
TPS40090EVM-002	296-18957-ND	Evaluation Module for TPS40090-002	—	62.78	—	—
TPS40090PW	296-15881-5-ND	Multiphase Sync. Buck Controller	24-TSSOP	4.28	3.42	2.66
TPS40120PW	296-17389-ND	Programmable Feedback Divider	14-HTSSOP	1.47	1.23	.98
TPS40200EVM-001	296-19607-ND	Evaluation Module for TPS40200 ***NEW!***	—	62.78	—	—
TPS51020DBT	296-15896-5-ND	Sync. Dual DC/DC Controller	30-TSSOP	5.40	4.32	3.36
TPS51020EVM-001	296-18958-ND	Evaluation Module for TPS51020-001	—	62.78	—	—
TPS51117PW	296-19425-5-ND	Singe Sync. Step-Down Converter ***NEW!***	14-TSSOP	2.70	2.16	1.68
TPS51120EVM-001	296-19608-ND	Evaluation Module for TPS51120 ***NEW!***	—	126.84	—	—
TPS51120RHBT	296-18341-1-ND	Dual Current Mode, Sync. Step-Down Controller	32-QFN	5.50	4.40	3.72
TPS51120RHBT	296-18341-2-ND	Dual Current Mode, Sync. Step-Down Controller	32-QFN	893.75/250		
TPS51124RGET	296-19295-1-ND	Dual Sync. Step-Down Controller	24-QFN	5.00	4.00	3.38
TPS51124RGET	296-19295-2-ND	Dual Sync. Step-Down Controller	24-QFN	812.50/250		
TPS54010EVM-067	296-17269-ND	Evaluation Module for TPS54010	—	62.78	—	—
TPS54110EVM-044	296-18961-ND	Evaluation Module for TPS54110-044	—	14.23	—	—
TPS54350EVM-235	296-18962-ND	Evaluation Module for TPS54350-235	—	14.23	—	—
TPS54350PWP	296-15882-5-ND	Sync. Buck PWM Converter	16-HTSSOP	4.61	3.69	2.87
XILINXPWR-079	296-19048-ND	Evaluation Module for Xilinx FPGA	—	254.96	—	—
XILINXPWR-080	296-19049-ND	Evaluation Module for Xilinx FPGA	—	254.96	—	—
XILINXPWR-081	296-17394-ND	Evaluation Module for Xilinx FPGA	—	254.96	—	—
XILINXPWR-082	296-17304-ND	Evaluation Module for Xilinx FPGA	—	254.96	—	—
XILINXPWR-083	296-17395-ND	Evaluation Module for Xilinx FPGA	—	254.96	—	—
TPS54610PWP	296-12123-5-ND	Low Input Voltage, 6A Continuous Buck Converter 3.3V Out	28-HTSSOP	6.70	5.36	4.53
TPS54611PWP	296-12124-5-ND	Low Input Voltage 6A Continuous Buck Converter 0.9V Out	28-HTSSOP	6.70	5.36	4.53
TPS54612PWP	296-12125-5-ND	Low Input Voltage 6A Continuous Buck Converter 1.2V Out	28-HTSSOP	6.70	5.36	4.53
TPS54613PWP	296-12126-5-ND	Low Input Voltage 6A Continuous Buck Converter 1.5V Out	28-HTSSOP	6.70	5.36	4.53
TPS54614PWP	296-12127-5-ND	Low Input Voltage 6A Continuous Buck Converter 1.8V Out	28-HTSSOP	6.70	5.36	4.53
TPS54615PWP	296-12128-5-ND	Low Input Voltage 6A Continuous Buck Converter 2.5V Out	28-HTSSOP	6.70	5.36	4.53
TPS54672PWP	296-12130-5-ND	Track-Termination Sync. PWM Switcher with Integrated FETs	28-HTSSOP	6.70	5.36	4.53
TPS54900PW	296-13408-5-ND	Programmable 4-Channel Step-Down DC/DC Converter	16-TSSOP	11.50	10.35	9.18
TPS60100PWP	296-2263-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	2.81	2.25	1.75
TPS60101PWP	296-2264-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60110PWP	296-2265-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	2.93	2.34	1.82
TPS60111PWP	296-2266-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	2.59	2.07	1.61
TPS60120PWP	296-2267-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	2.81	2.25	1.75
TPS60121PWP	296-2268-5-ND	3.3V, 0.2A, DC/DC Converter	20-HTSSOP	2.81	2.25	1.75
TPS60122PWP	296-2269-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60123PWP	296-2270-5-ND	3.3V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60124PWP	296-10948-5-ND	3.3V, 200mA, DC/DC Converter	20-HTSSOP	2.81	2.25	1.75
TPS60125PWP	296-10949-5-ND	3.3V, 200mA, DC/DC Converter	20-HTSSOP	2.81	2.25	1.75
TPS60130PWP	296-2271-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	2.93	2.34	1.82
TPS60131PWP	296-2272-5-ND	5V, 0.3A, DC/DC Converter	20-HTSSOP	2.93	2.34	1.82
TPS60132PWP	296-2273-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	2.59	2.07	1.61

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS60133PWP	296-2274-5-ND	5V, 0.15A, DC/DC Converter	20-HTSSOP	2.59	2.07	1.61
TPS60140PWP	296-2275-5-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60140PWPR	296-2275-1-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60140PWPR	296-2275-2-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2678.00/2,000		
TPS60141PWP	296-2276-5-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60141PWPR	296-2276-1-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2.36	1.89	1.47
TPS60141PWPR	296-2276-2-ND	5V, 0.1A, DC/DC Converter	20-HTSSOP	2678.00/2,000		
TPS60200DGS	296-10954-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.36	1.89	1.47
TPS60201DGS	296-10956-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.36	1.89	1.47
TPS60202DGS	296-10957-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.38	1.90	1.43
TPS60203DGS	296-10958-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.38	1.90	1.43
TPS60204DGSR	296-12365-1-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	2.36	1.89	1.47
TPS60204DGSR	296-12365-2-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	3307.50/2,500		
TPS60205DGSR	296-12366-1-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	2.36	1.89	1.47
TPS60205DGSR	296-12366-2-ND	Regulated 3.3V Low Ripple Charge Pump LP DC/DC Converter	10-MSOP	3307.50/2,500		
TPS60210DGS	296-10959-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.36	1.89	1.47
TPS60211DGS	296-10961-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.36	1.89	1.47
TPS60212DGS	296-10962-5-ND	3.3V, 100mA Low Ripple Charge Pump	10-TSSOP	2.38	1.90	1.43
TPS60213DGS	296-10963-5-ND	3.3V, 50mA Low Ripple Charge Pump	10-TSSOP	2.38	1.90	1.43
TPS60230EVM-047	296-18968-ND	Evaluation Module for TPS60230-047	—	62.78	—	—
TPS60230RGTT	296-17136-1-ND	White LED Charge Pump Current Source with PWM Brightness Control	16-QFN	3.71	2.97	2.31
TPS60230RGTT	296-17136-2-ND	White LED Charge Pump Current Source with PWM Brightness Control	16-QFN	548.75/250		
TPS60231EVM-047	296-17608-ND	Evaluation Module for TPS60231	—	62.78	—	—
TPS60231RGTR	296-17490-1-ND	White LED Charge Pump Current Source with PWM Brightness Control	16-QFN	3.15	2.52	1.96
TPS60231RGTR	296-17490-2-ND	White LED Charge Pump Current Source with PWM Brightness Control	16-QFN	5292.00/3,000		
TPS60300DGSR	296-13410-1-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.38	1.90	1.43
TPS60300DGSR	296-13410-2-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	3040.00/2,500		
TPS60301DGSR	296-13411-1-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.38	1.90	1.43
TPS60301DGSR	296-13411-2-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	3040.00/2,500		
TPS60302DGSR	296-13412-1-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.38	1.90	1.43
TPS60302DGSR	296-13412-2-ND	Single Cell to 3.3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	3040.00/2,500		
TPS60303DGSR	296-13413-1-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	2.38	1.90	1.43
TPS60303DGSR	296-13413-2-ND	Single Cell to 3V, 20mA Dual Output, High Effic. Charge Pump	10-MSOP	3040.00/2,500		
TPS60310DGSR	296-13414-1-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.36	1.89	1.47
TPS60310DGSR	296-13414-2-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	3307.50/2,500		
TPS60311DGSR	296-13415-1-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.36	1.89	1.47
TPS60311DGSR	296-13415-2-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	3307.50/2,500		
TPS60312DGSR	296-13416-1-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.36	1.89	1.47
TPS60312DGSR	296-13416-2-ND	Single Cell to 3.3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	3307.50/2,500		
TPS60313DGSR	296-13417-1-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	2.36	1.89	1.47
TPS60313DGSR	296-13417-2-ND	Single Cell to 3V, 20mA Dual Output High Efficiency Charge Pump with Snooze Mode	10-MSOP	3307.50/2,500		
TPS60400DBVT	296-12013-1-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	1.02	.85	.68
TPS60400DBVT	296-12013-2-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	127.50/250		
TPS60401DBVT	296-12014-1-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	1.02	.85	.68
TPS60401DBVT	296-12014-2-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	127.50/250		
TPS60402DBVT	296-12015-1-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	1.02	.85	.68
TPS60402DBVT	296-12015-2-ND	60mA Charge Pump Volt. Inverter	SOT-23-5	127.50/250		
TPS60403DBVT	296-13418-1-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	1.02	.85	.68
TPS60403DBVT	296-13418-2-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	127.50/250		
TPS60403QDBVRQ1	296-18036-1-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	1.11	.93	.74
TPS60403QDBVRQ1	296-18036-2-ND	Unregulated 60mA Charge Pump Voltage Inverter	SOT-23-5	1443.00/3,000		
TPS60500DGSR	296-17015-1-ND	250mA Step-Down Charge Pump	10-MSOP	2.00	1.60	1.20
TPS60500DGSR	296-17015-2-ND	250mA Step-Down Charge Pump	10-MSOP	2560.00/2,500		
TPS60501DGS	296-12514-5-ND	3.3V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	2.00	1.60	1.20
TPS60502DGS	296-12515-5-ND	1.8V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	2.00	1.60	1.20
TPS60503DGS	296-12516-5-ND	1.5V, 250mA High Efficiency Step-Down Charge Pump	10-MSOP	2.00	1.60	1.20
TPS61000DGS	296-3217-5-ND	Adj., 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61001DGS	296-3218-5-ND	1.5V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61002DGS	296-3219-5-ND	1.8V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61003DGS	296-3220-5-ND	2.5V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61004DGS	296-3221-5-ND	2.8V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61005DGS	296-3222-5-ND	3.0V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61006DGS	296-3223-5-ND	3.3V, 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61007DGS	296-3224-5-ND	Adj., 100mA Boost Converter	10-MSOP	2.25	1.80	1.35
TPS61010DGS	296-10969-5-ND	Adj., Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61011DGS	296-10970-5-ND	1.5V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61012DGS	296-10971-5-ND	1.8V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61013DGS	296-10972-5-ND	2.5V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61014DGS	296-10973-5-ND	2.8V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61015DGS	296-10974-5-ND	3.0V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61016DGS	296-10975-5-ND	3.3V Synchronous Boost Converter	10-TSSOP	2.48	1.98	1.54
TPS61020DRCR	296-15752-1-ND	Synchronous Boost Converter	10-SON	3.15	2.52	1.96
TPS61020DRCR	296-15752-2-ND	Synchronous Boost Converter	10-SON	5292.00/3,000		
TPS61020EVM-025	296-18969-ND	Evaluation Module for TPS61020-025	—	62.78	—	—
TPS61024DRCR	296-15753-1-ND	Synchronous Boost Converter	10-SON	3.15	2.52	1.96
TPS61024DRCR	296-15753-2-ND	Synchronous Boost Converter	10-SON	5292.00/3,000		
TPS61025DRCR	296-15844-1-ND	Synchronous Boost Converter	10-SON	3.15	2.52	1.96
TPS61025DRCR	296-15844-2-ND	Synchronous Boost Converter	10-SON	5292.00/3,000		
TPS61026DRCT	296-19558-1-ND	Sync. Boost Converter ***NEW!***	10-QFN	3.71	2.97	2.31
TPS61026DRCT	296-19558-2-ND	Sync. Boost Converter ***NEW!***	10-QFN	548.75/250		
TPS61027DRCR	296-15754-1-ND	Synchronous Boost Converter	10-SON	3.15	2.52	1.96
TPS61027DRCR	296-15754-2-ND	Synchronous Boost Converter	10-SON	5292.00/3,000		
TPS61028DRCR	296-18078-1-ND	Sync. Boost Converter with 1.5A Switch	10-SON	3.15	2.52	1.96
TPS61028DRCR	296-18078-2-ND	Sync. Boost Converter with 1.5A Switch	10-SON	5292.00/3,000		
TPS61029DRCT	296-19559-1-ND	Sync. Boost Converter ***NEW!***	10-QFN	3.71	2.97	2.31
TPS61029DRCT	296-19559-2-ND	Sync. Boost Converter ***NEW!***	10-QFN	548.75/250		
TPS61030PWPR	296-14416-1-ND	Single/Dual Cell Boost Converter	16-HTSSOP	4.73	3.78	2.94
TPS61030PWPR	296-14416-2-ND	Single/Dual Cell Boost Converter	16-HTSSOP	5356.00/2,000		
TPS61030RSAR	296-16660-1-ND	Adj., Synchronous Boost Converter	16-QFN	4.73	3.78	2.94
TPS61030RSAR	296-16660-2-ND	Adj., Synchronous Boost Converter	16-QFN	7938.00/3,000		
TPS61031PWPR	296-14417-1-ND	Single/Dual Cell Boost Converter	16-HTSSOP	4.73	3.78	2.94
TPS61031PWPR	296-14417-2-ND	Single/Dual Cell Boost Converter	16-HTSSOP	5356.00/2,000		
TPS61031RSAR	296-16661-1-ND	3.3V, Synchronous Boost Converter	16-QFN	4.73	3.78	2.94
TPS61031RSAR	296-16661-2-ND	3.3V, Synchronous Boost Converter	16-QFN	7938.00/3,000		
TPS61032PWPR	296-14418-1-ND	Single or Dual Cell Boost Converter	16-TSSOP	4.73	3.78	2.94
TPS61032PWPR	296-14418-2-ND	Single or Dual Cell Boost Converter	16-TSSOP	5356.00/2,000		
TPS61032RSAR	296-16662-1-ND	5V, Synchronous Boost Converter	16-QFN	4.73	3.78	2.94
TPS61032RSAR	296-16662-2-ND	5V, Synchronous Boost Converter	16-QFN	7938.00/3,000		
TPS61040DBVR	296-12685-1-ND	LP DC/DC Boost Converter	SOT-23-5	2.38	1.90	1.43
TPS61040DBVR	296-12685-2-ND	LP DC/DC Boost Converter	SOT-23-5	3648.00/3,000		
TPS61041DBVR	296-12686-1-ND	LP DC/DC Boost Converter	SOT-23-5	1.88	1.50	1.13
TPS61041DBVR	296-12686-2-ND	LP DC/DC Boost Converter	SOT-23-5	2880.00/3,000		
TPS61042DRBR	296-14449-1-ND	Constant Current LED Driver	8-QFN	2.70	2.16	1.68
TPS61042DRBR	296-14449-2-ND	Constant Current LED Driver	8-QFN	4536.00/3,000		
TPS61043DRBR	296-16675-1-ND	Constant Current LED Driver	8-SON	2.48	1.98	1.49
TPS61043DRBR	296-16675-2-ND	Constant Current LED Driver	8-SON	3801.00/3,000		
TPS61045DRBR	296-14419-1-ND	Adjustable LCD Boost Converter	8-SON	3.04	2.43	1.89
TPS61045DRBR	296-14419-2-ND	Adjustable LCD Boost Converter	8-SON	5103.00/3,000		
TPS61058DRCR	296-18728-1-ND	Sync. Boost Converter	10-QFN	2.13	1.70	1.28
TPS61058DRCR	296-18728-2-ND	Sync. Boost Converter	10-QFN	3264.00/3,000		
TPS61059DRCT	296-19426-1-ND	Sync. Boost Converter ***NEW!***	10-QFN	2.36	1.89	1.47
TPS61059DRCT	296-19426-2-ND	Sync. Boost Converter ***NEW!***	10-QFN	349.25/250		
TPS61059EVM-141	296-19609-ND	Evaluation Module for TPS61059 ***NEW!***	—	62.78	—	—
TPS61060DRBR	296-17500-1-ND	Constant Current LED Driver	8-SON	3.04	2.43	1.89
TPS61060DRBR	296-17500-2-ND	Constant Current LED Driver	8-SON	5103.00/3,000		
TPS61060YZFR	296-19296-1-ND	Constant Current LED Driver	8-DSBGA	3.26	2.61	2.03
TPS61060YZFR	296-19296-2-ND	Constant Current LED Driver	8-DSBGA	5481.00/3,000		
TPS61060YZFT	296-17745-1-ND	Constant Current LED Driver	8-DSBGA	3.60	2.88	2.24
TPS61060YZFT	296-17745-2-ND	Constant Current LED Driver	8-DSBGA	532.00/250		
TPS61061DRBR	296-17499-1-ND	Constant Current LED Driver	8-SON	3.04	2.43	1.89
TPS61061DRBR	296-17499-2-ND	Constant Current LED Driver	8-SON	5103.00/3,000		
TPS61061EVM-091	296-17517-ND	Evaluation Module for TPS61061-091	—	62.78	—	—
TPS61061YZFT	296-17746-1-ND	Constant Current LED Driver	8-DSBGA	3.60	2.88	2.24
TPS61061YZFT	296-17746-2-ND	Constant Current LED Driver	8-DSBGA	532.00/250		
TPS61062DRBR	296-17502-1-ND	Constant Current LED Driver	8-SON	3.04	2.43	1.89
TPS61062DRBR	296-17502-2-ND	Constant Current LED Driver	8-SON	5103.00/3,000		
TPS61062YZFT	296-17747-1-ND	Constant Current LED Driver	8-DSBGA	3.60	2.88	2.24
TPS61062YZFT	296-17747-2-ND	Constant Current LED Driver	8-DSBGA	532.00/250		
TPS61070DDCR	296-17151-1-ND	Synchronous Boost Converter with 600mA Switch	TSOT-6	2.38	1.90	1.43
TPS61070DDCR	296-17151-2-ND	Synchronous Boost Converter with 600mA Switch	TSOT-6	3648.00/3,000		
TPS61070EVM-062	296-18971-ND	Evaluation Module for TPS61070-062	—	62.78	—	—
TPS61071DDCR	296-17227-1-ND	Synchronous Boost Converter with 600mA Switch	TSOT-6	2.38	1.90	1.43
TPS61071DDCR	296-17227-2-ND	Synchronous Boost Converter with 600mA Switch	TSOT-6	3648.00/3,000		
TPS61090EVM-029	296-18972-ND	Evaluation Module for TPS61090-029	—	62.78	—	—
TPS61090RSAR	296-15259-1-ND	Sync. Boost Converter with 2A Switch	16-QFN	3.83	3.06	2.38
TPS61090RSAR	296-15259-2-ND	Sync. Boost Converter with 2A Switch	16-QFN	6426.00/3,000		
TPS61091RSAR	296-15239-1-ND	Sync. Boost Converter with 2A Switch	16-QFN	3.83	3.06	2.38
TPS61091RSAR	296-15239-2-ND	Sync. Boost Converter with 2A Switch	16-QFN	6426.00/3,000		
TPS61092RSAR	296-15240-1-ND	Sync. Boost Converter with 2A Switch	16-QFN	3.83	3.06	2.38
TPS61092RSAR	296-15240-2-ND	Sync. Boost Converter with 2A Switch	16-QFN	6426.00/3,000		
TPS61100PW	296-13515-5-ND	Adj., Dual Output, Single Cell Boost Converter	20-TSSOP	4.16	3.33	2.59
TPS61103PW	296-13516-5-ND	3.3V, Dual Output, Single Cell Boost Converter	20-TSSOP	4.16	3.33	2.59
TPS61106PW	296-13517-5-ND	3.3V, Dual Output, Single Cell Boost Converter	20-TSSOP	4.16	3.33	2.59
TPS61107PWR	296-13750-1-ND	Dual Output, Single Cell Boost Converter	20-TSSOP	4.16	3.33	2.59
TPS61107PWR	296-13750-2-ND	Dual Output, Single Cell Boost Converter	20-TSSOP	4718.00/2,000		

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS61120PW	296-13518-5-ND	Adj., Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	4.39	3.51	2.73
TPS61121PW	296-13519-5-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	4.39	3.51	2.73
TPS61121RSAR	296-18973-1-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-QFN	4.39	3.51	2.73
TPS61121RSAR	296-18973-2-ND	3.3V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-QFN	7371.00/3,000		
TPS61122PW	296-13520-5-ND	3.6V, Dual Output, Single Cell Li or Dual Cell Boost Converter	16-TSSOP	4.39	3.51	2.73
TPS62000YEGT	296-15776-1-ND	High Efficiency Step-Down, Low Power DC/DC Converter	12-WCSP	3.60	2.88	2.24
TPS62000YEGT	296-15776-2-ND	High Efficiency Step-Down, Low Power DC/DC Converter	12-WCSP	532.00/250		
TPS62000YZGT	296-19610-1-ND	High Efficiency Step-Down, Low Power DC/DC Converter ***NEW!***	12-WCSP	3.60	2.88	2.24
TPS62000YZGT	296-19610-2-ND	High Efficiency Step-Down, Low Power DC/DC Converter ***NEW!***	12-WCSP	532.00/250		
TPS62005QDGSRQ1	296-19427-1-ND	1.8V High Eff. Step Down, Low Power, DC/DC Converter ***NEW!***	10-MSOP	3.71	2.97	2.31
TPS62005QDGSRQ1	296-19427-2-ND	1.8V High Eff. Step Down, Low Power, DC/DC Converter ***NEW!***	10-MSOP	5197.50/2,500		
TPS62006DGSR	296-11617-1-ND	High Efficiency Step-Down, DC/DC Converter	10-MSOP	3.15	2.52	1.96
TPS62006DGSR	296-11617-2-ND	High Efficiency Step-Down, DC/DC Converter	10-MSOP	4410.00/2,500		
TPS62007DGS	296-12517-5-ND	3.3V High Efficiency Step-Down, DC/DC Converter	10-MSOP	3.15	2.52	1.96
TPS62007DGSR	296-11618-1-ND	3.3V High Efficiency Step-Down, DC/DC Converter	10-MSOP	3.15	2.52	1.96
TPS62007DGSR	296-11618-2-ND	3.3V High Efficiency Step-Down, DC/DC Converter	10-MSOP	4410.00/2,500		
TPS62008DGS	296-15676-5-ND	600mA High Efficiency, Step-Down, DC/DC Converter	10-MSOP	3.15	2.52	1.96
TPS62020DGQR	296-15250-1-ND	600mA High Efficiency Step-Down Converter	10-MSOP	3.60	2.88	2.24
TPS62020DGQR	296-15250-2-ND	600mA High Efficiency Step-Down Converter	10-MSOP	5040.00/2,500		
TPS62020DRCR	296-15897-1-ND	600mA High Efficiency Step-Down Converter	10-SON	3.60	2.88	2.24
TPS62020DRCR	296-15897-2-ND	600mA High Efficiency Step-Down Converter	10-SON	6048.00/3,000		
TPS62020EVM-019	296-18976-ND	Evaluation Module for TPS62020-019	—	62.78	—	—
TPS62021DGQR	296-17179-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	3.60	2.88	2.24
TPS62021DGQR	296-17179-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	5040.00/2,500		
TPS62021DRCR	296-17180-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-SON	3.60	2.88	2.24
TPS62021DRCR	296-17180-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-SON	6048.00/3,000		
TPS62026DGQR	296-17693-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	3.60	2.88	2.24
TPS62026DGQR	296-17693-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-MSOP	5040.00/2,500		
TPS62026DRCR	296-17694-1-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-QFN	3.60	2.88	2.24
TPS62026DRCR	296-17694-2-ND	600mA/1.25MHz High Efficiency Step-Down Converter	10-QFN	6048.00/3,000		
TPS62040DGQR	296-15219-1-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-MSOP	4.28	3.42	2.66
TPS62040DGQR	296-15219-2-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-MSOP	5985.00/2,500		
TPS62040DRCR	296-15898-1-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-SON	4.28	3.42	2.66
TPS62040DRCR	296-15898-2-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-SON	7182.00/3,000		
TPS62040EVM-229	296-18977-ND	Evaluation Module for TPS62040-229	—	62.78	—	—
TPS62042DGQR	296-15220-1-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-MSOP	4.28	3.42	2.66
TPS62042DGQR	296-15220-2-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-MSOP	5985.00/2,500		
TPS62042DRCR	296-15899-1-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-SON	4.28	3.42	2.66
TPS62042DRCR	296-15899-2-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-SON	7182.00/3,000		
TPS62043DGQR	296-15221-1-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-MSOP	4.28	3.42	2.66
TPS62043DGQR	296-15221-2-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-MSOP	5985.00/2,500		
TPS62043DRCR	296-15900-1-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-SON	4.28	3.42	2.66
TPS62043DRCR	296-15900-2-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-SON	7182.00/3,000		
TPS62044DGQR	296-15222-1-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-MSOP	4.28	3.42	2.66
TPS62044DGQR	296-15222-2-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-MSOP	5985.00/2,500		
TPS62044DRCR	296-15901-1-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-SON	4.28	3.42	2.66
TPS62044DRCR	296-15901-2-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-SON	7182.00/3,000		
TPS62046DGQR	296-15223-1-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-MSOP	4.28	3.42	2.66
TPS62046DGQR	296-15223-2-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-MSOP	5985.00/2,500		
TPS62046DRCR	296-15902-1-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-SON	4.28	3.42	2.66
TPS62046DRCR	296-15902-2-ND	1.2A, 1.25MHz, High Efficiency Step-Down Converter	10-SON	7182.00/3,000		
TPS62046EVM-229	296-18978-ND	Evaluation Module for TPS62046-229	—	62.78	—	—
TPS62050DGSR	296-14392-1-ND	800mA Sync. Step-Down Converter	10-MSOP	4.16	3.33	2.59
TPS62050DGSR	296-14392-2-ND	800mA Sync. Step-Down Converter	10-MSOP	5827.50/2,500		
TPS62051DGS	296-14209-5-ND	800mA Sync. Step-Down Converter	10-MSOP	4.16	3.33	2.59
TPS62052DGS	296-14210-5-ND	800mA Sync. Step-Down Converter	10-MSOP	4.16	3.33	2.59
TPS62054DGS	296-14211-5-ND	800mA Sync. Step-Down Converter	10-MSOP	4.16	3.33	2.59
TPS62056DGS	296-14212-5-ND	800mA Sync. Step-Down Converter	10-MSOP	4.16	3.33	2.59
TPS62200DBVR	296-12716-1-ND	Adj., High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.00	1.60	1.20
TPS62200DBVR	296-12716-2-ND	Adj., High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3072.00/3,000		
TPS62201DBVT	296-12717-1-ND	1.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.25	1.80	1.35
TPS62201DBVT	296-12717-2-ND	1.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	315.00/250		
TPS62202DBVR	296-16730-1-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.00	1.60	1.20
TPS62202DBVR	296-16730-2-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3072.00/3,000		
TPS62202DBVT	296-12718-1-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.25	1.80	1.35
TPS62202DBVT	296-12718-2-ND	1.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	315.00/250		
TPS62203DBVT	296-12719-1-ND	3.3V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.25	1.80	1.35
TPS62203DBVT	296-12719-2-ND	3.3V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	315.00/250		
TPS62204DBVT	296-12720-1-ND	1.6V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.25	1.80	1.35
TPS62204DBVT	296-12720-2-ND	1.6V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	315.00/250		
TPS62205DBVT	296-12721-1-ND	2.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.25	1.80	1.35
TPS62205DBVT	296-12721-2-ND	2.5V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	315.00/250		
TPS62207DBVT	296-17197-1-ND	1.2V, High Eff. Sync. Step-Down Converter	SOT-23-5	2.25	1.80	1.35
TPS62207DBVT	296-17197-2-ND	1.2V, High Eff. Sync. Step-Down Converter	SOT-23-5	315.00/250		
TPS62208DBVR	296-16966-1-ND	2.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	2.00	1.60	1.20
TPS62208DBVR	296-16966-2-ND	2.8V, High Efficiency Step-Down, DC/DC Converter	SOT-23-5	3072.00/3,000		
TPS62220DDCT	296-15793-1-ND	Adj., 400mA, High Efficiency Step-Down Converter	TSOT-23-5	3.49	2.79	2.17
TPS62220DDCT	296-15793-2-ND	Adj., 400mA, High Efficiency Step-Down Converter	TSOT-23-5	515.50/250		
TPS62220EVM-014	296-18979-ND	Evaluation Module for TPS62220-014	—	62.78	—	—
TPS62221DDCT	296-15794-1-ND	1.5V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	3.71	2.97	2.31
TPS62221DDCT	296-15794-2-ND	1.5V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	548.75/250		
TPS62221EVM-014	296-18980-ND	Evaluation Module for TPS62221-014	—	62.78	—	—
TPS62222DDCT	296-15795-1-ND	1.8V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	3.71	2.97	2.31
TPS62222DDCT	296-15795-2-ND	1.8V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	548.75/250		
TPS62223DDCR	296-17025-1-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23	3.38	2.70	2.10
TPS62223DDCR	296-17025-2-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23	5670.00/3,000		
TPS62223DDCT	296-17104-1-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23	3.71	2.97	2.31
TPS62223DDCT	296-17104-2-ND	400mA/1.25MHz, High Efficiency, Step-Down Converter	TSOT-23	548.75/250		
TPS62224DDCT	296-15796-1-ND	1.6V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	3.71	2.97	2.31
TPS62224DDCT	296-15796-2-ND	1.6V, 400mA, High Efficiency Step-Down Converter	TSOT-23-5	548.75/250		
TPS62227YZGT	296-19611-1-ND	400mA, 1.25MHz High Eff. Step-Down Converter ***NEW!***	TSOT-23-5	3.71	2.97	2.31
TPS62227YZGT	296-19611-2-ND	400mA, 1.25MHz High Eff. Step-Down Converter ***NEW!***	TSOT-23-5	548.75/250		
TPS62228DDCT	296-17453-1-ND	1.875V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5	3.71	2.97	2.31
TPS62228DDCT	296-17453-2-ND	1.875V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5	548.75/250		
TPS62229DDCT	296-17454-1-ND	1.7V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5	3.71	2.97	2.31
TPS62229DDCT	296-17454-2-ND	1.7V, 400mA, 1.25MHz Step-Down Converter	TSOT-23-5	548.75/250		
TPS62300EVM-085	296-18981-ND	Evaluation Module for TPS62300-085	—	62.78	—	—
TPS62300YZDR	296-18280-1-ND	500mA, 3MHz Sync. Step-Down Converter	8-CSP	4.39	3.51	2.73
TPS62300YZDR	296-18280-2-ND	500mA, 3MHz Sync. Step-Down Converter	8-CSP	7371.00/3,000		
TPS62301DRCR	296-17990-1-ND	500mA, 3MHz Sync. Step-Down Converter	10-SON	4.16	3.33	2.59
TPS62301DRCR	296-17990-2-ND	500mA, 3MHz Sync. Step-Down Converter	10-SON	6993.00/3,000		
TPS62301YZDR	296-17290-1-ND	500mA, 3MHz Sync. Step-Down Converter	8-CSP	4.39	3.51	2.73
TPS62301YZDR	296-17290-2-ND	500mA, 3MHz Sync. Step-Down Converter	8-CSP	7371.00/3,000		
TPS62302DRCR	296-18982-1-ND	1.6V, Sync. Step-Down Converter	10-QFN	4.16	3.33	2.59
TPS62302DRCR	296-18982-2-ND	1.6V, Sync. Step-Down Converter	10-QFN	6993.00/3,000		
TPS62302YZDR	296-17292-1-ND	1.6V, Sync. Step-Down Converter	8-CSP	4.39	3.51	2.73
TPS62302YZDR	296-17292-2-ND	1.6V, Sync. Step-Down Converter	8-CSP	7371.00/3,000		
TPS62303DRCR	296-18983-1-ND	1.8V, Sync. Step-Down Converter	10-QFN	4.16	3.33	2.59
TPS62303DRCR	296-18983-2-ND	1.8V, Sync. Step-Down Converter	10-QFN	6993.00/3,000		
TPS62303YZDT	296-17291-1-ND	1.8V, Sync. Step-Down Converter	8-CSP	4.84	3.87	3.01
TPS62303YZDT	296-17291-2-ND	1.8V, Sync. Step-Down Converter	8-CSP	715.00/250		
TPS62304DRCR	296-19297-1-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	10-QFN	4.16	3.33	2.59
TPS62304DRCR	296-19297-2-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	10-QFN	6993.00/3,000		
TPS62304YZDR	296-19298-1-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	8-CSP	4.39	3.51	2.73

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS62304YZDR	296-19298-2-ND	1.2V, 500mA, 3MHz Sync. Step-Down Converter	8-CSP	7371.00/3,000		
TPS62305DRCR	296-18984-1-ND	1.875V, Sync. StepDown Converter	10-QFN	4.16	3.33	2.59
TPS62305DRCR	296-18984-2-ND	1.875V, Sync. Step-Down Converter	10-QFN	6993.00/3,000		
TPS62305YZDR	296-18250-1-ND	1.875V, 500mA, 3MHz Sync. Step-Down Converter	8-CSP	4.39	3.51	2.73
TPS62305YZDR	296-18250-2-ND	1.875V, 500mA, 3MHz Sync. Step-Down Converter	8-CSP	7371.00/3,000		
TPS62311YZDR	296-18251-1-ND	1.5V, 500mA, 3MHz Sync. Step-Down Converter	8-CSP	4.39	3.51	2.73
TPS62311YZDR	296-18251-2-ND	1.5V, 500mA, 3MHz Sync. Step-Down Converter	8-CSP	7371.00/3,000		
TPS62313YZDR	296-18304-1-ND	1.8V, 500mA, 3MHz Sync. Step-Down Converter	8-CSP	4.39	3.51	2.73
TPS62313YZDR	296-18304-2-ND	1.8V, 500mA, 3MHz Sync. Step-Down Converter	8-CSP	7371.00/3,000		
TPS62320DRCR	296-18985-1-ND	Adj., Sync. Step-Down Converter	10-QFN	4.16	3.33	2.59
TPS62320DRCR	296-18985-2-ND	Adj., Sync. Step-Down Converter	10-QFN	6993.00/3,000		
TPS62320YEDT	296-17293-1-ND	Adj. Sync. Step-Down Converter	8-CSP	4.84	3.87	3.01
TPS62320YEDT	296-17293-2-ND	Adj. Sync. Step-Down Converter	8-CSP	715.00/250		
TPS62320YZDT	296-17294-1-ND	Adj. Sync. Step-Down Converter	8-CSP	4.84	3.87	3.01
TPS62320YZDT	296-17294-2-ND	Adj. Sync. Step-Down Converter	8-CSP	715.00/250		
TPS62321DRCR	296-18986-1-ND	1.5V, Sync. Step-Down Converter	10-QFN	4.16	3.33	2.59
TPS62321DRCR	296-18986-2-ND	1.5V, Sync. Step-Down Converter	10-QFN	6993.00/3,000		
TPS62321YEDT	296-17295-1-ND	1.5V, Sync. Step-Down Converter	8-CSP	4.84	3.87	3.01
TPS62321YEDT	296-17295-2-ND	1.5V, Sync. Step-Down Converter	8-CSP	715.00/250		
TPS62321YZDT	296-17296-1-ND	1.5V, Sync. Step-Down Converter	8-CSP	4.84	3.87	3.01
TPS62321YZDT	296-17296-2-ND	1.5V, Sync. Step-Down Converter	8-CSP	715.00/250		
TPS63700DRCT	296-18729-1-ND	DC-DC Inverter	10-SON	5.20	4.16	3.51
TPS63700DRCT	296-18729-2-ND	DC-DC Inverter	10-SON	845.00/250		
TPS63700EVM139	296-18730-ND	Evaluation Module For TPS63700	—	62.78	—	—
TPS64200DBVT	296-15704-1-ND	Adj., Step-Down Controller	SOT-23-6	1.50	1.20	.90
TPS64200DBVT	296-15704-2-ND	Adj., Step-Down Controller	SOT-23-6	210.00/250		
TPS64201DBVT	296-15705-1-ND	Adj., Step-Down Controller	SOT-23-6	1.50	1.20	.90
TPS64201DBVT	296-15705-2-ND	Adj., Step-Down Controller	SOT-23-6	210.00/250		
TPS64202DBVT	296-15706-1-ND	Adj., Step-Down Controller	SOT-23-6	1.50	1.20	.90
TPS64202DBVT	296-15706-2-ND	Adj., Step-Down Controller	SOT-23-6	210.00/250		
TPS64202EVM-023	296-18987-ND	Evaluation Module for TPS64202-023	—	62.78	—	—
TPS64203DBVT	296-15707-1-ND	Adj., Step-Down Controller	SOT-23-6	1.50	1.20	.90
TPS64203DBVT	296-15707-2-ND	Adj., Step-Down Controller	SOT-23-6	210.00/250		
TPS65100EVM-030	296-18990-ND	Evaluation Module for TPS65100-030	—	62.78	—	—
TPS65100PWPR	296-17082-1-ND	Triple Output LCD Supply	24-TSSOP	3.94	3.15	2.45
TPS65100PWPR	296-17082-2-ND	Triple Output LCD Supply	24-TSSOP	4462.00/2,000		
TPS65100RGER	296-18991-1-ND	Triple Output LCD Supply	24-QFN	3.94	3.15	2.45
TPS65100RGER	296-18991-2-ND	Triple Output LCD Supply	24-QFN	6615.00/3,000		
TPS65105PWPR	296-18992-1-ND	Triple Out LCD Supply with Linear Reg. and VCOM Buffer	24-HTSSOP	3.94	3.15	2.45
TPS65105PWPR	296-18992-2-ND	Triple Out LCD Supply with Linear Reg. and VCOM Buffer	24-HTSSOP	4462.00/2,000		
TPS65105RGER	296-18993-1-ND	Triple Out LCD Supply with Linear Reg. and VCOM Buffer	24-QFN	3.94	3.15	2.45
TPS65105RGER	296-18993-2-ND	Triple Out LCD Supply with Linear Reg. and VCOM Buffer	24-QFN	6615.00/3,000		
TPS65110RGE	296-15797-ND	Triple Charge Pump LTPS-LCD Bias Power Supply	24-QFN	2.93	2.34	1.82
TPS65110RGER	296-15841-1-ND	Triple Charge Pump LTPS-LCD Bias Power Supply	24-QFN	2.93	2.34	1.82
TPS65110RGER	296-15841-2-ND	Triple Charge Pump LTPS-LCD Bias Power Supply	24-QFN	4914.00/3,000		
TPS65120EVM-076	296-18994-ND	Evaluation Module for TPS65120-076	—	62.78	—	—
TPS65120RGTR	296-17181-1-ND	Single Inductor, Quad Output, TFT Display	16-QFN	3.04	2.43	1.89
TPS65120RGTR	296-17181-2-ND	Single Inductor, Quad Output, TFT Display	16-QFN	5103.00/3,000		
TPS65121RGTR	296-17182-1-ND	Single Inductor, Quad Output, TFT Display	16-QFN	3.04	2.43	1.89
TPS65121RGTR	296-17182-2-ND	Single Inductor, Quad Output, TFT Display	16-QFN	5103.00/3,000		
TPS65123RGTR	296-17183-1-ND	Single Inductor, Triple Output, TFT Display	16-QFN	3.04	2.43	1.89
TPS65123RGTR	296-17183-2-ND	Single Inductor, Triple Output, TFT Display	16-QFN	5103.00/3,000		
TPS65124EVM-076	296-18995-ND	Evaluation Module for TPS65124-076	—	62.78	—	—
TPS65124RGTR	296-17184-1-ND	Single Inductor, Triple Output, TFT Display	16-QFN	3.04	2.43	1.89
TPS65124RGTR	296-17184-2-ND	Single Inductor, Triple Output, TFT Display	16-QFN	5103.00/3,000		
TPS65130EVM-063	296-18996-ND	Evaluation Module for TPS65130-063	—	62.78	—	—
TPS65130RGER	296-17080-1-ND	Positive/Negative Output DC/DC Converter	24-QFN	5.18	4.14	3.22
TPS65130RGER	296-17080-2-ND	Positive/Negative Output DC/DC Converter	24-QFN	8694.00/3,000		
TPS65131EVM-063	296-17872-ND	Evaluation Module for TPS65131-63	—	62.78	—	—
TPS65131RGET	296-17349-1-ND	Dual Output DC/DC Converter	24-QFN	6.60	5.28	4.46
TPS65131RGET	296-17349-2-ND	Dual Output DC/DC Converter	24-QFN	1072.50/250		
TPS65140EVM-031	296-18997-ND	Evaluation Module for TPS65140-031	—	62.78	—	—
TPS65140PWPR	296-18998-1-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-HTSSOP	3.60	2.88	2.24
TPS65140PWPR	296-18998-2-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-HTSSOP	4080.00/2,000		
TPS65140RGER	296-18999-1-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-QFN	3.60	2.88	2.24
TPS65140RGER	296-18999-2-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-QFN	6048.00/3,000		
TPS65145PWPR	296-19000-1-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-HTSSOP	3.60	2.88	2.24
TPS65145PWPR	296-19000-2-ND	Triple Out LCD Supply with Linear Reg. and Power Good	24-HTSSOP	4080.00/2,000		
UCC3941DTR-3	296-2280-1-ND	1V to 3V Sync. Boost Converter	8-SOIC	3.38	2.70	2.10
UCC3941DTR-3	296-2280-2-ND	1V to 3V Sync. Boost Converter	8-SOIC	4725.00/2,500		
UCC3941D-5	296-2281-5-ND	1V to 5V Sync. Boost Converter	8-SOIC	4.05	3.24	2.52
UCC3941DTR-5	296-2281-1-ND	1V to 5V Sync. Boost Converter	8-SOIC	3.38	2.70	2.10
UCC3941DTR-5	296-2281-2-ND	1V to 5V Sync. Boost Converter	8-SOIC	4725.00/2,500		
UCC3941N-5	296-3229-5-ND	5V Synchronous Boost Converter	8-Dip	4.05	3.24	2.52
UCC39412D	296-2278-5-ND	Low Power Sync. Boost Converter	8-SOIC	3.38	2.70	2.10

NEW! Isolators NEW!

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ISO721D	296-19382-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	3.71	2.97	2.31
ISO721MD	296-19381-ND	3.3V/5V High Speed Digital Isolator	8-SOIC	3.71	2.97	2.31

Microprocessor Supervisory Circuit Drivers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL7700CPWR	296-13050-1-ND	Adj., Supply Voltage Supervisor	8-TSSOP	2.81	2.25	1.75
TL7700CPWR	296-13050-2-ND	Adj., Supply Voltage Supervisor	8-TSSOP	3188.00/2,000		
TL7702ACD	296-1295-5-ND	2.53V Supply Monitor	8-SOIC	.56	.42	.32
TL7702ACDR	296-1295-1-ND	2.53V Supply Monitor	8-SOIC	.56	.42	.32
TL7702ACDR	296-1295-2-ND	2.53V Supply Monitor	8-SOIC	455.00/2,500		
TL7702ACP	296-3232-5-ND	2.53V Supply Monitor	8-Dip	.56	.42	.32
TL7702AID	296-3233-5-ND	2.53V Supply Monitor	8-SOIC	.64	.48	.36
TL7702AIDR	296-15017-1-ND	Supply Voltage Supervisor	8-SOIC	.64	.48	.36
TL7702AIDR	296-15017-2-ND	Supply Voltage Supervisor	8-SOIC	520.00/2,500		
TL7702AIP	296-3234-5-ND	2.53V Supply Monitor	8-Dip	.64	.48	.36
TL7702BCD	296-1296-5-ND	2.53V Supply Monitor	8-SOIC	.60	.45	.34
TL7702BCDR	296-1296-1-ND	2.53V Supply Monitor	8-SOIC	.60	.45	.34
TL7702BCDR	296-1296-2-ND	2.53V Supply Monitor	8-SOIC	487.50/2,500		
TL7702BCP	296-3236-5-ND	2.53V Supply Monitor	8-Dip	.60	.45	.34
TL7702BIDR	296-15018-1-ND	2.53V Supply Monitor	8-SOIC	.72	.54	.41
TL7702BIDR	296-15018-2-ND	2.53V Supply Monitor	8-SOIC	585.00/2,500		
TL7702BIP	296-3238-5-ND	2.53V Supply Monitor	8-Dip	.72	.54	.41
TL7705ACD	296-1297-5-ND	4.55V Supply Monitor	8-SOIC	.56	.42	.32
TL7705ACDR	296-1297-1-ND	4.55V Supply Monitor	8-SOIC	.56	.42	.32
TL7705ACDR	296-1297-2-ND	4.55V Supply Monitor	8-SOIC	455.00/2,500		
TL7705ACP	296-1801-5-ND	4.55V Supply Monitor	8-Dip	.56	.42	.32
TL7705ACPSR	296-3239-1-ND	4.55V Supply Monitor	8-SOIC	.56	.42	.32
TL7705ACPSR	296-3239-2-ND	4.55V Supply Monitor	8-SOIC	372.00/2,000		
TL7705AID	296-3240-5-ND	4.55V Supply Monitor	8-SOIC	.64	.48	.36
TL7705AIDR	296-15019-1-ND	4.55V Supply Monitor	8-SOIC	.64	.48	.36
TL7705AIDR	296-15019-2-ND	4.55V Supply Monitor	8-SOIC	520.00/2,500		
TL7705AIP	296-3241-5-ND	4.55V Supply Monitor	8-Dip	.64	.48	.36
TL7705BCD	296-1298-5-ND	4.55V Supply Monitor	8-SOIC	.60	.45	.34
TL7705BCDR	296-1298-1-ND	4.55V Supply Monitor	8-SOIC	.60	.45	.34
TL7705BCDR	296-1298-2-ND	4.55V Supply Monitor	8-SOIC	487.50/2,500		
TL7705BCP	296-3242-5-ND	4.55V Supply Monitor	8-Dip	.60	.45	.34
TL7705BID	296-3243-5-ND	4.55V Supply Monitor	8-SOIC	.72	.54	.41
TL7705BIDR	296-15020-1-ND	4.55V Supply Monitor	8-SOIC	.72	.54	.41
TL7705BIDR	296-15020-2-ND	4.55V Supply Monitor	8-SOIC	585.00/2,500		
TL7705BIP	296-3244-5-ND	4.55V Supply Monitor	8-Dip	.72	.54	.41
TL7705BQD	296-3245-5-ND	4.55V Supply Monitor	8-SOIC	1.88	1.50	1.13
TL7709ACD	296-3247-5-ND	7.6V Supply Monitor	8-SOIC	1.41	1.18	.94
TL7709ACP	296-3248-5-ND	7.6V Supply Monitor	8-Dip	1.41	1.18	.94
TL7712ACD	296-3249-5-ND	10.8V Supply Monitor	8-SOIC	.84	.70	.56
TL7712ACDR	296-15021-1-ND	10.8V Supply Monitor	8-SOIC	.84	.70	.56
TL7712ACDR	296-15021-2-ND	10.8V Supply Monitor	8-SOIC	910.00/2,500		
TL7712ACP	296-3250-5-ND	10.8V Supply Monitor	8-Dip	.84	.70	.56
TL7715ACD	296-3251-5-ND	Supply Voltage Supervisor	8-SOP	1.41	1.18	.94
TL7715ACP	296-3252-5-ND	Supply Voltage Supervisor	8-Dip	1.41	1.18	.94
TL7726CD	296-3253-5-ND	Hex Clamping Circuit	8-SOIC	1.63	1.30	.98
TL7726CDR	296-15022-1-ND	Hex Clamping Circuit	8-SOIC	1.63	1.30	.98
TL7726CDR	296-15022-2-ND	Hex Clamping Circuit	8-SOIC	2080.00/2,500		
TL7726CP	296-3254-5-ND	Hex Clamping Circuit	8-Dip	1.63	1.30	.98
TL7726ID	296-3255-5-ND	Hex Clamping Circuit	8-SOIC	1.75	1.40	1.05
TL7726IP	296-3256-5-ND	Hex Clamping Circuit	8-Dip	1.75	1.40	1.05
TL7733BCDR	296-12952-1-ND	Supply Voltage Supervisor	8-SOIC	.60	.45	.34
TL7733BCDR	296-12952-2-ND	Supply Voltage Supervisor	8-SOIC	487.50/2,500		
TL7733BCP	296-12953-5-ND	Supply Voltage Supervisor	8-Dip	.60	.45	.34
TL7733BIDR	296-13356-1-ND	Supply Voltage Supervisor	8-SOIC	.72	.54	.41
TL7733BIDR	296-13356-2-ND	Supply Voltage Supervisor	8-SOIC	585.00/2,500		
TL7733BIP	296-13357-5-ND	Supply Voltage Supervisor	8-Dip	.72	.54	.41
TL7757CD	296-3257-5-ND	4.55V Supply Monitor/Voltage Detector	8-SOP	.72	.54	.41
TL7757CDR	296-15023-1-ND	4.55V Supply Monitor/Volt. Detector	8-SOIC	.72	.54	.41
TL7757CDR	296-15023-2-ND	4.55V Supply Monitor/Volt. Detector	8-SOIC	585.00/2,500		
TL7757CLP	296-1992-ND	4.55V Supply Monitor/V. Detector	TO-226AA	.72	.54	.41
TL7757CLPR	296-1992-1-ND	4.55V Supply Monitor/V. Detector	TO-226AA	.72	.54	.41
TL7757CLPR	296-1992-2-ND	4.55V Supply Monitor/V. Detector	TO-226AA	478.00/2,000		
TL7757CPK	296-3259-1-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	.80	.60	.45
TL7757CPK	296-3259-2-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	266.00/1,000		
TL7757ID	296-3260-5-ND	4.55V Supply Monitor/Volt. Detector	8-SOIC	.80	.60	.45
TL7757ILP	296-3261-5-ND	4.55V Supply Monitor/Volt. Detector	TO-226AA	.80	.60	.45
TL7757IPK	296-3262-1-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	.88	.66	.50
TL7757IPK	296-3262-2-ND	4.55V Supply Monitor/Volt. Detector	SOT-89	293.00/1,000		
TL7759CD	296-3263-5-ND	4.55V Supply Monitor	8-SOIC	1.47	1.23	.98
TL7759CP	296-3264-5-ND	4.55V Supply Monitor	8-Dip	1.47	1.23	.98
TL7759CPWR	296-1299-1-ND	4.55V Supply Monitor	8-TSSOP	1.47	1.23	.98
TL7759CPWR	296-1299-2-ND	4.55V Supply Monitor	8-TSSOP	1304.00/2,000		
TL7770-5CDW	296-3265-5-ND	4.55V Dual Supply Monitor	16-SOIC	2.15	1.72	1.29
TL7770-5CDWR	296-15024-1-ND	4.55V Dual Supply Monitor	16-SOIC	2.15	1.72	1.29
TL7770-5CDWR	296-15024-2-ND	4.55V Dual Supply Monitor	16-SOIC	2236.00/2,000		
TL7770-5CN	296-3266-5-ND	4.55V Dual Supply Monitor	16-Dip	2.15	1.72	1.29
TL7770-5IDW	296-3267-5-ND	4.55V Dual Supply Monitor	16-SOIC	2.25	1.80	1.40
TL7770-12CDWR	296-12954-1-ND	Dual Power Supply Supervisor	16-SOIC	2.70	2.16	1.68
TL7770-12CDWR	296-12954-2-ND	Dual Power Supply Supervisor	16-SOIC	3060.00/2,000		
TLC7701ID	296-3268-5-ND	1.1V Supply Monitor	8-SOIC	1.55	1.24	.93
TLC7701IP	296-2608-5-ND	1.1V Supply Monitor	8-Dip	1.55	1.24	.93
TLC7701IPW	296-2609-5-ND	1.1V Supply Monitor	8-TSSOP	1.55	1.24	.93
TLC7701IPWR	296-2609-1-ND	1.1V Supply Monitor	8-TSSOP	1.55	1.24	.93
TLC7701IPWR	296-2609-2-ND	1.1V Supply Monitor	8-TSSOP	1612.00/2,000		
TLC7701QD	296-3270-5-ND	1.1V Supply Monitor	8-SOIC	1.68	1.34	1.01
TLC7701QP	296-3271-5-ND	1.1V Supply Monitor	8-Dip	1.68	1.34	1.01
TLC7703ID	296-3272-5-ND	2.63V Micropower Supply Voltage Supervisor	8-SOIC	2.03	1.62	1.22
TLC7703IP	296-3273-5-ND	2.63V Micropower Supply Voltage Supervisor	8-Dip	2.03	1.62	1.22
TLC7703IPWR	296-3274-1-ND	2.63V Micropower Supply Voltage Supervisor	8-TSSOP	2.03	1.62	1.22
TLC7703IPWR	296-3274-2-ND	2.63V Micropower Supply Voltage Supervisor	8-TSSOP	2106.00/2,000		
TLC7703QD	296-2610-5-ND	2.63V Micropower Supply Voltage Supervisor	8-SOIC	2.15	1.72	1.29

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLC7703QP	296-13359-5-ND	2.63V Micropower Supply Voltage Supervisor	8-Dip	2.15	1.72	1.29
TLC7705ID	296-1872-5-ND	4.55V Supply Monitor	8-SOIC	1.55	1.24	.93
TLC7705IP	296-3276-5-ND	4.55V Supply Monitor	8-Dip	1.55	1.24	.93
TLC7705IPWR	296-3277-1-ND	4.55V Supply Monitor	8-TSSOP	1.55	1.24	.93
TLC7705IPWR	296-3277-2-ND	4.55V Supply Monitor	8-TSSOP	1612.00/2,000		
TLC7705QD	296-3278-5-ND	4.55V Supply Monitor	8-SOIC	1.68	1.34	1.01
TLC7725ID	296-3280-5-ND	2.25V Micropower Supply Voltage Supervisor	8-SOIC	2.03	1.62	1.22
TLC7725QD	296-3281-5-ND	2.25V Micropower Supply Voltage Supervisor	8-SOIC	2.15	1.72	1.29
TLC7725QP	296-13360-5-ND	2.25V Micropower Supply Voltage Supervisor	8-Dip	2.15	1.72	1.29
TLC7725QPWR	296-3283-1-ND	2.25V Micropower Supply Voltage Supervisor	8-TSSOP	2.15	1.72	1.29
TLC7725QPWR	296-3283-2-ND	2.25V Micropower Supply Voltage Supervisor	8-TSSOP	2236.00/2,000		
TLC7725IP	296-2611-5-ND	2.25V Micropower Supply Voltage Supervisor	8-Dip	2.03	1.62	1.22
TLC7733ID	296-2612-5-ND	2.93V Micropower Supply Voltage Monitor	8-SOIC	2.03	1.62	1.22
TLC7733IP	296-3284-5-ND	2.93V Micropower Supply Voltage Monitor	8-Dip	2.03	1.62	1.22
TLC7733IPWR	296-3285-1-ND	2.93V Micropower Supply Voltage Monitor	8-TSSOP	2.03	1.62	1.22
TLC7733IPWR	296-3285-2-ND	2.93V Micropower Supply Voltage Monitor	8-TSSOP	2106.00/2,000		
TLC7733QD	296-3286-5-ND	2.93V Micropower Supply Voltage Monitor	8-SOIC	2.15	1.72	1.29
TLC7733QP	296-3287-5-ND	2.93V Micropower Supply Voltage Monitor	8-Dip	2.15	1.72	1.29
TLC7733QPWR	296-3288-1-ND	2.93V Micropower Supply Voltage Monitor	8-TSSOP	2.15	1.72	1.29
TLC7733QPWR	296-3288-2-ND	2.93V Micropower Supply Voltage Monitor	8-TSSOP	2236.00/2,000		
TLC7733QPWREP	296-18143-1-ND	2.93V Micropower Volt. Supervisor	8-TSSOP	4.75	3.80	2.96
TLC7733QPWREP	296-18143-2-ND	2.93V Micropower Volt. Supervisor	8-TSSOP	5380.00/2,000		
TPS3103E12DBVR	296-13393-1-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3103E12DBVR	296-13393-2-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3103E15DBVR	296-13394-1-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3103E15DBVR	296-13394-2-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3103H20DBVR	296-13395-1-ND	1.84V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3103H20DBVR	296-13395-2-ND	1.84V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3103K33DBVR	296-13396-1-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3103K33DBVR	296-13396-2-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3106E09DBVT	296-13397-1-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.40
TPS3106E09DBVT	296-13397-2-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	332.50/250		
TPS3106E16DBVR	296-13398-1-ND	1.52V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3106E16DBVR	296-13398-2-ND	1.52V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3106K33DBVR	296-13399-1-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.35
TPS3106K33DBVR	296-13399-2-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3456.00/3,000		
TPS3110E09DBVR	296-13400-1-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.40
TPS3110E09DBVR	296-13400-2-ND	0.86V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3780.00/3,000		
TPS3110E12DBVR	296-13401-1-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.40
TPS3110E12DBVR	296-13401-2-ND	1.14V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3780.00/3,000		
TPS3110E15DBVR	296-13402-1-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.25	1.80	1.40
TPS3110E15DBVR	296-13402-2-ND	1.43V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	3780.00/3,000		
TPS3110K33DBVT	296-13403-1-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	2.48	1.98	1.54
TPS3110K33DBVT	296-13403-2-ND	2.94V, Ultralow Supply-Current/Supply-Voltage Supervisory Circuit	SOT-23-6	365.75/250		
TPS3123G15DBVR	296-10890-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3123G15DBVR	296-10890-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		
TPS3123G15DBVT	296-3289-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3123G15DBVT	296-3289-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3123J12DBVR	296-10891-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3123J12DBVR	296-10891-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		
TPS3123J12DBVT	296-3290-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3123J12DBVT	296-3290-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3123J18DBVR	296-10892-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3123J18DBVR	296-10892-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		
TPS3123J18DBVT	296-3291-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3123J18DBVT	296-3291-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3124G15DBVR	296-10893-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3124G15DBVR	296-10893-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		
TPS3124G15DBVT	296-3292-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3124G15DBVT	296-3292-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3124J12DBVR	296-10894-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3124J12DBVR	296-10894-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		
TPS3124J12DBVT	296-3293-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3124J12DBVT	296-3293-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3124J18DBVR	296-10895-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3124J18DBVR	296-10895-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	3264.00/3,000		
TPS3124J18DBVT	296-3294-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3124J18DBVT	296-3294-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3125G15DBVR	296-10896-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.90	1.52	1.14
TPS3125G15DBVR	296-10896-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2918.40/3,000		
TPS3125G15DBVT	296-2613-1-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.03	1.62	1.22
TPS3125G15DBVT	296-2613-2-ND	1.40V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	283.50/250		
TPS3125J12DBVR	296-10897-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.90	1.52	1.14
TPS3125J12DBVR	296-10897-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2918.40/3,000		
TPS3125J12DBVT	296-2614-1-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.03	1.62	1.22
TPS3125J12DBVT	296-2614-2-ND	1.08V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	283.50/250		
TPS3125J18DBVR	296-10898-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.90	1.52	1.14
TPS3125J18DBVR	296-10898-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2918.40/3,000		
TPS3125J18DBVT	296-2615-1-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.03	1.62	1.22
TPS3125J18DBVT	296-2615-2-ND	1.62V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	283.50/250		
TPS3125L30DBVR	296-10899-1-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	1.90	1.52	1.14
TPS3125L30DBVR	296-10899-2-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2919.00/3,000		
TPS3125L30DBVT	296-2616-1-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.03	1.62	1.22
TPS3125L30DBVT	296-2616-2-ND	2.64V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	283.50/250		
TPS3126E12DBVT	296-10900-1-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3126E12DBVT	296-10900-2-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	297.50/250		
TPS3126E15DBVT	296-10901-1-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3126E15DBVT	296-10901-2-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	297.50/250		
TPS3126E18DBVT	296-10902-1-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.13	1.70	1.28
TPS3126E18DBVT	296-10902-2-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	297.50/250		
TPS3128E12DBVT	296-10903-1-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3128E12DBVT	296-10903-2-ND	1.14V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3128E15DBVT	296-10904-1-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3128E15DBVT	296-10904-2-ND	1.43V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3128E18DBVT	296-10905-1-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	2.38	1.90	1.43
TPS3128E18DBVT	296-10905-2-ND	1.71V, Ultralow Voltage Processor Supervisory Circuit	SOT-23-5	332.50/250		
TPS3305-18D	296-2617-5-ND	Dual 2.93/1.68 Volt Monitor	8-SOIC	2.25	1.80	1.40
TPS3305-18DGNR	296-3299-1-ND	Dual 3.3/1.8 Volt Monitor	8-MSOP	2.25	1.80	1.40
TPS3305-18DGNR	296-3299-2-ND	Dual 3.3/1.8 Volt Monitor	8-MSOP	3150.00/2,500		
TPS3305-25D	296-2618-5-ND	Dual 2.93/2.25 Volt Monitor	8-SOIC	2.25	1.80	1.40
TPS3305-25DGNR	296-3300-1-ND	Dual 3.3/2.5 Volt Monitor	8-MSOP	2.25	1.80	1.40
TPS3305-25DGNR	296-3300-2-ND	Dual 3.3/2.5 Volt Monitor	8-MSOP	3150.00/2,500		
TPS3305-33D	296-2619-5-ND	Dual 4.55/2.93 Volt Monitor	8-SOIC	2.25	1.80	1.40
TPS3305-33DGNR	296-3301-1-ND	Dual 5/3.3 Volt Monitor	8-MSOP	2.25	1.80	1.40
TPS3305-33DGNR	296-3301-2-ND	Dual 5/3.3 Volt Monitor	8-MSOP	3150.00/2,500		
TPS3306-15D	296-3302-5-ND	Dual 3.3/1.5 Volt Monitor	8-SOIC	2.36	1.89	1.47
TPS3306-15DGK	296-3303-5-ND	Dual 3.3/1.5 Volt Monitor	8-SOP	2.36	1.89	1.47
TPS3306-18D	296-3304-5-ND	Dual 3.3/1.8 Volt Monitor	8-SOIC	2.36	1.89	1.47
TPS3306-18DGK	296-3305-5-ND	Dual 3.3/1.8 Volt Monitor	8-SOP	2.36	1.89	1.47
TPS3306-18QDRQ1	296-17848-1-ND	Dual 3.3/1.8 Volt Monitor	8-SOIC	2.81	2.25	1.75
TPS3306-18QDRQ1	296-17848-2-ND	Dual 3.3/1.8 Volt Monitor	8-SOIC	3937.50/2,500		
TPS3306-20D	296-3306-5-ND	Dual 3.3/2 Volt Monitor	8-SOIC	2.36	1.89	1.47
TPS3306-20DGK	296-3307-5-ND	Dual 3.3/2 Volt Monitor	8-SOP	2.36	1.89	1.47
TPS3306-25D	296-3308-5-ND	Dual 3.3/2.5 Volt Monitor	8-SOIC	2.36	1.89	1.47
TPS3306-25DGK	296-3309-5-ND	Dual 3.3/2.5 Volt Monitor	8-SOP	2.36	1.89	1.47
TPS3306-33D	296-3310-5-ND	Dual 5/3.3 Volt Monitor	8-SOIC	2.36	1.89	1.47

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS3306-33DGK	296-3311-5-ND	Dual 5/3.3 Volt Monitor	8-SOP	2.36	1.89	1.47
TPS3306-33QDRQ1	296-18948-5-ND	Dual Processor Supervisory Circuit with Power Fail	8-SOIC	2.81	2.25	1.75
TPS3307-18D	296-2620-5-ND	Triple 2.93/1.68/1.25 Volt Monitor	8-SOIC	2.36	1.89	1.47
TPS3307-18DGNR	296-3312-1-ND	Triple 3.3/1.8/Adj. Volt Monitor	8-MSOP	2.36	1.89	1.47
TPS3307-18DGNR	296-3312-2-ND	Triple 3.3/1.8/Adj. Volt Monitor	8-MSOP	3307.50/2,500		
TPS3307-18QDRQ1	296-15641-1-ND	Triple 3.3/1.8/Adj. Volt Monitor	8-SOIC	2.81	2.25	1.75
TPS3307-18QDRQ1	296-15641-2-ND	Triple 3.3/1.8/Adj. Volt Monitor	8-SOIC	3937.50/2,500		
TPS3307-25D	296-2621-5-ND	Triple 2.93/2.25/1.25 Volt Monitor	8-SOIC	2.36	1.89	1.47
TPS3307-25DGNR	296-3313-1-ND	Triple 3.3/2.5/Adj. Volt Monitor	8-MSOP	2.36	1.89	1.47
TPS3307-25DGNR	296-3313-2-ND	Triple 3.3/2.5/Adj. Volt Monitor	8-MSOP	3307.50/2,500		
TPS3307-33D	296-3314-5-ND	Triple 5/3.3/Adj. Volt Monitor	8-SOIC	2.36	1.89	1.47
TPS3307-33DR	296-3314-1-ND	Triple 5/3.3/Adj. Volt Monitor	8-SOIC	2.36	1.89	1.47
TPS3307-33DR	296-3314-2-ND	Triple 5/3.3/Adj. Volt Monitor	8-SOIC	3307.50/2,500		
TPS3307-33DGN	296-3315-5-ND	Triple 5/3.3/Adj. Volt Monitor	8-MSOP	2.36	1.89	1.47
TPS3307-33DGNR	296-3315-1-ND	Triple 5/3.3/Adj. Volt Monitor	8-MSOP	2.36	1.89	1.47
TPS3307-33DGNR	296-3315-2-ND	Triple 5/3.3/Adj. Volt Monitor	8-MSOP	3307.50/2,500		
TPS3510DR	296-3317-1-ND	3.5V Power Supply Monitor	8-SOIC	1.38	1.10	.83
TPS3510DR	296-3317-2-ND	3.5V Power Supply Monitor	8-SOIC	1462.50/2,500		
TPS3510P	296-3318-5-ND	3.5V Power Supply Monitor	8-Dip	1.35	1.13	.90
TPS3511D	296-15041-5-ND	PC Power Supply Supervisor	8-SOIC	1.35	1.13	.90
TPS3513D	296-13404-5-ND	PC Power Supply Supervisor	14-SOIC	1.75	1.40	1.05
TPS3513N	296-17024-ND	PC Power Supply Supervisor	14-Dip	1.75	1.40	1.05
TPS3514D	296-13513-5-ND	PC Power Supply Supervisor	14-SOIC	1.75	1.40	1.05
TPS3600D20PW	296-10906-5-ND	2V Battery Backup Supervisor for LP Processors	14-TSSOP	4.50	3.60	2.80
TPS3600D33PW	296-12237-5-ND	3.3V Battery Backup Supervisor for LP Processors	14-TSSOP	4.50	3.60	2.80
TPS3600D33PWR	296-10907-1-ND	3.3V Battery Backup Supervisor for LP Processors	14-TSSOP	5.18	4.14	3.22
TPS3600D33PWR	296-10907-2-ND	3.3V Battery Backup Supervisor for LP Processors	14-TSSOP	5100.00/2,000		
TPS3600D50PW	296-12238-5-ND	5V Battery Backup Supervisor for LP Processors	14-TSSOP	4.50	3.60	2.80
TPS3606-33DGS	296-10909-5-ND	3.3V Battery Backup Supervisor for LP Processors	10-MSOP	3.26	2.61	2.03
TPS3610T50PW	296-10910-5-ND	5V Battery Backup Supervisor for RAM Retention	14-TSSOP	3.71	2.97	2.31
TPS3610U18PW	296-12239-5-ND	1.8V Battery Backup Supervisor for RAM Retention	14-TSSOP	3.71	2.97	2.31
TPS3613-01DGS	296-10912-5-ND	Adj. Battery Backup Supervisor for RAM Retention	10-MSOP	3.15	2.52	1.96
TPS3617-50DGK	296-10913-5-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	2.70	2.16	1.68
TPS3618-50DGKT	296-17574-1-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	3.26	2.61	2.03
TPS3618-50DGKT	296-17574-2-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	482.25/250		
TPS3619-33DGK	296-12141-5-ND	3.3V Battery Backup Supervisor for RAM Retention	8-MSOP	2.48	1.98	1.54
TPS3619-50DGK	296-12142-5-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	2.48	1.98	1.54
TPS3620-33DGKR	296-17452-1-ND	3.3V Backup Battery Supervisor for RAM Retention	8-MSOP	2.48	1.98	1.54
TPS3620-33DGKR	296-17452-2-ND	3.3V Backup Battery Supervisor for RAM Retention	8-MSOP	3465.00/2,500		
TPS3620-50DGKR	296-17575-1-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	2.48	1.98	1.54
TPS3620-50DGKR	296-17575-2-ND	5V Battery Backup Supervisor for RAM Retention	8-MSOP	3465.00/2,500		
TPS3705-30D	296-2622-5-ND	2.63V Supply Monitor	8-SOIC	1.68	1.34	1.01
TPS3705-30DGN	296-3316-5-ND	2.63V Supply Monitor	8-MSOP	1.68	1.34	1.01
TPS3705-33D	296-2623-5-ND	2.93V Supply Monitor	8-SOIC	1.68	1.34	1.01
TPS3705-33DGNR	296-3319-1-ND	2.93V Supply Monitor	8-MSOP	1.68	1.34	1.01
TPS3705-33DGNR	296-3319-2-ND	2.93V Supply Monitor	8-MSOP	2145.00/2,500		
TPS3705-50D	296-2624-5-ND	4.55V Supply Monitor	8-SOIC	1.68	1.34	1.01
TPS3705-50DGNR	296-3320-1-ND	4.55V Supply Monitor	8-MSOP	1.68	1.34	1.01
TPS3705-50DGNR	296-3320-2-ND	4.55V Supply Monitor	8-MSOP	2145.00/2,500		
TPS3707-25D	296-2625-5-ND	2.25V Supply Monitor	8-SOIC	1.58	1.26	.95
TPS3707-25DGNR	296-3321-1-ND	2.25V Supply Monitor	8-MSOP	1.58	1.26	.95
TPS3707-25DGNR	296-3321-2-ND	2.25V Supply Monitor	8-MSOP	2015.00/2,500		
TPS3707-30D	296-2626-5-ND	2.63V Supply Monitor	8-SOIC	1.58	1.26	.95
TPS3707-30DGN	296-3322-5-ND	2.63V Supply Monitor	8-MSOP	1.58	1.26	.95
TPS3707-33D	296-2627-5-ND	2.93V Supply Monitor	8-SOIC	1.58	1.26	.95
TPS3707-33DGN	296-3323-5-ND	2.93V Supply Monitor	8-MSOP	1.58	1.26	.95
TPS3707-50D	296-2628-5-ND	4.55V Supply Monitor	8-SOIC	1.58	1.26	.95
TPS3707-50DGNR	296-3324-1-ND	4.55V Supply Monitor	8-MSOP	1.58	1.26	.95
TPS3707-50DGNR	296-3324-2-ND	4.55V Supply Monitor	8-MSOP	2015.00/2,500		
TPS3800G27DCKR	296-12382-1-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1.47	1.23	.98
TPS3800G27DCKR	296-12382-2-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1560.00/3,000		
TPS3801-01DCKR	296-12383-1-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1.47	1.23	.98
TPS3801-01DCKR	296-12383-2-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1560.00/3,000		
TPS3801E18DCKR	296-12384-1-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1.47	1.23	.98
TPS3801E18DCKR	296-12384-2-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1560.00/3,000		
TPS3801I50DCKR	296-3325-1-ND	4.55V Supply Monitor	SOT-323-5	1.47	1.23	.98
TPS3801I50DCKR	296-3325-2-ND	4.55V Supply Monitor	SOT-323-5	1560.00/3,000		
TPS3801J25DCKR	296-3326-1-ND	2.25V Supply Monitor	SOT-323-5	1.47	1.23	.98
TPS3801J25DCKR	296-3326-2-ND	2.25V Supply Monitor	SOT-323-5	1560.00/3,000		
TPS3801K33DCKR	296-3327-1-ND	2.93V Supply Monitor	SOT-323-5	1.47	1.23	.98
TPS3801K33DCKR	296-3327-2-ND	2.93V Supply Monitor	SOT-323-5	1560.00/3,000		
TPS3801L30DCKR	296-3328-1-ND	2.64V Supply Monitor	SOT-323-5	1.47	1.23	.98
TPS3801L30DCKR	296-3328-2-ND	2.64V Supply Monitor	SOT-323-5	1560.00/3,000		
TPS3801T50DCKR	296-12385-1-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1.47	1.23	.98
TPS3801T50DCKR	296-12385-2-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1560.00/3,000		
TPS3802K33DCKR	296-12386-1-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1.47	1.23	.98
TPS3802K33DCKR	296-12386-2-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1560.00/3,000		
TPS3802L30DCKR	296-13514-1-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1.47	1.23	.98
TPS3802L30DCKR	296-13514-2-ND	Ultra-Small Supply Voltage Supervisor	SOT-323-5	1560.00/3,000		
TPS3803-01DCKR	296-13405-1-ND	Adj./1.5V Voltage Detector	SC70-5	.96	.72	.54
TPS3803-01DCKR	296-13405-2-ND	Adj./1.5V Voltage Detector	SC70-5	819.00/3,000		
TPS3803-01MDCKREP	296-18151-1-ND	Adj./1.5V Voltage Detector	SC70-5	1.88	1.50	1.13
TPS3803-01MDCKREP	296-18151-2-ND	Adj./1.5V Voltage Detector	SC70-5	2880.00/3,000		
TPS3803-01QDCKRQ1	296-16960-1-ND	Adj./1.5V Voltage Detector	SC70-5	.87	.73	.58
TPS3803-01QDCKRQ1	296-16960-2-ND	Adj./1.5V Voltage Detector	SC70-5	936.00/3,000		
TPS3803G15DCKR	296-13406-1-ND	Adj./1.5V Voltage Detector	SC70-5	.96	.72	.54
TPS3803G15DCKR	296-13406-2-ND	Adj./1.5V Voltage Detector	SC70-5	819.00/3,000		
TPS3803G15MDCKREP	296-19525-1-ND	Adj./1.5V Voltage Detector ***NEW!***	SC70-5	1.88	1.50	1.13
TPS3803G15MDCKREP	296-19525-2-ND	Adj./1.5V Voltage Detector ***NEW!***	SC70-5	2880.00/3,000		
TPS3803G15QDCKREP	296-19526-1-ND	Adj./1.5V Voltage Detector ***NEW!***	SC70-5	1.45	1.16	.87
TPS3803G15QDCKREP	296-19526-2-ND	Adj./1.5V Voltage Detector ***NEW!***	SC70-5	2226.00/3,000		
TPS3803G15QDCKRQ1	296-16961-1-ND	Adj./1.5V Voltage Detector	SC70-5	.87	.73	.58
TPS3803G15QDCKRQ1	296-16961-2-ND	Adj./1.5V Voltage Detector	SC70-5	936.00/3,000		
TPS3805H33DCKR	296-13407-1-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	.87	.73	.58
TPS3805H33DCKR	296-13407-2-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	1131.00/3,000		
TPS3805H33QDCKRQ1	296-16962-1-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	1.02	.85	.68
TPS3805H33QDCKRQ1	296-16962-2-ND	Dual, Adj./3.3V Voltage Detector	SC70-5	1326.00/3,000		
TPS3806I33DBVR	296-12011-1-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	1.50	1.20	.90
TPS3806I33DBVR	296-12011-2-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	1755.00/3,000		
TPS3806J20DBVR	296-12012-1-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	1.50	1.20	.90
TPS3806J20DBVR	296-12012-2-ND	Dual Voltage Detector with Adjustable Hysteresis	SOT-23-6	1755.00/3,000		
TPS3807A30DCKT	296-18602-1-ND	3V, Low Quiescent Current, Dual Channel Supervisory Circuit	SC70-5	2.36	1.89	1.47
TPS3807A30DCKT	296-18602-2-ND	3V, Low Quiescent Current, Dual Channel Supervisory Circuit	SC70-5	349.25/250		
TPS3808G01DBVR	296-17188-1-ND	Adj. Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G01DBVR	296-17188-2-ND	Adj. Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G09DBVR	296-17189-1-ND	0.9V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G09DBVR	296-17189-2-ND	0.9V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G12DBVR	296-17190-1-ND	1.2V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G12DBVR	296-17190-2-ND	1.2V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G12DRVT	296-19294-1-ND	1.2V Voltage Supervisor	6-QFN	2.38	1.90	1.43
TPS3808G12DRVT	296-19294-2-ND	1.2V Voltage Supervisor	6-QFN	332.50/250		
TPS3808G15DBVR	296-17191-1-ND	1.5V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G15DBVR	296-17191-2-ND	1.5V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G18DBVR	296-17192-1-ND	1.8V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G18DBVR	296-17192-2-ND	1.8V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G25DBVR	296-17193-1-ND	2.5V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G25DBVR	296-17193-2-ND	2.5V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G30DBVR	296-17194-1-ND	3.0V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G30DBVR	296-17194-2-ND	3.0V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G33DBVR	296-17195-1-ND	3.3V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G33DBVR	296-17195-2-ND	3.3V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3808G50DBVR	296-17196-1-ND	5.0V Voltage Supervisor	SOT-23	1.75	1.40	1.05
TPS3808G50DBVR	296-17196-2-ND	5.0V Voltage Supervisor	SOT-23	2688.00/3,000		
TPS3809I50DBVR	296-10914-1-ND	4.55V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809I50DBVR	296-10914-2-ND	4.55V Supply Voltage Supervisor	SOT-23	819.00/3,000		
TPS3809I50DBVT	296-2629-1-ND	4.55V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809I50DBVT	296-2629-2-ND	4.55V Supply Voltage Supervisor	SOT-23	99.50/250		
TPS3809I50QDBVRQ1	296-15642-1-ND	4.55V Supply Voltage Supervisor	SOT-23	.87	.73	.58
TPS3809I50QDBVRQ1	296-15642-2-ND	4.55V Supply Voltage Supervisor	SOT-23	936.00/3,000		
TPS3809J25DBVR	296-10915-1-ND	2.25V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809J25DBVR	296-10915-2-ND	2.25V Supply Voltage Supervisor	SOT-23	819.00/3,000		
TPS3809J25DBVT	296-2630-1-ND	2.25V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809J25DBVT	296-2630-2-ND	2.25V Supply Voltage Supervisor	SOT-23	99.50/250		
TPS3809J25QDBVRQ1	296-15643-1-ND	2.25V Supply Voltage Supervisor	SOT-23	.87	.73	.58
TPS3809J25QDBVRQ1	296-15643-2-ND	2.25V Supply Voltage Supervisor	SOT-23	936.00/3,000		
TPS3809K33DBVR	296-10916-1-ND	2.93V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809K33DBVR	296-10916-2-ND	2.93V Supply Voltage Supervisor	SOT-23	819.00/3,000		
TPS3809K33DBVT	296-2631-1-ND	2.93V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809K33DBVT	296-2631-2-ND	2.93V Supply Voltage Supervisor	SOT-23	99.50/250		
TPS3809K33QDBVRQ1	296-15644-1-ND	2.93V Supply Voltage Supervisor	SOT-23	.87	.73	.58
TPS3809K33QDBVRQ1	296-15644-2-ND	2.93V Supply Voltage Supervisor	SOT-23	936.00/3,000		
TPS3809L30DBVR	296-10917-1-ND	2.64V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809L30DBVR	296-10917-2-ND	2.64V Supply Voltage Supervisor	SOT-23	819.00/3,000		
TPS3809L30DBVT	296-2632-1-ND	2.64V Supply Voltage Supervisor	SOT-23	.96	.72	.54
TPS3809L30DBVT	296-2632-2-ND	2.64V Supply Voltage Supervisor	SOT-23	99.50/250		
TPS3809L30QDBVRQ1	296-15645-1-ND	2.64V Supply Voltage Supervisor	SOT-23	.87	.73	.58
TPS3809L30QDBVRQ1	296-15645-2-ND	2.64V Supply Voltage Supervisor	SOT-23	936.00/3,000		
TPS3813I50DBVT	296-10918-1-ND	5V Supervisor with Programmable Watchdog Window	SOT-23-6	2.25	1.80	1.40
TPS3813I50DBVT	296-10918-2-ND	5V Supervisor with Programmable Watchdog Window	SOT-23-6	332.50/250		
TPS3813J25DBVT	296-10919-1-ND	2.5V Supervisor with Programmable Watchdog Window	SOT-23-6	2.25	1.80	1.40
TPS3813J25DBVT	296-10919-2-ND	2.5V Supervisor with Programmable Watchdog Window	SOT-23-6	332.50/250		
TPS3813K33DBVT	296-10920-1-ND	3.3V Supervisor with Programmable Watchdog Window	SOT-23-6	2.25	1.80	1.40
TPS3813K33DBVT	296-10920-2-ND	3.3V Supervisor with Programmable Watchdog Window	SOT-23-6	332.50/250		
TPS3813L30DBVT	296-10921-1-ND	3.0V Supervisor with Programmable Watchdog Window	SOT-23-6	2.25	1.80	1.40
TPS3813L30DBVT	296-10921-2-ND	3.0V Supervisor with Programmable Watchdog Window	SOT-23-6	332.50/250		
TPS3820-33DBVT	296-2633-1-ND	2.93V Supply Monitor	SOT-23-5	1.48	1.18	.89
TPS3820-33DBVT	296-2633-2-ND	2.93V Supply Monitor	SOT-23-5	206.50/250		
TPS3820-33QDBVRQ1	296-15646-1-ND	2.93V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3820-33QDBVRQ1	296-15646-2-ND	2.93V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3820-50DBVT	296-2635-1-ND	4.55V Supply Monitor	SOT-23-5	1.48	1.18	.89
TPS3820-50DBVT	296-2635-2-ND	4.55V Supply Monitor	SOT-23-5	206.50/250		
TPS3820-50QDBVRQ1	296-15647-1-ND	4.55V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3820-50QDBVRQ1	296-15647-2-ND	4.55V Supply Monitor	SOT-23-5	2457.00/3,000		

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS3823-25DBVR	296-3333-1-ND	2.25V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3823-25DBVR	296-3333-2-ND	2.25V Supply Monitor	SOT-23-5	2112.00/3,000		
TPS3823-25QDBVRQ1	296-15648-1-ND	2.25V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3823-25QDBVRQ1	296-15648-2-ND	2.25V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3823-30DBVR	296-3334-1-ND	2.63V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3823-30DBVR	296-3334-2-ND	2.63V Supply Monitor	SOT-23-5	2112.00/3,000		
TPS3823-30QDBVRQ1	296-15649-1-ND	2.63V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3823-30QDBVRQ1	296-15649-2-ND	2.63V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3823-33DBVR	296-1357-1-ND	2.93V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3823-33DBVR	296-1357-2-ND	2.93V Supply Monitor	SOT-23-5	2112.00/3,000		
TPS3823-33QDBVRQ1	296-15650-1-ND	2.93V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3823-33QDBVRQ1	296-15650-2-ND	2.93V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3823-50DBVR	296-3335-1-ND	4.55V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3823-50DBVR	296-3335-2-ND	4.55V Supply Monitor	SOT-23-5	2112.00/3,000		
TPS3823-50DBVT	296-10922-1-ND	4.55V Supply Monitor	SOT-23-5	1.48	1.18	.89
TPS3823-50DBVT	296-10922-2-ND	4.55V Supply Monitor	SOT-23-5	206.50/250		
TPS3823-50QDBVRQ1	296-15651-1-ND	4.55V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3823-50QDBVRQ1	296-15651-2-ND	4.55V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3824-25DBVR	296-3336-1-ND	2.25V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3824-25DBVR	296-3336-2-ND	2.25V Supply Monitor	SOT-23-5	2112.00/3,000		
TPS3824-25QDBVRQ1	296-15652-1-ND	2.25V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3824-25QDBVRQ1	296-15652-2-ND	2.25V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3824-30DBVR	296-3337-1-ND	2.63V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3824-30DBVR	296-3337-2-ND	2.63V Supply Monitor	SOT-23-5	2112.00/3,000		
TPS3824-30QDBVRQ1	296-15653-1-ND	2.63V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3824-30QDBVRQ1	296-15653-2-ND	2.63V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3824-33DBVR	296-3338-1-ND	2.93V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3824-33DBVR	296-3338-2-ND	2.93V Supply Monitor	SOT-23-5	2112.00/3,000		
TPS3824-33QDBVRQ1	296-15654-1-ND	2.93V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3824-33QDBVRQ1	296-15654-2-ND	2.93V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3824-50DBVR	296-1358-1-ND	4.55V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3824-50DBVR	296-1358-2-ND	4.55V Supply Monitor	SOT-23-5	2112.00/3,000		
TPS3824-50QDBVRQ1	296-15655-1-ND	4.55V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3824-50QDBVRQ1	296-15655-2-ND	4.55V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3825-33DBVT	296-2636-1-ND	2.93V Supply Monitor	SOT-23-5	1.65	1.38	1.10
TPS3825-33DBVT	296-2636-2-ND	2.93V Supply Monitor	SOT-23-5	192.50/250		
TPS3825-33QDBVRQ1	296-15656-1-ND	2.93V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3825-33QDBVRQ1	296-15656-2-ND	2.93V Supply Monitor	SOT-23-5	2145.00/3,000		
TPS3825-50DBVT	296-2637-1-ND	4.55V Supply Monitor	SOT-23-5	1.65	1.38	1.10
TPS3825-50DBVT	296-2637-2-ND	4.55V Supply Monitor	SOT-23-5	192.50/250		
TPS3825-50QDBVRQ1	296-15657-1-ND	4.55V Supply Monitor	SOT-23-5	1.38	1.10	.83
TPS3825-50QDBVRQ1	296-15657-2-ND	4.55V Supply Monitor	SOT-23-5	2145.00/3,000		
TPS3828-33DBVT	296-2638-1-ND	2.93V Supply Monitor	SOT-23-5	1.48	1.18	.89
TPS3828-33DBVT	296-2638-2-ND	2.93V Supply Monitor	SOT-23-5	206.50/250		
TPS3828-33QDBVRQ1	296-15658-1-ND	2.93V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3828-33QDBVRQ1	296-15658-2-ND	2.93V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3828-50DBVT	296-2639-1-ND	4.55V Supply Monitor	SOT-23-5	1.48	1.18	.89
TPS3828-50DBVT	296-2639-2-ND	4.55V Supply Monitor	SOT-23-5	206.50/250		
TPS3828-50QDBVRQ1	296-15659-1-ND	4.55V Supply Monitor	SOT-23-5	1.58	1.26	.95
TPS3828-50QDBVRQ1	296-15659-2-ND	4.55V Supply Monitor	SOT-23-5	2457.00/3,000		
TPS3836E18DBVT	296-3339-1-ND	1.71V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3836E18DBVT	296-3339-2-ND	1.71V Low Current Monitor	SOT-23-5	332.50/250		
TPS3836E18QDBVRQ1	296-15660-1-ND	1.71V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3836E18QDBVRQ1	296-15660-2-ND	1.71V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3836H30DBVT	296-13003-1-ND	2.79V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3836H30DBVT	296-13003-2-ND	2.79V Low Current Monitor	SOT-23-5	332.50/250		
TPS3836H30QDBVRQ1	296-15661-1-ND	2.79V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3836H30QDBVRQ1	296-15661-2-ND	2.79V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3836J25DBVT	296-3340-1-ND	2.25V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3836J25DBVT	296-3340-2-ND	2.25V Low Current Monitor	SOT-23-5	332.50/250		
TPS3836J25QDBVRQ1	296-15662-1-ND	2.25V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3836J25QDBVRQ1	296-15662-2-ND	2.25V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3836K33DBVT	296-3341-1-ND	2.93V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3836K33DBVT	296-3341-2-ND	2.93V Low Current Monitor	SOT-23-5	332.50/250		
TPS3836K33QDBVRQ1	296-15663-1-ND	2.93V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3836K33QDBVRQ1	296-15663-2-ND	2.93V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3836L30DBVT	296-3342-1-ND	2.64V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3836L30DBVT	296-3342-2-ND	2.64V Low Current Monitor	SOT-23-5	332.50/250		
TPS3836L30QDBVRQ1	296-15664-1-ND	2.64V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3836L30QDBVRQ1	296-15664-2-ND	2.64V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3837E18DBVT	296-3343-1-ND	1.71V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3837E18DBVT	296-3343-2-ND	1.71V Low Current Monitor	SOT-23-5	332.50/250		
TPS3837E18QDBVRQ1	296-15665-1-ND	1.71V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3837E18QDBVRQ1	296-15665-2-ND	1.71V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3837J25QDBVRQ1	296-15666-1-ND	2.25V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3837J25QDBVRQ1	296-15666-2-ND	2.25V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3837K33DBVT	296-3345-1-ND	2.93V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3837K33DBVT	296-3345-2-ND	2.93V Low Current Monitor	SOT-23-5	332.50/250		
TPS3837K33QDBVRQ1	296-15667-1-ND	2.93V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3837K33QDBVRQ1	296-15667-2-ND	2.93V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3837L30DBVT	296-3346-1-ND	2.64V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3837L30DBVT	296-3346-2-ND	2.64V Low Current Monitor	SOT-23-5	332.50/250		
TPS3837L30QDBVRQ1	296-15668-1-ND	2.64V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3837L30QDBVRQ1	296-15668-2-ND	2.64V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3838E18DBVT	296-3347-1-ND	1.71V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3838E18DBVT	296-3347-2-ND	1.71V Low Current Monitor	SOT-23-5	332.50/250		
TPS3838E18QDBVRQ1	296-15669-1-ND	1.71V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3838E18QDBVRQ1	296-15669-2-ND	1.71V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3838J25DBVT	296-3348-1-ND	2.25V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3838J25DBVT	296-3348-2-ND	2.25V Low Current Monitor	SOT-23-5	332.50/250		
TPS3838K33DBVT	296-3349-1-ND	2.93V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3838K33DBVT	296-3349-2-ND	2.93V Low Current Monitor	SOT-23-5	332.50/250		
TPS3838K33QDBVRQ1	296-15670-1-ND	2.93V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3838K33QDBVRQ1	296-15670-2-ND	2.93V Low Current Monitor	SOT-23-5	3900.00/3,000		
TPS3838L30DBVT	296-3350-1-ND	2.64V Low Current Monitor	SOT-23-5	2.38	1.90	1.43
TPS3838L30DBVT	296-3350-2-ND	2.64V Low Current Monitor	SOT-23-5	332.50/250		
TPS3838L30QDBVRQ1	296-15671-1-ND	2.64V Low Current Monitor	SOT-23-5	2.25	1.80	1.40
TPS3838L30QDBVRQ1	296-15671-2-ND	2.64V Low Current Monitor	SOT-23-5	3900.00/3,000		
UC2543DW	296-3355-5-ND	2.5V Power Supply Monitor	16-SOIC	5.42	4.34	3.66
UC2543N	296-3356-5-ND	2.5V Power Supply Monitor	16-Dip	5.42	4.34	3.66
UC2903DW	296-2640-5-ND	Quad Voltage Supply Monitor	18-SOIC	5.51	4.41	3.43
UC3543DW	296-3357-5-ND	2.5V Power Supply Monitor	16-SOIC	5.36	4.29	3.34
UC3543N	296-3358-5-ND	2.5V Power Supply Monitor	16-Dip	5.36	4.29	3.34
UC3544N	296-3359-5-ND	2.5V Power Supply Monitor	18-Dip	3.53	2.83	2.20
UC3903DW	296-2642-5-ND	Quad Voltage Supply Monitor	18-SOIC	4.73	3.78	2.94

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UC3910D	296-2644-5-ND	4-Bit DAC and Voltage Monitor	16-SOIC	5.70	4.56	3.85
UC39432D	296-11350-5-ND	Precision Analog Controller	8-SOIC	5.51	4.41	3.43
UC39432N	296-11351-5-ND	Precision Analog Controller	8-Dip	5.51	4.41	3.43
UCC2946D	296-2645-5-ND	Microprocessor Supervisor with Watch Dog Timer	8-SOIC	3.15	2.52	1.96
UCC3946D	296-2646-5-ND	Microprocessor Supervisor with Watch Dog Timer	8-SOIC	3.04	2.43	1.89
UCC3946N	296-11547-5-ND	Microprocessor Supervisor with Watch Dog Timer	8-Dip	3.04	2.43	1.89
MOSFET / MOSFET Drivers						
SN75372D	296-3360-5-ND	Dual MOSFET Driver	8-SOIC	2.25	1.80	1.35
SN75372DR	296-14958-1-ND	Dual MOSFET Driver	8-SOIC	2.25	1.80	1.35
SN75372DR	296-14958-2-ND	Dual MOSFET Driver	8-SOIC	2880.00/2,500		
SN75372P	296-3361-5-ND	Dual MOSFET Driver	8-Dip	2.25	1.80	1.35
SN75374D	296-3362-5-ND	Quad MOSFET Driver	16-SOIC	2.48	1.98	1.54
TPS1100D	296-3379-5-ND	P-Channel MOSFET, Rise Time 10nS	8-SOIC	1.41	1.18	.94
TPS1100PWR	296-13383-1-ND	Single P-Channel Enhancement Mode MOSFETs	8-TSSOP	1.41	1.18	.94
TPS1100PWR	296-13383-2-ND	Single P-Channel Enhancement Mode MOSFETs	8-TSSOP	1250.00/2,000		
TPS1101D	296-3381-5-ND	P-Channel MOSFET, Rise Time 5.5nS	8-SOIC	1.88	1.50	1.13
TPS1101PWR	296-13384-1-ND	Single P-Channel Enhancement Mode MOSFETs	16-TSSOP	1.88	1.50	1.13
TPS1101PWR	296-13384-2-ND	Single P-Channel Enhancement Mode MOSFETs	16-TSSOP	1950.00/2,000		
TPS1120D	296-1352-5-ND	Dual P-Channel MOSFET	8-SOIC	1.75	1.40	1.05
TPS1120DR	296-1352-1-ND	Dual P-Channel MOSFET	8-SOIC	1.75	1.40	1.05
TPS1120DR	296-1352-2-ND	Dual P-Channel MOSFET	8-SOIC	2240.00/2,500		
TPS2811D	296-2385-5-ND	Dual 2A Invert MOSFET Driver	8-SOIC	2.15	1.72	1.29
TPS2811P	296-3363-5-ND	Dual 2A High Speed Invert MOSFET Driver	8-Dip	2.15	1.72	1.29
TPS2811PW	296-15640-5-ND	Dual 2A High Speed Invert MOSFET Driver	8-TSSOP	2.15	1.72	1.29
TPS2812D	296-3364-5-ND	Dual 2A High Speed Non-Invert FET Driver	8-SOIC	2.15	1.72	1.29
TPS2812P	296-3365-5-ND	Dual 2A High Speed Non-Invert FET Driver	8-Dip	2.15	1.72	1.29
TPS2812PWR	296-15139-1-ND	Dual 2A High Speed Non-Invert FET Driver	8-TSSOP	2.15	1.72	1.29
TPS2812PWR	296-15139-2-ND	Dual 2A High Speed Non-Invert FET Driver	8-TSSOP	2236.00/2,000		
TPS2813D	296-1356-5-ND	Dual 2A High Speed Complementary MOSFET Driver	8-SOIC	2.15	1.72	1.29
TPS2813DR	296-1356-1-ND	Dual 2A Complementary MOSFET Driver	8-SOIC	2.15	1.72	1.29
TPS2813DR	296-1356-2-ND	Dual 2A Complementary MOSFET Driver	8-SOIC	2752.50/2,500		
TPS2813P	296-2386-5-ND	Dual 2A Complementary MOSFET Driver	8-Dip	2.15	1.72	1.29
TPS2813PWR	296-3367-1-ND	Dual 2A Complementary MOSFET Driver	8-TSSOP	2.15	1.72	1.29
TPS2813PWR	296-3367-2-ND	Dual 2A Complementary MOSFET Driver	8-TSSOP	2236.00/2,000		
TPS2814D	296-3368-5-ND	Dual 2A High Speed MOSFET Driver	8-SOIC	2.15	1.72	1.29
TPS2814P	296-2387-5-ND	Dual 2A MOSFET Driver	8-Dip	2.15	1.72	1.29
TPS2814PWR	296-3369-1-ND	Dual 2A MOSFET Driver	8-TSSOP	2.15	1.72	1.29
TPS2814PWR	296-3369-2-ND	Dual 2A MOSFET Driver	8-TSSOP	2236.00/2,000		
TPS2815D	296-2388-5-ND	Dual 2A NAND MOSFET Driver	8-SOIC	2.15	1.72	1.29
TPS2815P	296-3370-5-ND	Dual 2A HS NAND MOSFET Driver	8-Dip	2.15	1.72	1.29
TPS2816DBVR	296-3371-1-ND	2A HS Inverting MOSFET Driver	SOT-23-5	1.55	1.24	.93
TPS2816DBVR	296-3371-2-ND	2A HS Inverting MOSFET Driver	SOT-23-5	2382.00/3,000		
TPS2817DBVR	296-3372-1-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	1.55	1.24	.93
TPS2817DBVR	296-3372-2-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	2382.00/3,000		
TPS2818DBVR	296-3373-1-ND	2A HS Inverting MOSFET Driver	SOT-23-5	1.55	1.24	.93
TPS2818DBVR	296-3373-2-ND	2A HS Inverting MOSFET Driver	SOT-23-5	2382.00/3,000		
TPS2819DBVR	296-3374-1-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	1.55	1.24	.93
TPS2819DBVR	296-3374-2-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	2382.00/3,000		
TPS2828DBVR	296-1986-1-ND	2A HS Inverting MOSFET Driver	SOT-23-5	1.43	1.14	.86
TPS2828DBVR	296-1986-2-ND	2A HS Inverting MOSFET Driver	SOT-23-5	2190.00/3,000		
TPS2829DBVR	296-1987-1-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	1.43	1.14	.86
TPS2829DBVR	296-1987-2-ND	2A HS Non-Invert MOSFET Driver	SOT-23-5	2190.00/3,000		
TPS2830D	296-2390-5-ND	Non-Inverting Fast Sync. BUCK FET Driver	14-SOIC	2.36	1.89	1.47
TPS2830PWP	296-3376-5-ND	Non-Inverting Fast Sync. BUCK MOSFET Driver	14-HTSSOP	2.36	1.89	1.47
TPS2831D	296-2391-5-ND	Invert Fast Sync. BUCK MOSFET Driver	14-SOIC	2.36	1.89	1.47
TPS2831PWP	296-3377-5-ND	Invert Fast Sync. BUCK MOSFET Driver	14-HTSSOP	2.36	1.89	1.47
TPS2832D	296-2392-5-ND	Non-Invert Fast Sync. BUCK FET Driver	8-SOIC	2.25	1.80	1.40
TPS2833D	296-2393-5-ND	Invert Fast Sync. BUCK MOSFET Driver	8-SOIC	2.25	1.80	1.40
TPS2834D	296-2394-5-ND	Non-Invert Fast Sync. BUCK FET Driver	14-SOIC	2.36	1.89	1.47
TPS2834PWP	296-3378-5-ND	Non-Invert Fast Sync. BUCK MOSFET Driver	14-HTSSOP	2.36	1.89	1.47
TPS2835D	296-2395-5-ND	Invert Fast Sync. BUCK MOSFET Driver	14-SOIC	2.36	1.89	1.47
TPS2835PWP	296-10885-5-ND	Invert Fast Sync. BUCK MOSFET Driver	14-HTSSOP	2.36	1.89	1.47
TPS2836D	296-2396-5-ND	Non-Invert Fast Sync. BUCK FET Driver	8-SOIC	2.81	2.25	1.75
TPS2838PWP	296-10886-5-ND	Non-Inverting Fast Sync. BUCK MOSFET Driver	16-HTSSOP	2.93	2.34	1.82
TPS2839PWP	296-10887-5-ND	Inverting Fast Sync. BUCK MOSFET Driver	16-HTSSOP	3.26	2.61	2.03
TPS2848PWP	296-10888-5-ND	MOSFET Driver with Regulator	14-HTSSOP	2.81	2.25	1.75
TPS2849PWP	296-10889-5-ND	MOSFET Driver with Regulator	14-HTSSOP	2.81	2.25	1.75
TPS2837D	296-2397-5-ND	Invert Fast Sync. BUCK MOSFET Driver	8-SOIC	2.81	2.25	1.75
UC2709DW	296-2398-5-ND	Dual High Speed MOSFET Driver	16-SOIC	8.50	6.80	5.74
UC2710N	296-2399-5-ND	High Current MOSFET Driver	8-Dip	7.20	5.76	4.86
UC2714D	296-12113-5-ND	Complementary Switch FET Driver with Aux Out	8-SOIC	2.36	1.89	1.47

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UC2714N	296-12171-5-ND	Complementary Switch FET Driver with Aux Out	8-Dip	2.36	1.89	1.47
UC2715D	296-12172-5-ND	Complementary Switch FET Driver with Aux Out	8-SOIC	2.25	1.80	1.40
UC2715DP	296-12173-5-ND	Complementary Switch FET Driver with Aux Out	16-SOIC	2.25	1.80	1.40
UC2715N	296-12174-5-ND	Complementary Switch FET Driver with Aux Out	8-Dip	2.25	1.80	1.40
UC3706N	296-11242-5-ND	Dual High Speed MOSFET Driver	16-Dip	5.18	4.14	3.22
UC3709DW	296-2400-5-ND	Dual High Speed MOSFET Driver	16-SOIC	5.80	4.64	3.92
UC3709N	296-11245-5-ND	Dual High Speed MOSFET Driver	8-Dip	5.80	4.64	3.92
UC3710DW	296-2401-5-ND	Complimentary High Current MOSFET Driver	16-SOIC	6.50	5.20	4.39
UC3710N	296-11246-5-ND	High-Current MOSFET Driver	8-Dip	6.50	5.20	4.39
UC3710T	296-11247-5-ND	High-Current MOSFET Driver	TO-220-5	6.50	5.20	4.39
UC3714D	296-11253-5-ND	High-Current MOSFET Driver	8-SOIC	2.38	1.90	1.43
UC3714DP	296-11254-5-ND	High-Current MOSFET Driver	16-SOIC	2.38	1.90	1.43
UC3714N	296-11255-5-ND	High-Current MOSFET Driver	8-Dip	2.38	1.90	1.43
UC3715D	296-11256-5-ND	High-Current MOSFET Driver	8-SOIC	2.25	1.80	1.35
UC3715DP	296-11668-5-ND	Complimentary Switch MOSFET Driver with Aux Out	16-SOIC	2.25	1.80	1.35
UC3715N	296-11257-5-ND	High-Current MOSFET Driver	8-Dip	2.25	1.80	1.35
UCC2837D	296-2403-5-ND	N-FET Linear Regulating Controller	8-SOIC	5.30	4.24	3.58
UCC27321D	296-13670-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.48	1.98	1.54
UCC27321DGN	296-13671-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.70	2.16	1.68
UCC27321P	296-13672-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.48	1.98	1.54
UCC27322D	296-13673-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.48	1.98	1.54
UCC27322DGN	296-13674-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.70	2.16	1.68
UCC27322P	296-13675-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.48	1.98	1.54
UCC27323D	296-12528-5-ND	4A High Speed Dual MOSFET Driver	8-SOIC	2.00	1.60	1.20
UCC27323DGN	296-12529-5-ND	4A High Speed Dual MOSFET Driver	8-MSOP	2.25	1.80	1.35
UCC27323P	296-12530-5-ND	4A High Speed Dual MOSFET Driver	8-Dip	2.00	1.60	1.20
UCC27324D	296-12531-5-ND	4A High Speed Dual MOSFET Driver	8-SOIC	2.00	1.60	1.20
UCC27324DGN	296-12532-5-ND	4A High Speed Dual MOSFET Driver	8-MSOP	2.00	1.60	1.20
UCC27324P	296-12533-5-ND	4A High Speed Dual MOSFET Driver	8-Dip	2.00	1.60	1.20
UCC27325D	296-12534-5-ND	4A High Speed Dual MOSFET Driver	8-SOIC	2.00	1.60	1.20
UCC27325DGN	296-12535-5-ND	4A High Speed Dual MOSFET Driver	8-MSOP	2.00	1.60	1.20
UCC27325P	296-12536-5-ND	4A High Speed Dual MOSFET Driver	8-Dip	2.00	1.60	1.20
UCC27423D	296-15864-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-SOIC	2.13	1.70	1.28
UCC27423DGN	296-15865-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-MSOP	2.13	1.70	1.28
UCC27423P	296-15866-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-Dip	2.13	1.70	1.28
UCC27424D	296-15867-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-SOIC	2.00	1.60	1.20
UCC27424DGN	296-15868-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-MSOP	2.00	1.60	1.20
UCC27424P	296-15869-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-Dip	2.00	1.60	1.20
UCC27425D	296-15870-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-SOIC	2.00	1.60	1.20
UCC27425DGN	296-15871-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-MSOP	2.00	1.60	1.20
UCC27425P	296-15872-5-ND	4A Dual High Speed Low-Side MOSFET Driver	8-Dip	2.00	1.60	1.20
UCC37321D	296-13684-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.48	1.98	1.49
UCC37321DGN	296-13685-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.48	1.98	1.54
UCC37321P	296-13686-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.48	1.98	1.49
UCC37322D	296-13687-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-SOIC	2.48	1.98	1.49
UCC37322DGN	296-13688-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-MSOP	2.48	1.98	1.54
UCC37322P	296-13689-5-ND	Single 9A High Speed Low-Side MOSFET Driver with Enable	8-Dip	2.48	1.98	1.49
UCC37323D	296-15691-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-SOIC	1.88	1.50	1.13
UCC37323DGN	296-15692-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-MSOP	2.13	1.70	1.28
UCC37323P	296-15693-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-Dip	1.88	1.50	1.13
UCC37324D	296-15694-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-SOIC	1.88	1.50	1.13
UCC37324DGN	296-15695-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-MSOP	1.88	1.50	1.13
UCC37324P	296-15696-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-Dip	1.88	1.50	1.13
UCC37325D	296-15697-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-SOIC	1.88	1.50	1.13
UCC37325DGN	296-15698-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-MSOP	1.88	1.50	1.13
UCC37325P	296-15699-5-ND	Dual 4A High Speed Low-Side, Power MOSFET Driver	8-Dip	1.88	1.50	1.13
UCD7100PWP	296-18042-5-ND	Digital Control Compatible Single Low Side ±4A MOSFET Driver	14-HTSSOP	2.48	1.98	1.49
UCD7201PWP	296-17924-5-ND	MOSFET Driver with Single Common Current Sense	14-HTSSOP	2.70	2.16	1.68

Power Distribution Switches

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2010AD	296-2555-5-ND	0.2A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2010APWP	296-3384-5-ND	0.2A, 2.7-5.5V High-Side MOSFET Switch	14-HTSSOP	2.13	1.70	1.28
TPS2010PWR	296-3385-1-ND	0.2A, 2.7-5.5V High-Side MOSFET Switch	14-TSSOP	2.38	1.90	1.43
TPS2010PWR	296-3385-2-ND	0.2A, 2.7-5.5V High-Side MOSFET Switch	14-TSSOP	2470.00/2,000		
TPS2011AD	296-2556-5-ND	0.6A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2011APWP	296-13804-5-ND	0.6A, 2.7-5.5V High-Side MOSFET Switch	8-HTSSOP	2.13	1.70	1.28
TPS2011D	296-3386-5-ND	0.6A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.38	1.90	1.43
TPS2012AD	296-2557-5-ND	1.0A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2012D	296-1957-5-ND	1.0A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.38	1.90	1.43
TPS2013AD	296-2558-5-ND	1.5A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2013APWPR	296-17531-1-ND	2.2A, 2.7-5.5V High-Side MOSFET Switch	14-TSSOP	2.13	1.70	1.28
TPS2013APWPR	296-17531-2-ND	2.2A, 2.7-5.5V High-Side MOSFET Switch	14-TSSOP	2210.00/2,000		
TPS2013D	296-1353-5-ND	1.5A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.38	1.90	1.43
TPS2013DR	296-1353-1-ND	1.5A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.38	1.90	1.43
TPS2013DR	296-1353-2-ND	1.5A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	3040.00/2,500		
TPS2013PWR	296-3388-1-ND	1.5A, 2.7-5.5V High-Side MOSFET Switch	14-TSSOP	2.38	1.90	1.43
TPS2013PWR	296-3388-2-ND	1.5A, 2.7-5.5V High-Side MOSFET Switch	14-TSSOP	2470.00/2,000		
TPS2014D	296-1354-5-ND	0.66A, 4-5.5V High-Side MOSFET Switch	8-SOIC	4.50	3.60	2.80
TPS2014DR	296-1354-1-ND	0.66A, 4-5.5V High-Side MOSFET Switch	8-SOIC	4.50	3.60	2.80
TPS2014DR	296-1354-2-ND	0.66A, 4-5.5V High-Side MOSFET Switch	8-SOIC	6300.00/2,500		
TPS2014P	296-3389-5-ND	0.66A, 4-5.5V High-Side MOSFET Switch	8-Dip	4.50	3.60	2.80
TPS2015D	296-1355-5-ND	1.0A, 4-5.5V High-Side MOSFET Switch	8-SOIC	4.50	3.60	2.80
TPS2015DR	296-1355-1-ND	1.0A, 4-5.5V High-Side MOSFET Switch	8-SOIC	4.50	3.60	2.80
TPS2015DR	296-1355-2-ND	1.0A, 4-5.5V High-Side MOSFET Switch	8-SOIC	6300.00/2,500		
TPS2015P	296-3390-5-ND	1.0A, 4-5.5V High-Side MOSFET Switch	8-Dip	4.50	3.60	2.80
TPS2020D	296-2560-5-ND	0.22A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2021D	296-2561-5-ND	0.66A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2022D	296-2562-5-ND	1.1A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2023D	296-2563-5-ND	1.65A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2023P	296-12233-5-ND	1.65A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.15	1.72	1.29
TPS2024D	296-2564-5-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2024DR	296-2564-1-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2024DR	296-2564-2-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2752.50/2,500		
TPS2024P	296-12234-5-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.15	1.72	1.29
TPS2030D	296-2565-5-ND	0.22A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2030IDRQ1	296-18668-1-ND	0.22A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.36	1.89	1.47
TPS2030IDRQ1	296-18668-2-ND	0.22A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	3307.50/2,500		
TPS2030P	296-3392-5-ND	0.22A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.15	1.72	1.29
TPS2031D	296-2566-5-ND	0.66A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2032D	296-2567-5-ND	1.1A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2033D	296-2568-5-ND	1.65A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2033P	296-12235-5-ND	1.65A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.15	1.72	1.29
TPS2034D	296-2569-5-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-SOIC	2.15	1.72	1.29
TPS2034P	296-12236-5-ND	2.2A, 2.7-5.5V Hot-Swap High-Side MOSFET Switch	8-Dip	2.15	1.72	1.29
TPS2041AD	296-3393-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.70	1.36	1.02
TPS2041BD	296-16927-5-ND	0.7A, 2.7-5.5V, High-Side MOSFET Switch	16-SOIC	1.26	1.05	.84
TPS2041BDGN	296-18930-5-ND	0.7A, 2.7-5.5V, High-Side MOSFET Switch	8-MSOP	1.25	1.00	.75
TPS2041D	296-3394-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.39	1.91	1.49
TPS2041P	296-2570-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.39	1.91	1.49
TPS2042AD	296-3395-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.13	1.70	1.28
TPS2042BDGN	296-17060-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-MSOP	3.04	2.28	1.71
TPS2042BDR	296-17002-1-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.68	1.34	1.01
TPS2042BDR	296-17002-2-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2145.00/2,500		
TPS2042D	296-3396-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.88	2.31	1.80

(Continued)

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POWER SUPPLY PRODUCTS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS2042DR	296-3396-1-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.88	2.31	1.80
TPS2042DR	296-3396-2-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC		4032.50/2,500	
TPS2042P	296-2571-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.88	2.31	1.80
TPS2043AD	296-3397-5-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2043BD	296-17211-5-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	1.90	1.52	1.14
TPS2043D	296-2572-5-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2043DR	296-2572-1-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2043DR	296-2572-2-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC		5102.50/2,500	
TPS2044AD	296-3399-5-ND	Quad (2in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.77	2.22	1.73
TPS2044BD	296-18931-5-ND	Quad (2in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.10	1.68	1.26
TPS2044D	296-1959-5-ND	Quad (2in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	4.59	3.68	2.86
TPS2045AD	296-3400-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.43	1.14	.86
TPS2045D	296-2573-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.39	1.91	1.49
TPS2045DR	296-2573-1-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.39	1.91	1.49
TPS2045DR	296-2573-2-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC		3340.00/2,500	
TPS2045P	296-3402-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.39	1.91	1.49
TPS2046AD	296-3403-5-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.03	1.62	1.22
TPS2046BDR	296-17246-1-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.38	1.10	.83
TPS2046BDR	296-17246-2-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC		1760.00/2,500	
TPS2046D	296-2574-5-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2046DR	296-2574-1-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2046DR	296-2574-2-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC		3875.00/2,500	
TPS2046P	296-3405-5-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.77	2.22	1.73
TPS2047AD	296-3406-5-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.45	1.96	1.47
TPS2047BD	296-17403-5-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	1.90	1.52	1.14
TPS2047D	296-2575-5-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.83	3.06	2.38
TPS2047DR	296-2575-1-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.83	3.06	2.38
TPS2047DR	296-2575-2-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC		5355.00/2,500	
TPS2048AD	296-3408-5-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.57	2.06	1.60
TPS2048DR	296-3409-1-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	4.88	3.91	3.04
TPS2048DR	296-3409-2-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC		6835.00/2,500	
TPS2051AD	296-3410-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.50	1.20	.90
TPS2051BDGNR	296-17313-1-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-MSOP	1.44	1.20	.96
TPS2051BDGNR	296-17313-2-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-MSOP		1560.00/2,500	
TPS2051BDR	296-16987-1-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.44	1.20	.96
TPS2051BDR	296-16987-2-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC		1560.00/2,500	
TPS2051D	296-2576-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2051P	296-3411-5-ND	0.7A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.30	1.84	1.43
TPS2052AD	296-3412-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.03	1.62	1.22
TPS2052BDR	296-17451-1-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.38	1.10	.83
TPS2052BDR	296-17451-2-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC		1760.00/2,500	
TPS2052BDGN	296-17459-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-MSOP	1.58	1.26	.95
TPS2052D	296-2577-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2052DR	296-2577-1-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2052DR	296-2577-2-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC		3875.00/2,500	
TPS2052P	296-3414-5-ND	Dual (1in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.77	2.22	1.73
TPS2053AD	296-3415-5-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.45	1.96	1.47
TPS2053BD	296-18932-5-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	1.90	1.52	1.14
TPS2053D	296-2578-5-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2053DR	296-2578-1-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2053DR	296-2578-2-ND	Triple (2in/3out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC		5102.50/2,500	
TPS2054AD	296-3417-5-ND	Quad (2in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.88	2.31	1.80
TPS2054BDR	296-16988-1-ND	Quad (2in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.38	1.90	1.43
TPS2054BDR	296-16988-2-ND	Quad (2in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC		3040.00/2,500	
TPS2054D	296-1960-5-ND	Quad (2in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	4.79	3.84	2.99
TPS2055AD	296-3418-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.44	1.20	.96
TPS2055D	296-2579-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2055DR	296-2579-1-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.30	1.84	1.43
TPS2055DR	296-2579-2-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC		3212.50/2,500	
TPS2055P	296-3420-5-ND	0.345A, 2.7-5.5V High-Side MOSFET Switch	8-Dip	2.30	1.84	1.43
TPS2056AD	296-3421-5-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.03	1.62	1.22
TPS2056D	296-2580-5-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2056DR	296-2580-1-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	2.77	2.22	1.73
TPS2056DR	296-2580-2-ND	Dual (1in/2out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC		3875.00/2,500	
TPS2057AD	296-3423-5-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.15	1.72	1.29
TPS2057D	296-2581-5-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2057DR	296-2581-1-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	3.65	2.92	2.27
TPS2057DR	296-2581-2-ND	Triple (2in/3out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC		5102.50/2,500	
TPS2058AD	296-3425-5-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	2.38	1.90	1.43
TPS2058D	296-2582-5-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	4.59	3.68	2.86
TPS2058DR	296-2582-1-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC	4.59	3.68	2.86
TPS2058DR	296-2582-2-ND	Quad (2in/4out), 0.345A, 2.7-5.5V High-Side MOSFET Switch	16-SOIC		6425.00/2,500	
TPS2060DGN	296-18023-5-ND	1.5A, 80m-Ohm, Dual Current-Limited, Power Distribution Switch	8-MSOP	2.10	1.68	1.26
TPS2061D	296-18024-5-ND	1A, 80m-Ohm, Single Current-Limited, Power Distribution Switch	8-SOIC	1.25	1.00	.75
TPS2061DGNR	296-17225-1-ND	Current-Limited Power-Distribution Switch	8-MSOP	1.25	1.00	.75
TPS2061DGNR	296-17225-2-ND	Current-Limited Power-Distribution Switch	8-MSOP		1600.00/2,500	
TPS2062D	296-18933-5-ND	1A, 2.7-5.5V Dual High-Side MOSFET Switch	8-SOIC	1.58	1.26	.95
TPS2062DGN	296-17536-5-ND	1A, 2.7-5.5V Dual High-Side MOSFET Switch	8-HTSSOP	1.58	1.26	.95
TPS2063DR	296-17386-1-ND	1A, 2.7-5.5V Triple High-Side MOSFET Switch	16-SOIC	1.90	1.52	1.14
TPS2063DR	296-17386-2-ND	1A, 2.7-5.5V Triple High-Side MOSFET Switch	16-SOIC		2432.50/2,500	
TPS2064DGN	296-17871-5-ND	Current-Limited, Dual Power-Distribution Switch	8-MSOP	2.27	1.82	1.42
TPS2065DGNR	296-17314-1-ND	1A, 2.7-5.5V High-Side MOSFET Switch	8-MSOP	1.48	1.18	.89
TPS2065DGNR	296-17314-2-ND	1A, 2.7-5.5V High-Side MOSFET Switch	8-MSOP		1887.50/2,500	
TPS2065DR	296-17315-1-ND	1A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC	1.25	1.00	.75
TPS2065DR	296-17315-2-ND	1A, 2.7-5.5V High-Side MOSFET Switch	8-SOIC		1600.00/2,500	
TPS2066D	296-18934-5-ND	1A, 2.7-5.5V Dual High-Side MOSFET Switch	8-SOIC	1.58	1.26	.95
TPS2066DGNR	296-17316-1-ND	1A, 2.7-5.5V Dual High-Side MOSFET Switch	8-MSOP	1.78	1.42	1.07
TPS2066DGNR	296-17316-2-ND	1A, 2.7-5.5V Dual High-Side MOSFET Switch	8-MSOP		2272.50/2,500	
TPS2067DR	296-17387-1-ND	1A, 2.7-5.5V Triple High-Side MOSFET Switch	16-SOIC	1.90	1.52	1.14
TPS2067DR	296-17387-2-ND	1A, 2.7-5.5V Triple High-Side MOSFET Switch	16-SOIC		2432.50/2,500	
TPS2070DAP	296-3427-5-ND	Dual PCMCIA Power I/F Switch, Act. Low	32-HTSSOP	5.10	4.08	3.45
TPS2071DAP	296-3428-5-ND	Dual PCMCIA Power I/F Switch, Act. High	32-HTSSOP	5.10	4.08	3.45
TPS2074DB	296-3429-5-ND	USB Hub Power Cont., Act. Low	24-SSOP	5.10	4.08	3.45
TPS2075DB	296-3430-5-ND	USB Hub Power Cont., Act. High	24-SSOP	5.10	4.08	3.45
TPS2080D	296-3431-5-ND	Dual (2in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. High	8-SOIC	1.63	1.30	.98
TPS2081D	296-3432-5-ND	Dual (2in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.63	1.30	.98
TPS2082D	296-3433-5-ND	Dual (2in/2out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.63	1.30	.98
TPS2085D	296-3434-5-ND	Quad (4in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. High	16-SOIC	2.36	1.89	1.47
TPS2086D	296-3435-5-ND	Quad (4in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.36	1.89	1.47
TPS2087D	296-3436-5-ND	Quad (4in/4out), 0.7A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.36	1.89	1.47
TPS2090D	296-3437-5-ND	Dual (2in/2out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. High	8-SOIC	1.63	1.30	.98
TPS2091D	296-3438-5-ND	Dual (2in/2out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.63	1.30	.98
TPS2092D	296-3439-5-ND	Dual (2in/2out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	8-SOIC	1.63	1.30	.98
TPS2095D	296-3440-5-ND	Quad (4in/4out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. High	16-SOIC	2.36	1.89	1.47
TPS2096D	296-3441-5-ND	Quad (4in/4out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.36	1.89	1.47

(Continued)

★ ***CALL FOR LOWER PRICING ON LARGER QUANTITIES!*** ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS2097D	296-3442-5-ND	Quad (4in/4out), 0.3A, 2.7-5.5V High-Side MOSFET Switch, Act. Low	16-SOIC	2.36	1.89	1.47
TPS2100D	296-2583-5-ND	VAUX Power Distribution Switch	8-SOIC	1.63	1.30	.98
TPS2100DBVR	296-10878-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.63	1.30	.98
TPS2100DBVR	296-10878-2-ND	VAUX Power Distribution Switch	SOT-23-5	2496.00/3,000		
TPS2100DBVT	296-2584-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.75	1.40	1.05
TPS2100DBVT	296-2584-2-ND	VAUX Power Distribution Switch	SOT-23-5	245.00/250		
TPS2101D	296-2585-5-ND	VAUX Power Distribution Switch	8-SOIC	1.63	1.30	.98
TPS2101DBVR	296-10879-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.63	1.30	.98
TPS2101DBVR	296-10879-2-ND	VAUX Power Distribution Switch	SOT-23-5	2496.00/3,000		
TPS2101DBVT	296-2586-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.75	1.40	1.05
TPS2101DBVT	296-2586-2-ND	VAUX Power Distribution Switch	SOT-23-5	245.00/250		
TPS2102D	296-2587-5-ND	VAUX Power Distribution Switch	8-SOIC	1.88	1.50	1.13
TPS2102DBVR	296-10880-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.88	1.50	1.13
TPS2102DBVR	296-10880-2-ND	VAUX Power Distribution Switch	SOT-23-5	2880.00/3,000		
TPS2102DBVT	296-2588-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.00	1.60	1.20
TPS2102DBVT	296-2588-2-ND	VAUX Power Distribution Switch	SOT-23-5	280.00/250		
TPS2103D	296-2589-5-ND	VAUX Power Distribution Switch	8-SOIC	1.88	1.50	1.13
TPS2103DBVR	296-10881-1-ND	VAUX Power Distribution Switch	SOT-23-5	1.88	1.50	1.13
TPS2103DBVR	296-10881-2-ND	VAUX Power Distribution Switch	SOT-23-5	2880.00/3,000		
TPS2103DBVT	296-2590-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.00	1.60	1.20
TPS2103DBVT	296-2590-2-ND	VAUX Power Distribution Switch	SOT-23-5	280.00/250		
TPS2104D	296-2591-5-ND	VAUX Power Distribution Switch	8-SOIC	2.25	1.80	1.35
TPS2104DBVR	296-10882-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.25	1.80	1.35
TPS2104DBVR	296-10882-2-ND	VAUX Power Distribution Switch	SOT-23-5	3456.00/3,000		
TPS2104DBVT	296-3447-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.25	1.80	1.40
TPS2104DBVT	296-3447-2-ND	VAUX Power Distribution Switch	SOT-23-5	332.50/250		
TPS2105D	296-2592-5-ND	VAUX Power Distribution Switch	8-SOIC	2.25	1.80	1.35
TPS2105DBVR	296-10883-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.25	1.80	1.35
TPS2105DBVR	296-10883-2-ND	VAUX Power Distribution Switch	SOT-23-5	3456.00/3,000		
TPS2105DBVT	296-3448-1-ND	VAUX Power Distribution Switch	SOT-23-5	2.25	1.80	1.40
TPS2105DBVT	296-3448-2-ND	VAUX Power Distribution Switch	SOT-23-5	332.50/250		
TPS2110APWR	296-16935-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2110APWR	296-16935-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2110PW	296-14202-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2111AEVM-061	296-18935-ND	Evaluation Module for TPS2111A-061	—	14.23	—	—
TPS2111APWR	296-16936-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2111APWR	296-16936-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2111PW	296-14203-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2112APWR	296-16937-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2112APWR	296-16937-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2113AEVM-061	296-18936-ND	Evaluation Module for TPS2113A-061	—	14.23	—	—
TPS2113APWR	296-16938-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2113APWR	296-16938-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2113PW	296-14205-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2114APWR	296-16939-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2114APWR	296-16939-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2114PW	296-14206-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2115AEVM-061	296-18937-ND	Evaluation Module for TPS2115A-061	—	14.23	—	—
TPS2115APWR	296-16940-1-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2115APWR	296-16940-2-ND	2-Input Autoswitching Power Mux	8-TSSOP	1950.00/2,000		
TPS2115PW	296-14207-5-ND	2-Input Autoswitching Power Mux	8-TSSOP	1.88	1.50	1.13
TPS2145IPWP	296-13385-5-ND	LDO and Dual Switch with Controlled Rise Times for DSP and Portable Applications	14-TSSOP	2.59	2.07	1.61
TPS2147IDGQ	296-13386-5-ND	LDO and Dual Switch with Controlled Rise Times for DSP and Portable Applications	10-MSOP	2.48	1.98	1.54
TPS2148IDGN	296-13387-5-ND	3.3V, LDO and Dual Switch for USB Peripheral Power Management	8-MSOP	2.48	1.98	1.49
TPS2149IDGN	296-13388-5-ND	3.3V, LDO and Dual Switch for USB Bus Powered Hub Power Management	8-MSOP	2.38	1.90	1.43
TPS2155IPWP	296-13389-5-ND	LDO and Dual Switch with Controlled Rise Times for DSP and Portable Applications	14-TSSOP	2.59	2.07	1.61
TPS2158IDGN	296-13391-5-ND	3.3V, LDO and Dual Switch for USB Peripheral Power Management	8-MSOP	2.48	1.98	1.49
TPS2159IDGN	296-13392-5-ND	3.3V, LDO and Dual Switch for USB Bus Powered Hub Power Management	8-MSOP	2.38	1.90	1.43
TPS2201IDBR	296-3449-1-ND	Dual PCMCIA Power Switch	30-SSOP	11.75	10.58	9.38
TPS2201IDBR	296-3449-2-ND	Dual PCMCIA Power Switch	30-SSOP	17414.00/2,000		
TPS2201IDFR	296-3450-1-ND	Dual PCMCIA Power Switch	30-SSOP	11.75	10.58	9.38
TPS2201IDFR	296-3450-2-ND	Dual PCMCIA Power Switch	30-SSOP	8707.00/1,000		
TPS2202AIDBR	296-3451-1-ND	Dual PCMCIA Power Switch	30-SSOP	11.16	10.05	8.92
TPS2202AIDBR	296-3451-2-ND	Dual PCMCIA Power Switch	30-SSOP	16550.00/2,000		
TPS2204APWP	296-15133-5-ND	Dual PCMCIA Power Switch	24-HTSSOP	4.16	3.33	2.59
TPS2205IDBR	296-3455-1-ND	Dual PCMCIA Power I/F Switch	30-SSOP	5.80	4.64	3.92
TPS2205IDBR	296-3455-2-ND	Dual PCMCIA Power I/F Switch	30-SSOP	7250.00/2,000		
TPS2205IDFR	296-3456-1-ND	Dual PCMCIA Power I/F Switch	30-SSOP	5.80	4.64	3.92
TPS2205IDFR	296-3456-2-ND	Dual PCMCIA Power I/F Switch	30-SSOP	3625.00/1,000		
TPS2206ADAP	296-15134-5-ND	Dual PCMCIA Power I/F Switch	32-TSSOP	4.73	3.78	2.94
TPS2206ADB	296-14058-5-ND	Dual PCMCIA Power I/F Switch	30-SSOP	4.73	3.78	2.94
TPS2206IDAPR	296-3457-1-ND	Dual PCMCIA Power Switch	32-TSSOP	5.90	4.72	3.99
TPS2206IDAPR	296-3457-2-ND	Dual PCMCIA Power Switch	32-TSSOP	7376.00/2,000		
TPS2206IDB	296-2246-5-ND	Dual PCMCIA Power Switch	30-SSOP	5.90	4.72	3.99
TPS2206IDBR	296-2246-1-ND	Dual PCMCIA Power Switch	30-SSOP	5.90	4.72	3.99
TPS2206IDBR	296-2246-2-ND	Dual PCMCIA Power Switch	30-SSOP	7376.00/2,000		
TPS2206IDFR	296-13510-1-ND	Dual PCMCIA Power Switch	30-SSOP	5.90	4.72	3.99
TPS2206IDFR	296-13510-2-ND	Dual PCMCIA Power Switch	30-SSOP	3688.00/1,000		
TPS2210APWP	296-15135-5-ND	PCMCIA Power Interface Switch	24-HTSSOP	2.03	1.62	1.22
TPS2211AIDB	296-3460-5-ND	PCMCIA Power Interface Switch	16-SSOP	1.78	1.42	1.07
TPS2211AIDBR	296-13827-1-ND	PCMCIA Power Interface Switch	16-SSOP	1.78	1.42	1.07
TPS2211AIDBR	296-13827-2-ND	PCMCIA Power Interface Switch	16-SSOP	1846.00/2,000		
TPS2211APW	296-18279-5-ND	PCMCIA Power Interface Switch	20-SSOP	1.78	1.42	1.07
TPS2211APWP	296-13872-5-ND	PCMCIA Power Interface Switch	20-HTSSOP	1.78	1.42	1.07
TPS2211IDBR	296-3461-2-ND	PCMCIA Power Interface Switch	16-SSOP	3520.00/2,000		
TPS2212IDB	296-2247-5-ND	Single PCMCIA Power Switch	16-SSOP	3.26	2.61	2.03
TPS2214ADB	296-2248-5-ND	Dual PCMCIA Power Switch	24-SSOP	5.42	4.34	3.66
TPS2214DB	296-2249-5-ND	Dual PCMCIA Power Switch	24-SSOP	5.60	4.48	3.78
TPS2216ADAP	296-2250-5-ND	Dual PCMCIA Power Switch	32-HTSSOP	5.52	4.42	3.73
TPS2216ADB	296-2251-5-ND	Dual PCMCIA Power Switch	30-SSOP	5.52	4.42	3.73
TPS2216DB	296-2252-5-ND	Dual PCMCIA Power Switch	30-SSOP	6.36	5.09	4.30
TPS2216DAP	296-3462-5-ND	PCMCIA Power Switch Serial Interface	32-HTSSOP	6.36	5.09	4.30
TPS2220ADB	296-18938-5-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-SSOP	2.03	1.62	1.22
TPS2220BDB	296-17773-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-SSOP	1.78	1.42	1.07
TPS2220BPWP	296-17774-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-HTSSOP	1.78	1.42	1.07
TPS2220APWP	296-15136-5-ND	Cardbus Power Interface Switch for Serial PCMCIA Controller	24-HTSSOP	2.03	1.62	1.22
TPS2221PWP	296-13747-5-ND	Single PC Card Power Interface Switch for PCMCIA Controllers	14-HTSSOP	4.16	3.33	2.59
TPS2223ADB	296-13015-5-ND	Dual-Slot CardBus Interface Switches	24-SSOP	3.85	3.08	2.40
TPS2223APWP	296-13016-5-ND	Dual-Slot CardBus Interface Switches	24-HTSSOP	3.85	3.08	2.40
TPS2223DB	296-12387-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-SSOP	4.16	3.33	2.59
TPS2223PWP	296-12388-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-HTSSOP	4.16	3.33	2.59
TPS2224ADB	296-13017-5-ND	Dual-Slot CardBus Interface Switch	24-SSOP	4.16	3.33	2.59
TPS2224APWP	296-13018-5-ND	Dual-Slot CardBus Interface Switch	24-HTSSOP	4.16	3.33	2.59
TPS2224DB	296-12389-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-SSOP	4.59	3.68	2.86
TPS2224PWP	296-12390-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	24-HTSSOP	4.59	3.68	2.86
TPS2226ADB	296-13019-5-ND	Dual-Slot CardBus Interface Switch	30-SSOP	4.50	3.60	2.80
TPS2226DB	296-12391-5-ND	1A Dual-Slot PC Card Power Switch with Serial Interface	30-SSOP	5.02	4.02	3.13
TPS2228DB	296-13748-5-ND	Dual PC Card Power Interface Switch for PCMCIA Controllers	30-SSOP	6.40	5.12	4.32
TPS2228PWP	296-13749-5-ND	Dual PC Card Power Interface Switch for PCMCIA Controllers	20-HTSSOP	6.20	4.96	4.19
TPS2231EVM	296-17281-ND	Evaluation Module for TPS2231	—	62.78	—	—
TPS2231PWP	296-17239-ND	ExpressCard™ Power Interface Switch	24-HTSSOP	2.10	1.68	1.26
TPS2231RGPT	296-18035-1-ND	ExpressCard™ Power Interface Switch	20-QFN	2.30	1.84	1.38
TPS2231RGPT	296-18035-2-ND	ExpressCard™ Power Interface Switch	20-QFN	322.00/250		
TPS2236DAP	296-17591-5-ND	Dual ExpressCard™ Power Interface Switch	24-HTSSOP	2.99	2.40	1.87
TPS2350EVM	296-18940-ND	Evaluation Module for TPS2350	—	62.78	—	—
TPS2383BPM	296-18303-ND	Octal Power Sourcing Equipment Power Manager	64-LQFP	12.25	11.03	9.78
TPS2383PM	296-15138-ND	Octal Power Sourcing Equipment Power Manager	64-LQFP	12.25	11.03	9.78
TPS2400DBVR	296-17744-1-ND	Overvoltage Protection Controller	SOT-23-5	2.00	1.60	1.20
TPS2400DBVR	296-17744-2-ND	Overvoltage Protection Controller	SOT-23-5	3072.00/3,000		
TPS2400DBVT	296-17226-1-ND	Overvoltage Protection Controller	SOT-23-5	2.00	1.60	1.20
TPS2400DBVT	296-17226-2-ND	Overvoltage Protection Controller	SOT-23-5	280.00/250		
TPS54974PWP	296-15140-5-ND	Dual Input Bus 9A Output Sync. Buck PWM Switcher with Integrated FETs	28-HTSSOP	8.40	6.72	5.67
UC37131D	296-11248-5-ND	Low Side Smart Power Switch	8-SOIC	4.84	3.87	3.01
UC37132D	296-11249-5-ND	High/Low Side Smart Power Switch	16-SOIC	5.40	4.32	3.36
UC37132N	296-11250-5-ND	High/Low Side Smart Power Switch	14-Dip	5.40	4.32	3.36
UC37133D	296-11251-5-ND	High Side Smart Power Switch	8-SOIC	4.84	3.87	3.01
UC37133N	296-11252-5-ND	High Side Smart Power Switch	8-Dip	4.84	3.87	3.01

PWM Controllers

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DRV101FKTWT	296-15963-1-ND	PWM Solenoid/Valve Driver	7-DDPAK	7.70	6.16	—
DRV101FKTWT	296-15963-2-ND	PWM Solenoid/Valve Driver	7-DDPAK	259.90/50		
DRV101T	DRV101T-ND	PWM Solenoid/Valve Driver	7-TO-220	7.70	6.16	5.20
DRV102FKTWT	296-15964-1-ND	PWM Solenoid/Valve Driver	7-DDPAK	7.70	6.16	—
DRV102FKTWT	296-15964-2-ND	PWM Solenoid/Valve Driver	7-DDPAK	259.90/50		
DRV102T	DRV102T-ND	PWM Solenoid/Valve Driver	TO-220-7	7.70	6.16	5.20
DRV103H	DRV103H-ND	Low Side DMOS Power Switch PWM Out	8-SOP	4.16	3.33	2.59
DRV103H/2K5	DRV103H/2K5CT-ND	Low Side DMOS Power Switch PWM Out	8-HSOP	4.16	3.33	2.59
DRV103H/2K5	DRV103H/2K5TR-ND	Low Side DMOS Power Switch PWM Out	8-HSOP	5827.50/2,500		
DRV103U	296-11622-ND	PWM Low Side Driver	8-SOIC	3.60	2.88	2.24
DRV104PWPR	296-15746-1-ND	1.2A High Side PWM Driver	14-HTSSOP	3.60	2.88	2.24
DRV104PWPR	296-15746-2-ND	1.2A High Side PWM Driver	14-HTSSOP	4080.00/2,000		
DRV590DWP	296-12201-5-ND	1.2A High Efficiency PWM Power Driver	20-SOIC	12.16	10.95	9.71
DRV590GQCR	296-18430-1-ND	1.2A High Efficiency PWM Power Driver	48-VFBGA	12.66	11.40	10.11
DRV590GQCR	296-18430-2-ND	1.2A High Efficiency PWM Power Driver	48-VFBGA	23085.00/2,500		
DRV591VFP	296-12430-ND	High Efficiency PWM Power Driver	32-HLQFP	10.50	9.45	8.38
DRV592VFP	296-12550-ND	High Efficiency PWM Power Driver	32-HLQFP	18.75	17.50	16.25
DRV593VFPR	296-13643-1-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	9.83	8.85	7.85
DRV593VFPR	296-13643-2-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	7287.00/1,000		
DRV594VFPR	296-13644-1-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	9.83	8.85	7.85
DRV594VFPR	296-13644-2-ND	±3A High Efficiency PWM Power Driver	32-HLQFP	7287.00/1,000		
DRV1100P	DRV1100P-ND	High Power Differential Driver Amp	8-Dip	6.30	5.04	4.26
DRV1100U	DRV1100U-ND	High Power Differential Driver Amp	8-SOIC	6.30	5.04	4.26
DRV1101U	DRV1101U-ND	High Power Differential Line Driver	8-SOIC	6.30	5.04	4.26
DRV1101U/2K5	DRV1101UTR-ND	High Power Differential Line Driver	8-SOIC	9920.00/2,500		
SG2524DR	296-12552-1-ND	PWM Controller with Shutdown	16-SOIC	.84	.70	.56
SG2524DR	296-12552-2-ND	PWM Controller with Shutdown	16-SOIC	910.00/2,500		
SG2524N	296-9685-5-ND	PWM Controller with Shutdown	16-Dip	.84	.70	.56
SG3524D	296-9686-5-ND	Regulating PWM	16-SOIC	.84	.70	.56
SG3524N	296-9687-5-ND	Regulating PWM	16-Dip	.84	.70	.56
SN74TVC3010DBQR	296-9891-1-ND	10-Bit Programmable Volt. Clamp	24-SSOP	1.63	1.30	.98
SN74TVC3010DBQR	296-9891-2-ND	10-Bit Programmable Volt. Clamp	24-SSOP	2080.00/2,500		

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★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SN74TVC3010DGVR	296-9892-1-ND	10-Bit Programmable Volt. Clamp	24-TVSOP	1.38	1.10	.83
SN74TVC3010DGVR	296-9892-2-ND	10-Bit Programmable Volt. Clamp	24-TVSOP	1430.00/2,000		
SN74TVC3010PWR	296-9893-1-ND	10-Bit Programmable Volt. Clamp	24-TSSOP	1.38	1.10	.83
SN74TVC3010PWR	296-9893-2-ND	10-Bit Programmable Volt. Clamp	24-TSSOP	1430.00/2,000		
SN74TVC3306DCTR	296-13307-1-ND	Dual Voltage Clamp	8-SSOP	1.38	1.10	.83
SN74TVC3306DCTR	296-13307-2-ND	Dual Voltage Clamp	8-SSOP	2112.00/3,000		
SN74TVC3306DCUR	296-13308-1-ND	Dual Voltage Clamp	8-VSSOP	1.38	1.10	.83
SN74TVC3306DCUR	296-13308-2-ND	Dual Voltage Clamp	8-VSSOP	2112.00/3,000		
SN74TVC16222ADGGR	296-9888-1-ND	22-Bit Programmable Volt. Clamp	48-TSSOP	2.08	1.66	1.25
SN74TVC16222ADGGR	296-9888-2-ND	22-Bit Programmable Volt. Clamp	48-TSSOP	2158.00/2,000		
SN74TVC16222ADGVR	296-9889-1-ND	22-Bit Programmable Volt. Clamp	48-TVSOP	2.08	1.66	1.25
SN74TVC16222ADGVR	296-9889-2-ND	22-Bit Programmable Volt. Clamp	48-TVSOP	2158.00/2,000		
SN74TVC16222ADLR	296-9890-1-ND	22-Bit Programmable Volt. Clamp	48-SSOP	2.08	1.66	1.25
SN74TVC16222ADLR	296-9890-2-ND	22-Bit Programmable Volt. Clamp	48-SSOP	1079.00/1,000		
TL494CD	296-1293-5-ND	PWM Controller	16-SOIC	.52	.39	.30
TL494CDR	296-1293-1-ND	PWM Controller	16-SOIC	.52	.39	.30
TL494CDR	296-1293-2-ND	PWM Controller	16-SOIC	422.50/2,500		
TL494CN	296-1799-5-ND	PWM Controller	16-Dip	.52	.39	.30
TL494CNSR	296-10191-1-ND	PWM Controller	16-SOP	.52	.39	.30
TL494CNSR	296-10191-2-ND	PWM Controller	16-SOP	346.00/2,000		
TL494CPWR	296-10192-1-ND	PWM Controller	16-TSSOP	.60	.45	.34
TL494CPWR	296-10192-2-ND	PWM Controller	16-TSSOP	400.00/2,000		
TL494ID	296-10193-5-ND	PWM Control Circuit	16-SOIC	.76	.57	.43
TL494IN	296-10194-5-ND	PWM Controller	16-Dip	.76	.57	.43
TL499ACPSR	296-17592-1-ND	Wide Range Power Supply Controller	8-SOIC	1.25	1.00	.75
TL499ACPSR	296-17592-2-ND	Wide Range Power Supply Controller	8-SOIC	1300.00/2,000		
TL594CD	296-10220-5-ND	PWM Control Circuit	16-SOIC	.96	.72	.54
TL594CDR	296-15012-1-ND	PWM Control Circuit	16-SOIC	.96	.72	.54
TL594CDR	296-15012-2-ND	PWM Control Circuit	16-SOIC	780.00/2,500		
TL594CN	296-10221-5-ND	PWM Control Circuit	16-Dip	.84	.63	.48
TL594CPWR	296-18890-1-ND	PWM Control Circuit	16-TSSOP	.84	.63	.48
TL594CPWR	296-18890-2-ND	PWM Control Circuit	16-TSSOP	558.00/2,000		
TL598CD	296-10225-5-ND	PWM Controller	16-SOIC	1.35	1.13	.90
TL598CN	296-10226-5-ND	PWM Controller	16-Dip	1.35	1.13	.90
TL712CDR	296-15013-1-ND	Differential Comparator	8-SOIC	1.38	1.15	.92
TL712CDR	296-15013-2-ND	Differential Comparator	8-SOIC	1495.00/2,500		
TL1451ACD	296-13350-5-ND	Dual Channel PWM Controller	16-SOIC	2.25	1.80	1.35
TL1451ACDBR	296-10133-1-ND	Dual Channel PWM Controller	16-SSOP	2.25	1.80	1.35
TL1451ACDBR	296-10133-2-ND	Dual Channel PWM Controller	16-SSOP	2340.00/2,000		
TL1451ACN	296-12197-5-ND	Dual Channel PWM Controller	16-Dip	2.25	1.80	1.35
TL1451ACNSR	296-10134-1-ND	Dual Channel PWM Controller	16-SOIC	2.25	1.80	1.35
TL1451ACNSR	296-10134-2-ND	Dual Channel PWM Controller	16-SOIC	2340.00/2,000		
TL1451ACPWR	296-10135-1-ND	Dual Channel PWM Controller	16-TSSOP	2.25	1.80	1.35
TL1451ACPWR	296-10135-2-ND	Dual Channel PWM Controller	16-TSSOP	2340.00/2,000		
TL1451AMDREP	296-19511-1-ND	Dual Channel PWM Controller ***NEW!***	16-SOIC	4.55	3.64	2.83
TL1451AMDREP	296-19511-2-ND	Dual Channel PWM Controller ***NEW!***	16-SOIC	6362.50/2,500		
TL1451AQD	296-10137-5-ND	Dual Channel PWM Controller	16-SOIC	2.36	1.89	1.47
TL1451AQPWRQ1	296-18659-1-ND	Dual Channel PWM Controller	16-TSSOP	2.38	1.91	1.49
TL1451AQPWRQ1	296-18659-2-ND	Dual Channel PWM Controller	16-TSSOP	2698.00/2,000		
TL1453CD	296-10138-5-ND	Dual Channel PWM Controller	16-SOIC	2.25	1.80	1.35
TL1453CN	296-10139-5-ND	Dual Channel PWM Controller	16-Dip	2.25	1.80	1.35
TL1454ACD	296-13792-5-ND	Dual Channel PWM Control Circuit	16-SOIC	2.25	1.80	1.40
TL1454ACDBR	296-13793-1-ND	Dual Channel PWM Control Circuit	16-SSOP	2.50	2.00	1.50
TL1454ACDBR	296-13793-2-ND	Dual Channel PWM Control Circuit	16-SSOP	2550.00/2,000		
TL1454ACN	296-13794-5-ND	Dual Channel PWM Control Circuit	16-Dip	2.25	1.80	1.40
TL1454ACNSR	296-13795-1-ND	Dual Channel PWM Control Circuit	16-SOP	2.50	2.00	1.50
TL1454ACNSR	296-13795-2-ND	Dual Channel PWM Control Circuit	16-SOP	2550.00/2,000		
TL1454ACPWR	296-13796-1-ND	Dual Channel PWM Control Circuit	16-TSSOP	2.50	2.00	1.50
TL1454ACPWR	296-13796-2-ND	Dual Channel PWM Control Circuit	16-TSSOP	2550.00/2,000		
TL2842DR-8	296-12998-1-ND	Current-Mode PWM Controller	8-SOP	.75	.63	.50
TL2842DR-8	296-12998-2-ND	Current-Mode PWM Controller	8-SOP	812.50/2,500		
TL2842P	296-16646-5-ND	Current-Mode PWM Controller	8-Dip	.75	.63	.50
TL2843D	296-1977-5-ND	Current-Mode PWM Controller	14-SOIC	.75	.63	.50
TL2843DR	296-17541-1-ND	Current-Mode PWM Controller	14-SOIC	.75	.63	.50
TL2843DR	296-17541-2-ND	Current-Mode PWM Controller	14-SOIC	812.50/2,500		
TL2843DR-8	296-10164-1-ND	Current-Mode PWM Controller	8-SOIC	.75	.63	.50
TL2843DR-8	296-10164-2-ND	Current-Mode PWM Controller	8-SOIC	812.50/2,500		
TL2844DR	296-1367-1-ND	Current-Mode PWM Controller	14-SOIC	.75	.63	.50
TL2844DR-8	296-10165-1-ND	Current-Mode PWM Controller	8-SOIC	.75	.63	.50
TL2844DR-8	296-10165-2-ND	Current-Mode PWM Controller	8-SOIC	812.50/2,500		
TL2844P	296-16647-5-ND	Current-Mode PWM Controller	8-Dip	.75	.63	.50
TL2845DR-8	296-10166-1-ND	Current-Mode PWM Controller	8-SOIC	.75	.63	.50
TL2845DR-8	296-10166-2-ND	Current-Mode PWM Controller	8-SOIC	812.50/2,500		
TL3842DR-8	296-10173-1-ND	Current-Mode PWM Controller	8-SOIC	.88	.66	.50
TL3842DR-8	296-10173-2-ND	Current-Mode PWM Controller	8-SOIC	715.00/2,500		
TL3842P	296-10174-5-ND	Current-Mode PWM Controller	8-Dip	.88	.66	.50
TL3843DR	296-15010-1-ND	Current-Mode PWM Controller	14-SOIC	.88	.66	.50
TL3843DR	296-15010-2-ND	Current-Mode PWM Controller	14-SOIC	715.00/2,500		
TL3843DR-8	296-10175-1-ND	Current-Mode PWM Controller	8-SOIC	.88	.66	.50
TL3843DR-8	296-10175-2-ND	Current-Mode PWM Controller	8-SOIC	715.00/2,500		
TL3843P	296-10176-5-ND	Current-Mode PWM Controller	8-Dip	.88	.66	.50
TL3844DR-8	296-10177-1-ND	Current-Mode PWM Controller	8-SOIC	.88	.66	.50
TL3844DR-8	296-10177-2-ND	Current-Mode PWM Controller	8-SOIC	715.00/2,500		
TL3844P	296-10178-5-ND	Current-Mode PWM Controller	8-Dip	.88	.66	.50
TL3845DR	296-15011-1-ND	Current-Mode PWM Controller	14-SOIC	.88	.66	.50
TL3845DR	296-15011-2-ND	Current-Mode PWM Controller	14-SOIC	715.00/2,500		
TL3845DR-8	296-10179-1-ND	Current-Mode PWM Controller	8-SOIC	.88	.66	.50
TL3845DR-8	296-10179-2-ND	Current-Mode PWM Controller	8-SOIC	715.00/2,500		
TL3845P	296-10180-5-ND	Current-Mode PWM Controller	8-Dip	.88	.66	.50
TL5001ACD	296-2472-5-ND	PWM Controller Circuit	8-SOIC	1.30	1.04	.78
TL5001ACDR	296-2472-1-ND	PWM Cont. w/Wide Input Volt Range	8-SOIC	1.56	1.30	1.04
TL5001ACDR	296-2472-2-ND	PWM Cont. w/Wide Input Volt Range	8-SOIC	1665.00/2,500		
TL5001AIP	296-10203-5-ND	PWM Cont. w/Wide Input Volt Range	8-Dip	1.30	1.04	.78
TL5001AQDR	296-16812-1-ND	PWM Cont. w/Wide Input Volt Range	8-SOIC	1.55	1.24	.93
TL5001AQDR	296-16812-2-ND	PWM Cont. w/Wide Input Volt Range	8-SOIC	1985.00/2,500		
TL5001CDR	296-1294-1-ND	PWM Controller	8-SOIC	1.29	1.08	.86
TL5001CDR	296-1294-2-ND	PWM Controller	8-SOIC	1397.50/2,500		
TL5001CP	296-10205-5-ND	PWM Cont. w/Wide Input Volt Range	8-Dip	1.29	1.08	.86
TL5001CPSR	296-10206-1-ND	PWM Cont. w/Wide Input Volt Range	8-SOP	1.29	1.08	.86
TL5001CPSR	296-10206-2-ND	PWM Cont. w/Wide Input Volt Range	8-SOP	1144.00/2,000		
TL5001ID	296-10214-5-ND	PWM Cont. w/Wide Input Volt Range	8-SOIC	1.29	1.08	.86
TL5001QD	296-10215-5-ND	PWM Cont. w/Wide Input Volt Range	8-SOIC	1.44	1.20	.96
TL5002CDR	296-10216-1-ND	PWM Controller	8-SOP	1.68	1.34	1.01
TL5002CDR	296-10216-2-ND	PWM Controller	8-SOP	2145.00/2,500		
TLC2932AIPW	296-19331-5-ND	High Performance PLL ***NEW!***	14-TSOP	3.38	2.70	2.10
TLC2932IPWR	296-10262-1-ND	High Performance PLL	14-TSSOP	2.88	2.31	1.80
TLC2932IPWR	296-10262-2-ND	High Performance PLL	14-TSSOP	3264.00/2,000		
TLC2933AIPW	296-19332-5-ND	High Performance PLL ***NEW!***	14-TSOP	3.38	2.70	2.10
TLC2933IPW	296-11907-5-ND	High Performance PLL	14-TSSOP	2.88	2.31	1.80
TLC2934IPWR	296-10263-1-ND	HP Single Phase Locked Loop	14-TSSOP	2.77	2.22	1.73
TLC2934IPWR	296-10263-2-ND	HP Single Phase Locked Loop	14-TSSOP	3136.00/2,000		
TLC5941PWP	296-18617-5-ND	16-Ch., LED Driver with Dot Correction and Grayscale PWM Control	28-HTSSOP	3.71	2.97	2.31
TLC5941RHB	296-18618-ND	16-Ch., LED Driver with Dot Correction and Grayscale PWM Control	32-QFN	3.71	2.97	2.31
TPS5100IPW	296-2474-5-ND	3-Channel PWM Controller	16-TSSOP	2.93	2.34	1.82
TPS43000PW	296-12403-5-ND	Hi-Freq. Sync. PWM Controller	16-TSSOP	4.73	3.78	2.94
TPS54372PWP	296-13055-5-ND	3A Output Sync. PWM Switcher	20-HTSSOP	5.29	4.23	3.29
TPS54616PWPR	296-12288-1-ND	Sync.-Buck PWM Converter	28-HTSSOP	6.70	5.36	4.53
TPS54616PWPR	296-12288-2-ND	Sync.-Buck PWM Converter	28-HTSSOP	8376.00/2,000		
TPS54910PWP	296-13409-5-ND	3V-4V In, 9A Out, Sync. PWM Switcher w/Integrated FETs (SWIFT™)	28-HTSSOP	8.40	6.72	5.67
TPS56100PWP	296-2475-5-ND	DSP Power Supply Controller	28-HTSSOP	7.40	5.92	5.00
TPS56300PWP	296-2476-5-ND	DSP Supply Controller	28-HTSSOP	8.70	6.96	5.88
TPS56302PWP	296-2477-5-ND	Dual DSP Supply Controller	28-HTSSOP	8.70	6.96	5.88
UC1842AMDREP	296-18181-1-ND	Current-Mode PWM Controller	8-SOIC	4.57	3.66	2.85
UC1842AMDREP	296-18181-2-ND	Current-Mode PWM Controller	8-SOIC	6395.00/2,500		
UC2524ADW	296-11151-5-ND	Advanced Regulating PWM	16-SOIC	4.28	3.42	2.66
UC2524AN	296-11152-5-ND	Advanced Regulating PWM	16-Dip	4.28	3.42	2.66
UC2525ADW	296-11153-5-ND	Regulating PWM	16-SOIC	3.96	3.17	2.47
UC2525AN	296-11154-5-ND	Regulating PWM	16-Dip	4.70	3.77	2.93
UC2525BDW	296-2479-5-ND	Regulating PWM	16-SOIC	5.98	4.79	4.04
UC2526ADW	296-11155-5-ND	Regulating PWM	18-SOIC	3.42	2.74	2.13
UC2526AN	296-11156-5-ND	Regulating PWM	18-Dip	3.42	2.74	2.13
UC2572D	296-2480-5-ND	Negative Output Flyback PWM	8-SOIC	2.70	2.16	1.68
UC2572N	296-11157-5-ND	Negative Output Flyback PWM	8-Dip	2.70	2.16	1.68
UC2573N	296-11158-5-ND	Buck PWM Voltage Supply Regulator	8-Dip	2.70	2.16	1.68
UC2625DW	296-11162-5-ND	Brushless DC Motor Controller	28-SOIC	9.16	8.25	7.32
UC2637DW	296-2481-5-ND	DC Motor Switch-Mode Controller	20-SOIC	7.10	5.68	4.80
UC2637N	296-11163-5-ND	DC Motor Switch-Mode Controller	18-Dip	7.10	5.68	4.80
UC2638DW	296-2482-5-ND	PWM Motor Controller	20-SOIC	7.50	6.00	5.07
UC2705D	296-2484-5-ND	High Speed Power Driver	8-SOIC	5.10	4.08	3.45
UC2705N	296-11164-5-ND	High Speed Power Driver	8-Dip	5.10	4.08	3.45
UC2706DW	296-2485-5-ND	Dual Output Driver	16-SOIC	6.20	4.96	4.19
UC2707DW	296-2486-5-ND	Dual Channel Power Driver	16-SOIC	6.10	4.88	4.12
UC2707N	296-11165-5-ND	Dual Channel Power Driver	16-Dip	6.10	4.88	4.12
UC2708DW	296-2487-5-ND	Dual Non-Inverting Power Driver	16-SOIC	7.50	6.00	5.07
UC2823ADW	296-2488-5-ND	High Speed PWM Controller	16-SOIC	9.00	8.10	7.19
UC2823AN	296-11166-5-ND	High Speed PWM Controller	16-Dip	9.00	8.10	7.19
UC2823BDW	296-2489-5-ND	High Speed PWM Controller	16-SOIC	10.25	9.23	8.18
UC2823N	296-11167-5-ND	High Speed PWM Controller	16-Dip	3.65	2.92	2.27
UC2824DW	296-15145-5-ND	High Speed PWM Controller	16-SOIC	9.91	8.93	7.92
UC2825ADW	296-2490-5-ND	High Speed PWM Controller	16-SOIC	5.60	4.48	3.78
UC2825AN	296-11168-5-ND	High Speed PWM Controller	16-Dip	5.60	4.48	3.78
UC2825AQDWREP	296-19565-1-ND	High Speed PWM Controller ***NEW!***	16-SOIC	11.66	10.50	9.31
UC2825AQDWREP	296-19565-2-ND	High Speed PWM Controller ***NEW!***	16-SOIC	17290.00/2,000		
UC2825BDW	296-2491-5-ND	High Speed PWM Controller	16-SOIC	9.00	8.10	7.19
UC2825BN	296-11169-5-ND	High Speed PWM Controller	16-Dip	9.00	8.10	7.19
UC2825DW	296-11170-5-ND	High Speed PWM Controller	16-SOIC	3.65	2.92	2.27
UC2825N	296-11171-5-ND	High Speed PWM Controller	16-Dip	3.65	2.92	2.27
UC2827DW-1	296-2492-5-ND	Current Fed PWM Controller	24-SOIC	7.40	5.92	5.00
UC2827DW-2	296-2493-5-ND	Voltage Fed PWM Controller	24-SOIC	7.40	5.92	5.00
UC2834N	296-11172-5-ND	High-Efficiency Regulator Controller	16-Dip	11.41	10.28	9.12
UC2842AD	296-11173-5-ND	Current-Mode PWM Controller	14-SOIC	2.15	1.72	1.29
UC2842AD8	296-11174-5-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2842AN	296-11175-5-ND	Current-Mode PWM Controller	8-Dip	2.15	1.72	1.29
UC2842AQDR	296-15197-1-ND	Current-Mode PWM Controller	14-SOIC	2.15	1.72	1.29
UC2842AQDR	296-15197-2-ND	Current-Mode PWM Controller	14-SOIC	2752.50/2,500		
UC2842AQD8R	296-15196-1-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2842AQD8R	296-15196-2-ND	Current-Mode PWM Controller	8-SOIC	2752.50/2,500		
UC2842N	296-11176-5-ND	Current-Mode PWM Controller	8-Dip	2.25	1.80	1.35
UC2843AD	296-11177-5-ND	Current-Mode PWM Controller	14-SOIC	2.15	1.72	1.29
UC2843AD8	296-11178-5-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2843AN	296-11179-5-ND	Current-Mode PWM Controller	8-Dip	2.15	1.72	1.29
UC2843AQDR	296-15201-1-ND	Current-Mode PWM Controller	14-SOIC	2.15	1.72	1.29
UC2843AQDR	296-15201-2-ND	Current-Mode PWM Controller	14-SOIC	2752.50/2,500		
UC2843AQD8R	296-15200-1-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2843AQD8R	296-15200-2-ND	Current-Mode PWM Controller	8-SOIC	2752.50/2,500		
UC2843D8	296-11180-5-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2843N	296-11181-5-ND	Current-Mode PWM Controller	8-Dip	2.15	1.72	1.29
UC2844AD	296-11182-5-ND	Current-Mode PWM Controller	14-SOIC	2.15	1.72	1.29
UC2844AN	296-11183-5-ND	Current-Mode PWM Controller	8-Dip	2.15	1.72	1.29
UC2844AQD	296-15681-5-ND	Current-Mode PWM Controller	14-SOIC	2.30	1.84	1.38
UC2844AQD8	296-15682-5-ND	Current-Mode PWM Controller	8-SOIC	2.30	1.84	1.38
UC2844AQD8R	296-15683-1-ND	Current-Mode PWM Controller	8-SOIC	2.25	1.80	1.40
UC2844AQD8R	296-15683-2-ND	Current-Mode PWM Controller	8-SOIC	3150.00/2,500		
UC2844AQDR	296-15684-1-ND	Current-Mode PWM Controller	14-SOIC	2.25	1.80	1.40
UC2844AQDR	296-15684-2-ND	Current-Mode PWM Controller	14-SOIC	3150.00/2,500		
UC2844D8	296-11184-5-ND	Current-Mode PWM Controller	8-SOIC	2.15	1.72	1.29
UC2845AD	296-11185-5-ND	Current-Mode PWM Controller	14-SOIC	2.25	1.80	1.40
UC2845AD8	296-11186-5-ND	Current-Mode PWM Controller	8-SOIC	2.25	1.80	1.40
UC2845AN	296-11187-5-ND	Current-Mode PWM Controller	8-Dip	2.25	1.80	1.40
UC2845AQDR	296-15205-1-ND	Current-Mode PWM Controller	14-SOIC	2.40	1.92	1.44
UC2845AQDR	296-15205-2-ND	Current-Mode PWM Controller	14-SOIC	3072.50/2,500		
UC2845AQD8R	296-15204-1-ND	Current-Mode PWM Controller	8-SOIC	2.79	2.24	1.74
UC2845AQD8R	296-15204-2-ND	Current-Mode PWM Controller	8-SOIC	3905.00/2,500		
UC2845N	296-11188-5-ND	Current-Mode PWM Controller	8-Dip	2.45	1.97	1.53
UC2846DW	296-11189-5-ND	Current-Mode PWM Controller	16-SOIC	3.83	3.06	2.38
UC2846N	296-11190-5-ND	Current-Mode PWM Controller	16-Dip	3.83	3.06	2.38
UC2849DW	296-2494-5-ND	Secondary-Side Current-Mode Controller	24-SOIC	7.10	5.68	4.80
UC2849DWTR	296-14446-1-ND	Secondary-Side Current-Mode Controller	24-SOIC	7.10	5.68	4.80
UC2849DWTR	296-14446-2-ND	Secondary-Side Current-Mode Controller	24-SOIC	4438.00/1,000		

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UC2849N	296-11191-5-ND	Secondary-Side Current-Mode Controller	24-Dip	7.10	5.68	4.80
UC2851N	296-11192-5-ND	Prog. Off-Line PWM Controller	18-Dip	10.33	9.30	8.25
UC2853AD	296-19434-ND	High Power Factor Pre-Reg. ***NEW!***	8-SOIC	2.48	1.98	1.49
UC2853AN	296-19435-ND	High Power Factor Pre-Reg. ***NEW!***	8-Dip	2.48	1.98	1.49
UC2853N	296-11193-5-ND	High Power Factor Pre-Regulator	8-Dip	2.70	2.16	1.68
UC2854ADW	296-2495-5-ND	Power Factor Pre-Regulator	16-SOIC	3.49	2.79	2.17
UC2854BDW	296-2496-5-ND	Power Factor Pre-Regulator	16-SOIC	3.49	2.79	2.17
UC2854BN	296-11194-5-ND	Power Factor Pre-Regulator	16-Dip	3.49	2.79	2.17
UC2854DW	296-11195-5-ND	Power Factor Pre-Regulator	16-SOIC	3.15	2.52	1.96
UC2855ADW	296-2497-5-ND	Power Factor Pre-Regulator	20-SOIC	11.41	10.28	9.12
UC2855BDW	296-2498-5-ND	Power Factor Pre-Regulator	20-SOIC	11.41	10.28	9.12
UC2855BN	296-11196-5-ND	Power Factor Pre-Regulator	20-Dip	11.41	10.28	9.12
UC2856DW	296-11197-5-ND	Improved Current-Mode PWM Controller	16-SOIC	4.05	3.24	2.52
UC2856N	296-11198-5-ND	Improved Current-Mode PWM Controller	16-Dip	4.05	3.24	2.52
UC2861DW	296-14061-5-ND	Resonant-Mode Power Supply Controller	16-SOIC	5.40	4.32	3.36
UC2864DW	296-11199-5-ND	Power Supply Controller	16-SOIC	5.40	4.32	3.36
UC2866N	296-15348-5-ND	Resonant-Mode Power Supply Controller	16-Dip	5.40	4.32	3.36
UC2872DW	296-11200-5-ND	Lamp Ballast Controller	16-SOIC	8.40	6.72	5.67
UC2875N	296-11201-5-ND	Phase Shift PWM Controller	20-Dip	8.91	8.03	7.12
UC2879DW	296-11202-5-ND	Phase Shift PWM Controller	20-SOIC	8.10	6.48	5.47
UC2879N	296-11203-5-ND	Phase Shift PWM Controller	20-Dip	8.10	6.48	5.47
UC2901D	296-11204-5-ND	Isolated FB Generator	14-SOIC	5.60	4.48	3.78
UC2901N	296-11205-5-ND	Isolated FB Generator	14-Dip	5.60	4.48	3.78
UC2901Q	296-11206-5-ND	Isolated FB Generator	20-PLCC	5.60	4.48	3.78
UC2903N	296-11207-5-ND	Supply/Line Monitor	18-Dip	5.51	4.41	3.43
UC2906N	296-11208-5-ND	Lead Acid Charge Management	16-Dip	5.50	4.40	3.72
UC2907DW	296-2499-5-ND	Load Share Controller	16-SOIC	5.00	4.00	3.38
UC3524ADW	296-11211-5-ND	Advanced Regulating PWM	16-SOIC	3.65	2.92	2.27
UC3524AN	296-11212-5-ND	Advanced Regulating PWM	16-Dip	3.65	2.92	2.27
UC3524D	296-11213-5-ND	Advanced Regulating PWM	16-SOIC	2.03	1.62	1.22
UC3524N	296-11214-5-ND	Advanced Regulating PWM	16-Dip	2.03	1.62	1.22
UC3525ADW	296-11215-5-ND	Regulating PWM	16-SOIC	2.25	1.80	1.40
UC3525AN	296-11216-5-ND	Regulating PWM	16-Dip	2.25	1.80	1.40
UC3525AQ	296-11217-5-ND	Regulating PWM	20-PLCC	2.25	1.80	1.40
UC3525BDW	296-2503-5-ND	Regulating PWM	16-SOIC	4.82	3.86	3.00
UC3525BN	296-11218-5-ND	Regulating PWM	16-Dip	4.82	3.86	3.00
UC3526ADW	296-11219-5-ND	Regulating PWM	18-SOIC	2.25	1.80	1.40
UC3526AN	296-11220-5-ND	Regulating PWM	18-Dip	2.25	1.80	1.40
UC3526DW	296-11221-5-ND	Regulating PWM	18-SOIC	2.25	1.80	1.40
UC3526N	296-11222-5-ND	Regulating PWM	18-Dip	2.25	1.80	1.40
UC3527AN	296-11223-5-ND	Regulating PWM	16-Dip	3.71	2.97	2.31
UC3527BN	296-2504-5-ND	Regulating PWM	16-Dip	5.00	4.00	3.38
UC3572D	296-2506-5-ND	Negative Output Flyback PWM	8-SOIC	2.36	1.89	1.47
UC3572N	296-11224-5-ND	Negative Output Flyback PWM	8-Dip	2.36	1.89	1.47
UC3573D	296-2507-5-ND	Buck PWM Voltage Supply Regulator	8-SOIC	2.36	1.89	1.47
UC3573N	296-11225-5-ND	Buck PWM Voltage Supply Regulator	8-Dip	2.36	1.89	1.47
UC3578N	296-11227-5-ND	Buck PWM Stepdown Regulator	16-Dip	5.90	4.72	3.99
UC3625DW	296-11235-5-ND	Brushless DC Motor Controller	28-SOIC	8.33	7.50	6.65
UC3625N	296-11236-5-ND	Brushless DC Motor Controller	28-Dip	8.33	7.50	6.65
UC3625Q	296-15064-5-ND	Brushless DC Motor Controller	28-PLCC	8.33	7.50	6.65
UC3637DW	296-2508-5-ND	DC Motor Drive Controller	20-SOIC	6.40	5.12	4.32
UC3637N	296-11237-5-ND	DC Motor Drive Controller	18-Dip	6.40	5.12	4.32
UC3638DW	296-2509-5-ND	PWM Motor Controller	20-SOIC	6.60	5.28	4.46
UC3638N	296-11238-5-ND	PWM Motor Controller	20-Dip	6.60	5.28	4.46
UC3638Q	296-13056-5-ND	Advanced PWM Motor Controller	20-PLCC	6.60	5.28	4.46
UC3705D	296-2511-5-ND	High Speed Power Driver	8-SOIC	5.18	4.14	3.22
UC3705N	296-11240-5-ND	High Speed Power Driver	8-Dip	5.18	4.14	3.22
UC3705T	296-11241-5-ND	High Speed Power Driver	TO-220-5	5.18	4.14	3.22
UC3706DW	296-2512-5-ND	Dual Output Driver	16-SOIC	5.18	4.14	3.22
UC3707DW	296-2513-5-ND	Dual Channel Power Driver	16-SOIC	5.10	4.08	3.45
UC3707N	296-11243-5-ND	Dual Channel Power Driver	16-Dip	5.10	4.08	3.45
UC3708DW	296-2514-5-ND	Dual Non-Inverting Power Driver	16-SOIC	6.20	4.96	4.19
UC3708N	296-12120-5-ND	Dual Non-Inverting Power Driver	8-Dip	6.20	4.96	4.19
UC3708NE	296-11244-5-ND	Dual Non-Inverting Power Driver	16-Dip	6.20	4.96	4.19
UC3823ADW	296-2515-5-ND	High Speed PWM Controller	16-SOIC	9.80	7.84	6.62
UC3823AN	296-11261-5-ND	High Speed PWM Controller	16-Dip	9.80	7.84	6.62
UC3823BN	296-11262-5-ND	High Speed PWM Controller	16-Dip	9.75	8.78	7.79
UC3823DW	296-11263-5-ND	High Speed PWM Controller	16-SOIC	3.42	2.74	2.13
UC3823Q	296-11264-5-ND	High Speed PWM Controller	20-PLCC	3.42	2.74	2.13
UC3823BDW	296-2516-5-ND	High Speed PWM Controller	16-SOIC	9.75	8.78	7.79
UC3824DW	296-11265-5-ND	High Speed PWM Controller	16-SOIC	9.10	7.28	6.15
UC3824N	296-11266-5-ND	High Speed PWM Controller	16-Dip	9.10	7.28	6.15
UC3825ADW	296-2517-5-ND	High Speed PWM Controller	16-SOIC	5.30	4.24	3.58
UC3825AN	296-11267-5-ND	High Speed PWM Controller	16-Dip	5.30	4.24	3.58
UC3825AQ	296-11268-5-ND	High Speed PWM Controller	20-PLCC	5.30	4.24	3.58
UC3825BDW	296-2518-5-ND	High Speed PWM Controller	16-SOIC	8.50	7.65	6.79
UC3825BN	296-11269-5-ND	High Speed PWM Controller	16-Dip	8.50	7.65	6.79
UC3825DW	296-11270-5-ND	High Speed PWM Controller	16-SOIC	3.42	2.74	2.13
UC3825N	296-11271-5-ND	High Speed PWM Controller	16-Dip	3.42	2.74	2.13
UC3827DW-1	296-2519-5-ND	Buck, Current Fed PWM Controller	24-SOIC	7.00	5.60	4.73
UC3827DW-2	296-2520-5-ND	Buck, Voltage Fed PWM Controller	24-SOIC	7.00	5.60	4.73
UC3827N-1	296-2521-5-ND	Buck, Current Fed PWM Controller	24-Dip	7.00	5.60	4.73
UC3827N-2	296-2522-5-ND	Buck, Voltage Fed PWM Controller	24-Dip	7.00	5.60	4.73
UC3834N	296-11275-5-ND	High Efficiency Linear Regulator	16-Dip	9.41	8.48	7.52
UC3835N	296-2523-5-ND	High Efficiency Regulator Controller	8-Dip	6.10	4.88	4.12
UC3836D	296-2524-5-ND	High Efficiency Regulator Controller	8-SOIC	6.80	5.44	4.59
UC3836N	296-11276-5-ND	High Efficiency Regulator Controller	8-Dip	6.80	5.44	4.59
UC3841N	296-11277-5-ND	Prog., Off-Line, PWM Controller	18-Dip	8.60	6.88	5.81
UC3842AD	296-11278-5-ND	Current-Mode PWM Controller	14-SOP	1.90	1.52	1.14
UC3842AD8	296-11279-5-ND	Current-Mode PWM Controller	8-SOP	1.90	1.52	1.14
UC3842ADW	296-13426-5-ND	Current-Mode PWM Controller	16-SOIC	1.90	1.52	1.14
UC3842AN	296-11280-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3842D	296-13427-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3842D8	296-11281-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3842N	296-11282-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3843AD	296-11283-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3843AD8	296-11284-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3843AN	296-11285-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3843D	296-11286-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3843D8	296-11287-5-ND	Current-Mode PWM Controller	8-SOP	1.90	1.52	1.14
UC3843N	296-11288-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3844AD	296-11289-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3844AD8	296-11290-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3844AN	296-11291-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3844D	296-11292-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3844D8	296-11293-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3844N	296-11294-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3845AD	296-11295-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3845AD8	296-11296-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3845AN	296-11297-5-ND	Current-Mode PWM Controller	8-Dip	1.90	1.52	1.14
UC3845D	296-11298-5-ND	Current-Mode PWM Controller	14-SOIC	1.90	1.52	1.14
UC3845D8	296-11299-5-ND	Current-Mode PWM Controller	8-SOIC	1.90	1.52	1.14
UC3846DW	296-11300-5-ND	Current-Mode PWM Controller	16-SOIC	3.60	2.88	2.24
UC3846N	296-11301-5-ND	Current-Mode PWM Controller	16-Dip	3.60	2.88	2.24
UC3847DW	296-11302-5-ND	Current-Mode PWM Controller	16-SOIC	5.70	4.56	3.85
UC3847N	296-11303-5-ND	Current-Mode PWM Controller	16-Dip	5.70	4.56	3.85
UC3848DW	296-11304-5-ND	Avg. Current-Mode PWM Controller	16-SOIC	5.00	4.00	3.38
UC3849DW	296-2525-5-ND	Secondary-Side Current-Mode Controller	24-SOIC	6.10	4.88	4.12
UC3851N	296-11305-5-ND	Prog. Off-Line PWM Controller	18-Dip	9.50	7.60	6.42
UC3852D	296-11306-5-ND	Power Factor Pre-Regulator	8-SOIC	3.83	3.06	2.38
UC3852N	296-11307-5-ND	Power Factor Pre-Regulator	8-Dip	3.83	3.06	2.38
UC3853D	296-11308-5-ND	Power Factor Pre-Regulator	8-SOIC	2.48	1.98	1.49
UC3853N	296-11309-5-ND	Power Factor Pre-Regulator	8-Dip	2.48	1.98	1.49
UC3854ADW	296-2526-5-ND	Power Factor Pre-Regulator	16-SOIC	3.04	2.43	1.89
UC3854AN	296-11310-5-ND	Power Factor Pre-Regulator	16-Dip	3.04	2.43	1.89
UC3854BDW	296-2527-5-ND	Power Factor Pre-Regulator	16-SOIC	3.04	2.43	1.89
UC3854BN	296-11311-5-ND	Power Factor Pre-Regulator	16-Dip	3.04	2.43	1.89
UC3854DW	296-11312-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UC3854N	296-11313-5-ND	Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UC3855ADW	296-2528-5-ND	Power Factor Pre-Regulator	20-SOIC	9.50	8.55	7.59
UC3855AN	296-11314-5-ND	Power Factor Pre-Regulator	20-Dip	9.50	8.55	7.59
UC3855BDW	296-2529-5-ND	Power Factor Pre-Regulator	20-SOIC	9.50	8.55	7.59
UC3855BN	296-11315-5-ND	Power Factor Pre-Regulator	20-Dip	9.50	8.55	7.59
UC3856DW	296-11316-5-ND	Current-Mode PWM Controller	16-SOIC	3.83	3.06	2.38
UC3856N	296-11317-5-ND	Current-Mode PWM Controller	16-Dip	3.83	3.06	2.38
UC3861DW	296-14332-5-ND	Resonant-Mode Power Supply Controller	16-SOIC	4.61	3.69	2.87
UC3861N	296-11318-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3862N	296-11319-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3863N	296-11320-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3864DW	296-11321-5-ND	Resonant-Mode Power Supply Controller	16-SOIC	4.61	3.69	2.87
UC3864N	296-11322-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3865N	296-11323-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3867N	296-11324-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3868N	296-11325-5-ND	Resonant-Mode Power Supply Controller	16-Dip	4.61	3.69	2.87
UC3875DWP	296-11331-5-ND	Phase Shift Resonant Controller	28-SOIC	9.70	7.76	6.55
UC3875N	296-11332-5-ND	Phase Shift Resonant Controller	20-Dip	9.70	7.76	6.55
UC3876N	296-11333-5-ND	Phase Shift Resonant Controller	20-Dip	13.08	11.78	10.45
UC3879DW	296-11334-5-ND	Phase Shift Resonant Controller	20-SOIC	7.40	5.92	5.00
UC3879N	296-11335-5-ND	Phase Shift Resonant Controller	20-Dip	7.40	5.92	5.00
UC3886D	296-11336-5-ND	Current-Mode PWM Controller	16-SOIC	5.10	4.08	3.45
UC3886N	296-11337-5-ND	Current-Mode PWM Controller	16-Dip	5.10	4.08	3.45
UC3902D	296-11340-5-ND	Load Share Controller	8-SOIC	4.16	3.33	2.59
UC3902N	296-11341-5-ND	Load Share Controller	8-Dip	4.16	3.33	2.59
UC3903N	296-11342-5-ND	Quad Supply/Line Monitor	18-Dip	4.73	3.78	2.94
UC3907DW	296-2530-5-ND	Load Share Controller	16-SOIC	4.73	3.78	2.94
UC3907N	296-11344-5-ND	Load Share Controller	16-Dip	4.73	3.78	2.94
UC28023DW	296-15060-5-ND	High Speed PWM Controller	16-SOIC	2.88	2.31	1.80
UC28023N	296-15061-5-ND	High Speed PWM Controller	16-Dip	2.88	2.31	1.80
UC28025DW	296-15062-5-ND	High Speed PWM Controller	16-SOIC	2.88	2.31	1.80
UC28025N	296-15063-5-ND	High Speed PWM Controller	16-Dip	2.88	2.31	1.80
UCC28C40D	296-13429-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13
UCC28C40DGK	296-12570-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C40P	296-12571-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC28C41D	296-13430-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13
UCC28C41DGK	296-12572-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C41P	296-12573-5-ND	UVLO 7.0V/6.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC28C42D	296-13431-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13
UCC28C42DGK	296-12291-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C42P	296-13432-5-ND	UVLO 14.5/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC28C43D	296-13433-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13
UCC28C43DGK	296-12292-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C43P	296-13434-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC28C44D	296-13435-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13
UCC28C44DGK	296-12574-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C44P	296-12575-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC28C45D	296-12576-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.88	1.50	1.13

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UCC28C45DGK	296-12293-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-MSOP	1.88	1.50	1.13
UCC28C45P	296-13436-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.88	1.50	1.13
UCC38C40D	296-13832-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C40DGK	296-13833-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C40P	296-13834-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC38C41D	296-13835-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C41DGK	296-13836-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C41P	296-13837-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC38C42D	296-13838-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C42DGK	296-13839-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C42P	296-13840-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC38C43D	296-12253-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C43DGK	296-13841-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C43P	296-13441-5-ND	UVLO 8.4V/7.6V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC38C44D	296-13842-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C44DGK	296-13843-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C44P	296-13442-5-ND	UVLO 14.5V/9.0V, BiCMOS Low Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC2580D-1	296-11374-5-ND	Single Ended Active Clamp/Reset PWM	16-SOIC	4.73	3.78	2.94
UCC38C45D	296-13844-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-SOIC	1.75	1.40	1.05
UCC38C45DGK	296-13845-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-MSOP	1.75	1.40	1.05
UCC38C45P	296-13846-5-ND	BiCMOS Low-Power Current-Mode PWM Controller	8-Dip	1.75	1.40	1.05
UCC2540EVM-054	296-17270-ND	Evaluation Module for UCC2540	—	62.78	—	—
UCC2580D-2	296-11375-5-ND	Single End Active Clamp/Reset PWM	16-SOIC	4.73	3.78	2.94
UCC2580D-3	296-11376-5-ND	Single End Active Clamp/Reset PWM	16-SOIC	4.73	3.78	2.94
UCC2580D-4	296-11377-5-ND	Single End Active Clamp/Reset PWM	16-SOIC	4.73	3.78	2.94
UCC2580N-1	296-11378-5-ND	Single End Active Clamp/Reset PWM	16-Dip	4.73	3.78	2.94
UCC2580N-2	296-11671-5-ND	Single End Active Clamp/Reset PWM	16-Dip	4.73	3.78	2.94
UCC2580N-3	296-11672-5-ND	Single End ActiveClamp/Reset PWM	16-Dip	4.73	3.78	2.94
UCC2580N-4	296-11673-5-ND	Single End ActiveClamp/Reset PWM	16-Dip	4.73	3.78	2.94
UCC2581D	296-11379-5-ND	Micropower Voltage Mode PWM	14-SOIC	2.59	2.07	1.61
UCC2583D	296-12392-5-ND	Switch Mode Secondary Side Post Regulator	14-SOIC	4.61	3.69	2.87
UCC2583N	296-12115-5-ND	Switch Mode Secondary Side Post Regulator	14-Dip	4.61	3.69	2.87
UCC2800D	296-11380-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2800N	296-11381-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2800QDREP	296-18186-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	6.52	5.22	4.41
UCC2800QDREP	296-18186-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	10105.00/2,500		
UCC2801D	296-11382-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2801N	296-11383-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2801QDREP	296-18187-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	6.52	5.22	4.41
UCC2801QDREP	296-18187-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	10105.00/2,500		
UCC2801QDRQ1	296-15685-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2801QDRQ1	296-15685-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2802D	296-11384-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2802N	296-11385-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2802QDREP	296-18188-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	6.52	5.22	4.41
UCC2802QDREP	296-18188-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	10105.00/2,500		
UCC2802QDRQ1	296-15686-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2802QDRQ1	296-15686-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2803D	296-11386-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2803N	296-11387-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2803QDREP	296-18189-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	6.00	4.80	4.05
UCC2803QDREP	296-18189-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	9300.00/2,500		
UCC2803QDRQ1	296-15687-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2803QDRQ1	296-15687-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2804D	296-11388-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2804N	296-11389-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2804QDREP	296-18190-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	6.00	4.80	4.05
UCC2804QDREP	296-18190-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	9300.00/2,500		
UCC2804QDRQ1	296-15688-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2804QDRQ1	296-15688-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2805D	296-11390-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4.05	3.24	2.52
UCC2805N	296-11675-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	4.05	3.24	2.52
UCC2805QDREP	296-18191-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	6.50	5.20	4.39
UCC2805QDREP	296-18191-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	10075.00/2,500		
UCC2805QDRQ1	296-15689-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2805QDRQ1	296-15689-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2805PW	296-13532-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	4.16	3.33	2.59
UCC2806DW	296-11391-5-ND	Low Power, Dual Output, Current-Mode PWM	16-SOIC	9.80	7.84	6.62
UCC2806M	296-11676-5-ND	Low Power, Dual-Output, Current-Mode PWM	16-SSOP	9.80	7.84	6.62
UCC2806PW	296-12393-5-ND	Low Power, Dual Output, Current-Mode PWM Controller	16-TSSOP	9.80	7.84	6.62
UCC2807D-1	296-11393-5-ND	Programmable Duty Cycle PWM	8-SOIC	3.71	2.97	2.31
UCC2807D-2	296-2533-5-ND	Programmable Max-Duty PWM	8-SOIC	3.71	2.97	2.31
UCC2807D-3	296-11678-5-ND	Programmable Max-Duty PWM	8-SOIC	4.61	3.69	2.87
UCC2807N-2	296-11394-5-ND	Programmable Duty Cycle PWM	8-Dip	3.71	2.97	2.31
UCC2808AD-1	296-11395-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.04	2.43	1.89
UCC2808AD-2	296-11396-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.04	2.43	1.89
UCC2808AN-1	296-11397-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.04	2.43	1.89
UCC2808AN-2	296-11398-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.04	2.43	1.89

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UCC2808APW-1	296-11679-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	3.04	2.43	1.89
UCC2808APW-2	296-11680-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	3.04	2.43	1.89
UCC2808AQDR-1Q1	296-17986-1-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.38	2.70	2.10
UCC2808AQDR-1Q1	296-17986-2-ND	LP Current-Mode Push/Pull PWM	8-SOIC	4725.00/2,500		
UCC2808AQDR-2Q1	296-19037-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	3.38	2.70	2.10
UCC2808AQDR1EP	296-18742-1-ND	LP Current-Mode Push/Pull PWM	8-SOIC	5.40	4.32	3.65
UCC2808AQDR1EP	296-18742-2-ND	LP Current-Mode Push/Pull PWM	8-SOIC	8370.00/2,500		
UCC2808D-1	296-2534-5-ND	Current-Mode Push/Pull PWM	8-SOIC	3.04	2.43	1.89
UCC2808D-2	296-2535-5-ND	Current-Mode Push/Pull PWM	8-SOIC	3.04	2.43	1.89
UCC2808N-1	296-11399-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.04	2.43	1.89
UCC2808N-2	296-11400-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	3.04	2.43	1.89
UCC2809D-1	296-11401-5-ND	Economy Primary Side Controller	8-SOIC	2.38	1.90	1.43
UCC2809D-2	296-11681-5-ND	Primary Side Controller	8-SOIC	2.38	1.90	1.43
UCC2809P-1	296-11402-5-ND	Economy Primary Side Controller	8-MSOP	2.38	1.90	1.43
UCC2809P-2	296-11403-5-ND	Economy Primary Side Controller	8-MSOP	2.38	1.90	1.43
UCC2810DW	296-2536-5-ND	Dual Ch. Sync. Current-Mode PWM	16-SOIC	6.80	5.44	4.59
UCC2810N	296-11404-5-ND	Dual Ch. Sync. Current-Mode PWM	16-Dip	6.80	5.44	4.59
UCC2813D-0	296-11682-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813D-1	296-11405-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813D-2	296-11406-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813D-3	296-11407-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813D-4	296-11408-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813D-5	296-11409-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.93	2.34	1.82
UCC2813N-0	296-12055-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.93	2.34	1.82
UCC2813N-1	296-12056-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.93	2.34	1.82
UCC2813N-2	296-12057-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.93	2.34	1.82
UCC2813N-4	296-12058-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.93	2.34	1.82
UCC2813N-5	296-12059-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.93	2.34	1.82
UCC2813PW-0	296-12060-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813PW-1	296-12061-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813PW-2	296-12062-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813PW-3	296-12063-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813PW-4	296-12064-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813PW-5	296-12065-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.93	2.34	1.82
UCC2813QDR-1Q1	296-19428-1-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	3.49	2.79	2.17
UCC2813QDR-1Q1	296-19428-2-ND	LP BiCMOS Current-Mode PWM ***NEW!***	8-SOIC	4882.50/2,500		
UCC2813QDR-3Q1	296-17879-1-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.49	2.79	2.17
UCC2813QDR-3Q1	296-17879-2-ND	LP BiCMOS Current-Mode PWM	8-SOIC	4882.50/2,500		
UCC2817AD	296-15954-5-ND	Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2817APW	296-15955-5-ND	Power Factor Pre-Regulator	16-TSSOP	2.81	2.25	1.75
UCC2817D	296-11410-5-ND	Power Factor Pre-Regulator	16-SOP	2.81	2.25	1.75
UCC2817DW	296-11411-5-ND	Power Factor Pre-Regulator	16-SOP	2.81	2.25	1.75
UCC2818AD	296-15956-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2818APW	296-15957-5-ND	BiCMOS Power Factor Pre-Reg.	16-TSSOP	2.81	2.25	1.75
UCC2818D	296-13428-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2818DW	296-11412-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2819AD	296-15958-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2819APW	296-15959-5-ND	BiCMOS Power Factor Pre-Reg.	16-TSSOP	2.81	2.25	1.75
UCC2819D	296-12537-5-ND	BiCMOS Power Factor Pre-Regulator	16-SOIC	2.81	2.25	1.75
UCC2819N	296-12538-5-ND	BiCMOS Power Factor Pre-Regulator	16-Dip	2.81	2.25	1.75
UCC2891D	296-15883-5-ND	PWM Controller Clamp	16-SOIC	3.38	2.70	2.10
UCC2891EVM	296-19042-ND	Evaluation Module for UCC2891	—	62.78	—	—
UCC2891PW	296-17240-ND	PWM Controller Clamp	16-TSSOP	2.48	1.98	1.54
UCC2892D	296-15884-5-ND	PWM Controller Clamp	16-SOIC	3.26	2.61	2.03
UCC2892PW	296-15885-5-ND	PWM Controller Clamp	16-TSSOP	2.48	1.98	1.54
UCC2893D	296-15886-5-ND	PWM Controller Clamp	16-SOIC	2.48	1.98	1.54
UCC2893PW	296-17241-ND	PWM Controller Clamp	16-TSSOP	2.48	1.98	1.54
UCC2894D	296-15887-5-ND	PWM Controller Clamp	16-SOIC	2.48	1.98	1.54
UCC2894PW	296-15888-5-ND	PWM Controller Clamp	16-TSSOP	2.48	1.98	1.54
UCC2895DW	296-2537-5-ND	BiCMOS Advanced Phase Shift Resonant Controller	20-SOIC	8.66	7.80	6.92
UCC2895N	296-11418-5-ND	BiCMOS Advanced Phase Shift Resonant Controller	20-Dip	8.66	7.80	6.92
UCC2895PW	296-11419-5-ND	BiCMOS Advanced Phase Shift Resonant Controller	20-TSSOP	8.75	7.88	6.99
UCC2897PW	296-17003-5-ND	Adv. Current-Mode PWM Controller	20-TSSOP	2.48	1.98	1.54
UCC2897RTJT	296-19373-1-ND	Advanced Current-Mode Active Clamp PWM Controller ***NEW!***	20-QFN	2.81	2.25	1.75
UCC2897RTJT	296-19373-2-ND	Advanced Current-Mode Active Clamp PWM Controller ***NEW!***	20-QFN	415.75/250		
UCC2960D	296-11421-5-ND	Primary Side Startup Controller	8-SOIC	2.36	1.89	1.47
UCC2960P	296-11422-5-ND	Primary Side Startup Controller	8-Dip	2.36	1.89	1.47
UCC2961D	296-11423-5-ND	Adv. Primary Side Startup Controller	14-SOIC	2.70	2.16	1.68
UCC2975PW	296-13437-5-ND	Multi-Topology Piezoelectric Transformer Controller	8-TSSOP	5.00	4.00	3.38
UCC2976PW	296-12539-5-ND	3-13.5V Multi-Topology Transformer Controller	8-TSSOP	5.00	4.00	3.38
UCC2977PW	296-12540-5-ND	3-13.5V Multi-Topology Transformer Controller	8-TSSOP	5.00	4.00	3.38
UCC3580D-1	296-11436-5-ND	Active Clamp/Reset PWM	16-SOIC	4.28	3.42	2.66
UCC3580D-2	296-11437-5-ND	Active Clamp/Reset PWM	16-SOIC	4.28	3.42	2.66
UCC3580D-3	296-11438-5-ND	Active Clamp/Reset PWM	16-SOIC	4.28	3.42	2.66
UCC3580D-4	296-11439-5-ND	Active Clamp/Reset PWM	16-SOIC	4.28	3.42	2.66
UCC3580N-1	296-11440-5-ND	Active Clamp/Reset PWM	16-Dip	4.28	3.42	2.66
UCC3580N-2	296-11441-5-ND	Active Clamp/Reset PWM	16-Dip	4.28	3.42	2.66
UCC3580N-3	296-11442-5-ND	Active Clamp/Reset PWM	16-Dip	4.28	3.42	2.66
UCC3580N-4	296-11443-5-ND	Active Clamp/Reset PWM	16-SOP	4.28	3.42	2.66
UCC3581D	296-11444-5-ND	Micropower Voltage Mode PWM	14-SOIC	2.25	1.80	1.40
UCC3581N	296-11445-5-ND	Micropower Voltage Mode PWM	14-Dip	2.25	1.80	1.40
UCC3583D	296-11446-5-ND	Switch Mode Secondary Side Post Regulator	14-SOIC	3.94	3.15	2.45
UCC3583N	296-11447-5-ND	Switch Mode Secondary Side Post Regulator	14-Dip	3.94	3.15	2.45
UCC3588D	296-2540-5-ND	5-Bit, Programmable Output BiCMOS Power Supply Controller	16-SOIC	4.73	3.78	2.94
UCC3588PW	296-13438-5-ND	5-Bit, Programmable Output BiCMOS Power Supply Controller	16-SOIC	4.73	3.78	2.94
UCC3626DW	296-11452-5-ND	Brushless DC Motor Controller	28-SOIC	10.16	9.15	8.12
UCC3626PW	296-11453-5-ND	Brushless DC Motor Controller	28-TSSOP	10.25	9.23	8.18
UCC3800D	296-11457-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3800N	296-11458-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3800PW	296-11459-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
UCC3801D	296-11460-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3801N	296-11461-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3801PW	296-11462-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96
UCC3802D	296-11463-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3802N	296-11464-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3802PW	296-11465-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96
UCC3803D	296-12195-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3803N	296-11466-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3803PW	296-11467-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96
UCC3804D	296-11468-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3804N	296-11469-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3804PW	296-11470-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96
UCC3805D	296-11471-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	3.04	2.43	1.89
UCC3805N	296-11472-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	3.04	2.43	1.89
UCC3805PW	296-11473-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	3.15	2.52	1.96
UCC3806DW	296-11474-5-ND	LP Dual Output Current-Mode PWM	16-SOIC	8.20	6.56	5.54
UCC3806N	296-11475-5-ND	LP Dual Output Current-Mode PWM	16-Dip	8.20	6.56	5.54
UCC3806Q	296-11476-5-ND	LP Dual Output Current-Mode PWM	20-PLCC	8.20	6.56	5.54
UCC3807D-1	296-2541-5-ND	Prog. Duty Cycle PWM Controller	8-SOP	3.38	2.70	2.10
UCC3807D-2	296-2542-5-ND	Prog. Duty Cycle PWM Controller	8-SOP	3.38	2.70	2.10
UCC3807D-3	296-2543-5-ND	Prog. Duty Cycle PWM Controller	8-SOP	3.38	2.70	2.10
UCC3807N-1	296-11477-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	3.38	2.70	2.10
UCC3807N-2	296-11478-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	3.38	2.70	2.10
UCC3807N-3	296-11479-5-ND	Prog. Duty Cycle PWM Controller	8-Dip	3.38	2.70	2.10
UCC3808AD-1	296-11480-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.93	2.34	1.82
UCC3808AD-2	296-11481-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.93	2.34	1.82
UCC3808AN-1	296-13439-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.93	2.34	1.82
UCC3808AN-2	296-11482-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.93	2.34	1.82
UCC3808APW-1	296-11684-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	2.93	2.34	1.82
UCC3808APW-2	296-11685-5-ND	LP Current-Mode Push/Pull PWM	8-TSSOP	2.93	2.34	1.82
UCC3808D-1	296-2544-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.93	2.34	1.82
UCC3808D-2	296-2545-5-ND	LP Current-Mode Push/Pull PWM	8-SOIC	2.93	2.34	1.82
UCC3808N-1	296-11483-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.93	2.34	1.82
UCC3808N-2	296-11484-5-ND	LP Current-Mode Push/Pull PWM	8-Dip	2.93	2.34	1.82
UCC3809D-1	296-11485-5-ND	Economy Primary Side Controller	8-SOIC	2.13	1.70	1.28
UCC3809D-2	296-11486-5-ND	Economy Primary Side Controller	8-SOIC	2.13	1.70	1.28
UCC3809N-1	296-11487-5-ND	Economy Primary Side Controller	8-Dip	2.13	1.70	1.28
UCC3809N-2	296-11488-5-ND	Economy Primary Side Controller	8-Dip	2.13	1.70	1.28
UCC3809P-1	296-11489-5-ND	Economy Primary Side Controller	8-MSOP	2.13	1.70	1.28
UCC3809P-2	296-13440-5-ND	Economy Primary Side Controller	8-MSOP	2.13	1.70	1.28
UCC3809PW-1	296-11490-5-ND	Economy Primary Side Controller	8-TSSOP	2.13	1.70	1.28
UCC3809PW-2	296-12395-5-ND	Economy Primary Side Controller	8-TSSOP	2.13	1.70	1.28
UCC3810DW	296-2546-5-ND	2-Channel Sync. Current-Mode PWM	16-SOIC	4.16	3.33	2.59
UCC3810N	296-11491-5-ND	2-Channel Sync. Current-Mode PWM	16-Dip	4.16	3.33	2.59
UCC3813D-0	296-11492-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813D-1	296-11493-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813D-2	296-11494-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813D-3	296-11495-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813D-4	296-11496-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813D-5	296-11497-5-ND	LP BiCMOS Current-Mode PWM	8-SOIC	2.00	1.60	1.20
UCC3813N-0	296-11498-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813N-1	296-11499-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813N-2	296-11500-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813N-3	296-11501-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813N-4	296-11502-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813N-5	296-11503-5-ND	LP BiCMOS Current-Mode PWM	8-Dip	2.00	1.60	1.20
UCC3813PW-0	296-11504-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3813PW-1	296-11505-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3813PW-2	296-11506-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3813PW-3	296-11507-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3813PW-4	296-11508-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3813PW-5	296-11509-5-ND	LP BiCMOS Current-Mode PWM	8-TSSOP	2.00	1.60	1.20
UCC3817AD	296-16717-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3817AN	296-16718-5-ND	Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UCC3817APW	296-16719-ND	Power Factor Pre-Regulator	16-TSSOP	2.59	2.07	1.61
UCC3817D	296-2547-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3817DW	296-11510-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3817N	296-11512-5-ND	Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UCC3818AD	296-16720-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3818AN	296-16721-5-ND	Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UCC3818APW	296-16722-ND	Power Factor Pre-Regulator	16-TSSOP	2.59	2.07	1.61
UCC3818D	296-11513-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3818DW	296-11514-5-ND	Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3818N	296-11515-5-ND	Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UCC3819AD	296-16723-5-ND	Programmable Output Power Factor Pre-Regulator	16-SOIC	2.59	2.07	1.61
UCC3819AN	296-16724-5-ND	Programmable Output Power Factor Pre-Regulator	16-Dip	2.59	2.07	1.61
UCC3819APW	296-16725-ND	Programmable Output Power Factor Pre-Regulator	16-TSSOP	2.59	2.07	1.61
UCC3837D	296-2548-5-ND	N-FET Supply Controller	8-SOIC	4.39	3.51	2.73
UCC3839D	296-11516-5-ND	Secondary Side Average Current Mode Controller	14-SOIC	2.38	1.90	1.43
UCC3884D	296-2551-5-ND	Current-Mode PWM Controller	16-SOIC	3.60	2.88	2.24
UCC3884N	296-11530-5-ND	Current-Mode PWM Controller	16-Dip	3.60	2.88	2.24
UCC3888D	296-11531-5-ND	Off-Line Power Supply Controller	8-SOIC	1.50	1.20	.90
UCC3888N	296-11532-5-ND	Off-Line Power Supply Controller	8-Dip	1.50	1.20	.90
UCC3889D	296-11533-5-ND	Off-Line Power Supply Controller	8-SOIC	1.50	1.20	.90
UCC3889N	296-11534-5-ND	Off-Line Power Supply Controller	8-Dip	1.50	1.20	.90
UCC3895DW	296-2552-5-ND	Phase Shift PWM Controller	20-SOIC	8.70	6.96	5.88
UCC3895N	296-11538-5-ND	Phase Shift PWM Controller	20-Dip	8.70	6.96	5.88
UCC3895PW	296-11686-5-ND	Phase Shift PWM Controller	20-TSSOP	8.80	7.04	5.94
UCC3895Q	296-11539-5-ND	Phase Shift PWM Controller	20-PLCC	8.70	6.96	5.88
UCC3960D	296-11561-5-ND	Primary Side Startup Controller	8-SOIC	2.38	1.90	1.43
UCC3960P	296-11562-5-ND	Primary Side Startup Controller	8-Dip	2.38	1.90	1.43
UCC3961D	296-11563-5-ND	Adv. Primary Side Startup Controller	14-SOIC	2.36	1.89	1.47
UCC3961N	296-11564-5-ND	Adv. Primary Side Startup Controller	14-Dip	2.36	1.89	1.47
UCC25701D	296-11363-5-ND	Advanced Voltage-Mode PWM	14-SOIC	6.20	4.96	4.19
UCC25701N	296-11364-5-ND	Advanced Voltage-Mode PWM	14-Dip	6.20	4.96	4.19
UCC25701PW	296-11365-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	6.30	5.04	4.26
UCC25702D	296-12194-5-ND	Advanced Voltage-Mode PWM	14-SOIC	6.20	4.96	4.19
UCC25702N	296-11366-5-ND	Advanced Voltage-Mode PWM	14-Dip	6.20	4.96	4.19
UCC25702PW	296-11367-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	6.30	5.04	4.26
UCC25705D	296-11368-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.25	1.80	1.35
UCC25705DGK	296-12175-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.25	1.80	1.35
UCC25705P	296-11369-5-ND	High Speed Voltage-Mode PWM	8-Dip	2.25	1.80	1.35
UCC25706D	296-11370-5-ND	High Speed Voltage-Mode PWM	8-SOIC	2.25	1.80	1.35
UCC25706DGK	296-11371-5-ND	High Speed Voltage-Mode PWM	8-MSOP	2.25	1.80	1.35
UCC25706P	296-12114-5-ND	High Speed Voltage-Mode PWM	8-Dip	2.25	1.80	1.35
UCC28050D	296-13708-5-ND	Transition Mode PFC Controller	8-SOIC	1.63	1.30	.98
UCC28050P	296-13709-5-ND	Transition Mode PFC Controller	8-Dip	1.63	1.30	.98
UCC28051D	296-15243-5-ND	Transition Mode PFC Controller	8-SOIC	1.63	1.30	.98
UCC28051EVM	296-19036-ND	Evaluation Module for UCC28051	—	62.78	—	—
UCC28051P	296-15224-5-ND	Transition Mode PFC Controller	8-Dip	1.63	1.30	.98
UCC28083D	296-13676-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.70	2.16	1.68
UCC28083P	296-13677-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.70	2.16	1.68
UCC28083PW	296-14333-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.70	2.16	1.68
UCC28084D	296-13678-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.70	2.16	1.68
UCC28084P	296-13679-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.70	2.16	1.68
UCC28084PW	296-14334-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.70	2.16	1.68
UCC28085D	296-13680-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.70	2.16	1.68
UCC28085P	296-13681-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.70	2.16	1.68
UCC28085PW	296-14335-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.70	2.16	1.68
UCC28086D	296-13682-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Comp.	8-SOIC	2.70	2.16	1.68
UCC28086P	296-13683-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Comp.	8-Dip	2.70	2.16	1.68
UCC28086PW	296-15690-5-ND	Current Mode Push Pull PWM Controller with Prog. Slope Comp.	8-TSSOP	2.70	2.16	1.68
UCC28089D	296-17461-5-ND	Primary-Side Push-Pull Oscillator	8-SOIC	1.63	1.30	.98
UCC28220D	296-15755-5-ND	Interleaved Dual PWM Controller	16-SOIC	3.60	2.88	2.24
UCC28220PW	296-15756-5-ND	Interleaved Dual PWM Controller	16-TSSOP	3.60	2.88	2.24
UCC28221D	296-15757-5-ND	Interleaved Dual PWM Controller	16-SOIC	3.71	2.97	2.31
UCC28221PW	296-15758-5-ND	Interleaved Dual PWM Controller	20-TSSOP	3.71	2.97	2.31
UCC28510DW	296-14218-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28510N	296-14219-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28511DW	296-14220-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28511N	296-14221-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28512DW	296-14222-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28512N	296-14223-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28513DW	296-14224-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28513N	296-14225-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28514DW	296-14226-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28514EVM	296-19040-ND	Evaluation Module for UCC28514	—	62.78	—	—
UCC28514N	296-14227-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28515DW	296-14228-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28515N	296-14229-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28516DW	296-14230-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28516N	296-14231-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28517DW	296-14232-5-ND	PFC/PWM Combination Controller	20-SOIC	4.05	3.24	2.52
UCC28517EVM	296-19041-ND	Evaluation Module for UCC28517	—	62.78	—	—
UCC28517N	296-14233-5-ND	PFC/PWM Combination Controller	20-Dip	4.05	3.24	2.52
UCC28521DW	296-18040-5-ND	Advanced PFC/PWM Controller	20-SOIC	4.05	3.24	2.52
UCC28528DW	296-18041-5-ND	Advanced PFC/PWM Controller	8-SOIC	4.05	3.24	2.52
UCC29002D	296-13024-5-ND	Advanced Load Share Controller	8-SOIC	2.25	1.80	1.40
UCC29002DGK	296-13025-5-ND	Advanced Load Share Controller	8-MSOP	2.25	1.80	1.40
UCC29002P	296-13026-5-ND	Advanced Load Share Controller	8-Dip	2.25	1.80	1.40
UCC29421N	296-2538-5-ND	Multimode High-Freq. PWM Controller	16-Dip	3.38	2.70	2.10
UCC29421PW	296-12394-5-ND	Multimode High-Freq. Sync. Controller	20-TSSOP	4.84	3.87	3.01
UCC29422N	296-2539-5-ND	Multimode High-Freq. PWM Controller	16-Dip	4.84	3.87	3.01
UCC35701D	296-11425-5-ND	Advanced Voltage-Mode PWM	14-SOIC	5.90	4.72	3.99
UCC35701N	296-11426-5-ND	Advanced Voltage-Mode PWM	14-Dip	5.90	4.72	3.99
UCC35701PW	296-11427-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	6.00	4.80	4.05
UCC35702D	296-11428-5-ND	Advanced Voltage-Mode PWM	14-SOIC	5.90	4.72	3.99
UCC35702N	296-11429-5-ND	Advanced Voltage-Mode PWM	14-Dip	5.90	4.72	3.99
UCC35702PW	296-11430-5-ND	Advanced Voltage-Mode PWM	14-TSSOP	6.00	4.80	4.05
UCC35705D	296-11431-5-ND	High Speed Voltage-Mode PWM	8-SOIC	1.88	1.50	1.13
UCC35705DGK	296-11683-5-ND	High Speed Voltage-Mode PWM	8-MSOP	1.88	1.50	1.13
UCC35705EVM	296-19043-ND	Evaluation Module for UCC35705	—	62.78	—	—
UCC35705P	296-11432-5-ND	High Speed Voltage-Mode PWM	8-Dip	1.88	1.50	1.13
UCC35706D	296-11433-5-ND	High Speed Voltage-Mode PWM	8-SOIC	1.88	1.50	1.13
UCC35706DGK	296-11434-5-ND	High Speed Voltage-Mode PWM	8-MSOP	1.88	1.50	1.13
UCC35706P	296-15320-5-ND	High Speed Voltage-Mode PWM	8-Dip	1.88	1.50	1.13
UCC38050D	296-13710-5-ND	Transition Mode PFC Controller	8-SOIC	1.50	1.20	.90
UCC38050EVM	296-19044-ND	Evaluation Module for UCC38050	—	62.78	—	—
UCC38050P	296-13711-5-ND	Transition Mode PFC Controller	8-Dip	1.50	1.20	.90
UCC38051D	296-15225-5-ND	Transition Mode PFC Controller	8-SOIC	1.50	1.20	.90
UCC38051P	296-15226-5-ND	Transition Mode PFC Controller	8-Dip	1.50	1.20	.90
UCC38083D	296-13690-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.48	1.98	1.54
UCC38083P	296-13691-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.48	1.98	1.54
UCC38083PW	296-14336-5-ND	Current Mode Push-Pull PWM Controller with Slope Compensation	8-TSSOP	2.48	1.98	1.54
UCC38084D	296-13692-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.48	1.98	1.54
UCC38084P	296-13693-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.48	1.98	1.54
UCC38084PW	296-14337-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.48	1.98	1.54
UCC38085D	296-13694-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.48	1.98	1.54

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC38085P	296-13695-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.48	1.98	1.54
UCC38085PW	296-14338-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.48	1.98	1.54
UCC38086D	296-13696-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-SOIC	2.48	1.98	1.54
UCC38086P	296-13697-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-Dip	2.48	1.98	1.54
UCC38086PW	296-14339-5-ND	Current Mode Push-Pull PWM Controller with Prog. Slope Compensation	8-TSSOP	2.48	1.98	1.54
UCC38500DW	296-11518-5-ND	BiCMOS Combined PFC/PWM Controller	20-SOIC	5.29	4.23	3.29
UCC38500N	296-11520-5-ND	BiCMOS Combined PFC/PWM Controller	20-Dip	5.29	4.23	3.29
UCC38501DW	296-11521-5-ND	BiCMOS Combined PFC/PWM Controller	20-SOIC	5.29	4.23	3.29
UCC38501N	296-11522-5-ND	BiCMOS Combined PFC/PWM Controller	20-Dip	5.29	4.23	3.29
UCC38502DW	296-12404-5-ND	BiCMOS Combined PFC/PWM Controller	20-SOIC	5.29	4.23	3.29
UCC38502N	296-11523-5-ND	BiCMOS Combined PFC/PWM Controller	20-Dip	5.29	4.23	3.29
UCC38503DW	296-12046-5-ND	BiCMOS Combined PFC/PWM Controller	20-SOIC	5.29	4.23	3.29
UCC38503N	296-11524-5-ND	BiCMOS Combined PFC/PWM Controller	20-Dip	5.29	4.23	3.29
UCC39002D	296-13027-5-ND	Advanced Load Share Controller	8-SOIC	2.38	1.90	1.43
UCC39002EVM	296-19045-ND	Evaluation Module for UCC39002	—	62.78	—	—
UCC39002P	296-13029-5-ND	Advanced Load Share Controller	8-Dip	2.38	1.90	1.43
UCC39421N	296-11545-5-ND	Multimode Hi-Freq. PWM Controller	16-Dip	4.84	3.87	3.01
UCC39421PW	296-2553-5-ND	Multimode Hi-Freq. PWM Controller	16-TSSOP	4.84	3.87	3.01
UCC39422N	296-11546-5-ND	Multimode Hi-Freq. PWM Controller	20-Dip	4.84	3.87	3.01
UCC39422PW	296-2554-5-ND	Multimode Hi-Freq. PWM Controller	20-TSSOP	4.84	3.87	3.01
UCD8220PWP	296-18592-5-ND	Digitally Managed Push-Pull Analog PWM Controller	16-HTSSOP	3.60	2.88	2.24

Schottky Diode Arrays

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UC2610N	296-11161-5-ND	Dual Schottky Diode Bridge	8-Dip	5.60	4.48	3.78
UC3610DW	296-11230-5-ND	Dual Schottky Diode Bridge	16-SOIC	5.29	4.23	3.29
UC3610N	296-11231-5-ND	Dual Schottky Diode Bridge	8-Dip	5.29	4.23	3.29
UC3611DW	296-11233-5-ND	Quad Schottky Diode Array	16-SOIC	4.39	3.51	2.73
UC3611N	296-11234-5-ND	Quad Schottky Diode Array	8-Dip	4.39	3.51	2.73

Voltage References

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM285D-1-2	296-9521-5-ND	1.2V Micropower Voltage Reference.	8-SOP	.80	.60	.45
LM285D-2-5	296-9522-5-ND	2.5V Micropower Voltage Reference.	8-SOP	.80	.60	.45
LM285DR-2-5	296-14592-1-ND	2.5V Micropower Voltage Reference	8-SOIC	.80	.60	.45
LM285DR-2-5	296-14592-2-ND	2.5V Micropower Voltage Reference	8-SOIC	650.00/2,500		
LM285LP-1-2	296-9523-5-ND	1.2V Micropower Voltage Reference	TO-92	.64	.48	.36
LM285LP-2-5	296-9524-5-ND	2.5V Micropower Voltage Reference	TO-92	.64	.48	.36
LM336BD-2-5	296-9547-5-ND	2.5V Precision Voltage Reference	8-SOIC	.88	.66	.50
LM336BLP-2-5	296-9548-5-ND	2.5V Precision Voltage Reference	TO-92	.88	.66	.50
LM336D-2-5	296-9549-5-ND	2.5V Precision Voltage Reference	8-SOIC	.88	.66	.50
LM385BD-1-2	296-9556-5-ND	1.2V Micropower Voltage Reference	8-SOIC	.80	.60	.45
LM385BD-2-5	296-9557-5-ND	2.5V Micropower Voltage Reference	8-SOIC	.80	.60	.45
LM385BDR-1-2	296-14603-1-ND	2.5V Micropower Voltage Reference	8-SOIC	.80	.60	.45
LM385BDR-1-2	296-14603-2-ND	2.5V Micropower Voltage Reference	8-SOIC	650.00/2,500		
LM385BLP-1-2	296-9558-5-ND	1.2V Micropower Voltage Reference	TO-92	.80	.60	.45
LM385BLP-2-5	296-9559-5-ND	2.5V Micropower Voltage Reference	TO-92	.80	.60	.45
LM385BPWR-1-2	296-13073-1-ND	1.2V Micropower Voltage Reference	8-TSSOP	.80	.60	.45
LM385BPWR-1-2	296-13073-2-ND	1.2V Micropower Voltage Reference	8-TSSOP	532.00/2,000		
LM385BPWR-2-5	296-13074-1-ND	2.5V Micropower Voltage Reference	8-TSSOP	.80	.60	.45
LM385BPWR-2-5	296-13074-2-ND	2.5V Micropower Voltage Reference	8-TSSOP	532.00/2,000		
LM385D-1-2	296-9560-5-ND	1.2V Micropower Voltage Reference	8-SOIC	.56	.42	.32
LM385D-2-5	296-9561-5-ND	2.5V Micropower Voltage Reference	8-SOIC	.56	.42	.32
LM385LP-1-2	296-9562-5-ND	1.2V Micropower Voltage Reference	TO-92	.56	.42	.32
LM385LP-2-5	296-9563-5-ND	2.5V Micropower Voltage Reference	TO-92	.56	.42	.32
LM385PWR-1-2	296-13075-1-ND	1.2V Micropower Voltage Reference	8-TSSOP	.56	.42	.32
LM385PWR-1-2	296-13075-2-ND	1.2V Micropower Voltage Reference	8-TSSOP	372.00/2,000		
LM385PWR-2-5	296-13076-1-ND	2.5V Micropower Voltage Reference	8-TSSOP	.56	.42	.32
LM385PWR-2-5	296-13076-2-ND	2.5V Micropower Voltage Reference	8-TSSOP	372.00/2,000		
LM4040C25IDBZR	296-17937-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	.92	.69	.52
LM4040C25IDBZR	296-17937-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	897.00/3,000		
LM4040C25IDCKR	296-17938-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	.75	.63	.50
LM4040C25IDCKR	296-17938-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	975.00/3,000		
LM4040C25QDBZR	296-17939-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	1.05	.88	.70
LM4040C25QDBZR	296-17939-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	1365.00/3,000		
LM4040D25IDBZR	296-17940-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4040D25IDBZR	296-17940-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	702.00/3,000		
LM4040D25IDCKR	296-17941-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	.80	.60	.45
LM4040D25IDCKR	296-17941-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SC70-5	780.00/3,000		
LM4040D25QDBZR	296-17942-1-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	.81	.68	.54
LM4040D25QDBZR	296-17942-2-ND	2.5V Precision Micropower Shunt Voltage Reference	SOT-23	1053.00/3,000		
LM4040D30IDBZR	296-19437-1-ND	3V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	.72	.54	.41
LM4040D30IDBZR	296-19437-2-ND	3V Precision Micropower Shunt Voltage Reference ***NEW!***	SOT-23	702.00/3,000		
LM4041CIDBZR	296-17943-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	.92	.69	.52
LM4041CIDBZR	296-17943-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	897.00/3,000		
LM4041CIDCKR	296-17944-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	.75	.63	.50
LM4041CIDCKR	296-17944-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	975.00/3,000		
LM4041CQDBZR	296-17945-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	1.05	.88	.70
LM4041CQDBZR	296-17945-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	1365.00/3,000		
LM4041DIDBZR	296-17946-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	.72	.54	.41
LM4041DIDBZR	296-17946-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	702.00/3,000		
LM4041DIDCKR	296-17947-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	.80	.60	.45
LM4041DIDCKR	296-17947-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SC70-5	780.00/3,000		
LM4041DQDBZR	296-17948-1-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	.81	.68	.54
LM4041DQDBZR	296-17948-2-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	1053.00/3,000		
LT1004CD-1-2	296-9580-5-ND	1.2V Micropower Integrated Voltage Reference	8-SOIC	.84	.70	.56
LT1004CD-2-5	296-9581-5-ND	2.5V Micropower Integrated Voltage Reference	8-SOIC	.84	.70	.56
LT1004CDR-1-2	296-14610-1-ND	1.2V Micropower Integrated Voltage Reference	8-SOIC	.84	.70	.56
LT1004CDR-1-2	296-14610-2-ND	1.2V Micropower Integrated Voltage Reference	8-SOIC	910.00/2,500		
LT1004CLP-1-2	296-9582-5-ND	1.2V Micropower Integrated Voltage Reference	TO-92	.84	.70	.56
LT1004CLP-2-5	296-9583-5-ND	2.5V Micropower Integrated Voltage Reference	TO-92	.84	.70	.56
LT1004CPWR-1-2	296-13077-1-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	.84	.70	.56
LT1004CPWR-1-2	296-13077-2-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	744.00/2,000		
LT1004CPWR-2-5	296-13078-1-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	.84	.70	.56
LT1004CPWR-2-5	296-13078-2-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	744.00/2,000		
LT1004ID-2-5	296-9584-5-ND	2.5V Micropower Integrated Voltage Reference	8-SOIC	1.38	1.10	.83
LT1004IPWR-1-2	296-13079-1-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	1.38	1.10	.83
LT1004IPWR-1-2	296-13079-2-ND	1.2V Micropower Integrated Voltage Reference	8-TSSOP	1430.00/2,000		
LT1004IPWR-2-5	296-13080-1-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	1.38	1.10	.83
LT1004IPWR-2-5	296-13080-2-ND	2.5V Micropower Integrated Voltage Reference	8-TSSOP	1430.00/2,000		
LT1009CDR	296-14611-1-ND	2.5V Integrated Reference Circuit	8-SOIC	.96	.80	.64
LT1009CDR	296-14611-2-ND	2.5V Integrated Reference Circuit	8-SOIC	1040.00/2,500		
LT1009CLP	296-9585-5-ND	2.5V Integrated Reference Circuit	TO-92	.96	.80	.64
LT1009CLPR	296-14612-1-ND	2.5V Integrated Reference Circuit	TO-92	.96	.80	.64
LT1009CLPR	296-14612-2-ND	2.5V Integrated Reference Circuit	TO-92	852.00/2,000		
LT1009CPWR	296-13081-1-ND	2.5V Integrated Reference Circuit	8-TSSOP	.96	.80	.64
LT1009CPWR	296-13081-2-ND	2.5V Integrated Reference Circuit	8-TSSOP	852.00/2,000		
LT1009ID	296-9586-5-ND	2.5V Integrated Reference Circuit	8-SOIC	1.05	.88	.70
LT1009IDR	296-14613-1-ND	2.5V Integrated Reference Circuit	8-SOIC	1.05	.88	.70
LT1009IDR	296-14613-2-ND	2.5V Integrated Reference Circuit	8-SOIC	1137.50/2,500		
LT1009ILP	296-9587-5-ND	2.5V Integrated Reference Circuit	TO-92	1.05	.88	.70
LT1009ILPR	296-14614-1-ND	2.5V Integrated Reference Circuit	TO-92	1.05	.88	.70
LT1009ILPR	296-14614-2-ND	2.5V Integrated Reference Circuit	TO-92	932.00/2,000		
LT1009IPWR	296-15734-1-ND	2.5V Integrated Reference Circuit	8-TSSOP	1.05	.88	.70
LT1009IPWR	296-15734-2-ND	2.5V Integrated Reference Circuit	8-TSSOP	932.00/2,000		
REF02AP	296-12732-5-ND	+5V Precision Voltage Reference	8-Dip	3.11	2.49	1.94
REF02AU	REF02AU-ND	+5V Voltage Reference	8-SOIC	3.11	2.49	1.94
REF02BP	REF02BP-ND	+5V Precision Voltage Reference	8-Dip	5.04	4.04	3.41
REF02BU	REF02BU-ND	+5V Voltage Reference	8-SOIC	4.39	3.51	2.73
REF102AP	REF102AP-ND	+10V Precision Voltage Reference	8-Dip	3.94	3.15	2.45
REF102AU	REF102AU-ND	+10V Precision Voltage Reference	8-SOIC	3.94	3.15	2.45
REF102BP	REF102BP-ND	+10V Precision Voltage Reference	8-Dip	6.50	5.20	4.39
REF102BU	296-17004-5-ND	+10V Precision Voltage Reference	8-SOIC	6.50	5.20	4.39
REF102CP	296-17005-5-ND	+10V Precision Voltage Reference	8-Dip	9.00	7.20	6.08
REF102CU	296-17006-5-ND	+10V Precision Voltage Reference	8-SOIC	9.00	7.20	6.08
REF200AU	REF200AU-ND	Dual Current Source/Current Sink	8-SOIC	5.20	4.16	3.51
REF1004C-1.2	REF1004C-1.2-ND	1.2V Micropower Voltage Reference	8-SOIC	2.79	2.24	1.74
REF1004C-2.5	REF1004C-2.5-ND	2.5V Micropower Voltage Reference	8-SOIC	2.79	2.24	1.74
REF1004I-1.2	REF1004I-1.2-ND	1.2V Micropower Voltage Reference	8-SOIC	5.45	4.36	3.39
REF1004I-2.5	REF1004I-2.5-ND	2.5V Micropower Voltage Reference	8-SOIC	5.45	4.36	3.39
REF1112AIDBZT	296-15842-1-ND	1.25V, Shunt Voltage Reference	SOT-23	2.38	1.90	1.43
REF1112AIDBZT	296-15842-2-ND	1.25V, Shunt Voltage Reference	SOT-23	332.50/250		
REF2912AIDBZT	296-13480-1-ND	1.25V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83
REF2912AIDBZT	296-13480-2-ND	1.25V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	192.50/250		
REF2920AIDBZT	296-13481-1-ND	2.048V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83
REF2920AIDBZT	296-13481-2-ND	2.048V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	192.50/250		
REF2925AIDBZT	296-13482-1-ND	2.5V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83
REF2925AIDBZT	296-13482-2-ND	2.5V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	192.50/250		
REF2930AIDBZT	296-13483-1-ND	3.0V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83
REF2930AIDBZT	296-13483-2-ND	3.0V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	192.50/250		
REF2933AIDBZT	296-13484-1-ND	3.3V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83
REF2933AIDBZT	296-13484-2-ND	3.3V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	192.50/250		
REF2940AIDBZT	296-13485-1-ND	4.096V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	1.38	1.10	.83

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
REF2940AIDBZT	296-13485-2-ND	4.096V, Precision, Low Power, Low Voltage Dropout Voltage Reference	SOT-23	192.50/250		
REF3012AIDBZT	REF3012AIDBZTCT-ND	1.25V, Low Power CMOS Voltage Ref.	SOT-23	1.63	1.30	.98
REF3012AIDBZT	REF3012AIDBZTTR-ND	1.25V, Low Power CMOS Voltage Ref.	SOT-23	227.50/250		
REF3020AIDBZT	REF3020AIDBZTCT-ND	2.0V, Low Power CMOS Voltage Ref.	SOT-23	1.63	1.30	.98
REF3020AIDBZT	REF3020AIDBZTTR-ND	2.0V, Low Power CMOS Voltage Ref.	SOT-23	227.50/250		
REF3025AIDBZT	REF3025AIDBZTCT-ND	2.5V, Low Power CMOS Voltage Ref.	SOT-23	1.63	1.30	.98
REF3025AIDBZT	REF3025AIDBZTTR-ND	2.5V, Low Power CMOS Voltage Ref.	SOT-23	227.50/250		
REF3030AIDBZT	296-18517-1-ND	3V, CMOS Voltage Reference	SOT-23	1.63	1.30	.98
REF3030AIDBZT	296-18517-2-ND	3V, CMOS Voltage Reference	SOT-23	227.50/250		
REF3033AIDBZT	REF3033AIDBZTCT-ND	3.3V, Low Power CMOS Voltage Ref.	SOT-23	1.63	1.30	.98
REF3033AIDBZT	REF3033AIDBZTTR-ND	3.3V, Low Power CMOS Voltage Ref.	SOT-23	227.50/250		
REF3040AIDBZT	REF3040AIDBZTCT-ND	4.0V, Low Power CMOS Voltage Ref.	SOT-23	1.63	1.30	.98
REF3040AIDBZT	REF3040AIDBZTTR-ND	4.0V, Low Power CMOS Voltage Ref.	SOT-23	227.50/250		
REF3112AIDBZT	296-18518-1-ND	1.25V, CMOS Voltage Reference	SOT-23	2.81	2.25	1.75
REF3112AIDBZT	296-18518-2-ND	1.25V, CMOS Voltage Reference	SOT-23	415.75/250		
REF3120AIDBZT	296-17927-1-ND	2.048V, 100µA, Voltage Reference	SOT-23	2.81	2.25	1.75
REF3120AIDBZT	296-17927-2-ND	2.048V, 100µA, Voltage Reference	SOT-23	415.75/250		
REF3125AIDBZT	296-17509-1-ND	2.5V, 100µA, Voltage Reference	SOT-23	2.81	2.25	1.75
REF3125AIDBZT	296-17509-2-ND	2.5V, 100µA, Voltage Reference	SOT-23	415.75/250		
REF3133AIDBZT	296-18519-1-ND	3.3V, CMOS Voltage Reference	SOT-23	2.81	2.25	1.75
REF3133AIDBZT	296-18519-2-ND	3.3V, CMOS Voltage Reference	SOT-23	415.75/250		
REF3140AIDBZT	296-17234-1-ND	4.096V, Low Power CMOS Voltage Reference	SOT-23	2.81	2.25	1.75
REF3140AIDBZT	296-17234-2-ND	4.096V, Low Power CMOS Voltage Reference	SOT-23	415.75/250		
REF3212AIDBVT	296-18225-1-ND	1.25V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3212AIDBVT	296-18225-2-ND	1.25V LDO Voltage Reference	SOT-23-6	631.75/250		
REF3220AIDBVT	296-18226-1-ND	2.048V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3220AIDBVT	296-18226-2-ND	2.048V LDO Voltage Reference	SOT-23-6	631.75/250		
REF3225AIDBVT	296-18227-1-ND	2.5V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3225AIDBVT	296-18227-2-ND	2.5V LDO Voltage Reference	SOT-23-6	631.75/250		
REF3230AIDBVT	296-18228-1-ND	3V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3230AIDBVT	296-18228-2-ND	3V LDO Voltage Reference	SOT-23-6	631.75/250		
REF3233AIDBVT	296-18229-1-ND	3.3V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3233AIDBVT	296-18229-2-ND	3.3V LDO Voltage Reference	SOT-23-6	631.75/250		
REF3240AIDBVT	296-18230-1-ND	4.096V LDO Voltage Reference	SOT-23-6	4.28	3.42	2.66
REF3240AIDBVT	296-18230-2-ND	4.096V LDO Voltage Reference	SOT-23-6	631.75/250		

Low Dropout Voltage Regulators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
LP2981-28DBVR	296-18472-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.80	.60	.45
LP2981-28DBVR	296-18472-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	780.00/3,000		
LP2981-30DBVR	296-17546-1-ND	3V, 100mA LDO Regulator	SOT-23-5	.80	.60	.45
LP2981-30DBVR	296-17546-2-ND	3V, 100mA LDO Regulator	SOT-23-5	780.00/3,000		
LP2981-33DBVR	296-17360-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	.80	.60	.45
LP2981-33DBVR	296-17360-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	780.00/3,000		
LP2981A-28DBVR	296-18473-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.88	.66	.50
LP2981A-28DBVR	296-18473-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	858.00/3,000		
LP2981A-30DBVR	296-17545-1-ND	3V, 100mA LDO Regulator	SOT-23-5	.88	.66	.50
LP2981A-30DBVR	296-17545-2-ND	3V, 100mA LDO Regulator	SOT-23-5	858.00/3,000		
LP2981A-33DBVR	296-17361-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	.88	.66	.50
LP2981A-33DBVR	296-17361-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	858.00/3,000		
LP2985-18DBVR	296-18474-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	.72	.54	.41
LP2985-18DBVR	296-18474-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	702.00/3,000		
LP2985-28DBVR	296-18475-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.72	.54	.41
LP2985-28DBVR	296-18475-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	702.00/3,000		
LP2985-33DBVR	296-18476-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.72	.54	.41
LP2985-33DBVR	296-18476-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	702.00/3,000		
LP2985A-18DBVR	296-18477-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	.74	.56	.42
LP2985A-18DBVR	296-18477-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	723.00/3,000		
LP2985A-28DBVR	296-18478-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.74	.56	.42
LP2985A-28DBVR	296-18478-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	723.00/3,000		
LP2985A-33DBVR	296-18479-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.74	.56	.42
LP2985A-33DBVR	296-18479-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	723.00/3,000		
REG101NA-A/250	REG101NA-A/250CT-ND	Adj., DMOS 100mA LDO Regulator	SOT-23-5	2.25	1.80	1.40
REG101NA-A/250	REG101NA-A/250TR-ND	Adj., DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-2.5/250	REG101NA-2.5CT-ND	2.5V DMOS 100mA LDO Regulator	SOT-23-5	2.25	1.80	1.40
REG101NA-2.5/250	REG101NA-2.5TR-ND	2.5V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-2.8/250	REG101NA-2.8CT-ND	2.8V DMOS 100mA LDO Regulator	SOT-23-5	2.25	1.80	1.40
REG101NA-2.8/250	REG101NA-2.8TR-ND	2.8V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-2.85/250	REG101NA-2.85CT-ND	2.85V DMOS 100mA LDO Regulator	SOT-23-5	2.25	1.80	1.40
REG101NA-2.85/250	REG101NA-2.85TR-ND	2.85V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-3/250	REG101NA-3CT-ND	3V DMOS 100mA LDO Regulator	SOT-23-5	2.25	1.80	1.40
REG101NA-3/250	REG101NA-3TR-ND	3V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-3.3/250	REG101NA-3.3CT-ND	3.3V DMOS 100mA LDO Regulator	SOT-23-5	2.25	1.80	1.40
REG101NA-3.3/250	REG101NA-3.3TR-ND	3.3V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101NA-5/250	REG101NA-5CT-ND	5V DMOS 100mA LDO Regulator	SOT-23-5	2.25	1.80	1.40
REG101NA-5/250	REG101NA-5TR-ND	5V DMOS 100mA LDO Regulator	SOT-23-5	332.50/250		
REG101UA-A	REG101UA-A-ND	Adj., 100mA LDO Regulator	8-SOIC	2.38	1.90	1.43
REG101UA-2.5	REG101UA-2.5-ND	2.5V DMOS 100mA LDO Regulator	SO-8-50	2.38	1.90	1.43
REG101UA-2.5/2KS	REG101UA-2.5TR-ND	2.5V DMOS 100mA LDO Regulator	SO-8-50	3040.00/2,500		
REG101UA-2.8	REG101UA-2.8-ND	2.8V DMOS 100mA LDO Regulator	SO-8-50	2.38	1.90	1.43
REG101UA-2.8/2KS	REG101UA-2.8TR-ND	2.8V DMOS 100mA LDO Regulator	SO-8-50	3040.00/2,500		
REG101UA-2.85	REG101UA-2.85-ND	2.85V DMOS 100mA LDO Regulator	SO-8-50	2.38	1.90	1.43
REG101UA-3	REG101UA-3-ND	3V DMOS 100mA LDO Regulator	SO-8-50	2.38	1.90	1.43
REG101UA-3/2KS	REG101UA-3TR-ND	3V DMOS 100mA LDO Regulator	SO-8-50	3040.00/2,500		
REG101UA-3.3	REG101UA-3.3-ND	3.3V DMOS 100mA LDO Regulator	8-SOIC	2.38	1.90	1.43
REG101UA-5	REG101UA-5-ND	5V DMOS 100mA LDO Regulator	SO-8-50	2.38	1.90	1.43
REG101UA-5/2KS	REG101UA-5TR-ND	5V DMOS 100mA LDO Regulator	SO-8-50	3040.00/2,500		
REG102GA-A	REG102GA-A-ND	Adj., 250mA DMOS LDO Reg.	SOT-223-5	2.68	2.15	1.67
REG102GA-2.5	REG102GA-2.5-ND	2.5V, 250mA DMOS LDO Reg.	SOT-223-5	2.68	2.15	1.67
REG102GA-2.8	REG102GA-2.8-ND	2.8V, 250mA DMOS LDO Reg.	SOT-223-5	2.68	2.15	1.67
REG102GA-2.85	REG102GA-2.85-ND	2.85V, 250mA DMOS LDO Reg.	SOT-223-5	2.68	2.15	1.67
REG102GA-3	REG102GA-3-ND	3V, 250mA DMOS LDO Reg.	SOT-223-5	2.68	2.15	1.67
REG102GA-3.3	REG102GA-3.3-ND	3.3V, 250mA DMOS LDO Reg.	SOT-223-5	2.68	2.15	1.67
REG102GA-5	REG102GA-5-ND	5V, 250mA DMOS LDO Regulator	SOT-223-5	2.68	2.15	1.67
REG102NA-A/250	REG102NA-A/250CT-ND	Adj., DMOS 250mA LDO Regulator	SOT-23-5	2.57	2.06	1.60
REG102NA-A/250	REG102NA-A/250TR-ND	Adj., DMOS 250mA LDO Regulator	SOT-23-5	379.00/250		
REG102NA-2.5/250	REG102NA-2.5CT-ND	2.5V DMOS 250mA LDO Regulator	SOT-23-5	2.57	2.06	1.60
REG102NA-2.5/250	REG102NA-2.5TR-ND	2.5V DMOS 250mA LDO Regulator	SOT-23-5	379.00/250		
REG102NA-2.8/250	REG102NA2.8250CT-ND	2.8V DMOS 250mA LDO Regulator	SOT-23-5	2.57	2.06	1.60
REG102NA-2.8/250	REG102NA2.8250TR-ND	2.8V DMOS 250mA LDO Regulator	SOT-23-5	379.00/250		
REG102NA-2.85/250	REG102NA-2.85CT-ND	2.85V DMOS 250mA LDO Regulator	SOT-23-5	2.57	2.06	1.60
REG102NA-2.85/250	REG102NA-2.85TR-ND	2.85V DMOS 250mA LDO Regulator	SOT-23-5	379.00/250		
REG102NA-3/3K	296-17894-1-ND	3V DMOS 250mA LDO Regulator	SOT-23-5	2.25	1.80	1.40
REG102NA-3/3K	296-17894-2-ND	3V DMOS 250mA LDO Regulator	SOT-23-5	3780.00/3,000		
REG102NA-3/250	REG102NA-3CT-ND	3V DMOS 250mA LDO Regulator	SOT-23-5	2.57	2.06	1.60
REG102NA-3/250	REG102NA-3TR-ND	3V DMOS 250mA LDO Regulator	SOT-23-5	379.00/250		
REG102NA-3.3/250	REG102NA-3.3CT-ND	3.3V DMOS 250mA LDO Regulator	SOT-23-5	2.57	2.06	1.60
REG102NA-3.3/250	REG102NA-3.3TR-ND	3.3V DMOS 250mA LDO Regulator	SOT-23-5	379.00/250		
REG102NA-5/250	REG102NA-5CT-ND	5V DMOS 250mA LDO Regulator	SOT-23-5	2.57	2.06	1.60
REG102NA-5/250	REG102NA-5TR-ND	5V DMOS 250mA LDO Regulator	SOT-23-5	379.00/250		
REG102UA-A	REG102UA-A-ND	Adj., 250mA LDO Regulator	8-SOIC	2.36	1.89	1.47
REG102UA-2.5	REG102UA-2.5-ND	2.5V, 250mA LDO Regulator	8-SOIC	2.36	1.89	1.47
REG102UA-2.85	REG102UA-2.85-ND	2.85V, 250mA LDO Regulator	8-SOIC	2.36	1.89	1.47
REG102UA-3	REG102UA-3-ND	3V, 250mA LDO Regulator	8-SOIC	2.36	1.89	1.47
REG102UA-3.3	REG102UA-3.3-ND	3.3V, 250mA LDO Regulator	8-SOIC	2.36	1.89	1.47
REG102UA-5	REG102UA-5-ND	5V, 250mA LDO Regulator	8-SOIC	2.36	1.89	1.47
REG103FA-AKTTT	296-15998-1-ND	Adj., 500mA LDO Regulator	5-DDPAK	5.62	4.50	—
REG103FA-AKTTT	296-15998-2-ND	Adj., 500mA LDO Regulator	5-DDPAK	189.70/50		
REG103FA-A/500	296-15940-1-ND	Adj., 500mA LDO Regulator	5-DDPAK	5.62	4.50	3.80
REG103FA-A/500	296-15940-2-ND	Adj., 500mA LDO Regulator	5-DDPAK	1784.50/500		
REG103FA-2.5	REG103FA-2.5-ND	2.5V, 500mA LDO Regulator	5-DDPAK	5.04	4.04	3.41
REG103FA-2.5/500	296-15935-1-ND	2.5V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	3.80
REG103FA-2.5/500	296-15935-2-ND	2.5V, 500mA LDO Regulator	5-DDPAK	1784.50/500		
REG103FA-2.5KTTT	296-15993-1-ND	2.5V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	—
REG103FA-2.5KTTT	296-15993-2-ND	2.5V, 500mA LDO Regulator	5-DDPAK	189.70/50		
REG103FA-2.7	REG103FA-2.7-ND	2.7V, 500mA LDO Regulator	5-DDPAK	5.04	4.04	3.41
REG103FA-2.7/500	296-15936-1-ND	2.7V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	3.80
REG103FA-2.7/500	296-15936-2-ND	2.7V, 500mA LDO Regulator	5-DDPAK	1784.50/500		
REG103FA-2.7KTTT	296-15994-1-ND	2.7V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	—
REG103FA-2.7KTTT	296-15994-2-ND	2.7V, 500mA LDO Regulator	5-DDPAK	189.70/50		
REG103FA-3/500	296-15938-1-ND	3V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	3.80
REG103FA-3/500	296-15938-2-ND	3V, 500mA LDO Regulator	5-DDPAK	1784.50/500		
REG103FA-3KTTT	296-15995-1-ND	3V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	—
REG103FA-3KTTT	296-15995-2-ND	3V, 500mA LDO Regulator	5-DDPAK	189.70/50		
REG103FA-3.3/500	296-15937-1-ND	3.3V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	3.80
REG103FA-3.3/500	296-15937-2-ND	3.3V, 500mA LDO Regulator	5-DDPAK	1784.50/500		
REG103FA-3.3KTTT	296-15996-1-ND	3.3V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	—
REG103FA-3.3KTTT	296-15996-2-ND	3.3V, 500mA LDO Regulator	5-DDPAK	189.70/50		
REG103FA-5/500	296-15939-1-ND	5V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	3.80
REG103FA-5/500	296-15939-2-ND	5V, 500mA LDO Regulator	5-DDPAK	1784.50/500		
REG103FA-5KTTT	296-15997-1-ND	5V, 500mA LDO Regulator	5-DDPAK	5.62	4.50	—
REG103FA-5KTTT	296-15997-2-ND	5V, 500mA LDO Regulator	5-DDPAK	189.70/50		
REG103GA-A	REG103GA-A-ND	Adj., CMOS 500mA LDO Regulator	SOT-223-5	4.97	3.98	3.10
REG103GA-2.5	REG103GA-2.5-ND	2.5V CMOS 500mA LDO Regulator	SOT-223-5	4.97	3.98	3.10
REG103GA-2.7	REG103GA-2.7-ND	2.7V CMOS 500mA LDO Regulator	SOT-223-5	4.97	3.98	3.10
REG103GA-3	REG103GA-3-ND	3V CMOS 500mA LDO Regulator	SOT-223-5	4.97	3.98	3.10
REG103GA-3.3	REG103GA-3.3-ND	3.3V CMOS 500mA LDO Regulator	SOT-223-5	4.97	3.98	3.10
REG103GA-5	REG103GA-5-ND	5V CMOS 500mA LDO Regulator	SOT-223-5	4.97	3.98	3.10
REG103UA-A	REG103UA-A-ND	Adj., DMOS 500mA LDO Regulator	8-SOIC	4.79	3.84	2.99
REG103UA-2.5	REG103UA-2.5-ND	2.5V DMOS 500mA LDO Regulator	8-SOIC	4.79	3.84	2.99
REG103UA-2.7	REG103UA-2.7-ND	2.7V DMOS 500mA LDO Regulator	8-SOIC	4.79	3.84	2.99
REG103UA-3	REG103UA-3-ND	3V DMOS 500mA LDO Regulator	8-SOIC	4.79	3.84	2.99
REG103UA-3.3	REG103UA-3.3-ND	3.3V DMOS 500mA LDO Regulator	8-SOIC	4.79	3.84	2.99
REG103UA-5	REG103UA-5-ND	5V DMOS 500mA LDO Regulator	8-SOIC	4.79	3.84	2.99
REG104FA-AKTTT	296-16004-1-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK	5.52	4.42	—
REG104FA-AKTTT	296-16004-2-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK	186.30/50		
REG104FA-A/500	296-15907-1-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK	5.52	4.42	3.73
REG104FA-A/500	296-15907-2-ND	Adj., CMOS 1A LDO Regulator	5-DDPAK	1752.50/500		
REG104FA-2.5/500	REG104FA-2.5TR-ND	2.5V CMOS 1A LDO Regulator	5-DDPAK	1752.50/500		
REG104FA-2.5KTTT	296-15999-1-ND	2.5V CMOS 1A LDO Regulator	5-DDPAK	5.52	4.42	—
REG104FA-2.5KTTT	296-15999-2-ND	2.5V CMOS 1A LDO Regulator	5-DDPAK	186.30/50		
REG104FA-2.7/500	296-15906-1-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK	5.52	4.42	3.73
REG104FA-2.7/500	296-15906-2-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK	1752.50/500		
REG104FA-2.7KTTT	296-16000-1-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK	5.52	4.42	—
REG104FA-2.7KTTT	296-16000-2-ND	2.7V CMOS 1A LDO Regulator	5-DDPAK	186.30/50		
REG104FA-3/500	REG104FA-3TR-ND	3V CMOS 1A LDO Regulator	5-DDPAK	1752.50/500		
REG104FA-3KTTT	296-16001-1-ND	3V CMOS 1A LDO Regulator	5-DDPAK	5.52	4.42	—
REG104FA-3KTTT	296-16001-2-ND	3V CMOS 1A LDO Regulator	5-DDPAK	186.30/50		
REG104FA-3.3/500	REG104FA-3.3TR-ND	3.3V CMOS 1A LDO Regulator	5-DDPAK	1752.50/500		
REG104FA-3.3KTTT	296-16002-1-ND	3.3V CMOS 1A LDO Regulator	5-DDPAK	5.52	4.42	—
REG104FA-3.3KTTT	296-16002-2-ND	3.3V CMOS 1A LDO Regulator	5-DDPAK	186.30/50		
REG104FA-5/500	REG104FA-5TR-ND	5V CMOS 1A LDO Regulator	5-DDPAK	1752.50/500		
REG104FA-5KTTT	296-16003-1-ND	5V CMOS 1A LDO Regulator	5-DDPAK	5.52	4.42	—
REG104FA-5KTTT	296-16003-2-ND	5V CMOS 1A LDO Regulator	5-DDPAK	186.30/50		
REG104GA-A	REG104GA-A-ND	Adj., CMOS 1A LDO Regulator	6-SOP	5.02	4.02	3.13
REG104GA-2.5	REG104GA-2.5-ND	2.5V CMOS 1A LDO Regulator	SOT-223-5	5.02	4.02	3.13
REG104GA-2.5/2K5	REG104GA-2.5TR-ND	2.5V CMOS 1A LDO Regulator	SOT-223-5	7025.00/2,500		
REG104GA-3	REG104GA-3-ND	3V CMOS 1A LDO Regulator	SOT-223-5	5.02	4.02	3.13
REG104GA-3.3	REG104GA-3.3-ND	3.3V CMOS 1A LDO Regulator	SOT-223-5	5.02	4.02	3.13
REG104GA-3.3/2K5	REG104GA-3.3TR-ND	3.3V CMOS 1A LDO Regulator	SOT-223-5	7025.00/2,500		
REG104GA-5	REG104GA-5-ND	5V CMOS 1A LDO Regulator	SOT-223-5	5.02	4.02	3.13
REG104GA-5/2K5	REG104GA-5TR-ND	5V CMOS 1A LDO Regulator	SOT-223-5	7025.00/2,500		
REG113EA2.5/2K5	REG113EA2.52K5CT-ND	2.5V, 400mA DMOS LDO Regulator	8-TSSOP	2.57	2.06	1.60
REG113EA2.5/2K5	REG113EA2.52K5TR-ND	2.5V, 400mA DMOS LDO Regulator	8-TSSOP	3590.00/2,500		
REG113EA-2.85/2K5	REG113EA2.852K5CT-ND	2.85V, 400mA DMOS LDO Regulator	8-TSSOP	2.57	2.06	1.60
REG113EA-2.85/2K5	REG113EA2.852K5TR-ND	2.85V, 400mA DMOS LDO Regulator	8-TSSOP	3590.00/2,500		
REG113EA-3/2K5	REG113EA-3/2K5CT-ND	3V, 400mA DMOS LDO Regulator	8-TSSOP	2.57	2.06	1.60
REG113EA-3/2K5	REG113EA-3/2K5TR-ND	3V, 400mA DMOS LDO Regulator	8-TSSOP	3590.00/2,500		
REG113EA-3.3/250	REG113EA3.3/250CT-ND	3.3V, 400mA DMOS LDO Regulator	8-TSSOP	2.88	2.31	1.80
REG113EA-3.3/250	REG113EA3.3/250TR-ND	3.3V, 400mA DMOS LDO Regulator	8-TSSOP	425.50/250		
REG113EA-5/2K5	REG113EA-5/2K5CT-ND	5V, 400mA DMOS LDO Regulator	8-TSSOP	2.57	2.06	1.60
REG113EA-5/2K5	REG113EA-5/2K5TR-ND	5V, 400mA DMOS LDO Regulator	8-TSSOP	3590.00/2,500		
REG113NA-2.5/3K	REG113NA-2.5/3KCT-ND	2.5V, 400mA LDO Regulator	SOT-23-5	2.63	2.10	1.58
REG113NA-2.5/3K	REG113NA-2.5/3KTR-ND	2.5V, 400mA LDO Regulator	SOT-23-5	3969.00/3,000		
REG113NA-2.85/3K	REG113NA2.853KCT-ND	2.85V, 400mA LDO Regulator	SOT-23-5	2.63	2.10	1.58
REG113NA-2.85/3K	REG113NA2.853KTR-ND	2.85V, 400mA LDO Regulator	SOT-23-5	3969.00/3,000		
REG113NA-3/3K	REG113NA-3/3KCT-ND	3V, 400mA LDO Regulator	SOT-23-5	2.63	2.10	1.58
REG113NA-3/3K	REG113NA-3/3KTR-ND	3V, 400mA LDO Regulator	SOT-23-5	3969.00/3,000		
REG113NA-3.3/3K	REG113NA-3.3/3KCT-ND	3.3V, 400mA LDO Regulator	SOT-23-5	2.63	2.10	1.58
REG113NA-3.3/3K	REG113NA-3.3/3KTR-ND	3.3V, 400mA LDO Regulator	SOT-23-5	3969.00/3,000		
REG113NA-5/3K	REG113NA-5/3KCT-ND	5V, 400mA LDO Regulator	SOT-23-5	2.63	2.10	1.58
REG113NA-5/3K	REG113NA-5/3KTR-ND	5V, 400mA LDO Regulator	SOT-23-5	3969.00/3,000		
REG1117	REG1117-ND	Adj., LDO Positive Regulator	SOT-223	1.90	1.52	1.14

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
REG1117-2.85	REG1117-2.85-ND	2.85V LDO Positive Regulator	SOT-223	1.90	1.52	1.14
REG1117-3.3	REG1117-3.3-ND	3.30V LDO Positive Regulator	SOT-223	1.90	1.52	1.14
REG1117-5	REG1117-5-ND	5V LDO Positive Regulator	SOT-223	1.90	1.52	1.14
REG1117A	REG1117A-ND	Adj., 1A LDO Positive Regulator	SOT-223	2.03	1.62	1.22
REG1117A-1.8	REG1117A-1.8-ND	1.8V, 1A LDO Regulator	SOT-223	2.03	1.62	1.22
REG1117A-2.5	REG1117A-2.5-ND	2.5V, 1A LDO Regulator	SOT-223	2.03	1.62	1.22
REG1117F-3.3/500	296-15941-1-ND	3.3V, 1A LDO Regulator	3-DDPAK	2.45	1.97	1.53
REG1117F-3.3/500	296-15941-2-ND	3.3V, 1A LDO Regulator	3-DDPAK	708.50/500		
REG1117F-3.3KTTT	296-16005-1-ND	3.3V, 800mA LDO Regulator	3-DDPAK	2.45	1.97	—
REG1117F-3.3KTTT	296-16005-2-ND	3.3V, 800mA LDO Regulator	3-DDPAK	76.30/50		
REG1117FA/500	296-15942-1-ND	Adj., 1A LDO Regulator	3-DDPAK	2.68	2.15	1.67
REG1117FA/500	296-15942-2-ND	Adj., 1A LDO Regulator	3-DDPAK	773.50/500		
REG1117FAKTTT	296-16006-1-ND	Adj., 1A LDO Regulator	3-DDPAK	2.68	2.15	—
REG1117FAKTTT	296-16006-2-ND	Adj., 1A LDO Regulator	3-DDPAK	83.30/50		
REG1117FA-1.8/500	296-15908-1-ND	1.8V, 1A LDO Regulator	3-DDPAK	2.68	2.15	1.67
REG1117FA-1.8/500	296-15908-2-ND	1.8V, 1A LDO Regulator	3-DDPAK	773.50/500		
REG1117FA-1.8KTTT	296-16007-1-ND	1.8V, 1A LDO Regulator	3-DDPAK	2.68	2.15	—
REG1117FA-1.8KTTT	296-16007-2-ND	1.8V, 1A LDO Regulator	3-DDPAK	83.30/50		
REG1117FA-2.5/500	296-15909-1-ND	2.5V, 1A LDO Regulator	3-DDPAK	2.68	2.15	1.67
REG1117FA-2.5/500	296-15909-2-ND	2.5V, 1A LDO Regulator	3-DDPAK	773.50/500		
REG1117FA-2.5KTTT	296-16008-1-ND	2.5V, 1A LDO Regulator	3-DDPAK	2.68	2.15	—
REG1117FA-2.5KTTT	296-16008-2-ND	2.5V, 1A LDO Regulator	3-DDPAK	83.30/50		
REG1117FA-5.0/500	296-15910-1-ND	5V, 1A LDO Regulator	3-DDPAK	2.68	2.15	1.67
REG1117FA-5.0/500	296-15910-2-ND	5V, 1A LDO Regulator	3-DDPAK	773.50/500		
REG1117FA-5.0KTTT	296-16009-1-ND	5V, 1A LDO Regulator	3-DDPAK	2.68	2.15	—
REG1117FA-5.0KTTT	296-16009-2-ND	5V, 1A LDO Regulator	3-DDPAK	83.30/50		
REG1118-2.85	REG1118-2.85-ND	2.85V LDO Regulator with Source/Sink Capability	SOT-223	2.25	1.80	1.35
SN105125DBVR	296-15347-1-ND	150mA LDO Regulator with POK	5-SOP	.87	.73	.58
SN105125DBVR	296-15347-2-ND	150mA LDO Regulator with POK	5-SOP	1131.00/3,000		
TL750L05CD	296-8000-5-ND	5V, LDO Voltage Regulator	8-SOIC	.68	.51	.39
TL750L05CDR	296-15014-1-ND	5V, LDO Voltage Regulator	8-SOIC	.68	.51	.39
TL750L05CDR	296-15014-2-ND	5V, LDO Voltage Regulator	8-SOIC	552.50/2,500		
TL750L05CKC	296-8001-5-ND	5V, LDO Voltage Regulator	TO-220AB	.75	.63	.50
TL750L05CKTER	296-13797-1-ND	5V, LDO Voltage Regulator	3-PFM	.84	.70	.56
TL750L05CKTER	296-13797-2-ND	5V, LDO Voltage Regulator	3-PFM	744.00/2,000		
TL750L05CLP	296-8002-5-ND	5V, LDO Voltage Regulator	TO-92	.68	.51	.39
TL750L08CD	296-8004-5-ND	8V, 150mA LDO Regulator	8-SOIC	.68	.51	.39
TL750L08CLP	296-8005-5-ND	8V, 150mA LDO Regulator	TO-92	.68	.51	.39
TL750L10CD	296-8006-5-ND	10V, 150mA LDO Regulator	8-SOIC	.68	.51	.39
TL750L10CLPR	296-8007-1-ND	10V, 150mA LDO Regulator	TO-92	.68	.51	.39
TL750L10CLPR	296-8007-2-ND	10V, 150mA LDO Regulator	TO-92	452.00/2,000		
TL750L12CD	296-8008-5-ND	12V, 150mA LDO Regulator	8-SOIC	.68	.51	.39
TL750L12CLP	296-8009-5-ND	12V, 150mA LDO Regulator	TO-92	.68	.51	.39
TL750M05CKC	296-18891-5-ND	5V, LDO Voltage Regulator	TO-220	1.14	.95	.76
TL750M05CKTER	296-18892-1-ND	5V, LDO Voltage Regulator	3-PFM	1.17	.98	.78
TL750M05CKTER	296-18892-2-ND	5V, LDO Voltage Regulator	3-PFM	1038.00/2,000		
TL750M05CKTPR	296-17613-1-ND	5V, LDO Voltage Regulator	2-PFM	1.08	.90	.72
TL750M05CKTPR	296-17613-2-ND	5V, LDO Voltage Regulator	2-PFM	1404.00/3,000		
TL750M10CKTER	296-18893-1-ND	10V, LDO Voltage Regulator	3-PFM	1.17	.98	.78
TL750M10CKTER	296-18893-2-ND	10V, LDO Voltage Regulator	3-PFM	1038.00/2,000		
TL750M10CKTPR	296-18894-1-ND	10V, LDO Voltage Regulator	2-PFM	1.08	.90	.72
TL750M10CKTPR	296-18894-2-ND	10V, LDO Voltage Regulator	2-PFM	1404.00/3,000		
TL751L05CD	296-8011-5-ND	5V, 150mA LDO Regulator	8-SOIC	.87	.73	.58
TL751L05CDR	296-15015-1-ND	5V, 150mA LDO Regulator	8-SOIC	.87	.73	.58
TL751L05CDR	296-15015-2-ND	5V, 150mA LDO Regulator	8-SOIC	942.50/2,500		
TL751L10CD	296-8012-5-ND	10V, 150mA LDO Regulator	8-SOIC	.87	.73	.58
TL751L10CP	296-8013-5-ND	10V, 150mA LDO Regulator	8-Dip	.87	.73	.58
TL751L12CDR	296-15016-1-ND	12V, 150mA LDO Regulator	8-SOIC	.87	.73	.58
TL751L12CDR	296-15016-2-ND	12V, 150mA LDO Regulator	8-SOIC	942.50/2,500		
TL7700CPSR	296-8015-1-ND	Supply-Voltage Supervisor	8-SOP	2.81	2.25	1.75
TL7700CPSR	296-8015-2-ND	Supply-Voltage Supervisor	8-SOP	3188.00/2,000		
TLV1117CDCYR	296-17598-1-ND	Adj., LDO Voltage Regulator	SOT-223	.64	.48	.36
TLV1117CDCYR	296-17598-2-ND	Adj., LDO Voltage Regulator	SOT-223	520.00/2,500		
TLV1117CDRJR	296-19515-1-ND	Adj., LDO Voltage Regulator ***NEW!***	8-SON	.72	.54	.41
TLV1117CDRJR	296-19515-2-ND	Adj., LDO Voltage Regulator ***NEW!***	8-SON	239.00/1,000		
TLV1117CKCS	296-17599-5-ND	Adj., LDO Voltage Regulator	TO-220	.88	.66	.50
TLV1117CKTER	296-17734-1-ND	Adj., LDO Voltage Regulator	3-PFM	.81	.68	.54
TLV1117CKTER	296-17734-2-ND	Adj., LDO Voltage Regulator	3-PFM	718.00/2,000		
TLV1117CKTPR	296-17735-1-ND	Adj., LDO Voltage Regulator	3-PFM	.80	.60	.45
TLV1117CKTPR	296-17735-2-ND	Adj., LDO Voltage Regulator	3-PFM	780.00/3,000		
TLV1117CKVURG3	296-19516-1-ND	Adj., LDO Voltage Regulator ***NEW!***	3-PFM	.72	.54	.41
TLV1117CKVURG3	296-19516-2-ND	Adj., LDO Voltage Regulator ***NEW!***	3-PFM	585.00/2,500		
TLV1117IDCYR	296-17600-1-ND	Adj., LDO Voltage Regulator	SOT-223	.72	.54	.41
TLV1117IDCYR	296-17600-2-ND	Adj., LDO Voltage Regulator	SOT-223	585.00/2,500		
TLV1117IDRJR	296-19517-1-ND	Adj., LDO Voltage Regulator ***NEW!***	8-SON	.80	.60	.45
TLV1117IDRJR	296-19517-2-ND	Adj., LDO Voltage Regulator ***NEW!***	8-SON	266.00/1,000		
TLV1117IKCS	296-17601-5-ND	Adj., LDO Voltage Regulator	TO-220	.96	.72	.54
TLV1117IKTER	296-17736-1-ND	Adj., LDO Voltage Regulator	3-PFM	.81	.68	.54
TLV1117IKTER	296-17736-2-ND	Adj., LDO Voltage Regulator	3-PFM	718.00/2,000		
TLV1117IKTPR	296-17737-1-ND	Adj., LDO Voltage Regulator	3-PFM	.80	.60	.45
TLV1117IKTPR	296-17737-2-ND	Adj., LDO Voltage Regulator	3-PFM	780.00/3,000		
TLV1117IKVURG3	296-19518-1-ND	Adj., LDO Voltage Regulator ***NEW!***	3-PFM	.80	.60	.45
TLV1117IKVURG3	296-19518-2-ND	Adj., LDO Voltage Regulator ***NEW!***	3-PFM	650.00/2,500		
TLV2217-18KCS	296-18905-1-ND	LDO 1.8V PnP Fixed Voltage Regulator	TO-220	.84	.70	—
TLV2217-18KCS	296-18905-2-ND	LDO 1.8V PnP Fixed Voltage Regulator	TO-220	28.00/50		
TLV2217-18KTPR	296-18906-1-ND	LDO 1.8V PnP Fixed Voltage Regulator	2-PFM	.84	.70	.56
TLV2217-18KTPR	296-18906-2-ND	LDO 1.8V PnP Fixed Voltage Regulator	2-PFM	1092.00/3,000		
TLV2217-18KVURG3	296-19519-1-ND	LDO 1.8V PnP Fixed Voltage Regulator ***NEW!***	3-PFM	.84	.70	.56
TLV2217-18KVURG3	296-19519-2-ND	LDO 1.8V Pnp Fixed Voltage Regulator ***NEW!***	3-PFM	910.00/2,500		
TLV2217-25KC	296-17624-ND	LDO 2.5V PnP Fixed Voltage Regulator	TO-220	1.32	1.10	.88
TLV2217-25KTPR	296-16031-1-ND	LDO 2.5V PnP Fixed Voltage Regulator	2-PFM	.84	.70	.56
TLV2217-25KTPR	296-16031-2-ND	LDO 2.5V PnP Fixed Voltage Regulator	2-PFM	1092.00/3,000		
TLV2217-25PWR	296-18907-1-ND	LDO 2.5V PnP Fixed Voltage Reg.	20-TSSOP	.84	.70	.56
TLV2217-25PWR	296-18907-2-ND	LDO 2.5V PnP Fixed Voltage Reg.	20-TSSOP	744.00/2,000		
TLV2217-33KC	296-10502-5-ND	LDO 3.3V PnP Fixed Voltage Reg.	TO-220AB	1.32	1.10	.88
TLV2217-33KTPR	296-10503-1-ND	LDO 3.3V PnP Fixed Voltage Regulator	2-PFM	.84	.70	.56
TLV2217-33KTPR	296-10503-2-ND	LDO 3.3V PnP Fixed Voltage Regulator	2-PFM	1092.00/3,000		
TLV2217-33PWR	296-12368-1-ND	LDO 3.3V PnP Fixed Voltage Reg.	20-TSSOP	.84	.70	.56
TLV2217-33PWR	296-12368-2-ND	LDO 3.3V PnP Fixed Voltage Reg.	20-TSSOP	744.00/2,000		
TPPM0110DWPR	296-10872-1-ND	5V, 1mA Dual LDO Regulator	20-HSOP	3.60	2.88	2.24
TPPM0110DWPR	296-10872-2-ND	5V, 1mA Dual LDO Regulator	20-HSOP	4080.00/2,000		
TPPM0111DWP	296-12507-5-ND	Dual LDO Linear Regulator	20-HSOP	3.60	2.88	2.24
TPPM0301DR	296-10873-1-ND	5V, 400mA LDO Voltage Regulator	8-SOIC	3.65	2.92	2.27
TPPM0301DR	296-10873-2-ND	5V, 400mA LDO Voltage Regulator	8-SOIC	5102.50/2,500		
TPPM0302DGN	296-10874-5-ND	5V, 400mA LDO Voltage Regulator	8-MSOP	3.65	2.92	2.27
TPPM0303DR	296-10875-1-ND	5V, 250mA LDO Regulator	8-SOIC	2.45	1.97	1.53
TPPM0303DR	296-10875-2-ND	5V, 250mA LDO Regulator	8-SOIC	3432.50/2,500		
TPS71H01QPWPR	296-8051-1-ND	Adjustable 500mA LDO Regulator	20-HTSSOP	4.95	3.96	3.08
TPS71H01QPWPR	296-8051-2-ND	Adjustable 500mA LDO Regulator	20-HTSSOP	5610.00/2,000		
TPS73HD301PWP	296-2666-5-ND	Dual Adjustable LDO Regulator	28-HTSSOP	4.73	3.78	2.94
TPS73HD318PWP	296-2667-5-ND	Dual 1.8/3.3V 750mA LDO Reg.	28-HTSSOP	4.73	3.78	2.94
TPS73HD318PWPR	296-2667-1-ND	Dual 1.8/3.3V 750mA LDO Reg.	28-HTSSOP	4.73	3.78	2.94
TPS73HD318PWPR	296-2667-2-ND	Dual 1.8/3.3V 750mA LDO Reg.	28-HTSSOP	5356.00/2,000		
TPS73HD325PWPR	296-8071-1-ND	Dual 2.5/3.3V 750mA LDO Reg.	28-HTSSOP	4.73	3.78	2.94
TPS73HD325PWPR	296-8071-2-ND	Dual 2.5/3.3V 750mA LDO Reg.	28-HTSSOP	5356.00/2,000		
TPS712XXEVM-050	296-17873-ND	Evaluation Module for TPS712XX-050	—	14.23	—	—
TPS715A01DRBT	296-17614-1-ND	1.2V-15V, 80mA LDO Linear Regulator	8-SON	1.44	1.20	.96
TPS715A01DRBT	296-17614-2-ND	1.2V-15V, 80mA LDO Linear Regulator	8-SON	180.00/250		
TPS715A33DRBT	296-17615-1-ND	3.3V, 80mA LDO Linear Regulator	8-SON	1.44	1.20	.96
TPS715A33DRBT	296-17615-2-ND	3.3V, 80mA LDO Linear Regulator	8-SON	180.00/250		
TPS767D301PWP	296-2740-5-ND	Dual Adj./3.3V LDO Regulator	28-HTSSOP	4.50	3.60	2.80
TPS767D301QPWPRQ1	296-19002-5-ND	Dual Adj./3.3V LDO Regulator	28-HTSSOP	5.18	4.14	3.22
TPS767D318QPWPRQ1	296-19003-5-ND	Dual 1.8/3.3V LDO Regulator	28-HTSSOP	5.18	4.14	3.22
TPS767D318PWP	296-2741-5-ND	Dual 1.8/3.3V LDO Regulator	28-HTSSOP	4.50	3.60	2.80
TPS767D325PWP	296-2742-5-ND	Dual 2.5/3.3V LDO Regulator	28-HTSSOP	4.50	3.60	2.80
TPS767D325QPWPRQ1	296-17532-1-ND	Dual 2.5/3.3V LDO Regulator	28-HTSSOP	5.18	4.14	3.22
TPS767D325QPWPRQ1	296-17532-2-ND	Dual 2.5/3.3V LDO Regulator	28-HTSSOP	5866.00/2,000		
TPS2140IPWP	296-12564-5-ND	Adj. LDO and 3.3V Switch with Dual Current Limit	14-HTSSOP	2.48	1.98	1.54
TPS2141IPWP	296-12565-5-ND	Adj. LDO and 5V Switch with Dual Current Limit	14-HTSSOP	2.48	1.98	1.54
TPS2150IPWP	296-12566-5-ND	Adj. LDO and 3.3V Switch with Dual Current Limit	14-HTSSOP	2.48	1.98	1.54
TPS2151IPWP	296-12567-5-ND	Adj. LDO and 5V Switch with Dual Current Limit	14-HTSSOP	2.48	1.98	1.54
TPS7101QDR	296-1359-1-ND	Adj. 1.2V-9.75V, 2A LDO Regulator	8-SOIC	2.81	2.25	1.75
TPS7101QDR	296-1359-2-ND	Adj. 1.2V-9.75V, 2A LDO Regulator	8-SOIC	3937.50/2,500		
TPS7101QP	296-8041-5-ND	Adj. 1.2V-9.75V, 2A LDO Regulator	8-Dip	2.81	2.25	1.75
TPS7101QPWR	296-8042-1-ND	Adj. 1.2V-9.75V, 2A LDO Regulator	20-TSSOP	2.81	2.25	1.75
TPS7101QPWR	296-8042-2-ND	Adj. 1.2V-9.75V, 2A LDO Regulator	20-TSSOP	3188.00/2,000		
TPS7133QD	296-2658-5-ND	3.3V, 500mA PMOS LDO Regulator	8-SOIC	2.81	2.25	1.75
TPS7133QP	296-8046-5-ND	3.3V, 500mA PMOS LDO Regulator	8-Dip	2.81	2.25	1.75
TPS7133QPWR	296-8047-1-ND	3.3V, 500mA PMOS LDO Regulator	20-TSSOP	2.81	2.25	1.75
TPS7133QPWR	296-8047-2-ND	3.3V, 500mA PMOS LDO Regulator	20-TSSOP	3188.00/2,000		
TPS7148QD	296-1961-5-ND	4.8V, 500mA LDO Regulator	8-SOIC	2.81	2.25	1.75
TPS7148QP	296-8048-5-ND	4.85V, 500mA LDO Regulator	8-Dip	2.81	2.25	1.75
TPS7150QD	296-8049-5-ND	5V, 500mA LDO Regulator	8-SOIC	2.81	2.25	1.75
TPS7150QP	296-8050-5-ND	5V, 500mA LDO Regulator	8-Dip	2.81	2.25	1.75
TPS7201QD	296-1360-5-ND	Adjustable 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7201QDR	296-1360-1-ND	Adjustable 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7201QDR	296-1360-2-ND	Adjustable 250mA LDO Regulator	8-SOIC	1920.00/2,500		
TPS7201QP	296-8052-5-ND	Adjustable 250mA LDO Regulator	8-Dip	1.50	1.20	.90
TPS7201QPWR	296-8053-1-ND	Adjustable 250mA LDO Regulator	8-TSSOP	1.50	1.20	.90
TPS7201QPWR	296-8053-2-ND	Adjustable 250mA LDO Regulator	8-TSSOP	1560.00/2,000		
TPS7225QD	296-1962-5-ND	2.5V, 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7225QP	296-1963-5-ND	2.5V, 250mA LDO Regulator	8-Dip	1.50	1.20	.90
TPS7225QPWR	296-8054-1-ND	2.5V, 250mA LDO Regulator	8-TSSOP	1.50	1.20	.90
TPS7225QPWR	296-8054-2-ND	2.5V, 250mA LDO Regulator	8-TSSOP	1560.00/2,000		
TPS7230QD	296-1964-5-ND	3.0V, 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7230QP	296-1965-5-ND	3.0V, 250mA LDO Regulator	8-Dip	1.50	1.20	.90
TPS7230QPWR	296-8055-1-ND	3.0V, 250mA LDO Regulator	8-TSSOP	1.50	1.20	.90
TPS7230QPWR	296-8055-2-ND	3.0V, 250mA LDO Regulator	8-TSSOP	1560.00/2,000		
TPS7233QD	296-1966-5-ND	3.3V, 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7233QP	296-8056-5-ND	3.3V, 250mA LDO Regulator	8-Dip	1.50	1.20	.90
TPS7233QPWR	296-8057-1-ND	3.3V, 250mA LDO Regulator	8-TSSOP	1.50	1.20	.90
TPS7233QPWR	296-8057-2-ND	3.3V, 250mA LDO Regulator	8-TSSOP	1560.00/2,000		
TPS7248QD	296-8058-5-ND	4.85V, 250mA PMOS LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7248QP	296-2659-5-ND	4.85V, 250mA PMOS LDO Regulator	8-Dip	1.50	1.20	.90
TPS7250QD	296-1361-5-ND	5.0V, 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7250QDR	296-1361-1-ND	5.0V, 250mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7250QDR	296-1361-2-ND	5.0V, 250mA LDO Regulator	8-SOIC	1920.00/2,500		
TPS7250QP	296-8059-5-ND	5.0V, 250mA LDO Regulator	8-Dip	1.50	1.20	.90
TPS7250QPWR	296-8060-1-ND	5.0V, 250mA LDO Regulator	8-TSSOP	1.50	1.20	.90
TPS7250QPWR	296-8060-2-ND	5.0V, 250mA LDO Regulator	8-TSSOP	1560.00/2,000		
TPS7301QD	296-1362-5-ND	Adjustable 500mA LDO Regulator	8-SOIC	2.36	1.89	1.47
TPS7301QDR	296-1362-1-ND	Adjustable 500mA LDO Regulator	8-SOIC	2.36	1.89	1.47
TPS7301QDR	296-1362-2-ND	Adjustable 500mA LDO Regulator	8-SOIC	3307.50/2,500		
TPS7301QP	296-2660-5-ND	Adjustable 500mA LDO Regulator	8-Dip	2.36	1.89	1.47
TPS7301QPW	296-8061-5-ND	Adjustable 500mA LDO Regulator	20-TSSOP	2.36	1.89	1.47
TPS7325QD	296-2661-5-ND	2.5V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7325QP	296-8062-5-ND	2.5V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.48	1.98	1.49
TPS7325QPWR	296-8063-1-ND	2.5V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.48	1.98	1.49
TPS7325QPWR	296-8063-2-ND	2.5V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2574.00/2,000		
TPS7330QD	296-2662-5-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7330QDR	296-2662-1-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7330QDR	296-2662-2-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-SOIC	3167.50/2,500		
TPS7330QP	296-8064-5-ND	3.0V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.48	1.98	1.49
TPS7330QPWR	296-8065-1-ND	3.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.48	1.98	1.49
TPS7330QPWR	296-8065-2-ND	3.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2574.00/2,000		
TPS7333QD	296-8066-5-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7333QDR	296-8066-1-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7333QDR	296-8066-2-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-SOIC	3167.50/2,500		
TPS7333QP	296-2663-5-ND	3.3V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.48	1.98	1.49

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS7333QPWR	296-8067-1-ND	3.3V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.48	1.98	1.49
TPS7333QPWR	296-8067-2-ND	3.3V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2574.00/2,000		
TPS7348QD	296-8068-5-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7348QDR	296-8068-1-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7348QDR	296-8068-2-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-SOIC	3167.50/2,500		
TPS7348QP	296-2664-5-ND	4.85V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.48	1.98	1.49
TPS7350QD	296-8069-5-ND	5.0V, 500mA LDO Regulator with Delayed Reset	8-SOIC	2.48	1.98	1.49
TPS7350QP	296-2665-5-ND	5.0V, 500mA LDO Regulator with Delayed Reset	8-Dip	2.48	1.98	1.49
TPS7350QPWR	296-8070-1-ND	5.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2.48	1.98	1.49
TPS7350QPWR	296-8070-2-ND	5.0V, 500mA LDO Regulator with Delayed Reset	20-TSSOP	2574.00/2,000		
TPS7415D	296-2668-5-ND	1.5V, 200mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7418D	296-2669-5-ND	1.8V, 200mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7425D	296-2670-5-ND	2.5V, 200mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7430D	296-2671-5-ND	3.0V, 200mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS7433D	296-2672-5-ND	3.3V, 200mA LDO Regulator	8-SOIC	1.50	1.20	.90
TPS70102PWP	296-2652-5-ND	Dual, Adj., 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70145PWP	296-2653-5-ND	Dual, 3.3/1.2V, 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70148PWP	296-2654-5-ND	Dual, 3.3/1.5V, 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70151PWP	296-2655-5-ND	Dual, 3.3/1.8V, 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70158PWP	296-2656-5-ND	Dual, 3.3/2.5V, 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70202PWP	296-8016-5-ND	Dual, Adj., 500mA LDO Reg.	20-HTSSOP	3.38	2.70	2.10
TPS70245PWP	296-8017-5-ND	Dual, 3.3V/1.2V, 500mA/250mA LDO Regulator	20-HTSSOP	3.38	2.70	2.10
TPS70248PWP	296-8018-5-ND	Dual, 3.3V/1.5V, 500mA/250mA LDO Regulator	20-HTSSOP	3.38	2.70	2.10
TPS70251PWP	296-8019-5-ND	Dual, 3.3V/1.8V, 500mA/250mA LDO Regulator	20-HTSSOP	3.38	2.70	2.10
TPS70258PWP	296-8020-5-ND	Dual, 3.3V/2.5V, 500mA/250mA LDO Regulator	20-HTSSOP	3.38	2.70	2.10
TPS70302PWP	296-8021-5-ND	Dual, Adj., 1A/2A LDO Regulator	24-HTSSOP	5.29	4.23	3.29
TPS70345PWP	296-8022-5-ND	Dual, 3.3V/1.2V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70348PWP	296-8023-5-ND	Dual, 3.3V/1.5V, 1A/2A LDO Reg.	20-HTSSOP	5.29	4.23	3.29
TPS70351PWP	296-8024-5-ND	Dual, 3.3V/1.8V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70358PWP	296-8025-5-ND	Dual, 3.3V/2.5V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70402PWP	296-8026-5-ND	Dual, Adj., 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70445PWP	296-8027-5-ND	Dual, 3.3V/1.2V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70448PWP	296-8028-5-ND	Dual, 3.3V/1.5V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70451PWP	296-8029-5-ND	Dual, 3.3V/1.8V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70458PWP	296-8030-5-ND	Dual, 3.3V/2.5V, 1A/2A LDO Reg.	24-HTSSOP	5.29	4.23	3.29
TPS70702PWP	296-8031-5-ND	Dual, Adj., 1A/2A LDO Reg.	20-HTSSOP	2.70	2.16	1.68
TPS70745PWP	296-8032-5-ND	Dual, 3.3V/1.2V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70748PWP	296-8033-5-ND	Dual, 3.3V/1.5V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70751PWP	296-8034-5-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70758PWP	296-8035-5-ND	Dual, 3.3V/2.5V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70802PWP	296-8036-5-ND	Dual, Adjustable, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70845PWP	296-8037-5-ND	Dual, 3.3V/1.2V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70848PWP	296-8038-5-ND	Dual, 3.3V/1.5V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70851PWP	296-8039-5-ND	Dual, 3.3V/1.8V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS70858PWP	296-8040-5-ND	Dual, 3.3V/2.5V, 250mA/125mA LDO Regulator	20-HTSSOP	2.70	2.16	1.68
TPS71025D	296-8043-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	2.81	2.25	1.75
TPS71025DR	296-8043-1-ND	2.5V, 500mA LDO Regulator	8-SOIC	2.81	2.25	1.75
TPS71025DR	296-8043-2-ND	2.5V, 500mA LDO Regulator	8-SOIC	3937.50/2,500		
TPS71025P	296-2657-5-ND	2.5V, 500mA LDO Regulator	8-Dip	2.81	2.25	1.75
TPS71025PWR	296-8045-1-ND	2.5V, 500mA LDO Regulator	20-TSSOP	2.81	2.25	1.75
TPS71025PWR	296-8045-2-ND	2.5V, 500mA LDO Regulator	20-TSSOP	3188.00/2,000		
TPS71202DRCT	296-17696-1-ND	Dual 250mA Output, LDO Linear Regulator	10-SON	2.25	1.80	1.35
TPS71202DRCT	296-17696-2-ND	Dual 250mA Output, LDO Linear Regulator	10-SON	315.00/250		
TPS71219DRCT	296-17697-1-ND	1.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	2.25	1.80	1.35
TPS71219DRCT	296-17697-2-ND	1.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	315.00/250		
TPS71229DRCT	296-17698-1-ND	2.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	2.25	1.80	1.35
TPS71229DRCT	296-17698-2-ND	2.8V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	315.00/250		
TPS71247DRCT	296-17699-1-ND	1.8V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	2.25	1.80	1.35
TPS71247DRCT	296-17699-2-ND	1.8V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	315.00/250		
TPS71256DRCT	296-18281-1-ND	2.8V/2.8V, Dual 250mA Output, Ultra Low Noise, High PSRR, LDO Regulator	10-SON	2.25	1.80	1.35
TPS71256DRCT	296-18281-2-ND	2.8V/2.8V, Dual 250mA Output, Ultra Low Noise, High PSRR, LDO Regulator	10-SON	315.00/250		
TPS71257DRCT	296-17700-1-ND	2.85V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	2.25	1.80	1.35
TPS71257DRCT	296-17700-2-ND	2.85V/2.85V, Dual 250mA Output, LDO Linear Regulator	10-SON	315.00/250		
TPS71319DRCT	296-17739-1-ND	1.8V/Adj., Dual 250mA, Ultra Low Noise, High PSRR LDO Linear Regulator	10-SON	2.48	1.98	1.49
TPS71319DRCT	296-17739-2-ND	1.8V/Adj., Dual 250mA, Ultra Low Noise, High PSRR LDO Linear Regulator	10-SON	346.50/250		
TPS71334DRCT	296-17701-1-ND	3.3V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	2.48	1.98	1.49
TPS71334DRCT	296-17701-2-ND	3.3V/Adj., Dual 250mA Output, LDO Linear Regulator	10-SON	346.50/250		

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS71501DCKR	296-12957-1-ND	High Input Voltage, Micropower, LDO Linear Regulator	SC70-5	1.02	.85	.68
TPS71501DCKR	296-12957-2-ND	High Input Voltage, Micropower, LDO Linear Regulator	SC70-5	1326.00/3,000		
TPS71501QDCKRQ1	296-17748-1-ND	High Input Voltage, Micropower, LDO Linear Regulator	SC70-5	1.20	1.00	.80
TPS71501QDCKRQ1	296-17748-2-ND	High Input Voltage, Micropower, LDO Linear Regulator	SC70-5	1560.00/3,000		
TPS71518DCKR	296-18731-1-ND	1.8V, 50mA LDO Regulator	SC70-5	1.02	.85	.68
TPS71518DCKR	296-18731-2-ND	1.8V, 50mA LDO Regulator	SC70-5	1326.00/3,000		
TPS71519DCKR	296-19479-1-ND	24V, 50mA, LDO Regulator ***NEW!***	SC70-5	1.02	.85	.68
TPS71519DCKR	296-19479-2-ND	24V, 50mA, LDO Regulator ***NEW!***	SC70-5	1326.00/3,000		
TPS71523DCKR	296-19480-1-ND	24V, 50mA, LDO Regulator ***NEW!***	SC70-5	1.02	.85	.68
TPS71523DCKR	296-19480-2-ND	24V, 50mA, LDO Regulator ***NEW!***	SC70-5	1326.00/3,000		
TPS71525DCKR	296-12007-1-ND	2.5V, 50mA High Input LDO	SC70-5	1.02	.85	.68
TPS71525DCKR	296-12007-2-ND	2.5V, 50mA High Input LDO	SC70-5	1326.00/3,000		
TPS71530DCKR	296-15045-1-ND	3V, 50mA High Input LDO	SOT-323-5	1.02	.85	.68
TPS71530DCKR	296-15045-2-ND	3V, 50mA High Input LDO	SOT-323-5	1326.00/3,000		
TPS71533DCKR	296-12008-1-ND	3.3V, 50mA High Input LDO	SC70-5	1.02	.85	.68
TPS71533DCKR	296-12008-2-ND	3.3V, 50mA High Input LDO	SC70-5	1326.00/3,000		
TPS71550DCKR	296-15046-1-ND	5V, 50mA High Input LDO	SOT-323-5	1.02	.85	.68
TPS71550DCKR	296-15046-2-ND	5V, 50mA High Input LDO	SOT-323-5	1326.00/3,000		
TPS71550QDCKRQ1	296-18037-1-ND	24V, 50mA, 3.2µA Supply Current LDO Linear Regulator	SC70-5	1.20	1.00	.80
TPS71550QDCKRQ1	296-18037-2-ND	24V, 50mA, 3.2µA Supply Current LDO Linear Regulator	SC70-5	1560.00/3,000		
TPS717XXEVM-134	296-19614-ND	Evaluation Module for TPS717XX ***NEW!***	—	14.23	—	—
TPS72101DBVT	296-13004-1-ND	Low Input Voltage, Cap Free 150mA LDO Linear Regulator	SOT-23-5	1.35	1.13	.90
TPS72101DBVT	296-13004-2-ND	Low Input Voltage, Cap Free 150mA LDO Linear Regulator	SOT-23-5	168.75/250		
TPS72115DBVT	296-12518-1-ND	1.5V, 150mA LDO Regulator	SOT-23-5	1.35	1.13	.90
TPS72115DBVT	296-12518-2-ND	1.5V, 150mA LDO Regulator	SOT-23-5	168.75/250		
TPS72116DBVT	296-12519-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	1.35	1.13	.90
TPS72116DBVT	296-12519-2-ND	1.6V, 150mA LDO Regulator	SOT-23-5	168.75/250		
TPS72118DBVT	296-12520-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	1.35	1.13	.90
TPS72118DBVT	296-12520-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	168.75/250		
TPS72201DBVR	296-17874-1-ND	Adj., 50mA LDO Linear Regulator	SOT-23-5	1.23	1.03	.82
TPS72201DBVR	296-17874-2-ND	Adj., 50mA LDO Linear Regulator	SOT-23-5	1599.00/3,000		
TPS72201DBVT	296-15677-1-ND	Adj., 50mA LDO Linear Regulator	SOT-23-5	1.35	1.13	.90
TPS72201DBVT	296-15677-2-ND	Adj., 50mA LDO Linear Regulator	SOT-23-5	168.75/250		
TPS72215DBVT	296-12521-1-ND	1.5V, 50mA Low Vin, LDO Reg.	SOT-23-5	1.35	1.13	.90
TPS72215DBVT	296-12521-2-ND	1.5V, 50mA Low Vin, LDO Reg.	SOT-23-5	168.75/250		
TPS72216DBVT	296-12522-1-ND	1.6V, 50mA Low Vin, LDO Reg.	SOT-23-5	1.35	1.13	.90
TPS72216DBVT	296-12522-2-ND	1.6V, 50mA Low Vin, LDO Reg.	SOT-23-5	168.75/250		
TPS72218DBVT	296-12523-1-ND	1.8V, 50mA Low Vin, LDO Reg.	SOT-23-5	1.35	1.13	.90
TPS72218DBVT	296-12523-2-ND	1.8V, 50mA Low Vin, LDO Reg.	SOT-23-5	168.75/250		
TPS72301DBVT	296-15798-1-ND	Adj., 200mA LDO Regulator	SOT-23-5	2.70	2.16	1.68
TPS72301DBVT	296-15798-2-ND	Adj., 200mA LDO Regulator	SOT-23-5	399.00/250		
TPS72325DBVT	296-15799-1-ND	2.5V, 200mA LDO Regulator	SOT-23-5	2.70	2.16	1.68
TPS72325DBVT	296-15799-2-ND	2.5V, 200mA LDO Regulator	SOT-23-5	399.00/250		
TPS72501DCQR	296-13524-1-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	SOT-223-5	2.48	1.98	1.54
TPS72501DCQR	296-13524-2-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	SOT-223-5	3465.00/2,500		
TPS72501DT	296-13805-1-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	8-SOIC	4.61	3.69	2.87
TPS72501DT	296-13805-2-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	8-SOIC	681.75/250		
TPS72501KTTT	296-13525-1-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	DDPAK-5	2.93	2.34	1.82
TPS72501KTTT	296-13525-2-ND	Adj. Low Input Voltage, 1A LDO Linear Regulator with Supervisor	DDPAK-5	845.00/500		
TPS72515DCQR	296-12692-1-ND	1.5V, 1A LDO Linear Regulator	SOT-223-5	2.48	1.98	1.54
TPS72515DCQR	296-12692-2-ND	1.5V, 1A LDO Linear Regulator	SOT-223-5	3465.00/2,500		
TPS72515KTTT	296-12693-1-ND	1.5V, 1A LDO Linear Regulator	TO-263-5	2.93	2.34	—
TPS72515KTTT	296-12693-2-ND	1.5V, 1A LDO Linear Regulator	TO-263-5	91.00/50		
TPS72516DCQ	296-14393-5-ND	1.6V, 1A LDO Linear Regulator	SOT-223-5	2.48	1.98	1.54
TPS72516DCQR	296-14420-1-ND	1.6V, 1A LDO Linear Regulator	SOT-223-5	2.48	1.98	1.54
TPS72516DCQR	296-14420-2-ND	1.6V, 1A LDO Linear Regulator	SOT-223-5	3465.00/2,500		
TPS72516KTTT	296-15951-1-ND	1.6V, 1A LDO Linear Regulator	5-DDPAK	2.93	2.34	—
TPS72516KTTT	296-15951-2-ND	1.6V, 1A LDO Linear Regulator	5-DDPAK	91.00/50		
TPS72518DCQR	296-12694-1-ND	1.8V, 1A LDO Linear Regulator	SOT-223-5	2.48	1.98	1.54
TPS72518DCQR	296-12694-2-ND	1.8V, 1A LDO Linear Regulator	SOT-223-5	3465.00/2,500		
TPS72518KTTT	296-12695-1-ND	1.8V, 1A LDO Linear Regulator	TO-263-5	2.93	2.34	—
TPS72518KTTT	296-12695-2-ND	1.8V, 1A LDO Linear Regulator	TO-263-5	91.00/50		
TPS72525DCQR	296-12696-1-ND	2.5V, 1A LDO Linear Regulator	SOT-223-5	2.48	1.98	1.54
TPS72525DCQR	296-12696-2-ND	2.5V, 1A LDO Linear Regulator	SOT-223-5	3465.00/2,500		
TPS72525KTTT	296-12697-1-ND	2.5V, 1A LDO Linear Regulator	TO-263-5	2.93	2.34	—
TPS72525KTTT	296-12697-2-ND	2.5V, 1A LDO Linear Regulator	TO-263-5	91.00/50		
TPS72615DCQR	296-12958-1-ND	1.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-5	2.48	1.98	1.54
TPS72615DCQR	296-12958-2-ND	1.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-5	3465.00/2,500		
TPS72615KTTT	296-13751-1-ND	1.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	2.93	2.34	—
TPS72615KTTT	296-13751-2-ND	1.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	91.00/50		
TPS72616DCQR	296-13705-1-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-5	2.48	1.98	1.54
TPS72616DCQR	296-13705-2-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-5	3465.00/2,500		
TPS72616KTTT	296-13752-1-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	2.93	2.34	—
TPS72616KTTT	296-13752-2-ND	1.6V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	91.00/50		
TPS72618DCQR	296-12959-1-ND	1.8V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-5	2.48	1.98	1.54
TPS72618DCQR	296-12959-2-ND	1.8V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-5	3465.00/2,500		
TPS72618KTTT	296-13753-1-ND	1.8V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	2.93	2.34	—

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS72618KTTT	296-13753-2-ND	1.8V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5		91.00/50	
TPS72625DCQR	296-12960-1-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-5	2.48	1.98	1.54
TPS72625DCQR	296-12960-2-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	SOT-223-5		3465.00/2,500	
TPS72625KTTT	296-13754-1-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5	2.93	2.34	—
TPS72625KTTT	296-13754-2-ND	2.5V, 1A Low Input Voltage, LDO Linear Regulator with Supervisor	DDPAK-5		91.00/50	
TPS73001DBVT	296-17576-1-ND	1.22V-5.5V LDO Regulator	SOT-23-5	.84	.63	.48
TPS73001DBVT	296-17576-2-ND	1.22V-5.5V LDO Regulator	SOT-23-5		87.25/250	
TPS73018DBVT	296-17577-1-ND	1.8V LDO Regulator	SOT-23-5	.84	.63	.48
TPS73018DBVT	296-17577-2-ND	1.8V LDO Regulator	SOT-23-5		87.25/250	
TPS73025DBVR	296-17578-1-ND	2.5V LDO Regulator	SOT-23-5	.76	.57	.43
TPS73025DBVR	296-17578-2-ND	2.5V LDO Regulator	SOT-23-5		741.00/3,000	
TPS73028DBVT	296-18063-1-ND	2.8V, 200mA, Low Noise, High PSRR, LDO Linear Regulator	SOT-23-5	.84	.63	.48
TPS73028DBVT	296-18063-2-ND	2.8V, 200mA, Low Noise, High PSRR, LDO Linear Regulator	SOT-23-5		87.25/250	
TPS73028YZQT	296-18734-1-ND	2.8V, 200mA, Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA	.78	.65	.52
TPS73028YZQT	296-18734-2-ND	2.8V, 200mA, Low Noise, High PSRR, LDO Linear Regulator	5-DSBGA		97.50/250	
TPS73030DBVT	296-17579-1-ND	3V LDO Regulator	SOT-23-5	.84	.63	.48
TPS73030DBVT	296-17579-2-ND	3V LDO Regulator	SOT-23-5		87.25/250	
TPS73033DBVR	296-17580-1-ND	3.3V LDO Regulator	SOT-23-5	.76	.57	.43
TPS73033DBVR	296-17580-2-ND	3.3V LDO Regulator	SOT-23-5		741.00/3,000	
TPS73101DBVT	296-15800-1-ND	Adj., 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73101DBVT	296-15800-2-ND	Adj., 150mA LDO Regulator	SOT-23-5		180.00/250	
TPS73115DBVT	296-15801-1-ND	1.5V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73115DBVT	296-15801-2-ND	1.5V, 150mA LDO Regulator	SOT-23-5		180.00/250	
TPS73118DBVT	296-15802-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73118DBVT	296-15802-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5		180.00/250	
TPS73125DBVT	296-15803-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73125DBVT	296-15803-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5		180.00/250	
TPS73130DBVT	296-15804-1-ND	3V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73130DBVT	296-15804-2-ND	3V, 150mA LDO Regulator	SOT-23-5		180.00/250	
TPS73132DBVT	296-17422-1-ND	3.2V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73132DBVT	296-17422-2-ND	3.2V, 150mA LDO Regulator	SOT-23-5		180.00/250	
TPS73133DBVT	296-15805-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73133DBVT	296-15805-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5		180.00/250	
TPS73150DBVT	296-15806-1-ND	5V, 150mA LDO Regulator	SOT-23-5	1.44	1.20	.96
TPS73150DBVT	296-15806-2-ND	5V, 150mA LDO Regulator	SOT-23-5		180.00/250	
TPS73201DBVT	296-15807-1-ND	Adj., 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73201DBVT	296-15807-2-ND	Adj., 250mA LDO Regulator	SOT-23-5		248.50/250	
TPS73201DCQR	296-16861-1-ND	Adj., 250mA LDO Regulator	SOT-223-5	1.78	1.42	1.07
TPS73201DCQR	296-16861-2-ND	Adj., 250mA LDO Regulator	SOT-223-5		2272.50/2,500	
TPS73201DRBT	296-18079-1-ND	Adj., 250mA LDO Regulator	8-SON	1.78	1.42	1.07
TPS73201DRBT	296-18079-2-ND	Adj., 250mA LDO Regulator	8-SON		248.50/250	
TPS73215DBVT	296-15808-1-ND	1.5V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73215DBVT	296-15808-2-ND	1.5V, 250mA LDO Regulator	SOT-23-5		248.50/250	
TPS73215DCQR	296-16862-1-ND	1.5V, 250mA LDO Regulator	SOT-223-5	1.78	1.42	1.07
TPS73215DCQR	296-16862-2-ND	1.5V, 250mA LDO Regulator	SOT-223-5		2272.50/2,500	
TPS73216DBVT	296-17423-1-ND	1.6V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73216DBVT	296-17423-2-ND	1.6V, 250mA LDO Regulator	SOT-23-5		248.50/250	
TPS73218DBVT	296-15809-1-ND	1.8V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73218DBVT	296-15809-2-ND	1.8V, 250mA LDO Regulator	SOT-23-5		248.50/250	
TPS73218DCQR	296-16863-1-ND	1.8V, 250mA LDO Regulator	SOT-223-5	1.78	1.42	1.07
TPS73218DCQR	296-16863-2-ND	1.8V, 250mA LDO Regulator	SOT-223-5		2272.50/2,500	
TPS73225DBVT	296-15810-1-ND	2.5V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73225DBVT	296-15810-2-ND	2.5V, 250mA LDO Regulator	SOT-23-5		248.50/250	
TPS73225DCQR	296-16864-1-ND	2.5V, 250mA LDO Regulator	SOT-223-5	1.78	1.42	1.07
TPS73225DCQR	296-16864-2-ND	2.5V, 250mA LDO Regulator	SOT-223-5		2272.50/2,500	
TPS73230DBVT	296-15811-1-ND	3V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73230DBVT	296-15811-2-ND	3V, 250mA LDO Regulator	SOT-23-5		248.50/250	
TPS73230DCQR	296-16865-1-ND	3V, 250mA LDO Regulator	SOT-223-5	1.78	1.42	1.07
TPS73230DCQR	296-16865-2-ND	3V, 250mA LDO Regulator	SOT-223-5		2272.50/2,500	
TPS73233DBVT	296-15812-1-ND	3.3V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73233DBVT	296-15812-2-ND	3.3V, 250mA LDO Regulator	SOT-23-5		248.50/250	
TPS73233DCQR	296-16866-1-ND	3.3V, 250mA LDO Regulator	SOT-223-5	1.78	1.42	1.07
TPS73233DCQR	296-16866-2-ND	3.3V, 250mA LDO Regulator	SOT-223-5		2272.50/2,500	
TPS73250DBVT	296-15813-1-ND	5V, 250mA LDO Regulator	SOT-23-5	1.78	1.42	1.07
TPS73250DBVT	296-15813-2-ND	5V, 250mA LDO Regulator	SOT-23-5		248.50/250	
TPS73250DCQR	296-16867-1-ND	5V, 250mA LDO Regulator	SOT-223-5	1.78	1.42	1.07
TPS73250DCQR	296-16867-2-ND	5V, 250mA LDO Regulator	SOT-223-5		2272.50/2,500	
TPS73601DBVT	296-15814-1-ND	Adj., 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73601DBVT	296-15814-2-ND	Adj., 400mA LDO Regulator	SOT-23-5		315.00/250	
TPS73601DCQR	296-16909-1-ND	Adj., 400mA LDO Regulator	SOT-223-5	2.25	1.80	1.35
TPS73601DCQR	296-16909-2-ND	Adj., 400mA LDO Regulator	SOT-223-5		2880.00/2,500	
TPS73601DRBT	296-17620-1-ND	Adj., 400mA LDO Regulator	8-SON	2.38	1.90	1.43
TPS73601DRBT	296-17620-2-ND	Adj., 400mA LDO Regulator	8-SON		332.50/250	
TPS73615DBVT	296-15815-1-ND	1.5V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73615DBVT	296-15815-2-ND	1.5V, 400mA LDO Regulator	SOT-23-5		315.00/250	
TPS73615DCQR	296-16910-1-ND	1.5V, 400mA LDO Regulator	SOT-223-5	2.25	1.80	1.35
TPS73615DCQR	296-16910-2-ND	1.5V, 400mA LDO Regulator	SOT-223-5		2880.00/2,500	
TPS73615DRBT	296-18640-1-ND	1.5V, 400mA LDO Regulator	8-SON	2.38	1.90	1.43
TPS73615DRBT	296-18640-2-ND	1.5V, 400mA LDO Regulator	8-SON		332.50/250	
TPS73618DBVT	296-15816-1-ND	1.8V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73618DBVT	296-15816-2-ND	1.8V, 400mA LDO Regulator	SOT-23-5		315.00/250	
TPS73618DCQR	296-16911-1-ND	1.8V, 400mA LDO Regulator	SOT-223-5	2.25	1.80	1.35
TPS73618DCQR	296-16911-2-ND	1.8V, 400mA LDO Regulator	SOT-223-5		2880.00/2,500	
TPS73625DBVT	296-15817-1-ND	2.5V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73625DBVT	296-15817-2-ND	2.5V, 400mA LDO Regulator	SOT-23-5		315.00/250	
TPS73625DCQR	296-16912-1-ND	2.5V, 400mA LDO Regulator	SOT-223-5	2.25	1.80	1.35
TPS73625DCQR	296-16912-2-ND	2.5V, 400mA LDO Regulator	SOT-223-5		2880.00/2,500	
TPS73630DBVT	296-15818-1-ND	3V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73630DBVT	296-15818-2-ND	3V, 400mA LDO Regulator	SOT-23-5		315.00/250	
TPS73630DCQR	296-16913-1-ND	3V, 400mA LDO Regulator	SOT-223-5	2.25	1.80	1.35
TPS73630DCQR	296-16913-2-ND	3V, 400mA LDO Regulator	SOT-223-5		2880.00/2,500	
TPS73632DBVT	296-17424-1-ND	3.2V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73632DBVT	296-17424-2-ND	3.2V, 400mA LDO Regulator	SOT-23-5		315.00/250	
TPS73633DBVT	296-15819-1-ND	3.3V, 400mA LDO Regulator	SOT-23-5	2.25	1.80	1.35
TPS73633DBVT	296-15819-2-ND	3.3V, 400mA LDO Regulator	SOT-23-5		315.00/250	
TPS73633DCQR	296-16914-1-ND	3.3V, 400mA LDO Regulator	SOT-223-5	2.25	1.80	1.35
TPS73633DCQR	296-16914-2-ND	3.3V, 400mA LDO Regulator	SOT-223-5		2880.00/2,500	
TPS73633DRBR	296-17884-1-ND	3.3V, 400mA LDO Regulator	8-SON	2.25	1.80	1.35
TPS73633DRBR	296-17884-2-ND	3.3V, 400mA LDO Regulator	8-SON		3456.00/3,000	
TPS73633EVM-066	296-19001-ND	Evaluation Module for TPS73633-066	—	14.23	—	—
TPS73643DBVR	296-17498-1-ND	4.3V, 400mA LDO Regulator	SOT-23-5	2.03	1.62	1.22
TPS73643DBVR	296-17498-2-ND	4.3V, 400mA LDO Regulator	SOT-23-5		3111.00/3,000	
TPS73701DCQ	296-19481-5-ND	1A, LDO Regulator ***NEW!***	SOT-223-6	1.50	1.20	.90
TPS75101QPWP	296-2673-5-ND	Adj., 1.5A LDO Regulator	20-HTSSOP	3.60	2.88	2.24
TPS75115QPWP	296-2674-5-ND	1.5V, 1.5A LDO Regulator	20-HTSSOP	3.60	2.88	2.24
TPS75118QPWP	296-2675-5-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP	3.60	2.88	2.24
TPS75125QPWP	296-2676-5-ND	2.5V, 1.5A LDO Regulator	20-HTSSOP	3.60	2.88	2.24
TPS75133QPWP	296-2677-5-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP	3.60	2.88	2.24
TPS75201QPWP	296-2678-5-ND	Adj., 2A LDO Regulator	20-HTSSOP	4.05	3.24	2.52
TPS75215QPWP	296-2679-5-ND	1.5V, 2A LDO Regulator	20-HTSSOP	4.05	3.24	2.52
TPS75215QPWPREP	296-18154-1-ND	1.5V, 2A LDO Regulator	20-HTSSOP	7.66	6.13	5.18
TPS75215QPWPREP	296-18154-2-ND	1.5V, 2A LDO Regulator	20-HTSSOP		9576.00/2,000	
TPS75218QPWP	296-2680-5-ND	1.8V, 2A LDO Regulator	20-HTSSOP	4.05	3.24	2.52
TPS75218QPWPRQ1	296-15279-1-ND	1.8V, 2A LDO Regulator	20-HTSSOP	4.73	3.78	2.94
TPS75218QPWPRQ1	296-15279-2-ND	1.8V, 2A LDO Regulator	20-HTSSOP		5356.00/2,000	
TPS75225QPWP	296-2681-5-ND	2.5V, 2A LDO Regulator	20-HTSSOP	4.05	3.24	2.52
TPS75233QPWP	296-2682-5-ND	3.3V, 2A LDO Regulator	20-HTSSOP	4.05	3.24	2.52
TPS75233QPWPRQ1	296-15280-1-ND	3.3V, 2A LDO Regulator	20-HTSSOP	4.73	3.78	2.94
TPS75233QPWPRQ1	296-15280-2-ND	3.3V, 2A LDO Regulator	20-HTSSOP		5356.00/2,000	
TPS75301QPWP	296-2683-5-ND	Adj., 1.5A LDO Regulator	20-HTSSOP	3.83	3.06	2.38
TPS75301QPWPRQ1	296-15281-1-ND	Adj., 1.5A LDO Regulator	20-HTSSOP	4.50	3.60	2.80
TPS75301QPWPRQ1	296-15281-2-ND	Adj., 1.5A LDO Regulator	20-HTSSOP		5100.00/2,000	
TPS75315QPWP	296-2684-5-ND	1.5V, 1.5A LDO Regulator	20-HTSSOP	3.83	3.06	2.38
TPS75318QPWP	296-2685-5-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP	3.83	3.06	2.38
TPS75318QPWPRQ1	296-15282-1-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP	4.50	3.60	2.80
TPS75318QPWPRQ1	296-15282-2-ND	1.8V, 1.5A LDO Regulator	20-HTSSOP		5100.00/2,000	
TPS75325QPWP	296-2686-5-ND	2.5V, 1.5A LDO Regulator	20-HTSSOP	3.83	3.06	2.38
TPS75333QPWP	296-2687-5-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP	3.83	3.06	2.38
TPS75333QPWPRQ1	296-15283-1-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP	4.50	3.60	2.80
TPS75333QPWPRQ1	296-15283-2-ND	3.3V, 1.5A LDO Regulator	20-HTSSOP		5100.00/2,000	
TPS75401QPWP	296-2688-5-ND	Adjustable, 2A LDO Regulator	20-HTSSOP	3.94	3.15	2.45
TPS75415QPWP	296-2689-5-ND	1.5V, 2A LDO Regulator	20-HTSSOP	3.94	3.15	2.45
TPS75418QPWP	296-2690-5-ND	1.8V, 2A LDO Regulator	20-HTSSOP	3.94	3.15	2.45
TPS75425QPWP	296-2691-5-ND	2.5V, 2A LDO Regulator	20-HTSSOP	3.94	3.15	2.45
TPS75433QPWP	296-2692-5-ND	3.3V, 2A LDO Regulator	20-HTSSOP	3.94	3.15	2.45
TPS75501KC	296-10988-5-ND	Adj., 5A LDO Regulator	TO-220	6.00	4.80	4.05
TPS75501KTTT	296-15992-1-ND	Adj., 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75501KTTT	296-15992-2-ND	Adj., 5A LDO Regulator	TO-263-5		202.50/50	
TPS75515KC	296-10990-5-ND	1.5V, 5A LDO Regulator	TO-220	6.00	4.80	4.05
TPS75515KTTT	296-15911-1-ND	1.5V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75515KTTT	296-15911-2-ND	1.5V, 5A LDO Regulator	TO-263-5		202.50/50	
TPS75518KC	296-10992-5-ND	1.8V, 5A LDO Regulator	TO-220	6.00	4.80	4.05
TPS75518KTTT	296-15912-1-ND	1.8V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75518KTTT	296-15912-2-ND	1.8V, 5A LDO Regulator	TO-263-5		202.50/50	
TPS75525KC	296-10994-5-ND	2.5V, 5A LDO Regulator	TO-220	6.00	4.80	4.05
TPS75525KTTT	296-15913-1-ND	2.5V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75525KTTT	296-15913-2-ND	2.5V, 5A LDO Regulator	TO-263-5		202.50/50	
TPS75533KC	296-10996-5-ND	3.3V, 5A LDO Regulator	TO-220	6.00	4.80	4.05
TPS75533KTTT	296-15914-1-ND	3.3V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75533KTTT	296-15914-2-ND	3.3V, 5A LDO Regulator	TO-263-5		202.50/50	
TPS75601KC	296-11947-5-ND	Adj., 5A LDO Regulator	TO-220-5	6.00	4.80	4.05
TPS75601KTTT	296-15915-1-ND	Adj., 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75601KTTT	296-15915-2-ND	Adj., 5A LDO Regulator	TO-263-5		202.50/50	
TPS75615KC	296-11949-5-ND	1.5V, 5A LDO Regulator	TO-220-5	6.00	4.80	4.05
TPS75615KTTT	296-15916-1-ND	1.5V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75615KTTT	296-15916-2-ND	1.5V, 5A LDO Regulator	TO-263-5		202.50/50	
TPS75618KC	296-11951-5-ND	1.8V, 5A LDO Regulator	TO-220-5	6.00	4.80	4.05
TPS75618KTTT	296-15917-1-ND	1.8V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75618KTTT	296-15917-2-ND	1.8V, 5A LDO Regulator	TO-263-5		202.50/50	
TPS75625KC	296-11953-5-ND	2.5V, 5A LDO Regulator	TO-220-5	6.00	4.80	4.05
TPS75625KTTT	296-15918-1-ND	2.5V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75625KTTT	296-15918-2-ND	2.5V, 5A LDO Regulator	TO-263-5		202.50/50	
TPS75633KC	296-11955-5-ND	3.3V, 5A LDO Regulator	TO-220-5	6.00	4.80	4.05
TPS75633KTTT	296-15919-1-ND	3.3V, 5A LDO Regulator	TO-263-5	6.00	4.80	—
TPS75633KTTT	296-15919-2-ND	3.3V, 5A LDO Regulator	TO-263-5		202.50/50	
TPS75701KC	296-10998-5-ND	Adj., 3A LDO Regulator	TO-220	5.40	4.32	3.65
TPS75701KTTT	296-15920-1-ND	Adj., 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75701KTTT	296-15920-2-ND	Adj., 3A LDO Regulator	TO-263-5		182.25/50	
TPS75715KC	296-11000-5-ND	1.5V, 3A LDO Regulator	TO-220	5.40	4.32	3.65
TPS75715KTTT	296-15921-1-ND	1.5V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75715KTTT	296-15921-2-ND	1.5V, 3A LDO Regulator	TO-263-5		182.25/50	
TPS75718KC	296-11002-5-ND	1.8V, 3A LDO Regulator	TO-220	5.40	4.32	3.65
TPS75718KTTT	296-15922-1-ND	1.8V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75718KTTT	296-15922-2-ND	1.8V, 3A LDO Regulator	TO-263-5		182.25/50	
TPS75725KC	296-11004-5-ND	2.5V, 3A LDO Regulator	TO-220	5.40	4.32	3.65
TPS75725KTTT	296-15923-1-ND	2.5V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75725KTTT	296-15923-2-ND	2.5V, 3A LDO Regulator	TO-263-5		182.25/50	
TPS75733KC	296-11006-5-ND	3.3V, 3A LDO Regulator	TO-220	5.40	4.32	3.65
TPS75733KTTT	296-15924-1-ND	3.3V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75733KTTT	296-15924-2-ND	3.3V, 3A LDO Regulator	TO-263-5		182.25/50	
TPS75801KC	296-11957-5-ND	Adj., 3A LDO Regulator	TO-220-5	5.40	4.32	3.65
TPS75801KTTT	296-15925-1-ND	Adj., 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75801KTTT	296-15925-2-ND	Adj., 3A LDO Regulator	TO-263-5		182.25/50	
TPS75815KC	296-11959-5-ND	1.5V, 3A LDO Regulator	TO-220-5	5.40	4.32	3.65
TPS75815KTTT	296-15926-1-ND	1.5V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75815KTTT	296-15926-2-ND	1.5V, 3A LDO Regulator	TO-263-5		182.25/50	
TPS75818KC	296-11961-5-ND	1.8V, 3A LDO Regulator	TO-220-5	5.40	4.32	3.65
TPS75818KTTT	296-15927-1-ND	1.8V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75818KTTT	296-15927-2-ND	1.8V, 3A LDO Regulator	TO-263-5		182.25/50	
TPS75825KC	296-11963-5-ND	2.5V, 3A LDO Regulator	TO-220-5	5.40	4.32	3.65
TPS75825KTTT	296-15928-1-ND	2.5V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75825KTTT	296-15928-2-ND	2.5V, 3A LDO Regulator	TO-263-5		182.25/50	
TPS75833KC	296-11965-5-ND	3.3V, 3A LDO Regulator	TO-220-5	5.40	4.32	3.65
TPS75833KTTT	296-15929-1-ND	3.3V, 3A LDO Regulator	TO-263-5	5.40	4.32	—
TPS75833KTTT	296-15929-2-ND	3.3V, 3A LDO Regulator	TO-263-5		182.25/50	
TPS75901KC	296-12369-5-ND	Adj., 7.5A LDO Regulator	TO-220-5	6.40	5.12	4.32
TPS75901KTTT	296-15930-1-ND	Adj., 7.5A LDO Regulator	TO-263-5	6.40	5.12	—
TPS75901KTTT	296-15930-2-ND	Adj., 7.5A LDO Regulator	TO-263-5		216.00/50	

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS75915KC	296-12371-5-ND	1.5V, Fixed Out 7.5A LDO Regulator	TO-220-5	6.40	5.12	4.32
TPS75915KTTT	296-15931-1-ND	1.5V, Fixed Out 7.5A LDO Regulator	TO-263-5	6.40	5.12	—
TPS75915KTTT	296-15931-2-ND	1.5V, Fixed Out 7.5A LDO Regulator	TO-263-5	216.00/50		
TPS75918KC	296-12373-5-ND	1.8V, Fixed Out 7.5A LDO Regulator	TO-220-5	6.40	5.12	4.32
TPS75918KTTT	296-15932-1-ND	1.8V, Fixed Out 7.5A LDO Regulator	TO-263-5	6.40	5.12	—
TPS75918KTTT	296-15932-2-ND	1.8V, Fixed Out 7.5A LDO Regulator	TO-263-5	216.00/50		
TPS75925KC	296-12375-5-ND	2.5V, Fixed Out 7.5A LDO Regulator	TO-220-5	6.40	5.12	4.32
TPS75925KTTT	296-15933-1-ND	2.5V, Fixed Out 7.5A LDO Regulator	TO-263-5	6.40	5.12	—
TPS75925KTTT	296-15933-2-ND	2.5V, Fixed Out 7.5A LDO Regulator	TO-263-5	216.00/50		
TPS75933KC	296-12377-5-ND	3.3V, Fixed Out 7.5A LDO Regulator	TO-220-5	6.40	5.12	4.32
TPS75933KTTT	296-15934-1-ND	3.3V, Fixed Out 7.5A LDO Regulator	TO-263-5	6.40	5.12	—
TPS75933KTTT	296-15934-2-ND	3.3V, Fixed Out 7.5A LDO Regulator	TO-263-5	216.00/50		
TPS76030DBVR	296-1363-1-ND	3V LP 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS76030DBVR	296-1363-2-ND	3V LP 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS76032DBVR	296-8072-1-ND	3.2V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS76032DBVR	296-8072-2-ND	3.2V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS76033DBVR	296-8073-1-ND	3.3V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS76033DBVR	296-8073-2-ND	3.3V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS76038DBVR	296-8074-1-ND	3.8V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS76038DBVR	296-8074-2-ND	3.8V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS76050DBVR	296-8075-1-ND	5.0V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS76050DBVR	296-8075-2-ND	5.0V, 50mA LDO Regulator	SOT-23-5	1404.00/3,000		
TPS76130DBVR	296-11008-1-ND	3.0V, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76130DBVR	296-11008-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76130DBVT	296-2693-1-ND	3.0V, 100mA LDO Regulator	SOT-23-5	1.23	1.03	.82
TPS76130DBVT	296-2693-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	153.75/250		
TPS76132DBVR	296-11009-1-ND	3.2V, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76132DBVR	296-11009-2-ND	3.2V, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76132DBVT	296-2694-1-ND	3.2V, 100mA LDO Regulator	SOT-23-5	1.23	1.03	.82
TPS76132DBVT	296-2694-2-ND	3.2V, 100mA LDO Regulator	SOT-23-5	153.75/250		
TPS76133DBVR	296-11010-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76133DBVR	296-11010-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76133DBVT	296-2695-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.23	1.03	.82
TPS76133DBVT	296-2695-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	153.75/250		
TPS76138DBVR	296-11011-1-ND	3.8V, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76138DBVR	296-11011-2-ND	3.8V, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76138DBVT	296-2696-1-ND	3.8V, 100mA LDO Regulator	SOT-23-5	1.23	1.03	.82
TPS76138DBVT	296-2696-2-ND	3.8V, 100mA LDO Regulator	SOT-23-5	153.75/250		
TPS76150DBVR	296-11012-1-ND	5.0V, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76150DBVR	296-11012-2-ND	5.0V, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76150DBVT	296-2697-1-ND	5.0V, 100mA LDO Regulator	SOT-23-5	1.23	1.03	.82
TPS76150DBVT	296-2697-2-ND	5.0V, 100mA LDO Regulator	SOT-23-5	153.75/250		
TPS76201DBVR	296-11013-1-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	1.11	.93	.74
TPS76201DBVR	296-11013-2-ND	Adjustable, 100mA LDO Regulator	SOT-23-5	1443.00/3,000		
TPS76301DBVR	296-11014-1-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76301DBVR	296-11014-2-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76301DBVT	296-2698-1-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76301DBVT	296-2698-2-ND	Adjustable, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76301QDBVRQ1	296-18038-1-ND	Adj., 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76301QDBVRQ1	296-18038-2-ND	Adj., 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76316DBVR	296-11015-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76316DBVR	296-11015-2-ND	1.6V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76316DBVT	296-2699-1-ND	1.6V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76316DBVT	296-2699-2-ND	1.6V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76318DBVT	296-2700-1-ND	1.8V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76318DBVT	296-2700-2-ND	1.8V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76325DBVR	296-11017-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76325DBVR	296-11017-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76325DBVT	296-2701-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76325DBVT	296-2701-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76327DBVR	296-11018-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76327DBVR	296-11018-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76327DBVT	296-2702-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76327DBVT	296-2702-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76328DBVR	296-11019-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76328DBVR	296-11019-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76328DBVT	296-2703-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76328DBVT	296-2703-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76330DBVR	296-11020-1-ND	3.0V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76330DBVR	296-11020-2-ND	3.0V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76330DBVT	296-2704-1-ND	3.0V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76330DBVT	296-2704-2-ND	3.0V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76333DBVR	296-11021-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76333DBVR	296-11021-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76333DBVT	296-2705-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76333DBVT	296-2705-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76333QDBVRQ1	296-17749-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76333QDBVRQ1	296-17749-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76338DBVT	296-2706-1-ND	3.8V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76338DBVT	296-2706-2-ND	3.8V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76350DBVR	296-11023-1-ND	5.0V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76350DBVR	296-11023-2-ND	5.0V, 150mA LDO Regulator	SOT-23-5	819.00/3,000		
TPS76350DBVT	296-2707-1-ND	5.0V, 150mA LDO Regulator	SOT-23-5	.84	.63	.48
TPS76350DBVT	296-2707-2-ND	5.0V, 150mA LDO Regulator	SOT-23-5	99.50/250		
TPS76425DBVR	296-11024-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76425DBVR	296-11024-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76425DBVT	296-2708-1-ND	2.5V, 150mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76425DBVT	296-2708-2-ND	2.5V, 150mA LDO Regulator	SOT-23-5	101.25/250		
TPS76427DBVR	296-11025-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76427DBVR	296-11025-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76427DBVT	296-2709-1-ND	2.7V, 150mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76427DBVT	296-2709-2-ND	2.7V, 150mA LDO Regulator	SOT-23-5	101.25/250		
TPS76428DBVR	296-11026-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76428DBVR	296-11026-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76428DBVT	296-2710-1-ND	2.8V, 150mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76428DBVT	296-2710-2-ND	2.8V, 150mA LDO Regulator	SOT-23-5	101.25/250		
TPS76430DBVT	296-2711-1-ND	3.0V, 150mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76430DBVT	296-2711-2-ND	3.0V, 150mA LDO Regulator	SOT-23-5	101.25/250		
TPS76433DBVR	296-11028-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76433DBVR	296-11028-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76433DBVT	296-2712-1-ND	3.3V, 150mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76433DBVT	296-2712-2-ND	3.3V, 150mA LDO Regulator	SOT-23-5	101.25/250		
TPS76501D	296-2713-5-ND	Adjustable, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76515D	296-2714-5-ND	1.5V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76518D	296-2715-5-ND	1.8V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76525D	296-2716-5-ND	2.5V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76527D	296-2717-5-ND	2.7V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76528D	296-2718-5-ND	2.8V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76530D	296-2719-5-ND	3.0V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76533D	296-2720-5-ND	3.3V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76550D	296-2721-5-ND	5.0V, 150mA LDO Regulator	8-SOIC	1.25	1.00	.75
TPS76601D	296-2722-5-ND	Adjustable, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76615D	296-2723-5-ND	1.5V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76615D	296-2723-1-ND	1.5V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76615DR	296-2723-2-ND	1.5V, 250mA LDO Regulator	8-SOIC	1300.00/2,500		
TPS76618D	296-2724-5-ND	1.8V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76625D	296-2725-5-ND	2.5V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76627D	296-2726-5-ND	2.7V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76628D	296-2727-5-ND	2.8V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76630D	296-2728-5-ND	3.0V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76633D	296-2729-5-ND	3.3V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76650D	296-2730-5-ND	5.0V, 250mA LDO Regulator	8-SOIC	1.20	1.00	.80
TPS76701QD	296-2731-5-ND	Adj., 1A LDO Voltage Regulator	8-SOIC	2.48	1.98	1.54
TPS76701QPWP	296-8076-5-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76701QPWPR	296-8076-1-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76701QPWPR	296-8076-2-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	2806.00/2.000		
TPS76701QPWPREP	296-18156-1-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	5.29	4.23	3.29
TPS76701QPWPREP	296-18156-2-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	5992.00/2,000		
TPS76701QPWPRQ1	296-16967-1-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	2.93	2.34	1.82
TPS76701QPWPRQ1	296-16967-2-ND	Adj., 1A LDO Voltage Regulator	20-HTSSOP	3316.00/2,000		
TPS76715QD	296-2732-5-ND	1.5V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76715QPWP	296-8077-5-ND	1.5V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76718QD	296-2733-5-ND	1.8V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76718QPWP	296-8078-5-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76718QPWPRQ1	296-15284-1-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2.93	2.34	1.82
TPS76718QPWPRQ1	296-15284-2-ND	1.8V, 1A LDO Regulator	20-HTSSOP	3316.00/2,000		
TPS76725QD	296-2734-5-ND	2.5V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76725QPWP	296-8079-5-ND	2.5V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76725QPWPREP	296-18157-1-ND	2.5V, 1A LDO Regulator	20-HTSSOP	5.29	4.23	3.29
TPS76725QPWPREP	296-18157-2-ND	2.5V, 1A LDO Regulator	20-HTSSOP	5992.00/2,000		
TPS76727QD	296-2735-5-ND	2.7V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76727QPWP	296-8080-5-ND	2.7V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76728QD	296-2736-5-ND	2.8V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76728QPWP	296-8081-5-ND	2.8V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76730QD	296-2737-5-ND	3.0V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76730QPWP	296-8082-5-ND	3.0V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76733QD	296-2738-5-ND	3.3V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76733QPWP	296-8083-5-ND	3.3V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76733QPWPREP	296-18158-1-ND	3.3V, 1A LDO Regulator	20-HTSSOP	5.29	4.23	3.29
TPS76733QPWPREP	296-18158-2-ND	3.3V, 1A LDO Regulator	20-HTSSOP	5992.00/2,000		
TPS76733QPWPRQ1	296-15285-1-ND	3.3V, 1A LDO Regulator	20-HTSSOP	2.93	2.34	1.82
TPS76733QPWPRQ1	296-15285-2-ND	3.3V, 1A LDO Regulator	20-HTSSOP	3316.00/2,000		
TPS76750QD	296-2739-5-ND	5.0V, 1A LDO Regulator	8-SOIC	2.48	1.98	1.54
TPS76750QPWP	296-8084-5-ND	5.0V, 1A LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS76750QPWPRQ1	296-15286-1-ND	5.0V, 1A LDO Regulator	20-HTSSOP	2.93	2.34	1.82
TPS76750QPWPRQ1	296-15286-2-ND	5.0V, 1A LDO Regulator	20-HTSSOP	3316.00/2,000		
TPS76801QD	296-2743-5-ND	Adj., 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76801QPWP	296-8085-5-ND	Adj., 1A LDO Regulator.	20-HTSSOP	2.25	1.80	1.35
TPS76801QPWPREP	296-18159-1-ND	Adj., 1A LDO Regulator	20-HTSSOP	5.06	4.05	3.15
TPS76801QPWPREP	296-18159-2-ND	Adj., 1A LDO Regulator	20-HTSSOP	5738.00/2,000		
TPS76801QPWPRQ1	296-15287-1-ND	Adj., 1A LDO Regulator	20-HTSSOP	2.36	1.89	1.47
TPS76801QPWPRQ1	296-15287-2-ND	Adj., 1A LDO Regulator	20-HTSSOP	2678.00/2,000		
TPS76815QD	296-2744-5-ND	1.5V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76815QPWP	296-8086-5-ND	1.5V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76818QD	296-2745-5-ND	1.8V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76818QPWP	296-8087-5-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76818QPWPREP	296-18160-1-ND	1.8V, 1A LDO Regulator	20-HTSSOP	5.06	4.05	3.15
TPS76818QPWPREP	296-18160-2-ND	1.8V, 1A LDO Regulator	20-HTSSOP	5738.00/2,000		
TPS76818QPWPRQ1	296-15288-1-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2.36	1.89	1.47
TPS76818QPWPRQ1	296-15288-2-ND	1.8V, 1A LDO Regulator	20-HTSSOP	2678.00/2,000		
TPS76825QD	296-2746-5-ND	2.5V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76825QPWP	296-8088-5-ND	2.5V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76825QPWPREP	296-18161-1-ND	2.5V, 1A LDO Regulator	20-HTSSOP	5.06	4.05	3.15
TPS76825QPWPREP	296-18161-2-ND	2.5V, 1A LDO Regulator	20-HTSSOP	5738.00/2,000		
TPS76827QD	296-2747-5-ND	2.7V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76827QPWP	296-8089-5-ND	2.7V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76828QD	296-2748-5-ND	2.8V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76828QPWP	296-8090-5-ND	2.8V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76830QD	296-2749-5-ND	3.0V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76830QPWP	296-8091-5-ND	3.0V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76833QD	296-2750-5-ND	3.3V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76833QPWP	296-8092-5-ND	3.3V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76833QPWPRQ1	296-15289-1-ND	3.3V, 1A LDO Regulator	20-HTSSOP	2.36	1.89	1.47
TPS76833QPWPRQ1	296-15289-2-ND	3.3V, 1A LDO Regulator	20-HTSSOP	2678.00/2,000		
TPS76850QD	296-2751-5-ND	5V, 1A LDO Regulator	8-SOIC	2.25	1.80	1.35
TPS76850QPWP	296-8093-5-ND	5V, 1A LDO Regulator	20-HTSSOP	2.25	1.80	1.35
TPS76850QPWPREP	296-18162-1-ND	5V, 1A LDO Regulator	20-HTSSOP	5.06	4.05	3.15
TPS76850QPWPREP	296-18162-2-ND	5V, 1A LDO Regulator	20-HTSSOP	5738.00/2,000		
TPS76850QPWPRQ1	296-15290-1-ND	5.0V, 1A LDO Regulator	20-HTSSOP	2.36	1.89	1.47
TPS76850QPWPRQ1	296-15290-2-ND	5.0V, 1A LDO Regulator	20-HTSSOP	2678.00/2,000		
TPS76901DBVR	296-11029-1-ND	Adj., 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76901DBVR	296-11029-2-ND	Adj., 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76901DBVT	296-2752-1-ND	Adj., 100mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76901DBVT	296-2752-2-ND	Adj., 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76901QDBVRQ1	296-15291-1-ND	Adj., 100mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS76901QDBVRQ1	296-15291-2-ND	Adj., 100mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS76912DBVR	296-11031-1-ND	1.2V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76912DBVR	296-11031-2-ND	1.2V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76912DBVT	296-2753-1-ND	1.2V, 100mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76912DBVT	296-2753-2-ND	1.2V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76915DBVR	296-11032-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76915DBVR	296-11032-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76915DBVT	296-2754-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76915DBVT	296-2754-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76918DBVR	296-11033-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76918DBVR	296-11033-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76918DBVT	296-2755-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76918DBVT	296-2755-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76918QDBVRQ1	296-15292-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.87	.73	.58

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TPS76918QDBVRQ1	296-15292-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS76925DBVR	296-11035-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76925DBVR	296-11035-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76925DBVT	296-2756-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76925DBVT	296-2756-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76927DBVR	296-11036-1-ND	2.7V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76927DBVR	296-11036-2-ND	2.7V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76927DBVT	296-2757-1-ND	2.7V, 100mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76927DBVT	296-2757-2-ND	2.7V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76928DBVR	296-11037-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76928DBVR	296-11037-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76928DBVT	296-2758-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.81	.68	.54
TPS76928DBVT	296-2758-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76930DBVR	296-11038-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76930DBVT	296-2759-1-ND	3.0V, 100mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76930DBVT	296-2759-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76930QDBVRQ1	296-15293-1-ND	3.0V, 100mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS76930QDBVRQ1	296-15293-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS76933DBVR	296-11039-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76933DBVT	296-2760-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76933DBVT	296-2760-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76933QDBVRQ1	296-15294-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS76933QDBVRQ1	296-15294-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS76950DBVR	296-11041-1-ND	5.0V, 100mA LDO Regulator	SOT-23-5	.96	.72	.54
TPS76950DBVR	296-11041-2-ND	5.0V, 100mA LDO Regulator	SOT-23-5	936.00/3,000		
TPS76950DBVT	296-2761-1-ND	5.0V, 100mA LDO Regulator	SOT-23-5	1.08	.81	.61
TPS76950DBVT	296-2761-2-ND	5.0V, 100mA LDO Regulator	SOT-23-5	101.25/250		
TPS76950QDBVRQ1	296-15295-1-ND	5.0V, 100mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS76950QDBVRQ1	296-15295-2-ND	5.0V, 100mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77001DBVR	296-11043-1-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77001DBVR	296-11043-2-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77001DBVT	296-2762-1-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77001DBVT	296-2762-2-ND	Adjustable, 50mA LDO Regulator	SOT-23-5	116.25/250		
TPS77012DBVR	296-11044-1-ND	1.2V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77012DBVR	296-11044-2-ND	1.2V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77012DBVT	296-2763-1-ND	1.2V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77012DBVT	296-2763-2-ND	1.2V, 50mA LDO Regulator	SOT-23-5	116.25/250		
TPS77015DBVR	296-11045-1-ND	1.5V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77015DBVR	296-11045-2-ND	1.5V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77015DBVT	296-2764-1-ND	1.5V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77015DBVT	296-2764-2-ND	1.5V, 50mA LDO Regulator	SOT-23-5	116.25/250		
TPS77018DBVR	296-11046-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77018DBVR	296-11046-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77018DBVT	296-2765-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77018DBVT	296-2765-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5	116.25/250		
TPS77025DBVR	296-11047-1-ND	2.5V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77025DBVR	296-11047-2-ND	2.5V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77025DBVT	296-2766-1-ND	2.5V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77025DBVT	296-2766-2-ND	2.5V, 50mA LDO Regulator	SOT-23-5	116.25/250		
TPS77027DBVR	296-11048-1-ND	2.7V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77027DBVR	296-11048-2-ND	2.7V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77027DBVT	296-2767-1-ND	2.7V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77027DBVT	296-2767-2-ND	2.7V, 50mA LDO Regulator	SOT-23-5	116.25/250		
TPS77028DBVR	296-11049-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77028DBVR	296-11049-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77028DBVT	296-2768-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77028DBVT	296-2768-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5	116.25/250		
TPS77030DBVR	296-11050-1-ND	3.0V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77030DBVR	296-11050-2-ND	3.0V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77030DBVT	296-2769-1-ND	3.0V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77030DBVT	296-2769-2-ND	3.0V, 50mA LDO Regulator	SOT-23-5	116.25/250		
TPS77033DBVT	296-2770-1-ND	3.3V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77033DBVT	296-2770-2-ND	3.3V, 50mA LDO Regulator	SOT-23-5	116.25/250		
TPS77050DBVR	296-11052-1-ND	5.0V, 50mA LDO Regulator	SOT-23-5	.87	.73	.58
TPS77050DBVR	296-11052-2-ND	5.0V, 50mA LDO Regulator	SOT-23-5	1131.00/3,000		
TPS77050DBVT	296-2771-1-ND	5.0V, 50mA LDO Regulator	SOT-23-5	.93	.78	.62
TPS77050DBVT	296-2771-2-ND	5.0V, 50mA LDO Regulator	SOT-23-5	116.25/250		
TPS77101DGK	296-8094-5-ND	Adjustable, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77115DGK	296-8095-5-ND	1.5V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77118DGK	296-8096-5-ND	1.8V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77127DGK	296-8097-5-ND	2.7V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77128DGK	296-8098-5-ND	2.8V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77133DGK	296-8099-5-ND	3.3V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77150DGK	296-8100-5-ND	5.0V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77201DGK	296-8101-5-ND	Adjustable, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77215DGK	296-8102-5-ND	1.5V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77218DGK	296-8103-5-ND	1.8V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77227DGK	296-8104-5-ND	2.7V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77228DGK	296-8105-5-ND	2.8V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77233DGK	296-8106-5-ND	3.3V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77250DGK	296-8107-5-ND	5.0V, 150mA LDO Regulator	8-MSOP	1.50	1.20	.90
TPS77301DGK	296-8108-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77315DGK	296-8109-5-ND	1.5V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77316DGK	296-13419-5-ND	250mA LDO Reg. with Reset Output	8-MSOP	1.75	1.40	1.05
TPS77318DGK	296-8110-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77327DGK	296-8111-5-ND	2.7V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77328DGK	296-8112-5-ND	2.8V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77333DGK	296-8113-5-ND	3.3V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77350DGK	296-8114-5-ND	5.0V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77401DGK	296-8115-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77415DGK	296-8116-5-ND	1.5V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77418DGK	296-8117-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77427DGK	296-8118-5-ND	2.7V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77428DGK	296-8119-5-ND	2.8V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77433DGK	296-8120-5-ND	3.3V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77450DGK	296-8121-5-ND	5.0V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77501D	296-2772-5-ND	Adj., 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77501MPWPREP	296-18163-1-ND	Adj., 500mA LDO Regulator	20-HTSSOP	4.43	3.55	2.76
TPS77501MPWPREP	296-18163-2-ND	Adj., 500mA LDO Regulator	20-HTSSOP	5024.00/2,000		
TPS77501PWP	296-8122-5-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77501QPWPRQ1	296-15296-1-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS77501QPWPRQ1	296-15296-2-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2806.00/2,000		
TPS77515D	296-2773-5-ND	1.5V, 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77515PWP	296-8123-5-ND	1.5V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77516D	296-13420-5-ND	1.6V, 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77516PWP	296-12401-5-ND	1.6V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77518D	296-2774-5-ND	1.8V, 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77518PWP	296-8124-5-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77518QPWPRQ1	296-15297-1-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS77518QPWPRQ1	296-15297-2-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2806.00/2,000		
TPS77525D	296-2775-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77525MPWPREP	296-18165-1-ND	2.5V, 500mA LDO Regulator	20-HTSSOP	4.43	3.55	2.76
TPS77525MPWPREP	296-18165-2-ND	2.5V, 500mA LDO Regulator	20-HTSSOP	5024.00/2,000		
TPS77525PWP	296-8125-5-ND	2.5V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77533D	296-2776-5-ND	3.3V, 500mA LDO Regulator	8-SOIC	2.38	1.90	1.43
TPS77533MPWPREP	296-18166-1-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	4.43	3.55	2.76
TPS77533MPWPREP	296-18166-2-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	5024.00/2,000		
TPS77533PWP	296-8126-5-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	2.38	1.90	1.43
TPS77533QPWPRQ1	296-15298-1-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	2.48	1.98	1.54
TPS77533QPWPRQ1	296-15298-2-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	2806.00/2,000		
TPS77601D	296-2777-5-ND	Adj., 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77601PWP	296-8127-5-ND	Adj., 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77601QPWPREP	296-18167-1-ND	Adj., 500mA LDO Regulator	20-HTSSOP	4.21	3.37	2.62
TPS77601QPWPREP	296-18167-2-ND	Adj., 500mA LDO Regulator	20-HTSSOP	4768.00/2,000		
TPS77601QPWPRQ1	296-15299-1-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2.13	1.70	1.28
TPS77601QPWPRQ1	296-15299-2-ND	Adj., 500mA LDO Regulator	20-HTSSOP	2210.00/2,000		
TPS77615D	296-2778-5-ND	1.5V, 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77615PWP	296-11053-5-ND	1.5V, 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77618D	296-2779-5-ND	1.8V, 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77618PWP	296-8128-5-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77618QPWPREP	296-18168-1-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	4.21	3.37	2.62
TPS77618QPWPREP	296-18168-2-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	4768.00/2,000		
TPS77618QPQPRQ1	296-15300-1-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2.13	1.70	1.28
TPS77618QPQPRQ1	296-15300-2-ND	1.8V, 500mA LDO Regulator	20-HTSSOP	2210.00/2,000		
TPS77625D	296-2780-5-ND	2.5V, 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77625PWP	296-8129-5-ND	2.5V, 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77628D	296-2781-5-ND	2.8V, 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77628PWP	296-8130-5-ND	2.8V, 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77633D	296-2782-5-ND	3.3V, 500mA LDO Regulator	8-SOIC	1.75	1.40	1.05
TPS77633PWP	296-8131-5-ND	3.3V, 500mA LDO Regulator	20-HTSSOP	1.75	1.40	1.05
TPS77633QPWPRQ1	296-15301-1-ND	3.3V, 500mA LDO Regulator	20-TSSOP	2.13	1.70	1.28
TPS77633QPWPRQ1	296-15301-2-ND	3.3V, 500mA LDO Regulator	20-TSSOP	2210.00/2,000		
TPS77701D	296-2783-5-ND	Adjustable, 750mA LDO Regulator	8-SOIC	2.36	1.89	1.47
TPS77701PWP	296-8132-5-ND	Adjustable, 750mA LDO Regulator	20-HTSSOP	2.36	1.89	1.47
TPS77715D	296-2784-5-ND	1.5V, 750mA LDO Reg. with Reset Out	8-SOIC	2.36	1.89	1.47
TPS77715DR	296-17049-1-ND	1.5V, 750mA LDO Reg. with Reset Out	8-SOIC	4.20	3.15	2.37
TPS77715DR	296-17049-2-ND	1.5V, 750mA LDO Reg. with Reset Out	8-SOIC	3307.50/2,500		
TPS77715PWP	296-8133-5-ND	1.5V, 750mA LDO Regulator with Reset Out	20-HTSSOP	2.36	1.89	1.47
TPS77718D	296-2785-5-ND	1.8V, 750mA LDO Reg. with Reset Out	8-SOIC	2.36	1.89	1.47
TPS77718PWP	296-8134-5-ND	1.8V, 750mA LDO Regulator with Reset Out	20-HTSSOP	2.36	1.89	1.47
TPS77725D	296-2786-5-ND	2.5V, 750mA LDO Reg. with Reset Out	8-SOIC	2.36	1.89	1.47
TPS77725PWP	296-8135-5-ND	2.5V, 750mA LDO Reg. with Reset Out	20-HTSSOP	2.36	1.89	1.47
TPS77733D	296-2787-5-ND	3.3V, 750mA LDO Reg. with Reset Out	8-SOIC	2.36	1.89	1.47
TPS77733PWP	296-8136-5-ND	3.3V, 750mA LDO Reg. with Reset Out	20-HTSSOP	2.36	1.89	1.47
TPS77801D	296-2788-5-ND	Adjustable, 750mA LDO Regulator	8-SOIC	2.25	1.80	1.40
TPS77801PWP	296-8137-5-ND	Adjustable, 750mA LDO Regulator	20-HTSSOP	2.25	1.80	1.40
TPS77815D	296-2789-5-ND	1.5V, 750mA LDO Regulator	8-SOIC	2.25	1.80	1.40
TPS77815PWP	296-8138-5-ND	1.5V, 750mA LDO Regulator	20-HTSSOP	2.25	1.80	1.40
TPS77818D	296-2790-5-ND	1.8V, 750mA LDO Regulator	8-SOIC	2.25	1.80	1.40
TPS77818PWP	296-8139-5-ND	1.8V, 750mA LDO Regulator	20-HTSSOP	2.25	1.80	1.40
TPS77825D	296-2791-5-ND	2.5V, 750mA LDO Regulator	8-SOIC	2.25	1.80	1.40
TPS77825PWP	296-8140-5-ND	2.5V, 750mA LDO Regulator	20-HTSSOP	2.25	1.80	1.40
TPS77833D	296-2792-5-ND	3.3V, 750mA LDO Regulator	8-SOIC	2.25	1.80	1.40
TPS77833PWP	296-8141-5-ND	3.3V, 750mA LDO Regulator	20-HTSSOP	2.25	1.80	1.40
TPS77901DGK	296-8142-5-ND	Adjustable, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77918DGK	296-8143-5-ND	1.8V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77925DGK	296-8144-5-ND	2.5V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS77930DGK	296-8145-5-ND	3.0V, 250mA LDO Regulator	8-MSOP	1.75	1.40	1.05
TPS78601DCQR	296-13755-1-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78601DCQR	296-13755-2-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4252.50/2,500		
TPS78601KTTT	296-14421-1-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78601KTTT	296-14421-2-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	112.00/50		
TPS78618DCQR	296-13756-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78618DCQR	296-13756-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4252.50/2,500		
TPS78618KTTT	296-14422-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78618KTTT	296-14422-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	112.00/50		
TPS78625DCQR	296-13757-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78625DCQR	296-13757-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4252.50/2,500		
TPS78625KTTT	296-14423-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78625KTTT	296-14423-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	112.00/50		
TPS78628DCQR	296-13758-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78628DCQR	296-13758-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	4252.50/2,500		
TPS78628KTTT	296-14424-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78628KTTT	296-14424-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	112.00/50		
TPS78630DCQR	296-13759-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89

(Continued)

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS78630DCQR	296-13759-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6		4252.50/2,500	
TPS78630KTTT	296-14425-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78630KTTT	296-14425-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5		112.00/50	
TPS78633DCQ	296-13760-5-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78633DCQR	296-13760-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6	3.04	2.43	1.89
TPS78633DCQR	296-13760-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	SOT-223-6		4252.50/2,500	
TPS78633KTTT	296-14426-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5	3.60	2.88	—
TPS78633KTTT	296-14426-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1.5A LDO Regulator	DDPAK-5		112.00/50	
TPS78825DBVR	296-12379-1-ND	150mA, 2.5V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1.14	.95	.76
TPS78825DBVR	296-12379-2-ND	150mA, 2.5V, Low-Noise LDO with In-Rush Current Control	SOT-23-5		1482.00/3,000	
TPS78833DBVR	296-12380-1-ND	150mA, 3.3V, Low-Noise LDO with In-Rush Current Control	SOT-23-5	1.14	.95	.76
TPS78833DBVR	296-12380-2-ND	150mA, 3.3V, Low-Noise LDO with In-Rush Current Control	SOT-23-5		1482.00/3,000	
TPS78915DBVR	296-8146-1-ND	1.5V, 100mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS78915DBVR	296-8146-2-ND	1.5V, 100mA LDO Regulator	SOT-23-5		1170.00/3,000	
TPS78918DBVR	296-8147-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS78918DBVR	296-8147-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5		1170.00/3,000	
TPS78925DBVR	296-8148-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS78925DBVR	296-8148-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5		1170.00/3,000	
TPS78928DBVR	296-8149-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS78928DBVR	296-8149-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5		1170.00/3,000	
TPS78930DBVR	296-8150-1-ND	3.0V, 100mA LDO Regulator	SOT-23-5	.90	.75	.60
TPS78930DBVR	296-8150-2-ND	3.0V, 100mA LDO Regulator	SOT-23-5		1170.00/3,000	
TPS79015DBVR	296-8151-1-ND	1.5V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79015DBVR	296-8151-2-ND	1.5V, 50mA LDO Regulator	SOT-23-5		1404.00/3,000	
TPS79018DBVR	296-8152-1-ND	1.8V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79018DBVR	296-8152-2-ND	1.8V, 50mA LDO Regulator	SOT-23-5		1404.00/3,000	
TPS79025DBVR	296-8153-1-ND	2.5V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79025DBVR	296-8153-2-ND	2.5V, 50mA LDO Regulator	SOT-23-5		1404.00/3,000	
TPS79028DBVR	296-8154-1-ND	2.8V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79028DBVR	296-8154-2-ND	2.8V, 50mA LDO Regulator	SOT-23-5		1404.00/3,000	
TPS79030DBVR	296-8155-1-ND	3V, 50mA LDO Regulator	SOT-23-5	1.08	.90	.72
TPS79030DBVR	296-8155-2-ND	3V, 50mA LDO Regulator	SOT-23-5		1404.00/3,000	
TPS79101DBVR	296-11864-1-ND	Adj., 100mA LDO Regulator	SOT-23-6	1.20	1.00	.80
TPS79101DBVR	296-11864-2-ND	Adj., 100mA LDO Regulator	SOT-23-6		1560.00/3,000	
TPS79101DBVRQ1	296-15302-1-ND	Adj., 100mA LDO Regulator	SOT-23-5	1.41	1.18	.94
TPS79101DBVRQ1	296-15302-2-ND	Adj., 100mA LDO Regulator	SOT-23-5		1833.00/3,000	
TPS79118DBVR	296-11865-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1.20	1.00	.80
TPS79118DBVR	296-11865-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5		1560.00/3,000	
TPS79118DBVRQ1	296-15303-1-ND	1.8V, 100mA LDO Regulator	SOT-23-5	1.41	1.18	.94
TPS79118DBVRQ1	296-15303-2-ND	1.8V, 100mA LDO Regulator	SOT-23-5		1833.00/3,000	
TPS79133DBVR	296-11866-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.20	1.00	.80
TPS79133DBVR	296-11866-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5		1560.00/3,000	
TPS79133DBVRQ1	296-15304-1-ND	3.3V, 100mA LDO Regulator	SOT-23-5	1.41	1.18	.94
TPS79133DBVRQ1	296-15304-2-ND	3.3V, 100mA LDO Regulator	SOT-23-5		1833.00/3,000	
TPS79147DBVR	296-11867-1-ND	4.7V, Ultralow Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	1.20	1.00	.80
TPS79147DBVR	296-11867-2-ND	4.7V, Ultralow Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5		1560.00/3,000	
TPS79147DBVREP	296-18169-1-ND	4.7V, Ultralow Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	2.13	1.70	1.28
TPS79147DBVREP	296-18169-2-ND	4.7V, Ultralow Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5		3264.00/3,000	
TPS79147DBVT	296-13707-1-ND	4.7V, Ultralow Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5	1.32	1.10	.88
TPS79147DBVT	296-13707-2-ND	4.7V, Ultralow Noise, High PSRR, Fast RF 100mA LDO Linear Regulator	SOT-23-5		165.00/250	
TPS79201DBVR	296-11868-1-ND	Adj., 100mA LDO Regulator	SOT-23-6	1.20	1.00	.80
TPS79201DBVR	296-11868-2-ND	Adj., 100mA LDO Regulator	SOT-23-6		1560.00/3,000	
TPS79225DBVR	296-11869-1-ND	2.5V, 100mA LDO Regulator	SOT-23-5	1.20	1.00	.80
TPS79225DBVR	296-11869-2-ND	2.5V, 100mA LDO Regulator	SOT-23-5		1560.00/3,000	
TPS79228DBVR	296-11870-1-ND	2.8V, 100mA LDO Regulator	SOT-23-5	1.20	1.00	.80
TPS79228DBVR	296-11870-2-ND	2.8V, 100mA LDO Regulator	SOT-23-5		1560.00/3,000	
TPS79230DBVR	296-11871-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.20	1.00	.80
TPS79230DBVR	296-11871-2-ND	3V, 100mA LDO Regulator	SOT-23-5		1560.00/3,000	
TPS79230DBVT	296-19004-1-ND	3V, 100mA LDO Regulator	SOT-23-5	1.32	1.10	.88
TPS79230DBVT	296-19004-2-ND	3V, 100mA LDO Regulator	SOT-23-5		165.00/250	
TPS79301DBVR	296-12154-1-ND	Adj., 200mA High PSRR RF LDO Regulator	SOT-23-6	.88	.66	.50
TPS79301DBVR	296-12154-2-ND	Adj., 200mA High PSRR RF LDO Regulator	SOT-23-6		858.00/3,000	
TPS79301DBVREP	296-18170-1-ND	Adj., 200mA, High PSRR RF LDO Regulator	SOT-23-6	2.28	1.82	1.37
TPS79301DBVREP	296-18170-2-ND	Adj., 200mA, High PSRR RF LDO Regulator	SOT-23-6		3495.00/3,000	
TPS79301DBVRQ1	296-15305-1-ND	Adj., 200mA High PSRR RF LDO Regulator	SOT-23-6	.78	.65	.52
TPS79301DBVRQ1	296-15305-2-ND	Adj., 200mA High PSRR RF LDO Regulator	SOT-23-6		1014.00/3,000	
TPS79318DBVR	296-12155-1-ND	1.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS79318DBVR	296-12155-2-ND	1.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5		858.00/3,000	
TPS79318DBVREP	296-18171-1-ND	1.8V, 200mA, High PSRR RF LDO Regulator	SOT-23-5	2.28	1.82	1.37
TPS79318DBVREP	296-18171-2-ND	1.8V, 200mA, High PSRR RF LDO Regulator	SOT-23-5		3495.00/3,000	
TPS79318DBVRQ1	296-15306-1-ND	1.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.78	.65	.52
TPS79318DBVRQ1	296-15306-2-ND	1.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5		1014.00/3,000	
TPS79318YEQEVM	296-19005-ND	Evaluation Module for TPS79318YEQ	—	14.23	—	—
TPS79318YEQT	296-17026-1-ND	1.8V, 200mA, High PSRR RF LDO Regulator	5-CSP	.87	.73	.58
TPS79318YEQT	296-17026-2-ND	1.8V, 200mA, High PSRR RF LDO Regulator	5-CSP		108.75/250	
TPS79318YZQR	296-18064-1-ND	1.8V, 200mA, High PSRR RF LDO Regulator	5-DSBGA	.81	.68	.54
TPS79318YZQR	296-18064-2-ND	1.8V, 200mA, High PSRR RF LDO Regulator	5-DSBGA		1053.00/3,000	
TPS79325DBVR	296-12156-1-ND	2.5V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS79325DBVR	296-12156-2-ND	2.5V, 200mA High PSRR RF LDO Regulator	SOT-23-5		858.00/3,000	
TPS79325DBVRQ1	296-15307-1-ND	2.5V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.78	.65	.52
TPS79325DBVRQ1	296-15307-2-ND	2.5V, 200mA High PSRR RF LDO Regulator	SOT-23-5		1014.00/3,000	
TPS79325YEQEVM	296-19006-ND	Evaluation Module for TPS79325YEQ	—	14.23	—	—
TPS79325YEQT	296-17233-1-ND	2.5V, 200mA High PSRR RF LDO Regulator	5-WCSP	.87	.73	.58
TPS79325YEQT	296-17233-2-ND	2.5V, 200mA High PSRR RF LDO Regulator	5-WCSP		108.75/250	
TPS79328DBVR	296-12158-1-ND	2.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS79328DBVR	296-12158-2-ND	2.8V, 200mA High PSRR RF LDO Regulator	SOT-23-5		858.00/3,000	
TPS79328YEQEVM	296-19008-ND	Evaluation Module for TPS79328YEQ	—	14.23	—	—
TPS79328YEQT	296-19009-ND	2.8V, 200mA High PSRR RF LDO Regulator	5-DSBGA	.87	.73	.58
TPS79328YZQT	296-18735-1-ND	2.8V, 200mA High PSRR RF LDO Regulator	5-DSBGA	.87	.73	.58
TPS79328YZQT	296-18735-2-ND	2.8V, 200mA High PSRR RF LDO Regulator	5-DSBGA		108.75/250	
TPS79330DBVR	296-12159-1-ND	3V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS79330DBVR	296-12159-2-ND	3V, 200mA High PSRR RF LDO Regulator	SOT-23-5		858.00/3,000	
TPS79330YEQEVM	296-19010-ND	Evaluation Module for TPS79330YEQ	—	14.23	—	—
TPS79330YEQT	296-16968-1-ND	3V, 200mA High PSRR, RF LDO Regulator	5-DSBGA	.87	.73	.58
TPS79330YEQT	296-16968-2-ND	3V, 200mA High PSRR, RF LDO Regulator	5-DSBGA		108.75/250	
TPS79333DBVR	296-12961-1-ND	3.3V, 200mA, Ultralow Noise, High PSRR, Fast RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS79333DBVR	296-12961-2-ND	3.3V, 200mA, Ultralow Noise, High PSRR, Fast RF LDO Regulator	SOT-23-5		858.00/3,000	
TPS79333DBVREP	296-18172-1-ND	3.3V, 200mA, Ultralow Noise, High PSRR, Fast RF LDO Regulator	SOT-23-5	2.28	1.82	1.37
TPS79333DBVREP	296-18172-2-ND	3.3V, 200mA, Ultralow Noise, High PSRR, Fast RF LDO Regulator	SOT-23-5		3495.00/3,000	
TPS79333DBVRQ1	296-15308-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 200mA LDO Regulator	SOT-23-5	.78	.65	.52
TPS79333DBVRQ1	296-15308-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 200mA LDO Regulator	SOT-23-5		1014.00/3,000	
TPS79401DCQR	296-14427-1-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79401DCQR	296-14427-2-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6		2080.00/2,500	
TPS79401DGNR	296-13526-1-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98
TPS79401DGNR	296-13526-2-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP		2080.00/2,500	
TPS79401DGNT	296-14428-1-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.75	1.40	1.05
TPS79401DGNT	296-14428-2-ND	Adj., Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP		245.00/250	
TPS79418DCQR	296-14429-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79418DCQR	296-14429-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6		2080.00/2,500	
TPS79418DGNR	296-14213-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98
TPS79418DGNR	296-14213-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP		2080.00/2,500	
TPS79418DGNT	296-14430-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.75	1.40	1.05
TPS79418DGNT	296-14430-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP		245.00/250	
TPS79425DCQR	296-14431-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79425DCQR	296-14431-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6		2080.00/2,500	
TPS79425DGNR	296-13527-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98
TPS79425DGNR	296-13527-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP		2080.00/2,500	
TPS79425DGNT	296-14432-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.75	1.40	1.05
TPS79425DGNT	296-14432-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP		245.00/250	
TPS79428DCQR	296-14433-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79428DCQR	296-14433-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6		2080.00/2,500	
TPS79428DGNR	296-13528-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98
TPS79428DGNR	296-13528-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP		2080.00/2,500	
TPS79428DGNT	296-14434-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.75	1.40	1.05
TPS79428DGNT	296-14434-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP		245.00/250	
TPS79430DCQR	296-14435-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79430DCQR	296-14435-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6		2080.00/2,500	
TPS79430DGNR	296-13529-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS79430DGNR	296-13529-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	2080.00/2,500		
TPS79430DGNT	296-14436-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO LinearRegulator	8-MSOP	1.75	1.40	1.05
TPS79430DGNT	296-14436-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO LinearRegulator	8-MSOP	245.00/250		
TPS79433DCQR	296-14437-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	1.63	1.30	.98
TPS79433DCQR	296-14437-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	SOT-223-6	2080.00/2,500		
TPS79433DGNR	296-13530-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.63	1.30	.98
TPS79433DGNR	296-13530-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	2080.00/2,500		
TPS79433DGNT	296-14438-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	1.75	1.40	1.05
TPS79433DGNT	296-14438-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 250mA, LDO Linear Regulator	8-MSOP	245.00/250		
TPS79501DCQR	296-13806-1-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.36	1.89	1.47
TPS79501DCQR	296-13806-2-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	3307.50/2,500		
TPS79516DCQR	296-13807-1-ND	1.6V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.36	1.89	1.47
TPS79516DCQR	296-13807-2-ND	1.6V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	3307.50/2,500		
TPS79518DCQR	296-13808-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.36	1.89	1.47
TPS79518DCQR	296-13808-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	3307.50/2,500		
TPS79525DCQ	296-14753-5-ND	2.5V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.36	1.89	1.47
TPS79530DCQR	296-13809-1-ND	3V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.36	1.89	1.47
TPS79530DCQR	296-13809-2-ND	3V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	3307.50/2,500		
TPS79533DCQR	296-13810-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	2.36	1.89	1.47
TPS79533DCQR	296-13810-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF LDO Linear Regulator	SOT-223-5	3307.50/2,500		
TPS79601DCQR	296-13761-1-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.54
TPS79601DCQR	296-13761-2-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3465.00/2,500		
TPS79601KTTT	296-14439-1-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.34	—
TPS79601KTTT	296-14439-2-ND	1.2V to 5.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	91.00/50		
TPS79618DCQR	296-13762-1-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.54
TPS79618DCQR	296-13762-2-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3465.00/2,500		
TPS79618KTTT	296-16664-5-ND	1.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.34	1.82
TPS79625DCQR	296-13763-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.54
TPS79625DCQR	296-13763-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3465.00/2,500		
TPS79625KTTT	296-14441-1-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.60	—
TPS79625KTTT	296-14441-2-ND	2.5V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	117.00/50		
TPS79628DCQR	296-13764-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.54
TPS79628DCQR	296-13764-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3465.00/2,500		
TPS79628DRBT	296-17875-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	8-SON	2.93	2.34	1.82
TPS79628DRBT	296-17875-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	8-SON	432.25/250		
TPS79628KTT	296-14442-5-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.66	2.13	1.66
TPS79628KTTT	296-16737-1-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.34	—
TPS79628KTTT	296-16737-2-ND	2.8V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	91.00/50		
TPS79630DCQR	296-13765-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.54
TPS79630DCQR	296-13765-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3465.00/2,500		
TPS79630KTTT	296-14443-1-ND	3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.34	—
TPS79630KTTT	296-14443-2-ND	3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	91.00/50		
TPS79633DCQR	296-13766-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	2.48	1.98	1.54
TPS79633DCQR	296-13766-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	SOT-223-5	3465.00/2,500		
TPS79633KTTT	296-14444-1-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	2.93	2.34	—
TPS79633KTTT	296-14444-2-ND	3.3V, Ultralow Noise, High PSRR, Fast RF 1A LDO Regulator	5-DDPAK	91.00/50		
TPS79718DCKR	296-11988-1-ND	1.8V, 10mA Micropower LDO Voltage Regulator	SC70-5	1.02	.85	.68
TPS79718DCKR	296-11988-2-ND	1.8V, 10mA Micropower LDO Voltage Regulator	SC70-5	1326.00/3,000		
TPS79730DCKR	296-11989-1-ND	3V, 10mA Micropower LDO Voltage Regulator	SC70-5	1.02	.85	.68
TPS79730DCKR	296-11989-2-ND	3V, 10mA Micro LDO Voltage Reg.	SC70-5	1326.00/3,000		
TPS79733DCKR	296-11990-1-ND	3.3V, 10mA Micro LDO Voltage Reg.	SC70-5	1.02	.85	.68
TPS79733DCKR	296-11990-2-ND	3.3V, 10mA Micro LDO Voltage Reg.	SC70-5	1326.00/3,000		
TPS79901DDCR	296-17776-1-ND	Adj., 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79901DDCR	296-17776-2-ND	Adj., 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79901YZUT	296-18343-1-ND	Adj., 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79901YZUT	296-18343-2-ND	Adj., 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79912YZUT	296-18736-1-ND	1.2V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79912YZUT	296-18736-2-ND	1.2V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79915DDCR	296-17777-1-ND	1.5V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79915DDCR	296-17777-2-ND	1.5V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79918DDCR	296-17778-1-ND	1.8V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79918DDCR	296-17778-2-ND	1.8V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79919YZUT	296-18344-1-ND	1.9V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79919YZUT	296-18344-2-ND	1.9V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79925DDCT	296-17779-1-ND	2.5V, 200mA LDO Linear Regulator	TSOT-23-5	.93	.78	.62
TPS79925DDCT	296-17779-2-ND	2.5V, 200mA LDO Linear Regulator	TSOT-23-5	116.25/250		
TPS79925YZUT	296-18345-1-ND	2.5V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79925YZUT	296-18345-2-ND	2.5V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79927YZUT	296-18346-1-ND	2.7V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79927YZUT	296-18346-2-ND	2.7V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79928DDCR	296-17781-1-ND	2.8V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79928DDCR	296-17781-2-ND	2.8V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79928YZUT	296-18738-1-ND	2.8V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79928YZUT	296-18738-2-ND	2.8V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79930DDCT	296-17782-1-ND	3V, 200mA LDO Linear Regulator	TSOT-23-5	.93	.78	.62
TPS79930DDCT	296-17782-2-ND	3V, 200mA LDO Linear Regulator	TSOT-23-5	116.25/250		
TPS79930YZUT	296-18739-1-ND	3V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79930YZUT	296-18739-2-ND	3V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79933DDCR	296-17783-1-ND	3.3V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS79933DDCR	296-17783-2-ND	3.3V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS79933YZUT	296-18740-1-ND	3.3V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79933YZUT	296-18740-2-ND	3.3V, 200mA LDO Linear Regulator	5-DSBGA	135.00/250		
TPS715345DCKR	296-18732-1-ND	3.45V, 50mA LDO Regulator	SC70-5	1.02	.85	.68
TPS715345DCKR	296-18732-2-ND	3.45V, 50mA LDO Regulator	SC70-5	1326.00/3,000		
TPS726126DCQ	296-18257-ND	1.26V, 1A, LDO Regulator	SOT-223-5	2.48	1.98	1.54
TPS730285YZQR	296-18733-1-ND	2.85V, 200mA LDO Regulator	5-DSBGA	.96	.72	.54
TPS730285YZQR	296-18733-2-ND	2.85V, 200mA LDO Regulator	5-DSBGA	936.00/3,000		
TPS736125DRBT	296-18252-1-ND	1.25V, 400mA LDO Regulator	8-SON	2.38	1.90	1.43
TPS736125DRBT	296-18252-2-ND	1.25V, 400mA LDO Regulator	8-SON	332.50/250		
TPS793285DBVR	296-12157-1-ND	2.85V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS793285DBVR	296-12157-2-ND	2.85V, 200mA High PSRR RF LDO Regulator	SOT-23-5	858.00/3,000		
TPS793285YEQEVM	296-19007-ND	Evaluation Module for TPS793285YEQ	—	14.23	—	—
TPS793285YEQT	296-15725-1-ND	2.85V, 200mA High PSRR RF LDO Regulator	5-DSBGA	.87	.73	.58
TPS793285YEQT	296-15725-2-ND	2.85V, 200mA High PSRR RF LDO Regulator	5-DSBGA	108.75/250		
TPS793285YZQR	296-18065-1-ND	2.85V, 200mA High PSRR RF LDO Regulator	5-DSBGA	.81	.68	.54
TPS793285YZQR	296-18065-2-ND	2.85V, 200mA, High PSRR RF LDO Regulator	5-DSBGA	1053.00/3,000		
TPS793475DBVR	296-12160-1-ND	4.75V, 200mA High PSRR RF LDO Regulator	SOT-23-5	.88	.66	.50
TPS793475DBVR	296-12160-2-ND	4.75V, 200mA High PSRR RF LDO Regulator	SOT-23-5	858.00/3,000		
TPS793475DBVREP	296-18173-1-ND	4.75V, 200mA High PSRR RF LDO Regulator	SOT-23-5	2.28	1.82	1.37
TPS793475DBVREP	296-18173-2-ND	4.75V, 200mA, High PSRR RF LDO Regulator	SOT-23-5	3495.00/3,000		
TPS79901DRVT	296-19299-1-ND	Adj., 200mA LDO Regulator	6-SON	1.20	1.00	.80
TPS79901DRVT	296-19299-2-ND	Adj., 200mA LDO Regulator	6-SON	150.00/250		
TPS79913YZUR	296-19615-1-ND	200mA Ultra Low Noise High PSRR LDO Linear Regulator ***NEW!***	5-DSBGA	.99	.83	.66
TPS79913YZUR	296-19615-2-ND	200mA Ultra Low Noise High PSRR LDO Linear Regulator ***NEW!***	5-DSBGA	1287.00/3,000		
TPS79918DRVT	296-19367-1-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator ***NEW!***	6-SON	1.20	1.00	.80
TPS79918DRVT	296-19367-2-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator ***NEW!***	6-SON	150.00/250		
TPS79918YZUR	296-19482-1-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator ***NEW!***	5-DSBGA	.99	.83	.66
TPS79918YZUR	296-19482-2-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator ***NEW!***	5-DSBGA	1287.00/3,000		
TPS79918YZUT	296-19300-1-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	1.08	.90	.72
TPS79918YZUT	296-19300-2-ND	1.8V, 200mA Ultra Low Noise High PSRR LDO Linear Regulator	5-DSBGA	135.00/250		
TPS79926YZUR	296-19562-1-ND	200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	5-DSBGA	.99	.83	.66
TPS79926YZUR	296-19562-2-ND	200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	5-DSBGA	1287.00/3,000		
TPS79927DRVT	296-19368-1-ND	2.7V, 200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	6-SON	1.20	1.00	.80
TPS79927DRVT	296-19368-2-ND	2.7V, 200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	6-SON	150.00/250		
TPS79928DRVT	296-19369-1-ND	2.8V, 200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	6-SON	1.20	1.00	.80
TPS79928DRVT	296-19369-2-ND	2.8V, 200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	6-SON	150.00/250		
TPS79928YZUR	296-19484-1-ND	2.8V, 200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	5-DSBGA	.99	.83	.66
TPS79928YZUR	296-19484-2-ND	2.8V, 200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	5-DSBGA	1287.00/3,000		
TPS79932YZUR	296-19563-1-ND	200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	5-DSBGA	.99	.83	.66
TPS79932YZUR	296-19563-2-ND	200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	5-DSBGA	1287.00/3,000		
TPS799285DDCR	296-17780-1-ND	2.85V, 200mA LDO Linear Regulator	TSOT-23-5	.87	.73	.58
TPS799285DDCR	296-17780-2-ND	2.85V, 200mA LDO Linear Regulator	TSOT-23-5	1131.00/3,000		
TPS799285YZUR	296-19483-1-ND	2.85V, 200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	5-DSBGA	.99	.83	.66
TPS799285YZUR	296-19483-2-ND	2.85V, 200mA Ultra Low Noise High PSRR LDO Linear Reg. ***NEW!***	5-DSBGA	1287.00/3,000		
TPS799285YZUT	296-18737-1-ND	2.85V, 200mA LDO Linear Regulator	5-DSBGA	1.08	.90	.72

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TPS799285YZUT	296-18737-2-ND	2.85V, 200mA LDO Linear Regulator	5-DSBGA		135.00/250	
UC282T-1	296-15146-5-ND	1.5V, Fast LDO Regulator	TO-220-5	6.20	4.96	4.19
UC282T-2	296-15147-5-ND	2.1V, Fast LDO Regulator	TO-220-5	6.20	4.96	4.19
UC282T-3	296-15148-5-ND	2.5V, Fast LDO Regulator	TO-220-5	6.20	4.96	4.19
UC282T-ADJ	296-15149-5-ND	Adj, Fast LDO Regulator	TO-220-5	6.20	4.96	4.19
UC282TD-1	296-2794-5-ND	1.5V, Fast LDO Regulator	TO-263-5	5.60	4.48	3.78
UC282TD-3	296-2795-5-ND	2.5V, Fast LDO Regulator	TO-263-5	5.60	4.48	3.78
UC282TDKTTT-1	296-16011-1-ND	1.5V, Fast LDO Regulator	TO-263-5	6.20	4.96	—
UC282TDKTTT-1	296-16011-2-ND	1.5V, Fast LDO Regulator	TO-263-5		209.25/50	
UC282TDKTTT-2	296-16012-1-ND	2.1V, Fast LDO Regulator	TO-263-5	6.20	4.96	—
UC282TDKTTT-2	296-16012-2-ND	2.1V, Fast LDO Regulator	TO-263-5		209.25/50	
UC282TDKTTT-3	296-16013-5-ND	2.5V, Fast LDO Regulator	TO-263-5	6.20	4.96	4.19
UC282TDKTTT-ADJ	296-16014-1-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	6.20	4.96	—
UC282TDKTTT-ADJ	296-16014-2-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5		209.25/50	
UC282TDTR-ADJ	296-18067-1-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	6.20	4.96	4.19
UC282TDTR-ADJ	296-18067-2-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5		1968.50/500	
UC282TDTR-1	296-19030-1-ND	1.5V, Fast LDO Regulator	TO-263-5	6.20	4.96	4.19
UC282TDTR-1	296-19030-2-ND	1.5V, Fast LDO Regulator	TO-263-5		1968.50/500	
UC282TDTR-3	296-19031-1-ND	2.5V, Fast LDO Regulator	TO-263-5	6.20	4.96	4.19
UC282TDTR-3	296-19031-2-ND	2.5V, Fast LDO Regulator	TO-263-5		1968.50/500	
UC285T-1	296-15153-5-ND	1.5V, Fast LDO Regulator	TO-220-5	7.30	5.84	4.93
UC285T-2	296-15154-5-ND	2.1V, Fast LDO Regulator	TO-220-5	7.30	5.84	4.93
UC285T-3	296-15155-5-ND	2.5V, Fast LDO Regulator	TO-220-5	7.30	5.84	4.93
UC285T-ADJ	296-15156-5-ND	Adj., Fast LDO Regulator	TO-220-5	7.30	5.84	4.93
UC285TDKTTT-1	296-16015-1-ND	1.5V, Fast LDO Regulator	TO-263-5	7.30	5.84	—
UC285TDKTTT-1	296-16015-2-ND	1.5V, Fast LDO Regulator	TO-263-5		246.40/50	
UC285TDKTTT-2	296-16016-1-ND	2.1V, Fast LDO Regulator	TO-263-5	7.30	5.84	—
UC285TDKTTT-2	296-16016-2-ND	2.1V, Fast LDO Regulator	TO-263-5		246.40/50	
UC285TDKTTT-3	296-16017-1-ND	2.5V, Fast LDO Regulator	TO-263-5	7.30	5.84	—
UC285TDKTTT-3	296-16017-2-ND	2.5V, Fast LDO Regulator	TO-263-5		246.40/50	
UC285TDKTTT-ADJ	296-16018-1-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5	7.30	5.84	—
UC285TDKTTT-ADJ	296-16018-2-ND	1.2V/Adj., Fast LDO Regulator	TO-263-5		246.40/50	
UC382T-1	296-2801-5-ND	1.5V, Fast Transient Response LDO Regulator	TO-220-5	5.40	4.32	3.65
UC382T-2	296-2802-5-ND	2.1V, Fast Transient Response LDO Regulator	TO-220-5	5.40	4.32	3.65
UC382T-3	296-2803-5-ND	2.5V, Fast Transient Response LDO Regulator	TO-220-5	5.40	4.32	3.65
UC382T-ADJ	296-2804-5-ND	Adjustable Fast Transient Response LDO Regulator	TO-220-5	5.40	4.32	3.65
UC382TDKTTT-1	296-16019-1-ND	1.5V Fast Transient Response LDO Regulator	TO-263-5	5.49	4.40	—
UC382TDKTTT-1	296-16019-2-ND	1.5V Fast Transient Response LDO Regulator	TO-263-5		182.25/50	
UC382TDKTTT-2	296-16020-1-ND	2.1V Fast Transient Response LDO Regulator	TO-263-5	5.40	4.32	—
UC382TDKTTT-2	296-16020-2-ND	2.1V Fast Transient Response LDO Regulator	TO-263-5		182.25/50	
UC382TDKTTT-3	296-16021-1-ND	2.5V Fast Transient Response LDO Regulator	TO-263-5	5.40	4.32	—
UC382TDKTTT-3	296-16021-2-ND	2.5V Fast Transient Response LDO Regulator	TO-263-5		182.25/50	
UC382TDKTTT-ADJ	296-16022-5-ND	1.2V/Adj., Fast Transient Response LDO Regulator	TO-263-5	5.40	4.32	3.65
UC382TDTR-2	296-19032-1-ND	2.1V Fast Transient Response LDO Regulator	TO-263-5	5.40	4.32	3.65
UC382TDTR-2	296-19032-2-ND	2.1V Fast Transient Response LDO Regulator	TO-263-5		1714.50/500	
UC382TDTR-3	296-19033-1-ND	2.5V Fast Transient Response LDO Regulator	TO-263-5	5.40	4.32	3.65
UC382TDTR-3	296-19033-2-ND	2.5V Fast Transient Response LDO Regulator	TO-263-5		1714.50/500	
UC385T-1	296-2809-5-ND	1.5V, 5A LDO Regulator	TO-220-5	6.30	5.04	4.26
UC385T-2	296-2810-5-ND	2.1V, 5A LDO Regulator	TO-220-5	6.30	5.04	4.26
UC385T-3	296-2811-5-ND	2.5V, 5A LDO Regulator	TO-220-5	6.30	5.04	4.26
UC385T-ADJ	296-2812-5-ND	Adjustable, 5A LDO Regulator	TO-220-5	6.30	5.04	4.26
UC385TD-2	296-2814-5-ND	2.1V, 5A LDO Regulator	TO-263-5	5.70	4.56	3.85
UC385TDKTTT-1	296-16023-1-ND	1.5V, 5A LDO Regulator	TO-263-5	6.30	5.04	—
UC385TDKTTT-1	296-16023-2-ND	1.5V, 5A LDO Regulator	TO-263-5		212.65/50	
UC385TDKTTT-2	296-16024-1-ND	2.1V, 5A LDO Regulator	TO-263-5	6.30	5.04	—
UC385TDKTTT-2	296-16024-2-ND	2.1V, 5A LDO Regulator	TO-263-5		212.65/50	
UC385TDKTTT-3	296-16025-1-ND	2.5V, 5A LDO Regulator	TO-263-5	6.30	5.04	—
UC385TDKTTT-3	296-16025-2-ND	2.5V, 5A LDO Regulator	TO-263-5		212.65/50	
UC385TDKTTT-ADJ	296-16026-1-ND	1.2V/Adj., 5A LDO Regulator	TO-263-5	6.30	5.04	—
UC385TDKTTT-ADJ	296-16026-2-ND	1.2V/Adj., 5A LDO Regulator	TO-263-5		212.65/50	
UC385TDTR-3	296-19034-1-ND	2.5V, 5A LDO Regulator	TO-263-5	6.30	5.04	4.26
UC385TDTR-3	296-19034-2-ND	2.5V, 5A LDO Regulator	TO-263-5		2000.50/500	
UC2573D	296-2793-5-ND	Buck Pulse PWM Voltage Regulator	8-SOIC	2.70	2.16	1.68
UC2577TDKTTT-ADJ	296-16010-1-ND	Step-Up Voltage Regulator	TO-263-5	10.83	9.75	—
UC2577TDKTTT-ADJ	296-16010-2-ND	Step-Up Voltage Regulator	TO-263-5		432.25/50	
UC2578DP	296-19029-5-ND	Buck PWM Step-Down Voltage Regulator	16-SOIC	6.80	5.44	4.59
UC2832TDWEP	296-18185-5-ND	4.5V to 36V, Precision LDO Linear Controller	16-SOIC	8.40	7.56	6.71
UC2834DW	296-2797-5-ND	High-Efficiency Linear Regulator	16-SOIC	11.41	10.28	9.12
UC2835D	296-2798-5-ND	High-Efficiency Regulator Controller	8-SOIC	8.60	6.88	5.81
UC2836D	296-2799-5-ND	High-Efficiency Regulator Controller	8-SOIC	9.00	8.10	7.19
UC3832N	296-11273-5-ND	Adjustable, 100mA LDO Regulator	14-Dip	5.00	4.00	3.38
UC3833N	296-11274-5-ND	Adjustable, 100mA LDO Regulator	8-Dip	5.40	4.32	3.36
UC3834DW	296-2808-5-ND	High-Efficiency Linear Regulator	16-SOIC	9.41	8.48	7.52
UCC281DP-5	296-2817-5-ND	5V, 1A LDO Regulator	8-SOIC	4.95	3.96	3.08
UCC281DP-ADJ	296-2818-5-ND	Adjustable, 1A LDO Regulator	8-SOIC	4.95	3.96	3.08
UCC283T-3	296-11413-5-ND	3.3V, 3A LDO Regulator	TO-220	6.20	4.96	4.19
UCC283T-5	296-11414-5-ND	5V, 3A LDO Regulator	TO-220	6.20	4.96	4.19
UCC283T-ADJ	296-15163-5-ND	Adj., 3A LDO Regulator	TO-220	6.20	4.96	4.19
UCC283TD-3	296-15065-5-ND	3.3V, 3A LDO Regulator	TO-263	5.60	4.48	3.78
UCC283TD-5	296-15164-5-ND	5V, 3A LDO Regulator	TO-263	5.60	4.48	3.78
UCC283TDKTTT-ADJ	296-16027-1-ND	Adj., 3A LDO Regulator	TO-263-5	6.20	4.96	—
UCC283TDKTTT-ADJ	296-16027-2-ND	Adj., 3A LDO Regulator	TO-263-5		209.25/50	
UCC283TDKTTT-3	296-17787-1-ND	3.3V, 3A LDO Regulator	TO-263-5	6.20	4.96	—
UCC283TDKTTT-3	296-17787-2-ND	3.3V, 3A LDO Regulator	TO-263-5		209.25/50	
UCC283TDKTTT-5	296-19039-5-ND	5V, 3A LDO Regulator	TO-263	6.20	4.96	4.19
UCC284DP-12	296-11415-5-ND	12V, 500mA Negative LDO Regulator	8-SOIC	5.60	4.48	3.78
UCC284DP-5	296-11416-5-ND	5V, 500mA Negative LDO Regulator	8-SOIC	5.60	4.48	3.78

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
UCC284DP-ADJ	296-11417-5-ND	Adj., 500mA Negative LDO Regulator	8-SOIC	5.60	4.48	3.78
UCC381DP-3	296-2819-5-ND	3.3V, 1A LDO Regulator	8-SOIC	4.28	3.42	2.66
UCC381DP-5	296-2820-5-ND	5V, 1A LDO Regulator	8-SOIC	4.28	3.42	2.66
UCC381DP-ADJ	296-2821-5-ND	Adjustable, 1A LDO Regulator	8-SOIC	4.28	3.42	2.66
UCC383T-3	296-8156-5-ND	3.3V, 3A LDO Linear Regulator	TO-220	5.40	4.32	3.65
UCC383T-5	296-8157-5-ND	5V, 3A LDO Linear Regulator	TO-220	5.40	4.32	3.65
UCC383T-ADJ	296-8158-5-ND	Adjustable, 3A LDO Linear Regulator	TO-220	5.40	4.32	3.65
UCC383TD-ADJ	296-8161-5-ND	Adjustable, 3A LDO Linear Regulator	TO-263-5	5.49	4.40	3.42
UCC383TDKTTT-3	296-16028-1-ND	3.3V, 3A LDO Linear Regulator	TO-263-5	5.40	4.86	—
UCC383TDKTTT-3	296-16028-2-ND	3.3V, 3A LDO Linear Regulator	TO-263-5		182.25/50	
UCC383TDKTTT-5	296-16029-1-ND	5V, 3A LDO Linear Regulator	TO-263-5	5.40	4.32	—
UCC383TDKTTT-5	296-16029-2-ND	5V, 3A LDO Linear Regulator	TO-263-5		182.25/50	
UCC383TDKTTT-ADJ	296-16030-1-ND	Adj., 3A LDO Linear Regulator	TO-263-5	5.40	4.32	—
UCC383TDKTTT-ADJ	296-16030-2-ND	Adj., 3A LDO Linear Regulator	TO-263-5		182.25/50	
UCC384DP-12	296-8162-5-ND	–12V, 0.5A LDO Linear Regulator	8-SOIC	4.39	3.51	2.73
UCC384DP-5	296-8163-5-ND	–5V, 0.5A LDO Linear Regulator	8-SOIC	4.39	3.51	2.73
UCC384DP-ADJ	296-8164-5-ND	Neg. Adj. 0.5A LDO Linear Regulator	8-SOIC	4.39	3.51	2.73
UCC2817PW	296-15161-5-ND	BiCMOS Power Factor Preregulator	16-TSSOP	2.81	2.25	1.75
UCC2818PW	296-15162-5-ND	BiCMOS Power Factor Preregulator	16-TSSOP	2.81	2.25	1.75
UCC3817PW	296-15166-5-ND	BiCMOS Power Factor Preregulator	16-TSSOP	2.59	2.07	1.61
UCC3818PW	296-15167-5-ND	BiCMOS Power Factor Preregulator	16-TSSOP	2.59	2.07	1.61
UC3833DWTR	296-13767-1-ND	Precision LDO Linear Controller	16-SOIC	5.40	4.32	3.36
UC3833DWTR	296-13767-2-ND	Precision LDO Linear Controller	16-SOIC		6120.00/2,000	

Voltage Regulators

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LFC789D25CDR	296-17214-1-ND	Dual Linear FET Controller	8-SOIC	.96	.72	.54
LFC789D25CDR	296-17214-2-ND	Dual Linear FET Controller	8-SOIC		780.00/2,500	
LFC789D25CPWR	296-17215-1-ND	Dual Linear FET Controller	8-TSSOP	.96	.72	.54
LFC789D25CPWR	296-17215-2-ND	Dual Linear FET Controller	8-TSSOP		638.00/2,000	
LM317LCDR	296-17220-1-ND	3-Terminal Adjustable Regulator	8-SOIC	.49	.40	.27
LM317LCDR	296-17220-2-ND	3-Terminal Adjustable Regulator	8-SOIC		320.00/2,500	
LM317MKTPRG3	296-18689-1-ND	3-Terminal Adjustable Regulator	2-PFM	.88	.66	.50
LM317MKTPRG3	296-18689-2-ND	3-Terminal Adjustable Regulator	2-PFM		858.00/3,000	
LM317MKVURG3	296-19495-1-ND	3-Terminal Adj. Regulator ***NEW!***	3-PFM	.88	.66	.50
LM317MKVURG3	296-19495-2-ND	3-Terminal Adj. Regulator ***NEW!***	3-PFM		715.00/2,500	
LM337KC	296-9550-5-ND	Adj., 1.5A Negative Voltage Reg.	TO-220AB	.93	.78	.62
LM337KTER	296-9551-1-ND	Adj., 1.5A Negative Voltage Regulator	3-PFM	.93	.78	.62
LM337KTER	296-9551-2-ND	Adj., 1.5A Negative Voltage Regulator	3-PFM		824.00/2,000	
LM337KTPR	296-17847-1-ND	Adj., 1.5A Negative Voltage Regulator	2-PFM	.92	.69	.52
LM337KTPR	296-17847-2-ND	Adj., 1.5A Negative Voltage Regulator	2-PFM		897.00/3,000	
MC79L05ACDR	296-1016-1-ND	5V Fixed Negative Voltage Regulator	8-SOIC	.50	.40	.30
MC79L05ACDR	296-1016-2-ND	5V Fixed Negative Voltage Regulator	8-SOIC		337.50/2,500	
MC79L05ACLP	296-9603-5-ND	5V Fixed Negative Voltage Reg.	TO-226AA	.40	.32	.24
MC79L12ACD	296-9604-5-ND	12V Fixed Negative Voltage Regulator	8-SOP	.40	.32	.24
MC79L12ACLPR	296-9605-1-ND	12V Fixed Negative Voltage Regulator	T0-226	.40	.32	.24
MC79L12ACLPR	296-9605-2-ND	12V Fixed Negative Voltage Regulator	T0-226		224.00/2,000	
MC79L12CLP	296-9606-5-ND	12V Fixed Negative Voltage Reg.	TO-226AA	.55	.44	.33
MC79L15ACLP	296-9607-5-ND	15V Fixed Negative Voltage Reg.	TO-226AA	.50	.40	.30
TL-SCSI285KC	296-10125-5-ND	2.85V Fixed Volt. Reg. for SCSI	TO-220AB	1.50	1.20	.90
TL-SCSI285PWR	296-10126-1-ND	2.85V Fixed Volt. Reg. for SCSI	20-TSSOP	1.50	1.20	.90
TL-SCSI285PWR	296-10126-2-ND	2.85V Fixed Volt. Reg. for SCSI	20-TSSOP		1560.00/2,000	
TL317CD	296-11823-5-ND	3-Terminal Adj. Regulator	8-SOIC	.40	.32	.24
TL317CLP	296-10167-5-ND	3-Terminal Adj. Regulator	TO-92	.40	.32	.24
TL317CLPR	296-15008-1-ND	3-Terminal Adj. Regulator	TO-226	.40	.32	.24
TL317CLPR	296-15008-2-ND	3-Terminal Adj. Regulator	TO-226		224.00/2,000	
TL317CPWR	296-13351-1-ND	3-Terminal Adj. Regulator	8-TSSOP	.46	.37	.26
TL317CPWR	296-13351-2-ND	3-Terminal Adj. Regulator	8-TSSOP		252.00/2,000	
TL431ACD	296-1286-5-ND	Adj. Precision Shunt Regulator	8-SOIC	.45	.36	.27
TL431ACDBVR	296-15236-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.45	.36	.27
TL431ACDBVR	296-15236-2-ND	Adj. Precision Shunt Regulator	SOT-23-5		366.00/3,000	
TL431ACDBVT	296-15323-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.96	.72	.54
TL431ACDBVT	296-15323-2-ND	Adj. Precision Shunt Regulator	SOT-23-5		99.50/250	
TL431ACDBZR	296-17328-1-ND	Adj. Precision Shunt Regulator	SOT-23	.45	.36	.27
TL431ACDBZR	296-17328-2-ND	Adj. Precision Shunt Regulator	SOT-23		366.00/3,000	
TL431ACDCKR	296-17863-1-ND	Adj. Precision Shunt Regulator	SC70-6	.40	.32	.24
TL431ACDCKR	296-17863-2-ND	Adj. Precision Shunt Regulator	SC70-6		324.00/3,000	
TL431ACDR	296-1286-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.45	.36	.27
TL431ACDR	296-1286-2-ND	Adj. Precision Shunt Regulator	8-SOIC		305.00/2,500	
TL431ACLP	296-1287-ND	Adj. Precision Shunt Regulator	TO-92	.45	.36	.27
TL431ACLPR	296-1287-1-ND	Adj. Precision Shunt Regulator	TO-92	.45	.36	.27
TL431ACLPR	296-1287-2-ND	Adj. Precision Shunt Regulator	TO-92		252.00/2,000	
TL431ACP	296-10182-5-ND	Adj. Precision Shunt Regulator	8-Dip	.45	.36	.27
TL431ACPK	296-17037-1-ND	Adj. Precision Shunt Regulator	SOT-89	.55	.44	.33
TL431ACPK	296-17037-2-ND	Adj. Precision Shunt Regulator	SOT-89		154.00/1,000	
TL431ACPSR	296-13352-1-ND	Adj. Precision Shunt Regulator	8-SOP	.45	.36	.27
TL431ACPSR	296-13352-2-ND	Adj. Precision Shunt Regulator	8-SOP		252.00/2,000	
TL431ACPWR	296-13353-1-ND	Adj. Precision Shunt Regulator	8-SSOP	.45	.36	.27
TL431ACPWR	296-13353-2-ND	Adj. Precision Shunt Regulator	8-SSOP		252.00/2,000	
TL431AID	296-1288-5-ND	Adj. Precision Shunt Regulator	8-SOIC	.50	.40	.30
TL431AIDBVT	296-15324-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.75	.63	.50
TL431AIDBVT	296-15324-2-ND	Adj. Precision Shunt Regulator	SOT-23-5		93.75/250	
TL431AIDBZR	296-17329-1-ND	Adj. Precision Shunt Regulator	SOT-23	.50	.40	.30
TL431AIDBZR	296-17329-2-ND	Adj. Precision Shunt Regulator	SOT-23		405.00/3,000	
TL431AIDCKR	296-17864-1-ND	Adj. Precision Shunt Regulator	SC70-6	.40	.32	.24
TL431AIDCKR	296-17864-2-ND	Adj. Precision Shunt Regulator	SC70-6		324.00/3,000	
TL431AIDR	296-1288-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.50	.40	.30
TL431AIDR	296-1288-2-ND	Adj. Precision Shunt Regulator	8-SOIC		337.50/2,500	
TL431AILP	296-10183-5-ND	Adj. Precision Shunt Regulator	TO-226AA	.50	.40	.30
TL431AILPR	296-10183-1-ND	Adj. Precision Shunt Regulator	TO-226AA	.50	.40	.30
TL431AILPR	296-10183-2-ND	Adj. Precision Shunt Regulator	TO-226AA		280.00/2,000	
TL431AIP	296-10184-5-ND	Adj. Precision Shunt Regulator	8-Dip	.50	.40	.30
TL431AIPK	296-17038-1-ND	Adj. Precision Shunt Regulator	SOT-89	.48	.36	.27
TL431AIPK	296-17038-2-ND	Adj. Precision Shunt Regulator	SOT-89		160.00/1,000	
TL431AQDBVR	296-17330-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.60	.45	.34
TL431AQDBVR	296-17330-2-ND	Adj. Precision Shunt Regulator	SOT-23-5		585.00/3,000	
TL431AQDBZR	296-18864-1-ND	Adj. Precision Shunt Regulator	SOT-23	.60	.45	.34
TL431AQDBZR	296-18864-2-ND	Adj. Precision Shunt Regulator	SOT-23		585.00/3,000	
TL431AQDCKR	296-17865-1-ND	Adj. Precision Shunt Regulator	SC70-6	.68	.51	.39
TL431AQDCKR	296-17865-2-ND	Adj. Precision Shunt Regulator	SC70-6		663.00/3,000	
TL431AQPK	296-18236-1-ND	Adj. Precision Shunt Regulator	SOT-89	.76	.57	.43

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

TEXAS INSTRUMENTS POWER SUPPLY PRODUCTS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TL431AQPK	296-18236-2-ND	Adj. Precision Shunt Regulator	SOT-89	253.00/1,000		
TL431BCDBVR	296-18865-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.52	.39	.30
TL431BCDBVR	296-18865-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	507.00/3,000		
TL431BCDBZR	296-18866-1-ND	Adj. Precision Shunt Regulator	SOT-23	.52	.39	.30
TL431BCDBZR	296-18866-2-ND	Adj. Precision Shunt Regulator	SOT-23	507.00/3,000		
TL431BCDCKR	296-17866-1-ND	Adj. Precision Shunt Regulator	SC70-6	.52	.39	.30
TL431BCDCKR	296-17866-2-ND	Adj. Precision Shunt Regulator	SC70-6	507.00/3,000		
TL431BCDR	296-18867-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.52	.39	.30
TL431BCDR	296-18867-2-ND	Adj. Precision Shunt Regulator	8-SOIC	422.50/2,500		
TL431BCLPR	296-17374-1-ND	Adj. Precision Shunt Regulator	TO-92	.52	.39	.30
TL431BCLPR	296-17374-2-ND	Adj. Precision Shunt Regulator	TO-92	346.00/2,000		
TL431BCP	296-18868-5-ND	Adj. Precision Shunt Regulator	8-Dip	.52	.39	.30
TL431BCPK	296-18058-1-ND	Adj. Precision Shunt Regulator	SOT-89	.60	.45	.34
TL431BCPK	296-18058-2-ND	Adj. Precision Shunt Regulator	SOT-89	200.00/1,000		
TL431BCPSR	296-18869-1-ND	Adj. Precision Shunt Regulator	8-SOP	.52	.39	.30
TL431BCPSR	296-18869-2-ND	Adj. Precision Shunt Regulator	8-SOP	346.00/2,000		
TL431BCPWR	296-18870-1-ND	Adj. Precision Shunt Regulator	8-TSSOP	.52	.39	.30
TL431BCPWR	296-18870-2-ND	Adj. Precision Shunt Regulator	8-TSSOP	346.00/2,000		
TL431BIDBVR	296-18871-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.60	.45	.34
TL431BIDBVR	296-18871-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	585.00/3,000		
TL431BIDBZR	296-18872-1-ND	Adj. Precision Shunt Regulator	SOT-23	.60	.45	.34
TL431BIDBZR	296-18872-2-ND	Adj. Precision Shunt Regulator	SOT-23	585.00/3,000		
TL431BIDR	296-18873-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.60	.45	.34
TL431BIDR	296-18873-2-ND	Adj. Precision Shunt Regulator	8-SOIC	487.50/2,500		
TL431BIP	296-18874-5-ND	Adj. Precision Shunt Regulator	8-Dip	.60	.45	.34
TL431BIPK	296-18060-1-ND	Adj. Precision Shunt Regulator	SOT-89	.68	.51	.39
TL431BIPK	296-18060-2-ND	Adj. Precision Shunt Regulator	SOT-89	226.00/1,000		
TL431BQDR	296-17886-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.84	.63	.48
TL431BQDR	296-17886-2-ND	Adj. Precision Shunt Regulator	8-SOIC	682.50/2,500		
TL431BQLPME3	296-19380-ND	Adj. Precision Shunt Regulator ***NEW!***	TO-92	.84	.63	.48
TL431BQPK	296-18237-1-ND	Adj. Precision Shunt Regulator	SOT-89	.92	.69	.52
TL431BQPK	296-18237-2-ND	Adj. Precision Shunt Regulator	SOT-89	306.00/1,000		
TL431BIDCKR	296-17867-1-ND	Adj. Precision Shunt Regulator	SC70-6	.60	.45	.34
TL431BIDCKR	296-17867-2-ND	Adj. Precision Shunt Regulator	SC70-6	585.00/3,000		
TL431BILPR	296-17375-1-ND	Adj. Precision Shunt Regulator	TO-92	.60	.45	.34
TL431BILPR	296-17375-2-ND	Adj. Precision Shunt Regulator	TO-92	400.00/2,000		
TL431BQDBVR	296-17311-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.84	.63	.48
TL431BQDBVR	296-17311-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	819.00/3,000		
TL431BQDBZR	296-17623-1-ND	Adj. Precision Shunt Regulator	SOT-23	.84	.63	.48
TL431BQDBZR	296-17623-2-ND	Adj. Precision Shunt Regulator	SOT-23	819.00/3,000		
TL431BQDCKR	296-17868-1-ND	Adj. Precision Shunt Regulator	SC70-6	.84	.63	.48
TL431BQDCKR	296-17868-2-ND	Adj. Precision Shunt Regulator	SC70-6	819.00/3,000		
TL431BQLPR	296-17376-1-ND	Adj. Precision Shunt Regulator	TO-92	.84	.63	.48
TL431BQLPR	296-17376-2-ND	Adj. Precision Shunt Regulator	TO-92	558.00/2,000		
TL431CD	296-1289-5-ND	Adj. Precision Shunt Regulator	8-SOIC	.40	.32	.24
TL431CDBZR	296-17331-1-ND	Adj. Precision Shunt Regulator	SOT-23	.40	.32	.24
TL431CDBZR	296-17331-2-ND	Adj. Precision Shunt Regulator	SOT-23	324.00/3,000		
TL431CDR	296-1289-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.40	.32	.24
TL431CDR	296-1289-2-ND	Adj. Precision Shunt Regulator	8-SOIC	270.00/2,500		
TL431CDBVR	296-10185-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.40	.32	.24
TL431CDBVR	296-10185-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	324.00/3,000		
TL431CLP	296-1290-ND	Adj. Precision Shunt Regulator	TO-92	.40	.32	.24
TL431CLPR	296-1290-1-ND	Adj. Precision Shunt Regulator	TO-92	.40	.32	.24
TL431CLPR	296-1290-2-ND	Adj. Precision Shunt Regulator	TO-92	224.00/2,000		
TL431CP	296-1798-5-ND	Adj. Precision Shunt Regulator	8-Dip	.50	.40	.30
TL431CPK	296-1991-1-ND	Adj. Precision Shunt Regulator	SOT-89	.50	.40	.30
TL431CPWR	296-12497-1-ND	Adj. Precision Shunt Regulator	8-TSSOP	.40	.32	.24
TL431CPWR	296-12497-2-ND	Adj. Precision Shunt Regulator	8-TSSOP	224.00/2,000		
TL431IDBVR	296-10187-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.45	.36	.27
TL431IDBVR	296-10187-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	366.00/3,000		
TL431IDBZR	296-17332-1-ND	Adj. Precision Shunt Regulator	SOT-23	.45	.36	.27
TL431IDBZR	296-17332-2-ND	Adj. Precision Shunt Regulator	SOT-23	366.00/3,000		
TL431IDR	296-1291-1-ND	Adj. Precision Shunt Regulator	8-SOIC	.45	.36	.27
TL431IDR	296-1291-2-ND	Adj. Precision Shunt Regulator	8-SOIC	305.00/2,500		
TL431ILP	296-1292-ND	Adj. Precision Shunt Regulator	TO-92	.45	.36	.27
TL431ILPR	296-1292-1-ND	Adj. Precision Shunt Regulator	TO-92	.45	.36	.27
TL431ILPR	296-1292-2-ND	Adj. Precision Shunt Regulator	TO-92	252.00/2,000		
TL431IP	296-10188-5-ND	Adj. Precision Shunt Regulator	8-Dip	.45	.36	.27
TL431IPK	296-10189-1-ND	Adj. Precision Shunt Regulator	SOT-89	.55	.44	.33
TL431IPK	296-10189-2-ND	Adj. Precision Shunt Regulator	SOT-89	154.00/1,000		
TL431QDBVR	296-17333-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.52	.39	.30
TL431QDBVR	296-17333-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	507.00/3,000		
TL431QDBZR	296-17334-1-ND	Adj. Precision Shunt Regulator	SOT-23	.52	.39	.30
TL431QDBZR	296-17334-2-ND	Adj. Precision Shunt Regulator	SOT-23	507.00/3,000		
TL431QDCKR	296-17869-1-ND	Adj. Precision Shunt Regulator	SC70-6	.56	.42	.32
TL431QDCKR	296-17869-2-ND	Adj. Precision Shunt Regulator	SC70-6	546.00/3,000		
TL431QPK	296-18238-1-ND	Adj. Precision Shunt Regulator	SOT-89	.60	.45	.34
TL431QPK	296-18238-2-ND	Adj. Precision Shunt Regulator	SOT-89	200.00/1,000		
TL432ACDBVR	296-17335-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.40	.32	.24
TL432ACDBVR	296-17335-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	324.00/3,000		
TL432ACDBZR	296-17336-1-ND	Adj. Precision Shunt Regulator	SOT-23	.45	.36	.27
TL432ACDBZR	296-17336-2-ND	Adj. Precision Shunt Regulator	SOT-23	366.00/3,000		
TL432ACPK	296-18239-1-ND	Adj. Precision Shunt Regulator	SOT-89	.55	.44	.33
TL432ACPK	296-18239-2-ND	Adj. Precision Shunt Regulator	SOT-89	154.00/1,000		
TL432AIDBVR	296-17337-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.50	.40	.30
TL432AIDBVR	296-17337-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	405.00/3,000		
TL432AIDBZR	296-17338-1-ND	Adj. Precision Shunt Regulator	SOT-23	.55	.44	.33
TL432AIDBZR	296-17338-2-ND	Adj. Precision Shunt Regulator	SOT-23	447.00/3,000		
TL432AIPK	296-18240-1-ND	Adj. Precision Shunt Regulator	SOT-89	.48	.36	.27
TL432AIPK	296-18240-2-ND	Adj. Precision Shunt Regulator	SOT-89	160.00/1,000		
TL432AQDBVR	296-17339-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.68	.51	.39
TL432AQDBVR	296-17339-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	663.00/3,000		
TL432AQDBZR	296-17340-1-ND	Adj. Precision Shunt Regulator	SOT-23	.72	.54	.41
TL432AQDBZR	296-17340-2-ND	Adj. Precision Shunt Regulator	SOT-23	702.00/3,000		
TL432AQPK	296-18241-1-ND	Adj. Precision Shunt Regulator	SOT-89	.76	.57	.43
TL432AQPK	296-18241-2-ND	Adj. Precision Shunt Regulator	SOT-89	253.00/1,000		
TL432BCDBVR	296-18875-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.68	.51	.39
TL432BCDBVR	296-18875-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	663.00/3,000		
TL432BCDBZR	296-18876-1-ND	Adj. Precision Shunt Regulator	SOT-23	.72	.54	.41
TL432BCDBZR	296-18876-2-ND	Adj. Precision Shunt Regulator	SOT-23	702.00/3,000		
TL432BCPK	296-18242-1-ND	Adj. Precision Shunt Regulator	SOT-89	.60	.45	.34
TL432BCPK	296-18242-2-ND	Adj. Precision Shunt Regulator	SOT-89	200.00/1,000		
TL432BIDBVR	296-18877-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.76	.57	.43
TL432BIDBVR	296-18877-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	741.00/3,000		
TL432BIDBZR	296-18878-1-ND	Adj. Precision Shunt Regulator	SOT-23	.80	.60	.45
TL432BIDBZR	296-18878-2-ND	Adj. Precision Shunt Regulator	SOT-23	780.00/3,000		
TL432BIPK	296-18243-1-ND	Adj. Precision Shunt Regulator	SOT-89	.68	.51	.39
TL432BIPK	296-18243-2-ND	Adj. Precision Shunt Regulator	SOT-89	226.00/1,000		
TL432BQDBVR	296-18879-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.81	.68	.54
TL432BQDBVR	296-18879-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	1053.00/3,000		
TL432BQDBZR	296-18880-1-ND	Adj. Precision Shunt Regulator	SOT-23	.81	.68	.54
TL432BQDBZR	296-18880-2-ND	Adj. Precision Shunt Regulator	SOT-23	1053.00/3,000		
TL432BQPK	296-18244-1-ND	Adj. Precision Shunt Regulator	SOT-89	.92	.69	.52
TL432BQPK	296-18244-2-ND	Adj. Precision Shunt Regulator	SOT-89	306.00/1,000		
TL432CDBVR	296-17341-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.40	.32	.24
TL432CDBVR	296-17341-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	324.00/3,000		
TL432CDBZR	296-17342-1-ND	Adj. Precision Shunt Regulator	SOT-23	.45	.36	.27
TL432CDBZR	296-17342-2-ND	Adj. Precision Shunt Regulator	SOT-23	366.00/3,000		
TL432CPK	296-18245-1-ND	Adj. Precision Shunt Regulator	SOT-89	.50	.40	.30
TL432CPK	296-18245-2-ND	Adj. Precision Shunt Regulator	SOT-89	140.00/1,000		
TL432IDBVR	296-17343-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.45	.36	.27
TL432IDBVR	296-17343-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	366.00/3,000		
TL432IDBZR	296-17344-1-ND	Adj. Precision Shunt Regulator	SOT-23	.50	.40	.30
TL432IDBZR	296-17344-2-ND	Adj. Precision Shunt Regulator	SOT-23	405.00/3,000		
TL432IPK	296-18246-1-ND	Adj. Precision Shunt Regulator	SOT-89	.55	.44	.33
TL432IPK	296-18246-2-ND	Adj. Precision Shunt Regulator	SOT-89	154.00/1,000		
TL432QDBVR	296-17345-1-ND	Adj. Precision Shunt Regulator	SOT-23-5	.56	.42	.32
TL432QDBVR	296-17345-2-ND	Adj. Precision Shunt Regulator	SOT-23-5	546.00/3,000		
TL432QDBZR	296-17346-1-ND	Adj. Precision Shunt Regulator	SOT-23	.60	.45	.34
TL432QDBZR	296-17346-2-ND	Adj. Precision Shunt Regulator	SOT-23	585.00/3,000		
TL432QPK	296-18247-1-ND	Adj. Precision Shunt Regulator	SOT-89	.60	.45	.34
TL432QPK	296-18247-2-ND	Adj. Precision Shunt Regulator	SOT-89	200.00/1,000		
TL497ACD	296-10195-5-ND	1.2V Switching Voltage Regulator	14-SOIC	1.44	1.20	.96
TL497ACDR	296-10195-1-ND	1.2V Switching Voltage Regulator	14-SOIC	1.44	1.20	.96
TL497ACDR	296-10195-2-ND	1.2V Switching Voltage Regulator	14-SOIC	1560.00/2,500		
TL497ACN	296-10196-5-ND	1.2V Switching Voltage Regulator	14-Dip	1.44	1.20	.96
TL497AID	296-10197-5-ND	1.2V Switching Voltage Regulator	14-SOIC	1.33	1.06	.80
TL497AIDR	296-10197-1-ND	1.2V Switching Voltage Regulator	14-SOIC	1.33	1.06	.80
TL497AIDR	296-10197-2-ND	1.2V Switching Voltage Regulator	14-SOIC	1695.00/2,500		
TL497AIN	296-10198-5-ND	1.2V Switching Voltage Regulator	14-Dip	1.33	1.06	.80
TL780-05CKC	296-1803-5-ND	5.0V, 1.5A Fixed Positive Volt. Reg.	TO-220AB	.81	.68	.54
TL780-05CKTER	296-12396-1-ND	5.0V, 1.5A Fixed Positive Voltage Reg.	3-PFM	.90	.75	.60
TL780-05CKTER	296-12396-2-ND	5.0V, 1.5A Fixed Positive Voltage Reg.	3-PFM	798.00/2,000		
TL780-05KCS	296-14324-5-ND	5.0V, 1.5A Fixed Positive Voltage Reg.	TO-220	.72	.54	.41
TL780-12CKC	296-10227-5-ND	12V, Fixed Positive Volt. Regulator	TO-220AB	.81	.68	.54
TL780-12KCS	296-14325-5-ND	12V, Fixed Positive Volt. Regulator	TO-220	.72	.54	.41
TL780-15CKC	296-10228-5-ND	15V, Fixed Positive Volt. Regulator	TO-220AB	.81	.68	.54
TL780-15KCS	296-14326-5-ND	15V, Fixed Positive Volt. Regulator	TO-220	.72	.54	.41
TL1431CD	296-10129-5-ND	Adj. Programmable Shunt Regulator	8-SOIC	.80	.60	.45
TL1431CDR	296-10129-1-ND	Adj. Programmable Shunt Regulator	8-SOIC	.80	.60	.45
TL1431CDR	296-10129-2-ND	Adj. Programmable Shunt Regulator	8-SOIC	650.00/2,500		
TL1431CLPR	296-10130-1-ND	Adj. Programmable Shunt Reg.	TO-226AA	.80	.60	.45
TL1431CLPR	296-10130-2-ND	Adj. Programmable Shunt Reg.	TO-226AA	532.00/2,000		
TL1431CPWR	296-12607-1-ND	Adj. Programmable Shunt Regulator	8-TSSOP	.80	.60	.45
TL1431CPWR	296-12607-2-ND	Adj. Programmable Shunt Regulator	8-TSSOP	532.00/2,000		
TL1431QD	296-10131-5-ND	Adj. Programmable Shunt Regulator	8-SOIC	.90	.75	.60
TL1431QDR	296-17021-1-ND	Adj. Programmable Shunt Regulator	8-SOIC	1.20	.90	.68
TL1431QDR	296-17021-2-ND	Adj. Programmable Shunt Regulator	8-SOIC	975.00/2,500		
TL1431QDREP	296-18135-1-ND	Adj. Programmable Shunt Regulator	8-SOIC	2.25	1.80	1.35
TL1431QDREP	296-18135-2-ND	Adj. Programmable Shunt Regulator	8-SOIC	2880.00/2,500		
TL1431QLPR	296-10132-1-ND	Adj. Programmable Shunt Regulator	TO-92	1.77	1.48	1.18
TL1431QLPR	296-10132-2-ND	Adj. Programmable Shunt Regulator	TO-92	1570.00/2,000		
TL2218-285PWR	296-10163-1-ND	2.85V, SCSI Fixed Regulator	20-TSSOP	3.31	2.65	2.06
TL2218-285PWR	296-10163-2-ND	2.85V, SCSI Fixed Regulator	20-TSSOP	3748.00/2,000		
TLV431ACDBVR	296-1348-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.56	.42	.32
TLV431ACDBVR	296-1348-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	546.00/3,000		
TLV431ACDBZR	296-18912-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.56	.42	.32
TLV431ACDBZR	296-18912-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	546.00/3,000		
TLV431ACLP	296-10723-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.56	.42	.32
TLV431AID	296-10724-5-ND	Low Voltage Adj. Shunt Regulator	8-SOIC	.64	.48	.36
TLV431AIDBVR	296-1984-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.64	.48	.36
TLV431AIDBVR	296-1984-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	624.00/3,000		
TLV431AIDBZR	296-18913-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.64	.48	.36
TLV431AIDBZR	296-18913-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	624.00/3,000		
TLV431AIDR	296-15032-1-ND	Low Voltage Adj. Shunt Regulator	8-SOIC	.64	.48	.36
TLV431AIDR	296-15032-2-ND	Low Voltage Adj. Shunt Regulator	8-SOIC	520.00/2,500		
TLV431AILP	296-10725-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.64	.48	.36
TLV431AQPKG3	296-19337-1-ND	Low Voltage Adj. Shunt Regulator ***NEW!***	SOT-89	.84	.70	.56
TLV431AQPKG3	296-19337-2-ND	Low Voltage Adj. Shunt Regulator ***NEW!***	SOT-89	372.00/1,000		
TLV431BCDBVR	296-17568-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.84	.63	.48
TLV431BCDBVR	296-17568-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	819.00/3,000		
TLV431BCDBZR	296-17569-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.84	.63	.48
TLV431BCDBZR	296-17569-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	819.00/3,000		
TLV431BCDCKR	296-17794-1-ND	Low Voltage Adj. Shunt Regulator	SC70-6	.88	.66	.50
TLV431BCDCKR	296-17794-2-ND	Low Voltage Adj. Shunt Regulator	SC70-6	858.00/3,000		
TLV431BCLPR	296-17809-1-ND	Low Voltage Adj. Shunt Regulator	TO-92	.84	.63	.48
TLV431BCLPR	296-17809-2-ND	Low Voltage Adj. Shunt Regulator	TO-92	558.00/2,000		
TLV431BCPKG3	296-19338-1-ND	Low Voltage Adj. Shunt Regulator ***NEW!***	SOT-89	.78	.65	.52
TLV431BCPKG3	296-19338-2-ND	Low Voltage Adj. Shunt Regulator ***NEW!***	SOT-89	346.00/1,000		
TLV431BIDBVR	296-17570-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.92	.69	.52
TLV431BIDBVR	296-17570-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	897.00/3,000		
TLV431BIDBZR	296-17571-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.92	.69	.52
TLV431BIDBZR	296-17571-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	897.00/3,000		
TLV431BIDCKR	296-17795-1-ND	Low Voltage Adj. Shunt Regulator	SC70-6	.96	.72	.54
TLV431BIDCKR	296-17795-2-ND	Low Voltage Adj. Shunt Regulator	SC70-6	936.00/3,000		
TLV431BILPR	296-17810-1-ND	Low Voltage Adj. Shunt Regulator	TO-92	.92	.69	.52
TLV431BILPR	296-17810-2-ND	Low Voltage Adj. Shunt Regulator	TO-92	612.00/2,000		
TLV431BIPKG3	296-19339-1-ND	Low Voltage Adj. Shunt Regulator ***NEW!***	SOT-89	.87	.73	.58
TLV431BIPKG3	296-19339-2-ND	Low Voltage Adj. Shunt Regulator ***NEW!***	SOT-89	386.00/1,000		
TLV431BQDBVR	296-17572-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.99	.83	.66

(Continued)

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T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TLV431BQDBVR	296-17572-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	1287.00/3,000		
TLV431BQDBZR	296-17573-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.99	.83	.66
TLV431BQDBZR	296-17573-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	1287.00/3,000		
TLV431BQDCKR	296-17796-1-ND	Low Voltage Adj. Shunt Regulator	SC70-6	1.05	.88	.70
TLV431BQDCKR	296-17796-2-ND	Low Voltage Adj. Shunt Regulator	SC70-6	1365.00/3,000		
TLV431BQLPR	296-17811-1-ND	Low Voltage Adj. Shunt Regulator	TO-92	.99	.83	.66
TLV431BQLPR	296-17811-2-ND	Low Voltage Adj. Shunt Regulator	TO-92	878.00/2,000		
TLV431BQPKG3	296-19340-1-ND	Low Voltage Adj. Shunt Regulator ***NEW!***	SOT-89	1.17	.98	.78
TLV431BQPKG3	296-19340-2-ND	Low Voltage Adj. Shunt Regulator ***NEW!***	SOT-89	519.00/1,000		
TLV431CDBVR	296-13616-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.52	.39	.30
TLV431CDBVR	296-13616-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	507.00/3,000		
TLV431CDBZR	296-18914-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.52	.39	.30
TLV431CDBZR	296-18914-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	507.00/3,000		
TLV431CLP	296-10727-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.52	.39	.30
TLV431IDBVR	296-13617-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	.60	.45	.34
TLV431IDBVR	296-13617-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23-5	585.00/3,000		
TLV431IDBZR	296-18915-1-ND	Low Voltage Adj. Shunt Regulator	SOT-23	.60	.45	.34
TLV431IDBZR	296-18915-2-ND	Low Voltage Adj. Shunt Regulator	SOT-23	585.00/3,000		
TLV431ILP	296-10729-5-ND	Low Voltage Adj. Shunt Regulator	TO-92	.60	.45	.34
TLV431QPKG3	296-19341-1-ND	Low Voltage Adj. Shunt Regulator ***NEW!***	SOT-89	.78	.65	.52
TLV431QPKG3	296-19341-2-ND	Low Voltage Adj. Shunt Regulator ***NEW!***	SOT-89	346.00/1,000		
TLVH431ACDBVR	296-17967-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	.68	.51	.39
TLVH431ACDBVR	296-17967-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	663.00/3,000		
TLVH431ACDBZR	296-17968-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.68	.51	.39
TLVH431ACDBZR	296-17968-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	663.00/3,000		
TLVH431ACDCKR	296-18043-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	.76	.57	.43
TLVH431ACDCKR	296-18043-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	741.00/3,000		
TLVH431ACPK	296-18619-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.76	.57	.43
TLVH431ACPK	296-18619-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	253.00/1,000		
TLVH431ACPKG3	296-19342-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.84	.63	.48
TLVH431ACPKG3	296-19342-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	279.00/1,000		
TLVH431AIDBVR	296-17969-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	.76	.57	.43
TLVH431AIDBVR	296-17969-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	741.00/3,000		
TLVH431AIDBZR	296-17970-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.76	.57	.43
TLVH431AIDBZR	296-17970-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	741.00/3,000		
TLVH431AIDCKR	296-18044-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	.84	.63	.48
TLVH431AIDCKR	296-18044-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	819.00/3,000		
TLVH431AIPK	296-18620-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.84	.63	.48
TLVH431AIPK	296-18620-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	279.00/1,000		
TLVH431AIPKG3	296-19343-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.96	.72	.54
TLVH431AIPKG3	296-19343-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	319.00/1,000		
TLVH431AQDBVR	296-17971-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	.78	.65	.52
TLVH431AQDBVR	296-17971-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	1014.00/3,000		
TLVH431AQDBZR	296-17972-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.78	.65	.52
TLVH431AQDBZR	296-17972-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	1014.00/3,000		
TLVH431AQDCKR	296-18045-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	.84	.70	.56
TLVH431AQDCKR	296-18045-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	1092.00/3,000		
TLVH431AQPK	296-18621-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.84	.70	.56
TLVH431AQPK	296-18621-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	372.00/1,000		
TLVH431AQPKG3	296-19344-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.93	.78	.62
TLVH431AQPKG3	296-19344-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	412.00/1,000		
TLVH431BCDBVR	296-17684-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	.92	.69	.52
TLVH431BCDBVR	296-17684-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	897.00/3,000		
TLVH431BCDBZR	296-17685-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.92	.69	.52
TLVH431BCDBZR	296-17685-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	897.00/3,000		
TLVH431BCDCKR	296-17797-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	.75	.63	.50
TLVH431BCDCKR	296-17797-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	975.00/3,000		
TLVH431BCLPR	296-17812-1-ND	Low Voltage, Adj. Precision Shunt Regulator	TO-92	.92	.69	.52
TLVH431BCLPR	296-17812-2-ND	Low Voltage, Adj. Precision Shunt Regulator	TO-92	612.00/2,000		
TLVH431BCPK	296-18622-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.75	.63	.50
TLVH431BCPK	296-18622-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	333.00/1,000		
TLVH431BCPKG3	296-19345-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.84	.70	.56
TLVH431BCPKG3	296-19345-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	372.00/1,000		
TLVH431BIDBVR	296-17686-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	.75	.63	.50
TLVH431BIDBVR	296-17686-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	975.00/3,000		
TLVH431BIDBZR	296-17687-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.75	.63	.50
TLVH431BIDBZR	296-17687-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	975.00/3,000		
TLVH431BIDCKR	296-17798-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	.81	.68	.54
TLVH431BIDCKR	296-17798-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	1053.00/3,000		
TLVH431BILPR	296-17813-1-ND	Low Voltage, Adj. Precision Shunt Regulator	TO-92	.75	.63	.50
TLVH431BILPR	296-17813-2-ND	Low Voltage, Adj. Precision Shunt Regulator	TO-92	666.00/2,000		
TLVH431BIPK	296-18623-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.81	.68	.54
TLVH431BIPK	296-18623-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	359.00/1,000		
TLVH431BIPKG3	296-19346-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.90	.75	.60
TLVH431BIPKG3	296-19346-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	399.00/1,000		
TLVH431BQDBVR	296-17688-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	1.05	.88	.70
TLVH431BQDBVR	296-17688-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	1365.00/3,000		
TLVH431BQDBZR	296-17689-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	1.05	.88	.70
TLVH431BQDBZR	296-17689-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	1365.00/3,000		
TLVH431BQDCKR	296-17799-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	1.11	.93	.74
TLVH431BQDCKR	296-17799-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	1443.00/3,000		
TLVH431BQLPR	296-17814-1-ND	Low Voltage, Adj. Precision Shunt Regulator	TO-92	1.05	.88	.70
TLVH431BQLPR	296-17814-2-ND	Low Voltage, Adj. Precision Shunt Regulator	TO-92	932.00/2,000		
TLVH431BQPK	296-18624-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	1.11	.93	.74
TLVH431BQPK	296-18624-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	492.00/1,000		
TLVH431BQPKG3	296-19347-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	1.23	1.03	.82
TLVH431BQPKG3	296-19347-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	545.00/1,000		
TLVH431CDBVR	296-18046-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	.60	.45	.34
TLVH431CDBVR	296-18046-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	585.00/3,000		
TLVH431CDBZR	296-17973-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.60	.45	.34
TLVH431CDBZR	296-17973-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	585.00/3,000		
TLVH431CDCKR	296-18047-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	.68	.51	.39
TLVH431CDCKR	296-18047-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	663.00/3,000		
TLVH431CPK	296-18625-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.68	.51	.39
TLVH431CPK	296-18625-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	226.00/1,000		
TLVH431CPKG3	296-19348-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.76	.57	.43
TLVH431CPKG3	296-19348-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	253.00/1,000		
TLVH431IDBVR	296-18048-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	.68	.51	.39
TLVH431IDBVR	296-18048-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	663.00/3,000		
TLVH431IDBZR	296-17974-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.68	.51	.39
TLVH431IDBZR	296-17974-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	663.00/3,000		
TLVH431IDCKR	296-18049-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	.76	.57	.43
TLVH431IDCKR	296-18049-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	741.00/3,000		
TLVH431IPK	296-18626-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.76	.57	.43
TLVH431IPK	296-18626-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	253.00/1,000		
TLVH431IPKG3	296-19349-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.84	.63	.48
TLVH431IPKG3	296-19349-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	279.00/1,000		
TLVH431QDBVR	296-18050-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	.92	.69	.52
TLVH431QDBVR	296-18050-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23-5	897.00/3,000		
TLVH431QDBZR	296-17975-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.92	.69	.52
TLVH431QDBZR	296-17975-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	897.00/3,000		
TLVH431QDCKR	296-18051-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	.75	.63	.50

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLVH431QDCKR	296-18051-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SC70-6	975.00/3,000		
TLVH431QPK	296-18627-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.75	.63	.50
TLVH431QPK	296-18627-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	333.00/1,000		
TLVH431QPKG3	296-19350-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.84	.70	.56
TLVH431QPKG3	296-19350-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	372.00/1,000		
TLVH432ACDBZR	296-17976-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.68	.51	.39
TLVH432ACDBZR	296-17976-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	663.00/3,000		
TLVH432ACPK	296-18628-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.76	.57	.43
TLVH432ACPK	296-18628-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	253.00/1,000		
TLVH432ACPKG3	296-19351-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.84	.63	.48
TLVH432ACPKG3	296-19351-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	279.00/1,000		
TLVH432AIDBZR	296-17977-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.76	.57	.43
TLVH432AIDBZR	296-17977-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	741.00/3,000		
TLVH432AIPK	296-18629-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.84	.63	.48
TLVH432AIPK	296-18629-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	279.00/1,000		
TLVH432AIPKG3	296-19352-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.96	.72	.54
TLVH432AIPKG3	296-19352-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	319.00/1,000		
TLVH432AQDBZR	296-17978-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.78	.65	.52
TLVH432AQDBZR	296-17978-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	1014.00/3,000		
TLVH432AQPK	296-18630-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.84	.70	.56
TLVH432AQPK	296-18630-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	372.00/1,000		
TLVH432AQPKG3	296-19353-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.93	.78	.62
TLVH432AQPKG3	296-19353-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	412.00/1,000		
TLVH432BCDBZR	296-17979-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.92	.69	.52
TLVH432BCDBZR	296-17979-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	897.00/3,000		
TLVH432BCPK	296-18631-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.75	.63	.50
TLVH432BCPK	296-18631-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	333.00/1,000		
TLVH432BCPKG3	296-19354-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.84	.70	.56
TLVH432BCPKG3	296-19354-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	372.00/1,000		
TLVH432BIDBZR	296-17980-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.75	.63	.50
TLVH432BIDBZR	296-17980-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	975.00/3,000		
TLVH432BIPK	296-18632-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.81	.68	.54
TLVH432BIPK	296-18632-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	359.00/1,000		
TLVH432BIPKG3	296-19355-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.90	.75	.60
TLVH432BIPKG3	296-19355-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	399.00/1,000		
TLVH432BQDBZR	296-17981-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	1.05	.88	.70
TLVH432BQDBZR	296-17981-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	1365.00/3,000		
TLVH432BQPK	296-18633-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	1.11	.93	.74
TLVH432BQPK	296-18633-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	492.00/1,000		
TLVH432BQPKG3	296-19356-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	1.23	1.03	.82
TLVH432BQPKG3	296-19356-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	545.00/1,000		
TLVH432CDBZR	296-17982-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.60	.45	.34
TLVH432CDBZR	296-17982-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	585.00/3,000		
TLVH432CPK	296-18634-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.68	.51	.39
TLVH432CPK	296-18634-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	226.00/1,000		
TLVH432CPKG3	296-19357-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.76	.57	.43
TLVH432CPKG3	296-19357-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	253.00/1,000		
TLVH432IDBZR	296-17983-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.68	.51	.39
TLVH432IDBZR	296-17983-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	663.00/3,000		
TLVH432IPK	296-18635-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.76	.57	.43
TLVH432IPK	296-18635-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	253.00/1,000		

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TLVH432IPKG3	296-19358-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.84	.63	.48
TLVH432IPKG3	296-19358-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	279.00/1,000		
TLVH432QDBZR	296-17984-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	.92	.69	.52
TLVH432QDBZR	296-17984-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-23	897.00/3,000		
TLVH432QPK	296-18636-1-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	.75	.63	.50
TLVH432QPK	296-18636-2-ND	Low Voltage, Adj. Precision Shunt Regulator	SOT-89	333.00/1,000		
TLVH432QPKG3	296-19359-1-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	.84	.70	.56
TLVH432QPKG3	296-19359-2-ND	Low Voltage, Adj. Precision Shunt Regulator ***NEW!***	SOT-89	372.00/1,000		
UA78L02ACD	296-11116-5-ND	2.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L02ACLP	296-11117-5-ND	2.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L05ACD	296-1364-5-ND	5.0V, 100mA Regulator	8-SOIC	.40	.32	.24
UA78L05ACDR	296-1364-1-ND	5.0V, 100mA Regulator	8-SOIC	.40	.32	.24
UA78L05ACDR	296-1364-2-ND	5.0V, 100mA Regulator	8-SOIC	270.00/2,500		
UA78L05ACLP	296-1365-ND	5.0V, 100mA Regulator	TO-92	.40	.32	.24
UA78L05ACLPR	296-1365-1-ND	5.0V, 100mA Regulator	TO-92	.40	.32	.24
UA78L05ACLPR	296-1365-2-ND	5.0V, 100mA Regulator	TO-92	224.00/2,000		
UA78L05ACPK	296-11118-1-ND	5.0V, 100mA Regulator	SOT-89	.48	.36	.27
UA78L05ACPK	296-11118-2-ND	5.0V, 100mA Regulator	SOT-89	160.00/1,000		
UA78L05AIDR	296-16903-1-ND	5.0V, 100mA Regulator	8-SOIC	.52	.39	.30
UA78L05AIDR	296-16903-2-ND	5.0V, 100mA Regulator	8-SOIC	422.50/2,500		
UA78L05AILP	296-11119-5-ND	5.0V, 100mA Regulator	TO-92	.52	.39	.30
UA78L05AIPK	296-17759-1-ND	5.0V, 100mA Regulator	SOT-89	.52	.39	.30
UA78L05AIPK	296-17759-2-ND	5.0V, 100mA Regulator	SOT-89	173.00/1,000		
UA78L05CD	296-11120-5-ND	5.0V, 100mA Regulator	8-SOP	.46	.37	.26
UA78L05CLP	296-11121-5-ND	5.0V, 100mA Regulator	TO-226AA	.46	.37	.26
UA78L05CPK	296-13531-1-ND	5.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L05CPK	296-13531-2-ND	5.0V, 100mA Regulator	SOT-89	112.00/1,000		
UA78L06ACLP	296-11122-5-ND	6.0V, 100mA Regulator	TO-226AA	.39	.32	.22
UA78L06ACPK	296-15739-1-ND	6.0V, 100mA Regulator	SOT-89	.40	.32	.24
UA78L06ACPK	296-15739-2-ND	6.0V, 100mA Regulator	SOT-89	112.00/1,000		
UA78L08ACD	296-11123-5-ND	8.0V, 100mA Regulator	8-SOP	.46	.37	.26
UA78L08ACLP	296-11124-5-ND	8.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L08ACLPR	296-15052-1-ND	8.0V, 100mA Regulator	TO-226	.40	.32	.24
UA78L08ACLPR	296-15052-2-ND	8.0V, 100mA Regulator	TO-226	224.00/2,000		
UA78L08ACPK	296-11125-1-ND	8.0V, 100mA Regulator	SOT-89	.52	.39	.30
UA78L08ACPK	296-11125-2-ND	8.0V, 100mA Regulator	SOT-89	173.00/1,000		
UA78L09ACD	296-11126-5-ND	9.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L09ACDR	296-15053-1-ND	9.0V, 100mA Regulator	8-SOIC	.40	.32	.24
UA78L09ACDR	296-15053-2-ND	9.0V, 100mA Regulator	8-SOIC	270.00/2,500		
UA78L09ACLP	296-11127-5-ND	9.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L09ACPK	296-14331-1-ND	9.0V, 100mA Regulator	SOT-89	.45	.36	.27
UA78L09ACPK	296-14331-2-ND	9.0V, 100mA Regulator	SOT-89	126.00/1,000		
UA78L10ACD	296-11129-5-ND	10.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L10ACLP	296-1996-ND	10.0V, 100mA Regulator	TO-92	.40	.32	.24
UA78L10ACPK	296-15327-5-ND	10.0V, 100mA Regulator	SOT-89	.45	.36	.27
UA78L12ACD	296-11130-5-ND	12.0V, 100mA Regulator	8-SOP	.40	.32	.24
UA78L12ACDR	296-15054-1-ND	12.0V, 100mA Regulator	8-SOIC	.40	.32	.24
UA78L12ACDR	296-15054-2-ND	12.0V, 100mA Regulator	8-SOIC	270.00/2,500		
UA78L12ACLP	296-11131-5-ND	12.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L12ACPK	296-11132-1-ND	12.0V, 100mA Regulator	SOT-89	.45	.36	.27
UA78L12ACPK	296-11132-2-ND	12.0V, 100mA Regulator	SOT-89	126.00/1,000		
UA78L15ACLP	296-11133-5-ND	15.0V, 100mA Regulator	TO-226AA	.40	.32	.24
UA78L15ACPK	296-12002-1-ND	15.0V, 100mA Regulator	SOT-89	.45	.36	.27
UA78L15ACPK	296-12002-2-ND	15.0V, 100mA Regulator	SOT-89	126.00/1,000		
UA78M05CDCYR	296-12290-1-ND	5.0V, 500mA, Fixed Positive Voltage Regulator	SOT-223	.56	.42	.32
UA78M05CDCYR	296-12290-2-ND	5.0V, 500mA, Fixed Positive Voltage Regulator	SOT-223	455.00/2,500		
UA78M05CKC	296-11134-5-ND	5.0V, 500mA Regulator	TO-220	.75	.63	.50
UA78M05CKCS	296-14000-5-ND	5.0V, 500mA Regulator	TO-220	.60	.45	.34
UA78M05CKTPR	296-11135-1-ND	5.0V, 500mA Regulator	2-PFM	.80	.60	.45
UA78M05CKTPR	296-11135-2-ND	5.0V, 500mA Regulator	2-PFM	780.00/3,000		
UA78M05IDCYR	296-17616-1-ND	5.0V, 500mA Regulator	SOT-223	.84	.63	.48
UA78M05IDCYR	296-17616-2-ND	5.0V, 500mA Regulator	SOT-223	682.50/2,500		
UA78M05IKCS	296-19025-5-ND	5.0V, 500mA Regulator	TO-220	.84	.63	.48
UA78M05IKTPR	296-18192-1-ND	5.0V, 500mA Regulator	3-PFM	.84	.63	.48
UA78M05IKTPR	296-18192-2-ND	5.0V, 500mA Regulator	3-PFM	819.00/3,000		
UA78M05IKTPRG3	296-18672-1-ND	5.0V, 500mA Regulator	TO-252	.84	.63	.48
UA78M05IKTPRG3	296-18672-2-ND	5.0V, 500mA Regulator	TO-252	819.00/3,000		
UA78M05QDCYRQ1	296-17425-1-ND	5.0V, 500mA Regulator	SOT-223	.72	.54	.41
UA78M05QDCYRQ1	296-17425-2-ND	5.0V, 500mA Regulator	SOT-223	585.00/2,500		
UA78M05QKTPRQ1	296-19026-5-ND	5.0V, 500mA Regulator	2-PFM	1.04	.78	.59
UA78M06CKTPR	296-1366-1-ND	6.0V, 500mA Regulator	2-PFM	.80	.60	.45
UA78M06CKTPR	296-1366-2-ND	6.0V, 500mA Regulator	2-PFM	780.00/3,000		
UA78M06CLVURG3	296-19532-1-ND	6.0V, 500mA Regulator ***NEW!***	3-PFM	.64	.48	.36
UA78M06CLVURG3	296-19532-2-ND	6.0V, 500mA Regulator ***NEW!***	3-PFM	520.00/2,500		
UA78M08CDCYR	296-12612-1-ND	8.0V, 500mA Voltage Regulator	SOT-223	.56	.42	.32
UA78M08CDCYR	296-12612-2-ND	8.0V, 500mA Voltage Regulator	SOT-223	455.00/2,500		
UA78M08CKC	296-11136-5-ND	8.0V, 500mA Voltage Regulator	TO-220	.75	.63	.50
UA78M08CKTPR	296-11137-1-ND	8.0V, 500mA Voltage Regulator	2-PFM	.80	.60	.45
UA78M08CKTPR	296-11137-2-ND	8.0V, 500mA Voltage Regulator	2-PFM	780.00/3,000		
UA78M09CKTPR	296-11138-1-ND	9.0V, 500mA Fixed Positive Voltage Regulator	2-PFM	.80	.60	.45
UA78M09CKTPR	296-11138-2-ND	9.0V, 500mA Fixed Positive Voltage Regulator	2-PFM	780.00/3,000		
UA78M09CKVURG3	296-19533-1-ND	9.0V, 500mA Fixed Positive Voltage Regulator ***NEW!***	3-PFM	.64	.48	.36
UA78M09CKVURG3	296-19533-2-ND	9.0V, 500mA Fixed Positive Voltage Regulator ***NEW!***	3-PFM	520.00/2,500		
UA78M10CKTPR	296-11140-1-ND	10.0V, 500mA Fixed Positive Voltage Regulator	2-PFM	.87	.73	.58

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

TEXAS INSTRUMENTS POWER SUPPLY PRODUCTS *(Continued)*

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
UA78M10CKTPR	296-11140-2-ND	10.0V, 500mA Fixed Positive Voltage Regulator	2-PFM	1131.00/3,000		
UA78M10CKVURG3	296-19534-1-ND	10.0V, 500mA Fixed Positive Voltage Regulator ***NEW!***	3-PFM	.64	.48	.36
UA78M10CKVURG3	296-19534-2-ND	10.0V, 500mA Fixed Positive Voltage Regulator ***NEW!***	3-PFM	520.00/2,500		
UA78M12CKC	296-11141-5-ND	12.0V, 500mA Fixed Positive Voltage Regulator	TO-220	.75	.63	.50
UA78M12CKTPR	296-11142-1-ND	12.0V, 500mA Fixed Positive Voltage Regulator	2-PFM	.80	.60	.45
UA78M12CKTPR	296-11142-2-ND	12.0V, 500mA Fixed Positive Voltage Regulator	2-PFM	780.00/3,000		
UA78M33CDCYR	296-13424-1-ND	3.3V, 500mA Fixed Positive Voltage Regulator	SOT-223-4	.56	.42	.32
UA78M33CDCYR	296-13424-2-ND	3.3V, 500mA Fixed Positive Voltage Regulator	SOT-223-4	455.00/2,500		
UA78M33CKC	296-12722-5-ND	3.3V, 500mA Fixed Positive Voltage Regulator	TO-220	.75	.63	.50
UA78M33CKTPR	296-13425-1-ND	3.3V, 500mA Fixed Positive Voltage Regulator	2-PFM	.80	.60	.45
UA78M33CKTPR	296-13425-2-ND	3.3V, 500mA Fixed Positive Voltage Regulator	2-PFM	780.00/3,000		
UA79M05CKC	296-11144-5-ND	5.0V, 500mA Negative Volt. Regulator	TO-220	.75	.63	.50
UA79M05CKCS	296-14001-5-ND	5.0V, 500mA Negative Volt. Regulator	TO-220	.64	.48	.36
UA79M05CKTPR	296-11145-1-ND	5.0V, 500mA Negative Volt. Regulator	2-PFM	.80	.60	.45
UA79M05CKTPR	296-11145-2-ND	5.0V, 500mA Negative Volt. Regulator	2-PFM	780.00/3,000		
UA79M08CKTPR	296-11146-1-ND	8.0V Negative Voltage Regulator	2-PFM	.80	.60	.45
UA79M08CKTPR	296-11146-2-ND	8.0V Negative Voltage Regulator	2-PFM	780.00/3,000		
UA723CD	296-11102-5-ND	Adjustable, Prec. Voltage Regulator	14-SOIC	.76	.57	.43
UA723CDR	296-11102-1-ND	Adjustable, Prec. Voltage Regulator	14-SOIC	.76	.57	.43
UA723CDR	296-11102-2-ND	Adjustable, Prec. Voltage Regulator	14-SOIC	617.50/2,500		
UA723CN	296-11104-5-ND	Adjustable, Prec. Voltage Regulator	14-Dip	.88	.66	.50
UA733CN	296-11105-5-ND	Differential Video Amplifier	14-Dip	.87	.73	.58
UA7805CKC	296-1974-5-ND	5.0V, 1500mA Regulator	TO-220	.81	.68	.54
UA7805CKTER	296-11108-1-ND	5.0V, 1500mA Regulator	3-PFM	.81	.68	.54
UA7805CKTER	296-11108-2-ND	5.0V, 1500mA Regulator	3-PFM	718.00/2,000		
UA7805CKCS	296-13996-5-ND	Positive Voltage Regulator	TO-220	.60	.45	.34
UA7808CKC	296-11109-5-ND	8.0V, 1500mA Regulator	TO-220	.81	.68	.54
UA7808CKCS	296-13997-5-ND	Positive Voltage Regulator	TO-220	.60	.45	.34
UA7808CKTER	296-11110-1-ND	8.0V, 1500mA Regulator	3-PFM	.81	.68	.54
UA7808CKTER	296-11110-2-ND	8.0V, 1500mA Regulator	3-PFM	718.00/2,000		
UA7810CKC	296-1975-5-ND	10.0V, 1500mA Regulator	TO-220	.81	.68	.54
UA7810CKTER	296-17050-1-ND	10.0V, 1500mA Regulator	3-PFM	.81	.68	.54
UA7810CKTER	296-17050-2-ND	10.0V, 1500mA Regulator	3-PFM	718.00/2,000		
UA7812CKC	296-11111-5-ND	12.0V, 1500mA Regulator	TO-220	.81	.68	.54
UA7812CKCS	296-13998-5-ND	Positive Voltage Regulator	TO-220	.60	.45	.34
UA7812CKTER	296-11112-1-ND	12.0V, 1500mA Regulator	3-PFM	.81	.68	.54
UA7812CKTER	296-11112-2-ND	12.0V, 1500mA Regulator	3-PFM	718.00/2,000		
UA7815CKC	296-11113-5-ND	15V, 1500mA Positive Volt. Regulator	TO-220	.81	.68	.54
UA7815CKCS	296-13999-5-ND	Positive Voltage Regulator	TO-220	.60	.45	.34
UA7815CKTER	296-11114-1-ND	15V, 1.5A Positive Voltage Regulator	3-PFM	.81	.68	.54
UA7815CKTER	296-11114-2-ND	15V, 1.5A Positive Voltage Regulator	3-PFM	718.00/2,000		
UA7824CKC	296-11115-5-ND	24V, 1.5A Positive Voltage Regulator	TO-220	.81	.68	.54
UA7905CKTER	296-17834-1-ND	-5V, 1.5A Negative Voltage Regulator	3-PFM	.81	.68	.54
UA7905CKTER	296-17834-2-ND	-5V, 1.5A Negative Voltage Regulator	3-PFM	718.00/2,000		
UA7908CKCS	296-19027-5-ND	-8V Negative Voltage Regulator	TO-220	.72	.54	.41
UA7908CKTER	296-19028-1-ND	-8V Negative Voltage Regulator	3-PFM	1.25	1.00	.75
UA7908CKTER	296-19028-2-ND	-8V Negative Voltage Regulator	3-PFM	1300.00/2,000		
UC2577T-ADJ	296-11159-5-ND	Adj., Simple Step Up Volt. Regulator	TO-220-5	10.83	9.75	8.65
UC29431D	296-11209-5-ND	Precision Adjustable Shunt Regulator	8-SOIC	7.60	6.08	5.13
UC39431D	296-11348-5-ND	Precision Adjustable Shunt Regulator	8-SOIC	5.51	4.41	3.43
UC39431N	296-11349-5-ND	Precision Adjustable Shunt Regulator	8-Dip	5.51	4.41	3.43
UCC561DP	296-12196-5-ND	Low Volt. Diff SCSI 27-Line Reg. Set	16-SOIC	2.57	2.06	1.60

TEXAS INSTRUMENTS PRECISION GROUND REFERENCE

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
TLE2425CD	296-1344-5-ND	2.5V Precision Ground Reference	8-SOIC	1.43	1.14	.86
TLE2425CDR	296-1344-1-ND	2.5V Precision Ground Reference	8-SOIC	1.43	1.14	.86
TLE2425CDR	296-1344-2-ND	2.5V Precision Ground Reference	8-SOIC	1825.00/2,500		
TLE2425CLP	296-1993-ND	2.5V Precision Ground Reference	TO-92	1.43	1.14	.86
TLE2425ID	296-6545-5-ND	2.5V Precision Ground Reference	8-SOIC	1.43	1.14	.86
TLE2425ILP	296-6546-5-ND	2.5V Precision Ground Reference	TO-92	1.43	1.14	.86
TLE2426CD	296-6547-5-ND	1/2 Rail Virtual Ground Reference	8-SOIC	1.30	1.04	.78
TLE2426CLP	296-1994-ND	1/2 Rail Virtual Ground Reference	TO-92	1.30	1.04	.78
TLE2426CLPR	296-1994-1-ND	1/2 Rail Virtual Ground Reference	TO-92	1.30	1.04	.78
TLE2426CLPR	296-1994-2-ND	1/2 Rail Virtual Ground Reference	TO-92	1352.00/2,000		
TLE2426CP	296-6548-5-ND	1/2 Rail Virtual Ground Reference	8-Dip	1.30	1.04	.78
TLE2426ID	296-1345-5-ND	1/2 Rail Virtual Ground Reference	8-SOIC	1.30	1.04	.78
TLE2426IDR	296-1345-1-ND	1/2 Rail Virtual Ground Reference	8-SOIC	1.30	1.04	.78
TLE2426IDR	296-1345-2-ND	1/2 Rail Virtual Ground Reference	8-SOIC	1665.00/2,500		
TLE2426ILP	296-6549-5-ND	1/2 Rail Virtual Ground Reference	TO-92	1.30	1.04	.78
TLE2426IP	296-6550-5-ND	1/2 Rail Virtual Ground Reference	8-Dip	1.30	1.04	.78

TEXAS INSTRUMENTS PROGRAMMABLE GATE ARRAYS

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
TIBPAL16L8-10CFN	296-10082-5-ND	HP Impact-X PAL Circuits	20-PLCC	3.94	3.15	2.45
TIBPAL16L8-10CN	296-10083-5-ND	HP Impact-X PAL Circuits	20-Dip	3.94	3.15	2.45
TIBPAL16L8-25CN	296-10087-5-ND	Low Power, HP Impact PAL Circuits	20-Dip	2.40	1.92	1.44
TIBPAL16R4-15CN	296-10090-5-ND	HP Impact PAL Circuits	20-Dip	2.32	1.86	1.45
TIBPAL16R6-15CN	296-10095-5-ND	HP Impact PAL Circuits	20-Dip	2.35	1.88	1.41
TIBPAL16R8-25CN	296-10098-5-ND	Low Power, HP Impact PAL Circuits	20-Dip	2.40	1.92	1.44
TIBPAL20L8-5CFN	296-10101-5-ND	HP Impact-X PAL Circuits	28-PLCC	16.95	15.82	14.69
TIBPAL20L8-5CNT	296-10102-5-ND	HP Impact-X PAL Circuits	24-Dip	16.95	15.82	14.69
TIBPAL20L8-15CFN	296-10100-5-ND	HP Impact PAL Circuits	28-PLCC	3.74	2.99	2.33
TIBPAL20R4-15CNT	296-10103-5-ND	HP Impact PAL Circuits	24-Dip	3.74	2.99	2.33
TIBPAL20R8-7CFN	296-10114-5-ND	HP Impact-X PAL Circuits	28-PLCC	9.74	7.80	6.58

TEXAS INSTRUMENTS REALTIME CLOCKS

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
BQ48SH-28X6NSH	296-13634-5-ND	SNAPHAT™ w/Integrated Battery/Crystal	—	7.40	5.92	5.00
BQ3285EP	296-2595-5-ND	RealTime Clock	24-Dip	4.73	3.78	2.94
BQ3285ES	296-2596-5-ND	RealTime Clock	24-SOIC	4.73	3.78	2.94
BQ3285ESS	296-2597-5-ND	RealTime Clock	24-SSOP	4.73	3.78	2.94
BQ3285LDSS	296-2599-5-ND	ACPI Compliant RealTime Clock	24-SSOP	4.73	3.78	2.94
BQ3285LFSS-A1	296-6518-5-ND	ACPI Compliant RTC w/(240x8) NVSRAM	24-SOP	4.73	3.78	2.94
BQ3285P-SB2	296-2601-5-ND	RealTime Clock	24-Dip	4.73	3.78	2.94
BQ3285S-SB2	296-6519-5-ND	RTC with (114x8) NVSRAM	24-SOP	4.73	3.78	2.94
BQ3287AMT-SB2	296-6520-5-ND	RTC Module with (114x8) NVSRAM	T-MOD	6.38	5.11	4.31
BQ3287EAMT	296-6521-5-ND	RTC Module with (242x8) NVSRAM/Alarm Wake-up	T-MOD	6.38	5.11	4.31
BQ3287EMT	296-6522-5-ND	RTC Module with (242x8) NVSRAM/Alarm Wake-up	T-MOD	6.38	5.11	4.31
BQ3287MT-I	296-6523-5-ND	RTC Module with (114x8) NVSRAM	T-MOD	6.38	5.11	4.31
BQ3287MT-SB2	296-6524-5-ND	RTC Module with (114x8) NVSRAM	T-MOD	6.38	5.11	4.31
BQ4285EP	296-6525-5-ND	RTC with (114x8) NVSRAM Alarm Wake-up	24-Dip	5.29	4.23	3.29
BQ4285P-SB2	296-6527-5-ND	RTC with (114x8) NVSRAM/NVSRAM Control	24-Dip	5.29	4.23	3.29
BQ4285S-SB2	296-6528-5-ND	RTC with (114x8) NVSRAM/NVSRAM Control	24-SOP	5.29	4.23	3.29
BQ4287MT-SB2	296-6529-5-ND	RTC Module with (114x8) NVSRAM/NVSRAM Control	T-MOD	7.22	5.78	4.88
BQ4802LYDSH	296-15352-5-ND	Parallel 3.3V RTC with CPU Supervisor/ External NVSRAM Control	SNAPHAT*	6.80	5.44	4.59
BQ4802YDSH	296-15353-5-ND	Parallel 5V RTC with CPU Supervisor/ External NVSRAM Control	SNAPHAT*	6.80	5.44	4.59
BQ4802LYDWR	296-6530-1-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control	28-SOIC	5.63	4.50	3.50
BQ4802LYDWR	296-6530-2-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control	28-SOIC	3125.00/1,000		
BQ4802LYPW	296-12757-5-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control	28-TSSOP	5.00	4.00	3.38
BQ4802YDW	296-6531-5-ND	Parallel 5V RTC with CPU Supervisor/ External NVSRAM Control	28-SOIC	5.00	4.00	3.38
BQ4802YPW	296-12758-5-ND	Parallel 3V RTC with CPU Supervisor/ External NVSRAM Control	28-TSSOP	5.00	4.00	3.38
BQ4822YMA-70	296-6532-5-ND	RTC Module with (8Kx8) NVSRAM/Watchdog Timer	A-MOD	13.29	11.97	10.62
BQ4830YMA-85	296-6533-5-ND	RTC Module with (32Kx8) NVSRAM	A-MOD	14.69	13.23	11.74
BQ4832YMA-85	296-6534-5-ND	RTC Module with (32Kx8) NVSRAM/Watchdog Timer	A-MOD	15.75	14.70	13.65
BQ4842YMA-85	296-6535-5-ND	RTC Module with (128Kx8) NVSRAM/Watchdog Timer	A-MOD	18.27	17.06	15.84
BQ4845P-A4	296-6536-5-ND	RTC w/NVSRAM Control/ Watchdog Timer	28-Dip	5.00	4.00	3.38
BQ4845S-A4	296-6537-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOIC	5.00	4.00	3.38
BQ4845S-A4N	296-6538-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOIC	5.00	4.00	3.38
BQ4845YS-A4	296-6539-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOIC	5.00	4.00	3.38
BQ4845YS-A4N	296-6540-5-ND	RTC with NVSRAM Control/ Watchdog Timer	28-SOIC	5.00	4.00	3.38
BQ4847MT	296-6541-5-ND	RTC with NVSRAM Control/ Watchdog Timer	T-MOD	8.32	6.66	5.62
BQ4847YMT	296-6542-5-ND	RTC with NVSRAM Control/ Watchdog Timer	T-MOD	8.32	6.66	5.62
BQ4850YMA-85	296-6543-5-ND	RTC Module with (512Kx8) NVSRAM	A-MOD	35.63	33.25	30.88
BQ4852YMC-85	296-6544-5-ND	RTC Module with (512Kx8) NVSRAM/Watchdog Timer	C-MOD	36.54	34.11	31.67

*SNAPHAT requires the BQ48SH-28x6 to complete the two piece module.

TEXAS INSTRUMENTS SIGNAL CONTROLLERS

T. I.	Digi-Key			Price Each★		
Part No.	**Part No.**	**Description**	**Pkg.**	**1**	**25**	**100**
		Audio Processors / CODECs				
AIC111EVM	296-18386-ND	Evaluation Module for AIC111	—	62.78	—	—
AIC111RHB	296-15335-ND	1.3V MicroPower DSP Voice Band Audio Codec	32-QFN	8.30	6.64	5.61
AICDEVPLATEVM	296-18387-ND	Development Platform for DSP-Codec	—	62.78	—	—
SRC4184IPAG	296-17309-ND	4-Channel Async. Sample Rate Converter	64-TQFP	14.16	12.75	11.31
SRC4190IDB	296-15337-5-ND	192KHz Stereo Async. Sample Rate Converter	28-SSOP	8.56	6.85	5.78
SRC4192EVM	296-18834-ND	Evaluation Module for SRC4192	—	254.96	—	—
SRC4192IDB	296-15234-5-ND	192KHz Stereo Async. Sample Rate Converter	28-SSOP	13.46	12.12	10.75
SRC4193IDB	296-15235-5-ND	192KHz Stereo Async. Sample Rate Converter	28-SSOP	13.46	12.12	10.75
SRC4194EVM	296-17284-ND	Evaluation Module for SRC4194	—	254.96	—	—
SRC4194IPAG	296-17310-ND	4-Channel Async. Sample Rate Converter	64-TQFP	22.43	20.93	19.44
TAS1020BPFB	296-13041-5-ND	Stereo USB Audio Interface	48-TQFP	6.08	4.87	4.11
TAS3001CPW	296-2208-5-ND	Stereo Digital Equalizer	28-TSSOP	4.12	3.30	2.57
TAS3002PFB	296-9977-ND	Digital Audio Processor with CODEC	48-TQFP	7.10	5.68	4.80
TAS3004PFB	296-9978-ND	Digital Audio Processor with CODEC	48-TQFP	7.70	6.16	5.20
TAS3103ADBT	296-19553-5-ND	48-Bit Digital Audio Processor ***NEW!***	38-TSSOP	8.30	6.64	5.61
TAS3103DBT	296-13820-5-ND	48-Bit Digital Audio Processor	38-TSSOP	8.30	6.64	5.61
TAS5001IPFB	296-12556-ND	Digital Audio PWM Processor	48-TQFP	5.30	4.24	3.58
TAS5001PFB	296-12212-ND	Digital Audio PWM Processor	48-TQFP	5.40	4.32	3.36
TAS5010IPFB	296-12557-ND	Digital Audio PWM Processor	48-TQFP	6.70	5.36	4.53
TAS5010PFB	296-12213-ND	Digital Audio PWM Processor	48-TQFP	6.00	4.80	4.05
TAS5012IPFB	296-12558-ND	Digital Audio PWM Processor	48-TQFP	10.33	9.30	8.25
TAS5012PFB	296-12214-ND	Digital Audio PWM Processor	48-TQFP	9.25	8.33	7.39
TAS5026APAG	296-14401-ND	Digital Audio PWM Processor	64-TQFP	9.63	8.67	7.69
TAS5028PAG	296-17116-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	9.80	7.84	6.62
TAS5036APFC	296-13856-ND	6-Ch. Digital Audio PWM Processor	80-TQFP	19.58	18.27	16.97

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Texas Instruments SIGNAL CONTROLLERS *(Continued)*

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TAS5036BPFC	296-14976-ND	6-Ch. Digital Audio PWM Processor	80-TQFP	15.69	14.65	13.60
TAS5066PAG	296-16772-ND	24-Bit, 6-Channel Digital PWM	64-TQFP	9.63	8.67	7.69
TAS5076PFC	296-16643-ND	24-Bit, 6-Channel Digital PWM	80-TQFP	18.56	17.32	16.09
TAS5086DBT	296-17808-1-ND	Audio 6-Channel PWM Processor	38-TSSOP	3.60	2.88	—
TAS5086DBT	296-17808-2-ND	Audio 6-Channel PWM Processor	38-TSSOP	112.00/50		
TAS5504APAG	296-19509-ND	4-Channel Digital Audio PWM Processor ***NEW!***	64-TQFP	7.00	5.60	4.73
TAS5504PAG	296-18034-ND	4-Ch. Digital Audio PWM Processor	64-TQFP	7.00	5.60	4.73
TAS5508APAG	296-17475-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	10.00	7.50	6.65
TAS5508BPAG	296-19417-ND	8-Channel Digital Audio PWM Processor ***NEW!***	64-TQFP	8.33	7.50	6.65
TAS5508PAG	296-17020-ND	8-Ch. Digital Audio PWM Processor	64-TQFP	10.55	9.50	8.42
TAS5518PAG	296-17249-ND	8-Ch. Digital Pulse Width Modulator	64-TQFP	13.24	11.93	10.58
TLC320AC01CPMR	296-1982-1-ND	14-Bit AIC Audio CODEC	64-LQFP	7.02	5.62	4.74
TLC320AC01CPMR	296-1982-2-ND	14-Bit AIC Audio CODEC	64-LQFP	4388.00/1,000		
TLC320AD77CDB	296-2210-5-ND	24-Bit, Stereo CODEC	28-SSOP	6.30	5.04	4.26
TLC320AD545IPT	296-10276-ND	Single Channel CODEC with Hybrid Op Amps	48-LQFP	6.20	4.96	4.19
TLC320AD545PT	296-10277-ND	Single Channel CODEC with Hybrid Op Amps	48-LQFP	6.20	4.96	4.19
TLV320AIC12KIDBT	296-19421-5-ND	16-Bit, 26KSPS Mono Codec ***NEW!***	30-TSSOP	4.05	3.24	2.52
TLV320AIC20KIPFB	296-17965-ND	16-Bit, 26KSPS, Low Power, Highly Integrated, Prog., Dual-Ch. CODEC	48-TQFP	5.00	4.00	3.38
TLV320AIC23BGQE	296-13992-5-ND	24-Bit Stereo CODEC for Portable Audio	80-VFBGA	6.30	5.04	4.26
TLV320AIC23BIGQE	296-15030-ND	24-Bit Stereo CODEC for Portable Audio	80-VFBGA	7.00	5.60	4.73
TLV320AIC23BIPWR	296-15031-1-ND	Stereo Audio Codec	28-TSSOP	6.70	5.36	4.53
TLV320AIC23BIPWR	296-15031-2-ND	Stereo Audio Codec	28-TSSOP	8376.00/2,000		
TLV320AIC23BIZQE	296-15342-ND	24-Bit Stereo CODEC for Portable Audio	80-VFBGA	6.70	5.36	4.53
TLV320AIC23BPW	296-15635-5-ND	8-96kHz, Stereo Audio CODEC	28-TSSOP	6.00	4.80	4.05
TLV320AIC23GQE	296-12026-5-ND	24-Bit Stereo CODEC for Portable Audio	80-VFBGA	6.30	5.04	4.26
TLV320AIC24KIPFB	296-17966-ND	16-Bit, 26KSPS, Low Power, Highly Integrated, Prog., Dual-Ch. CODEC	48-TQFP	5.18	4.14	3.22
TLV320AIC26EVM	296-16986-ND	Audio Codec Evaluation Module	—	126.84	—	—
TLV320AIC28EVM	296-16857-ND	Audio Codec Evaluation Module	—	126.84	—	—
TLV320AIC28IRGZ	296-16847-5-ND	Stereo Audio Codec	48-QFN	7.90	6.32	5.34
TLV320AIC29IRGZT	296-19439-1-ND	Stereo Audio Codec ***NEW!***	48-QFN	7.60	6.08	5.13
TLV320AIC29IRGZT	296-19439-2-ND	Stereo Audio Codec ***NEW!***	48-QFN	1235.00/250		
TLV320AIC31EVM	296-19475-ND	Evaluation Module for TLV320AIC31 ***NEW!***	—	62.78	—	—
TLV320AIC31EVM-PDK	296-19476-ND	Eval Kit/Demo for TLV320AIC31 ***NEW!***	—	190.89	—	—
TLV320AIC31IRHBT	296-19422-1-ND	LP Stereo Audio Codec ***NEW!***	32-QFN	7.60	6.08	5.13
TLV320AIC31IRHBT	296-19422-2-ND	LP Stereo Audio Codec ***NEW!***	32-QFN	1235.00/250		
TLV320AIC32IRHB	296-19336-ND	LP Stereo Audio Codec ***NEW!***	32-QFN	6.90	5.52	4.66
TLV320AIC33IGQE	296-19440-ND	LP Stereo Audio Codec ***NEW!***	80-VFBGA	7.90	6.32	5.34
TLV320AIC33IZQER	296-19598-1-ND	LP Stereo Audio Codec ***NEW!***	80-BGA	7.90	6.32	5.34
TLV320AIC33IZQER	296-19598-2-ND	LP Stereo Audio Codec ***NEW!***	80-BGA	12245.00/2,500		
TLV320AIC1103PBS	296-13001-1-ND	Programmable PCM Codec with Microphone Amps and Speaker Driver	32-TQFP	5.60	4.48	3.78
TLV320AIC1103PBSR	296-12748-1-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	32-TQFP	5.60	4.48	3.78
TLV320AIC1106PW	296-15634-5-ND	PCM Codec	20-TSSOP	5.40	4.32	3.65
TLV320AIC1107PWR	296-12709-1-ND	Programmable PCM CODEC with Microphone Amps and Speaker Driver	20-TSSOP	5.40	4.32	3.65
TLV320DAC23GQE	296-12027-5-ND	8-96KHz Stereo Audio DAC	80-VFBGA	4.84	3.87	3.01
TLV320DAC23RHDR	296-15636-1-ND	8-96KHz Stereo Audio DAC	28-PQFP	4.50	3.60	2.80
TLV320DAC23RHDR	296-15636-2-ND	8-96KHz Stereo Audio DAC	28-PQFP	7800.00/3,000		
TLV320DAC26EVM	296-17267-ND	Evaluation Module for TLV320DAC26	—	126.84	—	—
TLV320DAC26IRHB	296-17402-ND	Low Power Stereo Audio DAC	32-QFN	5.90	4.72	3.99
TWL1102PBS	296-13005-5-ND	Voice Band Audio Processor	32-TQFP	5.96	4.77	4.03
TWL1103GQER	296-11095-1-ND	Voice Band Audio Processor	80-VFBGA	6.50	5.20	4.39
TWL1103GQER	296-11095-2-ND	Voice Band Audio Processor	80-VFBGA	10075.00/2,500		
TWL1103TPBSQ1	296-12962-1-ND	Voice Band Audio Processor	32-TQFP	6.72	5.38	4.54
TWL1103TPBSQ1	296-12962-2-ND	Voice Band Audio Processor	32-TQFP	1092.00/250		
TWL1103TPBSRQ1	296-16969-1-ND	Voice Band Audio Processor	32-TQFP	6.76	5.41	4.57
TWL1103TPBSRQ1	296-16969-2-ND	Voice Band Audio Processor	32-TQFP	4225.00/1,000		

Texas Instruments TEMPERATURE SENSORS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
TMP75AIDGKT	296-18637-1-ND	Digital Temperature Sensor with Two-Wire Interface	8-MSOP	2.00	1.60	1.20
TMP75AIDGKT	296-18637-2-ND	Digital Temperature Sensor with Two-Wire Interface	8-MSOP	280.00/250		
TMP75AIDR	296-17838-1-ND	Digital Temperature Sensor with Two-Wire Interface	8-SOIC	1.75	1.40	1.05
TMP75AIDR	296-17838-2-ND	Digital Temperature Sensor with Two-Wire Interface	8-SOIC	2240.00/2,500		
TMP100MDBVREP	296-19524-1-ND	Digital Temperature Sensor ***NEW!***	SOT-23-6	5.06	4.05	3.15
TMP100MDBVREP	296-19524-2-ND	Digital Temperature Sensor ***NEW!***	SOT-23-6	8505.00/3,000		
TMP100NA/250	296-12749-1-ND	Digital Temperature Sensor	SOT-23-6	2.13	1.70	1.28
TMP100NA/250	296-12749-2-ND	Digital Temperature Sensor	SOT-23-6	297.50/250		
TMP101NA/250	296-12750-1-ND	Digital Temperature Sensor w/Alert	SOT-23-6	2.25	1.80	1.35
TMP101NA/250	296-12750-2-ND	Digital Temperature Sensor w/Alert	SOT-23-6	315.00/250		
TMP121AIDBVT	296-15177-1-ND	Digital Temperature Sensor	SOT-23-6	2.48	1.98	1.49
TMP121AIDBVT	296-15177-2-ND	Digital Temperature Sensor	SOT-23-6	346.50/250		
TMP122AIDBVT	296-15178-1-ND	Prog. Digital Temperature Sensor	SOT-23-6	2.48	1.98	1.54
TMP122AIDBVT	296-15178-2-ND	Prog. Digital Temperature Sensor	SOT-23-6	365.75/250		
TMP123AIDBVT	296-15832-1-ND	Digital Temperature Sensor with SPI	SOT-23-6	2.48	1.98	1.49
TMP123AIDBVT	296-15832-2-ND	Digital Temperature Sensor with SPI	SOT-23-6	346.50/250		
TMP124AID	296-16977-ND	Digital Temperature Sensor with SPI	8-SOIC	1.75	1.40	1.05
TMP125AIDBVT	296-17690-1-ND	Digital Temperature Sensor w/SPI	SOT-23-6	2.25	1.80	1.35
TMP125AIDBVT	296-17690-2-ND	Digital Temperature Sensor w/SPI	SOT-23-6	315.00/250		
TMP141AIDBVT	296-17922-1-ND	Digital Out Temperature Sensor	SOT-23-6	1.88	1.50	1.13
TMP141AIDBVT	296-17922-2-ND	Digital Out Temperature Sensor	SOT-23-6	262.50/250		
TMP141AIDGKT	296-17923-1-ND	Digital Out Temperature Sensor	8-MSOP	1.88	1.50	1.13
TMP141AIDGKT	296-17923-2-ND	Digital Out Temperature Sensor	8-MSOP	262.50/250		
TMP175AIDR	296-17837-1-ND	Digital Temperature Sensor with Two-Wire Interface	8-SOIC	2.13	1.70	1.28
TMP175AIDR	296-17837-2-ND	Digital Temperature Sensor with Two-Wire Interface	8-SOIC	2720.00/2,500		

Texas Instruments TIMERS

T. I. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
NE555D	296-16792-ND	Precision Timer	8-SOIC	.45	.36	.27
NE555DR	296-6501-1-ND	Precision Timer	8-SOIC	.45	.36	.27
NE555DR	296-6501-2-ND	Precision Timer	8-SOIC	305.00/2,500		
NE555P	296-1411-5-ND	Precision Timer	8-Dip	.45	.36	.27
NE555PSR	296-6502-1-ND	Precision Timer	8-SOP	.45	.36	.27
NE555PSR	296-6502-2-ND	Precision Timer	8-SOP	252.00/2,000		
NE555PW	296-15086-5-ND	Precision Timer	8-TSSOP	.45	.36	.27
NE556D	296-6503-5-ND	Dual Precision Timer	14-SOIC	.50	.40	.30
NE556N	296-6504-5-ND	Dual Precision Timer	14-Dip	.48	.36	.27
NE556NSR	296-13104-1-ND	Dual Precision Timer	14-SOP	.50	.40	.30
NE556NSR	296-13104-2-ND	Dual Precision Timer	14-SOP	280.00/2,000		
SA555D	296-9681-5-ND	Precision Timer	8-SOIC	.48	.36	.27
SA555DR	296-14635-1-ND	Precision Timer	8-SOIC	.48	.36	.27
SA555DR	296-14635-2-ND	Precision Timer	8-SOIC	390.00/2,500		
SA555P	296-9682-5-ND	Precision Timer	8-Dip	.48	.36	.27
SE555D	296-9683-5-ND	Precision Timer	8-SOIC	.84	.70	.56
SE555P	296-9684-5-ND	Precision Timer	8-Dip	.84	.70	.56
TLC551CD	296-11822-5-ND	CMOS Timer	8-SOIC	1.11	.93	.74
TLC551CP	296-10333-5-ND	CMOS Timer	8-Dip	1.11	.93	.74
TLC552CD	296-10334-5-ND	CMOS Timer	14-SOIC	1.48	1.18	.89
TLC552CN	296-10335-5-ND	CMOS Timer	14-Dip	1.48	1.18	.89
TLC555CD	296-1336-5-ND	CMOS Timer	8-SOIC	.88	.66	.50
TLC555CDR	296-1336-1-ND	CMOS Timer	8-SOIC	.88	.66	.50
TLC555CDR	296-1336-2-ND	CMOS Timer	8-SOIC	715.00/2,500		
TLC555CP	296-1857-5-ND	CMOS Timer	8-Dip	.88	.66	.50
TLC555CPWR	296-10339-1-ND	CMOS Timer	14-TSSOP	.88	.66	.50
TLC555CPWR	296-10339-2-ND	CMOS Timer	14-TSSOP	586.00/2,000		
TLC555ID	296-1337-5-ND	CMOS Timer	8-SOIC	.96	.72	.54
TLC555IDR	296-1337-1-ND	CMOS Timer	8-SOIC	.72	.60	.48
TLC555IDR	296-1337-2-ND	CMOS Timer	8-SOIC	780.00/2,500		
TLC555IP	296-1858-5-ND	CMOS Timer	8-Dip	.96	.72	.54
TLC555QDR	296-10341-1-ND	CMOS Timer	8-SOIC	.75	.63	.50
TLC555QDR	296-10341-2-ND	CMOS Timer	8-SOIC	812.50/2,500		
TLC556CD	296-1338-5-ND	Dual CMOS Timer	14-SOIC	1.02	.85	.68
TLC556CDR	296-1338-1-ND	Dual CMOS Timer	14-SOIC	1.02	.85	.68
TLC556CDR	296-1338-2-ND	Dual CMOS Timer	14-SOIC	1105.00/2,500		
TLC556CN	296-1859-5-ND	Dual CMOS Timer	14-Dip	1.02	.85	.68
TLC556ID	296-10343-5-ND	Dual CMOS Timer	14-SOIC	1.14	.95	.76
TLC556IN	296-10344-5-ND	Dual CMOS Timer	14-Dip	1.14	.95	.76
TLC556MD	296-10345-5-ND	Dual CMOS Timer	14-SOIC	1.38	1.15	.92

MICREL 10/100 ETHERNET

Innovation Through Technology™

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
KS8695P	576-1001-ND	Multi-Port PCI Gateway-on-a-Chip	289-PBGA	23.24	21.69	20.14
KS8695P-MMB-EVAL	576-1003-ND	Board Eval Multimedia KS8695P⋆	—	2850.00	—	—
KS8695PX-EVAL	576-1004-ND	Board Eval Experiment KS8695PS⋆	—	525.00	—	—
KS8695X-EVAL	576-1005-ND	Board Eval Experiment KS8695X⋆	—	450.00	—	—
KS8721B-EVAL	576-1006-ND	Board Eval Experiment KS8721B⋆	—	112.50	—	—
KS8721BL-EVAL	576-1007-ND	Board Eval Experiment KS8721BL⋆	—	148.50	—	—
KS8721BMC-EVAL	576-1008-ND	Board Eval Experiment KS8721BMC⋆	—	298.50	—	—
KS8721BT-EVAL	576-1009-ND	Board Eval Experiment KS8721BT⋆	—	148.50	—	—
KS8721SL-EVAL	576-1010-ND	Board Eval Experiment KS8721SL⋆	—	148.50	—	—
KS8993-EVAL	576-1011-ND	Board Eval Experiment for KS8993⋆	—	205.50	—	—
KS8993FL-EVAL	576-1012-ND	Board Eval Experiment KS8993F⋆	—	525.00	—	—
KS8993M-EVAL	576-1013-ND	Board Eval Experiment KS8993M⋆	—	525.00	—	—
KS8993MI	576-1014-ND	Integrated 3-Port 10/100 Managed Switch	128-PQFP	13.23	11.91	10.57
KS8993ML	576-1015-ND	Integrated 3-Port 10/100 Managed Switch	128-PQFP	10.75	9.68	8.58
KS8993ML-EVAL	576-1016-ND	Board Eval for KS8993ML⋆	—	525.00	—	—
KS8995M-EVAL	576-1017-ND	Board Eval Experiment KS8995M⋆	—	282.00	—	—
KS8995MA-EVAL	576-1018-ND	Board Eval Experiment KS8995MA⋆	—	282.00	—	—
KS8995MI	576-1020-ND	Integrated 5-Port 10/100 Managed Switch	128-PQFP	15.14	13.64	12.09
KS8995X-EVAL	576-1021-ND	Board Eval Experiment KS8995X⋆	—	282.00	—	—
KS8997-EVAL	576-1022-ND	Board Eval Experiment for KS8997⋆	—	315.00	—	—
KS8999-EVAL	576-1023-ND	Board Eval Experiment for KS8999⋆	—	375.00	—	—
KSZ8695PX	576-1024-ND	Integrated Multi-Port PCI Gateway Solution⋆	289-PBGA	18.47	17.24	16.01
KSZ8721B TR	576-1026-1-ND	Low Power 10/100 PHY Transceiver⋆	48-SSOP	3.78	3.03	2.36
KSZ8721B TR	576-1026-2-ND	Low Power 10/100 PHY Transceiver⋆	48-SSOP	2142.00/1,000		
KSZ8721BI	576-1027-ND	Low Power 10/100 PHY Transceiver⋆	48-SSOP	5.15	4.13	3.21
KSZ8721BL TR	576-1028-1-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver⋆	48-LQFP	3.98	3.19	2.48
KSZ8721BL TR	576-1028-2-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver⋆	48-LQFP	2257.00/1,000		
KSZ8721BLI	576-1029-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver⋆	48-LQFP	5.40	4.32	3.36
KSZ8721BT	576-1030-ND	2.5V, 10/100BASE-TX/FX MII Physical Layer Transceiver⋆	48-TQFP	3.89	3.12	2.43
KSZ8721SL TR	576-1031-1-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver⋆	48-SSOP	3.98	3.19	2.48
KSZ8721SL TR	576-1031-2-ND	3.3V Single Power Supply 10/100BASE-TX/FX MII Physical Layer Transceiver⋆	48-SSOP	2257.00/1,000		
KSZ8842-16MQL	576-1478-5-ND	16-Bit, 2-Port Ethernet Switch ***NEW!***	128-PQFP	14.31	12.89	11.43
KSZ8842-32MQL	576-1479-5-ND	32-Bit, 2-Port Ethernet Switch ***NEW!***	128-PQFP	15.06	13.56	12.03
KSZ8893MQL	576-1477-5-ND	Integrated 3-Port 10/100 Managed Switch with PHYs ***NEW!***	128-PQFP	12.30	11.07	9.82
KSZ8993	576-1032-ND	3-Port 10/100 Integrated Switch⋆	128-PQFP	11.31	10.19	9.04

⋆ ***RoHS Compliant***

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10/100 ETHERNET *(Continued)*

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
KSZ8993F	576-1033-ND	Single Chip Fast Ethernet Media Converter*	128-PQFP	15.51	14.48	13.45
KSZ8993F-A1	576-1034-ND	Single Chip Fast Ethernet Media Converter*	128-PQFP	15.51	14.48	13.45
KSZ8993FL	576-1035-ND	Single Chip Fast Ethernet Media Converter*	128-PQFP	16.53	15.43	14.33
KSZ8993I	576-1036-ND	3-Port 10/100 Integrated Switch*	128-PQFP	16.13	15.05	13.98
KSZ8993M	576-1037-ND	Integrated 3-Port 10/100 Managed Switch*	128-PQFP	9.93	8.94	7.93
KSZ8995M	576-1038-ND	Integrated 5-Port 10/100 Managed Switch*	128-PQFP	10.50	9.45	8.38
KSZ8995MA	576-1039-ND	Integrated 5-Port 10/100 Managed Switch*	128-PQFP	10.30	9.27	8.22
KSZ8995MAL	576-1040-ND	Integrated 5-Port 10/100 Managed Switch*	128-PQFP	11.65	10.49	9.30
KSZ8995X	576-1041-ND	Integrated 5-Port 10/100 QoS Switch*	128-PQFP	9.18	7.35	6.20
KSZ8995XA	576-1042-ND	Integrated 5-Port 10/100 QoS Switch*	128-PQFP	9.14	7.32	6.17
KSZ8997	576-1043-ND	Integrated 8-Port 10/100 Switch*	128-PQFP	17.51	16.34	15.18
KSZ8999	576-1044-ND	Integrated 9-Port 10/100 Switch*	208-PQFP	18.51	17.28	16.05
MIC2981/82YN	576-1158-ND	High Voltage High Current Source Driver Array*	18-Dip	2.27	1.82	1.42
MIC2981/82YWM	576-1159-ND	High Voltage High Current Source Driver Array*	18-SOIC	2.27	1.82	1.42

* ***RoHS Compliant***

BATTERY CHARGERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC79110YML TR	576-1320-1-ND	1.2A Linear Li-Ion Battery Charger	10-MLF	3.20	2.56	1.99
MIC79110YML TR	576-1320-2-ND	1.2A Linear Li-Ion Battery Charger	10-MLF	8875.00/5,000		

COMPARATORS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC6270YM5 TR	576-1315-1-ND	IttyBitty™ Comparator	SOT-23-5	.80	.60	.45
MIC6270YM5 TR	576-1315-2-ND	IttyBitty™ Comparator	SOT-23-5	780.00/3,000		
MIC7211YM5 TR	576-1318-1-ND	IttyBitty™ R/R Input Comparator	SOT-23-5	.75	.63	.50
MIC7211YM5 TR	576-1318-2-ND	IttyBitty™ R/R Input Comparator	SOT-23-5	975.00/3,000		

DISPLAY DRIVERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2291YD5 TR	576-1077-1-ND	1.2A PWM Boost Regulator Photo Flash LED Driver	5-TSOT	1.73	1.38	1.04
MIC2291YD5 TR	576-1077-2-ND	1.2A PWM Boost Regulator Photo Flash LED Driver	5-TSOT	2649.00/3,000		
MIC2292-15YML TR	576-1078-1-ND	High-Frequency PWM White LED Driver	8-MLF	1.85	1.48	1.11
MIC2292-15YML TR	576-1078-2-ND	High-Frequency PWM White LED Driver	8-MLF	4625.00/5,000		
MIC2293-15YML TR	576-1079-1-ND	High-Frequency PWM White LED Driver	8-MLF	1.95	1.56	1.17
MIC2293-15YML TR	576-1079-2-ND	High-Frequency PWM White LED Driver	8-MLF	4875.00/5,000		
MIC2297-42YML TR	576-1440-1-ND	40V PWM Boost Reg. White LED Driver ***NEW!***	10-MLF	1.98	1.58	1.19
MIC2297-42YML TR	576-1440-2-ND	40V PWM Boost Reg. White LED Driver ***NEW!***	10-MLF	1027.00/1,000		
MIC3287-24YMLTR	576-1464-1-ND	1.2MHz PWM White LED Driver ***NEW!***	8-MLF	1.33	1.06	.80
MIC3287-24YMLTR	576-1464-2-ND	1.2MHz PWM White LED Driver ***NEW!***	8-MLF	6500.00/10,000		
MIC4826YMM TR	576-1226-1-ND	Low Input Voltage, 160Vpp Output Voltage, EL Driver	8-MSOP	1.90	1.52	1.14
MIC4826YMM TR	576-1226-2-ND	Low Input Voltage, 160Vpp Output Voltage, EL Driver	8-MSOP	2432.50/2,500		
MIC5400YWM TR	576-1300-1-ND	Dual 8-Output, 14-Bit LED Video Display Driver	28-SOIC	3.38	2.70	2.10
MIC5400YWM TR	576-1300-2-ND	Dual 8-Output, 14-Bit LED Video Display Driver	28-SOIC	1913.00/1,000		
MM5450YN	576-1341-ND	LED Display Driver	40-Dip	3.98	3.19	2.48
MM5450YV TR	576-1342-1-ND	LED Display Driver	44-PLCC	3.98	3.19	2.48
MM5450YV TR	576-1342-2-ND	LED Display Driver	44-PLCC	1150.50/500		
MM5451YN	576-1343-ND	LED Display Driver	40-Dip	3.87	3.10	2.41
MM5451YV TR	576-1344-1-ND	LED Display Driver	44-PLCC	3.87	3.10	2.41
MM5451YV TR	576-1344-2-ND	LED Display Driver	44-PLCC	1118.00/500		

FAN MANAGEMENT ICs

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC502YM	576-1241-ND	Fan Management IC	8-SOIC	1.95	1.56	1.17
MIC502YN	576-1242-ND	Fan Management IC	8-Dip	2.33	1.86	1.40

HIGH-SIDE LOAD SWITCHES

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC94031YM4 TR	576-1327-1-ND	TinyFET™ P-Channel MOSFET	SOT-143	1.17	.98	.78
MIC94031YM4 TR	576-1327-2-ND	TinyFET™ P-Channel MOSFET	SOT-143	1521.00/3,000		
MIC94062YC6 TR	576-1328-1-ND	Soft Start High-Side Power Switch	SC70-6	1.26	1.05	.84
MIC94062YC6 TR	576-1328-2-ND	Soft Start High-Side Power Switch	SC70-6	1638.00/3,000		
MIC94063YC6 TR	576-1329-1-ND	Soft Start High-Side Power Switch	SC70-6	1.35	1.13	.90
MIC94063YC6 TR	576-1329-2-ND	Soft Start High-Side Power Switch	SC70-6	1755.00/3,000		

HOT-SWAP POWER CONTROLLERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2580A-1.0YTS	576-1092-ND	Hot-Swap PCI Power Controller	24-TSSOP	6.50	5.20	4.39
MIC2582-JYM TR	576-1093-1-ND	Single-Channel Hot Swap Controller	8-SOIC	4.68	3.75	2.92
MIC2582-JYM TR	576-1093-2-ND	Single-Channel Hot Swap Controller	8-SOIC	6552.50/2,500		
MIC2586-2YM	576-1094-ND	Single-Channel, Positive High Voltage Hot Swap Controller/Sequencer	14-SOIC	6.34	5.08	4.28
MIC2586R-1YM	576-1095-ND	Single-Channel, Positive High Voltage Hot Swap Controller/Sequencer	14-SOIC	6.34	5.08	4.28
MIC2587-1YM	576-1096-ND	Single-Channel, Positive High Voltage Hot Swap Controller	8-SOIC	5.42	4.34	3.38
MIC2587R-1YM	576-1097-ND	Single-Channel, Positive High Voltage Hot Swap Controller	8-SOIC	5.42	4.34	3.38
MIC2588-1YMTR	576-1481-1-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	8-SOIC	3.44	2.76	2.33
MIC2588-1YMTR	576-1481-2-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	8-SOIC	5332.50/2,500		
MIC2588-2YMTR	576-1482-1-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	8-SOIC	3.44	2.76	2.33
MIC2588-2YMTR	576-1482-2-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	8-SOIC	5332.50/2,500		
MIC2589-1YMTR	576-1483-1-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	6.34	5.08	4.28
MIC2589-1YMTR	576-1483-2-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	9827.50/2,500		
MIC2589-2YMTR	576-1484-1-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	6.34	5.08	4.28
MIC2589-2YMTR	576-1484-2-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	9827.50/2,500		
MIC2589R-1YMTR	576-1485-1-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	6.34	5.08	4.28
MIC2589R-1YMTR	576-1485-2-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	9827.50/2,500		
MIC2589R-2YMTR	576-1486-1-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	6.34	5.08	4.28
MIC2589R-2YMTR	576-1486-2-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	9827.50/2,500		
MIC2591B-2YTQ	576-1098-ND	Dual-Slot PCI Express Hot-Plug Controller	48-TQFP	17.52	16.36	15.19
MIC2592B-2YTQ	576-1099-ND	Dual-Slot PCI Express Hot-Plug Controller	48-TQFP	16.16	15.08	14.01
MIC2593-2YTQ	576-1100-ND	Dual-Slot PCI Hot-Plug Controller	48-TQFP	13.28	11.96	10.61
MIC2594-1YMTR	576-1487-1-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	8-SOIC	3.44	2.76	2.33
MIC2594-1YMTR	576-1487-2-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	8-SOIC	5332.50/2,500		
MIC2594-2YMTR	576-1488-1-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	8-SOIC	3.44	2.76	2.33
MIC2594-2YMTR	576-1488-2-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	8-SOIC	5332.50/2,500		
MIC2595-1YMTR	576-1489-1-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	6.34	5.08	4.28
MIC2595-1YMTR	576-1489-2-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	9827.50/2,500		
MIC2595-2YMTR	576-1490-1-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	6.34	5.08	4.28
MIC2595-2YMTR	576-1490-2-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	9827.50/2,500		
MIC2595R-2YMTR	576-1491-1-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	6.34	5.08	4.28
MIC2595R-2YMTR	576-1491-2-ND	Single-Channel, Negative High Voltage Hot Swap Controller ***NEW!***	14-SOIC	9827.50/2,500		

INTEGRATED CIRCUITS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MICRF610TR	576-1467-1-ND	868-870MHz ISM Band Transceiver Module ***NEW!***	11.5x14.1mm	19.01	17.74	16.48
MICRF610TR	576-1467-2-ND	868-870MHz ISM Band Transceiver Module ***NEW!***	11.5x14.1mm	7919.00/500		
MICRF620TR	576-1468-1-ND	434MHz ISM Band Transceiver Module ***NEW!***	11.5x14.1mm	19.01	17.74	16.48
MICRF620TR	576-1468-2-ND	434MHz ISM Band Transceiver Module ***NEW!***	11.5x14.1mm	7919.00/500		
SY10EL11VZG	576-1370-ND	3.3V, 5V 1:2 Diff. Fanout Buffer	8-SOIC	3.47	2.78	2.16
SY10EL15ZG	576-1371-ND	1:4 Clock Distribution	16-SOIC	4.34	3.48	2.71
SY10EL16VZG	576-1372-ND	5V, 3.3V Differential Receiver	8 SOIC	2.97	2.38	1.85
SY10ELT22ZG	576-1373-ND	Dual TTL-to-Diff. PECL Translator	8-SOIC	2.86	2.29	1.78
SY10ELT23ZG	576-1374-ND	Dual Diff. PECL-to-TTL Translator	8-SOIC	2.86	2.29	1.78
SY100E104JY	576-1345-ND	Quint 2-Input AND/NAND Gate	28-PLCC	5.40	4.32	3.36
SY100E111LJG TR	576-1346-1-ND	3.3V, 5V, 1:9 Diff. Clock Driver	28-PLCC	6.84	5.48	4.62
SY100E111LJY TR	576-1346-2-ND	3.3V, 5V, 1:9 Diff. Clock Driver	28-PLCC	3257.25/750		
SY100E222LTG	576-1347-ND	Clock Generator/Buffer LVPECL	52-LQFP	9.90	7.92	6.69
SY100E417JG TR	576-1348-1-ND	Quint LVPECL-to-PECL or PECL-to-LVPECL Translator	28-PLCC	12.69	11.43	10.14
SY100E417JY TR	576-1348-2-ND	Quint LVPECL-to-PECL or PECL-to-LVPECL Translator	28-PLCC	7143.75/750		
SY100EL11VZG TR	576-1349-1-ND	3.3V, 5V, 1:2 Diff. Fanout Buffer	8-SOIC	2.25	1.80	1.40
SY100EL11VZG TR	576-1349-2-ND	3.3V, 5V, 1:2 Diff. Fanout Buffer	8-SOIC	1275.00/1,000		
SY100EL15ZG	576-1350-ND	1:4 Clock Distribution	16-SOIC	4.34	3.48	2.71
SY100EL16VZG	576-1351-ND	5V, 3.3V Differential Receiver	8 SOIC	2.25	1.80	1.40
SY100EL17VZG TR	576-1352-1-ND	5V, 3.3V Quad Differential Receiver	20-SOIC	3.60	2.88	2.24
SY100EL17VZG TR	576-1352-2-ND	5V, 3.3V Quad Differential Receiver	20-SOIC	2040.00/1,000		
SY100EL32VZG	576-1353-ND	5V/3.3V, 2-Divider	8-SOIC	2.48	1.98	1.54
SY100EL33LZG	576-1354-ND	5V/3.3V, 4-Divider	8-SOIC	2.48	1.98	1.54
SY100EL57LZG	576-1355-ND	4:1 Differential Multiplexer	16-SOIC	4.93	3.95	3.07
SY100EL57ZG	576-1356-ND	4:1 Differential Multiplexer	16-SOIC	4.93	3.95	3.07
SY100EL92ZG	576-1357-ND	Triple LVPECL-to-PECL or PECL-to-LVPECL Translator	20-SOIC	6.16	4.93	4.16
SY100ELT20VZG	576-1358-ND	5V/3.3V TTL-to-Diff. PECL Translator	8-SOIC	2.25	1.80	1.40
SY100ELT20VZG TR	576-1359-1-ND	5V/3.3V TTL-to-Diff. PECL Translator	8-SOIC	2.25	1.80	1.40
SY100ELT20VZG TR	576-1359-2-ND	5V/3.3V TTL-to-Diff. PECL Translator	8-SOIC	1275.00/1,000		

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MICREL
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INTEGRATED CIRCUITS *(Continued)*

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SY100ELT22LZG TR	576-1360-1-ND	3.3V Dual TTL-to-Diff. PECL Translator	8-SOIC	2.25	1.80	1.40
SY100ELT22LZG TR	576-1360-2-ND	3.3V Dual TTL-to-Diff. PECL Translator	8-SOIC	1275.00/1,000		
SY100ELT22ZG	576-1361-ND	Dual TTL-to-Diff. PECL Translator	8-SOIC	2.25	1.80	1.40
SY100ELT23LZG TR	576-1362-1-ND	3.3V Dual Diff. LVPECL-to LVTTL Translator	8-SOIC	2.25	1.80	1.40
SY100ELT23LZG TR	576-1362-2-ND	3.3V Dual Diff. LVPECL-to LVTTL Translator	8-SOIC	1275.00/1,000		
SY100ELT23ZG	576-1363-ND	Dual Diff. PECL-to-TTL Translator	8-SOIC	2.25	1.80	1.40
SY100EP11UKG	576-1365-ND	2.5V/3.3V/5V, 1:2 Diff. PECL/LVPECL/ECL Fanout Buffer	8-MSOP	3.58	2.87	2.23
SY100EP14UK4G	576-1366-ND	2.5V/3.3V/5V, 1:5 LVPECL/PECL/ECL/HSTL 2GHz Clock Driver	20-TSSOP	4.59	3.68	2.86
SY100EP56VK4G	576-1367-ND	3.3V/5V PECL/ECL 3GHz Dual Diff. 2:1 Mux	20-TSSOP	4.93	3.95	3.07
SY100EP111UTG	576-1364-ND	2.5V/3.3V, 1:10 Diff. LVPECL/LVECL/HSTL Clock Driver	32-TQFP	6.60	5.28	4.46
SY100EPT22VKZ	576-1368-ND	3.3V/5V Dual LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MSOP	2.86	2.29	1.78
SY100EPT23LZG	576-1369-ND	3.3V Dual Diff. LVPECL-to-LVTTL Translator	8-SOIC	2.86	2.29	1.78
SY55851AUKG	576-1375-ND	2.5V/3V, 3.0GHz Dual CML AnyGate™ Any Logic	10-MSOP	9.90	7.92	6.69
SY55855VKG	576-1376-ND	Dual CML/PECL/LVPECL-to-LVDS Translator	10-MSOP	7.88	6.31	5.32
SY55857LKG	576-1377-ND	3.3V, 2.5Gbps Any Input-to-LVPECL Dual Translator	10-MSOP	7.88	6.31	5.32
SY55858UHY	576-1378-ND	2.5V/3.3V, 3.0GHz Dual 2x2 CML Crosspoint Switch	32-TQFP	11.91	10.73	9.51
SY55859LMG	576-1379-ND	3.3V, 2.7Gbps Dual 2x2 Crosspoint Switch	32-MLF	13.01	11.72	10.39
SY58023UMG	576-1380-ND	Ultra-Low Jitter 2x2 Crosspoint Switch	16-MLF	13.01	11.72	10.39
SY58024UMG	576-1381-ND	Ultra-Low Jitter Dual 2x2 Crosspoint Switch	32-MLF	16.04	14.45	12.81
SY58025UMG	576-1382-ND	Ultra Precision Dual 2:1 CML Mux	32-MLF	9.90	7.92	6.69
SY58026UMG	576-1383-ND	Ultra Precision Dual 2:1 LVPECL Mux	32-MLF	9.90	7.92	6.69
SY58027UMG	576-1384-ND	Ultra Precision Dual 2:1 400mV LVPECL Mux	32-MLF	9.90	7.92	6.69
SY58028UMG	576-1385-ND	Ultra Precision Diff. CML 4:1 Mux	32-MLF	8.56	7.71	6.84
SY58029UMG	576-1386-ND	Ultra Precision Diff. LVPECL 4:1 Mux	32-MLF	8.56	7.71	6.84
SY58030UMG	576-1387-ND	Ultra Precision, 400mV Diff. LVPECL 4:1 Mux	32-MLF	8.56	7.71	6.84
SY58031UMG	576-1388-ND	Ultra Precision 1:8 CML Fanout Buffer	32-MLF	10.00	9.00	7.98
SY58032UMG	576-1389-ND	Ultra Precision 1:8 Fanout Buffer	32-MLF	10.00	9.00	7.98
SY58034UMG	576-1391-ND	6GHz, 1:6 CML Fanout Buffer	32-MLF	10.00	9.00	7.98
SY58035UMG	576-1392-ND	4.5GHz, 1:6 LVPECL Fanout Buffer	32-MLF	10.00	9.00	7.98
SY58036UMG	576-1393-ND	6GHz, 1:6, 400mV LVPECL Fanout Buffer	32-MLF	10.00	9.00	7.98
SY58037UMG	576-1394-ND	Ultra Precision 8:1 Mux	44-MLF	9.90	8.91	7.91
SY58038UMG	576-1395-ND	Ultra Precision 8:1 Mux	44-MLF	9.90	8.91	7.91
SY58039UMG	576-1396-ND	Ultra Precision 8:1 Mux	44-MLF	9.90	8.91	7.91
SY58040UMG	576-1397-ND	Ultra Precision 4x4 CML Switch	44-MLF	17.33	16.17	15.02
SY58051UMG	576-1398-ND	Ultra Precision CML AnyGate™	16-MLF	13.66	12.30	10.91
SY58052UMG	576-1399-ND	Ultra Precision CML Data and Clock Synchronizer	16-MLF	13.66	12.30	10.91
SY58600UMYG TR	576-1400-1-ND	Ultra Precision Differential CML Line Driver/Receiver	8-MLF	4.21	3.37	2.62
SY58600UMYG TR	576-1400-2-ND	Ultra Precision Differential CML Line Driver/Receiver	8-MLF	2384.00/1,000		
SY58601UMG TR	576-1401-1-ND	Ultra Precision Differential 800mV LVPECL Line Driver/Receiver	8-MLF	4.21	3.37	2.62
SY58601UMG TR	576-1401-2-ND	Ultra Precision Differential 800mV LVPECL Line Driver/Receiver	8-MLF	2384.00/1,000		
SY58602UMG TR	576-1402-1-ND	Ultra Precision Differential 400mV LVPECL Line Driver/Receiver	8-MLF	4.21	3.37	2.62
SY58602UMG TR	576-1402-2-ND	Ultra Precision Differential 400mV LVPECL Line Driver/Receiver	8-MLF	2384.00/1,000		
SY58627LMG	576-1470-1-ND	DC to 6.4GBPS Backplane Receive Buffer ***NEW!***	32-MLF	9.61	8.66	7.68
SY58627LMG	576-1470-2-ND	DC to 6.4GBPS Backplane Receive Buffer ***NEW!***	32-MLF	7126.00/1,000		
SY69753LHG	576-1403-ND	3.3V, 155Mbps Clock/Data Recovery	32-TQFP	15.96	14.37	12.75
SY87729LHI-EVAL	576-1404-ND	Board Eval N SY87729 Experiment	—	232.50	—	—
SY87729LHG	576-1405-ND	3.3V AnyClock™ 10MHz ~ 365MHz Fractional N Synthesizer	32-TQFP	12.93	11.64	10.33
SY87739LHI-EVAL	576-1406-ND	Board Eval N SY87739 Experiment	—	232.50	—	—
SY87739LHG	576-1407-ND	Protocol Transparent 3.3V 10MHz ~ 729MHz Fractional N Synthesizer	32-TQFP	14.21	12.80	11.35
SY88149CLKG	576-1471-1-ND	3.3V, 1.25GBPS PECL Limiting Post Amp ***NEW!***	10-MSOP	8.52	6.82	5.76
SY88149CLKG	576-1471-2-ND	3.3V, 1.25GBPS PECL Limiting Post Amp ***NEW!***	10-MSOP	5325.00/1,000		
SY88315BLMG	576-1472-1-ND	3.3V, 3.2GBPS CML Low Power Limiting Post Amp ***NEW!***	16-MLF	9.50	7.60	6.42
SY88315BLMG	576-1472-2-ND	3.3V, 3.2GBPS CML Low Power Limiting Post Amp ***NEW!***	16-MLF	5938.00/1,000		
SY88343BLMG	576-1473-1-ND	3.3V, 3.2GBPS CML Limiting Post Amp ***NEW!***	16-MLF	9.50	7.60	6.42
SY88343BLMG	576-1473-2-ND	3.3V, 3.2GBPS CML Limiting Post Amp ***NEW!***	16-MLF	3016.50/500		
SY88403BLMG	576-1474-1-ND	3.3V, 4.25GBPS CML Low Power Limiting Post Amp ***NEW!***	16-MLF	9.92	7.94	6.70
SY88403BLMG	576-1474-2-ND	3.3V, 4.25GBPS CML Low Power Limiting Post Amp ***NEW!***	16-MLF	6200.00/1,000		
SY88773VKG	576-1408-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	10-MSOP	9.88	8.90	7.89
SY88773VMG	576-1409-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	16-MLF	9.88	8.90	7.89
SY88843VKG	576-1410-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	10-MSOP	9.88	8.90	7.89
SY88843VMG	576-1411-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	16-MLF	9.88	8.90	7.89
SY88933ALKG	576-1451-ND	3.3V, 1.25GBPS PECL High Sensitivity Limiting Post Amp ***NEW!***	10-MSOP	13.08	11.82	10.49
SY88933VKG TR	576-1412-1-ND	3.3V/5V 1.25Gbps PECL Low Power Limiting Post Amp	10-MSOP	7.74	6.20	5.23
SY88933VKG TR	576-1412-2-ND	3.3V/5V 1.25Gbps PECL Low Power Limiting Post Amp	10-MSOP	4838.00/1,000		
SY88973VKG	576-1413-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	10-MSOP	9.88	8.90	7.89
SY88973VMG	576-1414-ND	3.3V/5V 3.2Gbps CML Low Power Limiting Post Amp	10-MSOP	9.98	8.99	7.97
SY88982LMG	576-1452-ND	3.3V, 2.7GBPS High Current Low Power Laser Driver ***NEW!***	16-MLF	16.57	14.97	13.28
SY88992LMG	576-1475-1-ND	3.3V, 4.25GBPS VCSEL Driver ***NEW!***	16-MLF	8.42	6.74	5.69
SY88992LMG	576-1475-2-ND	3.3V, 4.25GBPS VCSEL Driver ***NEW!***	16-MLF	2673.50/500		
SY88993AVKG TR	576-1415-1-ND	5V/3.3V 3.2 Gbps High Speed Limiting Post Amp	10-MSOP	9.86	7.89	6.66
SY88993AVKG TR	576-1415-2-ND	5V/3.3V 3.2 Gbps High Speed Limiting Post Amp	10-MSOP	6163.00/1,000		
SY89112UMG	576-1416-ND	2.5/3.3V Low Jitter, Low Skew 1:12 LVPECL Fanout Buffer	44-MLF	6.62	5.30	4.47
SY89200UMG	576-1417-ND	Ultra Precision 1:8 LVDS Fanout	32-MLF	7.74	6.20	5.23
SY89325VMG TR	576-1418-1-ND	3.3V/5V 1.5Gbps Diff. CML/PECL/LVPECL-to-LVDS Translator	8-MLF	3.47	2.78	2.16
SY89325VMG TR	576-1418-2-ND	3.3V/5V 1.5Gbps Diff. CML/PECL/LVPECL-to-LVDS Translator	8-MLF	1964.00/1,000		
SY89327LMG TR	576-1419-1-ND	3.3V 2.5Gbps Any Input-to-LVPECL Diff. Translator	8-MLF	3.47	2.78	2.16
SY89327LMG TR	576-1419-2-ND	3.3V 2.5Gbps Any Input-to-LVPECL Diff. Translator	8-MLF	1964.00/1,000		
SY89329VMG TR	576-1420-1-ND	3.3V/5V 800MHz LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MLF	2.84	2.27	1.77
SY89329VMG TR	576-1420-2-ND	3.3V/5V 800MHz LVTTL/LVCMOS-to-Diff. LVPECL Translator	8-MLF	1607.00/1,000		
SY89421VZC	576-1421-ND	5V/3.3V High Performance PLL	20-SOIC	18.60	17.36	16.12
SY89429VZC	576-1422-ND	5V/3.3V Programmable Frequency Synthesizer	28-PLCC	9.18	8.27	7.33
SY89465UMG TR	576-1476-1-ND	Precision LVDS 1:10 Fanout Buffer ***NEW!***	44-MLF	6.68	5.35	4.51
SY89465UMG TR	576-1476-2-ND	Precision LVDS 1:10 Fanout Buffer ***NEW!***	44-MLF	4175.00/1,000		
SY89473UMG	576-1453-ND	Precision LVPECL 2:1 Mux ***NEW!***	24-MLF	14.13	12.77	11.32
SY89542UMG	576-1423-ND	2.5V, 3.2Gbps Dual, Differential 2:1 LVDS Mux	32-MLF	5.92	4.74	4.00
SY89543LMG	576-1424-ND	3.3V, 3.2Gbps Dual, Differential 2:1 LVDS Mux	32-MLF	5.92	4.74	4.00
SY89544UMG	576-1425-ND	2.5V, 3.2Gbps Diff. 4:1 LVDS Mux	32-MLF	5.92	4.74	4.00
SY89545LMG	576-1426-ND	3.3V, 3.2Gbps Diff. 4:1 LVDS Mux	32-MLF	5.92	4.74	4.00
SY89546UMG	576-1427-ND	2.5V, 3.2Gbps Diff. 4:1 LVDS Mux	32-MLF	6.16	4.93	4.16
SY89547LMG	576-1428-ND	3.3V, 3.2Gbps Diff. 4:1 LVDS Mux	32-MLF	6.16	4.93	4.16
SY89823LHG	576-1429-ND	3.3V, 500MHz 1:22 Differential HSTL Fanout Buffer/Translator	64-TQFP	14.11	12.71	11.27
SY89830UK4G	576-1430-ND	2.5V/3.3/5V 2.5GHz 1:4 PECL/ECL Clock Driver	16-TSSOP	7.86	6.29	5.31
SY89831UMG	576-1431-ND	Ultra Precision 1:4 LVPECL Fanout Buffer/Translator	16-MLF	7.86	6.29	5.31
SY89832UMG	576-1432-ND	2.5V Ultra Precision 1:4 LVDS Fanout Buffer/Translator	16-MLF	7.86	6.29	5.31
SY89833LMG	576-1433-ND	3.3V Ultra Precision 1:4 LVDS Fanout Buffer/Translator	16-MLF	7.86	6.29	5.31
SY89840UMG	576-1434-ND	Precision LVPECL Runt Pulse Eliminator 2:1 Mux	16-MLF	4.48	3.59	2.79
SY89844UMG	576-1454-ND	Precision LVDS Runt Pulse Eliminator 2:1 Mux ***NEW!***	24-MLF	14.48	13.08	11.60
SY89845UMG	576-1455-ND	Precision CML Runt Pulse Eliminator 2:1 Mux ***NEW!***	24-MLF	14.48	13.08	11.60
SY89859UMG	576-1456-ND	Precision Low Power 8:1 Mux ***NEW!***	44-MLF	6.15	5.74	5.33
SY89871UMG	576-1435-ND	2.5GHz Any Diff. In-to-LVPECL Prog. Clock Divider/Fanout Buffer	16-MLF	9.56	7.65	6.46
SY89873LMG	576-1436-ND	3.3V, 2.0GHz Any Diff. In-to-LVDS Prog. Clock Divider/Fanout Buffer	16-MLF	9.56	7.65	6.46
SY89874UMG	576-1437-ND	2.5GHz Any Diff. In-to-LVPECL Prog. Clock Divider/Fanout Buffer	16-MLF	8.54	6.84	5.77

MICREL
Innovation Through Technology™

LATCHED DRIVERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC59P50YWM	576-1312-ND	8-Bit Parallel-Input Protected Latched Driver	24-SOIC	5.11	4.09	3.18
MIC59P60YN	576-1313-ND	8-Bit Parallel-Input Protected Latched Driver	20-Dip	5.20	4.16	3.24
MIC5800YM TR	576-1301-1-ND	4-Bit Parallel-Input Latched Driver	14-SOIC	1.65	1.32	.99
MIC5800YM TR	576-1301-2-ND	4-Bit Parallel-Input Latched Driver	14-SOIC	2112.50/2,500		
MIC5800YN	576-1302-ND	4-Bit Parallel-Input Latched Driver	14-Dip	2.40	1.92	1.44
MIC5801YN	576-1303-ND	8-Bit Parallel-Input Latched Driver	22-Dip	3.51	2.81	2.19
MIC5801YV	576-1304-ND	8-Bit Parallel-Input Latched Driver	28-PLCC	3.65	2.92	2.27
MIC5801YWM	576-1305-ND	8-Bit Parallel-Input Latched Driver	24-SOIC	3.51	2.81	2.19
MIC5821YN	576-1306-ND	8-Bit Serial-Input Latched Driver	16-Dip	2.90	2.33	1.81
MIC5841YN	576-1307-ND	8-Bit Serial-Input Latched Driver	18-Dip	2.97	2.38	1.85
MIC5841YWM TR	576-1308-1-ND	8-Bit Serial-Input Latched Driver	18-SOIC	2.97	2.38	1.85
MIC5841YWM TR	576-1308-2-ND	8-Bit Serial-Input Latched Driver	18-SOIC	1683.00/1,000		
MIC5842YN	576-1309-ND	8-Bit Serial-Input Latched Driver	18-Dip	3.15	2.52	1.96
MIC5891YN	576-1310-ND	8-Bit Serial-Input Latched Source Driver	16-Dip	2.25	1.80	1.40
MIC5891YWM TR	576-1311-1-ND	8-Bit Serial-Input Latched Source Driver	16-SOIC	2.25	1.80	1.40
MIC5891YWM TR	576-1311-2-ND	8-Bit Serial-Input Latched Source Driver	16-SOIC	1275.00/1,000		

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
LP2950-03YZ TR	576-1050-1-ND	5V, 100mA Low Dropout Volt. Reg.	TO-92	1.20	1.00	.80
LP2950-03YZ TR	576-1050-2-ND	5V, 100mA Low Dropout Volt. Reg.	TO-92	1064.00/2,000		
LP2951-02YM	576-1051-ND	Adj., 100mA Low Dropout Volt. Reg.	8-SOIC	1.11	.93	.74
LP2951-03YM	576-1052-ND	Adj., 100mA Low Dropout Volt. Reg.	8-SOIC	1.02	.85	.68
MIC2215-PPMYML TR	576-1073-1-ND	Triple High PSRR, Low Noise µCap LDO	16-MLF	2.45	1.97	1.53
MIC2215-PPMYML TR	576-1073-2-ND	Triple High PSRR, Low Noise µCap LDO	16-MLF	6815.00/5,000		
MIC2215-PPPYML TR	576-1074-1-ND	Triple High PSRR, Low Noise µCap LDO	16-MLF	2.52	2.02	1.57
MIC2215-PPPYML TR	576-1074-2-ND	Triple High PSRR, Low Noise µCap LDO	16-MLF	7000.00/5,000		
MIC2920A-3.3WS TR	576-1116-1-ND	3.3V, 400mA LDO Voltage Reg.	SOT-223	1.38	1.10	.83
MIC2920A-3.3WS TR	576-1116-2-ND	3.3V, 400mA LDO Voltage Reg.	SOT-223	1760.00/2,500		
MIC2920A-5.0WS TR	576-1117-1-ND	5V, 400mA LDO Voltage Reg.	SOT-223	1.38	1.10	.83
MIC2920A-5.0WS TR	576-1117-2-ND	5V, 400mA LDO Voltage Reg.	SOT-223	1760.00/2,500		
MIC2937A-3.3WU	576-1131-ND	3.3V, 750mA LDO Voltage Reg.	TO-263	2.48	1.98	1.54
MIC2937A-5.0WT	576-1132-ND	5V, 750mA LDO Voltage Reg.	TO-220	2.48	1.98	1.54
MIC2937A-5.0WU	576-1133-ND	5V, 750mA LDO Voltage Reg.	TO-263	2.25	1.80	1.40
MIC2940A-3.3WT	576-1134-ND	3.3V, 1.25A LDO Voltage Reg.	TO-220	2.38	1.90	1.43
MIC2940A-3.3WU	576-1135-ND	3.3V, 1.25A LDO Voltage Reg.	TO-263	2.00	1.60	1.20
MIC2940A-5.0WT	576-1136-ND	5V, 1.25A LDO Voltage Reg.	TO-220	2.38	1.90	1.43
MIC2940A-5.0WU	576-1137-ND	5V, 1.25A LDO Voltage Reg.	TO-263	2.00	1.60	1.20
MIC2941AWT	576-1138-ND	Adj., 1.25A LDO Voltage Reg.	TO-220-5	2.54	2.04	1.59
MIC2941AWU TR	576-1139-1-ND	Adj., 1.25A LDO Voltage Reg.	TO-263-5	2.35	1.88	1.41
MIC2941AWU TR	576-1139-2-ND	Adj., 1.25A LDO Voltage Reg.	TO-263-5	951.75/750		
MIC2950-05YZ	576-1140-ND	5V, 150mA LDO Voltage Reg.	TO-92	1.28	1.02	.77
MIC2950-06YZ TR	576-1141-1-ND	5V, 150mA LDO Voltage Reg.	TO-92	1.28	1.02	.77
MIC2950-06YZ TR	576-1141-2-ND	5V, 150mA LDO Voltage Reg.	TO-92	1326.00/2,000		
MIC2951-02YM TR	576-1148-1-ND	5V, 250mA Low Dropout Reg.	8-SOIC	1.20	1.00	.80
MIC2951-02YM TR	576-1148-2-ND	5V, 150mA Low Dropout Reg.	8-SOIC	1300.00/2,500		
MIC2951-03YM TR	576-1149-1-ND	5V, 250mA Low Dropout Reg.	8-SOIC	1.14	.95	.76
MIC2951-03YM TR	576-1149-2-ND	5V, 150mA Low Dropout Reg.	8-SOIC	1235.00/2,500		
MIC2951-03YN	576-1150-ND	5V, 150mA Low Dropout Reg.	8-Dip	1.58	1.26	.95
MIC2951-3.3YM	576-1151-ND	3.3V, 150mA Low Dropout Reg.	8-SOIC	.95	.76	.57
MIC2954-02WS	576-1152-ND	5V, 250mA Low Dropout Reg.	SOT-223	1.80	1.44	1.08
MIC2954-02YZ	576-1153-ND	5V, 250mA Low Dropout Reg.	TO-92	1.90	1.52	1.14
MIC2954-03WS TR	576-1154-1-ND	5V, 250mA Low Dropout Reg.	SOT-223	1.75	1.40	1.05
MIC2954-03WS TR	576-1154-2-ND	5V, 250mA Low Dropout Reg.	SOT-223	2240.00/2,500		
MIC2954-07YM	576-1155-ND	5V, 250mA Low Dropout Reg.	8-SOIC	1.78	1.42	1.07
MIC2954-08YM TR	576-1156-1-ND	5V, 250mA Low Dropout Reg.	8-SOIC	1.95	1.56	1.17
MIC2954-08YM TR	576-1156-2-ND	5V, 250mA Low Dropout Reg.	8-SOIC	2495.00/2,500		
MIC5158YM	576-1243-ND	5V/Adj., Super LDO™ Reg.	14-SOIC	3.02	2.42	1.88
MIC5190YMM	576-1244-ND	Adj., Ultra High-Speed High Current Active Filter/LDO Controller	10-MSOP	4.79	3.84	2.99
MIC5191YMM	576-1245-ND	Adj., Ultra High-Speed High Current Active Filter/LDO Controller	10-MSOP	5.02	4.02	3.13
MIC5200-3.3YM	576-1246-ND	3.3V, 100mA Low Dropout Reg.	8-SOIC	1.38	1.15	.92
MIC5200-3.3YS	576-1247-ND	3.3V, 100mA Low Dropout Reg.	SOT-223	1.29	1.08	.86
MIC5200-5.0YM	576-1248-ND	5V, 100mA Low Dropout Reg.	8-SOIC	1.38	1.15	.92
MIC5200-5.0YS TR	576-1249-1-ND	5V, 100mA Low Dropout Reg.	SOT-223	1.29	1.08	.86
MIC5200-5.0YS TR	576-1249-2-ND	5V, 100mA Low Dropout Reg.	SOT-223	1397.50/2,500		
MIC5201-3.3YM TR	576-1250-1-ND	3.3V, 200mA Low Dropout Reg.	8-SOIC	1.38	1.10	.83
MIC5201-3.3YM TR	576-1250-2-ND	3.3V, 200mA Low Dropout Reg.	8-SOIC	1760.00/2,500		
MIC5201-3.3YS TR	576-1251-1-ND	3.3V, 200mA Low Dropout Reg.	SOT-223	1.25	1.00	.75
MIC5201-3.3YS TR	576-1251-2-ND	3.3V, 200mA Low Dropout Reg.	SOT-223	1600.00/2,500		
MIC5201-4.8YS	576-1252-ND	4.85V, 200mA Low Dropout Reg.	SOT-223	1.25	1.00	.75
MIC5201-5.0YM	576-1253-ND	5V, 200mA Low Dropout Reg.	8-SOIC	1.38	1.10	.83
MIC5201-5.0YS	576-1254-ND	5V, 200mA Low Dropout Reg.	SOT-223	1.25	1.00	.75
MIC5203-3.3YM4 TR	576-1255-1-ND	3.3V, µCap 80mA LDO Reg.	SOT-143	.78	.65	.52
MIC5203-3.3YM4 TR	576-1255-2-ND	3.3V, µCap 80mA LDO Reg.	SOT-143	1014.00/3,000		
MIC5203-5.0YM4 TR	576-1256-1-ND	5V, µCap 80mA LDO Reg.	SOT-143	.78	.65	.52
MIC5203-5.0YM4 TR	576-1256-2-ND	5V, µCap 80mA LDO Reg.	SOT-143	1014.00/3,000		
MIC5205-2.5YM5 TR	576-1257-1-ND	2.5V, 150mA Low Noise LDO Reg.	SOT-23-5	.60	.45	.34
MIC5205-2.5YM5 TR	576-1257-2-ND	2.5V, 150mA Low Noise LDO Reg.	SOT-23-5	585.00/3,000		
MIC5205-3.0YM5 TR	576-1258-1-ND	3V, 150mA Low Noise LDO Reg.	SOT-23-5	.60	.45	.34
MIC5205-3.0YM5 TR	576-1258-2-ND	3V, 150mA Low Noise LDO Reg.	SOT-23-5	585.00/3,000		
MIC5205-3.3YM5 TR	576-1259-1-ND	3.3V, 150mA Low Noise LDO Reg.	SOT-23-5	.60	.45	.34
MIC5205-3.3YM5 TR	576-1259-2-ND	3.3V, 150mA Low Noise LDO Reg.	SOT-23-5	585.00/3,000		
MIC5205-3.6YM5 TR	576-1260-1-ND	3.6V, 150mA Low Noise LDO Reg.	SOT-23-5	.60	.45	.34
MIC5205-3.6YM5 TR	576-1260-2-ND	3.6V, 150mA Low Noise LDO Reg.	SOT-23-5	585.00/3,000		
MIC5205-5.0YM5 TR	576-1261-1-ND	5V, 150mA Low Noise LDO Reg.	SOT-23-5	.60	.45	.34
MIC5205-5.0YM5 TR	576-1261-2-ND	5V, 150mA Low Noise LDO Reg.	SOT-23-5	585.00/3,000		
MIC5205YM5 TR	576-1262-1-ND	Adj., 150mA Low Noise LDO Reg.	SOT-23-5	.60	.45	.34
MIC5205YM5 TR	576-1262-2-ND	Adj., 150mA Low Noise LDO Reg.	SOT-23-5	585.00/3,000		
MIC5206-3.0YM5 TR	576-1263-1-ND	3V, 150mA Low Noise LDO Reg.	SOT-23-5	.90	.75	.60
MIC5206-3.0YM5 TR	576-1263-2-ND	3V, 150mA Low Noise LDO Reg.	SOT-23-5	1170.00/3,000		
MIC5206-3.2YM5 TR	576-1264-1-ND	3.2V, 150mA Low Noise LDO Reg.	SOT-23-5	.90	.75	.60
MIC5206-3.2YM5 TR	576-1264-2-ND	3.2V, 150mA Low Noise LDO Reg.	SOT-23-5	1170.00/3,000		
MIC5206-4.0YM5 TR	576-1265-1-ND	4V, 150mA Low Noise LDO Reg.	SOT-23-5	.90	.75	.60
MIC5206-4.0YM5 TR	576-1265-2-ND	4V, 150mA Low Noise LDO Reg.	SOT-23-5	1170.00/3,000		
MIC5207-2.5YM5 TR	576-1266-1-ND	2.5V, 180mA Low Noise LDO Reg.	SOT-23-5	.76	.57	.43
MIC5207-2.5YM5 TR	576-1266-2-ND	2.5V, 180mA Low Noise LDO Reg.	SOT-23-5	741.00/3,000		
MIC5207-3.3YM5 TR	576-1267-1-ND	3.3V, 180mA Low Noise LDO Reg.	SOT-23-5	.76	.57	.43
MIC5207-3.3YM5 TR	576-1267-2-ND	3.3V, 180mA Low Noise LDO Reg.	SOT-23-5	741.00/3,000		
MIC5207-5.0YM5 TR	576-1268-1-ND	5V, 180mA Low Noise LDO Reg.	SOT-23-5	.76	.57	.43
MIC5207-5.0YM5 TR	576-1268-2-ND	5V, 180mA Low Noise LDO Reg.	SOT-23-5	741.00/3,000		
MIC5207YM5 TR	576-1269-1-ND	Adj., 180mA Low Noise LDO Reg.	SOT-23-5	.76	.57	.43
MIC5207YM5 TR	576-1269-2-ND	Adj., 180mA Low Noise LDO Reg.	SOT-23-5	741.00/3,000		
MIC5209-1.8YM	576-1270-ND	1.8V, 500mA Low Noise LDO Reg.	8-SOIC	1.35	1.13	.90
MIC5209-2.5YM TR	576-1271-1-ND	2.5V, 500mA Low Noise LDO Reg.	8-SOIC	1.35	1.13	.90
MIC5209-2.5YM TR	576-1271-2-ND	2.5V, 500mA Low Noise LDO Reg.	8-SOIC	1462.50/2,500		
MIC5209-2.5YS TR	576-1272-1-ND	2.5V, 500mA Low Noise LDO Reg.	SOT-223	1.35	1.13	.90
MIC5209-2.5YS TR	576-1272-2-ND	2.5V, 500mA Low Noise LDO Reg.	SOT-223	1462.50/2,500		
MIC5209-3.3YM	576-1273-ND	3.3V, 500mA Low Noise LDO Reg.	8-SOIC	1.35	1.13	.90
MIC5209-3.3YS TR	576-1274-1-ND	3.3V, 500mA Low Noise LDO Reg.	SOT-223	1.35	1.13	.90
MIC5209-3.3YS TR	576-1274-2-ND	3.3V, 500mA Low Noise LDO Reg.	SOT-223	1462.50/2,500		
MIC5209-5.0YM TR	576-1275-1-ND	5V, 500mA Low Noise LDO Reg.	8-SOIC	1.35	1.13	.90
MIC5209-5.0YM TR	576-1275-2-ND	5V, 500mA Low Noise LDO Reg.	8-SOIC	1462.50/2,500		
MIC5209-5.0YS	576-1276-ND	5V, 500mA Low Noise LDO Reg.	SOT-223	1.35	1.13	.90
MIC5209-5.0YU	576-1277-ND	5V, 500mA Low Noise LDO Reg.	TO-263-5	1.43	1.14	.86
MIC5209YM	576-1278-ND	Adj., 500mA Low Noise LDO Reg.	8-SOIC	1.35	1.13	.90

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MIC5209YU	576-1279-ND	Adj., 500mA Low Noise LDO Reg.	TO-263-5	1.43	1.14	.86
MIC5219-3.0YMM TR	576-1280-1-ND	3V, 500mA Peak Out LDO Reg.	8-MSOP	1.78	1.42	1.07
MIC5219-3.0YMM TR	576-1280-2-ND	3V, 500mA Peak Out LDO Reg.	8-MSOP	2272.50/2,500		
MIC5219-3.3YM5 TR	576-1281-1-ND	3.3V, 500mA Peak Out LDO Reg.	SOT-23-5	1.43	1.14	.86
MIC5219-3.3YM5 TR	576-1281-2-ND	3.3V, 500mA Peak Out LDO Reg.	SOT-23-5	2190.00/3,000		
MIC5219YM5 TR	576-1282-1-ND	Adj., 500mA Peak Out LDO Reg.	SOT-23-5	1.43	1.14	.86
MIC5219YM5 TR	576-1282-2-ND	Adj., 500mA Peak Out LDO Reg.	SOT-23-5	2190.00/3,000		
MIC5231-3.0YM5 TR	576-1283-1-ND	3V, Micropower µCap LDO Reg.	SOT-23-5	1.78	1.42	1.07
MIC5231-3.0YM5 TR	576-1283-2-ND	3V, Micropower µCap LDO Reg.	SOT-23-5	2727.00/3,000		
MIC5235YM5 TR	576-1284-1-ND	Adj., Ultra Low Quiescent Current 150mA µCap LDO Regulator	SOT-23-5	1.38	1.10	.83
MIC5235YM5 TR	576-1284-2-ND	Adj., Ultra Low Quiescent Current 150mA µCap LDO Regulator	SOT-23-5	2112.00/3,000		
MIC5236YM	576-1285-ND	Adj., Low Quiescent Current µCap LDO Reg.	8-SOIC	1.78	1.42	1.07
MIC5237-3.3YU	576-1286-ND	3.3V, 500mA Low Dropout Reg.	TO-263	1.85	1.48	1.11
MIC5239YMM	576-1287-ND	Adj., Low Quiescent Current 500mA µCap LDO Regulator	8-MSOP	2.27	1.82	1.42
MIC5247-1.8YM5 TR	576-1288-1-ND	1.8V, 150mA Low Voltage µCap Linear Regulator	SOT-23-5	.96	.72	.54
MIC5247-1.8YM5 TR	576-1288-2-ND	1.8V, 150mA Low Voltage µCap Linear Regulator	SOT-23-5	936.00/3,000		
MIC5253-3.3YC5	576-1289-1-ND	3.3V, 100mA Low Noise µCap Teeny™ LDO	SC-70-5	.87	.73	.58
MIC5253-3.3YC5	576-1289-2-ND	3.3V, 100mA Low Noise µCap Teeny™ LDO	SC-70-5	1131.00/3,000		
MIC5255-3.3YM5 TR	576-1290-1-ND	3.3V, 150mA Low Noise µCap CMOS LDO	SOT-23-5	.96	.72	.54
MIC5255-3.3YM5 TR	576-1290-2-ND	3.3V, 150mA Low Noise µCap CMOS LDO	SOT-23-5	936.00/3,000		
MIC5256-2.5YM5 TR	576-1291-1-ND	2.5V, 150mA µCap LDO with Error Flag	SOT-23-5	.78	.65	.52
MIC5256-2.5YM5 TR	576-1291-2-ND	2.5V, 150mA µCap LDO with Error Flag	SOT-23-5	1014.00/3,000		
MIC5256-3.0YM5 TR	576-1292-1-ND	3V, 150mA µCap LDO with Error Flag	SOT-23-5	.78	.65	.52
MIC5256-3.0YM5 TR	576-1292-2-ND	3V, 150mA µCap LDO with Error Flag	SOT-23-5	1014.00/3,000		
MIC5256-3.3YM5 TR	576-1293-1-ND	3.3V, 150mA µCap LDO with Error Flag	SOT-23-5	.78	.65	.52
MIC5256-3.3YM5 TR	576-1293-2-ND	3.3V, 150mA µCap LDO with Error Flag	SOT-23-5	1014.00/3,000		
MIC5264-MFYML TR	576-1438-1-ND	150mA µCap Dual LDO Reg. ***NEW!***	10-MLF	.87	.73	.58
MIC5264-MFYML TR	576-1438-2-ND	150mA µCap Dual LDO Reg. ***NEW!***	10-MLF	1930.00/5,000		
MIC5265-1.8YD5 TR	576-1439-1-ND	150mA µCap LDO Reg. ***NEW!***	TSOT-23-5	.48	.36	.27
MIC5265-1.8YD5 TR	576-1439-2-ND	150mA µCap LDO Reg. ***NEW!***	TSOT-23-5	468.00/3,000		
MIC5270-5.0YM5 TR	576-1294-1-ND	–5V, µCap Negative LDO Reg.	SOT-23-5	2.00	1.60	1.20
MIC5270-5.0YM5 TR	576-1294-2-ND	–5V, µCap Negative LDO Reg.	SOT-23-5	3072.00/3,000		
MIC5270YM5 TR	576-1295-1-ND	Adj., µCap Negative LDO Reg.	SOT-23-5	2.00	1.60	1.20
MIC5270YM5 TR	576-1295-2-ND	Adj., µCap Negative LDO Reg.	SOT-23-5	3072.00/3,000		
MIC5305-1.8YD5	576-1296-1-ND	1.8V, 150mA µCap Ultra-LDO Reg.	TSOT-23-5	2.20	1.65	1.24
MIC5305-1.8YD5	576-1296-2-ND	1.8V, 150mA µCap Ultra-LDO Reg.	TSOT-23-5	2145.00/3,000		
MIC5305-3.0YD5	576-1297-1-ND	3V, 150mA µCap Ultra-LDO Reg.	TSOT-23-5	2.20	1.65	1.24
MIC5305-3.0YD5	576-1297-2-ND	3V, 150mA µCap Ultra-LDO Reg.	TSOT-23-5	2145.00/3,000		
MIC5305-3.3YD5	576-1298-1-ND	3.3V, 150mA µCap Ultra-LDO Reg.	TSOT-23-5	2.20	1.65	1.24
MIC5305-3.3YD5	576-1298-2-ND	3.3V, 150mA µCap Ultra-LDO Reg.	TSOT-23-5	2145.00/3,000		
MIC5319YML TR	576-1299-1-ND	Adj., 500mA µCap Ultra-LDO High PSRR LDO Regulator	6-MLF	2.25	1.80	1.35
MIC5319YML TR	576-1299-2-ND	Adj., 500mA µCap Ultra-LDO High PSRR LDO Regulator	6-MLF	5625.00/5,000		
MIC29150-3.3WT	576-1104-ND	3.3V, High-Current LDO Reg.	TO-220	3.58	2.87	2.23
MIC29150-3.3WU	576-1105-ND	3.3V, High-Current LDO Reg.	TO-263	2.45	1.97	1.53
MIC29150-5.0WT	576-1106-ND	5V, High-Current LDO Reg.	TO-220	3.58	2.87	2.23
MIC29150-5.0WU	576-1107-ND	5V, High-Current LDO Reg.	TO-263	2.45	1.97	1.53
MIC29151-3.3WU	576-1108-ND	3.3V, High-Current LDO Reg.	TO-263-5	2.59	2.07	1.61
MIC29151-5.0WT	576-1109-ND	5V, High-Current LDO Reg.	TO-220-5	3.78	3.03	2.36
MIC29151-5.0WU	576-1110-ND	5V, High-Current LDO Reg.	TO-263-5	2.59	2.07	1.61
MIC29152WT	576-1111-ND	Adj., High-Current LDO Reg.	TO-220-5	2.38	1.90	1.43
MIC29152WU TR	576-1112-1-ND	Adj., High-Current LDO Reg.	TO-263-5	2.38	1.90	1.43
MIC29152WU TR	576-1112-2-ND	Adj., High-Current LDO Reg.	TO-263-5	962.25/750		
MIC29201-5.0WU	576-1113-ND	5V, 400mA LDO Voltage Reg.	TO-263-5	3.26	2.61	2.03
MIC29202WU	576-1114-ND	Adj., 400mA LDO Voltage Reg.	TO-263-5	2.63	2.11	1.64
MIC29204YM	576-1115-ND	5V and Adj., 400mA LDO Volt. Reg.	8-SOIC	2.00	1.60	1.20
MIC29300-12WT	576-1118-ND	12V, High-Current LDO Reg.	TO-220	3.02	2.42	1.88
MIC29300-3.3WT	576-1119-ND	3.3V, High-Current LDO Reg.	TO-220	3.02	2.42	1.88
MIC29300-3.3WU	576-1120-ND	3.3V, High-Current LDO Reg.	TO-263	3.02	2.42	1.88
MIC29300-5.0WT	576-1121-ND	5V, High-Current LDO Reg.	TO-220	3.02	2.42	1.88
MIC29300-5.0WU	576-1122-ND	5V, High-Current LDO Reg.	TO-263	3.02	2.42	1.88
MIC29301-3.3WU	576-1123-ND	3.3V, High-Current LDO Reg.	TO-263-5	4.39	3.51	2.73
MIC29302WT	576-1124-ND	Adj., High-Current LDO Reg.	TO-220-5	2.48	1.98	1.54
MIC29302WU TR	576-1125-1-ND	Adj., High-Current LDO Reg.	TO-263-5	2.48	1.98	1.54
MIC29302WU TR	576-1125-2-ND	Adj., High-Current LDO Reg.	TO-263-5	1072.50/750		
MIC29303WU	576-1126-ND	Adj., High-Current LDO Reg.	TO-263-5	5.58	4.47	3.48
MIC29371-5.0WT	576-1127-ND	5V, 750mA LDO Voltage Reg.	TO-220-5	3.74	2.99	2.33
MIC29371-5.0WU	576-1128-ND	5V, 750mA LDO Voltage Reg.	TO-263-5	3.74	2.99	2.33
MIC29372WT	576-1129-ND	Adj., 750mA LDO Voltage Reg.	TO-220-5	3.74	2.99	2.33
MIC29372WU TR	576-1130-1-ND	Adj., 750mA LDO Voltage Reg.	TO-263-5	3.74	2.99	2.33
MIC29372WU TR	576-1130-2-ND	Adj., 750mA LDO Voltage Reg.	TO-263-5	1618.50/750		
MIC29500-3.3WT	576-1142-ND	3.3V, High-Current LDO Reg.	TO-220	7.08	5.67	4.78
MIC29500-5.0WT	576-1143-ND	5V, High-Current LDO Reg.	TO-220	7.08	5.67	4.78
MIC29501-3.3WU	576-1144-ND	3.3V, High-Current LDO Reg.	TO-263-5	8.14	6.52	5.50
MIC29502WT	576-1145-ND	Adj., High-Current LDO Reg.	TO-220-5	8.14	6.52	5.50
MIC29502WU TR	576-1146-1-ND	Adj., High-Current LDO Reg.	TO-263-5	8.14	6.52	5.50
MIC29502WU TR	576-1146-2-ND	Adj., High-Current LDO Reg.	TO-263-5	3876.75/750		
MIC29503WU	576-1147-ND	Adj., High-Current LDO Reg.	TO-263-5	7.92	6.34	5.35
MIC29752WWT	576-1157-ND	Adj., High-Current LDO Reg.	TO-247-5	13.16	11.85	10.51
MIC37100-1.5WS	576-1161-ND	1.5V, 1A Low Volt. µCap LDO Reg.	SOT-223	1.32	1.10	.88
MIC37100-2.5WS	576-1162-ND	2.5V, 1A Low Volt. µCap LDO Reg.	SOT-223	1.32	1.10	.88
MIC37100-3.3WS	576-1163-ND	3.3V, 1A Low Volt. µCap LDO Reg.	SOT-223	1.32	1.10	.88
MIC37151-1.5WR	576-1164-ND	1.5V, 1.5A Low Volt. µCap LDO Reg.	5-SPAK	3.29	2.63	2.05

(Continued)

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LDO REGULATORS *(Continued)*

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC37152WR	576-1165-ND	Adj., 1.5A Low Volt. µCap LDO Reg.	5-SPAK	3.58	2.87	2.23
MIC37301-1.5WR	576-1166-ND	1.5V, 3.0A Low Volt. µCap LDO Reg.	5-SPAK	4.10	3.28	2.55
MIC37302WR TR	576-1167-1-ND	Adj., 3.0A Low Volt. µCap LDO Reg.	5-SPAK	4.23	3.39	2.64
MIC37302WR TR	576-1167-2-ND	Adj., 3.0A Low Volt. µCap LDO Reg.	5-SPAK	1833.00/750		
MIC39100-1.8WS	576-1170-ND	1.8V, 1A Low Voltage LDO Reg.	SOT-223	1.47	1.23	.98
MIC39100-2.5WS TR	576-1171-1-ND	2.5V, 1A Low Voltage LDO Reg.	SOT-223	1.47	1.23	.98
MIC39100-2.5WS TR	576-1171-2-ND	2.5V, 1A Low Voltage LDO Reg.	SOT-223	1592.50/2,500		
MIC39100-3.3WS	576-1172-ND	3.3V, 1A Low Voltage LDO Reg.	SOT-223	1.47	1.23	.98
MIC39100-5.0WS	576-1173-ND	5V, 1A Low Voltage LDO Reg.	SOT-223	1.47	1.23	.98
MIC39101-5.0YM	576-1174-ND	5V, 1A Low Voltage LDO Reg.	8-SOIC	1.40	1.12	.84
MIC39102YM	576-1175-ND	Adj., 1A Low Voltage LDO Reg.	8-SOIC	1.40	1.12	.84
MIC39150-1.8WU	576-1176-ND	1.8V, 1.5A Low Voltage LDO Reg.	TO-263	2.35	1.88	1.41
MIC39150-2.5WU	576-1177-ND	2.5V, 1.5A Low Voltage LDO Reg.	TO-263	2.35	1.88	1.41
MIC39300-1.8WU	576-1178-ND	1.8V, 3A Low Voltage LDO Reg.	TO-263	2.63	2.11	1.64
MIC39300-2.5WU TR	576-1179-1-ND	2.5V, 3A Low Voltage LDO Reg.	TO-263	2.63	2.11	1.64
MIC39300-2.5WU TR	576-1179-2-ND	2.5V, 3A Low Voltage LDO Reg.	TO-263	1140.75/750		
MIC39301-1.8WU	576-1180-ND	1.8V, 3A Low Voltage LDO Reg.	TO-263-5	2.90	2.33	1.81
MIC39301-2.5WU	576-1181-ND	2.5V, 3A Low Voltage LDO Reg.	TO-263-5	2.90	2.33	1.81
MIC39500-2.5WU	576-1182-ND	2.5V, 5A Low Voltage LDO Reg.	TO-263	4.64	3.71	2.89
MIC49150WR	576-1227-ND	Adj., 1.5A Low Voltage LDO Reg.	5-SPAK	3.65	2.92	2.27
MIC49150YMM	576-1228-ND	Adj., 1.5A Low Voltage LDO Reg.	8-MSOP	3.04	2.43	1.89
MIC49200-1.2WR	576-1465-1-ND	2A Low Voltage LDO ***NEW!***	5-SPAK	3.20	2.56	1.99
MIC49200-1.2WR	576-1465-2-ND	2A Low Voltage LDO ***NEW!***	5-SPAK	1384.50/750		
MIC49300WR	576-1229-ND	Adj., 3.0A Low Voltage LDO Reg.	5-SPAK	4.93	3.95	3.07
MIC49500WR	576-1466-1-ND	5A Dual Supply Low Volt. High Bandwidth LDO ***NEW!***	7-SPAK	7.80	6.24	5.27
MIC49500WR	576-1466-2-ND	5A Dual Supply Low Volt. High Bandwidth LDO ***NEW!***	7-SPAK	3714.75/750		
MIC68200-1.8YMLTR	576-1469-1-ND	1.8V, 2A Sequencing LDO ***NEW!***	10-MLF	3.22	2.58	2.01
MIC68200-1.8YMLTR	576-1469-2-ND	1.8V, 2A Sequencing LDO ***NEW!***	10-MLF	8940.00/5,000		

MOSFET DRIVERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC4100YM	576-1183-ND	100V Half Bridge MOSFET Driver	8-SOIC	4.03	3.23	2.51
MIC4102YM	576-1184-ND	100V Half Bridge MOSFET Driver	8-SOIC	4.48	3.59	2.79
MIC4120YME	576-1445-ND	6A Peak Low Side MOSFET Driver ***NEW!***	8-SOIC	2.61	2.09	1.63
MIC4123YME	576-1447-ND	Dual 3A Peak Low Side MOSFET Driver ***NEW!***	8-SOIC	2.70	2.16	1.68
MIC4124YME	576-1448-ND	Dual 3A Peak Low Side MOSFET Driver ***NEW!***	8-SOIC	2.70	2.16	1.68
MIC4125YME	576-1449-ND	Dual 3A Peak Low Side MOSFET Driver ***NEW!***	8-SOIC	2.70	2.16	1.68
MIC4126YME	576-1185-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	2.32	1.86	1.45
MIC4127YME	576-1186-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	2.32	1.86	1.45
MIC4128YME	576-1450-ND	Dual 1.5A Peak Low Side MOSFET Driver ***NEW!***	8-SOIC	2.86	2.29	1.78
MIC4129YME	576-1446-ND	6A Peak Low Side MOSFET Driver ***NEW!***	8-SOIC	2.61	2.09	1.63
MIC4416YM4 TR	576-1187-1-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	.96	.80	.64
MIC4416YM4 TR	576-1187-2-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	1248.00/3,000		
MIC4417YM4 TR	576-1188-1-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	.96	.80	.64
MIC4417YM4 TR	576-1188-2-ND	IttyBitty™ Low-Side MOSFET Driver	SOT-143	1248.00/3,000		
MIC4420YM TR	576-1189-1-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.44	1.20	.96
MIC4420YM TR	576-1189-2-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1560.00/2,500		
MIC4420YN	576-1190-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	1.95	1.56	1.17
MIC4420ZM	576-1191-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.55	1.24	.93
MIC4420ZN	576-1192-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	1.85	1.48	1.11
MIC4421YM	576-1193-ND	9A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.73	1.38	1.04
MIC4422YM TR	576-1194-1-ND	9A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1.33	1.06	.80
MIC4422YM TR	576-1194-2-ND	9A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	1695.00/2,500		
MIC4422YN	576-1195-ND	9A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	1.58	1.26	.95
MIC4423YN	576-1196-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.43	1.95	1.52
MIC4423ZN	576-1197-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.30	1.84	1.43
MIC4424YM	576-1198-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-SOIC	2.79	2.24	1.74
MIC4424YN	576-1199-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.93	2.34	1.82
MIC4424ZN	576-1200-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.30	1.84	1.43
MIC4425YN	576-1201-ND	Dual 3A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	2.43	1.95	1.52
MIC4426YM TR	576-1202-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.35	1.13	.90
MIC4426YM TR	576-1202-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1462.50/2,500		
MIC4426YN	576-1203-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-Dip	1.95	1.56	1.17
MIC4427YM TR	576-1204-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.44	1.20	.96
MIC4427YM TR	576-1204-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1560.00/2,500		
MIC4427YN	576-1205-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-Dip	1.95	1.56	1.17
MIC4428YM TR	576-1206-1-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1.26	1.05	.84
MIC4428YM TR	576-1206-2-ND	Dual 1.5A Peak Low-Side MOSFET Driver	8-SOIC	1365.00/2,500		
MIC4429ZN	576-1207-ND	6A Peak Low-Side MOSFET Driver Bipolar/CMOS/DMOS Process	8-Dip	1.85	1.48	1.11
MIC4451YM	576-1208-ND	12A Peak Low-Side MOSFET Driver	8-SOIC	2.28	1.82	1.37
MIC4451YN	576-1209-ND	12A Peak Low-Side MOSFET Driver	8-Dip	2.45	1.97	1.53
MIC4452YM TR	576-1210-1-ND	12A Peak Low-Side MOSFET Driver	8-SOIC	1.68	1.34	1.01
MIC4452YM TR	576-1210-2-ND	12A Peak Low-Side MOSFET Driver	8-SOIC	2145.00/2,500		
MIC4452YN	576-1211-ND	12A Peak Low-Side MOSFET Driver	8-Dip	2.45	1.97	1.53
MIC4452ZT	576-1212-ND	12A Peak Low-Side MOSFET Driver	TO-220-5	4.46	3.57	2.78
MIC4468ZWM	576-1213-ND	Quad 1.2A Peak Low-Side MOSFET Driver	16-SOIC	4.01	3.21	2.50
MIC4469YN	576-1214-ND	Quad 1.2A Peak Low-Side MOSFET Driver	14-Dip	4.21	3.37	2.62
MIC4469YWM	576-1215-ND	Quad 1.2A Peak Low-Side MOSFET Driver	16-SOIC	4.21	3.37	2.62
MIC5011YM	576-1230-ND	Minimum Parts High/Low-Side MOSFET Driver	8-SOIC	3.51	2.81	2.19
MIC5013YM	576-1231-ND	Protected High/Low-Side MOSFET Driver	8-SOIC	3.51	2.81	2.19
MIC5013YN	576-1232-ND	Protected High/Low-Side MOSFET Driver	8-Dip	4.21	3.37	2.62
MIC5014YM TR	576-1233-1-ND	High/Low-Side MOSFET Driver	8-SOIC	2.40	1.92	1.44
MIC5014YM TR	576-1233-2-ND	High/Low-Side MOSFET Driver	8-SOIC	3072.50/2,500		
MIC5014YN	576-1234-ND	High/Low-Side MOSFET Driver	8-Dip	2.59	2.07	1.61
MIC5015YM	576-1235-ND	High/Low-Side MOSFET Driver	8-SOIC	2.40	1.92	1.44
MIC5018YM4 TR	576-1238-1-ND	IttyBitty™ High-Side MOSFET Driver	SOT-143	1.80	1.44	1.08
MIC5018YM4 TR	576-1238-2-ND	IttyBitty™ High-Side MOSFET Driver	SOT-143	2766.00/3,000		
MIC5021YM TR	576-1239-1-ND	High Speed, High-Side MOSFET Driver	8-SOIC	2.48	1.98	1.54
MIC5021YM TR	576-1239-2-ND	High Speed, High-Side MOSFET Driver	8-SOIC	3465.00/2,500		
MIC5021YN	576-1240-ND	High Speed, High-Side MOSFET Driver	8-Dip	2.50	2.00	1.56

OPERATIONAL AMPS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC6211YM5 TR	576-1314-1-ND	IttyBitty™ Operational Amp	SOT-23-5	.96	.72	.54
MIC6211YM5 TR	576-1314-2-ND	IttyBitty™ Operational Amp	SOT-23-5	936.00/3,000		
MIC7122YMM TR	576-1317-1-ND	Rail-to-Rail Dual Op Amp	8-MSOP	1.44	1.20	.96
MIC7122YMM TR	576-1317-2-ND	Rail-to-Rail Dual Op Amp	8-MSOP	1560.00/2,500		
MIC7300YM5 TR	576-1319-1-ND	High Output Driver R/R Op Amp	SOT-23-5	.78	.65	.52
MIC7300YM5 TR	576-1319-2-ND	High Output Driver R/R Op Amp	SOT-23-5	1014.00/3,000		

POWER SWITCHES

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2514YM5 TR	576-1085-1-ND	IttyBitty™ Integrated High-Side Switch ***NEW!***	SOT-23-5	2.23	1.78	1.34
MIC2514YM5 TR	576-1085-2-ND	IttyBitty ™ Integrated High-Side Switch ***NEW!***	SOT-23-5	3417.00/3,000		
MIC2562A-0YM TR	576-1089-1-ND	PCMCIA/CardBus Socket Power Controller	14-SOIC	1.65	1.32	.99
MIC2562A-0YM TR	576-1089-2-ND	PCMCIA/CardBus Socket Power Controller	14-SOIC	2112.50/2,500		
MIC2562A-1YM	576-1090-ND	PCMCIA/CardBus Socket Power Controller	14-SOIC	1.65	1.32	.99
MIC2563A-1YSM	576-1091-ND	Dual-Slot PCMCIA/CardBus Power Controller	28-SSOP	2.43	1.95	1.52

REFERENCES

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4040CYM3-2.5 TR	576-1046-1-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	.60	.45	.34
LM4040CYM3-2.5 TR	576-1046-2-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	585.00/3,000		
LM4040DYM3-2.5 TR	576-1047-1-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	.48	.36	.27
LM4040DYM3-2.5 TR	576-1047-2-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	468.00/3,000		
LM4040DYM3-4.1 TR	576-1048-1-ND	4.096V, Precision Micropower Shunt Voltage Reference	SOT-23	.48	.36	.27
LM4040DYM3-4.1 TR	576-1048-2-ND	4.096V, Precision Micropower Shunt Voltage Reference	SOT-23	468.00/3,000		
LM4041CYM3-ADJ TR	576-1049-1-ND	1.24V to 10V, Precision Micropower Shunt Voltage Reference	SOT-23	.60	.45	.34
LM4041CYM3-ADJ TR	576-1049-2-ND	1.24V to 10V, Precision Micropower Shunt Voltage Reference	SOT-23	585.00/3,000		

REGULATORS

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2576WT	576-1045-ND	52kHz Simple 3A Buck Regulator	TO-220-5	3.06	2.45	1.91
MIC38C43YM	576-1168-ND	BiCMOS Current Mode PWM Controller*	8-SOIC	2.15	1.72	1.29
MIC38HC43YM TR	576-1169-1-ND	BiCMOS 1A Current Mode PWM Controller*	8-SOIC	2.34	1.88	1.46
MIC38HC43YM TR	576-1169-2-ND	BiCMOS 1A Current Mode PWM Controller*	8-SOIC	3275.00/2,500		
MIC2142YM5 TR	576-1062-1-ND	Adj., Micropower Boost Converter*	SOT-23-5	1.68	1.34	1.01
MIC2142YM5 TR	576-1062-2-ND	Adj., Micropower Boost Converter*	SOT-23-5	2574.00/3,000		
MIC2171WU	576-1063-ND	100kHz, 2.5A, Switching Regulator*	TO-263-5	4.10	3.28	2.55
MIC2172YM TR	576-1064-1-ND	100kHz, 1.25A, Switching Regulator*	8-SOIC	2.34	1.88	1.46
MIC2172YM TR	576-1064-2-ND	100kHz, 1.25A, Switching Regulator*	8-SOIC	3275.00/2,500		
MIC2177YWM	576-1065-ND	Adj., 2.5A Sync. Buck Regulator*	20-SOIC	7.16	5.73	4.84
MIC2178YWM	576-1066-ND	Adj., 2.5A Sync. Buck Regulator*	20-WSOIC	7.16	5.73	4.84
MIC2179YSM	576-1067-ND	Adj., 1.5A Sync. Buck Regulator*	20-SSOP	6.52	5.22	4.41

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

MICREL — REGULATORS *(Continued)*

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2182YM	576-1068-ND	Adj., High-Efficiency Sync. Buck Controller*	16-SOIC	4.68	3.75	2.92
MIC2182YSM	576-1069-ND	Adj., High-Efficiency Sync. Buck Controller*	16-SSOP	4.88	3.91	3.04
MIC2204YML TR	576-1070-1-ND	Adj., High-Efficiency 2MHz Sync. Buck Controller*	10-MLF	2.79	2.24	1.74
MIC2204YML TR	576-1070-2-ND	Adj., High-Efficiency 2MHz Sync. Buck Controller*	10-MLF	7750.00/5,000		
MIC2204YMM TR	576-1071-1-ND	Adj., High-Efficiency 2MHz Sync. Buck Controller*	10-MSOP	2.59	2.07	1.61
MIC2204YMM TR	576-1071-2-ND	Adj., High-Efficiency 2MHz Sync. Buck Controller*	10-MSOP	3622.50/2,500		
MIC2205YML TR	576-1072-1-ND	Adj., 2MHz PWM Sync. Buck Reg.*	10-MLF	2.84	2.27	1.77
MIC2205YML TR	576-1072-2-ND	Adj., 2MHz PWM Sync. Buck Reg.*	10-MLF	7875.00/5,000		
MIC2207YML TR	576-1441-1-ND	2MHz, 3A PWM Buck Reg.* ***NEW!***	12-MLF	3.62	2.90	2.26
MIC2207YML TR	576-1441-2-ND	2MHz, 3A PWM Buck Reg.* ***NEW!***	12-MLF	10065.00/5,000		
MIC2288YML TR	576-1075-1-ND	Adj., 1A, 1.2MHz PWM Boost Reg.*	8-MLF	1.78	1.42	1.07
MIC2288YML TR	576-1075-2-ND	Adj., 1A, 1.2MHz PWM Boost Reg.*	8-MLF	4440.00/5,000		
MIC2290YML TR	576-1076-1-ND	Adj., 2x2mm PWM Boost Regulator*	8-MLF	2.10	1.68	1.26
MIC2290YML TR	576-1076-2-ND	Adj., 2x2mm PWM Boost Regulator*	8-MLF	5250.00/5,000		
MIC2295YD5 TR	576-1080-1-ND	High Power Density 1.2A Boost Reg.*	5-TSOT	2.08	1.66	1.25
MIC2295YD5 TR	576-1080-2-ND	High Power Density 1.2A Boost Reg.*	5-TSOT	3186.00/3,000		
MIC3172YM	576-1160-ND	100kHz, 1.25A, Switching Regulator*	8-SOIC	2.99	2.40	1.87
MIC4575-5.0WU	576-1216-ND	5V, 200kHz Simple 1A Buck Reg.*	TO-263-5	3.42	2.74	2.13
MIC4575WU	576-1217-ND	Adj., 200kHz Simple 1A Buck Reg.*	TO-263-5	3.42	2.74	2.13
MIC4576WT	576-1218-ND	Adj., 200kHz Simple 3A Buck Reg.*	TO-220-5	3.38	2.70	2.10
MIC4576WU TR	576-1219-1-ND	Adj., 200kHz Simple 3A Buck Reg.*	TO-263-5	3.53	2.83	2.20
MIC4576WU TR	576-1219-2-ND	Adj., 200kHz Simple 3A Buck Reg.*	TO-263-5	1530.75/750		
MIC4680-3.3YM	576-1220-ND	3.3V, 1A, 200kHz SuperSwitcher™ Buck Regulator*	8-SOIC	3.17	2.54	1.98
MIC4680-5.0YM TR	576-1221-1-ND	5V, 1A, 200kHz SuperSwitcher™ Buck Regulator*	8-SOIC	3.17	2.54	1.98
MIC4680-5.0YM TR	576-1221-2-ND	5V, 1A, 200kHz SuperSwitcher™ Buck Regulator*	8-SOIC	4442.50/2,500		
MIC4680YM TR	576-1222-1-ND	Adj., 1A, 200kHz SuperSwitcher™ Buck Regulator*	8-SOIC	3.17	2.54	1.98
MIC4680YM TR	576-1222-2-ND	Adj., 1A, 200kHz SuperSwitcher™ Buck Regulator*	8-SOIC	4442.50/2,500		
MIC4684YM	576-1223-ND	Adj., 2A High-Efficiency SuperSwitcher™ Buck Regulator*	8-SOIC	3.51	2.81	2.19
MIC4685WR	576-1224-ND	Adj., 3A SPAK SuperSwitcher™ Buck Reg.*	7-SPAK	4.07	3.26	2.54
MIC4690YM	576-1225-ND	Adj., 500kHz, 1A SuperSwitcher™ Buck Regulator*	8-SOIC	3.44	2.76	2.15

* ***RoHS Compliant***

MICREL — SUPERVISORS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC708TYM TR	576-1316-1-ND	µP Supervisory Circuit	8-SOIC	1.70	1.36	1.02
MIC708TYM TR	576-1316-2-ND	µP Supervisory Circuit	8-SOIC	2175.00/2,500		
MIC809RUY TR	576-1321-1-ND	2.63V Microprocessor Reset Circuit	SOT-23	.56	.42	.32
MIC809RUY TR	576-1321-2-ND	2.63V Microprocessor Reset Circuit	SOT-23	546.00/3,000		
MIC809RYC3 TR	576-1442-1-ND	2.63V Microprocessor Reset Circuit ***NEW!***	SC70	1.05	.88	.70
MIC809RYC3 TR	576-1442-2-ND	2.63V Microprocessor Reset Circuit ***NEW!***	SC70	1365.00/3,000		
MIC810RYC3 TR	576-1443-1-ND	2.63V Microprocessor Reset Circuit ***NEW!***	SC70	1.05	.88	.70
MIC810RYC3 TR	576-1443-2-ND	2.63V Microprocessor Reset Circuit ***NEW!***	SC70	1365.00/3,000		
MIC811LUY TR	576-1324-1-ND	4.63V Microprocessor Reset Circuit	SOT-143	.96	.72	.54
MIC811LUY TR	576-1324-2-ND	4.63V Microprocessor Reset Circuit	SOT-143	936.00/3,000		
MIC811SUY TR	576-1325-1-ND	2.93V Microprocessor Reset Circuit	SOT-143	.96	.72	.54
MIC811SUY TR	576-1325-2-ND	2.93V Microprocessor Reset Circuit	SOT-143	936.00/3,000		
MIC811TUY TR	576-1326-1-ND	3.08V Microprocessor Reset Circuit	SOT-143	.96	.72	.54
MIC811TUY TR	576-1326-2-ND	3.08V Microprocessor Reset Circuit	SOT-143	936.00/3,000		
MIC1232MY TR	576-1053-1-ND	µP Supervisory Circuit	8-SOIC	1.23	1.03	.82
MIC1232MY TR	576-1053-2-ND	µP Supervisory Circuit	8-SOIC	1332.50/2,500		
MIC1232YN	576-1054-ND	µP Supervisory Circuit	8-PDip	1.73	1.38	1.04
MIC1815-10UY TR	576-1056-1-ND	Microprocessor Reset Circuit	SOT-23	.93	.78	.62
MIC1815-10UY TR	576-1056-2-ND	Microprocessor Reset Circuit	SOT-23	1209.00/3,000		
MIC2772-L3L3BML TR	576-1444-1-ND	Dual Voltage Supervisor ***NEW!***	8-MLF	1.55	1.24	.93
MIC2772-L3L3BML TR	576-1444-2-ND	Dual Voltage Supervisor ***NEW!***	8-MLF	3875.00/5,000		
MIC2774N-29YM5 TR	576-1101-1-ND	2.93V, Dual µP Low Volt. Supervisor	SOT-23-5	1.35	1.13	.90
MIC2774N-29YM5 TR	576-1101-2-ND	2.93V, Dual µP Low Volt. Supervisor	SOT-23-5	1755.00/3,000		
MIC2774N-31YM5 TR	576-1102-1-ND	3.09V, Dual µP Low Volt. Supervisor	SOT-23-5	1.35	1.13	.90
MIC2774N-31YM5 TR	576-1102-2-ND	3.09V, Dual µP Low Volt. Supervisor	SOT-23-5	1755.00/3,000		
MIC2776N-YM5 TR	576-1103-1-ND	µP Low Voltage Supervisor	SOT-23-5	1.26	1.05	.84
MIC2776N-YM5 TR	576-1103-2-ND	µP Low Voltage Supervisor	SOT-23-5	1638.00/3,000		
MIC8114TUY TR	576-1322-1-ND	3.08V Microprocessor Reset Circuit	SOT-143	.80	.60	.45
MIC8114TUY TR	576-1322-2-ND	3.08V Microprocessor Reset Circuit	SOT-143	780.00/3,000		
MIC8115TUY TR	576-1323-1-ND	3.08V Microprocessor Reset Circuit	SOT-143	.80	.60	.45
MIC8115TUY TR	576-1323-2-ND	3.08V Microprocessor Reset Circuit	SOT-143	780.00/3,000		

MICREL — TIMERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC1557YM5 TR	576-1055-1-ND	IttyBitty™ RC Timer/Oscillator	SOT-23-5	.99	.83	.66
MIC1557YM5 TR	576-1055-2-ND	IttyBitty™ RC Timer/Oscillator	SOT-23-5	1287.00/3,000		

MICREL — USB TRANSCEIVERS

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2555-0YML TR	576-1087-1-ND	USB - OTG Transceiver	24-MLF	3.53	2.83	2.20
MIC2555-0YML TR	576-1087-2-ND	USB - OTG Transceiver	24-MLF	9815.00/5,000		
MIC2555-1YML TR	576-1088-1-ND	USB - OTG Transceiver	24-MLF	3.53	2.83	2.20
MIC2555-1YML TR	576-1088-2-ND	USB - OTG Transceiver	24-MLF	9815.00/5,000		

MICREL — USB/GENERAL PURPOSE SWITCHES

RoHS Compliant

Micrel Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MIC2007YM6TR	576-1460-1-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1.65	1.32	.99
MIC2007YM6TR	576-1460-2-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	2535.00/3,000		
MIC2008YM6TR	576-1461-1-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1.65	1.32	.99
MIC2008YM6TR	576-1461-2-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	2535.00/3,000		
MIC2017YM6TR	576-1462-1-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1.93	1.54	1.16
MIC2017YM6TR	576-1462-2-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	2958.00/3,000		
MIC2018YM6TR	576-1463-1-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	1.93	1.54	1.16
MIC2018YM6TR	576-1463-2-ND	Adj. Current Limit Power Distribution Switch ***NEW!***	SOT-23-6	2958.00/3,000		
MIC2025-1YM	576-1057-ND	Single-Channel Power Distribution Switch MM8®	8-SOIC	1.08	.86	.65
MIC2025-2YM	576-1058-ND	Single-Channel Power Distribution Switch MM8®	8-SOIC	1.08	.86	.65
MIC2026-1YM TR	576-1059-1-ND	Dual-Ch. Power Distribution Switch	8-SOIC	.95	.76	.57
MIC2026-1YM TR	576-1059-2-ND	Dual-Ch. Power Distribution Switch	8-SOIC	1215.00/2,500		
MIC2026-2YM TR	576-1060-1-ND	Dual-Ch. Power Distribution Switch	8-SOIC	.95	.76	.57
MIC2026-2YM TR	576-1060-2-ND	Dual-Ch. Power Distribution Switch	8-SOIC	1215.00/2,500		
MIC2076-2YM	576-1061-ND	Dual-Ch. Power Distribution Switch	8-SOIC	2.08	1.66	1.25
MIC2505-1YM	576-1081-ND	Single 2A High-Side Switch	8-SOIC	2.15	1.72	1.29
MIC2505-2YM	576-1082-ND	Single 2A High-Side Switch	8-SOIC	2.15	1.72	1.29
MIC2505YM	576-1083-ND	Single 2A High-Side Switch	8-SOIC	2.15	1.72	1.29
MIC2506YM	576-1084-ND	Single 1A High-Side Switch	8-SOIC	3.11	2.49	1.94
MIC2545A-1YM	576-1086-ND	Programmable Current Limit High-Side Switch	8-SOIC	2.75	2.20	1.71

ON Semiconductor™ — INTEGRATED CIRCUITS

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CS1112YDWFR24	CS1112YDWFR24OSCT-ND	Quad Power Output Driver	24-SOIC	6.54	5.24	4.42
CS1112YDWFR24	CS1112YDWFR24OSTR-ND	Quad Power Output Driver	24-SOIC	4088.00/1,000		
CS5124XDR8G	CS5124XDR8GOSCT-ND	HP, IC Mode PWM Controller*	8-SOIC	3.16	2.75	2.05
CS5124XDR8G	CS5124XDR8GOSTR-ND	HP, IC Mode PWM Controller*	8-SOIC	3745.00/2,500		
CS5171EDR8	CS5171EDR8OSCT-ND	1.5A, 280KHz Positive Boost Regulator	8-SOIC	2.36	1.89	1.60
CS5171EDR8	CS5171EDR8OSTR-ND	1.5A, 280KHz Positive Boost Reg.	8-SOIC	3717.50/2,500		
CS5171EDR8G	CS5171EDR8GOSCT-ND	1.5A, 280KHz Positive Boost Reg.*	8-SOIC	2.76	2.30	1.94
CS5171EDR8G	CS5171EDR8GOSTR-ND	1.5A, 280KHz Positive Boost Reg.*	8-SOIC	2990.00/2,500		
CS5171GDR8	CS5171GDR8OSCT-ND	1.5A, 280KHz Positive Boost Reg.	8-SOIC	2.32	1.86	1.57
CS5171GDR8	CS5171GDR8OSTR-ND	1.5A, 280KHz Positive Boost Reg.	8-SOIC	3655.00/2,500		
CS5171GDR8G	CS5171GDR8GOSCT-ND	1.5A, 280KHz Positive Boost Reg.*	8-SOIC	2.70	2.25	1.89
CS5171GDR8G	CS5171GDR8GOSTR-ND	1.5A, 280KHz Positive Boost Reg.*	8-SOIC	2925.00/2,500		
CS5172EDR8	CS5172EDR8OSCT-ND	1.5A, 280KHz Negative Boost Reg.	8-SOIC	2.36	1.89	1.60
CS5172EDR8	CS5172EDR8OSTR-ND	1.5A, 280KHz Negative Boost Reg.	8-SOIC	3717.50/2,500		
CS5172EDR8G	CS5172EDR8GOSCT-ND	1.5A, 280KHz Negative Boost Reg.*	8-SOIC	2.76	2.30	1.94
CS5172EDR8G	CS5172EDR8GOSTR-ND	1.5A, 280KHz Negative Boost Reg.*	8-SOIC	2990.00/2,500		
CS5172GDR8	CS5172GDR8OSCT-ND	1.5A, 280KHz Negative Boost Reg.	8-SOIC	2.32	1.86	1.57
CS5172GDR8	CS5172GDR8OSTR-ND	1.5A, 280KHz Negative Boost Reg.	8-SOIC	3655.00/2,500		
CS5172GDR8G	CS5172GDR8GOSCT-ND	1.5A, 280KHz Negative Boost Reg.*	8-SOIC	2.70	2.25	1.89
CS5172GDR8G	CS5172GDR8GOSTR-ND	1.5A, 280KHz Negative Boost Reg.*	8-SOIC	2925.00/2,500		
CS5173EDR8	CS5173EDR8OSCT-ND	1.5A, 560KHz Positive Boost Reg.	8-SOIC	2.36	1.89	1.60
CS5173EDR8	CS5173EDR8OSTR-ND	1.5A, 560KHz Positive Boost Reg.	8-SOIC	3717.50/2,500		
CS5173EDR8G	CS5173EDR8GOSCT-ND	1.5A, 560KHz Positive Boost Reg.*	8-SOIC	2.76	2.30	1.94
CS5173EDR8G	CS5173EDR8GOSTR-ND	1.5A, 560KHz Positive Boost Reg.*	8-SOIC	2990.00/2,500		
CS5173GDR8	CS5173GDR8OSCT-ND	1.5A, 560KHz Positive Boost Reg.	8-SOIC	2.32	1.86	1.57
CS5173GDR8	CS5173GDR8OSTR-ND	1.5A, 560KHz Positive Boost Reg.	8-SOIC	3655.00/2,500		
CS5173GDR8G	CS5173GDR8GOSCT-ND	1.5A, 560KHz Positive Boost Reg.*	8-SOIC	2.10	1.75	1.47
CS5173GDR8G	CS5173GDR8GOSTR-ND	1.5A, 560KHz Positive Boost Reg.*	8-SOIC	2275.00/2,500		
CS5174EDR8	CS5174EDR8OSCT-ND	1.5A, 560KHz Negative Boost Reg.	8-SOIC	2.36	1.89	1.60
CS5174EDR8	CS5174EDR8OSTR-ND	1.5A, 560KHz Negative Boost Reg.	8-SOIC	3717.50/2,500		
CS5174EDR8G	CS5174EDR8GOSCT-ND	1.5A, 560KHz Negative Boost Reg.*	8-SOIC	2.76	2.30	1.94
CS5174EDR8G	CS5174EDR8GOSTR-ND	1.5A, 560KHz Negative Boost Reg.*	8-SOIC	2990.00/2,500		
CS5174GDR8	CS5174GDR8OSCT-ND	1.5A, 560KHz Negative Boost Reg.	8-SOIC	2.32	1.86	1.57
CS5174GDR8	CS5174GDR8OSTR-ND	1.5A, 560KHz Negative Boost Reg.	8-SOIC	3655.00/2,500		
CS5174GDR8G	CS5174GDR8GOSCT-ND	1.5A, 560KHz Negative Boost Reg.*	8-SOIC	2.70	2.25	1.89
CS5174GDR8G	CS5174GDR8GOSTR-ND	1.5A, 560KHz Negative Boost Reg.*	8-SOIC	2925.00/2,500		
CS5211EDR14	CS5211EDR14OSCT-ND	Low Voltage Sync. Buck Controller	14-SOIC	2.72	2.18	1.70
CS5211EDR14	CS5211EDR14OSTR-ND	Low Voltage Sync. Buck Controller	14-SOIC	3812.50/2,500		
CS5211EDR14G	CS5211EDR14GOSCT-ND	Low Voltage Sync. Buck Controller*	14-SOIC	2.55	2.13	1.79
CS5211EDR14G	CS5211EDR14GOSTR-ND	Low Voltage Sync. Buck Controller*	14-SOIC	2762.50/2,500		
CS5211GDR14	CS5211GDR14OSCT-ND	Low Voltage Sync. Buck Controller	14-SOIC	2.68	2.15	1.67
CS5211GDR14	CS5211GDR14OSTR-ND	Low Voltage Sync. Buck Controller	14-SOIC	3747.50/2,500		
CS5211GDR14G	CS5211GDR14GOSCT-ND	Low Voltage Sync. Buck Controller*	14-SOIC	2.49	2.08	1.75
CS5211GDR14G	CS5211GDR14GOSTR-ND	Low Voltage Sync. Buck Controller*	14-SOIC	2697.50/2,500		
CS5212EDR14	CS5212EDR14OSCT-ND	Low Voltage Sync. Buck Controller	14-SOIC	2.72	2.18	1.70
CS5212EDR14	CS5212EDR14OSTR-ND	Low Voltage Sync. Buck Controller	14-SOIC	3812.50/2,500		
CS5212GDR14	CS5212GDR14OSCT-ND	Low Voltage Sync. Buck Controller	14-SOIC	2.68	2.15	1.67
CS5212GDR14	CS5212GDR14OSTR-ND	Low Voltage Sync. Buck Controller	14-SOIC	3747.50/2,500		
CS5301GDWR32	CS5301GDWR32OSCT-ND	Three-Phase Buck Controller with Integrated Gate Drivers/Power Good	32-SOIC	5.10	4.59	4.07
CS5301GDWR32	CS5301GDWR32OSTR-ND	Three-Phase Buck Controller with Integrated Gate Drivers/Power Good	32-SOIC	3825.00/1,000		
CS8101YDR8	CS8101YDR8OSCT-ND	Micropower 5V, 100mA LDO Reg.	8-SOIC	2.32	1.86	1.45
CS8101YDR8G	CS8101YDR8GOSCT-ND	Micropower 5V, 100mA LDO Reg.*	8-SOIC	2.78	2.43	1.81
CS8101YDR8G	CS8101YDR8GOSTR-ND	Micropower 5V, 100mA LDO Reg.*	8-SOIC	3295.00/2,500		
CS8101YDWFR20	CS8101YDWFR20OSCT-ND	Micropower 5V, 100mA LDO Reg.	20-SOIC	3.67	2.94	2.29
CS8101YDWFR20	CS8101YDWFR20OSTR-ND	Micropower 5V, 100mA LDO Reg.	20-SOIC	2078.00/1,000		
CS8101YDWFR20G	CS8101YDWFR20GOSCT-ND	Micropower 5V, 100mA LDO Reg.*	20-SOIC	4.40	3.84	2.86
CS8101YDWFR20G	CS8101YDWFR20GOSTR-ND	Micropower 5V, 100mA LDO Reg.*	20-SOIC	2168.00/1,000		
CS8101YT5	CS8101YT5OS-ND	Micropower 5V, 100mA LDO Reg.	TO-220-5	4.70	3.77	2.93
CS8101YT5G	CS8101YT5GOS-ND	Micropower 5V, 100mA LDO Reg.*	TO-220-5	5.64	4.92	3.66
CS8101YTHA5	CS8101YTHA5OS-ND	Micropower 5V, 100mA LDO Reg.	TO-220-5	4.52	3.62	2.82
CS8101YTHA5G	CS8101YTHA5GOS-ND	Micropower 5V, 100mA LDO Reg.*	TO-220-5	5.43	4.73	3.52
CS8101YTVA5	CS8101YTVA5OS-ND	Micropower 5V, 100mA LDO Reg.	TO-220-5	4.52	3.62	2.82
CS8101YTVA5G	CS8101YTVA5GOS-ND	Micropower 5V, 100mA LDO Reg.*	TO-220-5	5.43	4.73	3.52

* ***RoHS Compliant***

(Continued)

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
CS8120YDPR5	CS8120YDPR5OSCT-ND	5V, 300mA Linear Regulator	D2-PAK	4.21	3.37	2.62
CS8120YDR14	CS8120YDR14OSCT-ND	5V, 300mA Linear Regulator	14-SOIC	3.58	2.87	2.23
CS8120YDR14	CS8120YDR14OSTR-ND	5V, 300mA Linear Regulator	14-SOIC	5007.50/2,500		
CS8120YN8	CS8120YN8OS-ND	5V, 300mA Linear Regulator	8-Dip	3.47	2.78	2.16
CS8120YT5	CS8120YT5OS-ND	5V, 300mA Linear Regulator	TO-220	4.48	3.59	2.79
CS8120YTHA5	CS8120YTHA5OS-ND	5V, 300mA Linear Regulator	TO-220	5.09	4.07	3.17
CS8120YTVA5	CS8120YTVA5OS-ND	5V, 300mA Linear Regulator	TO-220	5.09	4.07	3.17
CS8126-1YT5	CS8126-1YT5OS-ND	5V, 750mA LDO Linear Regulator	TO-220-5	3.56	2.85	2.22
CS8126-1YT5G	CS8126-1YT5GOS-ND	5V, 750mA LDO Linear Regulator*	TO-220-5	4.27	3.72	2.77
CS8151CGN8	CS8151CGN8OS-ND	5V, 100mA LDO Linear Reg.	8-Dip	3.02	2.42	1.88
CS8151CGN8G	CS8151CGN8GOS-ND	5V, 100mA LDO Linear Reg.*	8-Dip	3.62	3.15	2.35
CS8151YDPSR7	CS8151YDPSR7OSCT-ND	5V, 100mA LDO Linear Regulator	D2-PAK	5.60	4.48	3.78
CS8151YDPSR7	CS8151YDPSR7OSTR-ND	5V, 100mA LDO Linear Regulator	D2-PAK	2667.00/750		
CS8151YDWFR16	CS8151YDWFR16OSCT-ND	5V, 100mA LDO Linear Reg.	16-SOIC	4.91	3.93	3.06
CS8151YDWFR16	CS8151YDWFR16OSTR-ND	5V, 100mA LDO Linear Reg.	16-SOIC	2780.00/1,000		
CS8151YDWFR16G	CS8151YDWFR16GOSCT-ND	5V, 100mA LDO Linear Reg.*	16-SOIC	5.89	5.13	3.82
CS8151YDWFR16G	CS8151YDWFR16GOSTR-ND	5V, 100mA LDO Linear Reg.*	16-SOIC	2899.00/1,000		
CS8151YNF16	CS8151YNF16OS-ND	5V, 100mA LDO Linear Reg.	16-Dip	5.13	4.11	3.20
CS8151YNF16G	CS8151YNF16GOS-ND	5V, 100mA LDO Linear Reg.*	16-Dip	6.16	5.36	3.99
CS8151YT7	CS8151YT7OS-ND	5V, 100mA LDO Linear Reg.	TO-220-7	4.46	3.57	2.78
CS8151YT7G	CS8151YT7GOS-ND	5V, 100mA LDO Linear Reg.*	TO-220-7	5.35	4.66	3.47
CS8151YTHA7	CS8151YTHA7OS-ND	5V, 100mA LDO Linear Reg.	TO-220-7	4.91	3.93	3.06
CS8151YTHA7G	CS8151YTHA7GOS-ND	5V, 100mA LDO Linear Reg.*	TO-220-7	5.89	5.13	3.82
CS8151YTVA7	CS8151YTVA7OS-ND	5V, 100mA LDO Linear Reg.	TO-220-7	4.91	3.93	3.06
CS8151YTVA7G	CS8151YTVA7GOS-ND	5V, 100mA LDO Linear Reg.*	TO-220-7	5.89	5.13	3.82
CS8190ENF16G	CS8190ENF16GOS-ND	Air-Core Tach/Speedo Driver*	16-Dip	4.24	3.69	2.75
CS8361YDPSR7	CS8361YDPSR7OSCT-ND	5V Dual Micropower LDO Regulator	D2-PAK	4.21	3.37	2.62
CS8361YDPSR7	CS8361YDPSR7OSTR-ND	5V Dual Micropower LDO Regulator	D2-PAK	1823.25/750		
CS8361YDWFR16	CS8361YDWFR16OSCT-ND	5V Dual Micropower LDO Regulator	16-SOIC	4.21	3.37	2.62
CS8361YDWFR16	CS8361YDWFR16OSTR-ND	5V Dual Micropower LDO Regulator	16-SOIC	2384.00/1,000		
CS8361YDWFR16G	CS8361YDWFR16GOSCT-ND	5V Dual Micropower LDO Regulator*	16-SOIC	5.05	4.40	3.28
CS8361YDWFR16G	CS8361YDWFR16GOSTR-ND	5V Dual Micropower LDO Regulator*	16-SOIC	2487.00/1,000		
CS9201YDFR8	CS9201YDFR8OSCT-ND	Micropower 5V, 100mA LDO Linear Regulator	8-SOIC	2.66	2.13	1.66
CS9201YDFR8	CS9201YDFR8OSTR-ND	Micropower 5V, 100mA LDO Linear Regulator	8-SOIC	3717.50/2,500		
CS9201YDFR8G	CS9201YDFR8GOSCT-ND	Micropower 5V, 100mA LDO Linear Regulator*	8-SOIC	3.19	2.78	2.07
CS9201YDFR8G	CS9201YDFR8GOSTR-ND	Micropower 5V, 100mA LDO Linear Regulator*	8-SOIC	3775.00/2,500		
CS9202YDFR8	CS9202YDFR8OSCT-ND	3.3V, 100mA LDO Linear Regulator	8-SOIC	2.66	2.13	1.66
CS9202YDFR8	CS9202YDFR8OSTR-ND	3.3V, 100mA LDO Linear Regulator	8-SOIC	3717.50/2,500		
CS9202YDFR8G	CS9202YDFR8GOSCT-ND	3.3V, 100mA LDO Linear Regulator*	8-SOIC	3.19	2.78	2.07
CS9202YDFR8G	CS9202YDFR8GOSTR-ND	3.3V, 100mA LDO Linear Regulator*	8-SOIC	3775.00/2,500		
CS51414EDR8G	CS51414EDR8GOSCT-ND	1.5A, 520KHz Low Voltage Buck Reg.*	8-SOIC	2.82	2.35	1.98
CS51414EDR8G	CS51414EDR8GOSTR-ND	1.5A, 520KHz Low Voltage Buck Reg.*	8-SOIC	3055.00/2,500		
CS59201GDR8	CS59201GDR8OSCT-ND	Winchester Servo Preamp	8-SOIC	5.31	4.25	3.31
CS59201GDR8	CS59201GDR8OSTR-ND	Winchester Servo Preamp	8-SOIC	7435.00/2,500		
LC03-6R2	LC03-6R2OSCT-ND	Low Capacitance Surface Mount TVS for HS Data Interface	8-SOIC	1.34	1.16	.89
LC03-6R2	LC03-6R2OSTR-ND	Low Capacitance Surface Mount TVS for HS Data Interface	8-SOIC	1182.50/2,500		
LM201AN	LM201ANOS-ND	Non-Compensated Single Op Amp	8-Dip	.75	.56	.43
LM201ANG	LM201ANGOS-ND	Non-Compensated Single Op Amp*	8-Dip	.85	.69	.52
LM211DR2	LM211DR2OSCT-ND	Single Comparator	8-SOIC	.61	.46	.35
LM211DR2	LM211DR2OSTR-ND	Single Comparator	8-SOIC	492.50/2,500		
LM211DR2G	LM211DR2GOSCT-ND	Single Comparator*	8-SOIC	.69	.56	.42
LM211DR2G	LM211DR2GOSTR-ND	Single Comparator*	8-SOIC	550.00/2,500		
LM224DR2G	LM224DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.53	.42	.30
LM224DR2G	LM224DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	350.00/2,500		
LM224N	LM224NOS-ND	Single Supply Quad Op Amp	14-Dip	.55	.44	.33
LM224NG	LM224NGOS-ND	Single Supply Quad Op Amp*	14-Dip	.56	.46	.34
LM239DR2	LM239DR2OSCT-ND	Single Supply Quad Comparator	14-SOIC	.55	.43	.31
LM239DR2G	LM239DR2GOSCT-ND	Single Supply Quad Comparator*	14-SOIC	.53	.42	.30
LM239DR2G	LM239DR2GOSTR-ND	Single Supply Quad Comparator*	14-SOIC	350.00/2,500		
LM239N	LM239NOS-ND	Single Supply Quad Comparator	14-Dip	.55	.44	.33
LM239NG	LM239NGOS-ND	Single Supply Quad Comparator*	14-Dip	.56	.46	.34
LM258DR2	LM258DR2OSCT-ND	Single Supply Dual Op Amp	8-SOIC	.55	.43	.31
LM258DR2	LM258DR2OSTR-ND	Single Supply Dual Op Amp	8-SOIC	252.50/2,500		
LM258DR2G	LM258DR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	.53	.42	.30
LM258DR2G	LM258DR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	350.00/2,500		
LM258N	LM258NOS-ND	Single Supply Dual Op Amp	8-Dip	.50	.40	.30
LM258NG	LM258NGOS-ND	Single Supply Dual Op Amp*	8-Dip	.50	.41	.31
LM285D-1.2R2	LM285D-1.2R2OSCT-ND	1.235V, Micropower Volt. Reg. Diode	8-SOIC	.75	.56	.43
LM285D-1.2R2G	LM285D-1.2R2GOSCT-ND	1.235V, Micropower Volt. Reg. Diode*	8-SOIC	.85	.69	.52
LM285D-1.2R2G	LM285D-1.2R2GOSTR-ND	1.235V, Micropower Volt. Reg. Diode*	8-SOIC	675.00/2,500		
LM285D-2.5R2	LM285D-2.5R2OSCT-ND	2.5V, Micropower Voltage Reg. Diode	8-SOIC	.75	.56	.43
LM285D-2.5R2G	LM285D-2.5R2GOSCT-ND	2.5V, Micropower Volt. Reg. Diode*	8-SOIC	.85	.69	.52
LM285D-2.5R2G	LM285D-2.5R2GOSTR-ND	2.5V, Micropower Volt. Reg. Diode*	8-SOIC	675.00/2,500		
LM285Z-1.2	LM285Z-1.2OS-ND	1.235V, Micropower Volt. Reg. Diode	TO-92	.75	.56	.43
LM285Z-1.2G	LM285Z-1.2GOS-ND	1.235V, Micropower Volt. Reg. Diode*	TO-92	.85	.69	.52
LM285Z-2.5RA	LM285Z-2.5RAOSCT-ND	2.5V, Micropower Voltage Reg. Diode	TO-92	.75	.56	.43
LM285Z-2.5RAG	LM285Z-2.5RAGOSCT-ND	2.5V, Micropower Voltage Reg. Diode*	TO-92	.85	.69	.52
LM285Z-2.5RAG	LM285Z-2.5RAGOSTR-ND	2.5V, Micropower Voltage Reg. Diode*	TO-92	588.00/2,000		
LM293DR2	LM293DR2OSCT-ND	Low Offset Volt. Dual Comparator	8-SOIC	.55	.43	.31
LM293DR2	LM293DR2OSTR-ND	Low Offset Volt. Dual Comparator	8-SOIC	252.50/2,500		
LM293DR2G	LM293DR2GOSCT-ND	Low Offset Volt. Dual Comparator*	8-SOIC	.53	.42	.30
LM293DR2G	LM293DR2GOSTR-ND	Low Offset Volt. Dual Comparator*	8-SOIC	350.00/2,500		
LM301AN	LM301ANOS-ND	Non-Compensated Single Op Amp	8-Dip	.70	.53	.40
LM301ANG	LM301ANGOS-ND	Non-Compensated Single Op Amp*	8-Dip	.80	.65	.49
LM311DR2	LM311DR2OSCT-ND	Single Comparator	8-SOIC	.53	.42	.32
LM311DR2G	LM311DR2GOSCT-ND	Single Comparator*	8-SOIC	.53	.43	.33
LM311DR2G	LM311DR2GOSTR-ND	Single Comparator*	8-SOIC	400.00/2,500		
LM311N	LM311NOS-ND	Single Comparator	8-Dip	.55	.45	.34
LM311NG	LM311NGOS-ND	Single Comparator*	8-Dip	.56	.46	.34
LM317BD2TR4	LM317BD2TR4OSCT-ND	1.5A, Adj. Out, Positive Volt. Reg.	D2PAK	1.29	1.12	.86
LM317BD2TR4	LM317BD2TR4OSTR-ND	1.5A, Adj. Out, Positive Volt. Reg.	D2PAK	326.40/800		
LM317BD2TR4G	LM317BD2TR4GOSCT-ND	1.5A, Adj. Out, Positive Volt. Reg.*	D2PAK	1.11	.97	.75
LM317BD2TR4G	LM317BD2TR4GOSTR-ND	1.5A, Adj. Out, Positive Volt. Reg.*	D2PAK	393.60/800		
LM317BTG	LM317BTGOS-ND	1.5A, Adj. Out, Positive Volt. Reg.*	TO-220	.85	.69	.52
LM317D2TR4G	LM317D2TR4GOSCT-ND	1.5A, Adj. Out, Positive Volt. Reg.*	D2PAK	.98	.85	.66
LM317D2TR4G	LM317D2TR4GOSTR-ND	1.5A, Adj. Out, Positive Volt. Reg.*	D2PAK	346.40/800		
LM317LBD	LM317LBDOS-ND	100mA, Adj. Out, Positive Volt. Reg.	8-SOIC	.51	.39	.29
LM317LBDG	LM317LBDGOS-ND	100mA, Adj. Out, Positive Volt. Reg.*	8-SOIC	.65	.53	.40
LM317LBZG	LM317LBZGOS-ND	100mA, Adj. Out, Positive Volt. Reg.*	TO-92	.65	.53	.40
LM317LDR2G	LM317LDR2GOSCT-ND	100mA, Adj. Out, Positive Volt. Reg.*	8-SOIC	.47	.38	.29
LM317LDR2G	LM317LDR2GOSTR-ND	100mA, Adj. Out, Positive Volt. Reg.*	8-SOIC	355.00/2,500		
LM317LZ	LM317LZOS-ND	100mA, Adj. Out, Positive Volt. Reg.	TO-92	.44	.36	.27
LM317LZG	LM317LZGOS-ND	100mA, Adj. Out, Positive Volt. Reg.*	TO-92	.58	.45	.33
LM317MBDT	LM317MBDTOS-ND	500mA, Adj. Out, Positive Volt. Reg.	DPAK	.93	.71	.53
LM317MBDTG	LM317MBDTGOS-ND	500mA, Adj. Out, Positive Volt. Reg.*	DPAK	1.09	.88	.66
LM317MDTRKG	LM317MDTRKGOSCT-ND	500mA, Adj. Out, Positive Volt. Reg.*	DPAK	.88	.71	.53
LM317MDTRKG	LM317MDTRKGOSTR-ND	500mA, Adj. Out, Positive Volt. Reg.*	DPAK	697.50/2.500		
LM317MT	LM317MTOS-ND	500mA, Adj. Out, Positive Volt. Reg.	TO-220	.65	.50	.37
LM317MTG	LM317MTGOS-ND	500mA, Adj. Out, Positive Volt. Reg.*	TO-220	.75	.60	.45
LM317TG	LM317TGOS-ND	1.5A, Adj. Output, Positive Volt. Reg.*	TO-220	.74	.60	.45
LM323AT	LM323ATOS-ND	3.0A, 5V, Positive Voltage Regulator	TO-220	1.52	1.22	.92
LM324ADR2	LM324ADR2OSCT-ND	Single Supply Quad Op Amp	14-SOIC	.49	.40	.30
LM324ADR2	LM324ADR2OSTR-ND	Single Supply Quad Op Amp	14-SOIC	367.50/2,500		
LM324ADR2G	LM324ADR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.56	.44	.32
LM324ADR2G	LM324ADR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	367.50/2,500		
LM324AN	LM324ANOS-ND	Single Supply Quad Op Amp	14-Dip	.49	.37	.28
LM324ANG	LM324ANGOS-ND	Single Supply Quad Op Amp*	14-Dip	.62	.50	.38
LM324DR2	LM324DR2OSCT-ND	Single Supply Quad Op Amp	14-SOIC	.52	.40	.29
LM324DR2	LM324DR2OSTR-ND	Single Supply Quad Op Amp	14-SOIC	400.00/2,500		
LM324DR2G	LM324DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.51	.40	.29
LM324DR2G	LM324DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	332.50/2,500		
LM324N	LM324NOS-ND	Single Supply Quad Op Amp	14-Dip	.55	.44	.33
LM324NG	LM324NGOS-ND	Single Supply Quad Op Amp*	14-Dip	.56	.46	.34
LM337BD2TR4G	LM337BD2TR4GOSCT-ND	1.5A, Adj. Output, Neg. Volt. Reg.*	D2PAK	1.56	1.35	1.04
LM337BD2TR4G	LM337BD2TR4GOSTR-ND	1.5A, Adj. Output, Neg. Volt. Reg.*	D2PAK	551.20/800		
LM337BT	LM337BTOS-ND	1.5A, Adj. Output, Neg. Volt. Reg.	TO-220	.81	.68	.54
LM337BTG	LM337BTGOS-ND	1.5A, Adj. Output, Neg. Volt. Reg.*	TO-220	1.02	.89	.69
LM337T	LM337TOS-ND	1.5A, Adj. Output, Neg. Volt. Reg.	TO-220	.77	.65	.52
LM337TG	LM337TGOS-ND	1.5A, Adj. Output, Neg. Volt. Reg.*	TO-220	.98	.85	.66
LM339DR2	LM339DR2OSCT-ND	Single Supply Quad Comparator	14-SOIC	.52	.40	.29
LM339DR2	LM339DR2OSTR-ND	Single Supply Quad Comparator	14-SOIC	280.00/2,500		
LM339DR2G	LM339DR2GOSCT-ND	Single Supply Quad Comparator*	14-SOIC	.51	.40	.29
LM339DR2G	LM339DR2GOSTR-ND	Single Supply Quad Comparator*	14-SOIC	332.50/2,500		
LM339N	LM339NOS-ND	Single Supply Quad Comparator	14-Dip	.55	.44	.33
LM339NG	LM339NGOS-ND	Single Supply Quad Comparator*	14-Dip	.56	.46	.34
LM350TG	LM350TGOS-ND	3.0A, Adj. Out, Positive Volt. Reg.*	TO-220	1.71	1.43	1.20
LM358DR2G	LM358DR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	.49	.38	.28
LM358DR2G	LM358DR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	320.00/2,500		
LM358N	LM358NOS-ND	Single Supply Dual Op Amp	8-Dip	.44	.36	.27
LM358NG	LM358NGOS-ND	Single Supply Dual Op Amp*	8-Dip	.58	.45	.33
LM385BD-1.2	LM385BD-1.2OS-ND	1.235V, Micropower Volt. Ref. Diode	8-SOIC	.70	.53	.40
LM385BD-1.2G	LM385BD-1.2GOS-ND	1.235V, Micropower Volt. Ref. Diode*	8-SOIC	.80	.65	.49
LM385BD-2.5R2G	LM385BD-2.5R2GOSCT-ND	2.5V, Micropower Volt. Ref. Diode*	8-SOIC	.80	.65	.49
LM385BD-2.5R2G	LM385BD-2.5R2GOSTR-ND	2.5V, Micropower Volt. Ref. Diode*	8-SOIC	635.00/2,500		
LM385BZ-1.2	LM385BZ-1.2OS-ND	1.235V, Micropower Volt. Ref. Diode	TO-92	.70	.53	.40
LM385BZ-1.2G	LM385BZ-1.2GOS-ND	1.235V, Micropower Volt. Ref. Diode*	TO-92	.80	.65	.49
LM385BZ-2.5	LM385BZ-2.5OS-ND	2.5V, Micropower Volt. Ref. Diode	TO-92	.70	.53	.40
LM385BZ-2.5G	LM385BZ-2.5GOS-ND	2.5V, Micropower Volt. Ref. Diode*	TO-92	.80	.65	.49
LM385D-1.2R2	LM385D-1.2R2OSCT-ND	1.235V, Micropower Volt. Ref. Diode	8-SOIC	.93	.74	.56
LM385D-1.2R2	LM385D-1.2R2OSTR-ND	1.235V, Micropower Volt. Ref. Diode	8-SOIC	570.00/2,500		
LM385D-1.2R2G	LM385D-1.2R2GOSCT-ND	1.235V, Micropower Volt. Ref. Diode*	8-SOIC	.80	.65	.49
LM385D-1.2R2G	LM385D-1.2R2GOSTR-ND	1.235V, Micropower Volt. Ref. Diode*	8-SOIC	635.00/2,500		
LM385Z-1.2	LM385Z-1.2OS-ND	1.235V, Micropower Volt. Ref. Diode	TO-92	.65	.50	.37
LM385Z-1.2G	LM385Z-1.2GOS-ND	1.235V, Micropower Volt. Ref. Diode*	TO-92	.75	.60	.45
LM385Z-2.5	LM385Z-2.5OS-ND	2.5V, Micropower Volt. Ref. Diode	TO-92	.65	.50	.37
LM385Z-2.5G	LM385Z-2.5GOS-ND	2.5V, Micropower Volt. Ref. Diode*	TO-92	.75	.60	.45
LM393DR2G	LM393DR2GOSCT-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.49	.38	.28
LM393DR2G	LM393DR2GOSTR-ND	Low Offset Voltage Dual Comparator*	8-SOIC	320.00/2,500		
LM393N	LM393NOS-ND	Low Offset Voltage Dual Comparator	8-Dip	.25	.21	.16
LM393NG	LM393NGOS-ND	Low Offset Voltage Dual Comparator*	8-Dip	.58	.45	.33
LM833DR2	LM833DR2OSCT-ND	LN, Audio Dual Op Amp	8-SOIC	.84	.68	.51
LM833DR2G	LM833DR2GOSCT-ND	LN, Audio Dual Op Amp*	8-SOIC	.75	.60	.45
LM833DR2G	LM833DR2GOSTR-ND	LN, Audio Dual Op Amp*	8-SOIC	592.50/2,500		
LM2574N-005	LM2574N-005OS-ND	0.5A, 5V, Step-Down Switching Reg.	8-Dip	1.25	1.01	.76
LM2574N-5G	LM2574N-5GOS-ND	0.5A, 5V, Step-Down Switching Regulator*	8-Dip	1.68	1.41	1.18
LM2575T-005	LM2575T-005OS-ND	1.0A, 5V, Step-Down Switching Regulator	TO-220-5	1.84	1.47	1.11
LM2575T-5G	LM2575T-5GOS-ND	1.0A, 5V, Step-Down Switching Reg.*	TO-220-5	2.47	2.06	1.73
LM2575T-ADJ	LM2575T-ADJOS-ND	1.0A, Adj. Output Voltage, Step-Down Switching Regulator	TO-220-5	1.84	1.47	1.11
LM2575T-ADJG	LM2575T-ADJGOS-ND	1.0A, Adj. Output Voltage, Step-Down Switching Regulator*	TO-220-5	2.47	2.06	1.73
LM2576T-005	LM2576T-005OS-ND	3.0A, 5V, Step-Down Switching Regulator	TO-220-5	2.88	2.40	2.02
LM2576T-ADJG	LM2576T-ADJGOS-ND	3.0A, Adj. Output Voltage, Step-Down Switching Regulator*	TO-220-5	2.49	2.08	1.75
LM2901DR2G	LM2901DR2GOSCT-ND	Single Supply Quad Comparator*	14-SOIC	.53	.42	.30
LM2901DR2G	LM2901DR2GOSTR-ND	Single Supply Quad Comparator*	14-SOIC	350.00/2,500		
LM2901N	LM2901NOS-ND	Single Supply Quad Comparator	14-Dip	.55	.44	.33
LM2901NG	LM2901NGOS-ND	Single Supply Quad Comparator*	14-Dip	.56	.46	.34
LM2902DR2	LM2902DR2OSCT-ND	Single Supply Quad Op Amp	14-SOIC	.55	.43	.31
LM2902DR2G	LM2902DR2GOSCT-ND	Single Supply Quad Op Amp*	14-SOIC	.53	.42	.30
LM2902DR2G	LM2902DR2GOSTR-ND	Single Supply Quad Op Amp*	14-SOIC	350.00/2,500		
LM2902N	LM2902NOS-ND	Single Supply Quad Op Amp	14-Dip	.55	.44	.33
LM2902NG	LM2902NGOS-ND	Single Supply Quad Op Amp*	14-Dip	.56	.46	.34
LM2903DR2	LM2903DR2OSCT-ND	Low Offset Voltage Dual Comparator	8-SOIC	.55	.43	.31
LM2903DR2	LM2903DR2OSTR-ND	Low Offset Voltage Dual Comparator	8-SOIC	295.00/2,500		
LM2903DR2G	LM2903DR2GOSCT-ND	Low Offset Voltage Dual Comparator*	8-SOIC	.53	.42	.30
LM2903DR2G	LM2903DR2GOSTR-ND	Low Offset Voltage Dual Comparator*	8-SOIC	350.00/2,500		
LM2903N	LM2903NOS-ND	Low Offset Voltage Dual Comparator	8-Dip	.41	.33	.25
LM2903NG	LM2903NGOS-ND	Low Offset Voltage Dual Comparator*	8-Dip	.54	.42	.30
LM2904DR2	LM2904DR2OSCT-ND	Single Supply Dual Op Amp	8-SOIC	.55	.43	.31

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2904DR2	LM2904DR2OSTR-ND	Single Supply Dual Op Amp	8-SOIC	295.00/2,500		
LM2904DR2G	LM2904DR2GOSCT-ND	Single Supply Dual Op Amp*	8-SOIC	.53	.42	.30
LM2904DR2G	LM2904DR2GOSTR-ND	Single Supply Dual Op Amp*	8-SOIC	350.00/2,500		
LM2904NG	LM2904NGOS-ND	Single Supply Dual Op Amp*	8-Dip	.54	.42	.30
LM2931AD-5.0R2	LM2931AD5.0R2OSCT-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection	8-SOIC	.96	.77	.58
LM2931AD-5.0R2G	LM2931AD-5.0R2GOSCT-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection*	8-SOIC	.83	.67	.50
LM2931AD-5.0R2G	LM2931AD-5.0R2GOSTR-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection*	8-SOIC	655.00/2,500		
LM2931AT-5.0	LM2931AT-5.0OS-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection	TO-220	1.11	.93	.74
LM2931AT-5.0G	LM2931AT-5.0GOS-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection*	TO-220	1.43	1.25	.96
LM2931AZ-5.0RA	LM2931AZ5.0RAOSCT-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection	TO-92	.96	.77	.58
LM2931AZ-5.0RAG	LM2931AZ-5.0RAGOSCT-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection*	TO-92	.83	.67	.50
LM2931AZ-5.0RAG	LM2931AZ-5.0RAGOSTR-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection*	TO-92	570.00/2,000		
LM2931CDR2	LM2931CDR2OSCT-ND	0.1A, Adj. Output, LDO Voltage Reg. with 60V Load Dump Protection	8-SOIC	.89	.72	.54
LM2931CDR2G	LM2931CDR2GOSCT-ND	0.1A, Adj. Output, LDO Voltage Reg. with 60V Load Dump Protection*	8-SOIC	.77	.62	.47
LM2931CDR2G	LM2931CDR2GOSTR-ND	0.1A, Adj. Output, LDO Voltage Reg. with 60V Load Dump Protection*	8-SOIC	612.50/2,500		
LM2931CT	LM2931CTOS-ND	0.1A, Adj. Output, LDO Voltage Reg. with 60V Load Dump Protection	TO-220-5	1.08	.94	.73
LM2931CTG	LM2931CTGOS-ND	0.1A, Adj. Output, LDO Voltage Reg. w/60V Load Dump Protection*	TO-220-5	1.13	.99	.76
LM2931D-5.0R2	LM2931D-5.0R2OSCT-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection	8-SOIC	.89	.72	.54
LM2931D-5.0R2	LM2931D-5.0R2OSTR-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection	8-SOIC	530.00/2,500		
LM2931D-5.0R2G	LM2931D-5.0R2GOSCT-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection*	8-SOIC	.77	.62	.47
LM2931D-5.0R2G	LM2931D-5.0R2GOSTR-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection*	8-SOIC	612.50/2,500		
LM2931T-5.0	LM2931T-5.0OS-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection	TO-220	.91	.76	.61
LM2931T-5.0G	LM2931T-5.0GOS-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection*	TO-220	1.18	1.03	.79
LM2931Z-5.0G	LM2931Z-5.0GOS-ND	100mA, 5V, LDO Voltage Reg. with 60V Load Dump Protection*	TO-92	.83	.67	.50
LP2950ACDT-5.0	LP2950ACDT-5.0OS-ND	100mA, 5V, Low Power LDO Volt. Reg.	DPAK	.98	.74	.56
LP2950ACDT-5.0G	LP2950ACDT-5.0GOS-ND	100mA, 5V, Low Power LDO Volt. Reg.*	DPAK	.96	.83	.64
LP2950ACZ-5.0	LP2950ACZ-5.0OS-ND	100mA, 5V, Low Power LDO Volt. Reg.	TO-92	.84	.63	.48
LP2950ACZ-5.0G	LP2950ACZ-5.0GOS-ND	100mA, 5V, Low Power LDO Volt. Reg.*	TO-92	.99	.80	.60
LP2950CDT-5.0	LP2950CDT-5.0OS-ND	100mA, 5V, Low Power LDO Volt. Reg.	DPAK	.93	.71	.53
LP2950CDT-5.0G	LP2950CDT-5.0GOS-ND	100mA, 5V, Low Power LDO Volt. Reg.*	DPAK	1.09	.88	.66
LP2950CZ-5.0	LP2950CZ-5.0OS-ND	100mA, 5V, Low Power LDO Volt. Reg.	TO-92	.79	.60	.45
LP2950CZ-5.0G	LP2950CZ-5.0GOS-ND	100mA, 5V, Low Power LDO Volt. Reg.*	TO-92	.93	.75	.57
LP2951ACDR2G	LP2951ACDR2GOSCT-ND	100mA, 5V, Low Power LDO Volt. Reg.*	8-SOIC	.99	.80	.60
LP2951ACDR2G	LP2951ACDR2GOSTR-ND	100mA, 5V, Low Power LDO Volt. Reg.*	8-SOIC	782.50/2,500		
MAX809JTR	MAX809JTROSCT-ND	4V, 3-Pin MPU Reset Monitor	SOT-23	.68	.55	.41
MAX809JTR	MAX809JTROSTR-ND	4V, 3-Pin MPU Reset Monitor	SOT-23	573.00/3,000		
MAX809JTRG	MAX809JTRGOSCT-ND	4V, 3-Pin MPU Reset Monitor*	SOT-23	.65	.53	.40
MAX809JTRG	MAX809JTRGOSTR-ND	4V, 3-Pin MPU Reset Monitor*	SOT-23	588.00/3,000		
MAX809LTR	MAX809LTROSCT-ND	4.63V, 3-Pin MPU Reset Monitor	SOT-23	.68	.55	.41
MAX809LTR	MAX809LTROSTR-ND	4.63V, 3-Pin MPU Reset Monitor	SOT-23	573.00/3,000		
MAX809LTRG	MAX809LTRGOSCT-ND	4.63V, 3-Pin MPU Reset Monitor*	SOT-23	.65	.53	.40
MAX809LTRG	MAX809LTRGOSTR-ND	4.63V, 3-Pin MPU Reset Monitor*	SOT-23	588.00/3,000		
MAX809MTR	MAX809MTROSCT-ND	4.38V, 3-Pin MPU Reset Monitor	SOT-23	.68	.55	.41
MAX809MTR	MAX809MTROSTR-ND	4.38V, 3-Pin MPU Reset Monitor	SOT-23	573.00/3,000		
MAX809MTRG	MAX809MTRGOSCT-ND	4.38V, 3-Pin MPU Reset Monitor*	SOT-23	.65	.53	.40
MAX809MTRG	MAX809MTRGOSTR-ND	4.38V, 3-Pin MPU Reset Monitor*	SOT-23	588.00/3,000		
MAX809RTR	MAX809RTROSCT-ND	2.63V, 3-Pin MPU Reset Monitor	SOT-23	.68	.55	.41
MAX809RTR	MAX809RTROSTR-ND	2.63V, 3-Pin MPU Reset Monitor	SOT-23	678.00/3,000		
MAX809RTRG	MAX809RTRGOSCT-ND	2.63V, 3-Pin MPU Reset Monitor*	SOT-23	.65	.53	.40
MAX809RTRG	MAX809RTRGOSTR-ND	2.63V, 3-Pin MPU Reset Monitor*	SOT-23	588.00/3,000		
MAX809STR	MAX809STROSCT-ND	2.93V, 3-Pin MPU Reset Monitor	SOT-23	.68	.55	.41
MAX809STR	MAX809STROSTR-ND	2.93V, 3-Pin MPU Reset Monitor	SOT-23	645.00/3,000		
MAX809STRG	MAX809STRGOSCT-ND	2.93V, 3-Pin MPU Reset Monitor*	SOT-23	.65	.53	.40
MAX809STRG	MAX809STRGOSTR-ND	2.93V, 3-Pin MPU Reset Monitor*	SOT-23	588.00/3,000		
MAX809TTR	MAX809TTROSCT-ND	3.08V, 3-Pin MPU Reset Monitor	SOT-23	.68	.55	.41
MAX809TTR	MAX809TTROSTR-ND	3.08V, 3-Pin MPU Reset Monitor	SOT-23	573.00/3,000		
MAX809TTRG	MAX809TTRGOSCT-ND	3.08V, 3-Pin MPU Reset Monitor*	SOT-23	.65	.53	.40
MAX809TTRG	MAX809TTRGOSTR-ND	3.08V, 3-Pin MPU Reset Monitor*	SOT-23	588.00/3,000		
MAX810MTRG	MAX810MTRGOSCT-ND	4.38V, 3-Pin MPU Reset Monitor*	SOT-23	.71	.57	.43
MAX810MTRG	MAX810MTRGOSTR-ND	4.38V, 3-Pin MPU Reset Monitor*	SOT-23	642.00/3,000		
MAX810TTR	MAX810TTROSCT-ND	3.08V, 3-Pin MPU Reset Monitor	SOT-23	.56	.42	.32
MAX810TTR	MAX810TTROSTR-ND	3.08V, 3-Pin MPU Reset Monitor	SOT-23	546.00/3,000		
MAX810TTRG	MAX810TTRGOSCT-ND	3.08V, 3-Pin MPU Reset Monitor*	SOT-23	.71	.57	.43
MAX810TTRG	MAX810TTRGOSTR-ND	3.08V, 3-Pin MPU Reset Monitor*	SOT-23	642.00/3,000		
MC10E016FN	MC10E016FNOS-ND	5V ECL 8-Bit Sync. Binary Up Counter	28-PLCC	8.33	7.50	6.65
MC10E116FN	MC10E116FNOS-ND	5V ECL Quint Differential Line Receiver	28-PLCC	9.16	8.25	7.32
MC10E131FN	MC10E131FNOS-ND	5V ECL 4-Bit D Flip-Flop	28-PLCC	9.16	8.25	7.32
MC10E141FN	MC10E141FNOS-ND	5V ECL 8-Bit Shift Regulator	28-PLCC	9.16	8.25	7.32
MC10E143FN	MC10E143FNOS-ND	5V ECL 9-Bit Hold Regulator	28-PLCC	9.16	8.25	7.32
MC10E151FN	MC10E151FNOS-ND	5V ECL 6-Bit D Regulator	28-PLCC	9.16	8.25	7.32
MC10E195FN	MC10E195FNOS-ND	5V ECL Programmable Delay Chip	28-PLCC	9.16	8.25	7.32
MC10E431FN	MC10E431FNOS-ND	5V ECL 3-Bit Diff. Flip-Flop	28-PLCC	9.16	8.25	7.32
MC10E1652FN	MC10E1652FNOS-ND	5V ECL Dual ECL Output Comparator with Latch	20-PLCC	37.50	35.00	32.50
MC10EL04D	MC10EL04DOS-ND	5V ECL 2-Input AND/NAND Gate	8-SOIC	5.00	4.00	3.38
MC10EL05D	MC10EL05DOS-ND	5V ECL 2-Input Diff. AND/NAND Gate	8-SOIC	5.00	4.00	3.38
MC10EL07D	MC10EL07DOS-ND	5V ECL 2-Input XOR/XNOR Gate	8-SOIC	5.00	4.00	3.38

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC10EL15D	MC10EL15DOS-ND	5V ECL 1:4 Clock Dist. Chip	16-SOIC	5.40	4.32	3.36
MC10EL16DR2	MC10EL16DR2OSCT-ND	5V ECL Diff. Receiver	8-SOIC	4.50	3.60	2.80
MC10EL16DR2	MC10EL16DR2OSTR-ND	5V ECL Diff. Receiver	8-SOIC	6300.00/2,500		
MC10EL32D	MC10EL32DOS-ND	5V ECL 2 Divider	8-SOIC	5.00	4.00	3.38
MC10EL33D	MC10EL33DOS-ND	5V ECL 4 Divider	8-SOIC	5.00	4.00	3.38
MC10EL34D	MC10EL34DOS-ND	5V ECL 2, 4, 8 Clock Generation Chip	16-SOIC	7.20	5.76	4.86
MC10EL51D	MC10EL51DOS-ND	5V ECL Diff. Clock D-Type Flip-Flop	8-SOIC	5.00	4.00	3.38
MC10EL52D	MC10EL52DOS-ND	5V ECL Diff. Data/Clock D-Type Flip-Flop	8-SOIC	5.00	4.00	3.38
MC10EL57D	MC10EL57DOS-ND	5V ECL 4:1 Diff. Mux	16-SOIC	7.00	5.60	4.73
MC10EL58D	MC10EL58DOS-ND	5V ECL 2:1 Mux	8-SOIC	6.00	4.80	4.05
MC10EL89D	MC10EL89DOS-ND	5V ECL Coaxial Cable Driver	8-SOIC	5.50	4.40	3.72
MC10ELT20D	MC10ELT20DOS-ND	5V TTL to Diff. PECL Translator	8-SOIC	4.28	3.42	2.66
MC10ELT22D	MC10ELT22DOS-ND	5V Dual TTL to Diff. PECL Translator	8-SOIC	4.28	3.42	2.66
MC10ELT25D	MC10ELT25DOS-ND	-5V Diff. ECL to TTL Translator	8-SOIC	4.28	3.42	2.66
MC10ELT28D	MC10ELT28DOS-ND	5V TTL to Diff. PECL and Diff. PECL to TTL Translator	8-SOIC	6.00	4.80	4.05
MC10EP01D	MC10EP01DOS-ND	3.3V/5V ECL 4-Input OR/NOR Gate	8-SOIC	7.90	6.32	5.34
MC10EP05D	MC10EP05DOS-ND	3.3V/5V ECL 2-Input Diff AND/NAND Gate	8-SOIC	7.90	6.32	5.34
MC10EP05DT	MC10EP05DTOS-ND	3.3V/5V ECL 2-Input Diff AND/NAND Gate	8-TSSOP	7.90	6.32	5.34
MC10EP16D	MC10EP16DOS-ND	3.3V/5V ECL Diff. Receiver/Driver	8-SOIC	6.00	4.80	4.05
MC10EP16DT	MC10EP16DTOS-ND	3.3V/5V ECL Diff. Receiver/Driver	8-TSSOP	6.00	4.80	4.05
MC10EP17DTR2	MC10EP17DTR2OSCT-ND	3.3V/5V ECL Quad Diff. Driver/Receiver	20-TSSOP	13.58	12.23	10.84
MC10EP17DTR2	MC10EP17DTR2OSTR-ND	3.3V/5V ECL Quad Diff. Driver/Receiver	20-TSSOP	24755.00/2,500		
MC10EP35DR2	MC10EP35DR2OSCT-ND	3.3V/5V ECL JK Flip-Flop	8-SOIC	9.66	8.70	7.72
MC10EP35DR2	MC10EP35DR2OSTR-ND	3.3V/5V ECL JK Flip-Flop	8-SOIC	17617.50/2,500		
MC10EP35DTR2	MC10EP35DTR2OSCT-ND	3.3V/5V ECL JK Flip-Flop	8-TSSOP	9.66	8.70	7.72
MC10EP35DTR2	MC10EP35DTR2OSTR-ND	3.3V/5V ECL JK Flip-Flop	8-TSSOP	17617.50/2,500		
MC10EP52DT	MC10EP52DTOS-ND	3.3V/5V ECL Diff. Data and Clock D-Type Flip-Flop	8-TSSOP	8.00	6.40	5.40
MC10EP57DTG	MC10EP57DTGOS-ND	3.3V/5V ECL 4:1 Differential Mux*	20-TSSOP	11.90	11.01	8.33
MC10EP89DT	MC10EP89DTOS-ND	3.3V/5V ECL Coaxial Cable Driver	8-TSSOP	8.00	6.40	5.40
MC10EP101FAR2	MC10EP101FAR2OSCT-ND	3.3V/5V ECL Quad 4-Input OR/NOR Gate	32-LQFP	16.03	14.43	12.80
MC10EP105FAR2	MC10EP105FAR2OSCT-ND	3.3V/5V ECL Quad 2-Input Diff. AND/NAND Gate	32-LQFP	16.03	14.43	12.80
MC10EP116FAR2	MC10EP116FAR2OSCT-ND	3.3V/5V Hex Diff. Line Receiver/Driver	32-LQFP	16.03	14.43	12.80
MC10EP131FAR2	MC10EP131FAR2OSCT-ND	3.3V/5V ECL Quad D-Type Flip-Flop with Set/Reset/Diff. Clock	32-LQFP	16.03	14.43	12.80
MC10EP139DTR2	MC10EP139DTR2OSCT-ND	3.3V/5V ECL 2/4, 4/5/6, Clock Generation Chip	20-TSSOP	13.74	12.38	10.98
MC10EP139DWR2	MC10EP139DWR2OSCT-ND	3.3V/5V ECL 2/4, 4/5/6, Clock Generation Chip	20-SOIC	13.74	12.38	10.98
MC10EP142FAR2	MC10EP142FAR2OSCT-ND	3.3V/5V ECL 9-Bit Shift Register	32-LQFP	18.98	17.71	16.45
MC10EP445FAR2	MC10EP445FAR2OSCT-ND	3.3V/5V ECL 8-Bit Serial/Parallel Converter	32-LQFP	18.98	17.71	16.45
MC10EP451FAR2	MC10EP451FAR2OSCT-ND	3.3V/5V ECL 6-Bit Diff. Register with Master Reset	32-LQFP	18.98	17.71	16.45
MC10H016FN	MC10H016FNOS-ND	4-Bit Binary Counter	20-PLCC	20.49	19.13	17.76
MC10H016P	MC10H016POS-ND	4-Bit Binary Counter	16-Dip	16.40	15.31	14.21
MC10H115FN	MC10H115FNOS-ND	Quad Line Receiver	20-PLCC	3.96	3.17	2.47
MC10H115P	MC10H115POS-ND	Quad Line Receiver	16-Dip	3.35	2.69	2.09
MC10H116P	MC10H116POS-ND	Triple Line Receiver	16-Dip	3.35	2.69	2.09
MC10H124FN	MC10H124FNOS-ND	Quad TTL-to-MECL Translator with TTL Strobe Input	20-PLCC	6.08	4.87	4.11
MC10H125FNR2	MC10H125FNR2OSCT-ND	Quad MECL-to-TTL Translator	20-PLCC	6.08	4.87	4.11
MC10H350FN	MC10H350FNOS-ND	PECL to TTL Translator	20-PLCC	12.50	11.25	9.98
MC10H350P	MC10H350POS-ND	PECL to TTL Translator	16-Dip	15.15	14.14	13.13
MC10H601FN	MC10H601FNOS-ND	9-Bit ECL to TTL Translator	28-PLCC	9.33	8.40	7.45
MC10H604FN	MC10H604FNOS-ND	Reg. Hex TTL to ECL Translator	28-PLCC	16.43	14.79	13.12
MC10SX1130D	MC10SX1130DOS-ND	LED Driver	16-SOIC	9.58	8.63	7.65
MC26LS30DR2	MC26LS30DR2OSCT-ND	Dual Differential Line Driver	16-SOIC	1.28	1.03	.78
MC26LS30DR2	MC26LS30DR2OSTR-ND	Dual Differential Line Driver	16-SOIC	1642.50/2,500		
MC74AC00DR2	MC74AC00DR2OSCT-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.28
MC74AC02DR2	MC74AC02DR2OSCT-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.28
MC74AC02DR2	MC74AC02DR2OSTR-ND	Quad 2-Input NOR Gate	14-SOIC	365.00/2,500		
MC74AC02N	MC74AC02NOS-ND	Quad 2-Input NOR Gate	14-Dip	.49	.37	.28
MC74AC08DR2	MC74AC08DR2OSCT-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.28
MC74AC08DR2	MC74AC08DR2OSTR-ND	Quad 2-Input AND Gate	14-SOIC	322.50/2,500		
MC74AC08N	MC74AC08NOS-ND	Quad 2-Input AND Gate	14-Dip	.49	.37	.28
MC74AC10DR2	MC74AC10DR2OSCT-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.28
MC74AC11D	MC74AC11DOS-ND	Triple 3-Input AND Gate	14-SOIC	.41	.33	.25
MC74AC32DR2	MC74AC32DR2OSCT-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	.28
MC74AC32N	MC74AC32NOS-ND	Quad 2-Input OR Gate	14-Dip	.51	.39	.29
MC74AC74DR2	MC74AC74DR2OSCT-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.48	.39	.29
MC74AC74DR2	MC74AC74DR2OSTR-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	322.50/2,500		
MC74AC74N	MC74AC74NOS-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-Dip	.54	.41	.31
MC74AC86DR2	MC74AC86DR2OSCT-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.47	.38	.29
MC74AC86DR2	MC74AC86DR2OSTR-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	315.00/2,500		
MC74AC125DR2	MC74AC125DR2OSCT-ND	Tri-State Quad Buffer	14-SOIC	.42	.32	.24
MC74AC125DR2	MC74AC125DR2OSTR-ND	Tri-State Quad Buffer	14-SOIC	355.00/2,500		
MC74AC138N	MC74AC138NOS-ND	1-8 Decoder/Demux	16-Dip	.70	.53	.40
MC74AC273DWR2	MC74AC273DWR2OSCT-ND	Octal D-Type Flip-Flop	20-SOIC	.77	.62	.46
MC74AC373DWR2	MC74AC373DWR2OSCT-ND	Tri-State Octal Transparent Latch	20-SOIC	.77	.62	.46
MC74AC373DWR2	MC74AC373DWR2OSTR-ND	Tri-State Octal Transparent Latch	20-SOIC	264.00/1,000		
MC74AC373N	MC74AC373NOS-ND	Tri-State Octal Transparent Latch	20-Dip	.99	.80	.60
MC74AC541DWR2	MC74AC541DWR2OSCT-ND	Tri-State Octal Line Driver	20-SOIC	.88	.71	.53
MC74AC541DWR2	MC74AC541DWR2OSTR-ND	Tri-State Octal Line Driver	20-SOIC	303.00/1,000		

* ***RoHS Compliant***

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ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC74AC573DWR2	MC74AC573DWR2OSCT-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.77	.62	.46
MC74AC573N	MC74AC573NOS-ND	Tri-State Octal Buffer/Line Driver	20-Dip	1.05	.85	.64
MC74AC574DWR2	MC74AC574DWR2OSCT-ND	Tri-State D-Type Flip-Flop	20-SOIC	.77	.62	.46
MC74AC574DWR2	MC74AC574DWR2OSTR-ND	Tri-State D-Type Flip-Flop	20-SOIC	264.00/1,000		
MC74ACT00DR2	MC74ACT00DR2OSCT-ND	Quad 2-Input NAND Gate	14-SOIC	.46	.37	.28
MC74ACT02DR2	MC74ACT02DR2OSCT-ND	Quad 2-Input NOR Gate	14-SOIC	.46	.37	.28
MC74ACT04DR2	MC74ACT04DR2OSCT-ND	Hex Inverter	14-SOIC	.46	.37	.28
MC74ACT04N	MC74ACT04NOS-ND	Hex Inverter	14-Dip	.49	.37	.28
MC74ACT08DR2	MC74ACT08DR2OSCT-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.28
MC74ACT08N	MC74ACT08NOS-ND	Quad 2-Input AND Gate	14-Dip	.49	.37	.28
MC74ACT14N	MC74ACT14NOS-ND	Hex Inverter Schmitt Trigger	14-Dip	.49	.37	.28
MC74ACT32DR2	MC74ACT32DR2OSCT-ND	Quad 2-Input OR Gate	14-SOIC	.46	.37	.28
MC74ACT74DR2	MC74ACT74DR2OSCT-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.48	.39	.29
MC74ACT86DR2	MC74ACT86DR2OSCT-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.47	.38	.29
MC74ACT86DR2	MC74ACT86DR2OSTR-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	315.00/2,500		
MC74ACT125DR2	MC74ACT125DR2OSCT-ND	Tri-State Quad Buffer	14-SOIC	.40	.30	.23
MC74ACT138DR2	MC74ACT138DR2OSCT-ND	1-8 Decoder/Demux	16-SOIC	.64	.51	.39
MC74ACT138DR2	MC74ACT138DR2OSTR-ND	1-8 Decoder/Demux	16-SOIC	385.00/2,500		
MC74ACT157DR2	MC74ACT157DR2OSCT-ND	Quad 2-Input Multiplexer	16-SOIC	.47	.35	.27
MC74ACT157DR2	MC74ACT157DR2OSTR-ND	Quad 2-Input Multiplexer	16-SOIC	395.00/2,500		
MC74ACT245DWR2	MC74ACT245DWROSCT-ND	Tri-St. Octal Bi-Directional Transceiver	20-SOIC	.77	.62	.46
MC74ACT245N	MC74ACT245NOS-ND	Tri-St. Octal Bi-Directional Transceiver	20-Dip	.99	.80	.60
MC74ACT373DWR2	MC74ACT373DWROSCT-ND	Tri-State Octal Transparent Latch	20-SOIC	.77	.62	.46
MC74ACT374DWR2	MC74ACT374DWROSCT-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.77	.62	.46
MC74ACT540DW	MC74ACT540DWOS-ND	Tri-State Octal Line Driver	20-SOIC	.70	.53	.40
MC74ACT541DT	MC74ACT541DTOS-ND	Octal Line Driver	20-TSSOP	.70	.53	.40
MC74ACT541N	MC74ACT541NOS-ND	Octal Line Driver	20-Dip	.89	.67	.50
MC74ACT573DWR2	MC74ACT573DWROSCT-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.77	.62	.46
MC74ACT574DWR2	MC74ACT574DWROSCT-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.77	.62	.46
MC74ACT640N	MC74ACT640NOS-ND	Tri-State Octal Inverting Transceiver	20-Dip	1.75	1.40	1.05
MC74HC00ADR2	MC74HC00ADR2OSCT-ND	Quad 2-Input NAND Gate	14-SOIC	.55	.43	.31
MC74HC00AN	MC74HC00ANOS-ND	Quad 2-Input NAND Gate	14-Dip	.61	.49	.37
MC74HC02ADR2	MC74HC02ADR2OSCT-ND	Quad 2-Input NOR Gate	14-SOIC	.55	.43	.31
MC74HC02AN	MC74HC02ANOS-ND	Quad 2-Input NOR Gate	14-Dip	.61	.49	.37
MC74HC03ADR2	MC74HC03ADR2OSCT-ND	Quad 2-In. NAND Gate with OD Out	14-SOIC	.55	.43	.31
MC74HC03ADR2	MC74HC03ADR2OSTR-ND	Quad 2-In. NAND Gate with OD Out	14-SOIC	320.00/2,500		
MC74HC03AN	MC74HC03ANOS-ND	Quad 2-In. NAND Gate with OD Out	14-Dip	.61	.49	.37
MC74HC04ADR2	MC74HC04ADR2OSCT-ND	Hex Inverter	14-SOIC	.55	.43	.31
MC74HC08ADR2	MC74HC08ADR2OSCT-ND	Quad 2-Input AND Gate	14-SOIC	.55	.43	.31
MC74HC08ADTR2	MC74HC08ADTR2OSCT-ND	Quad 2-Input AND Gate	14-TSSOP	.49	.38	.28
MC74HC08AN	MC74HC08ANOS-ND	Quad 2-Input AND Gate	14-Dip	.61	.49	.37
MC74HC14ADR2	MC74HC14ADR2OSCT-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.52	.42	.32
MC74HC14ADTR2G	MC74HC14ADTR2GOSCT-ND	Hex Schmitt-Trigger Inverter*	14-TSSOP	.47	.38	.29
MC74HC14ADTR2G	MC74HC14ADTR2GOSTR-ND	Hex Schmitt-Trigger Inverter*	14-TSSOP	355.00/2,500		
MC74HC14AN	MC74HC14ANOS-ND	Hex Schmitt-Trigger Inverter	14-Dip	.66	.54	.40
MC74HC32AN	MC74HC32ANOS-ND	Quad 2-Input OR Gate	14-Dip	.61	.49	.37
MC74HC74ADR2	MC74HC74ADR2OSCT-ND	Dual D-Type Flip-Flop	14-SOIC	.52	.42	.32
MC74HC74AN	MC74HC74ANOS-ND	Dual D-Type Flip-Flop	14-Dip	.66	.54	.40
MC74HC86ADR2	MC74HC86ADR2OSCT-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.37	.28
MC74HC86ADR2	MC74HC86ADR2OSTR-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	345.00/2,500		
MC74HC86AN	MC74HC86ANOS-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.49	.37	.28
MC74HC125ADR2	MC74HC125ADR2OSCT-ND	Tri-State Quad Non-Inverting Buffer	14-SOIC	.56	.45	.34
MC74HC125ADR2	MC74HC125ADR2OSTR-ND	Tri-State Quad Non-Inverting Buffer	14-SOIC	315.00/2,500		
MC74HC125AN	MC74HC125ANOS-ND	Tri-State Quad Non-Inverting Buffer	14-Dip	.69	.56	.42
MC74HC126ADR2	MC74HC126ADR2OSCT-ND	Tri-State Quad Non-Inverting Buffer	14-SOIC	.56	.45	.34
MC74HC126ADR2	MC74HC126ADR2OSTR-ND	Tri-State Quad Non-Inverting Buffer	14-SOIC	315.00/2,500		
MC74HC126AN	MC74HC126ANOS-ND	Tri-State Quad Non-Inverting Buffer	14-Dip	.69	.56	.42
MC74HC132ADR2	MC74HC132ADR2OSCT-ND	Quad 2-Input NAND Gate with Schmitt Trigger Input	14-SOIC	.56	.45	.34
MC74HC132ADR2	MC74HC132ADR2OSTR-ND	Quad 2-Input NAND Gate with Schmitt Trigger Input	14-SOIC	315.00/2,500		
MC74HC132AN	MC74HC132ANOS-ND	Quad 2-Input NAND Gate with Schmitt Trigger Input	14-Dip	.69	.56	.42
MC74HC139AN	MC74HC139ANOS-ND	Dual 1-4 Decoder/Demux	16-Dip	.58	.44	.33
MC74HC157ADR2	MC74HC157ADR2OSCT-ND	Quad 2-Input Data Selector/Mux	16-SOIC	.52	.42	.32
MC74HC157ADR2	MC74HC157ADR2OSTR-ND	Quad 2-Input Data Selector/Mux	16-SOIC	315.00/2,500		
MC74HC157AN	MC74HC157ANOS-ND	Quad 2-Input Data Selector/Mux	16-Dip	.57	.43	.33
MC74HC161AN	MC74HC161ANOS-ND	Presettable Counter	16-Dip	.55	.42	.31
MC74HC164ADR2	MC74HC164ADR2OSCT-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	.69	.55	.42
MC74HC164ADR2	MC74HC164ADR2OSTR-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-SOIC	455.00/2,500		
MC74HC164AN	MC74HC164ANOS-ND	8-Bit Serial-In/Parallel-Out Shift Register	14-Dip	.68	.55	.41
MC74HC165AN	MC74HC165ANOS-ND	8-Bit Serial or Parallel-In/Serial-Out Shift Register	16-Dip	.68	.55	.41
MC74HC174ADR2	MC74HC174ADR2OSCT-ND	Hex D-Type Flip-Flop with Common Clock and Reset	16-SOIC	.69	.55	.42
MC74HC174ADR2	MC74HC174ADR2OSTR-ND	Hex D-Type Flip-Flop with Common Clock and Reset	16-SOIC	455.00/2,500		
MC74HC174AN	MC74HC174ANOS-ND	Hex D-Type Flip-Flop with Common Clock and Reset	16-Dip	.68	.55	.41
MC74HC175ADR2	MC74HC175ADR2OSCT-ND	Quad D-Type Flip-Flop with Common Clock and Reset	16-SOIC	.68	.55	.41
MC74HC240AN	MC74HC240ANOS-ND	Tri-State Octal Inverting Buffer/Line Driver/Line Receiver	20-Dip	1.12	.90	.68
MC74HC244AN	MC74HC244ANOS-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Line Receiver	20-Dip	1.12	.90	.68
MC74HC245ADWR2	MC74HC245ADWROSCT-ND	Tri-State Octal Non-Inverting Bus Transceiver	20-SOIC	.82	.62	.46
MC74HC245AN	MC74HC245ANOS-ND	Tri-State Octal Non-Inverting Bus Transceiver	20-Dip	1.12	.90	.68
MC74HC273ADWR2	MC74HC273ADWROSCT-ND	Octal D-Type Flip-Flop with Common Clock and Reset	20-SOIC	.82	.62	.46
MC74HC273ADWR2	MC74HC273ADWROSTR-ND	Octal D-Type Flip-Flop with Common Clock and Reset	20-SOIC	305.00/1,000		
MC74HC273AN	MC74HC273ANOS-ND	Octal D-Type Flip-Flop with Common Clock and Reset	20-Dip	1.12	.90	.68
MC74HC373ADWR2	MC74HC373ADWROSCT-ND	Tri-State Octal Non-Inverting Transparent Latch	20-SOIC	.82	.62	.46
MC74HC373AN	MC74HC373ANOS-ND	Tri-State Octal Non-Inverting Transparent Latch	20-Dip	1.12	.90	.68
MC74HC374ADWR2	MC74HC374ADWROSCT-ND	Tri-State Octal Non-Inverting D-Type Flip-Flop	20-SOIC	.82	.62	.46
MC74HC374AN	MC74HC374ANOS-ND	Tri-State Octal Non-Inverting D-Type Flip-Flop	20-Dip	1.12	.90	.68
MC74HC390ADR2	MC74HC390ADR2OSCT-ND	Dual 4-Stage Binary Ripple Counter	16-SOIC	.72	.58	.44
MC74HC390AN	MC74HC390ANOS-ND	Dual 4-Stage Binary Ripple Counter	16-Dip	.63	.48	.36
MC74HC393ADR2	MC74HC393ADR2OSCT-ND	Dual 4-Stage Binary Ripple Counter	14-SOIC	.62	.50	.38
MC74HC393ADR2	MC74HC393ADR2OSTR-ND	Dual 4-Stage Binary Ripple Counter	14-SOIC	412.50/2,500		
MC74HC393AN	MC74HC393ANOS-ND	Dual 4-Stage Binary Ripple Counter	14-Dip	.68	.55	.41
MC74HC540AN	MC74HC540ANOS-ND	Tri-State Octal Inverting Buffer/Line Driver/Receiver	20-Dip	1.12	.90	.68
MC74HC541ADWR2	MC74HC541ADWROSCT-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver	20-SOIC	.83	.67	.50
MC74HC541AN	MC74HC541ANOS-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver	20-Dip	1.12	.90	.68
MC74HC573AN	MC74HC573ANOS-ND	Tri-State Octal Non-Inverting Transparent Latch	20-Dip	1.12	.90	.68
MC74HC574ADWR2	MC74HC574ADWROSCT-ND	Tri-State Octal Non-Inverting D-Type Flip-Flop	20-SOIC	.82	.62	.46
MC74HC574AN	MC74HC574ANOS-ND	Tri-State Octal Non-Inverting D-Type Flip-Flop	20-Dip	1.12	.90	.68
MC74HC589AN	MC74HC589ANOS-ND	Tri-State Serial Shift Register	16-Dip	.69	.52	.39
MC74HC595ADR2	MC74HC595ADR2OSCT-ND	Tri-State Shift Register	16-SOIC	.72	.58	.44
MC74HC595AN	MC74HC595ANOS-ND	Tri-State Shift Register	16-Dip	.70	.53	.40
MC74HC4020AN	MC74HC4020ANOS-ND	14-Stage Binary Ripple Counter	16-Dip	.61	.46	.35
MC74HC4040ADR2	MC74HC4040ADROSCT-ND	12-Stage Binary Ripple Counter	16-SOIC	.72	.58	.44
MC74HC4040ADR2	MC74HC4040ADROSTR-ND	12-Stage Binary Ripple Counter	16-SOIC	477.50/2,500		
MC74HC4040AN	MC74HC4040ANOS-ND	12-Stage Binary Ripple Counter	16-Dip	.63	.47	.36
MC74HC4046AN	MC74HC4046ANOS-ND	PLL CMOS	16-Dip	.70	.53	.40
MC74HC4051ADTR2	MC74HC4051ADTOSCT-ND	Analog Mux/Demux	16-TSSOP	.66	.54	.40
MC74HC4051ADWR2	MC74HC4051ADWOSCT-ND	Analog Mux/Demux	16-SOIC	.90	.72	.54
MC74HC4051AN	MC74HC4051ANOS-ND	Analog Mux/Demux	16-Dip	.75	.61	.46
MC74HC4052ADWR2	MC74HC4052ADWOSCT-ND	Dual Analog Mux/Demux	16-SOIC	.90	.72	.54
MC74HC4052ADWR2	MC74HC4052ADWOSTR-ND	Dual Analog Mux/Demux	16-SOIC	295.00/1,000		
MC74HC4052AN	MC74HC4052ANOS-ND	Dual Analog Mux/Demux	16-Dip	.75	.61	.46
MC74HC4053AD	MC74HC4053ADOS-ND	Triple Analog Mux/Demux	16-SOIC	.66	.54	.40
MC74HC4053ADTR2	MC74HC4053ADTOSCT-ND	Triple Analog Mux/Demux	16-TSSOP	.68	.55	.41
MC74HC4053ADTR2	MC74HC4053ADTOSTR-ND	Triple Analog Mux/Demux	16-TSSOP	512.50/2,500		
MC74HC4053ADTR2G	MC74HC4053ADTGOSCT-ND	Triple Analog Mux/Demux*	16-TSSOP	.68	.55	.41
MC74HC4053ADTR2G	MC74HC4053ADTGOSTR-ND	Triple Analog Mux/Demux*	16-TSSOP	512.50/2,500		
MC74HC4053ADWR2	MC74HC4053ADWOSCT-ND	Triple Analog Mux/Demux	16-SOIC	.90	.72	.54
MC74HC4053ADWR2	MC74HC4053ADWOSTR-ND	Triple Analog Mux/Demux	16-SOIC	310.00/1,000		
MC74HC4053AN	MC74HC4053ANOS-ND	Triple Analog Mux/Demux	16-Dip	.75	.61	.46
MC74HC4060ADR2	MC74HC4060ADROSCT-ND	14-Stage Binary Ripple Counter with Oscillator	16-SOIC	.72	.58	.44
MC74HC4060ADR2	MC74HC4060ADROSTR-ND	14-Stage Binary Ripple Counter with Oscillator	16-SOIC	477.50/2,500		
MC74HC4060AN	MC74HC4060ANOS-ND	14-Stage Binary Ripple Counter with Oscillator	16-Dip	.68	.55	.41
MC74HC4066ADR2	MC74HC4066ADROSCT-ND	Quad Analog Switch/Mux/Demux	14-SOIC	.49	.40	.30
MC74HC4066ADR2G	MC74HC4066ADR2GOSCT-ND	Quad Analog Switch/Mux/Demux* ***NEW!***	14-SOIC	.49	.40	.30
MC74HC4066ADR2G	MC74HC4066ADR2GOSTR-ND	Quad Analog Switch/Mux/Demux* ***NEW!***	14-SOIC	367.50/2,500		
MC74HC4066AN	MC74HC4066ANOS-ND	Quad Analog Switch/Mux/Demux	14-Dip	.56	.42	.32
MC74HC4852ADR2	MC74HC4852ADROSCT-ND	Analog Mux/Demux	16-SOIC	1.18	1.03	.79
MC74HC4852ADR2G	MC74HC4852ADR2GOSCT-ND	Analog Mux/Demux* ***NEW!***	16-SOIC	1.20	1.05	.81
MC74HC4852ADR2G	MC74HC4852ADR2GOSTR-ND	Analog Mux/Demux* ***NEW!***	16-SOIC	1065.00/2,500		
MC74HC1G04DFT1	MC74HC1G04DFTOSCT-ND	Single Inverter	SOT-353	.20	.17	.13
MC74HCT04ADR2	MC74HCT04ADR2OSCT-ND	Hex Inverter	14-SOIC	.55	.43	.31
MC74HCT04AN	MC74HCT04ANOS-ND	Hex Inverter	14-Dip	.61	.49	.37
MC74HCT14ADR2	MC74HCT14ADR2OSCT-ND	Hex Schmitt-Trigger Inverter	14-SOIC	.52	.42	.32
MC74HCT14AN	MC74HCT14ANOS-ND	Hex Schmitt-Trigger Inverter	14-Dip	.66	.54	.40
MC74HCT74ADR2	MC74HCT74ADR2OSCT-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	.52	.42	.32
MC74HCT74ADR2	MC74HCT74ADR2OSTR-ND	Dual D-Type Flip-Flop with Set/Reset	14-SOIC	367.50/2,500		
MC74HCT74AN	MC74HCT74ANOS-ND	Dual D-Type Flip-Flop with Set/Reset	14-Dip	.66	.54	.40
MC74HCT138AN	MC74HCT138ANOS-ND	1-8 Decoder/Demux	16-Dip	.69	.56	.42
MC74HCT244ADTR2	MC74HCT244ADTOSCT-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver	20-TSSOP	.71	.57	.43
MC74HCT244ADTR2	MC74HCT244ADTOSTR-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver	20-TSSOP	535.00/2,500		
MC74HCT244ADTR2G	MC74HCT244ADTGOSCT-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver*	20-TSSOP	.71	.57	.43
MC74HCT244ADTR2G	MC74HCT244ADTGOSTR-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver*	20-TSSOP	535.00/2,500		
MC74HCT244ADWR2	MC74HCT244ADWOSCT-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver	20-SOIC	.82	.62	.46
MC74HCT244ADWR2	MC74HCT244ADWOSTR-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver	20-SOIC	272.00/1,000		
MC74HCT244AN	MC74HCT244ANOS-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver	20-Dip	1.12	.90	.68
MC74HCT245ADWR2	MC74HCT245ADWOSCT-ND	Tri-State Octal Non-Inverting Bus Transceiver	20-SOIC	.82	.62	.46
MC74HCT245AN	MC74HCT245ANOS-ND	Tri-State Octal Non-Inverting Bus Transceiver	20-Dip	1.12	.90	.68
MC74HCT273ADWR2	MC74HCT273ADWOSCT-ND	Octal D-Type Flip-Flop with Common Clock and Reset	20-SOIC	.82	.62	.46
MC74HCT273ADWR2	MC74HCT273ADWOSTR-ND	Octal D-Type Flip-Flop with Common Clock and Reset	20-SOIC	272.00/1,000		
MC74HCT373ADWR2	MC74HCT373ADWOSCT-ND	Tri-State Octal Non-Inverting Transparent Latch	20-SOIC	.82	.62	.46
MC74HCT373ADWR2	MC74HCT373ADWOSTR-ND	Tri-State Octal Non-Inverting Transparent Latch	20-SOIC	272.00/1,000		

* ***RoHS Compliant***

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ON Semiconductor™ INTEGRATED CIRCUITS *(Continued)*

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC74HCT373AN	MC74HCT373ANOS-ND	Tri-State Octal Non-Inverting Transparent Latch	20-Dip	1.12	.90	.68
MC74HCT374ADWR2	MC74HCT374ADWOSCT-ND	Tri-State Octal Non-Inverting D-Type Flip-Flop	20-SOIC	.82	.62	.46
MC74HCT541AN	MC74HCT541ANOS-ND	Tri-State Octal Non-Inverting Buffer/Line Driver/Receiver	20-Dip	1.12	.90	.68
MC74HCT573ADWR2	MC74HCT573ADWOSCT-ND	Tri-State Octal Non-Inverting Transparent Latch	20-SOIC	.82	.62	.46
MC74HCT573AN	MC74HCT573ANOS-ND	Tri-State Octal Non-Inverting Transparent Latch	20-Dip	1.12	.90	.68
MC74HCT574ADWR2	MC74HCT574ADWOSCT-ND	Tri-State Octal Non-Inverting D-Type Flip-Flop	20-SOIC	.82	.62	.46
MC74HCT574ADWR2	MC74HCT574ADWOSTR-ND	Tri-State Octal Non-Inverting D-Type Flip-Flop	20-SOIC	272.00/1,000		
MC74HCU04ADR2	MC74HCU04ADR2OSCT-ND	Hex Unbuffered Inverter	14-SOIC	.55	.43	.31
MC74LCX00DTR2	MC74LCX00DTR2OSCT-ND	Low Voltage CMOS Quad 2-Input NAND Gate	14-TSSOP	.50	.40	.30
MC74LCX00DTR2	MC74LCX00DTR2OSTR-ND	Low Voltage CMOS Quad 2-Input NAND Gate	14-TSSOP	335.00/2,500		
MC74LCX04D	MC74LCX04DOS-ND	Low Voltage CMOS Hex Inverter	14-SOIC	.50	.40	.30
MC74LCX04DTR2G	MC74LCX04DTR2GOSCT-ND	Low Voltage CMOS Hex Inverter*	14-TSSOP	.50	.41	.31
MC74LCX04DTR2G	MC74LCX04DTR2GOSTR-ND	Low Voltage CMOS Hex Inverter*	14-TSSOP	377.50/2,500		
MC74LCX08DTR2	MC74LCX08DTR2OSCT-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-TSSOP	.50	.40	.30
MC74LCX08DTR2	MC74LCX08DTR2OSTR-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-TSSOP	335.00/2,500		
MC74LCX244DTR2	MC74LCX244DTROSCT-ND	Low Voltage CMOS Octal Buffer	20-TSSOP	.61	.46	.35
MC74LCX244DWR2	MC74LCX244DWROSCT-ND	Low Voltage CMOS Octal Buffer	20-SOIC	.86	.69	.52
MC74LCX245DW	MC74LCX245DWOS-ND	Low Volt. CMOS Octal Transceiver	20-SOIC	.86	.69	.52
MC74LCX16244DTR2	MC74LCX16244DOSCT-ND	Low Voltage CMOS 16-Bit Buffer	48-TSSOP	1.04	.83	.63
MC74LCX16245DTR2	MC74LCX16245DOSCT-ND	Low Volt. CMOS 16-Bit Transceiver	48-TSSOP	1.04	.83	.63
MC74LVX4053D	MC74LVX4053DOS-ND	Analog Mux/Demux	16-SOIC	.79	.63	.48
MC74LVX4053DG	MC74LVX4053DGOS-ND	Analog Mux/Demux* ***NEW!***	16-SOIC	.80	.65	.49
MC74VHC1G00DFT2	MC74VHC1G00DFOSCT-ND	Single 2-Input NAND Gate	SOT-353	.60	.48	.36
MC74VHC1G00DFT2G	MC74VHC1G00DFT2GOSCT-ND	Single 2-Input NAND Gate* ***NEW!***	SOT-353	.46	.32	.22
MC74VHC1G00DFT2G	MC74VHC1G00DFT2GOSTR-ND	Single 2-Input NAND Gate* ***NEW!***	SOT-353	249.00/3,000		
MC74VHC1G04DFT1	MC74VHC1G04DFOSCT-ND	Single Inverter	SOT-353	.33	.26	.18
MC74VHC1G04DFT1	MC74VHC1G04DFOSTR-ND	Single Inverter	SOT-353	222.00/3,000		
MC74VHC1G04DFT2	MC74VHC1G04DOSCT-ND	Single Inverter	SOT-353	.33	.26	.18
MC74VHC1G04DFT2	MC74VHC1G04DOSTR-ND	Single Inverter	SOT-353	222.00/3,000		
MC74VHC1G04DFT2G	MC74VHC1G04DFT2GOSCT-ND	Single Inverter* ***NEW!***	SOT-353	.46	.32	.22
MC74VHC1G04DFT2G	MC74VHC1G04DFT2GOSTR-ND	Single Inverter* ***NEW!***	SOT-353	249.00/3,000		
MC74VHC1G04DTT1	MC74VHC1G04DTOSCT-ND	Single Inverter	SOT-23-5	.39	.29	.21
MC74VHC1G07DFT1	MC74VHC1G07DFOSCT-ND	Single Non-Inverting Buffer with Open Drain	SOT-353	.20	.17	.13
MC74VHC1G07DFT1	MC74VHC1G07DFOSTR-ND	Single Non-Inverting Buffer with Open Drain	SOT-353	222.00/3,000		
MC74VHC1G07DTT1	MC74VHC1G07DTOSCT-ND	Single Non-Inverting Buffer with Open Drain Output	SOT-23-5	.39	.29	.21
MC74VHC1G08DFT1	MC74VHC1G08DOSCT-ND	Single 2-Input AND Gate	SOT-353	.20	.17	.13
MC74VHC1G08DFT1	MC74VHC1G08DOSTR-ND	Single 2-Input AND Gate	SOT-353	165.00/3,000		
MC74VHC1G08DFT2	MC74VHC1G08DFOSCT-ND	Single 2-Input AND Gate	SOT-353	.46	.32	.22
MC74VHC1G08DFT2	MC74VHC1G08DFOSTR-ND	Single 2-Input AND Gate	SOT-353	249.00/3,000		
MC74VHC1G08DFT2G	MC74VHC1G08DFT2GOSCT-ND	Single 2-Input AND Gate* ***NEW!***	SOT-353	.46	.32	.22
MC74VHC1G08DFT2G	MC74VHC1G08DFT2GOSTR-ND	Single 2-Input AND Gate* ***NEW!***	SOT-353	249.00/3,000		
MC74VHC1G08DTT1	MC74VHC1G08DTOSCT-ND	Single 2-Input AND Gate	SOT-23-5	.39	.29	.21
MC74VHC1G08DTT1	MC74VHC1G08DTOSTR-ND	Single 2-Input AND Gate	SOT-23-5	222.00/3,000		
MC74VHC1G14DFT1	MC74VHC1G14DFOSCT-ND	Single Schmitt-Trigger Inverter	SOT-353	.33	.26	.18
MC74VHC1G14DFT1G	MC74VHC1G14DFT1GOSCT-ND	Single Schmitt-Trigger Inverter* ***NEW!***	SOT-353	.46	.32	.22
MC74VHC1G14DFT1G	MC74VHC1G14DFT1GOSTR-ND	Single Schmitt-Trigger Inverter* ***NEW!***	SOT-353	249.00/3,000		
MC74VHC1G14DTT1	MC74VHC1G14DTOSCT-ND	Single Schmitt-Trigger Inverter	SOT-23-5	.39	.29	.21
MC74VHC1G14DTT1	MC74VHC1G14DTOSTR-ND	Single Schmitt-Trigger Inverter	SOT-23-5	222.00/3,000		
MC74VHC1G32DFT2	MC74VHC1G32DFOSCT-ND	Single 2-Input OR Gate	SOT-353	.46	.32	.22
MC74VHC1G32DFT2	MC74VHC1G32DFOSTR-ND	Single 2-Input OR Gate	SOT-353	249.00/3,000		
MC74VHC1G32DFT2G	MC74VHC1G32DFT2GOSCT-ND	Single 2-Input OR Gate* ***NEW!***	SOT-353	.46	.32	.22
MC74VHC1G32DFT2G	MC74VHC1G32DFT2GOSTR-ND	Single 2-Input OR Gate* ***NEW!***	SOT-353	249.00/3,000		
MC74VHC1G50DFT2	MC74VHC1G50DFOSCT-ND	High Speed CMOS Buffer	SOT-353	.43	.32	.23
MC74VHC1G50DFT2	MC74VHC1G50DFOSTR-ND	High Speed CMOS Buffer	SOT-353	273.00/3,000		
MC74VHC1G50DFT2G	MC74VHC1G50DFT2GOSCT-ND	High Speed CMOS Buffer* ***NEW!***	SOT-353	.46	.32	.22
MC74VHC1G50DFT2G	MC74VHC1G50DFT2GOSTR-ND	High Speed CMOS Buffer* ***NEW!***	SOT-353	249.00/3,000		
MC74VHC1G66DTT1	MC74VHC1G66DTOSCT-ND	Single Supply Analog Switch	SOT-23-5	.39	.29	.21
MC74VHC1G66DTT1G	MC74VHC1G66DTT1GOSCT-ND	Single Supply Analog Switch* ***NEW!***	SOT-23-5	.39	.29	.21
MC74VHC1G66DTT1G	MC74VHC1G66DTT1GOSTR-ND	Single Supply Analog Switch* ***NEW!***	SOT-23-5	246.00/3,000		
MC74VHC1G125DFT2	MC74VHC1G125OSCT-ND	Tri-State Non-Inverting Buffer	SOT-353	.33	.27	.19
MC74VHC1G125DFT2	MC74VHC1G125OSTR-ND	Tri-State Non-Inverting Buffer	SOT-353	258.00/3,000		
M74VHC1G125DFT2G	M74VHC1G125DFT2GOSCT-ND	Tri-St. Non-Inverting Buffer* ***NEW!***	SOT-353	.46	.32	.22
M74VHC1G125DFT2G	M74VHC1G125DFT2GOSTR-ND	Tri-St. Non-Inverting Buffer* ***NEW!***	SOT-353	249.00/3,000		
MC74VHC1G125DTT1	MC74VHC1G125DOSCT-ND	Tri-State Non-Inverting Buffer	SOT-23-5	.39	.29	.21
MC74VHC1G126DFT1	MC74VHC1G126DOSCT-ND	Tri-State Non-Inverting Buffer	SOT-353	.25	.21	.16
MC74VHC1G126DFT1	MC74VHC1G126DOSTR-ND	Tri-State Non-Inverting Buffer	SOT-353	273.00/3,000		
MC74VHC1G132DFT1	MC74VHC1G132DOSCT-ND	2-Input NAND Schmitt-Trigger	SOT-353	.25	.21	.16
MC74VHC1G132DFT1	MC74VHC1G132DOSTR-ND	2-Input NAND Schmitt-Trigger	SOT-353	273.00/3,000		
MC74VHC1GT04DFT1	MC74VHC1GT04DOSCT-ND	Inverting Buffer/CMOS Logic Level Shifter	SOT-353	.33	.26	.18
MC74VHC1GT04DFT1	MC74VHC1GT04DOSTR-ND	Inverting Buffer/CMOS Logic Level Shifter	SOT-353	222.00/3,000		
MC74VHC1GT08DTT1	MC74VHC1GT08DOSCT-ND	2-Input AND Gate/CMOS Logic Level Shifter	SOT-23-5	.39	.29	.21
MC74VHC1GT66DTT1	MC74VHC1GT66DOSCT-ND	Single Supply Analog Switch	SOT-23-5	.39	.29	.21
M74VHC1GT66DTT1G	M74VHC1GT66DTT1GOSCT-ND	Single Supply Analog Switch* ***NEW!***	SOT-23-5	.39	.29	.21
M74VHC1GT66DTT1G	M74VHC1GT66DTT1GOSTR-ND	Single Supply Analog Switch* ***NEW!***	SOT-23-5	246.00/3,000		
MC74VHC14DTR2	MC74VHC14DTR2OSCT-ND	Hex Schmitt Inverter	14-TSSOP	.53	.42	.32
MC74VHC139DTR2	MC74VHC139DTROSCT-ND	Dual 2-4 Decoder/Demux	16-TSSOP	.44	.34	.25
MC74VHC139DTR2	MC74VHC139DTROSTR-ND	Dual 2-4 Decoder/Demux	16-TSSOP	375.00/2,500		
MC74VHC4052DR2	MC74VHC4052DROSCT-ND	Analog Mux/Demux	16-SOIC	.69	.56	.42
MC74VHC4052DR2	MC74VHC4052DROSTR-ND	Analog Mux/Demux	16-SOIC	520.00/2,500		

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC74VHC4052DR2G	MC74VHC4052DR2GOSCT-ND	Analog Mux/Demux* ***NEW!***	16-SOIC	.71	.57	.43
MC74VHC4052DR2G	MC74VHC4052DR2GOSTR-ND	Analog Mux/Demux* ***NEW!***	16-SOIC	535.00/2,500		
MC74VHC4053DTR2	MC74VHC4053DTOSCT-ND	Analog Mux/Demux	16-TSSOP	.69	.56	.42
MC74VHC4053DTR2	MC74VHC4053DTOSTR-ND	Analog Mux/Demux	16-TSSOP	520.00/2,500		
MC74VHC4053DTR2G	MC74VHC4053DTR2GOSCT-ND	Analog Mux/Demux* ***NEW!***	16-TSSOP	.71	.57	.43
MC74VHC4053DTR2G	MC74VHC4053DTR2GOSTR-ND	Analog Mux/Demux* ***NEW!***	16-TSSOP	535.00/2,500		
MC74VHCT541ADT	MC74VHCT541ADTOS-ND	Octal Bus Buffer	20-TSSOP	.68	.51	.39
MC78FC50HT1	MC78FC50HT1OSCT-ND	5V, Micropower Voltage Regulator	SOT-89	.77	.65	.52
MC78FC50HT1	MC78FC50HT1OSTR-ND	5V, Micropower Voltage Regulator	SOT-89	341.00/1,000		
MC78L05ACPRE	MC78L05ACPREOSCT-ND	100mA, 5V, Positive Voltage Regulator	TO-92	.49	.38	.28
MC78L05ACPRE	MC78L05ACPREOSTR-ND	100mA, 5V, Positive Voltage Regulator	TO-92	228.00/2,000		
MC78L08ACDR2	MC78L08ACDR2OSCT-ND	100mA, 8V, Positive Voltage Regulator	8-SOIC	.52	.40	.29
MC78L08ACP	MC78L08ACPOS-ND	100mA, 8V, Positive Voltage Regulator	TO-92	.41	.34	.23
MC78L12ABDR2	MC78L12ABDR2OSCT-ND	100mA, 12V, Positive Volt. Regulator	8-SOIC	.51	.42	.31
MC78L12ABP	MC78L12ABPOS-ND	100mA, 12V, Positive Volt. Regulator	TO-92	.44	.36	.27
MC78L12ACDR2	MC78L12ACDR2OSCT-ND	100mA, 12V, Positive Volt. Regulator	8-SOIC	.52	.40	.29
MC78L12ACDR2	MC78L12ACDR2OSTR-ND	100mA, 12V, Positive Volt. Regulator	8-SOIC	285.00/2,500		
MC78L15ACDR2	MC78L15ACDR2OSCT-ND	100mA, 15V, Positive Volt. Regulator	8-SOIC	.52	.40	.29
MC78L15ACDR2	MC78L15ACDR2OSTR-ND	100mA, 15V, Positive Volt. Regulator	8-SOIC	285.00/2,500		
MC78L15ACP	MC78L15ACPOS-ND	100mA, 15V, Positive Volt. Regulator	TO-92	.41	.34	.23
MC78L18ACP	MC78L18ACPOS-ND	100mA, 18V, Positive Volt. Regulator	TO-92	.41	.34	.23
MC78L24ACP	MC78L24ACPOS-ND	100mA, 24V, Positive Volt. Regulator	TO-92	.41	.34	.23
MC78LC30NTR	MC78LC30NTROSCT-ND	80mA, 3V, Micropower Voltage Reg.	SOT-23-5	1.03	.90	.69
MC78LC30NTR	MC78LC30NTROSTR-ND	80mA, 3V, Micropower Voltage Reg.	SOT-23-5	909.00/3,000		
MC78LC33HT1	MC78LC33HT1OSCT-ND	80mA, 3.3V, Micropower Voltage Reg.	SOT-89	.93	.71	.53
MC78LC33HT1	MC78LC33HT1OSTR-ND	80mA, 3.3V, Micropower Voltage Reg.	SOT-89	310.00/1,000		
MC78LC50NTR	MC78LC50NTROSCT-ND	80mA, 5V, Micropower Voltage Reg.	SOT-23-5	1.03	.90	.69
MC78LC50NTR	MC78LC50NTROSTR-ND	80mA, 5V, Micropower Voltage Regulator	SOT-23-5	1095.00/3,000		
MC78M05BT	MC78M05BTOS-ND	500mA, 5V, Positive Voltage Regulator	TO-220	.61	.46	.35
MC78M06CT	MC78M06CTOS-ND	500mA, 6V, Positive Volt. Regulator	TO-220	.45	.34	.26
MC78M08CT	MC78M08CTOS-ND	500mA, 8V, Positive Volt. Regulator	TO-220	.67	.54	.41
MC78M12BDT	MC78M12BDTOS-ND	500mA, 12V, Positive Volt. Regulator	DPAK	.65	.50	.37
MC78M12BT	MC78M12BTOS-ND	500mA, 12V, Positive Volt. Regulator	TO-220	.61	.46	.35
MC78M12CT	MC78M12CTOS-ND	500mA, 12V, Positive Volt. Regulator	TO-220	.45	.34	.26
MC78M15BT	MC78M15BTOS-ND	500mA, 15V, Positive Volt. Regulator	TO-220	.61	.46	.35
MC78M15CT	MC78M15CTOS-ND	500mA, 15V, Positive Volt. Regulator	TO-220	.45	.34	.26
MC78M24CT	MC78M24CTOS-ND	500mA, 24V, Positive Volt. Regulator	TO-220	.45	.34	.26
MC78PC30NTR	MC78PC30NTROSCT-ND	150mA, 3V, LDO Linear Volt. Reg.	SOT-23-5	.63	.53	.42
MC78PC30NTR	MC78PC30NTROSTR-ND	150mA, 3V, LDO Linear Volt. Reg.	SOT-23-5	819.00/3,000		
MC78PC33NTR	MC78PC33NTROSCT-ND	150mA, 3.3V, LDO Linear Volt. Reg.	SOT-23-5	.63	.53	.42
MC78PC33NTRG	MC78PC33NTRGOSCT-ND	150mA, 3.3V, LDO Linear Volt. Reg.*	SOT-23-5	.96	.77	.58
MC78PC33NTRG	MC78PC33NTRGOSTR-ND	150mA, 3.3V, LDO Linear Volt. Reg.*	SOT-23-5	912.00/3,000		
MC79L05ABDR2	MC79L05ABDR2OSCT-ND	100mA, 5V, Negative Volt. Regulator	8-SOIC	.57	.46	.35
MC79L05ACDR2	MC79L05ACDR2OSCT-ND	100mA, 5V, Negative Volt. Regulator	8-SOIC	.52	.40	.29
MC79L05ACDR2	MC79L05ACDR2OSTR-ND	100mA, 5V, Negative Volt. Regulator	8-SOIC	285.00/2,500		
MC79L05ACPRA	MC79L05ACPRAOSCT-ND	100mA, 5V, Negative Volt. Regulator	TO-92	.49	.38	.28
MC79L05ACPRA	MC79L05ACPRAOSTR-ND	100mA, 5V, Negative Volt. Regulator	TO-92	228.00/2,000		
MC79L12ACDR2	MC79L12ACDR2OSCT-ND	100mA, 12V, Negative Volt. Regulator	8-SOIC	.52	.40	.29
MC79L12ACDR2	MC79L12ACDR2OSTR-ND	100mA, 12V, Negative Volt. Regulator	8-SOIC	285.00/2,500		
MC79L12ACP	MC79L12ACPOS-ND	100mA, 12V, Negative Volt. Regulator	TO-92	.41	.34	.23
MC79L15ACP	MC79L15ACPOS-ND	100mA, 15V, Negative Volt. Regulator	TO-92	.41	.34	.23
MC79M05CT	MC79M05CTOS-ND	500mA, 5V, Negative Volt. Regulator	TO-220	.45	.34	.26
MC79M12CT	MC79M12CTOS-ND	500mA, 12V, Negative Volt. Regulator	TO-220	.45	.34	.26
MC79M15CT	MC79M15CTOS-ND	500mA, 15V, Negative Volt. Regulator	TO-220	.45	.34	.26
MC100E016FN	MC100E016FNOS-ND	5V ECL 8-Bit Sync. Binary Up Counter	28-PLCC	8.33	7.50	6.65
MC100E111FN	MC100E111FNOS-ND	5V ECL 1:9 Diff. Clock Driver	28-PLCC	8.90	7.12	6.01
MC100E142FN	MC100E142FNOS-ND	5V ECL 9-Bit Shift Register	28-PLCC	9.16	8.25	7.32
MC100E143FN	MC100E143FNOS-ND	5V ECL 9-Bit Hold Register	28-PLCC	9.16	8.25	7.32
MC100E195FN	MC100E195FNOS-ND	5V ECL Prog. Delay Chip	28-PLCC	9.16	8.25	7.32
MC100E452FN	MC100E452FNOS-ND	5V ECL 5-Bit Diff. Register	28-PLCC	9.16	8.25	7.32
MC100EL01D	MC100EL01DOS-ND	5V ECL 4-In. OR/NOR	8-SOIC	5.00	4.00	3.38
MC100EL05D	MC100EL05DOS-ND	5V ECL 2-In. Diff. AND/NAND	8-SOIC	5.00	4.00	3.38
MC100EL07D	MC100EL07DOS-ND	5V ECL 2-In. XOR/XNOR	8-SOIC	5.00	4.00	3.38
MC100EL11D	MC100EL11DOS-ND	5V ECL 1:2 Diff. Fanout Buffer	8-SOIC	4.73	3.78	2.94
MC100EL16D	MC100EL16DOS-ND	5V ECL Diff. Receiver	8-SOIC	4.50	3.60	2.80
MC100EL31D	MC100EL31DOS-ND	5V ECL D Flip-Flop with Set/Reset	8-SOIC	5.50	4.40	3.72
MC100EL32D	MC100EL32DOS-ND	5V ECL 2 Divider	8-SOIC	5.00	4.00	3.38
MC100EL51D	MC100EL51DOS-ND	5V ECL Diff. Clock D Flip-Flop	8-SOIC	5.00	4.00	3.38
MC100EL57D	MC100EL57DOS-ND	5V ECL 4:1 Diff. Mux	16-SOIC	7.00	5.60	4.73
MC100EL58D	MC100EL58DOS-ND	5V ECL 2:1 Mux	8-SOIC	6.00	4.80	4.05
MC100EL90DW	MC100EL90DWOS-ND	-3.3V/-5V Triple ECL Input to PECL Output Translator	20-SOIC	9.00	7.20	6.08
MC100EL1648DR2	MC100EL1648DROSCT-ND	5V ECL Volt. Controlled Osc.	8-SOIC	8.33	7.50	6.65
MC100EL1648DR2	MC100EL1648DROSTR-ND	5V ECL Volt. Controlled Osc.	8-SOIC	15187.50/2,500		
MC100EL1648DTR2	MC100EL1648DTOSCT-ND	5V ECL Volt. Controlled Osc.	8-TSSOP	8.33	7.50	6.65
MC100EL1648DTR2	MC100EL1648DTOSTR-ND	5V ECL Volt. Controlled Osc.	8-TSSOP	15187.50/2,500		
MC100EL1648MEL	MC100EL1648MEOSCT-ND	5V ECL Volt. Controlled Osc.	14-SOIC	8.33	7.50	6.65
MC100EL1648MEL	MC100EL1648MEOSTR-ND	5V ECL Volt. Controlled Osc.	14-SOIC	12350.00/2,000		
MC100ELT23D	MC100ELT23DOS-ND	5V Dual Differential PECL to TTL Translator	8-SOIC	5.13	4.47	3.33
MC100ELT24D	MC100ELT24DOS-ND	5V TTL to Differential ECL Translator	8-SOIC	4.28	3.42	2.66
MC100ELT25D	MC100ELT25DOS-ND	-5V Diff. ECL to TTL Translator	8-SOIC	4.28	3.42	2.66
MC100EP05D	MC100EP05DOS-ND	3.3V/5V ECL 2-In. Diff. AND/NAND Gate	8-SOIC	7.90	6.32	5.34
MC100EP08DT	MC100EP08DTOS-ND	3.3V/5V ECL 2-In. Diff. XOR/XNOR Gate	8-TSSOP	7.90	6.32	5.34
MC100EP11D	MC100EP11DOS-ND	3.3V/5V ECL 1:2 Diff. Fanout Buffer	8-SOIC	6.90	5.52	4.66
MC100EP14DTG	MC100EP14DTGOS-ND	3.3V/5V, 1:5 Diff. ECL/PECL/HSTL Clock Driver	20-TSSOP	9.05	8.18	7.25
MC100EP16VTDR2	MC100EP16VTDROSCT-ND	3.3V/5V ECL Diff. Receiver/Driver with Variable Output	8-SOIC	9.00	7.20	6.08

* ***RoHS Compliant***

(Continued)

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ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC100EP16VTDR2	MC100EP16VTDROSTR-ND	3.3V/5V ECL Diff. Receiver/Driver with Variable Output	8-SOIC	13950.00/2,500		
MC100EP16VTDTR2	MC100EP16VTDTOSCT-ND	3.3V/5V ECL Diff. Receiver/Driver with Variable Output	8-TSSOP	9.00	7.20	6.08
MC100EP16VTDTR2	MC100EP16VTDTOSTR-ND	3.3V/5V ECL Diff. Receiver/Driver with Variable Output	8-TSSOP	13950.00/2,500		
MC100EP17DWR2	MC100EP17DWR2OSCT-ND	3.3V/5V ECL Quad Diff. Driver/Recvr	20-SOIC	13.58	12.23	10.84
MC100EP32DT	MC100EP32DTOS-ND	3.3V/5V ECL 2 Divider	8-TSSOP	8.00	6.40	5.40
MC100EP35DR2	MC100EP35DR2OSCT-ND	3.3V/5V ECL JK Flip-Flop	8-SOIC	9.66	8.70	7.72
MC100EP35DR2	MC100EP35DR2OSTR-ND	3.3V/5V ECL JK Flip-Flop	8-SOIC	17617.50/2,500		
MC100EP35DTR2	MC100EP35DTR2OSCT-ND	3.3V/5V ECL JK Flip-Flop	8-TSSOP	9.66	8.70	7.72
MC100EP35DTR2	MC100EP35DTR2OSTR-ND	3.3V/5V ECL JK Flip-Flop	8-TSSOP	17617.50/2,500		
MC100EP40DTR2	MC100EP40DTR2OSCT-ND	3.3V/5V ECL Diff. Phase-Freq. Detector	20-TSSOP	16.03	14.43	12.80
MC100EP52DT	MC100EP52DTOS-ND	3.3V/5V ECL Diff. Data and Clock D-Type Flip-Flop	8-TSSOP	8.00	6.40	5.40
MC100EP57DTG	MC100EP57DTGOS-ND	3.3V/5V ECL 4:1 Diff. Mux*	20-TSSOP	11.90	11.01	8.33
MC100EP90DTR2	MC100EP90DTR2OSCT-ND	-3.3V/-5V Triple ECL Input to LVPECL/PECL Output Translator	20-TSSOP	16.03	14.43	12.80
MC100EP016AFAR2	MC100EP016AFAOSCT-ND	3.3V ECL 8-Bit Sync. Binary Up Counter	32-LQFP	19.50	18.20	16.90
MC100EP016FAR2	MC100EP016FAROSCT-ND	3.3V/5V ECL 8-Bit Sync. Binary Up Counter	32-LQFP	19.50	18.20	16.90
MC100EP016FAR2	MC100EP016FAROSTR-ND	3.3V/5V ECL 8-Bit Sync. Binary Up Counter	32-LQFP	32110.00/2,000		
MC100EP101FAR2	MC100EP101FAROSCT-ND	3.3V/5V ECL Quad 4-Input OR/NOR Gate	32-LQFP	16.03	14.43	12.80
MC100EP105FAR2	MC100EP105FAROSCT-ND	3.3V/5V ECL Quad 2-Input Diff. AND/NAND Gate	32-LQFP	16.03	14.43	12.80
MC100EP105FAR2	MC100EP105FAROSTR-ND	3.3V/5V ECL Quad 2-Input Diff. AND/NAND Gate	32-LQFP	23762.00/2,000		
MC100EP116FAR2	MC100EP116FAROSCT-ND	3.3V/5V Hex Diff. Line Recvr/Driver	32-LQFP	16.03	14.43	12.80
MC100EP131FAR2	MC100EP131FAROSCT-ND	3.3V/5V ECL Quad D-Type Flip-Flop	32-LQFP	16.03	14.43	12.80
MC100EP210SFAR2	MC100EP210SFAOSCT-ND	2.5V, 1:5 Dual Differential LVDS Driver	32-LQFP	16.91	15.78	14.66
MC100EP445FAR2	MC100EP445FAROSCT-ND	3.3V/5V ECL 8-Bit Serial/Parallel Converter	32-LQFP	18.98	17.71	16.45
MC100EP446FAR2	MC100EP446FAROSCT-ND	3.3V/5V 8-Bit CMOS/ECL/TTL Data Input Parallel/Serial Converter	32-LQFP	18.98	17.71	16.45
MC100EPT21D	MC100EPT21DOS-ND	3.3V Diff. LVPECL to LVTTL Translator	8-SOIC	8.00	6.40	5.40
MC100EPT21DT	MC100EPT21DTOS-ND	3.3V Diff. LVPECL to LVTTL Translator	8-TSSOP	8.00	6.40	5.40
MC100EPT23D	MC100EPT23DOS-ND	3.3V Dual Diff. LVPECL to LVTTL Translator	8-SOIC	8.00	6.40	5.40
MC100EPT25D	MC100EPT25DOS-ND	-3.3V/-5V Diff. ECL to +3.3V LVTTL Translator	8-SOIC	8.00	6.40	5.40
MC100EPT26D	MC100EPT26DOS-ND	3.3V 1:2 Fanout Diff. LVPECL to LVTTL Translator	8-SOIC	8.00	6.40	5.40
MC100EPT26DT	MC100EPT26DTOS-ND	3.3V 1:2 Fanout Diff. LVPECL to LVTTL Translator	8-TSSOP	8.00	6.40	5.40
MC100EPT622FAR2	MC100EPT622FAOSCT-ND	3.3V LVTTL/LVCMOS to LVPECL Translator	32-LQFP	16.50	15.40	14.30
MC100LVE111FNR2	MC100LVE111FNOSCT-ND	3.3V ECL 1:9 Diff. Clock Driver	28-PLCC	8.90	7.12	6.01
MC100LVE222FA	MC100LVE222FAOS-ND	3.3V ECL 1:15 Diff. Half Clock Driver	52-LQFP	10.00	9.00	7.98
MC100LVE310FN	MC100LVE310FNOS-ND	3.3V ECL 2:8 Diff. Fanout Buffer	28-PLCC	8.20	6.56	5.54
MC100LVEL05D	MC100LVEL05DOS-ND	3.3V ECL 2-In. Diff. AND/NAND Gate	8-SOIC	6.00	4.80	4.05
MC100LVEL11DR2	MC100LVEL11DROSCT-ND	3.3V ECL 1:2 Diff. Fanout Buffer	8-SOIC	4.73	3.78	2.94
MC100LVEL11DR2	MC100LVEL11DROSTR-ND	3.3V ECL 1:2 Diff. Fanout Buffer	8-SOIC	6615.00/2,500		
MC100LVEL11DT	MC100LVEL11DTOS-ND	3.3V ECL 1:2 Diff. Fanout Buffer	8-TSSOP	4.73	3.78	2.94
MC100LVEL13DW	MC100LVEL13DWOS-ND	3.3V ECL Dual 1:3 Fanout Buffer	20-SOIC	10.71	9.65	8.56
MC100LVEL14DWR2	MC100LVEL14DWOSCT-ND	3.3V ECL 1:5 Clock Dist. Chip	20-SOIC	9.00	7.20	6.08
MC100LVEL14DWR2	MC100LVEL14DWOSTR-ND	3.3V ECL 1:5 Clock Dist. Chip	20-SOIC	5625.00/1,000		
MC100LVEL16D	MC100LVEL16DOS-ND	3.3V ECL Diff. Receiver	8-SOIC	4.50	3.60	2.80
MC100LVEL29DW	MC100LVEL29DWOS-ND	3.3V ECL Dual Diff. Data/Clock D Flip-Flop with Set/Reset	20-SOIC	9.00	7.20	6.08
MC100LVEL51D	MC100LVEL51DOS-ND	3.3V ECL Diff. Clock D Flip-Flop	8-SOIC	6.00	4.80	4.05
MC100LVEL90DW	MC100LVEL90DWOS-ND	-3.3V/-5V Triple ECL Input to LVPECL Output Translator	20-SOIC	9.00	7.20	6.08
MC100LVEL92DW	MC100LVEL92DWOS-ND	5V Triple PECL Input to LVPECL Output Translator	20-SOIC	9.00	7.20	6.08
MC100LVELT22D	MC100LVELT22DOS-ND	3.3V Dual LVTTL/LVCMOS to Diff. LVPECL Translator	8-SOIC	4.28	3.42	2.66
MC100LVELT23D	MC100LVELT23DOS-ND	3.3V Dual Diff. LVPECL to LVTTL Translator	8-SOIC	4.28	3.42	2.66
MC100LVEP11DT	MC100LVEP11DTOS-ND	2.5V/3.3V ECL 1:2 Diff. Fanout Buffer	8-TSSOP	6.90	5.52	4.66
MC100LVEP34DR2	MC100LVEP34DROSCT-ND	2.5V/3.3V ECL 2, 4, 8 Clock Generation Chip	16-SOIC	16.03	14.43	12.80
MC100LVEP111FA	MC100LVEP111FAOS-ND	2.5V/3.3V, 1:10 Diff. ECL/PECL/HSTL Clock Driver	32-LQFP	10.00	9.00	7.98
MC100LVEP210FA	MC100LVEP210FAOS-ND	2.5V/3.3V, 1:5 Dual Diff. ECL/PECL/HSTL Clock Driver	32-LQFP	11.58	10.43	9.25
MC1403DR2	MC1403DR2OSCT-ND	Low Voltage Reference	8-SOIC	1.24	1.08	.83
MC1403DR2	MC1403DR2OSTR-ND	Low Voltage Reference	8-SOIC	947.50/2,500		
MC1413BDR2	MC1413BDR2OSCT-ND	High Voltage, High Current Darlington Transistor Array	16-SOIC	.68	.55	.41
MC1413BDR2	MC1413BDR2OSTR-ND	High Voltage, High Current Darlington Transistor Array	16-SOIC	535.00/2,500		
MC1413BP	MC1413BPOS-ND	High Voltage, High Current Darlington Transistor Array	16-Dip	.73	.59	.44
MC1413DR2	MC1413DR2OSCT-ND	High Voltage, High Current Darlington Transistor Array	16-SOIC	.74	.59	.45
MC1413DR2	MC1413DR2OSTR-ND	High Voltage, High Current Darlington Transistor Array	16-SOIC	552.50/2,500		
MC1455D	MC1455DOS-ND	Monolithic Timing Circuit	8-SOIC	.58	.47	.36
MC1455P1	MC1455P1OS-ND	Monolithic Timing Circuit	8-Dip	.56	.42	.32
MC1488DR2	MC1488DR2OSCT-ND	Quad Line EIA-232D Driver	14-SOIC	.67	.54	.41

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MC1488DR2	MC1488DR2OSTR-ND	Quad Line EIA-232D Driver	14-SOIC	395.00/2,500		
MC1488P	MC1488POS-ND	Quad Line EIA-232D Driver	14-Dip	.65	.50	.37
MC1489ADR2	MC1489ADR2OSCT-ND	Quad Line EIA-232D Receiver	14-SOIC	.74	.59	.45
MC1489ADR2	MC1489ADR2OSTR-ND	Quad Line EIA-232D Receiver	14-SOIC	417.50/2,500		
MC1489AP	MC1489APOS-ND	Quad Line EIA-232D Receiver	14-Dip	.68	.51	.39
MC1489D	MC1489DOS-ND	Quad Line EIA-232D Receiver	14-SOIC	.58	.47	.36
MC1489P	MC1489POS-ND	Quad Line EIA-232D Receiver	14-Dip	.65	.50	.37
MC1496P	MC1496POS-ND	Balanced Modulator/Demodulator	14-Dip	.98	.74	.56
MC3303P	MC3303POS-ND	Single Supply Quad Op Amp	14-Dip	.75	.56	.43
MC3403DR2	MC3403DR2OSCT-ND	Single Supply Quad Op Amp	14-SOIC	.61	.46	.35
MC3423D	MC3423DOS-ND	Overvoltage Crowbar Sensing Circuit	8-SOIC	.84	.70	.56
MC3479P	MC3479POS-ND	Stepper Motor Driver	16-Dip	4.93	4.30	3.20
MC3488AP1	MC3488AP1OS-ND	Dual Line Driver	8-Dip	1.00	.84	.67
MC7805ACT	MC7805ACTOS-ND	1A, 5V, Positive Voltage Regulator	TO-220	.71	.57	.43
MC7805BDTRK	MC7805BDTRKOSCT-ND	1A, 5V, Positive Voltage Regulator	DPAK	.89	.72	.54
MC7805BDTRK	MC7805BDTRKOSTR-ND	1A, 5V, Positive Voltage Regulator	DPAK	707.50/2,500		
MC7805BT	MC7805BTOS-ND	1A, 5V, Positive Voltage Regulator	TO-220	.71	.57	.43
MC7806CT	MC7806CTOS-ND	1A, 6V, Positive Voltage Regulator	TO-220	.67	.54	.41
MC7808ACT	MC7808ACTOS-ND	1A, 8V, Positive Voltage Regulator	TO-220	.71	.57	.43
MC7808BT	MC7808BTOS-ND	1A, 8V, Positive Voltage Regulator	TO-220	.71	.57	.43
MC7808CD2T	MC7808CD2TOS-ND	1A, 8V, Positive Voltage Regulator	D2PAK	.79	.60	.45
MC7808CT	MC7808CTOS-ND	1A, 8V, Positive Voltage Regulator	TO-220	.67	.54	.41
MC7809CT	MC7809CTOS-ND	1A, 9V, Positive Voltage Regulator	TO-220	.67	.54	.41
MC7812ACD2T	MC7812ACD2TOS-ND	1A, 12V, Positive Voltage Regulator	D2PAK	.89	.67	.50
MC7812ACT	MC7812ACTOS-ND	1A, 12V, Positive Voltage Regulator	TO-220	.71	.57	.43
MC7812CD2TR4	MC7812CD2TR4OSCT-ND	1A, 12V, Positive Voltage Regulator	D2PAK	1.05	.84	.63
MC7812CD2TR4	MC7812CD2TR4OSTR-ND	1A, 12V, Positive Voltage Regulator	D2PAK	222.40/800		
MC7815ACT	MC7815ACTOS-ND	1A, 15V, Positive Voltage Regulator	TO-220	.71	.57	.43
MC7815BT	MC7815BTOS-ND	1A, 15V, Positive Voltage Regulator	TO-220	.53	.40	.30
MC7815CD2TR4	MC7815CD2TR4OSCT-ND	1A, 15V, Positive Voltage Regulator	D2PAK	1.05	.84	.63
MC7815CD2TR4	MC7815CD2TR4OSTR-ND	1A, 15V, Positive Voltage Regulator	D2PAK	222.40/800		
MC7818CT	MC7818CTOS-ND	1A, 18V, Positive Voltage Regulator	TO-220	.67	.54	.41
MC7824BT	MC7824BTOS-ND	1A, 24V, Positive Voltage Regulator	TO-220	.53	.40	.30
MC7905ACT	MC7905ACTOS-ND	1A, 5V, Negative Voltage Regulator	TO-220	.53	.40	.30
MC7905.2CT	MC7905.2CTOS-ND	1A, 5.2V, Negative Voltage Regulator	TO-220	.56	.42	.32
MC7906CT	MC7906CTOS-ND	1A, 6V, Negative Voltage Regulator	TO-220	.45	.34	.26
MC7908CT	MC7908CTOS-ND	1A, 8V, Negative Voltage Regulator	TO-220	.45	.34	.26
MC7912ACT	MC7912ACTOS-ND	1A, 12V, Negative Voltage Regulator	TO-220	.53	.40	.30
MC7912CT	MC7912CTOS-ND	1A, 12V, Negative Voltage Regulator	TO-220	.45	.34	.26
MC7915ACT	MC7915CTOS-ND	1A, 15V, Negative Voltage Regulator	TO-220	.45	.34	.26
MC7915BT	MC7915BTOS-ND	1A, 15V, Negative Voltage Regulator	TO-220	.53	.40	.30
MC7915CT	MC7915CTOS-ND	1A, 15V, Negative Voltage Regulator	TO-220	.45	.34	.26
MC12026AD	MC12026ADOS-ND	1.1GHz Dual Modulus Prescaler	8-SOIC	4.28	3.42	2.66
MC12080D	MC12080DOS-ND	1.1GHz Prescaler	8-SOIC	4.28	3.42	2.66
MC14001BCP	MC14001BCPOS-ND	Quad 2-Input NOR Gate	14-Dip	.55	.45	.34
MC14001UBCP	MC14001UBCPOS-ND	Quad 2-Input NOR Gate	14-Dip	.55	.45	.34
MC14007UBCP	MC14007UBCPOS-ND	Dual Complementary Pair + Inverter	14-Dip	.55	.45	.34
MC14007UBDR2	MC14007UBDR2OSCT-ND	Dual Complementary Pair + Inverter	14-SOIC	.55	.43	.31
MC14007UBDR2	MC14007UBDR2OSTR-ND	Dual Complementary Pair + Inverter	14-SOIC	322.50/2,500		
MC14011BCP	MC14011BCPOS-ND	Quad 2-Input NAND Gate	14-Dip	.55	.45	.34
MC14011UBCP	MC14011UBCPOS-ND	Quad 2-Input NAND Gate	14-Dip	.55	.45	.34
MC14012BCP	MC14012BCPOS-ND	Dual NAND Gate	14-Dip	.58	.47	.36
MC14015BCP	MC14015BCPOS-ND	Dual 4-Bit Static Shift Register	16-Dip	.61	.46	.35
MC14016BCP	MC14016BCPOS-ND	Quad Analog Switch/Quad Mux	14-Dip	.49	.37	.28
MC14017BCP	MC14017BCPOS-ND	Decade Counter	16-Dip	.62	.47	.35
MC14020BCP	MC14020BCPOS-ND	14-Bit Binary Counter	16-Dip	.75	.56	.43
MC14021BCP	MC14021BCPOS-ND	8-Bit Static Shift Register	16-Dip	.56	.42	.32
MC14022BCP	MC14022BCPOS-ND	Octal Counter	16-Dip	.65	.50	.37
MC14023BCP	MC14023BCPOS-ND	Triple 3-Input NAND Gate	14-Dip	.58	.47	.36
MC14023BDR2	MC14023BDR2OSCT-ND	Triple 3-Input NAND Gate	14-SOIC	.46	.37	.28
MC14024BCP	MC14024BCPOS-ND	7-Stage Ripple Counter	14-Dip	.58	.44	.33
MC14024BD	MC14024BDOS-ND	7-Stage Ripple Counter	14-SOIC	.49	.40	.30
MC14025BCP	MC14025BCPOS-ND	Triple 3-Input NOR Gate	14-Dip	.58	.47	.36
MC14027BCP	MC14027BCPOS-ND	Dual J-K Flip-Flop	16-Dip	.56	.42	.32
MC14029BCP	MC14029BCPOS-ND	Binary/Decade Up/Down Counter	16-Dip	.65	.50	.37
MC14040BCP	MC14040BCPOS-ND	12-Bit Binary Counter	16-Dip	.64	.49	.37
MC14043BCP	MC14043BCPOS-ND	Quad R-S Latch	16-Dip	.65	.50	.37
MC14044BCP	MC14044BCPOS-ND	Quad R-S Latch	16-Dip	.69	.52	.39
MC14046BCP	MC14046BCPOS-ND	Phase Locked Loop	16-Dip	.70	.53	.40
MC14046BDWR2	MC14046BDWR2OSCT-ND	Phase Locked Loop	16-SOIC	.97	.78	.59
MC14049BCP	MC14049BCPOS-ND	Hex Inverter/Buffer	16-Dip	.56	.42	.32
MC14049UBDR2	MC14049UBDR2OSCT-ND	Hex Inverter/Buffer	16-SOIC	.40	.30	.23
MC14050BCP	MC14050BCPOS-ND	Hex Noninverting Buffer	16-Dip	.55	.42	.32
MC14051BCP	MC14051BCPOS-ND	8-Channel, Analog Mux/Demux	16-Dip	.75	.61	.46
MC14052BCP	MC14052BCPOS-ND	Dual Analog Mux/Demux	16-Dip	.87	.70	.52
MC14053BCP	MC14053BCPOS-ND	Triple Analog Mux/Demux	16-Dip	.65	.50	.37
MC14060BCP	MC14060BCPOS-ND	14-Bit Binary Counter and Oscillator	16-Dip	.64	.49	.37
MC14060BDR2	MC14060BDR2OSCT-ND	14-Bit Binary Counter and Oscillator	16-SOIC	.49	.37	.28
MC14066BDR2	MC14066BDR2OSCT-ND	Quad Analog Switch/Quad Mux	14-SOIC	.49	.40	.30
MC14066BDR2	MC14066BDR2OSTR-ND	Quad Analog Switch/Quad Mux	14-SOIC	295.00/2,500		
MC14067BCP	MC14067BCPOS-ND	16-Channel, Analog Mux/Demux	24-Dip	1.40	1.17	.94
MC14069UBCP	MC14069UBCPOS-ND	Hex Inverter	14-Dip	.55	.45	.34
MC14069UBDR2	MC14069UBDR2OSCT-ND	Hex Inverter	14-SOIC	.55	.43	.31
MC14069UBDR2	MC14069UBDR2OSTR-ND	Hex Inverter	14-SOIC	322.50/2,500		
MC14071BCP	MC14071BCPOS-ND	Quad 2-Input OR Gate	14-Dip	.58	.47	.36
MC14073BCP	MC14073BCPOS-ND	Triple 3-Input AND Gate	14-Dip	.58	.47	.36
MC14077BCP	MC14077BCPOS-ND	Quad Exclusive NOR Gate	14-Dip	.49	.37	.28
MC14077BD	MC14077BDOS-ND	Quad Exclusive NOR Gate	14-SOIC	.41	.33	.25
MC14081BDR2	MC14081BDR2OSCT-ND	Quad 2-Input AND Gate	14-SOIC	.46	.37	.28

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ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MC14082BCP	MC14082BCPOS-ND	Dual 4-Input AND Gate	14-Dip	.55	.45	.34
MC14093BCP	MC14093BCPOS-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.49	.37	.28
MC14093BDR2	MC14093BDR2OSCT-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.49	.40	.30
MC14094BCP	MC14094BCPOS-ND	Tri-State 8-Stage Shift/Store Regulator	16-Dip	.61	.46	.35
MC14094BDR2	MC14094BDR2OSCT-ND	Tri-State 8-Stage Shift/Store Regulator	16-SOIC	.42	.32	.24
MC14099BCP	MC14099BCPOS-ND	8-Bit Addressable Latch	16-Dip	.77	.65	.52
MC14106BCP	MC14106BCPOS-ND	Hex Schmitt Trigger	14-Dip	.51	.39	.29
MC14106BDR2	MC14106BDR2OSCT-ND	Hex Schmitt Trigger	14-SOIC	.47	.38	.29
MC14174BCP	MC14174BCPOS-ND	Hex D-Type Flip-Flop	16-Dip	.58	.44	.33
MC14490P	MC14490POS-ND	Hex Contact Bounce Eliminator	16-Dip	5.12	4.10	3.19
MC14503BCP	MC14503BCPOS-ND	Tri-State Hex Non-Inverting Buffer	16-Dip	.72	.55	.41
MC14511BCP	MC14511BCPOS-ND	BCD-to-Seven Segment Latch/Decoder/Driver	16-Dip	.75	.56	.43
MC14511BD	MC14511BDOS-ND	BCD-to-Seven Segment Latch/Decoder/Driver	16-SOIC	.51	.39	.29
MC14512BCP	MC14512BCPOS-ND	8-Channel Data Selector	16-Dip	.64	.49	.37
MC14513BCP	MC14513BCPOS-ND	BCD-to-Seven Segment Latch/Decoder/Driver	18-Dip	1.60	1.29	.97
MC14516BCP	MC14516BCPOS-ND	Binary Up/Down Counter	16-Dip	.79	.59	.45
MC14517BDW	MC14517BDWOS-ND	Dual 64-Bit Static Shift Register	16-SOIC	1.46	1.17	.88
MC14518BCP	MC14518BCPOS-ND	Dual BCD Up Counter	16-Dip	.96	.84	.65
MC14520BCP	MC14520BCPOS-ND	Dual Binary Counter	16-Dip	.96	.84	.65
MC14528BCP	MC14528BCPOS-ND	Dual Mono Multivibrator	16-Dip	.79	.60	.45
MC14532BCP	MC14532BCPOS-ND	8-Bit Priority Encoder	16-Dip	.93	.71	.53
MC14536BCP	MC14536BCPOS-ND	Programmable Timer	16-Dip	.76	.64	.51
MC14536BDWR2	MC14536BDWR2OSCT-ND	Programmable Timer	16-SOIC	.76	.64	.51
MC14538BCP	MC14538BCPOS-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator	16-Dip	.75	.56	.43
MC14538BDR2	MC14538BDR2OSCT-ND	Dual, Retriggerable, Resettable, Monostable Multivibrator	16-SOIC	.61	.46	.35
MC14541BDR2	MC14541BDR2OSCT-ND	Programmable Timer	14-SOIC	.50	.40	.30
MC14541BDR2	MC14541BDR2OSTR-ND	Programmable Timer	14-SOIC	335.00/2,500		
MC14543BCP	MC14543BCPOS-ND	BCD-to-Seven Segment Latch/Decoder/Driver for Liquid Crystals	16-Dip	.70	.53	.40
MC14551BCP	MC14551BCPOS-ND	Quad 2-Channel Analog Mux/Demux	16-Dip	1.46	1.17	.88
MC14557BCP	MC14557BCPOS-ND	1-to-64 Bit Variable Length Shift Register	16-Dip	1.19	1.00	.80
MC14569BCP	MC14569BCPOS-ND	Programmable Divide-By-N Dual 4-Bit Binary/BCD Down Counter	16-Dip	2.90	2.53	1.88
MC14585BCP	MC14585BCPOS-ND	4-Bit Magnitude Comparator	16-Dip	.68	.55	.41
MC33039D	MC33039DOS-ND	Closed Loop Brushless Motor Adapter	8-SOIC	1.41	1.18	.94
MC33039P	MC33039POS-ND	Closed Loop Brushless Motor Adapter	8-Dip	1.41	1.18	.94
MC33060ADR2	MC33060ADR2OSCT-ND	Fixed Freq., PWM, Voltage Mode Single Ended Controller	14-SOIC	1.12	.94	.75
MC33060ADR2	MC33060ADR2OSTR-ND	Fixed Freq., PWM, Voltage Mode Single Ended Controller	14-SOIC	1212.50/2,500		
MC33063ADR2	MC33063ADR2OSCT-ND	1.5A, DC-DC Inverting Switching Regulator	8-SOIC	1.08	.94	.72
MC33063AP1	MC33063AP1OS-ND	1.5A, DC-DC Inverting Switching Regulator	8-Dip	1.09	.88	.66
MC33064D-5R2	MC33064D-5R2OSCT-ND	Undervoltage Sensing Circuit	8-SOIC	.93	.74	.56
MC33064P-5RA	MC33064P-5RAOSCT-ND	Undervoltage Sensing Circuit	TO-226AA	.93	.74	.56
MC33072DR2	MC33072DR2OSCT-ND	Dual Op Amp	8-SOIC	.61	.49	.37
MC33074ADR2	MC33074ADR2OSCT-ND	Quad Op Amp	14-SOIC	1.56	1.35	1.04
MC33077P	MC33077POS-ND	Low Noise Dual Op Amp	8-Dip	1.30	1.08	.87
MC33078DR2	MC33078DR2OSCT-ND	Low Noise Dual Op Amp	8-SOIC	.90	.73	.55
MC33079DR2	MC33079DR2OSCT-ND	Low Noise Quad Op Amp	14-SOIC	1.15	1.00	.77
MC33079DR2	MC33079DR2OSTR-ND	Low Noise Quad Op Amp	14-SOIC	872.50/2,500		
MC33079P	MC33079POS-ND	Low Noise Quad Op Amp	14-Dip	.84	.70	.56
MC33152P	MC33152POS-ND	High-Speed Dual Mosfet Driver	8-Dip	1.75	1.52	1.17
MC33160P	MC33160POS-ND	100mA, 5V Voltage Regulator	16-Dip	1.85	1.48	1.11
MC33163DWR2	MC33163DWR2OSCT-ND	3.4A Step-Up/Down/Inverting Switching Regulator	16-SOIC	2.44	1.96	1.65
MC33163DWR2	MC33163DWR2OSTR-ND	3.4A Step-Up/Down/Inverting Switching Regulator	16-SOIC	1556.00/1,000		
MC33164D-3R2	MC33164D-3R2OSCT-ND	3V, Micropower Undervoltage Sensing Circuit	8-SOIC	.90	.72	.54
MC33164D-3R2	MC33164D-3R2OSTR-ND	3V, Micropower Undervoltage Sensing Circuit	8-SOIC	710.00/2,500		
MC33164D-5R2	MC33164D-5R2OSCT-ND	5V, Micropower Undervoltage Sensing Circuit	8-SOIC	.83	.67	.50
MC33164D-5R2	MC33164D-5R2OSTR-ND	5V, Micropower Undervoltage Sensing Circuit	8-SOIC	657.50/2,500		
MC33164P-005	MC33164P-005OS-ND	5V, Micropower Undervoltage Sensing Circuit	TO-92	.83	.67	.50
MC33171D	MC33171DOS-ND	Single Supply, Low Power, Op Amp	8-SOIC	.93	.71	.53
MC33171P	MC33171POS-ND	Single Supply, Low Power, Op Amp	8-Dip	.98	.74	.56
MC33172DR2	MC33172DR2OSCT-ND	Dual Supply, Low Power, Op Amp	8-SOIC	.70	.59	.47
MC33172P	MC33172POS-ND	Dual Supply, Low Power, Op Amp	8-Dip	.98	.74	.56
MC33174DR2	MC33174DR2OSCT-ND	Quad Supply, Low Power, Op Amp	14-SOIC	.98	.82	.66
MC33174P	MC33174POS-ND	Quad Supply, Low Power, Op Amp	14-Dip	1.05	.88	.70
MC33179DR2	MC33179DR2OSCT-ND	Quad, Low Power, Low Noise, Op Amp	14-SOIC	1.50	1.31	1.01
MC33179DR2	MC33179DR2OSTR-ND	Quad, Low Power, Low Noise, Op Amp	14-SOIC	1335.00/2,500		
MC33179P	MC33179POS-ND	Quad, Low Power, Low Noise, Op Amp	14-Dip	1.09	.91	.73
MC33204P	MC33204POS-ND	Quad, Low Voltage, R/R, Op Amp	14-Dip	1.52	1.28	1.07
MC33260DR2	MC33260DR2OSCT-ND	GreenLine™ Compact Power Factor Controller	8-SOIC	1.88	1.50	1.13
MC33260DR2	MC33260DR2OSTR-ND	GreenLine™ Compact Power Factor Controller	8-SOIC	2400.00/2,500		
MC33260P	MC33260POS-ND	GreenLine™ Compact Power Factor Controller	8-Dip	1.88	1.50	1.13
MC33262DR2	MC33262DR2OSCT-ND	Power Factor Controller	8-SOIC	1.17	1.02	.78
MC33262DR2	MC33262DR2OSTR-ND	Power Factor Controller	8-SOIC	1037.50/2,500		
MC33262P	MC33262POS-ND	Power Factor Controller	8-Dip	1.17	1.02	.78
MC33269D-3.3	MC33269D-3.3OS-ND	3.3V, 800mA, Adj. Output, LDO Voltage Regulator	8-SOIC	.90	.68	.51
MC33269D-5.0	MC33269D-5.0OS-ND	5V, 800mA, Adj. Output, LDO Voltage Regulator	8-SOIC	.90	.68	.51
MC33269DTRK-5.0	MC33269DTRK-5OSCT-ND	5V, 800mA, Adj. Output, LDO Voltage Regulator	D-PAK	1.00	.87	.67
MC33274AP	MC33274APOS-ND	Quad, Single Supply, High Slew Rate, Op Amp	14-Dip	1.25	1.01	.76
MC33275DT-2.5RK	MC33275DT-2.5OSCT-ND	2.5V, 300mA, LDO Voltage Regulator	D-PAK	1.18	1.03	.79
MC33363AP	MC33363APOS-ND	High Voltage Switching Regulator	16-Dip	3.35	2.69	2.09
MC33364D1R2	MC33364D1R2OSCT-ND	Critical Conduction GreenLine™ SMPS Controller	8-SOIC	2.15	1.72	1.29
MC33364D2R2	MC33364D2R2OSCT-ND	Critical Conduction GreenLine™ SMPS Controller	8-SOIC	2.15	1.72	1.29
MC33364D2R2	MC33364D2R2OSTR-ND	Critical Conduction GreenLine™ SMPS Controller	8-SOIC	2752.50/2,500		
MC33364DR2	MC33364DR2OSCT-ND	Critical Conduction GreenLine™ SMPS Controller	16-SOIC	2.15	1.72	1.29
MC33364DR2	MC33364DR2OSTR-ND	Critical Conduction GreenLine™ SMPS Controller	16-SOIC	2752.50/2,500		
MC33501SNT1	MC33501SNT1OSCT-ND	1V, Rail-to-Rail, Single Op Amp	SOT-23-5	1.20	1.00	.80
MC33501SNT1	MC33501SNT1OSTR-ND	1V, Rail-to-Rail, Single Op Amp	SOT-23-5	1560.00/3,000		
MC33502DR2	MC33502DR2OSCT-ND	1V, Rail-to-Rail, Dual Op Amp	8-SOIC	1.46	1.17	.91
MC33502DR2	MC33502DR2OSTR-ND	1V, Rail-to-Rail, Dual Op Amp	8-SOIC	2080.00/2,500		
MC33502P	MC33502POS-ND	1V, Rail-to-Rail, Dual Op Amp	8-Dip	1.63	1.30	.98
MC33503SNT1	MC33503SNT1OSCT-ND	1V, Rail-to-Rail, Single Op Amp	SOT-23-5	1.20	1.00	.80
MC33503SNT1	MC33503SNT1OSTR-ND	1V, Rail-to-Rail, Single Op Amp	SOT-23-5	1560.00/3,000		
MC33560DTBR2	MC33560DTBR2OSCT-ND	Interface IC for Smartcard Reader/ Writer	24-TSSOP	4.20	3.36	2.84
MC33560DTBR2	MC33560DTBR2OSTR-ND	Interface IC for Smartcard Reader/ Writer	24-TSSOP	6615.00/2,500		
MC33560DWR2	MC33560DWR2OSCT-ND	Interface IC for Smartcard Reader/ Writer	24-SOIC	4.20	3.36	2.84
MC33560DWR2	MC33560DWR2OSTR-ND	Interface IC for Smartcard Reader/ Writer	24-SOIC	2678.00/1,000		
MC33567D-1R2	MC33567D-1R2OSCT-ND	1.818V Dual Linear Controller	8-SOIC	.79	.63	.49
MC33567D-1R2	MC33567D-1R2OSTR-ND	1.818V Dual Linear Controller	8-SOIC	1137.50/2,500		
MC33567D-2R2	MC33567D-2R2OSCT-ND	2.525V Dual Linear Controller	8-SOIC	.79	.63	.49
MC33567D-2R2	MC33567D-2R2OSTR-ND	2.525V Dual Linear Controller	8-SOIC	1137.50/2,500		
MC33567D-3R2	MC33567D-3R2OSCT-ND	2.3V Dual Linear Controller	8-SOIC	.79	.63	.49
MC33567D-3R2	MC33567D-3R2OSTR-ND	2.3V Dual Linear Controller	8-SOIC	1137.50/2,500		
MC33762DM-2525R2	MC33762DM-252OSCT-ND	2.5V Dual Ultra Low Noise LDO Voltage Regulator	8-Micro	1.08	.87	.68
MC33762DM-2525R2	MC33762DM-252OSTR-ND	2.5V Dual Ultra Low Noise LDO Voltage Regulator	8-Micro	2496.00/4,000		
MC33762DM-2828R2	MC33762DM-282OSCT-ND	2.8V Dual Ultra Low Noise LDO Voltage Regulator	8-Micro	1.08	.87	.68
MC33762DM-2828R2	MC33762DM-282OSTR-ND	2.8V Dual Ultra Low Noise LDO Voltage Regulator	8-Micro	2496.00/4,000		
MC33762DM-3030R2	MC33762DM-303OSCT-ND	3V Dual Ultra Low Noise LDO Voltage Regulator	8-Micro	1.08	.87	.68
MC33762DM-3030R2	MC33762DM-303OSTR-ND	3V Dual Ultra Low Noise LDO Voltage Regulator	8-Micro	2400.00/4,000		
MC34025P	MC34025POS-ND	High Speed Double-Ended PWM Controller	16-Dip	3.83	3.06	2.38
MC34060AP	MC34060APOS-ND	Fixed Freq., PWM, Voltage Mode Single Ended Controller	14-Dip	1.23	1.03	.82
MC34063AP1	MC34063AP1OS-ND	1.5A, Inverting Switch Regulator	8-Dip	.98	.85	.66
MC34064D-5R2	MC34064D-5R2OSCT-ND	Undervoltage Sensing Circuit	8-SOIC	.93	.74	.56
MC34071AP	MC34071APOS-ND	Single Supply Op Amp	8-Dip	.95	.79	.63
MC34071D	MC34071DOS-ND	Single Supply Op Amp	8-SOIC	.77	.65	.52
MC34072DR2	MC34072DR2OSCT-ND	Dual Supply Op Amp	8-SOIC	.58	.47	.36
MC34072DR2	MC34072DR2OSTR-ND	Dual Supply Op Amp	8-SOIC	757.50/2,500		
MC34072P	MC34072POS-ND	Dual Supply Op Amp	8-Dip	.98	.74	.56
MC34074ADR2	MC34074ADR2OSCT-ND	Quad Supply Op Amp	14-SOIC	1.56	1.35	1.04
MC34074ADR2	MC34074ADR2OSTR-ND	Quad Supply Op Amp	14-SOIC	1175.00/2,500		
MC34074DR2	MC34074DR2OSCT-ND	Quad Supply Op Amp	14-SOIC	1.30	1.14	.87
MC34074DR2	MC34074DR2OSTR-ND	Quad Supply Op Amp	14-SOIC	1157.50/2,500		
MC34160DWR2	MC34160DWR2OSCT-ND	100mA, 5V Voltage Regulator	16-SOIC	1.62	1.30	1.01
MC34160DWR2	MC34160DWR2OSTR-ND	100mA, 5V Voltage Regulator	16-SOIC	936.00/1,000		
MC34161DMR2	MC34161DMR2OSCT-ND	Universal Voltage Monitor	8-Micro	1.10	.88	.66
MC34161DMR2	MC34161DMR2OSTR-ND	Universal Voltage Monitor	8-Micro	2288.00/4,000		
MC34161DR2	MC34161DR2OSCT-ND	Universal Voltage Monitor	8-SOIC	1.10	.88	.66
MC34161DR2	MC34161DR2OSTR-ND	Universal Voltage Monitor	8-SOIC	1430.00/2,500		
MC34163P	MC34163POS-ND	3.4A Step-Up/Down/Inverting Switching Regulator	16-Dip	2.70	2.16	1.68
MC34164D-3R2	MC34164D-3R2OSCT-ND	3V, Micropower Undervoltage Sensing Circuit	8-SOIC	.56	.47	.38
MC34164D-5R2	MC34164D-5R2OSCT-ND	5V, Micropower Undervoltage Sensing Circuit	8-SOIC	.56	.47	.38
MC34164P-003	MC34164P-003OSCT-ND	3V, Micropower Undervoltage Sensing Circuit	TO-226AA	.90	.72	.54
MC34164P-003	MC34164P-003OSTR-ND	3V, Micropower Undervoltage Sensing Circuit	TO-226AA	496.00/2,000		
MC34164P-005	MC34164P-005OSCT-ND	5V, Micropower Undervoltage Sensing Circuit	TO-226AA	.90	.72	.54
MC34164P-005	MC34164P-005OSTR-ND	5V, Micropower Undervoltage Sensing Circuit	TO-226AA	496.00/2,000		
MC34166T	MC34166TOS-ND	3A, Inverting Switching Regulator	TO-220-5	2.33	1.87	1.41
MC34166TV	MC34166TVOS-ND	3A, Inverting Switching Regulator	TO-220-5	2.33	1.87	1.41
MC34167T	MC34167TOS-ND	5A, Inverting Switching Regulator	TO-220-5	2.81	2.45	1.82
MC34167TV	MC34167TVOS-ND	5A, Inverting Switching Regulator	TO-220-5	2.81	2.45	1.82
MC44604P	MC44604POS-ND	High Safety, Pulsed Mode Standby GreenLine™ PWM Controller	16-Dip	2.88	2.31	1.80
MC44605P	MC44605POS-ND	High Safety, Latched Mode, GreenLine™ PWM Controller	16-Dip	3.33	2.67	2.08
MC44608P40	MC44608P40OS-ND	40KHz SMPS Controller	8-Dip	2.13	1.70	1.28
MC44608P75	MC44608P75OS-ND	75KHz SMPS Controller	8-Dip	2.13	1.70	1.28
MC44608P100	MC44608P100OS-ND	100KHz SMPS Controller	8-Dip	2.13	1.70	1.28
MCH12140D	MCH12140DOS-ND	Phase-Frequency Detector	8-SOIC	8.33	7.50	6.65
MCK12140D	MCK12140DOS-ND	Phase-Frequency Detector	8-SOIC	8.33	7.50	6.65

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ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
MMBV109LT1	MMBV109LT1OSCT-ND	30V, Silicon Epicap Diode	SOT-23	.44	.33	.24
MMBV609LT1	MMBV609LT1OSCT-ND	20V, Silicon Tuning Diode	SOT-23	.34	.28	.19
MMBV809LT1	MMBV809LT1OSCT-ND	20V, Silicon Tuning Diode	SOT-23	.34	.28	.19
MMBV809LT1	MMBV809LT1OSTR-ND	20V, Silicon Tuning Diode	SOT-23	285.00/3,000		
MMBV2101LT1	MMBV2101LT1OSCT-ND	30V, Silicon Tuning Diode	SOT-23	.44	.33	.24
MMBV2101LT1	MMBV2101LT1OSTR-ND	30V, Silicon Tuning Diode	SOT-23	252.00/3,000		
MMBV2105LT1	MMBV2105LT1OSCT-ND	30V, Silicon Tuning Diode	SOT-23	.44	.33	.24
MMBV2105LT1	MMBV2105LT1OSTR-ND	30V, Silicon Tuning Diode	SOT-23	252.00/3,000		
MMBV2109LT1	MMBV2109LT1OSCT-ND	30V, Silicon Tuning Diode	SOT-23	.34	.28	.19
MMBV2109LT1	MMBV2109LT1OSTR-ND	30V, Silicon Tuning Diode	SOT-23	285.00/3,000		
MMBV3102LT1	MMBV3102LT1OSCT-ND	30V, Silicon Tuning Diode	SOT-23	.34	.28	.19
MMBV3102LT1	MMBV3102LT1OSTR-ND	30V, Silicon Tuning Diode	SOT-23	285.00/3,000		
MMBV3700LT1	MMBV3700LT1OSCT-ND	200V, High Voltage Silicon Pin Diode	SOT-23	.34	.28	.19
MMBV3700LT1	MMBV3700LT1OSTR-ND	200V, High Voltage Silicon Pin Diode	SOT-23	285.00/3,000		
MV104	MV104OS-ND	Silicon Tuning Diode	TO-92	.40	.33	.25
MV209	MV209OS-ND	Silicon Epicap Diode	TO-92	.38	.31	.22
NB100ELT23LDR2	NB100ELT23LDROSCT-ND	3.3V Dual Diff. LVPECL to LVTTL Translator	8-SOIC	4.28	3.42	2.66
NB100ELT23LDR2	NB100ELT23LDROSTR-ND	3.3V Dual Diff. LVPECL to LVTTL Translator	8-SOIC	5985.00/2,500		
NB100ELT23LDTR2	NB100ELT23LDTOSCT-ND	3.3V Dual Diff. LVPECL to LVTTL Translator	8-TSSOP	4.28	3.42	2.66
NB100ELT23LDTR2	NB100ELT23LDTOSTR-ND	3.3V Dual Diff. LVPECL to LVTTL Translator	8-TSSOP	5985.00/2,500		
NB100LVEP91DWR2	NB100LVEP91DWOSCT-ND	2.5V/3.3V Any Level Pos. In to -2.5V/-3.3V/ -5V NECL Out Translator	20-SOIC	16.03	14.43	12.80
NB100LVEP91MNR2	NB100LVEP91MNOSCT-ND	2.5V/3.3V Any Level Pos. In to -2.5V/-3.3V/ -5V NECL Out Translator	24-QFN	16.03	14.43	12.80
NB100LVEP221FAR2	NB100LVEP221FOSCT-ND	2.5V/3.3V, 1:20 Diff. HSTL/ECL/PECL Clock Driver	52-LQFP	14.16	12.75	11.31
NB100LVEP221FAR2	NB100LVEP221FOSTR-ND	2.5V/3.3V, 1:20 Diff. HSTL/ECL/PECL Clock Driver	52-LQFP	15747.00/1,500		
NB100LVEP222FAR2	NB100LVEP222FOSCT-ND	2.5V/3.3V, 1:15 Diff. ECL/PECL 1/2 Clock Driver	52-LQFP	15.00	14.00	13.00
NB100LVEP222FAR2	NB100LVEP222FOSTR-ND	2.5V/3.3V, 1:15 Diff. ECL/PECL 1/2 Clock Driver	52-LQFP	18525.00/1,500		
NB100LVEP224FAR2	NB100LVEP224FOSCT-ND	2.5V/3.3V, 1:24 Diff. ECL/PECL Clock Driver	64-LQFP	24.00	22.40	20.80
NB100LVEP224FAR2	NB100LVEP224FOSTR-ND	2.5V/3.3V, 1:24 Diff. ECL/PECL Clock Driver	64-LQFP	29640.00/1,500		
NBC12429FAR2	NBC12429FAR2OSCT-ND	3.3V/5V Programmable PLL Sync. Clock Generator	32-LQFP	9.50	8.55	7.59
NBC12429FAR2	NBC12429FAR2OSTR-ND	3.3V/5V Programmable PLL Sync. Clock Generator	32-LQFP	14080.00/2,000		
NBC12429FNR2	NBC12429FNR2OSCT-ND	3.3V/5V Programmable PLL Sync. Clock Generator	28-PLCC	9.50	8.55	7.59
NBC12429FNR2	NBC12429FNR2OSTR-ND	3.3V/5V Programmable PLL Sync. Clock Generator	28-PLCC	3562.50/500		
NBC12430FAR2	NBC12430FAR2OSCT-ND	3.3V/5V Programmable PLL Sync. Clock Generator	32-LQFP	9.50	8.55	7.59
NBC12430FAR2	NBC12430FAR2OSTR-ND	3.3V/5V Programmable PLL Sync. Clock Generator	32-LQFP	14080.00/2,000		
NBC12439FNR2	NBC12439FNR2OSCT-ND	3.3V/5V Programmable PLL Sync. Clock Generator	28-PLCC	11.66	10.50	9.31
NBC12439FNR2	NBC12439FNR2OSTR-ND	3.3V/5V Prog. PLL Sync. Clock Generator	28-PLCC	4375.00/500		
NBSG11BAR2	NBSG11BAR2OSCT-ND	2.5V/3.3V SiGe 1:2 Diff. Clock Driver with RSECL Output	16-FCBGA	42.00	39.20	36.40
NBSG11BAR2	NBSG11BAR2OSTR-ND	2.5V/3.3V SiGe 1:2 Diff. Clock Driver with RSECL Output	16-FCBGA	17500.00/500		
NBSG11MNR2	NBSG11MNR2OSCT-ND	2.5V/3.3V SiGe 1:2 Diff. Clock Driver with RSECL Output	16-QFN	42.00	39.20	36.40
NBSG14BAR2	NBSG14BAR2OSCT-ND	2.5V/3.3V SiGe Diff. 1:4 Clock/Data Driver with RSECL Output	16-FCBGA	50.40	47.04	43.68
NBSG14BAR2	NBSG14BAR2OSTR-ND	2.5V/3.3V SiGe Diff. 1:4 Clock/Data Driver with RSECL Output	16-FCBGA	21000.00/500		
NBSG14MNR2	NBSG14MNR2OSCT-ND	2.5V/3.3V SiGe Diff. 1:4 Clock/Data Driver with RSECL Output	16-QFN	50.40	47.04	43.68
NBSG14MNR2	NBSG14MNR2OSTR-ND	2.5V/3.3V SiGe Diff. 1:4 Clock/Data Driver with RSECL Output	16-QFN	122472.00/3,000		
NBSG16BAR2	NBSG16BAR2OSCT-ND	2.5V/3.3V SiGe Diff. Receiver/Driver with RSECL Output	16-FCBGA	33.71	31.46	29.22
NBSG16BAR2	NBSG16BAR2OSTR-ND	2.5V/3.3V SiGe Diff. Receiver/Driver with RSECL Output	16-FCBGA	14044.00/500		
NBSG16VSBAR2	NBSG16VSBAR2OSCT-ND	2.5V/3.3V SiGe Diff. Receiver/Driver w/Variable Output Swing	16-FCBGA	37.46	34.96	32.47
NBSG16VSBAR2	NBSG16VSBAR2OSTR-ND	2.5V/3.3V SiGe Diff. Receiver/Driver w/Variable Output Swing	16-FCBGA	15606.50/500		
NBSG16VSMNR2	NBSG16VSMNR2OSCT-ND	2.5V/3.3V SiGe Diff. Receiver/Driver w/Variable Output Swing	16-QFN	37.46	34.96	32.47
NBSG53ABAR2	NBSG53ABAR2OSCT-ND	2.5V/3.3V SiGe Selectable Diff. Clock and Data D Flip-Flop/Clock Divider with Reset and OLS	16-FCBGA	37.08	34.61	32.14
NBSG53ABAR2	NBSG53ABAR2OSTR-ND	2.5V/3.3V SiGe Selectable Diff. Clock and Data D Flip-Flop/Clock Divider with Reset and OLS	16-FCBGA	15450.00/500		
NBSG86ABAR2	NBSG86ABAR2OSCT-ND	2.5V/3.3V SiGe Diff. Smart Gate with Output Level Select	16-FCBGA	33.71	31.46	29.22
NBSG86ABAR2	NBSG86ABAR2OSTR-ND	2.5V/3.3V SiGe Diff. Smart Gate with Output Level Select	16-FCBGA	14044.00/500		
NBSG111BAR2	NBSG111BAR2OSCT-ND	2.5V/3.3V SiGe Diff. 1:10 Clock/Data Driver with RSECL Out	49-FCBGA	45.00	42.00	39.00
NBSG111BAR2	NBSG111BAR2OSTR-ND	2.5V/3.3V SiGe Diff. 1:10 Clock/Data Driver with RSECL Out	49-FCBGA	18750.00/500		
NCN6000DTBR2	NCN6000DTBR2OSCT-ND	Compact Smart Card Interface IC	20-TSSOP	2.86	2.29	1.94
NCN6000DTBR2	NCN6000DTBR2OSTR-ND	Compact Smart Card Interface IC	20-TSSOP	4505.00/2,500		
NCN6001DTBR2	NCN6001DTBR2OSCT-ND	Compact Smart Card Interface IC	20-TSSOP	3.04	2.43	1.89
NCN6001DTBR2	NCN6001DTBR2OSTR-ND	Compact Smart Card Interface IC	20-TSSOP	4252.50/2,500		
NCN6004AFTBR2	NCN6004AFTBR2OSCT-ND	Dual SAM/SIM Interface IC	48-TQFP	5.24	4.20	3.27
NCN6004AFTBR2	NCN6004AFTBR2OSTR-ND	Dual SAM/SIM Interface IC	48-TQFP	5942.00/2,000		
NCN6010DTBR2	NCN6010DTBR2OSCT-ND	SIM Card Supply and Level Shifter	14-TSSOP	2.39	1.91	1.49
NCN6011DMR2	NCN6011DMR2OSCT-ND	Low Power Level Shifter	10-Micro	1.91	1.53	1.19
NCN6011DMR2	NCN6011DMR2OSTR-ND	Low Power Level Shifter	10-Micro	4352.00/4,000		
NCN6011DTBR2	NCN6011DTBR2OSCT-ND	Low Power Level Shifter	14-TSSOP	1.91	1.53	1.19
NCN6011DTBR2	NCN6011DTBR2OSTR-ND	Low Power Level Shifter	14-TSSOP	2720.00/2,500		
NCP100SNT1	NCP100SNT1OSCT-ND	Sub 1V Precision Adj. Shunt Reg.	5-TSOP	.81	.68	.54
NCP303LSN45T1	NCP303LSN45T1OSCT-ND	4.5V, Voltage Detector	SOT-23-5	.80	.65	.49
NCP345SNT1	NCP345SNT1OSCT-ND	Over Voltage Protection IC	SOT-23-5	1.29	1.08	.86
NCP345SNT1	NCP345SNT1OSTR-ND	Over Voltage Protection IC	SOT-23-5	1677.00/3,000		
NCP500SN25T1	NCP500SN25T1OSCT-ND	2.5V, 150mA CMOS LDO Voltage Regulator	5-TSOP	.74	.60	.45
NCP500SN25T1	NCP500SN25T1OSTR-ND	2.5V, 150mA CMOS LDO Voltage Regulator	5-TSOP	636.00/3,000		
NCP500SN33T1	NCP500SN33T1OSCT-ND	3.3V, 150mA CMOS LDO Volt. Reg.	5-TSOP	.74	.60	.45
NCP502SQ15T1	NCP502SQ15T1OSCT-ND	1.5V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP502SQ15T1	NCP502SQ15T1OSTR-ND	1.5V, 80mA CMOS Voltage Regulator	SC70-5	684.00/3,000		
NCP502SQ18T1	NCP502SQ18T1OSCT-ND	1.8V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP502SQ18T1	NCP502SQ18T1OSTR-ND	1.8V, 80mA CMOS Voltage Regulator	SC70-5	684.00/3,000		
NCP502SQ25T1	NCP502SQ25T1OSCT-ND	2.5V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP502SQ25T1	NCP502SQ25T1OSTR-ND	2.5V, 80mA CMOS Voltage Regulator	SC70-5	684.00/3,000		
NCP502SQ27T1	NCP502SQ27T1OSCT-ND	2.7V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP502SQ28T1	NCP502SQ28T1OSCT-ND	2.8V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP502SQ28T1	NCP502SQ28T1OSTR-ND	2.8V, 80mA CMOS Voltage Regulator	SC70-5	684.00/3,000		
NCP502SQ30T1	NCP502SQ30T1OSCT-ND	3V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP502SQ33T1	NCP502SQ33T1OSCT-ND	3.3V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP502SQ50T1	NCP502SQ50T1OSCT-ND	5V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP511SN15T1G	NCP511SN15T1GOSCT-ND	1.5V, 150mA CMOS Low IQ, LDO Voltage Regulator*	5-TSOP	.75	.60	.45
NCP511SN15T1G	NCP511SN15T1GOSTR-ND	1.5V, 150mA CMOS Low IQ, LDO Voltage Regulator*	5-TSOP	711.00/3,000		
NCP511SN25T1G	NCP511SN25T1GOSCT-ND	2.5V, 150mA CMOS Low IQ, LDO Voltage Regulator*	5-TSOP	.75	.60	.45
NCP511SN25T1G	NCP511SN25T1GOSTR-ND	2.5V, 150mA CMOS Low IQ, LDO Voltage Regulator*	5-TSOP	711.00/3,000		
NCP511SN33T1G	NCP511SN33T1GOSCT-ND	3.3V, 150mA CMOS Low IQ, LDO Voltage Regulator*	5-TSOP	.75	.60	.45
NCP511SN33T1G	NCP511SN33T1GOSTR-ND	3.3V, 150mA CMOS Low IQ, LDO Voltage Regulator*	5-TSOP	711.00/3,000		
NCP512SQ15T1	NCP512SQ15T1OSCT-ND	1.5V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP512SQ18T1	NCP512SQ18T1OSCT-ND	1.8V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP512SQ25T1	NCP512SQ25T1OSCT-ND	2.5V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP512SQ25T1	NCP512SQ25T1OSTR-ND	2.5V, 80mA CMOS Voltage Regulator	SC70-5	819.00/3,000		
NCP512SQ27T1	NCP512SQ27T1OSCT-ND	2.7V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP512SQ28T1	NCP512SQ28T1OSCT-ND	2.8V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP512SQ30T1	NCP512SQ30T1OSCT-ND	3V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP512SQ30T1	NCP512SQ30T1OSTR-ND	3V, 80mA CMOS Voltage Regulator	SC70-5	819.00/3,000		
NCP512SQ33T1	NCP512SQ33T1OSCT-ND	3.3V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP512SQ33T1	NCP512SQ33T1OSTR-ND	3.3V, 80mA CMOS Voltage Regulator	SC70-5	684.00/3,000		
NCP512SQ50T1	NCP512SQ50T1OSCT-ND	5V, 80mA CMOS Voltage Regulator	SC70-5	.86	.70	.52
NCP552SQ28T1	NCP552SQ28T1OSCT-ND	2.8V, 80mA CMOS Voltage Regulator	SC70-4	.53	.44	.35
NCP552SQ30T1	NCP552SQ30T1OSCT-ND	3V, 80mA CMOS Voltage Regulator	SC70-4	.53	.44	.35
NCP552SQ33T1	NCP552SQ33T1OSCT-ND	3.3V, 80mA CMOS Voltage Regulator	SC70-4	.53	.44	.35
NCP552SQ33T1	NCP552SQ33T1OSTR-ND	3.3V, 80mA CMOS Voltage Regulator	SC70-4	684.00/3,000		
NCP552SQ50T1	NCP552SQ50T1OSCT-ND	5V, 80mA CMOS Voltage Regulator	SC70-4	.53	.44	.35
NCP553SQ15T1	NCP553SQ15T1OSCT-ND	1.5V, 80mA CMOS Voltage Regulator	SC70-4	.80	.65	.49
NCP553SQ15T1	NCP553SQ15T1OSTR-ND	1.5V, 80mA CMOS Voltage Regulator	SC70-4	684.00/3,000		
NCP553SQ18T1	NCP553SQ18T1OSCT-ND	1.8V, 80mA CMOS Voltage Regulator	SC70-4	.80	.65	.49
NCP553SQ18T1	NCP553SQ18T1OSTR-ND	1.8V, 80mA CMOS Voltage Regulator	SC70-4	684.00/3,000		
NCP553SQ25T1	NCP553SQ25T1OSCT-ND	2.5V, 80mA CMOS Voltage Regulator	SC70-4	.80	.65	.49
NCP553SQ27T1	NCP553SQ27T1OSCT-ND	2.7V, 80mA CMOS Voltage Regulator	SC70-4	.80	.65	.49
NCP553SQ28T1	NCP553SQ28T1OSCT-ND	2.8V, 80mA CMOS Voltage Regulator	SC70-4	.80	.65	.49
NCP553SQ30T1	NCP553SQ30T1OSCT-ND	3V, 80mA CMOS Voltage Regulator	SC70-4	.80	.65	.49
NCP553SQ30T1	NCP553SQ30T1OSTR-ND	3V, 80mA CMOS Voltage Regulator	SC70-4	762.00/3,000		
NCP553SQ33T1	NCP553SQ33T1OSCT-ND	3.3V, 80mA CMOS Voltage Regulator	SC70-4	.80	.65	.49
NCP553SQ50T1	NCP553SQ50T1OSCT-ND	5V, 80mA CMOS Voltage Regulator	SC70-4	.80	.65	.49
NCP561SN15T1	NCP561SN15T1OSCT-ND	1.5V, 150mA CMOS LDO Volt. Reg.	5-TSOP	.80	.65	.49
NCP561SN25T1	NCP561SN25T1OSCT-ND	2.5V, 150mA CMOS LDO Volt. Reg.	5-TSOP	.80	.65	.49
NCP561SN27T1	NCP561SN27T1OSCT-ND	2.7V, 150mA CMOS LDO Volt. Reg.	5-TSOP	.80	.65	.49
NCP561SN28T1	NCP561SN28T1OSCT-ND	2.8V, 150mA CMOS LDO Volt. Reg.	5-TSOP	.80	.65	.49
NCP561SN50T1	NCP561SN50T1OSCT-ND	5V, 150mA CMOS LDO Volt. Reg.	5-TSOP	.80	.65	.49
NCP561SN50T1	NCP561SN50T1OSTR-ND	5V, 150mA CMOS LDO Volt. Reg.	5-TSOP	684.00/3,000		
NCP562SQ15T1	NCP562SQ15T1OSCT-ND	1.5V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP562SQ15T1	NCP562SQ15T1OSTR-ND	1.5V, 80mA CMOS LDO Volt. Reg.	SC70-4	684.00/3,000		
NCP562SQ18T1	NCP562SQ18T1OSCT-ND	1.8V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP562SQ25T1	NCP562SQ25T1OSCT-ND	2.5V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP562SQ27T1	NCP562SQ27T1OSCT-ND	2.7V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP562SQ28T1	NCP562SQ28T1OSCT-ND	2.8V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP562SQ30T1	NCP562SQ30T1OSCT-ND	3V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP562SQ33T1	NCP562SQ33T1OSCT-ND	3.3V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP562SQ33T1	NCP562SQ33T1OSTR-ND	3.3V, 80mA CMOS LDO Volt. Reg.	SC70-4	684.00/3,000		
NCP562SQ50T1	NCP562SQ50T1OSCT-ND	5V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP563SQ15T1	NCP563SQ15T1OSCT-ND	1.5V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP563SQ15T1	NCP563SQ15T1OSTR-ND	1.5V, 80mA CMOS LDO Volt. Reg.	SC70-4	762.00/3,000		
NCP563SQ18T1	NCP563SQ18T1OSCT-ND	1.8V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP563SQ27T1	NCP563SQ27T1OSCT-ND	2.7V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP563SQ27T1	NCP563SQ27T1OSTR-ND	2.7V, 80mA CMOS LDO Volt. Reg.	SC70-4	762.00/3,000		
NCP563SQ28T1	NCP563SQ28T1OSCT-ND	2.8V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP563SQ28T1	NCP563SQ28T1OSTR-ND	2.8V, 80mA CMOS LDO Volt. Reg.	SC70-4	762.00/3,000		
NCP563SQ30T1	NCP563SQ30T1OSCT-ND	3V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP563SQ30T1	NCP563SQ30T1OSTR-ND	3V, 80mA CMOS LDO Volt. Reg.	SC70-4	684.00/3,000		
NCP563SQ50T1	NCP563SQ50T1OSCT-ND	5V, 80mA CMOS LDO Volt. Reg.	SC70-4	.80	.65	.49
NCP563SQ50T1	NCP563SQ50T1OSTR-ND	5V, 80mA CMOS LDO Volt. Reg.	SC70-4	762.00/3,000		
NCP580SQ15T1G	NCP580SQ15T1GOSCT-ND	1.5V, 120mA CMOS LDO Regulator*	SC-82AB	.71	.57	.43
NCP580SQ15T1G	NCP580SQ15T1GOSTR-ND	1.5V, 120mA CMOS LDO Regulator*	SC-82AB	642 .00/3,000		
NCP580SQ18T1G	NCP580SQ18T1GOSCT-ND	1.8V, 120mA CMOS LDO Regulator*	SC-82AB	.71	.57	.43
NCP580SQ18T1G	NCP580SQ18T1GOSTR-ND	1.8V, 120mA CMOS LDO Regulator*	SC-82AB	642.00/3,000		
NCP580SQ25T1G	NCP580SQ25T1GOSCT-ND	2.5V, 120mA CMOS LDO Regulator*	SC-82AB	.71	.57	.43
NCP580SQ25T1G	NCP580SQ25T1GOSTR-ND	2.5V, 120mA CMOS LDO Regulator*	SC-82AB	642.00/3,000		
NCP580SQ28T1G	NCP580SQ28T1GOSCT-ND	2.8V, 120mA CMOS LDO Regulator*	SC-82AB	.71	.57	.43
NCP580SQ28T1G	NCP580SQ28T1GOSTR-ND	2.8V, 120mA CMOS LDO Regulator*	SC-82AB	642.00/3,000		
NCP580SQ30T1G	NCP580SQ30T1GOSCT-ND	3V, 120mA CMOS LDO Regulator*	SC-82AB	.71	.57	.43
NCP580SQ30T1G	NCP580SQ30T1GOSTR-ND	3V, 120mA CMOS LDO Regulator*	SC-82AB	642.00/3,000		
NCP580SQ33T1G	NCP580SQ33T1GOSCT-ND	3.3V, 120mA CMOS LDO Regulator*	SC-82AB	.71	.57	.43
NCP580SQ33T1G	NCP580SQ33T1GOSTR-ND	3.3V, 120mA CMOS LDO Regulator*	SC-82AB	642.00/3,000		

* ***RoHS Compliant***

(Continued)

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NCP582DSQ15T1G	NCP582DSQ15T1OSCT-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ15T1G	NCP582DSQ15T1OSTR-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582DSQ18T1G	NCP582DSQ18T1OSCT-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ18T1G	NCP582DSQ18T1OSTR-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582DSQ25T1G	NCP582DSQ25T1OSCT-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ25T1G	NCP582DSQ25T1OSTR-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582DSQ28T1G	NCP582DSQ28T1OSCT-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ28T1G	NCP582DSQ28T1OSTR-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582DSQ30T1G	NCP582DSQ30T1OSCT-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ30T1G	NCP582DSQ30T1OSTR-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582DSQ33T1G	NCP582DSQ33T1OSCT-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582DSQ33T1G	NCP582DSQ33T1OSTR-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ15T1G	NCP582LSQ15T1OSCT-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ15T1G	NCP582LSQ15T1OSTR-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ18T1G	NCP582LSQ18T1OSCT-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ18T1G	NCP582LSQ18T1OSTR-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ25T1G	NCP582LSQ25T1OSCT-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ25T1G	NCP582LSQ25T1OSTR-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ28T1G	NCP582LSQ28T1OSCT-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ28T1G	NCP582LSQ28T1OSTR-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ30T1G	NCP582LSQ30T1OSCT-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ30T1G	NCP582LSQ30T1OSTR-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP582LSQ33T1G	NCP582LSQ33T1OSCT-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	.69	.56	.42
NCP582LSQ33T1G	NCP582LSQ33T1OSTR-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	660.00/3,000		
NCP583SQ15T1G	NCP583SQ15T1GOSCT-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	.85	.69	.52
NCP583SQ15T1G	NCP583SQ15T1GOSTR-ND	1.5V, 150mA CMOS LDO Regulator*	SC-82AB	810.00/3,000		
NCP583SQ18T1G	NCP583SQ18T1GOSCT-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	.85	.69	.52
NCP583SQ18T1G	NCP583SQ18T1GOSTR-ND	1.8V, 150mA CMOS LDO Regulator*	SC-82AB	810.00/3,000		
NCP583SQ25T1G	NCP583SQ25T1GOSCT-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	.85	.69	.52
NCP583SQ25T1G	NCP583SQ25T1GOSTR-ND	2.5V, 150mA CMOS LDO Regulator*	SC-82AB	810.00/3,000		
NCP583SQ28T1G	NCP583SQ28T1GOSCT-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	.85	.69	.52
NCP583SQ28T1G	NCP583SQ28T1GOSTR-ND	2.8V, 150mA CMOS LDO Regulator*	SC-82AB	810.00/3,000		
NCP583SQ30T1G	NCP583SQ30T1GOSCT-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	.85	.69	.52
NCP583SQ30T1G	NCP583SQ30T1GOSTR-ND	3V, 150mA CMOS LDO Regulator*	SC-82AB	810.00/3,000		
NCP583SQ33T1G	NCP583SQ33T1GOSCT-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	.85	.69	.52
NCP583SQ33T1G	NCP583SQ33T1GOSTR-ND	3.3V, 150mA CMOS LDO Regulator*	SC-82AB	810.00/3,000		
NCP584HSN09T1G	NCP584HSN09T1GOSCT-ND	0.9V, 200mA CMOS LDO Reg.*	SOT-23-5	.80	.65	.49
NCP584HSN09T1G	NCP584HSN09T1GOSTR-ND	0.9V, 200mA CMOS LDO Reg.*	SOT-23-5	762.00/3,000		
NCP584HSN12T1G	NCP584HSN12T1GOSCT-ND	1.2V, 200mA CMOS LDO Reg.*	SOT-23-5	.80	.65	.49
NCP584HSN12T1G	NCP584HSN12T1GOSTR-ND	1.2V, 200mA CMOS LDO Reg.*	SOT-23-5	762.00/3,000		
NCP584HSN18T1G	NCP584HSN18T1GOSCT-ND	1.8V, 200mA CMOS LDO Reg.*	SOT-23-5	.80	.65	.49
NCP584HSN18T1G	NCP584HSN18T1GOSTR-ND	1.8V, 200mA CMOS LDO Reg.*	SOT-23-5	762.00/3,000		
NCP584LSN09T1G	NCP584LSN09T1GOSCT-ND	0.9V, 200mA CMOS LDO Reg.*	SOT-23-5	.80	.65	.49
NCP584LSN09T1G	NCP584LSN09T1GOSTR-ND	0.9V, 200mA CMOS LDO Reg.*	SOT-23-5	762.00/3,000		
NCP584LSN12T1G	NCP584LSN12T1GOSCT-ND	1.2V, 200mA CMOS LDO Reg.*	SOT-23-5	.80	.65	.49
NCP584LSN12T1G	NCP584LSN12T1GOSTR-ND	1.2V, 200mA CMOS LDO Reg.*	SOT-23-5	762.00/3,000		
NCP584LSN18T1	NCP584LSN18T1OSCT-ND	1.8V, 200mA CMOS LDO Reg.	SOT-23-5	.68	.54	.41
NCP584LSN18T1G	NCP584LSN18T1GOSCT-ND	1.8V, 200mA CMOS LDO Reg.*	SOT-23-5	.80	.65	.49
NCP584LSN18T1G	NCP584LSN18T1GOSTR-ND	1.8V, 200mA CMOS LDO Reg.*	SOT-23-5	762.00/3,000		
NCP585DSN09T1G	NCP585DSN09T1GOSCT-ND	0.9V, 300mA CMOS LDO Reg.*	SOT-23-5	.91	.73	.55
NCP585DSN09T1G	NCP585DSN09T1GOSTR-ND	0.9V, 300mA CMOS LDO Reg.*	SOT-23-5	861.00/3,000		
NCP585DSN12T1G	NCP585DSN12T1GOSCT-ND	1.2V, 300mA CMOS LDO Reg.*	SOT-23-5	.91	.73	.55
NCP585DSN12T1G	NCP585DSN12T1GOSTR-ND	1.2V, 300mA CMOS LDO Reg.*	SOT-23-5	861.00/3,000		
NCP585DSN18T1G	NCP585DSN18T1GOSCT-ND	1.8V, 300mA CMOS LDO Reg.*	SOT-23-5	.91	.73	.55
NCP585DSN18T1G	NCP585DSN18T1GOSTR-ND	1.8V, 300mA CMOS LDO Reg.*	SOT-23-5	861.00/3,000		
NCP585HSN09T1G	NCP585HSN09T1GOSCT-ND	0.9V, 300mA CMOS LDO Reg.*	SOT-23-5	.91	.73	.55
NCP585HSN09T1G	NCP585HSN09T1GOSTR-ND	0.9V, 300mA CMOS LDO Reg.*	SOT-23-5	861.00/3,000		
NCP585HSN12T1G	NCP585HSN12T1GOSCT-ND	1.2V, 300mA CMOS LDO Reg.*	SOT-23-5	.91	.73	.55
NCP585HSN12T1G	NCP585HSN12T1GOSTR-ND	1.2V, 300mA CMOS LDO Reg.*	SOT-23-5	861.00/3,000		
NCP585HSN18T1G	NCP585HSN18T1GOSCT-ND	1.8V, 300mA CMOS LDO Reg.*	SOT-23-5	.91	.73	.55
NCP585HSN18T1G	NCP585HSN18T1GOSTR-ND	1.8V, 300mA CMOS LDO Reg.*	SOT-23-5	861.00/3,000		
NCP585LSN09T1G	NCP585LSN09T1GOSCT-ND	0.9V, 300mA CMOS LDO Reg.*	SOT-23-5	.91	.73	.55
NCP585LSN09T1G	NCP585LSN09T1GOSTR-ND	0.9V, 300mA CMOS LDO Reg.*	SOT-23-5	861.00/3,000		
NCP585LSN12T1G	NCP585LSN12T1GOSCT-ND	1.2V, 300mA CMOS LDO Reg.*	SOT-23-5	.91	.73	.55
NCP585LSN12T1G	NCP585LSN12T1GOSTR-ND	1.2V, 300mA CMOS LDO Reg.*	SOT-23-5	861.00/3,000		
NCP585LSN18T1G	NCP585LSN18T1GOSCT-ND	1.8V, 300mA CMOS LDO Reg.*	SOT-23-5	.91	.73	.55
NCP585LSN18T1G	NCP585LSN18T1GOSTR-ND	1.8V, 300mA CMOS LDO Reg.*	SOT-23-5	861.00/3,000		
NCP1000P	NCP1000POS-ND	0.5A Integrated Off-Line Switching Reg.	8-Dip	1.55	1.24	.93
NCP1001P	NCP1001POS-ND	1A Integrated Off-Line Switching Reg.	8-Dip	1.88	1.50	1.13
NCP1002P	NCP1002POS-ND	1.5A Integrated Off-Line Switching Reg.	8-Dip	2.25	1.80	1.35
NCP1030DMR2	NCP1030DMR2OSCT-ND	Low Power PWM Controller with On-Chip Power Switch	8-Micro	2.25	1.80	1.40
NCP1030DMR2	NCP1030DMR2OSTR-ND	Low Power PWM Controller with On-Chip Power Switch	8-Micro	5040.00/4,000		
NCP1050P44	NCP1050P44OS-ND	100mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.35	1.13	.90
NCP1050P100	NCP1050P100OS-ND	100mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.35	1.13	.90
NCP1050P136	NCP1050P136OS-ND	100mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.35	1.13	.90
NCP1051P44	NCP1051P44OS-ND	200mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.35	1.13	.90
NCP1051P100	NCP1051P100OS-ND	200mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.35	1.13	.90
NCP1052P44	NCP1052P44OS-ND	300mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.35	1.13	.90
NCP1052P100	NCP1052P100OS-ND	300mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.35	1.13	.90
NCP1052P136	NCP1052P136OS-ND	300mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.35	1.13	.90
NCP1053P44	NCP1053P44OS-ND	400mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.44	1.20	.96
NCP1053P100	NCP1053P100OS-ND	400mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.44	1.20	.96
NCP1053P136	NCP1053P136OS-ND	400mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.44	1.20	.96
NCP1054P44	NCP1054P44OS-ND	530mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.44	1.20	.96
NCP1054P100	NCP1054P100OS-ND	530mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.44	1.20	.96
NCP1054P136	NCP1054P136OS-ND	530mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.44	1.20	.96
NCP1055P44	NCP1055P44OS-ND	680mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.44	1.20	.96
NCP1055P100	NCP1055P100OS-ND	680mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.44	1.20	.96
NCP1055P136	NCP1055P136OS-ND	680mA Mono High Volt. Gated Oscillator Power Switching Regulator	8-Dip	1.44	1.20	.96
NCP1200AD40R2	NCP1200AD40R2OSCT-ND	40KHz PWM Current Mode Controller	8-SOIC	1.44	1.20	.96
NCP1200AD40R2	NCP1200AD40R2OSTR-ND	40KHz PWM Current Mode Controller	8-SOIC	1560.00/2,500		
NCP1200AD60R2	NCP1200AD60R2OSCT-ND	60KHz PWM Current Mode Controller	8-SOIC	1.44	1.20	.96
NCP1200AD60R2	NCP1200AD60R2OSTR-ND	60KHz PWM Current Mode Controller	8-SOIC	1560.00/2,500		
NCP1200AD100R2	NCP1200AD100ROSCT-ND	100KHz PWM Current Mode Controller	8-SOIC	1.44	1.20	.96
NCP1200AD100R2	NCP1200AD100ROSTR-ND	100KHz PWM Current Mode Controller	8-SOIC	1560.00/2,500		
NCP1200AP40	NCP1200AP40OS-ND	40KHz PWM Current Mode Controller	8-Dip	1.44	1.20	.96
NCP1200AP60	NCP1200AP60OS-ND	60KHz PWM Current Mode Controller	8-Dip	1.44	1.20	.96
NCP1200AP100	NCP1200AP100OS-ND	100KHz PWM Current Mode Controller	8-Dip	1.44	1.20	.96
NCP1200D40R2	NCP1200D40R2OSCT-ND	40KHz PWM Current Mode Controller	8-SOIC	1.36	1.14	.91
NCP1200D40R2	NCP1200D40R2OSTR-ND	40KHz PWM Current Mode Controller	8-SOIC	1472.50/2,500		
NCP1200D60R2G	NCP1200D60R2GOSCT-ND	60KHz PWM Current Mode Controller*	8-SOIC	1.36	1.14	.91
NCP1200D60R2G	NCP1200D60R2GOSTR-ND	60KHz PWM Current Mode Controller*	8-SOIC	1472.50/2,500		
NCP1200D60R2	NCP1200D60R2OSCT-ND	60KHz PWM Current Mode Controller	8-SOIC	1.36	1.14	.91
NCP1200D60R2	NCP1200D60R2OSTR-ND	60KHz PWM Current Mode Controller	8-SOIC	1472.50/2,500		
NCP1200D100R2	NCP1200D100R2OSCT-ND	100KHz PWM Current Mode Controller	8-SOIC	1.36	1.14	.91
NCP1200D100R2	NCP1200D100R2OSTR-ND	100KHz PWM Current Mode Controller	8-SOIC	1472.50/2,500		
NCP1200P40	NCP1200P40OS-ND	40KHz PWM Current Mode Controller	8-Dip	1.44	1.20	.96
NCP1200P60	NCP1200P60OS-ND	60KHz PWM Current Mode Controller	8-Dip	1.44	1.20	.96
NCP1200P100	NCP1200P100OS-ND	100KHz PWM Current Mode Controller	8-Dip	1.44	1.20	.96
NCP1203D40R2	NCP1203D40R2OSCT-ND	40KHz PWM Current Mode Controller	8-SOIC	1.44	1.20	.96
NCP1203D40R2	NCP1203D40R2OSTR-ND	40KHz PWM Current Mode Controller	8-SOIC	1560.00/2,500		
NCP1203D60R2	NCP1203D60R2OSCT-ND	60KHz PWM Current Mode Controller	8-SOIC	1.44	1.20	.96
NCP1203D60R2	NCP1203D60R2OSTR-ND	60KHz PWM Current Mode Controller	8-SOIC	1560.00/2,500		
NCP1203D100R2	NCP1203D100R2OSCT-ND	100KHz PWM Current Mode Controller	8-SOIC	1.44	1.20	.96
NCP1203D100R2	NCP1203D100R2OSTR-ND	100KHz PWM Current Mode Controller	8-SOIC	1560.00/2,500		
NCP1203P40	NCP1203P40OS-ND	40KHz PWM Current Mode Controller	8-Dip	1.44	1.20	.96
NCP1203P60	NCP1203P60OS-ND	60KHz PWM Current Mode Controller	8-Dip	1.44	1.20	.96
NCP1203P100	NCP1203P100OS-ND	100KHz PWM Current Mode Controller	8-Dip	1.44	1.20	.96
NCP1207DR2	NCP1207DR2OSCT-ND	PWM Current Mode Controller for Free Running Quasi-Resonant Operation	8-SOIC	1.40	1.12	.84
NCP1207DR2	NCP1207DR2OSTR-ND	PWM Current Mode Controller for Free Running Quasi-Resonant Operation	8-SOIC	1792.50/2,500		
NCP1207P	NCP1207POS-ND	PWM Current Mode Controller for Free Running Quasi-Resonant Operation	8-Dip	1.40	1.12	.84
NCP1400ASN19T1	NCP1400ASN19TOSCT-ND	1.9V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	.93	.78	.62
NCP1400ASN19T1	NCP1400ASN19TOSTR-ND	1.9V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	1209.00/3,000		
NCP1400ASN25T1	NCP1400ASN25TOSCT-ND	2.5V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	.93	.78	.62
NCP1400ASN25T1	NCP1400ASN25TOSTR-ND	2.5V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	1209.00/3,000		
NCP1400ASN27T1	NCP1400ASN27TOSCT-ND	2.7V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	.93	.78	.62
NCP1400ASN27T1	NCP1400ASN27TOSTR-ND	2.7V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	1209.00/3,000		
NCP1400ASN33T1	NCP1400ASN33TOSCT-ND	3.3V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	.93	.78	.62
NCP1400ASN33T1	NCP1400ASN33TOSTR-ND	3.3V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	1209.00/3,000		
NCP1400ASN50T1	NCP1400ASN50TOSCT-ND	5V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	.93	.78	.62
NCP1400ASN50T1	NCP1400ASN50TOSTR-ND	5V, 100mA Fixed Freq. PWM Step-Up MPU Switching Regulator	TSOT-23-5	1209.00/3,000		
NCP1402SN19T1	NCP1402SN19T1OSCT-ND	1.9V, 200mA PFM Step-Up Micropower Switching Regulator	SOT-23-5	1.05	.88	.70
NCP1402SN19T1	NCP1402SN19T1OSTR-ND	1.9V, 200mA PFM Step-Up Micropower Switching Regulator	SOT-23-5	1365.00/3,000		
NCP1402SN27T1	NCP1402SN27T1OSCT-ND	2.7V, 200mA PFM Step-Up Micropower Switching Regulator	SOT-23-5	1.05	.88	.70
NCP1402SN27T1	NCP1402SN27T1OSTR-ND	2.7V, 200mA PFM Step-Up Micropower Switching Regulator	SOT-23-5	1365.00/3,000		
NCP1402SN30T1	NCP1402SN30T1OSCT-ND	3V, 200mA PFM Step-Up Micropower Switching Regulator	SOT-23-5	1.05	.88	.70
NCP1402SN33T1	NCP1402SN33T1OSCT-ND	3.3V, 200mA PFM Step-Up Micropower Switching Regulator	SOT-23-5	1.05	.88	.70
NCP1402SN33T1	NCP1402SN33T1OSTR-ND	3.3V, 200mA PFM Step-Up Micropower Switching Regulator	SOT-23-5	1365.00/3,000		
NCP1403SNT1	NCP1403SNT1OSCT-ND	15V, 50mA PFM Step-Up DC/DC Converter	5-TSOP	1.08	.97	.86
NCP1403SNT1	NCP1403SNT1OSTR-ND	15V, 50mA PFM Step-Up DC/DC Converter	5-TSOP	1677.00/3,000		
NCP1410DMR2	NCP1410DMR2OSCT-ND	250mA Sync-Rect PFM Step-Up DC/DC Converter	8-Micro	1.58	1.26	.95
NCP1410DMR2	NCP1410DMR2OSTR-ND	250mA Sync-Rect PFM Step-Up DC/DC Converter	8-Micro	3224.00/4,000		
NCP1417DMR2	NCP1417DMR2OSCT-ND	200mA DC/DC Step-Up Converter	8-Micro	1.58	1.26	.95
NCP1417DMR2	NCP1417DMR2OSTR-ND	200mA DC/DC Step-Up Converter	8-Micro	3224.00/4,000		
NCP1421DMR2	NCP1421DMR2OSCT-ND	600mA Sync-Rect PFM Step-Up DC/DC Converter	8-Micro	2.52	2.02	1.57
NCP1421DMR2	NCP1421DMR2OSTR-ND	600mA Sync-Rect PFM Step-Up DC/DC Converter	8-Micro	5644.00/4,000		
NCP1442FR4	NCP1442FR4OSCT-ND	4A, 280KHz Boost Regulator	7-PowerFLEX	5.60	4.48	3.78
NCP1442FR4	NCP1442FR4OSTR-ND	4A, 280KHz Boost Regulator	7-PowerFLEX	7000.00/2,000		
NCP1443FR4	NCP1443FR4OSCT-ND	4A, 280KHz Boost Regulator	7-PowerFLEX	5.60	4.48	3.78
NCP1443FR4	NCP1443FR4OSTR-ND	4A, 280KHz Boost Regulator	7-PowerFLEX	7000.00/2,000		
NCP1443T	NCP1443TOS-ND	4A, 280KHz Boost Regulator	TO-220-7	5.46	4.37	3.69
NCP1444FR4	NCP1444FR4OSCT-ND	4A, 560KHz Boost Regulator	7-PowerFLEX	5.60	4.48	3.78
NCP1444FR4	NCP1444FR4OSTR-ND	4A, 560KHz Boost Regulator	7-PowerFLEX	7000.00/2,000		
NCP1444T	NCP1444TOS-ND	4A, 560KHz Boost Regulator	TO-220-7	5.46	4.37	3.69
NCP1445FR4	NCP1445FR4OSCT-ND	4A, 560KHz Boost Regulator	7-PowerFLEX	5.60	4.48	3.78
NCP1445FR4	NCP1445FR4OSTR-ND	4A, 560KHz Boost Regulator	7-PowerFLEX	7000.00/2,000		
NCP1445T	NCP1445TOS-ND	4A, 560KHz Boost Regulator	TO-220-7	5.46	4.37	3.69
NCP1450ASN19T1	NCP1450ASN19TOSCT-ND	1.9V, 180KHz PWM Step-Up DC/DC Controller	5-TSOP	.96	.80	.64

* ***RoHS Compliant***

(Continued)

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
NCP1450ASN19T1	NCP1450ASN19TOSTR-ND	1.9V, 180KHz PWM Step-Up DC/DC Controller	5-TSOP	1248.00/3,000		
NCP1450ASN27T1	NCP1450ASN27TOSCT-ND	2.7V, 180KHz PWM Step-Up DC/DC Controller	5-TSOP	.96	.80	.64
NCP1450ASN27T1	NCP1450ASN27TOSTR-ND	2.7V, 180KHz PWM Step-Up DC/DC Controller	5-TSOP	1248.00/3,000		
NCP1450ASN30T1	NCP1450ASN30TOSCT-ND	3V, 180KHz PWM Step-Up DC/DC Controller	5-TSOP	.96	.80	.64
NCP1450ASN30T1	NCP1450ASN30TOSTR-ND	3V, 180KHz PWM Step-Up DC/DC Controller	5-TSOP	1248.00/3,000		
NCP1450ASN33T1	NCP1450ASN33TOSCT-ND	3.3V, 180KHz PWM Step-Up DC/DC Controller	5-TSOP	.96	.80	.64
NCP1450ASN33T1	NCP1450ASN33TOSTR-ND	3.3V, 180KHz PWM Step-Up DC/DC Controller	5-TSOP	1248.00/3,000		
NCP1500DMR2	NCP1500DMR2OSCT-ND	Dual Mode PWM/Linear Buck Converter	8-Micro	1.55	1.24	.93
NCP1500DMR2	NCP1500DMR2OSTR-ND	Dual Mode PWM/Linear Buck Converter	8-Micro	3176.00/4,000		
NCP1550SN18T1	NCP1550SN18T1OSCT-ND	1.8V, 600KHz PWM/PFM Step-Down DC/DC Controller	TSOT-23-5	1.03	.82	.62
NCP1550SN18T1	NCP1550SN18T1OSTR-ND	1.8V, 600KHz PWM/PFM Step-Down DC/DC Controller	TSOT-23-5	1599.00/3,000		
NCP1550SN19T1	NCP1550SN19T1OSCT-ND	1.9V, 600KHz PWM/PFM Step-Down DC/DC Controller	TSOT-23-5	1.03	.82	.62
NCP1550SN19T1	NCP1550SN19T1OSTR-ND	1.9V, 600KHz PWM/PFM Step-Down DC/DC Controller	TSOT-23-5	1599.00/3,000		
NCP1550SN25T1	NCP1550SN25T1OSCT-ND	2.5V, 600KHz PWM/PFM Step-Down DC/DC Controller	TSOT-23-5	1.03	.82	.62
NCP1550SN25T1	NCP1550SN25T1OSTR-ND	2.5V, 600KHz PWM/PFM Step-Down DC/DC Controller	TSOT-23-5	1599.00/3,000		
NCP1550SN27T1	NCP1550SN27T1OSCT-ND	2.7V, 600KHz PWM/PFM Step-Down DC/DC Controller	TSOT-23-5	1.03	.82	.62
NCP1550SN27T1	NCP1550SN27T1OSTR-ND	2.7V, 600KHz PWM/PFM Step-Down DC/DC Controller	TSOT-23-5	1599.00/3,000		
NCP1550SN33T1	NCP1550SN33T1OSCT-ND	3.3V, 600KHz PWM/PFM Step-Down DC/DC Controller	TSOT-23-5	1.03	.82	.62
NCP1550SN33T1	NCP1550SN33T1OSTR-ND	3.3V, 600KHz PWM/PFM Step-Down DC/DC Controller	TSOT-23-5	1599.00/3,000		
NCP1560HDR2	NCP1560HDR2OSCT-ND	Full Featured Voltage Mode PWM Controller	16-SOIC	3.38	2.70	2.10
NCP1560HDR2	NCP1560HDR2OSTR-ND	Full Featured Voltage Mode PWM Controller	16-SOIC	4725.00/2,500		
NCP1571DR2	NCP1571DR2OSCT-ND	Low Voltage Sync. Buck Controller	8-SOIC	2.48	1.98	1.54
NCP1571DR2	NCP1571DR2OSTR-ND	Low Voltage Sync. Buck Controller	8-SOIC	3465.00/2,500		
NCP1573DR2	NCP1573DR2OSCT-ND	Low Voltage Sync. Buck Controller	8-SOIC	2.48	1.98	1.54
NCP1573DR2	NCP1573DR2OSTR-ND	Low Voltage Sync. Buck Controller	8-SOIC	3465.00/2,500		
NCP1575DR2	NCP1575DR2OSCT-ND	Low Voltage Sync. Buck Controller with Adj. Switching Freq.	8-SOIC	2.48	1.98	1.54
NCP1575DR2	NCP1575DR2OSTR-ND	Low Voltage Sync. Buck Controller with Adj. Switching Freq.	8-SOIC	3465.00/2,500		
NCP1601ADR2	NCP1601ADR2OSCT-ND	Compact Fixed Freq. Discontinuous or Critical Conduction Voltage Mode Power Factor Correction Controller	8-SOIC	1.48	1.18	.89
NCP1601ADR2	NCP1601ADR2OSTR-ND	Compact Fixed Freq. Discontinuous or Critical Conduction Voltage Mode Power Factor Correction Controller	8-SOIC	1887.50/2,500		
NCP1601AP	NCP1601APOS-ND	Compact Fixed Freq. Discontinuous or Critical Conduction Voltage Mode Power Factor Correction Controller	8-Dip	1.80	1.44	1.08
NCP1601BDR2	NCP1601BDR2OSCT-ND	Compact Fixed Freq. Discontinuous or Critical Conduction Voltage Mode Power Factor Correction Controller	8-SOIC	1.48	1.18	.89
NCP1601BDR2	NCP1601BDR2OSTR-ND	Compact Fixed Freq. Discontinuous or Critical Conduction Voltage Mode Power Factor Correction Controller	8-SOIC	1887.50/2,500		
NCP1601BP	NCP1601BPOS-ND	Compact Fixed Freq. Discontinuous or Critical Conduction Voltage Mode Power Factor Correction Controller	8-Dip	1.80	1.44	1.08
NCP1603D100R2	NCP1603D100R2OSCT-ND	PFC/PWM Combo Controller	16-SOIC	3.49	2.79	2.17
NCP1603D100R2	NCP1603D100R2OSTR-ND	PFC/PWM Combo Controller	16-SOIC	4882.50/2,500		
NCP1650DR2	NCP1650DR2OSCT-ND	Power Factor Controller	16-SOIC	3.15	2.52	1.96
NCP1653DR2	NCP1653DR2OSCT-ND	Compact Fixed Freq. Current Mode PFC Controller	8-SOIC	2.41	1.93	1.50
NCP1653P	NCP1653POS-ND	Compact Fixed Freq. Current Mode PFC Controller	8-Dip	2.70	2.16	1.68
NCP1729SN35T1	NCP1729SN35T1OSCT-ND	Switched Capacitance Voltage Inverter	6-TSOP	.83	.66	.50
NCP1729SN35T1	NCP1729SN35T1OSTR-ND	Switched Capacitance Voltage Inverter	6-TSOP	1287.00/3,000		
NCP1800DM41R2	NCP1800DM41R2OSCT-ND	Single-Cell Lithium Ion Battery Charge Controller	8-Micro	1.91	1.53	1.19
NCP1800DM42R2	NCP1800DM42R2OSCT-ND	Single-Cell Lithium Ion Battery Charge Controller	8-Micro	1.91	1.53	1.19
NCP1800DM42R2	NCP1800DM42R2OSTR-ND	Single-Cell Lithium Ion Battery Charge Controller	8-Micro	4352.00/4,000		
NCP2890DMR2	NCP2890DMR2OSCT-ND	1W Audio Power Amp	8-Micro	1.20	.96	.72
NCP2890DMR2	NCP2890DMR2OSTR-ND	1W Audio Power Amp	8-Micro	2496.00/4,000		
NCP3712ASNT1	NCP3712ASNT1OSCT-ND	Over Voltage Protected High Side Switch	SOT-23-6	.60	.45	.34
NCP3712ASNT1	NCP3712ASNT1OSTR-ND	Over Voltage Protected High Side Switch	SOT-23-6	585.00/3,000		
NCP5008DMR2	NCP5008DMR2OSCT-ND	Backlight LED Boost Driver	10-Micro	1.63	1.30	.98
NCP5008DMR2	NCP5008DMR2OSTR-ND	Backlight LED Boost Driver	10-Micro	3328.00/4,000		
NCP5009DMR2	NCP5009DMR2OSCT-ND	Backlight LED Boost Driver	10-Micro	1.50	1.20	.90
NCP5009DMR2	NCP5009DMR2OSTR-ND	Backlight LED Boost Driver	10-Micro	3072.00/4,000		
NCP5314FTR2	NCP5314FTR2OSCT-ND	Two/Three/Four-Phase Buck CPU Controller	32-LQFP	5.00	4.00	3.38
NCP5314FTR2	NCP5314FTR2OSTR-ND	Two/Three/Four-Phase Buck CPU Controller	32-LQFP	6250.00/2,000		
NCP5322ADWR2	NCP5322ADWR2OSCT-ND	Two-Phase Buck Controller	28-SOIC	8.32	6.66	5.62
NCP5322ADWR2	NCP5322ADWR2OSTR-ND	Two-Phase Buck Controller	28-SOIC	5200.00/1,000		
NCP5331FTR2	NCP5331FTR2OSCT-ND	Two-Phase PWM Controller	32-LQFP	5.96	4.77	4.03
NCP5331FTR2	NCP5331FTR2OSTR-ND	Two-Phase PWM Controller	32-LQFP	7450.00/2,000		
NCP5332ADWR2	NCP5332ADWR2OSCT-ND	Two-Phase Buck Controller	28-SOIC	8.32	6.66	5.62
NCP5332ADWR2	NCP5332ADWR2OSTR-ND	Two-Phase Buck Controller	28-SOIC	5200.00/1,000		
NCP5351DR2	NCP5351DR2OSCT-ND	4A Sync. Buck Power MOSFET Driver	8-SOIC	1.70	1.36	1.02
NCP5351DR2	NCP5351DR2OSTR-ND	4A Sync. Buck Power MOSFET Driver	8-SOIC	2175.00/2,500		
NCP5355DR2	NCP5355DR2OSCT-ND	12V Sync. Buck Power MOSFET Driver	8-SOIC	2.13	1.70	1.28
NCP5355DR2	NCP5355DR2OSTR-ND	12V Sync. Buck Power MOSFET Driver	8-SOIC	2720.00/2,500		
NCP5424DR2	NCP5424DR2OSCT-ND	Dual Sync. Buck Controller	16-SOIC	5.18	4.14	3.22
NCP5424DR2	NCP5424DR2OSTR-ND	Dual Sync. Buck Controller	16-SOIC	7245.00/2,500		
NCP5426SN13T2	NCP5426SN13T2OSCT-ND	LDO Regulator/Vibration Motor Driver	5-TSOP	1.13	.98	.75
NCP5426SN13T2	NCP5426SN13T2OSTR-ND	LDO Regulator/Vibration Motor Driver	5-TSOP	1197.00/3,000		
NCS2001SN1T1	NCS2001SN1T1OSCT-ND	0.9V Rail-to-Rail Single Op Amp	SOT-23-5	1.40	1.12	.84
NCS2001SN1T1	NCS2001SN1T1OSTR-ND	0.9V Rail-to-Rail Single Op Amp	SOT-23-5	2151.00/3,000		
NCS2001SN2T1	NCS2001SN2T1OSCT-ND	0.9V Rail-to-Rail Single Op Amp	SOT-23-5	1.40	1.12	.84
NCS2001SN2T1	NCS2001SN2T1OSTR-ND	0.9V Rail-to-Rail Single Op Amp	SOT-23-5	2151.00/3,000		
NCS2001SQ1T1	NCS2001SQ1T1OSCT-ND	0.9V Rail-to-Rail Single Op Amp	SOT-23-5	.80	.64	.48
NCS2001SQ1T1	NCS2001SQ1T1OSTR-ND	0.9V Rail-to-Rail Single Op Amp	SOT-23-5	1230.00/3,000		
NCS2001SQ2T1	NCS2001SQ2T1OSCT-ND	0.9V Rail-to-Rail Single Op Amp	SC70-5	.80	.64	.48
NCS2002SN1T1	NCS2002SN1T1OSCT-ND	Sub-One Volt Rail-to-Rail Op Amp	6-TSOP	.96	.80	.64
NCS2002SN1T1	NCS2002SN1T1OSTR-ND	Sub-One Volt Rail-to-Rail Op Amp	6-TSOP	1248.00/3,000		
NCS2002SN2T1	NCS2002SN2T1OSCT-ND	Sub-One Volt Rail-to-Rail Op Amp	6-TSOP	.96	.80	.64
NCS2002SN2T1	NCS2002SN2T1OSTR-ND	Sub-One Volt Rail-to-Rail Op Amp	6-TSOP	1248.00/3,000		
NCS2200SN1T1	NCS2200SN1T1OSCT-ND	Low Voltage Comparator	SOT-23-5	1.58	1.26	.95
NCS2200SN1T1	NCS2200SN1T1OSTR-ND	Low Voltage Comparator	SOT-23-5	2418.00/3,000		
NCS2200SN2T1	NCS2200SN2T1OSCT-ND	Low Voltage Comparator	SOT-23-5	1.58	1.26	.95
NCS2200SN2T1	NCS2200SN2T1OSTR-ND	Low Voltage Comparator	SOT-23-5	2418.00/3,000		
NCS2201SN1T1	NCS2201SN1T1OSCT-ND	Low Volt. Comparator with Enable	SOT-23-6	.90	.72	.54
NCS2201SN1T1	NCS2201SN1T1OSTR-ND	Low Volt. Comparator with Enable	SOT-23-6	1383.00/3,000		
NCS2201SN2T1	NCS2201SN2T1OSCT-ND	Low Volt. Comparator with Enable	SOT-23-6	.90	.72	.54
NCS2201SN2T1	NCS2201SN2T1OSTR-ND	Low Volt. Comparator with Enable	SOT-23-6	1383.00/3,000		
NCS2202SN1T1	NCS2202SN1T1OSCT-ND	Low Volt. Comparator with OD	SOT-23-5	.90	.72	.54
NCS2202SN1T1	NCS2202SN1T1OSTR-ND	Low Volt. Comparator with OD	SOT-23-5	1383.00/3,000		
NCS2202SN2T1	NCS2202SN2T1OSCT-ND	Low Volt. Comparator with OD	SOT-23-5	.90	.72	.54
NCS2202SN2T1	NCS2202SN2T1OSTR-ND	Low Volt. Comparator with OD	SOT-23-5	1383.00/3,000		
NCS2203SN1T1	NCS2203SN1T1OSCT-ND	Low Volt. Comparator w/OD/Enable	SOT-23-6	.90	.72	.54
NCS2203SN1T1	NCS2203SN1T1OSTR-ND	Low Volt. Comparator w/OD/Enable	SOT-23-6	1383.00/3,000		
NCS2203SN2T1	NCS2203SN2T1OSCT-ND	Low Volt. Comparator w/OD/Enable	SOT-23-6	.90	.72	.54
NCS2203SN2T1	NCS2203SN2T1OSTR-ND	Low Volt. Comparator w/OD/Enable	SOT-23-6	1383.00/3,000		
NCS5000SNT1	NCS5000SNT1OSCT-ND	Integrated RF Schottky Detector	6-TSOP	1.14	.95	.76
NCS5000SNT1	NCS5000SNT1OSTR-ND	Integrated RF Schottky Detector	6-TSOP	1482.00/3,000		
NCV7601P	NCV7601POS-ND	Quad Driver	16-Dip	3.51	2.81	2.19
NCV8509PDW18R2	NCV8509PDW18ROSCT-ND	Sequenced Linear Dual Voltage Reg.	16-SOIC	3.24	2.60	2.02
NCV8509PDW18R2	NCV8509PDW18ROSTR-ND	Sequenced Linear Dual Voltage Reg.	16-SOIC	1836.00/1,000		
NCV8509PDW25R2	NCV8509PDW25ROSCT-ND	Sequenced Linear Dual Voltage Reg.	16-SOIC	3.24	2.60	2.02
NCV8509PDW25R2	NCV8509PDW25ROSTR-ND	Sequenced Linear Dual Voltage Reg.	16-SOIC	1836.00/1,000		
NCV8509PDW26R2	NCV8509PDW26ROSCT-ND	Sequenced Linear Dual Voltage Reg.	16-SOIC	3.24	2.60	2.02
NCV8509PDW26R2	NCV8509PDW26ROSTR-ND	Sequenced Linear Dual Voltage Reg.	16-SOIC	1836.00/1,000		
NCV33033DWR2	NCV33033DWR2OSCT-ND	Brushless DC Motor Controller	20-SOIC	5.38	4.31	3.64
NCV33033DWR2	NCV33033DWR2OSTR-ND	Brushless DC Motor Controller	20-SOIC	3363.00/1,000		
NCV33035DWR2	NCV33035DWR2OSCT-ND	Brushless DC Motor Controller	24-SOIC	4.36	3.49	2.95
NCV33163DWR2	NCV33163DWR2OSCT-ND	2.5A Step-Up/Down/Inverting Switching Regulator	16-SOIC	3.02	2.42	1.88
NCV33163DWR2	NCV33163DWR2OSTR-ND	2.5A Step-Up/Down/Inverting Switching Regulator	16-SOIC	1709.00/1,000		
NCV33163P	NCV33163POS-ND	2.5A Step-Up/Down/Inverting Switching Regulator	16-Dip	3.02	2.42	1.88
NGD15N41CLT4	NGD15N41CLT4OSCT-ND	410V, 15A, Ignition IGBT	D-PAK	1.84	1.48	1.11
NGD15N41CLT4	NGD15N41CLT4OSTR-ND	410V, 15A, Ignition IGBT	D-PAK	2355.00/2,500		
NIS5101E1T1	NIS5101E1T1OSCT-ND	-48V, Hot Swap Controller	S-PAK	9.58	8.63	7.65
NIS5101E1T1	NIS5101E1T1OSTR-ND	-48V, Hot Swap Controller	S-PAK	14202.00/2,000		
NIS5101E2T1	NIS5101E2T1OSCT-ND	-48V, Hot Swap Controller	S-PAK	9.55	8.63	7.65
NIS5101E2T1	NIS5101E2T1OSTR-ND	-48V, Hot Swap Controller	S-PAK	14202.00/2,000		
NL7WB66US	NL7WB66USOSCT-ND	Ultra-Small SPST Analog Switch	US8-8	.59	.48	.36
NL7WB66US	NL7WB66USOSTR-ND	Ultra-Small SPST Analog Switch	US8-8	534.00/3,000		
NL7WB66USG	NL7WB66USGOSCT-ND	Ultra-Small SPST Analog Switch* ***NEW!***	US8-8	.59	.48	.36
NL7WB66USG	NL7WB66USGOSTR-ND	Ultra-Small SPST Analog Switch* ***NEW!***	US8-8	534.00/3,000		
NL17SZ00DFT2	NL17SZ00DFT2OSCT-ND	Single 2-Input NAND Gate	SOT-353	.29	.24	.16
NL17SZ00DFT2	NL17SZ00DFT2OSTR-ND	Single 2-Input NAND Gate	SOT-353	240.00/3,000		
NL17SZ00DFT2G	NL17SZ00DFT2GOSCT-ND	Single 2-Input NAND Gate* ***NEW!***	SOT-353	.38	.29	.20
NL17SZ00DFT2G	NL17SZ00DFT2GOSTR-ND	Single 2-Input NAND Gate* ***NEW!***	SOT-353	243.00/3,000		
NL17SZ00XV5T2	NL17SZ00XV5T2OSCT-ND	Single 2-Input NAND Gate	SOT-553	.22	.18	.14
NL17SZ02DFT2	NL17SZ02DFT2OSCT-ND	2-Input NOR Gate	SOT-353	.38	.29	.20
NL17SZ02DFT2	NL17SZ02DFT2OSTR-ND	2-Input NOR Gate	SOT-353	243.00/3,000		
NL17SZ02XV5T2	NL17SZ02XV5T2OSCT-ND	2-Input NOR Gate	SOT-553	.22	.18	.14
NL17SZ02XV5T2	NL17SZ02XV5T2OSTR-ND	2-Input NOR Gate	SOT-553	320.00/4,000		
NL17SZ04DFT2	NL17SZ04DFT2OSCT-ND	Single Inverter	SOT-353	.38	.29	.20
NL17SZ04DFT2	NL17SZ04DFT2OSTR-ND	Single Inverter	SOT-353	243.00/3,000		
NL17SZ04DFT2G	NL17SZ04DFT2GOSCT-ND	Single Inverter* ***NEW!***	SOT-353	.38	.29	.20
NL17SZ04DFT2G	NL17SZ04DFT2GOSTR-ND	Single Inverter* ***NEW!***	SOT-353	243.00/3,000		
NL17SZ06DFT2	NL17SZ06DFT2OSCT-ND	Single Inverter with OD Output	SOT-353	.29	.24	.16
NL17SZ06DFT2	NL17SZ06DFT2OSTR-ND	Single Inverter with OD Output	SOT-353	240.00/3,000		
NL17SZ07DFT2	NL17SZ07DFT2OSCT-ND	Single Non-Inverting Buffer with OD Output	SOT-353	.29	.24	.16
NL17SZ08DFT2	NL17SZ08DFT2OSCT-ND	Single 2-Input AND Gate	SOT-353	.38	.29	.20
NL17SZ08DFT2	NL17SZ08DFT2OSTR-ND	Single 2-Input AND Gate	SOT-353	243.00/3,000		
NL17SZ08DFT2G	NL17SZ08DFT2GOSCT-ND	Single 2-Input AND Gate* ***NEW!***	SOT-353	.38	.29	.20
NL17SZ08DFT2G	NL17SZ08DFT2GOSTR-ND	Single 2-Input AND Gate* ***NEW!***	SOT-353	243.00/3,000		
NL17SZ08XV5T2	NL17SZ08XV5T2OSCT-ND	Single 2-Input AND Gate	SOT-553	.22	.18	.14
NL17SZ14DFT2	NL17SZ14DFT2OSCT-ND	Single Inverter with Schmitt Trigger	SOT-353	.38	.29	.20
NL17SZ14DFT2	NL17SZ14DFT2OSTR-ND	Single Inverter with Schmitt Trigger	SOT-353	243.00/3,000		
NL17SZ14DFT2G	NL17SZ14DFT2GOSCT-ND	Single Inverter with Schmitt Trigger* ***NEW!***	SOT-353	.38	.29	.20
NL17SZ14DFT2G	NL17SZ14DFT2GOSTR-ND	Single Inverter with Schmitt Trigger* ***NEW!***	SOT-353	243.00/3,000		
NL17SZ16DFT2	NL17SZ16DFT2OSCT-ND	Single Input Buffer	SOT-353	.22	.18	.14
NL17SZ16DFT2	NL17SZ16DFT2OSTR-ND	Single Input Buffer	SOT-353	240.00/3,000		
NL17SZ16DFT2G	NL17SZ16DFT2GOSCT-ND	Single Input Buffer* ***NEW!***	SOT-353	.38	.29	.20
NL17SZ16DFT2G	NL17SZ16DFT2GOSTR-ND	Single Input Buffer* ***NEW!***	SOT-353	243.00/3,000		
NL17SZ16XV5T2	NL17SZ16XV5T2OSCT-ND	Single Input Buffer	SOT-553	.22	.18	.14

* ***RoHS Compliant***

(Continued)

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
NL17SZ16XV5T2	NL17SZ16XV5T2OSTR-ND	Single Input Buffer	SOT-553	320.00/4,000		
NL17SZ17XV5T2	NL17SZ17XV5T2OSCT-ND	Single Non-Inverting Buffer with Schmitt Trigger	SOT-553	.22	.18	.14
NL17SZ32DFT2G	NL17SZ32DFT2GOSCT-ND	Single 2-Input OR Gate* ***NEW!***	SOT-353	.38	.29	.20
NL17SZ32DFT2G	NL17SZ32DFT2GOSTR-ND	Single 2-Input OR Gate* ***NEW!***	SOT-353	243.00/3,000		
NL17SZ74US	NL17SZ74USOSCT-ND	Single D-Type Flip-Flop	US8-8	.46	.36	.26
NL17SZ74US	NL17SZ74USOSTR-ND	Single D-Type Flip-Flop	US8-8	363.00/3,000		
NL17SZ86DFT2	NL17SZ86DFT2OSCT-ND	Single 2-Input Exclusive OR Gate	SOT-353	.22	.18	.14
NL17SZ86DFT2	NL17SZ86DFT2OSTR-ND	Single 2-Input Exclusive OR Gate	SOT-353	240.00/3,000		
NL17SZ126DFT2	NL17SZ126DFT2OSCT-ND	Tri-State Non-Inverting Buffer	SOT-353	.26	.22	.16
NL17SZ126DFT2	NL17SZ126DFT2OSTR-ND	Tri-State Non-Inverting Buffer	SOT-353	285.00/3,000		
NL17SZU04DFT2	NL17SZU04DFT2OSCT-ND	Single Unbuffered Inverter	SOT-353	.29	.24	.16
NL17SZU04DFT2	NL17SZU04DFT2OSTR-ND	Single Unbuffered Inverter	SOT-353	240.00/3,000		
NL17SZU04XV5T2	NL17SZU04XV5TOSCT-ND	Single Unbuffered Inverter	SOT-553	.22	.18	.14
NL17SZU04XV5T2	NL17SZU04XV5TOSTR-ND	Single Unbuffered Inverter	SOT-553	320.00/4,000		
NL27WZ00US	NL27WZ00USOSCT-ND	Dual 2-Input NAND Gate	US8-8	1.00	.87	.67
NL27WZ00US	NL27WZ00USOSTR-ND	Dual 2-Input NAND Gate	US8-8	1065.00/3,000		
NL27WZ00USG	NL27WZ00USGOSCT-ND	Dual 2-Input NAND Gate* ***NEW!***	US8-8	.54	.42	.30
NL27WZ00USG	NL27WZ00USGOSTR-ND	Dual 2-Input NAND Gate* ***NEW!***	US8-8	423.00/3,000		
NL27WZ04DFT2	NL27WZ04DFT2OSCT-ND	Dual Inverter	SOT-363	.42	.32	.24
NL27WZ04DFT2G	NL27WZ04DFT2GOSCT-ND	Dual Inverter* ***NEW!***	SOT-363	.53	.43	.33
NL27WZ04DFT2G	NL27WZ04DFT2GOSTR-ND	Dual Inverter* ***NEW!***	SOT-363	480.00/3,000		
NL27WZ07DFT2	NL27WZ07DFT2OSCT-ND	Dual Buffer with OD Output	SOT-363	.42	.32	.24
NL27WZ08US	NL27WZ08USOSCT-ND	Dual 2-Input AND Gate	US8-8	.54	.42	.30
NL27WZ08USG	NL27WZ08USGOSCT-ND	Dual 2-Input AND Gate* ***NEW!***	US8-8	.54	.42	.30
NL27WZ08USG	NL27WZ08USGOSTR-ND	Dual 2-Input AND Gate* ***NEW!***	US8-8	423.00/3,000		
NL27WZ14DFT2	NL27WZ14DFT2OSCT-ND	Dual Schmitt-Trigger Inverter	SOT-363	.42	.32	.24
NL27WZ14DFT2G	NL27WZ14DFT2GOSCT-ND	Dual Schmitt-Trigger Inverter* ***NEW!***	SOT-363	.53	.43	.33
NL27WZ14DFT2G	NL27WZ14DFT2GOSTR-ND	Dual Schmitt-Trigger Inverter* ***NEW!***	SOT-363	480.00/3,000		
NL27WZ17DFT2	NL27WZ17DFT2OSCT-ND	Dual Non-Inverting Schmitt-Trigger Buffer	SOT-363	.42	.32	.24
NL27WZ17DFT2	NL27WZ17DFT2OSTR-ND	Dual Non-Inverting Schmitt-Trigger Buffer	SOT-363	426.00/3,000		
NL27WZ32US	NL27WZ32USOSCT-ND	Dual 2-Input OR Gate	US8-8	.54	.42	.30
NL27WZ32US	NL27WZ32USOSTR-ND	Dual 2-Input OR Gate	US8-8	423.00/3,000		
NL27WZ32USG	NL27WZ32USGOSCT-ND	Dual 2-Input OR Gate* ***NEW!***	US8-8	.54	.42	.30
NL27WZ32USG	NL27WZ32USGOSTR-ND	Dual 2-Input OR Gate* ***NEW!***	US8-8	423.00/3,000		
NL37WZ04US	NL37WZ04USOSCT-ND	Triple Inverter	US8-8	.56	.46	.34
NL37WZ04US	NL37WZ04USOSTR-ND	Triple Inverter	US8-8	507.00/3,000		
NL37WZ06US	NL37WZ06USOSCT-ND	Triple Inverter with OD Output	US8-8	.72	.54	.41
NL37WZ06US	NL37WZ06USOSTR-ND	Triple Inverter with OD Output	US8-8	702.00/3,000		
NL37WZ07US	NL37WZ07USOSCT-ND	Triple Buffer with OD Output	US8-8	.72	.54	.41
NL37WZ07US	NL37WZ07USOSTR-ND	Triple Buffer with OD Output	US8-8	702.00/3,000		
NL37WZ14US	NL37WZ14USOSCT-ND	Triple Schmitt-Trigger Inverter	US8-8	.56	.46	.34
NL37WZ14US	NL37WZ14USOSTR-ND	Triple Schmitt-Trigger Inverter	US8-8	507.00/3,000		
NL37WZ16US	NL37WZ16USOSCT-ND	Triple Buffer	US8-8	.56	.46	.34
NL37WZ16US	NL37WZ16USOSTR-ND	Triple Buffer	US8-8	507.00/3,000		
NL37WZ17US	NL37WZ17USOSCT-ND	Triple Non-Inverting Schmitt-Trigger Buffer	US8-8	.56	.46	.34
NL37WZ17US	NL37WZ17USOSTR-ND	Triple Non-Inverting Schmitt-Trigger Buffer	US8-8	507.00/3,000		
NLAS323US	NLAS323USOSCT-ND	Dual SPST Analog Switch	US8-8	.90	.75	.60
NLAS323US	NLAS323USOSTR-ND	Dual SPST Analog Switch	US8-8	1170.00/3,000		
NLAS323USG	NLAS323USGOSCT-ND	Dual SPST Analog Switch* ***NEW!***	US8-8	1.13	.98	.75
NLAS323USG	NLAS323USGOSTR-ND	Dual SPST Analog Switch* ***NEW!***	US8-8	1197.00/3,000		
NLAS324US	NLAS324USOSCT-ND	Dual SPST Analog Switch	US8-8	.90	.75	.60
NLAS324US	NLAS324USOSTR-ND	Dual SPST Analog Switch	US8-8	1170.00/3,000		
NLAS324USG	NLAS324USGOSCT-ND	Dual SPST Analog Switch* ***NEW!***	US8-8	1.13	.98	.75
NLAS324USG	NLAS324USGOSTR-ND	Dual SPST Analog Switch* ***NEW!***	US8-8	1197.00/3,000		
NLAS325US	NLAS325USOSCT-ND	Dual SPST Analog Switch	US8-8	.90	.75	.60
NLAS325US	NLAS325USOSTR-ND	Dual SPST Analog Switch	US8-8	1170.00/3,000		
NLAS1053US	NLAS1053USOSCT-ND	2:1 Mux/Demux Analog Switch	US8-8	.90	.75	.60
NLAS1053US	NLAS1053USOSTR-ND	2:1 Mux/Demux Analog Switch	US8-8	1170.00/3,000		
NLAS1053USG	NLAS1053USGOSCT-ND	2:1 Mux/Demux Analog Switch* ***NEW!***	US8-8	1.13	.98	.75
NLAS1053USG	NLAS1053USGOSTR-ND	2:1 Mux/Demux Analog Switch* ***NEW!***	US8-8	1197.00/3,000		
NLAS2066US	NLAS2066USOSCT-ND	Dual SPST Analog Switch	US8-8	.99	.80	.60
NLAS2066US	NLAS2066USOSTR-ND	Dual SPST Analog Switch	US8-8	942.00/3,000		
NLAS2066USG	NLAS2066USGOSCT-ND	Dual SPST Analog Switch* ***NEW!***	US8-8	.99	.80	.60
NLAS2066USG	NLAS2066USGOSTR-ND	Dual SPST Analog Switch* ***NEW!***	US8-8	942.00/3,000		
NLAS4051DR2	NLAS4051DR2OSCT-ND	Analog Mux/Demux	16-SOIC	.81	.68	.54
NLAS4051DR2	NLAS4051DR2OSTR-ND	Analog Mux/Demux	16-SOIC	872.50/2,500		
NLAS4051DTR2	NLAS4051DTR2OSCT-ND	Analog Mux/Demux	16-TSSOP	1.02	.89	.69
NLAS4051DTR2	NLAS4051DTR2OSTR-ND	Analog Mux/Demux	16-TSSOP	907.50/2,500		
NLAS4051DTR2G	NLAS4051DTR2GOSCT-ND	Analog Mux/Demux*	16-TSSOP	1.02	.89	.69
NLAS4051DTR2G	NLAS4051DTR2GOSTR-ND	Analog Mux/Demux*	16-TSSOP	907.50/2,500		
NLAS4052DR2	NLAS4052DR2OSCT-ND	Analog Mux/Demux	16-SOIC	.81	.68	.54
NLAS4052DTR2	NLAS4052DTR2OSCT-ND	Analog Mux/Demux	16-TSSOP	.81	.68	.54
NLAS4053DR2	NLAS4053DR2OSCT-ND	Triple 2:1 Analog Mux/Demux	16-SOIC	.81	.68	.54
NLAS4053DTR2	NLAS4053DTR2OSCT-ND	Triple 2:1 Analog Mux/Demux	16-TSSOP	.81	.68	.54
NLAS4053DTR2	NLAS4053DTR2OSTR-ND	Triple 2:1 Analog Mux/Demux	16-TSSOP	872.50/2,500		
NLAS4501DTT1	NLAS4501DTT1OSCT-ND	Single SPDT Analog Switch	SOT-23-5	.50	.40	.30
NLAS4501DTT1G	NLAS4501DTT1GOSCT-ND	Single SPDT Analog Switch* ***NEW!***	SOT-23-5	.50	.41	.31
NLAS4501DTT1G	NLAS4501DTT1GOSTR-ND	Single SPDT Analog Switch* ***NEW!***	SOT-23-5	453.00/3,000		
NLAS4599DFT2	NLAS4599DFT2OSCT-ND	Low Voltage Single Supply SPDT Analog Switch	SOT-363	.40	.31	.23
NLAS4599DFT2G	NLAS4599DFT2GOSCT-ND	Low Voltage Single Supply SPDT Analog Switch* ***NEW!***	SOT-363	.50	.41	.31
NLAS4599DFT2G	NLAS4599DFT2GOSTR-ND	Low Voltage Single Supply SPDT Analog Switch* ***NEW!***	SOT-363	453.00/3,000		
NLAS4684MNR2	NLAS4684MNR2OSCT-ND	Ultra-Low Resistance Dual SPDT Analog Switch	10-QFN	1.73	1.51	1.16
NLAS4684MNR2	NLAS4684MNR2OSTR-ND	Ultra-Low Resistance Dual SPDT Analog Switch	10-QFN	1842.00/3,000		
NLAS4684MNR2G	NLAS4684MNR2GOSCT-ND	Ultra-Low Resistance Dual SPDT Analog Switch* ***NEW!***	10-QFN	1.56	1.35	1.04
NLAS4684MNR2G	NLAS4684MNR2GOSTR-ND	Ultra-Low Resistance Dual SPDT Analog Switch* ***NEW!***	10-QFN	1656.00/3,000		
NLAS44599DTR2	NLAS44599DTR2OSCT-ND	Dual DPDT Analog Switch	16-TSSOP	1.25	1.00	.75
NLAS44599DTR2G	NLAS44599DTR2GOSCT-ND	Dual DPDT Analog Switch*	16-TSSOP	1.25	1.00	.75
NLAS44599DTR2G	NLAS44599DTR2GOSTR-ND	Dual DPDT Analog Switch*	16-TSSOP	1600.00/2,500		
NLAS44599MNR2	NLAS44599MNR2OSCT-ND	Dual DPDT Analog Switch	16-QFN	1.38	1.10	.83
NLAS44599MNR2	NLAS44599MNR2OSTR-ND	Dual DPDT Analog Switch	16-QFN	2145.00/3,000		
NLASB3157DFT2	NLASB3157DFT2OSCT-ND	2:1 Multiplexer	SOT-363	.54	.42	.30
NLASB3157DFT2	NLASB3157DFT2OSTR-ND	2:1 Multiplexer	SOT-363	423.00/3,000		
NLASB3157DFT2G	NLASB3157DFT2GOSCT-ND	2:1 Multiplexer* ***NEW!***	SOT-363	.54	.42	.30
NLASB3157DFT2G	NLASB3157DFT2GOSTR-ND	2:1 Multiplexer* ***NEW!***	SOT-363	423.00/3,000		
NLAST4051DR2	NLAST4051DR2OSCT-ND	Analog Mux/Demux	16-SOIC	.81	.68	.54
NLAST4051DTR2	NLAST4051DTR2OSCT-ND	Analog Mux/Demux	16-TSSOP	.81	.68	.54
NLAST4052DTR2	NLAST4052DTR2OSCT-ND	Analog Mux/Demux	16-TSSOP	.81	.68	.54
NLAST4052DTR2	NLAST4052DTR2OSTR-ND	Analog Mux/Demux	16-TSSOP	872.50/2,500		
NLAST4599DFT2G	NLAST4599DFT2GOSCT-ND	Low Voltage Single Supply SPDT Analog Switch* ***NEW!***	SOT-363	.50	.41	.31
NLAST4599DFT2G	NLAST4599DFT2GOSTR-ND	Low Voltage Single Supply SPDT Analog Switch* ***NEW!***	SOT-363	453.00/3,000		
NLAST44599DTR2	NLAST44599DTROSCT-ND	Dual DPDT Analog Switch	16-TSSOP	1.25	1.00	.75
NLAST44599DTR2	NLAST44599DTROSTR-ND	Dual DPDT Analog Switch	16-TSSOP	1600.00/2,500		
NLSF595DTR2	NLSF595DTR2OSCT-ND	SPI Tri-Color LED Driver	16-TSSOP	.80	.67	.54
NLSF595MNR2	NLSF595MNR2OSCT-ND	SPI Tri-Color LED Driver	16-QFN	1.14	.95	.76
NLSF595MNR2	NLSF595MNR2OSTR-ND	SPI Tri-Color LED Driver	16-QFN	1482.00/3,000		
NUD3105LT1	NUD3105LT1OSCT-ND	Integrated Relay, Inductive Load Driver	SOT-23	.55	.44	.33
NUD3105LT1	NUD3105LT1OSTR-ND	Integrated Relay, Inductive Load Driver	SOT-23	567.00/3,000		
NUD3112DMT1	NUD3112DMT1OSCT-ND	Integrated Relay, Inductive Load Driver	SC-74	.76	.57	.43
NUD3112DMT1	NUD3112DMT1OSTR-ND	Integrated Relay, Inductive Load Driver	SC-74	741.00/3,000		
NUD4011DR2	NUD4011DR2OSCT-ND	Low Current LED Driver	8-SOIC	1.20	.90	.68
NUD4011DR2	NUD4011DR2OSTR-ND	Low Current LED Driver	8-SOIC	975.00/2,500		
NUF2101MT1	NUF2101MT1OSCT-ND	USB Filter with ESD Protection	6-TSOP	.80	.60	.45
NUF2221W1T2	NUF2221W1T2OSCT-ND	USB Upstream Terminator with ESD Protection	SOT-363	.85	.69	.52
NUF2221W1T2	NUF2221W1T2OSTR-ND	USB Upstream Terminator with ESD Protection	SOT-363	810.00/3,000		
NUF2221W1T2G	NUF2221W1T2GOSCT-ND	USB Upstream Terminator with ESD Protection*	SOT-363	.85	.69	.52
NUF2221W1T2G	NUF2221W1T2GOSTR-ND	USB Upstream Terminator with ESD Protection*	SOT-363	810.00/3,000		
NUF2441FCT1G	NUF2441FCT1GOSCT-ND	Integrated Passive Filter with ESD Protection*	6-Flip Chip	.75	.63	.50
NUF2441FCT1G	NUF2441FCT1GOSTR-ND	Integrated Passive Filter with ESD Protection*	6-Flip Chip	975.00/3,000		
NUF3101FCT1G	NUF3101FCT1GOSCT-ND	3-Line EMI Filter*	8-Flip Chip	.75	.63	.50
NUF3101FCT1G	NUF3101FCT1GOSTR-ND	3-Line EMI Filter*	8-Flip Chip	975.00/3,000		
NUF4105FCT1	NUF4105FCT1OSCT-ND	4-Channel, EMI Pi-Filter Array with ESD Protection +4 ESD Diodes	Flip Chip	.80	.65	.49
NUF4105FCT1	NUF4105FCT1OSTR-ND	4-Channel, EMI Pi-Filter Array with ESD Protection +4 ESD Diodes	Flip Chip	762.00/3,000		
NUF4107FCT1G	NUF4107FCT1GOSCT-ND	4-Channel, EMI Pi-Filter Array with Full USB Filter*	Flip Chip	.90	.75	.60
NUF4107FCT1G	NUF4107FCT1GOSTR-ND	4-Channel, EMI Pi-Filter Array with Full USB Filter*	Flip Chip	1170.00/3,000		
NUF6106FCT1	NUF6106FCT1OSCT-ND	6-Channel, EMI Pi-Filter Array with ESD Protection	Flip Chip	.90	.75	.60
NUF6106FCT1	NUF6106FCT1OSTR-ND	6-Channel, EMI Pi-Filter Array with ESD Protection	Flip Chip	1170.00/3,000		
NUF9001FCT1	NUF9001FCT1OSCT-ND	10-Line EMI Filter	Flip Chip	1.25	1.00	.75
NUF9001FCT1	NUF9001FCT1OSTR-ND	10-Line EMI Filter	Flip Chip	1920.00/3,000		
NUF9001FCT1G	NUF9001FCT1GOSCT-ND	10-Line EMI Filter*	Flip Chip	1.25	1.00	.75
NUF9001FCT1G	NUF9001FCT1GOSTR-ND	10-Line EMI Filter*	Flip Chip	1920.00/3,000		
NUP2201MR6T1	NUP2201MR6T1OSCT-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection	6-TSOP	1.11	.97	.75
NUP2201MR6T1	NUP2201MR6T1OSTR-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection	6-TSOP	1182.00/3,000		
NUP2201MR6T1G	NUP2201MR6T1GOSCT-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection*	6-TSOP	1.11	.97	.75
NUP2201MR6T1G	NUP2201MR6T1GOSTR-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection*	6-TSOP	1182.00/3,000		
NUP4201DR2	NUP4201DR2OSCT-ND	Low Capacitance Surface Mount TVS	8-SOIC	1.78	1.49	1.25
NUP4201DR2	NUP4201DR2OSTR-ND	Low Capacitance Surface Mount TVS	8-SOIC	1927.50/2,500		
NUP4201MR6T1	NUP4201MR6T1OSCT-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection	6-TSOP	1.11	.97	.75
NUP4201MR6T1	NUP4201MR6T1OSTR-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection	6-TSOP	1182.00/3,000		
NUP4201MR6T1G	NUP4201MR6T1GOSCT-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection*	6-TSOP	1.11	.97	.75
NUP4201MR6T1G	NUP4201MR6T1GOSTR-ND	Low Capacitance Diode TVS Array for High Speed Data Line Protection*	6-TSOP	1182.00/3,000		
NUP6101DMR2	NUP6101DMR2OSCT-ND	Unidirectional TVS Array	8-Micro	1.26	1.05	.84
NUP6101DMR2	NUP6101DMR2OSTR-ND	Unidirectional TVS Array	8-Micro	2184.00/4,000		
NZF220DFT1	NZF220DFT1OSCT-ND	EMI Filter with ESD Protection	SOT-353	.55	.44	.33
NZF220DFT1	NZF220DFT1OSTR-ND	EMI Filter with ESD Protection	SOT-353	615.00/3,000		
NZF220TT1	NZF220TT1OSCT-ND	EMI Filter with ESD Protection	SOT-416	.53	.41	.30
NZF220TT1	NZF220TT1OSTR-ND	EMI Filter with ESD Protection	SOT-416	417.00/3,000		
NZMM7V0T4	NZMM7V0T4OSCT-ND	EMI Filter with ESD Protection	24-MLF	1.70	1.36	1.02
NZMM7V0T4	NZMM7V0T4OSTR-ND	EMI Filter with ESD Protection	24-MLF	3480.00/4,000		
SG3525AN	SG3525ANOS-ND	PWM Control Circuit	16-Dip	1.80	1.50	1.20
STF202-22T1	STF202-22T1OSCT-ND	USB Filter with ESD Protection	6-TSOP	.71	.57	.43
STF202-22T1	STF202-22T1OSTR-ND	USB Filter with ESD Protection	6-TSOP	642.00/3,000		
STF202-22T1G	STF202-22T1GOSCT-ND	USB Filter with ESD Protection*	6-TSOP	.71	.57	.43
STF202-22T1G	STF202-22T1GOSTR-ND	USB Filter with ESD Protection*	6-TSOP	642.00/3,000		
TDA1085C	TDA1085COS-ND	Universal Motor Speed Controller	16-Dip	2.01	1.68	1.41
TL431ACDR2	TL431ACDR2OSCT-ND	2.5V, Programmable Precision Ref.	8-SOIC	.58	.45	.33
TL431ACDR2	TL431ACDR2OSTR-ND	2.5V, Programmable Precision Ref.	8-SOIC	322.50/2,500		
TL431ACLP	TL431ACLPOS-ND	2.5V, Programmable Precision Ref.	TO-92	.49	.38	.49
TL431AIDR2	TL431AIDR2OSCT-ND	2.5V, Programmable Precision Ref.	8-SOIC	.51	.41	.51
TL431AIDR2	TL431AIDR2OSTR-ND	2.5V, Programmable Precision Ref.	8-SOIC	280.00/2,500		
TL431AILPRA	TL431AILPRAOS-ND	2.5V, Programmable Precision Ref.	TO-92	.41	.34	.41
TL431BIDR2	TL431BIDR2OSCT-ND	2.5V, Programmable Precision Ref.	8-SOIC	.71	.57	.71
TL431CDR2	TL431CDR2OSCT-ND	2.5V, Programmable Precision Ref.	8-SOIC	.47	.36	.47
TL431CDR2	TL431CDR2OSTR-ND	2.5V, Programmable Precision Ref.	8-SOIC	247.50/2,500		
TL431CLP	TL431CLPOS-ND	2.5V, Programmable Precision Ref	TO-92	.38	.31	.38
TL431IDR2	TL431IDR2OSCT-ND	2.5V, Programmable Precision Ref.	8-SOIC	.32	.24	.32

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(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ON Semiconductor™ INTERGATED CIRCUITS (*Continued*)

ON Semiconductor Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TL431IDR2	TL431IDR2OSTR-ND	2.5V, Programmable Precision Ref.	8-SOIC	337.50/2,500		
TL431ILPRA	TL431ILPRAOS-ND	2.5V, Programmable Precision Ref.	TO-92	.47	.38	.47
TL494CN	TL494CNOS-ND	Switchmode™ Pulse Width Modulation Control Circuit	16-Dip	.93	.71	.93
UC2843ADR2	UC2843ADR2OSCT-ND	High Perf. Current Mode Controller	14-SOIC	.58	.49	.58
UC2843ADR2	UC2843ADR2OSTR-ND	High Perf. Current Mode Controller	14-SOIC	625.00/2,500		
UC2843AN	UC2843ANOS-ND	High Perf. Current Mode Controller	8-Dip	.86	.65	.86
UC2844N	UC2844NOS-ND	High Perf. Current Mode Controller	8-Dip	.86	.65	.86
UC2845N	UC2845NOS-ND	High Perf. Current Mode Controller	8-Dip	.77	.58	.77
UC3842ADR2	UC3842ADR2OSCT-ND	High Perf. Current Mode Controller	14-SOIC	.78	.63	.78
UC3842ADR2	UC3842ADR2OSTR-ND	High Perf. Current Mode Controller	14-SOIC	617.50/2,500		
UC3842AN	UC3842ANOS-ND	High Perf. Current Mode Controller	8-Dip	.78	.63	.78
UC3842BN	UC3842BNOS-ND	High Perf. Current Mode Controller	8-Dip	.73	.59	.73
UC3843AN	UC3843ANOS-ND	High Perf. Current Mode Controller	8-Dip	.75	.56	.75
UC3843BN	UC3843BNOS-ND	High Perf. Current Mode Controller	8-Dip	.73	.59	.73
UC3843BVD1R2	UC3843BVD1R2OSCT-ND	High Perf. Current Mode Controller	8-SOIC	1.29	1.08	1.29
UC3843BVDR2	UC3843BVDR2OSCT-ND	High Perf. Current Mode Controller	14-SOIC	1.29	1.08	1.29
UC3843BVDR2	UC3843BVDR2OSTR-ND	High Perf. Current Mode Controller	14-SOIC	1397.50/2,500		
UC3844BD	UC3844BDOS-ND	High Perf. Current Mode Controller	14-SOIC	.89	.72	.89
UC3844N	UC3844NOS-ND	High Perf. Current Mode Controller	8-Dip	.70	.53	.70
UC3845DR2	UC3845DR2OSCT-ND	High Perf. Current Mode Controller	14-SOIC	.51	.43	.51
UC3845DR2	UC3845DR2OSTR-ND	High Perf. Current Mode Controller	14-SOIC	550.00/2,500		
UC3845N	UC3845NOS-ND	High Perf. Current Mode Controller	8-Dip	.70	.53	.70

* ***RoHS Compliant***

Allegro *NEW!* HALL-EFFECT SENSORS — *RoHS Compliant*

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
A1101LLHLT-T	620-1000-1-ND	Continuous-Time Switch Family	SOT23	1.40	1.12	.84
A1101LLHLT-T	620-1000-2-ND	Continuous-Time Switch Family	SOT23	2151.00/3,000		
A1101LUA-T	620-1001-ND	Continuous-Time Switch Family	3-SIP	1.40	1.12	.84
A1102LLHLT-T	620-1002-1-ND	Continuous-Time Switch Family	SOT23	1.40	1.12	.84
A1102LLHLT-T	620-1002-2-ND	Continuous-Time Switch Family	SOT23	2151.00/3,000		
A1102LUA-T	620-1003-ND	Continuous-Time Switch Family	3-SIP	1.40	1.12	.84
A1103LLHLT-T	620-1004-1-ND	Continuous-Time Switch Family	SOT23	1.40	1.12	.84
A1103LLHLT-T	620-1004-2-ND	Continuous-Time Switch Family	SOT23	2151.00/3,000		
A1103LUA-T	620-1005-ND	Continuous-Time Switch Family	3-SIP	1.40	1.12	.84
A1201LLHLT-T	620-1007-1-ND	Continuous-Time Bipolar Switch Family	SOT23	1.48	1.18	.89
A1201LLHLT-T	620-1007-2-ND	Continuous-Time Bipolar Switch Family	SOT23	2265.00/3,000		
A1201LUA-T	620-1008-ND	Continuous-Time Bipolar Switch Family	3-SIP	1.48	1.18	.89
A1202LLHLT-T	620-1009-1-ND	Continuous-Time Bipolar Switch Family	SOT23	1.40	1.12	.84
A1202LLHLT-T	620-1009-2-ND	Continuous-Time Bipolar Switch Family	SOT23	2151.00/3,000		
A1202LUA-T	620-1010-ND	Continuous-Time Bipolar Switch Family	3-SIP	1.40	1.12	.84
A1203LLHLT-T	620-1011-1-ND	Continuous-Time Bipolar Switch Family	SOT23	1.44	1.20	.96
A1203LLHLT-T	620-1011-2-ND	Continuous-Time Bipolar Switch Family	SOT23	2151.00/3,000		
A1203LUA-T	620-1012-ND	Continuous-Time Bipolar Switch Family	3-SIP	1.44	1.20	.96
A1210LLHLT-T	620-1013-1-ND	Continuous-Time Latch Family	SOT23	1.40	1.12	.84
A1210LLHLT-T	620-1013-2-ND	Continuous-Time Latch Family	SOT23	2151.00/3,000		
A1210LUA-T	620-1014-ND	Continuous-Time Latch Family	3-SIP	1.40	1.12	.84
A1211LLHLT-T	620-1015-1-ND	Continuous-Time Latch Family	SOT23	1.35	1.13	.90
A1211LLHLT-T	620-1015-2-ND	Continuous-Time Latch Family	SOT23	1755.00/3,000		
A1211LUA-T	620-1016-ND	Continuous-Time Latch Family	3-SIP	1.35	1.13	.90
A1212LLHLT-T	620-1017-1-ND	Continuous-Time Latch Family	SOT23	1.48	1.18	.89
A1212LLHLT-T	620-1017-2-ND	Continuous-Time Latch Family	SOT23	2265.00/3,000		
A1212LUA-T	620-1018-ND	Continuous-Time Latch Family	3-SIP	1.48	1.18	.89
A1301KLHLT-T	620-1019-1-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	SOT23	1.26	1.05	.84
A1301KLHLT-T	620-1019-2-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	SOT23	1638.00/3,000		
A1301KUA-T	620-1020-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	3-SIP	1.26	1.05	.84
A1302KLHLT-T	620-1021-1-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	SOT23	1.26	1.05	.84
A1302KLHLT-T	620-1021-2-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	SOT23	1638.00/3,000		
A1302KUA-T	620-1022-ND	Continuous-Time Ratiometric Linear Hall Effect Sensors	3-SIP	1.26	1.05	.84
A1321LLHLT-T	620-1023-1-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT23	1.45	1.16	.87
A1321LLHLT-T	620-1023-2-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT23	2226.00/3,000		
A1321LUA-T	620-1024-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	3-SIP	1.45	1.16	.87
A1322LLHLT-T	620-1025-1-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT23	1.45	1.16	.87
A1322LLHLT-T	620-1025-2-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT23	2226.00/3,000		
A1322LUA-T	620-1026-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	3-SIP	1.45	1.16	.87
A1323LLHLT-T	620-1027-1-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT23	1.45	1.16	.87
A1323LLHLT-T	620-1027-2-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	SOT23	2226.00/3,000		
A1323LUA-T	620-1028-ND	Ratiometric Linear Hall Effect Sensor for High Temperature Operation	3-SIP	1.45	1.16	.87
A1373LKB-T	620-1029-ND	High Precision, Output Pin Programmable Linear Hall Effect Sensors	3-SIP	2.15	1.72	1.29
A1374LKB-T	620-1030-ND	High Precision, Output Pin Programmable Linear Hall Effect Sensors	3-SIP	2.15	1.72	1.29
A1391SEHLT-T	620-1031-1-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1.30	1.04	.78
A1391SEHLT-T	620-1031-2-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1998.00/3,000		
A1392SEHLT-T	620-1032-1-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1.30	1.04	.78
A1392SEHLT-T	620-1032-2-ND	Micro Power 3V Linear Hall Effect Sensor with Tri-State Output	6-MLP	1998.00/3,000		
A2982ELW-T	620-1033-ND	8-Channel Source Drivers	20-SOIC	1.98	1.58	1.19
A3211EEHLT-T	620-1034-1-ND	Micropower, Ultra-Sensitive Hall Effect Switches	2x2-MLPD	.93	.78	.62
A3211EEHLT-T	620-1034-2-ND	Micropower, Ultra-Sensitive Hall Effect Switches	2x2-MLPD	1209.00/3,000		
A3211EELLT-T	620-1035-ND	Micropower, Ultra-Sensitive Hall Effect Switches	2x2-MLPD	.87	.73	.58
A3211ELHLT-T	620-1036-1-ND	Micropower, Ultra-Sensitive Hall Effect Switches	SOT23	.96	.80	.64
A3211ELHLT-T	620-1036-2-ND	Micropower, Ultra-Sensitive Hall Effect Switches	SOT23	1248.00/3,000		
A3212EEHLT-T	620-1037-1-ND	Micropower, Ultra-Sensitive Hall Effect Switches	2x2-MLPD	.87	.73	.58
A3212EEHLT-T	620-1037-2-ND	Micropower, Ultra-Sensitive Hall Effect Switches	2x2-MLPD	1131.00/3,000		
A3212EELLT-T	620-1038-ND	Micropower, Ultra-Sensitive Hall Effect Switches	2x2-MLPD	.84	.70	.56
A3212ELHLT-T	620-1039-1-ND	Micropower, Ultra-Sensitive Hall Effect Switches	SOT23	.84	.70	.56
A3212ELHLT-T	620-1039-2-ND	Micropower, Ultra-Sensitive Hall Effect Switches	SOT23	1131.00/3,000		
A3212EUA-T	620-1040-ND	Micropower, Ultra-Sensitive Hall Effect Switches	3-SIP	.93	.78	.62
A3213ELHLT-T	620-1041-1-ND	Micropower, Ultra-Sensitive Hall Effect Switches	SOT23	1.05	.88	.70
A3213ELHLT-T	620-1041-2-ND	Micropower, Ultra-Sensitive Hall Effect Switches	SOT23	1365.00/3,000		
A3213LLHLT-T	620-1042-1-ND	Micropower, Ultra-Sensitive Hall Effect Switches	SOT23	1.25	1.00	.75
A3213LLHLT-T	620-1042-2-ND	Micropower, Ultra-Sensitive Hall Effect Switches	SOT23	1920.00/3,000		
A3213LUA-T	620-1043-ND	Micropower, Ultra-Sensitive Hall Effect Switches	3-SIP	1.25	1.00	.75
A3230LLHLT-T	620-1044-1-ND	Chopper Stabilized Hall Effect Biploar Switch	SOT23	1.23	1.03	.82
A3230LLHLT-T	620-1044-2-ND	Chopper Stabilized Hall Effect Biploar Switch	SOT23	1599.00/3,000		
A3230LUA-T	620-1045-ND	Chopper Stabilized Hall Effect Biploar Switch	3-SIP	1.23	1.03	.82
A3240LLHLT-T	620-1046-1-ND	Chopper Stabilized, Precision Hall Effect Switch	SOT23	1.26	1.05	.84
A3240LLHLT-T	620-1046-2-ND	Chopper Stabilized, Precision Hall Effect Switch	SOT23	1638.00/3,000		
A3240LUA-T	620-1047-ND	Chopper Stabilized, Precision Hall Effect Switch	3-SIP	1.26	1.05	.84
A3241LLHLT-T	620-1048-1-ND	Chopper Stabilized Unipolar Hall Effect Switches	SOT23	1.20	1.00	.80
A3241LLHLT-T	620-1048-2-ND	Chopper Stabilized Unipolar Hall Effect Switches	SOT23	1560.00/3,000		
A3242LLHLT-T	620-1049-1-ND	Chopper Stabilized Unipolar Hall Effect Switches	SOT23	1.20	1.00	.80
A3242LLHLT-T	620-1049-2-ND	Chopper Stabilized Unipolar Hall Effect Switches	SOT23	1560.00/3,000		
A3242LUA-T	620-1050-ND	Chopper Stabilized Unipolar Hall Effect Switches	3-SIP	1.20	1.00	.80
A3280LLHLT-T	620-1051-1-ND	Chopper Stabilized, Precision Hall Effect Latches	SOT23	1.26	1.05	.84
A3280LLHLT-T	620-1051-2-ND	Chopper Stabilized, Precision Hall Effect Latches	SOT23	1638.00/3,000		
A3280LUA-T	620-1052-ND	Chopper Stabilized, Precision Hall Effect Latches	4-SIP	1.26	1.05	.84
A3281LLHLT-T	620-1053-1-ND	Chopper Stabilized, Precision Hall Effect Latches	SOT23	1.26	1.05	.84
A3281LLHLT-T	620-1053-2-ND	Chopper Stabilized, Precision Hall Effect Latches	SOT23	1638.00/3,000		
A3281LUA-T	620-1054-ND	Chopper Stabilized, Precision Hall Effect Latches	4-SIP	1.26	1.05	.84
A3282LLHLT-T	620-1055-1-ND	Chopper Stabilized Hall Effect Latch	SOT23	1.20	1.00	.80
A3282LLHLT-T	620-1055-2-ND	Chopper Stabilized Hall Effect Latch	SOT23	1560.00/3,000		
A3282LUA-T	620-1056-ND	Chopper Stabilized Hall Effect Latch	3-SIP	1.20	1.00	.80

Allegro *NEW!* POWER ICs — *RoHS Compliant*

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
A3936SED-T	620-1057-ND	DMOS 3-Phase PWM Motor Driver	44-PLCC	6.18	4.95	4.18
A3940KLP-T	620-1058-ND	Full Bridge Power Mosfet Controller	28-TSSOP	4.19	3.35	2.61
A3940KLW-T	620-1059-ND	Full Bridge Power Mosfet Controller	28-SOIC	3.87	3.10	2.41
A3946KLB-T	620-1060-ND	Half Bridge Power Mosfet Controller	16-SOIC	2.75	2.20	1.71
A3946KLP-T	620-1061-ND	Half Bridge Power Mosfet Controller	16-TSSOP	2.86	2.29	1.78
A3949SLB-T	620-1062-ND	DMOS Full Bridge Motor Driver	16-SOIC	2.75	2.20	1.71
A3949SLP-T	620-1063-ND	DMOS Full Bridge Motor Driver	16-TSSOP	2.90	2.33	1.81
A3950SLP-T	620-1064-ND	DMOS Full Bridge Motor Driver	16-TSSOP	2.90	2.33	1.81
A3953SB-T	620-1065-ND	Full Bridge PWM Motor Driver	16-Dip	3.02	2.42	1.88
A3953SLB-T	620-1066-ND	Full Bridge PWM Motor Driver	16-SOIC	3.02	2.42	1.88
A3955SB-T	620-1067-ND	Full Bridge PWM Microstepping Motor Driver	16-Dip	2.88	2.31	1.80
A3955SLB-T	620-1068-ND	Full Bridge PWM Microstepping Motor Driver	16-SOIC	2.88	2.31	1.80
A3959SB-T	620-1069-ND	DMOS Full Bridge PWM Motor Driver	24-Dip	4.75	3.80	2.96
A3959SLB-T	620-1070-ND	DMOS Full Bridge PWM Motor Driver	24-SOIC	4.75	3.80	2.96
A3959SLP-T	620-1071-ND	DMOS Full Bridge PWM Motor Driver	28-SOIC	4.86	3.89	3.03
A3966SLB-T	620-1072-ND	Dual Full Bridge PWM Motor Driver	16-SOIC	2.36	1.89	1.47
A3967SLB-T	620-1073-ND	Microstepping Driver with Translator	24-SOIC	2.75	2.20	1.71
A3973SB-T	620-1074-ND	Dual DMOS Full Bridge Microstepping PWM Motor Driver	24-Dip	5.56	4.45	3.46
A3973SLB-T	620-1075-ND	Dual DMOS Full Bridge Microstepping PWM Motor Driver	24-SOIC	5.56	4.45	3.46
A3977KED-T	620-1076-ND	Microstepping DMOS Driver with Translator	44-PLCC	6.14	4.92	4.15
A3977KLP-T	620-1077-ND	Microstepping DMOS Driver with Translator	28-TSSOP	6.14	4.92	4.15
A3977SED-T	620-1078-ND	Microstepping DMOS Driver with Translator	44-PLCC	5.54	4.44	3.74

(Continued)

Allegro MicroSystems, Inc.

NEW! POWER ICs — *RoHS Compliant (Continued)*

Allegro Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
A3977SLP-T	620-1079-ND	Microstepping DMOS Driver with Translator	28-TSSOP	5.54	4.44	3.74
A3979SLP-T	620-1080-ND	Microstepping DMOS Driver with Translator	28-TSSOP	5.54	4.44	3.74
A3980KLP-T	620-1081-ND	Automotive DMOS Microstepping Driver with Translator	28-TSSOP	4.84	3.87	3.01
A3982SLB-T	620-1082-ND	DMOS Stepper Motor Driver with Translator	24-SOIC	3.74	2.99	2.33
A3983SLP-T	620-1083-ND	DMOS Microstepping Driver with Translator	24-TSSOP	4.03	3.23	2.51
A3984SLP-T	620-1084-ND	DMOS Microstepping Driver with Translator	24-TSSOP	4.03	3.23	2.51
A6275SLW-T	620-1085-ND	8-Bit Serial Input, Constant Current Latched LED Driver	16-SOIC	1.55	1.24	.93
A6276ELW-T	620-1086-ND	16-Bit Serial Input, Constant Current Latched LED Driver	24-SOIC	2.45	1.96	1.47
A6277ELW-T	620-1087-ND	8-Bit Serial Input, Constant Current Latched LED Driver	20-SOIC	2.45	1.96	1.47
A6800SA-T	620-1088-ND	DABiC-5 Latched Sink Drivers	14-Dip	1.43	1.14	.86
A6800SL-T	620-1089-ND	DABiC-5 Latched Sink Drivers	14-SOIC	1.58	1.26	.95
A6801SA-T	620-1090-ND	DABiC-5 Latched Sink Drivers	22-Dip	2.10	1.68	1.26
A6801SLW-T	620-1091-ND	DABiC-5 Latched Sink Drivers	24-SOIC	2.10	1.68	1.26
A6810SA-T	620-1092-ND	DABiC-IV, 10-Bit Serial Input, Latched Source Driver	18-Dip	1.83	1.46	1.10
A6812ELW-T	620-1093-ND	DABiC-IV, 20-Bit Serial Input, Latched Source Driver	28-SOIC	4.16	3.33	2.59
A6818SEP-T	620-1094-ND	DABiC-IV, 32-Bit Serial Input, Latched Source Driver	44-PLCC	5.06	4.05	3.42
A6821SA-T	620-1095-ND	DABiC-5 8-Bit Serial Input Latched Sink Drivers	16-Dip	2.25	1.80	1.35
A6821SLW-T	620-1096-ND	DABiC-5 8-Bit Serial Input Latched Sink Drivers	16-SOIC	2.38	1.90	1.43
A8430EEKTR-T	620-1097-1-ND	White LED Driver Constant Current Step-Up Converter	5-MLPD	.88	.66	.50
A8430EEKTR-T	620-1097-2-ND	White LED Driver Constant Current Step-Up Converter	5-MLPD	439.50/1,500		
A8436EEJTR-T	620-1098-1-ND	Photoflash Capacitor Charger	10-MLP	1.33	1.06	.80
A8436EEJTR-T	620-1098-2-ND	Photoflash Capacitor Charger	10-MLP	1033.50/1,500		
A8438EEJTR-T	620-1099-1-ND	Photoflash Capacitor Charger	10-MLP	1.40	1.12	.84
A8438EEJTR-T	620-1099-2-ND	Photoflash Capacitor Charger	10-MLP	1092.00/1,500		
A8450KLB-T	620-1100-ND	Automotive Multioutput Voltage Reg.	24-SOIC	4.14	3.32	2.58
A8483EEKTR-T	620-1101-1-ND	1.2MHz Step-Up Converter for Display Bias Supply	5-MLP	.81	.68	.54
A8483EEKTR-T	620-1101-2-ND	1.2MHz Step-Up Converter for Display Bias Supply	5-MLP	538.50/1,500		
A8499SLJTR-T	620-1102-1-ND	High Voltage Step Down Regulator	8-SOIC	1.55	1.24	.93
A8499SLJTR-T	620-1102-2-ND	High Voltage Step Down Regulator	8-SOIC	2382.00/3,000		
A8904SLB-T	620-1103-ND	3-Phase Brushless DC Motor Controller/Driver with Back-EMF Sensing	24-SOIC	8.46	7.62	6.76
A8904SLP-T	620-1104-ND	3-Phase Brushless DC Motor Controller/Driver with Back-EMF Sensing	28-TSSOP	8.65	7.79	6.91
ACS754KCB-150-PFF	620-1105-ND	Current Sensor	CB-5	5.08	4.07	3.43
ACS754LCB-050-PFF	620-1106-ND	Current Sensor	CB-5	5.54	4.43	3.45
ACS754LCB-100-PFF	620-1107-ND	Current Sensor	CB-5	5.54	4.43	3.45
ACS754LCB-100-PSF	620-1108-ND	Current Sensor	CB-5	5.26	4.21	3.56
ACS754LCB-130-PFF	620-1109-ND	Current Sensor	CB-5	5.26	4.21	3.56
ACS755LCB-050-PFF	620-1110-ND	Current Sensor	CB-5	5.54	4.43	3.45
ACS755LCB-100-PFF	620-1111-ND	Current Sensor	CB-5	5.54	4.43	3.45
ACS755SCB-050-PFF	620-1112-ND	Current Sensor	CB-5	5.18	4.14	3.22
ACS755SCB-100-PFF	620-1113-ND	Current Sensor	CB-5	5.18	4.14	3.22
ACS755SCB-150-PSF	620-1114-ND	Current Sensor	CB-5	5.18	4.14	3.22
ACS755SCB-200-PSF	620-1115-ND	Current Sensor	CB-5	5.18	4.14	3.22
ATS616LSGTN-T	620-1116-1-ND	Dynamic Self-Calibrating Peak Detecting Diff. Hall Effect Gear Tooth Sensor	4-SIP	4.32	3.46	2.69
ATS616LSGTN-T	620-1116-2-ND	Dynamic Self-Calibrating Peak Detecting Diff. Hall Effect Gear Tooth Sensor	4-SIP	1996.80/800		
L6219DSTR-T	620-1117-1-ND	Dual Full Bridge PWM Motor Driver	24-SOIC	3.89	3.12	2.43
L6219DSTR-T	620-1117-2-ND	Dual Full Bridge PWM Motor Driver	24-SOIC	2002.00/1,000		
UDN2916B-T	620-1118-ND	Dual Full Bridge PWM Motor Driver	24-Dip	3.53	2.83	2.20
UDN2916LB-T	620-1119-ND	Dual Full Bridge PWM Motor Driver	24-SOIC	3.53	2.83	2.20
UDN2981A-T	620-1120-ND	8-Channel Source Drivers	18-Dip	1.78	1.42	1.07
UDN2982A-T	620-1121-ND	8-Channel Source Drivers	18-Dip	1.78	1.42	1.07
A8435EESTR-T	620-1124-1-ND	High Efficiency Charge Pump White LED Driver	16MLP	1.35	1.08	.81
A8435EESTR-T	620-1124-2-ND	High Efficiency Charge Pump White LED Driver	16-MLP	1053.00/1,500		

STMicroelectronics

74AC/ACT/ALV SERIES
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
74AC02B	497-1324-5-ND	Quad 2-Input NOR Gate	14-Dip	.51	.39	.29
74AC04MTR	497-1015-1-ND	Hex Inverter	14-SOIC	.55	.44	.33
74AC04MTR	497-1015-2-ND	Hex Inverter	14-SOIC	412.50/2,500		
74AC08B	497-1325-5-ND	Quad 2-Input AND Gate	14-Dip	.51	.39	.29
74AC08MTR	497-1016-1-ND	Quad 2-Input AND Gate	14-SOIC	.55	.44	.33
74AC08MTR	497-1016-2-ND	Quad 2-Input AND Gate	14-SOIC	412.50/2,500		
74AC14MTR	497-1019-1-ND	Hex Schmitt Inverter	14-SOIC	.55	.44	.33
74AC14MTR	497-1019-2-ND	Hex Schmitt Inverter	14-SOIC	412.50/2,500		
74AC32MTR	497-1026-1-ND	Quad 2-Input OR Gate	14-SOIC	.48	.38	.29
74AC32MTR	497-1026-2-ND	Quad 2-Input OR Gate	14-SOIC	357.50/2,500		
74AC74B	497-1329-5-ND	Dual D-Type F/F with Preset and Clear	14-Dip	.51	.39	.29
74AC74MTR	497-1030-1-ND	Dual D-Type F/F with Preset and Clear	14-SOIC	.48	.38	.29
74AC74MTR	497-1030-2-ND	Dual D-Type F/F with Preset and Clear	14-SOIC	357.50/2,500		
74AC125MTR	497-1017-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.55	.44	.33
74AC125MTR	497-1017-2-ND	Tri-State Quad Bus Buffer	14-SOIC	412.50/2,500		
74AC240MTR	497-2911-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.68	.54	.41
74AC240MTR	497-2911-2-ND	Tri-State Octal Bus Buffer	20-SOIC	233.001,000		
74AC240TTR	497-2912-1-ND	Tri-State Octal Bus Buffer	20-TSSOP	.65	.52	.36
74AC240TTR	497-2912-2-ND	Tri-State Octal Bus Buffer	20-TSSOP	487.50/2,500		
74AC244MTR	497-1023-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.52	.36
74AC244MTR	497-1023-2-ND	Tri-State Octal Bus Buffer	20-SOIC	208.00/1,000		
74AC244TTR	497-2913-1-ND	Tri-State Octal Bus Buffer	20-TSSOP	.65	.52	.36
74AC244TTR	497-2913-2-ND	Tri-State Octal Bus Buffer	20-TSSOP	487.50/2,500		
74AC245B	497-1327-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.72	.58	.44
74AC245MTR	497-1024-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.70	.56	.38
74AC245MTR	497-1024-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	224.00/1,000		
74AC245TTR	497-2914-1-ND	Tri-State Octal Bus Transceiver	20-TSSOP	.85	.68	.46
74AC245TTR	497-2914-2-ND	Tri-State Octal Bus Transceiver	20-TSSOP	637.50/2,500		
74AC257MTR	497-1025-1-ND	Tri-State Quad 2-Channel Mux	16-SOIC	.65	.52	.36
74AC257MTR	497-1025-2-ND	Tri-State Quad 2-Channel Mux	16-SOIC	487.50/2,500		
74AC374B	497-1328-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.72	.58	.44
74AC374MTR	497-1027-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.81	.65	.49
74AC374MTR	497-1027-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	279.00/1,000		
74AC541MTR	497-2915-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.85	.68	.46
74AC541MTR	497-2915-2-ND	Tri-State Octal Bus Buffer	20-SOIC	272.00/1,000		
74AC573MTR	497-1028-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.65	.52	.36
74AC573MTR	497-1028-2-ND	Tri-State Octal D-Type Latch	20-SOIC	208.00/1,000		
74AC574MTR	497-1029-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.65	.52	.36
74AC574MTR	497-1029-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	208.00/1,000		
74AC16244TTR	497-1020-1-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74AC16244TTR	497-1020-2-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1044.00/2,000		
74ACT02B	497-1330-5-ND	Quad 2-Input NOR Gate	14-Dip	.51	.39	.29
74ACT02MTR	497-1031-1-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.30	.23
74ACT02MTR	497-1031-2-ND	Quad 2-Input NOR Gate	14-SOIC	320.00/2,500		
74ACT14MTR	497-1034-1-ND	Hex Schmitt Inverter	14-SOIC	.42	.33	.24
74ACT14MTR	497-1034-2-ND	Hex Schmitt Inverter	14-SOIC	277.50/2,500		
74ACT138MTR	497-1033-1-ND	3-8 Inverting Line Decoder	16-SOIC	.70	.56	.42
74ACT138MTR	497-1033-2-ND	3-8 Inverting Line Decoder	16-SOIC	525.00/2,500		
74ACT240MTR	497-1040-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.75	.60	.41
74ACT240MTR	497-1040-2-ND	Tri-State Octal Bus Buffer	20-SOIC	240.00/1,000		
74ACT244B	497-1331-5-ND	Tri-State Octal Bus Buffer	20-Dip	1.16	1.01	.78
74ACT244MTR	497-1041-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.52	.36
74ACT244MTR	497-1041-2-ND	Tri-State Octal Bus Buffer	20-SOIC	208.00/1,000		
74ACT244TTR	497-2916-1-ND	Tri-State Octal Bus Buffer	20-TSSOP	.65	.52	.36
74ACT244TTR	497-2916-2-ND	Tri-State Octal Bus Buffer	20-TSSOP	487.50/2,500		
74ACT257MTR	497-1042-1-ND	Tri-State Quad 2-Channel Mux	16-SOIC	.60	.48	.36
74ACT257MTR	497-1042-2-ND	Tri-State Quad 2-Channel Mux	16-SOIC	450.00/2,500		
74ACT273B	497-1332-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.72	.58	.44
74ACT273MTR	497-1043-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.80	.58	.44
74ACT273MTR	497-1043-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	256.00/1,000		
74ACT299TTR	497-4140-1-ND	8-Bit PIPO Shift Register	20-TSSOP	.68	.54	.41
74ACT299TTR	497-4140-2-ND	8-Bit PIPO Shift Register	20-TSSOP	535.00/2,500		
74ACT374TTR	497-4141-1-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.68	.54	.41
74ACT374TTR	497-4141-2-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	535.00/2,500		
74ACT541MTR	497-1044-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.90	.72	.49
74ACT541MTR	497-1044-2-ND	Tri-State Octal Bus Buffer	20-SOIC	288.00/1,000		
74ACT573B	497-1334-5-ND	Tri-State Octal D-Type Latch	20-Dip	.72	.58	.44
74ACT573MTR	497-1045-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.65	.52	.36
74ACT573MTR	497-1045-2-ND	Tri-State Octal D-Type Latch	20-SOIC	208.00/1,000		
74ACT1284MTR	497-1032-1-ND	High Speed IEEE 1284 Transceiver	20-SOIC	.55	.44	.33
74ACT1284MTR	497-1032-2-ND	High Speed IEEE 1284 Transceiver	20-SOIC	176.00/1,000		
74ACT16244TTR	497-1035-1-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74ACT16244TTR	497-1035-2-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1044.00/2,000		
74ACT16245TTR	497-1036-1-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1.35	1.17	.90
74ACT16245TTR	497-1036-2-ND	Tri-State 16-Bit Bus Transceiver	48-TSSOP	1044.00/2,000		
74ACT16373TTR	497-1037-1-ND	Tri-State 16-Bit D-Type Latch	48-TSSOP	1.35	1.17	.90
74ACT16374TTR	497-1038-1-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1.35	1.17	.90
74ACT16374TTR	497-1038-2-ND	Tri-State 16-Bit D-Type Flip-Flop	48-TSSOP	1044.00/2,000		
74ACT16541TTR	497-1039-1-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74ACT16541TTR	497-1039-2-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1044.00/2,000		
74ALVCH16244TTR	497-1046-1-ND	LV CMOS 16-Bit Bus Buffer	48-TSSOP	1.86	1.55	1.31
74ALVCH16244TTR	497-1046-2-ND	LV CMOS 16-Bit Bus Buffer	48-TSSOP	1674.00/2,000		
74ALVCH16374TTR	497-1047-1-ND	LV CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1.86	1.55	1.31
74ALVCH16374TTR	497-1047-2-ND	LV CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1674.00/2,000		
74ALVCH32245LBR	497-3705-1-ND	Tri-State Low Voltage, CMOS 32-Bit Bus Transceiver	96-LFBGA	6.33	5.78	4.57
74ALVCH32245LBR	497-3705-2-ND	Tri-State Low Voltage, CMOS 32-Bit Bus Transceiver	96-LFBGA	7012.00/2,000		
74ALVCR162245TTR	497-2382-1-ND	3.6V, 16-Bit Transceiver	48-TSSOP	1.80	1.50	1.26
74ALVCR162245TTR	497-2382-2-ND	3.6V, 16-Bit Transceiver	48-TSSOP	1620.00/2,000		

STMicroelectronics

74HC/HCT/HCU SERIES
RoHS Compliant Parts Available

ST Microelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M74HC00B1R	497-1745-5-ND	Quad 2-Input NAND Gate	14-Dip	.48	.38	.29
M74HC00RM13TR	497-1746-1-ND	Quad 2-Input NAND Gate	14-SOIC	.49	.30	.23
M74HC00RM13TR	497-1746-2-ND	Quad 2-Input NAND Gate	14-SOIC	320.00/2,500		
M74HC02B1R	497-1747-5-ND	Quad 2-Input NOR Gate	14-Dip	.48	.38	.29
M74HC02RM13TR	497-1748-1-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.30	.23
M74HC02RM13TR	497-1748-2-ND	Quad 2-Input NOR Gate	14-SOIC	320.00/2,500		
M74HC03B1R	497-1749-5-ND	Quad 2-Input Open Drain NAND Gate	14-Dip	.48	.38	.29
M74HC03RM13TR	497-1750-1-ND	Quad 2-Input Open Drain NAND Gate	14-SOIC	.49	.30	.23
M74HC03RM13TR	497-1750-2-ND	Quad 2-Input Open Drain NAND Gate	14-SOIC	320.00/2,500		
M74HC04B1R	497-1751-5-ND	Hex Inverter	14-Dip	.48	.38	.29
M74HC04RM13TR	497-1752-1-ND	Hex Inverter	14-SOIC	.49	.30	.23
M74HC04RM13TR	497-1752-2-ND	Hex Inverter	14-SOIC	320.00/2,500		
M74HC05B1R	497-1753-5-ND	Hex Inverter, Open Drain	14-Dip	.55	.44	.33
M74HC05RM13TR	497-1754-1-ND	Hex Inverter, Open Drain	14-SOIC	.52	.40	.29
M74HC05RM13TR	497-1754-2-ND	Hex Inverter, Open Drain	14-SOIC	340.00/2,500		
M74HC08B1R	497-1755-5-ND	Quad 2-Input AND Gate	14-Dip	.48	.38	.29
M74HC08RM13TR	497-1756-1-ND	Quad 2-Input AND Gate	14-SOIC	.49	.30	.23
M74HC08RM13TR	497-1756-2-ND	Quad 2-Input AND Gate	14-SOIC	320.00/2,500		
M74HC10B1R	497-1759-5-ND	Triple 3-Input NAND Gate	14-Dip	.48	.35	.26
M74HC10RM13TR	497-1760-1-ND	Triple 3-Input NAND Gate	14-SOIC	.49	.30	.23
M74HC10RM13TR	497-1760-2-ND	Triple 3-Input NAND Gate	14-SOIC	320.00/2,500		
M74HC11B1R	497-1761-5-ND	Triple 3-Input AND Gate	14-Dip	.54	.44	.33
M74HC11RM13TR	497-1762-1-ND	Triple 3-Input AND Gate	14-SOIC	.49	.30	.23
M74HC11RM13TR	497-1762-2-ND	Triple 3-Input AND Gate	14-SOIC	320.00/2,500		
M74HC14B1R	497-1777-5-ND	Hex Schmitt Inverter	14-Dip	.48	.38	.29
M74HC14RM13TR	497-1778-1-ND	Hex Schmitt Inverter	14-SOIC	.49	.30	.23
M74HC14RM13TR	497-1778-2-ND	Hex Schmitt Inverter	14-SOIC	320.00/2,500		
M74HC20B1R	497-1795-5-ND	Dual 4-Input NAND Gate	14-Dip	.55	.44	.33
M74HC20RM13TR	497-1796-1-ND	Dual 4-Input NAND Gate	14-SOIC	.49	.30	.23
M74HC20RM13TR	497-1796-2-ND	Dual 4-Input NAND Gate	14-SOIC	320.00/2,500		

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STMicroelectronics 74HC/HCT/HCU SERIES *(Continued)* *RoHS Compliant Parts Available*

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M74HC32B1R	497-1819-5-ND	Quad 2-Input OR Gate	14-Dip	.48	.38	.29
M74HC32RM13TR	497-1820-1-ND	Quad 2-Input OR Gate	14-SOIC	.49	.30	.23
M74HC32RM13TR	497-1820-2-ND	Quad 2-Input OR Gate	14-SOIC	320.00/2,500		
M74HC42B1R	497-1858-5-ND	BCD-to-Decimal Decoder	16-Dip	.86	.69	.52
M74HC42RM13TR	497-1859-1-ND	BCD-to-Decimal Decoder	1 6-SOIC	.98	.85	.65
M74HC42RM13TR	497-1859-2-ND	BCD-to-Decimal Decoder	16-SOIC	865.00/2,500		
M74HC51B1R	497-1870-5-ND	Dual 2 Wide 2-In. AND/OR Invert Gate	14-Dip	.63	.51	.38
M74HC51RM13TR	497-1871-1-ND	Dual 2 Wide 2-In. AND/OR Invert Gate	14-SOIC	.55	.34	.26
M74HC51RM13TR	497-1871-2-ND	Dual 2 Wide 2-In. AND/OR Invert Gate	14-SOIC	362.50/2,500		
M74HC73RM13TR	497-1884-1-ND	Dual J-K F/F with Preset and Clear	14-SOIC	.49	.30	.23
M74HC73RM13TR	497-1884-2-ND	Dual J-K F/F with Preset and Clear	14-SOIC	320.00/2,500		
M74HC74B1R	497-1885-5-ND	Dual D-Type F/F with Preset and Clear	14-Dip	.48	.38	.29
M74HC74RM13TR	497-1886-1-ND	Dual D-Type F/F with Preset and Clear	14-SOIC	.55	.34	.26
M74HC74RM13TR	497-1886-2-ND	Dual D-Type F/F with Preset and Clear	14-SOIC	362.50/2,500		
M74HC85B1R	497-1887-5-ND	4-Bit Magnitude Comparator	16-Dip	.60	.44	.33
M74HC85RM13TR	497-1888-1-ND	4-Bit Magnitude Comparator	16-SOIC	.55	.40	.30
M74HC85RM13TR	497-1888-2-ND	4-Bit Magnitude Comparator	16-SOIC	412.50/2,500		
M74HC86B1R	497-1889-5-ND	Quad Exclusive OR Gate	14-Dip	.65	.47	.36
M74HC86M1R	497-1890-5-ND	Quad Exclusive OR Gate	14-SOIC	.90	.72	.54
M74HC123B1R	497-1763-5-ND	Dual Retriggerable Mono Multivibrator	16-Dip	.65	.47	.36
M74HC123RM13TR	497-1764-1-ND	Dual Retriggerable Mono Multivibrator	16-SOIC	.60	.44	.33
M74HC123RM13TR	497-1764-2-ND	Dual Retriggerable Mono Multivibrator	16-SOIC	450.00/2,500		
M74HC125B1R	497-1765-5-ND	Tri-State Quad Bus Buffer	14-Dip	.50	.40	.30
M74HC125RM13TR	497-1766-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.49	.30	.23
M74HC125RM13TR	497-1766-2-ND	Tri-State Quad Bus Buffer	14-SOIC	320.00/2,500		
M74HC132B1R	497-1767-5-ND	Quad 2-Input Schmitt NAND Gate	14-Dip	.55	.40	.30
M74HC132RM13TR	497-1768-1-ND	Quad 2-Input Schmitt NAND Gate	14-SOIC	.49	.30	.23
M74HC132RM13TR	497-1768-2-ND	Quad 2-Input Schmitt NAND Gate	14-SOIC	320.00/2,500		
M74HC133B1R	497-1769-5-ND	13-Input NAND Gate	16-Dip	.54	.44	.33
M74HC133RM13TR	497-1770-1-ND	13-Input NAND Gate	16-SOIC	.59	.47	.36
M74HC133RM13TR	497-1770-2-ND	13-Input NAND Gate	16-SOIC	462.50/2,500		
M74HC138B1R	497-1771-5-ND	3-to-8 Line Decoder, Inverting	16-Dip	.60	.44	.33
M74HC138RM13TR	497-1772-1-ND	3-to-8 Line Decoder, Inverting	16-SOIC	.48	.35	.26
M74HC138RM13TR	497-1772-2-ND	3-to-8 Line Decoder, Inverting	16-SOIC	357.50/2,500		
M74HC139B1R	497-1773-5-ND	Dual 2-to-4 Decoder/Demux	16-Dip	.59	.47	.36
M74HC139RM13TR	497-1774-1-ND	Dual 2-to-4 Decoder/Demux	16-SOIC	.48	.35	.26
M74HC139RM13TR	497-1774-2-ND	Dual 2-to-4 Decoder/Demux	16-SOIC	357.50/2,500		
M74HC148RM13TR	497-1776-1-ND	8-to-3 Line Priority Encoder	16-SOIC	.48	.35	.26
M74HC148RM13TR	497-1776-2-ND	8-to-3 Line Priority Encoder	16-SOIC	357.50/2,500		
M74HC151B1R	497-1779-5-ND	8-Channel Multiplexer	16-Dip	.54	.44	.33
M74HC151RM13TR	497-1780-1-ND	8-Channel Multiplexer	16-SOIC	.55	.40	.30
M74HC151RM13TR	497-1780-2-ND	8-Channel Multiplexer	16-SOIC	412.50/2,500		
M74HC153B1R	497-1781-5-ND	Dual 4-Channel Multiplexer	16-Dip	.60	.48	.36
M74HC153RM13TR	497-1782-1-ND	Dual 4-Channel Multiplexer	16-SOIC	.55	.44	.30
M74HC153RM13TR	497-1782-2-ND	Dual 4-Channel Multiplexer	16-SOIC	412.50/2,500		
M74HC155RM13TR	497-1784-1-ND	Dual 2-to-4 and 3-to-8 Line Decoder	16-SOIC	.55	.40	.30
M74HC155RM13TR	497-1784-2-ND	Dual 2-to-4 and 3-to-8 Line Decoder	16-SOIC	412.50/2,500		
M74HC157RM13TR	497-1786-1-ND	Quad 2-Channel Multiplexer	16-SOIC	.48	.35	.26
M74HC157RM13TR	497-1786-2-ND	Quad 2-Channel Multiplexer	16-SOIC	357.50/2,500		
M74HC161B1R	497-1787-5-ND	Sync. Presettable 4-Bit Counter	16-Dip	.65	.47	.36
M74HC161RM13TR	497-1788-1-ND	Sync. Presettable 4-Bit Counter	16-SOIC	.48	.35	.26
M74HC161RM13TR	497-1788-2-ND	Sync. Presettable 4-Bit Counter	16-SOIC	357.50/2,500		
M74HC164B1R	497-1789-5-ND	8-Bit SIPO Shift Register	14-Dip	.60	.44	.33
M74HC165B1R	497-1790-5-ND	8-Bit PISO Shift Register	16-Dip	.60	.44	.33
M74HC166RM13TR	497-1791-1-ND	8-Bit PISO Shift Register	16-SOIC	.48	.35	.26
M74HC166RM13TR	497-1791-2-ND	8-Bit PISO Shift Register	16-SOIC	357.50/2,500		
M74HC174B1R	497-1792-5-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.55	.40	.30
M74HC174TTR	497-4274-1-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	.60	.48	.36
M74HC174TTR	497-4274-2-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP	450.00/2,500		
M74HC175B1R	497-1793-5-ND	Quad D-Type Flip-Flop with Clear	16-Dip	.68	.54	.41
M74HC175RM13TR	497-1794-1-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	.48	.35	.26
M74HC175RM13TR	497-1794-2-ND	Quad D-Type Flip-Flop with Clear	16-SOIC	357.50/2,500		
M74HC221B1R	497-1797-5-ND	Dual Mono Multivibrator	16-Dip	.72	.58	.44
M74HC221RM13TR	497-1798-1-ND	Dual Mono Multivibrator	16-SOIC	.68	.54	.41
M74HC221RM13TR	497-1798-2-ND	Dual Mono Multivibrator	16-SOIC	535.00/2,500		
M74HC238B1R	497-1799-5-ND	3-to-8 Line Decoder	16-Dip	.77	.62	.46
M74HC238RM13TR	497-1800-1-ND	3-to-8 Line Decoder	16-SOIC	.48	.35	.26
M74HC238RM13TR	497-1800-2-ND	3-to-8 Line Decoder	16-SOIC	357.50/2,500		
M74HC240B1R	497-1801-5-ND	Tri-State Octal Bus Buffer, Inverted	20-Dip	.60	.44	.33
M74HC240RM13TR	497-1802-1-ND	Tri-State Octal Bus Buffer, Inverted	20-SOIC	.55	.44	.30
M74HC240RM13TR	497-1802-2-ND	Tri-State Octal Bus Buffer, Inverted	20-SOIC	176.00/1,000		
M74HC244B1R	497-1803-5-ND	Tri-State Octal Bus Buffer, Non-Inverted	20-Dip	.60	.44	.33
M74HC244RM13TR	497-1804-1-ND	Tri-State Octal Bus Buffer, Non-Inverted	20-SOIC	1.08	.87	.60
M74HC244RM13TR	497-1804-2-ND	Tri-State Octal Bus Buffer, Non-Inverted	20-SOIC	372.00/1,000		
M74HC245B1R	497-1805-5-ND	Tri-State Octal Bus Transceiver, Non-Inverted	20-Dip	.60	.44	.33
M74HC245RM13TR	497-1806-1-ND	Tri-State Octal Bus Transceiver, Non-Inverted	20-SOIC	.55	.44	.30
M74HC245RM13TR	497-1806-2-ND	Tri-State Octal Bus Transceiver, Non-Inverted	20-SOIC	176.00/1,000		
M74HC251B1R	497-1807-5-ND	Tri-State 8-Channel Mux	16-Dip	.55	.44	.30
M74HC251RM13TR	497-1808-1-ND	Tri-State 8-Channel Mux	16-SOIC	.55	.44	.30
M74HC251RM13TR	497-1808-2-ND	Tri-State 8-Channel Mux	16-SOIC	412.50/2,500		
M74HC253RM13TR	497-1809-1-ND	Tri-State Dual 4-Channel Mux	16-SOIC	.48	.35	.26
M74HC253RM13TR	497-1809-2-ND	Tri-State Dual 4-Channel Mux	16-SOIC	357.50/2,500		
M74HC257B1R	497-1810-5-ND	Tri-State Quad 2-Channel Mux	16-Dip	.68	.54	.41
M74HC257RM13TR	497-1811-1-ND	Tri-State Quad 2-Channel Mux	16-SOIC	.48	.35	.26
M74HC257RM13TR	497-1811-2-ND	Tri-State Quad 2-Channel Mux	16-SOIC	357.50/2,500		
M74HC259B1R	497-1812-5-ND	8-Bit Addressable Latch	16-Dip	1.05	.91	.70
M74HC273B1R	497-1813-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.72	.58	.44
M74HC273RM13TR	497-1814-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.55	.40	.30
M74HC273RM13TR	497-1814-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	176.00/1,000		
M74HC280B1R	497-1815-5-ND	9-Bit Parity Generator	14-Dip	1.05	.91	.84
M74HC280RM13TR	497-1816-1-ND	9-Bit Parity Generator	14-SOIC	.48	.35	.26
M74HC280RM13TR	497-1816-2-ND	9-Bit Parity Generator	14-SOIC	357.50/2,500		
M74HC299B1R	497-1817-5-ND	8-Bit PIPO Shift Register with Async. Clear	20-Dip	.68	.54	.41
M74HC299RM13TR	497-1818-1-ND	8-Bit PIPO Shift Register with Async. Clear	20-SOIC	.90	.72	.54
M74HC299RM13TR	497-1818-2-ND	8-Bit PIPO Shift Register with Async. Clear	20-SOIC	310.00/1,000		
M74HC365B1R	497-1821-5-ND	Tri-State Hex Bus Buffer	16-Dip	.63	.51	.38
M74HC365RM13TR	497-1822-1-ND	Tri-State Hex Bus Buffer	16-SOIC	.52	.40	.29
M74HC365RM13TR	497-1822-2-ND	Tri-State Hex Bus Buffer	16-SOIC	340.00/2,500		
M74HC367M1R	497-1823-5-ND	Tri-State Hex Bus Buffer	16-SOIC	.99	.80	.60
M74HC367TTR	497-1824-1-ND	Tri-State Hex Bus Buffer	16-TSSOP	.75	.46	.35
M74HC367TTR	497-1824-2-ND	Tri-State Hex Bus Buffer	16-TSSOP	490.00/2,500		
M74HC368RM13TR	497-1826-1-ND	Tri-State Hex Bus Buffer	16-SOIC	.52	.40	.29
M74HC368RM13TR	497-1826-2-ND	Tri-State Hex Bus Buffer	16-SOIC	340.00/2,500		
M74HC373B1R	497-1827-5-ND	Tri-State Octal D-Type Latch	20-Dip	.68	.54	.41
M74HC373RM13TR	497-1828-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.55	.40	.30
M74HC373RM13TR	497-1828-2-ND	Tri-State Octal D-Type Latch	20-SOIC	176.00/1,000		
M74HC374B1R	497-1829-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.60	.44	.33
M74HC374RM13TR	497-1830-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.55	.44	.30
M74HC374RM13TR	497-1830-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	176.00/1,000		
M74HC377RM13TR	497-1832-1-ND	Octal D-Type Flip-Flop	20-SOIC	.60	.48	.33
M74HC377RM13TR	497-1832-2-ND	Octal D-Type Flip-Flop	20-SOIC	192.00/1,000		
M74HC393B1R	497-1833-5-ND	Dual Binary Counter	14-Dip	.72	.58	.44
M74HC393RM13TR	497-1834-1-ND	Dual Binary Counter	14-SOIC	.48	.35	.26
M74HC393RM13TR	497-1834-2-ND	Dual Binary Counter	14-SOIC	357.50/2,500		
M74HC541B1R	497-1873-5-ND	Tri-State Octal Bus Buffer	20-Dip	.72	.58	.44
M74HC541RM13TR	497-1874-1-ND	Tri-State Octal Bus Buffer	20-SOIC	1.31	1.14	.88
M74HC541RM13TR	497-1874-2-ND	Tri-State Octal Bus Buffer	20-SOIC	508.00/1,000		
M74HC573B1R	497-1875-5-ND	Tri-State Octal D-Type Latch	20-Dip	.68	.54	.41
M74HC573RM13TR	497-1876-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.55	.40	.30
M74HC573RM13TR	497-1876-2-ND	Tri-State Octal D-Type Latch	20-SOIC	176.00/1,000		
M74HC574B1R	497-1877-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.60	.44	.33
M74HC574RM13TR	497-1878-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.44	.33
M74HC574RM13TR	497-1878-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	192.00/1,000		
M74HC590B1R	497-1879-5-ND	Tri-State 8-Binary Counter Register	16-Dip	.63	.51	.38
M74HC595B1R	497-2986-5-ND	Tri-State 8-Bit Shift Register	16-Dip	.68	.54	.41
M74HC595RM13TR	497-1880-1-ND	Tri-State 8-Bit Shift Register	16-SOIC	.55	.44	.30
M74HC595RM13TR	497-1880-2-ND	Tri-State 8-Bit Shift Register	16-SOIC	412.50/2,500		
M74HC597RM13TR	497-1881-1-ND	8-Bit Latch/Shift Register	16-SOIC	.55	.40	.30
M74HC597RM13TR	497-1881-2-ND	8-Bit Latch/Shift Register	16-SOIC	412.50/2,500		
M74HC688RM13TR	497-1882-1-ND	8-Bit Equality Comparator	20-SOIC	.75	.54	.41
M74HC688RM13TR	497-1882-2-ND	8-Bit Equality Comparator	20-SOIC	240.00/1,000		
M74HC688TTR	497-4275-1-ND	8-Bit Equality Comparator	20-TSSOP	.72	.58	.44
M74HC688TTR	497-4275-2-ND	8-Bit Equality Comparator	20-TSSOP	570.00/2,500		
M74HC4017B1R	497-1835-5-ND	Decade Counter/Divider	16-Dip	.72	.58	.44
M74HC4017RM13TR	497-1836-1-ND	Decade Counter/Divider	16-SOIC	.65	.47	.36
M74HC4017RM13TR	497-1836-2-ND	Decade Counter/Divider	16-SOIC	487.50/2,500		
M74HC4020RM13TR	497-1837-1-ND	14-Stage Binary Counter	16-SOIC	.50	.40	.30
M74HC4020RM13TR	497-1837-2-ND	14-Stage Binary Counter	16-SOIC	375.00/2,500		
M74HC4024B1R	497-1838-5-ND	7-Stage Binary Counter	14-Dip	.68	.54	.41
M74HC4024RM13TR	497-1839-1-ND	7-Stage Binary Counter	14-SOIC	.68	.54	.41
M74HC4024RM13TR	497-1839-2-ND	7-Stage Binary Counter	14-SOIC	535.00/2,500		
M74HC4040B1R	497-1840-5-ND	12-Stage Binary Counter	16-Dip	.68	.54	.41
M74HC4049B1R	497-1841-5-ND	Hex Buffer/Converter	16-Dip	.86	.69	.52
M74HC4049RM13TR	497-1842-1-ND	Hex Buffer/Converter	16-SOIC	.49	.30	.23
M74HC4049RM13TR	497-1842-2-ND	Hex Buffer/Converter	16-SOIC	320.00/2,500		
M74HC4050B1R	497-1843-5-ND	Hex Buffer/Converter	16-Dip	1.58	1.37	1.05
M74HC4050RM13TR	497-1844-1-ND	Hex Buffer/Converter	16-SOIC	.60	.44	.33
M74HC4050RM13TR	497-1844-2-ND	Hex Buffer/Converter	16-SOIC	450.00/2,500		
M74HC4051B1R	497-1845-5-ND	Single 8-Channel Analog Mux/Demux	16-Dip	.77	.62	.46
M74HC4051RM13TR	497-1846-1-ND	Single 8-Channel Analog Mux/Demux	16-SOIC	.68	.54	.41
M74HC4051RM13TR	497-1846-2-ND	Single 8-Channel Analog Mux/Demux	16-SOIC	535.00/2,500		
M74HC4052B1R	497-1847-5-ND	Dual 4-Channel Analog Mux/Demux	16-Dip	.63	.51	.38
M74HC4052RM13TR	497-1848-1-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	.48	.35	.26
M74HC4052RM13TR	497-1848-2-ND	Dual 4-Channel Analog Mux/Demux	16-SOIC	357.50/2,500		
M74HC4053B1R	497-1849-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.55	.40	.30
M74HC4053RM13TR	497-1850-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.60	.44	.33
M74HC4053RM13TR	497-1850-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	450.00/2,500		
M74HC4060RM13TR	497-1852-1-ND	14-Stage Binary Counter/Oscillator	16-SOIC	.55	.40	.30
M74HC4060RM13TR	497-1852-2-ND	14-Stage Binary Counter/Oscillator	16-SOIC	412.50/2,500		
M74HC4066B1R	497-1853-5-ND	Quad Bilateral Switch	14-Dip	.48	.38	.29
M74HC4066RM13TR	497-1854-1-ND	Quad Bilateral Switch	14-SOIC	.48	.38	.29
M74HC4066RM13TR	497-1854-2-ND	Quad Bilateral Switch	14-SOIC	357.50/2,500		
M74HC4075B1R	497-1855-5-ND	Triple 3-Input OR Gate	14-Dip	1.14	1.00	.77
M74HC4075RM13TR	497-1856-1-ND	Triple 3-Input OR Gate	14-SOIC	.68	.54	.41
M74HC4075RM13TR	497-1856-2-ND	Triple 3-Input OR Gate	14-SOIC	535.00/2,500		
M74HC4094B1R	497-2985-5-ND	Tri-St. 8-Bit SIPO Shift Latch Register	16-Dip	.68	.54	.41
M74HC4094RM13TR	497-1857-1-ND	Tri-St. 8-Bit SIPO Shift Latch Register	16-SOIC	.48	.35	.26
M74HC4094RM13TR	497-1857-2-ND	Tri-St. 8-Bit SIPO Shift Latch Register	16-SOIC	357.50/2,500		
M74HC4316B1R	497-1860-5-ND	Quad Bilateral Switch	16-Dip	.70	.56	.42
M74HC4316RM13TR	497-1861-1-ND	Quad Bilateral Switch	16-SOIC	.68	.54	.41
M74HC4316RM13TR	497-1861-2-ND	Quad Bilateral Switch	16-SOIC	535.00/2,500		
M74HC4520B1R	497-1862-5-ND	Dual 4-Bit Binary Counter	16-Dip	.72	.58	.44
M74HC4520RM13TR	497-1863-1-ND	Dual 4-Bit Binary Counter	16-SOIC	.68	.54	.41
M74HC4520RM13TR	497-1863-2-ND	Dual 4-Bit Binary Counter	16-SOIC	535.00/2,500		
M74HC4538B1R	497-1864-5-ND	Dual Retriggerable Mono Multivibrator	16-Dip	.72	.58	.44
M74HC4538RM13TR	497-1865-1-ND	Dual Retriggerable Mono Multivibrator	16-SOIC	.60	.44	.33
M74HC4538RM13TR	497-1865-2-ND	Dual Retriggerable Mono Multivibrator	16-SOIC	450.00/2,500		
M74HC4543B1R	497-1866-5-ND	BCD-to-7 Segment Latch/Decoder/ LCD Driver	16-Dip	.65	.47	.36
M74HC4543RM13TR	497-1867-1-ND	BCD-to-7 Segment Latch/Decoder/ LCD Driver	16-SOIC	1.31	1.14	.88
M74HC4543RM13TR	497-1867-2-ND	BCD-to-7 Segment Latch/Decoder/ LCD Driver	16-SOIC	1165.00/2,500		
M74HC4851B1R	497-1868-5-ND	Single 8-Channel Analog Mux/Demux	16-Dip	1.65	1.38	1.16
M74HCT00B1R	497-1891-5-ND	Quad 2-Input NAND Gate	14-Dip	.48	.35	.26
M74HCT02RM13TR	497-1892-1-ND	Quad 2-Input NOR Gate	14-SOIC	.49	.30	.23
M74HCT02RM13TR	497-1892-2-ND	Quad 2-Input NOR Gate	14-SOIC	320.00/2,500		
M74HCT04B1R	497-1893-5-ND	Hex Inverter	14-Dip	.60	.48	.36
M74HCT04RM13TR	497-1894-1-ND	Hex Inverter	14-SOIC	.52	.40	.29
M74HCT04RM13TR	497-1894-2-ND	Hex Inverter	14-SOIC	340.00/2,500		
M74HCT08B1R	497-1895-5-ND	Quad 2-Input AND Gate	14-Dip	.50	.40	.30

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M74HCT08RM13TR	497-1896-2-ND	Quad 2-Input AND Gate	14-SOIC	320.00/2,500		
M74HCT14B1R	497-1901-5-ND	Hex Schmitt Inverter	14-Dip	.50	.40	.30
M74HCT14RM13TR	497-1902-1-ND	Hex Schmitt Inverter	14-SOIC	.49	.30	.23
M74HCT14RM13TR	497-1902-2-ND	Hex Schmitt Inverter	14-SOIC	320.00/2,500		
M74HCT14TTR	497-4276-1-ND	Hex Schmitt Inverter	14-TSSOP	.65	.52	.39
M74HCT14TTR	497-4276-2-ND	Hex Schmitt Inverter	14-TSSOP	487.50/2,500		
M74HCT32B1R	497-1909-5-ND	Quad 2-Input OR Gate	14-Dip	.65	.52	.39
M74HCT32RM13TR	497-1910-1-ND	Quad 2-Input OR Gate	14-SOIC	.49	.30	.23
M74HCT32RM13TR	497-1910-2-ND	Quad 2-Input OR Gate	14-SOIC	320.00/2,500		
M74HCT74B1R	497-1922-5-ND	Dual D-Type F/F with Preset and Clear	14-Dip	.50	.40	.30
M74HCT74RM13TR	497-1923-1-ND	Dual D-Type F/F with Preset and Clear	14-SOIC	.49	.30	.23
M74HCT74RM13TR	497-1923-2-ND	Dual D-Type F/F with Preset and Clear	14-SOIC	320.00/2,500		
M74HCT125B1R	497-1897-5-ND	Tri-State Quad Bus Buffer	14-Dip	.55	.44	.33
M74HCT125RM13TR	497-1898-1-ND	Tri-State Quad Bus Buffer	14-SOIC	.59	.36	.27
M74HCT125RM13TR	497-1898-2-ND	Tri-State Quad Bus Buffer	14-SOIC	382.50/2,500		
M74HCT138RM13TR	497-1900-1-ND	3-to-8 Line Decoder	16-SOIC	.48	.35	.26
M74HCT138RM13TR	497-1900-2-ND	3-to-8 Line Decoder	16-SOIC	357.50/2,500		
M74HCT174TTR	497-4277-1-ND	Hex D-Type Flip-Flop	16-TSSOP	.70	.56	.42
M74HCT174TTR	497-4277-2-ND	Hex D-Type Flip-Flop	16-TSSOP	525.00/2,500		
M74HCT244RM13TR	497-1904-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.55	.44	.30
M74HCT244RM13TR	497-1904-2-ND	Tri-State Octal Bus Buffer	20-SOIC	176.00/1,000		
M74HCT245B1R	497-1905-5-ND	Tri-State Octal Bus Transceiver	20-Dip	.77	.62	.46
M74HCT245RM13TR	497-1906-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.75	.54	.41
M74HCT245RM13TR	497-1906-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	240.00/1,000		
M74HCT273B1R	497-1907-5-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.60	.44	.33
M74HCT273RM13TR	497-1908-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.55	.44	.30
M74HCT273RM13TR	497-1908-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	176.00/1,000		
M74HCT367RM13TR	497-4278-1-ND	Tri-State Hex Bus Buffer	16-SOP	.50	.40	.30
M74HCT367RM13TR	497-4278-2-ND	Tri-State Hex Bus Buffer	16-SOP	375.00/2,500		
M74HCT373TTR	497-4279-1-ND	Tri-State Octal D-Type Latch	20-TSSOP	.70	.56	.42
M74HCT373TTR	497-4279-2-ND	Tri-State Octal D-Type Latch	20-TSSOP	525.00/2,500		
M74HCT374B1R	497-1911-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.63	.51	.38
M74HCT374RM13TR	497-1912-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.60	.44	.33
M74HCT374RM13TR	497-1912-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	192.00/1,000		
M74HCT540B1R	497-1914-5-ND	Tri-State Octal Bus Buffer	20-Dip	1.31	1.14	.88
M74HCT540RM13TR	497-1915-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.58	.46	.35
M74HCT540RM13TR	497-1915-2-ND	Tri-State Octal Bus Buffer	20-SOIC	184.00/1,000		
M74HCT541B1R	497-1916-5-ND	Tri-State Octal Bus Buffer	20-Dip	.60	.44	.33
M74HCT573RM13TR	497-1918-1-ND	Tri-State Octal D-Type Latch	20-SOIC	.65	.47	.36
M74HCT573RM13TR	497-1918-2-ND	Tri-State Octal D-Type Latch	20-SOIC	208.00/1,000		
M74HCT574B1R	497-1919-5-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.72	.58	.44
M74HCT574RM13TR	497-1920-1-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.65	.52	.36
M74HCT574RM13TR	497-1920-2-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	208.00/1,000		
M74HCT640RM13TR	497-1921-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.75	.54	.41
M74HCT640RM13TR	497-1921-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	240.00/1,000		
M74HCU04B1R	497-1924-5-ND	Hex Inverter	14-Dip	.55	.44	.33
M74HCU04RM13TR	497-1925-1-ND	Hex Inverter	14-SOIC	.49	.30	.23
M74HCU04RM13TR	497-1925-2-ND	Hex Inverter	14-SOIC	320.00/2,500		

STMicroelectronics 74L SERIES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
74LCX00MTR	497-1048-1-ND	LV CMOS Quad 2-Input NAND Gate	14-SOIC	.48	.38	.29
74LCX04MTR	497-1049-1-ND	LV CMOS Hex Inverter	14-SOIC	.48	.38	.29
74LCX08MTR	497-1050-1-ND	LV CMOS Quad 2-Input AND Gate	14-SOIC	.48	.38	.29
74LCX74MTR	497-1068-1-ND	LV CMOS Dual D-Type Flip-Flop	14-SOIC	.48	.38	.29
74LCX74MTR	497-1068-2-ND	LV CMOS Dual D-Type Flip-Flop	14-SOIC	357.50/2,500		
74LCX125MTR	497-1051-1-ND	Low Volt. CMOS Quad Bus Buffer	14-SOIC	.48	.38	.29
74LCX125MTR	497-1051-2-ND	Low Volt. CMOS Quad Bus Buffer	14-SOIC	357.50/2,500		
74LCX157MTR	497-1052-1-ND	LV CMOS Quad 2-Channel Mux	16-SOIC	.55	.40	.30
74LCX157MTR	497-1052-2-ND	LV CMOS Quad 2-Channel Mux	16-SOIC	412.50/2,500		
74LCX244TTR	497-2917-1-ND	Low Volt. CMOS Octal Bus Buffer	20-TSSOP	.70	.56	.38
74LCX244TTR	497-2917-2-ND	Low Volt. CMOS Octal Bus Buffer	20-TSSOP	525.00/2,500		
74LCX245MTR	497-1062-1-ND	LV CMOS Octal Bus Transceiver	20-SOIC	.75	.60	.41
74LCX245MTR	497-1062-2-ND	LV CMOS Octal Bus Transceiver	20-SOIC	240.00/1,000		
74LCX373MTR	497-1064-1-ND	Octal D-Type Latch	20-SOIC	.75	.60	.41
74LCX373MTR	497-1064-2-ND	Octal D-Type Latch	20-SOIC	240.00/1,000		
74LCX374MTR	497-1065-1-ND	Octal D-Type Flip-Flop	20-SOIC	.70	.56	.38
74LCX541MTR	497-1066-1-ND	Low Volt. CMOS Octal Bus Buffer	20-SOIC	.70	.56	.38
74LCX541MTR	497-1066-2-ND	Low Volt. CMOS Octal Bus Buffer	20-SOIC	224.00/1,000		
74LCX541TTR	497-2918-1-ND	Low Volt. CMOS Octal Bus Buffer	20-TSSOP	.70	.56	.38
74LCX541TTR	497-2918-2-ND	Low Volt. CMOS Octal Bus Buffer	20-TSSOP	525.00/2,500		
74LCX573MTR	497-1067-1-ND	Octal D-Type Latch	20-SOIC	.70	.56	.38
74LCX573MTR	497-1067-2-ND	Octal D-Type Latch	20-SOIC	224.00/1,000		
74LCX16240TTR	497-1054-1-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1.39	1.21	.93
74LCX16240TTR	497-1054-2-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1074.00/2,000		
74LCX16244TTR	497-1055-1-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74LCX16244TTR	497-1055-2-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1044.00/2,000		
74LCX16245TTR	497-1056-1-ND	LV CMOS 16-Bit Bus Transceiver	48-TSSOP	1.35	1.17	.90
74LCX16245TTR	497-1056-2-ND	LV CMOS 16-Bit Bus Transceiver	48-TSSOP	1044.00/2,000		
74LCX16373TTR	497-1058-1-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	1.35	1.17	.90
74LCX16373TTR	497-1058-2-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	1044.00/2,000		
74LCX16374TTR	497-1059-1-ND	Low Volt. CMOS 16-Bit D-Type F/F	48-TSSOP	1.35	1.17	.90
74LCX16374TTR	497-1059-2-ND	Low Volt. CMOS 16-Bit D-Type F/F	48-TSSOP	1044.00/2,000		
74LCX16541TTR	497-1060-1-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74LCX16541TTR	497-1060-2-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1044.00/2,000		
74LCX162244TTR	497-1053-1-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74LCX162244TTR	497-1053-2-ND	Low Volt. CMOS 16-Bit Bus Buffer	48-TSSOP	1044.00/2,000		
74LCXH16245TTR	497-1070-1-ND	Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1.46	1.27	.98
74LCXH16245TTR	497-1070-2-ND	Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1132.00/2,000		
74LCXHR162245TTR	497-1071-1-ND	Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1.46	1.27	.98
74LCXHR162245TTR	497-1071-2-ND	Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1132.00/2,000		
74LVC08AMTR	497-1073-1-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-SOIC	.49	.30	.23
74LVC08AMTR	497-1073-2-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-SOIC	320.00/2,500		
74LVC14AMTR	497-1074-1-ND	Low Voltage CMOS Hex Inverter	14-SOIC	.49	.30	.23
74LVC14AMTR	497-1074-2-ND	Low Voltage CMOS Hex Inverter	14-SOIC	320.00/2,500		
74LVC86AMTR	497-1078-1-ND	Low Voltage CMOS Quad Exclusive OR Gate	14-SOIC	.49	.30	.23
74LVC86AMTR	497-1078-2-ND	Low Voltage CMOS Quad Exclusive OR Gate	14-SOIC	320.00/2,500		
74LVC244ATTR	497-2919-1-ND	Tri-State Low Voltage CMOS Quad Bus Buffer	20-TSSOP	.75	.54	.41
74LVC244ATTR	497-2919-2-ND	Tri-State Low Voltage CMOS Quad Bus Buffer	20-TSSOP	562.50/2,500		
74LVC373AMTR	497-1076-1-ND	Octal D-Type Latch	20-SOIC	.65	.47	.36
74LVC373AMTR	497-1076-2-ND	Octal D-Type Latch	20-SOIC	208.00/1,000		
74LVC573AMTR	497-1077-1-ND	Octal D-Type Latch	20-SOIC	.65	.47	.36
74LVC161284TTR	497-1075-1-ND	Low Voltage High Speed IEEE 1284 Transceiver	48-TSSOP	2.97	2.48	2.08
74LVC161284TTR	497-1075-2-ND	Low Voltage High Speed IEEE 1284 Transceiver	48-TSSOP	2674.00/2,000		
74LVCZ161284ATTR	497-1079-1-ND	Low Voltage High Speed IEEE 1284 Transceiver	48-TSSOP	3.48	3.04	2.26
74LVCZ161284ATTR	497-1079-2-ND	Low Voltage High Speed IEEE 1284 Transceiver	48-TSSOP	3432.00/2,000		
74LVTH16244TTR	497-4142-1-ND	Low Voltage BiCMOS 16-Bit Bus Buffer	48-TSSOP	1.89	1.58	1.33
74LVTH16244TTR	497-4142-2-ND	Low Voltage BiCMOS 16-Bit Bus Buffer	48-TSSOP	1702.00/2,000		
74LVX00MTR	497-1080-1-ND	Low Voltage CMOS Quad 2-Input NAND Gate	14-SOIC	.49	.30	.23
74LVX00MTR	497-1080-2-ND	Low Voltage CMOS Quad 2-Input NAND Gate	14-SOIC	320.00/2,500		
74LVX08MTR	497-1081-1-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-SOIC	.49	.30	.23
74LVX08MTR	497-1081-2-ND	Low Voltage CMOS Quad 2-Input AND Gate	14-SOIC	320.00/2,500		
74LVX14MTR	497-1085-1-ND	Low Voltage CMOS Hex Schmitt Inverter	14-SOIC	.62	.38	.29
74LVX14MTR	497-1085-2-ND	Low Voltage CMOS Hex Schmitt Inverter	14-SOIC	405.00/2,500		
74LVX126MTR	497-1083-1-ND	Low Voltage CMOS Quad Bus Buffer	14-SOIC	.49	.30	.23
74LVX126MTR	497-1083-2-ND	Low Voltage CMOS Quad Bus Buffer	14-SOIC	320.00/2,500		
74LVX157MTR	497-4143-1-ND	Low Voltage Quad 2-Channel Mux	16-SOP	.68	.54	.41
74LVX157MTR	497-4143-2-ND	Low Voltage Quad 2-Channel Mux	16-SOP	535.00/2,500		
74LVX244MTR	497-1087-1-ND	Low Voltage CMOS Octal Bus Buffer	20-SOIC	.65	.47	.36
74LVX244MTR	497-1087-2-ND	Low Voltage CMOS Octal Bus Buffer	20-SOIC	208.00/1,000		
74LVX244TTR	497-2920-1-ND	Low Volt. CMOS Octal Bus Buffer	20-TSSOP	.65	.47	.36
74LVX244TTR	497-2920-2-ND	Low Volt. CMOS Octal Bus Buffer	20-TSSOP	487.50/2,500		
74LVX245MTR	497-1088-1-ND	Low Voltage CMOS Octal Bus Transceiver	20-SOIC	.75	.54	.41
74LVX245MTR	497-1088-2-ND	Low Voltage CMOS Octal Bus Transceiver	20-SOIC	240.00/1,000		
74LVX374MTR	497-1090-1-ND	Low Voltage CMOS Octal D-Type F/F	20-SOIC	.70	.51	.38
74LVX374MTR	497-1090-2-ND	Low Voltage CMOS Octal D-Type F/F	20-SOIC	224.00/1,000		
74LVX3245MTR	497-1089-1-ND	Octal Dual Supply Bus Transceiver	24-SOIC	1.73	1.50	1.15
74LVX3245MTR	497-1089-2-ND	Octal Dual Supply Bus Transceiver	24-SOIC	667.00/1,000		
74LVX4245MTR	497-1091-1-ND	Octal Dual Supply Bus Transceiver	24-SOIC	1.54	1.34	1.03
74LVX4245MTR	497-1091-2-ND	Octal Dual Supply Bus Transceiver	24-SOIC	595.00/1,000		
74LVX16373TTR	497-1086-1-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	1.31	1.14	.88
74LVX16373TTR	497-1086-2-ND	LV CMOS 16-Bit D-Type Latch	48-TSSOP	1016.00/2,000		
74LVXC3245MTR	497-1092-1-ND	Octal Dual Supply Bus Transceiver	24-SOIC	1.50	1.30	1.00
74LVXC3245MTR	497-1092-2-ND	Octal Dual Supply Bus Transceiver	24-SOIC	580.00/1,000		
74LVXU04MTR	497-1093-1-ND	Low Voltage CMOS Hex Inverter	14-SOIC	.39	.29	.21
74LVXU04MTR	497-1093-2-ND	Low Voltage CMOS Hex Inverter	14-SOIC	375.00/2,500		
74LX1G04CTR	497-4027-1-ND	Low Voltage CMOS Single Inverter	SOT-323-5L	.46	.35	.26
74LX1G04CTR	497-4027-2-ND	Low Voltage CMOS Single Inverter	SOT-323-5L	357.00/3,000		
74LX1G08CTR	497-4028-1-ND	Low Voltage CMOS Single 2-Input AND Gate	SOT-323-5L	.46	.35	.26
74LX1G08CTR	497-4028-2-ND	Low Voltage CMOS Single 2-Input AND Gate	SOT-323-5L	357.00/3,000		
74LX1G08STR	497-1252-1-ND	Low Voltage CMOS Single 2-Input AND Gate	SOT-23-5L	.47	.35	.25
74LX1G08STR	497-1252-2-ND	Low Voltage CMOS Single 2-Input AND Gate	SOT-23-5L	297.00/3,000		
74LX1G14CTR	497-4030-1-ND	Low Voltage CMOS Single Schmitt Inverter	SOT-323-5L	.46	.35	.26
74LX1G14CTR	497-4030-2-ND	Low Voltage CMOS Single Schmitt Inverter	SOT-323-5L	357.00/3,000		
74LX1G32CTR	497-4545-1-ND	Low Voltage CMOS Single 2-Input OR Gate	SOT-323-5L	.46	.35	.26
74LX1G32CTR	497-4545-2-ND	Low Voltage CMOS Single 2-Input OR Gate	SOT-323-5L	357.00/3,000		
74LX1G70CTR	497-4519-1-ND	Single Buffer	SOT-323-5L	.45	.36	.27
74LX1G70CTR	497-4519-2-ND	Single Buffer	SOT-323-5L	405.00/3,000		
74LX1G126CTR	497-4029-1-ND	Tri-State Single Bus Buffer	SOT-323-5L	.46	.35	.26
74LX1G126CTR	497-4029-2-ND	Tri-State Single Bus Buffer	SOT-323-5L	357.00/3,000		
74LX1GU04CTR	497-4638-1-ND	Low Voltage CMOS Single Inverter ***NEW!***	SOT-323-5L	.46	.35	.26
74LX1GU04CTR	497-4638-2-ND	Low Voltage CMOS Single Inverter ***NEW!***	SOT-323-5L	357.00/3,000		

STMicroelectronics 74V SERIES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
74V1G00CTR	497-4031-1-ND	Single 2-Input NAND Gate	SOT-323-5L	.46	.35	.26
74V1G00CTR	497-4031-2-ND	Single 2-Input NAND Gate	SOT-323-5L	357.00/3,000		
74V1G04CTR	497-4032-1-ND	Single Inverter	SOT-323-5L	.44	.34	.25
74V1G04CTR	497-4032-2-ND	Single Inverter	SOT-323-5L	342.00/3,000		
74V1G04STR	497-1264-1-ND	Single Inverter	SOT-23-5L	.47	.35	.25
74V1G04STR	497-1264-2-ND	Single Inverter	SOT-23-5L	297.00/3,000		
74V1G08CTR	497-4520-1-ND	Single 2-Input AND Gate	SOT-323-5L	.70	.56	.42
74V1G08CTR	497-4520-2-ND	Single 2-Input AND Gate	SOT-323-5L	630.00/3,000		
74V1G08STR	497-1267-1-ND	Single 2-Input AND Gate	SOT-23-5L	.46	.35	.21
74V1G08STR	497-1267-2-ND	Single 2-Input AND Gate	SOT-23-5L	357.00/3,000		

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STMicroelectronics 74V SERIES *(Continued)*
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
74V1G14CTR	497-4521-1-ND	Single Schmitt Inverter	SOT-323-5L	.45	.36	.27
74V1G14CTR	497-4521-2-ND	Single Schmitt Inverter	SOT-323-5L	405.00/3,000		
74V1G14STR	497-1270-1-ND	Single Schmitt Inverter	SOT-23-5L	.81	.65	.49
74V1G14STR	497-1270-2-ND	Single Schmitt Inverter	SOT-23-5L	771.00/3,000		
74V1G32CTR	497-4522-1-ND	Single 2-Input OR Gate	SOT-323-5L	.65	.52	.39
74V1G32CTR	497-4522-2-ND	Single 2-Input OR Gate	SOT-323-5L	585.00/3,000		
74V1G32STR	497-1271-1-ND	Single 2-Input OR Gate	SOT-23-5L	.39	.30	.18
74V1G32STR	497-1271-2-ND	Single 2-Input OR Gate	SOT-23-5L	306.00/3,000		
74V1G66CTR	497-4035-1-ND	Single Bilateral Switch	SOT-323-5L	.46	.35	.26
74V1G66CTR	497-4035-2-ND	Single Bilateral Switch	SOT-323-5L	357.00/3,000		
74V1G66STR	497-1273-1-ND	Single Bilateral Switch	SOT-23-5L	.49	.30	.23
74V1G66STR	497-1273-2-ND	Single Bilateral Switch	SOT-23-5L	384.00/3,000		
74V1G70STR	497-1274-1-ND	Single Buffer	SOT-23-5L	.49	.30	.23
74V1G70STR	497-1274-2-ND	Single Buffer	SOT-23-5L	384.00/3,000		
74V1G125CTR	497-4033-1-ND	Tri-State Single Bus Buffer	SOT-323-5L	.4 6	.35	.46
74V1G125CTR	497-4033-2-ND	Tri-State Single Bus Buffer	SOT-323-5L	357.00/3,000		
74V1G125STR	497-1268-1-ND	Tri-State Single Bus Buffer	SOT-23-5L	.46	.35	.21
74V1G125STR	497-1268-2-ND	Tri-State Single Bus Buffer	SOT-23-5L	357.00/3,000		
74V1G384CTR	497-4034-1-ND	Single High Speed Bus Switch	SOT-323-5L	.46	.35	.26
74V1G384CTR	497-4034-2-ND	Single High Speed Bus Switch	SOT-323-5L	357.00/3,000		
74V1G384STR	497-1272-1-ND	Single High Speed Bus Switch	SOT-23-5L	.49	.30	.23
74V1G384STR	497-1272-2-ND	Single High Speed Bus Switch	SOT-23-5L	384.00/3,000		
74V1T04CTR	497-4144-1-ND	Single Inverter	SOT-323-5L	.39	.30	.22
74V1T04CTR	497-4144-2-ND	Single Inverter	SOT-323-5L	306.00/3,000		
74V1T04STR	497-1283-1-ND	Single Inverter	SOT-23-5L	.70	.56	.42
74V1T04STR	497-1283-2-ND	Single Inverter	SOT-23-5L	630.00/3,000		
74V1T08CTR	497-4036-1-ND	Single 2-Input AND Gate	SOT-323-5L	.46	.35	.26
74V1T08CTR	497-4036-2-ND	Single 2-Input AND Gate	SOT-323-5L	357.00/3,000		
74V1T14CTR	497-4038-1-ND	Single Schmitt Inverter	SOT-323-5L	.46	.35	.26
74V1T14CTR	497-4038-2-ND	Single Schmitt Inverter	SOT-323-5L	357.00/3,000		
74V1T14STR	497-1289-1-ND	Single Schmitt Inverter	SOT-23-5L	.39	.30	.18
74V1T14STR	497-1289-2-ND	Single Schmitt Inverter	SOT-23-5L	306.00/3,000		
74V1T66CTR	497-4039-1-ND	Single Bilateral Switch	SOT-323-5L	.46	.35	.26
74V1T66CTR	497-4039-2-ND	Single Bilateral Switch	SOT-323-5L	357.00/3,000		
74V1T66STR	497-1292-1-ND	Single Bilateral Switch	SOT-23-5L	.49	.30	.23
74V1T66STR	497-1292-2-ND	Single Bilateral Switch	SOT-23-5L	384.00/3,000		
74V1T125CTR	497-4037-1-ND	Tri-State Single Bus Buffer	SOT-323-5L	.46	.35	.26
74V1T125CTR	497-4037-2-ND	Tri-State Single Bus Buffer	SOT-323-5L	357.00/3,000		
74V1T125STR	497-1287-1-ND	Tri-State Single Bus Buffer	SOT-23-5L	.70	.56	.42
74V1T125STR	497-1287-2-ND	Tri-State Single Bus Buffer	SOT-23-5L	630.00/3,000		
74V2G00STR	497-1298-1-ND	Dual 2-Input NAND Gate	SOT-23-8L	.81	.65	.49
74V2G00STR	497-1298-2-ND	Dual 2-Input NAND Gate	SOT-23-8L	771.00/3,000		
74V2G04STR	497-1300-1-ND	Triple Inverter	SOT-23-8L	.48	.35	.26
74V2G04STR	497-1300-2-ND	Triple Inverter	SOT-23-8L	429.00/3,000		
74V2G08STR	497-1303-1-ND	Dual 2-Input AND Gate	SOT-23-8L	.48	.35	.26
74V2G08STR	497-1303-2-ND	Dual 2-Input AND Gate	SOT-23-8L	429.00/3,000		
74V2G14STR	497-1306-1-ND	Triple Schmitt Inverter	SOT-23-8L	.48	.35	.26
74V2G14STR	497-1306-2-ND	Triple Schmitt Inverter	SOT-23-8L	429.00/3,000		
74V2G32STR	497-4523-1-ND	Dual 2-Input OR Gate	SOT-23-8L	.81	.65	.49
74V2G32STR	497-4523-2-ND	Dual 2-Input OR Gate	SOT-23-8L	771.00/3,000		
74V2G66STR	497-1308-1-ND	Dual Bilateral Switch	SOT-23-8L	.55	.40	.30
74V2G66STR	497-1308-2-ND	Dual Bilateral Switch	SOT-23-8L	495.00/3,000		
74V2G70STR	497-1309-1-ND	Triple Buffer	SOT-23-8L	.48	.35	.26
74V2G70STR	497-1309-2-ND	Triple Buffer	SOT-23-8L	429.00/3,000		
74V2G125STR	497-1304-1-ND	Tri-State Dual Bus Buffer	SOT-23-8L	.60	.44	.33
74V2G125STR	497-1304-2-ND	Tri-State Dual Bus Buffer	SOT-23-8L	540.00/3,000		
74V2G126STR	497-1305-1-ND	Tri-State Dual Bus Buffer	SOT-23-8L	.48	.35	.26
74V2G126STR	497-1305-2-ND	Tri-State Dual Bus Buffer	SOT-23-8L	429.00/3,000		
74V2T04STR	497-1311-1-ND	Triple Inverter	SOT-23-8L	.48	.35	.26
74V2T04STR	497-1311-2-ND	Triple Inverter	SOT-23-8L	429.00/3,000		
74V2T08STR	497-1314-1-ND	Dual 2-Input AND Gate	SOT-23-8L	.48	.35	.26
74V2T08STR	497-1314-2-ND	Dual 2-Input AND Gate	SOT-23-8L	429.00/3,000		
74V2T125STR	497-1315-1-ND	Tri-State Dual Bus Buffer	SOT-23-8L	.48	.35	.26
74V2T125STR	497-1315-2-ND	Tri-State Dual Bus Buffer	SOT-23-8L	429.00/3,000		
74V2T126STR	497-1316-1-ND	Tri-State Dual Bus Buffer	SOT-23-8L	.48	.35	.26
74V2T126STR	497-1316-2-ND	Tri-State Dual Bus Buffer	SOT-23-8L	429.00/3,000		
74VCX16244TTR	497-1095-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Buffer	48-TSSOP	1.80	1.50	1.26
74VCX16244TTR	497-1095-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Buffer	48-TSSOP	1620.00/2,000		
74VCX16245LBR	497-2921-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver	54-TFBGA	2.55	2.13	1.79
74VCX16245LBR	497-2921-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver	54-TFBGA	3315.00/3,000		
74VCX16245TTR	497-3706-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1.80	1.50	1.26
74VCX16245TTR	497-3706-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1620.00/2,000		
74VCX16373TTR	497-1096-1-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Latch	48-TSSOP	1.80	1.50	1.26
74VCX16373TTR	497-1096-2-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Latch	48-TSSOP	1620.00/2,000		
74VCX16374TTR	497-1097-1-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1.80	1.50	1.26
74VCX16374TTR	497-1097-2-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1620.00/2,000		
74VCX1632245LBR	497-2922-1-ND	16-Bit Dual Supply Bus Transceiver	54-TFBGA	3.51	3.06	2.28
74VCX1632245LBR	497-2922-2-ND	16-Bit Dual Supply Bus Transceiver	54-TFBGA	4992.00/3,000		
74VCX1632245TBR	497-4145-1-ND	16-Bit Dual Supply Bus Transceiver	42-TFBGA	2.55	2.13	1.79
74VCX1632245TBR	497-4145-2-ND	16-Bit Dual Supply Bus Transceiver	42-TFBGA	3315.00/3,000		
74VCX1632245TTR	497-2923-1-ND	16-Bit Dual Supply Bus Transceiver	48-TSSOP	2.82	2.35	1.98
74VCX1632245TTR	497-2923-2-ND	16-Bit Dual Supply Bus Transceiver	48-TSSOP	2538.00/2,000		
74VCXH16244TTR	497-1098-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Buffer	48-TSSOP	1.80	1.50	1.26
74VCXH16244TTR	497-1098-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Buffer	48-TSSOP	1620.00/2,000		
74VCXH16245TTR	497-1099-1-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1.80	1.50	1.26
74VCXH16245TTR	497-1099-2-ND	Tri-State Low Voltage CMOS 16-Bit Bus Transceiver	48-TSSOP	1620.00/2,000		
74VCXH16374TTR	497-1101-1-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1.80	1.50	1.26
74VCXH16374TTR	497-1101-2-ND	Tri-State Low Voltage CMOS 16-Bit D-Type Flip-Flop	48-TSSOP	1620.00/2,000		
74VCXH1632245TBR	497-4146-1-ND	16-Bit Dual Supply Bus Transceiver Level Translator	42-TFBGA	2.55	2.13	1.79
74VCXH1632245TBR	497-4146-2-ND	16-Bit Dual Supply Bus Transceiver Level Translator	42-TFBGA	3315.00/3,000		
74VCXH1632245TTR	497-4147-1-ND	16-Bit Dual Supply Bus Transceiver Level Translator	48-TSSOP	2.55	2.13	1.79
74VCXH1632245TTR	497-4147-2-ND	16-Bit Dual Supply Bus Transceiver Level Translator	48-TSSOP	2296.00/2,000		
74VHC05TTR	497-4148-1-ND	Hex Inverter, Open Drain	14-TSSOP	.65	.52	.39
74VHC05TTR	497-4148-2-ND	Hex Inverter, Open Drain	14-TSSOP	487.50/2,500		
74VHC08MTR	497-1102-1-ND	Quad 2-Input AND Gate	14-SOIC	.55	.34	.26
74VHC08MTR	497-1102-2-ND	Quad 2-Input AND Gate	14-SOIC	362.50/2,500		
74VHC14MTR	497-1104-1-ND	Hex Schmitt Inverter	14-SOIC	.49	.30	.23
74VHC14MTR	497-1104-2-ND	Hex Schmitt Inverter	14-SOIC	320.00/2,500		
74VHC138MTR	497-1103-1-ND	3-8 Line Decoder	16-SOIC	.55	.44	.30
74VHC138MTR	497-1103-2-ND	3-8 Line Decoder	16-SOIC	412.50/2,500		
74VHC240MTR	497-2925-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.47	.36
74VHC240MTR	497-2925-2-ND	Tri-State Octal Bus Buffer	20-SOIC	208.00/1,000		
74VHC244MTR	497-2926-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.47	.36
74VHC244MTR	497-2926-2-ND	Tri-State Octal Bus Buffer	20-SOIC	208.00/1,000		
74VHC245MTR	497-1105-1-ND	Tri-State Octal Bus Transceiver	20-SOIC	.75	.54	.41
74VHC245MTR	497-1105-2-ND	Tri-State Octal Bus Transceiver	20-SOIC	240.00/1,000		
74VHC273MTR	497-1106-1-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	.65	.47	.36
74VHC273MTR	497-1106-2-ND	Octal D-Type Flip-Flop with Clear	20-SOIC	208.00/1,000		
74VHC16240TTR	497-2924-1-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1.35	1.17	.90
74VHC16240TTR	497-2924-2-ND	Tri-State 16-Bit Bus Buffer	48-TSSOP	1044.00/2,000		
74VHCT244AMTR	497-2928-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.65	.47	.36
74VHCT244AMTR	497-2928-2-ND	Tri-State Octal Bus Buffer	20-SOIC	208.00/1,000		
74VHCT541AMTR	497-2929-1-ND	Tri-State Octal Bus Buffer	20-SOIC	.70	.51	.38
74VHCT541AMTR	497-2929-2-ND	Tri-State Octal Bus Buffer	20-SOIC	224.00/1,000		
74VHCT16373ATTR	497-1107-1-ND	16-Bit D-Type Latch	48-TSSOP	1.35	1.17	.90
74VHCT16373ATTR	497-1107-2-ND	16-Bit D-Type Latch	48-TSSOP	1044.00/2,000		

STMicroelectronics 78/79 SERIES VOLTAGE REGULATOS
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
L78L05ABD13TRI	497-1180-1-ND	5V, Positive Voltage Regulator	8-SOIC	.48	.38	.29
L78L05ABD13TRI	497-1180-2-ND	5V, Positive Voltage Regulator	8-SOIC	357.50/2,500		
L78L05ABUTR	497-1181-1-ND	5V, Positive Voltage Regulator	SOT-89	.90	.72	.54
L78L05ABUTR	497-1181-2-ND	5V, Positive Voltage Regulator	SOT-89	712.50/2,500		
L78L05ABZ	497-1009-ND	5V, Positive Voltage Regulator	TO-92	.70	.56	.42
L78L05ACD	497-2951-5-ND	5V, Positive Voltage Regulator	8-SOIC	.48	.39	.29
L78L05ACD13TRI	497-1182-1-ND	5V, Positive Voltage Regulator	8-SOIC	.55	.43	.26
L78L05ACD13TRI	497-1182-2-ND	5V, Positive Voltage Regulator	8-SOIC	362.50/2,500		
L78L05ACUTR	497-1183-1-ND	5V, Positive Voltage Regulator	SOT-89	.77	.62	.46
L78L05ACUTR	497-1183-2-ND	5V, Positive Voltage Regulator	SOT-89	605.00/2,500		
L78L05ACZ	497-2952-5-ND	5V, Positive Voltage Regulator	TO-92	.54	.44	.33
L78L05ACZTR	497-1184-1-ND	5V, Positive Voltage Regulator	TO-92	.50	.40	.30
L78L05ACZTR	497-1184-2-ND	5V, Positive Voltage Regulator	TO-92	320.00/2,000		
L78L06ABZ	497-1010-ND	6V, Positive Voltage Regulator	TO-92	.72	.58	.44
L78L06ACD13TRI	497-1185-1-ND	6V, Positive Voltage Regulator	8-SOIC	.81	.65	.49
L78L06ACD13TRI	497-1185-2-ND	6V, Positive Voltage Regulator	8-SOIC	642.50/2,500		
L78L06ACZ	497-2953-5-ND	6V, Positive Voltage Regulator	TO-92	.70	.56	.42
L78L06ACZ-TRI	497-1186-1-ND	6V, Positive Voltage Regulator	TO-92	.72	.58	.44
L78L06ACZ-TRI	497-1186-2-ND	6V, Positive Voltage Regulator	TO-92	496.00/2,000		
L78L08ABD13TRI	497-1187-1-ND	8V, Positive Voltage Regulator	8-SOIC	.99	.80	.60
L78L08ABD13TRI	497-1187-2-ND	8V, Positive Voltage Regulator	8-SOIC	785.00/2,500		
L78L08ABUTR	497-1188-1-ND	8V, Positive Voltage Regulator	SOT-89	.90	.72	.54
L78L08ABUTR	497-1188-2-ND	8V, Positive Voltage Regulator	SOT-89	712.50/2,500		
L78L08ABZ	497-1011-ND	8V, Positive Voltage Regulator	TO-92	.68	.54	.41
L78L08ACD13TRI	497-1189-1-ND	8V, Positive Voltage Regulator	8-SOIC	.55	.44	.33
L78L08ACD13TRI	497-1189-2-ND	8V, Positive Voltage Regulator	8-SOIC	412.50/2,500		
L78L08ACZ	497-2954-5-ND	8V, Positive Voltage Regulator	TO-92	.70	.56	.42
L78L08ACZTR	497-1190-1-ND	8V, Positive Voltage Regulator	TO-92	.55	.44	.33
L78L08ACZTR	497-1190-2-ND	8V, Positive Voltage Regulator	TO-92	352.00/2,000		
L78L09ACD13TRI	497-1191-1-ND	9V, Positive Voltage Regulator	8-SOIC	.60	.48	.36
L78L09ACD13TRI	497-1191-2-ND	9V, Positive Voltage Regulator	8-SOIC	450.00/2,500		
L78L09ACUTR	497-1192-1-ND	9V, Positive Voltage Regulator	SOT-89	.60	.48	.36
L78L09ACUTR	497-1192-2-ND	9V, Positive Voltage Regulator	SOT-89	450.00/2,500		
L78L09ACZ	497-1012-ND	9V, Positive Voltage Regulator	TO-92	.60	.48	.36
L78L09CD13TRI	497-1193-1-ND	9V, Positive Voltage Regulator	8-SOIC	.60	.48	.36
L78L09CD13TRI	497-1193-2-ND	9V, Positive Voltage Regulator	8-SOIC	450.00/2,500		
L78L12ACD13TRI	497-1194-1-ND	12V, Positive Voltage Regulator	8-SOIC	.65	.52	.39
L78L12ACD13TRI	497-1194-2-ND	12V, Positive Voltage Regulator	8-SOIC	487.50/2,500		
L78L12ACUTR	497-1195-1-ND	12V, Positive Voltage Regulator	SOT-89	.77	.62	.46
L78L12ACUTR	497-1195-2-ND	12V, Positive Voltage Regulator	SOT-89	605.00/2,500		
L78L12ACZ	497-2955-5-ND	12V, Positive Voltage Regulator	TO-92	.70	.56	.42
L78L12ACZ-TRI	497-1196-1-ND	12V, Positive Voltage Regulator	TO-92	.48	.38	.29
L78L12ACZ-TRI	497-1196-2-ND	12V, Positive Voltage Regulator	TO-92	304.00/2,000		
L78L15ACZ-TRI	497-1197-1-ND	15V, Positive Voltage Regulator	TO-92	.55	.44	.33
L78L15ACZ-TRI	497-1197-2-ND	15V, Positive Voltage Regulator	TO-92	352.00/2,000		
L78L15CD-TRI	497-1198-1-ND	15V, Positive Voltage Regulator	8-SOIC	.60	.48	.36
L78L15CD-TRI	497-1198-2-ND	15V, Positive Voltage Regulator	8-SOIC	450.00/2,500		
L78L33ACD13TRI	497-1199-1-ND	3.3V, Positive Voltage Regulator	8-SOIC	.81	.65	.49
L78L33ACD13TRI	497-1199-2-ND	3.3V, Positive Voltage Regulator	8-SOIC	642.50/2,500		
L78L33ACUTR	497-1200-1-ND	3.3V, Positive Voltage Regulator	SOT-89	.77	.62	.46
L78L33ACUTR	497-1200-2-ND	3.3V, Positive Voltage Regulator	SOT-89	605.00/2,500		
L78M05ABDT-TRI	497-1201-1-ND	5V, Precision 500mA Regulator	D-PAK	.99	.80	.60
L78M05ABDT-TRI	497-1201-2-ND	5V, Precision 500mA Regulator	D-PAK	785.00/2,500		
L78M05ABV	497-1461-5-ND	5V, Precision 500mA Regulator	TO-220	.86	.69	.52
L78M05ACDT-TRI	497-1202-1-ND	5V, Precision 500mA Regulator	D-PAK	.90	.72	.54
L78M05ACDT-TRI	497-1202-2-ND	5V, Precision 500mA Regulator	D-PAK	712.50/2,500		
L78M05CDT	497-2956-5-ND	5V, Positive Voltage Regulator	D-PAK	1.08	.87	.65
L78M05CDT-TRI	497-1203-1-ND	5V, Positive Voltage Regulator	D-PAK	.70	.56	.42
L78M05CDT-TRI	497-1203-2-ND	5V, Positive Voltage Regulator	D-PAK	525.00/2,500		
L78M05CV	497-2957-5-ND	5V, Positive Voltage Regulator	TO-220	.90	.72	.54
L78M06ACDT-TRI	497-1204-1-ND	6V, Precision 500mA Regulator	D-PAK	.90	.72	.54
L78M06CV	497-1462-5-ND	6V, Positive Voltage Regulator	TO-220	.72	.58	.44
L78M08ABDT-TRI	497-1205-1-ND	8V, Precision 500mA Regulator	D-PAK	.99	.80	.60
L78M08ABDT-TRI	497-1205-2-ND	8V, Precision 500mA Regulator	D-PAK	785.00/2,500		

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STMicroelectronics 78/79 SERIES VOLTAGE REGULATORS *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
L78M08CDT-TR	497-1206-1-ND	8V, Positive Voltage Regulator	D-PAK	.90	.72	.54
L78M08CDT-TR	497-1206-2-ND	8V, Positive Voltage Regulator	D-PAK	712.50/2,500		
L78M08CV	497-1463-5-ND	8V, Positive Voltage Regulator	TO-220	.81	.65	.49
L78M09ABV	497-4616-5-ND	9V, Precision 500mA Regulator	TO-220	1.05	.91	.70
L78M09ACDT-TR	497-1207-1-ND	9V, Precision 500mA Regulator	D-PAK	1.16	1.01	.78
L78M09ACDT-TR	497-1207-2-ND	9V, Precision 500mA Regulator	D-PAK	1030.00/2,500		
L78M09CDT-TR	497-1208-1-ND	9V, Positive Voltage Regulator	D-PAK	.81	.65	.49
L78M09CDT-TR	497-1208-2-ND	9V, Positive Voltage Regulator	D-PAK	642.50/2,500		
L78M12ABDT-TR	497-1209-1-ND	12V, Precision 500mA Regulator	D-PAK	.99	.87	.67
L78M12ABDT-TR	497-1209-2-ND	12V, Precision 500mA Regulator	D-PAK	880.00/2,500		
L78M12ACDT-TR	497-1210-1-ND	12V, Precision 500mA Regulator	D-PAK	.86	.69	.52
L78M12ACDT-TR	497-1210-2-ND	12V, Precision 500mA Regulator	D-PAK	677.50/2,500		
L78M12CDT-1	497-4228-5-ND	12V, Precision 500mA Regulator	I-PAK	1.08	.87	.65
L78M12CDT-TR	497-1211-1-ND	12V, Positive 500mA Regulator	D-PAK	.90	.72	.54
L78M12CDT-TR	497-1211-2-ND	12V, Positive 500mA Regulator	D-PAK	712.50/2,500		
L78M12CV	497-1464-5-ND	12V, Positive 500mA Regulator	TO-220	.72	.58	.44
L78M15ABV	497-1465-5-ND	15V, Precision 500mA Regulator	TO-220	.86	.69	.52
L78M15ACDT	497-4229-5-ND	15V, Precision 500mA Regulator	D-PAK	1.16	1.01	.78
L78M15CDT-TR	497-1212-1-ND	15V, Precision 500mA Regulator	D-PAK	1.08	.87	.65
L78M15CDT-TR	497-1212-2-ND	15V, Precision 500mA Regulator	D-PAK	855.00/2,500		
L78M15CV	497-2958-5-ND	15V, Precision 500mA Regulator	TO-220	.90	.72	.54
L78M18ABDT	497-1466-5-ND	18V, Precision 500mA Regulator	D-PAK	1.80	1.56	1.20
L78M24ABV	497-4813-5-ND	24V, Precision 500mA Reg. ***NEW!***	TO-220	.90	.72	.54
L78M24CDT-TR	497-1213-1-ND	24V, Precision 500mA Regulator	D-PAK	.98	.85	.65
L78M24CDT-TR	497-1213-2-ND	24V, Precision 500mA Regulator	D-PAK	865.00/2,500		
L78M24CV	497-1467-5-ND	24V, Precision 500mA Regulator	TO-220	.72	.58	.44
L78S05CV	497-1468-5-ND	5V, Positive 2A Regulator	TO-220	1.04	.83	.63
L78S12CV	497-1469-5-ND	12V, Positive 2A Regulator	TO-220	1.04	.83	.63
L78S24CV	497-1470-5-ND	24V, Positive 2A Regulator	TO-220	1.04	.83	.63
L79L05ABUTR	497-1217-1-ND	-5V, Negative Voltage Regulator	SOT-89	.95	.76	.57
L79L05ABUTR	497-1217-2-ND	-5V, Negative Voltage Regulator	SOT-89	747.50/2,500		
L79L05ACD13TR	497-1218-1-ND	-5V, Negative Voltage Regulator	8-SOIC	.55	.44	.33
L79L05ACD13TR	497-1218-2-ND	-5V, Negative Voltage Regulator	8-SOIC	412.50/2,500		
L79L05ACUTR	497-1219-1-ND	-5V, Negative Voltage Regulator	SOT-89	.86	.69	.52
L79L05ACUTR	497-1219-2-ND	-5V, Negative Voltage Regulator	SOT-89	677.50/2,500		
L79L05ACZ	497-2960-5-ND	-5V, Negative Voltage Regulator	TO-92	.70	.56	.42
L79L05ACZ-TR	497-1220-1-ND	-5V, Negative Voltage Regulator	TO-92	.48	.38	.29
L79L05ACZ-TR	497-1220-2-ND	-5V, Negative Voltage Regulator	TO-92	304.00/2,000		
L79L12ACZ	497-1013-ND	-12V, Negative Voltage Regulator	TO-92	.70	.56	.42
L7805ABD2T-TR	497-1170-1-ND	5V, Precision 1A Regulator	D2-PAK	1.04	.83	.58
L7805ABD2T-TR	497-1170-2-ND	5V, Precision 1A Regulator	D2-PAK	357.00/1,000		
L7805ABP	497-4226-5-ND	5V, Precision 1A Regulator	TO-220FP	.99	.80	.60
L7805ABV	497-2947-5-ND	5V, Precision 1A Regulator	TO-220	1.13	.98	.75
L7805ACD2T	497-1440-5-ND	5V, Precision 1A Regulator	D2-PAK	1.16	1.01	.78
L7805ACV	497-1441-5-ND	5V, Precision 1A Regulator	TO-220	.72	.58	.44
L7805CD2T	497-2948-5-ND	5V, Positive Voltage Regulator	D2-PAK	1.05	.91	.70
L7805CD2T-TR	497-1171-1-ND	5V, Positive Voltage Regulator	D2-PAK	.86	.69	.52
L7805CD2T-TR	497-1171-2-ND	5V, Positive Voltage Regulator	D2-PAK	295.00/1,000		
L7805CP	497-1442-5-ND	5V, Positive Voltage Regulator	TO-220FP	.81	.65	.49
L7805CT	497-1005-ND	5V, Positive Voltage Regulator	TO-3	2.16	1.80	1.52
L7805CV	497-1443-5-ND	5V, Positive Voltage Regulator	TO-220	.55	.44	.33
L7806ABD2T-TR	497-1172-1-ND	6V, Precision 1A Regulator	D2-PAK	1.13	.90	.63
L7806ABD2T-TR	497-1172-2-ND	6V, Precision 1A Regulator	D2-PAK	388.00/1,000		
L7806ABV	497-1444-5-ND	6V, Precision 1A Regulator	TO-220	.77	.62	.46
L7806CV	497-1445-5-ND	6V, Positive Voltage Regulator	TO-220	.65	.52	.39
L7808ABD2T-TR	497-1173-1-ND	8V, Precision 1A Regulator	D2-PAK	1.13	.90	.68
L7808ABD2T-TR	497-1173-2-ND	8V, Precision 1A Regulator	D2-PAK	388.00/1,000		
L7808ABV	497-1446-5-ND	8V, Precision 1A Regulator	TO-220	.77	.62	.46
L7808CD2T-TR	497-1174-1-ND	8V, Positive Voltage Regulator	D2-PAK	1.08	.87	.65
L7808CD2T-TR	497-1174-2-ND	8V, Positive Voltage Regulator	D2-PAK	372.00/1,000		
L7808CV	497-2949-5-ND	8V, Positive Voltage Regulator	TO-220	.70	.57	.43
L7809ABD2T	497-4227-5-ND	9V, Precision 1A Regulator	D2-PAK	1.24	1.08	.83
L7809ABV	497-1447-5-ND	9V, Precision 1A Regulator	TO-220	1.24	1.08	.83
L7809ACD2T-TR	497-1175-1-ND	9V, Precision 1A Regulator	D2-PAK	.94	.82	.63
L7809ACD2T-TR	497-1175-2-ND	9V, Precision 1A Regulator	D2-PAK	363.00/1,000		
L7809CD2T-TR	497-1176-1-ND	9V, Positive Voltage Regulator	D2-PAK	.99	.80	.60
L7809CD2T-TR	497-1176-2-ND	9V, Positive Voltage Regulator	D2-PAK	341.00/1,000		
L7809CV	497-1448-5-ND	9V, Positive Voltage Regulator	TO-220	.65	.52	.39
L7812ABV	497-1449-5-ND	12V, Precision 1A Regulator	TO-220	.81	.65	.49
L7812ACD2T-TR	497-1177-1-ND	12V, Precision 1A Regulator	D2-PAK	1.22	.98	.73
L7812ACD2T-TR	497-1177-2-ND	12V, Precision 1A Regulator	D2-PAK	419.00/1,000		
L7812ACP	497-4939-5-ND	12V, Precision 1A Regulator ***NEW!***	TO-220FP	.77	.62	.46
L7812ACV	497-1450-5-ND	12V, Precision 1A Regulator	TO-220	.72	.58	.44
L7812CD2T	497-2950-5-ND	12V, Positive Voltage Regulator	D2-PAK	1.05	.91	.70
L7812CD2T-TR	497-1178-1-ND	12V, Positive Voltage Regulator	D2-PAK	.99	.80	.60
L7812CD2T-TR	497-1178-2-ND	12V, Positive Voltage Regulator	D2-PAK	341.00/1,000		
L7812CP	497-1451-5-ND	12V, Positive Voltage Regulator	TO-220FP	.98	.85	.65
L7812CT	497-1006-ND	12V, Positive Voltage Regulator	TO-3	1.86	1.55	1.31
L7812CV	497-1452-5-ND	12V, Positive Voltage Regulator	TO-220	.55	.44	.33
L7815ACV	497-1453-5-ND	15V, Precision 1A Regulator	TO-220	.77	.62	.46
L7815CD2T-TR	497-1179-1-ND	15V, Positive Voltage Regulator	D2-PAK	.99	.80	.60
L7815CD2T-TR	497-1179-2-ND	15V, Positive Voltage Regulator	D2-PAK	341.00/1,000		
L7815CT	497-1007-ND	15V, Positive Voltage Regulator	TO-3	2.16	1.80	1.52
L7815CV	497-1454-5-ND	15V, Positive Voltage Regulator	TO-220	.55	.44	.33
L7818ABV	497-1455-5-ND	18V, Precision 1A Regulator	TO-220	1.24	1.08	.83
L7818CV	497-1456-5-ND	18V, Positive Voltage Regulator	TO-220	.65	.52	.39
L7820CV	497-1457-5-ND	20V, Positive Voltage Regulator	TO-220	.65	.52	.39
L7824ACV	497-1458-5-ND	24V, Precision 1A Regulator	TO-220	.77	.62	.46
L7824CD2T	497-1459-5-ND	24V, Positive Voltage Regulator	D2-PAK	1.05	.91	.70
L7824CD2T-TR	497-4775-1-ND	24V, Positive Voltage Reg. ***NEW!***	D2-PAK	1.04	.83	.63
L7824CD2T-TR	497-4775-2-ND	24V, Positive Voltage Reg. ***NEW!***	D2-PAK	357.00/1,000		
L7824CT	497-1008-ND	24V, Positive Voltage Regulator	TO-3	2.16	1.80	1.52
L7824CV	497-1460-5-ND	24V, Positive Voltage Regulator	TO-220	.65	.52	.39
L7905ACV	497-1471-5-ND	-5V, Negative 2% Regulator	TO-220	.77	.62	.46
L7905CD2T	497-2959-5-ND	-5V, Negative Voltage Regulator	D2-PAK	1.16	1.01	.78
L7905CD2T-TR	497-1214-1-ND	-5V, Negative Voltage Regulator	D2-PAK	.99	.80	.60
L7905CD2T-TR	497-1214-2-ND	-5V, Negative Voltage Regulator	D2-PAK	341.00/1,000		
L7905CV	497-1472-5-ND	-5V, Negative Voltage Regulator	TO-220	.65	.52	.39
L7906CD2T-TR	497-4230-1-ND	-6V, Negative Voltage Regulator	D2-PAK	1.16	1.01	.78
L7906CD2T-TR	497-4230-2-ND	-6V, Negative Voltage Regulator	D2-PAK	450.00/1,000		
L7906CV	497-1473-5-ND	-6V, Negative Voltage Regulator	TO-220	.72	.58	.44
L7908ACV	497-4231-5-ND	-8V, Negative Voltage Regulator	TO-220	.72	.58	.44
L7908CV	497-1474-5-ND	-8V, Negative Voltage Regulator	TO-220	.72	.58	.44
L7912ACV	497-1475-5-ND	-12V, Negative 2% Regulator	TO-220	.72	.58	.44
L7912CD2T-TR	497-1215-1-ND	-12V, Negative Voltage Regulator	D2-PAK	1.08	.87	.65
L7912CD2T-TR	497-1215-2-ND	-12V, Negative Voltage Regulator	D2-PAK	372.00/1,000		
L7912CV	497-1476-5-ND	-12V, Negative Voltage Regulator	TO-220	.65	.52	.39
L7915ACV	497-1477-5-ND	-15V, Negative Voltage Regulator	TO-220	.72	.58	.44
L7915CD2T-TR	497-1216-1-ND	-15V, Negative Voltage Regulator	D2-PAK	1.16	1.01	.78
L7915CD2T-TR	497-1216-2-ND	-15V, Negative Voltage Regulator	D2-PAK	450.00/1,000		
L7915CV	497-1478-5-ND	-15V, Negative Voltage Regulator	TO-220	.65	.52	.39
L7918CV	497-1479-5-ND	-18V, Negative Voltage Regulator	TO-220	.65	.52	.39
L7924CV	497-1480-5-ND	-24V, Negative Voltage Regulator	TO-220	.68	.54	.45

STMicroelectronics APPLICATION SPECIFIC DISCRETES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
ACS102-5TA-TR	497-3113-1-ND	AC Line Switch	TO-92	1.50	1.30	1.00
ACS102-5TA-TR	497-3113-2-ND	AC Line Switch	TO-92	1160.00/2,000		
ACS108-5SA	497-2401-ND	AC Line Switch	TO-92	1.68	1.40	1.18
ACS108-5SN	497-2448-1-ND	AC Line Switch	SOT-223	2.10	1.75	1.47
ACS108-5SN	497-2448-2-ND	AC Line Switch	SOT-223	945.00/1,000		
ACS110-7SB2	497-4149-5-ND	AC Line Switch	8-DIL	1.80	1.50	1.26
ACS120-7SFP	497-3815-5-ND	AC Line Switch	TO-220-FPAB	1.73	1.50	1.15
ACS302-5T3	497-3114-5-ND	AC Switch Array, 3 Lines	20-SOIC	2.13	1.78	1.50
ACST4-7CB	497-4639-5-ND	AC Power Switch ***NEW!***	D-PAK	2.40	2.00	1.68
ACST4-7CFP	497-3820-5-ND	AC Power Switch	TO-220-FPAB	2.40	2.00	1.68
ACST4-7CH	497-4640-5-ND	AC Power Switch ***NEW!***	I-PAK	2.40	2.00	1.68
ACST4-7SB	497-2555-5-ND	AC Power Switch	D-PAK	2.40	2.00	1.68
ACST4-7SB-TR	497-2555-1-ND	AC Power Switch	D-PAK	1.50	1.25	1.05
ACST4-7SB-TR	497-2555-2-ND	AC Power Switch	D-PAK	1820.00/2,500		
ACST4-7SFP	497-2568-5-ND	AC Power Switch	TO-220-FPAB	2.40	2.00	1.68
ACST6-7SFP	497-3789-5-ND	Over Voltage Protected AC Power Switch	TO-220-FPAB	2.25	1.88	1.58
ACST6-7SG	497-3115-5-ND	Over Volt. Protected AC Power Switch	D2-PAK	2.25	1.88	1.58
ACST6-7ST	497-2547-5-ND	Over Volt. Protected AC Power Switch	TO-220AB	2.10	1.75	1.47
ACST8-8CFP	497-2566-5-ND	Over Voltage Protected AC Power Switch	TO-220-FPAB	2.67	2.23	1.87
ACST8-8CG-TR	497-4151-1-ND	Over Volt. Protected AC Power Switch	D2-PAK	2.67	2.23	1.87
ACST8-8CG-TR	497-4151-2-ND	Over Volt. Protected AC Power Switch	D2-PAK	1202.00/1,000		
ACST8-8CT	497-3380-ND	Over Voltage Protected AC Power Switch	TO-220AB	2.40	2.00	1.68
AVS08CB	497-2567-5-ND	Auto Voltage Switch	TO-220AB	2.22	1.85	1.56
AVS1ACP08	497-3620-ND	Auto Voltage Switch	8-Dip	3.78	3.29	2.45
AVS12CB	497-2564-5-ND	Auto Voltage Switch	TO-220AB	2.73	2.38	1.77
DA108S1	497-2696-5-ND	Diode Array	8-SOIC	1.43	1.24	.95
DA108S1RL	497-3399-1-ND	8 Diode Array	8-SOIC	1.43	1.24	.95
DA108S1RL	497-3399-2-ND	8 Diode Array	8-SOIC	1262.50/2,500		
DALC112S1	497-2695-5-ND	12 Diode Low Capacitance Array for ESD Protection	8-SOIC	1.24	1.08	.83
DALC112S1RL	497-3400-1-ND	12 Diode Low Capacitance Array for ESD Protection	8-SOIC	1.24	1.08	.83
DALC112S1RL	497-3400-2-ND	12 Diode Low Capacitance Array for ESD Protection	8-SOIC	1097.50/2,500		
DALC208SC6	497-2525-1-ND	Low Capacitance Diode Array	SOT-23-6	1.24	1.08	.83
DALC208SC6	497-2525-2-ND	Low Capacitance Diode Array	SOT-23-6	1317.00/3,000		
EMIF01-10005W5	497-3708-1-ND	1 Line EMI Filter	SOT-323-5	1.13	.98	.75
EMIF01-10005W5	497-3708-2-ND	1 Line EMI Filter	SOT-323-5	1197.00/3,000		
EMIF02-MIC02F2	497-3782-1-ND	2 Lines EMI Filter, ESD Protection	Flip Chip	1.13	.98	.75
EMIF02-MIC02F2	497-3782-2-ND	2 Lines EMI Filter, ESD Protection	Flip Chip	1915.00/5,000		
EMIF02-USB05C2	497-4613-1-ND	2 Lines EMI Filter, ESD Protection	Flip Chip	1.13	.98	.75
EMIF02-USB05C2	497-4613-2-ND	2 Lines EMI Filter, ESD Protection	Flip Chip	1915.00/5,000		
EMIF03-SIM01	497-3709-1-ND	3 Lines EMI Filter	Flip Chip	1.09	.95	.73
EMIF03-SIM01	497-3709-2-ND	3 Lines EMI Filter	Flip Chip	1850.00/5,000		
EMIF04-VID01F2	497-4614-1-ND	4 Lines Low Capacitance EMI Filter, ESD Protection	Flip Chip	.94	.82	.63
EMIF04-VID01F2	497-4614-2-ND	4 Lines Low Capacitance EMI Filter, ESD Protection	Flip Chip	1595.00/5,000		
EMIF06-10006F1	497-3710-1-ND	6 Lines EMI Filter	Flip Chip	1.09	.95	.73
EMIF06-10006F1	497-3710-2-ND	6 Lines EMI Filter	Flip Chip	1850.00/5,000		
EMIF06-VID01F2	497-4543-1-ND	6 Lines Low Capacitance EMI Filter	Flip Chip	1.31	1.14	.88
EMIF06-VID01F2	497-4543-2-ND	6 Lines Low Capacitance EMI Filter	Flip Chip	2230.00/5,000		
SSRP105B1	497-4303-5-ND	Dual Asymmetrical Overvoltage Protection for Telecom Line	8-SOIC	1.50	1.25	1.05
ST1284-01A8	497-2565-5-ND	Single Termination Network	28-QSOP	2.85	2.38	2.00
ST1394-01SC6	497-3725-1-ND	IEEE1394 One Port Cable Termination Network with ESD Protection	SOT-23-6	1.13	.98	.75
ST1394-01SC6	497-3725-2-ND	IEEE1394 One Port Cable Termination Network with ESD Protection	SOT-23-6	1197.00/3,000		
STIL02-P5	497-3174-5-ND	AC Inrush Current Limiter	Pentawatt HV2	1.77	1.48	1.24
STIL04-P5	497-3175-5-ND	AC Inrush Current Limiter	Pentawatt HV2	1.77	1.48	1.24
STIL04-T5	497-4359-5-ND	AC Inrush Current Limiter	Pentawatt HV2	2.40	2.00	1.68
STIL08-T5	497-4360-5-ND	AC Inrush Current Limiter	Pentawatt	2.70	2.25	1.89
STLD20D-C8	497-4361-1-ND	White LED Power Supply	SOT-23-8L	2.25	1.88	1.58
STLD20D-C8	497-4361-2-ND	White LED Power Supply	SOT-23-8L	2925.00/3,000		
STLD20D-DEF	497-4362-1-ND	White LED Power Supply	8-QFN	2.40	2.00	1.68
STLD20D-DEF	497-4362-2-ND	White LED Power Supply	8-QFN	3120.00/3,000		
STP08C596B1	497-3744-5-ND	8-Bit Constant Current LED Sink Driver	16-Dip	1.68	1.40	1.18
STPAC01F2	497-4388-1-ND	RF Detector for Power Amp Control	Flip Chip	1.50	1.30	1.00
STPAC01F2	497-4388-2-ND	RF Detector for Power Amp Control	Flip Chip	2550.00/5,000		
STPAC02F1	497-4389-1-ND	RF Detector for Power Amp Control	Flip Chip	1.69	1.47	1.13
STPAC02F1	497-4389-2-ND	RF Detector for Power Amp Control	Flip Chip	2870.00/5,000		
TN22-1500B-TR	497-3772-1-ND	400V, 1.8A Startlight	D-PAK	1.58	1.37	1.05
TN22-1500B-TR	497-3772-2-ND	400V, 1.8A Startlight	D-PAK	1397.50/2,500		
TPN3021RL	497-3741-1-ND	Tripolar Overvoltage Protection for Network Interfaces	8-SOIC	1.65	1.38	1.16
TPN3021RL	497-3741-2-ND	Tripolar Overvoltage Protection for Network Interfaces	8-SOIC	1787.50/2,500		
USB6B1	497-2727-5-ND	Data Line Protection	8-SOIC	1.69	1.47	1.13
USB6B1RL	497-3281-1-ND	Data Line Protection	8-SOIC	1.28	1.11	.85
USB6B1RL	497-3281-2-ND	Data Line Protection	8-SOIC	1130.00/2,500		
USBDF02W5	497-3742-1-ND	EMI Filter and Line Termination for USB Downstream Ports	SOT-323-5	1.35	1.17	.90

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STMicroelectronics APPLICATION SPECIFIC DISCRETES *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
USBDF02W5	497-3742-2-ND	EMI Filter and Line Termination for USB Downstream Ports	SOT-323-5	1437.00/3,000		
USBLC6-4SC6	497-4492-1-ND	Very Low Capacitance ESD Protection	SOT-23-6L	1.28	1.11	.85
USBLC6-4SC6	497-4492-2-ND	Very Low Capacitance ESD Protection	SOT-23-6L	1356.00/3,000		
USBUF01P6	497-3282-1-ND	EMI Filter/Line Termination	SOT-666	.90	.72	.54
USBUF01P6	497-3282-2-ND	EMI Filter/Line Termination	SOT-666	855.00/3,000		
USBUF02W6	497-3743-1-ND	EMI Filter and Line Termination for USB Upstream Ports	SOT-323-6	1.08	.87	.65
USBUF02W6	497-3743-2-ND	EMI Filter and Line Termination for USB Upstream Ports	SOT-323-6	1026.00/3,000		
		RoHS Compliant Part				
E-AVS1ACP08	497-4551-ND	Auto Voltage Switch	8-Dip	3.38	2.94	2.19

STMicroelectronics HCF SERIES

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
HCF4001BEY	497-1340-5-ND	Quad 2-Input NOR Gate	14-Dip	.55	.43	.31
HCF4001M013TR	497-1110-1-ND	Quad 2-Input NOR Gate	14-SOIC	.55	.43	.26
HCF4001M013TR	497-1110-2-ND	Quad 2-Input NOR Gate	14-SOIC	362.50/2,500		
HCF4011BEY	497-1345-5-ND	Quad 2-Input NAND Gate	14-Dip	.48	.35	.26
HCF4011M013TR	497-1114-1-ND	Quad 2-Input NAND Gate	14-SOIC	.49	.30	.23
HCF4011M013TR	497-1114-2-ND	Quad 2-Input NAND Gate	14-SOIC	320.00/2,500		
HCF4013BEY	497-1346-5-ND	Dual D-Type Flip-Flop	14-Dip	.48	.35	.26
HCF4013M013TR	497-1115-1-ND	Dual D-Type Flip-Flop	14-SOIC	.55	.34	.26
HCF4013M013TR	497-1115-2-ND	Dual D-Type Flip-Flop	14-SOIC	362.50/2,500		
HCF4014BEY	497-1347-5-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register	16-Dip	.63	.51	.38
HCF4014M013TR	497-1116-1-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register	16-SOIC	.55	.34	.26
HCF4014M013TR	497-1116-2-ND	Sync. Parallel or Serial In/Serial Out 8-Stage Static Shift Register	16-SOIC	362.50/2,500		
HCF4015BEY	497-1348-5-ND	Dual 4-Stage Static Shift Register	16-Dip	.48	.35	.26
HCF4015M013TR	497-1117-1-ND	Dual 4-Stage Static Shift Register	16-SOIC	.72	.58	.44
HCF4015M013TR	497-1117-2-ND	Dual 4-Stage Static Shift Register	16-SOIC	570.00/2,500		
HCF4016BEY	497-1349-5-ND	Quad Bilateral Switch	14-Dip	.65	.47	.36
HCF4016M013TR	497-1118-1-ND	Quad Bilateral Switch	14-SOIC	.49	.30	.23
HCF4016M013TR	497-1118-2-ND	Quad Bilateral Switch	14-SOIC	320.00/2,500		
HCF4017BEY	497-1350-5-ND	Decade Counter w/10 Decoded Output	16-Dip	.77	.62	.46
HCF4017M013TR	497-1119-1-ND	Decade Counter with 10 Decoded Output	16-SOIC	.55	.34	.26
HCF4017M013TR	497-1119-2-ND	Decade Counter with 10 Decoded Output	16-SOIC	362.50/2,500		
HCF4020BEY	497-1351-5-ND	14-Stage Ripple-Carry Binary Counter/Divider	16-Dip	.60	.44	.33
HCF4021BEY	497-1352-5-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register	16-Dip	.49	.43	.33
HCF4021M013TR	497-1120-1-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register	16-SOIC	.55	.40	.30
HCF4021M013TR	497-1120-2-ND	Async. Parallel In or Sync. Serial In/Serial Out 8-Stage Static Shift Register	16-SOIC	412.50/2,500		
HCF4024BEY	497-1353-5-ND	7-Stage Ripple-Carry Binary Counter/Divider	14-Dip	.50	.40	.30
HCF4024M013TR	497-1121-1-ND	7-Stage Ripple-Carry Binary Counter/Divider	14-SOIC	.49	.38	.23
HCF4024M013TR	497-1121-2-ND	7-Stage Ripple-Carry Binary Counter/Divider	14-SOIC	320.00/2,500		
HCF4028BEY	497-1354-5-ND	BCD to Decimal Decoder	16-Dip	.65	.47	.36
HCF4028M013TR	497-1122-1-ND	BCD to Decimal Decoder	16-SOIC	.48	.35	.26
HCF4028M013TR	497-1122-2-ND	BCD to Decimal Decoder	16-SOIC	357.50/2,500		
HCF4030BEY	497-1355-5-ND	Quad Exclusive OR Gate	14-Dip	.60	.48	.36
HCF4030M013TR	497-1123-1-ND	Quad Exclusive OR Gate	14-SOIC	.49	.30	.23
HCF4030M013TR	497-1123-2-ND	Quad Exclusive OR Gate	14-SOIC	320.00/2,500		
HCF4040BEY	497-1356-5-ND	12-Stage Ripple-Carry Binary Counter/Divider	16-Dip	.63	.51	.38
HCF4040M013TR	497-1124-1-ND	12-Stage Ripple-Carry Binary Counter/Divider	16-SOIC	.48	.35	.26
HCF4040M013TR	497-1124-2-ND	12-Stage Ripple-Carry Binary Counter/Divider	16-SOIC	357.50/2,500		
HCF4042BEY	497-1357-5-ND	Quad Clocked D-Latch	16-Dip	.79	.63	.48
HCF4042M013TR	497-1125-1-ND	Quad Clocked D-Latch	16-SOIC	.52	.32	.24
HCF4042M013TR	497-1125-2-ND	Quad Clocked D-Latch	16-SOIC	340.00/2,500		
HCF4047BEY	497-1358-5-ND	Low Power Monostable/Astable Multivibrator	14-Dip	.60	.44	.33
HCF4047M013TR	497-1126-1-ND	Low Power Monostable/Astable Multivibrator	14-SOIC	.65	.47	.36
HCF4047M013TR	497-1126-2-ND	Low Power Monostable/Astable Multivibrator	14-SOIC	487.50/2,500		
HCF4049UBEY	497-1359-5-ND	Hex Buffer/Converter	16-Dip	.55	.40	.30
HCF4049UM013TR	497-1127-1-ND	Hex Buffer/Converter	16-SOIC	.55	.34	.26
HCF4049UM013TR	497-1127-2-ND	Hex Buffer/Converter	16-SOIC	362.50/2,500		
HCF4050BEY	497-1360-5-ND	Hex Buffer/Converter	16-Dip	.48	.35	.26
HCF4050M013TR	497-1128-1-ND	Hex Buffer/Converter	16-SOIC	.55	.34	.26
HCF4050M013TR	497-1128-2-ND	Hex Buffer/Converter	16-SOIC	362.50/2,500		
HCF4051BEY	497-1361-5-ND	8-Channel Analog Mux/Demux	16-Dip	.48	.35	.26
HCF4051M013TR	497-1129-1-ND	8-Channel Analog Mux/Demux	16-SOIC	.48	.35	.26
HCF4051M013TR	497-1129-2-ND	8-Channel Analog Mux/Demux	16-SOIC	357.50/2,500		
HCF4052BEY	497-1362-5-ND	Diff. 4-Channel Analog Mux/Demux	16-Dip	.65	.47	.36
HCF4052M013TR	497-1130-1-ND	Diff. 4-Channel Analog Mux/Demux	16-SOIC	.48	.38	.29
HCF4052M013TR	497-1130-2-ND	Diff. 4-Channel Analog Mux/Demux	16-SOIC	357.50/2,500		
HCF4053BEY	497-1363-5-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.48	.35	.26
HCF4053BTTR	497-2383-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.72	.58	.44
HCF4053BTTR	497-2383-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	570.00/2,500		
HCF4053M013TR	497-1131-1-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.65	.52	.36
HCF4053M013TR	497-1131-2-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	487.50/2,500		
HCF4056BEY	497-1364-5-ND	BCD-to-7 Segment Decoder/Driver	16-Dip	.95	.76	.57
HCF4056M013TR	497-1132-1-ND	BCD-to-7 Segment Decoder/Driver	16-SOIC	.77	.62	.46
HCF4056M013TR	497-1132-2-ND	BCD-to-7 Segment Decoder/Driver	16-SOIC	605.00/2,500		
HCF4060BEY	497-1365-5-ND	14-Stage Ripple Carry Binary Counter/Divider and Oscillator	16-Dip	.65	.47	.36
HCF4060M013TR	497-1133-1-ND	14-Stage Ripple Carry Binary Counter/Divider and Oscillator	16-SOIC	.60	.44	.33
HCF4060M013TR	497-1133-2-ND	14-Stage Ripple Carry Binary Counter/Divider and Oscillator	16-SOIC	450.00/2,500		
HCF4066BEY	497-1366-5-ND	Quad Bilateral Switch for Transmission or Multiplexing of Analog or Digital Signals	14-Dip	.55	.34	.26
HCF4066M013TR	497-1134-1-ND	Quad Bilateral Switch for Transmission or Multiplexing of Analog or Digital Signals	14-SOIC	.49	.38	.23
HCF4066M013TR	497-1134-2-ND	Quad Bilateral Switch for Transmission or Multiplexing of Analog or Digital Signals	14-SOIC	320.00/2,500		
HCF4067M013TR	497-1135-1-ND	Analog Single 16-Ch. Mux/Demux	24-SOIC	1.71	1.43	1.20
HCF4067M013TR	497-1135-2-ND	Analog Single 16-Ch. Mux/Demux	24-SOIC	770.00/1,000		
HCF4069UBEY	497-1367-5-ND	Hex Inverter	14-Dip	.48	.38	.29
HCF4069UM013TR	497-1136-1-ND	Hex Inverter	14-SOIC	.49	.38	.23
HCF4069UM013TR	497-1136-2-ND	Hex Inverter	14-SOIC	320.00/2,500		
HCF4070BEY	497-1368-5-ND	Quad Exclusive OR Gate	14-Dip	.48	.35	.26
HCF4070M013TR	497-1137-1-ND	Quad Exclusive OR Gate	14-SOIC	.55	.34	.26
HCF4070M013TR	497-1137-2-ND	Quad Exclusive OR Gate	14-SOIC	362.50/2,500		
HCF4071BEY	497-1369-5-ND	Quad 2-Input OR Gate	14-Dip	.48	.38	.29
HCF4071M013TR	497-1138-1-ND	Quad 2-Input OR Gate	14-SOIC	.49	.30	.23
HCF4071M013TR	497-1138-2-ND	Quad 2-Input OR Gate	14-SOIC	320.00/2,500		
HCF4073BEY	497-1370-5-ND	Triple 3-Input AND Gate	14-Dip	.65	.52	.39
HCF4073M013TR	497-1139-1-ND	Triple 3-Input AND Gate	14-SOIC	.46	.35	.26
HCF4073M013TR	497-1139-2-ND	Triple 3-Input AND Gate	14-SOIC	297.50/2,500		
HCF4081BEY	497-1371-5-ND	Quad 2-Input AND Gate	14-Dip	.48	.38	.29
HCF4081M013TR	497-1140-1-ND	Quad 2-Input AND Gate	14-SOIC	.49	.38	.23
HCF4081M013TR	497-1140-2-ND	Quad 2-Input AND Gate	14-SOIC	320.00/2,500		
HCF4093BEY	497-1372-5-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.48	.38	.29
HCF4093M013TR	497-1141-1-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.49	.30	.23
HCF4094BEY	497-1373-5-ND	8-Stage Shift and Store Bus Register	16-Dip	.48	.38	.29
HCF4094M013TR	497-1142-1-ND	8-Stage Shift and Store Bus Register	16-SOIC	.55	.34	.26
HCF4094M013TR	497-1142-2-ND	8-Stage Shift and Store Bus Register	16-SOIC	362.50/2,500		
HCF4099BEY	497-1374-5-ND	8-Bit Addressable Latch	16-Dip	.72	.58	.44
HCF4099M013TR	497-1143-1-ND	8-Bit Addressable Latch	16-SOIC	.65	.52	.36
HCF4099M013TR	497-1143-2-ND	8-Bit Addressable Latch	16-SOIC	487.50/2,500		
HCF4511BEY	497-1375-5-ND	BCD-to-7 Seg. Latch/Decoder/Driver	16-Dip	.72	.58	.44
HCF4511M013TR	497-1144-1-ND	BCD-to-7 Seg. Latch/Decoder/Driver	16-SOIC	.60	.48	.36
HCF4511M013TR	497-1144-2-ND	BCD-to-7 Seg. Latch/Decoder/Driver	16-SOIC	450.00/2,500		
HCF4520BEY	497-1376-5-ND	Dual Binary Up Counter	16-Dip	.68	.54	.41
HCF4520M013TR	497-1145-1-ND	Dual Binary Up Counter	16-SOIC	1.09	.95	.73
HCF4520M013TR	497-1145-2-ND	Dual Binary Up Counter	16-SOIC	965.00/2,500		
HCF4536BEY	497-1377-5-ND	Programmable Timer	16-Dip	.72	.58	.44
HCF4538BEY	497-1378-5-ND	Dual Monostable Multivibrator	16-Dip	.65	.52	.36
HCF4538M013TR	497-1146-1-ND	Dual Monostable Multivibrator	16-SOIC	.48	.35	.26
HCF4538M013TR	497-1146-2-ND	Dual Monostable Multivibrator	16-SOIC	357.50/2,500		
HCF4541BEY	497-1379-5-ND	Programmable Timer	14-Dip	.55	.44	.33
HCF4541M013TR	497-1147-1-ND	Programmable Timer	14-SOIC	.55	.44	.33
HCF4541M013TR	497-1147-2-ND	Programmable Timer	14-SOIC	412.50/2,500		
HCF4555BEY	497-1380-5-ND	Dual Binary to 1-of-4 Decoder/Demux	16-Dip	.77	.62	.46
HCF4556M013TR	497-4040-1-ND	Dual Binary to 1-of-4 Decoder/Demux	16-SOIC	.50	.40	.30
HCF4556M013TR	497-4040-2-ND	Dual Binary to 1-of-4 Decoder/Demux	16-SOIC	375.00/2,500		
HCF40103BEY	497-1341-5-ND	8-Stage Presettable Sync. 8-Bit Binary Down Counter	16-Dip	1.05	.91	.70
HCF40106BEY	497-1342-5-ND	Hex Schmitt Trigger	14-Dip	.55	.34	.26
HCF40106M013TR	497-1111-1-ND	Hex Schmitt Trigger	14-SOIC	.48	.35	.26
HCF40106M013TR	497-1111-2-ND	Hex Schmitt Trigger	14-SOIC	357.50/2,500		
HCF40107BEY	497-1343-5-ND	Dual 2-Input NAND Buffer/Driver	8-Dip	.50	.40	.30
HCF40107M013TR	497-1112-1-ND	Dual 2-Input NAND Buffer/Driver	8-SOIC	.72	.58	.44
HCF40107M013TR	497-1112-2-ND	Dual 2-Input NAND Buffer/Driver	8-SOIC	570.00/2,500		
HCF40109BEY	497-1344-5-ND	Quad Low-to-High Volt. Level Shifter	16-Dip	.77	.62	.46
HCF40109M013TR	497-1113-1-ND	Quad Low-to-High Volt. Level Shifter	16-SOIC	.62	.38	.29
HCF40109M013TR	497-1113-2-ND	Quad Low-to-High Volt. Level Shifter	16-SOIC	405.00/2,500		

STMicroelectronics EVALUATION BOARDS

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
EVAL4971	497-4744-ND	Board for L4971 Step Down Switching Regulator ***NEW!***	—	10.40	—	—
EVAL4973	497-4743-ND	Board for L4973X Step Down Switching Regulator ***NEW!***	—	13.00	—	—
EVAL5970D	497-4132-ND	Evaluation Board for L5970	—	13.00	—	—
EVAL5972D	497-4741-ND	Board for L5972D DC/DC Converter ***NEW!***	—	13.00	—	—
EVAL5973AD	497-4133-ND	Evaluation Board for L5973	—	13.00	—	—
EVAL5973D	497-4134-ND	Evaluation Board for L5973	—	13.00	—	—
EVAL6206PD	497-4135-ND	Evaluation Board for L6206	—	32.50	—	—
EVAL6207N	497-4934-ND	Board for DC Motors or Stepper Motors ***NEW!***	—	26.00	—	—
EVAL6208PD	497-4136-ND	Evaluation Board for L6208	—	32.50	—	—
EVAL6235N	497-4935-ND	Board for Brushless DC Motor ***NEW!***	—	26.00	—	—
EVAL6562-250W	497-4137-ND	Evaluation Board for L6562-250	—	39.00	—	—
EVAL6569	497-4738-ND	Board for L6569 Lighting Application ***NEW!***	—	13.00	—	—
EVAL6574B	497-3823-ND	Evaluation Board for HF TL Ballast	—	26.00	—	—
EVAL6902D	497-4746-ND	Board for L6902D Battery Charger ***NEW!***	—	13.00	—	—
EVAL6920D	497-4742-ND	Board for L6920D Sync. Step-Up Converter ***NEW!***	—	13.00	—	—
EVAL6926D	497-4737-ND	Board for L6926 Step Down Reg. ***NEW!***	—	13.00	—	—
EVAL6928D	497-4745-ND	Board for L6928 Step Down Reg. ***NEW!***	—	13.00	—	—
EVALPRACTISPIN	497-4138-ND	Evaluation Board PractiSpin	—	39.00	—	—
STEVAL-IFP002V1	497-4929-ND	Board for High Side Driver, 8-Channel based on VN808 ***NEW!***	—	58.50	—	—
STEVAL-IHM001V1	497-4731-ND	Control Board for BLDC/AC Motor Control ***NEW!***	—	45.50	—	—
STEVAL-IHM002V1	497-4928-ND	Control Board for BLDC/AC Motor Control ***NEW!***	—	91.00	—	—
STEVAL-IHM003V1	497-4732-ND	Control Board for BLDC/AC Motor Control, 300W Power Driver ***NEW!***	—	45.50	—	—
STEVAL-IHM004V1	497-4733-ND	Control Board for BLDC/AC Motor Control, 1KW Power Driver ***NEW!***	—	54.60	—	—

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STMicroelectronics EVALUATION BOARDS *(Continued)*

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STEVAL-IHM005V1	497-4734-ND	Control Board for BLDC/AC Motor Control, 3KW Power Driver ***NEW!***	—	66.30	—	—
STEVAL-ISA001V1	497-4931-ND	Board for 6W Dual Output Supply using VIPer12A ***NEW!***	—	16.90	—	—
STEVAL-ISA002V1	497-4930-ND	Board for 6W Single Output Supply using VIPer12A ***NEW!***	—	16.90	—	—
STEVAL-ISA005V1	497-4932-ND	Board for 1.8W Buck Topology Power Supply with VIPer12AS ***NEW!***	—	16.90	—	—
STEVAL-ISA013V1	497-4933-ND	Board for VIPer53 Dual Output Off-Line Wide Range Power Supply ***NEW!***	—	40.30	—	—
STLED32MAT-EVAL1	497-4685-ND	Evaluation Board for LED Array	—	63.00	—	—

STMicroelectronics INTEGRATED CIRCUITS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
74H1G66STR	497-1245-1-ND	Single Bilateral Switch	SOT-23-5L	.60	.48	.36
74H1G66STR	497-1245-2-ND	Single Bilateral Switch	SOT-23-5L	540.00/3,000		
DSM2150F5V-12T6	497-1320-ND	3.3V, Digital Signal Processor System Memory	80-TQFP	11.04	10.08	7.97
DSM2180F3-90K6	497-1335-5-ND	5V, Digital Signal Processor System Memory	52-PLCC	9.36	8.55	6.76
DSM2180F3-90T6	497-1321-ND	5V, Digital Signal Processor System Memory	52-PQFP	9.36	8.55	6.76
DSM2180F3V-15K6	497-1336-5-ND	3.3V, Digital Signal Processor System Memory	52-PLCC	9.36	8.55	6.76
DSM2180F3V-15T6	497-1322-ND	3.3V, Digital Signal Processor System Memory	52-PQFP	9.36	8.55	6.76
DSM2190F4V-15K6	497-1337-5-ND	3.3V, Digital Signal Processor System Memory	52-PLCC	10.14	9.38	7.10
DSM2190F4V-15T6	497-1323-ND	3.3V, Digital Signal Processor System Memory	52-PQFP	10.14	9.38	7.10
EMIF03-SIM01F2	497-3401-1-ND	3-Line EMI Filter and ESD Protection	FlipChip	1.09	.95	.73
EMIF03-SIM01F2	497-3401-2-ND	3-Line EMI Filter and ESD Protection	FlipChip	1850.00/5,000		
EMIF10-LCD01F2	497-3402-1-ND	10-Line EMI Filter and ESD Protection	FlipChip	1.80	1.50	1.26
EMIF10-LCD01F2	497-3402-2-ND	10-Line EMI Filter and ESD Protection	FlipChip	3825.00/5,000		
ETC5054D/H013TR	497-1109-1-ND	Serial Interface Codec/Filter	16-SOIC	2.34	1.95	1.64
ETC5054D/H013TR	497-1109-2-ND	Serial Interface Codec/Filter	16-SOIC	1053.00/1,000		
ETC5054D-X/HTR	497-1108-1-ND	Serial Interface Codec/Filter	16-SOIC	2.34	1.95	1.64
ETC5054D-X/HTR	497-1108-2-ND	Serial Interface Codec/Filter	16-SOIC	1053.00/1,000		
ETC5054N/H	497-1339-5-ND	Serial Interface Codec/Filter	16-Dip	2.92	2.54	1.89
ETC5054N-X/H	497-1338-5-ND	Serial Interface Codec/Filter	16-Dip	2.92	2.54	1.89
FL-101	497-2381-ND	Flash Link Cable Programmer	—	61.36	—	—
L149H	497-1381-5-ND	4A Linear Driver	5-Pentawatt	3.24	2.82	2.10
L149V	497-3992-5-ND	4A Linear Driver	5-Pentawatt V	3.24	2.82	2.10
L165H	497-2932-5-ND	3A Power Op Amp	5-Pentawatt	3.83	3.34	2.49
L165V	497-2933-5-ND	3A Power Op Amp	5-Pentawatt	3.67	3.20	2.38
L200CH	497-2934-5-ND	Adj. Voltage/Current Regulator	5-Pentawatt	2.22	1.85	1.56
L200CV	497-1382-5-ND	Adj. Voltage/Current Regulator	5-Pentawatt	3.11	2.71	2.02
L272	497-2935-5-ND	Dual Power Op Amp	16-Dip	2.88	2.40	2.02
L272D	497-1386-5-ND	Dual Power Op Amp	16-SOIC Narrow	2.40	2.00	1.68
L272M	497-1387-5-ND	Dual Power Op Amp	8-Mini Dip	2.34	1.95	1.64
L292	497-1388-5-ND	Switch-Mode Driver for DC Motors	15V-Multiwatt	5.95	5.44	4.30
L293B	497-1389-5-ND	Push-Pull 4-Channel Driver	16-Dip	4.32	3.76	2.80
L293D	497-2936-5-ND	Push-Pull 4-Channel Driver	16-Dip	4.32	3.76	2.80
L293E	497-3622-ND	Push-Pull 4 Channel Driver	20-PowerDip	5.81	5.06	3.77
L294	497-2938-5-ND	Switch-Mode Solenoid Driver	11-Multiwatt	4.97	4.33	3.22
L295	497-1391-5-ND	Dual Switch-Mode Solenoid Driver	15-Multiwatt	7.48	6.83	5.40
L296	497-2939-5-ND	High Current Switching Regulator	15-Multiwatt	7.02	6.41	5.07
L296HT	497-3994-5-ND	High Current Switching Regulator	15-Multiwatt	8.51	7.77	6.15
L296P	497-1392-5-ND	High Current Switching Regulator	15-Multiwatt	8.63	7.88	6.23
L296PHT	497-3995-5-ND	High Current Switching Regulator	15-Multiwatt	8.86	8.09	6.40
L297D	497-3623-5-ND	Stepper Motor Controller	20-SOIC	7.13	6.51	5.15
L297D013TR	497-3623-1-ND	Stepper Motor Controller	20-SOIC	9.43	8.61	6.81
L297D013TR	497-3623-2-ND	Stepper Motor Controller	20-SOIC	5228.00/1,000		
L297/1	497-1394-5-ND	Stepper Motor Controller	20-Dip	9.89	9.03	7.14
L298HN	497-2940-5-ND	Dual Full-Bridge Driver	15-Multiwatt	6.21	5.41	4.03
L298P	497-1396-5-ND	Dual Full-Bridge Driver	20-Power SOIC	6.26	5.72	4.52
L298P013TR	497-3624-1-ND	Dual Full-Bridge Driver	20-Power SOIC	6.26	5.72	4.52
L298P013TR	497-3624-2-ND	Dual Full-Bridge Driver	20-Power SOIC	2121.60/600		
L387A	497-2941-5-ND	5V Regulator with Reset	5-Pentawatt	2.88	2.40	2.02
L482D1013TR	497-3627-1-ND	Hall-Effect Pickup Ignition Controller	16-SOIC	4.19	3.65	2.72
L482D1013TR	497-3627-2-ND	Hall-Effect Pickup Ignition Controller	16-SOIC	4960.00/2,500		
L484D1013TR	497-3628-1-ND	Magnetic Pickup Ignition Controller	16-SOIC	3.89	3.39	2.52
L484D1013TR	497-3628-2-ND	Magnetic Pickup Ignition Controller	16-SOIC	4607.50/2,500		
L603C	497-3639-ND	5V, Darlington Array	18-Dip	2.34	1.95	1.64
L2720	497-3909-5-ND	LDO Dual Power Op Amp	16-Power Dip	2.22	1.85	1.56
L2720D13TR	497-3909-1-ND	LDO Dual Power Op Amp	16-SOIC	2.67	2.23	1.87
L2720D13TR	497-3909-2-ND	LDO Dual Power Op Amp	16-SOIC	2892.50/2,500		
L2722	497-1384-5-ND	LDO Dual Power Op Amp	8-Mini Dip	2.64	2.20	1.85
L2724	497-1385-5-ND	Low Drop Dual Power Op Amp	9-Sip	2.85	2.38	2.00
L3845B	497-3625-ND	Trunk Interface	8-Mini Dip	2.40	2.00	1.68
L3845D1	497-3626-5-ND	Trunk Interface	8-SOIC	3.38	2.94	2.19
L3845D1013TR	497-3626-1-ND	Trunk Interface	8-SOIC	3.38	2.94	2.19
L3845D1013TR	497-3626-2-ND	Trunk Interface	8-SOIC	4000.00/2,500		
L4936E	497-3913-5-ND	Dual Adv. Voltage Regulator	11-Multiwatt	6.21	5.67	4.49
L4938E	497-3355-5-ND	Advanced Voltage Regulator	16-Dip	4.86	4.23	3.15
L4938ED013TR	497-3355-1-ND	Advanced Voltage Regulator	20-SOIC	4.19	3.65	2.72
L4938ED013TR	497-3355-2-ND	Advanced Voltage Regulator	20-SOIC	2062.00/1,000		
L4938EPD13TR	497-3915-1-ND	Advanced Voltage Regulator	20-Power SOIC	6.21	5.41	4.03
L4938EPD13TR	497-3915-2-ND	Advanced Voltage Regulator	20-Power SOIC	1932.00/600		
L4938ND013TR	497-3916-1-ND	Dual Multifunction Volt. Regulator	20-SOIC	4.78	4.16	3.10
L4938ND013TR	497-3916-2-ND	Dual Multifunction Volt. Regulator	20-SOIC	2354.00/1,000		
L4938NPD013TR	497-3917-1-ND	Dual Multifunction Voltage Regulator	20-Power SOIC	5.05	4.40	3.28
L4938NPD013TR	497-3917-2-ND	Dual Multifunction Voltage Regulator	20-Power SOIC	1570.80/600		
L4960H	497-2942-5-ND	2.5A Power Switching Regulator	7-Heptawatt	4.86	4.23	3.15
L4962/A	497-1407-5-ND	1.5A Power Switching Regulator	16-Power Dip	5.13	4.47	3.33
L4962E/A	497-2943-5-ND	1.5A Power Switching Regulator	7-Heptawatt	5.13	4.47	3.33
L4963D	497-1408-5-ND	1.5A Switching Regulator	20-SOIC	4.59	4.00	2.98
L4964	497-1409-5-ND	High Current Switching Regulator	15-Multiwatt	8.05	7.35	5.81
L4970A	497-1410-5-ND	10A Switching Regulator	15V-Multiwatt	13.40	12.40	9.38
L4971D	497-3357-5-ND	1.5A Step-Down Switching Regulator	16-SOIC	4.70	4.09	3.05
L4971D013TR	497-3357-1-ND	1.5A Step-Down Switching Regulator	16-SOIC	4.70	4.09	3.05
L4972AD	497-4207-5-ND	2A Step-Down Switching Regulator	20-SOIC	5.93	5.42	4.29
L4972AD013TR	497-4207-1-ND	2A Step-Down Switching Regulator	20-SOIC	6.79	6.20	4.90
L4972AD013TR	497-4207-2-ND	2A Step-Down Switching Regulator	20-SOIC	3761.00/1,000		
L4973D3.3-013TR	497-3358-1-ND	3.5A Step-Down Switching Regulator	20-SOIC	6.44	5.88	4.65
L4973D3.3-013TR	497-3358-2-ND	3.5A Step-Down Switching Regulator	20-SOIC	3570.00/1,000		
L4973D5.1	497-1412-5-ND	3.5A Step-Down Switching Regulator	20-SOIC	6.62	6.05	4.79
L4973D5.1-013TR	497-3359-1-ND	3.5A Step-Down Switching Regulator	20-SOIC	6.62	6.05	4.79
L4973D5.1-013TR	497-3359-2-ND	3.5A Step-Down Switching Regulator	20-SOIC	3672.00/1,000		
L4976D013TR	497-3360-1-ND	1A Step-Down Switching Regulator	16-SOIC	4.13	3.60	2.68
L4976D013TR	497-3360-2-ND	1A Step-Down Switching Regulator	16-SOIC	2035.00/1,000		
L4978D013TR	497-3361-1-ND	2A Step-Down Switching Regulator	16-SOIC	4.89	4.26	3.17
L4981A	497-3634-ND	Power Factor Corrector	20-Dip	5.40	4.70	3.50
L4981AD013TR	497-3635-1-ND	Power Factor Corrector	20-SOIC	5.40	4.70	3.50
L5970D013TR	497-3636-1-ND	Up to 1A Step-Down Switching Reg.	8-SOIC	2.82	2.35	1.98
L5970D013TR	497-3636-2-ND	Up to 1A Step-Down Switching Reg.	8-SOIC	3055.00/2,500		
L5971D	497-1416-5-ND	1.5A Step-Down Switching Regulator	16-SOIC	4.70	4.09	3.05
L5991AD13TR	497-3996-1-ND	Primary Controller with Standby	16-SOIC	2.16	1.80	1.52
L5991AD13TR	497-3996-2-ND	Primary Controller with Standby	16-SOIC	2340.00/2,500		
L5991D013TR	497-3997-1-ND	Primary Controller with Standby	16-SOIC	3.78	3.29	2.45
L5991D013TR	497-3997-2-ND	Primary Controller with Standby	16-SOIC	4480.00/2,500		
L5993D	497-2387-5-ND	Constant Power Controller	16-SOIC	3.78	3.29	2.45
L6201	497-1418-5-ND	DMOS Full Bridge Driver	20-SOIC	8.97	8.19	6.48
L6201PSTR	497-3641-1-ND	DMOS Full Bridge Driver	20-Power SOIC	8.79	8.03	6.35
L6204D	497-1422-5-ND	DMOS Dual Full Bridge Driver	28-SOIC	10.35	9.45	7.47
L6205D	497-3998-5-ND	DMOS Dual Full Bridge Driver	20-SOIC	10.88	9.94	7.86
L6205D013TR	497-3998-1-ND	DMOS Dual Full Bridge Driver	20-SOIC	10.88	9.94	7.86
L6205D013TR	497-3998-2-ND	DMOS Dual Full Bridge Driver	20-SOIC	6031.00/1,000		
L6205N	497-4209-5-ND	DMOS Dual Full Bridge Driver	20-Power Dip	10.88	9.94	7.86
L6205PD013TR	497-3642-1-ND	DMOS Dual Full Bridge Driver	20-Power SOIC	10.10	9.35	7.07
L6205PD013TR	497-3642-2-ND	DMOS Dual Full Bridge Driver	20-Power SOIC	3848.40/600		
L6206D	497-3999-5-ND	DMOS Dual Full Bridge Driver	24-SOIC	9.66	8.82	6.98
L6206D013TR	497-3999-1-ND	DMOS Dual Full Bridge Driver	24-SOIC	11.04	10.08	7.97
L6206D013TR	497-3999-2-ND	DMOS Dual Full Bridge Driver	24-SOIC	6120.00/1,000		
L6206PD013TR	497-3643-1-ND	DMOS Dual Full Bridge Driver	36-Power SOIC	10.94	10.12	7.66
L6206PD013TR	497-3643-2-ND	DMOS Dual Full Bridge Driver	36-Power SOIC	4168.20/600		
L6207D013TR	497-3644-1-ND	DMOS Dual Full Bridge Driver	24-SOIC	10.60	9.81	7.42
L6207D013TR	497-3644-2-ND	DMOS Dual Full Bridge Driver	24-SOIC	6625.00/1,000		
L6207N	497-3645-ND	DMOS Dual Full Bridge Driver	24-Power Dip	10.90	10.09	7.63
L6207PD013TR	497-4000-1-ND	DMOS Dual Full Bridge Driver	36-Power SOIC	11.40	10.55	7.98
L6207PD013TR	497-4000-2-ND	DMOS Dual Full Bridge Driver	36-Power SOIC	4343.40/600		
L6208D013TR	497-4001-1-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	13.30	12.31	9.31
L6208D013TR	497-4001-2-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	8313.00/1,000		
L6208PD	497-4214-5-ND	DMOS Driver for Bipolar Stepper Motor	36-Power SOIC	14.22	13.16	9.96
L6208PD013TR	497-4214-1-ND	DMOS Driver for Bipolar Stepper Motor	36-Power SOIC	14.22	13.16	9.96
L6208PD013TR	497-4214-2-ND	DMOS Driver for Bipolar Stepper Motor	36-Power SOIC	5418.00/600		
L6219	497-1426-5-ND	Stepper Motor Driver	24-Power Dip	3.11	2.71	2.02
L6219DS	497-3647-5-ND	Stepper Motor Driver	24-SOIC	3.11	2.71	2.02
L6219DS013TR	497-3647-1-ND	Stepper Motor Driver	24-SOIC	3.38	2.94	2.19
L6219DS013TR	497-3647-2-ND	Stepper Motor Driver	24-SOIC	1663.00/1,000		
L6219DSA13TR	497-4002-1-ND	Stepper Motor Driver	24-SOIC	3.65	3.18	2.37
L6219DSA13TR	497-4002-2-ND	Stepper Motor Driver	24-SOIC	1796.00/1,000		
L6219R013TR	497-4003-1-ND	Stepper Motor Driver	24-SOIC	4.32	3.76	2.80
L6219R013TR	497-4003-2-ND	Stepper Motor Driver	24-SOIC	2128.00/1,000		
L6220	497-1428-5-ND	Quad Darlington Switch	16-Power Dip	2.76	2.30	1.94
L6221AD013TR	497-4004-1-ND	Quad Darlington Switch	20-SOIC	4.73	4.12	3.07
L6221AD013TR	497-4004-2-ND	Quad Darlington Switch	20-SOIC	2328.00/1,000		
L6221AS	497-1429-5-ND	Quad Darlington Switch	16-Power Dip	2.55	2.13	1.79
L6225D	497-1430-5-ND	DMOS Dual Full Bridge Driver	20-SOIC	6.67	6.09	4.82
L6225PD	497-1431-5-ND	DMOS Dual Full Bridge Driver	20-Power SOIC	7.94	7.25	5.73
L6226DTR	497-3362-1-ND	DMOS Dual Full Bridge Driver	24-SOIC	7.36	6.72	5.32
L6226DTR	497-3362-2-ND	DMOS Dual Full Bridge Driver	24-SOIC	4080.00/1,000		
L6226PD	497-1432-5-ND	DMOS Dual Full Bridge Driver	36-Power SOIC	8.63	7.88	6.23
L6227DTR	497-3363-1-ND	DMOS Dual Full Bridge Driver with PWM Controller	24-SOIC	8.05	7.35	5.81
L6227DTR	497-3363-2-ND	DMOS Dual Full Bridge Driver with PWM Controller	24-SOIC	4463.00/1,000		
L6227N	497-3648-ND	DMOS Dual Full Bridge Driver with PWM Current Controller	24-Dip	8.05	7.35	5.81
L6227PDTR	497-4006-1-ND	DMOS Dual Full Bridge Driver with PWM Current Controller	36-Power SOIC	8.97	8.19	6.48
L6227PDTR	497-4006-2-ND	DMOS Dual Full Bridge Driver with PWM Current Controller	36-Power SOIC	3042.00/600		
L6228DTR	497-3364-1-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	9.32	8.51	6.73
L6228DTR	497-3364-2-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	5164.00/1,000		
L6228PDTR	497-4007-1-ND	DMOS Driver for Bipolar Stepper Motor	36-Power SOIC	10.86	9.92	7.84
L6228PDTR	497-4007-2-ND	DMOS Driver for Bipolar Stepper Motor	36-Power SOIC	3681.60/600		
L6229DTR	497-4008-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	10.35	9.45	7.47
L6229DTR	497-4008-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	5738.00/1,000		
L6229PDTR	497-4215-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-Power SOIC	11.22	10.25	8.11
L6229PDTR	497-4215-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-Power SOIC	3806.40/600		
L6234PD	497-2944-5-ND	3-Phase Motor Driver	20-SOIC	11.04	10.08	7.97
L6235D	497-4009-5-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	13.34	12.34	9.34
L6235D013TR	497-4009-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	13.34	12.34	9.34
L6235D013TR	497-4009-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	24-SOIC	8337.50/1,000		

(Continued)

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
L6235PD013TR	497-4010-1-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-Power SOIC	15.10	13.97	10.57
L6235PD013TR	497-4010-2-ND	DMOS Driver for 3-Phase Brushless DC Motor	36-Power SOIC	5753.40/600		
L6258E	497-1433-5-ND	PWM Controlled, High Current DMOS Universal Motor Driver	36-Power SOIC	10.35	9.45	7.47
L6258EX	497-3702-5-ND	PWM Controlled, High Current DMOS Universal Motor Driver	36-Power SOIC	10.35	9.45	7.47
L6370D013TR	497-4011-1-ND	2.5A High Side Driver Industrial Intelligent Power Switch	20-Power SOIC	10.35	9.45	7.47
L6370D013TR	497-4011-2-ND	2.5A High Side Driver Industrial Intelligent Power Switch	20-Power SOIC	3510.00/600		
L6374FP013TR	497-4012-1-ND	Industrial Quad Line Driver	20-SOIC	10.12	9.24	7.31
L6374FP013TR	497-4012-2-ND	Industrial Quad Line Driver	20-SOIC	5610.00/1,000		
L6375D013TR	497-4013-1-ND	0.5A Industrial Intelligent Power Switch	20-SOIC	3.78	3.29	2.45
L6375D013TR	497-4013-2-ND	0.5A Industrial Intelligent Power Switch	20-SOIC	1862.00/1,000		
L6376D013TR	497-3365-1-ND	0.5A High-Side Driver, Quad Intelligent Power Switch	20-Power SOIC	10.70	9.90	7.49
L6376D013TR	497-3365-2-ND	0.5A High-Side Driver, Quad Intelligent Power Switch	20-Power SOIC	4077.00/600		
L6377D	497-1434-5-ND	0.5A High-Side Driver Intelligent Power Switch	14-SOIC	5.67	4.94	3.68
L6382D	497-4802-5-ND	High Volt. Half Bridge Driver ***NEW!***	20-SOIC	2.88	2.40	2.02
L6382D5TR	497-4615-1-ND	High Voltage Half Bridge Driver	20-SOIC	3.21	2.80	2.09
L6382D5TR	497-4615-2-ND	High Voltage Half Bridge Driver	20-SOIC	1583.00/1,000		
L6384D013TR	497-4014-1-ND	High Voltage Half Bridge Driver	8-SOIC	4.05	3.53	2.63
L6384D013TR	497-4014-2-ND	High Voltage Half Bridge Driver	8-SOIC	4800.00/2,500		
L6385	497-3649-ND	High Voltage High/Low Side Driver	8-MiniDip	4.05	3.53	2.63
L6385D	497-3650-5-ND	High Voltage High/Low Side Driver	8-SOIC	2.91	2.43	2.04
L6385D013TR	497-3650-1-ND	High Voltage High/Low Side Driver	8-SOIC	2.91	2.43	2.04
L6386D	497-3651-5-ND	High Voltage High/Low Side Driver	14-SOIC	4.32	3.76	2.80
L6386D013TR	497-3651-1-ND	High Voltage High/Low Side Driver	14-SOIC	4.32	3.76	2.80
L6387DTR	497-4015-1-ND	High Voltage High/Low Side Driver	8-SOIC	4.05	3.53	2.63
L6387DTR	497-4015-2-ND	High Voltage High/Low Side Driver	8-SOIC	4800.00/2,500		
L6506	497-2945-5-ND	Current Controller for Stepping Motor	18-Dip	4.86	4.23	3.15
L6506D	497-3652-5-ND	Current Controller for Stepping Motor	20-SOIC	5.18	4.52	3.36
L6506D013TR	497-3652-1-ND	Current Controller for Stepping Motor	20-SOIC	5.18	4.52	3.36
L6506D013TR	497-3652-2-ND	Current Controller for Stepping Motor	20-SOIC	2554.00/1,000		
L6560AD	497-1438-5-ND	Power Factor Corrector	8-SOIC	1.56	1.30	1.10
L6561	497-3653-ND	Power Factor Corrector	8-MiniDip	1.56	1.30	1.10
L6561D013TRI	497-1169-1-ND	Power Factor Corrector	8-SOIC	1.56	1.30	1.10
L6562DTR	497-3366-1-ND	Transition-Mode PFC Controller	8-SOIC	1.69	1.47	1.13
L6565DTR	497-4017-1-ND	Quasi-Resonant SMPS Controller	8-SOIC	2.70	2.35	1.75
L6569	497-4217-5-ND	HV Half Bridge Driver with Oscillator	8-Dip	2.85	2.38	2.00
L6569A	497-3654-ND	HV Half Bridge Driver with Oscillator	8-MiniDip	2.55	2.13	1.79
L6569AD	497-1439-5-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2.85	2.38	2.00
L6571AD013TR	497-3367-1-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2.70	2.25	1.89
L6571AD013TR	497-3367-2-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2925.00/2,500		
L6571BD013TR	497-3655-1-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2.55	2.13	1.79
L6574D013TR	497-4018-1-ND	CFL/TL Ballast Driver Preheat and Dimming	16-SOIC	2.81	2.45	1.82
L6574D013TR	497-4018-2-ND	CFL/TL Ballast Driver Preheat and Dimming	16-SOIC	3327.50/2,500		
L6590AN	497-4807-5-ND	Fully Integrated Power Supply ***NEW!***	MiniDip	4.05	3.53	2.63
L6590D013TR	497-4019-1-ND	Fully Integrated Power Supply	16-SOIC	4.19	3.65	2.72
L6590D013TR	497-4019-2-ND	Fully Integrated Power Supply	16-SOIC	2062.00/1,000		
L6598D013TR	497-4020-1-ND	High Voltage Resonant Controller	16-SOIC	4.32	3.76	2.80
L6598D013TR	497-4020-2-ND	High Voltage Resonant Controller	16-SOIC	5120.00/2,500		
L6615D013TR	497-4023-1-ND	High/Low Side Load Share Controller	8-SOIC	2.43	2.03	1.71
L6615D013TR	497-4023-2-ND	High/Low Side Load Share Controller	8-SOIC	2632.50/2,500		
L6712ADTR	497-4218-1-ND	2-Phase Interleaved DC/DC Controller	28-SOIC	5.80	5.30	4.19
L6712ADTR	497-4218-2-ND	2-Phase Interleaved DC/DC Controller	28-SOIC	3213.00/1,000		
L6712DTR	497-4936-1-ND	2-Phase Interleaved DC/DC Controller ***NEW!***	28-SOIC	6.48	5.64	4.20
L6712DTR	497-4936-2-ND	2-Phase Interleaved DC/DC Controller ***NEW!***	28-SOIC	3192.00/1,000		
L6712QTR	497-4219-1-ND	2-Phase Interleaved DC/DC Controller	36-VFQFPN	6.48	5.64	4.20
L6712QTR	497-4219-2-ND	2-Phase Interleaved DC/DC Controller	36-VFQFPN	7680.00/2,500		
L6902D	497-3103-ND	Switching Regulator with Adj. Current Limit	8-SOIC	3.78	3.29	2.45
L6919ETR	497-4221-1-ND	5-Bit Prog. Dual-Phase Controller	28-SOIC	6.16	5.63	4.45
L6919ETR	497-4221-2-ND	5-Bit Prog. Dual-Phase Controller	28-SOIC	2128.00/1,000		
L6920DB	497-4812-5-ND	1V High Eff. Sync. Step-Up Converter ***NEW!***	8-MSOP	2.25	1.88	1.58
L6920DTR	497-3368-1-ND	1V High Eff. Sync. Step-Up Converter	8-TSSOP	2.97	2.59	1.93
L6920DTR	497-3368-2-ND	1V High Eff. Sync. Step-Up Converter	8-TSSOP	5720.00/4,000		
L6925D013TR	497-3369-1-ND	High Eff. Mono Sync. Step-Down Regulator	8-MSOP	2.55	2.13	1.79
L6926013TR	497-3370-1-ND	Battery Management	—	2.64	2.20	1.85
L6928D013TR	497-4222-1-ND	High Efficiency Mono Sync. Step-Down Regulator	8-MSOP	2.73	2.28	1.92
L6928D013TR	497-4222-2-ND	High Efficiency Mono Sync. Step-Down Regulator	8-MSOP	4732.00/4,000		
L6932D1.2	497-3371-5-ND	High Perf. 2A ULDO Linear Regulator	8-SOIC	2.52	2.10	1.77
L6995DTR	497-4223-1-ND	Step-Down Controller	20-TSSOP	5.10	4.45	3.31
L6995DTR	497-4223-2-ND	Step-Down Controller	20-TSSOP	6047.50/2,500		
L6997STR	497-4225-1-ND	Step-Down Controller	20-TSSOP	3.78	3.29	2.45
L6997STR	497-4225-2-ND	Step-Down Controller	20-TSSOP	4480.00/2,500		
L9222	497-3920-5-ND	Quad Inverting Transistor Switch	16-Power Dip	3.38	2.94	2.19
L9222D013TR	497-3921-1-ND	Quad Inverting Transistor Switch	20-SOIC	3.38	2.94	2.19
L9222D013TR	497-3921-2-ND	Quad Inverting Transistor Switch	20-SOIC	1663.00/1,000		
L9333MD-TR	497-3923-1-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.03
L9333MD-TR	497-3923-2-ND	Quad Low Side Driver	20-SOIC	1543.00/1,000		
L9337MD/TR	497-3924-1-ND	Triple Low Side Driver	20-SOIC	3.13	2.73	2.03
L9337MD/TR	497-3924-2-ND	Triple Low Side Driver	20-SOIC	1543.00/1,000		
L9338MD	497-3657-5-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.03
L9338MD/TR	497-3657-1-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.03
L9338MD/TR	497-3657-2-ND	Quad Low Side Driver	20-SOIC	1543.00/1,000		
L9339-TR	497-3925-1-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.03
L9339-TR	497-3925-2-ND	Quad Low Side Driver	20-SOIC	1543.00/1,000		
L9339MD-TR	497-3926-1-ND	Quad Low Side Driver	20-SOIC	3.13	2.73	2.03
L9339MD-TR	497-3926-2-ND	Quad Low Side Driver	20-SOIC	1543.00/1,000		
L9347PD-TR	497-3927-1-ND	Intelligent Quad Low Side Switch	36-Power SOIC	6.33	5.78	4.57
L9347PD-TR	497-3927-2-ND	Intelligent Quad Low Side Switch	36-Power SOIC	2145.00/600		
L9386MD	497-3928-5-ND	Dual Intelligent Power Low Side Switch	20-SOIC	5.27	4.59	3.42
L9613B013TR	497-3929-1-ND	Data Interface	8-SOIC	2.79	2.33	1.96
L9613B013TR	497-3929-2-ND	Data Interface	8-SOIC	3022.50/2,500		
L9615D013TR	497-3658-1-ND	CAN Bus Transceiver	8-SOIC	2.85	2.38	2.00
L9615D013TR	497-3658-2-ND	CAN Bus Transceiver	8-SOIC	3087.50/2,500		
L9616-TR	497-3930-1-ND	High Speed CAN Bus Transceiver	8-SOIC	3.24	2.82	2.10
L9616-TR	497-3930-2-ND	High Speed CAN Bus Transceiver	8-SOIC	3840.00/2,500		
L9637D013TR	497-3659-1-ND	ISO 9141 Interface	8-SOIC	2.55	2.13	1.79
L9637D013TR	497-3659-2-ND	ISO 9141 Interface	8-SOIC	2762.50/2,500		
L9638D013TR	497-3931-1-ND	LIN Bus Transceiver	8-SOIC	2.40	2.00	1.68
L9638D013TR	497-3931-2-ND	LIN Bus Transceiver	8-SOIC	2600.00/2,500		
L9651	497-3932-5-ND	Smart Quad Switch	20-Power SOIC	6.35	5.80	4.59
L9700D013TR	497-3372-1-ND	Hex Precision Limiter	8-SOIC	3.65	3.18	2.37
L9700D013TR	497-3372-2-ND	Hex Precision Limiter	8-SOIC	4320.00/2,500		
L9820D013TR	497-3934-1-ND	High Side Driver	8-SOIC	3.65	3.18	2.37
L9820D013TR	497-3934-2-ND	High Side Driver	8-SOIC	4320.00/2,500		
L9822E	497-3660-5-ND	Octal Serial Solenoid Driver	15-Multiwatt	9.78	8.93	7.06
L9822EPD013TR	497-3660-1-ND	Octal Serial Solenoid Driver	20-Power SOIC	6.44	5.88	4.65
L9822EPD013TR	497-3660-2-ND	Octal Serial Solenoid Driver	20-Power SOIC	2352.00/600		
L9825TR	497-3936-1-ND	Octal Low Side Driver Circuit for Automotive Applications	20-Power SOIC	3.38	2.94	2.19
L9825TR	497-3936-2-ND	Octal Low Side Driver Circuit for Automotive Applications	20-Power SOIC	1050.00/600		
L9903TR	497-3937-1-ND	Motor Bridge Controller	20-SOIC	6.67	6.09	4.82
L9903TR	497-3937-2-ND	Motor Bridge Controller	20-SOIC	3698.00/1,000		
L9925	497-3938-5-ND	DMOS Dual Full Bridge Driver	28-SOIC	7.59	6.93	5.48
L9997ND013TR	497-3661-1-ND	Dual Half Bridge Driver	20-SOIC	2.52	2.10	1.77
L9997ND013TR	497-3661-2-ND	Dual Half Bridge Driver	20-SOIC	1302.00/1,000		
L2726013TR	497-3621-1-ND	Low Drop Dual Power Op Amp	14-SOIC	2.70	2.25	1.89
L2726013TR	497-3621-2-ND	Low Drop Dual Power Op Amp	14-SOIC	1215.00/1,000		
L4969013TR	497-3356-1-ND	Voltage Reg. w/Fault Tolerant	20-Power SOIC	6.10	5.57	4.40
L4969013TR	497-3356-2-ND	Voltage Reg. w/Fault Tolerant	20-Power SOIC	2067.00/600		
L6201013TR	497-3640-1-ND	DMOS Full Bridge Driver	20-SOIC	8.56	7.82	6.18
L6201013TR	497-3640-2-ND	DMOS Full Bridge Driver	20-SOIC	4743.00/1,000		
L6451013TR	497-4016-1-ND	28-Channel Ink Jet Driver	44-PLCC	8.72	7.96	6.30
L6451013TR	497-4016-2-ND	28-Channel Ink Jet Driver	44-PLCC	2463.50/500		
L9669013TR	497-3933-1-ND	Fault Tolerant CAN Transceiver	14-SOIC	3.94	3.44	2.56
L9669013TR	497-3933-2-ND	Fault Tolerant CAN Transceiver	14-SOIC	4672.50/2,500		
L9935013TR	497-3373-1-ND	2-Phase Stepper Motor Driver	20-Power SOIC	6.05	5.53	4.37
L9935013TR	497-3373-2-ND	2-Phase Stepper Motor Driver	20-Power SOIC	2011.95/600		
LF347DT	497-2963-1-ND	Wide Bandwidth Quad J-FET Op Amp	14-SOIC	1.09	.95	.73
LF347DT	497-2963-2-ND	Wide Bandwidth Quad J-FET Op Amp	14-SOIC	965.00/2,500		
LF347N	497-2964-5-ND	Wide Bandwidth Quad J-FET Op Amp	14-Dip	1.05	.91	.70
LF351D	497-4041-5-ND	Wide Bandwidth Single J-FET Op Amp	8-SOIC	1.04	.83	.63
LF351DT	497-4041-1-ND	Wide Bandwidth Single J-FET Op Amp	8-SOIC	.90	.72	.54
LF351DT	497-4041-2-ND	Wide Bandwidth Single J-FET Op Amp	8-SOIC	712.50/2,500		
LF351N	497-2966-5-ND	Wide Bandwidth Single J-FET Op Amp	8-Dip	.99	.80	.60
LF353DT	497-2967-1-ND	Wide Bandwidth Dual J-FET Op Amp	8-SOIC	1.08	.87	.65
LF353DT	497-2967-2-ND	Wide Bandwidth Dual J-FET Op Amp	8-SOIC	855.00/2,500		
LF353N	497-2968-5-ND	Wide Bandwidth Dual J-FET Op Amp	8-Dip	1.08	.87	.65
LIS2L02AQ	497-4025-ND	Dual Axis Linear Accelerometer	44-QFN	10.93	9.98	7.89
LIS3L02AQ	497-4026-ND	Low Power Three Axis Linear Accelerometer	44-QFN	13.90	12.86	9.73
LK115D50-TR	497-1541-1-ND	5V, LDO Voltage Regulator	8-SOIC	1.09	.95	.73
LK115D50-TR	497-1541-2-ND	5V, LDO Voltage Regulator	8-SOIC	965.00/2,500		
LM124D	497-2969-5-ND	Low Power Quad Op Amp	14-SOIC	2.19	1.83	1.54
LM201AD	497-4042-5-ND	Single Op Amp	8-SOIC	1.58	1.37	1.05
LM201AN	497-2970-5-ND	Single Op Amp	8-Dip	1.54	1.34	1.03
LM211DT	497-1542-1-ND	Voltage Comparator	8-SOIC	.65	.52	.39
LM211DT	497-1542-2-ND	Voltage Comparator	8-SOIC	487.50/2,500		
LM217T	497-1543-5-ND	1.2V to 37V Regulator	TO-220	1.39	1.21	.93
LM219D	497-2971-5-ND	High Speed Dual Comparator	14-SOIC	1.58	1.37	1.05
LM219DT	497-1544-1-ND	High Speed Dual Comparator	14-SOIC	1.35	1.17	.90
LM219DT	497-1544-2-ND	High Speed Dual Comparator	14-SOIC	1197.50/2,500		
LM224ADT	497-1545-1-ND	Low Power Quad Op Amp	14-SOIC	.95	.76	.57
LM224ADT	497-1545-2-ND	Low Power Quad Op Amp	14-SOIC	747.50/2,500		
LM224AN	497-1546-5-ND	Low Power Quad Op Amp	14-Dip	.81	.65	.49
LM224APT	497-4043-1-ND	Low Power Quad Op Amp	14-TSSOP	.86	.69	.52
LM224APT	497-4043-2-ND	Low Power Quad Op Amp	14-TSSOP	677.50/2,500		
LM224DT	497-2972-1-ND	Low Power Quad Op Amp	14-SOIC	.77	.62	.46
LM224DT	497-2972-2-ND	Low Power Quad Op Amp	14-SOIC	605.00/2,500		
LM224N	497-1547-5-ND	Low Power Quad Op Amp	14-Dip	.55	.44	.33
LM224PT	497-1548-1-ND	Low Power Quad Op Amp	14-TSSOP	.72	.58	.44
LM224PT	497-1548-2-ND	Low Power Quad Op Amp	14-TSSOP	570.00/2,500		
LM234DT	497-1549-1-ND	3-Terminal Adj. Current Source	8-SOIC	1.61	1.40	1.08
LM234DT	497-1549-2-ND	3-Terminal Adj. Current Source	8-SOIC	1430.00/2,500		
LM239ADT	497-1550-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.77	.62	.46
LM239ADT	497-1550-2-ND	Low Power Quad Voltage Comparator	14-SOIC	605.00/2,500		
LM239AN	497-1551-5-ND	Low Power Quad Voltage Comparator	14-Dip	1.08	.87	.65
LM239DT	497-2973-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.95	.76	.57
LM239DT	497-2973-2-ND	Low Power Quad Voltage Comparator	14-SOIC	747.50/2,500		
LM239N	497-1552-5-ND	Low Power Quad Voltage Comparator	14-Dip	.55	.44	.33
LM239PT	497-4044-1-ND	Low Power Quad Volt. Comparator	14-TSSOP	.65	.52	.39
LM239PT	497-4044-2-ND	Low Power Quad Volt. Comparator	14-TSSOP	487.50/2,500		
LM258AST	497-4778-1-ND	Low Power Dual Op Amp ***NEW!***	8-Mini SOIC	.70	.56	.42
LM258AST	497-4778-2-ND	Low Power Dual Op Amp ***NEW!***	8-Mini SOIC	840.00/4,000		
LM258DT	497-1553-1-ND	Low Power Dual Op Amp	8-SOIC	.55	.43	.26
LM258DT	497-1553-2-ND	Low Power Dual Op Amp	8-SOIC	362.50/2,500		
LM258N	497-1554-5-ND	Low Power Dual Op Amp	8-Dip	.55	.44	.33
LM293ADT	497-4264-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.99	.80	.60
LM293ADT	497-4264-2-ND	Low Power Dual Voltage Comparator	8-SOIC	785.00/2,500		
LM293DT	497-1566-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.55	.44	.33
LM293DT	497-1566-2-ND	Low Power Dual Voltage Comparator	8-SOIC	412.50/2,500		

(Continued)

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STMicroelectronics	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	10	100
LM293N	497-1567-5-ND	Low Power Dual Voltage Comparator	8-Dip	.55	.44	.33
LM293ST	497-4265-1-ND	Low Power Dual Volt. Comparator	8-Mini SOIC	.72	.58	.44
LM293ST	497-4265-2-ND	Low Power Dual Volt. Comparator	8-Mini SOIC	912.00/4,000		
LM301AN	497-1568-5-ND	Single Op Amp	8-Dip	1.05	.91	.70
LM311DT	497-1569-1-ND	Voltage Comparator	8-SOIC	.55	.43	.31
LM311DT	497-1569-2-ND	Voltage Comparator	8-SOIC	362.50/2,500		
LM311N	497-1570-5-ND	Voltage Comparator	8-Dip	.55	.43	.26
LM317D2T	497-1571-5-ND	1.2V to 37V Adjustable Regulator	D2-PAK	1.35	1.17	.90
LM317D2T-TR	497-1571-1-ND	1.2V to 37V Adjustable Regulator	D2-PAK	.99	.80	.60
LM317D2T-TR	497-1571-2-ND	1.2V to 37V Adjustable Regulator	D2-PAK	341.00/1,000		
LM317LD13TR	497-1572-1-ND	1.2V to 37V Adjustable Regulator	8-SOIC	.60	.48	.36
LM317LD13TR	497-1572-2-ND	1.2V to 37V Adjustable Regulator	8-SOIC	450.00/2,500		
LM317LZ	497-1573-5-ND	1.2V to 37V Adjustable Regulator	TO-92	.70	.56	.42
LM317LZ-AP	497-4266-1-ND	1.2V to 37V Adjustable Regulator	TO-92	.72	.58	.44
LM317LZ-AP	497-4266-3-ND	1.2V to 37V Adjustable Regulator	TO-92	496.00/2,000		
LM317LZ-TR	497-1573-1-ND	1.2V to 37V Adjustable Regulator	TO-92	.65	.52	.39
LM317LZ-TR	497-1573-2-ND	1.2V to 37V Adjustable Regulator	TO-92	416.00/2,000		
LM317MDT-TR	497-1574-1-ND	1.2V to 37V Adjustable Regulator	D-PAK	.77	.62	.46
LM317MDT-TR	497-1574-2-ND	1.2V to 37V Adjustable Regulator	D-PAK	605.00/2,500		
LM317T	497-1575-5-ND	1.2V to 37V Adjustable Regulator	TO-220	.75	.60	.41
LM319DT	497-1576-1-ND	High Speed Dual Comparator	14-SOIC	1.04	.83	.58
LM319DT	497-1576-2-ND	High Speed Dual Comparator	14-SOIC	820.00/2,500		
LM319N	497-1577-5-ND	High Speed Dual Comparator	14-Dip	1.04	.83	.63
LM323K	497-2976-5-ND	5V, 3A Positive Voltage Regulator	TO-3	4.70	4.09	3.05
LM324ADT	497-1578-1-ND	Low Power Quad Op Amp	14-SOIC	.55	.43	.26
LM324ADT	497-1578-2-ND	Low Power Quad Op Amp	14-SOIC	362.50/2,500		
LM324AN	497-1579-5-ND	Low Power Quad Op Amp	14-Dip	.55	.34	.26
LM324DT	497-1580-1-ND	Low Power Quad Op Amp	14-SOIC	.49	.38	.23
LM324DT	497-1580-2-ND	Low Power Quad Op Amp	14-SOIC	320.00/2,500		
LM324N	497-1581-5-ND	Low Power Quad Op Amp	14-Dip	.55	.43	.26
LM334Z	497-1582-ND	3-Terminal Adjustable Current Source	TO-92	1.24	1.08	.83
LM335ADT	497-4047-1-ND	Precision Temperature Sensor	8-SOIC	1.61	1.40	1.08
LM335ADT	497-4047-2-ND	Precision Temperature Sensor	8-SOIC	1430.00/2,500		
LM335AZ	497-2977-5-ND	Precision Temperature Sensor	TO-92	1.54	1.34	1.03
LM335D	497-1583-5-ND	Precision Temperature Sensor	8-SOIC	1.46	1.27	.98
LM335DT	497-1583-1-ND	Precision Temperature Sensor	8-SOIC	1.34	1.16	.90
LM335DT	497-1583-2-ND	Precision Temperature Sensor	8-SOIC	1187.50/2,500		
LM335Z	497-1584-ND	Precision Temperature Sensor	TO-92	1.20	1.04	.80
LM337SP	497-1585-5-ND	3-Terminal Adjustable Neg. Volt. Reg.	TO-220	1.35	1.17	.90
LM338K	497-2979-5-ND	3-Terminal 5A Adj. Voltage Regulator	TO-3	8.37	7.65	6.05
LM339ADT	497-1586-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.55	.44	.33
LM339ADT	497-1586-2-ND	Low Power Quad Voltage Comparator	14-SOIC	412.50/2,500		
LM339AN	497-1587-5-ND	Low Power Quad Voltage Comparator	14-Dip	.55	.44	.33
LM339DT	497-1588-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.55	.43	.31
LM339DT	497-1588-2-ND	Low Power Quad Voltage Comparator	14-SOIC	362.50/2,500		
LM339N	497-1589-5-ND	Low Power Quad Voltage Comparator	14-Dip	.55	.43	.26
LM339PT	497-4048-1-ND	Low Power Quad Volt. Comparator	14-TSSOP	.50	.40	.30
LM339PT	497-4048-2-ND	Low Power Quad Volt. Comparator	14-TSSOP	375.00/2,500		
LM346N	497-2980-5-ND	Programmable Quad Bipolar Op Amp	16-Dip	1.86	1.55	1.31
LM348DT	497-4049-1-ND	Four UA741 Quad Bipolar Op Amp	14-SOIC	.90	.72	.54
LM348DT	497-4049-2-ND	Four UA741 Quad Bipolar Op Amp	14-SOIC	712.50/2,500		
LM348N	497-2981-5-ND	Four UA741 Quad Bipolar Op Amp	14-Dip	1.08	.87	.65
LM350K	497-2982-5-ND	3-Terminal 3A Adj. Voltage Regulator	TO-3	6.56	5.99	4.74
LM358ADT	497-1590-1-ND	Low Power Dual Op Amp	8-SOIC	.48	.38	.29
LM358ADT	497-1590-2-ND	Low Power Dual Op Amp	8-SOIC	357.50/2,500		
LM358AN	497-2983-5-ND	Low Power Dual Op Amp	8-Dip	.86	.69	.52
LM358DT	497-1591-1-ND	Low Power Dual Op Amp	8-SOIC	.49	.38	.23
LM358DT	497-1591-2-ND	Low Power Dual Op Amp	8-SOIC	320.00/2,500		
LM358N	497-1592-5-ND	Low Power Dual Op Amp	8-Dip	.55	.43	.26
LM393ADT	497-4267-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.90	.72	.54
LM393ADT	497-4267-2-ND	Low Power Dual Voltage Comparator	8-SOIC	712.50/2,500		
LM393DT	497-1593-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.49	.38	.23
LM393DT	497-1593-2-ND	Low Power Dual Voltage Comparator	8-SOIC	320.00/2,500		
LM393N	497-1594-5-ND	Low Power Dual Voltage Comparator	8-Dip	.55	.43	.26
LM723CD	497-1595-5-ND	High Precision Voltage Regulator	14-SOIC	.86	.69	.52
LM723CD013TR	497-1595-1-ND	High Precision Voltage Regulator	14-SOIC	.90	.72	.54
LM723CD013TR	497-1595-2-ND	High Precision Voltage Regulator	14-SOIC	712.50/2,500		
LM723CN	497-1596-5-ND	High Precision Voltage Regulator	14-Dip	.72	.58	.44
LM723N	497-4268-5-ND	High Precision Voltage Regulator	14-Dip	.99	.80	.60
LM833DT	497-1597-1-ND	Low Noise Dual Op Amp	8-SOIC	.94	.82	.63
LM833DT	497-1597-2-ND	Low Noise Dual Op Amp	8-SOIC	832.50/2,500		
LM833N	497-1598-5-ND	Low Noise Dual Op Amp	8-Dip	1.08	.87	.65
LM2901DT	497-1555-1-ND	Low Power Quad Voltage Comparator	14-SOIC	.55	.43	.31
LM2901DT	497-1555-2-ND	Low Power Quad Voltage Comparator	14-SOIC	362.50/2,500		
LM2901N	497-1556-5-ND	Low Power Quad Voltage Comparator	14-Dip	.55	.43	.26
LM2902DT	497-1557-1-ND	Low Power Quad Op Amp	14-SOIC	.55	.43	.31
LM2902DT	497-1557-2-ND	Low Power Quad Op Amp	14-SOIC	362.50/2,500		
LM2902N	497-1558-5-ND	Low Power Quad Op Amp	14-Dip	.55	.43	.26
LM2902PT	497-4045-1-ND	Low Power Quad Op Amp	14-TSSOP	.60	.48	.36
LM2902PT	497-4045-2-ND	Low Power Quad Op Amp	14-TSSOP	450.00/2,500		
LM2903DT	497-1559-1-ND	Low Power Dual Voltage Comparator	8-SOIC	.55	.43	.31
LM2903DT	497-1559-2-ND	Low Power Dual Voltage Comparator	8-SOIC	362.50/2,500		
LM2903HDT	497-4260-1-ND	Low Power Dual Voltage Comparator	8-SOIC	1.13	.98	.75
LM2903HDT	497-4260-2-ND	Low Power Dual Voltage Comparator	8-SOIC	997.50/2,500		
LM2903N	497-1560-5-ND	Low Power Dual Voltage Comparator	8-Dip	.55	.43	.26
LM2904DT	497-1561-1-ND	Low Power Dual Op Amp	8-SOIC	.55	.43	.31
LM2904DT	497-1561-2-ND	Low Power Dual Op Amp	8-SOIC	362.50/2,500		
LM2904N	497-1562-5-ND	Low Power Dual Op Amp	8-Dip	.55	.43	.26
LM2904PT	497-4046-1-ND	Low Power Dual Op Amp	8-TSSOP	.43	.34	.26
LM2904PT	497-4046-2-ND	Low Power Dual Op Amp	8-TSSOP	580.00/4,000		
LM2904WHDT	497-4261-1-ND	Low Power Dual Op Amp	8-SOIC	1.35	1.17	.90
LM2904WHDT	497-4261-2-ND	Low Power Dual Op Amp	8-SOIC	1197.50/2,500		
LMV321ILT	497-4941-1-ND	LP In/Out R/R Op Amp ***NEW!***	SOT-23-5	.94	.82	.63
LMV321ILT	497-4941-2-ND	LP In/Out R/R Op Amp ***NEW!***	SOT-23-5	999.00/3,000		
LMV321RILT	497-4942-1-ND	LP In/Out R/R Op Amp ***NEW!***	SOT-23-5	.94	.82	.63
LMV321RILT	497-4942-2-ND	LP In/Out R/R Op Amp ***NEW!***	SOT-23-5	999.00/3,000		
LMV324IDT	497-4943-1-ND	LP Quad In/Out R/R Op Amp ***NEW!***	14-SOIC	.94	.82	.63
LMV324IDT	497-4943-2-ND	LP Quad In/Out R/R Op Amp ***NEW!***	14-SOIC	832.50/2,500		
LMV324IPT	497-4944-1-ND	LP Quad In/Out R/R Op Amp ***NEW!***	14-TSSOP	1.01	.88	.68
LMV324IPT	497-4944-2-ND	LP Quad In/Out R/R Op Amp ***NEW!***	14-TSSOP	897.50/2,500		
LMV358IDT	497-4945-1-ND	LP Quad In/Out R/R Op Amp ***NEW!***	8-SOIC	.98	.85	.65
LMV358IDT	497-4945-2-ND	LP Quad In/Out R/R Op Amp ***NEW!***	8-SOIC	865.00/2,500		
LMV358IPT	497-4946-1-ND	LP Quad In/Out R/R Op Amp ***NEW!***	8-TSSOP	.98	.85	.65

STMicroelectronics	Digi-Key			Price Each★		
Part No.	Part No.	Description	Pkg.	1	10	100
LMV358IPT	497-4946-2-ND	LP Quad In/Out R/R Op Amp ***NEW!***	8-TSSOP	1384.00/4,000		
LNBH21PD-TR	497-4270-1-ND	LNB Supply/Control IC	20-Power SOIC	4.32	3.76	2.80
LNBH21PD-TR	497-4270-2-ND	LNB Supply/Control IC	20-Power SOIC	1344.00/600		
LNBH221PD-TR	497-4271-1-ND	Dual LNB Supply/Control IC	36-Power SOIC	5.81	5.06	3.77
LNBH221PD-TR	497-4271-2-ND	Dual LNB Supply/Control IC	36-Power SOIC	1806.00/600		
LNBP21D2-TR	497-4272-1-ND	LNBP Supply/Control IC	20-SOIC	3.92	3.41	2.54
LNBP21D2-TR	497-4272-2-ND	LNBP Supply/Control IC	20-SOIC	1929.00/1,000		
LNBP21PD-TR	497-4273-1-ND	LNBP Supply/Control IC	20-Power SOIC	4.19	3.65	2.72
LNBP21PD-TR	497-4273-2-ND	LNBP Supply/Control IC	20-Power SOIC	1302.00/600		
MC1458DT	497-1948-1-ND	High Performance Dual Op Amp	8-SOIC	.70	.56	.42
MC1458DT	497-1948-2-ND	High Performance Dual Op Amp	8-SOIC	525.00/2,500		
MC1458IN	497-1949-5-ND	High Performance Dual Op Amp	8-Dip	.72	.58	.44
MC1488D1013TR	497-1950-1-ND	RS-232C Quad Line Driver	14-SOIC	.70	.56	.42
MC1488D1013TR	497-1950-2-ND	RS-232C Quad Line Driver	14-SOIC	525.00/2,500		
MC1489D1013TR	497-1951-1-ND	Quad Line Receiver	14-SOIC	.70	.56	.42
MC1489D1013TR	497-1951-2-ND	Quad Line Receiver	14-SOIC	525.00/2,500		
MC3303DT	497-4050-1-ND	Low Power Quad Bipolar Op Amp	14-SOIC	1.01	.88	.68
MC3303DT	497-4050-2-ND	Low Power Quad Bipolar Op Amp	14-SOIC	897.50/2,500		
MC3403D	497-1959-5-ND	Low Power Quad Bipolar Op Amp	14-SOIC	.98	.85	.65
MC3403DT	497-1959-1-ND	Low Power Quad Bipolar Op Amp	14-SOIC	.86	.69	.52
MC3403DT	497-1959-2-ND	Low Power Quad Bipolar Op Amp	14-SOIC	677.50/2,500		
MC4558CDT	497-4051-1-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	.60	.48	.36
MC4558CDT	497-4051-2-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	450.00/2,500		
MC4558CN	497-1960-5-ND	Wide Bandwidth Dual Bipolar Op Amp	8-Dip	.65	.52	.39
MC4558IDT	497-1961-1-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	.99	.80	.60
MC4558IDT	497-1961-2-ND	Wide Bandwidth Dual Bipolar Op Amp	8-SOIC	785.00/2,500		
MC33078DT	497-1952-1-ND	Low Noise Dual Op Amp	8-SOIC	.99	.80	.60
MC33078DT	497-1952-2-ND	Low Noise Dual Op Amp	8-SOIC	785.00/2,500		
MC33078N	497-1953-5-ND	Low Noise Dual Op Amp	8-Dip	1.04	.83	.58
MC33079DT	497-1954-1-ND	Low Noise Quad Op Amp	14-SOIC	1.01	.88	.68
MC33079DT	497-1954-2-ND	Low Noise Quad Op Amp	14-SOIC	897.50/2,500		
MC33079N	497-1955-5-ND	Low Noise Quad Op Amp	14-Dip	1.24	1.08	.83
MC33171D	497-1956-5-ND	Low Power Single Bipolar Op Amp	8-SOIC	1.09	.95	.73
MC33171DT	497-1956-1-ND	Low Power Single Bipolar Op Amp	8-SOIC	1.09	.95	.73
MC33171DT	497-1956-2-ND	Low Power Single Bipolar Op Amp	8-SOIC	965.00/2,500		
MC33172DT	497-1957-1-ND	Low Power Dual Bipolar Op Amp	8-SOIC	.98	.85	.65
MC33172DT	497-1957-2-ND	Low Power Dual Bipolar Op Amp	8-SOIC	865.00/2,500		
MC33174DT	497-1958-1-ND	Low Power Quad Bipolar Op Amp	14-SOIC	.98	.85	.65
MC33174DT	497-1958-2-ND	Low Power Quad Bipolar Op Amp	14-SOIC	865.00/2,500		
MC34063ACD	497-2989-5-ND	DC/DC Converter Control Circuit	8-SOIC	1.43	1.24	.95
MC34063ECN	497-4280-5-ND	DC/DC Converter Control Circuit	8-Dip	.77	.62	.46
NE555D	497-1962-5-ND	General Purpose Single Bipolar Timer	8-SOIC	.51	.39	.29
NE555DT	497-1962-1-ND	General Purpose Single Bipolar Timer	8-SOIC	.49	.38	.23
NE555DT	497-1962-2-ND	General Purpose Single Bipolar Timer	8-SOIC	320.00/2,500		
NE555N	497-1963-5-ND	General Purpose Single Bipolar Timer	8-Dip	.55	.43	.26
NE556DT	497-1964-1-ND	General Purpose Dual Bipolar Timer	14-SOIC	.55	.44	.33
NE556DT	497-1964-2-ND	General Purpose Dual Bipolar Timer	14-SOIC	412.50/2,500		
NE556N	497-1965-5-ND	General Purpose Dual Bipolar Timer	14-Dip	.55	.44	.33
OP07CN	497-2991-5-ND	Bipolar Op Amp	8-Dip	1.43	1.24	.95
PBL3717A	497-1966-5-ND	Stepper Motor Driver	16-Dip	2.40	2.00	1.68
SA555DT	497-2035-1-ND	General Purpose Single Bipolar Timer	8-SOIC	.86	.69	.52
SA555DT	497-2035-2-ND	General Purpose Single Bipolar Timer	8-SOIC	677.50/2,500		
SA555N	497-2036-5-ND	General Purpose Single Bipolar Timer	8-Dip	.77	.62	.46
SA556DT	497-2037-1-ND	General Purpose Dual Bipolar Timer	14-SOIC	.86	.69	.52
SA556DT	497-2037-2-ND	General Purpose Dual Bipolar Timer	14-SOIC	677.50/2,500		
SERC816	497-3662-ND	Sercos Interface Controller	100-PQFP	32.38	27.75	24.61
SERC816/TR	497-3374-ND	Sercos Interface Controller	100-PQFP	32.38	27.75	24.61
SG2525AN	497-2038-5-ND	Regulator Pulse Width Modulator	16-Dip	1.77	1.48	1.24
SG2525AP013TR	497-2039-1-ND	Regulator Pulse Width Modulator	16-SOIC	1.77	1.48	1.24
SG2525AP013TR	497-2039-2-ND	Regulator Pulse Width Modulator	16-SOIC	1917.50/2,500		
SG3524N	497-2992-5-ND	Regulator Pulse Width Modulator	16-Dip	1.77	1.48	1.24
SG3524P013TR	497-2040-1-ND	Regulator Pulse Width Modulator	16-SOIC	1.58	1.37	1.05
SG3524P013TR	497-2040-2-ND	Regulator Pulse Width Modulator	16-SOIC	1397.50/2,500		
SG3525AN	497-2041-5-ND	Regulator Pulse Width Modulator	16-Dip	1.77	1.48	1.24
ST1S03PMR	497-4304-1-ND	1.5A, 1.5MHz Adj., Step-Down Switching Regulator	6-DFN	1.92	1.60	1.35
ST1S03PMR	497-4304-2-ND	1.5A, 1.5MHz Adj., Step-Down Switching Regulator	6-DFN	2496.00/3,000		
ST2L01K5	497-2069-5-ND	Dual Voltage Regulator	SPAK-5	2.31	1.93	1.62
ST2L01K5R	497-2069-1-ND	Dual Voltage Regulator	SPAK-5L	2.31	1.93	1.62
ST2L01K5R	497-2069-2-ND	Dual Voltage Regulator	SPAK-5L	2080.00/2,000		
ST2L05R3300K5	497-3583-1-ND	3.3V/Adj. Dual Voltage Regulator	5-SPAK	1.92	1.60	1.35
ST2L05R3300K5	497-3583-2-ND	3.3V/Adj. Dual Voltage Regulator	5-SPAK	1728.00/2,000		
ST3L01K7R	497-4313-1-ND	2.6V, 3.3V, 8V, Triple Voltage Reg.	7-SPAK	2.79	2.33	1.96
ST3L01K7R	497-4313-2-ND	2.6V, 3.3V, 8V, Triple Voltage Reg.	7-SPAK	2512.00/2,000		
ST4G3234BJR	497-4622-1-ND	4-Bit Dual Supply Bus Buffer Level Translator	Flip Chip	1.31	1.14	.88
ST4G3234BJR	497-4622-2-ND	4-Bit Dual Supply Bus Buffer Level Translator	Flip Chip	2230.00/5,000		
ST4G3235BJR	497-4623-1-ND	4-Bit Dual Supply Bus Buffer Level Translator	Flip Chip	1.31	1.14	.88
ST4G3235BJR	497-4623-2-ND	4-Bit Dual Supply Bus Buffer Level Translator	Flip Chip	1864.00/4,000		
ST5R25MTR	497-4314-1-ND	2.5V, Micropower VFM Step Up DC/DC Converter	SOT-23-5L	1.01	.88	.68
ST5R25MTR	497-4314-2-ND	2.5V, Micropower VFM Step Up DC/DC Converter	SOT-23-5L	1077.00/3,000		
ST26C31BDR	497-2063-1-ND	Tri-State CMOS Quad Diff. Line Driver	16-SOIC	1.08	.87	.65
ST26C31BDR	497-2063-2-ND	Tri-State CMOS Quad Diff. Line Driver	16-SOIC	855.00/2,500		
ST26C31BN	497-2064-5-ND	Tri-State CMOS Quad Diff. Line Driver	16-Dip	1.08	.87	.65
ST26C31BTR	497-2065-1-ND	Tri-St. CMOS Quad Diff. Line Driver	16-TSSOP	1.01	.88	.68
ST26C31BTR	497-2065-2-ND	Tri-St. CMOS Quad Diff. Line Driver	16-TSSOP	897.50/2,500		
ST26C32ABDR	497-2066-1-ND	Tri-St. CMOS Quad Diff. Line Receiver	16-SOIC	1.08	.87	.65
ST26C32ABDR	497-2066-2-ND	Tri-St. CMOS Quad Diff. Line Receiver	16-SOIC	855.00/2,500		
ST26C32ABN	497-2067-5-ND	Tri-St. CMOS Quad Diff. Line Receiver	16-Dip	1.01	.88	.68
ST26C32ABTR	497-2068-1-ND	Tri-St. CMOS Quad Diff. Line Recvr	16-TSSOP	1.13	.98	.75
ST26C32ABTR	497-2068-2-ND	Tri-St. CMOS Quad Diff. Line Recvr	16-TSSOP	997.50/2,500		
ST75C176BDR	497-2125-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	2.84	2.47	1.84

(Continued)

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
ST75C176BDR	497-2125-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	3360.00/2,500		
ST202BDR	497-2048-1-ND	5V, RS-232 Multi-Channel Driver and Receiver	16-SOIC	1.80	1.50	1.26
ST202BDR	497-2048-2-ND	5V, RS-232 Multi-Channel Driver and Receiver	16-SOIC	1097.50/2,500		
ST202BTR	497-2049-1-ND	5V, RS-232 Multi-Channel Driver and Receiver	16-TSSOP	1.80	1.50	1.26
ST202BTR	497-2049-2-ND	5V, RS-232 Multi-Channel Driver and Receiver	16-TSSOP	1097.50/2,500		
ST202EBD	497-2050-5-ND	5V, RS-232 Transceiver	16-SOIC	1.95	1.63	1.37
ST202EBN	497-2051-5-ND	5V, RS-232 Transceiver	16-Dip	1.61	1.40	1.08
ST202ECD	497-3727-5-ND	5V, RS-232 Transceiver	16-SOIC	1.95	1.63	1.37
ST202ECDR	497-3727-1-ND	5V, RS-232 Transceiver	16-SOIC	1.73	1.50	1.15
ST202ECDR	497-3727-2-ND	5V, RS-232 Transceiver	16-SOIC	1530.00/2,500		
ST202ECN	497-3009-5-ND	5V, RS-232 Transceiver	16-Dip	1.95	1.63	1.37
ST202ECWR	497-2052-1-ND	5V, RS-232 Transceiver	16-SOIC	1.95	1.63	1.37
ST202ECWR	497-2052-2-ND	5V, RS-232 Transceiver	16-SOIC	624.00/1,000		
ST232ABDR	497-2054-1-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.65	1.38	1.16
ST232ABDR	497-2054-2-ND	5V, RS-232 Driver/Receiver	16-SOIC	1197.50/2,500		
ST232ABN	497-2055-5-ND	5V, RS-232 Driver/Receiver	16-Dip	1.39	1.21	.93
ST232ABWR	497-2056-1-ND	5V, RS-232 Driver/Receiver	16-WSOIC	1.65	1.38	1.16
ST232ABWR	497-2056-2-ND	5V, RS-232 Driver/Receiver	16-WSOIC	522.00/1,000		
ST232ACD	497-3728-5-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.76	1.53	1.17
ST232ACDR	497-3728-1-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.73	1.50	1.15
ST232ACDR	497-3728-2-ND	5V, RS-232 Driver/Receiver	16-SOIC	1530.00/2,500		
ST232ACN	497-3011-5-ND	5V, RS-232 Driver/Receiver	16-Dip	1.76	1.53	1.17
ST232ACW	497-3012-5-ND	5V, RS-232 Driver/Receiver	16-SOIC	1.65	1.38	1.16
ST232BD	497-3013-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC	1.95	1.63	1.37
ST232BN	497-3014-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-Dip	1.95	1.63	1.37
ST232BTR	497-2057-1-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-TSSOP	1.46	1.27	.98
ST232BTR	497-2057-2-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-TSSOP	1297.50/2,500		
ST232BW	497-3729-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC	2.10	1.75	1.47
ST232BWR	497-3729-1-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC	2.10	1.75	1.47
ST232BWR	497-3729-2-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC	945.00/1,000		
ST232CD	497-3016-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC	1.95	1.63	1.37
ST232CN	497-3017-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-Dip	1.95	1.63	1.37
ST232CW	497-3018-5-ND	5V, RS-232 Multi-Channel Driver/Receiver	16-SOIC	1.95	1.63	1.37
ST232EBDR	497-2058-1-ND	5V, RS-232 Transceiver	16-SOIC	1.59	1.33	1.12
ST232EBDR	497-2058-2-ND	5V, RS-232 Transceiver	16-SOIC	1722.50/2,500		
ST232EBN	497-2059-5-ND	5V, RS-232 Transceiver	16-Dip	1.99	1.73	1.33
ST232EBTR	497-2060-1-ND	5V, RS-232 Transceiver	16-TSSOP	1.59	1.33	1.12
ST232EBTR	497-2060-2-ND	5V, RS-232 Transceiver	16-TSSOP	1722.50/2,500		
ST232EBWR	497-2061-1-ND	5V, RS-232 Transceiver	16-SOIC	1.59	1.33	1.12
ST232EBWR	497-2061-2-ND	5V, RS-232 Transceiver	16-SOIC	716.00/1,000		
ST232ECN	497-3019-5-ND	5V, RS-232 Transceiver	16-Dip	1.95	1.63	1.37
ST232ECWR	497-2062-1-ND	5V, RS-232 Transceiver	16-SOIC	1.95	1.63	1.37
ST232ECWR	497-2062-2-ND	5V, RS-232 Transceiver	16-SOIC	878.00/1,000		
ST485ABDR	497-2082-1-ND	HS, LP, RS-485/RS-422 Transceiver	8-SOIC	3.38	2.94	2.19
ST485ABDR	497-2082-2-ND	HS, LP, RS-485/RS-422 Transceiver	8-SOIC	4000.00/2,500		
ST485BDR	497-3733-1-ND	5V, Low Power, RS-485/RS-422 Transceiver	8-SOIC	1.54	1.34	1.03
ST485BDR	497-3733-2-ND	5V, Low Power, RS-485/RS-422 Transceiver	8-SOIC	1362.50/2,500		
ST485CDR	497-3734-1-ND	5V, Low Power, RS-485/RS-422 Transceiver	8-SOIC	1.35	1.17	.90
ST485CDR	497-3734-2-ND	5V, Low Power, RS-485/RS-422 Transceiver	8-SOIC	1197.50/2,500		
ST485EBDR	497-2083-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	3.92	3.41	2.54
ST485EBDR	497-2083-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	1397.50/2,500		
ST485EBN	497-2084-5-ND	LP, RS-485/RS-422 Transceiver	8-Dip	1.50	1.25	1.05
ST485ECDR	497-3735-1-ND	5V, Low Power, RS-485/RS-422 Transceiver, ESD Protection	8-SOIC	3.51	3.06	2.28
ST485ECDR	497-3735-2-ND	5V, Low Power, RS-485/RS-422 Transceiver, ESD Protection	8-SOIC	4160.00/2,500		
ST485ERBDR	497-2085-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	4.73	4.12	3.07
ST485ERBDR	497-2085-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	5600.00/2,500		
ST485ERBN	497-2086-5-ND	LP, RS-485/RS-422 Transceiver	8-Dip	4.73	4.12	3.07
ST485ERXDR	497-2087-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	4.32	3.76	2.80
ST485ERXN	497-2088-5-ND	LP, RS-485/RS-422 Transceiver	8-Dip	4.32	3.76	2.80
ST485EXDR	497-2089-1-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	4.32	3.76	2.80
ST485EXDR	497-2089-2-ND	LP, RS-485/RS-422 Transceiver	8-SOIC	5120.00/2,500		
ST490ABDR	497-2091-1-ND	LP, HS, RS-485/RS-422 Transceiver	8-SOIC	2.10	1.75	1.47
ST490ABDR	497-2091-2-ND	LP, HS, RS-485/RS-422 Transceiver	8-SOIC	2275.00/2,500		
ST491ACDR	497-2889-1-ND	Low Power, High Speed, RS-485/RS-422 Transceiver	14-SOIC	2.40	2.00	1.68
ST491ACDR	497-2889-2-ND	Low Power, High Speed, RS-485/RS-422 Transceiver	14-SOIC	2600.00/2,500		
ST491ACN	497-4652-5-ND	Low Power High Speed, RS-485/RS-422 Transceiver ***NEW!***	14-Dip	1.89	1.58	1.33
ST619LBD	497-3881-5-ND	5V, DC-DC Converter Regulated Charge Pump	8-SOIC	2.07	1.73	1.45
ST619LBDR	497-3881-1-ND	5V, DC-DC Converter Regulated Charge Pump	8-SOIC	2.07	1.73	1.45
ST619LBDR	497-3881-2-ND	5V, DC-DC Converter Regulated Charge Pump	8-SOIC	2242.50/2,500		
ST619LBN	497-3882-ND	5V, DC-DC Converter Regulated Charge Pump	8-Dip	2.07	1.73	1.45
ST662ABD	497-2104-5-ND	5V to 12V, .03A DC/DC Converter	8-SOIC	2.25	1.88	1.58
ST730ACDTR	497-4315-1-ND	5V Step Down Current Mode PWM DC/DC Converter	8-SOIC	1.50	1.30	1.00
ST730ACDTR	497-4315-2-ND	5V Step Down Current Mode PWM DC/DC Converter	8-SOIC	1330.00/2,500		
ST735CD	497-2118-5-ND	-5V Inverting, Negative Output Current-Mode PWM Regulator	8-SOIC	1.56	1.30	1.10
ST735SCD	497-2119-5-ND	-5V/Adj. Inverting, Negative Output Current-Mode PWM Regulator	8-SOIC	1.56	1.30	1.10
ST750ACD	497-2120-5-ND	Adj. Step-Down, Current-Mode PWM DC/DC Converter	8-SOIC	1.50	1.30	1.00
ST755CD	497-2124-5-ND	Adj. Inverting Negative Output Current-Mode PWM Regulator	8-SOIC	2.40	2.00	1.68
ST763ABDTR	497-2128-1-ND	3.3V, Step-Down Current-Mode PWM DC/DC Converter	8-SOIC	2.37	1.98	1.66
ST763ABDTR	497-2128-2-ND	3.3V, Step-Down Current-Mode PWM DC/DC Converter	8-SOIC	2567.50/2,500		
ST1480ABDR	497-2046-1-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	3.24	2.82	2.10
ST1480ABDR	497-2046-2-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	3840.00/2,500		
ST1480ABN	497-2047-5-ND	3.3V, RS-485/RS-422 Transceiver	8-Dip	3.24	2.82	2.10
ST1480ACDR	497-3726-1-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	2.97	2.59	1.93
ST1480ACDR	497-3726-2-ND	3.3V, RS-485/RS-422 Transceiver	8-SOIC	3520.00/2,500		
ST2042BDR	497-4306-1-ND	Current Limited Power Distribution Switch	8-SOIC	1.54	1.34	1.03
ST2042BDR	497-4306-2-ND	Current Limited Power Distribution Switch	8-SOIC	1362.50/2,500		
ST2044BD	497-4308-5-ND	Current Limited Power Distribution Switch	16-SOIC	1.80	1.56	1.20
ST2044BDR	497-4308-1-ND	Current Limited Power Distribution Switch	16-SOIC	1.54	1.34	1.03
ST2044BDR	497-4308-2-ND	Current Limited Power Distribution Switch	16-SOIC	1362.50/2,500		
ST2052BDR	497-4309-1-ND	Current Limited Power Distribution Switch	8-SOIC	1.54	1.34	1.03
ST2052BDR	497-4309-2-ND	Current Limited Power Distribution Switch	8-SOIC	1362.50/2,500		
ST2054BD	497-4311-5-ND	Current Limited Power Distribution Switch	16-SOIC	1.80	1.56	1.20
ST2054BDR	497-4311-1-ND	Current Limited Power Distribution Switch	16-SOIC	1.54	1.34	1.03
ST2054BDR	497-4311-2-ND	Current Limited Power Distribution Switch	16-SOIC	1362.50/2,500		
ST2310FX	497-4621-5-ND	High Voltage Fast Switching NPN Power Transistor	ISOWATT-218FX	2.70	2.35	1.75
ST2378ETTR	497-3730-1-ND	8-Bit Dual Supply 1.71V-5.5V Level Translator, ESD Protection	20-TSSOP	2.88	2.40	2.02
ST2378ETTR	497-3730-2-ND	8-Bit Dual Supply 1.71V-5.5V Level Translator, ESD Protection	20-TSSOP	3120.00/2,500		
ST3222EBDR	497-2070-1-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	18-SOIC	2.70	2.25	1.89
ST3222EBDR	497-2070-2-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	18-SOIC	1215.00/1,000		
ST3232CDR	497-3731-1-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	2.07	1.73	1.45
ST3232CDR	497-3731-2-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	2242.50/2,500		
ST3232EBD	497-2071-5-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	2.37	1.98	1.66
ST3232EBPR	497-4312-1-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SSOP	3.51	3.06	2.28
ST3232EBPR	497-4312-2-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SSOP	2334.15/1,350		
ST3232EBWR	497-2072-1-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	3.51	3.06	2.28
ST3232EBWR	497-2072-2-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	1729.00/1,000		
ST3232ECWR	497-2073-1-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	3.24	2.82	2.10
ST3232ECWR	497-2073-2-ND	3V to 5.5V, Low Power, RS-232 Driver/Receiver	16-SOIC	1596.00/1,000		
ST3237EBDR	497-2074-1-ND	3V to 5.5V, 250KBPS, RS-232 Transceiver	28-SOIC	4.32	3.76	2.80
ST3237EBDR	497-2074-2-ND	3V to 5.5V, 250KBPS, RS-232 Transceiver	28-SOIC	2128.00/1,000		
ST3241EBDR	497-2075-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-SOIC	3.24	2.82	2.10
ST3241ECDR	497-4779-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver, ESD Protected ***NEW!***	28-SOIC	2.97	2.59	1.93
ST3241ECDR	497-4779-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver, ESD Protected ***NEW!***	28-SOIC	1463.00/1,000		
ST3241ECPR	497-4947-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver, ESD Protected ***NEW!***	28-SSOP	2.97	2.48	2.08
ST3241ECPR	497-4947-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver, ESD Protected ***NEW!***	28-SSOP	1804.95/1,350		
ST3243BTR	497-4768-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver ***NEW!***	28-TSSOP	2.70	2.25	1.89
ST3243BTR	497-4768-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver ***NEW!***	28-TSSOP	2925.00/2,500		
ST3243CPR	497-3732-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-SSOP	2.70	2.35	1.75
ST3243CPR	497-3732-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-SSOP	1795.50/1,350		
ST3243EBDR	497-2076-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-SOIC	3.13	2.73	2.03
ST3243EBDR	497-2076-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-SOIC	1543.00/1,000		
ST3243EBJR	497-2077-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-Flip-Chip	3.24	2.82	2.10
ST3243EBJR	497-2077-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-Flip-Chip	3840.00/2,500		
ST3243EBTR	497-2078-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-TSSOP	2.16	1.80	1.52
ST3243EBTR	497-2078-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver	28-TSSOP	2340.00/2,500		

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
ST3243ECDR	497-4767-1-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver ***NEW!***	28-SOIC	2.70	2.25	1.89
ST3243ECDR	497-4767-2-ND	3V to 5.5V, 400KBPS, RS-232 Transceiver ***NEW!***	28-SOIC	1215.00/1,000		
ST3384EBDR	497-2079-1-ND	3V to 5.5V, Low Power, Up to 250KBPS, RS-232 Transceiver	18-SOIC	2.70	2.25	1.89
ST3485EBDR	497-2080-1-ND	3.3V, Up to 12MBPS, RS-485/RS-422, Transceiver	8-SOIC	3.11	2.71	2.02
ST3485EBDR	497-2080-2-ND	3.3V, Up to 12MBPS, RS-485/RS-422, Transceiver	8-SOIC	3680.00/2,500		
ST3485EBN	497-2081-5-ND	3.3V, Up to 12MBPS, RS-485/RS-422, Transceiver	8-Dip	3.11	2.71	2.02
ST7538P013TR	497-4316-1-ND	Power Line FSK Transceiver	44-TQFP	10.80	9.99	7.56
ST7538P013TR	497-4316-2-ND	Power Line FSK Transceiver	44-TQFP	6750.00/1,000		
ST8004CDR	497-4318-1-ND	SmartCard Interface	28-SOIC	3.24	2.82	2.10
ST8004CDR	497-4318-2-ND	SmartCard Interface	28-SOIC	1596.00/1,000		
ST8024CDR	497-4763-1-ND	SmartCard Interface ***NEW!***	28-SOIC	2.43	2.03	1.71
ST8024CDR	497-4763-2-ND	SmartCard Interface ***NEW!***	28-SOIC	1094.00/1,000		
ST75185CDR	497-2121-1-ND	Multiple RS-232 Driver/Receiver	20-SOIC	.77	.62	.43
ST75185CDR	497-2121-2-ND	Multiple RS-232 Driver/Receiver	20-SOIC	264.00/1,000		
ST75185CPR	497-2122-1-ND	Multiple RS-232 Driver/Receiver	20-SSOP	1.73	1.50	1.15
ST75185CPR	497-2122-2-ND	Multiple RS-232 Driver/Receiver	20-SSOP	900.45/1,350		
ST75285CTR	497-2123-1-ND	Multiple RS-232 Driver/Receiver	38-TSSOP	2.10	1.75	1.47
ST75285CTR	497-2123-2-ND	Multiple RS-232 Driver/Receiver	38-TSSOP	2275.00/2,500		
STA013$013TR	497-3939-1-ND	MPEG 2.5 Layer III Audio Decoder	28-SOIC	17.14	15.86	12.00
STA013$013TR	497-3939-2-ND	MPEG 2.5 Layer III Audio Decoder	28-SOIC	10713.00/1,000		
STA015$013TR	497-3940-1-ND	MPEG 2.5 Layer III Audio Decoder with ADPCM Capability	28-SOIC	19.30	17.86	13.51
STA015$013TR	497-3940-2-ND	MPEG 2.5 Layer III Audio Decoder with ADPCM Capability	28-SOIC	12063.00/1,000		
STA015T$	497-2141-ND	MPEG 2.5 Layer III Audio Decoder	44-TQFP	19.30	17.86	13.51
STA020D	497-3941-5-ND	96KHz Digital Audio Interface Transmitter	24-SOIC	5.00	4.35	3.24
STA120D	497-3943-5-ND	Digital Audio Interface Receiver	28-SOIC	5.00	4.35	3.24
STA120D13TR	497-3943-1-ND	Digital Audio Interface Receiver	28-SOIC	5.00	4.35	3.24
STA120D13TR	497-3943-2-ND	Digital Audio InterfaceReceiver	28-SOIC	2461.00/1,000		
STA304A	497-3944-ND	Digital Audio Processor with Multichannel DDX™	44-TQFP	13.30	12.31	9.31
STA500	497-3947-5-ND	30V, 3.5A Quad Power Half Bridge	36-PSOIC	8.63	7.88	6.23
STA502A	497-3950-5-ND	40V, 4A Double Power Half Bridge	36-PSOIC	8.63	7.88	6.23
STA505	497-2142-ND	40V, 3.5A Quad Power Half Bridge	36-PSOIC	9.43	8.61	6.81
STA30613TR	497-3945-1-ND	Multichannel Digital Audio Processor with DDX™	64-TQFP	9.20	8.40	6.64
STA30613TR	497-3945-2-ND	Multichannel Digital Audio Processor with DDX™	64-TQFP	5100.00/1,000		
STA30813TR	497-3946-1-ND	Multichannel Digital Audio Processor with DDX™	64-TQFP	10.58	9.66	7.64
STA30813TR	497-3946-2-ND	Multichannel Digital Audio Processor with DDX™	64-TQFP	5865.00/1,000		
STA501013TR	497-3949-1-ND	40V, 3.5A Double Power Half Bridge	36-PSOIC	8.63	7.88	6.23
STA501013TR	497-3949-2-ND	40V, 3.5A Double Power Half Bridge	36-PSOIC	2925.00/600		
STABP01	497-3951-5-ND	BASH® Digital Processor	20-Dip	7.13	6.51	5.15
STABP01D	497-3952-5-ND	BASH® Digital Processor	20-SOIC	7.13	6.51	5.15
STC03DE150	497-4326-5-ND	Hybrid Emitter Switched Bipolar Transistor	TO-247-4L	6.10	5.57	4.40
STCC05-BD4	497-4328-5-ND	Home Appliance Control Circuit	20-Dip	2.55	2.13	1.79
STE10/100A	497-3663-ND	PCI 10/100 Ethernet Controller	128-PQFP	10.60	9.81	7.42
STE100P	497-2143-ND	3.3V, 10/100 Fast Ethernet Transceiver	64-TQFP	8.05	7.35	5.81
STG719STR	497-3738-1-ND	Low Voltage 4-Ohm SPDT Switch	SOT-23-6	1.01	.88	.68
STG719STR	497-3738-2-ND	Low Voltage 4-Ohm SPDT Switch	SOT-23-6	1077.00/3,000		
STG3157CTR	497-2144-1-ND	LV, SPDT, Low On Resistance	SOT-323-6	1.01	.88	.68
STG3157CTR	497-2144-2-ND	LV, SPDT, Low On Resistance	SOT-323-6	1077.00/3,000		
STG3680QTR	497-4347-1-ND	Low Voltage 0.5/0.8-Ohm Dual SPDT Switch	16-QFN	1.31	1.14	.88
STG3680QTR	497-4347-2-ND	Low Voltage 0.5/0.8-Ohm Dual SPDT Switch	16-QFN	1398.00/3,000		
STG3684QTR	497-3021-1-ND	Low Voltage, Dual SPDT Switch	16-QFN	1.77	1.48	1.24
STG3684QTR	497-3021-2-ND	Low Voltage, Dual SPDT Switch	16-QFN	2301.00/3,000		
STG3690QTR	497-4348-1-ND	Low Volt. 5-Ohm Quad SPDT Switch	16-QFN	1.31	1.14	.88
STG3690QTR	497-4348-2-ND	Low Volt. 5-Ohm Quad SPDT Switch	16-QFN	1398.00/3,000		
STG3699AQTR	497-4524-1-ND	Low Volt. 0.5-Ohm Quad SPDT Switch	16-QFN	2.97	2.59	1.93
STG3699AQTR	497-4524-2-ND	Low Volt. 0.5-Ohm Quad SPDT Switch	16-QFN	4224.00/3,000		
STG3699AUTR	497-4792-1-ND	Low Voltage 0.5-Ohm Quad SPDT Switch ***NEW!***	16-QFN	2.34	1.95	1.64
STG3699AUTR	497-4792-2-ND	Low Voltage 0.5-Ohm Quad SPDT Switch ***NEW!***	16-QFN	3042.00/3,000		
STG3699QTR	497-3022-1-ND	Low Voltage, Quad SPDT Switch	16-QFN	2.97	2.59	1.93
STG3699QTR	497-3022-2-ND	Low Voltage, Quad SPDT Switch	16-QFN	4224.00/3,000		
STHDMI001ATTR	497-4948-1-ND	3.3V, High Bandwidth, 2-to-1 HDMI Switch ***NEW!***	48-TSSOP	3.38	2.94	2.19
STHDMI001ATTR	497-4948-2-ND	3.3V, High Bandwidth, 2-to-1 HDMI Switch ***NEW!***	48-TSSOP	3326.000/2,000		
STLC3055	497-2145-ND	WLL and ISDN-TA Subscriber Line Interface Circuit	44-TQFP	10.97	10.02	7.92
STLC3055QTR	497-3664-1-ND	WLL and ISDN-TA Subscriber Line Interface Circuit	44-TQFP	10.97	10.02	7.92
STLC3055QTR	497-3664-2-ND	WLL and ISDN-TA Subscriber Line Interface Circuit	44-TQFP	6082.00/1,000		
STLC5046	497-3665-ND	Prog. 4-Channel Codec/Filter	64-TQFP	8.05	7.35	5.81
STLVD111BFR	497-2146-1-ND	Programmable Low Voltage 1:10 Diff. LVDS Clock Driver	32-TQFP	22.31	19.13	16.96
STLVD111BFR	497-2146-2-ND	Programmable Low Voltage 1:10 Diff. LVDS Clock Driver	32-TQFP	37790.40/2,400		
STLVDS050BDR	497-2147-1-ND	High Speed, Differential Line Driver/Receiver	16-SOIC	2.70	2.25	1.89
STLVDS32BDR	497-2148-1-ND	HS, Differential Line Receiver	16-SOIC	2.55	2.13	1.79
STLVDS32BTR	497-4748-1-ND	High Speed Differential Line Receiver ***NEW!***	16-TSSOP	2.88	2.40	2.02
STLVDS32BTR	497-4748-2-ND	High Speed Differential Line Receiver ***NEW!***	16-TSSOP	3120.00/2,500		
STLVDS385BTR	497-2150-1-ND	+3.3V, Prog. LVDS TX 24-Bit FPD Link-85MHz	56-TSSOP	7.36	6.72	5.32
STLVDS385BTR	497-2150-2-ND	+3.3V, Prog. LVDS TX 24-Bit FPD Link-85MHz	56-TSSOP	8160.00/2,000		
STLVDS3486BDR	497-2149-1-ND	High Speed, Differential Line Receiver	16-SOIC	3.38	2.94	2.19
STM1061N16WX6F	497-4949-1-ND	1.6V Low Power Volt. Detector ***NEW!***	SOT-23	.65	.52	.39
STM1061N16WX6F	497-4949-2-ND	1.6V Low Power Volt. Detector ***NEW!***	SOT-23	585.00/3,000		
STM1061N17WX6F	497-4950-1-ND	1.7V Low Power Volt. Detector ***NEW!***	SOT-23	.65	.52	.39
STM1061N17WX6F	497-4950-2-ND	1.7V Low Power Volt. Detector ***NEW!***	SOT-23	585.00/3,000		
STM1061N22WX6F	497-4951-1-ND	2.2V Low Power Volt. Detector ***NEW!***	SOT-23	.65	.52	.39
STM1061N22WX6F	497-4951-2-ND	2.2V Low Power Volt. Detector ***NEW!***	SOT-23	585.00/3,000		
STM1061N23WX6F	497-4952-1-ND	2.3V Low Power Volt. Detector ***NEW!***	SOT-23	.65	.52	.39
STM1061N23WX6F	497-4952-2-ND	2.3V Low Power Volt. Detector ***NEW!***	SOT-23	585.00/3,000		
STM1061N26WX6F	497-4953-1-ND	2.6V Low Power Volt. Detector ***NEW!***	SOT-23	.65	.52	.39
STM1061N26WX6F	497-4953-2-ND	2.6V Low Power Volt. Detector ***NEW!***	SOT-23	585.00/3,000		
STM1061N27WX6F	497-4954-1-ND	2.7V Low Power Volt. Detector ***NEW!***	SOT-23	.65	.52	.39
STM1061N27WX6F	497-4954-2-ND	2.7V Low Power Volt. Detector ***NEW!***	SOT-23	585.00/3,000		
STM1061N28WX6F	497-4955-1-ND	2.8V Low Power Volt. Detector ***NEW!***	SOT-23	.65	.52	.39
STM1061N28WX6F	497-4955-2-ND	2.8V Low Power Volt. Detector ***NEW!***	SOT-23	585.00/3,000		
STM1061N29WX6F	497-4956-1-ND	2.9V Low Power Volt. Detector ***NEW!***	SOT-23	.65	.52	.39
STM1061N29WX6F	497-4956-2-ND	2.9V Low Power Volt. Detector ***NEW!***	SOT-23	585.00/3,000		
STM1061N31WX6F	497-4957-1-ND	3.1V Low Power Volt. Detector ***NEW!***	SOT-23	.65	.52	.39
STM1061N31WX6F	497-4957-2-ND	3.1V Low Power Volt. Detector ***NEW!***	SOT-23	585.00/3,000		
STM1061N34WX6F	497-4958-1-ND	3.4V Low Power Volt. Detector ***NEW!***	SOT-23	.65	.52	.39
STM1061N34WX6F	497-4958-2-ND	3.4V Low Power Volt. Detector ***NEW!***	SOT-23	585.00/3,000		
STM1810LWX7F	497-4959-1-ND	4.62V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1810LWX7F	497-4959-2-ND	4.62V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1810MWX7F	497-4960-1-ND	4.37V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1810MWX7F	497-4960-2-ND	4.37V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1811LWX7F	497-4961-1-ND	4.62V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1811LWX7F	497-4961-2-ND	4.62V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1811MWX7F	497-4962-1-ND	4.37V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1811MWX7F	497-4962-2-ND	4.37V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1812LWX7F	497-4963-1-ND	4.62V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1812LWX7F	497-4963-2-ND	4.62V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1812MWX7F	497-4964-1-ND	4.37V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1812MWX7F	497-4964-2-ND	4.37V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1813LWX7F	497-4965-1-ND	4.62V Low Power Reset Circuit ***NEW!***	SOT-23	.88	.71	.53
STM1813LWX7F	497-4965-2-ND	4.62V Low Power Reset Circuit ***NEW!***	SOT-23	834.00/3,000		
STM1813MWX7F	497-4966-1-ND	4.37V Low Power Reset Circuit ***NEW!***	SOT-23	.88	.71	.53
STM1813MWX7F	497-4966-2-ND	4.37V Low Power Reset Circuit ***NEW!***	SOT-23	834.00/3,000		
STM1815RWX7F	497-4967-1-ND	2.55V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1815RWX7F	497-4967-2-ND	2.55V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1815SWX7F	497-4968-1-ND	2.88V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1815SWX7F	497-4968-2-ND	2.88V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1815TWX7F	497-4969-1-ND	3.06V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1815TWX7F	497-4969-2-ND	3.06V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1816RWX7F	497-4970-1-ND	2.55V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1816RWX7F	497-4970-2-ND	2.55V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1817RWX7F	497-4971-1-ND	2.55V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1817RWX7F	497-4971-2-ND	2.55V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1817SWX7F	497-4972-1-ND	2.88V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1817SWX7F	497-4972-2-ND	2.88V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1817TWX7F	497-4973-1-ND	3.06V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1817TWX7F	497-4973-2-ND	3.06V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1818RWX7F	497-4974-1-ND	2.55V Low Power Reset Circuit ***NEW!***	SOT-23	.88	.71	.53
STM1818RWX7F	497-4974-2-ND	2.55V Low Power Reset Circuit ***NEW!***	SOT-23	834.00/3,000		
STM6315SDW13F	497-4975-1-ND	2.93V Open Drain Microprocessor Reset ***NEW!***	SOT-143-4	.99	.80	.60
STM6315SDW13F	497-4975-2-ND	2.93V Open Drain Microprocessor Reset ***NEW!***	SOT-143-4	942.00/3,000		
STM6821TWY6F	497-4976-1-ND	Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6821TWY6F	497-4976-2-ND	Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		
STM6823TWY6F	497-4977-1-ND	Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6823TWY6F	497-4977-2-ND	Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		
STM6824SWY6F	497-4978-1-ND	Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6824SWY6F	497-4978-2-ND	Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		
STM6825SWY6F	497-4979-1-ND	Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6825SWY6F	497-4979-2-ND	Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		
STM86312	497-4363-ND	VFD Controller/Driver	44-PQFP	3.40	2.97	2.21
STMUX1000LQTR	497-4667-1-ND	Gigabit LAN Analog Switch, 16-Bit to 8-Bit Mux ***NEW!***	56-QFN	4.05	3.53	2.63
STMUX1000LQTR	497-4667-2-ND	Gigabit LAN Analog Switch, 16-Bit to 8-Bit Mux ***NEW!***	56-QFN	4800.00/2,500		
STP08C596MTR	497-4367-1-ND	8-Bit Constant Current LED Sink Driver	16-SOIC	1.68	1.40	1.18
STP08C596MTR	497-4367-2-ND	8-Bit Constant Current LED Sink Driver	16-SOIC	1820.00/2,500		
STP08C596TTR	497-3870-1-ND	8-Bit Constant Current LED Sink Driver	16-TSSOP	1.68	1.40	1.18
STP08C596TTR	497-3870-2-ND	8-Bit Constant Current LED Sink Driver	16-TSSOP	1820.00/2,500		
STP08CDC596MTR	497-4670-1-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-SOIC	1.95	1.63	1.37
STP08CDC596MTR	497-4670-2-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-SOIC	878.00/1,000		
STP08CDC596TTR	497-4756-1-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-TSSOP	1.95	1.63	1.37
STP08CDC596TTR	497-4756-2-ND	8-Bit Constant Current LED Sink Driver ***NEW!***	16-TSSOP	2112.50/2,500		
STP08CL596B1	497-3871-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-Dip	1.68	1.40	1.18
STP08CL596MTR	497-3872-1-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-SOIC	1.68	1.40	1.18

(Continued)

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
STP08CL596MTR	497-3872-2-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-SOIC	1820.00/2,500		
STP08CL596TTR	497-3873-1-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-TSSOP	1.68	1.40	1.18
STP08CL596TTR	497-3873-2-ND	Low Voltage 8-Bit Constant Current LED Sink Driver	16-TSSOP	1820.00/2,500		
STP16C596B1R	497-3874-ND	16-Bit Constant Current LED Sink Driver	24-Dip	2.52	2.10	1.77
STP16C596M	497-3875-ND	16-Bit Constant Current LED Sink Driver	24-SOIC	2.52	2.10	1.77
STP16C596MTR	497-3875-1-ND	16-Bit Constant Current LED Sink Driver	24-SOIC	2.52	2.10	1.77
STP16C596MTR	497-3875-2-ND	16-Bit Constant Current LED Sink Driver	24-SOIC	1134.00/1,000		
STP16C596TTR	497-3876-1-ND	16-Bit Constant Current LED Sink Driver	24-TSSOP	2.52	2.10	1.77
STP16C596TTR	497-3876-2-ND	16-Bit Constant Current LED Sink Driver	24-TSSOP	2730.00/2,500		
STP16C596XTTR	497-4371-1-ND	16-Bit Constant Current LED Sink Driver	24-TSSOP	2.52	2.10	1.77
STP16C596XTTR	497-4371-2-ND	16-Bit Constant Current LED Sink Driver	24-TSSOP	2730.00/2,500		
STP16CL596B1R	497-3877-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-Dip	2.52	2.10	1.77
STP16CL596M	497-3878-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-SOIC	2.52	2.10	1.77
STP16CL596MTR	497-3878-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-SOIC	2.52	2.10	1.77
STP16CL596MTR	497-3878-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-SOIC	1134.00/1,000		
STP16CL596TTR	497-3879-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-TSSOP	2.52	2.10	1.77
STP16CL596TTR	497-3879-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-TSSOP	2730.00/2,500		
STP16CL596XTTR	497-4529-1-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-TSSOP	2.52	2.10	1.77
STP16CL596XTTR	497-4529-2-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-TSSOP	2730.00/2,500		
STP16CP596M	497-4624-5-ND	Low Voltage 16-Bit Constant Current LED Sink Driver	24-SOIC	2.79	2.33	1.96
STPIC6A259MTR	497-2152-1-ND	Power Logic 8-Bit Addressable Latch	24-SOIC	1.98	1.65	1.39
STPIC6A259MTR	497-2152-2-ND	Power Logic 8-Bit Addressable Latch	24-SOIC	891.00/1,000		
STPIC6C595M	497-2153-5-ND	Power Logic 8-Bit Shift Register	16-SOIC	2.10	1.75	1.47
STPIC6C595MTR	497-3023-1-ND	Power Logic 8-Bit Shift Register	16-SOIC	2.10	1.75	1.47
STPIC6C595MTR	497-3023-2-ND	Power Logic 8-Bit Shift Register	16-SOIC	1262.50/2,500		
STPIC6C595TTR	497-3024-1-ND	Power Logic 8-Bit Shift Register	16-TSSOP	2.10	1.75	1.47
STPIC6C595TTR	497-3024-2-ND	Power Logic 8-Bit Shift Register	16-TSSOP	1262.50/2,500		
STPM01FTR	497-4762-1-ND	Prog. Single Phase Energy Metering IC ***NEW!***	20-TSSOP	10.00	9.25	7.00
STPM01FTR	497-4762-2-ND	Prog. Single Phase Energy Metering IC ***NEW!***	20-TSSOP	15500.00/2,500		
STSR2PCD-TR	497-2154-1-ND	Forward Sync. Rectifier Smart Driver	8-SOIC	3.78	3.29	2.45
STSR2PCD-TR	497-2154-2-ND	Forward Sync. Rectifier Smart Driver	8-SOIC	4480.00/2,500		
STSR3CD	497-4400-5-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	3.73	3.25	2.42
STSR3CD-TR	497-4401-1-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	3.73	3.25	2.42
STSR3CD-TR	497-4401-2-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	4415.00/2,500		
STSR30D-TR	497-2155-1-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	3.73	3.25	2.42
STSR30D-TR	497-2155-2-ND	Sync. Rectifier Smart Driver for Flyback	8-SOIC	4415.00/2,500		
STUSB02EQR	497-4983-1-ND	USB Transceiver ***NEW!***	16-QFN	.94	.82	.63
STUSB02EQR	497-4983-2-ND	USB Transceiver ***NEW!***	16-QFN	999.00/3,000		
STW5093CYLT	497-3375-1-ND	2.7V, 14-Bit Linear Codec with High Performance Audio Front-End	30-TSSOP	4.86	4.23	3.15
STW5093CYLT	497-3375-2-ND	2.7V, 14-Bit Linear Codec with High Performance Audio Front-End	30-TSSOP	5760.00/2,500		
TBA820M	497-3025-5-ND	1.2W Audio Amp	8-Dip	1.35	1.17	.90
TD220ID	497-2156-5-ND	Gate Driver	8-SOIC	1.69	1.47	1.13
TD221ID	497-2157-5-ND	Gate Driver	8-SOIC	1.69	1.47	1.13
TD310IDT	497-4052-1-ND	Triple IGBT/MOS Driver	16-SOIC	2.34	1.95	1.64
TD310IDT	497-4052-2-ND	Triple IGBT/MOS Driver	16-SOIC	2535.00/2,500		
TD350IDT	497-4053-1-ND	Advanced IGBT/MOSFET Driver	14-SOIC	2.97	2.59	1.93
TD350IDT	497-4053-2-ND	Advanced IGBT/MOSFET Driver	14-SOIC	3520.00/2,500		
TD351IDT	497-4439-1-ND	Advanced IGBT/MOSFET Driver	8-SOIC	1.80	1.50	1.26
TD351IDT	497-4439-2-ND	Advanced IGBT/MOSFET Driver	8-SOIC	1950.00/2,500		
TD351IN	497-4440-5-ND	Advanced IGBT/MOSFET Driver	8-Dip	1.80	1.50	1.26
TD352IDT	497-4676-1-ND	Advanced IGBT/MOSFET Driver ***NEW!***	8-SOIC	1.54	1.34	1.03
TD352IDT	497-4676-2-ND	Advanced IGBT/MOSFET Driver ***NEW!***	8-SOIC	1362.50/2,500		
TDA0161DP	497-2158-5-ND	Proximity Detector	8-Mini Dip	3.51	3.06	2.28
TDA0161FP	497-2159-5-ND	Proximity Detector	8-SOIC	3.51	3.06	2.28
TDA1905	497-2160-5-ND	5W, Audio Amplifier	16-Power Dip	2.10	1.75	1.47
TDA2003H	497-2161-5-ND	10W, Car Radio Audio Amp	Pentawatt	2.10	1.75	1.47
TDA2003V	497-2162-5-ND	10W, Car Radio Audio Amp	Pentawatt	2.10	1.75	1.47
TDA2005M	497-2163-5-ND	20W, Bridge Amplifier	11-Multiwatt	2.84	2.47	1.84
TDA2007A	497-3953-5-ND	Dual Stereo Amp	9-SIP	2.73	2.28	1.92
TDA2009A	497-2164-5-ND	10 + 10W, Stereo Amp	11-Multiwatt	3.65	3.18	2.37
TDA2030AH	497-3667-ND	18W, Hi-Fi Audio Amp	Pentawatt	3.11	2.71	2.02
TDA2030AV	497-2165-5-ND	18W, Hi-Fi Amp/35W Driver	Pentawatt	2.97	2.59	1.93
TDA2030H	497-3026-5-ND	14W, Hi-Fi Audio Amp	5-Pentawatt	2.97	2.59	1.93
TDA2030V	497-3954-5-ND	14W, Hi-Fi Audio Amp	Pentawatt	2.86	2.50	1.86
TDA2040V	497-3027-5-ND	20W, Hi-Fi Audio Amp	5-Pentawatt	3.65	3.18	2.37
TDA2050V	497-3028-5-ND	32W, Hi-Fi Audio Amp	5-Pentawatt	3.78	3.29	2.45
TDA2052V	497-3955-5-ND	60W Hi-Fi Audio Power Amp with Mute/Standby	V-Heptawatt	7.82	7.14	5.65
TDA2822	497-3956-5-ND	Dual Low Voltage Power Amp	16-Power Dip	1.56	1.30	1.10
TDA2822D	497-2166-5-ND	Dual Low Voltage Power Amp	8-SOIC	1.58	1.37	1.05
TDA2822D013TR	497-3376-1-ND	Dual Low Voltage Power Amp	8-SOIC	1.69	1.47	1.13
TDA2822D013TR	497-3376-2-ND	Dual Low Voltage Power Amp	8-SOIC	1497.50/2,500		
TDA7233	497-3957-5-ND	1W, Audio Amp with Mute	8-Dip	1.65	1.38	1.16
TDA7233D013TR	497-3668-1-ND	1W, Audio Amp with Mute	8-SOIC	1.92	1.60	1.35
TDA7233D013TR	497-3668-2-ND	1W, Audio Amp with Mute	8-SOIC	2080.00/2,500		
TDA7240AH	497-2167-5-ND	20W, Bridge Amp	H-Heptawatt	3.11	2.71	2.02
TDA7240AV	497-2168-5-ND	20W, Bridge Amp	V-Heptawatt	2.84	2.47	1.84
TDA7256	497-2169-5-ND	30W, Bridge Car Radio Amp	11-Multiwatt	5.67	4.94	3.68
TDA7263	497-3958-5-ND	AB Dual Audio Power Amp	11-Clipwatt	3.78	3.29	2.45
TDA7264	497-3959-5-ND	AB Dual Audio Power Amp	8-Multiwatt	5.00	4.35	3.24
TDA7265	497-3960-5-ND	AB Dual Audio Power Amp	11-Multiwatt	6.48	5.64	4.20
TDA7266	497-3669-ND	14W, Dual Bridge Amp	15-Multiwatt	6.90	6.30	4.98
TDA7266D	497-4024-5-ND	14W, Dual Bridge Amp	20-Power SOIC	4.00	3.48	2.59
TDA7266S	497-3670-ND	10W, Dual Bridge Amp	15-Multiwatt	6.79	6.20	4.90
TDA7267	497-3671-ND	2W, Mono Amp	8-MiniDip	2.40	2.00	1.68
TDA7267A	497-3962-5-ND	3W, Mono Amp	16-Power Dip	2.85	2.38	2.00
TDA7268	497-3963-5-ND	2x2W Stereo Audio Amp	16-Power Dip	4.05	3.53	2.63
TDA7269A	497-3964-5-ND	AB Dual Audio Power Amp	11-Multiwatt	5.54	4.82	3.59
TDA7293V	497-2170-5-ND	120V, 100W DMOS Audio Amp	15V-Multiwatt	6.65	6.07	4.80
TDA7294V	497-2171-5-ND	100V, 100W DMOS Audio Amp	15V-Multiwatt	10.12	9.24	7.31
TDA7295	497-3965-5-ND	80V, 80W DMOS Audio Amp	15-Multiwatt	8.97	8.19	6.48
TDA7296	497-3966-5-ND	70V, 60W DMOS Audio Amp	15-Multiwatt	8.63	7.88	6.23
TDA7297	497-3967-5-ND	Dual Bridge Amp	15-Multiwatt	6.90	6.30	4.98
TDA7297D	497-3968-5-ND	Dual Bridge Amp	20-Power SOIC	7.52	6.87	5.43
TDA7309D013TR	497-3969-1-ND	Digital Controlled Stereo Audio Processor	20-SOIC	6.10	5.57	4.40
TDA7309D013TR	497-3969-2-ND	Digital Controlled Stereo Audio Processor	20-SOIC	3379.00/1,000		
TDA7338D013TR	497-3971-1-ND	Stereo Decoder	20-SOIC	5.75	5.25	4.15
TDA7338D013TR	497-3971-2-ND	Stereo Decoder	20-SOIC	3188.00/1,000		
TDA7350A	497-3972-5-ND	22W Bridge Stereo Amp	11-Multiwatt	5.40	4.70	3.50
TDA7360	497-3973-5-ND	22W Bridge/Stereo Audio Amp	11V-Multiwatt	5.87	5.36	4.24
TDA7375AV	497-3974-5-ND	Dual/Quad Power Amp	15V-Multiwatt	7.13	6.51	5.15
TDA7375V	497-2172-5-ND	2x35W Dual/Quad Power Amp	15V-Multiwatt	7.13	6.51	5.15
TDA7384A	497-2173-5-ND	4x35W Quad Bridge Car Radio Amp	25-Flexiwatt	12.30	11.38	8.61
TDA7385	497-2174-5-ND	4x30W Quad Bridge Car Radio Amp	25-Flexiwatt	11.00	10.18	7.70
TDA7386	497-2175-5-ND	4x40W Quad Bridge Car Radio Amp	25-Flexiwatt	15.40	14.25	10.78
TDA7391	497-2176-5-ND	35W, Bridge Car Radio Amp	11-Multiwatt	6.21	5.67	4.49
TDA7391PD	497-3975-5-ND	35W, Bridge Car Radio Amp	20-Power SOIC	9.66	8.82	6.98
TDA7393	497-3976-5-ND	Dual Bridge Car Radio Amp	15-Multiwatt	6.33	5.78	4.57
TDA7396	497-2177-5-ND	45W, Bridge Car Radio Amp	11-Multiwatt	6.62	5.76	4.29
TDA7400DTR	497-3977-1-ND	Advance Car Signal Processor	28-SOIC	10.07	9.20	7.28
TDA7400DTR	497-3977-2-ND	Advance Car Signal Processor	28-SOIC	5585.00/1,000		
E-TDA7400DTR	497-5050-1-ND	Advance Car Signal Processor* ***NEW!***	28-SOIC	10.07	9.20	7.28
E-TDA7400DTR	497-5050-2-ND	Advance Car Signal Processor* ***NEW!***	28-SOIC	5585.00/1,000		
TDA7407	497-3979-ND	Advance Car Signal Processor	44-TQFP	9.32	8.51	6.73
TDA7411TR	497-3981-1-ND	Advance Car Signal Processor	44-TQFP	10.80	9.99	7.56
TDA7411TR	497-3981-2-ND	Advance Car Signal Processor	44-TQFP	6750.00/1,000		
TDA7433D	497-2178-5-ND	Basic Function Audio Processor	20-SOIC	3.38	2.94	2.19
TDA7438D	497-3982-5-ND	Three Bands Digitally Controlled Audio Processor	28-SOIC	6.90	6.30	4.98
TDA7439DS13TR	497-3983-1-ND	Three Bands Digitally Controlled Audio Processor	30-SDip	8.97	8.19	6.48
TDA7439DS13TR	497-3983-2-ND	Three Bands Digitally Controlled Audio Processor	30-SDip	4973.00/1,000		
TDA7449	497-3672-ND	Tone Control, Digitally Controlled Audio Processor	20-Dip	3.38	2.94	2.19
TDA7454	497-2179-5-ND	4x35W High Eff. Quad Bridge Car Radio Amp	25-Flexiwatt	15.50	14.34	10.85
TDA7462D013TR	497-3673-1-ND	Dual Audio Processor with Compander	28-SOIC	7.48	6.83	5.40
TDA7462D013TR	497-3673-2-ND	Dual Audio Processor with Compander	28-SOIC	4144.00/1,000		
TDA7482	497-3984-5-ND	25W Mono Class-D Amp	15-Multiwatt	8.28	7.56	5.98
TDA7490	497-3985-5-ND	Dual Stereo Class-D Amp	25-Flexiwatt	7.48	6.83	5.40
TDA7490L	497-3986-5-ND	Dual Stereo Class-D Amp	25-Flexiwatt	6.81	6.22	4.92
TDA7494S	497-2180-5-ND	10W, Amp	15-Multiwatt	2.07	1.73	1.45
TDA7511	497-3988-ND	AM/FM Tuner for Car Radio and Hi-Fi Applications	64-TQFP	11.80	10.92	8.26
TDA7560	497-2181-5-ND	4x45W Quad Bridge Car Radio Amp	25-Flexiwatt	21.44	18.38	16.30
TDA7561	497-2182-5-ND	Multifunction Quad Power Amp	25-Flexiwatt	10.80	9.99	7.56
TDA7563	497-2183-5-ND	Multifunction Quad Power Amp	27-Flexiwatt	13.30	12.31	9.31
TDA7575PDTR	497-3990-1-ND	Multifunction Dual Bridge Power Amp	36-Power SOIC	11.30	10.46	7.91
TDA7575PDTR	497-3990-2-ND	Multifunction Dual Bridge Power Amp	36-Power SOIC	4305.60/600		
TDA7401013TR	497-3978-1-ND	Digitally Controlled Audio Processor	28-SOIC	5.40	4.70	3.50
TDA7401013TR	497-3978-2-ND	Digitally Controlled Audio Processor	28-SOIC	2660.00/1,000		
E-TDA7401013TR	497-5051-1-ND	Digitally Controlled Audio Processor* ***NEW!***	28-SOIC	5.40	4.70	3.50
E-TDA7401013TR	497-5051-2-ND	Digitally Controlled Audio Processor* ***NEW!***	28-SOIC	2660.00/1,000		
TDA7535013TR	497-3989-1-ND	Delta/Sigma Cascade 20-Bit Stereo DAC	14-SOIC	5.40	4.70	3.50
TDA7535013TR	497-3989-2-ND	Delta/Sigma Cascade 20-Bit Stereo DAC	14-SOIC	6400.00/2,500		
TDE1707BFPT	497-3674-ND	Intelligent Power Switch	8-SOIC	5.48	4.78	3.56
TDE1798DP	497-2184-5-ND	0.5A, Intelligent Power Switch	8-Mini Dip	6.39	5.84	4.62
TDE1897RDP	497-2185-5-ND	0.5A, High-Side IPS Driver	8-Mini Dip	6.62	5.76	4.29
TDE1898CFPT	497-4984-1-ND	0.5A, High-Side IPS Driver ***NEW!***	20-SOIC	4.59	4.00	2.98
TDE1898CFPT	497-4984-2-ND	0.5A, High-Side IPS Driver ***NEW!***	20-SOIC	2261.00/1,000		
TEA2025B	497-3991-5-ND	Stereo Audio Amp	16-Dip	1.77	1.48	1.24
TEA2025D013TR	497-3675-1-ND	Stereo Audio Amp	20-SOIC	2.04	1.70	1.43
TEA2025D013TR	497-3675-2-ND	Stereo Audio Amp	20-SOIC	918.00/1,000		
E-TEA3717DP	497-5056-5-ND	Stepper Motor Driver* ***NEW!***	16-Power Dip	2.55	2.13	1.79
TEA3718DP	497-2188-5-ND	Stepper Motor Driver	16-Power Dip	3.19	2.78	2.07
TEA3718SDP	497-2189-5-ND	Stepper Motor Driver	16-Power Dip	2.94	2.57	1.91
TEA3718SFPTR	497-2190-1-ND	Stepper Motor Driver	20-SOIC	3.15	2.63	2.21
TEA3718SFPTR	497-2190-2-ND	Stepper Motor Driver	20-SOIC	1418.00/1,000		

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
TL061ACDT	497-2191-1-ND	Low Power, J-Fet Single Op Amp	8-SOIC	1.31	1.14	.88
TL061ACDT	497-2191-2-ND	Low Power, J-Fet Single Op Amp	8-SOIC	1165.00/2,500		
TL061CDT	497-2192-1-ND	Low Power, J-Fet Single Op Amp	8-SOIC	.68	.54	.41
TL061CDT	497-2192-2-ND	Low Power, J-Fet Single Op Amp	8-SOIC	535.00/2,500		
TL061IDT	497-4054-1-ND	Low Power, J-Fet Single Op Amp	8-SOIC	.72	.58	.44
TL061IDT	497-4054-2-ND	Low Power, J-Fet Single Op Amp	8-SOIC	570.00/2,500		
TL062ACDT	497-2193-1-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	.99	.80	.60
TL062ACDT	497-2193-2-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	785.00/2,500		
TL062CDT	497-2194-1-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	1.04	.83	.63
TL062CDT	497-2194-2-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	487.50/2,500		
TL062CN	497-2195-5-ND	Low Power, J-Fet Dual Op Amp	8-Dip	.70	.56	.42
TL062ID	497-3029-5-ND	Low Power, J-Fet Dual Op Amp	8-SOIC	.70	.57	.43
TL064CDT	497-2196-1-ND	Low Power, J-Fet Quad Op Amp	14-SOIC	.77	.62	.43
TL064CDT	497-2196-2-ND	Low Power, J-Fet Quad Op Amp	14-SOIC	605.00/2,500		
TL064CN	497-2197-5-ND	Low Power, J-Fet Quad Op Amp	14-Dip	.77	.62	.46
TL064IDT	497-3030-1-ND	Low Power, J-Fet Quad Op Amp	14-SOIC	1.35	1.17	.90
TL064IDT	497-3030-2-ND	Low Power, J-Fet Quad Op Amp	14-SOIC	1197.50/2,500		
TL064IN	497-2198-5-ND	Low Power, J-Fet Quad Op Amp	14-Dip	1.00	.80	.60
TL071CDT	497-4055-1-ND	Low Noise, J-Fet Single Op Amp	8-SOIC	.65	.52	.39
TL071CDT	497-4055-2-ND	Low Noise, J-Fet Single Op Amp	8-SOIC	487.50/2,500		
TL071CN	497-3031-5-ND	Low Noise, J-Fet Single Op Amp	8-Dip	.90	.72	.54
TL071IDT	497-2199-1-ND	Low Noise, J-Fet Single Op Amp	8-SOIC	1.09	.88	.66
TL071IDT	497-2199-2-ND	Low Noise, J-Fet Single Op Amp	8-SOIC	862.50/2,500		
TL072CDT	497-2200-1-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC	1.08	.87	.65
TL072CDT	497-2200-2-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC	487.50/2,500		
TL072CN	497-2201-5-ND	Low Noise, J-Fet Dual Op Amp	8-Dip	.65	.52	.39
TL072IDT	497-2202-1-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC	1.01	.88	.68
TL072IDT	497-2202-2-ND	Low Noise, J-Fet Dual Op Amp	8-SOIC	525.00/2,500		
TL074ACDT	497-2203-1-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	1.20	1.04	.80
TL074ACDT	497-2203-2-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	1065.00/2,500		
TL074CDT	497-2204-1-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	.77	.62	.43
TL074CDT	497-2204-2-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	605.00/2,500		
TL074CN	497-2205-5-ND	Low Noise, J-Fet Quad Op Amp	14-Dip	.77	.62	.51
TL074IDT	497-4056-1-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	.90	.72	.54
TL074IDT	497-4056-2-ND	Low Noise, J-Fet Quad Op Amp	14-SOIC	712.50/2,500		
TL074IN	497-2206-5-ND	Low Noise, J-Fet Quad Op Amp	14-Dip	.99	.80	.55
TL081ACDT	497-2207-1-ND	J-Fet Single Op Amp	8-SOIC	1.13	.82	.63
TL081ACDT	497-2207-2-ND	J-Fet Single Op Amp	8-SOIC	890.00/2,500		
TL081CDT	497-2208-1-ND	J-Fet Single Op Amp	8-SOIC	.90	.72	.54
TL081CDT	497-2208-2-ND	J-Fet Single Op Amp	8-SOIC	712.50/2,500		
TL081CN	497-2209-5-ND	J-Fet Single Op Amp	8-Dip	.70	.56	.42
TL081IDT	497-2210-1-ND	J-Fet Single Op Amp	8-SOIC	.77	.62	.51
TL081IDT	497-2210-2-ND	J-Fet Single Op Amp	8-SOIC	605.00/2,500		
TL082ACDT	497-2211-1-ND	J-Fet Dual Op Amp	8-SOIC	.86	.69	.52
TL082ACDT	497-2211-2-ND	J-Fet Dual Op Amp	8-SOIC	677.50/2,500		
TL082CDT	497-2212-1-ND	J-Fet Dual Op Amp	8-SOIC	.99	.80	.60
TL082CDT	497-2212-2-ND	J-Fet Dual Op Amp	8-SOIC	487.50/2,500		
TL082CN	497-2213-5-ND	J-Fet Dual Op Amp	8-Dip	.65	.52	.39
TL082CPT	497-4057-1-ND	J-Fet Dual Op Amp	8-TSSOP	.81	.65	.49
TL082CPT	497-4057-2-ND	J-Fet Dual Op Amp	8-TSSOP	1028.00/4,000		
TL082IN	497-3032-5-ND	J-Fet Dual Op Amp	8-Dip	.86	.70	.52
TL082IDT	497-2214-1-ND	J-Fet Dual Op Amp	8-SOIC	.95	.62	.48
TL082IDT	497-2214-2-ND	J-Fet Dual Op Amp	8-SOIC	712.50/2,500		
TL084ACDT	497-2215-1-ND	J-Fet Quad Op Amp	14-SOIC	1.01	.88	.68
TL084ACDT	497-2215-2-ND	J-Fet Quad Op Amp	14-SOIC	897.50/2,500		
TL084ACN	497-2216-5-ND	J-Fet Quad Op Amp	14-Dip	1.01	.88	.68
TL084AIDT	497-4752-1-ND	J-Fet Quad Op Amp ***NEW!***	14-SOIC	1.16	1.01	.78
TL084AIDT	497-4752-2-ND	J-Fet Quad Op Amp ***NEW!***	14-SOIC	1030.00/2,500		
TL084CD	497-3033-5-ND	J-Fet Quad Op Amp	14-SOIC	.81	.65	.49
TL084CDT	497-2217-1-ND	J-Fet Quad Op Amp	14-SOIC	.77	.62	.43
TL084CDT	497-2217-2-ND	J-Fet Quad Op Amp	14-SOIC	605.00/2,500		
TL084CN	497-2218-5-ND	J-Fet Quad Op Amp	14-Dip	.77	.62	.51
TL084CPT	497-2219-1-ND	J-Fet Quad Op Amp	14-TSSOP	.99	.80	.60
TL084CPT	497-2219-2-ND	J-Fet Quad Op Amp	14-TSSOP	785.00/2,500		
TL084IDT	497-2220-1-ND	J-Fet Quad Op Amp	14-SOIC	1.05	.69	.53
TL084IDT	497-2220-2-ND	J-Fet Quad Op Amp	14-SOIC	787.50/2,500		
TL084IN	497-2221-5-ND	J-Fet Quad Op Amp	14-Dip	.99	.80	.60
TL431ACDT	497-3034-1-ND	Programmable Voltage Reference	8-SOIC	.68	.54	.41
TL431ACDT	497-3034-2-ND	Programmable Voltage Reference	8-SOIC	535.00/2,500		
TL431ACZ	497-3035-5-ND	Programmable Voltage Reference	TO-92	.70	.56	.42
TL431AIDT	497-2225-1-ND	Programmable Voltage Reference	8-SOIC	.48	.38	.29
TL431AIDT	497-2225-2-ND	Programmable Voltage Reference	8-SOIC	357.50/2,500		
TL431AIZT	497-2226-1-ND	Programmable Voltage Reference	TO-92	.48	.38	.29
TL431AIZT	497-2226-2-ND	Programmable Voltage Reference	TO-92	304.00/2,000		
TL431CDT	497-3036-1-ND	Programmable Voltage Reference	8-SOIC	.70	.56	.42
TL431CDT	497-3036-2-ND	Programmable Voltage Reference	8-SOIC	525.00/2,500		
TL431IDT	497-2227-1-ND	Programmable Voltage Reference	8-SOIC	.55	.34	.26
TL431IDT	497-2227-2-ND	Programmable Voltage Reference	8-SOIC	362.50/2,500		
TL431IZT	497-2228-1-ND	Programmable Voltage Reference	TO-92	.60	.48	.36
TL431IZT	497-2228-2-ND	Programmable Voltage Reference	TO-92	384.00/2,000		
TL1431ACDT	497-2222-1-ND	Programmable Voltage Reference	8-SOIC	.86	.69	.52
TL1431ACDT	497-2222-2-ND	Programmable Voltage Reference	8-SOIC	677.50/2,500		
TL1431ACZT	497-2223-1-ND	Programmable Voltage Reference	TO-92	.86	.69	.52
TL1431ACZT	497-2223-2-ND	Programmable Voltage Reference	TO-92	542.00/2,000		
TL1431AIDT	497-2224-1-ND	Programmable Voltage Reference	8-SOIC	.90	.72	.54
TL1431AIDT	497-2224-2-ND	Programmable Voltage Reference	8-SOIC	712.50/2,500		
TL1431IDT	497-4058-1-ND	Programmable Voltage Reference	8-SOIC	.86	.69	.52
TL1431IDT	497-4058-2-ND	Programmable Voltage Reference	8-SOIC	677.50/2,500		
TL7702AID1/A	497-2229-5-ND	Supply Voltage Supervisor	8-SOIC	1.13	.98	.75
TL7705ACD1013TRA	497-2230-1-ND	5V, Supply Voltage Supervisor	8-SOIC	1.13	.98	.75
TL7705ACD1013TRA	497-2230-2-ND	5V, Supply Voltage Supervisor	8-SOIC	997.50/2,500		
TL7705ACP/A	497-3676-ND	5V, Supply Voltage Supervisor	8-Mini Dip	1.13	.98	.75
TL7705AID1013TRA	497-3677-1-ND	5V, Supply Voltage Supervisor	8-SOIC	1.13	.98	.75
TL7705AID1013TRA	497-3677-2-ND	5V, Supply Voltage Supervisor	8-SOIC	997.50/2,500		
TS3V339IDT	497-2278-1-ND	3V, Micropower Quad CMOS Voltage Comparator	14-SOIC	.98	.85	.65
TS27L2AID	497-2250-5-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.89	1.58	1.33
TS27L2IDT	497-2251-1-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.20	1.04	.80
TS27L2IDT	497-2251-2-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1065.00/2,500		
TS27L4AID	497-2252-5-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.95	1.63	1.37
TS27L4AIN	497-2253-5-ND	Low Power, CMOS Quad Op Amp	14-Dip	1.95	1.63	1.37
TS27L4CN	497-2254-5-ND	Low Power, CMOS Quad Op Amp	14-Dip	1.01	.88	.68
TS27L4IDT	497-2255-1-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.31	1.14	.88
TS27L4IDT	497-2255-2-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1165.00/2,500		
TS27L4IN	497-2256-5-ND	Low Power, CMOS Quad Op Amp	14-Dip	1.43	1.24	.95
TS27M2AIDT	497-2257-1-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.35	1.17	.90
TS27M2AIDT	497-2257-2-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1197.50/2,500		
TS27M2AIN	497-2258-5-ND	Low Power, CMOS Dual Op Amp	8-Dip	1.69	1.47	1.13
TS27M2BIDT	497-4445-1-ND	Low Power, CMOS Dual Op Amp	8-SOIC	2.55	2.13	1.79
TS27M2BIDT	497-4445-2-ND	Low Power, CMOS Dual Op Amp	8-SOIC	2762.50/2,500		
TS27M2IDT	497-2259-1-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1.31	1.14	.88
TS27M2IDT	497-2259-2-ND	Low Power, CMOS Dual Op Amp	8-SOIC	1165.00/2,500		
TS27M2IN	497-2260-5-ND	Low Power, CMOS Dual Op Amp	8-Dip	1.35	1.17	.90
TS27M4AID	497-2261-5-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.56	1.30	1.10
TS27M4IDT	497-2262-1-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1.50	1.25	1.05
TS27M4IDT	497-2262-2-ND	Low Power, CMOS Quad Op Amp	14-SOIC	1625.00/2,500		
TS27M4IN	497-2263-5-ND	Low Power, CMOS Quad Op Amp	14-Dip	1.73	1.50	1.15
TS271ACDT	497-2242-1-ND	CMOS Prog. LP Single Op Amp	8-SOIC	1.24	1.08	.83
TS271ACDT	497-2242-2-ND	CMOS Prog. LP Single Op Amp	8-SOIC	1097.50/2,500		
TS271ACN	497-2243-5-ND	CMOS Prog. LP Single Op Amp	8-Dip	1.24	1.08	.83
TS271IDT	497-2244-1-ND	CMOS Prog. LP Single Op Amp	8-SOIC	.94	.82	.63
TS271IDT	497-2244-2-ND	CMOS Prog. LP Single Op Amp	8-SOIC	832.50/2,500		
TS272AID	497-2245-5-ND	CMOS Dual Op Amp	8-SOIC	1.35	1.17	.90
TS272AIN	497-2246-5-ND	CMOS Dual Op Amp	8-Dip	1.50	1.30	1.00
TS272CD	497-3037-5-ND	CMOS Dual Op Amp	8-SOIC	1.35	1.17	.90
TS272IDT	497-2247-1-ND	CMOS Dual Op Amp	8-SOIC	1.73	1.50	1.15
TS272IDT	497-2247-2-ND	CMOS Dual Op Amp	8-SOIC	1530.00/2,500		
TS274AID	497-2248-5-ND	CMOS Quad Op Amp	14-SOIC	2.24	1.87	1.58
TS274CDT	497-4060-1-ND	CMOS Quad Op Amp	14-SOIC	1.05	.91	.70
TS274CDT	497-4060-2-ND	CMOS Quad Op Amp	14-SOIC	930.00/2,500		
TS274IDT	497-2249-1-ND	CMOS Quad Op Amp	14-SOIC	1.73	1.50	1.15
TS274IDT	497-2249-2-ND	CMOS Quad Op Amp	14-SOIC	1530.00/2,500		
TS321ILT	497-4061-1-ND	Low Power Single Op Amp	SOT-23-5	.70	.56	.42
TS321ILT	497-4061-2-ND	Low Power Single Op Amp	SOT-23-5	630.00/3,000		
TS339CPT	497-4062-1-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	.72	.58	.44
TS339CPT	497-4062-2-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	570.00/2,500		
TS339IDT	497-2264-1-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	.98	.85	.65
TS339IDT	497-2264-2-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	865.00/2,500		
TS339IN	497-2265-5-ND	Micropower Quad CMOS Voltage Comparator	14-Dip	1.09	.95	.73
TS339IPT	497-2266-1-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	1.35	1.17	.90
TS339IPT	497-2266-2-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	1197.50/2,500		
TS372IDT	497-2271-1-ND	LP, Dual CMOS Voltage Comparator	8-SOIC	1.31	1.14	.88
TS372IDT	497-2271-2-ND	LP, Dual CMOS Voltage Comparator	8-SOIC	1165.00/2,500		
TS372IN	497-2272-5-ND	LP, Dual CMOS Voltage Comparator	8-Dip	1.21	1.05	.81
TS374IDT	497-2273-1-ND	LP, Quad CMOS Voltage Comparator	14-SOIC	.98	.85	.65
TS374IDT	497-2273-2-ND	LP, Quad CMOS Voltage Comparator	14-SOIC	865.00/2,500		
TS374IN	497-2274-5-ND	LP, Quad CMOS Voltage Comparator	14-Dip	1.91	1.66	1.28
TS391ILT	497-2275-1-ND	LP, Single Voltage Comparator	SOT-23-5L	.86	.69	.52
TS391ILT	497-2275-2-ND	LP, Single Voltage Comparator	SOT-23-5L	813.00/3,000		
TS393IDT	497-2276-1-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	.99	.80	.60
TS393IDT	497-2276-2-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	785.00/2,500		
TS393IN	497-2277-5-ND	Micropower Dual CMOS Voltage Comparator	8-Dip	1.39	1.21	.93
TS419IDT	497-4065-1-ND	360mW Mono Amp	8-SOIC	1.46	1.27	.98
TS419IDT	497-4065-2-ND	360mW Mono Amp	8-SOIC	1297.50/2,500		
TS419IST	497-4448-1-ND	360mW Mono Amp	8-Mini SOIC	1.46	1.27	.98
TS419IST	497-4448-2-ND	360mW Mono Amp	8-Mini SOIC	2076.00/4,000		
TS421IDT	497-4066-1-ND	360mW Mono Amp	8-SOIC	1.46	1.27	.98
TS421IDT	497-4066-2-ND	360mW Mono Amp	8-SOIC	1297.50/2,500		
TS421IST	497-4449-1-ND	360mW Mono Amp	8-Mini SOIC	1.46	1.27	.98
TS421IST	497-4449-2-ND	360mW Mono Amp	8-Mini SOIC	2076.00/4,000		
TS431AILT	497-2279-1-ND	Low Voltage, Adj. Shunt Reference	SOT-23-5	1.13	.98	.75
TS431AILT	497-2279-2-ND	Low Voltage, Adj. Shunt Reference	SOT-23-5	1197.00/3,000		
TS432AILT	497-2280-1-ND	1.24V, Adj. Shunt Voltage Reference	SOT-23	1.05	.91	.70
TS432AILT	497-2280-2-ND	1.24V, Adj. Shunt Voltage Reference	SOT-23	1116.00/3,000		
TS461CD	497-3039-5-ND	Output Rail-to-Rail Op Amp	8-SOIC	.72	.58	.44
TS461CDT	497-2281-1-ND	Output Rail-to-Rail Op Amp	8-SOIC	.72	.58	.44
TS461CDT	497-2281-2-ND	Output Rail-to-Rail Op Amp	8-SOIC	570.00/2,500		
TS461CLT	497-2282-1-ND	Output Rail-to-Rail Op Amp	SOT-23-5	1.08	.87	.65
TS461CLT	497-2282-2-ND	Output Rail-to-Rail Op Amp	SOT-23-5	1026.00/3,000		
TS462CDT	497-2283-1-ND	Output Rail-to-Rail Op Amp	8-SOIC	.95	.76	.57
TS462CDT	497-2283-2-ND	Output Rail-to-Rail Op Amp	8-SOIC	747.50/2,500		
TS462CN	497-2284-5-ND	Output Rail-to-Rail Op Amp	8-Dip	.95	.76	.57
TS462CPT	497-4067-1-ND	Output Rail-to-Rail Op Amp	8-TSSOP	.94	.82	.63
TS462CPT	497-4067-2-ND	Output Rail-to-Rail Op Amp	8-TSSOP	1332.00/4,000		
TS464CD	497-3040-5-ND	Output Rail-to-Rail Op Amp	14-SOIC	1.05	.91	.70
TS464CDT	497-2285-1-ND	Output Rail-to-Rail Op Amp	14-SOIC	1.05	.91	.70
TS464CDT	497-2285-2-ND	Output Rail-to-Rail Op Amp	14-SOIC	930.00/2,500		
TS464CN	497-2286-5-ND	Output Rail-to-Rail Op Amp	14-Dip	1.05	.91	.70
TS472EIJT	497-4985-1-ND	LN Microphone Preamp ***NEW!***	FlipChip	1.54	1.34	1.03
TS472EIJT	497-4985-2-ND	LN Microphone Preamp ***NEW!***	FlipChip	2615.00/5,000		
TS482IDT	497-2287-1-ND	100mW, Stereo Headphone Amp	8-SOIC	1.08	.87	.65
TS482IDT	497-2287-2-ND	100mW, Stereo Headphone Amp	8-SOIC	855.00/2,500		
TS482IQT	497-2288-1-ND	100mW, Stereo Headphone Amp	8-DFN	1.05	.91	.70
TS482IQT	497-2288-2-ND	100mW, Stereo Headphone Amp	8-DFN	1116.00/3,000		
TS486-1IST	497-4450-1-ND	100mW, Stereo Headphone Amp	8-Mini SOIC	1.43	1.24	.95
TS486-1IST	497-4450-2-ND	100mW, Stereo Headphone Amp	8-Mini SOIC	2020.00/4,000		
TS486ID	497-3041-5-ND	100mW, Stereo Headphone Amp	8-SOIC	1.43	1.24	.95
TS486IDT	497-2289-1-ND	100mW, Stereo Headphone Amp	8-SOIC	1.43	1.24	.95
TS486IDT	497-2289-2-ND	100mW, Stereo Headphone Amp	8-SOIC	1262.50/2,500		
TS487ID	497-2291-5-ND	100mW, Stereo Headphone Amp	8-SOIC	1.69	1.47	1.13
TS512AIDT	497-2295-1-ND	Dual Op Amp	8-SOIC	1.50	1.30	1.00
TS512AIDT	497-2295-2-ND	Dual Op Amp	8-SOIC	1330.00/2,500		
TS512IDT	497-2296-1-ND	Dual Op Amp	8-SOIC	1.16	1.01	.78

(Continued)

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TS512IDT	497-2296-2-ND	Dual Op Amp	8-SOIC	1030.00/2,500		
TS514AIDT	497-4453-1-ND	Precision Quad Op Amp	14-SOIC	1.77	1.48	1.24
TS514AIDT	497-4453-2-ND	Precision Quad Op Amp	14-SOIC	1917.50/2,500		
TS522ID	497-3042-5-ND	Low Noise, Dual Op Amp	8-SOIC	1.28	1.11	.85
TS522IDT	497-2297-1-ND	Low Noise, Dual Op Amp	8-SOIC	1.28	1.11	.85
TS522IDT	497-2297-2-ND	Low Noise, Dual Op Amp	8-SOIC	1130.00/2,500		
TS555CDT	497-3043-1-ND	Low Power, Single CMOS Timer	8-SOIC	.90	.72	.54
TS555CDT	497-3043-2-ND	Low Power, Single CMOS Timer	8-SOIC	712.50/2,500		
TS555CN	497-3044-5-ND	Low Power, Single CMOS Timer	8-Dip	.76	.61	.46
TS555ID	497-3045-5-ND	Low Power, Single CMOS Timer	8-SOIC	.70	.57	.43
TS555IDT	497-2298-1-ND	Low Power, Single CMOS Timer	8-SOIC	.90	.72	.54
TS555IDT	497-2298-2-ND	Low Power, Single CMOS Timer	8-SOIC	487.50/2,500		
TS555IN	497-2299-5-ND	Low Power, Single CMOS Timer	8-Dip	.72	.58	.44
TS555IPT	497-4069-1-ND	Low Power, Single CMOS Timer	8-TSSOP	.90	.72	.54
TS555IPT	497-4069-2-ND	Low Power, Single CMOS Timer	8-TSSOP	1140.00/4,000		
TS556IDT	497-2300-1-ND	Low Power, Dual CMOS Timer	14-SOIC	1.24	1.08	.83
TS556IDT	497-2300-2-ND	Low Power, Dual CMOS Timer	14-SOIC	1097.50/2,500		
TS556IN	497-2301-5-ND	Low Power, Dual CMOS Timer	14-Dip	1.08	.87	.65
TS613IDT	497-2302-1-ND	Dual Wide Band Op Amp	8-SOIC	5.13	4.47	3.33
TS613IDT	497-2302-2-ND	Dual Wide Band Op Amp	8-SOIC	6080.00/2,500		
TS616IDW	497-4454-5-ND	Dual Wide Band Op Amp	8-TSSOP	5.10	4.45	3.31
TS616IDWT	497-4455-1-ND	Dual Wide Band Op Amp	8-TSSOP	5.10	4.45	3.31
TS616IDWT	497-4455-2-ND	Dual Wide Band Op Amp	8-TSSOP	6047.50/2,500		
TS822ILT	497-2303-1-ND	2.5V, Micropower Shunt Voltage Ref.	SOT-23	1.04	.83	.63
TS822ILT	497-2303-2-ND	2.5V, Micropower Shunt Voltage Ref.	SOT-23	984.00/3,000		
TS822IZT	497-2304-1-ND	2.5V, Micropower Shunt Voltage Ref.	TO-92	1.04	.83	.63
TS822IZT	497-2304-2-ND	2.5V, Micropower Shunt Voltage Ref.	TO-92	714.00/2,000		
TS824ILT-1.2	497-2305-1-ND	Micropower Shunt Voltage Reference	SOT-23	1.56	1.30	1.10
TS824ILT-1.2	497-2305-2-ND	Micropower Shunt Voltage Reference	SOT-23	2028.00/3,000		
TS831-3IZT	497-2306-1-ND	Micropower Voltage Supervisor	TO-92	.86	.69	.52
TS831-3IZT	497-2306-2-ND	Micropower Voltage Supervisor	TO-92	590.00/2,000		
TS831-5IDT	497-4070-1-ND	Micropower Voltage Supervisor Reset Active Low	8-SOIC	.95	.76	.57
TS831-5IDT	497-4070-2-ND	Micropower Voltage Supervisor Reset Active Low	8-SOIC	747.50/2,500		
TS831-5IZT	497-2307-1-ND	Micropower Voltage Supervisor	TO-92	.95	.69	.53
TS831-5IZT	497-2307-2-ND	Micropower Voltage Supervisor	TO-92	652.00/2,000		
TS834-5IDT	497-4071-1-ND	Micropower Volt. Supervisor Reset Active Low or High Integrated Timer	8-SOIC	1.05	.91	.70
TS834-5IDT	497-4071-2-ND	Micropower Volt. Supervisor Reset Active Low or High Integrated Timer	8-SOIC	930.00/2,500		
TS861AILT	497-2308-1-ND	R/R, Micropower BiCMOS Comp.	SOT-23-5	1.31	1.14	.88
TS861AILT	497-2308-2-ND	R/R, Micropower BiCMOS Comp.	SOT-23-5	1398.00/3,000		
TS861AIN	497-2309-5-ND	R/R, Micropower BiCMOS Comp.	8-Dip	1.31	1.14	.88
TS861IDT	497-4072-1-ND	R/R, Micropower BiCMOS Comparator	8-SOIC	1.86	1.55	1.31
TS861IDT	497-4072-2-ND	R/R, Micropower BiCMOS Comparator	8-SOIC	2015.00/2,500		
TS864AIDT	497-4073-1-ND	R/R, Micropower BiCMOS Comparator	14-SOIC	2.16	1.80	1.52
TS864AIDT	497-4073-2-ND	R/R, Micropower BiCMOS Comparator	14-SOIC	2340.00/2,500		
TS912AIDT	497-2310-1-ND	R/R, CMOS Dual Op Amp	8-SOIC	1.73	1.50	1.15
TS912AIDT	497-2310-2-ND	R/R, CMOS Dual Op Amp	8-SOIC	1530.00/2,500		
TS914AIDT	497-2311-1-ND	R/R, CMOS Quad Op Amp	14-SOIC	2.33	2.02	1.55
TS914AIDT	497-2311-2-ND	R/R, CMOS Quad Op Amp	14-SOIC	2015.00/2,500		
TS914ID	497-2312-5-ND	R/R, CMOS Quad Op Amp	14-SOIC	1.93	1.61	1.36
TS921IDT	497-4074-1-ND	R/R, High Output Current Single Op Amp	8-SOIC	1.54	1.34	1.03
TS921IDT	497-4074-2-ND	R/R, High Output Current Single Op Amp	8-SOIC	1362.50/2,500		
TS921IN	497-4075-5-ND	R/R, High Output Current Single Op Amp	8-Dip	1.54	1.34	1.03
TS922AID	497-2313-5-ND	R/R, High Output Current Dual Op Amp	8-SOIC	2.21	1.92	1.48
TS922ID	497-3048-5-ND	R/R, High Output Current Dual Op Amp	8-SOIC	1.77	1.48	1.24
TS922IN	497-3049-5-ND	R/R, High Output Current Dual Op Amp	8-Dip	1.77	1.48	1.24
TS924AID	497-2314-5-ND	R/R, High Output Current Quad Op Amp	14-SOIC	2.79	2.33	1.96
TS925AIPT	497-4076-1-ND	R/R, High Output Current Quad Op Amp	16-TSSOP	2.97	2.48	2.08
TS925AIPT	497-4076-2-ND	R/R, High Output Current Quad Op Amp	16-TSSOP	3217.50/2,500		
TS925ID	497-3050-5-ND	R/R, High Output Current Quad Op Amp	16-SOIC	2.40	2.00	1.68
TS931ID	497-3051-5-ND	Output R/R Micropower Op Amp	8-SOIC	.95	.76	.57
TS931ILT	497-4077-1-ND	Output R/R Micropower Op Amp	SOT-23-5L	.95	.76	.57
TS931ILT	497-4077-2-ND	Output R/R Micropower Op Amp	SOT-23-5L	897.00/3,000		
TS932ID	497-3052-5-ND	Dual Output R/R Micropower Op Amp	8-SOIC	1.31	1.14	.88
TS934ID	497-3053-5-ND	Quad Output R/R Micropower Op Amp	14-SOIC	1.95	1.63	1.37
TS941ID	497-3054-5-ND	Output R/R Micropower Op Amp	8-SOIC	1.61	1.40	1.08
TS941ILT	497-4078-1-ND	Output R/R Micropower Op Amp	SOT-23-5L	1.61	1.40	1.08
TS941ILT	497-4078-2-ND	Output R/R Micropower Op Amp	SOT-23-5L	1716.00/3,000		
TS942AID	497-4456-5-ND	Output R/R Micropower Op Amp	8-SOIC	1.77	1.48	1.24
TS942AIDT	497-4457-1-ND	Output R/R Micropower Op Amp	8-SOIC	1.71	1.43	1.20
TS942AIDT	497-4457-2-ND	Output R/R Micropower Op Amp	8-SOIC	1852.50/2,500		
TS951ID	497-3055-5-ND	In/Out, R/R, Low Power Op Amp	8-SOIC	1.35	1.17	.90
TS951ILT	497-4079-1-ND	In/Out, R/R Low Power Op Amp	SOT-23-5L	1.09	.95	.73
TS951ILT	497-4079-2-ND	In/Out, R/R Low Power Op Amp	SOT-23-5L	1158.00/3,000		
TS952ID	497-3056-5-ND	In/Out, R/R, Low Power Op Amp	8-SOIC	1.16	1.01	.78
TS952IDT	497-2315-1-ND	In/Out, R/R, Low Power Op Amp	8-SOIC	1.16	1.01	.78
TS952IDT	497-2315-2-ND	In/Out, R/R, Low Power Op Amp	8-SOIC	1030.00/2,500		
TS952IYDT	497-4777-1-ND	In/Out, R/R, LP Op Amp ***NEW!***	8-SOIC	1.43	1.24	.95
TS952IYDT	497-4777-2-ND	In/Out, R/R, LP Op Amp ***NEW!***	8-SOIC	1262.50/2,500		
TS954ID	497-2316-5-ND	In/Out, R/R, Low Power Op Amp	14-SOIC	2.10	1.75	1.47
TS971ID	497-3057-5-ND	Output R/R Low Noise Op Amp	8-SOIC	.90	.72	.54
TS972ID	497-3058-5-ND	Output R/R Low Noise Op Amp	8-SOIC	.98	.85	.65
TS972IDT	497-2317-1-ND	Output R/R Low Noise Op Amp	8-SOIC	.98	.85	.65
TS972IDT	497-2317-2-ND	Output R/R Low Noise Op Amp	8-SOIC	865.00/2,500		
TS974ID	497-3059-5-ND	Output R/R Low Noise Op Amp	14-SOIC	1.43	1.24	.95
TS974IDT	497-2318-1-ND	Output R/R Low Noise Op Amp	14-SOIC	1.43	1.24	.95
TS974IDT	497-2318-2-ND	Output R/R Low Noise Op Amp	14-SOIC	1262.50/2,500		
TS974IPT	497-2319-1-ND	Output R/R Low Noise Op Amp	14-TSSOP	1.43	1.24	.95
TS974IPT	497-2319-2-ND	Output R/R Low Noise Op Amp	14-TSSOP	1262.50/2,500		
TS1851AIDT	497-4530-1-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	1.68	1.40	1.18
TS1851AIDT	497-4530-2-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	1820.00/2,500		
TS1851AILT	497-4531-1-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	1.68	1.40	1.18
TS1851AILT	497-4531-2-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	2184.00/3,000		
TS1851ID	497-2231-5-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	1.65	1.38	1.16
TS1851IDT	497-2231-1-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	1.65	1.38	1.16
TS1851IDT	497-2231-2-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	1787.50/2,500		
TS1852AIDT	497-4533-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-SOIC	2.28	1.90	1.60
TS1852AIDT	497-4533-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-SOIC	2470.00/2,500		
TS1852AIST	497-4443-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-Mini SOIC	2.28	1.90	1.60
TS1852AIST	497-4443-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-Mini SOIC	3952.00/4,000		
TS1852ID	497-2232-5-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-SOIC	1.92	1.60	1.35
TS1852IDT	497-2232-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-SOIC	1.92	1.60	1.35
TS1852IDT	497-2232-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-SOIC	2080.00/2,500		
TS1852IN	497-2233-5-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-Dip	1.92	1.60	1.35
TS1854AIDT	497-4535-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.70	2.25	1.89
TS1854AIDT	497-4535-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2925.00/2,500		
TS1854ID	497-2234-5-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.70	2.25	1.89
TS1854IDT	497-2234-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.70	2.25	1.89
TS1854IDT	497-2234-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2925.00/2,500		
TS1854IN	497-2235-5-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-Dip	2.70	2.25	1.89
TS1871AIDT	497-4537-1-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2.70	2.25	1.89
TS1871AIDT	497-4537-2-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2925.00/2,500		
TS1871AILT	497-4538-1-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	2.70	2.25	1.89
TS1871AILT	497-4538-2-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	3510.00/3,000		
TS1871ID	497-2236-5-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2.22	1.85	1.56
TS1871IDT	497-4539-1-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2.22	1.85	1.56
TS1871IDT	497-4539-2-ND	1.8V, In/Out, R/R, LP Op Amp	8-SOIC	2405.00/2,500		
TS1871ILT	497-2237-1-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	2.22	1.85	1.56
TS1871ILT	497-2237-2-ND	1.8V, In/Out, R/R, LP Op Amp	SOT-23-5	2886.00/3,000		
TS1872AIDT	497-4540-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-SOIC	2.40	2.00	1.68
TS1872AIDT	497-4540-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-SOIC	2600.00/2,500		
TS1872AIST	497-4444-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-Mini SOIC	2.40	2.00	1.68
TS1872AIST	497-4444-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-Mini SOIC	4160.00/4,000		
TS1872ID	497-2238-5-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-SOIC	2.22	1.85	1.56
TS1872IDT	497-2238-1-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-SOIC	2.37	1.98	1.66
TS1872IDT	497-2238-2-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-SOIC	2567.50/2,500		
TS1872IN	497-2239-5-ND	1.8V, Dual, In/Out, R/R, LP Op Amp	8-Dip	2.37	1.98	1.66
TS1874AIDT	497-4542-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	3.51	3.06	2.28
TS1874AIDT	497-4542-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	4160.00/2,500		
TS1874ID	497-2240-5-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.94	2.45	2.06
TS1874IDT	497-2240-1-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	2.94	2.45	2.06
TS1874IDT	497-2240-2-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-SOIC	3185.00/2,500		
TS1874IN	497-2241-5-ND	1.8V, Quad, In/Out, R/R, LP Op Amp	14-Dip	2.94	2.45	2.06
TS2431BILT	497-4059-1-ND	Prog. Shunt Voltage Reference	SOT-23	1.20	1.04	.80
TS2431BILT	497-4059-2-ND	Prog. Shunt Voltage Reference	SOT-23	1278.00/3,000		
TS3431BILT	497-4446-1-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	.60	.48	.36
TS3431BILT	497-4446-2-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	540.00/3,000		
TS3431BIZT	497-4447-1-ND	1.24V Prog. Shunt Voltage Reference	TO-92	.60	.48	.36
TS3431BIZT	497-4447-2-ND	1.24V Prog. Shunt Voltage Reference	TO-92	384.00/2,000		
TS3431CILT	497-4637-1-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	.70	.56	.42
TS3431CILT	497-4637-2-ND	1.24V Prog. Shunt Voltage Reference	SOT-23	630.00/3,000		
TS3702ID	497-3038-5-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	1.39	1.21	.93
TS3702IDT	497-2267-1-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	1.05	.91	.76
TS3702IDT	497-2267-2-ND	Micropower Dual CMOS Voltage Comparator	8-SOIC	930.00/2,500		
TS3702IN	497-2268-5-ND	Micropower Dual CMOS Voltage Comparator	8-Dip	1.05	.91	.70
TS3704CDT	497-4063-1-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	.90	.72	.54
TS3704CDT	497-4063-2-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	712.50/2,500		
TS3704IDT	497-2269-1-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	.98	.85	.65
TS3704IDT	497-2269-2-ND	Micropower Quad CMOS Voltage Comparator	14-SOIC	865.00/2,500		
TS3704IN	497-2270-5-ND	Micropower Quad CMOS Voltage Comparator	14-Dip	1.13	.98	.75
TS3704IPT	497-4064-1-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	1.09	.95	.73
TS3704IPT	497-4064-2-ND	Micropower Quad CMOS Voltage Comparator	14-TSSOP	965.00/2,500		
TS4871ID	497-2290-5-ND	1W, R/R Output Audio Power Amp	8-SOIC	1.84	1.60	1.23
TS4871IST	497-4068-1-ND	1W, R/R Output Audio Power Amp	8-TSSOP	1.84	1.60	1.23
TS4871IST	497-4068-2-ND	1W, R/R Output Audio Power Amp	8-TSSOP	2608.00/4,000		
TS4890ID	497-2292-5-ND	1W, R/R Output Audio Power Amp	8-SOIC	1.95	1.63	1.37
TS4902ID	497-2294-5-ND	300mW, 3.3V Supply Audio Power Amp	8-SOIC	1.05	.91	.70
TS4962MEIJT	497-4986-1-ND	3W Filter Free Class D Audio Power Amp ***NEW!***	FlipChip	1.43	1.24	.95
TS4962MEIJT	497-4986-2-ND	3W Filter Free Class D Audio Power Amp ***NEW!***	FlipChip	2425.00/5,000		
TS4984EIJT	497-4677-1-ND	2x1W Stereo Audio Power Amp ***NEW!***	15-FlipChip	1.65	1.38	1.16
TS4984EIJT	497-4677-2-ND	2x1W Stereo Audio Power Amp ***NEW!***	15-FlipChip	3505.00/5,000		
TS4985EIJT	497-4678-1-ND	2x1.2W Stereo Audio Power Amp	15-FlipChip	2.94	2.45	2.06
TS4985EIJT	497-4678-2-ND	2x1.2W Stereo Audio Power Amp	15-FlipChip	6250.00/5,000		
TS4990IST	497-4451-1-ND	1.2W Audio Power Amp	8-Mini SOIC	1.62	1.35	1.14
TS4990IST	497-4451-2-ND	1.2W Audio Power Amp	8-Mini SOIC	2808.00/4,000		
TS4994IST	497-4452-1-ND	1.2W Diff. Input Audio Power Amp	8-Mini SOIC	2.46	2.05	1.73
TS4994IST	497-4452-2-ND	1.2W Diff. Input Audio Power Amp	8-Mini SOIC	4264.00/4,000		
TS7211AILT	497-3046-1-ND	BiCMOS Rail-to-Rail Micropower Comparator	SOT-23-5	1.35	1.17	.90
TS7211AILT	497-3046-2-ND	BiCMOS Rail-to-Rail Micropower Comparator	SOT-23-5	1437.00/3,000		

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TS7221AILT	497-3047-1-ND	BiCMOS Rail-to-Rail Micropower Comparator	SOT-23-5	1.35	1.17	.90
TS7221AILT	497-3047-2-ND	BiCMOS Rail-to-Rail Micropower Comparator	SOT-23-5	1437.00/3,000		
TSA1203IF	497-4125-ND	Dual-Ch., 12-Bit, 40MSPS ADC	48-TQFP	33.08	28.35	25.14
TSA1401IF	497-4458-ND	14-Bit, 20MSPS, 85mW ADC	48-TQFP	50.75	43.50	38.57
TSH10ID	497-3060-5-ND	140MHz Bandwidth, LN, Op Amp	8-SOIC	1.69	1.47	1.13
TSH11ID	497-3065-5-ND	120MHz Bandwidth MOS Input Op Amp	8-SOIC	1.84	1.60	1.23
TSH22IDT	497-2320-1-ND	Dual Bipolar Op Amp	8-SOIC	1.65	1.38	1.16
TSH22IDT	497-2320-2-ND	Dual Bipolar Op Amp	8-SOIC	1097.50/2,500		
TSH24IDT	497-2321-1-ND	Quad Bipolar Op Amp	14-SOIC	1.35	1.17	.90
TSH24IDT	497-2321-2-ND	Quad Bipolar Op Amp	14-SOIC	1197.50/2,500		
TSH31ID	497-3068-5-ND	280MHz Bandwidth MOS Input Op Amp	8-SOIC	2.01	1.68	1.41
TSH70CD	497-3070-5-ND	Wideband, Low Power Op Amp	8-SOIC	1.50	1.25	1.05
TSH72CD	497-2324-5-ND	Wideband, Low Power Dual Op Amp	8-SOIC	1.74	1.45	1.22
TSH72CPT	497-4080-1-ND	Wideband, Low Power Dual Op Amp	8-TSSOP	1.74	1.45	1.22
TSH72CPT	497-4080-2-ND	Wideband, Low Power Dual Op Amp	8-TSSOP	3016.00/4,000		
TSH74CD	497-2325-5-ND	Wideband, Low Power Op Amp	14-SOIC	3.51	3.06	2.28
TSH80ID	497-2326-5-ND	Wideband, Rail-to-Rail Op Amp	8-SOIC	1.50	1.30	1.00
TSH81ID	497-2327-5-ND	Wideband, Rail-to-Rail Op Amp	8-SOIC	1.50	1.30	1.00
TSH82ID	497-2328-5-ND	Wideband, Rail-to-Rail Op Amp	8-SOIC	1.62	1.35	1.14
TSH93ID	497-3071-5-ND	High Speed, LP Triple Op Amp	14-SOIC	2.75	2.40	1.79
TSH94ID	497-3072-5-ND	High Speed, LP Quad Op Amp	16-SOIC	3.43	2.99	2.23
TSH95ID	497-2329-5-ND	High Speed, LP Quad Op Amp	16-SOIC	2.92	2.54	1.89
TSH110ILT	497-4459-1-ND	Wideband, Low Noise Op Amp	SOT-23-5	1.62	1.35	1.14
TSH110ILT	497-4459-2-ND	Wideband, Low Noise Op Amp	SOT-23-5	2106.00/3,000		
TSH111ID	497-3061-5-ND	Current Feedback Op Amp	8-SOIC	1.62	1.35	1.14
TSH111IPT	497-4460-1-ND	Current Feedback Op Amp	8-TSSOP	1.62	1.35	1.14
TSH111IPT	497-4460-2-ND	Current Feedback Op Amp	8-TSSOP	2808.00/4,000		
TSH112ID	497-3062-5-ND	Dual, Current Feedback Op Amp	8-SOIC	1.89	1.58	1.33
TSH112IPT	497-4461-1-ND	Dual, Current Feedback Op Amp	8-TSSOP	1.89	1.58	1.33
TSH112IPT	497-4461-2-ND	Dual, Current Feedback Op Amp	8-TSSOP	3276.00/4,000		
TSH113ID	497-3063-5-ND	Triple, Current Feedback Op Amp	14-SOIC	3.11	2.71	2.02
TSH114ID	497-3064-5-ND	Quad, Current Feedback Op Amp	14-SOIC	3.19	2.78	2.07
TSH150ID	497-3066-5-ND	Wide Bandwidth/Bipolar In Op Amp	8-SOIC	5.08	4.42	3.29
TSH151ID	497-3067-5-ND	Wide Bandwidth/MOS Input Op Amp	8-SOIC	5.37	4.68	3.49
TSH300IDT	497-4776-1-ND	Ultra Low Noise HS Op Amp ***NEW!***	8-SOIC	2.19	1.83	1.54
TSH300IDT	497-4776-2-ND	Ultra Low Noise HS Op Amp ***NEW!***	8-SOIC	2372.50/2,500		
TSH310IDT	497-4462-1-ND	400µA High Speed Op Amp	8-SOIC	1.74	1.45	1.22
TSH310IDT	497-4462-2-ND	400µA High Speed Op Amp	8-SOIC	1885.00/2,500		
TSH310ILT	497-4463-1-ND	400µA High Speed Op Amp	SOT-23-5	1.74	1.45	1.22
TSH310ILT	497-4463-2-ND	400µA High Speed Op Amp	SOT-23-5	2262.00/3,000		
TSH321ID	497-3069-5-ND	Wide Bandwidth/MOS Input Op Amp	8-SOIC	6.90	6.30	4.98
TSH330IDT	497-4464-1-ND	1.1GHz Low Noise Op Amp	8-SOIC	2.84	2.47	1.84
TSH330IDT	497-4464-2-ND	1.1GHz Low Noise Op Amp	8-SOIC	3360.00/2,500		
TSH340IDT	497-4679-1-ND	320MHz Single Supply Video Buffer ***NEW!***	8-SOIC	6.90	6.30	4.98
TSH340IDT	497-4679-2-ND	320MHz Single Supply Video Buffer ***NEW!***	8-SOIC	9450.00/2,500		
TSH341IDT	497-4680-1-ND	300MHz Single Supply Video Amp ***NEW!***	8-SOIC	6.90	6.30	4.98
TSH341IDT	497-4680-2-ND	300MHz Single Supply Video Amp ***NEW!***	8-SOIC	9450.00/2,500		
TSH343IDT	497-4987-1-ND	280MHz Single Supply Triple Video Buffer ***NEW!***	8-SOIC	2.31	1.93	1.62
TSH343IDT	497-4987-2-ND	280MHz Single Supply Triple Video Buffer ***NEW!***	8-SOIC	2502.50/2,500		
TSH344IDT	497-4988-1-ND	340MHz Single Supply Triple Video Buffer ***NEW!***	8-SOIC	2.31	1.93	1.62
TSH344IDT	497-4988-2-ND	340MHz Single Supply Triple Video Buffer ***NEW!***	8-SOIC	2502.50/2,500		
TSH350IDT	497-4465-1-ND	550MHz Low Noise Current Feedback Amp	8-SOIC	1.83	1.53	1.29
TSH350IDT	497-4465-2-ND	550MHz Low Noise Current Feedback Amp	8-SOIC	1982.50/2,500		
TSH350ILT	497-4466-1-ND	550MHz Low Noise Current Feedback Amp	SOT-23-5	1.74	1.45	1.22
TSH350ILT	497-4466-2-ND	550MHz Low Noise Current Feedback Amp	SOT-23-5	2262.00/3,000		
TSH511CF	497-2322-ND	Hi-Fi Stereo/Mono Infrared Receiver Stereo Sub-Carrier Demodulator	44-TQFP	4.59	4.00	2.98
TSH512CF	497-2323-ND	Hi-Fi Stereo/Mono Infrared Transmitter Stereo Sub-Carrier Generator	44-TQFP	4.59	4.00	2.98
TSL1014IFT	497-4774-1-ND	14+1 Channel BUffer for TFT-LCD Pannels ***NEW!***	48-TQFP	2.40	2.00	1.68
TSL1014IFT	497-4774-2-ND	14+1 Channel BUffer for TFT-LCD Pannels ***NEW!***	48-TQFP	2592.00/2,400		
TSM007IDT	497-4468-1-ND	Primary PWM Controller	8-SOIC	3.19	2.78	2.07
TSM007IDT	497-4468-2-ND	Primary PWM Controller	8-SOIC	3775.00/2,500		
TSM100IDT	497-2330-1-ND	Single Op Amp and Single Comparator	8-SOIC	.94	.82	.63
TSM100IDT	497-2330-2-ND	Single Op Amp and Single Comparator	8-SOIC	832.50/2,500		
TSM101AIDT	497-2331-1-ND	Voltage/Current Controller	8-SOIC	1.16	1.01	.78
TSM101AIDT	497-2331-2-ND	Voltage/Current Controller	8-SOIC	1030.00/2,500		
TSM102AIDT	497-4081-1-ND	Voltage/Current Controller	16-SOIC	1.31	1.14	.88
TSM102AIDT	497-4081-2-ND	Voltage/Current Controller	16-SOIC	1165.00/2,500		
TSM102ID	497-2332-5-ND	Voltage/Current Controller	16-SOIC	1.28	1.11	.85
TSM103AID	497-3104-ND	Dual Op Amp/Voltage Reference	8-SOIC	1.16	1.01	.78
TSM108ID	497-3073-5-ND	Automotive Switch Mode Voltage and Current Controller	14-SOIC	1.50	1.30	1.00
TSM108IDT	497-2333-1-ND	Automotive Switch Mode Voltage and Current Controller	14-SOIC	1.50	1.30	1.00
TSM108IDT	497-2333-2-ND	Automotive Switch Mode Voltage and Current Controller	14-SOIC	1330.00/2,500		
TSM109AIDT	497-4082-1-ND	Dual Comparator/Voltage Reference	8-SOIC	1.58	1.37	1.05
TSM109AIDT	497-4082-2-ND	Dual Comparator/Voltage Reference	8-SOIC	1397.50/2,500		
TSM109ID	497-3074-5-ND	Dual Comparator/Voltage Reference	8-SOIC	1.50	1.30	1.00
TSM111CN	497-2334-5-ND	Triple Voltage and Current Supervisor	20-Dip	2.16	1.80	1.52
TSM1011AIDT	497-4470-1-ND	Constant Voltage/Constant Current Controller	8-SOIC	1.35	1.17	.90
TSM1011AIDT	497-4470-2-ND	Constant Voltage/Constant Current Controller	8-SOIC	1197.50/2,500		

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
TSM1011AIST	497-4471-1-ND	Constant Voltage/Constant Current Controller	8-Mini SOIC	1.35	1.17	.90
TSM1011AIST	497-4471-2-ND	Constant Voltage/Constant Current Controller	8-Mini SOIC	1916.00/4,000		
TSM1012AIDT	497-4472-1-ND	Low Consumption Voltage/Current Controller	8-SOIC	1.95	1.63	1.37
TSM1012AIDT	497-4472-2-ND	Low Consumption Voltage/Current Controller	8-SOIC	2112.50/2,500		
TSM1012AIST	497-4473-1-ND	Low Consumption Voltage/Current Controller	8-Mini SOIC	1.95	1.63	1.37
TSM1012AIST	497-4473-2-ND	Low Consumption Voltage/Current Controller	8-Mini SOIC	3380.00/4,000		
TSM1013AIDT	497-4474-1-ND	Constant Voltage/Constant Current Controller	8-SOIC	1.95	1.63	1.37
TSM1013AIDT	497-4474-2-ND	Constant Voltage/Constant Current Controller	8-SOIC	2112.50/2,500		
TSM1013AIST	497-4475-1-ND	Constant Voltage/Constant Current Controller	8-Mini SOIC	1.95	1.63	1.37
TSM1013AIST	497-4475-2-ND	Constant Voltage/Constant Current Controller	8-Mini SOIC	3380.00/4,000		
TSM1014AIDT	497-4476-1-ND	Low Consumption Voltage/Current Controller	8-SOIC	1.95	1.63	1.37
TSM1014AIDT	497-4476-2-ND	Low Consumption Voltage/Current Controller	8-SOIC	2112.50/2,500		
TSM1014AIST	497-4477-1-ND	Low Consumption Voltage/Current Controller	8-Mini SOIC	1.95	1.63	1.37
TSM1014AIST	497-4477-2-ND	Low Consumption Voltage/Current Controller	8-Mini SOIC	3380.00/4,000		
TSM1051CD	497-4478-5-ND	Constant Voltage/Constant Current Controller	8-SOIC	1.01	.88	.68
TSM1121ID	497-2335-5-ND	3.3V, 5V, 12V Housekeeping IC	14-SOIC	1.69	1.47	1.13
TSV321IDT	497-4773-1-ND	GP, In/Out, R/R, LP Op Amp ***NEW!***	8-SOIC	1.35	1.17	.90
TSV321IDT	497-4773-2-ND	GP, In/Out, R/R, LP Op Amp ***NEW!***	8-SOIC	1197.50/2,500		
TSV358IDT	497-4772-1-ND	GP, In/Out, R/R, LP Op Amp ***NEW!***	8-SOIC	1.39	1.21	.93
TSV358IDT	497-4772-2-ND	GP, In/Out, R/R, LP Op Amp ***NEW!***	8-SOIC	1230.00/2,500		
TSV358IPT	497-4771-1-ND	GP, In/Out, R/R, LP Op Amp ***NEW!***	8-TSSOP	1.39	1.21	.93
TSV358IPT	497-4771-2-ND	GP, In/Out, R/R, LP Op Amp ***NEW!***	8-TSSOP	1968.00/4,000		
TSV358IST	497-4769-1-ND	GP, In/Out, R/R, LP Op Amp ***NEW!***	8-SOIC	1.39	1.21	.93
TSV358IST	497-4769-2-ND	GP, In/Out, R/R, LP Op Amp ***NEW!***	8-SOIC	1968.00/4,000		
TSX5070FN012TR	497-2336-1-ND	Prog. CODEC/Filter Combo 2nd Generation	28-PLCC	6.44	5.88	4.65
TSX5070FN012TR	497-2336-2-ND	Prog. CODEC/Filter Combo 2nd Generation	28-PLCC	1820.00/500		
UA741CDT	497-3075-1-ND	Single Op Amp	8-SOIC	.68	.54	.41
UA741CDT	497-3075-2-ND	Single Op Amp	8-SOIC	535.00/2,500		
UA741IDT	497-2337-1-ND	Single Op Amp	8-SOIC	.81	.65	.49
UA741IDT	497-2337-2-ND	Single Op Amp	8-SOIC	642.50/2,500		
UA748CN	497-4083-5-ND	Precision Single Op Amp	8-Dip	.99	.80	.60
UA748ID	497-4084-5-ND	Precision Single Op Amp	8-SOIC	1.09	.95	.73
UC2843AN	497-3076-5-ND	Current Mode PWM Controller	8-Dip	1.13	.98	.75
UC2843BN	497-3678-ND	Current Mode PWM Controller	8-Mini Dip	1.20	1.04	.80
UC2844AN	497-3077-5-ND	Current Mode PWM Controller	8-Dip	1.13	.98	.75
UC2845BD1013TR	497-3679-1-ND	Current Mode PWM Controller	8-SOIC	1.20	1.04	.80
UC2845BN	497-3680-ND	Current Mode PWM Controller	8-Mini Dip	1.20	1.04	.80
UC3842BN	497-3079-5-ND	Current Mode PWM Controller	8-Mini Dip	1.16	1.01	.78
UC3843AD1	497-3080-5-ND	Current Mode PWM Controller	8-SOIC	1.09	.95	.73
UC3843AD1013TR	497-2338-1-ND	Current Mode PWM Controller	8-SOIC	1.09	.95	.73
UC3843AN	497-3081-5-ND	Current Mode PWM Controller	8-Dip	1.09	.95	.73
UC3843BD1013TR	497-3681-1-ND	Current Mode PWM Controller	8-SOIC	1.16	1.01	.78
UC3844AD1	497-3082-5-ND	Current Mode PWM Controller	8-SOIC	1.09	.95	.73
UC3844AN	497-2339-5-ND	Current Mode PWM Controller	8-Mini Dip	1.09	.95	.73
UC3844BD1013TR	497-3682-1-ND	Current Mode PWM Controller	8-SOIC	1.16	1.01	.78
UC3844BD1013TR	497-3682-2-ND	Current Mode PWM Controller	8-SOIC	1030.00/2,500		
ULN2001A	497-2340-5-ND	Seven Darlington Array	16-Dip	.95	.76	.57
ULN2001D1013TR	497-2341-1-ND	Seven Darlington Array	16-SOIC	.95	.76	.57
ULN2001D1013TR	497-2341-2-ND	Seven Darlington Array	16-SOIC	747.50/2,500		
ULN2002A	497-2342-5-ND	Seven Darlington Array	16-Dip	.95	.76	.57
ULN2002D1013TR	497-2343-1-ND	Seven Darlington Array	16-SOIC	.95	.76	.57
ULN2002D1013TR	497-2343-2-ND	Seven Darlington Array	16-SOIC	747.50/2,500		
ULN2003D1013TR	497-2345-1-ND	Seven Darlington Array	16-SOIC	.95	.76	.57
ULN2003D1013TR	497-2345-2-ND	Seven Darlington Array	16-SOIC	747.50/2,500		
ULN2004D1013TR	497-2347-1-ND	Seven Darlington Array	16-SOIC	.95	.76	.57
ULN2004D1013TR	497-2347-2-ND	Seven Darlington Array	16-SOIC	747.50/2,500		
ULN2064B	497-2348-5-ND	50V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2065B	497-2349-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2067B	497-2350-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2068B	497-2351-5-ND	50V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2069B	497-2352-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2074B	497-2353-5-ND	50V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2075B	497-3084-5-ND	80V, 1.5A Quad Darlington Switch	16-Power Dip	2.85	2.38	2.00
ULN2801A	497-2354-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
ULN2802A	497-2355-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
ULN2803A	497-2356-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
ULN2804A	497-2357-5-ND	Eight Darlington Array	18-Dip	1.05	.91	.70
ULQ2001D1013TR	497-4989-1-ND	Seven Darlington Array ***NEW!***	16-SOIC	.95	.76	.57
ULQ2001D1013TR	497-4989-2-ND	Seven Darlington Array ***NEW!***	16-SOIC	747.50/2,500		
ULQ2003D1	497-3085-5-ND	Seven Darlington Array	16-SOIC	1.01	.88	.68
ULQ2003D1013TR	497-2359-1-ND	Seven Darlington Array	16-SOIC	1.01	.88	.68
ULQ2003D1013TR	497-2359-2-ND	Seven Darlington Array	16-SOIC	897.50/2,500		
ULQ2004A	497-2360-5-ND	Seven Darlington Array	16-Dip	1.01	.88	.68
ULQ2004D1013TR	497-2361-1-ND	Seven Darlington Array	16-SOIC	1.01	.88	.68
ULQ2004D1013TR	497-2361-2-ND	Seven Darlington Array	16-SOIC	897.50/2,500		
USBDF01W5	497-3086-1-ND	EMI Filter and Line Termination	SOT-323-5L	.79	.64	.48
USBDF01W5	497-3086-2-ND	EMI Filter and Line Termination	SOT-323-5L	753.00/3,000		
USBLC6-2P6	497-5026-1-ND	Very Low Capacitance, ESD Protection ***NEW!***	SOT-666	.94	.82	.63

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

STMicroelectronics INTEGRATED CIRCUITS *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
USBLC6-2P6	497-5026-2-ND	Very Low Capacitance, ESD Protection ***NEW!***	SOT-666	999.00/3,000		
USBUF01W6	497-3087-1-ND	EMI Filter and Line Termination	SOT-323-6L	1.35	1.17	.90
USBUF01W6	497-3087-2-ND	EMI Filter and Line Termination	SOT-323-6L	1436.40/3,000		
VNH3SP30TR-E	497-3565-1-ND	Fully Integrated H-Bridge Motor Driver	30-SOIC	8.40	7.67	6.06
VNH3SP30TR-E	497-3565-2-ND	Fully Integrated H-Bridge Motor Driver	30-SOIC	4654.00/1,000		
RoHS Compliant Parts						
E-L293DD	497-4552-5-ND	Push-Pull 4-Ch.Driver with Diodes	20-SOIC	5.37	4.68	3.49
E-L293DD013TR	497-4553-1-ND	Push-Pull 4-Ch. Driver with Diodes	20-SOIC	5.37	4.68	3.49
E-L293DD013TR	497-4553-2-ND	Push-Pull 4-Ch. Driver with Diodes	20-SOIC	2647.00/1,000		
E-L298N	497-4554-5-ND	Dual Full-Bridge Driver	15-Multiwatt	4.19	3.65	2.72
E-L4960	497-4555-5-ND	2.5A Power Switching Regulator	Heptawatt	4.37	3.81	2.84
E-L4971D	497-4556-5-ND	1.5A Step-Down Switching Regulator	16-SOIC	4.70	4.09	3.05
E-L4971D013TR	497-4557-1-ND	1.5A Step-Down Switching Regulator	16-SOIC	4.86	4.23	3.15
E-L4971D013TR	497-4557-2-ND	1.5A Step-Down Switching Regulator	16-SOIC	2394.00/1,000		
E-L4973V3.3	497-4558-5-ND	3.5A Step-Down Switching Reg.	18-Power Dip	6.44	5.88	4.65
E-L4978D013TR	497-4559-1-ND	2A Step-Down Switching Regulator	16-SOIC	4.89	4.26	3.17
E-L4978D013TR	497-4559-2-ND	2A Step-Down Switching Regulator	16-SOIC	2407.30/1,000		
E-L4981A	497-4560-ND	Power Factor Corrector	20-Dip	5.40	4.70	3.50
E-L4981AD	497-4561-5-ND	Power Factor Corrector	20-SOIC	5.40	4.70	3.50
E-L4981AD013TR	497-4562-1-ND	Power Factor Corrector	20-SOIC	5.40	4.70	3.50
E-L4981AD013TR	497-4562-2-ND	Power Factor Corrector	20-SOIC	2660.00/1,000		
E-L5970D	497-4563-5-ND	Up to 1A Step-Down Switching Reg.	8-SOIC	3.02	2.64	1.96
E-L5972D013TR	497-4564-1-ND	2A Step-Down Switching Regulator	8-SOIC	3.51	3.06	2.28
E-L5972D013TR	497-4564-2-ND	2A Step-Down Switching Regulator	8-SOIC	4160.00/2,500		
E-L5973AD	497-4565-5-ND	2.5A Step-Down Switching Regulator	8-HSOP	3.51	3.06	2.28
E-L5973D013TR	497-4566-1-ND	2.5A Step-Down Switching Regulator	8-HSOP	3.38	2.94	2.19
E-L5973D013TR	497-4566-2-ND	2.5A Step-Down Switching Regulator	8-HSOP	4000.00/2,500		
E-L6201PS	497-4567-5-ND	DMOS Full Bridge Driver	20-Power SOIC	8.79	8.03	6.35
E-L6201PSTR	497-4568-1-ND	DMOS Full Bridge Driver	20-Power SOIC	8.79	8.03	6.35
E-L6201PSTR	497-4568-2-ND	DMOS Full Bridge Driver	20-Power SOIC	2979.60/600		
E-L6202	497-4569-5-ND	DMOS Full Bridge Driver	18-Power Dip	8.63	7.88	6.23
E-L6203	497-4570-5-ND	DMOS Full Bridge Driver	Multiwatt	11.27	10.29	8.14
E-L6207D	497-4571-5-ND	DMOS Full Bridge Driver	24-SOIC	10.60	9.81	7.42
E-L6207D013TR	497-4572-1-ND	DMOS Full Bridge Driver	24-SOIC	10.60	9.81	7.42
E-L6207D013TR	497-4572-2-ND	DMOS Full Bridge Driver	24-SOIC	6625.00/1,000		
E-L6207N	497-4573-ND	DMOS Full Bridge Driver	24-Power Dip	10.90	10.09	7.63
E-L6207PD	497-4574-5-ND	DMOS Full Bridge Driver	36-SOIC	11.40	10.55	7.98
E-L6207PD013TR	497-4575-1-ND	DMOS Full Bridge Driver	36-Power SOIC	11.40	10.55	7.98
E-L6207PD013TR	497-4575-2-ND	DMOS Full Bridge Driver	36-Power SOIC	4343.40/600		
E-L6208D	497-4576-5-ND	DMOS Driver for Bipolar Stepper Motor	24-SOIC	13.30	12.31	9.31
E-L6385D013TR	497-4577-1-ND	High Voltage High/Low Side Driver	8-SOIC	2.91	2.43	2.04
E-L6385D013TR	497-4577-2-ND	High Voltage High/Low Side Driver	8-SOIC	3152.50/2,500		
E-L6386D	497-4578-5-ND	High Voltage High/Low Side Driver	14-SOIC	2.55	2.13	1.79
E-L6386D013TR	497-4579-1-ND	High Voltage High/Low Side Driver	14-SOIC	2.58	2.15	1.81
E-L6386D013TR	497-4579-2-ND	High Voltage High/Low Side Driver	14-SOIC	2752.00/2,500		
E-L6561	497-4580-ND	Power Factor Corrector	8-Mini Dip	1.56	1.30	1.10
E-L6561D	497-4581-5-ND	Power Factor Corrector	8-SOIC	1.56	1.30	1.10
E-L6561D013TR	497-4582-1-ND	Power Factor Corrector	8-SOIC	1.56	1.30	1.10
E-L6561D013TR	497-4582-2-ND	Power Factor Corrector	8-SOIC	1690.00/2,500		
E-L6562DTR	497-4583-1-ND	Transition-Mode PFC Controller	8-SOIC	1.69	1.47	1.13
E-L6562DTR	497-4583-2-ND	Transition-Mode PFC Controller	8-SOIC	1497.50/2,500		
E-L6565DTR	497-4584-1-ND	Quasi-Resonant SMPS Controller	8-SOIC	1.65	1.38	1.16
E-L6565DTR	497-4584-2-ND	Quasi-Resonant SMPS Controller	8-SOIC	1787.50/2,500		
E-L6569	497-4585-5-ND	HV Half Bridge Driver with Oscillator	8-Dip	2.85	2.38	2.00
E-L6571BD013TR	497-4586-1-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2.70	2.25	1.89
E-L6571BD013TR	497-4586-2-ND	HV Half Bridge Driver with Oscillator	8-SOIC	2925.00/2,500		
E-L6574D013TR	497-4587-1-ND	CFL/TL Ballast Driver Preheat and Dimming	16-SOIC	2.81	2.45	1.82
E-L6574D013TR	497-4587-2-ND	CFL/TL Ballast Driver Preheat and Dimming	16-SOIC	3328.00/2,500		
E-L6598D013TR	497-4588-1-ND	High Voltage Resonant Controller	16-SOIC	2.97	2.48	2.08
E-L6598D013TR	497-4588-2-ND	High Voltage Resonant Controller	16-SOIC	3217.50/2,500		
E-L6902D	497-4589-ND	Switching Regulator with Adj. Current Limit	8-SOIC	3.78	3.29	2.45
E-L6910	497-4590-5-ND	Adj. Step-Down Controller with Sync. Rectification	16-SOIC	2.97	2.59	1.93
E-L6910TR	497-4591-1-ND	Adj. Step-Down Controller with Sync. Rectification	16-SOIC	2.97	2.59	1.93
E-L6910TR	497-4591-2-ND	Adj. Step-Down Controller with Sync. Rectification	16-SOIC	3520.00/2,500		
E-L6919ETR	497-4592-1-ND	5-Bit Prog. Dual-Phase Controller	28-SOIC	3.68	3.36	2.66
E-L6919ETR	497-4592-2-ND	5-Bit Prog. Dual-Phase Controller	28-SOIC	2128.00/1,000		
E-L6920DTR	497-4593-1-ND	1V High Eff. Sync. Step-Up Converter	8-TSSOP	2.16	1.80	1.52
E-L6920DTR	497-4593-2-ND	1V High Eff. Sync. Step-Up Converter	8-TSSOP	3744.00/4,000		
E-L6925D013TR	497-4594-1-ND	High Eff. Mono Sync. Step-Down Regulator	8-MSOP	2.55	2.13	1.79
E-L6925D013TR	497-4594-2-ND	High Eff. Mono Sync. Step-Down Regulator	8-MSOP	4420.00/4,000		
E-L6926013TR	497-4595-1-ND	Battery Management	—	2.10	1.75	1.47
E-L6926013TR	497-4595-2-ND	Battery Management	—	3640.00/4,000		
E-L6932D1.2	497-5057-ND	High Perf. 2A ULDO Linear Reg. ***NEW!***	8-SOIC	2.85	2.38	2.00
E-L6932D1.2TR	497-4596-1-ND	High Perf. 2A ULDO Linear Regulator	8-SOIC	2.85	2.38	2.00
E-L6932D1.2TR	497-4596-2-ND	High Perf. 2A ULDO Linear Regulator	8-SOIC	3087.50/2,500		
E-SG2525AN	497-4644-5-ND	Regulator Pulse Width Modulator ***NEW!***	16-Dip	1.77	1.48	1.24
E-SG2525AP013TR	497-4683-1-ND	Regulator Pulse Width Modulator	16-SOIC	1.85	1.48	1.11
E-SG2525AP013TR	497-4683-2-ND	Regulator Pulse Width Modulator	16-SOIC	1230.00/2,500		
E-SG3525AN	497-4645-5-ND	Regulator Pulse Width Modulator ***NEW!***	16-Dip	1.77	1.48	1.24
E-SG3525AP	497-4597-5-ND	Regulator Pulse Width Modulator	16-SOIC	1.77	1.48	1.24
E-TDE1707BFPT	497-4598-1-ND	Intelligent Power Switch	8-SOIC	5.48	4.78	3.56
E-TDE1707BFPT	497-4598-2-ND	Intelligent Power Switch	8-SOIC	6496.00/2,500		
E-UC2843BN	497-4599-5-ND	Current Mode PWM Controller	8-Dip	1.20	1.04	.80
E-UC2845BD1013TR	497-4600-1-ND	Current Mode PWM Controller	8-SOIC	1.20	1.04	.80
E-UC2845BD1013TR	497-4600-2-ND	Current Mode PWM Controller	8-SOIC	1064.00/2,500		
E-UC2845BN	497-4601-5-ND	Current Mode PWM Controller	8-Dip	1.20	1.04	.80
E-UC3842BN	497-4602-5-ND	Current Mode PWM Controller	8-Dip	1.16	1.01	.78
E-UC3843BD1013TR	497-4603-1-ND	Current Mode PWM Controller	8-SOIC	1.16	1.01	.78
E-UC3843BD1013TR	497-4603-2-ND	Current Mode PWM Controller	8-SOIC	1030.75/2,500		
E-UC3844BD1013TR	497-4604-1-ND	Current Mode PWM Controller	8-SOIC	1.16	1.01	.78
E-UC3844BD1013TR	497-4604-2-ND	Current Mode PWM Controller	8-SOIC	1030.75/2,500		
E-UC3845BD1013TR	497-4605-1-ND	Current Mode PWM Controller	8-SOIC	1.16	1.01	.78
E-UC3845BD1013TR	497-4605-2-ND	Current Mode PWM Controller	8-SOIC	1030.75/2,500		
E-ULN2001A	497-4606-5-ND	Seven Darlington Array	16-Dip	.95	.76	.57
E-ULN2002A	497-4549-ND	Seven Darlington Array	16-Dip	.95	.76	.57
E-ULN2003A	497-4607-5-ND	Seven Darlington Array	16-Dip	.95	.76	.57
E-ULN2004A	497-4608-5-ND	Seven Darlington Array	16-Dip	.95	.76	.57
E-ULQ2003A	497-4609-5-ND	Seven Darlington Array	16-Dip	1.01	.88	.68
E-ULQ2003D1	497-4610-5-ND	Seven Darlington Array	16-SOIC	1.01	.88	.68

STMicroelectronics RESET SUPERVISORS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
STM690AM6F	497-3824-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM690AM6F	497-3824-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM690RM6F	497-3825-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM690RM6F	497-3825-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM690SDS6F	497-4980-1-ND	3V Supervisor with Battery Switchover ***NEW!***	8-TSSOP	3.24	2.82	2.10
STM690SDS6F	497-4980-2-ND	3V Supervisor with Battery Switchover ***NEW!***	8-TSSOP	6144.00/4,000		
STM690SM6F	497-3826-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM690SM6F	497-3826-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM690TM6F	497-3827-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM690TM6F	497-3827-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM692AM6F	497-3828-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.07	1.73	1.45
STM692AM6F	497-3828-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2242.50/2,500		
STM703M6F	497-3829-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
STM703M6F	497-3829-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2210.00/2,500		
STM704M6F	497-3830-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
STM704M6F	497-3830-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2210.00/2,500		
STM704RM6F	497-3831-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
STM704RM6F	497-3831-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2210.00/2,500		
STM704SM6F	497-3832-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
STM704SM6F	497-3832-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2210.00/2,500		
STM704TM6F	497-3833-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.04	1.70	1.43
STM704TM6F	497-3833-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2210.00/2,500		
STM705M6F	497-3834-1-ND	5V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM705M6F	497-3834-2-ND	5V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM706M6F	497-3835-1-ND	5V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM706M6F	497-3835-2-ND	5V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM706PM6F	497-3836-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM706PM6F	497-3836-2-ND	3V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM706RM6F	497-3837-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM706RM6F	497-3837-2-ND	3V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM706SDS6F	497-4981-1-ND	3V Supervisor w/Watchdog ***NEW!***	8-TSSOP	2.25	1.88	1.58
STM706SDS6F	497-4981-2-ND	3V Supervisor w/Watchdog ***NEW!***	8-TSSOP	3900.00/4,000		
STM706SM6F	497-3838-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM706SM6F	497-3838-2-ND	3V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM706TM6F	497-3839-1-ND	3V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM706TM6F	497-3839-2-ND	3V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM707M6F	497-3840-1-ND	5V Supervisor	8-SOIC	1.74	1.52	1.17
STM707M6F	497-3840-2-ND	5V Supervisor	8-SOIC	1545.00/2,500		
STM708M6F	497-3841-1-ND	5V Supervisor	8-SOIC	1.74	1.52	1.17
STM708M6F	497-3841-2-ND	5V Supervisor	8-SOIC	1545.00/2,500		
STM708RM6F	497-3842-1-ND	3V Supervisor	8-SOIC	1.74	1.52	1.17
STM708RM6F	497-3842-2-ND	3V Supervisor	8-SOIC	1545.00/2,500		
STM708SDS6F	497-4982-1-ND	3V Supervisor ***NEW!***	8-TSSOP	2.25	1.88	1.58
STM708SDS6F	497-4982-2-ND	3V Supervisor ***NEW!***	8-TSSOP	3900.00/4,000		
STM708SM6F	497-3843-1-ND	3V Supervisor	8-SOIC	1.74	1.52	1.17
STM708SM6F	497-3843-2-ND	3V Supervisor	8-SOIC	1545.00/2,500		
STM708TM6F	497-3844-1-ND	3V Supervisor	8-SOIC	1.74	1.52	1.17
STM708TM6F	497-3844-2-ND	3V Supervisor	8-SOIC	1545.00/2,500		
STM795RM6F	497-3845-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.67	2.23	1.87
STM795RM6F	497-3845-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2892.50/2,500		
STM795SM6F	497-3846-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.67	2.23	1.87
STM795SM6F	497-3846-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2892.50/2,500		
STM795TM6F	497-3847-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.67	2.23	1.87
STM795TM6F	497-3847-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2892.50/2,500		
STM802LM6F	497-3848-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM802LM6F	497-3848-2-ND	5V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM802MM6F	497-3849-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM802MM6F	497-3849-2-ND	5V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM802RM6F	497-3850-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM802RM6F	497-3850-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM802SM6F	497-3851-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM802SM6F	497-3851-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM802TM6F	497-3852-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM802TM6F	497-3852-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM804RM6F	497-3853-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM804RM6F	497-3853-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3412.50/2,500		
STM804SM6F	497-3854-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM804SM6F	497-3854-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM804TM6F	497-3855-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.84	2.47	1.84
STM804TM6F	497-3855-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3360.00/2,500		
STM805LM6F	497-3856-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
STM805LM6F	497-3856-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2632.50/2,500		
STM805RM6F	497-3857-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
STM805RM6F	497-3857-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2632.50/2,500		
STM805SM6F	497-3858-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.19	1.83	1.54
STM805SM6F	497-3858-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2372.50/2,500		
STM805TM6F	497-3859-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
STM805TM6F	497-3859-2-ND	3V Supervisor with Battery Switchover	8-SOIC	2632.50/2,500		
STM806RM6F	497-3860-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.54	2.21	1.65
STM806RM6F	497-3860-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3055.00/2,500		
STM806SM6F	497-3861-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.54	2.21	1.65
STM806SM6F	497-3861-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3055.00/2,500		
STM806TM6F	497-3862-1-ND	3V Supervisor with Battery Switchover	8-SOIC	2.82	2.35	1.98
STM806TM6F	497-3862-2-ND	3V Supervisor with Battery Switchover	8-SOIC	3007.50/2,500		
STM813LM6F	497-3863-1-ND	5V Supervisor with Watchdog	8-SOIC	1.74	1.52	1.17
STM813LM6F	497-3863-2-ND	5V Supervisor with Watchdog	8-SOIC	1545.00/2,500		
STM817LM6F	497-3864-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71
STM817LM6F	497-3864-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2632.50/2,500		
STM817MM6F	497-3865-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.43	2.03	1.71

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STMicroelectronics RESET SUPERVISORS *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
STM817MM6F	497-3865-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2632.50/2,500		
STM818LM6F	497-3866-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.52	2.10	1.77
STM818LM6F	497-3866-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2730.00/2,500		
STM818MM6F	497-3867-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.52	2.10	1.77
STM818MM6F	497-3867-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2730.00/2,500		
STM819LM6F	497-3868-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM819LM6F	497-3868-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM819MM6F	497-3869-1-ND	5V Supervisor with Battery Switchover	8-SOIC	2.10	1.75	1.47
STM819MM6F	497-3869-2-ND	5V Supervisor with Battery Switchover	8-SOIC	2275.00/2,500		
STM6717SFWY6F	497-5010-1-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-5	1.69	1.47	1.13
STM6717SFWY6F	497-5010-2-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-5	1797.00/3,000		
STM6717TWWY6F	497-5011-1-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-5	1.69	1.47	1.13
STM6717TWWY6F	497-5011-2-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-5	1797.00/3,000		
STM6718SFWY6F	497-5012-1-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-5	1.69	1.47	1.13
STM6718SFWY6F	497-5012-2-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-5	1797.00/3,000		
STM6718TWWY6F	497-5013-1-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-5	1.69	1.47	1.13
STM6718TWWY6F	497-5013-2-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-5	1797.00/3,000		
STM6719SFWB6F	497-5014-1-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-6	1.69	1.47	1.13
STM6719SFWB6F	497-5014-2-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-6	1797.00/3,000		
STM6719SHWB6F	497-5015-1-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-6	1.69	1.47	1.13
STM6719SHWB6F	497-5015-2-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-6	1797.00/3,000		
STM6719TWWB6F	497-5016-1-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-6	1.69	1.47	1.13
STM6719TWWB6F	497-5016-2-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-6	1797.00/3,000		
STM6720SFWB6F	497-5017-1-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-6	1.69	1.47	1.13
STM6720SFWB6F	497-5017-2-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-6	1797.00/3,000		
STM6720TWWB6F	497-5018-1-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-6	1.69	1.47	1.13
STM6720TWWB6F	497-5018-2-ND	Dual/Triple Ultra Low Voltage Supervisor ***NEW!***	SOT-23-6	1797.00/3,000		

STMicroelectronics LOW DROPOUT REGULATORS

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
KF25BDT-TR	497-4202-1-ND	2.5V, LDO Voltage Regulator	D-PAK	1.16	1.01	.78
KF25BDT-TR	497-4202-2-ND	2.5V, LDO Voltage Regulator	D-PAK	1030.00/2,500		
KF33BDT-TR	497-1148-1-ND	3.3V, LDO Voltage Regulator	D-PAK	1.73	1.50	1.15
KF33BDT-TR	497-1148-2-ND	3.3V, LDO Voltage Regulator	D-PAK	1530.00/2,500		
KF50BDT-TR	497-1149-1-ND	5V, LDO Voltage Regulator	D-PAK	1.50	1.30	1.00
KF50BDT-TR	497-1149-2-ND	5V, LDO Voltage Regulator	D-PAK	1330.00/2,500		
KF80BD-TR	497-1150-1-ND	8V, LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
KF80BD-TR	497-1150-2-ND	8V, LDO Voltage Regulator	8-SOIC	1330.00/2,500		
KF80BDT-TR	497-1151-1-ND	8V, LDO Voltage Regulator	D-PAK	1.50	1.30	1.00
KF80BDT-TR	497-1151-2-ND	8V, LDO Voltage Regulator	D-PAK	1330.00/2,500		
L4892CV	497-3910-ND	9.2V, LDO Voltage Regulator	TO-220	1.92	1.60	1.35
L4925	497-3911-ND	5V, LDO Voltage Regulator	Pentawatt	2.82	2.35	1.98
L4925PD	497-3912-5-ND	5V, LDO Voltage Regulator	20-Power SOIC	3.35	2.92	2.17
L4925PD013TR	497-1152-1-ND	5V, LDO Voltage Regulator	20-Power SOIC	3.35	2.92	2.17
L4925PD013TR	497-1152-2-ND	5V, LDO Voltage Regulator	20-Power SOIC	1041.60/600		
L4931ABD15-TR	497-4203-1-ND	1.5V, LDO Voltage Regulator	8-SOIC	1.28	1.11	.85
L4931ABD15-TR	497-4203-2-ND	1.5V, LDO Voltage Regulator	8-SOIC	1130.00/2,500		
L4931ABD25-TR	497-1154-1-ND	2.5V, LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
L4931ABD25-TR	497-1154-2-ND	2.5V, LDO Voltage Regulator	8-SOIC	1330.00/2,500		
L4931ABD33-TR	497-1155-1-ND	3.3V, LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
L4931ABD33-TR	497-1155-2-ND	3.3V, LDO Voltage Regulator	8-SOIC	1330.00/2,500		
L4931ABD50-TR	497-1156-1-ND	5V, LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
L4931ABD50-TR	497-1156-2-ND	5V, LDO Voltage Regulator	8-SOIC	1330.00/2,500		
L4931ABD120TR	497-1153-1-ND	12V, LDO Voltage Regulator	8-SOIC	1.50	1.30	1.00
L4931ABD120TR	497-1153-2-ND	12V, LDO Voltage Regulator	8-SOIC	1330.00/2,500		
L4931ABDT25TR	497-1158-1-ND	2.5V, LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT25TR	497-1158-2-ND	2.5V, LDO Voltage Regulator	D-PAK	1430.00/2,500		
L4931ABDT33-TR	497-1159-1-ND	3.3V, LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT33-TR	497-1159-2-ND	3.3V, LDO Voltage Regulator	D-PAK	1430.00/2,500		
L4931ABDT50-TR	497-1160-1-ND	5V, LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT50-TR	497-1160-2-ND	5V, LDO Voltage Regulator	D-PAK	1430.00/2,500		
L4931ABDT80-TR	497-1161-1-ND	8V, LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT80-TR	497-1161-2-ND	8V, LDO Voltage Regulator	D-PAK	1430.00/2,500		
L4931ABDT120R	497-1157-1-ND	12V, LDO Voltage Regulator	D-PAK	1.61	1.40	1.08
L4931ABDT120R	497-1157-2-ND	12V, LDO Voltage Regulator	D-PAK	1430.00/2,500		
L4931ABPT25TR	497-1163-1-ND	2.5V, LDO Voltage Regulator	P-PAK	1.84	1.60	1.23
L4931ABPT25TR	497-1163-2-ND	2.5V, LDO Voltage Regulator	P-PAK	1630.00/2,500		
L4931ABPT33-TR	497-1164-1-ND	3.3V, LDO Voltage Regulator	P-PAK	1.84	1.60	1.23
L4931ABPT33-TR	497-1164-2-ND	3.3V, LDO Voltage Regulator	P-PAK	1630.00/2,500		
L4931ABPT50TR	497-1165-1-ND	5V, LDO Voltage Regulator	P-PAK	1.84	1.60	1.23
L4931ABPT50TR	497-1165-2-ND	5V, LDO Voltage Regulator	P-PAK	1630.00/2,500		
L4931ABPT120R	497-1162-1-ND	12V, LDO Voltage Regulator	P-PAK	1.61	1.40	1.08
L4931ABPT120R	497-1162-2-ND	12V, LDO Voltage Regulator	P-PAK	1430.00/2,500		
L4931ABV33	497-1399-5-ND	3.3V, LDO Voltage Regulator	TO-220	1.31	1.14	.88
L4931ABV50	497-1400-5-ND	5V, LDO Voltage Regulator	TO-220	1.31	1.14	.88
L4931ABZ25	497-1001-ND	2.5V, LDO Voltage Regulator	TO-92	1.46	1.27	.98
L4931ABZ120	497-1000-ND	12V, LDO Voltage Regulator	TO-92	1.46	1.27	.98
L4931CD80-TR	497-4770-1-ND	8V, LDO Voltage Regulator ***NEW!***	8-SOIC	1.16	1.01	.78
L4931CD80-TR	497-4770-2-ND	8V, LDO Voltage Regulator ***NEW!***	8-SOIC	1030.00/2,500		
L4931CDT50-TR	497-4204-1-ND	5V, LDO Voltage Regulator	D-PAK	1.50	1.30	1.00
L4931CDT50-TR	497-4204-2-ND	5V, LDO Voltage Regulator	D-PAK	1330.00/2,500		
L4931CV15	497-4811-5-ND	1.5V, LDO Voltage Regulator ***NEW!***	TO-220	1.05	.91	.70
L4931CV33	497-1401-5-ND	3.3V, LDO Voltage Regulator	TO-220	1.20	1.04	.80
L4931CV50	497-1402-5-ND	5V, LDO Voltage Regulator	TO-220	1.20	1.04	.80
L4931CZ33	497-1003-ND	3.3V, LDO Voltage Regulator	TO-92	1.24	1.08	.83
L4931CZ50	497-1004-ND	5V, LDO Voltage Regulator	TO-92	1.24	1.08	.83
L4931CZ120	497-1002-ND	12V, LDO Voltage Regulator	TO-92	1.39	1.21	.93
L4940D2M5-TR	497-4205-1-ND	5V, LDO 1.5A Regulator	D2-PAK	1.80	1.50	1.26
L4940D2M5-TR	497-4205-2-ND	5V, LDO 1.5A Regulator	D2-PAK	810.00/1,000		
L4940D2T5-TR	497-1166-1-ND	5V, LDO 1.5A Regulator	D2-PAK	2.07	1.73	1.45
L4940D2T5-TR	497-1166-2-ND	5V, LDO 1.5A Regulator	D2-PAK	932.00/1,000		
L4940D2T85-TR	497-1167-1-ND	8.5V, LDO 1.5A Regulator	D2-PAK	2.10	1.75	1.47
L4940D2T85-TR	497-1167-2-ND	8.5V, LDO 1.5A Regulator	D2-PAK	945.00/1,000		
L4940V5	497-1404-5-ND	5V, LDO 1.5A Regulator	TO-220	2.16	1.80	1.52
L4940V12	497-1403-5-ND	12V, LDO 1.5A Regulator	TO-220	2.16	1.80	1.52
L4941BDT-TR	497-1168-1-ND	1A LDO Regulator	D-PAK	2.10	1.75	1.47
L4941BDT-TR	497-1168-2-ND	1A LDO Regulator	D-PAK	2275.00/2,500		
L4945	497-3629-ND	5V Very Low Drop Voltage Regulator	TO-220	5.98	5.46	4.32
L4947	497-3918-5-ND	5V, 0.5A LDO Regulator w/Reset	Pentawatt	3.46	3.01	2.24
L4947H	497-3630-ND	5V, 0.5A LDO Regulator w/Reset	Pentawatt	3.46	3.01	2.24
L4947PD	497-1405-5-ND	5V, 0.5A LDO Reg. w/Reset	20-Power SOIC	3.24	2.82	2.10
L4949E	497-3631-ND	Multifunction Very Low Drop Voltage Regulator	8-MiniDip	1.89	1.58	1.33
L4949ED013TR	497-3632-1-ND	Multifunction Very Low Drop Voltage Regulator	8-SOIC	1.89	1.58	1.33
L4949ED013TR	497-3632-2-ND	Multifunction Very Low Drop Voltage Regulator	8-SOIC	2047.50/2,500		
L4949EDMITTR	497-3919-1-ND	Multifunction Very Low Drop Voltage Regulator	8-SOIC	1.89	1.58	1.33
L4949EDMITTR	497-3919-2-ND	Multifunction Very Low Drop Voltage Regulator	8-SOIC	2047.50/2,500		
L4949EP013TR	497-3633-1-ND	Multifunction Very Low Drop Voltage Regulator	20-SOIC	1.89	1.58	1.33
L4949EP013TR	497-3633-2-ND	Multifunction Very Low Drop Voltage Regulator	20-SOIC	851.00/1,000		
LD1084D2M-R	497-3409-1-ND	Adj., 5A LDO Positive Voltage Reg.	D2-PAK/A	2.73	2.28	1.92
LD1084D2M-R	497-3409-2-ND	Adj., 5A LDO Positive Voltage Reg.	D2-PAK/A	1229.00/1,000		
LD1084D2M33	497-4235-5-ND	3.3V, 5A LDO Positive Voltage Reg.	D2-PAK/A	1.73	1.50	1.15
LD1084D2M33R	497-3410-1-ND	3.3V, 5A LDO Positive Voltage Reg.	D2-PAK/A	2.64	2.20	1.85
LD1084D2M50R	497-4236-1-ND	5V, 5A LDO Positive Voltage Reg.	D2-PAK/A	2.64	2.20	1.85
LD1084D2M50R	497-4236-2-ND	5V, 5A LDO Positive Voltage Reg.	D2-PAK/A	1188.001,000		
LD1084D2T-R	497-3411-1-ND	Adj., 5A LDO Positive Voltage Reg.	D2-PAK	2.64	2.20	1.85
LD1084D2T-R	497-3411-2-ND	Adj., 5A LDO Positive Voltage Reg.	D2-PAK	1188.00/1,000		
LD1084V	497-3413-5-ND	Adj., 5A LDO Positive Voltage Reg.	TO-220	2.64	2.20	1.85
LD1084V18	497-3414-5-ND	1.8V, 5A LDO Positive Voltage Reg.	TO-220	2.64	2.20	1.85
LD1084V25	497-3415-5-ND	2.5V, 5A LDO Positive Voltage Reg.	TO-220	2.64	2.20	1.85
LD1084V33	497-3416-5-ND	3.3V, 5A LDO Positive Voltage Reg.	TO-220	2.64	2.20	1.85
LD1084V50	497-3417-5-ND	5V, 5A LDO Positive Voltage Reg.	TO-220	2.64	2.20	1.85
LD1085CDT-R	497-3418-1-ND	Adj., 3A LDO Positive Voltage Reg.	D-PAK	1.95	1.63	1.37
LD1085CDT-R	497-3418-2-ND	Adj., 3A LDO Positive Voltage Reg.	D-PAK	2112.50/2,500		
LD1085D2M-R	497-3419-1-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1085D2M-R	497-3419-2-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK/A	878.00/1,000		
LD1085D2M12R	497-3420-1-ND	12V, 3A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1085D2M12R	497-3420-2-ND	12V, 3A LDO Positive Voltage Reg.	D2-PAK/A	878.00/1,000		
LD1085D2M18R	497-3421-1-ND	1.8V, 3A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1085D2M18R	497-3421-3-ND	1.8V, 3A LDO Positive Voltage Reg.	D2-PAK/A	878.00/1,000		
LD1085D2M25R	497-3422-1-ND	2.5V, 3A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1085D2M25R	497-3422-2-ND	2.5V, 3A LDO Positive Voltage Reg.	D2-PAK/A	878.00/1,000		
LD1085D2M33R	497-3423-1-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1085D2M33R	497-3423-2-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK/A	878.00/1,000		
LD1085D2T-R	497-3424-1-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK	1.95	1.63	1.37
LD1085D2T-R	497-3424-2-ND	Adj., 3A LDO Positive Voltage Reg.	D2-PAK	878.00/1,000		
LD1085D2T15R	497-3426-1-ND	1.5V, 3A LDO Positive Voltage Reg.	D2-PAK	1.95	1.63	1.37
LD1085D2T15R	497-3426-2-ND	1.5V, 3A LDO Positive Voltage Reg.	D2-PAK	878.00/1,000		
LD1085D2T18R	497-3427-1-ND	1.8V, 3A LDO Positive Voltage Reg.	D2-PAK	1.95	1.63	1.37
LD1085D2T18R	497-3427-2-ND	1.8V, 3A LDO Positive Voltage Reg.	D2-PAK	878.00/1,000		
LD1085D2T25R	497-1221-1-ND	2.5V, 3A LDO Positive Voltage Reg.	D2-PAK	1.95	1.63	1.37
LD1085D2T25R	497-1221-2-ND	2.5V, 3A LDO Positive Voltage Reg.	D2-PAK	878.00/1,000		
LD1085D2T33R	497-1222-1-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK	1.50	1.25	1.05
LD1085D2T33R	497-1222-2-ND	3.3V, 3A LDO Positive Voltage Reg.	D2-PAK	675.00/1,000		
LD1085DT-R	497-3428-1-ND	Adj., 3A LDO Positive Voltage Reg.	D-PAK	1.95	1.63	1.37
LD1085DT-R	497-3428-2-ND	Adj., 3A LDO Positive Voltage Reg.	D-PAK	2112.50/2,500		
LD1085DT15R	497-3429-1-ND	1.5V, 3A LDO Positive Voltage Reg.	D-PAK	1.95	1.63	1.37
LD1085DT15R	497-3429-2-ND	1.5V, 3A LDO Positive Voltage Reg.	D-PAK	2112.50/2,500		
LD1085DT18R	497-3430-1-ND	1.8V, 3A LDO Positive Voltage Reg.	D-PAK	1.77	1.48	1.24
LD1085DT18R	497-3430-2-ND	1.8V, 3A LDO Positive Voltage Reg.	D-PAK	1917.50/2,500		
LD1085DT25R	497-3431-1-ND	2.5V, 3A LDO Positive Voltage Reg.	D-PAK	1.77	1.48	1.24
LD1085DT25R	497-3431-2-ND	2.5V, 3A LDO Positive Voltage Reg.	D-PAK	1917.50/2,500		
LD1085V	497-1482-5-ND	Adj., 3A LDO Positive Voltage Reg.	TO-220	1.50	1.25	1.05
LD1085V12	497-3432-5-ND	12V, 3A LDO Positive Voltage Reg.	TO-220	1.95	1.63	1.37
LD1085V18	497-3433-5-ND	1.8V, 3A LDO Positive Voltage Reg.	TO-220	1.95	1.63	1.37
LD1085V25	497-3434-5-ND	2.5V, 3A LDO Positive Voltage Reg.	TO-220	1.95	1.63	1.37
LD1085V33	497-3435-5-ND	3.3V, 3A LDO Positive Voltage Reg.	TO-220	1.95	1.63	1.37
LD1085V50	497-3436-5-ND	5V, 3A LDO Positive Voltage Reg.	TO-220	1.95	1.63	1.37
LD1086D2MTR	497-3439-1-ND	Adj., 1.5A LDO Positive Volt. Reg.	D2-PAK/A	1.80	1.56	1.20
LD1086D2MTR	497-3439-2-ND	Adj., 1.5A LDO Positive Volt. Reg.	D2-PAK/A	696.00/1,000		
LD1086D2M18TR	497-3437-1-ND	1.8V, 1.5A LDO Positive Volt. Reg.	D2-PAK/A	1.80	1.56	1.20
LD1086D2M18TR	497-3437-2-ND	1.8V, 1.5A LDO Positive Volt. Reg.	D2-PAK/A	696.00/1,000		
LD1086D2M33TR	497-1223-1-ND	3.3V, 1.5A LDO Positive Volt. Reg.	D2-PAK/A	1.80	1.56	1.20
LD1086D2M33TR	497-1223-2-ND	3.3V, 1.5A LDO Positive Volt. Reg.	D2-PAK/A	696.00/1,000		
LD1086D2T12TR	497-3440-1-ND	12V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.95	1.63	1.37
LD1086D2T12TR	497-3440-2-ND	12V, 1.5A LDO Positive Voltage Reg.	D2-PAK	878.00/1,000		
LD1086D2T15R	497-3441-1-ND	1.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.80	1.56	1.20
LD1086D2T15R	497-3441-2-ND	1.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	696.00/1,000		
LD1086D2T18TR	497-3442-1-ND	1.8V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.80	1.56	1.20
LD1086D2T18TR	497-3442-2-ND	1.8V, 1.5A LDO Positive Voltage Reg.	D2-PAK	696.00/1,000		
LD1086D2T25TR	497-3443-1-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.80	1.56	1.20
LD1086D2T25TR	497-3443-2-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	696.00/1,000		
LD1086D2T33TR	497-1224-1-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.80	1.56	1.20
LD1086D2T33TR	497-1224-2-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D2-PAK	696.00/1,000		
LD1086D2TTR	497-3566-1-ND	Adj., 1.5A LDO Positive Voltage Reg.	D2-PAK	1.80	1.56	1.20
LD1086D2TTR	497-3566-2-ND	Adj., 1.5A LDO Positive Voltage Reg.	D2-PAK	696.00/1,000		
LD1086D2T50TR	497-1225-1-ND	5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	1.47	1.28	.98
LD1086D2T50TR	497-1225-2-ND	5V, 1.5A LDO Positive Voltage Reg.	D2-PAK	567.00/1,000		
LD1086DT18TR	497-3444-1-ND	1.8V, 1.5A LDO Positive Voltage Reg.	D-PAK	1.80	1.56	1.20

(Continued)

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
LD1086DT18TR	497-3444-2-ND	1.8V, 1.5A LDO Positive Voltage Reg.	D-PAK	1595.00/2,500		
LD1086DT25TR	497-3445-1-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1.58	1.37	1.05
LD1086DT25TR	497-3445-2-ND	2.5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1397.50/2,500		
LD1086DT33TR	497-3446-1-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D-PAK	1.80	1.56	1.20
LD1086DT33TR	497-3446-2-ND	3.3V, 1.5A LDO Positive Voltage Reg.	D-PAK	1595.00/2,500		
LD1086DT50TR	497-4239-1-ND	5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1.80	1.56	1.20
LD1086DT50TR	497-4239-2-ND	5V, 1.5A LDO Positive Voltage Reg.	D-PAK	1595.00/2,500		
LD1086V	497-3447-5-ND	Adj., 1.5A LDO Positive Voltage Reg.	TO-220	1.80	1.56	1.20
LD1086V12	497-3448-5-ND	12V, 1.5A LDO Positive Voltage Reg.	TO-220	1.80	1.56	1.20
LD1086V18	497-3449-5-ND	1.8V, 1.5A LDO Positive Voltage Reg.	TO-220	1.80	1.56	1.20
LD1086V33	497-3450-5-ND	3.3V, 1.5A LDO Positive Voltage Reg.	TO-220	1.80	1.56	1.20
LD1086V50	497-3451-5-ND	5V, 1.5A LDO Positive Voltage Reg.	TO-220	1.80	1.56	1.20
LD1117ADT-TR	497-3452-1-ND	Adj., 1A LDO Positive Voltage Reg.	D-PAK	1.95	1.69	1.30
LD1117ADT-TR	497-3452-2-ND	Adj., 1A LDO Positive Voltage Reg.	D-PAK	1730.00/2,500		
LD1117ADT18TR	497-3453-1-ND	1.8V, 1A LDO Positive Voltage Reg.	D-PAK	1.56	1.30	1.10
LD1117ADT18TR	497-3453-2-ND	1.8V, 1A LDO Positive Voltage Reg.	D-PAK	1690.00/2,500		
LD1117ADT25TR	497-3454-1-ND	2.5V, 1A LDO Positive Voltage Reg.	D-PAK	1.56	1.30	1.10
LD1117ADT25TR	497-3454-2-ND	2.5V, 1A LDO Positive Voltage Reg.	D-PAK	1690.00/2,500		
LD1117ADT33TR	497-3455-1-ND	3.3V, 1A LDO Positive Voltage Reg.	D-PAK	1.56	1.30	1.10
LD1117ADT33TR	497-3455-2-ND	3.3V, 1A LDO Positive Voltage Reg.	D-PAK	1690.00/2,500		
LD1117AS18TR	497-1226-1-ND	1.8V, LDO Positive Voltage Reg.	SOT-223	1.65	1.38	1.16
LD1117AS18TR	497-1226-2-ND	1.8V, LDO Positive Voltage Reg.	SOT-223	1787.50/2,500		
LD1117AS25TR	497-1227-1-ND	2.5V, LDO Positive Voltage Reg.	SOT-223	1.65	1.38	1.16
LD1117AS25TR	497-1227-2-ND	2.5V, LDO Positive Voltage Reg.	SOT-223	1787.50/2,500		
LD1117AS33TR	497-1228-1-ND	3.3V, LDO Positive Voltage Reg.	SOT-223	1.65	1.38	1.16
LD1117AS33TR	497-1228-2-ND	3.3V, LDO Positive Voltage Reg.	SOT-223	1787.50/2,500		
LD1117ASTR	497-1229-1-ND	1.25V to 15V LDO Positive Volt. Reg.	SOT-223	1.65	1.38	1.16
LD1117ASTR	497-1229-2-ND	1.25V to 15V LDO Positive Volt. Reg.	SOT-223	1787.50/2,500		
LD1117AV	497-3456-5-ND	Adj., 1A LDO Positive Voltage Reg.	TO-220	1.05	.91	.70
LD1117AV18	497-1483-5-ND	1.8V, LDO Positive Voltage Reg.	TO-220	1.65	1.38	1.16
LD1117AV25	497-1484-5-ND	2.5V, LDO Positive Voltage Reg.	TO-220	1.65	1.38	1.16
LD1117AV33	497-1485-5-ND	3.3V, LDO Positive Voltage Reg.	TO-220	1.65	1.38	1.16
LD1117D25	497-1487-5-ND	2.5V, LDO Positive Voltage Reg.	8-SOIC	.77	.56	.43
LD1117D33	497-1488-5-ND	3.3V, LDO Positive Voltage Reg.	8-SOIC	.77	.56	.43
LD1117D33CTR	497-1230-1-ND	3.3V, LDO Positive Voltage Reg.	8-SOIC	.77	.56	.43
LD1117D33CTR	497-1230-2-ND	3.3V, LDO Positive Voltage Reg.	8-SOIC	605.00/2,500		
LD1117D50	497-1489-5-ND	5V, LDO Positive Voltage Reg.	8-SOIC	.77	.56	.43
LD1117DT12TR	497-1231-1-ND	1.2V, LDO Positive Voltage Reg.	D-PAK	1.16	1.01	.78
LD1117DT12TR	497-1231-2-ND	1.2V, LDO Positive Voltage Reg.	D-PAK	1030.00/2,500		
LD1117DT18TR	497-1232-1-ND	1.8V, LDO Positive Voltage Reg.	D-PAK	.77	.56	.43
LD1117DT18TR	497-1232-2-ND	1.8V, LDO Positive Voltage Reg.	D-PAK	605.00/2,500		
LD1117DT25CTR	497-1233-1-ND	2.5V, LDO Positive Voltage Reg.	D-PAK	.77	.56	.43
LD1117DT25CTR	497-1233-2-ND	2.5V, LDO Positive Voltage Reg.	D-PAK	605.00/2,500		
LD1117DT28TR	497-1234-1-ND	2.85V, LDO Positive Voltage Reg.	D-PAK	.77	.56	.43
LD1117DT28TR	497-1234-2-ND	2.85V, LDO Positive Voltage Reg.	D-PAK	605.00/2,500		
LD1117DT30	497-1490-5-ND	3V, LDO Positive Voltage Reg.	D-PAK	.77	.56	.43
LD1117DT33	497-2961-5-ND	3.3V, LDO Positive Voltage Reg.	D-PAK	1.56	1.30	1.10
LD1117DT33CTR	497-1235-1-ND	3.3V, LDO Positive Voltage Reg.	D-PAK	.77	.56	.43
LD1117DT33CTR	497-1235-2-ND	3.3V, LDO Positive Voltage Reg.	D-PAK	605.00/2,500		
LD1117DT33TR	497-1236-1-ND	3.3V, LDO Positive Voltage Reg.	D-PAK	.77	.56	.43
LD1117DT33TR	497-1236-2-ND	3.3V, LDO Positive Voltage Reg.	D-PAK	605.00/2,500		
LD1117DT50CTR	497-1237-1-ND	5V, LDO Positive Voltage Reg.	D-PAK	.77	.56	.43
LD1117DT50CTR	497-1237-2-ND	5V, LDO Positive Voltage Reg.	D-PAK	605.00/2,500		
LD1117DT50TR	497-1238-1-ND	5V, LDO Positive Voltage Reg.	D-PAK	.77	.56	.43
LD1117DT50TR	497-1238-2-ND	5V, LDO Positive Voltage Reg.	D-PAK	605.00/2,500		
LD1117DTTR	497-1239-1-ND	1.25V to 15V, LDO Positive Volt. Reg.	D-PAK	.77	.56	.43
LD1117DTTR	497-1239-2-ND	1.25V to 15V, LDO Positive Volt. Reg.	D-PAK	605.00/2,500		
LD1117S12TR	497-4240-1-ND	1.2V, LDO Positive Voltage Reg.	SOT-223	1.24	1.08	.83
LD1117S12TR	497-4240-2-ND	1.2V, LDO Positive Voltage Reg.	SOT-223	1097.50/2,500		
LD1117S25CTR	497-1240-1-ND	2.5V, LDO Positive Voltage Reg.	SOT-223	.77	.56	.43
LD1117S25CTR	497-1240-2-ND	2.5V, LDO Positive Voltage Reg.	SOT-223	605.00/2,500		
LD1117S33CTR	497-1241-1-ND	3.3V, LDO Positive Voltage Reg.	SOT-223	.77	.56	.43
LD1117S33CTR	497-1241-2-ND	3.3V, LDO Positive Voltage Reg.	SOT-223	605.00/2,500		
LD1117S33TR	497-1242-1-ND	3.3V, LDO Positive Voltage Reg.	SOT-223	.77	.56	.43
LD1117S33TR	497-1242-2-ND	3.3V, LDO Positive Voltage Reg.	SOT-223	605.00/2,500		
LD1117S50CTR	497-1243-1-ND	5V, LDO Positive Voltage Reg.	SOT-223	.77	.56	.43
LD1117S50CTR	497-1243-2-ND	5V, LDO Positive Voltage Reg.	SOT-223	605.00/2,500		
LD1117SC-R	497-4241-1-ND	Adj., LDO Positive Voltage Reg.	SOT-223	.99	.80	.60
LD1117SC-R	497-4241-2-ND	Adj., LDO Positive Voltage Reg.	SOT-223	785.00/2,500		
LD1117STR	497-1244-1-ND	1.25V to 15V, LDO Pos. Volt. Reg.	SOT-223	.77	.56	.43
LD1117STR	497-1244-2-ND	1.25V to 15V, LDO Pos. Volt. Reg.	SOT-223	605.00/2,500		
LD1117V18	497-3457-5-ND	1.8V, LDO Positive Voltage Reg.	TO-220	1.65	1.43	1.10
LD1117V25	497-3458-5-ND	2.5V, LDO Positive Voltage Reg.	TO-220	1.65	1.43	1.10
LD1117V25C	497-3459-5-ND	2.5V, LDO Positive Voltage Reg.	TO-220	1.50	1.30	1.00
LD1117V33	497-1491-5-ND	3.3V, LDO Positive Voltage Reg.	TO-220	.77	.56	.43
LD1117V33C	497-1492-5-ND	3.3V, LDO Positive Voltage Reg.	TO-220	.77	.56	.43
LD1585CD2M-R	497-3460-1-ND	Adj., 5A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1585CD2M-R	497-3460-2-ND	Adj., 5A LDO Positive Voltage Reg.	D2-PAK/A	878.00/1,000		
LD1585CD2M18R	497-3462-1-ND	1.8V, 5A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1585CD2M18R	497-3462-2-ND	1.8V, 5A LDO Positive Voltage Reg.	D2-PAK/A	878.00/1,000		
LD1585CD2M33R	497-3464-1-ND	3.3V, 5A LDO Positive Voltage Reg.	D2-PAK/A	1.95	1.63	1.37
LD1585CD2M33R	497-3464-2-ND	3.3V, 5A LDO Positive Voltage Reg.	D2-PAK/A	878.00/1,000		
LD1585CD2T18R	497-3465-1-ND	1.8V, 5A LDO Positive Voltage Reg.	D2-PAK	1.95	1.63	1.37
LD1585CV	497-3466-5-ND	Adj., 5A LDO Positive Voltage Reg.	TO-220	1.80	1.50	1.26
LD1585CV33	497-3467-5-ND	3.3V, 5A LDO Positive Voltage Reg.	TO-220	1.80	1.50	1.26
LD1585CV50	497-4809-5-ND	5V, 5A LDO Positive Voltage Regulator ***NEW!***	TO-220	1.80	1.50	1.26
LD2979M33TR	497-1512-1-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1.08	.87	.65
LD2979M33TR	497-1512-2-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1026.00/3,000		
LD2979M50TR	497-1513-1-ND	5V, LDO Voltage Regulator	SOT-23-5L	1.08	.87	.65
LD2979M50TR	497-1513-2-ND	5V, LDO Voltage Regulator	SOT-23-5L	1026.00/3,000		
LD2980ABM25TR	497-1515-1-ND	2.5V, LDO Voltage Regulator	SOT-23-5L	1.50	1.25	1.05
LD2980ABM25TR	497-1515-2-ND	2.5V, LDO Voltage Regulator	SOT-23-5L	1950.00/3,000		
LD2980ABM30TR	497-1516-1-ND	3V, LDO Voltage Regulator	SOT-23-5L	1.43	1.24	.95
LD2980ABM30TR	497-1516-2-ND	3V, LDO Voltage Regulator	SOT-23-5L	1515.00/3,000		
LD2980ABM33TR	497-1517-1-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1.43	1.24	.95
LD2980ABM33TR	497-1517-2-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1515.00/3,000		
LD2980ABM50TR	497-1518-1-ND	5V, LDO Voltage Regulator	SOT-23-5L	1.56	1.30	1.10
LD2980ABM50TR	497-1518-2-ND	5V, LDO Voltage Regulator	SOT-23-5L	2028.00/3,000		
LD2981ABM25TR	497-1520-1-ND	2.5V, LDO Voltage Regulator	SOT-23-5L	1.50	1.25	1.05
LD2981ABM25TR	497-1520-2-ND	2.5V, LDO Voltage Regulator	SOT-23-5L	1950.00/3,000		
LD2981ABM33TR	497-1521-1-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1.58	1.37	1.05
LD2981ABM33TR	497-1521-2-ND	3.3V, LDO Voltage Regulator	SOT-23-5L	1677.00/3,000		
LD2981ABM50TR	497-1522-1-ND	5V, LDO Voltage Regulator	SOT-23-5L	1.68	1.40	1.18
LD2981ABM50TR	497-1522-2-ND	5V, LDO Voltage Regulator	SOT-23-5L	2184.00/3,000		
LD2981ABU33TR	497-1524-1-ND	3.3V, LDO Voltage Regulator	SOT-89	1.50	1.25	1.05
LD2981ABU33TR	497-1524-2-ND	3.3V, LDO Voltage Regulator	SOT-89	1625.00/2,500		
LD2981ABU50TR	497-1525-1-ND	5V, LDO Voltage Regulator	SOT-89	1.50	1.25	1.05
LD2981ABU50TR	497-1525-2-ND	5V, LDO Voltage Regulator	SOT-89	1625.00/2,500		
LD2982AM18R	497-4253-1-ND	1.8V, LDO Voltage Regulator	SOT-23-5L	.98	.85	.65
LD2982AM18R	497-4253-2-ND	1.8V, LDO Voltage Regulator	SOT-23-5L	1038.00/3,000		
LD3985J18R	497-1526-1-ND	1.8V, LDO BiCMOS Voltage Regulator	Flip-Chip	1.46	1.27	.98
LD3985J33R	497-1527-1-ND	3.3V, LDO BiCMOS Voltage Regulator	Flip-Chip	1.46	1.27	.98
LD3985M25R	497-4254-1-ND	2.5V, LDO BiCMOS Voltage Regulator	SOT-23-5L	.95	.76	.57
LD3985M25R	497-4254-2-ND	2.5V, LDO BiCMOS Voltage Regulator	SOT-23-5L	897.00/3,000		
LD29080DT25R	497-4242-1-ND	2.5V, 800mA LDO Regulator	D-PAK	1.43	1.24	.95
LD29080DT25R	497-4242-2-ND	2.5V, 800mA LDO Regulator	D-PAK	1262.50/2,500		
LD29080DT33R	497-4243-1-ND	3.3V, 800mA LDO Regulator	D-PAK	1.43	1.24	.95
LD29080DT33R	497-4243-2-ND	3.3V, 800mA LDO Regulator	D-PAK	1262.50/2,500		
LD29080DT90R	497-4244-1-ND	9V, 800mA LDO Regulator	D-PAK	1.84	1.60	1.23
LD29080DT90R	497-4244-2-ND	9V, 800mA LDO Regulator	D-PAK	1630.00/2,500		
LD29080PT15R	497-4245-1-ND	1.5V, 800mA LDO Regulator	P-PAK	1.84	1.60	1.23
LD29080PT15R	497-4245-2-ND	1.5V, 800mA LDO Regulator	P-PAK	1630.00/2,500		
LD29080PT33R	497-4246-1-ND	3.3V, 800mA LDO Regulator	P-PAK	1.43	1.24	.95
LD29080PT33R	497-4246-2-ND	3.3V, 800mA LDO Regulator	P-PAK	1262.50/2,500		
LD29080PTR	497-4247-1-ND	Adj., 800mA LDO Regulator	P-PAK	1.69	1.47	1.13
LD29080PTR	497-4247-2-ND	Adj., 800mA LDO Regulator	P-PAK	1497.50/2,500		
LD29150DT15R	497-1493-1-ND	1.5V, 1.5A LDO Voltage Regulator	D-PAK	2.10	1.75	1.47
LD29150DT15R	497-1493-2-ND	1.5V, 1.5A LDO Voltage Regulator	D-PAK	2275.00/2,500		
LD29150DT18R	497-1494-1-ND	1.8V, 1.5A LDO Voltage Regulator	D-PAK	2.10	1.75	1.47
LD29150DT18R	497-1494-2-ND	1.8V, 1.5A LDO Voltage Regulator	D-PAK	2275.00/2,500		
LD29150DT25R	497-1495-1-ND	2.5V, 1.5A LDO Voltage Regulator	D-PAK	2.10	1.75	1.47
LD29150DT25R	497-1495-2-ND	2.5V, 1.5A LDO Voltage Regulator	D-PAK	2275.00/2,500		
LD29150DT33R	497-1496-1-ND	3.3V, 1.5A LDO Voltage Regulator	D-PAK	2.10	1.75	1.47
LD29150DT33R	497-1496-2-ND	3.3V, 1.5A LDO Voltage Regulator	D-PAK	2275.00/2,500		
LD29150DT50R	497-3468-1-ND	5V, 1.5A LDO Voltage Regulator	D-PAK	1.65	1.38	1.16
LD29150DT50R	497-3468-2-ND	5V, 1.5A LDO Voltage Regulator	D-PAK	1787.50/2,500		
LD29150PT25R	497-1497-1-ND	2.5V, 1.5A LDO Voltage Regulator	P-PAK	2.31	1.93	1.62
LD29150PT25R	497-1497-2-ND	2.5V, 1.5A LDO Voltage Regulator	P-PAK	2502.50/2,500		
LD29150PT33R	497-3469-1-ND	3.3V, 1.5A LDO Voltage Regulator	P-PAK	1.24	1.08	.83
LD29150PT33R	497-3469-2-ND	3.3V, 1.5A LDO Voltage Regulator	P-PAK	1097.50/2,500		
LD29150PT50R	497-4249-1-ND	5V, 1.5A LDO Voltage Regulator	P-PAK	1.69	1.47	1.13
LD29150PT50R	497-4249-2-ND	5V, 1.5A LDO Voltage Regulator	P-PAK	1497.50/2,500		
LD29150PTR	497-4250-1-ND	Adj., 1.5A LDO Voltage Regulator	P-PAK	1.73	1.50	1.15
LD29150PTR	497-4250-2-ND	Adj., 1.5A LDO Voltage Regulator	P-PAK	1530.00/2,500		
LD29150V25	497-3470-5-ND	2.5V, 1.5A LDO Voltage Regulator	TO-220	1.65	1.38	1.16
LD29150V80	497-1498-5-ND	8V, 1.5A LDO Voltage Regulator	TO-220	1.80	1.50	1.26
LD29300D2M15R	497-1499-1-ND	1.5V, 3A LDO Voltage Regulator	D2-PAK/A	2.79	2.33	1.96
LD29300D2M15R	497-1499-2-ND	1.5V, 3A LDO Voltage Regulator	D2-PAK/A	1256.00/1,000		
LD29300D2M18R	497-1500-1-ND	1.8V, 3A LDO Voltage Regulator	D2-PAK/A	2.79	2.33	1.96
LD29300D2M18R	497-1500-2-ND	1.8V, 3A LDO Voltage Regulator	D2-PAK/A	1256.00/1,000		
LD29300D2M25R	497-1501-1-ND	2.5V, 3A LDO Voltage Regulator	D2-PAK/A	2.55	2.13	1.79
LD29300D2M25R	497-1501-2-ND	2.5V, 3A LDO Voltage Regulator	D2-PAK/A	1148.00/1,000		
LD29300D2M33R	497-1502-1-ND	3.3V, 3A LDO Voltage Regulator	D2-PAK/A	2.79	2.33	1.96
LD29300D2M33R	497-1502-2-ND	3.3V, 3A LDO Voltage Regulator	D2-PAK/A	1256.00/1,000		
LD29300D2M50R	497-3471-1-ND	5V, 3A LDO Voltage Regulator	D2-PAK/A	2.79	2.33	1.96
LD29300D2M50R	497-3471-2-ND	5V, 3A LDO Voltage Regulator	D2-PAK/A	1256.00/1,000		
LD29300D2T15R	497-1503-1-ND	1.5V, 3A LDO Voltage Regulator	D2-PAK	2.79	2.33	1.96
LD29300D2T15R	497-1503-2-ND	1.5V, 3A LDO Voltage Regulator	D2-PAK	1256.00/1,000		
LD29300D2T18R	497-1504-1-ND	1.8V, 3A LDO Voltage Regulator	D2-PAK	2.79	2.33	1.96
LD29300D2T18R	497-1504-2-ND	1.8V, 3A LDO Voltage Regulator	D2-PAK	1256.00/1,000		
LD29300D2T25R	497-1505-1-ND	2.5V, 3A LDO Voltage Regulator	D2-PAK	2.55	2.13	1.79
LD29300D2T25R	497-1505-2-ND	2.5V, 3A LDO Voltage Regulator	D2-PAK	1148.00/1,000		
LD29300D2T33R	497-1506-1-ND	3.3V, 3A LDO Voltage Regulator	D2-PAK	2.79	2.33	1.96
LD29300D2T33R	497-1506-2-ND	3.3V, 3A LDO Voltage Regulator	D2-PAK	1256.00/1,000		
LD29300D2T80	497-4251-5-ND	8V, 3A LDO Voltage Regulator	D2-PAK	2.28	1.90	1.60
LD29300P2M50R	497-3476-1-ND	5V, 3A LDO Voltage Regulator	P2-PAK/A	2.28	1.90	1.60
LD29300P2M50R	497-3476-2-ND	5V, 3A LDO Voltage Regulator	P2-PAK/A	1026.00/1,000		
LD29300V15	497-1507-5-ND	1.5V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD29300V18	497-1508-5-ND	1.8V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD29300V25	497-1509-5-ND	2.5V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD29300V33	497-1510-5-ND	3.3V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD29300V50	497-4252-5-ND	5V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD29300V80	497-1511-5-ND	8V, 3A LDO Voltage Regulator	TO-220	2.55	2.13	1.79
LD2980CM18TR	497-3477-1-ND	1.8V, 50mA LDO Volt. Regulator	SOT-23-5L	1.46	1.27	.98
LD2980CM18TR	497-3477-2-ND	1.8V, 50mA LDO Volt. Regulator	SOT-23-5L	1557.00/3,000		
LD2980CM25TR	497-3478-1-ND	2.5V, 50mA LDO Voltage Regulator	SOT-23-5L	1.31	1.14	.88
LD2980CM25TR	497-3478-2-ND	2.5V, 50mA LDO Voltage Regulator	SOT-23-5L	1398.00/3,000		
LD2980CM33TR	497-3479-1-ND	3.3V, 50mA LDO Volt. Regulator	SOT-23-5L	1.28	1.11	.85
LD2980CM33TR	497-3479-2-ND	3.3V, 50mA LDO Volt. Regulator	SOT-23-5L	1356.00/3,000		
LD2980CU18TR	497-3480-1-ND	1.8V, 50mA LDO Voltage Regulator	SOT-89	1.73	1.50	1.15
LD2980CU18TR	497-3480-2-ND	1.8V, 50mA LDO Voltage Regulator	SOT-89	1530.00/2,500		
LD2980CU50TR	497-3481-1-ND	5V, 50mA LDO Voltage Regulator	SOT-89	1.73	1.50	1.15
LD2980CU50TR	497-3481-2-ND	5V, 50mA LDO Voltage Regulator	SOT-89	1530.00/2,500		
LD2981CM18TR	497-3482-1-ND	1.8V, 100mA LDO Volt. Regulator	SOT-23-5L	1.43	1.24	.95
LD2981CM18TR	497-3482-2-ND	1.8V, 100mA LDO Volt. Regulator	SOT-23-5L	1515.00/3,000		
LD2981CU33TR	497-3483-1-ND	3.3V, 100mA LDO Voltage Regulator	SOT-89	1.31	1.14	.88
LD2981CU33TR	497-3483-2-ND	3.3V, 100mA LDO Voltage Regulator	SOT-89	1165.00/2,500		
LD2981CU50TR	497-3484-1-ND	5V, 100mA LDO Voltage Regulator	SOT-89	1.31	1.14	.88
LD2981CU50TR	497-3484-2-ND	5V, 100mA LDO Voltage Regulator	SOT-89	1165.00/2,500		
LD2982AM15R	497-3485-1-ND	1.5V, 50mA LDO Voltage Reg.	SOT-23-5L	1.61	1.40	1.08
LD2982AM15R	497-3485-2-ND	1.5V, 50mA LDO Voltage Reg.	SOT-23-5L	1716.00/3,000		
LD2982AM25R	497-3486-1-ND	2.5V, 50mA LDO Voltage Reg.	SOT-23-5L	1.61	1.40	1.08
LD2982AM25R	497-3486-2-ND	2.5V, 50mA LDO Voltage Reg.	SOT-23-5L	1716.00/3,000		
LD2982AM33R	497-3487-1-ND	3.3V, 50mA LDO Voltage Reg.	SOT-23-5L	1.05	.91	.70
LD2982AM33R	497-3487-2-ND	3.3V, 50mA LDO Voltage Reg.	SOT-23-5L	1116.00/3,000		
LD2982AM50R	497-3488-1-ND	5V, 50mA LDO Voltage Regulator	SOT-23-5L	1.58	1.37	1.05
LD2982AM50R	497-3488-2-ND	5V, 50mA LDO Voltage Regulator	SOT-23-5L	1677.00/3,000		
LD2982BM33R	497-3489-1-ND	3.3V, 50mA LDO Voltage Reg.	SOT-23-5L	1.61	1.40	1.08

(Continued)

STMicroelectronics

LOW DROPOUT REGULATORS *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
LD2982BM33R	497-3489-2-ND	3.3V, 50mA LDO Voltage Reg.	SOT-23-5L	1716.00/3,000		
LD2982BM50R	497-3490-1-ND	5V, 50mA LDO Voltage Regulator	SOT-23-5L	1.58	1.37	1.05
LD2982BM50R	497-3490-2-ND	5V, 50mA LDO Voltage Regulator	SOT-23-5L	1677.00/3,000		
LD2985AM15R	497-3491-1-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM15R	497-3491-2-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985AM18R	497-3492-1-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM18R	497-3492-2-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985AM25R	497-3493-1-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM25R	497-3493-2-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985AM33R	497-3494-1-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM33R	497-3494-2-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985AM50R	497-3495-1-ND	5V, 150mA LDO Voltage Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985AM50R	497-3495-2-ND	5V, 150mA LDO Voltage Regulator	SOT-23-5L	1797.00/3,000		
LD2985BM15R	497-3496-1-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM15R	497-3496-2-ND	1.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985BM18R	497-3497-1-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM18R	497-3497-2-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985BM25R	497-3498-1-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM25R	497-3498-2-ND	2.5V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985BM27R	497-4940-1-ND	2.7V, 150mA LDO Voltage Reg. ***NEW!***	SOT-23-5L	1.01	.88	.68
LD2985BM27R	497-4940-2-ND	2.7V, 150mA LDO Voltage Reg. ***NEW!***	SOT-23-5L	1077.00/3,000		
LD2985BM33R	497-3499-1-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM33R	497-3499-2-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1797.00/3,000		
LD2985BM50R	497-3500-1-ND	5V, 150mA LDO Voltage Regulator	SOT-23-5L	1.69	1.47	1.13
LD2985BM50R	497-3500-2-ND	5V, 150mA LDO Voltage Regulator	SOT-23-5L	1797.00/3,000		
LD3985G18R	497-3501-1-ND	1.8V, 150mA LDO Volt. Regulator	TSOT-23-5L	1.46	1.27	.98
LD3985G18R	497-3501-2-ND	1.8V, 150mA LDO Volt. Regulator	TSOT-23-5L	1557.00/3,000		
LD3985G25R	497-3502-1-ND	2.5V, 150mA LDO Volt. Regulator	TSOT-23-5L	1.46	1.27	.98
LD3985G25R	497-3502-2-ND	2.5V, 150mA LDO Volt. Regulator	TSOT-23-5L	1557.00/3,000		
LD3985M18R	497-3503-1-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1.46	1.27	.98
LD3985M18R	497-3503-2-ND	1.8V, 150mA LDO Volt. Regulator	SOT-23-5L	1557.00/3,000		
LD3985M33R	497-3504-1-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1.46	1.27	.98
LD3985M33R	497-3504-2-ND	3.3V, 150mA LDO Volt. Regulator	SOT-23-5L	1557.00/3,000		
LD29080PT25R	497-4648-1-ND	2.5V, 800mA LDO Volt. Reg. ***NEW!***	P-PAK	1.43	1.24	.95
LD29080PT25R	497-4648-2-ND	2.5V, 800mA LDO Volt. Reg. ***NEW!***	P-PAK	1262.50/2,500		
LDR2533BPT-R	497-3505-1-ND	2.5V to 3.3V LDO Dual Voltage Reg.	P-PAK	1.62	1.35	1.14
LDR2533K7-R	497-4256-1-ND	2.5V to 3.3V LDO Voltage Regulator	7-SPAK	1.65	1.38	1.16
LDR2533K7-R	497-4256-2-ND	2.5V to 3.3V LDO Voltage Regulator	7-SPAK	1486.00/2,000		
LDS3985M33R	497-4257-1-ND	3.3V, 300mA LDO Volt. Regulator	SOT-23-5L	.90	.72	.54
LDS3985M33R	497-4257-2-ND	3.3V, 300mA LDO Volt. Regulator	SOT-23-5L	855.00/3,000		
LE30CZ	497-1528-ND	3V, LDO Voltage Regulator	TO-92	1.05	.91	.70
LE33CZ-TR	497-4258-1-ND	3.3V, LDO Voltage Regulator	TO-92	.86	.69	.52
LE33CZ-TR	497-4258-2-ND	3.3V, LDO Voltage Regulator	TO-92	590.00/2,000		
LE40CZ	497-1529-ND	4V, LDO Voltage Regulator	TO-92	1.05	.91	.70
LE45ABD-TR	497-1530-1-ND	4.5V, LDO Voltage Regulator	8-SOIC	1.31	1.14	.88
LE45ABD-TR	497-1530-2-ND	4.5V, LDO Voltage Regulator	8-SOIC	1165.00/2,500		
LE50ABZ-AP	497-1531-1-ND	5V, LDO Voltage Regulator	TO-92	1.35	1.17	.90
LE50ABZ-AP	497-1531-3-ND	5V, LDO Voltage Regulator	TO-92	1044.00/2,000		
LF33CDT-TR	497-1532-1-ND	3.3V, LDO Voltage Regulator	D-PAK	1.80	1.56	1.20
LF33CDT-TR	497-1532-2-ND	3.3V, LDO Voltage Regulator	D-PAK	1595.00/2,500		
LF50ABDT	497-1533-5-ND	5V, LDO Voltage Regulator	D-PAK	1.50	1.25	1.05
LF50CDT-TR	497-1534-1-ND	5V, LDO Voltage Regulator	D-PAK	1.80	1.56	1.20
LF50CDT-TR	497-1534-2-ND	5V, LDO Voltage Regulator	D-PAK	1595.00/2,500		
LF60ABDT-TR	497-1535-1-ND	6V, LDO Voltage Regulator	D-PAK	1.83	1.53	1.29
LF60ABDT-TR	497-1535-2-ND	6V, LDO Voltage Regulator	D-PAK	1982.50/2,500		
LF80ABDT	497-1536-5-ND	8V, LDO Voltage Regulator	D-PAK	1.50	1.25	1.05
LF80CDT-TR	497-1537-1-ND	8V, LDO Voltage Regulator	D-PAK	1.80	1.56	1.20
LF80CDT-TR	497-1537-2-ND	8V, LDO Voltage Regulator	D-PAK	1595.00/2,500		
LF85CDT	497-1538-5-ND	8.5V, LDO Voltage Regulator	D-PAK	1.65	1.43	1.10
LF90ABDT-TR	497-1539-1-ND	9V, LDO Voltage Regulator	D-PAK	1.62	1.35	1.14
LF90ABDT-TR	497-1539-2-ND	9V, LDO Voltage Regulator	D-PAK	1755.00/2,500		
LK112SM50TR	497-4259-1-ND	5V, LDO Voltage Regulator	SOT-23-5L	.86	.69	.52
LK112SM50TR	497-4259-2-ND	5V, LDO Voltage Regulator	SOT-23-5L	813.00/3,000		
LK115D33-TR	497-1540-1-ND	3.3V, LDO Voltage Regulator	8-SOIC	1.01	.88	.68
LK115D33-TR	497-1540-2-ND	3.3V, LDO Voltage Regulator	8-SOIC	897.50/2,500		
LM2931AD50R	497-1563-1-ND	5V, LDO Voltage Regulator	8-SOIC	.94	.82	.63
LM2931AD50R	497-1563-2-ND	5V, LDO Voltage Regulator	8-SOIC	832.50/2,500		
LM2931ADT50R	497-1564-1-ND	5V, LDO Voltage Regulator	D-PAK	.94	.82	.63
LM2931ADT50R	497-1564-2-ND	5V, LDO Voltage Regulator	D-PAK	832.50/2,500		
LM2931AV50	497-1565-5-ND	5V, LDO Voltage Regulator	TO-220	1.13	.90	.68
LM2931AZ50R	497-4262-1-ND	5V, LDO Voltage Regulator	TO-92	.77	.62	.46
LM2931AZ50R	497-4262-2-ND	5V, LDO Voltage Regulator	TO-92	528.00/2,000		
LM2931D	497-4263-5-ND	2.5V to 26V, LDO Voltage Regulator	8-SOIC	1.05	.91	.70

STMicroelectronics

VOLTAGE RESET

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM809MWX6F	497-3326-1-ND	4.38V Reset Circuit	SOT-23	.52	.42	.31
STM809MWX6F	497-3326-2-ND	4.38V Reset Circuit	SOT-23	465.00/3,000		
STM809RWX6F	497-3327-1-ND	2.63V Reset Circuit	SOT-23	.52	.42	.31
STM809RWX6F	497-3327-2-ND	2.63V Reset Circuit	SOT-23	465.00/3,000		
STM809SWX6F	497-3338-1-ND	2.93V Reset Circuit	SOT-23	.52	.42	.31
STM809SWX6F	497-3338-2-ND	2.93V Reset Circuit	SOT-23	465.00/3,000		
STM809TWX6F	497-3339-1-ND	3.08V Reset Circuit	SOT-23	.52	.42	.31
STM809TWX6F	497-3339-2-ND	3.08V Reset Circuit	SOT-23	465.00/3,000		
STM810LWX6F	497-3340-1-ND	4.63V Reset Circuit	SOT-23	.52	.42	.31
STM810LWX6F	497-3340-2-ND	4.63V Reset Circuit	SOT-23	465.00/3,000		
STM810MWX6F	497-3341-1-ND	4.38V Reset Circuit	SOT-23	.52	.42	.31
STM810MWX6F	497-3341-2-ND	4.38V Reset Circuit	SOT-23	465.00/3,000		
STM810RWX6F	497-3342-1-ND	2.63V Reset Circuit	SOT-23	.52	.42	.31
STM810RWX6F	497-3342-2-ND	2.63V Reset Circuit	SOT-23	465.00/3,000		
STM810SWX6F	497-3343-1-ND	2.93V Reset Circuit	SOT-23	.52	.42	.31
STM810SWX6F	497-3343-2-ND	2.93V Reset Circuit	SOT-23	465.00/3,000		
STM810TWX6F	497-3344-1-ND	3.08V Reset Circuit	SOT-23	.52	.42	.31
STM810TWX6F	497-3344-2-ND	3.08V Reset Circuit	SOT-23	465.00/3,000		
STM811LW16F	497-3345-1-ND	4.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM811LW16F	497-3345-2-ND	4.63V Reset Circuit	SOT-143-4	744.00/3,000		
STM811MW16F	497-3346-1-ND	4.38V Reset Circuit	SOT-143-4	.78	.63	.47
STM811MW16F	497-3346-2-ND	4.38V Reset Circuit	SOT-143-4	744.00/3,000		
STM811RW16F	497-3347-1-ND	2.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM811RW16F	497-3347-2-ND	2.63V Reset Circuit	SOT-143-4	744.00/3,000		
STM811SW16F	497-3348-1-ND	2.93V Reset Circuit	SOT-143-4	.78	.63	.47
STM811SW16F	497-3348-2-ND	2.93V Reset Circuit	SOT-143-4	744.00/3,000		
STM811TW16F	497-3349-1-ND	3.08V Reset Circuit	SOT-143-4	.78	.63	.47
STM811TW16F	497-3349-2-ND	3.08V Reset Circuit	SOT-143-4	744.00/3,000		
STM812LW16F	497-3350-1-ND	4.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM812LW16F	497-3350-2-ND	4.63V Reset Circuit	SOT-143-4	744.00/3,000		
STM812MW16F	497-3351-1-ND	4.38V Reset Circuit	SOT-143-4	.78	.63	.47
STM812MW16F	497-3351-2-ND	4.38V Reset Circuit	SOT-143-4	744.00/3,000		
STM812 RW16F	497-3352-1-ND	2.63V Reset Circuit	SOT-143-4	.78	.63	.47
STM812RW16F	497-3352-2-ND	2.63V Reset Circuit	SOT-143-4	744.00/3,000		
STM812SW16F	497-3353-1-ND	2.93V Reset Circuit	SOT-143-4	.78	.63	.47
STM812SW16F	497-3353-2-ND	2.93V Reset Circuit	SOT-143-4	744.00/3,000		
STM812TW16F	497-3354-1-ND	3.08V Reset Circuit	SOT-143-4	.78	.63	.47
STM812TW16F	497-3354-2-ND	3.08V Reset Circuit	SOT-143-4	744.00/3,000		
STM1001LWX6F	497-4797-1-ND	4.63V Reset Circuit ***NEW!***	SOT-23	.52	.42	.31
STM1001LWX6F	497-4797-2-ND	4.63V Reset Circuit ***NEW!***	SOT-23	465.00/3,000		
STM1001MWX6F	497-4658-1-ND	4.63V Reset Circuit ***NEW!***	SOT-23	.77	.62	.46
STM1001MWX6F	497-4658-2-ND	4.63V Reset Circuit ***NEW!***	SOT-23	726.00/3,000		
STM1816SWX7F	497-4791-1-ND	2.88V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1816SWX7F	497-4791-2-ND	2.88V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1816TWX7F	497-4793-1-ND	3.06V Low Power Reset Circuit ***NEW!***	SOT-23	.74	.60	.45
STM1816TWX7F	497-4793-2-ND	3.06V Low Power Reset Circuit ***NEW!***	SOT-23	705.00/3,000		
STM1818SWX7F	497-4795-1-ND	2.88V Low Power Reset Circuit ***NEW!***	SOT-23	.88	.71	.53
STM1818SWX7F	497-4795-2-ND	2.88V Low Power Reset Circuit ***NEW!***	SOT-23	834.00/3,000		
STM1818TWX7F	497-4796-1-ND	3.06V Low Power Reset Circuit ***NEW!***	SOT-23	.88	.71	.53
STM1818TWX7F	497-4796-2-ND	3.06V Low Power Reset Circuit ***NEW!***	SOT-23	834.00/3,000		
STM6321LWY6F	497-4659-1-ND	4.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.77	1.48	1.24
STM6321LWY6F	497-4659-2-ND	4.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2301.00/3,000		
STM6321MWY6F	497-4788-1-ND	4.39V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.77	1.48	1.24
STM6321MWY6F	497-4788-2-ND	4.39V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2301.00/3,000		
STM6321RWY6F	497-4660-1-ND	2.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.77	1.48	1.24
STM6321RWY6F	497-4660-2-ND	2.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2301.00/3,000		
STM6321TWY6F	497-4661-1-ND	3.08V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.77	1.48	1.24
STM6321TWY6F	497-4661-2-ND	3.08V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2301.00/3,000		
STM6322MWY6F	497-4662-1-ND	4.39V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.77	1.48	1.24
STM6322MWY6F	497-4662-2-ND	4.39V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2301.00/3,000		
STM6322SWY6F	497-4663-1-ND	2.93V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.77	1.48	1.24
STM6322SWY6F	497-4663-2-ND	2.93V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2301.00/3,000		
STM6322TWY6F	497-4798-1-ND	3.08V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.77	1.48	1.24
STM6322TWY6F	497-4798-2-ND	3.08V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2301.00/3,000		
STM6821MWY6F	497-4801-1-ND	4.39V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6821MWY6F	497-4801-2-ND	4.39V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		
STM6821SWY6F	497-4800-1-ND	2.93V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6821SWY6F	497-4800-2-ND	2.93V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		
STM6822LWY6F	497-4664-1-ND	4.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.77	1.48	1.24
STM6822LWY6F	497-4664-2-ND	4.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2301.00/3,000		
STM6822RWY6F	497-4665-1-ND	2.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.77	1.48	1.24
STM6822RWY6F	497-4665-2-ND	2.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2301.00/3,000		
STM6822SWY6F	497-4799-1-ND	2.93V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.77	1.48	1.24
STM6822SWY6F	497-4799-2-ND	2.93V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2301.00/3,000		
STM6822TWY6F	497-4666-1-ND	3.08V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.77	1.48	1.24
STM6822TWY6F	497-4666-2-ND	3.08V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2301.00/3,000		
STM6823MWY6F	497-4794-1-ND	4.39V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6823MWY6F	497-4794-2-ND	4.39V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		
STM6823SWY6F	497-4790-1-ND	2.93V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6823SWY6F	497-4790-2-ND	2.93V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		
STM6824LWY6F	497-4789-1-ND	4.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6824LWY6F	497-4789-2-ND	4.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		
STM6824RWY6F	497-4784-1-ND	2.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6824RWY6F	497-4784-2-ND	2.63V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		
STM6824TWY6F	497-4787-1-ND	3.08V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6824TWY6F	497-4787-2-ND	3.08V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		

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STMicroelectronics

VOLTAGE RESET *(Continued)*

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
STM6825MWY6F	497-4786-1-ND	4.39V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6825MWY6F	497-4786-2-ND	4.39V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		
STM6825TWY6F	497-4785-1-ND	3.08V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	1.80	1.50	1.26
STM6825TWY6F	497-4785-2-ND	3.08V Supervisor with Watchdog Timer and Push-Button Reset ***NEW!***	SOT-23-5	2340.00/3,000		

STMicroelectronics

MEMORY

RoHS Compliant Parts Available

EPROM

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M27C64A-10F1	497-1684-5-ND	64K-Bit (8Kb x 8), 100nS, UV EPROM	28-FDip	5.00	4.35	3.24
M27C64A-15F1	497-1685-5-ND	64K-Bit (8Kb x 8), 150nS, UV EPROM	28-FDip	5.00	4.35	3.24
M27C64A-20F1	497-1686-5-ND	64K-Bit (8Kb x 8), 200nS, UV EPROM	28-FDip	5.00	4.35	3.24
M27C256B-10B6	497-1641-5-ND	256K-Bit (32Kb x 8), 100nS, OTP EPROM	28-PDip	1.53	1.28	1.08
M27C256B-10F1	497-1642-5-ND	256K-Bit (32Kb x 8), 100nS, UV EPROM	28-FDip	3.11	2.71	2.02
M27C256B-12B1	497-1643-5-ND	256K-Bit (32Kb x 8), 120nS, OTP EPROM	28-PDip	1.53	1.28	1.08
M27C256B-12C1	497-1644-5-ND	256K-Bit (32Kb x 8), 120nS, OTP EPROM	32-PLCC	1.53	1.28	1.08
M27C256B-12C6	497-1645-5-ND	256K-Bit (32Kb x 8), 120nS, OTP EPROM	32-PLCC	1.53	1.28	1.08
M27C256B-12F1	497-1646-5-ND	256K-Bit (32Kb x 8), 120nS, UV EPROM	28-FDip	3.11	2.71	2.02
M27C256B-12F6	497-1647-5-ND	256K-Bit (32Kb x 8), 120nS, UV EPROM	28-FDip	3.11	2.71	2.02
M27C256B-15B1	497-1648-5-ND	256K-Bit (32Kb x 8), 150nS, OTP EPROM	28-PDip	1.53	1.28	1.08
M27C256B-15F1	497-1650-5-ND	256K-Bit (32Kb x 8), 150nS, UV EPROM	28-FDip	3.11	2.71	2.02
M27C256B-70C1	497-1652-5-ND	256K-Bit (32Kb x 8), 70nS, OTP EPROM	32-PLCC	1.53	1.28	1.08
M27C256B-90B1	497-1653-5-ND	256K-Bit (32Kb x 8), 90nS, OTP EPROM	28-PDip	1.53	1.28	1.08
M27C256B-90C1	497-1654-5-ND	256K-Bit (32Kb x 8), 90nS, OTP EPROM	32-PLCC	1.53	1.28	1.08
M27C256B-90C6	497-1655-5-ND	256K-Bit (32Kb x 8), 90nS, OTP EPROM	32-PLCC	1.53	1.28	1.08
M27C256B-90F6	497-1656-5-ND	256K-Bit (32Kb x 8), 90nS, OTP EPROM	28-FDip	3.11	2.71	2.02
M27C512-10F1	497-1667-5-ND	512K-Bit (64Kb x 8), 100nS, UV EPROM	28-FDip	3.24	2.82	2.10
M27C512-12B1	497-1668-5-ND	512K-Bit (64Kb x 8), 120nS, OTP EPROM	28-PDip	1.71	1.43	1.20
M27C512-12C1	497-1669-5-ND	512K-Bit (64Kb x 8), 120nS, OTP EPROM	32-PLCC	1.71	1.43	1.20
M27C512-12F1	497-1671-5-ND	512K-Bit (64Kb x 8), 120nS, UV EPROM	28-FDip	3.24	2.82	2.10
M27C512-15B1	497-1672-5-ND	512K-Bit (64Kb x 8), 150nS, OTP EPROM	28-PDip	1.71	1.43	1.20
M27C512-15B6	497-1673-5-ND	512K-Bit (64Kb x 8), 150nS, OTP EPROM	28-PDip	1.71	1.43	1.20
M27C512-15C1	497-1674-5-ND	512K-Bit (64Kb x 8), 150nS, OTP EPROM	32-PLCC	1.71	1.43	1.20
M27C512-15F1	497-1675-5-ND	512K-Bit (64Kb x 8), 150nS, UV EPROM	28-FDip	3.24	2.82	2.10
M27C512-15F6	497-1676-5-ND	512K-Bit (64Kb x 8), 150nS, UV EPROM	28-FDip	3.24	2.82	2.10
M27C512-70C6	497-1678-5-ND	512K-Bit (64Kb x 8), 70nS, OTP EPROM	32-PLCC	1.71	1.43	1.20
M27C512-70XF1	497-1679-5-ND	512K-Bit (64Kb x 8), 70nS, UV EPROM	28-FDip	3.24	2.82	2.10
M27C512-90B1	497-1681-5-ND	512K-Bit (64Kb x 8), 90nS, OTP EPROM	28-PDip	1.71	1.43	1.20
M27C512-90B6	497-1682-5-ND	512K-Bit (64Kb x 8), 90nS, OTP EPROM	28-PDip	1.71	1.43	1.20
M27C512-90C6	497-1683-5-ND	512K-Bit (64Kb x 8), 90nS, OTP EPROM	32-PLCC	1.71	1.43	1.20
M27C801-100B1	497-1687-5-ND	8M-Bit (1Mb x 8), 100nS, OTP EPROM	32-PDip	5.75	5.25	4.15
M27C801-100F1	497-1688-5-ND	8M-Bit (1Mb x 8), 100nS, UV EPROM	32-FDip	8.05	7.35	5.81
M27C801-100N1	497-1689-5-ND	8M-Bit (1Mb x 8), 100nS, OTP EPROM	32-TSOP	5.75	5.25	4.15
M27C801-120B1	497-1690-5-ND	8M-Bit (1Mb x 8), 120nS, OTP EPROM	32-PDip	5.75	5.25	4.15
M27C1001-10B1	497-1625-5-ND	1M-Bit (125Kb x 8), 100nS, OTP EPROM	32-PDip	2.55	2.13	1.79
M27C1001-10C1	497-1626-5-ND	1M-Bit (125Kb x 8), 100nS, OTP EPROM	32-PLCC	2.55	2.13	1.79
M27C1001-10F1	497-1627-5-ND	1M-Bit (125Kb x 8), 100nS, UV EPROM	32-FDip	3.83	3.34	2.49
M27C1001-12B1	497-1628-5-ND	1M-Bit (125Kb x 8), 120nS, OTP EPROM	32-PDip	2.55	2.13	1.79
M27C1001-12C1	497-1629-5-ND	1M-Bit (125Kb x 8), 120nS, OTP EPROM	32-PLCC	2.55	2.13	1.79
M27C1001-12C6	497-1630-5-ND	1M-Bit (125Kb x 8), 120nS, OTP EPROM	32-PLCC	2.55	2.13	1.79
M27C1001-12F1	497-1631-5-ND	1M-Bit (128Kb x 8), 120nS, UV EPROM	32-FDip	3.83	3.34	2.49
M27C1001-12F6	497-1632-5-ND	1M-Bit (128Kb x 8), 120nS, UV EPROM	32-FDip	3.83	3.34	2.49
M27C1001-15B1	497-1633-5-ND	1M-Bit (128Kb x 8), 150nS, OTP EPROM	32-PDip	2.55	2.13	1.79
M27C1001-15C1	497-1634-5-ND	1M-Bit (128Kb x 8), 150nS, OTP EPROM	32-PLCC	2.55	2.13	1.79
M27C1001-15F1	497-1635-5-ND	1M-Bit (128Kb x 8), 150nS, UV EPROM	32-FDip	3.83	3.34	2.49
M27C1001-70C1	497-1636-5-ND	1M-Bit (128Kb x 8), 70nS, OTP EPROM	32-PLCC	2.55	2.13	1.79
M27C1001-70F1	497-1637-5-ND	1M-Bit (128Kb x 8), 70nS, UV EPROM	32-FDip	3.83	3.34	2.49
M27C2001-10B1	497-1638-5-ND	2M-Bit (256Kb x 8), 100nS, OTP EPROM	32-PDip	2.85	2.38	2.00
M27C2001-10F1	497-1639-5-ND	2M-Bit (256Kb x 8), 100nS, UV EPROM	32-FDip	5.27	4.59	3.42
M27C2001-55C1	497-1640-5-ND	2M-Bit (256Kb x 8), 55nS, OTP EPROM	32-PLCC	2.85	2.38	2.00
M27C4001-10B1	497-1657-5-ND	4M-Bit (512Kb x 8), 100nS, OTP EPROM	32-PDip	4.19	3.65	2.72
M27C4001-10F1	497-1658-5-ND	4M-Bit (512Kb x 8), 100nS, UV EPROM	32-FDip	6.10	5.57	4.40
M27C4001-12C1	497-1660-5-ND	4M-Bit (512Kb x 8), 120nS, OTP EPROM	32-PLCC	4.19	3.65	2.72
M27C4001-12F1	497-1661-5-ND	4M-Bit (512Kb x 8), 120nS, UV EPROM	32-FDip	6.10	5.57	4.40
M27C4001-15C1	497-1662-5-ND	4M-Bit (512Kb x 8), 150nS, OTP EPROM	32-PLCC	4.19	3.65	2.72
M27C4001-15F1	497-1663-5-ND	4M-Bit (512Kb x 8), 150nS, UV EPROM	32-FDip	6.10	5.57	4.40
M27C4001-80XF1	497-1664-5-ND	4M-Bit (512Kb x 8), 80nS, UV EPROM	32-FDip	6.10	5.57	4.40
M27C4002-10B1	497-1665-5-ND	4M-Bit (256Kb x 16), 100nS, OTP EPROM	40-PDip	4.59	4.00	2.98
M27C4002-12C1	497-1666-5-ND	4M-Bit (256Kb x 16), 120nS, OTP EPROM	44-PLCC	4.59	4.00	2.98
M27W101-80K6	497-1691-5-ND	1M-Bit (128Kb x 8), Low Voltage, 80nS, OTP EPROM	32-PLCC	2.55	2.13	1.79
M27W201-80K6	497-1692-5-ND	2M-Bit (256Kb x 8), Low Voltage, 80nS, OTP EPROM	32-PLCC	2.85	2.38	2.00
M27W401-80K6	497-1693-5-ND	4M-Bit (512Kb x 8), Low Voltage, 80nS, OTP EPROM	32-PLCC	4.19	3.65	2.72

EEPROM

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M24128-BWMN6	497-1599-5-ND	5.5V, 128K-Bit Serial EEPROM	8-SOIC	3.38	2.94	2.19
M24256-BWMN6T	497-1601-1-ND	5.5V, 256K-Bit Serial EEPROM	8-SOIC	3.92	3.41	2.54
M24256-BWMN6T	497-1601-2-ND	5.5V, 256K-Bit Serial EEPROM	8-SOIC	4640.00/2,500		
M24C01-WMN6T	497-1602-1-ND	2.5V, 1K-Bit Serial EEPROM	8-SOIC	1.31	1.14	.88
M24C01-WMN6T	497-1602-2-ND	2.5V, 1K-Bit Serial EEPROM	8-SOIC	1165.00/2,500		
M24C02-MN6T	497-1604-1-ND	5.5V, 2K-Bit Serial EEPROM	8-SOIC	1.39	1.21	.93
M24C02-RDW6T	497-1605-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	1.43	1.24	.95
M24C02-RDW6T	497-1605-2-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	2020.00/4,000		
M24C02-WBN6	497-1606-5-ND	2.5V, 2K-Bit Serial EEPROM	8-PDip	1.31	1.14	.88
M24C02-WDW6T	497-1607-1-ND	2.5V, 2K-Bit Serial EEPROM	8-TSSOP	.59	.48	.36
M24C02-WDW6TP	497-4926-1-ND	2.5V, 2K-Bit Serial EEPROM ***NEW!***	8-TSSOP	.59	.48	.36
M24C02-WDW6TP	497-4926-2-ND	2.5V, 2K-Bit Serial EEPROM ***NEW!***	8-TSSOP	708.00/4,000		
M24C04-BN6	497-1609-5-ND	5.5V, 4K-Bit Serial EEPROM	8-PDip	1.43	1.24	.95
M24C04-MN6T	497-1610-1-ND	5.5V, 4K-Bit Serial EEPROM	8-SOIC	1.50	1.30	1.00
M24C04-MN6T	497-1610-2-ND	5.5V, 4K-Bit Serial EEPROM	8-SOIC	1330.00/2,500		
M24C04-WDW6T	497-1611-1-ND	2.5V, 4K-Bit Serial EEPROM	8-TSSOP	1.69	1.47	1.13
M24C04-WDW6T	497-1611-2-ND	2.5V, 4K-Bit Serial EEPROM	8-TSSOP	2396.00/4,000		
M24C04-WMN6T	497-1612-1-ND	2.5V, 4K-Bit Serial EEPROM	8-SOIC	1.65	1.43	1.10
M24C04-WMN6T	497-1612-2-ND	2.5V, 4K-Bit Serial EEPROM	8-SOIC	1462.50/2,500		
M24C08-BN6	497-1613-5-ND	5.5V, 8K-Bit Serial EEPROM	8-PDip	1.56	1.30	1.10
M24C16-BN6	497-1615-5-ND	5.5V, 16K-Bit Serial EEPROM	8-PDip	2.13	1.78	1.50
M24C16-WMN6T	497-1616-1-ND	2.5V, 16K-Bit Serial EEPROM	8-SOIC	2.43	2.03	1.71
M24C16-WMN6T	497-1616-2-ND	2.5V, 16K-Bit Serial EEPROM	8-SOIC	2632.50/2,500		
M24C32-WMN6T	497-1618-1-ND	2.5V, 32K-Bit Serial EEPROM	8-SOIC	.93	.75	.56
M24C32-WMN6TP	497-5027-1-ND	2.5V, 32K-Bit Serial EEPROM ***NEW!***	8-SOIC	.93	.75	.56
M24C32-WMN6TP	497-5027-2-ND	2.5V, 32K-Bit Serial EEPROM ***NEW!***	8-SOIC	737.50/2,500		
M34C02-LDW6T	497-1722-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	1.80	1.44	1.08
M34C02-LDW6T	497-1722-2-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	2280.00/4,000		
M34C02-WDW6T	497-1723-1-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	1.13	.98	.75
M34C02-WDW6T	497-1723-2-ND	5.5V, 2K-Bit Serial EEPROM	8-TSSOP	1596.00/4,000		
M93C46-MN6T	497-1927-1-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	1.20	1.04	.80
M93C46-MN6T	497-1927-2-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	1065.00/2,500		
M93C46-WMN6T	497-1929-1-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	1.13	.98	.75
M93C46-WMN6T	497-1929-2-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	997.50/2,500		
M93C56-MN6T	497-1930-1-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	.66	.53	.40
M93C56-MN6T	497-1930-2-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	495.00/2,500		
M93C56-WMN6T	497-1931-1-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	1.31	1.14	.88
M93C56-WMN6T	497-1931-2-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	1165.00/2,500		
M93C66-MN6	497-1932-5-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	.70	.56	.42
M93C66-MN6T	497-1933-1-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	1.58	1.37	1.05
M93C66-MN6T	497-1933-2-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	1397.50/2,500		
M93C66-WMN6	497-1934-5-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	1.58	1.37	1.05
M93C66-WMN6T	497-1935-1-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	1.58	1.37	1.05
M93C66-WMN6T	497-1935-2-ND	5.5V, 4K-Bit Microwire Serial Access EEPROM	8-SOIC	1397.50/2,500		
M93C86-MN6T	497-1936-1-ND	5.5V, 16K-Bit Microwire Serial Access EEPROM	8-SOIC	1.03	.83	.62
M93C86-MN6T	497-1936-2-ND	5.5V, 16K-Bit Microwire Serial Access EEPROM	8-SOIC	812.25/2,500		
M93C86-WMN6P	497-4927-5-ND	5.5V, 16K-Bit Microwire Serial Access EEPROM ***NEW!***	8-SOIC	1.03	.83	.62
M93S46-MN6T	497-1938-1-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	.78	.63	.47
M93S46-WMN6	497-1939-5-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	1.24	1.08	.83
M93S46-WMN6T	497-1940-1-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	1.31	1.14	.88

(Continued)

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STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M93S46-WMN6T	497-1940-2-ND	5.5V, 1K-Bit Microwire Serial Access EEPROM	8-SOIC	1165.00/2,500		
M93S56-MN6	497-1941-5-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	.89	.71	.54
M93S56-WMN6	497-1942-5-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	1.76	1.53	1.18
M93S56-WMN6T	497-1943-1-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	1.84	1.60	1.23
M93S56-WMN6T	497-1943-2-ND	5.5V, 2K-Bit Microwire Serial Access EEPROM	8-SOIC	1630.00/2,500		
M95040-WMN6T	497-1945-1-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM	8-SOIC	1.50	1.30	1.00
M95040-WMN6T	497-1945-2-ND	5.5V, 4K-Bit Serial SPI Bus EEPROM	8-SOIC	1330.00/2,500		
M95080-WMN6T	497-1946-1-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM	8-SOIC	1.69	1.47	1.13
M95080-WMN6T	497-1946-2-ND	5.5V, 8K-Bit Serial SPI Bus EEPROM	8-SOIC	1497.50/2,500		
M95640-WMN6T	497-1947-1-ND	5.5V, 64K-Bit Serial SPI Bus EEPROM	8-SOIC	2.97	2.59	1.93
M95640-WMN6T	497-1947-2-ND	5.5V, 64K-Bit Serial SPI Bus EEPROM	8-SOIC	3520.00/2,500		
		Flash				
M25P05-AVMN6T	497-1621-1-ND	3.6V, 512K-Bit Serial Flash	8-SOIC	1.86	1.61	1.24
M25P05-AVMN6T	497-1621-2-ND	3.6V, 512K-Bit Serial Flash	8-SOIC	1645.88/2,500		
M25P10-AVMN6P	497-3591-ND	3.6V, 1M-Bit Serial Flash	8-SOIC	1.79	1.50	1.26
M25P10-AVMP6T	497-3592-1-ND	3.6V, 1M-Bit Serial Flash	8-VDFPN	2.48	2.07	1.74
M25P10-AVMP6T	497-3592-2-ND	3.6V, 1M-Bit Serial Flash	8-VDFPN	4305.60/4,000		
M25P16-VMF6P	497-3593-ND	3.6V, 16M-Bit Serial Flash	16-SOIC	4.56	3.97	2.96
M25P20-VMN6TP	497-3594-1-ND	3.6V, 2M-Bit Serial Flash	8-SOIC	2.07	1.73	1.45
M25P20-VMN6TP	497-3594-2-ND	3.6V, 2M-Bit Serial Flash	8-SOIC	2330.00/2,500		
M25P20-VMN6T	497-1623-1-ND	3.6V, 2M-Bit Serial Flash	8-SOIC	2.07	1.73	1.45
M25P20-VMN6T	497-1623-2-ND	3.6V, 2M-Bit Serial Flash	8-SOIC	2242.50/2,500		
M25P20-VMP6	497-3595-ND	3.6V, 2M-Bit Serial Flash	8-VDFPN	4.05	3.53	2.63
M25P32-VMF6G	497-3596-ND	3.6V, 32M-Bit Serial Flash	16-SOIC	6.40	5.85	4.63
M25P40-VMN6P	497-3598-ND	3.6V, 4M-Bit Serial Flash	8-SOIC	2.84	2.37	2.00
M25P40-VMN6TP	497-4544-1-ND	3.6V, 4M-Bit Serial Flash	8-SOIC	2.84	2.37	2.00
M25P40-VMN6TP	497-4544-2-ND	3.6V, 4M-Bit Serial Flash	8-SOIC	3080.00/2,500		
M28W320CB90N6	497-1694-ND	32M-Bit (2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M28W320CT90N6	497-1695-ND	32M-Bit (2Mb x 16), Top Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M28W320ECB70ZB6T	497-1696-1-ND	32M-Bit (2Mb x 16), Bottom Boot, 3V Flash Memory	47-TFBGA	14.00	12.95	9.80
M28W320ECB70ZB6T	497-1696-2-ND	32M-Bit (2Mb x 16), Bottom Boot, 3V Flash Memory	47-TFBGA	14175.00/2,500		
M28W320ECT70ZB6T	497-1697-1-ND	32M-Bit (2Mb x 16), Top Boot, 3V Flash Memory	47-TFBGA	14.00	12.95	9.80
M28W320ECT70ZB6T	497-1697-2-ND	32M-Bit (2Mb x 16), Top Boot, 3V Flash Memory	47-TFBGA	14175.00/2,500		
M29DW323DB70N6	497-1699-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	9.09	8.30	6.56
M29F010B70K6T	497-1700-1-ND	1M-Bit (128Kb x 8), 70nS, Single Flash Memory	32-PLCC	2.70	2.35	1.75
M29F010B70K6T	497-1700-2-ND	1M-Bit (128Kb x 8), 70nS, Single Flash Memory	32-PLCC	1050.00/750		
M29F016D70N6	497-1701-ND	16M-Bit (2Mb x 8), 70nS, 5V Flash Memory	40-TSOP	5.75	5.25	4.15
M29F032D70N6T	497-1702-1-ND	32M-bit (4Mb x 8), 70nS, 5V Flash Memory	40-TSOP	16.00	14.80	11.20
M29F032D70N6T	497-1702-2-ND	32M-Bit (4Mb x 8), 70nS, 5V Flash Memory	40-TSOP	8607.00/1,500		
M29F040B70K6T	497-1704-1-ND	4M-Bit (512Kb x 8), 70nS, Single Flash Memory	32-PLCC	3.38	2.94	2.19
M29F040B70K6T	497-1704-2-ND	4M-Bit (512Kb x 8), 70nS, Single Flash Memory	32-PLCC	1312.50/750		
M29F040B90N6	497-1706-ND	4M-Bit (512Kb x 8), 90nS, Single Flash Memory	32-TSOP	3.38	2.94	2.19
M29F200BB70N6T	497-1707-1-ND	2M-Bit (256Kb x 8 or 128Kb x 16), 70nS, Single Flash Memory	48-TSOP	7.36	6.72	5.32
M29F200BB70N6T	497-1707-2-ND	2M-Bit (256Kb x 8 or 128Kb x 16), 70nS, Single Flash Memory	48-TSOP	2295.00/1,500		
M29F400BB70N6T	497-1708-1-ND	4M-Bit (512Kb x 8 or 256Kb x 16), 70nS, Single Flash Memory	48-TSOP	9.20	8.40	6.64
M29F400BB70N6T	497-1708-2-ND	4M-Bit (512Kb x 8 or 256Kb x 16), 70nS, Single Flash Memory	48-TSOP	2494.50/1,500		
M29F400BT70N6	497-1709-ND	4M-Bit (512Kb x 8 or 256Kb x 16), 70nS, Single Flash Memory	48-TSOP	9.20	8.40	6.64
M29F800DB70N6	497-1710-ND	8M-Bit (1Mb x 8 or 512Kb x 16), 70nS, 5V Flash Memory	48-TSOP	5.00	4.35	3.24
M29W040B90K6	497-1711-5-ND	4M-Bit (512Kb x 8), 90nS, Low Voltage, Single Flash Memory	32-PLCC	3.92	3.41	2.54
M29W128FH70N6E	497-5028-ND	128M-Bit (8Mb x 16 or 16Mb x 8) 3V Flash Memory ***NEW!***	56-TSOP	12.50	11.57	8.75
M29W128FT70N6E	497-5029-ND	128M-Bit (8Mb x 16 or 16Mb x 8) 3V Flash Memory ***NEW!***	56-TSOP	12.00	11.10	8.40
M29W160EB70N6E	497-3602-ND	16M-Bit (2Mb x 8 or 1Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	5.40	4.70	3.50
M29W160EB90N6	497-1712-ND	16M-Bit (2Mb x 8 or 1Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	5.40	4.70	3.50
M29W160ET90ZA6T	497-1713-1-ND	16M-Bit (2Mb x 8 or 1Mb x 16), Top Boot, 3V Flash Memory	48-TFBGA	10.00	9.25	7.00
M29W160ET90ZA6T	497-1713-2-ND	16M-Bit (2Mb x 8 or 1Mb x 16), Top Boot, 3V Flash Memory	48-TFBGA	6400.00/2,500		
M29W320DB70N6	497-1714-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M29W320DB70N6E	497-3604-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M29W320DB70ZA6	497-3605-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	63-TFBGA	7.36	6.72	5.32
M29W320EB70N6E	497-3606-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M29W320EB70ZE6E	497-3607-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Bottom Boot, 3V Flash Memory	63-TFBGA	7.36	6.72	5.32
M29W320ET70N6E	497-3608-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Top Boot, 3V Flash Memory	48-TSOP	7.36	6.72	5.32
M29W320ET70ZE6E	497-3609-ND	32M-Bit (4Mb x 8 or 2Mb x 16), Top Boot, 3V Flash Memory	63-TFBGA	7.36	6.72	5.32
M29W400BB90N6	497-1715-ND	4M-Bit (512Kb x 8 or 256Kb x 16), Bottom Boot Low Voltage Single Flash Memory	48-TSOP	3.38	2.94	2.19
M29W400BT70N6	497-1716-ND	4M-Bit (512Kb x 8 or 256Kb x 16), Top Boot Low Voltage Single Flash Memory	48-TSOP	3.38	2.94	2.19
M29W640FB70N6E	497-5031-ND	64M-Bit (8Mb x 8 or 4Mb x 16) 3V Flash Memory ***NEW!***	48-TSOP	9.20	8.40	6.64
M29W640FB70ZA6E	497-5032-ND	64M-Bit (8Mb x 8 or 4Mb x 16) 3V Flash Memory ***NEW!***	48-TFBGA	9.43	8.61	6.81
M29W640FT70N6E	497-5033-ND	64M-Bit (8Mb x 8 or 4Mb x 16) 3V Flash Memory ***NEW!***	48-TSOP	9.20	8.40	6.64
M29W640FT70ZA6E	497-5034-ND	64M-Bit (8Mb x 8 or 4Mb x 16) 3V Flash Memory ***NEW!***	48-TFBGA	9.43	8.61	6.81
M29W800DB70N6E	497-5035-ND	8M-Bit (1Mb x 8 or 512Kb x 16), Bottom Boot, 3V Flash Memory ***NEW!***	48-TSOP	4.19	3.65	2.72
M29W800DB70N6T	497-3703-1-ND	8M-Bit (1Mb x 8 or 512Kb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	4.19	3.65	2.72
M29W800DB70N6T	497-3703-2-ND	8M-Bit (1Mb x 8 or 512Kb x 16), Bottom Boot, 3V Flash Memory	48-TSOP	3093.00/1,500		
M29W800DB70ZE6	497-3610-ND	8M-Bit (1Mb x 8 or 512Kb x 16), Bottom Boot, 3V Flash Memory	48-TFBGA	8.37	7.29	5.43
M30LW128D110N6	497-1719-ND	128M-Bit (Two 64Mb, x8/x16), 110nS, 3V Multiple Memory	56-TSOP	28.00	24.00	21.28
M58LW032D110N6	497-1725-ND	32M-Bit (4Mb x 8 or 2Mb x 16), 110nS, 3V Flash Memory	56-TSOP	8.74	7.98	6.31
M58LW032D110ZA6	497-1726-ND	32M-Bit (4Mb x 8 or 2Mb x 16), 110nS, 3V Flash Memory	64-TBGA	8.74	7.98	6.31
M58LW064D110N6	497-1727-ND	64M-Bit (8Mb x 8 or 4Mb x 16), 110nS, 3V Flash Memory	56-TSOP	15.00	13.88	10.50
NAND01GW3B2AN6E	497-4617-ND	1G-Bit, 2.7V-3.6V, NAND Flash Memory	48-TSOP	29.75	25.50	22.61
NAND01GW3B2AZA6E	497-5036-ND	1G-Bit, 2.7V-3.6V, NAND Flash Memory ***NEW!***	63-VFBGA	17.00	15.73	11.90
NAND128W3A2BN6E	497-5037-ND	128M-Bit, 2.7V-3.6V, NAND Flash Memory ***NEW!***	48-TSOP	9.20	8.40	6.64
NAND256W3A2BZA6E	497-5039-ND	256M-Bit, 2.7V-3.6V, NAND Flash Memory ***NEW!***	55-VFBGA	11.00	10.18	7.70
NAND512W3A2BN6E	497-5040-ND	512M-Bit, 2.7V-3.6V, NAND Flash Memory ***NEW!***	48-TSOP	12.00	11.10	8.40
NAND512W3A2BZA6E	497-5041-ND	512M-Bit, 2.7V-3.6V, NAND Flash Memory ***NEW!***	63-VFBGA	13.00	12.03	9.10
PSD813F1A-12JI	497-1973-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLDCC	13.58	12.57	9.51
PSD813F1A-12UI	497-1974-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	14.62	13.53	10.24
PSD813F1A-90J	497-1975-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLDCC	12.46	11.53	8.73
PSD813F1A-90JI	497-1976-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLDCC	13.58	12.57	9.51
PSD813F1A-90M	497-1977-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	12.46	11.53	8.73
PSD813F1A-90MI	497-1978-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	13.58	12.57	9.51
PSD813F1A-90U	497-1979-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	13.50	12.49	9.45
PSD813F1A-90UI	497-1980-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	14.62	13.53	10.24
PSD813F1VA-15J	497-1981-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	13.20	12.21	9.24
PSD813F1VA-15M	497-1982-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	13.20	12.21	9.24
PSD813F1VA-15U	497-1983-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	14.24	13.18	9.97
PSD813F1VA-20JI	497-1984-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	14.38	13.31	10.07
PSD813F1VA-20UI	497-1985-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	15.44	14.29	10.81
PSD813F2A-70J	497-1986-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	11.98	11.09	8.39
PSD813F2A-70M	497-1987-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	11.98	11.09	8.39
PSD813F2A-90J	497-1988-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	11.40	10.55	7.98
PSD813F2A-90JI	497-1989-5-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	12.44	11.51	8.71
PSD813F2A-90M	497-1990-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	11.40	10.55	7.98
PSD813F2A-90MI	497-1991-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	12.44	11.51	8.71
PSD813F2A-90U	497-1992-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	12.46	11.53	8.73
PSD813F2A-90UI	497-1993-ND	5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	13.48	12.47	9.44
PSD813F2VA-15J	497-1994-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	12.08	11.18	8.46
PSD813F2VA-15M	497-1995-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	12.08	11.18	8.46
PSD813F2VA-15U	497-1996-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	13.14	12.16	9.20
PSD813F2VA-20JI	497-1997-5-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	13.18	12.20	9.23
PSD813F2VA-20MI	497-1998-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	13.18	12.20	9.23
PSD813F2VA-20UI	497-1999-ND	3V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	80-TQFP	14.22	13.16	9.96
PSD833F2-90J	497-2000-5-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	12.76	11.81	8.94
PSD833F2-90JI	497-2001-5-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	13.90	12.86	9.73

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STMicroelectronics

MEMORY *(Continued)*
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
PSD833F2-90M	497-2002-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	12.76	11.81	8.94
PSD833F2-90MI	497-2003-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	13.90	12.86	9.73
PSD834F2-70J	497-2004-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	15.76	14.58	11.04
PSD834F2-70M	497-2005-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	15.76	14.58	11.04
PSD834F2-90J	497-2006-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	15.02	13.90	10.52
PSD834F2-90JI	497-2007-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	16.36	15.14	11.46
PSD834F2-90M	497-2008-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	15.02	13.90	10.52
PSD834F2-90MI	497-2009-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	16.36	15.14	11.46
PSD834F2V-15J	497-2010-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	15.92	14.73	11.15
PSD834F2V-15M	497-2011-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	15.92	14.73	11.15
PSD834F2V-20JI	497-2012-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	17.34	16.04	12.14
PSD834F2V-20MI	497-2013-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	17.34	16.04	12.14
PSD835G2-70U	497-2014-ND	5V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	19.16	17.73	13.42
PSD835G2-90U	497-2015-ND	5V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	18.24	16.88	12.77
PSD835G2-90UI	497-2016-ND	5V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	19.88	18.39	13.92
PSD835G2V-12UI	497-2017-ND	3V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	19.01	16.29	14.45
PSD835G2V-90U	497-2018-ND	3V, 4M-Bit Config. Memory System on a Chip for 8-Bit MCU's	80-TQFP	17.76	15.23	13.50
PSD853F2-70J	497-2019-5-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.02	16.67	12.62
PSD853F2-70M	497-2020-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	17.12	15.84	11.99
PSD853F2-90J	497-2021-5-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	17.16	15.88	12.02
PSD853F2-90JI	497-2022-5-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.70	17.30	13.09
PSD853F2-90M	497-2023-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	17.16	15.88	12.02
PSD853F2-90MI	497-2024-ND	5.5V, 1M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	18.70	17.30	13.09
PSD854F2-70J	497-2025-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.74	17.34	13.12
PSD854F2-70M	497-2026-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	18.74	17.34	13.12
PSD854F2-90J	497-2027-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	17.86	16.53	12.51
PSD854F2-90JI	497-2028-5-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	19.46	18.01	13.63
PSD854F2-90M	497-2029-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	17.86	16.53	12.51
PSD854F2-90MI	497-2030-ND	5.5V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	19.46	18.01	13.63
PSD854F2V-12JI	497-2031-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.04	15.47	13.72
PSD854F2V-12MI	497-2032-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	18.04	15.47	13.72
PSD854F2V-90J	497-2033-5-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PLCC	18.92	17.51	13.25
PSD854F2V-90M	497-2034-ND	3.6V, 2M-Bit Flash ISP Peripheral for 8-Bit MCU's	52-PQFP	18.92	17.51	13.25
PSD4235G2-70U	497-1967-ND	5.5V, 4M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	18.03	15.45	13.70
PSD4235G2-90U	497-1968-ND	5.5V, 4M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	19.62	18.15	13.74
PSD4235G2-90UI	497-1969-ND	5.5V, 4M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	18.73	16.05	14.24
PSD4235G2V-12UI	497-1970-ND	3.6V, 4M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	19.85	17.01	15.09
PSD4235G2V-90U	497-1971-ND	3.6V, 4M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	18.20	15.60	13.84
PSD4256G6V-10UI	497-1972-ND	3.6V, 8M-Bit Flash ISP Peripheral for 16-Bit MCU's	80-TQFP	24.64	21.12	18.73

SRAM

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M4T28-BR12SH1	497-3686-5-ND	SNAPHAT for use with 28 and 44-Pin SOIC	—	5.24	4.56	3.40
M4T32-BR12SH1	497-3687-5-ND	SNAPHAT for use with 28 and 44-Pin SOIC	—	6.37	5.82	4.60
M4T32-BR12SH6	497-3688-5-ND	SNAPHAT for use with 28 and 44-Pin SOIC	—	7.36	6.72	5.32
M4Z28-BR00SH1	497-3689-5-ND	ZEROPOWER® SNAPHAT Battery for 28-Pin SOIC	—	4.59	4.00	2.98
M4Z32-BR00SH1	497-3690-5-ND	ZEROPOWER® SNAPHAT Battery for 28-Pin SOIC	—	7.13	6.51	5.15
M41T11M6E	497-2813-5-ND	2V-5.5V, 512-Bit Serial RTC	8-SOIC	3.56	3.11	2.31
M41T11M6F	497-4699-1-ND	2V-5.5V, 512-Bit Serial RTC	8-SOIC	3.56	3.11	2.31
M41T11M6F	497-4699-2-ND	2V-5.5V, 512-Bit Serial RTC	8-SOIC	4225.00/2,500		
M41T11MH6	497-2814-5-ND	2V-5.5V, 512-Bit Serial RTC	28-SOIC	6.08	5.29	3.94
M41T11MH6F	497-4700-1-ND	2V-5.5V, 512-Bit Serial RTC	28-SOIC	6.08	5.29	3.94
M41T11MH6F	497-4700-2-ND	2V-5.5V, 512-Bit Serial RTC	28-SOIC	2948.40/936		
M41T56M6E	497-2818-5-ND	5V, 512-Bit Serial TIMEKEEPER® SRAM	8-SOIC	2.70	2.35	1.75
M41T56M6F	497-4706-1-ND	5V, 512-Bit Serial RTC	8-SOIC	2.70	2.35	1.75
M41T56M6F	497-4706-2-ND	5V, 512-Bit Serial RTC	8-SOIC	3200.00/2,500		
M41T56MH6	497-2819-5-ND	5V, 512-Bit Serial TIMEKEEPER® SRAM	28-SOIC	5.24	4.57	3.40
M41T56MH6F	497-4707-1-ND	5V, 512-Bit Serial RTC	28-SOIC	5.24	4.57	3.40
M41T56MH6F	497-4707-2-ND	5V, 512-Bit Serial RTC	28-SOIC	2544.98/936		
M41T81SM6F	497-4684-1-ND	2.7V-5.5V, Serial RTC with Alarm	8-SOIC	2.91	2.43	2.04
M41T81SM6F	497-4684-2-ND	2.7V-5.5V, Serial RTC with Alarm	8-SOIC	3152.50/2,500		
M41T94MH6	497-2823-5-ND	2.7V-5.5V, 512-Bit Serial RTC SRAM	28-SOIC	5.80	5.30	4.19
M41T94MQ6E	497-3684-ND	2.7V-5.5V, 512-Bit Serial RTC SRAM	16-SOIC	4.13	3.60	2.68
M68AF511AL55NC6T	497-1734-1-ND	4M-Bit (512Kx8), 5V Async. SRAM	32-TSOP	10.21	9.33	7.38
M68AF511AL55NC6T	497-1734-2-ND	4M-Bit (512Kx8), 5V Async. SRAM	32-TSOP	5661.00/1,000		
M68AW031AM70N6T	497-1737-1-ND	256K-Bit (32Kx8), 3V Async. SRAM	28-TSOP	2.01	1.68	1.41
M68AW031AM70N6T	497-1737-2-ND	256K-Bit (32Kx8), 3V Async. SRAM	28-TSOP	904.50/1,000		
M68AW128ML70ZB6	497-1739-ND	2M-Bit (128Kx16), 3V Async. SRAM	48-TFBGA	3.24	2.82	2.10
M68AW512ML70ND6	497-1744-ND	8M-Bit (512Kx16), 3V Async. SRAM	44-TSOP	8.32	7.60	6.01

NEW! Memory Cards NEW!

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
SMC064AFF6E	497-5042-ND	64Mb Secure Digital Card	—	27.13	23.25	20.62
SMC128AFB6E	497-5043-ND	128Mb Secure Digital Card	—	36.75	31.50	27.93
SMC256AFB6E	497-5044-ND	256Mb Secure Digital Card	—	35.00	30.00	26.60
SMC512AFB6E	497-5045-ND	512Mb Secure Digital Card	—	89.25	76.50	67.83

STMicroelectronics

NVRAM
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
M40SZ100WMQ6E	497-2798-5-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	5.29	4.83	3.82
M40SZ100WMQ6F	497-4688-1-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	6.21	5.41	4.03
M40SZ100WMQ6F	497-4688-2-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	7360.00/2,500		
M40Z111MH6	497-2799-5-ND	5V, NVRAM Supervisor for LPSRAM	28-SOIC	8.93	8.16	6.45
M40Z111MH6F	497-4689-1-ND	5V, NVRAM Supervisor for LPSRAM	28-SOIC	8.93	8.16	6.45
M40Z111MH6F	497-4689-2-ND	5V, NVRAM Supervisor for LPSRAM	28-SOIC	4724.93/936		
M40Z300WMH6	497-2800-5-ND	3V, NVRAM Supervisor for LPSRAM	28-SOIC	9.71	8.98	6.80
M40Z300WMH6F	497-4691-1-ND	3V, NVRAM Supervisor for LPSRAM	28-SOIC	11.16	10.20	8.06
M40Z300WMH6F	497-4691-2-ND	3V, NVRAM Supervisor for LPSRAM	28-SOIC	5905.22/936		
M40Z300WMQ6E	497-2801-5-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	7.73	7.06	5.58
M40Z300WMQ6F	497-4692-1-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	7.73	7.06	5.58
M40Z300WMQ6F	497-4692-2-ND	3V, NVRAM Supervisor for LPSRAM	16-SOIC	10585.00/2,500		
M41ST84WMQ6E	497-2802-5-ND	3V, NVRAM 512-Bit Serial RTC	16-SOIC	4.59	4.00	2.98
M41ST84WMQ6F	497-4693-1-ND	3V, NVRAM 512-Bit Serial RTC	16-SOIC	4.59	4.00	2.98
M41ST84WMQ6F	497-4693-2-ND	3V, NVRAM 512-Bit Serial RTC	16-SOIC	5440.00/2,500		
M41ST84YMQ6E	497-2803-5-ND	5V, NVRAM 512-Bit Serial RTC	16-SOIC	4.19	3.65	2.72
M41ST85WMH6	497-2804-5-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	7.82	7.14	5.65
M41ST85WMH6F	497-4695-1-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	7.82	7.14	5.65
M41ST85WMH6F	497-4695-2-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	4137.12/936		
M41ST85WMX6	497-2805-5-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	6.44	5.88	4.65
M41ST85YMX6	497-2807-5-ND	5V, NVRAM 512-Bit Serial RTC	28-SOIC	6.44	5.88	4.65
M41ST87YMX6	497-2808-5-ND	5V, NVRAM 1280-Bit Serial RTC	28-SOIC	7.82	7.14	5.65
M41ST95WMX6	497-2809-5-ND	3V, NVRAM 512-Bit Serial RTC	28-SOIC	6.90	6.30	4.98
M41T00M6F	497-4697-1-ND	Serial Access RTC	8-SOIC	2.70	2.25	1.89
M41T00M6F	497-4697-2-ND	Serial Access RTC	8-SOIC	2925.00/2,500		
M41T00M606E	497-2810-5-ND	Serial Access RTC	8-SOIC	2.70	2.25	1.89
M41T0DS6E	497-2811-5-ND	2V-5.5V, Serial RTC	8-TSSOP	2.70	2.25	1.89
M41T0M6E	497-2812-5-ND	2V-5.5V, Serial RTC	8-SOIC	2.22	1.85	1.56
M41T0M6F	497-4698-1-ND	2V-5.5V, Serial RTC	8-SOIC	2.22	1.85	1.56
M41T0M6F	497-4698-2-ND	2V-5.5V, Serial RTC	8-SOIC	2405.00/2,500		
M41T60Q6F	497-3906-1-ND	1.3V-3.6V, Serial RTC	16-QFN	1.77	1.48	1.24
M41T60Q6F	497-3906-2-ND	1.3V-3.6V, Serial RTC	16-QFN	2301.00/3,000		
M41T62Q6F	497-3907-1-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2.05	1.71	1.44
M41T62Q6F	497-3907-2-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2661.00/3,000		
M41T65Q6F	497-3908-1-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2.05	1.71	1.44
M41T65Q6F	497-3908-2-ND	1.3V-3.6V, Serial RTC with Alarm	16-QFN	2661.00/3,000		
M41T80M6E	497-2820-5-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	2.25	1.88	1.58
M41T80M6F	497-4708-1-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	2.25	1.88	1.58
M41T80M6F	497-4708-2-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	2437.50/2,500		
M41T81M6E	497-2821-5-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	2.97	2.48	2.08
M41T81M6F	497-4709-1-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	2.97	2.48	2.08
M41T81M6F	497-4709-2-ND	2V-5.5V, Serial RTC with Alarm	8-SOIC	3217.50/2,500		
M41T256YMH7	497-2815-5-ND	5V, 256K-Bit Serial RTC	44-SOIC	11.04	10.08	7.97
M41T256YMH7F	497-4701-1-ND	5V, 256K-Bit Serial RTC	44-SOIC	11.04	10.08	7.97
M41T256YMH7F	497-4701-2-ND	5V, 256K-Bit Serial RTC	44-SOIC	5840.64/936		
M41T256YMT7F	497-4702-1-ND	5V, 256K-Bit Serial RTC	44-SOIC	10.35	9.45	7.47
M41T256YMT7F	497-4702-2-ND	5V, 256K-Bit Serial RTC	44-SOIC	5475.60/936		
M41T315V-85MH6	497-2817-5-ND	3.3V, 85nS Phantom RTC Supervisor	28-SOIC	13.86	12.83	9.71
M41T315V-85MH6F	497-4703-1-ND	3.3V, 85nS Phantom RTC Supervisor	28-SOIC	10.68	9.88	7.48
M41T315V-85MH6F	497-4703-2-ND	3.3V, 85nS Phantom RTC Supervisor	28-SOIC	6345.14/936		
M48T02-70PC1	497-2827-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	15.86	14.67	11.11
M48T02-150PC1	497-2825-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	16.00	14.80	11.20
M48T02-200PC1	497-2826-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	16.00	14.80	11.20
M48T08-100PC1	497-2828-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T08-150PC1	497-2829-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T08Y-10MH1	497-2830-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	13.86	12.83	9.71
M48T08Y-10MH1F	497-4710-1-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	13.86	12.83	9.71
M48T08Y-10MH1F	497-4710-2-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	8237.74/936		
M48T12-70PC1	497-2833-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	16.00	14.80	11.20
M48T12-150PC1	497-2831-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	16.00	14.80	11.20
M48T12-200PC1	497-2832-5-ND	5V, 16K-Bit TIMEKEEPER® NVRAM	24-Dip	16.00	14.80	11.20
M48T18-100PC1	497-2837-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T18-150PC1	497-2838-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T35-70PC1	497-2845-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T35AV-10MH1	497-2846-5-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	14.46	13.38	10.13
M48T35AV-10MH1F	497-4714-1-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	14.46	13.38	10.13
M48T35AV-10MH1F	497-4714-2-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	8595.29/936		
M48T35AV-10MH6	497-2847-5-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	17.36	16.06	12.15
M48T35AV-10MH6F	497-4715-1-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	17.36	16.06	12.15
M48T35AV-10MH6F	497-4715-2-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	10315.66/936		
M48T35AV-10PC1	497-2848-5-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	28-Dip	17.30	16.01	12.11
M48T35Y-70MH1	497-2849-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	14.46	13.38	10.13
M48T35Y-70MH1F	497-4716-1-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	14.46	13.38	10.13
M48T35Y-70MH1F	497-4716-2-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	8595.29/936		
M48T35Y-70MH6	497-2850-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	17.36	16.06	12.15
M48T35Y-70MH6F	497-4717-1-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	17.36	16.06	12.15

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

STMicroelectronics NVRAM *(Continued)*

RoHS Complaint Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
M48T35Y-70MH6F	497-4717-2-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-SOIC	10315.66/936		
M48T35Y-70PC1	497-2851-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T37V-10MH1	497-2852-5-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	15.44	14.28	10.81
M48T37V-10MH1F	497-4718-1-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	15.44	14.28	10.81
M48T37V-10MH1F	497-4718-2-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	9174.67/936		
M48T37V-10MH6	497-2853-5-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	18.35	16.98	12.85
M48T37V-10MH6F	497-4719-1-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	18.35	16.98	12.85
M48T37V-10MH6F	497-4719-2-ND	3.3V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	10905.34/936		
M48T37Y-70MH1	497-2854-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	15.44	14.28	10.81
M48T37Y-70MH1F	497-4720-1-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	15.44	14.28	10.81
M48T37Y-70MH1F	497-4720-2-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	9174.67/936		
M48T37Y-70MH6	497-2855-5-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	18.35	16.98	12.85
M48T37Y-70MH6F	497-4721-1-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	18.35	16.98	12.85
M48T37Y-70MH6F	497-4721-2-ND	5V, 256K-Bit TIMEKEEPER® NVRAM	44-SOIC	10905.34/936		
M48T58-70PC1	497-2857-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	18.00	16.65	12.60
M48T58Y-70MH1	497-2858-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	10.20	9.44	7.14
M48T58Y-70MH1F	497-4722-1-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	11.39	10.40	8.22
M48T58Y-70MH1F	497-4722-2-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	6024.10/936		
M48T58Y-70PC1	497-2859-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	18.00	16.65	12.60
M48T59Y-70MH1	497-2860-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	11.55	10.69	8.09
M48T59Y-70MH1F	497-4723-1-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	11.55	10.69	8.09
M48T59Y-70MH1F	497-4723-2-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	6866.50/936		
M48T59Y-70MH6	497-2861-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-SOIC	14.28	13.21	10.00
M48T59Y-70PC1	497-2862-5-ND	5V, 64K-Bit TIMEKEEPER® NVRAM	28-Dip	17.50	15.00	13.30
M48T86MH1	497-2863-5-ND	5V PC Real-Time Clock	28-SOIC	5.40	4.70	3.50
M48T86MH1F	497-4725-1-ND	5V PC Real-Time Clock	28-SOIC	5.40	4.70	3.50
M48T86MH1F	497-4725-2-ND	5V PC Real-Time Clock	28-SOIC	2620.80/936		
M48T86PC1	497-2864-5-ND	5V PC Real-Time Clock	24-Dip	7.57	6.91	5.47
M48T128Y-70PM1	497-2834-5-ND	5V, 1M-Bit TIMEKEEPER® NVRAM	32-Dip	31.50	27.00	23.94
M48T129V-85PM1	497-2835-5-ND	3.3V, 1M-Bit TIMEKEEPER® NVRAM	32-Dip	35.00	30.00	26.60
M48T129Y-70PM1	497-2836-5-ND	5V, 1M-Bit TIMEKEEPER® NVRAM	32-Dip	31.50	27.00	23.94
M48T201V-85MH1	497-2839-5-ND	3.3V, NVRAM Supervisor	44-SOIC	11.65	10.78	8.16
M48T201V-85MH1F	497-4711-1-ND	3.3V, NVRAM Supervisor	44-SOIC	11.65	10.78	8.16
M48T201V-85MH1F	497-4711-2-ND	3.3V, NVRAM Supervisor	44-SOIC	6924.53/936		
M48T201Y-70MH1	497-2840-5-ND	5V, NVRAM Supervisor	44-SOIC	11.65	10.78	8.16
M48T201Y-70MH1F	497-4712-1-ND	5V, NVRAM Supervisor	44-SOIC	11.65	10.78	8.16
M48T201Y-70MH1F	497-4712-2-ND	5V, NVRAM Supervisor	44-SOIC	6924.53/936		
M48T212V-85MH1	497-2841-5-ND	3.3V, NVRAM Supervisor	44-SOIC	9.94	9.08	7.18
M48T212V-85MH1F	497-4713-1-ND	3.3V, NVRAM Supervisor	44-SOIC	9.94	9.08	7.18
M48T212V-85MH1F	497-4713-2-ND	3.3V, NVRAM Supervisor	44-SOIC	5256.58/936		
M48T512Y-70PM1	497-2856-5-ND	5V, 4M-Bit TIMEKEEPER® NVRAM	32-Dip	70.00	60.00	53.20
M48Z02-70PC1	497-2868-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	10.35	9.45	7.47
M48Z02-150PC1	497-2865-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	10.35	9.45	7.47
M48Z02-200PC1	497-2867-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	10.35	9.45	7.47
M48Z08-100PC1	497-2869-5-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	14.08	13.03	9.86
M48Z12-70PC1	497-2872-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	10.00	9.25	7.00
M48Z12-150PC1	497-2870-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	11.06	10.11	7.99
M48Z12-200PC1	497-2871-5-ND	5V, 16K-Bit ZEROPOWER® NVRAM	24-Dip	10.49	9.58	7.57
M48Z18-100PC1	497-2877-5-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	14.08	13.03	9.86
M48Z32V-35MT1	497-2878-5-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	44-SOIC	10.05	9.18	7.26
M48Z32V-35MT1F	497-4726-1-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	44-SOIC	10.05	9.18	7.26
M48Z32V-35MT1F	497-4726-2-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	44-SOIC	5314.61/936		
M48Z35-70PC1	497-2879-5-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-Dip	17.38	16.08	12.17
M48Z35AV-10MH1	497-2880-5-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	11.55	10.69	8.09
M48Z35AV-10MH6F	497-4727-1-ND	3V-3.6V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	14.28	13.21	10.00
M48Z35AV-10MH6F	497-4727-2-ND	3V-3.6V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	8487.65/936		
M48Z35AV-10PC1	497-2882-5-ND	3.3V, 256K-Bit ZEROPOWER® NVRAM	28-Dip	12.80	11.84	8.96
M48Z35Y-70MH1	497-2883-5-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	11.75	10.87	8.23
M48Z35Y-70MH1F	497-4728-1-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	11.75	10.87	8.23
M48Z35Y-70MH1F	497-4728-2-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-SOIC	6981.62/936		
M48Z35Y-70PC1	497-2885-5-ND	5V, 256K-Bit ZEROPOWER® NVRAM	28-Dip	17.38	16.08	12.17
M48Z58-70PC1	497-2888-5-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	11.56	10.70	8.10
M48Z58Y-70MH1F	497-4730-1-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-SOIC	9.09	8.30	6.56
M48Z58Y-70MH1F	497-4730-2-ND	5V, 64K-Bit ZEROPOWER® NVRAM	28-SOIC	4806.36/936		
M48Z58Y-70PC1	497-3685-5-ND	5.5V, 64K-Bit ZEROPOWER® NVRAM	28-Dip	11.56	10.70	8.10
M48Z128-70PM1	497-2873-5-ND	5V, 1M-Bit ZEROPOWER® NVRAM	32-Dip	22.75	19.50	17.29
M48Z128Y-70PM1	497-2874-5-ND	5V, 1M-Bit ZEROPOWER® NVRAM	32-Dip	22.75	19.50	17.29
M48Z128Y-85PM1	497-2875-5-ND	5V, 1M-Bit ZEROPOWER® NVRAM	32-Dip	26.25	22.50	19.95
M48Z129V-85PM1	497-2876-5-ND	3.3V, 1M-Bit ZEROPOWER® NVRAM	32-Dip	25.03	21.45	19.02
M48Z512A-70PM1	497-2886-5-ND	5V, 4M-Bit ZEROPOWER® NVRAM	32-Dip	61.25	52.50	46.55
M48Z512AY-70PM1	497-2887-5-ND	5V, 4M-Bit ZEROPOWER® NVRAM	32-Dip	61.25	52.50	46.55

STMicroelectronics POWER MANAGEMENT

RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	10	100
BU931T	497-2797-5-ND	400V, 10A NPN Darlington Driver	TO-220	2.81	2.34	1.97
CLT3-4BT6-TR	497-2455-1-ND	Quad Digital Termination	20-TSSOP	3.21	2.80	2.09
CLT3-4BT6-TR	497-2455-2-ND	Quad Digital Termination	20-TSSOP	3807.50/2,500		
SMLVT3V3	497-2496-1-ND	Low Voltage TRANSIL™	SMB	.72	.58	.44
SMLVT3V3	497-2496-2-ND	Low Voltage TRANSIL™	SMB	570.00/2,500		
VB025MSP13TR	497-3563-1-ND	High Voltage Ignition Coil Driver	10-SOIC	5.94	5.17	3.85
VB025MSP13TR	497-3563-2-ND	High Voltage Ignition Coil Driver	10-SOIC	1848.00/600		
VB921ZVFI	497-2716-5-ND	High Voltage Ignition Coil Driver	Isowatt-220	6.08	5.29	3.94
VIPER12ADIP	497-3377-5-ND	LP Off Line SMPS Primary Switcher	8-Dip	2.22	1.85	1.56
VIPER12-LED-EV	VIPER12-LED-EV-ND	VIPER 12 Evaluation Board	—	39.19	—	—
VIPER22ADIP	497-3286-5-ND	Low Power Off Line SMPS Primary Switcher	8-Dip	2.73	2.28	1.92
VIPER22-LED-EV	VIPER22-LED-EV-ND	VIPER 22 Evaluation Board	—	41.22	—	—
VIPER50A	497-2713-5-ND	700V, 1.5A, Driver	Pentawatt HV	3.51	3.06	2.28
VIPER50A(022Y)	497-2677-5-ND	700V, 1.5A, Driver	Pentawatt HV	3.65	3.18	2.37
VIPER50SP	497-2715-5-ND	620V, 1.5A, Driver	PowerSO-10	3.24	2.82	2.10
VIPER53SP	497-3289-5-ND	Off Line Primary Switch	PowerSO-10	3.78	3.29	3.29
VIPER100	497-2714-5-ND	620V, 3A, Driver	Pentawatt HV	4.32	3.76	2.80
VIPER100(022Y)	497-3285-5-ND	620V, 3A, Driver	Pentawatt HV	4.46	3.88	2.89
VIPER100A-E	497-4687-5-ND	700V, 3A, Driver	Pentawatt HV	4.46	3.88	2.89
VIPER100A(022Y)	497-2656-5-ND	700V, 3A, Driver	Pentawatt HV	4.46	3.88	2.89
VIPER100A-22-E	497-4686-5-ND	700V, 3A, Driver	Pentawatt HV	4.46	3.88	2.89
VN05N	497-3088-5-ND	High Side, Smart Power SSR	5-Pentawatt	3.27	2.85	2.12
VN21(012Y)	497-3290-5-ND	7A, ISO High Side Smart Power SSR	Pentawatt	4.86	4.23	3.15
VN330SP	497-2705-5-ND	0.7A, Quad High Side Smart Power SSR	PowerSO-10	6.62	6.05	4.79
VN330SP-E	497-5052-5-ND	0.7A, Quad High Side Smart Power SSR ***NEW!***	PowerSO-10	6.90	6.30	4.98
VN340SP-E	497-5053-5-ND	0.7A, Quad High Side Smart Power SSR ***NEW!***	PowerSO-10	6.90	6.30	4.98
VN450P13TR	497-4493-1-ND	3-Channel High Side SSR	20-Power SOIC	6.44	5.88	4.65
VN450P13TR	497-4493-2-ND	3-Channel High Side SSR	20-Power SOIC	2184.00/600		
VN610SP	497-2660-5-ND	45A, Single Channel High Side SSR	PowerSO-10	6.10	5.57	4.40
VN610SP13TR	497-3291-1-ND	45A, Single Channel High Side SSR	PowerSO-10	6.10	5.57	4.40
VN610SP13TR	497-3291-2-ND	45A, Single Channel High Side SSR	PowerSO-10	2067.00/600		
VN750	497-2707-5-ND	6A, High Side Driver	Pentawatt	2.94	2.45	2.06
VN750-B5	497-2701-5-ND	6A, High Side Driver	P2-PAK	2.70	2.35	1.75
VN750PT	497-3292-5-ND	6A, High Side Driver	P-PAK	2.88	2.40	2.02
VN750S	497-3293-5-ND	6A, High Side Driver	8-SOIC	2.70	2.35	1.75
VN800PT	497-3294-5-ND	0.7A, High Side Driver	P-PAK	2.81	2.45	1.82
VN800S13TR	497-3295-1-ND	0.7A, High Side Driver	8-SOIC	2.75	2.40	1.79
VN800S13TR	497-3295-2-ND	0.7A, High Side Driver	8-SOIC	3265.00/2,500		
VN808-E	497-4494-5-ND	Octal Channel High Side Driver	36-Power SOIC	8.51	7.77	6.15
VN808CM	497-4495-5-ND	Octal Channel High Side Driver	36-Power SOIC	5.98	5.46	4.32
VN808CM-E	497-4925-5-ND	Octal Channel High Side Driver ***NEW!***	36-Power SOIC	8.51	7.77	6.15
VN808SR13TR	497-4747-1-ND	Octal Channel High Side Driver ***NEW!***	36-Power SOIC	8.74	7.98	6.31
VN808SR13TR	497-4747-2-ND	Octal Channel High Side Driver ***NEW!***	36-Power SOIC	2964.00/600		
VN808TR-E	497-4496-1-ND	Octal Channel High Side Driver	36-Power SOIC	8.51	7.77	6.15
VN808TR-E	497-4496-2-ND	Octal Channel High Side Driver	36-Power SOIC	2886.00/600		
VN820	497-3296-5-ND	9A, High Side Driver	Pentawatt	3.08	2.68	2.00
VN820-B513TR	497-3297-1-ND	9A, High Side Driver	P2-PAK	3.13	2.73	2.03
VN820-B513TR	497-3297-2-ND	9A, High Side Driver	P2-PAK	1543.00/1,000		
VN820SP13TR	497-3298-1-ND	9A, High Side Driver	PowerSO-10	3.48	3.04	2.26
VN820SP13TR	497-3298-2-ND	9A, High Side Driver	PowerSO-10	1083.60/600		
VN920	497-2679-5-ND	30A, Single Channel High Side SSR	Pentawatt	5.00	4.35	3.24
VN920-B5	497-2678-5-ND	30A, Single Channel High Side SSR	P2-PAK	5.08	4.42	3.29
VN920SP13TR	497-2506-1-ND	30A, Single Channel High Side SSR	PowerSO-10	5.21	4.54	3.38
VN920SP13TR	497-2506-2-ND	30A, Single Channel High Side SSR	PowerSO-10	1621.20/600		
VNB20N07	497-2794-5-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK	3.43	2.99	2.23
VNB20N0713TR	497-2794-1-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK	3.43	2.99	2.23
VNB20N0713TR	497-2794-2-ND	70V, 20A, Fully Auto Protected Power Mosfet	D2-PAK	1689.00/1,000		
VNB35NV04	497-2671-5-ND	40V, 30A, Fully Protected Pwr Mosfet	D2-PAK	6.21	5.41	4.03
VND05B(012Y)	497-3300-5-ND	2-Channel, High Side Smart Power SSR	Heptawatt	3.56	3.11	2.31
VND05BSP	497-3089-5-ND	ISO High Side Smart Power SSR	PowerSO-10	3.73	3.25	2.42
VND05BSP13TR	497-3299-1-ND	ISO High Side Smart Power SSR	PowerSO-10	3.56	3.11	2.31
VND05BSP13TR	497-3299-2-ND	ISO High Side Smart Power SSR	PowerSO-10	1108.80/600		
VND3NV0413TR	497-3301-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	D-PAK	1.84	1.60	1.23
VND3NV0413TR	497-3301-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	D-PAK	1630.00/2,500		
VND5N07	497-2481-5-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK	1.80	1.50	1.26
VND7N0413TR	497-3304-1-ND	42V, 7A, Fully Auto Protected Power Mosfet	D-PAK	1.59	1.33	1.12
VND7N0413TR	497-3304-2-ND	42V, 7A, Fully Auto Protected Power Mosfet	D-PAK	1722.50/2,500		
VND7NV04	497-2669-5-ND	40V, 6A, Fully Auto Protected Power Mosfet	D-PAK	1.59	1.33	1.12
VND10N06	497-2767-5-ND	60V, 10A, Fully Auto Protected Power Mosfet	D-PAK	1.74	1.45	1.22
VND14NV04	497-2674-5-ND	40V, 12A, Fully Auto Protected Power Mosfet	D-PAK	2.25	1.88	1.58
VND600	497-4497-5-ND	2-Channel High Side SSR	16-SOIC	5.94	5.17	3.85
VND60013TR	497-4498-1-ND	2-Channel High Side SSR	16-SOIC	5.94	5.17	3.85
VND60013TR	497-4498-2-ND	2-Channel High Side SSR	16-SOIC	2926.00/1,000		
VND600SP	497-2711-5-ND	36V, 25A, Double Channel High Side SSR	PowerSO-10	5.87	5.36	4.24
VND600SP13TR	497-3303-1-ND	36V, 25A, Double Channel High Side SSR	PowerSO-10	5.87	5.36	4.24
VND600SP13TR	497-3303-2-ND	36V, 25A, Double Channel High Side SSR	PowerSO-10	1989.00/600		
VND810SP	497-3305-5-ND	36V, 3.5A, Double Channel High Side Driver	PowerSO-10	5.81	5.06	3.77
VND830ASP13TR	497-4499-1-ND	2-Channel High Side SSR	PowerSO-10	3.56	3.11	2.31

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STMicroelectronics

POWER MANAGEMENT *(Continued)*
RoHS Compliant Parts Available

STMicroelectronics Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
VND830ASP13TR	497-4499-2-ND	2-Channel High Side SSR	PowerSO-10	1108.80/600		
VND830SP	497-2709-5-ND	36V, 6A, Double Channel High Side Driver	PowerSO-10	3.78	3.29	2.45
VND830SP13TR	497-3306-1-ND	36V, 6A, Double Channel High Side Driver	PowerSO-10	3.78	3.29	2.45
VND830SP13TR	497-3306-2-ND	36V, 6A, Double Channel High Side Driver	PowerSO-10	1176.00/600		
VND920	497-2708-5-ND	36V, 35A, Double Ch. High Side SSR	28-SOIC	5.75	5.25	4.15
VND92013TR	497-3307-1-ND	36V, 35A, Double Ch. High Side SSR	28-SOIC	5.75	5.25	4.15
VND92013TR	497-3307-2-ND	36V, 35A, Double Ch. High Side SSR	28-SOIC	3188.00/1,000		
VND5N0713TR	497-2481-1-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK	1.80	1.50	1.26
VND5N0713TR	497-2481-2-ND	70V, 5A, Fully Auto Protected Power Mosfet	D-PAK	1950.00/2,500		
VNH2SP30	497-4500-5-ND	H-Bridge Motor Driver	—	9.55	8.72	6.89
VNH2SP30TR-E	497-4501-1-ND	H-Bridge Motor Driver	—	9.55	8.72	6.89
VNH2SP30TR-E	497-4501-2-ND	H-Bridge Motor Driver	—	5291.00/1,000		
VNK5N07FM	497-3308-5-ND	70V, 5A, Fully Auto Protected Power Mosfet	SOT-82-FM	1.80	1.50	1.26
VNN1NV0413TR	497-2517-1-ND	40V, 1.7A, Fully Auto Protected Power Mosfet	SOT-223	1.05	.91	.70
VNN1NV0413TR	497-2517-2-ND	40V, 1.7A, Fully Auto Protected Power Mosfet	SOT-223	406.00/1,000		
VNN3NV0413TR	497-3309-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	SOT-223	1.50	1.30	1.00
VNN3NV0413TR	497-3309-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet	SOT-223	580.00/1,000		
VNN7NV0413TR	497-2519-1-ND	40V, 6A, Fully Auto Protected Power Mosfet	SOT-223	1.53	1.28	1.08
VNN7NV0413TR	497-2519-2-ND	40V, 6A, Fully Auto Protected Power Mosfet	SOT-223	689.00/1,000		
VNP5N07	497-2791-5-ND	70V, 5A, Fully Auto Protected Power Mosfet	TO-220	1.80	1.50	1.26
VNP5N07FI	497-3313-5-ND	70V, 5A, Fully Auto Protected Power Mosfet	Isowatt-220	1.89	1.58	1.33
VNP10N06	497-3310-5-ND	60V, 10A, Fully Auto Protected Power Mosfet	TO-220	1.62	1.35	1.14
VNP10N07	497-2795-5-ND	70V, 10A, Fully Auto Protected Power Mosfet	TO-220	2.37	1.98	1.66
VNP10N07FI	497-2796-5-ND	70V, 10A, Fully Auto Protected Power Mosfet	Isowatt-220	2.46	2.05	1.73
VNP14N04	497-2661-5-ND	42V, 14A, Fully Auto Protected Power Mosfet	TO-220	2.37	1.98	1.66
VNP20N07	497-2793-5-ND	70V, 20A, Fully Auto Protected Power Mosfet	TO-220	3.29	2.87	2.14
VNP28N04	497-2667-5-ND	42V, 28A, Fully Auto Protected Power Mosfet	TO-220	3.46	3.01	2.24
VNP35N07	497-2792-5-ND	70V, 35A, Fully Auto Protected Power Mosfet	TO-220	5.00	4.35	3.24
VNP35NV04	497-3311-5-ND	40V, 30A, Fully Auto Protected Power Mosfet	TO-220	6.13	5.34	3.98
VNP49N04	497-2649-5-ND	42V, 49A, Fully Auto Protected Power Mosfet	Isowatt-220	4.59	4.00	2.98
VNP49N04FI	497-3312-5-ND	42V, 49A, Fully Auto Protected Power Mosfet	Isowatt-220	5.18	4.52	3.36
VNQ600	497-3314-5-ND	36V, 25A, Quad Channel High Side SSR	28-SOIC	7.59	6.93	5.48
VNQ660SP	497-2700-5-ND	36V, 6A, Quad Channel High Side SSR	PowerSO-10	6.56	5.99	4.74
VNQ660SP13TR	497-3315-1-ND	36V, 6A, Quad Channel High Side SSR	PowerSO-10	6.56	5.99	4.74
VNQ660SP13TR	497-3315-2-ND	36V, 6A, Quad Channel High Side SSR	PowerSO-10	2223.00/600		
VNQ810	497-2703-5-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC	6.62	5.76	4.29
VNQ81013TR	497-3316-1-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC	6.62	5.76	4.29
VNQ81013TR	497-3316-2-ND	36V, 3.5A, Quad Ch. High Side Driver	28-SOIC	3259.00/1,000		
VNQ830	497-2702-5-ND	36V, 6A, Quad Ch. High Side Driver	28-SOIC	6.65	6.07	4.80
VNQ860	497-2704-5-ND	36V, .25A, Quad Ch. High Side Driver	20-SOIC	5.56	4.85	3.61
VNQ860SP	497-4502-5-ND	36V, .25A, Quad Ch. High Side Driver	PowerSO-10	6.10	5.32	3.96
VNS1NV04	497-2672-5-ND	40V, 1.7A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	1.13	.98	.75
VNS1NV04D	497-2673-5-ND	40V, 1.7A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	1.56	1.30	1.10
VNS3NV04D	497-3318-5-ND	40V, 3.5A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	1.71	1.43	1.20
VNS3NV04D13TR	497-3318-1-ND	40V, 3.5A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	1.71	1.43	1.20
VNS3NV04D13TR	497-3318-2-ND	40V, 3.5A, Fully Auto Protected Power Mosfet, Dual N-Channel	8-SOIC	1852.50/2,500		
VNS14NV04	497-3317-5-ND	40V, 12A, Fully Auto Protected Power Mosfet	8-SOIC	2.28	1.90	1.60
VNS14NV0413TR	497-3317-1-ND	40V, 12A, Fully Auto Protected Power Mosfet	8-SOIC	2.28	1.90	1.60
VNS14NV0413TR	497-3317-2-ND	40V, 12A, Fully Auto Protected Power Mosfet	8-SOIC	2470.00/2,500		
VNV35N07	497-3319-5-ND	70V, 35A, Fully Auto Protected Power Mosfet	PowerSO-10	5.37	4.68	3.49
VNW50N04	497-3320-5-ND	42V, 50A, Fully Auto Protected Power Mosfet	TO-247	8.79	8.03	6.35

POWER INTEGRATIONS

INTEGRATED POWER SWITCHING CONTROLLERS — *RoHS Compliant*

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
		Design Kits				
DAK-14A	596-1000-ND	Universal Port Charger/Adapter Design Kit	—	19.43	—	—
DAK-16A	596-1001-ND	AC/DC Power Supply Design Kit	—	19.43	—	—
DAK-18	596-1002-ND	Multi Output AC/DC Power Supply Design Kit	—	29.93	—	—
DAK-32	596-1003-ND	Universal Input, DVD Supply, No Heatsink Design Kit	—	53.93	—	—
DAK-34	596-1004-ND	AC/DC Power Supply Design Kit	—	37.43	—	—
DAK-48A	596-1005-ND	AC/DC Buck Converter Design Kit	—	19.43	—	—
DAK-54	596-1006-ND	AC/DC Adapter Design Kit	—	19.43	—	—
DAK-68A	596-1007-ND	DC/DC Flyback Converter with PoE Powered Device Interface Design Kit	—	34.43	—	—
DAK-71A	596-1009-ND	DC/DC Flyback Converter Design Kit	—	34.43	—	—
DAK-85	596-1104-ND	LinkSwitch-LP Design Accelerator Kit ***NEW!***	—	29.14	—	—
DAK-89	596-1105-ND	LinkSwitch-XT Design Accelerator Kit ***NEW!***	—	19.43	—	—
DAK-91	596-1106-ND	TinySwitch-III Design Accelerator Kit ***NEW!***	—	19.43	—	—
		LinkSwitch®-LP				
LNK562GN-TL	596-1034-1-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8B-SMD	1.08	.90	.72
LNK562GN-TL	596-1034-2-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8B-SMD	479.00/1,000		
LNK562PN	596-1035-5-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8B-Dip	.99	.83	.66
LNK563GN-TL	596-1036-1-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8B-SMD	1.11	.93	.74
LNK563GN-TL	596-1036-2-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8B-SMD	492.00/1,000		
LNK563PN	596-1037-5-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8B-Dip	1.02	.85	.68
LNK564GN-TL	596-1038-1-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8B-SMD	1.14	.95	.76
LNK564GN-TL	596-1038-2-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8B-SMD	505.00/1,000		
LNK564PN	596-1039-5-ND	Energy Efficient Off-Line Switcher IC for Linear Transformer Replacement	8B-Dip	1.05	.88	.70
		LinkSwitch®-TN				
LNK302GN-TL	596-1020-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-SMD	1.11	.93	.74
LNK302GN-TL	596-1020-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-SMD	492.00/1,000		
LNK302PN	596-1021-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-Dip	1.02	.85	.68
LNK304GN-TL	596-1022-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-SMD	1.23	1.03	.82
LNK304GN-TL	596-1022-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-SMD	545.00/1,000		
LNK304PN	596-1023-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-Dip	1.14	.95	.76
LNK305GN-TL	596-1024-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-SMD	1.44	1.20	.96
LNK305GN-TL	596-1024-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-SMD	638.00/1,000		
LNK305PN	596-1025-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-Dip	1.35	1.13	.90
LNK306GN-TL	596-1026-1-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-SMD	1.40	1.12	.84
LNK306GN-TL	596-1026-2-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-SMD	728.00/1,000		
LNK306PN	596-1027-5-ND	Lowest Component Count, Energy Efficient Off-Line Switcher IC	8B-Dip	1.33	1.06	.80
		NEW! LinkSwitch®-XT NEW!				
LNK362GN-TL	596-1085-1-ND	Energy Efficient, Low Power Off-Line Switcher	8B-SMD	1.17	.98	.78
LNK362GN-TL	596-1085-2-ND	Energy Efficient, Low Power Off-Line Switcher	8B-SMD	519.00/1,000		
LNK362PN	596-1084-5-ND	Energy Efficient, Low Power Off-Line Switcher	8B-Dip	1.08	.90	.72
LNK363GN-TL	596-1087-1-ND	Energy Efficient, Low Power Off-Line Switcher	8B-SMD	1.26	1.05	.84
LNK363GN-TL	596-1087-2-ND	Energy Efficient, Low Power Off-Line Switcher	8B-SMD	559.00/1,000		
LNK363PN	596-1086-5-ND	Energy Efficient, Low Power Off-Line Switcher	8B-Dip	1.17	.98	.78
LNK364GN-TL	596-1089-1-ND	Energy Efficient, Low Power Off-Line Switcher	8B-SMD	1.32	1.10	.88
LNK364GN-TL	596-1089-2-ND	Energy Efficient, Low Power Off-Line Switcher	8B-SMD	585.00/1,000		
LNK364PN	596-1088-5-ND	Energy Efficient, Low Power Off-Line Switcher	8B-Dip	1.23	1.03	.82
		LinkSwitch®				
LNK500GN-TL	596-1028-1-ND	Energy Efficient, CV or CV/CC Switcher	8B-SMD	1.23	1.03	.82
LNK500GN-TL	596-1028-2-ND	Energy Efficient, CV or CV/CC Switcher	8B-SMD	545.00/1,000		
LNK500PN	596-1029-5-ND	Energy Efficient, CV or CV/CC Switcher	8B-Dip	1.14	.95	.76
LNK501GN-TL	596-1030-1-ND	Energy Efficient, CV/CC Switcher	8B-SMD	1.44	1.20	.96
LNK501GN-TL	596-1030-2-ND	Energy Efficient, CV/CC Switcher	8B-SMD	638.00/1,000		
LNK501PN	596-1031-5-ND	Energy Efficient, CV/CC Switcher	8B-Dip	1.35	1.13	.90
LNK520GN-TL	596-1032-1-ND	Energy Efficient, CV or CV/CC Switcher	8-SMD	1.02	.85	.68
LNK520GN-TL	596-1032-2-ND	Energy Efficient, CV or CV/CC Switcher	8-SMD	452.00/1,000		
LNK520PN	596-1033-5-ND	Energy Efficient, CV or CV/CC Switcher	8-Dip	.93	.78	.62
		DPA-Switch®				
DPA423GN-TL	596-1010-1-ND	Highly Integrated DC/DC Converter	8-SMD	2.40	1.92	1.44
DPA423GN-TL	596-1010-2-ND	Highly Integrated DC/DC Converter	8-SMD	1248.00/1,000		
DPA423PN	596-1011-5-ND	Highly Integrated DC/DC Converter	8-Dip	2.33	1.86	1.40
DPA423SN-TL	596-1012-1-ND	Highly Integrated DC/DC Converter	S-PAK	2.90	2.33	1.81
DPA423SN-TL	596-1012-2-ND	Highly Integrated DC/DC Converter	S-PAK	1645.00/1,000		
DPA424GN-TL	596-1013-1-ND	Highly Integrated DC/DC Converter	8-SMD	2.66	2.13	1.66
DPA424GN-TL	596-1013-2-ND	Highly Integrated DC/DC Converter	8-SMD	1505.00/1,000		
DPA424PN	596-1014-5-ND	Highly Integrated DC/DC Converter	8-Dip	2.59	2.07	1.61
DPA424SN-TL	596-1015-1-ND	Highly Integrated DC/DC Converter	S-PAK	3.40	2.72	2.12
DPA424SN-TL	596-1015-2-ND	Highly Integrated DC/DC Converter	S-PAK	1925.00/1,000		
DPA425GN-TL	596-1016-1-ND	Highly Integrated DC/DC Converter	8-SMD	3.67	2.94	2.29
DPA425GN-TL	596-1016-2-ND	Highly Integrated DC/DC Converter	8-SMD	2078.00/1,000		
DPA425PN	596-1017-5-ND	Highly Integrated DC/DC Converter	8-Dip	3.60	2.88	2.24
DPA425SN-TL	596-1018-1-ND	Highly Integrated DC/DC Converter	S-PAK	4.41	3.53	2.75
DPA425SN-TL	596-1018-2-ND	Highly Integrated DC/DC Converter	S-PAK	2499.00/1,000		
DPA426SN-TL	596-1019-1-ND	Highly Integrated DC/DC Converter	S-PAK	5.54	4.43	3.45
DPA426SN-TL	596-1019-2-ND	Highly Integrated DC/DC Converter	S-PAK	3137.00/1,000		

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POWER INTEGRATIONS

INTEGRATED POWER SWITCHING CONTROLLERS (*Continued*) — *RoHS Compliant*

TinySwitch®-II

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNY263GN-TL	596-1044-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	1.25	1.00	.75
TNY263GN-TL	596-1044-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	650.00/1,000		
TNY263PN	596-1045-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-Dip	1.35	1.13	.90
TNY264GN-TL	596-1046-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	1.35	1.08	.81
TNY264GN-TL	596-1046-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	702.00/1,000		
TNY264PN	596-1047-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-Dip	1.47	1.23	.98
TNY265GN-TL	596-1048-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	1.40	1.12	.84
TNY265GN-TL	596-1048-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	728.00/1,000		
TNY265PN	596-1049-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-Dip	1.28	1.02	.77
TNY266GN-TL	596-1050-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	1.50	1.20	.90
TNY266GN-TL	596-1050-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	780.00/1,000		
TNY266PN	596-1051-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-Dip	1.38	1.10	.83
TNY267GN-TL	596-1052-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	1.70	1.36	1.02
TNY267GN-TL	596-1052-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	884.00/1,000		
TNY267PN	596-1053-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-Dip	1.58	1.26	.95
TNY268GN-TL	596-1054-1-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	1.85	1.48	1.11
TNY268GN-TL	596-1054-2-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-SMD	962.00/1,000		
TNY268PN	596-1055-5-ND	Enhanced, Energy Efficient, Low Power Off-Line Switcher	8B-Dip	1.73	1.38	1.04

NEW! TinySwitch®-III NEW!

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNY274PN	596-1090-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8B-Dip	1.35	1.13	.90
TNY275PN	596-1091-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8B-Dip	1.41	1.18	.94
TNY276PN	596-1092-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8B-Dip	1.25	1.00	.75
TNY277PN	596-1093-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8B-Dip	1.38	1.10	.83
TNY278PN	596-1094-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8B-Dip	1.58	1.26	.95
TNY279PN	596-1095-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8B-Dip	1.80	1.44	1.08
TNY280PN	596-1096-5-ND	Energy Efficient, Off-Line Switcher with Enhanced Flexibility and Extended Power Range	8B-Dip	2.08	1.66	1.25

TOPSwitch®-GX

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TOP242GN-TL	596-1065-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	2.38	1.90	1.43
TOP242GN-TL	596-1065-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	1235.00/1,000		
TOP242PN	596-1066-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-Dip	2.25	1.80	1.35
TOP242YN	596-1067-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7C	2.34	1.88	1.46
TOP243GN-TL	596-1068-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	2.45	1.97	1.53
TOP243GN-TL	596-1068-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	1390.00/1,000		
TOP243PN	596-1069-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-Dip	2.34	1.88	1.46
TOP243YN	596-1070-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7C	2.66	2.13	1.66
TOP244GN-TL	596-1071-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	2.77	2.22	1.73
TOP244GN-TL	596-1071-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	1568.00/1,000		
TOP244PN	596-1072-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-Dip	2.66	2.13	1.66
TOP244R-TL	596-1097-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	3.02	2.42	1.88
TOP244R-TL	596-1097-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	1306.50/750		
TOP244YN	596-1073-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7C	2.95	2.36	1.84
TOP245PN	596-1074-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-Dip	2.93	2.34	1.82
TOP245R-TL	596-1098-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	3.31	2.65	2.06
TOP245R-TL	596-1098-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	1405.50/750		
TOP245YN	596-1075-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7C	3.24	2.60	2.02
TOP246PN	596-1076-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-Dip	3.22	2.58	2.01
TOP246R-TL	596-1099-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	3.58	2.87	2.23
TOP246R-TL	596-1099-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	1550.25/750		
TOP246YN	596-1077-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7C	3.51	2.81	2.19
TOP247R-TL	596-1100-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	3.87	3.10	2.41
TOP247R-TL	596-1100-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	1677.00/750		
TOP247YN	596-1078-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7C	3.80	3.05	2.37
TOP248R-TL	596-1101-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	4.14	3.32	2.58
TOP248R-TL	596-1101-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	1794.00/750		
TOP248YN	596-1079-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7C	4.07	3.26	2.54
TOP249R-TL	596-1102-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	4.43	3.55	2.76
TOP249R-TL	596-1102-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	1920.75/750		
TOP249YN	596-1080-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7C	4.37	3.50	2.72
TOP250R-TL	596-1103-1-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	5.00	4.00	3.11
TOP250R-TL	596-1103-2-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher ***NEW!***	TO-263	2164.50/750		
TOP250YN	596-1081-5-ND	Extended Power, Design Flexible, EcoSmart®, Integrated Off-Line Switcher	TO-220-7C	4.93	3.95	3.07

TOPSwitch®-FX

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TOP232GN-TL	596-1062-1-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	2.45	1.96	1.47
TOP232GN-TL	596-1062-2-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	1274.00/1,000		
TOP233GN-TL	596-1063-1-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	2.54	2.04	1.59
TOP233GN-TL	596-1063-2-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	1441.00/1,000		
TOP234GN-TL	596-1064-1-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	2.90	2.33	1.81
TOP234GN-TL	596-1064-2-ND	Design Flexible, EcoSmart®, Integrated Off-Line Switcher	8B-SMD	1645.00/1,000		

TinySwitch®

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNY253GN-TL	596-1040-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.63	1.30	.98
TNY253GN-TL	596-1040-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	845.00/1,000		
TNY254GN-TL	596-1041-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.63	1.30	.98
TNY254GN-TL	596-1041-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	845.00/1,000		
TNY255GN-TL	596-1042-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	1.70	1.36	1.02
TNY255GN-TL	596-1042-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	884.00/1,000		

TinySwitch® Plus

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TNY256GN-TL	596-1043-1-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	2.03	1.62	1.22
TNY256GN-TL	596-1043-2-ND	Energy Efficient, Low Power Off-Line Switcher	8-SMD	1053.00/1,000		

TOPSwitch®

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TOP209GN-TL	596-1056-1-ND	3-Terminal Off-Line PWM Switch	8-SMD	2.18	1.74	1.31
TOP209GN-TL	596-1056-2-ND	3-Terminal Off-Line PWM Switch	8-SMD	1131.00/1,000		
TOP210GN-TL	596-1057-1-ND	3-Terminal Off-Line PWM Switch	8-SMD	2.32	1.86	1.45
TOP210GN-TL	596-1057-2-ND	3-Terminal Off-Line PWM Switch	8-SMD	1313.00/1,000		
TOP412GN-TL	596-1082-1-ND	3-Terminal DC/DC PWM Switch	8-SMD	2.90	2.33	1.81
TOP412GN-TL	596-1082-2-ND	3-Terminal DC/DC PWM Switch	8-SMD	1645.00/1,000		
TOP414GN-TL	596-1083-1-ND	3-Terminal DC/DC PWM Switch	8-SMD	3.26	2.61	2.03
TOP414GN-TL	596-1083-2-ND	3-Terminal DC/DC PWM Switch	8-SMD	1849.00/1,000		

TOPSwitch®-II

Mfg. Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TOP221GN-TL	596-1058-1-ND	3-Terminal Off-Line PWM Switch	8L-SMD	2.40	1.92	1.44
TOP221GN-TL	596-1058-2-ND	3-Terminal Off-Line PWM Switch	8L-SMD	1248.00/1,000		
TOP222GN-TL	596-1059-1-ND	3-Terminal Off-Line PWM Switch	8L-SMD	2.54	2.04	1.59
TOP222GN-TL	596-1059-2-ND	3-Terminal Off-Line PWM Switch	8L-SMD	1441.00/1,000		
TOP223GN-TL	596-1060-1-ND	3-Terminal Off-Line PWM Switch	8L-SMD	2.95	2.36	1.84
TOP223GN-TL	596-1060-2-ND	3-Terminal Off-Line PWM Switch	8L-SMD	1670.00/1,000		
TOP224GN-TL	596-1061-1-ND	3-Terminal Off-Line PWM Switch	8L-SMD	3.33	2.67	2.08
TOP224GN-TL	596-1061-2-ND	3-Terminal Off-Line PWM Switch	8L-SMD	1887.00/1,000		

·M·C·C· Micro Commercial Components

78/79 SERIES VOLTAGE REGULATORS – *RoHS Compliant*

MCC Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
MC78L05BP-AP	MC78L05BP-APMSCT-ND	5V, 100mA Positive Voltage Reg	TO-92	.20	.18	.15
MC78L05BP-AP	MC78L05BP-APMSTB-ND	5V, 100mA Positive Voltage Reg	TO-92	325.00/2,000		
MC78L05F-TP	MC78L05F-TPMSCT-ND	5V, 100mA Positive Voltage Reg	SOT-89	.48	.42	.36
MC78L05F-TP	MC78L05F-TPMSTR-ND	5V, 100mA Positive Voltage Reg	SOT-89	390.00/1,000		
MC78L06BP-AP	MC78L06BP-APMSCT-ND	6V, 100mA Positive Voltage Reg	TO-92	.20	.18	.15
MC78L06BP-AP	MC78L06BP-APMSTB-ND	6V, 100mA Positive Voltage Reg	TO-92	325.00/2,000		
MC78L06F-TP	MC78L06F-TPMSCT-ND	6V, 100mA Positive Voltage Reg	SOT-89	.48	.42	.36
MC78L06F-TP	MC78L06F-TPMSTR-ND	6V, 100mA Positive Voltage Reg	SOT-89	390.00/1,000		
MC78L08BP-AP	MC78L08BP-APMSCT-ND	8V, 100mA Positive Voltage Reg	TO-92	.20	.18	.15
MC78L08BP-AP	MC78L08BP-APMSTB-ND	8V, 100mA Positive Voltage Reg	TO-92	325.00/2,000		
MC78L08F-TP	MC78L08F-TPMSCT-ND	8V, 100mA Positive Voltage Reg	SOT-89	.48	.42	.36
MC78L08F-TP	MC78L08F-TPMSTR-ND	8V, 100mA Positive Voltage Reg	SOT-89	390.00/1,000		
MC78L09BP-AP	MC78L09BP-APMSCT-ND	9V, 100mA Positive Voltage Reg	TO-92	.20	.18	.15
MC78L09BP-AP	MC78L09BP-APMSTB-ND	9V, 100mA Positive Voltage Reg	TO-92	325.00/2,000		
MC78L09F-TP	MC78L09F-TPMSCT-ND	9V, 100mA Positive Voltage Reg	SOT-89	.48	.42	.36
MC78L09F-TP	MC78L09F-TPMSTR-ND	9V, 100mA Positive Voltage Reg	SOT-89	390.00/1,000		
MC78L12BP-AP	MC78L12BP-APMSCT-ND	12V, 100mA Positive Voltage Reg	TO-92	.20	.18	.15
MC78L12BP-AP	MC78L12BP-APMSTB-ND	12V, 100mA Positive Voltage Reg	TO-92	325.00/2,000		
MC78L12F-TP	MC78L12F-TPMSCT-ND	12V, 100mA Positive Voltage Reg	SOT-89	.48	.42	.36
MC78L12F-TP	MC78L12F-TPMSTR-ND	12V, 100mA Positive Voltage Reg	SOT-89	390.00/1,000		
MC79L05BP-AP	MC79L05BP-APMSCT-ND	5V, 100mA Negative Voltage Reg	TO-92	.20	.18	.15
MC79L05BP-AP	MC79L05BP-APMSTB-ND	5V, 100mA Negative Voltage Reg	TO-92	325.00/2,000		
MC79L05F-TP	MC79L05F-TPMSCT-ND	5V, 100mA Negative Voltage Reg	SOT-89	.48	.42	.36
MC79L05F-TP	MC79L05F-TPMSTR-ND	5V, 100mA Negative Voltage Reg	SOT-89	390.00/1,000		
MC79L06BP-AP	MC79L06BP-APMSCT-ND	6V, 100mA Negative Voltage Reg	TO-92	.20	.18	.15
MC79L06BP-AP	MC79L06BP-APMSTB-ND	6V, 100mA Negative Voltage Reg	TO-92	325.00/2,000		
MC79L06F-TP	MC79L06F-TPMSCT-ND	6V, 100mA Negative Voltage Reg	SOT-89	.48	.42	.36
MC79L06F-TP	MC79L06F-TPMSTR-ND	6V, 100mA Negative Voltage Reg	SOT-89	390.00/1,000		
MC79L08BP-AP	MC79L08BP-APMSCT-ND	8V, 100mA Negative Voltage Reg	TO-92	.20	.18	.15
MC79L08BP-AP	MC79L08BP-APMSTB-ND	8V, 100mA Negative Voltage Reg	TO-92	325.00/2,000		
MC79L08F-TP	MC79L08F-TPMSCT-ND	8V, 100mA Negative Voltage Reg	SOT-89	.48	.42	.36
MC79L08F-TP	MC79L08F-TPMSTR-ND	8V, 100mA Negative Voltage Reg	SOT-89	390.00/1,000		
MC79L09BP-AP	MC79L09BP-APMSCT-ND	9V, 100mA Negative Voltage Reg	TO-92	.20	.18	.15
MC79L09BP-AP	MC79L09BP-APMSTB-ND	9V, 100mA Negative Voltage Reg	TO-92	325.00/2,000		
MC79L09F-TP	MC79L09F-TPMSCT-ND	9V, 100mA Negative Voltage Reg	SOT-89	.48	.42	.36

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

·M·C·C· Micro Commercial Components

78/79 SERIES VOLTAGE REGULATORS (Continued) – RoHS Compliant

MCC Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
MC79L09F-TP	MC79L09F-TPMSTR-ND	9V, 100mA Negative Voltage Reg	SOT-89	390.00/1,000		
MC79L12BP-AP	MC79L12BP-APMSCT-ND	12V, 100mA Negative Voltage Reg	TO-92	.20	.18	.15
MC79L12BP-AP	MC79L12BP-APMSTB-ND	12V, 100mA Negative Voltage Reg	TO-92	325.00/2,000		
MC79L12F-TP	MC79L12F-TPMSCT-ND	12V, 100mA Negative Voltage Reg	SOT-89	.48	.42	.36
MC79L12F-TP	MC79L12F-TPMSTR-ND	12V, 100mA Negative Voltage Reg	SOT-89	390.00/1,000		
MC7805CT-BP	MC7805CT-BPMS-ND	5V, 1500mA Positive Voltage Reg	TO-220	.40	.35	.30
MC7806CT-BP	MC7806CT-BPMS-ND	6V, 1500mA Positive Voltage Reg	TO-220	.40	.35	.30
MC7808CT-BP	MC7808CT-BPMS-ND	8V, 1500mA Positive Voltage Reg	TO-220	.40	.35	.30
MC7809CT-BP	MC7809CT-BPMS-ND	9V, 1500mA Positive Voltage Reg	TO-220	.40	.35	.30
MC7810CT-BP	MC7810CT-BPMS-ND	10V, 1500mA Positive Voltage Reg	TO-220	.40	.35	.30
MC7812CT-BP	MC7812CT-BPMS-ND	12V, 1500mA Positive Voltage Reg	TO-220	.40	.35	.30
MC7815CT-BP	MC7815CT-BPMS-ND	15V, 1500mA Positive Voltage Reg	TO-220	.40	.35	.30
MC7905CT-BP	MC7905CT-BPMS-ND	5V, 1500mA Negative Voltage Reg	TO-220	.40	.35	.30
MC7906CT-BP	MC7906CT-BPMS-ND	6V, 1500mA Negative Voltage Reg	TO-220	.40	.35	.30
MC7908CT-BP	MC7908CT-BPMS-ND	8V, 1500mA Negative Voltage Reg	TO-220	.40	.35	.30
MC7909CT-BP	MC7909CT-BPMS-ND	9V, 1500mA Negative Voltage Reg	TO-220	.40	.35	.30
MC7910CT-BP	MC7910CT-BPMS-ND	10V, 1500mA Negative Voltage Reg	TO-220	.40	.35	.30
MC7912CT-BP	MC7912CT-BPMS-ND	12V, 1500mA Negative Voltage Reg	TO-220	.40	.35	.30
MC7915CT-BP	MC7915CT-BPMS-ND	15V, 1500mA Negative Voltage Reg	TO-220	.40	.35	.30

FAIRCHILD SEMICONDUCTOR®

7400 SERIES TTL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74125N-ND	Tri-State Quad Buffer	14-Dip	3.05	2.40	1.94

FAIRCHILD SEMICONDUCTOR®

74S00 SERIES SCHOTTKY TTL

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74S51N-ND	Dual 2-Input AND-OR-INV Gate	14-Dip	.82	.62	.46
DM74S64N-ND	AND-OR-INV Gate	14-Dip	1.17	.96	.81
DM74S941N-ND	Tri-State Octal Buffer	20-Dip	3.64	2.94	2.38

FAIRCHILD SEMICONDUCTOR®

74ALS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74ALS04BM-ND	Hex Inverter	14-SOIC	.54	.44	.33
DM74ALS04BN-ND	Hex Inverter	14-Dip	.53	.40	.30
DM74ALS08N_F40-ND	Quad 2-Input AND Gate	14-Dip	.54	.44	.33
DM74ALS20AN-ND	Dual 4-Input NAND Gate	14-Dip	.62	.47	.36
DM74ALS30AN-ND	8-Input NAND Gate	14-Dip	.67	.51	.38
DM74ALS32N-ND	Quad 2-Input OR Gate	14-Dip	.53	.40	.30
DM74ALS74AN-ND	DL D-Type Pos.-Edge-Triggered F/F with Preset and Clear	14-Dip	.67	.51	.38
DM74ALS138M-ND	Expandable 3/8 Decoder	16-SOIC	.67	.51	.38
DM74ALS244AN-ND	Tri-State Octal Line Driver	20-Dip	.76	.63	.51
DM74ALS244AWM-ND	Tri-State Octal Line Driver	20-SOIC	.86	.65	.49
DM74ALS245AWM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.86	.65	.49
DM74ALS257M-ND	Tri-State Quad 2/1 Multiplexer	16-SOIC	.67	.51	.38
DM74ALS373N-ND	Octal D-Type Latch	20-Dip	.76	.63	.51
DM74ALS540AN-ND	Octal Inverting Buffer and Line Driver	20-Dip	.97	.81	.65
DM74ALS541N-ND	Octal Buffer/Line Driver with Tri-State Output	20-Dip	.97	.81	.65
DM74ALS541WM-ND	Octal Buffer/Line Driver with Tri-State Output	20-SOIC	.86	.72	.58
DM74ALS574AN-ND	Octal D-Type Flip-Flop	20-Dip	.97	.81	.65
DM74ALS574AWM-ND	Octal D-Type Flip-Flop	20-SOIC	.86	.72	.58
DM74ALS646WM-ND	Tri-State Octal Bus Transceiver	24-SOIC	1.95	1.56	1.17
DM74ALS5245N-ND	Octal Bus Transceiver with Schmitt Trigger	20-Dip	1.37	1.14	.92

FAIRCHILD SEMICONDUCTOR®

74AS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DM74AS02N-ND	Quad 2-Input NOR Gate	14-Dip	.92	.76	.64
DM74AS10N-ND	Triple 3-Input NAND Gate	14-Dip	.64	.48	.36
DM74AS20N-ND	Dual 4-Input NAND Gate	14-Dip	.92	.76	.64
DM74AS30N-ND	8-Input NAND Gate	14-Dip	.73	.55	.41
DM74AS74N-ND	Dual D-Type Pos.-Edge-Triggered F/F with Preset and Clear	14-Dip	.76	.57	.43
DM74AS158N-ND	Quad 2-Input Multiplexer, Inverting	16-Dip	1.38	1.15	.92
DM74AS258N-ND	Tri-State Quad 2/1 Multiplexer	16-Dip	1.44	1.20	.96
DM74AS286M-ND	9-Bit Parity Generator/Checker	14-SOIC	1.35	1.08	.81
DM74AS286N-ND	9-Bit Parity Generator/Checker	14-Dip	1.40	1.17	.94
DM74AS648NT-ND	Octal Bus Transceiver	24-Dip .3"	5.40	4.32	3.36
DM74AS1032AN-ND	Quad 2-Input or Driver	14-Dip	1.35	1.13	.90
DM74AS1034AM-ND	Hex Non-Inverting Driver	14-SOIC	1.44	1.20	.96

FAIRCHILD SEMICONDUCTOR®

74LCX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LCX00MTCXCT-ND	Low Voltage Quad 2-Input NAND Gate* ***NEW!***	14-TSSOP	.41	.32	.23
74LCX00MTCXTR-ND	Low Voltage Quad 2-Input NAND Gate* ***NEW!***	14-TSSOP	234.00/2,500		
74LCX00MXCT-ND	Low Voltage Quad 2-Input NAND Gate* ***NEW!***	14-SOIC	.41	.32	.23
74LCX00MXTR-ND	Low Voltage Quad 2-Input NAND Gate* ***NEW!***	14-SOIC	234.00/2,500		
74LCX02MTCXCT-ND	Low Voltage Quad 2-Input NOR Gate* ***NEW!***	14-TSSOP	.50	.40	.30
74LCX02MTCXTR-ND	Low Voltage Quad 2-Input NOR Gate* ***NEW!***	14-TSSOP	354.38/2,500		
74LCX04MTCXCT-ND	Low Voltage Hex Inverter* ***NEW!***	14-TSSOP	.41	.32	.23
74LCX04MTCXTR-ND	Low Voltage Hex Inverter* ***NEW!***	14-TSSOP	246.50/2,500		
74LCX04MXCT-ND	Low Voltage Hex Inverter* ***NEW!***	14-SOIC	.41	.32	.23
74LCX04MXTR-ND	Low Voltage Hex Inverter* ***NEW!***	14-SOIC	246.50/2,500		
74LCX07MTCXCT-ND	Low Voltage Hex Buffer, Open Drain Outputs* ***NEW!***	14-TSSOP	.41	.32	.23
74LCX07MTCXTR-ND	Low Voltage Hex Buffer, Open Drain Outputs* ***NEW!***	14-TSSOP	246.50/2,500		
74LCX08MTC-ND	Quad 2-Input AND Gate	14-TSSOP	.38	.31	.21
74LCX08MXCT-ND	Low Voltage Quad 2-Input AND Gate* ***NEW!***	14-SOIC	.41	.32	.23
74LCX08MXTR-ND	Low Voltage Quad 2-Input AND Gate* ***NEW!***	14-SOIC	246.50/2,500		
74LCX11MTCXCT-ND	Low Voltage Triple 3-Input AND Gate* ***NEW!***	14-TSSOP	.42	.35	.24
74LCX11MTCXTR-ND	Low Voltage Triple 3-Input AND Gate* ***NEW!***	14-TSSOP	337.50/2,500		
74LCX14M-ND	Low Voltage Hex Inverter* ***NEW!***	14-SOIC	.37	.30	.21
74LCX14MTCXCT-ND	Low Voltage Hex Inverter* ***NEW!***	14-TSSOP	.40	.32	.22
74LCX14MTCXTR-ND	Low Voltage Hex Inverter* ***NEW!***	14-TSSOP	242.25/2,500		
74LCX14MXCT-ND	Low Voltage Hex Inverter* ***NEW!***	14-SOIC	.40	.32	.22
74LCX14MXTR-ND	Low Voltage Hex Inverter* ***NEW!***	14-SOIC	242.25/2,500		
74LCX32MTCXCT-ND	Low Voltage Quad 2-Input OR Gate* ***NEW!***	14-TSSOP	.40	.32	.22
74LCX32MTCXTR-ND	Low Voltage Quad 2-Input OR Gate* ***NEW!***	14-TSSOP	246.50/2,500		
74LCX32MXCT-ND	Low Voltage Quad 2-Input OR Gate* ***NEW!***	14-SOIC	.41	.32	.23
74LCX32MXTR-ND	Low Voltage Quad 2-Input OR Gate* ***NEW!***	14-SOIC	246.50/2,500		
74LCX38MTCXCT-ND	Low Voltage Quad 2-Input NAND Gate* ***NEW!***	14-TSSOP	.50	.40	.30
74LCX38MTCXTR-ND	Low Voltage Quad 2-Input NAND Gate* ***NEW!***	14-TSSOP	354.38/2,500		
74LCX74MTC-ND	Dual D-Type Edge-Triggered Flip-Flop	14-TSSOP	.37	.30	.21
74LCX74MXCT-ND	LV Dual D-Type Pos. Edge-Triggered Flip-Flop* ***NEW!***	14-SOIC	.37	.30	.21
74LCX74MXTR-ND	LV Dual D-Type Pos. Edge-Triggered Flip-Flop* ***NEW!***	14-SOIC	242.25/2,500		
74LCX86MTCXCT-ND	Low Voltage Quad 2-Input Exclusive-OR Gate* ***NEW!***	14-TSSOP	.37	.30	.21
74LCX86MTCXTR-ND	Low Voltage Quad 2-Input Exclusive-OR Gate* ***NEW!***	14-TSSOP	242.25/2,500		
74LCX125M-ND	Low Voltage Quad Buffer* ***NEW!***	14-SOIC	.40	.33	.23
74LCX125MXCT-ND	Low Voltage Quad Buffer* ***NEW!***	14-SOIC	.39	.32	.22
74LCX125MXTR-ND	Low Voltage Quad Buffer* ***NEW!***	14-SOIC	263.50/2,500		
74LCX138M-ND	Low Voltage 1 of 8 Decoder/Demultiplexer* ***NEW!***	16-SOIC	.49	.40	.27
74LCX138MTCXCT-ND	Low Voltage 1 of 8 Decoder/Demultiplexer* ***NEW!***	16-TSSOP	.49	.40	.27
74LCX138MTCXTR-ND	Low Voltage 1 of 8 Decoder/Demultiplexer* ***NEW!***	16-TSSOP	318.75/2,500		
74LCX157MTCXCT-ND	Low Voltage Quad 2-Input Multiplexer* ***NEW!***	16-TSSOP	.49	.40	.27
74LCX157MTCXTR-ND	Low Voltage Quad 2-Input Multiplexer* ***NEW!***	16-TSSOP	318.75/2,500		
74LCX240MTCXCT-ND	Low Voltage Octal Buffer/Line Driver* ***NEW!***	20-TSSOP	.40	.32	.24
74LCX240MTCXTR-ND	Low Voltage Octal Buffer/Line Driver* ***NEW!***	20-TSSOP	286.88/2,500		
74LCX244MSAXCT-ND	Low Voltage Buffer/Line Driver* ***NEW!***	20-SSOP	.75	.63	.50
74LCX244MSAXTR-ND	Low Voltage Buffer/Line Driver* ***NEW!***	20-SSOP	665.00/2,000		
74LCX244MTC-ND	Tri-State Buffer/Line Driver	20-TSSOP	.43	.34	.26
74LCX245MTC-ND	Bi-Directional Octal Transceiver	20-TSSOP	.43	.34	.26
74LCX244WMXCT-ND	Low Voltage Buffer/Line Driver* ***NEW!***	20-SOIC	.40	.32	.24
74LCX244WMXTR-ND	Low Voltage Buffer/Line Driver* ***NEW!***	20-SOIC	280.00/2,000		
74LCX245WM-ND	Low Voltage Bidirectional Transceiver* ***NEW!***	20-SOIC	.55	.44	.33
74LCX245WMXCT-ND	Low Voltage Bidirectional Transceiver* ***NEW!***	20-SOIC	.40	.32	.24
74LCX245WMXTR-ND	Low Voltage Bidirectional Transceiver* ***NEW!***	20-SOIC	308.00/2,000		
74LCX257MTCXCT-ND	Low Voltage Quad 2-Input Multiplexer* ***NEW!***	16-TSSOP	.49	.40	.27
74LCX257MTCXTR-ND	Low Voltage Quad 2-Input Multiplexer* ***NEW!***	16-TSSOP	318.75/2,500		
74LCX373MTCXCT-ND	Low Voltage Octal Transparent Latch* ***NEW!***	20-TSSOP	.49	.40	.27
74LCX373MTCXTR-ND	Low Voltage Octal Transparent Latch* ***NEW!***	20-TSSOP	381.38/2,500		
74LCX541MTC-ND	Low Voltage Octal Buffer/Line Driver* ***NEW!***	20-TSSOP	.56	.42	.32
74LCX541MTCXCT-ND	Low Voltage Octal Buffer/Line Driver* ***NEW!***	20-TSSOP	.52	.39	.30
74LCX541MTCXTR-ND	Low Voltage Octal Buffer/Line Driver* ***NEW!***	20-TSSOP	455.00/2,500		
74LCX541WM-ND	Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
74LCX573MTC-ND	Octal D-Type Latch	20-TSSOP	.56	.42	.32
74LCX574MTCXCT-ND	Low Voltage Octal D-Type Flip-Flop* ***NEW!***	20-TSSOP	.52	.39	.30
74LCX574MTCXTR-ND	Low Voltage Octal D-Type Flip-Flop* ***NEW!***	20-TSSOP	455.00/2,500		
74LCX16244MEA-ND	16-Bit Buffer/Line Driver	48-SSOP	1.26	1.05	.84
74LCX16244MTD-ND	16-Bit Buffer/Line Driver	48-TSSOP	.90	.68	.51
74LCX16245MEA-ND	16-Bit Bidirectional Transceiver	48-SSOP	1.26	1.05	.84
74LCX16245MTD-ND	16-Bit Bidirectional Transceiver	48-TSSOP	.90	.68	.51
74LCX16373MEA-ND	16-Bit Transparent Latch with Tri-State Outputs	48-SSOP	1.26	1.05	.84
74LCX16373MTD-ND	Tri-State 16-Bit Transparent D-Type Latch	48-TSSOP	.81	.68	.54
74LCX16543MTDXCT-ND	Low Voltage 16-Bit Registered Transceiver* ***NEW!***	56-TSSOP	1.38	1.10	.83
74LCX16543MTDXTR-ND	Low Voltage 16-Bit Registered Transceiver* ***NEW!***	56-TSSOP	715.00/1,000		
74LCX16646MTDXCT-ND	Low Voltage 16-Bit Transceiver/Register* ***NEW!***	56-TSSOP	1.38	1.10	.83
74LCX16646MTDXTR-ND	Low Voltage 16-Bit Transceiver/Register* ***NEW!***	56-TSSOP	715.00/1,000		
74LCXR162245MTXCT-ND	Low Voltage 16-Bit Bidirectional Transceiver* ***NEW!***	48-TSSOP	.93	.78	.62
74LCXR162245MTXTR-ND	Low Voltage 16-Bit Bidirectional Transceiver* ***NEW!***	48-TSSOP	412.30/1,000		

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FAIRCHILD SEMICONDUCTOR®

74LVQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVQ00SC-ND	Low Voltage Quad 2-Input NAND Gate	14-SOIC	.79	.66	.53
74LVQ08SC-ND	Low Voltage Quad 2-Input AND Gate	14-SOIC	.79	.66	.53
74LVQ14SC-ND	Low Voltage Hex Schmitt Trigger	14-SOIC	.79	.66	.53
74LVQ74SC-ND	Low Voltage Dual D-Type Positive-Edge-Triggered Flip-Flop with Preset and Clear	14-SOIC	.97	.81	.65
74LVQ138SC-ND	Low Voltage Expandable 3/8 Decoder	16-SOIC	1.35	1.13	.90
74LVQ151SC-ND	Low Voltage 8-Input Multiplexer	16-SOIC	1.35	1.13	.90
74LVQ240QSC-ND	Tri-State Octal Inverter Bus/Line Driver	20-SSOP	2.54	2.01	1.62
74LVQ573SC-ND	Low Voltage Tri-State Octal D-Type Latch	20-SOIC	1.63	1.30	.98

FAIRCHILD SEMICONDUCTOR®

74LVX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVX74M-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.45	.36	.27
74LVX74MTCXCT-ND	LV Dual D-Type Pos. Edge-Triggered Flip-Flop* ***NEW!***	14-TSSOP	.49	.40	.27
74LVX74MTCXTR-ND	LV Dual D-Type Pos. Edge-Triggered Flip-Flop* ***NEW!***	14-TSSOP	318.75/2,500		
74LVX125M-ND	Quad Buffer with Tri-State Outputs	14-SOIC	.48	.39	.29
74LVX240M-ND	Tri-State Octal Line Bus/Line Driver	20-SOIC	.72	.54	.41
74LVX244M-ND	3V CMOS Octal Tri-State Buffer	20-SOIC	.53	.40	.30
74LVX244MTCXCT-ND	Tri-State Low Voltage Octal Buffer/Line Driver* ***NEW!***	20-TSSOP	.55	.44	.33
74LVX244MTCXTR-ND	Tri-State Low Voltage Octal Buffer/Line Driver* ***NEW!***	20-TSSOP	371.25/2,500		
74LVX245M-ND	Low Voltage Octal Bidirectional Transceiver	20-SOIC	.53	.40	.30
74LVX245MTCXCT-ND	Low Voltage Octal Bidirectional Transceiver* ***NEW!***	20-TSSOP	.55	.44	.33
74LVX245MTCXTR-ND	Low Voltage Octal Bidirectional Transceiver* ***NEW!***	20-TSSOP	371.25/2,500		
74LVX3245MTC-ND	Tri-St. 8-Bit Dual Supply Translating Transcvr.* ***NEW!***	24-TSSOP	1.14	.95	.76
74LVX4245MTC-ND	Tri-St. 8-Bit Dual Supply Translating Transcvr.* ***NEW!***	24-TSSOP	1.14	.95	.76
74LVX4245MTCXCT-ND	Tri-St. 8-Bit Dual Supply Translating Transcvr.* ***NEW!***	24-TSSOP	1.14	.95	.76
74LVX4245MTCXTR-ND	Tri-St. 8-Bit Dual Supply Translating Transcvr.* ***NEW!***	24-TSSOP	1235.00/2,500		
74LVXC3245MTC-ND	Tri-State 8-Bit Dual Transceiver	24-TSSOP	1.30	1.08	.87

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NEW! 74VCX SERIES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74VCX16244MTDXCT-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.20	1.00	.80
74VCX16244MTDXTR-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	532.00/1,000		
74VCX162244MTDXCT-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	1.26	1.05	.84
74VCX162244MTDXTR-ND	Low Voltage 16-Bit Buffer/Line Driver	48-TSSOP	558.60/1,000		

FAIRCHILD SEMICONDUCTOR®

74C00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74C00N-ND	Quad 2-Input NAND Gate	14-Dip	1.62	1.30	.98
MM74C04N-ND	Hex Inverter (4069)	14-Dip	1.62	1.30	.98
MM74C14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.90	.75	.60
MM74C14N-ND	Hex Schmitt Trigger Inverter (40106B)	14-Dip	.90	.75	.60
MM74C74M-ND	Dual D-Type Flip Flop	14-SOIC	2.28	1.83	1.37
MM74C74N-ND	Dual D-Type Flip Flop	14-Dip	2.28	1.83	1.37
MM74C221N-ND	Dual Monostable with Schmitt Trigger	16-Dip	4.84	3.87	3.01
MM74C244N-ND	Tri-State Octal Buffer	20-Dip	4.78	3.83	2.98
MM74C906M-ND	Hex Open Drain Buffer	14-SOIC	2.32	1.86	1.45
MM74C906N-ND	Open Drain Buffer (Active Pull Down)	14-Dip	2.45	1.96	1.47
MM74C914N-ND	Hex Schmitt Trigger with Extended Input Voltage	14-Dip	3.33	2.67	2.08
MM74C922N-ND	16-Key Encoder	18-Dip	7.44	5.96	5.03
MM74C923N-ND	20-Key Encoder	20-Dip	7.44	5.96	5.03
MM74C923WM-ND	3V to 15V, 20-Key Encoder	20-SOIC	7.44	5.96	5.03
MM74C926N-ND	4-Digit Counter with 7-Segment Output Driver	18-Dip	10.60	9.54	8.46
MM74C928N-ND	4-Digit Counter with 7-Segment Output Driver	18-Dip	9.02	7.22	6.09
MM88C30N-ND	CMOS Dual Line Driver	14-Dip	5.27	4.22	3.56

FAIRCHILD SEMICONDUCTOR®

74HC00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74HC00M-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.33	.23
MM74HC00N-ND	Quad 2-Input NAND Gate	14-Dip	.45	.36	.27
MM74HC02M-ND	Quad 2-Input NOR Gate	14-SOIC	.42	.33	.23
MM74HC02N-ND	Quad 2-Input NOR Gate	14-Dip	.54	.44	.33
MM74HC04M-ND	Hex Inverter	14-SOIC	.42	.33	.23
MM74HC04N-ND	Hex Inverter	14-Dip	.54	.44	.33
MM74HC08M-ND	Quad 2-Input AND Gate	14-SOIC	.42	.33	.23
MM74HC08N-ND	Quad 2-Input AND Gate	14-Dip	.54	.44	.33
MM74HC14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.37	.30	.21
MM74HC14N-ND	Hex Schmitt Trigger Inverter	14-Dip	.48	.38	.29
MM74HC32M-ND	Quad 2-Input OR Gate	14-SOIC	.42	.33	.23
MM74HC32N-ND	Quad 2-Input OR Gate	14-Dip	.54	.44	.33
MM74HC74AM-ND	Dual D-Type Flip Flop with Preset and Clear	14-SOIC	.37	.30	.21
MM74HC74AN-ND	Dual D-Type Flip Flop with Preset and Clear	14-Dip	.57	.46	.35
MM74HC86MXCT-ND	Quad 2-Input Exclusive OR Gate* **NEW!**	14-SOIC	.40	.32	.22
MM74HC86MXTR-ND	Quad 2-Input Exclusive OR Gate* **NEW!**	14-SOIC	242.25/2,500		
MM74HC86N-ND	Quad 2-Input Exclusive OR Gate	14-Dip	.57	.46	.35
MM74HC123AM-ND	Dual Monostable Multivibrator	16-SOIC	.48	.36	.27
MM74HC123AN-ND	Dual Monostable Multivibrator	16-Dip	.56	.42	.32
MM74HC125M-ND	Tri-State Quad Buffer	14-SOIC	.40	.33	.23
MM74HC125N-ND	Tri-State Quad Buffer	14-Dip	.48	.36	.27
MM74HC126M-ND	Tri-State Quad Buffer	14-SOIC	.40	.33	.23
MM74HC126N-ND	Tri-State Quad Buffer	14-Dip	.48	.36	.27
MM74HC132M-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.40	.33	.23
MM74HC132N-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.48	.36	.27
MM74HC138M-ND	3-to-8 Line Decoder	16-SOIC	.50	.40	.30
MM74HC138N-ND	3-to-8 Line Decoder	16-Dip	.62	.47	.36
MM74HC151N-ND	8-Channel Multiplexer	16-Dip	.60	.45	.34
MM74HC154N-ND	4-to-16 Line Decoder (.3" Lead Spacing)	24-Dip	.90	.75	.60
MM74HC154WM-ND	4-to-16 Line Decoder	24-SOIC	.80	.60	.45
MM74HC157MXCT-ND	Quad 2-Input Multiplexer* **NEW!**	16-SOIC	.40	.32	.24
MM74HC157MXTR-ND	Quad 2-Input Multiplexer* **NEW!**	16-SOIC	337.50/2,500		
MM74HC157N-ND	Quad 2-Input Multiplexer	16-Dip	.60	.45	.34
MM74HC164MXCT-ND	8-Bit Serial-In/Parallel-Out Shift Register* **NEW!**	14-SOIC	.50	.40	.30
MM74HC164MXTR-ND	8-Bit Serial-In/Parallel-Out Shift Register* **NEW!**	14-SOIC	371.25/2,500		
MM74HC164N-ND	8-Bit Serial-In Parallel-Out Shift Register	14-Dip	.62	.47	.36
MM74HC165M-ND	8-Bit Parallel-In Serial-Out Shift Register	16-SOIC	.55	.44	.33
MM74HC165N-ND	8-Bit Parallel-In Serial-Out Shift Register	16-Dip	.62	.47	.36
MM74HC174N-ND	Hex D-Type Flip-Flop with Clear	16-Dip	.62	.47	.36
MM74HC175N-ND	Quad D-Type Flip-Flop with Clear	16-Dip	.62	.47	.36
MM74HC240N-ND	Tri-State Octal Inverter Bus/Line Driver	20-Dip	.55	.42	.32
MM74HC240WMXCT-ND	Inverting Octal Tri-State Buffer* **NEW!**	20-SOIC	.51	.41	.29
MM74HC240WMXTR-ND	Inverting Octal Tri-State Buffer* **NEW!**	20-SOIC	238.00/2,000		
MM74HC244N-ND	Tri-State Octal Line Driver	20-Dip	.55	.42	.32
MM74HC244WM-ND	Tri-State Octal Line Driver	20-SOIC	.43	.34	.26
MM74HC245AN-ND	Tri-State Octal Bus Transceiver	20-Dip	.55	.42	.32
MM74HC245AWM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.43	.34	.26
MM74HC251MXCT-ND	8-Channel Tri-State Multiplexer* **NEW!**	16-SOIC	.40	.32	.24
MM74HC251MXTR-ND	8-Channel Tri-State Multiplexer* **NEW!**	16-SOIC	337.50/2,500		
MM74HC251N-ND	8-Channel Tri-State Multiplexer	16-Dip	.60	.45	.34
MM74HC259M-ND	8-Bit Addressable Latch/3-to-8 Line Decoder	16-SOIC	.50	.40	.30
MM74HC259N-ND	8-Bit Addressable Latch/3-to-8 Line Decoder	16-Dip	.62	.47	.36
MM74HC273N-ND	Octal D-Type Flip-Flop	20-Dip	.55	.42	.32
MM74HC273WM-ND	Octal D-Type Flip-Flop	20-SOIC	.43	.34	.26
MM74HC373N-ND	Tri-State Octal D-Type Latch	20-Dip	.55	.42	.32
MM74HC373WM-ND	Tri-State Octal D-Type Latch	20-SOIC	.43	.34	.26
MM74HC374N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.55	.42	.32
MM74HC374WM-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.43	.34	.26
MM74HC393M-ND	Dual 4-Bit Binary Counter	14-SOIC	.50	.38	.29
MM74HC393N-ND	Dual 4-Bit Binary Counter	14-Dip	.55	.42	.32
MM74HC540N-ND	Octal Inverting Buffer and Line Driver	20-Dip	.60	.45	.34
MM74HC541N-ND	Tri-State Octal Buffer	20-Dip	.60	.45	.34
MM74HC541WM-ND	Tri-State Octal Buffer	20-SOIC	.53	.42	.32
MM74HC573N-ND	Tri-State Octal D-Type Latch	20-Dip	.60	.45	.34
MM74HC573WM-ND	Tri-State Octal D-Type Latch	20-SOIC	.53	.42	.32
MM74HC574N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.60	.45	.34
MM74HC574WM-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.53	.42	.32
MM74HC595M-ND	8-Bit Shift Register with Output Latches	16-SOIC	.50	.40	.30
MM74HC595N-ND	8-Bit Shift Register with Output Latches	16-Dip	.54	.41	.31
MM74HC688N-ND	8-Bit Magnitude Comparator (Equality Detector)	20-Dip	.72	.54	.41
MM74HC4040M-ND	12-Stage Binary Counter	16-SOIC	.58	.44	.33
MM74HC4040N-ND	12-Stage Binary Counter	16-Dip	.72	.54	.41
MM74HC4046M-ND	CMOS Phase-Lock-Loop	16-SOIC	.58	.44	.33
MM74HC4046N-ND	CMOS Phase-Lock-Loop	16-Dip	.72	.54	.41
MM74HC4049N-ND	Hex Inverting Logic Level Down Converter	16-Dip	.60	.45	.34
MM74HC4051M-ND	8-Channel Analog Multiplexer	16-SOIC	.52	.39	.30
MM74HC4051N-ND	8-Channel Analog Multiplexer	16-Dip	.82	.62	.46
MM74HC4051WM-ND	8-Channel Analog Multiplexer	16-SOIC	.74	.56	.42
MM74HC4052MXCT-ND	Dual 4-Channel Analog Multiplexer* **NEW!**	16-SOIC	.55	.44	.33
MM74HC4052MXTR-ND	Dual 4-Channel Analog Multiplexer* **NEW!**	16-SOIC	422.50/2,500		
MM74HC4052N-ND	Dual 4-Channel Analog Multiplexer	16-Dip	.82	.62	.46
MM74HC4053M-ND	Triple 2-Channel Analog Multiplexer	16-SOIC	.52	.39	.30
MM74HC4053N-ND	Triple 2-Channel Analog Multiplexer	16-Dip	.82	.62	.46
MM74HC4053WM-ND	Triple 2-Channel Analog Multiplexer	16-SOIC	.74	.56	.42
MM74HC4060M-ND	14-Stage Binary Counter* **NEW!**	16-SOIC	.52	.39	.30
MM74HC4060N-ND	14-Stage Binary Counter	16-Dip	.82	.62	.46
MM74HC4066N-ND	Quad Analog Switch	14-Dip	.80	.60	.45
MM74HC4316N-ND	Quad Analog Switch	16-Dip	.72	.54	.41
MM74HC4316WM-ND	Quad Analog Switch	16-SOIC	.82	.62	.46
MM74HC4514N-ND	4-to-16 Line Decoder with Latch (.3" Lead Spacing)	24-Dip	1.14	.95	.76
MM74HC4538M-ND	Dual Retriggerable Monostable Multivibrator	16-SOIC	.62	.47	.36
MM74HC4538N-ND	Dual Retriggerable Monostable Multivibrator	16-Dip	.72	.54	.41

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FAIRCHILD SEMICONDUCTOR®

74HCT00 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MM74HCT04MXCT-ND	Hex Inverter* **NEW!**	14-SOIC	.38	.30	.22
MM74HCT04MXTR-ND	Hex Inverter* **NEW!**	14-SOIC	234.00/2,500		
MM74HCT04N-ND	Hex Inverter	14-Dip	.54	.44	.33
MM74HCT244N-ND	Tri-State Octal Buffer	20-Dip	.55	.42	.32
MM74HCT244WM-ND	Tri-State Octal Buffer	20-SOIC	.43	.34	.26
MM74HCT245N-ND	Tri-State Octal Bus Transceiver	20-Dip	.55	.42	.32
MM74HCT245WM-ND	Tri-State Octal Bus Transceiver	20-SOIC	.43	.34	.26
MM74HCT373N-ND	Tri-State Octal D-Type Latch	20-Dip	.55	.42	.32
MM74HCT374N-ND	Tri-State Octal D-Type Flip-Flop	20-Dip	.55	.42	.32
MM74HCT541N-ND	Tri-State Octal Buffer	20-Dip	.60	.45	.34

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FAIRCHILD SEMICONDUCTOR®

74VHC SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74VHC00M-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.33	.23
74VHC00MTCXCT-ND	Quad 2-Input NAND Gate* **NEW!**	14-TSSOP	.38	.30	.22
74VHC00MTCXTR-ND	Quad 2-Input NAND Gate* **NEW!**	14-TSSOP	234.00/2,500		
74VHC04M-ND	Hex Inverter	14-SOIC	.42	.33	.23
74VHC04MTCXCT-ND	Hex Inverter* **NEW!**	14-TSSOP	.40	.32	.22
74VHC04MTCXTR-ND	Hex Inverter* **NEW!**	14-TSSOP	234.00/2,500		
74VHC08M-ND	Quad 2-Input AND Gate	14-SOIC	.42	.33	.23
74VHC08MTCXCT-ND	Quad 2-Input AND Gate* **NEW!**	14-TSSOP	.40	.32	.22
74VHC08MTCXTR-ND	Quad 2-Input AND Gate* **NEW!**	14-TSSOP	234.00/2,500		
74VHC14M-ND	Hex Schmitt Trigger Inverter	14-SOIC	.37	.30	.21
74VHC14MTCXCT-ND	Hex Schmitt Inverter* **NEW!**	14-TSSOP	.36	.29	.20
74VHC14MTCXTR-ND	Hex Schmitt Inverter* **NEW!**	14-TSSOP	242.25/2,500		
74VHC32M-ND	Quad 2-Input OR Gate	14-SOIC	.42	.33	.23
74VHC32MTCXCT-ND	Quad 2-Input OR Gate* **NEW!**	14-TSSOP	.38	.30	.22
74VHC32MTCXTR-ND	Quad 2-Input OR Gate* **NEW!**	14-TSSOP	234.00/2,500		
74VHC74M-ND	Dual D-Type Flip-Flop	14-SOIC	.45	.37	.25
74VHC74MTCXCT-ND	Dual D-Type Flip-Flop with Preset and Clear* **NEW!**	14-TSSOP	.36	.29	.20
74VHC74MTCXTR-ND	Dual D-Type Flip-Flop with Preset and Clear* **NEW!**	14-TSSOP	293.25/2,500		
74VHC86M-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.37	.30	.21
74VHC86MTCXCT-ND	Quad 2-Input Exclusive OR Gate* **NEW!**	14-TSSOP	.36	.29	.20
74VHC86MTCXTR-ND	Quad 2-Input Exclusive OR Gate* **NEW!**	14-TSSOP	242.25/2,500		
74VHC123AM-ND	Dual Monostable Multivibrator	16-SOIC	.49	.40	.27
74VHC123AMTCXCT-ND	Dual Retriggerable Monostable Multivibrator* **NEW!**	16-TSSOP	.39	.32	.22
74VHC123AMTCXTR-ND	Dual Retriggerable Monostable Multivibrator* **NEW!**	16-TSSOP	318.75/2,500		
74VHC125MTCXCT-ND	Tri-State Quad Buffer* **NEW!**	14-TSSOP	.39	.32	.22
74VHC125MTCXTR-ND	Tri-State Quad Buffer* **NEW!**	14-TSSOP	318.75/2,500		
74VHC139M-ND	Dual 2-to-4 Decoder/Demultiplexer	16-SOIC	.48	.36	.27
74VHC157MTC-ND	Quad 2-Input Multiplexer	16-TSSOP	.48	.36	.27
74VHC244M-ND	Tri-State Octal Non-Inverting Buffer/Line Driver	20-SOIC	.43	.34	.26
74VHC244MTCXCT-ND	Tri-State Octal Buffer/Line Driver* **NEW!**	20-TSSOP	.49	.40	.27
74VHC244MTCXTR-ND	Tri-State Octal Buffer/Line Driver* **NEW!**	20-TSSOP	286.88/2,500		
74VHC245MTCXCT-ND	Tri-State Octal Bidirectional Transceiver* **NEW!**	20-TSSOP	.49	.40	.27
74VHC245MTCXTR-ND	Tri-State Octal Bidirectional Transceiver* **NEW!**	20-TSSOP	286.88/2,500		
74VHC273MTCXCT-ND	Octal D-Type Flip-Flop* **NEW!**	20-TSSOP	.49	.40	.27
74VHC273MTCXTR-ND	Octal D-Type Flip-Flop* **NEW!**	20-TSSOP	286.88/2,500		
74VHC373M-ND	Tri-State Octal D-Type Latch	20-SOIC	.43	.34	.26
74VHC374MTC-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.43	.34	.26
74VHC393M-ND	Dual 4-Bit Binary Counter	14-SOIC	.76	.57	.43
74VHC393MTC-ND	Dual 4-Bit Binary Counter	14-SSOP	.76	.57	.43
74VHC541MTC-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.50	.40	.30
74VHC573M-ND	Tri-State Octal D-Type Latch	20-SOIC	.50	.40	.30
74VHC573MTCXCT-ND	Tri-State Octal D-Type Latch* **NEW!**	20-TSSOP	.45	.36	.27
74VHC573MTCXTR-ND	Tri-State Octal D-Type Latch* **NEW!**	20-TSSOP	337.50/2,500		
74VHC574MTC-ND	Tri-State Octal D-Type Flip-Flop	20-TSSOP	.50	.40	.30
74VHC595M-ND	8-Bit Shift Register with Output Latches	16-SOIC	.54	.44	.33
74VHC595MTCXCT-ND	8-Bit Shift Register with Output Latches* **NEW!**	16-TSSOP	.45	.36	.27
74VHC595MTCXTR-ND	8-Bit Shift Register with Output Latches* **NEW!**	16-TSSOP	303.75/2,500		

* *RoHS Compliant*

FAIRCHILD SEMICONDUCTOR®

NEW! 74VHCT SERIES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
74VHCT08AMTCXCT-ND	Quad 2-Input AND Gate	14-TSSOP	.38	.30	.22
74VHCT08AMTCXTR-ND	Quad 2-Input AND Gate	14-TSSOP	234.00/2,500		
74VHCT244AMTCXCT-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.40	.32	.24
74VHCT244AMTCXTR-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	286.88/2,500		
74VHCT245AMTCXCT-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	.40	.32	.24
74VHCT245AMTCXTR-ND	Tri-State Octal Buffer/Line Driver	20-TSSOP	286.88/2,500		

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

74ABT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ABT125CSC-ND	Tri-State Quad Buffer	14-SOIC	.48	.36	.27
74ABT241CMSA-ND	Tri-State Octal Line Driver	20-SSOP	.90	.75	.60
74ABT244CMSA-ND	Tri-State Octal Buffer/Line Driver	20-SSOP	.90	.75	.60
74ABT244CSC-ND	Tri-State Octal Line Driver	20-SOIC	.72	.54	.41
74ABT245CSC-ND	Tri-State Octal Bus Transceiver	20-SOIC	.72	.54	.41
74ABT273CMSA-ND	Octal D-Type Flip-Flop	20-SSOP	.90	.75	.60
74ABT541CSC-ND	Tri-State Octal Buffer/Line Driver	20-SOIC	.90	.75	.60
74ABT16244CSSC-ND	16-Bit, Tri-State Buffer/Line Driver	48-SSOP	1.14	.95	.76
74ABT16245CSSC-ND	16-Bit, Tri-State Bidirectional Transceiver	48-SSOP	1.14	.95	.76
74ABT16373CSSC-ND	16-Bit, D-Type Latch with Tri-State Outputs	48-SSOP	1.35	1.13	.90
74ABT16374CSSC-ND	16-Bit, D-Type Flip-Flop with Tri-State Outputs	48-SSOP	1.35	1.13	.90
74ABT2244CMSA-ND	Octal Buffer Line Driver with Series Resistor Included	20-SSOP	.90	.75	.60
74ABT2244CSC-ND	Octal Buffer Line Driver with Series Resistor Included	20-SOIC	.72	.54	.41

FACT™ ADVANCED CMOS TECHNOLOGY 74AC

These are high speed CMOS devices with CMOS input switching levels and buffered CMOS outputs.

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74AC00PC-ND	Quad 2-Input NAND Gate	14-Dip	.49	.40	.27
74AC00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.39	.32	.22
74AC02PC-ND	Quad 2-Input NOR Gate	14-Dip	.50	.41	.28
74AC02SC-ND	Quad 2-Input NOR Gate	14-SOIC	.39	.32	.22
74AC04PC-ND	Hex Inverter	14-Dip	.49	.40	.27
74AC04SC-ND	Hex Inverter	14-SOIC	.39	.32	.22
74AC08PC-ND	Quad 2-Input AND Gate	14-Dip	.49	.40	.27
74AC08SC-ND	Quad 2-Input AND Gate	14-SOIC	.39	.32	.22
74AC11SC-ND	Triple 3-Input AND Gate	14-SOIC	.39	.32	.22
74AC14PC-ND	Hex Schmitt Trigger Inverter	14-Dip	.55	.44	.33
74AC14SC-ND	Hex Schmitt Trigger Inverter	14-SOIC	.46	.37	.26
74AC20PC-ND	Dual 4-Input NAND Gate	14-Dip	.51	.41	.29
74AC20SCXCT-ND	Dual 4-Input NAND Gate* ***NEW!***	14-SOIC	.39	.32	.22
74AC20SCXTR-ND	Dual 4-Input NAND Gate* ***NEW!***	14-SOIC	255.00/2,500		
74AC32PC-ND	Quad 2-Input OR Gate	14-Dip	.49	.40	.27
74AC32SC-ND	Quad 2-Input OR Gate	14-SOIC	.39	.32	.22
74AC74PC-ND	Dual D-Type Flip-Flop with Set and Reset	14-Dip	.55	.44	.33
74AC74SC-ND	Dual D-Type Flip-Flop with Set and Reset	14-SOIC	.46	.37	.26
74AC86SC-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.46	.37	.26
74AC109SC-ND	Dual JK Positive-Edge-Triggered Flip-Flop	16-SOIC	.48	.39	.29
74AC125SC-ND	Tri-State Quad Buffer	14-SOIC	.48	.39	.29
74AC138PC-ND	1-of-8 Decoder/Demultiplexer	16-Dip	.52	.39	.30
74AC138SC-ND	1-of-8 Decoder/Demultiplexer	16-SOIC	.57	.46	.35
74AC139SC-ND	Dual 1-of-4 Decoder/Demultiplexer	16-SOIC	.57	.46	.35
74AC151PC-ND	8-Input Fact Multiplexer	16-Dip	.52	.39	.30
74AC151SC-ND	8-Input Fact Multiplexer	16-SOIC	.48	.38	.29
74AC161PC-ND	Synchronous Presettable 4-Bit Binary Counter	16-Dip	.56	.42	.32
74AC161SC-ND	Synchronous Presettable 4-Bit Binary Counter	16-SOIC	.48	.36	.27
74AC174SC-ND	Hex D-Type Flip-Flop	16-SOIC	.48	.36	.27
74AC175SC-ND	Quad D-Type Flip-Flop	16-SOIC	.48	.36	.27
74AC244SC-ND	Octal Buffer/Line Driver	20-SOIC	.53	.42	.32
74AC245SC-ND	Octal Bidirectional Transceiver	20-SOIC	.53	.42	.32
74AC251SCXCT-ND	Tri-State Output 8-Input Multiplexer* ***NEW!***	16-SOIC	.45	.36	.27
74AC251SCXTR-ND	Tri-State Output 8-Input Multiplexer* ***NEW!***	16-SOIC	320.63/2,500		
74AC257SC-ND	Quad 2-Input Multiplexer	16-SOIC	.48	.38	.29
74AC541SC-ND	Octal Buffer/Line Driver	20-SOIC	.56	.42	.32
74AC273SC-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.53	.42	.32
74AC299SC-ND	Octal Shift/Storage	20-SOIC	.94	.71	.53
74AC373SC-ND	Octal D-Type Latch	20-SOIC	.53	.42	.32
74AC521SC-ND	8-Bit Comparator	20-SOIC	.56	.42	.32
74AC540SC-ND	Octal Buffer/Line Driver with Tri-State Output	20-SOIC	.56	.42	.32
74AC541PC-ND	Octal Buffer/Line Driver with Tri-State Output	20-Dip	.64	.48	.36

* ***RoHS Compliant***

74LVT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVT244MTCXCT-ND	Tri-State Low Voltage Octal Buffer/Line Driver* ***NEW!***	20-TSSOP	.58	.46	.35
74LVT244MTCXTR-ND	Tri-State Low Voltage Octal Buffer/Line Driver* ***NEW!***	20-TSSOP	422.50/2,500		
74LVT244WMXCT-ND	Tri-State Low Voltage Octal Buffer/Line Driver* ***NEW!***	20-SOIC	.58	.46	.35
74LVT244WMXTR-ND	Tri-State Low Voltage Octal Buffer/Line Driver* ***NEW!***	20-SOIC	345.80/2,000		
74LVT245MTC-ND	Tri-State Octal Bi-Directional Transceiver	20-TSSOP	.52	.39	.30
74LVT16244MTDXCT-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver* ***NEW!***	48-TSSOP	.92	.69	.52
74LVT16244MTDXTR-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver* ***NEW!***	48-TSSOP	332.50/1,000		
74LVT16245MTDXCT-ND	Tri-State Low Voltage 16-Bit Transceiver* ***NEW!***	48-SSOP	.92	.69	.52
74LVT16245MTDXTR-ND	Tri-State Low Voltage 16-Bit Transceiver* ***NEW!***	48-SSOP	332.50/1,000		

* ***RoHS Compliant***

74LVTH SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74LVTH125MTCXCT-ND	Tri-State Low Voltage Quad Buffer* ***NEW!***	14-TSSOP	.45	.36	.27
74LVTH125MTCXTR-ND	Tri-State Low Voltage Quad Buffer* ***NEW!***	14-TSSOP	303.75/2,500		
74LVTH125MXCT-ND	Tri-State Low Voltage Quad Buffer* ***NEW!***	14-SOIC	.45	.36	.27
74LVTH125MXTR-ND	Tri-State Low Voltage Quad Buffer* ***NEW!***	14-SOIC	303.75/2,500		
74LVTH244MTC-ND	Low Voltage Tri-State Octal Buffer/Line Driver	20-TSSOP	.52	.39	.30
74LVTH162244MTXCT-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver* ***NEW!***	48-TSSOP	.92	.69	.52
74LVTH162244MTXTR-ND	Tri-State Low Voltage 16-Bit Buffer/Line Driver* ***NEW!***	48-TSSOP	332.50/1,000		
74LVTH162245MTXCT-ND	Tri-State Low Voltage 16-Bit Transceiver* ***NEW!***	48-TSSOP	.92	.69	.52
74LVTH162245MTXTR-ND	Tri-State Low Voltage 16-Bit Transceiver* ***NEW!***	48-TSSOP	332.50/1,000		
74LVTH16373MTDXCT-ND	Tri-State LV 16-Bit Transparent Latch* ***NEW!***	48-TSSOP	.92	.69	.52
74LVTH16373MTDXTR-ND	Tri-State LV 16-Bit Transparent Latch* ***NEW!***	48-TSSOP	332.50/1,000		
74LVTH16244MTD-ND	16-Bit, Tri-State, Low Voltage Buffer/Line Driver	48-TSSOP	.75	.63	.50
74LVTH16245MEA-ND	16-Bit, Tri-State, Low Voltage Transceiver	48-SSOP	1.02	.85	.68
74LVTH16245MTD-ND	16-Bit, Tri-State, Low Voltage Transceiver	48-TSSOP	.75	.63	.50

* ***RoHS Compliant***

74ACQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ACQ544SC-ND	Tri-State Octal Inverting Registered Transceiver	20-SOIC	5.49	4.44	3.59
74ACQ646SC-ND	Tri-State Octal Transceiver Register	24-SOIC	6.32	5.06	4.27

74ACT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ACT00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.42	.35	.24
74ACT02SC-ND	Quad 2-Input NOR Gate	14-SOIC	.45	.36	.27
74ACT04PC-ND	Hex Inverter	14-Dip	.49	.40	.27
74ACT04SC-ND	Hex Inverter	14-SOIC	.42	.35	.24
74ACT08SC-ND	Quad 2-Input AND Gate	14-SOIC	.39	.32	.22
74ACT32SC-ND	Quad 2-Input OR Gate	14-SOIC	.39	.32	.22
74ACT74PC-ND	Dual D-Type Positive-Edge-Trigger Flip-Flop	14-Dip	.55	.44	.33
74ACT74SC-ND	Dual D-Type Positive-Edge-Trigger Flip-Flop	14-SOIC	.46	.37	.26
74ACT109SC-ND	Dual JK Flip-Flop	16-SOIC	.48	.39	.29
74ACT125MTCXCT-ND	Tri-State Outputs Quad Buffer* ***NEW!***	14-TSSOP	.40	.32	.24
74ACT125MTCXTR-ND	Tri-State Outputs Quad Buffer* ***NEW!***	14-TSSOP	270.00/2,500		
74ACT125SC-ND	Tri-State Quad Buffer	14-SOIC	.48	.39	.29
74ACT138SC-ND	1-of-8 Decoder/Demultiplexer	16-SOIC	.48	.38	.29
74ACT151PC-ND	8-Input Multiplexer	16-Dip	.52	.39	.30
74ACT157PC-ND	Quad 2-Input Multiplexer	16-Dip	.52	.39	.30
74ACT157SC-ND	Quad 2-Input Multiplexer	16-SOIC	.48	.38	.29
74ACT161SC-ND	Synchronous Presettable Binary Counter	16-SOIC	.48	.36	.27
74ACT163PC-ND	4-Bit Binary Counter Synchronous Receiver	16-Dip	.56	.42	.32
74ACT174SC-ND	Hex D-Type Flip-Flop with Master Reset	16-SOIC	.48	.36	.27
74ACT175SC-ND	Quad D-Type Flip-Flop	16-SOIC	.48	.36	.27
74ACT244MTCXCT-ND	Tri-State Outputs Octal Buffer/Line Driver* ***NEW!***	20-TSSOP	.48	.38	.29
74ACT244MTCXTR-ND	Tri-State Outputs Octal Buffer/Line Driver* ***NEW!***	20-TSSOP	354.38/2,500		
74ACT244PC-ND	Octal Buffer/Line Driver	20-Dip	.58	.44	.33
74ACT244SC-ND	Octal Buffer/Line Driver	20-SOIC	.53	.42	.32
74ACT245MTCXCT-ND	Tri-State I/O Octal Bidirectional Transceiver* ***NEW!***	20-TSSOP	.45	.36	.27
74ACT245MTCXTR-ND	Tri-State I/O Octal Bidirectional Transceiver* ***NEW!***	20-TSSOP	354.38/2,500		
74ACT245SC-ND	Octal Bidirectional Transceiver	20-SOIC	.53	.42	.32
74ACT251PC-ND	8-Bit Multiplexer	16-Dip	.52	.39	.30
74ACT251SC-ND	8-Bit Multiplexer	16-SOIC	.48	.38	.29
74ACT373SC-ND	Octal Transparent Latch	20-SOIC	.53	.42	.32
74ACT374SC-ND	Octal D-Type Flip-Flop	20-SOIC	.53	.42	.32
74ACT520SC-ND	Comparator with Resistor	20-SOIC	.56	.42	.32
74ACT573PC-ND	Tri-State Octal D-Type Latch	20-Dip	.64	.48	.36
74ACT574SC-ND	Tri-State Octal D-Type Flip-Flop	20-SOIC	.56	.42	.32
74ACT899QC-ND	9-Bit Bidirectional Latch	28-PLCC	7.58	6.07	5.12
74ACT1284MSA-ND	IEEE 1284 Transceiver	20-SSOP	1.44	1.20	.96

* ***RoHS Compliant***

NM95HS HIGH SECURITY SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NM95HS01EM-ND	Rolling Code Generator High Temp (RC OSC)	14-SOIC	3.12	2.52	2.04
NM95HS01EM8-ND	Rolling Code Generator High Temp (RC OSC)	8-SOIC	4.29	3.47	2.81
NM95HS01N-ND	Rolling Code Generator (RC OSC)	8-Dip	3.90	3.15	2.55
NM95HS01N14-ND	Rolling Code Generator (RC OSC)	14-Dip	3.90	3.15	2.55
NM95HS02EN-ND	Rolling Code Generator High Temp (XTAL OSC)	8-Dip	4.29	3.47	2.81
NM95HS02N-ND	Rolling Code Generator (XTAL OSC)	8-Dip	3.90	3.15	2.55
NM95HS02N14-ND	Rolling Code Generator (XTAL OSC)	14-Dip	3.90	3.15	2.55

74ACTQ SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74ACTQ00SC-ND	Quad 2-Input NAND Gate, Quiet Series	14-SOIC	1.01	.84	.68
74ACTQ10PC-ND	Triple 3-Input NAND Gate, Quiet Series	14-Dip	1.20	.62	.47
74ACTQ14SC-ND	Hex Schmitt Trigger Inverting, Quiet Series	14-SOIC	1.01	.84	.68
74ACTQ16245SSC-ND	Tri-State Output 16-Bit Transceiver* ***NEW!***	48-SSOP	3.38	2.70	2.10
74ACTQ245SC-ND	Octal Bidirectional Transceiver, Quiet Series	20-SOIC	1.89	1.52	1.14
74ACTQ273SC-ND	Octal D-Type Flip-Flop	20-SOIC	1.89	1.52	1.14
74ACTQ16244SSC-ND	16-Bit Buffer/Line Driver	48-SSOP	4.05	3.24	2.52
74ACTQ16374SSC-ND	16-Bit D-Type Flip-Flop	48-SSOP	4.05	3.24	2.52

* ***RoHS Compliant***

74F – FAST™ ADVANCED SCHOTTKY TTL LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74F00PC-ND	Quad 2-Input NAND Gate	14-Dip	.55	.44	.33
74F00SC-ND	Quad 2-Input NAND Gate	14-SOIC	.43	.34	.26
74F04PC-ND	Hex Inverter	14-Dip	.55	.44	.33
74F04SC-ND	Hex Inverter	14-SOIC	.43	.34	.26
74F08PC-ND	Quad 2-Input AND Gate	14-Dip	.55	.44	.33
74F08SC-ND	Quad 2-Input AND Gate	14-SOIC	.43	.34	.26
74F14SC-ND	Hex Inverter Schmitt Trigger	14-SOIC	.48	.38	.29
74F32SC-ND	Quad 2 Input OR Gate	14-SOIC	.43	.34	.26
74F38SC-ND	Quad 2-Input NAND Buffer	14-SOIC	.48	.38	.29
74F74PC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-Dip	.48	.36	.27
74F74SC-ND	Dual D-Type Positive-Edge-Triggered Flip-Flop	14-SOIC	.48	.38	.29
74F86SC-ND	Quad 2-Input Exclusive OR Gate	14-SOIC	.52	.40	.30
74F109PC-ND	Dual JK Positive-Edge-Triggered Flip-Flop	16-Dip	.77	.58	.44
74F112PC-ND	Dual JK Negative-Edge-Triggered Flip-Flop	16-Dip	.81	.61	.46
74F125PC-ND	Tri-State Quad Buffer	14-Dip	.58	.44	.33
74F125SC-ND	Tri-State Quad Buffer	14-SOIC	.50	.38	.29
74F138PC-ND	1-of-8 Decoder/Demultiplexer	16-Dip	.58	.44	.33
74F157ASC-ND	Quad 2-Input Multiplexer	16-SOIC	.52	.39	.30
74F161APC-ND	Synchronous Presettable 4-Bit Binary Counter	16-Dip	.76	.57	.43
74F175SC-ND	Quad D-Type Flip-Flop	16-SOIC	.68	.51	.39

(Continued)

74F – FAST™ ADVANCED SCHOTTKY TTL LOGIC *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
74F189SC-ND	64-Bit Random Access Memory	16-SOIC	4.00	3.24	2.62
74F244PC-ND	Tri-State Octal Line Driver	20-Dip	.80	.60	.45
74F244SC-ND	Tri-State Octal Line Driver	20-SOIC	.68	.51	.39
74F245PC-ND	Tri-State Octal Bus Transceiver	20-Dip	.76	.57	.43
74F245SC-ND	Tri-State Octal Bus Transceiver	20-SOIC	.68	.51	.39
74F258APC-ND	Tri-State Quad 2/1 Multiplexer	16-Dip	.57	.43	.33
74F269SPC-ND	8-Bit Up/Down Counter	24-Dip	1.80	1.44	1.08
74F273PC-ND	Octal D-Type Flip-Flop	20-Dip	.80	.60	.45
74F373PC-ND	Octal Transparent Latch	20-Dip	.82	.69	.55
74F373SC-ND	Octal Transparent Latch	20-SOIC	.64	.48	.36
74F374SC-ND	Octal D-Type Flip-Flop	20-SOIC	.68	.51	.39
74F541SC-ND	Octal Buffer/Line Driver	20-SOIC	.87	.73	.58
74F543PC-ND	Octal Registered Transceiver	24-Dip	1.26	1.05	.84
74F552QC-ND	Octal Bidirectional Transceiver	28-PLCC	9.45	7.57	6.31
74F573SC-ND	Octal D-Type Latch	20-SOIC	.83	.69	.56
74F574SC-ND	Octal D-Type Flip-Flop	20-SOIC	.87	.73	.58
74F579PC-ND	8-Bit Bidirectional Counter	20-Dip	2.34	1.88	1.41
74F620PC-ND	Inverting Octal Transceiver	20-Dip	.83	.66	.50
74F646BSPC-ND	Octal Bus Transceiver	24-Dip	2.15	1.72	1.29
74F675APC-ND	16-Bit Serial-In, Serial/Parallel-Out Shift Register	24-Dip	9.66	8.70	7.72
74F676PC-ND	16-Bit Serial/Parallel-In, Serial-Out Shift Register	24-Dip	5.35	4.29	3.62
74F823SC-ND	9-Bit D-Type Flip-Flop	24-SOIC	2.60	2.08	1.56

4000 SERIES CMOS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CD4001BCM-ND	Quad 2-Input NOR Gate	14-SOIC	.44	.36	.25
CD4001BCN-ND	Quad 2-Input NOR Gate	14-Dip	.48	.36	.27
CD4011BCM-ND	Quad 2-Input NAND Gate	14-SOIC	.51	.41	.29
CD4011BCN-ND	Quad 2-Input NAND Gate	14-Dip	.48	.36	.27
CD4013BCM-ND	Dual D-Type Flip-Flop	14-SOIC	.46	.37	.26
CD4013BCN-ND	Dual D-Type Flip-Flop	14-Dip	.48	.36	.27
CD4016BCM-ND	Quad Bilateral Switch	14-SOIC	.44	.36	.25
CD4016BCN-ND	Quad Bilateral Switch	14-Dip	.48	.36	.27
CD4047BCN-ND	Monostable Multivibrator	14-Dip	.58	.44	.33
CD4049UBCM-ND	Hex Inverting Buffer	16-SOIC	.43	.34	.26
CD4049UBCN-ND	Hex Inverting Buffer* ***NEW!***	16-PDip	.48	.36	.27
CD4050BCN-ND	Hex Buffer	16-Dip	.62	.47	.35
CD4051BCM-ND	8-Channel Analog Mux/Demux	16-SOIC	.57	.46	.35
CD4051BCN-ND	8-Channel Analog Mux/Demux	16-Dip	.72	.54	.41
CD4052BCM-ND	4-Channel Analog Mux/Demux	16-SOIC	.57	.46	.35
CD4052BCN-ND	4-Channel Analog Mux/Demux	16-Dip	.72	.54	.41
CD4053BCM-ND	Triple 2-Channel Analog Mux/Demux	16-SOIC	.57	.46	.35
CD4053BCN-ND	Triple 2-Channel Analog Mux/Demux	16-Dip	.72	.54	.41
CD4060BCM-ND	14-Bit Binary Counter/Oscillator	16-SOIC	.49	.40	.30
CD4060BCN-ND	14-Bit Binary Counter/Oscillator	16-Dip	.72	.54	.41
CD4066BCM-ND	Quad Bilateral Switch	14-SOIC	.42	.35	.24
CD4066BCN-ND	Quad Bilateral Switch	14-Dip	.48	.36	.27
CD4069UBCM-ND	Inverter Circuits	14-SOIC	.40	.33	.23
CD4093BCM-ND	Quad 2-Input NAND Schmitt Trigger	14-SOIC	.42	.34	.26
CD4093BCN-ND	Quad 2-Input NAND Schmitt Trigger	14-Dip	.48	.36	.27
CD4094BCN-ND	8-Bit Shift Register with Latch	16-Dip	3.31	2.65	2.06
CD4538BCN-ND	Dual Monostable Multivibrator	16-Dip	.72	.54	.41
CD4541BCN-ND	Programmable Timer	14-Dip	.60	.45	.34
CD4724BCN-ND	8-Bit Addressable Latch	16-Dip	.72	.54	.41
CD40106BCM-ND	Hex Schmitt Trigger* ***NEW!***	14-SOIC	.42	.35	.24
CD40106BCMXCT-ND	Hex Schmitt Trigger* ***NEW!***	14-SOIC	.39	.32	.22
CD40106BCMXTR-ND	Hex Schmitt Trigger* ***NEW!***	14-SOIC	276.25/2,500		
CD40106BCN-ND	Hex Schmitt Trigger	14-Dip	.48	.36	.27
CD40174BCN-ND	Hex D-Type Flip-Flop	16-Dip	3.31	2.65	2.06

* *RoHS Compliant*

FMS SERIES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
FMS6246MTC20XCT-ND	6-Channel, 6th Order SD/PS Video Filter Driver	20-TSSOP	.99	.83	.66
FMS6246MTC20XTR-ND	6-Channel, 6th Order SD/PS Video Filter Driver	20-TSSOP	1072.50/2,500		
FMS6346MTC20XCT-ND	6-Channel, 6th Order SD/HD Video Filter Driver	20-TSSOP	1.68	1.40	1.12
FMS6346MTC20XTR-ND	6-Channel, 6th Order SD/HD Video Filter Driver	20-TSSOP	1820.00/2,500		
FMS6400CS1XCT-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	1.74	1.45	1.16
FMS6400CS1XTR-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	1885.00/2,500		
FMS6400CSXCT-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	1.74	1.45	1.16
FMS6400CSXTR-ND	2-Channel, Video Driver with Integrated Filters	8-SOIC	1885.00/2,500		
FMS6501MSA28XCT-ND	12-Input, 9-Output Video Switch Matrix	28-SSOP	4.50	3.60	2.80
FMS6501MSA28XTR-ND	12-Input, 9-Output Video Switch Matrix	28-SSOP	5100.00/2,000		
FMS6690MTC20XCT-ND	6-Channel, 6th Order SD/PS/HD Video Filter Driver	20-TSSOP	2.85	2.38	1.90
FMS6690MTC20XTR-ND	6-Channel, 6th Order SD/PS/HD Video Filter Driver	20-TSSOP	3087.50/2,500		

LINEAR ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
FAN1086M-ND	Adjustable, 1.5A LDO Linear Regulator	TO-263	1.02	.85	.68
FAN1086M5-ND	5V, 1.5A Fixed LDO Linear Regulator	TO-263	1.02	.85	.68
FAN1086M33-ND	3.3V, 1.5A Fixed LDO Linear Regulator	TO-263	1.02	.85	.68
FAN1086M285-ND	2.85V, 1.5A Fixed LDO Linear Regulator	TO-263	1.02	.85	.68
FAN2001MPXCT-ND	Adj., 1A High-Eff. Step-Down DC/DC Converter*	6-MLP	1.38	1.10	.83
FAN2001MPXTR-ND	Adj., 1A High-Eff. Step-Down DC/DC Converter*	6-MLP	2112.00/3,000		
FAN2002MPXCT-ND	Adj., 1A High-Eff. Step-Down DC/DC Converter*	6-MLP	1.43	1.14	.86
FAN2002MPXTR-ND	Adj., 1A High-Eff. Step-Down DC/DC Converter*	6-MLP	2188.80/3,000		
FAN2500SXCT-ND	Adjustable, 100mA, CMOS LDO Regulator	SOT-23-5	.72	.54	.41
FAN2500SXTR-ND	Adjustable, 100mA, CMOS LDO Regulator	SOT-23-5	819.00/3,000		
FAN2500S25XCT-ND	2.5V, 100mA, CMOS LDO Regulator	SOT-23-5	.72	.54	.41
FAN2500S25XTR-ND	2.5V, 100mA, CMOS LDO Regulator	SOT-23-5	721.50/3,000		
FAN2500S28XCT-ND	2.8V, 100mA, CMOS LDO Regulator	SOT-23-5	.72	.54	.41
FAN2500S28XTR-ND	2.8V, 100mA, CMOS LDO Regulator	SOT-23-5	819.00/3,000		
FAN2500S30XCT-ND	3.0V, 100mA, CMOS LDO Regulator	SOT-23-5	.72	.54	.41
FAN2500S30XTR-ND	3.0V, 100mA, CMOS LDO Regulator	SOT-23-5	819.00/3,000		
FAN2500S33XCT-ND	3.3V, 100mA, CMOS LDO Regulator	SOT-23-5	.72	.54	.41
FAN2500S33XTR-ND	3.3V, 100mA, CMOS LDO Regulator	SOT-23-5	819.00/3,000		
FAN5037MXCT-ND	Adjustable Switching Regulator Controller*	8-SOIC	1.50	1.20	.90
FAN5037MXTR-ND	Adjustable Switching Regulator Controller*	8-SOIC	1920.00/2,500		
FAN5059MXCT-ND	High Perf. Programmable Sync. DC/DC Controller for Multi-Voltage Platforms*	24-SOIC	2.32	1.86	1.45
FAN5059MXTR-ND	High Perf. Programmable Sync. DC/DC Controller for Multi-Voltage Platforms*	24-SOIC	1311.98/1,000		
FAN5066MXCT-ND	Ultra Low Voltage Sync. DC/DC Controller*	20-SOIC	2.23	1.79	1.34
FAN5066MXTR-ND	Ultra Low Voltage Sync. DC/DC Controller*	20-SOIC	1160.90/1,000		
FAN5068MPXCT-ND	DDR-1/DDR-2 Plus ACPI Regulator*	24-MLP	2.13	1.70	1.28
FAN5068MPXTR-ND	DDR-1/DDR-2 Plus ACPI Regulator*	24-MLP	3264.00/3,000		
FAN5092MTCXCT-ND	High Current System Voltage Buck Converter*	28-TSSOP	4.50	3.60	2.80
FAN5092MTCXTR-ND	High Current System Voltage Buck Converter*	28-TSSOP	6300.00/2,500		
FAN5094MTCXCT-ND	Multi-Phase Interleaved Buck Converter*	28-TSSOP	4.50	3.60	2.80
FAN5094MTCXTR-ND	Multi-Phase Interleaved Buck Converter*	28-TSSOP	6300.00/2,500		
FAN5230QSCXCT-ND	System Electronics Regulator for Mobile PCs*	24-QSOP	2.81	2.25	1.75
FAN5230QSCXTR-ND	System Electronics Regulator for Mobile PCs*	24-QSOP	3937.50/2,500		
FAN5235QSCXCT-ND	System Electronics Regulator for Mobile PCs*	24-QSOP	3.71	2.97	2.31
FAN5235QSCXTR-ND	System Electronics Regulator for Mobile PCs*	24-QSOP	5197.50/2,500		
FAN5240MTCXCT-ND	Single Output 2-Phase Sync. Buck Controller*	28-TSSOP	4.05	3.24	2.52
FAN5240MTCXTR-ND	Single Output 2-Phase Sync. Buck Controller*	28-TSSOP	5670.00/2,500		
FAN5240QSCXCT-ND	Single Output 2-Phase Sync. Buck Controller*	28-QSOP	3.51	2.81	2.19
FAN5240QSCXTR-ND	Single Output 2-Phase Sync. Buck Controller*	28-QSOP	4914.00/2,500		
FAN5250QSCXCT-ND	Mobile Processor Core Voltage Regulator*	24-QSOP	3.38	2.70	2.10
FAN5250QSCXTR-ND	Mobile Processor Core Voltage Regulator*	24-QSOP	4725.00/2,500		
FAN5307S18XCT-ND	High Efficiency Step-Down DC/DC Converter*	SOT-23-5	1.63	1.30	.98
FAN5307S18XTR-ND	High Efficiency Step-Down DC/DC Converter*	SOT-23-5	2496.00/3,000		
FAN5331SXCT-ND	High Efficiency Serial LED Driver and OLED Supply with 20V Integrated Switch*	SOT-23-5	1.59	1.33	1.06
FAN5331SXTR-ND	High Efficiency Serial LED Driver and OLED Supply with 20V Integrated Switch*	SOT-23-5	2067.00/3,000		
FAN5601MP13XCT-ND	1.3V, Regulated Step-Down Charge Pump DC/DC Converter*	6-MLP	2.00	1.60	1.20
FAN5601MP13XTR-ND	1.3V, Regulated Step-Down Charge Pump DC/DC Converter*	6-MLP	3072.00/3,000		
FAN5601MP18XCT-ND	1.8V, Regulated Step-Down Charge Pump DC/DC Converter*	6-MLP	2.00	1.60	1.20
FAN5601MP18XTR-ND	1.8V, Regulated Step-Down Charge Pump DC/DC Converter*	6-MLP	3072.00/3,000		
FAN5602MP45XCT-ND	4.5V, Universal Charge Pump Regulated DC/DC Converter*	8-MLP	2.00	1.60	1.20
FAN5602MP45XTR-ND	4.5V, Universal Charge Pump Regulated DC/DC Converter*	8-MLP	3072.00/3,000		
FAN5602MP5XCT-ND	5V, Universal Charge Pump Regulated DC/DC Converter*	8-MLP	2.00	1.60	1.20
FAN5602MP5XTR-ND	5V, Universal Charge Pump Regulated DC/DC Converter*	8-MLP	3072.00/3,000		
FAN5606DMPXCT-ND	Serial LED Driver with Current-Regulated, Step-Up DC/DC Converter*	8-MLP	1.80	1.44	1.08
FAN5606DMPXTR-ND	Serial LED Driver with Current-Regulated, Step-Up DC/DC Converter*	8-MLP	2764.80/3,000		
FAN5607HMPXCT-ND	LED Driver with Adaptive Charge Pump DC/DC Converter*	16-MLP	2.00	1.60	1.20
FAN5607HMPXTR-ND	LED Driver with Adaptive Charge Pump DC/DC Converter*	16-MLP	3072.00/3,000		
FAN5608DHMPXCT-ND	Serial/Parallel LED Driver with Current Regulated, Step-Up DC/DC Converter, Internal Diode*	12-MLP	2.45	1.96	1.47
FAN5608DHMPXTR-ND	Serial/Parallel LED Driver with Current Regulated, Step-Up DC/DC Converter, Internal Diode*	12-MLP	3763.20/3,000		
FAN5608DMPXCT-ND	Serial/Parallel LED Driver with Current Regulated, Step-Up DC/DC Converter, Internal Diode*	8-MLP	2.45	1.96	1.47
FAN5608DMPXTR-ND	Serial/Parallel LED Driver with Current Regulated, Step-Up DC/DC Converter, Internal Diode*	8-MLP	3763.20/3,000		
FAN5608HMPXCT-ND	Serial/Parallel LED Driver with Current Regulated, Step-Up DC/DC Converter, External Diode*	12-MLP	2.40	1.92	1.44
FAN5608HMPXTR-ND	Serial/Parallel LED Driver with Current Regulated, Step-Up DC/DC Converter, External Diode*	12-MLP	3686.40/3,000		
FAN5608MPXCT-ND	Serial/Parallel LED Driver with Current Regulated, Step-Up DC/DC Converter, External Diode*	8-MLP	2.33	1.86	1.40
FAN5608MPXLTR-ND	Serial/Parallel LED Driver with Current Regulated, Step-Up DC/DC Converter, External Diode*	8-MLP	3571.20/3,000		
FAN5609MPXCT-ND	LED Driver with Adaptive Charge Pump DC/DC Converter*	16-MLP	2.33	1.86	1.40
FAN5609MPXTR-ND	LED Driver with Adaptive Charge Pump DC/DC Converter*	16-MLP	3571.20/3,000		
FAN5610MPXCT-ND	LED Driver for 4-Parallel Connected LEDs*	8-MLP	1.35	1.13	.90
FAN5610MPXTR-ND	LED Driver for 4-Parallel Connected LEDs*	8-MLP	1755.00/3,000		
FAN5611S7XCT-ND	LDO LED Driver for Parallel Connected LEDs*	SC70-6	1.35	1.13	.90
FAN5611S7XTR-ND	LDO LED Driver for Parallel Connected LEDs*	SC70-6	1755.00/3,000		
FAN5612S7XCT-ND	LDO LED Driver for Parallel Connected LEDs*	SC70-6	1.35	1.13	.90
FAN5612S7XTR-ND	LDO LED Driver for Parallel Connected LEDs*	SC70-6	1755.00/3,000		
FAN5613MPXCT-ND	LDO LED Driver for Parallel Connected LEDs*	8-MLP	1.35	1.13	.90
FAN5613MPXTR-ND	LDO LED Driver for Parallel Connected LEDs*	8-MLP	1755.00/3,000		
FAN5614S7XCT-ND	LDO LED Driver for Parallel Connected LEDs*	SC70-6	1.35	1.13	.90
FAN5614S7XTR-ND	LDO LED Driver for Parallel Connected LEDs*	SC70-6	1755.00/3,000		
FAN6555MXCT-ND	2A DDR Bus Termination Regulator*16-SOIC	2.50	3.20	2.56	1.99
FAN6555MXTR-ND	2A DDR Bus Termination Regulator*	16-SOIC	4473.00/2,500		
FAN7040MXCT-ND	3W Mono BTL Amp with DC Volume Control*	20-SOP	1.29	1.08	.86
FAN7040MXTR-ND	3W Mono BTL Amp with DC Volume Control*	20-SOP	571.90/1,000		
FAN7361MXCT-ND	High Side Gate Driver*	8-SOIC	1.26	1.05	.84
FAN7361MXTR-ND	High Side Gate Driver*	8-SOIC	1638.00/3,000		
FAN7380MXCT-ND	Half Bridge Gate Driver*	8-SOIC	1.14	.95	.76
FAN7380MXTR-ND	Half Bridge Gate Driver*	8-SOIC	1482.00/3,000		
FAN7382MXCT-ND	Half Bridge Gate Driver*	8-SOIC	1.35	1.08	.81
FAN7382MXTR-ND	Half Bridge Gate Driver*	8-SOIC	2073.60/3,000		
FAN7544MXCT-ND	Simple Ballast Controller*	8-SOP	1.29	1.08	.86
FAN7544MXTR-ND	Simple Ballast Controller*	8-SOP	1677.00/3,000		
FAN7544N-ND	Simple Ballast Controller*	8-Dip	1.29	1.08	.86
FAN8741GXCT-ND	Spindle Motor and 6-Channel Driver*	56-SSOP-HS	2.00	1.60	1.20
FAN8741GXTR-ND	Spindle Motor and 6-Channel Driver*	56-SSOP-HS	1040.00/1,000		
FAN8741MTFXCT-ND	Spindle Motor and 6-Channel Driver*	56-TSSOP-EP	1.88	1.50	1.13
FAN8741MTFXTR-ND	Spindle Motor and 6-Channel Driver*	56-TSSOP-EP	975.00/1,000		
FCP11N60-ND	SuperFET™* ***NEW!***	TO-220	2.30	1.84	1.38
FDC6301NCT-ND	Dual N-Channel, Digital FET* ***NEW!***	SSOT-6	.45	.36	.27
FDC6301NTR-ND	Dual N-Channel, Digital FET* ***NEW!***	SSOT-6	360.45/3,000		
FDC6303NCT-ND	Digital FET, Dual N-Channel* ***NEW!***	SSOT-6	.45	.36	.27
FDC6303NTR-ND	Digital FET, Dual N-Channel* ***NEW!***	SSOT-6	360.45/3,000		
FDG6303NCT-ND	Dual N-Channel, Digital FET* ***NEW!***	SC70-6	.43	.35	.26

* *RoHS Compliant*

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FDG6303NTR-ND	Dual N-Channel, Digital FET* ***NEW!***	SC70-6	348.30/3,000		
FDG6304PCT-ND	Dual P-Channel, Digital FET* ***NEW!***	SC70-6	.53	.43	.32
FDG6304PTR-ND	Dual P-Channel, Digital FET* ***NEW!***	SC70-6	429.30/3,000		
FDG6322CCT-ND	Dual N and P-Channel, Digital FET* ***NEW!***	SC70-6	.43	.35	.26
FDG6322CTR-ND	Dual N and P-Channel, Digital FET* ***NEW!***	SC70-6	348.30/3,000		
FDG6323LCT-ND	Integrated Load Switch* ***NEW!***	SC70-6	.54	.43	.33
FDG6323LTR-ND	Integrated Load Switch* ***NEW!***	SC70-6	433.35/3,000		
FIN1017K8XCT-ND	3.3V LVDS 1-Bit High Speed Differential Driver*	US8	1.38	1.15	.92
FIN1017K8XTR-ND	3.3V LVDS 1-Bit High Speed Differential Driver*	US8	1794.00/3,000		
FIN1018K8XCT-ND	3.3V LVDS 1-Bit High Speed Differential Receiver*	US8	1.38	1.15	.92
FIN1018K8XTR-ND	3.3V LVDS 1-Bit High Speed Differential Receiver*	US8	1794.00/3,000		
FIN1019MXCT-ND	3.3V LVDS High Speed Diff. Driver/Receiver*	14-SOIC	1.45	1.16	.87
FIN1019MXTR-ND	3.3V LVDS High Speed Diff. Driver/Receiver*	14-SOIC	1856.00/2,500		
FIN1022MXCT-ND	2x2 LVDS High Speed Crosspoint Switch*	16-SOIC	5.63	4.50	3.50
FIN1022MXTR-ND	2x2 LVDS High Speed Crosspoint Switch*	16-SOIC	7875.00/2,500		
FIN1027K8XCT-ND	3.3V LVDS 2-Bit High Speed Differential Driver*	US8	1.65	1.38	1.10
FIN1027K8XTR-ND	3.3V LVDS 2-Bit High Speed Differential Driver*	US8	2145.00/3,000		
FIN1031MXCT-ND	3.3V LVDS 4-Bit High Speed Differential Driver*	16-SOIC	1.95	1.56	1.17
FIN1031MXTR-ND	3.3V LVDS 4-Bit High Speed Differential Driver*	16-SOIC	2496.00/2,500		
FIN1032MXCT-ND	3.3V LVDS 4-Bit High Speed Diff. Receiver*	16-SOIC	1.95	1.56	1.17
FIN1032MXTR-ND	3.3V LVDS 4-Bit High Speed Diff. Receiver*	16-SOIC	2496.00/2,500		
FIN1047MXCT-ND	3.3V LVDS 4-Bit Flow-Through High Speed Differential Driver*	16-SOIC	1.95	1.56	1.17
FIN1047MXTR-ND	3.3V LVDS 4-Bit Flow-Through High Speed Differential Driver*	16-SOIC	2496.00/2,500		
FIN1048MXCT-ND	3.3V LVDS 4-Bit Flow-Through High Speed Differential Receiver*	16-SOIC	2.23	1.78	1.34
FIN1048MXTR-ND	3.3V LVDS 4-Bit Flow-Through High Speed Differential Receiver*	16-SOIC	2848.00/2,500		
FIN1101K8XCT-ND	LVDS Single Port High Speed Repeater*	US8	1.43	1.14	.86
FIN1101K8XTR-ND	LVDS Single Port High Speed Repeater*	US8	2188.80/3,000		
FIN1531MXCT-ND	5V LVDS 4-Bit High Speed Differential Driver*	16-SOIC	2.38	1.90	1.43
FIN1531MXTR-ND	5V LVDS 4-Bit High Speed Differential Driver*	16-SOIC	3040.00/2,500		
FIN1532MXCT-ND	5V LVDS 4-Bit High Speed Differential Receiver*	16-SOIC	2.38	1.90	1.43
FIN1532MXTR-ND	5V LVDS 4-Bit High Speed Differential Receiver*	16-SOIC	3040.00/2,500		
FMS6143CSXCT-ND	3-Channel, 4th Order Standard Definition Video Filter Driver*	8-SOIC	.72	.60	.48
FMS6143CSXTR-ND	3-Channel, 4th Order Standard Definition Video Filter Driver*	8-SOIC	780.00/2,500		
FMS6145MTC14XCT-ND	5-Channel, 4th Order Standard Definition Video Filter Driver*	14-TSSOP	1.33	1.06	.80
FMS6145MTC14XTR-ND	5-Channel, 4th Order Standard Definition Video Filter Driver*	14-TSSOP	1696.00/2,500		
FMS6146MTC14XCT-ND	6-Channel, 4th Order Standard Definition Video Filter Driver*	14-TSSOP	1.48	1.18	.89
FMS6146MTC14XTR-ND	6-Channel, 4th Order Standard Definition Video Filter Driver*	14-TSSOP	1888.00/2,500		
FMS6363CSXCT-ND	3-Ch., 6th Order High Definition Video Filter Driver*	8-SOIC	1.42	1.19	.95
FMS6363CSXTR-ND	3-Ch., 6th Order High Definition Video Filter Driver*	8-SOIC	1540.50/2,500		
FMS6366MSA28XCT-ND	Selectable YPbPR HD/SD 4:2:2 Video Filter Driver with Y, C and Composite Outputs*	28-SSOP	3.60	2.88	2.24
FMS6366MSA28XTR-ND	Selectable YPbPr HD/SD 4:2:2 Video Filter Driver with Y, C and Composite Outputs*	28-SSOP	5040.00/2,500		
FMS6403MTC20XCT-ND	Triple Video Driver with Selectable HD/PS/SD/Bypass Filters for RGB and YPbPr Signals*	20-TSSOP	3.78	3.03	2.36
FMS6403MTC20XTR-ND	Triple Video Driver with Selectable HD/PS/SD/Bypass Filters for RGB and YPbPr Signals*	20-TSSOP	5292.00/2,500		
FMS6406CSXCT-ND	Precision S-Video Filter with Summed Composite Output, Sound Trap, and Group Delay Compensation*	8-SOIC	2.66	2.13	1.66
FMS6406CSXTR-ND	Precision S-Video Filter with Summed Composite Output, Sound Trap, and Group Delay Compensation*	8-SOIC	3717.00/2,500		
FMS6407MTC20XCT-ND	Triple Video Driver with Selectable HD/Progressive/SD/Bypass Filter*	20-TSSOP	2.72	2.18	1.70
FMS6407MTC20XTR-ND	Triple Video Driver with Selectable HD/Progressive/SD/Bypass Filter*	20-TSSOP	3811.50/2,500		
FMS6408MTC141XCT-ND	Triple Video Filter Driver for RGB/YUV Signals*	14-TSSOP	2.08	1.66	1.25
FMS6408MTC141XTR-ND	Triple Video Filter Driver for RGB/YUV Signals*	14-TSSOP	2656.00/2,500		
FMS6408MTC143XCT-ND	Triple Video Filter Driver for RGB/YUV Signals*	14-TSSOP	2.08	1.66	1.25
FMS6408MTC143XTR-ND	Triple Video Filter Driver for RGB/YUV Signals*	14-TSSOP	2656.00/2,500		
FMS6413CSXCT-ND	1-Ch., Video Driver with Integrated Filter/Clamp*	8-SOIC	1.70	1.36	1.02
FMS6413CSXTR-ND	1-Ch., Video Driver with Integrated Filter/Clamp*	8-SOIC	2176.00/2,500		
FMS6414CSXCT-ND	2-Ch., Video Driver with Integrated Filters*	8-SOIC	1.93	1.54	1.16
FMS6414CSXTR-ND	2-Ch., Video Driver with Integrated Filters*	8-SOIC	2464.00/2,500		
FMS6417ACHXCT-ND	Selectable RGB (YUV) HD/SD Video Filter Driver with Y, C, Composite, and Modulator Outputs*	32-LQFP	6.19	4.95	3.85
FMS6417ACHXTR-ND	Selectable RGB (YUV) HD/SD Video Filter Driver with Y, C, Composite, and Modulator Outputs*	32-LQFP	3506.25/1,000		
FMS6418AM16XCT-ND	Triple Video Driver with Selectable HD/SD Video Filters for RGB or YUV Signals*	16-SOIC	2.35	1.88	1.41
FMS6418AM16XTR-ND	Triple Video Driver with Selectable HD/SD Video Filters for RGB or YUV Signals*	16-SOIC	1222.00/1,000		
FMS6418AMTC14XCT-ND	Triple Video Driver with Selectable HD/SD Video Filters for RGB or YUV Signals*	14-TSSOP	2.30	1.84	1.38
FMS6418AMTC14XTR-ND	Triple Video Driver with Selectable HD/SD Video Filters for RGB or YUV Signals*	14-TSSOP	2944.00/2,500		
FMS6419MSA28XCT-ND	Selectable RGB (YUV) HD/SD Video Filter Driver with Y, C, Composite Outputs*	28-SSOP	3.38	2.70	2.10
FMS6419MSA28XTR-ND	Selectable RGB (YUV) HD/SD Video Filter Driver with Y, C, Composite Outputs*	28-SSOP	3825.00/2,000		
FMS7401LEN14-ND	Digital Power Controller*	14-Dip	4.16	3.33	2.59
FMS7401LEN-ND	Digital Power Controller*	8-Dip	4.88	3.90	2.93
FMS7401LVN14-ND	Digital Power Controller*	14-Dip	4.16	3.33	2.59
FMS7401LVN-ND	Digital Power Controller*	8-Dip	3.53	2.83	2.20
FPF2000CT-ND	50mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	.88	.66	.50
FPF2000TR-ND	50mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	858.00/3,000		
FPF2001CT-ND	50mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	.88	.66	.50
FPF2001TR-ND	50mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	858.00/3,000		
FPF2002CT-ND	50mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	.88	.66	.50
FPF2002TR-ND	50mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	858.00/3,000		
FPF2003CT-ND	50mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	.88	.66	.50
FPF2003TR-ND	50mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	858.00/3,000		
FPF2004CT-ND	100mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	.88	.66	.50

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FPF2004TR-ND	100mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	858.00/3,000		
FPF2005CT-ND	100mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	.88	.66	.50
FPF2005TR-ND	100mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	858.00/3,000		
FPF2006CT-ND	100mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	.88	.66	.50
FPF2006TR-ND	100mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	858.00/3,000		
FPF2007CT-ND	100mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	.88	.66	.50
FPF2007TR-ND	100mA IntelliMAX™ Load Switch, Full Protection*	SC70-5	858.00/3,000		
FPF2101CT-ND	200mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	.78	.65	.52
FPF2101TR-ND	200mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	1014.00/3,000		
FPF2102CT-ND	200mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	.78	.65	.52
FPF2102TR-ND	200mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	1014.00/3,000		
FPF2103CT-ND	200mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	.78	.65	.52
FPF2103TR-ND	200mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	1014.00/3,000		
FPF2104CT-ND	400mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	.81	.68	.54
FPF2104TR-ND	400mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	1053.00/3,000		
FPF2105CT-ND	400mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	.81	.68	.54
FPF2105TR-ND	400mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	1053.00/3,000		
FPF2106CT-ND	400mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	.81	.68	.54
FPF2106TR-ND	400mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	1053.00/3,000		
FPF2107CT-ND	400mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	.81	.68	.54
FPF2107TR-ND	400mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	1053.00/3,000		
FPF2109CT-ND	200mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	.93	.78	.62
FPF2109TR-ND	200mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	1209.00/3,000		
FPF2110CT-ND	400mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	.96	.80	.64
FPF2110TR-ND	400mA IntelliMAX™ Load Switch, Full Protection*	SOT-23-5	1248.00/3,000		
FS6X1220RDCT-ND	FPS™ for Off-Line DC/DC Converters*	D2-PAK-5L	1.75	1.40	1.05
FS6X1220RDTR-ND	FPS™ for Off-Line DC/DC Converters*	D2-PAK-5L	756.00/800		
FS6X1220RTYDTU-ND	FPS™ for Off-Line DC/DC Converters*	TO-220F-5L	1.75	1.40	1.05
FS7M0880TU-ND	800V, 8A Power Switch*	TO-3P-5L	3.38	2.70	2.10
FS7M0880YDTU-ND	800V, 8A Power Switch*	TO-3P-5L	3.38	2.70	2.10
FS8S0765RCBYDTU-ND	650V, 7A Power Switch*	TO-220-5L	2.88	2.30	1.73
FS8S0965RCBYDTU-ND	650V, 9A Power Switch*	TO-220-5L	2.81	2.25	1.75
FSA1156L6XCT-ND	Low R_{ON} Low Voltage SPST Analog Switch*	6-MicroPak	.76	.57	.43
FSA1156L6XTR-ND	Low R_{ON} Low Voltage SPST Analog Switch*	6-MicroPak	1204.88/5,000		
FSA1156P6XCT-ND	Low R_{ON} Low Voltage SPST Analog Switch*	SC70-6	.76	.57	.43
FSA1156P6XTR-ND	Low R_{ON} Low Voltage SPST Analog Switch*	SC70-6	737.10/3,000		
FSA1157L6XCT-ND	Low R_{ON} Low Voltage SPST Analog Switch*	6-MicroPak	.76	.57	.43
FSA1157L6XTR-ND	Low R_{ON} Low Voltage SPST Analog Switch*	6-MicroPak	1204.88/5,000		
FSA1157P6XCT-ND	Low R_{ON} Low Voltage SPST Analog Switch*	SC70-6	.76	.57	.43
FSA1157P6XTR-ND	Low R_{ON} Low Voltage SPST Analog Switch*	SC70-6	737.10/3,000		
FSA1256L8XCT-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} "A" Option*	8-MicroPak	.90	.75	.60
FSA1256L8XTR-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} "A" Option*	8-MicroPak	1912.50/5,000		
FSA1257L8XCT-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} "A" Option*	8-MicroPak	.90	.75	.60
FSA1257L8XTR-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} "A" Option*	8-MicroPak	1912.50/5,000		
FSA1258L8XCT-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} "A" Option*	8-MicroPak	.90	.75	.60
FSA1258L8XTR-ND	Low R_{ON} Low Voltage Dual SPST Analog Switch with Low I_{CCT} "A" Option*	8-MicroPak	1912.50/5,000		
FSA2257L10XCT-ND	Low R_{ON} Low Voltage Dual SPDT Bi-Directional Analog Switch*	10-MicroPak	1.35	1.13	.90
FSA2257L10XTR-ND	Low R_{ON} Low Voltage Dual SPDT Bi-Directional Analog Switch*	10-MicroPak	2868.75/5,000		
FSA2267L10XCT-ND	0.35-Ohm Low Voltage Dual SPDT Analog Switch*	10-MicroPak	1.47	1.23	.98
FSA2267L10XTR-ND	0.35-Ohm Low Voltage Dual SPDT Analog Switch*	10-MicroPak	3123.75/5,000		
FSA3157P6XCT-ND	Low Voltage SPDT Analog Switch* ***NEW!***	6-MICROPAK	.43	.34	.26
FSA3157P6XTR-ND	Low Voltage SPDT Analog Switch* ***NEW!***	6-MICROPAK	936.00/3,000		
FSA3357K8XCT-ND	Low Voltage SP3T Analog Switch*	US8	.99	.83	.66
FSA3357K8XTR-ND	Low Voltage SP3T Analog Switch*	US8	1287.00/3,000		
FSA4157AL6XCT-ND	Low Voltage 1-Ohm SPDT Analog Switch*	6-MicroPak	.84	.63	.48
FSA4157AL6XTR-ND	Low Voltage 1-Ohm SPDT Analog Switch*	6-MicroPak	1338.75/5,000		
FSA4157AP6XCT-ND	Low Voltage 1-Ohm SPDT Analog Switch*	SC70-6	1.20	.90	.68
FSA4157AP6XTR-ND	Low Voltage 1-Ohm SPDT Analog Switch*	SC70-6	1170.00/3,000		
FSA4157L6XCT-ND	Low Voltage 1-Ohm SPDT Analog Switch*	6-MicroPak	.80	.60	.45
FSA4157L6XTR-ND	Low Voltage 1-Ohm SPDT Analog Switch*	6-MicroPak	1275.00/5,000		
FSA4157P6XCT-ND	Low Voltage 1-Ohm SPDT Analog Switch*	SC70-6	.60	.45	.34
FSA4157P6XTR-ND	Low Voltage 1-Ohm SPDT Analog Switch*	SC70-6	585.00/3,000		
FSAV331QSCXCT-ND	Dual Channel 4:1 Video Switch*	16-QSOP	1.35	1.13	.90
FSAV331QSCXTR-ND	Dual Channel 4:1 Video Switch*	16-QSOP	1462.50/2,500		
FSAV332QSCXCT-ND	Quad Video Switch with Individual Enables*	16-QSOP	.96	.80	.64
FSAV332QSCXTR-ND	Quad Video Switch with Individual Enables*	16-QSOP	1040.00/2,500		
FSAV430BQXCT-ND	Low Voltage 1.1GHz, 4-Ch., 2:1 Video Switch*	16-DQFN	2.45	1.96	1.47
FSAV430BQXTR-ND	Low Voltage 1.1GHz, 4-Ch., 2:1 Video Switch*	16-DQFN	3763.20/3,000		
FSAV430QSCXCT-ND	Low Voltage 1.1GHz, 4-Ch., 2:1 Video Switch*	16-QSOP	2.45	1.96	1.47
FSAV430QSCXTR-ND	Low Voltage 1.1GHz, 4-Ch., 2:1 Video Switch*	16-QSOP	3136.00/2,500		
FSAV450QSCXCT-ND	800MHz, 4-Ch., 2:1 Video Switch*	16-QSOP	1.63	1.30	.98
FSAV450QSCXTR-ND	800MHz, 4-Ch., 2:1 Video Switch*	16-QSOP	2080.00/2,500		
FSCQ0765RTYDTU-ND	Green Mode Power Switch for Quasi-Resonant Switching Converter*	TO-220F-5L	1.88	1.50	1.13
FSCQ1265RTYDTU-ND	Green Mode Power Switch for Quasi-Resonant Switching Converter*	TO-220F-5L	2.50	2.00	1.50
FSCQ1565RTYDTU-ND	Green Mode Power Switch for Quasi-Resonant Switching Converter*	TO-220F-5L	2.88	2.30	1.73
FSUSB11L10XCT-ND	LP Full Speed USB (12Mbps) Switch*	10-MicroPak	1.56	1.30	1.04
FSUSB11L10XTR-ND	LP Full Speed USB (12Mbps) Switch*	10-MicroPak	3315.00/5,000		
FSUSB22BQXCT-ND	Low Power 2-Port High Speed USB 2.0 (480Mbps) Switch*	16-DQFN	1.93	1.54	1.16
FSUSB22BQXTR-ND	Low Power 2-Port High Speed USB 2.0 (480Mbps) Switch*	16-DQFN	2956.80/3,000		
FSUSB22QSCXCT-ND	Low Power 2-Port High Speed USB 2.0 (480Mbps) Switch*	16-QSOP	1.93	1.54	1.16
FSUSB22QSCXTR-ND	Low Power 2-Port High Speed USB 2.0 (480Mbps) Switch*	16-QSOP	2464.00/2,500		
FSUSB31L8XCT-ND	Low Power Dual SPST High Speed USB 2.0 (480Mbps) Switch* ***NEW!***	8-MicroPak	1.70	1.36	1.02
FSUSB31L8XTR-ND	Low Power Dual SPST High Speed USB 2.0 (480Mbps) Switch* ***NEW!***	8-MicroPak	4250.00/5,000		
FXLP34P5XCT-ND	Single Bit Uni-Directional Translator* ***NEW!***	SC70-5	.84	.63	.48
FXLP34P5XTR-ND	Single Bit Uni-Directional Translator* ***NEW!***	SC70-5	819.00/3,000		
KA7805ETU-ND	3-Terminal 1A Positive Voltage Regulator* ***NEW!***	TO-220	.48	.38	.29

***RoHS Compliant**

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

FAIRCHILD SEMICONDUCTOR LINEAR ICs *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
KSC5305DTU-ND	High Voltage High Speed Power Switch* ***NEW!***	TO-220	.83	.63	.47
LF353NFS-ND	4MHz Dual JFet Op Amp	8-Dip	.53	.40	.30
LM78L05ACZFS-ND	0-125°C, 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.36	.29	.20
LM78M05CTFS-ND	0-125°C, 3-Terminal 0.5A Positive Voltage Regulator	TO-220	.48	.36	.27
LM311MFS-ND	0-70°C Single Comparator	8-SOP	.59	.48	.36
LM311NFS-ND	0-70°C Single Comparator	8-Dip	.59	.48	.36
LM317TFS-ND	1.5A, 3-Terminal Positive Adjustable Regulator	TO-220	.62	.47	.36
LM337TFS-ND	1.5A, 3-Terminal Negative Adjustable Regulator	TO-220	.67	.51	.38
LM339ANFS-ND	0-70°C Quad Comparator	14-Dip	.55	.44	.33
LM339MFS-ND	0-70°C Quad Comparator	14-SOP	.55	.44	.33
LM339NFS-ND	0-70°C Quad Comparator	14-Dip	.55	.44	.33
LM350TFS-ND	3A, 3-Terminal Positive Adjustable Voltage	TO-220	1.26	1.05	.84
LM358AMFS-ND	0-70°C Dual Op Amp	8-SOIC	.48	.39	.29
LM358ANFS-ND	0-70°C Dual Op Amp	8-Dip	.48	.39	.29
LM358MFS-ND	0-70°C Dual Op Amp	8-SOIC	.48	.39	.29
LM358NFS-ND	0-70°C Dual Op Amp	8-Dip	.48	.39	.29
LM393AN-ND	0-70°C Dual Differential Comparator	8-Dip	.42	.34	.26
LM393MFS-ND	0-70°C Dual Differential Comparator	8-SOP	.42	.34	.26
LM393NFS-ND	0-70°C Dual Differential Comparator	8-Dip	.42	.34	.26
LM555CNFS-ND	0-70°C Single Timer	8-Dip	.50	.40	.30
LM1458NFS-ND	Dual Op Amp	8-Dip	.55	.44	.33
LM2901NFS-ND	Quad Comparator	14-Dip	.50	.40	.30
LM2903MFS-ND	Dual Differential Comparator	8-SOP	.54	.44	.33
LM2903NFS-ND	Dual Differential Comparator	8-Dip	.50	.40	.30
LM2904MFS-ND	Dual Op Amp	8-SOP	.54	.44	.33
LM2904NFS-ND	Dual Op Amp	8-Dip	.50	.40	.30
LM7805CT-ND	0 to 125°C, 3-Terminal 1A Positive Voltage Regulator	TO-220	.55	.44	.33
LM7905CTFS-ND	-5V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	.27
MB2SCT-ND	Bridge Rectifier* ***NEW!***	4-SOIC	.45	.37	.25
MB2STR-ND	Bridge Rectifier* ***NEW!***	4-SOIC	351.90/3,000		
MB4SCT-ND	Bridge Rectifier* ***NEW!***	4-SOIC	.49	.40	.28
MB4STR-ND	Bridge Rectifier* ***NEW!***	4-SOIC	387.60/3,000		
MB6SCT-ND	Bridge Rectifier* ***NEW!***	4-SOIC	.49	.40	.28
MB6STR-ND	Bridge Rectifier* ***NEW!***	4-SOIC	387.60/3,000		
MC78L08ACPTR-ND	8V, 4% 3-Terminal 0.1A Positive Voltage Regulator	TO-92	.36	.29	.20
MC78M05CTFS-ND	5V, 4% 3-Terminal 0.5A Positive Voltage Regulator	TO-220	.48	.36	.27
MC78T05CTFS-ND	3-Terminal 3A Positive Voltage Regulator* ***NEW!***	TO-220	1.08	.90	.72
MC7805CTFS-ND	5V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.75	.57	.43
MC7808CTFS-ND	8V, 4% 3-Terminal 1A Positive Voltage Regulator	TO-220	.48	.36	.27
MC7905CTFS-ND	-5V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	.27
MC7912CTFS-ND	-12V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	.27
MC7915CTFS-ND	-15V, 4% 3-Terminal 1A Negative Voltage Regulator	TO-220	.48	.36	.27
MM74HCU04MXCT-ND	Hex Inverter* ***NEW!***	14-SOIC	.38	.30	.22
MM74HCU04MXTR-ND	Hex Inverter* ***NEW!***	14-SOIC	234.00/2,500		
MMBFJ112CT-ND	N-Channel Switch* ***NEW!***	SOT-23	.43	.34	.24
MMBFJ112TR-ND	N-Channel Switch* ***NEW!***	SOT-23	291.60/3,000		
QRE1113GRCT-ND	Reflective Object Sensor* ***NEW!***	SMD	.80	.67	.54
QRE1113GRTR-ND	Reflective Object Sensor* ***NEW!***	SMD	356.44/1,000		
RC1117DXCT-ND	1A, Adjustable LDO Linear Regulator	TO-252	1.17	.98	.78
RC1117DXTR-ND	1A, Adjustable LDO Linear Regulator	TO-252	1267.50/2,500		
RC1117M-ND	1A, Adjustable LDO Linear Regulator	TO-263	.80	.67	.54
RC1117M285-ND	2.85V, 1A, Fixed LDO Linear Regulator	TO-263	.96	.80	.64
RC1117STCT-ND	1A, Adjustable LDO Linear Regulator	SOT-223	.53	.40	.30
RC1117STTR-ND	1A, Adjustable LDO Linear Regulator	SOT-223	975.00/2,500		
RC1117S285TCT-ND	2.85V, 1A, Fixed LDO Linear Regulator	SOT-223	.62	.47	.36
RC1117S285TTR-ND	2.85V, 1A, Fixed LDO Linear Regulator	SOT-223	507.00/2,500		
RC1584T-ND	7A, Adjustable LDO Linear Regulator	TO-220	1.47	1.23	.98
RC1585M-ND	5A, Adjustable LDO Linear Regulator	TO-263	1.08	.90	.72
RC1585M15-ND	1.5V, 5A, Fixed LDO Linear Regulator	TO-263	1.08	.90	.72
RC1585MTCT-ND	5A, Adjustable LDO Linear Regulator	TO-263	1.08	.90	.72
RC1585T15-ND	1.5V, 5A, Fixed LDO Linear Regulator	TO-220	1.08	.90	.72
RC1587M-ND	3A, Adjustable LDO Linear Regulator	TO-263	1.01	.84	.68
RC1587M15-ND	1.5V, 3A, Fixed LDO Linear Regulator	TO-263	1.01	.84	.68
RC1587M33-ND	3.3V, 3A, Fixed LDO Linear Regulator	TO-263	1.38	1.15	.92
RC1587T-ND	3A, Adjustable LDO Linear Regulator	TO-220	1.01	.84	.68
RC1587T15-ND	1.5V, 3A, Fixed LDO Linear Regulator	TO-220	1.01	.84	.68
RC1587T33-ND	3.3V, 3A, Fixed LDO Linear Regulator	TO-220	1.01	.84	.68
SCANPSC110FSC-ND	SCAN Bridge Hierarchical and Multidrop Addressable JTAG Port* ***NEW!***	28-SOIC	11.31	10.19	9.04

* ***RoHS Compliant***

FAIRCHILD SEMICONDUCTOR PFC/PWM CONTROLLERS — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FAN2011MPXCT-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1.25	1.00	.75
FAN2011MPXTR-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1920.00/3,000		
FAN2012MPXCT-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	1.38	1.10	.83
FAN2012MPXTR-ND	Adj., 1.5A Low Volt. Current Mode Sync. PWM Buck Reg.	6-MLP	2112.00/3,000		
FAN4803CP1-ND	PFC/PWM Controller, 67KHz Frequency	8-Dip	2.81	2.25	1.75
FAN4803CP2-ND	PFC/PWM Controller, 67/134KHz Frequency	8-Dip	2.81	2.25	1.75
FAN4803CS1XCT-ND	PFC/PWM Controller, 67KHz Frequency	8-SOIC	3.94	3.15	2.45
FAN4803CS1XTR-ND	PFC/PWM Controller, 67KHz Frequency	8-SOIC	5512.50/2,500		
FAN4803CS2XCT-ND	PFC/PWM Controller, 67/134KHz Frequency	8-SOIC	3.71	2.97	2.31
FAN4803CS2XTR-ND	PFC/PWM Controller, 67/134KHz Frequency	8-SOIC	5197.50/2,500		
FAN4810MXCT-ND	PFC Controller	16-SOIC	2.25	1.80	1.35
FAN4810MXTR-ND	PFC Controller	16-SOIC	2880.00/2,500		
FAN4810N-ND	PFC Controller	16-Dip	2.25	1.80	1.35
FAN4822IN-ND	ZVS Average Current PFC Controller	14-Dip	5.60	4.48	3.78
FAN5026MTCXCT-ND	Dual DDR/Dual Output PWM Controller	28-TSSOP	2.38	1.90	1.43
FAN5026MTCXTR-ND	Dual DDR/Dual Output PWM Controller	28-TSSOP	3040.00/2,500		
FAN5234QSCXCT-ND	Mobile Friendly PWM/PFM Controller	16-QSOP	1.88	1.50	1.13
FAN5234QSCXTR-ND	Mobile Friendly PWM/PFM Controller	16-QSOP	2400.00/2,500		
FAN5236MTC-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller ***NEW!***	28-TSSOP	3.15	2.52	1.96
FAN5236MTCXCT-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller	28-TSSOP	3.15	2.52	1.96
FAN5236MTCXTR-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller	28-TSSOP	4410.00/2,500		
FAN5236QSCXCT-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller	28-QSOP	2.50	2.00	1.56
FAN5236QSCXTR-ND	Dual Mobile Friendly DDR/Dual Output PWM Controller	28-QSOP	3496.50/2,500		
FAN6520AMXCT-ND	Single Sync. Buck PWM Controller	8-SOIC	1.20	1.00	.80
FAN6520AMXTR-ND	Single Sync. Buck PWM Controller	8-SOIC	1300.00/2,500		
FAN7527BMXCT-ND	PFC Controller	8-SOP	1.20	.90	.68
FAN7527BMXTR-ND	PFC Controller	8-SOP	975.00/2,500		
FAN7527BN-ND	PFC Controller ***NEW!***	8-Dip	.90	.75	.60
FAN7554-ND	Versatile PWM Controller	8-Dip	1.28	.96	.72
FAN7554D-ND	Versatile PWM Controller	8-SOP	.96	.80	.64
FAN7554DTFCT-ND	Versatile PWM Controller	8-SOP	1.28	.96	.72
FAN7554DTFTR-ND	Versatile PWM Controller	8-SOP	1040.00/2,500		
FAN7601GXCT-ND	Green Current Mode PWM Controller	10-SSOP	1.44	1.08	.81
FAN7601GXTR-ND	Green Current Mode PWM Controller	10-SSOP	1404.00/3,000		
FAN7601MXCT-ND	Green Current Mode PWM Controller	8-SOP	1.44	1.08	.81
FAN7601MXTR-ND	Green Current Mode PWM Controller	8-SOP	1404.00/3,000		
FAN7601N-ND	Green Current Mode PWM Controller	8-Dip	1.44	1.08	.81
FSD200-ND	Green Mode Fairchild Power Switch (FPS™) ***NEW!***	7-Dip	.88	.66	.50
FSD200B-ND	Green Mode Power Switch, PWM and Sense FETs	7-Dip	1.28	.96	.72
FSD200BM-ND	Green Mode Power Switch, PWM and Sense FETs	7L-SOP	1.28	.96	.72
FSD210-ND	Green Mode Power Switch, PWM and Sense FETs	7-Dip	.75	.63	.50
FSD210B-ND	Green Mode Power Switch, PWM and Sense FETs	7-Dip	1.20	1.00	.80
FSD210BM-ND	Green Mode Power Switch, PWM and Sense FETs	7L-SOP	1.20	1.00	.80
FSDH0265RL-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8L-SOP	1.25	1.00	.75
FSDH0265RN-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8-Dip	1.14	.95	.76
FSDH321L-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8L-SOP	.96	.80	.64
FSDH321Z-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8-Dip	1.05	.88	.70
FSDL0165RL-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8L-SOP	1.20	1.00	.80
FSDL0165RN-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8-Dip	1.20	1.00	.80
FSDL0365RL-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8L-SOP	1.50	1.20	.90
FSDL0365RNB-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8-Dip	1.71	1.43	1.14
FSDL321-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8-Dip	1.14	.95	.76
FSDL321L-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8L-SOP	1.14	.95	.76
FSDM0265RL-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8L-SOP	1.44	1.20	.96
FSDM0265RNB-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8-Dip	1.44	1.20	.96
FSDM0365RL-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8L-SOP	1.71	1.43	1.14
FSDM0365RN-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8-Dip	1.35	1.13	.90
FSDM0365RNB-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8-Dip	1.71	1.43	1.14
FSDM0565RBWDTU-ND	Green Mode Power Switch, Integrated PWM and Sense FET	TO-220F-6L	1.88	1.50	1.13
FSDM0565RWDTU-ND	Green Mode Power Switch, Integrated PWM and Sense FET	TO-220F-6L	1.45	1.16	.87
FSDM07652RWDTU-ND	Green Mode Power Switch, Integrated PWM and Sense FET	TO-220F-6L	1.63	1.30	.98
FSDM101-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8-Dip	.75	.63	.50
FSDM311-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8-Dip	.99	.83	.66
FSDM311L-ND	Green Mode Power Switch, Integrated PWM and Sense FET	8L-SOP	.99	.83	.66
ML4800CP-ND	PFC/PWM Controller Combo	16-Dip	3.38	2.70	2.10
ML4800IP-ND	PFC/PWM Controller Combo	16-Dip	3.38	2.70	2.10
ML4821CP-ND	Power Factor Controller	18-Dip	5.63	4.50	3.50
ML4824CP1-ND	PFC/PWM Controller Combo	16-Dip	4.28	3.42	2.66
ML4824CP2-ND	PFC/PWM Controller Combo	16-Dip	7.31	5.85	4.55
ML4824IP1-ND	PFC/PWM Controller Combo	16-Dip	3.94	3.15	2.45
ML4826CP2-ND	PFC and Dual Output PWM Controller Combo	20-Dip	6.75	5.40	4.20
ML4841CP-ND	Variable Feedforward PFC/PWM Controller Combo	16-Dip	6.64	5.31	4.13

FAIRCHILD SEMICONDUCTOR SMART POWER MODULES — *RoHS Compliant*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
FCAS50SN60-ND	SPM™ for SRM, 600V-50A, Single Phase Asymmetric Bridge	SPM27-DA	15.02	14.02	13.02
FSAM10SH60A-ND	SPM™, 600V-10A, 3-Phase IGBT Inverter Bridge	SPM32-AA	18.20	16.99	15.78
FSAM10SM60A-ND	SPM™, 600V-10A, 3-Phase IGBT Inverter Bridge	SPM32-AA	18.20	16.99	15.78
FSAM15SH60A-ND	SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM32-AA	19.26	17.98	16.70
FSAM30SH60A-ND	SPM™ (Smart Power Module) ***NEW!***	SPM32-AA	24.62	22.98	21.34
FSAM15SL60-ND	SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM32-AA	20.34	18.99	17.63
FSAM15SM60A-ND	SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM32-AA	21.39	19.26	17.08
FSAM20SH60A-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge	SPM32-AA	21.40	19.98	18.55
FSAM20SL60-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge	SPM32-AA	23.54	21.98	20.41
FSAM20SM60A-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge	SPM32-AA	23.77	21.41	18.98
FSAM30SH60A-ND	SPM™, 600V-30A, 3-Phase IGBT Inverter Bridge	SPM32-AA	24.62	22.98	21.34
FSAM30SM60A-ND	SPM™, 600V-30A, 3-Phase IGBT Inverter Bridge	SPM32-AA	24.62	22.98	21.34
FSBB15CH60-ND	SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM27-CA	16.35	14.72	13.06
FSBB20CH60-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge	SPM27-CA	19.17	17.27	15.31
FSBB30CH60-ND	SPM™, 600V-30A, 3-Phase IGBT Inverter Bridge	SPM27-EA	23.00	21.47	19.94
FSBM10SH60A-ND	SPM™, 600V-10A, 3-Phase IGBT Inverter Bridge	SPM32-AA	17.49	16.33	15.16
FSBM10SM60A-ND	SPM™, 600V-10A, 3-Phase IGBT Inverter Bridge	SPM32-AA	17.30	16.15	14.99
FSBM15SH60A-ND	SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM32-AA	18.81	17.56	16.31
FSBM15SM60A-ND	SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM32-AA	18.53	17.29	16.06
FSBM20SH60A-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge	SPM32-AA	20.51	19.14	17.78
FSBM20SM60A-ND	SPM™, 600V-20A, 3-Phase IGBT Inverter Bridge	SPM32-AA	20.87	19.48	18.09
FSBM30SH60A-ND	SPM™, 600V-30A, 3-Phase IGBT Inverter Bridge	SPM32-AA	24.11	22.50	20.90
FSBM30SM60A-ND	SPM™, 600V-30A, 3-Phase IGBT Inverter Bridge	SPM32-AA	24.60	22.96	21.32
FSBS3CH60-ND	SPM™, 600V-3A, 3-Phase IGBT Inverter Bridge	SPM27-BA	10.73	9.66	8.57
FSBS5CH60-ND	SPM™, 600V-5A, 3-Phase IGBT Inverter Bridge	SPM27-BA	11.75	10.58	9.39
FSBS10CH60-ND	SPM™, 600V-10A, 3-Phase IGBT Inverter Bridge	SPM27-BA	12.77	11.51	10.20
FSBS15CH60-ND	SPM™, 600V-15A, 3-Phase IGBT Inverter Bridge	SPM27-BA	15.33	13.80	12.24

FAIRCHILD SEMICONDUCTOR SPECIALIZED ICs

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
100324QC-ND	Low Power Hex TTL-to-ECL Translator	28-PLCC	6.01	4.81	4.06
100325QC-ND	Low Power Hex ECL-to-TTL Translator	28-PLCC	6.01	4.81	4.06
FXL2T245L10XCT-ND	Low Volt. Dual Supply 2-Bit Signal Translator*	10-MicroPak	1.14	.95	.76
FXL2T245L10XTR-ND	Low Volt. Dual Supply 2-Bit Signal Translator*	10-MicroPak	2422.50/5,000		
FXL4T245BQXCT-ND	Low Volt. Dual Supply 4-Bit Signal Translator*	14-DQFN	1.23	1.03	.82

* ***RoHS Compliant***

(Continued)

SPECIALIZED ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
FXL4T245BQXTR-ND	Low Voltage Dual Supply 4-Bit Signal Translator*	14-DQFN	1599.00/3,000		
FXL5T244BQXCT-ND	Low Voltage Dual Supply 5-Bit Signal Translator*	14-DQFN	1.23	1.03	.82
FXL5T244BQXTR-ND	Low Voltage Dual Supply 5-Bit Signal Translator*	14-DQFN	1599.00/3,000		
FXLP34L6XCT-ND	Single Bit Uni-Directional Translator*	6-MicroPak	.84	.63	.48
FXLP34L6XTR-ND	Single Bit Uni-Directional Translator*	6-MicroPak	1338.75/5,000		
FXLP34P5XCT-ND	Single Bit Uni-Directional Translator*	SC70-5	.84	.63	.48
FXLP34P5XTR-ND	Single Bit Uni-Directional Translator*	SC70-5	819.00/3,000		
ML6428CS1XCT-ND	S-Video Filter and 75-Ohm Line Drivers with Summed Composite Output*	8-SOIC	4.28	3.42	2.66
ML6428CS1XTR-ND	S-Video Filter and 75-Ohm Line Drivers with Summed				
ML6428CS1XTR-ND	Composite Output*	8-SOIC	5985.00/2,500		
ML6428CS2XCT-ND	S-Video Filter and 75-Ohm Line Drivers with Summed				
ML6428CS2XCT-ND	Composite Output*	8-SOIC	4.01	3.21	2.50
ML6428CS2XTR-ND	S-Video Filter and 75-Ohm Line Drivers with Summed				
ML6428CS2XTR-ND	Composite Output*	8-SOIC	5607.00/2,500		
ML6554CUXCT-ND	3A Bus Termination Regulator*	16-PSOP	4.50	3.60	2.80
ML6554CUXTR-ND	3A Bus Termination Regulator*	16-PSOP	6300.00/2,500		
ML6554IUXCT-ND	3A Bus Termination Regulator*	16-PSOP	4.82	3.86	3.00
ML6554IUXTR-ND	3A Bus Termination Regulator*	16-PSOP	6741.00/2,500		
USB1T11AMTCXCT-ND	Universal Serial Bus Transceiver* ***NEW!***	14-TSSOP	.75	.63	.50
USB1T11AMTCXTR-ND	Universal Serial Bus Transceiver* ***NEW!***	14-TSSOP	812.50/2,500		
USB1T11AMXCT-ND	USB Transceiver*	14-SOIC	.75	.63	.50
USB1T11AMXTR-ND	USB Transceiver*	14-SOIC	812.500/2,500		
USB1T11AMXCT-ND	Universal Serial Bus Transceiver* ***NEW!***	14-SOIC	.75	.63	.50
USB1T11AMXTR-ND	Universal Serial Bus Transceiver* ***NEW!***	14-SOIC	812.50/2,500		
USB1T1103MHXCT-ND	USB Peripheral Transceiver with Volt. Regulator*	16-MLP	1.44	1.20	.96
USB1T1103MHXTR-ND	USB Peripheral Transceiver with Volt. Regulator*	16-MLP	1872.00/3,000		
USB1T1103MPXCT-ND	USB Peripheral Transceiver with Volt. Regulator*	14-MLP	1.50	1.25	1.00
USB1T1103MPXTR-ND	USB Peripheral Transceiver with Volt. Regulator*	14-MLP	1950.00/3,000		

** RoHS Compliant*

TinyLogic™

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
HS Series					
Surface Mount Product					
NC7S00M5XCT-ND	Single 2-Input NAND Gate	SOT-23-5	.34	.26	.18
NC7S00M5XTR-ND	Single 2-Input NAND Gate	SOT-23-5	201.60/3,000		
NC7S00P5XCT-ND	2-Input NAND Gate	SC70-5	.38	.29	.20
NC7S00P5XTR-ND	2-Input NAND Gate	SC70-5	230.40/3,000		
NC7S02M5XCT-ND	Single 2-Input NOR Gate	SOT-23-5	.38	.29	.20
NC7S02M5XTR-ND	Single 2-Input NOR Gate	SOT-23-5	230.40/3,000		
NC7S04M5XCT-ND	Single Inverter	SOT-23-5	.34	.26	.18
NC7S04M5XTR-ND	Single Inverter	SOT-23-5	201.60/3,000		
NC7S04P5XCT-ND	TinyLogic® HS Inverter* ***NEW!***	SC70-5	.32	.24	.17
NC7S04P5XTR-ND	TinyLogic® HS Inverter* ***NEW!***	SC70-5	192.00/3,000		
NC7S08P5XCT-ND	TinyLogic® HS 2-Input AND Gate* ***NEW!***	SC70-5	.28	.21	.15
NC7S08P5XTR-ND	TinyLogic® HS 2-Input AND Gate* ***NEW!***	SC70-5	168.00/3,000		
NC7S08M5XCT-ND	Single 2-Input AND Gate	SOT-23-5	.34	.26	.18
NC7S08M5XTR-ND	Single 2-Input AND Gate	SOT-23-5	201.60/3,000		
NC7S14M5XCT-ND	Schmitt Trigger Input Inverter	SOT-23-5	.34	.26	.18
NC7S14M5XTR-ND	Schmitt Trigger Input Inverter	SOT-23-5	201.60/3,000		
NC7S14P5XCT-ND	TinyLogic® HS Inverter* ***NEW!***	SC70-5	.28	.21	.15
NC7S14P5XTR-ND	TinyLogic® HS Inverter* ***NEW!***	SC70-5	168.00/3,000		
NC7S32M5XCT-ND	Single 2-Input OR Gate	SOT-23-5	.38	.29	.20
NC7S32M5XTR-ND	Single 2-Input OR Gate	SOT-23-5	230.40/3,000		
NC7S86M5XCT-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	.38	.29	.20
NC7S86M5XTR-ND	Single 2-Input Exclusive OR Gate	SOT-23-5	230.40/3,000		
NC7ST08M5XCT-ND	TinyLogic® HST 2-Input AND Gate* ***NEW!***	SOT-23-5	.32	.24	.17
NC7ST08M5XTR-ND	TinyLogic® HST 2-Input AND Gate* ***NEW!***	SOT-23-5	192.00/3,000		
NC7ST08P5XCT-ND	TinyLogic® HST 2-Input AND Gate* ***NEW!***	SC70-5	.28	.21	.15
NC7ST08P5XTR-ND	TinyLogic® HST 2-Input AND Gate* ***NEW!***	SC70-5	168.00/3,000		
NC7SU04M5XCT-ND	TinyLogic® HS Unbuffered Inverter* ***NEW!***	SOT-23-5	.32	.24	.17
NC7SU04M5XTR-ND	TinyLogic® HS Unbuffered Inverter* ***NEW!***	SOT-23-5	192.00/3,000		
UHS Series					
Surface Mount Product					
NC7NZ14K8XCT-ND	TinyLogic® UHS Inverter* ***NEW!***	US8	.50	.40	.30
NC7NZ14K8XTR-ND	TinyLogic® UHS Inverter* ***NEW!***	US8	405.00/3,000		
NC7NZ17K8XCT-ND	TinyLogic® UHS Triple Buffer* ***NEW!***	US8	.45	.36	.27
NC7NZ17K8XTR-ND	TinyLogic® UHS Triple Buffer* ***NEW!***	US8	364.50/3,000		
NC7NZ34K8XCT-ND	TinyLogic® UHS Triple Buffer* ***NEW!***	US8	.45	.36	.27
NC7NZ34K8XTR-ND	TinyLogic® UHS Triple Buffer* ***NEW!***	US8	360.45/3,000		
NC7SZ00M5XCT-ND	Single 2-Input NAND Gate	SOT-23-5	.34	.26	.18
NC7SZ00M5XTR-ND	Single 2-Input NAND Gate	SOT-23-5	201.60/3,000		
NC7SZ00P5XCT-ND	2-Input NAND Gate	SC70-5	.34	.26	.18
NC7SZ00P5XTR-ND	2-Input NAND Gate	SC70-5	201.60/3,000		
NC7SZ02M5XCT-ND	Single 2-Input NOR Gate	SOT-23-5	.38	.29	.20
NC7SZ02M5XTR-ND	Single 2-Input NOR Gate	SOT-23-5	230.40/3,000		
NC7SZ02P5XCT-ND	TinyLogic® UHS 2-Input NOR Gate* ***NEW!***	SC70-5	.28	.21	.15
NC7SZ02P5XTR-ND	TinyLogic® UHS 2-Input NOR Gate* ***NEW!***	SC70-5	168.00/3,000		
NC7SZ04M5XCT-ND	Single Inverter	SOT-23-5	.34	.26	.18
NC7SZ04M5XTR-ND	Single Inverter	SOT-23-5	201.60/3,000		
NC7SZ04P5XCT-ND	TinyLogic® UHS Inverter* ***NEW!***	SC70-5	.28	.21	.15
NC7SZ04P5XTR-ND	TinyLogic® UHS Inverter* ***NEW!***	SC70-5	168.00/3,000		
NC7SZ05M5XCT-ND	Single Inverter Open Drain	SOT-23-5	.34	.26	.18
NC7SZ05M5XTR-ND	Single Inverter Open Drain	SOT-23-5	201.60/3,000		
NC7SZ08M5XCT-ND	Single 2-Input AND Gate	SOT-23-5	.34	.26	.18
NC7SZ08M5XTR-ND	Single 2-Input AND Gate	SOT-23-5	201.60/3,000		
NC7SZ08P5XCT-ND	2-Input AND Gate	SC70-5	.34	.26	.18
NC7SZ08P5XTR-ND	2-Input AND Gate	SC70-5	201.60/3,000		
NC7SZ11P6XCT-ND	TinyLogic® UHS 3-Input AND Gate* ***NEW!***	SC70-6	.36	.29	.20
NC7SZ11P6XTR-ND	TinyLogic® UHS 3-Input AND Gate* ***NEW!***	SC70-6	243.00/3,000		
NC7SZ14M5XCT-ND	Schmitt Trigger Input Inverter	SOT-23-5	.34	.26	.18
NC7SZ14M5XTR-ND	Schmitt Trigger Input Inverter	SOT-23-5	201.60/3,000		
NC7SZ32M5XCT-ND	Single 2-Input OR Gate	SOT-23-5	.34	.26	.18
NC7SZ32M5XTR-ND	Single 2-Input OR Gate	SOT-23-5	201.60/3,000		
NC7SZ32P5XCT-ND	TinyLogic® UHS 2-Input OR Gate* ***NEW!***	SC70-5	.28	.21	.15
NC7SZ32P5XTR-ND	TinyLogic® UHS 2-Input OR Gate* ***NEW!***	SC70-5	168.00/3,000		
NC7SZ38M5XCT-ND	Single 2-Input NAND Gate (Open Drain Output)	SOT-23-5	.38	.29	.20
NC7SZ38M5XTR-ND	Single 2-Input NAND Gate (Open Drain Output)	SOT-23-5	230.40/3,000		
NC7SZ57P6XCT-ND	TinyLogic® UHS Univ. Config. 2-In. Logic Gates* ***NEW!***	SC70-6	.36	.29	.20
NC7SZ57P6XTR-ND	TinyLogic® UHS Univ. Config. 2-In. Logic Gates* ***NEW!***	SC70-6	243.00/3,000		
NC7SZ66M5XCT-ND	Low Voltage Single SPST Bus Switch	SOT-23-5	.37	.30	.21
NC7SZ66M5XTR-ND	Low Voltage Single SPST Bus Switch	SOT-23-5	306.00/3,000		
NC7SZ66P5XCT-ND	LV Single SPST Normally Open Bus Switch* ***NEW!***	SC70-5	.37	.28	.20
NC7SZ66P5XTR-ND	LV Single SPST Normally Open Bus Switch* ***NEW!***	SC70-5	306.00/3,000		
NC7SZ74K8XCT-ND	TinyLogic® UHS D-Type Flip-Flop with Preset Clear* ***NEW!***	US8	.47	.39	.27
NC7SZ74K8XTR-ND	TinyLogic® UHS D-Type Flip-Flop with Preset Clear* ***NEW!***	US8	372.30/3,000		
NC7SZ86M5XCT-ND	Sinlge 2-Input Exclusive OR Gate	SOT-23-5	.40	.32	.22
NC7SZ86M5XTR-ND	Sinlge 2-Input Exclusive OR Gate	SOT-23-5	272.16/3,000		
NC7SZ86P5XCT-ND	TinyLogic® UHS 2-Input Exclusive OR Gate* ***NEW!***	SC70-5	.34	.27	.19
NC7SZ86P5XTR-ND	TinyLogic® UHS 2-Input Exclusive OR Gate* ***NEW!***	SC70-5	226.80/3,000		
NC7SZ125M5XCT-ND	Single Tri-State Buffer OE=Low	SOT-23-5	.34	.27	.19
NC7SZ125M5XTR-ND	Single Tri-State Buffer OE=Low	SOT-23-5	226.80/3,000		
NC7SZ125P5XCT-ND	Tri-State Buffer	SC70-5	.34	.27	.19
NC7SZ125P5XTR-ND	Tri-State Buffer	SC70-5	226.80/3,000		
NC7SZ126M5XCT-ND	Single Tri-State Buffer OE=High	SOT-23-5	.34	.27	.19
NC7SZ126M5XTR-ND	Single Tri-State Buffer OE=High	SOT-23-5	226.80/3,000		
NC7SZ126P5XCT-ND	Tri-State Buffer	SC70-5	.34	.27	.19
NC7SZ126P5XTR-ND	Tri-State Buffer	SC70-5	226.80/3,000		
NC7SZ157P6XCT-ND	TinyLogic® UHS 2-Input Non-Inverting Mux.* ***NEW!***	SC70-6	.36	.29	.20
NC7SZ157P6XTR-ND	TinyLogic® UHS 2-Input Non-Inverting Mux.* ***NEW!***	SC70-6	243.00/3,000		
NC7SZ175P6XCT-ND	D-Type Flip-Flop with Async. Clear	SC70-6	.40	.32	.23
NC7SZ175P6XTR-ND	D-Type Flip-Flop with Async. Clear	SC70-6	272.16/3,000		
NC7SZ374P6XCT-ND	Tri-State TinyLogic® UHS D-Type Flip-Flop* ***NEW!***	SC70-6	.36	.29	.20
NC7SZ374P6XTR-ND	Tri-State TinyLogic® UHS D-Type Flip-Flop* ***NEW!***	SC70-6	243.00/3,000		
NC7SZ384M5XCT-ND	1-Bit Low Power Bus Switch	SOT-23-5	.43	.35	.24
NC7SZ384M5XTR-ND	1-Bit Low Power Bus Switch	SOT-23-5	324.00/3,000		
NC7SZU04M5XCT-ND	TinyLogic® UHS Unbuffered Inverter* ***NEW!***	SOT-23-5	.32	.24	.17
NC7SZU04M5XTR-ND	TinyLogic® UHS Unbuffered Inverter* ***NEW!***	SOT-23-5	192.00/3,000		
NC7WB66K8XCT-ND	LV Dual SPST Normally Open Analog Switch* ***NEW!***	US8	.40	.32	.24
NC7WB66K8XTR-ND	LV Dual SPST Normally Open Analog Switch* ***NEW!***	US8	468.00/3,000		
NC7WZ02K8XCT-ND	TinyLogic® UHS Dual 2-Input NOR Gate* ***NEW!***	US8	.50	.41	.28
NC7WZ02K8XTR-ND	TinyLogic® UHS Dual 2-Input NOR Gate* ***NEW!***	US8	392.70/3,000		
NC7WZ04P6XCT-ND	TinyLogic® UHS Dual Inverter* ***NEW!***	SC70-6	.42	.33	.23
NC7WZ04P6XTR-ND	TinyLogic® UHS Dual Inverter* ***NEW!***	SC70-6	280.80/3,000		
NC7WZ07P6XCT-ND	TinyLogic® UHS Dual Buffer, OD Outputs* ***NEW!***	SC70-6	.42	.33	.23
NC7WZ07P6XTR-ND	TinyLogic® UHS Dual Buffer, OD Outputs* ***NEW!***	SC70-6	280.80/3,000		
NC7WZ08K8XCT-ND	TinyLogic® UHS Dual 2-Input AND Gate* ***NEW!***	US8	.47	.39	.27
NC7WZ08K8XTR-ND	TinyLogic® UHS Dual 2-Input AND Gate* ***NEW!***	US8	372.30/3,000		
NC7WZ16P6XCT-ND	Dual Buffer	SC70-6	.41	.33	.23
NC7WZ16P6XTR-ND	Dual Buffer	SC70-6	318.24/3,000		
NC7WZ125K8XCT-ND	Tri-State TinyLogic® UHS Dual Buffer* ***NEW!***	US8	.47	.39	.27
NC7WZ125K8XTR-ND	Tri-State TinyLogic® UHS Dual Buffer* ***NEW!***	US8	372.30/3,000		
NC7WZ132K8XCT-ND	TinyLogic® UHS Dual 2-Input NAND Gate* ***NEW!***	US8	.50	.41	.28
NC7WZ132K8XTR-ND	TinyLogic® UHS Dual 2-Input NAND Gate* ***NEW!***	US8	392.70/3,000		
NC7WZ14P6XCT-ND	TinyLogic® UHS Dual Inverter* ***NEW!***	SC70-6	.42	.33	.23
NC7WZ14P6XTR-ND	TinyLogic® UHS Dual Inverter* ***NEW!***	SC70-6	280.80/3,000		
NC7WZ17P6XCT-ND	TinyLogic® UHS Dual Buffer* ***NEW!***	SC70-6	.42	.33	.23
NC7WZ17P6XTR-ND	TinyLogic® UHS Dual Buffer* ***NEW!***	SC70-6	280.80/3,000		
NC7WZ241K8XCT-ND	Tri-State TinyLogic® UHS Dual Buffer* ***NEW!***	US8	.50	.41	.28
NC7WZ241K8XTR-ND	Tri-State TinyLogic® UHS Dual Buffer* ***NEW!***	US8	392.70/3,000		
NC7WZ32K8XCT-ND	TinyLogic® UHS Dual 2-Input OR Gate* ***NEW!***	US8	.50	.41	.28
NC7WZ32K8XTR-ND	TinyLogic® UHS Dual 2-Input OR Gate* ***NEW!***	US8	392.70/3,000		
NC7WZU04P6XCT-ND	TinyLogic® UHS Dual Unbuffered Inverter* ***NEW!***	SC70-6	.35	.28	.20
NC7WZU04P6XTR-ND	TinyLogic® UHS Dual Unbuffered Inverter* ***NEW!***	SC70-6	237.60/3,000		
NC7SB3257P6XCT-ND	2:1 Multiplexer/Demultiplexer Bus Switch* ***NEW!***	SC70-6	.45	.36	.27
NC7SB3257P6XTR-ND	2:1 Multiplexer/Demultiplexer Bus Switch* ***NEW!***	SC70-6	468.00/3,000		
NC7SP17P5XCT-ND	TinyLogic® ULP Single Buffer* ***NEW!***	SC70-5	.41	.32	.23
NC7SP17P5XTR-ND	TinyLogic® ULP Single Buffer* ***NEW!***	SC70-5	275.40/3,000		
NC7SV04P5XCT-ND	TinyLogic® ULP-A Inverter* ***NEW!***	SC70-5	.32	.25	.18
NC7SV04P5XTR-ND	TinyLogic® ULP-A Inverter* ***NEW!***	SC70-5	216.00/3,000		

** RoHS Compliant*

OP AMPS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LF347NFS-ND	4MHz, High Speed Quad JFet Op Amp	14-Dip	.76	.57	.43
LM324AMFS-ND	0-70°C Quad Op Amp	14-SOP	.55	.44	.33
LM324ANFS-ND	0-70°C Quad Op Amp	14-Dip	.55	.44	.33
LM324MFS-ND	0-70°C Quad Op Amp	14-SOP	.55	.44	.33
LM324NFS-ND	0-70°C Quad Op Amp	14-Dip	.55	.44	.33
LM348NFS-ND	0-70°C Quad Op Amp	14-Dip	.56	.42	.32
LM741CNFS-ND	0-70°C Single Op Amp	8-Dip	.57	.46	.35
LM2902NFS-ND	-40-85°C Quad Op Amp	14-Dip	.50	.40	.30

RF POWER AMP MODULES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
RMPA0959CT-ND	CDMA and CDMA2000-1X PowerEdge™ Power Amp Module	4.0x4.0x1.5mm LCC	2.45	1.96	1.47
RMPA0959TR-ND	CDMA and CDMA2000-1X PowerEdge™ Power Amp Module	4.0x4.0x1.5mm LCC	3136.00/2,500		
RMPA0965CT-ND	Cellular CDMA, CDMA2000-1X and WCDMA PowerEdge™ Power Amp Module	3.0x3.0x1.0mm LCC	2.03	1.62	1.22
RMPA0965TR-ND	Cellular CDMA, CDMA2000-1X and WCDMA PowerEdge™ Power Amp Module	3.0x3.0x1.0mm LCC	5017.60/4,000		
RMPA1959CT-ND	PCS 3.4V CDMA and CDMA2000-1X PowerEdge™ Power Amp Module	4.0x4.0x1.5mm LCC	2.45	1.96	1.47
RMPA1959TR-ND	PCS 3.4V CDMA and CDMA2000-1X PowerEdge™ Power Amp Module	4.0x4.0x1.5mm LCC	3136.00/2,500		
RMPA1965CT-ND	US-PCS CDMA, CDMA2000-1X and WCDMA PowerEdge™ Power Amp Module	3.0x3.0x1.0mm LCC	2.03	1.62	1.22
RMPA1965TR-ND	US-PCS CDMA, CDMA2000-1X and WCDMA PowerEdge™ Power Amp Module	3.0x3.0x1.0mm LCC	5017.60/4,000		
RMPA2259CT-ND	28dBm WCDMA PowerEdge™ Power Amp Module	4.0x4.0x1.5mm LCC	2.45	1.96	1.47

(Continued)

RF POWER AMP MODULES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
RMPA2259TR-ND	28dBm WCDMA PowerEdge™ Power Amp Module	4.0x4.0x1.5mm LCC	3136.00/2,500		
RMPA2265CT-ND	Dual Band WCDMA PowerEdge™ Power Amp Module 1850 to 1910 MHz and 1920 to 1980MHz	3.0x3.0x1.0mm LCC	2.03	1.62	1.22
RMPA2265TR-ND	Dual Band WCDMA PowerEdge™ Power Amp Module 1850 to 1910 MHz and 1920 to 1980MHz	3.0x3.0x1.0mm LCC	5017.60/4,000		
RMPA2453CT-ND	2.4 to 2.5GHz InGaP HBT Linear Power Amp	3.0x3.0x0.9mm LCC	1.33	1.06	.80
RMPA2453TR-ND	2.4 to 2.5GHz InGaP HBT Linear Power Amp	3.0x3.0x0.9mm LCC	2713.60/4,000		
RMPA2455CT-ND	2.4 to 2.5GHz, 1W InGaP HBT Linear Power Amp	3.0x3.0x0.9mm LCC	2.25	1.80	1.35
RMPA2455TR-ND	2.4 to 2.5GHz, 1W InGaP HBT Linear Power Amp	3.0x3.0x0.9mm LCC	4608.00/4,000		
RMPA2550CT-ND	2.4 to 2.5GHz and 5.15 to 5.85GHz Dual Band InGaP HBT Linear Power Amp	3.0x4.0x0.9mm QFN	4.19	3.35	2.61
RMPA2550TR-ND	2.4 to 2.5GHz and 5.15 to 5.85GHz Dual Band InGaP HBT Linear Power Amp	3.0x4.0x0.9mm QFN	7030.80/3,000		
RMPA5251CT-ND	4.90 to 5.85GHz InGaP HBT Linear Power Amp	3.0x3.0x0.9mm QFN	2.03	1.62	1.22

SOTiny™

Surface Mount Product

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI74STX1G02CXCT-ND	Single 2-Input NOR Gate	SC70-5	.38	.29	.23
PI74STX1G02CXTR-ND	Single 2-Input NOR Gate	SC70-5	507.00/3,000		
PI74STX1G08CXCT-ND	Single 2-Input AND Gate	SC70-5	.38	.29	.23
PI74STX1G08CXTR-ND	Single 2-Input AND Gate	SC70-5	507.00/3,000		
PI74STX1G32CXCT-ND	Single 2-Input OR Gate	SC70-5	.38	.29	.23
PI74STX1G32CXTR-ND	Single 2-Input OR Gate	SC70-5	507.00/3,000		
PI74STX1G79CXCT-ND	Single Positive-Edge-Triggered D-Type Flip-Flop	SC70-5	.38	.29	.23
PI74STX1G86CXCT-ND	Single 2-Input XOR Gate	SC70-5	.38	.29	.23
PI74STX1G86CXTR-ND	Single 2-Input XOR Gate	SC70-5	507.00/3,000		
PI74STX1G125CXCT-ND	Buffer with Tri-State Output	SC70-5	.54	.41	.32
PI74STX1G125CXTR-ND	Buffer with Tri-State Output	SC70-5	717.00/3,000		
PI74STX1G126CXCT-ND	Buffer with Tri-State Output	SC70-5	.54	.41	.32
PI74STX1G126CXTR-ND	Buffer with Tri-State Output	SC70-5	717.00/3,000		

74ALVCH LOGIC (ADVANCED LOW VOLTAGE CMOS w/HOLD)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI74ALVCH16244A-ND	16-Bit Buffer/Line Driver	48-TSSOP	2.40	1.92	1.60
PI74ALVCH16245A-ND	16-Bit Bidirectional Bus Transceiver	48-TSSOP	2.40	1.92	1.60
PI74ALVCH16374A-ND	16-Bit Edge Triggered D-Type Flip-Flop	48-TSSOP	2.40	1.92	1.60

DOUBLE DENSITY 2.5 VOLT ALVTC LOGIC WITH TOLERANT I/O AND BUS HOLD

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI74ALVTC16241A-ND	Tri-State, 16-Bit Buffer/Driver	48-TSSOP	2.90	2.28	1.82
PI74ALVTC16244A-ND	16-Bit Buffer/Line Driver	48-TSSOP	2.90	2.28	1.82
PI74ALVTC16244K-ND	Tri-State, 16-Bit Buffer/Driver	48-TVSOP	3.24	2.55	2.03

DOUBLE DENSITY VCX LOGIC WITH TOLERANT I/O AND BUS HOLD

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI74VCX16244A-ND	16-Bit Buffer/Line Driver	48-TSSOP	3.34	2.63	2.09
PI74VCX16245A-ND	16-Bit Bidirectional Transceiver	48-TSSOP	3.34	2.63	2.09
PI74VCX16374A-ND	16-Bit D-Type Flip-Flop	48-TSSOP	3.34	2.63	2.09

LAN / ANALOG SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI5A100W-ND	Quad SPDT Analog Switch	16-SOIC	2.16	1.86	1.67
PI5A319AW-ND	Single SPDT Analog Switch	8-SOIC	1.22	1.06	.95
PI5A391AP-ND	Quad SPST Analog Switch	16-Dip	1.85	1.59	1.43
PI5L200Q-ND	Quad SPDT LAN Switch	16-QSOP	2.32	1.81	1.48
PI5V330W-ND	Quad 2/1 Multiplexer/Demultiplexer	16-SOIC	2.24	1.92	1.76
PS301CSA-ND	SPST, 17V Analog Switch	8-SOIC	1.19	1.02	.92
PS302CSA-ND	SPST, 17V Analog Switch	8-SOIC	1.01	.87	.79
PS320ESA-ND	Dual SPST, 17V N.O. Analog Switch	8-SOIC	1.01	.87	.79
PS323ESA-ND	Dual SPST, 17V N.O. Analog Switch	8-SOIC	1.01	.87	.79
PS383ESE-ND	Dual SPDT, 17V Analog Switch	16-SOIC	2.83	2.43	2.18
PS391ESE-ND	Quad SPST, 17V N.C. Analog Switch	16-SOIC	2.11	1.81	1.63
PS392CSE-ND	Quad SPST, 17V N.O. Analog Switch	16-SOIC	2.07	1.79	1.60
PS392ESE-ND	Quad SPST, 17V N.O. Analog Switch	16-SOIC	2.11	1.81	1.63
PS393ESE-ND	Quad SPST, 17V (2)N.O., (2)N.C. Analog Switch	16-SOIC	2.11	1.81	1.63

LVDS DATA TRANSMISSION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI90LV022L-ND	LVDS 2x2 Mux/Repeater	16-TSSOP	4.90	4.20	3.75
PI90LV027AW-ND	Dual LVDS Line Driver	8-SOIC	2.24	1.92	1.72
PI90LV028AW-ND	Dual LVDS Line Receiver	8-SOIC	2.24	1.92	1.72
PI90LV031AW-ND	Quad LVDS Line Driver	16-SOIC	3.73	3.20	2.86
PI90LV032AW-ND	Quad LVDS Line Receiver	16-SOIC	3.73	3.20	2.86
PI90LV047AL-ND	3V, Quad LVDS Differential Line Driver	16-TSSOP	2.74	2.50	2.28
PI90LV048AL-ND	3V, Quad LVDS Differential Line Receiver	16-TSSOP	2.74	2.50	2.28
PI90LV050L-ND	Dual LVDS Driver/Receiver	16-TSSOP	2.98	2.55	2.28
PI90LV051L-ND	Dual LVDS Transceiver (Single EN)	16-TSSOP	2.98	2.55	2.28
PI90LV179W-ND	Single LVDS Transceiver	8-SOIC	2.61	2.24	2.01
PI90LV180W-ND	Single LVDS Transceiver (EN)	14-SOIC	3.15	2.70	2.41
PI90LVB022L-ND	LVDS 2x2 Mux/Repeater	16-TSSOP	6.65	5.70	5.09
PI90LVB050L-ND	Dual Hi-Drive LVDS Transceiver (EN)	16-TSSOP	3.22	2.94	2.68
PI90LVB051L-ND	Dual Hi-Drive LVDS Transceiver (EN)	16-TSSOP	3.03	2.60	2.32
PI90LVB16L-ND	Bus LVDS 1/6 Clock Buffer	24-TSSOP	7.00	6.00	4.44
PI90LVB179W-ND	Single Hi-Drive LVDS Transceiver	8-SOIC	1.94	1.67	1.49
PI90LVB180W-ND	Single Hi-Drive LVDS Transceiver (EN)	14-SOIC	2.45	2.10	1.88

74AVC 2.5VOLT BUS DRIVERS AND FLIP-FLOPS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI74AVC+16244A-ND	Tri-State, 16-Bit Buffer/Driver	48-TSSOP	2.74	2.50	2.28
PI74AVC+16245A-ND	Tri-State, 16-Bit Bidirectional Transceiver	48-TSSOP	2.74	2.50	2.28
PI74AVC+16268A-ND	Tri-State, 12-Bit to 24-Bit Registered Bus Exchanger	56-TSSOP	2.74	2.50	2.28
PI74AVC+16345A-ND	Tri-State, 1-Bit to 4-Bit Registered Address Driver	56-TSSOP	3.77	3.44	3.14
PI74AVC+16374A-ND	Tri-State, 16-Bit D-Type Flip-Flop	48-TSSOP	2.74	2.50	2.28
PI74AVC+16646A-ND	Tri-State, 16-Bit Bus Transceiver and Register	56-TSSOP	3.04	2.78	2.54
PI74AVC+16721A-ND	Tri-State, 20-Bit Flip-Flop	56-TSSOP	2.74	2.50	2.28
PI74AVC+16820A-ND	Tri-State, 10-Bit Flip-Flop with Dual Outputs	56-TSSOP	2.74	2.50	2.28
PI74AVC+16836A-ND	Tri-State, 20-Bit Universal Bus Driver	56-TSSOP	2.38	2.18	1.99
PI74AVC164245A-ND	Tri-State, 3.3V to 1.8V, 16-Bit Level Shifter	48-TSSOP	3.29	3.00	2.74
PI74AVC164245LAA-ND	Tri-State, 3.3V to 1.5V, 16-Bit Level Shifter	48-TSSOP	3.90	3.56	3.25
PI74AVC16834A-ND	Tri-State, 18-Bit Universal Bus Driver	56-TSSOP	2.98	2.39	1.99
PI74AVC16835A-ND	Tri-State, 18-Bit Universal Bus Driver	56-TSSOP	2.98	2.39	1.99

FCT LOGIC STANDARD 5 VOLT

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI74FCT244ATQ-ND	Octal Buffer/Line Driver	20-QSOP	.74	.68	.62
PI74FCT244ATS-ND	Octal Buffer/Line Driver	20-SOIC	.74	.68	.62
PI74FCT245ATQ-ND	Octal Bidirectional Transceiver	20-QSOP	.74	.68	.62
PI74FCT273ATQ-ND	Octal D-Type Flip-Flop with Reset	20-QSOP	.74	.68	.62
PI74FCT273ATS-ND	Octal D-Type Flip-Flop with Reset	20-SOIC	.74	.68	.62
PI74FCT374ATS-ND	Octal D-Type Register, Tri-State	20-SOIC	.74	.68	.62
PI74FCT541ATQ-ND	Non-Invert Octal Buffer/Line Driver	20-QSOP	.94	.86	.79
PI74FCT541ATS-ND	Non-Invert Octal Buffer/Line Driver	20-SOIC	.94	.86	.79
PI74FCT543ATS-ND	Non-Invert Octal Latched Transceiver	24-SOIC	1.23	1.13	1.02
PI74FCT574ATQ-ND	Octal D-Type Register, Tri-State	20-QSOP	.74	.68	.62
PI74FCT574ATS-ND	Octal D-Type Register, Tri-State	20-SOIC	.74	.68	.62

74FCT – STANDARD 5 VOLT FCT WITH 25 OHM SERIES OUTPUT RESISTOR

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI74FCT2241ATQ-ND	Inverting Octal Buffer/Line Driver	20-QSOP	.74	.68	.62
PI74FCT2244ATQ-ND	Octal Buffer/Line Driver	20-QSOP	.74	.68	.62
PI74FCT2245ATQ-ND	Octal Bidirectional Transceiver	20-QSOP	.74	.68	.62
PI74FCT2273ATQ-ND	Octal D-Type Flip-Flop	20-QSOP	.74	.68	.62
PI74FCT2374ATQ-ND	Octal D-Type Register	20-QSOP	.74	.68	.62
PI74FCT2541ATQ-ND	Non-Invert Octal Latched Transceiver	20-QSOP	.94	.86	.79

74FCT – DOUBLE DENSITY STANDARD 5 VOLT FCT LOGIC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI74FCT16245ATV-ND	16-Bit Bidirectional Transceiver	48-SSOP	1.44	1.31	1.19
PI74FCT16374ATA-ND	16-Bit Register	48-TSSOP	1.44	1.31	1.19

74FCT – DOUBLE DENSITY STANDARD 5V LOGIC WITH BALANCED OUTPUT DRIVE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI74FCT162244ATA-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.44	1.31	1.19
PI74FCT162244ATV-ND	16-Bit Buffer/Line Driver	48-SSOP	1.44	1.31	1.19
PI74FCT162245ATA-ND	16-Bit Bidirectional Transceiver	48-TSSOP	1.44	1.31	1.19
PI74FCT162245ATV-ND	16-Bit Bidirectional Transceiver	48-SSOP	1.44	1.31	1.19
PI74FCT162374ATV-ND	16-Bit Register	48-SSOP	1.44	1.31	1.19
PI74FCT162541ATV-ND	16-Bit Buffer/Line Driver	48-SSOP	1.86	1.69	1.54

74LPT – STANDARD 3.3 VOLT LOGIC WITH 5 VOLT TOLERANT I/O

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI74LPT244AQ-ND	Octal Buffer/Line Driver	20-QSOP	.78	.73	.71
PI74LPT244AS-ND	Octal Buffer/Line Driver	20-SOIC	.78	.73	.71
PI74LPT541AQ-ND	Non-Inverting Octal Buffer/Line Driver	20-QSOP	.78	.73	.71

74LPT – DOUBLE DENSITY 3.3 VOLT LOGIC WITH 5 VOLT TOLERANT I/O

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PI74LPT16244AA-ND	16-Bit Buffer/Line Driver	48-TSSOP	1.18	1.11	1.08
PI74LPT16244AV-ND	16-Bit Buffer/Line Driver	48-SSOP	1.18	1.11	1.08
PI74LPT16245AA-ND	16-Bit Bidirectional Transceiver	48-TSSOP	1.18	1.11	1.08
PI74LPT16245AV-ND	16-Bit Bidirectional Transceiver	48-SSOP	1.18	1.11	1.08
PI74LPT16374AA-ND	16-Bit Octal Register	48-TSSOP	1.18	1.11	1.08

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

PERICOM Semiconductor Corporation — 3.3 VOLT BUS SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI3B16211A-ND	24-Bit Bus Switch	56-TSSOP	2.40	2.19	2.01
PI3B16212A-ND	24-Bit Bus Exchange	56-TSSOP	2.40	2.19	2.01
PI3B16233A-ND	16-32-Bit FET Mux/Demux Bus Switch	56-TSSOP	2.40	2.19	2.01
PI3B16245A-ND	Hot Insertion, 16-Bit, 2-Port Bus Switch	48-BQSOP	2.40	2.19	2.01
PI3B3251Q-ND	8-1 Mux/Demux Hot Insertion Bus Switch	16-QSOP	1.18	1.04	.96
PI3B3257Q-ND	Quad 2-1 Mux/Demux Hot Insertion Bus Switch	16-QSOP	1.18	1.04	.96
PI3B33X257B-ND	12-24 Multiplexer/Demultiplexer Bus Switch	48-BQSOP	3.33	3.04	2.77
PI3C3125Q-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch with Individual Enables	16-QSOP	1.09	.85	.70
PI3C3126Q-ND	Hot Insertion, 4-Bit, 2-Port, Bus Switch with Individual Enables	16-QSOP	1.09	.85	.70
PI3C3245Q-ND	Hot Insertion, 8-Bit, 2-Port Bus Switch	20-QSOP	1.16	.91	.74
PI3C3384Q-ND	3.3V High Bandwidth, Hot Insertion, 10-Bit, 2-Port Bus Switch	24-QSOP	1.16	.91	.74
PI3C3861Q-ND	3.3V High Bandwidth, Hot Insertion, 10-Bit, 2-Port Bus Switch	24-QSOP	1.16	.91	.74
PI3C16212A-ND	3.3V, High Bandwidth Bus Switch	56-TSSOP	2.89	2.48	1.83
PI3C34X461NB-ND	3.3V, 40-Bit Bus Switch (861 function)	96-LFBGA	3.82	3.27	2.42
PI3C34X484NB-ND	3.3V, 40-Bit Bus Switch (384 function)	96-LFBGA	3.82	3.27	2.42

PERICOM Semiconductor Corporation — LOW VOLTAGE TRANSLATOR BUS SWITCH

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI3VT32X245B-ND	16-Bit, Low Voltage Level Shifting Switch	40-BQSOP	1.85	1.69	1.55
PI3VT34X245B-ND	32-Bit, Low Voltage Level Shifting Switch	80-BQSOP	3.43	3.14	2.86
PI3VT3245L-ND	8-Bit, Low Voltage Level Shifting Switch	20-TSSOP	1.07	.98	.90
PI3VT3306L-ND	2-Bit, 2-Port, Low Voltage Translator Bus Switch	8-TSSOP	1.16	.99	.88
PI3VT3384L-ND	10-Bit, 2-Port, Low Voltage Translator Bus Switch	24-TSSOP	1.51	1.29	1.15
PI3VT3861L-ND	10-Bit, 2-Port, Low Voltage Translator Bus Switch	24-TSSOP	1.51	1.29	1.15

PERICOM Semiconductor Corporation — 5 VOLT BUS SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI5C32X245B-ND	16-Bit Bus Switch	40-BQSOP	2.02	1.58	1.30
PI5C34X245B-ND	32-Bit Bus Switch	80-BQSOP	2.59	2.35	2.13
PI5C3125Q-ND	Quad Bus Switch with Individual Enable	16-QSOP	.71	.63	.58
PI5C3244S-ND	8-Bit, 2-Port Bus Switch (FCT244 Pinout)	20-SOIC	.72	.64	.59
PI5C3245Q-ND	8-Bit, 2-Port Bus Switch (FCT245 Pinout)	20-QSOP	.72	.64	.59
PI5C3245S-ND	8-Bit, 2-Port Bus Switch (FCT245 Pinout)	20-SOIC	.72	.64	.59
PI5C3251Q-ND	8:1 Mux/Demux Bus Switch	16-QSOP	.72	.64	.59
PI5C3253Q-ND	Dual 4:1 Mux/Demux Bus Switch	16-QSOP	.72	.66	.60
PI5C3257Q-ND	Quad 2:1 Mux/Demux Bus Switch	16-QSOP	.72	.66	.60
PI5C3257S-ND	Quad 2:1 Mux/Demux Bus Switch	16-SOIC	.72	.66	.60
PI5C3383Q-ND	5-Bit, 4-Port Swappable Bus Switch	24-QSOP	.72	.66	.60
PI5C3384Q-ND	10-Bit, 2-Port Bus Switch	24-QSOP	.72	.66	.60
PI5C3861Q-ND	10-Bit, 2-Port Bus Switch	24-QSOP	.73	.57	.51
PI5C16211A-ND	24-Bit, Bus Switch	56-TSSOP	1.98	1.79	1.62
PI5C16212V-ND	25-Bit, Bus Switch	56-SSOP	1.98	1.79	1.62
PI5C16862CA-ND	5V, 20-Bit Bus Switch	48-TSSOP	2.15	1.85	1.65

PERICOM Semiconductor Corporation — VIDEO SWITCH PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI5V330Q-ND	Quad 2-1 Multiplexer Video Switch	16-QSOP	2.12	1.92	1.74
PI5V331Q-ND	Dual 4-Channel Video Multiplexer/Demultiplexer	16-QSOP	2.12	1.92	1.74
PI5V332Q-ND	Quad Video Switch	16-QSOP	2.12	1.92	1.74

PERICOM Semiconductor Corporation — CLOCK DISTRIBUTION PRODUCTS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
PI49FCT804ATS-ND	Non-Inverting Clock Driver	16-SOIC	3.92	3.57	3.13
PI49FCT805ATQ-ND	Non-Inverting Clock Driver	20-QSOP	2.99	2.73	2.39
PI49FCT805ATS-ND	Non-Inverting Clock Driver	20-SOIC	2.99	2.73	2.39
PI49FCT807ATS-ND	10-Output Non-Inverting Clock Driver	20-SOIC	2.99	2.73	2.39
PI49FCT3803L-ND	156MHz, 7-Output Non-Inverting Clock Driver	16-TSSOP	1.49	1.36	1.25
PI49FCT3803Q-ND	156MHz, 7-Output Non-Inverting Clock Driver	16-QSOP	1.49	1.36	1.25
PI49FCT3805AQ-ND	Non-Inverting Clock Driver	20-QSOP	2.99	2.73	2.39
PI49FCT3805AS-ND	Non-Inverting Clock Driver	20-SOIC	2.99	2.73	2.39
PI49FCT3807AQ-ND	10-Output Non-Inverting Clock Driver	20-QSOP	2.99	2.73	2.39
PI49FCT3807AS-ND	10-Output Non-Inverting Clock Driver	20-SOIC	2.99	2.73	2.39
PI49FCT3807DQ-ND	156MHz, 10-Output Non-Inverting Clock Driver	20-QSOP	5.41	4.95	4.51
PI49FCT3807DS-ND	156MHz, 10-Output Non-Inverting Clock Driver	20-SOIC	5.41	4.95	4.51
9269B-ND	Data Book on CD-ROM	—	9.90	—	—

TOSHIBA — 74AC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74AC00FN-ND	Quad 2-Input NAND Gate	14-SOL	.46	.37	.28
TC74AC00FNFCT-ND	Quad 2-Input NAND Gate* **NEW!**	14-SOL	.46	.37	.28
TC74AC00FNFTR-ND	Quad 2-Input NAND Gate* **NEW!**	14-SOL	307.13/2,500		
TC74AC00FNTR-ND	Quad 2-Input NAND Gate	14-SOL	307.13/2,500		
TC74AC00P-ND	Quad 2-Input NAND Gate	14-Dip	.46	.37	.28
TC74AC00PF-ND	Quad 2-Input NAND Gate* **NEW!**	14-Dip	.46	.37	.28
TC74AC02FNTR-ND	Quad 2-Input NOR Gate	14-SOL	320.63/2,500		
TC74AC02FNFCT-ND	Quad 2-Input NOR Gate* **NEW!**	14-SOL	.48	.38	.29
TC74AC02FNFTR-ND	Quad 2-Input NOR Gate* **NEW!**	14-SOL	320.63/2,500		
TC74AC02P-ND	Quad 2-Input NOR Gate	14-Dip	.48	.38	.29
TC74AC02PF-ND	Quad 2-Input NOR Gate* **NEW!**	14-Dip	.48	.38	.29
TC74AC04FN-ND	Hex Inverter	14-SOL	.46	.37	.28
TC74AC04FNF-ND	Hex Inverter* **NEW!**	14-SOL	.46	.37	.28
TC74AC08FN-ND	Quad 2-Input AND Gate	14-SOL	.46	.37	.28
TC74AC08FNTR-ND	Quad 2-Input AND Gate	14-SOL	307.13/2,500		
TC74AC14FN-ND	Hex Schmitt Trigger Inverter	14-SOL	.55	.44	.33
TC74AC14FNF-ND	Hex Schmitt Trigger Inverter* **NEW!**	14-SOL	.55	.44	.33
TC74AC32FN-ND	Quad 2-Input OR Gate	14-SOL	.48	.38	.29
TC74AC32FNF-ND	Quad 2-Input OR Gate* **NEW!**	14-SOL	.48	.38	.29
TC74AC32FNTR-ND	Quad 2-Input OR Gate	14-SOL	320.63/2,500		
TC74AC32FNFCT-ND	Quad 2-Input OR Gate* **NEW!**	14-SOL	.48	.38	.29
TC74AC32FNFTR-ND	Quad 2-Input OR Gate* **NEW!**	14-SOL	320.63/2,500		
TC74AC74FN-ND	Dual D-Type Flip-Flop with Preset and Clear	14-SOL	.48	.39	.29
TC74AC74FNTR-ND	Dual D-Type Flip-Flop with Preset and Clear	14-SOL	324.00/2,500		
TC74AC74P-ND	Dual D-Type Flip-Flop with Preset and Clear	14-Dip	.48	.39	.29
TC74AC86FN-ND	Quad Exclusive OR Gate	14-SOL	.50	.40	.30
TC74AC86FNF-ND	Quad Exclusive OR Gate* **NEW!**	14-SOL	.50	.40	.30
TC74AC125FN-ND	Quad Bus Buffer, Tri-State	14-SOL	.60	.45	.34
TC74AC125FNTR-ND	Quad Bus Buffer, Tri-State	14-SOL	484.25/2,500		
TC74AC138FN-ND	3-to-8 Line Decoder	16-SOL	.55	.42	.31
TC74AC138FNTR-ND	3-to-8 Line Decoder	16-SOL	461.50/2,500		
TC74AC138P-ND	3-to-8 Line Decoder	16-Dip	.57	.43	.32
TC74AC157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.84	.63	.48
TC74AC244P-ND	Octal Bus Buffer, Tri-State	20-Dip	.73	.55	.41
TC74AC244PF-ND	Octal Bus Buffer, Tri-State* **NEW!**	20-Dip	.73	.55	.41
TC74AC245FWTR-ND	Octal Bus Transceiver, Tri-State	20-SOL	227.43/1,000		
TC74AC245P-ND	Octal Bus Transceiver, Tri-State	20-Dip	.73	.55	.41
TC74AC245PF-ND	Octal Bus Transceiver, Tri-State* **NEW!**	20-Dip	.73	.55	.41
TC74AC373P-ND	Octal D-Type Latch, Tri-State	20-Dip	.73	.55	.41
TC74AC573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.77	.58	.44

TOSHIBA — 74ACT SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74ACT00FN-ND	Quad 2-Input NAND Gate	14-SOL	.51	.41	.31
TC74ACT00FNF-ND	Quad 2-Input NAND Gate* **NEW!**	14-SOL	.51	.41	.31
TC74ACT00FNTR-ND	Quad 2-Input NAND Gate	14-SOL	357.50/2,500		
TC74ACT00FNFCT-ND	Quad 2-Input NAND Gate* **NEW!**	14-SOL	.55	.44	.33
TC74ACT00FNFTR-ND	Quad 2-Input NAND Gate* **NEW!**	14-SOL	371.25/2,500		
TC74ACT00P-ND	Quad 2-Input NAND Gate	14-Dip	.51	.41	.31
TC74ACT02FN-ND	Quad 2-Input NOR Gate	14-SOL	.47	.38	.28
TC74ACT04FN-ND	Hex Inverter	14-SOL	.52	.42	.31
TC74ACT04FNTR-ND	Hex Inverter	14-SOL	347.63/2,500		
TC74ACT08FN-ND	Quad 2-Input AND Gate	14-SOL	.48	.38	.29
TC74ACT14FN-ND	Hex Schmitt Trigger Inverter	14-SOL	.53	.43	.32
TC74ACT14FNF-ND	Hex Schmitt Trigger Inverter* **NEW!**	14-SOL	.53	.43	.32
TC74ACT32FN-ND	Quad 2-Input OR Gate	14-SOL	.52	.42	.31
TC74ACT32FNTR-ND	Quad 2-Input OR Gate	14-SOL	347.63/2,500		
TC74ACT74FN-ND	Dual D-Type Flip-Flop with Preset and Clear	14-SOL	.50	.40	.30
TC74ACT138FNTR-ND	3-to-8 Line Decoder	16-SOL	461.50/2,500		
TC74ACT138P-ND	3-to-8 Line Decoder	16-Dip	.57	.43	.32
TC74ACT139FN-ND	Dual 2-to-4 Line Decoder	16-SOL	.57	.43	.32
TC74ACT157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.73	.55	.42
TC74ACT244FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.73	.55	.41
TC74ACT244FWTR-ND	Octal Bus Buffer, Tri-State	20-SOL	242.06/1,000		
TC74ACT244P-ND	Octal Bus Buffer, Tri-State	20-Dip	.73	.55	.41
TC74ACT244PF-ND	Octal Bus Buffer, Tri-State* **NEW!**	20-Dip	.73	.55	.41
TC74ACT257FN-ND	Quad 2-Channel Multiplexer	16-SOL	.88	.66	.50
TC74ACT257FNF-ND	Quad 2-Channel Multiplexer* **NEW!**	16-SOL	.88	.66	.50
TC74ACT257FNTR-ND	Quad 2-Channel Multiplexer	16-SOL	578.50/2,500		
TC74ACT273FW-ND	Octal D-Type Flip-Flop with Clear	20-SOL	.83	.69	.56
TC74ACT373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.73	.55	.41
TC74ACT374FW-ND	Octal D-Type Flip-Flop	20-SOL	.73	.55	.41
TC74ACT541FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.77	.58	.44
TC74ACT541P-ND	Octal Bus Buffer, Tri-State	20-Dip	.77	.58	.44
TC74ACT541PF-ND	Octal Bus Buffer, Tri-State* **NEW!**	20-Dip	.77	.58	.44
TC74ACT573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.77	.58	.44
TC74ACT574FW-ND	Octal D-Type Flip-Flop, Tri-State	20-SOL	.77	.58	.44

TOSHIBA — 74HC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC74HC00AFN-ND	Quad 2-Input NAND Gate	14-SOL	.47	.38	.26
TC74HC00AFNF-ND	Quad 2-Input NAND Gate* **NEW!**	14-SOL	.47	.38	.26
TC74HC00AFNTR-ND	Quad 2-Input NAND Gate	14-SOL	243.00/2,500		
TC74HC00AFNFCT-ND	Quad 2-Input NAND Gate* **NEW!**	14-SOL	.47	.38	.26
TC74HC00AFNFTR-ND	Quad 2-Input NAND Gate* **NEW!**	14-SOL	306.00/2,500		
TC74HC00AP-ND	Quad 2-Input NAND Gate	14-Dip	.36	.29	.22
TC74HC00APF-ND	Quad 2-Input NAND Gate* **NEW!**	14-Dip	.47	.38	.26
TC74HC02AFN-ND	Quad 2-Input NOR Gate	14-SOL	.49	.40	.27
TC74HC02AFNF-ND	Quad 2-Input NOR Gate* **NEW!**	14-SOL	.49	.40	.27
TC74HC02AFNTR-ND	Quad 2-Input NOR Gate	14-SOL	301.75/2,500		
TC74HC02AP-ND	Quad 2-Input NOR Gate	14-Dip	.49	.40	.27
TC74HC02APF-ND	Quad 2-Input NOR Gate* **NEW!**	14-Dip	.49	.40	.27
TC74HC03AP-ND	Quad 2-Input NAND Gate with Open Drain	14-Dip	.56	.45	.34
TC74HC04AFN-ND	Hex Inverter	14-SOL	.49	.40	.27
TC74HC04AFNF-ND	Hex Inverter* **NEW!**	14-SOL	.49	.40	.27
TC74HC04AFNTR-ND	Hex Inverter	14-SOL	301.75/2,500		
TC74HC04AFNFCT-ND	Hex Inverter* **NEW!**	14-SOL	.46	.38	.26
TC74HC04AFNFTR-ND	Hex Inverter* **NEW!**	14-SOL	301.75/2,500		
TC74HC04AP-ND	Hex Inverter	14-Dip	.36	.29	.22
TC74HC04APF-ND	Hex Inverter* **NEW!**	14-Dip	.47	.38	.26
TC74HC05AP-ND	Hex Inverter with Open Drain	14-Dip	.56	.45	.34
TC74HC08AFN-ND	Quad 2-Input AND Gate	14-SOL	.49	.40	.27
TC74HC08AFNF-ND	Quad 2-Input AND Gate* **NEW!**	14-SOL	.49	.40	.27
TC74HC08AFNTR-ND	Quad 2-Input AND Gate	14-SOL	280.50/2,500		
TC74HC08AFNFCT-ND	Quad 2-Input AND Gate* **NEW!**	14-SOL	.43	.35	.24
TC74HC08AFNFTR-ND	Quad 2-Input AND Gate* **NEW!**	14-SOL	280.50/2,500		
TC74HC08AP-ND	Quad 2-Input AND Gate	14-Dip	.38	.30	.23
TC74HC08APF-ND	Quad 2-Input AND Gate* **NEW!**	14-Dip	.49	.40	.27
TC74HC10AP-ND	Triple 3-Input NAND Gate	14-Dip	.56	.45	.34
TC74HC10APF-ND	Triple 3-Input NAND Gate* **NEW!**	14-Dip	.56	.45	.34
TC74HC14AFN-ND	Hex Schmitt Trigger Inverter	14-SOL	.37	.30	.23
TC74HC14AFNF-ND	Hex Schmitt Trigger Inverter* **NEW!**	14-SOL	.48	.39	.27
TC74HC14AFNFCT-ND	Hex Schmitt Trigger Inverter* **NEW!**	14-SOL	.48	.39	.27
TC74HC14AFNFTR-ND	Hex Schmitt Trigger Inverter* **NEW!**	14-SOL	314.50/2,500		
TC74HC14AP-ND	Hex Schmitt Trigger Inverter	14-Dip	.39	.32	.24

**RoHS Compliant*

(Continued)

TOSHIBA 74HC SERIES *(Continued)*

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
TC74HC14APF-ND	Hex Schmitt Trigger Inverter* ***NEW!***	14-Dip	.51	.41	.29
TC74HC32AFN-ND	Quad 2-Input OR Gate	14-SOL	.49	.40	.27
TC74HC32AFNF-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOL	.49	.40	.27
TC74HC32AFNTR-ND	Quad 2-Input OR Gate	14-SOL	293.25/2,500		
TC74HC32AFNFCT-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOL	.45	.37	.25
TC74HC32AFNFTR-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOL	293.25/2,500		
TC74HC32AP-ND	Quad 2-Input OR Gate	14-Dip	.49	.40	.27
TC74HC32APF-ND	Quad 2-Input OR Gate* ***NEW!***	14-Dip	.49	.40	.27
TC74HC74AFN-ND	Dual D-Type Flip-Flop with Preset and Clear	14-SOL	.51	.41	.29
TC74HC74AFNF-ND	Dual D-Type Flip-Flop with Preset and Clear* ***NEW!***	14-SOL	.51	.41	.29
TC74HC74AFNTR-ND	Dual D-Type Flip-Flop with Preset and Clear	14-SOL	314.50/2,500		
TC74HC74AP-ND	Dual D-Type Flip-Flop with Preset and Clear	14-Dip	.51	.41	.29
TC74HC74APF-ND	Dual D-Type Flip-Flop with Preset and Clear* ***NEW!***	14-Dip	.51	.41	.29
TC74HC86AP-ND	Quad Exclusive OR Gate	14-Dip	.47	.36	.27
TC74HC86APF-ND	Quad Exclusive OR Gate* ***NEW!***	14-Dip	.59	.47	.36
TC74HC123AP-ND	Dual Monostable Multivibrator	16-Dip	.52	.39	.30
TC74HC123APF-ND	Dual Monostable Multivibrator* ***NEW!***	16-Dip	.52	.39	.30
TC74HC125AFN-ND	Quad Bus Buffer, Tri-State	14-SOL	.41	.31	.24
TC74HC125AFNF-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-SOL	.52	.42	.31
TC74HC125AFNTR-ND	Quad Bus Buffer, Tri-State	14-SOL	334.13/2,500		
TC74HC125AFNFCT-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-SOL	.50	.40	.30
TC74HC125AFNFTR-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-SOL	334.13/2,500		
TC74HC125APF-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-Dip	.52	.42	.31
TC74HC132AFN-ND	Quad 2-Input Schmitt NAND Gate	14-SOL	.53	.40	.30
TC74HC132AFNF-ND	Quad 2-Input Schmitt NAND Gate* ***NEW!***	14-SOL	.53	.40	.30
TC74HC132AP-ND	Quad 2-Input Schmitt NAND Gate	14-Dip	.57	.43	.32
TC74HC132APF-ND	Quad 2-Input Schmitt NAND Gate* ***NEW!***	14-Dip	.57	.43	.32
TC74HC138AFN-ND	3-to-8 Line Decoder	16-SOL	.47	.38	.28
TC74HC138AFNF-ND	3-to-8 Line Decoder* ***NEW!***	16-SOL	.47	.38	.28
TC74HC138AFNFCT-ND	3-to-8 Line Decoder* ***NEW!***	16-SOL	.45	.36	.27
TC74HC138AFNFTR-ND	3-to-8 Line Decoder* ***NEW!***	16-SOL	303.75/2,500		
TC74HC138AP-ND	3-to-8 Line Decoder	16-Dip	.52	.42	.31
TC74HC138APF-ND	3-to-8 Line Decoder* ***NEW!***	16-Dip	.52	.42	.31
TC74HC139AFN-ND	Dual 2-to-4 Line Decoder	16-SOL	.52	.42	.31
TC74HC139AFNF-ND	Dual 2-to-4 Line Decoder* ***NEW!***	16-SOL	.52	.42	.31
TC74HC139AFNTR-ND	Dual 2-to-4 Line Decoder	16-SOL	334.13/2,500		
TC74HC139AP-ND	Dual 2-to-4 Line Decoder	16-Dip	.52	.42	.31
TC74HC139APF-ND	Dual 2-to-4 Line Decoder* ***NEW!***	16-Dip	.52	.42	.31
TC74HC157AP-ND	Quad 2-Channel Multiplexer	16-Dip	.55	.42	.32
TC74HC173AP-ND	Quad D-Type Register, Tri-State	16-Dip	.60	.46	.34
TC74HC173APF-ND	Quad D-Type Register, Tri-State* ***NEW!***	16-Dip	.60	.46	.34
TC74HC175AFN-ND	Quad D-Type Flip-Flop with Clear	16-SOL	.48	.36	.27
TC74HC175AFNF-ND	Quad D-Type Flip Flop with Clear* ***NEW!***	16-SOL	.60	.48	.36
TC74HC244AFW-ND	Octal Bus Buffer, Tri-State	20-SOL	.60	.45	.34
TC74HC244AP-ND	Octal Bus Buffer, Tri-State	20-Dip	.60	.45	.34
TC74HC244APF-ND	Octal Bus Buffer, Tri-State* ***NEW!***	20-Dip	.60	.45	.34
TC74HC245AFWTR-ND	Octal Bus Transceiver, Tri-State	20-SOL	161.00/1,000		
TC74HC245AP-ND	Octal Bus Transceiver, Tri-State	20-Dip	.60	.45	.34
TC74HC245APF-ND	Octal Bus Transceiver, Tri-State* ***NEW!***	20-Dip	.60	.45	.34
TC74HC259AP-ND	8-Bit Addressable Latch	16-Dip	.74	.56	.42
TC74HC273AFW-ND	Octal D-Type Flip-Flop with Clear	20-SOL	.63	.48	.36
TC74HC273AP-ND	Octal D-Type Flip-Flop with Clear	20-Dip	.65	.49	.37
TC74HC273APF-ND	Octal D-Type Flip Flop with Clear* ***NEW!***	20-Dip	.65	.49	.37
TC74HC367AP-ND	Hex Bus Buffer, Tri-State	16-Dip	.61	.46	.35
TC74HC367APF-ND	Hex Bus Buffer, Tri-State* ***NEW!***	16-Dip	.61	.46	.35
TC74HC373AFW-ND	Octal D-Type Latch, Tri-State	20-SOL	.58	.44	.33
TC74HC373AFWTR-ND	Octal D-Type Latch, Tri-State	20-SOL	199.50/1,000		
TC74HC373AP-ND	Octal D-Type Latch, Tri-State	20-Dip	.60	.45	.34
TC74HC373APF-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-Dip	.60	.45	.34
TC74HC374AFW-ND	Octal D-Type Flip-Flop	20-SOL	.58	.44	.33
TC74HC374AFWTR-ND	Octal D-Type Flip-Flop	20-SOL	156.80/1,000		
TC74HC374AP-ND	Octal D-Type Flip-Flop	20-Dip	.60	.45	.34
TC74HC374APF-ND	Octal D-Type Flip-Flop* ***NEW!***	20-Dip	.60	.45	.34
TC74HC541AP-ND	Octal Bus Buffer, Tri-State	20-Dip	.60	.45	.34
TC74HC541APF-ND	Octal Bus Buffer, Tri-State* ***NEW!***	20-Dip	.60	.45	.34
TC74HC573AFW-ND	Octal D-Type Latch, Tri-State	20-SOL	.58	.44	.33
TC74HC573AFWTR-ND	Octal D-Type Latch, Tri-State	20-SOL	199.50/1,000		
TC74HC573AP-ND	Octal D-Type Latch, Tri-State	20-Dip	.60	.45	.34
TC74HC573APF-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-Dip	.60	.45	.34
TC74HC574AP-ND	Octal D-Type Flip-Flop, Tri-State	20-Dip	.60	.45	.34
TC74HC574APF-ND	Octal D-Type Flip-Flop, Tri-State* ***NEW!***	20 Dip	.60	.45	.34
TC74HC592AP-ND	8-Bit Register/Binary Counter	16-Dip	.91	.76	.61
TC74HC592APF-ND	8-Bit Register/Binary Counter* ***NEW!***	16-Dip	.91	.76	.61
TC74HC595AFN-ND	8-Bit Shift Register/Latch, Tri-State	16-SOL	.58	.44	.33
TC74HC595AFNF-ND	8-Bit Shift Register/Latch, Tri-State* ***NEW!***	16-SOL	.58	.44	.33
TC74HC595AFNTR-ND	8-Bit Shift Register/Latch, Tri-State	16-SOL	419.25/2,500		
TC74HC595AP-ND	8-Bit Shift Register/Latch, Tri-State	16-Dip	.43	.36	.29
TC74HC595APF-ND	8-Bit Shift Register/Latch, Tri-State* ***NEW!***	16-Dip	.57	.43	.32
TC74HC4040AFN-ND	12-Stage Binary Counter	16-SOL	.53	.40	.30
TC74HC4040AFNF-ND	12-Stage Binary Counter* ***NEW!***	16-SOL	.53	.40	.30
TC74HC4040AP-ND	12-Stage Binary Counter	16-Dip	.57	.43	.32
TC74HC4040APF-ND	12-Stage Binary Counter* ***NEW!***	16-Dip	.57	.43	.32
TC74HC4051AP-ND	8-Channel Analog Multiplexer	16-Dip	.74	.56	.42
TC74HC4051APF-ND	8-Channel Analog Multiplexer* ***NEW!***	16-Dip	.74	.56	.42
TC74HC4052APF-ND	Dual 4-Channel Analog Multiplexer* ***NEW!***	16-Dip	.74	.56	.42
TC74HC4053AFN-ND	Triple 2-Channel Analog Multiplexer	16-SOL	.54	.41	.31
TC74HC4053AFNF-ND	Triple 2-Channel Analog Multiplexer* ***NEW!***	16-SOL	.54	.41	.31
TC74HC4053AFNTR-ND	Triple 2-Channel Analog Multiplexer	16-SOL	422.50/2,500		
TC74HC4053AFNFCT-ND	Triple 2-Channel Analog Multiplexer* ***NEW!***	16-SOL	.52	.39	.30
TC74HC4053AFNFTR-ND	Triple 2-Channel Analog Multiplexer* ***NEW!***	16-SOL	422.50/2,500		
TC74HC4053AP-ND	Triple 2-Channel Analog Multiplexer	16-Dip	.60	.45	.34
TC74HC4053APF-ND	Triple 2-Channel Analog Mulitplexer* ***NEW!***	16-Dip	.60	.45	.34
TC74HC4066AFN-ND	Quad Bilateral Switch	14-SOL	.60	.48	.36
TC74HC4066AFNF-ND	Quad Bilateral Switch* ***NEW!***	14-SOL	.60	.48	.36
TC74HC4066AP-ND	Quad Bilateral Switch	14-Dip	.56	.43	.32
TC74HC4066APF-ND	Quad Bilateral Switch* ***NEW!***	14-Dip	.56	.43	.32

TOSHIBA 74LCX SERIES

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
TC74LCX00FN-ND	Quad 2-Input NAND Gate	14-SOL	.51	.39	.29
TC74LCX00FNF-ND	Quad 2-Input NAND Gate* ***NEW!***	14-SOL	.51	.39	.29
TC74LCX00FTCT-ND	Quad 2-Input NAND Gate	14-TSSOP	.51	.41	.31
TC74LCX00FTTR-ND	Quad 2-Input NAND Gate	14-TSSOP	285.60/2,000		
TC74LCX00FTFCT-ND	Quad 2-Input NAND Gate* ***NEW!***	14-TSSOP	.51	.41	.31
TC74LCX00FTFTR-ND	Quad 2-Input NAND Gate* ***NEW!***	14-TSSOP	285.60/2,000		
TC74LCX02FN-ND	Quad 2-Input NOR Gate	14-SOL	.51	.39	.29
TC74LCX02FNF-ND	Quad 2-Input NOR Gate* ***NEW!***	14-SOL	.51	.39	.29
TC74LCX02FTCT-ND	Quad 2-Input NOR Gate	14-TSSOP	.51	.41	.31
TC74LCX02FTTR-ND	Quad 2-Input NOR Gate	14-TSSOP	285.60/2,000		
TC74LCX02FTFCT-ND	Quad 2-Input NOR Gate* ***NEW!***	14-TSSOP	.51	.41	.31
TC74LCX02FTFTR-ND	Quad 2-Input NOR Gate* ***NEW!***	14-TSSOP	285.60/2,000		
TC74LCX04FN-ND	Hex Inverter	14-SOL	.51	.39	.29
TC74LCX04FNF-ND	Hex Inverter* ***NEW!***	14-SOL	.51	.39	.29
TC74LCX04FTCT-ND	Hex Inverter	14-TSSOP	.51	.41	.31
TC74LCX04FTTR-ND	Hex Inverter	14-TSSOP	285.60/2,000		
TC74LCX04FTFCT-ND	Hex Inverter* ***NEW!***	14-TSSOP	.51	.41	.31
TC74LCX04FTFTR-ND	Hex Inverter* ***NEW!***	14-TSSOP	285.60/2,000		
TC74LCX08FN-ND	Quad 2-Input AND Gate	14-SOL	.51	.39	.29
TC74LCX08FNF-ND	Quad 2-Input AND Gate* ***NEW!***	14-SOL	.51	.39	.29
TC74LCX08FTCT-ND	Quad 2-Input AND Gate	14-TSSOP	.51	.41	.31
TC74LCX08FTTR-ND	Quad 2-Input AND Gate	14-TSSOP	285.60/2,000		
TC74LCX08FTFCT-ND	Quad 2-Input AND Gate* ***NEW!***	14-TSSOP	.51	.41	.31
TC74LCX08FTFTR-ND	Quad 2-Input AND Gate* ***NEW!***	14-TSSOP	285.60/2,000		
TC74LCX14FN-ND	Hex Schmitt Trigger Inverter	14-SOL	.51	.39	.29
TC74LCX14FNF-ND	Hex Schmitt Trigger Inverter* ***NEW!***	14-SOL	.51	.39	.29
TC74LCX14FTFCT-ND	Hex Schmitt Trigger Inverter* ***NEW!***	14-TSSOP	.51	.41	.31
TC74LCX14FTFTR-ND	Hex Schmitt Trigger Inverter* ***NEW!***	14-TSSOP	285.60/2,000		
TC74LCX32FNF-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOL	.51	.39	.29
TC74LCX32FTCT-ND	Quad 2-Input OR Gate	14-TSSOP	.51	.41	.31
TC74LCX32FTTR-ND	Quad 2-Input OR Gate	14-TSSOP	285.60/2,000		
TC74LCX32FTFCT-ND	Quad 2-Input OR Gate* ***NEW!***	14-TSSOP	.51	.41	.31
TC74LCX32FTFTR-ND	Quad 2-Input OR Gate* ***NEW!***	14-TSSOP	285.60/2,000		
TC74LCX74FN-ND	Dual D-Type Flip-Flop with Preset and Clear	14-SOL	.51	.39	.29
TC74LCX74FTCT-ND	Dual D- Type Flip-Flop with Preset and Clear	14-TSSOP	.53	.42	.32
TC74LCX74FTFCT-ND	Dual D-Type Flip-Flop with Preset and Clear* ***NEW!***	14-TSSOP	.53	.42	.32
TC74LCX74FTFTR-ND	Dual D-Type Flip-Flop with Preset and Clear* ***NEW!***	14-TSSOP	294.00/2,000		
TC74LCX86FN-ND	Quad 2-Input Exclusive OR Gate	14-SOL	.51	.39	.29
TC74LCX86FNF-ND	Quad 2-Input Exclusive OR Gate* ***NEW!***	14-SOL	.51	.39	.29
TC74LCX86FTCT-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	.54	.44	.33
TC74LCX86FTTR-ND	Quad 2-Input Exclusive OR Gate	14-TSSOP	302.40/2,000		
TC74LCX125FN-ND	Quad Bus Buffer, Tri-State	14-SOL	.56	.42	.32
TC74LCX125FNF-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-SOL	.56	.42	.32
TC74LCX125FTCT-ND	Quad Bus Buffer, Tri-State	14-TSSOP	.51	.41	.31
TC74LCX125FTFCT-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-TSSOP	.51	.41	.31
TC74LCX125FTFTR-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-TSSOP	285.60/2,000		
TC74LCX138FN-ND	3-to-8 Line Decoder	16-SOL	.61	.46	.35
TC74LCX138FNF-ND	3-to-8 Line Decoder* ***NEW!***	16-SOL	.61	.46	.35
TC74LCX138FTCT-ND	3-to-8 Line Decoder	16-TSSOP	.49	.37	.28
TC74LCX138FTFCT-ND	3-to-8 Line Decoder* ***NEW!***	16-TSSOP	.49	.37	.28
TC74LCX138FTFTR-ND	3-to-8 Line Decoder* ***NEW!***	16-TSSOP	324.52/2,000		
TC74LCX157FTCT-ND	Quad 2-Channel Multiplexer	16-TSSOP	.59	.47	.36
TC74LCX157FTFCT-ND	Quad 2-Channel Multiplexer* ***NEW!***	16-TSSOP	.59	.47	.36
TC74LCX157FTFTR-ND	Quad 2-Channel Multiplexer* ***NEW!***	16-TSSOP	327.60/2,000		
TC74LCX157FTTR-ND	Quad 2-Channel Multiplexer	16-TSSOP	327.60/2,000		
TC74LCX240FTCT-ND	Octal Inverting Bus Buffer	20-TSSOP	.52	.40	.30
TC74LCX240FTTR-ND	Octal Inverting Bus Buffer	20-TSSOP	348.46/2,000		
TC74LCX240FTFCT-ND	Octal Inverting Bus Buffer, Tri-State* ***NEW!***	20-TSSOP	.52	.40	.30
TC74LCX240FTFTR-ND	Octal Inverting Bus Buffer, Tri-State* ***NEW!***	20-TSSOP	348.46/2,000		
TC74LCX240FW-ND	Octal Inverting Bus Buffer, Tri-State	20-SOL	.96	.73	.55
TC74LCX244FTCT-ND	Octal Bus Buffer, Tri-State	20-TSSOP	.52	.40	.30
TC74LCX244FTTR-ND	Octal Bus Buffer, Tri-State	20-TSSOP	348.46/2,000		
TC74LCX244FTFCT-ND	Octal Bus Buffer, Tri-State* ***NEW!***	20-TSSOP	.52	.40	.30
TC74LCX244FTFTR-ND	Octal Bus Buffer, Tri-State* ***NEW!***	20-TSSOP	348.46/2,000		
TC74LCX244FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.96	.73	.55
TC74LCX245FTCT-ND	Octal Bus Transceiver, Tri-State	20-TSSOP	.58	.44	.33
TC74LCX245FTTR-ND	Octal Bus Transceiver, Tri-State	20-TSSOP	385.70/2,000		
TC74LCX245FTFCT-ND	Octal Bus Transceiver, Tri-State* ***NEW!***	20-TSSOP	.58	.44	.33
TC74LCX245FTFTR-ND	Octal Bus Transceiver, Tri-State* ***NEW!***	20-TSSOP	385.70/2,000		
TC74LCX245FW-ND	Octal Bus Transceiver, Tri-State	20-SOL	.96	.73	.55
TC74LCX257FTCT-ND	Quad 2-Channel Multiplexer, Tri-State	16-TSSOP	.50	.38	.29
TC74LCX257FTTR-ND	Quad 2-Channel Multiplexer, Tri-State	16-TSSOP	335.16/2,000		
TC74LCX373FTCT-ND	Octal D-Type Latch, Tri-State	20-TSSOP	.52	.39	.30
TC74LCX373FTFCT-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-TSSOP	.52	.39	.30
TC74LCX373FTFTR-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-TSSOP	345.80/2,000		
TC74LCX373FTTR-ND	Octal D-Type Latch, Tri-State	20-TSSOP	345.80/2,000		
TC74LCX373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.60	.49	.37
TC74LCX374FTCT-ND	Octal D-Type Flip-Flop	20-TSSOP	.54	.41	.31
TC74LCX374FTFCT-ND	Octal D-Type Flip-Flop* ***NEW!***	20-TSSOP	.54	.41	.31
TC74LCX374FTFTR-ND	Octal D-Type Flip-Flop* ***NEW!***	20-TSSOP	359.10/2,000		
TC74LCX374FW-ND	Octal D-Type Flip-Flop	20-SOL	.96	.73	.55
TC74LCX540FTCT-ND	Octal Inverting Bus Buffer	20-TSSOP	.54	.41	.31
TC74LCX540FTTR-ND	Octal Inverting Bus Buffer	20-TSSOP	359.10/2,000		
TC74LCX540FTFCT-ND	Octal Inverting Bus Buffer* ***NEW!***	20-TSSOP	.54	.41	.31
TC74LCX540FTFTR-ND	Octal Inverting Bus Buffer* ***NEW!***	20-TSSOP	359.10/2,000		
TC74LCX541FTCT-ND	Octal Bus Buffer	20-TSSOP	.60	.45	.34
TC74LCX541FTTR-ND	Octal Bus Buffer	20-TSSOP	359.10/2,000		
TC74LCX541FTFCT-ND	Octal Bus Buffer* ***NEW!***	20-TSSOP	.54	.41	.31
TC74LCX541FTFTR-ND	Octal Bus Buffer* ***NEW!***	20-TSSOP	359.10/2,000		
TC74LCX541FW-ND	Octal Bus Buffer	20-SOL	.76	.63	.51
TC74LCX573FTCT-ND	Octal D-Type Latch, Tri-State	20-TSSOP	.54	.41	.31
TC74LCX573FTTR-ND	Octal D-Type Latch, Tri-State	20-TSSOP	359.10/2,000		
TC74LCX573FTFCT-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-TSSOP	.54	.41	.31
TC74LCX573FTFTR-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-TSSOP	359.10/2,000		
TC74LCX574FTCT-ND	Octal D-Type Flip-Flop, Tri-State	20-TSSOP	.54	.41	.31
TC74LCX574FTTR-ND	Octal D-Type Flip-Flop, Tri-State	20-TSSOP	359.10/2,000		
TC74LCX574FTFCT-ND	Octal D-Type Flip-Flop, Tri-State* ***NEW!***	20-TSSOP	.54	.41	.31
TC74LCX574FTFTR-ND	Octal D-Type Flip-Flop, Tri-State* ***NEW!***	20-TSSOP	359.10/2,000		
TC74LCX574FW-ND	Octal D-Type Flip-Flop, Tri-State	20-SOL	.76	.63	.51
TC74LCX16240AFTTR-ND	Inverting 16-Bit Bus Buffer, Tri-State	48-TSSOP	650.00/1,000		
TC74LCX16244AFTTR-ND	16-Bit Bus Buffer, Tri-State	48-TSSOP	619.78/1,000		
TC74LCX16244AFTFCT-ND	16-Bit Bus Buffer, Tri-State* ***NEW!***	48-TSSOP	1.40	1.17	.94
TC74LCX16244AFTFTR-ND	16-Bit Bus Buffer, Tri-State* ***NEW!***	48-TSSOP	619.78/1,000		
TC74LCX16245AFTTR-ND	16-Bit Bus Transceiver, Tri-State	48-TSSOP	619.78/1,000		
TC74LCX16245AFTFCT-ND	16-Bit Bus Transceiver, Tri-State* ***NEW!***	48-TSSOP	1.40	1.17	.94

***RoHS Compliant**

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

TOSHIBA 74LCX SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74LCX16245AFTFTR-ND	16-Bit Bus Transceiver, Tri-State* ***NEW!***	48-TSSOP		619.78/1,000	
TC74LCX16373AFTTR-ND	16-Bit D-Type Latch, Tri-State	48-TSSOP		619.78/1,000	
TC74LCX16373AFTFCT-ND	16-Bit D-Type Latch, Tri-State* ***NEW!***	48-TSSOP	1.40	1.17	.94
TC74LCX16373AFTFTR-ND	16-Bit D-Type Latch, Tri-State* ***NEW!***	48-TSSOP		619.78/1,000	
TC74LCX16374AFTTR-ND	16-Bit D-Type Flip-Flop, Tri-State	48-TSSOP		619.78/1,000	
TC74LCX16374AFTFCT-ND	16-Bit D-Type Flip-Flop, Tri-State* ***NEW!***	48-TSSOP	1.40	1.17	.94
TC74LCX16374AFTFTR-ND	16-Bit D-Type Flip-Flop, Tri-State* ***NEW!***	48-TSSOP		619.78/1,000	

TOSHIBA 74LVX SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74LVX00FN-ND	Quad 2-Input NAND Gate	14-SOL	.43	.35	.26
TC74LVX00FTTR-ND	Quad 2-Input NAND Gate	14-TSSOP		240.80/2,000	
TC74LVX02FN-ND	Quad 2-Input NOR Gate	14-SOL	.46	.37	.28
TC74LVX02FTTR-ND	Quad 2-Input NOR Gate	14-TSSOP		240.80/2,000	
TC74LVX02FTFCT-ND	Quad 2-Input NOR Gate* ***NEW!***	14-TSSOP	.43	.35	.26
TC74LVX02FTFTR-ND	Quad 2-Input NOR Gate* ***NEW!***	14-TSSOP		240.80/2,000	
TC74LVX04FN-ND	Hex Inverter	14-SOL	.43	.35	.26
TC74LVX04FNF-ND	Hex Inverter* ***NEW!***	14-SOL	.43	.35	.26
TC74LVX04FTTR-ND	Hex Inverter	14-TSSOP		240.80/2,000	
TC74LVX04FTFCT-ND	Hex Inverter* ***NEW!***	14-TSSOP	.43	.35	.26
TC74LVX04FTFTR-ND	Hex Inverter* ***NEW!***	14-TSSOP		240.80/2,000	
TC74LVX08FN-ND	Quad 2-Input AND Gate	14-SOL	.43	.35	.26
TC74LVX08FNF-ND	Quad 2-Input AND Gate* ***NEW!***	14-SOL	.43	.35	.26
TC74LVX08FTTR-ND	Quad 2-Input AND Gate	14-TSSOP		240.80/2,000	
TC74LVX08FTFCT-ND	Quad 2-Input AND Gate* ***NEW!***	14-TSSOP	.43	.35	.26
TC74LVX08FTFTR-ND	Quad 2-Input AND Gate* ***NEW!***	14-TSSOP		240.80/2,000	
TC74LVX14FN-ND	Hex Schmitt Trigger Inverter	14-SOL	.46	.37	.28
TC74LVX14FNF-ND	Hex Schmitt Trigger Inverter* ***NEW!***	14-SOL	.46	.37	.28
TC74LVX14FTFCT-ND	Hex Schmitt Trigger Inverter* ***NEW!***	14-TSSOP	.53	.42	.32
TC74LVX14FTFTR-ND	Hex Schmitt Trigger Inverter* ***NEW!***	14-TSSOP		294.00/2,000	
TC74LVX14FTTR-ND	Hex Schmitt Trigger Inverter	14-TSSOP		279.30/2,000	
TC74LVX32FN-ND	Quad 2-Input OR Gate	14-SOL	.43	.35	.26
TC74LVX32FNF-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOL	.43	.35	.26
TC74LVX32FTFCT-ND	Quad 2-Input OR Gate* ***NEW!***	14-TSSOP	.43	.35	.26
TC74LVX32FTFTR-ND	Quad 2-Input OR Gate* ***NEW!***	14-TSSOP		240.800/2,000	
TC74LVX74FN-ND	Dual D-Type Flip-Flop with Preset and Clear	14- SOL	.53	.42	.32
TC74LVX74FNF-ND	Dual D-Type Flip-Flop with Preset and Clear* ***NEW!***	14-SOL	.53	.42	.32
TC74LVX74FTTR-ND	Dual D-Type Flip-Flop with Preset and Clear	14-TSSOP		294.00/2,000	
TC74LVX74FTMCT-ND	Dual D-Type Flip-Flop with Preset and Clear* ***NEW!***	14-TSSOP	.53	.42	.32
TC74LVX74FTMTR-ND	Dual D-Type Flip-Flop with Preset and Clear* ***NEW!***	14-TSSOP		294.00/2,000	
TC74LVX86FN-ND	Quad Exclusive OR Gate	14-SOL	.53	.43	.32
TC74LVX86FNF-ND	Quad Exclusive OR Gate* ***NEW!***	14-SOL	.53	.43	.32
TC74LVX86FTTR-ND	Quad Exclusive OR Gate	14-TSSOP		294.00/2,000	
TC74LVX86FTMCT-ND	Quad Exclusive OR Gate* ***NEW!***	14-TSSOP	.53	.42	.32
TC74LVX86FTMTR-ND	Quad Exclusive OR Gate* ***NEW!***	14-TSSOP		294.00/2,000	
TC74LVX125FN-ND	Quad Bus Buffer, Tri-State	14-SOL	.68	.51	.39
TC74LVX125FNF-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-SOL	.68	.51	.39
TC74LVX125FTTR-ND	Quad Bus Buffer, Tri-State	14-TSSOP		364.42/2,000	
TC74LVX125FTFCT-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-TSSOP	.55	.42	.31
TC74LVX125FTFTR-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-TSSOP		364.42/2,000	
TC74LVX138FN-ND	3-to-8 Line Decoder	16-SOL	.52	.39	.30
TC74LVX138FNF-ND	3-to-8 Line Decoder* ***NEW!***	16-SOL	.52	.39	.30
TC74LVX138FTTR-ND	3-to-8 Line Decoder	16-TSSOP		345.80/2,000	
TC74LVX138FTFCT-ND	3-to-8 Line Decoder* ***NEW!***	16-TSSOP	.52	.39	.30
TC74LVX138FTFTR-ND	3-to-8 Line Decoder* ***NEW!***	16-TSSOP		345.800/2,000	
TC74LVX157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.56	.42	.32
TC74LVX157FTTR-ND	Quad 2-Channel Multiplexer	16-TSSOP		330.40/2,000	
TC74LVX174FN-ND	Hex D-Type Flip-Flop with Clear	16-SOL	.84	.63	.48
TC74LVX174FNF-ND	Hex D-Type Flip-Flop with Clear****NEW!***	16-SOL	.84	.63	.48
TC74LVX240FTTR-ND	Octal Inverting Bus Buffer, Tri-State	20-TSSOP		454.86/2,000	
TC74LVX240FW-ND	Octal Inverting Bus Buffer, Tri-State	20-SOL	.68	.52	.39
TC74LVX244FTTR-ND	Octal Bus Buffer, Tri-State	20-TSSOP		454.86/2,000	
TC74LVX244FTFCT-ND	Octal Bus Buffer, Tri-State* ***NEW!***	20-TSSOP	.68	.52	.39
TC74LVX244FTFTR-ND	Octal Bus Buffer, Tri-State* ***NEW!***	20-TSSOP		454.86/2,000	
TC74LVX245FTTR-ND	Octal Bus Transceiver, Tri-State	20-TSSOP		454.86/2,000	
TC74LVX245FTFCT-ND	Octal Bus Transceiver, Tri-State* ***NEW!***	20-TSSOP	.68	.52	.39
TC74LVX245FTFTR-ND	Octal Bus Transceiver, Tri-State* ***NEW!***	20-TSSOP		454.86/2,000	
TC74LVX245FW-ND	Octal Bus Transceiver, Tri-State	20-SOL	.68	.52	.39
TC74LVX273FW-ND	Octal D-Type Flip-Flop with Clear	20-SOL	.68	.52	.39
TC74LVX373FTTR-ND	Octal D-Type Latch, Tri-State	20-TSSOP		454.86/2,000	
TC74LVX373FTMCT-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-TSSOP	.68	.52	.39
TC74LVX373FTMTR-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-TSSOP		454.86/2,000	
TC74LVX373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.68	.52	.39
TC74LVX374FW-ND	Octal D-Type Flip-Flop	20-SOL	.68	.52	.39
TC74LVX573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.71	.54	.41
TC74LVX4245FSTR-ND	Dual Supply Octal Bus Transceiver	24-SSOP		1487.20/2,000	
TC74LVX4245FSFCT-ND	Dual Supply Octal Bus Transceiver* ***NEW!***	24-TSSOP	1.43	1.15	.86
TC74LVX4245FSFTR-ND	Dual Supply Octal Bus Transceiver* ***NEW!***	24-TSSOP		1487.20/2,000	

TOSHIBA 74VHC SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74VHC00FN-ND	Quad 2-Input NAND Gate	14-SOL	.43	.35	.26
TC74VHC00FNM-ND	Quad 2-Input NAND Gate* ***NEW!***	14-SOL	.43	.35	.26
TC74VHC00FNTR-ND	Quad 2-Input NAND Gate	14-SOL		290.25/2,500	
TC74VHC00FTCT-ND	Quad 2-Input NAND Gate	14-TSSOP	.30	.23	.18
TC74VHC00FTTR-ND	Quad 2-Input NAND Gate	14-TSSOP		212.80/2,000	
TC74VHC00FTMCT-ND	Quad 2-Input NAND Gate* ***NEW!***	14-TSSOP	.49	.40	.28
TC74VHC00FTMTR-ND	Quad 2-Input NAND Gate* ***NEW!***	14-TSSOP		273.60/2,000	
TC74VHC02FN-ND	Quad 2-Input NOR Gate	14-SOL	.43	.35	.26
TC74VHC02FNF-ND	Quad 2-Input NOR Gate****NEW!***	14-SOL	.43	.35	.26
TC74VHC02FNTR-ND	Quad 2-Input NOR Gate	14-SOL		290.25/2,500	
TC74VHC02FNMCT-ND	Quad 2-Input NOR Gate* ***NEW!***	14-SOL	.43	.35	.26
TC74VHC02FNMTR-ND	Quad 2-Input NOR Gate* ***NEW!***	14-SOL		290.25/2,500	
TC74VHC02FTMCT-ND	Quad 2-Input NOR Gate* ***NEW!***	14-TSSOP	.51	.41	.29
TC74VHC02FTMTR-ND	Quad 2-Input NOR Gate* ***NEW!***	14-TSSOP		280.80/2,000	
TC74VHC04FN-ND	Hex Inverter	14-SOL	.43	.35	.26
TC74VHC04FNF-ND	Hex Inverter* ***NEW!***	14-SOL	.43	.35	.26
TC74VHC04FNTR-ND	Hex Inverter	14-SOL		290.25/2,500	
TC74VHC04FTTR-ND	Hex Inverter	14-TSSOP		280.80/2,000	
TC74VHC08FTMCT-ND	Quad 2-Input AND Gate* ***NEW!***	14-TSSOP	.49	.40	.28
TC74VHC08FTMTR-ND	Quad 2-Input AND Gate* ***NEW!***	14-TSSOP		273.60/2,000	
TC74VHC10FN-ND	Triple 3-Input NAND Gate	14-SOL	.50	.40	.30
TC74VHC10FNF-ND	Triple 3-Input NAND Gate* ***NEW!***	14-SOL	.50	.40	.30
TC74VHC10FNTR-ND	Triple 3-Input NAND Gate	14-SOL		371.25/2,500	
TC74VHC11FTTR-ND	Triple 3-Input AND Gate	14-TSSOP		282.80/2,000	
TC74VHC11FTMCT-ND	Triple 3-Input AND Gate* ***NEW!***	14-TSSOP	.51	.41	.31
TC74VHC11FTMTR-ND	Triple 3-Input AND Gate* ***NEW!***	14-TSSOP		282.80/2,000	
TC74VHC14FNTR-ND	Hex Schmitt Trigger Inverter	14-SOL		337.50/2,500	
TC74VHC14FTTR-ND	Hex Schmitt Trigger Inverter	14-TSSOP		262.80/2,000	
TC74VHC14FTMCT-ND	Hex Schmitt Trigger Inverter* ***NEW!***	14-TSSOP	.47	.39	.27
TC74VHC14FTMTR-ND	Hex Schmitt Trigger Inverter* ***NEW!***	14-TSSOP		262.80/2,000	
TC74VHC20FN-ND	Dual 4-Input NAND Gate	14-SOL	.47	.38	.29
TC74VHC20FNF-ND	Dual 4-Input NAND Gate* ***NEW!***	14-SOL	.47	.38	.29
TC74VHC20FTMCT-ND	Dual 4-Input NAND Gate* ***NEW!***	14-TSSOP	.51	.41	.31
TC74VHC20FTMTR-ND	Dual 4-Input NAND Gate* ***NEW!***	14-TSSOP		282.80/2,000	
TC74VHC21FN-ND	Dual 4-Input AND Gate	14-SOL	.47	.38	.29
TC74VHC21FTTR-ND	Dual 4-Input AND Gate	14-TSSOP		282.80/2,000	
TC74VHC21FTMCT-ND	Dual 4-Input AND Gate* ***NEW!***	14-TSSOP	.51	.41	.31
TC74VHC21FTMTR-ND	Dual 4-Input AND Gate* ***NEW!***	14-TSSOP		282.80/2,000	
TC74VHC32FN-ND	Quad 2-Input OR Gate	14-SOL	.43	.35	.26
TC74VHC32FNF-ND	Quad 2-Input OR Gate* ***NEW!***	14-SOL	.43	.35	.26
TC74VHC32FTMCT-ND	Quad 2-Input OR Gate* ***NEW!***	14-TSSOP	.49	.40	.28
TC74VHC32FTMTR-ND	Quad 2-Input OR Gate* ***NEW!***	14-TSSOP		273.60/2,000	
TC74VHC74FN-ND	Dual D-Type Flip-Flop with Preset and Clear	14-SOL	.53	.42	.32
TC74VHC74FNF-ND	Dual D-Type Flip-Flop with Preset and Clear* ***NEW!***	14-SOL	.53	.42	.32
TC74VHC74FTTR-ND	Dual D-Type Flip-Flop with Preset and Clear	14-TSSOP		212.80/2,000	
TC74VHC74FTMCT-ND	Dual D-Type Flip-Flop with Preset and Clear* ***NEW!***	14-TSSOP	.49	.40	.28
TC74VHC74FTMTR-ND	Dual D-Type Flip-Flop with Preset and Clear* ***NEW!***	14-TSSOP		273.60/2,000	
TC74VHC86FN-ND	Quad Exclusive OR Gate	14-SOL	.53	.42	.32
TC74VHC86FNF-ND	Quad Exclusive OR Gate* ***NEW!***	14-SOL	.53	.42	.32
TC74VHC86FTMCT-ND	Quad Exclusive OR Gate* ***NEW!***	14-TSSOP	.47	.38	.28
TC74VHC86FTMTR-ND	Quad Exclusive OR Gate* ***NEW!***	14-TSSOP		260.40/2,000	
TC74VHC125FN-ND	Quad Bus Buffer, Tri-State	14-SOL	.56	.45	.34
TC74VHC125FNF-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-SOL	.56	.45	.34
TC74VHC125FNTR-ND	Quad Bus Buffer, Tri-State	14-SOL		422.50/2,500	
TC74VHC125FNMCT-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-SOL	.52	.39	.30
TC74VHC125FNMTR-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-SOL		422.50/2,500	
TC74VHC125FTMCT-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-TSSOP	.55	.44	.33
TC74VHC125FTMTR-ND	Quad Bus Buffer, Tri-State* ***NEW!***	14-TSSOP		305.20/2,000	
TC74VHC138FN-ND	3-to-8 Line Decoder	16-SOL	.52	.39	.30
TC74VHC138FNF-ND	3-to-8 Line Decoder* ***NEW!***	16-SOL	.52	.39	.30
TC74VHC138FNTR-ND	3-to-8 Line Decoder	16-SOL		422.50/2,500	
TC74VHC138FTMCT-ND	3-to-8 Line Decoder* ***NEW!***	16-TSSOP	.55	.44	.33
TC74VHC138FTMTR-ND	3-to-8 Line Decoder* ***NEW!***	16-TSSOP		308.00/2,000	
TC74VHC139FN-ND	Dual 2-to-4 Line Decoder	16-SOL	.58	.44	.33
TC74VHC139FTMCT-ND	Dual 2-to-4 Line Decoder* ***NEW!***	16-TSSOP	.54	.43	.33
TC74VHC139FTMTR-ND	Dual 2-to-4 Line Decoder* ***NEW!***	16-TSSOP		299.60/2,000	
TC74VHC153FTTR-ND	Dual 4-Channel Multiplexer	16-TSSOP		332.50/2,000	
TC74VHC153FTMCT-ND	Dual 4-Channel Multiplexer* ***NEW!***	16-TSSOP	.48	.36	.27
TC74VHC153FTMTR-ND	Dual 4-Channel Multiplexer* ***NEW!***	16-TSSOP		319.20/2,000	
TC74VHC157FN-ND	Quad 2-Channel Multiplexer	16-SOL	.55	.42	.31
TC74VHC157FNF-ND	Quad 2-Channel Multiplexer* ***NEW!***	16-SOL	.55	.42	.31
TC74VHC157FTTR-ND	Quad 2-Channel Multiplexer	16-TSSOP		296.80/2,000	
TC74VHC164FN-ND	8-Bit SIPO Shift Register	14-SOL	.53	.40	.30
TC74VHC164FTTR-ND	8-Bit SIPO Shift Register	14-TSSOP		359.10/2,000	
TC74VHC164FTMCT-ND	8-Bit SIPO Shift Register* ***NEW!***	14-TSSOP	.54	.41	.31
TC74VHC164FTMTR-ND	8-Bit SIPO Shift Register* ***NEW!***	14-TSSOP		359.10/2,000	
TC74VHC165FN-ND	8-Bit PISO Shift Register	16-SOL	.58	.44	.33
TC74VHC165FNF-ND	8-Bit PISO Shift Register* ***NEW!***	16-SOL	.58	.44	.33
TC74VHC165FTMCT-ND	8-Bit PISO Shift Register* ***NEW!***	16-TSSOP	.54	.41	.31
TC74VHC165FTMTR-ND	8-Bit PISO Shift Register* ***NEW!***	16-TSSOP		356.44/2,000	
TC74VHC174FN-ND	Hex D-Type Flip-Flop with Clear	16-SOL	.55	.42	.31
TC74VHC174FTTR-ND	Hex D-Type Flip-Flop with Clear	16-TSSOP		343.14/2,000	
TC74VHC174FTMCT-ND	Hex D-Type Flip-Flop with Clear* ***NEW!***	16-TSSOP	.52	.39	.30
TC74VHC174FTMTR-ND	Hex D-Type Flip-Flop with Clear* ***NEW!***	16-TSSOP		343.14/2,000	
TC74VHC175FN-ND	Quad D-Type Flip-Flop with Clear	16-SOL	.55	.42	.31
TC74VHC175FNF-ND	Quad D-Type Flip-Flop with Clear* ***NEW!***	16-SOL	.55	.42	.31
TC74VHC175FTTR-ND	Quad D-Type Flip-Flop with Clear	16-TSSOP		343.14/2,000	
TC74VHC238FN-ND	3-to-8 Line Decoder	16-SOL	.58	.44	.33
TC74VHC238FNF-ND	3-to-8 Line Decoder* ***NEW!***	16-SOL	.58	.44	.33
TC74VHC238FTTR-ND	3-to-8 Line Decoder	16-TSSOP		587.86/2,000	
TC74VHC238FTMCT-ND	3-to-8 Line Decoder* ***NEW!***	16-TSSOP	.88	.67	.50
TC74VHC238FTMTR-ND	3-to-8 Line Decoder* ***NEW!***	16-TSSOP		587.86/2,000	
TC74VHC240FTTR-ND	Octal Inverting Bus Buffer, Tri-State	20-TSSOP		324.52/2,000	
TC74VHC240FTMCT-ND	Octal Inverting Bus Buffer, Tri-State* ***NEW!***	20-TSSOP	.49	.37	.28
TC74VHC240FTMTR-ND	Octal Inverting Bus Buffer, Tri-State* ***NEW!***	20-TSSOP		324.52/2,000	
TC74VHC240FW-ND	Octal Inverting Bus Buffer, Tri-State	20-SOL	.60	.45	.34
TC74VHC244FTTR-ND	Octal Bus Buffer, Tri-State	20-TSSOP		324.52/2,000	
TC74VHC244FTMCT-ND	Octal Bus Buffer, Tri-State* ***NEW!***	20-TSSOP	.49	.37	.28
TC74VHC244FTMTR-ND	Octal Bus Buffer, Tri-State* ***NEW!***	20-TSSOP		324.52/2,000	
TC74VHC244FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.60	.45	.34
TC74VHC245FTMCT-ND	Octal Bus Transceiver, Tri-State* ***NEW!***	20-TSSOP	.54	.41	.31
TC74VHC245FTMTR-ND	Octal Bus Transceiver, Tri-State* ***NEW!***	20-TSSOP		356.44/2,000	
TC74VHC245FW-ND	Octal Bus Transceiver, Tri-State	20-SOL	.68	.52	.39
TC74VHC245FWTR-ND	Octal Bus Transceiver, Tri-State	20-SOL		226.10/1,000	
TC74VHC273FTMCT-ND	Octal D-Type Flip-Flop with Clear* ***NEW!***	20-TSSOP	.49	.37	.28
TC74VHC273FTMTR-ND	Octal D-Type Flip-Flop with Clear* ***NEW!***	20-TSSOP		324.52/2,000	
TC74VHC273FW-ND	Octal D-Type Flip-Flop with Clear	20-SOL	.68	.52	.39
TC74VHC299FW-ND	8-Bit PIPO Shift Register	20-SOL	1.28	1.03	.77
TC74VHC367FN-ND	Hex Bus Buffer, Tri-State	16-SOL	.56	.42	.32
TC74VHC367FNTR-ND	Hex Bus Buffer, Tri-State	16-SOL		617.50/2,500	
TC74VHC367FNMCT-ND	Hex Bus Buffer, Tri-State* ***NEW!***	16-SOL	.76	.57	.43
TC74VHC367FNMTR-ND	Hex Bus Buffer, Tri-State* ***NEW!***	16-SOL		617.50/2,500	
TC74VHC373FTMCT-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-TSSOP	.51	.41	.31
TC74VHC373FTMTR-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-TSSOP		285.60/2,000	
TC74VHC373FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.60	.45	.34
TC74VHC373FWTR-ND	Octal D-Type Latch, Tri-State	20-SOL		198.17/1,000	
TC74VHC374FTMCT-ND	Octal D-Type Flip-Flop, Tri-State* ***NEW!***	20-TSSOP	.49	.37	.28
TC74VHC374FTMTR-ND	Octal D-Type Flip-Flop, Tri-State* ***NEW!***	20-TSSOP		324.52/2,000	
TC74VHC374FW-ND	Octal D-Type Flip-Flop	20-SOL	.60	.45	.34

***RoHS Compliant**

(Continued)

TOSHIBA 74VHC SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC74VHC374FWTR-ND	Octal D-Type Flip-Flop	20-SOL		198.17/1,000	
TC74VHC393FN-ND	Dual Binary Counter	14-SOL	.60	.45	.34
TC74VHC393FTTR-ND	Dual Binary Counter	14-TSSOP		569.24/2,000	
TC74VHC393FTMCT-ND	Dual Binary Counter* ***NEW!***	14-TSSOP	.86	.65	.49
TC74VHC393FTMTR-ND	Dual Binary Counter* ***NEW!***	14-TSSOP		569.24/2,000	
TC74VHC540FTCT-ND	Inverting Octal Bus Buffer, Tri-State	20-TSSOP	.54	.41	.31
TC74VHC540FTMCT-ND	Inverting Octal Bus Buffer, Tri-State* ***NEW!***	20-TSSOP	.54	.41	.31
TC74VHC540FTMTR-ND	Inverting Octal Bus Buffer, Tri-State* ***NEW!***	20-TSSOP		359.10/2,000	
TC74VHC540FW-ND	Inverting Octal Bus Buffer, Tri-State	20-SOL	.60	.45	.34
TC74VHC541FTTR-ND	Octal Bus Buffer, Tri-State	20-TSSOP		359.10/2,000	
TC74VHC541FTMCT-ND	Octal Bus Buffer, Tri-State* ***NEW!***	20-TSSOP	.54	.41	.31
TC74VHC541FTMTR-ND	Octal Bus Buffer, Tri-State* ***NEW!***	20-TSSOP		359.10/2,000	
TC74VHC541FW-ND	Octal Bus Buffer, Tri-State	20-SOL	.60	.45	.34
TC74VHC541FWTR-ND	Octal Bus Buffer, Tri-State	20-SOL		198.17/1,000	
TC74VHC573FTTR-ND	Octal D-Type Latch, Tri-State	20-TSSOP		359.10/2,000	
TC74VHC573FTMCT-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-TSSOP	.54	.41	.31
TC74VHC573FTMTR-ND	Octal D-Type Latch, Tri-State* ***NEW!***	20-TSSOP		359.10/2,000	
TC74VHC573FW-ND	Octal D-Type Latch, Tri-State	20-SOL	.60	.45	.34
TC74VHC573FWTR-ND	Octal D-Type Latch, Tri-State	20-SOL		191.52/1,000	
TC74VHC574FTTR-ND	Octal D-Type Flip-Flop, Tri-State	20-TSSOP		359.10/2,000	
TC74VHC574FTMCT-ND	Octal D-Type Flip-Flop, Tri-State* ***NEW!***	20-TSSOP	.54	.41	.31
TC74VHC574FTMTR-ND	Octal D-Type Flip-Flop, Tri-State* ***NEW!***	20-TSSOP		359.10/2,000	
TC74VHC574FW-ND	Octal D-Type Flip-Flop, Tri-State	20-SOL	.60	.45	.34
TC74VHC574FWTR-ND	Octal D-Type Flip-Flop, Tri-State	20-SOL		198.17/1,000	
TC74VHC595FNF-ND	8-Bit Shift Register/Latch, Tri-State* ***NEW!***	16-SOL	.63	.48	.36
TC74VHC595FTMCT-ND	8-Bit Shift Register/Latch, Tri-State* ***NEW!***	16-TSSOP	1.00	.75	.57
TC74VHC595FTMTR-ND	8-Bit Shift Register/Latch, Tri-State* ***NEW!***	16-TSSOP		662.34/2,000	
TC74VHC4040FN-ND	12-Stage Binary Counter	16-SOL	.64	.48	.36
TC74VHC4040FNF-ND	12-Stage Binary Counter* ***NEW!***	16-SOL	.64	.48	.36
TC74VHC4040FTTR-ND	12-Stage Binary Counter	16-TSSOP		380.38/2,000	
TC74VHC4040FTMCT-ND	12-Stage Binary Counter* ***NEW!***	16-TSSOP	.57	.43	.33
TC74VHC4040FTMTR-ND	12-Stage Binary Counter* ***NEW!***	16-TSSOP		380.38/2,000	

TOSHIBA LMOS SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC4S01FCT-ND	2-Input NOR Gate	SMV-5	.46	.37	.26
TC4S01FTR-ND	2-Input NOR Gate	SMV-5		357.00/3,000	
TC4S01FFCT-ND	2-Input NOR Gate* ***NEW!***	SMV-5	.46	.37	.26
TC4S01FFTR-ND	2-Input NOR Gate* ***NEW!***	SMV-5		357.00/3,000	
TC4S66FCT-ND	Single Analog Switch (4066B)	SMV-5	.49	.40	.28
TC4S66FTR-ND	Single Analog Switch (4066B)	SMV-5		387.60/3,000	
TC4S66FFCT-ND	Single Analog Switch (4066B)* ***NEW!***	SMV-5	.46	.37	.26
TC4S66FFTR-ND	Single Analog Switch (4066B)* ***NEW!***	SMV-5		357.00/3,000	
TC4S584FCT-ND	Single Schmitt Trigger (4584B)	SMV-5	.55	.44	.33
TC4S584FTR-ND	Single Schmitt Trigger (4584B)	SMV-5		445.50/3,000	
TC4S584FFCT-ND	Single Schmitt Trigger (4584B)* ***NEW!***	SMV-5	.50	.40	.30
TC4S584FFTR-ND	Single Schmitt Trigger (4584B)* ***NEW!***	SMV-5		405.00/3,000	
TC7S00FCT-ND	Single NAND Gate (74HC00)	SMV-5	.29	.24	.17
TC7S00FTR-ND	Single NAND Gate (74HC00)	SMV-5		229.50/3,000	
TC7S00FFCT-ND	Single NAND Gate (74HC00)* ***NEW!***	SMV-5	.36	.29	.20
TC7S00FFTR-ND	Single NAND Gate (74HC00)* ***NEW!***	SMV-5		243.00/3,000	
TC7S02FCT-ND	Single NOR Gate (74HC02)	SMV-5	.36	.29	.20
TC7S02FTR-ND	Single NOR Gate (74HC02)	SMV-5		243.00/3,000	
TC7S02FFCT-ND	Single NOR Gate (74HC02)* ***NEW!***	SMV-5	.36	.29	.20
TC7S02FFTR-ND	Single NOR Gate (74HC02)* ***NEW!***	SMV-5		243.00/3,000	
TC7S04FTCT-ND	Single Inverter (74HC04)	SMV-5	.29	.24	.17
TC7S04FTTR-ND	Single Inverter (74HC04)	SMV-5		229.50/3,000	
TC7S04FTFCT-ND	Single Inverter (74HC04)* ***NEW!***	SMV-5	.36	.29	.20
TC7S04FTFTR-ND	Single Inverter (74HC04)* ***NEW!***	SMV-5		243.00/3,000	
TC7S08FCT-ND	Single AND Gate (74HC08)	SMV-5	.36	.29	.20
TC7S08FFCT-ND	2-Input AND Gate (74HC08)* ***NEW!***	SMV-5	.36	.29	.20
TC7S08FFTR-ND	2-Input AND Gate (74HC08)* ***NEW!***	SMV-5		243.00/3,000	
TC7S14FT5CT-ND	Schmitt Inverter	SMV-5	.29	.24	.17
TC7S14FT5TR-ND	Schmitt Inverter	SMV-5		229.50/3,000	
TC7S14FT5FCT-ND	Schmitt Inverter* ***NEW!***	SMV-5	.36	.29	.20
TC7S14FT5FTR-ND	Schmitt Inverter* ***NEW!***	SMV-5		243.00/3,000	
TC7S32FCT-ND	Single OR Gate (74HC32)	SMV-5	.36	.29	.20
TC7S32FTR-ND	Single OR Gate (74HC32)	SMV-5		243.00/3,000	
TC7S32FFCT-ND	2-Input OR Gate (74HC32)* ***NEW!***	SMV-5	.36	.29	.20
TC7S32FFTR-ND	2-Input OR Gate (74HC32)* ***NEW!***	SMV-5		243.00/3,000	
TC7SET00FCT-ND	Single TTL NAND Gate	SMV-5	.36	.29	.20
TC7SET00FTR-ND	Single TTL NAND Gate	SMV-5		243.00/3,000	
TC7SET00FUTCT-ND	Single TTL NAND Gate	USV-5	.36	.29	.20
TC7SET00FUTTR-ND	Single TTL NAND Gate	USV-5		243.00/3,000	
TC7SET00FUTFCT-ND	2-Input NAND Gate* ***NEW!***	USV-5	.36	.29	.20
TC7SET00FUTFTR-ND	2-Input NAND Gate* ***NEW!***	USV-5		243.00/3,000	
TC7SET02FCT-ND	Single TTL NOR Gate	SMV-5	.36	.29	.20
TC7SET02FTR-ND	Single TTL NOR Gate	SMV-5		243.00/3,000	
TC7SET02FUTCT-ND	Single TTL NOR Gate	USV-5	.36	.29	.20
TC7SET04FCT-ND	Single TTL Inverter Gate	SMV-5	.36	.29	.20
TC7SET04FFCT-ND	Single TTL Inverter Gate* ***NEW!***	SMV-5	.36	.29	.20
TC7SET04FFTR-ND	Single TTL Inverter Gate* ***NEW!***	SMV-5		243.00/3,000	
TC7SET04FUTCT-ND	Single TTL Inverter Gate	USV-5	.36	.29	.20
TC7SET04FUTTR-ND	Single TTL Inverter Gate	USV-5		243.00/3,000	
TC7SET04FUTFCT-ND	Single TTL Inverter Gate* ***NEW!***	USV-5	.36	.29	.20
TC7SET04FUTFTR-ND	Single TTL Inverter Gate* ***NEW!***	USV-5		243.00/3,000	
TC7SET08FCT-ND	Single TTL AND Gate	SMV-5	.36	.29	.20
TC7SET08FTR-ND	Single TTL AND Gate	SMV-5		243.00/3,000	
TC7SET08FFCT-ND	2-Input AND Gate* ***NEW!***	SMV-5	.36	.29	.20
TC7SET08FFTR-ND	2-Input AND Gate* ***NEW!***	SMV-5		243.00/3,000	
TC7SET08FUTCT-ND	Single TTL AND Gate	USV-5	.36	.29	.20
TC7SET08FUTTR-ND	Single TTL AND Gate	USV-5		243.00/3,000	
TC7SET08FUTFCT-ND	2-Input AND Gate* ***NEW!***	USV-5	.36	.29	.20
TC7SET08FUTFTR-ND	2-Input AND Gate* ***NEW!***	USV-5		243.00/3,000	
TC7SET32FCT-ND	Single TTL OR Gate	SMV-5	.36	.29	.20
TC7SET32FTR-ND	Single TTL OR Gate	SMV-5		243.00/3,000	
TC7SET32FFCT-ND	2-Input OR Gate* ***NEW!***	SMV-5	.36	.29	.20
TC7SET32FFTR-ND	2-Input OR Gate* ***NEW!***	SMV-5		243.00/3,000	
TC7SET32FUTCT-ND	Single TTL OR Gate	USV-5	.36	.29	.20
TC7SET32FUTTR-ND	Single TTL OR Gate	USV-5		243.00/3,000	
TC7SET32FUTFCT-ND	2-Input OR Gate* ***NEW!***	USV-5	.36	.29	.20
TC7SET32FUTFTR-ND	2-Input OR Gate* ***NEW!***	USV-5		243.00/3,000	
TC7SH00FCT-ND	Single VHS NAND Gate	SMV-5	.29	.24	.17
TC7SH00FTR-ND	Single VHS NAND Gate	SMV-5		229.50/3,000	
TC7SH00FFCT-ND	2-Input NAND Gate* ***NEW!***	SMV-5	.36	.29	.20
TC7SH00FFTR-ND	2-Input NAND Gate* ***NEW!***	SMV-5		243.00/3,000	
TC7SH02FCT-ND	Single TTL NOR Gate	SMV-5	.36	.29	.20
TC7SH02FTR-ND	Single TTL NOR Gate	SMV-5		243.00/3,000	
TC7SH02FFCT-ND	2-Input NOR Gate* ***NEW!***	SMV-5	.36	.29	.20
TC7SH02FFTR-ND	2-Input NOR Gate* ***NEW!***	SMV-5		243.00/3,000	
TC7SH04FCT-ND	Single VHS Inverter	SMV-5	.36	.29	.20
TC7SH04FTR-ND	Single VHS Inverter	SMV-5		243.00/3,000	
TC7SH04FFCT-ND	Single Inverter* ***NEW!***	SMV-5	.36	.29	.20
TC7SH04FFTR-ND	Single Inverter* ***NEW!***	SMV-5		243.00/3,000	
TC7SH32FCT-ND	Single VHS OR Gate	SMV-5	.36	.29	.20
TC7SH32FFCT-ND	2-Input OR Gate* ***NEW!***	SMV-5	.36	.29	.20
TC7SH32FFTR-ND	2-Input OR Gate* ***NEW!***	SMV-5		243.00/3,000	
TC7SH86FCT-ND	Single VHS Exclusive OR Gate	SMV-5	.36	.29	.20
TC7SH86FFCT-ND	Exclusive OR Gate* ***NEW!***	SMV-5	.36	.29	.20
TC7SH86FFTR-ND	Exclusive OR Gate* ***NEW!***	SMV-5		243.00/3,000	
TC7SH86FUTCT-ND	Single VHS Exclusive OR Gate	USV-5	.36	.29	.20
TC7SH86FUTTR-ND	Single VHS Exclusive OR Gate	USV-5		243.00/3,000	
TC7SH86FUTFCT-ND	Exclusive OR Gate* ***NEW!***	USV-5	.36	.29	.20
TC7SH86FUTFTR-ND	Exclusive OR Gate* ***NEW!***	USV-5		243.00/3,000	
TC7SHU04FCT-ND	Single Unbuffered VHS Inverter	SMV-5	.36	.29	.20
TC7SL00FUTCT-ND	Single 1 Volt NAND Gate	USV-5	.29	.24	.17
TC7SL00FUTTR-ND	Single 1 Volt NAND Gate	USV-5		229.50/3,000	
TC7SL00FUTFCT-ND	2-Input NAND Gate* ***NEW!***	USV-5	.36	.29	.20
TC7SL00FUTFTR-ND	2-Input NAND Gate* ***NEW!***	USV-5		243.00/3,000	
TC7SL02FUTCT-ND	Single 1 Volt NOR Gate	USV-5	.36	.29	.20
TC7SL02FUTTR-ND	Single 1 Volt NOR Gate	USV-5		243.00/3,000	
TC7SL04FUTCT-ND	Single 1 Volt Inverter	USV-5	.36	.29	.20
TC7SL04FUTTR-ND	Single 1 Volt Inverter	USV-5		243.00/3,000	
TC7SL04FUTFCT-ND	Single 1 Volt Inverter* ***NEW!***	USV-5	.36	.29	.20
TC7SL04FUTFTR-ND	Single 1 Volt Inverter* ***NEW!***	USV-5		243.00/3,000	
TC7SL08FUTCT-ND	Single 1 Volt AND Gate	USV-5	.36	.29	.20
TC7SL08FUTFCT-ND	Single 1 Volt AND Gate* ***NEW!***	USV-5	.36	.29	.20
TC7SL08FUTFTR-ND	Single 1 Volt AND Gate* ***NEW!***	USV-5		243.00/3,000	
TC7SL32FUTCT-ND	Single 1 Volt OR Gate	USV-5	.36	.29	.20
TC7SLU04FUTCT-ND	Single 1 Volt Unbuffered Inverter	USV-5	.29	.24	.17
TC7SLU04FUTTR-ND	Single 1 Volt Unbuffered Inverter	USV-5		229.50/3,000	
TC7SLU04FUTFCT-ND	Single 1 Volt Unbuffered Inverter* ***NEW!***	USV-5	.36	.29	.20
TC7SLU04FUTFTR-ND	Single 1 Volt Unbuffered Inverter* ***NEW!***	USV-5		243.00/3,000	
TC7ST00FCT-ND	Single TTL NAND Gate	SMV-5	.75	.63	.50
TC7ST00FUTCT-ND	Single TTL NAND Gate	USV-5	.83	.69	.55
TC7ST02FCT-ND	Single TTL NOR Gate	SMV-5	.75	.63	.50
TC7ST32FUTCT-ND	Single TTL OR Gate	USV-5	.83	.69	.55
TC7SU04FCT-ND	Single Inverter (74HCU04)	SMV-5	.36	.29	.20
TC7SU04FTR-ND	Single Inverter (74HCU04)	SMV-5		243.00/3,000	
TC7SU04FFCT-ND	Single Inverter (74HCU04)* ***NEW!***	SMV-5	.36	.29	.20
TC7SU04FFTR-ND	Single Inverter (74HCU04)* ***NEW!***	SMV-5		243.00/3,000	
TC7SZ00FCT-ND	2-Input NAND Gate	SMV-5	.38	.30	.21
TC7SZ00FTR-ND	2-Input NAND Gate	SMV-5		253.80/3,000	
TC7SZ00FFCT-ND	2-Input NAND Gate* ***NEW!***	SMV-5	.36	.29	.20
TC7SZ00FFTR-ND	2-Input NAND Gate* ***NEW!***	SMV-5		243.00/3,000	
TC7SZ00FUTCT-ND	2-Input NAND Gate	USV-5	.31	.25	.17
TC7SZ00FUTTR-ND	2-Input NAND Gate	USV-5		183.30/3,000	
TC7SZ00FUTFCT-ND	2-Input NAND Gate* ***NEW!***	USV-5	.38	.30	.21
TC7SZ00FUTFTR-ND	2-Input NAND Gate* ***NEW!***	USV-5		253.80/3,000	
TC7SZ02FCT-ND	2-Input NOR Gate	SMV-5	.38	.30	.21
TC7SZ02FTR-ND	2-Input NOR Gate	SMV-5		253.80/3,000	
TC7SZ02FUTCT-ND	2-Input NOR Gate	USV-5	.38	.30	.21
TC7SZ04FCT-ND	Single Inverter Gate	SMV-5	.38	.30	.21
TC7SZ04FFCT-ND	Single Inverter Gate* ***NEW!***	SMV-5	.36	.29	.20
TC7SZ04FFTR-ND	Single Inverter Gate* ***NEW!***	SMV-5		243.00/3,000	
TC7SZ04FUTCT-ND	Single Inverter Gate	USV-5	.31	.25	.17
TC7SZ04FUTTR-ND	Single Inverter Gate	USV-5		183.30/3,000	
TC7SZ04FUTFCT-ND	Single Inverter Gate* ***NEW!***	USV-5	.38	.30	.21
TC7SZ04FUTFTR-ND	Single Inverter Gate* ***NEW!***	USV-5		253.80/3,000	
TC7SZ05FCT-ND	Inverter (Open Drain)	SMV-5	.38	.30	.21
TC7SZ05FUTCT-ND	Inverter (Open Drain)	USV-5	.38	.30	.21
TC7SZ05FUTTR-ND	Inverter (Open Drain)	USV-5		253.80/3,000	
TC7SZ05FUTFCT-ND	Inverter (Open Drain)* ***NEW!***	USV-5	.38	.30	.21
TC7SZ05FUTFTR-ND	Inverter (Open Drain)* ***NEW!***	USV-5		253.80/3,000	
TC7SZ08FCT-ND	2-Input AND Gate	SMV-5	.38	.30	.21
TC7SZ08FTR-ND	2-Input AND Gate	SMV-5		253.80/3,000	
TC7SZ08FFCT-ND	2-Input AND Gate* ***NEW!***	SMV-5	.36	.29	.20
TC7SZ08FFTR-ND	2-Input AND Gate* ***NEW!***	SMV-5		243.00/3,000	
TC7SZ08FUTCT-ND	2-Input AND Gate	USV-5	.38	.30	.21
TC7SZ08FUTTR-ND	2-Input AND Gate	USV-5		253.80/3,000	
TC7SZ08FUTFCT-ND	2-Input AND Gate* ***NEW!***	USV-5	.32	.25	.18
TC7SZ08FUTFTR-ND	2-Input AND Gate* ***NEW!***	USV-5		216.00/3,000	
TC7SZ32FCT-ND	2-Input OR Gate	SMV-5	.36	.29	.20
TC7SZ32FTR-ND	2-Input OR Gate	SMV-5		243.00/3,000	
TC7SZ32FFCT-ND	2-Input OR Gate* ***NEW!***	SMV-5	.32	.25	.18
TC7SZ32FFTR-ND	2-Input OR Gate* ***NEW!***	SMV-5		216.00/3,000	
TC7SZ32FUTCT-ND	2-Input OR Gate	USV-5	.38	.30	.21
TC7SZ32FUTTR-ND	2-Input OR Gate	USV-5		253.80/3,000	
TC7SZ32FUTFCT-ND	2-Input OR Gate* ***NEW!***	USV-5	.32	.25	.18
TC7SZ32FUTFTR-ND	2-Input OR Gate* ***NEW!***	USV-5		216.00/3,000	
TC7SZ125FCT-ND	Bus Buffer Tri-State Output	SMV-5	.38	.30	.21
TC7SZ125FFCT-ND	Bus Buffer Tri-State Output* ***NEW!***	SMV-5	.38	.30	.21
TC7SZ125FFTR-ND	Bus Buffer Tri-State Output* ***NEW!***	SMV-5		253.80/3,000	
TC7SZ125FUTCT-ND	Bus Buffer Tri-State Output	USV-5	.38	.30	.21
TC7SZ125FUTFCT-ND	Bus Buffer Tri-State Output* ***NEW!***	USV-5	.32	.25	.18
TC7SZ125FUTFTR-ND	Bus Buffer Tri-State Output* ***NEW!***	USV-5		216.00/3,000	
TC7SZ126FCT-ND	Bus Buffer Tri-State Output	SMV-5	.38	.30	.21
TC7SZ126FTR-ND	Bus Buffer Tri-State Output	SMV-5		253.80/3,000	
TC7SZ126FUTCT-ND	Bus Buffer Tri-State Output	USV-5	.38	.30	.21
TC7SZ126FUTTR-ND	Bus Buffer Tri-State Output	USV-5		253.80/3,000	
TC7SZ126FUTFCT-ND	Bus Buffer Tri-State Output* ***NEW!***	USV-5	.36	.29	.20
TC7SZ126FUTFTR-ND	Bus Buffer Tri-State Output* ***NEW!***	USV-5		243.00/3,000	
TC7SZU04FCT-ND	Inverter (Unbuffered)	SMV-5	.36	.29	.20
TC7SZU04FFCT-ND	Inverter (Unbuffered)* ***NEW!***	SMV-5	.36	.29	.20
TC7SZU04FFTR-ND	Inverter (Unbuffered)* ***NEW!***	SMV-5		243.00/3,000	

****RoHS Compliant***

(Continued)

TOSHIBA LMOS SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC7SZU04FUTCT-ND	Inverter (Unbuffered)	USV-5	.38	.30	.21
TC7SZU04FUTTR-ND	Inverter (Unbuffered)	USV-5	253.80/3,000		
TC7SZU04FUTFCT-ND	Inverter (Unbuffered)* ***NEW!***	USV-5	.38	.30	.21
TC7SZU04FUTFTR-ND	Inverter (Unbuffered)* ***NEW!***	USV-5	253.80/3,000		
TC7W00FCT-ND	Dual 2-Input NAND Gate (74HC00)	FM8	.36	.27	.21
TC7W00FTR-ND	Dual 2-Input NAND Gate (74HC00)	FM8	119.70/1,000		
TC7W00FFCT-ND	Dual 2-Input NAND Gate (74HC00)* ***NEW!***	FM8	.45	.36	.27
TC7W00FFTR-ND	Dual 2-Input NAND Gate (74HC00)* ***NEW!***	FM8	126.00/1,000		
TC7W00FKCT-ND	Dual 2-Input NAND Gate	US8-8	.36	.27	.21
TC7W00FKTR-ND	Dual 2-Input NAND Gate	US8-8	351.00/3,000		
TC7W00FKFCT-ND	Dual 2-Input NAND Gate* ***NEW!***	US8-8	.47	.38	.29
TC7W00FKFTR-ND	Dual 2-Input NAND Gate* ***NEW!***	US8-8	380.70/3,000		
TC7W00FUTCT-ND	Dual 2-Input NAND Gate	SM8-8	.45	.36	.27
TC7W00FUTTR-ND	Dual 2-Input NAND Gate	SM8-8	364.50/3,000		
TC7W00FUTFCT-ND	Dual 2-Input NAND Gate* ***NEW!***	SM8-8	.45	.36	.27
TC7W00FUTFTR-ND	Dual 2-Input NAND Gate* ***NEW!***	SM8-8	364.50/3,000		
TC7W02FCT-ND	Dual 2-Input NOR Gate (74HC02)	FM8	.45	.36	.27
TC7W02FKCT-ND	Dual 2-Input NOR Gate	US8-8	.47	.38	.29
TC7W02FKTR-ND	Dual 2-Input NOR Gate	US8-8	380.70/3,000		
TC7W02FUTCT-ND	Dual 2-Input NOR Gate	SM8-8	.45	.36	.27
TC7W02FUTTR-ND	Dual 2-Input NOR Gate	SM8-8	364.50/3,000		
TC7W02FUTFCT-ND	Dual 2-Input NOR Gate* ***NEW!***	SM8-8	.45	.36	.27
TC7W02FUTFTR-ND	Dual 2-Input NOR Gate* ***NEW!***	SM8-8	364.50/3,000		
TC7W04FCT-ND	Triple Inverter (74HC04)	FM8	.45	.36	.27
TC7W04FTR-ND	Triple Inverter (74HC04)	FM8	126.00/1,000		
TC7W04FFCT-ND	Triple Inverter (74HC04)* ***NEW!***	FM8	.45	.36	.27
TC7W04FFTR-ND	Triple Inverter (74HC04)* ***NEW!***	FM8	126.00/1,000		
TC7W04FKCT-ND	Triple Inverter (74HC04)	US8-8	.38	.29	.22
TC7W04FKTR-ND	Triple Inverter (74HC04)	US8-8	366.60/3,000		
TC7W04FKFCT-ND	Triple Inverter (74HC04)* ***NEW!***	US8-8	.47	.38	.29
TC7W04FKFTR-ND	Triple Inverter (74HC04)* ***NEW!***	US8-8	380.70/3,000		
TC7W04FUTCT-ND	Triple Inverter (74HC04)	SM8-8	.45	.36	.27
TC7W04FUTTR-ND	Triple Inverter (74HC04)	SM8-8	364.50/3,000		
TC7W04FUTFCT-ND	Triple Inverter (74HC04)* ***NEW!***	SM8-8	.45	.36	.27
TC7W04FUTFTR-ND	Triple Inverter (74HC04)* ***NEW!***	SM8-8	364.50/3,000		
TC7W08FCT-ND	Dual 2-Input AND Gate (74HC08)	FM8	.45	.36	.27
TC7W08FTR-ND	Dual 2-Input AND Gate (74HC08)	FM8	126.00/1,000		
TC7W08FFCT-ND	Dual 2-Input AND Gate (74HC08)* ***NEW!***	FM8	.45	.36	.27
TC7W08FFTR-ND	Dual 2-Input AND Gate (74HC08)* ***NEW!***	FM8	126.00/1,000		
TC7W08FKCT-ND	Dual 2-Input AND Gate (74HC08)	US8-8	.38	.29	.22
TC7W08FKTR-ND	Dual 2-Input AND Gate (74HC08)	US8-8	366.60/3,000		
TC7W08FKFCT-ND	Dual 2-Input AND Gate (74HC08)* ***NEW!***	US8-8	.47	.38	.29
TC7W08FKFTR-ND	Dual 2-Input AND Gate (74HC08)* ***NEW!***	US8-8	380.70/3,000		
TC7W08FUTCT-ND	Dual 2-Input AND Gate (74HC08)	SM8-8	.45	.36	.27
TC7W08FUTFCT-ND	Dual 2-Input AND Gate (74HC08)* ***NEW!***	SM8-8	.45	.36	.27
TC7W08FUTFTR-ND	Dual 2-Input AND Gate (74HC08)* ***NEW!***	SM8-8	364.50/3,000		
TC7W14FKCT-ND	Schmitt Inverter	US8-8	.47	.38	.29
TC7W14FKTR-ND	Schmitt Inverter	US8-8	380.70/3,000		
TC7W14FKFCT-ND	Schmitt Inverter* ***NEW!***	US8-8	.47	.38	.29
TC7W14FKFTR-ND	Schmitt Inverter* ***NEW!***	US8-8	380.70/3,000		
TC7W32FCT-ND	Dual 2-Input OR Gate (74HC32)	FM8	.45	.36	.27
TC7W32FTR-ND	Dual 2-Input OR Gate (74HC32)	FM8	126.00/1,000		
TC7W32FFCT-ND	Dual 2-Input OR Gate (74HC32)* ***NEW!***	FM8	.45	.36	.27
TC7W32FFTR-ND	Dual 2-Input OR Gate (74HC32)* ***NEW!***	FM8	126.00/1,000		
TC7W32FKCT-ND	Dual 2-Input OR Gate (74HC32AP/F)	US8-8	.47	.38	.29
TC7W32FKTR-ND	Dual 2-Input OR Gate (74HC32AP/F)	US8-8	380.70/3,000		
TC7W32FKFCT-ND	Dual 2-Input OR Gate (74HC32AP/F)* ***NEW!***	US8-8	.47	.38	.29
TC7W32FKFTR-ND	Dual 2-Input OR Gate (74HC32AP/F)* ***NEW!***	US8-8	380.70/3,000		
TC7W32FUTCT-ND	Dual 2-Input OR Gate (74HC32AP/F)	SM8-8	.45	.36	.27
TC7W32FUTFCT-ND	Dual 2-Input OR Gate (74HC32AP/F)* ***NEW!***	SM8-8	.45	.36	.27
TC7W32FUTFTR-ND	Dual 2-Input OR Gate (74HC32AP/F)* ***NEW!***	SM8-8	364.50/3,000		
TC7W34FKCT-ND	Triple Non-Inverting Buffer (TC7W34FU)	US8-8	.47	.38	.29
TC7W34FKTR-ND	Triple Non-Inverting Buffer (TC7W34FU)	US8-8	380.70/3,000		
TC7W34FKFCT-ND	Triple Non-Inverting Buffer (TC7W34FU)* ***NEW!***	US8-8	.47	.38	.29
TC7W34FKFTR-ND	Triple Non-Inverting Buffer (TC7W34FU)* ***NEW!***	US8-8	380.70/3,000		
TC7W53FKCT-ND	2-Channel Multiplexer/Demultiplexer	US8-8	.47	.38	.29
TC7W53FKTR-ND	2-Channel Multiplexer/Demultiplexer	US8-8	380.70/3,000		
TC7W53FKFCT-ND	2-Channel Multiplexer/Demultiplexer* ***NEW!***	US8-8	.47	.38	.29
TC7W53FKFTR-ND	2-Channel Multiplexer/Demultiplexer* ***NEW!***	US8-8	380.70/3,000		
TC7W66FKCT-ND	Dual Bilateral Switch	US8-8	.47	.38	.29
TC7W66FKTR-ND	Dual Bilateral Switch	US8-8	380.70/3,000		
TC7W66FUTFCT-ND	Dual Bilateral Switch* ***NEW!***	SM8-8	.45	.36	.27
TC7W66FUTFTR-ND	Dual Bilateral Switch* ***NEW!***	SM8-8	364.50/3,000		
TC7W74FKCT-ND	D-Type Flip-Flop with Preset and Clear	US8-8	.47	.38	.29
TC7W74FKTR-ND	D-Type Flip-Flop with Preset and Clear	US8-8	380.70/3,000		
TC7W74FKFCT-ND	D-Type Flip-Flop with Preset and Clear* ***NEW!***	US8-8	.47	.38	.29
TC7W74FKFTR-ND	D-Type Flip-Flop with Preset and Clear* ***NEW!***	US8-8	380.70/3,000		
TC7W74FUTCT-ND	D-Type Flip-Flop	SM8-8	.36	.27	.21
TC7W74FUTFCT-ND	D-Type Flip-Flop* ***NEW!***	SM8-8	.45	.36	.27
TC7W74FUTFTR-ND	D-Type Flip-Flop* ***NEW!***	SM8-8	364.50/3,000		
TC7W125FUTCT-ND	Dual Bus Buffer	SM8-8	.45	.36	.27
TC7W125FUTTR-ND	Dual Bus Buffer	SM8-8	364.50/3,000		
TC7W125FUTFCT-ND	Dual Bus Buffer* ***NEW!***	SM8-8	.45	.36	.27
TC7W125FUTFTR-ND	Dual Bus Buffer* ***NEW!***	SM8-8	364.50/3,000		
TC7W126FUTCT-ND	Dual Bus Buffer	SM8-8	.45	.36	.27
TC7W126FUTTR-ND	Dual Bus Buffer	SM8-8	364.50/3,000		
TC7W126FUTFCT-ND	Dual Bus Buffer* ***NEW!***	SM8-8	.45	.36	.27
TC7W126FUTFTR-ND	Dual Bus Buffer* ***NEW!***	SM8-8	364.50/3,000		
TC7WH00FUTCT-ND	Dual 2-Input NAND Gate	SM8-8	.45	.36	.27
TC7WH00FUTTR-ND	Dual 2-Input NAND Gate	SM8-8	364.50/3,000		
TC7WH00FUTFCT-ND	Dual 2-Input NAND Gate* ***NEW!***	SM8-8	.45	.36	.27
TC7WH00FUTFTR-ND	Dual 2-Input NAND Gate* ***NEW!***	SM8-8	364.50/3,000		
TC7WH02FKCT-ND	Dual 2-Input NOR Gate	US8-8	.47	.38	.29
TC7WH02FKTR-ND	Dual 2-Input NOR Gate	US8-8	380.70/3,000		
TC7WH02FUTCT-ND	Dual 2-Input NOR Gate	SM8-8	.45	.36	.27
TC7WH02FUTTR-ND	Dual 2-Input NOR Gate	SM8-8	364.50/3,000		
TC7WH04FKCT-ND	Triple Inverter	US8-8	.47	.38	.29
TC7WH04FKTR-ND	Triple Inverter	US8-8	380.70/3,000		
TC7WH04FKFCT-ND	Triple Inverter****NEW!***	US8-8	.47	.38	.29
TC7WH04FKFTR-ND	Triple Inverter****NEW!***	US8-8	380.70/3,000		
TC7WH04FUTCT-ND	Triple Inverter	SM8-8	.36	.27	.21
TC7WH04FUTTR-ND	Triple Inverter	SM8-8	351.00/3,000		
TC7WH04FUTFCT-ND	Triple Inverter****NEW!***	SM8-8	.45	.36	.27
TC7WH04FUTFTR-ND	Triple Inverter****NEW!***	SM8-8	364.50/3,000		
TC7WH08FKCT-ND	Dual 2-Input AND Gate	US8-8	.47	.38	.29
TC7WH08FKTR-ND	Dual 2-Input AND Gate	US8-8	380.70/3,000		
TC7WH08FUTCT-ND	Dual 2-Input AND Gate	SM8-8	.45	.36	.27
TC7WH14FKCT-ND	Triple Schmitt Inverter	US8-8	.47	.38	.29
TC7WH14FUTCT-ND	Triple Schmitt Inverter	SM8-8	.45	.36	.27
TC7WH14FUTTR-ND	Triple Schmitt Inverter	SM8-8	364.50/3,000		
TC7WH14FUTFCT-ND	Triple Schmitt Inverter* ***NEW!***	SM8-8	.45	.36	.27
TC7WH14FUTFTR-ND	Triple Schmitt Inverter* ***NEW!***	SM8-8	364.50/3,000		
TC7WH32FKCT-ND	Dual 2-Input OR Gate	US8-8	.47	.38	.29
TC7WH32FKTR-ND	Dual 2-Input OR Gate	US8-8	380.70/3,000		
TC7WH32FKFCT-ND	Dual 2-Input OR Gate* ***NEW!***	US8-8	.47	.38	.29
TC7WH32FKFTR-ND	Dual 2-Input OR Gate* ***NEW!***	US8-8	380.70/3,000		
TC7WH32FUTCT-ND	Dual 2-Input OR Gate	SM8-8	.45	.36	.27
TC7WH32FUTTR-ND	Dual 2-Input OR Gate	SM8-8	364.50/3,000		
TC7WH34FKCT-ND	Triple Buffer	US8-8	.47	.38	.29
TC7WH34FUTCT-ND	Triple Buffer	SM8-8	.45	.36	.27
TC7WH34FUTTR-ND	Triple Buffer	SM8-8	364.50/3,000		
TC7WH74FKCT-ND	D-Type Flip-Flop with Preset and Clear	US8-8	.47	.38	.29
TC7WH74FKTR-ND	D-Type Flip-Flop with Preset and Clear	US8-8	380.70/3,000		
TC7WH74FKFCT-ND	D-Type Flip-Flop with Preset and Clear* ***NEW!***	US8-8	.47	.38	.29
TC7WH74FKFTR-ND	D-Type Flip-Flop with Preset and Clear* ***NEW!***	US8-8	380.70/3,000		
TC7WH74FUTCT-ND	D-Type Flip-Flop with Preset and Clear	SM8-8	.45	.36	.27
TC7WH74FUTTR-ND	D-Type Flip Flop with Preset and Clear	SM8-8	364.50/3,000		
TC7WH74FUTFCT-ND	D-Type Flip-Flop with Preset and Clear* ***NEW!***	SM8-8	.45	.36	.27
TC7WH74FUTFTR-ND	D-Type Flip-Flop with Preset and Clear* ***NEW!***	SM8-8	364.50/3,000		
TC7WH123FKCT-ND	Monostable Multivibrator	US8-8	.47	.38	.29
TC7WH123FKTR-ND	Monostable Multivibrator	US8-8	380.70/3,000		
TC7WH123FKFCT-ND	Monostable Multivibrator* ***NEW!***	US8-8	.47	.38	.29
TC7WH123FKFTR-ND	Monostable Multivibrator* ***NEW!***	US8-8	380.70/3,000		
TC7WH123FUTCT-ND	Monostable Multivibrator	SM8-8	.45	.36	.27
TC7WH123FUTTR-ND	Monostable Multivibrator	SM8-8	364.50/3,000		
TC7WH123FUTFCT-ND	Monostable Multivibrator* ***NEW!***	SM8-8	.45	.36	.27
TC7WH123FUTFTR-ND	Monostable Multivibrator* ***NEW!***	SM8-8	364.50/3,000		
TC7WH125FKCT-ND	Dual Bus Buffer	US8-8	.47	.38	.29
TC7WH125FKTR-ND	Dual Bus Buffer	US8-8	380.70/3,000		
TC7WH125FKFCT-ND	Dual Bus Buffer* ***NEW!***	US8-8	.47	.38	.29
TC7WH125FKFTR-ND	Dual Bus Buffer* ***NEW!***	US8-8	380.70/3,000		
TC7WH126FKCT-ND	Dual Bus Buffer	US8-8	.47	.38	.29
TC7WH157FKCT-ND	2-Channel Multiplexer	US8-8	.47	.38	.29
TC7WH157FKTR-ND	2-Channel Multiplexer	US8-8	380.70/3,000		
TC7WH157FKFCT-ND	2-Channel Multiplexer* ***NEW!***	US8-8	.47	.38	.29
TC7WH157FKFTR-ND	2-Channel Multiplexer* ***NEW!***	US8-8	380.70/3,000		
TC7WH157FUTCT-ND	2-Channel Multiplexer	SM8-8	.45	.36	.27
TC7WH157FUTTR-ND	2-Channel Multiplexer	SM8-8	364.50/3,000		
TC7WH157FUTFCT-ND	2-Channel Multiplexer* ***NEW!***	SM8-8	.45	.36	.27
TC7WH157FUTFTR-ND	2-Channel Multiplexer* ***NEW!***	SM8-8	364.50/3,000		
TC7WH240FKCT-ND	Dual Bus Buffer Inverted, Tri-State Output	US8-8	.47	.38	.29
TC7WH240FKTR-ND	Dual Bus Buffer Inverted, Tri-State Output	US8-8	380.70/3,000		
TC7WH240FUTCT-ND	Dual Bus Buffer Inverted, Tri-State Output	SM8-8	.45	.36	.27
TC7WH241FKCT-ND	Dual Bus Buffer Non-Inverted, Tri-State Output	US8-8	.47	.38	.29
TC7WH241FKTR-ND	Dual Bus Buffer Non-Inverted, Tri-State Output	US8-8	380.70/3,000		
TC7WH241FKFCT-ND	Dual Bus Buffer Non-Inverted, Tri-State Output* ***NEW!***	US8-8	.47	.38	.29
TC7WH241FKFTR-ND	Dual Bus Buffer Non-Inverted, Tri-State Output* ***NEW!***	US8-8	380.70/3,000		
TC7WH241FUTCT-ND	Dual Bus Buffer Non-Inverted, Tri-State Output	SM8-8	.45	.36	.27
TC7WH241FUTTR-ND	Dual Bus Buffer Non-Inverted, Tri-State Output	SM8-8	364.50/3,000		
TC7WH241FUTFCT-ND	Dual Bus Buffer Non-Inverted, Tri-State Output* ***NEW!***	SM8-8	.45	.36	.27
TC7WH241FUTFTR-ND	Dual Bus Buffer Non-Inverted, Tri-State Output* ***NEW!***	SM8-8	364.50/3,000		
TC7WH245FUTCT-ND	Dual Bus Transceiver	SM8-8	.45	.36	.27
TC7WH245FUTTR-ND	Dual Bus Transceiver	SM8-8	364.50/3,000		
TC7WHU04FKCT-ND	Triple Inverter	US8-8	.47	.38	.29
TC7WHU04FUTCT-ND	Triple Inverter	SM8-8	.45	.36	.27
TC7WHU04FUTFCT-ND	Triple Inverter* ***NEW!***	SM8-8	.45	.36	.27
TC7WHU04FUTFTR-ND	Triple Inverter* ***NEW!***	SM8-8	364.50/3,000		
TC7WT125FUTCT-ND	Dual Bus Buffer	SM8-8	.55	.44	.33
TC7WT125FUTTR-ND	Dual Bus Buffer	SM8-8	445.50/3,000		
TC7WT125FUTFCT-ND	Dual Bus Buffer* ***NEW!***	SM8-8	.55	.44	.33
TC7WT125FUTFTR-ND	Dual Bus Buffer* ***NEW!***	SM8-8	445.50/3,000		
TC7WU04FCT-ND	Triple Inverter (74HCU04)	FM8	.45	.36	.27
TC7WU04FTR-ND	Triple Inverter (74HCU04)	FM8	126.00/1,000		
TC7WU04FFCT-ND	Triple Inverter (74HCU04)* ***NEW!***	FM8	.45	.36	.27
TC7WU04FFTR-ND	Triple Inverter (74HCU04)* ***NEW!***	FM8	126.00/1,000		
TC7WU04FKCT-ND	Triple Inverter	US8-8	.47	.38	.29
TC7WU04FKTR-ND	Triple Inverter	US8-8	380.70/3,000		
TC7WU04FKFCT-ND	Triple Inverter* ***NEW!***	US8-8	.47	.38	.29
TC7WU04FKFTR-ND	Triple Inverter* ***NEW!***	US8-8	380.70/3,000		
TC7WU04FUTCT-ND	Triple Inverter	SM8-8	.45	.36	.27
TC7WU04FUTFCT-ND	Triple Inverter* ***NEW!***	SM8-8	.45	.36	.27
TC7WU04FUTFTR-ND	Triple Inverter* ***NEW!***	SM8-8	364.50/3,000		

TOSHIBA LINEAR SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TC75S54FCT-ND	Single Op Amp	SMV-5	.72	.55	.41
TC75S54FTR-ND	Single Op Amp	SMV-5	705.90/3,000		
TC75S55FTCT-ND	Single Op Amp	SMV-5	.72	.55	.41
TC75S55FTTR-ND	Single Op Amp	SMV-5	705.900/3,000		
TC75W51FUTCT-ND	Dual Op Amp	SM8-8	.90	.76	.61
TC75W51FUTTR-ND	Dual Op Amp	SM8-8	1173.90/3,000		
TC75W54FUTCT-ND	Dual Op Amp	SM8-8	.36	.30	.21
TC75W54FUTTR-ND	Dual Op Amp	SM8-8	285.60/3,000		
TC75W54FUTFCT-ND	Dual Op Amp* ***NEW!***	SM8-8	.36	.30	.21
TC75W54FUTFTR-ND	Dual Op Amp* ***NEW!***	SM8-8	285.60/3,000		
TC75W55FUTCT-ND	Dual Op Amp	SM8-8	.90	.76	.61
TC75W55FUTTR-ND	Dual Op Amp	SM8-8	1173.90/3,000		

* ***RoHS Compliant***

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CA3140AEZ	CA3140AEZ-ND	4.5MHz BiMOS Op Amp*	8-Dip	1.16	.86	.62
CA3140AMZ	CA3140AMZ-ND	4.5MHz BiMOS Op Amp*	8-SOIC	1.20	.88	.64
CA3140MZ	CA3140MZ-ND	4.5MHz BiMOS Op Amp*	8-SOIC	1.54	1.13	.82
CA3240EZ	CA3240EZ-ND	4.5MHz Dual BiMOS Op Amp*	8-Dip	1.58	1.16	.84
EL2125CSZ	EL2125CSZ-ND	Low Noise, LP, Wideband Amp*	8-SOIC	4.35	3.31	2.53
EL2126CSZ	EL2126CSZ-ND	Low Noise, LP, Wideband Amp*	8-SOIC	2.80	2.13	1.63
EL2227CSZ	EL2227CSZ-ND	Dual Low Noise Amp*	8-SOIC	4.13	3.14	2.40
EL2244CSZ	EL2244CSZ-ND	Dual Low Power 120MHz Unity Gain Stable Op Amp*	8-SOIC	4.85	3.69	2.82
EL2250CS	EL2250CS-ND	125MHz Single Supply Dual Op Amp	8-SOIC	3.85	2.93	2.24
EL2480CS	EL2480CS-ND	250MHz Quad Current Feedback Amp	14-SOIC	4.03	3.06	2.34
EL2480CSZ	EL2480CSZ-ND	250MHz Quad Current Feedback Amp*	14-SOIC	4.03	3.06	2.34
EL4332CSZ	EL4332CSZ-ND	Triple 2:1, 300MHz Mux Amp*	16-SOIC	7.16	5.67	4.54
EL4340IUZ	EL4340IUZ-ND	500MHz Triple Mux Amp*	24-QSOP	5.69	4.50	3.61
EL4342ILZA	EL4342ILZA-ND	500MHz Triple Mux Amp*	32-QFN	7.49	6.42	5.70
EL4501IU	EL4501IU-ND	100MHz Video Front End	24-QSOP	7.50	5.93	4.75
EL4501IUZ	EL4501IUZ-ND	100MHz Video Front End*	24-QSOP	7.50	5.93	4.75
EL5100IS	EL5100IS-ND	200MHz Slew Enhanced VFA	8-SOIC	2.54	1.89	1.40
EL5100ISZ	EL5100ISZ-ND	200MHz Slew Enhanced VFA*	8-SOIC	2.54	1.89	1.40
EL5100IW-T7	EL5100IW-T7CT-ND	200MHz Slew Enhanced VFA	SOT-23-6	2.42	1.80	1.33
EL5101IW-T7	EL5101IW-T7CT-ND	200MHz Slew Enhanced VFA	SOT-23-5	1.67	1.25	.92
EL5101IW-T7	EL5101IW-T7TR-ND	200MHz Slew Enhanced VFA	SOT-23-5	2025.00/3,000		
EL5102IS	EL5102IS-ND	400MHz Slew Enhanced VFA	8-SOIC	2.26	1.68	1.25
EL5102ISZ	EL5102ISZ-ND	400MHz Slew Enhanced VFA*	8-SOIC	2.26	1.68	1.25
EL5104IS	EL5104IS-ND	700MHz Slew Enhanced VFA	8-SOIC	2.76	2.05	1.52
EL5104IW-T7	EL5104IW-T7CT-ND	700MHz Slew Enhanced VFA	SOT-23-6	2.76	2.05	1.52
EL5104IW-T7	EL5104IW-T7TR-ND	700MHz Slew Enhanced VFA	SOT-23-6	3339.00/3,000		
EL5105IW-T7	EL5105IW-T7CT-ND	700MHz Slew Enhanced VFA	SOT-23-5	2.76	2.05	1.52
EL5105IW-T7	EL5105IW-T7TR-ND	700MHz Slew Enhanced VFA	SOT-23-5	3339.00/3,000		
EL5105IWZ-T7A	EL5105IWZ-T7ACT-ND	700MHz Slew Enhanced VFA*	SOT-23-5	2.23	1.70	1.56
EL5105IWZ-T7A	EL5105IWZ-T7ATR-ND	700MHz Slew Enhanced VFA*	SOT-23-5	296.00/250		
EL5106IS	EL5106IS-ND	350MHz Fixed Gain Amp with Enable	8-SOIC	2.39	1.78	1.31
EL5106IW-T7	EL5106IW-T7CT-ND	350MHz Fixed Gain Amp with Enable	SOT-23-6	2.39	1.78	1.31
EL5106IW-T7	EL5106IW-T7TR-ND	350MHz Fixed Gain Amp with Enable	SOT-23-6	2889.00/3,000		
EL5108IS	EL5108IS-ND	450MHz Fixed Gain Amp with Enable	8-SOIC	2.64	1.96	1.45
EL5111IWTZ-T7A	EL5111IWTZ-T7ACT-ND	60MHz Rail-to-Rail In/Out Op Amp*	5-TSOT	3.23	2.46	2.26
EL5111IWTZ-T7A	EL5111IWTZ-T7ATR-ND	60MHz Rail-to-Rail In/Out Op Amp*	5-TSOT	429.00/250		
EL5120IWTZ-T7A	EL5120IWTZ-T7ACT-ND	12MHz Rail-to-Rail In/Out Op Amp*	5-TSOT	3.08	2.34	2.16
EL5120IWTZ-T7A	EL5120IWTZ-T7ATR-ND	12MHz Rail-to-Rail In/Out Op Amp*	5-TSOT	409.00/250		
EL5130IS	EL5130IS-ND	500MHz Low Noise Amp	8-SOIC	1.83	1.36	1.01
EL5131IW-T7	EL5131IW-T7CT-ND	500MHz Low Noise Amp	SOT-23-5	1.83	1.36	1.01
EL5132IS	EL5132IS-ND	670MHz Low Noise Amp	8-SOIC	2.57	1.91	1.42
EL5133IW-T7	EL5133IW-T7CT-ND	670MHz Low Noise Amp	SOT-23-5	2.57	1.91	1.42
EL5134IS	EL5134IS-ND	630MHz, Gain of 5, Low Noise Amp	8-SOIC	2.64	1.96	1.45
EL5144CW-T7	EL5144CW-T7CT-ND	100MHz Single Supply R/R Amp	SOT-23-5	2.29	1.71	1.26
EL5144CW-T7	EL5144CW-T7TR-ND	100MHz Single Supply R/R Amp	SOT-23-5	2850.00/3,000		
EL5146CN	EL5146CN-ND	100MHz Single Supply R/R Amp	8-Dip	2.67	1.98	1.47
EL5146CS	EL5146CS-ND	100MHz Single Supply R/R Amp	8-SOIC	2.67	1.98	1.47
EL5150IS	EL5150IS-ND	200MHz Amp	8-SOIC	2.88	2.19	1.67
EL5150IW-T7	EL5150IW-T7CT-ND	200MHz Amp	SOT-23-6	3.05	2.32	1.77
EL5151IW-T7	EL5151IW-T7CT-ND	200MHz Amp	SOT-23-5	2.88	2.19	1.67
EL5152IS	EL5152IS-ND	300MHz Volt. Mode Feedback Amp	8-SOIC	3.08	2.34	1.79
EL5152ISZ	EL5152ISZ-ND	270MHz Volt. Mode Feedback Amp*	8-SOIC	3.08	2.34	1.79
EL5153IW-T7	EL5153IW-T7CT-ND	300MHz Volt. Mode Feedback Amp	SOT-23-5	3.25	2.47	1.89
EL5156IS	EL5156IS-ND	600MHz Volt. Mode Feedback Amp	8-SOIC	3.25	2.47	1.89
EL5157IW-T7	EL5157IW-T7CT-ND	600MHz Volt. Mode Feedback Amp	SOT-23-5	3.25	2.47	1.89
EL5157IW-T7	EL5157IW-T7TR-ND	600MHz Volt. Mode Feedback Amp	SOT-23-5	4875.00/3,000		
EL5160IS	EL5160IS-ND	200MHz LP Current Feedback Amp	8-SOIC	1.74	1.29	.96
EL5160ISZ	EL5160ISZ-ND	200MHz LP Current Feedback Amp*	8-SOIC	1.74	1.29	.96
EL5160IW-T7	EL5160IW-T7CT-ND	200MHz LP Current Feedback Amp	SOT-23-6	1.73	1.27	.92
EL5160IW-T7	EL5160IW-T7TR-ND	200MHz LP Current Feedback Amp	SOT-23-6	1761.00/3,000		
EL5161IC-T7	EL5161IC-T7CT-ND	200MHz LP Current Feedback Amp	SC70-5	1.73	1.27	.92
EL5161IC-T7	EL5161IC-T7TR-ND	200MHz LP Current Feedback Amp	SC70-5	1761.00/3,000		
EL5161IW-T7	EL5161IW-T7CT-ND	200MHz LP Current Feedback Amp	SOT-23-5	1.73	1.27	.92
EL5161IW-T7	EL5161IW-T7TR-ND	200MHz LP Current Feedback Amp	SOT-23-5	1761.00/3,000		
EL5161IWZ-T7A	EL5161IWZ-T7ACT-ND	200MHz LP Current Feedback Amp*	SOT-23-5	1.43	1.06	.81
EL5161IWZ-T7A	EL5161IWZ-T7ATR-ND	200MHz LP Current Feedback Amp*	SOT-23-5	155.25/250		
EL5162IS	EL5162IS-ND	500MHz LP Current Feedback Amp	8-SOIC	2.85	2.12	1.57
EL5162ISZ	EL5162ISZ-ND	500MHz LP Current Feedback Amp*	8-SOIC	2.85	2.12	1.57
EL5162IWZ-T7A	EL5162IWZ-T7ACT-ND	500MHz LP Current Feedback Amp*	SOT-23-6	2.30	1.75	1.61
EL5162IWZ-T7A	EL5162IWZ-T7ATR-ND	500MHz LP Current Feedback Amp*	SOT-23-6	306.00/250		
EL5163IC-T7	EL5163IC-T7CT-ND	500MHz LP Current Feedback Amp	SC70-5	2.85	2.12	1.57
EL5163IC-T7	EL5163IC-T7TR-ND	500MHz LP Current Feedback Amp	SC70-5	3450.00/3,000		
EL5163IW-T7	EL5163IW-T7CT-ND	500MHz LP Current Feedback Amp	SOT-23-5	2.85	2.12	1.57
EL5163IW-T7	EL5163IW-T7TR-ND	500MHz LP Current Feedback Amp	SOT-23-5	3450.00/3,000		
EL5163IWZ-T7A	EL5163IWZ-T7ACT-ND	500MHz LP Current Feedback Amp*	SOT-23-5	2.30	1.75	1.61
EL5163IWZ-T7A	EL5163IWZ-T7ATR-ND	500MHz LP Current Feedback Amp*	SOT-23-5	306.00/250		
EL5164IS	EL5164IS-ND	600MHz Current Feedback Amp	8-SOIC	2.50	1.90	1.45
EL5164ISZ	EL5164ISZ-ND	600MHz Current Feedback Amp*	8-SOIC	2.50	1.90	1.45
EL5164IW-T7	EL5164IW-T7CT-ND	600MHz Current Feedback Amp	SOT-23-6	2.50	1.90	1.45
EL5164IW-T7	EL5164IW-T7TR-ND	600MHz Current Feedback Amp	SOT-23-6	3750.00/3,000		
EL5165IW-T7	EL5165IW-T7CT-ND	600MHz Current Feedback Amp	SOT-23-5	2.50	1.90	1.45
EL5165IW-T7	EL5165IW-T7TR-ND	600MHz Current Feedback Amp	SOT-23-5	3750.00/3,000		
EL5165IWZ-T7A	EL5165IWZ-T7ACT-ND	600MHz Current Feedback Amp*	SOT-23-5	2.50	1.90	1.75
EL5165IWZ-T7A	EL5165IWZ-T7ATR-ND	600MHz Current Feedback Amp*	SOT-23-5	332.50/250		
EL5166IS	EL5166IS-ND	1.4GHz Current Feedback Amp	8-SOIC	2.70	2.06	1.57
EL5166ISZ	EL5166ISZ-ND	1.4GHz Current Feedback Amp*	8-SOIC	2.70	2.06	1.57
EL5166IW-T7	EL5166IW-T7CT-ND	1.4GHz Current Feedback Amp	SOT-23-6	2.70	2.06	1.57
EL5166IWZ-T7A	EL5166IWZ-T7ACT-ND	1.4GHz Current Feedback Amp*	SOT-23-6	3.65	2.78	2.56
EL5166IWZ-T7A	EL5166IWZ-T7ATR-ND	1.4GHz Current Feedback Amp*	SOT-23-6	485.50/250		
EL5167IC-T7	EL5167IC-T7CT-ND	1.4GHz Current Feedback Amp	SC70-5	2.70	2.06	1.57
EL5167IC-T7	EL5167IC-T7TR-ND	1.4GHz Current Feedback Amp	SC70-5	4050.00/3,000		
EL5167ICZ-T7A	EL5167ICZ-T7ACT-ND	1.4GHz Current Feedback Amp*	SC70-5	2.70	2.06	1.89
EL5167ICZ-T7A	EL5167ICZ-T7ATR-ND	1.4GHz Current Feedback Amp*	SC70-5	359.00/250		
EL5167IW-T7	EL5167IW-T7CT-ND	1.4GHz Current Feedback Amp	SOT-23-5	2.70	2.06	1.57
EL5167IW-T7	EL5167IW-T7TR-ND	1.4GHz Current Feedback Amp	SOT-23-5	4050.00/3,000		
EL5167IWZ-T7A	EL5167IWZ-T7ACT-ND	1.4GHz Current Feedback Amp*	SOT-23-5	2.70	2.06	1.89
EL5167IWZ-T7A	EL5167IWZ-T7ATR-ND	1.4GHz Current Feedback Amp*	SOT-23-5	359.00/250		
EL5202IY	EL5202IY-ND	400MHz Slew Enhanced VFA	10-MSOP	2.63	2.00	1.53
EL5203IS	EL5203IS-ND	400MHz Slew Enhanced VFA	8-SOIC	2.63	2.00	1.53
EL5203IY	EL5203IY-ND	400MHz Slew Enhanced VFA	8-MSOP	2.63	2.00	1.53
EL5204IY	EL5204IY-ND	700MHz Slew Enhanced VFA	10-MSOP	3.93	2.99	2.28
EL5205IS	EL5205IS-ND	700MHz Slew Enhanced VFA	8-SOIC	3.93	2.99	2.28
EL5205IY	EL5205IY-ND	700MHz Slew Enhanced VFA	8-MSOP	3.93	2.99	2.28
EL5210CS	EL5210CS-ND	30MHz R/R Input/Output Op Amp	8-SOIC	3.50	2.66	2.03
EL5210CY	EL5210CY-ND	30MHz R/R Input/Output Op Amp	8-MSOP	3.50	2.66	2.03
EL5211IYE	EL5211IYE-ND	60MHz R/R Input/Output Op Amp	8-HMSOP	4.38	3.33	2.54
EL5220CYZ	EL5220CYZ-ND	12MHz R/R Input/Output Op Amp*	8-MSOP	2.80	2.13	1.63
EL5228IL-T7	EL5228IL-T7CT-ND	VCOM with Dual Gamma Buffer	10-DFN	2.60	1.94	1.43
EL5228IL-T7	EL5228IL-T7TR-ND	VCOM with Dual Gamma Buffer	10-DFN	3150.00/3,000		
EL5244CN	EL5244CN-ND	100MHz Single Supply, R/R Amp	8-Dip	3.04	2.26	1.67
EL5244CS	EL5244CS-ND	100MHz Single Supply, R/R Amp	8-SOIC	3.04	2.26	1.67
EL5246CS	EL5246CS-ND	100MHz Single Supply, R/R Amp	14-SOIC	3.68	2.80	2.14
EL5250IY	EL5250IY-ND	200MHz Volt. Mode Feedback Amp	10-MSOP	4.05	3.08	2.35
EL5251IS	EL5251IS-ND	200MHz Volt. Mode Feedback Amp	8-SOIC	4.05	3.08	2.35
EL5251IY	EL5251IY-ND	200MHz Volt. Mode Feedback Amp	8-MSOP	4.05	3.08	2.35
EL5252IY	EL5252IY-ND	300MHz Volt. Mode Feedback Amp	10-MSOP	4.05	3.08	2.35
EL5257IS	EL5257IS-ND	600MHz Volt. Mode Feedback Amp	8-SOIC	5.18	3.94	3.01
EL5257IY	EL5257IY-ND	600MHz Volt. Mode Feedback Amp	8-MSOP	5.18	3.94	3.01
EL5260IYZ	EL5260IYZ-ND	200MHz LP Current Feedback Amp*	10-MSOP	3.20	2.44	1.86
EL5261ISZ	EL5261ISZ-ND	200MHz LP Current Feedback Amp*	8-SOIC	3.20	2.44	1.86
EL5262IYZ	EL5262IYZ-ND	500MHz LP Current Feedback Amp*	10-MSOP	3.20	2.44	1.86
EL5263ISZ	EL5263ISZ-ND	500MHz LP Current Feedback Amp*	8-SOIC	4.00	3.04	2.32
EL5300IU	EL5300IU-ND	200MHz Slew Enhanced VFA	16-QSOP	4.63	3.52	2.69
EL5300IU-T7	EL5300IU-T7CT-ND	200MHz Slew Enhanced VFA	16-QSOP	4.83	3.67	2.80
EL5300IU-T7	EL5300IU-T7TR-ND	200MHz Slew Enhanced VFA	16-QSOP	2432.00/1,000		
EL5304IU	EL5304IU-ND	700MHz Slew Enhanced VFA	16-QSOP	5.84	4.62	3.70
EL5306IUZ	EL5306IUZ-ND	350MHz Fixed Gain Amp*	16-QSOP	4.05	3.21	2.57
EL5327CRZ	EL5327CRZ-ND	2.5MHz, 10-Channel R/R Buffer*	24-TSSOP	3.85	2.93	2.24
EL5360IS	EL5360IS-ND	200MHz LP Current Feedback Amp	16-SOIC	3.75	2.85	2.18
EL5360ISZ	EL5360ISZ-ND	200MHz LP Current Feedback Amp*	16-SOIC	3.75	2.85	2.18
EL5360IU	EL5360IU-ND	200MHz LP Current Feedback Amp	16-QSOP	3.75	2.85	2.18
EL5362IS	EL5362IS-ND	400MHz LP Current Feedback Amp	16-SOIC	5.13	3.90	2.98
EL5362IU	EL5362IU-ND	400MHz LP Current Feedback Amp	16-QSOP	5.13	3.90	2.98
EL5364IS	EL5364IS-ND	600MHz Current Feedback Amp	16-SOIC	4.43	3.37	2.57
EL5364ISZ	EL5364ISZ-ND	600MHz Current Feedback Amp*	16-SOIC	4.43	3.37	2.57
EL5364IU	EL5364IU-ND	600MHz Current Feedback Amp	16-QSOP	4.43	3.37	2.57
EL5364IUZ	EL5364IUZ-ND	600MHz Current Feedback Amp* **NEW!**	16-QSOP	4.43	3.37	2.57
EL5364IUZ-T7	EL5364IUZ-T7CT-ND	600MHz Current Feedback Amp* **NEW!**	16-QSOP	4.60	3.50	2.67
EL5364IUZ-T7	EL5364IUZ-T7TR-ND	600MHz Current Feedback Amp* **NEW!**	16-QSOP	2318.00/1,000		
EL5370IU	EL5370IU-ND	100MHz Diff. Twisted-Pair Driver	24-QSOP	4.70	3.58	2.73
EL5371IU	EL5371IU-ND	250MHz Diff. Twisted-Pair Driver	28-QSOP	4.70	3.58	2.73
EL5372IU	EL5372IU-ND	250MHz Diff. Line Receiver	24-QSOP	4.70	3.58	2.73
EL5373IU	EL5373IU-ND	450MHz Diff. Twisted-Pair Driver	24-QSOP	5.78	4.39	3.35
EL5374IU	EL5374IU-ND	550MHz Diff. Twisted-Pair Driver	28-QSOP	5.78	4.39	3.35
EL5375IU	EL5375IU-ND	550MHz Triple Diff. Line Receiver	24-QSOP	5.78	4.39	3.35
EL5410CR	EL5410CR-ND	30MHz R/R Input/Output Op Amp	14-TSSOP	4.18	3.18	2.43
EL5410CS	EL5410CS-ND	30MHz R/R Input/Output Op Amp	14-SOIC	4.18	3.18	2.43
EL5411IRE	EL5411IRE-ND	60MHz R/R Input/Output Op Amp	14-HTSSOP	3.55	2.70	2.06
EL5444CS	EL5444CS-ND	100MHz Single Supply, R/R Amp	14-SOIC	4.35	3.31	2.53
EL5444CU	EL5444CU-ND	100MHz Single Supply, R/R Amp	16-QSOP	4.35	3.31	2.53
EL5451IS	EL5451IS-ND	200MHz Amp	14-SOIC	5.54	4.39	3.52
EL5455IS	EL5455IS-ND	300MHz Volt. Mode Feedback Amp	14-SOIC	6.15	4.87	3.90
EL5462ISZ	EL5462ISZ-ND	500MHz LP Current Feedback Amp*	14-SOIC	2.98	2.27	1.73
EL5724IREZ	EL5724IREZ-ND	Integrated Buffer with VCOM*	24-HTSSOP	5.40	4.11	3.14
EL8100IS	EL8100IS-ND	200MHz Rail-to-Rail Amp	8-SOIC	2.54	1.89	1.40
EL8100ISZ	EL8100ISZ-ND	200MHz Rail-to-Rail Amp*	8-SOIC	2.54	1.89	1.40
EL8100IW-T7	EL8100IW-T7CT-ND	200MHz Rail-to-Rail Amp	SOT-23-6	2.54	1.89	1.40
EL8100IWZ-T7A	EL8100IWZ-T7ACT-ND	200MHz Rail-to-Rail Amp*	SOT-23-6	2.05	1.56	1.44
EL8100IWZ-T7A	EL8100IWZ-T7ATR-ND	200MHz Rail-to-Rail Amp*	SOT-23-6	272.75/250		
EL8101IW-T7	EL8101IW-T7CT-ND	200MHz Rail-to-Rail Amp	SOT-23-5	2.79	2.07	1.53
EL8101IW-T7	EL8101IW-T7TR-ND	200MHz Rail-to-Rail Amp	SOT-23-5	3375.00/3,000		
EL8101IWZ-T7A	EL8101IWZ-T7ACT-ND	200MHz Rail-to-Rail Amp*	SOT-23-5	2.25	1.71	1.58
EL8101IWZ-T7A	EL8101IWZ-T7ATR-ND	200MHz Rail-to-Rail Amp*	SOT-23-5	299.25/250		
EL8102IS	EL8102IS-ND	500MHz Rail-to-Rail Amp	8-SOIC	3.13	2.38	1.82
EL8102ISZ	EL8102ISZ-ND	500MHz Rail-to-Rail Amp*	8-SOIC	3.13	2.38	1.82
EL8102IW-T7	EL8102IW-T7CT-ND	500MHz Rail-to-Rail Amp	SOT-23-6	3.13	2.38	1.82
EL8102IW-T7	EL8102IW-T7TR-ND	500MHz Rail-to-Rail Amp	SOT-23-6	4689.00/3,000		
EL8103IW-T7	EL8103IW-T7CT-ND	500MHz Rail-to-Rail Amp	SOT-23-5	3.13	2.38	1.82
EL8103IW-T7	EL8103IW-T7TR-ND	500MHz Rail-to-Rail Amp	SOT-23-5	4689.00/3,000		
EL8103IWZ-T7A	EL8103IWZ-T7ACT-ND	500MHz Rail-to-Rail Amp*	SOT-23-5	4.20	3.20	2.94
EL8103IWZ-T7A	EL8103IWZ-T7ATR-ND	500MHz Rail-to-Rail Amp*	SOT-23-5	558.50/250		
EL8176AIWZ-T7A	EL8176AIWZ-T7ACT-ND	Micropower Single Supply R/R In/Out Precision Op Amp*	SOT-23-6	3.20	2.44	2.24
EL8176AIWZ-T7A	EL8176AIWZ-T7ATR-ND	Micropower Single Supply R/R In/Out Precision Op Amp*	SOT-23-6	425.50/250		
EL8178AIWZ-T7A	EL8178AIWZ-T7ACT-ND	Micropower Single Supply R/R In/Out Precision Op Amp*	SOT-23-6	4.38	3.33	3.07
EL8178AIWZ-T7A	EL8178AIWZ-T7ATR-ND	Micropower Single Supply R/R In/Out Precision Op Amp*	SOT-23-6	458.75/250		
EL8186IWZ-T7A	EL8186IWZ-T7ACT-ND	Micropower Single Supply R/R In/Out Op Amp*	SOT-23-6	1.83	1.36	1.04
EL8186IWZ-T7A	EL8186IWZ-T7ATR-ND	Micropower Single Supply R/R In/Out Op Amp*	SOT-23-6	199.25/250		
EL8200IY	EL8200IY-ND	200MHz Rail-to-Rail Amp	10-MSOP	2.95	2.25	1.72
EL8201IS	EL8201IS-ND	200MHz Rail-to-Rail Amp	8-SOIC	2.95	2.25	1.72
EL8201ISZ	EL8201ISZ-ND	200MHz Rail-to-Rail Amp*	8-SOIC	2.95	2.25	1.72
EL8202IY	EL8202IY-ND	500MHz Rail-to-Rail Amp	10-MSOP	5.88	4.47	3.41
EL8203IS	EL8203IS-ND	500MHz Rail-to-Rail Amp	8-SOIC	5.88	4.47	3.41
EL8300IS	EL8300IS-ND	200MHz Rail-to-Rail Amp	16-SOIC	3.90	2.97	2.27
EL8300IU	EL8300IU-ND	200MHz Rail-to-Rail Amp	16-QSOP	3.90	2.97	2.27
EL8302IS	EL8302IS-ND	500MHz Rail-to-Rail Amp	16-SOIC	6.59	5.22	4.18
EL8302IU	EL8302IU-ND	500MHz Rail-to-Rail Amp	16-QSOP	6.59	5.22	4.18
EL8302IUZ-T7	EL8302IUZ-T7CT-ND	500MHz Rail-to-Rail Amp* **NEW!**	16-QSOP	6.74	5.33	4.27
EL8302IUZ-T7	EL8302IUZ-T7TR-ND	500MHz Rail-to-Rail Amp* **NEW!**	16-QSOP	3980.00/1,000		
EL8401IS	EL8401IS-ND	200MHz Rail-to-Rail Amp	14-SOIC	8.23	6.51	5.22
EL8401ISZ-T7	EL8401ISZ-T7CT-ND	200MHz Rail-to-Rail Amp* **NEW!**	14-SOIC	8.40	6.64	5.32
EL8401ISZ-T7	EL8401ISZ-T7TR-ND	200MHz Rail-to-Rail Amp* **NEW!**	14-SOIC	4960.00/1,000		
EL8401IU	EL8401IU-ND	200MHz Rail-to-Rail Amp	16-QSOP	8.23	6.51	5.22
EL8401IUZ-T7	EL8401IUZ-T7CT-ND	200MHz Rail-to-Rail Amp* **NEW!**	16-QSOP	8.40	6.64	5.32
EL8401IUZ-T7	EL8401IUZ-T7TR-ND	200MHz Rail-to-Rail Amp* **NEW!**	16-QSOP	4960.00/1,000		
EL8403IS	EL8403IS-ND	500MHz Rail-to-Rail Amp	14-SOIC	8.23	6.51	5.22
EL8403ISZ-T7	EL8403ISZ-T7CT-ND	500MHz Rail-to-Rail Amp* **NEW!**	14-SOIC	8.40	6.64	5.32
EL8403ISZ-T7	EL8403ISZ-T7TR-ND	500MHz Rail-to-Rail Amp* **NEW!**	14-SOIC	4960.00/1,000		
EL8403IU	EL8403IU-ND	500MHz Rail-to-Rail Amp	16-QSOP	8.23	6.51	5.22
EL8403IUZ-T7	EL8403IUZ-T7CT-ND	500MHz Rail-to-Rail Amp* **NEW!**	16-QSOP	8.40	6.64	5.32

* ***RoHS Compliant***

(Continued)

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AMPLIFIERS *(Continued)*

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
EL8403IUZ-T7	EL8403IUZ-T7TR-ND	500MHz Rail-to-Rail Amp* ***NEW!***	16-QSOP	4960.00/1,000		
HA3-2525-5Z	HA3-2525-5Z-ND	20MHz High Slew Rate, Uncompensated, High Input Impedance Op Amp*	8-PDip	5.00	3.80	2.90
HA4600CBZ	HA4600CBZ-ND	480MHz, Video Buffer*	8-SOIC	1.92	1.43	1.06
HA9P5020-5Z	HA9P5020-5Z-ND	100MHz Current Feedback Video Amp*	8-SOIC	2.50	1.90	1.45
HFA1100IBZ	HFA1100IBZ-ND	850MHz Low Distortion Current Feedback Op Amp*	8-SOIC	3.50	2.66	2.03
HFA1130IBZ	HFA1130IBZ-ND	850MHz Output Limiting, Low Distortion Current Feedback Op Amp*	8-SOIC	4.38	3.33	2.54
ICL7611DCPAZ	ICL7611DCPAZ-ND	1.4MHz, Low Power CMOS Op Amp*	8-Dip	1.35	.99	.72
ISL59424IRZ	ISL59424IRZ-ND	1GHz Triple Mux Amp*	24-QFN	11.55	8.47	6.16

** RoHS Compliant*

CPU SUPERVISORS

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X4043P	X4043P-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-Dip	5.03	3.51	3.05
X4043PI	X4043PI-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-Dip	5.20	3.63	3.15
X4043S8	X4043S8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	4.06	2.84	2.46
X4043S8I	X4043S8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	4.21	2.94	2.55
X4043M8	X4043M8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	5.03	3.51	3.05
X4043M8I	X4043M8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	5.20	3.63	3.15
X4043S8-4.5A	X4043S8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	4.06	2.84	2.46
X4043S8I-4.5A	X4043S8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	4.21	2.94	2.55
X4043M8-4.5A	X4043M8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	5.03	3.51	3.05
X4043M8I-4.5A	X4043M8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	5.20	3.63	3.15
X4043S8-2.7A	X4043S8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	4.06	2.84	2.46
X4043S8I-2.7A	X4043S8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	4.21	2.94	2.55
X4043M8-2.7A	X4043M8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	5.03	3.51	3.05
X4043M8I-2.7A	X4043M8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-MSOP	5.20	3.63	3.15
X4043P-2.7	X4043P-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-Dip	5.03	3.51	3.05
X4043PI-2.7	X4043PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-Dip	5.20	3.63	3.15
X4043S8-2.7	X4043S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	4.06	2.84	2.46
X4043S8I-2.7	X4043S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset Low	8-SOIC	4.21	2.94	2.55
X4045P	X4045P-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-Dip	5.03	3.51	3.05
X4045PI	X4045PI-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-Dip	5.20	3.63	3.15
X4045S8	X4045S8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	4.06	2.84	2.46
X4045S8I	X4045S8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	4.21	2.94	2.55
X4045M8	X4045M8-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	5.03	3.51	3.05
X4045M8I	X4045M8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	5.20	3.63	3.15
X4045S8-4.5A	X4045S8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	4.06	2.84	2.46
X4045S8I-4.5A	X4045S8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	4.21	2.94	2.55
X4045M8I-4.5A	X4045M8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	5.20	3.63	3.15
X4045S8-2.7A	X4045S8-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	4.06	2.84	2.46
X4045S8I-2.7A	X4045S8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	4.21	2.94	2.55
X4045M8I-2.7A	X4045M8I-2.7A-ND	2.85-3.0V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	5.20	3.63	3.15
X4045P-2.7	X4045P-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-Dip	5.03	3.51	3.05
X4045PI-2.7	X4045PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-Dip	5.20	3.63	3.15
X4045S8-2.7	X4045S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	4.06	2.84	2.46
X4045S8I-2.7	X4045S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-SOIC	4.21	2.94	2.55
X4045M8-2.7	X4045M8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	5.03	3.51	3.05
X4045M8I-2.7	X4045M8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K I^{2}C EE, Reset High	8-MSOP	5.20	3.63	3.15
X4163S8	X4163S8-ND	4.25-4.5V CPU Supervisor with WDT, 16K I^{2}C EE, Reset Low	8-SOIC	3.93	2.75	2.38
X4163S8I	X4163S8I-ND	4.25-4.5V CPU Supervisor with WDT, 16K I^{2}C EE, Reset Low	8-SOIC	5.03	3.82	2.92
X4165S8	X4165S8-ND	4.25-4.5V CPU Supervisor with WDT, 16K I^{2}C EE, Reset High	8-SOIC	3.93	2.75	2.38
X4165S8I	X4165S8I-ND	4.25-4.5V CPU Supervisor with WDT, 16K I^{2}C EE, Reset High	8-SOIC	4.32	3.02	2.62
X4283S8	X4283S8-ND	4.25-4.5V CPU Supervisor with WDT, 128K I^{2}C EE, Reset Low	8-SOIC	5.74	4.01	3.48
X4283S8I	X4283S8I-ND	4.25-4.5V CPU Supervisor with WDT, 128K I^{2}C EE, Reset Low	8-SOIC	6.13	4.28	3.71
X4283V8	X4283V8-ND	4.25-4.5V CPU Supervisor with WDT, 128K I^{2}C EE, Reset Low	8-TSSOP	6.32	4.41	3.83
X4283V8I	X4283V8I-ND	4.25-4.5V CPU Supervisor with WDT, 128K I^{2}C EE, Reset Low	8-TSSOP	6.77	4.73	4.10
X4283S8-2.7	X4283S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 128K I^{2}C EE, Reset Low	8-SOIC	5.74	4.01	3.48
X4283S8I-2.7	X4283S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 128K I^{2}C EE, Reset Low	8-SOIC	6.13	4.28	3.71
X4285S8	X4285S8-ND	4.25-4.5V CPU Supervisor with WDT, 128K I^{2}C EE, Reset High	8-SOIC	5.74	4.01	3.48
X4285S8I	X4285S8I-ND	4.25-4.5V CPU Supervisor with WDT, 128K I^{2}C EE, Reset High	8-SOIC	6.13	4.28	3.71
X4285V8	X4285V8-ND	4.25-4.5V CPU Supervisor with WDT, 128K I^{2}C EE, Reset High	8-TSSOP	6.32	4.41	3.83
X4285V8I	X4285V8I-ND	4.25-4.5V CPU Supervisor with WDT, 128K I^{2}C EE, Reset High	8-TSSOP	6.77	4.73	4.10
X4285S8-2.7	X4285S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 128K I^{2}C EE, Reset High	8-SOIC	5.74	4.01	3.48
X4285S8I-2.7	X4285S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 128K I^{2}C EE, Reset High	8-SOIC	6.13	4.28	3.71
X4285V8-2.7	X4285V8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 128K I^{2}C EE, Reset High	8-TSSOP	6.32	4.41	3.83
X4285V8I-2.7	X4285V8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 128K I^{2}C EE, Reset High	8-TSSOP	6.77	4.73	4.10
X4323S8	X4323S8-ND	4.25-4.5V CPU Supervisor with WDT, 32K I^{2}C EE, Reset Low	8-SOIC	4.54	3.17	2.75
X4323S8I	X4323S8I-ND	4.25-4.5V CPU Supervisor with WDT, 32K I^{2}C EE, Reset Low	8-SOIC	4.92	3.44	2.98
X4323S8-2.7	X4323S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 32K I^{2}C EE, Reset Low	8-SOIC	4.54	3.17	2.75
X4323S8I-2.7	X4323S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 32K I^{2}C EE, Reset Low	8-SOIC	4.92	3.44	2.98
X4643S8	X4643S8-ND	4.25-4.5V CPU Supervisor with WDT, 64K I^{2}C EE, Reset Low	8-SOIC	5.14	3.59	3.11
X4643S8I	X4643S8I-ND	4.25-4.5V CPU Supervisor with WDT, 64K I^{2}C EE, Reset Low	8-SOIC	5.53	3.86	3.35
X4643S8-2.7	X4643S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K I^{2}C EE, Reset Low	8-SOIC	5.14	3.59	3.11
X4643S8I-2.7	X4643S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K I^{2}C EE, Reset Low	8-SOIC	5.53	3.86	3.35
X4645S8	X4645S8-ND	4.25-4.5V CPU Supervisor with WDT, 64K I^{2}C EE, Reset High	8-SOIC	5.14	3.59	3.11
X4645S8I	X4645S8I-ND	4.25-4.5V CPU Supervisor with WDT, 64K I^{2}C EE, Reset High	8-SOIC	5.53	3.86	3.35
X4645S8-2.7	X4645S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K I^{2}C EE, Reset High	8-SOIC	5.14	3.59	3.11
X4645S8I-2.7	X4645S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K I^{2}C EE, Reset High	8-SOIC	5.53	3.86	3.35
X5001S8	X5001S8-ND	4.25-4.5V CPU Supervisor with WDT, Reset Low	8-SOIC	3.18	2.22	1.93
X5001S8I	X5001S8I-ND	4.25-4.5V CPU Supervisor with WDT, Reset Low	8-SOIC	3.44	2.40	2.08
X5001S8-2.7	X5001S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, Reset Low	8-SOIC	3.18	2.22	1.93
X5043P	X5043P-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-Dip	4.06	2.84	2.46
X5043PI	X5043PI-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-Dip	4.21	2.94	2.55
X5043S8	X5043S8-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	4.06	2.84	2.46
X5043S8I	X5043S8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	4.21	2.94	2.55
X5043M8	X5043M8-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	5.03	3.51	3.05
X5043M8I	X5043M8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	5.20	3.63	3.15
X5043S8-4.5A	X5043S8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	4.06	2.84	2.46
X5043S8I-4.5A	X5043S8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	4.21	2.94	2.55
X5043M8-4.5A	X5043M8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	5.03	3.51	3.05
X5043M8I-4.5A	X5043M8I-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	5.20	3.63	3.15
X5043S8-2.7A	X5043S8-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	4.06	2.84	2.46
X5043S8I-2.7A	X5043S8I-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	4.21	2.94	2.55
X5043M8-2.7A	X5043M8-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	5.03	3.51	3.05
X5043M8I-2.7A	X5043M8I-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	5.20	3.63	3.15
X5043P-2.7	X5043P-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-Dip	4.06	2.84	2.46
X5043PI-2.7	X5043PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-Dip	4.21	2.94	2.55
X5043S8-2.7	X5043S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	4.06	2.84	2.46
X5043S8I-2.7	X5043S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-SOIC	4.21	2.94	2.55
X5043M8-2.7	X5043M8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	5.03	3.51	3.05
X5043M8I-2.7	X5043M8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	8-MSOP	5.20	3.63	3.15
X5043V14I-2.7	X5043V14I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset Low	14-TSSOP	5.20	3.63	3.15
X5045P	X5045P-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	4.06	2.84	2.46
X5045PI	X5045PI-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	4.21	2.94	2.55
X5045S8	X5045S8-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	4.06	2.84	2.46
X5045S8I	X5045S8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	4.21	2.94	2.55
X5045M8	X5045M8-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-MSOP	5.03	3.51	3.05
X5045M8I	X5045M8I-ND	4.25-4.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-MSOP	5.20	3.63	3.15

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intersil CPU SUPERVISORS *(Continued)*

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X5045PI-4.5A	X5045PI-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	4.21	2.94	2.55
X5045S8-4.5A	X5045S8-4.5A-ND	4.5-4.75V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	4.06	2.84	2.46
X5045PI-2.7A	X5045PI-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	4.21	2.94	2.55
X5045S8-2.7A	X5045S8-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	4.06	2.84	2.46
X5045S8I-2.7A	X5045S8I-2.7A-ND	2.7-5.5V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	4.21	2.94	2.55
X5045P-2.7	X5045P-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	4.06	2.84	2.46
X5045PI-2.7	X5045PI-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-Dip	4.21	2.94	2.55
X5045S8-2.7	X5045S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	4.06	2.84	2.46
X5045S8I-2.7	X5045S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-SOIC	4.21	2.94	2.55
X5045M8-2.7	X5045M8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-MSOP	5.03	3.51	3.05
X5045M8I-2.7	X5045M8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 4K SPI EE, Reset High	8-MSOP	5.20	3.63	3.15
X5083P	X5083P-ND	4.25-4.5V CPU Supervisor with WDT, 8K SPI EE, Reset Low	8-Dip	4.24	2.96	2.57
X5083S8	X5083S8-ND	4.25-4.5V CPU Supervisor with WDT, 8K SPI EE, Reset Low	8-SOIC	4.24	2.96	2.57
X5083S8I	X5083S8I-ND	4.25-4.5V CPU Supervisor with WDT, 8K SPI EE, Reset Low	8-SOIC	4.36	3.05	2.64
X5083S8-2.7	X5083S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 8K SPI EE, Reset Low	8-SOIC	4.24	2.96	2.57
X5083S8I-2.7	X5083S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 8K SPI EE, Reset Low	8-SOIC	4.36	3.05	2.64
X5163P	X5163P-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset Low	8-Dip	4.39	3.06	2.66
X5163S8	X5163S8-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset Low	8-SOIC	4.39	3.06	2.66
X5163S8I	X5163S8I-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset Low	8-SOIC	4.58	3.20	2.77
X5163S8-2.7	X5163S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 16K SPI EE, Reset Low	8-SOIC	4.39	3.06	2.66
X5163S8I-2.7	X5163S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 16K SPI EE, Reset Low	8-SOIC	4.90	3.42	2.97
X5165P	X5165P-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset High	8-Dip	4.39	3.06	2.66
X5165S8	X5165S8-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset High	8-SOIC	4.39	3.06	2.66
X5165S8I	X5165S8I-ND	4.25-4.5V CPU Supervisor with WDT, 16K SPI EE, Reset High	8-SOIC	4.58	3.20	2.77
X5165S8-2.7	X5165S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 16K SPI EE, Reset High	8-SOIC	4.39	3.06	2.66
X5165S8I-2.7	X5165S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 16K SPI EE, Reset High	8-SOIC	4.90	3.42	2.97
X5325P	X5325P-ND	4.25-4.5V CPU Supervisor with WDT, 32K SPI EE, Reset High	8-Dip	4.73	3.30	2.86
X5325PI	X5325PI-ND	4.25-4.5V CPU Supervisor with WDT, 32K SPI EE, Reset High	8-Dip	5.46	3.81	3.31
X5325S8	X5325S8-ND	4.25-4.5V CPU Supervisor with WDT, 32K SPI EE, Reset High	8-SOIC	4.73	3.30	2.86
X5325S8-2.7	X5325S8-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 32K SPI EE, Reset High	8-SOIC	4.73	3.30	2.86
X5325S8I-2.7	X5325S8I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 32K SPI EE, Reset High	8-SOIC	7.35	5.13	4.45
X5643P	X5643P-ND	4.25-4.5V CPU Supervisor with WDT, 64K SPI EE, Reset Low	8-Dip	5.27	3.68	3.19
X5643S14	X5643S14-ND	4.25-4.5V CPU Supervisor with WDT, 64K SPI EE, Reset Low	14-SOIC	5.27	3.68	3.19
X5643S14I	X5643S14I-ND	4.25-4.5V CPU Supervisor with WDT, 64K SPI EE, Reset Low	14-SOIC	5.42	3.78	3.28
X5643S14-2.7	X5643S14-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K SPI EE, Reset Low	14-SOIC	5.27	3.68	3.19
X5643S14I-2.7	X5643S14I-2.7-ND	2.55-2.7V CPU Supervisor with WDT, 64K SPI EE, Reset Low	14-SOIC	9.80	6.84	5.93
X5645P	X5645P-ND	4.25-4.5V CPU Supervisor with WDT, 64K SPI EE, Reset High	8-Dip	5.27	3.68	3.19
X5645S14	X5645S14-ND	4.25-4.5V CPU Supervisor with WDT, 64K SPI EE, Reset High	14-SOIC	5.27	3.68	3.19

intersil CLOCKS, TIMERS

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CDP68HC68T1E	CDP68HC68T1E-ND	CMOS Serial Real-Time Clock	16-Dip	7.50	5.93	4.75
CDP68HC68T1EZ	CDP68HC68T1EZ-ND	CMOS Serial Real-Time Clock*	16-Dip	7.50	5.93	4.75
CDP68HC68T1M	CDP68HC68T1M-ND	CMOS Serial Real-Time Clock	20-SOIC	5.86	4.64	3.72
CDP68HC68T1M2	CDP68HC68T1M2-ND	CMOS Serial Real-Time Clock	16-SOIC	7.50	5.93	4.75
CP82C54	CP82C54-ND	8MHz, CMOS Prog. Interval Timer	24-PDip	5.75	4.37	3.34
CP82C54Z	CP82C54Z-ND	8MHz, CMOS Prog. Interval Timer*	24-PDip	5.75	4.37	3.34
CP82C54-10	CP82C54-10-ND	10MHz, CMOS Prog. Interval Timer	24-Dip	5.88	4.65	3.73
CP82C54-12Z	CP82C54-12Z-ND	12MHz, CMOS Prog. Interval Timer*	24-Dip	8.99	7.11	5.70
CP82C55A	CP82C55A-ND	8MHz, CMOS Prog. Peripheral Interface	40-Dip	5.33	4.05	3.09
CP82C55AZ	CP82C55AZ-ND	8MHz, CMOS Prog. Peripheral Interface*	40-PDip	5.33	4.05	3.09
CS82C54	CS82C54-ND	8MHz, CMOS Prog. Interval Timer	28-PLCC	5.46	4.32	3.46
CS82C54Z	CS82C54Z-ND	8MHz, CMOS Prog. Interval Timer*	28-PLCC	5.46	4.32	3.46
CS82C54-10	CS82C54-10-ND	10MHz, CMOS Prog. Interval Timer	28-PLCC	6.51	5.15	4.13
CS82C55A	CS82C55A-ND	8MHz, CMOS Prog. Peripheral Interface	44-PLCC	5.38	4.25	3.41
CQ82C55AZ	CQ82C55AZ-ND	8MHz, CMOS Prog. Peripheral Interface*	44-MQFP	5.78	4.57	3.66
CS82C59A	CS82C59A-ND	8MHz, CMOS Priority Interrupt Controller	28-PLCC	5.59	4.42	3.54
CS82C59AZ	CS82C59AZ-ND	8MHz, CMOS Priority Interrupt Controller*	28-PLCC	5.59	4.42	3.54
ICM7555CBAZ	ICM7555CBAZ-ND	General Purpose Timer*	8-SOIC	.72	.52	.38
ICM7555IPAZ	ICM7555IPAZ-ND	General Purpose Timer*	8-Dip	.81	.59	.43
ICM7556IPDZ	ICM7556IPDZ-ND	General Purpose Timer*	14-Dip	1.31	.97	.70

intersil DATA CONVERSION

Analog-Digital

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADC0804LCN	ADC0804LCNIS-ND	8-Bit Microprocessor-Compatible ADC	20-Dip	3.00	2.28	1.74
HI3-574AJN-5Z	HI3-574AJN-5Z-ND	Complete 12-Bit ADC*	28-PDip	18.27	17.06	15.84
HI3-574AKN-5Z	HI3-574AKN-5Z-ND	Complete 12-Bit ADC*	28-PDip	16.63	14.25	12.64
HI1175JCB	HI1175JCB-ND	8-Bit, 20MSPS, Flash ADC	24-SOIC	7.35	5.81	4.66
HI5714/4CB	HI5714/4CB-ND	8-Bit, 40MSPS ADC	24-SOIC	9.45	7.47	5.99
HI5714/4CBZ	HI5714/4CBZ-ND	8-Bit, 40MSPS ADC*	24-SOIC	9.45	7.47	5.99
HI5746KCA	HI5746KCA-ND	10-Bit, 40MSPS ADC	28-SSOP	15.11	14.10	13.10
HI5766KCA	HI5766KCA-ND	10-Bit, 60MSPS ADC	28-SSOP	20.63	19.25	17.88
HI5767/2CA	HI5767/2CA-ND	10-Bit, 20MSPS ADC with Internal Voltage Reference	28-SSOP	7.98	6.31	5.06
HI5767/4CA	HI5767/4CA-ND	10-Bit, 40MSPS ADC with Internal Voltage Reference	28-SSOP	13.28	11.39	10.10
HI5812JIPZ	HI5812JIPZ-ND	12-Bit, CMOS 20 Microsecond, Sampling ADC*	24-Dip	10.04	7.94	6.36
ICL7106CM44Z	ICL7106CM44Z-ND	3.5 Digit LCD Display ADC*	44-MQFP	5.50	4.35	3.49
ICL7106CPL	ICL7106CPLIS-ND	3.5 Digit LCD Display ADC	40-Dip	4.50	3.42	2.61
ICL7106CPLZ	ICL7106CPLZ-ND	3.5 Digit LCD Display ADC*	40-Dip	3.15	2.40	1.83
ICL7107CM44	ICL7107CM44-ND	3.5 Digit LED Display ADC	44-MQFP	4.25	3.23	2.47
ICL7107CM44Z	ICL7107CM44Z-ND	3.5 Digit LED Display ADC*	44-MQFP	4.25	3.23	2.47
ICL7107CPL	ICL7107CPLIS-ND	3.5 Digit LED Display ADC	40-Dip	4.75	3.61	2.76
ICL7107CPLZ	ICL7107CPLZ-ND	3.5 Digit LED Display ADC*	40-Dip	3.33	2.53	1.93
ICL7107RCPLZ	ICL7107RCPLZ-ND	3.5 Digit LED Display ADC*	40-Dip	5.63	4.45	3.57
ICL7107SCPL	ICL7107SCPL-ND	3.5 Digit LED Display ADC	40-Dip	5.80	4.59	3.68
ICL7107SCPLZ	ICL7107SCPLZ-ND	3.5 Digit LED Display ADC*	40-Dip	5.80	4.59	3.68
ICL7126CPLZ	ICL7126CPLZ-ND	3.5 Digit, Low Power, Single Chip ADC*	40-Dip	5.50	4.18	3.19
ICL7135CPIZ	ICL7135CPIZ-ND	4.5 Digit BCD Output ADC*	28-Dip	3.88	2.95	2.25
ICL7136CM44	ICL7136CM44-ND	3.5 Digit LCD Low Power Display ADC	44-MQFP	5.35	4.07	3.11
ICL7136CPL	ICL7136CPLIS-ND	3.5 Digit LCD Low Power Display ADC	44-Dip	5.54	4.39	3.52
ICL7136CPLZ	ICL7136CPLZ-ND	3.5 Digit LCD Low Power Display ADC*	40-Dip	5.63	4.28	3.27

Digital-Analog

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
HI1171JCB	HI1171JCB-ND	8-Bit, 40MSPS High Speed DAC	24-SOIC	6.32	5.00	4.01
HI3338KIBZ	HI3338KIBZ-ND	8-Bit CMOS Rail-to-Rail DAC*	16-SOIC	8.40	6.64	5.32
HI5660/6IA	HI5660/6IA-ND	8-Bit, 60MSPS High Speed DAC	28-TSSOP	6.59	5.22	4.18
HI5660IB	HI5660IB-ND	8-Bit, 125MSPS High Speed DAC	28-SOIC	7.39	5.85	4.69
HI5731BIB	HI5731BIB-ND	12-Bit, 100MSPS High Speed DAC	28-SOIC	22.56	21.06	19.56
HI5731BIPZ	HI5731BIPZ-ND	12-Bit, 100MSPS High Speed DAC*	28-Dip	22.56	21.06	19.56
HI5735KCB	HI5735KCB-ND	12-Bit, 80MSPS High Speed Video DAC	28-SOIC	16.28	15.19	14.11
HI5741BIB	HI5741BIB-ND	14-Bit, 100MSPS High Speed DAC	28-SOIC	40.19	37.51	34.83
HI5760/6IB	HI5760/6IB-ND	10-Bit, 60MSPS High Speed DAC	28-SOIC	7.39	5.85	4.69
HI5760BIB	HI5760BIB-ND	10-Bit, 125MSPS High Speed DAC	28-SOIC	9.41	7.44	5.96
HI5960IB	HI5960IB-ND	14-Bit, 130MSPS High Speed DAC	28-SOIC	11.67	10.01	8.88
ISL5727IN	ISL5727IN-ND	Dual 10-Bit, +3.3V, 260+MSPS, High Speed, DAC	48-LQFP	22.46	20.96	19.47
ISL5761/2IB	ISL5761/2IB-ND	10-Bit, +3.3V, 210+MSPS, High Speed DAC	28-SOIC	9.81	7.76	6.22
ISL5861/2IA	ISL5861/2IA-ND	12-Bit, +3.3V, 210+MSPS, High Speed DAC	28-TSSOP	13.58	11.64	10.33
ISL5861IA	ISL5861IA-ND	12-Bit, +3.3V, 130+MSPS, High Speed DAC	28-TSSOP	11.67	10.01	8.88
ISL5927IN	ISL5927IN-ND	Dual 14-Bit, +3.3V, 260+MSPS, High Speed, DAC	48-LQFP	29.94	27.95	25.95
ISL5957IA	ISL5957IA-ND	14-Bit, +3.3V, 260+MSPS, High Speed DAC	28-TSSOP	19.95	18.62	17.29
ISL5961IA	ISL5961IA-ND	14-Bit, +3.3V, 130+MSPS, High Speed DAC	28-TSSOP	13.34	11.43	10.14

Voltage Inverters

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ICL7660CBA	ICL7660CBA-ND	1.5V-10V CMOS Voltage Converter	8-SOIC	2.17	1.61	1.19
ICL7660CBAZ	ICL7660CBAZ-ND	1.5V-10V CMOS Voltage Converter*	8-SOIC	2.17	1.61	1.19
ICL7660CPA	ICL7660CPA-ND	1.5V-10V CMOS Voltage Converter	8-Dip	2.08	1.55	1.14
ICL7660SCBA	ICL7660SCBA-ND	1.5V-12V CMOS Voltage Converter	8-SOIC	2.23	1.66	1.23
ICL7660SCPA	ICL7660SCPA-ND	1.5V-12V CMOS Voltage Converter	8-Dip	2.26	1.68	1.25
ICL7660SIBA	ICL7660SIBA-ND	1.5V-12V CMOS Voltage Converter	8-SOIC	2.64	1.96	1.45
ICL7660SIPAZ	ICL7660SIPAZ-ND	1.5V-12V CMOS Voltage Converter*	8-Dip	2.51	1.87	1.38
ICL7663SACBAZA	ICL7663SACBAZA-ND	CMOS Prog. Micropower Positive Voltage Regulator*	8-SOIC	3.38	2.57	1.96

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DCPs FOR LASER DIODE CONTROL OF FIBER OPTIC MODULES

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X9520V20I-A	X9520V20I-A-ND	Triple DCP for Laser Diode Control, 2K I^2C EE, POR, 3.3V System	20-TSSOP	9.03	6.30	5.46
X9520V20I-B	X9520V20I-B-ND	Triple DCP for Laser Diode Control, 2K I^2C EE, POR, 5V System	20-TSSOP	9.03	6.30	5.46
X9521V20I	X9521V20I-ND	Dual DCP for Laser Diode Control, 2K I^2C EE	20-TSSOP	8.32	6.33	4.84
X9522V20I-A	X9522V20I-A-ND	Triple DCP for Laser Diode Control, I^2C, 3.3V System	20-TSSOP	7.80	5.45	4.72
X9522V20I-B	X9522V20I-B-ND	Triple DCP for Laser Diode Control, I^2C, 5V System	20-TSSOP	7.80	5.45	4.72
X9523V20I-A	X9523V20I-A-ND	Dual DCP for Laser Diode Control, I^2C, POR, 3.3V System	20-TSSOP	7.29	5.09	4.41
X9523V20I-B	X9523V20I-B-ND	Dual DCP for Laser Diode Control, I^2C, POR, 5V System	20-TSSOP	7.29	5.09	4.41

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DIGITALLY CONTROLLED POTENTIOMETERS (XDCP™)

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X9C102P	X9C102P-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.16	2.21	1.92
X9C102S	X9C102S-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.16	2.21	1.92
X9C102SI	X9C102SI-ND	Single DCP, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.93	2.75	2.38
X9C103P	X9C103P-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.44	2.40	2.08
X9C103PI	X9C103PI-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	4.30	3.00	2.60
X9C103S	X9C103S-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.44	2.40	2.08
X9C103SI	X9C103SI-ND	Single DCP, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.30	3.00	2.60
X9C104P	X9C104P-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.44	2.40	2.08
X9C104PI	X9C104PI-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	4.30	3.00	2.60
X9C104S	X9C104S-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.44	2.40	2.08
X9C104SI	X9C104SI-ND	Single DCP, 100KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.30	3.00	2.60
X9C303P	X9C303P-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-Dip	3.16	2.21	1.92
X9C303PI	X9C303PI-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-Dip	3.93	2.75	2.38
X9C303S8	X9C303S8-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-SOIC	3.16	2.21	1.92
X9C303S8I	X9C303S8I-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-SOIC	3.93	2.75	2.38
X9C303V8	X9C303V8-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-TSSOP	3.70	2.58	2.24
X9C303V8I	X9C303V8I-ND	Single DCP, 32KΩ, 100 Tap, 3-Wire Up/Down, Log Taper	8-TSSOP	4.62	3.23	2.80
X9C503P	X9C503P-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.16	2.21	1.92
X9C503PI	X9C503PI-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.93	2.75	2.38
X9C503S	X9C503S-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.93	2.75	2.38
X9C503SI	X9C503SI-ND	Single DCP, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.93	2.75	2.38
X9015US8	X9015US8-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	.71	.50	.43
X9015US8I	X9015US8I-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	.88	.62	.54
X9015UM8	X9015UM8-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-MSOP	.82	.57	.50
X9015UM8I	X9015UM8I-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-MSOP	1.03	.72	.63
X9015US8-2.7	X9015US8-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down, Volatile	8-SOIC	.77	.54	.47
X9110TV14	X9110TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Dual Supply	14-TSSOP	5.83	4.07	3.53
X9110TV14I	X9110TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Dual Supply	14-TSSOP	7.29	5.09	4.41
X9111TV14	X9111TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Single Supply	14-TSSOP	5.83	4.07	3.53
X9111TV14I	X9111TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, SPI, Single Supply	14-TSSOP	7.29	5.09	4.41
X9116WS8	X9116WS8-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	1.42	.99	.86
X9116WS8I	X9116WS8I-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	1.76	1.23	1.07
X9116WM8	X9116WM8-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-MSOP	1.66	1.16	1.01
X9116WM8I	X9116WM8I-ND	Single DCP, 5V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-MSOP	2.09	1.46	1.27
X9116WS8-2.7	X9116WS8-2.7-ND	Single DCP, 2.7V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	1.55	1.08	.94
X9116WS8I-2.7	X9116WS8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 16 Tap, 3-Wire Up/Down	8-SOIC	1.94	1.35	1.17
X9118TV14	X9118TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^2C, Dual Supply	14-TSSOP	5.83	4.07	3.53
X9118TV14I	X9118TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^2C, Dual Supply	14-TSSOP	7.29	5.09	4.41
X9119TV14	X9119TV14-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	5.83	4.07	3.53
X9119TV14I	X9119TV14I-ND	Single DCP, 5V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	7.29	5.09	4.41
X9119TV14-2.7	X9119TV14-2.7-ND	Single DCP, 2.7V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	6.41	4.47	3.88
X9119TV14I-2.7	X9119TV14I-2.7-ND	Single DCP, 2.7V, 100KΩ, 1024 Tap, I^2C, Single Supply	14-TSSOP	8.02	5.60	4.85
X9221UPI	X9221UPI-ND	Dual DCP, 5V, 50KΩ, 64 Tap, I^2C	20-Dip	5.98	4.55	3.48
X9221WP	X9221WP-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^2C	20-Dip	4.77	3.63	2.78
X9241AUP	X9241AUP-ND	Quad DCP, 5V, 50KΩ, 64 Tap, I^2C	20-Dip	7.57	5.28	4.58
X9241AWS	X9241AWS-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C	20-SOIC	7.57	5.28	4.58
X9241AWVI	X9241AWVI-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C	20-TSSOP	11.16	7.79	6.75
X9241UVI	X9241UVI-ND	Quad DCP, 5V, 50KΩ, 64 Tap, I^2C	20-TSSOP	11.16	7.79	6.75
X9250TS24	X9250TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	10.62	7.41	6.43
X9250TS24I	X9250TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	13.29	9.27	8.04
X9250TS24-2.7	X9250TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	11.70	8.16	7.08
X9250TS24I-2.7	X9250TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	14.62	10.20	8.84
X9250US24I	X9250US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	13.29	9.27	8.04
X9250US24I-2.7	X9250US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	14.62	10.20	8.84
X9251TS24	X9251TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	10.62	7.41	6.43
X9251TS24I	X9251TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	13.29	9.27	8.04
X9251TS24-2.7	X9251TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	11.67	8.15	7.06
X9251TS24I-2.7	X9251TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	14.62	10.20	8.84
X9251US24	X9251US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	10.62	7.41	6.43
X9251US24I	X9251US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	13.29	9.27	8.04
X9251US24-2.7	X9251US24-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	11.67	8.15	7.06
X9251US24I-2.7	X9251US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	14.62	10.20	8.84
X9252TV24I-2.7	X9252TV24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, 2-Wire Up/Down	24-TSSOP	5.46	3.81	3.31
X9252UV24I-2.7	X9252UV24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, 2-Wire Up/Down	24-TSSOP	5.46	3.81	3.31
X9252WV24I-2.7	X9252WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 256 Tap, 2-Wire Up/Down	24-TSSOP	5.46	3.81	3.31
X9252YV24I-2.7	X9252YV24I-2.7-ND	Quad DCP, 2.7V, 2.8KΩ, 256 Tap, 2-Wire Up/Down	24-TSSOP	5.46	3.81	3.31
X9258TS24	X9258TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	9.74	6.80	5.89
X9258TS24I	X9258TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	12.19	8.51	7.38
X9258TS24-2.7	X9258TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	10.73	7.49	6.49
X9258TS24I-2.7	X9258TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	13.42	9.36	8.12
X9258US24	X9258US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	9.74	6.80	5.89
X9258US24I	X9258US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	12.19	8.51	7.38
X9258US24-2.7	X9258US24-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	10.73	7.49	6.49
X9258US24I-2.7	X9258US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	13.42	9.36	8.12
X9259TS24	X9259TS24-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^2C, Single Supply	24-SOIC	10.62	7.41	6.43
X9259TS24I	X9259TS24I-ND	Quad DCP, 5V, 100KΩ, 256 Tap, I^2C, Single Supply	24-SOIC	13.29	9.27	8.04
X9259TS24-2.7	X9259TS24-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, I^2C, Single Supply	24-SOIC	11.67	8.15	7.06
X9259TS24I-2.7	X9259TS24I-2.7-ND	Quad DCP, 2.7V, 100KΩ, 256 Tap, I^2C, Single Supply	24-SOIC	14.62	10.20	8.84
X9259US24	X9259US24-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^2C, Single Supply	24-SOIC	10.62	7.41	6.43
X9259US24I	X9259US24I-ND	Quad DCP, 5V, 50KΩ, 256 Tap, I^2C, Single Supply	24-SOIC	13.29	9.27	8.04
X9259US24-2.7	X9259US24-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^2C, Single Supply	24-SOIC	11.67	8.15	7.06
X9259US24I-2.7	X9259US24I-2.7-ND	Quad DCP, 2.7V, 50KΩ, 256 Tap, I^2C, Single Supply	24-SOIC	14.62	10.20	8.84
X9260TS24	X9260TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	7.31	5.10	4.42
X9260US24	X9260US24-ND	Dual DCP, 5V, 50KΩ, 256 Tap, SPI, Dual Supply	24-SOIC	7.31	5.10	4.42
X9261TS24	X9261TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, SPI, Single Supply	24-SOIC	7.31	5.10	4.42
X9261US24	X9261US24-ND	Dual DCP, 5V, 50KΩ, 256 Tap, SPI, Single Supply	24-SOIC	7.31	5.10	4.42
X9268TS24	X9268TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, I^2C, Dual Supply	24-SOIC	7.31	5.10	4.42
X9269TS24	X9269TS24-ND	Dual DCP, 5V, 100KΩ, 256 Tap, I^2C, Single Supply	24-SOIC	7.31	5.10	4.42

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Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
X9269US24	X9269US24-ND	Dual DCP, 5V, 50KΩ, 256 Tap, I^2C, Single Supply	24-SOIC	7.31	5.10	4.42
X9271TV14	X9271TV14-ND	Single DCP, 5V, 100KΩ, 256 Tap, SPI	14-TSSOP	5.85	4.08	3.54
X9271TV14-2.7	X9271TV14-2.7-ND	Single DCP, 2.7V, 100KΩ, 256 Tap, SPI	14-TSSOP	6.45	4.50	3.90
X9271UV14	X9271UV14-ND	Single DCP, 5V, 50KΩ, 256 Tap, SPI	14-TSSOP	5.85	4.08	3.54
X9271UV14-2.7	X9271UV14-2.7-ND	Single DCP, 2.7V, 50KΩ, 256 Tap, SPI	14-TSSOP	6.45	4.50	3.90
X9279TV14	X9279TV14-ND	Single DCP, 5V, 100KΩ, 256 Tap, I^2C	14-TSSOP	5.85	4.08	3.54
X9279TV14-2.7	X9279TV14-2.7-ND	Single DCP, 2.7V, 100KΩ, 256 Tap, I^2C	14-TSSOP	6.45	4.50	3.90
X9279UV14	X9279UV14-ND	Single DCP, 5V, 50KΩ, 256 Tap, I^2C	14-TSSOP	5.85	4.08	3.54
X9312WS	X9312WS-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	2.88	2.20	1.68
X9313US	X9313US-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.11	1.47	1.28
X9313USI	X9313USI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.62	1.83	1.59
X9313UMI	X9313UMI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.10	2.16	1.88
X9313WS	X9313WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.11	1.47	1.28
X9313WSI	X9313WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.62	1.83	1.59
X9313ZS	X9313ZS-ND	Single DCP, 5V, 1KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.11	1.47	1.28
X9313ZSI	X9313ZSI-ND	Single DCP, 5V, 1KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.62	1.83	1.59
X9314WS	X9314WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, Log Taper, 3-Wire Up/Down	8-SOIC	2.11	1.47	1.28
X9315TS	X9315TS-ND	Single DCP, 5V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.11	1.47	1.28
X9315TSI	X9315TSI-ND	Single DCP, 5V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.62	1.83	1.59
X9315TS-2.7	X9315TS-2.7-ND	Single DCP, 2.7V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.56	1.79	1.55
X9315TSI-2.7	X9315TSI-2.7-ND	Single DCP, 2.7V, 100KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.95	2.06	1.79
X9315US	X9315US-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.11	1.47	1.28
X9315USI	X9315USI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.62	1.83	1.59
X9315UMI	X9315UMI-ND	Single DCP, 5V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	2.82	1.97	1.71
X9315US-2.7	X9315US-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.56	1.79	1.55
X9315USI-2.7	X9315USI-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.95	2.06	1.79
X9315UM-2.7	X9315UM-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	2.71	1.89	1.64
X9315UMI-2.7	X9315UMI-2.7-ND	Single DCP, 2.7V, 50KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.10	2.16	1.88
X9315WP	X9315WP-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-Dip	2.11	1.47	1.28
X9315WPI	X9315WPI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-Dip	2.62	1.83	1.59
X9315WS	X9315WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.11	1.47	1.28
X9315WSI	X9315WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.62	1.83	1.59
X9315WM	X9315WM-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.10	2.16	1.88
X9315WMI	X9315WMI-ND	Single DCP, 5V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.10	2.16	1.88
X9315WS-2.7	X9315WS-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.32	1.62	1.41
X9315WSI-2.7	X9315WSI-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-SOIC	2.88	2.01	1.75
X9315WM-2.7	X9315WM-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	2.71	1.89	1.64
X9315WMI-2.7	X9315WMI-2.7-ND	Single DCP, 2.7V, 10KΩ, 32 Tap, 3-Wire Up/Down	8-MSOP	3.42	2.39	2.07
X9317US8	X9317US8-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.16	2.21	1.92
X9317US8I	X9317US8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.93	2.75	2.38
X9317UM8	X9317UM8-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	3.70	2.58	2.24
X9317UM8I	X9317UM8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	4.62	3.23	2.80
X9317UV8	X9317UV8-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	3.70	2.58	2.24
X9317UV8I	X9317UV8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	4.62	3.23	2.80
X9317US8-2.7	X9317US8-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.46	2.42	2.10
X9317US8I-2.7	X9317US8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.32	3.02	2.62
X9317UM8-2.7	X9317UM8-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	4.09	2.85	2.47
X9317UM8I-2.7	X9317UM8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	5.12	3.57	3.10
X9317UV8-2.7	X9317UV8-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	4.09	2.85	2.47
X9317UV8I-2.7	X9317UV8I-2.7-ND	Single DCP, 2.7V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	5.12	3.57	3.10
X9317WP	X9317WP-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	3.16	2.21	1.92
X9317WS8	X9317WS8-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.16	2.21	1.92
X9317WS8I	X9317WS8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.93	2.75	2.38
X9317WM8	X9317WM8-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	3.70	2.58	2.24
X9317WM8I	X9317WM8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	4.62	3.23	2.80
X9317WV8	X9317WV8-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	3.70	2.58	2.24
X9317WV8I	X9317WV8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	4.62	3.23	2.80
X9317WS8-2.7	X9317WS8-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.46	2.42	2.10
X9317WS8I-2.7	X9317WS8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	4.32	3.02	2.62
X9317WM8-2.7	X9317WM8-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	4.09	2.85	2.47
X9317WM8I-2.7	X9317WM8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-MSOP	5.12	3.57	3.10
X9317WV8-2.7	X9317WV8-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	4.09	2.85	2.47
X9317WV8I-2.7	X9317WV8I-2.7-ND	Single DCP, 2.7V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-TSSOP	5.12	3.57	3.10
X9317ZS8	X9317ZS8-ND	Single DCP, 5V, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.16	2.21	1.92
X9317ZS8I	X9317ZS8I-ND	Single DCP, 5V, 1KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	3.93	2.75	2.38
X9319UP8I	X9319UP8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	2.60	1.82	1.58
X9319WP8I	X9319WP8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-Dip	2.60	1.82	1.58
X9319US8I	X9319US8I-ND	Single DCP, 5V, 50KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	2.60	1.82	1.58
X9319WS8I	X9319WS8I-ND	Single DCP, 5V, 10KΩ, 100 Tap, 3-Wire Up/Down	8-SOIC	2.60	1.82	1.58
X9400WP24	X9400WP24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-Dip	8.41	5.87	5.09
X9400WS24	X9400WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	7.57	5.28	4.58
X9400WS24I	X9400WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	9.44	6.59	5.71
X9400WV24	X9400WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	9.44	6.59	5.71
X9400WV24I	X9400WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	11.80	8.24	7.14
X9400WS24-2.7	X9400WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	8.32	5.81	5.04
X9400WS24I-2.7	X9400WS24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	10.38	7.25	6.28
X9400WV24-2.7	X9400WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	10.38	7.25	6.28
X9400WV24I-2.7	X9400WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	12.99	9.06	7.86
X9401WS24	X9401WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-SOIC	7.57	5.28	4.58
X9401WS24I	X9401WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-SOIC	9.44	6.59	5.71
X9401WV24	X9401WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-TSSOP	9.44	6.59	5.71
X9401WV24I	X9401WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	24-TSSOP	11.80	8.24	7.14
X9401WS24-2.7	X9401WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	24-SOIC	8.32	5.81	5.04
X9401WS24I-2.7	X9401WS24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	24-SOIC	10.38	7.25	6.28
X9401WV24-2.7	X9401WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	24-TSSOP	10.38	7.25	6.28
X9401WV24I-2.7	X9401WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	24-TSSOP	12.99	9.06	7.86
X9408WS24	X9408WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-SOIC	7.57	5.28	4.58
X9408WS24I	X9408WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap,I^2C, Dual Supply	24-SOIC	9.44	6.59	5.71
X9408WV24	X9408WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-TSSOP	9.44	6.59	5.71
X9408WV24I	X9408WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-TSSOP	11.80	8.24	7.14
X9408WS24-2.7	X9408WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-SOIC	8.32	5.81	5.04
X9408WS24I-2.7	X9408WS24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap,I^2C, Dual Supply	24-SOIC	10.38	7.25	6.28
X9408WV24-2.7	X9408WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-TSSOP	10.38	7.25	6.28
X9408WV24I-2.7	X9408WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-TSSOP	12.99	9.06	7.86
X9409WS24	X9409WS24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C, Single Supply	24-SOIC	6.84	4.77	4.14
X9409WS24I	X9409WS24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C, Single Supply	24-SOIC	8.56	5.97	5.18
X9409WV24	X9409WV24-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C, Single Supply	24-TSSOP	9.44	6.59	5.71
X9409WV24I	X9409WV24I-ND	Quad DCP, 5V, 10KΩ, 64 Tap, I^2C, Single Supply	24-TSSOP	11.80	8.24	7.14
X9409WS24-2.7	X9409WS24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Single Supply	24-SOIC	7.53	5.25	4.55
X9409WS24I-2.7	X9409WS24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Single Supply	24-SOIC	9.40	6.56	5.69
X9409WV24-2.7	X9409WV24-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Single Supply	24-TSSOP	10.38	7.25	6.28
X9409WV24I-2.7	X9409WV24I-2.7-ND	Quad DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Single Supply	24-TSSOP	12.99	9.06	7.86
X9410WS24	X9410WS24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	5.22	3.65	3.16
X9410WS24I	X9410WS24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	6.51	4.55	3.94
X9410WV24	X9410WV24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	6.51	4.55	3.94

* *RoHS Compliant*

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

DIGITALLY CONTROLLED POTENTIOMETERS (XDCP™) *(Continued)*

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
X9410WV24I	X9410WV24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	8.13	5.67	4.92
X9410WS24-2.7	X9410WS24-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	5.72	3.99	3.46
X9410WS24I-2.7	X9410WS24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-SOIC	7.14	4.98	4.32
X9410WV24-2.7	X9410WV24-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	7.14	4.98	4.32
X9410WV24I-2.7	X9410WV24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	24-TSSOP	8.94	6.24	5.41
X9418WS24	X9418WS24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-SOIC	5.68	3.96	3.44
X9418WS24I	X9418WS24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-SOIC	7.10	4.95	4.29
X9418WV24	X9418WV24-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-TSSOP	7.10	4.95	4.29
X9418WV24I	X9418WV24I-ND	Dual DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-TSSOP	8.86	6.18	5.36
X9418WV24-2.7	X9418WV24-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-TSSOP	7.78	5.43	4.71
X9418WS24I-2.7	X9418WS24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Dual Supply	24-SOIC	7.78	5.43	4.71
X9420WS16	X9420WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	3.46	2.42	2.10
X9420WS16I	X9420WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	4.34	3.03	2.63
X9420WV14I	X9420WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Dual Supply	14-TSSOP	5.12	3.57	3.10
X9420WS16-2.7	X9420WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	3.81	2.66	2.31
X9420WS16I-2.7	X9420WS16I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	16-SOIC	4.77	3.33	2.89
X9420WV14-2.7	X9420WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	14-TSSOP	4.49	3.14	2.72
X9420WV14I-2.7	X9420WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Dual Supply	14-TSSOP	5.61	3.92	3.40
X9421WS16	X9421WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	3.46	2.42	2.10
X9421WS16I	X9421WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	4.34	3.03	2.63
X9421WV14	X9421WV14-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	14-TSSOP	4.09	2.85	2.47
X9421WV14I	X9421WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, SPI, Single Supply	14-TSSOP	5.12	3.57	3.10
X9421WS16-2.7	X9421WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	3.81	2.66	2.31
X9421WS16I-2.7	X9421WS16I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	16-SOIC	4.77	3.33	2.89
X9421WV14-2.7	X9421WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	14-TSSOP	4.49	3.14	2.72
X9421WV14I-2.7	X9421WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, SPI, Single Supply	14-TSSOP	5.61	3.92	3.40
X9428WS16	X9428WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	16-SOIC	3.46	2.42	2.10
X9428WS16I	X9428WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	16-SOIC	4.34	3.03	2.63
X9428WV14	X9428WV14-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	14-TSSOP	4.09	2.85	2.47
X9428WV14I	X9428WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^2C, Dual Supply	14-TSSOP	5.12	3.57	3.10
X9428WS16-2.7	X9428WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Dual Supply	16-SOIC	3.81	2.66	2.31
X9428WS16I-2.7	X9428WS16I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Dual Supply	16-SOIC	4.77	3.33	2.89
X9428WV14-2.7	X9428WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Dual Supply	14-TSSOP	4.49	3.14	2.72
X9428WV14I-2.7	X9428WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Dual Supply	14-TSSOP	5.61	3.92	3.40
X9429WS16	X9429WS16-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^2C, Single Supply	16-SOIC	3.46	2.42	2.10
X9429WS16I	X9429WS16I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^2C, Single Supply	16-SOIC	4.34	3.03	2.63
X9429WV14	X9429WV14-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^2C, Single Supply	14-TSSOP	4.09	2.85	2.47
X9429WV14I	X9429WV14I-ND	Single DCP, 5V, 10KΩ, 64 Tap, I^2C, Single Supply	14-TSSOP	5.12	3.57	3.10
X9429WS16-2.7	X9429WS16-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Single Supply	16-SOIC	3.81	2.66	2.31
X9429WV14-2.7	X9429WV14-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Single Supply	14-TSSOP	4.49	3.14	2.72
X9429WV14I-2.7	X9429WV14I-2.7-ND	Single DCP, 2.7V, 10KΩ, 64 Tap, I^2C, Single Supply	14-TSSOP	4.32	3.02	2.62
X9455TV24I-2.7	X9455TV24I-2.7-ND	Dual DCP, 2.7V, 100KΩ, 256 Tap, Two-Wiper	24-TSSOP	5.89	4.11	3.57
X9455UV24I-2.7	X9455UV24I-2.7-ND	Dual DCP, 2.7V, 50KΩ, 256 Tap, Two-Wiper	24-TSSOP	5.89	4.11	3.57
X9455WV24I-2.7	X9455WV24I-2.7-ND	Dual DCP, 2.7V, 10KΩ, 256 Tap, Two-Wiper	24-TSSOP	5.89	4.11	3.57
X9455YV24I-2.7	X9455YV24I-2.7-ND	Dual DCP, 2.7V, 2.8KΩ, 256 Tap, Two-Wiper	24-TSSOP	5.89	4.11	3.57
X9511WP	X9511WP-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-Dip	2.11	1.47	1.28
X9511WPI	X9511WPI-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-Dip	2.62	1.83	1.59
X9511WS	X9511WS-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-SOIC	2.11	1.47	1.28
X9511WSI	X9511WSI-ND	Single DCP, 5V, 10KΩ, 32 Tap, Pushpot	8-SOIC	2.62	1.83	1.59

DIGITALLY CONTROLLED POTENTIOMETERS WITH OP AMP

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
X9430WS24	X9430WS24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-SOIC	4.97	3.47	3.01
X9430WS24I	X9430WS24I-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-SOIC	5.22	3.65	3.16
X9430WV24	X9430WV24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, SPI	24-TSSOP	4.97	3.47	3.01
X9430WS24-2.7	X9430WS24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-SOIC	9.14	6.38	5.53
X9430WS24I-2.7	X9430WS24I-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-SOIC	5.22	3.65	3.16
X9430WV24-2.7	X9430WV24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, SPI	24-TSSOP	4.97	3.47	3.01
X9438WV24	X9438WV24-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, I^2C	24-TSSOP	4.97	3.47	3.01
X9438WV24I	X9438WV24I-ND	Dual DCP, Dual Op Amp, 5V, 10KΩ, 64 Tap, I^2C	24-TSSOP	5.22	3.65	3.16
X9438WV24-2.7	X9438WV24-2.7-ND	Dual DCP, Dual Op Amp, 2.7V, 10KΩ, 64 Tap, I^2C	24-TSSOP	4.97	3.47	3.01

DRIVERS/RECEIVERS

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
EL2141CSZ	EL2141CSZ-ND	150MHz Diff. Twisted-Pair Driver*	8-SOIC	5.13	3.90	2.98
EL2142CSZ	EL2142CSZ-ND	Diff. Line Receiver*	8-SOIC	5.13	3.90	2.98
EL4543IUZ	EL4543IUZ-ND	Triple Diff. Twisted-Pair Driver*	24-QSOP	4.73	3.60	2.75
EL5170IS	EL5170IS-ND	100MHz Diff. Twisted-Pair Driver	8-SOIC	1.67	1.25	.92
EL5170IY	EL5170IY-ND	100MHz Diff. Twisted-Pair Driver	8-MSOP	1.67	1.25	.92
EL5171IS	EL5171IS-ND	250MHz Diff. Twisted-Pair Driver	8-SOIC	2.14	1.59	1.18
EL5171ISZ	EL5171ISZ-ND	250MHz Diff. Twisted-Pair Driver*	8-SOIC	2.14	1.59	1.18
EL5172IS	EL5172IS-ND	250MHz Diff. Line Receiver	8-SOIC	1.67	1.25	.92
EL5172ISZ	EL5172ISZ-ND	250MHz Diff. Line Receiver*	8-SOIC	1.67	1.25	.92
EL5172IY	EL5172IY-ND	250MHz Diff. Line Receiver	8-MSOP	1.67	1.25	.92
EL5173IS	EL5173IS-ND	450MHz Diff. Twisted-Pair Driver	8-SOIC	3.13	2.38	1.82
EL5173IY	EL5173IY-ND	450MHz Diff. Twisted-Pair Driver	8-MSOP	3.13	2.38	1.82
EL5174IS	EL5174IS-ND	550MHz Diff. Twisted-Pair Driver	8-SOIC	2.88	2.19	1.67
EL5175IS	EL5175IS-ND	550MHz Diff. Line Receiver	8-SOIC	2.88	2.19	1.67
EL5175ISZ	EL5175ISZ-ND	550MHz Diff. Line Receiver*	8-SOIC	2.88	2.19	1.67
EL5175IY	EL5175IY-ND	550MHz Diff. Line Receiver	8-MSOP	2.88	2.19	1.67
EL5176IY	EL5176IY-ND	250MHz Diff. Twisted-Pair Driver	10-MSOP	1.67	1.25	.92
EL5177IY	EL5177IY-ND	550MHz Diff. Twisted-Pair Driver	10-MSOP	2.57	1.91	1.42
EL5177IYZ	EL5177IYZ-ND	550MHz Diff. Twisted-Pair Driver*	10-MSOP	2.57	1.91	1.42
EL5370IUZ	EL5370IUZ-ND	100MHz Diff. Twisted-Pair Driver*	24-QSOP	4.70	3.58	2.73
EL5373IUZ	EL5373IUZ-ND	450MHz Diff. Twisted-Pair Driver*	24-QSOP	5.78	4.39	3.35
EL5374IUZ	EL5374IUZ-ND	550MHz Diff. Twisted-Pair Driver*	28-QSOP	5.78	4.39	3.35
EL5375IUZ	EL5375IUZ-ND	550MHz Diff. Line Receiver*	24-QSOP	5.78	4.39	3.35
EL7104CSZ	EL7104CSZ-ND	High Speed, Single Ch., Power MOSFET Driver*	8-SOIC	3.93	2.99	2.28
EL7154CSZ	EL7154CSZ-ND	High Speed Mono Pin Driver*	8-SOIC	4.65	3.54	2.70
EL7155CSZ	EL7155CSZ-ND	High Performance Pin Driver*	8-SOIC	4.83	3.67	2.80
EL7156CSZ	EL7156CSZ-ND	High Performance Pin Driver*	8-SOIC	4.83	3.67	2.80
EL7158ISZ	EL7158ISZ-ND	Ultra-High Current Pin Driver*	8-SOIC	5.57	4.40	3.53
EL7202CSZ	EL7202CSZ-ND	High Speed, Dual Channel Power MOSFET Driver*	8-SOIC	3.93	2.99	2.28
EL7212CSZ	EL7212CSZ-ND	High Speed, Dual Channel Power MOSFET Driver*	8-SOIC	3.93	2.99	2.28
EL7222CSZ	EL7222CSZ-ND	High Speed, Dual Channel Power MOSFET Driver*	8-SOIC	3.93	2.99	2.28
EL7242CSZ	EL7242CSZ-ND	Dual Input, HS, Dual Channel Power MOSFET Driver*	8-SOIC	4.50	3.42	2.61
EL7457CLZ	EL7457CLZ-ND	40MHz Non-Inverting Quad CMOS Driver*	16-QFN	3.90	2.97	2.27
EL7457CSZ	EL7457CSZ-ND	40MHz Non-Inverting Quad CMOS Driver*	16-SOIC	4.10	3.12	2.38
EL7457CUZ	EL7457CUZ-ND	40MHz Non-Inverting Quad CMOS Driver*	16-QSOP	3.90	2.97	2.27
EL9110IU	EL9110IU-ND	Differential Receiver/Equalizer	16-QSOP	10.06	8.63	7.65
EL9110IUZ	EL9110IUZ-ND	Diff. Receiver/Equalizer*	16-QSOP	10.06	8.63	7.65
EL9111ILZ	EL9111ILZ-ND	Triple Diff. Receiver/Equalizer*	28-QFN	21.23	19.81	18.40
EL9112ILZ	EL9112ILZ-ND	Triple Diff. Receiver/Equalizer*	28-QFN	21.23	19.81	18.40
HIN202CBN	HIN202CBN-ND	5V, RS-232 Transmitter/Receiver	16-SOIC	1.43	1.05	.76
HIN202CBNZ	HIN202CBNZ-ND	5V, RS-232 Transmitter/Receiver*	16-SOIC	1.43	1.05	.76
HIN202CBZ	HIN202CBZ-ND	5V, RS-232 Transmitter/Receiver*	16-SOIC	1.43	1.05	.76
HIN202CP	HIN202CP-ND	5V, RS-232 Transmitter/Receiver	16-Dip	1.43	1.05	.76
HIN202ECBN	HIN202ECBN-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	16-SOIC	1.43	1.05	.76
HIN202ECBZ	HIN202ECBZ-ND	5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SOIC	1.43	1.05	.76
HIN202ECP	HIN202ECP-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	16-Dip	1.80	1.32	.96
HIN202EIBN	HIN202EIBN-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	16-SOIC	1.43	1.05	.76
HIN202IBN	HIN202IBN-ND	5V, RS-232 Transmitter/Receiver	16-SOIC	1.74	1.29	.96
HIN206CB	HIN206CB-ND	5V, RS-232 Transmitter/Receiver	24-SOIC	2.98	2.27	1.73
HIN208EIA	HIN208EIA-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	24-SSOP	3.63	2.76	2.11
HIN211ECA	HIN211ECA-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	28-SSOP	2.91	2.17	1.60
HIN211EIA	HIN211EIA-ND	5V, RS-232 Transmitter/Receiver, ESD Protected	28-SSOP	2.23	1.66	1.23
HIN211EIAZ	HIN211EIAZ-ND	5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	2.23	1.66	1.23
HIN232ACBN	HIN232ACBN-ND	5V RS-232 Transmitter/Receiver, HS	16-SOIC	1.43	1.05	.76
HIN232ACP	HIN232ACP-ND	5V RS-232 Transmitter/Receiver, HS	16-Dip	1.50	1.10	.80
HIN232CBZ	HIN232CBZ-ND	5V RS-232 Transmitter/ Receiver, HS*	16-SOIC	1.28	.94	.68
HIN232CPZ	HIN232CPZ-ND	5V RS-232 Transmitter/ Receiver, HS*	16-PDip	1.28	.94	.68
HIN232ECBNZ	HIN232ECBNZ-ND	5V RS-232 Transmitter/Receiver, HS, ESD Protected*	16-SOIC	1.95	1.45	1.08
HIN232ECPZ	HIN232ECPZ-ND	5V RS-232 Transmitter/Receiver, HS, ESD Protected*	16-PDip	1.83	1.36	1.01
HIP2100EIBZ	HIP2100EIBZ-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-EPSOIC	3.48	2.65	2.02
HIP2100IB	HIP2100IB-ND	100V, 2A Peak, High Freq. Half Bridge Driver	8-SOIC	3.33	2.53	1.93
HIP2100IBZ	HIP2100IBZ-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	3.33	2.53	1.93
HIP2100IR	HIP2100IR-ND	100V, 2A Peak, High Freq. Half Bridge Driver	16-QFN	3.63	2.76	2.11

* ***RoHS Compliant***

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Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
HIP2101IB	HIP2101IB-ND	100V, 2A Peak, High Freq. Half Bridge Driver	8-SOIC	3.33	2.53	1.93
HIP2101IBZ	HIP2101IBZ-ND	100V, 2A Peak, High Freq., Half Bridge Driver*	8-SOIC	3.33	2.53	1.93
HIP4080AIB	HIP4080AIB-ND	80V, 2.5A Peak, High Freq. Full Bridge FET Driver	20-SOIC	5.50	4.18	3.19
HIP4080AIBZ	HIP4080AIBZ-ND	80V, 2.5A Peak, High Freq. Full Bridge FET Driver* ***NEW!***	20-SOIC	5.50	4.18	3.19
HIP4080AIP	HIP4080AIP-ND	80V, 2.5A Peak, High Freq. Full Bridge FET Driver	20-Dip	5.55	4.22	3.22
HIP4080AIPZ	HIP4080AIPZ-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-Dip	5.55	4.22	3.22
HIP4081AIB	HIP4081AIB-ND	80V, 2.5A Peak, High Freq. Full Bridge FET Driver	20-SOIC	5.50	4.18	3.19
HIP4081AIBZ	HIP4081AIBZ-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-SOIC	5.50	4.18	3.19
HIP4081AIP	HIP4081AIP-ND	80V, 2.5A Peak, High Freq. Full Bridge FET Driver	20-Dip	6.00	4.56	3.48
HIP4081AIPZ	HIP4081AIPZ-ND	80V, 2.5A Peak, High Freq., Full Bridge FET Driver*	20-Dip	6.00	4.56	3.48
HIP4082IB	HIP4082IB-ND	80V, 1.25A Peak Current H-Bridge FET Driver	16-SOIC	4.13	3.14	2.40
HIP4082IBZ	HIP4082IBZ-ND	80V, 1.25A Peak Current H-Bridge FET Driver*	16-SOIC	4.13	3.14	2.40
HIP4082IP	HIP4082IP-ND	80V, 1.25A Peak Current H-Bridge FET Driver	16-Dip	4.25	3.23	2.47
HIP4082IPZ	HIP4082IPZ-ND	80V, 1.25A Peak Current H-Bridge FET Driver*	16-Dip	4.25	3.23	2.47
HIP4083APZ	HIP4083APZ-ND	80V, 300mA Three Phase High Side Driver*	16-Dip	3.88	2.95	2.25
HIP4086AB	HIP4086AB-ND	80V, 0.5A Three Phase Driver	24-SOIC	6.30	4.98	3.99
HIP4086ABZ	HIP4086ABZ-ND	80V, 0.5A Three Phase Driver*	24-SOIC	6.30	4.98	3.99
HIP4086APZ	HIP4086APZ-ND	80V, 0.5A Three Phase Driver*	24-Dip	6.72	5.32	4.26
HIP6601BCB	HIP6601BCB-ND	Sync. Rectified Buck Dual MOSFET Driver	8-SOIC	2.95	2.25	1.72
HIP6601BCBZA	HIP6601BCBZA-ND	Sync. Rectified Buck Dual MOSFET Driver*	8-SOIC	2.95	2.25	1.72
ICL232CBEZ	ICL232CBEZ-ND	5V Powered, Dual RS-232 Transmitter/Receiver*	16-SOIC	2.88	2.19	1.67
ICL3217ECB	ICL3217ECB-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	24-SOIC	5.83	4.43	3.38
ICL3217EIB	ICL3217EIB-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	24-SOIC	5.61	4.44	3.56
ICL3221CAZ	ICL3221CAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-SSOP	1.77	1.32	.97
ICL3221CVZ	ICL3221CVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-TSSOP	1.77	1.32	.97
ICL3221ECA	ICL3221ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SSOP	1.77	1.32	.97
ICL3221ECAZ	ICL3221ECAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	1.77	1.32	.97
ICL3221EIA	ICL3221EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SSOP	2.23	1.66	1.23
ICL3221EIAZ	ICL3221EIAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	2.23	1.66	1.23
ICL3221EIVZ	ICL3221EIVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	1.85	1.41	1.08
ICL3221IAZ	ICL3221IAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	2.17	1.61	1.19
ICL3222CVZ	ICL3222CVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	20-TSSOP	2.14	1.59	1.18
ICL3222EIB	ICL3222EIB-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	18-SOIC	3.01	2.24	1.65
ICL3224EIA	ICL3224EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	20-SSOP	3.98	3.03	2.31
ICL3225ECA	ICL3225ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	20-SSOP	2.73	2.08	1.59
ICL3225EIA	ICL3225EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	20-SSOP	4.00	3.04	2.32
ICL3226ECA	ICL3226ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SSOP	2.53	1.92	1.47
ICL3227ECA	ICL3227ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SSOP	2.95	2.19	1.62
ICL3227EIA	ICL3227EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SSOP	2.90	2.21	1.69
ICL3227EIAZA	ICL3227EIAZA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SSOP	2.90	2.21	1.69
ICL3232CBN	ICL3232CBN-ND	3V-5.5V, RS-232 Transmitter/Receiver	16-SOIC	1.55	1.15	.85
ICL3232CBNZ	ICL3232CBNZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-SOIC	1.55	1.15	.85
ICL3232CP	ICL3232CP-ND	3V-5.5V, RS-232 Transmitter/Receiver	16-Dip	1.55	1.15	.85
ICL3232CVZ	ICL3232CVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-TSSOP	1.55	1.15	.85
ICL3232ECBN	ICL3232ECBN-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-SOIC	2.64	1.96	1.45
ICL3232ECBZ	ICL3232ECBZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-SOIC	2.64	1.96	1.45
ICL3232ECV-16Z	ICL3232ECV-16Z-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	16-TSSOP	2.85	2.17	1.66
ICL3232IBN	ICL3232IBN-ND	3V-5.5V, RS-232 Transmitter/Receiver	16-SOIC	1.55	1.15	.85
ICL3232IBNZ	ICL3232IBNZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-SOIC	1.55	1.15	.85
ICL3232IVZ	ICL3232IVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver*	16-TSSOP	1.55	1.15	.85
ICL3238EIAZ	ICL3238EIAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	3.75	2.85	2.18
ICL3241EIVZ	ICL3241EIVZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-TSSOP	3.26	2.58	2.07
ICL3243ECA	ICL3243ECA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	28-SSOP	2.20	1.64	1.21
ICL3243ECVZA	ICL3243ECVZA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-TSSOP	2.39	1.78	1.31
ICL3243EIA	ICL3243EIA-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	28-SSOP	2.88	2.14	1.59
ICL3243EIAZ	ICL3243EIAZ-ND	3V-5.5V, RS-232 Transmitter/Receiver, ESD Protected*	28-SSOP	2.88	2.14	1.59
ICL7667CPAZ	ICL7667CPAZ-ND	Dual Power MOSFET Driver*	8-Dip	2.54	1.89	1.40
ICM7228AIBIZ	ICM7228AIBIZ-ND	8-Digit, Microprocessor-Compatible, LED Display Decoder Driver*	28-SOIC	7.46	5.90	4.73
ISL4221EIR	ISL4221EIR-ND	2.7V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	16-QFN	3.40	2.59	1.98
ISL4223EIR	ISL4223EIR-ND	2.7V-5.5V, RS-232 Transmitter/Receiver, ESD Protected	20-QFN	5.03	3.82	2.92
ISL4243EIR	ISL4243EIR-ND	2.7V-5.5V, RS-232 Transceiver, ESD Protected	32-QFN	5.95	4.53	3.46
ISL4244EIRZ	ISL4244EIRZ-ND	2.7V-5.5V, RS-232 Transceiver, ESD Protected*	32-QFN	5.50	4.35	3.49
ISL4485EIB	ISL4485EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.48	1.84	1.36
ISL4485EIBZ	ISL4485EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.48	1.84	1.36
ISL4489EIB	ISL4489EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	2.17	1.61	1.19
ISL4491EIB	ISL4491EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	2.17	1.61	1.19
ISL6207CBZ	ISL6207CBZ-ND	High Volt. Sync. Rectified Buck MOSFET Driver*	8-SOIC	2.11	1.57	1.16
ISL6605CBZ	ISL6605CBZ-ND	Sync. Rectified MOSFET Driver*	8-SOIC	2.53	1.92	1.47
ISL6605CRZ	ISL6605CRZ-ND	Sync. Rectified MOSFET Driver*	8-QFN	2.73	2.08	1.59
ISL6605IB	ISL6605IB-ND	Sync. Rectified MOSFET Driver	8-SOIC	2.67	1.98	1.47
ISL6605IBZ	ISL6605IBZ-ND	Sync. Rectified MOSFET Driver*	8-SOIC	2.67	1.98	1.47
ISL6608IB	ISL6608IB-ND	Sync. Rectified MOSFET Driver	8-SOIC	3.80	2.89	2.21
ISL6612ACBZ	ISL6612ACBZ-ND	Advanced Sync. Rectified Buck MOSFET Driver*	8-SOIC	3.05	2.32	1.77
ISL6612BCBZ	ISL6612BCBZ-ND	Advanced Sync. Rectified Buck MOSFET Driver*	8-SOIC	3.55	2.70	2.06
ISL6612CBZ	ISL6612CBZ-ND	Advanced Sync. Rectified Buck MOSFET Driver*	8-SOIC	3.05	2.32	1.77
ISL6612IB	ISL6612IB-ND	Advanced Sync. Rectified Buck MOSFET Driver	8-SOIC	3.30	2.51	1.92
ISL6614ACB	ISL6614ACB-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	14-SOIC	5.80	4.41	3.37
ISL6614ACBZ	ISL6614ACBZ-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver*	14-SOIC	5.80	4.41	3.37
ISL6614ACR	ISL6614ACR-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	16-QFN	5.93	4.51	3.44
ISL6614AIB	ISL6614AIB-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	14-SOIC	6.05	4.60	3.51
ISL6614AIR	ISL6614AIR-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	16-QFN	6.18	4.70	3.59
ISL6614CB	ISL6614CB-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	14-SOIC	5.80	4.41	3.37
ISL6614CBZ	ISL6614CBZ-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver*	14-SOIC	5.80	4.41	3.37
ISL6614CR	ISL6614CR-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	16-QFN	5.93	4.51	3.44
ISL6614CRZ	ISL6614CRZ-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver*	16-QFN	5.93	4.51	3.44
ISL6614IB	ISL6614IB-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	14-SOIC	6.05	4.60	3.51
ISL6614IR	ISL6614IR-ND	Dual Advanced Sync. Rectified Buck MOSFET Driver	16-QFN	6.18	4.70	3.59
ISL6700IB	ISL6700IB-ND	80V, 1.25A Peak, Medium Freq., Half Bridge Driver	8-SOIC	2.79	2.07	1.53
ISL6700IR	ISL6700IR-ND	80V, 1.25A Peak, Medium Freq., Half Bridge Driver	12-QFN	2.82	2.10	1.55
ISL6801AB	ISL6801AB-ND	High Volt. Bootstrap High Side Driver	8-SOIC	4.20	3.20	2.44
ISL81486IB	ISL81486IB-ND	5V, Ultra High Speed, PROFIBUS® RS-485/RS-422 Transceiver	8-SOIC	2.17	1.61	1.19
ISL81487EIB	ISL81487EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.76	2.05	1.52
ISL81487EIP	ISL81487EIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	2.76	2.05	1.52
ISL81487LIB	ISL81487LIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.17	1.61	1.19
ISL81487LIP	ISL81487LIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	2.17	1.61	1.19
ISL83080EIB	ISL83080EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	3.15	2.40	1.83
ISL83082EIB	ISL83082EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	3.15	2.40	1.83
ISL83083EIB	ISL83083EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	3.15	2.40	1.83
ISL83085EIB	ISL83085EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	3.15	2.40	1.83
ISL83086EIB	ISL83086EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	3.15	2.40	1.83
ISL83088EIB	ISL83088EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	3.15	2.40	1.83
ISL83387EIV	ISL83387EIV-ND	3V-5.5V, RS-232 Transceiver, ESD Protected	24-TSSOP	4.20	3.20	2.44
ISL83483IB	ISL83483IB-ND	3.3V, Low Power, Slew Rate Limited, RS-485/RS-422 Transceiver	8-SOIC	2.85	2.12	1.57
ISL83485IB	ISL83485IB-ND	3.3V, Low Power, HS, RS-485/RS-422 Transceiver	8-SOIC	2.60	1.94	1.43
ISL83488IB	ISL83488IB-ND	3.3V, Low Power, Slew Rate Limited, RS-485/RS-422 Transceiver	8-SOIC	2.60	1.94	1.43
ISL83491IB	ISL83491IB-ND	3.3V, Low Power, HS, RS-485/RS-422 Transceiver	14-SOIC	2.33	1.73	1.28
ISL8483EIB	ISL8483EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.64	1.96	1.45
ISL8483EIBZ	ISL8483EIBZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	2.64	1.96	1.45
ISL8483EIP	ISL8483EIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	2.64	1.96	1.45
ISL8483EIPZ	ISL8483EIPZ-ND	5V, RS-485/RS-422 Transceiver, ESD Protected*	8-PDip	2.64	1.96	1.45
ISL8485EIB	ISL8485EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.48	1.84	1.36

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intersil DRIVERS/RECEIVERS *(Continued)*

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ISL8485EIP	ISL8485EIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	2.48	1.84	1.36
ISL8487EIB	ISL8487EIB-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	2.95	2.19	1.62
ISL8487EIP	ISL8487EIP-ND	5V, RS-485/RS-422 Transceiver, ESD Protected	8-Dip	2.95	2.19	1.62
ISL8488IB	ISL8488IB-ND	5V, RS-485/RS-422 Transceiver	8-SOIC	2.02	1.50	1.11
ISL8488IP	ISL8488IP-ND	5V, RS-485/RS-422 Transceiver	8-Dip	2.02	1.50	1.11
ISL8489IB	ISL8489IB-ND	5V, RS-485/RS-422 Transceiver	14-SOIC	2.02	1.50	1.11
ISL8489IP	ISL8489IP-ND	5V, RS-485/RS-422 Transceiver	14-Dip	2.02	1.50	1.11
ISL43485IBZ	ISL43485IBZ-ND	3.3V, Low Power, RS-485/RS-422 Transceiver*	8-SOIC	2.48	1.84	1.36
ISL59830IAZ	ISL59830IAZ-ND	Single Supply Video Driver*	16-QSOP	3.35	2.55	1.95
ISL81486IBZ	ISL81486IBZ-ND	5V, Ultra High Speed, PROFIBUS, RS-485/ RS-422 Transceiver*	8-SOIC	2.17	1.61	1.19
ISL83070EIBZA	ISL83070EIBZA-ND	3.3V, Full Fail-Safe, Low Power, High Speed or Slew Rate Limited, RS-485/RS-422 Transceiver, ESD Prot.*	14-SOIC	3.15	2.40	1.83
ISL83072EIBZA	ISL83072EIBZA-ND	3.3V, Full Fail-Safe, Low Power, High Speed or Slew Rate Limited, RS-485/RS-422 Transceiver, ESD Prot.*	8-SOIC	3.15	2.40	1.83
ISL83075EIBZA	ISL83075EIBZA-ND	3.3V, Full Fail-Safe, Low Power, High Speed or Slew Rate Limited, RS-485/RS-422 Transceiver, ESD Prot.*	8-SOIC	3.15	2.40	1.83
ISL83082EIBZ	ISL83082EIBZ-ND	5V, Full Fail-Safe, Fractional 1/8 Unit Load, RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	3.15	2.40	1.83
ISL83083EIBZ	ISL83083EIBZ-ND	5V, Full Fail-Safe, Fractional 1/8 Unit Load, RS-485/RS-422 Transceiver, ESD Protected*	14-SOIC	3.15	2.40	1.83
ISL83485IBZ	ISL83485IBZ-ND	3.3V, Low Power, High Speed, RS-485/ RS-422 Transceiver*	8-SOIC	2.60	1.94	1.43
ISL83387EIVZ	ISL83387EIVZ-ND	3V-5.5V, 1Microamp, 250kbps, RS-232 Transceiver, ESD Prot.*	24-TSSOP	4.20	3.20	2.44
ISL88694IH5Z-TK	ISL88694IH5ZCT-ND	SMBus Accelerator*	SOT-23-5	4.28	3.25	2.48
ISL88694IH5Z-TK	ISL88694IH5ZTR-ND	SMBus Accelerator*	SOT-23-5	5364.00/3,000		

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intersil INTERFACE

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
DG406DJZ	DG406DJZ-ND	Single 16-Ch., CMOS Analog Mux*	28-Dip	4.25	3.23	2.47
DG406DY	DG406DY-ND	Single 16-Ch., CMOS Analog Mux	28-SOIC	5.50	4.18	3.19
DG407DY	DG407DY-ND	Diff. 8-Ch., CMOS Analog Mux	28-SOIC	5.57	4.40	3.53
DG408DJZ	DG408DJZ-ND	Single 8-Ch., CMOS Analog Mux*	16-Dip	1.74	1.29	.96
DG408DY	DG408DY-ND	Single 8-Ch., CMOS Analog Mux	16-SOIC	1.83	1.36	1.01
DG409DJZ	DG409DJZ-ND	Diff. 4-Ch., CMOS Analog Mux*	16-Dip	1.92	1.43	1.06
DG409DY	DG409DYIS-ND	Diff. 4-Ch., CMOS Analog Mux	16-SOIC	2.29	1.71	1.26
DG409DYZ	DG409DYZ-ND	Diff. 4-Ch., CMOS Analog Mux*	16-SOIC	1.86	1.38	1.02
EL7513IYZ	EL7513IYZ-ND	White LED Step-Up Reg.*	8-MSOP	3.18	2.42	1.85
EL7515IYZ	EL7515IYZ-ND	High Freq. PWM Step-Up Reg.*	10-MSOP	2.67	1.98	1.47
EL7516IYZ	EL7516IYZ-ND	600KHz/1.2MHz PWM Step-Up Reg.*	8-MSOP	2.57	1.91	1.42
EL7530IYZ	EL7530IYZ-ND	Mono 600mA Step-Down Reg.*	10-MSOP	2.68	2.04	1.56
EL7531IYZ	EL7531IYZ-ND	Mono 1A Step-Down Reg.*	10-MSOP	3.83	2.91	2.22
EL7532IYZ	EL7532IYZ-ND	Mono 2A Step-Down Reg.*	10-MSOP	4.85	3.69	2.82
EL7534IYZ	EL7534IYZ-ND	Mono 600mA Step-Down Reg.*	10-MSOP	2.76	2.05	1.52
EL7536IYZ	EL7536IYZ-ND	Mono 1A Step-Down Reg.*	10-MSOP	3.45	2.63	2.01
EL7554IREZ	EL7554IREZ-ND	Mono 4A DC/DC Step-Down Reg.*	28-HTSSOP	5.69	4.50	3.61
EL7564CMZ	EL7564CMZ-ND	Mono 4A DC/DC Step-Down Reg.*	20-SOIC	8.04	6.36	5.10
EL7566AIREZ	EL7566AIREZ-ND	Mono 6A DC/DC Step-Down Reg.*	28-HTSSOP	9.85	8.45	7.49
EL7566DREZ	EL7566DREZ-ND	Mono 6A DC/DC Step-Down Reg.*	28-HTSSOP	7.22	5.72	4.58
EL7584IRZ	EL7584IRZ-ND	4-Ch. DC/DC Converter*	24-TSSOP	3.70	2.82	2.15
EL7630ICZ-T7A	EL7630ICZ-T7ACT-ND	White LED Boost Regulator*	SC70-6	1.71	1.27	.97
EL7630ICZ-T7A	EL7630ICZ-T7ATR-ND	White LED Boost Regulator*	SC70-6	185.75/250		
HA9P5002-5Z	HA9P5002-5Z-ND	110MHz, High Slew Rate, High Output Current Buffer*	8-SOIC	3.65	2.78	2.12
HI3-0507-5	HI3-0507-5-ND	8-Ch. Diff. CMOS Analog Mux	28-Dip	10.24	8.78	7.79
HI3-0508-5	HI3-0508-5-ND	Single 8-Ch. CMOS Analog Mux	16-Dip	3.05	2.32	1.77
HI3-0508A-5Z	HI3-0508A-5Z-ND	Single 8-Ch. CMOS Analog Mux*	16-PDip	4.00	3.04	2.32
HI3-0509-5	HI3-0509-5-ND	4-Ch. Differential CMOS Analog Mux	16-Dip	6.05	4.60	3.51
HI3-0516-5Z	HI3-0516-5Z-ND	16-Ch./Diff. 8-Ch., CMOS High Speed Analog Mux*	28-Dip	28.79	26.87	24.95
HIP6004BCBZA	HIP6004BCBZA-ND	Buck/Sync. Rectifier (PWM) Controller and Output Volt. Monitor*	20-SOIC	3.65	2.78	2.12
HIP6004ECBZ	HIP6004ECBZ-ND	Buck/Sync. Rectifier (PWM) Controller and Output Volt. Monitor*	20-SOIC	4.85	3.69	2.82
HIP6006CB-T	HIP6006CB-CT-ND	PWM Buck/Sync.-Rectifier Controller	14-SOIC	3.04	2.26	1.67
HIP6006CB-T	HIP6006CB-TR-ND	PWM Buck/Sync.-Rectifier Controller	14-SOIC	3062.50/2,500		
HIP6006CBZ	HIP6006CBZ-ND	PWM Buck/Sync.-Rectifier Controller*	14-SOIC	2.25	1.71	1.31
HIP6013CB	HIP6013CB-ND	PWM Buck Controller	14-SOIC	2.67	1.98	1.47
HIP6301CB-T	HIP6301CB-CT-ND	Microprocessor CORE Voltage Reg., Multi-Phase Buck PWM Controller	20-SOIC	4.65	3.54	2.70
HIP6301CB-T	HIP6301CB-TR-ND	Microprocessor CORE Voltage Reg., Multi-Phase Buck PWM Controller	20-SOIC	2344.00/1,000		
HIP6302CB-T	HIP6302CB-CT-ND	Microprocessor CORE Voltage Reg., Multi-Phase Buck PWM Controller	16-SOIC	4.20	3.20	2.44
HIP6302CB-T	HIP6302CB-TR-ND	Microprocessor CORE Volt. Reg., Multi-Phase Buck PWM Controller	16-SOIC	5250.00/2,500		
HIP6311ACBZA	HIP6311ACBZA-ND	Microprocessor CORE Volt. Reg. Multi-Phase Buck PWM Controller*	20-SOIC	5.04	3.99	3.20
IS82C55AZ	IS82C55AZ-ND	CMOS Prog. Peripheral Interface*	44-PLCC	9.89	8.48	7.52
ISL43681IR	ISL43681IR-ND	Low-Volt., Single Supply, 8-to-1 Mux	20-QFN	2.95	2.19	1.62
ISL43741IR	ISL43741IR-ND	Low-Voltage, Dual Supply, Diff. 4-to-1 Mux	20-QFN	2.95	2.19	1.62
ISL6119HIBZA	ISL6119HIBZA-ND	USB Dual Port Power Supply Controller*	8-SOIC	2.28	1.73	1.32
ISL6144IVZA	ISL6144IVZA-ND	High Voltage ORing MOSFET Controller*	16-TSSOP	5.78	4.57	3.66
ISL6224CA	ISL6224CA-ND	Single Output Mobile-Friendly PWM Controller	16-SSOP	4.15	3.16	2.41
ISL6224CAZ	ISL6224CAZ-ND	Single Output Mobile-Friendly PWM Controller*	16-SSOP	4.15	3.16	2.41
ISL6227CAZ	ISL6227CAZ-ND	Dual Mobile-Friendly PWM Controller with DDR Option*	28-SSOP	4.50	3.42	2.61
ISL6271ACRZ	ISL6271ACRZ-ND	Integrated XScale Reg.*	20-QFN	4.50	3.42	2.61
ISL6401CB	ISL6401CB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	14-SOIC	5.78	4.39	3.35
ISL6401CBZ	ISL6401CBZ-ND	Adj. Freq., Low Power, PWM Current Mode Controller*	14-SOIC	7.16	5.32	3.93
ISL6402IR	ISL6402IR-ND	300KHz Dual Step-Down PWM/Single Linear Controller	28-QFN	5.70	4.34	3.31
ISL6410AIR	ISL6410AIR-ND	5V Single Sync. Buck Reg. with Integrated FET	16-QFN	2.40	1.83	1.40
ISL6410AIU	ISL6410AIU-ND	5V Single Sync. Buck Reg. with Integrated FET	10-MSOP	2.65	2.02	1.54
ISL6410IR	ISL6410IR-ND	3.3V Single Sync. Buck Reg. with Integrated FET	16-QFN	2.98	2.21	1.64
ISL6410IU	ISL6410IU-ND	3.3V Single Sync. Buck Reg. with Integrated FET	10-MSOP	2.65	2.02	1.54
ISL6420IRZ	ISL6420IRZ-ND	Advanced Single Sync. Buck PWM Controller*	20-QFN	3.30	2.51	1.92
ISL6421AERZ	ISL6421AERZ-ND	Single Output LNB Supply and Control Volt. Reg. with I2C Interface*	32-QFN	3.80	2.89	2.21
ISL6431CB	ISL6431CB-ND	High Eff., Fixed Freq., Sync. Buck PWM Controller	8-SOIC	2.88	2.14	1.59
ISL6439CB	ISL6439CB-ND	Single Sync. Buck PWM Controller	14-SOIC	2.78	2.11	1.61
ISL6441IRZ	ISL6441IRZ-ND	1.4MHz Dual, 180° Out-of-Phase, Step-Down PWM/Single Linear Controller*	28-QFN	5.73	4.54	3.64
ISL6443IRZ	ISL6443IRZ-ND	300KHz Dual, 180° Out-of-Phase, Step-Down PWM/Single Linear Controller*	28-QFN	6.20	4.72	3.60
ISL6506BCBZ	ISL6506BCBZ-ND	Multiple Linear Power Controller with ACPI Control Interface*	8-EPSOIC	2.67	1.98	1.47
ISL6520ACB-T	ISL6520ACB-CT-ND	Single Sync. Buck PWM Controller	8-SOIC	2.33	1.73	1.28
ISL6520ACB-T	ISL6520ACB-TR-ND	Single Sync. Buck PWM Controller	8-SOIC	2345.00/2,500		
ISL6520ACBZ	ISL6520ACBZ-ND	Single Sync. Buck PWM Controller*	8-SOIC	2.33	1.73	1.28
ISL6520BCBZ	ISL6520BCBZ-ND	Single Sync. Buck PWM Controller*	8-SOIC	2.88	2.19	1.67
ISL6520CB-T	ISL6520CB-CT-ND	Single Sync. Buck PWM Controller	8-SOIC	2.54	1.89	1.40
ISL6520CB-T	ISL6520CB-TR-ND	Single Sync. Buck PWM Controller	8-SOIC	2562.50/2,500		
ISL6521CB	ISL6521CB-ND	PWM Buck DC/DC and Triple Linear Power Controller	16-SOIC	5.92	4.69	3.76
ISL6521CBZ	ISL6521CBZ-ND	PWM Buck DC/DC and Triple Linear Power Controller*	16-SOIC	5.92	4.69	3.76
ISL6526AIR	ISL6526AIR-ND	Single Sync. PWM Controller	16-QFN	2.53	1.92	1.47
ISL6526CB-T	ISL6526CB-CT-ND	Single Sync. PWM Controller	14-SOIC	2.83	2.15	1.64
ISL6528CB-T	ISL6528CB-CT-ND	Dual Reg. Standard Buck PWM/Linear Power Controller	8-SOIC	4.99	3.80	2.90
ISL6528CB-T	ISL6528CB-TR-ND	Dual Reg. Standard Buck PWM/Linear Power Controller	8-SOIC	6250.00/2,500		
ISL6529CBZ	ISL6529CBZ-ND	Dual Reg. Sync. Rectified Buck PWM/ Linear Power Controller*	14-SOIC	5.00	3.80	2.90
ISL6530CB-T	ISL6530CB-CT-ND	Dual 5V Sync. Buck PWM Controller	24-SOIC	3.90	2.97	2.27
ISL6530CB-T	ISL6530CB-TR-ND	Dual 5V Sync. Buck PWM Controller	24-SOIC	1966.00/1,000		
ISL6531CB	ISL6531CB-ND	Dual 5V Sync. Buck PWM Controller	24-SOIC	4.45	3.39	2.59
ISL6532CRZ	ISL6532CRZ-ND	ACPI Reg./Controller for Dual Channel DDR Memory Systems*	20-QFN	4.41	3.49	2.80
ISL6534CRZR5229	ISL6534CRZR5229-ND	Dual PWM with Linear Controller*	32-QFN	2.28	1.73	1.32
ISL6534CVZR5299	ISL6534CVZR5299-ND	Dual PWM with Linear Controller*	24-TSSOP	4.56	3.61	2.89
ISL6536AIBZ	ISL6536AIBZ-ND	4-Channel Supervisory IC*	8-SOIC	1.15	.86	.63
ISL6539CAZ	ISL6539CAZ-ND	Wide Input, Dual PWM Controller*	28-SSOP	4.88	3.71	2.83
ISL6539IA	ISL6539IA-ND	Wide Input, Dual PWM Controller	28-SSOP	5.40	4.27	3.42
ISL6539IAZ	ISL6539IAZ-ND	Wide Input, Dual PWM Controller	28-SSOP	5.40	4.27	3.42
ISL6551IB	ISL6551IB-ND	ZVS Full Bridge PWM Controller	28-SOIC	7.10	5.62	4.50
ISL6551IBZ	ISL6551IBZ-ND	ZVS Full Bridge PWM Controller*	28-SOIC	7.10	5.62	4.50
ISL6558CB	ISL6558CB-ND	Multi-Purpose Precision Multi-Phase PWM Controller	16-SOIC	3.73	2.84	2.17
ISL6558CBZA	ISL6558CBZA-ND	Multi-Purpose Precision Multi-Phase PWM Controller*	16-SOIC	3.73	2.84	2.17
ISL6558IRZ	ISL6558IRZ-ND	Multi-Purpose Precision Multi-Phase PWM Controller*	20-QFN	3.93	2.99	2.28
ISL6563IR	ISL6563IR-ND	2-Phase Buck PWM Controller	24-QFN	5.95	4.53	3.46
ISL6742AAZA	ISL6742AAZA-ND	Adv. Double-Ended PWM Controller*	16-QSOP	6.53	5.17	4.14
ISL6744AB	ISL6744AB-ND	Intermediate Bus PWM Controller	8-SOIC	3.00	2.28	1.74
ISL6744AUZ	ISL6744AUZ-ND	Intermediate Bus PWM Controller*	8-MSOP	3.25	2.47	1.89
ISL6752AAZA	ISL6752AAZA-ND	ZVS Full-Bridge Current Mode PWM Controller*	16-QSOP	5.98	4.55	3.47
ISL6753AAZA	ISL6753AAZA-ND	ZVS Full-Bridge PWM Controller*	16-QSOP	5.98	4.55	3.47
ISL6840IB	ISL6840IB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	8-SOIC	2.91	2.17	1.60
ISL6841IB	ISL6841IB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	8-SOIC	2.91	2.17	1.60
ISL6842IB	ISL6842IB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	8-SOIC	2.64	1.96	1.45
ISL6843IB	ISL6843IB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	8-SOIC	2.64	1.96	1.45
ISL6843IUZ	ISL6843IUZ-ND	Adj. Freq., Low Power, PWM Current Mode Controller*	8-MSOP	2.95	2.19	1.62
ISL6844IB	ISL6844IB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	8-SOIC	2.64	1.96	1.45
ISL6844IBZ	ISL6844IBZ-ND	Adj. Freq., Low Power, PWM Current Mode Controller*	8-SOIC	2.64	1.96	1.45
ISL6845IB	ISL6845IB-ND	Adj. Freq., Low Power, PWM Current Mode Controller	8-SOIC	2.64	1.96	1.45

intersil PARALLEL EEPROMS

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
X28HC64D-90	X28HC64D-90-ND	64K (8Kx8) CMOS EEPROM 90nS	28-CDip	26.88	14.68	13.89
X28HC64P-90	X28HC64P-90-ND	64K (8Kx8) CMOS EEPROM 90nS	28-Dip	9.68	6.75	5.85
X28HC64PI-90	X28HC64PI-90-ND	64K (8Kx8) CMOS EEPROM 90nS	28-Dip	10.84	7.75	6.63
X28HC64JI-90	X28HC64JI-90-ND	64K (8Kx8) CMOS EEPROM 90nS	32-PLCC	8.60	6.16	5.27
X28HC64D-12	X28HC64D-12-ND	64K (8Kx8) CMOS EEPROM 120nS	28-CDip	25.26	13.82	13.06

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PARALLEL EEPROMS *(Continued)*

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
X28HC64DI-12	X28HC64DI-12-ND	64K (8Kx8) CMOS EEPROM 120nS	28-CDip	26.34	14.40	13.62
X28HC64P-12	X28HC64P-12-ND	64K (8Kx8) CMOS EEPROM 120nS	28-Dip	4.41	3.16	2.70
X28HC64PI-12	X28HC64PI-12-ND	64K (8Kx8) CMOS EEPROM 120nS	28-Dip	6.82	4.88	4.17
X28HC64J-12	X28HC64J-12-ND	64K (8Kx8) CMOS EEPROM 120nS	32-PLCC	7.48	5.36	4.59
X28HC64JI-12	X28HC64JI-12-ND	64K (8Kx8) CMOS EEPROM 120nS	32-PLCC	8.06	5.77	4.93
X28HC256JI-90	X28HC256JI-90-ND	256K (32Kx8) CMOS EEPROM 90nS	32-PLCC	12.90	9.24	7.90
X28HC256P-90	X28HC256P-90-ND	256K (32Kx8) CMOS EEPROM 90nS	28-Dip	16.13	11.54	9.87
X28HC256J-12	X28HC256J-12-ND	256K (32Kx8) CMOS EEPROM 120nS	32-PLCC	9.18	6.63	5.67
X28HC256JI-12	X28HC256JI-12-ND	256K (32Kx8) CMOS EEPROM 120nS	32-PLCC	14.75	10.56	9.04
X28HC256P-12	X28HC256P-12-ND	256K (32Kx8) CMOS EEPROM 120nS	28-Dip	12.90	9.23	7.90
X28HC256PI-12	X28HC256PI-12-ND	256K (32Kx8) CMOS EEPROM 120nS	28-Dip	15.05	10.77	9.22
X28HC256J-15	X28HC256J-15-ND	256K (32Kx8) CMOS EEPROM 150nS	32-PLCC	7.53	5.39	4.61
X28HC256JI-15	X28HC256JI-15-ND	256K (32Kx8) CMOS EEPROM 150nS	32-PLCC	8.60	6.16	5.27
X28HC256P-15	X28HC256P-15-ND	256K (32Kx8) CMOS EEPROM 150nS	28-Dip	10.75	7.70	6.58
X28HC256PI-15	X28HC256PI-15-ND	256K (32Kx8) CMOS EEPROM 150nS	28-Dip	11.83	8.46	7.24

POWER MANAGEMENT

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
HIP1011ACBZA	HIP1011ACBZA-ND	PCI Hot Plug Controller*	16-SOIC	6.20	4.72	3.60
HIP1011BCBZA	HIP1011BCBZA-ND	PCI Hot Plug Controller*	16-SOIC	5.90	4.49	3.43
ICL7660AIBAZA	ICL7660AIBAZA-ND	1.5V-12V CMOS Voltage Converter*	8-SOIC	2.33	1.73	1.28
ICL7665SACPA	ICL7665SACPA-ND	CMOS MPU Over/Under Volt. Detector	8-Dip	3.00	2.28	1.74
ICL7665SCPA	ICL7665SCPA-ND	CMOS MPU Over/Under Volt. Detector	8-Dip	2.75	2.09	1.60
ISL6115CB	ISL6115CB-ND	Hot-Swap Power Controller	8-SOIC	3.95	3.01	2.30
ISL6116CB	ISL6116CB-ND	Hot-Swap Power Controller	8-SOIC	4.08	3.10	2.37
ISL6123IR	ISL6123IR-ND	4-Ch. Power Sequencing Controller	24-QFN	5.73	4.54	3.64
ISL6123IRZA	ISL6123IRZA-ND	4-Ch. Power Sequencing Controller*	24-QFN	5.73	4.54	3.64
ISL6125IR	ISL6125IR-ND	4-Ch. Power Sequencing Controller	24-QFN	5.73	4.54	3.64
ISL6127IR	ISL6127IR-ND	4-Ch. Power Sequencing Controller	24-QFN	5.73	4.54	3.64
ISL6131IR	ISL6131IR-ND	4-Supply Multiple Voltage Supervisor	24-QFN	5.45	4.15	3.17
ISL6131IRZA	ISL6131IRZA-ND	4-Supply Multiple Voltage Supervisor*	24-QFN	5.45	4.15	3.17
ISL6132IR	ISL6132IR-ND	2V Supervisor Monitoring UV/OV Conditions	24-QFN	5.45	4.15	3.17
ISL6132IRZA	ISL6132IRZA-ND	2V Supervisor Monitoring UV/OV Conditions*	24-QFN	5.45	4.15	3.17
ISL6140CB	ISL6140CB-ND	Negative Voltage Hot Plug Controller	8-SOIC	4.00	3.04	2.32
ISL6140CBZ	ISL6140CBZ-ND	Negative Voltage Hot Plug Controller*	8-SOIC	4.00	3.04	2.32
ISL6141CB	ISL6141CB-ND	Negative Voltage Hot Plug Controller	8-SOIC	5.00	3.80	2.90
ISL6141CBZA	ISL6141CBZA-ND	Negative Voltage Hot Plug Controller*	8-SOIC	5.00	3.80	2.90
ISL6142CB	ISL6142CB-ND	Negative Voltage Hot Plug Controller	14-SOIC	7.18	5.68	4.55
ISL6150CB	ISL6150CB-ND	Neg. Volt. Hot Plug Controller	8-SOIC	4.00	3.04	2.32
ISL6150CBZ	ISL6150CBZ-ND	Neg. Volt. Hot Plug Controller* ***NEW!***	8-SOIC	4.00	3.04	2.32
ISL6151CB	ISL6151CB-ND	Negative Voltage Hot Plug Controller	8-SOIC	5.00	3.80	2.90
ISL6151CBZA	ISL6151CBZA-ND	Negative Voltage Hot Plug Controller*	8-SOIC	5.00	3.80	2.90
ISL6152CB	ISL6152CB-ND	Negative Voltage Hot Plug Controller	14-SOIC	7.18	5.68	4.55
ISL6173DRZA	ISL6173DRZA-ND	Dual Low Voltage Hot Swap Controller*	28-QFN	3.73	2.84	2.17
ISL6251HRZ	ISL6251HRZ-ND	Multi-Chemistry Battery Charger Controller*	28-QFN	5.99	4.74	3.80
ISL6253HAZ	ISL6253HAZ-ND	Highly Integrated Battery Charger for Notebook Computers*	28-QSOP	5.38	4.09	3.12
ISL6253HRZ	ISL6253HRZ-ND	Highly Integrated Battery Charger for Notebook Computers*	28-QFN	5.60	4.26	3.25
ISL6255HRZ	ISL6255HRZ-ND	Highly Integrated Battery Charger with Auto Power Source Selector for Notebook Computers*	28-QFN	6.20	4.90	3.93
ISL6291-1CRZ	ISL6291-1CRZ-ND	Li-Ion/Li-Pol Linear Battery Charger*	16-QFN	1.88	1.43	1.09
ISL6291-2CR	ISL6291-2CR-ND	Li-Ion/Li-Pol Linear Battery Charger	16-QFN	2.33	1.73	1.28
ISL6291-2CRZ	ISL6291-2CRZ-ND	Li-Ion/Li-Pol Linear Battery Charger*	16-QFN	1.88	1.43	1.09
ISL6292-1CR3	ISL6292-1CR3-ND	2.4V, Li-Ion/Li-Pol Battery Charger	10-DFN	2.17	1.61	1.19
ISL6292-2CR3	ISL6292-2CR3-ND	2.4V, Li-Ion/Li-Pol Battery Charger	10-DFN	2.17	1.61	1.19
ISL6292-2CR3Z	ISL6292-2CR3Z-ND	2.4V, Li-Ion/Li-Pol Battery Charger* ***NEW!***	10-DFN	2.17	1.61	1.19
ISL6292BCRZ	ISL6292BCRZ-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	2.17	1.61	1.19
ISL6293-2CRZ	ISL6293-2CRZ-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	2.50	1.90	1.45
ISL6294IRZ-T	ISL6294IRZ-CT-ND	High Input Voltage Charger*	8-DFN	2.79	2.07	1.53
ISL6294IRZ-T	ISL6294IRZ-TR-ND	High Input Voltage Charger*	8-DFN	6618.00/6,000		
ISL6298-2CR3Z	ISL6298-2CR3Z-ND	Li-Ion/Li-Pol Battery Charger*	10-DFN	2.79	2.07	1.53
ISL6298-2CR4Z	ISL6298-2CR4Z-ND	Li-Ion/Li-Pol Battery Charger*	16-QFN	2.79	2.07	1.53
ISL6299IRZ	ISL6299IRZ-ND	Li-Ion/Li-Pol Battery Charger Accepting Two Power Sources*	10-DFN	2.50	1.90	1.45

** RoHS Compliant*

REALTIME CLOCKS

RealTime Clock/Calendars with dual alarms (programmable frequency output X1227 and X1228 only), and on chip oscillator compensation. The X1227 and X1228 are also CPU Supervisor circuits with two polled alarms. The clock and alarm registers allow the clock to operate without loss of accuracy, even during read and write operations. The clock/calendar provides functionality that is controllable and readable through a set of registers. The clock, using a low-cost 32.768kHz crystal input, accurately tracks the time in seconds, minutes, hours, date, day, month and years. 2-wire interface interoperable with 512 x 8 bits of I2C EEprom. The Supervisor circuits come in 4 reset voltages.

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ISL1208IB8Z	ISL1208IB8Z-ND	Low Power RTC with Battery Backed SRAM*	8-SOIC	2.82	2.10	1.55
ISL1208IU8Z	ISL1208IU8Z-ND	Low Power RTC with Battery Backed SRAM*	8-MSOP	2.85	2.17	1.66
ISL1209IU10Z	ISL1209IU10Z-ND	Low Power RTC with Battery Backed SRAM/Event Detection*	10-MSOP	3.08	2.34	1.79
X1226S8	X1226S8-ND	RTC, Clock/Calendar with Output Freq. and 4K EE	8-SOIC	4.58	3.20	2.77
X1227S8	X1227S8-ND	RTC, 4.25-4.51V CPU Supervisor with WDT 4K EE, Reset Low	8-SOIC	6.84	4.77	4.14
X1227S8-2.7	X1227S8-2.7-ND	RTC, 2.57-2.73V CPU Supervisor with WDT 4K EE, Reset Low	8-SOIC	6.84	4.77	4.14
X1227S8-2.7A	X1227S8-2.7A-ND	RTC, 2.76-2.94V CPU Supervisor with WDT 4K EE, Reset Low	8-SOIC	6.84	4.77	4.14
X1227S8-4.5A	X1227S8-4.5A-ND	RTC, 4.49-4.77V CPU Supervisor with WDT 4K EE, Reset Low	8-SOIC	6.84	4.77	4.14
X1228S14	X1228S14-ND	RTC, 4.25-4.51V CPU Supervisor with WDT 4K EE, Reset Low	14-SOIC	7.14	4.98	4.32
X1228S14-2.7	X1228S14-2.7-ND	RTC, 2.57-2.73V CPU Supervisor with WDT 4K EE, Reset Low	14-SOIC	7.14	4.98	4.32
X1228S14-2.7A	X1228S14-2.7A-ND	RTC, 2.76-2.94V CPU Supervisor with WDT 4K EE, Reset Low	14-SOIC	7.14	4.98	4.32
X1228S14-4.5A	X1228S14-4.5A-ND	RTC, 4.49-4.77V CPU Supervisor with WDT 4K EE, Reset Low	14-SOIC	7.14	4.98	4.32

SPECIALIZED INTEGRATED CIRCUITS

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
EL7900ILCZ	EL7900ILCZ-ND	Ambient Light Photo Detect*	5-DFN	1.64	1.22	.91
X80200V20I	X80200V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X80201V20I	X80201V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X80202V20I	X80202V20I-ND	1.7V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X80203V20I	X80203V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X80204V20I	X80204V20I-ND	0.9V Power Supply Sequencer	20-TSSOP	4.90	3.42	2.97
X96012V14I	X96012V14I-ND	Sensor Conditioner with DAC	14-TSSOP	4.92	3.44	2.98

** RoHS Compliant*

SWITCHES, ARRAYS

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
DG401DYZ-T	DG401DYZ-TCT-ND	Mono CMOS Analog Switch*	16-SOIC	2.33	1.73	1.28
DG401DYZ-T	DG401DYZ-TTR-ND	Mono CMOS Analog Switch*	16-SOIC	2343.75/2,500		
DG403DYZ	DG403DYZ-ND	Mono CMOS Analog Switch*	16-SOIC	1.54	1.13	.82
DG406DYZ	DG406DYZ-ND	Single 16-Ch. CMOS Analog Mux*	28-SOIC	5.50	4.18	3.19
DG411DJZ	DG411DJZ-ND	Mono Quad SPST, CMOS Analog Switch*	16-PDip	1.71	1.27	.94
DG411DYZ	DG411DYZ-ND	Mono Quad SPST, CMOS Analog Switch*	16-SOIC	1.80	1.32	.96
DG412DYZ	DG412DYZ-ND	Mono Quad SPST, CMOS Analog Switch*	16-SOIC	1.80	1.32	.96
DG413DJZ	DG413DJZ-ND	Mono, Quad SPST, CMOS Analog Switch*	16-Dip	1.64	1.22	.91
DG441DY	DG441DYIS-ND	Mono, Quad SPST, CMOS Analog Switch	16-SOIC	1.95	1.45	1.08
DG442DY	DG442DYIS-ND	Mono, Quad SPST, CMOS Analog Switch	16-SOIC	1.95	1.45	1.08
DG444DY	DG444DYIS-ND	Mono, Quad SPST, CMOS Analog Switch	16-SOIC	1.86	1.38	1.02
DG445DY	DG445DYIS-ND	Mono, Quad SPST, CMOS Analog Switch	16-SOIC	1.95	1.45	1.08
EL4544IGZ	EL4544IGZ-ND	Triple 16x5 Differential to Single-Ended Crosspoint Switch*	356-BGA	42.75	39.90	37.05
HA456CM	HA456CM-ND	120MHz, Low Power, 8x8 Video Crosspoint Switch	44-PLCC	21.38	19.95	18.53
HFA3046B	HFA3046B-ND	NPN Ultra High Freq. Transistor Array	14-SOIC	4.75	3.61	2.76
HFA3046BZ	HFA3046BZ-ND	NPN Ultra High Freq. Transistor Array*	14-SOIC	4.75	3.61	2.76
HFA3096B	HFA3096B-ND	NPN/PNP Ultra High Freq. Transistor Array	16-SOIC	3.18	2.42	1.85
HFA3096BZ	HFA3096BZ-ND	Ultra High Freq. Transistor Array*	16-SOIC	3.18	2.42	1.85
HFA3101B	HFA3101B-ND	Gilbert Cell Multiplier, Ultra High Frequency	8-SOIC	4.28	3.25	2.48
HFA3101BZ	HFA3101BZ-ND	Gilbert Cell Multiplier Ultra High Frequency*	8-SOIC	4.28	3.25	2.48
HFA3127B	HFA3127B-ND	NPN Ultra High Freq. Transistor Array	16-SOIC	4.28	3.25	2.48
HFA3127BZ	HFA3127BZ-ND	NPN Ultra High Freq. Transistor Array*	16-SOIC	4.28	3.25	2.48
HFA3128B	HFA3128B-ND	PNP Ultra High Freq. Transistor Array	16-SOIC	4.28	3.25	2.48
HI1-5047-5	HI1-5047-5-ND	4PST CMOS Analog Switch	16-Dip	9.47	7.49	6.00
HI3-0201-5	HI3-0201-5IS-ND	Quad SPST, CMOS Analog Switch	16-Dip	3.68	2.80	2.14
HI3-0201HS-5	HI3-0201HS-5IS-ND	Quad SPST, HS, CMOS Analog Switch	16-Dip	5.54	4.39	3.52
HI3-5043-5	HI3-5043-5-ND	Dual SPDT CMOS Analog Switch	16-Dip	5.73	4.36	3.33
HI3-5043-5Z	HI3-5043-5Z-ND	Dual SPDT CMOS Analog Switch*	16-PDip	5.73	4.36	3.33
HI3-5051-5	HI3-5051-5-ND	Dual SPDT CMOS Analog Switch	16-Dip	9.99	8.57	7.60
ICL7673CPAZ	ICL7673CPAZ-ND	Auto Battery Back-Up Switch*	8-PDip	1.74	1.29	.96
ISL43L120IR	ISL43L120IR-ND	Single Supply, Dual SPST Analog Switch, N/O	8-DFN	2.95	2.19	1.62
ISL43L120IU	ISL43L120IU-ND	Single Supply, Dual SPST Analog Switch, N/O	8-MSOP	2.79	2.07	1.53
ISL43L121IR	ISL43L121IR-ND	Single Supply, Dual SPST Analog Switch, N/C	8-DFN	2.95	2.19	1.62
ISL43L121IU	ISL43L121IU-ND	Single Supply, Dual SPST Analog Switch, N/C	8-MSOP	2.79	2.07	1.53
ISL43L122IR	ISL43L122IR-ND	Single Supply, Dual SPST Analog Switch, N/O, N/C	8-DFN	2.95	2.19	1.62
ISL43L122IU	ISL43L122IU-ND	Single Supply, Dual SPST Analog Switch, N/O, N/C	8-MSOP	2.79	2.07	1.53
ISL43L210IHZ-T	ISL43L210IHZ-TCT-ND	1.1V-4.5V Single Supply SPDT Analog Switch*	SC70-6	1.61	1.19	.86
ISL43L210IHZ-T	ISL43L210IHZ-TTR-ND	1.1V-4.5V Single Supply SPDT Analog Switch*	SC70-6	1644.75/3,000		
ISL43L220IR	ISL43L220IR-ND	Low Volt., Single Supply, Dual SPDT Analog Switch	10-DFN	2.98	2.27	1.73
ISL43L220IRZ	ISL43L220IRZCT-ND	Low Volt., Single Supply, Dual SPDT Analog Switch*	10-DFN	2.98	2.27	—
ISL43L220IRZ	ISL43L220IRZTR-ND	Low Volt., Single Supply, Dual SPDT Analog Switch*	10-DFN	172.60/100		
ISL43L710IR	ISL43L710IR-ND	Single Supply, Diff. SPST Analog Switch, N/O	8-DFN	2.95	2.19	1.62
ISL43L710IU	ISL43L710IU-ND	Single Supply, Diff. SPST Analog Switch, N/O	8-MSOP	2.79	2.07	1.53
ISL43L711IR	ISL43L711IR-ND	Single Supply, Diff. SPST Analog Switch, N/C	8-DFN	2.95	2.19	1.62

** RoHS Compliant*

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intersil SWITCHES, ARRAYS *(Continued)*

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
ISL43L711IU	ISL43L711IU-ND	Single Supply, Diff. SPST Analog Switch, N/C	8-MSOP	2.79	2.07	1.53
ISL43L712IR	ISL43L712IR-ND	Single Supply, Diff. SPST Analog Switch, N/O, N/C	8-DFN	2.95	2.19	1.62
ISL43L712IU	ISL43L712IU-ND	Single Supply, Diff. SPST Analog Switch, N/O, N/C	8-MSOP	2.79	2.07	1.53
ISL8391IBZ	ISL8391IBZ-ND	Low Volt., Single and Dual Supply, Quad SPST, Analog Switch*	16-SOIC	4.18	3.18	2.43
ISL8499IRZ	ISL8499IRZ-ND	Ultra Low ON-Resistance, Single Supply, Quad SPDT Analog Switch*	16-QFN	3.10	2.36	1.80
ISL43110IB	ISL43110IB-ND	Low Volt. Single Supply, SPST, High Perf. Analog Switch	8-SOIC	1.61	1.20	.89
ISL43110IH-T	ISL43110IH-CT-ND	Low Volt. Single Supply, SPST, High Perf. Analog Switch	SOT-23-5	1.84	1.35	.98
ISL43110IH-T	ISL43110IH-TR-ND	Low Volt. Single Supply, SPST, High Perf. Analog Switch	SOT-23-5	1875.00/3,000		
ISL43111IB	ISL43111IB-ND	Low Volt. Single Supply, SPST, High Perf. Analog Switch	8-SOIC	1.61	1.20	.89
ISL43111IH-T	ISL43111IH-CT-ND	Low Volt. Single Supply, SPST, High Perf. Analog Switch	SOT-23-5	1.84	1.35	.98
ISL43111IH-T	ISL43111IH-TR-ND	Low Volt. Single Supply, SPST, High Perf. Analog Switch	SOT-23-5	1875.00/3,000		
ISL43112IB	ISL43112IB-ND	Low Volt. Dual Supply, SPST, High Perf. Analog Switch	8-SOIC	1.80	1.34	.99
ISL43112IH-T	ISL43112IH-CT-ND	Low Volt. Dual Supply, SPST, High Perf. Analog Switch	SOT-23-5	1.67	1.25	.92
ISL43113IB	ISL43113IB-ND	Low Volt. Dual Supply, SPST, High Perf. Analog Switch	8-SOIC	1.80	1.34	.99
ISL43120IH-T	ISL43120IH-CT-ND	Low Volt. Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-8	1.76	1.30	.94
ISL43120IH-T	ISL43120IH-TR-ND	Low Volt. Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-8	1797.00/3,000		
ISL43120IHZ-T	ISL43120IHZ-CT-ND	Low Volt. Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	1.76	1.30	.94
ISL43120IHZ-T	ISL43120IHZ-TR-ND	Low Volt. Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	1797.00/3,000		
ISL43121IHZ-T	ISL43121IHZ-CT-ND	Low Volt. Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	1.76	1.30	.94
ISL43121IHZ-T	ISL43121IHZ-TR-ND	Low Volt. Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-8	1797.00/3,000		
ISL43140IB	ISL43140IB-ND	Low Volt. Quad SPST Analog Switch	16-SOIC	1.71	1.27	.94
ISL43143IR	ISL43143IR-ND	Low Voltage Quad SPST High Perf. Analog Switch	16-QFN	2.02	1.50	1.11
ISL43144IR	ISL43144IR-ND	Low Voltage Quad SPST High Perf. Analog Switch	16-QFN	2.02	1.50	1.11
ISL43210IH-T	ISL43210IH-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6	1.76	1.30	.94
ISL43210IH-T	ISL43210IH-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6	1797.00/3,000		
ISL43210IHZ-T	ISL43210IHZ-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-6	1.76	1.30	.94
ISL43210IHZ-T	ISL43210IHZ-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	SOT-23-6	1797.00/3,000		
ISL43231IR	ISL43231IR-ND	Low Voltage Single and Dual Supply, Triple SPDT Analog Switch	20-QFN	2.95	2.19	1.62
ISL43240IAZ	ISL43240IAZ-ND	Low Volt., Single and Dual Supply, Quad SPDT High Perf., Analog Switch*	20-SSOP	3.35	2.55	1.95
ISL43240IR	ISL43240IR-ND	Low Voltage Single and Dual Supply, Quad SPDT, High Perf. Analog Switch	20-QFN	3.50	2.66	2.03
ISL43410IR	ISL43410IR-ND	Low Voltage Single Supply, DPDT High Perf. Analog Switch	16-QFN	2.29	1.71	1.26
ISL43640IR	ISL43640IR-ND	Low Voltage, Single Supply, 4-to-1 Mux, High Perf. Analog Switch	16-QFN	2.29	1.71	1.26
ISL83699IV	ISL83699IV-ND	Low Voltage, Single Supply, Quad SPDT Analog Switch	16-TSSOP	2.98	2.27	1.73
ISL84053IAZ	ISL84053IAZ-ND	Low Volt., Single and Dual Supply, Triple SPDT, Analog Switch*	16-SSOP	1.89	1.41	1.04
ISL84053IBZ	ISL84053IBZ-ND	Low Volt., Single and Dual Supply, Triple SPDT, Analog Switch*	16-SOIC	1.74	1.29	.96
ISL84514IH-T	ISL84514IH-CT-ND	Low Voltage Single Supply, SPST Analog Switch	SOT-23-5	1.77	1.32	.97
ISL84515IH-T	ISL84515IH-CT-ND	Low Voltage Single Supply, SPST Analog Switch	SOT-23-5	1.77	1.32	.97
ISL84515IH-T	ISL84515IH-TR-ND	Low Voltage Single Supply, SPST Analog Switch	SOT-23-5	2139.00/3,000		
ISL84516IH-T	ISL84516IH-CT-ND	Low Voltage Dual Supply, SPST Analog Switch	SOT-23-5	1.77	1.32	.97
ISL84516IH-T	ISL84516IH-TR-ND	Low Voltage Dual Supply, SPST Analog Switch	SOT-23-5	2139.00/3,000		
ISL84517IH-T	ISL84517IH-CT-ND	Low Voltage Dual Supply, SPST Analog Switch	SOT-23-5	1.77	1.32	.97
ISL84517IH-T	ISL84517IH-TR-ND	Low Voltage Dual Supply, SPST Analog Switch	SOT-23-5	2139.00/3,000		
ISL84522IVZ	ISL84522IVZ-ND	Low Volt., Single and Dual Supply, Quad SPST, Analog Switch*	16-TSSOP	2.20	1.64	1.21
ISL84544CPZ	ISL84544CPZ-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch*	8-Dip	1.76	1.30	.94
ISL84544IH-T	ISL84544IH-CT-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6	1.71	1.27	.94
ISL84544IH-T	ISL84544IH-TR-ND	Low Voltage Single Supply, Dual SPST, SPDT Analog Switch	SOT-23-6	2064.00/3,000		
ISL84684IR	ISL84684IR-ND	Ultra Low ON-Resistance, Single Supply, Dual SPDT Analog Switch	10-DFN	2.48	1.84	1.36
ISL84714IH-T	ISL84714IH-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPDT Analog Switch	SC70-6	1.61	1.19	.86
ISL84714IH-T	ISL84714IH-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPDT Analog Switch	SC70-6	1644.00/3,000		
ISL84714IHZ-T	ISL84714IHZ-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPDT Analog Switch*	SC70-6	1.61	1.19	.86
ISL84714IHZ-T	ISL84714IHZ-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPDT Analog Switch*	SC70-6	1644.00/3,000		
ISL84715IH-T	ISL84715IH-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch	SC70-5	1.61	1.19	.86
ISL84715IH-T	ISL84715IH-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch	SC70-5	1644.00/3,000		
ISL84715IHZ-T	ISL84715IHZ-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch*	SC70-5	1.61	1.19	.86
ISL84715IHZ-T	ISL84715IHZ-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch*	SC70-5	1644.00/3,000		
ISL84716IH-T	ISL84716IH-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch	SC70-5	1.61	1.19	.86
ISL84716IH-T	ISL84716IH-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch	SC70-5	1644.00/3,000		
ISL84716IHZ-T	ISL84716IHZ-CT-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch*	SC70-5	1.61	1.19	.86
ISL84716IHZ-T	ISL84716IHZ-TR-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, SPST Analog Switch*	SC70-5	1644.00/3,000		
ISL84780IRZ	ISL84780IRZ-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, Quad 2:1 Analog Mux*	16-QFN	3.10	2.36	1.80
ISL84780IVZ	ISL84780IVZ-ND	Ultra Low ON-Resistance, Low Voltage, Single Supply, Quad 2:1 Analog Mux*	16-TSSOP	2.98	2.27	1.73
ISL84781IRZ	ISL84781IRZ-ND	Ultra Low ON-Resistance, Low Volt., Single Supply, 8:1 Analog Mux*	16-QFN	3.10	2.36	1.80

* ***RoHS Compliant***

intersil VIDEO COMMUNICATION

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
EL1881CN	EL1881CN-ND	LP Video Sync. Separator	8-Dip	2.64	1.96	1.45
EL1881CS	EL1881CS-ND	LP Video Sync. Separator	8-SOIC	2.64	1.96	1.45
EL1881CSZ	EL1881CSZ-ND	LP Video Sync. Separator*	8-SOIC	2.64	1.96	1.45
EL1883IS	EL1883IS-ND	Video Sync. Separator	8-SOIC	3.01	2.24	1.65
EL1883ISZ	EL1883ISZ-ND	Video Sync. Separator*	8-SOIC	2.43	1.85	1.41
EL4511CU	EL4511CU-ND	Super Sync. Separator	24-QSOP	7.50	5.93	4.75
EL4511CUZ	EL4511CUZ-ND	Super Sync. Separator*	24-QSOP	7.50	5.93	4.75
EL4581CN	EL4581CN-ND	Sync. Separator, 50% Slice, S-H, Filter	8-Dip	6.13	4.66	3.56
EL4581CS	EL4581CS-ND	Sync. Separator, 50% Slice, S-H, Filter	8-SOIC	6.13	4.66	3.56
EL4581CSZ-T7	EL4581CSZ-T7CT-ND	Sync. Separator, 50% Slice, S-H, Filter* ***NEW!***	8-SOIC	5.36	4.24	3.40
EL4581CSZ-T7	EL4581CSZ-T7TR-ND	Sync. Separator, 50% Slice, S-H, Filter* ***NEW!***	8-SOIC	3162.00/1,000		
EL4583AISZ	EL4583AISZ-ND	Sync. Separator, 50% Slice, S-H, Filter*	16-SOIC	8.82	6.98	5.59
EL4583CN	EL4583CN-ND	Sync. Separator, 50% Slice, S-H, Filter	16-Dip	8.30	6.56	5.26
EL4583CS	EL4583CS-ND	Sync. Separator, 50% Slice, S-H, Filter	16-SOIC	8.82	6.98	5.59
EL4583CSZ	EL4583CSZ-ND	Sync. Separator, 50% Slice, S-H, Filter*	16-SOIC	8.82	6.98	5.59
EL4584CN	EL4584CN-ND	36MHz General Purpose PLL	16-Dip	10.40	8.22	6.59
EL4584CS	EL4584CS-ND	36MHz General Purpose PLL	16-SOIC	9.10	7.80	6.92
EL4584CSZ	EL4584CSZ-ND	36MHz General Purpose PLL*	16-SOIC	9.10	7.80	6.92
EL4585CS	EL4585CS-ND	36MHz General Purpose PLL	16-SOIC	9.10	7.80	6.92
EL4585CSZ	EL4585CSZ-ND	36MHz General Purpose PLL*	16-SOIC	9.10	7.80	6.92
EL9115ILZ	EL9115ILZ-ND	Triple Analog Video Delay Line*	20-QFN	33.09	30.89	28.68
HA4314BCB	HA4314BCB-ND	400MHz, 4x1 Video Crosspoint Switch	14-SOIC	4.63	3.52	2.69
HA4344BCB	HA4344BCB-ND	350MHz, 4x1 Video Crosspoint Switch	16-SOIC	5.78	4.39	3.35
ISL59885ISZ	ISL59885ISZ-ND	Auto-Adj. Sync. Separator*	8-SOIC	3.33	2.53	1.93

* ***RoHS Compliant***

intersil VOLTAGE REFERENCE

Intersil Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
EL5825IRZ	EL5825IRZ-ND	8-Ch. TFT-LCD Reference Voltage Generator*	24-TSSOP	5.84	4.62	3.70
X60008CIS8-50	X60008CIS8-50-ND	Precision 5V, 5ppm FGA™ Volt. Ref.	8-SOIC	7.48	5.91	4.74
X60008DIS8-50	X60008DIS8-50-ND	Precision 5V, 10ppm FGA™ Volt. Ref.	8-SOIC	5.29	4.19	3.36

* ***RoHS Compliant***

National Semiconductor™ DATA COMMUNICATIONS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CP3BT10K38-ND	24MHz, RISC with 256K Flash, Bluetooth (LLC), USB1.1	48-CSP	10.12	8.67	7.69
CP3BT13K38-ND	24MHz, RISC with 256K Flash, Bluetooth (LLC), CAN	48-CSP	16.80	15.68	14.56
CP3UB17K38CT-ND	Reprogrammable Connectivity Processor with USB Interface	48-CSP	16.80	15.68	14.56
CP3UB17K38TR-ND	Reprogrammable Connectivity Processor with USB Interface	48-CSP	3556.00/250		

National Semiconductor™ LINEAR SERIES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
CGS74CT2524M-ND	1-to-4 Minimum Skew (300ps) Clock Driver	8-SOIC	2.42	1.80	1.33
CLC001AJE-ND	Serial Digital Cable Driver	8-SOIC	4.75	3.61	2.76
CLC005AJE-ND	ITU-T G.703 Cable Driver	8-SOIC	10.61	9.09	8.06
CLC006AJE-ND	Serial Digital Cable Driver with Adjustable Outputs	8-SOIC	9.87	7.81	6.26
CLC007AJE-ND	Serial Digital Cable Driver	8-SOIC	8.78	6.94	5.56
CLC011BCQ-ND	Serial Digital Video Decoder	28-PLCC	12.34	10.58	9.38
CLC012AJE-ND	Adaptive Cable Equalizer for ITU-T G.703 Data Recovery	14-SOIC	15.60	14.56	13.52
CLC014AJE-ND	Adaptive Cable Equalizer for High-Speed Recovery	14-SOIC	17.29	14.82	13.15
CLC016ACQ-ND	Data Retiming PLL with Automatic Rate Selection	28-PLCC	24.75	23.10	21.45

* ***RoHS Compliant***

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CLC016AJQ-ND	Data Retiming PLL with Automatic Rate Selection	28-PLCC	27.60	25.76	23.92
CLC016MTC-ND	Data Retiming PLL with Automatic Rate Selection	28-TSSOP	24.75	23.10	21.45
CLC018AJVJQ-ND	8 x 8 Digital Cross Point Switch	68-PQFP	26.70	24.92	23.14
CLC021AVGZ-3.3-ND	SMPTE 259M Digital Video Serializer with EDH Generation/Insertion	44-PQFP	37.05	34.58	32.11
CLC030VEC-ND	SMPTE 292M/259M Digital Video Serializer with Video and Ancilliary Data FIFOs and Integrated Cable Driver	64-TQFP	37.05	34.58	32.11
CLC031AVEC-ND	SMPTE 292M/259M Digital Video Deserializer	64-TQFP	37.05	34.58	32.11
LMH0034MA-ND	SMPTE 292M/259M Adaptive Cable Equalizer ***NEW!***	16-SOIC	39.90	37.24	34.58
CLC5526MSA-ND	Digital Variable Gain Amp ***NEW!***	20-SSOP	8.30	6.56	5.26
CLC5903SM-ND	Dual Digital Tuner/AGC	128-FBGA	27.15	25.34	23.53
CLC5903VLA-ND	Dual Digital Tuner/AGC	128-PQFP	27.15	25.34	23.53
CLC730027-ND	Eval Board Designed to Aid Monolithic Amplifier Characterization for SOIC Packages	—	6.30	4.98	3.99
CLC730031-ND	Eval Board for Quad Op Amps in SOIC Packages	—	6.30	4.98	3.99
CLC730033-ND	Eval Board for 14-SOIC Packages	—	6.30	4.98	3.99
CLC730036-ND	Eval Board Designed to Aid in the Characterization of Dual Monolithic Amplifiers in SOIC Packages	—	6.30	4.98	3.99
CLC730066-ND	Evaluation Board for CLC5523	—	6.30	4.98	3.99
CLC730116-ND	Eval Board Designed to Aid in the Characterization of 6-Pin Monolithic Amps in SOT-23-6 Packages	—	6.30	4.98	3.99
CLC730121-ND	Eval Board Designed to Aid in the Characterization of 8-Pin Dual Op Amps in PSOP Packages	—	6.30	4.98	3.99
CLC730123-ND	Eval Board Designed to Aid in the Characterization of 8-Pin Dual Op Amps in MSOP Packages	—	6.30	4.98	3.99
CLC730131-ND	Quad TSSOP Op Amp Evaluation Board	—	6.30	4.98	3.99
CLC730132-ND	Quad TSSOP High Speed Buffer Evaluation Board	—	6.30	4.80	3.99
CLC730136-ND	Single SOT-23 High Speed Buffer Evaluation Board	—	6.30	4.98	3.99
CLC730145-ND	Quad SOIC High Speed Buffer Evaluation Board	—	6.30	4.80	3.99
CLC730216-ND	Single SOT High Speed Op Amp Evaluation Board	—	6.30	4.98	3.99
CLC730227-ND	Single SOIC High Speed Op Amp Evaluation Board	—	6.30	4.98	3.99
CLC730231-ND	Quad SOIC High Speed Op Amp Evaluation Board	—	6.30	4.80	3.99
CLC730245-ND	Single SOIC High Speed Buffer Evaluation Board	—	6.30	4.98	3.99
COP8AME9EMW8-ND	8-Bit Microcontroller with 8K Flash, Temperature Sensor 10-Bit A/D	28-SOIC	9.26	7.94	7.04
COP8CBE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D	48-TSSOP	7.08	5.60	4.49
COP8CBR9HLQ8CT-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	44-LLP	9.99	8.57	7.60
COP8CBR9HLQ8TR-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	44-LLP		17344.13/2,500	
COP8CBR9HVA8-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	44-PLCC	9.36	8.03	7.12
COP8CBR9IMT8-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	48-TSSOP	10.27	8.12	6.51
COP8CCE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D	48-TSSOP	7.08	5.60	4.49
COP8CCR9IMT7-ND	8-Bit Microcontroller with 32K Flash, 10-Bit A/D	48-TSSOP	10.27	8.12	6.51
COP8CDE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D	48-TSSOP	5.73	4.54	3.64
COP8CFE9HVA9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D	44-PLCC	5.29	4.19	3.36
COP8CFE9IMT9-ND	8-Bit Microcontroller with 8K Flash, 10-Bit A/D	48-TSSOP	5.48	4.34	3.48
COP8SAA7SLB8CT-ND	8-Bit OTP Microcontroller 1K POR	28-Laminate CSP	6.38	5.05	4.05
COP8SAA7SLB8TR-ND	8-Bit OTP Microcontroller 1K POR	28-Laminate CSP		9272.00/2,500	
COP8SAA7SLB9CT-ND	8-Bit OTP Microcontroller 1K POR	28-Laminate CSP	6.20	4.90	3.93
COP8SAA7SLB9TR-ND	8-Bit OTP Microcontroller 1K POR	28-Laminate CSP		8997.50/2,500	
COP8SAB7SLB8CT-ND	8-Bit OTP Microcontroller 2K POR	28-Laminate CSP	5.99	4.74	3.80
COP8SAB7SLB8TR-ND	8-Bit OTP Microcontroller 2K POR	28-Laminate CSP		8692.50/2,500	
COP8SAB7SLB9CT-ND	8-Bit OTP Microcontroller 2K POR	28-Laminate CSP	6.20	4.90	3.93
COP8SAB7SLB9TR-ND	8-Bit OTP Microcontroller 2K POR	28-Laminate CSP		8997.50/2,500	
COP8SAB720M8-ND	8-Bit OTP Microcontroller 2K POR	20-SOIC	6.20	4.90	3.93
COP8SAB728N8-ND	8-Bit OTP Microcontroller 2K POR	28-Dip	6.28	4.97	3.98
COP8SAC7SLB8CT-ND	8-Bit OTP Microcontroller 4K POR	28-Laminate CSP	7.58	6.00	4.81
COP8SAC7SLB8TR-ND	8-Bit OTP Microcontroller 4K POR	28-Laminate CSP		11010.50/2,500	
COP8SAC7SLB9CT-ND	8-Bit OTP Microcontroller 4K POR	28-Laminate CSP	7.39	5.85	4.69
COP8SAC7SLB9TR-ND	8-Bit OTP Microcontroller 4K POR	28-Laminate CSP		10736.00/2,500	
COP8SDE9IMT9-ND	8-Bit Microcontroller with 8K Flash	48-TSSOP	5.40	4.27	3.42
COP8SGE7VEJ8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART	44-LQFP	9.22	7.29	5.84
COP8SGE728M8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART	28-SOIC	6.11	4.84	3.88
COP8SGE728N8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART	28-Dip	6.62	5.23	4.19
COP8SGE744V8-ND	8-Bit OTP Microcontroller, 8K Memory, 2 Comparators USART	44-PLCC	7.94	6.28	5.03
COP8SGR7HLQ8CT-ND	8-Bit OTP Microcontroller with 32K Flash	44-LLP	9.77	8.37	7.43
COP8SGR7HLQ8TR-ND	8-Bit OTP Microcontroller with 32K Flash	44-LLP		16949.25/2,500	
COP8SGR728M8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comparators USART	28-SOIC	5.40	4.27	3.42
COP8SGR728N8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comparators USART	28-Dip	6.62	5.23	4.19
COP8SGR744V8-ND	8-Bit OTP Microcontroller, 32K Memory, 2 Comparators USART	44-PLCC	7.35	5.81	4.66
CR16MAS9VJE9-ND	16-Bit, CAN CompactRISC™ Flash Microcontroller	80-PQFP	18.00	16.80	15.60
CR16MCS9VJE9-ND	16-Bit, CAN CompactRISC™ Flash Microcontroller	80-PQFP	18.00	16.80	15.60
LF156H-ND	Mono JFET In Op Amp	TO-5	5.98	4.55	3.47
LF256H-ND	Wideband JFET Op Amp	TO-5	5.15	3.92	2.99
LF298M-ND	Monolithic Sample and Hold Circuit	14-SOIC	3.10	2.36	1.80
LF347BN-ND	Quad Bi-FET Op Amp	14-Dip	2.21	1.65	1.22
LF347M-ND	Quad Bi-FET Op Amp	14-SOIC	2.14	1.59	1.18
LF347MXTR-ND	Quad Bi-FET Op Amp	14-SOIC		2153.13/2,500	
LF347NNS-ND	Quad Bi-FET Op Amp	14-Dip	2.16	1.61	1.19
LF353M-ND	Wideband Dual JFET Op Amp	8-SOIC	1.21	.89	.65
LF353MXCT-ND	Wideband Dual JFET Op Amp ***NEW!***	8-SOIC	1.08	.78	.57
LF353MXTR-ND	Wideband Dual JFET Op Amp	8-SOIC		1029.56/2,500	
LF353NNS-ND	Wideband Dual JFET Input Op Amp	8-Dip	1.34	.99	.72
LF356H-ND	Monolithic JFET Input Op Amp	TO-5	4.55	3.46	2.64
LF356M-ND	Monolithic JFET Input Op Amp	8-SOIC	1.11	.81	.59
LF356N-ND	Monolithic JFET Input Op Amp	8-Dip	1.12	.82	.60
LF398AN-ND	Monolithic Sample and Hold Circuit	8-Dip	3.05	2.32	1.77
LF398H-ND	Monolithic Sample and Hold Circuit	TO-5	5.83	4.43	3.38
LF398M-ND	Monolithic Sample and Hold Circuit	14-SOIC	2.06	1.53	1.13
LF398N-ND	Monolithic Sample and Hold Circuit	8-Dip	2.11	1.57	1.16
LF411ACH-ND	Low Offset Low Drift JFET Input Op Amp	TO-5	8.57	6.78	5.43
LF411ACN-ND	Low Offset Low Drift JFET Input Op Amp	8-Dip	4.80	3.65	2.79
LF411CN-ND	Low Offset Low Drift JFET Input Op Amp	8-Dip	1.63	1.20	.87
LF412ACN-ND	Low Offset Low Drift JFET Dual Op Amp	8-Dip	4.98	3.79	2.89
LF412CN-ND	Low Offset Low Drift JFET Dual Op Amp	8-Dip	1.66	1.24	.92
LF412MH-ND	Low Offset Low Drift JFET Dual Op Amp	TO-5	9.07	7.18	5.75
LF442ACN-ND	Dual Low Power JFET Op Amp	8-Dip	5.63	4.28	3.27
LF442AMH-ND	Dual Low Power JFET Op Amp	TO-5	17.40	16.24	15.08

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LF442CN-ND	Dual Low Power JFET Op Amp	8-Dip	1.76	1.29	.94
LF444ACN-ND	Quad Low Power JFET Op Amp	14-Dip	3.30	2.51	1.92
LF444CM-ND	Quad Low Power JFET Op Amp	14-SOIC	1.93	1.43	1.06
LF444CN-ND	Quad Low Power JFET Op Amp	14-Dip	1.98	1.47	1.09
LM10CH-ND	Op Amp and Voltage Reference	TO-5	6.15	4.87	3.90
LM10CLN-ND	Op Amp and Voltage Reference	8-Dip	2.70	2.06	1.57
LM10CN-ND	Op Amp and Voltage Reference	8-Dip	2.98	2.27	1.73
LM10CWM-ND	Op Amp and Voltage Reference	14-SOIC	2.83	2.15	1.64
LM12CLK-ND	80W Power Op Amp 4-Pin	TO-3	20.70	19.32	17.94
LM12H458CIV-ND	12-Bit + Sign DAS with Self-Calibration	44-PLCC	20.55	19.18	17.81
LM12H458CIVF-ND	12-Bit + Sign DAS with Self-Calibration	44-PQFP	20.55	19.18	17.81
LM12L458CIV-ND	12-Bit + Sign DAS with Self-Calibration	44-PLCC	20.55	19.18	17.81
LM19CIZ-ND	2.4V, 10µA Temperature Sensor, -55° to 130°C	TO-92	1.11	.81	.59
LM20BIM7CT-ND	Micro SMD Temperature Sensor, ±2.5°C	SC-70-5	1.12	.82	.60
LM20BIM7TR-ND	Micro SMD Temperature Sensor, ±2.5°C	SC-70-5		387.40/1,000	
LM20CIM7CT-ND	Micro SMD Temperature Sensor, ±5°C	SC-70-5	.96	.71	.51
LM20CIM7TR-ND	Micro SMD Temperature Sensor, ±5°C	SC-70-5		331.50/1,000	
LM20SIBPCT-ND	Micro SMD Temperature Sensor	4-microSMD	.96	.71	.51
LM20SIBPTR-ND	Micro SMD Temperature Sensor	4-microSMD		95.63/250	
LM26CIM5-NPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-NPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-PHACT-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5	1.43	1.05	.76
LM26CIM5-PHATR-ND	±3°C Accurate, Factory Preset Thermostat*	SOT-23-5		494.00/1,000	
LM26CIM5-RPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-RPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-SHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-SHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-SPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-SPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-TPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-TPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-VHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-VHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-VPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-VPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-XHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-XHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-XPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-XPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-YHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-YHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-YPACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-YPATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM26CIM5-ZHACT-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5	1.43	1.05	.76
LM26CIM5-ZHATR-ND	±3°C Accurate, Factory Preset Thermostat	SOT-23-5		494.00/1,000	
LM27CIM5-1HJCT-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5	2.33	1.73	1.28
LM27CIM5-1HJTR-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5		961.28/1,000	
LM27CIM5-2HJCT-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5	2.33	1.73	1.28
LM27CIM5-2HJTR-ND	±3°C Accurate, 120°C-150°C Factory Preset Thermostat	SOT-23-5		961.28/1,000	
LM32CIMT-ND	Dual Thermal Diode Temperature Sensor	14-TSSOP	3.10	2.36	1.80
LM34AH-ND	Precision Fahrenheit Temperature Sensor, -50°F to 300°F	TO-46	13.86	11.88	10.54
LM34CAH-ND	Precision Fahrenheit Temperature Sensor, -40°F to 230°F	TO-46	11.55	9.90	8.78
LM34CAZ-ND	Precision Fahrenheit Temperature Sensor, -40°F to 230°F	TO-92	7.14	5.65	4.53
LM34CH-ND	Precision Fahrenheit Temperature Sensor, -40°F to 230°F	TO-46	9.52	8.16	7.24
LM34CZ-ND	Precision Fahrenheit Temperature Sensor, -40°F to 230°F	TO-92	5.54	4.39	3.52
LM34DM-ND	Precision Fahrenheit Temperature Sensor, +32°F to 212°F	8-SOIC	2.23	1.66	1.23
LM35DT-ND	Precision Celsius Temperature Sensor	TO-220	2.82	2.10	1.55
LM34DZ-ND	Precision Fahrenheit Temperature Sensor, +32°F to 212°F	TO-92	2.51	1.87	1.38
LM35AH-ND	Precision Celsius Temperature Sensor, -55°C to 150°C	TO-46	16.80	15.68	14.56
LM35CAH-ND	Precision Celsius Temperature Sensor, -40°C to 110°C	TO-46	11.55	9.90	8.78
LM35CAZ-ND	Precision Celsius Temperature Sensor, -40°C to 110°C	TO-92	5.40	4.27	3.42
LM35CH-ND	Precision Celsius Temperature Sensor, -40°C to 110°C	TO-46	9.03	7.74	6.87
LM35CZ-ND	Precision Celsius Temperature Sensor, -40°C to 110°C	TO-92	5.28	4.01	3.06
LM35DH-ND	Precision Celsius Temperature Sensor, 0°C to 100°C	TO-46	5.73	4.54	3.64
LM35DM-ND	Precision Celsius Temperature Sensor, 0°C to 100°C	8-SOIC	1.82	1.35	1.00
LM35DMXCT-ND	Precision Celsius Temp. Sensor, 0°C to 100°C ***NEW!***	8-SOIC	1.80	1.34	.99
LM35DMXTR-ND	Precision Celsius Temp. Sensor, 0°C to 100°C	8-SOIC		1834.38/2,500	
LM35DZ-ND	Precision Celsius Temperature Sensor, 0°C to 100°C	TO-92	1.74	1.30	.96
LM40CIMT-ND	Hardware Monitor with Dual Thermal Diodes and SensorPath™ Bus	14-TSSOP	3.93	2.99	2.28
LM41CIMT-ND	Hardware Monitor with Thermal Diode Inputs and SensorPath™ Bus	14-TSSOP	3.80	2.89	2.21
LM45BIM3CT-ND	Precision Celsius Temperature Sensor	SOT-23	1.58	1.18	.87
LM45BIM3TR-ND	Precision Celsius Temperature Sensor	SOT-23		652.80/1,000	
LM45CIM3CT-ND	Precision Celsius Temperature Sensor	SOT-23	1.01	.75	.54
LM45CIM3TR-ND	Precision Celsius Temperature Sensor	SOT-23		351.00/1,000	
LM50BIM3CT-ND	Single Supply Centigrade Temperature Sensor	SOT-23	1.61	1.20	.89
LM50BIM3TR-ND	Single Supply Centigrade Temperature Sensor	SOT-23		665.60/1,000	
LM50CIM3CT-ND	Single Supply Centigrade Temperature Sensor	SOT-23	1.09	.80	.58
LM50CIM3TR-ND	Single Supply Centigrade Temperature Sensor	SOT-23		377.00/1,000	
LM56BIM-ND	Dual Output Low Power Thermostat	8-SOIC	2.23	1.66	1.23
LM56BIMMCT-ND	Dual Output Low Power Thermostat	8-MSOP	2.64	1.96	1.45
LM56BIMMTR-ND	Dual Output Low Power Thermostat	8-MSOP		1088.00/1,000	
LM56CIM-ND	Dual Output Low Power Thermostat	8-SOIC	1.67	1.25	.92
LM56CIMMCT-ND	Dual Output Low Power Thermostat	8-MSOP	2.02	1.50	1.11
LM56CIMMTR-ND	Dual Output Low Power Thermostat	8-MSOP		832.00/1,000	
LM60BIM3CT-ND	2.7V, Temperature Sensor, -40°C to 125°C	SOT-23	1.28	.94	.68
LM60BIM3TR-ND	2.7V, Temperature Sensor, -40°C to 125°C	SOT-23		442.00/1,000	
LM60BIZ-ND	2.7V, Temperature Sensor, -40°C to 125°C	TO-92-3	1.16	.86	.62
LM60CIM3CT-ND	2.7V, Temperature Sensor, -40°C to 125°C	SOT-23	1.08	.78	.57
LM60CIM3TR-ND	2.7V, Temperature Sensor, -40°C to 125°C	SOT-23		336.00/1,000	
LM60CIZ-ND	2.7V, Temperature Sensor, -40°C to 125°C	TO-92	.90	.65	.47
LM61BIM3CT-ND	2.7V, Temperature Sensor, -30°C to 100°C	SOT-23	1.28	.94	.68
LM61BIM3TR-ND	2.7V, Temperature Sensor, -30°C to 100°C	SOT-23		442.00/1,000	
LM61CIM3CT-ND	2.7V, Temperature Sensor, -30°C to 100°C	SOT-23	1.08	.78	.57
LM61CIM3TR-ND	2.7V, Temperature Sensor, -30°C to 100°C	SOT-23		336.00/1,000	
LM61CIZ-ND	2.7V, Temperature Sensor, -30°C to 100°C	TO-92	.90	.65	.47
LM62BIM3CT-ND	2.7V, Temperature Sensor, 0°C to 100°C	SOT-23	1.28	.94	.68
LM62BIM3TR-ND	2.7V, Temperature Sensor, 0°C to 100°C	SOT-23		442.00/1,000	
LM62CIM3CT-ND	2.7V, Temperature Sensor, 0°C to 100°C	SOT-23	1.07	.78	.56
LM62CIM3TR-ND	2.7V, Temperature Sensor, 0°C to 100°C	SOT-23		333.20/1,000	
LM63CIMA-ND	Digital Temperature Sensor with Integrated Fan Control	8-SOIC	2.63	2.00	1.53

** RoHS Compliant*

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM63DIMA-ND	Digital Temperature Sensor with Integrated Fan Control	8-SOIC	3.09	2.30	1.70
LM70CILD-3CT-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP	2.00	1.49	1.10
LM70CILD-3TR-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP	826.88/1,000		
LM70CILD-5CT-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP	2.00	1.49	1.10
LM70CILD-5TR-ND	10-Bit Plus Sign Digital Temperature Sensor	8-LLP	826.88/1,000		
LM70CIMM-3CT-ND	10-Bit Plus Sign Digital Temperature Sensor	8-MSOP	1.86	1.38	1.02
LM70CIMM-3TR-ND	10-Bit Plus Sign Digital Temperature Sensor	8-MSOP	766.72/1,000		
LM70CIMM-5CT-ND	SPI/Microwire™ 10-Bit plus Digital Temperature Sensor	8-MSOP	1.86	1.38	1.02
LM70CIMM-5TR-ND	SPI/Microwire™ 10-Bit plus Digital Temperature Sensor	8-MSOP	766.72/1,000		
LM70CIMMX-3CT-ND	10-Bit plus Sign Digital Temperature Sensor	8-MSOP	1.86	1.38	1.02
LM70CIMMX-3TR-ND	10-Bit plus Sign Digital Temperature Sensor	8-MSOP	2620.63/3,500		
LM71CIMFCT-ND	SPI/Microwire™ 13-Bit plus Sign Temperature Sensor	SOT-23-5	2.06	1.53	1.14
LM71CIMFTR-ND	SPI/Microwire™ 13-Bit plus Sign Temperature Sensor	SOT-23-5	851.20/1,000		
LM71CISDCT-ND	SPI/Microwire™ 13-Bit plus Sign Temperature Sensor	6-LLP	2.06	1.53	1.14
LM71CISDTR-ND	SPI/Microwire™ 13-Bit plus Sign Temperature Sensor	6-LLP	851.20/1,000		
LM73CIMK-0CT-ND	2.7V, 11-to-14 Bit Digital Temperature Sensor ***NEW!***	6-TSOT	2.06	1.53	1.14
LM73CIMK-0TR-ND	2.7V, 11-to-14 Bit Digital Temperature Sensor ***NEW!***	6-TSOT	851.20/1,000		
LM74CIBP-3CT-ND	3V, 12-Bit Digital Temperature Sensor	5-microSMD	2.24	1.67	1.23
LM74CIBP-3TR-ND	3V, 12-Bit Digital Temperature Sensor	5-microSMD	925.44/1,000		
LM74CIBP-5CT-ND	5V, 12-Bit Digital Temperature Sensor	5-microSMD	2.24	1.67	1.23
LM74CIBP-5TR-ND	5V, 12-Bit Digital Temperature Sensor	5-microSMD	925.44/1,000		
LM74CIM-3-ND	3V, 12-Bit Digital Temperature Sensor	8-SOIC	1.92	1.43	1.06
LM74CIM-5-ND	5V, 12-Bit Digital Temperature Sensor	8-SOIC	1.92	1.43	1.06
LM75CIM-3-ND	3V, Digital Temperature Sensor	8-SOIC	2.11	1.57	1.16
LM75CIM-5-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-SOIC	2.11	1.57	1.16
LM75CIMX-5TR-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-SOIC	2125.00/2,500		
LM75CIMM-3CT-ND	3.3V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP	2.17	1.61	1.19
LM75CIMM-3TR-ND	3.3V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP	896.00/1,000		
LM75CIMM-5CT-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP	2.17	1.61	1.19
LM75CIMM-5TR-ND	5V, Digital Temperature Sensor and Thermal Watchdog with Two-Wire Interface	8-MSOP	896.00/1,000		
LM76CHM-5-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	2.90	2.16	1.59
LM77CIM-3-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	2.11	1.57	1.16
LM77CIM-5-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	2.11	1.57	1.16
LM77CIMM-3CT-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP	2.11	1.57	1.16
LM77CIMM-3TR-ND	3V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP	870.40/1,000		
LM77CIMM-5CT-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP	2.11	1.57	1.16
LM77CIMM-5TR-ND	5V, Digital Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-MSOP	870.40/1,000		
LM78L05ACM-ND	5V, 100mA Positive Regulator	8-SOIC	.73	.53	.39
LM78L05ACMXCT-ND	5V, 100mA Positive Regulator	8-SOIC	.68	.49	.36
LM78L05ACMXTR-ND	5V, 100mA Positive Regulator	8-SOIC	538.65/2,500		
LM78L05ACZNS-ND	5V, 100mA Positive Regulator	TO-92	.73	.53	.39
LM78L05IBPCT-ND	3-Terminal Positive Regulator	8-microSMD	1.10	.81	.59
LM78L05IBPTR-ND	3-Terminal Positive Regulator	8-microSMD	110.25/250		
LM78L12ACM-ND	12V, 100mA Positive Regulator	8-SOIC	.73	.53	.39
LM78L12ACMXTR-ND	12V, 100mA Positive Regulator	8-SOIC	538.65/2,500		
LM78L12ACZ-ND	12V, 100mA Voltage Regulator	TO-92	.73	.53	.39
LM78L15ACM-ND	15V, 100mA Positive Regulator	8-SOIC	.73	.53	.39
LM78L15ACMXCT-ND	15V, 100mA Positive Regulator ***NEW!***	8-SOIC	.68	.49	.36
LM78L15ACMXTR-ND	15V, 100mA Positive Regulator	8-SOIC	538.65/2,500		
LM78L15ACZ-ND	15V, 100mA Positive Regulator	TO-92	.73	.53	.39
LM78L62ACZ-ND	6.2V, 100mA Positive Regulator	TO-92	1.22	.90	.65
LM341T-5.0-ND	5V, 500mA Positive Regulator	TO-220	1.63	1.20	.87
LM78M05CDT-ND	3-Terminal Positive Regulator	TO-252	1.59	1.17	.85
LM78M12CH-ND	12V, 500mA Positive Regulator	TO-39	5.55	4.22	3.22
LM78M12CT-ND	12V, Positive Regulator	TO-220	1.72	1.27	.92
LM78M15CH-ND	15V, 500mA Positive Regulator	TO-39	5.55	4.22	3.22
LM78S40CN-ND	Universal Switching Regulator Subsystem	16-Dip	1.79	1.33	.99
LM78S40N-ND	Universal Switching Regulator Subsystem, Ind. Temp.	16-Dip	2.67	1.98	1.47
LM79L05ACM-ND	5V, 100mA Negative Regulator	8-SOIC	1.04	.75	.55
LM79L05ACMXTR-ND	5V, 100mA Negative Regulator	8-SOIC	764.75/2,500		
LM79L12ACM-ND	12V, 100mA Negative Regulator	8-SOIC	1.04	.75	.55
LM79L12ACMXTR-ND	12V, 100mA Negative Regulator	8-SOIC	764.75/2,500		
LM79M05CT-ND	5V, 500mA Negative Voltage Regulator	TO-220	1.85	1.36	.99
LM79M12CT-ND	12V, 500mA Negative Voltage Regulator	TO-220	1.85	1.36	.99
LM79M15CT-ND	15V, 500mA Negative Voltage Regulator	TO-220	1.85	1.36	.99
LM80CIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-5.75V	24-TSSOP	6.18	4.70	3.59
LM80CIMT-5-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-5.75V	24-TSSOP	6.18	4.70	3.59
LM81BIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-3.8V	24-TSSOP	3.93	2.99	2.28
LM81CIMT-3-ND	Serial Interface ACPI-Compatible Microprocessor System Hardware Monitor, 2.8V-3.8V	24-TSSOP	3.93	2.99	2.28
LM82CIMQA-ND	Triple-Diode Input and Local Digital Temperature Sensor with Two-Wire Interface	16-SSOP	3.83	2.91	2.22
LM83CIMQA-ND	Triple-Diode Input and Local Digital Temperature Sensor with Two-Wire Interface	16-SSOP	5.95	4.53	3.46
LM84BIMQA-ND	Diode Input Temp. Sensor with Two-Wire Interface	16-SSOP	3.58	2.72	2.08
LM86CIMMCT-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP	2.51	1.87	1.38
LM86CIMMTR-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP	1036.80/1,000		
LM87CIMT-ND	Serial Interface System Hardware Monitor with Remote Diode Temperature Sensing	24-TSSOP	5.53	4.20	3.21
LM90CIMMCT-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP	2.95	2.19	1.62
LM90CIMMTR-ND	Remote Diode and Digital Temperature Sensor with Two-Wire Interface	8-MSOP	1216.00/1,000		
LM92CIM-ND	Temperature Sensor and Thermal Window Comparator with Two-Wire Interface	8-SOIC	3.63	2.76	2.11

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM93CIMT-ND	Hardware Monitor with Integrated Fan Control for Server Management	56-TSSOP	9.98	7.89	6.32
LM99-1CIMMCT-ND	Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface ***NEW!***	8-MSOP	2.63	2.00	1.53
LM99-1CIMMTR-ND	Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface ***NEW!***	8-MSOP	1323.00/1,000		
LM99CIMMCT-ND	Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface	8-MSOP	2.63	2.00	1.53
LM99CIMMTR-ND	Accurate, High Temperature, Remote Diode Temperature Sensor with Two-Wire Interface	8-MSOP	1323.00/1,000		
LM108AH-ND	Precision Op Amp	TO-5	6.59	5.22	4.18
LM111H-ND	Voltage Comparator	TO-5	4.53	3.44	2.63
LM111J-8-ND	Voltage Comparator	8-CDip	8.32	6.58	5.27
LM113H-ND	Reference Diode	TO-46	9.03	7.74	6.87
LM117H-ND	500mA Positive Adjustable Voltage Regulator	TO-39	8.06	6.38	5.11
LM117K STEEL-ND	Positive Adjustable Voltage Regulator	TO-3	9.47	7.49	6.00
LM120H-5.0-ND	1.5A, 3-Terminal Negative Voltage Regulator	TO-39	9.24	7.92	7.03
LM124AJ-ND	Low Power Quad Op Amp	14-CDip	5.82	4.60	3.69
LM124J-ND	Low Power Quad Op Amp	14-CDip	6.05	4.79	3.84
LM135AH-ND	Precision Temperature Sensor	TO-46	16.59	14.22	12.61
LM135H-ND	Precision Temperature Sensor	TO-46	9.95	7.87	6.31
LM136AH-2.5-ND	2.5V, Reference Diode	TO-46	10.12	8.67	7.69
LM136H-2.5-ND	2.5V, Reference Diode	TO-46	9.53	7.54	6.04
LM136H-5.0-ND	5V, Reference Diode	TO-46	9.53	7.54	6.04
LM137H-ND	.5A, 3-Terminal Negative Voltage Regulator	TO-39	9.03	7.74	6.87
LM139J-ND	Low Power Low Offset Quad Comp.	14-CDip	6.13	4.85	3.89
LM140K-5.0-ND	.5V, Series 3-Terminal Positive Regulator	TO-3	9.53	7.54	6.04
LM140K-12-ND	12V, 1.5A Positive Voltage Regulator	TO-3	9.53	7.54	6.04
LM140LAH-5.0-ND	5V, Series 3-Terminal Positive Regulator	TO-39	5.67	4.49	3.60
LM140LAH-12-ND	12V, 100mA Positive Voltage Regulator	TO-39	5.67	4.49	3.60
LM148J-ND	Quad 741 Op Amp	14-CDip	5.33	4.22	3.38
LM150K STEEL-ND	3A, Positive Adjustable Voltage Regulator	TO-3	14.00	12.00	10.64
LM158AH-ND	Low Power Dual Op Amp	TO-5	7.79	6.16	4.94
LM158H-ND	Low Power Dual Op Amp	TO-5	4.98	3.79	2.89
LM185BH-ND	Adjustable Micropower Voltage Reference	TO-46	11.18	9.59	8.50
LM185H-2.5-ND	Micropower Voltage Reference Diode	TO-46	9.37	7.41	5.94
LM193H-ND	Low Power Offset Voltage Dual Comparator	TO-5	4.93	3.75	2.86
LM219J-ND	High Speed Dual Comparator	14-CDip	11.62	9.96	8.84
LM224J-ND	Low Power Quad Op Amp	14-CDip	6.05	4.79	3.84
LM231AN-ND	Precision Voltage-to-Frequency Converter	8-Dip	8.04	6.36	5.10
LM231N-ND	Precision Voltage-to-Frequency Converter	8-Dip	5.96	4.72	3.78
LM234Z-3-ND	Adjustable Current Source/Temperature Sensor	TO-92	2.90	2.21	1.69
LM234Z-6-ND	Adjustable Current Source/Temperature Sensor	TO-92	1.69	1.26	.93
LM235AH-ND	Precision Temperature Sensor	TO-46	10.50	9.00	7.98
LM235H-ND	Precision Temperature Sensor	TO-46	7.79	6.16	4.94
LM236AH-2.5-ND	2.5V, (1%) Voltage Reference	TO-46	7.10	5.62	4.50
LM236AH-5.0-ND	5V, Reference Diode	TO-46	7.10	5.62	4.50
LM236H-2.5-ND	2.5V, Reference Diode	TO-46	6.09	4.82	3.86
LM239J-ND	High Performance Quad Comparator	14-CDip	6.11	4.84	3.88
LM285BXZ-ND	Adjustable Micropower Voltage Reference	TO-92	2.65	2.02	1.54
LM285BYM-ND	Adjustable Micropower Voltage Reference	8-SOIC	2.79	2.08	1.54
LM285BYZ-ND	Micropower Adjustable Voltage Reference	TO-92	2.64	1.96	1.45
LM285BYZ-1.2-ND	1.2V, Micropower Voltage Reference	TO-92	2.64	1.96	1.45
LM285BYZ-2.5-ND	2.5V, Reference Diode	TO-92	2.64	1.96	1.45
LM285M-ND	Micropower Adjustable Voltage Reference	8-SOIC	1.22	.90	.65
LM285MXTR-ND	Micropower Adjustable Voltage Reference	8-SOIC	1032.75/2,500		
LM285M-1.2-ND	1.2V, Reference Diode	8-SOIC	1.10	.81	.59
LM285M-2.5-ND	Micropower Voltage Reference Diode	8-SOIC	1.10	.81	.59
LM285MX-2.5CT-ND	Micropower Voltage Reference Diode ***NEW!***	8-SOIC	1.16	.86	.62
LM285MX-2.5TR-ND	Micropower Voltage Reference Diode	8-SOIC	937.13/2,500		
LM285Z-ND	Adjustable Micropower Voltage Reference	TO-92	1.16	.85	.62
LM285Z-1.2NS-ND	Micropower Voltage Reference Diode	TO-92	1.10	.81	.59
LM285Z-2.5-ND	2.5V, Reference Diode	TO-92	1.10	.81	.59
LM301AH-ND	General Purpose Op Amp	TO-5	4.40	3.35	2.56
LM301ANNS-ND	General Purpose Op Amp	8-Dip	1.12	.82	.60
LM308AH-ND	General Purpose Op Amp	TO-5	5.15	3.92	2.99
LM308H-ND	Super Gain Op Amp	TO-5	5.15	3.92	2.99
LM309H-ND	5V Voltage Regulator	TO-39	6.23	4.74	3.62
LM309K STEEL-ND	+5V, 1.5A Voltage Regulator	TO-3	9.60	7.59	6.08
LM311H-ND	Voltage Comparator	TO-99	4.53	3.44	2.63
LM311MNS-ND	Voltage Comparator	8-SOIC	.84	.61	.44
LM311MXCT-ND	Voltage Comparator ***NEW!***	8-SOIC	.63	.46	.33
LM311MXTR-ND	Voltage Comparator	8-SOIC	621.78/2,500		
LM311NNS-ND	High Performance Voltage Comparator	8-Dip	.96	.70	.51
LM313H-ND	Precision Reference, 2-Pin	TO-18	7.10	5.62	4.50
LM317AEMPCT-ND	3-Terminal Adjustable Regulator	SOT-223	1.89	1.41	1.04
LM317AEMPTR-ND	3-Terminal Adjustable Regulator	SOT-223	779.52/1,000		
LM317AEMPXCT-ND	3-Terminal Adjustable Regulator ***NEW!***	SOT-223	1.74	1.29	.96
LM317AEMPXTR-ND	3-Terminal Adjustable Regulator	SOT-223	1559.04/2,000		
LM317AH-ND	500mA Positive Adjustable Voltage Regulator	TO-39	5.84	4.62	3.70
LM317AT-ND	1.5A Positive Adjustable Voltage Regulator	TO-220	1.79	1.33	.99
LM317EMPCT-ND	1A Positive Adjustable Voltage Regulator	SOT-223	1.47	1.08	.79
LM317EMPTR-ND	1A Positive Adjustable Voltage Regulator	SOT-223	508.30/1,000		
LM317H-ND	500mA, Positive Adjustable Voltage Regulator	TO-39	5.84	4.62	3.70
LM317HVH-ND	High Voltage 500mA, Adjustable Voltage Regulator	TO-39	8.15	6.45	5.17
LM317HVK STEEL-ND	High Voltage 1.5A, Adjustable Voltage Regulator	TO-3	9.47	7.49	6.00
LM317HVT-ND	High Voltage 1.5A, Adjustable Voltage Regulator	TO-220	2.77	2.06	1.52
LM317K STEEL-ND	1.5A Positive Adjustable Voltage Regulator	TO-3	9.47	7.49	6.00
LM317LIBPCT-ND	3-Terminal Adjustable Regulator	8-microSMD	1.06	.77	.56
LM317LIBPTR-ND	3-Terminal Adjustable Regulator	8-microSMD	100.30/250		
LM317LICT-ND	3-Terminal Adjustable Regulator ***NEW!***	6-microSMD	1.10	.80	.58
LM317LITR-ND	3-Terminal Adjustable Regulator ***NEW!***	6-microSMD	104.13/250		
LM317LM-ND	100mA Positive Adjustable Voltage Regulator	8-SOIC	.84	.61	.44
LM317LMXCT-ND	100mA Positive Adjustable Voltage Regulator ***NEW!***	8-SOIC	.86	.62	.45
LM317LMXTR-ND	100mA Positive Adjustable Voltage Regulator	8-SOIC	621.78/2,500		
LM317LZNS-ND	100mA Positive Adjustable Voltage Regulator	TO-92	.81	.59	.43
LM317MDTNS-ND	3-Terminal Adjustable Regulator	TO-252	1.63	1.20	.87
LM317S-ND	3-Terminal Adjustable Regulator	TO-263	1.84	1.37	1.02
LM317SXCT-ND	3-Terminal Adjustable Regulator ***NEW!***	TO-263	1.86	1.38	1.02
LM317SXTR-ND	3-Terminal Adjustable Regulator	TO-263	386.75/500		
LM317TNS-ND	1.5A Positive Adjustable Voltage Regulator	TO-220	1.79	1.33	.99

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM318H-ND	High Slew Rate Op Amp	TO-5	5.38	4.09	3.12
LM318M-ND	High Slew Rate Op Amp	8-SOIC	1.39	1.02	.74
LM318N-ND	High Slew Rate Op Amp	8-Dip	1.40	1.03	.75
LM319AM-ND	High Speed Dual Comparator	14-SOIC	1.85	1.36	.99
LM319H-ND	High Speed Dual Comparator	TO-5	5.33	4.05	3.09
LM319M-ND	High Speed Dual Comparator	14-SOIC	1.25	.92	.67
LM319MXTR-ND	High Speed Dual Comparator	14-SOIC	1058.25/2,500		
LM319NNS-ND	High Speed Dual Comparator	14-Dip	1.44	1.06	.77
LM320H-5.0-ND	.5A, 3-Terminal Negative Voltage Regulator	TO-39	5.84	4.62	3.70
LM320LZ-5.0-ND	5V, 0.1A Negative Voltage Regulator	TO-92	.99	.72	.52
LM320LZ-12-ND	12V, 0.1A Negative Voltage Regulator	TO-92	.99	.72	.52
LM320LZ-15-ND	15V, 0.1A Negative Voltage Regulator	TO-92	.99	.72	.52
LM320T-12-ND	12V, 1.5A 3-Terminal Negative Voltage Regulator	TO-220	1.77	1.32	.97
LM320T-15-ND	15V, 1.5A 3-Terminal Negative Voltage Regulator	TO-220	1.77	1.32	.97
LM321MFCT-ND	Low Power Single Op Amp	SOT-23-5	.77	.56	.40
LM321MFTR-ND	Low Power Single Op Amp	SOT-23-5	238.00/1,000		
LM323AK STEEL-ND	5V, 3A Positive Voltage Regulator	TO-3	9.79	7.74	6.20
LM323K STEELNS-ND	5V, 3A Positive Voltage Regulator	TO-3	9.09	7.19	5.76
LM324AMNS-ND	Low Power Quad Op Amp	14-SOIC	1.05	.78	.57
LM324AMXCT-ND	Low Power Quad Op Amp ***NEW!***	14-SOIC	.59	.43	.31
LM324AMXTR-ND	Low Power Quad Op Amp	14-SOIC	895.69/2,500		
LM324ANNS-ND	Low Power Quad Op Amp	14-Dip	1.21	.89	.65
LM324MNS-ND	Low Power Quad Op Amp	14-SOIC	1.02	.75	.55
LM324MT-ND	Low Power Quad Op Amp	14-TSSOP	1.85	1.36	.99
LM324MXCT-ND	Low Power Quad Op Amp	14-SOIC	1.01	.75	.54
LM324MXTR-ND	Low Power Quad Op Amp	14-SOIC	867.00/2,500		
LM324NNS-ND	Low Power Quad Op Amp	14-Dip	1.18	.87	.63
LM329DZ-ND	6.9V Precision Zener 100ppm/°C	TO-92	1.40	1.03	.75
LM330T-5.0-ND	3-Terminal Positive Regulator	TO-220	1.73	1.27	.92
LM331AN-ND	Precision Voltage-to-Frequency Converter	8-Dip	7.20	5.70	4.57
LM331N-ND	Precision Voltage-to-Frequency Converter	8-Dip	2.83	2.15	1.64
LM333K STEEL-ND	3A Negative Adjustable Voltage Regulator	TO-3	9.42	8.07	7.16
LM334H-ND	3-Terminal Adjustable Current Source	TO-46	3.98	3.03	2.31
LM334M-ND	3-Terminal Adjustable Current Source	8-SOIC	1.21	.89	.65
LM334MXTR-ND	3-Terminal Adjustable Current Source	8-SOIC	1029.56/2,500		
LM334SM-ND	3-Terminal Adjustable Current Source	8-SOIC	2.58	1.96	1.50
LM334ZNS-ND	3-Terminal Adjustable Current Source	TO-92	1.21	.89	.65
LM335AH-ND	Precision Temperature Sensor	TO-46	6.97	5.52	4.42
LM335AM-ND	Precision Temperature Sensor	8-SOIC	1.56	1.16	.86
LM335AZNS-ND	Precision Temperature Sensor	TO-92	1.56	1.16	.86
LM335H-ND	Precision Temperature Sensor	TO-46	5.78	4.39	3.35
LM335M-ND	Precision Temperature Sensor	8-SOIC	1.21	.89	.65
LM335ZNS-ND	Voltage Mode Temperature Sensor	TO-92	1.21	.89	.65
LM336BM-2.5-ND	2.5V Reference Diode	8-SOIC	1.59	1.17	.85
LM336BM-5.0-ND	5V Reference Diode	8-SOIC	1.59	1.17	.85
LM336BZ-2.5-ND	2.5V Reference Diode	TO-92	1.59	1.17	.85
LM336BZ-5.0-ND	5V Reference Diode	TO-92	1.59	1.17	.85
LM336M-2.5-ND	2.5V Reference Diode	8-SOIC	.96	.71	.51
LM336MX-2.5TR-ND	2.5V Reference Diode	8-SOIC	812.81/2,500		
LM336M-5.0-ND	5.0V Reference Diode	8-SOIC	.96	.71	.51
LM336Z-2.5NS-ND	2.5V Reference Diode	TO-92	.96	.71	.51
LM336Z-5.0-ND	5.0V Reference Diode	TO-92	.96	.71	.51
LM337HVH-ND	500mA Negative Adjustable Regulator (High Voltage)	TO-39	10.23	8.09	6.48
LM337HVK STEEL-ND	1.5A Negative Adjustable Regulator (High Voltage)	TO-3	11.18	9.59	8.50
LM337IMPCT-ND	1A Negative Adjustable Voltage Regulator	SOT-223	1.69	1.26	.93
LM337IMPTR-ND	1A Negative Adjustable Voltage Regulator	SOT-223	697.60/1,000		
LM337K STEEL-ND	1.5A Negative Adjustable Voltage Regulator	TO-3	9.45	7.47	5.99
LM337LM-ND	100mA Negative Adjustable Voltage Regulator	8-SOIC	1.04	.75	.55
LM337LMXCT-ND	100mA Negative Adjustable Voltage Regulator ***NEW!***	8-SOIC	1.04	.75	.55
LM337LMXTR-ND	100mA Negative Adjustable Voltage Regulator	8-SOIC	764.75/2,500		
LM337LZ-ND	100mA Negative Adjustable Voltage Regulator	TO-92	1.04	.75	.55
LM337TNS-ND	1.5A Negative Adjustable Voltage Regulator	TO-220	2.06	1.53	1.13
LM338K STEEL-ND	5A Adjustable Positive Regulator	TO-3	14.89	12.77	11.32
LM338T-ND	5A Adjustable Positive Regulator	TO-220	2.50	1.86	1.38
LM339AMXCT-ND	Low Power Low Offset Voltage Quad Comparator ***NEW!***	14-SOIC	1.08	.78	.57
LM339AMXTR-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC	791.35/2,500		
LM339ANNS-ND	Low Power Low Offset Voltage Quad Comparator	14-Dip	1.01	.75	.54
LM339AM-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC	1.07	.78	.56
LM339MNS-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC	1.04	.75	.55
LM339MXCT-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC	1.04	.75	.55
LM339MXTR-ND	Low Power Low Offset Voltage Quad Comparator	14-SOIC	764.75/2,500		
LM339NNS-ND	High Performance Quad Comparator	14-Dip	1.11	.81	.59
LM340AT-5.0-ND	5V, 1.0A Positive Voltage Regulator	TO-220	1.85	1.36	.99
LM340K-5.0-ND	5V, 1.0A Positive Voltage Regulator	TO-3	9.53	7.54	6.04
LM340K-12-ND	12V, 1.0A Positive Voltage Regulator	TO-3	9.53	7.54	6.04
LM340K-15-ND	15V, 1.0A Positive Voltage Regulator	TO-3	9.53	7.54	6.04
LM340LAH-5.0-ND	5V, 100mA Positive Voltage Regulator	TO-39	5.98	4.55	3.47
LM340LAH-12-ND	12V, 100mA Positive Voltage Regulator	TO-39	5.98	4.55	3.47
LM340LAZ-5.0-ND	5V, 100mA Positive Voltage Regulator	TO-92	.96	.71	.51
LM340LAZ-12-ND	12V, 100mA Positive Voltage Regulator	TO-92	.96	.71	.51
LM340MP-5.0CT-ND	5V, 1A Voltage Regulator	SOT-223	1.33	.98	.71
LM340MP-5.0TR-ND	5V, 1A Voltage Regulator	SOT-223	460.20/1,000		
LM340S-5.0-ND	5V, Series 3-Terminal Positive Regulator	TO-263	1.66	1.24	.92
LM340SX-5.0TR-ND	5V, Series 3-Terminal Positive Regulator	TO-263	348.40/500		
LM340S-12-ND	12V, Series 3-Terminal Positive Regulator	TO-263	1.66	1.24	.92
LM340T-5.0-ND	5V, 1.0A Positive Voltage Regulator (7805)	TO-220	1.76	1.29	.94
LM340T-12-ND	12V, 1.0A Positive Voltage Regulator (7812)	TO-220	1.76	1.29	.94
LM340T-15-ND	15V, 1.0A Positive Voltage Regulator (7815)	TO-220	1.76	1.29	.94
LM341T-5.0-ND	5V, 500mA Voltage Regulator	TO-220	1.63	1.20	.87
LM341T-15-ND	15V, 500mA Voltage Regulator	TO-220	1.72	1.27	.92
LM348M-ND	Quad 741 Operational Amp	14-SOIC	1.12	.82	.60
LM348NNS-ND	Quad 741 Operational Amp	14-Dip	1.31	.96	.70
LM350AT-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator	TO-220	2.85	2.17	1.66
LM350K STEELNS-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator	TO-3	9.63	8.25	7.32
LM350TNS-ND	3A, 3-Terminal Positive Adjustable Voltage Regulator	TO-220	2.29	1.71	1.26
LM358AMNS-ND	Low Power Dual Op Amp	8-SOIC	1.07	.78	.56
LM358AMXCT-ND	Low Power Dual Op Amp ***NEW!***	8-SOIC	1.08	.78	.57
LM358AMXTR-ND	Low Power Dual Op Amp	8-SOIC	791.35/2,500		
LM358ANNS-ND	Low Power Dual Op Amp (Elect. Improv.)	8-Dip	1.01	.75	.54
LM358BPCT-ND	Low Power Dual Op Amp	8-microSMD	1.07	.78	.56
LM358BPTR-ND	Low Power Dual Op Amp	8-microSMD	101.15/250		
LM358MNS-ND	Low Power Dual Op Amp	8-SOIC	1.04	.75	.55
LM358MXCT-ND	Low Power Dual Op Amp	8-SOIC	1.04	.75	.55
LM358MXTR-ND	Low Power Dual Op Amp	8-SOIC	764.75/2,500		
LM358NNS-ND	Low Power Dual Op Amp	8-Dip	1.11	.81	.59
LM359M-ND	Dual, High Speed Prog. Current Mode (Norton) Amp	14-SOIC	2.80	2.13	1.63
LM359N-ND	High Speed Norton Op Amp	14-Dip	2.98	2.27	1.73
LM360H-ND	High Speed Differential Comparator	TO-5	5.80	4.41	3.37
LM360M-ND	High Speed Differential Comparator	8-SOIC	4.38	3.33	2.54
LM360N-ND	High Speed Differential Comparator	8-Dip	4.38	3.33	2.54
LM361M-ND	High Speed Differential Comparator	14-SOIC	3.01	2.24	1.65
LM361N-ND	High Speed Differential Comparator	14-Dip	3.01	2.24	1.65
LM380N-ND	2.5W Audio Power Amplifier	14-Dip	1.58	1.18	.87
LM380N-8-ND	2.5W Audio Amplifier	8-Dip	1.66	1.22	.89
LM384N-ND	5W Audio Amplifier	14-Dip	1.58	1.18	.87
LM385BM-ND	Adj. Micropower Voltage Reference	8-SOIC	1.06	.78	.57
LM385BM-1.2-ND	1.2V Reference Diode 150ppm/°C	8-SOIC	1.10	.81	.59
LM385BMX-1.2TR-ND	1.2V Reference Diode 150ppm/°C	8-SOIC	937.13/2,500		
LM385BM-2.5-ND	2.5V Reference Diode 150ppm/°C	8-SOIC	1.10	.81	.59
LM385BMX-2.5TR-ND	2.5V Reference Diode 150ppm/°C	8-SOIC	937.13/2,500		
LM385BXM-2.5-ND	2.5V Micropower Voltage Reference Diode	8-SOIC	3.01	2.24	1.66
LM385BXZ-ND	Adjustable Micropower Voltage Reference Diode	TO-92	2.98	2.22	1.64
LM385BXZ-2.5-ND	2.5V Reference Diode 30ppm/°C	TO-92	2.97	2.21	1.63
LM385BYM-1.2-ND	1.2V Micropower Voltage Reference Diode	8-SOIC	2.42	1.80	1.33
LM385BYZ-1.2-ND	1.2V Precision Voltage Reference 50ppm/°C	TO-92	2.38	1.77	1.31
LM385BYZ-2.5-ND	2.5V Precision Voltage Reference 50ppm/°C	TO-92	2.38	1.77	1.31
LM385BYZ-ND	Adjustable Reference Diode	TO-92	2.38	1.77	1.31
LM385BZ-ND	Adjustable Micropower Voltage Reference Diode	TO-92	1.05	.77	.56
LM385BZ-1.2NS-ND	Micropower Voltage Reference Diode	TO-92	1.06	.77	.56
LM385BZ-2.5NS-ND	2.5V, Voltage Reference Diode	TO-92	1.06	.77	.56
LM385M-ND	Adjustable Voltage Reference Diode	8-SOIC	1.02	.74	.54
LM385MXTR-ND	Adjustable Voltage Reference Diode	8-SOIC	754.78/2,500		
LM385M-1.2-ND	1.2V, Voltage Reference Diode	8-SOIC	1.02	.74	.54
LM385MX-1.2CT-ND	1.2V, Voltage Reference Diode ***NEW!***	8-SOIC	.81	.59	.43
LM385MX-1.2TR-ND	1.2V, Voltage Reference Diode	8-SOIC	754.78/2,500		
LM385M-2.5-ND	2.5V, Voltage Reference Diode 150ppm/°C	8-SOIC	1.02	.74	.54
LM385MX-2.5TR-ND	2.5V, Voltage Reference Diode 150ppm/°C	8-SOIC	754.78/2,500		
LM385M3-2.5CT-ND	2.5V, Micropower Voltage Reference Diode	SOT-23	1.33	.98	.71
LM385M3-2.5TR-ND	2.5V, Micropower Voltage Reference Diode	SOT-23	460.20/1,000		
LM385M3X-1.2CT-ND	1.2V, Micropower Voltage Reference Diode ***NEW!***	SOT-23	1.20	.88	.64
LM385M3X-1.2TR-ND	1.2V, Micropower Voltage Reference Diode ***NEW!***	SOT-23	1354.05/3,000		
LM385M3X-2.5CT-ND	2.5V, Micropower Voltage Reference Diode	SOT-23	1.33	.98	.71
LM385M3X-2.5TR-ND	2.5V, Micropower Voltage Reference Diode	SOT-23	1354.05/3,000		
LM385Z-ND	Adjustable Voltage Reference Diode	TO-92	.99	.72	.52
LM385Z-1.2NS-ND	1.2V, Voltage Reference Diode	TO-92	.99	.72	.52
LM385Z-2.5NS-ND	2.5V, Voltage Reference Diode	TO-92	.99	.72	.52
LM386M-1-ND	Low Voltage Audio Power Amp	8-SOIC	.94	.69	.50
LM386N-1-ND	Low Voltage Audio Power Amp, Vs=6V	8-Dip	.94	.69	.50
LM386N-3-ND	Low Voltage Audio Power Amp, Vs=9V	8-Dip	.94	.69	.50
LM386N-4-ND	Low Voltage Audio Power Amp, Vs=16V	8-Dip	.94	.69	.50
LM392M-ND	Single Op Amp and Comparator	8-SOIC	1.55	1.15	.85
LM392MXTR-ND	Single Op Amp and Comparator	8-SOIC	1562.50/2,500		
LM392N-ND	Op Amp and Comparator	8-Dip	1.67	1.25	.92
LM393MNS-ND	Low Power Low Offset Voltage Dual Comparator	8-SOIC	1.04	.75	.55
LM393MXCT-ND	Low Power Low Offset Voltage Dual Comparator ***NEW!***	8-SOIC	1.04	.75	.55
LM393MXTR-ND	Low Power Low Offset Voltage Dual Comparator	8-SOIC	764.75/2,500		
LM393NNS-ND	Dual Comparator	8-Dip	1.11	.81	.59
LM394CH-ND	Super Matched NPN Pairs	TO-5	6.34	5.02	4.02
LM395T-ND	Ultra Reliable High Gain Power Transistor	TO-220	3.48	2.65	2.02
LM399H-ND	Precision Reference	TO-46	6.23	4.74	3.62
LM431ACM-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	.73	.53	.39
LM431ACMXTR-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	538.65/2,500		
LM431ACM3XCT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.73	.53	.39
LM431ACM3XTR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	646.38/3,000		
LM431ACZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.73	.53	.39
LM431AIBPCT-ND	Adjustable Precision Zener Shunt Regulator	4-microSMD	.77	.56	.40
LM431AIBPTR-ND	Adjustable Precision Zener Shunt Regulator	4-microSMD	72.25/250		
LM431AIM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.77	.56	.40
LM431AIM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	238.00/1,000		
LM431AIMXCT-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	.77	.56	.40
LM431AIMXTR-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	565.25/2,500		
LM431AIZ-ND	Adjustable Precision Zener Shunt Regulator, Ind. Temp.	TO-92	.77	.56	.40
LM431BCM-ND	Adjustable Precision Zener Shunt Regulator	SOT-8	.79	.58	.42
LM431BCM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.79	.58	.42
LM431BCM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	246.40/1,000		
LM431BCZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.79	.58	.42
LM431BIM-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	.83	.60	.44
LM431BIM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	.83	.60	.44
LM431BIM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	257.60/1,000		
LM431BIZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	.83	.60	.44
LM431CCM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	1.10	.81	.59
LM431CCM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	382.20/1,000		
LM431CCZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	1.10	.81	.59
LM431CIM-ND	Adjustable Precision Zener Shunt Regulator	8-SOIC	1.22	.90	.65
LM431CIM3CT-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	1.22	.90	.65
LM431CIM3TR-ND	Adjustable Precision Zener Shunt Regulator	SOT-23	421.20/1,000		
LM431CIZ-ND	Adjustable Precision Zener Shunt Regulator	TO-92	1.22	.90	.65
LM555CM-ND	Timer	8-SOIC	.92	.67	.48
LM555CMXCT-ND	Timer ***NEW!***	8-SOIC	.92	.67	.48
LM555CMXTR-ND	Timer	8-SOIC	678.30/2,500		
LM555CMMCT-ND	Timer	8-MSOP	.99	.72	.52
LM555CMMTR-ND	Timer	8-MSOP	309.40/1,000		
LM555CNNS-ND	Timer	8-Dip	1.04	.75	.55
LM556CM-ND	Dual Timer	14-SOIC	1.34	.99	.72
LM556CMXCT-ND	Dual Timer ***NEW!***	14-SOIC	1.34	.99	.72
LM556CMXTR-ND	Dual Timer	14-SOIC	1137.94/2,500		
LM556CN-ND	Timer	14-Dip	1.50	1.10	.80
LM565CN-ND	Phase Lock Loop	14-Dip	2.06	1.53	1.13
LM567CM-ND	Tone Decoder Phase Lock Loop	8-SOIC	1.80	1.32	.96
LM567CMXTR-ND	Tone Decoder Phase Lock Loop	8-SOIC	1530.00/2,500		
LM567CN-ND	Tone Decoder Phase Lock Loop	8-Dip	1.80	1.32	.96
LM611CM-ND	Op Amp and Adjustable Reference	14-SOIC	2.23	1.66	1.23
LM611IM-ND	Op Amp and Adjustable Reference	14-SOIC	2.51	1.87	1.38
LM613IWM-ND	Dual Op Amp, Dual Comparator and Adj. Reference	16-SOIC	2.88	2.19	1.67
LM614CWM-ND	Quad Op Amp with Adjustable Reference	16-SOIC	2.50	1.90	1.45
LM628N-6-ND	Precision Motion Controller, 6MHz	28-Dip	24.75	23.10	21.45
LM628N-8-ND	Precision Motion Controller, 8MHz	28-Dip	42.90	40.04	37.18
LM629M-6-ND	Precision Motion Controller, 6MHz	24-SOIC	24.75	23.10	21.45
LM629M-8-ND	Precision Motion Controller, 8MHz	24-SOIC	42.90	40.04	37.18
LM629N-6-ND	Precision Motion Controller, 6MHz	28-Dip	24.75	23.10	21.45

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM629N-8-ND	8-Bit PWM Motion Controller	28-Dip	42.90	40.04	37.18
LM675T-ND	Power Operational Amplifier	TO-220-5	5.85	4.45	3.40
LM709CH-ND	General Purpose Op Amp	TO-5	3.93	2.99	2.28
LM723CH-ND	150mA Positive Adjustable Voltage Regulator	TO-5	4.88	3.71	2.83
LM723CNNS-ND	Precision Voltage Regulator	14-Dip	1.12	.82	.60
LM723H-ND	2V-37V, Adjustable Voltage Regulator	TO-5	4.88	3.71	2.83
LM725CH-ND	Instrumentation Op Amp	TO-5	5.10	3.88	2.96
LM725CN-ND	Instrumentation Op Amp	8-Dip	2.63	2.00	1.53
LM741CH-ND	18V, High Performance Op Amp	TO-5	4.38	3.33	2.54
LM741CNNS-ND	18V, High Performance Op Amp	8-Dip	.84	.61	.44
LM741H-ND	High Performance Op Amp High Temp	TO-5	4.38	3.33	2.54
LM809M3-2.63CT-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23	.84	.61	.44
LM809M3-2.63TR-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23	261.80/1,000		
LM809M3-2.93CT-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	.84	.61	.44
LM809M3-2.93TR-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	261.80/1,000		
LM809M3-3.08CT-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23	.84	.61	.44
LM809M3-3.08TR-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23	261.80/1,000		
LM809M3-4.00CT-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	.84	.61	.44
LM809M3-4.00TR-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	261.80/1,000		
LM809M3-4.38CT-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23	.84	.61	.44
LM809M3-4.38TR-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23	261.80/1,000		
LM809M3-4.63CT-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23	.84	.61	.44
LM809M3-4.63TR-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23	261.80/1,000		
LM810M3-2.63CT-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23	.84	.61	.44
LM810M3-2.63TR-ND	3-Pin Microprocessor Reset Circuits, 2.63V	SOT-23	261.80/1,000		
LM810M3-2.93CT-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	.84	.61	.44
LM810M3-2.93TR-ND	3-Pin Microprocessor Reset Circuits, 2.93V	SOT-23	261.80/1,000		
LM810M3-3.08CT-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23	.84	.61	.44
LM810M3-3.08TR-ND	3-Pin Microprocessor Reset Circuits, 3.08V	SOT-23	261.80/1,000		
LM810M3-4.00CT-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	.84	.61	.44
LM810M3-4.00TR-ND	3-Pin Microprocessor Reset Circuits, 4.00V	SOT-23	261.80/1,000		
LM810M3-4.38CT-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23	.84	.61	.44
LM810M3-4.38TR-ND	3-Pin Microprocessor Reset Circuits, 4.38V	SOT-23	261.80/1,000		
LM810M3-4.63CT-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23	.84	.61	.44
LM810M3-4.63TR-ND	3-Pin Microprocessor Reset Circuits, 4.63V	SOT-23	261.80/1,000		
LM828M5CT-ND	Switched Capacitor Voltage Converter	SOT-23-5	1.04	.75	.55
LM828M5TR-ND	Switched Capacitor Voltage Converter	SOT-23-5	322.00/1,000		
LM828M5XTR-ND	Switched Capacitor Voltage Converter	SOT-23-5	917.70/3,000		
LM833M-ND	Dual Audio Op Amp	8-SOIC	.94	.69	.50
LM833MXTR-ND	Dual Audio Op Amp	8-SOIC	796.88/2,500		
LM833MMCT-ND	Dual Audio Op Amp	8-MSOP	.94	.69	.50
LM833MMTR-ND	Dual Audio Op Amp	8-MSOP	325.00/1,000		
LM833NNS-ND	Dual Audio Op Amp	8-Dip	.94	.69	.50
LM837M-ND	Low Noise Quad Op Amp	14-SOIC	1.84	1.35	.98
LM837MXCT-ND	Low Noise Quad Op Amp ***NEW!***	14-SOIC	1.84	1.35	.98
LM837MXTR-ND	Low Noise Quad Op Amp	14-SOIC	1561.88/2,500		
LM837N-ND	Low Noise Quad Op Amp	14-Dip	1.55	1.15	.85
LM1036M-ND	Tone/Volume/Balance Circuit	20-SOIC	3.07	2.28	1.69
LM1036N-ND	Dual DC Oper. Tone/Volume/Balance Circuit	20-Dip	2.55	1.94	1.48
LM1084IS-ADJ-ND	Adjustable Voltage 5A Low Dropout Positive Regulator	TO-263	3.15	2.40	1.83
LM1084IS-3.3-ND	3.3V, 5A LDO Positive Regulator	TO-263	3.15	2.40	1.83
LM1084IS-5.0-ND	5V, 5A LDO Positive Regulator	TO-263	3.15	2.40	1.83
LM1084IS-12-ND	12V, 5A LDO Positive Regulator	TO-263	3.15	2.40	1.83
LM1084IT-ADJ-ND	Adjustable Voltage 5A LDO Positive Regulator	TO-220	3.13	2.38	1.82
LM1084IT-3.3-ND	3.3V, 5A LDO Positive Regulator	TO-220	3.13	2.38	1.82
LM1084IT-5.0-ND	5V, 5A LDO Positive Regulator	TO-220	3.13	2.38	1.82
LM1084IT-12-ND	12V, 5A LDO Positive Regulator	TO-220	3.13	2.38	1.82
LM1085IS-ADJ-ND	Adjustable Voltage 3A Low Dropout Positive Regulator	TO-263	3.00	2.23	1.65
LM1085IS-3.3-ND	3.3V, 3A LDO Positive Regulator	TO-263	3.00	2.23	1.65
LM1085IS-5.0-ND	5V, 3A LDO Positive Regulator	TO-263	3.00	2.23	1.65
LM1085IS-12-ND	12V, 3A LDO Positive Regulator	TO-263	3.00	2.23	1.65
LM1085ISX-12CT-ND	12V, 3A LDO Positive Regulator ***NEW!***	TO-263	3.00	2.23	1.65
LM1085ISX-12TR-ND	12V, 3A LDO Positive Regulator ***NEW!***	TO-263	629.85/500		
LM1085IT-ADJ-ND	Adjustable Voltage 3A LDO Positive Regulator	TO-220	2.98	2.22	1.64
LM1085IT-3.3-ND	3.3V, 3A LDO Positive Regulator	TO-220	2.98	2.22	1.64
LM1085IT-5.0-ND	5V, 3A LDO Positive Regulator	TO-220	2.98	2.22	1.64
LM1085IT-12-ND	12V, 3A LDO Positive Regulator	TO-220	2.98	2.22	1.64
LM1086CS-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-263	2.42	1.80	1.33
LM1086CS-2.5-ND	2.5V, 1.5A LDO Positive Regulator	TO-263	2.42	1.80	1.33
LM1086CS-2.85-ND	2.85V, 1.5A LDO Positive Regulator	TO-263	2.42	1.80	1.33
LM1086CS-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-263	2.42	1.80	1.33
LM1086CS-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-263	2.42	1.80	1.33
LM1086CT-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-220	2.42	1.80	1.33
LM1086CT-2.85-ND	2.85V, 1.5A LDO Positive Regulator	TO-220	2.42	1.80	1.33
LM1086CT-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-220	2.42	1.80	1.33
LM1086CT-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-220	2.42	1.80	1.33
LM1086IS-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-263	2.42	1.80	1.33
LM1086IS-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-263	2.42	1.80	1.33
LM1086IS-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-263	2.42	1.80	1.33
LM1086IT-ADJ-ND	Adjustable Voltage 1.5A LDO Positive Regulator	TO-220	2.42	1.80	1.33
LM1086IT-2.85-ND	2.85V, 1.5A LDO Positive Regulator	TO-220	2.42	1.80	1.33
LM1086IT-3.3-ND	3.3V, 1.5A LDO Positive Regulator	TO-220	2.42	1.80	1.33
LM1086IT-5.0-ND	5V, 1.5A LDO Positive Regulator	TO-220	2.42	1.80	1.33
LM1117DT-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator	TO-252	1.59	1.17	.85
LM1117DT-2.5-ND	2.5V, 800mA LDO Linear Regulator	TO-252	1.59	1.17	.85
LM1117DT-2.85-ND	2.85V, 800mA LDO Linear Regulator	TO-252	1.59	1.17	.85
LM1117DT-3.3-ND	3.3V, 800mA LDO Linear Regulator	TO-252	1.59	1.17	.85
LM1117DT-5.0-ND	5V, 800mA LDO Linear Regulator	TO-252	1.59	1.17	.85
LM1117DTX-3.3TR-ND	3.3V, 800mA LDO Linear Regulator	TO-252	1354.69/2,500		
LM1117IDT-3.3-ND	3.3V, 800mA LDO Linear Regulator	TO-252	1.59	1.17	.85
LM1117IDT-5.0-ND	5.0V, 800mA LDO Linear Regulator	TO-252	1.59	1.17	.85
LM1117IMP-ADJCT-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223	1.25	.92	.67
LM1117IMP-ADJTR-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223	431.60/1,000		
LM1117IMP-3.3CT-ND	3.3V, 800mA LDO Linear Regulator	SOT-223	1.25	.92	.67
LM1117IMP-3.3TR-ND	3.3V, 800mA LDO Linear Regulator	SOT-223	431.60/1,000		
LM1117IMP-5.0CT-ND	5.0V, 800mA LDO Linear Regulator	SOT-223	1.25	.92	.67
LM1117IMP-5.0TR-ND	5.0V, 800mA LDO Linear Regulator	SOT-223	431.60/1,000		
LM1117MP-ADJCT-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223	1.25	.92	.67
LM1117MP-ADJTR-ND	Adjustable Voltage 800mA LDO Linear Regulator	SOT-223	431.60/1,000		
LM1117MP-1.8CT-ND	1.8V, 800mA LDO Linear Regulator	SOT-223	1.25	.92	.67
LM1117MP-1.8TR-ND	1.8V, 800mA LDO Linear Regulator	SOT-223	431.60/1,000		
LM1117MP-2.85CT-ND	2.85V, 800mA LDO Linear Regulator	SOT-223	1.25	.92	.67
LM1117MP-2.85TR-ND	2.85V, 800mA LDO Linear Regulator	SOT-223	431.60/1,000		
LM1117MP-3.3CT-ND	3.3V, 800mA LDO Regulator	SOT-223	1.25	.92	.67
LM1117MP-3.3TR-ND	3.3V, 800mA LDO Regulator	SOT-223	431.60/1,000		
LM1117MP-5.0CT-ND	5V, 800mA LDO Linear Regulator	SOT-223	1.25	.92	.67
LM1117MP-5.0TR-ND	5V, 800mA LDO Linear Regulator	SOT-223	431.60/1,000		
LM1117MPX-2.5CT-ND	2.5V, 800mA LDO Linear Regulator	SOT-223	1.17	.85	.62
LM1117MPX-2.5TR-ND	2.5V, 800mA LDO Linear Regulator	SOT-223	863.20/2,000		
LM1117MPX-3.3CT-ND	3.3V, 800mA LDO Linear Regulator ***NEW!***	SOT-223	1.24	.91	.66
LM1117MPX-3.3TR-ND	3.3V, 800mA LDO Linear Regulator	SOT-223	863.20/2,000		
LM1117MPX-5.0CT-ND	5V, 800mA LDO Linear Regulator	SOT-223	1.25	.92	.67
LM1117MPX-5.0TR-ND	5V, 800mA LDO Linear Regulator	SOT-223	863.20/2,000		
LM1117S-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator	TO-263	1.68	1.25	.92
LM1117T-ADJ-ND	Adjustable Voltage 800mA LDO Linear Regulator	TO-220	1.66	1.24	.92
LM1117T-2.85-ND	2.85V, 800mA LDO Linear Regulator	TO-220	1.66	1.24	.92
LM1117T-3.3-ND	3.3V, 800mA LDO Linear Regulator	TO-220	1.66	1.24	.92
LM1117T-5.0-ND	5V, 800mA LDO Linear Regulator	TO-220	1.66	1.24	.92
LM1237BAAF/NA-ND	150MHz, I^{2}C Compatible RGB Preamp*	24-Dip	2.42	1.80	1.33
LM1246AAC/NA-ND	150MHz, I^{2}C Compatible RGB Preamp ***NEW!***	24-Dip	3.20	2.44	1.86
LM1247AAG/NA-ND	150MHz, I^{2}C Preamplifier, 512 Character OSD ROM, 512 Character RAM	24-Dip	2.79	2.07	1.53
LM1262NA-ND	200MHz, I^{2}C Compatible RGB Video Amp System ***NEW!***	24-Dip	3.20	2.44	1.86
LM1267NA-ND	150MHz, I^{2}C Compatible RGB Video Amp System ***NEW!***	24-Dip	3.04	2.26	1.67
LM1269DNA-ND	110MHz, I^{2}C Compatible RGB Video Amp System*	24-Dip	2.51	1.87	1.38
LM1269NA-ND	110MHz, I^{2}C Compatible RGB Video Amp System*	24-Dip	2.39	1.78	1.31
LM1279AN-ND	110MHz RGB Video Amp System with OSD	20-Dip	1.67	1.25	.92
LM1458M-ND	Dual Op Amp	8-SOIC	1.04	.75	.55
LM1458MXCT-ND	Dual Op Amp ***NEW!***	8-SOIC	1.04	.75	.55
LM1458MXTR-ND	Dual Op Amp	8-SOIC	764.75/2,500		
LM1458NNS-ND	Dual Op Amp	8-Dip	.99	.73	.53
LM1572MTC-3.3-ND	1.5A, 500KHz Step-Down Voltage Regulator	16-TSSOP	3.53	2.68	2.05
LM1572MTC-5.0-ND	1.5A, 500KHz Step-Down Voltage Regulator	16-TSSOP	3.53	2.68	2.05
LM1572MTC-AD D	Video Sync. Separator	8-SOIC	2.93	2.23	1.70
LM1770SMFCT-ND	Low Voltage Sync. Buck Controller ***NEW!***	SOT-23-5	2.80	2.08	1.54
LM1770SMFTR-ND	Low Voltage Sync. Buck Controller ***NEW!***	SOT-23-5	1155.84/1,000		
LM1770TMFCT-ND	Low Voltage Sync. Buck Controller ***NEW!***	SOT-23-5	2.80	2.08	1.54
LM1770TMFTR-ND	Low Voltage Sync. Buck Controller ***NEW!***	SOT-23-5	1155.84/1,000		
LM1770UMFCT-ND	Low Voltage Sync. Buck Controller ***NEW!***	SOT-23-5	2.80	2.08	1.54
LM1770UMFTR-ND	Low Voltage Sync. Buck Controller ***NEW!***	SOT-23-5	1155.84/1,000		
LM1881MXTR-ND	Video Sync. Separator	8-SOIC	3656.25/2,500		
LM1881N-ND	Video Sync. Separator	8-Dip	2.93	2.23	1.70
LM1894M-ND	Dynamic Noise Reduction System	14-SOIC	2.39	1.78	1.31
LM1949N-ND	476Kbytes, Injector Drive Controller	8-Dip	4.35	3.31	2.53
LM1971M-ND	Digitally Controlled 62dB Audio Attenuator with Mute	8-SOIC	3.04	2.26	1.67
LM1971N-ND	Digitally Controlled 62dB Audio Attenuator with Mute	8-Dip	2.65	2.02	1.54
LM1972M-ND	2-Channel 78dB Audio Attenuator with Mute	20-SOIC	4.25	3.23	2.47
LM1973M-ND	MicroPot™ 3-Channel 76dB Audio Attenuator with Mute	20-SOIC	2255.40/1,000		
LM1973N-ND	MicroPot™ 3-Channel Audio Attenuator with Mute	20-Dip	4.85	3.69	2.82
LM2412T-ND	Monolithic Triple 2.8nS CRT Driver	TO-220-11	5.71	4.52	3.62
LM2422TE-ND	Mono 220V, 3-Channel, 30MHz CRT DTV Driver*	TO-220-11	7.79	6.16	4.94
LM2426TE-ND	Monolithic Triple 30MHz DTV Driver	TO-220-11	7.41	5.86	4.70
LM2435T-ND	Monolithic Triple 5.5nS CRT Driver	TO-220-9	4.13	3.14	2.40
LM2437T-ND	Monolithic Triple 7.5nS CRT Driver	TO-220-9	2.95	2.19	1.62
LM2439T-ND	Monolithic Triple 9.5nS CRT Driver	TO-220-9	2.45	1.82	1.35
LM2445TA-ND	Monolithic Triple 7.5ns CRT Driver	TO-220-9	2.45	1.82	1.35
LM2462TA-ND	Monolithic Triple 3nS CRT Driver ***NEW!***	TO-220-11	6.78	5.37	4.30
LM2463TA-ND	Monolithic Triple 4nS CRT Driver*	TO-220-11	6.28	4.97	3.98
LM2465TA-ND	Monolithic Triple 5.5nS High Gain CRT Driver ***NEW!***	TO-220-9	4.00	3.04	2.32
LM2466TA-ND	Monolithic Triple 7.5nS CRT Driver ***NEW!***	TO-220-9	2.95	2.19	1.62
LM2467TA-ND	Monolithic Triple 7.5nS CRT Driver	TO-220-9	3.33	2.53	1.93
LM2468TA-ND	Monolithic Triple 14nS High Gain CRT Driver ***NEW!***	TO-220-9	2.36	1.75	1.30
LM2469TA-ND	Monolithic Triple 9nS High Gain CRT Driver	TO-220-9	2.48	1.84	1.36
LM2480NA-ND	80V Triple Bias Clamp*	8-Dip	.95	.69	.50
LM2485NA-ND	220V Triple Clamp with G1 Blank Amp*	24-Dip	1.89	1.41	1.04
LM2524DN-ND	Regulator Pulse Width Module (PWM)	16-Dip	1.67	1.25	.92
LM2574HVM-ADJ-ND	Simple Switcher 0.5A Step-Down Voltage Regulator	14-SOIC	4.85	3.69	2.82
LM2574HVM-3.3-ND	3.3V, Simple Switcher 0.5A Step-Down Volt. Regulator	14-SOIC	4.85	3.69	2.82
LM2574HVM-5.0-ND	5V, 500mA Step-Down Switch Regulator	14-SOIC	4.85	3.69	2.82
LM2574HVM-12-ND	12V, Simple Switcher 0.5A Step-Down Volt. Regulator	14-SOIC	4.85	3.69	2.82
LM2574HVN-ADJ-ND	Adjustable Voltage 500mA Step-Down Switch Regulator	8-Dip	4.85	3.69	2.82
LM2574HVN-3.3-ND	3.3V, Simple Switcher 0.5A Step-Down Voltage Regulator	8-Dip	4.85	3.69	2.82
LM2574HVN-5.0-ND	5V, 500mA Step-Down Switch Regulator	8-Dip	4.85	3.69	2.82
LM2574HVN-12-ND	12V, 500mA Step-Down Switch Regulator	8-Dip	4.85	3.69	2.82
LM2574M-3.3-ND	3.3V, 500mA Step-Down Switch Regulator	14-SOIC	2.47	1.84	1.36
LM2574M-5.0-ND	5V, 500mA Step-Down Switch Regulator	14-SOIC	2.47	1.84	1.36
LM2574MX-5.0TR-ND	5V, 500mA Step-Down Switch Regulator	14-SOIC	1018.88/1,000		
LM2574M-12-ND	12V, 500mA Step-Down Switch Regulator	14-SOIC	2.47	1.84	1.36
LM2574MX-ADJTR-ND	Adjustable 500mA Step-Down Switch Regulator	14-SOIC	1018.88/1,000		
LM2574N-ADJ-ND	Adjustable 500mA Step-Down Switch Regulator	8-Dip	2.47	1.84	1.36
LM2574N-5.0-ND	5V, 500mA Step-Down Switch Regulator	8-Dip	2.47	1.84	1.36
LM2574N-12-ND	12V, 500mA Step-Down Switch Regulator	8-Dip	2.47	1.84	1.36
LM2574N-15-ND	15V, 500mA Step-Down Switch Regulator	8-Dip	2.47	1.84	1.36
LM2575HVM-ADJ-ND	Adjustable 1A Step-Down Switch Regulator	24-SOIC	5.20	3.96	3.02
LM2575HVM-12-ND	12V, Simple Switcher 1A Step-Down Voltage Regulator	24-SOIC	5.20	3.96	3.02
LM2575HVN-5.0-ND	5V, 1A Step-Down Switch Regulator	16-Dip	5.20	3.96	3.02
LM2575HVS-ADJ-ND	Adj., Simple Switcher 1A Step-Down Voltage Regulator	TO-263-5	5.20	3.96	3.02
LM2575HVS-3.3-ND	3.3V, Simple Switcher 1A Step-Down Voltage Regulator	TO-263-5	5.20	3.96	3.02
LM2575HVS-5.0-ND	5V, Simple Switcher 1A Step-Down Voltage Regulator	TO-263-5	5.20	3.96	3.02
LM2575HVS-12-ND	12V, Simple Switcher 1A Step-Down Voltage Regulator	TO-263-5	5.20	3.96	3.02
LM2575HVS-15-ND	15V, Simple Switcher 1A Step-Down Voltage Regulator	TO-263-5	5.20	3.96	3.02
LM2575HVT-ADJ-ND	Adjustable 1A Step-Down Switch Regulator	TO-220	5.20	3.96	3.02
LM2575HVT-3.3-ND	3.3V, Simple Switcher 1A Step-Down Voltage Regulator	TO-220-5	5.20	3.96	3.02
LM2575HVT-5.0-ND	5V, 1A Step-Down Switch Regulator, High Voltage	TO-220	5.20	3.96	3.02
LM2575HVT-12-ND	12V, 1A Step-Down Switch Regulator	TO-220	5.20	3.96	3.02
LM2575HVT-15-ND	15V, 1A Step-Down Switch Regulator	TO-220	5.20	3.96	3.02
LM2575M-3.3-ND	3.3V, Simple Switcher 1A Step-Down Voltage Regulator	24-SOIC	2.58	1.96	1.50
LM2575M-5.0-ND	5V, 1A Step-Down Switch Regulator	24-SOIC	2.58	1.96	1.50
LM2575M-12-ND	12V, Simple Switcher 1A Step-Down Voltage Regulator	24-SOIC	2.58	1.96	1.50
LM2575M-15-ND	15V, Simple Switcher 1A Step-Down Voltage Regulator	24-SOIC	2.58	1.96	1.50
LM2575N-ADJ-ND	Adjustable 1A Step-Down Switch Regulator	16-Dip	3.43	2.61	1.99
LM2575N-5.0-ND	5V, 1A Step-Down Switch Regulator	16-Dip	3.43	2.61	1.99
LM2575N-12-ND	12V, 1A Step-Down Switch Regulator	16-Dip	3.43	2.61	1.99
LM2575S-ADJ-ND	Adj., Simple Switcher 1A Step-Down Voltage Regulator	TO-263-5	2.90	2.21	1.69
LM2575S-3.3-ND	3.3V, Simple Switcher 1A Step-Down Voltage Regulator	TO-263-5	2.90	2.21	1.69
LM2575S-5.0-ND	5V, Simple Switcher 1A Step-Down Voltage Regulator	TO-263-5	2.90	2.21	1.69
LM2575S-12-ND	12V, Simple Switcher 1A Step-Down Voltage Regulator	TO-263-5	2.90	2.21	1.69
LM2575T-ADJNS-ND	Adjustable 1A Step-Down Switch Regulator	TO-220	2.58	1.96	1.50
LM2575T-3.3-ND	3.3V, 1A Step-Down Switch Regulator	TO-220	2.58	1.96	1.50
LM2575T-5.0-ND	5V, 1A Step-Down Switch Regulator	TO-220	2.58	1.96	1.50

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM2575T-12-ND	12V, 1A Step-Down Switch Regulator	TO-220	2.58	1.96	1.50
LM2575T-15-ND	15V, 1A Step-Down Switch Regulator	TO-220	2.58	1.96	1.50
LM2576HVS-ADJ-ND	Adjustable 3A Step-Down Switch Regulator	TO-263	5.85	4.45	3.40
LM2576HVS-3.3-ND	3.3V, Simple Switcher 3A Step-Down Voltage Regulator	TO-263-5	5.85	4.45	3.40
LM2576HVS-5.0-ND	5V, Simple Switcher 3A Step-Down Voltage Regulator	TO-263-5	5.85	4.45	3.40
LM2576HVT-ADJ-ND	Adjustable 3A Step-Down Switch Regulator	TO-220-5	5.85	4.45	3.40
LM2576HVT-3.3-ND	3.3V, Simple Switcher 3A Step-Down Voltage Regulator	TO-220-5	5.85	4.45	3.40
LM2576HVT-5.0-ND	5V, 3A Step-Down Regulator (High Voltage)	TO-220	5.85	4.45	3.40
LM2576HVT-12-ND	12V, 3A Step-Down Regulator (High Voltage)	TO-220	5.85	4.45	3.40
LM2576HVT-15-ND	15V, 3A Step-Down Regulator (High Voltage)	TO-220	5.85	4.45	3.40
LM2576S-ADJ-ND	Adj., Simple Switcher 3A Step-Down Voltage Regulator	TO-263-5	3.23	2.46	1.88
LM2576S-3.3-ND	3.3V, Simple Switcher 3A Step-Down Voltage Regulator	TO-263-5	3.23	2.46	1.88
LM2576S-5.0-ND	5V, Simple Switcher 3A Step-Down Voltage Regulator	TO-263-5	3.23	2.46	1.88
LM2576S-12-ND	12V, Simple Switcher 3A Step-Down Voltage Regulator	TO-263-5	3.23	2.46	1.88
LM2576S-15-ND	15V, Simple Switcher 3A Step-Down Voltage Regulator	TO-263-5	3.23	2.46	1.88
LM2576T-ADJNS-ND	Adjustable 3A Step-Down Voltage Regulator	TO-220-5	3.20	2.44	1.86
LM2576T-3.3NS-ND	3.3V, Simple Switcher 3A Step-Down Voltage Regulator	TO-220-5	3.20	2.44	1.86
LM2576T-5.0-ND	5V, 3A Step-Down Switch Regulator	TO-220	3.20	2.44	1.86
LM2576T-12-ND	12V, 3A Step-Down Simple Switch Regulator	TO-220	3.20	2.44	1.86
LM2576T-15-ND	15V, Simple Switcher 3A Step-Down Voltage Regulator	TO-220-5	3.20	2.44	1.86
LM2577M-ADJ-ND	Adjustable 3A Step-Up Switch Regulator	24-SOIC	5.57	4.40	3.53
LM2577N-ADJ-ND	Adjustable 3A Step-Up Switch Regulator	16-Dip	5.57	4.40	3.53
LM2577N-12-ND	12V, 3A Step-Up Switch Regulator	16-Dip	5.57	4.40	3.53
LM2577N-15-ND	15V, 3A Step-Up Switch Regulator	16-Dip	5.57	4.40	3.53
LM2577S-ADJ-ND	Adj. Simple Switcher Step-Up Voltage Regulator	TO-263-5	5.57	4.40	3.53
LM2577S-12-ND	12V, Simple Switcher Step-Up Voltage Regulator	TO-263-5	5.57	4.40	3.53
LM2577S-15-ND	15V, Simple Switcher Step-Up Voltage Regulator	TO-263-5	5.57	4.40	3.53
LM2577T-ADJ-ND	Adjustable 3A Step Up Switch Voltage Regulator	TO-220-5	5.57	4.40	3.53
LM2577T-12-ND	12V, 3A Step-Up Switch Regulator	TO-220	5.57	4.40	3.53
LM2577T-15-ND	15V, 3A Step-Up Switch Regulator	TO-220	5.57	4.40	3.53
LM2578AM-ND	750mA Switching Regulator	8-SOIC	3.03	2.30	1.76
LM2578AN-ND	750mA Switching Regulator	8-Dip	3.03	2.30	1.76
LM2585S-ADJ-ND	Adj. Simple Switcher 3A Flyback Regulator	TO-263-5	6.32	5.00	4.01
LM2585S-3.3-ND	3.3V, Simple Switcher 3A Flyback Regulator	TO-263-5	6.32	5.00	4.01
LM2585S-5.0-ND	5V, Simple Switcher 3A Flyback Regulator	TO-263-5	6.32	5.00	4.01
LM2585S-12-ND	12V, Simple Switcher 3A Flyback Regulator	TO-263-5	6.32	5.00	4.01
LM2585T-ADJ-ND	Adj. Simple Switcher 3A Flyback Voltage Regulator	TO-220-5	6.32	5.00	4.01
LM2585T-3.3-ND	3.3V, Simple Switcher 3A Flyback Regulator	TO-220-5	6.32	5.00	4.01
LM2585T-5.0-ND	5V, Simple Switcher 3A Flyback Regulator	TO-220-5	6.32	5.00	4.01
LM2585T-12-ND	12V, Simple Switcher 3A Flyback Regulator	TO-220-5	6.32	5.00	4.01
LM2586S-ADJ-ND	Adj. Simple Switcher 3A Flyback Reg. with Shutdown	TO-263-7	6.53	5.17	4.14
LM2586S-3.3-ND	3.3V Simple Switcher 3A Flyback Reg. with Shutdown	TO-263-7	6.53	5.17	4.14
LM2586S-5.0-ND	5V, Simple Switcher 3A Flyback Reg. with Shutdown	TO-263-7	6.53	5.17	4.14
LM2586S-12-ND	12V, Simple Switcher 3A Flyback Reg. with Shutdown	TO-263-7	6.53	5.17	4.14
LM2586T-ADJ-ND	Adj. Simple Switcher 3A Flyback Reg. with Shutdown	TO-220-7	6.53	5.17	4.14
LM2586T-3.3-ND	3.3V, Simple Switcher 3A Flyback Reg. with Shutdown	TO-220-7	6.53	5.17	4.14
LM2586T-5.0-ND	5V, Simple Switcher 3A Flyback Reg. with Shutdown	TO-220-7	6.53	5.17	4.14
LM2586T-12-ND	12V, Simple Switcher 3A Flyback Reg. with Shutdown	TO-220-7	6.53	5.17	4.14
LM2587EVAL-ND	Evaluation Board for LM2587	—	43.80	—	—
LM2587S-ADJ-ND	Adj. Simple Switcher 5A Flyback Regulator	TO-263-5	8.32	6.58	5.27
LM2587S-3.3-ND	3.3V, Simple Switcher 5A Flyback Regulator	TO-263-5	8.32	6.58	5.27
LM2587S-5.0-ND	5V, Simple Switcher 5A Flyback Regulator	TO-263-5	8.32	6.58	5.27
LM2587T-ADJ-ND	Adj. Simple Switcher 5A Flyback Regulator	TO-220-5	8.32	6.58	5.27
LM2587T-3.3-ND	3.3V, Simple Switcher 5A Flyback Regulator	TO-220-5	8.32	6.58	5.27
LM2587T-5.0-ND	5V, Simple Switcher 5A Flyback Regulator	TO-220-5	8.32	6.58	5.27
LM2587T-12-ND	12V, Simple Switcher 5A Flyback Regulator	TO-220-5	8.32	6.58	5.27
LM2588S-ADJ-ND	Adjustable Volt. 5A Simple Switcher, Flyback Regulator	TO-263	8.99	7.11	5.70
LM2588S-3.3-ND	3.3V, Simple Switcher 5A Flyback Regulator ***NEW!***	TO-263-7	8.99	7.11	5.70
LM2588S-5.0-ND	5V, Simple Switcher 5A Flyback Regulator ***NEW!***	TO-263-7	8.99	7.11	5.70
LM2588S-12-ND	12V, Simple Switcher 5A Flyback Regulator	TO-263	8.99	7.11	5.70
LM2588T-ADJ-ND	Adj. Simple Switcher 5A Flyback Regulator	TO-220-7	8.99	7.11	5.70
LM2588T-5.0-ND	5V, Simple Switcher 5A Flyback Regulator	TO-220-7	8.99	7.11	5.70
LM2588T-12-ND	12V, Simple Switcher 5A Flyback Regulator	TO-220-7	8.99	7.11	5.70
LM2590HVS-ADJ-ND	Adj., Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263-7	5.38	4.09	3.12
LM2590HVS-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263-7	5.38	4.09	3.12
LM2590HVS-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263-7	5.38	4.09	3.12
LM2590HVT-ADJ-ND	Adj., Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-7	5.38	4.09	3.12
LM2590HVT-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-7	5.38	4.09	3.12
LM2590HVT-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-7	5.38	4.09	3.12
LM2591HVS-ADJ-ND	Adj., Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263-5	5.10	3.88	2.96
LM2591HVS-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263-5	5.10	3.88	2.96
LM2591HVS-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263-5	5.10	3.88	2.96
LM2591HVT-ADJ-ND	Adj., Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-5	5.10	3.88	2.96
LM2591HVT-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-5	5.10	3.88	2.96
LM2591HVT-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-5	5.10	3.88	2.96
LM2592HVS-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 2A, Step-Down Voltage Regulator	TO-263-5	6.10	4.64	3.54
LM2592HVS-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 2A, Step-Down Voltage Regulator	TO-263-5	6.10	4.64	3.54
LM2592HVS-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 2A, Step-Down Voltage Regulator	TO-263-5	6.10	4.64	3.54
LM2592HVT-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 2A, Step-Down Voltage Regulator	TO-220-5	6.10	4.64	3.54
LM2592HVT-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 2A, Step-Down Voltage Regulator	TO-220-5	6.10	4.64	3.54
LM2592HVT-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 2A, Step-Down Voltage Regulator	TO-220-5	6.10	4.64	3.54
LM2593HVS-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz 2A, Step-Down Voltage Regulator	TO-263-7	5.38	4.25	3.41
LM2593HVS-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 2A, Step-Down Voltage Regulator	TO-263-7	5.38	4.25	3.41
LM2593HVS-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 2A, Step-Down Voltage Regulator	TO-263-7	5.38	4.25	3.41
LM2593HVT-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 2A, Step-Down Voltage Regulator	TO-220-7	5.38	4.25	3.41
LM2593HVT-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 2A, Step-Down Voltage Regulator	TO-220-7	5.38	4.25	3.41
LM2593HVT-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 2A, Step-Down Voltage Regulator	TO-220-7	5.38	4.25	3.41
LM2594HVM-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	4.63	3.52	2.69
LM2594HVM-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	4.63	3.52	2.69
LM2594HVM-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	4.63	3.52	2.69
LM2594HVM-12-ND	12V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	4.63	3.52	2.69
LM2594HVN-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	4.63	3.52	2.69
LM2594HVN-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	4.63	3.52	2.69
LM2594HVN-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	4.63	3.52	2.69
LM2594HVN-12-ND	12V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	4.63	3.52	2.69
LM2594M-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	3.05	2.32	1.77
LM2594M-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	3.05	2.32	1.77
LM2594M-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	3.05	2.32	1.77
LM2594M-12-ND	12V, Simple Switcher Power Converter, 150KHz, Step-Down Voltage Regulator	8-SOIC	3.05	2.32	1.77
LM2594MX-5.0TR-ND	5V, Simple Switcher Power Converter, 150KHz, 0.5A , Step-Down Voltage Regulator	8-SOIC	3812.50/2,500		
LM2594N-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	3.05	2.32	1.77
LM2594N-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	3.05	2.32	1.77
LM2594N-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	3.05	2.32	1.77
LM2594N-12-ND	12V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	3.05	2.32	1.77
LM2595S-ADJ-ND	Adj., Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	TO-263-5	3.85	2.93	2.24
LM2595S-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263-5	3.85	2.93	2.24
LM2595S-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263-5	3.85	2.93	2.24
LM2595S-12-ND	12V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263-5	3.85	2.93	2.24
LM2595T-ADJ-ND	Adj. Power Converter, 150kHz, 1A, Step-Down Volt. Reg.	TO-220	3.85	2.93	2.24
LM2595T-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-5	3.85	2.93	2.24
LM2595T-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-5	3.85	2.93	2.24
LM2595T-12-ND	12V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-5	3.85	2.93	2.24
LM2596S-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-263-5	4.30	3.27	2.50
LM2596S-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-263-5	4.30	3.27	2.50
LM2596S-5.0-ND	5V, Power Converter 150KHz 3A Step-Down Volt. Reg.	TO-263	4.30	3.27	2.50
LM2596S-12-ND	12V, Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-263-5	4.30	3.27	2.50
LM2596SX-5.0TR-ND	5V, Power Converter 150KHz 3A Step-Down Volt. Reg.	TO-263	1096.50/500		
LM2596T-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-220-5	4.30	3.27	2.50
LM2596T-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-220-5	4.30	3.27	2.50
LM2596T-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-220-5	4.30	3.27	2.50
LM2596T-12-ND	12V, Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-220-5	4.30	3.27	2.50
LM2597HVM-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	4.75	3.61	2.76
LM2597HVM-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	4.75	3.61	2.76
LM2597HVM-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	4.75	3.61	2.76
LM2597HVM-12-ND	12V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	4.75	3.61	2.76
LM2597HVN-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597HVN-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597HVN-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597HVN-12-ND	12V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	4.75	3.61	2.76
LM2597M-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	3.78	2.87	2.19
LM2597M-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	3.78	2.87	2.19
LM2597M-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	3.78	2.87	2.19
LM2597M-12-ND	12V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-SOIC	3.78	2.87	2.19

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM2597N-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	3.78	2.87	2.19
LM2597N-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	3.78	2.87	2.19
LM2597N-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	3.78	2.87	2.19
LM2597N-12-ND	12V, Simple Switcher Power Converter, 150KHz, 0.5A, Step-Down Voltage Regulator	8-Dip	3.78	2.87	2.19
LM2598S-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz 1A, Step-Down Voltage Regulator	TO-263-7	4.45	3.39	2.59
LM2598S-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263-7	4.45	3.39	2.59
LM2598S-5.0-ND	5V, Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263	4.45	3.39	2.59
LM2598S-12-ND	12V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-263-7	4.45	3.39	2.59
LM2598T-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2598T-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2598T-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2598T-12-ND	12V, Simple Switcher Power Converter, 150KHz, 1A, Step-Down Voltage Regulator	TO-220-7	4.45	3.39	2.59
LM2599S-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-263-7	5.13	3.90	2.98
LM2599S-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-263-7	5.13	3.90	2.98
LM2599S-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-263-7	5.13	3.90	2.98
LM2599S-12-ND	12V, Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-263-7	5.13	3.90	2.98
LM2599T-ADJ-ND	Adj. Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-220-7	5.13	3.90	2.98
LM2599T-3.3-ND	3.3V, Simple Switcher Power Converter, 150KHz 3A, Step-Down Voltage Regulator	TO-220-7	5.13	3.90	2.98
LM2599T-5.0-ND	5V, Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-220-7	5.13	3.90	2.98
LM2599T-12-ND	12V, Simple Switcher Power Converter, 150KHz, 3A, Step-Down Voltage Regulator	TO-220-7	5.13	3.90	2.98
LM2608ATL-1.3CT-ND	400mA Sub-Miniature, Programmable Step-Down DC-DC Converter	10-microSMD	3.33	2.53	1.93
LM2608ATL-1.3TR-ND	400mA Sub-Miniature, Programmable Step-Down DC-DC Converter	10-microSMD	442.23/250		
LM2608ATL-1.8CT-ND	400mA Sub-Miniature, Programmable Step-Down DC-DC Converter	10-microSMD	3.33	2.53	1.93
LM2608ATL-1.8TR-ND	400mA Sub-Miniature, Programmable Step-Down DC-DC Converter	10-microSMD	442.23/250		
LM2611AMFCT-ND	1.4MHz Cuk Converter	SOT-23-5	2.73	2.08	1.59
LM2611AMFTR-ND	1.4MHz Cuk Converter	SOT-23-5	1373.40/1,000		
LM2611BMFCT-ND	1.4MHz Cuk Converter	SOT-23-5	2.90	2.16	1.59
LM2611BMFTR-ND	1.4MHz Cuk Converter	SOT-23-5	1196.80/1,000		
LM2612ABLCT-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	3.33	2.53	1.93
LM2612ABLTR-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	442.23/250		
LM2612ABPCT-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	3.33	2.53	1.93
LM2612ABPTR-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	442.23/250		
LM2612ATLCT-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	3.33	2.53	1.93
LM2612ATLTR-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	442.23/250		
LM2612BBLCT-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	2.85	2.17	1.66
LM2612BBLTR-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	379.05/250		
LM2612BBPCT-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	2.85	2.17	1.66
LM2612BBPTR-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	379.05/250		
LM2612BTLCT-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	2.85	2.17	1.66
LM2612BTLTR-ND	400mA Sub-Miniature, Programmable, Step-Down DC-DC Converter	10-microSMD	379.05/250		
LM2614ATLCT-ND	400mA Adjustable DC-DC Converter for RF Power Amp	10-microSMD	3.33	2.53	1.93
LM2614ATLTR-ND	400mA Adjustable DC-DC Converter for RF Power Amp	10-microSMD	442.23/250		
LM2614BTLCT-ND	400mA Adjustable DC-DC Converter for RF Power Amp	10-microSMD	2.85	2.17	1.66
LM2614BTLTR-ND	400mA Adjustable DC-DC Converter for RF Power Amp	10-microSMD	379.05/250		
LM2618ATLCT-ND	400mA, High Efficiency Sync. PWM and PFM Programmable DC-DC Converter	10-microSMD	3.33	2.53	1.93
LM2618ATLTR-ND	400mA, High Efficiency Sync. PWM and PFM Programmable DC-DC Converter	10-microSMD	442.23/250		
LM2618BTLCT-ND	400mA, High Efficiency Sync. PWM and PFM Programmable DC-DC Converter	10-microSMD	2.85	2.17	1.66
LM2618BTLTR-ND	400mA, High Efficiency Sync. PWM and PFM Programmable DC-DC Converter	10-microSMD	379.05/250		
LM2619ATLCT-ND	500mA Step-Down DC-DC Converter	10-microSMD	2.85	2.17	1.66
LM2619ATLTR-ND	500mA Step-Down DC-DC Converter	10-microSMD	379.05/250		
LM2619MTC-ND	500mA Step-Down DC-DC Converter	14-TSSOP	3.35	2.55	1.95
LM2621MMCT-ND	Low Input Step-Up DC-DC Converter	8-MSOP	1.98	1.47	1.09
LM2621MMTR-ND	Low Input Step-Up DC-DC Converter	8-MSOP	816.64/1,000		
LM2622MM-ADJCT-ND	600kHz/1.3MHz Step-Up PWM DC-DC Converter	8-MSOP	2.73	2.08	1.59
LM2622MM-ADJTR-ND	600kHz/1.3MHz Step-Up PWM DC-DC Converter	8-MSOP	1373.40/1,000		
LM2623ALDCT-ND	Ratio Adaptive DC-DC Boost Converter	14-LLP	2.60	1.98	1.51
LM2623ALDTR-ND	Ratio Adaptive DC-DC Boost Converter	14-LLP	1310.40/1,000		
LM2623AMMCT-ND	General Purpose Low Vin, Low Ripple DC-DC Boost Converter	8-MSOP	2.60	1.98	1.51
LM2623AMMTR-ND	General Purpose Low Vin, Low Ripple DC-DC Boost Converter	8-MSOP	1310.40/1,000		
LM2623LDCT-ND	General Purpose Low Vin, Low Ripple DC-DC Boost Converter	14-LLP	2.56	1.91	1.41
LM2623LDTR-ND	General Purpose Low Vin, Low Ripple DC-DC Boost Converter	14-LLP	1058.56/1,000		
LM2623MMCT-ND	General Purpose Low Vin, Low Ripple DC-DC Boost Converter	8-MSOP	2.56	1.91	1.41
LM2623MMTR-ND	GP Low Vin, Low Ripple DC-DC Boost Converter	8-MSOP	1058.56/1,000		
LM2633MTD-ND	2 Phase Sync. Triple Regulator Controller	48-TSSOP	6.18	4.70	3.59
LM2635M-ND	5-Bit Programmable Sync. Buck Regulator Controller	20-SOIC	3.85	2.93	2.24
LM2635MXTR-ND	5-Bit Programmable Sync. Buck Regulator Controller	20-SOIC	1940.40/1,000		
LM2636M-ND	5-Bit Programmable Sync. Buck Regulator Controller	20-SOIC	3.40	2.59	1.98
LM2636MTC-ND	5-Bit Programmable Sync. Buck Regulator Controller	20-TSSOP	3.40	2.59	1.98
LM2637M-ND	Motherboard Power Supply Solution	24-SOIC	4.48	3.41	2.60
LM2638M-ND	Motherboard Power Supply Solution	24-SOIC	4.48	3.41	2.60
LM2639M-ND	5-Bit Program, Hi Freq. Multiphase PWM Controller	24-SOIC	6.05	4.60	3.51
LM2640MTC-ADJ-ND	Dual Adj. Step-Down Switching Power Supply Controller, Switching Freq. 200KHz	28-TSSOP	6.78	5.37	4.30
LM2641MTC-ADJ-ND	Dual Adj. Step-Down Switching Power Supply Controller, Switching Freq. 300KHz	28-TSSOP	7.14	5.65	4.53
LM2642MTC-ND	2-Phase Sync. Step-Down Switching Controller	28-TSSOP	4.28	3.25	2.48
LM2645MTD-ND	Dual Output 2-Phase Switching Controller	48-TSSOP	6.18	4.70	3.59
LM2647LQCT-ND	Dual Sync. Buck Regulator	28-LLP	4.53	3.44	2.63
LM2647LQTR-ND	Dual Sync. Buck Regulator	28-LLP	2280.60/1,000		
LM2647MTC-ND	Dual Sync. Buck Regulator	28-TSSOP	4.53	3.44	2.63
LM2650EVAL-ND	Evaluation Board for LM2650X	—	53.55	—	—
LM2650M-ADJ-ND	Synchronous Step Down DC-DC Converter	24-SOIC	7.27	5.75	4.61
LM2651MTC-ADJ-ND	Adj. 1.5A, High Efficiency Sync. Switching Regulator	16-TSSOP	4.00	3.04	2.32
LM2651MTC-1.8-ND	1.8V, 1.5A, High Efficiency Sync. Switching Regulator	16-TSSOP	4.00	3.04	2.32
LM2651MTC-2.5-ND	2.5V, 1.5A, High Efficiency Sync. Switching Regulator	16-TSSOP	4.00	3.04	2.32
LM2651MTC-3.3-ND	3.3V, 1.5A, High Efficiency Sync. Switching Regulator	16-TSSOP	4.00	3.04	2.32
LM2653MTC-ADJ-ND	Adj. 1.5A, High Efficiency Sync. Switching Regulator	16-TSSOP	4.63	3.52	2.69
LM2655MTC-ADJ-ND	Adj. 2.5A, High Efficiency Sync. Switching Regulator	16-TSSOP	4.00	3.04	2.32
LM2655MTC-3.3-ND	3.3V, 2.5A, High Efficiency Sync. Switching Regulator	16-TSSOP	4.00	3.04	2.32
LM2657MTC-ND	Dual Sync. Buck Regulator Controller	28-TSSOP	4.53	3.44	2.63
LM2660M-ND	100mA, Switched Capacitor Converter	8-SOIC	2.05	1.52	1.13
LM2661M-ND	100mA, Switched Capacitor Converter with Shutdown	8-SOIC	2.05	1.52	1.13
LM2662M-ND	Switched Capacitor Voltage Converter	8-SOIC	2.64	1.96	1.45
LM2663M-ND	Switched Capacitor Voltage Converter	8-SOIC	2.64	1.96	1.45
LM2664M6CT-ND	Switched Capacitor Voltage Converter, 91% Eff.	SOT-23-6	1.20	.88	.64
LM2664M6TR-ND	Switched Capacitor Voltage Converter, 91% Eff.	SOT-23-6	416.00/1,000		
LM2665M6CT-ND	Switched Capacitor Voltage Converter, 90% Eff.	SOT-23-6	1.24	.91	.66
LM2665M6TR-ND	Switched Capacitor Voltage Converter, 90% Eff.	SOT-23-6	429.00/1,000		
LM2670S-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step-Down Regulator with Sync.	TO-263-7	4.70	3.58	2.73
LM2670S-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator with Sync.	TO-263-7	4.70	3.58	2.73
LM2670S-5.0-ND	5V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator with Sync.	TO-263-7	4.70	3.58	2.73
LM2670S-12-ND	12V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator with Sync.	TO-263-7	4.70	3.58	2.73
LM2670SD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator with Sync.	14-LLP	4.70	3.58	2.73
LM2670SD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator with Sync.	14-LLP	625.10/250		
LM2670SD-5.0CT-ND	5V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator with Sync.	14-LLP	4.70	3.58	2.73
LM2670SD-5.0TR-ND	5V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator with Sync.	14-LLP	625.10/250		
LM2670SD-12CT-ND	12V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator with Sync.	14-LLP	4.70	3.58	2.73
LM2670SD-12TR-ND	12V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator with Sync.	14-LLP	625.10/250		
LM2670SD-ADJCT-ND	Adj., Simple Switcher High Efficiency 3A Step-Down Voltage Regulator with Sync.	14-LLP	4.70	3.58	2.73
LM2670SD-ADJTR-ND	Adj., Simple Switcher High Efficiency 3A Step-Down Voltage Regulator with Sync.	14-LLP	625.10/250		
LM2670T-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step-Down Regulator with Sync.	TO-220-7	4.70	3.58	2.73
LM2670T-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step-Down Regulator with Sync.	TO-220-7	4.70	3.58	2.73
LM2670T-5.0-ND	5V, Simple Switcher High Efficiency 3A Step-Down Regulator with Sync.	TO-220-7	4.70	3.58	2.73
LM2670T-12-ND	12V, Simple Switcher High Efficiency 3A Step-Down Regulator with Sync.	TO-220-7	4.70	3.58	2.73
LM2671LD-ADJCT-ND	Adj. Simple Switcher High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-ADJTR-ND	Adj. Simple Switcher High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	1650.60/1,000		
LM2671LD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	1650.60/1,000		
LM2671LD-5.0CT-ND	5V, Simple Switcher High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-5.0TR-ND	5V, Simple Switcher High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	1650.60/1,000		
LM2671LD-12CT-ND	12V, Simple Switcher High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	3.28	2.49	1.90
LM2671LD-12TR-ND	12V, Simple Switcher High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	1650.60/1,000		
LM2671M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671M-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671M-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671M-12-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-SOIC	3.28	2.49	1.90
LM2671N-ADJ-ND	Adj. Simple Switcher Power Converter High Effiecency 500mA Step-Down Voltage Regulator	8-Dip	3.28	2.49	1.90
LM2671N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-Dip	3.28	2.49	1.90

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM2671N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-Dip	3.28	2.49	1.90
LM2671N-12-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-Dip	3.28	2.49	1.90
LM2672LD-ADJCT-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-ADJTR-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	2104.20/1,000		
LM2672LD-3.3CT-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-3.3TR-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	2104.20/1,000		
LM2672LD-5.0CT-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-5.0TR-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	2104.20/1,000		
LM2672LD-12CT-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	4.18	3.18	2.43
LM2672LD-12TR-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	2104.20/1,000		
LM2672M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672M-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672M-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672M-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-SOIC	4.18	3.18	2.43
LM2672N-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2672N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2672N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2672N-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-Dip	4.18	3.18	2.43
LM2673S-ADJ-ND	Adj. Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673S-3.3-ND	3.3V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673S-5.0-ND	5V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673S-12-ND	12V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	TO-263-7	4.70	3.58	2.73
LM2673SD-3.3CT-ND	3.3V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	14-LLP	4.70	3.58	2.73
LM2673SD-3.3TR-ND	3.3V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	14-LLP	625.10/250		
LM2673SD-5.0CT-ND	5V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	14-LLP	4.70	3.58	2.73
LM2673SD-5.0TR-ND	5V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	14-LLP	625.10/250		
LM2673SD-12CT-ND	12V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	14-LLP	4.70	3.58	2.73
LM2673SD-12TR-ND	12V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	14-LLP	625.10/250		
LM2673SD-ADJCT-ND	Adj., Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	14-LLP	4.70	3.58	2.73
LM2673SD-ADJTR-ND	Adj., Simple Switcher 3A Step Down Voltage Regulator with Adj. Current Limit	14-LLP	625.10/250		
LM2673T-ADJ-ND	Adj. Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2673T-3.3-ND	3.3V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2673T-5.0-ND	5V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2673T-12-ND	12V, Simple Switcher 3A Step-Down Voltage Regulator with Adj. Current Limit	TO-220-7	4.70	3.58	2.73
LM2674LD-ADJCT-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-ADJTR-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	1562.40/1,000		
LM2674LD-3.3CT-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-3.3TR-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	1562.40/1,000		
LM2674LD-5.0CT-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-5.0TR-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	1562.40/1,000		
LM2674LD-12CT-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	3.10	2.36	1.80
LM2674LD-12TR-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	16-LLP	1562.40/1,000		
LM2674M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-SOIC	3.10	2.36	1.80
LM2674M-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-SOIC	3.10	2.36	1.80
LM2674M-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-SOIC	3.10	2.36	1.80
LM2674M-12-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-SOIC	3.10	2.36	1.80
LM2674N-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2674N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2674N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2674N-12-ND	12V, Simple Switcher Power Converter High Efficiency 500mA Step-Down Voltage Regulator	8-Dip	3.10	2.36	1.80
LM2675LD-ADJCT-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-ADJTR-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	2016.00/1,000		
LM2675LD-3.3CT-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-3.3TR-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	2016.00/1,000		
LM2675LD-5.0CT-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-5.0TR-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	2016.00/1,000		
LM2675LD-12CT-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	4.00	3.04	2.32
LM2675LD-12TR-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	16-LLP	2016.00/1,000		
LM2675M-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-5.0-ND	5V, High-Efficiency Switcher, 1A, Step-Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675M-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-SOIC	4.00	3.04	2.32
LM2675N-ADJ-ND	Adj. Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2675N-3.3-ND	3.3V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2675N-5.0-ND	5V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2675N-12-ND	12V, Simple Switcher Power Converter High Efficiency 1A Step-Down Voltage Regulator	8-Dip	4.00	3.04	2.32
LM2676S-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676S-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676S-5.0-ND	5V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676S-12-ND	12V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	TO-263-7	4.48	3.41	2.60
LM2676SD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	14-LLP	4.48	3.41	2.60
LM2676SD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	14-LLP	595.18/250		
LM2676SD-5.0CT-ND	5V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	14-LLP	4.48	3.41	2.60
LM2676SD-5.0TR-ND	5V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	14-LLP	595.18/250		
LM2676SD-12CT-ND	12V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	14-LLP	4.48	3.41	2.60
LM2676SD-12TR-ND	12V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	14-LLP	595.18/250		
LM2676SD-ADJCT-ND	Adj., Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	14-LLP	4.48	3.41	2.60
LM2676SD-ADJTR-ND	Adj., Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	14-LLP	595.18/250		
LM2676T-ADJ-ND	Adj. Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2676T-3.3-ND	3.3V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2676T-5.0-ND	5V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2676T-12-ND	12V, Simple Switcher High Efficiency 3A Step-Down Voltage Regulator	TO-220-7	4.48	3.41	2.60
LM2677S-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	TO-263-7	7.50	5.93	4.75
LM2677S-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	TO-263-7	7.50	5.93	4.75
LM2677S-5.0-ND	5V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	TO-263-7	7.50	5.93	4.75
LM2677S-12-ND	12V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	TO-263-7	7.50	5.93	4.75
LM2677SD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	14-LLP	7.50	5.93	4.75
LM2677SD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	14-LLP	1133.48/250		
LM2677SD-5.0CT-ND	5V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	14-LLP	7.50	5.93	4.75
LM2677SD-5.0TR-ND	5V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	14-LLP	1133.48/250		
LM2677SD-12CT-ND	12V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	14-LLP	7.50	5.93	4.75
LM2677SD-12TR-ND	12V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	14-LLP	1133.48/250		
LM2677SD-ADJCT-ND	Adj., Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	14-LLP	7.50	5.93	4.75
LM2677SD-ADJTR-ND	Adj., Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	14-LLP	1133.48/250		
LM2677T-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	TO-220-7	7.50	5.93	4.75
LM2677T-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	TO-220-7	7.50	5.93	4.75
LM2677T-5.0-ND	5V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	TO-220-7	7.50	5.93	4.75
LM2677T-12-ND	12V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator with Sync.	TO-220-7	7.50	5.93	4.75
LM2678S-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	TO-263-7	6.24	4.94	3.96
LM2678S-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	TO-263-7	6.24	4.94	3.96
LM2678S-5.0-ND	5V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	TO-263-7	6.24	4.94	3.96
LM2678S-12-ND	12V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	TO-263-7	6.24	4.94	3.96

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM2678SD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	14-LLP	6.24	4.94	3.96
LM2678SD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	14-LLP	942.98/250		
LM2678SD-5.0CT-ND	5V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	14-LLP	6.24	4.94	3.96
LM2678SD-5.0TR-ND	5V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	14-LLP	942.98/250		
LM2678SD-12CT-ND	12V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	14-LLP	6.24	4.94	3.96
LM2678SD-12TR-ND	12V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	14-LLP	942.98/250		
LM2678SD-ADJCT-ND	Adj., Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	14-LLP	6.24	4.94	3.96
LM2678SD-ADJTR-ND	Adj., Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	14-LLP	942.98/250		
LM2678T-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	TO-220-7	6.24	4.94	3.96
LM2678T-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	TO-220-7	6.24	4.94	3.96
LM2678T-5.0-ND	5V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	TO-220-7	6.24	4.94	3.96
LM2678T-12-ND	12V, Simple Switcher High Efficiency 5A Step-Down Voltage Regulator	TO-220-7	6.24	4.94	3.96
LM2679S-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	TO-263-7	6.59	5.22	4.18
LM2679S-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	TO-263-7	6.59	5.22	4.18
LM2679S-5.0-ND	5V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	TO-263-7	6.59	5.22	4.18
LM2679S-12-ND	12V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	TO-263-7	6.59	5.22	4.18
LM2679SD-3.3CT-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	14-LLP	6.59	5.22	4.18
LM2679SD-3.3TR-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	14-LLP	996.95/250		
LM2679SD-5.0CT-ND	5V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	14-LLP	6.59	5.22	4.18
LM2679SD-5.0TR-ND	5V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	14-LLP	996.95/250		
LM2679SD-12CT-ND	12V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	14-LLP	6.59	5.22	4.18
LM2679SD-12TR-ND	12V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	14-LLP	996.95/250		
LM2679SD-ADJCT-ND	Adj., Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	14-LLP	6.59	5.22	4.18
LM2679SD-ADJTR-ND	Adj., Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	14-LLP	996.95/250		
LM2679T-ADJ-ND	Adj. Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	TO-220-7	6.59	5.22	4.18
LM2679T-3.3-ND	3.3V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	TO-220-7	6.59	5.22	4.18
LM2679T-5.0-ND	5V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	TO-220-7	6.59	5.22	4.18
LM2679T-12-ND	12V, Simple Switcher High Efficiency 5A Step-Down Regulator with Adj. Current Limit	TO-220-7	6.59	5.22	4.18
LM2681M6CT-ND	Switched Capacitor Voltage Converter	SOT-23-6	1.13	.83	.60
LM2681M6TR-ND	Switched Capacitor Voltage Converter	SOT-23-6	390.00/1,000		
LM2682M-ND	Switched Capacitor Voltage Doubling Inverter	8-SOIC	1.67	1.25	.92
LM2682MMCT-ND	Switched Capacitor Voltage Doubling Inverter	8-MSOP	1.67	1.25	.92
LM2682MMTR-ND	Switched Capacitor Voltage Doubling Inverter	8-MSOP	691.20/1,000		
LM2685MTC-ND	Dual Out Reg. Switched Capacitor Voltage Converter	14-TSSOP	2.83	2.15	1.64
LM2686MTC-ND	Regulated Switched Capacitor Voltage Converter	14-TSSOP	2.83	2.15	1.64
LM2687LDCT- ND	Low Noise Regulated Switched Capacitor Volt. Inverter	8-LLP	1.71	1.27	.94
LM2687LDTR-ND	Low Noise Regulated Switched Capacitor Volt. Inverter	8-LLP	704.00/1,000		
LM2687MMCT-ND	Low Noise Regulated Switched Capacitor Volt. Inverter	8-MSOP	1.71	1.27	.94
LM2687MMTR-ND	Low Noise Regulated Switched Capacitor Volt. Inverter	8-MSOP	704.00/1,000		
LM2695MH-ND	30V, 1.25A Step-Down Switching Regulator **NEW!**	14-TSSOP	3.58	2.72	2.08
LM2695SDCT-ND	30V, 1.25A Step-Down Switching Regulator **NEW!**	10-LLP	3.58	2.72	2.08
LM2695SDTR-ND	30V, 1.25A Step-Down Switching Regulator **NEW!**	10-LLP	1801.80/1,000		
LM2696MXA-ND	3A Constant On Time Buck Regulator **NEW!**	16-TSSOP	4.05	3.08	2.35
LM2698MM-ADJCT-ND	Adj., 1.35A Simple Switcher Boost Regulator	8-MSOP	4.35	3.31	2.53
LM2698MM-ADJTR-ND	Adj., 1.35A Simple Switcher Boost Regulator	8-MSOP	2192.40/1,000		
LM2700LD-ADJCT-ND	600KHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Converter	14-LLP	4.08	3.10	2.37
LM2700LD-ADJTR-ND	600KHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Converter	14-LLP	2053.80/1,000		
LM2700MT-ADJ-ND	600KHz/1.25MHz, 2.5A, Step-Up PWM DC-DC Converter	14-TSSOP	4.08	3.10	2.37
LM2702MT-ADJ-ND	TFT Panel Module	16-TSSOP	3.33	2.53	1.93
LM2703MF-ADJCT-ND	Adj. Micropower Step-Up DC-DC Converter	SOT-23-5	2.50	1.86	1.38
LM2703MF-ADJTR-ND	Adj. Micropower Step-Up DC-DC Converter	SOT-23-5	1034.24/1,000		
LM2704MF-ADJCT-ND	Adj. Micropower Step-Up DC-DC Converter	SOT-23-5	2.65	1.97	1.46
LM2704MF-ADJTR-ND	Adj. Micropower Step-Up DC-DC Converter	SOT-23-5	1094.40/1,000		
LM2705MF-ADJCT-ND	Step-Up DC-DC Converter w/150mA Peak Current Limit	SOT-23-5	2.41	1.80	1.33
LM2705MF-ADJTR-ND	Step-Up DC-DC Converter w/150mA Peak Current Limit	SOT-23-5	997.12/1,000		
LM2715MT-ADJ-ND	TFT Panel Module	16-TSSOP	3.10	2.36	1.80
LM2716MT-ND	Dual PWM DC-DC Converter	24-TSSOP	5.70	4.34	3.31
LM2717MT-ND	Dual Step-Down DC-DC Converter*	24-TSSOP	5.83	4.43	3.38
LM2722M-ND	High Speed Sync./Async. MOSFET Driver	8-SOIC	2.78	2.11	1.61
LM2724ALDCT-ND	High Speed 3A Synchronous MOSFET Driver	8-LLP	2.78	2.11	1.61
LM2724ALDTR-ND	High Speed 3A Synchronous MOSFET Driver	8-LLP	1398.60/1,000		
LM2724AM-ND	High Speed 3A Synchronous MOSFET Driver	8-SOIC	2.78	2.11	1.61
LM2724ASDCT-ND	High Speed 3A Synchronous MOSFET Driver	8-SOIC	2.78	2.11	1.61
LM2724ASDTR-ND	High Speed 3A Synchronous MOSFET Driver	8-SOIC	1398.60/1,000		
LM2724LDCT-ND	High Speed 3A Synchronous MOSFET Driver	8-LLP	2.78	2.11	1.61
LM2724LDTR-ND	High Speed 3A Synchronous MOSFET Driver	8-LLP	1398.60/1,000		
LM2724M-ND	High Speed 3A Synchronous MOSFET Driver	8-SOIC	2.78	2.11	1.61
LM2725M-ND	High Speed Synchronous MOSFET Driver	8-SOIC	2.85	2.17	1.66
LM2726M-ND	High Speed Synchronous MOSFET Driver	8-SOIC	3.23	2.46	1.88
LM2727MTC-ND	N-Ch. FET Sync. Buck Regulator Controller	14-TSSOP	2.98	2.27	1.73
LM2731XMFCT-ND	0.6/1.6MHz Boost Converter w/22V Internal FET Switch	SOT-23-5	2.58	1.96	1.50
LM2731XMFTR-ND	0.6/1.6MHz Boost Converter w/22V Internal FET Switch	SOT-23-5	1297.80/1,000		
LM2731YMFCT-ND	0.6/1.6MHz Boost Converter w/22V Internal FET Switch	SOT-23-5	2.58	1.96	1.50
LM2731YMFTR-ND	0.6/1.6MHz Boost Converter w/22V Internal FET Switch	SOT-23-5	1297.80/1,000		
LM2733XMFCT-ND	0.6/1.6MHz Boost Converter w/40V Internal FET Switch	SOT-23-5	2.58	1.96	1.50
LM2733XMFTR-ND	0.6/1.6MHz Boost Converter w/40V Internal FET Switch	SOT-23-5	1297.80/1,000		
LM2733YMFCT-ND	0.6/1.6MHz Boost Converter w/40V Internal FET Switch	SOT-23-5	2.58	1.96	1.50
LM2733YMFTR-ND	0.6/1.6MHz Boost Converter w/40V Internal FET Switch	SOT-23-5	1297.80/1,000		
LM2734XMKCT-ND	1A Load Step-Down DC-DC Regulator	TSOT-23-6	3.58	2.72	2.08
LM2734XMKTR-ND	1A Load Step-Down DC-DC Regulator	TSOT-23-6	1801.80/1,000		
LM2734YMKCT-ND	1A Load Step-Down DC-DC Regulator	TSOT-23-6	2.98	2.27	1.73
LM2734YMKTR-ND	1A Load Step-Down DC-DC Regulator	TSOT-23-6	1499.40/1,000		
LM2734ZMKCT-ND	1A Load Step-Down DC-DC Regulator	6-TSOT	4.15	3.16	2.41
LM2734ZMKTR-ND	1A Load Step-Down DC-DC Regulator	6-TSOT	2091.60/1,000		
LM2734ZSDCT-ND	1A Load Step-Down DC-DC Regulator	6-LLP	4.15	3.16	2.41
LM2734ZSDTR-ND	1A Load Step-Down DC-DC Regulator	6-LLP	2091.60/1,000		
LM2736XMKCT-ND	750mA Load Step-Down DC-DC Regulator	TSOT-23-6	3.33	2.53	1.93
LM2736XMKTR-ND	750mA Load Step-Down DC-DC Regulator	TSOT-23-6	1675.80/1,000		
LM2736YMKCT-ND	750mA Load Step-Down DC-DC Regulator	TSOT-23-6	2.73	2.08	1.59
LM2736YMKTR-ND	750mA Load Step-Down DC-DC Regulator	TSOT-23-6	1373.40/1,000		
LM2737MTC-ND	N-Channel FET Sync. Buck Regulator Controller	14-TSSOP	2.98	2.27	1.73
LM2742MTC-ND	N-Channel FET Sync. Buck Regulator Controller	14-TSSOP	3.58	2.72	2.08
LM2743MTC-ND	N-Channel FET Sync. Buck Regulator Controller	14-TSSOP	3.10	2.36	1.80
LM2744MTC-ND	Low Volt. N-Ch. MOSFET Sync. Buck Reg. Controller	14-TSSOP	2.85	2.17	1.66
LM2745MTC-ND	Sync. Buck Controller with Pre-Bias Startup	14-TSSOP	3.80	2.89	2.21
LM2746MXA-ND	Low Voltage N-Channel MOSFET Sync. Buck Regulator Controller	14-ETSSOP	3.08	2.34	1.79
LM2748MTC-ND	Sync. Buck Controller with Pre-Bias Startup	14-TSSOP	3.58	2.72	2.08
LM2750LD-5.0CT-ND	LN, 5.0V Regulator Switched Capacitor Voltage Converter	10-LLP	2.63	2.00	1.53
LM2750LD-5.0TR-ND	LN, 5.0V Regulator Switched Capacitor Voltage Converter	10-LLP	1323.00/1,000		
LM2750LD-ADJCT-ND	LN, Adj. Regulator Switched Capacitor Voltage Converter	10-LLP	2.63	2.00	1.53
LM2750LD-ADJTR-ND	LN, Adj. Regulator Switched Capacitor Voltage Converter	10-LLP	1323.00/1,000		
LM2750SD-5.0CT-ND	5V Low Noise Switched Capacitor Boost Reg. **NEW!**	10-LLP	2.63	2.00	1.53
LM2750SD-5.0TR-ND	5V Low Noise Switched Capacitor Boost Reg. **NEW!**	10-LLP	1323.00/1,000		
LM2753SDCT-ND	High Power Switched Capacitor Voltage Converter/ Flash LED Driver **NEW!**	10-LLP	2.78	2.11	1.61
LM2753SDTR-ND	High Power Switched Capacitor Voltage Converter/ Flash LED Driver **NEW!**	10-LLP	1398.60/1,000		
LM2760M5CT-ND	3.3V, Regulator Switched Capacitor Voltage Converter	SOT-23-5	2.89	2.15	1.59
LM2760M5TR-ND	3.3V, Regulator Switched Capacitor Voltage Converter	SOT-23-5	1191.68/1,000		
LM2765M6CT-ND	Switched Capacitor Voltage Converter	SOT-23-6	1.14	.84	.61
LM2765M6TR-ND	Switched Capacitor Voltage Converter	SOT-23-6	395.20/1,000		
LM2766M6CT-ND	Switched Capacitor Voltage Converter	SOT-23-6	1.14	.84	.61
LM2766M6TR-ND	Switched Capacitor Voltage Converter	SOT-23-6	395.20/1,000		
LM2767M5CT-ND	Switched Capacitor Voltage Converter	SOT-23-6	1.04	.76	.56
LM2767M5TR-ND	Switched Capacitor Voltage Converter	SOT-23-6	358.80/1,000		
LM2770SD-1215CT-ND	1.2V/1.5V, High Efficiency Switched Capacitor Step-Down DC-DC Regulator	10-LLP	3.33	2.53	1.93
LM2770SD-1215TR-ND	1.2V/1.5V, High Efficiency Switched Capacitor Step-Down DC-DC Regulator	10-LLP	1675.80/1,000		
LM2770SD-12157CT-ND	1.2V/1.575V, High Efficiency Switched Capacitor Step-Down DC-DC Regulator	10-LLP	3.33	2.53	1.93
LM2770SD-12157TR-ND	1.2V/1.575V, High Efficiency Switched Capacitor Step-Down DC-DC Regulator	10-LLP	1675.80/1,000		
LM2780TPCT-ND	Ultra-Low Ripple Switched Capacitor Volt. Inverter	8-microSMD	1.56	1.16	.86
LM2780TPTR-ND	Ultra-Low Ripple Switched Capacitor Volt. Inverter	8-microSMD	170.10/250		
LM2781TPCT-ND	Ultra-Low Ripple Switched Capacitor Volt. Inverter	8-microSMD	1.56	1.16	.86
LM2781TPTR-ND	Ultra-Low Ripple Switched Capacitor Volt. Inverter	8-microSMD	170.10/250		
LM2787BPCT-ND	LN Regulated Switched Cap. Voltage Inverter	8-microSMD	2.80	2.08	1.54
LM2787BPTR-ND	LN Regulated Switched Cap. Voltage Inverter	8-microSMD	304.76/250		
LM2787TP-ND	LN Regulated Switched Cap. Voltage Inverter	8-microSMD	2.65	1.97	1.46
LM2788MM-1.5CT-ND	1.5V, 120mA High Efficiency Step-Down Switched Capacitor Voltage Converter	8-MSOP	2.74	2.04	1.51
LM2788MM-1.5TR-ND	1.5V, 120mA High Efficiency Step-Down Switched Capacitor Voltage Converter	8-MSOP	1131.52/1,000		
LM2788MM-1.8CT-ND	1.8V, 120mA High Efficiency Step-Down Switched Capacitor Voltage Converter	8-MSOP	2.74	2.04	1.51
LM2788MM-1.8TR-ND	1.8V, 120mA High Efficiency Step-Down Switched Capacitor Voltage Converter	8-MSOP	1131.52/1,000		
LM2788MM-2.0CT-ND	2V, 120mA High Efficiency Step-Down Switched Capacitor Voltage Converter	8-MSOP	2.74	2.04	1.51
LM2788MM-2.0TR-ND	2V, 120mA High Efficiency Step-Down Switched Capacitor Voltage Converter	8-MSOP	1131.52/1,000		
LM2791LD-HCT-ND	Current Regulated Switched Capacitor LED Driver with Analog Brightness Control	10-LLP	2.83	2.15	1.64
LM2791LD-HTR-ND	Current Regulated Switched Capacitor LED Driver with Analog Brightness Control	10-LLP	1423.80/1,000		
LM2791LD-LCT-ND	Current Regulated Switched Capacitor LED Driver with Analog Brightness Control	10-LLP	2.83	2.15	1.64
LM2791LD-LTR-ND	Current Regulated Switched Capacitor LED Driver with Analog Brightness Control	10-LLP	1423.80/1,000		
LM2792LD-HCT-ND	Current Regulated Switched Capacitor LED Driver	10-LLP	2.83	2.15	1.64
LM2792LD-HTR-ND	Current Regulated Switched Capacitor LED Driver	10-LLP	1423.80/1,000		
LM2792LD-LCT-ND	Current Regulated Switched Capacitor LED Driver	10-LLP	2.83	2.15	1.64
LM2792LD-LTR-ND	Current Regulated Switched Capacitor LED Driver	10-LLP	1423.80/1,000		
LM2793LDCT-ND	Low Noise White LED Constant Current Supply	10-LLP	2.90	2.21	1.69
LM2793LDTR-ND	Low Noise White LED Constant Current Supply	10-LLP	1461.60/1,000		
LM2794BLCT-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	2.65	1.97	1.46
LM2794BLTR-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	288.56/250		
LM2794TLCT-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	2.65	1.97	1.46
LM2794TLTR-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	288.56/250		
LM2795BLCT-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	2.65	1.97	1.46
LM2795BLTR-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	288.56/250		
LM2795BLXCT-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	2.65	1.97	1.46
LM2795BLXTR-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	3206.25/3,000		
LM2795TLCT-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	2.65	1.97	1.46
LM2795TLTR-ND	Current Regulated Switched Capacitor LED Supply with Analog Brightness Control	14-microSMD	288.56/250		
LM2796TLCT-ND	Dual Display White LED Driver	18-microSMD	4.18	3.18	2.43

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM2796TLTR-ND	Dual Display White LED Driver	18-microSMD	555.28/250		
LM2797MM-1.8CT-ND	1.8V, 120mA, High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	10-MSOP	3.06	2.28	1.68
LM2797MM-1.8TR-ND	1.8V, 120mA, High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	10-MSOP	1264.64/1,000		
LM2798MM-1.5CT-ND	1.5V, 120mA, High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	10-MSOP	3.06	2.28	1.68
LM2798MM-1.5TR-ND	1.5V, 120mA, High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	10-MSOP	1264.64/1,000		
LM2798MM-1.8CT-ND	1.8V, 120mA, High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	10-MSOP	3.06	2.28	1.68
LM2798MM-1.8TR-ND	1.8V, 120mA, High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	10-MSOP	1264.64/1,000		
LM2798MM-2.0CT-ND	2V, 120mA, High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	10-MSOP	3.06	2.28	1.68
LM2798MM-2.0TR-ND	2V, 120mA, High Efficiency Step-Down Switched Capacitor Voltage Converter with Voltage Monitoring	10-MSOP	1264.64/1,000		
LM2825HN-ADJ-ND	Adjustable Integrated Power Supply 1A DC-DC Converter	24-Dip	30.00	28.00	26.00
LM2825N-ADJ-ND	Adjustable DC-DC Converter	24-Dip	30.00	28.00	26.00
LM2825N-3.3-ND	3.3V, Integrated Power Supply 1A DC-DC Converter	24-Dip	30.00	28.00	26.00
LM2825N-5.0-ND	5V, Integrated Power Supply 1A DC-DC Converter	24-Dip	30.00	28.00	26.00
LM2825N-12-ND	12V, Integrated Power Supply 1A DC-DC Converter	24-Dip	30.00	28.00	26.00
LM2852XMXA-0.8-ND	0.8V, 2A, 500/1500KHz SIMPLE SYNCHRONOUS™ Buck Regulator ***NEW!***	14-TSSOP	7.69	6.08	4.87
LM2852XMXA-1.0-ND	1V, 2A, 500/1500KHz SIMPLE SYNCHRONOUS™ Buck Regulator ***NEW!***	14-TSSOP	7.69	6.08	4.87
LM2852XMXA-1.2-ND	1.2V, 2A, 500/1500KHz SIMPLE SYNCHRONOUS™ Buck Regulator ***NEW!***	14-TSSOP	7.69	6.08	4.87
LM2852XMXA-1.5-ND	1.5V, 2A, 500/1500KHz SIMPLE SYNCHRONOUS™ Buck Regulator ***NEW!***	14-TSSOP	7.69	6.08	4.87
LM2852XMXA-1.8-ND	1.8V, 2A, 500/1500KHz SIMPLE SYNCHRONOUS™ Buck Regulator ***NEW!***	14-TSSOP	7.69	6.08	4.87
LM2852XMXA-2.5-ND	2.5V, 2A, 500/1500KHz SIMPLE SYNCHRONOUS™ Buck Regulator ***NEW!***	14-TSSOP	7.69	6.08	4.87
LM2852XMXA-3.0-ND	3V, 2A, 500/1500KHz SIMPLE SYNCHRONOUS™ Buck Regulator ***NEW!***	14-TSSOP	7.69	6.08	4.87
LM2852XMXA-3.3-ND	3.3V, 2A, 500/1500KHz SIMPLE SYNCHRONOUS™ Buck Regulator ***NEW!***	14-TSSOP	7.69	6.08	4.87
LM2852YMXA-0.8-ND	0.8V, 2A SIMPLE SYNCHRONOUS™ Buck Regulator	14-TSSOP	6.28	4.97	3.98
LM2852YMXA-1.0-ND	1.0V, 2A SIMPLE SYNCHRONOUS™ Buck Regulator	14-TSSOP	6.28	4.97	3.98
LM2852YMXA-1.2-ND	1.2V, 2A SIMPLE SYNCHRONOUS™ Buck Regulator	14-TSSOP	6.28	4.97	3.98
LM2852YMXA-1.5-ND	1.5V, 2A SIMPLE SYNCHRONOUS™ Buck Regulator	14-TSSOP	6.28	4.97	3.98
LM2852YMXA-1.8-ND	1.8V, 2A SIMPLE SYNCHRONOUS™ Buck Regulator	14-TSSOP	6.28	4.97	3.98
LM2852YMXA-2.5-ND	2.5V, 2A SIMPLE SYNCHRONOUS™ Buck Regulator	14-TSSOP	6.28	4.97	3.98
LM2852YMXA-3.3-ND	3.3V, 2A SIMPLE SYNCHRONOUS™ Buck Regulator	14-TSSOP	6.28	4.97	3.98
LM2876T-ND	High Performance 40W Audio Power Amp with Mute	TO-220-11	4.48	3.41	2.60
LM2876TF-ND	High Performance 40W Audio Power Amp with Mute	TO-220-11	5.18	3.94	3.01
LM2901M-ND	Quad Voltage Comparator	14-SOIC	1.04	.75	.55
LM2901MXCT-ND	Quad Voltage Comparator ***NEW!***	14-SOIC	1.04	.75	.55
LM2901MXTR-ND	Quad Voltage Comparator	14-SOIC	764.75/2,500		
LM2901NNS-ND	Quad Voltage Comparator	14-Dip	1.11	.81	.59
LM2902M-ND	Low Power Quad Op Amp	14-SOIC	1.02	.75	.55
LM2902MXCT-ND	Low Power Quad Op Amp ***NEW!***	14-SOIC	1.01	.75	.54
LM2902MXTR-ND	Low Power Quad Op Amp	14-SOIC	867.00/2,500		
LM2902NNS-ND	Low Power Quad Op Amp	14-Dip	1.18	.87	.63
LM2903MNS-ND	Dual Comparator	8-SOIC	1.04	.75	.55
LM2903MXCT-ND	Dual Comparator ***NEW!***	8-SOIC	.90	.65	.47
LM2903MXTR-ND	Dual Comparator	8-SOIC	764.75/2,500		
LM2903NNS-ND	Dual Comparator	8-Dip	1.11	.81	.59
LM2904MNS-ND	Low Power Dual Op Amp	8-SOIC	1.04	.75	.55
LM2904NNS-ND	Dual Op Amp	8-Dip	1.11	.81	.59
LM2907M-8-ND	Frequency-to-Voltage Converter	8-SOIC	1.86	1.38	1.02
LM2907N-ND	Frequency-to-Voltage Converter	14-Dip	1.86	1.38	1.02
LM2907N-8-ND	Frequency-to-Voltage Converter	8-Dip	1.86	1.38	1.02
LM2917M-ND	Frequency-to-Voltage Converter	14-SOIC	2.02	1.50	1.11
LM2917M-8-ND	Frequency-to-Voltage Converter	8-SOIC	2.02	1.50	1.11
LM2917MX-8CT-ND	Frequency-to-Voltage Converter ***NEW!***	8-SOIC	1.95	1.45	1.08
LM2917MX-8TR-ND	Frequency-to-Voltage Converter ***NEW!***	8-SOIC	2031.25/2,500		
LM2917N-ND	Frequency-to-Voltage Converter	14-Dip	2.11	1.57	1.16
LM2917N-8-ND	Frequency-to-Voltage Converter	8-Dip	2.11	1.57	1.16
LM2930S-5.0-ND	5V, 3-Terminal Positive Regulator	TO-263	1.56	1.16	.86
LM2930S-8.0-ND	8V, 3-Terminal Positive Regulator	TO-263	1.56	1.16	.86
LM2930T-5.0-ND	5V, 150mA Positive Regulator	TO-220	1.72	1.27	.92
LM2930T-8.0-ND	8V, 150mA Positive Regulator	TO-220	1.72	1.27	.92
LM2931AM-5.0-ND	5V, Low Dropout (0.6V) Regulator	8-SOIC	1.07	.78	.56
LM2931AMX-5.0CT-ND	5V, Low Dropout (0.6V) Regulator ***NEW!***	8-SOIC	1.08	.78	.57
LM2931AMX-5.0TR-ND	5V, Low Dropout (0.6V) Regulator	8-SOIC	791.35/2,500		
LM2931AS-5.0-ND	5V, Low Dropout (0.6V) Regulator	TO-263	2.00	1.49	1.10
LM2931AT-5.0NS-ND	5V, Low Dropout (0.6V) Regulator	TO-220	1.59	1.17	.85
LM2931AZ-5.0-ND	5V, Low Dropout (0.6V) Regulator	TO-92	.96	.71	.51
LM2931CM-ND	Adjustable, Low Dropout (0.6V) Regulator	8-SOIC	.99	.72	.52
LM2931CMXTR-ND	Adjustable, Low Dropout (0.6V) Regulator	8-SOIC	734.83/2,500		
LM2931CS-ND	Adjustable, Low Dropout (0.6V) Regulator	TO-263-5	1.95	1.45	1.07
LM2931CTNS-ND	Adjustable, Low Dropout (0.6V) Regulator	TO-220-5	1.59	1.17	.85
LM2931IBP-3.3CT-ND	3.3V, Low Dropout (0.6V) Regulator	6-microSMD	1.33	.98	.71
LM2931IBP-3.3TR-ND	3.3V, Low Dropout (0.6V) Regulator	6-microSMD	132.75/250		
LM2931IBP-5.0CT-ND	5V, Low Dropout (0.6V) Regulator	6-microSMD	1.33	.98	.71
LM2931IBP-5.0TR-ND	5V, Low Dropout (0.6V) Regulator	6-microSMD	132.75/250		
LM2931M-5.0-ND	5V, Low Dropout (0.6V) Regulator	8-SOIC	1.04	.75	.55
LM2931MX-5.0CT-ND	5V, Low Dropout (0.6V) Regulator ***NEW!***	8-SOIC	.95	.69	.50
LM2931MX-5.0TR-ND	5V, Low Dropout (0.6V) Regulator	8-SOIC	764.75/2,500		
LM2931S-5.0-ND	5V, Low Dropout (0.6V) Regulator	TO-263	1.95	1.45	1.07
LM2931T-5.0NS-ND	5V, Low Dropout (0.6V) Regulator	TO-220	1.59	1.17	.85
LM2931Z-5.0NS-ND	5V, Low Dropout (0.6V) Regulator	TO-92	1.04	.75	.55
LM2936BM-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator	8-SOIC	2.39	1.78	1.31
LM2936BM-5.0-ND	5V, Ultra Low Quiescent Current Regulator	8-SOIC	2.39	1.78	1.31
LM2936DT-3.0-ND	3V, Ultra Low Quiescent Current Regulator	TO-252	2.65	1.97	1.46
LM2936DT-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator	TO-252	2.65	1.97	1.46
LM2936DT-5.0-ND	5V, Ultra Low Quiescent Current Regulator	TO-252	2.65	1.97	1.46
LM2936HVBMA-3.0-ND	3V, Ultra Low Quiescent Current Regulator	8-SOIC	2.65	1.97	1.46
LM2936HVBMA-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator	8-SOIC	2.65	1.97	1.46
LM2936HVBMA-5.0-ND	5V, Ultra Low Quiescent Current Regulator	8-SOIC	2.65	1.97	1.46
LM2936HVMA-5.0-ND	5V, Ultra Low Quiescent Current Regulator	8-SOIC	2.65	1.97	1.46
LM2936M-3.0-ND	3V, Ultra Low Quiescent Current Regulator	8-SOIC	2.33	1.73	1.28
LM2936M-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator	8-SOIC	2.33	1.73	1.28
LM2936M-5.0-ND	5V, Ultra Low Quiescent Current Regulator	8-SOIC	2.33	1.73	1.28
LM2936MM-3.0CT-ND	3V, Ultra Low Quiescent Current Regulator	8-MSOP	2.33	1.73	1.28
LM2936MM-3.0TR-ND	3V, Ultra Low Quiescent Current Regulator	8-MSOP	961.28/1,000		
LM2936MM-3.3CT-ND	3.3V, Ultra Low Quiescent Current Regulator	8-MSOP	2.33	1.73	1.28
LM2936MM-3.3TR-ND	3.3V, Ultra Low Quiescent Current Regulator	8-MSOP	961.28/1,000		
LM2936MM-5.0CT-ND	5V, Ultra Low Quiescent Current Regulator	8-MSOP	2.33	1.73	1.28
LM2936MM-5.0TR-ND	5V, Ultra Low Quiescent Current Regulator	8-MSOP	961.28/1,000		
LM2936MP-3.0CT-ND	3V, Ultra Low Quiescent Current Regulator	SOT-223-4	2.65	1.97	1.46
LM2936MP-3.0TR-ND	3V, Ultra Low Quiescent Current Regulator	SOT-223-4	1094.40/1,000		
LM2936MP-3.3CT-ND	3.3V, Ultra Low Quiescent Current Regulator	SOT-223-4	2.65	1.97	1.46
LM2936MP-3.3TR-ND	3.3V, Ultra Low Quiescent Current Regulator	SOT-223-4	1094.40/1,000		
LM2936MP-5.0CT-ND	5V, Ultra Low Quiescent Current Regulator	SOT-223	2.65	1.97	1.46
LM2936MP-5.0TR-ND	5V, Ultra Low Quiescent Current Regulator	SOT-223	1094.40/1,000		
LM2936MX-5.0CT-ND	5V, Ultra Low Quiescent Current Regulator ***NEW!***	8-SOIC	2.20	1.64	1.21
LM2936MX-5.0TR-ND	5V, Ultra Low Quiescent Current Regulator	8-SOIC	2346.88/2,500		
LM2936Z-3.0-ND	3V, Ultra Low Quiescent Current Regulator	TO-92	2.65	1.97	1.46
LM2936Z-3.3-ND	3.3V, Ultra Low Quiescent Current Regulator	TO-92	2.65	1.97	1.46
LM2936Z-5.0-ND	5V, Ultra Low Quiescent Current Regulator	TO-92	2.65	1.97	1.46
LM2937ES-2.5-ND	2.5V, 500mA Low Dropout Regulator	TO-263	2.19	1.63	1.21
LM2937ES-3.3-ND	3.3V, 500mA Low Dropout Regulator	TO-263	2.19	1.63	1.21
LM2937ES-5.0-ND	5V, 500mA Low Dropout Regulator	TO-263	2.19	1.63	1.21
LM2937ES-8.0-ND	8V, 500mA Low Dropout Regulator	TO-263	2.19	1.63	1.21
LM2937ES-10-ND	10V, 500mA Low Dropout Regulator	TO-263	2.19	1.63	1.21
LM2937ES-12-ND	12V, 500mA Low Dropout Regulator	TO-263	2.19	1.63	1.21
LM2937ES-15-ND	15V, 500mA Low Dropout Regulator	TO-263	2.19	1.63	1.21
LM2937ESX-5.0TR-ND	5V, 500mA Low Dropout Regulator	TO-263	458.90/500		
LM2937ET-2.5-ND	2.5V, 500mA Low Dropout Regulator	TO-220	2.06	1.53	1.13
LM2937ET-3.3-ND	3.3V, 500mA Low Dropout Regulator	TO-220	2.06	1.53	1.13
LM2937ET-5.0-ND	5V, 500mA High Temp Regulator	TO-220	2.06	1.53	1.13
LM2937ET-8.0-ND	8V, 500mA High Temp Voltage Regulator	TO-220	2.06	1.53	1.13
LM2937ET-10-ND	10V, 500mA High Temp Voltage Regulator	TO-220	2.06	1.53	1.13
LM2937ET-12-ND	12V, 500mA High Temp Voltage Regulator	TO-220	2.06	1.53	1.13
LM2937IMP-2.5CT-ND	2.5V, 500mA Low Dropout Regulator	SOT-223	1.83	1.36	1.01
LM2937IMP-2.5TR-ND	2.5V, 500mA Low Dropout Regulator	SOT-223	753.92/1,000		
LM2937IMP-3.3CT-ND	3.3V, 500mA Low Dropout Regulator	SOT-223	1.83	1.36	1.01
LM2937IMP-3.3TR-ND	3.3V, 500mA Low Dropout Regulator	SOT-223	753.92/1,000		
LM2937IMP-5.0CT-ND	5V, 400mA Low Dropout Regulator	SOT-223	1.83	1.36	1.01
LM2937IMP-5.0TR-ND	5V, 400mA Low Dropout Regulator	SOT-223	753.92/1,000		
LM2937IMP-8.0CT-ND	8V, 500mA Low Dropout Regulator	SOT-223	1.83	1.36	1.01
LM2937IMP-8.0TR-ND	8V, 500mA Low Dropout Regulator	SOT-223	753.92/1,000		
LM2937IMP-10CT-ND	10V, 500mA Low Dropout Regulator	SOT-223	1.83	1.36	1.01
LM2937IMP-10TR-ND	10V, 500mA Low Dropout Regulator	SOT-223	753.92/1,000		
LM2937IMP-12CT-ND	12V, 500mA Low Dropout Regulator	SOT-223	1.83	1.36	1.01
LM2937IMP-12TR-ND	12V, 500mA Low Dropout Regulator	SOT-223	753.92/1,000		
LM2937IMP-15CT-ND	15V, 500mA Low Dropout Regulator	SOT-223	1.83	1.36	1.01
LM2937IMP-15TR-ND	15V, 500mA Low Dropout Regulator	SOT-223	753.92/1,000		
LM2940CS-5.0-ND	5V, 1A Low Dropout Voltage Regulator	TO-263	2.11	1.57	1.16
LM2940CS-9.0-ND	9V, 1A Low Dropout Regulator	TO-263	2.11	1.57	1.16
LM2940CS-12-ND	12V, 1A Low Dropout Regulator	TO-263	2.11	1.57	1.16
LM2940CS-15-ND	15V, 1A Low Dropout Regulator	TO-263	2.11	1.57	1.16
LM2940CSX-5.0TR-ND	5V, 1A Low Dropout Voltage Regulator	TO-263	442.00/500		
LM2940CT-5.0-ND	5V, 1A Low Dropout Voltage Regulator	TO-220	1.82	1.35	1.00
LM2940CT-9.0-ND	9V, 1A Low Dropout Regulator	TO-220	1.82	1.35	1.00
LM2940CT-12-ND	12V, 1A Low Dropout Voltage Regulator	TO-220	1.82	1.35	1.00
LM2940CT-15-ND	15V, 1A Low Dropout Voltage Regulator	TO-220	1.82	1.35	1.00
LM2940IMP-5.0CT-ND	5V, 1A Low Dropout Regulator	SOT-223	2.15	1.60	1.18
LM2940IMP-5.0TR-ND	5V, 1A Low Dropout Regulator	SOT-223	885.76/1,000		
LM2940IMP-8.0CT-ND	8V, 1A Low Dropout Regulator	SOT-223	2.15	1.60	1.18
LM2940IMP-8.0TR-ND	8V, 1A Low Dropout Regulator	SOT-223	885.76/1,000		
LM2940IMP-9.0CT-ND	9V, 1A Low Dropout Regulator	SOT-223	2.15	1.60	1.18
LM2940IMP-9.0TR-ND	9V, 1A Low Dropout Regulator	SOT-223	885.76/1,000		
LM2940IMP-10CT-ND	10V, 1A Low Dropout Regulator	SOT-223	2.15	1.60	1.18
LM2940IMP-10TR-ND	10V, 1A Low Dropout Regulator	SOT-223	885.76/1,000		
LM2940IMP-12CT-ND	12V, 1A Low Dropout Regulator	SOT-223	2.15	1.60	1.18
LM2940IMP-12TR-ND	12V, 1A Low Dropout Regulator	SOT-223	885.76/1,000		
LM2940IMP-15CT-ND	15V, 1A Low Dropout Regulator	SOT-223	2.15	1.60	1.18
LM2940IMP-15TR-ND	15V, 1A Low Dropout Regulator	SOT-223	885.76/1,000		
LM2940S-5.0-ND	5V, 1A Low Dropout Voltage Regulator	TO-263	2.11	1.57	1.16
LM2940S-8.0-ND	8V, 1A Low Dropout Regulator	TO-263	2.28	1.70	1.26
LM2940S-9.0-ND	9V, 1A Low Dropout Regulator	TO-263	2.28	1.70	1.26
LM2940S-10-ND	10V, 1A Low Dropout Regulator	TO-263	2.11	1.57	1.16
LM2940S-12-ND	12V, 1A Low Dropout Regulator	TO-263	2.11	1.57	1.16
LM2940SX-5.0TR-ND	5V, 1A Low Dropout Voltage Regulator	TO-263	442.00/500		
LM2940T-5.0-ND	5V, 1A Low Dropout Voltage Regulator	TO-220	1.82	1.35	1.00
LM2940T-8.0-ND	8V, 1A Low Dropout Voltage Regulator	TO-220	1.82	1.35	1.00
LM2940T-9.0-ND	9V, 1A Low Dropout Voltage Regulator	TO-220	1.82	1.35	1.00
LM2940T-10.0-ND	10V, 1A Low Dropout Voltage Regulator	TO-220	1.82	1.35	1.00
LM2940T-12.0-ND	12V, 1A Low Dropout Voltage Regulator	TO-220	1.82	1.35	1.00
LM2941CS-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-263-5	2.28	1.70	1.26
LM2941CSXTR-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-263-5	479.05/500		
LM2941CT-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-220-5	1.82	1.35	1.00
LM2941S-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-263-5	2.11	1.57	1.16
LM2941SXCT-ND	Adjustable 1A Low Dropout Voltage Regulator ***NEW!***	TO-263-5	2.11	1.57	1.16
LM2941SXTR-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-263-5	442.00/500		
LM2941T-ND	Adjustable 1A Low Dropout Voltage Regulator	TO-220-5	1.82	1.35	1.00
LM2990S-5.0-ND	5V, Negative Low Dropout Regulator	TO-263	2.88	2.19	1.67
LM2990S-12-ND	12V, Negative Low Dropout Regulator	TO-263	2.88	2.19	1.67
LM2990S-15-ND	15V, Negative Low Dropout Regulator	TO-263	2.88	2.19	1.67
LM2990T-5.0-ND	5V, Negative Low Dropout Voltage Regulator	TO-220	2.88	2.19	1.67
LM2990T-5.2-ND	5.2V, Negative Low Dropout Voltage Regulator	TO-220	2.88	2.19	1.67
LM2990T-12-ND	12V, Negative Low Dropout Voltage Regulator	TO-220	2.88	2.19	1.67
LM2991S-ND	Neg. Adjustable Low Dropout Voltage Regulator	TO-263-5	2.88	2.19	1.67
LM3075MTC-ND	High Efficiency, Sync. Current Mode Buck Controller ***NEW!***	20-TSSOP	4.70	3.58	2.73
LM3100MH-ND	SIMPLE SWITCHER® Sync. 1MHz, 1.5A Step-Down Voltage Regulator ***NEW!***	20-TSSOP	5.95	4.53	3.46
LM3211MT-ADJ-ND	Step Up PWM DC-DC Converter	20-TSSOP	3.95	3.01	2.30
LM3224MM-ADJCT-ND	Adj., 615KHz/1.25MHz Step Up PWM DC-DC Converter	8-MSOP	4.53	3.44	2.63
LM3224MM-ADJTR-ND	Adj., 615KHz/1.25MHz Step Up PWM DC-DC Converter	8-MSOP	2280.60/1,000		

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM3302N-ND	Quad Comparator	14-Dip	1.05	.78	.57
LM3310SQCT-ND	Step-Up PWM DC-DC Converter ***NEW!***	24-LLP	3.80	2.89	2.21
LM3310SQTR-ND	Step-Up PWM DC-DC Converter ***NEW!***	24-LLP	1915.20/1,000		
LM3311SQCT-ND	Step-Up PWM DC-DC Converter ***NEW!***	24-LLP	4.28	3.25	2.48
LM3311SQTR-ND	Step-Up PWM DC-DC Converter ***NEW!***	24-LLP	2154.60/1,000		
LM3350MMCT-ND	Switched Capacitor Voltage Converter, 90% Eff.	8-MSOP	2.02	1.50	1.11
LM3350MMTR-ND	Switched Capacitor Voltage Converter, 90% Eff.	8-MSOP	832.00/1,000		
LM3351MMCT-ND	Switched Capacitor Voltage Converter, 95% Eff.	8-MSOP	2.02	1.50	1.11
LM3351MMTR-ND	Switched Capacitor Voltage Converter, 95% Eff.	8-MSOP	832.00/1,000		
LM3352MTC-2.5-ND	2.5V, Regulated 200mA Buck-Boost Switched Capacitor DC-DC Converter	16-TSSOP	3.53	2.68	2.05
LM3352MTC-3.0-ND	3V, Regulated 200mA Buck-Boost Switched Capacitor DC-DC Converter	16-TSSOP	3.53	2.68	2.05
LM3352MTC-3.3-ND	3.3V, Regulated 200mA Buck-Boost Switched Capacitor DC-DC Converter	16-TSSOP	3.53	2.68	2.05
LM3354MM-1.8CT-ND	1.8V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	3.00	2.28	1.74
LM3354MM-1.8TR-ND	1.8V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	1512.00/1,000		
LM3354MM-3.3CT-ND	3.3V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	3.00	2.28	1.74
LM3354MM-3.3TR-ND	3.3V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	1512.00/1,000		
LM3354MM-3.7CT-ND	3.7V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	3.00	2.28	1.74
LM3354MM-3.7TR-ND	3.7V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	1512.00/1,000		
LM3354MM-4.1CT-ND	4.1V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	3.00	2.28	1.74
LM3354MM-4.1TR-ND	4.1V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	1512.00/1,000		
LM3354MM-5.0CT-ND	5V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	3.00	2.28	1.74
LM3354MM-5.0TR-ND	5V, Regulated 90mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	1512.00/1,000		
LM3355MM-4.1CT-ND	4.1V, 50mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	2.95	2.19	1.62
LM3355MM-4.1TR-ND	4.1V, 50mA Buck-Boost Switched Capacitor DC-DC Converter	10-MSOP	1216.00/1,000		
LM3411AM5-3.3CT-ND	3.3V, Precision Secondary Regulator/Driver, A Grade	SOT-23-5	1.86	1.38	1.02
LM3411AM5-3.3TR-ND	3.3V, Precision Secondary Regulator/Driver, A Grade	SOT-23-5	768.00/1,000		
LM3411AM5-5.0CT-ND	5V, Precision Secondary Regulator/Driver, A Grade	SOT-23-5	1.86	1.38	1.02
LM3411AM5-5.0TR-ND	5V, Precision Secondary Regulator/Driver, A Grade	SOT-23-5	768.00/1,000		
LM3411M5-3.3CT-ND	3.3V, Precision Secondary Regulator/Driver	SOT-23-5	1.69	1.24	.90
LM3411M5-3.3TR-ND	3.3V, Precision Secondary Regulator/Driver	SOT-23-5	585.00/1,000		
LM3411M5-5.0CT-ND	5V, Precision Secondary Regulator/Driver	SOT-23-5	1.69	1.24	.90
LM3411M5-5.0TR-ND	5V, Precision Secondary Regulator/Driver	SOT-23-5	585.00/1,000		
LM3420AM5-8.2CT-ND	8.2V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	2.45	1.82	1.35
LM3420AM5-8.2TR-ND	8.2V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	1011.20/1,000		
LM3420AM5-8.4CT-ND	8.4V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	2.45	1.82	1.35
LM3420AM5-8.4TR-ND	8.4V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	1011.20/1,000		
LM3420AM5-16.8CT-ND	16.8V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	2.45	1.82	1.35
LM3420AM5-16.8TR-ND	16.8V, Lithium-Ion Battery Charge Controller, A Grade	SOT-23-5	1011.20/1,000		
LM3420M5-8.2CT-ND	8.2V, Lithium-Ion Battery Charge Controller	SOT-23-5	2.14	1.59	1.18
LM3420M5-8.2TR-ND	8.2V, Lithium-Ion Battery Charge Controller	SOT-23-5	883.20/1,000		
LM3420M5-16.8CT-ND	16.8V, Lithium-Ion Battery Charge Controller	SOT-23-5	2.14	1.59	1.18
LM3420M5-16.8TR-ND	16.8V, Lithium-Ion Battery Charge Controller	SOT-23-5	883.20/1,000		
LM3460M5-1.2CT-ND	1.2V, Precision Controller for GTLp and GTL Bus Termination	SOT-23-5	2.20	1.64	1.21
LM3460M5-1.2TR-ND	1.2V, Precision Controller for GTLp and GTL Bus Termination	SOT-23-5	908.80/1,000		
LM3460M5-1.5CT-ND	1.5V, Precision Controller for GTLp and GTL Bus Termination	SOT-23-5	2.20	1.64	1.21
LM3460M5-1.5TR-ND	1.5V, Precision Controller for GTLp and GTL Bus Termination	SOT-23-5	908.80/1,000		
LM3475MFCT-ND	Hysteretic PFET Buck Controller	SOT-23-5	1.61	1.20	.89
LM3475MFTR-ND	Hysteretic PFET Buck Controller	SOT-23-5	665.60/1,000		
LM3477AMMCT-ND	High Efficiency High Side N-Channel Controller for Switching Regulator	8-MSOP	2.65	1.97	1.46
LM3477AMMTR-ND	High Efficiency High Side N-Channel Controller for Switching Regulator	8-MSOP	1094.40/1,000		
LM3477MMCT-ND	High Efficiency High Side N-Channel Controller for Switching Regulator	8-MSOP	2.65	1.97	1.46
LM3477MMTR-ND	High Efficiency High Side N-Channel Controller for Switching Regulator	8-MSOP	1094.40/1,000		
LM3478MMCT-ND	High Eff. Low-Side N-Ch. Controller for Switching Reg.	8-MSOP	2.62	1.95	1.44
LM3478MMTR-ND	High Eff. Low-Side N-Ch. Controller for Switching Reg.	8-MSOP	1081.60/1,000		
LM3480IM3X-12CT-ND	12V, 100mA Low Dropout Voltage Regulator	SOT-23	1.13	.83	.60
LM3480IM3X-12TR-ND	12V, 100mA Low Dropout Voltage Regulator	SOT-23	1147.50/3,000		
LM3480IM3-3.3CT-ND	3.3V, 100mA Low Dropout Voltage Regulator	SOT-23	1.13	.83	.60
LM3480IM3-3.3TR-ND	3.3V, 100mA Low Dropout Voltage Regulator	SOT-23	390.00/1,000		
LM3480IM3-5.0CT-ND	5.0V, 100mA Low Dropout Voltage Regulator	SOT-23	1.13	.83	.60
LM3480IM3-5.0TR-ND	5.0V, 100mA Low Dropout Voltage Regulator	SOT-23	390.00/1,000		
LM3485MMCT-ND	Hysteric PFET Buck Controller	8-MSOP	1.56	1.16	.86
LM3485MMTR-ND	Hysteric PFET Buck Controller	8-MSOP	645.12/1,000		
LM3488MMCT-ND	High Eff. Low Side N-Ch. Controller for Switching Reg.	8-MSOP	2.77	2.06	1.52
LM3488MMTR-ND	High Eff. Low Side N-Ch. Controller for Switching Reg.	8-MSOP	1143.04/1,000		
LM3490IM5-3.3CT-ND	3.3V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	1.16	.86	.62
LM3490IM5-3.3TR-ND	3.3V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	403.00/1,000		
LM3490IM5-5.0CT-ND	5V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	1.16	.86	.62
LM3490IM5-5.0TR-ND	5V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	403.00/1,000		
LM3490IM5-12CT-ND	12V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	1.16	.86	.62
LM3490IM5-12TR-ND	12V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	403.00/1,000		
LM3490IM5-15CT-ND	15V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	1.16	.86	.62
LM3490IM5-15TR-ND	15V, 100mA Quasi LDO Linear Voltage Regulator with Logic-Controlled ON/OFF	SOT-23-5	403.00/1,000		

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM3500TL-16-ND	Sync. Step-Up DC-DC Converter	8-microSMD	3.33	2.53	1.93
LM3500TL-21CT-ND	Sync. Step-Up DC-DC Converter	8-microSMD	3.50	2.66	2.03
LM3500TL-21TR-ND	Sync. Step-Up DC-DC Converter	8-microSMD	465.50/250		
LM3501TL-16CT-ND	Sync. Step-Up DC-DC Converter for White LED	8-SMD	3.58	2.72	2.08
LM3501TL-16TR-ND	Sync. Step-Up DC-DC Converter for White LED	8-SMD	1801.80/1,000		
LM3502ITL-16CT-ND	16V Step-Up Converter for White LED ***NEW!***	10-microSMD	5.00	3.80	2.90
LM3502ITL-16TR-ND	16V Step-Up Converter for White LED ***NEW!***	10-microSMD	665.00/250		
LM3502ITL-25CT-ND	25V Step-Up Converter for White LED ***NEW!***	10-microSMD	5.08	3.86	2.95
LM3502ITL-25TR-ND	25V Step-Up Converter for White LED ***NEW!***	10-microSMD	674.98/250		
LM3502ITL-44CT-ND	44V Step-Up Converter for White LED ***NEW!***	10-microSMD	6.10	4.64	3.54
LM3502ITL-44TR-ND	44V Step-Up Converter for White LED ***NEW!***	10-microSMD	811.30/250		
LM3502SQ-16CT-ND	16V Step-Up Converter for White LED*	16-LLP	4.58	3.48	2.66
LM3502SQ-16TR-ND	16V Step-Up Converter for White LED*	16-LLP	2305.80/1,000		
LM3502SQ-25CT-ND	25V Step-Up Converter for White LED ***NEW!***	16-LLP	4.85	3.69	2.82
LM3502SQ-25TR-ND	25V Step-Up Converter for White LED ***NEW!***	16-LLP	2444.40/1,000		
LM3502SQ-35CT-ND	35V Step-Up Converter for White LED ***NEW!***	16-LLP	5.33	4.05	3.09
LM3502SQ-35TR-ND	35V Step-Up Converter for White LED ***NEW!***	16-LLP	2683.80/1,000		
LM3502SQ-44CT-ND	44V Step-Up Converter for White LED*	16-LLP	5.83	4.43	3.38
LM3502SQ-44TR-ND	44V Step-Up Converter for White LED*	16-LLP	2935.80/1,000		
LM3503ITL-16CT-ND	16V Dual Display Constant Current LED Driver ***NEW!***	10-microSMD	5.00	3.80	2.90
LM3503ITL-16TR-ND	16V Dual Display Constant Current LED Driver ***NEW!***	10-microSMD	665.00/250		
LM3503ITL-25CT-ND	25V Dual Display Constant Current LED Driver ***NEW!***	10-microSMD	5.08	3.86	2.95
LM3503ITL-25TR-ND	25V Dual Display Constant Current LED Driver ***NEW!***	10-microSMD	674.98/250		
LM3503ITL-35CT-ND	35V Dual Display Constant Current LED Driver ***NEW!***	10-microSMD	5.60	4.26	3.25
LM3503ITL-35TR-ND	35V Dual Display Constant Current LED Driver ***NEW!***	10-microSMD	744.80/250		
LM3503ITL-44CT-ND	44V Dual Display Constant Current LED Driver ***NEW!***	10-microSMD	6.10	4.64	3.54
LM3503ITL-44TR-ND	44V Dual Display Constant Current LED Driver ***NEW!***	10-microSMD	811.30/250		
LM3503SQ-16CT-ND	16V Dual Display Constant Current LED Driver ***NEW!***	16-LLP	4.58	3.48	2.66
LM3503SQ-16TR-ND	16V Dual Display Constant Current LED Driver ***NEW!***	16-LLP	2305.80/1,000		
LM3503SQ-25CT-ND	25V Dual Display Constant Current LED Driver ***NEW!***	16-LLP	4.85	3.69	2.82
LM3503SQ-25TR-ND	25V Dual Display Constant Current LED Driver ***NEW!***	16-LLP	2444.40/1,000		
LM3503SQ-35CT-ND	35V Dual Display Constant Current LED Driver ***NEW!***	16-LLP	5.33	4.05	3.09
LM3503SQ-35TR-ND	35V Dual Display Constant Current LED Driver ***NEW!***	16-LLP	2683.80/1,000		
LM3503SQ-44CT-ND	44V Dual Display Constant Current LED Driver ***NEW!***	16-LLP	5.83	4.43	3.38
LM3503SQ-44TR-ND	44V Dual Display Constant Current LED Driver ***NEW!***	16-LLP	2935.80/1,000		
LM3519MK-20CT-ND	20V High Frequency Boost White LED Driver ***NEW!***	SOT-23-6	2.85	2.17	1.66
LM3519MK-20TR-ND	20V High Frequency Boost White LED Driver ***NEW!***	SOT-23-6	1436.40/1,000		
LM3520SDCT-ND	Integrated White LED Driver ***NEW!***	14-LLP	6.18	4.70	3.59
LM3520SDTR-ND	Integrated White LED Driver ***NEW!***	14-LLP	3112.20/1,000		
LM3524DM-ND	Regulating Pulse Width Modulator	16-SOIC	1.58	1.18	.87
LM3524DN-ND	Regulating Pulse Width Modulator	16-Dip	1.98	1.47	1.09
LM3525M-H-ND	Single Port USB Power Switch/Over-Current Protection	8-SOIC	1.98	1.48	1.09
LM3525M-L-ND	Single Port USB Power Switch/Over-Current Protection	8-SOIC	1.98	1.48	1.09
LM3526M-H-ND	Dual Port USB Power Switch/Over-Current Protection	8-SOIC	2.26	1.68	1.25
LM3526M-L-ND	Dual Port USB Power Switch/Over-Current Protection	8-SOIC	2.26	1.68	1.25
LM3544M-H-ND	Quad Port USB Power Switch/Over-Current Protection	16-SOIC	3.83	2.91	2.22
LM3551SDCT-ND	1A White LED Driver*	14-LLP	2.63	2.00	1.53
LM3551SDTR-ND	1A White LED Driver*	14-LLP	1323.00/1,000		
LM3552SDCT-ND	1A White LED Driver*	14-LLP	2.63	2.00	1.53
LM3552SDTR-ND	1A White LED Driver*	14-LLP	1323.00/1,000		
LM3570SDCT-ND	Low Noise White LED Driver System	14-LLP	3.33	2.53	1.93
LM3570SDTR-ND	Low Noise White LED Driver System	14-LLP	1675.80/1,000		
LM3578AM-ND	Switching Regulator	8-SOIC	2.11	1.57	1.16
LM3578AMXTR-ND	Switching Regulator	8-SOIC	2125.00/2,500		
LM3578AN-ND	Switching Regulator	8-Dip	2.11	1.57	1.16
LM3590MFCT-ND	Triple White LED Driver	SOT-23-5	1.43	1.05	.76
LM3590MFTR-ND	Triple White LED Driver	SOT-23-5	494.00/1,000		
LM3595LDCT-ND	Quad Parallel White LED Driver	10-LLP	2.65	1.97	1.46
LM3595LDTR-ND	Quad Parallel White LED Driver	10-LLP	1094.40/1,000		
LM3620M5-4CT-ND	4V, Lithium-Ion Battery Charger Controller	SOT-23-5	2.08	1.55	1.14
LM3620M5-4TR-ND	4V, Lithium-Ion Battery Charger Controller	SOT-23-5	857.60/1,000		
LM3620M5-8CT-ND	8V, Lithium-Ion Battery Charger Controller	SOT-23-5	2.08	1.55	1.14
LM3620M5-8TR-ND	8V, Lithium-Ion Battery Charger Controller	SOT-23-5	857.60/1,000		
LM3621M-ND	Single Cell Lithium-Ion Battery Charger Controller	16-SOIC	2.98	2.27	1.73
LM3622AM-4.1-ND	4.1V, Lithium-Ion Battery Charger Controller	8-SOIC	2.78	2.11	1.61
LM3622AM-4.2-ND	4.2V, Lithium-Ion Battery Charger Controller	8-SOIC	2.78	2.11	1.61
LM3622AM-8.2-ND	8.2V, Lithium-Ion Battery Charger Controller	8-SOIC	2.78	2.11	1.61
LM3622AM-8.4-ND	8.4V, Lithium-Ion Battery Charger Controller	8-SOIC	2.78	2.11	1.61
LM3622M-4.1-ND	4.1V, Lithium-Ion Battery Charger Controller	8-SOIC	2.64	1.96	1.45
LM3622M-4.2-ND	4.2V, Lithium-Ion Battery Charger Controller	8-SOIC	2.64	1.96	1.45
LM3622M-8.2-ND	8.2V, Lithium-Ion Battery Charger Controller	8-SOIC	2.64	1.96	1.45
LM3622M-8.4-ND	8.4V, Lithium-Ion Battery Charger Controller	8-SOIC	2.64	1.96	1.45
LM3655TLCT-ND	Charge Control and Protection IC for Embedded Single Cell Li-Ion/Polymer Batteries	25-microSMD	3.80	2.89	2.21
LM3655TLTR-ND	Charge Control and Protection IC for Embedded Single Cell Li-Ion/Polymer Batteries	25-microSMD	505.40/250		
LM3658SDCT-ND	Dual Source USB/AC Li Chemistry Charger IC*	10-LLP	3.58	2.72	2.08
LM3658SDTR-ND	Dual Source USB/AC Li Chemistry Charger IC*	10-LLP	1801.80/1,000		
LM3670MF-ADJCT-ND	Adj., Mini Step-Down DC-DC Converter	SOT-23-5	3.20	2.44	1.86
LM3670MF-ADJTR-ND	Adj., Mini Step-Down DC-DC Converter	SOT-23-5	1612.80/1,000		
LM3670MF-1.2CT-ND	1.2V, Mini Step-Down DC-DC Converter ***NEW!***	SOT-23-5	3.20	2.44	1.86
LM3670MF-1.2TR-ND	1.2V, Mini Step-Down DC-DC Converter ***NEW!***	SOT-23-5	1612.80/1,000		
LM3670MF-1.5CT-ND	1.5V, Mini Step-Down DC-DC Converter ***NEW!***	SOT-23-5	3.20	2.44	1.86
LM3670MF-1.5TR-ND	1.5V, Mini Step-Down DC-DC Converter ***NEW!***	SOT-23-5	1612.80/1,000		
LM3670MF-1.6CT-ND	1.6V, Mini Step-Down DC-DC Converter ***NEW!***	SOT-23-5	3.20	2.44	1.86
LM3670MF-1.6TR-ND	1.6V, Mini Step-Down DC-DC Converter ***NEW!***	SOT-23-5	1612.80/1,000		
LM3670MF-1.8CT-ND	1.8V, Mini Step-Down DC-DC Converter	SOT-23-5	3.20	2.44	1.86
LM3670MF-1.8TR-ND	1.8V, Mini Step-Down DC-DC Converter	SOT-23-5	1612.80/1,000		
LM3670MF-1.875CT-ND	1.875V, Mini Step-Down DC-DC Converter ***NEW!***	SOT-23-5	3.20	2.44	1.86
LM3670MF-1.875TR-ND	1.875V, Mini Step-Down DC-DC Converter ***NEW!***	SOT-23-5	1612.80/1,000		
LM3670MF-2.5CT-ND	2.5V, Mini Step-Down DC-DC Converter*	SOT-23-5	3.20	2.44	1.86
LM3670MF-2.5TR-ND	2.5V, Mini Step-Down DC-DC Converter*	SOT-23-5	1612.80/1,000		
LM3670MF-3.3CT-ND	3.3V, Mini Step-Down DC-DC Converter*	SOT-23-5	3.20	2.44	1.86
LM3670MF-3.3TR-ND	3.3V, Mini Step-Down DC-DC Converter*	SOT-23-5	1612.80/1,000		
LM3670MFX-ADJCT-ND	Adj., Mini Step-Down DC-DC Converter ***NEW!***	SOT-23-5	3.20	2.44	1.86
LM3670MFX-ADJTR-ND	Adj., Mini Step-Down DC-DC Converter ***NEW!***	SOT-23-5	4800.00/3,000		

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM3671MF-ADJCT-ND	Adj., 600mA Step-Down DC-DC Converter	SOT-23-5	3.58	2.72	2.08
LM3671MF-ADJTR-ND	Adj., 600mA Step-Down DC-DC Converter	SOT-23-5	1801.80/1,000		
LM3671MF-1.2CT-ND	1.2V, 600mA Step-Down DC-DC Converter	SOT-23-5	3.58	2.72	2.08
LM3671MF-1.2TR-ND	1.2V, 600mA Step-Down DC-DC Converter	SOT-23-5	1801.80/1,000		
LM3671MF-1.25CT-ND	1.25V, 600mA Step-Down DC-DC Converter	SOT-23-5	3.58	2.72	2.08
LM3671MF-1.25TR-ND	1.25V, 600mA Step-Down DC-DC Converter	SOT-23-5	1801.80/1,000		
LM3671MF-1.375CT-ND	1.375V, 600mA Step-Down DC-DC Converter ***NEW!***	SOT-23-5	3.58	2.72	2.08
LM3671MF-1.375TR-ND	1.375V, 600mA Step-Down DC-DC Converter ***NEW!***	SOT-23-5	1801.80/1,000		
LM3671MF-1.5CT-ND	1.5V, 600mA Step-Down DC-DC Converter	SOT-23-5	3.58	2.72	2.08
LM3671MF-1.5TR-ND	1.5V, 600mA Step-Down DC-DC Converter	SOT-23-5	1801.80/1,000		
LM3671MF-1.6CT-ND	1.6V, 600mA Step-Down DC-DC Converter	SOT-23-5	3.58	2.72	2.08
LM3671MF-1.6TR-ND	1.6V, 600mA Step-Down DC-DC Converter	SOT-23-5	1801.80/1,000		
LM3671MF-1.8CT-ND	1.8V, 600mA Step-Down DC-DC Converter	SOT-23-5	3.58	2.72	2.08
LM3671MF-1.8TR-ND	1.8V, 600mA Step-Down DC-DC Converter	SOT-23-5	1801.80/1,000		
LM3671MF-1.875CT-ND	1.875V, 600mA Step-Down DC-DC Converter ***NEW!***	SOT-23-5	3.58	2.72	2.08
LM3671MF-1.875TR-ND	1.875V, 600mA Step-Down DC-DC Converter ***NEW!***	SOT-23-5	1801.80/1,000		
LM3671TL-1.2CT-ND	1.2V, 600mA Step-Down DC-DC Converter ***NEW!***	5-microSMD	3.58	2.72	2.08
LM3671TL-1.2TR-ND	1.2V, 600mA Step-Down DC-DC Converter ***NEW!***	5-microSMD	475.48/250		
LM3671TL-1.5CT-ND	1.5V, 600mA Step-Down DC-DC Converter ***NEW!***	5-microSMD	3.58	2.72	2.08
LM3671TL-1.5TR-ND	1.5V, 600mA Step-Down DC-DC Converter ***NEW!***	5-microSMD	475.48/250		
LM3671TL-1.8CT-ND	1.8V, 600mA Step-Down DC-DC Converter ***NEW!***	5-microSMD	3.58	2.72	2.08
LM3671TL-1.8TR-ND	1.8V, 600mA Step-Down DC-DC Converter ***NEW!***	5-microSMD	475.48/250		
LM3671TL-1.875CT-ND	1.875V, 600mA Step-Down DC-DC Converter ***NEW!***	5-microSMD	3.58	2.72	2.08
LM3671TL-1.875TR-ND	1.875V, 600mA Step-Down DC-DC Converter ***NEW!***	5-microSMD	475.48/250		
LM3700XBBP-270CT-ND	2.7V, Microprocessor Supervisory Circuit	9-microSMD	1.43	1.05	.76
LM3700XBBP-270TR-ND	2.7V, Microprocessor Supervisory Circuit	9-microSMD	142.50/250		
LM3700XCBP-290CT-ND	2.9V, Microprocessor Supervisory Circuit	9-microSMD	1.43	1.05	.76
LM3700XCBP-290TR-ND	2.9V, Microprocessor Supervisory Circuit	9-microSMD	142.50/250		
LM3700XCBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit	9-microSMD	1.43	1.05	.76
LM3700XCBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit	9-microSMD	142.50/250		
LM3701XBBP-420CT-ND	4.2V, Microprocessor Supervisory Circuit	9-microSMD	1.43	1.05	.76
LM3701XBBP-420TR-ND	4.2V, Microprocessor Supervisory Circuit	9-microSMD	142.50/250		
LM3701XCBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit	9-microSMD	1.43	1.05	.76
LM3701XCBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit	9-microSMD	142.50/250		
LM3702XCBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Manual Reset	9-microSMD	1.61	1.18	.86
LM3702XCBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Manual Reset	9-microSMD	160.50/250		
LM3702YABP-290CT-ND	2.9V, Microprocessor Supervisory Circuit with Manual Reset	9-microSMD	1.61	1.18	.86
LM3702YABP-290TR-ND	2.9V, Microprocessor Supervisory Circuit with Manual Reset	9-microSMD	160.50/250		
LM3702YABP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Manual Reset	9-microSMD	1.61	1.18	.86
LM3702YABP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Manual Reset	9-microSMD	160.50/250		
LM3702YCBP-220CT-ND	2.2V, Microprocessor Supervisory Circuit with Manual Reset	9-microSMD	1.61	1.18	.86
LM3702YCBP-220TR-ND	2.2V, Microprocessor Supervisory Circuit with Manual Reset	9-microSMD	160.50/250		
LM3703XCBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Manual Reset	9-microSMD	1.61	1.18	.86
LM3703XCBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Manual Reset	9-microSMD	160.50/250		
LM3704XBBP-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.65	1.97	1.46
LM3704XBBP-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	288.56/250		
LM3704XBBP-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.65	1.97	1.46
LM3704XBBP-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	288.56/250		
LM3704XBMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XBMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XBMM-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XBMM-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XCBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.65	1.97	1.46
LM3704XCBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	288.56/250		
LM3704XCMM-263CT-ND	2.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XCMM-263TR-ND	2.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XCMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XCMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XDBP-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.65	1.97	1.46
LM3704XDBP-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	288.56/250		
LM3704XDBP-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.65	1.97	1.46
LM3704XDBP-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	288.56/250		
LM3704XDMM-220CT-ND	2.2V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XDMM-220TR-ND	2.2V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XDMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XDMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704XDMM-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704XDMM-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM3704YAMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704YAMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704YBMM-360CT-ND	3.60V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704YBMM-360TR-ND	3.60V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704YCMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704YCMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3704YCMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3704YCMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3705XBBP-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.65	1.97	1.46
LM3705XBBP-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	288.56/250		
LM3705XBBP-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.65	1.97	1.46
LM3705XBBP-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	288.56/250		
LM3705XBMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3705XBMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3705XBMM-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3705XBMM-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3705XCBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.65	1.97	1.46
LM3705XCBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	288.56/250		
LM3705XCMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3705XCMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3705XDBP-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.65	1.97	1.46
LM3705XDBP-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	288.56/250		
LM3705XDBP-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.65	1.97	1.46
LM3705XDBP-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	288.56/250		
LM3705XDMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3705XDMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3705XDMM-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.50	1.86	1.38
LM3705XDMM-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1034.24/1,000		
LM3706XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	2.80	2.08	1.54
LM3706XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	304.76/250		
LM3707XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	2.80	2.08	1.54
LM3707XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	304.76/250		
LM3708XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	2.95	2.19	1.62
LM3708XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	320.63/250		
LM3708XQTP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output ***NEW!***	9-microSMD	2.95	2.19	1.62
LM3708XQTP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output ***NEW!***	9-microSMD	320.63/250		
LM3709XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	2.95	2.19	1.62
LM3709XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Low Line Output	9-microSMD	320.63/250		
LM3710XKBP-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
LM3710XKBP-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3710XKBP-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
LM3710XKBP-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3710XKMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3710XKMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3710XKMM-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3710XKMM-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3710XNMM-450CT-ND	4.5V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3710XNMM-450TR-ND	4.5V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3710XNMM-470CT-ND	4.70V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3710XNMM-470TR-ND	4.70V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3710XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM3710XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3710XQMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3710XQMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3710YQMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3710YQMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3711XKBP-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
LM3711XKBP-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3711XKBP-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
LM3711XKBP-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3711XKMM-232CT-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3711XKMM-232TR-ND	2.32V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3711XKMM-463CT-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3711XKMM-463TR-ND	4.63V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3711XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
LM3711XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3711XQMM-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	2.63	2.00	1.53
LM3711XQMM-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	10-MSOP	1323.00/1,000		
LM3712XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
LM3712XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3713XQBP-308CT-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	2.85	2.17	1.66
LM3713XQBP-308TR-ND	3.08V, Microprocessor Supervisory Circuit with Power Fail Input	9-microSMD	379.05/250		
LM3722EM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3722EM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3722EM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3722EM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3722EM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3722EM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3722IM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3722IM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3722IM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3722IM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3722IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3722IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3723EM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3723EM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3723EM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3723EM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3723EM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3723EM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3723IM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3723IM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3723IM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3723IM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3723IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3723IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3724EM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3724EM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3724EM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3724EM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3724EM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.80	2.08	1.54
LM3724EM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	1155.84/1,000		
LM3724IM5-2.32CT-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3724IM5-2.32TR-ND	2.32V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3724IM5-3.08CT-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3724IM5-3.08TR-ND	3.08V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3724IM5-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	2.36	1.75	1.30
LM3724IM5-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23-5	972.80/1,000		
LM3812M-1.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.20	2.44	1.86
LM3812M-7.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.20	2.44	1.86
LM3813M-1.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.20	2.44	1.86
LM3813M-7.0-ND	Precision Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.20	2.44	1.86
LM3814M-1.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.20	2.44	1.86
LM3814M-7.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, High Side	8-SOIC	3.20	2.44	1.86
LM3815M-1.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.20	2.44	1.86
LM3815M-7.0-ND	Fast Current Gauge IC with Ultra Low Loss Sense Element and PWM Output, Low Side	8-SOIC	3.20	2.44	1.86
LM3822MM-1.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP	3.00	2.28	1.74
LM3822MM-1.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP	1512.00/1,000		
LM3822MM-2.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP	3.00	2.28	1.74
LM3822MM-2.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, High Side	8-MSOP	1512.00/1,000		
LM3824MM-1.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP	3.00	2.28	1.74
LM3824MM-1.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP	1512.00/1,000		
LM3824MM-2.0CT-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP	3.00	2.28	1.74
LM3824MM-2.0TR-ND	Precision Current Gauge IC with Internal Zero Ohm Sense Element and PWM Output, Low Side	8-MSOP	1512.00/1,000		
LM3875T-ND	High Performance 56W Audio Power Amp	TO-220-11	5.78	4.39	3.35
LM3875TF-ND	High Performance 56W Audio Power Amp	TO-220-11	6.18	4.70	3.59
LM3876T-ND	High Performance 56W Audio Power Amp with Mute	TO-220-11	4.90	3.73	2.85
LM3876TF-ND	High Performance 56W Audio Power Amp with Mute	TO-220-11	5.78	4.39	3.35
LM3886T-ND	High Performance 68W Audio Power Amp with Mute	TO-220-11	6.18	4.70	3.59
LM3886TF-ND	High Performance 68W Audio Power Amp with Mute	TO-220-11	5.36	4.24	3.40
LM3914N-1-ND	Dot/Bar Display Driver	18-Dip	2.87	2.14	1.58
LM3914V-ND	Dot/Bar Graph Display Driver	20-PLCC	3.48	2.65	2.02
LM3914VXCT-ND	Dot/Bar Graph Display Driver ***NEW!***	20-PLCC	3.48	2.65	2.02
LM3914VXTR-ND	Dot/Bar Graph Display Driver ***NEW!***	20-PLCC	1751.40/1,000		
LM3915N-1-ND	Dot/Bar Display Driver	18-Dip	2.64	1.96	1.45
LM3916N-1-ND	Dot/Bar Display Driver	18-Dip	2.64	1.96	1.45
LM3940IMP-3.3CT-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	SOT-223	1.92	1.43	1.06
LM3940IMP-3.3TR-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	SOT-223	793.60/1,000		
LM3940IS-3.3-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	TO-263	2.11	1.57	1.16
LM3940ISX-3.3TR-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	TO-263	442.00/500		
LM3940IT-3.3-ND	1A Low Dropout Regulator for 5V to 3.3V Conversion	TO-220	2.06	1.53	1.13
LM4040AIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	2.15	1.60	1.18
LM4040AIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	885.76/1,000		
LM4040AIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	2.15	1.60	1.18
LM4040AIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	885.76/1,000		
LM4040AIM3-5.0CT-ND	5V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	2.15	1.60	1.18
LM4040AIM3-5.0TR-ND	5V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	885.76/1,000		
LM4040AIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	2.15	1.60	1.18
LM4040AIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	885.76/1,000		
LM4040AIM3-10.0CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	2.15	1.60	1.18
LM4040AIM3-10.0TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	885.76/1,000		
LM4040AIM3X-10CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	2.15	1.60	1.18
LM4040AIM3X-10TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	2595.00/3,000		
LM4040AIZ-2.5-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.1%	TO-92	2.15	1.60	1.18
LM4040AIZ-4.1-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.1%	TO-92	2.15	1.60	1.18
LM4040AIZ-5.0-ND	5V, Prec. Micropower Shunt Voltage Reference ±.1%	TO-92	2.15	1.60	1.18
LM4040AIZ-10.0-ND	10V, Prec. Micropower Shunt Voltage Reference ±.1%	TO-92	2.15	1.60	1.18
LM4040BIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	1.63	1.22	.90
LM4040BIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	674.56/1,000		
LM4040BIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	1.63	1.22	.90
LM4040BIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	674.56/1,000		
LM4040BIM3-5.0CT-ND	5V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	1.63	1.22	.90
LM4040BIM3-5.0TR-ND	5V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	674.56/1,000		
LM4040BIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	1.63	1.22	.90
LM4040BIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	674.56/1,000		
LM4040BIM3-10.0CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	1.63	1.22	.90
LM4040BIM3-10.0TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	674.56/1,000		
LM4040BIM7-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.2%	SC70-5	1.63	1.22	.90
LM4040BIM7-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.2%	SC70-5	674.56/1,000		
LM4040BIM7-4.1CT-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.2%	SC70-5	1.63	1.22	.90
LM4040BIM7-4.1TR-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.2%	SC70-5	674.56/1,000		
LM4040BIZ-2.5-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.2%	TO-92	1.63	1.22	.90
LM4040BIZ-4.1-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.2%	TO-92	1.63	1.22	.90
LM4040BIZ-5.0-ND	5V, Prec. Micropower Shunt Voltage Reference ±.2%	TO-92	1.63	1.22	.90
LM4040CIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1.15	.85	.62
LM4040CIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	397.80/1,000		
LM4040CIM3-4.1NSCT-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1.15	.85	.62
LM4040CIM3-4.1NSTR-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	397.80/1,000		
LM4040CIM3-5.0NSCT-ND	5V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1.15	.85	.62
LM4040CIM3-5.0NSTR-ND	5V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	397.80/1,000		
LM4040CIM3-8.2CT-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1.15	.85	.62
LM4040CIM3-8.2TR-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	397.80/1,000		
LM4040CIM3-10.0CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1.15	.85	.62
LM4040CIM3-10.0TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	397.80/1,000		
LM4040CIM3X-10CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1.15	.85	.62
LM4040CIM3X-10TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1170.45/3,000		
LM4040CIM7-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.5%	SC-70-5	1.15	.85	.62
LM4040CIM7-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.5%	SC-70-5	397.80/1,000		
LM4040CIZ-2.5-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±.5%	TO-92	1.15	.85	.62
LM4040CIZ-4.1-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±.5%	TO-92	1.15	.85	.62
LM4040CIZ-5.0-ND	5V, Prec. Micropower Shunt Voltage Reference ±.5%	TO-92	1.15	.85	.62
LM4040CIZ-8.2-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±.5%	TO-92	1.15	.85	.62
LM4040CIZ-10.0-ND	10V, Prec. Micropower Shunt Voltage Reference ±.5%	TO-92	1.15	.85	.62
LM4040DEM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	.99	.73	.53
LM4040DEM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	344.50/1,000		
LM4040DEM3-5.0CT-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	.99	.73	.53
LM4040DEM3-5.0TR-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	344.50/1,000		
LM4040DIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	.99	.73	.53
LM4040DIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	343.20/1,000		
LM4040DIM3-4.1CT-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	.99	.73	.53
LM4040DIM3-4.1TR-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	343.20/1,000		
LM4040DIM3-5.0NSCT-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	.99	.73	.53
LM4040DIM3-5.0NSTR-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	343.20/1,000		
LM4040DIM3-10.0CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	.99	.73	.53
LM4040DIM3-10.0TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	343.20/1,000		
LM4040DIM3X-10CT-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	.99	.73	.53
LM4040DIM3X-10TR-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%	SOT-23	1009.80/3,000		
LM4040DIZ-2.5-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±1%	TO-92	.99	.73	.53
LM4040DIZ-4.1-ND	4.1V, Prec. Micropower Shunt Voltage Reference ±1%	TO-92	.99	.73	.53
LM4040DIZ-5.0-ND	5V, Prec. Micropower Shunt Voltage Reference ±1%	TO-92	.99	.73	.53
LM4040DIZ-8.2-ND	8.2V, Prec. Micropower Shunt Voltage Reference ±1%	TO-92	.99	.73	.53
LM4040DIZ-10.0-ND	10V, Prec. Micropower Shunt Voltage Reference ±1%	TO-92	.99	.73	.53
LM4040EEM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23	.97	.71	.52
LM4040EEM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23	335.40/1,000		
LM4040EIM3-2.5CT-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23	.99	.72	.52

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4040EIM3-2.5TR-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23	309.40/1,000		
LM4040EIZ-2.5-ND	2.5V, Prec. Micropower Shunt Voltage Reference ±2%	TO-92	.99	.72	.52
LM4041AIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	2.15	1.60	1.18
LM4041AIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.1%	SOT-23	885.76/1,000		
LM4041AIZ-1.2-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.1%	TO-92	2.15	1.60	1.18
LM4041BIZ-1.2-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.2%	TO-92	1.63	1.22	.90
LM4041BIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	1.63	1.22	.90
LM4041BIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.2%	SOT-23	674.56/1,000		
LM4041CEM3-ADJCT-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1.16	.85	.62
LM4041CEM3-ADJTR-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	401.70/1,000		
LM4041CEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1.16	.85	.62
LM4041CEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	401.70/1,000		
LM4041CIM3-1.2NSCT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1.15	.85	.62
LM4041CIM3-1.2NSTR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	397.80/1,000		
LM4041CIM3-ADJCT-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	1.15	.85	.62
LM4041CIM3-ADJTR-ND	Adj. Prec. Micropower Shunt Voltage Reference ±.5%	SOT-23	397.80/1,000		
LM4041CIM7-ADJCT-ND	Adj., Prec. Micropower Shunt Voltage Reference ±.5%	SC-70-5	1.15	.85	.62
LM4041CIM7-ADJTR-ND	Adj., Prec. Micropower Shunt Voltage Reference ±.5%	SC-70-5	397.80/1,000		
LM4041CIM7-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%	SC-70-5	1.15	.85	.62
LM4041CIM7-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%	SC-70-5	397.80/1,000		
LM4041CIZ-1.2-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±.5%	TO-92	1.15	.85	.62
LM4041CIZ-ADJ-ND	Adj., Prec. Micropower Shunt Voltage Reference ±.5%	TO-92	1.15	.85	.62
LM4041DEM3-ADJCT-ND	Adj., Prec. Micropower Shunt Voltage Reference ±1.0%	SOT-23	.99	.73	.53
LM4041DEM3-ADJTR-ND	Adj., Prec. Micropower Shunt Voltage Reference ±1.0%	SOT-23	344.50/1,000		
LM4041DEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±1.0%	SOT-23	.99	.73	.53
LM4041DEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±1.0%	SOT-23	344.50/1,000		
LM4041DIM3-1.2NSCT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±1.0%	SOT-23	.99	.73	.53
LM4041DIM3-1.2NSTR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±1.0%	SOT-23	343.20/1,000		
LM4041DIM3-ADJNSCT-ND	Adj., Prec. Micropower Shunt Voltage Reference ±1.0%	SOT-23	.99	.73	.53
LM4041DIM3-ADJNSTR-ND	Adj., Prec. Micropower Shunt Voltage Reference ±1.0%	SOT-23	343.20/1,000		
LM4041DIZ-ADJ-ND	Adj., Prec. Micropower Shunt Voltage Reference ±1.0%	TO-92	.99	.73	.53
LM4041DIZ-1.2-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±1.0%	TO-92	.99	.73	.53
LM4041EEM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23	.97	.71	.52
LM4041EEM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23	335.40/1,000		
LM4041EIM3-1.2CT-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23	.99	.72	.52
LM4041EIM3-1.2TR-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±2%	SOT-23	309.40/1,000		
LM4041EIZ-1.2-ND	1.2V, Prec. Micropower Shunt Voltage Reference ±2%	TO-92	.99	.72	.52
LM4050AEM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AEM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4050AEM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AEM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4050AEM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AEM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4050AEM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AEM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4050AEM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4050AEM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4050AIM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.65	2.02	1.54
LM4050AIM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	1335.60/1,000		
LM4050AIM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	2.65	2.02	1.54
LM4050AIM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	1335.60/1,000		
LM4050AIM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.65	2.02	1.54
LM4050AIM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	1335.60/1,000		
LM4050AIM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.65	2.02	1.54
LM4050AIM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1335.60/1,000		
LM4050AIM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	2.65	2.02	1.54
LM4050AIM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	1335.60/1,000		
LM4050BEM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4050BEM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4050BEM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4050BEM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4050BEM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4050BEM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4050BEM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4050BEM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4050BEM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4050BEM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4050BIM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.17	1.61	1.19
LM4050BIM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	896.00/1,000		
LM4050BIM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	2.17	1.61	1.19
LM4050BIM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	896.00/1,000		
LM4050BIM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.17	1.61	1.19
LM4050BIM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	896.00/1,000		
LM4050BIM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.17	1.61	1.19
LM4050BIM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	896.00/1,000		
LM4050BIM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	2.17	1.61	1.19
LM4050BIM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	896.00/1,000		
LM4050CEM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4050CEM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4050CEM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4050CEM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4050CEM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4050CEM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4050CEM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4050CEM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4050CEM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4050CEM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4050CIM3-2.5CT-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	1.74	1.29	.96
LM4050CIM3-2.5TR-ND	2.5V, Precision Micropower Shunt Voltage Reference	SOT-23	716.80/1,000		
LM4050CIM3-4.1CT-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	1.74	1.29	.96
LM4050CIM3-4.1TR-ND	4.1V, Precision Micropower Shunt Voltage Reference	SOT-23	716.80/1,000		
LM4050CIM3-5.0CT-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	1.74	1.29	.96
LM4050CIM3-5.0TR-ND	5V, Precision Micropower Shunt Voltage Reference	SOT-23	716.80/1,000		
LM4050CIM3-8.2CT-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1.74	1.29	.96
LM4050CIM3-8.2TR-ND	8.2V, Precision Micropower Shunt Voltage Reference	SOT-23	716.80/1,000		
LM4050CIM3-10CT-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	1.74	1.29	.96
LM4050CIM3-10TR-ND	10V, Precision Micropower Shunt Voltage Reference	SOT-23	716.80/1,000		
LM4051AEM3-ADJCT-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4051AEM3-ADJTR-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4051AEM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.98	2.27	1.73
LM4051AEM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1499.40/1,000		
LM4051AIM3-ADJCT-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	2.65	2.02	1.54
LM4051AIM3-ADJTR-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	1335.60/1,000		
LM4051AIM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.65	2.02	1.54
LM4051AIM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1335.60/1,000		

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4051BEM3-ADJCT-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4051BEM3-ADJTR-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4051BEM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.57	1.91	1.42
LM4051BEM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1062.40/1,000		
LM4051BIM3-ADJCT-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	2.11	1.57	1.16
LM4051BIM3-ADJTR-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	870.40/1,000		
LM4051BIM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.11	1.57	1.16
LM4051BIM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	870.40/1,000		
LM4051CEM3-ADJCT-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4051CEM3-ADJTR-ND	Adj. Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4051CEM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	2.33	1.73	1.28
LM4051CEM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	960.00/1,000		
LM4051CIM3-ADJCT-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	1.95	1.45	1.08
LM4051CIM3-ADJTR-ND	Adj., Precision Micropower Shunt Voltage Reference	SOT-23	806.40/1,000		
LM4051CIM3-1.2CT-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	1.95	1.45	1.08
LM4051CIM3-1.2TR-ND	1.2V, Precision Micropower Shunt Voltage Reference	SOT-23	806.40/1,000		
LM4120AIM5-1.8CT-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-1.8TR-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-2.0CT-ND	2V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-2.0TR-ND	2V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-2.5CT-ND	2.5V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-2.5TR-ND	2.5V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-3.0CT-ND	3V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-3.0TR-ND	3V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-3.3CT-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-3.3TR-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-4.1CT-ND	4.1V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-4.1TR-ND	4.1V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120AIM5-5.0CT-ND	5V, Precision Micropower LDO Reference	SOT-23-5	2.95	2.19	1.62
LM4120AIM5-5.0TR-ND	5V, Precision Micropower LDO Reference	SOT-23-5	1216.00/1,000		
LM4120IM5-1.8CT-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	2.50	1.86	1.38
LM4120IM5-1.8TR-ND	1.8V, Precision Micropower LDO Reference	SOT-23-5	1034.24/1,000		
LM4120IM5-2.0CT-ND	2V, Precision Micropower LDO Reference	SOT-23-5	2.50	1.86	1.38
LM4120IM5-2.0TR-ND	2V, Precision Micropower LDO Reference	SOT-23-5	1034.24/1,000		
LM4120IM5-2.5CT-ND	2.5V, Precision Micropower LDO Reference	SOT-23-5	2.50	1.86	1.38
LM4120IM5-2.5TR-ND	2.5V, Precision Micropower LDO Reference	SOT-23-5	1034.24/1,000		
LM4120IM5-3.0CT-ND	3V, Precision Micropower LDO Reference	SOT-23-5	2.50	1.86	1.38
LM4120IM5-3.0TR-ND	3V, Precision Micropower LDO Reference	SOT-23-5	1034.24/1,000		
LM4120IM5-3.3CT-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	2.50	1.86	1.38
LM4120IM5-3.3TR-ND	3.3V, Precision Micropower LDO Reference	SOT-23-5	1034.24/1,000		
LM4120IM5-4.1CT-ND	4.1V, Precision Micropower LDO Reference	SOT-23-5	2.50	1.86	1.38
LM4120IM5-4.1TR-ND	4.1V, Precision Micropower LDO Reference	SOT-23-5	1034.24/1,000		
LM4120IM5-5.0CT-ND	5V, Precision Micropower LDO Reference	SOT-23-5	2.50	1.86	1.38
LM4120IM5-5.0TR-ND	5V, Precision Micropower LDO Reference	SOT-23-5	1034.24/1,000		
LM4121AIM5-ADJCT-ND	Adj., Precision Micropower LDO Voltage Reference	SOT-23-5	2.64	1.96	1.45
LM4121AIM5-ADJTR-ND	Adj., Precision Micropower LDO Voltage Reference	SOT-23-5	1088.00/1,000		
LM4121AIM5-1.2CT-ND	1.2V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.64	1.96	1.45
LM4121AIM5-1.2TR-ND	1.2V, Precision Micropower LDO Voltage Reference	SOT-23-5	1088.00/1,000		
LM4121IM5-ADJCT-ND	Adj., Precision Micropower LDO Voltage Reference	SOT-23-5	2.24	1.67	1.23
LM4121IM5-ADJTR-ND	Adj., Precision Micropower LDO Voltage Reference	SOT-23-5	925.44/1,000		
LM4121IM5-1.2CT-ND	1.2V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.24	1.67	1.23
LM4121IM5-1.2TR-ND	1.2V, Precision Micropower LDO Voltage Reference	SOT-23-5	925.44/1,000		
LM4125AIM5-2.0CT-ND	2V, Precision Micropower LDO Voltage Reference	SOT-23-5	3.93	2.99	2.28
LM4125AIM5-2.0TR-ND	2V, Precision Micropower LDO Voltage Reference	SOT-23-5	1978.20/1,000		
LM4125AIM5-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	3.93	2.99	2.28
LM4125AIM5-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	1978.20/1,000		
LM4125AIM5-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	3.93	2.99	2.28
LM4125AIM5-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	1978.20/1,000		
LM4125IM5-2.0CT-ND	2V, Precision Micropower LDO Voltage Reference	SOT-23-5	3.60	2.74	2.09
LM4125IM5-2.0TR-ND	2V, Precision Micropower LDO Voltage Reference	SOT-23-5	1814.40/1,000		
LM4125IM5-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	3.60	2.74	2.09
LM4125IM5-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	1814.40/1,000		
LM4125IM5-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	3.60	2.74	2.09
LM4125IM5-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	1814.40/1,000		
LM4130AIM5-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	6.26	4.95	3.97
LM4130AIM5-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	3695.20/1,000		
LM4130AIM5-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	6.26	4.95	3.97
LM4130AIM5-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	3695.20/1,000		
LM4130BIM5-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	5.10	3.88	2.96
LM4130BIM5-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	2570.40/1,000		
LM4130BIM5-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	5.10	3.88	2.96
LM4130BIM5-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	2570.40/1,000		
LM4130CIM5-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	4.25	3.23	2.47
LM4130CIM5-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	2142.00/1,000		
LM4130CIM5-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	4.25	3.23	2.47
LM4130CIM5-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	2142.00/1,000		
LM4130DIM5-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	3.23	2.46	1.88
LM4130DIM5-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	1625.40/1,000		
LM4130DIM5-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	3.23	2.46	1.88
LM4130DIM5-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	1625.40/1,000		
LM4130EIM5-2.5CT-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.88	2.19	1.67
LM4130EIM5-2.5TR-ND	2.5V, Precision Micropower LDO Voltage Reference	SOT-23-5	1449.00/1,000		
LM4130EIM5-4.1CT-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	2.88	2.19	1.67
LM4130EIM5-4.1TR-ND	4.1V, Precision Micropower LDO Voltage Reference	SOT-23-5	1449.00/1,000		
LM4140ACM-1.0-ND	1V, Precision Micropower LDO Voltage Reference	8-SOIC	7.98	6.31	5.06
LM4140ACM-1.2-ND	1.2V, Precision Micropower LDO Voltage Reference	8-SOIC	7.98	6.31	5.06
LM4140ACM-2.0-ND	2V, Precision Micropower LDO Voltage Reference	8-SOIC	7.98	6.31	5.06
LM4140ACM-2.5-ND	2.5V, Precision Micropower LDO Voltage Reference	8-SOIC	7.98	6.31	5.06
LM4140BCM-1.0-ND	1V, Precision Micropower LDO Voltage Reference	8-SOIC	5.69	4.50	3.61
LM4140BCM-1.2-ND	1.2V, Precision Micropower LDO Voltage Reference	8-SOIC	5.69	4.50	3.61
LM4140BCM-2.0-ND	2V, Precision Micropower LDO Voltage Reference	8-SOIC	5.69	4.50	3.61
LM4140BCM-2.5-ND	2.5V, Precision Micropower LDO Voltage Reference	8-SOIC	5.69	4.50	3.61
LM4140BCM-4.1-ND	4.1V, Precision Micropower LDO Voltage Reference	8-SOIC	5.69	4.50	3.61
LM4140CCM-1.0-ND	1V, Precision Micropower LDO Voltage Reference	8-SOIC	3.58	2.72	2.08
LM4140CCM-1.2-ND	1.2V, Precision Micropower LDO Voltage Reference	8-SOIC	3.58	2.72	2.08
LM4140CCM-2.0-ND	2V, Precision Micropower LDO Voltage Reference	8-SOIC	3.58	2.72	2.08
LM4140CCM-2.5-ND	2.5V, Precision Micropower LDO Voltage Reference	8-SOIC	3.58	2.72	2.08
LM4140CCM-4.1-ND	4.1V, Precision Micropower LDO Voltage Reference	8-SOIC	3.58	2.72	2.08
LM4250CM-ND	Programmable Op Amp	8-SOIC	1.34	.99	.72
LM4250CMXTR-ND	Programmable Op Amp	8-SOIC	1137.94/2,500		

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM4250CN-ND	Programmable Op Amp	8-Dip	1.40	1.03	.75
LM4431M3-2.5CT-ND	Precision Voltage Micropower Shunt Voltage Reference	SOT-23	1.16	.86	.62
LM4431M3-2.5TR-ND	Precision Voltage Micropower Shunt Voltage Reference	SOT-23	403.00/1,000		
LM4550BVH-ND	AC '97 Rev 2.1 Multi-Ch. Audio Codec w/Stereo Headphone Amp, Sample Rate Conversion and National 3D Sound ***NEW!***	48-LQFP	5.80	4.59	3.59
LM4550VH-ND	AC '97 Rev 2.1 Multi-Ch. Audio Codec with Stereo Headphone Amp, Sample Rate Conversion and National 3D Sound	48-LQFP	5.15	3.92	2.99
LM4651N-ND	170W Class D Audio Power Amp Solution	28-Dip	5.80	4.59	3.68
LM4652TA-ND	170W Class D Audio Power Amp Solution	TO-220-15	5.85	4.45	3.40
LM4663MT-ND	2W Stereo Class D Audio Power Amp with Stereo Headphone Amp	24-TSSOP	3.23	2.46	1.88
LM4665ITLCT-ND	Filterless High Efficiency 1W Switching Audio Amp*	9-microSMD	3.01	2.24	1.65
LM4665ITLTR-ND	Filterless High Efficiency 1W Switching Audio Amp*	9-microSMD	327.38/250		
LM4665LDCT-ND	Filterless High Eff. 1W Switching Audio Amp*	10-LLP	2.60	1.98	1.51
LM4665LDTR-ND	Filterless High Eff. 1W Switching Audio Amp*	10-LLP	1310.40/1,000		
LM4665MMCT-ND	Filterless High Efficiency 1W Switching Audio Amp*	10-MSOP	2.63	2.00	1.53
LM4665MMTR-ND	Filterless High Efficiency 1W Switching Audio Amp*	10-MSOP	1323.00/1,000		
LM4666SDCT-ND	1.2W Switching Audio Amp	14-LLP	2.65	1.97	1.46
LM4666SDTR-ND	1.2W Switching Audio Amp	14-LLP	1094.40/1,000		
LM4667ITL-ND	1.3W Switching Audio Amp	9-microSMD	1.71	1.26	.92
LM4667MMCT-ND	1.3W Switching Audio Amp	10-MSOP	1.64	1.21	.88
LM4667MMTR-ND	1.3W Switching Audio Amp	10-MSOP	568.10/1,000		
LM4668LDCT-ND	10W High Efficiency Mono BTL Audio Power Amp	14-LLP	5.73	4.36	3.33
LM4668LDTR-ND	10W High Efficiency Mono BTL Audio Power Amp	14-LLP	761.43/250		
LM4668MH-ND	10W High Efficiency Mono BTL Audio Power Amp	20-TSSOP	5.73	4.36	3.33
LM4680SDCT-ND	10W High Efficiency Mono BTL Audio Power Amp	14-LLP	5.58	4.24	3.24
LM4680SDTR-ND	10W High Efficiency Mono BTL Audio Power Amp	14-LLP	741.48/250		
LM4700TF-ND	Overture 30W Audio Power Amp with Mute/Standby	TO-220	4.25	3.23	2.47
LM4701T-ND	30W Audio Power Amp with Mute/Standby Modes	TO-220-9	2.78	2.11	1.61
LM4702CTA-ND	*Overture*® Audio Power Amp ***NEW!***	TO-220-15	8.99	7.11	5.70
LM4730TA-ND	Stereo 14W Audio Power Amp ***NEW!***	TO-220-15	5.95	4.53	3.46
LM4731TA-ND	Stereo 25W Audio Power Amp with Mute/Standby	TO-220-15	5.53	4.20	3.21
LM4752T-ND	11W Stereo Audio Amp	TO-220-7	2.64	1.96	1.45
LM4752TS-ND	11W Stereo Audio Amp	TO-263-7	2.91	2.17	1.60
LM4755T-ND	11W Stereo Audio Amp with Mute	TO-220-9	2.64	1.96	1.45
LM4755TS-ND	11W Stereo Audio Amp with Mute	TO-263-9	2.64	1.96	1.45
LM4765T-ND	30W Audio Power Amp with Mute/Standby Modes	TO-220-15	5.33	4.05	3.09
LM4766T-ND	Dual 40W Audio Power Amp with Mute	TO-220-15	6.18	4.70	3.59
LM4766TF-ND	Dual 30W Audio Power Amp with Mute	TO-220-15	5.36	4.24	3.40
LM4780TA-ND	Stereo 60W Audio Power Amp with Mute	TO-220	9.49	8.13	7.21
LM4781TA-ND	3-Channel 35W Audio Power Amp with Mute	TO-220-27	9.28	7.34	5.88
LM4782TA-ND	3-Channel 25W Audio Power Amp with Mute	TO-220	7.50	5.93	4.75
LM4802BLQCT-ND	Audio Power Amp with Boost Converter	28-LLP	4.28	3.25	2.48
LM4802BLQTR-ND	Audio Power Amp with Boost Converter	28-LLP	2154.60/1,000		
LM4804LQCT-ND	Low Voltage High Power Audio Amp*	28-LLP	4.75	3.61	2.76
LM4804LQTR-ND	Low Voltage High Power Audio Amp*	28-LLP	2394.00/1,000		
LM4805LQCT-ND	3V, 1W, Boosted Boomer®*	28-LLP	4.50	3.42	2.61
LM4805LQTR-ND	3V, 1W, Boosted Boomer®*	28-LLP	2268.00/1,000		
LM4808LDCT-ND	Dual 105mW Headphone Amp	8-LLP	.95	.69	.50
LM4808LDTR-ND	Dual 105mW Headphone Amp	8-LLP	294.00/1,000		
LM4808M-ND	Dual 105mW Headphone Amp	8-SOIC	.81	.59	.43
LM4808MMCT-ND	Dual 105mW Headphone Amp	8-MSOP	.81	.59	.43
LM4808MMTR-ND	Dual 105mW Headphone Amp	8-MSOP	252.00/1,000		
LM4809LDCT-ND	Dual 105mW Headphone Amp	8-LLP	1.24	.91	.66
LM4809LDTR-ND	Dual 105mW Headphone Amp	8-LLP	429.00/1,000		
LM4809LQCT-ND	Dual 105mW Headphone Amp ***NEW!***	8-LLP	1.09	.80	.58
LM4809LQTR-ND	Dual 105mW Headphone Amp ***NEW!***	8-LLP	377.00/1,000		
LM4809MA-ND	Dual 105mW Headphone Amp	8-SOIC	.90	.65	.47
LM4809MMCT-ND	Dual 105mW Headphone Amp	8-MSOP	.90	.65	.47
LM4809MMTR-ND	Dual 105mW Headphone Amp	8-MSOP	280.00/1,000		
LM4810LDCT-ND	Dual 105mW Headphone Amp with Shutdown	8-LLP	1.09	.80	.58
LM4810LDTR-ND	Dual 105mW Headphone Amp with Shutdown	8-LLP	377.00/1,000		
LM4810MA-ND	Dual 105mW Headphone Amp with Shutdown	8-SOIC	.90	.65	.47
LM4810MMCT-ND	Dual 105mW Headphone Amp with Shutdown	8-MSOP	.90	.65	.47
LM4810MMTR-ND	Dual 105mW Headphone Amp with Shutdown	8-MSOP	280.00/1,000		
LM4811LDCT-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode	10-LLP	1.78	1.31	.95
LM4811LDTR-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode	10-LLP	617.50/1,000		
LM4811MMCT-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode	10-MSOP	1.78	1.31	.95
LM4811MMTR-ND	Dual 105mW Headphone Amp with Digital Volume Control and Shutdown Mode	10-MSOP	617.50/1,000		
LM4820IBP-6CT-ND	1W Audio Power Amp	8-microSMD	1.77	1.32	.97
LM4820ITP-6CT-ND	1W Audio Power Amp	8-microSMD	1.77	1.32	.97
LM4820ITP-6TR-ND	1W Audio Power Amp	8-microSMD	192.38/250		
LM4832M-ND	Digital Controlled Tone and Volume Circuit with Stereo Audio Power Amp	28-SOIC	5.63	4.28	3.27
LM4832MT-ND	Digitally Controlled Tone and Volume Circuit with Stereo Audio Power Amp	28-TSSOP	4.23	3.22	2.46
LM4832MTXCT-ND	Digitally Controlled Tone and Volume Circuit with Stereo Audio Power Amp	28-TSSOP	4.23	3.22	2.46
LM4832MTXTR-ND	Digitally Controlled Tone and Volume Circuit with Stereo Audio Power Amp	28-TSSOP	5281.25/2,500		
LM4832N-ND	Digital Controlled Tone and Volume Circuit with Stereo Audio Power Amp	28-Dip	5.33	4.22	3.38
LM4834MS-ND	1.75W Audio Power Amp with DC Volume Control and Microphone Preamp	28-SSOP	4.25	3.23	2.47
LM4835LQCT-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain	28-LLP	3.05	2.32	1.77
LM4835LQTR-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain	28-LLP	1537.20/1,000		
LM4835MT-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain	28-TSSOP	3.83	2.91	2.22
LM4835MTE-ND	Stereo 2W Audio Power Amp with DC Volume Control and Selectable Gain	28-TSSOP	3.63	2.76	2.11
LM4836LQCT-ND	Stereo 2W Audio Power Amp with Bass Boost	28-LLP	3.05	2.32	1.77
LM4836LQTR-ND	Stereo 2W Audio Power Amp with Bass Boost	28-LLP	1537.20/1,000		
LM4836MT-ND	Stereo 2W Audio Power Amp with Bass Boost	28-TSSOP	3.83	2.91	2.22
LM4836MTE-ND	Stereo 2W Audio Power Amp with Bass Boost	28-TSSOP	3.63	2.76	2.11
LM4838GRCT-ND	Stereo 2W Audio Power Amp with Selectable Gain	49-UBGA	4.53	3.44	2.63
LM4838GRTR-ND	Stereo 2W Audio Power Amp with Selectable Gain	49-UBGA	2280.60/1,000		
LM4838ITLCT-ND	Stereo 2W Audio Power Amp with Selectable Gain	36-microSMD	4.28	3.25	2.48
LM4838ITLTR-ND	Stereo 2W Audio Power Amp with Selectable Gain	36-microSMD	568.58/250		
LM4838LQCT-ND	Stereo 2W Audio Power Amp with Selectable Gain	28-LLP	3.43	2.61	1.99
LM4838LQTR-ND	Stereo 2W Audio Power Amp with Selectable Gain	28-LLP	1726.20/1,000		
LM4838MT-ND	Stereo 2W Audio Power Amp with Selectable Gain	28-TSSOP	3.33	2.53	1.93
LM4838MTE-ND	Stereo 2W Audio Power Amp with Selectable Gain	28-TSSOP	2.67	1.98	1.47
LM4839LQCT-ND	Stereo 2W Audio Power Amp with Bass Boost	28-LLP	3.43	2.61	1.99
LM4839LQTR-ND	Stereo 2W Audio Power Amp with Bass Boost	28-LLP	1726.20/1,000		
LM4839MT-ND	Stereo 2W Audio Power Amp with Bass Boost	28-TSSOP	4.28	3.25	2.48
LM4839MTE-ND	Stereo 2W Audio Power Amp with Bass Boost	28-TSSOP	4.05	3.08	2.35
LM4840LQCT-ND	Stereo 2W Audio Power Amp with Digital Volume Control*	28-LLP	4.05	3.08	2.35
LM4840LQTR-ND	Stereo 2W Audio Power Amp with Digital Volume Control*	28-LLP	2041.20/1,000		
LM4840MH-ND	Stereo 2W Audio Power Amp ***NEW!***	28-TSSOP	4.05	3.08	2.35
LM4840MT-ND	Stereo 2W Audio Power Amp ***NEW!***	28-TSSOP	4.05	3.08	2.35
LM4841LQCT-ND	Stereo 2W Amp with DC Volume Control*	28-LLP	2.63	2.00	1.53
LM4841LQTR-ND	Stereo 2W Amp with DC Volume Control*	28-LLP	1323.00/1,000		
LM4841MH-ND	Stereo 2W Amp with DC Volume Control*	28-TSSOP	4.05	3.08	2.35
LM4841MT-ND	Stereo 2W Amp with DC Volume Control*	28-TSSOP	4.53	3.44	2.63
LM4842LQCT-ND	Stereo 2W Amp with DC Volume Control*	28-LLP	2.63	2.00	1.53
LM4842LQTR-ND	Stereo 2W Amp with DC Volume Control*	28-LLP	1323.00/1,000		
LM4842MH-ND	Stereo 2W Amp with DC Volume Control*	28-TSSOP	4.05	3.08	2.35
LM4842MT-ND	Stereo 2W Amp with DC Volume Control*	28-TSSOP	4.53	3.44	2.63
LM4845ITLCT-ND	Output Capacitorless Audio Subsystem	25-USMD	5.95	4.53	3.46
LM4845ITLTR-ND	Output Capacitorless Audio Subsystem	25-USMD	791.35/250		
LM4851ITLCT-ND	Integrated Audio Amp System ***NEW!***	18-microSMD	3.10	2.36	1.80
LM4851ITLTR-ND	Integrated Audio Amp System ***NEW!***	18-microSMD	412.30/250		
LM4851LQCT-ND	Integrated Audio Amp System*	24-LLP	3.10	2.36	1.80
LM4851LQTR-ND	Integrated Audio Amp System*	24-LLP	1562.40/1,000		
LM4852ITL-ND	1.1W Integrated Audio Amp	18-microSMD	3.10	2.36	1.80
LM4852LQCT-ND	1.1W Integrated Audio Amp	24-LLP	3.10	2.36	1.80
LM4852LQTR-ND	1.1W Integrated Audio Amp	24-LLP	1562.40/1,000		
LM4853LDCT-ND	Mono 1.5W/Stereo 300mW Power Amp*	14-LLP	2.79	2.07	1.53
LM4853LDTR-ND	Mono 1.5W/Stereo 300mW Power Amp*	14-LLP	1152.00/1,000		
LM4853MMCT-ND	Mono 1.5W/Stereo 300mW Power Amp	10-MSOP	2.95	2.19	1.62
LM4853MMTR-ND	Mono 1.5W/Stereo 300mW Power Amp	10-MSOP	1216.00/1,000		
LM4854IBLCT-ND	1.9W Monaural, 85mW Stereo Headphone Audio Amp*	12-microSMD	2.63	2.00	1.53
LM4854IBLTR-ND	1.9W Monaural, 85mW Stereo Headphone Audio Amp*	12-microSMD	349.13/250		
LM4854LDCT-ND	1.9W Monaural, 85mW Stereo Headphone Audio Amp*	14-LLP	2.65	2.02	1.54
LM4854LDTR-ND	1.9W Monaural, 85mW Stereo Headphone Audio Amp*	14-LLP	1335.60/1,000		
LM4854MT-ND	1.9W Monaural, 85mW Stereo Headphone Audio Amp ***NEW!***	14-TSSOP	2.53	1.92	1.47
LM4855IBLCT-ND	Integrated Audio Amp System*	18-microSMD	3.58	2.72	2.08
LM4855IBLTR-ND	Integrated Audio Amp System*	18-microSMD	475.48/250		
LM4855ITLCT-ND	Integrated Audio Amp System ***NEW!***	18-microSMD	3.10	2.36	1.80
LM4855ITLTR-ND	Integrated Audio Amp System ***NEW!***	18-microSMD	412.30/250		
LM4855LQCT-ND	Integrated Audio Amp System ***NEW!***	24-LLP	3.58	2.72	2.08
LM4855LQTR-ND	Integrated Audio Amp System ***NEW!***	24-LLP	1801.80/1,000		
LM4856ITL-ND	1.1W Integrated Audio Amp	18-microSMD	3.10	2.36	1.80
LM4856LQCT-ND	1.1W Integrated Audio Amp	18-LLP	3.10	2.36	1.80
LM4856LQTR-ND	1.1W Integrated Audio Amp	18-LLP	1562.40/1,000		
LM4857GRCT-ND	1.2W Stereo Audio Subsystem	49-UBGA	5.48	4.17	3.18
LM4857GRTR-ND	1.2W Stereo Audio Subsystem	49-UBGA	2759.40/1,000		
LM4857ITL-ND	1.2W Stereo Audio Subsystem	30-microSMD	5.23	3.98	3.04
LM4857SPCT-ND	1.2W Stereo Audio Subsystem	28-LLP	5.10	3.88	2.96
LM4857SPTR-ND	1.2W Stereo Audio Subsystem	28-LLP	2570.40/1,000		
LM4860M-ND	Series 1W Audio Power Amp with Shutdown Mode	16-SOIC	1.55	1.15	.85
LM4861M-ND	1.1W Audio Power Amp with Shutdown Mode	8-SOIC	1.55	1.15	.85
LM4861MXCT-ND	1.1W Audio Power Amp with Shutdown Mode ***NEW!***	8-SOIC	1.84	1.35	.98
LM4861MXTR-ND	1.1W Audio Power Amp with Shutdown Mode	8-SOIC	1562.50/2,500		
LM4862M-ND	675mW Audio Power Amp with Shutdown Mode	8-SOIC	1.80	1.32	.96
LM4863LQCT-ND	Dual 2.2W Audio Amp Plus Headphone Function	24-LLP	3.35	2.55	1.95
LM4863LQTR-ND	Dual 2.2W Audio Amp Plus Headphone Function	24-LLP	1688.40/1,000		
LM4863M-ND	Dual 2.2W Audio Amp Plus Headphone Function	16-SOIC	3.20	2.44	1.86
LM4863MT-ND	Dual 2.2W Audio Amp Plus Headphone Function	20-TSSOP	3.10	2.36	1.80
LM4863MTE-ND	Dual 2.2W Audio Amp Plus Headphone Function	20-TSSOP	3.10	2.36	1.80
LM4864LDCT-ND	725mW Audio Power Amp with Shutdown Mode	10-LLP	1.58	1.16	.84
LM4864LDTR-ND	725mW Audio Power Amp with Shutdown Mode	10-LLP	546.00/1,000		
LM4864M-ND	300mW Audio Power Amp with Shutdown Mode	8-SOIC	1.58	1.16	.84
LM4864MMCT-ND	300mW Audio Power Amp with Shutdown Mode	8-MSOP	1.61	1.19	.86
LM4864MMTR-ND	300mW Audio Power Amp with Shutdown Mode	8-MSOP	559.00/1,000		
LM4864MMXTR-ND	300mW Audio Power Amp with Shutdown Mode	8-MSOP	1918.88/3,500		
LM4865IBPCT-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-microSMD	2.05	1.52	1.13
LM4865IBPTR-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-microSMD	222.75/250		
LM4865M-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-SOIC	1.86	1.38	1.02
LM4865MMCT-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-MSOP	1.86	1.38	1.02
LM4865MMTR-ND	750mW Audio Power Amp with DC Volume Control and Headphone Switch	8-MSOP	768.00/1,000		
LM4866LQCT-ND	2.2W Stereo Audio Amp*	24-LLP	2.79	2.07	1.53
LM4866LQTR-ND	2.2W Stereo Audio Amp*	24-LLP	1152.00/1,000		
LM4866MT-ND	2.2W Stereo Audio Amp ***NEW!***	20-TSSOP	2.79	2.07	1.53
LM4866MTE-ND	2.2W Stereo Audio Amp ***NEW!***	20-TSSOP	2.79	2.07	1.53
LM4867LQCT-ND	Output-Transient-Free Dual 2.1W Audio Amp	24-LLP	3.43	2.61	1.99
LM4867LQTR-ND	Output-Transient-Free Dual 2.1W Audio Amp	24-LLP	1726.20/1,000		
LM4867MT-ND	Output-Transient-Free Dual 2.1W Audio Amp	20-TSSOP	3.28	2.49	1.90
LM4867MTE-ND	Output-Transient-Free Dual 2.1W Audio Amp	20-TSSOP	3.40	2.59	1.98
LM4868LQCT-ND	Output-Transient-Free Dual 2.1W Audio Amp	24-LLP	3.63	2.76	2.11
LM4868LQTR-ND	Output-Transient-Free Dual 2.1W Audio Amp	24-LLP	1827.00/1,000		
LM4868MT-ND	Output-Transient-Free Dual 2.1W Audio Amp	20-TSSOP	3.43	2.61	1.99
LM4868MTE-ND	Output-Transient Free Dual 2.1W Audio Amp	20-TSSOP	3.85	2.93	2.24
LM4869MH-ND	1.9W Diff. Input BTL Output Stereo Audio Amp*	20-TSSOP	2.85	2.17	1.66
LM4871LDCT-ND	3W Audio Power Amp with Shutdown Mode	8-LLP	1.84	1.35	.98
LM4871LDTR-ND	3W Audio Power Amp with Shutdown Mode	8-LLP	637.00/1,000		
LM4871M-ND	3W Audio Power Amp with Shutdown Mode	8-SOIC	1.39	1.02	.74
LM4871MMCT-ND	3W Audio Power Amp with Shutdown Mode	8-MSOP	1.39	1.02	.74
LM4871MMTR-ND	3W Audio Power Amp with Shutdown Mode	8-MSOP	481.00/1,000		

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM4872IBPCT-ND	1W Audio Power Amp	8-microSMD	1.67	1.25	.92
LM4872IBPTR-ND	1W Audio Power Amp	8-microSMD		182.25/250	
LM4872ITPCT-ND	1W Audio Power Amp	8-microSMD	1.71	1.27	.94
LM4872ITPTR-ND	1W Audio Power Amp	8-microSMD		185.63/250	
LM4873IBLCT-ND	Dual 2.1W Audio Amp + Stereo Headphone Function	20-microSMD	3.23	2.46	1.88
LM4873IBLTR-ND	Dual 2.1W Audio Amp + Stereo Headphone Function	20-microSMD		182.25/250	
LM4873LQCT-ND	Dual 2.1W Audio Amp + Stereo Headphone Function	24-LLP	3.13	2.38	1.82
LM4873LQTR-ND	Dual 2.1W Audio Amp + Stereo Headphone Function	24-LLP		1575.00/1,000	
LM4873MT-ND	Dual 2.1W Audio Amp + Stereo Headphone Function	20-TSSOP	2.55	1.94	1.48
LM4873MTE-ND	Dual 2.1W Audio Amp + Stereo Headphone Function	20-TSSOP	2.98	2.27	1.73
LM4873MTE-1-ND	Dual 2.1W Audio Amp + Stereo Headphone Function	28-TSSOP	4.78	3.63	2.77
LM4874MH-ND	2.1W Differential Input, BTL Output Stereo Audio Amp ***NEW!***	20-TSSOP	2.36	1.75	1.30
LM4876M-ND	1.1W Audio Power Amp with Logic Low Shutdown	8-SOIC	1.39	1.02	.74
LM4876MMCT-ND	1.1W Audio Power Amp with Logic Low Shutdown	10-MSOP	1.61	1.19	.86
LM4876MMTR-ND	1.1W Audio Power Amp with Logic Low Shutdown	10-MSOP		559.00/1,000	
LM4877IBPCT-ND	1W Audio Power Amp with Logic Low Shutdown	8-microSMD	1.86	1.38	1.02
LM4877IBPTR-ND	1W Audio Power Amp with Logic Low Shutdown	8-microSMD		202.50/250	
LM4877ITPCT-ND	1W Audio Power Amp with Logic Low Shutdown	8-microSMD	1.58	1.18	.87
LM4877ITPTR-ND	1W Audio Power Amp with Logic Low Shutdown	8-microSMD		172.13/250	
LM4878IBPCT-ND	1W Audio Power Amp with Logic Low Shutdown	8-microSMD	1.86	1.38	1.02
LM4878IBPTR-ND	1W Audio Power Amp with Logic Low Shutdown	8-microSMD		202.50/250	
LM4878ITPCT-ND	1W Audio Power Amp with Logic Low Shutdown	8-microSMD	1.58	1.18	.87
LM4878ITPTR-ND	1W Audio Power Amp with Logic Low Shutdown	8-microSMD		172.13/250	
LM4879IBLCT-ND	1.1W Audio Power Amp with Shutdown Mode	9-microSMD	1.92	1.43	1.06
LM4879IBLTR-ND	1.1W Audio Power Amp with Shutdown Mode	9-microSMD		208.58/250	
LM4879IBPCT-ND	1.1W Audio Power Amp with Shutdown Mode	8-microSMD	1.92	1.43	1.06
LM4879IBPTR-ND	1.1W Audio Power Amp with Shutdown Mode	8-microSMD		208.58/250	
LM4879ITLCT-ND	1.1W Audio Power Amp with Shutdown Mode*	9-microSMD	1.58	1.18	.87
LM4879ITLTR-ND	1.1W Audio Power Amp with Shutdown Mode*	9-microSMD		172.13/250	
LM4879ITPCT-ND	1.1W Audio Power Amp w/Shutdown Mode ***NEW!***	8-microSMD	1.58	1.18	.87
LM4879ITPTR-ND	1.1W Audio Power Amp w/Shutdown Mode ***NEW!***	8-microSMD		172.13/250	
LM4879MMCT-ND	1.1W Audio Power Amp with Shutdown Mode	10-MSOP	1.78	1.31	.95
LM4879MMTR-ND	1.1W Audio Power Amp with Shutdown Mode	10-MSOP		617.50/1,000	
LM4879SDCT-ND	1.1W Audio Power Amp with Shutdown Mode	8-LLP	1.62	1.21	.89
LM4879SDTR-ND	1.1W Audio Power Amp with Shutdown Mode	8-LLP		669.44/1,000	
LM4880M-ND	Dual 250mW Audio Power Amp with Shutdown Mode	8-SOIC	1.73	1.27	.92
LM4881M-ND	Dual 200mW Headphone Amp with Shutdown Mode	8-SOIC	1.58	1.18	.87
LM4881MMTR-ND	Dual 200mW Headphone Amp with Shutdown Mode	8-MSOP		652.80/1,000	
LM4881N-ND	Dual 200mW Headphone Amp with Shutdown Mode	8-Dip	1.77	1.32	.97
LM4882M-ND	Dual 250mW Audio Power Amp with Shutdown Mode	8-SOIC	1.28	.94	.68
LM4882MMCT-ND	Dual 250mW Audio Power Amp with Shutdown Mode	8-MSOP	1.28	.94	.68
LM4882MMTR-ND	Dual 250mW Audio Power Amp with Shutdown Mode	8-MSOP		442.00/1,000	
LM4888SQCT-ND	Dual 2.1W Audio Amp Plus Stereo Headphone and 3D Enhancement ***NEW!***	24-LLP	3.10	2.36	1.80
LM4888SQTR-ND	Dual 2.1W Audio Amp Plus Stereo Headphone and 3D Enhancement ***NEW!***	24-LLP		1562.40/1,000	
LM4889ITLCT-ND	1W Audio Power Amp ***NEW!***	8-microSMD	1.43	1.05	.76
LM4889ITLTR-ND	1W Audio Power Amp ***NEW!***	8-microSMD		142.50/250	
LM4889LDCT-ND	1W Audio Power Amp ***NEW!***	10-LLP	1.65	1.21	.88
LM4889LDTR-ND	1W Audio Power Amp ***NEW!***	10-LLP		572.00/1,000	
LM4889MA-ND	1W Audio Power Amp*	10-LLP	1.43	1.05	.76
LM4889MMCT-ND	1W Audio Power Amp*	8-MSOP	1.24	.91	.66
LM4889MMTR-ND	1W Audio Power Amp*	8-MSOP		429.00/1,000	
LM4890IBLCT-ND	1W Audio Power Amp with Shutdown Mode	9-microSMD	1.76	1.30	.94
LM4890IBLTR-ND	1W Audio Power Amp with Shutdown Mode	9-microSMD		176.25/250	
LM4890IBPCT-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD	1.76	1.30	.94
LM4890IBPTR-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD		176.25/250	
LM4890ITLCT-ND	1W Audio Power Amp with Shutdown Mode	9-microSMD	1.61	1.19	.86
LM4890ITLTR-ND	1W Audio Power Amp with Shutdown Mode	9-microSMD		161.25/250	
LM4890ITPCT-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD	1.76	1.30	.94
LM4890ITPTR-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD		176.25/250	
LM4890LDCT-ND	1W Audio Power Amp with Shutdown Mode	10-LLP	1.76	1.30	.94
LM4890LDTR-ND	1W Audio Power Amp with Shutdown Mode	10-LLP		611.00/1,000	
LM4890M-ND	1W Audio Power Amp with Shutdown Mode	8-SOIC	1.76	1.30	.94
LM4890MMCT-ND	1W Audio Power Amp with Shutdown Mode	8-MSOP	1.76	1.30	.94
LM4890MMTR-ND	1W Audio Power Amp with Shutdown Mode	8-MSOP		611.00/1,000	
LM4890MXTR-ND	1W Audio Power Amp with Shutdown Mode	8-SOIC		1498.13/2,500	
LM4891IBPCT-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD	2.06	1.53	1.14
LM4891IBPTR-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD		224.44/250	
LM4891ITPCT-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD	2.06	1.53	1.14
LM4891ITPTR-ND	1W Audio Power Amp with Shutdown Mode	8-microSMD		224.44/250	
LM4891LDCT-ND	1W Audio Power Amp with Shutdown Mode	10-LLP	2.06	1.53	1.14
LM4891LDTR-ND	1W Audio Power Amp with Shutdown Mode	10-LLP		851.20/1,000	
LM4891M-ND	1W Audio Power Amp with Shutdown Mode	8-SOIC	1.77	1.32	.97
LM4891MMCT-ND	1W Audio Power Amp with Shutdown Mode	8-MSOP	1.77	1.32	.97
LM4891MMTR-ND	1W Audio Power Amp with Shutdown Mode	8-MSOP		729.60/1,000	
LM4892IBPCT-ND	1W Audio Power Amp with Headphone Sense	8-microSMD	2.06	1.53	1.14
LM4892IBPTR-ND	1W Audio Power Amp with Headphone Sense	8-microSMD		224.44/250	
LM4892LDCT-ND	1W Audio Power Amp with Headphone Sense	10-LLP	2.06	1.53	1.14
LM4892LDTR-ND	1W Audio Power Amp with Headphone Sense	10-LLP		851.20/1,000	
LM4892M-ND	1W Audio Power Amp with Headphone Sense	8-SOIC	1.77	1.32	.97
LM4892MMCT-ND	1W Audio Power Amp with Headphone Sense	8-MSOP	1.77	1.32	.97
LM4892MMTR-ND	1W Audio Power Amp with Headphone Sense	8-MSOP		729.60/1,000	
LM4893ITLCT-ND	1.1W Audio Power Amp*	9-microSMD	1.80	1.32	.96
LM4893ITLTR-ND	1.1W Audio Power Amp*	9-microSMD		180.00/250	
LM4893MA-ND	1.1W Audio Power Amp*	8-SOIC	1.80	1.32	.96
LM4893MMCT-ND	1.1W Audio Power Amp*	10-MSOP	1.80	1.32	.96
LM4893MMTR-ND	1.1W Audio Power Amp*	10-MSOP		624.00/1,000	
LM4894IBPCT-ND	1W Fully Diff. Audio Power Amp with Shutdown	9-microSMD	2.11	1.57	1.16
LM4894IBPTR-ND	1W Fully Diff. Audio Power Amp with Shutdown	9-microSMD		229.50/250	
LM4894ITLCT-ND	1W Fully Diff. Audio Power Amp with Shutdown	9-microSMD	2.11	1.57	1.16
LM4894ITLTR-ND	1W Fully Diff. Audio Power Amp with Shutdown	9-microSMD		229.50/250	
LM4894ITPCT-ND	1W Fully Diff. Audio Power Amp with Shutdown	9-microSMD	2.11	1.57	1.16
LM4894ITPTR-ND	1W Fully Diff. Audio Power Amp with Shutdown	9-microSMD		229.50/250	
LM4894LDCT-ND	1W Fully Diff. Audio Power Amp with Shutdown	10-LLP	2.11	1.57	1.16
LM4894LDTR-ND	1W Fully Diff. Audio Power Amp with Shutdown	10-LLP		870.40/1,000	
LM4894MMCT-ND	1W Fully Diff. Audio Power Amp with Shutdown	10-MSOP	2.11	1.57	1.16
LM4894MMTR-ND	1W Fully Diff. Audio Power Amp with Shutdown	10-MSOP		870.40/1,000	
LM4895IBP-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	9-microSMD	2.45	1.82	1.35
LM4895ITPCT-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	9-microSMD	2.45	1.82	1.35
LM4895ITPTR-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	9-microSMD		266.29/250	
LM4895LDCT-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	10-LLP	2.45	1.82	1.35
LM4895LDTR-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	10-LLP		1009.92/1,000	
LM4895MMCT-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	10-MSOP	2.45	1.82	1.35
LM4895MMTR-ND	1W Fully Diff. Audio Power Amp with Fixed 6dB Gain	10-MSOP		1009.92/1,000	
LM4897MMCT-ND	1.1W Audio Power Amp	10-MSOP	1.80	1.32	.96
LM4897MMTR-ND	1.1W Audio Power Amp	10-MSOP		624.00/1,000	
LM4898ITL-ND	1W Fully Differential Audio Power Amp	9-microSMD	1.61	1.18	.86
LM4898LDCT-ND	1W Fully Differential Audio Power Amp	10-LLP	1.61	1.18	.86
LM4898LDTR-ND	1W Fully Differential Audio Power Amp	10-LLP		556.40/1,000	
LM4898MMCT-ND	1W Fully Differential Audio Power Amp	10-MSOP	1.61	1.18	.86
LM4898MMTR-ND	1W Fully Differential Audio Power Amp	10-MSOP		556.40/1,000	
LM4899ITL-ND	1W Fully Differential Audio Power Amp	9-microSMD	1.78	1.31	.95
LM4899LDCT-ND	1W Fully Differential Audio Power Amp	10-LLP	1.78	1.31	.95
LM4899LDTR-ND	1W Fully Differential Audio Power Amp	10-LLP		617.50/1,000	
LM4899MMCT-ND	1W Fully Differential Audio Power Amp	10-MSOP	1.78	1.31	.95
LM4899MMTR-ND	1W Fully Differential Audio Power Amp	10-MSOP		617.50/1,000	
LM4900LDCT-ND	3.3V Audio Amp with Shutdown	8-LLP	1.43	1.05	.76
LM4900LDTR-ND	3.3V Audio Amp with Shutdown	8-LLP		494.00/1,000	
LM4900M-ND	3.3V Audio Amp with Shutdown	8-SOIC	1.43	1.05	.76
LM4900MMCT-ND	265mW at 3.3V Supply Audio Power Amp w/Shutdown	8-MSOP	1.43	1.05	.76
LM4900MMTR-ND	265mW at 3.3V Supply Audio Power Amp w/Shutdown	8-MSOP		494.00/1,000	
LM4901LDCT-ND	1.6W Audio Power Amp with Selectable Shutdown Logic Level	10-LLP	1.77	1.32	.97
LM4901LDTR-ND	1.6W Audio Power Amp with Selectable Shutdown Logic Level	10-LLP		729.60/1,000	
LM4901MMCT-ND	1.6W Audio Power Amp with Selectable Shutdown Logic Level	10-MSOP	1.77	1.32	.97
LM4901MMTR-ND	1.6W Audio Power Amp with Selectable Shutdown Logic Level	10-MSOP		729.60/1,000	
LM4902LDCT-ND	3.3V Supply Audio Power Amp with Shutdown	8-LLP	1.43	1.05	.76
LM4902LDTR-ND	3.3V Supply Audio Power Amp with Shutdown	8-LLP		494.00/1,000	
LM4902MMCT-ND	3.3V Supply Audio Power Amp with Shutdown	8-MSOP	1.43	1.05	.76
LM4902MMTR-ND	3.3V Supply Audio Power Amp with Shutdown	8-MSOP		494.00/1,000	
LM4903MMCT-ND	1W Audio Power Amp*	8-MSOP	1.77	1.32	.97
LM4903MMTR-ND	1W Audio Power Amp*	8-MSOP		729.60/1,000	
LM4904ITLCT-ND	1W Audio Power Amp*	8-microSMD	1.77	1.32	.97
LM4904ITLTR-ND	1W Audio Power Amp*	8-microSMD		192.38/250	
LM4905LDCT-ND	1W Audio Power Amp	8-LLP	1.62	1.21	.89
LM4905LDTR-ND	1W Audio Power Amp	8-LLP		669.44/1,000	
LM4905LQCT-ND	1W Audio Power Amp	8-LLP	1.62	1.21	.89
LM4905LQTR-ND	1W Audio Power Amp	8-LLP		669.44/1,000	
LM4905MMCT-ND	1W Audio Power Amp	8-MSOP	1.62	1.21	.89
LM4905MMTR-ND	1W Audio Power Amp	8-MSOP		669.44/1,000	
LM4906LDCT-ND	1W Audio Amp with Selectable Gain	10-LLP	1.80	1.32	.96
LM4906LDTR-ND	1W Audio Amp with Selectable Gain	10-LLP		624.00/1,000	
LM4906MMCT-ND	1W Audio Amp with Selectable Gain	8-MSOP	1.80	1.32	.96
LM4906MMTR-ND	1W Audio Amp with Selectable Gain	8-MSOP		624.00/1,000	
LM4910LQCT-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-LLP	1.43	1.05	.76
LM4910LQTR-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-LLP		494.00/1,000	
LM4910MA-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-SOIC	1.43	1.05	.76
LM4910MMCT-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-MSOP	1.43	1.05	.76
LM4910MMTR-ND	Output Capacitor-less Stereo 35mW Headphone Amp	8-MSOP		494.00/1,000	
LM4911LDCT-ND	Stereo 40mW Low Noise Headphone Amp with Selectable Capacitive Coupled Output	10-LLP	1.78	1.31	.95
LM4911LDTR-ND	Stereo 40mW Low Noise Headphone Amp with Selectable Capacitive Coupled Output	10-LLP		617.50/1,000	
LM4911MMCT-ND	Stereo 40mW Low Noise Headphone Amp with Selectable Capacitive Coupled Output	10-MSOP	1.78	1.31	.95
LM4911MMTR-ND	Stereo 40mW Low Noise Headphone Amp with Selectable Capacitive Coupled Output	10-MSOP		617.50/1,000	
LM4912MMCT-ND	Stereo 40mW Low Noise Headphone Amp	10-MSOP	1.77	1.32	.97
LM4912MMTR-ND	Stereo 40mW Low Noise Headphone Amp	10-MSOP		729.60/1,000	
LM4913MHCT-ND	2W Monaural, 90mW Stereo Headphone Audio Amp*	10-TSSOP	2.36	1.75	1.30
LM4913MHTR-ND	2W Monaural, 90mW Stereo Headphone Audio Amp*	10-TSSOP		972.80/1,000	
LM4916LDCT-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Headphone Audio Amp*	10-LLP	1.80	1.32	.96
LM4916LDTR-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Headphone Audio Amp*	10-LLP		624.00/1,000	
LM4916MMCT-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Headphone Audio Amp*	10-MSOP	1.80	1.32	.96
LM4916MMTR-ND	1.5V, Mono 85mW BTL Output, 14mW Stereo Headphone Audio Amp*	10-MSOP		624.00/1,000	
LM4921ITLCT-ND	Low Voltage I^{2}S 16-Bit Stereo DAC	20-microSMD	2.80	2.08	1.54
LM4921ITLTR-ND	Low Voltage I^{2}S 16-Bit Stereo DAC	20-microSMD		304.76/250	
LM4923LQCT-ND	1.1W Fully Differential Audio Power Amp	8-LLP	1.61	1.18	.86
LM4923LQTR-ND	1.1W Fully Differential Audio Power Amp	8-LLP		556.40/1,000	
LM4924MMCT-ND	Output Capacitor-Less Stereo Headphone Amp	10-MSOP	2.89	2.15	1.59
LM4924MMTR-ND	Output Capacitor-Less Stereo Headphone Amp	10-MSOP		1191.68/1,000	
LM4924SDCT-ND	Output Capacitor-Less Stereo Headphone Amp	10-LLP	2.89	2.15	1.59
LM4924SDTR-ND	Output Capacitor-Less Stereo Headphone Amp	10-LLP		1191.68/1,000	
LM4925MMCT-ND	2 Cell, Single Ended Output, 40mW Stereo Headphone Audio Amp	10-MSOP	2.89	2.15	1.59
LM4925MMTR-ND	2 Cell, Single Ended Output, 40mW Stereo Headphone Audio Amp	10-MSOP		1191.68/1,000	
LM4925SDCT-ND	2 Cell, Single Ended Output, 40mW Stereo Headphone Audio Amp	10-LLP	2.89	2.15	1.59
LM4925SDTR-ND	2 Cell, Single Ended Output, 40mW Stereo Headphone Audio Amp	10-LLP		1191.68/1,000	
LM4927SDCT-ND	Boomer® 2.5W Fully Differential Audio Power Amp ***NEW!***	8-LLP	1.94	1.45	1.07
LM4927SDTR-ND	Boomer® 2.5W Fully Differential Audio Power Amp ***NEW!***	8-LLP		802.56/1,000	
LM4928SDCT-ND	Boomer® 1.2W Stereo Fully Diff. Audio Amp ***NEW!***	14-LLP	2.73	2.08	1.59
LM4928SDTR-ND	Boomer® 1.2W Stereo Fully Diff. Audio Amp ***NEW!***	14-LLP		1373.40/1,000	
LM4929MMCT-ND	Stereo 40mW Low Noise Headphone Amp	10-MSOP	2.06	1.53	1.14
LM4929MMTR-ND	Stereo 40mW Low Noise Headphone Amp	10-MSOP		851.20/1,000	
LM4930ITLCT-ND	Audio Subsystem with Stereo Headphone and Mono Speaker Amp	36-microSMD	7.88	6.23	4.99
LM4930ITLTR-ND	Audio Subsystem with Stereo Headphone and Mono Speaker Amp	36-microSMD		1190.63/250	

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LM4930LQCT-ND	Audio Subsystem with Stereo Headphone and Mono Speaker Amp	44-LLP	7.88	6.23	4.99
LM4930LQTR-ND	Audio Subsystem with Stereo Headphone and Mono Speaker Amp	44-LLP		1190.63/250	
LM4936MH-ND	Boomer® Stereo 2W Audio Power Amp with Volume Control and Selectable Control Interface*	28-TSSOP	4.40	3.35	2.56
LM4938MH-ND	Stereo 2W Audio Power Amp	28-TSSOP	2.50	1.86	1.38
LM4940TS-ND	Stereo 6W Audio Power Amp*	TO-263-9	2.50	1.90	1.45
LM4950TA-ND	7.5W Mono BTL or 3.1W Stereo Audio Power Amp	TO-220-5	2.63	2.00	1.53
LM4950TS-ND	7.5W Mono BTL or 3.1W Stereo Audio Power Amp	TO-263-5	2.63	2.00	1.53
LM4951SDCT-ND	Wide Voltage Range 1.8W Audio Amp	10-LLP	2.73	2.08	1.59
LM4951SDTR-ND	Wide Voltage Range 1.8W Audio Amp	10-LLP		1373.40/1,000	
LM4960SQCT-ND	Piezoelectric Speaker Driver	28-LLP	5.95	4.53	3.46
LM4960SQTR-ND	Piezoelectric Speaker Driver	28-LLP		2998.80/1,000	
LM4961LQCT-ND	Ceramic Speaker Driver	28-LLP	5.00	3.80	2.90
LM4961LQTR-ND	Ceramic Speaker Driver	28-LLP		2520.00/1,000	
LM4970SDCT-ND	Audio Sync. Color LED Driver	14-LLP	2.65	1.97	1.46
LM4970SDTR-ND	Audio Sync. Color LED Driver	14-LLP		1094.40/1,000	
LM4980SDCT-ND	2 Cell Battery, 1mA, 42mW Per Channel High Fidelity Stereo Headphone Audio Amp ***NEW!***	10-LLP	5.95	4.53	3.46
LM4980SDTR-ND	2 Cell Battery, 1mA, 42mW Per Channel High Fidelity Stereo Headphone Audio Amp ***NEW!***	10-LLP		2998.80/1,000	
LM4990ITLCT-ND	2W Audio Power Amp*	9-microSMD	1.61	1.19	.86
LM4990ITLTR-ND	2W Audio Power Amp*	9-microSMD		161.25/250	
LM4990LDCT-ND	2W Audio Power Amp ***NEW!***	10-LLP	1.73	1.27	.92
LM4990LDTR-ND	2W Audio Power Amp ***NEW!***	10-LLP		598.00/1,000	
LM4990MHCT-ND	2W Audio Power Amp*	10-TSSOP	1.95	1.45	1.08
LM4990MHTR-ND	2W Audio Power Amp*	10-TSSOP		806.40/1,000	
LM4990MMCT-ND	2W Audio Power Amp ***NEW!***	8-MSOP	1.61	1.19	.86
LM4990MMTR-ND	2W Audio Power Amp ***NEW!***	8-MSOP		559.00/1,000	
LM4992SDCT-ND	420mW Stereo Cell Phone Audio Amp	14-LLP	2.06	1.53	1.14
LM4992SDTR-ND	420mW Stereo Cell Phone Audio Amp	14-LLP		224.44/250	
LM5000-3MTC-ND	High Voltage Switch Mode Regulator	16-TSSOP	4.75	3.61	2.76
LM5000EVAL-ND	Evaluation Board for LM5000	—	57.45	—	—
LM5000SD-3CT-ND	High Voltage Switch Mode Regulator	16-LLP	4.75	3.61	2.76
LM5000SD-3TR-ND	High Voltage Switch Mode Regulator	16-LLP		2394.00/1,000	
LM5000SD-6CT-ND	High Voltage Switch Mode Regulator	16-LLP	4.75	3.61	2.76
LM5000SD-6TR-ND	High Voltage Switch Mode Regulator	16-LLP		2394.00/1,000	
LM5005MH-ND	High Voltage 2.5A Buck Regulator ***NEW!***	20-TSSOP	6.49	5.13	4.11
LM5007EVAL-ND	Evaluation Board for LM5007	—	38.25	—	—
LM5007MMCT-ND	80V Step-Down Switching Regulator	8-MSOP	4.05	3.08	2.35
LM5007MMTR-ND	80V Step-Down Switching Regulator	8-MSOP		2041.20/1,000	
LM5007SDCT-ND	80V Step-Down Switching Regulator	8-LLP	4.05	3.08	2.35
LM5007SDTR-ND	80V Step-Down Switching Regulator	8-LLP		2041.20/1,000	
LM5007SDEVAL-ND	Evaluation Board for LM5007SD	—	37.95	—	—
LM5008EVAL-ND	Evaluation Board for LM5008	—	38.25	—	—
LM5008MMCT-ND	100V Step-Down Switching Regulator	8-MSOP	4.05	3.08	2.35
LM5008MMTR-ND	100V Step-Down Switching Regulator	8-MSOP		2041.20/1,000	
LM5008SDCT-ND	100V Step-Down Switching Regulator	8-LLP	4.05	3.08	2.35
LM5008SDTR-ND	100V Step-Down Switching Regulator	8-LLP		2041.20/1,000	
LM5009MMCT-ND	100V, 150mA Step-Down Switching Regulator ***NEW!***	8-MSOP	3.09	2.30	1.70
LM5009MMTR-ND	100V, 150mA Step-Down Switching Regulator ***NEW!***	8-MSOP		1277.44/1,000	
LM5010AMH-ND	75V, 1A Step-Down Switching Regulator ***NEW!***	14-TSSOP	5.00	3.80	2.90
LM5010ASDCT-ND	75V, 1A Step-Down Switching Regulator ***NEW!***	10-LLP	5.00	3.80	2.90
LM5010ASDTR-ND	75V, 1A Step-Down Switching Regulator ***NEW!***	10-LLP		2520.00/1,000	
LM5010MH-ND	75V, 1A Step-Down Switching Regulator	14-TSSOP	4.75	3.61	2.76
LM5010SDCT-ND	75V, 1A Step-Down Switching Regulator	10-LLP	4.75	3.61	2.76
LM5010SDTR-ND	75V, 1A Step-Down Switching Regulator	10-LLP		2394.00/1,000	
LM5020EVAL-ND	Evaluation Board for LM5020	—	76.50	—	—
LM5020MM-1CT-ND	100V Current Mode PWM Controller	10-MSOP	2.91	2.17	1.60
LM5020MM-1TR-ND	100V Current Mode PWM Controller	10-MSOP		1203.20/1,000	
LM5020MM-2CT-ND	100V Current Mode PWM Controller	10-MSOP	2.91	2.17	1.60
LM5020MM-2TR-ND	100V Current Mode PWM Controller	10-MSOP		1203.20/1,000	
LM5020SD-1CT-ND	100V Current Mode PWM Controller	10-LLP	2.91	2.17	1.60
LM5020SD-1TR-ND	100V Current Mode PWM Controller	10-LLP		1203.20/1,000	
LM5020SD-2CT-ND	100V Current Mode PWM Controller	10-LLP	2.91	2.17	1.60
LM5020SD-2TR-ND	100V Current Mode PWM Controller	10-LLP		1203.20/1,000	
LM5021MM-1CT-ND	AC/DC Current Mode PWM Controller ***NEW!***	8-MSOP	1.89	1.41	1.04
LM5021MM-1TR-ND	AC/DC Current Mode PWM Controller ***NEW!***	8-MSOP		780.80/1,000	
LM5021MM-2CT-ND	AC/DC Current Mode PWM Controller ***NEW!***	8-MSOP	1.89	1.41	1.04
LM5021MM-2TR-ND	AC/DC Current Mode PWM Controller ***NEW!***	8-MSOP		780.80/1,000	
LM5021NA-1-ND	AC/DC Current Mode PWM Controller*	8-MDip	2.51	1.87	1.38
LM5021NA-2-ND	AC/DC Current Mode PWM Controller*	8-MDip	2.51	1.87	1.38
LM5025AMTC-ND	Active Clamp Voltage Mode PWM Controller	16-TSSOP	3.10	2.36	1.80
LM5025ASDCT-ND	Active Clamp Voltage Mode PWM Controller	16-LLP	3.10	2.36	1.80
LM5025ASDTR-ND	Active Clamp Voltage Mode PWM Controller	16-LLP		1562.40/1,000	
LM5025BMTC-ND	Active Clamp Voltage Mode PWM Controller*	16-TSSOP	3.10	2.36	1.80
LM5025EVAL-ND	Evaluation Board for LM5025	—	114.75	—	—
LM5025MTC-ND	Active Clamp Voltage Mode PWM Controller	16-TSSOP	3.10	2.36	1.80
LM5025SDCT-ND	Active Clamp Voltage Mode PWM Controller	16-LLP	3.10	2.36	1.80
LM5025SDTR-ND	Active Clamp Voltage Mode PWM Controller	16-LLP		1562.40/1,000	
LM5026MT-ND	Active Clamp Current Mode PWM Controller ***NEW!***	16-TSSOP	2.63	2.00	1.53
LM5030EVAL-ND	Evaluation Board for LM5030	—	133.95	—	—
LM5030MMCT-ND	100V Push-Pull PWM Controller	10-MSOP	2.85	2.17	1.66
LM5030MMTR-ND	100V Push-Pull PWM Controller	10-MSOP		1436.40/1,000	
LM5030SDCT-ND	100V Push-Pull PWM Controller	10-LLP	2.73	2.08	1.59
LM5030SDTR-ND	100V Push-Pull PWM Controller	10-LLP		1373.40/1,000	
LM5032MTC-ND	High Voltage Dual Interleaved Current Mode Controller	16-TSSOP	3.68	2.80	2.14
LM5033MMCT-ND	100V Push-Pull Voltage Mode PWM Controller ***NEW!***	10-MSOP	2.63	2.00	1.53
LM5033MMTR-ND	100V Push-Pull Voltage Mode PWM Controller ***NEW!***	10-MSOP		1323.00/1,000	
LM5033SDCT-ND	100V Push-Pull Voltage Mode PWM Controller	10-LLP	2.63	2.00	1.53
LM5033SDTR-ND	100V Push-Pull Voltage Mode PWM Controller	10-LLP		1323.00/1,000	
LM5034MTC-ND	High Voltage Dual Interleaved Current Mode Controller	20-TSSOP	4.53	3.44	2.63
LM5035MH-ND	PWM Controller with Integrated Half-Bridge and SyncFET Drivers ***NEW!***	20-TSSOP	4.53	3.44	2.63
LM5041AMTC-ND	Cascaded PWM Controller	16-TSSOP	5.10	3.88	2.96
LM5041ASDCT-ND	Cascaded PWM Controller	16-LLP	5.10	3.88	2.96
LM5041ASDTR-ND	Cascaded PWM Controller	16-LLP		2570.40/1,000	
LM5041MTC-ND	Cascaded PWM Controller	16-TSSOP	5.10	3.88	2.96
LM5041SDCT-ND	Cascaded PWM Controller	16-LLP	5.10	3.88	2.96
LM5041SDTR-ND	Cascaded PWM Controller	16-LLP		2570.40/1,000	
LM5068EVAL-ND	Evaluation Board for LM5068	—	66.90	—	—
LM5068MM-1CT-ND	Negative Voltage Hot Swap Controller	8-MSOP	3.20	2.44	1.86
LM5068MM-1TR-ND	Negative Voltage Hot Swap Controller	8-MSOP		1612.80/1,000	
LM5068MM-2CT-ND	Negative Voltage Hot Swap Controller	8-MSOP	3.20	2.44	1.86
LM5068MM-2TR-ND	Negative Voltage Hot Swap Controller	8-MSOP		1612.80/1,000	
LM5068MM-3CT-ND	Negative Voltage Hot Swap Controller	8-MSOP	3.20	2.44	1.86
LM5068MM-3TR-ND	Negative Voltage Hot Swap Controller	8-MSOP		1612.80/1,000	
LM5068MM-4CT-ND	Negative Voltage Hot Swap Controller	8-MSOP	3.20	2.44	1.86
LM5068MM-4TR-ND	Negative Voltage Hot Swap Controller	8-MSOP		1612.80/1,000	
LM5070MTC-50-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, Slope	16-TSSOP	3.45	2.63	2.01
LM5070MTC-80-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, Slope	16-TSSOP	3.45	2.63	2.01
LM5070SD-50CT-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, No Slope	16-LLP	3.45	2.63	2.01
LM5070SD-50TR-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, No Slope	16-LLP		1738.80/1,000	
LM5070SD-80CT-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, Slope	16-LLP	3.45	2.63	2.01
LM5070SD-80TR-ND	Integrated Power Over Ethernet PD Interface and PWM Controller, Slope	16-LLP		1738.80/1,000	
LM5071MT-50-ND	Power Over Ethernet PD Controller ***NEW!***	16-TSSOP	3.45	2.63	2.01
LM5071MT-80-ND	Power Over Ethernet PD Controller ***NEW!***	16-TSSOP	3.45	2.63	2.01
LM5080MMCT-ND	Modular Current Sharing Controller ***NEW!***	8-MSOP	1.77	1.32	.97
LM5080MMTR-ND	Modular Current Sharing Controller ***NEW!***	8-MSOP		729.60/1,000	
LM5100AM-ND	High Voltage, High Side and Low Side Gate Driver	8-SOIC	3.20	2.44	1.86
LM5100ASDCT-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	3.20	2.44	1.86
LM5100ASDTR-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP		1612.80/1,000	
LM5100M-ND	High Voltage, High Side and Low Side Gate Driver	8-SOIC	2.85	2.17	1.66
LM5100SDCT-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	2.85	2.17	1.66
LM5100SDTR-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP		1436.40/1,000	
LM5101AM-ND	High Voltage, High Side and Low Side Gate Driver	8-SOIC	3.20	2.44	1.86
LM5101ASDCT-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	3.20	2.44	1.86
LM5101ASDTR-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP		1612.80/1,000	
LM5101M-ND	High Voltage, High Side and Low Side Gate Driver	8-SOIC	2.85	2.17	1.66
LM5101SDCT-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP	2.85	2.17	1.66
LM5101SDTR-ND	High Voltage, High Side and Low Side Gate Driver	10-LLP		1436.40/1,000	
LM5102MMCT-ND	High Voltage Half-Bridge Gate Driver	10-MSOP	3.20	2.44	1.86
LM5102MMTR-ND	High Voltage Half-Bridge Gate Driver	10-MSOP		1612.80/1,000	
LM5102SDCT-ND	High Voltage Half-Bridge Gate Driver	10-LLP	3.20	2.44	1.86
LM5102SDTR-ND	High Voltage Half-Bridge Gate Driver	10-LLP		1612.80/1,000	
LM5104M-ND	High Voltage Half-Bridge Gate Driver	8-SOIC	3.20	2.44	1.86
LM5104SDCT-ND	High Voltage Half-Bridge Gate Driver	10-LLP	3.20	2.44	1.86
LM5104SDTR-ND	High Voltage Half-Bridge Gate Driver	10-LLP		1612.80/1,000	
LM5105SDCT-ND	100V Half-Bridge Gate Driver	10-LLP	2.95	2.19	1.62
LM5105SDTR-ND	100V Half-Bridge Gate Driver	10-LLP		1216.00/1,000	
LM5106MMCT-ND	100V Half-Bridge Gate Driver ***NEW!***	10-MSOP	2.08	1.55	1.14
LM5106MMTR-ND	100V Half-Bridge Gate Driver ***NEW!***	10-MSOP		857.60/1,000	
LM5107MA-ND	100V, 1.4A Peak Half-Bridge Gate Driver	8-SOIC	2.80	2.08	1.54
LM5107SDCT-ND	100V, 1.4A Peak Half-Bridge Gate Driver	8-LLP	2.65	1.97	1.46
LM5107SDTR-ND	100V, 1.4A Peak Half-Bridge Gate Driver	8-LLP		1094.40/1,000	
LM5109MA-ND	100V, 1A Peak Half-Bridge Gate Driver	8-SOIC	1.61	1.20	.89
LM5109SDCT-ND	100V, 1A Peak Half-Bridge Gate Driver	8-LLP	1.69	1.24	.90
LM5109SDTR-ND	100V, 1A Peak Half-Bridge Gate Driver	8-LLP		665.60/1,000	
LM5110-1M-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	8-SOIC	1.92	1.43	1.06
LM5110-1SDCT-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	1.92	1.43	1.06
LM5110-1SDTR-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP		791.04/1,000	
LM5110-2M-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	8-SOIC	1.92	1.43	1.06
LM5110-2SDCT-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	1.92	1.43	1.06
LM5110-2SDTR-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP		791.04/1,000	
LM5110-3M-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	8-SOIC	1.92	1.43	1.06
LM5110-3SDCT-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP	1.92	1.43	1.06
LM5110-3SDTR-ND	Dual 5A Compound Gate Driver with Neg. Output Voltage	10-LLP		791.04/1,000	
LM5111-1M-ND	Dual 5A Compound Gate Driver	8-SOIC	1.92	1.43	1.06
LM5111-2M-ND	Dual 5A Compound Gate Driver	8-SOIC	1.92	1.43	1.06
LM5111-3M-ND	Dual 5A Compound Gate Driver	8-SOIC	1.92	1.43	1.06
LM5112SDCT-ND	Tiny 7A MOSFET Gate Driver	6-LLP	1.78	1.31	.95
LM5112SDTR-ND	Tiny 7A MOSFET Gate Driver	6-LLP		617.50/1,000	
LM5115MTC-ND	Secondary Side Post Regulator Controller	16-TSSOP	5.48	4.17	3.18
LM5642MTC-ND	High Voltage, Dual Sync. Buck Converter	28-TSSOP	4.28	3.25	2.48
LM5642XMT-ND	High Voltage, Dual Sync. Buck Converter ***NEW!***	28-TSSOP	4.53	3.44	2.63
LM6132AIM-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	8-SOIC	3.40	2.59	1.98
LM6132BIM-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	8-SOIC	2.65	2.02	1.54
LM6132BIN-ND	Dual High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	8-Dip	2.65	2.02	1.54
LM6134AIM-ND	Quad High Speed/Low Power 7MHz, Rail-to-Rail Op Amp	14-SOIC	4.25	3.23	2.47
LM6134BIM-ND	Quad Low Power 10MHz, Rail-to-Rail, I/O, Op Amp	14-SOIC	3.35	2.55	1.95
LM6134BIMXTR-ND	Quad Low Power 10MHz, Rail-to-Rail, I/O, Op Amp	14-SOIC		4187.50/2,500	
LM6134BIN-ND	Quad High Speed/Low Power, 7MHz, Rail-to-Rail Op Amp	14-Dip	3.35	2.55	1.95
LM6142AIM-ND	Dual High Speed/Low Power Rail-to-Rail Op Amp	8-SOIC	5.25	3.99	3.05
LM6142BIM-ND	Dual High Speed/Low Power Rail-to-Rail Op Amp	8-SOIC	4.70	3.58	2.73
LM6144BIM-ND	Quad High Speed/Low Power 17MHz R-R Op Amp	14-SOIC	5.25	4.15	3.33
LM6152ACM-ND	Dual High Speed 75MHz, R-R, I/O, Op Amp, Vos = 4mV	8-SOIC	3.93	2.99	2.28
LM6152BCM-ND	Dual High Speed 75MHz, R-R, I/O, Op Amp, Vos = 4mV	8-SOIC	3.18	2.42	1.85
LM6154BCM-ND	Quad High Speed 75MHz, R-R, I/O, Op Amp, Vos = 7mV	14-SOIC	5.71	4.52	3.62
LM6171AIM-ND	Voltage Feedback Low Distortion, Low Power Op Amp	8-SOIC	3.30	2.51	1.92
LM6171BIM-ND	Voltage Feedback Low Distortion, Low Power Op Amp	8-SOIC	2.83	2.15	1.64
LM6171BIN-ND	Voltage Feedback Low Distortion, Low Power Op Amp	8-Dip	2.83	2.15	1.64
LM6172IM-ND	Dual HS LP, Low Distortion, Voltage Feedback Op Amp	8-SOIC	3.80	2.89	2.21
LM6172IMXCT-ND	Dual HS LP, Low Distortion, Voltage Feedback Op Amp	8-SOIC	3.80	2.89	2.21
LM6172IMXTR-ND	Dual HS LP, Low Distortion, Voltage Feedback Op Amp	8-SOIC		4750.00/2,500	
LM6172IN-ND	Dual HS LP, Low Distortion, Voltage Feedback Op Amp	8-Dip	3.80	2.89	2.21
LM6181IM-8-ND	100mA, 100MHz Current Feedback Amp	8-SOIC	2.65	2.02	1.54
LM6181IN-ND	Current Feedback Amp, 100MHz	8-Dip	2.65	2.02	1.54
LM6511IM-ND	180nS, 3V, Comparator	8-SOIC	2.65	2.02	1.54
LM6588MA-ND	TFT-LCD Quad, 16V RRIO High Output Current Op Amp	14-SOIC	3.04	2.26	1.67
LM6588MT-ND	TFT-LCD Quad, 16V RRIO High Output Current Op Amp	14-TSSOP	3.04	2.26	1.67
LM7121IM-ND	235MHz Tiny Low Power Voltage Feedback Amp	8-SOIC	3.01	2.24	1.65
LM7121IM5CT-ND	235MHz Tiny Low Power Voltage Feedback Amp	SOT-23-5	3.01	2.24	1.65
LM7121IM5TR-ND	235MHz Tiny Low Power Voltage Feedback Amp	SOT-23-5		1241.60/1,000	
LM7171AIM-ND	Very High Speed High Out Voltage Feedback Amp, A Grade	8-SOIC	2.88	2.19	1.67
LM7171AIN-ND	Very High Speed High Out Voltage Feedback Amp, A Grade	8-Dip	2.88	2.19	1.67
LM7171BIM-ND	Very High Speed High Out Voltage Feedback Amp	8-SOIC	2.53	1.92	1.47

* ***RoHS Compliant***

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LM7171BIMXTR-ND	Very High Speed High Out Voltage Feedback Amp	8-SOIC	3156.25/2,500		
LM7171BIN-ND	Very High Speed High Out Voltage Feedback Amp	8-Dip	2.53	1.92	1.47
LM7301IM-ND	Low Power, 4MHz GBW, R/R, I/O Op Amp in TinyPak	8-SOIC	2.11	1.57	1.16
LM7301IM5CT-ND	Low Power, 4MHz GBW, R/R, I/O Op Amp	SOT-23-5	2.11	1.57	1.16
LM7301IM5TR-ND	Low Power, 4MHz GBW Rail-to-Rail, I/O Op Amp	SOT-23-5	870.40/1,000		
LM7372ILDCT-ND	Dual High Speed, High Output Current Op Amp	8-LLP	4.70	3.58	2.73
LM7372ILDTR-ND	Dual High Speed, High Output Current Op Amp	8-LLP	2368.80/1,000		
LM7372IMA-ND	Dual High Speed, High Output Current Op Amp	16-SOIC	4.70	3.58	2.73
LM7372MR-ND	Dual High Speed, High Output Current Op Amp	8-PSOP	4.70	3.58	2.73
LM7808CT-ND	8V, 1.0A Positive Voltage Regulator	TO-220	1.63	1.20	.87
LM7905CTNS-ND	5V, 1.5A Negative Voltage Regulator	TO-220	1.82	1.34	.97
LM7912CT-ND	12V, 1.5A Negative Voltage Regulator	TO-220	1.82	1.34	.97
LM7915CT-ND	15V, 1.5A Negative Voltage Regulator	TO-220	1.82	1.34	.97
LM8207MT-ND	TFT 18 Gamma Buffer + VCOM Driver + Voltage Reference ***NEW!***	48-TSSOP	4.25	3.23	2.47
LM8261M5CT-ND	RRIO, High Op Current and Unlimited Cap Load Op Amp	SOT-23-5	2.67	1.98	1.47
LM8261M5TR-ND	RRIO, High Op Current and Unlimited Cap Load Op Amp	SOT-23-5	1100.80/1,000		
LM8262MMCT-ND	RRIO, High Op Current and Unlimited Cap Load Op Amp	8-MSOP	2.95	2.19	1.62
LM8262MMTR-ND	RRIO, High Op Current and Unlimited Cap Load Op Amp	8-MSOP	1216.00/1,000		
LM8272MMCT-ND	RRIO, High Output, Unlimited Cap Load Op Amp	8-MSOP	3.10	2.36	1.80
LM8272MMTR-ND	RRIO, High Output, Unlimited Cap Load Op Amp	8-MSOP	1562.40/1,000		
LM8300HLQ9CT-ND	Four Wire Resistive Touchscreen Controller	44-LLP	10.26	8.79	7.80
LM8300HLQ9TR-ND	Four Wire Resistive Touchscreen Controller	44-LLP	17799.75/2,500		
LM8364BALMF20CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	.95	.69	.50
LM8364BALMF20TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	296.80/1,000		
LM8364BALMF30CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	.95	.69	.50
LM8364BALMF30TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	296.80/1,000		
LM8364BALMF45CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	.95	.69	.50
LM8364BALMF45TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	296.80/1,000		
LM8365BALMF22CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	1.06	.77	.56
LM8365BALMF22TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	330.40/1,000		
LM8365BALMF27CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	1.06	.77	.56
LM8365BALMF27TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	330.40/1,000		
LM8365BALMF45CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	1.06	.77	.56
LM8365BALMF45TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	330.40/1,000		
LM8365BCLMF30CT-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	1.06	.77	.56
LM8365BCLMF30TR-ND	Micropower Undervoltage Sensing Circuit	SOT-23-5	330.40/1,000		
LM8500HLQ9CT-ND	Four Wire Resistive Touchscreen Controller	44-LLP	10.26	8.79	7.80
LM8500HLQ9TR-ND	Four Wire Resistive Touchscreen Controller	44-LLP	17799.75/2,500		
LM9022M-ND	Vacuum Fluorescent Display Filament Driver	8-SOIC	1.72	1.28	.95
LM9036M-3.3-ND	3.3V, 50mA Ultra Low Quiescent Current Volt. Regulator	8-SOIC	1.76	1.30	.94
LM9040M-ND	Dual Lambda Sensor Interface Amplifier	14-SOIC	5.85	4.45	3.40
LM9044V-ND	Lambda Sensor Interface Amplifier	20-PLCC	3.80	2.89	2.21
LM9061M-ND	MOSFET Driver with Loss Protection	8-SOIC	1.92	1.43	1.06
LM9070T-ND	LDO Voltage Regulator with Keep-Alive ON/OFF Control	TO-220-7	2.79	2.07	1.53
LM9071T-ND	LDO Voltage Regulator with Delayed Reset	TO-220-5	2.48	1.84	1.36
LM9076BMA-5.0-ND	150mA Ultra-Low Quiescent Current LDO Regulator	8-SOIC	2.62	1.95	1.44
LM9076S-5.0-ND	150mA Ultra-Low Quiescent Current LDO Regulator	TO-263	2.80	2.08	1.54
LM9822CCWM-ND	3-Channel, 42-Bit, Color Scanner Analog Front End	28-SOIC	8.93	7.06	5.66
LM9830VJD-ND	36-Bit, Color Document Scanner	100-TQFP	11.90	10.20	9.05
LM9833CCVJD-ND	48-Bit, Color 1200dpi USB Image Scanner	100-TQFP	12.65	10.85	9.62
LM13700N-ND	Dual Operational Transconductance Amp	16-Dip	1.44	1.06	.77
LM25007SDCT-ND	High Voltage, 0.5A Step-Down Switching Regulator ***NEW!***	8-LLP	3.09	2.30	1.70
LM25007SDTR-ND	High Voltage, 0.5A Step-Down Switching Regulator ***NEW!***	8-LLP	1277.44/1,000		
LM25010MH-ND	42V, 1.0A Step-Down Switching Regulator ***NEW!***	14-TSSOP	3.58	2.72	2.08
LM25010SDCT-ND	42V, 1.0A Step-Down Switching Regulator ***NEW!***	10-LLP	3.58	2.72	2.08
LM25010SDTR-ND	42V, 1.0A Step-Down Switching Regulator ***NEW!***	10-LLP	1801.80/1,000		
LM25115MT-ND	Secondary Side Post Regulator Controller ***NEW!***	16-TSSOP	4.40	3.35	2.56
LM27241MTC-ND	Sync. Buck Regulator Controller for Mobile Systems	20-TSSOP	4.15	3.16	2.41
LM27953TLCT-ND	White LED Driver	18-microSMD	2.85	2.17	1.66
LM27953TLTR-ND	White LED Driver	18-microSMD	379.05/250		
LM27961TLCT-ND	Dual Display White LED Driver	18-microSMD	3.58	2.72	2.08
LM27961TLTR-ND	Dual Display White LED Driver	18-microSMD	475.48/250		
LM27964SQ-ACT-ND	White LED Driver System with I2C Compatible ***NEW!***	24-LLP	4.43	3.37	2.57
LM27964SQ-ATR-ND	White LED Driver System with I2C Compatible ***NEW!***	24-LLP	2230.20/1,000		
LM27964SQ-ICT-ND	White LED Driver System with I2C Compatible ***NEW!***	24-LLP	4.43	3.37	2.57
LM27964SQ-ITR-ND	White LED Driver System with I2C Compatible ***NEW!***	24-LLP	2230.20/1,000		
LM34910SDCT-ND	40V, 1.25A, High Voltage Step-Down Switching Reg.	10-LLP	2.88	2.19	1.67
LM34910SDTR-ND	40V, 1.25A, High Voltage Step-Down Switching Reg.	10-LLP	1449.00/1,000		
LM94021BIMGCT-ND	1.5V, Multi-Gain Analog Temperature Sensor	SC70-5	1.43	1.05	.76
LM94021BIMGTR-ND	1.5V, Multi-Gain Analog Temperature Sensor	SC70-5	494.00/1,000		
LM94022BIMGCT-ND	1.5V, Multi-Gain Analog Temperature Sensor*	SC70-5	1.43	1.05	.76
LM94022BIMGTR-ND	1.5V, Multi-Gain Analog Temperature Sensor*	SC70-5	494.00/1,000		
LM95071CIMFCT-ND	SPI/Microwire 13-Bit Plus Sign Temperature Sensor	SOT-23-5	2.06	1.53	1.14
LM95071CIMFTR-ND	SPI/Microwire 13-Bit Plus Sign Temperature Sensor	SOT-23-5	851.20/1,000		
LM95231CIMM-1CT-ND	Precision Dual Remote Diode Temp. Sensor ***NEW!***	8-MSOP	4.73	3.60	2.75
LM95231CIMM-1TR-ND	Precision Dual Remote Diode Temp. Sensor ***NEW!***	8-MSOP	2381.40/1,000		
LMC555CBPCT-ND	CMOS Timer	8-microSMD	1.14	.84	.61
LMC555CBPTR-ND	CMOS Timer	8-microSMD	114.38/250		
LMC555CM-ND	CMOS Timer	8-SOIC	.96	.70	.51
LMC555CMXCT-ND	CMOS Timer ***NEW!***	8-SOIC	.96	.70	.51
LMC555CMXTR-ND	CMOS Timer	8-SOIC	708.23/2,500		
LMC555CMMCT-ND	CMOS Timer, In Small Package	8-MSOP	1.37	1.01	.74
LMC555CMMTR-ND	CMOS Timer, In Small Package	8-MSOP	475.80/1,000		
LMC555CN-ND	CMOS Timer	8-Dip	1.21	.89	.65
LMC567CM-ND	CMOS Tone Decoder Phase-Lock-Loop	8-SOIC	1.89	1.41	1.04
LMC567CMXTR-ND	CMOS Tone Decoder Phase-Lock-Loop	8-SOIC	1906.25/2,500		
LMC567CN-ND	CMOS Tone Decoder Phase-Lock-Loop	8-Dip	1.89	1.41	1.04
LMC660AIM-ND	Quad CMOS Op Amp, Industrial Temperature	14-SOIC	2.26	1.68	1.25
LMC660AIMXTR-ND	Quad CMOS Op Amp, Industrial Temperature	14-SOIC	2281.25/2,500		
LMC660AIN-ND	Quad CMOS Op Amp, Industrial Temperature	14-Dip	2.36	1.75	1.30
LMC660CM-ND	Quad CMOS Op Amp	14-SOIC	1.86	1.38	1.02
LMC660CMXCT-ND	Quad CMOS Op Amp ***NEW!***	14-SOIC	1.86	1.38	1.02
LMC660CMXTR-ND	Quad CMOS Op Amp	14-SOIC	1875.00/2,500		
LMC660CN-ND	Quad CMOS Op Amp	14-Dip	1.98	1.48	1.09
LMC662AIM-ND	Dual CMOS Op Amp, Industrial Temperature	8-SOIC	2.11	1.57	1.16
LMC662AIMXTR-ND	Dual CMOS Op Amp, Industrial Temperature	8-SOIC	2125.00/2,500		
LMC662AIN-ND	Dual CMOS Op Amp	8-Dip	2.33	1.73	1.28
LMC662CM-ND	Dual CMOS Op Amp	8-SOIC	1.95	1.45	1.08
LMC662CMXTR-ND	Dual CMOS Op Amp	8-SOIC	1968.75/2,500		
LMC662CN-ND	Dual CMOS Op Amp	8-Dip	2.08	1.55	1.14
LMC6001AIN-ND	Ultra Ultra-Low Input Current Amp	8-Dip	14.07	12.06	10.70
LMC6001BIN-ND	Ultra Ultra-Low Input Current Amp	8-Dip	10.29	8.14	6.52

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMC6001CIN-ND	Ultra Ultra-Low Input Current Amp	8-Dip	3.28	2.49	1.90
LMC6024IM-ND	Micropower Quad CMOS Op Amp	14-SOIC	1.67	1.25	.92
LMC6032IM-ND	Dual CMOS Op Amp, Industrial Temperature	8-SOIC	1.18	.87	.63
LMC6032IN-ND	Dual CMOS Op Amp, Industrial Temperature	8-Dip	1.31	.96	.70
LMC6034IM-ND	Quad CMOS Op Amp	14-SOIC	1.82	1.34	.97
LMC6035IBPCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	1.61	1.19	.86
LMC6035IBPTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	161.25/250		
LMC6035IBPXCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	1.61	1.19	.86
LMC6035IBPXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	1644.75/3,000		
LMC6035IM-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-SOIC	1.61	1.19	.86
LMC6035IMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-SOIC	1370.63/2,500		
LMC6035IMMCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	2.11	1.57	1.16
LMC6035IMMTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	870.40/1,000		
LMC6035IMMXCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	2.11	1.57	1.16
LMC6035IMMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-MSOP	2975.00/3,500		
LMC6035ITLCT-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	1.76	1.30	.94
LMC6035ITLTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	8-microSMD	176.25/250		
LMC6036IM-ND	Low Power 2.7V, Single Supply CMOS Op Amp	14-SOIC	2.20	1.64	1.21
LMC6036IMXTR-ND	Low Power 2.7V, Single Supply CMOS Op Amp	14-SOIC	2218.75/2,500		
LMC6041AIM-ND	Single CMOS Micropower Op Amp	8-SOIC	2.51	1.87	1.38
LMC6041AIN-ND	Single CMOS Micropower Op Amp	8-Dip	2.42	1.80	1.33
LMC6041IM-ND	Single CMOS Micropower Op Amp	8-SOIC	2.08	1.55	1.15
LMC6041IN-ND	Single CMOS Micropower Op Amp	8-Dip	2.08	1.55	1.15
LMC6042AIM-ND	Dual CMOS Micropower Op Amp	8-SOIC	3.06	2.27	1.68
LMC6042AIN-ND	Dual CMOS Micropower Op Amp	8-Dip	2.53	1.92	1.47
LMC6042IM-ND	Dual CMOS Micropower Op Amp	8-SOIC	2.29	1.71	1.26
LMC6042IN-ND	Dual CMOS Micropower Op Amp	8-Dip	2.29	1.71	1.26
LMC6044AIM-ND	Quad CMOS Micropower Op Amp	14-SOIC	3.33	2.53	1.93
LMC6044AIN-ND	Quad CMOS Micropower Op Amp	14-Dip	2.89	2.15	1.59
LMC6044IM-ND	Quad CMOS Micropower Op Amp	14-SOIC	2.77	2.06	1.52
LMC6044IN-ND	Quad CMOS Micropower Op Amp	14-Dip	2.82	2.10	1.55
LMC6061AIM-ND	Precision Single CMOS Micropower Op Amp	8-SOIC	2.11	1.57	1.16
LMC6061IM-ND	Precision Single CMOS Micropower Op Amp	8-SOIC	1.84	1.35	.98
LMC6062AIM-ND	Precision Dual CMOS Micropower Op Amp	8-SOIC	3.43	2.61	1.99
LMC6062AIN-ND	Precision Dual CMOS Micropower Op Amp	8-Dip	3.25	2.47	1.89
LMC6062IM-ND	Precision Dual CMOS Micropower Op Amp	8-SOIC	3.01	2.24	1.65
LMC6062IN-ND	Precision Dual CMOS Micropower Op Amp	8-Dip	2.58	1.96	1.50
LMC6064AIM-ND	Precision Quad CMOS Micropower Op Amp	14-SOIC	5.43	4.13	3.15
LMC6064IM-ND	Precision Quad CMOS Micropower Op Amp	14-SOIC	4.00	3.04	2.32
LMC6064IN-ND	Precision Quad CMOS Micropower Op Amp	14-Dip	4.18	3.18	2.43
LMC6081AIM-ND	Precision Single CMOS Op Amp	8-SOIC	3.93	2.99	2.28
LMC6081AIN-ND	Precision Single CMOS Op Amp	8-Dip	4.23	3.22	2.46
LMC6081IM-ND	Precision Single CMOS Micropower Op Amp	8-SOIC	2.73	2.08	1.59
LMC6081IN-ND	Precision Single CMOS Op Amp	8-Dip	2.73	2.08	1.59
LMC6082AIM-ND	Precision Dual CMOS Op Amp	8-SOIC	5.20	3.96	3.02
LMC6082AIN-ND	Precision Dual CMOS Op Amp	8-Dip	5.20	3.96	3.02
LMC6082IM-ND	Precision Dual CMOS Op Amp	8-SOIC	2.93	2.23	1.70
LMC6082IN-ND	Precision Dual CMOS Op Amp	8-Dip	2.93	2.23	1.70
LMC6084AIM-ND	Precision Dual CMOS Micropower Op Amp	14-SOIC	6.70	5.30	4.25
LMC6442AIM-ND	Dual Micropower R/R, Output Single Supply Op Amp	8-SOIC	2.70	2.01	1.48
LMC6442IM-ND	Dual Micropower R/R, Output Single Supply Op Amp	8-SOIC	2.70	2.01	1.48
LMC6442IN-ND	Dual Micropower R/R, Output Single Supply Op Amp	8-Dip	2.70	2.01	1.48
LMC6462AIM-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-SOIC	3.03	2.30	1.76
LMC6462AIN-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-Dip	3.10	2.36	1.80
LMC6462BIM-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-SOIC	2.98	2.21	1.64
LMC6462BIN-ND	Dual CMOS Micropower, R/R, Input/Output Op Amp	8-Dip	2.58	1.96	1.50
LMC6464AIM-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-SOIC	4.80	3.65	2.79
LMC6464AIN-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-Dip	4.88	3.71	2.83
LMC6464BIM-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-SOIC	4.10	3.12	2.38
LMC6464BIN-ND	Quad CMOS Micropower, R/R, Input/Output Op Amp	14-Dip	4.28	3.25	2.48
LMC6482AIM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2.19	1.63	1.21
LMC6482AIN-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-Dip	2.29	1.71	1.26
LMC6482IM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	1.86	1.38	1.02
LMC6482IMMCT-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-MSOP	1.82	1.35	1.00
LMC6482IMMTR-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-MSOP	751.36/1,000		
LMC6482IN-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-Dip	1.82	1.35	1.00
LMC6484AIM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	3.28	2.49	1.90
LMC6484AIMXCT-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp ***NEW!***	14-SOIC	3.00	2.28	1.74
LMC6484AIMXTR-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	4093.75/2,500		
LMC6484AIN-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-Dip	3.28	2.49	1.90
LMC6484IM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	2.55	1.94	1.48
LMC6484IMXTR-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	3187.50/2,500		
LMC6484IN-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-Dip	2.68	2.04	1.56
LMC6492AEM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2.65	2.02	1.54
LMC6492BEM-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2.64	1.96	1.45
LMC6492BEMXCT-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp ***NEW!***	8-SOIC	2.64	1.96	1.45
LMC6492BEMXTR-ND	Dual CMOS Rail-to-Rail, Input/Output Op Amp	8-SOIC	2826.25/2,500		
LMC6494AEM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	6.13	4.66	3.56
LMC6494BEM-ND	Quad CMOS Rail-to-Rail, Input/Output Op Amp	14-SOIC	3.80	2.89	2.21
LMC6762AIM-ND	CMOS Micropower Rail-to-Rail Comparator	8-SOIC	2.85	2.17	1.66
LMC6762BIM-ND	CMOS Micropower Rail-to-Rail Comparator	8-SOIC	2.91	2.17	1.60
LMC6762BIMXTR-ND	CMOS Micropower Rail-to-Rail Comparator	8-SOIC	2937.50/2,500		
LMC6772AIM-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-SOIC	2.85	2.17	1.66
LMC6772AIMMCT-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-MSOP	2.85	2.17	1.66
LMC6772AIMMTR-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-MSOP	1436.40/1,000		
LMC6772AIN-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-Dip	2.85	2.17	1.66
LMC6772BIM-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-SOIC	2.91	2.17	1.60
LMC6772BIN-ND	Dual Micropower R/R Input CMOS Comp. w/Open Drain	8-Dip	2.91	2.17	1.60
LMC6953CM-ND	PCI Local Bus Power Supervisor	8-SOIC	3.15	2.40	1.83
LMC7101AIM5XCT-ND	Tiny Low Power Op Amp with R/R Input/Output	SOT-23-5	1.66	1.22	.89
LMC7101AIM5XTR-ND	Tiny Low Power Op Amp with R/R Input/Output	SOT-23-5	1690.65/3,000		
LMC7101BIM5NSCT-ND	Tiny Low Power Op Amp with R/R Input/Output	SOT-23-5	.99	.73	.53
LMC7101BIM5NSTR-ND	Tiny Low Power Op Amp with R/R Input/Output	SOT-23-5	343.20/1,000		
LMC7111BIM5XCT-ND	Tiny CMOS Op Amp with Rail-to-Rail, In/Out ***NEW!***	SOT-23-5	1.35	.99	.72
LMC7111BIM5XTR-ND	Tiny CMOS Op Amp with Rail-to-Rail, In/Out	SOT-23-5	1377.00/3,000		
LMC7211AIM-ND	Tiny CMOS Comparator with Rail-to-Rail Input	8-SOIC	1.58	1.18	.87
LMC7211AIM5CT-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5	1.58	1.18	1.18
LMC7211AIM5TR-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5	652.80/1,000		
LMC7211BIM-ND	Tiny CMOS Comparator with Rail-to-Rail Input	8-SOIC	1.50	1.10	.80
LMC7211BIM5CT-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5	1.50	1.10	.80

* ***RoHS Compliant***

(Continued)

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LINEAR SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMC7211BIM5TR-ND	Tiny CMOS Comparator with Rail-to-Rail Input	SOT-23-5	520.00/1,000		
LMC7215IM-ND	Micropower Rail-to-Rail CMOS Comparator with Open-Drain/Push-Pull Output	8-SOIC	1.73	1.27	.92
LMC7215IMXTR-ND	Micropower Rail-to-Rail CMOS Comparator with Open-Drain/Push-Pull Output	8-SOIC	1466.25/2,500		
LMC7215IM5CT-ND	Micropower Rail-to Rail CMOS Comparator with Push-Pull/Open-Drain Outputs	SOT-23-5	1.73	1.27	.92
LMC7215IM5TR-ND	Micropower Rail-to Rail CMOS Comparator with Push-Pull/Open-Drain Outputs	SOT-23-5	598.00/1,000		
LMC7221AIM-ND	Tiny CMOS Comparator with R/R Input/Open Drain	8-SOIC	1.86	1.38	1.02
LMC7221AIM5CT-ND	Tiny CMOS Comparator with R/R Input/Open Drain	SOT-23-5	1.86	1.38	1.02
LMC7221AIM5TR-ND	Tiny CMOS Comparator with R/R Input/Open Drain	SOT-23-5	768.00/1,000		
LMC7221BIM-ND	Tiny CMOS Comparator with R/R Input/Open Drain	8-SOIC	1.76	1.30	.94
LMC7221BIM5CT-ND	Tiny CMOS Comparator with R/R Input/Open Drain	SOT-23-5	1.76	1.30	.94
LMC7221BIM5TR-ND	Tiny CMOS Comparator with R/R Input/Open Drain	SOT-23-5	611.00/1,000		
LMC7225IM5CT-ND	Micropower CMOS Comparator with Rail-to-Rail, Open-Drain/Push-Pull Output	SOT-23-5	1.73	1.27	.92
LMC7225IM5TR-ND	Micropower CMOS Comparator with Rail-to-Rail, Open-Drain/Push-Pull Output	SOT-23-5	598.00/1,000		
LMC7660IM-ND	Switched Capacitor Voltage Converter	8-SOIC	1.31	.96	.70
LMC7660IMXCT-ND	Switched Capacitor Voltage Converter ***NEW!***	8-SOIC	1.31	.97	.70
LMC7660IMXTR-ND	Switched Capacitor Voltage Converter	8-SOIC	1112.44/2,500		
LMC7660IN-ND	Switched Capacitor Voltage Converter	8-Dip	1.31	.96	.70
LMC8101BPCT-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp	8-microSMD	1.54	1.13	.82
LMC8101BPTR-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp	8-microSMD	153.75/250		
LMC8101BPXTR-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp	8-microSMD	1568.25/3,000		
LMC8101MMCT-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp	8-microSMD	1.54	1.13	.82
LMC8101MMTR-ND	Rail-to-Rail, Input/Output, 2.7V, Op Amp	8-microSMD	533.00/1,000		
LMC8101TPCT-ND	Rail-to-Rail, Input/Output, 2.7V Op Amp	8-microSMD	1.54	1.13	.82
LMC8101TPTR-ND	Rail-to-Rail, Input/Output, 2.7V Op Amp	8-microSMD	153.75/250		
LMD18200T-ND	55V, 3A H Bridge	TO-220	11.69	10.02	8.89
LMD18201T-ND	55V, 3A H Bridge	TO-220	13.84	11.87	10.53
LMD18245T-ND	55V, 3A DMOS H Bridge Motor Driver	TO-220	13.04	11.18	9.91
LMD18400N-ND	60V, 3A DMOS Quad High Side Driver	20-Dip	9.75	8.36	7.41
LMF100CCN-ND	Dual Switched Capacitor Filter	20-Dip	6.09	4.82	3.86
LMF100CIWM-ND	High Performance Dual Switched Capacitor Filter	20-SOIC	5.15	3.92	2.99
LMH1251MT-ND	YPBPR to RGBHV Converter/2:1 Video Switch*	24-TSSOP	6.97	5.52	4.42
LMH6502MA-ND	Wideband, Low Power, Linear-in-dB Variable Gain Amp	14-SOIC	6.95	5.50	4.41
LMH6502MT-ND	Wideband, Low Power, Linear-in-dB Variable Gain Amp	14-TSSOP	6.95	5.50	4.41
LMH6503MA-ND	Wideband, Low Power, Linear Variable Gain Amp	14-SOIC	6.95	5.50	4.41
LMH6503MT-ND	Wideband, Low Power, Linear Variable Gain Amp	14-TSSOP	6.95	5.50	4.41
LMH6504MA-ND	Wideband, Low Power, Variable Gain Amp	8-SOIC	6.00	4.56	3.48
LMH6504MMCT-ND	Wideband, Low Power, Variable Gain Amp	8-MSOP	6.00	4.56	3.48
LMH6504MMTR-ND	Wideband, Low Power, Variable Gain Amp	8-MSOP	3024.00/1,000		
LMH6550MA-ND	Differential, High Speed Op Amp	8-SOIC	5.45	4.15	3.17
LMH6550MMCT-ND	Differential, High Speed Op Amp ***NEW!***	8-MSOP	5.45	4.15	3.17
LMH6550MMTR-ND	Differential, High Speed Op Amp ***NEW!***	8-MSOP	2746.80/1,000		
LMH6551MA-ND	Differential, High Speed Op Amp	8-SOIC	3.80	2.89	2.21
LMH6551MMCT-ND	Differential, High Speed Op Amp	8-MSOP	3.80	2.89	2.21
LMH6551MMTR-ND	Differential, High Speed Op Amp	8-MSOP	1915.20/1,000		
LMH6559MA-ND	High Speed, Closed Loop Buffer	8-SOIC	2.79	2.07	1.53
LMH6559MFCT-ND	High Speed, Closed Loop Buffer	SOT-23-5	2.79	2.07	1.53
LMH6559MFTR-ND	High Speed, Closed Loop Buffer	SOT-23-5	1152.00/1,000		
LMH6560MA-ND	Quad, High Speed, Closed Loop Buffer	14-SOIC	5.95	4.53	3.46
LMH6560MT-ND	Quad, High Speed, Closed Loop Buffer	14-TSSOP	5.95	4.53	3.46
LMH6570MA-ND	2:1 High Speed Video Mux	8-SOIC	5.10	3.88	2.96
LMH6572MQ-ND	Triple 2:1 High Speed Video Mux	16-SSOP	6.99	5.53	4.43
LMH6574MA-ND	4:1 High Speed Video Mux	14-SOIC	5.48	4.17	3.18
LMH6609MA-ND	900MHz Voltage Feedback Op Amp	8-SOIC	3.30	2.51	1.92
LMH6609MFCT-ND	900MHz Voltage Feedback Op Amp	SOT-23-5	3.30	2.51	1.92
LMH6609MFTR-ND	900MHz Voltage Feedback Op Amp	SOT-23-5	1663.20/1,000		
LMH6622MA-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-SOIC	4.40	3.35	2.56
LMH6622MMCT-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-MSOP	4.40	3.35	2.56
LMH6622MMTR-ND	Dual Wideband, Low Noise, 160MHz Op Amp	8-MSOP	2217.60/1,000		
LMH6624MA-ND	Single Wideband, Ultra Low Noise Op Amp	8-SOIC	3.98	3.03	2.31
LMH6624MFCT-ND	Single Wideband, Ultra Low Noise Op Amp	SOT-23-5	3.98	3.03	2.31
LMH6624MFTR-ND	Single Wideband, Ultra Low Noise Op Amp	SOT-23-5	2003.40/1,000		
LMH6626MA-ND	Dual Wideband, Ultra Low Noise Op Amp	8-SOIC	4.88	3.71	2.83
LMH6626MMCT-ND	Dual Wideband, Ultra Low Noise Op Amp	8-MSOP	4.88	3.71	2.83
LMH6626MMTR-ND	Dual Wideband, Ultra Low Noise Op Amp	8-MSOP	2457.00/1,000		
LMH6628MA-ND	Dual Wideband, Low Noise, Voltage Feedback Op Amp	8-SOIC	3.55	2.70	2.06
LMH6639MA-ND	190MHz Rail-to-Rail Output Amp with Disable	8-SOIC	2.08	1.55	1.14
LMH6639MFCT-ND	190MHz Rail-to-Rail Output Amp with Disable	SOT-23-6	2.08	1.55	1.14
LMH6639MFTR-ND	190MHz Rail-to-Rail Output Amp with Disable	SOT-23-6	857.60/1,000		
LMH6640MFCT-ND	TFT-LCD Single, 16V Rail-to-Rail Out High Op Amp	SOT-23-5	2.75	2.09	1.60
LMH6640MFTR-ND	TFT-LCD Single, 16V Rail-to-Rail Out High Op Amp	SOT-23-5	1386.00/1,000		
LMH6642MA-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp	8-SOIC	1.95	1.45	1.08
LMH6642MFCT-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp	SOT-23-5	1.95	1.45	1.08
LMH6642MFTR-ND	3V, LP, 130MHz, 75mA Single Supply, R/R Op Amp	SOT-23-5	806.40/1,000		
LMH6643MA-ND	3V, Low Power, 130MHz, Rail-to-Rail Output Amp	8-SOIC	2.08	1.55	1.14
LMH6643MMCT-ND	3V, Low Power, 130MHz, Rail-to-Rail Output Amp	8-MSOP	2.08	1.55	1.14
LMH6643MMTR-ND	3V, Low Power, 130MHz, Rail-to-Rail Output Amp	8-MSOP	857.60/1,000		
LMH6644MA-ND	3V, Low Power, 130MHz, 75mA R/R Output Amp	14-SOIC	3.10	2.36	1.80
LMH6644MT-ND	3V, Low Power, 130MHz, 75mA R/R Output Amp	14-TSSOP	3.10	2.36	1.80
LMH6645MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-SOIC	2.23	1.66	1.23
LMH6645MFCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	SOT-23-5	2.23	1.66	1.23
LMH6645MFTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	SOT-23-5	921.60/1,000		
LMH6646MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-SOIC	2.50	1.90	1.45
LMH6646MMCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-MSOP	2.50	1.90	1.45
LMH6646MMTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-MSOP	1260.00/1,000		
LMH6647MA-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	8-SOIC	2.51	1.87	1.38
LMH6647MFCT-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	SOT-23-6	2.51	1.87	1.38
LMH6647MFTR-ND	2.7V, Rail-to-Rail, In/Out Amp with Shutdown	SOT-23-6	1036.80/1,000		
LMH6654MA-ND	Single, Low Power, 250MHz, Low Noise Amp	8-SOIC	2.67	1.98	1.47
LMH6654MFCT-ND	Single, Low Power, 250MHz, Low Noise Amp	SOT-23-5	2.67	1.98	1.47
LMH6654MFTR-ND	Single, Low Power, 250MHz, Low Noise Amp	SOT-23-5	1100.80/1,000		
LMH6655MA-ND	Dual, Low Power, 250MHz, Low Noise Amp	8-SOIC	3.05	2.32	1.77
LMH6655MMCT-ND	Dual, Low Power, 250MHz, Low Noise Amp	8-MSOP	3.05	2.32	1.77
LMH6655MMTR-ND	Dual, Low Power, 250MHz, Low Noise Amp	8-MSOP	1537.20/1,000		
LMH6657MFCT-ND	270MHz, Single Supply Amp	SOT-23-5	2.23	1.66	1.23
LMH6657MFTR-ND	270MHz, Single Supply Amp	SOT-23-5	921.60/1,000		
LMH6657MGCT-ND	270MHz, Single Supply Amp	SC70-5	2.23	1.66	1.23
LMH6657MGTR-ND	270MHz, Single Supply Amp	SC70-5	921.60/1,000		
LMH6658MA-ND	270MHz, Dual, High Speed, Low Noise Op Amp	8-SOIC	2.91	2.17	1.60
LMH6658MMCT-ND	270MHz, Dual, High Speed, Low Noise Op Amp	8-MSOP	2.91	2.17	1.60
LMH6658MMTR-ND	270MHz, Dual, High Speed, Low Noise Op Amp	8-MSOP	1203.20/1,000		
LMH6672LDCT-ND	Dual, High Output Current, High Speed Op Amp	8-LLP	4.48	3.41	2.60
LMH6672LDTR-ND	Dual, High Output Current, High Speed Op Amp	8-LLP	2255.40/1,000		
LMH6672MA-ND	Dual, High Output Current, High Speed Op Amp	8-SOIC	3.80	2.89	2.21
LMH6672MR-ND	Dual, High Output Current, High Speed Op Amp	8-PSOP	3.80	2.89	2.21
LMH6678LQCT-ND	Low Power 2-Channel Central-Office XDSL Driver	24-LLP	5.23	3.98	3.04
LMH6678LQTR-ND	Low Power 2-Channel Central-Office XDSL Driver	24-LLP	2633.40/1,000		
LMH6682MA-ND	Dual, 190MHz Single Supply Op Amp	8-SOIC	2.64	1.96	1.45
LMH6682MMCT-ND	Dual, 190MHz Single Supply Op Amp	8-MSOP	2.64	1.96	1.45
LMH6682MMTR-ND	Dual, 190MHz Single Supply Op Amp	8-MSOP	1088.00/1,000		
LMH6683MA-ND	Triple, 190MHz Single Supply Op Amp	14-SOIC	2.95	2.25	1.72
LMH6683MT-ND	Triple, 190MHz Single Supply Op Amp	14-TSSOP	2.95	2.25	1.72
LMH6702MA-ND	720MHz, Ultra Low Distortion, Wideband Op Amp	8-SOIC	3.55	2.70	2.06
LMH6702MFCT-ND	720MHz, Ultra Low Distortion, Wideband Op Amp	SOT-23-5	3.55	2.70	2.06
LMH6702MFTR-ND	720MHz, Ultra Low Distortion, Wideband Op Amp	SOT-23-5	1789.20/1,000		
LMH6703MA-ND	1.2GHz, Low Distortion Op Amp	8-SOIC	3.55	2.70	2.06
LMH6703MFCT-ND	1.2GHz, Low Distortion Op Amp*	SOT-23-6	3.55	2.70	2.06
LMH6703MFTR-ND	1.2GHz, Low Distortion Op Amp*	SOT-23-6	1789.20/1,000		
LMH6704MA-ND	650MHz Programmable Gain Buffer with Disable	8-SOIC	3.55	2.70	2.06
LMH6704MFCT-ND	650MHz Programmable Gain Buffer with Disable	SOT-23-6	3.55	2.70	2.06
LMH6704MFTR-ND	650MHz Programmable Gain Buffer with Disable	SOT-23-6	1789.20/1,000		
LMH6714MA-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	8-SOIC	2.95	2.19	1.62
LMH6714MFCT-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	SOT-23-5	2.95	2.19	1.62
LMH6714MFTR-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	SOT-23-5	1216.00/1,000		
LMH6715MA-ND	Dual, Wideband Video Op Amp	8-SOIC	4.03	3.06	2.34
LMH6718MA-ND	Dual, High Output Programmable Gain Buffer	8-SOIC	3.28	2.49	1.90
LMH6720MA-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	8-SOIC	2.50	1.90	1.45
LMH6720MFCT-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	SOT-23-6	2.50	1.90	1.45
LMH6720MFTR-ND	Single, 400MHz, Wideband Video Op Amp w/Shutdown	SOT-23-6	1260.00/1,000		
LMH6722MA-ND	Quad, Wideband Video Op Amp	14-SOIC	5.13	3.90	2.98
LMH6722MT-ND	Quad, Wideband Video Op Amp*	14-TSSOP	5.23	3.98	3.04
LMH6723MA-ND	370MHz, 1mA Current Feedback Op Amp	8-SOIC	2.98	2.27	1.73
LMH6723MFCT-ND	370MHz, 1mA Current Feedback Op Amp	SOT-23-5	2.98	2.27	1.73
LMH6723MFTR-ND	370MHz, 1mA Current Feedback Op Amp	SOT-23-5	1499.40/1,000		
LMH6724MA-ND	Dual, 370MHz, 1mA Current Feedback Op Amp	8-SOIC	4.18	3.18	2.43
LMH6725MA-ND	Quad, 370MHz, 1mA Current Feedback Op Amp	14-SOIC	5.95	4.53	3.46
LMH6732MA-ND	High Speed Op Amp with Adj. Bandwidth	8-SOIC	5.73	4.54	3.64
LMH6732MFCT-ND	High Speed Op Amp with Adj. Bandwidth	SOT-23-6	5.73	4.54	3.64
LMH6732MFTR-ND	High Speed Op Amp with Adj. Bandwidth	SOT-23-6	3385.20/1,000		
LMH6738MQ-ND	Very Wideband, Low Distortion Triple Op Amp	16-SSOP	5.95	4.53	3.46
LMH6739MQ-ND	Very Wideband, Low Distortion Triple Video Buffer	16-SSOP	5.40	4.27	3.42
LMH730151-ND	Triple 2:1 Multiplexer Evaluation Board	—	6.30	—	—
LMH730154-ND	High Speed Differential Amp Evaluation Board	—	6.30	—	—
LMH730275-ND	Triple High Speed SSOP Op Amp Evaluation Board	—	6.30	—	—
LMH730276-ND	4:1 Multiplexer Evaluation Board	—	6.30	—	—
LMH730277-ND	2:1 Multiplexer Evaluation Board	—	6.30	—	—
LMP2011MA-ND	Single High Precision, Rail-to-Rail Output Op Amp	8-SOIC	2.50	1.90	1.45
LMP2011MFCT-ND	Single High Precision, Rail-to-Rail Output Op Amp	SOT-23-5	2.50	1.90	1.45
LMP2011MFTR-ND	Single High Precision, Rail-to-Rail Output Op Amp	SOT-23-5	1260.00/1,000		
LMP2012MMCT-ND	Dual, High Precision, Rail-to-Rail Output Op Amp	8-MSOP	3.93	2.99	2.28
LMP2012MMTR-ND	Dual, High Precision, Rail-to-Rail Output Op Amp	8-MSOP	1978.20/1,000		
LMP2014MT-ND	Quad, High Precision, Rail-to-Rail Output Op Amp	14-TSSOP	5.50	4.35	3.49
LMP7701MFCT-ND	Precision, CMOS Input, R/R I/O Wide Supply Range Amp ***NEW!***	SOT-23-5	2.50	1.90	1.45
LMP7701MFTR-ND	Precision, CMOS Input, R/R I/O Wide Supply Range Amp ***NEW!***	SOT-23-5	1260.00/1,000		
LMP7711MKCT-ND	Single Precision, 17MHz, Low Noise CMOS Input Amp ***NEW!***	TSOT-23-6	3.68	2.80	2.14
LMP7711MKTR-ND	Single Precision, 17MHz, Low Noise CMOS Input Amp ***NEW!***	TSOT-23-6	1852.20/1,000		
LMP7712MMCT-ND	Dual Precision, 17MHz, Low Noise CMOS Input Amp ***NEW!***	10-MSOP	5.10	3.88	2.96
LMP7712MMTR-ND	Dual Precision, 17MHz, Low Noise CMOS Input Amp ***NEW!***	10-MSOP	2570.40/1,000		
LMS1585ACS-ADJ-ND	Adj. 5A LDO Fast Response Regulator	TO-263	2.55	1.94	1.48
LMS1585ACS-3.3-ND	3.3V, 5A LDO Fast Response Regulator	TO-263	2.55	1.94	1.48
LMS1585ACT-ADJ-ND	Adj. 5A LDO Fast Response Regulator	TO-220	2.55	1.94	1.48
LMS1585ACT-3.3-ND	3.3V, 5A LDO Fast Response Regulator	TO-220	2.55	1.94	1.48
LMS1585AIS-ADJ-ND	Adj. 5A LDO Fast Response Regulator, Ind. Temp.	TO-263	2.55	1.94	1.48
LMS1585AIS-3.3-ND	3.3V, 5A LDO Fast Response Regulator, Ind. Temp.	TO-263	2.55	1.94	1.48
LMS1585AIT-ADJ-ND	Adj. 5A LDO Fast Response Regulator, Ind. Temp.	TO-220	2.55	1.94	1.48
LMS1585AIT-1.5-ND	1.5V, 5A, LDO Fast Response Regulator, Ind. Temp.	TO-220	2.55	1.94	1.48
LMS1585AIT-3.3-ND	3.3V, 5A LDO Fast Response Regulator, Ind. Temp.	TO-220	2.55	1.94	1.48
LMS1587CS-ADJ-ND	Adj. 3A LDO Fast Response Regulator	TO-263	2.55	1.94	1.48
LMS1587CS-1.5-ND	1.5V, 3A LDO Fast Response Regulator	TO-263	2.55	1.94	1.48
LMS1587CT-ADJ-ND	Adj. 3A LDO Fast Response Regulator	TO-220	2.55	1.94	1.48
LMS1587CT-3.3-ND	3.3V, 3A LDO Fast Response Regulator	TO-220	2.55	1.94	1.48
LMS1587IS-ADJ-ND	Adj. 3A LDO Fast Response Regulator, Ind. Temp.	TO-263	2.55	1.94	1.48
LMS1587IS-3.3-ND	3.3V, 3A LDO Fast Response Regulator, Ind. Temp.	TO-263	2.55	1.94	1.48
LMS1587IT-ADJ-ND	Adj. 3A LDO Fast Response Regulator, Ind. Temp.	TO-220	2.55	1.94	1.48
LMS1587IT-3.3-ND	3.3V, 3A LDO Fast Response Regulator, Ind. Temp.	TO-220	2.55	1.94	1.48
LMS5213IM7-3.3CT-ND	80mA, LDO Voltage Regulator	SC-70-5	1.39	1.02	.74
LMS5213IM7-3.3TR-ND	80mA, LDO Voltage Regulator	SC-70-5	481.00/1,000		
LMS8117ADT-1.8-ND	1.8V, 1A LDO Linear Regulator	TO-252	1.72	1.27	.92
LMV112SDCT-ND	40MHz Dual Clock Buffer*	8-LLP	1.50	1.10	.80
LMV112SDTR-ND	40MHz Dual Clock Buffer*	8-LLP	520.00/1,000		
LMV115MGCT-ND	GSM Baseband 30MHz, 2.8V Oscillator Buffer	SC70-6	1.20	.88	.64
LMV115MGTR-ND	GSM Baseband 30MHz, 2.8V Oscillator Buffer	SC70-6	416.00/1,000		
LMV116MFCT-ND	Low Volt, 45MHz, R/R Output Op Amp	SOT-23-5	1.67	1.25	.92
LMV116MFTR-ND	Low Volt, 45MHz, R/R Output Op Amp	SOT-23-5	691.20/1,000		
LMV118MFCT-ND	Low Volt, 45MHz, R/R Output Op Amp with Shutdown	SOT-23-6	1.74	1.29	.96
LMV118MFTR-ND	Low Volt, 45MHz, R/R Output Op Amp with Shutdown	SOT-23-6	716.80/1,000		
LMV225TLCT-ND	RF Power Detector for CDMA and WCDMA	4-microSMD	1.61	1.19	.86
LMV225TLTR-ND	RF Power Detector for CDMA and WCDMA	4-microSMD	161.25/250		
LMV226TLCT-ND	RF Power Detector for CDMA and WCDMA	4-microSMD	1.58	1.18	.87
LMV226TLTR-ND	RF Power Detector for CDMA and WCDMA	4-microSMD	172.13/250		
LMV228TLCT-ND	RF Power Detector for CDMA and WCDMA	4-microSMD	1.61	1.19	.86
LMV228TLTR-ND	RF Power Detector for CDMA and WCDMA	4-microSMD	161.25/250		
LMV242LDCT-ND	Dual Output, Quad-Band GSM/GPRS Power Amp Controller	10-LLP	1.71	1.27	.94
LMV242LDTR-ND	Dual Output, Quad-Band GSM/GPRS Power Amp Controller	10-LLP	704.00/1,000		

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMV243BLCT-ND	Single-Channel, Quad Band GSM Power Controller	8-microSMD	2.57	1.91	1.42
LMV243BLTR-ND	Single-Channel, Quad Band GSM Power Controller	8-microSMD		280.13/250	
LMV301MGCT-ND	Op Amp 1.8V, Low Input Bias, Rail-to-Rail Output	SC70-5	1.02	.75	.55
LMV301MGTR-ND	Op Amp 1.8V, Low Input Bias, Rail-to-Rail Output	SC70-5		352.30/1,000	
LMV321M5CT-ND	Op Amp Low Voltage	SOT-23-5	.88	.64	.47
LMV321M5TR-ND	Op Amp Low Voltage	SOT-23-5		274.40/1,000	
LMV321M7CT-ND	Op Amp Low Voltage (2/3 the size of SOT-23)	SC70-5	.92	.67	.48
LMV321M7TR-ND	Op Amp Low Voltage (2/3 the size of SOT-23)	SC70-5		285.60/1,000	
LMV324M-ND	Low Power Quad Op Amp Low Voltage	14-SOIC	.96	.71	.51
LMV324MXCT-ND	Low Power Quad Op Amp Low Voltage ***NEW!***	14-SOIC	.96	.71	.51
LMV324MXTR-ND	Low Power Quad Op Amp Low Voltage	14-SOIC		812.81/2,500	
LMV324MT-ND	Low Power Quad Op Amp Low Voltage	14-TSSOP	1.12	.82	.60
LMV331M5CT-ND	Single General Purpose, Low Voltage, TinyPack Comp.	SOT-23-5	1.08	.78	.57
LMV331M5TR-ND	Single General Purpose, Low Voltage, TinyPack Comp.	SOT-23-5		336.00/1,000	
LMV331M5XCT-ND	General Purpose Low Voltage TinyPack Comparator	SOT-23-5	1.08	.78	.57
LMV331M5XTR-ND	General Purpose Low Voltage TinyPack Comparator	SOT-23-5		957.60/3,000	
LMV331M7TR-ND	General Purpose Low Voltage TinyPack Comparator	SC70-5		325.00/1,000	
LMV331M7XCT-ND	General Purpose Low Voltage TinyPack Comparator	SC70-5	.94	.69	.50
LMV331M7XTR-ND	General Purpose Low Voltage TinyPack Comparator	SC70-5		956.25/3,000	
LMV339M-ND	Quad General Purpose, Low Voltage, TinyPack Comp.	14-SOIC		397.80/1,000	
LMV339MT-ND	Quad General Purpose, Low Voltage, TinyPack Comp.	14-TSSOP	1.28	.94	.68
LMV341MGCT-ND	Single, 2.7V, Rail-to-Rail Op Amp	SC70-6	.98	.72	.52
LMV341MGTR-ND	Single, 2.7V, Rail-to-Rail Op Amp	SC70-6		338.00/1,000	
LMV342MA-ND	Dual, 2.7V, Rail-to-Rail, Op Amp	8-SOIC	1.14	.84	.61
LMV342MMCT-ND	Dual, 2.7V, Rail-to-Rail, Op Amp	8-MSOP	1.18	.87	.63
LMV342MMTR-ND	Dual, 2.7V, Rail-to-Rail, Op Amp	8-MSOP		408.20/1,000	
LMV344MA-ND	Quad, 2.7V, Rail-to-Rail, Op Amp	14-SOIC	1.25	.92	.67
LMV344MT-ND	Quad, 2.7V, Rail-to-Rail, Op Amp	14-TSSOP	1.39	1.03	.75
LMV358M-ND	Low Power Dual Op Amp, Low Voltage	8-SOIC	1.07	.78	.56
LMV358MXCT-ND	Low Power Dual Op Amp, Low Voltage ***NEW!***	8-SOIC	1.07	.78	.56
LMV358MXTR-ND	Low Power Dual Op Amp, Low Voltage	8-SOIC		791.35/2,500	
LMV358MMCT-ND	Low Power Dual Op Amp, Low Voltage	8-MSOP	1.07	.78	.56
LMV358MMTR-ND	Low Power Dual Op Amp, Low Voltage	8-MSOP		333.20/1,000	
LMV393M-ND	Dual General Purpose Low Voltage, TinyPack Comp.	8-SOIC	1.01	.75	.54
LMV393MMCT-ND	Dual General Purpose Low Voltage, TinyPack Comp.	8-MSOP	1.01	.75	.54
LMV393MMTR-ND	Dual General Purpose Low Voltage, TinyPack Comp.	8-MSOP		351.00/1,000	
LMV393MMXCT-ND	Dual General Purpose Low Voltage, TinyPack Comp.	8-MSOP	1.01	.75	.54
LMV393MMXTR-ND	General Purpose Low Voltage, TinyPack Comparator	8-MSOP		1204.88/3,500	
LMV422MMCT-ND	Dual Rail-to-Rail Output Op Amp	10-MSOP	2.85	2.17	1.66
LMV422MMTR-ND	Dual Rail-to-Rail Output Op Amp	10-MSOP		1436.40/1,000	
LMV431ACM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5	.70	.51	.37
LMV431ACM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5		218.40/1,000	
LMV431ACZ-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	TO-92	.70	.51	.37
LMV431AIM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5	.83	.60	.44
LMV431AIM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5		257.60/1,000	
LMV431AIZ-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	TO-92	.83	.60	.44
LMV431CM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5	.66	.48	.35
LMV431CM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5		205.80/1,000	
LMV431CZ-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	TO-92	.66	.48	.35
LMV431IM5CT-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5	.70	.51	.37
LMV431IM5TR-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	SOT-23-5		218.40/1,000	
LMV431IZ-ND	Low-Voltage (1.24V) Adj. Precision Shunt Regulator	TO-92	.70	.51	.37
LMV710M5CT-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option	SOT-23-5	1.43	1.06	.79
LMV710M5TR-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option	SOT-23-5		678.40/1,000	
LMV711M6CT-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option	SOT-23-6	1.84	1.35	.98
LMV711M6TR-ND	Low Power, R/R, I/O Op Amp with High Output Current Drive and Shutdown Option	SOT-23-6		637.00/1,000	
LMV712BLCT-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown	10-microSMD	2.24	1.67	1.23
LMV712BLTR-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown	10-microSMD		243.68/250	
LMV712LDCT-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown	10-LLP	2.23	1.66	1.23
LMV712LDTR-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown	10-LLP		921.60/1,000	
LMV712MMCT-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown	10-MSOP	1.83	1.36	1.01
LMV712MMTR-ND	Low Power, Low Noise, High Output, R/R, In/Out Dual Op Amp with Independent Shutdown	10-MSOP		755.20/1,000	
LMV715MFCT-ND	Low Power, R/R, In/Out Op Amp with High Output Current Drive and Shutdown Option	SOT-23-6	1.84	1.35	.98
LMV715MFTR-ND	Low Power, R/R, In/Out Op Amp with High Output Current Drive and Shutdown Option	SOT-23-6		637.00/1,000	
LMV721M5CT-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp	SOT-23-5	1.61	1.19	.86
LMV721M5TR-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp	SOT-23-5		559.00/1,000	
LMV721M7CT-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp	SC70-5	1.61	1.19	.86
LMV721M7TR-ND	Low Noise, Low Voltage, 10MHz, Low Power Op Amp	SC70-5		559.00/1,000	
LMV722LDCT-ND	10MHz Low Noise, Low Volt., Low Power Op Amp*	8-LLP	1.67	1.25	.92
LMV722LDTR-ND	10MHz Low Noise, Low Volt., Low Power Op Amp*	8-LLP		691.20/1,000	
LMV722M-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp	8-SOIC	1.67	1.25	.92
LMV722MMCT-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp	8-MSOP	1.67	1.25	.92
LMV722MMTR-ND	10MHz Low Noise, Low Voltage, Low Power Op Amp	8-MSOP		691.20/1,000	
LMV751M5CT-ND	Low Noise, Low Voltage, Single Op Amp	SOT-23-5	2.29	1.71	1.26
LMV751M5TR-ND	Low Noise, Low Voltage, Single Op Amp	SOT-23-5		947.20/1,000	
LMV761MA-ND	Low Voltage Prec. Comparator with Push-Pull Output	8-SOIC	1.56	1.16	.86
LMV761MFCT-ND	Low Voltage Prec. Comparator with Push-Pull Output	SOT-23-6	1.56	1.16	.86
LMV761MFTR-ND	Low Voltage Prec. Comparator with Push-Pull Output	SOT-23-6		645.12/1,000	
LMV762MA-ND	Low Voltage Prec. Comparator with Push-Pull Output	8-SOIC	2.17	1.61	1.19
LMV762MMCT-ND	Low Voltage Prec. Comparator with Push-Pull Output	8-MSOP	2.17	1.61	1.19
LMV762MMTR-ND	Low Voltage Prec. Comparator with Push-Pull Output	8-MSOP		896.00/1,000	
LMV771MGCT-ND	Low Offset, Low Noise, Rail-to-Rail Output Op Amp	SC70-5	1.84	1.35	.98
LMV771MGTR-ND	Low Offset, Low Noise, Rail-to-Rail Output Op Amp	SC70-5		637.00/1,000	
LMV772MA-ND	Dual Low Offset, Low Noise Op Amp	8-SOIC	1.74	1.30	.96
LMV772MMCT-ND	Dual Low Offset, Low Noise Op Amp	8-MSOP	1.74	1.30	.96
LMV772MMTR-ND	Dual Low Offset, Low Noise Op Amp	8-MSOP		718.08/1,000	
LMV774MT-ND	Quad Low Offset, Low Noise Op Amp	14-TSSOP	2.17	1.61	1.19
LMV791MKCT-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	TSOT-23-6	1.83	1.36	1.01
LMV791MKTR-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp*	TSOT-23-6		755.20/1,000	
LMV792MMCT-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp ***NEW!***	10-MSOP	2.50	1.90	1.45
LMV792MMTR-ND	17MHz, Low Noise, CMOS Input, 1.8V Op Amp ***NEW!***	10-MSOP		1260.00/1,000	
LMV821M5CT-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp	SOT-23-5	1.35	.99	.72

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LMV821M5TR-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp	SOT-23-5		468.00/1,000	
LMV821M7CT-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp	SC70-5	1.39	1.02	.74
LMV821M7TR-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp	SC70-5		481.00/1,000	
LMV822M-ND	Low Voltage, 5MHz, Low Power, R/R, Output Op Amp	8-SOIC	1.50	1.10	.80
LMV822MMCT-ND	Dual Low Volt, 5MHz, Low Power, R/R, Output Op Amp	8-MSOP	1.57	1.15	.84
LMV822MMTR-ND	Dual Low Volt, 5MHz, Low Power, R/R, Output Op Amp	8-MSOP		543.40/1,000	
LMV822MXCT-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp	8-SOIC	1.50	1.10	.80
LMV822MXTR-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp	8-SOIC		1271.81/2,500	
LMV822MMXTR-ND	Low Volt, 5MHz, Low Power, R/R, Output Op Amp	8-MSOP		1865.33/3,500	
LMV824M-ND	Quad Low Volt, 5MHz, Low Power, R/R, Output Op Amp	14-SOIC	1.71	1.26	.92
LMV824MT-ND	Quad Low Volt, 5MHz, Low Power, R/R, Output Op Amp	14-TSSOP	1.75	1.29	.94
LMV931MFCT-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp	SOT-23-5	1.39	1.02	.74
LMV931MFTR-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp	SOT-23-5		481.00/1,000	
LMV931MGCT-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp	SC70-5	1.39	1.02	.74
LMV931MGTR-ND	Single 1.8V Rail-to-Rail, In/Out, Op Amp	SC70-5		481.00/1,000	
LMV932MA-ND	Dual 1.8V Rail-to-Rail, In/Out, Op Amp	8-SOIC	1.54	1.13	.82
LMV932MMCT-ND	Dual 1.8V Rail-to-Rail, In/Out, Op Amp	8-MSOP	1.54	1.13	.82
LMV932MMTR-ND	Dual 1.8V Rail-to-Rail, In/Out, Op Amp	8-MSOP		533.00/1,000	
LMV934MA-ND	Quad 1.8V Rail-to-Rail, In/Out, Op Amp	14-SOIC	1.77	1.32	.97
LMV934MT-ND	Quad 1.8V Rail-to-Rail, In/Out, Op Amp	14-TSSOP	1.77	1.32	.97
LMV981BLCT-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown	6-microSMD	1.70	1.25	.91
LMV981BLTR-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown	6-microSMD		169.88/250	
LMV981MFCT-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown	SOT-23-6	1.61	1.18	.86
LMV981MFTR-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown	SOT-23-6		556.40/1,000	
LMV981MGCT-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown	SC70-6	1.61	1.18	.86
LMV981MGTR-ND	1.8V Rail-to-Rail, In/Out, Op Amp with Shutdown	SC70-6		556.40/1,000	
LMV982MMCT-ND	Dual, 1.8V, Rail-to-Rail In/Out Op Amp with Shutdown	10-MSOP	1.59	1.18	.88
LMV982MMTR-ND	Dual, 1.8V, Rail-to-Rail In/Out Op Amp with Shutdown	10-MSOP		656.64/1,000	
LMV1012TP-07CT-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	1.43	1.05	.76
LMV1012TP-07TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD		142.50/250	
LMV1012TP-15CT-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	1.46	1.08	.78
LMV1012TP-15TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD		146.25/250	
LMV1012TP-25CT-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	1.46	1.08	.78
LMV1012TP-25TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD		146.25/250	
LMV1012UP-07CT-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	1.43	1.05	.76
LMV1012UP-07TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD		142.50/250	
LMV1012UP-15CT-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	1.43	1.05	.76
LMV1012UP-15TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD		142.50/250	
LMV1012UP-20CT-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	1.43	1.05	.76
LMV1012UP-20TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD		142.50/250	
LMV1012UP-25CT-ND	Analog Pre-Amp for High Gain Microphone	4-MSOP	1.43	1.05	.76
LMV1012UP-25TR-ND	Analog Pre-Amp for High Gain Microphone	4-MSOP		142.50/250	
LMV1012XP-15CT-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD	1.76	1.30	.94
LMV1012XP-15TR-ND	Analog Pre-Amp for High Gain Microphone	4-microSMD		176.25/250	
LMV1012XP-25CT-ND	Analog Pre-Amp for High Gain Microphone	4-MicroSMD	1.84	1.35	.98
LMV1012XP-25TR-ND	Analog Pre-Amp for High Gain Microphone	4-MicroSMD		183.75/250	
LMV1015UR-15CT-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD	1.28	.94	.68
LMV1015UR-15TR-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD		127.50/250	
LMV1015UR-25CT-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD	1.39	1.02	.74
LMV1015UR-25TR-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD		138.75/250	
LMV1015XR-15CT-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD	1.54	1.13	.82
LMV1015XR-15TR-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD		153.75/250	
LMV1015XR-25CT-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD	1.58	1.16	.84
LMV1015XR-25TR-ND	Built-in Gain IC for High Sensitivity 2-Wire Microphone	4-USMD		157.50/250	
LMV1032UP-06CT-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP	1.76	1.30	.94
LMV1032UP-06TR-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP		176.25/250	
LMV1032UP-15CT-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP	1.76	1.30	.94
LMV1032UP-15TR-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP		176.25/250	
LMV1032UP-25CT-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP	1.76	1.30	.94
LMV1032UP-25TR-ND	Amp for 3-Wire Analog Electret Microphone	4-MSOP		176.25/250	
LMV2011MA-ND	High Precision, Rail-to-Rail Output Op Amp	8-SOIC	2.51	1.87	1.38
LMV2011MFCT-ND	High Precision, Rail-to-Rail Output Op Amp	SOT-23-5	2.51	1.87	1.38
LMV2011MFTR-ND	High Precision, Rail-to-Rail Output Op Amp	SOT-23-5		1036.80/1,000	
LMV7219M5CT-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output	SOT-23-5	2.63	2.00	1.53
LMV7219M5TR-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output	SOT-23-5		1323.00/1,000	
LMV7219M7CT-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output	SC70-5	2.63	2.00	1.53
LMV7219M7TR-ND	7nS, 2.7V to 5V Comparator with Rail-to-Rail, Output	SC70-5		1323.00/1,000	
LMV7235M5CT-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SOT-23-5	1.74	1.29	.96
LMV7235M5TR-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SOT-23-5		716.80/1,000	
LMV7235M7CT-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SC70-5	1.74	1.29	.96
LMV7235M7TR-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SC70-5		716.80/1,000	
LMV7239M5CT-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Output	SOT-23-5	1.74	1.29	.96
LMV7239M5TR-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Output	SOT-23-5		716.80/1,000	
LMV7239M7CT-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SC70-5	1.74	1.29	.96
LMV7239M7TR-ND	Ultra Low Power, Low Voltage, R/R Input Comparator with Open Drain/Push Pull Ouput	SC70-5		716.80/1,000	
LMV7271MFCT-ND	Single, 1.8V Low Power Comparator with R/R Input	SOT-23-5	1.43	1.05	.76
LMV7271MFTR-ND	Single, 1.8V Low Power Comparator with R/R Input	SOT-23-5		494.00/1,000	
LMV7271MGCT-ND	Single, 1.8V Low Power Comparator with R/R Input	SC70-5	1.43	1.05	.76
LMV7271MGTR-ND	Single, 1.8V Low Power Comparator with R/R Input	SC70-5		494.00/1,000	
LMV7272TLCT-ND	Dual, 1.8V Low Power Comparator with R/R Input	microSMD	1.65	1.23	.91
LMV7272TLTR-ND	Dual, 1.8V Low Power Comparator with R/R Input	microSMD		179.55/250	
LMV7275MFCT-ND	1.8V Low Power Comparator with Rail-to-Rail Input	SOT-23-5	1.43	1.05	.76
LMV7275MFTR-ND	1.8V Low Power Comparator with Rail-to-Rail Input	SOT-23-5		494.00/1,000	
LMV7275MGCT-ND	1.8V Low Power Comparator with Rail-to-Rail Input	SC70-5	1.43	1.05	.76
LMV7275MGTR-ND	1.8V Low Power Comparator with Rail-to-Rail Input	SC70-5		494.00/1,000	
LMV7291MGCT-ND	1.8V Low Power Comparator with Rail-to-Rail Input	SC70-5	1.39	1.03	.75
LMV7291MGTR-ND	1.8V Low Power Comparator with Rail-to-Rail Input	SC70-5		482.30/1,000	
LP324M-ND	Micropower Quad Op Amp	14-SOIC	1.10	.81	.59
LP324MT-ND	Micropower Quad Op Amp	14-TSSOP	1.42	1.04	.76
LP324MXCT-ND	Micropower Quad Op Amp ***NEW!***	14-SOIC	.94	.69	.50
LP324MXTR-ND	Micropower Quad Op Amp	14-SOIC		937.13/2,500	
LP324N-ND	Micropower Quad Op Amp	14-Dip	1.28	.94	.69
LP339M-ND	Ultra-Low Power Quad Comparator	14-SOIC	.99	.73	.53
LP339MXCT-ND	Ultra-Low Power Quad Comparator ***NEW!***	14-SOIC	.98	.72	.52
LP339MXTR-ND	Ultra-Low Power Quad Comparator	14-SOIC		841.50/2,500	
LP339NNS-ND	Ultra-Low Power Quad Comparator	14-Dip	1.15	.85	.62

** RoHS Compliant*

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP395Z-ND	Ultra Reliable Power Transistor	TO-92	1.55	1.15	.85
LP2902M-ND	Micropower Quad Operational Amplifier	14-SOIC	1.66	1.22	.89
LP2902MXCT-ND	Micropower Quad Operational Amplifier ***NEW!***	14-SOIC	1.65	1.21	.88
LP2902MXTR-ND	Micropower Quad Operational Amplifier	14-SOIC	1408.88/2,500		
LP2902N-ND	Micropower Quad Operational Amplifier	14-Dip	1.84	1.35	.98
LP2950ACZ-3.0-ND	3V, Series Adjustable Micropower Voltage Regulator	TO-92	1.05	.78	.57
LP2950ACZ-3.3-ND	3.3V, Series Adjustable Micropower Voltage Regulator	TO-92	1.05	.78	.57
LP2950ACZ-5.0NS-ND	5V, Micropower Voltage Regulator	TO-92	1.05	.78	.57
LP2950CDT-3.3-ND	3.3V, Micropower Voltage Regulator	TO-252	1.28	.94	.68
LP2950CDT-5.0NS-ND	Adjustable Micropower Voltage Regulator	D-Pak	1.28	.94	.68
LP2950CZ-3.0-ND	3V, Series Adjustable Micropower Voltage Regulator	TO-92	1.04	.75	.55
LP2950CZ-3.3-ND	3.3V, Adj. Micropower Voltage Regulator	TO-92	1.04	.75	.55
LP2950CZ-5.0NS-ND	5V, Micropower Voltage Regulator	TO-92	1.04	.75	.55
LP2951ACM-ND	1.24-29V, Adjustable Voltage Regulator	8-SOIC	1.07	.78	.56
LP2951ACMXCT-ND	1.24-29V, Adjustable Voltage Regulator ***NEW!***	8-SOIC	1.08	.78	.57
LP2951ACMXTR-ND	1.24-29V, Adjustable Voltage Regulator	8-SOIC	791.35/2,500		
LP2951ACM-3.0-ND	3V, Series Adj. Micropower Voltage Regulator	8-SOIC	1.07	.78	.56
LP2951ACM-3.3-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-SOIC	1.07	.78	.56
LP2951ACMM-3.0CT-ND	3V, Series Adj. Micropower Voltage Regulator	8-MSOP	1.11	.81	.59
LP2951ACMM-3.0TR-ND	3V, Series Adj. Micropower Voltage Regulator	8-MSOP	345.80/1,000		
LP2951ACMM-3.3CT-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-MSOP	1.11	.81	.59
LP2951ACMM-3.3TR-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-MSOP	345.80/1,000		
LP2951ACMMCT-ND	Series Adj. Micropower Voltage Regulator	8-MSOP	1.11	.81	.59
LP2951ACMMTR-ND	Series Adj. Micropower Voltage Regulator	8-MSOP	345.80/1,000		
LP2951ACN-ND	1.24-29V, Adjustable Micropower Voltage Regulator	8-Dip	1.56	1.15	.84
LP2951ACN-3.3-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-Dip	1.56	1.15	.84
LP2951CM-ND	1.24-29V, Adjustable Micropower Voltage Regulator	8-SOIC	1.04	.75	.55
LP2951CMXCT-ND	1.24-29V, Adjustable Micropower Voltage Reg. ***NEW!***	8-SOIC	1.04	.75	.55
LP2951CMXTR-ND	1.24-29V, Adjustable Micropower Voltage Reg.	8-SOIC	764.75/2,500		
LP2951CM-3.0-ND	3V, Series Adj. Micropower Voltage Regulator	8-SOIC	1.04	.75	.55
LP2951CM-3.3-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-SOIC	1.04	.75	.55
LP2951CMM-3.0CT-ND	3V, Series Adj. Micropower Voltage Regulator	8-MSOP	1.11	.81	.59
LP2951CMM-3.0TR-ND	3V, Series Adj. Micropower Voltage Regulator	8-MSOP	345.80/1,000		
LP2951CMM-3.3CT-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-MSOP	1.11	.81	.59
LP2951CMM-3.3TR-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-MSOP	345.80/1,000		
LP2951CMMCT-ND	Series Adj. Micropower Voltage Regulator	8-MSOP	1.11	.81	.59
LP2951CMMTR-ND	Series Adj. Micropower Voltage Regulator	8-MSOP	345.80/1,000		
LP2951CN-ND	Adjustable Micropower Voltage Regulator	8-Dip	1.56	1.15	.84
LP2951CN-3.0-ND	3V, Series Adj. Micropower Voltage Regulator	8-Dip	1.56	1.15	.84
LP2951CN-3.3-ND	3.3V, Series Adj. Micropower Voltage Regulator	8-Dip	1.56	1.15	.84
LP2952AIM-3.3-ND	3.3V, Adj. LDO Voltage Regulator	16-SOIC	3.80	2.89	2.21
LP2952AIM-ND	Adj. LDO Voltage Regulator	16-SOIC	3.80	2.89	2.21
LP2952AIN-3.3-ND	3.3V, Adj. LDO Voltage Regulator	14-Dip	3.80	2.89	2.21
LP2952IM-ND	250mA Low Power Adjustable Voltage Regulator	16-SOIC	2.48	1.84	1.36
LP2952IM-3.3-ND	3.3V, Adj. LDO Voltage Regulator	16-SOIC	2.48	1.84	1.36
LP2952IN-3.3-ND	3.3V, Adj. LDO Voltage Regulator	14-Dip	2.48	1.84	1.36
LP2953AIM-ND	250mA Low Power Adj. Voltage Reg. (Elect. Improved)	16-SOIC	4.58	3.48	2.66
LP2953IM-ND	250mA Low Power Adjustable Voltage Regulator	16-SOIC	2.53	1.92	1.47
LP2953IN-ND	250mA Low Power Adjustable Voltage Regulator	16-Dip	2.53	1.92	1.47
LP2954AIS-ND	Adj. Micropower LDO Voltage Regulator	TO-263	5.05	3.84	2.93
LP2954AIT-ND	5.0V, Micropower Low Dropout Voltage Regulator	TO-220	5.05	3.84	2.93
LP2954IS-ND	5A Micropower LDO Voltage Regulator	TO-263	2.68	2.04	1.56
LP2954IT-ND	5.0V, Low Power Voltage Regulator	TO-220	2.68	2.04	1.56
LP2956AIM-ND	Dual Micropower LDO Voltage Regulator	16-SOIC	4.68	3.56	2.72
LP2956AIN-ND	Dual Micropower LDO Voltage Regulator	16-Dip	4.68	3.56	2.72
LP2956IM-ND	Dual Micropower LDO Voltage Regulator	16-SOIC	3.45	2.63	2.01
LP2957AIS-ND	5.0V, LDO Regulator for Micropower Application	TO-263-5	4.25	3.23	2.47
LP2957AIT-ND	5.0V, LDO Regulator for Micropower Application	TO-220-5	4.25	3.23	2.47
LP2957IS-ND	5.0V, LDO Regulator for Micropower Application	TO-263-5	3.28	2.49	1.90
LP2960IM-3.3-ND	3.3V, .5A Micropower LDO Regulator	16-SOIC	2.50	1.90	1.45
LP2960IM-5.0-ND	5.0V, .5A Micropower LDO Regulator, 160ppm	16-SOIC	2.50	1.90	1.45
LP2966IMM-1818CT-ND	Dual 150mA Ultra LDO Regulator, 1.8V/1.8V	8-MSOP	2.33	1.73	1.28
LP2966IMM-1818TR-ND	Dual 150mA Ultra LDO Regulator, 1.8V/1.8V	8-MSOP	961.28/1,000		
LP2966IMM-1828CT-ND	Dual 150mA Ultra LDO Regulator, 1.8V/2.8V	8-MSOP	2.33	1.73	1.28
LP2966IMM-1828TR-ND	Dual 150mA Ultra LDO Regulator, 1.8V/2.8V	8-MSOP	961.28/1,000		
LP2966IMM-1830CT-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3V	8-MSOP	2.33	1.73	1.28
LP2966IMM-1830TR-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3V	8-MSOP	961.28/1,000		
LP2966IMM-1833CT-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3.3V	8-MSOP	2.33	1.73	1.28
LP2966IMM-1833TR-ND	Dual 150mA Ultra LDO Regulator, 1.8V/3.3V	8-MSOP	961.28/1,000		
LP2966IMM-2518CT-ND	Dual 150mA Ultra LDO Regulator, 2.5V/1.8V	8-SOIC	2.33	1.73	1.28
LP2966IMM-2518TR-ND	Dual 150mA Ultra LDO Regulator, 2.5V/1.8V	8-SOIC	961.28/1,000		
LP2966IMM-2525CT-ND	Dual 150mA Ultra LDO Regulator, 2.5V/2.5V	8-MSOP	2.33	1.73	1.28
LP2966IMM-2525TR-ND	Dual 150mA Ultra LDO Regulator, 2.5V/2.5V	8-MSOP	961.28/1,000		
LP2966IMM-2828CT-ND	Dual 150mA Ultra LDO Regulator, 2.8V/2.8V	8-MSOP	2.33	1.73	1.28
LP2966IMM-2828TR-ND	Dual 150mA Ultra LDO Regulator, 2.8V/2.8V	8-MSOP	961.28/1,000		
LP2966IMM-2830CT-ND	Dual 150mA Ultra LDO Regulator, 2.8V/3V	8-MSOP	2.33	1.73	1.28
LP2966IMM-2830TR-ND	Dual 150mA Ultra LDO Regulator, 2.8V/3V	8-MSOP	961.28/1,000		
LP2966IMM-3030CT-ND	Dual 150mA Ultra LDO Regulator, 3V/3V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3030TR-ND	Dual 150mA Ultra LDO Regulator, 3V/3V	8-MSOP	961.28/1,000		
LP2966IMM-3325CT-ND	Dual 150mA Ultra LDO Regulator, 3.3V/2.5V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3325TR-ND	Dual 150mA Ultra LDO Regulator, 3.3V/2.5V	8-MSOP	961.28/1,000		
LP2966IMM-3333CT-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.3V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3333TR-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.3V	8-MSOP	961.28/1,000		
LP2966IMM-3336CT-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.6V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3336TR-ND	Dual 150mA Ultra LDO Regulator, 3.3V/3.6V	8-MSOP	961.28/1,000		
LP2966IMM-3636CT-ND	Dual 150mA Ultra LDO Regulator, 3.6V/3.6V	8-MSOP	2.33	1.73	1.28
LP2966IMM-3636TR-ND	Dual 150mA Ultra LDO Regulator, 3.6V/3.6V	8-MSOP	961.28/1,000		
LP2966IMM-5050CT-ND	Dual 150mA Ultra LDO Regulator, 5V/5V	8-MSOP	2.33	1.73	1.28
LP2966IMM-5050TR-ND	Dual 150mA Ultra LDO Regulator, 5V/5V	8-MSOP	961.28/1,000		
LP2967IBP-1825CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967IBP-1825TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967IBP-1833CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967IBP-1833TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967IBP-2528CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967IBP-2528TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967IBP-2533CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967IBP-2533TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967IBP-2626CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967IBP-2626TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967IBP-2828CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967IBP-2828TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967IBP-2833CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967IBP-2833TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967IMM-2528CT-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	2.98	2.21	1.64
LP2967IMM-2528TR-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	1228.80/1,000		

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP2967IMM-2533CT-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	2.98	2.21	1.64
LP2967IMM-2533TR-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	1228.80/1,000		
LP2967IMM-2626CT-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	2.98	2.21	1.64
LP2967IMM-2626TR-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	1228.80/1,000		
LP2967IMM-2828CT-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	2.98	2.21	1.64
LP2967IMM-2828TR-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	1228.80/1,000		
LP2967IMM-2833CT-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	2.98	2.21	1.64
LP2967IMM-2833TR-ND	Dual Micropower 150mA LDO Regulator	8-MSOP	1228.80/1,000		
LP2967ITP-1825CT-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	3.10	2.36	1.80
LP2967ITP-1825TR-ND	Dual Micropower 150mA LDO Regulator	8-microSMD	412.30/250		
LP2967ITP-1833CT-ND	Dual Micropower 150mA LDO Regulator ***NEW!***	8-microSMD	3.10	2.36	1.80
LP2967ITP-1833TR-ND	Dual Micropower 150mA LDO Regulator ***NEW!***	8-microSMD	412.30/250		
LP2967ITP-2833CT-ND	Dual Micropower 150mA LDO Regulator*	8-microSMD	3.10	2.36	1.80
LP2967ITP-2833TR-ND	Dual Micropower 150mA LDO Regulator*	8-microSMD	412.30/250		
LP2975AIMM-12CT-ND	12V, MOSFET LDO Driver/Controller	8-MSOP	2.20	1.64	1.21
LP2975AIMM-12TR-ND	12V, MOSFET LDO Driver/Controller	8-MSOP	908.80/1,000		
LP2975AIMM-3.3CT-ND	3.3V, MOSFET LDO Driver/Controller	8-MSOP	2.20	1.64	1.21
LP2975AIMM-3.3TR-ND	3.3V, MOSFET LDO Driver/Controller	8-MSOP	908.80/1,000		
LP2975AIMM-5.0CT-ND	5V, MOSFET LDO Driver/Controller	8-MSOP	2.20	1.64	1.21
LP2975AIMM-5.0TR-ND	5V, MOSFET LDO Driver/Controller	8-MSOP	908.80/1,000		
LP2975IMM-12CT-ND	12V, MOSFET LDO Driver/Controller	8-MSOP	1.98	1.48	1.09
LP2975IMM-12TR-ND	12V, MOSFET LDO Driver/Controller	8-MSOP	819.20/1,000		
LP2975IMM-3.3CT-ND	3.3V, MOSFET LDO Driver/Controller	8-MSOP	1.98	1.48	1.09
LP2975IMM-3.3TR-ND	3.3V, MOSFET LDO Driver/Controller	8-MSOP	819.20/1,000		
LP2975IMM-5.0CT-ND	5V, MOSFET LDO Driver/Controller	8-MSOP	1.98	1.48	1.09
LP2975IMM-5.0TR-ND	5V, MOSFET LDO Driver/Controller	8-MSOP	819.20/1,000		
LP2980AIBP-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator	5-microSMD	1.09	.79	.57
LP2980AIBP-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator	5-microSMD	102.85/250		
LP2980AIBP-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator	5-microSMD	1.09	.79	.57
LP2980AIBP-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator	5-microSMD	102.85/250		
LP2980AIM5-1.8CT-ND	1.8V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	.84	.61	.44
LP2980AIM5-1.8TR-ND	1.8V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	261.80/1,000		
LP2980AIM5-2.5CT-ND	2.5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	.84	.61	.44
LP2980AIM5-2.5TR-ND	2.5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	261.80/1,000		
LP2980AIM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	.84	.61	.44
LP2980AIM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	261.80/1,000		
LP2980AIM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	.84	.61	.44
LP2980AIM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	261.80/1,000		
LP2980AIM5-4.0CT-ND	4V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	.84	.61	.44
LP2980AIM5-4.0TR-ND	4V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	261.80/1,000		
LP2980AIM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	.84	.61	.44
LP2980AIM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	261.80/1,000		
LP2980AITP-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator ***NEW!***	5-microSMD	1.09	.79	.57
LP2980AITP-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator ***NEW!***	5-microSMD	102.85/250		
LP2980IBP-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator	5-microSMD	1.09	.79	.57
LP2980IBP-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator	5-microSMD	102.85/250		
LP2980IBP-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator	5-microSMD	1.09	.79	.57
LP2980IBP-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator	5-microSMD	102.85/250		
LP2980IBPX-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator	5-microSMD	965.58/3,000		
LP2980IM5-ADJCT-ND	Adj., Micropower 50mA Ultra LDO Regulator	SOT-23-5	.84	.61	.44
LP2980IM5-ADJTR-ND	Adj., Micropower 50mA Ultra LDO Regulator	SOT-23-5	261.80/1,000		
LP2980IM5-1.8CT-ND	1.8V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	.84	.61	.44
LP2980IM5-1.8TR-ND	1.8V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	261.80/1,000		
LP2980IM5-2.5CT-ND	2.5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	.84	.61	.44
LP2980IM5-2.5TR-ND	2.5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	261.80/1,000		
LP2980IM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	.84	.61	.44
LP2980IM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	261.80/1,000		
LP2980IM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	.84	.61	.44
LP2980IM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	261.80/1,000		
LP2980IM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	.84	.61	.44
LP2980IM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	261.80/1,000		
LP2981AIBP-2.5CT-ND	2.5V, Micropower 100mA Ultra LDO Reg., A Grade	5-microSMD	1.13	.83	.60
LP2981AIBP-2.5TR-ND	2.5V, Micropower 100mA Ultra LDO Reg., A Grade	5-microSMD	112.50/250		
LP2981AIBP-3.2CT-ND	3.2V, Micropower 100mA Ultra LDO Reg., A Grade	5-microSMD	1.13	.83	.60
LP2981AIBP-3.2TR-ND	3.2V, Micropower 100mA Ultra LDO Reg., A Grade	5-microSMD	112.50/250		
LP2981AIBP-3.3CT-ND	3.3V, Micropower 100mA Ultra LDO Reg., A Grade	5-microSMD	1.13	.83	.60
LP2981AIBP-3.3TR-ND	3.3V, Micropower 100mA Ultra LDO Reg., A Grade	5-microSMD	112.50/250		
LP2981AIM5-2.5CT-ND	2.5V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-2.5TR-ND	2.5V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-2.7CT-ND	2.7V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-2.7TR-ND	2.7V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-2.8CT-ND	2.8V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-2.8TR-ND	2.8V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-2.9CT-ND	2.9V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-2.9TR-ND	2.9V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-3.0CT-ND	3V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-3.0TR-ND	3V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-3.1CT-ND	3.1V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-3.1TR-ND	3.1V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-3.2CT-ND	3.2V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-3.2TR-ND	3.2V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-3.3CT-ND	3.3V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-3.3TR-ND	3.3V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-3.6CT-ND	3.6V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-3.6TR-ND	3.6V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-3.8CT-ND	3.8V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-3.8TR-ND	3.8V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-4.0CT-ND	4V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-4.0TR-ND	4V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-4.7CT-ND	4.7V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-4.7TR-ND	4.7V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981AIM5-5.0CT-ND	5V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	1.13	.83	.60
LP2981AIM5-5.0TR-ND	5V, Micropower 100mA Ultra LDO Reg., A Grade	SOT-23-5	390.00/1,000		
LP2981IBP-2.5CT-ND	2.5V, Micropower 100mA Ultra LDO Regulator	5-microSMD	1.09	.80	.58
LP2981IBP-2.5TR-ND	2.5V, Micropower 100mA Ultra LDO Regulator	5-microSMD	108.75/250		
LP2981IBP-3.2CT-ND	3.2V, Micropower 100mA Ultra LDO Regulator	5-microSMD	1.09	.80	.58
LP2981IBP-3.2TR-ND	3.2V, Micropower 100mA Ultra LDO Regulator	5-microSMD	108.75/250		
LP2981IBP-3.3CT-ND	3.3V, Micropower 100mA Ultra LDO Regulator	5-microSMD	1.09	.80	.58
LP2981IBP-3.3TR-ND	3.3V, Micropower 100mA Ultra LDO Regulator	5-microSMD	108.75/250		
LP2981IM5-2.5CT-ND	2.5V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP2981IM5-2.5TR-ND	2.5V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2981IM5-2.7CT-ND	2.7V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-2.7TR-ND	2.7V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2981IM5-2.8CT-ND	2.8V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-2.8TR-ND	2.8V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2981IM5-2.9CT-ND	2.9V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-2.9TR-ND	2.9V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2981IM5-3.0CT-ND	3V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-3.0TR-ND	3V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2981IM5-3.1CT-ND	3.1V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-3.1TR-ND	3.1V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2981IM5-3.2CT-ND	3.2V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-3.2TR-ND	3.2V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2981IM5-3.6CT-ND	3.6V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-3.6TR-ND	3.6V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2981IM5-3.8CT-ND	3.8V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-3.8TR-ND	3.8V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2981IM5-4.0CT-ND	4V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-4.0TR-ND	4V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2981IM5-4.7CT-ND	4.7V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-4.7TR-ND	4.7V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2981IM5-5.0CT-ND	5V, Micropower 100mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2981IM5-5.0TR-ND	5V, Micropower 100mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2982AIBP-2.8CT-ND	2.8V, Micropower 50mA Ultra LDO Reg., A Grade	5-microSMD	1.13	.83	.60
LP2982AIBP-2.8TR-ND	2.8V, Micropower 50mA Ultra LDO Reg., A Grade	5-microSMD		390.00/1,000	
LP2982AIBP-3.0CT-ND	3V, Micropower 50mA Ultra LDO Reg., A Grade	5-microSMD	1.13	.83	.60
LP2982AIBP-3.0TR-ND	3V, Micropower 50mA Ultra LDO Reg., A Grade	5-microSMD		112.50/250	
LP2982AIM5-2.5CT-ND	2.5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.13	.83	.60
LP2982AIM5-2.5TR-ND	2.5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5		390.00/1,000	
LP2982AIM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.13	.83	.60
LP2982AIM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5		390.00/1,000	
LP2982AIM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.13	.83	.60
LP2982AIM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5		390.00/1,000	
LP2982AIM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5	1.13	.83	.60
LP2982AIM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator, A Grade	SOT-23-5		390.00/1,000	
LP2982IBP-2.8CT-ND	2.8V, Micropower 50mA Ultra LDO Regulator	5-microSMD	1.09	.80	.58
LP2982IBP-2.8TR-ND	2.8V, Micropower 50mA Ultra LDO Regulator	5-microSMD		108.75/250	
LP2982IBP-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator	5-microSMD	1.09	.80	.58
LP2982IBP-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator	5-microSMD		108.75/250	
LP2982IM5-2.5CT-ND	2.5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2982IM5-2.5TR-ND	2.5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2982IM5-3.0CT-ND	3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2982IM5-3.0TR-ND	3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2982IM5-3.3CT-ND	3.3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2982IM5-3.3TR-ND	3.3V, Micropower 50mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2982IM5-4.0CT-ND	4V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2982IM5-4.0TR-ND	4V, Micropower 50mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2982IM5-5.0CT-ND	5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5	1.09	.80	.58
LP2982IM5-5.0TR-ND	5V, Micropower 50mA Ultra LDO Regulator	SOT-23-5		377.00/1,000	
LP2983AIM5-0.9CT-ND	0.9V, Micropower 150mA Voltage Regulator	SOT-23-5	1.61	1.19	.86
LP2983AIM5-0.9TR-ND	0.9V, Micropower 150mA Voltage Regulator	SOT-23-5		559.00/1,000	
LP2983AIM5-1.0CT-ND	1.0V, Micropower 150mA Voltage Regulator	SOT-23-5	1.61	1.19	.86
LP2983AIM5-1.0TR-ND	1.0V, Micropower 150mA Voltage Regulator	SOT-23-5		559.00/1,000	
LP2983AIM5-1.2CT-ND	1.2V, Micropower 150mA Voltage Regulator	SOT-23-5	1.61	1.19	.86
LP2983AIM5-1.2TR-ND	1.2V, Micropower 150mA Voltage Regulator	SOT-23-5		559.00/1,000	
LP2983IM5-0.9CT-ND	0.9V, Micropower 150mA Voltage Regulator	SOT-23-5	1.58	1.16	.84
LP2983IM5-0.9TR-ND	0.9V, Micropower 150mA Voltage Regulator	SOT-23-5		546.00/1,000	
LP2983IM5-1.0CT-ND	1V, Micropower 150mA Voltage Regulator	SOT-23-5	1.58	1.16	.84
LP2983IM5-1.0TR-ND	1V, Micropower 150mA Voltage Regulator	SOT-23-5		546.00/1,000	
LP2983IM5-1.2CT-ND	1.2V, Micropower 150mA Voltage Regulator	SOT-23-5	1.58	1.16	.84
LP2983IM5-1.2TR-ND	1.2V, Micropower 150mA Voltage Regulator	SOT-23-5		546.00/1,000	
LP2985AIBL-1.8CT-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	microSMD	1.04	.75	.55
LP2985AIBL-1.8TR-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	microSMD		97.75/250	
LP2985AIBL-285CT-ND	2.85V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	1.04	.75	.55
LP2985AIBL-285TR-ND	2.85V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		97.75/250	
LP2985AIBL-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	1.04	.75	.55
LP2985AIBL-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		97.75/250	
LP2985AIBL-3.3CT-ND	3.3V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	1.04	.75	.55
LP2985AIBL-3.3TR-ND	3.3V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		97.75/250	
LP2985AIBP-2.4CT-ND	2.4V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-2.4TR-ND	2.4V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD		97.75/250	
LP2985AIBP-2.5CT-ND	2.5V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-2.5TR-ND	2.5V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD		97.75/250	
LP2985AIBP-2.8CT-ND	2.8V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-2.8TR-ND	2.8V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD		97.75/250	
LP2985AIBP-2.9CT-ND	2.9V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-2.9TR-ND	2.9V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD		97.75/250	
LP2985AIBP-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade	5-microSMD		97.75/250	
LP2985AIBP-3.3CT-ND	3.3V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-3.3TR-ND	3.3V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD		97.75/250	
LP2985AIBP-3.6CT-ND	3.6V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-3.6TR-ND	3.6V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD		97.75/250	
LP2985AIBP-4.0CT-ND	4V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-4.0TR-ND	4V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD		97.75/250	
LP2985AIBP-5.0CT-ND	5V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	1.04	.75	.55
LP2985AIBP-5.0TR-ND	5V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD		97.75/250	
LP2985AIM5-135CT-ND	1.35V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-135TR-ND	1.35V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-1.5CT-ND	1.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-1.5TR-ND	1.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-1.8CT-ND	1.8V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-1.8TR-ND	1.8V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-2.0CT-ND	2V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.0TR-ND	2V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-2.5CT-ND	2.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.5TR-ND	2.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-2.6CT-ND	2.6V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.6TR-ND	2.6V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-2.7CT-ND	2.7V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.7TR-ND	2.7V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-2.8CT-ND	2.8V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.8TR-ND	2.8V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-2.9CT-ND	2.9V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-2.9TR-ND	2.9V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-3.1CT-ND	3.1V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.1TR-ND	3.1V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-3.2CT-ND	3.2V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.2TR-ND	3.2V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-3.3CT-ND	3.3V, Micropower 150mA LN Ultra LDO Reg., A Grade.	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.3TR-ND	3.3V, Micropower 150mA LN Ultra LDO Reg., A Grade.	SOT-23-5		322.00/1,000	
LP2985AIM5-3.5CT-ND	3.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.5TR-ND	3.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-3.6CT-ND	3.6V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.6TR-ND	3.6V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-3.8CT-ND	3.8V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-3.8TR-ND	3.8V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-4.0CT-ND	4.0V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-4.0TR-ND	4.0V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-4.5CT-ND	4.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-4.5TR-ND	4.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-4.7CT-ND	4.7V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-4.7TR-ND	4.7V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-4.8CT-ND	4.8V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-4.8TR-ND	4.8V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-5.0CT-ND	5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-5.0TR-ND	5V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-5.3CT-ND	5.3V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-5.3TR-ND	5.3V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AIM5-6.1CT-ND	6.1V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5	1.04	.75	.55
LP2985AIM5-6.1TR-ND	6.1V, Micropower 150mA LN Ultra LDO Reg., A Grade	SOT-23-5		322.00/1,000	
LP2985AITP-1.8CT-ND	1.8V, Micropower 150mA LN Ultra LDOReg., A Grade	microSMD	1.04	.75	.55
LP2985AITP-1.8TR-ND	1.8V, Micropower 150mA LN Ultra LDO Reg., A Grade	microSMD		97.75/250	
LP2985AITP-2.5CT-ND	2.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	microSMD	1.04	.75	.55
LP2985AITP-2.5TR-ND	2.5V, Micropower 150mA LN Ultra LDO Reg., A Grade	microSMD		97.75/250	
LP2985AITP-2.7CT-ND	2.7V, Micropower 150mA LN Ultra LDO Reg., A Grade	microSMD	1.04	.75	.55
LP2985AITP-2.7TR-ND	2.7V, Micropower 150mA LN Ultra LDO Reg., A Grade	microSMD		97.75/250	
LP2985AITP-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade ***NEW!***	5-microSMD	1.04	.75	.55
LP2985AITP-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade ***NEW!***	5-microSMD		97.75/250	
LP2985IBL-1.8CT-ND	1.8V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	.99	.72	.52
LP2985IBL-1.8TR-ND	1.8V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD		93.50/250	
LP2985IBL-285CT-ND	2.85V, Micropower 150mA LN Ultra LDO Reg., A Grade	5-microSMD	.99	.72	.52
LP2985IBL-285TR-ND	2.85V, Micropower 150mA LN Ultra LDO Reg., A Grade.	5-microSMD		93.50/250	
LP2985IBL-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade	5-microSMD	.99	.72	.52
LP2985IBL-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Reg., A Grade	5-microSMD		93.50/250	
LP2985IBL-3.3CT-ND	3.3V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD	.99	.72	.52
LP2985IBL-3.3TR-ND	3.3V, Micropwr. 150mA LN Ultra LDO Reg., A Grade	5-microSMD		93.50/250	
LP2985IBP-1.8CT-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-1.8TR-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		93.50/250	
LP2985IBP-2.4CT-ND	2.4V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-2.4TR-ND	2.4V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		93.50/250	
LP2985IBP-2.5CT-ND	2.5V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-2.5TR-ND	2.5V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		93.50/250	
LP2985IBP-2.8CT-ND	2.8V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-2.8TR-ND	2.8V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		93.50/250	
LP2985IBP-2.9CT-ND	2.9V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-2.9TR-ND	2.9V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		93.50/250	
LP2985IBP-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		93.50/250	
LP2985IBP-3.3CT-ND	3.3V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-3.3TR-ND	3.3V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		93.50/250	
LP2985IBP-3.6CT-ND	3.6V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-3.6TR-ND	3.6V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		93.50/250	
LP2985IBP-4.0CT-ND	4V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-4.0TR-ND	4V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		93.50/250	
LP2985IBP-5.0CT-ND	5V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD	.99	.72	.52
LP2985IBP-5.0TR-ND	5V, Micropower 150mA LN Ultra LDO Regulator	5-microSMD		93.50/250	
LP2985IM5-135CT-ND	1.35V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-135TR-ND	1.35V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-1.5CT-ND	1.5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-1.5TR-ND	1.5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-1.8CT-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-1.8TR-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-2.0CT-ND	2.0V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-2.0TR-ND	2.0V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-2.5CT-ND	2.5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-2.5TR-ND	2.5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-2.6CT-ND	2.6V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-2.6TR-ND	2.6V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-2.7CT-ND	2.7V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-2.7TR-ND	2.7V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-2.8CT-ND	2.8V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-2.8TR-ND	2.8V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-2.9CT-ND	2.9V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-2.9TR-ND	2.9V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-3.0CT-ND	3V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-3.0TR-ND	3V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-3.1CT-ND	3.1V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-3.1TR-ND	3.1V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-3.2CT-ND	3.2V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-3.2TR-ND	3.2V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-3.3CT-ND	3.3V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-3.3TR-ND	3.3V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-3.5CT-ND	3.5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-3.5TR-ND	3.5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-3.6CT-ND	3.6V, Micropower 150mA LN Ultra LDO Regulator.	SOT-23-5	.99	.72	.52
LP2985IM5-3.6TR-ND	3.6V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-3.8CT-ND	3.8V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-3.8TR-ND	3.8V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	
LP2985IM5-4.0CT-ND	4V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-4.0TR-ND	4V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5		308.00/1,000	

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP2985IM5-4.5CT-ND	4.5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-4.5TR-ND	4.5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-4.7CT-ND	4.7V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-4.7TR-ND	4.7V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-4.8CT-ND	4.8V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-4.8TR-ND	4.8V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-5.0CT-ND	5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-5.0TR-ND	5V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-5.3CT-ND	5.3V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-5.3TR-ND	5.3V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985IM5-6.1CT-ND	6.1V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	.99	.72	.52
LP2985IM5-6.1TR-ND	6.1V, Micropower 150mA LN Ultra LDO Regulator	SOT-23-5	308.00/1,000		
LP2985ITP-1.8CT-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	microSMD	.99	.72	.52
LP2985ITP-1.8TR-ND	1.8V, Micropower 150mA LN Ultra LDO Regulator	microSMD	93.50/250		
LP2985ITP-2.5CT-ND	2.5V, Micropower 150mA LN Ultra LDO Regulator	microSMD	.99	.72	.52
LP2985ITP-2.5TR-ND	2.5V, Micropower 150mA LN Ultra LDO Regulator	microSMD	93.50/250		
LP2985ITP-2.7CT-ND	2.7V, Micropower 150mA LN Ultra LDO Regulator	microSMD	.99	.72	.52
LP2985ITP-2.7TR-ND	2.7V, Micropower 150mA LN Ultra LDO Regulator	microSMD	93.50/250		
LP2986AILD-3.0CT-ND	3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	2.36	1.75	1.30
LP2986AILD-3.0TR-ND	3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	972.80/1,000		
LP2986AILD-3.3CT-ND	3.3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	2.36	1.75	1.30
LP2986AILD-3.3TR-ND	3.3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	972.80/1,000		
LP2986AILD-5.0CT-ND	5V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	2.36	1.75	1.30
LP2986AILD-5.0TR-ND	5V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	972.80/1,000		
LP2986AIM-3.0-ND	3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-SOIC	2.11	1.57	1.16
LP2986AIM-3.3-ND	3.3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-SOIC	2.11	1.57	1.16
LP2986AIM-5.0-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-SOIC	2.11	1.57	1.16
LP2986AIMM-3.0CT-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-MSOP	2.33	1.73	1.28
LP2986AIMM-3.0TR-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-MSOP	960.00/1,000		
LP2986AIMM-3.3CT-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg .5%	8-MSOP	2.33	1.73	1.28
LP2986AIMM-3.3TR-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg .5%	8-MSOP	960.00/1,000		
LP2986AIMM-5.0CT-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-MSOP	2.33	1.73	1.28
LP2986AIMM-5.0TR-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg .5%	8-MSOP	960.00/1,000		
LP2986ILD-3.0CT-ND	3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	2.23	1.66	1.23
LP2986ILD-3.0TR-ND	3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	921.60/1,000		
LP2986ILD-3.3CT-ND	3.3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	2.23	1.66	1.23
LP2986ILD-3.3TR-ND	3.3V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	921.60/1,000		
LP2986ILD-5.0CT-ND	5V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	2.23	1.66	1.23
LP2986ILD-5.0TR-ND	5V, Micropower 200mA Ultra LDO Fixed or Adj. V. Reg.	8-LLP	921.60/1,000		
LP2986IM-3.0-ND	3V, Micropower 200mA Ultra LDO Regulator, 1%	8-SOIC	1.98	1.48	1.09
LP2986IM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Regulator, 1%	8-SOIC	1.98	1.48	1.09
LP2986IM-5.0-ND	5V, Micropower 200mA Ultra LDO Regulator, 1%	8-SOIC	1.98	1.48	1.09
LP2986IMM-3.0CT-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%	8-MSOP	2.20	1.64	1.21
LP2986IMM-3.0TR-ND	3V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%	8-MSOP	908.80/1,000		
LP2986IMM-3.3CT-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg, 1%	8-MSOP	2.20	1.64	1.21
LP2986IMM-3.3TR-ND	3.3V, Micropwr 200mA Ultra LDO Fix or Adj. V. Reg, 1%	8-MSOP	908.80/1,000		
LP2986IMM-5.0CT-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%	8-MSOP	2.20	1.64	1.21
LP2986IMM-5.0TR-ND	5V, Micropwr 200mA Ultra LDO Fixed or Adj. V. Reg, 1%	8-MSOP	908.80/1,000		
LP2987AILD-3.0CT-ND	3V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.36	1.75	1.30
LP2987AILD-3.0TR-ND	3V, Micropower 200mA LDO Voltage Regulator	8-LLP	972.80/1,000		
LP2987AILD-3.3CT-ND	3.3V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.36	1.75	1.30
LP2987AILD-3.3TR-ND	3.3V, Micropower 200mA LDO Voltage Regulator	8-LLP	972.80/1,000		
LP2987AILD-5.0CT-ND	5V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.36	1.75	1.30
LP2987AILD-5.0TR-ND	5V, Micropower 200mA LDO Voltage Regulator	8-LLP	972.80/1,000		
LP2987AIM-2.5-ND	2.5V, Micropower 200mA, Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.11	1.57	1.16
LP2987AIM-2.8-ND	2.8V, Micropower 200mA, Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.11	1.57	1.16
LP2987AIM-3.0-ND	3V, Micropower 200mA Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.11	1.57	1.16
LP2987AIM-3.2-ND	3.2V, Micropower 200mA, Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.11	1.57	1.16
LP2987AIM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.11	1.57	1.16
LP2987AIM-3.8-ND	3.8V, Micropower 200mA, Ultra LDO Voltage Regulator with Program Power-On Reset Delay, .5%	8-SOIC	2.11	1.57	1.16
LP2987AIM-5.0-ND	5.0V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.11	1.57	1.16
LP2987AIMM-2.5CT-ND	2.5V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.33	1.73	1.28
LP2987AIMM-2.5TR-ND	2.5V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	960.00/1,000		
LP2987AIMM-3.0CT-ND	3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.33	1.73	1.28
LP2987AIMM-3.0TR-ND	3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	960.00/1,000		
LP2987AIMM-3.2CT-ND	3.2V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.33	1.73	1.28
LP2987AIMM-3.2TR-ND	3.2V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	960.00/1,000		
LP2987AIMM-3.8CT-ND	3.8V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.33	1.73	1.28
LP2987AIMM-3.8TR-ND	3.8V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	960.00/1,000		
LP2987ILD-3.0CT-ND	3V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.23	1.66	1.23
LP2987ILD-3.0TR-ND	3V, Micropower 200mA LDO Voltage Regulator	8-LLP	921.60/1,000		
LP2987ILD-3.3CT-ND	3.3V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.23	1.66	1.23
LP2987ILD-3.3TR-ND	3.3V, Micropower 200mA LDO Voltage Regulator	8-LLP	921.60/1,000		
LP2987ILD-5.0CT-ND	5V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.23	1.66	1.23
LP2987ILD-5.0TR-ND	5V, Micropower 200mA LDO Voltage Regulator	8-LLP	921.60/1,000		
LP2987IM-2.5-ND	2.5V, Micropower 200mA, LDO Voltage Reg. 1% Accuracy	8-SOIC	1.98	1.48	1.09
LP2987IM-2.8-ND	2.8V, Micropower 200mA, LDO Voltage Reg. 1% Accuracy	8-SOIC	1.98	1.48	1.09
LP2987IM-3.0-ND	3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	1.98	1.48	1.09
LP2987IM-3.2-ND	3.2V, Micropower 200mA, Ultra LDO Reg., 1% Accuracy	8-SOIC	1.98	1.48	1.09
LP2987IM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	1.98	1.48	1.09
LP2987IM-3.8-ND	3.8V, Micropower 200mA, Ultra LDO Reg., 1% Accuracy	8-SOIC	1.98	1.48	1.09
LP2987IM-5.0-ND	5.0V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	1.98	1.48	1.09
LP2987IMM-2.5CT-ND	2.5V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.20	1.64	1.21
LP2987IMM-2.5TR-ND	2.5V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	908.80/1,000		
LP2987IMM-2.8CT-ND	2.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.20	1.64	1.21
LP2987IMM-2.8TR-ND	2.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	908.80/1,000		
LP2987IMM-3.0CT-ND	3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.20	1.64	1.21
LP2987IMM-3.0TR-ND	3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	908.80/1,000		
LP2987IMM-3.2CT-ND	3.2V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.20	1.64	1.21
LP2987IMM-3.2TR-ND	3.2V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	908.80/1,000		
LP2987IMM-3.8CT-ND	3.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.20	1.64	1.21
LP2987IMM-3.8TR-ND	3.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	908.80/1,000		
LP2987IMM-5.0CT-ND	5.0V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.20	1.64	1.21
LP2987IMM-5.0TR-ND	5.0V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	908.80/1,000		
LP2988AILD-2.5CT-ND	2.5V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.45	1.82	1.35
LP2988AILD-2.5TR-ND	2.5V, Micropower 200mA LDO Voltage Regulator	8-LLP	1011.20/1,000		
LP2988AILD-3.0CT-ND	3V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.45	1.82	1.35
LP2988AILD-3.0TR-ND	3V, Micropower 200mA LDO Voltage Regulator	8-LLP	1011.20/1,000		
LP2988AILD-3.3CT-ND	3.3V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.45	1.82	1.35
LP2988AILD-3.3TR-ND	3.3V, Micropower 200mA LDO Voltage Regulator	8-LLP	1011.20/1,000		
LP2988AILD-5.0CT-ND	5V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.45	1.82	1.35
LP2988AILD-5.0TR-ND	5V, Micropower 200mA LDO Voltage Regulator	8-LLP	1011.20/1,000		
LP2988AIM-2.5-ND	2.5V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.20	1.64	1.21
LP2988AIM-2.8-ND	2.8V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.20	1.64	1.21
LP2988AIM-3.0-ND	3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.20	1.64	1.21
LP2988AIM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.20	1.64	1.21
LP2988AIM-3.8-ND	3.8V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.20	1.64	1.21
LP2988AIM-5.0-ND	5V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-SOIC	2.20	1.64	1.21
LP2988AIMM-2.5CT-ND	2.5V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.36	1.75	1.30
LP2988AIMM-2.5TR-ND	2.5V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	972.80/1,000		
LP2988AIMM-2.7CT-ND	2.7V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.36	1.75	1.30
LP2988AIMM-2.7TR-ND	2.7V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	972.80/1,000		
LP2988AIMM-2.8CT-ND	2.8V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.36	1.75	1.30
LP2988AIMM-2.8TR-ND	2.8V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	972.80/1,000		
LP2988AIMM-3.0CT-ND	3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.36	1.75	1.30
LP2988AIMM-3.0TR-ND	3V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	972.80/1,000		
LP2988AIMM-3.2CT-ND	3.2V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.36	1.75	1.30
LP2988AIMM-3.2TR-ND	3.2V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	972.80/1,000		
LP2988AIMM-3.8CT-ND	3.8V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.36	1.75	1.30
LP2988AIMM-3.8TR-ND	3.8V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	972.80/1,000		
LP2988AIMM-5.7CT-ND	5.7V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	2.36	1.75	1.30
LP2988AIMM-5.7TR-ND	5.7V, Micropower 200mA Ultra LDO Reg., .5% Accuracy	8-MSOP	972.80/1,000		
LP2988ILD-2.5CT-ND	2.5V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.39	1.78	1.31
LP2988ILD-2.5TR-ND	2.5V, Micropower 200mA LDO Voltage Regulator	8-LLP	985.60/1,000		
LP2988ILD-3.0CT-ND	3V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.39	1.78	1.31
LP2988ILD-3.0TR-ND	3V, Micropower 200mA LDO Voltage Regulator	8-LLP	985.60/1,000		
LP2988ILD-3.3CT-ND	3.3V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.39	1.78	1.31
LP2988ILD-3.3TR-ND	3.3V, Micropower 200mA LDO Voltage Regulator	8-LLP	985.60/1,000		
LP2988ILD-5.0CT-ND	5V, Micropower 200mA LDO Voltage Regulator	8-LLP	2.39	1.78	1.31
LP2988ILD-5.0TR-ND	5V, Micropower 200mA LDO Voltage Regulator	8-LLP	985.60/1,000		
LP2988IM-2.5-ND	2.5V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IM-2.8-ND	2.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IM-3.0-ND	3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IM-3.2-ND	3.2V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IM-3.3-ND	3.3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IM-3.8-ND	3.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IM-5.0-ND	5.0V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-SOIC	2.14	1.59	1.18
LP2988IMM-2.5CT-ND	2.5V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.29	1.71	1.26
LP2988IMM-2.5TR-ND	2.5V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	947.20/1,000		
LP2988IMM-2.8CT-ND	2.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.29	1.71	1.26
LP2988IMM-2.8TR-ND	2.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	947.20/1,000		
LP2988IMM-3.0CT-ND	3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.29	1.71	1.26
LP2988IMM-3.0TR-ND	3V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	947.20/1,000		
LP2988IMM-3.2CT-ND	3.2V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.29	1.71	1.26
LP2988IMM-3.2TR-ND	3.2V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	947.20/1,000		
LP2988IMM-3.8CT-ND	3.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.29	1.71	1.26
LP2988IMM-3.8TR-ND	3.8V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	947.20/1,000		
LP2988IMM-5.7CT-ND	5.7V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	2.29	1.71	1.26
LP2988IMM-5.7TR-ND	5.7V, Micropower 200mA Ultra LDO Reg., 1% Accuracy	8-MSOP	947.20/1,000		
LP2989AILD-1.8CT-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-1.8TR-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-2.5CT-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-2.5TR-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-2.8CT-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-2.8TR-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-285CT-ND	2.85V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-285TR-ND	2.85V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-3.0CT-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-3.0TR-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-3.3CT-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-3.3TR-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-3.6CT-ND	3.6V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-3.6TR-ND	3.6V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-4.0CT-ND	4V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-4.0TR-ND	4V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AILD-5.0CT-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.79	2.07	1.53
LP2989AILD-5.0TR-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1152.00/1,000		
LP2989AIM-1.8-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-SOIC	2.54	1.89	1.40
LP2989AIM-2.5-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-SOIC	2.54	1.89	1.40
LP2989AIM-3.0-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-SOIC	2.54	1.89	1.40
LP2989AIM-3.3-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-SOIC	2.54	1.89	1.40
LP2989AIM-5.0-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-SOIC	2.54	1.89	1.40
LP2989AIMM-1.8CT-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.79	2.07	1.53
LP2989AIMM-1.8TR-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1152.00/1,000		
LP2989AIMM-2.5CT-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.79	2.07	1.53
LP2989AIMM-2.5TR-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1152.00/1,000		
LP2989AIMM-2.8CT-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.79	2.07	1.53
LP2989AIMM-2.8TR-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1152.00/1,000		

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP2989AIMM-3.0CT-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.79	2.07	1.53
LP2989AIMM-3.0TR-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1152.00/1,000		
LP2989AIMM-3.3CT-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.79	2.07	1.53
LP2989AIMM-3.3TR-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1152.00/1,000		
LP2989AIMM-5.0CT-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.79	2.07	1.53
LP2989AIMM-5.0TR-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1152.00/1,000		
LP2989ILD-1.8CT-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.64	1.96	1.45
LP2989ILD-1.8TR-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1088.00/1,000		
LP2989ILD-285CT-ND	2.85V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-285TR-ND	2.85V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989ILD-2.5CT-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-2.5TR-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989ILD-2.8CT-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-2.8TR-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989ILD-3.0CT-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-3.0TR-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989ILD-3.3CT-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-3.3TR-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989ILD-3.6CT-ND	3.6V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-3.6TR-ND	3.6V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989ILD-4.0CT-ND	4V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-4.0TR-ND	4V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989ILD-5.0CT-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	2.64	1.96	1.45
LP2989ILD-5.0TR-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-LLP	1088.00/1,000		
LP2989IM-1.8-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-SOIC	2.42	1.80	1.33
LP2989IM-2.5-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-SOIC	2.42	1.80	1.33
LP2989IM-3.0-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-SOIC	2.42	1.80	1.33
LP2989IM-3.3-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-SOIC	2.42	1.80	1.33
LP2989IM-5.0-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-SOIC	2.42	1.80	1.33
LP2989IMM-1.8CT-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.64	1.96	1.45
LP2989IMM-1.8TR-ND	1.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1088.00/1,000		
LP2989IMM-2.5CT-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.64	1.96	1.45
LP2989IMM-2.5TR-ND	2.5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1088.00/1,000		
LP2989IMM-2.8CT-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.64	1.96	1.45
LP2989IMM-2.8TR-ND	2.8V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1088.00/1,000		
LP2989IMM-3.0CT-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.64	1.96	1.45
LP2989IMM-3.0TR-ND	3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1088.00/1,000		
LP2989IMM-3.3CT-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.64	1.96	1.45
LP2989IMM-3.3TR-ND	3.3V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1088.00/1,000		
LP2989IMM-5.0CT-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	2.64	1.96	1.45
LP2989IMM-5.0TR-ND	5V, Micropower 500mA LN Ultra LDO Regulator for Applications with Output Volts	8-MSOP	1088.00/1,000		
LP2992AILD-1.5CT-ND	1.5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	1.44	1.06	.77
LP2992AILD-1.5TR-ND	1.5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	497.90/1,000		
LP2992AILD-1.8CT-ND	1.8V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	1.44	1.06	.77
LP2992AILD-1.8TR-ND	1.8V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	497.90/1,000		
LP2992AILD-2.5CT-ND	2.5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	1.44	1.06	.77
LP2992AILD-2.5TR-ND	2.5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	497.90/1,000		
LP2992AILD-3.3CT-ND	3.3V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	1.44	1.06	.77
LP2992AILD-3.3TR-ND	3.3V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	497.90/1,000		
LP2992AILD-5.0CT-ND	5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	1.44	1.06	.77
LP2992AILD-5.0TR-ND	5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	497.90/1,000		
LP2992AIM5-1.5CT-ND	1.5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.28	.94	.68
LP2992AIM5-1.5TR-ND	1.5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	442.00/1,000		
LP2992AIM5-1.8CT-ND	1.8V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.28	.94	.68
LP2992AIM5-1.8TR-ND	1.8V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	442.00/1,000		
LP2992AIM5-2.5CT-ND	2.5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.28	.94	.68
LP2992AIM5-2.5TR-ND	2.5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	442.00/1,000		
LP2992AIM5-3.0CT-ND	3V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.28	.94	.68
LP2992AIM5-3.0TR-ND	3V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	442.00/1,000		
LP2992AIM5-3.3CT-ND	3.3V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.28	.94	.68
LP2992AIM5-3.3TR-ND	3.3V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	442.00/1,000		
LP2992AIM5-5.0CT-ND	5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.28	.94	.68
LP2992AIM5-5.0TR-ND	5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	442.00/1,000		
LP2992ILD-1.5CT-ND	1.5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	1.40	1.03	.75
LP2992ILD-1.5TR-ND	1.5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	486.20/1,000		
LP2992ILD-1.8CT-ND	1.8V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	1.40	1.03	.75
LP2992ILD-1.8TR-ND	1.8V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	486.20/1,000		
LP2992ILD-2.5CT-ND	2.5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	1.40	1.03	.75
LP2992ILD-2.5TR-ND	2.5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	486.20/1,000		
LP2992ILD-3.3CT-ND	3.3V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	1.40	1.03	.75
LP2992ILD-3.3TR-ND	3.3V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	486.20/1,000		
LP2992ILD-5.0CT-ND	5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	1.40	1.03	.75
LP2992ILD-5.0TR-ND	5V, Micropower 250mA LN Ultra LDO Regulator	6-LLP	486.20/1,000		
LP2992IM5-1.8CT-ND	1.8V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.25	.92	.67
LP2992IM5-1.5CT-ND	1.5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.25	.92	.67
LP2992IM5-1.5TR-ND	1.5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	431.60/1,000		
LP2992IM5-1.8TR-ND	1.8V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	431.60/1,000		
LP2992IM5-2.5CT-ND	2.5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.25	.92	.67
LP2992IM5-2.5TR-ND	2.5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	431.60/1,000		
LP2992IM5-3.0CT-ND	3V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.25	.92	.67
LP2992IM5-3.0TR-ND	3V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	431.60/1,000		
LP2992IM5-3.3CT-ND	3.3V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.25	.92	.67
LP2992IM5-3.3TR-ND	3.3V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	431.60/1,000		
LP2992IM5-5.0CT-ND	5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	1.25	.92	.67
LP2992IM5-5.0TR-ND	5V, Micropower 250mA LN Ultra LDO Regulator	SOT-23-5	431.60/1,000		
LP2994M-ND	DDR Termination Regulator	8-SOIC	1.59	1.17	.85
LP2995LQCT-ND	DDR Termination Regulator	16-LLP	1.65	1.23	.91
LP2995LQTR-ND	DDR Termination Regulator	16-LLP	680.96/1,000		
LP2995M-ND	DDR Termination Regulator	8-SOIC	1.65	1.23	.91
LP2995MR-ND	DDR Termination Regulator	8-PSOP	1.65	1.23	.91
LP2996LQCT-ND	DDR Termination Regulator	16-LLP	1.83	1.36	1.01
LP2996LQTR-ND	DDR Termination Regulator	16-LLP	753.92/1,000		
LP2996M-ND	DDR Termination Regulator	8-SOIC	1.83	1.36	1.01
LP2996MR-ND	DDR Termination Regulator	8-PSOP	1.83	1.36	1.01
LP2997M-ND	DDR-II Termination Regulator	8-SOIC	1.83	1.36	1.01
LP2997MR-ND	DDR-II Termination Regulator	8-PSOP	1.83	1.36	1.01
LP3470IM5-2.63CT-ND	2.63V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.55	1.15	.85
LP3470IM5-2.63TR-ND	2.63V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	640.00/1,000		
LP3470IM5-2.93CT-ND	2.93V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	1.55	1.15	.85
LP3470IM5-2.93TR-ND	2.93V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	640.00/1,000		
LP3470IM5-3.08CT-ND	3.08V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	1.55	1.15	.85
LP3470IM5-3.08TR-ND	3.08V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	640.00/1,000		
LP3470IM5-3.65CT-ND	3.65V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	1.55	1.15	.85
LP3470IM5-3.65TR-ND	3.65V, Tiny Power-On Reset Circuit, Ind. Temp.	SOT-23-5	640.00/1,000		
LP3470IM5-4.00CT-ND	4V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	1.55	1.15	.85
LP3470IM5-4.00TR-ND	4V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	640.00/1,000		
LP3470IM5-4.38CT-ND	4.38V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	1.55	1.15	.85
LP3470IM5-4.38TR-ND	4.38V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	640.00/1,000		
LP3470IM5-4.63CT-ND	4.63V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	1.55	1.15	.85
LP3470IM5-4.63TR-ND	4.63V, Tiny Power-On Reset Circuit, Ind. Temp	SOT-23-5	640.00/1,000		
LP3470M5-2.63CT-ND	2.63V, Tiny Power-On Reset Circuit	SOT-23-5	1.73	1.27	.92
LP3470M5-2.63TR-ND	2.63V, Tiny Power-On Reset Circuit	SOT-23-5	598.00/1,000		
LP3470M5-2.83CT-ND	2.83V, Tiny Power-On Reset Circuit	SOT-23-5	1.73	1.27	.92
LP3470M5-2.83TR-ND	2.83V, Tiny Power-On Reset Circuit	SOT-23-5	598.00/1,000		
LP3470M5-2.93CT-ND	2.93V, Tiny Power-On Reset Circuit	SOT-23-5	1.73	1.27	.92
LP3470M5-2.93TR-ND	2.93V, Tiny Power-On Reset Circuit	SOT-23-5	598.00/1,000		
LP3470M5-3.08CT-ND	3.08V, Tiny Power-On Reset Circuit	SOT-23-5	1.73	1.27	.92
LP3470M5-3.08TR-ND	3.08V, Tiny Power-On Reset Circuit	SOT-23-5	598.00/1,000		
LP3470M5-3.65CT-ND	3.65V, Tiny Power-On Reset Circuit	SOT-23-5	1.73	1.27	.92
LP3470M5-3.65TR-ND	3.65V, Tiny Power-On Reset Circuit	SOT-23-5	598.00/1,000		
LP3470M5-4.00CT-ND	5V, Voltage Monitor with Reset	SOT-23-5	1.73	1.27	.92
LP3470M5-4.00TR-ND	5V, Voltage Monitor with Reset	SOT-23-5	598.00/1,000		
LP3470M5-4.38CT-ND	4.38V, Tiny Power-On Reset Circuit	SOT-23-5	1.73	1.27	.92
LP3470M5-4.38TR-ND	4.38V, Tiny Power-On Reset Circuit	SOT-23-5	598.00/1,000		
LP3470M5-4.63CT-ND	4.63V, Tiny Power-On Reset Circuit	SOT-23-5	1.73	1.27	.92
LP3470M5-4.63TR-ND	4.63V, Tiny Power-On Reset Circuit	SOT-23-5	598.00/1,000		
LP3852EMP-1.8CT-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3852EMP-1.8TR-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3852EMP-2.5CT-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3852EMP-2.5TR-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3852EMP-3.3CT-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3852EMP-3.3TR-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3852EMP-5.0CT-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3852EMP-5.0TR-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3852ES-1.8-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator	TO-263-5	4.48	3.41	2.60
LP3852ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.48	3.41	2.60
LP3852ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.48	3.41	2.60
LP3852ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.48	3.41	2.60
LP3852ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.48	3.41	2.60
LP3852ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.48	3.41	2.60
LP3852ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.48	3.41	2.60
LP3852ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.48	3.41	2.60
LP3853ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.65	4.47	3.58
LP3853ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.65	4.47	3.58
LP3853ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.65	4.47	3.58
LP3853ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.65	4.47	3.58
LP3853ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.65	4.47	3.58
LP3853ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.65	4.47	3.58
LP3853ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.65	4.47	3.58
LP3853ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.65	4.47	3.58
LP3855EMP-1.8CT-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3855EMP-1.8TR-ND	1.8V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3855EMP-2.5CT-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3855EMP-2.5TR-ND	2.5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3855EMP-3.3CT-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3855EMP-3.3TR-ND	3.3V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3855EMP-5.0CT-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3855EMP-5.0TR-ND	5V, 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3855EMP-ADJCT-ND	Adj., 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	4.15	3.16	2.41
LP3855EMP-ADJTR-ND	Adj., 1.5A, Fast Ultra LDO Linear Regulator	SOT-223-5	2091.60/1,000		
LP3855ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.48	3.41	2.60
LP3855ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.48	3.41	2.60
LP3855ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.48	3.41	2.60
LP3855ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.48	3.41	2.60
LP3855ES-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.48	3.41	2.60
LP3855ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.48	3.41	2.60
LP3855ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.48	3.41	2.60

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP3855ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.48	3.41	2.60
LP3855ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.48	3.41	2.60
LP3855ET-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.48	3.41	2.60
LP3856ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.65	4.47	3.58
LP3856ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.65	4.47	3.58
LP3856ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.65	4.47	3.58
LP3856ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.65	4.47	3.58
LP3856ES-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.65	4.47	3.58
LP3856ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.65	4.47	3.58
LP3856ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.65	4.47	3.58
LP3856ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.65	4.47	3.58
LP3856ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.65	4.47	3.58
LP3856ET-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.65	4.47	3.58
LP3871EMP-1.8CT-ND	1.8V, 0.8A, Fast Ultra LDO Linear Reg5500ulator	SOT-223-5	2.98	2.21	1.64
LP3871EMP-1.8TR-ND	1.8V, 0.8A, Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3871EMP-2.5CT-ND	2.5V, 0.8A, Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3871EMP-2.5TR-ND	2.5V, 0.8A, Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3871EMP-3.3CT-ND	3.3V, 0.8A, Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3871EMP-3.3TR-ND	3.3V, 0.8A, Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3871EMP-5.0CT-ND	5V, 0.8A, Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3871EMP-5.0TR-ND	5V, 0.8A, Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3871ES-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3871ES-2.5-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3871ES-3.3-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3871ES-5.0-ND	5V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3871ET-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3871ET-2.5-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3871ET-3.3-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3871ET-5.0-ND	5V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3872EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3872EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3872EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3872EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3872EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3872EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3872EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3872EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3872ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3872ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3872ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3872ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3872ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3872ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3872ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3872ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3873ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3873ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3873ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3873ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3873ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3873ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3873ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3873ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3874EMP-1.8CT-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3874EMP-1.8TR-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3874EMP-2.5CT-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3874EMP-2.5TR-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3874EMP-3.3CT-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3874EMP-3.3TR-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3874EMP-5.0CT-ND	5V, 0.8A Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3874EMP-5.0TR-ND	5V, 0.8A Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3874EMP-ADJCT-ND	Adj., 0.8A Fast Ultra LDO Linear Regulator	SOT-223-5	2.98	2.21	1.64
LP3874EMP-ADJTR-ND	Adj., 0.8A Fast Ultra LDO Linear Regulator	SOT-223-5	1228.80/1,000		
LP3874ES-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3874ES-2.5-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3874ES-3.3-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3874ES-5.0-ND	5V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3874ES-ADJ-ND	Adj., 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.73	2.08	1.59
LP3874ET-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3874ET-2.5-ND	2.5V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3874ET-3.3-ND	3.3V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3874ET-5.0-ND	5V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3874ET-ADJ-ND	Adj., 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.73	2.08	1.59
LP3875EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3875EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3875EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3875EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3875EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3875EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3875EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3875EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3875EMP-ADJCT-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.88	2.19	1.67
LP3875EMP-ADJTR-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1449.00/1,000		
LP3875ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3875ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3875ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3875ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3875ES-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.25	2.47	1.89
LP3875ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3875ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3875ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3875ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3875ET-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.25	2.47	1.89
LP3876ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3876ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3876ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3876ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3876ES-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.13	3.14	2.40
LP3876ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3876ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3876ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3876ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3876ET-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.13	3.14	2.40
LP3878MR-ADJ-ND	Adj., 800mA Micropower, Low Noise, Ceramic Stable Voltage Regulator*	8-PSOP	2.50	1.86	1.38

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP3878SD-ADJCT-ND	Adj., 800mA Micropower, Low Noise, Ceramic Stable Voltage Regulator*	8-LLP	2.98	2.27	1.73
LP3878SD-ADJTR-ND	Adj., 800mA Micropower, Low Noise, Ceramic Stable Voltage Regulator*	8-LLP	1499.40/1,000		
LP3881EMR-1.2-ND	1.2V, 0.8A Fast Response LDO Linear Regulator	8-PSOP	4.45	3.39	2.59
LP3881EMR-1.5-ND	1.5V, 0.8A Fast Response LDO Linear Regulator	8-PSOP	4.45	3.39	2.59
LP3881EMR-1.8-ND	1.8V, 0.8A Fast Response LDO Linear Regulator	8-PSOP	4.45	3.39	2.59
LP3881ES-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	4.45	3.39	2.59
LP3881ES-1.5-ND	1.5V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	4.45	3.39	2.59
LP3881ES-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	4.45	3.39	2.59
LP3881ET-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	4.45	3.39	2.59
LP3881ET-1.5-ND	1.5V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	4.45	3.39	2.59
LP3881ET-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	4.45	3.39	2.59
LP3882EMR-1.2-ND	1.2V, 1.5A Fast Response LDO Linear Regulator	8-PSOP	4.65	3.54	2.70
LP3882EMR-1.5-ND	1.5V, 1.5A Fast Response LDO Linear Regulator	8-PSOP	4.65	3.54	2.70
LP3882EMR-1.8-ND	1.8V, 1.5A Fast Response LDO Linear Regulator	8-PSOP	4.65	3.54	2.70
LP3882ES-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.65	3.54	2.70
LP3882ES-1.5-ND	1.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.65	3.54	2.70
LP3882ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	4.65	3.54	2.70
LP3882ET-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.65	3.54	2.70
LP3882ET-1.5-ND	1.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.65	3.54	2.70
LP3882ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	4.65	3.54	2.70
LP3883ES-1.2-ND	1.2V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.73	4.36	3.33
LP3883ES-1.5-ND	1.5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.73	4.36	3.33
LP3883ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	5.73	4.36	3.33
LP3883ET-1.2-ND	1.2V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.73	4.36	3.33
LP3883ET-1.5-ND	1.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.73	4.36	3.33
LP3883ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	5.73	4.36	3.33
LP3891EMR-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator*	8-PSOP	2.85	2.17	1.66
LP3891EMR-1.5-ND	1.5V, 0.8A Fast Ultra LDO Linear Regulator*	8-PSOP	2.85	2.17	1.66
LP3891EMR-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator*	8-PSOP	2.85	2.17	1.66
LP3891ES-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.85	2.17	1.66
LP3891ES-1.5-ND	1.5V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.85	2.17	1.66
LP3891ES-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator	TO-263-5	2.85	2.17	1.66
LP3891ET-1.2-ND	1.2V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.85	2.17	1.66
LP3891ET-1.5-ND	1.5V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.85	2.17	1.66
LP3891ET-1.8-ND	1.8V, 0.8A Fast Ultra LDO Linear Regulator	TO-220-5	2.85	2.17	1.66
LP3892EMR-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator*	8-PSOP	3.33	2.53	1.93
LP3892EMR-1.5-ND	1.5V, 1.5A Fast Ultra LDO Linear Regulator*	8-PSOP	3.33	2.53	1.93
LP3892EMR-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator*	8-PSOP	3.33	2.53	1.93
LP3892ES-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.33	2.53	1.93
LP3892ES-1.5-ND	1.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.33	2.53	1.93
LP3892ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	3.33	2.53	1.93
LP3892ET-1.2-ND	1.2V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.33	2.53	1.93
LP3892ET-1.5-ND	1.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.33	2.53	1.93
LP3892ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	3.33	2.53	1.93
LP3893ES-1.2-ND	1.2V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.15	3.16	2.41
LP3893ES-1.5-ND	1.5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.15	3.16	2.41
LP3893ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	4.15	3.16	2.41
LP3893ET-1.2-ND	1.2V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.15	3.16	2.41
LP3893ET-1.5-ND	1.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.15	3.16	2.41
LP3893ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	4.15	3.16	2.41
LP3927ILQ-AHCT-ND	Cellular/PCS System Power Management	28-LLP	4.85	3.69	2.82
LP3927ILQ-AHTR-ND	Cellular/PCS System Power Management	28-LLP	2444.40/1,000		
LP3927ILQ-AJCT-ND	Cellular/PCS System Power Management	28-LLP	4.85	3.69	2.82
LP3927ILQ-AJTR-ND	Cellular/PCS System Power Management	28-LLP	2444.40/1,000		
LP3928TL-1828CT-ND	2.85V, High Speed Bi-Directional Level Shifter	16-microSMD	3.45	2.63	2.01
LP3928TL-1828TR-ND	2.85V, High Speed Bi-Directional Level Shifter	16-microSMD	458.85/250		
LP3931ISQCT-ND	Dual RGB LED Driver with High Current Boost DC-DC Converter	24-LLP	3.80	2.89	2.21
LP3931ISQTR-ND	Dual RGB LED Driver with High Current Boost DC-DC Converter	24-LLP	1915.20/1,000		
LP3933SLCT-ND	Complete Lighting Management System	32-CSP	4.28	3.25	2.48
LP3933SLTR-ND	Complete Lighting Management System	32-CSP	2154.60/1,000		
LP3936SLCT-ND	Complete Lighting Management System	32-CSP	4.28	3.25	2.48
LP3936SLTR-ND	Complete Lighting Management System	32-CSP	2154.60/1,000		
LP3943ISQEV-ND	Evaluation Board for LP3943 Funlight Driver	—	181.50	—	—
LP3943ISQCT-ND	16-LED Fun Light Driver	24-LLP	3.80	2.89	2.21
LP3943ISQTR-ND	16-LED Fun Light Driver	24-LLP	1915.20/1,000		
LP3944ISQCT-ND	8-LED Fun Light Driver	24-LLP	3.58	2.72	2.08
LP3944ISQTR-ND	8-LED Fun Light Driver	24-LLP	1801.80/1,000		
LP3945LDCT-ND	Battery Charge Management System	14-LLP	2.85	2.17	1.66
LP3945LDTR-ND	Battery Charge Management System	14-LLP	1436.40/1,000		
LP3946LDCT-ND	Battery Charge Management System	14-LLP	2.73	2.08	1.59
LP3946LDTR-ND	Battery Charge Management System	14-LLP	1373.40/1,000		
LP3947ISD-09CT-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger	14-LLP	3.09	2.30	1.70
LP3947ISD-09TR-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger	14-LLP	1277.44/1,000		
LP3947ISD-51CT-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger	14-LLP	3.09	2.30	1.70
LP3947ISD-51TR-ND	USB/AC Adaptor, Single Cell Li-Ion Battery Charger	14-LLP	1277.44/1,000		
LP3961EMP-1.8CT-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.67	1.98	1.47
LP3961EMP-1.8TR-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1100.80/1,000		
LP3961EMP-2.5CT-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.67	1.98	1.47
LP3961EMP-2.5TR-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1100.80/1,000		
LP3961EMP-3.3CT-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.67	1.98	1.47
LP3961EMP-3.3TR-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1100.80/1,000		
LP3961EMP-5.0CT-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.67	1.98	1.47
LP3961EMP-5.0TR-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1100.80/1,000		
LP3961ES-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-263-5	3.04	2.26	1.67
LP3961ES-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	SOT-263-5	3.04	2.26	1.67
LP3961ES-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	SOT-263-5	3.04	2.26	1.67
LP3961ES-5.0-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-263-5	3.04	2.26	1.67
LP3961ET-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3961ET-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3961ET-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3961ET-5.0-ND	5V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3962EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.58	1.96	1.50
LP3962EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1297.80/1,000		
LP3962EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.58	1.96	1.50
LP3962EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1297.80/1,000		
LP3962EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.58	1.96	1.50
LP3962EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1297.80/1,000		
LP3962EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.58	1.96	1.50
LP3962EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1297.80/1,000		
LP3962ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69
LP3962ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69

* **RoHS Compliant**

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP3962ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69
LP3962ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69
LP3962ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	2.90	2.21	1.69
LP3962ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	2.90	2.21	1.69
LP3962ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	2.90	2.21	1.69
LP3962ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	2.90	2.21	1.69
LP3963ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	3.70	2.82	2.15
LP3963ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	3.70	2.82	2.15
LP3963ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	3.70	2.82	2.15
LP3963ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	3.70	2.82	2.15
LP3963ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3963ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3963ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3963ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3964EMP-1.8CT-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.67	1.98	1.47
LP3964EMP-1.8TR-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1100.80/1,000		
LP3964EMP-2.5CT-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.67	1.98	1.47
LP3964EMP-2.5TR-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1100.80/1,000		
LP3964EMP-3.3CT-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.67	1.98	1.47
LP3964EMP-3.3TR-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1100.80/1,000		
LP3964EMP-5.0CT-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.67	1.98	1.47
LP3964EMP-5.0TR-ND	5V, 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1100.80/1,000		
LP3964EMP-ADJCT-ND	Adj., 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	2.67	1.98	1.47
LP3964EMP-ADJTR-ND	Adj., 800mA Fast Ultra LDO Linear Regulator	SOT-223-5	1100.80/1,000		
LP3964ES-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	TO-263-5	3.04	2.26	1.67
LP3964ES-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	TO-263-5	3.04	2.26	1.67
LP3964ES-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	TO-263-5	3.04	2.26	1.67
LP3964ES-5.0-ND	5V, 800mA Fast Ultra LDO Linear Regulator	TO-263-5	3.04	2.26	1.67
LP3964ES-ADJ-ND	Adj., 800mA Fast Ultra LDO Linear Regulator	TO-263-5	3.04	2.26	1.67
LP3964ET-1.8-ND	1.8V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3964ET-2.5-ND	2.5V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3964ET-3.3-ND	3.3V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3964ET-5.0-ND	5V, 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3964ET-ADJ-ND	Adj., 800mA Fast Ultra LDO Linear Regulator	TO-220-5	3.04	2.26	1.67
LP3965EMP-ADJCT-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.58	1.96	1.50
LP3965EMP-ADJTR-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1297.80/1,000		
LP3965EMP-1.8CT-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.58	1.96	1.50
LP3965EMP-1.8TR-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1297.80/1,000		
LP3965EMP-2.5CT-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.58	1.96	1.50
LP3965EMP-2.5TR-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1297.80/1,000		
LP3965EMP-3.3CT-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.58	1.96	1.50
LP3965EMP-3.3TR-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1297.80/1,000		
LP3965EMP-5.0CT-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	2.58	1.96	1.50
LP3965EMP-5.0TR-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	SOT-223-5	1297.80/1,000		
LP3965ES-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69
LP3965ES-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69
LP3965ES-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69
LP3965ES-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69
LP3965ES-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	TO-263-5	2.90	2.21	1.69
LP3965ET-ADJ-ND	Adj., 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	2.90	2.21	1.69
LP3965ET-1.8-ND	1.8V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	2.90	2.21	1.69
LP3965ET-2.5-ND	2.5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	2.90	2.21	1.69
LP3965ET-3.3-ND	3.3V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	2.90	2.21	1.69
LP3965ET-5.0-ND	5V, 1.5A Fast Ultra LDO Linear Regulator	TO-220-5	2.90	2.21	1.69
LP3966ES-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator	TO-263-5	3.70	2.82	2.15
LP3966ES-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	3.70	2.82	2.15
LP3966ES-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	3.70	2.82	2.15
LP3966ES-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	3.70	2.82	2.15
LP3966ES-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-263-5	3.70	2.82	2.15
LP3966ET-ADJ-ND	Adj., 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3966ET-1.8-ND	1.8V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3966ET-2.5-ND	2.5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3966ET-3.3-ND	3.3V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3966ET-5.0-ND	5V, 3A Fast Ultra LDO Linear Regulator	TO-220-5	3.70	2.82	2.15
LP3970SQ-31CT-ND	Power Management Unit for Adv. Application Processor*	48-LLP	8.99	7.11	5.70
LP3970SQ-31TR-ND	Power Management Unit for Adv. Application Processor*	48-LLP	5307.20/1,000		
LP3970SQ-35CT-ND	Power Management Unit for Advanced Application Processor ***NEW!***	48-LLP	8.99	7.11	5.70
LP3970SQ-35TR-ND	Power Management Unit for Advanced Application Processor ***NEW!***	48-LLP	1358.90/250		
LP3970SQ-44CT-ND	Power Management Unit for Advanced Application Processor ***NEW!***	48-LLP	8.99	7.11	5.70
LP3970SQ-44TR-ND	Power Management Unit for Advanced Application Processor ***NEW!***	48-LLP	1358.90/250		
LP3970SQ-45CT-ND	Power Management Unit for Advanced Application Processor ***NEW!***	48-LLP	8.99	7.11	5.70
LP3970SQ-45TR-ND	Power Management Unit for Advanced Application Processor ***NEW!***	48-LLP	1358.90/250		
LP3981ILD-2.5CT-ND	2.5V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	1.21	.89	.65
LP3981ILD-2.5TR-ND	2.5V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	419.90/1,000		
LP3981ILD-2.7CT-ND	2.7V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	1.21	.89	.65
LP3981ILD-2.7TR-ND	2.7V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	419.90/1,000		
LP3981ILD-2.8CT-ND	2.8V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	1.21	.89	.65
LP3981ILD-2.8TR-ND	2.8V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	419.90/1,000		
LP3981ILD-2.83CT-ND	2.83V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	1.21	.89	.65
LP3981ILD-2.83TR-ND	2.83V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	419.90/1,000		
LP3981ILD-3.0CT-ND	3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	1.21	.89	.65
LP3981ILD-3.0TR-ND	3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	419.90/1,000		
LP3981ILD-3.03CT-ND	3.03V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	1.21	.89	.65
LP3981ILD-3.03TR-ND	3.03V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	419.90/1,000		
LP3981ILD-3.3CT-ND	3.3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	1.21	.89	.65
LP3981ILD-3.3TR-ND	3.3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	6-LLP	419.90/1,000		
LP3981IMM-2.5CT-ND	2.5V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	1.14	.84	.61
LP3981IMM-2.5TR-ND	2.5V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	395.20/1,000		
LP3981IMM-2.7CT-ND	2.7V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	1.14	.84	.61
LP3981IMM-2.7TR-ND	2.7V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	395.20/1,000		
LP3981IMM-2.8CT-ND	2.8V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	1.14	.84	.61
LP3981IMM-2.8TR-ND	2.8V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	395.20/1,000		
LP3981IMM-2.83CT-ND	2.83V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	1.14	.84	.61
LP3981IMM-2.83TR-ND	2.83V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	395.20/1,000		
LP3981IMM-3.0CT-ND	3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	1.14	.84	.61
LP3981IMM-3.0TR-ND	3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	395.20/1,000		
LP3981IMM-3.03CT-ND	3.03V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	1.14	.84	.61
LP3981IMM-3.03TR-ND	3.03V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	395.20/1,000		
LP3981IMM-3.3CT-ND	3.3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	1.14	.84	.61
LP3981IMM-3.3TR-ND	3.3V, Micropower 300mA Ultra LDO CMOS Voltage Reg.	8-MSOP	395.20/1,000		
LP3982ILD-ADJCT-ND	Adj., Micropower 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP	1.08	.80	.58
LP3982ILD-ADJTR-ND	Adj., Micropower 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP	375.70/1,000		
LP3982ILD-1.8CT-ND	1.8V, Micropower 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP	1.08	.80	.58
LP3982ILD-1.8TR-ND	1.8V, Micropower 300mA Ultra LDO Low Noise CMOS Reg.	8-LLP	375.70/1,000		
LP3982ILD-2.5CT-ND	2.5V, Micropower 300mA Ultra LDO Low Noise CMOS Reg	8-LLP	1.08	.80	.58
LP3982ILD-2.5TR-ND	2.5V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-LLP	375.70/1,000		
LP3982ILD-2.77CT-ND	2.77V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-LLP	1.08	.80	.58
LP3982ILD-2.77TR-ND	2.77V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-LLP	375.70/1,000		
LP3982ILD-2.82CT-ND	2.82V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-LLP	1.08	.80	.58
LP3982ILD-2.82TR-ND	2.82V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-LLP	375.70/1,000		
LP3982ILD-3.0CT-ND	3V, Micropower 300mA Ultra LDO Low Noise CMOS Reg	8-LLP	1.08	.80	.58
LP3982ILD-3.0TR-ND	3V, Micropower 300mA Ultra LDO Low Noise CMOS Reg	8-LLP	375.70/1,000		
LP3982ILD-3.3CT-ND	3.3V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-LLP	1.08	.80	.58
LP3982ILD-3.3TR-ND	3.3V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-LLP	375.70/1,000		
LP3982IMM-ADJCT-ND	Adj., Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-MSOP	1.05	.78	.57
LP3982IMM-ADJTR-ND	Adj., Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-MSOP	365.30/1,000		
LP3982IMM-1.8CT-ND	1.8V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-MSOP	1.05	.78	.57
LP3982IMM-1.8TR-ND	1.8V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-MSOP	365.30/1,000		
LP3982IMM-2.5CT-ND	2.5V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-MSOP	1.05	.78	.57
LP3982IMM-2.5TR-ND	2.5V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-MSOP	365.30/1,000		
LP3982IMM-2.77CT-ND	2.77V, Micropower 300mA Ultra LDO Low Noise CMOS Regulator	8-MSOP	1.05	.78	.57
LP3982IMM-2.77TR-ND	2.77V, Micropower 300mA Ultra LDO Low Noise CMOS Regulator	8-MSOP	365.30/1,000		
LP3982IMM-2.82CT-ND	2.82V, Micropower 300mA Ultra LDO Low Noise CMOS Regulator	8-MSOP	1.05	.78	.57
LP3982IMM-2.82TR-ND	2.82V, Micropower 300mA Ultra LDO Low Noise CMOS Regulator	8-MSOP	365.30/1,000		
LP3982IMM-3.0CT-ND	3V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-MSOP	1.05	.78	.57
LP3982IMM-3.0TR-ND	3V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-MSOP	365.30/1,000		
LP3982IMM-3.3CT-ND	3.3V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-MSOP	1.05	.78	.57
LP3982IMM-3.3TR-ND	3.3V, Micropwr 300mA Ultra LDO Low Noise CMOS Reg	8-MSOP	365.30/1,000		
LP3983ITL-1.6CT-ND	1.6V, Micropower 5mA CMOS Voltage Regulator	5-microSMD	1.18	.87	.63
LP3983ITL-1.6TR-ND	1.6V, Micropower 5mA CMOS Voltage Regulator	5-microSMD	117.75/250		
LP3983ITL-1.8CT-ND	1.8V, Micropower 5mA CMOS Voltage Regulator	5-microSMD	1.18	.87	.63
LP3983ITL-1.8TR-ND	1.8V, Micropower 5mA CMOS Voltage Regulator	5-microSMD	117.75/250		
LP3983ITL-2.5CT-ND	2.5V, Micropower 5mA CMOS Voltage Regulator	5-microSMD	1.18	.87	.63
LP3983ITL-2.5TR-ND	2.5V, Micropower 5mA CMOS Voltage Regulator	5-microSMD	117.75/250		
LP3984IBP-1.5CT-ND	1.5V, Micropower 150mA Ultra LDO CMOS Volt. Reg	4-microSMD	1.14	.84	.61
LP3984IBP-1.5TR-ND	1.5V, Micropower 150mA Ultra LDO CMOS Volt. Reg	4-microSMD	114.00/250		
LP3984IBP-1.8CT-ND	1.8V, Micropower 150mA Ultra LDO CMOS Volt. Reg	4-microSMD	1.14	.84	.61
LP3984IBP-1.8TR-ND	1.8V, Micropower 150mA Ultra LDO CMOS Volt. Reg	4-microSMD	114.00/250		
LP3984IBP-2.0CT-ND	2V, Micropower 150mA Ultra LDO CMOS Volt. Reg	4-microSMD	1.14	.84	.61
LP3984IBP-2.0TR-ND	2V, Micropower 150mA Ultra LDO CMOS Volt. Reg	4-microSMD	114.00/250		
LP3984IBP-3.1CT-ND	3.1V, Micropwr 150mA Ultra LDO CMOS Volt. Reg	4-microSMD	1.14	.84	.61
LP3984IBP-3.1TR-ND	3.1V, Micropwr 150mA Ultra LDO CMOS Volt. Reg	4-microSMD	114.00/250		
LP3984IMF-1.5CT-ND	1.5V, Micropower 150mA Ultra LDO CMOS Volt. Reg.	SOT-23-5	1.07	.79	.57
LP3984IMF-1.5TR-ND	1.5V, Micropower 150mA Ultra LDO CMOS Volt. Reg.	SOT-23-5	370.50/1,000		
LP3984IMF-1.8CT-ND	1.8V, Micropower 150mA Ultra LDO CMOS Volt. Reg.	SOT-23-5	1.07	.79	.57
LP3984IMF-1.8TR-ND	1.8V, Micropower 150mA Ultra LDO CMOS Volt. Reg.	SOT-23-5	370.50/1,000		
LP3984IMF-2.0CT-ND	2V, Micropower 150mA Ultra LDO CMOS Volt. Reg.	SOT-23-5	1.07	.79	.57
LP3984IMF-2.0TR-ND	2V, Micropower 150mA Ultra LDO CMOS Volt. Reg.	SOT-23-5	370.50/1,000		
LP3984IMF-3.1CT-ND	3.1V, Micropower 150mA Ultra LDO CMOS Volt. Reg.	SOT-23-5	1.07	.79	.57
LP3984IMF-3.1TR-ND	3.1V, Micropower 150mA Ultra LDO CMOS Volt. Reg.	SOT-23-5	370.50/1,000		
LP3984ITP-1.8CT-ND	1.8V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-microSMD	1.02	.75	.55
LP3984ITP-1.8TR-ND	1.8V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-microSMD	102.00/250		
LP3984ITP-2.9CT-ND	2.9V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-microSMD	1.14	.84	.61
LP3984ITP-2.9TR-ND	2.9V, Micropower 150mA Ultra LDO CMOS Voltage Regulator	4-microSMD	114.00/250		
LP3985IBL-2.5CT-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-2.5TR-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	95.63/250		
LP3985IBL-2.6CT-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-2.6TR-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	95.63/250		
LP3985IBL-2.7CT-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-2.7TR-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	95.63/250		
LP3985IBL-2.8CT-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-2.8TR-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	95.63/250		
LP3985IBL-285CT-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-285TR-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	95.63/250		
LP3985IBL-2.9CT-ND	2.9V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-2.9TR-ND	2.9V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	95.63/250		
LP3985IBL-3.0CT-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-3.0TR-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	95.63/250		
LP3985IBL-3.1CT-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-3.1TR-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	95.63/250		
LP3985IBL-3.2CT-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-3.2TR-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	95.63/250		
LP3985IBL-3.3CT-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-3.3TR-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	95.63/250		
LP3985IBL-4.8CT-ND	4.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP3985IBL-4.8TR-ND	4.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBL-5.0CT-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBL-5.0TR-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-2.5CT-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-2.5TR-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-2.6CT-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-2.6TR-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-2.7CT-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-2.7TR-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-2.8CT-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-2.8TR-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-285CT-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-285TR-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-2.9CT-ND	2.9V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-2.9TR-ND	2.9V, Micropower 150mA Lo5w Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-3.0CT-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-3.0TR-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-3.1CT-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-3.1TR-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-3.2CT-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-3.2TR-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-3.3CT-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-3.3TR-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-4.7CT-ND	4.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-4.7TR-ND	4.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBP-5.0CT-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBP-5.0TR-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985IBPX-285CT-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBPX-285TR-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		975.38/3,000	
LP3985IBPX-3.1CT-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985IBPX-3.1TR-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		975.38/3,000	
LP3985IM5-2.5CT-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-2.5TR-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-2.6CT-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-2.6TR-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-2.7CT-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-2.7TR-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-2.8CT-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-2.8TR-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-285CT-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-285TR-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-2.9CT-ND	2.9V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-2.9TR-ND	2.9V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-3.0CT-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-3.0TR-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-3.1CT-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-3.1TR-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-3.2CT-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-3.2TR-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-3.3CT-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-3.3TR-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-4.7CT-ND	4.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-4.7TR-ND	4.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985IM5-5.0CT-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5	1.04	.75	.55
LP3985IM5-5.0TR-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	SOT-23-5		322.00/1,000	
LP3985ITL-2.5CT-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-2.5TR-ND	2.5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-2.6CT-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-2.6TR-ND	2.6V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-2.7CT-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-2.7TR-ND	2.7V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-2.8CT-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-2.8TR-ND	2.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-285CT-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-285TR-ND	2.85V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-2.9CT-ND	2.9V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-2.9TR-ND	2.9V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-3.0CT-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-3.0TR-ND	3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-3.1CT-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-3.1TR-ND	3.1V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-3.2CT-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-3.2TR-ND	3.2V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-3.3CT-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-3.3TR-ND	3.3V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-4.8CT-ND	4.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-4.8TR-ND	4.8V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3985ITL-5.0CT-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD	.96	.71	.51
LP3985ITL-5.0TR-ND	5V, Micropower 150mA Low Noise Ultra LDO CMOS Voltage Regulator	5-microSMD		95.63/250	
LP3986BL-2518CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986BL-2518TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986BL-2525CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986BL-2525TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986BL-2528CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986BL-2528TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986BL-2626CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986BL-2626TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986BL-2828CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986BL-2828TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986BL-285285CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986BL-285285TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986BL-2929CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986BL-2929TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986BL-3028CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986BL-3028TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986BL-3030CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986BL-3030TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986BL-3131CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986BL-3131TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986BL-3133CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986BL-3133TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986BL-3333CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97

(Continued)

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LINEAR SERIES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP3986BL-3333TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-2518CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-2518TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-2525CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-2525TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-2528CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-2528TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-2626CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-2626TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-2828CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-2828TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-285285CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-285285TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-2929CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-2929TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-3028CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-3028TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-3030CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-3030TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-3131CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-3131TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-3133CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-3133TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3986TL-3333CT-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD	1.82	1.34	.97
LP3986TL-3333TR-ND	Dual Micropower 150mA Ultra LDO CMOS Voltage Regulator	8-microSMD		181.88/250	
LP3987IBL-2.6CT-ND	2.6V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD	1.14	.84	.61
LP3987IBL-2.6TR-ND	2.6V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD		114.00/250	
LP3987IBL-2.8CT-ND	2.8V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD	1.14	.84	.61
LP3987IBL-2.8TR-ND	2.8V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD		114.00/250	
LP3987IBL-2.85CT-ND	2.85V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD	1.14	.84	.61
LP3987IBL-2.85TR-ND	2.85V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD		114.00/250	
LP3987ITL-2.5CT-ND	2.5V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD	1.14	.84	.61
LP3987ITL-2.5TR-ND	2.5V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD		114.00/250	
LP3987ITL-2.6CT-ND	2.6V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD	1.14	.84	.61
LP3987ITL-2.6TR-ND	2.6V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD		114.00/250	
LP3987ITL-2.8CT-ND	2.8V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD	1.14	.84	.61
LP3987ITL-2.8TR-ND	2.8V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD		114.00/250	
LP3987ITL-2.85CT-ND	2.85V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD	1.14	.84	.61
LP3987ITL-2.85TR-ND	2.85V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD		114.00/250	
LP3987ITL-3.0CT-ND	3V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD	1.14	.84	.61
LP3987ITL-3.0TR-ND	3V, 150mA Ultra LDO Voltage Reg. with Sleep	5-microSMD		114.00/250	
LP3988IMF-2.5CT-ND	2.5V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5	.96	.71	.52
LP3988IMF-2.5TR-ND	2.5V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5		334.10/1,000	
LP3988IMF-2.6CT-ND	2.6V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5	.96	.71	.52
LP3988IMF-2.6TR-ND	2.6V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5		334.10/1,000	
LP3988IMF-2.85CT-ND	2.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5	.96	.71	.52
LP3988IMF-2.85TR-ND	2.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5		334.10/1,000	
LP3988IMF-3.0CT-ND	3V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5	.96	.71	.52
LP3988IMF-3.0TR-ND	3V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5		334.10/1,000	
LP3988IMF-3.3CT-ND	3.3V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5	.96	.71	.52
LP3988IMF-3.3TR-ND	3.3V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	SOT-23-5		334.10/1,000	
LP3988ITL-1.85CT-ND	1.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD	1.07	.79	.57
LP3988ITL-1.85TR-ND	1.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD		106.88/250	
LP3988ITL-2.6CT-ND	2.6V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD	1.07	.79	.57
LP3988ITL-2.6TR-ND	2.6V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD		106.88/250	
LP3988ITL-2.85CT-ND	2.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD	1.07	.79	.57
LP3988ITL-2.85TR-ND	2.85V, Micropower 150mA Ultra LDO CMOS Voltage Regulator with Power Good	5-microSMD		106.88/250	

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LP3990MF-1.2CT-ND	1.2V, 150mA Linear Voltage Regulator*	SOT-23-5	1.07	.79	.57
LP3990MF-1.2TR-ND	1.2V, 150mA Linear Voltage Regulator*	SOT-23-5		370.50/1,000	
LP3990MF-1.5CT-ND	1.5V, 150mA Linear Voltage Regulator*	SOT-23-5	1.07	.79	.57
LP3990MF-1.5TR-ND	1.5V, 150mA Linear Voltage Regulator*	SOT-23-5		370.50/1,000	
LP3990MF-1.8CT-ND	1.8V, 150mA Linear Voltage Regulator*	SOT-23-5	1.07	.79	.57
LP3990MF-1.8TR-ND	1.8V, 150mA Linear Voltage Regulator*	SOT-23-5		370.50/1,000	
LP3990MF-2.5CT-ND	2.5V, 150mA Linear Voltage Regulator*	SOT-23-5	1.07	.79	.57
LP3990MF-2.5TR-ND	2.5V, 150mA Linear Voltage Regulator*	SOT-23-5		370.50/1,000	
LP3990MF-2.8CT-ND	2.8V, 150mA Linear Voltage Regulator*	SOT-23-5	1.07	.79	.57
LP3990MF-2.8TR-ND	2.8V, 150mA Linear Voltage Regulator*	SOT-23-5		370.50/1,000	
LP3990MF-3.3CT-ND	3.3V, 150mA Linear Voltage Regulator ***NEW!***	SOT-23-5	1.07	.79	.57
LP3990MF-3.3TR-ND	3.3V, 150mA Linear Voltage Regulator ***NEW!***	SOT-23-5		370.50/1,000	
LP3990SD-0.8CT-ND	0.8V, 150mA Linear Voltage Regulator	6-LLP	1.12	.83	.60
LP3990SD-0.8TR-ND	0.8V, 150mA Linear Voltage Regulator	6-LLP		388.70/1,000	
LP3990SD-1.2CT-ND	1.2V, 150mA Linear Voltage Regulator*	6-LLP	1.12	.83	.60
LP3990SD-1.2TR-ND	1.2V, 150mA Linear Voltage Regulator*	6-LLP		388.70/1,000	
LP3990SD-1.35CT-ND	1.35V, 150mA Linear Voltage Regulator*	6-LLP	1.12	.83	.60
LP3990SD-1.35TR-ND	1.35V, 150mA Linear Voltage Regulator*	6-LLP		388.70/1,000	
LP3990SD-1.5CT-ND	1.5V, 150mA Linear Voltage Regulator	6-LLP	1.12	.83	.60
LP3990SD-1.5TR-ND	1.5V, 150mA Linear Voltage Regulator	6-LLP		388.70/1,000	
LP3990SD-1.8CT-ND	1.8V, 150mA Linear Voltage Regulator	6-LLP	1.12	.83	.60
LP3990SD-1.8TR-ND	1.8V, 150mA Linear Voltage Regulator	6-LLP		388.70/1,000	
LP3990SD-2.5CT-ND	2.5V, 150mA Linear Voltage Regulator	6-LLP	1.12	.83	.60
LP3990SD-2.5TR-ND	2.5V, 150mA Linear Voltage Regulator	6-LLP		388.70/1,000	
LP3990SD-2.8CT-ND	2.8V, 150mA Linear Voltage Regulator	6-LLP	1.12	.83	.60
LP3990SD-2.8TR-ND	2.8V, 150mA Linear Voltage Regulator	6-LLP		388.70/1,000	
LP3990TL-0.8CT-ND	0.8V, 150mA Linear Voltage Regulator	4-microSMD	1.07	.79	.57
LP3990TL-0.8TR-ND	0.8V, 150mA Linear Voltage Regulator	4-microSMD		106.88/250	
LP3990TL-1.2CT-ND	1.2V, 150mA Linear Voltage Regulator	4-microSMD	1.07	.79	.57
LP3990TL-1.2TR-ND	1.2V, 150mA Linear Voltage Regulator	4-microSMD		106.88/250	
LP3990TL-1.35CT-ND	1.35V, 150mA Linear Voltage Regulator	4-microSMD	1.07	.79	.57
LP3990TL-1.35TR-ND	1.35V, 150mA Linear Voltage Regulator	4-microSMD		106.88/250	
LP3990TL-1.5CT-ND	1.5V, 150mA Linear Voltage Regulator	4-microSMD	1.07	.79	.57
LP3990TL-1.5TR-ND	1.5V, 150mA Linear Voltage Regulator	4-microSMD		106.88/250	
LP3990TL-1.8CT-ND	1.8V, 150mA Linear Voltage Regulator	4-microSMD	1.07	.79	.57
LP3990TL-1.8TR-ND	1.8V, 150mA Linear Voltage Regulator	4-microSMD		106.88/250	
LP3990TL-2.5CT-ND	2.5V, 150mA Linear Voltage Regulator ***NEW!***	4-microSMD	1.07	.79	.57
LP3990TL-2.5TR-ND	2.5V, 150mA Linear Voltage Regulator ***NEW!***	4-microSMD		106.88/250	
LP3990TL-2.8CT-ND	2.8V, 150mA Linear Voltage Regulator	4-microSMD	1.07	.79	.57
LP3990TL-2.8TR-ND	2.8V, 150mA Linear Voltage Regulator	4-microSMD		106.88/250	
LP3992IMF-1.5CT-ND	1.5V, Voltage Regulator with Shutdown	SOT-23-5	1.25	.92	.67
LP3992IMF-1.5TR-ND	1.5V, Voltage Regulator with Shutdown	SOT-23-5		432.90/1,000	
LP3995ILD-1.5CT-ND	1.5V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP	1.25	.92	.67
LP3995ILD-1.5TR-ND	1.5V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP		432.90/1,000	
LP3995ILD-1.6CT-ND	1.6V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP	1.25	.92	.67
LP3995ILD-1.6TR-ND	1.6V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP		432.90/1,000	
LP3995ILD-1.8CT-ND	1.8V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP	1.25	.92	.67
LP3995ILD-1.8TR-ND	1.8V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP		432.90/1,000	
LP3995ILD-2.8CT-ND	2.8V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP	1.25	.92	.67
LP3995ILD-2.8TR-ND	2.8V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP		432.90/1,000	
LP3995ILD-3.0CT-ND	3V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP	1.25	.92	.67
LP3995ILD-3.0TR-ND	3V, Micropower 150mA CMOS Voltage Reg. with SD	6-LLP		432.90/1,000	
LP3995ITL-1.5CT-ND	1.5V, Micropower 150mA CMOS Volt. Reg. with SD	5-microSMD	1.07	.79	.57
LP3995ITL-1.5TR-ND	1.5V, Micropower 150mA CMOS Volt. Reg. with SD	5-microSMD		106.88/250	
LP3995ITL-1.6CT-ND	1.6V, Micropower 150mA CMOS Volt. Reg. with SD	5-microSMD	1.07	.79	.57
LP3995ITL-1.6TR-ND	1.6V, Micropower 150mA CMOS Volt. Reg. with SD	5-microSMD		106.88/250	
LP3995ITL-1.8CT-ND	1.8V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD	1.07	.79	.57
LP3995ITL-1.8TR-ND	1.8V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD		106.88/250	
LP3995ITL-1.9CT-ND	1.9V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD	1.07	.79	.57
LP3995ITL-1.9TR-ND	1.9V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD		106.88/250	
LP3995ITL-2.1CT-ND	2.1V, Micropower 150mA CMOS Volt. Reg. with SD	5-microSMD	1.07	.79	.57
LP3995ITL-2.1TR-ND	2.1V, Micropower 150mA CMOS Volt. Reg. with SD	5-microSMD		106.88/250	
LP3995ITL-2.5CT-ND	2.5V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD	1.07	.79	.57
LP3995ITL-2.5TR-ND	2.5V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD		106.88/250	
LP3995ITL-2.8CT-ND	2.8V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD	1.07	.79	.57
LP3995ITL-2.8TR-ND	2.8V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	microSMD		106.88/250	
LP3995ITL-2.85CT-ND	2.85V, Micropower 150mA CMOS Volt. Reg. with Shutdown	5-microSMD	1.07	.79	.57
LP3995ITL-2.85TR-ND	2.85V, Micropower 150mA CMOS Volt. Reg. with Shutdown	5-microSMD		106.88/250	
LP3995ITL-3.0CT-ND	3V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	5-microSMD	1.07	.79	.57
LP3995ITL-3.0TR-ND	3V, Micropwr 150mA CMOS Volt. Reg. w/Shutdown	5-microSMD		106.88/250	
LP3999ITL-1.5CT-ND	1.5V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-1.5TR-ND	1.5V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP3999ITL-1.8CT-ND	1.8V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-1.8TR-ND	1.8V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP3999ITL-1875CT-ND	1.875V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-1875TR-ND	1.875V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP3999ITL-2.4CT-ND	2.4V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-2.4TR-ND	2.4V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP3999ITL-2.5CT-ND	2.5V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-2.5TR-ND	2.5V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP3999ITL-2.8CT-ND	2.8V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-2.8TR-ND	2.8V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP3999ITL-3.3CT-ND	3.3V, 150mA Voltage Regulator with Shutdown	5-microSMD	1.07	.79	.57
LP3999ITL-3.3TR-ND	3.3V, 150mA Voltage Regulator with Shutdown	5-microSMD		106.88/250	
LP5900TL-1.5CT-ND	1.5V, 100mA Linear Regulator ***NEW!***	4-microSMD	1.92	1.43	1.06
LP5900TL-1.5TR-ND	1.5V, 100mA Linear Regulator ***NEW!***	4-microSMD		209.25/250	
LP5900TL-2.8CT-ND	2.8V, 100mA Linear Regulator ***NEW!***	4-microSMD	1.92	1.43	1.06
LP5900TL-2.8TR-ND	2.8V, 100mA Linear Regulator ***NEW!***	4-microSMD		209.25/250	
LP5900TL-3.0CT-ND	3V, 100mA Linear Regulator ***NEW!***	4-microSMD	1.92	1.43	1.06
LP5900TL-3.0TR-ND	3V, 100mA Linear Regulator ***NEW!***	4-microSMD		209.25/250	
LP5900TL-3.3CT-ND	3.3V, 100mA Linear Regulator ***NEW!***	4-microSMD	1.92	1.43	1.06
LP5900TL-3.3TR-ND	3.3V, 100mA Linear Regulator ***NEW!***	4-microSMD		209.25/250	
LP8340CDT-1.8-ND	1.8V, LDO, Low IQ, 1.0A CMOS Linear Regulator	3-DPAK	1.70	1.25	.91
LP8340CDT-2.5-ND	2.5V, LDO, Low IQ, 1.0A CMOS Linear Regulator	3-DPAK	1.70	1.25	.91
LP8340CDT-3.3-ND	3.3V, LDO, Low IQ, 1.0A CMOS Linear Regulator	3-DPAK	1.70	1.25	.91
LP8340CDT-5.0-ND	5V, LDO, Low IQ, 1.0A CMOS Linear Regulator	3-DPAK	1.70	1.25	.91
LP8340CLD-1.8CT-ND	1.8V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	1.70	1.25	.91
LP8340CLD-1.8TR-ND	1.8V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP		588.90/1,000	

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LP8340CLD-2.5CT-ND	2.5V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	1.70	1.25	.91
LP8340CLD-2.5TR-ND	2.5V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	588.90/1,000		
LP8340CLD-3.3CT-ND	3.3V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	1.70	1.25	.91
LP8340CLD-3.3TR-ND	3.3V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	588.90/1,000		
LP8340CLD-5.0CT-ND	5V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	1.70	1.25	.91
LP8340CLD-5.0TR-ND	5V, LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	588.90/1,000		
LP8340CLD-ADJCT-ND	Adj., LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	1.70	1.25	.91
LP8340CLD-ADJTR-ND	Adj., LDO, Low IQ, 1.0A CMOS Linear Regulator	6-LLP	588.90/1,000		
LP8345CDT-1.8-ND	1.8V, LDO, Low IQ, 500mA CMOS Linear Regulator	3-DPAK	1.72	1.26	.92
LP8345CDT-2.5-ND	2.5V, LDO, Low IQ, 500mA CMOS Linear Regulator	3-DPAK	1.72	1.26	.92
LP8345CDT-3.3-ND	3.3V, LDO, Low IQ, 500mA CMOS Linear Regulator	3-DPAK	1.72	1.26	.92
LP8345CDT-5.0-ND	5V, LDO, Low IQ, 500mA CMOS Linear Regulator	3-DPAK	1.72	1.26	.92
LP8345CLD-1.8CT-ND	1.8V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	1.72	1.26	.92
LP8345CLD-1.8TR-ND	1.8V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	595.40/1,000		
LP8345CLD-2.5CT-ND	2.5V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	1.72	1.26	.92
LP8345CLD-2.5TR-ND	2.5V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	595.40/1,000		
LP8345CLD-3.3CT-ND	3.3V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	1.72	1.26	.92
LP8345CLD-3.3TR-ND	3.3V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	595.40/1,000		
LP8345CLD-5.0CT-ND	5V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	1.72	1.26	.92
LP8345CLD-5.0TR-ND	5V, LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	595.40/1,000		
LP8345CLD-ADJCT-ND	Adj., LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	1.72	1.26	.92
LP8345CLD-ADJTR-ND	Adj., LDO, Low IQ, 500mA CMOS Linear Regulator	6-LLP	595.40/1,000		
LP8358MF-1.2CT-ND	1.2V, 150mA LDO Voltage Regulator with Power Good	SOT-23-5	.99	.72	.52
LP8358MF-1.2TR-ND	1.2V, 150mA LDO Voltage Regulator with Power Good	SOT-23-5	308.00/1,000		
LP38690DT-1.8-ND	1.8V, 1A LDO CMOS Linear Regulator	TO-252	1.81	1.33	.97
LP38690DT-2.5-ND	2.5V, 1A LDO CMOS Linear Regulator	TO-252	1.81	1.33	.97
LP38690DT-3.3-ND	3.3V, 1A LDO CMOS Linear Regulator	TO-252	1.81	1.33	.97
LP38690DT-5.0-ND	5V, 1A LDO CMOS Linear Regulator	TO-252	1.81	1.33	.97
LP38690SD-1.8CT-ND	1.8V, 1A LDO CMOS Linear Regulator	6-LLP	1.81	1.33	.97
LP38690SD-1.8TR-ND	1.8V, 1A LDO CMOS Linear Regulator	6-LLP	627.90/1,000		
LP38690SD-2.5CT-ND	2.5V, 1A LDO CMOS Linear Regulator	6-LLP	1.81	1.33	.97
LP38690SD-2.5TR-ND	2.5V, 1A LDO CMOS Linear Regulator	6-LLP	627.90/1,000		
LP38690SD-3.3CT-ND	3.3V, 1A LDO CMOS Linear Regulator	6-LLP	1.81	1.33	.97
LP38690SD-3.3TR-ND	3.3V, 1A LDO CMOS Linear Regulator	6-LLP	627.90/1,000		
LP38690SD-5.0CT-ND	5V, 1A LDO CMOS Linear Regulator	6-LLP	1.81	1.33	.97
LP38690SD-5.0TR-ND	5V, 1A LDO CMOS Linear Regulator	6-LLP	627.90/1,000		
LP38690SD-ADJCT-ND	Adj., 1A LDO CMOS Linear Regulator	6-LLP	1.81	1.33	.97
LP38690SD-ADJTR-ND	Adj., 1A LDO CMOS Linear Regulator	6-LLP	627.90/1,000		
LP38691DT-1.8-ND	1.8V, 500mA LDO CMOS Linear Regulator	TO-252	1.76	1.29	.94
LP38691DT-2.5-ND	2.5V, 500mA LDO CMOS Linear Regulator	TO-252	1.76	1.29	.94
LP38691DT-3.3-ND	3.3V, 500mA LDO CMOS Linear Regulator	TO-252	1.76	1.29	.94
LP38691DT-5.0-ND	5.0V, 500mA LDO CMOS Linear Regulator	TO-252	1.76	1.29	.94
LP38691SD-1.8CT-ND	1.8V, 500mA LDO CMOS Linear Regulator	6-LLP	1.76	1.29	.94
LP38691SD-1.8TR-ND	1.8V, 500mA LDO CMOS Linear Regulator	6-LLP	608.40/1,000		
LP38691SD-2.5CT-ND	2.5V, 500mA LDO CMOS Linear Regulator	6-LLP	1.76	1.29	.94
LP38691SD-2.5TR-ND	2.5V, 500mA LDO CMOS Linear Regulator	6-LLP	608.40/1,000		
LP38691SD-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator	6-LLP	1.76	1.29	.94
LP38691SD-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator	6-LLP	608.40/1,000		
LP38691SD-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator	6-LLP	1.76	1.29	.94
LP38691SD-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator	6-LLP	608.40/1,000		
LP38691SD-ADJCT-ND	Adj., 500mA LDO CMOS Linear Regulator	6-LLP	1.76	1.29	.94
LP38691SD-ADJTR-ND	Adj., 500mA LDO CMOS Linear Regulator	6-LLP	608.40/1,000		
LP38692MP-1.8CT-ND	1.8V, 1A LDO CMOS Linear Regulator	SOT-223-5	1.59	1.18	.88
LP38692MP-1.8TR-ND	1.8V, 1A LDO CMOS Linear Regulator	SOT-223-5	656.64/1,000		
LP38692MP-2.5CT-ND	2.5V, 1A LDO CMOS Linear Regulator	SOT-223-5	1.59	1.18	.88
LP38692MP-2.5TR-ND	2.5V, 1A LDO CMOS Linear Regulator	SOT-223-5	656.64/1,000		
LP38692MP-3.3CT-ND	3.3V, 1A LDO CMOS Linear Regulator	SOT-223-5	1.59	1.18	.88
LP38692MP-3.3TR-ND	3.3V, 1A LDO CMOS Linear Regulator	SOT-223-5	656.64/1,000		
LP38692MP-5.0CT-ND	5V, 1A LDO CMOS Linear Regulator	SOT-223-5	1.59	1.18	.88
LP38692MP-5.0TR-ND	5V, 1A LDO CMOS Linear Regulator	SOT-223-5	656.64/1,000		
LP38692MP-ADJCT-ND	Adj., 1A LDO CMOS Linear Regulator	SOT-223-5	1.59	1.18	.88
LP38692MP-ADJTR-ND	Adj., 1A LDO CMOS Linear Regulator	SOT-223-5	656.64/1,000		
LP38692SD-1.8CT-ND	1.8V, 1A LDO CMOS Linear Regulator	6-LLP	1.59	1.18	.88
LP38692SD-1.8TR-ND	1.8V, 1A LDO CMOS Linear Regulator	6-LLP	656.64/1,000		
LP38692SD-2.5CT-ND	2.5V, 1A LDO CMOS Linear Regulator	6-LLP	1.59	1.18	.88
LP38692SD-2.5TR-ND	2.5V, 1A LDO CMOS Linear Regulator	6-LLP	656.64/1,000		
LP38692SD-3.3CT-ND	3.3V, 1A LDO CMOS Linear Regulator	6-LLP	1.59	1.18	.88
LP38692SD-3.3TR-ND	3.3V, 1A LDO CMOS Linear Regulator	6-LLP	656.64/1,000		
LP38692SD-5.0CT-ND	5V, 1A LDO CMOS Linear Regulator	6-LLP	1.59	1.18	.88
LP38692SD-5.0TR-ND	5V, 1A LDO CMOS Linear Regulator	6-LLP	656.64/1,000		
LP38692SD-ADJCT-ND	Adj., 1A LDO CMOS Linear Regulator	6-LLP	1.59	1.18	.88
LP38692SD-ADJTR-ND	Adj., 1A LDO CMOS Linear Regulator	6-LLP	656.64/1,000		
LP38693MP-1.8CT-ND	1.8V, 500mA LDO CMOS Linear Regulator	SOT-223	1.87	1.37	1.00
LP38693MP-1.8TR-ND	1.8V, 500mA LDO CMOS Linear Regulator	SOT-223	647.40/1,000		
LP38693MP-2.5CT-ND	2.5V, 500mA LDO CMOS Linear Regulator	SOT-223	1.87	1.37	1.00
LP38693MP-2.5TR-ND	2.5V, 500mA LDO CMOS Linear Regulator	SOT-223	647.40/1,000		
LP38693MP-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator	SOT-223	1.87	1.37	1.00
LP38693MP-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator	SOT-223	647.40/1,000		
LP38693MP-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator	SOT-223	1.87	1.37	1.00
LP38693MP-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator	SOT-223	647.40/1,000		
LP38693MP-ADJCT-ND	Adj., 500mA LDO CMOS Linear Regulator	SOT-223	1.87	1.37	1.00
LP38693MP-ADJTR-ND	Adj., 500mA LDO CMOS Linear Regulator	SOT-223	647.40/1,000		
LP38693SD-1.8CT-ND	1.8V, 500mA LDO CMOS Linear Regulator	6-LLP	1.87	1.37	1.00
LP38693SD-1.8TR-ND	1.8V, 500mA LDO CMOS Linear Regulator	6-LLP	647.40/1,000		
LP38693SD-2.5CT-ND	2.5V, 500mA LDO CMOS Linear Regulator	6-LLP	1.87	1.37	1.00
LP38693SD-2.5TR-ND	2.5V, 500mA LDO CMOS Linear Regulator	6-LLP	647.40/1,000		
LP38693SD-3.3CT-ND	3.3V, 500mA LDO CMOS Linear Regulator	6-LLP	1.87	1.37	1.00
LP38693SD-3.3TR-ND	3.3V, 500mA LDO CMOS Linear Regulator	6-LLP	647.40/1,000		
LP38693SD-5.0CT-ND	5.0V, 500mA LDO CMOS Linear Regulator	6-LLP	1.87	1.37	1.00
LP38693SD-5.0TR-ND	5.0V, 500mA LDO CMOS Linear Regulator	6-LLP	647.40/1,000		
LP38693SD-ADJCT-ND	Adj., 500mA LDO CMOS Linear Regulator	6-LLP	1.87	1.37	1.00
LP38693SD-ADJTR-ND	Adj., 500mA LDO CMOS Linear Regulator	6-LLP	647.40/1,000		
LP38841MR-ADJ-ND	Adj., 0.8A, LDO Linear Regulator	8-PSOP	4.95	3.77	2.88
LP38841S-0.8-ND	0.8V, 0.8A, LDO Linear Regulator	TO-263-5	4.95	3.77	2.88
LP38841S-1.2-ND	1.2V, 0.8A, LDO Linear Regulator	TO-263-5	4.95	3.77	2.88
LP38841S-1.5-ND	1.5V, 0.8A, LDO Linear Regulator	TO-263-5	4.95	3.77	2.88
LP38841T-0.8-ND	0.8V, 0.8A, LDO Linear Regulator	TO-220-5	4.95	3.77	2.88
LP38841T-1.2-ND	1.2V, 0.8A, LDO Linear Regulator	TO-220-5	4.95	3.77	2.88
LP38841T-1.5-ND	1.5V, 0.8A, LDO Linear Regulator	TO-220-5	4.95	3.77	2.88
LP38842MR-ADJ-ND	Adj., 1.5A, LDO Linear Regulator	8-PSOP	5.18	3.94	3.01
LP38842S-0.8-ND	0.8V, 1.5A, LDO Linear Regulator	TO-263-5	5.18	3.94	3.01
LP38842S-1.2-ND	1.2V, 1.5A, LDO Linear Regulator	TO-263-5	5.18	3.94	3.01
LP38842S-1.5-ND	1.5V, 1.5A, LDO Linear Regulator	TO-263-5	5.18	3.94	3.01
LP38842T-0.8-ND	0.8V, 1.5A, LDO Linear Regulator	TO-220-5	5.18	3.94	3.01
LP38842T-1.2-ND	1.2V, 1.5A, LDO Linear Regulator	TO-220-5	5.18	3.94	3.01
LP38842T-1.5-ND	1.5V, 1.5A, LDO Linear Regulator	TO-220-5	5.18	3.94	3.01
LP38843S-0.8-ND	0.8V, 3A, LDO Linear Regulator	TO-263-5	5.36	4.24	3.40
LP38843S-1.2-ND	1.2V, 3A, LDO Linear Regulator	TO-263-5	5.36	4.24	3.40
LP38843S-1.5-ND	1.5V, 3A, LDO Linear Regulator	TO-263-5	5.36	4.24	3.40
LP38843T-0.8-ND	0.8V, 3A, LDO Linear Regulator	TO-220-5	5.36	4.24	3.40
LP38843T-1.2-ND	1.2V, 3A, LDO Linear Regulator	TO-220-5	5.36	4.24	3.40
LP38843T-1.5-ND	1.5V, 3A, LDO Linear Regulator	TO-220-5	5.36	4.24	3.40
LPC660AIM-ND	Low Power Quad CMOS Op Amp, A Grade	14-SOIC	3.05	2.32	1.77
LPC660IM-ND	Low Power Quad CMOS Op Amp	14-SOIC	2.98	2.21	1.64
LPC661IM-ND	Low Power CMOS Op Amp	8-SOIC	2.08	1.55	1.14
LPC662AIM-ND	Low Power Dual CMOS Op Amp, A Grade	8-SOIC	2.55	1.94	1.48
LPC662IM-ND	Low Power Quad CMOS Op Amp	8-SOIC	2.48	1.84	1.36
LPV321M5CT-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SOT-23-5	1.05	.77	.56
LPV321M5TR-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SOT-23-5	364.00/1,000		
LPV321M7CT-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SC-70-5	1.05	.77	.56
LPV321M7TR-ND	Single General Purpose Low Volt, LP, R/R Out Op Amp	SC-70-5	364.00/1,000		
LPV324M-ND	Quad General Purpose Low Volt, LP, R/R Out Op Amp	14-SOIC	1.43	1.05	.76
LPV324MT-ND	Quad General Purpose Low Volt, LP, R/R Out Op Amp	14-TSSOP	1.47	1.08	.79
LPV358M-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-SOIC	1.20	.88	.64
LPV358MMCT-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-MSOP	1.20	.88	.64
LPV358MMTR-ND	Dual General Purpose Low Volt, LP, R/R Out Op Amp	8-MSOP	416.00/1,000		
LPV511MGCT-ND	880nA, R/R Input and Output Op Amp*	SC70-5	2.20	1.64	1.21
LPV511MGTR-ND	880nA, R/R Input and Output Op Amp*	SC70-5	908.80/1,000		
MAX660M-ND	Switch Capacitor Volt Converter	8-SOIC	1.58	1.18	.87
MCP809M3-4.63CT-ND	4.63V, Microprocessor Reset Circuit	SOT-23	.84	.61	.44
MCP809M3-4.63TR-ND	4.63V, Microprocessor Reset Circuit	SOT-23	261.80/1,000		
MF10CCN-ND	General Purpose Dual Active Filter	20-Dip	4.00	3.04	2.32
MF10CCWM-ND	Universal Monolithic Dual Switched Capacitor Filter	20-SOIC	3.48	2.65	2.02
MM5452V-ND	Liquid Crystal Display Driver, 32 Segments	44-PLCC	5.95	4.53	3.46
MM5453V-ND	Liquid Crystal Display Driver, 32 Segments	44-PLCC	4.80	3.65	2.79
MM5483N-ND	Liquid Crystal Display Driver, 31 Segments	40-Dip	5.60	4.26	3.25
MM145453V-ND	Liquid Crystal Display Driver, 33 Segments	44-PLCC	5.33	4.05	3.09
SCAN90CP02VY-ND	1.5GBPS 2x2 LVDS Crosspoint Switch ***NEW!***	32-LQFP	5.86	4.64	3.72
SCAN90CP02SPCT-ND	1.5GBPS 2x2 LVDS Crosspoint Switch ***NEW!***	28-LLP	5.86	4.64	3.72
SCAN90CP02SPTR-ND	1.5GBPS 2x2 LVDS Crosspoint Switch ***NEW!***	28-LLP	3459.60/1,000		
SCAN92LV090SLC-ND	9 Ch. LVDS Transceiver with Boundary SCAN	64-FBGA	9.95	7.87	6.31
SCAN92LV090VEH-ND	9 Ch. LVDS Transceiver with Boundary SCAN	64-LQFP	9.95	7.87	6.31
SCAN16512ASM-ND	Tri-St. Low Volt. Universal 16-Bit IEEE 1149.1 Bus Transcvr	64-FBGA	7.22	5.72	4.58
SCAN16602SM-ND	LV Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	5.36	4.24	3.40
SCAN162512ASM-ND	Tri-State Low Voltage Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	7.22	5.72	4.58
SCAN162602SM-ND	LV Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	5.36	4.24	3.40
SCAN90004TVS-ND	4-Channel LVDS Buffer/Repeater ***NEW!***	48-TQFP	8.36	6.61	5.30
SCAN921023SLC-ND	20-66MHz, 10-Bit Serializer with IEEE 1149.1 JTAG and BIST	49-FBGA	9.58	7.57	6.07
SCAN921025HSM-ND	High Temp. 20-80MHz 10-Bit Bus LVDS SerDes ***NEW!***	49-BGA	9.98	7.89	6.32
SCAN921025SLC-ND	30-80MHz 10-Bit Serializer with IEEE 1149.1 JTAG and BIST	49-FBGA	9.58	7.57	6.07
SCAN921224SLC-ND	20-66MHz, 10-Bit Deserializer with IEEE 1149.1 JTAG and BIST	49-FBGA	9.58	7.57	6.07
SCAN921226HSM-ND	High Temp. 20-80MHz 10-Bit Bus LVDS SerDes ***NEW!***	49-BGA	9.98	7.89	6.32
SCAN921226SLC-ND	30-80MHz 10-Bit Deserializer with IEEE 1149.1 JTAG and BIST	49-FBGA	9.58	7.57	6.07
SCAN921260UJB-ND	X6 1:10 Deserializer with IEEE 1149.1 JTAG and BIST	196-LBGA	27.15	25.34	23.53
SCAN921821TSM-ND	Dual 18-Bit Serializer with Pre-Emphasis, IEEE 1149.1 (JTAG), and AT-Speed BIST*	100-FBGA	13.30	11.40	10.11
SCAN926260TUF-ND	X6 1:10 Bus LVDS Deserializer w/IEEE 1149.1 and BIST	196-LBGA	27.15	25.34	23.53
SCAN928028TUF-ND	8-Channel, 10:1 Serializer ***NEW!***	196-LBGA	27.15	25.34	23.53
SCANH16602SM-ND	LV Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	5.36	4.24	3.40
SCANH162602SM-ND	LV Universal 16-Bit IEEE 1149.1 Bus Transceiver	64-FBGA	5.36	4.24	3.40
SCANSTA101SM-ND	Low Voltage IEEE 1149.1 STA Master	49-FBGA	14.96	12.83	11.38
SCANSTA111MT-ND	Enhanced SCAN Bridge, Multidrop Addressable IEEE 1149.1 JTAG Port	48-TSSOP	9.87	7.81	6.26
SCANSTA111SM-ND	Enhanced SCAN Bridge, Multidrop Addressable IEEE 1149.1 JTAG Port	49-FBGA	9.87	7.81	6.26
SCANSTA112SM-ND	7-Port Multidrop IEEE 1149.1 JTAG Mux	100-FBGA	10.40	8.91	7.91
SCANSTA112VS-ND	7-Port Multidrop IEEE 1149.1 JTAG Mux	100-TQFP	10.40	8.91	7.91
SCANSTA476TSDCT-ND	8-Input IEEE 1149.1 Analog Voltage Monitor ***NEW!***	16-LLP	6.99	5.53	4.43
SCANSTA476TSDTR-ND	8-Input IEEE 1149.1 Analog Voltage Monitor ***NEW!***	16-LLP	4129.20/1,000		
TL082CM-ND	Wide Bandwidth Dual JFET Input Op Amp	8-SOIC	1.21	.89	.65
TL082CMXTR-ND	Wide Bandwidth Dual JFET Input Op Amp	8-SOIC	1029.56/2,500		
TL082CPNS-ND	Bi-FET Dual Op Amp	8-Dip	1.34	.99	.72
USBN9603-28M-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-SOIC	5.70	4.34	3.31
USBN9603SLBXCT-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-Laminate	5.63	4.45	3.57
USBN9603SLBXTR-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-Laminate	8174.00/2,500		
USBN9604SLBXCT-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-CSP	5.36	4.24	3.40
USBN9604SLBXTR-ND	Universal Serial Bus Full Speed Node Controller with Enhanced DMA Support	28-CSP	7777.50/2,500		

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Microsemi Integrated Products Group, formerly Linfinity, designs and manufactures Analog and Mixed Signal semiconductors specializing in Light, Power, Audio and Communication Products.

Introducing Microsemi's Newest CCFL Inverter Modules: PanelMatch™ (bolded items) Programmable output current, Lower Cost, Higher Performance, Smaller Module size, Industrial Temps, and Widest Dimming available.

Digital and Analog Dimming/Automatic Strike Voltage Generation/Open and Short Fault Detection with Auto Shutdown 3.3V, 5V and 12V Inputs

Module	IC	Output	Input Voltage	Output Power (W)	Dim Ratio	Description
Single Output Inverters						
LXM1612-vv-Wc	LX1686	Single	5V, 12V	4	100:1+	Standard Dimming, Direct Drive
LXM1614-14-11	LX1686	Single	13.5V	6	150:1+	Wide Temperature, Analog and Digital Dimming with Controlled Boost
LXM1615-vv-Wc	LX1686	Single	3.6V, 5V	2	100:1+	3.6V/5V, 2W High Performance Digital Dimming
LXM1617-03-2c	**LX1689**	**Single**	**3.3V**	**2**	**50:1+**	**3V, Miniature Size, Full Feature, High Efficiency**
LXM1617-05-Wc	**LX1689**	**Single**	**5V**	**2, 4, 6**	**50:1+**	**5V, Miniature Size, Full Feature, High Efficiency**
LXM1617-12-Wc	**LX1689**	**Single**	**12V**	**4, 6**	**50:1+**	**12V, Miniature Size, Full Feature, High Efficiency**
LXM1618-03-2c	**LX1689**	**Single**	**3V**	**2**	**3:1+**	**3.3V, Low Cost, Standard Dimming**
LXM1618-05-Wc	**LX1689**	**Single**	**5V**	**2, 4, 6**	**3:1+**	**5V, Low Cost, Standard Dimming**
LXM1618-12-Wc	**LX1689**	**Single**	**12V**	**4, 6**	**3:1+**	**12V, Low Cost, Standard Dimming**
Dual Output Inverters						
LXM1621-02	LX1585	Dual	12V	3-5	100:1+	2-Lamp, Digital Dimming
LXM1621-03	LX1585	Dual	12V	3-5	100:1+	2-Lamp, Digital Dimming
LXM1621-04	LX1585	Dual	12V	3-5	100:1+	2-Lamp, Digital Dimming
LXM1623-05-Wc	**LX1689**	**Dual**	**5V**	**4, 6**	**50:1+**	**2-Lamp, Small Size, Full Feature, High Efficiency**
LXM1623-05-44	**LX1689**	**Dual**	**5V**	**4**	**50:1+**	**2-Lamp, Small Size, Full Feature, High Efficiency: 2 Outputs on one side**
LXM1623-12-44	**LX1689**	**Dual**	**12V**	**4**	**50:1+**	**2-Lamp, Small Size, Full Feature, High Efficiency: 2 Outputs on one side**
LXM1623-12-Wc	**LX1689**	**Dual**	**12V**	**4, 6**	**50:1+**	**2-Lamp, Small Size, Full Feature, High Efficiency**
LXM1624-12-Wc	**LX1689**	**Dual**	**12V**	**4, 6**	**3:1+**	**2-Lamp, 12V, Low Cost, Standard Feature**
LXM1626-12-64	**LX1691**	**Dual**	**12V**	**6**	**100:1+**	**2-Lamp, Small Size, Full Feature, High Efficiency: 2 Outputs on one side**
Quad Output Inverters						
LXM1643-12-6c	**LX1689**	**Quad**	**12V**	**6**	**50:1+**	**4-Lamp, Small Size, Full Feature, High Efficiency**
LXM1644-12-6c	**LX1689**	**Quad**	**12V**	**6**	**3:1+**	**4-Lamp, Standard Dimming**

Build your own CCFL Inverter

Microsemi CCFL Controllers are the Industries Highest Efficiency, Widest Dimming Range, Lowest Component Count Controllers out there!
TSSOP Package: **LX1689, LX1688, or LX1691**

Complete Inverter BOM

1x	LX1689
1x	Transformer
1x	Dual FET
2x	Connectors
7x	Resistors
10x	Capacitors
22	**Total Components**

Visible Light Sensors

These light sensors only detect "Human Eye" visible light, providing the lowest cost, minimal component solution.
Auto Brightness Control for CCFL of LEDs, Tiny MSOP 8 package.
EXTEND YOUR LAMP LIFE — EXTEND YOUR BATTERY LIFE!

- **LX1970**
- **LX1971** — Wider Dynamic Range
- **LX1972** — Low cost, Ultra small 1206 package

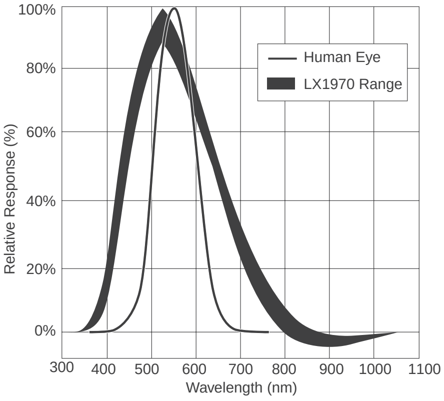

LED Drivers

High Efficiency, Parallel and Series Drive, Current Sink LED Drivers perfect for Hand Held and Battery Operated Devices

- **LX1990** — Dual Output, 6 LEDs
- **LX1991** — 6 Outputs, 100 LEDs
- **LX1992** — Series Drive, 80% Eff. 10 LEDs
- **LX1993** — Series Drive, 82% Eff. 10 LEDs
- **LX1994** — Dual Mode, 82% Eff. External MOSFET, 10 LEDs
- **LX1995** — Dual Mode, 85% Eff. Internal MOSFET, 10 LEDs, TSOT-5

Multi-Output PWMs

Highly Integrated power supply controller

- **LX1671** — 3 PWM, 1 LDO output, 300kHz, up to 12Vin
- **LX1672** — 2 PWM, 1 LDO, 300/500/600kHz, up to 12Vin
- **LX1673** — 1 PWM, 1 LDO, 300/600/900kHz, up to 12Vin

Key Features:

• Bi-Phase Current sharing • Programmable Soft Start • Power Sequencing • No Current Sense Resistors • Output as low as 0.8V • Adj. and Fixed output combos

Applications:

• DDR Memory Termination • FPGA, CPU, MCU Power Supply • Video Card Power Supply • PC Peripherals • Computer Add On Cards

What Else?

• Li-Ion Battery Charger? • SCSI Terminators? • PWMs? • LDOs? • Class D Audio Amps? • WLAN 802.11a/b/g?

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APPLICATION SPECIFIC INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX1554CM-ND	16V, Ultra-Low Start-Up Current, Current-Mode PWM	8-Dip	2.07	1.89	1.76
LX1562IM-ND	13.1V, Second Generation Power Factor Controller	8-Dip	2.07	1.89	1.76
LX1563IDM-ND	9.8V, Second Generation Power Factor Controller	8-SOIC	2.19	2.00	1.86
LX1671CLQ-ND	Multiple Output LoadSHARE™ PWM	38-MLPQ	5.68	5.19	4.82
LX1672-03CPW-ND	Multiple Output LoadSHARE™ PWM	28-TSSOP	4.49	4.10	3.81
LX1672-05CPW-ND	Multiple Output LoadSHARE™ PWM	28-TSSOP	4.49	4.10	3.81
LX1676CPW-ND	Mobile AMD Athlon™ VRM Controller	38-TSSOP	6.34	5.69	4.88
LX1688CPW-ND	Multiple Lamp CCFL Controller	24-TSSOP	3.86	3.47	2.97
LX1688IPW-ND	Multiple Lamp CCFL Controller	24-TSSOP	4.62	4.15	3.56
LX1721-01 EVALKIT-ND	Evaluation Kit for LXE1721 AudioMax	—	130.65	—	—
LX1722CDB-ND	Class-D Stereo Power Amp Controller	44-QSOP	8.99	8.07	6.92
LX1741CDU-ND	High Efficiency High Voltage Boost Controller	8-MSOP	1.38	1.25	1.07
LX1742CDU-ND	High Efficiency High Voltage Boost Controller	8-MSOP	1.91	1.72	1.47
LX2201CLQ-ND	USB Li-Ion Battery Charger	20-MLP	2.50	2.24	1.92
LX5250CDBCT-ND	9-Line Multimode SCSI Terminator	36-QSOP	3.90	3.50	3.00
LX5250CDBTR-ND	9-Line Multimode SCSI Terminator	36-QSOP	2600.00/1,000		
LX5250CPW-ND	9-Line Multimode SCSI Terminator	28-TSSOP	3.90	3.50	3.00
LX5251CPW-ND	9-Line Multimode SCSI Terminator	24-TSSOP	3.90	3.50	3.00
LX5255CPW-ND	9-Line LVD SCSI Terminator	24-TSSOP	3.90	3.50	3.00
LX5261CDP-ND	27-Line LVD SCSI Source/Sink Regulator	16-SOIC	4.60	4.20	3.90
LX6431ACDM-ND	Precision Programmable Reference	8-SOIC	.90	.82	.77
LX7001CDM-ND	Transient Immune Undervoltage Sensing Circuit	8-SOIC	1.15	1.05	.98
LX9501-ND	Input-Connector Cable Assembly	—	4.88	4.38	3.75
MC33064DMCT-ND	Undervoltage Sensing Circuit	8-SOIC	1.07	.97	.83
MC33064DMTR-ND	Undervoltage Sensing Circuit	8-SOIC	1787.50/2,500		
SG2524BDW-ND	Regulating Pulse Width Modulator	16-SOIC	5.18	4.73	4.39
SG2543DW-ND	Power Supply Output Supervisory Circuit	16-SOIC	12.08	11.03	10.24
SG2842DM-ND	Current Mode PWM Controller	8-SOIC	3.80	3.47	3.22
SG3524BDW-ND	Regulating Pulse Width Modulator	16-SOIC	4.60	4.20	3.90
SG3543DW-ND	Power Supply Output Supervisory Circuit	16-SOIC	5.64	5.15	4.78
SG3842DM-ND	Current Mode PWM Controller	8-SOIC	1.61	1.47	1.37
TL431ACDM-ND	Precision Programmable Reference	8-SOIC	.69	.63	.59
UC2842AD-ND	Current Mode PWM Controller	14-SOIC	4.03	3.68	3.42

CCFL MODULES AND CONTROLLERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX1686ECPW-ND	Digital Dimming CCFL Controller	24-TSSOP	5.87	—	—
LX1689CPW-ND	Third Generation CCFL Controller	20-TSSOP	4.45	—	—
LX9506-ND	Input Cable Assembly	—	4.88	—	—
LX9507-ND	Input Cable Assembly	—	4.88	—	—
LX9508-ND	Input Cable Assembly	—	10.24	—	—
LXMG1611-01-ND	Digital Dimming CCFL Inverter Module* ***NEW!***	—	45.66	—	—
LXMG1612-05-01-ND	5V, Digital Dimming CCFL Inverter Module* ***NEW!***	—	48.30	—	—
LXM1612-05-02-ND	5V, Digital Dimming CCFL Inverter Module	—	48.30	—	—
LXMG1612-05-02-ND	5V, Digital Dimming CCFL Inverter Module* ***NEW!***	—	48.30	—	—
LXM1612-12-01-ND	12V, Digital Dimming CCFL Inverter Module	—	48.30	—	—
LXMG1612-12-01-ND	12V, Digital Dimming CCFL Inverter Module* ***NEW!***	—	48.30	—	—
LXMG1612-12-02-ND	12V, Digital Dimming CCFL Inverter Module* ***NEW!***	—	48.30	—	—
LXM1614E-14-11-ND	Dual Dimming, Extended Temp. CCFL Inverter Module	—	58.54	—	—
LXMG1614E-14-11-ND	Dual Dimming, Extended Temp. CCFL Inverter Module* ***NEW!***	—	58.54	—	—
LXM1615-03-01-ND	3.6V/5V, 2W, Digital Dimming CCFL Inverter Module	—	34.39	—	—
LXMG1615-03-01-ND	3.6V/5V, 2W, Digital Dimming CCFL Inverter Module* ***NEW!***	—	34.39	—	—
LXM1615-03-02-ND	3.6V/5V, 2W, Digital Dimming CCFL Inverter Module	—	34.39	—	—
LXMG1615-03-02-ND	3.6V/5V, 2W, Digital Dimming CCFL Inverter Module* ***NEW!***	—	34.39	—	—
LXM1617-03-21-ND	3.3V, 2.2W CCFL Programmable Inverter Module	—	36.36	—	—
LXMG1617-03-21-ND	3.3V, 2.2W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXM1617-03-22-ND	3.3V, 2.2W CCFL Programmable Inverter Module	—	36.36	—	—
LXMG1617-03-22-ND	3.3V, 2.2W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXM1617-05-21-ND	5V, 2.2W CCFL Programmable Inverter Module	—	36.36	—	—
LXMG1617-05-21-ND	5V, 2.2W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXM1617-05-22-ND	5V, 2.2W CCFL Programmable Inverter Module	—	36.36	—	—
LXMG1617-05-22-ND	5V, 2.2W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXM1617-05-41-ND	5V, 4W CCFL Programmable Inverter Module	—	36.36	—	—
LXMG1617-05-41-ND	5V, 4W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXM1617-05-42-ND	5V, 4W CCFL Programmable Inverter Module	—	36.36	—	—
LXMG1617-05-42-ND	5V, 4W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXMG1617-05-61-ND	5V, 6W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXM1617-05-62-ND	5V, 6W CCFL Programmable Inverter Module	—	36.36	—	—
LXMG1617-05-62-ND	5V, 6W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXM1617-12-41-ND	12V, 4W CCFL Programmable Inverter Module	—	36.36	—	—
LXMG1617-12-41-ND	12V, 4W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXM1617-12-42-ND	12V, 4W CCFL Programmable Inverter Module	—	36.36	—	—
LXMG1617-12-42-ND	12V, 4W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXM1617-12-61-ND	12V, 6W CCFL Programmable Inverter Module	—	36.36	—	—
LXMG1617-12-61-ND	12V, 6W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXM1617-12-62-ND	12V, 6W CCFL Programmable Inverter Module	—	36.36	—	—
LXMG1617-12-62-ND	12V, 6W CCFL Programmable Inverter Module* ***NEW!***	—	36.36	—	—
LXM1618-03-21-ND	3.3V, 2.2W CCFL Programmable Inverter Module	—	33.21	—	—
LXMG1618-03-21-ND	3.3V, 2.2W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXM1618-03-22-ND	3.3V, 2.2W CCFL Programmable Inverter Module	—	33.21	—	—
LXMG1618-03-22-ND	3.3V, 2.2W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXMG1618-05-21-ND	5V, 2.2W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXMG1618-05-22-ND	5V, 2.2W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXM1618-05-41-ND	5V, 4W CCFL Programmable Inverter Module	—	33.21	—	—
LXMG1618-05-41-ND	5V, 4W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXMG1618-05-42-ND	5V, 4W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXM1618-05-61-ND	5V, 6W CCFL Programmable Inverter Module	—	33.21	—	—
LXMG1618-05-61-ND	5V, 6W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXMG1618-05-62-ND	5V, 6W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXM1618-12-41-ND	12V, 4W CCFL Programmable Inverter Module	—	33.21	—	—
LXMG1618-12-41-ND	12V, 4W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXM1618-12-42-ND	12V, 4W CCFL Programmable Inverter Module	—	33.21	—	—
LXMG1618-12-42-ND	12V, 4W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXM1618-12-43-ND	12V, 4W CCFL Programmable Inverter Module	—	33.21	—	—
LXM1618-12-61-ND	12V, 6W CCFL Programmable Inverter Module	—	33.21	—	—
LXMG1618-12-61-ND	12V, 6W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXM1618-12-62-ND	12V, 6W CCFL Programmable Inverter Module	—	33.21	—	—
LXMG1618-12-62-ND	12V, 6W CCFL Programmable Inverter Module* ***NEW!***	—	33.21	—	—
LXMG1620-01-ND	Direct Drive Dual Lamp CCFL Inverter Module* ***NEW!***	—	64.40	—	—
LXMG1621-01-ND	7mA, Digital Dimming Dual Lamp CCFL Inverter Module* ***NEW!***	—	78.20	—	—
LXM1621-02-ND	6mA, Digital Dimming Dual Lamp CCFL Inverter Module	—	78.20	—	—
LXMG1621-02-ND	6mA, Digital Dimming Dual Lamp CCFL Inverter Module* ***NEW!***	—	78.20	—	—
LXMG1621-03-ND	6.5mA, Digital Dimming Dual Lamp CCFL Inverter Module* ***NEW!***	—	78.20	—	—
LXMG1621-04-ND	5mA, Digital Dimming Dual Lamp CCFL Inverter Module* ***NEW!***	—	78.20	—	—
LXMG1622-12-01-ND	6.5mA, Dual 5W, Digital Dimming CCFL Inverter Module* ***NEW!***	—	74.75	—	—
LXMG1623-05-41-ND	5V, Dual 4W CCFL Programmable Inverter Module* ***NEW!***	—	56.33	—	—
LXM1623-05-42-ND	5V, Dual 4W CCFL Programmable Inverter Module	—	56.33	—	—
LXMG1623-05-42-ND	5V, Dual 4W CCFL Programmable Inverter Module* ***NEW!***	—	56.33	—	—
LXMG1623-05-44-ND	5V, Dual 4W CCFL Programmable Inverter Module* ***NEW!***	—	59.48	—	—
LXMG1623-05-61-ND	5V, Dual 6W CCFL Programmable Inverter Module* ***NEW!***	—	56.33	—	—
LXM1623-05-62-ND	5V, Dual 6W CCFL Programmable Inverter Module	—	56.33	—	—
LXMG1623-05-62-ND	5V, Dual 6W CCFL Programmable Inverter Module* ***NEW!***	—	56.33	—	—
LXMG1623-12-41-ND	12V, Dual 4W CCFL Programmable Inverter Module* ***NEW!***	—	56.33	—	—
LXM1623-12-42-ND	12V, Dual 4W CCFL Programmable Inverter Module	—	56.33	—	—
LXMG1623-12-42-ND	12V, Dual 4W CCFL Programmable Inverter Module* ***NEW!***	—	56.33	—	—
LXMG1623-12-44-ND	12V, Dual 4W CCFL Programmable Inverter Module* ***NEW!***	—	59.48	—	—
LXMG1623-12-61-ND	12V, Dual 6W CCFL Programmable Inverter Module* ***NEW!***	—	56.33	—	—
LXMG1623-12-62-ND	12V, Dual 6W CCFL Programmable Inverter Module* ***NEW!***	—	56.33	—	—
LXM1624-12-41-ND	12V, Dual 4W CCFL Programmable Inverter Module	—	56.33	—	—
LXMG1624-12-41-ND	12V, Dual 4W CCFL Programmable Inverter Module* ***NEW!***	—	59.48	—	—
LXMG1624-12-42-ND	12V, Dual 4W CCFL Programmable Inverter Module* ***NEW!***	—	59.48	—	—
LXMG1624-12-61-ND	12V, Dual 6W CCFL Programmable Inverter Module* ***NEW!***	—	59.48	—	—
LXMG1624-12-62-ND	12V, Dual 6W CCFL Programmable Inverter Module* ***NEW!***	—	59.48	—	—
LXMG1626-12-64-ND	12V, Dual 6W CCFL Programmable Inverter Module* ***NEW!***	—	59.48	—	—
LXM1643-12-61-ND	12V, Quad 6W CCFL Programmable Inverter Module	—	84.92	—	—
LXMG1643-12-61-ND	12V, Quad 6W CCFL Programmable Inverter Module* ***NEW!***	—	84.92	—	—
LXMG1643-12-62-ND	12V, Quad 6W CCFL Programmable Inverter Module* ***NEW!***	—	84.92	—	—
LXMG1644-12-61-ND	12V, Quad 6W CCFL Programmable Inverter Module* ***NEW!***	—	76.43	—	—

** RoHS Compliant*

LIGHT APPLICATIONS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX1970IDU-ND	Visible Light Sensor	8-MSOP	2.34	2.10	1.80
LX1970MINI EVAL-ND	Mini Control Board	—	11.70	10.50	9.00
LX1970-03 EVALKIT-ND	Evaluation Kit for LX1970 Visible Light Sensor	—	48.65	—	—
LX1971IDU-ND	Wide Range Visible Light Sensor	8-MSOP	4.19	3.77	3.23
LX1973AIDU-ND	Automotive Light Sensor ***NEW!***	8-MSOP	3.93	3.60	3.34
LX1990-02 EVAL-ND	Dual Programmable LED Driver Evaluation Board	—	48.75	—	—
LX1990-03EVAL-ND	Dual Programmable LED Driver Evaluation Board	—	39.00	—	—
LX1990ILM-ND	Dual Programmable LED Current Sink	6-MLP	.82	.74	.63
LX1991-02EVAL-ND	Six Output LED Driver Evaluation Board	—	39.00	—	—
LX1991-03EVAL-ND	Six Output LED Driver Evaluation Board	—	39.00	—	—
LX1991ILQ-ND	Six Output Programmable LED Current Sink	16-MLPQ	2.11	1.89	1.62
LX1992CLM-ND	High Efficiency LED Driver	8-MLP	1.38	1.25	1.07
LX1993CDU-ND	High Efficiency LED Driver	8-MSOP	1.91	1.72	1.47
LX1995-1-CSG-ND	Miniature LED Driver	5-TSOT	1.62	1.46	1.25
LXE1991-01EVALKIT-ND	Six Output LED Driver Evaluation Board	—	48.75	—	—

PROTECTION

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX7001CLP-ND	Transient Immune Undervoltage Sensing Circuit	TO-92	1.04	.95	.88
LX7001IDM-ND	Transient Immune Undervoltage Sensing Circuit	8-SOIC	1.27	1.16	1.08
LX7001ILP-ND	Transient Immune Undervoltage Sensing Circuit	TO-92	1.15	1.05	.98
LX7201-15ISF-ND	EMI Filter/ESD Protection for Down Stream USB Ports	SOT-23-6	.92	.83	.71
LX7202-15ISF-ND	EMI Filter and ESD Protection for Up Stream USB Ports	SOT-23-6	.92	.83	.71
LX7202-22ISF-ND	EMI Filter and ESD Protection for Up Stream USB Ports	SOT-23-6	.92	.83	.71
LX7203-15ISM-ND	EMI Filter and ESD Protection for Up Stream USB Ports	SC70-6L	1.19	1.07	.92
LX7203-22ISM-ND	EMI Filter and ESD Protection for Up Stream USB Ports	SC70-6L	1.19	1.07	.92
MC33064LP-ND	Undervoltage Sensing Circuit	TO-92	.98	.88	.75
MC33164-3DM-ND	3V, Undervoltage Sensing Circuit	8-SOIC	.98	.88	.75
MC33164-3LP-ND	3V, Undervoltage Sensing Circuit	TO-92	1.07	.97	.83
MC33164DM-ND	5V, Undervoltage Sensing Circuit	8-SOIC	1.27	1.14	.98
MC33164LP-ND	5V, Undervoltage Sensing Circuit	TO-92	1.17	1.05	.90
MC34064DM-ND	Undervoltage Sensing Circuit	8-SOIC	.98	.88	.75
MC34064LP-ND	Undervoltage Sensing Circuit	TO-92	.88	.79	.68
MC34164-3DM-ND	3V, Undervoltage Sensing Circuit	8-SOIC	.98	.88	.75
MC34164-3LP-ND	3V, Undervoltage Sensing Circuit	TO-92	.88	.79	.68
MC34164DM-ND	Undervoltage Sensing Circuit	8-SOIC	1.17	1.05	.90
MC34164LP-ND	Undervoltage Sensing Circuit	TO-92	1.07	.97	.83

RECTIFIER MODULE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
SRM4010-ND	40A Synchronous Rectifier Module	SMD	39.84	35.86	29.88

VOLTAGE REGULATORS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX432CSC-ND	Low Voltage Adj. Precision Shunt Regulator	SOT-23	.60	.55	.51
LX432ISC-ND	Low Voltage Adj. Precision Shunt Regulator	SOT-23	1.04	.95	.88
LX6431ACLP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	.85	.78	.73
LX6431AIDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	8-SOIC	1.10	1.01	.94
LX6431AILP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	1.06	.97	.90
LX6431BCDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	8-SOIC	1.04	.95	.88
LX6431BCLP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	.99	.91	.84
LX6431BIDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	8-SOIC	1.27	1.16	1.08
LX6431BILP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	1.22	1.12	1.04
LX6431CDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	8-SOIC	.74	.68	.63

(Continued)

Microsemi INTEGRATED PRODUCTS — VOLTAGE REGULATORS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	50	100
LX6431CLP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	.69	.63	.59
LX6431IDM-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	8-SOIC	.90	.82	.77
LX6431ILP-ND	Precision Adj. Three Terminal Shunt Voltage Regulator	TO-92	.85	.78	.73
LX8117-00CST-ND	Adj., 0.8A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117-25CST-ND	2.5V, 0.8A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117-28CST-ND	2.85V, 0.8A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117-33CDD-ND	3.3V, 0.8A LDO Positive Regulator	TO-263	2.88	2.63	2.44
LX8117-33CDT-ND	3.3V, 0.8A LDO Positive Regulator	D-Pak	1.96	1.79	1.66
LX8117-33CST-ND	3.3V, 0.8A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117A-00CDD-ND	Adj., 1A LDO Positive Regulator	TO-263	2.88	2.63	2.44
LX8117A-00CST-ND	Adj., 1A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117A-25CST-ND	2.5V, 1A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117A-28CDT-ND	2.85V, 1A LDO Positive Regulator	D-Pak	1.96	1.79	1.66
LX8117A-28CST-ND	2.85V, 1A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117A-33CDD-ND	3.3V, 1A LDO Positive Regulator	TO-263	2.88	2.63	2.44
LX8117A-33CST-ND	3.3V, 1A LDO Positive Regulator	SOT-223	1.96	1.79	1.66
LX8117B-00CDD-ND	Adj., 1.2A LDO Positive Regulator	TO-263	3.11	2.84	2.64
LX8117B-00CST-ND	Adj., 1.2A LDO Positive Regulator	SOT-223	2.19	2.00	1.86
LX8211-00ISECT-ND	Adj., 150mA CMOS LDO Regulator	SOT-23-5	.60	.55	.47
LX8211-00ISETR-ND	Adj., 150mA CMOS LDO Regulator	SOT-23-5	1209.00/3,000		
LX8211-25ISE-ND	2.5V, 150mA CMOS LDO Regulator	SOT-23-5	.55	.49	.42
LX8211-30ISE-ND	3V, 150mA CMOS LDO Regulator	SOT-23-5	.55	.49	.42
LX8221-DIDU-ND	2.7V/Adj., Dual 150mA CMOS LDO Regulator	10-MSOP	1.21	1.09	.93
LX8221-GIDU-ND	3V/Adj., Dual 150mA CMOS LDO Regulator	10-MSOP	1.21	1.09	.93
LX8384-00CDD-ND	Adj., 5A LDO Positive Regulator	TO-263	5.18	4.73	4.39
LX8554-00CDD-ND	Adj., 5A LDO Positive Regulator	TO-263	7.48	6.83	6.34
LX8580A-00CDD-ND	Adj., 7.5A LDO Positive Regulator	TO-263-5	1.50	1.37	1.27
LX8585-15CDD-ND	1.5V, 4.6A LDO Positive Regulator	TO-263	5.75	5.25	4.88
LX8817-25CDF-ND	2.5V/Adj., Dual Channel 2.5A LDO Regulator	7-SPAK	1.54	1.39	1.19
SG117AK-ND	1.5A, Three Terminal Adj. Voltage Regulator ***NEW!***	TO-3	29.60	26.64	22.20
SG117AT-ND	1.5A, Three Terminal Adj. Voltage Regulator ***NEW!***	TO-39	26.60	23.94	19.95
SG117K-ND	1.5A, Three Terminal Adj. Voltage Regulator ***NEW!***	TO-3	19.00	17.10	14.25
SG117T-ND	1.5A, Three Terminal Adj. Voltage Regulator ***NEW!***	TO-39	16.00	14.40	12.00
SG137AT-ND	1.5A Negative Adjustable Regulator ***NEW!***	TO-39	37.00	33.30	27.75
SG137T-ND	1.5A Negative Adjustable Regulator ***NEW!***	TO-39	18.20	16.38	13.65
SG723T-ND	Adj. Precision Voltage Regulator ***NEW!***	TO-99	12.00	10.80	9.00
SG1524BJ-ND	Regulating Pulse Width Modulator ***NEW!***	16-Dip	13.00	11.70	9.75
SG1524J-ND	Regulating Pulse Width Modulator ***NEW!***	16-Dip	12.00	10.80	9.00
SG1525AJ-ND	Regulating Pulse Width Modulator ***NEW!***	16-Dip	16.00	14.40	12.00
SG1526BJ-ND	Regulating Pulse Width Modulator ***NEW!***	18-Dip	29.20	26.28	21.90
SG1526J-ND	Regulating Pulse Width Modulator ***NEW!***	18-Dip	24.40	21.96	18.30
SG1825CJ-ND	High Speed Current Mode PWM ***NEW!***	16-Dip	40.00	36.00	30.00
SG1842Y-ND	Current Mode PWM Controller ***NEW!***	8-Dip	11.60	10.44	8.70
SG1843Y-ND	Current Mode PWM Controller ***NEW!***	8-Dip	11.60	10.44	8.70
SG1844Y-ND	Current Mode PWM Controller ***NEW!***	8-Dip	11.60	10.44	8.70
SG1845Y-ND	Current Mode PWM Controller ***NEW!***	8-Dip	11.60	10.44	8.70
SG1846J-ND	Current Mode PWM Controller ***NEW!***	16-Dip	22.00	19.80	16.50
SG2524BN-ND	Regulating Pulse Width Modulator	16-Dip	4.14	3.78	3.51
SG2524D-ND	Regulating Pulse Width Modulator	16-SOIC	3.68	3.36	3.12
SG2524N-ND	Regulating Pulse Width Modulator	16-Dip	3.91	3.57	3.32
SG2525ADW-ND	Regulating Pulse Width Modulator	16-SOIC	6.90	6.30	5.85
SG2525AN-ND	Regulating Pulse Width Modulator	16-Dip	7.48	6.83	6.34
SG2526BDW-ND	Regulating Pulse Width Modulator	18-SOIC	10.12	9.24	8.58
SG2526BN-ND	Regulating Pulse Width Modulator	18-Dip	9.78	8.93	8.29
SG2526DW-ND	Regulating Pulse Width Modulator	18-SOIC	14.38	13.13	12.19
SG2526N-ND	Regulating Pulse Width Modulator	18-Dip	9.20	8.40	7.80
SG2543N-ND	Power Supply Output Supervisory Circuit	16-Dip	8.05	7.35	6.83
SG2842M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47	3.22
SG2843DM-ND	Current Mode PWM Controller	8-SOIC	3.80	3.47	3.22
SG2843M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47	3.22
SG2844DM-ND	Current Mode PWM Controller	8-SOIC	3.80	3.47	3.22
SG2844M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47	3.22
SG2845DM-ND	Current Mode PWM Controller	8-SOIC	3.80	3.47	3.22
SG2845M-ND	Current Mode PWM Controller	8-Dip	3.80	3.47	3.22
SG2846DW-ND	Current Mode PWM Controller	16-SOIC	7.36	6.72	6.24
SG2846N-ND	Current Mode PWM Controller	16-Dip	7.13	6.51	6.05
SG3524D-ND	Regulating Pulse Width Modulator	16-SOIC	1.84	1.68	1.56
SG3524N-ND	Regulating Pulse Width Modulator	16-Dip	1.15	1.05	.98
SG3525ADW-ND	Regulating Pulse Width Modulator	16-SOIC	2.07	1.89	1.76
SG3525AN-ND	Regulating Pulse Width Modulator	16-Dip	1.84	1.68	1.56
SG3526BDW-ND	Regulating Pulse Width Modulator	18-SOIC	4.49	4.10	3.81
SG3526BN-ND	Regulating Pulse Width Modulator	18-Dip	4.26	3.89	3.61
SG3526DW-ND	Regulating Pulse Width Modulator	18-SOIC	4.14	3.78	3.51
SG3526BN-ND	Regulating Pulse Width Modulator	18-Dip	4.26	3.89	3.61
SG3526N-ND	Regulating Pulse Width Modulator	18-Dip	3.91	3.57	3.32
SG3543N-ND	Power Supply Output Supervisory Circuit	16-Dip	5.18	4.73	4.39
SG3842M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
SG3843DM-ND	Current Mode PWM Controller	8-SOIC	1.61	1.47	1.37
SG3843M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
SG3844DM-ND	Current Mode PWM Controller	8-SOIC	1.61	1.47	1.37
SG3844M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
SG3845DM-ND	Current Mode PWM Controller	8-SOIC	1.61	1.47	1.37
SG3845M-ND	Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
SG3846DW-ND	Current Mode PWM Controller	16-SOIC	4.14	3.78	3.51
SG7805AK-ND	5V Positive Fixed Voltage Regulator ***NEW!***	TO-3	14.00	12.60	10.50
SG7805AT-ND	5V Positive Fixed Voltage Regulator ***NEW!***	TO-39	10.00	9.00	7.50
SG7805K-ND	5V Positive Fixed Voltage Regulator ***NEW!***	TO-3	12.00	10.80	9.00
SG7805T-ND	5V Positive Fixed Voltage Regulator ***NEW!***	TO-39	9.00	8.10	6.75
SG7812AK-ND	12V Positive Fixed Voltage Regulator ***NEW!***	TO-3	14.00	12.60	10.50
SG7812AT-ND	12V Positive Fixed Voltage Regulator ***NEW!***	TO-39	10.00	9.00	7.50
SG7812K-ND	12V Positive Fixed Voltage Regulator ***NEW!***	TO-3	12.00	10.80	9.00
SG7812T-ND	12V Positive Fixed Voltage Regulator ***NEW!***	TO-39	9.00	8.10	6.75
SG7815AK-ND	15V Positive Fixed Voltage Regulator ***NEW!***	TO-3	14.00	12.60	10.50
SG7815AT-ND	15V Positive Fixed Voltage Regulator ***NEW!***	TO-39	10.00	9.00	7.50
SG7815K-ND	15V Positive Fixed Voltage Regulator ***NEW!***	TO-3	12.00	10.80	9.00
SG7815T-ND	15V Positive Fixed Voltage Regulator ***NEW!***	TO-39	9.00	8.10	6.75
SG7905AK-ND	5V Negative Fixed Voltage Regulator ***NEW!***	TO-3	16.00	14.40	12.00
SG7905AT-ND	5V Negative Fixed Voltage Regulator ***NEW!***	TO-39	12.00	10.80	9.00
SG7905K-ND	5V Negative Fixed Voltage Regulator ***NEW!***	TO-3	14.00	12.60	10.50
SG7905T-ND	5V Negative Fixed Voltage Regulator ***NEW!***	TO-39	11.00	9.90	8.25
SG7912AK-ND	12V Negative Fixed Voltage Regulator ***NEW!***	TO-3	16.00	14.40	12.00
SG7912AT-ND	12V Negative Fixed Voltage Regulator ***NEW!***	TO-39	12.00	10.80	9.00
SG7912K-ND	12V Negative Fixed Voltage Regulator ***NEW!***	TO-3	14.00	12.60	10.50
SG7912T-ND	12V Negative Fixed Voltage Regulator ***NEW!***	TO-39	11.00	9.90	8.25
SG7915AK-ND	15V Negative Fixed Voltage Regulator ***NEW!***	TO-3	16.00	14.40	12.00
SG7915AT-ND	15V Negative Fixed Voltage Regulator ***NEW!***	TO-39	12.00	10.80	9.00
SG7915K-ND	15V Negative Fixed Voltage Regulator ***NEW!***	TO-3	14.00	12.60	10.50
SG7915T-ND	15V Negative Fixed Voltage Regulator ***NEW!***	TO-39	11.00	9.90	8.25
TL431ACLP-ND	Precision Programmable Reference	TO-92	.62	.57	.53
TL431AIDM-ND	Precision Programmable Reference	8-SOIC	.85	.78	.73
TL431AILP-ND	Precision Programmable Reference	TO-92	.76	.70	.65
TL431BCDM-ND	Precision Programmable Reference	8-SOIC	1.45	1.33	1.23
TL431BCLP-ND	Precision Programmable Reference	TO-92	1.38	1.26	1.17
TL431BIDM-ND	Precision Programmable Reference	8-SOIC	1.77	1.62	1.51
TL431BILP-ND	Precision Programmable Reference	TO-92	1.70	1.56	1.45
TL431CDM-ND	Precision Programmable Reference	8-SOIC	.58	.53	.49
TL431IDM-ND	Precision Programmable Reference	8-SOIC	.71	.66	.61
TL431ILP-ND	Precision Programmable Reference	TO-92	1.01	.92	.86
UC2842ADM-ND	16V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
UC2842AM-ND	16V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32
UC2843AD-ND	8.4V, Current Mode PWM Controller	14-SOIC	4.03	3.68	3.42
UC2843ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
UC2843AM-ND	8.4V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32
UC2844AD-ND	16V, Current Mode PWM Controller	14-SOIC	4.03	3.68	3.42
UC2844ADM-ND	16V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
UC2844AM-ND	16V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32
UC2845AD-ND	8.4V, Current Mode PWM Controller	14-SOIC	4.03	3.68	3.42
UC2845ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	4.03	3.68	3.42
UC2845AM-ND	8.4V, Current Mode PWM Controller	8-Dip	3.91	3.57	3.32
UC3842AD-ND	16V, Current Mode PWM Controller	14-SOIC	1.61	1.47	1.37
UC3842ADM-ND	16V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
UC3842AM-ND	16V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
UC3843ADCT-ND	8.4V, Current Mode PWM Controller	14-SOIC	1.37	1.23	1.05
UC3843ADTR-ND	8.4V, Current Mode PWM Controller	14-SOIC	2275.00/2,500		
UC3843ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
UC3843AM-ND	8.4V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
UC3844AD-ND	16V, Current Mode PWM Controller	14-SOIC	1.61	1.47	1.37
UC3844ADM-ND	16V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
UC3844AM-ND	16V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17
UC3845AD-ND	8.4V, Current Mode PWM Controller	14-SOIC	1.61	1.47	1.37
UC3845ADM-ND	8.4V, Current Mode PWM Controller	8-SOIC	1.73	1.58	1.47
UC3845AM-ND	8.4V, Current Mode PWM Controller	8-Dip	1.38	1.26	1.17

National Semiconductor™ — TELECOMMUNICATIONS ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TP3054N-ND	Enhanced Serial Interface CODEC Filter	16-Dip	5.03	3.82	2.92
TP3054WM-ND	Enhanced Serial Interface CODEC Filter	16-SOIC	4.90	3.73	2.85
TP3410J304-ND	ISDN Basic Access Echo-Cancelling 2B1Q U Transceiver	28-Dip	31.05	28.98	26.91
TP3420AV308-ND	ISDN S/T Interface Device	20-PLCC	11.53	9.89	8.77

LINEAR TECHNOLOGY — AMPLIFIERS

Op Amps

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LF398S8-ND	Precision Sample and Hold Amp	8-SOIC	3.25	2.35	1.74
LF398S8#PBF-ND	Precision Sample and Hold Amp* ***NEW!***	8-SOIC	3.25	2.35	1.74
LT318AN8-ND	15MHz High-Speed Op Amp	8-Dip	3.38	2.25	1.95
LT318AN8#PBF-ND	15MHz High-Speed Op Amp* ***NEW!***	8-Dip	3.38	2.25	1.95
LT1001ACN8-ND	Single Precision Op Amp	8-Dip	5.88	3.92	3.40
LT1001ACN8#PBF-ND	Single Precision Op Amp* ***NEW!***	8-Dip	5.88	3.92	3.40
LT1001CN8-ND	Single Precision Op Amp	8-Dip	2.88	2.10	1.90
LT1001CN8#PBF-ND	Single Precision Op Amp* ***NEW!***	8-Dip	2.88	2.10	1.90
LT1001CS8-ND	Single Precision Op Amp	8-SOIC	3.63	2.42	2.15
LT1001CS8#PBF-ND	Single Precision Op Amp* ***NEW!***	8-SOIC	3.63	2.42	2.15
LT1002CN-ND	Dual Matched Precision Op Amp	14-Dip	5.25	3.50	2.95
LT1002CN#PBF-ND	Dual Matched Precision Op Amp* ***NEW!***	14-Dip	5.25	3.50	2.95
LT1006CN8-ND	5V Single Precision Op Amp	8-Dip	2.88	1.92	1.60
LT1006CN8#PBF-ND	5V Single Precision Op Amp* ***NEW!***	8-Dip	2.88	1.92	1.60
LT1006S8-ND	5V Single Precision Op Amp	8-SOIC	3.50	2.33	1.95
LT1006S8#PBF-ND	5V Single Precision Op Amp* ***NEW!***	8-SOIC	3.50	2.33	1.95
LT1007ACN8-ND	Single Low Noise, High-Speed, Precision Op Amp	8-Dip	8.75	5.83	5.00
LT1007ACN8#PBF-ND	Single Low Noise, High-Speed, Precision Op Amp* ***NEW!***	8-Dip	8.75	5.83	5.00
LT1007CN8-ND	Single Low Noise, High-Speed, Precision Op Amp	8-Dip	3.63	2.42	1.95
LT1007CN8#PBF-ND	Single Low Noise, High-Speed, Precision Op Amp* ***NEW!***	8-Dip	3.63	2.42	1.95
LT1007CS8-ND	Single Low Noise, High-Speed, Precision Op Amp	8-SOIC	4.13	2.75	2.15
LT1007CS8#PBF-ND	Single Low Noise, High-Speed, Precision Op Amp* ***NEW!***	8-SOIC	4.13	2.75	2.15
LT1007IS8-ND	Single Low Noise, High-Speed, Op Amp, Ind. Temp	8-SOIC	5.63	3.75	3.10
LT1007IS8#PBF-ND	Single Low Noise, High-Speed, Op Amp, Ind. Temp.* ***NEW!***	8-SOIC	5.63	3.75	3.10
LT1008CN8-ND	Precision Low Noise Op Amp with Microvoltage Offset	8-Dip	5.50	3.67	3.10
LT1008CN8#PBF-ND	Precision Low Noise Op Amp with Microvoltage Offset* ***NEW!***	8-Dip	5.50	3.67	3.10
LT1010CN8-ND	High-Speed 150mA Power Buffer	8-Dip	4.38	2.92	2.50
LT1010CN8#PBF-ND	High-Speed 150mA Power Buffer* ***NEW!***	8-Dip	4.38	2.92	2.50
LT1010CT-ND	High-Speed 150mA Power Buffer	TO-220-5	5.00	3.33	2.85
LT1010CT#PBF-ND	High-Speed 150mA Power Buffer* ***NEW!***	TO-220-5	5.00	3.33	2.85
LT1012ACN8-ND	Universal Single Precision Low Noise Op Amp	8-Dip	7.13	4.75	3.95
LT1012ACN8#PBF-ND	Universal Single Precision Low Noise Op Amp* ***NEW!***	8-Dip	7.13	4.75	3.95
LT1012ACS8-ND	Universal Single Precision Low Noise Op Amp	8-SOIC	7.13	5.09	4.19
LT1012ACS8#PBF-ND	Universal Single Precision Low Noise Op Amp* ***NEW!***	8-SOIC	7.13	5.09	4.19
LT1012CN8-ND	Universal Single Precision Low Noise Op Amp	8-Dip	5.00	3.33	2.75
LT1012S8-ND	Universal Single Precision Low Noise Op Amp	8-SOIC	6.00	4.00	3.45
LT1012S8#PBF-ND	Universal Single Precision Low Noise Op Amp* ***NEW!***	8-SOIC	6.00	4.00	3.45
LT1013ACN8-ND	Dual Precision Op Amp	8-Dip	7.13	4.75	3.95
LT1013ACN8#PBF-ND	Dual Precision Op Amp* ***NEW!***	8-Dip	7.13	4.75	3.95
LT1013CN8-ND	Dual Precision Op Amp, Vos=300µV	8-Dip	4.25	2.83	2.40
LT1013CN8#PBF-ND	Dual Precision Op Amp, Vos=300µV*	8-Dip	4.25	2.83	2.40
LT1013DN8-ND	Dual Precision Op Amp, Vos=800µV	8-Dip	3.50	2.33	1.95
LT1013DN8#PBF-ND	Dual Precision Op Amp, Vos=800µV* ***NEW!***	8-Dip	3.50	2.33	1.95
LT1013DS8-ND	Dual Precision Op Amp, Vos=800µV	8-SOIC	4.00	2.67	2.30
LT1013DS8#PBF-ND	Dual Precision Op Amp, Vos=800µV* ***NEW!***	8-SOIC	4.00	2.67	2.30
LT1014ACN-ND	Quad Precision Op Amp	14-Dip	12.75	8.50	7.10
LT1014ACN#PBF-ND	Quad Precision Op Amp* ***NEW!***	14-Dip	12.75	8.50	7.10
LT1014CNLT-ND	Quad Precision Op Amp, Vos=300µV	14-Dip	9.38	6.25	5.35
LT1014CN#PBF-ND	Quad Precision Op Amp* ***NEW!***	14-Dip	9.38	6.25	5.35

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1014DNLT-ND	Quad Precision Op Amp, Vos=800µV	14-Dip	6.25	4.17	3.60
LT1014DN#PBF-ND	Quad Precision Op Amp* ***NEW!***	14-Dip	6.25	4.17	3.60
LT1014DSW-ND	Quad Precision Op Amp	16-SOIC	7.38	4.92	4.15
LT1014DSW#PBF-ND	Quad Precision Op Amp* ***NEW!***	16-SOIC	7.38	4.92	4.15
LT1014ISW#PBF-ND	Quad Precision Op Amp* ***NEW!***	16-SOIC	9.63	6.42	5.40
LT1022CN8-ND	High-Speed Precision JFET Op Amp	8-Dip	5.00	3.33	2.95
LT1022CN8#PBF-ND	High-Speed Precision JFET Op Amp* ***NEW!***	8-Dip	5.00	3.33	2.95
LT1028ACN8-ND	Single, Ultra Low Noise Op Amp	8-Dip	13.13	8.75	7.55
LT1028ACN8#PBF-ND	Single, Ultra Low Noise Op Amp* ***NEW!***	8-Dip	13.13	8.75	7.55
LT1028CN8-ND	Single, Ultra Low Noise Op Amp	8-Dip	8.63	5.75	4.95
LT1028CN8#PBF-ND	Single, Ultra Low Noise Op Amp* ***NEW!***	8-Dip	8.63	5.75	4.95
LT1028CS8-ND	Single, Ultra Low Noise Op Amp	8-SOIC	8.63	5.75	4.95
LT1028CS8#PBF-ND	Single, Ultra Low Noise Op Amp* ***NEW!***	8-SOIC	8.63	5.75	4.95
LT1037ACN8-ND	Single, Low Noise, High-Speed Precision Op Amp	8-Dip	8.75	5.83	5.00
LT1037ACN8#PBF-ND	Single, Low Noise, High-Speed Precision Op Amp* ***NEW!***	8-Dip	8.75	5.83	5.00
LT1037CN8-ND	Single, Low Noise, High-Speed Precision Op Amp	8-Dip	3.63	2.42	1.95
LT1037CN8#PBF-ND	Single, Low Noise, High-Speed Precision Op Amp* ***NEW!***	8-Dip	3.63	2.42	1.95
LT1037CS8-ND	Single, Low Noise, High-Speed Precision Op Amp	8-SOIC	4.13	2.75	2.15
LT1037CS8#PBF-ND	Single, Low Noise, High-Speed Precision Op Amp* ***NEW!***	8-SOIC	4.13	2.75	2.15
LT1055CN8-ND	Precision High-Speed JFET Op Amp	8-Dip	3.38	2.25	1.95
LT1055CN8#PBF-ND	Precision High-Speed JFET Op Amp* ***NEW!***	8-Dip	3.38	2.25	1.95
LT1056CN8-ND	Precision High-Speed JFET Op Amp	8-Dip	3.38	2.25	1.95
LT1056CN8#PBF-ND	Precision High-Speed JFET Op Amp* ***NEW!***	8-Dip	3.38	2.25	1.95
LT1056S8-ND	Precision High-Speed JFET Op Amp	8-SOIC	4.00	2.67	2.50
LT1056S8#PBF-ND	Precision High-Speed JFET Op Amp* ***NEW!***	8-SOIC	4.00	2.67	2.50
LT1057ACN8-ND	Dual Precision JFET Op Amp, 450µV	8-Dip	8.75	5.83	4.95
LT1057ACN8#PBF-ND	Dual Precision JFET Op Amp, 450µV* ***NEW!***	8-Dip	8.75	5.83	4.95
LT1057CN8-ND	Dual Precision JFET Op Amp, 600µV	8-Dip	4.50	3.00	2.55
LT1057CN8#PBF-ND	Dual Precision JFET Op Amp, 600µV* ***NEW!***	8-Dip	4.50	3.00	2.55
LT1057S8-ND	Dual Precision JFET Op Amp	8-SOIC	4.75	3.17	2.95
LT1058ACN-ND	Quad Precision JFET Op Amp	14-Dip	16.50	11.00	9.55
LT1058ACN#PBF-ND	Quad Precision JFET Op Amp* ***NEW!***	14-Dip	16.50	11.00	9.55
LT1058CN-ND	Quad Precision JFET Op Amp	14-Dip	7.63	5.08	4.35
LT1058CN#PBF-ND	Quad Precision JFET Op Amp* ***NEW!***	14-Dip	7.63	5.08	4.35
LT1058ISW-ND	Quad Precision JFET Op Amp	16-SOIC	17.88	11.92	10.30
LT1058ISW#PBF-ND	Quad Precision JFET Op Amp* ***NEW!***	16-SOIC	17.88	11.92	10.30
LT1058SW-ND	Quad Precision JFET Op Amp	16-SOIC	8.88	5.92	5.00
LT1058SW#PBF-ND	Quad Precision JFET Op Amp* ***NEW!***	16-SOIC	8.88	5.92	5.00
LT1077ACN8-ND	Micropower Precision Single Op Amp	8-Dip	5.63	3.75	3.20
LT1077ACN8#PBF-ND	Micropower Precision Single Op Amp* ***NEW!***	8-Dip	5.63	3.75	3.20
LT1077CN8-ND	Micropower Precision Single Op Amp	8-Dip	3.13	2.08	1.65
LT1077CN8#PBF-ND	Micropower Precision Single Op Amp* ***NEW!***	8-Dip	3.13	2.08	1.65
LT1077IS8-ND	Micropower Precision Single Op Amp	8-SOIC	4.38	2.91	2.40
LT1077IS8#PBF-ND	Micropower Precision Single Op Amp* ***NEW!***	8-SOIC	4.38	2.91	2.40
LT1077S8-ND	Micropower Precision Single Op Amp	8-SOIC	3.63	2.42	2.05
LT1077S8#PBF-ND	Micropower Precision Single Op Amp* ***NEW!***	8-SOIC	3.63	2.42	2.05
LT1078ACN8-ND	Micropower Precision Dual Op Amp	8-Dip	9.00	6.00	5.15
LT1078ACN8#PBF-ND	Micropower Precision Dual Op Amp* ***NEW!***	8-Dip	9.00	6.00	5.15
LT1078CN8-ND	Micropower Precision-Dual Op Amp	8-Dip	5.00	3.33	2.80
LT1078CN8#PBF-ND	Micropower Precision-Dual Op Amp* ***NEW!***	8-Dip	5.00	3.33	2.80
LT1078IN8-ND	Micropower Precision Dual Op Amp	8-Dip	6.50	4.33	3.75
LT1078IN8#PBF-ND	Micropower Precision Dual Op Amp* ***NEW!***	8-Dip	6.50	4.33	3.75
LT1078IS8-ND	Micropower Precision Dual Op Amp	8-SOIC	8.38	5.60	4.85
LT1078IS8#PBF-ND	Micropower Precision Dual Op Amp* ***NEW!***	8-SOIC	8.38	5.60	4.85
LT1078S8-ND	Micropower Precision Dual Op Amp	8-SOIC	6.50	4.35	3.65
LT1078S8#PBF-ND	Micropower Precision Dual Op Amp* ***NEW!***	8-SOIC	6.50	4.35	3.65
LT1079ACN-ND	Micropower Precision Quad Op Amp	14-Dip	11.25	7.50	6.50
LT1079ACN#PBF-ND	Micropower Precision Quad Op Amp* ***NEW!***	14-Dip	11.25	7.50	6.50
LT1079CN-ND	Micropower Precision Quad Op Amp	14-Dip	6.25	4.17	3.50
LT1079CN#PBF-ND	Micropower Precision Quad Op Amp* ***NEW!***	14-Dip	6.25	4.17	3.50
LT1079IN-ND	Micropower Precision Quad Op Amp, Ind. Temp	14-Dip	7.75	5.17	4.45
LT1079IN#PBF-ND	Micropower Precision Quad Op Amp, Ind. Temp.* ***NEW!***	14-Dip	7.75	5.17	4.45
LT1079ISW-ND	Micropower Precision Quad Op Amp, Ind. Temp	16-SOIC	10.13	6.75	5.70
LT1079ISW#PBF-ND	Micropower Precision Quad Op Amp, Ind. Temp.* ***NEW!***	16-SOIC	10.13	6.75	5.70
LT1079SW-ND	Micropower Precision Quad Op Amp	16-SOIC	8.13	5.42	4.55
LT1079SW#PBF-ND	Micropower Precision Quad Op Amp* ***NEW!***	16-SOIC	8.13	5.42	4.55
LT1097CN8-ND	Low Cost, Low Power Precision Op Amp	8-Dip	3.13	2.08	1.80
LT1097CN8#PBF-ND	Low Cost, Low Power Precision Op Amp* ***NEW!***	8-Dip	3.13	2.05	1.80
LT1097S8-ND	Low Cost, Low Power Precision Op Amp	8-SOIC	3.38	2.25	1.95
LT1097S8#PBF-ND	Low Cost, Low Power Precision Op Amp* ***NEW!***	8-SOIC	3.38	2.25	1.95
LT1112ACN8-ND	Dual Low Power Precision Op Amp	8-Dip	6.25	4.17	3.50
LT1112ACN8#PBF-ND	Dual Low Power Precision Op Amp* ***NEW!***	8-Dip	6.25	4.17	3.50
LT1112CN8-ND	Dual Low Power Precision Op Amp	8-Dip	4.38	2.92	2.45
LT1112CN8#PBF-ND	Dual Low Power Precision Op Amp* ***NEW!***	8-Dip	4.38	2.92	2.45
LT1112IS8-ND	Dual Low Power Precision Op Amp	8-SOIC	5.38	3.57	3.00
LT1112IS8#PBF-ND	Dual Low Power Precision Op Amp* ***NEW!***	8-SOIC	5.38	3.30	3.00
LT1112S8-ND	Dual Low Power Precision Op Amp	8-SOIC	4.88	3.25	2.65
LT1112S8#PBF-ND	Dual Low Power Precision Op Amp*	8-SOIC	4.88	3.25	2.65
LT1113CN8-ND	Dual Low Noise JFET Input Precision Op Amp	8-Dip	6.00	4.00	3.25
LT1113CN8#PBF-ND	Dual Low Noise JFET Input Precision Op Amp* ***NEW!***	8-Dip	6.00	4.00	3.25
LT1113CS8-ND	Dual Low Noise JFET Input Precision Op Amp	8-SOIC	6.50	4.33	3.55
LT1113CS8#PBF-ND	Dual Low Noise JFET Input Precision Op Amp* ***NEW!***	8-SOIC	6.50	4.33	3.55
LT1114ACN-ND	Quad Low Power Precision Op Amp	14-Dip	12.13	8.08	6.50
LT1114CN-ND	Quad Low Power Precision Op Amp	14-Dip	8.50	5.67	4.50
LT1114CN#PBF-ND	Quad Low Power Precision Op Amp* ***NEW!***	14-Dip	8.50	5.67	4.50
LT1114IN-ND	Quad Low Power Precision Op Amp	14-Dip	9.38	6.23	5.35
LT1114S-ND	Quad Low Power Precision Op Amp	16-SOIC	8.88	5.92	4.75
LT1114S#PBF-ND	Quad Low Power Precision Op Amp* ***NEW!***	16-SOIC	8.88	5.92	4.75
LT1115CN8-ND	Ultra Low Noise Audio Op Amp	8-Dip	5.63	3.74	2.95
LT1115CN8#PBF-ND	Ultra Low Noise Audio Op Amp* ***NEW!***	8-Dip	5.63	3.74	2.95
LT1122CCN8-ND	Fast Settling JFET Input Op Amp	8-Dip	5.25	3.50	2.95
LT1122CS8-ND	Fast Settling JFET Input Op Amp	8-SOIC	5.75	3.83	3.25
LT1122CS8#PBF-ND	Fast Settling JFET Input Op Amp* ***NEW!***	8-SOIC	5.75	3.83	3.25
LT1122DCN8-ND	Fast Settling JFET Input Op Amp	8-Dip	4.50	3.00	2.50
LT1122DCN8#PBF-ND	Fast Settling JFET Input Op Amp* ***NEW!***	8-Dip	4.50	3.00	2.50
LT1122DS8-ND	Fast Settling JFET Input Op Amp	8-SOIC	4.88	3.25	2.70
LT1122DS8#PBF-ND	Fast Settling JFET Input Op Amp* ***NEW!***	8-SOIC	4.88	3.25	2.70
LT1124CN8-ND	Dual, Low Noise, High-Speed Precision Op Amp	8-Dip	6.38	4.25	3.65
LT1124CN8#PBF-ND	Dual, Low Noise, High-Speed Precision Op Amp* ***NEW!***	8-Dip	6.38	4.25	3.65
LT1124CS8-ND	Dual, Low Noise, High-Speed Precision Op Amp	8-SOIC	6.75	4.50	3.85
LT1124CS8#PBF-ND	Dual, Low Noise, High-Speed Precision Op Amp* ***NEW!***	8-SOIC	6.75	4.50	3.85
LT1125ACN-ND	Quad, Low Noise, High-Speed Precision Op Amp	14-Dip	13.25	8.83	7.50
LT1125CN-ND	Quad, Low Noise, High-Speed Precision Op Amp	14-Dip	10.50	7.00	5.95
LT1125CN#PBF-ND	Quad, Low Noise, High-Speed Precision Op Amp* ***NEW!***	14-Dip	10.50	7.00	5.95
LT1125CSW-ND	Quad, Low Noise, High-Speed Precision Op Amp	16-SOIC	11.50	7.67	6.50
LT1125CSW#PBF-ND	Quad, Low Noise, High-Speed Precision Op Amp* ***NEW!***	16-SOIC	11.50	7.67	6.50
LT1126CN8-ND	Dual, Decompensated, Low Noise, High-Speed Op Amp	8-Dip	6.38	4.25	3.65
LT1126CN8#PBF-ND	Dual, Decompensated, Low Noise, High-Speed Op Amp* ***NEW!***	8-Dip	6.38	4.25	3.65
LT1126CS8-ND	Dual, Decompensated, Low Noise, High-Speed Op Amp	8-SOIC	6.75	4.50	3.85
LT1126CS8#PBF-ND	Dual, Decompensated, Low Noise, High-Speed Op Amp* ***NEW!***	8-SOIC	6.75	4.50	3.85
LT1127CN-ND	Quad, Decompensated, Low Noise, High-Speed Op Amp	14-Dip	10.50	7.00	5.95
LT1127CSW-ND	Quad, Decompensated, Low Noise, High-Speed Op Amp	16-SOIC	11.50	7.67	6.50
LT1127CSW#PBF-ND	Quad, Decompensated, Low Noise, High-Speed Op Amp* ***NEW!***	16-SOIC	11.50	7.67	6.50
LT1128ACN8-ND	Single, Low Noise, High-Speed Op Amp	8-Dip	13.13	8.75	7.55
LT1128CN8-ND	Single, Low Noise, High-Speed Op Amp	8-Dip	8.63	5.75	4.95
LT1128CN8#PBF-ND	Single, Low Noise, High-Speed Op Amp* ***NEW!***	8-Dip	8.63	5.75	4.95
LT1128CS8-ND	Single, Low Noise, High-Speed Op Amp	8-SOIC	8.63	5.75	4.95
LT1128CS8#PBF-ND	Single, Low Noise, High-Speed Op Amp* ***NEW!***	8-SOIC	8.63	5.75	4.95
LT1169CN8-ND	Dual Low Noise JFET Op Amp	8-Dip	7.25	4.83	3.95
LT1169CN8#PBF-ND	Dual Low Noise JFET Op Amp* ***NEW!***	8-Dip	7.25	4.83	3.95
LT1169CS8-ND	Dual Low Noise JFET Op Amp	8-SOIC	7.75	5.15	4.25
LT1169CS8#PBF-ND	Dual Low Noise JFET Op Amp* ***NEW!***	8-SOIC	7.75	5.00	4.25
LT1178ACN8-ND	Dual Micropower Precision Dual Op Amp	8-Dip	10.00	6.67	5.60
LT1178CN8-ND	Dual Micropower Precision Dual Op Amp	8-Dip	5.50	3.67	3.00
LT1178CN8#PBF-ND	Dual Micropower Precision Dual Op Amp* ***NEW!***	8-Dip	5.50	3.67	3.00
LT1178IN8-ND	Dual Micropower Precision Dual Op Amp, Ind. Temp	8-Dip	6.88	4.58	3.95
LT1178IN8#PBF-ND	Dual Micropower Precision Dual Op Amp, Ind. Temp.* ***NEW!***	8-Dip	6.88	4.58	3.95
LT1178S8-ND	Dual Micropower Precision Dual Op Amp	8-SOIC	7.00	4.65	3.85
LT1178S8#PBF-ND	Dual Micropower Precision Dual Op Amp* ***NEW!***	8-SOIC	7.00	4.65	3.85
LT1179ACN-ND	Quad Micropower Precision Op Amp	14-Dip	12.38	8.25	6.90
LT1179CN-ND	Quad Micropower Precision Op Amp	14-Dip	6.88	4.58	3.90
LT1179CN#PBF-ND	Quad Micropower Precision Op Amp* ***NEW!***	14-Dip	6.88	4.58	3.90
LT1179IN-ND	Quad Micropower Precision Op Amp, Ind. Temp	14-Dip	8.50	5.67	4.85
LT1179SW-ND	Quad Micropower Precision Op Amp	16-SOIC	8.75	5.83	5.00
LT1179SW#PBF-ND	Quad Micropower Precision Op Amp* ***NEW!***	16-SOIC	8.75	5.83	5.00
LT1191CN8-ND	Single, Ultra High-Speed Video Op Amp	8-Dip	3.25	2.17	1.73
LT1191CS8-ND	Single, Ultra High-Speed Video Op Amp	8-SOIC	3.75	2.50	1.95
LT1191CS8#PBF-ND	Single, Ultra High-Speed Video Op Amp* ***NEW!***	8-SOIC	3.75	2.50	1.95
LT1195CN8-ND	Low Power, High-Speed Op Amp	8-Dip	3.25	2.17	1.73
LT1206CN8-ND	250mA Out, 60MHz Current Feedback Amp	8-Dip	6.25	4.17	3.45
LT1206CN8#PBF-ND	250mA Out, 60MHz Current Feedback Amp* ***NEW!***	8-Dip	6.25	4.17	3.45
LT1206CR-ND	250mA Out, 60MHz Current Feedback Amp	7-DD	8.13	5.42	4.45
LT1206CR#PBF-ND	250mA Out, 60MHz Current Feedback Amp* ***NEW!***	7-DD	8.13	5.42	4.45
LT1206CS8-ND	250mA Out, 60MHz Current Feedback Amp	8-SOIC	7.25	4.83	3.95
LT1206CS8#PBF-ND	250mA Out, 60MHz Current Feedback Amp* ***NEW!***	8-SOIC	7.25	4.83	3.95
LT1206CT7-ND	250mA Out, 60MHz Current Feedback Amp	TO-220-7	8.13	5.42	4.45
LT1206CT7#PBF-ND	250mA Out, 60MHz Current Feedback Amp* ***NEW!***	TO-220-7	8.13	5.42	4.45
LT1207CS-ND	Dual, 250mA Out, 60MHz Current Feedback Amp	16-SOIC	12.88	8.60	7.15
LT1207CS#PBF-ND	Dual, 250mA Out, 60MHz Current Feedback Amp* ***NEW!***	16-SOIC	12.88	8.60	7.15
LT1208CN8-ND	Dual, High-Speed Op Amp	8-Dip	7.75	5.17	4.45
LT1208CS8-ND	Dual, High-Speed Op Amp	8-SOIC	8.75	5.83	5.00
LT1208CS8#PBF-ND	Dual, High-Speed Op Amp* ***NEW!***	8-SOIC	8.75	5.83	5.00
LT1209CN-ND	Quad, High-Speed Op Amp	14-Dip	12.13	8.08	6.90
LT1210CT7-ND	1.1A, 35MHz Current Feedback Amp	TO-220-7	12.88	8.60	7.10
LT1210CT7#PBF-ND	1.1A, 35MHz Current Feedback Amp* ***NEW!***	TO-220-7	12.88	8.60	7.10
LT1211CN8-ND	14MHz, Single Supply, Dual Precision Op Amp	8-Dip	6.13	4.07	3.07
LT1211CN8#PBF-ND	14MHz, Single Supply, Dual Precision Op Amp* ***NEW!***	8-Dip	6.13	4.07	3.07
LT1211CS8-ND	14MHz, Single Supply, Dual Precision Op Amp	8-SOIC	6.63	4.40	3.32
LT1211CS8#PBF-ND	14MHz, Single Supply, Dual Precision Op Amp* ***NEW!***	8-SOIC	6.63	4.40	3.32
LT1211IS8-ND	14MHz, Single, Dual Precision Op Amp, Ind. Temp	8-SOIC	7.50	4.98	3.75
LT1211IS8#PBF-ND	14MHz, Single, Dual Precision Op Amp, Ind. Temp.* ***NEW!***	8-SOIC	7.50	4.98	3.75
LT1212CN-ND	14MHz, Single Supply, Quad Precision Op Amp	14-Dip	11.00	7.31	5.50
LT1212CN#PBF-ND	14MHz, Single Supply, Quad Precision Op Amp* ***NEW!***	14-Dip	11.00	7.31	5.50
LT1212CS-ND	14MHz, Single Supply, Quad Precision Op Amp	16-SOIC	11.88	7.89	5.94
LT1212CS#PBF-ND	14MHz, Single Supply, Quad Precision Op Amp* ***NEW!***	16-SOIC	11.88	7.89	5.94
LT1212IS-ND	14MHz, Single, Quad Precision Op Amp, Ind. Temp	16-SOIC	13.25	8.80	6.63
LT1212IS#PBF-ND	14MHz, Single, Quad Precision Op Amp, Ind. Temp.* ***NEW!***	16-SOIC	13.25	8.80	6.63
LT1213CN8-ND	28MHz, Single Supply, Dual Precision Op Amp	8-Dip	6.13	4.07	3.07
LT1213CN8#PBF-ND	28MHz, Single Supply, Dual Precision Op Amp* ***NEW!***	8-Dip	6.13	4.07	3.07
LT1213CS8-ND	28MHz, Single Supply, Dual Precision Op Amp	8-SOIC	6.63	4.40	3.32
LT1213CS8#PBF-ND	28MHz, Single Supply, Dual Precision Op Amp* ***NEW!***	8-SOIC	6.63	4.40	3.32
LT1214CN-ND	28MHz, Single Supply, Quad Precision Op Amp	14-Dip	11.00	7.31	5.50
LT1214CN#PBF-ND	28MHz, Single Supply, Quad Precision Op Amp* ***NEW!***	14-Dip	11.00	7.31	5.50
LT1214CS-ND	28MHz, Single Supply, Quad Precision Op Amp	16-SOIC	11.88	7.89	5.94
LT1214CS#PBF-ND	28MHz, Single Supply, Quad Precision Op Amp* ***NEW!***	16-SOIC	11.88	7.89	5.94
LT1215CN8-ND	23MHz, Single Supply, Dual Precision Op Amp	8-Dip	6.13	4.07	3.07
LT1215CN8#PBF-ND	23MHz, Single Supply, Dual Precision Op Amp* ***NEW!***	8-Dip	6.13	4.07	3.07
LT1215CS8-ND	23MHz, Single Supply, Dual Precision Op Amp	8-SOIC	6.63	4.40	3.32
LT1215CS8#PBF-ND	23MHz, Single Supply, Dual Precision Op Amp* ***NEW!***	8-SOIC	6.63	4.40	3.32
LT1216CN-ND	23MHz, Single Supply, Quad Precision Op Amp	14-Dip	11.00	7.31	5.50
LT1216CS-ND	23MHz, Single Supply, Quad Precision Op Amp	16-SOIC	11.88	7.89	5.94
LT1216CS#PBF-ND	23MHz, Single Supply, Quad Precision Op Amp* ***NEW!***	16-SOIC	11.88	7.89	5.94
LT1218CN8-ND	Precision Rail-to-Rail In/Out Op Amp	8-Dip	9.63	6.40	4.95
LT1218CS8-ND	Precision Rail-to-Rail In/Out Op Amp	8-SOIC	10.00	6.64	5.15
LT1218CS8#PBF-ND	Precision Rail-to-Rail In/Out Op Amp* ***NEW!***	8-SOIC	10.00	6.64	5.15
LT1218LCN8-ND	Precision Rail-to-Rail In/Out Op Amp	8-Dip	5.88	3.91	3.15
LT1218LCS8-ND	Precision Rail-to-Rail In/Out Op Amp	8-SOIC	6.13	4.07	3.30
LT1218LCS8#PBF-ND	Precision Rail-to-Rail In/Out Op Amp* ***NEW!***	8-SOIC	6.13	4.07	3.30
LT1219CS8-ND	Precision Rail-to-Rail In/Out Op Amp	8-SOIC	10.00	6.64	5.15
LT1220CN8-ND	45MHz, High-Speed Op Amp	8-Dip	6.25	4.17	3.50
LT1220CN8#PBF-ND	45MHz, High-Speed Op Amp* ***NEW!***	8-Dip	6.25	4.17	3.50
LT1220CS8-ND	45MHz, High-Speed Op Amp	8-SOIC	6.88	4.58	3.75
LT1220CS8#PBF-ND	45MHz, High-Speed Op Amp* ***NEW!***	8-SOIC	6.88	4.58	3.75
LT1221CN8-ND	150MHz, High-Speed Op Amp	8-Dip	6.25	4.17	3.35
LT1221CN8#PBF-ND	150MHz, High-Speed Op Amp* ***NEW!***	8-Dip	6.25	4.17	3.35
LT1221CS8-ND	150MHz, High-Speed Op Amp	8-SOIC	6.88	4.57	3.50
LT1221CS8#PBF-ND	150MHz, High-Speed Op Amp* ***NEW!***	8-SOIC	6.88	4.57	3.50
LT1222CN8-ND	500MHz, High-Speed Op Amp	8-Dip	6.25	4.17	3.50
LT1222CN8#PBF-ND	500MHz, High-Speed Op Amp* ***NEW!***	8-Dip	6.25	4.17	3.50
LT1222CS8-ND	500MHz, High-Speed Op Amp	8-SOIC	6.88	4.58	3.75
LT1222CS8#PBF-ND	500MHz, High-Speed Op Amp* ***NEW!***	8-SOIC	6.88	4.58	3.75
LT1223CN8-ND	100MHz, Current Feedback Op Amp	8-Dip	5.38	3.58	2.85

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1223CN8#PBF-ND	100MHz, Current Feedback Op Amp* **NEW!**	8-Dip	5.38	3.58	2.85
LT1223CS8-ND	100MHz, Current Feedback Op Amp	8-SOIC	6.13	4.08	3.40
LT1223CS8#PBF-ND	100MHz, Current Feedback Op Amp* **NEW!**	8-SOIC	6.13	4.08	3.40
LT1224CN8-ND	45MHz, High-Speed Op Amp	8-Dip	5.38	3.58	2.85
LT1224CS8-ND	45MHz, High-Speed Op Amp	8-SOIC	6.13	4.07	3.30
LT1224CS8#PBF-ND	45MHz, High-Speed Op Amp* **NEW!**	8-SOIC	6.13	4.07	3.30
LT1226CN8-ND	High-Speed, Low Noise Op Amp	8-Dip	5.38	3.58	2.85
LT1226CN8#PBF-ND	High-Speed, Low Noise Op Amp* **NEW!**	8-Dip	5.38	3.58	2.85
LT1226CS8-ND	High-Speed, Low Noise Op Amp	8-SOIC	6.13	4.08	3.40
LT1226CS8#PBF-ND	High-Speed, Low Noise Op Amp* **NEW!**	8-SOIC	6.13	4.08	3.40
LT1227CN8-ND	140MHz, Video Current Feedback Amp	8-Dip	4.63	3.08	2.45
LT1227CN8#PBF-ND	140MHz, Video Current Feedback Amp* **NEW!**	8-Dip	4.63	3.08	2.45
LT1227CS8-ND	140MHz, Video Current Feedback Amp	8-SOIC	5.38	3.58	3.25
LT1227CS8#PBF-ND	140MHz, Video Current Feedback Amp* **NEW!**	8-SOIC	5.38	3.58	3.25
LT1228CN8-ND	100MHz, Current Feedback Amp with DC Gain	8-Dip	6.88	4.58	3.95
LT1228CS8-ND	100MHz, Current Feedback Amp with DC Gain	8-SOIC	7.75	5.17	4.30
LT1228CS8#PBF-ND	100MHz, Current Feedback Amp with DC Gain* **NEW!**	8-SOIC	7.75	5.17	4.30
LT1229CN8-ND	100MHz, Dual Current Feedback Op Amp	8-Dip	6.88	4.58	3.95
LT1229CN8#PBF-ND	100MHz, Dual Current Feedback Op Amp* **NEW!**	8-Dip	6.88	4.58	3.95
LT1229CS8-ND	100MHz, Dual Current Feedback Op Amp	8-SOIC	7.75	5.17	4.30
LT1229CS8#PBF-ND	100MHz, Dual Current Feedback Op Amp* **NEW!**	8-SOIC	7.75	5.17	4.30
LT1230CS-ND	100MHz, Quad Current Feedback Op Amp	14-SOIC	13.75	9.13	7.50
LT1230CS#PBF-ND	100MHz, Quad Current Feedback Op Amp* **NEW!**	14-SOIC	13.75	9.13	7.50
LT1251CN-ND	40MHz Video Fader and DC Gain Controlled Amp	14-Dip	11.00	7.33	6.00
LT1252CN8-ND	Low Cost Single Video Amplifier	8-Dip	3.25	2.17	1.75
LT1252CN8#PBF-ND	Low Cost Single Video Amplifier* **NEW!**	8-Dip	3.25	2.17	1.75
LT1252CS8-ND	Low Cost Single Video Amplifier	8-SOIC	3.50	2.33	1.85
LT1252CS8#PBF-ND	Low Cost Single Video Amplifier* **NEW!**	8-SOIC	3.50	2.33	1.85
LT1253CN8-ND	Low Cost Dual Video Amplifier	8-Dip	4.50	3.00	2.49
LT1253CN8#PBF-ND	Low Cost Dual Video Amplifier* **NEW!**	8-Dip	4.50	3.00	2.49
LT1253CS8-ND	Low Cost Dual Video Amplifier	8-SOIC	4.88	3.25	2.60
LT1253CS8#PBF-ND	Low Cost Dual Video Amplifier* **NEW!**	8-SOIC	4.88	3.25	2.60
LT1254CN-ND	Low Cost Quad Video Amplifier	14-Dip	8.13	5.42	4.49
LT1254CN#PBF-ND	Low Cost Quad Video Amplifier* **NEW!**	14-Dip	8.13	5.42	4.49
LT1254CS-ND	Low Cost Quad Video Amplifier	14-SOIC	8.63	5.75	4.80
LT1254CS#PBF-ND	Low Cost Quad Video Amplifier* **NEW!**	14-SOIC	8.63	5.75	4.80
LT1256CN-ND	40MHz Video Fader and DC Gain Controlled Amp	14-Dip	11.00	7.33	6.00
LT1256CS-ND	40MHz Video Fader and DC Gain Controlled Amp	14-SOIC	11.63	7.75	6.30
LT1256CS#PBF-ND	40MHz Video Fader and DC Gain Controlled Amp* **NEW!**	14-SOIC	11.63	7.75	6.30
LT1259CN-ND	Dual Current Feedback Amp with Shutdown	14-Dip	4.63	3.08	2.55
LT1259CS-ND	Dual Current Feedback Amp with Shutdown	14-SOIC	4.75	3.16	2.65
LT1259CS#PBF-ND	Dual Current Feedback Amp with Shutdown* **NEW!**	14-SOIC	4.75	3.16	2.65
LT1260CN-ND	Triple Current Feedback Amp with Shutdown	16-Dip	4.88	3.24	2.70
LT1260CN#PBF-ND	Triple Current Feedback Amp with Shutdown* **NEW!**	16-Dip	4.88	3.24	2.70
LT1260CS-ND	Triple Current Feedback Amp with Shutdown	16-SOIC	5.13	3.41	2.85
LT1260CS#PBF-ND	Triple Current Feedback Amp with Shutdown* **NEW!**	16-SOIC	5.13	3.41	2.85
LT1351CMS8-ND	Low Power, High-Speed, 3MHz Op Amp	8-MSOP	5.13	3.41	2.80
LT1351CMS8#PBF-ND	Low Power, High-Speed, 3MHz Op Amp* **NEW!**	8-MSOP	5.13	3.41	2.80
LT1351CS8-ND	Low Power, High-Speed, 3MHz Op Amp	8-SOIC	4.75	3.16	2.60
LT1351CS8#PBF-ND	Low Power, High-Speed, 3MHz Op Amp* **NEW!**	8-SOIC	4.75	3.16	2.60
LT1352CS8-ND	Dual, Very Low Power, High-Speed, 3MHz Op Amp	8-SOIC	7.63	5.10	4.25
LT1352CS8#PBF-ND	Dual, Very Low Power, High-Speed, 3MHz Op Amp* **NEW!**	8-SOIC	7.63	5.10	4.25
LT1352IN8-ND	Dual, Very Low Power, High-Speed, 3MHz Op Amp	8-Dip	8.38	5.98	4.93
LT1352IS8-ND	Dual, Very Low Power, High-Speed, 3MHz Op Amp	8-SOIC	9.13	6.52	5.37
LT1352IS8#PBF-ND	Dual, Very Low Power, High-Speed, 3MHz Op Amp* **NEW!**	8-SOIC	9.13	6.52	5.37
LT1353CS-ND	Quad, Very Low Power, High-Speed, 3MHz Op Amp	14-SOIC	12.63	8.40	6.95
LT1353CS#PBF-ND	Quad, Very Low Power, High-Speed, 3MHz Op Amp* **NEW!**	14-SOIC	12.63	8.40	6.95
LT1354CN8-ND	Low Power, High-Speed, 12MHz Op Amp	8-Dip	4.25	2.83	2.35
LT1354CN8#PBF-ND	Low Power, High-Speed, 12MHz Op Amp* **NEW!**	8-Dip	4.25	2.83	2.35
LT1354CS8-ND	Low Power, High-Speed, 12MHz Op Amp	8-SOIC	4.75	3.17	2.60
LT1354CS8#PBF-ND	Low Power, High-Speed, 12MHz Op Amp* **NEW!**	8-SOIC	4.75	3.17	2.60
LT1355CN8-ND	Dual, Low Power, High-Speed, 12MHz Op Amp	8-Dip	7.00	4.67	3.95
LT1355CN8#PBF-ND	Dual, Low Power, High-Speed, 12MHz Op Amp* **NEW!**	8-Dip	7.00	4.67	3.95
LT1355CS8-ND	Dual, Low Power, High-Speed, 12MHz Op Amp	8-SOIC	7.63	5.10	4.25
LT1355CS8#PBF-ND	Dual, Low Power, High-Speed, 12MHz Op Amp* **NEW!**	8-SOIC	7.63	5.10	4.25
LT1356CN-ND	Quad, Low Power, High-Speed, 12MHz Op Amp	14-Dip	11.75	7.83	6.70
LT1356CN#PBF-ND	Quad, Low Power, High-Speed, 12MHz Op Amp* **NEW!**	14-Dip	11.75	7.83	6.70
LT1356CS-ND	Quad, Low Power, High-Speed, 12MHz Op Amp	16-SOIC	12.63	8.40	6.95
LT1356CS#PBF-ND	Quad, Low Power, High-Speed, 12MHz Op Amp* **NEW!**	16-SOIC	12.63	8.40	6.95
LT1357CN8-ND	Single, High-Speed, 25MHz Op Amp	8-Dip	4.63	3.08	2.55
LT1357CN8#PBF-ND	Single, High-Speed, 25MHz Op Amp* **NEW!**	8-Dip	4.63	3.08	2.55
LT1357CS8-ND	Single, High-Speed, 25MHz Op Amp	8-SOIC	5.13	3.42	2.80
LT1357CS8#PBF-ND	Single, High-Speed, 25MHz Op Amp* **NEW!**	8-SOIC	5.13	3.42	2.80
LT1358CN8-ND	Dual, High-Speed, 25MHz Op Amp	8-Dip	7.25	4.83	4.10
LT1358CN8#PBF-ND	Dual, High-Speed, 25MHz Op Amp* **NEW!**	8-Dip	7.25	4.83	4.10
LT1358CS8-ND	Dual, High-Speed, 25MHz Op Amp	8-SOIC	8.25	5.50	4.40
LT1358CS8#PBF-ND	Dual, High-Speed, 25MHz Op Amp* **NEW!**	8-SOIC	8.25	5.50	4.40
LT1359CN-ND	Quad, High-Speed, 25MHz Op Amp	14-Dip	12.00	8.00	6.80
LT1359CN#PBF-ND	Quad, High-Speed, 25MHz Op Amp* **NEW!**	14-Dip	12.00	8.00	6.80
LT1359CS-ND	Quad, High Speed, 25MHz Op Amp	16-SOIC	12.88	8.55	7.05
LT1359CS#PBF-ND	Quad, High Speed, 25MHz Op Amp* **NEW!**	16-SOIC	12.88	8.55	7.05
LT1360CN8-ND	Single, High-Speed, 50MHz Op Amp	8-Dip	4.13	2.75	2.25
LT1360CN8#PBF-ND	Single, High-Speed, 50MHz Op Amp* **NEW!**	8-Dip	4.13	2.75	2.25
LT1360CS8-ND	Single, High-Speed, 50MHz Op Amp	8-SOIC	4.63	3.08	2.50
LT1360CS8#PBF-ND	Single, High-Speed, 50MHz Op Amp* **NEW!**	8-SOIC	4.63	3.08	2.50
LT1361CN8-ND	Dual, High-Speed, 50MHz Op Amp	8-Dip	6.38	4.25	3.50
LT1361CN8#PBF-ND	Dual, High-Speed, 50MHz Op Amp* **NEW!**	8-Dip	6.38	4.25	3.50
LT1361CS8-ND	Dual, High-Speed, 50MHz Op Amp	8-SOIC	6.75	4.50	3.65
LT1361CS8#PBF-ND	Dual, High-Speed, 50MHz Op Amp* **NEW!**	8-SOIC	6.75	4.50	3.65
LT1362CN-ND	Quad, High-Speed, 50MHz Op Amp	14-Dip	11.25	7.50	6.15
LT1362CN#PBF-ND	Quad, High-Speed, 50MHz Op Amp* **NEW!**	14-Dip	11.25	7.50	6.15
LT1362CS-ND	Quad, High-Speed, 50MHz Op Amp	16-SOIC	11.75	7.83	6.45
LT1362CS#PBF-ND	Quad, High-Speed, 50MHz Op Amp* **NEW!**	16-SOIC	11.75	7.83	6.45
LT1363CN8-ND	Single, High-Speed, 70MHz Op Amp	8-Dip	4.50	3.00	2.45
LT1363CN8#PBF-ND	Single, High-Speed, 70MHz Op Amp* **NEW!**	8-Dip	4.50	3.00	2.45
LT1363CS8-ND	Single, High-Speed, 70MHz Op Amp	8-SOIC	5.00	3.33	2.70
LT1363CS8#PBF-ND	Single, High-Speed, 70MHz Op Amp* **NEW!**	8-SOIC	5.00	3.33	2.70
LT1364CN8-ND	Dual, High-Speed, 70MHz Op Amp	8-Dip	6.88	4.58	3.80
LT1364CN8#PBF-ND	Dual, High-Speed, 70MHz Op Amp* **NEW!**	8-Dip	6.88	4.58	3.80
LT1364CS8-ND	Dual, High-Speed, 70MHz Op Amp	8-SOIC	7.25	4.82	3.95
LT1364CS8#PBF-ND	Dual, High-Speed, 70MHz Op Amp* **NEW!**	8-SOIC	7.25	4.82	3.95
LT1365CN-ND	Quad, High-Speed, 70MHz Op Amp	14-Dip	12.13	8.08	6.65
LT1365CN#PBF-ND	Quad, High-Speed, 70MHz Op Amp* **NEW!**	14-Dip	12.13	8.08	6.65
LT1365CS-ND	Quad, High-Speed, 70MHz Op Amp	16-SOIC	12.63	8.42	6.95
LT1365CS#PBF-ND	Quad, High-Speed, 70MHz Op Amp* **NEW!**	16-SOIC	12.63	8.42	6.95

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1366CN8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	6.50	4.33	3.60
LT1366CN8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp* **NEW!**	8-Dip	6.50	4.33	3.60
LT1366CS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.75	4.50	3.75
LT1366CS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp* **NEW!**	8-SOIC	6.75	4.50	3.75
LT1367CS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	11.50	7.65	6.35
LT1367CS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp* **NEW!**	14-SOIC	11.50	7.65	6.35
LT1368CN8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	6.50	4.32	3.60
LT1368CN8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp* **NEW!**	8-Dip	6.50	4.32	3.60
LT1368CS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.75	4.50	3.75
LT1368CS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp* **NEW!**	8-SOIC	6.75	4.50	3.75
LT1369CS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	11.50	7.65	6.35
LT1369CS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp* **NEW!**	14-SOIC	11.50	7.65	6.35
LT1395CS5-ND	Single 400MHz Current Feedback Amp	SOT-23-5	2.88	1.91	1.47
LT1395CS5#PBF-ND	Single 400MHz Current Feedback Amp* **NEW!**	SOT-23-5	2.88	1.57	1.47
LT1395CS6-ND	Single 400MHz Current Feedback Amp	SOT-23-6	2.88	1.91	1.47
LT1395CS6#PBF-ND	Single 400MHz Current Feedback Amp* **NEW!**	SOT-23-6	2.88	1.57	1.47
LT1395CS8#PBF-ND	Single 400MHz Current Feedback Amp* **NEW!**	8-SOIC	2.75	1.50	1.40
LT1396CDD-ND	400MHz, Dual Current Feedback Amp	8-DFN	4.50	2.99	2.30
LT1398CS-ND	300MHz, Dual Current Feedback Amp	16-SOIC	4.63	3.08	2.32
LT1399CS-ND	300MHz, Triple Current Feedback Amp	16-SOIC	5.00	3.32	2.50
LT1399CS#PBF-ND	300MHz, Triple Current Feedback Amp* **NEW!**	16-SOIC	5.00	3.32	2.50
LT1399HVCS-ND	300MHz, Triple Current Feedback Amp	16-SOIC	6.25	4.15	3.25
LT1399HVCS#PBF-ND	300MHz, Triple Current Feedback Amp* **NEW!**	16-SOIC	6.25	4.15	3.25
LT1413CN8-ND	5V Single Supply, Dual Precision Op Amp	8-Dip	3.75	2.50	2.05
LT1413CN8#PBF-ND	5V Single Supply, Dual Precision Op Amp* **NEW!**	8-Dip	3.75	2.50	2.05
LT1413S8-ND	5V Single Supply, Dual Precision Op Amp	8-SOIC	4.00	2.67	2.30
LT1413S8#PBF-ND	5V Single Supply, Dual Precision Op Amp* **NEW!**	8-SOIC	4.00	2.67	2.30
LT1457CN8-ND	Dual Precision JFET Input Op Amp	8-Dip	4.50	3.00	2.40
LT1457S8-ND	Dual Precision JFET Input Op Amp	8-SOIC	4.75	3.17	2.55
LT1457S8#PBF-ND	Dual Precision JFET Input Op Amp* **NEW!**	8-SOIC	4.75	3.17	2.55
LT1462ACN8-ND	Dual Micropower JFET Input Op Amp	8-Dip	8.75	5.81	4.80
LT1462ACS8-ND	Dual Micropower JFET Input Op Amp	8-SOIC	9.00	5.98	4.95
LT1464ACS8-ND	Dual Micropower JFET Input Op Amp	8-SOIC	9.00	5.98	4.95
LT1464ACS8#PBF-ND	Dual Micropower JFET Input Op Amp* **NEW!**	8-SOIC	9.00	5.98	4.95
LT1464CS8-ND	Dual Micropower JFET Input Op Amp	8-SOIC	5.00	3.32	2.75
LT1464CS8#PBF-ND	Dual Micropower JFET Input Op Amp* **NEW!**	8-SOIC	5.00	3.32	2.75
LT1465CS-ND	Quad Micropower JFET Input Op Amp	14-SOIC	8.50	5.65	4.75
LT1465CS#PBF-ND	Quad Micropower JFET Input Op Amp* **NEW!**	14-SOIC	8.50	5.65	4.75
LT1466LCN8-ND	Dual Precision Rail-to-Rail In/Out Op Amp	8-Dip	8.13	5.40	4.35
LT1466LCS8-ND	Dual Precision Rail-to-Rail In/Out Op Amp	8-SOIC	8.25	5.50	4.40
LT1466LCS8#PBF-ND	Dual Precision Rail-to-Rail In/Out Op Amp* **NEW!**	8-SOIC	8.25	5.50	4.40
LT1468CN8-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp	8-Dip	6.25	4.15	3.13
LT1468CN8#PBF-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp* **NEW!**	8-Dip	6.25	4.15	3.13
LT1468CS8-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp	8-SOIC	6.25	4.15	3.13
LT1468CS8#PBF-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp* **NEW!**	8-SOIC	6.25	4.15	3.13
LT1468IS8-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp	8-SOIC	7.50	4.98	3.75
LT1468IS8#PBF-ND	90MHz, High-Speed, 16-Bit Accurate Op Amp* **NEW!**	8-SOIC	7.50	4.98	3.75
LT1490ACDD-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-DFN	4.75	3.39	2.79
LT1490ACDD#PBF-ND	Dual Micropower Rail-to-Rail In/Out Op Amp* **NEW!**	8-DFN	4.75	3.39	2.79
LT1490CMS8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-MSOP	4.50	3.00	2.40
LT1490CN8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-Dip	3.75	2.50	2.05
LT1490CS8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	3.88	2.60	2.15
LT1490IN8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-Dip	4.50	2.99	2.45
LT1490IS8-ND	Dual Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	4.63	3.08	2.60
LT1491AIS-ND	Quad Micropower Rail-to-Rail In/Out Op Amp	14-SOIC	7.75	5.15	3.95
LT1491AIS#PBF-ND	Quad Micropower Rail-to-Rail In/Out Op Amp* **NEW!**	14-SOIC	7.75	5.15	3.95
LT1491CN-ND	Quad Micropower Rail-to-Rail In/Out Op Amp	14-Dip	6.25	4.15	3.50
LT1491CS-ND	Quad Micropower Rail-to-Rail In/Out Op Amp	14-SOIC	6.38	4.25	3.60
LT1491IS-ND	Quad Micropower Rail-to-Rail In/Out Op Amp	14-SOIC	7.75	5.15	4.25
LT1492CN8-ND	Dual Low Power Single Supply Precision Op Amp	8-Dip	7.38	4.90	3.69
LT1492CN8#PBF-ND	Dual Low Power Single Supply Precision Op Amp* **NEW!**	8-Dip	7.38	4.90	3.69
LT1492CS8-ND	Dual Low Power Single Supply Precision Op Amp	8-SOIC	7.50	4.98	3.75
LT1492CS8#PBF-ND	Dual Low Power Single Supply Precision Op Amp* **NEW!**	8-SOIC	7.50	4.98	3.75
LT1493CS-ND	Quad Low Power Single Supply Precision Op Amp	16-SOIC	13.50	8.97	6.75
LT1493CS#PBF-ND	Quad Low Power Single Supply Precision Op Amp* **NEW!**	16-SOIC	13.50	8.97	6.75
LT1494CMS8-ND	Single Rail-to-Rail In/Out Op Amp	8-MSOP	3.63	2.41	1.90
LT1494CMS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp* **NEW!**	8-MSOP	3.63	2.41	1.90
LT1494CN8-ND	Single Rail-to-Rail In/Out Op Amp	8-Dip	3.38	2.25	1.80
LT1494CS8-ND	Single Rail-to-Rail In/Out Op Amp	8-SOIC	3.38	2.25	1.80
LT1494CS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp* **NEW!**	8-SOIC	3.38	2.25	1.80
LT1494HS8-ND	Single Rail-to-Rail In/Out Op Amp	8-SOIC	4.13	2.74	2.20
LT1494IMS8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-MSOP	4.13	2.74	2.20
LT1494IMS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.* **NEW!**	8-MSOP	4.13	2.74	2.20
LT1494IN8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	3.88	2.58	2.10
LT1494IN8#PBF-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.* **NEW!**	8-Dip	3.88	2.58	2.10
LT1494IS8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-SOIC	3.88	2.58	2.10
LT1494IS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.* **NEW!**	8-SOIC	3.88	2.58	2.10
LT1495CN8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	5.13	3.41	3.00
LT1495CS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	5.38	3.57	3.10
LT1495CS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp* **NEW!**	8-SOIC	5.38	3.57	3.10
LT1495HS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.75	4.49	3.75
LT1495IN8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-Dip	6.00	3.99	3.45
LT1495IS8-ND	Dual Rail-to-Rail In/Out Precision Op Amp	8-SOIC	6.25	4.15	3.55
LT1495IS8#PBF-ND	Dual Rail-to-Rail In/Out Precision Op Amp* **NEW!**	8-SOIC	6.25	4.15	3.55
LT1496CN-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-Dip	6.75	4.49	3.95
LT1496CS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	7.00	4.65	4.10
LT1496CS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp* **NEW!**	14-SOIC	7.00	4.65	4.10
LT1496HS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	8.75	5.81	4.90
LT1496HS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp* **NEW!**	14-SOIC	8.75	5.81	4.90
LT1496IN-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-Dip	8.00	5.32	4.60
LT1496IN#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp* **NEW!**	14-Dip	8.00	5.32	4.60
LT1496IS-ND	Quad Rail-to-Rail In/Out Precision Op Amp	14-SOIC	8.25	5.48	4.70
LT1496IS#PBF-ND	Quad Rail-to-Rail In/Out Precision Op Amp* **NEW!**	14-SOIC	8.25	5.48	4.70
LT1497CS-ND	Dual Current Feedback Amp	16-SOIC	7.88	5.23	4.20
LT1497CS8-ND	Dual Current Feedback Amp	8-SOIC	6.25	4.15	3.45
LT1497CS8#PBF-ND	Dual Current Feedback Amp* **NEW!**	8-SOIC	6.25	4.15	3.45
LT1498CN8-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-Dip	6.50	4.32	3.25
LT1498CN8#PBF-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp* **NEW!**	8-Dip	6.50	4.32	3.25
LT1498CS8-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-SOIC	6.75	4.49	3.38
LT1498CS8#PBF-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp* **NEW!**	8-SOIC	6.75	4.49	3.38

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1498IN8-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-Dip	6.75	4.49	3.45
LT1498IS8-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp	8-SOIC	7.00	4.65	3.65
LT1498IS8#PBF-ND	10MHz, Dual Rail-to-Rail In/Out Op Amp* ***NEW!***	8-SOIC	7.00	4.65	3.65
LT1499CS-ND	10MHz, Quad Rail-to-Rail In/Out Op Amp	14-SOIC	12.25	8.14	6.13
LT1499CS#PBF-ND	10MHz, Quad Rail-to-Rail In/Out Op Amp* ***NEW!***	14-SOIC	12.25	8.14	6.13
LT1499IS-ND	10MHz, Quad Rail-to-Rail In/Out Op Amp	14-SOIC	12.88	8.55	6.50
LT1567CMS8-ND	Op Amp and Inverter/Filter Building Block	8-MSOP	3.75	2.49	2.00
LT1620CGN-ND	Rail-to-Rail Current Sense Amp	16-SSOP	4.00	2.66	2.30
LT1620CS8-ND	Rail-to-Rail Current Sense Amp	8-SOIC	3.38	2.25	1.95
LT1620CS8#PBF-ND	Rail-to-Rail Current Sense Amp* ***NEW!***	8-SOIC	3.38	2.25	1.95
LT1620IS8-ND	Rail-to-Rail Current Sense Amp, Ind. Temp.	8-SOIC	3.88	2.58	2.05
LT1620IS8#PBF-ND	Rail-to-Rail Current Sense Amp, Ind. Temp* ***NEW!***	8-SOIC	3.88	2.79	2.48
LT1621CGN-ND	Dual Rail-to-Rail Current Sense Amp	16-SSOP	6.13	4.10	3.50
LT1621IGN-ND	Dual Rail-to-Rail Current Sense Amp, Ind. Temp.	16-SSOP	7.00	4.65	3.95
LT1630CN8-ND	30MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-Dip	6.50	4.32	3.25
LT1630CN8#PBF-ND	30MHz, Dual Rail-to-Rail I/O Precision Op Amp* ***NEW!***	8-Dip	6.50	4.32	3.25
LT1630CS8-ND	30MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-SOIC	6.75	4.49	3.38
LT1630CS8#PBF-ND	30MHz, Dual Rail-to-Rail I/O Precision Op Amp* ***NEW!***	8-SOIC	6.75	4.49	3.38
LT1631CS-ND	30MHz, Quad Rail-to-Rail I/O Precision Op Amp	14-SOIC	12.25	8.14	6.13
LT1631CS#PBF-ND	30MHz, Quad Rail-to-Rail I/O Precision Op Amp* ***NEW!***	14-SOIC	12.25	8.14	6.13
LT1632CN8-ND	45MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-Dip	6.63	4.40	3.32
LT1632CN8#PBF-ND	45MHz, Dual Rail-to-Rail I/O Precision Op Amp* ***NEW!***	8-Dip	6.63	4.40	3.32
LT1632CS8-ND	45MHz, Dual Rail-to-Rail I/O Precision Op Amp	8-SOIC	6.88	4.57	3.44
LT1632CS8#PBF-ND	45MHz, Dual Rail-to-Rail I/O Precision Op Amp* ***NEW!***	8-SOIC	6.88	4.57	3.44
LT1633CS-ND	45MHz, Quad Rail-to-Rail I/O Precision Op Amp	14-SOIC	12.38	8.22	6.19
LT1633CS#PBF-ND	45MHz, Quad Rail-to-Rail I/O Precision Op Amp* ***NEW!***	14-SOIC	12.38	8.22	6.19
LT1635CN8-ND	Micropower Rail-to-Rail Op Amp and Reference	8-Dip	3.50	2.33	1.85
LT1635CN8#PBF-ND	Micropower Rail-to-Rail Op Amp and Reference* ***NEW!***	8-Dip	3.50	2.33	1.85
LT1635CS8-ND	Micropower Rail-to-Rail Op Amp and Reference	8-SOIC	3.88	2.58	2.05
LT1635CS8#PBF-ND	Micropower Rail-to-Rail Op Amp and Reference* ***NEW!***	8-SOIC	3.88	2.58	2.05
LT1636CDD-ND	220kHz, Single Micropower Rail-to-Rail In/Out Op Amp	8-DFN	3.75	2.68	2.21
LT1636CMS8-ND	220kHz, Single Micropower Rail-to-Rail In/Out Op Amp	8-MSOP	3.50	2.33	1.90
LT1636CMS8#PBF-ND	220kHz, Single Micropower R/R In/Out Op Amp* ***NEW!***	8-MSOP	3.50	2.33	1.90
LT1636CN8-ND	220kHz, Single Micropower Rail-to-Rail In/Out Op Amp	8-Dip	2.88	1.91	1.50
LT1636CN8#PBF-ND	220kHz, Single Micropower R/R In/Out Op Amp* ***NEW!***	8-Dip	2.88	1.91	1.50
LT1636CS8-ND	220kHz, Single Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	3.00	2.00	1.55
LT1636CS8#PBF-ND	220kHz, Single Micropower R/R In/Out Op Amp* ***NEW!***	8-SOIC	3.00	2.00	1.55
LT1636HS8-ND	220kHz, Single Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	3.75	2.49	1.90
LT1636IS8-ND	220kHz, Single Micropower R/R I/O Op Amp, Ind. Temp.	8-SOIC	3.50	2.33	1.80
LT1636IS8#PBF-ND	220kHz, Single Micropower R/R I/O Op Amp, Ind. Temp.* ***NEW!***	8-SOIC	3.50	2.33	1.80
LT1637CDD-ND	1.1MHz, Single Micropower Rail-to-Rail In/Out Op Amp	8-DFN	3.63	2.59	2.13
LT1637CN8-ND	1.1MHz, Single Micropower Rail-to-Rail In/Out Op Amp	8-Dip	2.88	1.91	1.50
LT1637CS8-ND	1.1MHz, Single Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	3.00	2.00	1.55
LT1637CS8#PBF-ND	1.1MHz, Single Micropower R/R In/Out Op Amp* ***NEW!***	8-SOIC	3.00	2.00	1.55
LT1637HS8-ND	1.1MHz, Single Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	3.50	2.33	1.85
LT1637HS8#PBF-ND	1.1MHz, Single Micropower R/R In/Out Op Amp* ***NEW!***	8-SOIC	3.50	2.33	1.85
LT1638CDD-ND	1.2MHz, Dual Micropower Rail-to-Rail In/Out Op Amp	8-DFN	4.75	3.39	2.79
LT1638CMS8-ND	1.2MHz, Dual Micropower Rail-to-Rail In/Out Op Amp	8-MSOP	4.50	3.00	2.40
LT1638CMS8#PBF-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp* ***NEW!***	8-MSOP	4.50	3.00	2.40
LT1638CN8-ND	1.2MHz, Dual Micropower Rail-to-Rail In/Out Op Amp	8-Dip	3.75	2.50	2.05
LT1638CS8-ND	1.2MHz, Dual Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	3.88	2.60	2.15
LT1638CS8#PBF-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp* ***NEW!***	8-SOIC	3.88	2.60	2.15
LT1638HS8-ND	1.2MHz, Dual Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	4.88	3.24	2.70
LT1638HS8#PBF-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp* ***NEW!***	8-SOIC	4.88	3.24	2.70
LT1638IS8-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp, Ind. Temp.	8-SOIC	4.63	3.08	2.60
LT1638IS8#PBF-ND	1.2MHz, Dual Micropower R/R In/Out Op Amp, Ind. Temp.* ***NEW!***	8-SOIC	4.63	3.08	2.60
LT1639HS-ND	1.2MHz, Quad Micropower Rail-to-Rail In/Out Op Amp	8-SOIC	8.00	5.32	4.35
LT1639HS#PBF-ND	1.2MHz, Quad Micropower R/R In/Out Op Amp* ***NEW!***	8-SOIC	8.00	5.32	4.35
LT1639IS-ND	1.2MHz, Quad Micropower R/R In/Out Op Amp, Ind. Temp.	8-SOIC	7.75	5.15	4.25
LT1639IS#PBF-ND	1.2MHz, Quad Micropower R/R In/Out Op Amp, Ind. Temp.* ***NEW!***	8-SOIC	7.75	5.15	4.25
LT1672CMS8-ND	Single Rail-to-Rail In/Out Op Amp	8-MSOP	3.63	2.41	1.90
LT1672CN8-ND	Single Rail-to-Rail In/Out Op Amp	8-Dip	3.38	2.25	1.80
LT1672CS8-ND	Single Rail-to-Rail In/Out Op Amp	8-SOIC	3.38	2.25	1.80
LT1672CS8#PBF-ND	Single Rail-to-Rail In/Out Op Amp* ***NEW!***	8-SOIC	3.38	2.25	1.80
LT1672IMS8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-MSOP	4.13	2.74	2.20
LT1672IN8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	3.88	2.58	2.10
LT1672IS8-ND	Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-SOIC	3.88	2.58	2.10
LT1673CN8-ND	Dual Rail-to-Rail In/Out Op Amp	8-Dip	5.13	3.41	3.00
LT1673CS8-ND	Dual Rail-to-Rail In/Out Op Amp	8-SOIC	5.38	3.57	3.10
LT1673CS8#PBF-ND	Dual Rail-to-Rail In/Out Op Amp* ***NEW!***	8-SOIC	5.38	3.57	3.10
LT1673IN8-ND	Dual Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-Dip	6.00	3.99	3.45
LT1673IS8-ND	Dual Rail-to-Rail In/Out Op Amp, Ind. Temp.	8-SOIC	6.25	4.15	3.55
LT1674CN-ND	Quad Rail-to-Rail In/Out Op Amp	14-SOIC	6.75	4.49	3.95
LT1674CS-ND	Quad Rail-to-Rail In/Out Op Amp	14-SOIC	7.00	4.65	4.10
LT1674IN-ND	Quad Rail-to-Rail In/Out Op Amp, Ind. Temp.	14-Dip	8.00	5.32	4.60
LT1674IS-ND	Quad Rail-to-Rail In/Out Op Amp, Ind. Temp.	14-SOIC	8.25	5.48	4.70
LT1677CS8-ND	Single, Low Noise Rail-to-Rail Precision Op Amp	8-SOIC	4.50	2.99	2.30
LT1677CS8#PBF-ND	Single, Low Noise Rail-to-Rail Precision Op Amp* ***NEW!***	8-SOIC	4.50	2.99	2.30
LT1722CS5-ND	Single 200MHz Low Noise Precision Op Amp	SOT-23-5	1.85	1.33	1.09
LT1722CS5#PBF-ND	Single 200MHz Low Noise Precision Op Amp* ***NEW!***	SOT-23-5	1.85	1.23	.93
LT1722CS8-ND	Single 200MHz Low Noise Precision Op Amp	8-SOIC	1.80	1.28	1.06
LT1723CS8-ND	Dual 200MHz Low Noise Precision Op Amp	8-SOIC	2.38	1.70	1.40
LT1724CS-ND	Quad 200MHz Low Noise Precision Op Amp	14-SOIC	4.38	3.13	2.57
LT1739CFE-ND	Dual 500mA, 200MHz xDSL Line Driver Amp	20-TSSOP	7.38	4.90	4.25
LT1739CUE-ND	Dual 500mA, 200MHz xDSL Line Driver Amp	12-DFN	7.38	5.00	4.35
LT1739IUE-ND	Dual 500mA, 200MHz xDSL Line Driver Amp	12-DFN	9.00	6.05	5.25
LT1782HS5-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-5	3.25	2.16	1.72
LT1782HS5#PBF-ND	Micropower Rail-to-Rail In/Out Op Amp* ***NEW!***	SOT-23-5	3.25	2.16	1.72
LT1782HS6-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-6	3.63	2.41	1.87
LT1782IS5-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-5	2.95	1.96	1.48
LT1782IS5#PBF-ND	Micropower Rail-to-Rail In/Out Op Amp* ***NEW!***	SOT-23-5	2.95	1.96	1.48
LT1782IS6-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-6	3.35	2.23	1.68
LT1782IS6#PBF-ND	Micropower Rail-to-Rail In/Out Op Amp* ***NEW!***	SOT-23-6	3.35	2.23	1.68
LT1783HS5-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-5	3.25	2.16	1.72
LT1783HS5#PBF-ND	Micropower Rail-to-Rail In/Out Op Amp* ***NEW!***	SOT-23-5	3.25	2.16	1.72
LT1783HS6-ND	Micropower Rail-to-Rail In/Out Op Amp	SOT-23-6	3.63	2.41	1.87
LT1783IS5-ND	1.25MHz Micropower Rail-to-Rail Op Amp	SOT-23-5	2.95	1.96	1.52
LT1783IS5#PBF-ND	1.25MHz Micropower Rail-to-Rail Op Amp* ***NEW!***	SOT-23-5	2.95	1.96	1.52
LT1783IS6-ND	1.25MHz Micropower Rail-to-Rail Op Amp	SOT-23-6	3.35	2.23	1.68
LT1783IS6#PBF-ND	1.25MHz Micropower Rail-to-Rail Op Amp* ***NEW!***	SOT-23-6	3.35	2.23	1.68
LT1784CS5-ND	2.5MHz Micropower Rail-to-Rail Op Amp	SOT-23-5	2.20	1.47	1.17
LT1784CS5#PBF-ND	2.5MHz Micropower Rail-to-Rail Op Amp* ***NEW!***	SOT-23-5	2.20	1.47	1.17
LT1784CS6-ND	2.5MHz Micropower Rail-to-Rail Op Amp	SOT-23-6	2.38	1.58	1.27
LT1784CS6#PBF-ND	2.5MHz Micropower Rail-to-Rail Op Amp* ***NEW!***	SOT-23-6	2.38	1.58	1.27
LT1787HS8-ND	Precision Current Sense Op Amp	8-SOIC	5.63	3.74	2.90
LT1787HS8#PBF-ND	Precision Current Sense Op Amp* ***NEW!***	8-SOIC	5.63	3.74	2.90
LT1787HVCS8-ND	Precision Current Sense Op Amp	8-SOIC	6.13	4.07	3.07
LT1787HVCS8#PBF-ND	Precision Current Sense Op Amp* ***NEW!***	8-SOIC	6.13	4.07	3.07
LT1787HVHS8-ND	Precision Current Sense Op Amp	8-SOIC	7.50	4.98	3.80
LT1792CN8-ND	Low Noise, JFET Input Precision Op Amp	8-Dip	4.75	3.16	2.45
LT1792CS8-ND	Low Noise, JFET Input Precision Op Amp	8-SOIC	4.75	3.16	2.45
LT1792CS8#PBF-ND	Low Noise, JFET Input Precision Op Amp* ***NEW!***	8-SOIC	4.75	3.16	2.45
LT1793CN8-ND	Low Noise, JFET Input Precision Op Amp	8-Dip	4.75	3.16	2.45
LT1793CN8#PBF-ND	Low Noise, JFET Input Precision Op Amp* ***NEW!***	8-Dip	4.75	3.16	2.45
LT1793CS8-ND	Low Noise, JFET Input Precision Op Amp	8-SOIC	4.75	3.16	2.45
LT1793CS8#PBF-ND	Low Noise, JFET Input Precision Op Amp* ***NEW!***	8-SOIC	4.75	3.16	2.45
LT1794CSW-ND	500mA, 200MHz Dual Op Amp	20-SOIC	10.25	6.81	5.45
LT1794ISW-ND	500mA, 200MHz Dual Op Amp, Ind. Temp.	20-SOIC	12.13	8.06	6.50
LT1795CSW-ND	Dual 500mA, 50MHz, Current Feedback Amp	20-SOIC	10.25	6.81	5.30
LT1795CSW#PBF-ND	Dual 500mA, 50MHz, Current Feedback Amp* ***NEW!***	20-SOIC	10.25	6.81	5.30
LT1800CS5-ND	80MHz Low Power, Rail-to-Rail I/O Precision Op Amp	SOT-23-5	2.88	1.91	1.52
LT1800CS5#PBF-ND	80MHz Low Power, R/R I/O Precision Op Amp* ***NEW!***	SOT-23-5	2.88	1.91	1.52
LT1800CS8-ND	80MHz Low Power, Rail-to-Rail I/O Precision Op Amp	8-SOIC	2.75	1.83	1.45
LT1800CS8#PBF-ND	80MHz Low Power, R/R I/O Precision Op Amp* ***NEW!***	8-SOIC	2.75	1.83	1.45
LT1801CDD-ND	Dual 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	8-DFN	4.38	2.91	2.35
LT1801CMS8-ND	Dual 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	8-MSOP	4.13	2.74	2.25
LT1801CMS8#PBF-ND	Dual 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp* ***NEW!***	8-MSOP	4.13	2.74	2.25
LT1801CS8-ND	Dual 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	8-SOIC	3.88	2.58	2.15
LT1801CS8#PBF-ND	Dual 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp* ***NEW!***	8-SOIC	3.88	2.58	2.15
LT1801IMS8-ND	Quad 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	8-MSOP	4.88	3.24	2.70
LT1801IMS8#PBF-ND	Quad 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp* ***NEW!***	8-MSOP	4.88	3.24	2.70
LT1802CS-ND	Quad 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	14-SOIC	7.00	4.65	3.85
LT1802CS#PBF-ND	Quad 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp* ***NEW!***	14-SOIC	7.00	4.65	3.85
LT1802IS-ND	Quad 80MHz, 25V/µs, LP, R/R, In/Out Precision Op Amp	14-SOIC	8.38	5.57	4.60
LT1803CS5-ND	Single 85MHz, 100V/µs, Rail-to-Rail In/Out Op Amp	SOT-23-5	2.75	1.83	1.52
LT1803CS5#PBF-ND	Single 85MHz, 100V/µs, Rail-to-Rail In/Out Op Amp* ***NEW!***	SOT-23-5	2.75	1.83	1.52
LT1803CS8-ND	Single 85MHz, 100V/µs, Rail-to-Rail In/Out Op Amp	8-SOIC	2.63	1.75	1.45
LT1804CDD-ND	Dual 85MHz, 100V/µs, Rail-to-Rail In/Out Op Amp	8-DFN	4.38	2.91	2.35
LT1804CS8-ND	Dual 85MHz, 100V/µs, Rail-to-Rail In/Out Op Amp	8-SOIC	3.88	2.58	2.15
LT1804CS8#PBF-ND	Dual 85MHz, 100V/µs, Rail-to-Rail In/Out Op Amp* ***NEW!***	8-SOIC	3.88	2.58	2.15
LT1805CS-ND	Quad 85MHz, 100V/µs, Rail-to-Rail In/Out Op Amp	14-SOIC	7.00	4.65	3.85
LT1806CS6-ND	325MHz Single Rail-to-Rail In/Out Op Amp	SOT-23-6	4.50	2.99	2.27
LT1806CS6#PBF-ND	325MHz Single Rail-to-Rail In/Out Op Amp* ***NEW!***	SOT-23-6	4.50	2.99	2.27
LT1806CS8-ND	325MHz Single Rail-to-Rail In/Out Op Amp	8-SOIC	4.38	2.91	2.20
LT1806CS8#PBF-ND	325MHz Single Rail-to-Rail In/Out Op Amp* ***NEW!***	8-SOIC	4.38	2.91	2.20
LT1806CS8TR-ND	325MHz Single Rail-to-Rail In/Out Op Amp	8-SOIC	5625.00/2,500		
LT1806IS6-ND	325MHz Single Rail-to-Rail In/Out Op Amp	SOT-23-6	4.88	3.24	2.47
LT1806IS6#PBF-ND	325MHz Single Rail-to-Rail In/Out Op Amp* ***NEW!***	SOT-23-6	4.88	3.24	2.47
LT1806IS8-ND	325MHz Single Rail-to-Rail In/Out Op Amp, Ind. Temp	8-SOIC	4.75	3.16	2.40
LT1806IS8#PBF-ND	325MHz Single R/R In/Out Op Amp, Ind. Temp* ***NEW!***	8-SOIC	4.75	3.16	2.40
LT1806IS8TR-ND	325MHz Single Rail-to-Rail In/Out Op Amp, Ind. Temp	8-SOIC	6125.00/2,500		
LT1807CS8-ND	325MHz Dual Rail-to-Rail In/Out Op Amp	8-SOIC	6.88	4.57	3.60
LT1807CS8#PBF-ND	325MHz Dual Rail-to-Rail In/Out Op Amp* ***NEW!***	8-SOIC	6.88	4.57	3.60
LT1809CS6-ND	180MHz Single Rail-to-Rail In/Out Op Amp	SOT-23-6	3.88	2.58	1.97
LT1809CS6#PBF-ND	180MHz Single Rail-to-Rail In/Out Op Amp* ***NEW!***	SOT-23-6	3.88	2.58	1.97
LT1809IS6-ND	180MHz Single Rail-to-Rail In/Out Op Amp, Ind. Temp.	SOT-23-6	4.25	2.83	2.17
LT1809IS6#PBF-ND	180MHz Single R/R In/Out Op Amp, Ind. Temp.* ***NEW!***	SOT-23-6	4.25	2.83	2.17
LT1812CS5-ND	100MHz, Low Power Op Amp with Shutdown	SOT-23-5	1.88	1.34	1.11
LT1812CS6-ND	100MHz, Low Power Op Amp with Shutdown	SOT-23-6	1.98	1.41	1.16
LT1813CDD-ND	Dual, High-Speed, Low Power Op Amp	8-SOIC	2.30	1.64	1.35
LT1813CS8-ND	Dual, High-Speed, Low Power Op Amp	8-SOIC	2.30	1.64	1.35
LT1813CS8#PBF-ND	Dual, High-Speed, Low Power Op Amp* ***NEW!***	8-SOIC	2.30	1.53	1.15
LT1813DMS8-ND	Dual, High-Speed, Low Power Op Amp	8-MSOP	1.98	1.41	1.16
LT1813HVCS8-ND	Dual, High-Speed, Low Power Op Amp	8-SOIC	2.75	1.96	1.61
LT1813HVIS8-ND	Dual, High-Speed, Low Power Op Amp	8-SOIC	5.50	3.66	2.80
LT1814CGN-ND	Quad, High-Speed, Low Power Op Amp	16-SSOP	3.90	2.78	2.29
LT1814CS-ND	Quad, High-Speed, Low Power Op Amp	14-SOIC	3.90	2.78	2.29
LT1814CS#PBF-ND	Quad, High-Speed, Low Power Op Amp* ***NEW!***	14-SOIC	3.90	2.59	1.95
LT1815CS5-ND	Single, High-Speed Op Amp	SOT-23-5	1.88	1.34	1.10
LT1815CS6-ND	Single, High-Speed Op Amp	SOT-23-6	2.23	1.59	1.31
LT1815CS8-ND	Single, High-Speed Op Amp	8-SOIC	1.75	1.25	1.02
LT1815IS5-ND	Single, High-Speed Op Amp, Ind. Temp.	SOT-23-5	2.23	1.59	1.31
LT1815IS6-ND	Single, High-Speed Op Amp, Ind. Temp.	SOT-23-6	2.65	1.89	1.56
LT1815IS8-ND	Single, High-Speed Op Amp, Ind. Temp.	8-SOIC	2.10	1.50	1.23
LT1816ACMS-ND	Dual, High-Speed Op Amp	10-MSOP	6.50	4.32	3.70
LT1816CDD-ND	Dual, High-Speed Op Amp	8-DFN	6.45	4.29	3.71
LT1816CMS8-ND	Dual, High-Speed Op Amp	8-MSOP	3.00	2.14	1.76
LT1816CS8-ND	Dual, High-Speed Op Amp	8-SOIC	3.00	2.14	1.76
LT1816IMS8-ND	Dual, High-Speed Op Amp	8-MSOP	3.60	2.57	2.11
LT1816IS8-ND	Dual, High-Speed Op Amp	8-SOIC	3.60	2.57	2.11
LT1817CGN-ND	Quad, High-Speed Op Amp	16-SSOP	4.10	2.92	2.41
LT1817CS-ND	Quad, High-Speed Op Amp	14-SOIC	4.10	2.92	2.41
LT1819CMS8-ND	400MHz, 9mA, Dual Op Amp	8-MSOP	3.20	2.28	1.88
LT1819CS8-ND	400MHz, 9mA, Dual Op Amp	8-SOIC	3.20	2.28	1.88
LT1819CS8#PBF-ND	400MHz, 9mA, Dual Op Amp* ***NEW!***	8-SOIC	3.20	2.13	1.60
LT1819IS8-ND	400MHz, 9mA, Dual Op Amp	8-SOIC	3.83	2.73	2.25
LT1880CS5-ND	Picoamp-In Rail-to-Rail Op Amp	SOT-23-5	3.75	2.49	2.18
LT1880CS5#PBF-ND	Picoamp-In Rail-to-Rail Op Amp* ***NEW!***	SOT-23-5	3.75	2.49	2.18
LT1880IS5-ND	Picoamp-In Rail-to-Rail Op Amp, Ind. Temp.	SOT-23-5	4.50	2.99	2.52
LT1880IS5#PBF-ND	Picoamp-In Rail-to-Rail Op Amp, Ind. Temp.* ***NEW!***	SOT-23-5	4.50	2.99	2.52
LT1969CMS-ND	Dual, 700MHz, 200mA, Adj. Current Op Amp	10-MSOP	6.13	4.07	3.25
LT1970CFE-ND	500mA Op Amp with Adj. Prec. Current Limit	20-TSSOP	9.88	6.56	5.65
LT1970CFE#PBF-ND	500mA Op Amp with Adj. Prec. Current Limit* ***NEW!***	20-TSSOP	9.88	6.56	5.65
LT1970IFE#PBF-ND	500mA Op Amp with Adj. Prec. Current Limit*	20-TSSOP	11.38	7.15	6.50

* ***RoHS Compliant***

(Continued)

AMPLIFIERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1970IFE-ND	500mA Op Amp with Adj. Prec. Current Limit	20-TSSOP	11.38	7.56	6.50
LT2078AIS8-ND	Dual Micropower Op Amp, Ind. Temp.	8-SOIC	11.63	7.72	6.40
LT2078AIS8#PBF-ND	Dual Micropower Op Amp, Ind. Temp.* ***NEW!***	8-SOIC	11.63	7.72	6.40
LT2078CS8-ND	Dual Micropower Op Amp	8-SOIC	6.50	4.35	3.65
LT2078CS8#PBF-ND	Dual Micropower Op Amp* ***NEW!***	8-SOIC	6.50	4.35	3.65
LT2078IS8-ND	Dual Micropower Op Amp, Ind. Temp.	8-SOIC	8.38	5.60	4.85
LT2078IS8#PBF-ND	Dual Micropower Op Amp, Ind. Temp.* ***NEW!***	8-SOIC	8.38	5.60	4.85
LT2079AIS-ND	Quad Micropower Op Amp, Ind. Temp.	14-SOIC	19.75	13.12	10.95
LT2079AIS#PBF-ND	Quad Micropower Op Amp, Ind. Temp.* ***NEW!***	14-SOIC	19.75	13.12	10.95
LT2079CS-ND	Quad Micropower Op Amp	14-SOIC	11.13	7.39	6.15
LT2079CS#PBF-ND	Quad Micropower Op Amp* ***NEW!***	14-SOIC	11.13	7.39	6.15
LT2079IS-ND	Quad Micropower Op Amp, Ind. Temp.	14-SOIC	14.25	9.47	7.90
LT2079IS#PBF-ND	Quad Micropower Op Amp, Ind. Temp.* ***NEW!***	14-SOIC	14.25	9.47	7.90
LT2178AIS8-ND	Dual Micropower Op Amp, Ind. Temp.	8-SOIC	9.75	6.48	5.10
LT2178CS8-ND	Dual Micropower Op Amp	8-SOIC	7.00	4.65	3.85
LT2178CS8#PBF-ND	Dual Micropower Op Amp* ***NEW!***	8-SOIC	7.00	4.65	3.85
LT2178IS8-ND	Dual Micropower Op Amp, Ind. Temp.	8-SOIC	7.75	5.15	4.05
LT2178IS8#PBF-ND	Dual Micropower Op Amp, Ind. Temp.* ***NEW!***	8-SOIC	7.75	5.15	4.05
LT2179ACS-ND	Quad Micropower Op Amp	14-SOIC	18.00	11.96	9.95
LT6011ACS8-ND	Dual Rail-to-Rail Output Precision Op Amp	8-SOIC	4.38	3.13	2.57
LT6011CS8-ND	Dual Rail-to-Rail Output Precision Op Amp	8-SOIC	3.30	2.36	1.94
LT6011CS8#PBF-ND	Dual Rail-to-Rail Output Precision Op Amp* ***NEW!***	8-SOIC	3.30	2.36	1.94
LT6012ACGN-ND	Quad Rail-to-Rail Output Precision Op Amp	16-SSOP	6.88	4.91	4.04
LT6012ACS-ND	Quad Rail-to-Rail Output Precision Op Amp	14-SOIC	6.63	4.73	3.90
LT6012ACS#PBF-ND	Quad Rail-to-Rail Output Precision Op Amp* ***NEW!***	14-SOIC	6.63	4.73	3.90
LT6012CS-ND	Quad Rail-to-Rail Output Precision Op Amp	14-SOIC	5.88	4.20	3.46
LT6012CS#PBF-ND	Quad Rail-to-Rail Output Precision Op Amp* ***NEW!***	14-SOIC	5.88	4.20	3.46
LT6200CS6-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp	SOT-23-6	4.50	2.99	2.47
LT6200CS6#PBF-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp* ***NEW!***	SOT-23-6	4.50	2.99	2.47
LT6200CS6-5-ND	800MHz, Rail-to-Rail, In/Out Low Noise Op Amp	SOT-23-6	3.20	2.13	1.72
LT6200CS6-5#PBF-ND	800MHz, Rail-to-Rail, In/Out Low Noise Op Amp* ***NEW!***	SOT-23-6	3.20	2.13	1.72
LT6200CS6-10-ND	1.6GHz, Rail-to-Rail, In/Out Low Noise Op Amp	SOT-23-6	3.20	2.13	1.72
LT6200CS8-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp	8-SOIC	4.38	2.91	2.40
LT6200CS8#PBF-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp* ***NEW!***	8-SOIC	4.38	2.91	2.40
LT6200CS8-5-ND	800MHz, Rail-to-Rail, In/Out Low Noise Op Amp	8-SOIC	3.08	2.05	1.65
LT6200CS8-10-ND	1.6GHz, Rail-to-Rail, In/Out Low Noise Op Amp	8-SOIC	3.08	2.05	1.65
LT6200CS8-10#PBF-ND	1.6GHz, Rail-to-Rail, In/Out Low Noise Op Amp* ***NEW!***	8-SOIC	3.08	2.05	1.65
LT6200IS6-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp	SOT-23-6	5.38	3.57	2.97
LT6200IS6#PBF-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp* ***NEW!***	SOT-23-6	5.38	3.57	2.97
LT6200IS8-ND	165MHz, Rail-to-Rail, In/Out Low Noise Op Amp	8-SOIC	5.25	3.49	2.90
LT6201CDD-ND	Dual, Rail-to-Rail, In/Out Low Noise Op Amp	8-DFN	7.63	5.07	4.10
LT6201CS8-ND	Dual, Rail-to-Rail, In/Out Low Noise Op Amp	8-SOIC	7.38	4.90	4.00
LT6201CS8#PBF-ND	Dual, Rail-to-Rail, In/Out Low Noise Op Amp* ***NEW!***	8-SOIC	7.38	4.90	4.00
LT6203CDD-ND	Dual, Rail-to-Rail, In/Out Ultralow Noise, LP Op Amp	8-DFN	5.50	3.76	3.17
LT6203CDD#PBF-ND	Dual, R/R, In/Out Ultralow Noise, LP Op Amp* ***NEW!***	8-DFN	5.50	3.76	3.17
LT6203CMS8-ND	Dual Rail-to-Rail, In/Out, Ultralow Noise, LP Op Amp	8-MSOP	5.13	3.50	2.95
LT6203CMS8#PBF-ND	Dual R/R, In/Out, Ultralow Noise, LP Op Amp* ***NEW!***	8-MSOP	5.13	3.50	2.95
LT6203CS8-ND	Dual Rail-to-Rail, In/Out, Ultralow Noise, LP Op Amp	8-SOIC	4.88	3.40	2.85
LT6203CS8#PBF-ND	Dual R/R, In/Out, Ultralow Noise, LP Op Amp* ***NEW!***	8-SOIC	4.88	3.40	2.85
LT6204CS-ND	Quad Rail-to-Rail, In/Out, Ultralow Noise, LP Op Amp	14-SOIC	9.00	6.35	5.90
LT6204CS#PBF-ND	Quad R/R, In/Out, Ultralow Noise, LP Op Amp* ***NEW!***	14-SOIC	9.00	6.35	5.90
LT6206CMS8-ND	Dual Single Supply 3V, 100MHz Video Op Amp	8-MSOP	2.10	1.50	1.25
LT6206CMS8#PBF-ND	Dual Single Supply 3V, 100MHz Video Op Amp* ***NEW!***	8-MSOP	2.10	1.50	1.25
LT6207CGN-ND	Quad Single Supply 3V, 100MHz Video Op Amp	16-SSOP	3.13	2.08	1.65
LT6207CGN#PBF-ND	Quad Single Supply 3V, 100MHz Video Op Amp* ***NEW!***	16-SSOP	3.13	2.08	1.65
LT6210CS6-ND	Prog. Supply Current, R/R Out, Current Feedback Amp	SOT-23-6	2.50	1.79	1.48
LT6220CS5-ND	Single 60MHz, 20V/µs LP R/R In/Out Precision Op Amp	SOT-23-5	2.50	1.85	1.53
LT6220CS5#PBF-ND	Single 60MHz, 20V/µs LP R/R In/Out Precision Op Amp* ***NEW!***	SOT-23-5	2.50	1.85	1.53
LT6220CS8-ND	Single 60MHz, 20V/µs LP R/R In/Out Precision Op Amp	8-SOIC	2.38	1.75	1.45
LT6220CS8#PBF-ND	Single 60MHz, 20V/µs LP R/R In/Out Precision Op Amp* ***NEW!***	8-SOIC	2.38	1.75	1.45
LT6221CDD-ND	Dual 60MHz, 20V/µs LP R/R In/Out Precision Op Amp	8-DFN	4.13	2.95	2.45
LT6221CS8-ND	Dual 60MHz, 20V/µs LP R/R In/Out Precision Op Amp	8-SOIC	3.70	2.60	2.20
LT6221CS8#PBF-ND	Dual 60MHz, 20V/µs LP R/R In/Out Precision Op Amp* ***NEW!***	8-SOIC	3.70	2.60	2.20
LT6222CGN-ND	Quad 60MHz, 20V/µs LP R/R In/Out Precision Op Amp	16-SSOP	5.88	3.91	3.40
LT6222CGN#PBF-ND	Quad 60MHz, 20V/µs LP R/R In/Out Precision Op Amp* ***NEW!***	16-SSOP	5.88	3.91	3.40
LT6230CS6-ND	Single 215MHz, Rail-to-Rail Output, 3.4mA Op Amp	SOT-23-6	2.63	1.75	1.47
LT6230CS6#PBF-ND	Single 215MHz, R/R Output, 3.4mA Op Amp* ***NEW!***	SOT-23-6	2.63	1.75	1.47
LT6230CS6-10-ND	Single 215MHz, Rail-to-Rail Output, 3.4mA Op Amp	SOT-23-6	3.13	2.08	1.72
LT6230CS6-10#PBF-ND	Single 215MHz, R/R Output, 3.4mA Op Amp* ***NEW!***	SOT-23-6	3.13	2.08	1.72
LT6231CDD-ND	Dual 215MHz, Rail-to-Rail Output, 3.4mA Op Amp	8-DFN	4.13	2.95	2.43
LT6231CS8-ND	Dual 215MHz, Rail-to-Rail Output, 3.4mA Op Amp	8-SOIC	3.88	2.77	2.28
LT6231CS8#PBF-ND	Dual 215MHz, Rail-to-Rail Output, 3.4mA Op Amp* ***NEW!***	8-SOIC	3.88	2.77	2.28
LT6232CGN-ND	Quad 215MHz, Rail-to-Rail Output, 3.4mA Op Amp	16-SSOP	6.63	4.73	3.90
LT6232CGN#PBF-ND	Quad 215MHz, R/R Output, 3.4mA Op Amp* ***NEW!***	16-SSOP	6.63	4.73	3.90
LT6233CS6-ND	Single 60MHz, Rail-to-Rail Output, 1.15mA Op Amp	SOT-23-6	3.00	2.14	1.77
LT6233CS6#PBF-ND	Single 60MHz, R/R Output, 1.15mA Op Amp* ***NEW!***	SOT-23-6	3.00	2.14	1.77
LT6233CS6-10-ND	Single 60MHz, Rail-to-Rail Output, 1.15mA Op Amp	SOT-23-6	3.88	2.77	2.29
LT6233CS6-10#PBF-ND	Single 60MHz, R/R Output, 1.15mA Op Amp* ***NEW!***	SOT-23-6	3.88	2.77	2.29
LT6234CDD-ND	Dual 60MHz, Rail-to-Rail Output, 1.15mA Op Amp	8-DFN	5.25	3.75	3.09
LT6234CS8-ND	Dual 60MHz, Rail-to-Rail Output, 1.15mA Op Amp	8-SOIC	4.88	3.48	2.87
LT6234CS8#PBF-ND	Dual 60MHz, Rail-to-Rail Output, 1.15mA Op Amp* ***NEW!***	8-SOIC	4.88	3.48	2.87
LT6235CGN-ND	Quad 60MHz, Rail-to-Rail Output, 1.15mA Op Amp	16-SSOP	8.25	5.89	4.85
LT6300CGN-ND	500mA, 200MHz xDSL Line Driver	16-SSOP	5.88	3.91	3.35
LT6300IGN-ND	500mA, 200MHz xDSL Line Driver	16-SSOP	7.00	4.65	4.00
LT6300IGN#PBF-ND	500mA, 200MHz xDSL Line Driver* ***NEW!***	16-SSOP	7.00	4.65	4.00
LT6301CFE-ND	Dual 500mA Differential xDSL Line Driver	28-TSSOP	12.38	8.25	7.05
LT6301IFE-ND	Dual 500mA Differential xDSL Line Driver	28-TSSOP	15.63	10.38	8.90
LT6550CMS-ND	3.3V, Triple Video Amplifier	10-MSOP	3.58	2.50	2.10
LT6550CMS#PBF-ND	3.3V, Triple Video Amplifier* ***NEW!***	10-MSOP	3.58	2.50	2.10
LT6550IMS-ND	3.3V, Triple Video Amplifier	10-MSOP	4.38	3.20	2.65
LT6550IMS#PBF-ND	3.3V, Triple Video Amplifier* ***NEW!***	10-MSOP	4.38	3.20	2.65
LT6551CMS-ND	3.3V, Quad Video Amplifier	10-MSOP	3.98	2.80	2.35
LT6551CMS#PBF-ND	3.3V, Quad Video Amplifier* ***NEW!***	10-MSOP	3.98	2.80	2.35
LT6551IMS-ND	3.3V, Quad Video Amplifier	10-MSOP	4.88	3.55	2.95
LT6552CDD-ND	3.3V Single Supply Video Difference Amp	8-DFN	2.63	1.85	1.55
LTC1047CN8-ND	Dual Chopper-Stabilized Op Amp with Internal Caps	8-Dip	9.00	6.00	5.10
LTC1047CN8#PBF-ND	Dual Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	8-Dip	9.00	6.00	5.10
LTC1047CSW-ND	Dual Chopper-Stabilized Op Amp with Internal Caps	16-SOIC	10.25	6.85	5.45
LTC1047CSW#PBF-ND	Dual Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	16-SOIC	10.25	6.85	5.45
LTC1049CN8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-Dip	4.00	2.70	2.25
LTC1049CN8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	8-Dip	4.00	2.70	2.25

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1049CS8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-SOIC	5.00	3.35	2.80
LTC1049CS8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps*	8-SOIC	5.00	3.35	2.80
LTC1050ACN8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-Dip	6.88	4.60	3.95
LTC1050ACN8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	8-Dip	6.88	4.60	3.95
LTC1050CN8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-Dip	4.00	2.70	2.25
LTC1050CN8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	8-Dip	4.00	2.70	2.25
LTC1050CS8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-SOIC	5.00	3.35	2.80
LTC1050CS8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	8-SOIC	5.00	3.35	2.80
LTC1051CN8-ND	Dual Chopper-Stabilized Op Amp with Internal Caps	8-Dip	7.50	5.00	4.25
LTC1051CN8#PBF-ND	Dual Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	8-Dip	7.50	5.00	4.25
LTC1051CSW-ND	Dual Chopper-Stabilized Op Amp with Internal Caps	16-SOIC	9.00	6.00	4.95
LTC1051CSW#PBF-ND	Dual Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	16-SOIC	9.00	6.00	4.95
LTC1052CN-ND	Low Noise Chopper-Stabilized Op Amp	14-Dip	8.13	5.42	4.65
LTC1052CN#PBF-ND	Low Noise Chopper-Stabilized Op Amp* ***NEW!***	14-Dip	8.13	5.42	4.65
LTC1052CN8-ND	Low Noise Chopper-Stabilized Op Amp	8-Dip	7.50	5.00	4.30
LTC1052CN8#PBF-ND	Low Noise Chopper-Stabilized Op Amp* ***NEW!***	8-Dip	7.50	5.00	4.30
LTC1053CN-ND	Quad Chopper-Stabilized Op Amp with Internal Caps	14-Dip	13.50	9.00	7.80
LTC1053CN#PBF-ND	Quad Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	14-Dip	13.50	9.00	7.80
LTC1053CSW-ND	Quad Chopper-Stabilized Op Amp with Internal Caps	18-SOIC	16.13	10.75	8.85
LTC1053CSW#PBF-ND	Quad Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	18-SOIC	16.13	10.75	10.75
LTC1150CN8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-Dip	6.88	4.60	3.85
LTC1150CN8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	8-Dip	6.88	4.60	3.85
LTC1150CS8-ND	Chopper-Stabilized Op Amp with Internal Caps	8-SOIC	8.13	5.40	4.55
LTC1150CS8#PBF-ND	Chopper-Stabilized Op Amp with Internal Caps* ***NEW!***	8-SOIC	8.13	5.40	4.55
LTC1151CN8-ND	Dual, Zero-Drift Op Amp	8-Dip	10.75	7.15	5.95
LTC1151CN8#PBF-ND	Dual, Zero-Drift Op Amp* ***NEW!***	8-Dip	10.75	7.15	5.95
LTC1151CSW-ND	Dual, Zero-Drift Op Amp	16-SOIC	12.50	8.35	6.95
LTC1151CSW#PBF-ND	Dual, Zero-Drift Op Amp* ***NEW!***	16-SOIC	12.50	8.35	6.95
LTC1152CN8-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp	8-Dip	6.00	4.00	3.25
LTC1152CN8#PBF-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp* ***NEW!***	8-Dip	6.00	4.00	3.25
LTC1152CS8-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp	8-SOIC	6.50	4.35	3.50
LTC1152CS8#PBF-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp* ***NEW!***	8-SOIC	6.50	4.35	3.50
LTC1152IS8-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp, Ind. Temp	8-SOIC	7.25	4.82	3.95
LTC1152IS8#PBF-ND	Rail-to-Rail, In/Out, Zero-Drift Op Amp, Ind. Temp.* ***NEW!***	8-SOIC	7.25	4.82	3.95
LTC1250CN8-ND	Very Low Noise, Zero-Drift Bridge Amp	8-Dip	5.50	3.70	2.90
LTC1250CN8#PBF-ND	Very Low Noise, Zero-Drift Bridge Amp* ***NEW!***	8-Dip	5.50	3.70	2.90
LTC1250CS8-ND	Very Low Noise, Zero-Drift Bridge Amp	8-SOIC	6.25	4.20	3.30
LTC1250CS8#PBF-ND	Very Low Noise, Zero-Drift Bridge Amp* ***NEW!***	8-SOIC	6.25	4.20	3.30
LTC2050HS5-ND	7V, Zero-Drift Op Amp	SOT-23-5	2.75	1.83	1.42
LTC2050HS5#PBF-ND	7V, Zero-Drift Op Amp* ***NEW!***	SOT-23-5	2.75	1.83	1.42
LTC2050HS6-ND	7V, Zero-Drift Op Amp	SOT-23-6	3.00	2.00	1.52
LTC2050HS6#PBF-ND	7V, Zero-Drift Op Amp* ***NEW!***	SOT-23-6	3.00	2.00	1.52
LTC2050HVCS5-ND	12V, High Voltage, Zero-Drift Op Amp	SOT-23-5	3.10	2.06	1.61
LTC2050HVCS5#PBF-ND	12V, High Voltage, Zero-Drift Op Amp* ***NEW!***	SOT-23-5	3.10	2.06	1.61
LTC2050HVCS6-ND	12V, High Voltage, Zero-Drift Op Amp	SOT-23-6	3.35	2.23	1.71
LTC2050HVCS6#PBF-ND	12V, High Voltage, Zero-Drift Op Amp* ***NEW!***	SOT-23-6	3.35	2.23	1.71
LTC2050HVCS8-ND	12V, High Voltage, Zero-Drift Op Amp	8-SOIC	3.00	2.00	1.55
LTC2050HVCS8#PBF-ND	12V, High Voltage, Zero-Drift Op Amp* ***NEW!***	8-SOIC	3.00	2.00	1.55
LTC2050HVCS8TR-ND	12V, High Voltage, Zero-Drift Op Amp	8-SOIC	4000.00/2,500		
LTC2050HVHS5-ND	12V, High Voltage, Zero-Drift Op Amp	SOT-23-5	3.35	2.23	1.76
LTC2050HVHS6-ND	12V, High Voltage, Zero-Drift Op Amp	SOT-23-6	3.73	2.48	2.01
LTC2050HVIS8-ND	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	3.25	2.16	1.70
LTC2050HVIS8#PBF-ND	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp* ***NEW!***	8-SOIC	3.25	2.16	1.70
LTC2050HVIS8TR-ND	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	4375.00/2,500		
LTC2050IS8-ND	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	2.63	1.75	1.35
LTC2050IS8#PBF-ND	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp* ***NEW!***	8-SOIC	2.63	1.75	1.35
LTC2050IS8TR-ND	12V, High Voltage, Zero-Drift Op Amp, Ind. Temp.	8-SOIC	3500.00/2,500		
LTC2051CDD-ND	Dual Zero-Drift Op Amp	8-DFN	4.75	3.39	2.79
LTC2051HMS8-ND	Dual Zero-Drift Op Amp	8-MSOP	4.75	3.16	2.45
LTC2051HMS8#PBF-ND	Dual Zero-Drift Op Amp* ***NEW!***	8-MSOP	4.75	3.16	2.45
LTC2051HS8-ND	Dual Zero-Drift Op Amp	8-SOIC	4.50	2.99	2.40
LTC2051HVCDD-ND	Dual Zero-Drift Op Amp	8-DFN	5.75	4.11	3.38
LTC2051HVCDD#PBF-ND	Dual Zero-Drift Op Amp* ***NEW!***	8-DFN	5.75	4.11	3.38
LTC2051HVHMS8-ND	Dual Zero Drift Op Amp	8-MSOP	6.00	3.99	3.10
LTC2051HVHMS8#PBF-ND	Dual Zero Drift Op Amp* ***NEW!***	8-MSOP	6.00	3.99	3.10
LTC2051HVHS8-ND	Dual Zero-Drift Op Amp	8-SOIC	5.75	3.82	2.95
LTC2051HVHS8#PBF-ND	Dual Zero-Drift Op Amp* ***NEW!***	8-SOIC	5.75	3.82	2.95
LTC2051HVIMS8-ND	Dual Zero-Drift Op Amp	8-MSOP	6.00	3.99	3.10
LTC2051HVIMS8#PBF-ND	Dual Zero-Drift Op Amp* ***NEW!***	8-MSOP	6.00	3.99	3.10
LTC2052CGN-ND	Quad Zero-Drift Op Amp	16-SSOP	8.38	5.57	4.20
LTC2052CGN#PBF-ND	Quad Zero-Drift Op Amp* ***NEW!***	16-SSOP	8.38	5.57	4.20
LTC2052CGNTR-ND	Quad Zero-Drift Op Amp	16-SSOP	10625.00/2,500		
LTC2052CS-ND	Quad Zero-Drift Op Amp	14-SOIC	7.75	5.15	3.90
LTC2052CS#PBF-ND	Quad Zero-Drift Op Amp* ***NEW!***	14-SOIC	7.75	5.15	3.90
LTC2052CSTR-ND	Quad Zero-Drift Op Amp	14-SOIC	9875.00/2,500		
LTC2052HGN-ND	Quad Zero-Drift Op Amp	16-SSOP	9.00	5.98	4.80
LTC2052HS-ND	Quad Zero-Drift Op Amp	14-SOIC	8.38	5.57	4.45
LTC2052HS#PBF-ND	Quad Zero-Drift Op Amp* ***NEW!***	14-SOIC	8.38	5.57	4.45
LTC2052IS#PBF-ND	Quad Zero-Drift Op Amp* ***NEW!***	14-SOIC	8.38	5.57	4.20
LTC2052HVCGN-ND	Quad Zero-Drift Op Amp	16-SSOP	10.50	6.98	5.25
LTC2052HVCGNTR-ND	Quad Zero-Drift Op Amp	16-SSOP	13282.50/2,500		
LTC2052HVCS-ND	Quad Zero-Drift Op Amp	14-SOIC	9.63	6.40	4.82
LTC2052HVCS#PBF-ND	Quad Zero-Drift Op Amp* ***NEW!***	14-SOIC	9.63	6.40	4.82
LTC2052HVCSTR-ND	Quad Zero-Drift Op Amp	14-SOIC	12187.50/2,500		
LTC2052HVHS-ND	Quad Zero-Drift Op Amp	14-SOIC	10.50	6.98	5.75
LTC2052HVHS#PBF-ND	Quad Zero-Drift Op Amp* ***NEW!***	14-SOIC	10.50	6.98	5.75
LTC2052HVIGNTR-ND	Quad Zero-Drift Op Amp, Ind. Temp.	16-SSOP	14062.50/2,500		
LTC2052HVISTR-ND	Quad Zero-Drift Op Amp, Ind. Temp.	14-SOIC	13282.50/2,500		
LTC2052IGNTR-ND	Quad Zero-Drift Op Amp, Ind. Temp.	16-SSOP	11407.50/2,500		
LTC2054CS5#PBF-ND	Single Zero-Drift Op Amp*	SOT-23-5	2.13	1.42	1.17
LTC2054HS5#PBF-ND	Single Zero-Drift Op Amp*	SOT-23-5	2.53	1.68	1.37
LTC2055CMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	3.20	2.29	1.88
LTC2055HMS8#PBF-ND	Dual Zero-Drift Op Amp*	8-MSOP	3.83	2.73	2.25
LTC6078ACMS8#PBF-ND	Micropower Precision, Dual CMOS R/R In/Out Amp* ***NEW!***	8-MSOP	4.50	3.21	2.64
LTC6078AIMS8#PBF-ND	Micropower Precision, Dual CMOS R/R In/Out Amp* ***NEW!***	8-MSOP	5.18	3.69	3.04

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC6078CDD#PBF-ND	Micropower Precision, Dual CMOS R/R In/Out Amp* ***NEW!***	10-DFN	2.98	2.12	1.75
LTC6078CMS8#PBF-ND	Micropower Precision, Dual CMOS R/R In/Out Amp* ***NEW!***	8-MSOP	2.98	2.12	1.75
LTC6078IDD#PBF-ND	Micropower Precision, Dual CMOS R/R In/Out Amp* ***NEW!***	10-DFN	3.40	2.42	2.00
LTC6078IMS8#PBF-ND	Micropower Precision, Dual CMOS R/R In/Out Amp* ***NEW!***	8-MSOP	3.40	2.42	2.00
LTC6079CDHC#PBF-ND	Micropower Precision, Quad CMOS R/R In/Out Amp* ***NEW!***	16-DFN	5.05	3.60	2.97
LTC6079CGN#PBF-ND	Micropower Precision, Quad CMOS R/R In/Out Amp* ***NEW!***	16-SSOP	5.05	3.60	2.97
LTC6079IDHC#PBF-ND	Micropower Precision, Quad CMOS R/R In/Out Amp* ***NEW!***	16-DFN	5.80	4.14	3.42
LTC6079IGN#PBF-ND	Micropower Precision, Quad CMOS R/R In/Out Amp* ***NEW!***	16-SSOP	5.80	4.14	3.42
LTC6910-1CTS8-ND	Digitally Controlled PGA	SOT-23-8	2.38	2.06	1.54
LTC6910-1CTS8#PBF-ND	Digitally Controlled PGA* ***NEW!***	SOT-23-8	2.38	2.06	1.54
LTC6910-2CTS8-ND	Digitally Controlled PGA	TSOT-23-8	2.38	2.06	1.54
LTC6910-2CTS8#PBF-ND	Digitally Controlled PGA* ***NEW!***	TSOT-23-8	2.38	2.06	1.54
LTC6910-2HTS8-ND	Digitally Controlled PGA	SOT-23-8	3.00	2.46	1.88
LTC6910-3CTS8-ND	Digitally Controlled PGA	TSOT-23-8	2.38	2.06	1.54

Differential Amplifier

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1187CN8-ND	Adjustable Low Power Video Difference Amp	8-Dip	5.50	3.67	2.95
LT1187CS8-ND	Adjustable Low Power Video Difference Amp	8-SOIC	6.13	4.08	3.45
LT1187CS8#PBF-ND	Adjustable Low Power Video Difference Amp* ***NEW!***	8-SOIC	6.13	4.08	3.45
LT1193CN8-ND	Adjustable Gain Video Difference Amp	8-Dip	5.50	3.67	2.95
LT1193CN8#PBF-ND	Adjustable Gain Video Difference Amp* ***NEW!***	8-Dip	5.50	3.67	2.95
LT1193CS8-ND	Adjustable Gain Video Difference Amp	8-SOIC	6.13	4.08	3.45
LT1193CS8#PBF-ND	Adjustable Gain Video Difference Amp* ***NEW!***	8-SOIC	6.13	4.08	3.45
LT1193IS8-ND	Adjustable Gain Video Difference Amp	8-SOIC	6.75	4.49	3.90
LT1568CGN-ND	Low Noise High Frequency Filter Building Block	16-SSOP	8.50	5.65	4.70
LT1568CGN#PBF-ND	Low Noise High Frequency Filter Building Block* ***NEW!***	16-SSOP	8.50	5.65	4.70
LTC1992-1CMS8-ND	Gain of 1 Fully Differential In/Out Amp/Driver	8-MSOP	7.88	5.23	4.35
LTC1992-1CMS8#PBF-ND	Gain of 1 Fully Differential In/Out Amp/Driver* ***NEW!***	8-MSOP	7.88	5.23	4.35
LTC1992-2CMS8-ND	Gain of 2 Fully Differential In/Out Amp/Driver	8-MSOP	7.88	5.23	4.35
LTC1992-2CMS8#PBF-ND	Gain of 2 Fully Differential In/Out Amp/Driver* ***NEW!***	8-MSOP	7.88	5.23	4.35
LTC1992CMS8-ND	Fully Differential In/Out Amp/Driver	8-MSOP	3.30	2.80	2.15
LTC1992CMS8#PBF-ND	Fully Differential In/Out Amp/Driver* ***NEW!***	8-MSOP	3.30	2.80	2.15
LT1993CUD-2#PBF-ND	800MHz Low Distortion, Low Noise Differential Amp/ADC Driver* ***NEW!***	16-QFN	5.88	4.20	3.45
LT1993CUD-4#PBF-ND	900MHz Low Distortion, Low Noise Differential Amp/ADC Driver* ***NEW!***	16-QFN	5.88	4.20	3.45
LT1993CUD-10#PBF-ND	700MHz Low Distortion, Low Noise Differential Amp/ADC Driver* ***NEW!***	16-QFN	5.88	4.20	3.45
LT1993IUD-2#PBF-ND	800MHz Low Distortion, Low Noise Differential Amp/ADC Driver* ***NEW!***	16-QFN	6.75	4.65	3.97
LT1993IUD-4#PBF-ND	900MHz Low Distortion, Low Noise Differential Amp/ADC Driver* ***NEW!***	16-QFN	6.75	4.65	3.97
LT1993IUD-10#PBF-ND	700MHz Low Distortion, Low Noise Differential Amp/ADC Driver* ***NEW!***	16-QFN	6.75	4.65	3.97
LT1994CDD#PBF-ND	Low Noise, Low Distortion Fully Diff. In/Out Amp/Driver* ***NEW!***	8-DFN	3.30	2.35	1.95
LT1994IDD#PBF-ND	Low Noise, Low Distortion Fully Diff. In/Out Amp/Driver* ***NEW!***	8-DFN	3.80	2.70	2.25
LT6552CDD#PBF-ND	3.3V Single Supply Video Difference Amp* ***NEW!***	8-DFN	2.63	1.85	1.55
LT6552CS8#PBF-ND	3.3V Single Supply Video Difference Amp* ***NEW!***	8-SOIC	2.20	1.55	1.30
LT6552IDD#PBF-ND	3.3V Single Supply Video Difference Amp* ***NEW!***	8-DFN	3.13	2.20	1.85
LT6552IS8#PBF-ND	3.3V Single Supply Video Difference Amp* ***NEW!***	8-SOIC	2.70	1.90	1.60
LT6600CS8-20#PBF-ND	Very Low Noise, Diff. Amp and 20MHz Lowpass Filter* ***NEW!***	8-SOIC	5.88	3.80	3.40
LT6600IS8-20#PBF-ND	Very Low Noise, Diff. Amp and 20MHz Lowpass Filter* ***NEW!***	8-SOIC	6.75	4.35	3.90

Instrumentation Amplifier

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1101ACN8-ND	Precision Micropower Single Instrumentation Amp	8-Dip	12.25	8.17	6.95
LT1101ACN8#PBF-ND	Precision Micropower Single Instrumentation Amp* ***NEW!***	8-Dip	12.25	8.17	6.95
LT1101AIN8-ND	Prec. Micropower Single Instrumentation Amp, Ind. Temp.	8-Dip	15.25	10.17	8.70
LT1101AIN8#PBF-ND	Prec. Micropower Single Instrumentation Amp, Ind. Temp.* ***NEW!***	8-Dip	15.25	10.17	8.70
LT1101CN8-ND	Precision Micropower Single Instrumentation Amp	8-Dip	8.75	5.83	4.95
LT1101CN8#PBF-ND	Precision Micropower Single Instrumentation Amp* ***NEW!***	8-Dip	8.75	5.83	4.95
LT1101IN8-ND	Prec. Micropower Single Instrumentation Amp, Ind. Temp.	8-Dip	10.88	7.25	6.25
LT1101IN8#PBF-ND	Prec. Micropower Single Instrumentation Amp, Ind. Temp.* ***NEW!***	8-Dip	10.88	7.25	6.25
LT1101SW-ND	Precision Micropower Single Instrumentation Amp	16-SOIC	10.50	7.00	5.95
LT1101SW#PBF-ND	Prec. Micropower Single Instrumentation Amp* ***NEW!***	16-SOIC	10.50	7.00	5.95
LT1102ACN8-ND	Precision Micropower Instrumentation Amp, JFET Input	8-Dip	12.25	8.17	6.95
LT1102CN8-ND	Precision Micropower Instrumentation Amp, JFET Input	8-Dip	8.75	5.83	4.95
LT1102CN8#PBF-ND	Prec. Micropower Instrumentation Amp, JFET Input* ***NEW!***	8-Dip	8.75	5.83	4.95
LT1167ACN8-ND	Programmable Precision Instrumentation Amp	8-Dip	11.13	7.39	5.75
LT1167ACS8-ND	Programmable Precision Instrumentation Amp	8-SOIC	11.13	7.39	5.75
LT1167ACS8#PBF-ND	Programmable Precision Instrumentation Amp* ***NEW!***	8-SOIC	11.13	7.39	5.75
LT1167AIS8-ND	Programmable Precision Instrumentation Amp	8-SOIC	12.75	8.47	6.65
LT1167AIS8#PBF-ND	Programmable Precision Instrumentation Amp* ***NEW!***	8-SOIC	12.75	8.47	6.65
LT1167CN8-ND	Programmable Precision Instrumentation Amp	8-Dip	6.38	4.24	3.30
LT1167CN8#PBF-ND	Programmable Precision Instrumentation Amp* ***NEW!***	8-Dip	6.38	4.24	3.30
LT1167CS8-ND	Programmable Precision Instrumentation Amp	8-SOIC	6.38	4.24	3.30
LT1167CS8#PBF-ND	Programmable Precision Instrumentation Amp* ***NEW!***	8-SOIC	6.38	4.24	3.30
LT1167IS8-ND	Programmable Precision Instrumentation Amp	8-SOIC	7.38	4.90	3.85
LT1167IS8#PBF-ND	Programmable Precision Instrumentation Amp* ***NEW!***	8-SOIC	7.38	4.90	3.85
LT1789CS8-1-ND	Micropower Single Rail-to-Rail Out Instrumentation Amp	8-SOIC	6.38	4.24	3.30
LT1789CS8-1#PBF-ND	Micropower Single R/R Out Instrumentation Amp* ***NEW!***	8-SOIC	6.38	4.24	3.30
LT1789CS8-10-ND	Micropower Single Rail-to-Rail Out Instrumentation Amp	8-SOIC	6.38	4.55	3.75
LT1789CS8-10#PBF-ND	Micropower Single R/R Out Instrumentation Amp* ***NEW!***	8-SOIC	6.38	4.55	3.75
LT1789IS8-1-ND	Micropower Single Rail-to-Rail Out Instrumentation Amp	8-SOIC	7.38	4.90	3.85
LT1789IS8-1#PBF-ND	Micropower Single R/R Out Instrumentation Amp* ***NEW!***	8-SOIC	7.38	4.90	3.85
LT1920CN8-ND	Precision Instrumentation Amplifier	8-Dip	6.25	4.15	3.25
LT1920CN8#PBF-ND	Precision Instrumentation Amplifier* ***NEW!***	8-Dip	6.25	4.15	3.25
LT1920CS8-ND	Precision Instrumentation Amplifier	8-SOIC	6.25	4.15	3.25
LT1920CS8#PBF-ND	Precision Instrumentation Amplifier* ***NEW!***	8-SOIC	6.25	4.15	3.25
LTC1100CN8-ND	Precision, Chopper-Stabilized Instrumentation Amp	8-Dip	11.25	7.50	6.45
LTC1100CN8#PBF-ND	Precision, Chopper-Stabilized Instrumentation Amp* ***NEW!***	8-Dip	11.25	7.50	6.45
LTC1100CSW-ND	Precision, Chopper-Stabilized Instrumentation Amp	16-SOIC	13.13	8.75	7.40
LTC1100CSW#PBF-ND	Prec., Chopper-Stabilized Instrumentation Amp* ***NEW!***	16-SOIC	13.13	8.75	7.40
LTC2053CDD-ND	Precision Rail-to-Rail I/O Zero-Drift Instrumentation Amp	8-DFN	7.03	5.02	4.13
LTC2053CMS8-ND	Precision Rail-to-Rail I/O Zero-Drift Instrumentation Amp	8-MSOP	6.38	4.24	3.30
LTC2053CMS8#PBF-ND	Precision Rail-to-Rail I/O Zero-Drift Instrumentation Amp* ***NEW!***	8-MSOP	6.38	4.24	3.30
LTC2053CMS8TR-ND	Precision Rail-to-Rail I/O Zero-Drift Instrumentation Amp	8-MSOP	8375.00/2,500		
LTC2053IMS8-ND	Precision Rail-to-Rail I/O Zero-Drift Instrumentation Amp	8-MSOP	7.38	4.90	3.85
LTC2053IMS8#PBF-ND	Precision Rail-to-Rail I/O Zero-Drift Instrumentation Amp* ***NEW!***	8-MSOP	7.38	4.90	3.85
LTC6800HMS8-ND	Rail-to-Rail In/Out Instrumentation Amp	8-MSOP	3.10	2.25	1.85
LTC6800HMS8#PBF-ND	Rail-to-Rail In/Out Instrumentation Amp* ***NEW!***	8-MSOP	3.10	2.25	1.85

Comparator

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT319AN#PBF-ND	Dual Comparator* ***NEW!***	14-Dip	3.38	2.25	1.95
LT1011ACN8-ND	5V Precision Voltage Comparator	8-Dip	5.25	3.50	2.85
LT1011ACN8#PBF-ND	5V Precision Voltage Comparator* ***NEW!***	8-Dip	5.25	3.50	2.85
LT1011AIS8-ND	5V Precision Voltage Comparator	8-SOIC	5.75	3.82	3.15
LT1011AIS8#PBF-ND	5V Precision Voltage Comparator* ***NEW!***	8-SOIC	5.75	3.82	3.15
LT1011CN8-ND	5V Precision Voltage Comparator	8-Dip	2.38	1.58	1.40
LT1011CN8#PBF-ND	5V Precision Voltage Comparator* ***NEW!***	8-Dip	2.38	1.58	1.40
LT1011CS8-ND	5V Precision Voltage Comparator	8-SOIC	3.00	2.00	1.70
LT1011CS8#PBF-ND	5V Precision Voltage Comparator* ***NEW!***	8-SOIC	3.00	2.00	1.70
LT1016CN8-ND	High-Speed, 10nS Comparator	8-Dip	5.50	3.67	2.95
LT1016CN8#PBF-ND	High-Speed, 10nS Comparator* ***NEW!***	8-Dip	5.50	3.67	2.95
LT1016CS8-ND	High-Speed, 10nS Comparator	8-SOIC	6.13	4.08	3.20
LT1016CS8#PBF-ND	High-Speed, 10nS Comparator* ***NEW!***	8-Dip	6.13	4.08	3.20
LT1017CN8-ND	Micropower Dual Comparator, 30µA Supply Current	8-Dip	3.63	2.42	2.10
LT1017CN8#PBF-ND	Micropower Dual Comparator, 30µA Supply Current* ***NEW!***	8-Dip	3.63	2.42	2.10
LT1017CS8-ND	Micropower Dual Comparator, 30µA Supply Current	8-SOIC	4.00	2.67	2.30
LT1017CS8#PBF-ND	Micropower Dual Comparator, 30µA Supply Current* ***NEW!***	8-SOIC	4.00	2.67	2.30
LT1017IS8-ND	Micropower Dual Comparator, 30µA Supply Current	8-SOIC	4.88	3.25	2.75
LT1017IS8#PBF-ND	Micropower Dual Comparator, 30µA Supply Current* ***NEW!***	8-SOIC	4.88	3.25	2.75
LT1018CN8-ND	Micropower Dual Comparator, 110µA Supply Current	8-Dip	3.38	2.25	1.95
LT1018CN8#PBF-ND	Micropower Dual Comparator, 110µA Supply Current* ***NEW!***	8-Dip	3.38	2.25	1.95
LT1018CS8-ND	Micropower Dual Comparator, 110µA Supply Current	8-SOIC	3.75	2.50	2.20
LT1018CS8#PBF-ND	Micropower Dual Comparator, 110µA Supply Current* ***NEW!***	8-SOIC	3.75	2.50	2.20
LT1116CN8-ND	Single Supply 12nS Ground-Sensing Comparator	8-Dip	6.00	4.00	3.50
LT1116CN8#PBF-ND	Single Supply 12nS Ground-Sensing Comparator* ***NEW!***	8-Dip	6.00	4.00	3.50
LT1116CS8-ND	Single Supply 12nS Ground-Sensing Comparator	8-SOIC	6.63	4.42	3.75
LT1116CS8#PBF-ND	Single Supply 12nS Ground-Sensing Comparator* ***NEW!***	8-SOIC	6.63	4.42	3.75
LT1394CS8-ND	7nS, Low Power Comparator	8-SOIC	5.13	3.41	2.65
LT1394CS8#PBF-ND	7nS, Low Power Comparator* ***NEW!***	8-SOIC	5.13	3.41	2.65
LT1394IS8-ND	7nS, Low Power Comparator, Ind. Temp.	8-SOIC	5.75	3.82	2.90
LT1394IS8#PBF-ND	7nS, Low Power Comparator, Ind. Temp.* ***NEW!***	8-SOIC	5.75	3.82	2.90
LT1671CS8-ND	60nS Low Power Ground-Sensing Comparator	8-SOIC	3.50	2.33	1.80
LT1671CS8#PBF-ND	60nS Low Power Ground-Sensing Comparator* ***NEW!***	8-SOIC	3.50	2.33	1.80
LT1711CMS8-ND	Single Rail-to-Rail, In/Out Comparator	8-MSOP	4.38	2.91	2.50
LT1711CMS8#PBF-ND	Single Rail-to-Rail, In/Out Comparator* ***NEW!***	8-MSOP	4.38	2.91	2.50
LT1711IMS8-ND	Single Rail-to-Rail, In/Out Comparator, Ind. Temp.	8-MSOP	4.75	3.16	2.65
LT1711IMS8#PBF-ND	Single R/R, In/Out Comparator, Ind. Temp.* ***NEW!***	8-MSOP	4.75	3.16	2.65
LT1713IMS8-ND	Single, Low Power, Rail-to-Rail In/Out Comparator	8-MSOP	4.38	2.91	2.35
LT1713IMS8#PBF-ND	Single, Low Power, R/R In/Out Comparator* ***NEW!***	8-MSOP	4.38	2.91	2.35
LT1714CGN-ND	Dual Rail-to-Rail, In/Out Comparator	16-SSOP	6.63	4.40	3.32
LT1714CGN#PBF-ND	Dual Rail-to-Rail, In/Out Comparator* ***NEW!***	16-SSOP	6.63	4.40	3.32
LT1714IGN-ND	Dual Rail-to-Rail, In/Out Comparator, Ind. Temp.	16-SSOP	7.13	4.74	3.57
LT1714IGN#PBF-ND	Dual Rail-to-Rail, In/Out Comparator, Ind. Temp.* ***NEW!***	16-SSOP	7.13	4.74	3.57
LT1715CMS-ND	Dual Rail-to-Rail, In/Out Comparator	10-MSOP	6.88	4.57	3.65
LT1715CMS#PBF-ND	Dual Rail-to-Rail, In/Out Comparator* ***NEW!***	10-MSOP	6.88	4.57	3.65
LT1716CS5-ND	44V, Micropower Precision Rail-to-Rail Comparator	SOT-23-5	2.13	1.55	1.28
LT1716CS5#PBF-ND	44V, Micropower Precision R/R Comparator* ***NEW!***	SOT-23-5	2.13	1.55	1.28
LT1716IS5-ND	44V, Micropower Precision Rail-to-Rail Comparator	SOT-23-5	2.50	1.85	1.53
LT1716IS5#PBF-ND	44V, Micropower Precision R/R Comparator* ***NEW!***	SOT-23-5	2.50	1.85	1.53
LT1719CS6-ND	Single Rail-to-Rail, In/Out Comparator	SOT-23-6	3.00	2.00	1.62
LT1719CS6#PBF-ND	Single Rail-to-Rail, In/Out Comparator* ***NEW!***	SOT-23-6	3.00	2.00	1.62
LT1719CS8-ND	Single Rail-to-Rail, In/Out Comparator	8-SOIC	4.00	2.66	2.10
LT1719CS8#PBF-ND	Single Rail-to-Rail, In/Out Comparator* ***NEW!***	8-SOIC	4.00	2.66	2.10
LT1719IS6-ND	Single Rail-to-Rail, In/Out Comparator, Ind. Temp.	SOT-23-6	3.38	2.25	1.77
LT1719IS6#PBF-ND	Single R/R, In/Out Comparator, Ind. Temp.* ***NEW!***	SOT-23-6	3.38	2.25	1.77
LT1720CDD-ND	Dual Rail-to-Rail, In/Out Comparator	8-DFN	7.00	4.65	3.71
LT1720CMS8-ND	Dual Rail-to-Rail, In/Out Comparator	8-MSOP	6.50	4.32	3.45
LT1720CMS8#PBF-ND	Dual Rail-to-Rail, In/Out Comparator* ***NEW!***	8-MSOP	6.50	4.32	3.45
LT1720CS8-ND	Dual Rail-to-Rail, In/Out Comparator	8-SOIC	6.00	3.99	3.00
LT1720CS8#PBF-ND	Dual Rail-to-Rail, In/Out Comparator* ***NEW!***	8-SOIC	6.00	3.99	3.00
LT1720IS8-ND	Dual Rail-to-Rail, In/Out Comparator, Ind. Temp.	8-SOIC	7.00	4.65	3.50
LT1720IS8#PBF-ND	Dual Rail-to-Rail, In/Out Comparator, Ind. Temp.* ***NEW!***	8-SOIC	7.00	4.65	3.50
LT1721CGN-ND	Quad Rail-to-Rail, In/Out Comparator	16-SSOP	9.38	6.23	5.00
LT1721CGN#PBF-ND	Quad Rail-to-Rail, In/Out Comparator* ***NEW!***	16-SSOP	9.38	6.23	5.00
LT1721CS-ND	Quad Rail-to-Rail, In/Out Comparator	16-SOIC	9.00	5.98	4.80
LT1721CS#PBF-ND	Quad Rail-to-Rail, In/Out Comparator* ***NEW!***	16-SOIC	9.00	5.98	4.80
LT6700CS6-1-ND	Micropower, Low Voltage, Dual Comparator	TSOT-23-6	2.63	2.16	1.68
LT6700CS6-1#PBF-ND	Micropower, Low Voltage, Dual Comparator* ***NEW!***	TSOT-23-6	2.63	2.16	1.68
LT6700CS6-2-ND	Micropower, Low Voltage, Dual Comparator	TSOT-23-6	2.63	2.16	1.68
LT6700CS6-2#PBF-ND	Micropower, Low Voltage, Dual Comparator* ***NEW!***	TSOT-23-6	2.63	2.16	1.68
LT6700CS6-3-ND	Micropower, Low Voltage, Dual Comparator	TSOT-23-6	2.63	2.16	1.68
LT6700CS6-3#PBF-ND	Micropower, Low Voltage, Dual Comparator* ***NEW!***	TSOT-23-6	2.63	2.16	1.68
LTC1040CN-ND	Dual Micropower Comparator	18-Dip	3.88	2.58	2.20
LTC1040CN#PBF-ND	Dual Micropower Comparator* ***NEW!***	18-Dip	3.88	2.58	2.20
LTC1040CSW-ND	Dual Micropower Comparator	18-SOIC	4.63	3.08	2.85
LTC1042CN8-ND	CMOS Window Comparator	8-Dip	3.38	2.25	1.90
LTC1042CN8#PBF-ND	CMOS Window Comparator* ***NEW!***	8-Dip	3.38	2.25	1.90
LTC1440CMS8-ND	Ultra Low Power Single Comparator with Reference	8-MSOP	3.13	2.15	1.70

* ***RoHS Compliant***

(Continued)

AMPLIFIERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1440CMS8#PBF-ND	Ultra Low Power Single Comparator with Reference* ***NEW!***	8-MSOP	3.13	2.15	1.70
LTC1440CN8-ND	Ultra Low Power Single Comparator with Reference	8-Dip	2.75	1.85	1.50
LTC1440CN8#PBF-ND	Ultra Low Power Single Comparator with Reference* ***NEW!***	8-Dip	2.75	1.85	1.50
LTC1440CS8-ND	Ultra Low Power Single Comparator with Reference	8-SOIC	2.75	1.85	1.50
LTC1440CS8#PBF-ND	Ultra Low Power Single Comparator with Reference* ***NEW!***	8-SOIC	2.75	1.85	1.50
LTC1440IN8-ND	Ultra Low Power Single Comparator with Ref., Ind. Temp.	8-Dip	3.25	2.20	1.75
LTC1440IS8-ND	Ultra Low Power Single Comparator with Ref., Ind. Temp.	8-SOIC	3.25	2.20	1.75
LTC1440IS8#PBF-ND	Ultra Low Power Single Comparator with Ref., Ind. Temp* ***NEW!***	8-SOIC	3.25	2.20	1.75
LTC1441CS8-ND	Ultra Low Power Dual Comparator with Reference	8-SOIC	3.38	2.25	1.85
LTC1441CS8#PBF-ND	Ultra Low Power Dual Comparator with Reference* ***NEW!***	8-SOIC	3.38	2.25	1.85
LTC1441IS8-ND	Ultra Low Power Dual Comparator with Ref., Ind. Temp.	8-SOIC	4.00	2.66	2.20
LTC1441IS8#PBF-ND	Ultra Low Power Dual Comparator with Ref., Ind. Temp* ***NEW!***	8-SOIC	4.00	2.66	2.20
LTC1442CN8-ND	Ultra Low Power Dual Comparator with Reference	8-Dip	4.13	2.74	2.25
LTC1442CS8-ND	Ultra Low Power Dual Comparator with Reference	8-SOIC	4.13	2.74	2.25
LTC1442CS8#PBF-ND	Ultra Low Power Dual Comparator with Reference* ***NEW!***	8-SOIC	4.13	2.74	2.25
LTC1442IN8-ND	Ultra Low Power Dual Comparator with Ref., Ind. Temp.	8-Dip	4.88	3.24	2.70
LTC1442IS8-ND	Ultra Low Power Dual Comparator with Ref., Ind. Temp.	8-SOIC	4.88	3.24	2.70
LTC1442IS8#PBF-ND	Ultra Low Power Dual Comparator with Ref., Ind. Temp* ***NEW!***	8-SOIC	4.88	3.24	2.70
LTC1443CS-ND	Ultra Low Power Quad Comparator with Reference	16-SOIC	4.75	3.16	2.50
LTC1443CN#PBF-ND	Ultra Low Power Quad Comparator with Ref., Ind. Temp* ***NEW!***	16-Dip	4.75	3.16	2.50
LTC1443IN-ND	Ultra Low Power Quad Comparator with Ref., Ind. Temp.	16-Dip	5.50	3.66	3.05
LTC1443IS-ND	Ultra Low Power Quad Comparator with Ref., Ind. Temp.	16-SOIC	5.50	3.66	3.05
LTC1443IS#PBF-ND	Ultra Low Power Quad Comparator with Ref., Ind. Temp* ***NEW!***	16-SOIC	5.50	3.66	3.05
LTC1444CN-ND	Ultra Low Power Quad Comparator with Reference	16-Dip	4.75	3.16	2.50
LTC1444CS-ND	Ultra Low Power Quad Comparator with Reference	16-SOIC	4.75	3.16	2.50
LTC1444CS#PBF-ND	Ultra Low Power Quad Comparator with Reference* ***NEW!***	16-SOIC	4.75	3.16	2.50
LTC1444IN-ND	Ultra Low Power Quad Comparator with Ref., Ind. Temp.	16-Dip	5.50	3.66	3.05
LTC1444IS-ND	Ultra Low Power Quad Comparator with Ref., Ind. Temp.	16-SOIC	5.50	3.66	3.05
LTC1444IS#PBF-ND	Ultra Low Power Quad Comparator with Ref., Ind. Temp* ***NEW!***	16-SOIC	5.50	3.66	3.05
LTC1445IN-ND	Ultra Low Power Quad Comparator with Ref., Ind. Temp.	16-Dip	5.50	3.66	3.05
LTC1445IS-ND	Ultra Low Power Quad Comparator with Ref., Ind. Temp.	16-SOIC	5.50	3.66	3.05
LTC1445IS#PBF-ND	Ultra Low Power Quad Comparator with Ref., Ind. Temp* ***NEW!***	16-SOIC	5.50	3.66	3.05
LTC1531CSW-ND	Self-Powered Isolated Comparator	28-SOIC	9.38	6.23	4.69
LTC1540CDD-ND	Nanopower Comparator with Reference	8-DFN	3.63	2.59	2.13
LTC1540CMS8-ND	Nanopower Comparator with Reference	8-MSOP	3.38	2.25	1.85
LTC1540CMS8#PBF-ND	Nanopower Comparator with Reference* ***NEW!***	8-MSOP	3.38	2.25	1.85
LTC1540CS8-ND	Nanopower Comparator with Reference	8-SOIC	3.00	2.00	1.65
LTC1540CS8#PBF-ND	Nanopower Comparator with Reference* ***NEW!***	8-SOIC	3.00	2.00	1.65
LTC1540IS8-ND	Nanopower Comparator with Reference	8-SOIC	3.50	2.33	1.90
LTC1540IS8#PBF-ND	Nanopower Comparator with Reference* ***NEW!***	8-SOIC	3.50	2.33	1.90
LTC1541CDD-ND	Micropower Op Amp, Comparator and Reference	8-DFN	3.65	2.43	2.10
LTC1542CS8-ND	Micropower Op Amp, Comparator and Reference	8-SOIC	2.40	1.70	1.50
LTC1542CS8#PBF-ND	Micropower Op Amp, Comparator and Reference* ***NEW!***	8-SOIC	2.40	1.70	1.50
LTC1841CS8-ND	Ultra Low Power Dual Comparator with Reference	8-SOIC	2.50	1.66	1.25
LTC1842CS8-ND	Ultra Low Power Dual Comparator with Reference	8-SOIC	2.88	1.91	1.50
LTC1842CS8#PBF-ND	Ultra Low Power Dual Comparator with Reference* ***NEW!***	8-SOIC	2.88	1.91	1.50
LTC1843CS8-ND	Ultra Low Power Dual Comparator with Reference	8-SOIC	2.88	1.91	1.50
LTC1843CS8#PBF-ND	Ultra Low Power Dual Comparator with Reference* ***NEW!***	8-SOIC	2.88	1.91	1.50
LTC1998CS6-ND	Programmable Low Battery Voltage Detector	SOT-23-6	2.13	1.42	1.17
LTC1998CS6#PBF-ND	Programmable Low Battery Voltage Detector* ***NEW!***	SOT-23-6	2.13	1.42	1.17

FILTERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT6600CS8-2.5-ND	Very Low Noise, Diff. Amp with 2.5MHz Low Pass Filter	8-SOIC	5.88	3.91	3.40
LT6600CS8-2.5#PBF-ND	Very Low Noise, Diff. Amp with 2.5MHz Low Pass Filter* ***NEW!***	8-SOIC	5.88	3.91	3.40
LT6600CS8-10-ND	Very Low Noise, Diff. Amp with 10MHz Low Pass Filter	8-SOIC	5.88	3.91	3.40
LT6600CS8-10#PBF-ND	Very Low Noise, Diff. Amp with 10MHz Low Pass Filter* ***NEW!***	8-SOIC	5.88	3.91	3.40
LT6600CS8-20-ND	Very Low Noise, Diff. Amp with 20MHz Low Pass Filter	8-SOIC	5.88	3.91	3.40
LT6600IS8-10-ND	Very Low Noise, Diff. Amp with 10MHz Low Pass Filter	8-SOIC	6.75	4.49	3.90
LT6600IS8-10#PBF-ND	Very Low Noise, Diff. Amp with 10MHz Low Pass Filter* ***NEW!***	8-SOIC	6.75	4.49	3.90
LTC1059CN-ND	Switched-Capacitor Universal Filter Building Block	14-Dip	5.63	3.75	3.25
LTC1059CN#PBF-ND	Switched-Capacitor Universal Filter Building Block* ***NEW!***	14-Dip	5.63	3.75	3.25
LTC1059CS#PBF-ND	Switched-Capacitor Universal Filter Building Block* ***NEW!***	14-SOIC	6.25	4.20	3.40
LTC1060ACN-ND	Dual Switched-Cap Universal Filter Building Block	20-Dip	13.75	9.20	8.00
LTC1060ACN#PBF-ND	Dual Switched-Cap Universal Filter Building Block* ***NEW!***	20-Dip	13.75	9.20	8.00
LTC1060CN-ND	Dual Switched-Cap Universal Filter Building Block	20-Dip	6.88	4.60	3.90
LTC1060CN#PBF-ND	Dual Switched-Cap Universal Filter Building Block* ***NEW!***	20-Dip	6.88	4.60	3.90
LTC1060CSW-ND	Dual Switched-Cap Universal Filter Building Block	20-SOIC	7.50	5.00	4.25
LTC1060CSW#PBF-ND	Dual Switched-Cap Universal Filter Building Block* ***NEW!***	20-SOIC	7.50	5.00	4.25
LTC1061CN-ND	Triple Switched-Cap Universal Filter Building Block	20-Dip	13.75	9.15	7.60
LTC1062CN8-ND	5th Order Lowpass Filter	8-Dip	6.13	4.10	3.30
LTC1062CN8#PBF-ND	5th Order Lowpass Filter* ***NEW!***	8-Dip	6.13	4.10	3.30
LTC1062CSW-ND	5th Order Lowpass Filter	16-SOIC	6.25	4.20	3.55
LTC1062CSW#PBF-ND	5th Order Lowpass Filter* ***NEW!***	16-SOIC	6.25	4.20	3.55
LTC1063CN8-ND	Clock-Tunable 5th Order, Lowpass Butterworth Filter	8-Dip	10.00	6.70	5.75
LTC1063CN8#PBF-ND	Clock-Tunable 5th Order, Lowpass Butterworth Filter* ***NEW!***	8-Dip	10.00	6.70	5.75
LTC1063CSW-ND	Clock-Tunable 5th Order, Lowpass Butterworth Filter	16-SOIC	10.75	7.20	6.15
LTC1063CSW#PBF-ND	Clock-Tunable 5th Order, Lowpass Butterworth Filter* ***NEW!***	16-SOIC	10.75	7.20	6.15
LTC1064-1CN-ND	8th Order, Clock Sweepable Elliptic Lowpass Filter	14-Dip	22.50	15.00	12.90
LTC1064-1CN#PBF-ND	8th Order, Clock Sweepable Elliptic Lowpass Filter* ***NEW!***	14-Dip	22.50	15.00	12.90
LTC1064-2CN-ND	8th Order, High Frequency Butterworth Lowpass Filter	14-Dip	20.00	13.35	11.25
LTC1064-2CN#PBF-ND	8th Order, High Freq. Butterworth Lowpass Filter* ***NEW!***	14-Dip	20.00	13.35	11.25
LTC1064-2CSW-ND	8th Order, High Frequency Butterworth Lowpass Filter	16-SOIC	27.50	18.35	15.50
LTC1064-2CSW#PBF-ND	8th Order, High Frequency Butterworth Lowpass Filter* ***NEW!***	16-SOIC	27.50	18.35	15.50
LTC1064-3CN-ND	8th Order, High Frequency Linear Phase Lowpass Filter	14-Dip	17.50	11.70	9.95
LTC1064-3CSW-ND	8th Order, High Frequency Linear Phase Lowpass Filter	16-SOIC	20.00	13.35	11.30
LTC1064-3CSW#PBF-ND	8th Order, High Freq. Linear Phase Lowpass Filter* ***NEW!***	16-SOIC	20.00	13.35	11.30
LTC1064-4CN-ND	8th Order, Clock Sweepable Cauer Lowpass Filter	14-Dip	25.00	16.70	14.20
LTC1064-4CSW-ND	8th Order, Clock Sweepable Cauer Lowpass Filter	16-SOIC	31.25	20.85	17.65
LTC1064-4CSW#PBF-ND	8th Order, Clock Sweepable Cauer Lowpass Filter* ***NEW!***	16-SOIC	31.25	20.85	17.65
LTC1064-7CN-ND	8th Order, Linear Phase Lowpass Filter	14-Dip	20.00	13.35	11.25
LTC1064-7CSW-ND	8th Order, Linear Phase Lowpass Filter	16-SOIC	27.50	18.35	15.50
LTC1064CN-ND	Quad, Universal Filter Building Block	24-Dip	15.00	10.00	8.40
LTC1064CN#PBF-ND	Quad, Universal Filter Building Block* ***NEW!***	24-Dip	15.00	10.00	8.40
LTC1064CSW-ND	Quad, Universal Filter Building Block	24-SOIC	18.00	12.00	9.55
LTC1064CSW#PBF-ND	Quad, Universal Filter Building Block* ***NEW!***	24-SOIC	18.00	12.00	9.55
LTC1065CN8-ND	5th Order, Clock-Tunable Bessel Lowpass Filter	8-Dip	10.00	6.70	5.75
LTC1065CN8#PBF-ND	5th Order, Clock-Tunable Bessel Lowpass Filter* ***NEW!***	8-Dip	10.00	6.70	5.75
LTC1065CSW-ND	5th Order, Clock-Tunable Bessel Lowpass Filter	16-SOIC	10.75	7.15	6.15
LTC1065CSW#PBF-ND	5th Order, Clock-Tunable Bessel Lowpass Filter* ***NEW!***	16-SOIC	10.75	7.15	6.15
LTC1066-1CSW-ND	8th Order, Clock-Tunable Lowpass Filter	18-SOIC	32.50	21.65	17.50
LTC1066-1CSW#PBF-ND	8th Order, Clock-Tunable Lowpass Filter* ***NEW!***	18-SOIC	32.50	21.65	17.50
LTC1067-50CS-ND	Dual R/R Very Low Noise Universal Filter Building Block	16-SOIC	6.88	4.57	3.60
LTC1067CS-ND	Dual R/R Very Low Noise Universal Filter Building Block	16-SOIC	6.88	4.57	3.60
LTC1067CS#PBF-ND	Dual R/R Very Low Noise Universal Filter Building Block* ***NEW!***	16-SOIC	6.88	4.57	3.60
LTC1068-25CG-ND	Quad Universal Filter Building Block	28-SSOP	12.38	8.22	6.60
LTC1068-50IG-ND	Quad Universal Filter Building Block, Ind. Temp	28-SSOP	13.50	8.97	7.15
LTC1068-50IG#PBF-ND	Quad Universal Filter Building Block, Ind. Temp* ***NEW!***	28-SSOP	13.50	8.97	7.15
LTC1068-200CG-ND	Quad Universal Filter Building Block	28-SSOP	12.38	8.22	6.60
LTC1068-200CG#PBF-ND	Quad Universal Filter Building Block* ***NEW!***	28-SSOP	12.38	8.22	6.60
LTC1068-200IG-ND	Quad Universal Filter Building Block, Ind. Temp	28-SSOP	13.50	8.97	7.15
LTC1068-200IG#PBF-ND	Quad Universal Filter Building Block, Ind. Temp* ***NEW!***	28-SSOP	13.50	8.97	7.15
LTC1068CG-ND	Quad Universal Filter Building Block	28-SSOP	12.38	8.22	6.60
LTC1068CG#PBF-ND	Quad Universal Filter Building Block* ***NEW!***	28-SSOP	12.38	8.22	6.60
LTC1068CN-ND	Quad Universal Filter Building Block	24-Dip	12.00	7.97	6.40
LTC1068CN#PBF-ND	Quad Universal Filter Building Block* ***NEW!***	24-Dip	12.00	7.97	6.40
LTC1068IG-ND	Quad Universal Filter Building Block, Ind. Temp	28-SSOP	13.50	8.97	7.15
LTC1068IG#PBF-ND	Quad Universal Filter Building Block, Ind. Temp* ***NEW!***	28-SSOP	13.50	8.97	7.15
LTC1068IN-ND	Quad Universal Filter Building Block, Ind. Temp	24-Dip	13.13	8.72	6.95
LTC1068IN#PBF-ND	Quad Universal Filter Building Block, Ind. Temp* ***NEW!***	24-Dip	13.13	8.72	6.95
LTC1069-1IS8-ND	8th Order Progressive Elliptic, Lowpass Filter	8-SOIC	10.25	6.81	5.45
LTC1069-1IS8#PBF-ND	8th Order Progressive Elliptic, Lowpass Filter* ***NEW!***	8-SOIC	10.25	6.81	5.45
LTC1069-6CS8-ND	8th Order Single Supply, Elliptic Lowpass Filter	8-SOIC	9.38	6.25	5.00
LTC1069-6CS8#PBF-ND	8th Order Single Supply, Elliptic Lowpass Filter* ***NEW!***	8-SOIC	9.38	6.25	5.00
LTC1069-7CS8-ND	8th Order Linear Phase Lowpass Filter	8-SOIC	9.38	6.23	5.00
LTC1069-7CS8#PBF-ND	8th Order Linear Phase Lowpass Filter* ***NEW!***	8-SOIC	9.38	6.23	5.00
LTC1164-5CN-ND	8th Order, Low Power, Lowpass Filter	14-Dip	20.00	13.35	11.25
LTC1164-5CSW-ND	8th Order, Low Power, Lowpass Filter	16-SOIC	27.50	18.35	15.50
LTC1164-6CN-ND	8th Order, Low Power, Lowpass Filter	14-Dip	22.50	15.00	12.90
LTC1164-7CN-ND	8th Order, Low Power, Lowpass Filter, Linear Phase	14-Dip	20.00	13.35	11.25
LTC1164-7CSW-ND	8th Order, Low Power, Lowpass Filter, Linear Phase	16-SOIC	27.50	18.35	15.50
LTC1164-7CSW#PBF-ND	8th Order, LP, Lowpass Filter, Linear Phase* ***NEW!***	16-SOIC	27.50	18.35	15.50
LTC1164CN-ND	Quad Universal Filter Building Block	24-Dip	15.00	10.00	8.40
LTC1164CN#PBF-ND	Quad Universal Filter Building Block* ***NEW!***	24-Dip	15.00	10.00	8.40
LTC1164CSW-ND	Quad Universal Filter Building Block	24-SOIC	18.00	12.00	9.55
LTC1164CSW#PBF-ND	Quad Universal Filter Building Block* ***NEW!***	24-SOIC	18.00	12.00	9.55
LTC1264-7CN-ND	8th Order Phase Corrected Lowpass Filter	14-Dip	25.00	16.65	14.20
LTC1264CN-ND	High Speed Quad Universal Filter Building Block	24-Dip	17.50	11.70	9.80
LTC1264CSW-ND	High Speed Quad Universal Filter Building Block	24-SOIC	20.50	13.70	10.90
LTC1560-1CS8-ND	5th Order, Continuous Time, Low Pass Elliptic Filter	8-SOIC	9.13	6.06	4.85
LTC1560-1CS8#PBF-ND	5th Order, Continuous Time, Low Pass Elliptic Filter* ***NEW!***	8-SOIC	9.13	6.06	4.85
LTC1560-1IS8-ND	5th Order, Continuous Time, Low Pass Elliptic Filter	8-SOIC	10.25	6.81	5.45
LTC1562ACG-ND	Low Distortion Active RC Quad Universal Filter	20-SSOP	25.00	16.60	12.50
LTC1562CG-ND	Low Distortion Active RC Quad Universal Filter	20-SSOP	19.13	12.70	9.57
LTC1562CG#PBF-ND	Low Distortion Active RC Quad Universal Filter* ***NEW!***	20-SSOP	19.13	12.70	9.57
LTC1562CG-2-ND	2V, Low Distortion Active RC Quad Universal Filter	20-SSOP	19.13	12.70	9.57
LTC1562CG-2#PBF-ND	2V, Low Distortion Active RC Quad Universal Filter* ***NEW!***	20-SSOP	19.13	12.70	9.57
LTC1563-2CGN-ND	Active RC, 4th Order Lowpass Filter Family	16-SSOP	4.13	2.74	2.10
LTC1563-2CGN#PBF-ND	Active RC, 4th Order Lowpass Filter Family* ***NEW!***	16-SSOP	4.13	2.74	2.10
LTC1564CG-ND	10-150KHz Digitally Controlled Antialiasing Filter and 4-Bit Programmable Gain Amp	16-SSOP	19.00	12.62	9.50
LTC1564CG#PBF-ND	10-150KHz Digitally Controlled Antialiasing Filter and 4-Bit Programmable Gain Amp* ***NEW!***	16-SSOP	19.00	12.62	9.50
LTC1564IG-ND	10-150KHz Digitally Controlled Antialiasing Filter and 4-Bit Programmable Gain Amp	16-SSOP	21.88	14.53	10.94
LTC1564IG#PBF-ND	10-150KHz Digitally Controlled Antialiasing Filter and 4-Bit Programmable Gain Amp* ***NEW!***	16-SSOP	21.88	14.53	10.94
LTC1565-31CS8-ND	650KHz, 7th Order, Continuous Time Low Pass Filter	8-SOIC	8.00	5.32	4.00
LTC1565-31CS8#PBF-ND	650KHz, 7th Order, Continuous Time Low Pass Filter* ***NEW!***	8-SOIC	8.00	5.32	4.00
LTC1565-31IS8-ND	650KHz, 7th Order, Continuous Time Low Pass Filter	8-SOIC	9.25	6.15	4.63
LTC1565-31IS8#PBF-ND	650KHz, 7th Order, Continuous Time Low Pass Filter* ***NEW!***	8-SOIC	9.25	6.15	4.63
LTC1569CS8-6-ND	10th Order Linear Phase Low Pass Filter	8-SOIC	11.50	7.64	5.90
LTC1569CS8-6#PBF-ND	10th Order Linear Phase Low Pass Filter* ***NEW!***	8-SOIC	11.50	7.64	5.90
LTC1569CS8-7-ND	10th Order Linear Phase Low Pass Filter	8-SOIC	12.25	8.14	6.30
LTC1569CS8-7#PBF-ND	10th Order Linear Phase Low Pass Filter* ***NEW!***	8-SOIC	12.25	8.14	6.30
LTC1569IS8-7-ND	10th Order Linear Phase, DC Accurate, Tunable, Low Pass Filter	8-SOIC	13.50	8.97	7.00

POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
	Regulators				
LT317AT-ND	Adjustable Positive Voltage Regulator	TO-220	3.75	2.50	2.15
LT317AT#PBF-ND	Adjustable Positive Voltage Regulator* ***NEW!***	TO-220	3.75	2.50	2.15
LT323AT-ND	5V, 3A Voltage Regulator	TO-220	4.00	2.67	2.50
LT337AT-ND	Adjustable Negative Voltage Regulator	TO-220	3.75	2.50	2.15
LT1020CN-ND	Micropower Voltage Regulator/Comparator, 2.5V Ref.	14-Dip	6.88	4.58	3.90
LT1020CN#PBF-ND	Micropower Voltage Regulator/Comparator, 2.5V Ref* ***NEW!***	14-Dip	6.88	4.58	3.90
LT1020CSW-ND	Micropower Voltage Regulator/Comparator, 2.5V Ref*.	16-SOIC	7.50	5.00	4.25
LT1020CSW#PBF-ND	Micropower Voltage Regulator/Comparator, 2.5V Ref.* ***NEW!***	16-SOIC	7.50	5.00	4.25

* ***RoHS Compliant***

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1033CT-ND	Adj. Negative Voltage Regulator, 3A, 1% Tolerance	TO-220	5.25	3.50	2.95
LT1033CT#PBF-ND	Adj. Negative Voltage Regulator, 3A, 1% Tolerance* ***NEW!***	TO-220	5.25	3.50	2.95
LT1070CT-ND	5A High Power Switching Regulator	TO-220-5	10.63	7.08	5.65
LT1070CT#PBF-ND	5A High Power Switching Regulator* ***NEW!***	TO-220-5	10.63	7.08	5.65
LT1070HVCT-ND	5A High Power Switching Regulator	TO-220-5	13.75	9.17	7.35
LT1070HVCT#PBF-ND	5A High Power Switching Regulator* ***NEW!***	TO-220-5	13.75	9.17	7.35
LT1071CT-ND	2.5A High Power Switching Regulator	TO-220-5	8.63	5.75	4.75
LT1071CT#PBF-ND	2.5A High Power Switching Regulator* ***NEW!***	TO-220-5	8.63	5.75	4.75
LT1071HVCT-ND	2.5A High Power Switching Regulator	TO-220-5	11.25	7.50	6.20
LT1071HVCT#PBF-ND	2.5A High Power Switching Regulator* ***NEW!***	TO-220-5	11.25	7.50	6.20
LT1072CN8-ND	1.25A High Efficiency Switching Regulator	8-Dip	4.38	2.92	2.45
LT1072CN8#PBF-ND	1.25A High Efficiency Switching Regulator* ***NEW!***	8-Dip	4.38	2.92	2.45
LT1072CS8-ND	1.25A High Efficiency Switching Regulator	8-SOIC	5.38	3.58	3.00
LT1072CS8#PBF-ND	1.25A High Efficiency Switching Regulator* ***NEW!***	8-SOIC	5.38	3.58	3.00
LT1072CT-ND	1.25A High Efficiency Switching Regulator	TO-220-5	5.63	3.75	2.95
LT1072CT#PBF-ND	1.25A High Efficiency Switching Regulator* ***NEW!***	TO-220-5	5.63	3.75	2.95
LT1072HVCT-ND	1.25A High Efficiency Switching Regulator	TO-220-5	7.38	4.92	3.85
LT1072HVCT#PBF-ND	1.25A High Efficiency Switching Regulator* ***NEW!***	TO-220-5	7.38	4.92	3.85
LT1072IN8-ND	1.25A High Efficiency Switching Regulator	8-Dip	6.13	4.08	3.45
LT1073CN8-ND	Adjustable DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1073CN8#PBF-ND	Adjustable DC/DC Converter* ***NEW!***	8-Dip	5.50	3.67	3.15
LT1073CN8-5-ND	5V Fixed DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1073CN8-12-ND	12V Fixed DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1073CS8-ND	Adjustable DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1073CS8#PBF-ND	Adjustable DC/DC Converter* ***NEW!***	8-SOIC	6.38	4.25	3.60
LT1073CS8-5-ND	5V Fixed DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1073CS8-5#PBF-ND	5V Fixed DC/DC Converter* ***NEW!***	8-SOIC	6.38	4.25	3.60
LT1074CT-ND	5A Step Down Switching Regulator	TO-220-5	9.25	6.17	5.25
LT1074CT#PBF-ND	5A Step Down Switching Regulator*	TO-220-5	9.25	6.17	5.25
LT1074CT7-ND	5A Step Down Switching Regulator	TO-220-7	10.75	7.17	6.10
LT1074CT7#PBF-ND	5A Step Down Switching Regulator* ***NEW!***	TO-220-7	10.75	7.17	6.10
LT1074HVCT-ND	5A Step Down Switching Regulator	TO-220-5	13.88	9.25	7.90
LT1074HVCT#PBF-ND	5A Step Down Switching Regulator* ***NEW!***	TO-220-5	13.88	9.25	7.90
LT1074HVCT7-ND	5A Step Down Switching Regulator	TO-220-7	15.38	10.25	8.75
LT1074HVCT7#PBF-ND	5A Step Down Switching Regulator* ***NEW!***	TO-220-7	15.38	10.25	8.75
LT1074HVIT-ND	5A Step Down Switching Regulator, Ind. Temp.	TO-220-5	18.75	12.50	10.65
LT1074HVIT#PBF-ND	5A Step Down Switching Regulator, Ind. Temp.* ***NEW!***	TO-220-5	18.75	12.50	10.65
LT1074HVIT7-ND	5A Step Down Switching Regulator, Ind. Temp.	TO-220-7	20.25	13.50	11.20
LT1074HVIT7#PBF-ND	5A Step Down Switching Regulator, Ind. Temp.* ***NEW!***	TO-220-7	20.25	13.50	11.20
LT1074IT-ND	5A Step Down Switching Regulator, Ind. Temp.	TO-220-5	12.50	8.33	7.10
LT1074IT#PBF-ND	5A Step Down Switching Regulator, Ind. Temp.* ***NEW!***	TO-220-5	12.50	8.33	7.10
LT1074IT7-ND	5A Step Down Switching Regulator, Ind. Temp.	TO-220-7	13.75	9.15	7.65
LT1074IT7#PBF-ND	5A Step Down Switching Regulator, Ind. Temp.* ***NEW!***	TO-220-7	13.75	9.15	7.65
LT1076CQ-ND	2A Step Down Switching Regulator	5-DD	7.50	5.00	4.00
LT1076CQ#PBF-ND	2A Step Down Switching Regulator* ***NEW!***	5-DD	7.50	5.00	4.00
LT1076CQ-5-ND	2A Step Down Switching Regulator	5-DD	7.50	5.00	4.00
LT1076CQ-5#PBF-ND	2A Step Down Switching Regulator* ***NEW!***	5-DD	7.50	5.00	4.00
LT1076CR-ND	2A Step Down Switching Regulator	7-DD	8.13	5.42	4.35
LT1076CR#PBF-ND	2A Step Down Switching Regulator* ***NEW!***	7-DD	8.13	5.42	4.35
LT1076CR-5-ND	2A Step Down Switching Regulator	7-DD	8.13	5.42	4.35
LT1076CR-5#PBF-ND	2A Step Down Switching Regulator* ***NEW!***	7-DD	8.13	5.42	4.35
LT1076CT-ND	2A Step Down Switching Regulator	TO-220-5	6.50	4.33	3.50
LT1076CT#PBF-ND	2A Step Down Switching Regulator* ***NEW!***	TO-220-5	6.50	4.33	3.50
LT1076CT-5-ND	2A Step Down Switching Regulator	TO-220-5	6.50	4.33	3.50
LT1076CT-5#PBF-ND	2A Step Down Switching Regulator* ***NEW!***	TO-220-5	6.50	4.33	3.50
LT1076CT7-ND	2A Step Down Switching Regulator	TO-220-7	7.50	5.00	4.00
LT1076CT7#PBF-ND	2A Step Down Switching Regulator* ***NEW!***	TO-220-7	7.50	5.00	4.00
LT1076HVCR-ND	2A Step Down Switching Regulator	7-DD	14.13	9.42	7.65
LT1076HVCR#PBF-ND	2A Step Down Switching Regulator* ***NEW!***	7-DD	14.13	9.42	7.65
LT1076HVCT-ND	2A Step Down Switching Regulator	TO-220-5	11.38	7.58	6.05
LT1076HVCT#PBF-ND	2A Step Down Switching Regulator* ***NEW!***	TO-220-5	11.38	7.58	6.05
LT1076HVCT-5-ND	2A Step Down 5V Switching Regulator	TO-220-5	11.38	7.58	6.05
LT1076HVCT-5#PBF-ND	2A Step Down 5V Switching Regulator* ***NEW!***	TO-220-5	11.38	7.58	6.05
LT1076HVIT-ND	2A Step Down Switching Regulator	TO-220-5	13.38	8.92	7.65
LT1076HVIT#PBF-ND	2A Step Down Switching Regulator* ***NEW!***	TO-220-5	13.38	8.92	7.65
LT1076HVIT-5-ND	2A Step Down 5V Switching Regulator	TO-220-5	13.38	9.55	7.87
LT1076IT-ND	2A Step Down Switching Regulator	TO-220-5	8.88	5.92	5.05
LT1076IT#PBF-ND	2A Step Down Switching Regulator* ***NEW!***	TO-220-5	8.88	5.92	5.05
LT1076IT-5-ND	2A Step Down 5V Switching Regulator	TO-220-5	8.88	5.92	5.50
LT1082CN8-ND	1A High Voltage, High Efficiency Switching Regulator	8-Dip	8.13	5.42	4.60
LT1082CN8#PBF-ND	1A High Voltage, High Efficiency Switching Regulator* ***NEW!***	8-Dip	8.13	5.42	4.60
LT1082CT-ND	1A High Voltage, High Efficiency Switching Regulator	TO-220-5	9.38	6.25	5.35
LT1082CT#PBF-ND	1A High Voltage, High Efficiency Switching Reg.* ***NEW!***	TO-220-5	9.38	6.25	5.35
LT1082IQ-ND	1A High Volage, High Efficiency Switching Regulator	5-DD	11.63	7.75	6.65
LT1082IQ#PBF-ND	1A High Volage, High Efficiency Switching Regulator* ***NEW!***	5-DD	11.63	7.75	6.65
LT1082IT-ND	1A High Voltage, High Efficiency Switching Regulator	TO-220-5	10.88	7.25	6.20
LT1082IT#PBF-ND	1A High Voltage, High Efficiency Switching Reg.* ***NEW!***	TO-220-5	10.88	7.25	6.20
LT1083CP-ND	Adjustable 7.5A LDO Voltage Regulator	TO-3P	13.25	8.83	7.70
LT1083CP#PBF-ND	Adjustable 7.5A LDO Voltage Regulator* ***NEW!***	TO-3P	13.25	8.83	7.70
LT1083CP-5-ND	Fixed 5V, 7.5A LDO Voltage Regulator	TO-3P	13.25	8.83	7.70
LT1083CP-5#PBF-ND	Fixed 5V, 7.5A LDO Voltage Regulator* ***NEW!***	TO-3P	13.25	8.83	7.70
LT1083CP-12-ND	Fixed 12V, 7.5A LDO Voltage Regulator	TO-3P	13.25	8.83	7.70
LT1083CP-12#PBF-ND	Fixed 12V, 7.5A LDO Voltage Regulator* ***NEW!***	TO-3P	13.25	8.83	7.70
LT1084CP-ND	Adjustable 5A LDO Voltage Regulator	TO-3P	8.88	5.90	5.00
LT1084CP#PBF-ND	Adjustable 5A LDO Voltage Regulator* ***NEW!***	TO-3P	8.88	5.90	5.00
LT1084CP-5-ND	Fixed 5V, 5A LDO Voltage Regulator	TO-3P	8.88	5.90	5.00
LT1084CP-5#PBF-ND	Fixed 5V, 5A LDO Voltage Regulator* ***NEW!***	TO-3P	8.88	5.90	5.00
LT1084CP-12-ND	Fixed 12V, 5A LDO Voltage Regulator	TO-3P	8.88	5.90	5.00
LT1084CP-12#PBF-ND	Fixed 12V, 5A LDO Voltage Regulator* ***NEW!***	TO-3P	8.88	5.90	5.00
LT1084CT-ND	Adjustable 5A LDO Voltage Regulator	TO-220	7.75	5.20	4.45
LT1084CT#PBF-ND	Adjustable 5A LDO Voltage Regulator* ***NEW!***	TO-220	7.75	5.20	4.45
LT1084CT-3.3-ND	Fixed 3.3V, 5A LDO Voltage Regulator	TO-220	7.75	5.20	4.45
LT1084CT-3.3#PBF-ND	Fixed 3.3V, 5A LDO Voltage Regulator* ***NEW!***	TO-220	7.75	5.20	4.45
LT1084CT-5-ND	Fixed 5V, 5A LDO Voltage Regulator	TO-220	7.75	5.20	4.45
LT1084CT-5#PBF-ND	Fixed 5V, 5A LDO Voltage Regulator* ***NEW!***	TO-220	7.75	5.20	4.45
LT1084CT-12-ND	Fixed 12V, 5A LDO Voltage Regulator	TO-220	7.75	5.20	4.45
LT1084CT-12#PBF-ND	Fixed 12V, 5A LDO Voltage Regulator* ***NEW!***	TO-220	7.75	5.20	4.45
LT1084IT-ND	Adjustable 5A LDO Voltage Regulator, Ind. Temp.	TO-220	10.00	6.65	5.70
LT1084IT#PBF-ND	Adjustable 5A LDO Voltage Regulator, Ind. Temp.* ***NEW!***	TO-220	10.00	6.65	5.70
LT1085CM-ND	Adjustable 3A LDO Voltage Regulator	3-DD	7.13	4.75	4.00
LT1085CM#PBF-ND	Adjustable 3A LDO Voltage Regulator* ***NEW!***	3-DD	7.13	4.75	4.00
LT1085CM-3.3-ND	Fixed 3.3V, 3A LDO Voltage Regulator	3-DD	7.13	4.75	4.00

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1085CM-3.3#PBF-ND	Fixed 3.3V, 3A LDO Voltage Regulator* ***NEW!***	3-DD	7.13	4.75	4.00
LT1085CM-3.6-ND	Fixed 3.6V, 3A LDO Voltage Regulator	3-DD	7.13	4.75	4.00
LT1085CT-ND	Adjustable 3A LDO Voltage Regulator	TO-220	6.50	4.35	3.70
LT1085CT#PBF-ND	Adjustable 3A LDO Voltage Regulator* ***NEW!***	TO-220	6.50	4.35	3.70
LT1085CT-3.3-ND	Fixed 3.3V, 3A LDO Voltage Regulator	TO-220	6.50	4.35	3.70
LT1085CT-3.3#PBF-ND	Fixed 3.3V, 3A LDO Voltage Regulator* ***NEW!***	TO-220	6.50	4.35	3.70
LT1085CT-3.6-ND	Fixed 3.6V, 3A LDO Voltage Regulator	TO-220	6.50	4.35	3.70
LT1085CT-5-ND	Fixed 5V, 3A LDO Voltage Regulator	TO-220	6.50	4.35	3.70
LT1085CT-5#PBF-ND	Fixed 5V, 3A LDO Voltage Regulator* ***NEW!***	TO-220	6.50	4.35	3.70
LT1085CT-12-ND	Fixed 12V, 3A LDO Voltage Regulator	TO-220	6.50	4.35	3.70
LT1085CT-12#PBF-ND	Fixed 12V, 3A LDO Voltage Regulator* ***NEW!***	TO-220	6.50	4.35	3.70
LT1085IM-3.6-ND	Fixed 3.6V, 3A LDO Voltage Regulator	3-DD	10.25	6.81	5.13
LT1086CM-ND	Adjustable 1.5A LDO Voltage Regulator	3-DD	4.00	2.66	2.30
LT1086CM#PBF-ND	Adjustable 1.5A LDO Voltage Regulator* ***NEW!***	3-DD	4.00	2.65	2.30
LT1086CM-3.3-ND	Fixed 3.3V, 1.5A LDO Voltage Regulator	3-DD	4.00	2.66	2.30
LT1086CM-3.3#PBF-ND	Fixed 3.3V, 1.5A LDO Voltage Regulator* ***NEW!***	3-DD	4.00	2.65	2.30
LT1086CT-ND	Adjustable 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086CT#PBF-ND	Adjustable 1.5A LDO Voltage Regulator* ***NEW!***	TO-220	3.75	2.50	2.15
LT1086CT-2.85-ND	Fixed 2.85V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086CT-3.3-ND	Fixed 3.3V,-1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086CT-3.3#PBF-ND	Fixed 3.3V,-1.5A LDO Voltage Regulator* ***NEW!***	TO-220	3.75	2.50	2.15
LT1086CT-3.6-ND	Fixed 3.6V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086CT-5-ND	Fixed 5V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086CT-5#PBF-ND	Fixed 5V, 1.5A LDO Voltage Regulator* ***NEW!***	TO-220	3.75	2.50	2.15
LT1086CT-12-ND	Fixed 12V, 1.5A LDO Voltage Regulator	TO-220	3.75	2.50	2.15
LT1086CT-12#PBF-ND	Fixed 12V, 1.5A LDO Voltage Regulator* ***NEW!***	TO-220	3.75	2.50	2.15
LT1086IM-ND	Adjustable 1.5A LDO Voltage Regulator	3-DD	4.63	3.08	2.55
LT1086IM#PBF-ND	Adjustable 1.5A LDO Voltage Regulator* ***NEW!***	3-DD	4.63	2.95	2.55
LT1105CN-ND	Offline Switching Regulator	14-Dip	7.63	5.08	4.05
LT1105CN#PBF-ND	Offline Switching Regulator* ***NEW!***	14-Dip	7.63	5.08	4.05
LT1105CN8-ND	Offline Switching Regulator	8-Dip	7.13	4.75	3.75
LT1105CN8#PBF-ND	Offline Switching Regulator* ***NEW!***	8-Dip	7.13	4.75	3.75
LT1107CS8-ND	Adjustable Output DC/DC Converter	8-SOIC	4.38	2.91	2.40
LT1107CS8#PBF-ND	Adjustable Output DC/DC Converter* ***NEW!***	8-SOIC	4.38	2.91	2.40
LT1107CS8-5-ND	Fixed 5V Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
LT1107CS8-5#PBF-ND	Fixed 5V Output DC/DC Converter* ***NEW!***	8-SOIC	5.13	3.42	2.90
LT1107IS8-ND	Adjustable Output DC/DC Converter, Ind. Temp	8-SOIC	5.38	3.60	3.10
LT1107IS8#PBF-ND	Adjustable Output DC/DC Converter, Ind. Temp.* ***NEW!***	8-SOIC	5.38	3.60	3.10
LT1108CS8-ND	Micropower Adjustable Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
LT1108CS8#PBF-ND	Micropower Adjustable Output DC/DC Converter* ***NEW!***	8-SOIC	5.13	3.42	2.90
LT1108CS8-5-ND	Micropower Fixed 5V Output DC/DC Converter	8-SOIC	5.13	3.42	2.90
LT1108CS8-5#PBF-ND	Micropower Fixed 5V Output DC/DC Converter* ***NEW!***	8-SOIC	5.13	3.42	2.90
LT1109ACN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.38	2.92	2.45
LT1109ACN8-12#PBF-ND	Fixed 12V Output Micropower DC/DC Converter* ***NEW!***	8-Dip	4.38	2.92	2.45
LT1109ACS8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.38	2.92	2.45
LT1109CS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	4.38	2.92	2.45
LT1109CS8#PBF-ND	Adjustable Output Micropower DC/DC Converter* ***NEW!***	8-SOIC	4.38	2.92	2.45
LT1109CS8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.38	2.92	2.45
LT1109CS8-12#PBF-ND	Fixed 12V Output Micropower DC/DC Converter* ***NEW!***	8-SOIC	4.38	2.92	2.45
LT1110CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	5.50	3.67	3.15
LT1110CN8-12#PBF-ND	Fixed 12V Output Micropower DC/DC Converter* ***NEW!***	8-Dip	5.50	3.67	3.15
LT1110CS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1110CS8#PBF-ND	Adjustable Output Micropower DC/DC Converter* ***NEW!***	8-SOIC	6.38	4.25	3.60
LT1110CS8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1111CN8-ND	Adjustable Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1111CN8#PBF-ND	Adjustable Output Micropower DC/DC Converter* ***NEW!***	8-Dip	4.25	2.83	2.40
LT1111CN8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1111CN8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter* ***NEW!***	8-Dip	4.25	2.83	2.40
LT1111CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1111CS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1111CS8#PBF-ND	Adjustable Output Micropower DC/DC Converter* ***NEW!***	8-SOIC	4.88	3.25	2.80
LT1111CS8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1111CS8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter* ***NEW!***	8-SOIC	4.88	3.25	2.80
LT1111CS8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1111IS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	6.38	4.25	3.60
LT1111IS8#PBF-ND	Adjustable Output Micropower DC/DC Converter* ***NEW!***	8-SOIC	6.38	4.25	3.60
LT1117CM-5-ND	Fixed 5V, 800mA LDO Regulator	3-DD	3.88	2.58	2.20
LT1117CM-5#PBF-ND	Fixed 5V, 800mA LDO Regulator* ***NEW!***	3-DD	3.88	2.58	2.20
LT1117CST-ND	Adjustable, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
LT1117CST#PBF-ND	Adjustable, 800mA LDO Regulator* ***NEW!***	SOT-223	3.63	2.42	1.95
LT1117CST-2.85-ND	Fixed 2.85V, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
LT1117CST-2.85#PBF-ND	Fixed 2.85V, 800mA LDO Regulator* ***NEW!***	SOT-223	3.63	2.42	1.95
LT1117CST-3.3-ND	Fixed 3.3V, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
LT1117CST-3.3#PBF-ND	Fixed 3.3V, 800mA LDO Regulator* ***NEW!***	SOT-223	3.63	2.42	1.95
LT1117CST-5-ND	Fixed 5V, 800mA LDO Regulator	SOT-223	3.63	2.42	1.95
LT1117CST-5#PBF-ND	Fixed 5V, 800mA LDO Regulator* ***NEW!***	SOT-223	3.63	2.42	1.95
LT1118CS8-ND	Adjustable, 800mA LDO Regulator with 400mA Isink	8-SOIC	5.00	3.45	2.95
LT1118CS8#PBF-ND	Adjustable, 800mA LDO Reg. with 400mA Isink* ***NEW!***	8-SOIC	5.00	3.45	2.95
LT1118CS8-2.5-ND	Fixed 2.5V, 800mA LDO Regulator with 400mA Isink	8-SOIC	5.00	3.45	2.95
LT1118CS8-2.5#PBF-ND	Fixed 2.5V, 800mA LDO Reg. with 400mA Isink* ***NEW!***	8-SOIC	5.00	3.45	2.95
LT1118CS8-2.85-ND	Fixed 2.85V, 800mA LDO Regulator with 400mA Isink	8-SOIC	4.63	3.20	2.75
LT1118CST-2.5-ND	Fixed 2.5V, 800mA LDO Regulator with 400mA Isink	SOT-223	4.75	3.16	2.65
LT1118CST-2.5#PBF-ND	Fixed 2.5V, 800mA LDO Reg. with 400mA Isink* ***NEW!***	SOT-223	4.75	3.15	2.65
LT1118CST-2.85-ND	Fixed 2.85V, 800mA LDO Regulator with 400mA Isink	SOT-223	4.38	2.91	2.40
LT1118CST-5-ND	Fixed 5V, 800mA LDO Regulator with 400mA Isink	SOT-223	4.75	3.16	2.65
LT1118CST-5#PBF-ND	Fixed 5V, 800mA LDO Reg. with 400mA Isink* ***NEW!***	SOT-223	4.75	3.15	2.65
LT1120ACN8-ND	Micropower Regulator with Comparator and Shutdown	8-Dip	4.75	3.17	2.60
LT1120ACN8#PBF-ND	Micropower Reg. with Comparator and Shutdown* ***NEW!***	8-Dip	4.75	3.17	2.60
LT1120ACS8-ND	Micropower Regulator with Comparator and Shutdown	8-SOIC	5.50	3.67	3.15
LT1120ACS8#PBF-ND	Micropower Reg. with Comparator and Shutdown* ***NEW!***	8-SOIC	5.50	3.67	3.15
LT1120AIS8-ND	Micropower Regulator with Comparator and Shutdown	8-SOIC	7.13	4.75	4.05
LT1120CN8-ND	Micropower Regulator with Comparator and Shutdown	8-Dip	4.38	2.92	2.40
LT1120CN8#PBF-ND	Micropower Reg. with Comparator and Shutdown* ***NEW!***	8-Dip	4.38	2.92	2.40
LT1120CS8-ND	Micropower Regulator with Comparator and Shutdown	8-SOIC	5.13	3.42	2.80
LT1120CS8#PBF-ND	Micropower Reg. with Comparator and Shutdown* ***NEW!***	8-SOIC	5.13	3.42	2.80
LT1120IN8-ND	Micropower Regulator with Comparator and Shutdown	8-Dip	5.50	3.67	3.15
LT1121ACS8-ND	Adjustable Micropower LDO Regulator with Shutdown	8-SOIC	3.75	2.50	2.00
LT1121ACS8#PBF-ND	Adj. Micropower LDO Regulator with Shutdown* ***NEW!***	8-SOIC	3.75	2.50	2.00
LT1121ACS8-5-ND	5V Micropower LDO Regulator with Shutdown	8-SOIC	3.75	2.50	2.00
LT1121ACS8-5#PBF-ND	5V Micropower LDO Regulator with Shutdown* ***NEW!***	8-SOIC	3.75	2.50	2.00

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1121AHVCS8-ND	Adj. Micropower LDO Regulator with Shutdown	8-SOIC	4.50	2.99	2.40
LT1121AHVCS8#PBF-ND	Adj. Micropower LDO Regulator with Shutdown* ***NEW!***	8-SOIC	4.50	2.99	2.40
LT1121AHVIS8-ND	Adj. Micropower LDO Reg. with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.81
LT1121AHVIS8#PBF-ND	Adj. Micropower LDO Reg. with Shutdown, Ind. Temp.* ***NEW!***	8-SOIC	5.25	3.49	2.81
LT1121AIS8-ND	Adj. Micropower LDO Reg. with Shutdown, Ind. Temp.	8-SOIC	4.38	2.92	2.35
LT1121AIS8#PBF-ND	Adj. Micropower LDO Reg. with Shutdown, Ind. Temp.* ***NEW!***	8-SOIC	4.38	2.92	2.35
LT1121AIS8-5-ND	5V Micropower LDO Reg. with Shutdown, Ind. Temp.	8-SOIC	4.38	2.92	2.35
LT1121AIS8-5#PBF-ND	5V Micropower LDO Reg. with Shutdown, Ind. Temp.* ***NEW!***	8-SOIC	4.38	2.92	2.35
LT1121CN8-ND	Adjustable Micropower LDO Regulator with Shutdown	8-Dip	2.75	1.83	1.55
LT1121CN8#PBF-ND	Adj. Micropower LDO Regulator with Shutdown* ***NEW!***	8-Dip	2.75	1.83	1.55
LT1121CN8-3.3-ND	3.3V, 150mA LDO Regulator with Shutdown	8-Dip	2.75	1.83	1.55
LT1121CN8-3.3#PBF-ND	3.3V, 150mA LDO Regulator with Shutdown* ***NEW!***	8-Dip	2.75	1.83	1.55
LT1121CN8-5-ND	5V, 150mA LDO Regulator with Shutdown	8-Dip	2.75	1.83	1.55
LT1121CN8-5#PBF-ND	5V, 150mA LDO Regulator with Shutdown* ***NEW!***	8-Dip	2.75	1.83	1.55
LT1121CS8-ND	Adjustable LDO Regulator with Shutdown	8-SOIC	3.00	2.00	1.70
LT1121CS8#PBF-ND	Adjustable LDO Regulator with Shutdown* ***NEW!***	8-SOIC	3.00	2.00	1.70
LT1121CS8-3.3-ND	3.3V LDO Regulator with Shutdown	8-SOIC	3.00	2.00	1.70
LT1121CS8-3.3#PBF-ND	3.3V LDO Regulator with Shutdown* ***NEW!***	8-SOIC	3.00	2.00	1.70
LT1121CS8-5-ND	5V LDO Regulator with Shutdown	8-SOIC	3.00	2.00	1.70
LT1121CS8-5#PBF-ND	5V LDO Regulator with Shutdown* ***NEW!***	8-SOIC	3.00	2.00	1.70
LT1121CST-3.3-ND	3.3V LDO Regulator with Shutdown	SOT-223	3.25	2.17	1.75
LT1121CST-3.3#PBF-ND	3.3V LDO Regulator with Shutdown* ***NEW!***	SOT-223	3.25	2.17	1.75
LT1121CST-5-ND	5V LDO Regulator with Shutdown	SOT-223	3.25	2.17	1.75
LT1121CST-5#PBF-ND	5V LDO Regulator with Shutdown* ***NEW!***	SOT-223	3.25	2.17	1.75
LT1121CZ-3.3-ND	3.3V, 150mA LDO Regulator with Shutdown	TO-92	2.38	1.58	1.35
LT1121CZ-3.3#PBF-ND	3.3V, 150mA LDO Regulator with Shutdown* ***NEW!***	TO-92	2.38	1.58	1.35
LT1121CZ-5-ND	5V, 150mA LDO Regulator with Shutdown	TO-92	2.38	1.58	1.35
LT1121CZ-5#PBF-ND	5V, 150mA LDO Regulator with Shutdown* ***NEW!***	TO-92	2.38	1.58	1.35
LT1121IS8-ND	Adjustable LDO Regulator with Shutdown	8-SOIC	3.63	2.42	2.05
LT1121IS8#PBF-ND	Adjustable LDO Regulator with Shutdown* ***NEW!***	8-SOIC	3.63	2.42	2.05
LT1121IS8-3.3-ND	3.3V LDO Regulator with Shutdown	8-SOIC	3.63	2.42	2.05
LT1121IS8-3.3#PBF-ND	3.3V LDO Regulator with Shutdown* ***NEW!***	8-SOIC	3.63	2.42	2.05
LT1121IS8-5-ND	5V LDO Regulator with Shutdown	8-SOIC	3.63	2.42	2.05
LT1121IS8-5#PBF-ND	5V LDO Regulator with Shutdown* ***NEW!***	8-SOIC	3.63	2.42	2.05
LT1121IST-3.3-ND	3.3V LDO Regulator with Shutdown	SOT-223	3.88	2.58	2.10
LT1121IST-3.3#PBF-ND	3.3V LDO Regulator with Shutdown* ***NEW!***	SOT-223	3.88	2.58	2.10
LT1121IST-5-ND	5V LDO Regulator with Shutdown	SOT-223	3.88	2.58	2.10
LT1121IST-5#PBF-ND	5V LDO Regulator with Shutdown* ***NEW!***	SOT-223	3.88	2.58	2.10
LT1121IZ-5-ND	5V LDO Regulator with Shutdown	TO-92	2.88	1.92	1.60
LT1121IZ-5#PBF-ND	5V LDO Regulator with Shutdown* ***NEW!***	TO-92	2.88	1.92	1.60
LT1129CQ-ND	Adjustable, 700mA LDO Regulator with Shutdown	5-DD	4.63	3.08	2.55
LT1129CQ#PBF-ND	Adjustable, 700mA LDO Regulator with Shutdown* ***NEW!***	5-DD	4.63	3.08	2.55
LT1129CQ-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	5-DD	4.63	3.08	2.55
LT1129CQ-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown* ***NEW!***	5-DD	4.63	3.08	2.55
LT1129CQ-5-ND	5V, 700mA LDO Regulator with Shutdown	5-DD	4.63	3.08	2.55
LT1129CQ-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown* ***NEW!***	5-DD	4.63	3.08	2.55
LT1129CS8-ND	Adjustable, 700mA LDO Regulator with Shutdown	8-SOIC	4.75	3.17	2.55
LT1129CS8#PBF-ND	Adjustable, 700mA LDO Regulator with Shutdown* ***NEW!***	8-SOIC	4.75	3.17	2.55
LT1129CS8-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	8-SOIC	4.75	3.17	2.55
LT1129CS8-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown* ***NEW!***	8-SOIC	4.75	3.17	2.55
LT1129CS8-5-ND	5V, 700mA LDO Regulator with Shutdown	8-SOIC	4.75	3.17	2.55
LT1129CS8-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown* ***NEW!***	8-SOIC	4.75	3.17	2.55
LT1129CST-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	SOT-223	4.25	2.83	2.35
LT1129CST-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown* ***NEW!***	SOT-223	4.25	2.83	2.35
LT1129CST-5-ND	5V, 700mA LDO Regulator with Shutdown	SOT-223	4.25	2.83	2.35
LT1129CST-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown* ***NEW!***	SOT-223	4.25	2.83	2.35
LT1129CT-ND	Adjustable, 700mA LDO Regulator with Shutdown	TO-220-5	4.00	2.67	2.25
LT1129CT#PBF-ND	Adj., 700mA LDO Regulator with Shutdown* ***NEW!***	TO-220-5	4.00	2.67	2.25
LT1129CT-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	TO-220-5	4.00	2.67	2.25
LT1129CT-5-ND	5V, 700mA LDO Regulator with Shutdown	TO-220-5	4.00	2.67	2.25
LT1129CT-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown* ***NEW!***	TO-220-5	4.00	2.67	2.25
LT1129IQ-ND	Adjustable, 700mA LDO Regulator with Shutdown	5-DD	5.50	3.67	3.05
LT1129IQ#PBF-ND	Adjustable, 700mA LDO Regulator with Shutdown* ***NEW!***	5-DD	5.50	3.67	3.05
LT1129IQ-5-ND	5V, 700mA LDO Regulator with Shutdown	5-DD	5.50	3.67	3.05
LT1129IQ-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown* ***NEW!***	5-DD	5.50	3.67	3.05
LT1129IS8-ND	Adjustable, 700mA LDO Regulator with Shutdown	8-SOIC	5.63	3.75	3.05
LT1129IS8#PBF-ND	Adjustable, 700mA LDO Regulator with Shutdown* ***NEW!***	8-SOIC	5.63	3.75	3.05
LT1129IS8-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	8-SOIC	5.63	3.75	3.05
LT1129IS8-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown* ***NEW!***	8-SOIC	5.63	3.75	3.05
LT1129IS8-5-ND	5V, 700mA LDO Regulator with Shutdown	8-SOIC	5.63	3.75	3.05
LT1129IS8-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown* ***NEW!***	8-SOIC	5.63	3.75	3.05
LT1129IST-3.3-ND	3.3V, 700mA LDO Regulator with Shutdown	SOT-223	4.75	3.17	2.70
LT1129IST-3.3#PBF-ND	3.3V, 700mA LDO Regulator with Shutdown* ***NEW!***	SOT-223	4.75	3.17	2.70
LT1129IST-5-ND	5V, 700mA LDO Regulator with Shutdown	SOT-223	4.75	3.17	2.70
LT1129IST-5#PBF-ND	5V, 700mA LDO Regulator with Shutdown* ***NEW!***	SOT-223	4.75	3.17	2.70
LT1170CQ-ND	5A, 100KHz High Efficiency Switching Regulator	5-DD	11.38	7.58	6.05
LT1170CQ#PBF-ND	5A, 100KHz High Efficiency Switching Regulator* ***NEW!***	5-DD	11.38	7.58	6.05
LT1170CT-ND	5A, 100KHz High Efficiency Switching Regulator	TO-220-5	10.63	7.08	5.65
LT1170CT#PBF-ND	5A, 100KHz High Efficiency Switching Regulator* ***NEW!***	TO-220-5	10.63	7.08	5.65
LT1170HVCQ-ND	5A, 100KHz, High Voltage, High Efficiency, Switching Reg	5-DD	14.38	9.55	8.25
LT1170HVCQ#PBF-ND	5A, 100KHz, High Voltage, High Efficiency, Switching Regulator* ***NEW!***	5-DD	14.38	9.55	8.25
LT1170HVCQTR-ND	5A, 100KHz, High Voltage, High Efficiency, Switching Reg	5-DD	6225.00/750		
LT1170HVCT-ND	5A, 100KHz, High Voltage, High Efficiency, Switching Reg	TO-220-5	13.75	9.17	7.35
LT1170HVCT#PBF-ND	5A, 100KHz, High Voltage, High Efficiency, Switching Regulator* ***NEW!***	TO-220-5	13.75	9.17	7.35
LT1170IQ-ND	5A, 100KHz High Efficiency Switching Regulator	5-DD	14.25	9.50	8.50
LT1170IQ#PBF-ND	5A, 100KHz High Efficiency Switching Regulator* ***NEW!***	5-DD	14.25	9.50	8.50
LT1171CQ-ND	3A, 100KHz High Efficiency Switching Regulator	5-DD	9.38	6.25	5.20
LT1171CQ#PBF-ND	3A, 100KHz High Efficiency Switching Regulator* ***NEW!***	5-DD	9.38	6.25	5.20
LT1171CT-ND	3A, 100KHz High Efficiency Switching Regulator	TO-220-5	8.63	5.75	4.75
LT1171CT#PBF-ND	3A, 100KHz High Efficiency Switching Regulator* ***NEW!***	TO-220-5	8.63	5.75	4.75
LT1171HVCQ-ND	2.5A, 100KHz, High Volt, High Efficiency Switching Reg	5-DD	11.75	7.81	6.70
LT1171HVCQ#PBF-ND	2.5A, 100KHz, High Volt, High Efficiency Switching Regulator* ***NEW!***	5-DD	11.75	7.81	6.70
LT1171HVCT-ND	2.5A, 100KHz, High Volt, High Efficiency Switching Reg	TO-220-5	11.25	7.50	6.20
LT1171HVCT#PBF-ND	2.5A, 100KHz, High Volt, High Efficiency Switching Regulator* ***NEW!***	TO-220-5	11.25	7.50	6.20

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1171IQ-ND	2.5A, 100KHz High Efficiency Switching Regulator	5-DD	10.25	6.81	5.45
LT1171IQ#PBF-ND	2.5A, 100KHz High Efficiency Switching Regulator* ***NEW!***	5-DD	10.25	6.81	5.45
LT1172CN8-ND	1.25A, 100KHz High Efficiency Switching Regulator	8-Dip	4.38	2.92	2.45
LT1172CN8#PBF-ND	1.25A, 100KHz High Efficiency Switching Regulator* ***NEW!***	8-Dip	4.38	2.92	2.45
LT1172CQ-ND	1.25A, 100KHz High Efficiency Switching Regulator	5-DD	6.38	4.25	3.55
LT1172CQ#PBF-ND	1.25A, 100KHz High Efficiency Switching Regulator* ***NEW!***	5-DD	6.38	4.25	3.55
LT1172CS8-ND	1.25A, 100KHz High Efficiency Switching Regulator	8-SOIC	5.38	3.58	3.00
LT1172CS8#PBF-ND	1.25A, 100KHz High Efficiency Switching Regulator* ***NEW!***	8-SOIC	5.38	3.58	3.00
LT1172CT-ND	1.25A, 100KHz High Efficiency Switching Regulator	TO-220-5	5.63	3.75	2.95
LT1172CT#PBF-ND	1.25A, 100KHz High Efficiency Switching Reg.* ***NEW!***	TO-220-5	5.63	3.75	2.95
LT1172HVCQ-ND	1.25A, 100KHz, High Volt, High Efficiency Switching Reg.	5-DD	9.13	6.52	5.37
LT1172HVCQ#PBF-ND	1.25A, 100KHz, High Volt, High Efficiency Switching Regulator* ***NEW!***	5-DD	9.13	6.52	5.37
LT1172HVCT-ND	1.25A, 100KHz, High Volt, High Efficiency Switching Reg	TO-220-5	7.38	4.92	3.85
LT1172HVCT#PBF-ND	1.25A, 100KHz, High Volt, High Efficiency Switching Regulator* ***NEW!***	TO-220-5	7.38	4.92	3.85
LT1172IN8-ND	1.25A, 100KHz High Efficiency Switching Regulator	8-Dip	6.13	4.08	3.45
LT1172IN8#PBF-ND	1.25A, 100KHz High Efficiency Switching Regulator* ***NEW!***	8-Dip	6.13	4.08	3.45
LT1172IS8-ND	1.25A, 100KHz High Efficiency Switching Regulator	8-SOIC	7.00	4.67	3.90
LT1172IS8#PBF-ND	1.25A, 100KHz High Efficiency Switching Regulator* ***NEW!***	8-SOIC	7.00	4.67	3.90
LT1173CN8-ND	Adjustable Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1173CN8#PBF-ND	Adjustable Output Micropower DC/DC Converter* ***NEW!***	8-Dip	4.25	2.83	2.40
LT1173CN8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1173CN8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter* ***NEW!***	8-Dip	4.25	2.83	2.40
LT1173CN8-12-ND	Fixed 12V Output Micropower DC/DC Converter	8-Dip	4.25	2.83	2.40
LT1173CS8-ND	Adjustable Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1173CS8#PBF-ND	Adjustable Output Micropower DC/DC Converter* ***NEW!***	8-SOIC	4.88	3.25	2.80
LT1173CS8-5-ND	Fixed 5V Output Micropower DC/DC Converter	8-SOIC	4.88	3.25	2.80
LT1173CS8-5#PBF-ND	Fixed 5V Output Micropower DC/DC Converter* ***NEW!***	8-SOIC	4.88	3.25	2.80
LT1175CN8-ND	Adjustable, 500mA Negative LDO Regulator	8-Dip	4.63	3.10	2.55
LT1175CN8#PBF-ND	Adjustable, 500mA Negative LDO Regulator* ***NEW!***	8-Dip	4.63	3.10	2.55
LT1175CN8-5-ND	5V, 500mA Negative LDO Regulator	8-Dip	4.63	3.10	2.55
LT1175CN8-5#PBF-ND	5V, 500mA Negative LDO Regulator* ***NEW!***	8-Dip	4.63	3.10	2.55
LT1175CQ-ND	Adjustable, 500mA Negative LDO Regulator	5-DD	5.88	3.91	3.25
LT1175CQ#PBF-ND	Adjustable, 500mA Negative LDO Regulator* ***NEW!***	5-DD	5.88	3.90	3.25
LT1175CQ-5-ND	5V, 500mA Negative LDO Regulator	5-DD	5.88	3.91	3.25
LT1175CQ-5#PBF-ND	5V, 500mA Negative LDO Regulator* ***NEW!***	5-DD	5.88	3.90	3.25
LT1175CS8-ND	Adjustable, 500mA Negative LDO Regulator	8-SOIC	5.38	3.60	3.00
LT1175CS8#PBF-ND	Adjustable, 500mA Negative LDO Regulator* ***NEW!***	8-SOIC	5.38	3.60	3.00
LT1175CS8-5-ND	5V, 500mA Negative LDO Regulator	8-SOIC	5.38	3.60	3.00
LT1175CS8-5#PBF-ND	5V, 500mA Negative LDO Regulator* ***NEW!***	8-SOIC	5.38	3.60	3.00
LT1175CST-5-ND	5V, 500mA Negative LDO Regulator	SOT-223	4.88	3.25	2.80
LT1175CST-5#PBF-ND	5V, 500mA Negative LDO Regulator* ***NEW!***	SOT-223	4.88	3.25	2.80
LT1175CT-ND	Adjustable, 500mA Negative LDO Regulator	TO-220-5	5.63	3.75	3.15
LT1175CT#PBF-ND	Adjustable, 500mA Negative LDO Regulator* ***NEW!***	TO-220-5	5.63	3.75	3.15
LT1175CT-5-ND	5V, 500mA Negative LDO Regulator	TO-220-5	5.63	3.75	3.15
LT1175CT-5#PBF-ND	5V, 500mA Negative LDO Regulator* ***NEW!***	TO-220-5	5.63	3.75	3.15
LT1175IN8-ND	Adjustable, 500mA Negative LDO Regulator	8-Dip	6.00	4.00	3.35
LT1175IQ-ND	Adjustable, 500mA Negative LDO Regulator	5-DD	7.50	5.00	4.30
LT1175IQ#PBF-ND	Adjustable, 500mA Negative LDO Regulator* ***NEW!***	5-DD	7.50	5.00	4.30
LT1175IQ-5-ND	5V, 500mA Negative LDO Regulator	5-DD	7.50	5.00	4.30
LT1175IQ-5#PBF-ND	5V, 500mA Negative LDO Regulator* ***NEW!***	5-DD	7.50	5.00	4.30
LT1175IST-5-ND	5V, 500mA Negative Low Dropout Regulator	SOT-223	5.38	3.60	3.10
LT1175IST-5#PBF-ND	5V, 500mA Negative Low Dropout Regulator* ***NEW!***	SOT-223	5.38	3.60	3.10
LT1175IS8-ND	Adjustable, 500mA Negative LDO Regulator	8-SOIC	7.00	4.65	3.90
LT1175IS8#PBF-ND	Adjustable, 500mA Negative LDO Regulator* ***NEW!***	8-SOIC	7.00	4.65	3.90
LT1175IS8-5-ND	5V, 500mA Negative LDO Regulator	8-SOIC	7.00	4.65	3.90
LT1175IS8-5#PBF-ND	5V, 500mA Negative LDO Regulator* ***NEW!***	8-SOIC	7.00	4.65	3.90
LT1176CN8-ND	Adjustable, 1A Step Down Switching Regulator	8-Dip	5.63	3.75	3.20
LT1176CN8#PBF-ND	Adjustable, 1A Step Down Switching Regulator* ***NEW!***	8-Dip	5.63	3.75	3.20
LT1176CN8-5-ND	5V, 1A Step Down Switching Regulator	8-Dip	5.63	3.75	3.20
LT1176CN8-5#PBF-ND	5V, 1A Step Down Switching Regulator* ***NEW!***	8-Dip	5.63	3.75	3.20
LT1176CSW-ND	Adjustable, 1A Step Down Switching Regulator	20-SOIC	8.13	5.42	4.35
LT1176CSW#PBF-ND	Adjustable, 1A Step Down Switching Regulator* ***NEW!***	20-SOIC	8.13	5.42	4.35
LT1176CSW-5-ND	5V, 1A Step Down Switching Regulator	20-SOIC	8.13	5.42	4.35
LT1176CSW-5#PBF-ND	5V, 1A Step Down Switching Regulator* ***NEW!***	20-SOIC	8.13	5.42	4.35
LT1185CT-ND	Adjustable, 3A, LDO Voltage Regulator	TO-220-5	6.50	4.33	3.70
LT1185CT#PBF-ND	Adjustable, 3A, LDO Voltage Regulator* ***NEW!***	TO-220-5	6.50	4.33	3.70
LT1185IT-ND	Adjustable, 3A, LDO Voltage Regulator	TO-220-5	8.75	5.83	4.90
LT1185IT#PBF-ND	Adjustable, 3A, LDO Voltage Regulator* ***NEW!***	TO-220-5	8.75	5.83	4.90
LT1268BCQ-ND	7.5A, 150KHz Switching Regulator	5-DD	12.75	8.50	7.25
LT1268CT-ND	7.5A, 150KHz Switching Regulator	TO-220-5	11.38	7.58	6.50
LT1268CT#PBF-ND	7.5A, 150KHz Switching Regulator* ***NEW!***	TO-220-5	11.38	7.58	6.50
LT1269CT-ND	4A, High Efficiency, Power Switching Regulator	TO-220-5	8.88	5.92	4.90
LT1269CT#PBF-ND	4A, High Efficiency, Power Switching Regulator* ***NEW!***	TO-220-5	8.88	5.92	4.90
LT1270ACT-ND	10A, High Efficiency, Power Switching Regulator	TO-220-5	15.75	10.50	8.90
LT1270ACT#PBF-ND	10A, High Efficiency, Power Switching Regulator* ***NEW!***	TO-220-5	15.75	10.50	8.90
LT1270CT-ND	8A, High Efficiency, Power Switching Regulator	TO-220-5	10.63	7.08	5.65
LT1270CT#PBF-ND	8A, High Efficiency, Power Switching Regulator* ***NEW!***	TO-220-5	10.63	7.08	5.65
LT1271CQ-ND	4A, High Efficiency, Power Switching Regulator	5-DD	9.38	6.25	5.20
LT1271CQ#PBF-ND	4A, High Efficiency, Power Switching Regulator* ***NEW!***	5-DD	9.38	6.25	5.20
LT1271CT-ND	4A, High Efficiency, Power Switching Regulator	TO-220-5	8.63	5.75	4.75
LT1271CT#PBF-ND	4A, High Efficiency, Power Switching Regulator* ***NEW!***	TO-220-5	8.63	5.75	4.75
LT1300CN8-ND	3.3V/5V, High Efficiency, Step Up DC/DC Converter	8-Dip	5.00	3.33	2.60
LT1300CN8#PBF-ND	3.3V/5V, High Efficiency, Step Up DC/DC Converter* ***NEW!***	8-Dip	5.00	3.33	2.60
LT1300CS8-ND	3.3V/5V, High Efficiency, Step Up DC/DC Converter	8-SOIC	5.00	3.33	2.60
LT1300CS8#PBF-ND	3.3V/5V, High Efficiency, Step Up DC/DC Converter* ***NEW!***	8-SOIC	5.00	3.33	2.60
LT1301CN8-ND	5V/12V, High Efficiency, Step Up DC/DC Converter	8-Dip	4.75	3.17	2.50
LT1301CS8-ND	5V/12V, High Efficiency, Step Up DC/DC Converter	8-SOIC	4.75	3.17	2.50
LT1301CS8#PBF-ND	5V/12V, High Efficiency, Step Up DC/DC Converter* ***NEW!***	8-SOIC	4.75	3.17	2.50
LT1302CN8-5-ND	5V, High Efficiency, Step Up DC/DC Converter	8-Dip	6.13	4.08	3.35
LT1302CS8-ND	Adjustable, High Efficiency, Step Up DC/DC Converter	8-SOIC	6.38	4.25	3.50
LT1302CS8#PBF-ND	Adj., High Efficiency, Step Up DC/DC Converter* ***NEW!***	8-SOIC	6.38	4.25	3.50
LT1302CS8-5-ND	5V, High Efficiency, Step Up DC/DC Converter	8-SOIC	6.38	4.25	3.50
LT1302CS8-5#PBF-ND	5V, High Efficiency, Step Up DC/DC Converter* ***NEW!***	8-SOIC	6.38	4.25	3.50
LT1303CN8-ND	Adjustable, Step Up DC/DC Converter	8-Dip	4.75	3.16	2.50
LT1303CN8#PBF-ND	Adjustable, Step Up DC/DC Converter* ***NEW!***	8-Dip	4.75	3.15	2.50
LT1303CN8-5-ND	5V, Step Up DC/DC Converter	8-Dip	4.75	3.16	2.50

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1303CN8-5#PBF-ND	5V, Step Up DC/DC Converter* ***NEW!***	8-Dip	4.75	3.15	2.50
LT1303CS8-ND	Adjustable, Step Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1303CS8#PBF-ND	Adjustable, Step Up DC/DC Converter* ***NEW!***	8-SOIC	4.75	3.15	2.50
LT1303CS8-5-ND	5V, Step Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1303CS8-5#PBF-ND	5V, Step Up DC/DC Converter* ***NEW!***	8-SOIC	4.75	3.15	2.50
LT1303IS8-ND	Adjustable, Step Up DC/DC Converter	8-SOIC	6.38	4.25	3.40
LT1304CS8-ND	Adjustable, Step Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1304CS8#PBF-ND	Adjustable, Step Up DC/DC Converter* ***NEW!***	8-SOIC	4.75	3.15	2.50
LT1304CS8-5-ND	5V, Step Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1304CS8-5#PBF-ND	5V, Step Up DC/DC Converter* ***NEW!***	8-SOIC	4.75	3.15	2.50
LT1305CS8-ND	Micropower High Power Step Up DC/DC Converter	8-SOIC	6.38	4.25	3.65
LT1305CS8#PBF-ND	Micropower High Power Step Up DC/DC Converter* ***NEW!***	8-SOIC	6.38	4.25	3.65
LT1307BCS8-ND	Single Micropower 600KHz PWM DC/DC Converter	8-SOIC	4.13	2.75	2.20
LT1307BCS8#PBF-ND	Single Micropower 600KHz PWM DC/DC Converter* ***NEW!***	8-SOIC	4.13	2.75	2.20
LT1307CS8-ND	Single Micropower 600KHz PWM DC/DC Converter	8-SOIC	4.13	2.75	2.20
LT1307CS8#PBF-ND	Single Micropower 600KHz PWM DC/DC Converter* ***NEW!***	8-SOIC	4.13	2.75	2.20
LT1308ACS8-ND	Single High Current, Micropower 600KHz DC/DC Converter	8-SOIC	6.50	4.32	3.50
LT1308ACS8#PBF-ND	Single High Current, Micropower 600KHz DC/DC Converter* ***NEW!***	8-SOIC	6.50	4.32	3.50
LT1308BCS8-ND	Single High Current, Micropower 600KHz DC/DC Converter	8-SOIC	6.50	4.32	3.50
LT1308BCS8#PBF-ND	Single High Current, Micropower 600KHz DC/DC Converter* ***NEW!***	8-SOIC	6.50	4.32	3.50
LT1308CS8-ND	High Current, LP Single Cell 600KHz DC/DC Converter	8-SOIC	6.88	4.57	3.65
LT1308CS8#PBF-ND	High Current, LP Single Cell 600KHz DC/DC Conv.* ***NEW!***	8-SOIC	6.88	4.57	3.65
LT1310EMSE-ND	1.5A Boost DC/DC Converter with PLL	10-MSOP	5.70	3.79	2.91
LT1310EMSE#PBF-ND	1.5A Boost DC/DC Converter with PLL* ***NEW!***	10-MSOP	5.70	3.79	2.91
LT1316CMS8-ND	Micropower Step Up DC/DC Converter	8-MSOP	5.38	3.57	2.95
LT1316CMS8#PBF-ND	Micropower Step Up DC/DC Converter* ***NEW!***	8-MSOP	5.38	3.57	2.95
LT1316CS8-ND	Micropower Step Up DC/DC Converter	8-SOIC	4.75	3.16	2.50
LT1316CS8#PBF-ND	Micropower Step Up DC/DC Converter* ***NEW!***	8-SOIC	4.75	3.16	2.50
LT1316IS8-ND	Micropower Step Up DC/DC Converter	8-SOIC	5.50	3.66	2.90
LT1317BCMS8#PBF-ND	Micropower, 600KHz PWM DC/DC Converter* ***NEW!***	8-MSOP	4.88	3.24	2.55
LT1317BCS8-ND	Micropower, 600KHz PWM DC/DC Converter	8-SOIC	4.38	2.91	2.30
LT1317BCS8#PBF-ND	Micropower, 600KHz PWM DC/DC Converter* ***NEW!***	8-SOIC	4.38	2.91	2.30
LT1317BIS8-ND	Micropower, 600KHz PWM DC/DC Converter	8-SOIC	5.63	3.74	3.00
LT1317BIS8#PBF-ND	Micropower, 600KHz PWM DC/DC Converter* ***NEW!***	8-SOIC	5.63	3.74	3.00
LT1317CMS8-ND	Micropower, 600KHz PWM DC/DC Converter	8-MSOP	4.88	3.24	2.55
LT1317CMS8#PBF-ND	Micropower, 600KHz PWM DC/DC Converter* ***NEW!***	8-MSOP	4.88	3.24	2.55
LT1317CS8-ND	Micropower, 600KHz PWM DC/DC Converter	8-SOIC	4.38	2.91	2.30
LT1317CS8#PBF-ND	Micropower, 600KHz PWM DC/DC Converter* ***NEW!***	8-SOIC	4.38	2.91	2.30
LT1339CN-ND	High Power Synchronous DC/DC Controller	20-Dip	9.13	6.10	5.20
LT1339CN#PBF-ND	High Power Synchronous DC/DC Controller* ***NEW!***	20-Dip	9.13	6.10	5.20
LT1339CSW-ND	High Power Synchronous DC/DC Controller	20-SOIC	9.38	6.25	5.35
LT1339CSW#PBF-ND	High Power Synchronous DC/DC Controller* ***NEW!***	20-SOIC	9.38	6.25	5.35
LT1339IN-ND	High Power Synchronous DC/DC Controller	20-Dip	11.00	7.35	6.30
LT1339ISW-ND	High Power Synchronous DC/DC Controller	20-SOIC	11.25	7.50	6.45
LT1339ISW#PBF-ND	High Power Synchronous DC/DC Controller* ***NEW!***	20-SOIC	11.25	7.50	6.45
LT1370CT7-ND	500KHz, High Efficiency, 6A Switching Regulator	TO-220-7	11.63	7.72	6.25
LT1370CT7#PBF-ND	500KHz, High Efficiency, 6A Switching Regulator* ***NEW!***	TO-220-7	11.63	7.72	6.25
LT1370HVCR-ND	500KHz, High Efficiency, 6A Switching Regulator	7-DD	13.50	8.97	7.25
LT1370HVCR#PBF-ND	500KHz, High Efficiency, 6A Switching Regulator* ***NEW!***	7-DD	13.50	8.97	7.25
LT1370HVCT7-ND	500KHz, High Efficiency, 6A Switching Regulator	TO-220-7	13.25	8.80	7.10
LT1370HVCT7#PBF-ND	500KHz, High Efficiency, 6A Switching Regulator* ***NEW!***	TO-220-7	13.25	8.80	7.10
LT1370HVIR-ND	500KHz, High Efficiency, 6A Switching Regulator	7-DD	16.13	10.71	8.65
LT1370HVIR#PBF-ND	500KHz, High Efficiency, 6A Switching Regulator* ***NEW!***	7-DD	16.13	10.71	8.65
LT1370IR-ND	500KHz, High Efficiency, 6A Switching Regulator, Ind. Temp.	7-DD	14.25	9.47	7.65
LT1370IR#PBF-ND	500KHz, High Efficiency, 6A Switching Regulator, Ind. Temp.* ***NEW!***	7-DD	14.25	9.47	7.65
LT1371CR-ND	500KHz, High Efficiency, 3A Switching Regulator	7-DD	9.63	6.40	5.50
LT1371CR#PBF-ND	500KHz, High Efficiency, 3A Switching Regulator* ***NEW!***	7-DD	9.63	6.40	5.50
LT1371CSW-ND	500KHz, High Efficiency, 3A Switching Regulator	20-SOIC	10.63	7.10	6.10
LT1371HVCR-ND	500KHz, High Efficiency, 3A Switching Regulator	7-DD	10.25	6.85	5.85
LT1371HVCR#PBF-ND	500KHz, High Efficiency, 3A Switching Regulator* ***NEW!***	7-DD	10.25	6.85	5.85
LT1371IR-ND	500KHz, High Efficiency, 3A Switching Regulator, Ind. Temp.	7-DD	11.50	7.64	6.55
LT1371IR#PBF-ND	500KHz, High Efficiency, 3A Switching Regulator, Ind. Temp.* ***NEW!***	7-DD	11.50	7.64	6.55
LT1372CN8-ND	500KHz, High Efficiency, 1.5A Switching Regulator	8-Dip	6.50	4.32	3.70
LT1372CN8#PBF-ND	500KHz, High Efficiency, 1.5A Switching Regulator* ***NEW!***	8-Dip	6.50	4.32	3.70
LT1372CS8-ND	500KHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1372CS8#PBF-ND	500KHz, High Efficiency, 1.5A Switching Regulator* ***NEW!***	8-SOIC	6.75	4.50	3.85
LT1372HVCS8-ND	500KHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	7.38	4.90	4.20
LT1372HVCS8#PBF-ND	500KHz, High Efficiency, 1.5A Switching Regulator* ***NEW!***	8-SOIC	7.38	4.90	4.20
LT1372IS8-ND	500KHz, High Effic., 1.5A Switching Regulator, Ind. Temp.	8-SOIC	8.13	5.40	4.65
LT1372IS8#PBF-ND	500KHz, High Effic., 1.5A Switching Regulator, Ind. Temp.* ***NEW!***	8-SOIC	8.13	5.40	4.65
LT1373CN8-ND	250KHz, High Efficiency, 1.5A Switching Regulator	8-Dip	6.50	4.32	3.70
LT1373CN8#PBF-ND	250KHz, High Efficiency, 1.5A Switching Regulator* ***NEW!***	8-Dip	6.50	4.32	3.70
LT1373CS8-ND	250KHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1373CS8#PBF-ND	250KHz, High Efficiency, 1.5A Switching Regulator* ***NEW!***	8-SOIC	6.75	4.50	3.85
LT1373HVCS8-ND	250KHz, High Efficiency, 1.5A Switching Regulator	8-SOIC	7.38	4.90	4.20
LT1373HVCS8#PBF-ND	250KHz, High Efficiency, 1.5A Switching Regulator* ***NEW!***	8-SOIC	7.38	4.90	4.20
LT1373IS8-ND	250KHz, High Effic., 1.5A Switching Regulator, Ind. Temp.	8-SOIC	8.13	5.40	4.65
LT1373IS8#PBF-ND	250KHz, High Effic., 1.5A Switching Regulator, Ind. Temp.* ***NEW!***	8-SOIC	8.13	5.40	4.65
LT1374CFE-ND	Adj., 500KHz, 4.5A, Step Down Switch. Regulator	16-TSSOP	9.10	6.05	4.64
LT1374CFE#PBF-ND	Adj., 500KHz, 4.5A, Step Down Switch. Reg.* ***NEW!***	16-TSSOP	9.10	6.05	4.64
LT1374CR-ND	Adj., 500KHz, 4.5A, Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1374CR#PBF-ND	Adj., 500KHz, 4.5A, Step Down Switching Regulator* ***NEW!***	7-DD	10.00	6.64	5.00
LT1374CR-5-ND	5V, 500KHz, 4.5A, Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1374CR-5#PBF-ND	5V, 500KHz, 4.5A, Step Down Switching Regulator* ***NEW!***	7-DD	10.00	6.64	5.00
LT1374CS8-ND	Adj., 500KHz, 4.5A, Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1374CS8#PBF-ND	Adj., 500KHz, 4.5A, Step Down Switching Reg.* ***NEW!***	8-SOIC	9.38	6.23	4.70
LT1374CS8-5-ND	5V, 500KHz, 4.5A, Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1374CS8-5#PBF-ND	5V, 500KHz, 4.5A, Step Down Switching Regulator* ***NEW!***	8-SOIC	9.38	6.23	4.70
LT1374CS8-5SYNC-ND	5V, 500KHz, 4.5A, Sync. Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1374CT7-ND	Adj., 500KHz, 4.5A, Step Down Switching Regulator	TO-220-7	9.75	6.48	4.90
LT1374CT7#PBF-ND	Adj., 500KHz, 4.5A, Step Down Switching Reg.* ***NEW!***	TO-220-7	9.75	6.48	4.90
LT1374CT7-5-ND	5V, 500KHz, 4.5A, Step Down Switching Regulator	TO-220-7	9.75	6.48	4.90
LT1374CT7-5#PBF-ND	5V, 500KHz, 4.5A, Step Down Switching Reg.* ***NEW!***	TO-220-7	9.75	6.48	4.90
LT1374HVCFE-ND	Adj., 500KHz, 4.5A, Step Down Switching Regulator	16-TSSOP	10.00	6.64	5.00
LT1374HVCFE#PBF-ND	Adj., 500KHz, 4.5A, Step Down Switching Reg.* ***NEW!***	16-TSSOP	10.00	6.64	5.10
LT1374HVCS8-ND	Adj., 500KHz, 4.5A, Step Down Switching Regulator	8-SOIC	10.38	6.89	5.20
LT1374HVCS8#PBF-ND	Adj., 500KHz, 4.5A, Step Down Switching Reg.* ***NEW!***	8-SOIC	10.38	6.89	5.20
LT1374IR-ND	Adj., 500KHz, 4.5A, Step Down Switching Regulator	7-DD	11.50	7.64	5.75

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1374IR#PBF-ND	Adj., 500KHz, 4.5A, Step Down Switching Regulator* ***NEW!***	7-DD	11.50	7.64	5.75
LT1374IR-5-ND	5V, 500KHz, 4.5A, Step Down Switching Regulator	7-DD	11.50	7.64	5.75
LT1374IR-5#PBF-ND	5V, 500KHz, 4.5A, Step Down Switching Regulator* ***NEW!***	7-DD	11.50	7.64	5.75
LT1374IS8-5SYNC-ND	5V, 500KHz, 4.5A, Sync. Step Down Switching Regulator	8-SOIC	10.75	7.14	5.40
LT1374IT7-5-ND	5V, 500KHz, 4.5A Step Down Switching Regulator	TO-220-7	11.25	7.47	5.65
LT1375CS8-ND	Adj., 500KHz, 1.5A, Step Down Switching Regulator	8-SOIC	6.50	4.32	3.40
LT1375CS8#PBF-ND	Adj., 500KHz, 1.5A, Step Down Switching Reg.* ***NEW!***	8-SOIC	6.50	4.32	3.40
LT1375CS8-5-ND	5V, 500KHz, 1.5A Step Down Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1375CS8-5#PBF-ND	5V, 500KHz, 1.5A Step Down Switching Regulator* ***NEW!***	8-SOIC	6.75	4.50	3.85
LT1375IS8-ND	Adj., 500KHz, 1.5A Step Down, Switching Regulator, Ind. Temp.	8-SOIC	7.75	5.15	4.10
LT1375IS8#PBF-ND	Adj., 500KHz, 1.5A Step Down, Switching Regulator, Ind. Temp.* ***NEW!***	8-SOIC	7.75	5.15	4.10
LT1376CN8-ND	Adj., 500KHz, 1.5A Step Down Switching Regulator	8-Dip	6.50	4.35	3.70
LT1376CN8#PBF-ND	Adj., 500KHz, 1.5A Step Down Switching Regulator* ***NEW!***	8-Dip	6.50	4.35	3.70
LT1376CN8-5-ND	5V, 500KHz, 1.5A, Step Down Switching Regulator	8-Dip	6.50	4.35	3.70
LT1376CN8-5#PBF-ND	5V, 500KHz, 1.5A, Step Down Switching Regulator* ***NEW!***	8-Dip	6.50	4.35	3.70
LT1376CS-ND	Adj., 500KHz, 1.5A, Step Down Switching Regulator	16-SOIC	7.38	4.90	3.90
LT1376CS#PBF-ND	Adj., 500KHz, 1.5A, Step Down Switching Reg.* ***NEW!***	16-SOIC	7.38	4.90	3.90
LT1376CS8-ND	Adj., 500KHz, 1.5A, Step Down Switching Regulator	8-SOIC	6.50	4.32	3.40
LT1376CS8#PBF-ND	Adj., 500KHz, 1.5A, Step Down Switching Reg.* ***NEW!***	8-SOIC	6.50	4.32	3.40
LT1376CS8-5-ND	5V, 500KHz, 1.5A, Step Down Switching Regulator	8-SOIC	6.75	4.49	3.85
LT1376CS8-5#PBF-ND	5V, 500KHz, 1.5A, Step Down Switching Regulator* ***NEW!***	8-SOIC	6.75	4.49	3.85
LT1376HVCS8-ND	Adj., 500KHz, 1.5A, Step Down Switching Reg.	8-SOIC	7.13	4.74	3.57
LT1376HVCS8#PBF-ND	Adj., 500KHz, 1.5A, Step Down Switching Reg.* ***NEW!***	8-SOIC	7.13	4.85	4.37
LT1376HVIS-ND	Adj., 500KHz, 1.5A, Step Down Switching Regulator	16-SOIC	9.50	6.31	5.00
LT1376IS-ND	Adj., 500KHz, 1.5A, Step Down Switching Regulator, Ind. Temp.	16-SOIC	8.63	5.73	4.55
LT1376IS#PBF-ND	Adj., 500KHz, 1.5A, Step Down Switching Regulator, Ind. Temp.* ***NEW!***	16-SOIC	8.63	5.73	4.55
LT1376IS8-ND	Adj., 500KHz, 1.5A, Step Down Switching Regulator	8-SOIC	7.75	5.15	4.10
LT1376IS8#PBF-ND	Adj., 500KHz, 1.5A, Step Down Switching Reg.* ***NEW!***	8-SOIC	7.75	5.15	4.10
LT1376IS8-5-ND	5V, 500KHz, 1.5A, Step Down Switching Regulator	8-SOIC	8.13	5.40	4.65
LT1376IS8-5#PBF-ND	5V, 500KHz, 1.5A, Step Down Switching Regulator* ***NEW!***	8-SOIC	8.13	5.40	4.65
LT1377CS8-ND	1MHz, 1.5A, High Efficiency Switching Regulator	8-SOIC	7.88	5.25	4.50
LT1377CS8#PBF-ND	1MHz, 1.5A, High Efficiency Switching Regulator* ***NEW!***	8-SOIC	7.88	5.25	4.50
LT1377IS8-ND	1MHz, 1.5A, High Efficiency Switching Regulator, Ind. Temp.	8-SOIC	9.50	6.35	5.40
LT1377IS8#PBF-ND	1MHz, 1.5A, High Efficiency Switching Regulator, Ind. Temp.* ***NEW!***	8-SOIC	9.50	6.35	5.40
LT1424CN8-9-ND	Isolated Flyback Switch Regulator with 9V Output	8-Dip	5.88	3.91	3.10
LT1424CS8-9-ND	Isolated Flyback Switch Regulator with 9V Output	8-SOIC	6.13	4.07	3.25
LT1424IN8-9-ND	Isolated Flyback Switch Reg. with 9V Output, Ind. Temp	8-Dip	7.38	4.90	4.30
LT1424IS8-5-ND	Isolated Flyback Switch Reg. with 5V Output, Ind. Temp	8-SOIC	7.63	5.07	4.45
LT1424IS8-5#PBF-ND	Isolated Flyback Switch Reg. with 5V Output, Ind. Temp.* ***NEW!***	8-SOIC	7.63	5.07	4.45
LT1424IS8-9-ND	Isolated Flyback Switch Reg. with 9V Output, Ind. Temp	8-SOIC	7.63	5.07	4.45
LT1425CS-ND	Isolated Flyback Switch Regulator	16-SOIC	5.88	3.91	3.10
LT1425CS#PBF-ND	Isolated Flyback Switch Regulator* ***NEW!***	16-SOIC	5.88	3.91	3.10
LT1425IS-ND	Isolated Flyback Switch Regulator, Ind. Temp.	16-SOIC	7.38	4.90	4.20
LT1425IS#PBF-ND	Isolated Flyback Switch Regulator, Ind. Temp.* ***NEW!***	16-SOIC	7.38	4.90	4.20
LT1506CR-SYNC-ND	500kHz, 4.5A, Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1506CR-3.3-ND	500kHz, 4.5A, 3.3V Step Down Switching Regulator	7-DD	10.00	6.64	5.00
LT1506CR-3.3#PBF-ND	500kHz, 4.5A, 3.3V Step Down Switching Regulator* ***NEW!***	7-DD	10.00	6.64	5.00
LT1506CS8-ND	500kHz, 4.5A, Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1506CS8#PBF-ND	500kHz, 4.5A, Step Down Switching Regulator* ***NEW!***	8-SOIC	9.38	6.23	4.70
LT1506CS8-3.3-ND	500kHz, 4.5A, 3.3V Step Down Switching Regulator	8-SOIC	9.38	6.23	4.70
LT1506CS8-3.3#PBF-ND	500kHz, 4.5A, 3.3V Step Down Switching Reg.* ***NEW!***	8-SOIC	9.38	6.23	4.70
LT1506IR-ND	500kHz, 4.5A, Step Down Switching Regulator	7-DD	11.50	7.64	5.75
LT1506IR#PBF-ND	500kHz, 4.5A, Step Down Switching Regulator* ***NEW!***	7-DD	11.50	7.64	5.75
LT1506IR-3.3-ND	500kHz, 4.5A, 3.3V Step Down Switching Regulator	7-DD	11.50	7.64	5.75
LT1506IS8-ND	500kHz, 4.5A, Step Down Switching Regulator	8-SOIC	10.75	7.14	5.40
LT1506IS8#PBF-ND	500kHz, 4.5A, Step Down Switching Regulator* ***NEW!***	8-SOIC	10.75	7.14	5.40
LT1506IS8-3.3-ND	500kHz, 4.5A, 3.3V Step Down Switching Regulator	8-SOIC	10.75	7.14	5.40
LT1506IS8-3.3#PBF-ND	500kHz, 4.5A, 3.3V Step Down Switching Reg.* ***NEW!***	8-SOIC	10.75	7.14	5.40
LT1507CS8-ND	500kHz, Monolithic Buck Mode Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1507CS8#PBF-ND	500kHz, Monolithic Buck Mode Switching Reg.* ***NEW!***	8-SOIC	6.75	4.50	3.85
LT1507CS8-3.3-ND	500kHz, 3.3V Mono Buck Mode Switching Regulator	8-SOIC	6.75	4.50	3.85
LT1507CS8-3.3#PBF-ND	500kHz, 3.3V Mono Buck Mode Switching Reg.* ***NEW!***	8-SOIC	6.75	4.50	3.85
LT1521CMS8-ND	Adj., 300mA, LDO Voltage Regulator	8-MSOP	4.63	3.08	2.35
LT1521CMS8#PBF-ND	Adj., 300mA, LDO Voltage Regulator* ***NEW!***	8-MSOP	4.63	3.08	2.35
LT1521CMS8-3.3-ND	3.3V, 300mA, LDO Voltage Regulator	8-MSOP	4.63	3.08	2.35
LT1521CMS8-3.3#PBF-ND	3.3V, 300mA, LDO Voltage Regulator* ***NEW!***	8-MSOP	4.63	3.08	2.35
LT1521CS8-ND	Adj., 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8#PBF-ND	Adj., 300mA, LDO Voltage Regulator* ***NEW!***	8-SOIC	4.13	2.75	2.50
LT1521CS8-3-ND	3V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-3#PBF-ND	3V, 300mA, LDO Voltage Regulator* ***NEW!***	8-SOIC	4.13	2.75	2.50
LT1521CS8-3.3-ND	3.3V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-3.3#PBF-ND	3.3V, 300mA, LDO Voltage Regulator* ***NEW!***	8-SOIC	4.13	2.75	2.50
LT1521CS8-5-ND	5V, 300mA, LDO Voltage Regulator	8-SOIC	4.13	2.75	2.50
LT1521CS8-5#PBF-ND	5V, 300mA, LDO Voltage Regulator* ***NEW!***	8-SOIC	4.13	2.75	2.50
LT1521CST-3-ND	3V, 300mA, LDO Voltage Regulator	SOT-223	3.88	2.58	2.00
LT1521CST-3.3-ND	3.3V, 300mA, LDO Voltage Regulator	SOT-223	3.88	2.58	2.00
LT1521CST-3.3#PBF-ND	3.3V, 300mA, LDO Voltage Regulator* ***NEW!***	SOT-223	3.88	2.58	2.00
LT1521CST-5-ND	5V, 300mA, LDO Voltage Regulator	SOT-223	3.88	2.58	2.00
LT1521CST-5#PBF-ND	5V, 300mA, LDO Voltage Regulator* ***NEW!***	SOT-223	3.88	2.58	2.00
LT1521IS8-3.3-ND	3.3V, 300mA LDO Voltage Regulator	8-SOIC	5.00	3.35	2.85
LT1521IS8-3.3#PBF-ND	3.3V, 300mA LDO Voltage Regulator* ***NEW!***	8-SOIC	5.00	3.35	2.85
LT1521IS8-5-ND	5V, 300mA, LDO Voltage Regulator	8-SOIC	5.00	3.35	2.85
LT1521IS8-5#PBF-ND	5V, 300mA, LDO Voltage Regulator* ***NEW!***	8-SOIC	5.00	3.35	2.85
LT1521IST-3.3-ND	3.3V, 300mA, LDO Voltage Regulator	SOT-223	4.75	3.16	2.70
LT1521IST-5-ND	5V, 300mA, LDO Voltage Regulator	SOT-223	4.75	3.16	2.70
LT1521IST-5#PBF-ND	5V, 300mA, LDO Voltage Regulator* ***NEW!***	SOT-223	4.75	3.16	2.70
LT1528CQ-ND	3.3V, 3A, LDO Voltage Regulator	5-DD	7.13	4.75	4.10
LT1528CQ#PBF-ND	3.3V, 3A, LDO Voltage Regulator* ***NEW!***	5-DD	7.13	4.75	4.10
LT1528CT-ND	3.3V, 3A, LDO Voltage Regulator	TO-220-5	6.50	4.35	3.75
LT1528CT#PBF-ND	3.3V, 3A, LDO Voltage Regulator* ***NEW!***	TO-220-5	6.50	4.35	3.75
LT1529CQ-ND	Adj., 3A, LDO Voltage Regulator with Shutdown	5-DD	7.13	4.74	3.57
LT1529CQ#PBF-ND	Adj., 3A, LDO Voltage Regulator with Shutdown* ***NEW!***	5-DD	7.13	4.74	3.57
LT1529CQ-3.3-ND	3.3V, 3A, LDO Voltage Regulator with Shutdown	5-DD	7.13	4.74	3.57
LT1529CQ-3.3#PBF-ND	3.3V, 3A, LDO Voltage Regulator with Shutdown* ***NEW!***	5-DD	7.13	4.74	3.57

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1529CQ-5-ND	5V, 3A, LDO Voltage Regulator with Shutdown	5-DD	7.13	4.74	3.57
LT1529CQ-5#PBF-ND	5V, 3A, LDO Voltage Regulator with Shutdown* ***NEW!***	5-DD	7.13	4.74	3.57
LT1529CT-ND	Adj., 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.50	4.32	3.25
LT1529CT#PBF-ND	Adj., 3A, LDO Voltage Regulator with Shutdown* ***NEW!***	TO-220-5	6.50	4.32	3.25
LT1529CT-3.3-ND	3.3V, 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.50	4.32	3.25
LT1529CT-3.3#PBF-ND	3.3V, 3A, LDO Voltage Regulator with Shutdown* ***NEW!***	TO-220-5	6.50	4.32	3.25
LT1529CT-5-ND	5V, 3A, LDO Voltage Regulator with Shutdown	TO-220-5	6.50	4.32	3.25
LT1529CT-5#PBF-ND	5V, 3A, LDO Voltage Regulator with Shutdown* ***NEW!***	TO-220-5	6.50	4.32	3.25
LT1529IQ-5-ND	5V, 3A, LDO Voltage Regulator with Shutdown	5-DD	8.13	5.40	4.07
LT1533CS-ND	1A, Ultra Low Noise Switching Regulator	16-SOIC	9.25	6.15	4.85
LT1533CS#PBF-ND	1A, Ultra Low Noise Switching Regulator* ***NEW!***	16-SOIC	9.25	6.15	4.85
LT1533IS-ND	1A, Ultra Low Noise Switching Regulator	16-SOIC	11.50	7.65	6.55
LT1533IS#PBF-ND	1A, Ultra Low Noise Switching Regulator* ***NEW!***	16-SOIC	11.50	7.65	6.55
LT1534CS-ND	2A, Ultra Low Noise Switching Regulator	16-SOIC	8.25	5.48	4.25
LT1534IS-ND	2A, Ultra Low Noise Switching Regulator	16-SOIC	9.50	6.31	4.80
LT1573CS8-ND	Adjustable LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8#PBF-ND	Adjustable LDO Regulator Driver* ***NEW!***	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.5-ND	2.5V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.5#PBF-ND	2.5V, LDO Regulator Driver* ***NEW!***	8-SOIC	3.75	2.49	1.88
LT1573CS8-2.8-ND	2.8V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.85
LT1573CS8-3.3-ND	3.3V, LDO Regulator Driver	8-SOIC	3.75	2.49	1.85
LT1575CN8-ND	Adjustable Precision Linear Regulator Controller	8-Dip	4.75	3.16	2.70
LT1575CN8-3.3-ND	3.3V, Precision Linear Regulator Controller	8-Dip	4.75	3.16	2.70
LT1575CS8-ND	Ultrafast Transient Response Low Dropout Regulator	8-SOIC	4.75	3.16	2.70
LT1575CS8#PBF-ND	Ultrafast Transient Response Low Dropout Reg.* ***NEW!***	8-SOIC	4.75	3.16	2.70
LT1575CS8-2.8-ND	2.8V, Precision Linear Regulator Controller	8-SOIC	4.75	3.16	2.70
LT1575CS8-3.3-ND	3.3V, Precision Linear Regulator Controller	8-SOIC	4.75	3.16	2.70
LT1575CS8-5-ND	5V, Precision Linear Regulator Controller	8-SOIC	4.75	3.16	2.70
LT1576CS8-ND	1.5A, 200KHz, Step Down Switching Regulator	8-SOIC	5.75	3.82	2.95
LT1576CS8#PBF-ND	1.5A, 200KHz, Step Down Switching Regulator* ***NEW!***	8-SOIC	5.75	3.82	2.95
LT1576IS8-SYNC-ND	1.5A, 200KHz, Step Down Switching Regulator, Sync. Input	8-SOIC	6.63	4.40	3.35
LT1579CGN-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3-ND	3V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3.3-ND	3.3V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CGN-3.3#PBF-ND	3.3V, 300mA, Dual Input, Smart LDO Regulator* ***NEW!***	16-SSOP	8.25	5.48	4.70
LT1579CGN-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	16-SSOP	8.25	5.48	4.70
LT1579CS-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-3-ND	3V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	16-SOIC	7.50	4.98	4.30
LT1579CS-5#PBF-ND	5V, 300mA, Dual Input, Smart LDO Regulator* ***NEW!***	16-SOIC	7.50	4.98	4.30
LT1579CS8-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579CS8-3-ND	3V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579CS8-3.3-ND	3.3V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579CS8-5-ND	5V, 300mA, Dual Input, Smart LDO Regulator	8-SOIC	6.75	4.49	3.85
LT1579IGN-ND	Adj., 300mA, Dual Input, Smart LDO Regulator	16-SSOP	10.00	6.64	5.70
LT1580CQ-ND	Adj., 7A, High-Speed LDO Voltage Regulator	5-DD	11.50	7.64	5.75
LT1580CQ#PBF-ND	Adj., 7A, High-Speed LDO Voltage Regulator* ***NEW!***	5-DD	11.50	7.64	5.75
LT1580CR-2.5-ND	2.5V, 7A, High-Speed LDO Voltage Regulator	7-DD	11.88	7.89	5.94
LT1580CR-2.5#PBF-ND	2.5V, 7A, High-Speed LDO Voltage Regulator* ***NEW!***	7-DD	11.88	7.89	5.94
LT1580CT-ND	Adj., 7A, High-Speed LDO Voltage Regulator	TO-220-5	11.25	7.47	5.63
LT1580CT#PBF-ND	Adj., 7A, High-Speed LDO Voltage Regulator* ***NEW!***	TO-220-5	11.25	7.47	5.63
LT1580CT7-2.5-ND	2.5V, 7A, High-Speed LDO Voltage Regulator	TO-220-7	11.63	7.72	5.82
LT1580CT7-2.5#PBF-ND	2.5V, 7A, High-Speed LDO Voltage Regulator* ***NEW!***	TO-220-7	11.63	7.72	5.82
LT1580IQ-ND	Adj., 7A, High-Speed LDO Voltage Regulator	5-DD	13.75	9.13	6.88
LT1580IQ#PBF-ND	Adj., 7A, High-Speed LDO Voltage Regulator* ***NEW!***	5-DD	13.75	9.13	6.88
LT1580IR-2.5-ND	2.5V, 7A, High-Speed LDO Voltage Regulator, Ind. Temp.	7-DD	14.00	9.30	7.00
LT1580IR-2.5#PBF-ND	2.5V, 7A, High-Speed LDO Voltage Regulator, Ind. Temp.* ***NEW!***	7-DD	14.00	9.30	7.00
LT1581CT7-ND	Adj., 10A, LDO Voltage Regulator	TO-220-7	13.13	8.75	7.50
LT1581CT7#PBF-ND	Adj., 10A, LDO Voltage Regulator* ***NEW!***	TO-220-7	13.13	8.75	7.50
LT1581CT7-2.5-ND	2.5V, 10A, LDO Voltage Regulator	TO-220-7	13.13	8.75	7.50
LT1584CT-ND	Adj., 7A, LDO Voltage Regulator	TO-220	10.63	7.08	6.05
LT1584CT#PBF-ND	Adj., 7A, LDO Voltage Regulator* ***NEW!***	TO-220	10.63	7.08	6.05
LT1584CT-3.3-ND	3.3V, 7A, LDO Voltage Regulator	TO-220	10.63	7.08	6.05
LT1584CT-3.3#PBF-ND	3.3V, 7A, LDO Voltage Regulator* ***NEW!***	TO-220	10.63	7.08	6.05
LT1584CT-3.38-ND	3.38V, 7A, LDO Voltage Regulator	TO-220	10.63	7.08	6.05
LT1584IT-3.3-ND	3.3V, 7A, LDO Voltage Regulator	TO-220	12.75	8.47	6.38
LT1585ACM-1.5-ND	1.5V, 4.6A, LDO Voltage Regulator	3-DD	8.13	5.40	4.65
LT1585ACM-1.5#PBF-ND	1.5V, 4.6A, LDO Voltage Regulator* ***NEW!***	3-DD	8.13	5.40	4.65
LT1585ACT-1.5-ND	1.5V, 4.6A, LDO Voltage Regulator	TO-220	7.50	5.00	4.25
LT1585ACT-1.5#PBF-ND	1.5V, 4.6A, LDO Voltage Regulator* ***NEW!***	TO-220	7.50	5.00	4.25
LT1585CM-ND	Adj., 4A, LDO Voltage Regulator	3-DD	7.75	5.15	4.30
LT1585CM#PBF-ND	Adj., 4A, LDO Voltage Regulator* ***NEW!***	3-DD	7.75	5.15	4.30
LT1585CM-3.3-ND	3.3V, 4A, LDO Voltage Regulator	3-DD	7.75	5.15	4.30
LT1585CM-3.3#PBF-ND	3.3V, 4A, LDO Voltage Regulator* ***NEW!***	3-DD	7.75	5.15	4.30
LT1585CM-3.6-ND	3.6V, 4A, LDO Voltage Regulator	3-DD	7.75	5.15	4.30
LT1585CT-ND	Adj., 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1585CT#PBF-ND	Adj., 4A, LDO Voltage Regulator* ***NEW!***	TO-220	7.13	4.75	4.00
LT1585CT-3.3-ND	3.3V, 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1585CT-3.3#PBF-ND	3.3V, 4A, LDO Voltage Regulator* ***NEW!***	TO-220	7.13	4.75	4.00
LT1585CT-3.38-ND	3.38V, 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1585CT-3.6-ND	3.6V, 4A, LDO Voltage Regulator	TO-220	7.13	4.75	4.00
LT1587CM-ND	Adj., 3A, LDO Voltage Regulator	3-DD	6.50	4.35	3.70
LT1587CM#PBF-ND	Adj., 3A, LDO Voltage Regulator* ***NEW!***	3-DD	6.50	4.35	3.70
LT1587CM-1.5-ND	1.5V, 3A, LDO Voltage Regulator	3-DD	6.50	4.35	3.70
LT1587CM-1.5#PBF-ND	1.5V, 3A, LDO Voltage Regulator* ***NEW!***	3-DD	6.50	4.35	3.70
LT1587CM-3.3-ND	3.3V, 3A, LDO Voltage Regulator	3-DD	6.50	4.33	3.70
LT1587CM-3.3#PBF-ND	3.3V, 3A, LDO Voltage Regulator* ***NEW!***	3-DD	6.50	4.33	3.70
LT1587CT-ND	Adj. 3A, LDO Voltage Regulator	TO-220	5.88	3.92	3.35
LT1587CT#PBF-ND	Adj. 3A, LDO Voltage Regulator* ***NEW!***	TO-220	5.88	3.92	3.35
LT1587CT-3.3-ND	3.3V, 3A, LDO Voltage Regulator	TO-220	5.88	3.92	3.35
LT1587CT-3.3#PBF-ND	3.3V, 3A, LDO Voltage Regulator* ***NEW!***	TO-220	5.88	3.92	3.35
LT1610CMS8-ND	1.7MHz, Single Cell DC/DC Converter	8-MSOP	4.13	2.74	2.10
LT1610CMS8#PBF-ND	1.7MHz, Single Cell DC/DC Converter* ***NEW!***	8-MSOP	4.13	2.74	2.10
LT1610CS8-ND	1.7MHz, Single Cell DC/DC Converter	8-SOIC	3.50	2.33	1.75
LT1610CS8#PBF-ND	1.7MHz, Single Cell DC/DC Converter* ***NEW!***	8-SOIC	3.50	2.33	1.75
LT1610IS8-ND	1.7MHz, Single Cell DC/DC Converter	8-SOIC	4.25	2.83	2.25
LT1610IS8#PBF-ND	1.7MHz, Single Cell DC/DC Converter* ***NEW!***	8-SOIC	4.25	2.83	2.25
LT1611CS5-ND	1.4MHz, Inverting Switching Regulator	SOT-23-5	4.10	2.73	2.21
LT1611CS5#PBF-ND	1.4MHz, Inverting Switching Regulator* ***NEW!***	SOT-23-5	4.10	2.73	2.21
LT1613CS5-ND	1.4MHz, Single Cell DC/DC Controller	SOT-23-5	3.60	2.40	1.80
LT1613CS5#PBF-ND	1.4MHz, Single Cell DC/DC Controller* ***NEW!***	SOT-23-5	3.60	2.40	1.80
LT1614CMS8-ND	600KHz, Inverting Switching Regulator	8-MSOP	5.50	3.66	2.80
LT1614CMS8#PBF-ND	600KHz, Inverting Switching Regulator* ***NEW!***	8-MSOP	5.50	3.66	2.80
LT1614CS8-ND	600KHz, Inverting Switching Regulator	8-SOIC	5.00	3.32	2.55
LT1614CS8#PBF-ND	600KHz, Inverting Switching Regulator* ***NEW!***	8-SOIC	5.00	3.32	2.55
LT1615ES5-ND	Micropower Step Up DC/DC Converter	SOT-23-5	3.60	2.40	1.80
LT1615ES5#PBF-ND	Micropower Step Up DC/DC Converter* ***NEW!***	SOT-23-5	3.60	2.40	1.80
LT1615ES5-1#TR-ND	Micropower Step Up DC/DC Converter	SOT-23-5	4500.00/2,500		
LT1615IS5-ND	Micropower Step Up DC/DC Converter	SOT-23-5	4.10	2.73	2.05
LT1615IS5#PBF-ND	Micropower Step Up DC/DC Converter* ***NEW!***	SOT-23-5	4.10	2.73	2.05
LT1615IS5TR-ND	Micropower Step Up DC/DC Converter	SOT-23-5	5125.00/2,500		
LT1616ES6-ND	1.4MHz, Step Down Switching Regulator	SOT-23-6	4.10	2.73	2.05
LT1616ES6#PBF-ND	1.4MHz, Step Down Switching Regulator* ***NEW!***	SOT-23-6	4.10	2.73	2.05
LT1618EMS-ND	1.4MHz, Step Up DC/DC Converter	10-MSOP	3.50	2.33	1.86
LT1618EMS#PBF-ND	1.4MHz, Step Up DC/DC Converter* ***NEW!***	10-MSOP	3.50	2.33	1.86
LT1619EMS8-ND	300KHz, 2-Cell Current Mode PWM Controller	8-MSOP	4.50	2.99	2.25
LT1619EMS8#PBF-ND	300KHz, 2-Cell Current Mode PWM Controller* ***NEW!***	8-MSOP	4.50	2.99	2.25
LT1619EMS8TR-ND	300KHz, 2-Cell Current Mode PWM Controller	8-MSOP	5782.50/2,500		
LT1619ES8-ND	300KHz, 2-Cell Current Mode PWM Controller	8-SOIC	4.25	2.83	2.13
LT1619ES8#PBF-ND	300KHz, 2-Cell Current Mode PWM Controller* ***NEW!***	8-SOIC	4.25	2.83	2.13
LT1619ES8TR-ND	300KHz, 2-Cell Current Mode PWM Controller	8-SOIC	5470.00/2,500		
LT1676CS8-ND	High Efficiency, Step Down Switching Regulator	8-SOIC	5.38	3.57	2.85
LT1676CS8#PBF-ND	High Efficiency, Step Down Switching Regulator* ***NEW!***	8-SOIC	5.38	3.57	2.85
LT1676IS8-ND	High Efficiency, Step Down Switching Regulator, Ind Temp.	8-SOIC	6.25	4.15	3.35
LT1676IS8#PBF-ND	High Efficiency, Step Down Switching Regulator, Ind Temp.* ***NEW!***	8-SOIC	6.25	4.15	3.35
LT1680CN-ND	High Power DC/DC Step Up Controller	16-Dip	8.00	5.32	4.25
LT1680CN#PBF-ND	High Power DC/DC Step Up Controller* ***NEW!***	16-Dip	8.00	5.32	4.25
LT1680CSW-ND	High Power DC/DC Step Up Controller	16-SOIC	8.38	5.57	4.45
LT1680CSW#PBF-ND	High Power DC/DC Step Up Controller* ***NEW!***	16-SOIC	8.38	5.57	4.45
LT1680IN-ND	High Power DC/DC Step Up Controller	16-Dip	9.63	6.40	5.15
LT1680ISW-ND	High Power DC/DC Step Up Controller	16-SOIC	10.00	6.64	5.35
LT1680ISW#PBF-ND	High Power DC/DC Step Up Controller* ***NEW!***	16-SOIC	10.00	6.64	5.35
LT1681ESW-ND	Dual Transistor Sync. Forward Controller	20-SOIC	10.63	7.06	5.32
LT1681ESW#PBF-ND	Dual Transistor Sync. Forward Controller* ***NEW!***	20-SOIC	10.63	7.06	5.32
LT1683EG-ND	Ultra Low Noise Push-Pull DC/DC Controller	20-SSOP	9.63	6.40	4.85
LT1683EG#PBF-ND	Ultra Low Noise Push-Pull DC/DC Controller* ***NEW!***	20-SSOP	9.63	6.40	4.85
LT1725IGN-ND	General Purpose Isolated Flyback Controller	16-SSOP	7.25	4.82	3.63
LT1725IGN#PBF-ND	General Purpose Isolated Flyback Controller* ***NEW!***	16-SSOP	7.25	4.82	3.63
LT1725IS-ND	General Purpose Isolated Flyback Controller	16-SOIC	7.00	4.65	3.50
LT1725IS#PBF-ND	General Purpose Isolated Flyback Controller* ***NEW!***	16-SOIC	7.00	4.65	3.50
LT1737IGN-ND	High Power Isolated Flyback Controller	16-SSOP	7.25	4.82	3.63
LT1737IGN#PBF-ND	High Power Isolated Flyback Controller* ***NEW!***	16-SSOP	7.25	4.82	3.63
LT1737IS-ND	High Power Isolated Flyback Controller	16-SOIC	7.00	4.65	3.50
LT1738EG-ND	Ultra Low Noise DC/DC Controller	20-SSOP	8.63	5.73	4.32
LT1738EG#PBF-ND	Ultra Low Noise DC/DC Controller* ***NEW!***	20-SSOP	8.63	5.73	4.32
LT1738IG-ND	Ultra Low Noise DC/DC Controller	20-SSOP	9.88	6.56	4.94
LT1761ES5-BYP-ND	Adj., 100mA, Low Noise LDO Micropower Regulator	SOT-23-5	2.03	1.35	1.02
LT1761ES5-BYP#PBF-ND	Adj., 100mA, Low Noise LDO Micropower Reg.* ***NEW!***	SOT-23-5	2.03	1.35	1.02
LT1761ES5-1.5-ND	1.5V, 100mA, Low Noise LDO Micropower Regulator	SOT-23-5	2.03	1.35	1.02
LT1761ES5-1.5#PBF-ND	1.5V, 100mA, Low Noise LDO Micropower Reg.* ***NEW!***	SOT-23-5	2.03	1.35	1.02
LT1761ES5-1.8-ND	1.8V, 100mA, Low Noise LDO Micropower Regulator	SOT-23-5	2.03	1.35	1.02
LT1761ES5-1.8#PBF-ND	1.8V, 100mA, Low Noise LDO Micropower Reg.* ***NEW!***	SOT-23-5	2.03	1.35	1.02
LT1761ES5-2.5-ND	2.5V, 100mA, Low Noise LDO Micropower Regulator	SOT-23-5	2.03	1.35	1.02
LT1761ES5-2.5#PBF-ND	2.5V, 100mA, Low Noise LDO Micropower Reg.* ***NEW!***	SOT-23-5	2.03	1.35	1.02
LT1761ES5-3.3-ND	3.3V, 100mA, Low Noise LDO Micropower Regulator	SOT-23-5	2.03	1.35	1.02
LT1761ES5-3.3#PBF-ND	3.3V, 100mA, Low Noise LDO Micropower Reg.* ***NEW!***	SOT-23-5	2.03	1.35	1.02
LT1761ES5-5-ND	5V, 100mA, Low Noise LDO Micropower Regulator	SOT-23-5	2.03	1.35	1.02
LT1761ES5-SD-ND	Adj.,100mA, Low Noise, LDO Micropower Regulator	SOT-23-5	2.03	1.35	1.02
LT1761ES5-SD#PBF-ND	Adj.,100mA, Low Noise, LDO Micropower Reg.* ***NEW!***	SOT-23-5	2.03	1.35	1.02
LT1762EMS8-ND	Adj., 150mA, Low Noise LDO Micropower Regulator	8-MSOP	2.38	1.58	1.19
LT1762EMS8#PBF-ND	Adj., 150mA, Low Noise LDO Micropower Reg.* ***NEW!***	8-MSOP	2.38	1.58	1.19
LT1763CS8-ND	Adj., 500mA, Low Noise LDO Micropower Regulator	8-SOIC	4.13	2.74	2.07
LT1763CS8#PBF-ND	Adj., 500mA, Low Noise LDO Micropower Regulator*	8-SOIC	4.13	2.74	2.07
LT1763CS8-1.8-ND	1.8V, 500mA, Low Noise, LDO Micropower Regulator	8-SOIC	4.13	2.74	2.07
LT1763CS8-2.5-ND	2.5V, 500mA, Low Noise, LDO Micropower Regulator	8-SOIC	4.13	2.74	2.07
LT1763CS8-2.5#PBF-ND	2.5V, 500mA, Low Noise, LDO Micropower Reg.* ***NEW!***	8-SOIC	4.13	2.74	2.07
LT1763CS8-3.3-ND	3.3V, 500mA, Low Noise, LDO Micropower Regulator	8-SOIC	4.13	2.74	2.07
LT1763CS8-3.3#PBF-ND	3.3V, 500mA, Low Noise, LDO Micropower Reg.* ***NEW!***	8-SOIC	4.13	2.74	2.07
LT1763CS8-5-ND	5V, 500mA, Low Noise, LDO Micropower Regulator	8-SOIC	4.13	2.74	2.07
LT1764AEQ-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	5.09	4.19
LT1764AEQ#PBF-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator*	5-DD	7.13	5.09	4.19
LT1764AEQ-1.5-ND	1.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	5.09	4.19
LT1764AEQ-1.5#PBF-ND	1.5V, 3A, Fast Transient Response, Low Noise LDO Regulator* ***NEW!***	5-DD	7.13	5.09	4.19
LT1764AEQ-1.8-ND	1.8V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	5.09	4.19
LT1764AEQ-1.8#PBF-ND	1.8V, 3A, Fast Transient Response, Low Noise LDO Regulator* ***NEW!***	5-DD	7.13	5.09	4.19
LT1764AEQ-2.5-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	5.09	4.19
LT1764AEQ-2.5#PBF-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator* ***NEW!***	5-DD	7.13	5.09	4.19
LT1764AEQ-3.3-ND	3.3V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	5.09	4.19
LT1764AEQ-3.3#PBF-ND	3.3V, 3A, Fast Transient Response, Low Noise LDO Regulator* ***NEW!***	5-DD	7.13	5.09	4.19
LT1764AET-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Reg.	TO-220-5	7.13	5.09	4.19
LT1764AET#PBF-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Reg* ***NEW!***	TO-220-5	7.13	5.09	4.19
LT1764AET-1.5-ND	1.5V, 3A, Fast Transient Response, Low Noise LDO Reg	TO-220-5	7.13	5.09	4.19
LT1764AET-1.8-ND	1.8V, 3A, Fast Transient Response, Low Noise LDO Reg	TO-220-5	7.13	5.09	4.19
LT1764AET-2.5-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Reg	TO-220-5	7.13	5.09	4.19
LT1764AET-3.3-ND	3.3V, 3A, Fast Transient Response, Low Noise LDO Reg	TO-220-5	7.13	5.09	4.19
LT1764AET-3.3#PBF-ND	3.3V, 3A, Fast Transient Response, Low Noise LDO Regulator* ***NEW!***	TO-220-5	7.13	5.09	4.19
LT1764EQ-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.38	4.90	3.69
LT1764EQ#PBF-ND	Adj., 3A, Fast Transient Response, Low Noise LDO Regulator* ***NEW!***	5-DD	7.38	4.90	3.69
LT1764EQ-2.5-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator	5-DD	7.13	4.74	3.57
LT1764EQ-2.5#PBF-ND	2.5V, 3A, Fast Transient Response, Low Noise LDO Regulator* ***NEW!***	5-DD	7.13	4.74	3.57
LT1765EFE-ND	3A Step Down Switching Regulator	16-TSSOP	9.65	6.89	5.68
LT1765EFE#PBF-ND	3A Step Down Switching Regulator* ***NEW!***	16-TSSOP	9.65	6.89	5.68
LT1765EFE-1.8-ND	1.8V, 3A Step Down Switching Regulator	16-TSSOP	9.65	6.89	5.68
LT1765EFE-1.8#PBF-ND	1.8V, 3A Step Down Switching Regulator* ***NEW!***	16-TSSOP	9.65	6.89	5.68
LT1765EFE-2.5-ND	2.5V, 3A Step Down Switching Regulator	16-TSSOP	9.65	6.89	5.68

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1765EFE-2.5#PBF-ND	2.5V, 3A Step Down Switching Regulator* ***NEW!***	16-TSSOP	9.65	6.89	5.68
LT1765EFE-3.3-ND	3.3V, 3A Step Down Switching Regulator	16-TSSOP	9.65	6.89	5.68
LT1765EFE-3.3#PBF-ND	3.3V, 3A Step Down Switching Regulator* ***NEW!***	16-TSSOP	9.65	6.89	5.68
LT1765EFE-5-ND	5V, 3A Step Down Switching Regulator	16-TSSOP	9.65	6.89	5.68
LT1765EFE-5#PBF-ND	5V, 3A Step Down Switching Regulator* ***NEW!***	16-TSSOP	9.65	6.89	5.68
LT1765ES8-ND	3A-Step Down Switching Regulator	8-SOIC	9.58	6.36	4.79
LT1765ES8#PBF-ND	3A-Step Down Switching Regulator* ***NEW!***	8-SOIC	9.58	6.36	4.79
LT1766EGN-ND	1.5A, 200KHz High Volt. Step Down Switching Regulator	16-SSOP	7.38	4.90	3.72
LT1766EGN#PBF-ND	1.5A, 200KHz High Volt. Step Down Switching Regulator* ***NEW!***	16-SSOP	7.38	4.90	3.72
LT1766EGN-5-ND	1.5A, 200KHz High Volt. Step Down Switching Regulator	16-SSOP	7.38	4.90	3.72
LT1766EGN-5#PBF-ND	1.5A, 200KHz High Volt. Step Down Switching Regulator* ***NEW!***	16-SSOP	7.38	4.90	3.72
LT1766IGN-ND	1.5A, 200KHz High Volt. Step Down Switching Regulator	16-SSOP	9.00	5.98	4.50
LT1766IGN#PBF-ND	1.5A, 200KHz High Volt. Step Down Switching Regulator* ***NEW!***	16-SSOP	9.00	5.98	4.50
LT1767EMS8-1.8-ND	1.8V, Mono 1.5A, 1.25MHz Step Down Switching Reg.	8-MSOP	6.00	3.99	3.10
LT1767EMS8-2.5-ND	2.5V, Mono 1.5A, 1.25MHz Step Down Switching Reg.	8-MSOP	6.00	3.99	3.10
LT1767EMS8-2.5#PBF-ND	2.5V, Mono 1.5A, 1.25MHz Step Down Switching Reg.* ***NEW!***	8-MSOP	6.00	3.99	3.10
LT1767EMS8-3.3-ND	3.3V, Mono 1.5A, 1.25MHz Step Down Switching Reg.	8-MSOP	6.00	3.99	3.10
LT1767EMS8-3.3#PBF-ND	3.3V, Mono 1.5A, 1.25MHz Step Down Switching Reg.* ***NEW!***	8-MSOP	6.00	3.99	3.10
LT1767EMS8-5-ND	5V, Mono 1.5A, 1.25MHz Step Down Switching Reg.	8-MSOP	6.00	3.99	3.10
LT1767EMS8-5#PBF-ND	5V, Mono 1.5A, 1.25MHz Step Down Switching Reg.* ***NEW!***	8-MSOP	6.00	3.99	3.10
LT1767EMS8E-ND	Mono 1.5A, 1.25MHz Step Down Switching Reg.	8-MSOP	6.10	4.36	3.59
LT1767EMS8E#PBF-ND	Mono 1.5A, 1.25MHz Step Down Switching Reg.* ***NEW!***	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-1.8-ND	1.8V, Mono 1.5A, 1.25MHz Step Down Switching Reg.	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-1.8#PBF-ND	1.8V, Mono 1.5A, 1.25MHz Step Down Switching Reg.* ***NEW!***	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-2.5-ND	2.5V, Mono 1.5A, 1.25MHz Step Down Switching Reg.	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-3.3-ND	3.3V, Mono 1.5A, 1.25MHz Step Down Switching Reg.	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-3.3#PBF-ND	3.3V, Mono 1.5A, 1.25MHz Step Down Switching Reg.* ***NEW!***	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-5-ND	5V, Mono 1.5A, 1.25MHz Step Down Switching Reg.	8-MSOP	6.10	4.36	3.59
LT1767EMS8E-5#PBF-ND	5V, Mono 1.5A, 1.25MHz Step Down Switching Reg.* ***NEW!***	8-MSOP	6.10	4.36	3.59
LT1776CN8-ND	High Eff., Step Down Switching Reg., Wide Input Range	8-Dip	5.00	3.32	2.65
LT1776CN8#PBF-ND	High Eff., Step Down Switching Reg., Wide Input Range* ***NEW!***	8-Dip	5.00	3.32	2.65
LT1776CS8-ND	High Eff., Step Down Switching Reg., Wide Input Range	8-SOIC	5.25	3.49	2.75
LT1776CS8#PBF-ND	High Eff., Step Down Switching Reg., Wide Input Range* ***NEW!***	8-SOIC	5.25	3.49	2.75
LT1776IN8-ND	High Eff., Step Down Switching Reg., Wide Input Range	8-Dip	5.75	3.82	3.10
LT1776IS8-ND	High Eff., Step Down Switching Reg., Wide Input Range	8-SOIC	6.00	3.99	3.15
LT1776IS8#PBF-ND	High Eff., Step Down Switching Reg., Wide Input Range* ***NEW!***	8-SOIC	6.00	4.16	3.72
LT1777IS-ND	Low Noise Step Down Switching Regulator	16-SOIC	6.25	4.15	3.35
LT1777IS#PBF-ND	Low Noise Step Down Switching Regulator* ***NEW!***	16-SOIC	6.25	4.15	3.35
LT1930AES5-ND	2.2MHz, Step Up DC/DC Converter	TSOT-23-5	4.10	2.73	2.05
LT1930AES5#PBF-ND	2.2MHz, Step Up DC/DC Converter* ***NEW!***	TSOT-23-5	4.10	2.73	2.05
LT1930ES5-ND	1.2MHz, Step Up DC/DC Converter	TSOT-23-5	4.10	2.73	2.05
LT1930ES5#PBF-ND	1.2MHz, Step Up DC/DC Converter* ***NEW!***	TSOT-23-5	4.10	2.73	2.05
LT1930ES5TR-ND	1.2MHz, Step Up DC/DC Converter	TSOT-23-5	5125.00/2,500		
LT1931AES5-ND	2.2MHz, Inverting DC/DC Converter	TSOT-23-5	4.35	2.89	2.21
LT1931AES5#PBF-ND	2.2MHz, Inverting DC/DC Converter* ***NEW!***	TSOT-23-5	4.35	2.89	2.21
LT1931ES5-ND	1.2MHz, Inverting DC/DC Converter	TSOT-23-5	4.35	2.89	2.21
LT1931ES5#PBF-ND	1.2MHz, Inverting DC/DC Converter* ***NEW!***	TSOT-23-5	4.35	2.89	2.21
LT1931ES5TR-ND	1.2MHz, Inverting DC/DC Converter	TSOT-23-5	5500.00/2,500		
LT1932ES6-ND	Constant-Current DC/DC LED Driver	SOT-23-6	3.63	2.41	1.86
LT1932ES6#PBF-ND	Constant-Current DC/DC LED Driver* ***NEW!***	SOT-23-6	3.63	2.41	1.86
LT1934ES6-ND	Micropower Step Down Switching Regulator	SOT-23-6	4.48	2.98	2.40
LT1937ES5-ND	White LED Step Up Converter	TSOT-23-5	2.60	1.87	1.53
LT1937ES5#PBF-ND	White LED Step Up Converter* ***NEW!***	TSOT-23-5	2.60	1.87	1.53
LT1940EFE-ND	Dual Mono 1.4A, 1.1MHz Step Down Switching Reg.	16-TSSOP	7.40	5.29	4.35
LT1944-1EMS-ND	Dual Micropower Step Up DC/DC Converter	10-MSOP	4.25	2.83	2.13
LT1944-1EMS#PBF-ND	Dual Micropower Step Up DC/DC Converter* ***NEW!***	10-MSOP	4.25	2.83	2.13
LT1944EMS-ND	Dual Micropower Step Up DC/DC Converter	10-MSOP	4.25	2.83	2.13
LT1944EMS#PBF-ND	Dual Micropower Step Up DC/DC Converter* ***NEW!***	10-MSOP	4.25	2.83	2.13
LT1945EMS-ND	Dual Micropower DC/DC Converter	10-MSOP	4.25	2.83	2.13
LT1945EMS#PBF-ND	Dual Micropower DC/DC Converter* ***NEW!***	10-MSOP	4.25	2.83	2.13
LT1946AEMS8E-ND	2.7MHz Boost DC/DC Converter with 1.5A Switch	8-MSOP	3.50	2.33	1.86
LT1946AEMS8E#PBF-ND	2.7MHz Boost DC/DC Converter with 1.5A Switch* ***NEW!***	8-MSOP	3.50	2.33	1.86
LT1946EMS8-ND	1.2MHz Boost DC/DC Converter with 1.5A Switch	8-MSOP	3.50	2.33	1.86
LT1946EMS8#PBF-ND	1.2MHz Boost DC/DC Converter with 1.5A Switch* ***NEW!***	8-MSOP	3.50	2.33	1.86
LT1947EMS-ND	Adj. Output TFT-LCD Triple Switching Regulator	10-MSOP	5.13	3.41	2.65
LT1947EMS#PBF-ND	Adj. Output TFT-LCD Triple Switching Regulator* ***NEW!***	10-MSOP	5.13	3.41	2.65
LT1949-1EMS8-ND	1.1MHz, 1A Switch PWM DC/DC Converter	8-MSOP	4.50	2.99	2.30
LT1949EMS8-ND	600KHz, 1A Switch PWM DC/DC Converter	8-MSOP	4.50	2.99	2.30
LT1949EMS8#PBF-ND	600KHz, 1A Switch PWM DC/DC Converter* ***NEW!***	8-MSOP	4.50	2.99	2.30
LT1950IGN-ND	Single Switch PWM Controller	16-SSOP	6.63	4.73	3.90
LT1950IGN#PBF-ND	Single Switch PWM Controller* ***NEW!***	16-SSOP	6.63	4.73	3.90
LT1956EGN-ND	1.5A, High Voltage Step Down Switching Regulator	16-SSOP	7.38	4.90	3.72
LT1956EGN#PBF-ND	1.5A, High Voltage Step Down Switching Reg.* ***NEW!***	16-SSOP	7.38	4.90	3.72
LT1956EGN-5-ND	1.5A, 5V Step Down Switching Regulator	16-SSOP	7.38	4.90	3.72
LT1956EGN-5#PBF-ND	1.5A, 5V Step Down Switching Regulator* ***NEW!***	16-SSOP	7.38	4.90	3.72
LT1961EMS8E-ND	1.5A, Step Up Switching Regulator	8-MSOP	3.38	2.25	1.80
LT1961EMS8E#PBF-ND	1.5A, Step Up Switching Regulator* ***NEW!***	8-MSOP	3.38	2.25	1.80
LT1962EMS8-ND	Adj., 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
LT1962EMS8#PBF-ND	Adj., 300mA, Low Noise Micropower LDO Reg.* ***NEW!***	8-MSOP	3.50	2.33	1.80
LT1962EMS8TR-ND	Adj., 300mA, Low Noise Micropower LDO Regulator	8-MSOP	4625.00/2,500		
LT1962EMS8-2.5-ND	2.5V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
LT1962EMS8-2.5#PBF-ND	2.5V, 300mA, Low Noise Micropower LDO Reg.* ***NEW!***	8-MSOP	3.50	2.33	1.80
LT1962EMS8-3-ND	3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
LT1962EMS8-3#PBF-ND	3V, 300mA, Low Noise Micropower LDO Reg.* ***NEW!***	8-MSOP	3.50	2.33	1.80
LT1962EMS8-3TR-ND	3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	4625.00/2,500		
LT1962EMS8-3.3-ND	3.3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
LT1962EMS8-3.3#PBF-ND	3.3V, 300mA, Low Noise Micropower LDO Reg.* ***NEW!***	8-MSOP	3.50	2.33	1.80

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1962EMS8-3.3TR-ND	3.3V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	4625.00/2,500		
LT1962EMS8-5-ND	5V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	3.50	2.33	1.80
LT1962EMS8-5#PBF-ND	5V, 300mA, Low Noise Micropower LDO Reg.* ***NEW!***	8-MSOP	3.50	2.33	1.80
LT1962EMS8-5TR-ND	5V, 300mA, Low Noise Micropower LDO Regulator	8-MSOP	4625.00/2,500		
LT1963AEQ-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Reg.	5-DD	5.25	3.57	2.94
LT1963AEQ#PBF-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Reg.*	5-DD	5.25	3.57	2.94
LT1963AEQ-1.5-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	5-DD	5.25	3.57	2.94
LT1963AEQ-1.5#PBF-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	5-DD	5.25	3.57	2.94
LT1963AEQ-1.8-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	5-DD	5.25	3.57	2.94
LT1963AEQ-1.8#PBF-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	5-DD	5.25	3.57	2.94
LT1963AEQ-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	5-DD	5.25	3.57	2.94
LT1963AEQ-2.5#PBF-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	5-DD	5.25	3.57	2.94
LT1963AEQ-3.3-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	5-DD	5.25	3.57	2.94
LT1963AEQ-3.3#PBF-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	5-DD	5.25	3.57	2.94
LT1963AES8-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Reg.	8-SOIC	4.50	2.99	2.30
LT1963AES8#PBF-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Reg.*	8-SOIC	4.50	2.99	2.30
LT1963AES8-1.5-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	8-SOIC	4.50	2.99	2.30
LT1963AES8-1.5#PBF-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	8-SOIC	4.50	2.99	2.30
LT1963AES8-1.8-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	8-SOIC	4.50	2.99	2.30
LT1963AES8-1.8#PBF-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	8-SOIC	4.50	2.99	2.30
LT1963AES8-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	8-SOIC	4.50	2.99	2.30
LT1963AES8-2.5#PBF-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	8-SOIC	4.50	2.99	2.30
LT1963AES8-3.3-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	8-SOIC	4.50	2.99	2.30
LT1963AES8-3.3#PBF-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	8-SOIC	4.50	2.99	2.30
LT1963AEST-1.5-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	SOT-223	4.50	2.99	2.30
LT1963AEST-1.5#PBF-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	SOT-223	4.50	2.99	2.30
LT1963AEST-1.8-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	SOT-223	4.50	2.99	2.30
LT1963AEST-1.8#PBF-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	SOT-223	4.50	2.99	2.30
LT1963AEST-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	SOT-223	4.50	2.99	2.30
LT1963AEST-2.5#PBF-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	SOT-223	4.50	2.99	2.30
LT1963AEST-3.3-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	SOT-223	4.50	2.99	2.30
LT1963AEST-3.3#PBF-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	SOT-223	4.50	2.99	2.30
LT1963AET-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Reg.	TO-220-5	5.25	3.57	2.94
LT1963AET#PBF-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	TO-220-5	5.25	3.57	2.94
LT1963AET-1.5-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	TO-220-5	5.25	3.57	2.94
LT1963AET-1.5#PBF-ND	1.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	TO-220-5	5.25	3.57	2.94
LT1963AET-1.8-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	TO-220-5	5.25	3.57	2.94
LT1963AET-1.8#PBF-ND	1.8V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	TO-220-5	5.25	3.57	2.94
LT1963AET-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	TO-220-5	5.25	3.57	2.94
LT1963AET-2.5#PBF-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	TO-220-5	5.25	3.57	2.94
LT1963AET-3.3-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	TO-220-5	5.25	3.57	2.94
LT1963AET-3.3#PBF-ND	3.3V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	TO-220-5	5.25	3.57	2.94
LT1963EQ-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Reg.	5-DD	5.25	3.49	2.65
LT1963EQ#PBF-ND	Adj., 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	5-DD	5.25	3.49	2.65
LT1963EST-2.5-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.	SOT-223	4.50	2.99	2.30
LT1963EST-2.5#PBF-ND	2.5V, 1.5A, Low Noise, Fast Transient Response LDO Reg.* ***NEW!***	SOT-223	4.50	2.99	2.30
LT1964ES5-BYP-ND	200mA, Low Noise LDO Neg. Micropower Regulator	SOT-23-5	2.80	1.86	1.44
LT1964ES5-BYP#PBF-ND	200mA, Low Noise LDO Neg. Micropower Regulator* ***NEW!***	SOT-23-5	2.80	1.86	1.44
LT1964ES5-5-ND	200mA, 5V Low Noise LDO Neg. Micropower Regulator	SOT-23-5	2.80	1.86	1.44
LT1964ES5-5#PBF-ND	200mA, 5V Low Noise LDO Neg. Micropower Regulator* ***NEW!***	SOT-23-5	2.80	1.86	1.44
LT1976IFE-ND	HV 1.5A, 200KHz Step Down Switching Regulator	16-TSSOP	9.20	6.57	5.41
LT1976IFE#PBF-ND	HV 1.5A, 200KHz Step Down Switching Reg.* ***NEW!***	16-TSSOP	9.20	6.57	5.41
LT3010EMS8E-ND	50mA, 3V to 80V LDO Micropower Linear Regulator	8-MSOP	3.13	2.23	1.84
LT3010EMS8E#PBF-ND	50mA, 3V to 80V LDO Micropower Linear Reg.* ***NEW!***	8-MSOP	3.13	2.23	1.84
LT3023EDD-ND	DL 100mA, LDO Low Noise Micropower Regulator	10-DFN	3.40	2.43	2.00
LT3023EDD#PBF-ND	DL 100mA, LDO Low Noise Micropower Reg.* ***NEW!***	10-DFN	3.40	2.43	2.00
LT3023EMSE-ND	DL 100mA, LDO Low Noise Micropower Regulator	10-MSOP	3.20	2.29	1.88
LT3023EMSE#PBF-ND	DL 100mA, LDO Low Noise Micropower Reg.* ***NEW!***	10-MSOP	3.20	2.29	1.88
LT3150CGN-ND	Micropower Precision Triple Supply Monitor	SOT-23-5	7.40	5.67	4.67
LT3430EFE-ND	High Voltage, 3A, 200KHz Step Down Switching Reg.	16-TSSOP	9.90	7.07	5.82
LT3431EFE-ND	High Voltage, 3A, Step Down Switching Regulator	16-TSSOP	9.90	7.07	5.82
LT3431EFE#PBF-ND	High Voltage, 3A, Step Down Switching Reg.* ***NEW!***	16-TSSOP	9.90	7.07	5.82
LT3439EFE-ND	Ultralow Noise 1A Isolated DC/DC Transformer Driver	16-TSSOP	7.00	5.00	4.12
LT3439EFE#PBF-ND	Ultralow Noise 1A Isolated DC/DC Transformer Driver* ***NEW!***	16-TSSOP	7.00	5.00	4.12
LT3460ES5-ND	1.3MHz Step Up DC/DC Converter	TSOT-23-5	3.20	2.29	1.89
LT3460ES5#PBF-ND	1.3MHz Step Up DC/DC Converter* ***NEW!***	TSOT-23-5	3.20	2.29	1.89
LT3460ESC6-ND	1.3MHz Step Up DC/DC Converter	SC70-6	3.40	2.43	2.01
LT3461AES6-ND	3MHz Step Up DC/DC Converter	SOT-23-6	3.40	2.44	2.00
LT3461AES6#PBF-ND	3MHz Step Up DC/DC Converter* ***NEW!***	SOT-23-6	3.40	2.44	2.00
LT3461ES6-ND	1.3MHz Step Up DC/DC Converter	SOT-23-6	3.40	2.44	2.00
LT3461ES6#PBF-ND	1.3MHz Step Up DC/DC Converter* ***NEW!***	SOT-23-6	3.40	2.44	2.00
LT3464ETS8-ND	Micropower Boost Converter	SOT-23-8	3.20	2.29	1.89
LT3464ETS8#PBF-ND	Micropower Boost Converter* ***NEW!***	SOT-23-8	3.20	2.29	1.89
LT3467ES6-ND	1.1A Step Up DC/DC Converter	SOT-23-6	3.60	2.58	2.12
LT3483ES6-ND	Inverting Micropower DC/DC Converter	TSOT-23-6	4.20	2.79	2.24
LT3710EFE-ND	High Efficiency Step Down Switching Regulator	16-TSSOP	7.88	5.63	4.63
LT3710EFE#PBF-ND	High Efficiency Step Down Switching Regulator* ***NEW!***	16-TSSOP	7.88	5.63	4.63
LT3781IG-ND	Dual Transistor Synchronous Forward Controller	20-SSOP	11.00	7.86	6.47
LTC1142CG-ND	Dual Step Down Switching Regulator	28-SSOP	11.25	7.50	6.00
LTC1143LCS-ND	Dual Step Down Switching Regulator	16-SOIC	8.25	5.48	4.60

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1143LCS#PBF-ND	Dual Step Down Switching Regulator* ***NEW!***	16-SOIC	8.25	5.35	4.60
LTC1143LCS-ADJ-ND	Dual Step Down Switching Regulator	16-SOIC	8.25	5.48	4.40
LTC1147CN8-5-ND	5V, High Efficiency Step Down Regulator	8-Dip	5.13	3.41	2.65
LTC1147CS8-3.3-ND	3.3V, High Efficiency Step Down Regulator	8-SOIC	5.38	3.57	2.80
LTC1147CS8-3.3#PBF-ND	3.3V, High Efficiency Step Down Regulator* ***NEW!***	8-SOIC	5.38	3.57	2.80
LTC1147CS8-5-ND	5V, High Efficiency Step Down Regulator	8-SOIC	5.38	3.57	2.80
LTC1147CS8-5#PBF-ND	5V, High Efficiency Step Down Regulator* ***NEW!***	8-SOIC	5.38	3.57	2.80
LTC1147LCS8-ND	High Efficiency Step Down Regulator	8-SOIC	6.00	3.99	3.15
LTC1147LCS8#PBF-ND	High Efficiency Step Down Regulator* ***NEW!***	8-SOIC	6.00	3.99	3.15
LTC1147LIS8-ND	High Efficiency Step Down Regulator	8-SOIC	6.63	4.40	3.40
LTC1148CN-ND	High Efficiency Sync. Step Down Regulator	14-Dip	7.88	5.25	4.50
LTC1148CN#PBF-ND	High Efficiency Sync. Step Down Regulator* ***NEW!***	14-Dip	7.88	5.25	4.50
LTC1148CS-ND	High Efficiency Sync. Step Down Regulator	14-SOIC	8.13	5.40	4.60
LTC1148CS#PBF-ND	High Efficiency Sync. Step Down Regulator* ***NEW!***	14-SOIC	8.13	5.40	4.60
LTC1148CS-3.3-ND	3.3V, High Efficiency Sync. Step Down Regulator	14-SOIC	8.13	5.40	4.60
LTC1148CS-5-ND	5V, High Efficiency Sync. Step Down Regulator	14-SOIC	8.13	5.40	4.60
LTC1148CS-5#PBF-ND	5V, High Efficiency Sync. Step Down Regulator* ***NEW!***	14-SOIC	8.13	5.40	4.60
LTC1148HVCS-ND	High Efficiency Sync. Step Down Regulator	14-SOIC	8.50	5.65	4.80
LTC1148HVCS#PBF-ND	High Efficiency Sync. Step Down Regulator* ***NEW!***	14-SOIC	8.50	5.65	4.80
LTC1148HVCS-5-ND	5V, High Efficiency Sync. Step Down Regulator	14-SOIC	8.50	5.65	4.80
LTC1148LCS-3.3-ND	3.3V, High Efficiency Sync. Step Down Regulator	14-SOIC	8.75	5.85	4.90
LTC1148LCS-3.3#PBF-ND	3.3V, High Efficiency Sync. Step Down Regulator* ***NEW!***	14-SOIC	8.75	5.85	4.90
LTC1149CN-ND	High Efficiency Sync. Step Down Regulator	16-Dip	9.63	6.40	5.50
LTC1149CN#PBF-ND	High Efficiency Sync. Step Down Regulator* ***NEW!***	16-Dip	9.63	6.40	5.50
LTC1149CN-5-ND	5V, High Efficiency Sync. Step Down Regulator	16-Dip	9.63	6.40	5.50
LTC1149CS-ND	High Efficiency Sync. Step Down Regulator	16-SOIC	10.00	6.64	5.00
LTC1149CS#PBF-ND	High Efficiency Sync. Step Down Regulator* ***NEW!***	16-SOIC	10.00	6.64	4.75
LTC1149CS-3.3-ND	3.3V, High Efficiency Sync. Step Down Regulator	16-SOIC	10.00	6.64	5.00
LTC1159CS-ND	High Efficiency Sync. Step Down Switch Regulator	16-SOIC	9.00	6.00	4.90
LTC1159CS#PBF-ND	High Efficiency Sync. Step Down Switch Reg.* ***NEW!***	16-SOIC	9.00	6.00	4.90
LTC1159CS-3.3-ND	3.3V, High Effic. Sync. Step Down Switch Regulator	16-SOIC	9.00	6.00	4.90
LTC1174CN8-ND	Adj., Step Down and Inverting DC/DC Converter	8-Dip	6.50	4.35	3.60
LTC1174CN8#PBF-ND	Adj., Step Down and Inverting DC/DC Converter* ***NEW!***	8-Dip	6.50	4.35	3.60
LTC1174CN8-5-ND	5V, Step Down and Inverting DC/DC Converter	8-Dip	6.50	4.35	3.60
LTC1174CS8-ND	Adj., Step Down and Inverting DC/DC Converter	8-SOIC	6.88	4.60	3.80
LTC1174CS8#PBF-ND	Adj., Step Down and Inverting DC/DC Converter* ***NEW!***	8-SOIC	6.88	4.60	3.80
LTC1174CS8-3.3-ND	3.3V, Step Down and Inverting DC/DC Converter	8-SOIC	6.88	4.60	3.80
LTC1174CS8-3.3#PBF-ND	3.3V, Step Down and Inverting DC/DC Converter* ***NEW!***	8-SOIC	6.88	4.60	3.80
LTC1174CS8-5-ND	5V, Step Down and Inverting DC/DC Converter	8-SOIC	6.88	4.60	3.80
LTC1174CS8-5#PBF-ND	5V, Step Down and Inverting DC/DC Converter* ***NEW!***	8-SOIC	6.88	4.60	3.80
LTC1174HVCN8-ND	Adj., Step Down and Inverting DC/DC Converter	8-Dip	7.50	5.00	4.10
LTC1174HVCS8-ND	Adj., Step Down and Inverting DC/DC Converter	8-SOIC	7.88	5.25	4.25
LTC1174HVCS8#PBF-ND	Adj., Step Down and Inverting DC/DC Converter* ***NEW!***	8-SOIC	7.88	5.25	4.25
LTC1174HVCS8-3.3-ND	3.3V, Step Down and Inverting DC/DC Converter	8-SOIC	7.88	5.25	4.25
LTC1174HVCS8-3.3#PBF-ND	3.3V, Step Down and Inverting DC/DC Converter* ***NEW!***	8-SOIC	7.88	5.25	4.25
LTC1174HVCS8-5-ND	5V, Step Down and Inverting DC/DC Converter	8-SOIC	7.88	5.25	4.25
LTC1174HVCS8-5#PBF-ND	5V, Step Down and Inverting DC/DC Converter* ***NEW!***	8-SOIC	7.88	5.25	4.25
LTC1174IN8-ND	Adj., Step Down/Inverting DC/DC Converter, Ind. Temp.	8-Dip	7.50	5.00	4.00
LTC1263CS8-ND	12V, 60mA Flash Memory DC/DC Converter	8-SOIC	7.00	4.65	3.50
LTC1263CS8#PBF-ND	12V, 60mA Flash Memory DC/DC Converter* ***NEW!***	8-SOIC	7.00	4.65	3.50
LTC1265CS-ND	Adj., 1.2A High Effic., Step Down DC/DC Converter	14-SOIC	6.88	4.60	3.95
LTC1265CS#PBF-ND	Adj., 1.2A High Effic., Step Down DC/DC Conv.* ***NEW!***	14-SOIC	6.88	4.60	3.95
LTC1430ACGN#PBF-ND	Step Down Switching Regulator Controller* ***NEW!***	16-SSOP	7.75	5.15	3.98
LTC1430ACS-ND	Step Down Switching Regulator Controller	16-SOIC	7.13	4.74	3.59
LTC1430ACS8-ND	Step Down Switching Regulator Controller	8-SOIC	6.25	4.15	3.13
LTC1430CS-ND	Step Down Switching Regulator Controller	16-SOIC	7.13	4.74	3.88
LTC1430IS-ND	Step Down Switching Regulator Controller	16-SOIC	8.88	5.90	5.15
LTC1430IS#PBF-ND	Step Down Switching Regulator Controller* ***NEW!***	16-SOIC	8.88	6.79	5.59
LTC1433CGN-ND	Current Mode Step Down DC/DC Converter	16-SSOP	7.38	4.90	3.95
LTC1435ACS-ND	Low Noise Sync. Step Down Switching Regulator	16-SOIC	8.38	5.57	4.80
LTC1435ACS#PBF-ND	Low Noise Sync. Step Down Switching Regulator* ***NEW!***	16-SOIC	8.38	5.57	4.80
LTC1435AIS-ND	Low Noise Sync. Step Down Switching Regulator	16-SOIC	10.50	6.98	6.00
LTC1435AIS#PBF-ND	Low Noise Sync. Step Down Switching Regulator* ***NEW!***	16-SOIC	10.50	6.98	6.00
LTC1435CG-ND	Low Noise Sync. Step Down Switching Regulator	16-SSOP	9.00	5.98	5.15
LTC1435CG#PBF-ND	Low Noise Sync. Step Down Switching Regulator* ***NEW!***	16-SSOP	9.00	5.98	5.15
LTC1435CS-ND	Low Noise Sync. Step Down Switching Regulator	16-SOIC	8.38	5.57	4.23
LTC1435IS-ND	Low Noise Sync. Step Down Switching Regulator	16-SOIC	10.50	6.98	6.00
LTC1436ACGN-PLL-ND	Low Noise Sync. Step Down Switching Regulator	24-SSOP	10.00	6.64	5.70
LTC1436ACGN-PLL#PBF-ND	Low Noise Sync. Step Down Switching Regulator* ***NEW!***	24-SSOP	10.00	6.64	5.70
LTC1436AIGN-PLL#PBF-ND	Low Noise Sync. Step Down Switching Regulator* ***NEW!***	24-SSOP	12.50	8.30	6.65
LTC1438CG-ADJ-ND	Dual, Sync. Step Down Switching Regulator	28-SSOP	14.00	9.30	7.50
LTC1438CG-ADJ#PBF-ND	Dual, Sync. Step Down Switching Regulator* ***NEW!***	28-SSOP	14.00	9.30	7.50
LTC1438IG-ADJ-ND	Dual, Sync. Step Down Switching Regulator	28-SSOP	16.88	11.21	9.00
LTC1439CG-ND	Dual, Sync. Step Down Switching Regulator	36 SSOP	15.38	10.21	8.75
LTC1474CMS8-ND	Adj. High Efficiency, Step Down DC/DC Converter	8-MSOP	7.50	4.98	4.00
LTC1474CMS8#PBF-ND	Adj. High Efficiency, Step Down DC/DC Converter* ***NEW!***	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-3.3-ND	3.3V, High Efficiency, Step Down DC/DC Converter	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-3.3#PBF-ND	3.3V, High Efficiency, Step Down DC/DC Converter* ***NEW!***	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-5-ND	5V, High Efficiency, Step Down DC/DC Converter	8-MSOP	7.50	4.98	4.00
LTC1474CMS8-5#PBF-ND	5V, High Efficiency, Step Down DC/DC Converter* ***NEW!***	8-MSOP	7.50	4.98	4.00
LTC1474CS8-ND	Adj. High Efficiency, Step Down DC/DC Converter	8-SOIC	6.88	4.57	3.65
LTC1474CS8#PBF-ND	Adj. High Efficiency, Step Down DC/DC Converter* ***NEW!***	8-SOIC	6.88	4.57	3.65
LTC1474CS8-3.3-ND	3.3V, High Efficiency, Step Down DC/DC Converter	8-SOIC	6.88	4.57	3.65
LTC1474CS8-3.3#PBF-ND	3.3V, High Efficiency, Step Down DC/DC Converter* ***NEW!***	8-SOIC	6.88	4.57	3.65
LTC1474CS8-5-ND	5V, High Efficiency, Step Down DC/DC Converter	8-SOIC	6.88	4.57	3.65
LTC1474CS8-5#PBF-ND	5V, High Efficiency, Step Down DC/DC Converter* ***NEW!***	8-SOIC	6.88	4.57	3.65
LTC1474IS8-ND	Adj. High Efficiency, Step Down DC/DC Converter	8-SOIC	8.25	5.48	4.40
LTC1474IS8-3.3-ND	3.3V, High Efficiency, Step Down DC/DC Converter	8-SOIC	8.25	5.48	4.40
LTC1474IS8-3.3#PBF-ND	3.3V, High Efficiency, Step Down DC/DC Converter* ***NEW!***	8-SOIC	8.25	5.48	4.40
LTC1474IS8-5-ND	5V, High Efficiency, Step Down DC/DC Converter	8-SOIC	8.25	5.48	4.40
LTC1474IS8-5#PBF-ND	5V, High Efficiency, Step Down DC/DC Converter* ***NEW!***	8-SOIC	8.25	5.48	4.40
LTC1475CS8-5-ND	5V, High Efficiency, Step Down DC/DC Converter	8-SOIC	7.13	4.74	3.80
LTC1475CS8-5#PBF-ND	5V, High Efficiency, Step Down DC/DC Converter* ***NEW!***	8-SOIC	7.13	4.74	3.80

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1475IS8-ND	Adj. High Efficiency, Step Down DC/DC Converter	8-SOIC	8.50	5.65	4.85
LTC1504ACS8-ND	Adj. Step Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1504ACS8-3.3-ND	3.3V Step Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1504CS8#PBF-ND	Adj. Step Down Synchronous Switching Regulator* ***NEW!***	8-SOIC	5.13	3.41	2.57
LTC1504CS8-3.3-ND	3.3V, Step Down Synchronous Switching Regulator	8-SOIC	5.13	3.41	2.57
LTC1530CS8-ND	Adj. Synchronous Switching Regulator Controller	8-SOIC	6.25	4.15	3.15
LTC1530CS8#PBF-ND	Adj. Synchronous Switching Regulator Controller* ***NEW!***	8-SOIC	6.25	4.15	3.15
LTC1530CS8-3.3-ND	3.3V Synchronous Switching Regulator Controller	8-SOIC	6.25	4.15	3.15
LTC1574CS-ND	Adjustable CMOS Step Down, DC/DC Converter	16-SOIC	8.50	5.65	4.85
LTC1574CS#PBF-ND	Adjustable CMOS Step Down, DC/DC Converter* ***NEW!***	16-SOIC	8.50	5.65	4.85
LTC1574CS-5-ND	5V, CMOS Step Down, DC/DC Converter	16-SOIC	8.50	5.65	4.85
LTC1622CMS8-ND	Low Voltage, Step Down DC/DC Controller	8-MSOP	4.38	2.91	2.19
LTC1622CMS8#PBF-ND	Low Voltage, Step Down DC/DC Controller* ***NEW!***	8-MSOP	4.38	2.91	2.19
LTC1622CS8-ND	Low Voltage, Step Down DC/DC Controller	8-SOIC	3.88	2.58	1.94
LTC1622CS8#PBF-ND	Low Voltage, Step Down DC/DC Controller* ***NEW!***	8-SOIC	3.88	2.58	1.94
LTC1624CS8-ND	High Efficiency N-Channel Switching Regulator Controller	8-SOIC	7.13	4.74	3.75
LTC1624CS8#PBF-ND	High Efficiency N-Channel Switching Regulator Controller* ***NEW!***	8-SOIC	7.13	4.74	3.75
LTC1624IS8-ND	High Efficiency N-Channel Switching Regulator Controller	8-SOIC	8.88	5.90	4.80
LTC1624IS8#PBF-ND	High Efficiency N-Channel Switching Regulator Controller* ***NEW!***	8-SOIC	8.88	5.90	4.80
LTC1625CS-ND	No Rsense Sync. Step Down Switching Regulator	16-SOIC	9.13	6.06	4.85
LTC1625CS#PBF-ND	No Rsense Sync. Step Down Switching Regulator* ***NEW!***	16-SOIC	9.13	6.06	4.85
LTC1625IGN-ND	No Rsense Sync. Step Down Switching Regulator	16-SSOP	11.75	7.81	6.28
LTC1625IGN#PBF-ND	No Rsense Sync. Step Down Switching Regulator* ***NEW!***	16-SSOP	11.75	7.81	6.28
LTC1625IS-ND	No Rsense Sync. Step Down Switching Regulator	16-SOIC	11.00	7.31	5.85
LTC1625IS#PBF-ND	No Rsense Sync. Step Down Switching Regulator* ***NEW!***	16-SOIC	11.00	7.31	5.85
LTC1627CS8-ND	Mono Synchronous Step Down Switching Regulator	8-SOIC	4.38	2.91	2.19
LTC1627CS8#PBF-ND	Mono Synchronous Step Down Switching Regulator* ***NEW!***	8-SOIC	4.38	2.91	2.19
LTC1627IS8-ND	Mono Synchronous Step Down Switching Regulator	8-SOIC	6.50	4.32	3.25
LTC1627IS8#PBF-ND	Mono Synchronous Step Down Switching Regulator* ***NEW!***	8-SOIC	6.50	4.32	3.25
LTC1628CG-ND	Mono Step-Down Switching Regulator	28-SSOP	9.13	6.06	4.75
LTC1628CG#PBF-ND	Mono Step-Down Switching Regulator* ***NEW!***	28-SSOP	9.13	6.06	4.75
LTC1628CG-SYNC-ND	Mono Synchronous Step Down Switching Regulator	28-SSOP	9.50	6.31	4.90
LTC1628CG-SYNC#PBF-ND	Mono Synchronous Step Down Switching Regulator* ***NEW!***	28-SSOP	9.50	6.31	4.90
LTC1628CUH#PBF-ND	Mono Synchronous Step Down Switching Regulator* ***NEW!***	32-QFN	9.38	6.70	5.51
LTC1629IG-ND	Poly-Phase High Eff. Sync. Step Down Switching Reg.	28-SSOP	14.25	9.47	7.30
LTC1629IG#PBF-ND	Poly-Phase High Eff. Sync. Step Down Switching Reg* ***NEW!***	28-SSOP	14.25	9.47	7.30
LTC1649CS-ND	3.3V, Step Down Switching Regulator Controller	16-SOIC	8.38	5.57	4.20
LTC1649CS#PBF-ND	3.3V, Step Down Switching Regulator Controller* ***NEW!***	16-SOIC	8.38	5.57	4.20
LTC1698EGN-ND	Secondary Synchronous Rectifier Controller	16-SSOP	11.25	7.47	5.63
LTC1698EGN#PBF-ND	Secondary Synchronous Rectifier Controller* ***NEW!***	16-SSOP	11.25	7.47	5.63
LTC1698ES-ND	Secondary Synchronous Rectifier Controller	16-SOIC	11.38	7.56	5.69
LTC1700EMS-ND	Synchronous Step Up DC/DC Controller	10-MSOP	5.50	3.66	2.75
LTC1701BES5-ND	1MHz Step Down DC/DC Converter	SOT-23-5	3.85	2.56	2.21
LTC1701BES5#PBF-ND	1MHz Step Down DC/DC Converter* ***NEW!***	SOT-23-5	3.85	2.56	2.21
LTC1702CGN-ND	Dual 550KHz, Sync. Switch Regulator Controller	24-SSOP	9.88	6.56	4.95
LTC1702CGN#PBF-ND	Dual 550KHz, Sync. Switch Regulator Controller* ***NEW!***	24-SSOP	9.88	6.56	4.95
LTC1704EGN-ND	Dual, 550KHz, Sync. Switch Regulator Controller Plus Linear Regulator Controller	16-SSOP	8.25	5.89	4.85
LTC1704EGN#PBF-ND	Dual, 550KHz, Sync. Switch Regulator Controller Plus Linear Regulator Controller* ***NEW!***	16-SSOP	8.25	5.89	4.85
LTC1735CF-ND	High Efficiency Sync. Step Down Switching Regulator	20-TSSOP	7.00	4.65	3.50
LTC1735CF#PBF-ND	High Efficiency Sync. Step Down Switching Regulator* ***NEW!***	20-TSSOP	7.00	4.65	3.50
LTC1735CGN-ND	High Efficiency Sync. Step Down Switching Regulator	16-SSOP	6.88	4.57	3.44
LTC1735CGN#PBF-ND	High Efficiency Sync. Step Down Switching Regulator* ***NEW!***	16-SSOP	6.88	4.57	3.44
LTC1735CGN-1-ND	High Efficiency Sync. Step Down Switching Regulator	16-SSOP	6.88	4.57	3.44
LTC1735CGN-1#PBF-ND	High Efficiency Sync. Step Down Switching Regulator* ***NEW!***	16-SSOP	6.88	4.57	3.44
LTC1735CS-ND	High Efficiency Sync. Step Down Switching Regulator	16-SOIC	6.63	4.40	3.32
LTC1735CS#PBF-ND	High Efficiency Sync. Step Down Switching Regulator* ***NEW!***	16-SOIC	6.63	4.40	3.32
LTC1735IF-ND	High Efficiency Sync. Step Down Switching Regulator	20-TSSOP	9.13	6.52	5.37
LTC1735IGN-ND	High Efficiency Sync. Step Down Switching Regulator	16-SSOP	9.00	5.98	4.50
LTC1735IGN#PBF-ND	High Efficiency Sync. Step Down Switching Regulator* ***NEW!***	16-SSOP	9.00	5.98	4.50
LTC1735IS-ND	High Efficiency Sync. Step Down Switching Regulator	16-SOIC	8.63	5.73	4.35
LTC1735IS#PBF-ND	High Efficiency Sync. Step Down Switching Regulator* ***NEW!***	16-SOIC	8.63	5.73	4.35
LTC1772BES6-ND	Constant Frequency, Current Mode Step Down DC/DC Controller	SOT-23-6	3.98	2.64	1.99
LTC1772BES6#PBF-ND	Constant Frequency, Current Mode Step Down DC/DC Controller* ***NEW!***	SOT-23-6	3.98	2.64	1.99
LTC1772ES6-ND	Constant Frequency, Current Mode Step Down DC/DC Controller	SOT-23-6	3.98	2.64	1.99
LTC1772ES6#PBF-ND	Constant Frequency, Current Mode Step Down DC/DC Controller* ***NEW!***	SOT-23-6	3.98	2.64	1.99
LTC1778EGN-ND	Sync. Step Down Switching Regulator Controller	16-SSOP	5.75	3.82	2.88
LTC1778EGN#PBF-ND	Sync. Step Down Switching Regulator Controller* ***NEW!***	16-SSOP	5.75	3.82	2.88
LTC1778EGN-1-ND	Sync. Step Down Switching Regulator Controller	16-SSOP	5.75	3.82	2.88
LTC1778EGN-1#PBF-ND	Sync. Step Down Switching Regulator Controller* ***NEW!***	16-SSOP	5.75	3.82	2.88
LTC1779ES6-ND	250mA Step Down DC/DC Converter	SOT-23-6	3.88	2.58	2.01
LTC1779ES6#PBF-ND	250mA Step Down DC/DC Converter* ***NEW!***	SOT-23-6	3.88	2.58	2.01
LTC1844ES5-1.5-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.48	1.77	1.46
LTC1844ES5-1.5#PBF-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg* ***NEW!***	SOT-23-5	2.48	1.77	1.46

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1844ES5-1.8-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.48	1.77	1.46
LTC1844ES5-1.8#PBF-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg* ***NEW!***	SOT-23-5	2.48	1.77	1.46
LTC1844ES5-2.5-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.48	1.77	1.46
LTC1844ES5-2.5#PBF-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg* ***NEW!***	SOT-23-5	2.48	1.77	1.46
LTC1844ES5-2.8-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.48	1.77	1.46
LTC1844ES5-3.3-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.48	1.77	1.46
LTC1844ES5-3.3#PBF-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg* ***NEW!***	SOT-23-5	2.48	1.77	1.46
LTC1844ES5-BYP-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.48	1.77	1.46
LTC1844ES5-BYP#PBF-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg* ***NEW!***	SOT-23-5	2.48	1.77	1.46
LTC1844ES5-SD-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg.	SOT-23-5	2.48	1.77	1.46
LTC1844ES5-SD#PBF-ND	150mA, Micropower, Low Noise, VLDO™ Linear Reg* ***NEW!***	SOT-23-5	2.48	1.77	1.46
LTC1871EMS-ND	Current Mode Boost, Flyback, SEPIC Controller	10-MSOP	5.38	3.57	2.70
LTC1871EMS#PBF-ND	Current Mode Boost, Flyback, SEPIC Controller* ***NEW!***	10-MSOP	5.38	3.57	2.70
LTC1872BES6-ND	Constant Freq., Current Mode Step Up DC/DC Controller	SOT-23-6	3.85	2.56	2.01
LTC1872BES6#PBF-ND	Constant Freq., Current Mode Step Up DC/DC Controller* ***NEW!***	SOT-23-6	3.85	2.56	2.01
LTC1872ES6-ND	Constant Freq., Current Mode Step Up DC/DC Controller	SOT-23-6	3.85	2.56	2.01
LTC1872ES6#PBF-ND	Constant Freq., Current Mode Step Up DC/DC Controller* ***NEW!***	SOT-23-6	3.85	2.56	2.01
LTC1872ES6TR-ND	Constant Freq., Current Mode Step Up DC/DC Controller	SOT-23-6	5000.00/2,500		
LTC1874EGN-ND	Dual Constant Frequency, Current Mode Step Down DC/DC Controller	16-SSOP	6.75	4.49	3.38
LTC1874EGN#PBF-ND	Dual Constant Frequency, Current Mode Step Down DC/DC Controller* ***NEW!***	16-SSOP	6.75	4.49	3.38
LTC1875EGN-ND	1.5A Monolithic Sync. Step Down Regulator	16-SSOP	7.00	4.65	3.57
LTC1875EGN#PBF-ND	1.5A Monolithic Sync. Step Down Regulator* ***NEW!***	16-SSOP	7.00	4.65	3.57
LTC1877EMS8-ND	High Efficiency Monolithic Sync. Step Down Regulator	8-MSOP	6.13	4.07	3.07
LTC1877EMS8#PBF-ND	High Efficiency Monolithic Sync. Step Down Regulator* ***NEW!***	8-MSOP	6.13	4.07	3.07
LTC1878EMS8-ND	High Efficiency Monolithic Sync. Step Down Regulator	8-MSOP	5.50	3.66	2.80
LTC1878EMS8#PBF-ND	High Efficiency Monolithic Sync. Step Down Regulator* ***NEW!***	8-MSOP	5.50	3.66	2.80
LTC1879EGN-ND	1.2A Synchronous Step Down Regulator	16-SSOP	7.20	4.79	3.67
LTC1879EGN#PBF-ND	1.2A Synchronous Step Down Regulator* ***NEW!***	16-SSOP	7.20	4.79	3.67
LTC3400BES6-ND	600mA, 1.2MHz Micropower Sync. Boost Converter	SOT-23-6	3.98	2.85	2.34
LTC3400BES6#PBF-ND	600mA, 1.2MHz Micropower Sync. Boost Converter* ***NEW!***	SOT-23-6	3.98	2.85	2.34
LTC3401EMS-ND	1A, 3MHz, Sync. Boost Step Up DC/DC Converter	10-MSOP	5.50	3.66	2.75
LTC3401EMS#PBF-ND	1A, 3MHz, Sync. Boost Step Up DC/DC Converter* ***NEW!***	10-MSOP	5.50	3.66	2.75
LTC3400ES6-ND	600mA, 1.2MHz Micropower Sync. Boost Converter	SOT-23-6	3.98	2.64	2.05
LTC3400ES6#PBF-ND	600mA, 1.2MHz Micropower Sync. Boost Converter* ***NEW!***	SOT-23-6	3.98	2.64	2.05
LTC3404EMS8-ND	1.4MHz, Monolithic Sync. Step Down Regulator	8-MSOP	5.75	3.82	2.88
LTC3404EMS8#PBF-ND	1.4MHz, Monolithic Sync. Step Down Regulator* ***NEW!***	8-MSOP	5.75	3.82	2.88
LTC3405AES6-ND	1.5MHz, 300mA, Sync. Step Down Regulator	SOT-23-6	3.33	2.38	1.96
LTC3405AES6#PBF-ND	1.5MHz, 300mA, Sync. Step Down Regulator* ***NEW!***	SOT-23-6	3.33	2.38	1.96
LTC3405AES6-1.5-ND	1.5V, 1.5MHz, 300mA, Sync. Step Down Regulator	SOT-23-6	3.33	2.38	1.96
LTC3405AES6-1.5#PBF-ND	1.5V, 1.5MHz, 300mA, Sync. Step Down Regulator* ***NEW!***	SOT-23-6	3.33	2.38	1.96
LTC3405AES6-1.8-ND	1.8V, 1.5MHz, 300mA, Sync. Step Down Regulator	SOT-23-6	3.33	2.38	1.96
LTC3405AES6-1.8#PBF-ND	1.8V, 1.5MHz, 300mA, Sync. Step Down Regulator* ***NEW!***	SOT-23-6	3.33	2.38	1.96
LTC3405ES6-ND	1.5MHz, 300mA, High Eff. Sync. Step Down Regulator	SOT-23-6	3.33	2.21	1.70
LTC3405ES6#PBF-ND	1.5MHz, 300mA, High Eff. Sync. Step Down Regulator* ***NEW!***	SOT-23-6	3.33	2.21	1.70
LTC3406BES5-ND	1.5MHz, 600mA, Sync. Step Down Regulator	TSOT-23-5	4.00	2.87	2.35
LTC3406BES5#PBF-ND	1.5MHz, 600mA, Sync. Step Down Regulator* ***NEW!***	TSOT-23-5	4.00	2.87	2.35
LTC3406BES5-1.2-ND	1.5MHz, 600mA, Sync. Step Down Regulator	TSOT-23-5	4.00	2.87	2.35
LTC3406BES5-1.5-ND	1.5MHz, 600mA, Sync. Step Down Regulator	TSOT-23-5	4.00	2.87	2.35
LTC3406BES5-1.5#PBF-ND	1.5MHz, 600mA, Sync. Step Down Regulator* ***NEW!***	TSOT-23-5	4.00	2.87	2.35
LTC3406BES5-1.8-ND	1.5MHz, 600mA, Sync. Step Down Regulator	TSOT-23-5	4.00	2.87	2.35
LTC3406BES5-1.8#PBF-ND	1.5MHz, 600mA, Sync. Step Down Regulator* ***NEW!***	TSOT-23-5	4.00	2.87	2.35
LTC3406ES5-ND	Adj., 1.5MHz, 600mA, Sync. Step Down Regulator	TSOT-23-5	4.00	2.87	2.35
LTC3406ES5#PBF-ND	Adj., 1.5MHz, 600mA, Sync. Step Down Regulator* ***NEW!***	TSOT-23-5	4.00	2.87	2.35
LTC3406ES5-1.5-ND	1.5V, 1.5MHz, 600mA, Sync. Step Down Regulator	TSOT-23-5	4.00	2.87	2.35
LTC3406ES5-1.5#PBF-ND	1.5V, 1.5MHz, 600mA, Sync. Step Down Regulator* ***NEW!***	TSOT-23-5	4.00	2.87	2.35
LTC3406ES5-1.8-ND	1.8V, 1.5MHz, 600mA, Sync. Step Down Regulator	TSOT-23-5	4.00	2.87	2.35
LTC3406ES5-1.8#PBF-ND	1.8V, 1.5MHz, 600mA, Sync. Step Down Regulator* ***NEW!***	TSOT-23-5	4.00	2.87	2.35
LTC3411EDD-ND	1.25A, 4MHz, Sync. Step Down DC/DC Converter	10-DFN	6.40	4.58	3.77
LTC3411EDD#PBF-ND	1.25A, 4MHz, Sync. Step Down DC/DC Converter* ***NEW!***	10-DFN	6.40	4.25	3.20
LTC3412EFE-ND	2.5A, 4MHz, Mono Sync. Step Down Regulator	16-TSSOP	7.90	5.64	4.65
LTC3414EFE-ND	4A, 4MHz, Mono. Sync. Step Down Regulator	20-TSSOP	9.00	6.43	5.30
LTC3423EMS-ND	1A, Low Output Voltage, 3MHz Micropower Synchronous Boost DC/DC Converter	10-MSOP	5.50	3.66	2.75
LTC3424EMS-ND	2A, Low Output Voltage, 3MHz Micropower Synchronous Boost DC/DC Converter	10-MSOP	7.13	4.74	3.57
LTC3440EMS-ND	Micropower Sync. Buck-Boost DC/DC Converter	10-MSOP	5.83	3.87	2.92
LTC3440EMS#PBF-ND	Micropower Sync. Buck-Boost DC/DC Conv.* ***NEW!***	10-MSOP	5.83	3.87	2.92
LTC3447EDD-ND	High Efficiency Mono Sync. Current Mode Buck Regulator	10-DFN	3.90	2.79	2.29
LTC3448EDD-ND	1.5MHz/2.25MHz, 600mA Sync. Step Down Regulator	8-DFN	4.10	2.93	2.41
LTC3448EMS8E-ND	1.5MHz/2.25MHz, 600mA Sync. Step Down Regulator	8-MSOP	4.10	2.93	2.41
LTC3458EDE-ND	1.4A, 1.5MHz Sync. Step Up DC/DC Converter	12-DFN	6.60	4.39	3.52
LTC3458LEDE-ND	1.7A, 1.5MHz Sync. Step Up DC/DC Converter	12-DFN	6.60	3.93	3.52
LTC3525ESC6-3.3#PBF-ND	400mA Micropower Sync. Step Up DC/DC Conv.* ***NEW!***	SC70-6	3.60	2.58	2.12
LTC3525ESC6-5#PBF-ND	400mA Micropower Sync. Step Up DC/DC Conv.* ***NEW!***	SC70-6	3.60	2.58	2.12
LTC3700EMS-ND	Constant Freq. Step Down DC/DC Controller w/LDO Reg.	10-MSOP	4.63	3.30	2.72
LTC3701EGN-ND	2-Phase, Low In. Volt. Dual Step Down DC/DC Controller	16-SSOP	7.00	4.65	3.50
LTC3701EGN#PBF-ND	2-Phase, Low In. Volt. Dual Step Down DC/DC Controller* ***NEW!***	16-SSOP	7.00	4.65	3.50
LTC3704EMS-ND	Wide Input Range, Positive to Neg., DC/DC Controller	10-MSOP	3.75	2.68	2.21
LTC3704EMS#PBF-ND	Wide Input Range, Positive to Neg., DC/DC Controller* ***NEW!***	10-MSOP	3.75	2.68	2.21
LTC3713EG-ND	Low Input Voltage, High Power, Sync. DC/DC Controller	24-SSOP	8.38	5.57	4.19
LTC3713EG#PBF-ND	Low Input Voltage, High Power, Sync. DC/DC Controller* ***NEW!***	24-SSOP	8.38	5.57	4.19
LTC3717EGN-ND	Wide Operating Range, Synchronous Step Down Controller for DDR Memory Termination	16-SSOP	6.13	4.07	3.07
LTC3717EGN#PBF-ND	Wide Operating Range, Synchronous Step Down Controller for DDR Memory Termination* ***NEW!***	16-SSOP	6.13	4.07	3.07
LTC3717EUH-1-ND	Wide Operating Range, Synchronous Step Down Controller for DDR Memory Termination	32-QFN	6.63	4.73	3.90
LTC3717EUH-1#PBF-ND	Wide Operating Range, Synchronous Step Down Controller for DDR Memory Termination* ***NEW!***	32-QFN	6.63	4.73	3.90
LTC3718EG-ND	Low Input Voltage, DC/DC Controller	24-SSOP	6.88	4.91	4.04
LTC3722EGN-1-ND	Sync. Dual Mode Phase Modulated Full Bridge Controller	24-SSOP	11.00	7.86	6.47
LTC3722EGN-2-ND	Sync. Dual Mode Phase Modulated Full Bridge Controller	24-SSOP	11.00	7.86	6.47
LTC3727EG-ND	2-Phase, High Efficiency Sync. Step Down Switching Reg.	28-SSOP	10.25	6.81	5.13
LTC3727EG#PBF-ND	2-Phase, High Efficiency Sync. Step Down Switching Reg* ***NEW!***	28-SSOP	10.25	6.81	5.13
LTC3727EUH-1-ND	2-Phase, High Efficiency Sync. Step Down Switching Reg.	32-QFN	10.88	7.77	6.40
LTC3727EUH-1#PBF-ND	2-Phase, High Efficiency Sync. Step Down Switching Reg* ***NEW!***	32-QFN	10.88	7.77	6.40
LTC3728EG-ND	Dual, 550KHz, 2-Phase Sync. Step Down Switching Reg.	28-SSOP	10.25	6.81	5.13
LTC3728EG#PBF-ND	Dual, 550KHz, 2-Phase Sync. Step Down Switching Reg* ***NEW!***	28-SSOP	10.25	6.81	5.13
LTC3728EUH-ND	Dual, 550KHz, 2-Phase Sync. Step Down Switching Reg.	32-QFN	10.50	7.50	6.18
LTC3728EUH#PBF-ND	Dual, 550KHz, 2-Phase Sync. Step Down Switching Reg* ***NEW!***	32-QFN	10.50	7.50	6.18
LTC3729EG-ND	550KHz, PolyPhase, High Efficiency, Synchronous Step Down Switching Regulator	28-SSOP	11.88	7.89	5.94
LTC3729EG#PBF-ND	550KHz, PolyPhase, High Efficiency, Synchronous Step Down Switching Regulator* ***NEW!***	28-SSOP	11.88	7.89	5.94
LTC3729EUH-ND	550KHz, PolyPhase, High Efficiency, Synchronous Step Down Switching Regulator	32-QFN	12.13	8.66	7.13
LTC3729EUH#PBF-ND	550KHz, PolyPhase, High Efficiency, Synchronous Step Down Switching Regulator* ***NEW!***	32-QFN	12.13	8.66	7.13
LTC3732CG-ND	3-Phase, 5-Bit VID, 600KHz, Synchronous Buck Switching Regulator Controller	36-SSOP	8.75	5.81	4.63
LTC3732CG#PBF-ND	3-Phase, 5-Bit VID, 600KHz, Synchronous Buck Switching Regulator Controller* ***NEW!***	36-SSOP	8.75	5.81	4.63
LTC3778EF-ND	Wide Operating Range, Sync. Step Down Controller	20-TSSOP	7.13	4.74	3.57
LTC3778EF#PBF-ND	Wide Operating Range, Sync. Step Down Controller* ***NEW!***	20-TSSOP	7.13	4.74	3.57
LTC3780EG#PBF-ND	High Efficiency, Sync. 4-Switch Buck Boost Controller* ***NEW!***	24-SSOP	9.50	6.64	5.47
LTC3780EUH#PBF-ND	High Efficiency, Sync. 4-Switch Buck Boost Controller* ***NEW!***	32-QFN	9.50	6.64	5.47
LTC3780IG#PBF-ND	High Efficiency, Sync. 4-Switch Buck Boost Controller* ***NEW!***	24-SSOP	11.00	7.64	6.29
LTC3780IUH#PBF-ND	High Efficiency, Sync. 4-Switch Buck Boost Controller* ***NEW!***	32-QFN	11.00	7.64	6.29
LTC3803ES6-5-ND	Constant Freq. Current Mode Flyback DC/DC Controller	TSOT-23-6	2.90	1.93	1.55
LTC3809EDD#PBF-ND	No RSENSE™, Low EMI, Sync. DC/DC Controller* ***NEW!***	10-DFN	5.00	3.57	2.94
LTC3809EDD-1#PBF-ND	No RSENSE™, Low Input Voltage, Sync. DC/DC Controller* ***NEW!***	10-DFN	5.00	3.57	2.94
LTC3809EMSE#PBF-ND	No RSENSE™, Low EMI, Sync. DC/DC Controller* ***NEW!***	10-MSOP	5.00	3.57	2.94
LTC3809EMSE-1#PBF-ND	No RSENSE™, Low Input Voltage, Sync. DC/DC Controller* ***NEW!***	10-MSOP	5.00	3.57	2.94
LTC3830-1ES8-ND	HP Sync. Step Down DC/DC Controller	8-SOIC	6.25	4.15	3.13
LTC3830-1ES8#PBF-ND	HP Sync. Step Down DC/DC Controller* ***NEW!***	8-SOIC	6.25	4.15	3.13
LTC3830EGN-ND	HP Sync. Step Down DC/DC Controller	16-SSOP	7.75	5.15	3.88
LTC3830ES-ND	HP Sync. Step Down DC/DC Controller	16-SOIC	7.13	4.74	3.57
LTC3830ES#PBF-ND	HP Sync. Step Down DC/DC Controller* ***NEW!***	16-SOIC	7.13	4.74	3.57
LTC3830ES8-ND	HP Sync. Step Down DC/DC Controller	8-SOIC	6.25	4.15	3.13
LTC3831EGN-ND	HP Sync. Switching Regulator Controller	16-SSOP	6.00	3.99	3.00
LTC3832-1ES8-ND	HP Step Down Sync. DC/DC Controller	8-SOIC	5.88	4.20	3.46
LTC3832-1ES8#PBF-ND	HP Step Down Sync. DC/DC Controller* ***NEW!***	8-SOIC	5.88	4.20	3.46
LTC3832EGN-ND	HP Step Down Sync. DC/DC Controller	16-SSOP	6.25	4.46	3.68
LTC3832EGN#PBF-ND	HP Step Down Sync. DC/DC Controller* ***NEW!***	16-SSOP	6.25	4.46	3.68
LTM4600EV#PBF-ND	10A High Efficiency DC/DC µModule* ***NEW!***	104-LGA	35.50	25.36	20.89
LTM4600HVEV#PBF-ND	10A, 28VIN High Efficiency DC/DC µModule* ***NEW!***	104-LGA	41.88	29.91	24.64
LTM4600HVIV#PBF-ND	10A, 28VIN High Efficiency DC/DC µModule* ***NEW!***	104-LGA	47.88	34.20	28.17
LTM4600IV#PBF-ND	10A High Efficiency DC/DC µModule* ***NEW!***	104-LGA	40.63	29.02	23.90

Supervisors

Digi-Key Part No.	Description	Pkg.	1	25	100
LTC690CN8-ND	MPU Supervisor Reset Circuit and WDT	8-Dip	6.25	4.17	3.50
LTC690CN8#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	8-Dip	6.25	4.17	3.50
LTC690CS8-ND	MPU Supervisor Reset Circuit and WDT	8-SOIC	6.88	4.58	3.75
LTC690CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	8-SOIC	6.88	4.58	3.75
LTC691CN-ND	MPU Supervisor Reset Circuit and WDT	16-Dip	6.88	4.58	3.80
LTC691CN#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	16-Dip	6.88	4.58	3.80
LTC691CSW-ND	MPU Supervisor Reset Circuit and WDT	16-SOIC	7.50	5.00	4.15
LTC691CSW#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	16-SOIC	7.50	5.00	4.15
LTC692CN8-ND	MPU Supervisor Reset Circuit and WDT	8-Dip	6.25	4.17	3.50
LTC692CN8#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	8-Dip	6.25	4.17	3.50
LTC692CS8-ND	MPU Supervisor Reset Circuit and WDT	8-SOIC	6.88	4.58	3.75
LTC692CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	8-SOIC	6.88	4.58	3.75
LTC693CSW-ND	MPU Supervisor Reset Circuit and WDT	16-SOIC	7.50	5.00	4.15
LTC694CN8-ND	MPU Supervisor Reset Circuit and WDT	8-Dip	6.25	4.17	3.50
LTC694CN8#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	8-Dip	6.25	4.17	3.50
LTC694CS8-ND	MPU Supervisor Reset Circuit and WDT	8-SOIC	6.88	4.58	3.75
LTC694CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	8-SOIC	6.88	4.58	3.75
LTC694CS8-3.3-ND	3.3V MPU Supervisor Reset Circuit and WDT	8-SOIC	7.50	5.00	4.20
LTC694CS8-3.3#PBF-ND	3.3V MPU Supervisor Reset Circuit and WDT* ***NEW!***	8-SOIC	7.50	5.00	4.20
LTC695CN-ND	MPU Supervisor Reset Circuit and WDT	16-Dip	6.88	4.58	3.80
LTC695CN#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	16-Dip	6.88	4.58	3.80
LTC695CSW-ND	MPU Supervisor Reset Circuit and WDT	16-SOIC	7.50	5.00	4.15
LTC695CSW#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	16-SOIC	7.50	5.00	4.15
LTC695CSW-3.3-ND	3.3V MPU Supervisor Reset Circuit and WDT	16-SOIC	8.13	5.42	4.55
LTC695CSW-3.3#PBF-ND	3.3V MPU Supervisor Reset Circuit and WDT* ***NEW!***	16-SOIC	8.13	5.42	4.55
LTC699CN8-ND	MPU Supervisor Reset Circuit and WDT	8-Dip	4.63	3.08	2.47
LTC699CN8#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	8-Dip	4.63	3.08	2.47
LTC699CS8-ND	MPU Supervisor Reset Circuit and WDT	8-SOIC	5.00	3.33	2.67
LTC699CS8#PBF-ND	MPU Supervisor Reset Circuit and WDT* ***NEW!***	8-SOIC	5.00	3.33	2.67
LTC1232CS8-ND	Microprocessor Supervisory Circuit with WDT	8-SOIC	3.63	2.41	1.95

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1232CS8#PBF-ND	Microprocessor Supervisory Circuit with WDT* ***NEW!***	8-SOIC	3.63	2.41	1.95
LTC1235CN-ND	MPU Supervisor Circuit with Battery Backup and WDT	16-Dip	6.88	4.60	3.80
LTC1235CN#PBF-ND	MPU Supervisor Circuit with Battery Backup and WDT* ***NEW!***	16-Dip	6.88	4.60	3.80
LTC1235CSW-ND	MPU Supervisor Circuit with Battery Backup and WDT	16-SOIC	7.50	5.00	4.15
LTC1235CSW#PBF-ND	MPU Supervisor Circuit with Battery Backup and WDT* ***NEW!***	16-SOIC	7.50	5.00	4.15
LTC1326CMS8-ND	Micropower Precision Triple Supply Monitor	8-MSOP	4.63	3.08	2.45
LTC1326CMS8-2.5-ND	2.5V, Micropower Precision Triple Supply Monitor	8-MSOP	4.63	3.08	2.45
LTC1326CMS8-2.5#PBF-ND	2.5V, Micropower Precision Triple Supply Monitor* ***NEW!***	8-MSOP	4.63	3.08	2.45
LTC1326CS8-ND	Micropower Precision Triple Supply Monitor	8-SOIC	4.38	2.91	2.35
LTC1326CS8#PBF-ND	Micropower Precision Triple Supply Monitor* ***NEW!***	8-SOIC	4.38	2.91	2.35
LTC1326CS8-2.5-ND	2.5V, Micropower Precision Triple Supply Monitor	8-SOIC	4.38	2.91	2.35
LTC1326CS8-2.5#PBF-ND	2.5V, Micropower Precision Triple Supply Monitor* ***NEW!***	8-SOIC	4.38	2.91	2.35
LTC1536CMS8-ND	Triple Supply Monitor for PCI Applications	8-MSOP	5.88	3.91	3.35
LTC1536CS8-ND	Triple Supply Monitor for PCI Applications	8-SOIC	5.00	3.35	2.85
LTC1536CS8#PBF-ND	Triple Supply Monitor for PCI Applications* ***NEW!***	8-SOIC	5.00	3.35	2.85
LTC1728ES5-3.3-ND	3.3V Precision Triple Supply Monitor	SOT-23-5	2.98	1.98	1.51
LTC1728ES5-3.3#PBF-ND	3.3V Precision Triple Supply Monitor* ***NEW!***	SOT-23-5	2.98	1.98	1.51
LTC2900-1CDD-ND	Programmable Quad Supply Monitor	10-DFN	4.13	2.74	2.20
LTC2900-1CDD#PBF-ND	Programmable Quad Supply Monitor* ***NEW!***	10-DFN	4.13	2.74	2.20
LTC2900-1CMS-ND	Programmable Quad Supply Monitor	10-MSOP	3.63	2.41	2.00
LTC2900-1CMS#PBF-ND	Programmable Quad Supply Monitor* ***NEW!***	10-MSOP	3.63	2.41	2.00
LTC2900-2CDD-ND	Programmable Quad Supply Monitor	10-DFN	4.13	2.74	2.20
LTC2900-2CMS-ND	Programmable Quad Supply Monitor	10-MSOP	3.63	2.41	2.00
LTC2900-2CMS#PBF-ND	Programmable Quad Supply Monitor* ***NEW!***	10-MSOP	3.63	2.41	2.00
LTC2902-1CGN-ND	Programmable Quad Supply Monitor	16-SSOP	4.63	3.30	2.72
LTC2902-1CGN#PBF-ND	Programmable Quad Supply Monitor* ***NEW!***	16-SSOP	4.63	3.30	2.72
LTC2902-2CGN-ND	Programmable Quad Supply Monitor	16-SSOP	4.63	3.30	2.72
LTC2902-2CGN#PBF-ND	Programmable Quad Supply Monitor* ***NEW!***	16-SSOP	4.63	3.30	2.72
LTC2903CS6-A1#PBF-ND	Adjustable Precision Quad Supply Monitor* ***NEW!***	SOT-23-6	3.48	2.49	2.05
LTC2903CS6-B1-ND	Positive Precision Quad Supply Monitor	SOT-23-6	3.48	2.49	2.05
LTC2903CS6-B1#PBF-ND	Positive Precision Quad Supply Monitor* ***NEW!***	SOT-23-6	3.48	2.49	2.05
LTC2903CS6-C1-ND	Negative Precision Quad Supply Monitor	SOT-23-6	3.73	2.67	2.19

Power Controllers

Digi-Key Part No.	Description	Pkg.	1	25	100
LT1248CN-ND	Power Factor Correction Controller	16-Dip	6.88	4.58	3.65
LT1248CN#PBF-ND	Power Factor Correction Controller* ***NEW!***	16-Dip	6.88	4.58	3.65
LT1248CS-ND	Power Factor Correction Controller	16-SOIC	7.38	4.92	3.90
LT1248CS#PBF-ND	Power Factor Correction Controller* ***NEW!***	16-SOIC	7.38	4.92	3.90
LT1248IS-ND	Power Factor Correction Controller, Ind. Temp.	16-SOIC	8.63	5.75	4.65
LT1248IS#PBF-ND	Power Factor Correction Controller, Ind. Temp.* ***NEW!***	16-SOIC	8.63	5.75	4.65
LT1249CN8-ND	Power Factor Correction Controller	8-Dip	6.25	4.17	3.30
LT1249CN8#PBF-ND	Power Factor Correction Controller* ***NEW!***	8-Dip	6.25	4.17	3.30
LT1249CS8-ND	Power Factor Correction Controller	8-SOIC	6.75	4.50	3.55
LT1249CS8#PBF-ND	Power Factor Correction Controller* ***NEW!***	8-SOIC	6.75	4.50	3.55
LT1249IN8#PBF-ND	Power Factor Correction Controller* ***NEW!***	8-Dip	7.13	4.75	3.75
LT1249IS8-ND	Power Factor Correction Controller, Ind. Temp.	8-SOIC	7.75	5.15	3.88
LT1249IS8#PBF-ND	Power Factor Correction Controller, Ind. Temp.* ***NEW!***	8-SOIC	7.75	5.17	4.15
LT1508CSW-ND	Power Factor and PWM Controller	20-SOIC	7.88	5.25	4.50
LT1508ISW-ND	Power Factor and PWM Controller, Ind. Temp.	20-SOIC	8.75	5.85	5.00
LT3420EMS-ND	Photoflash Capacitor Charger with Automatic Refresh	10-MSOP	5.00	3.57	2.94
LT3420EMS#PBF-ND	Photoflash Capacitor Charger with Automatic Refresh* ***NEW!***	10-MSOP	5.00	3.57	2.94
LT3468ES5-ND	Photoflash Capacitance Charger	SOT-23-5	4.00	2.87	2.35
LT3468ES5#PBF-ND	Photoflash Capacitance Charger* ***NEW!***	SOT-23-5	4.00	2.87	2.35
LT3484EDCB-0#PBF-ND	Photoflash Capacitor Charger* ***NEW!***	6-DFN	4.40	3.15	2.59
LT3484EDCB-1#PBF-ND	Photoflash Capacitor Charger* ***NEW!***	6-DFN	4.40	3.15	2.59
LT3484EDCB-2#PBF-ND	Photoflash Capacitor Charger* ***NEW!***	6-DFN	4.40	3.15	2.59
LTC1473CGN-ND	Dual Power Path Switch Driver, .150 Wide Body	16-SSOP	7.13	4.74	3.80
LTC1473CGN#PBF-ND	Dual Power Path Switch Driver, .150 Wide Body* ***NEW!***	16-SSOP	7.13	4.74	3.80
LTC1473LCGN-ND	Dual Power Path Switch Driver, .150 Wide Body	16-SSOP	7.13	4.74	3.80
LTC1473LCGN#PBF-ND	Dual Power Path Switch Driver, .150 Wide Body* ***NEW!***	16-SSOP	7.13	4.74	3.80
LTC1479CG-ND	Power Path Controller for Dual Battery Systems	36-SSOP	15.00	9.96	7.75
LTC1479CG#PBF-ND	Power Path Controller for Dual Battery Systems* ***NEW!***	36-SSOP	15.00	9.96	7.75
LTC1479IG-ND	Power Path Controller for Dual Battery Systems	36-SSOP	17.25	11.46	8.63
LTC1479IG#PBF-ND	Power Path Controller for Dual Battery Systems*	36-SSOP	17.25	9.20	8.60
LTC1921CMS8-ND	Dual -48V Supply and Fuse Monitor	8-MSOP	5.00	3.40	2.90
LTC1921CMS8#PBF-ND	Dual -48V Supply and Fuse Monitor* ***NEW!***	8-MSOP	5.00	3.40	2.90
LTC1921CS8-ND	Dual -48V Supply and Fuse Monitor	8-SOIC	5.25	3.75	3.15
LTC1921IS8-ND	Dual -48V Supply and Fuse Monitor	8-SOIC	6.63	4.40	3.80
LTC1921IS8#PBF-ND	Dual -48V Supply and Fuse Monitor* ***NEW!***	8-SOIC	6.63	4.40	3.80
LTC1966CMS8-ND	Precision Micropower RMS/DC Converter	8-MSOP	5.88	3.91	3.60
LTC1966CMS8#PBF-ND	Precision Micropower RMS/DC Converter*	8-MSOP	5.88	3.91	3.60
LTC2920-1CS5-ND	Power Supply Margining Controller	SOT-23-5	2.60	1.73	1.41
LTC2920-1CS5#PBF-ND	Power Supply Margining Controller* ***NEW!***	SOT-23-5	2.60	1.73	1.41
LTC2920-2CMS8#PBF-ND	Dual, Power Supply Margining Controller* ***NEW!***	8-MSOP	3.50	2.33	1.90
LTC2927CDDB#PBF-ND	Single Power Supply Tracking Controller* ***NEW!***	8-DFN	3.23	2.30	1.90
LTC2927CTS8#PBF-ND	Single Power Supply Tracking Controller* ***NEW!***	TSOT-23-8	3.23	2.30	1.90
LTC2927IDDB#PBF-ND	Single Power Supply Tracking Controller* ***NEW!***	8-DFN	3.83	2.73	2.26
LTC2927ITS8#PBF-ND	Single Power Supply Tracking Controller* ***NEW!***	TSOT-23-8	3.83	2.73	2.26
LTC3731CG-ND	3-Phase, 600KHz, Sync. Buck Switching Reg. Controller	36-SSOP	8.63	6.16	5.07
LTC3731CUH-ND	3-Phase, 600KHz, Sync. Buck Switching Reg. Controller	32-QFN	9.13	6.52	5.37
LTC3731CUH#PBF-ND	3-Phase, 600KHz, Sync. Buck Switching Reg. Controller* ***NEW!***	32-QFN	9.13	6.52	5.37
LTC4257CS8-ND	IEEE 802.3af PD Power Over Ethernet Interface Controller	8-SOIC	3.25	2.32	1.91
LTC4257CS8#PBF-ND	IEEE 802.3af PD Power Over Ethernet Interface Controller* ***NEW!***	8-SOIC	3.25	2.32	1.91
LTC4350CGN-ND	Hot Swap Load Share Controller	16-SSOP	8.75	5.83	4.65
LTC4412ES6-ND	Low Loss PowerPath Controller	SOT-23-6	2.73	1.96	1.60
LTC4412ES6#PBF-ND	Low Loss PowerPath Controller* ***NEW!***	SOT-23-6	2.73	1.94	1.59

Charge Pump

Digi-Key Part No.	Description	Pkg.	1	25	100
LT1026CN8-ND	Switched Capacitor Voltage Converter	8-Dip	3.75	2.50	2.10
LT1026CN8#PBF-ND	Switched Capacitor Voltage Converter* ***NEW!***	8-Dip	3.75	2.50	2.10
LT1026CS8-ND	Switched Capacitor Voltage Converter	8-SOIC	4.25	2.83	2.30
LT1026CS8#PBF-ND	Switched Capacitor Voltage Converter* ***NEW!***	8-SOIC	4.25	2.83	2.30
LT1026IS8-ND	Switched Capacitor Voltage Converter	8-SOIC	5.38	3.57	2.90
LT1054CN8-ND	Switched Capacitor Voltage Converter with Regulator	8-Dip	4.88	3.25	2.80
LT1054CN8#PBF-ND	Switched Capacitor Voltage Converter with Reg.* ***NEW!***	8-Dip	4.88	3.25	2.80
LT1054CSW-ND	Switched Capacitor Voltage Converter with Regulator	16-SOIC	6.00	4.00	3.25
LT1054CSW#PBF-ND	Switched Capacitor Voltage Converter with Reg.* ***NEW!***	16-SOIC	6.00	4.00	3.25
LT1054CS8-ND	Switched Capacitor Voltage Converter with Regulator	8-SOIC	6.00	3.99	3.00
LT1054CS8#PBF-ND	Switched Capacitor Voltage Converter with Regulator*	8-SOIC	6.00	3.99	3.00
LT1054IN8-ND	Switched Capacitor Voltage Conv. with Reg., Ind. Temp.	8-Dip	7.13	4.75	3.95
LT1054IN8#PBF-ND	Switched Capacitor Voltage Conv. with Reg., Ind. Temp.* ***NEW!***	8-Dip	7.13	4.75	3.95
LT1054ISW-ND	Switched Capacitor Voltage Conv. with Reg., Ind. Temp.	16-SOIC	8.63	5.75	4.85
LT1054ISW#PBF-ND	Switched Capacitor Voltage Conv. with Reg., Ind. Temp.* ***NEW!***	16-SOIC	8.63	5.75	4.85
LT1054IS8-ND	Switched Capacitor Voltage Conv. with Reg., Ind. Temp.	8-SOIC	8.63	5.75	4.65
LT1054IS8#PBF-ND	Switched Capacitor Voltage Conv. with Reg., Ind. Temp.* ***NEW!***	8-SOIC	8.63	5.75	4.65
LT1054LCS8-ND	Switched Capacitor Voltage Conv. with Reg., Ind. Temp.	8-SOIC	4.25	2.83	2.15
LT1054LCS8#PBF-ND	Switched Capacitor Voltage Conv. with Reg., Ind. Temp.* ***NEW!***	8-SOIC	4.25	2.83	2.15
LT3465AES6-ND	2.4MHz White LED Step Up Converter	SOT-23-6	2.90	2.07	1.71
LT3465AES6#PBF-ND	2.4MHz White LED Step Up Converter* ***NEW!***	SOT-23-6	2.90	2.07	1.71
LT3465ES6-ND	White LED Step Up Converter	SOT-23-6	2.90	2.07	1.71
LT3465ES6#PBF-ND	White LED Step Up Converter* ***NEW!***	SOT-23-6	2.90	2.07	1.71
LTC660CN8-ND	100mA, CMOS Switched Capacitor Converter	8-Dip	5.00	3.33	2.85
LTC660CS8-ND	100mA, CMOS Switched Capacitor Converter	8-SOIC	5.50	3.67	3.14
LTC660CS8#PBF-ND	100mA, CMOS Switched Capacitor Converter* ***NEW!***	8-SOIC	5.50	3.67	3.14
LTC1044CN8-ND	CMOS Switched-Cap Voltage Converter	8-Dip	3.13	2.08	1.75
LTC1044CN8#PBF-ND	CMOS Switched-Cap Voltage Converter* ***NEW!***	8-Dip	3.13	2.08	1.75
LTC1044CS8-ND	CMOS Switched-Cap Voltage Converter	8-SOIC	4.13	2.75	2.35
LTC1044CS8#PBF-ND	CMOS Switched-Cap Voltage Converter* ***NEW!***	8-SOIC	4.13	2.75	2.35
LTC1046CN8-ND	50mA, CMOS Switched-Cap Voltage Converter	8-Dip	4.00	2.70	2.25
LTC1046CN8#PBF-ND	50mA, CMOS Switched-Cap Voltage Converter* ***NEW!***	8-Dip	4.00	2.70	2.25
LTC1046CS8-ND	50mA, CMOS Switched-Cap Voltage Converter	8-SOIC	5.25	3.50	3.00
LTC1046CS8#PBF-ND	50mA, CMOS Switched-Cap Voltage Converter* ***NEW!***	8-SOIC	5.25	3.50	3.00
LTC1046IS8-ND	50mA, CMOS Switched-Cap Voltage Converter	8-SOIC	6.50	4.33	3.70
LTC1046IS8#PBF-ND	50mA, CMOS Switched-Cap Voltage Converter* ***NEW!***	8-SOIC	6.50	4.33	3.70
LTC1144CN8-ND	Switched-Capacitor Voltage Converter with Shutdown	8-Dip	4.50	3.00	2.50
LTC1144CN8#PBF-ND	Switched-Capacitor Voltage Conv. with Shutdown* ***NEW!***	8-Dip	4.50	3.00	2.50
LTC1144CS8-ND	Switched-Capacitor Voltage Converter with Shutdown	8-SOIC	4.63	3.10	2.55
LTC1144CS8#PBF-ND	Switched-Capacitor Voltage Conv. with Shutdown* ***NEW!***	8-SOIC	4.63	3.10	2.55
LTC1144IS8-ND	Switched-Capacitor Voltage Converter with Shutdown	8-SOIC	5.38	3.57	2.95
LTC1144IS8#PBF-ND	Switched-Capacitor Voltage Conv. with Shutdown* ***NEW!***	8-SOIC	5.38	3.55	2.95
LTC1261CS-ND	Adj., Switched-Capacitor Voltage Inverter	14-SOIC	4.50	3.00	2.60
LTC1261CS#PBF-ND	Adj., Switched-Capacitor Voltage Inverter* ***NEW!***	14-SOIC	4.50	3.00	2.60
LTC1261CS8-4-ND	4V, Switched-Capacitor Voltage Inverter	8-SOIC	3.75	2.49	1.90
LTC1261CS8-4#PBF-ND	4V, Switched-Capacitor Voltage Inverter* ***NEW!***	8-SOIC	3.75	2.49	1.90
LTC1261LCMS8-ND	Adj., Switched-Capacitor Voltage Inverter	8-MSOP	4.00	2.66	2.00
LTC1261LCMS8#PBF-ND	Adj., Switched-Capacitor Voltage Inverter* ***NEW!***	8-MSOP	4.00	2.66	2.00
LTC1261LCS8-ND	Adj., Switched-Capacitor Voltage Inverter	8-SOIC	3.63	2.41	1.82
LTC1261LCS8#PBF-ND	Adj., Switched-Capacitor Voltage Inverter* ***NEW!***	8-SOIC	3.63	2.41	1.82
LTC1262CN8-ND	12V, 30mA, Flash Memory DC/DC Converter	8-Dip	4.50	3.00	2.45
LTC1262CN8#PBF-ND	12V, 30mA, Flash Memory DC/DC Converter* ***NEW!***	8-Dip	4.50	3.00	2.45
LTC1262CS8-ND	12V, 30mA, Flash Memory DC/DC Converter	8-SOIC	4.63	3.08	2.32
LTC1262CS8#PBF-ND	12V, 30mA, Flash Memory DC/DC Converter* ***NEW!***	8-SOIC	4.63	3.08	2.32
LTC1262IS8-ND	12V, 30mA, Flash Memory DC/DC Converter	8-SOIC	5.75	3.82	2.88
LTC1262IS8#PBF-ND	12V, 30mA, Flash Memory DC/DC Converter* ***NEW!***	8-SOIC	5.75	3.82	2.88
LTC1502CMS8-3.3-ND	Single Cell to 3.3V Reg. Charge Pump DC/DC Converter	8-MSOP	4.13	2.74	2.07
LTC1502CS8-3.3-ND	Single Cell to 3.3V Reg. Charge Pump DC/DC Converter	8-SOIC	3.75	2.49	1.90
LTC1503CS8-1.8-ND	1.8V Inductorless Step Down DC/DC Converter	8-SOIC	3.63	2.41	1.82
LTC1503CS8-1.8#PBF-ND	1.8V Inductorless Step Down DC/DC Converter* ***NEW!***	8-SOIC	3.63	2.41	1.82
LTC1503CS8-2-ND	2V Inductorless Step Down DC/DC Converter	8-SOIC	3.63	2.41	1.82
LTC1514CS8-3.3-ND	3.3V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	6.50	4.35	3.70
LTC1514CS8-5-ND	5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	6.50	4.35	3.70
LTC1514CS8-5#PBF-ND	5V, Step Up/Down Switch-Cap DC/DC Converter* ***NEW!***	8-SOIC	6.50	4.35	3.70
LTC1514IS8-3.3-ND	3.3V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1514IS8-5-ND	5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1515CS8-3.3/5-ND	3.3V/5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	6.50	4.35	3.70
LTC1515CS8-3/5-ND	3V/5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	6.50	4.35	3.70
LTC1515IS8-ND	Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1515IS8#PBF-ND	Step Up/Down Switch-Cap DC/DC Converter* ***NEW!***	8-SOIC	7.88	5.25	4.50
LTC1515IS8-3.3/5-ND	3.3V/5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1515IS8-3/5-ND	3V/5V, Step Up/Down Switch-Cap DC/DC Converter	8-SOIC	7.88	5.25	4.50
LTC1516CS8-ND	Regulated 5V Charge Pump DC/DC Converter	8-SOIC	6.25	4.15	3.55
LTC1516CS8#PBF-ND	Regulated 5V Charge Pump DC/DC Converter* ***NEW!***	8-SOIC	6.25	4.15	3.55
LTC1517CS5-3.3-ND	Regulated 3.3V Charge Pump DC/DC Converter	SOT-23-5	3.85	2.57	2.21
LTC1517CS5-5-ND	Regulated 5V Charge Pump DC/DC Converter	SOT-23-5	3.85	2.57	2.21
LTC1517CS5-5#PBF-ND	Regulated 5V Charge Pump DC/DC Converter* ***NEW!***	SOT-23-5	3.85	2.57	2.21
LTC1517ES5-3.3-ND	Regulated 3.3V Charge Pump DC/DC Converter	SOT-23-5	4.10	2.73	2.16
LTC1517ES5-3.3#PBF-ND	Regulated 3.3V Charge Pump DC/DC Converter* ***NEW!***	SOT-23-5	4.10	2.73	2.16
LTC1517ES5-5-ND	Regulated 5V Charge Pump DC/DC Converter	SOT-23-5	4.10	2.73	2.16
LTC1517ES5-5#PBF-ND	Regulated 5V Charge Pump DC/DC Converter* ***NEW!***	SOT-23-5	4.10	2.73	2.16
LTC1522CMS8-ND	Regulated 5V Charge Pump DC/DC Converter	8-MSOP	3.75	2.50	2.15
LTC1522CMS8#PBF-ND	Regulated 5V Charge Pump DC/DC Converter* ***NEW!***	8-MSOP	3.75	2.50	2.15
LTC1522CS8-ND	Regulated 5V Charge Pump DC/DC Converter	8-SOIC	3.25	2.16	1.85
LTC1550CGN-ND	Switched Capacitor-Regulated Voltage Inverter	16-SSOP	5.25	3.49	2.80
LTC1550LCGN-ND	Switched Capacitor-Regulated Voltage Inverter	16-SSOP	4.00	2.66	2.00
LTC1550LCMS8-ND	Switched Capacitor-Regulated Voltage Inverter	8-MSOP	4.00	2.66	2.00
LTC1550LCS8-ND	Switched Capacitor-Regulated Voltage Inverter	8-SOIC	3.63	2.41	1.82
LTC1551CS8-4.1-ND	4.1V Switched Capacitor-Regulated Voltage Inverter	8-SOIC	4.25	2.85	2.40
LTC1551LCMS8-ND	Switched Capacitor-Regulated Voltage Inverter	8-MSOP	4.00	2.66	2.00
LTC1551LCS8-ND	Switched Capacitor-Regulated Voltage Inverter	8-SOIC	3.63	2.41	1.82
LTC1682CS8-ND	Adj. Doubler Charge Pump with Low Noise Linear Reg.	8-SOIC	3.50	2.33	1.80
LTC1682CS8-5-ND	5V, Doubler Charge Pump with Low Noise Linear Reg.	8-SOIC	3.50	2.33	1.80
LTC1682CS8-5#PBF-ND	5V, Doubler Charge Pump with Low Noise Linear Reg* ***NEW!***	8-SOIC	3.50	2.33	1.80
LTC1751EMS8-ND	Micropower Regulated Charge Pump DC/DC Converter	8-MSOP	4.63	3.08	2.32
LTC1751EMS8#PBF-ND	Micropower Regulated Charge Pump DC/DC Converter* ***NEW!***	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-3.3-ND	Micropower Regulated Charge Pump DC/DC Converter	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-3.3#PBF-ND	Micropower Regulated Charge Pump DC/DC Converter* ***NEW!***	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-5-ND	Micropower Regulated Charge Pump DC/DC Converter	8-MSOP	4.63	3.08	2.32
LTC1751EMS8-5#PBF-ND	Micropower Regulated Charge Pump DC/DC Converter* ***NEW!***	8-MSOP	4.63	3.08	2.32
LTC1911EMS8-1.5-ND	1.5V Low Noise Step Down DC/DC Converter	8-MSOP	4.80	3.19	2.40
LTC1911EMS8-1.8-ND	1.8V Low Noise Step Down DC/DC Converter	8-MSOP	4.80	3.19	2.40
LTC1911EMS8-1.8#PBF-ND	1.8V Low Noise Step Down DC/DC Converter* ***NEW!***	8-MSOP	4.80	3.19	2.40
LTC1983ES6-3-ND	3V, 100mA Regulated Charge Pump Inverter	SOT-23-6	3.70	2.46	1.85
LTC1983ES6-3#PBF-ND	3V, 100mA Regulated Charge Pump Inverter* ***NEW!***	SOT-23-6	3.70	2.46	1.85
LTC1983ES6-5-ND	5V, 100mA, Regulated Charge Pump Inverter	SOT-23-6	3.70	2.46	1.85
LTC1983ES6-5#PBF-ND	5V, 100mA, Regulated Charge Pump Inverter* ***NEW!***	SOT-23-6	3.70	2.46	1.85

* ***RoHS Compliant***

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC3201EMS-ND	100mA Ultralow Noise Charge Pump LED Supply	10-MSOP	3.75	2.49	1.94
LTC3202EDD-ND	Low Noise, High Efficiency Charge Pump for White LEDs	10-DFN	4.10	2.93	2.41
LTC3202EDD#PBF-ND	Low Noise, High Efficiency Charge Pump for White LEDs* ***NEW!***	10-DFN	4.10	2.93	2.41
LTC3202EMS-ND	Low Noise, High Efficiency Charge Pump for White LEDs	10-MSOP	3.75	2.49	1.94
LTC3204BEDC-3.3#PBF-ND	3.3V, Low Noise Regulated Charge Pump* ***NEW!***	6-DFN	3.20	1.91	1.71
LTC3204BEDC-5#PBF-ND	5V, Low Noise Regulated Charge Pump* ***NEW!***	6-DFN	3.20	1.91	1.71
LTC3214EDD#PBF-ND	500mA Camera LED Charge Pump* ***NEW!***	10-DFN	3.30	2.36	1.94
LTC3215EDD#PBF-ND	700mA Low Noise High Current LED Charge Pump* ***NEW!***	10-DFN	3.50	2.50	2.06
LTC3250ES6-1.5-ND	1.5V, High Efficiency, Low Noise, Inductorless, Step Down DC/DC Converter	SOT-23-6	2.98	2.13	1.75
LTC3250ES6-1.5#PBF-ND	1.5V, High Efficiency, Low Noise, Inductorless, Step Down DC/DC Converter* ***NEW!***	SOT-23-6	2.98	2.13	1.75
LTC3251EMSE-ND	High Efficiency, Low Noise, Inductorless, Step Down DC/DC Converter	10-MSOP	3.90	2.79	2.29
LTC3251EMSE#PBF-ND	High Efficiency, Low Noise, Inductorless, Step Down DC/DC Converter* ***NEW!***	10-MSOP	3.90	2.79	2.29

CPU Core Power

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1703IG-ND	Dual 550KHz, Sync. Switch Regulator Controller with VID	28-SSOP	12.50	8.93	7.35
LTC1705EGN-ND	Dual 5-Bit, Sync. Switching Regulator Controller	28-SSOP	11.25	7.47	5.63
LTC1705EGN#PBF-ND	Dual 5-Bit, Sync. Switching Regulator Controller* ***NEW!***	28-SSOP	11.25	7.47	5.63
LTC1706EMS-85-ND	VID Voltage Programmer for Intel VRM 8.5	10-MSOP	4.25	2.83	2.15
LTC1709EG-7-ND	5-Bit, 2-Phase, Sync., Step Down Switching Regulator	36-SSOP	9.75	6.48	5.00
LTC1709EG-85-ND	5-Bit, 2-Phase, Sync., Step Down Switching Regulator	36-SSOP	9.75	6.48	5.00
LTC1753CG-ND	5-Bit, Programmable Synchronous Switching Regulator Controller for Pentium II Processor	20-SSOP	6.50	4.32	3.25
LTC1753CG#PBF-ND	5-Bit, Programmable Synchronous Switching Regulator Controller for Pentium II Processor* ***NEW!***	20-SSOP	6.50	4.32	3.25
LTC1753CSW-ND	5-Bit, Programmable Synchronous Switching Regulator Controller for Pentium II Processor	20-SOIC	6.00	3.99	3.00
LTC1909-8EG-ND	Step Down DC/DC Regulator Controller	28-SSOP	10.38	6.89	5.15
LTC3703EGN-ND	100V Sync. Switching Regulator Controller	16-SSOP	6.38	4.24	3.30
LTC3703EGN#PBF-ND	100V Sync. Switching Regulator Controller* ***NEW!***	16-SSOP	6.38	4.24	3.30
LTC3711EGN-ND	5-Bit Adj., Wide Operating Range, Step Down Controller	24-SSOP	7.50	4.98	3.75
LTC3714EG-ND	Intel Compatible, Wide Operating Range, Step Down Controller with Internal Op Amp	28-SSOP	6.50	4.32	3.25
LTC3714EG#PBF-ND	Intel Compatible, Wide Operating Range, Step Down Controller with Internal Op Amp* ***NEW!***	28-SSOP	6.50	4.32	3.25
LTC3716EG-ND	5-Bit, 2-Phase Step Down Switching Regulator	36-SSOP	8.90	5.91	4.45
LTC3719EG-ND	2-Phase, 5-Bit VID, Current Mode, High Efficiency Sync. Step Down Switching Regulator	36-SSOP	8.90	5.91	4.45
LTC3720EGN-ND	1-Phase VRM8.5 Current Mode Step Down Controller	28-SSOP	6.50	4.64	3.82
LTC3720EGN#PBF-ND	1-Phase VRM8.5 Current Mode Step Down Controller* ***NEW!***	28-SSOP	6.50	4.64	3.82
LTC3730CG-ND	3-Phase, 5-Bit Intel Mobile VID, 600KHz, Synchronous Buck Switching Regulator Controller	36-SSOP	8.75	6.25	5.15
LTC3733CG-ND	3-Phase, Buck Controller for AMD CPU's	36-SSOP	8.75	6.25	5.15
LTC3733CG#PBF-ND	3-Phase, Buck Controller for AMD CPU's* ***NEW!***	36-SSOP	8.75	6.25	5.15

Battery Chargers

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1505CG-ND	Constant-Current/Voltage, High Efficiency Battery Charger	28-SSOP	9.88	6.56	5.15
LT1505CG-1-ND	Constant-Current/Voltage, High Efficiency Battery Charger	28-SSOP	9.38	6.23	4.90
LT1505CG-1#PBF-ND	Constant-Current/Voltage, High Efficiency Battery Charger* ***NEW!***	28-SSOP	9.38	6.23	4.90
LT1510-5CGN-ND	500KHz, 1.5A Constant Voltage/Current Battery Charger	16-SSOP	8.13	5.40	4.35
LT1510-5CGN#PBF-ND	500KHz, 1.5A Constant Voltage/Current Battery Charger* ***NEW!***	16-SSOP	8.13	5.40	4.35
LT1510CGN-ND	200KHz, 1.5A Constant Voltage/Current Battery Charger	16-SSOP	8.13	5.40	4.35
LT1510CGN#PBF-ND	200KHz, 1.5A Constant Voltage/Current Battery Charger* ***NEW!***	16-SSOP	8.13	5.40	4.35
LT1510CN-ND	200KHz, 1.5A Constant Voltage/Current Battery Charger	16-Dip	7.50	4.98	4.00
LT1510CN#PBF-ND	200KHz, 1.5A Constant Voltage/Current Battery Charger* ***NEW!***	16-Dip	7.50	4.98	4.00
LT1510CS-ND	200KHz, 1.5A Constant Voltage/Current Battery Charger	16-SOIC	7.88	5.23	4.20
LT1510CS#PBF-ND	200KHz, 1.5A Constant Voltage/Current Battery Charger* ***NEW!***	16-SOIC	7.88	5.23	4.20
LT1510CS8-ND	200KHz, 1.5A Constant Voltage/Current Battery Charger	8-SOIC	6.00	3.99	3.20
LT1510CS8#PBF-ND	200KHz, 1.5A Constant Voltage/Current Battery Charger* ***NEW!***	8-SOIC	6.00	3.99	3.20
LT1510IS-ND	200KHz, 1.5A Constant Voltage/Current Battery Charger	16-SOIC	9.00	5.98	4.80
LT1510IS#PBF-ND	200KHz, 1.5A Constant Voltage/Current Battery Charger* ***NEW!***	16-SOIC	9.00	5.98	4.80
LT1510IS8-ND	200KHz, 1.5A Constant Voltage/Current Battery Charger	8-SOIC	6.88	4.57	3.65
LT1511CSW-ND	3A Constant Current/Voltage Voltage Battery Charger	24-SOIC	13.00	8.64	6.95
LT1511CSW#PBF-ND	3A Constant Current/Voltage Voltage Battery Charger* ***NEW!***	24-SOIC	13.00	8.64	6.95
LT1511ISW-ND	3A Constant Current/Voltage Battery Charger, Ind. Temp.	24-SOIC	15.00	10.00	8.60
LT1512CGN-ND	1.5A, SEPIC Constant Current/Voltage Battery Charger	16-SSOP	8.00	5.32	4.60
LT1512CN8-ND	1.5A, SEPIC Constant Current/Voltage Battery Charger	8-Dip	6.75	4.50	3.85
LT1512CN8#PBF-ND	1.5A, SEPIC Constant Current/Voltage Battery Charger* ***NEW!***	8-Dip	6.75	4.50	3.85
LT1512CS8-ND	1.5A, SEPIC Constant Current/Voltage Battery Charger	8-SOIC	7.00	4.65	4.00
LT1512CS8#PBF-ND	1.5A, SEPIC Constant Current/Voltage Battery Charger* ***NEW!***	8-SOIC	7.00	4.65	4.00
LT1513-2CR-ND	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger	7-DD	9.13	6.06	4.70
LT1513-2CR#PBF-ND	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger* ***NEW!***	7-DD	9.13	6.06	4.70
LT1513-2CT7-ND	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger	TO-220-7	8.75	5.81	4.55
LT1513-2CT7#PBF-ND	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger* ***NEW!***	TO-220-7	8.75	5.81	4.55
LT1513CR-ND	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger	7-DD	9.13	6.06	4.70
LT1513CR#PBF-ND	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger* ***NEW!***	7-DD	9.13	6.06	4.70
LT1513IR-ND	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger, Ind. Temp.	7-DD	10.00	6.64	5.20
LT1513IR#PBF-ND	SEPIC Constant- or Programmable Current/ Constant Voltage Battery Charger, Ind. Temp.* ***NEW!***	7-DD	10.00	6.64	5.20
LT1769CFE-ND	Constant-Current/Voltage 2A Battery Charger	20-TSSOP	10.50	6.98	5.25
LT1769CGN-ND	Constant-Current/Voltage 2A Battery Charger	28-SSOP	10.13	6.73	5.07
LT1769CGN#PBF-ND	Constant-Current/Voltage 2A Battery Charger* ***NEW!***	28-SSOP	10.13	6.73	5.10
LT1769IFE-ND	Constant-Current/Voltage 2A Battery Charger	20-TSSOP	11.50	7.64	5.75
LTC1325CSW-ND	Battery Management System	18-SOIC	13.75	9.15	7.35
LTC1325CSW#PBF-ND	Battery Management System* ***NEW!***	18-SOIC	13.75	9.15	7.35
LTC1558CGN-3.3-ND	3.3V, Backup Battery Controller w/Programmable Output	16-SSOP	5.25	3.49	2.80
LTC1558CGN-5-ND	5V, Backup Battery Controller w/Programmable Output	16-SSOP	5.25	3.49	2.80
LTC1558CS-3.3-ND	3.3V, Backup Battery Controller w/Programmable Output	16-SOIC	5.00	3.32	2.65
LTC1558CS-5-ND	5V, Backup Battery Controller w/Programmable Output	16-SOIC	5.00	3.32	2.65
LTC1558CS8-3.3-ND	3.3V, Backup Battery Controller w/Programmable Output	8-SOIC	4.75	3.16	2.55
LTC1558CS8-5-ND	5V, Backup Battery Controller w/Programmable Output	8-SOIC	4.75	3.16	2.55
LTC1559CGN-3.3-ND	3.3V, Backup Battery Controller with Fixed Output	16-SSOP	5.25	3.49	2.80
LTC1559CGN-5-ND	5V, Backup Battery Controller with Fixed Output	16-SSOP	5.25	3.49	2.80
LTC1559CS8-5-ND	5V, Backup Battery Controller with Fixed Output	8-SOIC	4.75	3.16	2.55
LTC1730EGN-4-ND	4V Li-Ion Battery Pulse Charger	16-SSOP	4.38	2.91	2.19
LTC1730ES8-4.2-ND	4.2V Li-Ion Battery Pulse Charger	8-SOIC	3.88	2.58	1.94
LTC1730ES8-4.2#PBF-ND	4.2V Li-Ion Battery Pulse Charger* ***NEW!***	8-SOIC	3.88	2.58	1.94
LTC1731EMS8-8.2-ND	8.2V Li-Ion Linear Battery Charger Controller	8-MSOP	3.63	2.41	1.90
LTC1731EMS8-8.2#PBF-ND	8.2V Li-Ion Linear Battery Charger Controller* ***NEW!***	8-MSOP	3.63	2.41	1.90
LTC1731EMS8-8.4-ND	8.4V Li-Ion Linear Battery Charger Controller	8-MSOP	3.63	2.41	1.90
LTC1731EMS8-8.4#PBF-ND	8.4V Li-Ion Linear Battery Charger Controller* ***NEW!***	8-MSOP	3.63	2.41	1.90
LTC1731ES8-8.2-ND	8.2V Li-Ion Linear Battery Charger Controller	8-SOIC	3.25	2.16	1.65
LTC1731ES8-8.4-ND	8.4V Li-Ion Linear Battery Charger Controller	8-SOIC	3.25	2.16	1.65
LTC1731ES8-8.4#PBF-ND	8.4V Li-Ion Linear Battery Charger Controller* ***NEW!***	8-SOIC	3.25	2.16	1.65
LTC1732EMS-8.4-ND	Li-Ion Linear Battery Charger Controller	10-MSOP	4.63	3.08	2.32
LTC1732EMS-8.4#PBF-ND	Li-Ion Linear Battery Charger Controller* ***NEW!***	10-MSOP	4.63	3.08	2.32
LTC1733EMSE-ND	Mono Linear Lithium-Ion Battery Charger	10-MSOP	3.63	2.41	1.89
LTC1733EMSE#PBF-ND	Mono Linear Lithium-Ion Battery Charger* ***NEW!***	10-MSOP	3.63	2.41	1.89
LTC1734ES6-4.2-ND	4.2V Li-Ion Linear Battery Charger Controller	SOT-23-6	2.75	1.83	1.38
LTC1734ES6-4.2#PBF-ND	4.2V Li-Ion Linear Battery Charger Controller* ***NEW!***	SOT-23-6	2.75	1.83	1.38
LTC1734LES6-4.2-ND	4.2V Li-Ion Linear Battery Charger Controller	SOT-23	2.85	2.04	1.68
LTC1734LES6-4.2#PBF-ND	4.2V Li-Ion Linear Battery Charger Controller* ***NEW!***	SOT-23	2.85	2.04	1.68
LTC1759CG-ND	Smart Battery Charger	36-SSOP	11.50	7.64	5.75
LTC1759CG#PBF-ND	Smart Battery Charger* ***NEW!***	36-SSOP	11.50	7.64	5.75
LTC1760CFW-ND	Dual Smart Battery System Manager	48-TSSOP	15.90	11.36	9.35
LTC1960CG-ND	Dual Battery Charger/Selector with SPI Interface	36-SSOP	14.75	9.80	7.38
LTC1960CG#PBF-ND	Dual Battery Charger/Selector with SPI Interface* ***NEW!***	36-SSOP	14.75	9.80	7.38
LTC4007EGN-ND	4A, High Efficiency, Standalone Li Battery Charger	24-SSOP	7.63	5.45	4.49
LTC4007EGN#PBF-ND	4A, High Efficiency, Standalone Li Battery Charger* ***NEW!***	24-SSOP	7.63	5.45	4.49
LTC4008EGN-ND	4A, High Efficiency, Multi-Chemistry Battery Charger	20-SSOP	7.38	5.27	4.34
LTC4008EGN#PBF-ND	4A, High Efficiency, Multi-Chemistry Battery Charger* ***NEW!***	20-SSOP	7.38	5.27	4.34
LTC4008EGN-1-ND	4A, High Efficiency, Multi-Chemistry Battery Charger	20-SSOP	7.38	5.27	4.34
LTC4008EGN-1#PBF-ND	4A, High Efficiency, Multi-Chemistry Battery Charger* ***NEW!***	20-SSOP	7.38	5.27	4.34
LTC4011CFE#PBF-ND	High Efficiency Standalone Nickel Battery Charger* ***NEW!***	20-TSSOP	10.00	6.57	5.41
LTC4050EMS-4.1-ND	4.1V Li-Ion Battery Charger Controller	10-MSOP	4.75	3.16	2.38
LTC4050EMS-4.2-ND	4.2V Li-Ion Battery Charger Controller	10-MSOP	4.75	3.16	2.38
LTC4052EMS8E-4.2-ND	Lithium-Ion Battery Pulse Charger w/Over-Current	8-MSOP	3.75	2.68	2.21
LTC4052EMS8E-4.2#PBF-ND	Lithium-Ion Battery Pulse Charger w/Over-Current* ***NEW!***	8-MSOP	3.75	2.68	2.21
LTC4053EMSE-4.2-ND	USB Lithium-Ion Battery Charger w/Thermal Regulation	10-MSOP	3.75	2.68	2.21
LTC4053EMSE-4.2#PBF-ND	USB Lithium-Ion Battery Charger w/Thermal Regulation* ***NEW!***	10-MSOP	3.75	2.68	2.21
LTC4063EDD-ND	Standalone Linear Li-Ion Charger with Micropower LDO Linear Regulator	10-DFN	4.25	2.83	2.24
LTC4065AEDC#PBF-ND	Standalone 750mA Li-Ion Battery Charger* ***NEW!***	6-DFN	2.38	1.59	1.31
LTC4065EDC#PBF-ND	Standalone 750mA Li-Ion Battery Charger* ***NEW!***	6-DFN	2.38	1.59	1.31
LTC4068EDD-4.2#PBF-ND	4.2V, Standalone Linear Li-Ion Battery Charger* ***NEW!***	8-DFN	3.38	2.41	1.99
LTC4068XEDD-4.2#PBF-ND	4.2V, Standalone Linear Li-Ion Battery Charger* ***NEW!***	8-DFN	3.38	2.41	1.99
LTC4075EDD#PBF-ND	Dual Input USB/AC Adapter Standalone Li-Ion Battery Charger* ***NEW!***	10-DFN	3.75	2.67	2.21
LTC4076EDD#PBF-ND	Dual Input Standalone Li-Ion Battery Charger* ***NEW!***	10-DFN	3.75	2.67	2.21
LTC4077EDD#PBF-ND	Dual Input Standalone Li-Ion Battery Charger* ***NEW!***	10-DFN	3.75	2.67	2.21
LTC4100EG-ND	Smart Battery Charger Controller	24- SSOP	10.63	7.06	5.32
LTC4100EG#PBF-ND	Smart Battery Charger Controller* ***NEW!***	24- SSOP	10.63	7.06	5.32
LTC4150CMS-ND	Coulomb Counter/Battery Gas Gauge	10-MSOP	3.00	2.00	1.70
LTC4150CMS#PBF-ND	Coulomb Counter/Battery Gas Gauge* ***NEW!***	10-MSOP	3.00	2.00	1.70

Hot Swap

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1640AHCN8-ND	Negative Voltage Hot Swap Controller	8-Dip	3.88	2.58	2.05
LT1640AHCS8-ND	Negative Voltage Hot Swap Controller	8-SOIC	4.00	2.66	2.10
LT1640ALCN8-ND	Negative Voltage Hot Swap Controller	8-Dip	3.88	2.58	2.05
LT1640ALCS8-ND	Negative Voltage Hot Swap Controller	8-SOIC	4.00	2.66	2.10
LT1640ALCS8#PBF-ND	Negative Voltage Hot Swap Controller* ***NEW!***	8-SOIC	4.00	2.66	2.10
LT1640HIS8-ND	Negative Voltage Hot Swap Controller, Ind. Temp.	8-SOIC	4.50	2.99	2.35
LT1640LCS8-ND	Negative Voltage Hot Swap Controller	8-SOIC	4.00	2.66	2.10
LT1640LCS8#PBF-ND	Negative Voltage Hot Swap Controller* ***NEW!***	8-SOIC	4.00	2.66	2.10
LT1640LIS8-ND	Negative Voltage Hot Swap Controller, Ind. Temp.	8-SOIC	4.50	2.99	2.35
LT1640LIS8#PBF-ND	Negative Voltage Hot Swap Controller, Ind. Temp.* ***NEW!***	8-SOIC	4.50	2.99	2.35
LT1641-1CS8-ND	Positive High Voltage Hot Swap Controller	8-SOIC	5.00	3.32	2.50
LT1641-1CS8#PBF-ND	Positive High Voltage Hot Swap Controller* ***NEW!***	8-SOIC	5.00	3.32	2.50
LT1641-2CS8-ND	Positive High Voltage Hot Swap Controller	8-SOIC	5.00	3.32	2.50
LT1641-2CS8#PBF-ND	Positive High Voltage Hot Swap Controller* ***NEW!***	8-SOIC	5.00	3.32	2.50
LT4220CGN-ND	Dual Supply Hot Swap Controller	16-SSOP	7.00	5.00	4.12
LT4220CGN#PBF-ND	Dual Supply Hot Swap Controller* ***NEW!***	16-SSOP	7.00	5.00	4.12
LT4250HCN8-ND	Negative 48V Hot Swap Controller	8-Dip	4.75	3.16	2.50
LT4250HCS8-ND	Negative 48V Hot Swap Controller	8-SOIC	4.88	3.24	2.55
LT4250HCS8#PBF-ND	Negative 48V Hot Swap Controller* ***NEW!***	8-SOIC	4.88	3.24	2.55
LT4250LCN8-ND	Negative 48V Hot Swap Controller	8-Dip	4.75	3.16	2.50
LT4250LCN8#PBF-ND	Negative 48V Hot Swap Controller* ***NEW!***	8-Dip	4.75	3.16	2.50
LT4250LCS8-ND	Negative 48V Hot Swap Controller	8-SOIC	4.88	3.24	2.55
LT4250LCS8#PBF-ND	Negative 48V Hot Swap Controller* ***NEW!***	8-SOIC	4.88	3.24	2.55
LT4254CGN-ND	Positive High Voltage Hot Swap Controller	16-SSOP	3.88	2.58	2.10
LT4254CGN#PBF-ND	Positive High Voltage Hot Swap Controller* ***NEW!***	16-SSOP	3.88	2.58	2.10
LTC1421CG-ND	Hot Swap Controller	24-SSOP	10.38	6.90	5.90
LTC1421CG-2.5-ND	2.5V Hot Swap Controller	24-SSOP	10.38	6.90	5.90
LTC1421CG-2.5#PBF-ND	2.5V Hot Swap Controller* ***NEW!***	24-SSOP	10.38	6.90	5.90
LTC1421CSW-ND	Hot Swap Controller	24-SOIC	9.63	6.40	5.50
LTC1421CSW-2.5-ND	2.5V Hot Swap Controller	24-SOIC	9.63	6.40	5.50
LTC1421CSW-2.5#PBF-ND	2.5V Hot Swap Controller* ***NEW!***	24-SOIC	9.63	6.40	5.50
LTC1422CN8-ND	8-Pin Hot Swap Controller	8-Dip	5.13	3.41	2.65
LTC1422CS8-ND	8-Pin Hot Swap Controller	8-SOIC	5.25	3.50	2.95
LTC1422CS8#PBF-ND	8-Pin Hot Swap Controller* ***NEW!***	8-SOIC	5.25	3.50	2.95
LTC1422IN8-ND	8-Pin Hot Swap Controller	8-Dip	5.88	3.91	3.05

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1422IS8-ND	8-Pin Hot Swap Controller	8-SOIC	6.00	4.00	3.40
LTC1422IS8#PBF-ND	8-Pin Hot Swap Controller* ***NEW!***	8-SOIC	6.00	4.00	3.40
LTC1642CGN-ND	Adjustable Hot Swap Controller	16-SSOP	7.25	4.82	3.70
LTC1642CGN#PBF-ND	Adjustable Hot Swap Controller* ***NEW!***	16-SSOP	7.25	4.82	3.70
LTC1643ALCGN-ND	PCI-Bus Hot Swap Controller	16-SSOP	8.75	5.81	4.55
LTC1643ALCGN#PBF-ND	PCI-Bus Hot Swap Controller* ***NEW!***	16-SSOP	8.75	5.81	4.55
LTC1644CGN-ND	CompactPCI-Bus Hot Swap Controller	20-SSOP	7.38	4.90	3.95
LTC1644CGN#PBF-ND	CompactPCI-Bus Hot Swap Controller* ***NEW!***	20-SSOP	7.38	4.90	3.95
LTC1646CGN-ND	CompactPCI Dual Hot Swap Controller	16-SSOP	7.00	4.65	3.75
LTC1646CGN#PBF-ND	CompactPCI Dual Hot Swap Controller* ***NEW!***	16-SSOP	7.00	4.65	3.75
LTC1646IGN-ND	CompactPCI Dual Hot Swap Controller	16-SSOP	8.00	5.35	4.25
LTC4210-1CS6-ND	Hot Swap Controller	SOT-23-6	3.35	2.23	1.81
LTC4210-1CS6#PBF-ND	Hot Swap Controller* ***NEW!***	SOT-23-6	3.35	2.23	1.81
LTC4210-1IS6-ND	Hot Swap Controller	SOT-23-6	3.85	2.76	2.27
LTC4210-1IS6#PBF-ND	Hot Swap Controller* ***NEW!***	SOT-23-6	3.85	2.76	2.27
LTC4210-2CS6-ND	Hot Swap Controller	SOT-23-6	3.35	2.40	1.97
LTC4210-2CS6#PBF-ND	Hot Swap Controller* ***NEW!***	SOT-23-6	3.35	2.40	1.97
LTC4210-2IS6-ND	Hot Swap Controller	SOT-23-6	3.85	2.76	2.27
LTC4210-2IS6#PBF-ND	Hot Swap Controller* ***NEW!***	SOT-23-6	3.85	2.76	2.27
LTC4211CMS8-ND	Hot Swap Controller	8-MSOP	4.25	2.83	2.25
LTC4211CMS8#PBF-ND	Hot Swap Controller* ***NEW!***	8-MSOP	4.25	2.83	2.25
LTC4211CS8-ND	Hot Swap Controller	8-SOIC	4.00	2.66	2.10
LTC4211CS8#PBF-ND	Hot Swap Controller* ***NEW!***	8-SOIC	4.00	2.66	2.10
LTC4211CMS-ND	Hot Swap Controller	10-MSOP	5.25	3.49	2.75
LTC4211CMS#PBF-ND	Hot Swap Controller* ***NEW!***	10-MSOP	5.25	3.49	2.75
LTC4211IS8-ND	Hot Swap Controller with Multifunction Current Control	8-SOIC	4.63	3.08	2.45
LTC4211IMS8-ND	Hot Swap Controller	8-MSOP	4.88	3.24	2.55
LTC4211IMS8#PBF-ND	Hot Swap Controller* ***NEW!***	8-MSOP	4.88	3.24	2.55
LTC4214-1CMS-ND	Negative Voltage Hot Swap Controller	10-MSOP	4.63	3.30	2.72
LTC4214-2CMS-ND	Negative Voltage Hot Swap Controller	10-MSOP	4.63	3.30	2.72
LTC4230CGN-ND	Triple Hot Swap Controller	20-SSOP	7.38	4.90	3.95
LTC4230CGN#PBF-ND	Triple Hot Swap Controller* ***NEW!***	20-SSOP	7.38	4.90	3.95
LTC4240CGN-ND	CompactPCI™ Hot Swap Controller	28-SSOP	8.50	5.65	4.55
LTC4241CGN-ND	PCI-Bus with 3.3V Auxiliary Hot Swap Controller	20-SSOP	3.75	2.49	1.90
LTC4244CGN-ND	CompactPCI™ Bus Hot Swap Controller	20-SSOP	7.75	5.54	4.56
LTC4244CGN-1-ND	CompactPCI™ Bus Hot Swap Controller	20-SSOP	7.75	5.54	4.56
LTC4251-1CS6-ND	Negative Voltage Hot Swap Controller	SOT-23-6	4.10	2.73	2.16
LTC4251CS6-ND	Negative Voltage Hot Swap Controller	SOT-23-6	4.10	2.73	2.16
LTC4252-1CMS-ND	Negative Voltage Hot Swap Controller	10-MSOP	4.88	3.24	2.60
LTC4252-1CMS8-ND	Negative Voltage Hot Swap Controller	8-MSOP	4.13	2.74	2.20
LTC4252-1CMS8#PBF-ND	Negative Voltage Hot Swap Controller* ***NEW!***	8-MSOP	4.13	2.74	2.20
LTC4252-1IMS8-ND	Negative Voltage Hot Swap Controller	8-MSOP	4.75	3.16	2.55
LTC4252-1IMS8#PBF-ND	Negative Voltage Hot Swap Controller* ***NEW!***	8-MSOP	4.75	3.16	2.55
LTC4252-2CMS-ND	Negative Voltage Hot Swap Controller	10-MSOP	4.88	3.24	2.60
LTC4252-2CMS#PBF-ND	Negative Voltage Hot Swap Controlle* ***NEW!***	10-MSOP	4.88	3.24	2.60
LTC4252-2CMS8-ND	Negative Voltage Hot Swap Controller	8-MSOP	4.13	2.74	2.20
LTC4253CGN-ND	Negative 48V Hot Swap Controller with Sequencer	16-SSOP	5.88	3.91	3.15
LTC4253CGN#PBF-ND	Negative 48V Hot Swap Controller with Sequencer* ***NEW!***	16-SSOP	5.88	3.91	3.15
LTC4261CGN#PBF-ND	Negative Voltage Hot Swap Controller with ADC and I2C Monitoring* ***NEW!***	28-SSOP	11.90	8.50	7.00
LTC4261CUFD#PBF-ND	Negative Voltage Hot Swap Controller with ADC and I2C Monitoring* ***NEW!***	24-QFN	11.90	8.50	7.00
LTC4261IGN#PBF-ND	Negative Voltage Hot Swap Controller with ADC and I2C Monitoring* ***NEW!***	28-SSOP	14.30	10.21	8.41
LTC4261IUFD#PBF-ND	Negative Voltage Hot Swap Controller with ADC and I2C Monitoring* ***NEW!***	24-QFN	14.30	10.21	8.41

PCMCIA Switches

Digi-Key Part No.	Description	Pkg.	1	25	100
LTC1314CS-ND	PCMCIA Switching Matrix	14-SOIC	4.38	2.95	2.35
LTC1315CG-ND	PCMCIA Switching Matrix	24-SSOP	6.25	4.15	3.35
LT1312CS8-ND	Single PCMCIA VPP Driver/Regulator	8-SOIC	3.75	2.50	2.15
LTC1470CS8-ND	Single PCMCIA Protected 3.3V/5V Vcc Switch	8-SOIC	4.50	3.00	2.60
LTC1470CS8#PBF-ND	Single PCMCIA Protected 3.3V/5V Vcc Switch* ***NEW!***	8-SOIC	4.50	3.00	2.60
LTC1470ES8-ND	Single PCMCIA Protected 3.3V/5V Vcc Switch	8-SOIC	5.38	3.84	3.16
LTC1470ES8#PBF-ND	Single PCMCIA Protected 3.3V/5V Vcc Switch* ***NEW!***	8-SOIC	5.38	3.84	3.16
LTC1471CS-ND	Dual PCMCIA Protected 3.3V/5V Vcc Switch	16-SOIC	7.50	5.00	4.29
LTC1471CS#PBF-ND	Dual PCMCIA Protected 3.3V/5V Vcc Switch* ***NEW!***	16-SOIC	7.50	5.00	4.29
LTC1472CS-ND	Protected PCMCIA Vcc/VPP Switching Matrix	16-SOIC	6.25	4.15	3.55
LTC1472CS#PBF-ND	Protected PCMCIA Vcc/VPP Switching Matrix* ***NEW!***	16-SOIC	6.25	4.15	3.55

PWM Controllers

Digi-Key Part No.	Description	Pkg.	1	25	100
LT1241CN8-ND	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1241CS8-ND	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1242CN8-ND	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1242CS8-ND	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1242CS8#PBF-ND	High Speed Current Mode PWM* ***NEW!***	8-SOIC	3.88	2.58	2.30
LT1243CN8-ND	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1243CN8#PBF-ND	High Speed Current Mode PWM* ***NEW!***	8-Dip	3.50	2.33	2.10
LT1243CS8-ND	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1243CS8#PBF-ND	High Speed Current Mode PWM* ***NEW!***	8-SOIC	3.88	2.58	2.30
LT1243IN8-ND	High Speed Current Mode PWM, Ind. Temp.	8-Dip	3.88	2.58	2.30
LT1243IN8#PBF-ND	High Speed Current Mode PWM, Ind. Temp.* ***NEW!***	8-Dip	3.88	2.58	2.30
LT1244CN8-ND	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1244CN8#PBF-ND	High Speed Current Mode PWM* ***NEW!***	8-Dip	3.50	2.33	2.10
LT1244CS8-ND	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1244CS8#PBF-ND	High Speed Current Mode PWM* ***NEW!***	8-SOIC	3.88	2.58	2.30
LT1245CN8-ND	High Speed Current Mode PWM	8-Dip	3.50	2.33	2.10
LT1245CS8-ND	High Speed Current Mode PWM	8-SOIC	3.88	2.58	2.30
LT1245CS8#PBF-ND	High Speed Current Mode PWM* ***NEW!***	8-SOIC	3.88	2.58	2.30
LT1245IN8-ND	High Speed Current Mode PWM, Ind. Temp.	8-Dip	3.88	2.58	2.30
LT1246CN8-ND	1MHz Current Mode PWM	8-Dip	4.00	2.67	2.25

CCFL/LCD

Digi-Key Part No.	Description	Pkg.	1	25	100
LT1182CS-ND	CCFL/LCD Contrast Switching Regulator	16-SOIC	9.38	6.25	5.35
LT1182CS#PBF-ND	CCFL/LCD Contrast Switching Regulator* ***NEW!***	16-SOIC	9.38	6.25	5.35
LT1183CS-ND	CCFL/LCD Contrast Switching Regulator	16-SOIC	9.38	6.25	5.35
LT1183CS#PBF-ND	CCFL/LCD Contrast Switching Regulator* ***NEW!***	16-SOIC	9.38	6.25	5.35
LT1184CS-ND	CCFL/LCD Contrast Switching Regulator	16-SOIC	6.63	4.40	3.80
LT1184CS#PBF-ND	CCFL/LCD Contrast Switching Regulator* ***NEW!***	16-SOIC	6.63	4.40	3.80
LT1184FCS-ND	CCFL/LCD Contrast Switching Regulator, Floating	16-SOIC	7.88	5.25	4.50
LT1184FCS#PBF-ND	CCFL/LCD Contrast Switching Regulator, Floating* ***NEW!***	16-SOIC	7.88	5.25	4.50
LT1186FCS-ND	DAC Programmable CCFL Switching Regulator	16-SOIC	9.75	6.50	5.60

MOSFET Drivers

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1158CN-ND	Half Bridge N-Channel Power MOSFET Driver	16-Dip	5.88	3.92	3.50
LT1158CN#PBF-ND	Half Bridge N-Channel Power MOSFET Driver* ***NEW!***	16-Dip	5.88	3.92	3.50
LT1158CSW-ND	Half Bridge N-Channel Power MOSFET Driver	16-SOIC	6.25	4.17	3.75
LT1158CSW#PBF-ND	Half Bridge N-Channel Power MOSFET Driver* ***NEW!***	16-SOIC	6.25	4.17	3.75
LT1158ISW-ND	Half Bridge N-Channel Power MOSFET Driver	16-SOIC	7.25	4.83	4.30
LT1158ISW#PBF-ND	Half Bridge N-Channel Power MOSFET Driver* ***NEW!***	16-SOIC	7.25	4.83	4.30
LT1160CN-ND	Half Bridge N-Channel Power MOSFET Driver	14-Dip	5.25	3.50	3.00
LT1160CS-ND	Half Bridge N-Channel Power MOSFET Driver	14-SOIC	5.63	3.75	3.20
LT1160CS#PBF-ND	Half Bridge N-Channel Power MOSFET Driver* ***NEW!***	14-SOIC	5.63	3.75	3.20
LT1161CN-ND	Quad High Side N-Channel MOSFET Driver	20-Dip	6.00	4.00	3.30
LT1161CN#PBF-ND	Quad High Side N-Channel MOSFET Driver* ***NEW!***	20-Dip	6.00	4.00	3.30
LT1161CSW-ND	Quad High Side N-Channel MOSFET Driver	20-SOIC	6.50	4.32	3.60
LT1161CSW#PBF-ND	Quad High Side N-Channel MOSFET Driver* ***NEW!***	20-SOIC	6.50	4.30	3.60
LT1161IN-ND	Quad High Side N-Channel MOSFET Driver	20-Dip	6.75	4.50	3.70
LT1161IN#PBF-ND	Quad High Side N-Channel MOSFET Driver* ***NEW!***	20-Dip	6.75	4.50	3.70
LT1161ISW-ND	Quad High Side N-Channel MOSFET Driver	20-SOIC	7.25	4.82	4.05
LT1161ISW#PBF-ND	Quad High Side N-Channel MOSFET Driver* ***NEW!***	20-SOIC	7.25	4.82	4.05
LT1336CN-ND	Half Bridge N-Channel MOSFET Driver with Boost Regulator	16-Dip	5.63	3.75	3.20
LT1336CS-ND	Half Bridge N-Channel MOSFET Driver with Boost Reg.	16-SOIC	6.00	4.00	3.40
LT1336CS#PBF-ND	Half Bridge N-Channel MOSFET Driver with Boost Regulator* ***NEW!***	16-SOIC	6.00	4.00	3.40
LT1910ES8-ND	High Side MOSFET Driver	8-SOIC	4.13	2.95	2.43
LT1910ES8#PBF-ND	High Side MOSFET Driver* ***NEW!***	8-SOIC	4.13	2.95	2.43
LTC1153CN8-ND	Auto-Reset Electronic Circuit Breaker	8-Dip	3.75	2.50	2.10
LTC1153CN8#PBF-ND	Auto-Reset Electronic Circuit Breaker* ***NEW!***	8-Dip	3.75	2.50	2.10
LTC1153CS8-ND	Auto-Reset Electronic Circuit Breaker	8-SOIC	4.00	2.66	2.25
LTC1153CS8#PBF-ND	Auto-Reset Electronic Circuit Breaker* ***NEW!***	8-SOIC	4.00	2.66	2.25
LTC1153IS8-ND	Auto-Reset Electronic Circuit Breaker	8-SOIC	4.88	3.24	2.75
LTC1153IS8#PBF-ND	Auto-Reset Electronic Circuit Breaker* ***NEW!***	8-SOIC	4.88	3.24	2.75
LTC1154CN8-ND	Single High Side MOSFET Driver	8-Dip	3.25	2.16	1.85
LTC1154CS8-ND	Single High Side MOSFET Driver	8-SOIC	3.50	2.35	2.00
LTC1154CS8#PBF-ND	Single High Side MOSFET Driver* ***NEW!***	8-SOIC	3.50	2.35	2.00
LTC1155CN8-ND	Dual High Side MOSFET Driver	8-Dip	5.25	3.50	3.00
LTC1155CN8#PBF-ND	Dual High Side MOSFET Driver* ***NEW!***	8-Dip	5.25	3.50	3.00
LTC1155CS8-ND	Dual High Side MOSFET Driver	8-SOIC	5.63	3.75	3.20
LTC1155CS8#PBF-ND	Dual High Side MOSFET Driver* ***NEW!***	8-SOIC	5.63	3.75	3.20
LTC1156CN-ND	Quad High Side MOSFET Driver	16-Dip	8.75	5.81	4.95
LTC1156CSW-ND	Quad High Side MOSFET Driver	16-SOIC	9.38	6.25	5.35
LTC1157CS8-ND	Dual, 3.3V, High Side MOSFET Driver	8-SOIC	4.75	3.16	2.65
LTC1157CS8#PBF-ND	Dual, 3.3V, High Side MOSFET Driver* ***NEW!***	8-SOIC	4.75	3.16	2.65
LTC1163CS8-ND	Triple High Side MOSFET Driver	8-SOIC	5.25	3.50	2.90
LTC1163CS8#PBF-ND	Triple High Side MOSFET Driver* ***NEW!***	8-SOIC	5.25	3.50	2.90
LTC1165CS8-ND	Triple High Side MOSFET Driver	8-SOIC	5.25	3.50	2.90
LTC1165CS8#PBF-ND	Triple High Side MOSFET Driver* ***NEW!***	8-SOIC	5.25	3.50	2.90
LTC1255CN8-ND	Dual 24V High Side MOSFET Driver	8-Dip	5.25	3.50	3.00
LTC1255CS8-ND	Dual 24V High Side MOSFET Driver	8-SOIC	5.63	3.75	3.20
LTC1255CS8#PBF-ND	Dual 24V High Side MOSFET Driver* ***NEW!***	8-SOIC	5.63	3.75	3.20
LTC1255IS8-ND	Dual 24V High Side MOSFET Driver	8-SOIC	7.38	4.90	4.15
LTC1266CS-ND	Sync. Regulator Controller for N/P Channel MOSFETS	16-SOIC	7.50	4.98	4.05
LTC1266CS#PBF-ND	Sync. Reg. Controller for N/P Channel MOSFETS* ***NEW!***	16-SOIC	7.50	4.98	4.05
LTC1266CS-3.3-ND	3.3V Sync. Reg. Controller for N/P Channel MOSFETS	16-SOIC	7.50	4.98	4.05
LTC1266IS-ND	Sync. Regulator Controller for N/P Channel MOSFETS	16-SOIC	8.50	5.65	4.45
LTC1266IS#PBF-ND	Sync. Reg. Controller for N/P Channel MOSFETS* ***NEW!***	16-SOIC	8.50	5.65	4.45
LTC1266IS-3.3-ND	3.3V Sync. Reg. Controller for N/P Channel MOSFETS	16-SOIC	8.50	5.65	4.45
LTC1266IS-3.3#PBF-ND	3.3V Sync. Reg. Controller for N/P Channel MOSFETS* ***NEW!***	16-SOIC	8.50	5.65	4.45
LTC1266IS-5-ND	5V Sync. Reg. Controller for N/P Channel MOSFETS	16-SOIC	8.50	5.65	4.45
LTC1477CS8-ND	Single Protected High Side Switch	8-SOIC	6.25	4.15	3.50
LTC1477CS8#PBF-ND	Single Protected High Side Switch* ***NEW!***	8-SOIC	6.25	4.15	3.50
LTC1478CS-ND	Dual Protected High Side Switch	16-SOIC	10.00	6.65	5.55
LTC1478CS#PBF-ND	Dual Protected High Side Switch* ***NEW!***	16-SOIC	10.00	6.65	5.55
LTC1693-1CS8-ND	High-Speed Dual N-Channel MOSFET Driver	8-SOIC	3.50	2.33	1.75
LTC1693-1CS8#PBF-ND	High-Speed Dual N-Channel MOSFET Driver* ***NEW!***	8-SOIC	3.50	2.33	1.75
LTC1693-1IS8-ND	High-Speed Dual N-Channel MOSFET Driver, Ind. Temp.	8-SOIC	4.00	2.66	2.00
LTC1693-1IS8#PBF-ND	High-Speed Dual N-Channel MOSFET Driver, Ind. Temp* ***NEW!***	8-SOIC	4.00	2.66	2.00
LTC1693-2IS8-ND	High-Speed Dual N-Channel MOSFET Driver, Ind. Temp.	8-SOIC	4.00	2.66	2.00
LTC1693-2IS8#PBF-ND	High-Speed Dual N-Channel MOSFET Driver, Ind. Temp* ***NEW!***	8-SOIC	4.00	2.66	2.00
LTC1693-5CMS8-ND	High-Speed Single N-Channel MOSFET Driver	8-MSOP	3.63	2.41	1.82
LTC1693-5CMS8#PBF-ND	High-Speed Single N-Channel MOSFET Driver* ***NEW!***	8-MSOP	3.63	2.41	1.82
LTC1710CMS8-ND	Dual SMBus High Side Switch	8-MSOP	6.38	4.24	3.20
LTC1710CS8-ND	Dual SMBus High Side Switch	8-SOIC	5.88	3.91	2.95
LTC1710IS8-ND	Dual SMBus High Side Switch, Ind. Temp.	8-SOIC	7.00	4.65	3.50
LTC1981ES5-ND	Single Micropower High Side Switcher Controller	SOT-23-5	2.60	1.73	1.30
LTC1981ES5#PBF-ND	Single Micropower High Side Switcher Controller* ***NEW!***	SOT-23-5	2.60	1.73	1.30
LTC1982ES6-ND	Dual N-Channel MOSFET Driver	SOT-23-6	3.13	2.08	1.60
LTC1982ES6#PBF-ND	Dual N-Channel MOSFET Driver* ***NEW!***	SOT-23-6	3.13	2.08	1.60
LTC4440EMS8E-ND	High-Speed, High Voltage, High Side Gate Driver	8-MSOP	3.50	2.50	2.06
LTC4440ES6-ND	High-Speed, High Voltage, High Side Gate Driver	SOT-23-6	3.60	2.58	2.12
LTC4440ES6#PBF-ND	High-Speed, High Voltage, High Side Gate Driver* ***NEW!***	SOT-23-6	3.60	2.58	2.12

SIM Interface

Digi-Key Part No.	Description	Pkg.	1	25	100
LTC1555CGN-ND	SIM Power Supply and Level Translator	16-SSOP	5.38	3.60	3.10
LTC1555IGN-ND	SIM Power Supply and Level Translator	16-SSOP	6.50	4.32	3.70
LTC1555IGN#PBF-ND	SIM Power Supply and Level Translator* ***NEW!***	16-SSOP	6.50	4.32	3.70
LTC1556CGN-ND	SIM Power Supply and Level Translator with LDO Reg	20-SSOP	6.25	4.15	3.60
LTC1556IGN-ND	SIM Power Supply and Level Translator with LDO Reg	20-SSOP	7.75	5.15	4.45
LTC1955EUH-ND	Dual Smart Card Interface with Serial Control	32-QFN	4.90	3.50	2.88
LTC1955EUH#PBF-ND	Dual Smart Card Interface with Serial Control* ***NEW!***	32-QFN	4.90	3.50	2.88
LTC4555EUD-ND	SIM Power Supply and Level Translator	16-QFN	3.63	2.59	2.13
LTC4555EUD#PBF-ND	SIM Power Supply and Level Translator* ***NEW!***	16-QFN	3.63	2.59	2.13

Supply Tracker

Digi-Key Part No.	Description	Pkg.	1	25	100
LTC2921CGN-ND	Power Supply Tracker with Monitor	16-SSOP	6.25	4.20	3.60
LTC2921CGN#PBF-ND	Power Supply Tracker with Monitor* ***NEW!***	16-SSOP	6.25	4.20	3.60
LTC2921CGN-2.5-ND	Power Supply Tracker with Monitor	16-SSOP	6.25	4.20	3.60
LTC2921CGN-3.3-ND	Power Supply Tracker with Monitor	16-SSOP	6.25	4.20	3.60
LTC2922CF-ND	Power Supply Tracker with Monitor	20-TSSOP	6.75	4.50	3.85
LTC2922CF-2.5-ND	Power Supply Tracker with Monitor	20-TSSOP	6.75	4.50	3.85
LTC2922CF-3.3-ND	Power Supply Tracker with Monitor	20-TSSOP	6.75	4.50	3.85

* ***RoHS Compliant***

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
LM385BZ-2.5LT-ND	Precision Voltage Reference, 2.5V, 1.5%	TO-92	2.00	1.45	1.10
LT1004CS8-1.2-ND	Micropower 1.2 Voltage Reference	8-SOIC	2.88	1.92	1.65
LT1004CS8-1.2#PBF-ND	Micropower 1.2 Voltage Reference* ***NEW!***	8-SOIC	2.88	1.92	1.65
LT1004CS8-2.5-ND	Micropower 2.5 Voltage Reference	8-SOIC	2.88	1.92	1.65
LT1004CS8-2.5#PBF-ND	Micropower 2.5 Voltage Reference* ***NEW!***	8-SOIC	2.88	1.92	1.65
LT1004CZ-1.2-ND	Micropower 1.2 Voltage Reference	TO-92	2.38	1.58	1.35
LT1004CZ-1.2#PBF-ND	Micropower 1.2 Voltage Reference* ***NEW!***	TO-92	2.38	1.58	1.35
LT1004CZ-2.5-ND	Micropower 2.5 Voltage Reference	TO-92	2.38	1.58	1.35
LT1004CZ-2.5#PBF-ND	Micropower 2.5 Voltage Reference* ***NEW!***	TO-92	2.38	1.58	1.35
LT1004IS8-1.2-ND	Micropower 1.2 Voltage Reference	8-SOIC	5.63	3.75	3.20
LT1004IS8-1.2#PBF-ND	Micropower 1.2 Voltage Reference* ***NEW!***	8-SOIC	5.63	3.75	3.20
LT1004IS8-2.5-ND	Micropower 2.5 Voltage Reference	8-SOIC	5.63	3.75	3.20
LT1004IS8-2.5#PBF-ND	Micropower 2.5 Voltage Reference* ***NEW!***	8-SOIC	5.63	3.75	3.20
LT1004IZ-2.5-ND	Micropower 2.5 Voltage Reference	TO-92	5.00	3.33	2.85
LT1004IZ-2.5#PBF-ND	Micropower 2.5 Voltage Reference* ***NEW!***	TO-92	5.00	3.33	2.85
LT1009CMS8-ND	2.5V Reference Shunt Regulator	8-MSOP	3.75	2.49	2.00
LT1009CMS8#PBF-ND	2.5V Reference Shunt Regulator* ***NEW!***	8-MSOP	3.75	2.49	2.00
LT1009CZ-ND	2.5V Reference Shunt Regulator	TO-92	2.38	1.58	1.35
LT1009CZ#PBF-ND	2.5V Reference Shunt Regulator* ***NEW!***	TO-92	2.38	1.58	1.35
LT1009IS8-ND	2.5V Reference Shunt Regulator	8-SOIC	4.50	3.00	2.55
LT1009IS8#PBF-ND	2.5V Reference Shunt Regulator* ***NEW!***	8-SOIC	4.50	3.00	2.55
LT1009IZ-ND	2.5V Reference Shunt Regulator	TO-92	4.13	2.75	2.35
LT1009IZ#PBF-ND	2.5V Reference Shunt Regulator* ***NEW!***	TO-92	4.13	2.75	2.35
LT1009S8-ND	2.5V Reference Shunt Regulator	8-SOIC	3.13	2.08	1.85
LT1009S8#PBF-ND	2.5V Reference Shunt Regulator* ***NEW!***	8-SOIC	3.13	2.08	1.85
LT1019ACN8-2.5-ND	Precision 2.5V Bandgap Reference (Elect. Improved) .05%	8-Dip	11.25	7.50	6.50
LT1019ACN8-2.5#PBF-ND	Precision 2.5V Bandgap Reference (Elect. Improved) .05%* ***NEW!***	8-Dip	11.25	7.50	6.50
LT1019ACN8-4.5-ND	Precision 4.5V Bandgap Reference (Elect. Improved) .05%	8-Dip	11.25	7.50	6.50
LT1019ACN8-4.5#PBF-ND	Precision 4.5V Bandgap Reference (Elect. Improved) .05%* ***NEW!***	8-Dip	11.25	7.50	6.50
LT1019ACN8-5-ND	Precision 5V Bandgap Reference (Elect. Improved) .05%	8-Dip	11.25	7.50	6.50
LT1019ACN8-5#PBF-ND	Precision 5V Bandgap Reference (Elect. Improved) .05%* ***NEW!***	8-Dip	11.25	7.50	6.50
LT1019ACN8-10-ND	Precision 10V Bandgap Reference (Elect. Improved) .05%	8-Dip	11.25	7.50	6.50
LT1019ACS8-2.5-ND	Precision 2.5V Reference (Elect. Improved) .05%	8-SOIC	10.88	7.50	6.50
LT1019ACS8-2.5#PBF-ND	Precision 2.5V Reference (Elect. Improved) .05%* ***NEW!***	8-SOIC	10.88	7.50	6.50
LT1019ACS8-5-ND	Precision 5V Reference (Elect. Improved) .05%	8-SOIC	10.88	7.50	6.50
LT1019ACS8-5#PBF-ND	Precision 5V Reference (Elect. Improved) .05%* ***NEW!***	8-SOIC	10.88	7.50	6.50
LT1019CN8-2.5-ND	Precision 2.5V Bandgap Reference .02%	8-Dip	6.88	4.58	3.90
LT1019CN8-2.5#PBF-ND	Precision 2.5V Bandgap Reference .02%* ***NEW!***	8-Dip	6.88	4.58	3.90
LT1019CN8-5-ND	Precision 5V Bandgap Reference .02%	8-Dip	6.88	4.58	3.90
LT1019CN8-5#PBF-ND	Precision 5V Bandgap Reference .02%* ***NEW!***	8-Dip	6.88	4.58	3.90
LT1019CN8-10-ND	Precision 10V Bandgap Reference .02%	8-Dip	6.88	4.58	3.90
LT1019CS8-2.5-ND	Precision 2.5V Bandgap Reference .02%	8-SOIC	8.38	5.58	4.85
LT1019CS8-2.5#PBF-ND	Precision 2.5V Bandgap Reference .02%* ***NEW!***	8-SOIC	8.38	5.58	4.85
LT1019CS8-4.5-ND	Precision 4.5V Bandgap Reference .02%	8-SOIC	8.38	5.58	4.85
LT1019CS8-4.5#PBF-ND	Precision 4.5V Bandgap Reference .02%* ***NEW!***	8-SOIC	8.38	5.58	4.85
LT1019CS8-5-ND	Precision 5V Bandgap Reference .02%	8-SOIC	8.38	5.58	4.85
LT1019CS8-5#PBF-ND	Precision 5V Bandgap Reference .02%* ***NEW!***	8-SOIC	8.38	5.58	4.85
LT1019CS8-10-ND	Precision 10V Bandgap Reference .02%	8-SOIC	8.38	5.58	4.85
LT1019CS8-10#PBF-ND	Precision 10V Bandgap Reference .02%* ***NEW!***	8-SOIC	8.38	5.58	4.85
LT1019IN8-2.5-ND	Precision 2.5V Bandgap Reference .02%	8-Dip	8.63	5.75	4.95
LT1019IN8-2.5#PBF-ND	Precision 2.5V Bandgap Reference .02%* ***NEW!***	8-Dip	8.63	5.75	4.95
LT1021BCN8-5-ND	Precision 5V Reference, TC 5ppm/°C	8-Dip	9.63	6.42	5.50
LT1021BCN8-5#PBF-ND	Precision 5V Reference, TC 5ppm/°C* ***NEW!***	8-Dip	9.63	6.42	5.50
LT1021BCN8-7-ND	Precision 7V Reference, TC 5ppm/°C	8-Dip	9.63	6.42	5.50
LT1021BCN8-7#PBF-ND	Precision 7V Reference, TC 5ppm/°C* ***NEW!***	8-Dip	9.63	6.42	5.50
LT1021BCN8-10-ND	Precision 10V Reference, TC 5ppm/°C	8-Dip	9.63	6.42	5.50
LT1021BCN8-10#PBF-ND	Precision 10V Reference, TC 5ppm/°C* ***NEW!***	8-Dip	9.63	6.42	5.50
LT1021BMH-5-ND	Precision 5V Reference, TC 5ppm/°C	TO-5	27.38	18.25	15.65
LT1021BMH-10-ND	Precision 10V Reference, TC 5ppm/°C	TO-5	27.38	18.25	15.65
LT1021CCH-5-ND	Precision 5V Reference, 0.05% Tolerance	TO-5-8	9.38	6.25	5.35
LT1021CCN8-5-ND	Precision 5V Reference, TC 20ppm/°C	8-Dip	6.38	4.25	3.65
LT1021CCN8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C* ***NEW!***	8-Dip	6.38	4.25	3.65
LT1021CCN8-10-ND	Precision 10V Reference, TC 20ppm/°C	8-Dip	6.38	4.25	3.65
LT1021CCN8-10#PBF-ND	Precision 10V Reference, TC 20ppm/°C* ***NEW!***	8-Dip	6.38	4.25	3.65
LT1021CIN8-5-ND	Precision 5V Reference, TC 20ppm/°C	8-Dip	8.63	5.75	4.85
LT1021CIN8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C* ***NEW!***	8-Dip	8.63	5.75	4.85
LT1021DCN8-5-ND	Precision 5V Reference, TC 20ppm/°C	8-Dip	4.75	3.17	2.75
LT1021DCN8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C* ***NEW!***	8-Dip	4.75	3.17	2.75
LT1021DCN8-10-ND	Precision 10V Reference, TC 20ppm/°C	8-Dip	4.75	3.17	2.75
LT1021DCN8-10#PBF-ND	Precision 10V Reference, TC 20ppm/°C* ***NEW!***	8-Dip	4.75	3.17	2.75
LT1021DCS8-5-ND	Precision 5V Reference, TC 20ppm/°C	8-SOIC	5.88	3.92	3.35
LT1021DCS8-5#PBF-ND	Precision 5V Reference, TC 20ppm/°C* ***NEW!***	8-SOIC	5.88	3.92	3.35
LT1021DCS8-10-ND	Precision 10V Reference, TC 20ppm/°C	8-SOIC	5.88	3.92	3.35
LT1021DCS8-10#PBF-ND	Precision 10V Reference, TC 20ppm/°C* ***NEW!***	8-SOIC	5.88	3.92	3.35
LT1027BCN8-5-ND	5V Precision Reference, 2ppm/°C	8-Dip	9.25	6.17	4.95
LT1027BCN8-5#PBF-ND	5V Precision Reference, 2ppm/°C* ***NEW!***	8-Dip	9.25	6.17	4.95
LT1027CCN8-5-ND	5V Precision Reference, 3ppm/°C	8-Dip	8.38	5.58	4.50
LT1027CCN8-5#PBF-ND	5V Precision Reference, 3ppm/°C* ***NEW!***	8-Dip	8.38	5.58	4.50
LT1027CCS8-5-ND	5V Precision Reference, 3ppm/°C	8-SOIC	9.50	6.31	4.75
LT1027CCS8-5#PBF-ND	5V Precision Reference, 3ppm/°C* ***NEW!***	8-SOIC	9.50	6.31	4.75
LT1027DCN8-5-ND	5V Precision Reference, 5ppm/°C	8-Dip	7.38	4.92	3.95
LT1027DCN8-5#PBF-ND	5V Precision Reference, 5ppm/°C* ***NEW!***	8-Dip	7.38	4.92	3.95
LT1027ECN8-5-ND	5V Precision Reference, 7.5ppm/°C	8-Dip	6.88	4.58	3.65
LT1027ECN8-5#PBF-ND	5V Precision Reference, 7.5ppm/°C* ***NEW!***	8-Dip	6.88	4.58	3.65
LT1027ECS8-5-ND	5V Precision Reference, 7.5ppm/°C	8-SOIC	4.63	3.10	2.40
LT1027ECS8-5#PBF-ND	5V Precision Reference, 7.5ppm/°C* ***NEW!***	8-SOIC	4.63	3.10	2.40
LT1029ACZ-ND	5V Precision Bandgap Reference, 20ppm/°C	TO-92	4.50	3.00	2.60
LT1029ACZ#PBF-ND	5V Precision Bandgap Reference, 20ppm/°C* ***NEW!***	TO-92	4.50	3.00	2.60
LT1029CZ-ND	5V Precision Bandgap Reference, 20ppm/°C	TO-92	2.75	1.83	1.60
LT1029CZ#PBF-ND	5V Precision Bandgap Reference, 20ppm/°C* ***NEW!***	TO-92	2.75	1.83	1.60
LT1031BCH-ND	Precision 10V Reference, TC 5ppm/°C	TO-39	13.50	9.00	7.70
LT1031BMH-ND	Precision 10V Reference, TC 5ppm/°C	TO-39	21.00	14.00	12.00
LT1031DCH-ND	Precision 10V Reference, 25ppm/°C	TO-5	6.25	4.15	3.55
LT1034BCZ-1.2-ND	Dual 1.2V Reference, Max TC = 20 ppm/°C	TO-92	5.00	3.33	2.85
LT1034BCZ-1.2#PBF-ND	Dual 1.2V Reference, Max TC = 20 ppm/°C* ***NEW!***	TO-92	5.00	3.33	2.85
LT1034BCZ-2.5-ND	Dual 2.5V Reference, Max TC = 20 ppm/°C	TO-92	5.00	3.33	2.85
LT1034BCZ-2.5#PBF-ND	Dual 2.5V Reference, Max TC = 20 ppm/°C* ***NEW!***	TO-92	5.00	3.33	2.85
LT1034CS8-1.2-ND	Dual 1.2V Reference, Max TC = 40 ppm/°C	8-SOIC	4.50	3.00	2.40
LT1034CS8-1.2#PBF-ND	Dual 1.2V Reference, Max TC = 40 ppm/°C* ***NEW!***	8-SOIC	4.50	3.00	2.40
LT1034CS8-2.5-ND	Dual 2.5V Reference, Max TC = 40 ppm/°C	8-SOIC	4.50	3.00	2.40
LT1034CZ-1.2-ND	Dual 1.2V Reference, Max TC = 40 ppm/°C	TO-92	3.75	2.50	2.15
LT1034CZ-2.5-ND	Dual 2.5V Reference, Max TC = 40 ppm/°C	TO-92	3.75	2.50	2.15
LT1034IS8-2.5-ND	Dual 2.5V Reference, Max TC = 40ppm/°C	8-SOIC	6.25	4.17	3.35
LT1034IZ-2.5-ND	Dual 2.5V Reference, 20ppm/°C	TO-92	5.38	3.58	3.05
LT1236ACN8-5-ND	5V Precision Reference, 5ppm/°C	8-Dip	7.75	5.15	4.00
LT1236ACN8-5#PBF-ND	5V Precision Reference, 5ppm/°C* ***NEW!***	8-Dip	7.75	5.15	4.00
LT1236ACN8-10-ND	10V Precision Reference, 5ppm/°C	8-Dip	6.13	4.07	3.20
LT1236ACS8-5-ND	5V Precision Reference, 5ppm/°C	8-SOIC	7.75	5.15	4.00
LT1236ACS8-5#PBF-ND	5V Precision Reference, 5ppm/°C* ***NEW!***	8-SOIC	7.75	5.15	4.00
LT1236ACS8-10-ND	10V Precision Reference, 5ppm/°C	8-SOIC	6.38	4.24	3.30
LT1236ACS8-10#PBF-ND	10V Precision Reference, 5ppm/°C* ***NEW!***	8-SOIC	6.38	4.24	3.30
LT1236AIS8-5-ND	5V Precision Reference, 5ppm/°C	8-SOIC	10.25	6.81	5.32
LT1236AIS8-5#PBF-ND	5V Precision Reference, 5ppm/°C* ***NEW!***	8-SOIC	10.25	6.81	5.32
LT1236BCN8-5-ND	5V Precision Reference, 10ppm/°C	8-Dip	4.50	2.99	2.30
LT1236BCN8-10-ND	10V Precision Reference, 10ppm/°C	8-Dip	4.88	3.24	2.55
LT1236BCS8-5-ND	5V Precision Reference, 10ppm/°C	8-SOIC	4.50	2.99	2.30
LT1236BCS8-5#PBF-ND	5V Precision Reference, 10ppm/°C* ***NEW!***	8-SOIC	4.50	2.99	2.30
LT1236BCS8-10-ND	10V Precision Reference, 10ppm/°C	8-SOIC	4.88	3.24	2.55
LT1236BCS8-10#PBF-ND	10V Precision Reference, 10ppm/°C* ***NEW!***	8-SOIC	4.88	3.24	2.55
LT1236BIS8-5-ND	5V Precision Reference 10ppm/°C	8-SOIC	5.13	3.41	2.65
LT1236BIS8-5#PBF-ND	5V Precision Reference 10ppm/°C* ***NEW!***	8-SOIC	5.13	3.41	2.65
LT1236CCN8-5-ND	5V Precision Reference, 15ppm/°C	8-Dip	4.00	2.66	2.05
LT1236CCN8-5#PBF-ND	5V Precision Reference, 15ppm/°C* ***NEW!***	8-Dip	4.00	2.66	2.05
LT1236CCN8-10-ND	10V Precision Reference, 15ppm/°C	8-Dip	4.50	2.99	2.35
LT1236CCN8-10#PBF-ND	10V Precision Reference, 15ppm/°C* ***NEW!***	8-Dip	4.50	2.99	2.35
LT1236CCS8-5-ND	5V Precision Reference, 15ppm/°C	8-SOIC	4.00	2.66	2.05
LT1236CCS8-5#PBF-ND	5V Precision Reference, 15ppm/°C* ***NEW!***	8-SOIC	4.00	2.66	2.05
LT1389ACS8-1.25-ND	1.25V Nanopower Precision Shunt Voltage Reference	8-SOIC	11.13	7.39	5.57
LT1389ACS8-1.25#PBF-ND	1.25V Nanopower Precision Shunt Voltage Reference* ***NEW!***	8-SOIC	11.13	7.39	5.57
LT1389BCS8-1.25-ND	1.25V Nanopower Precision Shunt Voltage Reference	8-SOIC	6.50	4.32	3.25
LT1389BCS8-1.25#PBF-ND	1.25V Nanopower Precision Shunt Voltage Reference* ***NEW!***	8-SOIC	6.50	4.32	3.25
LT1389BCS8-2.5-ND	2.5V Nanopower Precision Shunt Voltage Reference	8-SOIC	6.50	4.32	3.25
LT1389BCS8-2.5#PBF-ND	2.5V Nanopower Precision Shunt Voltage Reference* ***NEW!***	8-SOIC	6.50	4.32	3.25
LT1389BCS8-4.096-ND	4.096V Nanopower Precision Shunt Voltage Reference	8-SOIC	6.50	4.32	3.25
LT1389BCS8-5-ND	5V Nanopower Precision Shunt Voltage Reference	8-SOIC	6.50	4.32	3.25
LT1431CN8-ND	Programmable Reference, .4% Tolerance	8-Dip	2.25	1.50	1.25
LT1431CN8#PBF-ND	Programmable Reference, .4% Tolerance* ***NEW!***	8-Dip	2.25	1.50	1.25
LT1431CS8-ND	Programmable Reference, .4% Tolerance	8-SOIC	3.13	2.08	1.80
LT1431CS8#PBF-ND	Programmable Reference, .4% Tolerance* ***NEW!***	8-SOIC	3.13	2.08	1.80
LT1431IN8-ND	Programmable Reference, .4% Tolerance	8-Dip	2.88	1.92	1.60
LT1431IZ-ND	Programmable Reference, .4% Tolerance	TO-92	2.13	1.42	1.22
LT1431IZ#PBF-ND	Programmable Reference, .4% Tolerance* ***NEW!***	TO-92	2.13	1.42	1.22
LT1460ACN8-2.5-ND	2.5V Micropower Precision Series Reference	8-Dip	6.00	3.99	3.30
LT1460ACN8-5-ND	5V Micropower Precision Series Reference	8-Dip	6.00	3.99	3.30
LT1460ACN8-10-ND	10V Micropower Precision Series Reference	8-Dip	5.50	3.66	2.85
LT1460ACS8-2.5-ND	2.5V Micropower Precision Series Reference	8-SOIC	6.25	4.15	3.45
LT1460ACS8-2.5#PBF-ND	2.5V Micropower Precision Series Reference* ***NEW!***	8-SOIC	6.25	4.15	3.45
LT1460ACS8-5-ND	5V Micropower Precision Series Reference	8-SOIC	6.25	4.15	3.45
LT1460ACS8-5#PBF-ND	5V Micropower Precision Series Reference* ***NEW!***	8-SOIC	6.25	4.15	3.45
LT1460ACS8-10-ND	10V Micropower Precision Series Bandgap Reference	8-SOIC	6.25	4.15	3.25
LT1460ACS8-10#PBF-ND	10V Micropower Precision Series Bandgap Ref.* ***NEW!***	8-SOIC	6.25	4.15	3.25
LT1460BIN8-5-ND	5V Micropower Precision Series Bandgap Reference	8-Dip	9.00	5.98	4.95
LT1460BIS8-2.5-ND	2.5V Micropower Precision Series Bandgap Reference	8-SOIC	9.13	6.06	5.05
LT1460BIS8-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.* ***NEW!***	8-SOIC	9.13	6.06	5.05
LT1460BIS8-5-ND	5V Micropower Precision Series Bandgap Reference	8-SOIC	9.13	6.06	5.05
LT1460BIS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.* ***NEW!***	8-SOIC	9.13	6.06	5.05
LT1460CCMS8-2.5-ND	2.5V Micropower Precision Series Bandgap Reference	8-MSOP	6.50	4.32	3.60
LT1460CCMS8-5-ND	5V Micropower Precision Series Bandgap Reference	8-MSOP	6.50	4.32	3.60
LT1460CCMS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.* ***NEW!***	8-MSOP	6.50	4.32	3.60
LT1460DCN8-2.5-ND	2.5V Micropower Precision Series Bandgap Reference	8-Dip	3.75	2.49	2.10
LT1460DCN8-5-ND	5V Micropower Precision Series Bandgap Reference	8-Dip	3.75	2.49	2.10
LT1460DCS8-2.5-ND	2.5V Micropower Precision Series Bandgap Reference	8-SOIC	4.00	2.66	2.20
LT1460DCS8-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.* ***NEW!***	8-SOIC	4.00	2.66	2.20
LT1460DCS8-5-ND	5V Micropower Precision Series Bandgap Reference	8-SOIC	4.00	2.66	2.20
LT1460DCS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.* ***NEW!***	8-SOIC	4.00	2.66	2.20
LT1460DCS8-10-ND	10V Micropower Precision Series Bandgap Reference	8-SOIC	4.00	2.66	2.20
LT1460DCS8-10#PBF-ND	10V Micropower Precision Series Bandgap Ref.* ***NEW!***	8-SOIC	4.00	2.66	2.20
LT1460EIN8-2.5-ND	2.5V Micropower Precision Series Bandgap Reference	8-Dip	4.25	2.83	2.35
LT1460EIS8-2.5-ND	2.5V Micropower Precision Series Bandgap Reference	8-SOIC	4.50	2.99	2.50
LT1460EIS8-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.* ***NEW!***	8-SOIC	4.50	2.99	2.50
LT1460EIS8-5-ND	5V Micropower Precision Series Bandgap Reference	8-SOIC	4.38	2.91	2.40
LT1460EIS8-5#PBF-ND	5V Micropower Precision Series Bandgap Ref.* ***NEW!***	8-SOIC	4.38	2.91	2.40
LT1460EIS8-10-ND	10V Micropower Precision Series Bandgap Reference	8-SOIC	4.38	2.91	2.40
LT1460FCMS8-5#PBF-ND	5V Micropower Precision Series Bandgap Reference* ***NEW!***	8-MSOP	4.25	2.83	2.30
LT1460FCMS8-10-ND	10V Micropower Precision Series Bandgap Reference	8-SOIC	4.25	2.83	2.35
LT1460FCMS8-10#PBF-ND	10V Micropower Precision Series Bandgap Ref.* ***NEW!***	8-SOIC	4.25	2.83	2.35
LT1460GCZ-2.5-ND	2.5V Micropower Precision Series Bandgap Reference	TO-92	3.00	2.00	1.65
LT1460GCZ-2.5#PBF-ND	2.5V Micropower Precision Series Bandgap Ref.* ***NEW!***	TO-92	3.00	2.00	1.65
LT1460GCZ-5-ND	5V Micropower Precision Series Bandgap Reference	TO-92	3.00	2.00	1.65
LT1460GIZ-5-ND	5V Micropower Precision Series Bandgap Reference	TO-92	3.25	2.16	1.75
LT1460GIZ-5#PBF-ND	5V Micropower Precision Series Bandgap Reference* ***NEW!***	TO-92	3.25	2.16	1.75
LT1460LHS8-2.5-ND	2.5V Precision Series Ref. with Extended Temp.	8-SOIC	5.00	3.32	2.85
LT1460LHS8-5-ND	5V Precision Series Reference with Extended Temp.	8-SOIC	4.88	3.24	2.75
LT1460MHS8-2.5-ND	2.5V Precision Series Reference with Extended Temp.	8-SOIC	4.75	3.16	2.40
LT1460MHS8-5-ND	5V Precision Series Reference with Extended Temp.	8-SOIC	4.63	3.08	2.32
LT1461ACS8-3-ND	3V Micropower Precision LDO Voltage Reference	8-SOIC	12.88	9.20	7.57
LT1461ACS8-3.3-ND	3.3V Micropower Precision LDO Voltage Reference	8-SOIC	12.88	9.20	7.57
LT1461ACS8-3.3#PBF-ND	3.3V Micropower Precision LDO Voltage Reference* ***NEW!***	8-SOIC	12.88	9.20	7.57
LT1461ACS8-4-ND	4.096V Micropower Precision LDO Voltage Reference	8-SOIC	10.75	7.68	6.32
LT1461ACS8-4#PBF-ND	4.096V Micropower Precision LDO Voltage Ref.* ***NEW!***	8-SOIC	10.75	7.68	6.32
LT1461ACS8-5-ND	5V Micropower Precision LDO Voltage Reference	8-SOIC	10.75	7.68	6.32
LT1461ACS8-5#PBF-ND	5V Micropower Precision LDO Voltage Reference* ***NEW!***	8-SOIC	10.75	7.68	6.32
LT1461BCS8-3.3-ND	3.3V, Micropower Precision LDO Voltage Reference	8-SOIC	8.88	5.90	4.70
LT1461BCS8-4-ND	4.096V, Micropower Precision LDO Voltage Reference	8-SOIC	7.38	5.27	4.34
LT1461BCS8-4#PBF-ND	4.096V, Micropower Precision LDO Voltage Ref.* ***NEW!***	8-SOIC	7.38	5.27	4.34
LT1461BCS8-5-ND	5V Micropower Precision LDO Voltage Reference	8-SOIC	7.38	5.27	4.34
LT1461BCS8-5#PBF-ND	5V Micropower Precision LDO Voltage Reference* ***NEW!***	8-SOIC	7.38	5.27	4.34
LT1461CCS8-3-ND	3V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461CCS8-3#PBF-ND	3V Micropower Precision LDO Voltage Reference* ***NEW!***	8-SOIC	3.00	2.00	1.75
LT1461CCS8-3.3-ND	3.3V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461CCS8-3.3#PBF-ND	3.3V Micropower Precision LDO Voltage Reference* ***NEW!***	8-SOIC	3.00	2.00	1.75
LT1461CCS8-4-ND	4.096V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461CCS8-4#PBF-ND	4.096V Micropower Precision LDO Voltage Ref.* ***NEW!***	8-SOIC	3.00	2.00	1.75
LT1461CCS8-5-ND	5V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461CCS8-5#PBF-ND	5V Micropower Precision LDO Voltage Reference* ***NEW!***	8-SOIC	3.00	2.00	1.75

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

LINEAR TECHNOLOGY REFERENCES *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1461DHS8-3-ND	3V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461DHS8-3#PBF-ND	3V Micropower Precision LDO Voltage Reference* ***NEW!***	8-SOIC	3.00	2.00	1.75
LT1461DHS8-3.3-ND	3.3V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461DHS8-4-ND	4.096V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461DHS8-5-ND	5V Micropower Precision LDO Voltage Reference	8-SOIC	3.00	2.00	1.75
LT1461DHS8-5#PBF-ND	5V Micropower Precision LDO Voltage Reference* ***NEW!***	8-SOIC	3.00	2.00	1.75
LT1634ACS8-1.25-ND	1.25V Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference* ***NEW!***	8-SOIC	9.38	6.23	4.70
LT1634ACS8-2.5-ND	2.5V Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-2.5#PBF-ND	2.5V Micropower Shunt Voltage Reference* ***NEW!***	8-SOIC	9.38	6.23	4.70
LT1634ACS8-4.096-ND	4.096V Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-4.096#PBF-ND	4.096V Micropower Shunt Voltage Reference* ***NEW!***	8-SOIC	9.38	6.23	4.70
LT1634ACS8-5-ND	5V Micropower Shunt Voltage Reference	8-SOIC	9.38	6.23	4.70
LT1634ACS8-5#PBF-ND	5V Micropower Shunt Voltage Reference* ***NEW!***	8-SOIC	9.38	6.23	4.70
LT1634AIS8-1.25-ND	1.25V Micropower Shunt Voltage Reference	8-SOIC	10.38	6.89	5.20
LT1634AIS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference* ***NEW!***	8-SOIC	10.38	6.89	5.20
LT1634AIS8-4.096-ND	4.096V Micropower Shunt Voltage Reference	8-SOIC	10.38	6.89	5.20
LT1634BCMS8-1.25-ND	1.25V Micropower Shunt Voltage Reference	8-MSOP	4.88	3.24	2.70
LT1634BCMS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference* ***NEW!***	8-MSOP	4.88	3.24	2.70
LT1634BCS8-1.25-ND	1.25V Micropower Shunt Voltage Reference	8-SOIC	4.38	2.91	2.40
LT1634BCS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference* ***NEW!***	8-SOIC	4.38	2.91	2.40
LT1634BCS8-2.5-ND	2.5V Micropower Shunt Voltage Reference	8-SOIC	4.38	2.91	2.40
LT1634BCS8-4.096-ND	4.096V Micropower Shunt Voltage Reference	8-SOIC	4.38	2.91	2.40
LT1634BCS8-4.096#PBF-ND	4.096V Micropower Shunt Voltage Reference* ***NEW!***	8-SOIC	4.38	2.91	2.40
LT1634BIS8-1.25-ND	1.25V Micropower Shunt Voltage Reference	8-SOIC	5.63	3.74	2.95
LT1634BIS8-1.25#PBF-ND	1.25V Micropower Shunt Voltage Reference* ***NEW!***	8-SOIC	5.63	3.74	2.95
LT1634BIS8-2.5-ND	2.5V Micropower Shunt Voltage Reference	8-SOIC	5.63	3.74	2.95
LT1634BIS8-2.5#PBF-ND	2.5V Micropower Shunt Voltage Reference* ***NEW!***	8-SOIC	5.63	3.74	2.95
LT1634CCZ-4.096-ND	4.096V Micropower Shunt Voltage Reference	TO-92	3.88	2.58	2.15
LT1790BCS6-1.25-ND	1.25V Micropower LDO Reference	SOT-23-6	2.73	1.81	1.41
LT1790BCS6-1.25#PBF-ND	1.25V Micropower LDO Reference* ***NEW!***	SOT-23-6	2.73	1.81	1.41
LT1790BCS6-2.048-ND	2.048V Micropower LDO Reference	SOT-23-6	2.73	1.81	1.41
LT1790BCS6-2.048#PBF-ND	2.048V Micropower LDO Reference* ***NEW!***	SOT-23-6	2.73	1.81	1.41
LT1790BCS62.048TR-ND	2.048V Micropower LDO Reference	SOT-23-6	3500.00/2,500		
LT1790BCS6-3-ND	3V Micropower LDO Reference	SOT-23-6	2.73	1.81	1.41
LT1790BCS6-3#PBF-ND	3V Micropower LDO Reference* ***NEW!***	SOT-23-6	2.73	1.81	1.41
LT1790BCS6-3TR-ND	3V Micropower LDO Reference	SOT-23-6	3500.00/2,500		
LT1790BCS6-3.3-ND	3.3V Micropower LDO Reference	SOT-23-6	2.73	1.81	1.41
LT1790BCS6-3.3#PBF-ND	3.3V Micropower LDO Reference* ***NEW!***	SOT-23-6	2.73	1.81	1.41
LT1790BCS6-3.3TR-ND	3.3V Micropower LDO Reference	SOT-23-6	3500.00/2,500		
LT1790BCS6-4.096-ND	4.096V Micropower LDO Reference	SOT-23-6	2.73	1.81	1.41
LT1790BCS6-4.096#PBF-ND	4.096V Micropower LDO Reference* ***NEW!***	SOT-23-6	2.73	1.81	1.41
LT1790BCS64.096TR-ND	4.096V Micropower LDO Reference	SOT-23-6	3500.00/2,500		
LT1790BCS6-5-ND	5V Micropower LDO Reference	SOT-23-6	2.73	1.81	1.41
LT1790BCS6-5#PBF-ND	5V Micropower LDO Reference* ***NEW!***	SOT-23-6	2.73	1.81	1.41
LTC1258CMS8-ND	Adj., Micropower LDO Bandgap Reference	8-MSOP	5.13	3.41	2.65
LTC1258CMS8#PBF-ND	Adj., Micropower LDO Bandgap Reference* ***NEW!***	8-MSOP	5.13	3.41	2.65
LTC1258CS8-ND	Adj., Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTC1258CS8-2.5-ND	2.5V Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTC1258CS8-3-ND	3V Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTC1258CS8-4.1-ND	4.1V Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTC1258CS8-5-ND	5V Micropower LDO Bandgap Reference	8-SOIC	4.13	2.74	2.30
LTZ1000ACH-ND	Ultra Precision Reference	8-MC	81.75	54.50	46.70
LTZ1000ACH#PBF-ND	Ultra Precision Reference* ***NEW!***	8-MC	81.75	54.50	46.70
LTZ1000CH-ND	Ultra Precision Reference	TO-5	64.25	42.85	36.71

LINEAR TECHNOLOGY DATA CONVERSION

General Purpose ADC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1090ACN-ND	Single Chip 8-Channel, 10-Bit Data Acquisition System	20-Dip	25.75	17.15	15.80
LTC1090ACN#PBF-ND	Single Chip 8-Ch., 10-Bit Data Acquisition System* ***NEW!***	20-Dip	25.75	17.15	15.80
LTC1090CN-ND	Single Chip 8-Channel, 10-Bit Data Acquisition System	20-Dip	17.50	11.65	9.90
LTC1090CN#PBF-ND	Single Chip 8-Ch., 10-Bit Data Acquisition System* ***NEW!***	20-Dip	17.50	11.65	9.90
LTC1091CN8-ND	Single Chip 2-Channel, 10-Bit Data Acquisition System	8-Dip	17.50	11.70	9.90
LTC1091CN8#PBF-ND	Single Chip 2-Ch., 10-Bit Data Acquisition System* ***NEW!***	8-Dip	17.50	11.70	9.90
LTC1092CN8-ND	Single Chip 1-Channel, 10-Bit Data Acquisition System	8-Dip	17.50	11.65	9.90
LTC1092CN8#PBF-ND	Single Chip 1-Ch., 10-Bit Data Acquisition System* ***NEW!***	8-Dip	17.50	11.65	9.90
LTC1093CN-ND	Single Chip 6-Channel, 10-Bit Data Acquisition System	16-Dip	17.50	11.65	9.90
LTC1093CN#PBF-ND	Single Chip 6-Ch., 10-Bit Data Acquisition System* ***NEW!***	16-Dip	17.50	11.65	9.90
LTC1094CN-ND	Single Chip 8-Channel, 10-Bit Data Acquisition System	20-Dip	17.50	11.65	9.90
LTC1094CN#PBF-ND	Single Chip 8-Ch., 10-Bit Data Acquisition System* ***NEW!***	20-Dip	17.50	11.65	9.90
LTC1096ACS8-ND	Micropower Sampling 8-Bit Serial In/Out ADC	8-SOIC	6.75	4.50	3.60
LTC1096CS8-ND	Micropower Sampling 8-Bit Serial In/Out ADC	8-SOIC	5.50	3.70	2.90
LTC1096CS8#PBF-ND	Micropower Sampling 8-Bit Serial In/Out ADC* ***NEW!***	8-SOIC	5.50	3.70	2.90
LTC1096LIS8-ND	Micropower Sampling 8-Bit Serial In/Out ADC	8-SOIC	6.38	4.25	3.45
LTC1098CN8-ND	Micropower Sampling 8-Bit Serial In/Out ADC	8-Dip	5.50	3.70	2.90
LTC1098CN8#PBF-ND	Micropower Sampling 8-Bit Serial In/Out ADC* ***NEW!***	8-Dip	5.50	3.70	2.90
LTC1098CS8-ND	Micropower Sampling 8-Bit Serial In/Out ADC	8-SOIC	5.50	3.70	2.90
LTC1098CS8#PBF-ND	Micropower Sampling 8-Bit Serial In/Out ADC* ***NEW!***	8-SOIC	5.50	3.70	2.90
LTC1099CN-ND	8-Bit, High Speed ADC with Sample and Hold	20-Dip	14.88	9.90	8.25
LTC1099CN#PBF-ND	8-Bit, High Speed ADC with Sample and Hold* ***NEW!***	20-Dip	14.88	9.90	8.25
LTC1099CSW-ND	8-Bit, High Speed ADC with Sample and Hold	20-SOIC	19.38	12.90	10.70
LTC1099CSW#PBF-ND	8-Bit, High Speed ADC with Sample and Hold* ***NEW!***	20-SOIC	19.38	12.90	10.70
LTC1196-1ACS8-ND	8-Bit, 600nS, 1MHz, Sampling ADC	8-SOIC	7.63	5.10	4.35
LTC1196-2ACS8-ND	8-Bit, 710nS, 1MHz, Sampling ADC	8-SOIC	5.50	3.70	3.15
LTC1196-2BCS8-ND	8-Bit, 710nS, 1MHz, Sampling ADC	8-SOIC	4.38	2.91	2.50
LTC1196-2BCS8#PBF-ND	8-Bit, 710nS, 1MHz, Sampling ADC* ***NEW!***	8-SOIC	4.38	2.91	2.50
LTC1197CS8-ND	10-Bit, 500ksps ADC with Shutdown	8-SOIC	4.88	3.24	2.60
LTC1197CS8#PBF-ND	10-Bit, 500ksps ADC with Shutdown* ***NEW!***	8-SOIC	4.88	3.24	2.60
LTC1197IS8-ND	10-Bit, 500ksps ADC with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.80
LTC1197IS8#PBF-ND	10-Bit, 500ksps ADC with Shutdown, Ind. Temp.* ***NEW!***	8-SOIC	5.25	3.49	2.80
LTC1197LCMS8-ND	3V, 10-Bit, ADC with Shutdown	8-MSOP	5.50	3.66	2.95
LTC1197LCS8-ND	3V, 10-Bit, ADC with Shutdown	8-SOIC	4.88	3.24	2.60
LTC1197LCS8#PBF-ND	3V, 10-Bit, ADC with Shutdown* ***NEW!***	8-SOIC	4.88	3.24	2.60
LTC1197LIS8-ND	3V, 10-Bit, ADC with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.80
LTC1197LIS8#PBF-ND	3V, 10-Bit, ADC with Shutdown, Ind. Temp.* ***NEW!***	8-SOIC	5.25	3.49	2.80
LTC1198-2BCS8-ND	2-Channel, 8-Bit, Sampling ADC	8-SOIC	5.25	3.50	3.00
LTC1198-2BCS8#PBF-ND	2-Channel, 8-Bit, Sampling ADC* ***NEW!***	8-SOIC	5.25	3.50	3.00
LTC1199CMS8-ND	10-Bit ADC with Shutdown	8-MSOP	5.50	3.66	2.95

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1199CS8-ND	10-Bit ADC with Shutdown	8-SOIC	4.88	3.24	2.60
LTC1199CS8#PBF-ND	10-Bit ADC with Shutdown* ***NEW!***	8-SOIC	4.88	3.24	2.60
LTC1199IMS8-ND	10-Bit ADC with Shutdown	8-MSOP	6.13	4.07	3.25
LTC1199IS8-ND	10-Bit ADC with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.80
LTC1199IS8#PBF-ND	10-Bit ADC with Shutdown, Ind. Temp.* ***NEW!***	8-SOIC	5.25	3.49	2.80
LTC1199LIMS8-ND	10-Bit ADC with Shutdown	8-MSOP	6.13	4.07	3.25
LTC1199LIMS8#PBF-ND	10-Bit ADC with Shutdown* ***NEW!***	8-MSOP	6.13	4.07	3.25
LTC1199LIS8-ND	10-Bit ADC with Shutdown, Ind. Temp.	8-SOIC	5.25	3.49	2.80
LTC1272-3ACSW-ND	12-Bit, 3µS, 250KHz Sampling ADC	24-SOIC	35.00	23.35	18.76
LTC1272-3CCN-ND	12-Bit, 3µS, 250KHz Sampling ADC	24-Dip	20.63	13.75	11.05
LTC1272-3CCSW-ND	12-Bit, 3µS, 250KHz Sampling ADC	24-SOIC	22.75	15.15	12.15
LTC1272-8CCN-ND	12-Bit, 8µS, 250KHz Sampling ADC	24-Dip	15.00	10.00	8.00
LTC1272-8CCN#PBF-ND	12-Bit, 8µS, 250KHz Sampling ADC* ***NEW!***	24-Dip	15.00	10.00	8.00
LTC1273BCN-ND	12-Bit, 2.7µS, Sampling ADC	24-Dip	23.50	15.65	12.55
LTC1273BCN#PBF-ND	12-Bit, 2.7µS, Sampling ADC* ***NEW!***	24-Dip	23.50	15.65	12.55
LTC1273BCSW-ND	12-Bit, 2.7µS, Sampling ADC	24-SOIC	25.88	17.25	13.80
LTC1273BCSW#PBF-ND	12-Bit, 2.7µS, Sampling ADC* ***NEW!***	24-SOIC	25.88	17.25	13.80
LTC1274CSW-ND	12-Bit, 100ksps ADC with Shutdown	24-SOIC	14.88	9.90	8.25
LTC1274CSW#PBF-ND	12-Bit, 100ksps ADC with Shutdown* ***NEW!***	24-SOIC	14.88	9.90	8.25
LTC1275BCN-ND	12-Bit, 2.7µS, Sampling ADC	24-Dip	22.00	14.65	11.75
LTC1275BCSW-ND	12-Bit, 2.7µS, Sampling ADC	24-SOIC	24.25	16.15	12.95
LTC1276BCN-ND	12-Bit, 2.7µS, Sampling ADC	24-Dip	22.00	14.65	11.75
LTC1276BCSW-ND	12-Bit, 2.7µS, Sampling ADC	24-SOIC	24.25	16.15	12.95
LTC1277CSW-ND	12-Bit, 100ksps ADC with Shutdown	24-SOIC	15.63	10.40	8.70
LTC1278-4CN-ND	12-Bit, 400ksps, Sampling ADC with Shutdown	24-Dip	24.00	16.00	12.85
LTC1278-4CN#PBF-ND	12-Bit, 400ksps, Sampling ADC with Shutdown* ***NEW!***	24-Dip	24.00	16.00	12.85
LTC1278-4ISW-ND	12-Bit, 400ksps, Sampling ADC with Shutdown	24-SOIC	27.50	18.35	14.70
LTC1278-4ISW#PBF-ND	12-Bit, 400ksps, Sampling ADC with Shutdown* ***NEW!***	24-SOIC	27.50	18.35	14.70
LTC1278-5CSW-ND	12-Bit, 500ksps, Sampling ADC with Shutdown	24-SOIC	25.63	17.10	14.65
LTC1278-5CSW#PBF-ND	12-Bit, 500ksps, Sampling ADC with Shutdown* ***NEW!***	24-SOIC	25.63	17.10	14.65
LTC1278-5ISW-ND	12-Bit, 500ksps, Sampling ADC with Shutdown	24-SOIC	29.38	19.60	15.70
LTC1279CG-ND	12-Bit, 600ksps, Sampling ADC with Shutdown	24-SSOP	25.88	17.19	14.20
LTC1279CSW-ND	12-Bit, 600ksps, Sampling ADC with Shutdown	24-SOIC	25.50	16.94	13.95
LTC1279CSW#PBF-ND	12-Bit, 600ksps, Sampling ADC with Shutdown* ***NEW!***	24-SOIC	25.50	16.94	13.95
LTC1282BCSW-ND	3V, 12-Bit, Sampling ADC with Reference	24-SOIC	28.13	18.75	14.75
LTC1285CN8-ND	3V, 12-Bit, Micropower Sampling ADC	8-Dip	11.88	7.90	6.50
LTC1285CN8#PBF-ND	3V, 12-Bit, Micropower Sampling ADC* ***NEW!***	8-Dip	11.88	7.90	6.50
LTC1285CS8-ND	3V, 12-Bit, Micropower Sampling ADC	8-SOIC	12.50	8.35	6.95
LTC1285CS8#PBF-ND	3V, 12-Bit, Micropower Sampling ADC* ***NEW!***	8-SOIC	12.50	8.35	6.95
LTC1286CN8-ND	12-Bit, Micropower Sampling ADC	8-Dip	9.88	6.60	5.25
LTC1286CN8#PBF-ND	12-Bit, Micropower Sampling ADC* ***NEW!***	8-Dip	9.88	6.60	5.25
LTC1286CS8-ND	12-Bit, Micropower Sampling ADC	8-SOIC	10.63	7.10	5.65
LTC1286CS8#PBF-ND	12-Bit, Micropower Sampling ADC* ***NEW!***	8-SOIC	10.63	7.10	5.65
LTC1286IN8-ND	12-Bit, Micropower Sampling ADC	8-Dip	12.38	8.25	6.55
LTC1286IS8#PBF-ND	12-Bit, Micropower Sampling ADC* ***NEW!***	8-SOIC	13.25	8.85	7.05
LTC1288CN8-ND	3V, 12-Bit, Micropower Serial In/Out Sampling ADC	8-Dip	11.88	7.90	6.50
LTC1288CN8#PBF-ND	3V, 12-Bit, Micropower Serial In/Out Sampling ADC* ***NEW!***	8-Dip	11.88	7.90	6.50
LTC1288CS8-ND	3V, 12-Bit, Micropower Serial In/Out Sampling ADC	8-SOIC	12.50	8.35	6.95
LTC1288CS8#PBF-ND	3V, 12-Bit, Micropower Serial In/Out Sampling ADC* ***NEW!***	8-SOIC	12.50	8.35	6.95
LTC1289CCSW-ND	3V, 12-Bit, Data Acquisition System	20-SOIC	41.38	27.60	22.06
LTC1290BCSW-ND	12-Bit, Data Acquisition System	20-SOIC	45.00	30.00	23.96
LTC1290CCN-ND	12-Bit, Data Acquisition System	20-Dip	30.00	20.00	15.95
LTC1290CCN#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-Dip	30.00	20.00	15.95
LTC1290CCSW-ND	12-Bit, Data Acquisition System	20-SOIC	36.00	24.00	19.15
LTC1290CCSW#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-SOIC	36.00	24.00	19.15
LTC1290CIN-ND	12-Bit, Data Acquisition System, Ind. Temp.	20-Dip	42.38	28.25	23.35
LTC1290CIN#PBF-ND	12-Bit, Data Acquisition System, Ind. Temp.* ***NEW!***	20-Dip	42.38	28.25	23.35
LTC1290CISW-ND	12-Bit, Data Acquisition System, Ind. Temp.	20-SOIC	42.38	28.25	23.35
LTC1290CISW#PBF-ND	12-Bit, Data Acquisition System, Ind. Temp.* ***NEW!***	20-SOIC	42.38	28.25	23.35
LTC1290DCN-ND	12-Bit, Data Acquisition System	20-Dip	12.50	8.35	6.70
LTC1290DCN#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-Dip	12.50	8.35	6.70
LTC1290DCSW-ND	12-Bit, Data Acquisition System	20-SOIC	21.75	14.50	11.35
LTC1290DCSW#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-SOIC	21.75	14.50	11.35
LTC1291CCN8-ND	12-Bit, Data Acquisition System	8-Dip	28.13	18.75	15.00
LTC1291CCN8#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	8-Dip	28.13	18.75	15.00
LTC1291DCN8-ND	12-Bit, Data Acquisition System	8-Dip	18.13	12.10	9.50
LTC1291DCN8#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	8-Dip	18.13	12.10	9.50
LTC1292CCN8-ND	12-Bit, Data Acquisition System	8-Dip	28.13	18.75	15.00
LTC1292CCN8#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	8-Dip	28.13	18.75	15.00
LTC1292DCN8-ND	12-Bit, Data Acquisition System	8-Dip	18.13	12.10	9.50
LTC1292DCN8#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	8-Dip	18.13	12.10	9.50
LTC1293BCSW-ND	12-Bit, Data Acquisition System	16-SOIC	45.00	30.00	23.96
LTC1293CCN-ND	12-Bit, Data Acquisition System	16-Dip	30.00	20.00	15.95
LTC1293CCN#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	16-Dip	30.00	20.00	15.95
LTC1293DCN-ND	12-Bit, Data Acquisition System	16-Dip	18.13	12.10	9.50
LTC1293DCN#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	16-Dip	18.13	12.10	9.50
LTC1293DCSW-ND	12-Bit, Data Acquisition System	16-SOIC	21.75	14.50	11.35
LTC1293DCSW#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	16-SOIC	21.75	14.50	11.35
LTC1294BCSW-ND	12-Bit, Data Acquisition System	20-SOIC	45.00	30.00	23.96
LTC1294CCN-ND	12-Bit, Data Acquisition System	20-Dip	28.13	18.75	15.00
LTC1294CCN#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-Dip	28.13	18.75	15.00
LTC1294CCSW-ND	12-Bit, Data Acquisition System	20-SOIC	36.00	24.00	19.15
LTC1294DCN-ND	12-Bit, Data Acquisition System	20-Dip	18.13	12.10	9.50
LTC1294DCN#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-Dip	18.13	12.10	9.50
LTC1294DCSW-ND	12-Bit, Data Acquisition System	20-SOIC	21.75	14.50	11.35
LTC1294DCSW#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-SOIC	21.75	14.50	11.35
LTC1296BCN-ND	12-Bit, Data Acquisition System	20-Dip	24.38	16.25	13.00
LTC1296BCN#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-Dip	24.38	16.25	13.00
LTC1296BCSW-ND	12-Bit, Data Acquisition System	20-SOIC	25.00	16.65	13.35
LTC1296BCSW#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-SOIC	25.00	16.65	13.35
LTC1296CCN-ND	12-Bit, Data Acquisition System	20-Dip	17.38	11.60	9.25
LTC1296CCSW-ND	12-Bit, Data Acquisition System	20-SOIC	17.88	11.90	9.50
LTC1296CCSW#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-SOIC	17.88	11.90	9.50
LTC1296DCN-ND	12-Bit, Data Acquisition System	20-Dip	15.88	10.60	8.45
LTC1296DCN#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-Dip	15.88	10.60	8.45
LTC1296DCSW-ND	12-Bit, Data Acquisition System	20-SOIC	16.25	10.85	8.65
LTC1296DCSW#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	20-SOIC	16.25	10.85	8.65
LTC1297DCN8-ND	12-Bit, Data Acquisition System	8-Dip	21.75	14.50	11.40
LTC1297DCN8#PBF-ND	12-Bit, Data Acquisition System* ***NEW!***	8-Dip	21.75	14.50	11.40
LTC1298CN8-ND	12-Bit, Sampling ADC	8-Dip	9.88	6.60	5.25
LTC1298CN8#PBF-ND	12-Bit, Sampling ADC*	8-Dip	9.88	6.60	5.25
LTC1298CS8-ND	12-Bit, Sampling ADC	8-SOIC	10.63	7.10	5.65
LTC1298CS8#PBF-ND	12-Bit, Sampling ADC* ***NEW!***	8-SOIC	10.63	7.10	5.65
LTC1298IN8-ND	12-Bit, Sampling ADC, Ind. Temp.	8-Dip	12.38	8.25	6.55
LTC1298IN8#PBF-ND	12-Bit, Sampling ADC, Ind. Temp* ***NEW!***	8-Dip	12.38	8.25	6.55

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1298IS8-ND	12-Bit, Sampling ADC, Ind. Temp.	8-SOIC	13.25	8.85	7.05
LTC1298IS8#PBF-ND	12-Bit, Sampling ADC, Ind. Temp* ***NEW!***	8-SOIC	13.25	8.85	7.05
LTC1392CN8-ND	10-Bit Micropower Data Acquisition System	8-Dip	7.50	5.00	4.10
LTC1392CN8#PBF-ND	10-Bit Micropower Data Acquisition System* ***NEW!***	8-Dip	7.50	5.00	4.10
LTC1392CS8-ND	10-Bit Micropower Data Acquisition System	8-SOIC	7.63	5.10	4.20
LTC1400CS8-ND	12-Bit, 400ksps ADC with Shutdown	8-SOIC	10.00	6.64	5.25
LTC1400CS8#PBF-ND	12-Bit, 400ksps ADC with Shutdown* ***NEW!***	8-SOIC	10.00	6.64	5.25
LTC1400IS8-ND	12-Bit, 400ksps ADC with Shutdown, Ind. Temp.	8-SOIC	11.13	7.39	5.85
LTC1400IS8#PBF-ND	12-Bit, 400ksps ADC with Shutdown, Ind. Temp* ***NEW!***	8-SOIC	11.13	7.39	5.85
LTC1401CS8-ND	12-Bit, 400ksps ADC with Shutdown	8-SOIC	6.50	4.32	3.40
LTC1404CS8-ND	12-Bit, 600ksps ADC with Shutdown	8-SOIC	10.50	6.98	5.50
LTC1404CS8#PBF-ND	12-Bit, 600ksps ADC with Shutdown* ***NEW!***	8-SOIC	10.50	6.98	5.50
LTC1404IS8-ND	12-Bit, 600ksps ADC with Shutdown, Ind. Temp.	8-SOIC	11.50	7.64	6.05
LTC1404IS8#PBF-ND	12-Bit, 600ksps ADC with Shutdown, Ind. Temp* ***NEW!***	8-SOIC	11.50	7.64	6.05
LTC1410CSW-ND	12-Bit, 1.25msps Sampling ADC, Ind. Temp.	28-SOIC	21.25	14.11	10.65
LTC1410CSW#PBF-ND	12-Bit, 1.25msps Sampling ADC, Ind. Temp* ***NEW!***	28-SOIC	21.25	14.11	10.65
LTC1411CG-ND	Single 14-Bit, 2.5msps ADC	36-SSOP	38.25	25.50	21.85
LTC1411IG-ND	Single 14-Bit, 2.5msps ADC	36-SSOP	42.50	28.35	24.30
LTC1412CG-ND	12-Bit, 3msps Sampling ADC	28-SSOP	21.38	14.20	10.69
LTC1412CG#PBF-ND	12-Bit, 3msps Sampling ADC* ***NEW!***	28-SSOP	21.38	14.20	10.69
LTC1412IG-ND	12-Bit 3msps Sampling ADC, Ind. Temp.	28-SSOP	23.38	15.53	11.69
LTC1414CGN-ND	14-Bit, 2.2msps Sampling ADC	28-SSOP	34.00	22.65	18.15
LTC1414CGN#PBF-ND	14-Bit, 2.2msps Sampling ADC* ***NEW!***	28-SSOP	34.00	22.65	18.15
LTC1414IGN-ND	14-Bit, 2.2msps Sampling ADC, Ind. Temp.	28-SSOP	38.25	25.50	21.85
LTC1415CG-ND	12-Bit, 1.25msps Sampling ADC	28-SSOP	22.25	14.78	11.15
LTC1415CG#PBF-ND	12-Bit, 1.25msps Sampling ADC* ***NEW!***	28-SSOP	22.25	14.78	11.15
LTC1415CSW-ND	12-Bit, 1.25msps Sampling ADC	28-SOIC	21.25	14.11	10.65
LTC1415CSW#PBF-ND	12-Bit, 1.25msps Sampling ADC* ***NEW!***	28-SOIC	21.25	14.11	10.65
LTC1415IG-ND	12-Bit, 1.25msps Sampling ADC, Ind. Temp.	28-SSOP	24.25	16.11	12.15
LTC1415IG#PBF-ND	12-Bit, 1.25msps Sampling ADC, Ind. Temp* ***NEW!***	28-SSOP	24.25	16.11	12.15
LTC1415ISW-ND	12-Bit, 1.25msps Sampling ADC, Ind. Temp.	28-SOIC	23.25	15.44	11.65
LTC1415ISW#PBF-ND	12-Bit, 1.25msps Sampling ADC, Ind. Temp* ***NEW!***	28-SOIC	23.25	15.44	11.65
LTC1416CG#PBF-ND	14-Bit, 400ksps Sampling ADC, Ind. Temp* ***NEW!***	28-SSOP	14.75	9.80	7.40
LTC1416IG-ND	14-Bit, 400ksps Sampling ADC, Ind. Temp.	28-SSOP	15.75	10.46	7.88
LTC1416IG#PBF-ND	14-Bit, 400ksps Sampling ADC, Ind. Temp* ***NEW!***	28-SSOP	15.75	10.46	7.88
LTC1417ACGN-ND	14-Bit, 400ksps Sampling ADC	16-SSOP	20.00	13.28	10.00
LTC1417ACGN#PBF-ND	14-Bit, 400ksps Sampling ADC* ***NEW!***	16-SSOP	20.00	13.28	10.00
LTC1417CGN-ND	14-Bit, 400ksps Sampling ADC	16-SSOP	16.25	10.79	8.15
LTC1417CGN#PBF-ND	14-Bit, 400ksps Sampling ADC* ***NEW!***	16-SSOP	16.25	10.79	8.15
LTC1418ACG-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O	28-SSOP	22.25	14.78	11.15
LTC1418ACG#PBF-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O* ***NEW!***	28-SSOP	22.25	14.78	11.15
LTC1418ACN-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O	28-Dip	21.75	14.45	10.90
LTC1418AIG-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O, Ind. Temp.	28-SSOP	23.88	15.86	11.95
LTC1418AIN-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O, Ind. Temp.	28-Dip	23.38	15.53	11.70
LTC1418CG-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O, Ind. Temp.	28-SSOP	17.25	11.46	8.65
LTC1418CG#PBF-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O, Ind. Temp* ***NEW!***	28-SSOP	17.25	11.46	8.65
LTC1418CN-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O	28-Dip	16.75	11.13	8.40
LTC1418CN#PBF-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O* ***NEW!***	28-Dip	16.75	11.13	8.40
LTC1418IN-ND	14-Bit, 200ksps ADC, Serial/Parallel I/O, Ind. Temp.	28-Dip	18.38	12.21	9.20
LTC1419ACG-ND	14-Bit, 800ksps Sampling ADC	28-SSOP	54.38	36.11	27.20
LTC1419ACG#PBF-ND	14-Bit, 800ksps Sampling ADC* ***NEW!***	28-SSOP	54.38	36.11	27.20
LTC1419ACSW-ND	14-Bit, 800ksps Sampling ADC	28-SOIC	53.50	35.53	26.75
LTC1419ACSW#PBF-ND	14-Bit, 800ksps Sampling ADC* ***NEW!***	28-SOIC	53.50	35.53	26.75
LTC1419CG-ND	14-Bit, 800ksps Sampling ADC	28-SSOP	32.50	21.58	16.25
LTC1419CG#PBF-ND	14-Bit, 800ksps Sampling ADC* ***NEW!***	28-SSOP	32.50	21.58	16.25
LTC1419CSW-ND	14-Bit, 800ksps Sampling ADC	28-SOIC	32.25	21.42	16.13
LTC1419CSW#PBF-ND	14-Bit, 800ksps Sampling ADC* ***NEW!***	28-SOIC	32.25	21.42	16.13
LTC1419IG-ND	14-Bit, 800ksps Sampling ADC, Ind. Temp.	28-SSOP	36.25	24.07	18.15
LTC1419IG#PBF-ND	14-Bit, 800ksps Sampling ADC, Ind. Temp* ***NEW!***	28-SSOP	36.25	24.07	18.15
LTC1594CS-ND	4-Channel, 12-Bit, 5V, Sampling Serial ADC	16-SOIC	11.25	7.47	6.00
LTC1594CS#PBF-ND	4-Channel, 12-Bit, 5V, Sampling Serial ADC* ***NEW!***	16-SOIC	11.25	7.47	6.00
LTC1594IS-ND	4-Channel, 12-Bit, 5V, Sampling Serial ADC	16-SOIC	13.00	8.64	6.95
LTC1594IS#PBF-ND	4-Channel, 12-Bit, 5V, Sampling Serial ADC* ***NEW!***	16-SOIC	13.00	8.64	6.95
LTC1594LCS-ND	4-Channel, 12-Bit, 5V, Sampling Serial ADC	16-SOIC	11.25	7.47	6.00
LTC1594LIS-ND	4-Channel, 12-Bit, 5V, Sampling Serial ADC	16-SOIC	13.00	8.64	6.95
LTC1598CG-ND	8-Channel, 12-Bit, 5V, Sampling Serial ADC	24-SSOP	11.50	7.64	6.20
LTC1598CG#PBF-ND	8-Channel, 12-Bit, 5V, Sampling Serial ADC* ***NEW!***	24-SSOP	11.50	7.64	6.20
LTC1598IG-ND	8-Channel, 12-Bit, 5V, Sampling Serial ADC	24-SSOP	13.25	8.80	7.10
LTC1598IG#PBF-ND	8-Channel, 12-Bit, 5V, Sampling Serial AD* ***NEW!***	24-SSOP	13.25	8.80	7.10
LTC1598LCG-ND	8-Channel, 12-Bit, 5V, Sampling Serial ADC	24-SSOP	11.63	7.75	6.45
LTC1598LCG#PBF-ND	8-Channel, 12-Bit, 5V, Sampling Serial ADC* ***NEW!***	24-SSOP	11.63	7.75	6.45
LTC1603CG-ND	High Speed, 16-Bit, 250ksps Sampling ADC	36-SSOP	20.38	13.60	11.30
LTC1604ACG-ND	16-Bit, 333ksps Sampling ADC with Shutdown	36-SSOP	58.75	39.01	29.38
LTC1604AIG-ND	16-Bit, 333ksps Sampling ADC with Shutdown	36-SSOP	63.13	41.92	31.57
LTC1604AIG#PBF-ND	16-Bit, 333ksps Sampling ADC with Shutdown* ***NEW!***	36-SSOP	63.13	41.92	31.57
LTC1604CG-ND	16-Bit, 333ksps Sampling ADC with Shutdown	36-SSOP	44.50	29.55	22.25
LTC1604CG#PBF-ND	16-Bit, 333ksps Sampling ADC with Shutdown* ***NEW!***	36-SSOP	44.50	29.55	22.25
LTC1605ACG-ND	16-Bit, 100ksps Sampling ADC	28-SSOP	49.63	32.96	24.85
LTC1605ACG#PBF-ND	16-Bit, 100ksps Sampling ADC* ***NEW!***	28-SSOP	49.63	32.96	24.85
LTC1605ACSW-ND	16-Bit, 100ksps Sampling ADC	28-SOIC	48.88	32.46	24.45
LTC1605AIG-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp.	28-SSOP	51.00	33.87	25.50
LTC1605AISW-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp.	28-SOIC	51.00	33.87	25.50
LTC1605AISW#PBF-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp* ***NEW!***	28-SOIC	51.00	33.87	25.50
LTC1605CN-ND	16-Bit, 100ksps Sampling ADC	28-Dip	36.13	23.99	18.07
LTC1605CN#PBF-ND	16-Bit, 100ksps Sampling ADC* ***NEW!***	28-Dip	36.13	23.99	18.07
LTC1605CSW-ND	16-Bit, 100ksps Sampling ADC	28-SOIC	36.13	23.99	18.07
LTC1605CSW#PBF-ND	16-Bit, 100ksps Sampling ADC* ***NEW!***	28-SOIC	36.13	23.99	18.07
LTC1605IG-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp.	28-SSOP	39.50	26.23	20.00
LTC1605IN-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp.	28-Dip	38.25	25.40	19.15
LTC1605IN#PBF-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp* ***NEW!***	28-Dip	38.25	25.40	19.15
LTC1605ISW-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp.	28-SOIC	38.25	25.40	19.15
LTC1605ISW#PBF-ND	16-Bit, 100ksps Sampling ADC, Ind. Temp* ***NEW!***	28-SOIC	38.25	25.40	19.15
LTC1605-1CG-ND	16-Bit, 100ksps Sampling ADC	28-SSOP	36.88	24.49	18.71
LTC1605-1CG#PBF-ND	16-Bit, 100ksps Sampling ADC* ***NEW!***	28-SSOP	36.88	24.49	18.71
LTC1605-2CG-ND	16-Bit, 100ksps Sampling ADC	28-SSOP	36.88	24.49	18.71
LTC1605-2CG#PBF-ND	16-Bit, 100ksps Sampling ADC* ***NEW!***	28-SSOP	36.88	24.49	18.71
LTC1608ACG-ND	16-Bit, 500ksps Sampling ADC with Shutdown	36-SSOP	49.13	32.62	25.20
LTC1608ACG#PBF-ND	16-Bit, 500ksps Sampling ADC with Shutdown* ***NEW!***	36-SSOP	49.13	32.62	25.20
LTC1608CG-ND	16-Bit, 500ksps Sampling ADC with Shutdown	36-SSOP	35.00	23.24	17.50
LTC1608CG#PBF-ND	16-Bit, 500ksps Sampling ADC with Shutdown* ***NEW!***	36-SSOP	35.00	23.24	17.50
LTC1609CSW-ND	16-Bit, 200ksps Serial Sampling ADC	20-SOIC	31.75	21.09	15.88
LTC1609CSW#PBF-ND	16-Bit, 200ksps Serial Sampling ADC* ***NEW!***	20-SOIC	31.75	21.09	15.88
LTC1609IG-ND	16-Bit, 200ksps Sampling ADC, Ind. Temp.	28-SSOP	35.00	23.24	17.50
LTC1609IG#PBF-ND	16-Bit, 200ksps Sampling ADC, Ind. Temp* ***NEW!***	28-SSOP	35.00	23.24	17.50
LTC1609ISW-ND	16-Bit, 200ksps Serial Sampling ADC	20-SOIC	35.00	23.24	17.50
LTC1609ISW#PBF-ND	16-Bit, 200ksps Serial Sampling ADC* ***NEW!***	20-SOIC	35.00	23.24	17.50
LTC1850CFW-ND	8-Channel, 10-Bit, 1.25msps Sampling ADC	48-TSSOP	12.13	8.06	6.50
LTC1851CFW-ND	8-Channel, 12-Bit, 1.25msps Sampling ADC	48-TSSOP	14.63	9.72	7.85
LTC1851CFW#PBF-ND	8-Channel, 12-Bit, 1.25msps Sampling ADC* ***NEW!***	48-TSSOP	14.63	9.72	7.85
LTC1852CFW-ND	8-Channel, 10-Bit, 400ksps, Low Power ADC	48-TSSOP	12.13	8.06	6.50
LTC1853CFW-ND	8-Channel, 12-Bit, 400ksps, Low Power ADC	48-TSSOP	14.63	9.72	7.85
LTC1853CFW#PBF-ND	8-Channel, 12-Bit, 400ksps, Low Power ADC* ***NEW!***	48-TSSOP	14.63	9.72	7.85
LTC1860CMS8-ND	1-Channel, 12-Bit, 250ksps ADC	8-MSOP	4.88	3.24	2.65
LTC1860CMS8#PBF-ND	1-Channel, 12-Bit, 250ksps ADC* ***NEW!***	8-MSOP	4.88	3.24	2.65
LTC1860CS8-ND	1-Channel, 12-Bit, 250ksps ADC	8-SOIC	4.75	3.16	2.60
LTC1860CS8#PBF-ND	1-Channel, 12-Bit, 250ksps ADC* ***NEW!***	8-SOIC	4.75	3.16	2.60
LTC1860LCS8-ND	3V, 1-Channel, 12-Bit, 150ksps ADC	8-SOIC	5.50	3.66	3.00
LTC1861CMS-ND	2-Channel, 12-Bit, 250ksps ADC	10-MSOP	6.25	4.15	3.50
LTC1861CMS#PBF-ND	2-Channel, 12-Bit, 250ksps ADC* ***NEW!***	10-MSOP	6.25	4.15	3.50
LTC1861CS8-ND	2-Channel, 12-Bit, 250ksps ADC	8-SOIC	5.88	3.91	3.25
LTC1861CS8#PBF-ND	2-Channel, 12-Bit, 250ksps ADC* ***NEW!***	8-SOIC	5.88	3.91	3.25
LTC1861LCMS-ND	3V, 2-Channel, 12-Bit, 150ksps ADC	10-MSOP	5.63	3.74	3.05
LTC1861LCMS#PBF-ND	3V, 2-Channel, 12-Bit, 150ksps ADC* ***NEW!***	10-MSOP	5.63	3.74	3.05
LTC1861LCS8-ND	3V, 2-Channel, 12-Bit, 150ksps ADC	8-SOIC	5.50	3.66	3.00
LTC1864ACMS8-ND	1-Channel, 16-Bit, 250ksps ADC	8-MSOP	15.00	9.96	8.05
LTC1864ACMS8#PBF-ND	1-Channel, 16-Bit, 250ksps ADC* ***NEW!***	8-MSOP	15.00	9.96	8.05
LTC1864ACS8-ND	1-Channel, 16-Bit, 250ksps ADC	8-SOIC	14.38	9.55	7.70
LTC1864ACS8#PBF-ND	1-Channel, 16-Bit, 250ksps ADC* ***NEW!***	8-SOIC	14.38	9.55	7.70
LTC1864CMS8-ND	1-Channel, 16-Bit, 250ksps ADC	8-MSOP	12.88	8.55	6.90
LTC1864CMS8#PBF-ND	1-Channel, 16-Bit, 250ksps ADC* ***NEW!***	8-MSOP	12.88	8.55	6.90
LTC1864CS8-ND	1-Channel, 16-Bit, 250ksps ADC	8-SOIC	12.38	8.22	6.65
LTC1864CS8#PBF-ND	1-Channel, 16-Bit, 250ksps ADC* ***NEW!***	8-SOIC	12.38	8.22	6.65
LTC1864LACS8-ND	3V, 1-Channel, 16-Bit, 150ksps ADC	8-SOIC	14.00	9.30	7.55
LTC1865ACMS-ND	2-Channel, 16-Bit, 250ksps ADC	10-MSOP	15.38	10.21	8.55
LTC1865ACMS#PBF-ND	2-Channel, 16-Bit, 250ksps ADC* ***NEW!***	10-MSOP	15.38	10.21	8.55
LTC1865ACS8-ND	2-Channel, 16-Bit, 250ksps ADC	8-SOIC	14.75	9.80	8.20
LTC1865ACS8#PBF-ND	2-Channel, 16-Bit, 250ksps ADC* ***NEW!***	8-SOIC	14.75	9.80	8.20
LTC1865CMS-ND	2-Channel, 16-Bit, 250ksps ADC	10-MSOP	13.38	8.89	7.45
LTC1865CMS#PBF-ND	2-Channel, 16-Bit, 250ksps ADC* ***NEW!***	10-MSOP	13.38	8.89	7.45
LTC1865CS8-ND	2-Channel, 16-Bit, 250ksps ADC	8-SOIC	12.88	8.55	7.15
LTC1865CS8#PBF-ND	2-Channel, 16-Bit, 250ksps ADC* ***NEW!***	8-SOIC	12.88	8.55	7.15
LTC1865LACMS-ND	2-Channel, 16-Bit, 150ksps ADC	10-MSOP	15.38	10.21	8.55
LTC1865LACS8-ND	2-Channel, 16-Bit, 150ksps ADC	8-SOIC	14.75	9.80	8.20
LTC1865LCMS-ND	2-Channel, 16-Bit, 150ksps ADC	10-MSOP	13.38	8.89	7.45
LTC1865LCMS#PBF-ND	2-Channel, 16-Bit, 150ksps ADC* ***NEW!***	10-MSOP	13.38	8.89	7.45
LTC1865LCS8-ND	2-Channel, 16-Bit, 150ksps ADC	8-SOIC	12.88	8.55	7.15

Delta Sigma ADC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC2400CS8-ND	24-Bit, Micropower ADC	8-SOIC	10.63	7.10	6.05
LTC2400CS8#PBF-ND	24-Bit, Micropower ADC*	8-SOIC	10.63	7.10	6.05
LTC2400IS8-ND	24-Bit, Micropower ADC, Ind. Temp.	8-SOIC	12.13	8.10	6.95
LTC2400IS8#PBF-ND	24-Bit, Micropower ADC, Ind. Temp* ***NEW!***	8-SOIC	12.13	8.10	6.95
LTC2408CG-ND	24-Bit, 8-Channel Micropower ADC	28-SSOP	12.13	8.10	6.95
LTC2408CG#PBF-ND	24-Bit, 8-Channel Micropower ADC* ***NEW!***	28-SSOP	12.13	8.10	6.95
LTC2410CGN-ND	24-Bit, No Latency Delta Sigma ADC w/Diff. Input/Ref.	16-SSOP	10.63	7.10	6.05
LTC2410CGN#PBF-ND	24-Bit, No Latency Delta Sigma ADC w/Diff. Input/Ref* ***NEW!***	16-SSOP	10.63	7.10	6.05
LTC2411CMS-ND	24-Bit, No Latency Delta Sigma ADC w/Diff. Input/Ref.	10-MSOP	10.63	7.10	6.05
LTC2411CMS#PBF-ND	24-Bit, No Latency Delta Sigma ADC w/Diff. Input/Ref* ***NEW!***	10-MSOP	10.63	7.10	6.05
LTC2411CMSTR-ND	24-Bit, No Latency Delta Sigma ADC w/Diff. Input/Ref.	10-MSOP	15250.00/2,500		
LTC2411IMS-ND	24-Bit, No Latency Delta Sigma ADC w/Diff. Input/Ref.	10-MSOP	12.13	8.10	6.95
LTC2411IMS#PBF-ND	24-Bit, No Latency Delta Sigma ADC w/Diff. Input/Ref* ***NEW!***	10-MSOP	12.13	8.10	6.95
LTC2411IMSTR-ND	24-Bit, No Latency Delta Sigma ADC w/Diff. Input/Ref.	10-MSOP	17500.00/2,500		
LTC2411-1CMS-ND	24-Bit, No Latency Delta Sigma ADC w/Diff. Input/Ref.	10-MSOP	10.63	7.10	6.05
LTC2412CGN-ND	24-Bit, No Latency Delta Sigma ADC 2-Ch., Diff. Input	16-SSOP	9.50	6.31	5.05
LTC2412CGN#PBF-ND	24-Bit, No Latency Delta Sigma ADC 2-Ch., Diff. Input* ***NEW!***	16-SSOP	9.50	6.31	5.05
LTC2413CGN-ND	24-Bit, Micropower ADC	16-SSOP	10.63	7.10	6.05
LTC2413CGN#PBF-ND	24-Bit, Micropower ADC* ***NEW!***	16-SSOP	10.63	7.10	6.05
LTC2413IGN-ND	24-Bit, Micropower ADC, Ind. Temp	16-SSOP	12.13	8.10	6.95
LTC2413IGN#PBF-ND	24-Bit, Micropower ADC, Ind. Temp* ***NEW!***	16-SSOP	12.13	8.10	6.95
LTC2414CGN-ND	8-Ch., Diff. Input, 24-Bit No Latency Delta Sigma ADC	28-SSOP	12.13	8.10	6.95
LTC2414CGN#PBF-ND	8-Ch., Diff. Input, 24-Bit No Latency Delta Sigma ADC* ***NEW!***	28-SSOP	12.13	8.10	6.95
LTC2415CGN-ND	24-Bit No Latency Delta Sigma ADC with Diff. Input/Ref.	16-SSOP	10.63	7.10	6.05
LTC2415CGN#PBF-ND	24-Bit No Latency Delta Sigma ADC with Diff. Input/Ref* ***NEW!***	16-SSOP	10.63	7.10	6.05
LTC2415-1CGN#PBF-ND	24-Bit No Latency Delta Sigma ADC with Diff. Input/Ref* ***NEW!***	16-SSOP	10.63	7.10	6.05
LTC2415IGN-ND	24-Bit No Latency Delta Sigma ADC with Diff. Input/Ref.	16-SSOP	12.13	8.10	6.95
LTC2415IGN#PBF-ND	24-Bit No Latency Delta Sigma ADC with Diff. Input/Ref* ***NEW!***	16-SSOP	12.13	8.10	6.95
LTC2418CGN-ND	16-Channel, Differential Input, 24-Bit No Latency Delta Sigma ADC	28-SSOP	13.50	9.00	7.70
LTC2418CGN#PBF-ND	16-Channel, Differential Input, 24-Bit No Latency Delta Sigma ADC* ***NEW!***	28-SSOP	13.50	9.00	7.70
LTC2420CS8-ND	20-Bit, Micropower No Latency Delta Sigma ADC	8-SOIC	8.25	5.48	4.50
LTC2420CS8#PBF-ND	20-Bit, Micropower No Latency Delta Sigma ADC* ***NEW!***	8-SOIC	8.25	5.48	4.50
LTC2421CMS-ND	1-Ch., 20-Bit, Micropower, No Latency Delta Sigma ADC	10-MSOP	8.38	5.57	4.65
LTC2422CMS-ND	2-Ch., 20-Bit, Micropower, No Latency Delta Sigma ADC	10-MSOP	8.75	5.81	4.80
LTC2422CMS#PBF-ND	2-Ch., 20-Bit, Micropower, No Latency Delta Sigma ADC* ***NEW!***	10-MSOP	8.75	5.81	4.80
LTC2430CGN-ND	20-Bit, No Latency Delta Sigma ADC with Diff. Input/Ref.	16-SSOP	7.13	4.74	3.80
LTC2431CMS-ND	20-Bit, No Latency Delta Sigma ADC with Diff. Input/Ref.	10-MSOP	7.38	4.90	3.95
LTC2431CMS#PBF-ND	20-Bit, No Latency Delta Sigma ADC with Diff. Input/Ref* ***NEW!***	10-MSOP	7.38	4.90	3.95
LTC2433-1CMS-ND	16-Bit, No Latency Delta Sigma ADC with Diff. Input/Ref.	10-MSOP	3.88	2.60	2.20
LTC2433-1CMS#PBF-ND	16-Bit, No Latency Delta Sigma ADC with Diff. Input/Ref* ***NEW!***	10-MSOP	3.88	2.60	2.20
LTC2435CGN-ND	20-Bit, No Latency Delta Sigma ADC with Diff. Input/Ref.	16-SSOP	7.13	4.74	3.80
LTC2436-1CGN-ND	16-Bit, No Latency Delta Sigma ADC 2-Ch., Diff. Input	16-SSOP	4.88	3.24	2.60
LTC2436-1CGN#PBF-ND	16-Bit, No Latency Delta Sigma ADC 2-Ch., Diff. Input* ***NEW!***	16-SSOP	4.88	3.24	2.60

*** RoHS Compliant**

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC2440CGN-ND	24-Bit High Speed Differential Delta Sigma ADC with Selectable Speed/Resolution	16-SSOP	11.13	7.39	6.20
LTC2440CGN#PBF-ND	24-Bit High Speed Differential Delta Sigma ADC with Selectable Speed/Resolution* ***NEW!***	16-SSOP	11.13	7.39	6.20
LTC2440IGN-ND	24-Bit High Speed Differential Delta Sigma ADC with Selectable Speed/Resolution	16-SSOP	12.63	8.39	6.95
LTC2440IGN#PBF-ND	24-Bit High Speed Differential Delta Sigma ADC with Selectable Speed/Resolution* ***NEW!***	16-SSOP	12.63	8.39	6.95

High Speed ADC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1406CGN-ND	8-Bit, 20msps Sampling ADC	24-SSOP	6.50	4.32	3.40
LTC1406IGN-ND	8-Bit, 20msps Sampling ADC	24-SSOP	7.00	4.65	3.70
LTC1406IGN#PBF-ND	8-Bit, 20msps Sampling ADC* ***NEW!***	24-SSOP	7.00	4.65	3.70
LTC1740CG-ND	14-Bit, 6msps Sampling ADC	36-SSOP	34.38	22.83	18.36
LTC1740CG#PBF-ND	14-Bit, 6msps Sampling ADC* ***NEW!***	36-SSOP	34.38	22.83	18.36
LTC1741CFW-ND	12-Bit, 65msps Low Noise ADC	48-TSSOP	27.13	18.02	13.57
LTC1744CFW-ND	14-Bit, 50msps ADC	48-TSSOP	53.13	35.28	28.36
LTC1744CFW#PBF-ND	14-Bit, 50msps ADC* ***NEW!***	48-TSSOP	53.13	35.28	28.36
LTC1745CFW-ND	12-Bit, 25msps Low Noise ADC	48-TSSOP	18.63	12.37	9.95
LTC1746CFW-ND	14-Bit, 25msps Low Power ADC	48-TSSOP	25.50	16.94	13.60
LTC1747CFW-ND	12-Bit, 80msps Low Noise ADC	48-TSSOP	41.50	27.56	20.75
LTC1748CFW-ND	14-Bit, 80msps Low Noise ADC	48-TSSOP	68.63	45.57	34.32
LTC2202CUK#PBF-ND	16-Bit, 10MSPS ADC* ***NEW!***	48-QFN	50.00	35.71	29.41
LTC2202IUK#PBF-ND	16-Bit, 10MSPS ADC* ***NEW!***	48-QFN	60.00	42.86	35.30
LTC2203CUK#PBF-ND	16-Bit, 25MSPS ADC* ***NEW!***	48-QFN	60.00	42.86	35.30
LTC2203IUK#PBF-ND	16-Bit, 25MSPS ADC* ***NEW!***	48-QFN	72.00	51.43	42.36
LTC2204CUK#PBF-ND	16-Bit, 40MSPS ADC* ***NEW!***	48-QFN	70.00	50.00	42.18
LTC2204IUK#PBF-ND	16-Bit, 40MSPS ADC* ***NEW!***	48-QFN	84.00	60.00	50.62
LTC2205CUK#PBF-ND	16-Bit, 65MSPS ADC* ***NEW!***	48-QFN	86.65	61.90	52.22
LTC2205IUK#PBF-ND	16-Bit, 65MSPS ADC* ***NEW!***	48-QFN	104.00	74.29	62.67
LTC2206CUK#PBF-ND	16-Bit, 80MSPS ADC* ***NEW!***	48-QFN	96.65	69.04	58.24
LTC2206IUK#PBF-ND	16-Bit, 80MSPS ADC* ***NEW!***	48-QFN	116.00	82.86	69.90
LTC2207CUK#PBF-ND	16-Bit, 105MSPS ADC* ***NEW!***	48-QFN	113.35	80.97	68.31
LTC2207IUK#PBF-ND	16-Bit, 105MSPS ADC* ***NEW!***	48-QFN	136.00	97.15	81.95
LTC2208CUP#PBF-ND	16-Bit, 130MSPS ADC* ***NEW!***	64-QFN	104.00	92.86	76.47
LTC2208IUP#PBF-ND	16-Bit, 130MSPS ADC* ***NEW!***	64-QFN	124.80	111.43	91.76
LTC2220CUP#PBF-ND	12-Bit, 170MSPS ADC* ***NEW!***	64-QFN	81.98	54.65	46.84
LTC2220IUP#PBF-ND	12-Bit, 170MSPS ADC* ***NEW!***	64-QFN	98.35	65.57	56.20
LTC2221CUP#PBF-ND	12-Bit, 135MSPS ADC* ***NEW!***	64-QFN	70.38	46.92	40.21
LTC2221IUP#PBF-ND	12-Bit, 135MSPS ADC* ***NEW!***	64-QFN	87.98	58.65	50.27
LTC2222CUK#PBF-ND	12-Bit, 105MSPS ADC* ***NEW!***	48-QFN	62.08	41.38	35.47
LTC2222IUK#PBF-ND	12-Bit, 105MSPS ADC* ***NEW!***	48-QFN	77.60	51.73	44.34
LTC2223CUK#PBF-ND	12-Bit, 80MSPS ADC* ***NEW!***	48-QFN	34.25	22.83	19.57
LTC2223IUK#PBF-ND	12-Bit, 80MSPS ADC* ***NEW!***	48-QFN	41.00	27.33	23.43
LTC2224CUK#PBF-ND	12-Bit, 135MSPS ADC* ***NEW!***	48-QFN	70.38	46.92	40.21
LTC2224IUK#PBF-ND	12-Bit, 135MSPS ADC* ***NEW!***	48-QFN	87.98	58.65	50.27
LTC2225CUH#PBF-ND	12-Bit, 10MSPS Low Power 3V ADC* ***NEW!***	32-QFN	9.25	6.17	5.29
LTC2225IUH#PBF-ND	12-Bit, 10MSPS Low Power 3V ADC* ***NEW!***	32-QFN	11.10	7.40	6.34
LTC2226CUH#PBF-ND	12-Bit, 25MSPS Low Power 3V ADC* ***NEW!***	32-QFN	15.20	10.13	8.69
LTC2226IUH#PBF-ND	12-Bit, 25MSPS Low Power 3V ADC* ***NEW!***	32-QFN	18.23	12.15	10.41
LTC2227CUH#PBF-ND	12-Bit, 40MSPS Low Power 3V ADC* ***NEW!***	32-QFN	16.05	10.70	9.17
LTC2227IUH#PBF-ND	12-Bit, 40MSPS Low Power 3V ADC* ***NEW!***	32-QFN	19.25	12.83	11.00
LTC2228CUH#PBF-ND	12-Bit, 65MSPS Low Power 3V ADC* ***NEW!***	32-QFN	24.78	16.52	14.16
LTC2228IUH#PBF-ND	12-Bit, 65MSPS Low Power 3V ADC* ***NEW!***	32-QFN	29.73	19.82	16.99
LTC2229CUH#PBF-ND	12-Bit, 80MSPS Low Power 3V ADC* ***NEW!***	32-QFN	34.25	24.47	20.15
LTC2229IUH#PBF-ND	12-Bit, 80MSPS Low Power 3V ADC* ***NEW!***	32-QFN	41.00	29.29	24.12
LTC2236CUH#PBF-ND	10-Bit, 25MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	7.00	4.67	4.00
LTC2236IUH#PBF-ND	10-Bit, 25MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	8.40	5.60	4.80
LTC2237CUH#PBF-ND	10-Bit, 40MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	9.60	6.40	5.49
LTC2237IUH#PBF-ND	10-Bit, 40MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	11.50	7.67	6.57
LTC2238CUH#PBF-ND	10-Bit, 65MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	10.13	6.75	5.79
LTC2238IUH#PBF-ND	10-Bit, 65MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	12.15	8.10	6.94
LTC2239CUH#PBF-ND	10-Bit, 80MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	13.73	9.15	7.84
LTC2239IUH#PBF-ND	10-Bit, 80MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	16.40	10.93	9.37
LTC2245CUH#PBF-ND	14-Bit, 10MSPS Low Power 3V ADC* ***NEW!***	32-QFN	21.33	14.22	12.19
LTC2245IUH#PBF-ND	14-Bit, 10MSPS Low Power 3V ADC* ***NEW!***	32-QFN	26.65	17.77	15.23
LTC2246CUH#PBF-ND	14-Bit, 25MSPS Low Power 3V ADC* ***NEW!***	32-QFN	24.90	16.60	14.23
LTC2246IUH#PBF-ND	14-Bit, 25MSPS Low Power 3V ADC* ***NEW!***	32-QFN	31.13	20.75	17.80
LTC2247CUH#PBF-ND	14-Bit, 40MSPS Low Power 3V ADC* ***NEW!***	32-QFN	32.90	21.93	18.80
LTC2247IUH#PBF-ND	14-Bit, 40MSPS Low Power 3V ADC* ***NEW!***	32-QFN	39.43	26.28	22.53
LTC2248CUH#PBF-ND	14-Bit, 65MSPS Low Power 3V ADC* ***NEW!***	32-QFN	48.45	34.61	28.50
LTC2248IUH#PBF-ND	14-Bit, 65MSPS Low Power 3V ADC* ***NEW!***	32-QFN	58.10	38.73	33.20
LTC2249CUH#PBF-ND	14-Bit, 80MSPS Low Power 3V ADC* ***NEW!***	32-QFN	51.88	34.58	29.64
LTC2249IUH#PBF-ND	14-Bit, 80MSPS Low Power 3V ADC* ***NEW!***	32-QFN	62.25	41.50	35.57
LTC2250CUH#PBF-ND	10-Bit, 105MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	15.00	10.71	8.82
LTC2250IUH#PBF-ND	10-Bit, 105MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	18.00	12.86	10.59
LTC2251CUH#PBF-ND	10-Bit, 125MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	24.00	17.14	14.12
LTC2251IUH#PBF-ND	10-Bit, 125MSPS Low Noise 3V ADC* ***NEW!***	32-QFN	28.80	20.57	16.94
LTC2252CUH#PBF-ND	12-Bit, 105MSPS Low Power 3V ADC* ***NEW!***	32-QFN	46.00	32.86	27.06
LTC2252IUH#PBF-ND	12-Bit, 105MSPS Low Power 3V ADC* ***NEW!***	32-QFN	55.20	39.43	32.47
LTC2253CUH#PBF-ND	12-Bit, 125MSPS Low Power 3V ADC* ***NEW!***	32-QFN	55.00	39.29	32.35
LTC2253IUH#PBF-ND	12-Bit, 125MSPS Low Power 3V ADC* ***NEW!***	32-QFN	66.00	47.14	38.82
LTC2254CUH#PBF-ND	14-Bit, 105MSPS Low Power 3V ADC* ***NEW!***	32-QFN	82.00	58.57	48.24
LTC2254IUH#PBF-ND	14-Bit, 105MSPS Low Power 3V ADC* ***NEW!***	32-QFN	98.40	70.29	57.89
LTC2255CUH#PBF-ND	14-Bit, 125MSPS Low Power 3V ADC* ***NEW!***	32-QFN	98.00	70.00	57.65
LTC2255IUH#PBF-ND	14-Bit, 125MSPS Low Power 3V ADC* ***NEW!***	32-QFN	117.60	84.00	69.18
LTC2280CUP#PBF-ND	Dual 10-Bit, 105MSPS Low Noise 3V ADC* ***NEW!***	64-QFN	22.50	16.07	13.24
LTC2280IUP#PBF-ND	Dual 10-Bit, 105MSPS Low Noise 3V ADC* ***NEW!***	64-QFN	27.00	19.29	15.88
LTC2282CUP#PBF-ND	Dual 12-Bit, 105MSPS Low Power 3V ADC* ***NEW!***	64-QFN	69.00	49.29	40.59
LTC2282IUP#PBF-ND	Dual 12-Bit, 105MSPS Low Power 3V ADC* ***NEW!***	64-QFN	82.80	59.14	48.71
LTC2284CUP#PBF-ND	Dual 14-Bit, 105MSPS Low Power 3V ADC* ***NEW!***	64-QFN	123.00	87.86	72.36
LTC2284IUP#PBF-ND	Dual 14-Bit, 105MSPS Low Power 3V ADC* ***NEW!***	64-QFN	147.60	105.43	86.83
LTC2286CUP#PBF-ND	Dual 10-Bit, 25MSPS Low Noise 3V ADC* ***NEW!***	64-QFN	10.50	7.00	6.00
LTC2286IUP#PBF-ND	Dual 10-Bit, 25MSPS Low Noise 3V ADC* ***NEW!***	64-QFN	12.60	8.40	7.20
LTC2287CUP#PBF-ND	Dual 10-Bit, 40MSPS Low Noise 3V ADC* ***NEW!***	64-QFN	14.40	9.60	8.23
LTC2287IUP#PBF-ND	Dual 10-Bit, 40MSPS Low Noise 3V ADC* ***NEW!***	64-QFN	17.25	11.50	9.86
LTC2288CUP#PBF-ND	Dual 10-Bit, 65MSPS Low Noise 3V ADC* ***NEW!***	64-QFN	15.20	10.13	8.69
LTC2288IUP#PBF-ND	Dual 10-Bit, 65MSPS Low Noise 3V ADC* ***NEW!***	64-QFN	18.23	12.15	10.41
LTC2289CUP#PBF-ND	Dual 10-Bit, 80MSPS Low Noise 3V ADC* ***NEW!***	64-QFN	20.60	13.73	11.77
LTC2289IUP#PBF-ND	Dual 10-Bit, 80MSPS Low Noise 3V ADC* ***NEW!***	64-QFN	24.60	16.40	14.06
LTC2290CUP#PBF-ND	Dual 12-Bit, 10MSPS Low Power 3V ADC* ***NEW!***	64-QFN	20.75	13.83	11.86
LTC2290IUP#PBF-ND	Dual 12-Bit, 10MSPS Low Power 3V ADC* ***NEW!***	64-QFN	24.90	16.60	14.23
LTC2291CUP#PBF-ND	Dual 12-Bit, 25MSPS Low Power 3V ADC* ***NEW!***	64-QFN	22.78	15.18	13.01
LTC2291IUP#PBF-ND	Dual 12-Bit, 25MSPS Low Power 3V ADC* ***NEW!***	64-QFN	27.35	18.23	15.63
LTC2292CUP#PBF-ND	Dual 12-Bit, 40MSPS Low Power 3V ADC* ***NEW!***	64-QFN	24.05	16.03	13.74
LTC2292IUP#PBF-ND	Dual 12-Bit, 40MSPS Low Power 3V ADC* ***NEW!***	64-QFN	28.85	19.23	16.49
LTC2293CUP#PBF-ND	Dual 12-Bit, 65MSPS Low Power 3V ADC* ***NEW!***	64-QFN	37.18	24.78	21.24
LTC2293IUP#PBF-ND	Dual 12-Bit, 65MSPS Low Power 3V ADC* ***NEW!***	64-QFN	44.60	29.73	25.48
LTC2294CUP#PBF-ND	Dual 12-Bit, 80MSPS Low Power 3V ADC* ***NEW!***	64-QFN	51.38	34.25	29.36
LTC2294IUP#PBF-ND	Dual 12-Bit, 80MSPS Low Power 3V ADC* ***NEW!***	64-QFN	61.50	41.00	35.15
LTC2295CUP#PBF-ND	Dual 14-Bit, 10MSPS Low Power 3V ADC* ***NEW!***	64-QFN	35.28	23.52	20.16
LTC2295IUP#PBF-ND	Dual 14-Bit, 10MSPS Low Power 3V ADC* ***NEW!***	64-QFN	42.33	28.22	24.19
LTC2296CUP#PBF-ND	Dual 14-Bit, 25MSPS Low Power 3V ADC* ***NEW!***	64-QFN	38.90	25.93	22.23
LTC2296IUP#PBF-ND	Dual 14-Bit, 25MSPS Low Power 3V ADC* ***NEW!***	64-QFN	46.70	31.13	26.69
LTC2297CUP#PBF-ND	Dual 14-Bit, 40MSPS Low Power 3V ADC* ***NEW!***	64-QFN	49.33	32.88	28.19
LTC2297IUP#PBF-ND	Dual 14-Bit, 40MSPS Low Power 3V ADC* ***NEW!***	64-QFN	59.15	39.43	33.80
LTC2298CUP#PBF-ND	Dual 14-Bit, 65MSPS Low Power 3V ADC* ***NEW!***	64-QFN	72.68	48.45	41.53
LTC2298IUP#PBF-ND	Dual 14-Bit, 65MSPS Low Power 3V ADC* ***NEW!***	64-QFN	87.15	58.10	49.80
LTC2299CUP#PBF-ND	Dual 14-Bit, 80MSPS Low Power 3V ADC* ***NEW!***	64-QFN	77.83	51.88	44.48
LTC2299IUP#PBF-ND	Dual 14-Bit, 80MSPS Low Power 3V ADC* ***NEW!***	64-QFN	93.38	62.25	53.37

Current Output DAC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1588CG-ND	12-Bit SoftSpan DAC	16-SSOP	11.88	7.89	6.35
LTC1589CG-ND	14-Bit SoftSpan DAC	16-SSOP	19.88	13.20	10.60
LTC1590CN-ND	Dual 12-Bit, Serial Input, Current Output DAC	16-Dip	12.13	8.06	6.65
LTC1590CN#PBF-ND	Dual 12-Bit, Serial Input, Current Output DAC* ***NEW!***	16-Dip	12.13	8.06	6.65
LTC1590CS-ND	Dual 12-Bit, Serial Input, Current Output DAC	16-SOIC	12.38	8.22	6.80
LTC1590CS#PBF-ND	Dual 12-Bit, Serial Input, Current Output DAC* ***NEW!***	16-SOIC	12.38	8.22	6.80
LTC1590IS-ND	Dual 12-Bit, Serial Input, Current Output DAC	16-SOIC	13.63	9.05	7.50
LTC1590IS#PBF-ND	Dual 12-Bit, Serial Input, Current Output DAC* ***NEW!***	16-SOIC	13.63	9.05	7.50
LTC1591CG-ND	Parallel 14-Bit, Multiplying Current Output DAC	28-SSOP	20.00	13.28	10.00
LTC1591CG#PBF-ND	Parallel 14-Bit, Multiplying Current Output DAC* ***NEW!***	28-SSOP	20.00	13.28	10.00
LTC1591IG-ND	Parallel 14-Bit, Multiplying Current Output DAC	28-SSOP	23.75	15.77	11.90
LTC1592ACG-ND	16-Bit Softspan DAC	16-SSOP	55.63	36.94	29.65
LTC1592ACG#PBF-ND	16-Bit Softspan DAC* ***NEW!***	16-SSOP	55.63	36.94	29.65
LTC1592BCG-ND	16-Bit Softspan DAC	16-SSOP	29.63	19.68	15.80
LTC1592BCG#PBF-ND	16-Bit Softspan DAC* ***NEW!***	16-SSOP	29.63	19.68	15.80
LTC1595ACN8-ND	16-Bit Serial Multiplying DAC	8-Dip	48.13	31.96	24.71
LTC1595ACS8-ND	16-Bit Serial Multiplying DAC	8-SOIC	48.75	32.37	25.65
LTC1595ACS8#PBF-ND	16-Bit Serial Multiplying DAC* ***NEW!***	8-SOIC	48.75	32.37	25.65
LTC1595AIN8-ND	16-Bit Serial Multiplying DAC, Ind. Temp.	8-Dip	57.75	38.35	29.65
LTC1595AIS8-ND	16-Bit Serial Multiplying DAC, Ind. Temp.	8-SOIC	58.50	38.85	30.00
LTC1595AIS8#PBF-ND	16-Bit Serial Multiplying DAC, Ind. Temp.* ***NEW!***	8-SOIC	58.50	38.85	30.00
LTC1595BCN8-ND	16-Bit Serial Multiplying DAC	8-Dip	28.50	18.93	15.20
LTC1595BCS8-ND	16-Bit Serial Multiplying DAC	8-SOIC	29.13	19.34	15.55
LTC1595BCS8#PBF-ND	16-Bit Serial Multiplying DAC* ***NEW!***	8-SOIC	29.13	19.34	15.55
LTC1595BIS8-ND	16-Bit Serial Multiplying DAC, Ind. Temp.	8-SOIC	35.00	23.24	18.65
LTC1595BIS8#PBF-ND	16-Bit Serial Multiplying DAC, Ind. Temp* ***NEW!***	8-SOIC	35.00	23.24	18.65
LTC1595CCN8-ND	16-Bit Serial Multiplying DAC	8-Dip	24.38	16.19	13.00
LTC1595CCS8-ND	16-Bit Serial Multiplying DAC	8-SOIC	25.00	16.60	13.35
LTC1595CCS8#PBF-ND	16-Bit Serial Multiplying DAC* ***NEW!***	8-SOIC	25.00	16.60	13.35
LTC1595CIS8-ND	16-Bit Serial Multiplying DAC, Ind. Temp.	8-SOIC	30.00	19.92	16.00
LTC1596ACN-ND	16-Bit Serial Multiplying DAC	16-Dip	50.38	33.45	25.85
LTC1596AISW-ND	16-Bit Serial Multiplying DAC, Ind. Temp.	16-SOIC	61.25	40.67	31.40
LTC1596AISW#PBF-ND	16-Bit Serial Multiplying DAC, Ind. Temp* ***NEW!***	16-SOIC	61.25	40.67	31.40
LTC1596BCSW-ND	16-Bit Serial Multiplying DAC	16-SOIC	30.63	20.34	16.35
LTC1596BCSW#PBF-ND	16-Bit Serial Multiplying DAC* ***NEW!***	16-SOIC	30.63	20.34	16.35
LTC1596CCN-ND	16-Bit Serial Multiplying DAC	16-Dip	25.63	17.02	13.65
LTC1597ACG-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors	28-SSOP	55.63	36.94	27.82
LTC1597ACG#PBF-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors* ***NEW!***	28-SSOP	55.63	36.94	27.82
LTC1597ACN-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors	28-Dip	55.00	36.52	28.60
LTC1597BCN-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors	28-Dip	33.88	18.80	16.95
LTC1597BCN#PBF-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors* ***NEW!***	28-Dip	33.88	22.50	16.95
LTC1597-1ACG-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors	28-SSOP	55.63	36.94	27.82
LTC1597-1ACG#PBF-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors* ***NEW!***	28-SSOP	55.63	36.94	27.82
LTC1597-1ACN#PBF-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors* ***NEW!***	28-DIP	55.00	36.52	28.60
LTC1597-1BCG-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors	28-SSOP	34.50	22.91	17.25
LTC1597-1BCG#PBF-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors* ***NEW!***	28-SSOP	34.50	22.91	17.25
LTC1597-1BCN-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors	28-Dip	33.88	22.50	16.95
LTC1599ACG-ND	16-Bit Multiplying Parallel DAC with 4 Quad Resistors	24-SSOP	55.63	36.94	28.91
LTC7541ABN-ND	12-Bit CMOS Multiplying DAC	18-Dip	11.25	7.50	6.25
LTC7541ABN#PBF-ND	12-Bit CMOS Multiplying DAC* ***NEW!***	18-Dip	11.25	7.50	6.25
LTC7541ABSW-ND	12-Bit CMOS Multiplying DAC	18-SOIC	11.25	7.50	6.25
LTC7541ABSW#PBF-ND	12-Bit CMOS Multiplying DAC* ***NEW!***	18-SOIC	11.25	7.50	6.25
LTC7541AJN-ND	12-Bit CMOS Multiplying DAC	18-Dip	6.63	4.42	3.65
LTC7541AKN-ND	12-Bit CMOS Multiplying DAC	18-Dip	9.00	6.00	4.95
LTC7541AKN#PBF-ND	12-Bit CMOS Multiplying DAC* ***NEW!***	18-Dip	9.00	6.00	4.95
LTC7543GKN-ND	12-Bit Serial Multiplying DAC	16-Dip	13.13	8.75	7.25
LTC7543KN-ND	12-Bit Serial Multiplying DAC	16-Dip	12.63	8.40	7.00
LTC7545ABG-ND	12-Bit Parallel Multiplying DAC	20-SSOP	8.75	5.85	5.00
LTC7545AKG-ND	12-Bit Parallel Multiplying DAC	20-SSOP	7.63	5.10	4.35
LTC7545AKSW-ND	12-Bit Parallel Multiplying DAC	20-SOIC	7.13	4.75	4.10
LTC7545AKSW#PBF-ND	12-Bit Parallel Multiplying DAC* ***NEW!***	20-SOIC	7.13	4.75	4.10
LTC7545ALG-ND	12-Bit Parallel Multiplying DAC	20-SSOP	8.00	5.35	4.60
LTC8043EN8-ND	12-Bit Serial Multiplying DAC	8-Dip	9.13	6.10	5.00
LTC8043EN8#PBF-ND	12-Bit Serial Multiplying DAC* ***NEW!***	8-Dip	9.13	6.10	5.00
LTC8043ES8-ND	12-Bit Serial Multiplying DAC	8-SOIC	9.13	6.10	5.00
LTC8043ES8#PBF-ND	12-Bit Serial Multiplying DAC* ***NEW!***	8-SOIC	9.13	6.10	5.00
LTC8043FN8-ND	12-Bit Serial Multiplying DAC	8-Dip	8.75	5.85	4.80
LTC8043FN8#PBF-ND	12-Bit Serial Multiplying DAC* ***NEW!***	8-Dip	8.75	5.85	4.80
LTC8043FS8-ND	12-Bit Serial Multiplying DAC	8-SOIC	8.75	5.85	4.80
LTC8043FS8#PBF-ND	12-Bit Serial Multiplying DAC* ***NEW!***	8-SOIC	8.75	5.85	4.80
LTC8143ESW-ND	12-Bit Serial Multiplying DAC	16-SOIC	13.13	8.75	7.25
LTC8143ESW#PBF-ND	12-Bit Serial Multiplying DAC* ***NEW!***	16-SOIC	13.13	8.75	7.25

Voltage Output DAC

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1257CN8-ND	Complete Single Supply 12-Bit Volt. Output DAC	8-Dip	8.38	5.60	4.45
LTC1257CN8#PBF-ND	Complete Single Supply 12-Bit Volt. Output DAC* ***NEW!***	8-Dip	8.38	5.60	4.45
LTC1257CS8-ND	Complete Single Supply 12-Bit Volt. Output DAC	8-SOIC	8.88	5.90	4.75
LTC1257CS8#PBF-ND	Complete Single Supply 12-Bit Volt. Output DAC*	8-SOIC	8.88	5.90	4.75
LTC1257IN8-ND	Complete Single Supply 12-Bit Volt. Output DAC	8-Dip	9.25	6.15	4.90

* ***RoHS Compliant***

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

LINEAR TECHNOLOGY DATA CONVERSION *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1257IN8#PBF-ND	Complete Single Supply 12-Bit Volt. Output DAC* ***NEW!***	8-Dip	9.25	6.15	4.90
LTC1257IS8-ND	Complete Single Supply 12-Bit Volt. Output DAC	8-SOIC	9.75	6.50	5.20
LTC1257IS8#PBF-ND	Complete Single Supply 12-Bit Volt. Output DAC* ***NEW!***	8-SOIC	9.75	6.50	5.20
LTC1446CN8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC	8-Dip	12.00	8.00	6.55
LTC1446CN8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC* ***NEW!***	8-Dip	12.00	8.00	6.55
LTC1446CS8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC	8-SOIC	12.13	8.10	6.65
LTC1446CS8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC* ***NEW!***	8-SOIC	12.13	8.10	6.65
LTC1446IN8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp.	8-Dip	13.50	9.00	7.40
LTC1446IS8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp.	8-SOIC	13.63	9.10	7.45
LTC1446IS8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp* ***NEW!***	8-SOIC	13.63	9.10	7.45
LTC1446LCS8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC	8-SOIC	13.38	8.90	7.65
LTC1446LCS8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC* ***NEW!***	8-SOIC	13.38	8.90	7.65
LTC1446LIS8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp.	8-SOIC	15.00	10.00	8.60
LTC1448CN8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC	8-Dip	12.00	8.00	6.55
LTC1448CS8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC	8-SOIC	12.13	8.10	6.65
LTC1448CS8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC* ***NEW!***	8-SOIC	12.13	8.10	6.65
LTC1448IN8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp.	8-Dip	13.50	9.00	7.40
LTC1448IS8-ND	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp.	8-SOIC	13.63	9.10	7.45
LTC1448IS8#PBF-ND	Dual 12-Bit Rail-to-Rail Micropower DAC, Ind. Temp* ***NEW!***	8-SOIC	13.63	9.10	7.45
LTC1450CG-ND	Parallel Input 12-Bit Rail-to-Rail Micropower DAC	24-SSOP	10.63	7.10	6.10
LTC1450CG#PBF-ND	Parallel Input 12-Bit Rail-to-Rail Micropower DAC* ***NEW!***	24-SSOP	10.63	7.10	6.10
LTC1450LCG-ND	Parallel Input 12-Bit Rail-to-Rail Micropower DAC	24-SSOP	11.25	7.50	6.20
LTC1450LCG#PBF-ND	Parallel Input 12-Bit Rail-to-Rail Micropower DAC* ***NEW!***	24-SSOP	11.25	7.50	6.20
LTC1451CN8-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	8-Dip	8.63	5.75	4.93
LTC1451CN8#PBF-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	8-Dip	8.63	5.75	4.93
LTC1451CS8-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	8-SOIC	9.13	6.08	5.21
LTC1451CS8#PBF-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	8-SOIC	9.13	6.08	5.21
LTC1451IN8-ND	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp	8-Dip	9.38	6.25	5.36
LTC1451IS8-ND	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp	8-SOIC	9.88	6.58	5.64
LTC1451IS8#PBF-ND	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp* ***NEW!***	8-SOIC	9.88	6.58	5.64
LTC1452CN8-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	8-Dip	7.63	5.07	4.35
LTC1452CN8#PBF-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	8-Dip	7.63	5.05	4.35
LTC1452CS8-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	8-SOIC	8.13	5.40	4.65
LTC1452CS8#PBF-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	8-SOIC	8.13	5.40	4.65
LTC1452IS8-ND	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp	8-SOIC	8.88	5.90	5.10
LTC1452IS8#PBF-ND	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp* ***NEW!***	8-SOIC	8.88	5.90	5.10
LTC1453CN8-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	8-Dip	8.38	5.60	4.80
LTC1453CN8#PBF-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	8-Dip	8.38	5.60	4.80
LTC1453CS8-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	8-SOIC	8.88	5.90	5.10
LTC1453CS8#PBF-ND	12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	8-SOIC	8.88	5.90	5.10
LTC1453IN8-ND	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp	8-Dip	9.13	6.06	5.20
LTC1453IS8-ND	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp	8-SOIC	9.63	6.40	5.50
LTC1453IS8#PBF-ND	12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp* ***NEW!***	8-SOIC	9.63	6.40	5.50
LTC1454CN-ND	Dual 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	16-Dip	12.38	8.25	7.10
LTC1454CN#PBF-ND	Dual 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	16-Dip	12.38	8.25	7.10
LTC1454CS-ND	Dual 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	16-SOIC	12.50	8.35	7.15
LTC1454CS#PBF-ND	Dual 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	16-SOIC	12.50	8.35	7.15
LTC1454LCN-ND	Dual 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	16-Dip	13.63	9.10	7.80
LTC1454LCS-ND	Dual 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	16-SOIC	13.75	9.15	7.85
LTC1454LCS#PBF-ND	Dual 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	16-SOIC	13.75	9.15	7.85
LTC1454IS-ND	Dual 12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp.	16-SOIC	14.00	9.35	8.00
LTC1454IS#PBF-ND	Dual 12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp* ***NEW!***	16-SOIC	14.00	9.35	8.00
LTC1456CN8-ND	Single 12-Bit, Voltage Out, R/R Micropower DAC, w/Clear	8-Dip	8.63	5.75	4.90
LTC1456CN8#PBF-ND	Single 12-Bit, Voltage Out, R/R Micropower DAC, w/Clear* ***NEW!***	8-Dip	8.63	5.75	4.90
LTC1456CS8-ND	Single 12-Bit, Voltage Out, R/R Micropower DAC, w/Clear	8-SOIC	9.13	6.10	5.20
LTC1456CS8#PBF-ND	Single 12-Bit, Voltage Out, R/R Micropower DAC, w/Clear* ***NEW!***	8-SOIC	9.13	6.10	5.20
LTC1458CG-ND	Quad 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	28-SSOP	24.38	16.25	13.20
LTC1458CG#PBF-ND	Quad 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	28-SSOP	24.38	16.25	13.20
LTC1458CSW-ND	Quad 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	28-SOIC	22.88	15.25	12.35
LTC1458CSW#PBF-ND	Quad 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	28-SOIC	22.88	15.25	12.35
LTC1458ISW-ND	Quad 12-Bit, Voltage Out, R/R Micropower DAC, Ind. Temp.	28-SOIC	27.00	17.93	14.40
LTC1458LCG-ND	Quad 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	28-SSOP	26.88	17.90	15.35
LTC1458LCG#PBF-ND	Quad 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	28-SSOP	26.88	17.90	15.35
LTC1458LCSW-ND	Quad 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	28-SOIC	25.25	16.85	14.40
LTC1458LIG-ND	Quad 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC	28-SSOP	31.63	21.00	16.86
LTC1458LIG#PBF-ND	Quad 12-Bit, Voltage Out, Rail-to-Rail Micropower DAC* ***NEW!***	28-SSOP	31.63	21.00	16.86
LTC1650ACN-ND	16-Bit, Rail-to-Rail Voltage Out DAC	16-Dip	31.88	21.17	17.00
LTC1650ACS#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC* ***NEW!***	16-SOIC	32.50	21.58	17.10
LTC1650AIS-ND	16-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp.	16-SOIC	36.88	24.49	19.40
LTC1650AIS#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp* ***NEW!***	16-SOIC	36.88	24.49	19.40
LTC1650CN-ND	16-Bit, Rail-to-Rail Voltage Out DAC	16-Dip	23.88	15.86	11.95
LTC1650CS-ND	16-Bit, Rail-to-Rail Voltage Out DAC	16-SOIC	24.50	16.27	12.25
LTC1650CS#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC* ***NEW!***	16-SOIC	24.50	16.27	12.25
LTC1650IS-ND	16-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp.	16-SOIC	27.75	18.43	13.90
LTC1650IS#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp* ***NEW!***	16-SOIC	27.75	18.43	13.90
LTC1654CGN-ND	Dual 14-Bit, Rail-to-Rail Voltage Out DAC	16-SSOP	19.00	12.62	9.50
LTC1654CGN#PBF-ND	Dual 14-Bit, Rail-to-Rail Voltage Out DAC* ***NEW!***	16-SSOP	19.00	12.62	9.50
LTC1654IGN-ND	Dual 14-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp.	16-SSOP	21.88	14.53	10.94
LTC1655CN8-ND	16-Bit, Rail-to-Rail Voltage Out DAC	8-Dip	16.88	11.21	8.45
LTC1655CN8#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC* ***NEW!***	8-Dip	16.88	11.21	8.45
LTC1655CS8-ND	16-Bit, Rail-to-Rail Voltage Out DAC	8-SOIC	16.88	11.21	8.45
LTC1655CS8#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC* ***NEW!***	8-SOIC	16.88	11.21	8.45
LTC1655IS8-ND	16-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp.	8-SOIC	18.50	12.29	9.25
LTC1655IS8#PBF-ND	16-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp* ***NEW!***	8-SOIC	18.50	12.29	9.25
LTC1658CMS8-ND	14-Bit, Rail-to-Rail Voltage Out DAC	8-MSOP	10.88	7.23	5.45
LTC1658CMS8#PBF-ND	14-Bit, Rail-to-Rail Voltage Out DAC* ***NEW!***	8-MSOP	10.88	7.23	5.45
LTC1658CN8-ND	14-Bit, Rail-to-Rail Voltage Out DAC	8-Dip	10.25	6.81	5.15
LTC1658CN8#PBF-ND	14-Bit, Rail-to-Rail Voltage Out DAC* ***NEW!***	8-Dip	10.25	6.81	5.15
LTC1658CS8-ND	14-Bit, Rail-to-Rail Voltage Out DAC	8-SOIC	10.25	6.81	5.15
LTC1658CS8#PBF-ND	14-Bit, Rail-to-Rail Voltage Out DAC* ***NEW!***	8-SOIC	10.25	6.81	5.15
LTC1658IMS8-ND	14-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp.	8-MSOP	13.00	8.64	6.50
LTC1658IMS8#PBF-ND	14-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp* ***NEW!***	8-MSOP	13.00	8.64	6.50
LTC1659CS8-ND	12-Bit, Rail-to-Rail Voltage Out DAC	8-SOIC	8.38	5.57	4.65
LTC1659CS8#PBF-ND	12-Bit, Rail-to-Rail Voltage Out DAC* ***NEW!***	8-SOIC	8.38	5.57	4.65
LTC1659IS8-ND	12-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp.	8-SOIC	9.13	6.06	5.10
LTC1659IS8#PBF-ND	12-Bit, Rail-to-Rail Voltage Out DAC, Ind. Temp* ***NEW!***	8-SOIC	9.13	6.06	5.10
LTC1660CGN-ND	Octal 10-Bit, Voltage Output DAC	16-SSOP	12.38	8.22	6.20
LTC1660CGN#PBF-ND	Octal 10-Bit, Voltage Output DAC* ***NEW!***	16-SSOP	12.38	8.22	6.20
LTC1660CN-ND	Octal 10-Bit, Voltage Output DAC	16-Dip	11.38	7.56	5.70
LTC1660CN#PBF-ND	Octal 10-Bit, Voltage Output DAC* ***NEW!***	16-Dip	11.38	7.56	5.70
LTC1660IGN-ND	Octal 10-Bit, Voltage Output DAC, Ind. Temp.	16-SSOP	13.88	9.22	6.95
LTC1660IGN#PBF-ND	Octal 10-Bit, Voltage Output DAC, Ind. Temp* ***NEW!***	16-SSOP	13.88	9.22	6.95
LTC1660IN-ND	Octal 10-Bit, Voltage Output DAC, Ind. Temp.	16-Dip	12.88	8.55	6.44
LTC1661CMS8-ND	Dual 10-Bit, Micropower DAC	8-MSOP	3.38	2.25	1.75
LTC1661CMS8#PBF-ND	Dual 10-Bit, Micropower DAC* ***NEW!***	8-MSOP	3.38	2.25	1.75
LTC1661CN8-ND	Dual 10-Bit, Micropower DAC	8-Dip	3.38	2.25	1.75
LTC1661CN8#PBF-ND	Dual 10-Bit, Micropower DAC* ***NEW!***	8-Dip	3.38	2.25	1.75
LTC1663-1CS5-ND	10-Bit, R/R Micropower DAC with 2-Wire Interface	SOT-23-5	3.60	2.40	1.91
LTC1663-1CS5#PBF-ND	10-Bit, R/R Micropower DAC with 2-Wire Interface* ***NEW!***	SOT-23-5	3.60	2.40	1.91
LTC1663-2CS5-ND	10-Bit, R/R Micropower DAC with 2-Wire Interface	SOT-23-5	3.60	2.40	1.91
LTC1663-8CMS8-ND	10-Bit, R/R Micropower DAC with 2-Wire Interface	8-MSOP	3.50	2.50	2.06
LTC1663-8IMS8-ND	10-Bit, R/R Micropower DAC with 2-Wire Interface	8-MSOP	4.13	2.95	2.43
LTC1663-8IMS8#PBF-ND	10-Bit, R/R Micropower DAC with 2-Wire Interface* ***NEW!***	8-MSOP	4.13	2.95	2.43
LTC1665CGN-ND	Octal 8-Bit, Voltage Output DAC	16-SSOP	6.38	4.24	3.20
LTC1665CGN#PBF-ND	Octal 8-Bit, Voltage Output DAC* ***NEW!***	16-SSOP	6.38	4.24	3.20
LTC1666CG-ND	12-Bit, 50msps DAC	28-SSOP	16.63	11.04	8.95
LTC1666CG#PBF-ND	12-Bit, 50msps DAC* ***NEW!***	28-SSOP	16.63	11.04	8.95
LTC1667CG-ND	14-Bit, 50msps DAC	28-SSOP	22.38	14.86	12.05
LTC1667CG#PBF-ND	14-Bit, 50msps DAC* ***NEW!***	28-SSOP	22.38	14.86	12.05
LTC1669-1CS5-ND	10-Bit Rail-to-Rail Micropower DAC	SOT-23-5	3.60	2.58	2.12
LTC1669CMS8-ND	10-Bit Rail-to-Rail Micropower DAC	8-MSOP	3.50	2.50	2.06
LTC1669CMS8#PBF-ND	10-Bit Rail-to-Rail Micropower DAC* ***NEW!***	8-MSOP	3.50	2.50	2.06
LTC1669CS5-ND	10-Bit Rail-to-Rail Micropower DAC	SOT-23-5	3.60	2.58	2.12
LTC1669CS5#PBF-ND	10-Bit Rail-to-Rail Micropower DAC* ***NEW!***	SOT-23-5	3.60	2.58	2.12
LTC1821-1ACGW-ND	16-Bit, Ultra Precise, Voltage Out DAC	36-SSOP	87.13	58.10	46.46
LTC1821-1AIGW-ND	16-Bit, Ultra Precise, Voltage Out DAC, Ind. Temp.	36-SSOP	95.63	63.75	51.00
LTC1821-1BCGW-ND	16-Bit, Ultra Precise, Voltage Out DAC	36-SSOP	63.63	42.40	33.95
LTC1821-1BCGW#PBF-ND	16-Bit, Ultra Precise, Voltage Out DAC* ***NEW!***	36-SSOP	63.63	42.40	33.95
LTC1821ACGW-ND	16-Bit, Ultra Precise, Voltage Out DAC	36-SSOP	87.13	58.10	46.46
LTC1821AIGW-ND	16-Bit, Ultra Precise, Voltage Out DAC, Ind. Temp.	36-SSOP	95.63	63.75	51.00
LTC1821BCGW-ND	16-Bit, Ultra Precise, Voltage Out DAC	36-SSOP	63.63	42.40	33.95
LTC1821BIGW-ND	16-Bit, Ultra Precise, Voltage Out DAC, Ind. Temp.	36-SSOP	70.00	46.65	37.35
LTC2600CGN-ND	Octal, 16-Bit Rail-to-Rail DAC	16-SSOP	28.00	18.60	14.95
LTC2600CGN#PBF-ND	Octal, 16-Bit Rail-to-Rail DAC* ***NEW!***	16-SSOP	28.00	18.60	14.95
LTC2610CGN-ND	Octal, 14-Bit Rail-to-Rail DAC	16-SSOP	22.13	14.70	11.80
LTC2610CGN#PBF-ND	Octal, 14-Bit Rail-to-Rail DAC* ***NEW!***	16-SSOP	22.13	14.70	11.80
LTC2620CGN-ND	Octal, 12-Bit Rail-to-Rail DAC	16-SSOP	15.50	10.30	8.25
LTC2620CGN#PBF-ND	Octal, 12-Bit Rail-to-Rail DAC* ***NEW!***	16-SSOP	15.50	10.30	8.25
LTC2620IGN-ND	Octal, 12-Bit Rail-to-Rail DAC	16-SSOP	18.25	12.12	9.70

Special Function DAC

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1329CS8-10-ND	Micropower 8-Bit, Current Output DAC	8-SOIC	4.75	3.16	2.65
LTC1329CS8-10#PBF-ND	Micropower 8-Bit, Current Output DAC* ***NEW!***	8-SOIC	4.75	3.16	2.65
LTC1329CS8-50-ND	Micropower 8-Bit, Current Output DAC	8-SOIC	4.75	3.16	2.65
LTC1329CS8-50#PBF-ND	Micropower 8-Bit, Current Output DAC* ***NEW!***	8-SOIC	4.75	3.16	2.65
LTC1329IS8-50-ND	Micropower 8-Bit, Current Output DAC, Ind. Temp.	8-SOIC	5.88	3.91	3.25
LTC1426CS8-ND	6-Bit, Dual PWM DAC	8-SOIC	6.25	4.15	3.85
LTC1427CS8-50-ND	10-Bit, DAC with SMBus Interface	8-SOIC	6.13	4.07	3.20
LTC1427CS8-50#PBF-ND	10-Bit, DAC with SMBus Interface* ***NEW!***	8-SOIC	6.13	4.07	3.20
LTC1840CGN-ND	Dual Fan Controller with 2-Wire Interface	16-SSOP	5.63	3.75	3.00

MUXes and Switches

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1380CGN-ND	8-Channel CMOS Multiplexer with SMBus Interface	16-SSOP	6.50	4.32	3.35
LTC1380CS-ND	8-Channel CMOS Multiplexer with SMBus Interface	16-SOIC	6.13	4.07	3.07
LTC1380IS-ND	8-Channel CMOS Multiplexer with SMBus Interface	16-SOIC	6.88	4.57	3.55
LTC1390CN-ND	CMOS 8-to-1 Analog Multiplexer with Serial Interface	16-Dip	4.38	2.91	2.35
LTC1390CN#PBF-ND	CMOS 8-to-1 Analog Multiplexer with Serial Interface* ***NEW!***	16-Dip	4.38	2.91	2.35
LTC1390CS-ND	CMOS 8-to-1 Analog Multiplexer with Serial Interface	16-SOIC	4.63	3.10	2.45
LTC1390CS#PBF-ND	CMOS 8-to-1 Analog Multiplexer with Serial Interface* ***NEW!***	16-SOIC	4.63	3.10	2.45
LTC1391CS-ND	CMOS 8-to-1 Mux with Cascadable Serial Interface	16-SOIC	4.63	3.10	2.45
LTC1391CS#PBF-ND	CMOS 8-to-1 Mux with Cascadable Serial Interface* ***NEW!***	16-SOIC	4.63	3.10	2.45

LINEAR TECHNOLOGY INTERFACE

RS232/RS562

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LT1030CNLT-ND	Quad Low Power Line Driver	14-Dip	3.13	2.08	1.65
LT1032CN-ND	Quad Low Power Line Driver	14-Dip	4.50	3.00	2.55
LT1032CN#PBF-ND	Quad Low Power Line Driver* ***NEW!***	14-Dip	4.50	3.00	2.55
LT1032CSW-ND	Quad Low Power Line Driver	16-SOIC	4.63	3.08	2.60
LT1039ACN-ND	15kV Triple RS232 Driver/Receiver with Shutdown	18-Dip	5.00	3.35	2.85
LT1039ACN#PBF-ND	15kV Triple RS232 Driver/Receiver with Shutdown* ***NEW!***	18-Dip	5.00	3.35	2.85
LT1039ACSW-ND	15kV Triple RS232 Driver/Receiver with Shutdown	18-SOIC	5.88	3.91	3.35
LT1039ACSW#PBF-ND	15kV Triple RS232 Driver/Receiver with Shutdown* ***NEW!***	18-SOIC	5.88	3.90	3.35
LT1039CN-ND	15kV Triple RS232 Driver/Receiver with Shutdown	18-Dip	4.38	2.92	2.45
LT1039CN#PBF-ND	15kV Triple RS232 Driver/Receiver with Shutdown* ***NEW!***	18-Dip	4.38	2.92	2.45
LT1039CN16-ND	15kV Triple RS232 Driver/Receiver with Shutdown	16-Dip	3.75	2.75	2.10
LT1039CSW-ND	15kV Triple RS232 Driver/Receiver with Shutdown	18-SOIC	5.25	3.50	2.90
LT1039CSW#PBF-ND	15kV Triple RS232 Driver/Receiver with Shutdown* ***NEW!***	18-SOIC	5.25	3.50	2.90
LT1080CN-ND	5V, Dual RS232 Driver/Receiver with Shutdown	18-Dip	5.63	3.75	3.15
LT1080CN#PBF-ND	5V, Dual RS232 Driver/Receiver with Shutdown* ***NEW!***	18-Dip	5.63	3.75	3.15
LT1081CN-ND	5V, Dual RS232 Driver/Receiver	16-Dip	4.75	3.17	2.65
LT1081CN#PBF-ND	5V, Dual RS232 Driver/Receiver* ***NEW!***	16-Dip	4.75	3.17	2.65
LT1081CSW-ND	5V, Dual RS232 Driver/Receiver	16-SOIC	6.00	4.00	3.35
LT1081CSW#PBF-ND	5V, Dual RS232 Driver/Receiver* ***NEW!***	16-SOIC	6.00	4.00	3.35
LT1130ACSW-ND	5V, RS232, 5 Drivers/5 Receivers	28-SOIC	7.63	5.10	4.25
LT1130ACSW#PBF-ND	5V, RS232, 5 Drivers/5 Receiversr* ***NEW!***	28-SOIC	7.63	5.10	4.25
LT1130AISW-ND	5V, RS232, 5 Drivers/5 Receivers	28-SOIC	9.13	6.10	5.20
LT1130AISW#PBF-ND	5V, RS232, 5 Drivers/5 Receivers* ***NEW!***	28-SOIC	9.13	6.10	5.20
LT1131ACNW-ND	5V, RS232, 5 Drivers/4 Receivers	28-Dip	7.25	4.83	4.00
LT1131ACNW#PBF-ND	5V, RS232, 5 Drivers/4 Receivers* ***NEW!***	28-Dip	7.25	4.83	4.00

* ***RoHS Compliant***

(Continued)

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Digi-Key			Price Each★		
Part No.	**Description**	**Pkg.**	**1**	**25**	**100**
LT1131ACSW-ND	5V, RS232, 5 Drivers/4 Receivers	28-SOIC	7.63	5.08	4.25
LT1131ACSW#PBF-ND	5V, RS232, 5 Drivers/4 Receivers* ***NEW!***	28-SOIC	7.63	5.08	4.25
LT1131CNW-ND	5V, RS232, 5 Drivers/4 Receivers	24-Dip	8.13	6.00	4.60
LT1132ACN-ND	5V, RS232, 5 Drivers/3 Receivers	24-Dip	7.25	4.83	4.00
LT1132ACN#PBF-ND	5V, RS232, 5 Drivers/3 Receivers* ***NEW!***	24-Dip	7.25	4.83	4.00
LT1132ACSW-ND	5V, RS232, 5 Drivers/3 Receivers	24-SOIC	7.63	5.08	4.25
LT1132ACSW#PBF-ND	5V, RS232, 5 Drivers/3 Receivers* ***NEW!***	24-SOIC	7.63	5.08	4.25
LT1132AISW-ND	5V, RS232, 5 Drivers/3 Receivers	24-SOIC	9.13	6.06	5.20
LT1133ACN-ND	5V, RS232, 3 Drivers/5 Receivers	24-Dip	7.25	4.83	4.00
LT1133ACN#PBF-ND	5V, RS232, 3 Drivers/5 Receivers* ***NEW!***	24-Dip	7.25	4.83	4.00
LT1133ACSW-ND	5V, RS232, 3 Drivers/5 Receivers	24-SOIC	7.63	5.08	4.25
LT1133ACSW#PBF-ND	5V, RS232, 3 Drivers/5 Receivers* ***NEW!***	24-SOIC	7.63	5.08	4.25
LT1133AISW-ND	5V, RS232, 3 Drivers/5 Receivers	24-SOIC	9.13	6.06	5.20
LT1134ACN-ND	5V, RS232, 4 Drivers/4 Receivers	24-Dip	7.00	4.67	3.75
LT1134ACN#PBF-ND	5V, RS232, 4 Drivers/4 Receivers* ***NEW!***	24-Dip	7.00	4.67	3.75
LT1134ACSW-ND	5V, RS232, 4 Drivers/4 Receivers	24-SOIC	7.00	4.67	3.75
LT1134ACSW#PBF-ND	5V, RS232, 4 Drivers/4 Receivers* ***NEW!***	24-SOIC	7.00	4.67	3.75
LT1134AIN-ND	5V, RS232, 4 Drivers/4 Receivers	24-Dip	9.00	6.00	5.00
LT1134AIN#PBF-ND	5V, RS232, 4 Drivers/4 Receivers* ***NEW!***	24-Dip	9.00	6.00	5.00
LT1134AISW-ND	5V, RS232, 4 Drivers/4 Receivers	24-SOIC	9.00	6.00	5.00
LT1134AISW#PBF-ND	5V, RS232, 4 Drivers/4 Receivers* ***NEW!***	24-SOIC	9.00	6.00	5.00
LT1135ACN-ND	5V, RS232, 5 Drivers/3 Receivers	20-Dip	5.88	3.92	3.25
LT1135ACN#PBF-ND	5V, RS232, 5 Drivers/3 Receivers* ***NEW!***	20-Dip	5.88	3.92	3.25
LT1135ACSW-ND	5V, RS232, 5 Drivers/3 Receivers	20-SOIC	6.25	4.17	3.45
LT1135ACSW#PBF-ND	5V, RS232, 5 Drivers/3 Receivers* ***NEW!***	20-SOIC	6.25	4.17	3.45
LT1136ACSW-ND	5V, RS232, 4 Drivers/5 Receivers	28-SOIC	7.63	5.08	4.25
LT1137ACG-ND	5V, RS232, 3 Drivers/5 Receivers	28-SSOP	7.75	5.17	4.15
LT1137ACG#PBF-ND	5V, RS232, 3 Drivers/5 Receivers* ***NEW!***	28-SSOP	7.75	5.17	4.15
LT1137ACNW-ND	5V, RS232, 3 Drivers/5 Receivers	28-Dip	7.00	4.65	3.75
LT1137ACNW#PBF-ND	5V, RS232, 3 Drivers/5 Receivers* ***NEW!***	28-Dip	7.00	4.65	3.75
LT1137ACSW-ND	5V, RS232, 3 Drivers/5 Receivers	28-SOIC	7.00	4.67	3.75
LT1137ACSW#PBF-ND	5V, RS232, 3 Drivers/5 Receivers* ***NEW!***	28-SOIC	7.00	4.67	3.75
LT1137AIG-ND	5V, RS232, 3 Drivers/5 Receivers	28-SSOP	8.88	5.90	4.85
LT1137AISW-ND	5V, RS232, 3 Drivers/5 Receivers	28-SOIC	8.38	5.58	4.50
LT1138ACNW-ND	5V, RS232, 5 Drivers/3 Receivers	28-Dip	7.25	4.83	4.00
LT1139ACSW-ND	5V or 12V, RS232, 4 Drivers/4 Receivers	24-SOIC	7.63	5.08	4.25
LT1140ACN-ND	5V, RS232, 5 Drivers/3 Receivers	24-Dip	5.88	3.92	3.25
LT1180ACN-ND	Low Power, 5V, RS232, Dual Driver/Receiver	18-Dip	4.63	3.08	2.45
LT1180ACN#PBF-ND	Low Power, 5V, RS232, Dual Driver/ Receiver* ***NEW!***	18-Dip	4.63	3.08	2.45
LT1180ACSW-ND	Low Power, 5V, RS232, Dual Driver/Receiver	18-SOIC	5.13	3.42	2.70
LT1180ACSW#PBF-ND	Low Power, 5V, RS232, Dual Driver/Receiver* ***NEW!***	18-SOIC	5.13	3.42	2.70
LT1181ACN-ND	Low Power, 5V, RS232, Dual Driver/Receiver	16-Dip	4.63	3.08	2.45
LT1181ACN#PBF-ND	Low Power, 5V, RS232, Dual Driver/Receiver* ***NEW!***	16-Dip	4.63	3.08	2.45
LT1181ACSW-ND	Low Power, 5V, RS232, Dual Driver/Receiver	16-SOIC	5.13	3.42	2.70
LT1181ACSW#PBF-ND	Low Power, 5V, RS232, Dual Driver/Receiver* ***NEW!***	16-SOIC	5.13	3.42	2.70
LT1237CG-ND	5V, RS232 Transceiver with Advanced Power Mgmt. and 1 Receiver Active in Shutdown	28-SSOP	8.13	5.42	4.25
LT1237CNW-ND	5V, RS232 Transceiver with Advanced Power Mgmt. and 1 Receiver Active in Shutdown	28-Dip	7.38	4.92	3.95
LT1237CSW-ND	5V, RS232 Transceiver with Advanced Power Management and 1 Receiver Active in Shutdown	28-SOIC	7.38	4.92	3.95
LT1280ACN-ND	Low Power 5V, RS232 Dual Driver/Receiver	18-Dip	5.00	3.33	2.65
LT1280ACN#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver* ***NEW!***	18-Dip	5.00	3.33	2.65
LT1280ACSW-ND	Low Power 5V, RS232 Dual Driver/Receiver	18-SOIC	5.50	3.67	2.90
LT1280ACSW#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver* ***NEW!***	18-SOIC	5.50	3.67	2.90
LT1281ACN-ND	Low Power 5V, RS232 Dual Driver/Receiver	16-Dip	5.00	3.33	2.65
LT1281ACN#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver* ***NEW!***	16-Dip	5.00	3.33	2.65
LT1281ACSW-ND	Low Power 5V, RS232 Dual Driver/Receiver	16-SOIC	5.50	3.67	2.90
LT1281ACSW#PBF-ND	Low Power 5V, RS232 Dual Driver/Receiver* ***NEW!***	16-SOIC	5.50	3.67	2.90
LT1330CSW-ND	5V, RS232 Transceiver with 3V Logic Interface	28-SOIC	7.38	4.92	3.95
LT1330CSW#PBF-ND	5V, RS232 Transceiver with 3V Logic Interface* ***NEW!***	28-SOIC	7.38	4.92	3.95
LT1331CG-ND	5V/3V, RS232 Xcvr. w/1 Receiver Active in Shutdown	28-SSOP	8.13	5.42	4.25
LT1331CG#PBF-ND	5V/3V, RS232 Xcvr. w/1 Receiver Active in Shutdown* ***NEW!***	28-SSOP	8.13	5.42	4.25
LT1331CNW-ND	5V/3V, RS232 Xcvr. w/1 Receiver Active in Shutdown	28-Dip	7.38	4.92	3.95
LT1341CG-ND	5V, RS232, 3 Driver/5 Receiver w/1 Receiver Active in SD	28-SSOP	8.13	5.42	4.25
LT1341CNW-ND	5V, RS232, 3 Driver/5 Receiver w/1 Receiver Active in SD	28-Dip	7.38	4.92	3.95
LT1341CSW-ND	5V, RS232, 3 Driver/5 Receiver w/1 Receiver Active in SD	28-SOIC	7.38	4.92	3.95
LT1341CSW#PBF-ND	5V, RS232, 3 Driver/5 Receiver w/1 Receiver Active in SD* ***NEW!***	28-SOIC	7.38	4.92	3.95
LT1342CG-ND	5V, RS232, 3 Driver/5 Receiver with 3V Logic	28-SSOP	7.75	5.17	4.20
LT1342CG#PBF-ND	5V, RS232, 3 Driver/5 Receiver with 3V Logic* ***NEW!***	28-SSOP	7.75	5.17	4.20
LT1381CS-ND	5V, RS232, Dual Driver/Receiver	16-SOIC	3.50	2.33	2.00
LT1381CS#PBF-ND	5V, RS232, Dual Driver/Receiver* ***NEW!***	16-SOIC	3.50	2.33	2.00
LT1537CG-ND	5V, Low Power, RS232, 3 Drivers/5 Receivers	28-SSOP	6.00	4.00	3.40
LT1537CG#PBF-ND	5V, Low Power, RS232, 3 Drivers/5 Receivers* ***NEW!***	28-SSOP	6.00	4.00	3.40
LT1780CN-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD	18-Dip	5.25	3.49	2.95
LT1780CN#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD* ***NEW!***	18-Dip	5.25	3.49	2.95
LT1780CSW-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD	18-SOIC	5.75	3.82	3.25
LT1780CSW#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD* ***NEW!***	18-SOIC	5.75	3.82	3.25
LT1781CN-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD	16-Dip	5.25	3.49	2.95
LT1781CN#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD* ***NEW!***	16-Dip	5.25	3.49	2.95
LT1781CS-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD	16-SOIC	5.63	3.74	3.15
LT1781CS#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD* ***NEW!***	16-SOIC	5.63	3.74	3.15
LT1781CSW-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD	16-SOIC	5.75	3.82	3.25
LT1781CSW#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD* ***NEW!***	16-SOIC	5.75	3.82	3.25
LT1781IS-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD	16-SOIC	7.00	4.65	3.75
LT1781IS#PBF-ND	5V, RS232, Dual Driver/Receiver, 15KV ESD* ***NEW!***	16-SOIC	7.00	4.65	3.75
LTC1327CG-ND	3V, 3 Driver/5 Receiver EIA/TIA-562 Transceiver	28-SSOP	9.50	6.35	5.00
LTC1327CNW-ND	3V, 3 Driver/5 Receiver EIA/TIA-562 Transceiver	28-Dip	8.75	5.85	4.70
LTC1327CSW-ND	3V, 3 Driver/5 Receiver EIA/TIA-562 Transceiver	28-SOIC	8.75	5.85	4.70
LTC1337CG-ND	5V, 3 Driver/5 Receiver RS232 Transceiver	28-SSOP	9.50	6.35	5.00
LTC1337CG#PBF-ND	5V, 3 Driver/5 Receiver RS232 Transceiver* ***NEW!***	28-SSOP	9.50	6.35	5.00
LTC1337CNW-ND	5V, 3 Driver/5 Receiver RS232 Transceiver	28-Dip	8.75	5.85	4.70
LTC1337CSW-ND	5V, 3 Driver/5 Receiver RS232 Transceiver	28-SOIC	8.75	5.85	4.70
LTC1337CSW#PBF-ND	5V, 3 Driver/5 Receiver RS232 Transceiver* ***NEW!***	28-SOIC	8.75	5.85	4.70
LTC1338CG-ND	5V, 5 Driver/3 Receiver RS232 Transceiver	28-SSOP	10.13	6.75	5.65
LTC1338CG#PBF-ND	5V, 5 Driver/3 Receiver RS232 Transceiver* ***NEW!***	28-SSOP	10.13	6.75	5.65
LTC1338CSW-ND	5V, 5 Driver/3 Receiver RS232 Transceiver	28-SOIC	9.38	6.25	5.25
LTC1348CG-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver	28-SSOP	8.75	5.85	4.80
LTC1348CG#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver* ***NEW!***	28-SSOP	8.75	5.85	4.80
LTC1348CSW-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver	28-SOIC	8.13	5.45	4.50
LTC1348CSW#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver* ***NEW!***	28-SOIC	8.13	5.45	4.50
LTC1348IG-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver	28-SSOP	10.13	6.75	5.80
LTC1348IG#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver* ***NEW!***	28-SSOP	10.13	6.75	5.80
LTC1348ISW-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver	28-SOIC	9.38	6.25	5.35
LTC1348ISW#PBF-ND	3.3V/5V, LP, RS232, 3 Driver/5 Receiver Transceiver* ***NEW!***	28-SOIC	9.38	6.25	5.35
LTC1349CSW-ND	5V, LP, RS232 3 Driver/5 Receiver Transceiver	28-SOIC	8.75	5.85	4.70
LTC1349ISW-ND	5V, LP, RS232 3 Driver/5 Receiver Transceiver	28-SOIC	9.63	6.40	5.20
LTC1350CG-ND	3V, EIA/TIA-562, 3 Driver/5 Receiver Transceiver	28 SSOP	9.50	6.35	5.00
LTC1350IG-ND	3V, EIA/TIA-562, 3 Driver/5 Receiver Transceiver	28-SSOP	10.38	6.90	5.50
LTC1350IG#PBF-ND	3V, EIA/TIA-562, 3 Driver/5 Receiver Transceiver* ***NEW!***	28-SSOP	10.38	6.90	5.50
LTC1382CN-ND	5V, RS232, 2 Driver/2 Receiver Transceiver w/Shutdown	18-Dip	6.50	4.35	3.40
LTC1382CN#PBF-ND	5V, RS232, 2 Driver/2 Receiver Transceiver w/Shutdown* ***NEW!***	18-Dip	6.50	4.35	3.40
LTC1382CSW-ND	5V, RS232, 2 Driver/2 Receiver Transceiver w/Shutdown	18-SOIC	6.50	4.35	3.40
LTC1382CSW#PBF-ND	5V, RS232, 2 Driver/2 Receiver Transceiver w/Shutdown* ***NEW!***	18-SOIC	6.50	4.35	3.40
LTC1383CN-ND	5V, RS232, Low Power 2 Driver/2 Receiver Transceiver.	16-Dip	5.63	3.75	3.00
LTC1383CN#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Transceiver* ***NEW!***	16-Dip	5.63	3.75	3.00
LTC1383CS-ND	5V, RS232, Low Power 2 Driver/2 Receiver Transceiver.	16-SOIC	5.63	3.75	3.00
LTC1383CS#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Transceiver* ***NEW!***	16-SOIC	5.63	3.75	3.00
LTC1383IS-ND	5V, RS232, Low Power 2 Driver/2 Receiver Transceiver.	16-SOIC	6.50	4.32	3.70
LTC1383IS#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Transceiver* ***NEW!***	16-SOIC	6.50	4.32	3.70
LTC1384CN-ND	5V, RS232, Low Power 2 Driver/2 Receiver Transceiver	18-Dip	6.50	4.35	3.40
LTC1384CN#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Transceiver* ***NEW!***	18-Dip	6.50	4.35	3.40
LTC1384CSW-ND	5V, RS232, Low Power 2 Driver/2 Receiver Transceiver	18-SOIC	6.50	4.35	3.40
LTC1384CSW#PBF-ND	5V, RS232, Low Power 2 Driver/2 Receiver Transceiver* ***NEW!***	18-SOIC	6.50	4.35	3.40
LTC1385CG-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Transceiver	20-SSOP	7.25	4.85	3.85
LTC1385CG#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Transceiver* ***NEW!***	20-SSOP	7.25	4.85	3.85
LTC1385CN-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Transceiver	18-Dip	6.50	4.35	3.40
LTC1385CN#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Transceiver* ***NEW!***	18-Dip	6.50	4.35	3.40
LTC1385CSW-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Transceiver	18-SOIC	6.50	4.35	3.40
LTC1385CSW#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Transceiver* ***NEW!***	18-SOIC	6.50	4.35	3.40
LTC1386CS-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Transceiver	16-SOIC	5.63	3.75	3.00
LTC1386CS#PBF-ND	3.3V, EIA/TIA-562, LP 2 Driver/2 Receiver Transceiver* ***NEW!***	16-SOIC	5.63	3.75	3.00
	RS485/RS422				
LT1785AIN8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-Dip	5.63	3.75	3.00
LT1785AIN8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver* ***NEW!***	8-Dip	5.63	3.75	3.00
LT1785AIS8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	5.75	3.85	3.10
LT1785AIS8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver* ***NEW!***	8-SOIC	5.75	3.85	3.10
LT1785CN8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-Dip	4.00	2.66	2.10
LT1785CN8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver* ***NEW!***	8-Dip	4.00	2.66	2.10
LT1785CS8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	4.13	2.74	2.15
LT1785CS8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver* ***NEW!***	8-SOIC	4.13	2.74	2.15
LT1785IN8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-Dip	4.63	3.08	2.40
LT1785IN8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver* ***NEW!***	8-Dip	4.63	3.08	2.40
LT1785IS8-ND	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	4.75	3.16	2.45
LT1785IS8#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver* ***NEW!***	8-SOIC	4.75	3.16	2.45
LT1791AIS-ND	60V, Fault Protected RS485/RS422 Transceiver	14-SOIC	6.38	4.25	3.40
LT1791AIS#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver* ***NEW!***	14-SOIC	6.38	4.25	3.40
LT1791CN-ND	60V, Fault Protected RS485/RS422 Transceiver	14-Dip	4.38	2.91	2.30
LT1791CN#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver* ***NEW!***	14-Dip	4.38	2.91	2.30
LT1791CS-ND	60V, Fault Protected RS485/RS422 Transceiver	14-SOIC	4.50	2.99	2.35
LT1791CS#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver* ***NEW!***	14-SOIC	4.50	2.99	2.35
LT1791IS-ND	60V, Fault Protected RS485/RS422 Transceiver	8-SOIC	5.13	3.41	2.65
LT1791IS#PBF-ND	60V, Fault Protected RS485/RS422 Transceiver* ***NEW!***	8-SOIC	5.13	3.41	2.65
LTC485CN8-ND	Low Power RS485 Transceiver/Receiver Interface	8-Dip	2.50	1.66	1.35
LTC485CN8#PBF-ND	Low Power RS485 Transceiver/Receiver Interface* ***NEW!***	8-Dip	2.50	1.66	1.35
LTC485CS8-ND	Low Power RS485 Transceiver/Receiver Interface	8-SOIC	3.13	2.10	1.70
LTC485CS8#PBF-ND	Low Power RS485 Transceiver/Receiver Interface* ***NEW!***	8-SOIC	3.13	2.10	1.70
LTC485IN8-ND	Low Power RS485 Interface Transceiver	8-Dip	3.38	2.25	1.90
LTC486CN-ND	Low Power Quad RS485 Driver	16-Dip	6.50	4.35	3.70
LTC486CN#PBF-ND	Low Power Quad RS485 Driver* ***NEW!***	16-Dip	6.50	4.35	3.70
LTC486CSW-ND	Low Power Quad RS485 Driver	16-SOIC	7.50	5.00	4.25
LTC486CSW#PBF-ND	Low Power Quad RS485 Driver* ***NEW!***	16-SOIC	7.50	5.00	4.25
LTC487CN-ND	Low Power Quad RS485 Driver	16-Dip	6.50	4.35	3.70
LTC487CN#PBF-ND	Low Power Quad RS485 Driver* ***NEW!***	16-Dip	6.50	4.35	3.70
LTC487CSW-ND	Low Power Quad RS485 Driver	16-SOIC	7.50	5.00	4.25
LTC487CSW#PBF-ND	Low Power Quad RS485 Driver* ***NEW!***	16-SOIC	7.50	5.00	4.25
LTC488CN-ND	Low Power Quad RS485 Receiver	16-Dip	6.50	4.33	3.70
LTC488CN#PBF-ND	Low Power Quad RS485 Receiver* ***NEW!***	16-Dip	6.50	4.33	3.70
LTC488CSW-ND	Low Power Quad RS485 Receiver	16-SOIC	7.50	5.00	4.25
LTC488CSW#PBF-ND	Low Power Quad RS485 Receiver* ***NEW!***	16-SOIC	7.50	5.00	4.25
LTC489CN-ND	Low Power Quad RS485 Receiver	16-Dip	6.50	4.33	3.70
LTC489CN#PBF-ND	Low Power Quad RS485 Receiver* ***NEW!***	16-Dip	6.50	4.33	3.70
LTC489CSW-ND	Low Power Quad RS485 Receiver	16-SOIC	7.50	5.00	4.25
LTC489CSW#PBF-ND	Low Power Quad RS485 Receiver* ***NEW!***	16-SOIC	7.50	5.00	4.25
LTC490CN8-ND	Low Power RS485 Transceiver/Receiver	8-Dip	4.38	2.92	2.50
LTC490CN8#PBF-ND	Low Power RS485 Transceiver/Receiver* ***NEW!***	8-Dip	4.38	2.92	2.50
LTC490CS8-ND	Low Power RS485 Transceiver/Receiver	8-SOIC	5.38	3.58	3.05
LTC490CS8#PBF-ND	Low Power RS485 Transceiver/Receiver* ***NEW!***	8-SOIC	5.38	3.58	3.05
LTC490IS8-ND	Low Power RS485/RS422 Transceiver	8-SOIC	6.38	4.25	3.45
LTC490IS8#PBF-ND	Low Power RS485/RS422 Transceiver* ***NEW!***	8-SOIC	6.38	4.25	3.45
LTC491CN-ND	Low Power RS485 Transceiver/Receiver	14-Dip	4.88	3.25	2.80
LTC491CN#PBF-ND	Low Power RS485 Transceiver/Receiver* ***NEW!***	14-Dip	4.88	3.25	2.80
LTC491CS-ND	Low Power RS485 Transceiver/Receiver	14-SOIC	5.88	3.92	3.25
LTC491CS#PBF-ND	Low Power RS485 Transceiver/Receiver* ***NEW!***	14-SOIC	5.88	3.92	3.25
LTC491IS-ND	Low Power RS485/RS422 Transceiver	14-SOIC	7.13	4.75	4.05
LTC491IS#PBF-ND	Low Power RS485/RS422 Transceiver* ***NEW!***	14-SOIC	7.13	4.75	4.05
LTC1480CN8-ND	3.3V, Ultra Low Power RS485 Transceiver	8-Dip	4.75	3.16	2.65
LTC1480CN8#PBF-ND	3.3V, Ultra Low Power RS485 Transceiver* ***NEW!***	8-Dip	4.75	3.16	2.65

***RoHS Compliant**

(Continued)

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INTERFACE *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1480CS8-ND	3.3V, Ultra Low Power RS485 Transceiver	8-SOIC	5.13	3.41	2.75
LTC1480CS8#PBF-ND	3.3V, Ultra Low Power RS485 Transceiver* **NEW!**	8-SOIC	5.13	3.41	2.75
LTC1480IS8-ND	3.3V, Ultra Low Power RS485 Transceiver, Ind. Temp.	8-SOIC	6.63	4.40	3.55
LTC1480IS8#PBF-ND	3.3V, Ultra Low Power RS485 Transceiver, Ind. Temp* **NEW!**	8-SOIC	6.63	4.40	3.55
LTC1481CN8-ND	Ultra Low Power RS485 Transceiver with Shutdown	8-Dip	2.75	1.85	1.45
LTC1481CN8#PBF-ND	Ultra Low Power RS485 Transceiver with Shutdown* **NEW!**	8-Dip	2.75	1.85	1.45
LTC1481CS8-ND	Ultra Low Power RS485 Transceiver with Shutdown	8-SOIC	3.38	2.25	1.80
LTC1481CS8#PBF-ND	Ultra Low Power RS485 Transceiver with Shutdown* **NEW!**	8-SOIC	3.38	2.25	1.80
LTC1481IS8-ND	Ultra Low Power RS485 Transceiver with Shutdown	8-SOIC	4.38	2.91	2.40
LTC1481IS8#PBF-ND	Ultra Low Power RS485 Transceiver with Shutdown* **NEW!**	8-SOIC	4.38	2.91	2.40
LTC1482CMS8-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe	8-MSOP	4.88	3.25	2.55
LTC1482CMS8#PBF-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe* **NEW!**	8-MSOP	4.88	3.25	2.55
LTC1482CN8-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe	8-Dip	4.00	2.66	2.10
LTC1482CS8-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe	8-SOIC	4.13	2.75	2.15
LTC1482CS8#PBF-ND	Low Power RS485 Transceiver with Carrier Detect and Receiver Fail Safe* **NEW!**	8-SOIC	4.13	2.75	2.15
LTC1483CN8-ND	Ultra Low Power, Low EMI RS485 Transceiver	8-Dip	2.75	1.85	1.55
LTC1483CN8#PBF-ND	Ultra Low Power, Low EMI RS485 Transceiver* **NEW!**	8-Dip	2.75	1.85	1.55
LTC1483CS8-ND	Ultra Low Power, Low EMI RS485 Transceiver	8-SOIC	3.38	2.25	1.90
LTC1483CS8#PBF-ND	Ultra Low Power, Low EMI RS485 Transceiver* **NEW!**	8-SOIC	3.38	2.25	1.90
LTC1483IS8-ND	Ultra Low Power, Low EMI RS485 Transceiver	8-SOIC	4.38	2.91	2.40
LTC1483IS8#PBF-ND	Ultra Low Power, Low EMI RS485 Transceiver* **NEW!**	8-SOIC	4.38	2.91	2.40
LTC1484CMS8-ND	Low Power RS485 Transceiver with Receiver Fail Safe	8-MSOP	4.25	2.85	2.20
LTC1484CMS8#PBF-ND	Low Power RS485 Transceiver with Receiver Fail Safe* **NEW!**	8-MSOP	4.25	2.85	2.20
LTC1484CN8-ND	Low Power RS485 Transceiver with Receiver Fail Safe	8-Dip	3.38	2.25	1.75
LTC1484CN8#PBF-ND	Low Power RS485 Transceiver with Receiver Fail Safe* **NEW!**	8-Dip	3.38	2.25	1.75
LTC1484CS8-ND	Low Power RS485 Transceiver with Receiver Fail Safe	8-SOIC	3.50	2.35	1.80
LTC1484CS8#PBF-ND	Low Power RS485 Transceiver with Receiver Fail Safe* **NEW!**	8-SOIC	3.50	2.35	1.80
LTC1484IS8-ND	LP RS485 Transceiver with Receiver Fail Safe, Ind. Temp.	8-SOIC	4.63	3.10	2.45
LTC1484IS8#PBF-ND	LP RS485 Transceiver with Receiver Fail Safe, Ind. Temp* **NEW!**	8-SOIC	4.63	3.10	2.45
LTC1485CN8-ND	Differential Bus Transceiver	8-Dip	3.00	2.00	1.70
LTC1485CN8#PBF-ND	Differential Bus Transceiver* **NEW!**	8-Dip	3.00	2.00	1.70
LTC1485CS8-ND	Differential Bus Transceiver	8-SOIC	3.38	2.25	1.90
LTC1485CS8#PBF-ND	Differential Bus Transceiver* **NEW!**	8-SOIC	3.38	2.25	1.90
LTC1487CN8-ND	Ultra Low Power RS485 Transceiver with Low EMI, Shutdown, High Input Impedance	8-Dip	2.75	1.85	1.55
LTC1487CN8#PBF-ND	Ultra Low Power RS485 Transceiver with Low EMI, Shutdown, High Input Impedance* **NEW!**	8-Dip	2.75	1.85	1.55
LTC1487CS8-ND	Ultra Low Power RS485 Transceiver with Low EMI, Shutdown, High Input Impedance	8-SOIC	3.38	2.25	1.90
LTC1487CS8#PBF-ND	Ultra Low Power RS485 Transceiver with Low EMI, Shutdown, High Input Impedance* **NEW!**	8-SOIC	3.38	2.25	1.90
LTC1518CS-ND	High-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	10.13	6.73	5.80
LTC1518CS#PBF-ND	High-Speed Precision Delay RS485 Quad Line Receiver* **NEW!**	16-SOIC	10.13	6.73	5.80
LTC1518IS-ND	High-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	11.63	7.75	6.20
LTC1518IS#PBF-ND	High-Speed Precision Delay RS485 Quad Line Receiver* **NEW!**	16-SOIC	11.63	7.75	6.20
LTC1519CS-ND	High-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	10.13	6.75	5.80
LTC1519CS#PBF-ND	High-Speed Precision Delay RS485 Quad Line Receiver* **NEW!**	16-SOIC	10.13	6.75	5.80
LTC1519IS-ND	High-Speed Precision Delay RS485 Quad Line Receiver	16-SOIC	11.63	7.75	6.20
LTC1519IS#PBF-ND	High-Speed Precision Delay RS485 Quad Line Receiver* **NEW!**	16-SOIC	11.63	7.75	6.20
LTC1535ISW-ND	Isolated RS485 Transceiver	28-SOIC	12.75	8.47	6.50
LTC1535ISW#PBF-ND	Isolated RS485 Transceiver* **NEW!**	28-SOIC	12.75	8.47	6.50
LTC1685CS8-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	5.63	3.74	3.15
LTC1685CS8#PBF-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver* **NEW!**	8-SOIC	5.63	3.74	3.15
LTC1685IS8-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	6.50	4.32	3.40
LTC1685IS8#PBF-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver* **NEW!**	8-SOIC	6.50	4.32	3.40
LTC1686CS8-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	8.38	5.57	4.50
LTC1686CS8#PBF-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver* **NEW!**	8-SOIC	8.38	5.57	4.50
LTC1686IS8-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	8-SOIC	9.63	6.40	5.00
LTC1686IS8#PBF-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver* **NEW!**	8-SOIC	9.63	6.40	5.00
LTC1687CS-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	14-SOIC	8.38	5.57	4.50
LTC1687CS#PBF-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver* **NEW!**	14-SOIC	8.38	5.57	4.50
LTC1687IS-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver	14-SOIC	9.63	6.40	5.00
LTC1687IS#PBF-ND	52Mbps Precision Delay RS485 Fail-Safe Transceiver* **NEW!**	14-SOIC	9.63	6.40	5.00
LTC1688CS-ND	100Mbps RS485 Hot Swap Quad Driver	16-SOIC	10.13	6.73	5.25
LTC1688CS#PBF-ND	100Mbps RS485 Hot Swap Quad Driver* **NEW!**	16-SOIC	10.13	6.73	5.25
LTC1688IS-ND	100Mbps RS485 Hot Swap Quad Driver, Ind. Temp.	16-SOIC	11.63	7.75	6.20
LTC1688IS#PBF-ND	100Mbps RS485 Hot Swap Quad Driver, Ind. Temp.* **NEW!**	16-SOIC	11.63	7.75	6.20
LTC1689CS-ND	100Mbps RS485 Hot Swap Quad Driver	16-SOIC	10.13	6.73	5.25
LTC1689CS#PBF-ND	100Mbps RS485 Hot Swap Quad Driver* **NEW!**	16-SOIC	10.13	6.73	5.25
LTC1689IS-ND	100Mbps RS485 Hot Swap Quad Driver, Ind. Temp.	16-SOIC	11.63	7.75	6.20
LTC1689IS#PBF-ND	100Mbps RS485 Hot Swap Quad Driver, Ind. Temp* **NEW!**	16-SOIC	11.63	7.75	6.20
LTC1690CS8-ND	Low Power Driver/Receiver with Fail-Safe Receiver Output	8-SOIC	3.50	2.35	1.80
LTC1690CS8#PBF-ND	Low Power Driver/Receiver with Fail-Safe Receiver Output* **NEW!**	8-SOIC	3.50	2.35	1.80

CAN

Digi-Key Part No.	Description	Pkg.	1	25	100
LT1796CN8-ND	Overvoltage Fault Protected CAN Transceiver	8-Dip	3.00	2.00	1.65
LT1796CS8-ND	Overvoltage Fault Protected CAN Transceiver	8-SOIC	3.00	2.00	1.65
LT1796CS8#PBF-ND	Overvoltage Fault Protected CAN Transceiver* **NEW!**	8-SOIC	3.00	2.00	1.65
LT1796IS8-ND	Overvoltage Fault Protected CAN Transceiver	8-SOIC	3.50	2.33	1.95

Multiprotocol

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LTC1321CN-ND	RS485/RS232/EIA562 Transceiver/Receiver	24-Dip	8.75	5.85	4.65
LTC1321CSW#PBF-ND	RS485/RS232/EIA562 Transceiver/Receiver, Ind. Temp* **NEW!**	24-SOIC	8.75	5.85	4.65
LTC1321ISW-ND	RS485/RS232/EIA562 Transceiver/Receiver, Ind. Temp.	24-SOIC	10.50	7.00	5.60
LTC1322CN-ND	RS485/RS232/EIA562 Transceiver/Receiver	24-Dip	10.00	6.65	5.35
LTC1322CSW-ND	RS485/RS232/EIA562 Transceiver/Receiver	24-SOIC	10.00	6.65	5.35
LTC1322CSW#PBF-ND	RS485/RS232/EIA562 Transceiver/Receiver* **NEW!**	24-SOIC	10.00	6.65	5.35
LTC1334CG-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-SSOP	13.00	8.64	7.45
LTC1334CG#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver* **NEW!**	28-SSOP	13.00	8.64	7.45
LTC1334CNW-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-Dip	12.25	8.15	7.00
LTC1334CNW#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver* **NEW!**	28-Dip	12.25	8.15	7.00
LTC1334CSW-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-SOIC	12.25	8.15	7.00
LTC1334CSW#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver* **NEW!**	28-SOIC	12.25	8.15	7.00
LTC1334ISW-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver	28-SOIC	14.25	9.50	8.15
LTC1334ISW#PBF-ND	CMOS 5V, RS232/RS485 Multiprotocol Transceiver* **NEW!**	28-SOIC	14.25	9.50	8.15
LTC1343CGW-ND	Software Selectable Multiprotocol Transceiver	44-SSOP	23.50	15.65	13.40
LTC1343CGW#PBF-ND	Software Selectable Multiprotocol Transceiver* **NEW!**	44-SSOP	23.50	15.65	13.40
LTC1343IGW#PBF-ND	Software Selectable Multiprotocol Transceiver* **NEW!**	44-SSOP	27.00	17.93	14.40
LTC1344ACG-ND	Multiprotocol Cable Terminator	24-SSOP	13.63	9.05	6.82
LTC1344ACG#PBF-ND	Multiprotocol Cable Terminator* **NEW!**	24-SSOP	13.63	9.05	6.80
LTC1344CG-ND	Multiprotocol Cable Terminator	24-SSOP	13.63	9.05	6.82
LTC1344CG#PBF-ND	Multiprotocol Cable Terminator* **NEW!**	24-SSOP	13.63	9.05	6.80
LTC1344IG-ND	Multiprotocol Cable Terminator	24-SSOP	15.63	10.38	8.35
LTC1344IG#PBF-ND	Multiprotocol Cable Terminator* **NEW!**	24-SSOP	15.63	10.38	8.35
LTC1345CNW-ND	Single Supply V.35 Differential Transceiver	28-Dip	13.88	9.25	7.40
LTC1345CSW-ND	Single Supply V.35 Differential Transceiver	28-SOIC	14.38	9.60	7.65
LTC1345CSW#PBF-ND	Single Supply V.35 Differential Transceiver* **NEW!**	28-SOIC	14.38	9.60	7.65
LTC1346ACSW-ND	10mbps DCE/DTE V.35 Transceiver	24-SOIC	12.38	8.25	7.10
LTC1346ACSW#PBF-ND	10mbps DCE/DTE V.35 Transceiver* **NEW!**	24-SOIC	12.38	8.25	7.10
LTC1387CG-ND	5V, Single RS232/RS485 Transceiver	20-SSOP	9.13	6.10	5.20
LTC1387CG#PBF-ND	5V, Single RS232/RS485 Transceiver* **NEW!**	20-SSOP	9.13	6.10	5.20
LTC1387CSW-ND	5V, Single RS232/RS485 Transceiver	20-SOIC	8.50	5.65	4.85
LTC1387CSW#PBF-ND	5V, Single RS232/RS485 Transceiver* **NEW!**	20-SOIC	8.50	5.65	4.85
LTC1387IG-ND	5V, Single RS232/RS485 Transceiver, Ind. Temp.	20-SSOP	10.50	7.00	6.00
LTC1387IG#PBF-ND	5V, Single RS232/RS485 Transceiver, Ind. Temp* **NEW!**	20-SSOP	10.50	7.00	6.00
LTC1387ISW-ND	5V, Single RS232/RS485 Transceiver, Ind. Temp.	20-SOIC	9.75	6.50	5.60
LTC1387ISW#PBF-ND	5V, Single RS232/RS485 Transceiver, Ind. Temp* **NEW!**	20-SOIC	9.75	6.50	5.60
LTC1543CG-ND	Software Selectable Multiprotocol Transceiver	28-SSOP	14.88	9.88	7.45
LTC1543CG#PBF-ND	Software Selectable Multiprotocol Transceiver* **NEW!**	28-SSOP	14.88	9.88	7.45
LTC1544CG-ND	Software Selectable Multiprotocol Transceiver	28-SSOP	12.25	8.14	6.15
LTC1544CG#PBF-ND	Software Selectable Multiprotocol Transceiver* **NEW!**	28-SSOP	12.25	8.14	6.15
LTC1545CG-ND	Software Selectable Multiprotocol Transceiver	36-SSOP	14.38	9.55	7.20
LTC2844CG-ND	3.3V Software Selectable Multiprotocol Transceiver	28-SSOP	11.88	7.89	6.15
LTC2844CG#PBF-ND	3.3V Software Selectable Multiprotocol Transceiver* **NEW!**	28-SSOP	11.88	7.89	6.15
LTC2845CG-ND	3.3V Software Selectable Multiprotocol Transceiver	36-SSOP	13.88	9.22	7.20
LTC2846CG-ND	3.3V Software Selectable Multiprotocol Transceiver	36-SSOP	23.75	16.96	13.97
LTC2846CG#PBF-ND	3.3V Software Selectable Multiprotocol Transceiver* **NEW!**	36-SSOP	23.75	16.96	13.97

I^{2}C and SMBus

Digi-Key Part No.	Description	Pkg.	1	25	100
LTC1694CS5-ND	Dual SMBus Accelerator	SOT-23-5	2.73	1.81	1.37
LTC1694CS5#PBF-ND	Dual SMBus Accelerator* **NEW!**	SOT-23-5	2.73	1.81	1.37
LTC1694-1IS5-ND	SMBus/I^{2}C Accelerator	SOT-23-5	3.23	2.15	1.76
LTC1694-1IS5#PBF-ND	SMBus/I^{2}C Accelerator* **NEW!**	SOT-23-5	3.23	2.15	1.76
LTC4300-1CMS8-ND	Hot Swap 2-Wire Bus Buffer	8-MSOP	3.50	2.35	2.00
LTC4300-1CMS8#PBF-ND	Hot Swap 2-Wire Bus Buffer* **NEW!**	8-MSOP	3.50	2.35	2.00
LTC4300A-1CMS8-ND	Hot Swap 2-Wire Bus Buffer	8-MSOP	3.50	2.35	2.00
LTC4300A-1CMS8#PBF-ND	Hot Swap 2-Wire Bus Buffer* **NEW!**	8-MSOP	3.50	2.35	2.00
LTC4302CMS-1-ND	Addressable 2-Wire Bus Buffer	10-MSOP	5.00	3.32	2.70
LTC4302CMS-2-ND	Addressable 2-Wire Bus Buffer	10-MSOP	5.00	3.32	2.70
LTC4302CMS-2#PBF-ND	Addressable 2-Wire Bus Buffer* **NEW!**	10-MSOP	5.00	3.32	2.70
LTC4305CDHD#PBF-ND	2-Channel, 2-Wire Bus Multiplexer* **NEW!**	16-DFN	5.70	4.07	3.35
LTC4305CGN#PBF-ND	2-Channel, 2-Wire Bus Multiplexer* **NEW!**	16-SSOP	5.60	4.00	3.29
LTC4305IDHD#PBF-ND	2-Channel, 2-Wire Bus Multiplexer* **NEW!**	16-DFN	6.80	4.86	4.00
LTC4305IGN#PBF-ND	2-Channel, 2-Wire Bus Multiplexer* **NEW!**	16-SSOP	6.70	4.79	3.94
LTC4306CGN#PBF-ND	4-Channel, 2-Wire Bus Multiplexer* **NEW!**	24-SSOP	7.00	5.00	4.12
LTC4306CUFD#PBF-ND	4-Channel, 2-Wire Bus Multiplexer* **NEW!**	24-QFN	7.10	5.07	4.18
LTC4306IGN#PBF-ND	4-Channel, 2-Wire Bus Multiplexer* **NEW!**	24-SSOP	8.40	6.00	4.94
LTC4306IUFD#PBF-ND	4-Channel, 2-Wire Bus Multiplexer* **NEW!**	24-QFN	8.50	6.07	5.00

SPECIALIZED ICs

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
LT1025ACN8-ND	Micropower Thermocouple Cold Junction Compensator	8-Dip	8.63	5.75	4.75
LT1025ACN8#PBF-ND	Micropower Thermocouple Cold Junction Compensator* **NEW!**	8-Dip	8.63	5.75	4.75
LT1025CN8-ND	Micropower Thermocouple Cold Junction Compensator	8-Dip	4.63	3.08	2.65
LT1025CN8#PBF-ND	Micropower Thermocouple Cold Junction Compensator* **NEW!**	8-Dip	4.63	3.08	2.65
LT1203CN8-ND	2-Input, 150MHz Video Multiplexer	8-Dip	3.13	2.08	1.57
LT1203CN8#PBF-ND	2-Input, 150MHz Video Multiplexer* **NEW!**	8-Dip	3.13	2.08	1.57
LT1203CS8-ND	2-Input, 150MHz Video Multiplexer	8-SOIC	3.38	2.25	1.69
LT1203CS8#PBF-ND	2-Input, 150MHz Video Multiplexer* **NEW!**	8-SOIC	3.38	2.25	1.69
LT1204CN-ND	4-Input Video Multiplexer with 75MHz Current Feedback	16-Dip	9.00	6.00	4.95
LT1204CSW-ND	4-Input Video Multiplexer with 75MHz Current Feedback	16-SOIC	9.75	6.50	5.40
LT1204CSW#PBF-ND	4-Input Video Multiplexer with 75MHz Current Feedback* **NEW!**	16-SOIC	9.75	6.50	5.40
LT1205CS-ND	4-Input, 150MHz, Dual Video Multiplexer	16-SOIC	5.38	3.57	2.70
LT1205CS#PBF-ND	4-Input, 150MHz, Dual Video Multiplexer* **NEW!**	16-SOIC	5.38	3.57	2.70
LT1675CGN-ND	Triple, High Speed RGB Multiplexer	16-SSOP	6.63	4.40	3.55
LT1675CGN#PBF-ND	Triple, High Speed RGB Multiplexer* **NEW!**	16-SSOP	6.63	4.40	3.55
LT1675CMS8-1#PBF-ND	Single, High Speed RGB Multiplexer* **NEW!**	8-MSOP	4.50	2.99	2.30
LT1675CS8-1-ND	Single, High Speed RGB Multiplexer	8-SOIC	4.13	2.74	2.07
LT1675CS8-1#PBF-ND	Single, High Speed RGB Multiplexer* **NEW!**	8-SOIC	4.13	2.74	2.07
LTC1041CN8-ND	CMOS Bang-Bang Controller	8-Dip	3.38	2.25	1.90
LTC1041CN8#PBF-ND	CMOS Bang-Bang Controller* **NEW!**	8-Dip	3.38	2.25	1.90
LTC1043CN-ND	Dual, Precision Instr. Switched-Cap Building Block	18-Dip	5.13	3.42	2.95
LTC1043CN#PBF-ND	Dual, Precision Instr. Switched-Cap Building Block* **NEW!**	18-Dip	5.13	3.42	2.95
LTC1043CSW-ND	Dual, Precision Instr. Switched-Cap Building Block	18-SOIC	5.63	3.75	3.10

* ***RoHS Compliant***

(Continued)

LINEAR TECHNOLOGY SPECIALIZED ICs *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LTC1043CSW#PBF-ND	Dual, Precision Instr. Switched-Cap Building Block* ***NEW!***	18-SOIC	5.63	3.75	3.10
LTC1045CN-ND	Programmable µpower Hex Translator/Receiver/Driver	20-Dip	5.25	3.50	2.95
LTC1045CN#PBF-ND	Programmable µpower Hex Translator/Rcvr./Driver* ***NEW!***	20-Dip	5.25	3.50	2.95
LTC1045CSW-ND	Programmable µpower Hex Translator/Receiver/Driver	20-SOIC	8.25	5.50	4.75
LTC1045CSW#PBF-ND	Programmable µpower Hex Translator/Rcvr./Driver* ***NEW!***	20-SOIC	8.25	5.50	4.75
LT1319CS-ND	Infrared Receiver Building Block	16-SOIC	7.25	4.83	3.95
LT1328CMS8-ND	4Mbps IrDA Infrared Receiver	8-MSOP	5.88	3.91	2.94
LTC1923EUH-ND	High Efficiency Thermoelectric Cooler Controller	32-QFN	39.30	28.07	23.12
LTC1923EUH#PBF-ND	High Efficiency Thermoelectric Cooler Controller* ***NEW!***	32-QFN	39.30	28.07	23.12
LTK001ACN8-ND	Thermocouple Compensated IC and Amp Kit (.5°C Error)	8-Dip	18.88	12.60	10.85
LTK001ACN8#PBF-ND	Thermocouple Compensated IC and Amp Kit (.5°C Error)* ***NEW!***	8-Dip	18.88	12.60	10.85
LTK001CN8-ND	Thermocouple Compensated IC and Amp Kit (2°C Error)	8-Dip	9.88	6.60	5.75
LTK001CN8#PBF-ND	Thermocouple Compensated IC and Amp Kit (2°C Error)* ***NEW!***	8-Dip	9.88	6.60	5.75
LTKA00CN8-ND	Thermocouple Amplifier (“0” Polarity)	8-Dip	5.63	3.75	3.15
LTKA01CN8-ND	Thermocouple Amplifier (“1” Polarity)	8-Dip	5.63	3.75	3.15

* ***RoHS Compliant***

SEMTECH *NEW!* CIRCUIT PROTECTION — *RoHS Compliant*

ESD/EMI Protection

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ECLAMP2342NCT-ND	ESD/EMI Protection for Color LCD Interfaces	16-QFN	1.30	.87	.73
ECLAMP2342NTR-ND	ESD/EMI Protection for Color LCD Interfaces	16-QFN	2106.000/3,000		
ECLAMP2357NCT-ND	EMI Filter and ESD Protection for Secure Digital Card Interface	16-QFN	1.30	.87	.73
ECLAMP2357NTR-ND	EMI Filter and ESD Protection for Secure Digital Card Interface	16-QFN	2106.00/3,000		

Surge Protection

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LC01-6CT-ND	Low Capacitance TVS for High Speed Telecommunication Systems	16-SOIC	6.88	4.57	3.85
LC01-6TR-ND	Low Capacitance TVS for High Speed Telecommunication Systems	16-SOIC	3713.00/1,000		
LC03-3.3CT-ND	Low Capacitance 3.3V TVS for High Speed Interfaces	8-SOIC	2.88	1.91	1.61
LC03-3.3TR-ND	Low Capacitance 3.3V TVS for High Speed Interfaces	8-SOIC	1553.00/1,000		
LC03-6CT-ND	Low Capacitance TVS for High Speed Data Interfaces	8-SOIC	2.50	1.66	1.40
LC03-6TR-ND	Low Capacitance TVS for High Speed Data Interfaces	8-SOIC	1350.00/1,000		
RCLAMP0504FCT-ND	Low Capacitance TVS Array	SC70-6	.80	.54	.45
RCLAMP0504FTR-ND	Low Capacitance TVS Array	SC70-6	1296.00/3,000		
RCLAMP0504MCT-ND	Low Capacitance TVS Diode Array	10-MSOP	1.45	.97	.82
RCLAMP0504MTR-ND	Low Capacitance TVS Diode Array	10-MSOP	391.50/500		
RCLAMP0504SCT-ND	Low Capacitance TVS Array	SOT-23-6	.58	.39	.33
RCLAMP0504STR-ND	Low Capacitance TVS Array	SOT-23-6	933.00/3,000		
RCLAMP0508MCT-ND	Low Capacitance TVS Diode Array	10-MSOP	2.13	1.42	1.19
RCLAMP0508MTR-ND	Low Capacitance TVS Diode Array	10-MSOP	574.00/500		
RCLAMP0514MCT-ND	Low Capacitance TVS Diode Array	10-MSOP	1.13	.75	.63
RCLAMP0514MTR-ND	Low Capacitance TVS Diode Array	10-MSOP	304.00/500		
SC804IMLCT-ND	Fully Integrated Lithium-Ion Battery Charger System with Timer	16-MLPQ	3.40	2.26	1.91
SC804IMLTR-ND	Fully Integrated Lithium-Ion Battery Charger System with Timer	16-MLPQ	5508.00/3,000		
SD05CT-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	.48	.32	.27
SD05TR-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	771.00/3,000		
SD05CCT-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	.50	.34	.28
SD05CTR-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	810.00/3,000		
SD24CCT-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	.48	.32	.27
SD24CTR-ND	Single Line TVS Diode for ESD Protection in Portable Electronics	SOD-323	771.00/3,000		
SDC15CT-ND	TVS Diode Array for ESD Protection of 12V Data and Power Lines	SOT-23	.53	.35	.30
SDC15TR-ND	TVS Diode Array for ESD Protection of 12V Data and Power Lines	SOT-23	852.00/3,000		
SLVU2.8-4CT-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	3.38	2.25	1.89
SLVU2.8-4TR-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	911.50/500		
SLVU2.8-8CT-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	4.13	2.74	2.31
SLVU2.8-8TR-ND	EPD TVS Diode Array for ESD and Latch-up Protection	8-SOIC	1114.00/500		
SM05CT-ND	TVS Diode Array	SOT-23	.58	.39	.33
SM05TR-ND	TVS Diode Array	SOT-23	933.00/3,000		
SM12CT-ND	TVS Diode Array	SOT-23	.58	.39	.33
SM12TR-ND	TVS Diode Array	SOT-23	933.00/3,000		
SM15CT-ND	TVS Diode Array	SOT-23	.58	.39	.33
SM15TR-ND	TVS Diode Array	SOT-23	933.00/3,000		
SM24CT-ND	TVS Diode Array	SOT-23	.68	.45	.38
SM24TR-ND	TVS Diode Array	SOT-23	1095.00/3,000		
SM36CT-ND	TVS Diode Array	SOT-23	.68	.45	.38
SM36TR-ND	TVS Diode Array	SOT-23	1095.00/3,000		
SM712CT-ND	Asymmetrical TVS Diode for Extended Common Mode RS-485	SOT-23	1.20	.80	.68
SM712TR-ND	Asymmetrical TVS Diode for Extended Common Mode RS-485	SOT-23	1944.00/3,000		
SMF05CCT-ND	TVS Diode Array for ESD and Latch-up Protection	SC70-6	.80	.54	.45
SMF05CTR-ND	TVS Diode Array for ESD and Latch-up Protection	SC70-6	1296.00/3,000		

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SMS05CCT-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	.98	.65	.55
SMS05CTR-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	1581.00/3,000		
SMS12CT-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	.93	.62	.52
SMS12TR-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	1500.00/3,000		
SMS12CCT-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	.93	.62	.52
SMS12CTR-ND	TVS Diode Array for ESD and Latch-up Protection	SOT-23-6	1500.00/3,000		
SR05CT-ND	Low Capacitance TVS Diode Array	SOT-143	1.50	1.00	.84
SR05TR-ND	Low Capacitance TVS Diode Array	SOT-143	2430.00/3,000		
SR12CT-ND	Low Capacitance TVS Diode Array	SOT-143	1.38	.92	.77
SR12TR-ND	Low Capacitance TVS Diode Array	SOT-143	2229.00/3,000		
SR3.3CT-ND	Low Capacitance TVS Diode Array	SOT-143	1.63	1.08	.91
SR3.3TR-ND	Low Capacitance TVS Diode Array	SOT-143	2634.00/3,000		
SR70CT-ND	Low Capacitance TVS Diode Array	SOT-143	1.13	.75	.63
SR70TR-ND	Low Capacitance TVS Diode Array	SOT-143	1824.00/3,000		
SRDA05-4CT-ND	Low Capacitance TVS Diode Array	8-SOIC	3.10	2.06	1.74
SRDA05-4TR-ND	Low Capacitance TVS Diode Array	8-SOIC	837.00/500		
SRDA3.3-4CT-ND	Low Capacitance TVS Diode Array	8-SOIC	3.10	2.06	1.74
SRDA3.3-4TR-ND	Low Capacitance TVS Diode Array	8-SOIC	837.00/500		
SRV05-4CT-ND	Low Capacitance TVS Diode Array	SOT-23-6	1.05	.70	.59
SRV05-4TR-ND	Low Capacitance TVS Diode Array	SOT-23-6	1701.00/3,000		
STF203-15CT-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	.88	.59	.49
STF203-15TR-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	1419.00/3,000		
STF203-22CT-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	.88	.59	.49
STF203-22TR-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	1419.00/3,000		
STF203-33CT-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	.88	.59	.49
STF203-33TR-ND	USB Upstream Port Filter and TVS for EMI Filtering and ESD Protection	SC70-6	1419.00/3,000		
STF701CT-ND	T-Filter with TVS Diode Array for EMI Filtering and ESD Protection	SC70-5	.78	.52	.44
STF701TR-ND	T-Filter with TVS Diode Array for EMI Filtering and ESD Protection	SC70-5	1257.00/3,000		
UCLAMP0501HCT-ND	1-Line ESD Protection	SOD-523	.58	.39	.33
UCLAMP0501HTR-ND	1-Line ESD Protection	SOD-523	933.00/3,000		
UCLAMP0506ACT-ND	5-Line ESD Protection Array	SC-89	.78	.52	.44
UCLAMP0506ATR-ND	5-Line ESD Protection Array	SC-89	1257.00/3,000		
UCLAMP3301DCT-ND	Low Voltage for ESD and CDE Protection	SOD-323	.45	.30	.26
UCLAMP3301DTR-ND	Low Voltage for ESD and CDE Protection	SOD-323	729.00/3,000		
UCLAMP3301HCT-ND	Low Voltage for ESD and CDE Protection	SOD-523	.60	.40	.34
UCLAMP3301HTR-ND	Low Voltage for ESD and CDE Protection	SOD-523	972.00/3,000		
UCLAMP3304ACT-ND	4-Line ESD Protection Array	SC89-6	.58	.39	.33
UCLAMP3304ATR-ND	4-Line ESD Protection Array	SC89-6	933.00/3,000		

SEMTECH *NEW!* POWER MANAGEMENT — *RoHS Compliant*

Charge Pump

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC1462ISKCT-ND	High Output Current Charge Pump Doubler	SOT-23-6	1.88	1.25	1.05
SC1462ISKTR-ND	High Output Current Charge Pump Doubler	SOT-23-6	3039.00/3,000		

Switching Regulator

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
SC1485ITSCT-ND	Dual Sync. Buck Pseudo Fixed Frequency Power Supply Controller	28-TSSOP	6.25	4.15	3.50
SC1485ITSTR-ND	Dual Sync. Buck Pseudo Fixed Frequency Power Supply Controller	28-TSSOP	8437.50/2,500		
SC190BIMLCT-ND	Sync. Buck Converter with Programmable Output	10-MLP	2.25	1.50	1.26
SC190BIMLTR-ND	Sync. Buck Converter with Programmable Output	10-MLP	3645.00/3,000		
SC190CIMLCT-ND	Sync. Buck Converter with Programmable Output	10-MLP	2.25	1.50	1.26
SC190CIMLTR-ND	Sync. Buck Converter with Programmable Output	10-MLP	3645.00/3,000		
SC2440TECT-ND	2.5MHz Dual Switching Regulator with Integrated 2A Switches	16-TSSOP	3.75	2.49	2.10
SC2440TETR-ND	2.5MHz Dual Switching Reg. with Integrated 2A Switches	16-TSSOP	5062.50/2,500		
SC2595MLCT-ND	Integrated Linear DDR Termination Regulator	16-MLPQ	2.45	1.63	1.38
SC2595MLTR-ND	Integrated Linear DDR Termination Regulator	16-MLPQ	3969.00/3,000		
SC4501MLCT-ND	2A, 2MHz Step-up Switching Regulator with Soft-Start	10-MLPD	2.13	1.42	1.19
SC4501MLTR-ND	2A, 2MHz Step-up Switching Regulator with Soft-Start	10-MLPD	3444.00/3,000		
SC4502HMLCT-ND	1.4A, 2MHz Step-up Switching Regulator with Soft-Start	10-MLPD	2.50	1.66	1.40
SC4502HMLTR-ND	1.4A, 2MHz Step-up Switching Regulator with Soft-Start	10-MLPD	4050.00/3,000		
SC4508AMLCT-ND	Buck or Buck Boost Current Mode Controller	12-MLPQ	2.38	1.58	1.33
SC4508AMLTR-ND	Buck or Buck Boost Current Mode Controller	12-MLPQ	3849.00/3,000		
SC4517AIMSCT-ND	1.25MHz, 1.5A Step-Down Switching Regulator	8-MSOP	2.25	1.50	1.26
SC4517AIMSTR-ND	1.25MHz, 1.5A Step-Down Switching Regulator	8-MSOP	3037.50/2,500		
SC4518HSECT-ND	600kHz, 2A Step-Down Switching Regulator	8-SOIC	2.38	1.58	1.33
SC4518HSETR-ND	600kHz, 2A Step-Down Switching Regulator	8-SOIC	3207.50/2,500		
SC4519HSECT-ND	600kHz, 3A Step-Down Switching Regulator	8-SOIC	2.50	1.66	1.40
SC4519HSETR-ND	600kHz, 3A Step-Down Switching Regulator	8-SOIC	3375.00/2,500		
SC470IMLCT-ND	Sync. Buck Controller for Dynamic Load-Voltage Applications	16-MLPQ	3.15	2.10	1.77
SC470IMLTR-ND	Sync. Buck Controller for Dynamic Load-Voltage Applications	16-MLPQ	5103.00/3,000		
SC470ITSCT-ND	Sync. Buck Controller for Dynamic Load-Voltage Applications	14-TSSOP	3.45	2.30	1.94
SC470ITSTR-ND	Sync. Buck Controller for Dynamic Load-Voltage Applications	14-TSSOP	4657.50/2,500		
SC2446ITECT-ND	Dual Phase Single or Two Output Sync. Step-Down Controller	28-TSSOP	5.63	3.74	3.15
SC2446ITETR-ND	Dual Phase Single or Two Output Sync. Step-Down Controller	28-TSSOP	7595.00/2,500		

(Continued)

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Linear Regulator

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
SC1563ISK1.8CT-ND	LDO Low Quiescent 500mA Regulator.	SOT-23-5	1.75	1.17	.98
SC1563ISK1.8TR-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	2835.00/3,000		
SC1563ISK2.5CT-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	1.75	1.17	.98
SC1563ISK2.5TR-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	2835.00/3,000		
SC1563ISK3.0CT-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	1.75	1.17	.98
SC1563ISK3.0TR-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	2835.00/3,000		
SC1563ISK3.3CT-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	1.75	1.17	.98
SC1563ISK3.3TR-ND	LDO Low Quiescent 500mA Regulator	SOT-23-5	2835.00/3,000		
SC1565I5M2.5CT-ND	LDO 1.5A Regulator with Enable	TO-263-5	3.38	2.25	1.89
SC1565I5M2.5TR-ND	LDO 1.5A Regulator with Enable	TO-263-5	1458.40/800		
SC1565IS-1.8CT-ND	LDO 1.5A Regulator with Enable	8-SOIC	2.00	1.33	1.12
SC1565IS-1.8TR-ND	LDO 1.5A Regulator with Enable	8-SOIC	2700.00/2,500		
SC1565IS-2.5CT-ND	LDO 1.5A Regulator with Enable	8-SOIC	2.00	1.33	1.12
SC1565IS-2.5TR-ND	LDO 1.5A Regulator with Enable	8-SOIC	2700.00/2,500		
SC1565IST18CT-ND	LDO 1.5A Regulator with Enable	SOT-223	2.00	1.33	1.12
SC1565IST18TR-ND	LDO 1.5A Regulator with Enable	SOT-223	2700.00/2,500		
SC1565IST25CT-ND	LDO 1.5A Regulator with Enable	SOT-223	2.00	1.33	1.12
SC1565IST25TR-ND	LDO 1.5A Regulator with Enable	SOT-223	2700.00/2,500		
SC1566I5M1.8CT-ND	LDO 3.0A Regulator with Enable	TO-263-5	3.38	2.25	1.89
SC1566I5M1.8TR-ND	LDO 3.0A Regulator with Enable	TO-263-5	1458.40/800		
SC1566I5M2.5CT-ND	LDO 3.0A Regulator with Enable	TO-263-5	3.38	2.25	1.89
SC1566I5M2.5TR-ND	LDO 3.0A Regulator with Enable	TO-263-5	1458.40/800		
SC1566IM-1.8CT-ND	LDO 3.0A Regulator with Enable	TO-263	3.38	2.25	1.89
SC1566IM-1.8TR-ND	LDO 3.0A Regulator with Enable	TO-263	1458.40/800		
SC1566IM-2.5CT-ND	LDO 3.0A Regulator with Enable	TO-263	3.38	2.25	1.89
SC1566IM-2.5TR-ND	LDO 3.0A Regulator with Enable	TO-263	1458.40/800		
SC4211SCT-ND	Low In/LDO 1A Regulator with Enable	8-SOIC	1.88	1.25	1.05
SC4211STR-ND	Low In/LDO 1A Regulator with Enable	8-SOIC	2532.50/2,500		
SC4215ASCT-ND	Low In/LDO 2A Regulator with Enable	8-SOIC	1.88	1.25	1.05
SC4215ASTR-ND	Low In/LDO 2A Regulator with Enable	8-SOIC	2532.50/2,500		
SC553ISKCT-ND	150mA Ultra LDO Regulator with Adj. Output	SOT-23-5	1.08	.72	.61
SC553ISKTR-ND	150mA Ultra LDO Regulator with Adj. Output	SOT-23-5	1743.00/3,000		
SC1592IMCT-ND	LDO High Performance Adjustable Positive Voltage Regulator	TO-263-7	3.13	2.08	1.75
SC1592IMTR-ND	LDO High Performance Adjustable Positive Voltage Regulator	TO-263-7	1350.40/800		

Special Function

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
SC310ASKCT-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	1.65	1.10	.93
SC310ASKTR-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	2673.00/3,000		
SC310BSKCT-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	1.65	1.10	.93
SC310BSKTR-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	2673.00/3,000		
SC310CSKCT-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	1.65	1.10	.93
SC310CSKTR-ND	High Side Current Sense Amp with Low Impedance Voltage Output	SOT-23-6	2673.00/3,000		
SC338AIMSCT-ND	Ultra Low Output Voltage Dual Linear FET Controller	10-MSOP	2.38	1.58	1.33
SC338AIMSTR-ND	Ultra Low Output Voltage Dual Linear FET Controller	10-MSOP	3207.50/2,500		

References

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
SC431CSK-.5CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.75	.50	.42
SC431CSK-.5TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1215.00/3,000		
SC431CSK-1CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.75	.50	.42
SC431CSK-1TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1215.00/3,000		
SC431CSK-2CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	.75	.50	.42
SC431CSK-2TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1215.00/3,000		
SC431LCSK-0.5CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1.13	.75	.63
SC431LCSK-0.5TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1824.00/3,000		
SC431LCSK-1CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1.13	.75	.63
SC431LCSK-1TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1824.00/3,000		
SC431LCSK-25CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1.00	.67	.56
SC431LCSK-25TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1620.00/3,000		
SC431LISK-.5CT-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1.13	.75	.63
SC431LISK-.5TR-ND	Low Voltage Adjustable Shunt Regulator	SOT-23	1824.00/3,000		
SC1453ISK1.5CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	.98	.65	.55
SC1453ISK1.5TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1581.00/3,000		
SC1453ISK18CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	.98	.65	.55
SC1453ISK18TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1581.00/3,000		
SC1453ISK2.5CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	.98	.65	.55
SC1453ISK2.5TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1581.00/3,000		
SC1453ISK3.3CT-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	.98	.65	.55
SC1453ISK3.3TR-ND	150mA Ultra LDO Regulator with Low Noise Bypass	SOT-23-5	1581.00/3,000		
SC192IMLCT-ND	2.7V to 5.5V Input Sync. Buck Converter with Integrated Power Devices	10-MLPD	3.38	2.25	1.89
SC192IMLTR-ND	2.7V to 5.5V Input Sync. Buck Converter with Integrated Power Devices	10-MLPD	5469.00/3,000		
SC2544MLCT-ND	High Performance Wide Input Range Dual Sync. Buck Controller	24-MLPQ	5.00	3.32	2.80
SC2544MLTR-ND	High Performance Wide Input Range Dual Sync. Buck Controller	24-MLPQ	6750.00/2,500		
SC2544TSCT-ND	High Performance Wide Input Range Dual Sync. Buck Controller	24-TSSOP	5.25	3.49	2.94
SC2544TSTR-ND	High Performance Wide Input Range Dual Sync. Buck Controller	24-TSSOP	7087.50/2,500		

LED Driver

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
SC600BIMLCT-ND	LED Driver with 5.0V, 4.5V, or 4.0V Output	10-MLP	2.50	1.66	1.40
SC600BIMLTR-ND	LED Driver with 5.0V, 4.5V, or 4.0V Output	10-MLP	4050.00/3,000		

Battery Chargers

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
SC805IMLCT-ND	Minature IC High Current Lithium-Ion	10-MLP	2.63	1.75	1.47
SC805IMLTR-ND	Minature IC High Current Lithium-Ion	10-MLP	4254.00/3,000		
SC806IMLCT-ND	Minature High Current Lithium-Ion	10-MLP	2.38	1.58	1.33
SC806IMLTR-ND	Minature High Current Lithium-Ion	10-MLP	3849.00/3,000		

Hot Swap Controllers

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
SC4250LISCT-ND	Negative Voltage	8-SOIC	1.75	1.17	.98
SC4250LISTR-ND	Negative Voltage	8-SOIC	2362.50/2,500		

Panasonic ANALOG ICs

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AN1101SSMTXLCT-ND	2.5V to 5.5V CMOS Single Power Supply	SSMINI-5	1.23	1.03	.82
AN1101SSMTXLTR-ND	2.5V to 5.5V CMOS Single Power Supply	SSMINI-5	1596.00/3,000		
AN1201SMTXLCT-ND	Polarity Inverting Charge Pump DC/DC Converter	SMINI-5	1.36	1.09	.82
AN1201SMTXLTR-ND	Polarity Inverting Charge Pump DC/DC Converter	SMINI-5	2094.00/3,000		
AN1281SSMTXLCT-ND	Ripple Filter	SSMINI-5	1.36	1.09	.82
AN1281SSMTXLTR-ND	Ripple Filter	SSMINI-5	2094.00/3,000		
AN6123MSTXLCT-ND	Speech Network with ALC	MINI-5	1.07	.89	.71
AN6123MSTXLTR-ND	Speech Network with ALC	MINI-5	1386.00/3,000		
AN8001FHKV-ND	Gradation Voltage Generation for Liquid Crystal Display	TQFP048	3.68	2.95	2.30
AN8495SBE1VCT-ND	Stepping Motor Drive	HSOP042	4.61	3.69	2.87
AN8495SBE1VTR-ND	Stepping Motor Drive	HSOP042	2610.00/1,000		
AN8955SSMTXLCT-ND	13MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8955SSMTXLTR-ND	13MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		
AN8956SSMTXLCT-ND	26MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8956SSMTXLTR-ND	26MHz, 2.3V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		
AN8957SSMTXLCT-ND	19MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8957SSMTXLTR-ND	19MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		
AN8958SSMTXLCT-ND	26MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	.82	.69	.55
AN8958SSMTXLTR-ND	26MHz, 2.6V to 5.5V Crystal Oscillator IC	SSMINI-5	1065.00/3,000		

Panasonic AUDIO/VIDEO ICs

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AN2906FJMEBVCT-ND	Audio In/Out Amplifier	QUAD-44	3.69	2.95	2.30
AN2906FJMEBVTR-ND	Audio In/Out Amplifier	QUAD-44	4178.00/2,000		
AN5272-ND	4W, 2-Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5273-ND	4W, 2-Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5274-ND	4W, 2-Channel Audio Amp with Fin	SIL-12	2.40	1.92	1.44
AN5275-ND	15W, Dual Audio Amp with Fin	SIL-12	2.88	2.31	1.80
AN5276-ND	5W, 2-Channel Audio Amp with Fin	SIL-12	2.24	1.80	1.35
AN5277-ND	10W, 2-Channel Audio Amp with Fin	SIL-12	2.30	1.85	1.44
AN5278-ND	4.8W, 1-Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN5279-ND	5W, 1-Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN5870K-ND	Analog Switch with Amp and 75-Ohm Driver for Display	DIL-30	5.04	4.04	3.14
AN7125-ND	10W, 2-Channel Audio Amp with Fin	SIL-12	3.46	2.77	2.16
AN7510-ND	1W, 2-Channel Audio Amp with Fin	16-Dip	1.60	1.28	.96
AN7511-ND	1W, 1-Channel Audio Amp with Fin	8-Dip	1.15	.96	.77
AN7512-ND	1W, 2-Channel Audio Amp with Fin	16-Dip	1.92	1.54	1.16
AN7513-ND	1W, 1-Channel Audio Amp	8-Dip	1.28	1.03	.77
AN7522N-ND	5W, 2-Channel Audio Amp with Fin	SIL-12	2.30	1.85	1.44
AN7523N-ND	4W, 1-Channel Audio Amp with Fin	SIL-9	1.60	1.28	.96
AN7586-ND	10W, 1-Channel Audio Amp with Fin	SIL-7	1.92	1.54	1.16
AN15851ACT-ND	4-Input AV Switch with RGB-YUV	36-USO	3.49	2.80	2.18
AN15851ATR-ND	4-Input AV Switch with RGB-YUV	36-USO	1977.00/1,000		
AN15852A-VT-ND	AV Switch with I2C Interface	QFH-80	7.48	5.99	5.06
AN15853BCT-ND	4-Input AV Switch for Color TV	36-USO	2.53	2.03	1.58
AN15853BTR-ND	4-Input AV Switch for Color TV	36-USO	1433.00/1,000		
AN17000ABFCT-ND	Audio Amplifier for Notebook	56-SOIC	3.46	2.77	2.16
AN17000ABFTR-ND	Audio Amplifier for Notebook	56-SOIC	5805.00/3,000		
AN17020AVBCT-ND	Audio Amplifier for Headphone	QUAD-16-SOIC	1.98	1.59	1.20
AN17020AVBTR-ND	Audio Amplifier for Headphone	QUAD-16-SOIC	2064.00/2,000		
AN17880AE1CT-ND	Audio Amplifier for Headphone	16-SOIC	1.71	1.37	1.03
AN17880AE1TR-ND	Audio Amplifier for Headphone	16-SOIC	1774.00/2,000		

Panasonic DC/DC CONVERTER ICs

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AN8011SE1VCT-ND	2-Channel DC/DC Converter	16-SOIC	1.70	1.36	1.02
AN8011SE1VTR-ND	2-Channel DC/DC Converter	16-SOIC	1764.00/2,000		
AN8013SHE1CT-ND	1-Channel DC/DC Converter	SSONF-10D	1.33	1.07	.81
AN8013SHE1TR-ND	1-Channel DC/DC Converter	SSONF-10D	1388.00/2,000		
AN8014SE1CT-ND	1-Channel DC/DC Converter	16-SOIC	1.56	1.25	.94
AN8014SE1TR-ND	1-Channel DC/DC Converter	16-SOIC	1620.00/2,000		
AN8015SHE1CT-ND	1-Channel DC/DC Converter	SSONF-10D	1.33	1.07	.81
AN8015SHE1TR-ND	1-Channel DC/DC Converter	SSONF-10D	1388.00/2,000		
AN8017SAE1CT-ND	2-Channel DC/DC Converter	SSONF-16D	1.87	1.50	1.12
AN8017SAE1TR-ND	2-Channel DC/DC Converter	SSONF-16D	1940.00/2,000		
AN8018SAE1VCT-ND	2-Channel DC/DC Converter	SSONF-16D	1.87	1.50	1.12
AN8018SAE1VTR-ND	2-Channel DC/DC Converter	SSONF-16D	1940.00/2,000		
AN8049FHNEBCT-ND	3-Channel DC/DC Converter	QFN-24	3.01	2.41	1.88
AN8049FHNEBTR-ND	3-Channel DC/DC Converter	QFN-24	3408.00/2,000		
AN8049SHE1CT-ND	3-Channel DC/DC Converter	SSOP-24D	2.30	1.85	1.44
AN8049SHE1TR-ND	3-Channel DC/DC Converter	SSOP-24D	1306.00/1,000		

Panasonic VOLTAGE REGULATORS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AN78L05-ND	5V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L06-ND	6V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L07-ND	7V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L09-ND	9V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L10-ND	10V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30

(Continued)

★ *CALL FOR LOWER PRICING ON LARGER QUANTITIES!* ★

JRC
NJR CORPORATION

The Analog IC Solution Company

Wireless LAN DPDT GaAS MMIC Switches

IEEE802.11 a/b/g GaAs MMIC Switches

Features:
- Low Voltage Operation
- Low Current Consumption
- Low Insertion Loss
- High Isolation
- Ultra Small and Ultra Thin Package

Application:
- Wireless LAN

NJG1544HC3 Pin Configuration

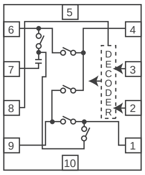

1. ANT1
2. CTL1
3. CTL2
4. ANT2
5. GND
6. TX
7. GND
8. VDD
9. RX
10. GND

NJR Part No.	Function	Application
NJG1544HC3	2x2 Antenna Switch	IEEE802.11 b/g
NJG1617K11	DPDT Switch	IEEE802.11 a/b/g
NJG1617HE3	DPDT Switch	IEEE802.11 a/b/g

Switching Regulator

NJU7600 is a high speed low voltage operation switching regulator control IC. It features a totem pole driver that can directly drive an external MOS-FET. Internal soft-start function, dead time control and timer latch function are included, requiring no external components. All parameters can be optimized by additional external components for design flexibility.

Features:
- 2.2V to 8V Operating Voltage
- 800μA (typical) Consumption Current
- High Efficiency n=80 to 90%
- Switching Frequency 300kHz to 1MHz
- Evaluation Board Available

Applications:
- All Mobile Products
- LCD Power Modules

Boost Application
($V+=3.3V$, $V_{OUT}=9V$, $I_{OUT}=150mA$ (typ.))

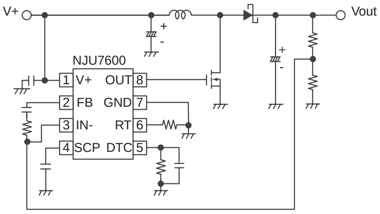

NJR Part No.	Package
NJU7600M	8-DMP
NJU7600RB1	8-TVSP

High Efficiency White LED Driver

Features:
- Drives up to 4 White LEDs in Series I_{OUT} = 20mA (typical)
- Uses small inductor and capacitors
- 1.7V to 6.5V Operating Voltage for Step-Up Circuits
- Low switch Rds (ON)
- Over Voltage Protection
- SOT-23-5 Package

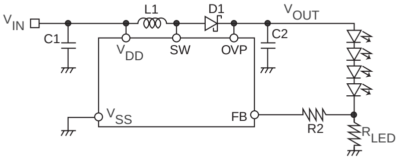

Digi-Key Part No.	Description
NJU6048F-TE1CT-ND	White LED Driver

Audio Limiter

The NJM2761 is the audio limiter for speaker protection. The limit level is adjustable by external resistor. It is suitable for PC, portable audio and others.

Features:
- 2.7V to 13V Operating Voltage
- Limit Level 0.2 to 1Vrms
- Output Noise -90dBV
- Bipolar Technology
- TVSP10 Package

Applications:
- LCD Monitor
- Notebook PC
- DVD Player
- Small Speaker System

Function:
- Audio Limiter for speaker protection

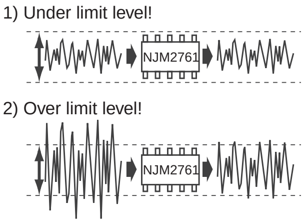

Optimize the Signal level and keep the wave shape

Low Dropout Regulators

Features:
• Maximum Output Current: 800mA • Low Dropout Voltage: 0.18V (typical) • High Precision Output: ±1.0% • High Ripple Rejection: 75dB (typical) • Low Noise Voltage: 45μVrms • Low Quiescent Current: 200μA

Applications:
• DVD Player • Car Audio • TV • Printer

Comparison NJM2845/46 vs. xx1117

	NJM2845/46	xx1117
Dropout Voltage	0.18V (typ.)	1.1V (typ.)
Quiescent Current	200μA	5mA
Output Capacitor	2.2μF Ceramic	10μF Tantalum
Output Voltage Range	1.8V to 5.0V	1.2V to 5.0V and Adj.

NJR Part No.	Voltage	Package
NJM2845DL1-18	1.8	TO252-3
NJM2845DL1-23	2.3	TO252-3
NJM2845DL1-25	2.5	TO252-3
NJM2845DL1-03	3.0	TO252-3
NJM2845DL1-33	3.3	TO252-3
NJM2845DL1-05	5.0	TO252-3
NJM2846DL2-18	1.8	TO252-5
NJM2846DL2-23	2.3	TO252-5
NJM2846DL2-25	2.5	TO252-5
NJM2846DL2-03	3.0	TO252-5
NJM2846DL2-33	3.3	TO252-5
NJM2846DL2-05	5.0	TO252-5

Class-D Amplifiers for Digital Audio

The NJU8721 and the NJU8725 provide the complete digital solution including digital audio data I/F, 8fs over sampling digital filter, and the 6th ΔΣmodulator. They convert serial digital source such as world's standard I²S format into 1 bit PWM signal, and end up with converting into analog signal via external filters.

Applications:
• Hand held components • MP3 Players • PDAs

Typical Performance of NJU8721V

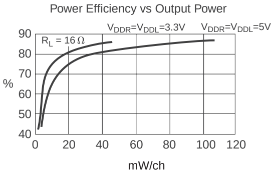

Digi-Key Part No.	Description	Package
NJU8721V-TE1CT-ND	Stereo Headphone Amp	20-SSOP
NJU8725V-TE1CT-ND	Class-D Power Amp	24-SSOP

For information on new NJR products, as well as datasheets, please visit http://www.njr.com

Panasonic VOLTAGE REGULATORS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN78L15-ND	15V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L18-ND	18V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L20-ND	20V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN78L24-ND	24V, 100mA, Positive General Purpose Voltage Regulator	TO-92	.53	.40	.30
AN79L04-ND	4V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L06-ND	6V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L07-ND	7V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L08-ND	8V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L09-ND	9V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L10-ND	10V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L12-ND	12V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L15-ND	15V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L20-ND	20V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN79L24-ND	24V, 100mA, Negative General Purpose Voltage Regulator	TO-92	.52	.39	.30
AN78L04M-ND	4V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L04ME1TR-ND	4V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L05M-ND	5V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L06M-ND	6V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L07M-ND	7V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L07ME1TR-ND	7V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L08ME1TR-ND	8V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L09M-ND	9V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L09ME1TR-ND	9V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L10ME1TR-ND	10V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L12M-ND	12V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L12ME1TR-ND	12V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L15M-ND	15V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN78L15ME1TR-ND	15V, 100mA, Positive General Purpose Voltage Regulator	TO-243	177.00/1,000		
AN78L18M-ND	18V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.50	.38	.28
AN78L18ME1TR-ND	18V, 100mA, Positive General Purpose Voltage Regulator	TO-243	165.00/1,000		
AN78L20M-ND	20V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.50	.38	.28
AN78L20ME1TR-ND	20V, 100mA, Positive General Purpose Voltage Regulator	TO-243	165.00/1,000		
AN78L24M-ND	24V, 100mA, Positive General Purpose Voltage Regulator	TO-243	.53	.40	.30
AN79L04M-ND	4V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L04ME1TR-ND	4V, 100mA, Negative General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L05M-ND	5V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.52	.39	.30
AN79L08ME1TR-ND	8V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L09ME1TR-ND	9V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L10M-ND	10V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.52	.39	.30
AN79L10ME1TR-ND	10V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L15M-ND	15V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.52	.39	.30
AN79L15ME1TR-ND	15V, 100mA, Negative General Purpose Voltage Regulator	TO-243	172.00/1,000		
AN79L18M-ND	18V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L18ME1TR-ND	18V, 100mA, Negative General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L20M-ND	20V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L20ME1TR-ND	20V, 100mA, Negative General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN79L24M-ND	24V, 100mA, Negative General Purpose Voltage Regulator	TO-243	.48	.36	.27
AN79L24ME1TR-ND	24V, 100mA, Negative General Purpose Voltage Regulator	TO-243	160.00/1,000		
AN78M05NSP-ND	5V, 0.5A, Positive Output Voltage Regulator	SP3SU	1.07	.89	.72
AN78M05NSPE1TR-ND	5V, 0.5A, Positive Output Voltage Regulator	SP3SU	1389.00/3,000		
AN78M08NSP-ND	8V, 0.5A, Positive Output Voltage Regulator	SP3SU	1.07	.89	.72
AN78M08NSPE1TR-ND	8V, 0.5A, Positive Output Voltage Regulator	SP3SU	1389.00/3,000		
AN77L03-ND	3V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L035-ND	3.5V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L04-ND	4V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L045-ND	4.5V, 100mA, Positive LDO Voltage Regulator	TO-92	1.37	1.14	.92
AN77L05-ND	5V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L06-ND	6V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L07-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L08-ND	8V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L09-ND	9V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L10-ND	10V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77L12-ND	12V, 100mA, Positive LDO Voltage Regulator	TO-92	1.47	1.23	.98
AN77035SP-ND	3.5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN77035SPE1TR-ND	3.5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7705SP-ND	5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7705SPE1TR-ND	5V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7706SP-ND	6V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7706SPE1TR-ND	6V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7707SP-ND	7V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7707SPE1TR-ND	7V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7708SP-ND	8V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7708SPE1TR-ND	8V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7709SP-ND	9V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7709SPE1TR-ND	9V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7710SP-ND	10V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7710SPE1TR-ND	10V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7712SP-ND	12V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7712SPE1TR-ND	12V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN7715SP-ND	15V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	2.30	1.85	1.44
AN7715SPE1TR-ND	15V, 1.2A, Positive Low Power Loss Voltage Regulator	SP3SU	3870.00/3,000		
AN77L03M-ND	3V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L03ME1TR-ND	3V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L035M-ND	3.5V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L035ME1TR-ND	3.5V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L04M-ND	4V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L04ME1TR-ND	4V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L045M-ND	4.5V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L045ME1TR-ND	4.5V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L05M-ND	5V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L05ME1TR-ND	5V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L06M-ND	6V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L06ME1TR-ND	6V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L07M-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L07ME1TR-ND	7V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L08M-ND	8V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L08ME1TR-ND	8V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L09M-ND	9V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L09ME1TR-ND	9V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L10M-ND	10V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L10ME1TR-ND	10V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		
AN77L12M-ND	12V, 100mA, Positive LDO Voltage Regulator	TO-243	1.47	1.23	.98
AN77L12ME1TR-ND	12V, 100mA, Positive LDO Voltage Regulator	TO-243	650.00/1,000		

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AN8002-ND	2V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8003-ND	3V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8004-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8045-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8005-ND	5V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8006-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8007-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8008-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8085-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-92	.90	.75	.60
AN8010-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-92	.96	.81	.65
AN8002M-ND	2V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8002M-E1TR-ND	2V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8025M-ND	2.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8025M-E1TR-ND	2.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8003M-E1TR-ND	3V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8004M-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8004M-E1TR-ND	4V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8045M-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8045M-E1TR-ND	4.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8005M-ND	5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8005M-E1TR-ND	5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8006M-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8006M-E1TR-ND	6V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8007M-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8007M-E1TR-ND	7V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8008M-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8008M-E1TR-ND	8V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8085M-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8085M-E1TR-ND	8.5V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8009M-ND	9V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8009M-E1TR-ND	9V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN8010M-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-243	1.06	.88	.71
AN8010M-E1TR-ND	10V, 50mA, Positive LDO Voltage Regulator	TO-243	468.00/1,000		
AN80L19RMS-ND	1.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L20RMS-ND	2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L20RMSTXTR-ND	2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L21RMS-ND	2.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L21RMSTXTR-ND	2.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L22RMS-ND	2.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L22RMSTXTR-ND	2.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L25RMS-ND	2.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L25RMSTXTR-ND	2.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L28RMS-ND	2.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L28RMSTXTR-ND	2.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L29RMS-ND	2.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L29RMSTXTR-ND	2.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L30RMS-ND	3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L30RMSTXTR-ND	3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L31RMS-ND	3.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L31RMSTXTR-ND	3.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L32RMS-ND	3.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L32RMSTXTR-ND	3.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L33RMSTXTR-ND	3.3V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L34RMS-ND	3.4V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L34RMSTXTR-ND	3.4V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L35RMS-ND	3.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L35RMSTXTR-ND	3.5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L36RMS-ND	3.6V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L36RMSTXTR-ND	3.6V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L48RMS-ND	4.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L48RMSTXTR-ND	4.8V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L49RMS-ND	4.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L49RMSTXTR-ND	4.9V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L50RMS-ND	5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L50RMSTXTR-ND	5V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L51RMS-ND	5.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L51RMSTXTR-ND	5.1V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80L52RMS-ND	5.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1.47	1.23	.98
AN80L52RMSTXTR-ND	5.2V, 150mA, with Reset, Positive LDO Voltage Regulator	MINI5D	1908.00/3,000		
AN80M27RSP-ND	2.7V, 500mA, with On-Off, Low Power Loss, Positive Voltage Regulator	SP5SU	2.33	1.87	1.40
AN80M27RSPTXTR-ND	2.7V, 500mA, with On-Off, Low Power Loss, Positive Voltage Regulator	SP5SU	3579.00/3,000		
AN1431M-ND	2.5-36V, Positive Variable Output Shunt Regulator	TO-243	.87	.73	.58
AN1431M-E1TR-ND	2.5-36V, Positive Variable Output Shunt Regulator	TO-243	386.00/1,000		
AN1431T-ND	2.5-36V, Positive Variable Output Shunt Regulator	TO-92	.87	.73	.58
AN1433SSMTXLCT-ND	7-14V, Positive, Variable Output Shunt Regulator	SSMINI5D	1.07	.90	.72
AN1433SSMTXLTR-ND	7-14V, Positive, Variable Output Shunt Regulator	SSMINI5D	1395.00/3,000		

JRC / NJR Corporation AMPLIFIERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJG1101F-TE1CT-ND	Wideband AGC Amp, GaAs MMIC	6-MTP	2.31	1.93	1.54
NJG1101F-TE1TR-ND	Wideband AGC Amp, GaAs MMIC	6-MTP	4042.50/3,000		
NJG1103F1-TE1CT-ND	1.5/1.9GHz Low Noise Amp, GaAs MMIC	6-MTP	.93	.78	.62
NJG1103F1-TE1TR-ND	1.5/1.9GHz Low Noise Amp, GaAs MMIC	6-MTP	1627.50/3,000		
NJG1105F-TE1CT-ND	1.8/1.9/2.1GHz Band Low Noise Amp, GaAs MMIC	6-MTP	2.73	2.28	1.82
NJG1105F-TE1TR-ND	1.8/1.9/2.1GHz Band Low Noise Amp, GaAs MMIC	6-MTP	4777.50/3,000		
NJG1302V-TE1CT-ND	Medium Power Amp, GaAs MMIC	14-SSOP	6.30	5.25	4.20
NJG1302V-TE1TR-ND	Medium Power Amp, GaAs MMIC	14-SSOP	7350.00/2,000		
NJG1307R-TE1CT-ND	Driver Amp, GaAs MMIC	8-VSP	2.94	2.45	1.96
NJG1307R-TE1TR-ND	Driver Amp, GaAs MMIC	8-VSP	3430.00/2,000		
NJM064D-ND	J-Fet Input Op Amp	14-Dip	.93	.78	.62
NJM072D-ND	Dual J-Fet Input Op Amp	8-Dip	.45	.38	.30
NJM#072D-ND	Dual J-Fet Input Op Amp*	8-Dip	.45	.38	.30
NJM072M-ND	Dual J-Fet Input Op Amp	8-DMP	.54	.45	.36
NJM074D-ND	Quad J-Fet Input Op Amp	14-Dip	1.05	.88	.70
NJM074M-ND	Quad J-Fet Input Op Amp	14-DMP	1.05	.88	.70
NJM082D-ND	Dual J-Fet Input Op Amp	8-Dip	.48	.40	.32
NJM082M-ND	Dual J-Fet Input Op Amp	8-DMP	1.02	.85	.68
NJM084D-ND	Quad J-Fet Input Op Amp	14-Dip	1.17	.98	.78
NJM318D-ND	High Speed Op Amp	8-Dip	.54	.45	.36

*** RoHS Compliant**

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM319D-ND	Precision, High Speed, Dual Voltage Comparator	14-Dip	1.05	.88	.70
NJM#319M-ND	Precision, High Speed, Dual Voltage Comparator*	14-DMP	1.08	.90	.72
NJM592D-ND	Video Amplifier	14-Dip	.60	.50	.40
NJM592D8-ND	Video Amplifier	8-Dip	.39	.33	.26
NJM2059D-ND	Quad Op Amp	14-Dip	.72	.60	.48
NJM2060D-ND	High-Gain, Wide-Bandwidth, Quad Op Amp	14-Dip	.60	.50	.40
NJM2060M-ND	High-Gain, Wide-Bandwidth, Quad Op Amp	14-DMP	.63	.53	.42
NJM2068D-ND	Low-Noise Dual Op Amp	8-Dip	.39	.33	.26
NJM#2068D-ND	Low-Noise Dual Op Amp*	8-Dip	.39	.33	.26
NJM#2068M-ND	Low-Noise Dual Op Amp*	8-DMP	.45	.38	.30
NJM2070D-ND	Low Voltage Power Amp	8-Dip	.84	.70	.56
NJM#2073D-ND	Dual Low Voltage Power Amp*	8-Dip	.87	.73	.58
NJM#2073M-ND	Dual Low Voltage Power Amp*	8-DMP	.87	.73	.58
NJM2076D-ND	Dual Low Voltage Power Amp	8-Dip	1.38	1.15	.92
NJM2076M-ND	Dual Low Voltage Power Amp	8-DMP	1.38	1.15	.92
NJM#2082D-ND	Dual J-Fet Input Op Amp*	8-Dip	.57	.48	.38
NJM2082M-ND	Dual J-Fet Input Op Amp	8-DMP	.51	.43	.34
NJM#2100D-ND	Dual Op Amp*	8-Dip	.60	.50	.40
NJM2113D-ND	Low Voltage Audio Power Amp	8-Dip	.66	.55	.44
NJM#2113M-ND	Low Voltage Audio Power Amp*	8-DMP	.54	.45	.36
NJM#2119M-ND	Dual Single Supply Op Amp*	8-DMP	1.17	.98	.78
NJM2120M-ND	Op Amp, 2-Input/1-Output Analog Switch	8-DMP	.66	.55	.44
NJM2121D-ND	Dual Op Amp, 2-Input/1-Output Analog Switch	8-Dip	.54	.45	.36
NJM2121M-ND	Dual Op Amp, 2-Input/1-Output Analog Switch	8-DMP	.54	.45	.36
NJM2122D-ND	Ultra Low Noise Dual Op Amp	8-Dip	1.17	.98	.78
NJM2122M-ND	Ultra Low Noise Dual Op Amp	8-DMP	1.08	.90	.72
NJM#2125F-TE1CT-ND	Single Supply Op Amp*	5-MTP	.63	.53	.42
NJM#2125F-TE1TR-ND	Single Supply Op Amp*	5-MTP	1102.50/3,000		
NJM2132D-ND	Single Supply Low Power Dual Op Amp	8-Dip	.60	.50	.40
NJM2132M-ND	Single Supply Low Power Dual Op Amp	8-DMP	.60	.50	.40
NJM2135D-ND	Low Voltage Audio Power Amp	8-Dip	.63	.53	.42
NJM2135M-ND	Low Voltage Audio Power Amp	8-DMP	.48	.40	.32
NJM2135M-TE2CT-ND	Low Voltage Audio Power Amp	8-DMP	.63	.53	.42
NJM2135M-TE2TR-ND	Low Voltage Audio Power Amp	8-DMP	735.00/2,000		
NJM2136M-ND	Ultra Wideband, High Slew Rate, Single Op Amp	8-DMP	1.50	1.25	1.00
NJM2137M-ND	Ultra Wideband, High Slew Rate, Dual Op Amp	8-DMP	1.26	1.05	.84
NJM2138M-ND	Ultra Wideband, High Slew Rate, Quad Op Amp	14-DMP	2.52	2.10	1.68
NJM#2140R-TE1CT-ND	Low Saturation Dual Op Amp*	8-VSP	.63	.53	.42
NJM#2140R-TE1TR-ND	Low Saturation Dual Op Amp*	8-VSP	735.00/2,000		
NJM#2143R-TE1CT-ND	Single Supply Dual Op Amp*	8-VSP	.45	.38	.30
NJM#2143R-TE1TR-ND	Single Supply Dual Op Amp*	8-VSP	560.00/2,000		
NJM2149D-ND	Low Voltage Audio Power Amp	8-Dip	.87	.73	.58
NJM#2149M-ND	Low Voltage Audio Power Amp*	8-DMP	.90	.75	.60
NJM2171AR-TE1CT-ND	Low Voltage Headphone Amp for Portable Audio	10-VSP	.90	.75	.60
NJM2171AR-TE1TR-ND	Low Voltage Headphone Amp for Portable Audio	10-VSP	1050.00/2,000		
NJM#2172V-TE1CT-ND	Op Amp with Electric Variable Resistor*	14-SSOP	1.86	1.55	1.24
NJM#2172V-TE1TR-ND	Op Amp with Electric Variable Resistor*	14-SSOP	2206.00/2,000		
NJM2174V-TE2CT-ND	Audio Line Amp with Mute Function	14-SSOP	1.47	1.23	.98
NJM2174V-TE2TR-ND	Audio Line Amp with Mute Function	14-SSOP	1715.00/2,000		
NJM2204AD-ND	Integrated IF Limiting Amp	16-Dip	2.52	2.10	1.68
NJM2267D-ND	Dual Video 6dB Amp with 75-Ohm Driver	8-Dip	.69	.58	.46
NJM#2267M-ND	Dual Video 6dB Amp with 75-Ohm Driver*	8-DMP	.63	.53	.42
NJM2268D-ND	Dual Video 6dB Amplifier	8-Dip	.93	.78	.62
NJM2268M-ND	Dual Video 6dB Amplifier	8-DMP	.57	.48	.38
NJM2274R-TE1CT-ND	Low Power Video Amp with Y-C Mixer	8-VSP	1.47	1.23	.98
NJM2274R-TE1TR-ND	Low Power Video Amp with Y-C Mixer	8-VSP	1715.00/2,000		
NJM2403D-ND	Single Supply Dual Comparator	8-Dip	.54	.45	.36
NJM#2406F-TE1CT-ND	Single Comparator*	5-MTP	.42	.35	.28
NJM#2406F-TE1TR-ND	Single Comparator*	5-MTP	735.00/3,000		
NJM#2407R-TE1CT-ND	Single Supply Dual Comparator*	8-VSP	.45	.38	.30
NJM#2407R-TE1TR-ND	Single Supply Dual Comparator*	8-VSP	560.00/2,000		
NJM2538V-TE1CT-ND	Video Amp with 75-Ohm Driver	20-SSOP	2.94	2.45	1.96
NJM2538V-TE1TR-ND	Video Amp with 75-Ohm Driver	20-SSOP	3430.00/2,000		
NJM#2574RB1-TE1CT-ND	Low Voltage Video Amp with LPF*	8-TVSP	.99	.83	.66
NJM#2574RB1-TE1TR-ND	Low Voltage Video Amp with LPF*	8-TVSP	1156.00/2,000		
NJM#2575F1-TE1CT-ND	Low Voltage Video Amp with LPF*	6-MTP	.84	.70	.56
NJM#2575F1-TE1TR-ND	Low Voltage Video Amp with LPF*	6-MTP	1524.00/3,000		
NJM#2576RB1-TE1CT-ND	Low Voltage Video Amp with LPF*	8-TVSP	1.17	.98	.78
NJM#2576RB1-TE1TR-ND	Low Voltage Video Amp with LPF*	8-TVSP	1400.00/2,000		
NJM2580D-ND	Single Supply Wideband 3-Channel Video Amp	14-Dip	2.52	2.10	1.68
NJM2580M-ND	Single Supply Wideband 3-Channel Video Amp	14-DMP	2.10	1.75	1.40
NJM2710V-TE1CT-ND	Ultra High Speed Hex Op Amp	20-SSOP	2.43	2.03	1.62
NJM2710V-TE1TR-ND	Ultra High Speed Hex Op Amp	20-SSOP	2835.00/2,000		
NJM#2711F-TE1CT-ND	Ultra High Speed Single Op Amp*	5-MTP	2.43	2.03	1.62
NJM#2711F-TE1TR-ND	Ultra High Speed Single Op Amp*	5-MTP	4359.00/3,000		
NJM2716F-TE1CT-ND	Single Supply High-Slew Rate Single Op Amp	5-MTP	1.26	1.05	.84
NJM2716F-TE1TR-ND	Single Supply High-Slew Rate Single Op Amp	5-MTP	2205.00/3,000		
NJM#2730F-TE1CT-ND	Low Supply Voltage Single Op Amp*	5-MTP	.84	.70	.56
NJM#2730F-TE1TR-ND	Low Supply Voltage Single Op Amp*	5-MTP	1524.00/3,000		
NJM2732M-ND	Full-Swing Input and Output Type Dual Op Amp	8-DMP	2.10	1.75	1.40
NJM#2732RB1-TE1CT-ND	Full-Swing Input and Output Type Dual Op Amp*	8-TVSP	2.10	1.75	1.40
NJM#2732RB1-TE1TR-ND	Full-Swing Input and Output Type Dual Op Amp*	8-TVSP	2486.00/2,000		
NJM2737D-ND	Low Noise, Low Supply Voltage Dual Op Amp	8-Dip	2.31	1.93	1.54
NJM2737RB1-TE1CT-ND	Low Noise, Low Supply Voltage Dual Op Amp	8-TVSP	2.31	1.93	1.54
NJM2737RB1-TE1TR-ND	Low Noise, Low Supply Voltage Dual Op Amp	8-TVSP	2695.00/2,000		
NJM#2737RB1-TE1CT-ND	Low Noise, Low Supply Voltage Dual Op Amp*	8-TVSP	2.31	1.93	1.54
NJM#2737RB1-TE1TR-ND	Low Noise, Low Supply Voltage Dual Op Amp*	8-TVSP	1750.00/2,000		
NJM2770RB1-TE1CT-ND	High Power and Low Voltage Audio Power Amp	8-TVSP	1.20	1.00	.80
NJM2770RB1-TE1TR-ND	High Power and Low Voltage Audio Power Amp	8-TVSP	1400.00/2,000		
NJM2772V-TE1CT-ND	Low Voltage Headphone Amp for Portable Audio	14-SSOP	1.35	1.13	.90
NJM2772V-TE1TR-ND	Low Voltage Headphone Amp for Portable Audio	14-SSOP	1575.00/2,000		
NJM2904D-ND	Single Supply Dual Op Amp	8-Dip	.36	.30	.24
NJM2904M-ND	Single Supply Dual Op Amp	8-DMP	.39	.33	.26
NJM#4556AD-ND	Dual High Current Op Amp*	8-Dip	.51	.43	.34
NJM#4558D-ND	Dual Op Amp*	8-Dip	.36	.30	.24
NJM#4558M-ND	Dual Op Amp*	8-DMP	.30	.25	.20
NJM4559D-ND	Dual High Gain Op Amp	8-Dip	.42	.35	.28
NJM4559M-ND	Dual High Gain Op Amp	8-DMP	.42	.35	.28
NJM#4560D-ND	High Gain, Wide-Bandwidth, Dual Op Amp*	8-Dip	.42	.35	.28
NJM4560M-ND	High Gain, Wide-Bandwidth, Dual Op Amp	8-DMP	.42	.35	.28
NJM#4560M-ND	High Gain, Wide-Bandwidth, Dual Op Amp*	8-DMP	.42	.35	.28
NJM4562D-ND	High Gain, Wide-Bandwidth, Low Noise, Dual Op Amp	8-Dip	.48	.40	.32
NJM4562M-ND	High Gain, Wide-Bandwidth, Low Noise, Dual Op Amp	8-DMP	.51	.43	.34
NJM#4565D-ND	High Gain, Wide-Bandwidth, Low Noise, Dual Op Amp*	8-Dip	.36	.30	.24
NJM#4580D-ND	Noiseless, High Gain Bandwidth, Dual Op Amp*	8-Dip	.45	.38	.30

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM#4580E-ND	Noiseless, High Gain Bandwidth, Dual Op Amp*	8-EMP	.45	.38	.30
NJM4741D-ND	General Purpose Quad Op Amp	14-Dip	.87	.73	.58
NJM#4741M-ND	General Purpose Quad Op Amp*	14-DMP	1.47	1.23	.98
NJM5532D-ND	High Performance Low Noise Dual Op Amp	8-Dip	.90	.75	.60
NJM5532M-ND	High Performance Low Noise Dual Op Amp	8-DMP	.75	.63	.50
NJM#5532M-ND	High Performance Low Noise Dual Op Amp*	8-DMP	.78	.65	.52
NJM#5534M-ND	High Performance Low Noise Op Amp*	8-DMP	.51	.43	.34
NJM12901M-ND	Single Supply Quad Comparator	14-DMP	.75	.63	.50
NJM12902M-ND	Single Supply Quad Op Amp	14-DMP	.81	.68	.54
NJM12903M-ND	Single Supply Dual Comparator	8-DMP	.39	.33	.26
NJM12904D-ND	Single Supply Dual Amp	8-Dip	.39	.33	.26
NJM12904M-ND	Single Supply Dual Amp	8-DMP	.39	.33	.26
NJM#12904M-TE1CT-ND	Single Supply Dual Amp*	8-DMP	.39	.33	.26
NJM#12904M-TE1TR-ND	Single Supply Dual Amp*	8-DMP	490.00/2,000		
NJM#13403M-ND	Single Supply Quad Op Amp*	14-DMP	.99	.83	.66
NJM13404D-ND	Single Supply Dual Op Amp	8-Dip	.66	.55	.44
NJM13404M-ND	Single Supply Dual Op Amp	8-DMP	.66	.55	.44
NJM13600D-ND	Dual Op Transconductance Amp	16-Dip	.81	.68	.54
NJM13600M-ND	Dual Op Transconductance Amp	16-DMP	.81	.68	.54
NJM13700D-ND	Dual Op Transconductance Amp	16-Dip	.99	.83	.66
NJM13700M-ND	Dual Op Transconductance Amp	16-DMP	.81	.68	.54
NJM#14558D-ND	Dual Op Amp*	8-Dip	.51	.43	.34
NJM14558M-ND	Dual Op Amp	8-DMP	.51	.43	.34
NJMOP-07D-ND	Low Offset Voltage, Low Drift Op Amp	8-Dip	.99	.83	.66
NJM#OP07D-ND	Low Offset Voltage, Low Drift Op Amp*	8-Dip	1.02	.85	.68
NJMOP-07M-ND	Low Offset Voltage, Low Drift Op Amp	8-DMP	1.11	.93	.74
NJU7001D-ND	Low Voltage CMOS Op Amp	8-Dip	.72	.60	.48
NJU7001M-ND	Low Voltage CMOS Op Amp	8-DMP	.69	.58	.46
NJU7002D-ND	Dual Low Voltage CMOS Op Amp	8-Dip	1.02	.85	.68
NJU7002M-ND	Dual Low Voltage CMOS Op Amp	8-DMP	1.02	.85	.68
NJU7004D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	2.01	1.68	1.34
NJU7004M-ND	Quad Low Voltage CMOS Op Amp	14-DMP	2.01	1.68	1.34
NJU7006F-TE1CT-ND	Super Low Operating Current and Low Offset Voltage, Tiny Single CMOS Op Amp	5-MTP	1.86	1.55	1.24
NJU7006F-TE1TR-ND	Super Low Operating Current and Low Offset Voltage, Tiny Single CMOS Op Amp	5-MTP	3255.00/3,000		
NJU7007F3-TE1CT-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	.84	.70	.56
NJU7007F3-TE1TR-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	1470.00/3,000		
NJU7008F3-TE1CT-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	.84	.70	.56
NJU7008F3-TE1TR-ND	Low Power, Low Offset Voltage Super Small Sized Single CMOS Op Amp	SC88A	1470.00/3,000		
NJU7011F-TE1CT-ND	Low Power Tiny Single CMOS Op Amp	5-MTP	.54	.45	.36
NJU7014D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.17	.98	.78
NJU7014M-ND	Low Power Dual CMOS Op Amp	8-DMP	1.17	.98	.78
NJU7015D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.17	.98	.78
NJU7015M-ND	Low Power Dual CMOS Op Amp	8-DMP	1.17	.98	.78
NJU7016D-ND	Low Power Dual CMOS Op Amp	8-Dip	1.20	1.00	.80
NJU7016M-ND	Low Power Dual CMOS Op Amp	8-DMP	.66	.55	.44
NJU7021D-ND	Single Low Voltage CMOS Op Amp	8-Dip	1.38	1.15	.92
NJU7021M-ND	Single Low Voltage CMOS Op Amp	8-DMP	.72	.60	.48
NJU7022D-ND	Dual Low Voltage CMOS Op Amp	8-Dip	.87	.73	.58
NJU7022M-ND	Dual Low Voltage CMOS Op Amp	8-DMP	.87	.73	.58
NJU7024D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	2.13	1.78	1.42
NJU7024M-ND	Quad Low Voltage CMOS Op Amp	14-DMP	2.25	1.88	1.50
NJU7031D-ND	Low Voltage CMOS Op Amp	8-Dip	.75	.63	.50
NJU7031M-ND	Low Voltage CMOS Op Amp	8-DMP	.75	.63	.50
NJU7032D-ND	Dual Low Voltage CMOS Op Amp	8-Dip	.93	.78	.62
NJU#7032M-ND	Dual Low Voltage CMOS Op Amp*	8-DMP	.96	.80	.64
NJU7034D-ND	Quad Low Voltage CMOS Op Amp	14-Dip	1.71	1.43	1.14
NJU7034M-ND	Quad Low Voltage CMOS Op Amp	14-DMP	1.47	1.23	.98
NJU#7034M-ND	Quad Low Voltage CMOS Op Amp*	14-DMP	1.47	1.23	.98
NJU7051D-ND	Low Input Offset Voltage CMOS Op Amp	8-Dip	1.38	1.15	.92
NJU7051M-ND	Low Input Offset Voltage CMOS Op Amp	8-DMP	1.05	.88	.70
NJU7054D-ND	Low Input Offset Voltage CMOS Op Amp	14-Dip	1.53	1.28	1.02
NJU7054M-ND	Quad Low Input Offset Voltage CMOS Op Amp	14-DMP	1.47	1.23	.98
NJU7061D-ND	Single Low Input Offset Voltage CMOS Op Amp	8-Dip	1.02	.85	.68
NJU7061M-ND	Single Low Input Offset Voltage CMOS Op Amp	8-DMP	1.02	.85	.68
NJU7062D-ND	Dual Low Input Offset Voltage CMOS Op Amp	8-Dip	.99	.83	.66
NJU7062M-ND	Dual Low Input Offset Voltage CMOS Op Amp	8-DMP	1.26	1.05	.84
NJU7072D-ND	Dual Low Input Offset Voltage CMOS Op Amp	8-Dip	1.68	1.40	1.12
NJU7072M-ND	Dual Low Input Offset Voltage CMOS Op Amp	8-DMP	1.68	1.40	1.12
NJU7074D-ND	Quad Low Input Offset Voltage CMOS Op Amp	14-Dip	2.73	2.28	1.82
NJU7074M-ND	Quad Low Input Offset Voltage CMOS Op Amp	14-DMP	2.10	1.75	1.40
NJU7081R-TE1CT-ND	Single Low Voltage CMOS Power Amp	8-VSP	.63	.53	.42
NJU7081R-TE1TR-ND	Single Low Voltage CMOS Power Amp	8-VSP	735.00/2,000		
NJU7082BV-TE1CT-ND	Dual Low Voltage CMOS Power Amp	8-SSOP	.72	.60	.48
NJU7091AF-TE1CT-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	.51	.43	.34
NJU7091AF-TE1TR-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	892.50/3,000		
NJU7092AF-TE1CT-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	.39	.33	.26
NJU7092AF-TE1TR-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp	5-MTP	682.50/3,000		
NJU#7093AF-TE1CT-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp*	5-MTP	.96	.80	.64
NJU#7093AF-TE1TR-ND	Low Power/Low Offset Voltage Tiny Single CMOS Op Amp*	5-MTP	1734.00/3,000		
NJU7094D-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-Dip	1.32	1.10	.88
NJU7094M-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-DMP	1.32	1.10	.88
NJU7094R-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	2.73	2.28	1.82
NJU7094R-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	3185.00/2,000		
NJU#7094RB1-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-TVSP	2.73	2.28	1.82
NJU#7094RB1-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-TVSP	3256.00/2,000		
NJU7094V-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	1.47	1.23	.98
NJU7094V-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	1715.00/2,000		
NJU7095D-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-Dip	1.26	1.05	.84
NJU7095M-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-DMP	1.26	1.05	.84
NJU7095R-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	2.73	2.28	1.82
NJU7095R-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-VSP	3185.00/2,000		
NJU7095RB1-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	2.73	2.28	1.82
NJU7095RB1-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	3185.00/2,000		
NJU7095V-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	2.73	2.28	1.82
NJU7095V-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	3185.00/2,000		
NJU7096D-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-Dip	.96	.80	.64

* ***RoHS Compliant***

(Continued)

JRC / NJR Corporation AMPLIFIERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJU7096M-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-DMP	.96	.80	.64
NJU#7096R-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-VSP	2.73	2.28	1.82
NJU#7096R-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp*	8-VSP	3256.00/2,000		
NJU7096RB1-TE1CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	2.73	2.28	1.82
NJU7096RB1-TE1TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-TVSP	3185.00/2,000		
NJU7096V-TE2CT-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	2.73	2.28	1.82
NJU7096V-TE2TR-ND	Low Power/Low Offset Voltage Dual CMOS Op Amp	8-SSOP	3185.00/2,000		
NJU7102AD-ND	CMOS Comparator with CMOS Output	8-Dip	3.15	2.63	2.10
NJU7102AM-ND	CMOS Comparator with CMOS Output	8-DMP	3.15	2.63	2.10
NJU8721V-TE1CT-ND	Class-D Headphone Amplifier for Digital Audio	20-SSOP	4.20	3.50	2.80
NJU8721V-TE1TR-ND	Class-D Headphone Amplifier for Digital Audio	20-SSOP	4900.00/2,000		
NJU8725V-TE1CT-ND	Class-D Amp for Digital Audio	24-SSOP	6.30	5.25	4.20
NJU8725V-TE1TR-ND	Class-D Amp for Digital Audio	24-SSOP	7350.00/2,000		
NJU#8752V-TE1CT-ND	Analog Signal Input Class-D Amp for Piezo Speaker*	14-SSOP	5.46	4.55	3.64
NJU#8752V-TE1TR-ND	Analog Signal Input Class-D Amp for Piezo Speaker*	14-SSOP	4236.00/2,000		
NJU#8754V-TE2CT-ND	Analog Signal Input Monaural Class-D Power Amp*	10-SSOP	2.19	1.83	1.46
NJU#8754V-TE2TR-ND	Analog Signal Input Monaural Class-D Power Amp*	10-SSOP	2590.00/2,000		
NJU#8755V-TE1CT-ND	Analog Signal Input Stereo Class-D Power Amp*	20-SSOP	5.04	4.20	3.36
NJU#8755V-TE1TR-ND	Analog Signal Input Stereo Class-D Power Amp*	20-SSOP	4236.00/2,000		
NJW1105D-ND	Dual Audio Power Amplifier	16-Dip	3.48	2.90	2.32
NJW1105M-ND	Dual Audio Power Amplifier	30-SDMP	3.48	2.90	2.32

* ***RoHS Compliant***

JRC / NJR Corporation DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJM#2577M-TE2CT-ND	Quad Video Driver*	20-DMP	3.36	2.80	2.24
NJM#2577M-TE2TR-ND	Quad Video Driver*	20-DMP	3990.00/2,000		
NJM#3517D2-ND	Stepper Motor Controller/Driver*	16-Dip	4.71	3.93	3.14
NJM3517E2-ND	Stepper Motor Controller/Driver	16-EMP	5.61	4.68	3.74
NJM#3517E2-ND	Stepper Motor Controller/Driver*	16-EMP	5.73	4.78	3.82
NJM3717D2-ND	Stepper Motor Driver	16-Dip	2.10	1.75	1.40
NJM#3717D2-ND	Stepper Motor Driver*	16-Dip	2.13	1.78	1.42
NJM3717FM2-ND	Stepper Motor Driver	28-PLCC	5.40	4.50	3.60
NJM#3770AD3-ND	Stepper Motor Driver*	16-Dip (Batwing)	4.59	3.83	3.06
NJM#3771D2-ND	Dual Stepper Motor Driver*	22-Dip	6.00	5.00	4.00
NJM3771FM2-ND	Dual Stepper Motor Driver	28-PLCC	5.88	4.90	3.92
NJM#3771FM2-ND	Dual Stepper Motor Driver*	28-PLCC	6.00	5.00	4.00
NJM3772D2-ND	Dual Stepper Motor Driver	22-Dip	5.46	4.55	3.64
NJM#3772D2-ND	Dual Stepper Motor Driver*	22-Dip	5.58	4.65	3.72
NJM3772FM2-ND	Dual Stepper Motor Driver	28-PLCC	5.46	4.55	3.64
NJM3773D2-ND	Dual Stepper Motor Driver	22-Dip	5.04	4.20	3.36
NJM#3773D2-ND	Dual Stepper Motor Driver*	22-Dip	5.13	4.28	3.42
NJM#3773FM2-ND	Dual Stepper Motor Driver*	28-PLCC	5.04	4.20	3.36
NJM3774D2-ND	Dual Stepper Motor Driver	22-Dip	5.46	4.55	3.64
NJM3774FM2-ND	Dual Stepper Motor Driver	28-PLCC	5.46	4.55	3.64
NJM3775D2-ND	Dual Stepper Motor Driver	22-Dip	5.04	4.20	3.36
NJM#3775D2-ND	Dual Stepper Motor Driver*	22-Dip	5.13	4.28	3.42
NJM3775FM2-ND	Dual Stepper Motor Driver	28-PLCC	5.04	4.20	3.36
NJM3777E3-ND	Dual Stepper Motor Driver	24-EMP	4.71	3.93	3.14
NJM#3777E3-ND	Dual Stepper Motor Driver*	24-EMP	4.80	4.00	3.20
NJM37717D2-ND	Stepper Motor Driver	16-Dip	5.04	4.20	3.36
NJM37717E3-ND	Stepper Motor Driver	24-EMP	5.04	4.20	3.36
NJM37770D3-ND	Stepper Motor Driver	16-Dip	7.86	6.55	5.24
NJU6048F-TE1CT-ND	High Efficiency White LED Driver	SOT-23-5	1.68	1.40	1.12
NJU6048F-TE1TR-ND	High Efficiency White LED Driver	SOT-23-5	2940.00/3,000		
NJU#6050F-TE2CT-ND	High Efficiency White LED Driver*	SOT-23-5	2.10	1.75	1.40
NJU#6050F-TE2TR-ND	High Efficiency White LED Driver*	SOT-23-5	3729.00/3,000		
NJU#6060V-TE1CT-ND	Full Color LED Controller Driver with PWM Control*	10-SSOP	1.47	1.23	.98
NJU#6060V-TE1TR-ND	Full Color LED Controller Driver with PWM Control*	10-SSOP	1750.00/2,000		
NJU6416FC1-ND	Dot Matrix LCD 8-Out Segment Driver	100-QFP	6.15	5.13	4.10
NJU7325R-TE1CT-ND	Single-Phase DC Brushless Motor Driver	8-VSP	1.05	.88	.70
NJU7325R-TE1TR-ND	Single-Phase DC Brushless Motor Driver	8-VSP	1225.00/2,000		
NJU#8711V-TE2CT-ND	3V Operation Switching Driver for Class D Amp*	10-SSOP	2.52	2.10	1.68
NJU#8711V-TE2TR-ND	3V Operation Switching Driver for Class D Amp*	10-SSOP	3256.00/2,000		
NJU#8713V-TE1CT-ND	2V Operation Switching Driver for Class D Amp*	14-SSOP	2.73	2.28	1.82
NJU#8713V-TE1TR-ND	2V Operation Switching Driver for Class D Amp*	14-SSOP	2766.00/2,000		
NJW4301D-ND	2-Channel Bridge Driver	16-Dip	3.48	2.90	2.32
NJW4301M-ND	2-Channel Bridge Driver	30-SDMP	3.48	2.90	2.32

* ***RoHS Compliant***

JRC / NJR Corporation MULTIPLEXER

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJU4051BD-ND	Single 8-Channel Mux	16-Dip	.90	.75	.60
NJU4051BM-ND	Single 8-Channel Mux	16-DMP	.93	.78	.62
NJU4052BD-ND	Dual 4-Channel Mux	16-Dip	.90	.75	.60
NJU4052BM-ND	Dual 4-Channel Mux	16-DMP	1.05	.88	.70
NJU4053BD-ND	Triple 2-Channel Mux	16-Dip	.96	.80	.64
NJU4053BM-ND	Triple 2-Channel Mux	16-DMP	.96	.80	.64

JRC / NJR Corporation POWER MANAGEMENT

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJM#78L02L2A-ND	2.6V, 100mA Positive Voltage Regulator*	TO-92	.36	.30	.24
NJM#78L05L2A-ND	5V, 100mA, Positive Voltage Regulator*	TO-92	.36	.30	.24
NJM78L06A-ND	6V, 100mA, Positive Voltage Regulator	TO-92	.36	.30	.24
NJM#78L06L2A-ND	6V, 100mA, Positive Voltage Regulator*	TO-92	.36	.30	.24
NJM#78L08L2A-ND	8V, 100mA, Positive Voltage Regulator*	TO-92	.36	.30	.24
NJM#78L09L2A-ND	9V, 100mA, Positive Voltage Regulator*	TO-92	.36	.30	.24
NJM78L12A-ND	12V, 100mA, Positive Voltage Regulator	TO-92	.36	.30	.24
NJM#78L12L2A-ND	12V, 100mA, Positive Voltage Regulator*	TO-92	.36	.30	.24
NJM78L15A-ND	15V, 100mA, Positive Voltage Regulator	TO-92	.36	.30	.24
NJM#78L15L2A-ND	15V, 100mA, Positive Voltage Regulator*	TO-92	.36	.30	.24
NJM#78L18L2A-ND	18V, 100mA, Positive Voltage Regulator*	TO-92	.36	.30	.24
NJM78LR05BD-ND	Series Regulator with Reset Function	8-Dip	.72	.60	.48
NJM78LR05BM-ND	Series Regulator with Reset Function	8-DMP	.45	.38	.30
NJM#78L20L2A-ND	20V, 100mA, Positive Voltage Regulator*	TO-92	.36	.30	.24
NJM78L24A-ND	24V, 100mA, Positive Voltage Regulator	TO-92	.36	.30	.24
NJM#78L24L2A-ND	24V, 100mA, Positive Voltage Regulator*	TO-92	.36	.30	.24
NJM#78L05UA-ND	5V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM78L06UA-ND	6V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM#78L06UA-ND	6V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM#78L08UA-ND	8V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM#78L09UA-ND	9V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM#78L12UA-ND	12V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM#78L15UA-ND	15V, 100mA, Positive Voltage Regulator*	SOT-89	.39	.33	.26
NJM78L18UA-ND	18V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM78L20UA-ND	20V, 100mA, Positive Voltage Regulator	SOT-89	.39	.33	.26
NJM#78LR05BUTE1CT-ND	Series Regulator with Reset Function*	SOT-89-5	.60	.50	.40
NJM#78LR05BUTE1TR-ND	Series Regulator with Reset Function*	SOT-89-5	350.00/1,000		
NJM78LR05DD-ND	Series Regulator with Reset Function	8-Dip	.72	.60	.48
NJM78LR05DU-TE1CT-ND	Series Regulator with Reset Function	SOT-89-5	.60	.50	.40
NJM78LR05DU-TE1TR-ND	Series Regulator with Reset Function	SOT-89-5	350.00/1,000		
NJM78M05FA-ND	5V, 500mA, Positive Voltage Reg. with Isolated Tab	TO-220F	.54	.45	.36
NJM#78M05FA-ND	5V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.54	.45	.36
NJM78M06FA-ND	6V, 500mA, Positive Voltage Reg. with Isolated Tab	TO-220F	.54	.45	.36
NJM#78M06FA-ND	6V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.54	.45	.36
NJM78M08FA-ND	8V, 500mA, Positive Voltage Reg. with Isolated Tab	TO-220F	.54	.45	.36
NJM#78M09FA-ND	9V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.54	.45	.36
NJM#78M12FA-ND	12V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.54	.45	.36
NJM#78M15FA-ND	15V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.54	.45	.36
NJM78M18FA-ND	18V, 500mA, Positive Voltage Reg. with Isolated Tab	TO-220F	.54	.45	.36
NJM78M20FA-ND	20V, 500mA, Positive Voltage Reg. with Isolated Tab	TO-220F	.54	.45	.36
NJM78M24FA-ND	24V, 500mA, Positive Voltage Reg. with Isolated Tab	TO-220F	.54	.45	.36
NJM#78M24FA-ND	24V, 500mA, Positive Voltage Reg. with Isolated Tab*	TO-220F	.54	.45	.36
NJM#79L05L2A-ND	5V, 100mA, Negative Voltage Regulator*	TO-92	.42	.35	.28
NJM#79L05UA-ND	5V, 100mA, Negative Voltage Regulator*	SOT-89	.69	.58	.46
NJM#79L06L2A-ND	6V, 100mA, Negative Voltage Regulator*	TO-92	.42	.35	.28
NJM#79L08L2A-ND	8V, 100mA, Negative Voltage Regulator*	TO-92	.42	.35	.28
NJM#79L08UA-ND	8V, 100mA, Negative Voltage Regulator*	SOT-89	.69	.58	.46
NJM79L09A-ND	9V, 100mA, Negative Voltage Regulator	TO-92	.42	.35	.28
NJM#79L09L2A-ND	9V, 100mA, Negative Voltage Regulator*	TO-92	.42	.35	.28
NJM79L09UA-ND	9V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM#79L09UA-ND	9V, 100mA, Negative Voltage Regulator*	SOT-89	.69	.58	.46
NJM#79L09UA-TE1CT-ND	9V, 100mA, Negative Voltage Regulator* ***NEW!***	SOT-89	.45	.38	.30
NJM#79L09UA-TE1TR-ND	9V, 100mA, Negative Voltage Regulator* ***NEW!***	SOT-89	263.00/1,000		
NJM79L12A-ND	12V, 100mA, Negative Voltage Regulator	TO-92	.42	.35	.28
NJM#79L12L2A-ND	12V, 100mA, Negative Voltage Regulator*	TO-92	.42	.35	.28
NJM79L12UA-ND	12V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM#79L12UA-ND	12V, 100mA, Negative Voltage Regulator*	SOT-89	.69	.58	.46
NJM#79L15L2A-ND	15V, 100mA, Negative Voltage Regulator*	TO-92	.42	.35	.28
NJM79L15UA-ND	15V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM#79L15UA-ND	15V, 100mA, Negative Voltage Regulator*	SOT-89	.69	.58	.46
NJM#79L15UA-TE2CT-ND	15V, 100mA, Negative Voltage Regulator* ***NEW!***	SOT-89	.45	.38	.30
NJM#79L15UA-TE2TR-ND	15V, 100mA, Negative Voltage Regulator* ***NEW!***	SOT-89	263.00/1,000		
NJM#79L18L2A-ND	18V, 100mA, Negative Voltage Regulator*	TO-92	.42	.35	.28
NJM#79L24L2A-ND	24V, 100mA, Negative Voltage Regulator*	TO-92	.42	.35	.28
NJM79L24UA-ND	24V, 100mA, Negative Voltage Regulator	SOT-89	.69	.58	.46
NJM79M05FA-ND	5V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM#79M05FA-ND	5V, 500mA, Negative Voltage Regulator with Isolated Tab*	TO-220F	.69	.58	.46
NJM79M06FA-ND	6V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M08FA-ND	8V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M09FA-ND	9V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M15FA-ND	15V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M18FA-ND	18V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM79M24FA-ND	24V, 500mA, Negative Voltage Regulator with Isolated Tab	TO-220F	.69	.58	.46
NJM317DL1-TE1CT-ND	Adjustable 3-Terminal Positive Voltage Regulator	TO-252	.90	.75	.60
NJM317DL1-TE1TR-ND	Adjustable 3-Terminal Positive Voltage Regulator	TO-252	1575.00/3,000		
NJM#317DL1-TE1CT-ND	Adjustable 3-Terminal Positive Voltage Regulator*	TO-252	.90	.75	.60
NJM#317DL1-TE1TR-ND	Adjustable 3-Terminal Positive Voltage Regulator*	TO-252	1629.00/3,000		
NJM317F-ND	Adjustable 1.5A, Volt. Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM#317F-ND	Adjustable 1.5A, Volt. Regulator with Isolated Tab*	TO-220F	.93	.78	.62
NJM431D-ND	Adjustable Precision Shunt Regulator	8-Dip	.48	.40	.32
NJM431E-ND	Adjustable Precision Shunt Regulator	8-SOIC	.42	.35	.28
NJM431L-ND	Adjustable Precision Shunt Regulator	TO-92	.42	.35	.28
NJM431M-ND	Adjustable Precision Shunt Regulator	8-DMP	.54	.45	.36
NJM431U-ND	Adjustable Precision Shunt Regulator	SOT-89	.54	.45	.36
NJM723M-ND	Precision Voltage Regulator	14-DMP	.54	.45	.36
NJM#723M-ND	Precision Voltage Regulator*	14-DMP	.57	.48	.38
NJM2352D-ND	Low Power Switching Regulator with Low Battery Detection	8-Dip	.66	.55	.44
NJM2352M-ND	Low Power Switching Regulator	8-DMP	.66	.55	.44
NJM#2355D-ND	2-Output High Voltage Switching Regulator*	18-Dip	2.58	2.15	1.72
NJM#2360D-ND	DC/DC Converter Control IC*	8-Dip	.84	.70	.56
NJM2370R02-TE1CT-ND	2.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R02-TE1TR-ND	2.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	700.00/2,000		
NJM2370R03-TE1CT-ND	3.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R03-TE1TR-ND	3.0V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	700.00/2,000		
NJM2370R37-TE1CT-ND	3.7V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	.60	.50	.40
NJM2370R37-TE1TR-ND	3.7V, Low Dropout Voltage Regulator with On/Off Control	8-VSP	700.00/2,000		
NJM2370U03-TE1CT-ND	3V, Low Dropout Voltage Regulator with On/Off Control	SOT-89-5	.60	.50	.40
NJM2370U03-TE1TR-ND	3V, Low Dropout Voltage Regulator with On/Off Control	SOT-89-5	350.00/1,000		
NJM#2370U05-TE1CT-ND	5V, Low Dropout Voltage Regulator with On/Off Control*	SOT-89-5	.60	.50	.40
NJM#2370U05-TE1TR-ND	5V, Low Dropout Voltage Regulator with On/Off Control*	SOT-89-5	350.00/1,000		
NJM2373AF-TE1CT-ND	Adjustable High Precision Shunt Regulator	5-MTP	.66	.55	.44
NJM2373AF-TE1TR-ND	Adjustable High Precision Shunt Regulator	5-MTP	1155.00/3,000		
NJM2373AU-TE1CT-ND	Adjustable High Precision Shunt Regulator	SOT-89	.84	.70	.56
NJM2373AU-TE1TR-ND	Adjustable High Precision Shunt Regulator	SOT-89	490.00/1,000		
NJM2374AD-ND	PWM DC/DC Converter	8-Dip	1.47	1.23	.98
NJM2374AM-ND	PWM DC/DC Converter	8-DMP	1.47	1.23	.98
NJM2384D-ND	DC/DC Converter Control	14-Dip	2.10	1.75	1.40
NJM2391DL103TE1CT-ND	3V, Low Dropout Voltage Regulator	TO-252	.84	.70	.56
NJM2391DL103TE1TR-ND	3V, Low Dropout Voltage Regulator	TO-252	1524.00/3,000		
NJM2396F05-ND	Low Dropout Voltage Regulator	TO-220F-4	1.14	.95	.76
NJM2396F33-ND	Low Dropout Voltage Regulator	TO-220F-4	1.05	.88	.70
NJM2396F63-ND	Low Dropout Voltage Regulator	TO-220F-4	1.05	.88	.70
NJM2397F-ND	Adjustable Low Dropout Voltage Regulator	TO-220F-4	1.14	.95	.76
NJM2800F3342TE1CT-ND	3.3V, Low Dropout Voltage Regulator with Reset	5-MTP	1.05	.88	.70

* ***RoHS Compliant***

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JRC / NJR Corporation POWER MANAGEMENT *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM2800F3342TE1TR-ND	3.3V, Low Dropout Voltage Regulator with Reset	5-MTP	1837.50/3,000		
NJM2800U3342TE1CT-ND	3.3V, Low Dropout Voltage Regulator with Reset	SOT-89-5	1.05	.88	.70
NJM2800U3342TE1TR-ND	3.3V, Low Dropout Voltage Regulator with Reset	SOT-89-5	630.00/1,000		
NJM2845DL118TE1CT-ND	1.8V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL118TE1TR-ND	1.8V, Low Dropout Voltage Regulator	TO-252	1102.50/3,000		
NJM2845DL123TE1CT-ND	2.3V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL123TE1TR-ND	2.3V, Low Dropout Voltage Regulator	TO-252	1102.50/3,000		
NJM2845DL125TE1CT-ND	2.5V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL125TE1TR-ND	2.5V, Low Dropout Voltage Regulator	TO-252	1102.50/3,000		
NJM2845DL103TE1CT-ND	3V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL103TE1TR-ND	3V, Low Dropout Voltage Regulator	TO-252	1102.50/3,000		
NJM2845DL133TE1CT-ND	3.3V, Low Dropout Voltage Regulator	TO-252	.63	.53	.42
NJM2845DL133TE1TR-ND	3.3V, Low Dropout Voltage Regulator	TO-252	1102.50/3,000		
NJM2846DL303TE1CT-ND	3V, Low Dropout Voltage Regulator	TO-252-5	.81	.68	.54
NJM2846DL303TE1TR-ND	3V, Low Dropout Voltage Regulator	TO-252-5	1417.50/3,000		
NJM2846DL305TE1CT-ND	5V, Low Dropout Voltage Regulator	TO-252-5	.81	.68	.54
NJM2846DL305TE1TR-ND	5V, Low Dropout Voltage Regulator	TO-252-5	1417.50/3,000		
NJM2846DL318TE1CT-ND	1.8V, Low Dropout Voltage Regulator	TO-252-5	.81	.68	.54
NJM2846DL318TE1TR-ND	1.8V, Low Dropout Voltage Regulator	TO-252-5	1417.50/3,000		
NJM2846DL323TE1CT-ND	2.3V, Low Dropout Voltage Regulator	TO-252-5	.81	.68	.54
NJM2846DL323TE1TR-ND	2.3V, Low Dropout Voltage Regulator	TO-252-5	1417.50/3,000		
NJM2846DL333TE1CT-ND	3.3V, Low Dropout Voltage Regulator	TO-252-5	.81	.68	.54
NJM2846DL333TE1TR-ND	3.3V, Low Dropout Voltage Regulator	TO-252-5	1417.50/3,000		
NJM2860F3-25TE1CT-ND	Low Dropout Voltage Regulator	SC-88A	.45	.38	.30
NJM2860F3-25TE1TR-ND	Low Dropout Voltage Regulator	SC-88A	787.50/3,000		
NJM2860F3-33TE1CT-ND	Low Dropout Voltage Regulator	SC-88A	.45	.38	.30
NJM2860F3-33TE1TR-ND	Low Dropout Voltage Regulator	SC-88A	787.50/3,000		
NJM2860F3-47TE1CT-ND	Low Dropout Voltage Regulator	SC-88A	.45	.38	.30
NJM2860F3-47TE1TR-ND	Low Dropout Voltage Regulator	SC-88A	787.50/3,000		
NJM2863F03-TE1CT-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJM2863F03-TE1TR-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJM2863F28-TE1CT-ND	2.8V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJM2863F28-TE1TR-ND	2.8V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJM2863F29-TE1CT-ND	2.9V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJM2863F29-TE1TR-ND	2.9V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJM2864F03-TE1CT-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJM2864F03-TE1TR-ND	3V, Ultra Low Noise Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJM#2865F333TE1CT-ND	3.3V, Low Dropout Voltage Regulator*	SC88A	.42	.35	.28
NJM#2865F333TE1TR-ND	3.3V, Low Dropout Voltage Regulator*	SC88A	735.00/3,000		
NJM2870F21-TE1CT-ND	2.1V, Low Dropout Voltage Regulator	5-MTP	.42	.35	.28
NJM2870F21-TE1TR-ND	2.1V, Low Dropout Voltage Regulator	5-MTP	735.00/3,000		
NJM#2870F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator*	5-MTP	.42	.35	.28
NJM#2870F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator*	5-MTP	735.00/3,000		
NJM2870F48-TE1CT-ND	4.8V, Low Dropout Voltage Regulator	5-MTP	.42	.35	.28
NJM2870F48-TE1TR-ND	4.8V, Low Dropout Voltage Regulator	5-MTP	735.00/3,000		
NJM#2871AF25TE1CT-ND	2.5V, Low Dropout Voltage Regulator*	5-MTP	.42	.35	.28
NJM#2871AF25TE1TR-ND	2.5V, Low Dropout Voltage Regulator*	5-MTP	735.00/3,000		
NJM2880U21-TE1CT-ND	2.1V, Low Dropout Voltage Regulator	SOT-89-5	.75	.63	.50
NJM2880U21-TE1TR-ND	2.1V, Low Dropout Voltage Regulator	SOT-89-5	437.50/1,000		
NJM2881F18-TE1CT-ND	1.8V, Low Dropout Voltage Regulator	SOT-23-5	.54	.45	.36
NJM#2881F28-TE1CT-ND	2.8V, Low Dropout Voltage Regulator*	SOT-23-5	.54	.45	.36
NJM#2881F28-TE1TR-ND	2.8V, Low Dropout Voltage Regulator*	SOT-23-5	999.00/3,000		
NJM2886DL233TE1CT-ND	3.3V, Low Dropout Voltage Regulator	TO-252-5	.96	.80	.64
NJM2886DL233TE1TR-ND	3.3V, Low Dropout Voltage Regulator	TO-252-5	1680.00/3,000		
NJM2930F05-ND	5V, Low Dropout Voltage Regulator	TO-220F	.72	.60	.48
NJM2930F85-ND	8.5V, Low Dropout Voltage Regulator	TO-220F	.72	.60	.48
NJM2930L85-ND	8.5V, Low Dropout Voltage Regulator	TO-92	.54	.45	.36
NJM7905FA-ND	5V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM#7905FA-ND	5V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.93	.78	.62
NJM7906FA-ND	6V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM7908FA-ND	8V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM#7908FA-ND	8V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.93	.78	.62
NJM7909FA-ND	9V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM#7909FA-ND	9V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.93	.78	.62
NJM7912FA-ND	12V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.72	.60	.48
NJM#7912FA-ND	12V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.93	.78	.62
NJM#7915FA-ND	15V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.93	.78	.62
NJM7918FA-ND	18V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM#7918FA-ND	18V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.93	.78	.62
NJM7924FA-ND	24V, 1.5A, Negative Voltage Regulator with Isolated Tab	TO-220F	.93	.78	.62
NJM#7924FA-ND	24V, 1.5A, Negative Voltage Regulator with Isolated Tab*	TO-220F	.93	.78	.62
NJU7201L12-ND	1.2V, CMOS 3-Terminal Positive Voltage Regulator	TO-92	.60	.50	.40
NJU7201L32-ND	3.2V, CMOS 3-Terminal Positive Voltage Regulator	TO-92	.60	.50	.40
NJU#7201L232-ND	3.2V, CMOS 3-Terminal Positive Voltage Regulator*	TO-92	.60	.50	.40
NJU7201L55-ND	5.5V, CMOS 3-Terminal Positive Voltage Regulator	TO-92	.63	.53	.42
NJU#7201U32-ND	3.2V, CMOS 3-Terminal Positive Voltage Regulator*	SOT-89	.87	.73	.58
NJU7211L30-ND	-3.0V, CMOS 3-Terminal Negative Voltage Regulator	TO-92	.72	.60	.48
NJU7211L50-ND	-5.0V, CMOS 3-Terminal Negative Voltage Regulator	TO-92	.72	.60	.48
NJU7222L30-ND	3V, High Precision/High Output Current CMOS 3-Terminal Voltage Regulator	TO-92	.84	.70	.56
NJU7222L50-ND	5V, High Precision/High Output Current CMOS 3-Terminal Voltage Regulator	TO-92	.84	.70	.56
NJU7222U30-ND	3V, High Precision/High Output Current CMOS 3-Terminal Voltage Regulator	SOT-89	.66	.55	.44
NJU7222U50-ND	5V, High Precision/High Output Current CMOS 3-Terminal Voltage Regulator	SOT-89	.66	.55	.44
NJU7223F18-ND	1.8V, 500mA Low Dropout Voltage Regulator	TO-220F	.93	.78	.62
NJU#7223F50-ND	5V, 500mA Low Dropout Voltage Regulator*	TO-220F	.93	.78	.62
NJU7231F12-TE1CT-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	.60	.50	.40
NJU7231F12-TE1TR-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	1050.00/3,000		
NJU7231F28-TE1CT-ND	2.8V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	.60	.50	.40
NJU7231F28-TE1TR-ND	2.8V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	1050.00/3,000		
NJU7231F52-TE1CT-ND	5.2V, High Precision CMOS 3-Terminal Voltage Regulator	5-MTP	.60	.50	.40
NJU7231L12-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	TO-92	.75	.63	.50
NJU7231L28-ND	2.8V, High Precision CMOS 3-Terminal Voltage Regulator	TO-92	.75	.63	.50
NJU7231L52-ND	5.2V, High Precision CMOS 3-Terminal Voltage Regulator	TO-92	.75	.63	.50
NJU7231U12-TE1CT-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	.60	.50	.40
NJU7231U12-TE1TR-ND	1.2V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	350.00/1,000		
NJU7231U18-TE1CT-ND	1.8V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	.60	.50	.40
NJU7231U18-TE1TR-ND	1.8V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	350.00/1,000		
NJU7231U30-TE1CT-ND	3V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	.60	.50	.40
NJU7231U30-TE1TR-ND	3V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	350.00/1,000		
NJU7231U50-TE1CT-ND	5V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	.60	.50	.40
NJU7231U50-TE1TR-ND	5V, High Precision CMOS 3-Terminal Voltage Regulator	SOT-89	350.00/1,000		
NJU7241F18-TE1CT-ND	1.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	.46
NJU7241F18-TE1TR-ND	1.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	1207.50/3,000		
NJU7241F28-TE1CT-ND	2.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	.46
NJU7241F28-TE1TR-ND	2.8V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	1207.50/3,000		
NJU7241F40-TE1CT-ND	4V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	.46
NJU7241F40-TE1TR-ND	4V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	1207.50/3,000		
NJU7241F50-TE1CT-ND	5V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	.69	.58	.46
NJU7241F50-TE1TR-ND	5V, High Precision LDO 60mA CMOS Voltage Regulator	5-MTP	1207.50/3,000		
NJU7250F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	.69	.58	.46
NJU7250F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	1207.50/3,000		
NJU7250F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	.69	.58	.46
NJU7250F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	1207.50/3,000		
NJU7261U30-TE1CT-ND	3V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	.64
NJU7261U30-TE1TR-ND	3V, CMOS Step-Up Switching Regulator	SOT-89-5	560.00/1,000		
NJU7261U33-TE1CT-ND	3.3V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	.64
NJU7261U33-TE1TR-ND	3.3V, CMOS Step-Up Switching Regulator	SOT-89-5	560.00/1,000		
NJU7261U50-TE1CT-ND	5V, CMOS Step-Up Switching Regulator	SOT-89-5	.96	.80	.64
NJU7261U50-TE1TR-ND	5V, CMOS Step-Up Switching Regulator	SOT-89-5	560.00/1,000		
NJU7600M-ND	PWM Control Boost/Flyback Switching Regulator	8-DMP	1.26	1.05	.84
NJU#7660D-ND	DC/DC Voltage Converter*	8-Dip	.72	.60	.48
NJU#7662D-ND	DC/DC Voltage Converter*	8-Dip	1.50	1.25	1.00
NJU7665AF-TE1CT-ND	Small Package Voltage Inverter	5-MTP	1.26	1.05	.84
NJU7665AF-TE1TR-ND	Small Package Voltage Inverter	5-MTP	2205.00/3,000		
NJU#7665CF-TE1CT-ND	Small Package Voltage Inverter*	5-MTP	1.26	1.05	.84
NJU#7665CF-TE1TR-ND	Small Package Voltage Inverter*	5-MTP	2259.00/3,000		
NJU7670D-ND	Voltage Tripler	14-Dip	2.94	2.45	1.96
NJU7670M-ND	Voltage Tripler	14-DMP	2.94	2.45	1.96
NJU7670V-TE1CT-ND	Voltage Tripler	14-SSOP	3.03	2.53	2.02
NJU7670V-TE1TR-ND	Voltage Tripler	14-SSOP	3535.00/2,000		
NJU7700F25-TE1CT-ND	2.5V, N-Channel Open Drain Voltage Detector	SOT-23-5	.42	.35	.28
NJU7700F25-TE1TR-ND	2.5V, N-Channel Open Drain Voltage Detector	SOT-23-5	735.00/3,000		
NJU7700F27-TE1CT-ND	2.7V, N-Channel Open Drain Voltage Detector	SOT-23-5	.42	.35	.28
NJU7700F27-TE1TR-ND	2.7V, N-Channel Open Drain Voltage Detector	SOT-23-5	735.00/3,000		
NJU7701F06-TE1CT-ND	6V, CMOS Output Voltage Detector	SOT-23-5	.42	.35	.28
NJU7701F06-TE1TR-ND	6V, CMOS Output Voltage Detector	SOT-23-5	735.00/3,000		
NJU7701F28-TE1CT-ND	2.8V, CMOS Output Voltage Detector	SOT-23-5	.42	.35	.28
NJU7701F28-TE1TR-ND	2.8V, CMOS Output Voltage Detector	SOT-23-5	735.00/3,000		
NJU7701F44-TE1CT-ND	4.4V, CMOS Output Voltage Detector	SOT-23-5	.42	.35	.28
NJU7701F44-TE1TR-ND	4.4V, CMOS Output Voltage Detector	SOT-23-5	735.00/3,000		
NJU7771F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7771F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7771F05-TE1CT-ND	5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7772F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	5-MTP	.42	.35	.28
NJU7772F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	5-MTP	735.00/3,000		
NJU#7772F15-TE1CT-ND	1.5V, Low Dropout Voltage Regulator*	5-MTP	.42	.35	.28
NJU#7772F15-TE1TR-ND	1.5V, Low Dropout Voltage Regulator*	5-MTP	894.00/3,000		
NJU7773F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7773F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7773F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7773F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7774F03-TE1CT-ND	3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7774F03-TE1TR-ND	3V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7774F15-TE1CT-ND	1.5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7774F15-TE1TR-ND	1.5V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7774F28-TE1CT-ND	2.8V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7774F28-TE1TR-ND	2.8V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7775F05-TE1CT-ND	5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7775F05-TE1TR-ND	5V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7775F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7775F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7776F25-TE1CT-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7776F25-TE1TR-ND	2.5V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		
NJU7776F33-TE1CT-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	.45	.38	.30
NJU7776F33-TE1TR-ND	3.3V, Low Dropout Voltage Regulator	5-MTP	787.50/3,000		

JRC / NJR Corporation SPECIALIZED ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
NJM1496M-ND	Double Balanced Modulator/Demodulator	14-DMP	1.65	1.38	1.10
NJM2207D-ND	Video Superimposer	14-Dip	1.20	1.00	.80
NJM#2211D-ND	FSK Demodulator/Tone Decoder*	14-Dip	.96	.80	.64
NJM2211M-ND	FSK Demodulator/Tone Decoder	14-SOIC	1.62	1.35	1.08
NJM#2211M-ND	FSK Demodulator/Tone Decoder*	14-SOIC	1.65	1.38	1.10
NJM2229M-ND	Sync. Separation with AFC	16-DMP	1.68	1.40	1.12
NJM2230M-ND	Video Sync. Detector	8-DMP	.75	.63	.50
NJM2232AM-ND	FM IF with Log Amp	24-DMP	3.93	3.28	2.62
NJM2240D-ND	Video Sub-Carrier Signal Quadrupler	8-Dip	1.89	1.58	1.26
NJM2240M-ND	Video Sub-Carrier Signal Quadrupler	8-DMP	1.89	1.58	1.26
NJM2247AM-ND	Video Color Superimposer	20-DMP	2.10	1.75	1.40
NJM2248D-ND	3-Input Video Superimposer	8-Dip	1.05	.88	.70
NJM2255M-ND	Chroma Signal Hue Tint Controller	8-DMP	1.68	1.40	1.12
NJM2257D-ND	Sync. Separator with AFC	16-Dip	2.85	2.38	1.90
NJM2259M-ND	RF Modulator for UHF Band	16-DMP	1.89	1.58	1.26
NJM2264D-ND	3-Input Video Superimposer with 75-Ohm Driver	8-Dip	.72	.60	.48
NJM2265D-ND	3-Input Video Superimposer	8-Dip	.54	.45	.36
NJM2266D-ND	3-Input Video Superimposer with 6dB Amp	8-Dip	.69	.58	.46
NJM2292V-TE1CT-ND	Narrow Band FM IF IC	20-SSOP	1.47	1.23	.98
NJM2292V-TE1TR-ND	Narrow Band FM IF IC	20-SSOP	1715.00/2,000		
NJM#2292V-TE1CT-ND	Narrow Band FM IF IC*	20-SSOP	1.47	1.23	.98
NJM#2292V-TE1TR-ND	Narrow Band FM IF IC*	20-SSOP	1750.00/2,000		
NJM2294V-TE1CT-ND	FM IF IC for Pager	16-SSOP	3.99	3.33	2.66
NJM2294V-TE1TR-ND	FM IF IC for Pager	16-SSOP	3675.00/2,000		
NJM2295AV-TE1CT-ND	FM IF IC for Remote Keyless Entry System	20-SSOP	3.48	2.90	2.32
NJM#2509V-TE1CT-ND	Video Superimposer with Y-C Mixer*	8-SSOP	1.68	1.40	1.12
NJM#2509V-TE1TR-ND	Video Superimposer with Y-C Mixer*	8-SSOP	1995.00/2,000		
NJM2519AM-ND	RF Modulator for VHF Band	8-DMP	1.26	1.05	.84
NJM2590V-TE1CT-ND	455KHz Input FM IF Demodulator	14-SSOP	2.10	1.75	1.40
NJM2592V-TE1CT-ND	470MHz Input Mixer 455KHz FM IF Demodulator	20-SSOP	3.15	2.63	2.10

* ***RoHS Compliant***

(Continued)

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JRC / NJR Corporation SPECIALIZED ICs *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJM2592V-TE1TR-ND	470MHz Input Mixer 455KHz FM IF Demodulator	20-SSOP	3675.00/2,000		
NJM2594V-TE1CT-ND	Double Balanced Modulation/Demodulation	8-SSOP	2.94	2.45	1.96
NJM2594V-TE1TR-ND	Double Balanced Modulation/Demodulation	8-SSOP	3430.00/2,000		
NJM2606AD-ND	Low Voltage DC Motor Controller	8-Dip	.69	.58	.46
NJM2611D-ND	Servo Motor Controller	16-Dip	1.77	1.48	1.18
NJM2611M-ND	Servo Motor Controller	16-DMP	2.10	1.75	1.40
NJM2624AD-ND	Brushless DC Motor Pre-Driver	16-Dip	1.77	1.48	1.18
NJM2624AM-ND	Brushless DC Motor Pre-Driver	16-DMP	1.77	1.48	1.18
NJM2750M-ND	4-Input, 1-Output Stereo Audio Selector	16-DMP	1.47	1.23	.98
NJM2761RB2-TE1CT-ND	Audio Limiter for Speaker Protection	10-TVSP	1.50	1.25	1.00
NJM2761RB2-TE1TR-ND	Audio Limiter for Speaker Protection	10-TVSP	1750.00/2,000		
NJM3357D-ND	Low Power Narrow Band FM IF	16-Dip	1.44	1.20	.96
NJM3357M-ND	Low Power Narrow Band FM IF	16-DMP	1.44	1.20	.96
NJM3524D-ND	Switching Regulator Control Circuit	16-Dip	1.17	.98	.78
NJM3524M-ND	Switching Regulator Control Circuit	16-DMP	1.17	.98	.78
NJM4151D-ND	Voltage-to-Frequency/Frequency-to-Voltage Converter	8-Dip	2.31	1.93	1.54
NJM#4151D-ND	Voltage-to-Frequency/Frequency-to-Voltage Converter*	8-Dip	2.37	1.98	1.58
NJM#7805FA-ND	5V, 1A Positive Volt. Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM#7806FA-ND	6V, 1A Positive Volt. Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM#7808FA-ND	8V, 1A Positive Volt. Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM#7809FA-ND	9V, 1A Positive Volt. Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM7812FA-ND	12V, 1A Positive Volt. Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM#7812FA-ND	12V, 1A Positive Volt. Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM7815FA-ND	15V, 1A Positive Volt. Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM#7815FA-ND	15V, 1A Positive Volt. Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM7818FA-ND	18V, 1A Positive Volt. Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM#7818FA-ND	18V, 1A Positive Volt. Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM7820FA-ND	20V, 1A Positive Volt. Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM#7820FA-ND	20V, 1A Positive Volt. Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJM7824FA-ND	24V, 1A Positive Volt. Regulator with Isolated Tab	TO-220F	.60	.50	.40
NJM#7824FA-ND	24V, 1A Positive Volt. Regulator with Isolated Tab*	TO-220F	.60	.50	.40
NJU3711D-ND	8-Bit Serial to Parallel Converter	14-Dip	1.17	.98	.78
NJU3712D-ND	8-Bit, 25mA, Serial to Parallel Output Expander	16-Dip	1.80	1.50	1.20
NJU3712M-ND	8-Bit, 25mA, Serial to Parallel Output Expander	16-SOIC	1.68	1.40	1.12
NJU#3712M-ND	8-Bit, 25mA, Serial to Parallel Output Expander*	16-SOIC	1.71	1.43	1.14
NJU3715G-ND	16-Bit Serial to Parallel Converter	22-SOP	2.52	2.10	1.68
NJU3716L-ND	16-Bit, 25mA, Serial to Parallel Output Expander	24-SDip	2.07	1.73	1.38
NJU3716M-ND	16-Bit, 25mA, Serial to Parallel Output Expander	24-SOIC	2.07	1.73	1.38
NJU#3716M-ND	16-Bit, 25mA, Serial to Parallel Output Expander*	24-SOIC	2.10	1.75	1.40
NJU6355ED-ND	Serial In/Out Real Time Clock	8-Dip	1.74	1.45	1.16
NJU#6355ED-ND	Serial In/Out Real Time Clock*	8-Dip	1.77	1.48	1.18
NJU#39610D2-ND	Microstepping Motor Controller with Dual DAC*	22-Dip	8.58	7.15	5.72
NJU#39610FM2-ND	Microstepping Motor Controller with Dual DAC*	28-PLCC	8.58	7.15	5.72
NJW1150M-ND	6-Channel Electronic Volume	30-SDMP	5.88	4.90	3.92
NJW1151M-ND	6-Channel Electronic Volume	30-SDMP	8.40	7.00	5.60
NJW1503AV-TE1CT-ND	PLL Synthesizer with 3-Wire Bus for TV Tuner	16-SSOP	2.52	2.10	1.68
NJW1503AV-TE1TR-ND	PLL Synthesizer with 3-Wire Bus for TV Tuner	16-SSOP	2940.00/2,000		
NJW1504V-TE1CT-ND	PLL Synthesizer with I2C Bus for TV Tuner	16-SSOP	2.52	2.10	1.68
NJW1508V-TE1CT-ND	PLL Synthesizer with I2C Bus for TV Tuner	16-SSOP	1.77	1.48	1.18
NJW1508V-TE1TR-ND	PLL Synthesizer with I2C Bus for TV Tuner	16-SSOP	2065.00/2,000		

** RoHS Compliant*

JRC / NJR Corporation SWITCHES

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
NJG1505R-TE1CT-ND	SPDT Switch, GaAs MMIC	8-VSP	1.89	1.58	1.26
NJG1505R-TE1TR-ND	SPDT Switch, GaAs MMIC	8-VSP	2205.00/2,000		
NJG#1505R-TE1CT-ND	SPDT Switch, GaAs MMIC*	8-VSP	1.89	1.58	1.26
NJG#1505R-TE1TR-ND	SPDT Switch, GaAs MMIC*	8-VSP	2240.00/2,000		
NJG1506R-TE2CT-ND	SPDT Switch, GaAs MMIC	8-VSP	1.47	1.23	.98
NJG1506R-TE2TR-ND	SPDT Switch, GaAs MMIC	8-VSP	1715.00/2,000		
NJG1507R-TE1CT-ND	SPDT Switch, GaAs MMIC	8-VSP	1.17	.98	.78
NJG1507R-TE1TR-ND	SPDT Switch, GaAs MMIC	8-VSP	1365.00/2,000		
NJG1512V-TE1CT-ND	SPDT Switch, GaAs MMIC	14-SSOP	2.28	1.90	1.52
NJG1512V-TE1TR-ND	SPDT Switch, GaAs MMIC	14-SSOP	2660.00/2,000		
NJG1516R-TE1CT-ND	SPDT Switch, GaAs MMIC	8-VSP	2.10	1.75	1.40
NJG1516R-TE1TR-ND	SPDT Switch, GaAs MMIC	8-VSP	2450.00/2,000		
NJG1519KC1-TE3CT-ND	SP4T Switch, GaAs MMIC	10-FLP	2.73	2.28	1.82
NJG1519KC1-TE3TR-ND	SP4T Switch, GaAs MMIC	10-FLP	4777.50/3,000		
NJG1522KB2-TE1CT-ND	SPDT Switch, GaAs MMIC	6-FLP	1.26	1.05	.84
NJG1522KB2-TE1TR-ND	SPDT Switch, GaAs MMIC	6-FLP	2205.00/3,000		
NJG1524APC1-TE1CT-ND	DPDT Switch, GaAs MMIC	16-FFP	2.94	2.45	1.96
NJG1524APC1-TE1TR-ND	DPDT Switch, GaAs MMIC	16-FFP	6860.00/4,000		
NJG1528KC1-TE3CT-ND	DPDT Switch, GaAs MMIC	10-FLP	3.48	2.90	2.32
NJG1528KC1-TE3TR-ND	DPDT Switch, GaAs MMIC	10-FLP	6090.00/3,000		
NJG#1532KB2-TE2CT-ND	SPDT Switch, GaAs MMIC*	6-FLP	1.26	1.05	.84
NJG#1532KB2-TE2TR-ND	SPDT Switch, GaAs MMIC*	6-FLP	2259.00/3,000		
NJG1544HC3-TE1CT-ND	2x2 Antenna Switch GaAs MMIC	10-USB	1.47	1.23	.98
NJG1544HC3-TE1TR-ND	2x2 Antenna Switch GaAs MMIC	10-USB	2572.50/3,000		
NJG1602HE3-TE1CT-ND	DPDT Switch, GaAs MMIC	12-USB	2.31	1.93	1.54
NJG1602HE3-TE1TR-ND	DPDT Switch, GaAs MMIC	12-USB	4042.50/3,000		
NJG1617K11-TE1CT-ND	Wireless LAN DPDT GaAs MMIC Switch	12-QFN	1.38	1.15	.92
NJM2233BD-ND	2-Input Single Video Switch	8-Dip	.42	.35	.28
NJM2234D-ND	3-Input Video Switch	8-Dip	.51	.43	.34
NJM#2234M-ND	3-Input Video Switch*	8-DMP	.36	.30	.24
NJM2244D-ND	3-Input Video Switch	8-Dip	.48	.40	.32
NJM2244M-ND	3-Input Video Switch	8-DMP	.39	.33	.26
NJM#2244M-ND	3-Input Video Switch*	8-DMP	.42	.35	.28
NJM2246M-ND	3-Input Video Switch with 6dB Amp	8-DMP	.45	.38	.30
NJM2249D-ND	3-Input Video Switch	8-Dip	1.05	.88	.70
NJM2249M-ND	3-Input Video Switch	8-DMP	1.05	.88	.70
NJM#2279D-ND	3-Input, 2-Output Video Switch for AV-Set*	14-Dip	1.50	1.25	1.00
NJM2283D-ND	2-Input, 3-Channel Video Switch	16-Dip	1.50	1.25	1.00
NJM2283M-ND	2-Input, 3-Channel Video Switch	16-DMP	1.35	1.13	.90
NJM2284V-TE1CT-ND	2-Input, 3-Channel Video Switch	16-SSOP	1.14	.95	.76
NJM2284V-TE1TR-ND	2-Input, 3-Channel Video Switch	16-SSOP	1330.00/2,000		
NJM2285M-ND	2-Input, 3-Channel Video Switch	16-DMP	1.17	.98	.78
NJM2285V-TE2CT-ND	2-Input, 3-Channel Video Switch	16-SSOP	1.17	.98	.78
NJM2285V-TE2TR-ND	2-Input, 3-Channel Video Switch	16-SSOP	1365.00/2,000		
NJM2286D-ND	2-Input, 3-Channel Video Switch	16-Dip	1.50	1.25	1.00
NJM#2286V-TE1CT-ND	2-Input, 3-Channel Video Switch*	16-SSOP	.90	.75	.60
NJM#2286V-TE1TR-ND	2-Input, 3-Channel Video Switch*	16-SSOP	1086.00/2,000		
NJM2296D-ND	5-Input, 3-Output Video Switch	16-Dip	2.19	1.83	1.46
NJM2296M-ND	5-Input, 3-Output Video Switch	16-DMP	1.98	1.65	1.32
NJM2506M-ND	3-Input, 2-Input Video Switch	16-DMP	1.08	.90	.72
NJM2508M-ND	3-Input, 2-Input Video Switch	16-DMP	1.26	1.05	.84
NJM2513M-ND	3-Input, 2-Input Video Switch	16-DMP	1.35	1.13	.90
NJM2520D-ND	2-Input, 1-Output Audio Switch	8-Dip	.45	.38	.30
NJM2520M-ND	2-Input, 1-Output Audio Switch	8-DMP	.48	.40	.32
NJM2521D-ND	3-Input, 1-Output Audio Switch	8-Dip	.66	.55	.44
NJM2521M-ND	3-Input, 1-Output Audio Switch	8-DMP	.66	.55	.44
NJM2533D-ND	2-Input, 1-Output Video Switch	8-Dip	.51	.43	.34
NJM2533M-ND	2-Input, 1-Output Video Switch	8-DMP	.51	.43	.34
NJM2534D-ND	3-Input, 1-Output Video Switch	8-Dip	.66	.55	.44
NJM2534M-ND	3-Input, 1-Output Video Switch	8-DMP	.66	.55	.44
NJM2535D-ND	3-Input, 1-Output Video Switch	8-Dip	.66	.55	.44
NJM2535M-ND	3-Input, 1-Output Video Switch	8-DMP	.66	.55	.44
NJM2536AM-ND	RF Modulator for VHF Band	14-DMP	1.05	.88	.70
NJM2537V-TE1CT-ND	FM IF IC for Pagers	20-SSOP	2.70	2.25	1.80
NJM2537V-TE1TR-ND	FM IF IC for Pagers	20-SSOP	3150.00/2,000		
NJM2542V-TE1CT-ND	VIF/SIF Demodulator	20-SSOP	1.77	1.48	1.18
NJM2542V-TE1TR-ND	VIF/SIF Demodulator	20-SSOP	2065.00/2,000		
NJM2584D-ND	Wideband 3-Circuits Video Switch	16-Dip	1.68	1.40	1.12
NJM2584M-ND	Wideband 3-Circuits Video Switch	16-DMP	1.38	1.15	.92
NJM2595M-ND	5-Input, 3-Output Video Switch	16-DMP	1.77	1.48	1.18
NJM2596M-ND	5-Input, 3-Output Video Switch for S2	24-DMP	3.36	2.80	2.24
NJM2670D2-ND	Dual H-Bridge Driver	22-Dip	4.83	4.03	3.22
NJM#2670D2-ND	Dual H-Bridge Driver*	22-Dip	4.92	4.10	3.28
NJM#2670E3-ND	Dual H-Bridge Driver*	24-EMP	4.92	4.10	3.28
NJM#2902M-ND	Quad Single Supply Op Amp*	14-DMP	1.11	.93	.74
NJM#2902N-ND	Quad Single Supply Op Amp*	14-Dip	.75	.63	.50
NJM3359D-ND	Low Power Narrow Band FM IF	18-Dip	1.47	1.23	.98
NJM#3403AD-ND	Single Supply Quad Op Amp*	14-Dip	.99	.83	.66
NJM3403AM-ND	Single Supply Quad Op Amp	14-DMP	.96	.80	.64
NJM#3404AD-ND	Single Supply Dual Op Amp*	8-Dip	.51	.43	.34
NJM3404AM-ND	Single Supply Dual Op Amp	8-DMP	.54	.45	.36
NJU#201AM-ND	CMOS Quad SPST Analog Switch*	16-DMP	1.32	1.10	.88
NJU211D-ND	CMOS Quad SPST Analog Switch	16-Dip	1.38	1.15	.92
NJU211M-ND	CMOS Quad SPST Analog Switch	16-DMP	1.17	.98	.78
NJU4066BD-ND	CMOS Quad Analog Switch	14-Dip	.63	.53	.42
NJU4066BM-ND	CMOS Quad Analog Switch	14-DMP	.72	.60	.48
NJU7301D-ND	CMOS Quad SPST Analog Switch	16-Dip	2.73	2.28	1.82
NJU7301M-ND	CMOS Quad SPST Analog Switch	16-DMP	1.44	1.20	.96
NJU7311AM-ND	Analog Function Switch	30-DMP	3.36	2.80	2.24
NJU7312AM-ND	Analog Function Switch	30-DMP	2.34	1.95	1.56
NJU7313AM-ND	Analog Function Switch	30-DMP	3.09	2.58	2.06
NJU7600RB1-TE1CT-ND	High Speed, Low Voltage Op Switching Regulator	8-TVSP	1.26	1.05	.84
NJU7600RB1-TE1TR-ND	High Speed, Low Voltage Op Switching Regulator	8-TVSP	1470.00/2,000		
NJU7660M-ND	Voltage Converter	8-DMP	.54	.45	.36

** RoHS Compliant*

SHARP MICROELECTRONICS LDO REGULATORS

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★		
				1	25	100
PQ1K253M2ZP	425-1643-1-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K253M2ZP	425-1643-2-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1K303M2ZP	425-1644-1-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K303M2ZP	425-1644-2-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1K333M2ZP	425-1645-1-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K333M2ZP	425-1645-2-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1K503M2ZP	425-1650-1-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	.72	.52	.32
PQ1K503M2ZP	425-1650-2-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23L	1120.00/5,000		
PQ1L253M2SP	425-1651-1-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	.68	.49	.30
PQ1L253M2SP	425-1651-2-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	210.00/1,000		
PQ1L303M2SP	425-1652-1-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	.68	.49	.30
PQ1L303M2SP	425-1652-2-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	210.00/1,000		
PQ1L333M2SP	425-1653-1-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	.68	.49	.30
PQ1L333M2SP	425-1653-2-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	210.00/1,000		
PQ1L503M2SP	425-1654-1-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	.68	.49	.30
PQ1L503M2SP	425-1654-2-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-89	210.00/1,000		
PQ1R18	425-1655-1-ND	1.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.90	.65	.40
PQ1R18	425-1655-2-ND	1.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1400.00/5,000		
PQ1R23	425-1656-1-ND	2.3V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.90	.65	.40
PQ1R23	425-1656-2-ND	2.3V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1400.00/5,000		
PQ1R25	425-1657-1-ND	2.5V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R25	425-1657-2-ND	2.5V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R27	425-1658-1-ND	2.7V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R27	425-1658-2-ND	2.7V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R28	425-1659-1-ND	2.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R28	425-1659-2-ND	2.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R30	425-1660-1-ND	3.0V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R30	425-1660-2-ND	3.0V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R33	425-1661-1-ND	3.3V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R33	425-1661-2-ND	3.3V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R38	425-1662-1-ND	3.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R38	425-1662-2-ND	3.8V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1R47	425-1664-1-ND	4.7V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.98	.77	.51
PQ1R47	425-1664-2-ND	4.7V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1820.00/5,000		
PQ1R50	425-1665-1-ND	5.0V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	.95	.69	.42
PQ1R50	425-1665-2-ND	5.0V, 240mA, LDO Reg. with ON/OFF Control	SOT-23L	1470.00/5,000		
PQ1T251M2ZP	425-1670-2-ND	2.5V, 400mA, LDO Reg. with ON/OFF Control	SOT-23-5	1014.00/3,000		
PQ1T301M2ZP	425-1674-1-ND	3.0V, 400mA, LDO Reg. with ON/OFF Control	SOT-23-5	.91	.72	.47
PQ1T501M2ZP	425-1686-1-ND	5.0V, 400mA, LDO Reg. with ON/OFF Control	SOT-23-5	.91	.72	.47
PQ1U181M2ZP	425-1688-1-ND	1.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U181M2ZP	425-1688-2-ND	1.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U251M2ZP	425-1692-1-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U251M2ZP	425-1692-2-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U281M2ZP	425-1694-1-ND	2.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U281M2ZP	425-1694-2-ND	2.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U301M2ZP	425-1696-1-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U301M2ZP	425-1696-2-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U351M2ZP	425-1701-1-ND	3.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36
PQ1U351M2ZP	425-1701-2-ND	3.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1U501M2ZP	425-1708-1-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.81	.59	.36

(Continued)

SHARP MICROELECTRONICS

LDO REGULATORS *(Continued)*

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PQ1U501M2ZP	425-1708-2-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	756.00/3,000		
PQ1X251M2ZP	425-1710-1-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X251M2ZP	425-1710-2-ND	2.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X281M2ZP	425-1711-1-ND	2.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X281M2ZP	425-1711-2-ND	2.8V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X291M2ZP	425-1712-1-ND	2.9V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X291M2ZP	425-1712-2-ND	2.9V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X301M2ZP	425-1713-1-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X301M2ZP	425-1713-2-ND	3.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X331M2ZP	425-1714-1-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X331M2ZP	425-1714-2-ND	3.3V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X451M2ZP	425-1719-1-ND	4.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X451M2ZP	425-1719-2-ND	4.5V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ1X501M2ZP	425-1720-1-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	.68	.49	.30
PQ1X501M2ZP	425-1720-2-ND	5.0V, 300mA, LDO Reg. with ON/OFF Control	SOT-23-5	630.00/3,000		
PQ3DZ13U	425-1728-1-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.74
PQ3DZ13U	425-1728-2-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1599.00/3,000		
PQ3DZ53	425-1729-5-ND	3.3V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ3DZ53U	425-1729-2-ND	3.3V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1599.00/3,000		
PQ3RD13	425-1732-5-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ3RD13B	425-1733-5-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	TO-220†	1.51	1.19	.86
PQ3RD23	425-1734-5-ND	3.3V, 2.0A, LDO Reg. with ON/OFF Control	TO-220	1.71	1.43	1.00
PQ3RD083	425-1731-5-ND	3.3V, 0.8A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ3RF33	425-1735-5-ND	3.3V, 3.5A, LDO Reg. with ON/OFF Control	TO-220	2.83	1.88	1.53
PQ3TR5M3BZZ	425-1738-5-ND	3.3V, 0.5A, LDO Reg. with Reset at 4.3V	SC-63	1.33	1.05	.76
PQ3TR5M4AZZ	425-1741-5-ND	3.3V, 0.5A, LDO Reg. with Reset	SC-63	1.33	1.05	.76
PQ5EV3	425-1742-5-ND	Adj., 3.5A, LDO Reg. with ON/OFF Control	TO-220	2.85	2.38	1.67
PQ5EV5	425-1743-5-ND	Adj., 5.0A, LDO Reg. with ON/OFF Control	TO-220	2.55	1.70	1.38
PQ5EV7	425-1744-5-ND	Adj., 7.5A, LDO Reg. with ON/OFF Control	TO-220	2.85	1.90	1.54
PQ5RS1A	425-1745-5-ND	5V, 0.15A, LDO Reg. with Reset at 4.7	TO-220	1.30	1.02	.74
PQ6RD083	425-1752-5-ND	6.3V, 0.8A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ6RD83B	425-1753-5-ND	6.3V, 0.8A, LDO Reg. with ON/OFF Control	TO-220†	1.44	1.13	.82
PQ7DV5	425-1756-5-ND	Adj., 5A, LDO Reg. with ON/OFF Control	TO-3P	5.10	3.39	2.76
PQ7DV10	425-1754-5-ND	Adj., 10A, LDO Reg. with ON/OFF Control	TO-3P	7.75	5.15	4.19
PQ7RV4	425-1757-5-ND	Adj., 4.6A, LDO Regulator	TO-220	3.40	2.26	1.84
PQ05DZ11	425-1589-5-ND	5.0V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ05RA1	425-1591-5-ND	5.0V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.77	1.48	1.04
PQ05RA11	425-1592-5-ND	5.0V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.95	1.63	1.14
PQ05RD08	425-1593-5-ND	5.0V, 0.8A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ05RD11	425-1594-5-ND	5.0V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.54	1.21	.88
PQ05RD1B	425-1595-5-ND	5.0V, 1.0A, LDO Reg. with ON/OFF Control	TO-220†	1.44	1.13	.82
PQ05RD21	425-1596-5-ND	5.0V, 2.0A, LDO Reg. with ON/OFF Control	TO-220	1.71	1.43	1.00
PQ05RR12	425-1599-5-ND	5.0V, 1.0A, LDO Reg. with Reset, 5%	TO-220	2.04	1.70	1.19
PQ05RR13	425-1600-5-ND	5.0V, 1.0A, LDO Reg. with Reset, 2.5%	TO-220	2.13	1.78	1.25
PQ05VY3H3ZZ	425-1602-5-ND	5.0V, 3.5A, LDO Reg. with ON/OFF Control	TO-263	2.88	2.40	1.68
PQ05VY053ZZ	425-1601-5-ND	5.0V, 5.0A, LDO Reg. with ON/OFF Control	TO-263	2.55	1.70	1.38
PQ07RX11	425-1609-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.53	1.28	.90
PQ07VR5MAZZ	425-1610-5-ND	Adj., 0.5A, LDO Reg. with Reset @ 4.2V	SC-63	1.26	.99	.72
PQ07VZ012ZZ	425-1614-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.72	1.35	.98
PQ09DZ11	425-1616-5-ND	9V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ09DZ1U	425-1616-2-ND	9V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1599.00/3,000		
PQ09DZ51	425-1617-5-ND	9V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ09DZ51	425-1617-2-ND	9V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1482.00/3,000		
PQ09RA1	425-1618-5-ND	9V, 1.0A, LDO Reg. with ON/OFF Control, 5%	TO-220	1.77	1.48	1.04
PQ09RA11	425-1619-5-ND	9V, 1.0A, LDO Reg. with ON/OFF Control, 2.5%	TO-220	1.95	1.63	1.14
PQ09RD08	425-1620-5-ND	9V, 0.8A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ09RD11	425-1621-5-ND	9V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.58	1.24	.90
PQ09RD1B	425-1622-5-ND	9V, 1.0A, LDO Reg. with ON/OFF Control	TO-220†	1.47	1.16	.84
PQ09RD21	425-1623-5-ND	9V, 2.0A, LDO Reg. with ON/OFF Control	TO-220	1.71	1.43	1.00
PQ12DZ11	425-1624-5-ND	12V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ12DZ11	425-1624-2-ND	12V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1638.00/3,000		
PQ12DZ51	425-1625-5-ND	12V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.44	1.13	.82
PQ12DZ51	425-1625-2-ND	12V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1443.00/3,000		
PQ12RA1	425-1626-5-ND	12V, 1.0A, LDO Reg. with ON/OFF Control, 5%	TO-220	1.77	1.48	1.04
PQ12RA11	425-1627-5-ND	12V, 1.0A, LDO Reg. with ON/OFF Control, 2.5%	TO-220	1.95	1.63	1.14
PQ12RD8S	425-1632-5-ND	12V, 0.8A, LDO Reg. with ON/OFF Control	TO-220†	1.12	.88	.64
PQ12RD08	425-1628-5-ND	12V, 0.8A, LDO Reg. with ON/OFF Control	TO-220	1.40	1.10	.80
PQ12RD11	425-1629-5-ND	12V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.54	1.21	.88
PQ12RD1B	425-1630-5-ND	12V, 1.0A, LDO Reg. with ON/OFF Control	TO-220†	1.75	1.38	1.00
PQ12RD21	425-1631-5-ND	12V, 2.0A, LDO Reg. with ON/OFF Control	TO-220	1.71	1.43	1.00
PQ15RF15	425-1633-5-ND	15V, 1.0A, LDO Reg. with ON/OFF Control, 5%	TO-220	1.92	1.60	1.12
PQ15RF1G	425-1635-5-ND	15V, 1.0A, LDO Reg. with ON/OFF Control	TO-220†	2.16	1.80	1.26
PQ15RF2	425-1636-5-ND	15V, 2.0A, LDO Reg. with ON/OFF Control	TO-220	2.25	1.88	1.32
PQ15RW08	425-1638-5-ND	Adj., 0.8A, LDO Regulator	TO-220	1.40	1.10	.80
PQ15RW11	425-1639-5-ND	Adj., 1.0A, LDO Regulator	TO-220	1.40	1.10	.80
PQ15RW1B	425-1640-5-ND	Adj., 1.0A, LDO Regulator	TO-220†	1.58	1.24	.90
PQ15RW21	425-1641-5-ND	Adj., 2.0A, LDO Regulator	TO-220	1.74	1.45	1.02
PQ010FZ5MZZ	425-1551-5-ND	1.0V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.16	.91	.66
PQ010FZ01ZZ	425-1550-5-ND	1.0V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.30	1.02	.74
PQ012FZ01ZZ	425-1552-5-ND	1.2V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.30	1.02	.74
PQ015EF01SZ	425-1554-5-ND	1.5V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.12	.88	.64
PQ015EH01ZZ	425-1555-5-ND	1.5V, 1.0A, LDO Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ015EH02ZZ	425-1556-5-ND	1.5V, 2.0A, LDO Reg. with ON/OFF Control	TO-263	1.59	1.33	.93
PQ015EZ01ZZ	425-1557-5-ND	1.5V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ015EZ1HZZ	425-1558-5-ND	1.5V, 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ015EZ5MZZ	425-1559-5-ND	1.5V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ015Y3H3ZZ	425-1561-5-ND	1.5V, 3.5A, LDO Reg. with ON/OFF Control	SC-63	2.85	2.38	1.67
PQ015YZ01ZZ	425-1562-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.30	1.02	.74
PQ015YZ5MZZ	425-1563-5-ND	1.5V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.16	.91	.66
PQ018EF01SZ	425-1564-5-ND	1.8V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.12	.88	.64
PQ018EH01ZZ	425-1565-5-ND	1.8V, 1.0A, LDO Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ018EH02ZZ	425-1566-5-ND	1.8V, 2.0A, LDO Reg. with ON/OFF Control	TO-263	1.59	1.33	.93
PQ018EZ1HZZ	425-1568-5-ND	1.8V, 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ018EZ5MZZ	425-1569-5-ND	1.8V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ018EZ01ZZ	425-1567-5-ND	1.8V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ025EF01SZ	425-1570-5-ND	2.5V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.12	.88	.64
PQ025EH01ZZ	425-1571-5-ND	2.5V, 1.0A, LDO Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ025EH02ZZ	425-1572-5-ND	2.5V, 2.0A, LDO Reg. with ON/OFF Control	TO-263	1.59	1.33	.93
PQ025EZ1HZZ	425-1574-5-ND	2.5V, 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ025EZ5MZZ	425-1575-5-ND	2.5V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ025EZ01ZZ	425-1573-5-ND	2.5V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ025Y3H3ZZ	425-1577-5-ND	2.5V, 3.5A, LDO Reg. with ON/OFF Control	SC-63	2.85	2.38	1.67
PQ030EZ01ZZ	425-1578-5-ND	3.0V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ030EZ1HZZ	425-1579-5-ND	3.0V, 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ030EZ5MZZ	425-1580-5-ND	3.0V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ033EF01SZ	425-1581-5-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.12	.88	.64
PQ033EZ01ZZ	425-1583-5-ND	3.3V, 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ033EZ1HZZ	425-1584-5-ND	3.3V, 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ033EZ5MZZ	425-1585-5-ND	3.3V, 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ033Y3H3ZZ	425-1587-5-ND	3.3V, 3.5A, LDO Reg. with ON/OFF Control	SC-63	2.85	2.38	1.67
PQ033Y053ZZ	425-1586-5-ND	3.3V, 5.0A, LDO Reg. with ON/OFF Control	SC-63	2.55	1.70	1.38
PQ070XH01ZZ	425-1604-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	TO-263	1.47	1.16	.84
PQ070XZ1HZZ	425-1607-5-ND	Adj., 1.5A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.32	.96
PQ070XZ01ZZ	425-1606-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	SC-63	1.47	1.16	.84
PQ070XZ5MZZ	425-1608-5-ND	Adj., 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ20RX05	425-1721-5-ND	Adj., 0.5A, LDO Reg. with ON/OFF Control	TO-220	1.61	1.27	.92
PQ20RX11	425-1722-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.68	1.32	.96
PQ20WZ1U	425-1723-2-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	SC-63	1599.00/3,000		
PQ20WZ51	425-1724-5-ND	Adj., 0.5A, LDO Reg. with ON/OFF Control	SC-63	1.40	1.10	.80
PQ20WZ5U	425-1724-2-ND	Adj., 0.5A, LDO Reg. with ON/OFF Control	SC-63	1443.00/3,000		
PQ25VB012FZ	425-1725-5-ND	Adj., 1.0A, LDO Reg. with ON/OFF Control	TO-220	1.77	1.48	1.04
PQ25VB8M2FZ	425-1726-5-ND	Adj., 0.8A, LDO Reg. with ON/OFF Control	SC-63	1.68	1.40	.98

† Lead Form

SHARP MICROELECTRONICS

CHOPPER REGULATORS

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PQ1CG2032FZ	425-1759-5-ND	Adj., 3.5A, Chopper Regulator with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ1CG2032RZ	425-1760-5-ND	Adj., 3.5A, Chopper Regulator with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ1CG21H2FZ	425-1761-5-ND	Adj., 1.5A, Chopper Regulator with ON/OFF Control	TO-220	2.04	1.70	1.19
PQ1CG21H2RZ	425-1762-5-ND	Adj., 1.5A, Chopper Regulator with ON/OFF Control	TO-220	1.92	1.60	1.12
PQ1CG38M2FZ	425-1765-5-ND	Adj., 0.8A, Chopper Regulator with ON/OFF Control	TO-220	1.65	1.38	.97
PQ1CG38M2RZ	425-1766-5-ND	Adj., 0.8A, Chopper Regulator with ON/OFF Control	TO-220	1.65	1.38	.97
PQ1CG3032FZ	425-1763-5-ND	Adj., 3.5A, Chopper Regulator with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ1CG3032RZ	425-1764-5-ND	Adj., 3.5A, Chopper Regulator with ON/OFF Control	TO-220	2.28	1.90	1.33
PQ1CY1032ZZ	425-1767-5-ND	Adj., 3.5A, Chopper Regulator with ON/OFF Control	TO-263	2.52	2.10	1.47
PQ1CZ21H2ZZ	425-1768-5-ND	Adj., 1.5A, Chopper Regulator with ON/OFF Control	SC-63	2.43	2.03	1.42
PQ1CZ38M2ZZ	425-1769-5-ND	Adj., 0.8A, Chopper Regulator with ON/OFF Control	SC-63	1.72	1.35	.98
PQ2CF1	425-1770-5-ND	Adj., 2.5A, Chopper Regulator	TO-220	3.58	2.38	1.94

National Semiconductor™

UARTs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
PC16550DN-ND	UART	40-Dip	6.62	5.23	4.19
PC16550DV-ND	UART	44-PLCC	6.66	5.27	4.22
PC16552DV-ND	Dual UART	44-PLCC	8.51	6.73	5.39
PC16552DVXTR-ND	Dual UART	44-PLCC	2531.25/500		

National Semiconductor™

A/D AND D/A CONVERTERS

A/D Converters

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADC08L060CIMT-ND	8-Bit, 60 MSPS, A/D Converter	24-TSSOP	5.99	4.74	3.80
ADC10D020CIVS-ND	Dual 10-Bit, 20MSPS, 150mW A/D Converter	48-TQFP	9.47	7.49	6.00
ADC10D040CIVS-ND	Dual 10-Bit, 40MSPS, 267mW A/D Converter	48-TQFP	10.82	9.27	8.22
ADC11DL066CIVS-ND	Dual 11-Bit, 66MSPS, 450MHz Bandwidth ADC	64-TQFP	25.65	23.94	22.23
ADC11L066CIVY-ND	Dual 11-Bit, 66MSPS, 450MHz Bandwidth ADC*	32-LQFP	24.30	22.68	21.06
ADC12D040CIVS-ND	Dual 12-Bit, 40MSPS, A/D Converter	64-TQFP	18.60	17.36	16.12
ADC12DL040CIVS-ND	Dual 12-Bit, 40MSPS, 3V A/D Converter	64-TQFP	21.45	20.02	18.59
ADC12DL065CIVS-ND	Dual 12-Bit, 65MSPS, 3.3V 360mW ADC ***NEW!***	64-TQFP	24.30	22.68	21.06
ADC12DL066CIVS-ND	Dual 12-Bit, 66MSPS, 450MHz Input Bandwidth ADC	64-TQFP	27.15	25.34	23.53
ADC12H030CIWM-ND	12-Bit, A/D Converter, Configurable	16-SOIC	6.78	5.37	4.30
ADC12H038CIWM-ND	12-Bit, A/D Converter, 8-Channel	28-SOIC	6.97	5.52	4.42
ADC12L030CIWM-ND	3.3V, 12-Bit Serial I/O A/D Converter	16-SOIC	6.43	5.08	4.07
ADC12L038CIWM-ND	12-Bit, A/D Converter, 8-Channel	24-SOIC	6.62	5.23	4.19
ADC12L063CIVY-ND	12-Bit, 62MSPS, 354mW A/D Converter with Internal Sample and Hold	32-LQFP	22.95	21.42	19.89
ADC12L066CIVY-ND	12-Bit, 66MSPS, 450 Bandwidth A/D Converter with Internal Sample and Hold	32-LQFP	24.45	22.82	21.19
ADC12L080CIVY-ND	12-Bit, 80MSPS, 450MHz Bandwidth A/D Converter	32-LQFP	24.90	23.24	21.58
ADC14L020CIVY-ND	14-Bit, 20MSPS, 150mW A/D Converter ***NEW!***	32-LQFP	17.10	15.96	14.82
ADC14L040CIVY-ND	14-Bit, 40MSPS, 235mW A/D Converter*	32-LQFP	21.75	20.30	18.85
ADC78H89CIMT-ND	12-Bit, 7-Ch., 500KSPS, A/D Converter	16-TSSOP	4.28	3.25	2.48
ADC78H90CIMT-ND	12-Bit, 8-Ch., 500KSPS, A/D Converter	16-TSSOP	6.18	4.70	3.59
ADC081S021CIMFCT-ND	1-Channel, 200KSPS, 8-Bit A/D Converter ***NEW!***	SOT-23-6	2.28	1.70	1.26
ADC081S021CIMFTR-ND	1-Channel, 200KSPS, 8-Bit A/D Converter ***NEW!***	SOT-23-6	943.36/1,000		
ADC081S021CISDCT-ND	1-Channel, 200KSPS, 8-Bit A/D Converter*	6-LLP	2.29	1.70	1.26
ADC081S021CISDTR-ND	1-Channel, 200KSPS, 8-Bit A/D Converter*	6-LLP	947.20/1,000		
ADC081S051CIMFCT-ND	1-Channel, 500KSPS, 8-Bit A/D Converter ***NEW!***	SOT-23-6	2.82	2.10	1.55
ADC081S051CIMFTR-ND	1-Channel, 500KSPS, 8-Bit A/D Converter ***NEW!***	SOT-23-6	1164.80/1,000		
ADC081S051CISDCT-ND	1-Channel, 500KSPS, 8-Bit A/D Converter*	6-LLP	2.82	2.10	1.55
ADC081S051CISDTR-ND	1-Channel, 500KSPS, 8-Bit A/D Converter*	6-LLP	1164.80/1,000		
ADC081S101CIMFCT-ND	8-Bit, 1MSPS A/D Converter	SOT-23-6	2.75	2.09	1.60
ADC081S101CIMFTR-ND	8-Bit, 1MSPS A/D Converter	SOT-23-6	1386.00/1,000		
ADC081S101CISDCT-ND	8-Bit, 1MSPS A/D Converter	6-LLP	2.75	2.09	1.60
ADC081S101CISDTR-ND	8-Bit, 1MSPS A/D Converter	6-LLP	1386.00/1,000		
ADC082S021CIMMCT-ND	2-Channel, 200KSPS, 8-Bit A/D Converter*	8-MSOP	2.57	1.91	1.42
ADC082S021CIMMTR-ND	2-Channel, 200KSPS, 8-Bit A/D Converter*	8-MSOP	1062.40/1,000		
ADC082S051CIMMCT-ND	2-Channel, 500KSPS, 8-Bit A/D Converter*	8-MSOP	2.78	2.11	1.61
ADC082S051CIMMTR-ND	2-Channel, 500KSPS, 8-Bit A/D Converter*	8-MSOP	1398.60/1,000		
ADC082S101CIMMCT-ND	2-Channel, 1MSPS, 8-Bit A/D Converter*	8-MSOP	3.45	2.63	2.01
ADC082S101CIMMTR-ND	2-Channel, 1MSPS, 8-Bit A/D Converter*	8-MSOP	1738.80/1,000		

* ***RoHS Compliant***

(Continued)

National Semiconductor

A/D AND D/A CONVERTERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ADC084S021CIMMCT-ND	4-Channel, 200KSPS, 8-Bit A/D Converter*	10-MSOP	2.95	2.19	1.62
ADC084S021CIMMTR-ND	4-Channel, 200KSPS, 8-Bit A/D Converter*	10-MSOP	1216.00/1,000		
ADC084S051CIMMCT-ND	4-Channel, 500KSPS, 8-Bit A/D Converter*	10-MSOP	3.15	2.40	1.83
ADC084S051CIMMTR-ND	4-Channel, 500KSPS, 8-Bit A/D Converter*	10-MSOP	1587.60/1,000		
ADC084S101CIMMCT-ND	4-Channel, 1MSPS, 8-Bit A/D Converter*	10-MSOP	3.95	3.01	2.30
ADC084S101CIMMTR-ND	4-Channel, 1MSPS, 8-Bit A/D Converter*	10-MSOP	1990.80/1,000		
ADC088S022CIMT-ND	8-Channel, 50KSPS to 200KSPS, 8-Bit ADC ***NEW!***	16-TSSOP	3.13	2.38	1.82
ADC088S052CIMT-ND	8-Channel, 200KSPS to 500KSPS, 8-Bit ADC ***NEW!***	16-TSSOP	3.85	2.93	2.24
ADC088S102CIMT-ND	8-Channel, 500KSPS to 1MSPS, 8-Bit ADC ***NEW!***	16-TSSOP	4.75	3.61	2.76
ADC101S021CIMFCT-ND	1-Channel, 200KSPS, 10-Bit A/D Converter ***NEW!***	SOT-23-6	2.76	2.05	1.52
ADC101S021CIMFTR-ND	1-Channel, 200KSPS, 10-Bit A/D Converter ***NEW!***	SOT-23-6	1139.20/1,000		
ADC101S051CIMFCT-ND	1-Channel, 500KSPS, 10-Bit A/D Converter ***NEW!***	SOT-23-6	2.80	2.13	1.63
ADC101S051CIMFTR-ND	1-Channel, 500KSPS, 10-Bit A/D Converter ***NEW!***	SOT-23-6	1411.20/1,000		
ADC101S101CIMFCT-ND	10-Bit, 1MSPS, A/D Converter	SOT-23-6	3.38	2.57	1.96
ADC101S101CIMFTR-ND	10-Bit, 1MSPS, A/D Converter	SOT-23-6	1701.00/1,000		
ADC102S021CIMMCT-ND	10-Bit, 200KSPS, 2-Channel A/D Converter	8-MSOP	2.95	2.25	1.72
ADC102S021CIMMTR-ND	10-Bit, 200KSPS, 2-Channel A/D Converter	8-MSOP	1486.80/1,000		
ADC102S051CIMMCT-ND	10-Bit, 500KSPS, 2-Channel A/D Converter	8-MSOP	3.80	2.89	2.21
ADC102S051CIMMTR-ND	10-Bit, 500KSPS, 2-Channel A/D Converter	8-MSOP	1915.20/1,000		
ADC102S101CIMMCT-ND	10-Bit, 1MSPS, 2-Channel A/D Converter	8-MSOP	4.80	3.65	2.79
ADC102S101CIMMTR-ND	10-Bit, 1MSPS, 2-Channel A/D Converter	8-MSOP	2419.20/1,000		
ADC104S021CIMMCT-ND	10-Bit, 200KSPS, 4-Channel A/D Converter	10-MSOP	3.35	2.55	1.95
ADC104S021CIMMTR-ND	10-Bit, 200KSPS, 4-Channel A/D Converter	10-MSOP	1688.40/1,000		
ADC104S051CIMMCT-ND	10-Bit, 500KSPS, 4-Channel A/D Converter	10-MSOP	4.30	3.27	2.50
ADC104S051CIMMTR-ND	10-Bit, 500KSPS, 4-Channel A/D Converter	10-MSOP	2167.20/1,000		
ADC104S101CIMMCT-ND	10-Bit, 1MSPS, 4-Channel A/D Converter	10-MSOP	5.43	4.13	3.15
ADC104S101CIMMTR-ND	10-Bit, 1MSPS, 4-Channel A/D Converter	10-MSOP	2734.20/1,000		
ADC108S022CIMT-ND	8-Channel, 50KSPS to 200KSPS, 10-Bit ADC ***NEW!***	16-TSSOP	4.18	3.18	2.43
ADC108S052CIMT-ND	8-Channel, 200KSPS to 500KSPS, 10-Bit ADC ***NEW!***	16-TSSOP	5.18	3.94	3.01
ADC108S102CIMT-ND	8-Channel, 500KSPS to 1MSPS, 10-Bit ADC ***NEW!***	16-TSSOP	5.38	4.25	3.41
ADC121S021CIMFCT-ND	1-Channel, 200KSPS, 12-Bit A/D Converter ***NEW!***	SOT-23-6	2.78	2.11	1.61
ADC121S021CIMFTR-ND	1-Channel, 200KSPS, 12-Bit A/D Converter ***NEW!***	SOT-23-6	1398.60/1,000		
ADC121S051CIMFCT-ND	1-Channel, 500KSPS, 12-Bit A/D Converter ***NEW!***	SOT-23-6	3.60	2.74	2.09
ADC121S051CIMFTR-ND	1-Channel, 500KSPS, 12-Bit A/D Converter ***NEW!***	SOT-23-6	1814.40/1,000		
ADC121S101CIMFCT-ND	12-Bit, 1MSPS, 12-Bit A/D Converter	SOT-23-6	4.40	3.35	2.56
ADC121S101CIMFTR-ND	12-Bit, 1MSPS, 12-Bit A/D Converter	SOT-23-6	2217.60/1,000		
ADC121S625CIMMCT-ND	12-Bit, 50KSPS to 200KSPS A/D Converter*	8-MSOP	4.03	3.06	2.34
ADC121S625CIMMTR-ND	12-Bit, 50KSPS to 200KSPS A/D Converter*	8-MSOP	2028.60/1,000		
ADC122S021CIMMCT-ND	12-Bit, 200KSPS, 2-Channel A/D Converter	8-MSOP	3.70	2.82	2.15
ADC122S021CIMMTR-ND	12-Bit, 200KSPS, 2-Channel A/D Converter	8-MSOP	1864.80/1,000		
ADC122S051CIMMCT-ND	12-Bit, 500KSPS, 2-Channel A/D Converter	8-MSOP	4.75	3.61	2.76
ADC122S101CIMMCT-ND	12-Bit, 1MSPS, 2-Channel A/D Converter	8-MSOP	5.80	4.41	3.37
ADC122S101CIMMTR-ND	12-Bit, 1MSPS, 2-Channel A/D Converter	8-MSOP	2923.20/1,000		
ADC124S021CIMMCT-ND	12-Bit, 200KSPS, 4-Channel A/D Converter	10-MSOP	4.28	3.25	2.48
ADC124S021CIMMTR-ND	12-Bit, 200KSPS, 4-Channel A/D Converter	10-MSOP	2154.60/1,000		
ADC124S051CIMMCT-ND	12-Bit, 500KSPS, 4-Channel A/D Converter	10-MSOP	5.40	4.11	3.14
ADC124S051CIMMTR-ND	12-Bit, 500KSPS, 4-Channel A/D Converter	10-MSOP	2721.60/1,000		
ADC124S101CIMMCT-ND	12-Bit, 1MSPS, 4-Channel A/D Converter	10-MSOP	5.50	4.35	3.49
ADC124S101CIMMTR-ND	12-Bit, 1MSPS, 4-Channel A/D Converter	10-MSOP	3248.80/1,000		
ADC128S022CIMT-ND	8-Channel, 50KSPS to 200KSPS, 12-Bit ADC ***NEW!***	16-TSSOP	4.98	3.79	2.89
ADC128S052CIMT-ND	8-Channel, 200KSPS to 500KSPS, 12-Bit ADC ***NEW!***	16-TSSOP	6.18	4.70	3.59
ADC128S102CIMT-ND	8-Channel, 500KSPS to 1MSPS, 12-Bit ADC ***NEW!***	16-TSSOP	6.34	5.02	4.02
ADC0801LCN-ND	8-Bit, µP Compatible A/D Converters, 1/4 LSB	20-Dip	9.61	8.24	7.31
ADC0802LCN-ND	8-Bit, µP Compatible A/D Converters, 1/2 LSB	20-Dip	6.24	4.94	3.96
ADC0802LCWM-ND	8-Bit, Compatible A/D Converter, 1/2 LSB	20-SOIC	6.09	4.82	3.86
ADC0803LCN-ND	8-Bit, A/D Converter, 1/2 LSB	20-Dip	4.35	3.31	2.53
ADC0804LCN-ND	8-Bit, A/D Converter, 1 LSB	20-Dip	3.05	2.32	1.77
ADC0804LCWM-ND	8-Bit, A/D Converter, 1 LSB	20-SOIC	2.50	1.90	1.45
ADC0805LCN-ND	8-Bit, A/D Converter, 1 LSB	20-Dip	4.90	3.73	2.85
ADC0808CCN-ND	8-Bit, µP Compatible ADC with 8-Ch. Mux., 1/2 LSB	28-Dip	5.40	4.27	3.42
ADC0808CCV-ND	8-Bit, A/D Converter with 8-Channel Multiplexer, 1/2 LSB	28-PLCC	5.93	4.51	3.44
ADC0809CCN-ND	8-Bit, A/D Converter with 8-Channel Multiplexer, 1 LSB	28-Dip	4.20	3.20	2.44
ADC0809CCV-ND	8-Bit, A/D Converter with 8-Channel Multiplexer, 1 LSB	28-PLCC	6.05	4.60	3.51
ADC0816CCN-ND	8-Bit, A/D Converter with 16-Channel Multiplexer, 1/2 LSB	40-Dip	13.00	11.15	9.89
ADC0817CCN-ND	8-Bit, A/D Converter with 16-Channel Multiplexer, 1/2 LSB	40-Dip	9.11	7.21	5.78
ADC0820BCWM-ND	8-Bit, A/D Converter, 1/2 LSB	20-SOIC	5.85	4.45	3.40
ADC0820CCN-ND	8-Bit, High Speed MPU Compatible A/D Converter, 1 LSB	20-Dip	4.00	3.04	2.32
ADC0820CCWM-ND	8-Bit, High Speed A/D Converter, 1 LSB	20-SOIC	3.78	2.87	2.19
ADC0831CCN-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options	8-Dip	2.78	2.11	1.61
ADC0831CCWM-ND	8-Bit, Serial I/O A/D Converter with Multiplex Options	14-SOIC	2.73	2.08	1.59
ADC0832CCWM-ND	8-Bit, Serial I/O ADC with Multiplex Options, 2-Channel	14-SOIC	2.75	2.09	1.60
ADC0832CIWM-ND	8-Bit, Serial I/O ADC with Multiplex Options, 2-Channel	14-SOIC	2.78	2.11	1.61
ADC0834BCN-ND	8-Bit, Serial I/O ADC with Multiplex Options, 4-Channel	14-Dip	3.40	2.59	1.98
ADC0834CCWM-ND	8-Bit, Serial I/O ADC with Multiplex Options, 4-Channel	14-SOIC	3.13	2.38	1.82
ADC0838CCN-ND	8-Bit, Serial I/O ADC with Multiplex Options, 8-Channel	20-Dip	2.70	2.06	1.57
ADC0838CCWM-ND	8-Bit, Serial I/O ADC with Multiplex Options, 8-Channel	20-SOIC	2.70	2.06	1.57
ADC0844CCN-ND	8-Bit, A/D Converter, MPU Compatible 4-Channel	20-Dip	5.23	3.98	3.04
ADC0848BCV-ND	8-Bit, µP Compatible ADC with Mux. Options, 1/2 LSB	28-PLCC	9.05	7.16	5.74
ADC0848BCN-ND	8-Bit, µP Compatible ADC with Mux. Options, 1/2 LSB	24-Dip	6.05	4.79	3.84
ADC0848CCN-ND	8-Bit, µP Compatible ADC with Mux. Options, 1 LSB	24-Dip	5.78	4.39	3.35
ADC0848CCV-ND	8-Bit, µP Compatible ADC with Mux. Options, 1 LSB	28-PLCC	5.40	4.27	3.42
ADC1061CIN-ND	10-Bit, High Speed µP Compatible ADC with Track	20-Dip	5.80	4.59	3.68
ADC1173CIMTC-ND	8-Bit, 3V, 15MSPS, A/D Converter	24-TSSOP	2.98	2.27	1.73
ADC1251CIJ-ND	12-Bit, Self-Calibrating Plus Sign µP Compatible ADC	24-CDip	14.30	12.26	10.87
ADC08031CIWM-ND	8-Bit, A/D Converter Single Channel with Track and Hold	14-SOIC	5.45	4.15	3.17
ADC08060CIMT-ND	8-Bit, 20-60MSPS, 1.3mW/MSPS A/D Converter	24-TSSOP	4.05	3.08	2.35
ADC08062CIWM-ND	8-Bit, A/D Converter 2-Channel with S/H	20-SOIC	4.40	3.35	2.56
ADC08100CIMTC-ND	8-Bit, A/D Converter, 100MSPS, 1.3mW	24-TSSOP	8.63	6.83	5.47
ADC08200CIMT-ND	8-Bit, 20-200MSPS, 1.05mW MSPS A/D Converter	24-TSSOP	12.76	10.94	9.70
ADC08351CILQCT-ND	8-Bit, A/D Converter	24-LLP	4.78	3.63	2.77
ADC08351CILQTR-ND	8-Bit, A/D Converter	24-LLP	2406.60/1,000		
ADC08351CIMTC-ND	8-Bit, A/D Converter	20-TSSOP	4.55	3.46	2.64
ADC08831IM-ND	8-Bit, Serial I/O A/D Converter, 1-Input	8-SOIC	2.51	1.87	1.38
ADC08831IMMCT-ND	8-Bit, Serial I/O A/D Converter, 1-Input	8-MSOP	2.51	1.87	1.38
ADC08831IMMTR-ND	8-Bit, Serial I/O A/D Converter, 1-Input	8-MSOP	1036.80/1,000		
ADC08831IN-ND	8-Bit, Serial I/O A/D Converter, 1-Input	8-Dip	2.51	1.87	1.38
ADC08831IWM-ND	8-Bit, Serial I/O A/D Converter, 1-Input	14-SOIC	2.51	1.87	1.38
ADC08832IM-ND	8-Bit, Serial I/O A/D Converter, 2-Input	8-SOIC	2.51	1.87	1.38
ADC08832IMMCT-ND	8-Bit, Serial I/O A/D Converter, 2-Input	8-MSOP	2.51	1.87	1.38
ADC08832IMMTR-ND	8-Bit, Serial I/O A/D Converter, 2-Input	8-MSOP	1036.80/1,000		
ADC08832IN-ND	8-Bit, Serial I/O A/D Converter, 2-Input	8-Dip	2.51	1.87	1.38
ADC08832IWM-ND	8-Bit, Serial I/O A/D Converter	14-SOIC	2.51	1.87	1.38
ADC10030CIVT-ND	10-Bit, A/D Converter	32-LQFP	7.64	6.05	4.85
ADC10040CIMT-ND	10-Bit, A/D Converter	28-TSSOP	7.48	5.91	4.74
ADC10062CIWM-ND	10-Bit, A/D Converter	24-SOIC	6.24	4.94	3.96
ADC10065CIMT-ND	10-Bit, A/D Converter	28-TSSOP	8.32	6.58	5.27
ADC10080CIMT-ND	10-Bit, A/D Converter	28-TSSOP	8.99	7.11	5.70
ADC10158CIN-ND	10-Bit, Plus Sign 4µS ADC with 4 or 8-Channel Mux, Track	28-Dip	5.54	4.39	3.52
ADC10158CIWM-ND	10-Bit, Plus Sign 4µS ADC w/4 or 8-Channel Mux, Track	28-SOIC	5.82	4.60	3.69
ADC10321CIVT-ND	10-Bit, A/D Converter	32-LQFP	5.90	4.67	3.74
ADC10461CIWM-ND	10-Bit, A/D Converter	20-SOIC	6.07	4.80	3.85
ADC10464CIWM-ND	10-Bit, 600nS A/D Converter with Input Mux	28-SOIC	6.36	5.03	4.03
ADC10662CIWM-ND	10-Bit, 360nS A/D Converter with Input Mux	24-SOIC	5.75	4.37	3.34
ADC10664CIWM-ND	10-Bit, 360nS A/D Converter with Input Mux	28-SOIC	6.18	4.70	3.59
ADC10738CIWM-ND	10-Bit, Serial I/O A/D Converter	24-SOIC	5.10	3.88	2.96
ADC1175-50CIJM-ND	8-Bit, A/D Converter	24-SOIC	5.23	3.98	3.04
ADC1175-50CILQCT-ND	8-Bit, 50MSPS, A/D Converter	24-LLP	4.68	3.56	2.72
ADC1175-50CILQTR-ND	8-Bit, 50MSPS, A/D Converter	24-LLP	2356.20/1,000		
ADC1175-50CIMT-ND	8-Bit, 50MSPS, A/D Converter	24-SSOP	4.68	3.56	2.72
ADC12010CIVY-ND	12-Bit, 10MSPS, A/D Converter	32-LQFP	9.73	8.34	7.40
ADC12010EVAL-ND	Evaluation Board	—	295.50	—	—
ADC12020CIVY-ND	12-Bit, 20MSPS, A/D Converter	32-LQFP	14.25	12.21	10.83
ADC12020EVAL-ND	Evaluation Board	—	363.00	—	—
ADC12030CIWM-ND	12-Bit, Serial In/Out A/D Converter	16-SOIC	6.26	4.95	3.97
ADC12032CIWM-ND	12-Bit, A/D Converter	20-SOIC	6.26	4.95	3.97
ADC12034CIN-ND	12-Bit, A/D Converter	24-Dip	9.83	7.77	6.23
ADC12034CIWM-ND	12-Bit, A/D Converter	24-SOIC	6.51	5.15	4.13
ADC12038CIWM-ND	12-Bit, A/D Converter	28-SOIC	6.51	5.15	4.13
ADC12040CIVY-ND	12-Bit, 40MSPS, A/D Converter	32-LQFP	14.96	12.83	11.38
ADC12130CIN-ND	12-Bit, Self-Calibrating A/D Converter Plus Sign Serial I/O	16-Dip	6.78	5.37	4.30
ADC12138CIN-ND	12-Bit, Self-Calibrating A/D Converter Plus Sign Serial I/O	28-Dip	6.62	5.23	4.19
ADC12138CIWM-ND	12-Bit, Self-Calibrating A/D Converter Plus Sign Serial I/O	28-SOIC	6.62	5.23	4.19
ADCS7476AIMFCT-ND	12-Bit, 1MSPS, A/D Converter	SOT-23-6	4.40	3.35	2.56
ADCS7476AIMFTR-ND	12-Bit, 1MSPS, A/D Converter	SOT-23-6	2200.00/1,000		
ADCS7477AIMFCT-ND	10-Bit, 1MSPS, A/D Converter	SOT-23-6	3.38	2.57	1.96
ADCS7477AIMFTR-ND	10-Bit, 1MSPS, A/D Converter	SOT-23-6	1701.00/1,000		
ADCS7478AIMFCT-ND	8-Bit, 1MSPS, A/D Converter	SOT-23-6	2.75	2.09	1.60
ADCS7478AIMFTR-ND	8-Bit, 1MSPS, A/D Converter	SOT-23-6	1386.00/1,000		
ADCS9888CVH-140-ND	140MSPS Video Analog Front End	128-PQFP	14.14	12.12	10.75
ADCS9888CVH-170-ND	170MSPS Video Analog Front End	128-PQFP	16.20	15.12	14.04
ADCS9888CVH-205-ND	205MSPS Video Analog Front End	128-PQFP	22.65	21.14	19.63
ADCV08832CIM-ND	Low Voltage, 8-Bit Serial In/Out A/D Converter	8-SOIC	3.05	2.32	1.77
CLC5957MTD-ND	12-Bit, 70MSPS Broadband Mono ADC ***NEW!***	48-TSSOP	27.30	25.48	23.66

D/A Converters

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DAC081S101CIMKCT-ND	8-Bit DAC with Rail-to-Rail Output ***NEW!***	6-TSOT	2.79	2.07	1.53
DAC081S101CIMKTR-ND	8-Bit DAC with Rail-to-Rail Output ***NEW!***	6-TSOT	1152.00/1,000		
DAC081S101CIMMCT-ND	8-Bit DAC with Rail-to-Rail Output ***NEW!***	8-MSOP	2.36	1.75	1.30
DAC081S101CIMMTR-ND	8-Bit DAC with Rail-to-Rail Output ***NEW!***	8-MSOP	972.80/1,000		
DAC101S101CIMKCT-ND	10-Bit DAC with Rail-to-Rail Output ***NEW!***	6-TSOT	3.03	2.30	1.76
DAC101S101CIMKTR-ND	10-Bit DAC with Rail-to-Rail Output ***NEW!***	6-TSOT	1524.60/1,000		
DAC101S101CIMMCT-ND	10-Bit DAC with Rail-to-Rail Output ***NEW!***	8-MSOP	3.03	2.30	1.76
DAC101S101CIMMTR-ND	10-Bit DAC with Rail-to-Rail Output ***NEW!***	8-MSOP	1524.60/1,000		
DAC121S101CIMKCT-ND	12-Bit DAC with Rail-to-Rail Output ***NEW!***	6-TSOT	3.45	2.63	2.01
DAC121S101CIMKTR-ND	12-Bit DAC with Rail-to-Rail Output ***NEW!***	6-TSOT	1738.80/1,000		
DAC121S101CIMMCT-ND	12-Bit DAC with Rail-to-Rail Output ***NEW!***	8-MSOP	3.45	2.63	2.01
DAC121S101CIMMTR-ND	12-Bit DAC with Rail-to-Rail Output ***NEW!***	8-MSOP	1738.80/1,000		
DAC0800LCM-ND	8-Bit, D/A Converter	16-SOIC	1.65	1.21	.88
DAC0800LCMXTR-ND	8-Bit, D/A Converter	16-SOIC	1402.50/2,500		
DAC0800LCN-ND	8-Bit, D/A Converter 0.19% Linearity	16-Dip	1.63	1.22	.90
DAC0802LCM-ND	8-Bit, D/A Converter	16-SOIC	1.76	1.30	.94
DAC0802LCN-ND	8-Bit, D/A Converter	16-Dip	1.63	1.22	.90
DAC0808LCM-ND	8-Bit, D/A Converter	16-SOIC	1.64	1.22	.91
DAC0808LCN-ND	8-Bit, D/A Converter 0.19% Linearity	16-Dip	1.74	1.30	.96
DAC0830LCN-ND	8-Bit, µP Compatible Double Buffered D/A Converter	20-Dip	5.90	4.67	3.74
DAC0832LCN-ND	8-Bit, µP Compatible D/A Converter 0.20% Linearity	20-Dip	3.20	2.44	1.86
DAC0832LCWM-ND	8-Bit, µP Compatible D/A Converter	20-SOIC	3.13	2.38	1.82
DAC14135MT-ND	14-Bit, 135MSPS D/A Converter	48-TSSOP	9.11	7.21	5.78

EPSON ELECTRONICS AMERICA, INC.

REAL TIME CLOCK MODULES

Epson Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	50
RTC-4543SA-A0	SE3245CT-ND	Real Time Clock, 5±10ppm	14-SOP	5.04	4.32	3.60
RTC-4543SA-A0	SE3245TR-ND	Real Time Clock, 5±10ppm	14-SOP	2400.00/1,000		
RTC-62421A	SE3247-ND	Real Time Clock, ±10ppm	18-Dip	8.58	7.15	5.07
RTC-62421B	SE3248-ND	Real Time Clock, ±50ppm	18-Dip	7.74	6.45	4.57
RTC-62423A3	SE3249CT-ND	Real Time Clock, ±20ppm	24-SOP	12.25	10.50	8.75
RTC-62423A3	SE3249TR-ND	Real Time Clock, ±20ppm	24-SOP	1457.50/250		
RTC-72421A	SE3231-ND	Real Time Clock, ±10ppm	18-Dip	7.62	6.35	4.51
RTC-72421B	SE3232-ND	Real Time Clock, ±50ppm	18-Dip	7.05	5.88	4.18
RTC-72423A	SE3241-ND	Real Time Clock, ±20ppm	24-SOP	8.55	7.13	5.07
RTC-72423A3	SE3241TR-ND	Real Time Clock, ±20ppm	24-SOP	1187.50/250		
RTC-72423B	SE3242-ND	Real Time Clock, ±50ppm	24-SOP	7.50	6.25	4.44
RTC-72423B3	SE3242TR-ND	Real Time Clock, ±50ppm	24-SOP	1041.67/250		
RTC-8564JE3	SE3252CT-ND	Real Time Clock, 5±23ppm	20-VSOJ	5.88	5.04	4.20
RTC-8564JE3	SE3252TR-ND	Real Time Clock, 5±23ppm	20-VSOJ	697.50/250		
RX-8581SAB	SE3253-ND	Real Time Clock, 5±23ppm	14-SOP	3.50	3.00	2.50

National Semiconductor

INTERFACE CHIPS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
CLC020BCQ-ND	SMPTE 259M Digital Video Serializer	28-PLCC	28.50	26.60	24.70
CLC021AVGZ-5.0-ND	SMPTE 259M Digital Video Serializer	44-PQFP	37.05	34.58	32.11
DP83815DUJB-ND	Integrated PCI Ethernet Media Access Controller	160-LBGA	16.36	14.03	12.44
DP83815DVNG-ND	10/100Mb, Integrated PCI Ethernet Media Access Controller and Physical Layer	144-LQFP	12.29	10.53	9.34
DP83816AVNG-ND	10/100Mb/s PCI Ethernet Media Access Controller (MacPHYTER-II™)	144-LQFP	9.47	7.49	6.00
DP83843BVJE-ND	Phyter with Integrated PMD Sublayers	80-PQFP	16.05	14.98	13.91
DP83846AVHG-ND	DsPHYTER, Single 10/100 Ethernet Transceiver	80-LQFP	10.04	7.94	6.36
DP83847ALQA56A-ND	Single 10/100 Ethernet Transceiver	56-LLP	5.48	4.34	3.48
DP83848CVV-ND	Phyter Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver*	48-LQFP	4.73	3.59	2.75
DP83848IVV-ND	Phyter Single Port 10/100 Mb/s Ethernet Physical Layer Transceiver*	48-LQFP	6.18	4.70	3.59
DP83865DVH-ND	10/100/1000 Ethernet Physical Layer (Gig PHYTER®V)	128-PQFP	18.60	17.36	16.12

* ***RoHS Compliant***

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INTERFACE CHIPS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DP83902AV-ND	Serial Network Interface Controller for Twisted Pair	84-PLCC	16.61	14.24	12.63
DS14C88M-ND	Quad CMOS Line Driver	14-SOIC	1.71	1.28	.95
DS14C88MXTR-ND	Quad CMOS Line Driver	14-SOIC	1728.13/2,500		
DS14C88N-ND	Quad CMOS Line Driver	14-Dip	2.20	1.64	1.21
DS14C89AM-ND	Quad CMOS Line Receiver	14-SOIC	1.71	1.28	.95
DS14C89AMXTR-ND	Quad CMOS Line Receiver	14-SOIC	1728.13/2,500		
DS14C89AN-ND	Quad CMOS Line Receiver	14-Dip	1.98	1.47	1.09
DS14C232CM-ND	Low Power +5V, Power TIA/EIA-232 Dual Driver/Receiver	16-SOIC	2.80	2.13	1.63
DS14C232CMXTR-ND	Low Power +5V, Power TIA/EIA-232 Dual Driver/Receiver	16-SOIC	3500.00/2,500		
DS14C232CN-ND	EIA232 Dual Driver/Receiver Low Power	16-Dip	3.05	2.32	1.77
DS14C232TM-ND	EIA232 Dual Driver/Receiver Low Power	16-SOIC	3.00	2.28	1.74
DS14C238WM-ND	Single Supply TIA/EIA-232 4x4 Driver/Receiver	24-SOIC	6.78	5.37	4.30
DS14C238WMXTR-ND	Single Supply TIA/EIA-232 4x4 Driver/Receiver	24-SOIC	4005.20/1,000		
DS14C241WM-ND	Single Supply TIA/EIA-232 4x5 Driver/Receiver	28-SOIC	6.24	4.94	3.96
DS14C335MSA-ND	3.3V, Supply TIA/EIA-232 3x5 Driver/Receiver	28-SSOP	8.11	6.41	5.14
DS14C535MSA-ND	5V, Supply EIA/TIA-232 3x5 Driver/Receiver	28-SSOP	6.66	5.27	4.22
DS26C31TM-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC	1.80	1.32	.96
DS26C31TMXTR-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC	1530.00/2,500		
DS26C31TN-ND	CMOS Quad RS422 Line Driver	16-Dip	2.17	1.61	1.19
DS26C32ATM-ND	CMOS Quad RS422 Receiver	16-SOIC	1.77	1.32	.97
DS26C32ATMXTR-ND	CMOS Quad RS422 Receiver	16-SOIC	1781.25/2,500		
DS26C32ATN-ND	Quad Differential Line Receiver	16-Dip	2.51	1.87	1.38
DS26LS31CM-ND	Quad High Speed Differential Line Driver	16-SOIC	1.72	1.27	.92
DS26LS31CMXTR-ND	Quad High Speed Differential Line Driver	16-SOIC	1463.06/2,500		
DS26LS31CN-ND	Quad High Speed Differential	16-Dip	2.08	1.55	1.14
DS26LS32ACM-ND	Quad Differential Line Receiver	16-SOIC	1.79	1.31	.96
DS26LS32ACMXTR-ND	Quad Differential Line Receiver	16-SOIC	1517.25/2,500		
DS26LS32ACN-ND	Quad Differential Line Receiver	16-Dip	2.05	1.52	1.13
DS26LS32CM-ND	Quad Differential Line Receiver	16-SOIC	1.54	1.13	.82
DS26LS32CN-ND	Quad Differential Line Receiver	16-Dip	1.92	1.43	1.06
DS26LV31TM-ND	3V, Enhanced Quad CMOS Differential Line Driver	16-SOIC	1.90	1.41	1.05
DS26LV32ATM-ND	3V, Enhanced Quad CMOS Differential Line Receiver	16-SOIC	1.90	1.41	1.05
DS34C86TM-ND	Quad CMOS Differential Line Receiver	16-SOIC	1.77	1.32	.97
DS34C86TMXTR-ND	Quad CMOS Differential Line Receiver	16-SOIC	1781.25/2,500		
DS34C86TN-ND	Quad CMOS Differential Line Receiver	16-Dip	2.11	1.57	1.16
DS34C87TM-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC	1.56	1.16	.86
DS34C87TMXTR-ND	CMOS Quad Tri-State Differential Line Driver	16-SOIC	1568.75/2,500		
DS34C87TN-ND	CMOS Quad Tri-State Differential Line Driver	16-Dip	1.89	1.41	1.04
DS34LV86TM-ND	3V, Enhanced Quad CMOS Differential Line Receiver	16-SOIC	2.57	1.91	1.42
DS34LV87TM-ND	Enhanced Quad CMOS Differential Line Driver	16-SOIC	2.57	1.91	1.42
DS36C200M-ND	Dual High Speed Bi-Directional Differential Transceiver	14-SOIC	2.98	2.21	1.64
DS36C278M-ND	Low Power Multipoint EIA-RS-485 Transceiver	8-SOIC	2.76	2.05	1.52
DS36C278N-ND	Low Power Multipoint EIA-RS-485 Transceiver	8-Dip	2.82	2.10	1.55
DS36C278TM-ND	Multipoint EIA Low Power Transceiver	8-SOIC	2.82	2.10	1.55
DS36C279M-ND	Low Power EIA-RS-485 Transceiver with Sleep Mode	8-SOIC	2.58	1.96	1.50
DS36C280M-ND	Slew Rate Controlled CMOS EIA-RS-485 Transceiver	8-SOIC	2.58	1.96	1.50
DS36F95M-ND	High Speed Multipoint RS485/422 Transceiver	8-SOIC	3.68	2.80	2.14
DS40MB200SQCT-ND	Dual 4Gb/s 1:2 Mux/Buffer ***NEW!***	48-LLP	24.75	23.10	21.45
DS40MB200SQTR-ND	Dual 4Gb/s 1:2 Mux/Buffer ***NEW!***	48-LLP	5238.75/250		
DS89C21TM-ND	Differential CMOS Line Driver/Receiver Pair	8-SOIC	1.61	1.20	.89
DS89C386TMEA-ND	12-Channel CMOS Differential Line Receiver	48-SSOP	8.76	6.93	5.55
DS89C387TMEA-ND	12-Channel CMOS Differential Line Driver	48-SSOP	8.76	6.93	5.55
DS90C031BTM-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC	3.20	2.44	1.86
DS90C031TM-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC	3.20	2.44	1.86
DS90C031TMXTR-ND	LVDS Quad CMOS Differential Line Driver	16-SOIC	4000.00/2,500		
DS90C032BTM-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC	3.20	2.44	1.86
DS90C032TM-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC	3.20	2.44	1.86
DS90C032TMXTR-ND	LVDS Quad CMOS Differential Line Receiver	16-SOIC	4000.00/2,500		
DS90C383MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Transmitter	56-TSSOP	6.26	4.95	3.97
DS90C385AMT-ND	+3.3V Prog. LVDS Transmitter 24-Bit Flat Panel Display Link, 85MHz	56-TSSOP	5.48	4.34	3.48
DS90C387AVJD-ND	Dual Pixel LVDS Display Interface	100-TQFP	9.15	7.85	6.96
DS90C387RVJD-ND	85MHz Dual 12-Bit LDI Transmitter (VGA/UXGA)	100-TQFP	9.98	7.89	6.32
DS90C387VJD-ND	LVDS Dual Pixel Display Interface (LDI)-SVGA-OXGA	100-TQFP	9.15	7.85	6.96
DS90C401M-ND	LVDS Dual Low Volt Differential Signaling Driver	8-SOIC	2.50	1.90	1.45
DS90C402M-ND	LVDS Dual Low Volt Differential Signaling Receiver	8-SOIC	2.50	1.90	1.45
DS90C2501SLBCT-ND	Transmitter for LVDS Display Interface	Laminate CSP	16.20	15.12	14.04
DS90C2501SLBTR-ND	Transmitter for LVDS Display Interface	Laminate CSP	6750.00/500		
DS90CF364MTD-ND	LVDS 3.3V, FPD Link 18-Bit, Receiver	48-TSSOP	5.85	4.45	3.40
DS90CF364AMTD-ND	LVDS 3.3V, FPD Link-65MHz, 18-Bit, Receiver	48-TSSOP	5.48	4.34	3.48
DS90CF366MTD-ND	LVDS 3.3V, FPD Link-85MHz, 18-Bit, Receiver	48-TSSOP	6.26	4.95	3.97
DS90CF384AMTD-ND	LVDS 3.3V, FPD Link-65MHz, 24-Bit, Receiver	56-TSSOP	5.99	4.74	3.80
DS90CF383MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Receiver	56-TSSOP	6.26	4.95	3.97
DS90CF384MTD-ND	LVDS 3.3V, FPD Link 24-Bit, Receiver	56-TSSOP	5.36	4.24	3.40
DS90CF386MTD-ND	LVDS 3.3V, FPD Link-85MHz, 24-Bit, Receiver	56-TSSOP	6.26	4.95	3.97
DS90CF388AVJD-ND	LVDS Dual Pixel Display Interface/FPD-Link	100-TQFP	9.83	7.77	6.23
DS90CF388VJD-ND	LVDS Dual Pixel Display Interface (LDI)-SVGA/QXGA	100-TQFP	9.83	7.77	6.23
DS90CF561MTD-ND	LVDS 18-Bit, Color, FPD Link	48-TSSOP	9.83	7.77	6.23
DS90CF562MTD-ND	LVDS 18-Bit, Color, FPD Link	48-TSSOP	8.93	7.06	5.66
DS90CF563MTD-ND	LVDS 5V, FPD Link 18-Bit, Transmitter	48-TSSOP	9.83	7.77	6.23
DS90CF564MTD-ND	LVDS 5V, FPD Link 18-Bit, Receiver	48-TSSOP	8.93	7.06	5.66
DS90CF584MTD-ND	LVDS 5V, FPD Link 24-Bit, Receiver	56-TSSOP	8.93	7.06	5.66
DS90CP04TLQCT-ND	4x4 Low Power 2.5 Gb/s LVDS Digital Cross-Point Switch	32-LLP	9.56	8.19	7.27
DS90CP04TLQTR-ND	4x4 Low Power 2.5 Gb/s LVDS Digital Cross-Point Switch	32-LLP	1733.55/250		
DS90CP22M-8-ND	2x2 800MBPS LVDS Crosspoint Switch	16-SOIC	6.57	5.20	4.17
DS90CP22MT-ND	2x2 800MBPS LVDS Crosspoint Switch	16-TSSOP	6.57	5.20	4.17
DS90CR212MTD-ND	21-Bit, Channel Link, Receiver, 40MHz	48-TSSOP	10.27	8.12	6.51
DS90CR213MTD-ND	21-Bit, Channel Link-66MHz, Transmitter	48-TSSOP	9.00	7.71	6.84
DS90CR214MTD-ND	21-Bit, Channel Link-66MHz, Receiver	48-TSSOP	9.00	7.71	6.84
DS90CR215MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Transmitter	48-TSSOP	7.39	5.85	4.69
DS90CR216AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-66MHz, Receiver	48-TSSOP	5.99	4.74	3.80
DS90CR217MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-85MHz	48-TSSOP	7.98	6.31	5.06
DS90CR218AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-85MHz	48-TSSOP	6.99	5.53	4.43
DS90CR218MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 21-Bit, Channel Link-75MHz	48-TSSOP	8.93	7.06	5.66
DS90CR281MTD-ND	28-Bit, Channel Link, Transmitter	56-TSSOP	9.63	8.25	7.32
DS90CR282MTD-ND	28-Bit, Channel Link, Receiver	56-TSSOP	9.63	8.25	7.32
DS90CR283MTD-ND	28-Bit, Channel Link-66MHz, Transmitter	56-TSSOP	9.98	8.55	7.59

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DS90CR284MTD-ND	28-Bit, Channel Link-66MHz, Receiver	56-TSSOP	9.98	8.55	7.59
DS90CR285MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit, Channel Link-66MHz, Transmitter	56-TSSOP	6.62	5.23	4.19
DS90CR286AMTD-ND	3.3V, Data Strobe LVDS Receiver 28-Bit Channel Link-66MHz	56-TSSOP	6.99	5.53	4.43
DS90CR286MTD-ND	LVDS 3.3V, Data Strobe 28-Bit, Channel Link-66MHz	56-TSSOP	6.26	4.95	3.97
DS90CR287MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-75MHz	56-TSSOP	9.98	8.55	7.59
DS90CR287SLC-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-75MHz	64-FBGA	11.22	9.62	8.53
DS90CR288AMTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-85MHz	56-TSSOP	9.93	7.86	6.30
DS90CR288ASLC-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel Link-85MHz	64-FBGA	10.57	9.06	8.04
DS90CR288MTD-ND	LVDS 3.3V, Rising Edge Data Strobe 28-Bit Channel-75MHz	56-TSSOP	11.90	10.20	9.05
DS90CR481VJD-ND	48-Bit LVDS Channel Link SER/DES, 65-112MHz	100-TQFP	15.30	14.28	13.26
DS90CR482VS-ND	48-Bit LVDS Channel Link SER/DES, 65-112MHz	100-TQFP	15.75	14.70	13.65
DS90CR483VJD-ND	48-Bit LVDS Channel Link SER/DES, 33-112MHz	100-TQFP	17.47	14.97	13.28
DS90CR484VJD-ND	48-Bit LVDS Channel Link SER/DES, 33-112MHz	100-TQFP	15.75	14.70	13.65
DS90CR485VS-ND	133MHz, 48-Bit Channel Link Serializer (6.384 Gbps)	100-TQFP	18.45	17.22	15.99
DS90CR486VS-ND	133MHz, 48-Bit Channel Link Deserializer (6.384 Gbps)	100-TQFP	18.45	17.22	15.99
DS90CF386SLC-ND	3.3V, LVDS Receiver, 24-Bit Flat Panel Display	64-FBGA	7.14	5.65	4.53
DS90LV001TLDCT-ND	3.3V LVDS-LVDS Buffer	8-LLP	2.36	1.75	1.30
DS90LV001TLDTR-ND	3.3V LVDS-LVDS Buffer	8-LLP	972.80/1,000		
DS90LV001TM-ND	3.3V, LVDS-LVDS Buffer	8-SOIC	2.36	1.75	1.30
DS90LV004TVS-ND	4-Ch. LVDS Buffer/Repeater with Pre-Emphasis*	48-TQFP	7.85	6.21	4.98
DS90LV011ATLDCT-ND	3V, LVDS Single High Speed Differential Driver	8-LLP	1.50	1.10	.80
DS90LV011ATLDTR-ND	3V, LVDS Single High Speed Differential Driver	8-LLP	520.00/1,000		
DS90LV011ATMFCT-ND	3V, LVDS Single High Speed Differential Driver	SOT-23	1.43	1.05	.76
DS90LV011ATMFTR-ND	3V, LVDS Single High Speed Differential Driver	SOT-23	494.00/1,000		
DS90LV017ATM-ND	LVDS Single High Speed Differential Driver	8-SOIC	1.86	1.38	1.02
DS90LV017M-ND	LVDS Single High Speed Differential Driver	8-SOIC	1.83	1.36	1.01
DS90LV018ATM-ND	LVDS 3V, Single CMOS Differential Line Receiver	8-SOIC	2.11	1.57	1.16
DS90LV019TM-ND	LVDS 3.3V or 5V Driver/Receiver	14-SOIC	2.65	2.02	1.54
DS90LV019TMTC-ND	LVDS 3.3V or 5V Driver/Receiver	14-TSSOP	2.65	2.02	1.54
DS90LV027ATM-ND	LVDS Dual High Speed Differential Driver	8-SOIC	1.98	1.48	1.09
DS90LV027M-ND	LVDS Dual High Speed Differential Driver	8-SOIC	2.45	1.82	1.35
DS90LV028ATLDCT-ND	LVDS 3V Dual CMOS Differential Line Receiver	8-LLP	2.64	1.96	1.45
DS90LV028ATLDTR-ND	LVDS 3V Dual CMOS Differential Line Receiver	8-LLP	1088.00/1,000		
DS90LV028ATM-ND	LVDS 3V Dual CMOS Differential Line Receiver	8-SOIC	2.64	1.96	1.45
DS90LV031ATM-ND	LVDS 3V Quad CMOS Differential Line Driver	16-SOIC	2.78	2.11	1.61
DS90LV031ATMTC-ND	LVDS 3V Quad CMOS Differential Line Driver	16-TSSOP	2.78	2.11	1.61
DS90LV031ATMXCT-ND	LVDS 3V Quad CMOS Differential Line Driver ***NEW!***	16-SOIC	3.08	2.34	1.79
DS90LV031ATMXTR-ND	LVDS 3V Quad CMOS Differential Line Driver	16-SOIC	3468.75/2,500		
DS90LV031BTM-ND	LVDS 3V Quad CMOS Differential Line Driver	16-SOIC	2.78	2.11	1.61
DS90LV032ATM-ND	LVDS 3V Quad CMOS Differential Line Receiver	16-SOIC	2.78	2.11	1.61
DS90LV032ATMTC-ND	LVDS 3V Quad CMOS Differential Line Receiver	16-TSSOP	2.78	2.11	1.61
DS90LV047ATM-ND	LVDS 3V Quad CMOS Differential Line Driver	16-SOIC	2.73	2.08	1.59
DS90LV047ATMTC-ND	LVDS 3V Quad CMOS Differential Line Driver	16-TSSOP	2.73	2.08	1.59
DS90LV048ATM-ND	LVDS 3V Quad CMOS Differential Line Receiver	16-SOIC	2.73	2.08	1.59
DS90LV048ATMTC-ND	LVDS 3V Quad CMOS Differential Line Receiver	16-TSSOP	2.73	2.08	1.59
DS90LV049HMTXCT-ND	High Temp. 3V LVDS Dual Line Driver/Receiver Pair ***NEW!***	16-TSSOP	2.67	1.98	1.47
DS90LV049HMTXTR-ND	High Temp. 3V LVDS Dual Line Driver/Receiver Pair ***NEW!***	16-TSSOP	2687.50/2,500		
DS90LV049TMT-ND	3V LVDS Dual Line Driver with Dual Line Receiver	16-TSSOP	2.51	1.87	1.38
DS90LV110ATMT-ND	1-to-10 LVDS Data/Clock Distributor with Failsafe	28-TSSOP	9.83	7.77	6.23
DS90LV110TMTC-ND	1-to-10 LVDS Data/Clock Distributor	28-TSSOP	9.83	7.77	6.23
DS90LV804TSQCT-ND	4-Channel, 800MBPS LVDS Buffer/Repeater ***NEW!***	32-LLP	5.88	4.65	3.73
DS90LV804TSQTR-ND	4-Channel, 800MBPS LVDS Buffer/Repeater ***NEW!***	32-LLP	3472.00/1,000		
DS92CK16TMTC-ND	BLVDS 3V, 1-to-6 Clock Buffer/Bus Transceiver	24-TSSOP	5.96	4.72	3.78
DS92LV010ATM-ND	Bus LVDS 3.3/5.0V Single Transceiver	8-SOIC	3.20	2.44	1.86
DS92LV040ATLQACT-ND	LVDS 4-Channel Bus Transceiver	44-LLP	6.97	5.52	4.42
DS92LV040ATLQATR-ND	LVDS 4-Channel Bus Transceiver	44-LLP	1054.10/250		
DS92LV090ATVEH-ND	LVDS 9-Channel Transceiver	64-LQFP	9.14	7.83	6.95
DS92LV16TVHG-ND	16-Bit Bus LVDS Serializer/Deserializer	80-LQFP	13.72	11.76	10.43
DS92LV18TVV-ND	18-Bit Bus LVDS Serializer/Deserializer	80-PQFP	14.96	12.83	11.38
DS92LV1021AMSA-ND	16MHz-40MHz 10-Bit Bus LVDS Serializer ***NEW!***	28-SSOP	8.59	6.79	5.44
DS92LV1021TMSA-ND	16MHz-40MHz 10-Bit Bus LVDS Serializer	28-SSOP	10.61	9.09	8.06
DS92LV1023TMSA-ND	40MHz-66MHz 10-Bit Serializer	28-SSOP	7.94	6.28	5.03
DS92LV1210TMSA-ND	16MHz-40MHz 10-Bit Deserializer	28-SSOP	9.68	8.30	7.36
DS92LV1212AMSA-ND	Bus LVDS 16MHz-40MHz 10-Bit Random Lock Deserializer with Embedded Clock Recovery	28-SSOP	8.04	6.36	5.10
BLVDS04-ND	Evaluation Board for DS92LV1023/1224	—	222.00	—	—
DS92LV1224TMSA-ND	40MHz-66MHz 10-Bit Deserializer	28-SSOP	8.04	6.36	5.10
DS92LV1260TUJB-ND	6-Channel 10-Bit BLVDS Deserializer	196-LBGA	28.50	26.60	24.70
DS92LV222ATM-ND	Bus LVDS Two Channel Multiplexer Repeater	16-SOIC	5.33	4.05	3.09
DS92LV8028TUF-ND	8-Channel 10:1 Serializer	196-LBGA	32.10	29.96	27.82
DS92UT16TUF-ND	UTOPIA-LVDS Bridge for 1.6 Gbps Bi-Directional Data Transfers	196-LBGA	31.35	29.26	27.17
DS485M-ND	Low Power Multipoint RS485/RS422 Transceiver	8-SOIC	2.45	1.82	1.35
DS485N-ND	Low Power Multipoint RS485/RS422 Transceiver	8-Dip	2.58	1.92	1.42
DS485TM-ND	Low Power Multipoint RS485/RS422 Transceiver	8-SOIC	2.45	1.82	1.35
DS485TN-ND	Low Power Multipoint RS485/RS422 Transceiver	8-Dip	2.58	1.92	1.42
DS1487N-ND	Low Power Multipoint RS485 1/4 Unit Load Transceiver	8-Dip	2.58	1.92	1.42
DS2003CM-ND	High Current/High Voltage Darlington Driver with Internal Resistor	16-SOIC	1.29	.95	.69
DS2003CMXCT-ND	High Current/High Voltage Darlington Driver with Internal Resistor ***NEW!***	16-SOIC	1.24	.91	.66
DS2003CMXTR-ND	High Current/High Voltage Darlington Driver with Internal Resistor	16-SOIC	1099.69/2,500		
DS2003CN-ND	High Current/High Voltage Darlington Driver with Internal Resistor	16-Dip	1.33	.98	.71
DS3486M-ND	RS422/423 Quad Line Receiver	16-SOIC	1.44	1.06	.77
DS3486N-ND	RS422/423 Quad Line Receiver	16-Dip	1.71	1.27	.94
DS3487M-ND	Quad Differential Line Driver	16-SOIC	1.72	1.27	.92
DS3487N-ND	Quad Differential Line Driver	16-Dip	1.74	1.29	.96
DS3658N-ND	Quad High Low Current Peripheral Driver	16-Dip	3.80	2.89	—
DS3668N-ND	Quad Fault Protect Peripheral Driver	16-Dip	4.13	3.14	—
DS3691M-ND	RS422/423 Line Driver	16-SOIC	1.84	1.37	1.02
DS3691N-ND	RS422/423 Line Driver	16-Dip	2.23	1.66	1.23

*** RoHS Compliant**

(Continued)

National Semiconductor™ INTERFACE CHIPS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
DS3695AM-ND	Multipoint RS485/RS422 Transceiver/Repeater	8-SOIC	1.63	1.22	.90
DS3695AMXTR-ND	Multipoint RS485/RS422 Transceiver/Repeater	8-SOIC	1646.88/2,500		
DS3695ATM-ND	Multipoint RS485/422 Transceiver/Repeater	8-SOIC	2.76	2.05	1.52
DS3695N-ND	Multipoint RS485/422 Transceiver/Repeater	8-Dip	1.74	1.29	.96
DS3695TN-ND	Multipoint RS485/422 Transceiver/Repeater	8-Dip	1.74	1.29	.96
DS3696N-ND	Multipoint RS485/422 Transceiver/Repeater	8-Dip	2.51	1.87	1.38
DS36950V-ND	RS485 Quad Differential Receiver	20-PLCC	9.00	7.71	—
DS8921AM-ND	Differential Line Driver/Receiver Pair	8-SOIC	1.79	1.31	.96
DS8921ATM-ND	Differential Line Driver/Receiver Pair	8-SOIC	1.79	1.31	.96
DS8921M-ND	Differential Line Driver/Receiver Pair	8-SOIC	1.61	1.20	.89
DS8921N-ND	Differential Line Driver/Receiver Pair	8-Dip	1.61	1.20	.89
DS8922AM-ND	RS422 Dual Driver/Receiver Pair	16-SOIC	2.00	1.49	1.10
DS8922AN-ND	RS422 Dual Driver/Receiver Pair	16-Dip	2.45	1.82	1.35
DS8922M-ND	RS422 Dual Driver/Receiver Pair	16-SOIC	2.00	1.49	1.10
DS8923AM-ND	RS422 Dual Differential Line Driver/Receiver	16-SOIC	2.00	1.49	1.10
DS8923AMXTR-ND	RS422 Dual Differential Line Driver/Receiver	16-SOIC	2018.75/2,500		
DS8923AN-ND	RS422 Dual Differential Line Driver/Receiver	16-Dip	2.45	1.82	1.35
DS9637ACM-ND	RS423 Dual Receiver	8-SOIC	1.58	1.16	.84
DS9638CM-ND	RS422 Dual High Speed Differential Line Driver	8-SOIC	1.58	1.16	.84
DS14185WM-ND	EIA/TIA-232 3 Driver x 5 Receiver	20-SOIC	1.77	1.32	.97
DS14196WM-ND	EIA/TIA-232 5 Driver x 3 Receiver	20-SOIC	1.69	1.24	.90
DS36276M-ND	Failsafe Multipoint Transceiver	8-SOIC	3.01	2.24	1.65
DS36277TM-ND	Dominant Mode Multipoint Transceiver	8-SOIC	2.82	2.10	1.55
DS36277TMXTR-ND	Dominant Mode Multipoint Transceiver	8-SOIC	2843.75/2,500		
DS36277TN-ND	Dominant Mode Multipoint Transceiver	8-Dip	3.04	2.26	1.67
DS36954M-ND	Quad Differential Bus Transceiver	20-SOIC	9.68	8.30	7.36
DS75176BM-ND	Multipoint RS485/422 Transceiver	8-SOIC	1.66	1.22	.89
DS75176BMXCT-ND	Multipoint RS485/422 Transceiver ***NEW!***	8-SOIC	1.65	1.21	.88
DS75176BMXTR-ND	Multipoint RS485/422 Transceiver	8-SOIC	1408.88/2,500		
DS75176BN-ND	Multipoint RS485/422 Transceiver	8-Dip	1.69	1.24	.90
DS75176BTM-ND	Multipoint RS485/422 Transceiver	8-SOIC	1.69	1.24	.90
DS75176BTN-ND	Multipoint RS485/422 Transceiver	8-Dip	1.69	1.24	.90
DS96173CN-ND	EIA422/485 Quad Receiver	16-Dip	4.20	3.20	2.44
DS92001TLDCT-ND	3.3V B/LVDS-BLVDS Buffer	8-LLP	2.64	1.96	1.45
DS92001TLDTR-ND	3.3V B/LVDS-BLVDS Buffer	8-LLP	1088.00/1,000		
DS92001TMA-ND	3.3V B/LVDS-BLVDS Buffer	8-SOIC	2.95	2.19	1.62
DS96174CN-ND	RS485/422 Quad Differential Driver	16-Dip	3.68	2.80	2.14
DS96175CN-ND	RS485/422 Quad Differential Receiver	16-Dip	4.38	3.33	2.54
DS96176CN-ND	RS485 Transceiver	8-Dip	2.68	2.04	1.56
EQ50F100LRCT-ND	1Gbps to 6.25Gbps Backplane Equalizer*	6-LLP	9.07	7.77	6.89
EQ50F100LRTR-ND	1Gbps to 6.25Gbps Backplane Equalizer*	6-LLP	6423.20/1,000		

* ***RoHS Compliant***

ROHM INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BA00BC0WT-ND	Adj., 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA00CC0WT-ND	Adj., 1A LDO Voltage Regulator	TO-220FP-5	1.33	1.06	.80
BA03CC0T-ND	3V, 1A LDO Voltage Regulator	TO-220FP	1.41	1.18	.94
BA03CC0WT-ND	3V, 1A LDO Voltage Regulator with Shutdown	TO-220-FP-5	1.44	1.20	.96
BA05CC0T-ND	5V, 1A LDO Voltage Regulator	TO-220FP	1.41	1.18	.94
BA05CC0WT-ND	5V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BA07CC0T-ND	7V, 1A LDO Voltage Regulator	TO-220FP	1.41	1.18	.94
BA07CC0WT-ND	7V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BA08CC0T-ND	8V, 1A LDO Voltage Regulator	TO-220FP-5	1.41	1.18	.94
BA08CC0WT-ND	8V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BA09CC0T-ND	9V, 1A LDO Voltage Regulator	TO-220FP	1.41	1.18	.94
BA09CC0WT-ND	9V, 1A LDO Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BA15BC0T-ND	1.5V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA15BC0WT-ND	1.5V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA18BC0T-ND	1.8V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA18BC0WT-ND	1.8V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA25BC0T-ND	2.5V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA25BC0WT-ND	2.5V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA30BC0T-ND	3V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA30BC0WT-ND	3V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA33BC0T-ND	3.3V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA33BC0WT-ND	3.3V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA50BC0T-ND	5V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA50BC0WT-ND	5V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA60BC0T-ND	6V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA60BC0WT-ND	6V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA70BC0T-ND	7V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA70BC0WT-ND	7V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA80BC0T-ND	8V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA80BC0WT-ND	8V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA90BC0T-ND	9V, 1A LDO Voltage Regulator with Low Saturation	TO-220FP	1.02	.85	.68
BA90BC0WT-ND	9V, 1A LDO Voltage Regulator with Low Saturation/Shutdown	TO-220FP-5	1.26	1.05	.84
BA028LBSG2-CT-ND	2.8V, 150mA Low Saturation Regulator	5-SSOP	.80	.60	.45
BA028LBSG2-TR-ND	2.8V, 150mA Low Saturation Regulator	5-SSOP	780.00/3,000		
BA029LBSG2-CT-ND	2.9V, 150mA Low Saturation Regulator	5-SSOP	.80	.60	.45
BA029LBSG2-TR-ND	2.9V, 150mA Low Saturation Regulator	5-SSOP	780.00/3,000		
BA030LBSG2-CT-ND	3V, 150mA Low Saturation Regulator	5-SSOP	.80	.60	.45
BA030LBSG2-TR-ND	3V, 150mA Low Saturation Regulator	5-SSOP	780.00/3,000		
BA032LBSG2-CT-ND	3.2V, 150mA Low Saturation Regulator	5-SSOP	.80	.60	.45
BA032LBSG2-TR-ND	3.2V, 150mA Low Saturation Regulator	5-SSOP	780.00/3,000		
BA033CC0T-ND	3.3V, 1A Low Saturation Regulator	TO-220FP	1.41	1.18	.94
BA033CC0WT-ND	3.3V, 1A Low Saturation Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BA033LBSG2-CT-ND	3.3V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA033LBSG2-TR-ND	3.3V, 150mA Low Saturation Regulator	5-SMP	780.00/3,000		
BA036LBSG2-CT-ND	3.6V, 150mA Low Saturation Regulator	5-SSOP	.80	.60	.45
BA036LBSG2-TR-ND	3.6V, 150mA Low Saturation Regulator	5-SSOP	780.00/3,000		
BA038LBSG2-CT-ND	3.8V, 150mA Low Saturation Regulator	5-SSOP	.80	.60	.45
BA038LBSG2-TR-ND	3.8V, 150mA Low Saturation Regulator	5-SSOP	780.00/3,000		
BA040LBSG2-CT-ND	4V, 150mA Low Saturation Regulator	5-SSOP	.75	.63	.50
BA040LBSG2-TR-ND	4V, 150mA Low Saturation Regulator	5-SSOP	975.00/3,000		
BA050LBSG2-CT-ND	5V, 150mA Low Saturation Regulator	5-SMP	.80	.60	.45
BA050LBSG2-TR-ND	5V, 150mA Low Saturation Regulator	5-SMP	780.00/3,000		
BA178M05T-ND	5V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M06T-ND	6V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M07T-ND	7V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M08T-ND	8V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M09T-ND	9V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M10T-ND	10V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M12T-ND	12V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M15T-ND	15V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M18T-ND	18V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M20T-ND	20V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA178M24T-ND	24V, 0.5A Fixed Positive Output Voltage Regulator	TO-220FP	.80	.60	.45
BA2901F-E2CT-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	14-SOP	.60	.45	.34
BA2901F-E2TR-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	14-SOP	487.50/2,500		
BA2901FV-E2CT-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	B14-SSOP	.60	.45	.34
BA2901FV-E2TR-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	B14-SSOP	487.50/2,500		
BA2901KN-E2CT-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	16-VQFN	.64	.48	.36
BA2901KN-E2TR-ND	36V, 0.8mA Ground Sense Quad Voltage Comparator	16-VQFN	520.00/2,500		
BA2902F-E2CT-ND	32V, 0.7mA Ground Sense Quad Op Amp	14-SOP	.64	.48	.36
BA2902F-E2TR-ND	32V, 0.7mA Ground Sense Quad Op Amp	14-SOP	520.00/2,500		
BA2902FV-E2CT-ND	32V, 0.7mA Ground Sense Quad Op Amp	B14-SSOP	.64	.48	.36
BA2902FV-E2TR-ND	32V, 0.7mA Ground Sense Quad Op Amp	B14-SSOP	520.00/2,500		
BA2902KN-E2CT-ND	32V, 0.7mA Ground Sense Quad Op Amp	16-VQFN	.80	.60	.45
BA2902KN-E2TR-ND	32V, 0.7mA Ground Sense Quad Op Amp	16-VQFN	650.00/2,500		
BA2903F-E2CT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	8-SOP	.48	.36	.27
BA2903F-E2TR-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	8-SOP	390.00/2,500		
BA2903FV-E2CT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	B8-SSOP	.56	.42	.32
BA2903FV-E2TR-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	B8-SSOP	455.00/2,500		
BA2903FVM-CT-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	8-MSOP	.56	.42	.32
BA2903FVM-TR-ND	36V, 0.6mA Ground Sense Dual Voltage Comparator	8-MSOP	546.00/3,000		
BA2904F-E2CT-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-SOP	.48	.36	.27
BA2904F-E2TR-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-SOP	390.00/2,500		
BA2904FV-E2CT-ND	32V, 0.7mA Ground Sense Dual Op Amp	B8-SSOP	.56	.42	.32
BA2904FV-E2TR-ND	32V, 0.7mA Ground Sense Dual Op Amp	B8-SSOP	455.00/2,500		
BA2904FVM-CT-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-MSOP	.56	.42	.32
BA2904FVM-TR-ND	32V, 0.7mA Ground Sense Dual Op Amp	8-MSOP	546.00/3,000		
BA4116FV-E2CT-ND	FM IF Detector for Cordless Phones	B16-SSOP	1.26	1.05	.84
BA4558F-E2CT-ND	36V, Dual Op Amp	8-SOP	.55	.44	.33
BA4558F-E2TR-ND	36V, Dual Op Amp	8-SOP	372.50/2,500		
BA4558RF-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	.50	.40	.30
BA4558RF-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	337.50/2,500		
BA4558RFV-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	B8-SSOP	.50	.40	.30
BA4558RFV-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	B8-SSOP	337.50/2,500		
BA4558RFVM-CT-ND	36V, 3mA Low Noise Dual Op Amp	8-MSOP	.50	.40	.30
BA4558RFVM-TR-ND	36V, 3mA Low Noise Dual Op Amp	8-MSOP	405.00/3,000		
BA4560-ND	36V, Dual High Slew Rate Op Amp	8-Dip	.50	.40	.30
BA4560F-E2CT-ND	36V, Dual High Slew Rate Op Amp	8-SOP	.50	.40	.30
BA4560F-E2TR-ND	36V, Dual High Slew Rate Op Amp	8-SOP	337.50/2,500		
BA4560RF-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	.50	.40	.30
BA4560RF-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	8-SOP	337.50/2,500		
BA4560RFV-E2CT-ND	36V, 3mA Low Noise Dual Op Amp	B8-SSOP	.50	.40	.30
BA4560RFV-E2TR-ND	36V, 3mA Low Noise Dual Op Amp	B8-SSOP	337.50/2,500		
BA4560RFVM-CT-ND	36V, 3mA Low Noise Dual Op Amp	8-MSOP	.50	.40	.30
BA4560RFVM-TR-ND	36V, 3mA Low Noise Dual Op Amp	8-MSOP	405.00/3,000		
BA6845FS-E2CT-ND	Stepping Motor Driver	A16-SSOP	1.44	1.20	.96
BA6845FS-E2TR-ND	Stepping Motor Driver	A16-SSOP	1560.00/2,500		
BA10358F-E2CT-ND	32V, Dual Ground Sense Op Amp	8-SOP	.50	.40	.30
BA10358F-E2TR-ND	32V, Dual Ground Sense Op Amp	8-SOP	337.50/2,500		
BA10393F-E2CT-ND	Dual Comparator	8-SOP	.45	.36	.27
BA10393F-E2TR-ND	Dual Comparator	8-SOP	305.00/2,500		
BA17805T-ND	5V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17806T-ND	6V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17807T-ND	7V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17808T-ND	8V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17809T-ND	9V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17810T-ND	10V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17812T-ND	12V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17815T-ND	15V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17818T-ND	18V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17820T-ND	20V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BA17824T-ND	24V, 1A Positive Output Voltage Regulator	TO-220FP	.84	.63	.48
BAJ0BC0T-ND	10V, 1A Low Dropout Voltage Regulator	TO-220FP	1.02	.85	.68
BAJ0BC0WT-ND	10V, 1A Low Dropout Voltage Regulator with Shutdown	TO-220FP-5	1.26	1.05	.84
BAJ0CC0T-ND	10V, 1A Low Dropout Voltage Regulator	TO-220FP	1.41	1.18	.94
BAJ0CC0WT-F-ND	10V, 1A Low Dropout Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BAJ2CC0T-ND	12V, 1A Low Dropout Voltage Regulator	TO-220FP	1.41	1.18	.94
BAJ2CC0WT-ND	12V, 1A Low Dropout Voltage Regulator with Shutdown	TO-220FP-5	1.44	1.20	.96
BAJ5CC0T-ND	15V, 1A Low Dropout Voltage Regulator	TO-220FP	1.41	1.18	.94
BD7851FP-E2CT-ND	LED Driver IC with Built-In 16-Bit Shift Register	25-HSOP	2.03	1.62	1.22
BD7851FP-E2TR-ND	LED Driver IC with Built-In 16-Bit Shift Register	25-HSOP	2106.00/2,000		
BH1JLB1WHFV-CT-ND	1.85V, Low Dropout Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH1JLB1WHFV-TR-ND	1.85V, Low Dropout Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH2JNB1WHFV-CT-ND	2.85V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH2JNB1WHFV-TR-ND	2.85V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH15LB1WG-CT-ND	1.5V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH15LB1WG-TR-ND	1.5V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH15LB1WHFV-CT-ND	1.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH15LB1WHFV-TR-ND	1.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH15MA3WHFV-CT-ND	1.5V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH15MA3WHFV-TR-ND	1.5V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH18LB1WG-CT-ND	1.8V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH18LB1WG-TR-ND	1.8V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH18LB1WHFV-CT-ND	1.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH18LB1WHFV-TR-ND	1.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH18MA3WHFV-CT-ND	1.8V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH18MA3WHFV-TR-ND	1.8V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH25FB1WG-CT-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH25FB1WG-TR-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ROHM INTEGRATED CIRCUITS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BH25FB1WHFV-CT-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH25FB1WHFV-TR-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH25MA3WHFV-CT-ND	2.5V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH25MA3WHFV-TR-ND	2.5V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH25NB1WHFV-CT-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH25NB1WHFV-TR-ND	2.5V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH28FB1WG-CT-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH28FB1WG-TR-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH28FB1WHFV-CT-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH28FB1WHFV-TR-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH28MA3WHFV-CT-ND	2.8V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH28MA3WHFV-TR-ND	2.8V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH28NB1WHFV-CT-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH28NB1WHFV-TR-ND	2.8V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH29FB1WG-CT-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH29FB1WG-TR-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH29FB1WHFV-CT-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH29FB1WHFV-TR-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH29MA3WHFV-CT-ND	2.9V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH29MA3WHFV-TR-ND	2.9V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH29NB1WHFV-CT-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH29NB1WHFV-TR-ND	2.9V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH30FB1WG-CT-ND	3V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH30FB1WG-TR-ND	3V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH30FB1WHFV-CT-ND	3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH30FB1WHFV-TR-ND	3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH30MA3WHFV-CT-ND	3V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH30MA3WHFV-TR-ND	3V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH30NB1WHFV-CT-ND	3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH30NB1WHFV-TR-ND	3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH31FB1WG-CT-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH31FB1WG-TR-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH31FB1WHFV-CT-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH31FB1WHFV-TR-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH31MA3WHFV-CT-ND	3.1V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH31MA3WHFV-TR-ND	3.1V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH31NB1WHFV-CT-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH31NB1WHFV-TR-ND	3.1V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH33FB1WG-CT-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-SSOP	.68	.51	.39
BH33FB1WG-TR-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-SSOP	663.00/3,000		
BH33FB1WHFV-CT-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH33FB1WHFV-TR-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH33MA3WHFV-CT-ND	3.3V, 300mA CMOS Regulator with Shutdown	6-HVSOF	.68	.51	.39
BH33MA3WHFV-TR-ND	3.3V, 300mA CMOS Regulator with Shutdown	6-HVSOF	663.00/3,000		
BH33NB1WHFV-CT-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	.68	.51	.39
BH33NB1WHFV-TR-ND	3.3V, 150mA CMOS Regulator with Shutdown	5-HVSOF	663.00/3,000		
BH1415F-E2CT-ND	FM Stereo Transmitter IC	22-SOP	3.76	3.01	2.34
BH1415F-E2TR-ND	FM Stereo Transmitter IC	22-SOP	4258.00/2,000		
BH1417F-E2CT-ND	FM Stereo Transmitter IC	22-SOP	3.92	3.14	2.44
BH1417F-E2TR-ND	FM Stereo Transmitter IC	22-SOP	4438.00/2,000		
BH1418KN-E2CT-ND	FM Stereo Transmitter IC for Audio Systems	28-VQFN	3.92	3.14	2.44
BH1418KN-E2TR-ND	FM Stereo Transmitter IC for Audio Systems	28-VQFN	5480.00/2,500		
BH4127FV-E2CT-ND	IF Detector for 900MHz Spread Spectrum Cordless Phone	B16-SSOP	1.63	1.30	.98
BH4127FV-E2TR-ND	IF Detector for 900MHz Spread Spectrum Cordless Phone	B16-SSOP	2080.00/2,500		
BP5029-ND	5V, 300mA DC/DC Converter	6-SIP	3.24	2.60	2.02
BP5034B20-ND	20V, 80mA AC/DC Converter	10-SIP	3.15	2.52	1.96
BP5034D5-ND	5V, 100mA AC/DC Converter	10-SIP	3.83	3.06	2.38
BP5034D12-ND	12V, 100mA AC/DC Converter	10-SIP	3.15	2.52	1.96
BP5034D15-ND	15V, 80mA AC/DC Converter	10-SIP	3.83	3.06	2.38
BP5034D24-ND	24V, 50mA AC/DC Converter	10-SIP	4.46	3.57	2.78
BP5035A5-ND	-5V, 200mA AC/DC Converter	10-SIP	5.12	4.10	3.46
BP5035A12-ND	-12V, 200mA AC/DC Converter	10-SIP	4.16	3.33	2.59
BP5037B12-ND	12V, 200mA AC/DC Converter	10-SIP	3.15	2.52	1.96
BP5037B15-ND	15V, 170mA AC/DC Converter	10-SIP	3.15	2.52	1.96
BP5038A-ND	12V, 30mA AC/DC Converter	6-SIP	5.06	4.05	3.15
BP5038A1-ND	5V, 30mA AC/DC Converter	6-SIP	5.06	4.05	3.15
BP5039-15-ND	15V, 200mA AC/DC Converter	12-SIP	4.23	3.39	2.64
BP5039B12-ND	12V, 300mA AC/DC Converter	12-SIP	3.98	3.19	2.48
BP5041A-ND	12V, 100mA AC/DC Converter	10-SIP	5.14	4.12	3.47
BP5041A5-ND	5V, 100mA AC/DC Converter	10-SIP	5.14	4.12	3.47
BP5045A-ND	-12V, 200mA AC/DC Converter	10-SIP	4.50	3.60	2.80
BP5047A24-ND	24V, 150mA AC/DC Converter	12-SIP	5.36	4.29	3.34
BP5048-ND	12V, 300mA AC/DC Converter	12-SIP	4.50	3.60	2.80
BP5048-15-ND	15V, 200mA AC/DC Converter	12-SIP	4.68	3.75	2.92
BP5048-24-ND	24V, 200mA AC/DC Converter	12-SIP	5.14	4.12	3.47
BP5061-ND	-12V, 300mA AC/DC Converter	12-SIP	5.09	4.07	3.17
BP5061-5-ND	-5V, 350mA AC/DC Converter	12-SIP	4.91	3.93	3.06
BP5062A-ND	-12V, 500mA AC/DC Converter	12-SIP	5.70	4.56	3.85
BP5062A5-ND	-5V, 500mA AC/DC Converter	12-SIP	5.54	4.43	3.45
BP5063-5-ND	5V, 200mA AC/DC Converter	10-SIP	6.72	5.38	4.54
BP5065C-ND	-12V, 90mA AC/DC Converter	9-SIP	4.95	3.96	3.08
BP5065C5-ND	-5V, 100mA AC/DC Converter	9-SIP	3.47	2.78	2.16
BP5067-12-ND	12V, 350mA AC/DC Converter	12-SIP	5.29	4.23	3.29
BP5067-15-ND	15V, 300mA AC/DC Converter	12-SIP	5.24	4.20	3.27
BP5068A-ND	-12V, 800mA AC/DC Converter	12-SIP	6.08	4.87	4.11
BP5068A24-ND	-24V, 600mA AC/DC Converter	12-SIP	5.70	4.56	3.85
BP5081A15-ND	15V/5V, 80mA/350mA, Dual AC/DC Converter	14-SIP	6.32	5.06	4.27
BP5085-15-ND	15V/5V, 80mA/350mA, Dual AC/DC Converter	16-SIP	8.00	6.40	5.40
BP5220A-ND	5V, 1A DC/DC Converter	9-SIP	5.18	4.15	3.50
BP5221A-ND	5V, 0.5A DC/DC Converter	9-SIP	5.09	4.07	3.17
BP5222A-ND	12V, 500mA DC/DC Converter	9-SIP	5.15	4.13	3.21
BP5223-ND	5V, 150mA DC/DC Converter	5-SIP	2.43	1.95	1.52
BP5232A25-ND	5V, 2A DC/DC Converter* ***NEW!***	10-SIP	6.70	5.36	4.53
BP5232A33-ND	5V, 2A DC/DC Converter* ***NEW!***	10-SIP	6.70	5.36	4.53
BP5234A33-ND	5V, 3A DC/DC Converter* ***NEW!***	11-SIP	9.18	7.35	6.20
BP5302A-ND	-24V, 30mA DC/DC Converter for LCDs	9-SIP	4.32	3.46	2.69
BP5302XA-ND	-24V, 30mA DC/DC Converter for LCDs	9LF-SIP	6.42	5.14	4.34
BP5310A-ND	12V, PCMCIA/Flash Memory Power Supply	9-SIP	5.82	4.66	3.93
BP5311XA-ND	30V, 25mA DC/DC Converter for LCDs	9LF-SIP	6.98	5.59	4.72
BP5313A-ND	40V, 60mA DC/DC Converter for LCDs	11-SIP	6.70	5.36	4.53
BP5319-ND	-24V, 30mA DC/DC Converter for LCDs	9-SIP	4.55	3.64	2.83
BP5319X-ND	-24V, 30mA DC/DC Converter for LCDs	9LF-SIP	4.55	3.64	2.83
BP5450-ND	1.5 to 5V, 1.2A DC/DC Converter	18-SIP	12.33	11.10	9.85
BP5801-ND	High Efficiency Switching Type Motor Driver	9-SIP	5.31	4.25	3.31
BU2092F-E2CT-ND	12-Bit, Serial Input, Parallel Output Driver	18-SOP	1.35	1.13	.90
BU2092F-E2TR-ND	12-Bit, Serial Input, Parallel Output Driver	18-SOP	1198.00/2,000		

Memory

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
BR24L01A-W-ND	128x8-Bit Serial EEPROM	8-Dip	.80	.60	.45
BR24L01AF-WE2CT-ND	128x8-Bit Serial EEPROM	8-SOP	.55	.44	.33
BR24L01AF-WE2TR-ND	128x8-Bit Serial EEPROM	8-SOP	372.50/2,500		
BR24L01AFV-WE2CT-ND	128x8-Bit Serial EEPROM	B8-SSOP	.48	.36	.27
BR24L01AFV-WE2TR-ND	128x8-Bit Serial EEPROM	B8-SSOP	390.00/2,500		
BR24L01AFVM-WCT-ND	128x8-Bit Serial EEPROM	8-MSOP	.52	.39	.30
BR24L01AFVM-WTR-ND	128x8-Bit Serial EEPROM	8-MSOP	507.00/3,000		
BR24L02-W-ND	256x8-Bit Serial EEPROM	8-Dip	.80	.60	.45
BR24L02F-WE2CT-ND	256x8-Bit Serial EEPROM	8-SOP	.48	.36	.27
BR24L02F-WE2TR-ND	256x8-Bit Serial EEPROM	8-SOP	390.00/2,500		
BR24L02FV-WE2CT-ND	256x8-Bit Serial EEPROM	B8-SSOP	.55	.44	.33
BR24L02FV-WE2TR-ND	256x8-Bit Serial EEPROM	B8-SSOP	372.50/2,500		
BR24L02FVM-WCT-ND	256x8-Bit Serial EEPROM	8-MSOP	.52	.39	.30
BR24L02FVM-WTR-ND	256x8-Bit Serial EEPROM	8-MSOP	507.00/3,000		
BR24L04-W-ND	512x8-Bit Serial EEPROM	8-Dip	.88	.66	.50
BR24L04F-WE2CT-ND	512x8-Bit Serial EEPROM	8-SOP	.72	.54	.41
BR24L04F-WE2TR-ND	512x8-Bit Serial EEPROM	8-SOP	585.00/2,500		
BR24L04FV-WE2CT-ND	512x8-Bit Serial EEPROM	B8-SSOP	.72	.54	.41
BR24L04FV-WE2TR-ND	512x8-Bit Serial EEPROM	B8-SSOP	585.00/2,500		
BR24L04FVM-WCT-ND	512x8-Bit Serial EEPROM	8-MSOP	.72	.54	.41
BR24L04FVM-WTR-ND	512x8-Bit Serial EEPROM	8-MSOP	702.00/3,000		
BR24L08-W-ND	1024x8-Bit Serial EEPROM	8-Dip	.96	.72	.54
BR24L08F-WE2CT-ND	1024x8-Bit Serial EEPROM	8-SOP	.72	.54	.41
BR24L08F-WE2TR-ND	1024x8-Bit Serial EEPROM	8-SOP	585.00/2,500		
BR24L08FV-WE2CT-ND	1024x8-Bit Serial EEPROM	B8-SSOP	.72	.54	.41
BR24L08FV-WE2TR-ND	1024x8-Bit Serial EEPROM	B8-SSOP	585.00/2,500		
BR24L08FVM-WCT-ND	1024x8-Bit Serial EEPROM	8-MSOP	.72	.54	.41
BR24L08FVM-WTR-ND	1024x8-Bit Serial EEPROM	8-MSOP	702.00/3,000		
BR24L16-W-ND	2Kx8-Bit Serial EEPROM	8-Dip	.78	.65	.52
BR24L16F-WE2CT-ND	2Kx8-Bit Serial EEPROM	8-SOP	.84	.63	.48
BR24L16F-WE2TR-ND	2Kx8-Bit Serial EEPROM	8-SOP	682.50/2,500		
BR24L16FV-WE2CT-ND	2Kx8-Bit Serial EEPROM	B8-SSOP	.84	.63	.48
BR24L16FV-WE2TR-ND	2Kx8-Bit Serial EEPROM	B8-SSOP	682.50/2,500		
BR24L16FVM-WCT-ND	2Kx8-Bit Serial EEPROM	8-MSOP	.84	.63	.48
BR24L16FVM-WTR-ND	2Kx8-Bit Serial EEPROM	8-MSOP	819.00/3,000		
BR24L32-W-ND	4Kx8-Bit Serial EEPROM	8-Dip	1.44	1.20	.96
BR24L32F-WE2CT-ND	4Kx8-Bit Serial EEPROM	8-SOP	1.02	.85	.68
BR24L32F-WE2TR-ND	4Kx8-Bit Serial EEPROM	8-SOP	1105.00/2,500		
BR24L32FV-WE2CT-ND	4Kx8-Bit Serial EEPROM	B8-SSOP	1.02	.85	.68
BR24L32FV-WE2TR-ND	4Kx8-Bit Serial EEPROM	B8-SSOP	1105.00/2,500		
BR24L64-W-ND	8Kx8-Bit Serial EEPROM	8-Dip	1.47	1.23	.98
BR24L64F-WE2CT-ND	8Kx8-Bit Serial EEPROM	8-SOP	1.32	1.10	.88
BR24L64F-WE2TR-ND	8Kx8-Bit Serial EEPROM	8-SOP	1430.00/2,500		
BR34L02FV-WE2CT-ND	256x8-Bit Serial EEPROM	B8-SSOP	.48	.36	.27
BR34L02FV-WE2TR-ND	256x8-Bit Serial EEPROM	B8-SSOP	390.00/2,500		
BR93L46-W-ND	64x16-Bit Serial EEPROM	8-Dip	.72	.54	.41
BR93L46F-WE2CT-ND	64x16-Bit Serial EEPROM	8-SOP	.64	.48	.36
BR93L46F-WE2TR-ND	64x16-Bit Serial EEPROM	8-SOP	520.00/2,500		
BR93L46FV-WE2CT-ND	64x16-Bit Serial EEPROM	B8-SSOP	.64	.48	.36
BR93L46FV-WE2TR-ND	64x16-Bit Serial EEPROM	B8-SSOP	520.00/2,500		
BR93L46RFVM-WCT-ND	64x16-Bit Serial EEPROM	8-MSOP	.64	.48	.36
BR93L46RFVM-WTR-ND	64x16-Bit Serial EEPROM	8-MSOP	624.00/3,000		
BR93L56-W-ND	128x16-Bit Serial EEPROM	8-Dip	.88	.66	.50
BR93L56F-WE2CT-ND	128x16-Bit Serial EEPROM	8-SOP	.64	.48	.36
BR93L56F-WE2TR-ND	128x16-Bit Serial EEPROM	8-SOP	520.00/2,500		
BR93L56FV-WE2CT-ND	128x16-Bit Serial EEPROM	B8-SSOP	.64	.48	.36
BR93L56FV-WE2TR-ND	128x16-Bit Serial EEPROM	B8-SSOP	520.00/2,500		
BR93L56RFVM-WCT-ND	128x16-Bit Serial EEPROM	8-MSOP	.64	.48	.36
BR93L56RFVM-WTR-ND	128x16-Bit Serial EEPROM	8-MSOP	624.00/3,000		
BR93L66-W-ND	256x16-Bit Serial EEPROM	8-Dip	.75	.63	.50
BR93L66F-WE2CT-ND	256x16-Bit Serial EEPROM	8-SOP	.80	.60	.45
BR93L66F-WE2TR-ND	256x16-Bit Serial EEPROM	8-SOP	650.00/2,500		
BR93L66FV-WE2CT-ND	256x16-Bit Serial EEPROM	B8-SSOP	.80	.60	.45
BR93L66FV-WE2TR-ND	256x16-Bit Serial EEPROM	B8-SSOP	650.00/2,500		
BR93L66RFVM-WCT-ND	256x16-Bit Serial EEPROM	8-MSOP	.80	.60	.45
BR93L66RFVM-WTR-ND	256x16-Bit Serial EEPROM	8-MSOP	780.00/3,000		
BR93L76-W-ND	512Kx16-Bit Serial EEPROM	8-Dip	.93	.78	.62
BR93L76F-WE2CT-ND	512Kx16-Bit Serial EEPROM	8-SOP	.80	.60	.45
BR93L76F-WE2TR-ND	512Kx16-Bit Serial EEPROM	8-SOP	650.00/2,500		
BR93L76RFV-WE2CT-ND	512Kx16-Bit Serial EEPROM	B8-SSOP	.88	.66	.50
BR93L76RFV-WE2TR-ND	512Kx16-Bit Serial EEPROM	B8-SSOP	715.00/2,500		
BR93L76RFVM-WCT-ND	512Kx16-Bit Serial EEPROM	8-MSOP	.88	.66	.50
BR93L76RFVM-WTR-ND	512Kx16-Bit Serial EEPROM	8-MSOP	858.00/3,000		
BR93L86-W-ND	1Kx16-Bit Serial EEPROM	8-Dip	1.26	1.05	.84
BR93L86F-WE2CT-ND	1Kx16-Bit Serial EEPROM	8-SOP	.88	.66	.50
BR93L86F-WE2TR-ND	1Kx16-Bit Serial EEPROM	8-SOP	715.00/2,500		
BR93L86RFV-WE2CT-ND	1Kx16-Bit Serial EEPROM	B8-SSOP	.75	.63	.50
BR93L86RFV-WE2TR-ND	1Kx16-Bit Serial EEPROM	B8-SSOP	812.50/2,500		
BR93L86RFVM-WCT-ND	1Kx16-Bit Serial EEPROM	8-MSOP	.75	.63	.50
BR93L86RFVM-WTR-ND	1Kx16-Bit Serial EEPROM	8-MSOP	975.00/3,000		

International Rectifier CONTROL / POWER INTEGRATED CIRCUITS

Driver ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IP1001-ND	20A, Full Function Sync. Buck Power Block	14x14mm BGA	26.68	22.02	18.68
IP1001TR-ND	20A, Full Function Sync. Buck Power Block	14x14mm BGA	12806.25/750		
IP1201-ND	30A, Dual Out Full Function 2-Phase Sync. Buck Power Block	15.5x9.25x2.6mm BGA	20.10	16.08	13.07
IP1201TR-ND	30A, Dual Out Full Function 2-Phase Sync. Buck Power Block	15.5x9.25x2.6mm BGA	9610.50/750		
IP1202-ND	30A, Dual Out Full Function 2-Phase Sync. Buck Power Block	15.5x9.25x2.6mm BGA	20.10	16.08	13.07
IP1202TR-ND	30A, Dual Out Full Function 2-Phase Sync. Buck Power Block	15.5x9.25x2.6mm BGA	9610.50/750		
IP1203-ND	15A, Single Out Full Function Sync. Buck Power Block	9x9x2.3mm BGA	11.97	—	—
IP2001-ND	20A, Sync. Buck Multiphase Optimized BGA Power Block	144-BGA	13.36	10.55	9.50
IP2002-ND	30A, Sync. Buck Multiphase Optimized BGA Power Block	8-BGA	16.25	12.00	11.03
IP2002TR-ND	30A, Sync. Buck Multiphase Optimized BGA Power Block	8-BGA	9869.00/1,000		
IP2003-ND	40A, Sync. Buck Multiphase Optimized LGA Power Block	11x11mm LGA	17.89	12.72	11.53

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IP2003A-ND	40A, Sync. Buck Multiphase Optimized LGA Power Block	9x11x2.2mm LGA	17.49	12.72	11.13
IP2003ACT-ND	40A, Sync. Buck Multiphase Optimized LGA Power Block	9x11x2.2mm LGA	17.89	13.92	11.53
IP2003ATR-ND	40A, Sync. Buck Multiphase Optimized LGA Power Block	9x11x2.2mm LGA	9938.00/1,000		
IPS031S-ND	Low Side Driver	D2-PAK	3.60	2.88	2.07
IPS5551T-ND	High Side Driver	TO-220	9.00	7.20	5.18
IR51H224-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.38	3.50	2.70
IR51H310-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.13	3.30	2.54
IR51H420-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.88	3.90	3.00
IR53HD420-ND	Self-Oscillating Half-Bridge Driver	9-Sip	4.98	3.98	3.06
IR1176-ND	5V, 4A, Synchronous Rectifier Driver	20-PDip	7.63	5.24	4.58
IR1176S-ND	5V, 4A, Synchronous Rectifier Driver	20-SSOP	7.75	5.32	4.65
IR2010PBF-ND	High and Low Side Driver*	14-Dip	4.50	3.00	2.63
IR2011SPBFCT-ND	High and Low Side Driver*	8-SOIC	4.05	2.50	2.16
IR2011SPBFTR-ND	High and Low Side Driver*	8-SOIC	4557.50/2,500		
IR2085S-ND	Self-Oscillating Half-Bridge Driver	8-SOIC	3.99	2.61	2.30
IR2085SPBFCT-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	4.35	2.69	2.32
IR2085SPBFTR-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	4895.00/2,500		
IR2101PBF-ND	High and Low Side Driver*	8-Dip	3.05	1.88	1.63
IR2101S-ND	High and Low Side Driver	8-SOIC	2.40	1.92	1.48
IR2101SPBFCT-ND	High and Low Side Driver*	8-SOIC	4.14	2.56	2.21
IR2101SPBFTR-ND	High and Low Side Driver*	8-SOIC	4657.50/2,500		
IR2102-ND	High and Low MOS Driver	8-Dip	3.00	2.40	1.85
IR2102S-ND	High and Low MOS Driver	8-SOIC	3.33	2.66	2.05
IR2103PBF-ND	High and Low MOS Driver*	8-Dip	3.60	2.22	1.92
IR2103S-ND	High and Low MOS Driver	8-SOIC	2.40	1.92	1.48
IR2103SPBFCT-ND	High and Low MOS Driver*	8-SOIC	4.14	2.56	2.21
IR2103SPBFTR-ND	High and Low MOS Driver*	8-SOIC	4657.50/2,500		
IR2104-ND	High and Low Side Driver	8-Dip	3.11	1.93	1.70
IR2104PBF-ND	High and Low Side Driver*	8-Dip	3.23	1.99	1.72
IR2104S-ND	High and Low Side Driver	8-SOIC	1.60	1.28	.99
IR2104SPBFCT-ND	High and Low Side Driver*	8-SOIC	1.92	1.19	1.03
IR2104SPBFTR-ND	High and Low Side Driver*	8-SOIC	2160.00/2,500		
IR2106PBF-ND	High and Low Side Driver*	8-Dip	3.96	2.45	2.12
IR2106S-ND	High and Low Side Driver	8-SOIC	3.38	2.70	2.08
IR2106SPBFCT-ND	High and Low Side Driver*	8-SOIC	4.20	2.59	2.24
IR2106SPBFTR-ND	High and Low Side Driver*	8-SOIC	4725.00/2,500		
IR2107-ND	High and Low Side Driver	8-Dip	2.97	2.38	1.79
IR2108PBF-ND	High and Low Side Driver*	8-Dip	3.96	2.45	2.12
IR2108S-ND	High and Low Side Driver	8-SOIC	3.38	2.70	2.08
IR2108SPBFCT-ND	High and Low Side Driver*	8-SOIC	4.20	2.59	2.24
IR2108SPBFTR-ND	High and Low Side Driver*	8-SOIC	4725.00/2,500		
IR2109-ND	Half-Bridge Driver	8-Dip	3.30	2.64	2.03
IR2109PBF-ND	Half-Bridge Driver*	8-Dip	3.96	2.45	2.12
IR2109S-ND	Half-Bridge Driver	8-SOIC	3.38	2.70	2.08
IR2109SPBFCT-ND	Half-Bridge Driver*	8-SOIC	1.95	1.21	1.04
IR2109SPBFTR-ND	Half-Bridge Driver*	8-SOIC	2195.00/2,500		
IR2110-ND	High and Low Side Driver	14-Dip	5.13	3.33	2.97
IR2110-1PBF-ND	High and Low Side Driver*	14-Dip	5.60	3.27	2.80
IR2110-2PBF-ND	High and Low Side Driver*	14-Dip	7.32	4.27	3.91
IR2110PBF-ND	High and Low Side Driver*	14-Dip	5.85	3.61	3.12
IR2110S-ND	High and Low Side Driver	16-SOIC	4.00	3.20	2.47
IR2110SPBFCT-ND	High and Low Side Driver*	16-SOIC	4.80	2.96	2.56
IR2110SPBFTR-ND	High and Low Side Driver*	16-SOIC	2320.00/1,000		
IR2111-ND	Half-Bridge Driver	8-Dip	2.58	1.61	1.42
IR2111S-ND	Half-Bridge Driver	8-SOIC	1.88	1.50	1.16
IR2111SPBFCT-ND	Half-Bridge Driver*	8-SOIC	2.25	1.39	1.20
IR2111SPBFTR-ND	Half-Bridge Driver*	8-SOIC	2532.50/2,500		
IR2111STR-ND	Half-Bridge Driver	8-SOIC	2532.50/2,500		
IR2112-ND	High and Low Side Driver	14-Dip	2.46	1.78	1.70
IR2112-1PBF-ND	High and Low Side Driver*	14-Dip	4.53	2.80	2.42
IR2112-2PBF-ND	High and Low Side Driver*	16-Dip	5.04	3.36	2.69
IR2112S-ND	High and Low Side Driver	16-SOIC	3.00	2.40	1.85
IR2112STR-ND	High and Low Side Driver	16-SOIC	2138.00/1,000		
IR2112SPBFCT-ND	High and Low Side Driver*	16-SOIC	4.83	2.98	2.58
IR2112SPBFTR-ND	High and Low Side Driver*	16-SOIC	2254.00/1,000		
IR2113-ND	High and Low Side Driver	14-Dip	5.61	3.68	3.29
IR2113-1PBF-ND	High and Low Side Driver*	14-Dip	6.45	4.31	3.45
IR2113-2PBF-ND	High and Low Side Driver*	14-Dip	6.59	3.85	3.52
IR2113S-ND	High and Low Side Driver	16-SOIC	4.38	3.50	2.69
IR2113SPBFCT-ND	High and Low Side Driver*	16-SOIC	7.23	4.46	3.86
IR2113SPBFTR-ND	High and Low Side Driver*	16-SOIC	3374.00/1,000		
IR2114SS-ND	Half-Bridge Gate Driver	24-SSOP	8.97	6.48	5.85
IR2117-ND	Single-Channel Driver	8-Dip	1.88	1.37	1.30
IR2117S-ND	Single-Channel Driver	8-SOIC	2.34	1.88	1.44
IR2117STR-ND	Single-Channel Driver	8-SOIC	4387.50/2,500		
IR2117SPBFCT-ND	Single-Channel Driver*	8-SOIC	3.90	2.41	2.08
IR2117SPBFTR-ND	Single-Channel Driver*	8-SOIC	4387.50/2,500		
IR2118-ND	High Side Driver	8-Dip	2.40	1.92	1.48
IR2118S-ND	High Side Driver	8-SOIC	2.57	2.06	1.58
IR2118SPBFCT-ND	High Side Driver*	8-SOIC	3.90	2.41	2.08
IR2118SPBFTR-ND	High Side Driver*	8-SOIC	4387.50/2,500		
IR2121PBF-ND	Current Limiting Low Side Driver*	8-Dip	4.65	2.72	2.48
IR2122-ND	High Side Driver	8-Dip	4.75	3.80	2.93
IR2125-ND	Current Limiting Single-Channel Driver	8-Dip	3.73	2.71	2.58
IR2125S-ND	Current Limiting Single-Channel Driver	16-SOIC	4.80	3.84	2.96
IR2127-ND	Current Sensing Single-Channel Driver	8-Dip	3.80	2.74	2.62
IR2127S-ND	Current Sensing Single-Channel Driver	8-SOIC	2.38	1.90	1.47
IR2127SPBFCT-ND	Current Sensing Single-Channel Driver*	8-SOIC	2.85	1.76	1.52
IR2127SPBFTR-ND	Current Sensing Single-Channel Driver*	8-SOIC	3207.50/2,500		
IR2127STR-ND	Current Sensing Single-Channel Driver	8-SOIC	3207.50/2,500		
IR2128-ND	High Side Driver	8-Dip	4.25	3.40	2.62
IR2128PBF-ND	High Side Driver*	8-Dip	5.10	3.15	2.72
IR2128S-ND	High Side Driver	8-SOIC	4.75	3.80	2.93
IR2130-ND	3-Phase Bridge Driver	28-Dip	11.93	8.60	8.22
IR2130J-ND	3-Phase Bridge Driver	44-PLCC	14.25	11.40	8.78
IR2130JPBF-ND	3-Phase Bridge Driver*	44-PLCC	12.83	9.12	8.27
IR2130S-ND	3-Phase Bridge Driver	28-SOIC	10.83	8.67	6.68
IR2131-ND	Triple High and Low Side Driver	28-Dip	13.35	10.68	8.22
IR2131J-ND	Triple High and Low Side Driver	44-PLCC	14.25	11.40	8.78
IR2131S-ND	Triple High and Low Side Driver	28-SOIC	14.25	11.40	8.78
IR2132-ND	3-Phase Bridge Driver	28-Dip	13.35	10.68	8.22
IR2132S-ND	3-Phase Bridge Driver	28-SOIC	14.25	11.40	8.78
IR2132SPBFCT-ND	3-Phase Bridge Driver*	28-SOIC	13.10	9.32	8.44
IR2132SPBFTR-ND	3-Phase Bridge Driver*	28-SOIC	7566.00/1,000		
IR2133-ND	3-Phase Bridge Driver	28-Dip	14.25	11.40	8.78
IR2133J-ND	3-Phase Bridge Driver	44-PLCC	13.18	9.53	9.09
IR2133JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	13.61	9.68	8.78
IR2133JPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	4084.00/500		
IR2135-ND	3-Phase Bridge Driver	28-Dip	14.25	11.40	8.78
IR2135J-ND	3-Phase Bridge Driver	44-PLCC	14.75	11.80	9.09
IR2135S-ND	3-Phase Bridge Driver	28-SOIC	14.25	11.40	8.78
IR2135SPBFCT-ND	3-Phase Bridge Driver*	28-SOIC	13.05	9.28	8.41
IR2135SPBFTR-ND	3-Phase Bridge Driver*	28-SOIC	7540.00/1,000		
IR2136-ND	3-Phase Bridge Driver	28-Dip	7.60	5.49	5.24
IR2136J-ND	3-Phase Bridge Driver	44-PLCC	8.75	7.00	5.39
IR2136JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	9.05	6.34	5.43
IR2136JPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	2534.00/500		
IR2136S-ND	3-Phase Bridge Driver	28-SOIC	8.50	6.80	5.24
IR2136SPBFCT-ND	3-Phase Bridge Driver*	28-SOIC	8.75	6.13	5.25
IR2136SPBFTR-ND	3-Phase Bridge Driver*	28-SOIC	4725.00/1,000		
IR2151-ND	Half-Bridge Driver	8-Dip	3.00	2.40	1.85
IR2151S-ND	Half-Bridge Driver	8-SOIC	3.33	2.66	2.05
IR2151STR-ND	Half-Bridge Driver	8-SOIC	4657.50/2,500		
IR2153D-ND	Self-Oscillating Half-Bridge Driver	8-Dip	3.31	2.33	1.86
IR2153PBF-ND	Self-Oscillating Half-Bridge Driver*	8-Dip	2.64	1.63	1.41
IR2153S-ND	Self-Oscillating Half-Bridge Driver	8-SOIC	1.68	1.34	1.04
IR2153SPBFCT-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	4.14	2.56	2.21
IR2153SPBFTR-ND	Self-Oscillating Half-Bridge Driver*	8-SOIC	4657.50/2,500		
IR2153STR-ND	Self-Oscillating Half-Bridge Driver	8-SOIC	4657.50/2,500		
IR2155PBF-ND	Self-Oscillating Half-Bridge Driver*	8-Dip	3.95	2.44	2.11
IR2172-ND	Current Sensing Motor Drive	8-Dip	7.00	5.60	4.20
IR2172SPBF-ND	Current Sensing Motor Driver*	8-SOIC	7.13	4.99	4.28
IR2175PBF-ND	Linear Current Sensing IC*	8-Dip	6.25	4.38	3.75
IR2175SPBFCT-ND	Linear Current Sensing IC*	8-SOIC	6.50	4.55	3.90
IR2175SPBFTR-ND	Linear Current Sensing IC*	8-SOIC	8450.00/2,500		
IR2181PBF-ND	High and Low Side Driver*	8-Dip	4.50	2.78	2.40
IR2181S-ND	High and Low Side Driver	8-SOIC	4.34	2.79	2.52
IR2181SPBFCT-ND	High and Low Side Driver*	8-SOIC	4.80	2.96	2.56
IR2181SPBFTR-ND	High and Low Side Driver*	8-SOIC	5400.00/2,500		
IR2182-ND	High and Low Side Driver	8-Dip	3.38	2.70	2.03
IR2183PBF-ND	Half-Bridge Driver*	8-Dip	4.50	2.78	2.40
IR2183SPBFCT-ND	Half-Bridge Driver*	8-SOIC	4.80	2.96	2.56
IR2183SPBFTR-ND	Half-Bridge Driver*	8-SOIC	5400.00/2,500		
IR2184PBF-ND	High and Low Side Driver*	8-Dip	4.05	2.50	2.16
IR2214SS-ND	Half-Bridge Gate Driver	24-SSOP	10.35	7.20	6.75
IR2233-ND	3-Phase Bridge Driver	28-Dip	37.50	30.00	23.10
IR2233J-ND	3-Phase Bridge Driver	44-PLCC	26.81	19.39	18.48
IR2233JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	24.10	18.08	16.87
IR2233JPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	8134.00/500		
IR2233S-ND	3-Phase Bridge Driver	28-SOIC	30.00	24.00	18.48
IR2235-ND	3-Phase Bridge Driver	28-Dip	37.50	30.00	23.10
IR2235J-ND	3-Phase Bridge Driver	44-PLCC	37.50	30.00	23.10
IR2235JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	30.30	22.73	21.21
IR2235JPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	10226.50/500		
IR2235S-ND	3-Phase Bridge Driver	28-SOIC	37.50	30.00	23.10
IR2301-ND	High and Low Side Driver	8-Dip	3.00	1.85	1.63
IR2301PBF-ND	High and Low Side Driver*	8-Dip	3.00	1.85	1.60
IR2301S-ND	High and Low Side Driver	8-SOIC	3.06	1.89	1.67
IR2301SPBFCT-ND	High and Low Side Driver*	8-SOIC	3.18	1.97	1.70
IR2301SPBFTR-ND	High and Low Side Driver*	8-SOIC	3577.50/2,500		
IR2302PBF-ND	Half-Bridge Driver*	8-Dip	3.00	1.85	1.60
IR2520DPBF-ND	Adaptive Ballast Control IC*	8-Dip	2.97	1.98	1.74
IR3080M-ND	XPHASE™ VRD10 Controller	32-MLPQ	3.78	2.47	2.19
IR3080MPBFCT-ND	XPHASE™ VRD10 Controller*	32-MLPQ	4.05	2.50	2.16
IR3080MPBFTR-ND	XPHASE™ VRD10 Controller*	32-MLPQ	5469.00/3,000		
IR3081AMPBF-ND	XPHASE™ VR10.0 Controller*	28-MLPQ	3.77	2.47	2.20
IR3081AMPBFCT-ND	XPHASE™ VR10.0 Controller*	28-MLPQ	4.11	2.74	2.20
IR3081AMPBFTR-ND	XPHASE™ VR10.0 Controller*	28-MLPQ	6165.00/3,000		
IR3081M-ND	XPHASE™ VR10.0 Controller	28-MLPQ	3.90	2.53	2.24
IR3086M-ND	XPHASE™ Controller	20-MLPQ	2.79	1.71	1.49
IR3087M-ND	XPHASE™ with OPTI-PHASE™, OVP, Over Temperature	20L-MLPQ	2.82	1.65	1.46
IR3087MPBFCT-ND	XPHASE™ with OPTI-PHASE™, OVP, Over Temp.*	20L-MLPQ	3.08	1.76	1.54
IR3087MPBFTR-ND	XPHASE™ with OPTI-PHASE™, OVP, Over Temp.*	20L-MLPQ	3696.00/3,000		
IR3092M-ND	2-Phase Opteron, Athlon, or VR10.X Control IC	48-MLPQ	6.36	3.93	3.52
IR3094MPBFCT-ND	3-Phase PWM Controller for Point of Load*	48-MLPQ	7.02	4.68	3.75
IR3094MPBFTR-ND	3-Phase PWM Controller for Point of Load*	48-MLPQ	9126.00/3,000		
IR3101-ND	1.6A, 500V Half-Bridge FredFET Driver	9-Sip	6.25	4.13	3.75
IR3103-ND	0.75A, 500V Gate Driver with Half-Bridge FredFET Driver	9-Sip	5.54	3.95	3.41
IR3220S-ND	Fully Protected Half-Bridge for DC Motor	20-SOIC	7.25	4.93	4.35
IR4426-ND	Low Side Driver	8-Dip	1.78	1.42	.95
IR4426S-ND	Low Side Driver	8-SOIC	1.91	1.53	1.15
IR4427-ND	Low Side Driver	8-Dip	2.52	1.44	1.26
IR4427PBF-ND	Low Side Driver*	8-Dip	2.52	1.44	1.26
IR4427S-ND	Low Side Driver	8-SOIC	1.91	1.53	1.15
IR4427SPBFCT-ND	Low Side Driver*	8-SOIC	3.15	1.80	1.58
IR4427SPBFTR-ND	Low Side Driver*	8-SOIC	3262.50/2,500		
IR4428-ND	Low Side Driver	8-Dip	1.80	1.44	1.08
IR4428S-ND	Low Side Driver	8-SOIC	1.91	1.53	1.15
IR4428SPBFCT-ND	Low Side Driver*	8-SOIC	3.15	1.80	1.58
IR4428SPBFTR-ND	Low Side Driver*	8-SOIC	3262.50/2,500		
IR6210-ND	High Side Driver	TO-220-5	4.98	3.98	3.06
IR6210S-ND	High Side Driver	TO-220-5	4.39	3.51	2.71
IR6216-ND	High Side Driver	TO-220-5	4.98	3.98	3.06
IR6220-ND	High Side Driver	TO-220-5	4.63	3.70	3.24
IR6220S-ND	High Side Driver	TO-220-5	3.50	2.80	2.16
IR6220STRL-ND	High Side Driver	TO-220-5	1512.00/800		
IR21064PBF-ND	High and Low Side Driver*	14-Dip	4.05	2.50	2.16
IR21064S-ND	High and Low Side Driver	14-SOIC	3.43	2.74	2.11
IR21064SPBFCT-ND	High and Low Side Driver*	14-SOIC	4.29	2.65	2.29
IR21064SPBFTR-ND	High and Low Side Driver*	14-SOIC	4827.50/2,500		
IR21074-ND	High and Low Side Driver	14-Dip	3.45	2.76	2.13
IR21084PBF-ND	High and Low Side Driver*	14-Dip	4.05	2.50	2.16
IR21084S-ND	High and Low Side Driver	14-SOIC	3.43	2.74	2.11

* **RoHS Compliant**

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

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CONTROL / POWER INTEGRATED CIRCUITS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IR21084SPBFCT-ND	High and Low Side Driver*	14-SOIC	4.29	2.65	2.29
IR21084SPBFTR-ND	High and Low Side Driver*	14-SOIC	4827.50/2,500		
IR21094-ND	Half-Bridge Driver	14-Dip	2.13	1.70	1.31
IR21271-ND	600V, 200/420mA Current Sensing Single Channel Driver	8-Dip	4.76	3.06	2.76
IR21271S-ND	600V, 200/420mA Current Sensing Single Channel Driver	8-SOIC	5.23	3.42	3.04
IR21271SPBFCT-ND	600V, 200/420mA Current Sensing Single Ch. Driver*	8-SOIC	5.85	3.61	3.12
IR21271SPBFTR-ND	600V, 200/420mA Current Sensing Single Ch. Driver*	8-SOIC	6582.50/2,500		
IR21362-ND	3-Phase Bridge Driver	28-Dip	8.50	6.80	5.24
IR21362JPBFCT-ND	3-Phase Bridge Driver*	44-PLCC	9.05	6.34	5.43
IR21362JPBFTR-ND	3-Phase Bridge Driver*	44-PLCC	2534.00/500		
IR21362S-ND	3-Phase Bridge Driver	28-SOIC	8.50	6.80	5.24
IR21362SPBFCT-ND	3-Phase Bridge Driver*	28-SOIC	8.75	6.13	5.25
IR21362SPBFTR-ND	3-Phase Bridge Driver*	28-SOIC	4725.00/1,000		
IR21368PBF-ND	3-Phase Bridge Driver*	28-Dip	8.50	5.95	5.10
IR21531-ND	Half-Bridge Driver	8-Dip	3.13	2.50	1.93
IR21531D-ND	Self-Oscillating Half-Bridge Driver	8-Dip	2.90	2.33	1.75
IR21531S-ND	Half-Bridge Driver	8-SOIC	3.18	2.54	1.96
IR21531SPBFCT-ND	Half-Bridge Driver*	8-SOIC	3.90	2.41	2.08
IR21531SPBFTR-ND	Half-Bridge Driver*	8-SOIC	4387.50/2,500		
IR21571-ND	Ballast Control	16-Dip	4.50	3.60	2.77
IR21571PBF-ND	Ballast Control*	16-Dip	5.40	3.33	2.88
IR21571S-ND	Ballast Control	16-SOIC	4.63	3.70	2.86
IR21571SPBF-ND	Ballast Control*	16-SOIC	5.09	3.24	2.96
IR21592-ND	Dimming Ballast Control	16-Dip	5.89	3.71	3.45
IR21592SPBF-ND	Dimming Ballast Control*	16-SOIC	6.13	3.91	3.57
IR21593-ND	Dimming Ballast Control	16-Dip	5.89	3.71	3.45
IR21593S-ND	Dimming Ballast Control	16-SOIC	6.02	3.80	3.53
IR21824-ND	High and Low Side Driver	14-Dip	3.49	2.79	2.10
IR21824S-ND	High and Low Side Driver	14-SOIC	3.60	2.88	2.16
IR21844-ND	High and Low Side Driver	14-Dip	3.49	2.79	2.10
IR22141SS-ND	Half-Bridge Gate Driver	24-SSOP	10.35	7.20	6.75
IRAMS06UP60A-ND	600V, 6A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	21.32	16.24	14.21
IRAMS06UP60B-ND	600V, 6A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	22.26	16.43	15.06
IRAMS10UP60A-ND	600V, 10A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	23.42	17.29	15.84
IRAMS10UP60B-ND	600V, 10A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	23.40	17.91	16.38
IRAMX16UP60A-ND	600V, 16A Plug N Drive™ Integrated Power Module for Appliance Motor Drive	Module	31.70	25.36	22.19
IRSF3011-ND	Low Side Driver	TO-220AB	4.38	3.50	2.70
IRSF3011L-ND	Low Side Driver	SOT-223	3.50	2.80	2.16
IRSF3021-ND	Low Side Driver	TO-220AB	4.13	3.30	2.54
IRSF3031-ND	Low Side Driver	TO-220AB	4.13	3.30	2.54

Switching ICs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IPS021-ND	Fully Protected Power MOSFET Switch	TO-220AB	2.00	1.60	1.16
IPS021S-ND	Fully Protected Power MOSFET Switch	SMD-220	2.40	1.92	1.38
IPS022GTR-ND	Dual Fully Protected Power MOSFET Switch	8-SOIC	4050.00/2,500		
IPS024G-ND	Low Side Driver	16-SOIC	4.97	3.98	2.86
IPS031-ND	Fully Protected Power MOSFET Switch	TO-220	3.04	2.55	1.96
IPS031G-ND	Single/Dual Fully Protected Power MOSFET Switch	8-SOIC	2.52	2.02	1.52
IPS511-ND	Fully Protected High-Side Power MOSFET Switch	TO-220-5	3.00	2.40	1.73
IPS511G-ND	Fully Protected High-Side Power MOSFET Switch	8-SOIC	2.03	1.23	1.08
IPS521-ND	Fully Protected High-Side Power MOSFET Switch	TO-220	3.75	3.15	2.42
IPS521F-ND	Fully Protected High-Side Power MOSFET Switch	TO-220-5	4.60	3.68	2.76
IPS0151-ND	Fully Protected Power MOSFET Switch	TO-220AB	4.20	3.36	2.42
IPS0551T-ND	Fully Protected Power MOSFET Switch	TO-220	8.00	6.40	4.80
IR1150SCT-ND	One Cycle Control PFC	8-SOIC	3.45	2.07	1.84
IR1150STR-ND	One Cycle Control PFC	8-SOIC	3737.50/2,500		
IR1150SPBFCT-ND	One Cycle Control PFC*	8-SOIC	3.45	2.30	1.84
IR1150SPBFTR-ND	One Cycle Control PFC*	8-SOIC	3737.50/2,500		
IR2156-ND	600V, 0.5A Ballast Control	14-PDip	3.30	2.13	1.92
IR2156PBF-ND	600V, 0.5A Ballast Control*	14-Dip	3.54	2.19	1.89
IR2156S-ND	600V, 0.5A Ballast Control	14-SOIC	3.36	2.16	1.95
IR2156SPBFCT-ND	600V, 0.5A Ballast Control*	14-SOIC	3.75	2.32	2.00
IR2156SPBFTR-ND	600V, 0.5A Ballast Control*	14-SOIC	4220.00/2,500		
IR2166PBF-ND	600V, 500mA PFC and Ballast Control*	16-Dip	4.35	2.69	2.32
IR2166S-ND	600V, 500mA PFC and Ballast Control	16-SOIC	3.68	2.94	2.36
IR2170-ND	600V, 1mA Over Current Sensing	8-PDip	5.63	3.86	3.38
IR2170S-ND	600V, 1mA Over Current Sensing	8-SOIC	5.75	3.95	3.45
IR2171-ND	600V, 1mA Linear Current Sensing	8-PDip	6.25	4.29	3.75
IR2171S-ND	600V, 1mA Linear Current Sensing	8-SOIC	6.38	4.38	3.83
IR2183S-ND	600V, Half Bridge Driver	8-SOIC	4.34	2.79	2.52
IR2304-ND	Half Bridge Driver	8-PDip	3.23	1.90	1.67
IR3311-ND	Programmable, Current Sensing, High Side Switch	TO-220-5	5.25	3.57	3.15
IR6224-ND	Intelligent High Side MOSFET Power Switch	TO-220	5.63	4.50	3.38
IR6226-ND	Intelligent High Side MOSFET Power Switch	TO-220-5	5.75	4.60	4.03
IR21814PBF-ND	600V, 1.7A High and Low Side Driver*	14-Dip	4.65	2.87	2.48
IR21814S-ND	600V, 1.7A High and Low Side Driver	14-SOIC	4.48	2.88	2.60
IR21814SPBFCT-ND	600V, 1.7A High and Low Side Driver*	14-SOIC	4.95	3.06	2.64
IR21814SPBFTR-ND	600V, 1.7A High and Low Side Driver*	14-SOIC	5570.00/2,500		
IR21834PBF-ND	600V, Half Bridge Driver*	14-Dip	4.65	3.10	2.48
IR21834SCT-ND	600V, Half Bridge Driver	14-SOIC	4.62	3.30	2.89
IR21834SPBFCT-ND	600V, Half Bridge Driver*	14-SOIC	4.95	3.06	2.64
IR21834SPBFTR-ND	600V, Half Bridge Driver*	14-SOIC	5570.00/2,500		
IRDCIP1001-A-ND	Single Phase Synchronous Buck Converter, 3.3V to 4.5V	—	368.75	—	—
IRIS4007-ND	Integrated Power Switch, 200V, 4A	TO-220-5	5.54	3.55	3.18
IRIS4011-ND	Integrated Power Switch, 650V, 2.7A	TO-220-5	5.54	3.55	3.18
IRIS4013-ND	Integrated Power Switch, 650V, 5.1A	TO-220-5	5.96	3.83	3.45
IRIS4013K-ND	Integrated Power Switch, 650V, 5.1A	TO-262-5	5.83	3.74	3.37
IRIS4015-ND	Integrated Power Switch, 650V, 8A	TO-220-5	6.44	4.29	3.88
IRMCK201-ND	High Performance Configurable Digital AC Servo Control	100-QFP	15.77	12.45	11.21
IRMCK203-ND	High Performance Sensorless Motion Control	80-QFP	20.90	15.68	13.59
IRMCS2011-ND	iMOTION™ Development System, Encoder Based Servo Drive Design Platform	—	2398.80	—	—
IRMCS2031-ND	iMOTION™ Develop System, Sensorless Drive Design Platform	—	2500.01	—	—
IRPLLNR3-ND	Universal Input Linear Fluorescent Ballast using the IR2167	—	250.00	—	—
IRPLLNR4-ND	Universal Input Linear Fluorescent Ballast using the IR2166	—	350.00	—	—
IRSF3010-ND	Fully Protected Power MOSFET Switch	TO-220AB	4.63	3.70	3.24
IRSF3010S-ND	Fully Protected Power MOSFET Switch	D2-PAK	4.75	3.80	2.85
IRSF3012L-ND	Fully Protected Power MOSFET Switch	SOT-223	3.50	2.80	2.10
IRSF3012-ND	Fully Protected Power MOSFET Switch	TO-220	4.38	3.50	2.63
IRSF3021L-ND	Low Side Power MOSFET Switch	SOT-223	2.93	2.34	1.76
IRU1502-33CHCT-ND	Micropower LD PMOS Voltage Regulator, 1A	6-MLPM	1.05	.79	.62
IRU1502-33CHTR-ND	Micropower LD PMOS Voltage Regulator, 1A	6-MLPM	1470.00/3,000		

Reference Design Kits

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IRAC1150-300W-ND	Demo Board designed to demonstrate the performance of the IR1150S control IC in a 300W continuous conduction mode boost converter for power factor correction.	—	450.00	—	—
IRAC1150-D2-ND	Control Board features the μPFC IR1150S Power Factor Correction Control IC	—	195.00	—	—
IRAC5001-HS100A-ND	OR-ing Demo Board Demonstrates the IR5001 Functions	—	250.00	—	—
IRADK31-ND	1/4 HP DC Brushless Motor using IR31xx Design Kit	—	292.49	—	—
IRAUDAMP1-ND	High Power Class D Audio Power Amp using IR2011S	—	500.00	—	—
IRDC3037-ND	Design Kit with IRU3037 Synchronous PWM Controller, 200KHz	—	320.51	—	—
IRDC3037A-ND	Design Kit with IRU3037A Synchronous PWM Controller, 400KHz	—	320.51	—	—
IRDC3038-ND	Design Kit with IRU3038 Synchronous PWM Controller, DDR, 200KHz	—	320.51	—	—
IRDC3046-ND	Design Kit with IRU3046 Dual PWM LDO Controller, 200KHz	—	320.51	—	—
IRDC3048-ND	Design Kit with IRU3048 Dual PWM LDO Controller, 200KHz	—	320.51	—	—
IRDC3055-ND	Design Kit with IRU3055 5-Bit Programmable 3-Phase Synchronous Buck Controller	—	320.51	—	—
IRDC3065-ND	Design Kit for Low Power On Board Switching Regulators	—	250.00	—	—
IRDC3073-ND	Design Kit with IRU3073 Sync. PWM LDO Controller, 200KHz	—	280.00	—	—
IRDC3137-ND	IRU3137 Evaluation Board	—	456.15	—	—
IRDC3138-ND	IRU3138 Evaluation Board	—	250.00	—	—
IRDC3146-ND	Reference Design Kit with IRU3146	—	250.00	—	—
IRDC3621-ND	Reference Board Designed for Dual Output Configuration	—	250.00	—	—
IRDC3637-ND	Reference Board for 1.8V Output using 5V, 12V Supplies	—	225.00	—	—
IRDC5001-LS48V-ND	OR-ing Demo Board Demonstrates the IR5001 Functions	—	250.00	—	—
IRDCIP1201-A-ND	2-Phase, 30A, 3.14-5.5VIN, 0.8-3.3VOUT 2-Phase Synchronous Buck Converter Reference Design with IP1201	—	295.00	—	—
IRDCIP1202-A-ND	2-Phase, 30A, 5.5-13.2VIN, 0.8-5VOUT 2-Phase Synchronous Buck Converter Reference Design with IP1202	—	295.00	—	—
IRDCIP1203-A-ND	400KHz, 15A, Synchronous Buck Converter using IP1203	—	225.00	—	—
IRDCIP2001-B-ND	3-Phase, 60A, 5-12VIN, 1.1-1.85VOUT Multiphase Buck Converter Reference Design with IP2001	—	427.13	—	—
IRDCIP2001-C-ND	4-Phase, 80A, 5-12VIN, 1.1-1.85VOUT Multiphase Buck Converter Reference Design with IP2001	—	450.00	—	—
IRDCIP2002-C-ND	4-Phase, 120A, 6.5-12VIN, 0.8-3.3VOUT Synchronous Buck Converter using IP2002	—	395.00	—	—
IRISMPS1-ND	48V, 30W Reference Design Kit with IRIS4007	—	308.00	—	—
IRISMPS2-ND	1-12V, 30W Reference Design Kit with IRIS4011	—	275.00	—	—
IRISMPS3-ND	15V, 4A Reference Design Kit with IRIS4013	—	308.00	—	—
IRISMPS4-ND	12V Power Supply Reference Design Kit	—	308.00	—	—
IRISMPS5-ND	15V Power Supply Reference Design Kit	—	280.00	—	—
IRMCS2013-ND	Complete AC servo motor control IC one-chip solution for complete closed loop current control and velocity control for a high performance servo drive system.	—	1250.00	—	—
IRMCS2033-ND	Complete sensorless high performance digital motion control IC for Permanent Magnet AC motors.	—	1407.00	—	—
IRMD2214SS-ND	Evaluation Board for IR2214SS	—	300.00	—	—
IRMD22141SS-ND	Evaluation Board for IR22141SS	—	300.00	—	—
IRPLCFL2-ND	42 Watt Compact Fluorescent Ballast Reference Design Kit	—	178.57	—	—
IRPLCFL3-ND	CFL Triac Dimming Ballast Design Kit	—	190.00	—	—
IRPLCFL4-ND	3-Way Dimming CFL Ballast	—	190.00	—	—
IRPLCFL5E-ND	220VAC, CFL Ballast Design Kit	—	125.00	—	—
IRPLCFL5U-ND	120VAC, CFL Ballast Design Kit	—	125.00	—	—
IRPLDIM1E-ND	Dimming Ballast Control IC Design Kit	—	333.33	—	—
IRPLDIM1U-ND	Dimming Ballast Control IC Design Kit	—	300.00	—	—
IRPLDIM2E-ND	Digitally Addressable DALI Dimming Ballast Reference Design Kit	—	357.14	—	—
IRPLDIM2U-ND	Digitally Addressable DALI Dimming Ballast Reference Design Kit	—	392.86	—	—
IRPLHALO1E-ND	100VA Dimmable Electronic Convertor Kit	—	175.00	—	—
IRPLLNR2E-ND	Ballast Control IC Design Kit	—	500.00	—	—
IRPLLNR2U-ND	Ballast Control IC Design Kit	—	500.00	—	—
IRPLMB1E-ND	220VAC Ballast Control IC Design Kit	—	125.00	—	—

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LDO REGULATORS/ SWITCHING CONTROLLERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IR2167S-ND	PFC Ballast Control IC	20-SOIC	6.83	4.61	4.16
IR21592S-ND	Dimming Ballast Control IC	16-SOIC	5.69	3.84	3.46
IR21592STR-ND	Dimming Ballast Control IC	16-SOIC	7352.50/2,500		
IR3088AMCT-ND	XPHASE™ IC with Fault and Overtemp Detect	20L-MLPQ	4.39	2.70	2.30
IR3088AMTR-ND	XPHASE™ IC with Fault and Overtemp Detect	20L-MLPQ	5427.00/3,000		
IR3621FCT-ND	2-Phase, Dual Synchronous PWM Controller	28-TSSOP	4.21	2.61	2.32
IR3621FTR-ND	2-Phase, Dual Synchronous PWM Controller	28-TSSOP	4712.50/2,500		
IR3621MCT-ND	2-Phase, Dual Synchronous PWM Controller	32-MLPQ	4.21	2.61	2.32
IR3621MTR-ND	2-Phase, Dual Synchronous PWM Controller	32-MLPQ	5874.00/3,000		
IR3624MPBFCT-ND	High Frequency Sync. PWM Buck Controller* ***NEW!***	10-MLPD	2.31	1.49	1.16
IR3624MPBFTR-ND	High Frequency Sync. PWM Buck Controller* ***NEW!***	10-MLPD	2772.00/3,000		
IR3637SPBF-ND	1% Accurate Synchronous PWM Controller*	8-SOIC	1.97	1.16	.99
IR5001S-ND	Universal Active OR-ing Controller	8-SOIC	2.41	1.48	1.26
IR5001SCT-ND	Universal Active OR-ing Controller	8-SOIC	2.41	1.48	1.26
IR5001STR-ND	Universal Active OR-ing Controller	8-SOIC	2545.00/2,500		
IRDC2085S-DF-ND	DC Bus Evaluation Board	—	220.00	—	—
IRDC2085S-S-ND	DC Bus Evaluation Board	—	220.00	—	—
IRDC3039-ND	Evaluation Board PWM Controller	—	278.57	—	—
IRU431LCL3CT-ND	Low Voltage Adjustable Precision Shunt Regulator	SOT-23	.65	.33	.26
IRU431LCL3TR-ND	Low Voltage Adjustable Precision Shunt Regulator	SOT-23	585.00/3,000		
IRU431LCL5CT-ND	Low Voltage Adjustable Precision Shunt Regulator	SOT-23-5	1.14	.55	.46
IRU431LCL5TR-ND	Low Voltage Adjustable Precision Shunt Regulator	SOT-23-5	1032.00/3,000		
IRU1010CD-ND	1.0A, Adjustable Low Dropout Regulator	D-PAK	1.26	1.12	1.00
IRU1010CP-ND	1.0A, Adjustable Low Dropout Regulator	2-Pin Power Flex	1.72	.95	.78
IRU1010CS-ND	1.0A, Adjustable Low Dropout Regulator	8-SOIC	1.24	.69	.57
IRU1010CY-ND	1.0A, Adjustable Low Dropout Regulator	SOT-223	.90	.50	.41
IRU1010-18CD-ND	1.8V, 1.0A Low Dropout Regulator	D-PAK	1.26	1.12	.97
IRU1010-18CP-ND	1.8V, 1.0A Low Dropout Regulator	2-Pin Power Flex	1.72	.95	.78
IRU1010-18CS-ND	1.8V, 1.0A Low Dropout Regulator	8-SOIC	1.24	.69	.57
IRU1010-18CY-ND	1.8V, 1.0A Low Dropout Regulator	SOT-223	.90	.50	.41

* ***RoHS Compliant***

(Continued)

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LDO REGULATORS/ SWITCHING CONTROLLERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
IRU1010-25CD-ND	2.5V, 1.0A Low Dropout Regulator	D-PAK	1.26	1.12	.97
IRU1010-25CP-ND	2.5V, 1.0A Low Dropout Regulator	2-Pin Power Flex	1.72	.95	.78
IRU1010-25CS-ND	2.5V, 1.0A Low Dropout Regulator	8-SOIC	1.24	.69	.57
IRU1010-25CY-ND	2.5V, 1.0A Low Dropout Regulator	SOT-223	.90	.50	.41
IRU1010-33CD-ND	3.3V, 1.0A Low Dropout Regulator	D-PAK	.70	.63	.54
IRU1010-33CP-ND	3.3V, 1.0A Low Dropout Regulator	2-Pin Power Flex	1.72	.95	.78
IRU1010-33CY-ND	3.3V, 1.0A Low Dropout Regulator	SOT-223	.90	.50	.41
IRU1010-33CYTR-ND	3.3V, 1.0A Low Dropout Regulator	SOT-223	797.50/2,500		
IRU1015CD-ND	1.5A Adjustable Low Dropout Regulator	D-PAK	1.43	1.27	1.09
IRU1015CM-ND	1.5A Adjustable Low Dropout Regulator	TO-263	1.05	.94	.84
IRU1015CMCT-ND	1.5A Low Dropout Positive Adjustable Regulator	TO-263	2.38	1.30	1.16
IRU1015CMTR-ND	1.5A Low Dropout Positive Adjustable Regulator	TO-263	765.00/750		
IRU1015CT-ND	1.5A Adjustable Low Dropout Regulator	TO-220	1.76	1.57	1.34
IRU1015-33CD-ND	3.3V, 1.5A Low Dropout Regulator	D-PAK	.83	.74	.63
IRU1015-33CM-ND	3.3V, 1.5A Low Dropout Regulator	TO-263	1.70	1.52	1.30
IRU1015-33CP-ND	3.3V, 1.5A Low Dropout Regulator	Ultra Thin-PAK	1.28	1.15	.98
IRU1015-33CT-ND	3.3V, 1.5A Low Dropout Regulator	TO-220	1.55	1.38	1.18
IRU1030CM-ND	3.0A, Adjustable Regulator	TO-263	1.71	1.70	1.37
IRU1030CT-ND	3.0A, Adjustable Regulator	TO-220	1.77	1.76	1.42
IRU1030-33CD-ND	3.3V, 3.0A Low Dropout Regulator	D-PAK	1.50	1.34	1.20
IRU1030-33CM-ND	3.3V, 3.0A Low Dropout Regulator	TO-263	1.06	1.05	.85
IRU1030-33CP-ND	3.3V, 3.0A Low Dropout Regulator	2-Pin Power Flex	1.28	1.15	.99
IRU1030-33CT-ND	3.3V, 3.0A Low Dropout Regulator	TO-220	1.35	1.21	1.04
IRU1050CD-ND	5.0A, Adjustable Regulator	D-PAK	.90	.81	.72
IRU1050CM-ND	5.0A, Adjustable Regulator	TO-263	1.72	1.70	1.38
IRU1050CP-ND	5.0A, Adjustable Regulator	2-Pin Power Flex	1.28	1.15	1.02
IRU1050CT-ND	5.0A, Adjustable Regulator	TO-220	1.78	1.59	1.43
IRU1050-33CD-ND	3.3V, 5.0A Low Dropout Regulator	D-PAK	1.50	1.34	1.14
IRU1050-33CM-ND	3.3V, 5.0A Low Dropout Regulator	TO-263	1.70	1.52	1.30
IRU1050-33CP-ND	3.3V, 5.0A Low Dropout Regulator	2-Pin Power Flex	1.28	1.15	.97
IRU1050-33CT-ND	3.3V, 5.0A Low Dropout Regulator	TO-220	1.76	1.57	1.34
IRU1075CM-ND	7.5A, Adjustable Low Dropout Regulator	TO-263	2.48	2.23	1.99
IRU1075CMTR-ND	7.5A, Adjustable Low Dropout Regulator	TO-263	672.00/750		
IRU1075CP-ND	7.5A, Adjustable Low Dropout Regulator	3-Pin Power Flex	2.54	2.29	2.04
IRU1075CT-ND	7.5A, Adjustable Low Dropout Regulator	TO-220	2.53	2.28	2.03
IRU1117CD-ND	800mA Low Dropout Positive Adjustable Regulator	TO-252	2.01	1.06	.93
IRU1117CY-ND	800mA Low Dropout Positive Adjustable Regulator	SOT-223	.74	.40	.32
IRU1117-18CD-ND	800mA Low Dropout Positive Fixed 1.8V Regulator	TO-252	2.01	1.06	.93
IRU1117-18CP-ND	800mA Low Dropout Positive Fixed 1.8V Regulator	Ultra Thin-Pak	1.72	.93	.78
IRU1117-18CS-ND	800mA Low Dropout Positive Fixed 1.8V Regulator	8-SOIC	1.30	.70	.57
IRU1117-18CY-ND	800mA Low Dropout Positive Fixed 1.8V Regulator	SOT-223	.74	.40	.32
IRU1117-25CD-ND	800mA Low Dropout Positive Fixed 2.5V Regulator	TO-252	2.01	1.06	.93
IRU1117-25CP-ND	800mA Low Dropout Positive Fixed 2.5V Regulator	Ultra Thin-Pak	1.52	.82	.69
IRU1117-33CD-ND	800mA Low Dropout Positive Fixed 3.3V Regulator	TO-252	1.12	.59	.52
IRU1117-33CP-ND	800mA Low Dropout Positive Fixed 3.3V Regulator	Ultra Thin-Pak	1.52	.82	.69
IRU1117-33CS-ND	800mA Low Dropout Positive Fixed 3.3V Regulator	8-SOIC	1.23	.66	.54
IRU1117-33CY-ND	800mA Low Dropout Positive Fixed 3.3V Regulator	SOT-223	.74	.40	.32
IRU1150CMCT-ND	4.0A, Adjustable Positive Voltage Regulator	TO-263-5	1.26	.95	.74
IRU1150CMTR-ND	4.0A, Adjustable Positive Voltage Regulator	TO-263-5	425.25/750		
IRU1150CPTR-ND	4.0A, Adjustable Very Low Dropout Regulator	5-Pin Power Flex	1134.00/2,000		
IRU1150CSTR-ND	4.0A, Adjustable Very Low Dropout Regulator	8-SOIC	877.50/2,500		
IRU1160CM-ND	6.0A, Adjustable Regulator	TO-263-5	2.03	1.81	1.62
IRU1160CPTR-ND	6.0A, Adjustable Regulator	5-Pin Power Flex	2674.00/2,000		
IRU1175CMCT-ND	7.5A, Adjustable Positive Voltage Regulator	TO-263-5	3.50	2.63	2.05
IRU1175CMTR-ND	7.5A, Adjustable Positive Voltage Regulator	TO-263-5	1269.11/750		
IRU1176CM-ND	7.5A, Adjustable Ultra Low Dropout Regulator	TO-263-7	3.28	2.93	2.63
IRU1176CPTR-ND	7.5A, Adjustable Ultra Low Dropout Regulator	5-Pin Power Flex	1944.00/2,000		
IRU1205CLCT-ND	0.3A, Adjustable Very Low Dropout Regulator	SOT-23-5	.66	.50	.39
IRU1205CLTR-ND	0.3A, Adjustable Very Low Dropout Regulator	SOT-23-5	891.00/3,000		
IRU1205-25CLTR-ND	2.5V, 0.3A Very Low Dropout Regulator	SOT-23-5	1176.00/3,000		
IRU1205-28CLCT-ND	300mA Ultra Low Dropout Positive Fixed 2.8V Regulator	SOT-23-5	.92	.50	.41
IRU1205-28CLTR-ND	300mA Ultra Low Dropout Positive Fixed 2.8V Regulator	SOT-23-5	990.00/3,000		
IRU1205-30CLTR-ND	3.0V, 0.3A Very Low Dropout Regulator	SOT-23-5	1176.00/3,000		
IRU1205-30CLPCT-ND	3.0V, 0.3A Very Low Dropout Regulator* ***NEW!***	SOT-23-5	1.16	.66	.54
IRU1205-30CLPTR-ND	3.0V, 0.3A Very Low Dropout Regulator* ***NEW!***	SOT-23-5	1176.00/3,000		
IRU1205-33CLTR-ND	3.3V, 0.3A Very Low Dropout Regulator	SOT-23-5	891.00/3,000		
IRU1205-36CLTR-ND	3.6V, 0.3A Very Low Dropout Regulator	SOT-23-5	891.00/3,000		
IRU1206-18CD-ND	1.8V, 1.0A Very Low Dropout Regulator	D-PAK	1.88	1.68	1.38
IRU1206-18CY-ND	1.8V, 1.0A Very Low Dropout Regulator	SOT-223	1.00	.89	.74
IRU1206-25CD-ND	2.5V, 1.0A Very Low Dropout Regulator	D-PAK	1.28	1.14	.94
IRU1206-25CY-ND	2.5V, 1.0A Very Low Dropout Regulator	SOT-223	1.00	.89	.74
IRU1207-18CS-ND	1.8V, 1.0A Very Low Dropout Regulator	8-SOIC	1.38	1.24	1.02
IRU1207-25CS-ND	2.5V, 1.0A Very Low Dropout Regulator	8-SOIC	1.38	1.24	1.02
IRU1207-33CS-ND	3.3V, 1.0A Very Low Dropout Regulator	8-SOIC	1.38	1.24	1.02
IRU1208CS-ND	1.0A Adjustable Very Low Dropout Regulator	8-SOIC	1.38	1.24	1.02
IRU1209CSTR-ND	1.0A Adjustable Very Low Dropout Regulator	8-SOIC	1865.00/2,500		
IRU1260CMTR-ND	Dual Adjustable 6A/1A Low Dropout Regulator	TO-263-7	1312.82/750		
IRU1260CPTR-ND	Dual Adjustable 6A/1A Low Dropout Regulator	7-Pin Power Flex	2684.00/2,000		
IRU1261CMTR-ND	Dual Low Dropout Reg. 1.5 V/6A and 2.5 V/1A	TO-263-5	1312.82/750		
IRU1261CPTR-ND	Dual Low Dropout Reg. 1.5 V/6A and 2.5 V/1A	Ultra Thin-PAK-5	2684.00/2,000		
IRU3004CW-ND	5-Bit Prog. Sync. Buck Controller w/Dual LDO Controller	20-SOIC(W)	4.60	4.10	3.41
IRU3007CW-ND	5-Bit Prog. Sync. Buck Controller w/Dual LDO Controller	28-SOIC(W)	6.48	5.77	4.80
IRU3011CW-ND	5-Bit Programmable Sync. Buck Controller	20-SOIC(W)	4.60	4.10	3.41
IRU3018CW-ND	5-Bit Programmable Sync. Buck Controller with Dual LDO Controller	24-SOIC(W)	6.08	5.41	4.50
IRU3021MCW-ND	5-Bit Programmable Sync. Buck Controller with Triple Low Dropout Controller	28-SOIC(W)	4.33	3.85	3.21
IRU3021MCWTR-ND	5-Bit Programmable Sync. Buck Controller with Triple Low Dropout Controller	28-SOIC(W)	2350.64/1,000		
IRU3027CW-ND	5-Bit Programmable Sync. Buck Controller with Triple Low Dropout Controller	28-SOIC(W)	4.33	3.85	3.21
IRU3027CWTR-ND	5-Bit Programmable Sync. Buck Controller with Triple Low Dropout Controller	28-SOIC(W)	2350.64/1,000		
IRU3033CS-ND	Pulse Width Modulation Switcher/Linear Controller	8-SOIC(N)	2.20	1.96	1.63
IRU3033CSPBF-ND	Pulse Width Modulation Swithcer/Linear Controller*	8-SOIC(N)	3.08	1.98	1.54
IRU3033CSTR-ND	Pulse Width Modulation Switcher/Linear Controller	8-SOIC(N)	3037.50/2,500		
IRU3034CS-ND	PWM Switcher/Controller with Short Circuit Protection	8-SOIC	4.60	4.10	3.41
IRU3034CSTR-ND	PWM Switcher/Controller with Short Circuit Protection	8-SOIC	3150.00/2,500		
IRU3037ACF-ND	Synchronous PWM Controller	8-TSSOP	2.11	1.23	1.05
IRU3037CF-ND	Synchronous PWM Controller	8-TSSOP	2.11	1.20	1.05
IRU3037CFTR-ND	Synchronous PWM Controller	8-TSSOP	3185.00/2,500		
IRU3037CS-ND	Synchronous PWM Controller	8-SOIC	2.30	1.56	1.22
IRU3037CSPBFCT-ND	Synchronous PWM Controller*	8-SOIC	2.77	1.58	1.39
IRU3037CSPBFTR-ND	Synchronous PWM Controller*	8-SOIC	2865.00/2,500		
IRU3038CF-ND	Synchronous PWM Controller	14-TSSOP	2.28	1.32	1.13
IRU3038CS-ND	Synchronous PWM Controller	14-SOIC	1.96	1.13	.96
IRU3038CSTR-ND	Synchronous PWM Controller	14-SOIC	2415.00/2,500		
IRU3039CHTRCT-ND	Synchronous PWM Controller	20-MLPQ	2.84	2.14	1.66
IRU3039CHTRTR-ND	Synchronous PWM Controller	20-MLPQ	3750.00/3,000		
IRU3046CFCT-ND	Dual Synchronous PWM Controller	24-TSSOP	3.57	2.38	2.03
IRU3046CFTR-ND	Dual Synchronous PWM Controller	24-TSSOP	3927.50/2,500		
IRU3047CWCT-ND	Dual Synchronous PWM Controller	20-SOIC	3.27	2.18	1.86
IRU3047CWTR-ND	Dual Synchronous PWM Controller	20-SOIC	1537.00/1,000		
IRU3048CFCT-ND	Dual Synchronous PWM Controller	16-TSSOP	3.61	2.11	1.84
IRU3048CFTR-ND	Dual Synchronous PWM Controller	16-TSSOP	3717.50/2,500		
IRU3048CSCT-ND	Dual Synchronous PWM Controller	16-SOIC	3.12	2.08	1.77
IRU3048CSTR-ND	Dual Synchronous PWM Controller	16-SOIC	3432.50/2,500		
IRU3055CQCT-ND	5-Bit Programmable 3-Phase Synchronous Buck Controller	36-QSOP	4.71	3.14	2.67
IRU3055CQTR-ND	5-Bit Programmable 3-Phase Synchronous Buck Controller	36-QSOP	3156.00/1,500		
IRU3065CLCT-ND	Positive to Negative DC/DC Controller	SOT-23-6	1.17	.65	.53
IRU3065CLTR-ND	Positive to Negative DC/DC Controller	SOT-23-6	1254.00/3,000		
IRU3073CQCT-ND	Synchronous PWM Controller with Low Dropout	16-QSOP	1.91	1.44	1.12
IRU3073CQTR-ND	Synchronous PWM Controller with Low Dropout	16-QSOP	2150.00/2,500		
IRU3137CSCT-ND	Synchronous PWM Controller	8-SOIC	1.76	1.04	.91
IRU3137CSTR-ND	Synchronous PWM Controller	8-SOIC	1810.00/2,500		
IRU3138CSCT-ND	Synchronous PWM Controller	14-SOIC	2.63	1.55	1.30
IRU3138CSTR-ND	Synchronous PWM Controller	14-SOIC	2667.50/2,500		
IRU3146CFCT-ND	Dual Synchronous PWM Controller	28-TSSOP	5.09	3.33	2.96
IRU3146CFTR-ND	Dual Synchronous PWM Controller	28-TSSOP	6012.50/2,500		

* ***RoHS Compliant***

TOSHIBA 4-CHANNEL DARLINGTON SINK DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TD62064AF-ND	TTL, 5V, CMOS Input - 1.5A @ 50V, Vce Output	16-SOP	1.40	1.12	.84
TD62064AFG-ND	TTL, 5V, CMOS Input - 1.5A @ 50V, Vce Output* ***NEW!***	16-SOP	1.40	1.12	.84
TD62064AP-ND	TTL, 5V, CMOS Input - 1.5A @ 50V, Vce Output	16-Dip	1.20	1.00	.80
TD62064APG-ND	TTL, 5V, CMOS Input - 1.5A @ 50V, Vce Output* ***NEW!***	16-Dip	1.20	1.00	.80
TD62064BP-1-ND	TTL, 5V, CMOS Input - 1.5A @ 80V, Vce Output	16-Dip	1.20	1.00	.80
TD62064BPG-1-ND	TTL, 5V, CMOS Input - 1.5A @ 80V, Vce Output* ***NEW!***	16-Dip	1.20	1.00	.80

TOSHIBA 7-CHANNEL DARLINGTON SINK DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TD62001AFELCT-ND	General Purpose Input - 0.5A @ 50V, Vce Output	16-SOP	.84	.63	.48
TD62001AFELTR-ND	General Purpose Input - 0.5A @ 50V, Vce Output	16-SOP	546.00/2,000		
TD62001AFGELCT-ND	General Purpose Input - 0.5A @ 50V, Vce Output* ***NEW!***	16-SOP	.84	.63	.48
TD62001AFGELTR-ND	General Purpose Input - 0.5A @ 50V, Vce Output* ***NEW!***	16-SOP	558.60/2,000		
TD62001AP-ND	General Purpose Input - 0.5A @ 50V, Vce Output	16-Dip	.64	.48	.36
TD62001APG-ND	General Purpose Input - 0.5A @ 50V, Vce Output* ***NEW!***	16-Dip	.64	.48	.36
TD62002AF-ND	14-25V, PMOS Input - 0.5A @ 50V, Vce Output	16-SOP	.72	.54	.41
TD62002AFELTR-ND	14-25V, PMOS Input - 0.5A @ 50V, Vce Output	16-SOP	546.00/2,000		
TD62002AFGELCT-ND	14-25V, PMOS Input - 0.5A @ 50V, Vce Output* ***NEW!***	16-SOP	.84	.63	.48
TD62002AFGELTR-ND	14-25V, PMOS Input - 0.5A @ 50V, Vce Output* ***NEW!***	16-SOP	558.60/2,000		
TD62002APG-ND	14-25V, PMOS INput - 0.5A @ 50V, Vce Output* ***NEW!***	16-Dip	.64	.48	.36
TD62003AFCT-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output	16-SOP	.64	.48	.36
TD62003AFTR-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output	16-SOP	416.00/2,000		
TD62003AFGCT-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output* ***NEW!***	16-SOP	.80	.60	.45
TD62003AFGTR-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output* ***NEW!***	16-SOP	532.00/2,000		
TD62003AP-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output	16-Dip	.56	.42	.32
TD62003APG-ND	TTL, 5V, CMOS Input - 0.5A @ 50V, Vce Output* ***NEW!***	16-Dip	.56	.42	.32
TD62004AF-ND	6-15V, PMOS Input - 0.5A @ 50V, Vce Output	16-SOP	.64	.48	.36
TD62004APG-ND	6-15V, PMOS Input - 0.5A @ 50V, Vce Output* ***NEW!***	16-Dip	.56	.42	.32
ULN2003AFW-ND	TTL, 5V CMOS 0.5A @ 50V, Vce Output	16-SOL	.56	.42	.32
ULN2003AFWG-ND	TTL, 5V CMOS 0.5A @ 50V, Vce Output* ***NEW!***	16-SOL	.56	.42	.32
ULN2003AP-ND	TTL, 5V CMOS 0.5A @ 50V, Vce Output	16-Dip	.48	.36	.27
ULN2003APG-ND	TTL, 5V CMOS 0.5A @ 50V, Vce Output* ***NEW!***	16-Dip	.48	.36	.27
ULN2004AFWG-ND	6-15V PMOS, CMOS 0.5A @ 50V, Vce Output* ***NEW!***	16-SOL	.56	.42	.32
ULN2004AP-ND	6-15V PMOS, CMOS 0.5A @ 50V, Vce Output	16-Dip	.48	.36	.27
ULN2004APG-ND	6-15V PMOS, CMOS 0.5A @ 50V, Vce Output* ***NEW!***	16-Dip	.48	.36	.27

TOSHIBA 8-CHANNEL DARLINGTON SINK DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TD62081AF-ND	General Purpose Input, 0.5A @ 50V, Vce Output	18-SOP	.88	.66	.50
TD62081AFGCT-ND	General Purpose Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOP	.96	.72	.54
TD62081AFGTR-ND	General Purpose Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOP	638.40/2,000		
TD62081APG-ND	General Purpose Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-Dip	.76	.57	.43
TD62082AF-ND	14-25V, PMOS Input, 0.5A @ 50V, Vce Output	18-SOP	.88	.66	.50
TD62082AFTR-ND	14-25V, PMOS Input, 0.5A @ 50V, Vce Output	18-SOP	292.60/1,000		
TD62082AFGCT-ND	14-25V, PMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOP	.88	.66	.50
TD62082AFGTR-ND	14-25V, PMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOP	292.60/1,000		
TD62082APG-ND	14-25V, PMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-Dip	.76	.57	.43
TD62083AF-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	.84	.63	.48
TD62083AFG5S-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	.84	.63	.48
TD62083AFNGCT-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SSOP	.87	.73	.58
TD62083AFNGTR-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SSOP	771.40/2,000		
TD62083AP-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	.72	.54	.41
TD62083APG-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-Dip	.72	.54	.41
TD62084AF-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	.84	.63	.48
TD62084AFG-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	.84	.63	.48
TD62084AFGCT-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOP	.84	.63	.48
TD62084AFGTR-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOP	279.30/1,000		
TD62084AFNCT-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-SSOP	.96	.80	.64
TD62084AFNTR-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-SSOP	832.00/2,000		
TD62084AFNGCT-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SSOP	.90	.75	.60
TD62084AFNGTR-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SSOP	798.00/2,000		
TD62084AP-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	.76	.57	.43
TD62084APG-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-Dip	.76	.57	.43
ULN2803AFW-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output	18-SOL	.84	.63	.48
ULN2803AFWG-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOL	.84	.63	.48

* ***RoHS Compliant***

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TOSHIBA 8-CHANNEL DARLINGTON SINK DRIVERS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ULN2803AP-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	.72	.54	.41
ULN2803APG-ND	TTL, 5V CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-Dip	.72	.54	.41
ULN2804AFW-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-SOL	.84	.63	.48
ULN2804AFWG-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOL	.84	.63	.48
ULN2804AP-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-Dip	.76	.57	.43
ULN2804APG-ND	6-15V PMOS, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-Dip	.76	.57	.43

* ***RoHS Compliant***

TOSHIBA 8-CHANNEL DARLINGTON SOURCE DRIVERS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
TD62783AF-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	1.43	1.14	.86
TD62783AFG-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOP	1.43	1.14	.86
TD62783AFN-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output	18-SSOP	1.75	1.40	1.05
TD62783AFNG-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SSOP	1.43	1.14	.86
TD62783APG-ND	TTL, 5V, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-Dip	1.47	1.23	.98
TD62784AF-ND	6-15V, PMOS, CMOS Input, 0.5A @ 50V, Vce Output	18-SOP	1.43	1.14	.86
TD62784AFG-ND	6-15V, PMOS, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-SOP	1.43	1.14	.86
TD62784APG-ND	6-15V, PMOS, CMOS Input, 0.5A @ 50V, Vce Output* ***NEW!***	18-Dip	1.47	1.23	.98

* ***RoHS Compliant***

EPSON APPLICATION SPECIFIC INTEGRATED CIRCUITS

Our LCD controllers feature high-performance, low power consumption. These LCD controllers can be used on a variety of CPUs. The product line up supports a wide range of LCD panels, including those from small to large scale and those from monochrome to color.

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Graphics					
S1D13506F00A200-ND	Color CRT/LCD/TV Controller, 64K Colors	128-QFP	13.94	12.56	11.14
S1D13706F00A200-ND	80K Byte Embedded Memory LCD Controller	100-TQFP	14.49	13.05	11.58
S1D13A04B00B200-ND	112K Byte Embedded Memory LCD/USB Companion	121-PFBGA	16.80	15.68	14.56
S1D13A04F00A100-ND	112K Byte Embedded Memory LCD/USB Companion	128-TQFP	15.83	14.77	13.72
S1D13A05B00B200-ND	256K Byte Embedded Memory LCD/USB Companion	121-PFBGA	13.71	12.80	11.89
S1D13700F01A100-ND	32K Byte Embedded Memory B/W STN LCDC	64-QFP	9.00	7.20	6.08
Graphic Evaluations					
S5U13706P00C000-ND	SED1376F0A Evaluation Board	—	577.50	—	—
S5U13A03P00C000-ND	SED13A3F0A Evaluation Board	—	577.50	—	—

The Application Specific Standard Product line-up includes ICs for high-speed serial interfaces, such as USB 2.0 and USB OTG, as well as the network controller family of products, which uses TCP/IP protocol to monitor and communicate between different hubs.

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
ASSP					
USB OTG Controller					
S1R72005F00A100-ND	USB OTG Controller and PHY	64-QFP	9.92	7.94	6.70
USB 2.0 Controller					
S1R720G0F00A000-ND	USB 2.0 PHY	64-QFP	11.33	10.20	9.05
Network Controllers					
S1S65000F00A100-ND	Web Camera IC	128-QFP	18.00	16.80	15.60

The power supply ICs include DC to DC Converters, DC to DC Converters and Voltage Regulators, High Precision Voltage Detectors and Regulators, Power Supply ICs for passive and active LCDs, Power Supply ICs for Logic Switching Regulators.

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
Power ICs					
S1F75510M0A010BCT-ND	Charge Pump DC/DC Converter and Voltage Regulator	24-SSOP	4.46	3.57	2.78
S1F75510M0A010BTR-ND	Charge Pump DC/DC Converter and Voltage Regulator	24-SSOP	7484.40/3,000		
S1F81150F0A2000-ND	System Power Supply - 6 Channel Regulator, Suitable for Intel Xscale	48-QFP	7.10	5.68	4.80

MAXIM SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
DG201ACJ-ND	Quad SPST CMOS Normally Closed Analog Switch	16-Dip	4.85	3.66	2.62
DG211CJ-ND	Quad SPST CMOS Normally Closed Analog Switch	16-Dip	3.45	2.60	1.85
DG211CJ+-ND	Quad SPST CMOS Normally Closed Analog Switch*	16-Dip	3.45	2.60	1.85
DG211CSE-ND	Quad SPST CMOS Normally Closed Analog Switch	16-SOIC	2.76	2.08	1.61
DG211CSE+-ND	Quad SPST CMOS Normally Closed Analog Switch*	16-SOIC	2.76	2.08	1.61
DG212CJ-ND	Quad SPST CMOS Normally Open Analog Switch	16-Dip	3.45	2.60	1.85
DG212CJ+-ND	Quad SPST CMOS Normally Open Analog Switch*	16-Dip	3.45	2.60	1.85
DG303ACWE-ND	Dual Analog CMOS Switch	16-SOIC	11.85	8.94	5.26
DG303ACWE+-ND	Dual Analog CMOS Switch*	16-SOIC	11.85	8.94	5.26
DG305ACJ-ND	SPDT Low Power Analog CMOS Switch	14-Dip	6.47	4.88	2.87
DG403DJ-ND	SPDT Dual Analog CMOS Switch	16-Dip	8.35	6.30	4.50
DG403DY-ND	SPDT Dual Analog CMOS Switch	16-SOIC	10.02	7.56	5.40
DG403DY+-ND	SPDT Dual Analog CMOS Switch*	16-SOIC	10.02	7.56	5.40
DG406DJ-ND	16-Channel CMOS Analog Multiplexer	28-Dip	12.35	9.32	6.66
DG406DJ+-ND	16-Channel CMOS Analog Multiplexer* ***NEW!***	28-Dip	12.35	9.32	6.66
DG413DY-ND	SPST, Quad Two Normally Closed and Two Normally Open Analog CMOS Switch	16-SOIC	7.23	5.46	3.90
DG413DY+-ND	SPST, Quad Two Normally Closed and Two Normally Open Analog CMOS Switch*	16-SOIC	7.23	5.46	3.90
DG417CY-ND	SPST, Normally Closed Analog CMOS Switch	8-SOIC	3.07	2.32	1.66
DG418DY-ND	Precision CMOS Analog Switch	8-SOIC	3.26	2.46	1.75
DG418DY+-ND	Precision CMOS Analog Switch*	8-SOIC	3.26	2.46	1.75
DG419CJ-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch	8-Dip	3.60	2.72	1.94
DG419CY+-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch*	8-SOIC	4.32	3.26	2.33
DG419DJ-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch	8-Dip	3.79	2.86	2.04
DG419DJ+-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch* ***NEW!***	8-Dip	3.79	2.86	2.04
DG419DY+-ND	SPDT, One Normally Closed and One Normally Open Analog CMOS Switch*	8-SOIC	4.56	3.44	2.45
DG508ACJ-ND	Monolithic CMOS Analog 1-to-8 Multiplexer	16-Dip	5.70	4.30	3.06
DG508ACJ+-ND	Monolithic CMOS Analog 1-to-8 Multiplexer*	16-Dip	5.70	4.30	3.06
DG509ACJ+-ND	Monolithic CMOS Analog 2-to-8 Multiplexer*	16-Dip	5.70	4.30	3.06
HI3-0201-5-ND	Quad SPST CMOS Analog Switch	16-Dip	5.64	4.26	2.84
HI3-0201HS-5-ND	High Speed Quad SPST CMOS Analog Switch	16-Dip	6.33	4.78	3.20
HI6-0201-5-ND	Quad SPST CMOS Analog Switch	16-SOIC	6.41	4.84	3.23
HI6-0201HS-5-ND	High Speed Quad SPST CMOS Analog Switch	16-SOIC	8.93	6.74	4.50
ICL7107CPL-ND	3-1/2 Digit ADC	40-Dip	12.16	9.18	5.40
ICL7109CPL-ND	12-Bit ADC with Tri-State Binary Outputs	40-Dip	13.04	9.84	8.95
ICL7129ACPL-ND	4-1/2 Digit ADC Multiplexer Driver	40-Dip	19.77	14.92	9.95
ICL7129ACPL-2-ND	4-1/2 Digit ADC Multiplexer Driver	40-Dip	15.53	11.72	7.81
ICL7137CPL-ND	Low Power, 3-1/2 Digit ADC	40-Dip	12.16	9.18	5.40
ICL7641ECPD-ND	Quad, Low Power, CMOS Op Amp	14-Dip	4.27	3.22	1.89
ICL7641ECPD+-ND	Quad, Low Power, CMOS Op Amp*	14-Dip	4.27	3.22	1.89
ICL7642ECPD-ND	Quad, Low Power, CMOS Op Amp	14-Dip	4.77	3.60	2.12
ICL7660CSA+-ND	CMOS Switch Capacitor Voltage Converter*	8-SOIC	2.86	2.16	1.54
ICL7665ACPA-ND	Under/Over Voltage Detector	8-Dip	4.93	3.72	2.66
ICL7665ACSA-ND	Under/Over Voltage Detector	8-SOIC	5.43	4.10	2.93
ICL7665ACSA+-ND	Under/Over Voltage Detector*	8-SOIC	5.43	4.10	2.93
ICM7212AMIPL-ND	Four Digit Display Decoder/Driver	40-Dip	5.75	4.34	2.54
ICM7217AIPI-ND	4-Digit Presettable Up/Down Counter	28-Dip	13.86	10.46	6.15
ICM7217AIPI+-ND	4-Digit Presettable Up/Down Counter* ***NEW!***	28-Dip	13.86	10.46	6.15
ICM7217CIPI-ND	4-Digit Presettable Up/Down Counter	28-Dip	13.86	10.46	6.15
ICM7218AIPI-ND	8-Digit Multiplexer LED Decoder/Driver	28-Dip	11.74	8.86	6.00
ICM7218AIPI+-ND	8-Digit Multiplexer LED Decoder/Driver* ***NEW!***	28-Dip	11.74	8.86	6.00
ICM7218BIPI-ND	8-Digit LED Display Driver	28-Dip	11.74	8.86	5.19
ICM7218BIPI+-ND	8-Digit LED Display Driver* ***NEW!***	28-Dip	11.74	8.86	5.19
ICM7224IPL-ND	4-1/2 Digit Counter/Decoder/Driver	40-Dip	18.23	13.76	8.05
ICM7242IPA-ND	Fixed Timer/Counter	8-Dip	3.79	2.86	1.98
ICM7242IPA+-ND	Fixed Timer/Counter* ***NEW!***	8-Dip	3.79	2.86	1.98
ICM7250IPE-ND	Programmable RC Timer	16-Dip	5.41	4.08	2.72
ICM7250IWE-ND	Programmable RC Timer	16-SOIC	5.94	4.48	2.99
ICM7555IPA+-ND	CMOS General Purpose Timer*	8-Dip	2.49	1.88	1.25
ICM7556IPD-ND	Dual General Purpose RC Timer	14-Dip	3.76	2.84	1.67
ICM7556IPD+-ND	Dual General Purpose RC Timer*	14-Dip	3.76	2.84	1.67
ICM7556ISD-ND	Dual General Purpose RC Timer	14-SOIC	3.39	2.56	1.51
ICM7556ISD+-ND	Dual General Purpose RC Timer*	14-SOIC	3.39	2.56	1.51
ICMAX7555IPA-ND	CMOS General Purpose Timer	8-Dip	2.49	1.88	1.25
IH5043CPE+-ND	Dual SPDT General Purpose CMOS Analog Switch*	16-Dip	7.10	5.36	3.15
IH5144CPE-ND	DPST, Low Power, Fast CMOS Analog Switch	16-Dip	9.70	7.32	4.30
IH5352CPE-ND	SPST, Quad RF/Video Switch	16-Dip	14.07	10.62	6.25
MAX110ACPE-ND	2-Channel, ±14-Bit Serial ADC	16-Dip	18.21	13.74	8.81
MAX110ACWE-ND	2-Channel, ±14-Bit Serial ADC	16-SOIC	18.21	13.74	8.81
MAX110BCPE-ND	2-Channel, ±14-Bit Serial ADC	16-Dip	13.97	10.54	6.77
MAX110BCWE-ND	2-Channel, ±14-Bit Serial ADC	16-SOIC	13.97	10.54	6.77
MAX110BCWE+-ND	2-Channel, ±14-Bit Serial ADC* ***NEW!***	16-SOIC	13.97	10.54	6.77
MAX117CPI-ND	3V, 8-Channel, 8-Bit Parallel Output ADC	28-Dip	10.97	8.28	5.32
MAX118CPI-ND	5V, 8-Channel, 8-Bit Parallel Output ADC	28-Dip	10.55	7.96	5.10
MAX120CNG-ND	500KSPS, 12-Bit ADC with Track/Hold and Reference	24-Dip	44.04	33.24	21.31
MAX120CNG+-ND	500KSPS, 12-Bit ADC with Track/Hold and Reference* ***NEW!***	24-Dip	44.04	33.24	21.31
MAX121CPE-ND	308KSPS ADC with DSP 78dB Interface/Serial ADC	16-Dip	34.95	26.38	16.92
MAX121CWE+-ND	308KSPS ADC with DSP 78dB Interface/Serial ADC*	16-SOIC	34.95	26.38	16.92
MAX132CNG+-ND	ADC with Serial Interface*	24-Dip	22.00	16.60	10.65
MAX132CWG-ND	ADC with Serial Interface	24-SOIC	22.00	16.60	10.65
MAX132CWG+-ND	ADC with Serial Interface*	24-SOIC	22.00	16.60	10.65
MAX133CPL-ND	3-3/4 Digit DMM Circuit	40-Dip	24.62	18.58	11.91
MAX135CWI-ND	15-Bit Low Power ADC with Parallel Interface	28-SOIC	22.00	16.60	10.65
MAX135CWI+-ND	15-Bit Low Power ADC with Parallel Interface* ***NEW!***	28-SOIC	22.00	16.60	10.65
MAX138CPL-ND	3-1/2 Digit ADC with Bandgap Ref. and Charge Pump Volt Converter and LCD Driver	40-Dip	21.28	16.06	10.30
MAX146ACAP-ND	2.7-3.6V, Low Power 12-Bit, 8-Channel Serial ADC	20-SSOP	25.12	18.96	11.16
MAX146ACAP+-ND	2.7-3.6V, Low Power 12-Bit, 8-Channel Serial ADC*	20-SSOP	25.12	18.96	11.15
MAX146ACPP-ND	2.7-3.6V, Low Power 12-Bit, 8-Channel Serial ADC	20-Dip	25.12	18.96	11.15
MAX146BEAP-ND	2.7-3.6V, Low Power 12-Bit, 8-Channel Serial ADC	20-SSOP	25.12	18.96	11.15
MAX146BEAP+-ND	2.7-3.6V, Low Power 12-Bit, 8-Channel Serial ADC*	20-SSOP	25.12	18.96	11.15
MAX147BCAP-ND	2.7V Low Power 12-Bit 8-Channel Serial ADC	20-SSOP	15.37	11.60	7.44
MAX147BCAP+-ND	2.7V Low Power 12-Bit 8-Channel Serial ADC*	20-SSOP	15.37	11.60	7.44
MAX147BCPP-ND	2.7V Low Power 12-Bit 8-Channel Serial ADC	20-Dip	15.37	11.60	7.44
MAX148BCAP-ND	2.7V Low Power 10-Bit 8-Channel Serial ADC	20-SSOP	8.82	6.66	4.27
MAX148BCAP+-ND	2.7V Low Power 10-Bit 8-Channel Serial ADC*	20-SSOP	8.82	6.66	4.27
MAX148BCPP-ND	2.7V Low Power 10-Bit 8-Channel Serial ADC	20-Dip	9.62	7.26	4.65
MAX150BCPP-ND	CMOS 8-Bit ADC with VREF Track and Hold	20-Dip	24.65	18.60	11.93
MAX153CPP-ND	1MSPS, µP-Compatible, 8-Bit ADC with Power Down	20-Dip	18.26	13.78	8.84
MAX153CPP+-ND	1MSPS, µP-Compatible, 8-Bit ADC with Power Down* ***NEW!***	20-Dip	18.26	13.78	8.84
MAX154ACNG-ND	4-Channel ADC with Track and Hold	24-Dip	35.75	26.98	17.30
MAX154ACWG-ND	4-Channel ADC with Track and Hold	24-SOIC	35.75	26.98	17.30
MAX154BCNG-ND	4-Channel ADC with Track and Hold	24-Dip	25.86	19.52	12.52
MAX154BCWG-ND	4-Channel ADC with Track and Hold	24-SOIC	25.86	19.52	12.52
MAX158ACPI-ND	8-Channel ADC with Track and Hold	28-Dip	37.02	27.94	17.92
MAX158ACWI-ND	8-Channel ADC with Track and Hold	28-SOIC	37.02	27.94	17.92
MAX158BCPI-ND	8-Channel ADC with Track and Hold	28-Dip	27.11	20.46	13.12
MAX158BCWI-ND	8-Channel ADC with Track and Hold	28-SOIC	27.11	20.46	13.12
MAX165ACPN-ND	CMOS µP Compatible 5µS 8-Bit ADC	18-Dip	14.60	11.02	7.07
MAX165BCPN-ND	CMOS µP Compatible 5µS 8-Bit ADC with Track Hold and Reference	18-Dip	11.24	8.48	5.44
MAX165BCWN-ND	CMOS µP Compatible 5µS 8-Bit ADC	18-SOIC	11.24	8.48	5.44

* ***RoHS Compliant***

(Continued)

SPECIALIZED INTEGRATED CIRCUITS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX166BCPP-ND	Diff. Input, 5µS, 8-Bit ADC with Track Hold and Reference	20-Dip	11.98	9.04	5.80
MAX172BCNG-ND	Complete 10µS CMOS 12-Bit ADC	24-Dip	29.71	22.42	14.38
MAX172BCNG+-ND	Complete 10µS CMOS 12-Bit ADC* ***NEW!***	24-Dip	29.71	22.42	14.38
MAX174CCPI-ND	12-Bit ADC with Reference	28-Dip	87.05	65.70	46.94
MAX176BCPA-ND	Serial Output, 12-Bit 250KSPS ADC	8-Dip	36.31	27.40	17.57
MAX176BCPA+-ND	Serial Output, 12-Bit 250KSPS ADC*	8-Dip	36.31	27.40	17.57
MAX180ACQH-D-ND	8-Channel 12-Bit Data Acquisition System	44-PLCC	60.76	45.86	26.99
MAX180BCPL-ND	8-Channel 12-Bit Data Acquisition System	40-Dip	53.77	40.58	26.02
MAX186BCPP-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference	20-Dip	35.75	26.98	17.30
MAX186BCPP+-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference*	20-Dip	35.75	26.98	17.30
MAX186BEAP+-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference*	20-SSOP	48.81	36.84	29.26
MAX186BCWP-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference	20-SOIC	35.75	26.98	17.30
MAX186BCWP+-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference*	20-SOIC	35.75	26.98	17.30
MAX186DCPP-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference	20-Dip	23.59	17.80	11.41
MAX186DCPP+-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference*	20-Dip	23.59	17.80	11.41
MAX186DCWP-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference	20-SOIC	23.59	17.80	11.41
MAX186DCWP+-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference*	20-SOIC	23.59	17.80	11.41
MAX187BCPA-ND	Low Power 12-Bit Serial ADC with Track and Hold	8-Dip	21.76	16.42	10.53
MAX187BCWE+-ND	Low Power 12-Bit Serial ADC with Track and Hold*	16-SOIC	21.76	16.42	10.53
MAX188BCPP-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference	20-Dip	32.70	24.68	15.82
MAX188BCPP+-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference*	20-Dip	32.70	24.68	15.82
MAX188BCWP-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference	20-SOIC	32.70	24.68	15.82
MAX188DCPP-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference	20-Dip	22.26	16.80	10.78
MAX188DCPP+-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference*	20-Dip	22.26	16.80	10.78
MAX188DCWP-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference	20-SOIC	22.26	16.80	10.78
MAX188DCWP+-ND	Low Power 8-Ch. Serial 12-Bit ADC with Reference*	20-SOIC	22.26	16.80	10.78
MAX189CCPA-ND	5V Low Power 12-Bit Serial A/D Converter	8-Dip	18.31	13.82	8.86
MAX189CCPA+-ND	5V Low Power 12-Bit Serial A/D Converter*	8-Dip	18.31	13.82	8.86
MAX191BCWG+-ND	LP, 12-Bit Sampling ADC with Internal Ref. and Power Down*	24-SOIC	26.42	19.94	12.79
MAX191BEWG-ND	LP, 12-Bit Sampling ADC with Internal Ref. and Power Down	24-SOIC	34.34	25.92	15.25
MAX192BCAP-ND	Low Power 8-Channel 10-Bit, 133KHz ADC	20-SSOP	18.63	14.06	9.02
MAX192BCPP-ND	Low Power 8-Channel 10-Bit, 133KHz ADC	20-Dip	16.96	12.80	8.20
MAX192BCWP-ND	Low Power 8-Channel 10-Bit, 133KHz ADC	20-SOIC	16.96	12.80	8.20
MAX192BCWP+-ND	Low Power 8-Channel 10-Bit, 133KHz ADC*	20-SOIC	16.96	12.80	8.20
MAX194BCWE-ND	14-Bit, 85KSPS ADC with 10µA Shutdown	16-SOIC	40.31	30.42	19.50
MAX195BCPE-ND	16-Bit, 85KSPS ADC with 10µA Shutdown	16-Dip	74.28	56.06	35.94
MAX195BCPE+-ND	16-Bit, 85KSPS ADC with 10µA Shutdown* ***NEW!***	16-Dip	74.28	56.06	35.94
MAX195BCWE-ND	16-Bit, 85KSPS ADC with 10µA Shutdown	16-SOIC	74.28	56.06	35.94
MAX195BEWE+-ND	16-Bit, 85KSPS ADC with 10µA Shutdown*	16-SOIC	96.57	72.88	42.86
MAX196BCAI-ND	6-Channel Multi-Range 12-Bit ADC Parallel Interface	28-SSOP	31.08	23.46	15.05
MAX196BCNI-ND	6-Channel Multi-Range 12-Bit ADC Parallel Interface	28-Dip	29.92	22.58	14.47
MAX197ACWI-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface	28-SOIC	35.35	26.68	17.11
MAX197ACWI+-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface*	28-SOIC	38.85	29.32	17.60
MAX197BCAI+-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface*	28-SSOP	31.08	23.46	15.05
MAX197BCNI-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface	28-Dip	29.92	22.58	14.47
MAX197BCNI+-ND	8-Channel Multi-Range 12-Bit DAS Parallel Interface*	28-Dip	29.92	22.58	14.47
MAX200CPP-ND	+5V Powered, Five RS-232 Trans. with Power Shutdown and .1µF External Capacitors	20-Dip	8.24	6.22	3.99
MAX201CPD-ND	+5V/+9V to +13.2V, Dual RS-232 Transceiver with .1µF External Capacitors	14-Dip	3.31	2.50	1.60
MAX201CWE+-ND	+5V/+9V to +13.2V, Dual RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	3.31	2.50	1.60
MAX202CPE+-ND	+5V Dual RS-232 Transceiver with .1µF External Capacitors*	16-Dip	3.31	2.50	1.60
MAX202CSE+-ND	+5V Dual RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	3.31	2.50	1.60
MAX202CWE+-ND	+5V Dual RS-232 Transceiver with .1µF External Capacitors*	16-SOIC	3.31	2.50	1.60
MAX202ECPE-ND	+5V RS-232 Transceiver, ESD Protected	16-Dip	4.19	3.16	2.02
MAX202ECPE+-ND	+5V RS-232 Transceiver, ESD Protected*	16-Dip	4.19	3.16	2.02
MAX202ECSE-ND	+5V RS-232 Transceiver, ESD Protected	16-SOIC	4.19	3.16	2.02
MAX202ECSE+-ND	+5V RS-232 Transceiver, ESD Protected*	16-SOIC	4.19	3.16	2.02
MAX202ECWE+-ND	+5V RS-232 Transceiver, ESD Protected*	16-SOIC	4.19	3.16	2.02
MAX202EESE+-ND	+5V RS-232 Transceiver, ESD Protected*	16-SOIC	5.41	4.08	2.62
MAX202ESE+-ND	+5V Dual RS-232 Transceiver with .1µF External Caps*	16-SOIC	3.98	3.00	1.92
MAX203CPP-ND	Complete, +5V Powered, Dual RS-232 Transceiver	20-Dip	7.45	5.62	3.60
MAX203CWP-ND	+5V Powered, Dual RS-232 Transceiver	20-SOIC	7.45	5.62	3.60
MAX203ECWP-ND	+5V RS-232 Transceiver, ESD Protected	20-SOIC	8.14	6.14	3.93
MAX203EEWP-ND	+5V RS-232 Transceiver, ESD Protected	20-SOIC	11.61	8.76	5.61
MAX204CPE-ND	+5V Quad RS-232 Transceiver with .1µF External Capacitors	16-Dip	5.88	4.44	2.85
MAX204CPE+-ND	+5V Quad RS-232 Transceiver with .1µF External Capacitors*	16-Dip	5.88	4.44	2.85
MAX205CPG-ND	Complete, +5V Powered, 5-Channel RS-232 Transceiver	24-Dip	16.38	12.36	7.92
MAX206CNG-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/3 Receivers	24-Dip	7.55	5.70	3.65
MAX206CWG-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/3 Receivers	24-SOIC	7.55	5.70	3.65
MAX206CWG+-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/3 Receivers*	24-SOIC	7.55	5.70	3.65
MAX207CNG-ND	5V RS-232 Transceiver with .1µF External Caps, 5 Drivers/3 Receivers	24-Dip	7.55	5.70	3.65
MAX207CNG+-ND	5V RS-232 Transceiver with .1µF External Caps, 5 Drivers/3 Receivers*	24-Dip	7.55	5.70	3.65
MAX207CWG-ND	5V RS-232 Transceiver with .1µF External Caps, 5 Drivers/3 Receivers	24-SOIC	7.55	5.70	3.65
MAX207CWG+-ND	5V RS-232 Transceiver with .1µF External Caps, 5 Drivers/3 Receivers*	24-SOIC	7.55	5.70	3.65
MAX208CAG+-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/4 Receivers*	24-SSOP	7.95	6.00	3.85
MAX208CNG-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/4 Receivers	24-Dip	7.55	5.70	3.65
MAX208CNG+-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/4 Receivers*	24-Dip	7.55	5.70	3.65
MAX208CWG-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/4 Receivers	24-SOIC	7.55	5.70	3.65
MAX208CWG+-ND	5V RS-232 Transceiver with .1µF External Caps, 4 Drivers/4 Receivers*	24-SOIC	7.55	5.70	3.65
MAX209CNG-ND	+5V and +12V Powered, 3 RS-232 Transmitters and 5 RS-232 Receivers with Receiver Enable and .1µF External Caps	24-Dip	7.55	5.70	3.65
MAX209CWG-ND	+5V and +12V Powered, 3 RS-232 Transmitters and 5 RS-232 Receivers with Receiver Enable and .1µF External Caps	24-SOIC	7.55	5.70	3.65
MAX211CAI+-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers with .1µF External Caps.*	28-SSOP	7.95	6.00	3.85

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX211CWI-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers with .1µF External Caps	28-SOIC	7.55	5.70	3.65
MAX211CWI+-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers with .1µF External Caps.*	28-SOIC	7.55	5.70	3.65
MAX211ECAI+-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers with .1µF Ext. Caps., 15Kv ESD*	28-SSOP	9.17	6.92	4.43
MAX213CAI-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers (2 active in shutdown) with 0.1µF External Caps	28-SSOP	7.95	6.00	3.85
MAX213CWI-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers (2 active in shutdown) with 0.1µF External Caps	28-SOIC	7.55	5.70	3.65
MAX213CWI+-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers (2 active in shutdown) with 0.1µF External Caps.*	28-SOIC	7.55	5.70	3.65
MAX213EEAI+-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers (2 Active in Shutdown) with 0.1µF External Caps*	28-SSOP	11.45	8.64	6.65
MAX214CWI+-ND	Programmable DTE/DCE, 5V RS-232 Transceiver*	28-SOIC	9.06	6.84	4.39
MAX218CPP-ND	1.8V - 4.25V Powered True RS-232 Dual Transceiver	20-Dip	4.74	3.58	2.30
MAX218CWP-ND	1.8V - 4.25V Powered True RS-232 Dual Transceiver	20-SOIC	4.74	3.58	2.30
MAX222CPN-ND	5V High Speed RS-232 Driver Receiver w/Shutdown	18-Dip	4.88	3.68	2.45
MAX222CPN+-ND	5V High Speed RS-232 Driver Receiver w/Shutdown* ***NEW!***	18-Dip	4.88	3.68	2.45
MAX222CWN-ND	5V High Speed RS-232 Driver Receiver w/Shutdown	18-SOIC	4.88	3.68	2.45
MAX222CWN+-ND	5V High Speed RS-232 Driver Receiver w/Shutdown*	18-SOIC	4.88	3.68	2.45
MAX222EWN-ND	5V High Speed RS-232 Driver Receiver w/Shutdown	18-SOIC	5.83	4.40	2.93
MAX222EWN+-ND	5V High Speed RS-232 Driver Receiver w/Shutdown*	18-SOIC	5.83	4.40	2.93
MAX223CWI-ND	+5V Powered, 4 RS-232 Transmitters and 5 RS-232 Receivers (2 Active in Shutdown)	28-SOIC	8.24	6.22	3.99
MAX225CWI-ND	+5V Multichannel RS-232 Driver/Receiver	28-SOIC	18.97	14.32	8.42
MAX230CPP-ND	+5V Powered, 5 RS-232 Transmitters with Power Shutdown	20-Dip	8.24	6.22	3.99
MAX230CWP-ND	+5V Powered, 5 RS-232 Transmitters with Power Shutdown	20-SOIC	7.55	5.70	3.65
MAX231CPD+-ND	+5V and +12V Powered Dual RS-232 Transmitters/Receivers*	14-Dip	3.31	2.50	1.60
MAX231EPD-ND	+5V and +12V Powered Dual RS-232 Transmitters/Receivers	14-Dip	3.98	3.00	1.92
MAX232ACPE-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers	16-Dip	5.51	4.16	2.77
MAX232ACPE+-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers*	16-Dip	5.51	4.16	2.77
MAX232ACSE-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers	16-SOIC	5.51	4.16	2.77
MAX232ACSE+-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers*	16-SOIC	5.51	4.16	2.77
MAX232ACWE-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers	16-SOIC	4.88	3.68	2.45
MAX232ACWE+-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers*	16-SOIC	4.88	3.68	2.45
MAX232AESE-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers	16-SOIC	6.60	4.98	2.93
MAX232AESE+-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers*	16-SOIC	6.60	4.98	2.93
MAX232AEWE-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers	16-SOIC	5.83	4.40	2.93
MAX232AEWE+-ND	+5V Powered, HS Dual RS-232 Transmitters and Receivers*	16-SOIC	5.83	4.40	2.93
MAX232CPE-ND	+5V Powered, Dual RS-232 Transmitters and Receivers	16-Dip	3.31	2.50	1.60
MAX232CPE+-ND	+5V Powered, Dual RS-232 Transmitters and Receivers*	16-Dip	3.31	2.50	1.60
MAX232CWE-ND	+5V Powered, Dual RS-232 Transmitters and Receivers	16-SOIC	3.31	2.50	1.60
MAX232CWE+-ND	+5V Powered, Dual RS-232 Transmitters and Receivers*	16-SOIC	3.31	2.50	1.60
MAX232ECPE-ND	+5V Powered, Dual RS-232 Transmitters/Receivers, ESD Prot.	16-Dip	4.19	3.16	2.02
MAX232ECPE+-ND	+5V Powered, Dual RS-232 Transmitters/Receivers, ESD Prot.*	16-Dip	4.19	3.16	2.02
MAX232ECSE-ND	+5V Powered, Dual RS-232 Transmitters/Receivers, ESD Prot.	16-SOIC	4.19	3.16	2.02
MAX232ECSE+-ND	+5V Powered, Dual RS-232 Transmitters/ Receivers, ESD Prot.*	16-SOIC	4.19	3.16	2.02
MAX232ECWE+-ND	+5V Powered, Dual RS-232 Transmitters/ Receivers, ESD Prot.*	16-SOIC	4.19	3.16	2.02
MAX232EEPE+-ND	+5V Powered, Dual RS-232 Transmitters/Receivers, ESD Prot.*	16-Dip	5.41	4.08	2.62
MAX232EESE-ND	+5V Powered, Dual RS-232 Transmitters/Receivers, ESD Prot.	16-SOIC	5.41	4.08	2.62
MAX232EESE+-ND	+5V Powered, Dual RS-232 Transmitters/ Receivers, ESD Prot.*	16-SOIC	5.41	4.08	2.62
MAX232EPE-ND	+5V Powered, Dual RS-232 Transmitters/Receivers	16-Dip	3.98	3.00	1.92
MAX232EPE+-ND	+5V Powered, Dual RS-232 Transmitters/Receivers*	16-Dip	3.98	3.00	1.92
MAX232EWE-ND	+5V Powered, Dual RS-232 Transmitters/Receivers	16-SOIC	3.98	3.00	1.92
MAX232EWE+-ND	+5V Powered, Dual RS-232 Transmitters/Receivers*	16-SOIC	3.98	3.00	1.92
MAX233ACPP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-Dip	10.76	8.12	5.20
MAX233ACWP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-SOIC	10.76	8.12	5.20
MAX233AEPP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-Dip	14.63	11.04	7.08
MAX233AEWP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-SOIC	14.63	11.04	7.08
MAX233CPP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-Dip	7.45	5.62	3.60
MAX233EPP-ND	+5V Powered, Dual RS-232 No External Components Transmitters/Receivers	20-Dip	8.93	6.74	4.32
MAX234CPE-ND	+5V Powered Quad RS-232,Transmitters	16-Dip	5.88	4.44	2.85
MAX234CPE+-ND	+5V Powered Quad RS-232, Transmitters* ***NEW!***	16-Dip	5.88	4.44	2.85
MAX234CWE-ND	+5V Powered Quad RS-232, Transmitters	16-SOIC	5.88	4.44	2.85
MAX235CPG-ND	+5V Powered, 5 RS-232 No External Comp. Transmitters and Receivers with Power Shutdown and Tri-State	24-Dip	16.38	12.36	7.92
MAX235CPG+-ND	+5V Powered, 5 RS-232 No External Comp. Transmitters and Receivers with Power Shutdown and Tri-State* ***NEW!***	24-Dip	16.38	12.36	7.92
MAX236CNG-ND	+5V Powered, 4 RS-232 Transmitters and 3 RS-232 Receivers with Power Shutdown and Tri-State	24-Dip	7.55	5.70	3.65
MAX236CNG+-ND	+5V Powered, 4 RS-232 Transmitters and 3 RS-232 Receivers with Power Shutdown and Tri-State*	24-Dip	7.55	5.70	3.65
MAX236CWG-ND	+5V Powered, 4 RS-232 Transmitters and 3 RS-232 Receivers with Power Shutdown and Tri-State	24-SOIC	7.55	5.70	3.65
MAX236CWG+-ND	+5V Powered, 4 RS-232 Transmitters and 3 RS-232 Receivers with Power Shutdown and Tri-State*	24-SOIC	7.55	5.70	3.65
MAX237CNG-ND	+5V Powered, 5 RS-232 Transmitters, 3 RS-232 Receivers	24-Dip	7.55	5.70	3.65
MAX237CNG+-ND	+5V Powered, 5 RS-232 Transmitters, 3 RS-232 Receivers*	24-Dip	7.55	5.70	3.65
MAX237CWG-ND	+5V Powered, 5 RS-232 Transmitters, 3 RS-232 Receivers	24-SOIC	7.55	5.70	3.65
MAX237CWG+-ND	+5V Powered, 5 RS-232 Transmitters, 3 RS-232 Receivers*	24-SOIC	7.55	5.70	3.65
MAX237ENG-ND	+5V Powered, 5 RS-232 Transmitters, 3 RS-232 Receivers	24-Dip	9.06	6.84	4.38
MAX238CNG-ND	+5V Powered, Quad RS-232 Transmitters /Receivers	24-Dip	7.55	5.70	3.65
MAX238CNG+-ND	+5V Powered, Quad RS-232 Transmitters/Receivers*	24-Dip	7.55	5.70	3.65
MAX238CWG-ND	+5V Powered, Quad RS-232 Transmitters/Receivers	24-SOIC	7.55	5.70	3.65
MAX238CWG+-ND	+5V Powered, Quad RS-232 Transmitters/Receivers*	24-SOIC	7.55	5.70	3.65
MAX239CNG-ND	+5V and +12V Powered, 3 RS-232 Transmitters and 5 RS-232 Receivers w/Receiver Enable	24-Dip	7.55	5.70	3.65
MAX239CNG+-ND	+5V and +12V Powered, 3 RS-232 Transmitters and 5 RS-232 Receivers w/Receiver Enable* ***NEW!***	24-Dip	7.55	5.70	3.65

** RoHS Compliant*

(Continued)

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MAXIM SPECIALIZED INTEGRATED CIRCUITS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX240CMH+-ND	+5V Powered, 5 RS-232 Transmitters and Receivers with Power Shutdown and Tri-State*	44-MQFP	12.40	9.36	6.00
MAX241CWI-ND	+5V Powered, 4 RS-232 Transmitters, 5 Receivers with Power Shutdown and Receiver 3-State Enable	28-SOIC	7.55	5.70	3.65
MAX241CWI+-ND	+5V Powered, 4 RS-232 Transmitters, 5 Receivers with Power Shutdown and Receiver 3-State Enable*	28-SOIC	7.55	5.70	3.65
MAX242CPN-ND	High Speed 5V Dual RS-232 Driver/Receiver	18-Dip	4.88	3.68	2.45
MAX242CWN-ND	High Speed 5V Dual RS-232 Driver/Receiver	18-SOIC	4.88	3.68	2.45
MAX242CWN+-ND	High Speed 5V Dual RS-232 Driver/Receiver*	18-SOIC	4.88	3.68	2.45
MAX242EPN-ND	High Speed 5V Dual RS-232 Driver/Receiver	18-Dip	5.83	4.40	2.93
MAX242EWN-ND	High Speed 5V Dual RS-232 Driver/Receiver	18-SOIC	5.83	4.40	2.93
MAX242EWN+-ND	High Speed 5V Dual RS-232 Driver/Receiver*	18-SOIC	5.83	4.40	2.93
MAX243CPE-ND	5V Powered Dual RS-232 Driver/Receiver	16-Dip	5.51	4.16	2.77
MAX243CSE-ND	5V Powered Dual RS-232 Driver/Receiver	16-SOIC	5.51	4.16	2.77
MAX243CSE+-ND	5V Powered Dual RS-232 Driver/Receiver*	16-SOIC	5.51	4.16	2.77
MAX248EQH-D-ND	5V RS-232 Transceiver	44-PLCC	26.37	19.90	11.70
MAX248EQH+D-ND	5V RS-232 Transceiver* ***NEW!***	44-PLCC	26.37	19.90	11.70
MAX249CQH-ND	5V, Multi-Channel RS-232 Driver/Receiver	44-PLCC	20.27	15.30	10.20
MAX249CQH+D-ND	5V, Multi-Channel RS-232 Driver/Receiver* ***NEW!***	44-PLCC	20.27	15.30	10.20
MAX250CPD+-ND	+5V, Isolated RS-232 Driver/Receiver*	14-Dip	7.66	5.78	3.40
MAX250CSD-ND	+5V, Isolated RS-232 Driver/Receiver	14-SOIC	8.43	6.36	3.74
MAX250CSD+-ND	+5V, Isolated RS-232 Driver/Receiver*	14-SOIC	8.43	6.36	3.74
MAX250ESD-ND	+5V, Isolated RS-232 Driver/Receiver	14-SOIC	12.03	9.08	5.34
MAX250ESD+-ND	+5V, Isolated RS-232 Driver/Receiver*	14-SOIC	12.03	9.08	5.34
MAX251CPD-ND	+5V, Isolated RS-232 Driver/Receiver	14-Dip	7.66	5.78	3.40
MAX251CPD+-ND	+5V, Isolated RS-232 Driver/Receiver*	14-Dip	7.66	5.78	3.40
MAX251CSD+-ND	+5V, Isolated RS-232 Driver/Receiver*	14-SOIC	8.43	6.36	3.74
MAX251EPD-ND	+5V, Isolated RS-232 Driver/Receiver	14-Dip	10.94	8.26	4.86
MAX251ESD-ND	+5V, Isolated RS-232 Driver/Receiver	14-SOIC	12.03	9.08	5.34
MAX253CPA-ND	Transformer Driver for Isolated RS-485 Interface	8-Dip	2.81	2.12	1.36
MAX253CPA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-Dip	2.81	2.12	1.36
MAX253CSA-ND	Transformer Driver for Isolated RS-485 Interface	8-SOIC	2.81	2.12	1.36
MAX253CSA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-SOIC	2.81	2.12	1.36
MAX253CUA-ND	Transformer Driver for Isolated RS-485 Interface	8-µMAX	3.07	2.32	1.36
MAX253CUA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-µMAX	3.07	2.32	1.36
MAX253EPA-ND	Transformer Driver for Isolated RS-485 Interface	8-Dip	3.98	3.00	1.77
MAX253EPA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-Dip	3.98	3.00	1.77
MAX253ESA+-ND	Transformer Driver for Isolated RS-485 Interface*	8-SOIC	3.66	2.76	2.13
MAX274ACWI-ND	8th-Order Analog Filter	28-SOIC	14.97	11.30	7.25
MAX274BCWI+-ND	8th-Order Analog Filter* ***NEW!***	28-SOIC	12.40	9.36	6.00
MAX261BCNG-ND	µP Programmable Universal Switched Cap Filter	24-Dip	18.95	14.30	9.17
MAX274BCNG-ND	8th-Order Analog Filter	24-Dip	13.62	10.28	6.59
MAX274BCWI-ND	8th-Order Analog Filter	28-SOIC	13.62	10.28	6.59
MAX275BCPP-ND	4th-Order Analog Filter	20-Dip	8.51	6.42	4.11
MAX280CPA-ND	5th-Order Zero-Error, Butterworth Switched Cap LP Filter	8-Dip	11.50	8.68	5.57
MAX280CWE-ND	5th-Order Zero-Error, Butterworth Switched Cap LP Filter	16-SOIC	11.50	8.68	5.57
MAX281ACPA-ND	5th-Order Zero Error, Bessel Switched Cap LP Filter	8-Dip	14.02	10.58	6.79
MAX281ACWE-ND	5th-Order Zero Error, Bessel Switched Cap LP Filter	16-SOIC	14.02	10.58	6.79
MAX301CPE-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPST)	16-Dip	4.58	3.46	2.47
MAX301CSE-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPST)	16-SOIC	5.51	4.16	2.97
MAX301CSE+-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPST)* ***NEW!***	16-SOIC	5.51	4.16	2.97
MAX303CPE-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPDT)	16-Dip	9.65	7.28	5.22
MAX303CPE+-ND	Prec. Dual Low On Resistance Matched CMOS Switch (SPDT)* ***NEW!***	16-Dip	9.65	7.28	5.22
MAX303CSE-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)	16-SOIC	11.55	8.72	6.24
MAX303CSE+-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)* ***NEW!***	16-SOIC	11.55	8.72	6.24
MAX303ESE-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)	16-SOIC	12.16	9.18	5.40
MAX303ESE+-ND	Precision Dual Low On Resistance Matched CMOS Switch (SPDT)*	16-SOIC	12.16	9.18	5.40
MAX305CPE-ND	Precision Dual, Matched CMOS Switches (DPST, NO)	16-Dip	9.65	7.28	5.22
MAX305CSE-ND	Precision Dual, Matched CMOS Switches (DPST, NO)	16-SOIC	11.55	8.72	6.24
MAX306CPI-ND	Precision 16-Channel High Perform CMOS Analog Mux	28-Dip	11.53	8.70	6.21
MAX306CWI-ND	Precision 16-Ch. High Perform CMOS Analog Mux	28-SOIC	15.90	12.00	8.58
MAX306CWI+-ND	Precision 16-Ch. High Perform CMOS Analog Mux*	28-SOIC	15.90	12.00	8.58
MAX307CPI-ND	Precision Dual 8-Ch. High Perf. CMOS Analog Mux	28-Dip	11.53	8.70	6.21
MAX307CPI+-ND	Precision Dual 8-Ch. High Perf. CMOS Analog Mux* ***NEW!***	28-Dip	11.53	8.70	6.21
MAX307CWI+-ND	Precision Dual 8-Ch. High Perf. CMOS Analog Mux*	28-SOIC	15.90	12.00	8.58
MAX308CPE-ND	Precision 8-Channel, High Perf. CMOS Analog Mux	16-Dip	7.47	5.64	4.04
MAX308CPE+-ND	Precision 8-Channel, High Perf. CMOS Analog Mux*	16-Dip	7.47	5.64	4.04
MAX308CSE-ND	Precision 8-Channel, High Perf. CMOS Analog Mux	16-SOIC	8.96	6.76	4.84
MAX308CSE+-ND	Precision 8-Channel, High Perf. CMOS Analog Mux*	16-SOIC	8.96	6.76	4.84
MAX308ESE-ND	Precision 8-Channel, High Perf. CMOS Analog Mux	16-SOIC	9.33	7.04	4.14
MAX308ESE+-ND	Precision 8-Channel, High Perf. CMOS Analog Mux*	16-SOIC	9.33	7.04	4.14
MAX309CPE-ND	Precision Dual 4-Ch. High Perf. CMOS Analog Mux	16-Dip	7.47	5.64	4.04
MAX309CPE+-ND	Precision Dual 4-Ch. High Perf. CMOS Analog Mux* ***NEW!***	16-Dip	7.47	5.64	4.04
MAX309CSE-ND	Precision Dual 4-Ch. High Perf. CMOS Analog Mux	16-SOIC	8.96	6.76	4.84
MAX309CSE+-ND	Precision Dual 4-Ch. High Perf. CMOS Analog Mux*	16-SOIC	8.96	6.76	4.84
MAX310CPE-ND	CMOS RF/Video Mux	16-Dip	17.25	13.02	7.66
MAX310CPE+-ND	CMOS RF/Video Mux* ***NEW!***	16-Dip	17.25	13.02	7.66
MAX313CSE-ND	CMOS Analog Switch, Quad, SPST	16-SOIC	10.71	8.08	4.75
MAX313CSE+-ND	CMOS Analog Switch, Quad, SPST*	16-SOIC	10.71	8.08	4.75
MAX317CPA-ND	Precision SPST Normally Closed CMOS Analog Switch	8-Dip	3.21	2.42	1.74
MAX317CSA-ND	Precision SPST Normally Closed CMOS Analog Switch	8-SOIC	3.74	2.82	2.02
MAX317CSA+-ND	Precision SPST Normally Closed CMOS Analog Switch*	8-SOIC	3.74	2.82	2.02
MAX318CPA-ND	Precision SPST Normally Open Analog Switch	8-Dip	3.21	2.42	1.74
MAX318CPA+-ND	Precision SPST Normally Open Analog Switch* ***NEW!***	8-Dip	3.21	2.42	1.74
MAX318CSA+-ND	Precision SPST Normally Open Analog Switch*	8-SOIC	3.74	2.82	2.02
MAX319CPA-ND	Precision SPDT CMOS Analog Switch	8-Dip	4.29	3.24	2.31
MAX319CPA+-ND	Precision SPDT CMOS Analog Switch* ***NEW!***	8-Dip	4.29	3.24	2.31
MAX319CSA-ND	Precision SPDT CMOS Analog Switch	8-SOIC	4.74	3.58	2.56
MAX319CSA+-ND	Precision SPDT CMOS Analog Switch*	8-SOIC	4.74	3.58	2.56
MAX319ESA+-ND	Precision SPDT CMOS Analog Switch*	8-SOIC	5.51	4.16	2.45
MAX323CSA-ND	Precision, Single Supply, SPST Analog Switch	8-SOIC	3.26	2.46	1.57
MAX323CSA+-ND	Precision, Single Supply, SPST Analog Switch* ***NEW!***	8-SOIC	3.26	2.46	1.57
MAX326CPE-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch	16-Dip	8.69	6.56	4.37
MAX326CPE+-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch*	16-Dip	8.69	6.56	4.37
MAX326CSE+-ND	Quad SPST, Ultra-Low Leakage, CMOS Analog Switch*	16-SOIC	9.54	7.20	4.80
MAX328CPE-ND	8-Channel Ultra-Low Leakage Mono CMOS Multiplexer	16-Dip	11.32	8.54	5.69
MAX328CWE-ND	8-Channel Ultra-Low Leakage Mono CMOS Multiplexer	16-SOIC	12.43	9.38	6.26
MAX328EWE+-ND	8-Channel Ultra-Low Leakage Mono CMOS Multiplexer*	16-SOIC	14.71	11.10	8.82
MAX329CPE-ND	Diff. 4-Channel Ultra-Low Leakage Mono CMOS Mux	16-Dip	11.32	8.54	5.69
MAX329CWE-ND	Diff. 4-Channel Ultra-Low Leakage Mono CMOS Mux	16-SOIC	12.43	9.38	6.26
MAX329CWE+-ND	Diff. 4-Channel Ultra-Low Leakage Mono CMOS Mux*	16-SOIC	12.43	9.38	6.26
MAX333ACPP-ND	Quad SPDT CMOS Analog Switch	20-Dip	8.00	6.04	4.03
MAX333ACPP+-ND	Quad SPDT CMOS Analog Switch* ***NEW!***	20-Dip	8.00	6.04	4.03
MAX333ACUP-ND	Quad SPDT CMOS Analog Switch	20-TSSOP	9.46	7.14	4.77
MAX333ACUP+-ND	Quad SPDT CMOS Analog Switch*	20-TSSOP	9.46	7.14	4.77
MAX333ACWP+-ND	Quad SPDT CMOS Analog Switch*	20-SOIC	10.34	7.80	5.20
MAX333AEUP+-ND	Quad SPDT CMOS Analog Switch*	20-TSSOP	10.41	7.86	5.24
MAX333AEWP+-ND	Quad SPDT CMOS Analog Switch*	20-SOIC	13.14	9.92	6.61
MAX333CPP-ND	Quad SPDT CMOS Analog Switch	20-Dip	7.21	5.44	3.63
MAX333CPP+-ND	Quad SPDT CMOS Analog Switch*	20-Dip	7.21	5.44	3.63
MAX333CWP-ND	Quad SPDT CMOS Analog Switch	20-SOIC	9.30	7.02	4.68
MAX333CWP+-ND	Quad SPDT CMOS Analog Switch*	20-SOIC	9.30	7.02	4.68
MAX335CNG-ND	Serial Controlled, 8-Channel SPST Switch	24-Dip	7.10	5.36	3.44
MAX335CWG-ND	Serial Controlled, 8-Channel SPST Switch	24-SOIC	7.79	5.88	3.78
MAX335CWG+-ND	Serial Controlled, 8-Channel SPST Switch*	24-SOIC	7.79	5.88	3.78
MAX335EWG-ND	Serial Controlled, 8-Channel SPST Switch	24-SOIC	8.59	6.48	3.89
MAX335EWG+-ND	Serial Controlled, 8-Channel SPST Switch*	24-SOIC	8.59	6.48	3.89
MAX336CAI-ND	16-Channel, Low-Leakage, CMOS Analog Mux	28-SSOP	11.16	8.42	4.95
MAX336CAI+-ND	16-Channel, Low-Leakage, CMOS Analog Mux*	28-SSOP	11.16	8.42	4.95
MAX338ESE+-ND	8-Channel, Low-Leakage, CMOS Analog Mux*	16-SOIC	8.19	6.18	4.36
MAX349CAP+-ND	8-Channel, Serially Controlled, Low-Voltage Mux*	20-SSOP	8.22	6.20	3.64
MAX350CPN-ND	Dual 4-Channel, Serially Controlled, Low-Voltage Mux	18-Dip	7.45	5.62	3.31
MAX351CPE-ND	Precision Quad SPST Analog Switch Normally Closed	16-Dip	6.60	4.98	3.56
MAX351CSE-ND	Precision Quad SPST Analog Switch Normally Closed	16-SOIC	8.56	6.46	4.62
MAX351CSE+-ND	Precision Quad SPST Analog Switch Normally Closed*	16-SOIC	8.56	6.46	4.62
MAX352CPE-ND	Precision Quad SPST Analog Switch Normally Open	16-Dip	6.60	4.98	3.56
MAX352CSE-ND	Precision Quad SPST Analog Switch Normally Open	16-SOIC	8.56	6.46	4.62
MAX352CSE+-ND	Precision Quad SPST Analog Switch Normally Open*	16-SOIC	8.56	6.46	4.62
MAX352ESE-ND	Precision Quad SPST Analog Switch Normally Open	16-SOIC	8.80	6.64	3.90
MAX352ESE+-ND	Precision Quad SPST Analog Switch Normally Open*	16-SOIC	8.80	6.64	3.90
MAX353CPE-ND	Precision Quad SPST Analog Switch 2 Normally Closed and 2 Normally Open	16-Dip	6.60	4.98	3.56
MAX353CSE-ND	Precision Quad SPST Analog Switch 2 Normally Closed and 2 Normally Open	16-SOIC	8.56	6.46	4.62
MAX353CSE+-ND	Precision Quad SPST Analog Switch 2 Normally Closed and 2 Normally Open* ***NEW!***	16-SOIC	8.56	6.46	4.62
MAX354CPE-ND	Single 8-Channel Fault Protected Analog Mux	16-Dip	10.84	8.18	5.25
MAX354CWE-ND	Single 8-Channel Fault Protected Analog Mux	16-SOIC	10.84	8.18	5.25
MAX354CWE+-ND	Single 8-Channel Fault Protected Analog Mux*	16-SOIC	10.84	8.18	5.25
MAX354EWE-ND	Single 8-Channel Fault Protected Analog Mux	16-SOIC	11.93	9.00	5.29
MAX355CPE-ND	Dual 4-Channel Fault Protected Analog Mux	16-Dip	10.84	8.18	5.25
MAX355CWE+-ND	Dual 4-Channel Fault Protected Analog Mux*	16-SOIC	10.84	8.18	5.25
MAX358CPE-ND	Fault Protected 8-Channel Multiplexer	16-Dip	10.84	8.18	5.25
MAX358CPE+-ND	Fault Protected 8-Channel Multiplexer*	16-Dip	10.84	8.18	5.25
MAX358CWE+-ND	Fault Protected 8-Channel Multiplexer*	16-SOIC	10.84	8.18	5.25
MAX359CPE-ND	Fault Protected Differential 4-Channel Multiplexer	16-Dip	10.84	8.18	5.25
MAX359CPE+-ND	Fault Protected Differential 4-Channel Multiplexer* ***NEW!***	16-Dip	10.84	8.18	5.25
MAX359CWE-ND	Fault Protected Differential 4-Channel Multiplexer	16-SOIC	10.84	8.18	5.25
MAX359CWE+-ND	Fault Protected Differential 4-Channel Multiplexer*	16-SOIC	10.84	8.18	5.25
MAX361CSE+-ND	Precision Quad SPST Analog Switch N/C 3-Ohm Tolerance*	16-SOIC	7.00	5.28	3.79
MAX362CPE-ND	Precision Quad SPST Analog Switch N/O 3-Ohm Tolerance	16-Dip	5.80	4.38	3.13
MAX362CSE-ND	Precision Quad SPST Analog Switch N/O 3-Ohm Tolerance	16-SOIC	7.00	5.28	3.79
MAX364CPE-ND	Precision Quad SPST Analog Switch N/C 2-Ohm Tolerance	16-Dip	3.42	2.58	1.85
MAX364CSE+-ND	Precision Quad SPST Analog Switch N/C 2-Ohm Tolerance*	16-SOIC	3.42	2.58	1.85
MAX365CPE-ND	Precision Quad SPST Analog Switch N/O 2-Ohm Tolerance	16-Dip	3.42	2.58	1.85
MAX365CSE-ND	Precision Quad SPST Analog Switch N/O 2-Ohm Tolerance	16-SOIC	3.42	2.58	1.85
MAX365CSE+-ND	Precision Quad SPST Analog Switch N/O 2-Ohm Tolerance*	16-SOIC	3.42	2.58	1.85
MAX367CWN-ND	8-Signal Line Circuit Protectors	18-SOIC	6.70	5.06	3.24
MAX378CPE-ND	High Voltage, Fault Protected Analog Multiplexer	16-Dip	15.90	12.00	7.70
MAX378CWG-ND	High Voltage, Fault Protected Analog Multiplexer	24-SOIC	15.90	12.00	7.70
MAX388CPN-ND	8-Channel, High Voltage, Fault-Protected Multiplexer	18-Dip	17.33	13.08	8.39
MAX391CSE-ND	Prec., Quad, SPST Analog Four Normally Closed Switches	16-SOIC	4.29	3.24	2.08
MAX391CSE+-ND	Prec., Quad, SPST Analog Four Normally Closed Switches* ***NEW!***	16-SOIC	4.29	3.24	2.08
MAX393CSE-ND	Prec., Quad, SPST Analog Two Normally Open and Two Normally Closed Switches	16-SOIC	4.29	3.24	2.08
MAX394CPP-ND	Low Voltage Quad SPDT CMOS Analog Switch	20-Dip	9.09	6.86	4.58
MAX394CWP-ND	Low Voltage Quad SPDT CMOS Analog Switch	20-SOIC	11.71	8.84	5.90
MAX394CWP+-ND	Low Voltage Quad SPDT CMOS Analog Switch*	20-SOIC	11.71	8.84	5.90
MAX396CAI-ND	Precision, 16-Channel, Low-Voltage, CMOS Analog Mux	28-SSOP	15.85	11.96	8.54
MAX396CAI+-ND	Precision, 16-Channel, Low-Voltage, CMOS Analog Mux*	28-SSOP	15.85	11.96	8.54
MAX407CPA-ND	1.2µA Max., Dual, Single Supply Op Amp	8-Dip	7.90	5.96	3.99
MAX407CSA+-ND	1.2µA Max., Dual, Single Supply Op Amp*	8-SOIC	7.90	5.96	3.99
MAX409BCPA-ND	1.2µA Single Supply Op Amp	8-Dip	4.88	3.68	2.37
MAX409BCSA-ND	1.2µA Single Supply Op Amp	8-SOIC	4.88	3.68	2.37
MAX409BCSA+-ND	1.2µA Single Supply Op Amp*	8-SOIC	4.88	3.68	2.37
MAX410CPA-ND	28MHz Low-Noise Low Voltage Precision Op Amp	8-Dip	5.80	4.38	2.82
MAX410CSA-ND	28MHz Low Noise Low Voltage Precision Op Amp	8-SOIC	5.80	4.38	2.82
MAX410CSA+-ND	28MHz Low Noise Low Voltage Precision Op Amp*	8-SOIC	5.80	4.38	2.82
MAX414CPD-ND	Low Noise Quad Op Amp	14-Dip	12.40	9.36	6.00
MAX414CSD-ND	Low Noise Quad Op Amp	14-SOIC	12.40	9.36	6.00
MAX414CSD+-ND	Low Noise Quad Op Amp*	14-SOIC	12.40	9.36	6.00
MAX418CPD-ND	1.2µA Quad Single Supply Op Amp	14-Dip	9.96	7.52	4.82
MAX418CPD+-ND	1.2µA Quad Single Supply Op Amp* ***NEW!***	14-Dip	9.96	7.52	4.82
MAX418CSD-ND	1.2µA Quad Single Supply Op Amp	14-SOIC	9.96	7.52	4.82
MAX420CPA-ND	15V Chopper Stabilized Op Amp	8-Dip	8.98	6.78	4.38
MAX420CPA+-ND	15V Chopper Stabilized Op Amp* ***NEW!***	8-Dip	8.98	6.78	4.38
MAX427CPA-ND	Ultra Low Noise Precision Op Amp	8-Dip	4.40	3.32	2.13
MAX435CSD-ND	275MHz, Diff. Out, Wideband Transconductance Amp	14-SOIC	6.81	5.14	3.29
MAX437CPA-ND	Ultra Low Noise Precision Op Amplifier	8-Dip	4.40	3.32	2.13
MAX437CSA-ND	Ultra Low Noise Precision Op Amp	8-SOIC	5.51	4.16	2.67

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX452CPA-ND	50MHz CMOS Video Amplifier	8-Dip	6.76	5.10	3.40
MAX452CPA+-ND	50MHz CMOS Video Amplifier* ***NEW!***	8-Dip	6.76	5.10	3.40
MAX453CPA-ND	2-Channel 50MHz Video Multiplexer/Amp.	8-Dip	9.43	7.12	4.76
MAX453CPA+-ND	2-Channel 50MHz Video Multiplexer/Amp* ***NEW!***	8-Dip	9.43	7.12	4.76
MAX454CPD-ND	4-Channel 50MHz Video Multiplexer/Amp	14-Dip	12.59	9.50	6.34
MAX454CPD+-ND	4-Channel 50MHz Video Multiplexer/Amp*	14-Dip	12.59	9.50	6.34
MAX454CSD-ND	4-Channel 50MHz Video Multiplexer/Amp	14-SOIC	13.86	10.46	6.98
MAX454CSD+-ND	4-Channel 50MHz Video Multiplexer/Amp*	14-SOIC	13.86	10.46	6.98
MAX455CPP-ND	8-Channel 50MHz Video Multiplexer/Amp	20-Dip	20.96	15.82	10.56
MAX455CPP+-ND	8-Channel 50MHz Video Multiplexer/Amp*	20-Dip	20.96	15.82	10.56
MAX455CWP-ND	8-Channel 50MHz Video Multiplexer/Amp	20-SOIC	23.06	17.40	11.60
MAX456CPL-ND	8x8 Crosspoint Video Switch	40-Dip	50.03	37.76	24.20
MAX471CSA-ND	High-Side Current-Sense Precision Amp	8-SOIC	6.20	4.68	2.75
MAX473CPA+-ND	Single Supply 10MHz Op Amp*	8-Dip	3.58	2.70	1.74
MAX473CSA-ND	Single Supply 10MHz Op Amp	8-SOIC	3.58	2.70	1.74
MAX473CSA+-ND	Single Supply 10MHz Op Amp*	8-SOIC	3.58	2.70	1.74
MAX474CPA-ND	Single Supply 10MHz Dual Op Amp	8-Dip	5.57	4.20	2.69
MAX475CSD-ND	Single Supply 10MHz Quad Op Amp	14-SOIC	8.93	6.74	4.32
MAX477EPA-ND	300MHz High-Speed Op Amp	8-Dip	6.36	4.80	2.82
MAX477EPA+-ND	300MHz High-Speed Op Amp*	8-Dip	6.36	4.80	2.82
MAX479CSD-ND	17µA Max Quad Single Supply Precision Op Amp	14-SOIC	7.90	5.96	3.83
MAX479CSD+-ND	17µA Max Quad Single Supply Precision Op Amp* ***NEW!***	14-SOIC	7.90	5.96	3.83
MAX481CPA-ND	RS-485 Transceiver with Low I Shutdown Slew-Rate Ltd, 500µA	8-Dip	2.76	2.08	1.33
MAX481CPA+-ND	RS-485 Transceiver with Low I Shutdown Slew-Rate Ltd, 500µA* ***NEW!***	8-Dip	2.76	2.08	1.33
MAX483CPA-ND	RS-485/RS-422 Transceiver, Low Power	8-Dip	2.76	2.08	1.33
MAX483CPA+-ND	RS-485/RS-422 Transceiver, Low Power*	8-Dip	2.76	2.08	1.33
MAX483ECSA-ND	RS-485/RS-422 Transceiver, Low Power, ESD Prot.	8-SOIC	3.42	2.58	1.66
MAX483ECSA+-ND	RS-485/RS-422 Transceiver, Low Power, ESD Prot.*	8-SOIC	3.42	2.58	1.66
MAX485CPA-ND	RS-485 Low Power Transceiver	8-Dip	2.76	2.08	1.33
MAX485CPA+-ND	RS-485 Low Power Transceiver*	8-Dip	2.76	2.08	1.33
MAX485CSA+-ND	RS-485 Low Power Transceiver*	8-SOIC	2.76	2.08	1.33
MAX487CPA-ND	RS-485/RS-422 Transceiver with Low Power Shutdown	8-Dip	2.81	2.12	1.36
MAX487CPA+-ND	RS-485/RS-422 Transceiver with Low Power Shutdown*	8-Dip	2.81	2.12	1.36
MAX487CSA-ND	RS-485/RS-422 Transceiver with Low Power Shutdown	8-SOIC	2.81	2.12	1.36
MAX487CSA+-ND	RS-485/RS-422 Transceiver with Low Power Shutdown*	8-SOIC	2.81	2.12	1.36
MAX487EESA-ND	RS-485/RS-422 Transceiver with Low Power Shutdown	8-SOIC	4.93	3.72	2.38
MAX487EESA+-ND	RS-485/RS-422 Transceiver with Low Power Shutdown*	8-SOIC	4.93	3.72	2.38
MAX488CPA+-ND	RS-485/RS-422 Transceiver with Low Power Low Slew*	8-Dip	2.81	2.12	1.36
MAX488CSA-ND	RS-485/RS-422 Transceiver with Low Power Low Slew	8-SOIC	2.81	2.12	1.36
MAX488CSA+-ND	RS-485/RS-422 Transceiver with Low Power Low Slew*	8-SOIC	2.81	2.12	1.36
MAX488ECSA-ND	RS-485/RS-422 Transceiver with Low Power Low Slew	8-SOIC	3.42	2.58	1.66
MAX488ECSA+-ND	RS-485/RS-422 Transceiver with Low Power Low Slew*	8-SOIC	3.42	2.58	1.66
MAX488EESA-ND	RS-485/RS-422 Transceiver with Low Power Low Slew	8-SOIC	4.93	3.72	2.38
MAX488EESA+-ND	RS-485/RS-422 Transceiver with Low Power Low Slew*	8-SOIC	4.93	3.72	2.38
MAX489CPD-ND	RS-485/RS-422 Transceiver with Drive Enable	14-Dip	2.81	2.12	1.36
MAX489CPD+-ND	RS-485/RS-422 Transceiver with Drive Enable*	14-Dip	2.81	2.12	1.36
MAX489CSD+-ND	RS-485/RS-422 Transceiver with Drive Enable*	14-SOIC	2.81	2.12	1.36
MAX489ECSD+-ND	RS-485/RS-422 Transceiver with Drive Enable*	14-SOIC	3.42	2.58	1.99
MAX489EPD-ND	RS-485/RS-422 Transceiver with Drive Enable	14-Dip	3.52	2.66	1.70
MAX489EPD+-ND	RS-485/RS-422 Transceiver with Drive Enable*	14-Dip	3.52	2.66	1.70
MAX490CPA-ND	RS-485/RS-422 Transceiver with Full Duplex	8-Dip	2.81	2.12	1.36
MAX490CPA+-ND	RS-485/RS-422 Transceiver with Full Duplex* ***NEW!***	8-Dip	2.81	2.12	1.36
MAX490CSA-ND	RS-485/RS-422 Transceiver with Full Duplex	8-SOIC	2.81	2.12	1.36
MAX490CSA+-ND	RS-485/RS-422 Transceiver with Full Duplex*	8-SOIC	2.81	2.12	1.36
MAX490ECPA-ND	RS-485/RS-422 Transceiver with Full Duplex, ESD Prot.	8-Dip	3.42	2.58	1.66
MAX490ECPA+-ND	RS-485/RS-422 Transceiver with Full Duplex, ESD Prot.*	8-Dip	3.42	2.58	1.66
MAX491CPD-ND	RS-485/RS-422 Transceiver, Low Power	14-Dip	2.81	2.12	1.36
MAX491CPD+-ND	RS-485/RS-422 Transceiver, Low Power*	14-Dip	2.81	2.12	1.36
MAX491CSD+-ND	RS-485/RS-422 Transceiver, Low Power*	14-SOIC	2.81	2.12	1.63
MAX491ECSD-ND	RS-485/RS-422 Transceiver, Low Power, ESD Prot.	14-SOIC	3.42	2.58	1.66
MAX491ECSD+-ND	RS-485/RS-422 Transceiver, Low Power, ESD Prot.*	14-SOIC	3.42	2.58	1.66
MAX492CPA-ND	Single Supply Dual Op Amp	8-Dip	5.57	4.20	2.69
MAX492CPA+-ND	Single Supply Dual Op Amp*	8-Dip	5.57	4.20	2.69
MAX492CSA-ND	Single Supply Dual Op Amp	8-SOIC	5.57	4.20	2.69
MAX492CSA+-ND	Single Supply Dual Op Amp*	8-SOIC	5.57	4.20	2.69
MAX494CPD-ND	Single Supply Quad Op Amp	14-Dip	8.93	6.74	4.32
MAX494CPD+-ND	Single Supply Quad Op Amp*	14-Dip	8.93	6.74	4.32
MAX494CSD-ND	Single Supply Quad Op Amp	14-SOIC	8.93	6.74	4.32
MAX494CSD+-ND	Single Supply Quad Op Amp*	14-SOIC	8.93	6.74	4.32
MAX495CPA-ND	Single Supply Op Amp	8-Dip	3.58	2.70	1.74
MAX495CPA+-ND	Single Supply Op Amp* ***NEW!***	8-Dip	3.58	2.70	1.74
MAX495CSA-ND	Single Supply Op Amp	8-SOIC	3.58	2.70	1.74
MAX495CSA+-ND	Single Supply Op Amp*	8-SOIC	3.58	2.70	1.74
MAX497CSE-ND	375MHz Quad Closed-Loop Video Buffer	16-SOIC	13.12	9.90	5.82
MAX497CSE+-ND	375MHz Quad Closed-Loop Video Buffer*	16-SOIC	13.12	9.90	5.82
MAX500BCPE-ND	Quad Serial Input 8-Bit D/A Converter	16-Dip	14.73	11.12	7.13
MAX500BCPE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-Dip	14.73	11.12	7.13
MAX500BCWE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-SOIC	14.73	11.12	7.13
MAX502BCNG-ND	Parallel Voltage Output 12-Bit Multiplexer DAC	24-Dip	15.42	11.64	7.46
MAX502BCWG-ND	Parallel Voltage Output 12-Bit Multiplexer DAC	24-SOIC	15.42	11.64	7.46
MAX503CNG-ND	5V Low Power Parallel Input Voltage Output 10-Bit DAC	24-Dip	9.06	6.84	4.39
MAX503CWG+-ND	5V Low Power Parallel Input Voltage Output 10-Bit DAC*	24-SOIC	9.06	6.84	4.39
MAX504CPD-ND	5V Low Power Voltage Output Serial 10-Bit DAC	14-Dip	8.61	6.50	4.17
MAX504CPD+-ND	5V Low Power Voltage Output Serial 10-Bit DAC* ***NEW!***	14-Dip	8.61	6.50	4.17
MAX504CSD-ND	5V Low Power Voltage Output Serial 10-Bit DAC	14-SOIC	8.61	6.50	4.17
MAX504CSD+-ND	5V Low Power Voltage Output Serial 10-Bit DAC*	14-SOIC	8.61	6.50	4.17
MAX505ACWG+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 4 Separate Reference Inputs*	24-SOIC	25.28	19.08	12.24
MAX505BCNG-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 4 Separate Reference Inputs	24-Dip	19.48	14.70	9.42
MAX505BCNG+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 4 Separate Reference Inputs* ***NEW!***	24-Dip	19.48	14.70	9.42
MAX506ACWP+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 1 Reference Input*	20-SOIC	22.18	16.74	13.30
MAX506BCPP-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 1 Reference Input	20-Dip	17.07	12.88	8.26
MAX506BCPP+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 1 Reference Input*	20-Dip	17.07	12.88	8.26
MAX506BCWP-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 1 Reference Input	20-SOIC	17.07	12.88	8.26
MAX506BCWP+-ND	CMOS, +5V, Quad, 8-Bit DAC with Rail-to-Rail Outputs and 1 Reference Input*	20-SOIC	17.07	12.88	8.26
MAX507BCNG-ND	Parallel Volt Output, 12-Bit DAC with Internal Reference	24-Dip	19.95	15.06	9.67
MAX507BCWG+-ND	Parallel Volt Output, 12-Bit DAC with Internal Reference*	24-SOIC	19.95	15.06	9.67
MAX508BCPP-ND	12-Bit DAC with Internal Reference, (8+4) Voltage Output	20-Dip	21.76	16.42	10.54
MAX508BCWP-ND	12-Bit DAC with Internal Reference, (8+4) Voltage Output	20-SOIC	21.76	16.42	10.54
MAX508BCWP+-ND	12-Bit DAC with Internal Reference, (8+4) Voltage Output*	20-SOIC	21.76	16.42	10.54
MAX509BCPP-ND	Quad Serial Input 8-Bit D/A Converter	20-Dip	14.95	11.28	7.24
MAX509BCWP-ND	Quad Serial Input 8-Bit D/A Converter	20-SOIC	14.95	11.28	7.24
MAX509BCWP+-ND	Quad Serial Input 8-Bit D/A Converter*	20-SOIC	14.95	11.28	7.24
MAX510ACPE-ND	Quad Serial Input 8-Bit D/A Converter	16-Dip	17.38	13.12	8.42
MAX510BCPE-ND	Quad Serial Input 8-Bit D/A Converter	16-Dip	14.47	10.92	7.01
MAX510BCPE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-Dip	14.47	10.92	7.01
MAX510BCWE+-ND	Quad Serial Input 8-Bit D/A Converter*	16-SOIC	14.47	10.92	7.01
MAX512CPD-ND	8-Bit Voltage Out D/A Converter	14-Dip	8.22	6.20	3.98
MAX512CSD+-ND	8-Bit Voltage Out D/A Converter*	14-SOIC	8.22	6.20	3.98
MAX514BCNG-ND	Quad CMOS 12-Bit Serial Input Mult. D/A Converter	24-Dip	38.88	29.34	18.81
MAX514BCWI-ND	Quad CMOS 12-Bit Serial Input Mult. D/A Converter	28-SOIC	38.88	29.34	18.81
MAX517BCPA+-ND	Single 8-Bit R/R DAC with 2-Wire Serial Interface*	8-Dip	6.15	4.64	2.98
MAX517BCSA-ND	Single 8-Bit R/R DAC with 2-Wire Serial Interface	8-SOIC	6.15	4.64	2.98
MAX517BCSA+-ND	Single 8-Bit R/R DAC with 2-Wire Serial Interface*	8-SOIC	6.15	4.64	2.98
MAX518BCPA-ND	Dual 8-Bit R/R DAC with 2-Wire Serial Interface	8-Dip	6.60	4.98	3.20
MAX518BCSA-ND	Dual 8-Bit R/R DAC with 2-Wire Serial Interface	8-SOIC	6.60	4.98	3.20
MAX518BCSA+-ND	Dual 8-Bit R/R DAC with 2-Wire Serial Interface*	8-SOIC	6.60	4.98	3.20
MAX520BCPE-ND	Quad 8-Bit DAC with 2-Wire Interface Serial Unbuffered Output	16-Dip	9.28	7.00	4.50
MAX520BCWE-ND	Quad 8-Bit DAC w/2-Wire Interface Serial Unbuffered Output	16-SOIC	9.28	7.00	4.50
MAX521ACAG-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface	24-SSOP	19.32	14.58	8.58
MAX521ACAG+-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface*	24-SSOP	19.32	14.58	8.58
MAX521AEAG-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface	24-SSOP	25.12	18.96	11.16
MAX521BCPP-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface	20-Dip	14.31	10.80	6.93
MAX521BCPP+-ND	Octal 8-Bit R/R DAC with 2-Wire Serial Interface*	20-Dip	14.31	10.80	6.93
MAX522CPA-ND	Dual 8-Bit Voltage Out Serial D/A Converter	8-Dip	6.60	4.98	3.20
MAX522CSA-ND	Dual 8-Bit Voltage Out Serial D/A Converter	8-SOIC	6.60	4.98	3.20
MAX522CSA+-ND	Dual 8-Bit Voltage Out Serial D/A Converter*	8-SOIC	6.60	4.98	3.20
MAX525ACAP-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter	20-SSOP	47.70	36.00	21.18
MAX525ACAP+-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter*	20-SSOP	47.70	36.00	21.18
MAX525BCAP-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter	20-SSOP	36.68	27.68	17.75
MAX525BCAP+-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter*	20-SSOP	36.68	27.68	17.75
MAX525BCPP-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter	20-Dip	33.66	25.40	16.29
MAX525BCPP+-ND	5V Quad 12-Bit Voltage Out Serial D/A Converter* ***NEW!***	20-Dip	36.68	27.68	17.75
MAX526DCNG-ND	Quad 12-Bit Voltage Output D/A Converter, .3”	24-Dip	53.05	40.04	25.67
MAX526DCWG+-ND	Quad 12-Bit Voltage Output D/A Converter*	24-SOIC	53.05	40.04	25.67
MAX527DCNG-ND	Calibrated Quad 12-Bit Voltage Output D/A Converter, .3”	24-Dip	45.18	34.10	21.87
MAX527DCWG-ND	Calibrated Quad 12-Bit Voltage Output D/A Converter	24-SOIC	45.18	34.10	21.87
MAX527DCWG+-ND	Calibrated Quad 12-Bit Voltage Output D/A Converter*	24-SOIC	45.18	34.10	21.87
MAX528CPP+-ND	Octal 8-Bit Serial D/A Converter with Output Buffer*	20-Dip	18.42	13.90	8.92
MAX529CPP-ND	±5V Octal 8-Bit Serial D/A Converter with Output Buffer	20-Dip	15.42	11.64	7.76
MAX529CWG+-ND	±5V Octal 8-Bit Serial D/A Converter with Output Buffer*	24-SOIC	15.42	11.64	7.76
MAX530BCNG-ND	5V Low Power Voltage Out 12-Bit D/A Converter	24-Dip	15.53	11.72	7.53
MAX530BCWG-ND	5V Low Power Voltage Out 12-Bit D/A Converter	24-SOIC	15.53	11.72	7.53
MAX530BCWG+-ND	5V Low Power Voltage Out 12-Bit D/A Converter*	24-SOIC	15.53	11.72	7.53
MAX531BCPD-ND	5V Voltage Out 12-Bit Serial D/A Converter	14-Dip	15.53	11.72	7.53
MAX531BCPD+-ND	5V Voltage Out 12-Bit Serial D/A Converter* ***NEW!***	14-Dip	15.53	11.72	7.53
MAX531BCSD+-ND	5V Voltage Out 12-Bit Serial D/A Converter*	14-SOIC	15.53	11.72	7.53
MAX532BCPE+-ND	Dual, Serial In, Voltage Out, 12-Bit Multiplying DAC*	16-Dip	24.12	18.20	11.68
MAX532BCWE-ND	Dual, Serial In, Voltage Out, 12-Bit Multiplying DAC	16-SOIC	24.12	18.20	11.68
MAX532BCWE+-ND	Dual, Serial In, Voltage Out, 12-Bit Multiplying DAC*	16-SOIC	24.12	18.20	11.68
MAX533ACEE+-ND	2.7V Low Power Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	11.18	8.44	6.70
MAX533BCEE-ND	2.7V Low Power Quad Serial Voltage Out 8-Bit DAC	16-QSOP	7.90	5.96	3.83
MAX533BCEE+-ND	2.7V Low Power Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	8.61	6.50	4.17
MAX533BCPE-ND	2.7V Low Power Quad Serial Voltage Out 8-Bit DAC	16-Dip	8.61	6.50	4.17
MAX534ACEE-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC	16-QSOP	11.18	8.44	4.97
MAX534BCEE-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC	16-QSOP	8.61	6.50	4.17
MAX534BCEE+-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC*	16-QSOP	8.61	6.50	4.17
MAX534BCPE-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC	16-Dip	8.61	6.50	4.17
MAX534BCPE+-ND	5V Low Power Quad Serial Voltage Out 8-Bit DAC*	16-Dip	8.61	6.50	4.17
MAX535BCPA-ND	5V 13-Bit Voltage Out Serial D/A Converter	8-Dip	15.18	11.46	7.35
MAX535BCUA-ND	5V 13-Bit Voltage Out Serial D/A Converter	8-µMAX	15.18	11.46	7.35
MAX535BCUA+-ND	5V 13-Bit Voltage Out Serial D/A Converter*	8-µMAX	15.18	11.46	7.35
MAX536BCPE-ND	Quad 12-Bit Voltage Out Serial D/A Converter	16-Dip	48.97	36.96	23.70
MAX536BCWE+-ND	Quad 12-Bit Voltage Out Serial D/A Converter*	16-SOIC	48.97	36.96	23.70
MAX537ACWE+-ND	Calibrated, Quad, 12-Bit Voltage Output DAC with Serial Interface*	16-SOIC	68.56	51.74	41.07
MAX538BCPA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-Dip	13.86	10.46	6.71
MAX538BCPA+-ND	Low Power 5V 12-Bit Serial D/A Converter* ***NEW!***	8-Dip	13.86	10.46	6.71
MAX538BCSA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-SOIC	13.86	10.46	6.71
MAX538BCSA+-ND	Low Power 5V 12-Bit Serial D/A Converter*	8-SOIC	13.86	10.46	6.71
MAX539BCPA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-Dip	13.86	10.46	6.71
MAX539BCPA+-ND	Low Power 5V 12-Bit Serial D/A Converter*	8-Dip	13.86	10.46	6.71
MAX539BCSA-ND	Low Power 5V 12-Bit Serial D/A Converter	8-SOIC	13.86	10.46	6.71
MAX539BCSA+-ND	Low Power 5V 12-Bit Serial D/A Converter*	8-SOIC	13.86	10.46	6.71
MAX541CCPA-ND	5V, 16-Bit Serial Voltage Out D/A Converter	8-Dip	28.01	21.14	28.01
MAX541CCSA+-ND	5V, 16-Bit Serial Voltage Out D/A Converter*	8-SOIC	25.71	19.40	12.44
MAX543BCPA-ND	CMOS 12-Bit Serial Multiplying D/A Converter	8-Dip	20.88	15.76	10.11
MAX543BCPA+-ND	CMOS 12-Bit Serial Multiplying D/A Converter*	8-Dip	20.88	15.76	10.11
MAX543BCSA-ND	CMOS 12-Bit Serial Multiplying D/A Converter	8-SOIC	16.72	12.62	8.10
MAX543BCSA+-ND	CMOS 12-Bit Serial Multiplying D/A Converter*	8-SOIC	16.72	12.62	8.10
MAX544BCSA-ND	5V 14-Bit Serial Voltage Out D/A Converter	8-SOIC	22.23	16.78	10.77

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX544BCSA+-ND	5V 14-Bit Serial Voltage Out D/A Converter* ***NEW!***	8-SOIC	22.23	16.78	10.77
MAX547BCQH-ND	Octal 13-Bit Voltage Out DAC/Parallel Interface	44-PLCC	84.54	63.80	40.90
MAX547BCQH+D-ND	Octal 13-Bit Voltage Out DAC/Parallel Interface* ***NEW!***	44-PLCC	84.54	63.80	40.90
MAX548ACPA-ND	2.5V-5.5V Dual 8-Bit Voltage Out D/A Converter	8-Dip	5.06	3.82	2.45
MAX548ACUA-ND	2.5V-5.5V Dual 8-Bit Voltage Out D/A Converter	8-µMAX	5.33	4.02	2.57
MAX548ACUA+-ND	2.5V-5.5V Dual 8-Bit Voltage Out D/A Converter*	8-µMAX	5.33	4.02	2.57
MAX549ACPA-ND	2.5V-5.5V Dual 8-Bit Voltage Out D/A Converter	8-Dip	4.64	3.50	2.06
MAX549ACPA+-ND	2.5V-5.5V Dual 8-Bit Voltage Out D/A Converter*	8-Dip	5.06	3.82	2.25
MAX560CAI+-ND	+3.3V Transceiver with 2 EIA/TIA-562 Receivers Active in Shutdown*	28-SSOP	8.67	6.54	3.85
MAX560CWI-ND	+3.3V Transceiver with 2 EIA/TIA-562 Receivers Active in Shutdown	28-SOIC	8.24	6.22	3.99
MAX562CAI-ND	2.7V-5.25V, Serial Interface	28-SSOP	7.82	5.90	3.47
MAX562CAI+-ND	2.7V-5.25V, Serial Interface*	28-SSOP	7.82	5.90	3.47
MAX563CWN-ND	3.3V, EIA/TIA-562 Dual Transceiver	18-SOIC	5.51	4.16	2.45
MAX563CWN+-ND	3.3V, EIA/TIA-562 Dual Transceiver*	18-SOIC	5.51	4.16	2.45
MAX603CPA-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator	8-Dip	4.35	3.28	1.92
MAX603CSA-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator	8-SOIC	4.77	3.60	2.12
MAX603CSA+-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator*	8-SOIC	4.77	3.60	2.12
MAX603ESA-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator	8-SOIC	6.07	4.58	2.69
MAX603ESA+-ND	5V or Adj., LDO, Low IQ, 500mA Linear Regulator*	8-SOIC	6.07	4.58	2.69
MAX604CPA-ND	Adjustable Low Dropout Regulator	8-Dip	4.35	3.28	1.92
MAX604CSA-ND	Adjustable Low Dropout Regulator	8-SOIC	4.77	3.60	2.12
MAX604CSA+-ND	Adjustable Low Dropout Regulator*	8-SOIC	4.77	3.60	2.12
MAX604ESA-ND	Adjustable Low Dropout Regulator	8-SOIC	6.07	4.58	2.69
MAX604ESA+-ND	Adjustable Low Dropout Regulator*	8-SOIC	6.07	4.58	2.69
MAX619CSA-ND	Regulated 5V Charge-Pump DC/DC Converter	8-SOIC	4.45	3.36	1.97
MAX619CSA+-ND	Regulated 5V Charge-Pump DC/DC Converter* ***NEW!***	8-SOIC	4.45	3.36	1.97
MAX619ESA-ND	Regulated 5V Charge-Pump DC/DC Converter	8-SOIC	6.02	4.54	2.66
MAX619ESA+-ND	Regulated 5V Charge-Pump DC/DC Converter*	8-SOIC	6.02	4.54	2.66
MAX627CSA-ND	Dual Non-Inverting Power MOSFET Driver	8-SOIC	3.87	2.92	1.95
MAX627CSA+-ND	Dual Non-Inverting Power MOSFET Driver*	8-SOIC	3.87	2.92	1.95
MAX629ESA-ND	High Voltage, Boost or Inverting DC/DC Converter	8-SOIC	7.37	5.56	3.26
MAX629ESA+-ND	High Voltage, Boost or Inverting DC/DC Converter*	8-SOIC	7.37	5.56	3.26
MAX630CSA-ND	CMOS Step Up Switching Regulator	8-SOIC	7.95	6.00	3.84
MAX630CSA+-ND	CMOS Step Up Switching Regulator*	8-SOIC	7.95	6.00	3.84
MAX631ACPA-ND	+5V/Adjustable Output CMOS Step-Up Switching Regulator	8-Dip	6.86	5.18	3.32
MAX631ACSA-ND	+5V/Adjustable Output CMOS Step-Up Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX631ACSA+-ND	+5V/Adj. Output CMOS Step-Up Switching Regulator* ***NEW!***	8-SOIC	7.10	5.36	3.44
MAX632ACPA-ND	+12V/Adjustable Output CMOS Step-Up Switching Regulator	8-Dip	6.86	5.18	3.32
MAX632ACSA-ND	+12V/Adjustable Output CMOS Step-Up Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX634CPA-ND	CMOS Micropower Inverting Switching Regulator	8-Dip	6.52	4.92	3.16
MAX634CPA+-ND	CMOS Micropower Inverting Switching Regulator*	8-Dip	6.52	4.92	3.16
MAX634CSA-ND	CMOS Micropower Inverting Switching Regulator	8-SOIC	7.18	5.42	3.48
MAX634CSA+-ND	CMOS Micropower Inverting Switching Regulator* ***NEW!***	8-SOIC	7.18	5.42	3.48
MAX635ACPA+-ND	-5V/Adj. Output CMOS Inverting Switching Regulator*	8-Dip	6.86	5.18	3.32
MAX635ACSA-ND	-5V/Adj. Output CMOS Inverting Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX635ACSA+-ND	-5V/Adj. Output CMOS Inverting Switching Regulator*	8-SOIC	7.10	5.36	3.44
MAX636ACPA-ND	-12V/Adj. Output CMOS Inverting Switching Regulator	8-Dip	6.86	5.18	3.32
MAX636ACSA-ND	-12V/Adj. Output CMOS Inverting Switching Regulator	8-SOIC	7.10	5.36	3.44
MAX636ACSA+-ND	-12V/Adj. Output CMOS Inverting Switching Regulator*	8-SOIC	7.10	5.36	3.44
MAX637ACPA-ND	-15V/Adj. Output CMOS Inverting Switching Regulator	8-Dip	6.86	5.18	3.32
MAX637ACSA+-ND	-15V/Adj. Output CMOS Inverting Switching Regulator*	8-SOIC	7.10	5.36	3.44
MAX638ACPA-ND	5V Adj. Output CMOS Step Down Switching Regulator	8-Dip	6.86	5.18	3.32
MAX638ACSA+-ND	5V Adj. Output CMOS Step Down Switching Regulator*	8-SOIC	7.10	5.36	3.44
MAX641ACSA-ND	Fixed Output 10W CMOS Step-Up Switching Regulator	8-SOIC	7.10	5.36	3.15
MAX641ACSA+-ND	Fixed Output 10W CMOS Step-Up Switching Reg.* ***NEW!***	8-SOIC	7.10	5.36	3.15
MAX660CPA-ND	100mA CMOS Monolithic Voltage Converter	8-Dip	6.94	5.24	3.50
MAX660CPA+-ND	100mA CMOS Monolithic Voltage Converter*	8-Dip	6.94	5.24	3.50
MAX660CSA-ND	100mA CMOS Monolithic Voltage Converter	8-SOIC	7.29	5.50	3.68
MAX660CSA+-ND	100mA CMOS Monolithic Voltage Converter*	8-SOIC	7.29	5.50	3.68
MAX662ACPA-ND	12V Supply for Flash Memory	8-Dip	4.80	3.62	2.32
MAX662ACPA+-ND	12V Supply for Flash Memory* ***NEW!***	8-Dip	4.80	3.62	2.32
MAX662ACSA-ND	12V Supply for Flash Memory	8-SOIC	4.90	3.70	2.37
MAX662ACSA+-ND	12V Supply for Flash Memory*	8-SOIC	4.90	3.70	2.37
MAX663CPA-ND	CMOS +5V/Adj. Micropower Positive Voltage Reg.	8-Dip	4.21	3.18	2.03
MAX663CSA-ND	CMOS +5V/Adj. Micropower Positive Voltage Reg.	8-SOIC	4.64	3.50	2.24
MAX663CSA+-ND	CMOS +5V/Adj. Micropower Positive Voltage Reg.*	8-SOIC	4.64	3.50	2.24
MAX664CSA-ND	Dual Mode™ 5V/Prog. Micropower Voltage Reg.	8-SOIC	5.64	4.26	2.73
MAX664CSA+-ND	Dual Mode™ 5V/Prog. Micropower Voltage Reg.*	8-SOIC	5.64	4.26	2.73
MAX665CPA-ND	CMOS +8V/Switched-Capacitor Voltage Converter	8-Dip	9.94	7.50	4.81
MAX665CPA+-ND	CMOS +8V/Switched-Capacitor Voltage Converter* ***NEW!***	8-Dip	9.94	7.50	4.81
MAX666CPA-ND	CMOS +5V/Adj. Volt. Reg. with Low Battery Detector	8-Dip	4.88	3.68	2.36
MAX666CSA-ND	CMOS +5V/Adj. Volt. Reg. with Low Battery Detector	8-SOIC	5.35	4.04	2.59
MAX666CSA+-ND	CMOS +5V/Adj. Volt. Reg. with Low Battery Detector*	8-SOIC	5.35	4.04	2.59
MAX666ESA+-ND	CMOS +5V/Adj. Volt. Reg. with Low Battery Detector*	8-SOIC	8.32	6.28	4.02
MAX667CPA-ND	+5V/Programmable Low Dropout Voltage Regulator	8-Dip	5.49	4.14	2.76
MAX667CPA+-ND	+5V/Programmable Low Dropout Voltage Regulator*	8-Dip	5.49	4.14	2.76
MAX667CSA-ND	+5V/Programmable Low Dropout Voltage Regulator	8-SOIC	5.72	4.32	2.88
MAX667CSA+-ND	+5V/Programmable Low Dropout Voltage Regulator*	8-SOIC	5.72	4.32	2.88
MAX667EPA-ND	+5V/Programmable Low Dropout Voltage Regulator	8-Dip	7.13	5.38	3.59
MAX667EPA+-ND	+5V/Programmable Low Dropout Voltage Regulator* ***NEW!***	8-Dip	7.13	5.38	3.59
MAX667ESA+-ND	+5V/Programmable Low Dropout Voltage Regulator*	8-SOIC	7.39	5.58	3.72
MAX668EUB-ND	1.8V to 28V Input, PWM Step-Up Controller	10-µMAX	5.43	4.10	2.46
MAX668EUB+-ND	1.8V to 28V Input, PWM Step-Up Controller*	10-µMAX	5.43	4.10	2.46
MAX680CPA-ND	+5V to ±10V Voltage Converter	8-Dip	4.48	3.38	2.17
MAX680CPA+-ND	+5V to ±10V Voltage Converter* ***NEW!***	8-Dip	4.48	3.38	2.17
MAX680CSA-ND	+5V to ±10V Voltage Converter	8-SOIC	4.90	3.70	2.38
MAX680CSA+-ND	+5V to ±10V Voltage Converter*	8-SOIC	4.90	3.70	2.38
MAX687CSA-ND	3.3V High Accuracy Low Dropout Regulator with Auto Shutdown	8-SOIC	4.35	3.28	2.10
MAX688CSA-ND	3.3V High Accuracy Low Dropout Regulator	8-SOIC	4.35	3.28	2.10
MAX690ACPA-ND	Microprocessor WDT Reset Circuit	8-Dip	6.94	5.24	3.36
MAX690ACPA+-ND	Microprocessor WDT Reset Circuit*	8-Dip	6.94	5.24	3.36
MAX690ACSA-ND	Microprocessor WDT Reset Circuit	8-SOIC	7.29	5.50	3.53
MAX690ACSA+-ND	Microprocessor WDT Reset Circuit*	8-SOIC	7.29	5.50	3.53
MAX690AESA+-ND	Microprocessor WDT Reset Circuit*	8-SOIC	10.20	7.70	5.78
MAX690CPA-ND	Microprocessor WDT Reset Circuit	8-Dip	7.23	5.46	3.50
MAX690CPA+-ND	Microprocessor WDT Reset Circuit*	8-Dip	7.23	5.46	3.50
MAX690EPA+-ND	Microprocessor WDT Reset Circuit*	8-Dip	10.49	7.92	5.08

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX691ACPE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS	16-Dip	7.84	5.92	3.80
MAX691ACPE+-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS*	16-Dip	7.84	5.92	3.80
MAX691ACWE+-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS*	16-SOIC	8.24	6.22	4.79
MAX691CPE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS	16-Dip	7.84	5.92	3.80
MAX691CPE+-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS*	16-Dip	7.84	5.92	3.80
MAX691CWE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS	16-SOIC	8.64	6.52	4.18
MAX691CWE+-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS*	16-SOIC	8.64	6.52	4.18
MAX691EWE-ND	Microprocessor WDT Battery Switchover/Reset Gen., 200nS	16-SOIC	12.53	9.46	6.06
MAX692ACPA-ND	Microprocessor Supervisory Circuit	8-Dip	6.94	5.24	3.36
MAX692ACPA+-ND	Microprocessor Supervisory Circuit* ***NEW!***	8-Dip	6.94	5.24	3.36
MAX692ACSA-ND	Microprocessor Supervisory Circuit	8-SOIC	7.29	5.50	3.53
MAX692CPA-ND	Microprocessor Supervisory Circuit	8-Dip	7.23	5.46	3.50
MAX692CPA+-ND	Microprocessor Supervisory Circuit*	8-Dip	7.23	5.46	3.50
MAX693ACPE-ND	Microprocessor Supervisory Circuit	16-Dip	7.84	5.92	3.80
MAX693ACPE+-ND	Microprocessor Supervisory Circuit*	16-Dip	7.84	5.92	3.80
MAX693CPE-ND	Microprocessor Supervisory Circuit	16-Dip	7.84	5.92	3.80
MAX693CPE+-ND	Microprocessor Supervisory Circuit*	16-Dip	7.84	5.92	3.80
MAX693CWE-ND	Microprocessor Supervisory Circuit	16-SOIC	8.64	6.52	4.18
MAX694CPA-ND	Microprocessor WDT/Battery Switchover/ Reset Gen., Min. Reset Pulse Width, 140ms	8-Dip	7.23	5.46	3.50
MAX694CPA+-ND	Microprocessor WDT/Battery Switchover/ Reset Gen., Min. Reset Pulse Width, 140ms*	8-Dip	7.23	5.46	3.50
MAX695CPE-ND	Microprocessor WDT/Battery Switchover/Reset Gen	16-Dip	7.84	5.92	3.80
MAX695CPE+-ND	Microprocessor WDT/Battery Switchover/Reset Gen.* ***NEW!***	16-Dip	7.84	5.92	3.80
MAX695CWE+-ND	Microprocessor WDT/Battery Switchover/Reset Gen.*	16-SOIC	8.64	6.52	4.18
MAX696CPE-ND	Microprocessor Supervise Circuit with Battery Switchover	16-Dip	7.84	5.92	3.78
MAX699CPA-ND	Low Cost Power-On Reset and WDT Controller	8-Dip	4.93	3.72	2.38
MAX699CPA+-ND	Low Cost Power-On Reset and WDT Controller* ***NEW!***	8-Dip	4.93	3.72	2.38
MAX699CWE-ND	Low Cost Power-On Reset and WDT Controller	16-SOIC	5.33	4.02	2.58
MAX700CSA-ND	Adj.-Threshold Power-Supply Monitor with Reset	8-SOIC	5.19	3.92	2.62
MAX700CSA+-ND	Adj.-Threshold Power-Supply Monitor with Reset*	8-SOIC	5.19	3.92	2.62
MAX701CPA-ND	Power Supply Monitor with Reset	8-Dip	4.72	3.56	2.37
MAX701CSA+-ND	Power Supply Monitor with Reset*	8-SOIC	4.72	3.56	2.37
MAX701EPA-ND	Power Supply Monitor with Reset	8-Dip	6.12	4.62	2.72
MAX701ESA-ND	Power Supply Monitor with Reset	8-SOIC	6.12	4.62	3.08
MAX701ESA+-ND	Power Supply Monitor with Reset*	8-SOIC	6.12	4.62	3.08
MAX703CPA-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset	8-Dip	6.10	4.60	2.95
MAX703CPA+-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset*	8-Dip	6.10	4.60	2.95
MAX703CSA-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset	8-SOIC	6.10	4.60	2.95
MAX703CSA+-ND	Low Cost, Microprocessor Supervisory Circuit with Battery Backup, 4.65V Reset*	8-SOIC	6.10	4.60	2.95
MAX704CPA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset	8-Dip	6.10	4.60	2.95
MAX704CPA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset*	8-Dip	6.10	4.60	2.95
MAX704CSA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset	8-SOIC	6.10	4.60	2.95
MAX704CSA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset*	8-SOIC	6.10	4.60	2.95
MAX704ESA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, 4.4V Reset*	8-SOIC	7.92	6.53	5.18
MAX705CPA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset	8-Dip	5.46	4.12	2.64
MAX705CPA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset*	8-Dip	5.46	4.12	2.64
MAX705CSA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset	8-SOIC	5.46	4.12	2.64
MAX705CSA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset*	8-SOIC	5.46	4.12	2.64
MAX705ESA-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset	8-SOIC	7.10	5.36	3.43
MAX705ESA+-ND	Low Cost, µP Supervisory Circuit with Battery Backup, WDT Output, 4.65V Reset*	8-SOIC	7.10	5.36	3.43
MAX706CPA-ND	Microprocessor Supervisory Circuit	8-Dip	5.46	4.12	2.64
MAX706CPA+-ND	Microprocessor Supervisory Circuit*	8-Dip	5.46	4.12	2.64
MAX706CSA-ND	Microprocessor Supervisory Circuit	8-SOIC	5.46	4.12	2.64
MAX706CSA+-ND	Microprocessor Supervisory Circuit*	8-SOIC	5.46	4.12	2.64
MAX706SCPA-ND	Microprocessor Supervisory Circuit	8-Dip	5.91	4.46	2.86
MAX706SCSA+-ND	Microprocessor Supervisory Circuit*	8-SOIC	5.91	4.46	2.86
MAX706PCSA-ND	Microprocessor Supervisory Circuit	8-SOIC	5.91	4.46	2.86
MAX707CPA-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.65V Reset	8-Dip	4.90	3.70	2.37
MAX707CPA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.65V Reset*	8-Dip	4.90	3.70	2.37
MAX707CSA-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.65V Reset	8-SOIC	4.90	3.70	2.37
MAX707CSA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.65V Reset*	8-SOIC	4.90	3.70	2.37
MAX708CPA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.4V Reset*	8-Dip	4.90	3.70	2.37
MAX708CSA-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.4V Reset	8-SOIC	4.90	3.70	2.37
MAX708CSA+-ND	Low-Cost, Microprocessor Supervisory Circuit, Active-High Reset, 4.4V Reset*	8-SOIC	4.90	3.70	2.37
MAX709RCSA-ND	Power Supply Monitor, 2.63V Reset	8-SOIC	2.86	2.16	1.39
MAX709MCPA-ND	Power Supply Monitor, 4.40V Reset	8-Dip	2.65	2.00	1.28
MAX709LCPA-ND	Power Supply Monitor, 4.65V Reset	8-Dip	2.65	2.00	1.28
MAX709LCPA+-ND	Power Supply Monitor, 4.65V Reset* ***NEW!***	8-Dip	2.65	2.00	1.28
MAX709LCSA-ND	Power Supply Monitor, 4.65V Reset	8-SOIC	2.86	2.16	1.39
MAX709LCSA+-ND	Power Supply Monitor, 4.65V Reset*	8-SOIC	2.86	2.16	1.39
MAX709TCPA-ND	Power Supply Monitor, 3.08V Reset	8-Dip	2.65	2.00	1.28
MAX710ESE+-ND	3.3V or 5V Output Step Up/Down DC/DC Converter*	16-SOIC	7.61	5.74	3.38

* ***RoHS Compliant***

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★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX712CPE-ND	Battery Fast Charge Controller for NIMH Battery	16-Dip	7.71	5.82	3.73
MAX712CSE-ND	Battery Fast Charge Controller for NIMH Battery	16-SOIC	8.08	6.10	3.92
MAX712CSE+-ND	Battery Fast Charge Controller for NIMH Battery*	16-SOIC	8.08	6.10	3.92
MAX713CPE-ND	3-Out Battery Fast Charge Controller for NiCad/NIMH Battery	16-Dip	7.71	5.82	3.73
MAX713CSE-ND	3-Out Battery Fast Charge Controller for NiCad/NIMH Battery	16-SOIC	8.08	6.10	3.92
MAX713CSE+-ND	3-Out Battery Fast Charge Controller for NiCad/NIMH Battery*	16-SOIC	8.08	6.10	3.92
MAX722CSE-ND	+3.3V LCD Power Supply Regulator	16-SOIC	11.55	8.72	5.60
MAX730ACSA-ND	5V, Step Down, Current Mode PWM DC/DC Converter	8-SOIC	5.57	4.20	2.47
MAX732CPA-ND	+12V Step Up Current Mode PWM Reg. for Flash Memory	8-Dip	6.52	4.92	3.16
MAX732CWE+-ND	+12V Step-Up Current Mode PWM Reg. for Flash Memory*	16-SOIC	6.84	5.16	3.31
MAX734CPA-ND	+12V, 120mA Supply for Flash Memory	8-Dip	5.01	3.78	2.42
MAX734CSA-ND	+12V, 120mA Supply for Flash Memory	8-SOIC	5.54	4.18	2.68
MAX734CSA+-ND	+12V, 120mA Supply for Flash Memory*	8-SOIC	5.54	4.18	2.68
MAX738ACWE-ND	5V, Step-Down, PWM, DC/DC Converter	16-SOIC	6.70	5.06	2.98
MAX738ACWE+-ND	5V, Step-Down, PWM, DC/DC Converter* ***NEW!***	16-SOIC	6.70	5.06	2.98
MAX749CPA-ND	Digitally Adjustable LCD Bias Supply	8-Dip	6.49	4.90	3.14
MAX749CPA+-ND	Digitally Adjustable LCD Bias Supply*	8-Dip	6.49	4.90	3.14
MAX749CSA-ND	Digitally Adjustable LCD Bias Supply	8-SOIC	6.76	5.10	3.27
MAX749CSA+-ND	Digitally Adjustable LCD Bias Supply*	8-SOIC	6.76	5.10	3.27
MAX750ACSA-ND	Adjustable Step-Down Current Mode PWM Regulator	8-SOIC	5.57	4.20	2.69
MAX751CPA-ND	+5V Step Up Current Mode PWM DC/DC Converter	8-Dip	5.51	4.16	2.67
MAX752CPA-ND	Adjustable Step-Up Current Mode PWM Regulator	8-Dip	7.37	5.56	3.57
MAX755CPA-ND	Adj., Neg. Output, Inverting, Current Mode PWM Regulator	8-Dip	4.85	3.66	2.35
MAX756CPA-ND	High-Efficiency Step-Up DC/DC Converter	8-Dip	4.80	3.62	2.33
MAX756CSA-ND	High-Efficiency Step-Up DC/DC Converter	8-SOIC	5.38	4.06	2.60
MAX756CSA+-ND	High-Efficiency Step-Up DC/DC Converter*	8-SOIC	5.38	4.06	2.60
MAX758ACPA-ND	Adjustable Step-Down Current Mode PWM Regulator	8-Dip	6.41	4.84	3.10
MAX759CPD-ND	Adjustable Inverting Current Mode PWM	14-Dip	6.78	5.12	3.27
MAX761CPA-ND	12V Adj. High-Efficiency Step-Up DC/DC Converter	8-Dip	5.43	4.10	2.63
MAX761CSA-ND	12V Adj. High-Efficiency Step-Up DC/DC Converter	8-SOIC	5.99	4.52	2.90
MAX761CSA+-ND	12V Adj. High-Efficiency Step-Up DC/DC Converter*	8-SOIC	5.99	4.52	2.90
MAX761ESA-ND	12V Adj. High-Efficiency Step-Up DC/DC Converter	8-SOIC	8.14	6.14	3.69
MAX761ESA+-ND	12V Adj. High-Efficiency Step-Up DC/DC Converter*	8-SOIC	8.14	6.14	3.69
MAX762CSA+-ND	15V, High-Efficiency, Low IQ, Step-Up DC/DC Converter*	8-SOIC	5.99	4.52	3.45
MAX764CSA-ND	High-Efficiency, Low IQ, DC/DC Inverter	8-SOIC	6.10	4.60	2.70
MAX764CSA+-ND	High-Efficiency, Low IQ, DC/DC Inverter*	8-SOIC	6.10	4.60	2.70
MAX765CPA-ND	–12V or Adj., High-Efficiency, Low IQ DC/DC Inverter	8-Dip	5.99	4.52	2.90
MAX765ESA+-ND	–12V or Adj., High-Efficiency, Low IQ DC/DC Inverter*	8-SOIC	8.80	6.64	3.91
MAX766CPA-ND	–15V DC/DC Inverter	8-Dip	5.99	4.52	2.90
MAX766CPA+-ND	–15V DC/DC Inverter* ***NEW!***	8-Dip	5.99	4.52	2.90
MAX770CSA+-ND	5V or Adj., High-Efficiency, Low IQ, Step-Up DC/DC Converter*	8-SOIC	4.85	3.66	2.59
MAX786CAI-ND	Dual Output Power Supply Controller	28-SSOP	11.05	8.34	4.92
MAX791CPE-ND	High Perform Microprocessor Supervisory Circuit	16-Dip	8.48	6.40	4.10
MAX791CPE+-ND	High Perform Microprocessor Supervisory Circuit*	16-Dip	8.48	6.40	4.10
MAX791CSE-ND	High Perform Microprocessor Supervisory Circuit	16-SOIC	8.90	6.72	4.31
MAX791CSE+-ND	High Perform Microprocessor Supervisory Circuit*	16-SOIC	8.90	6.72	4.31
MAX793RCSE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	16-SOIC	8.56	6.83	4.55
MAX793TCSE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	16-SOIC	8.56	6.46	3.79
MAX793TESE+-ND	3V/3.3V Adj., Microprocessor Supervisory Circuit*	16-SOIC	11.13	8.88	5.92
MAX797CSE+-ND	3.3V/5V or Adj., Step-Down Controller*	16-SOIC	9.41	7.10	4.56
MAX800LCPE-ND	µP Supervisory Circuit with 4.65V Reset, Chip Enable, WD	16-Dip	9.28	7.00	4.50
MAX809LEUR-TCT-ND	4.63V, Microprocessor Reset Circuit	SOT-23	2.12	1.60	1.40
MAX809LEUR-TTR-ND	4.63V, Microprocessor Reset Circuit	SOT-23	3200.00/2,500		
MAX809LEUR+TCT-ND	4.63V, Microprocessor Reset Circuit*	SOT-23	2.12	1.60	1.40
MAX809LEUR+TTR-ND	4.63V, Microprocessor Reset Circuit*	SOT-23	3200.00/2,500		
MAX811LEUS-TCT-ND	4.63V, Voltage Monitor	SOT-143-4	2.15	1.62	1.42
MAX811LEUS-TTR-ND	4.63V, Voltage Monitor	SOT-143-4	3240.00/2,500		
MAX811LEUS+TCT-ND	4.63V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811LEUS+TTR-ND	4.63V, Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX811REUS-TCT-ND	2.63V, Voltage Monitor	SOT-143-4	2.15	1.62	1.42
MAX811REUS-TTR-ND	2.63V, Voltage Monitor	SOT-143-4	3240.00/2,500		
MAX811REUS+TCT-ND	2.63V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811REUS+TTR-ND	2.63V, Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX811SEUS+TCT-ND	2.93V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811SEUS+TTR-ND	2.93V, Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX811TEUS-TCT-ND	3.08V, Voltage Monitor	SOT-143-4	2.15	1.62	1.42
MAX811TEUS-TTR-ND	3.08V, Voltage Monitor	SOT-143-4	3240.00/2,500		
MAX811TEUS+TCT-ND	3.08V, Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX811TEUS+TTR-ND	3.08V, Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX812SEUS+TCT-ND	2.93V, Microprocessor Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX812SEUS+TTR-ND	2.93V, Microprocessor Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX813LCPA-ND	Low Cost Microprocessor Supervisor Circuit	8-Dip	3.47	2.62	1.79
MAX813LCPA+-ND	Low Cost Microprocessor Supervisor Circuit*	8-Dip	3.47	2.62	1.79
MAX813LCSA-ND	Low Cost Microprocessor Supervisor Circuit	8-SOIC	3.47	2.62	1.79
MAX813LCSA+-ND	Low Cost Microprocessor Supervisor Circuit*	8-SOIC	3.47	2.62	1.79
MAX823SEUK+TCT-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	2.86	2.16	1.89
MAX823SEUK+TTR-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	4320.00/2,500		
MAX824SEUK+TCT-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	2.86	2.16	1.89
MAX824SEUK+TTR-ND	2.93V, Microprocessor Supervisory Circuit*	SOT-23-5	4320.00/2,500		
MAX825LEUK-TCT-ND	4.63V, Microprocessor Supervisory Circuit	SOT-23-5	2.76	2.08	1.82
MAX825LEUK-TTR-ND	4.63V, Microprocessor Supervisory Circuit	SOT-23-5	4160.00/2,500		
MAX825LEUK+TCT-ND	4.63V, Microprocessor Supervisory Circuit*	SOT-23-5	2.76	2.08	1.82
MAX825LEUK+TTR-ND	4.63V, Microprocessor Supervisory Circuit*	SOT-23-5	4160.00/2,500		
MAX837EUS-TCT-ND	4-Pin Micropower Voltage Monitor	SOT-143-4	2.15	1.62	1.42
MAX837EUS-TTR-ND	4-Pin Micropower Voltage Monitor	SOT-143-4	3240.00/2,500		
MAX837EUS+TCT-ND	4-Pin Micropower Voltage Monitor*	SOT-143-4	2.15	1.62	1.42
MAX837EUS+TTR-ND	4-Pin Micropower Voltage Monitor*	SOT-143-4	3240.00/2,500		
MAX845ESA+-ND	Isolated Transformer Driver for PCMCIA Applications*	8-SOIC	3.98	3.00	2.13
MAX845EUA+-ND	Isolated Transformer Driver for PCMCIA Applications*	8-µMAX	4.19	3.16	2.24
MAX856CSA-ND	3.3V/5V or Adj. Output, Step-Up DC/DC Converter	8-SOIC	4.13	3.12	1.83
MAX856CSA+-ND	3.3V/5V or Adj. Output, Step-Up DC/DC Converter*	8-SOIC	4.13	3.12	1.83
MAX860ISA-ND	50mA, Freq. Selectable, Switched-Cap Volt. Converter	8-SOIC	3.74	2.82	1.66
MAX860ISA+-ND	50mA, Freq. Selectable, Switched-Cap Volt. Converter*	8-SOIC	3.74	2.82	1.66
MAX865EUA-ND	Compact, Dual-Output Charge Pump	8-µMAX	3.60	2.72	1.60
MAX865EUA+-ND	Compact, Dual-Output Charge Pump*	8-µMAX	3.60	2.72	1.60
MAX873ACSA-ND	2.5V, Low-Power, Low-Drift, Precision Voltage Reference	8-SOIC	13.86	10.46	6.15
MAX876BCPA-ND	Low Power, Low-Drift, +10V Precision Voltage Reference	8-Dip	7.39	5.58	3.58
MAX882CSA-ND	5V/3.3V Adjustable Low Dropout Linear Regulator	8-SOIC	4.11	3.10	1.83
MAX882CSA+-ND	5V/3.3V Adjustable Low Dropout Linear Regulator*	8-SOIC	4.11	3.10	4.11
MAX882ESA-ND	5V/3.3V Adjustable Low Dropout Linear Regulator	8-SOIC	5.22	3.94	2.53
MAX882ESA+-ND	5V/3.3V Adjustable Low Dropout Linear Regulator*	8-SOIC	5.22	3.94	2.53
MAX883CSA-ND	5V or Adj., LDO, Low IQ, 200mA Linear Regulator	8-SOIC	4.11	3.10	1.83
MAX883CSA+-ND	5V or Adj., LDO, Low IQ, 200mA Linear Regulator*	8-SOIC	4.11	3.10	4.11
MAX892LEUA+-ND	Current-Limited, High-Side P-Channel Switch with Thermal Shutdown*	8-µMAX	3.42	2.58	1.81
MAX901BCSE-ND	Quad High Speed Low Power, Voltage Comp	16-SOIC	12.40	9.36	6.00
MAX901BCSE+-ND	Quad High Speed Low Power, Voltage Comp*	16-SOIC	12.40	9.36	6.00
MAX902CSD-ND	Dual High Speed Low Power, Voltage Comp	14-SOIC	10.26	7.74	4.97
MAX902CSD+-ND	Dual High Speed Low Power, Voltage Comp*	14-SOIC	10.26	7.74	4.97
MAX907CPA+-ND	Dual High Speed Ultra Low Power, Single +5V, TTL Comp*	8-Dip	4.27	3.22	2.07
MAX907CSA-ND	Dual High Speed Ultra Low Power, Single +5V, TTL Comp	8-SOIC	4.27	3.22	2.07
MAX907CSA+-ND	Dual High Speed Ultra Low Power, Single +5V, TTL Comp*	8-SOIC	4.27	3.22	2.07
MAX908CPD-ND	Quad, High Speed, Ultra LP, Single +5V, TTL Comp	14-Dip	7.42	5.60	3.60
MAX908CPD+-ND	Quad, High Speed, Ultra LP, Single +5V, TTL Comp*	14-Dip	7.42	5.60	3.60
MAX913CPA-ND	Dual, Ultra-Fast, Low Power Precision TTL Comparator	8-Dip	6.39	4.82	2.83
MAX913CPA+-ND	Dual, Ultra-Fast, Low Power Precision TTL Comparator*	8-Dip	6.39	4.82	2.83
MAX913CSA+-ND	Dual, Ultra-Fast, Low Power Precision TTL Comparator*	8-SOIC	6.36	4.80	2.83
MAX913ESA+-ND	Dual, Ultra-Fast, Low Power Precision TTL Comparator*	8-SOIC	8.29	6.26	4.97
MAX921CSA-ND	Low Power Comparator with Reference	8-SOIC	3.98	3.00	1.92
MAX921CSA+-ND	Low Power Comparator with Reference*	8-SOIC	3.98	3.00	1.92
MAX921ESA-ND	Low Power Comparator with Reference	8-SOIC	4.61	3.48	2.23
MAX921ESA+-ND	Low Power Comparator with Reference*	8-SOIC	4.61	3.48	4.61
MAX922CSA-ND	Dual Ultra Low Power, Single Supply Comparator	8-SOIC	3.76	2.84	1.83
MAX923CSA-ND	Dual Ultra Low Power, Single Supply Comparator with 1% Precision with Reference	8-SOIC	4.88	3.68	2.37
MAX923CSA+-ND	Dual Ultra Low Power, Single Supply Comparator with 1% Precision with Reference*	8-SOIC	4.88	3.68	2.37
MAX924CSE-ND	Quad Ultra Low Power, Single Supply Comparator with 1% Precision with Reference	16-SOIC	5.64	4.26	2.74
MAX924CSE+-ND	Quad Ultra Low Power, Single Supply Comparator with 1% Precision with Reference*	16-SOIC	5.64	4.26	2.74
MAX931CPA-ND	Ultra Low Power Comparator	8-Dip	2.46	1.86	1.20
MAX931CPA+-ND	Ultra Low Power Comparator*	8-Dip	2.46	1.86	1.20
MAX932CSA-ND	Dual Ultra LP Single Supply Comparatpr with 2% Precision with Reference	8-SOIC	3.15	2.38	1.53
MAX932CSA+-ND	Dual Ultra LP Single Supply Comparatpr with 2% Precision with Reference*	8-SOIC	3.15	2.38	1.53
MAX934CSE-ND	Quad Ultra LP Single Supply Comparator with 2% Precision with Reference	16-SOIC	2.99	2.26	1.45
MAX934CSE+-ND	Quad Ultra LP Single Supply Comparator with 2% Precision with Reference*	16-SOIC	2.99	2.26	1.45
MAX941CSA-ND	Single, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator	8-SOIC	3.45	2.60	1.68
MAX941CSA+-ND	Single, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator*	8-SOIC	3.45	2.60	1.68
MAX941EUA+-ND	Single, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator*	8-µMAX	4.29	3.24	2.30
MAX942CSA-ND	Dual, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator	8-SOIC	3.71	2.80	1.80
MAX942CSA+-ND	Dual, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator*	8-SOIC	3.71	2.80	1.80
MAX942ESA+-ND	Dual, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator*	8-SOIC	4.61	3.48	2.46
MAX944CSD-ND	Quad, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator	14-SOIC	6.15	4.64	2.98
MAX944CSD+-ND	Quad, 3V/5V, Single Supply, 75nS, Rail-to-Rail Input Comparator*	14-SOIC	6.15	4.64	2.98
MAX961ESA-ND	+3V/+5V, Beyond-the-Rails Comparator	8-SOIC	6.63	5.00	2.94
MAX961ESA+-ND	+3V/+5V, Beyond-the-Rails Comparator*	8-SOIC	6.63	5.00	2.94
MAX964EEE-ND	Quad, Ultra HS, +3V/+5V, Beyond-the-Rails Comp.	16-QSOP	15.13	11.42	6.72
MAX964EEE+-ND	Quad, Ultra HS, +3V/+5V, Beyond-the-Rails Comp.*	16-QSOP	15.13	11.42	6.72
MAX969EEE+-ND	Quad, Micropower, Ultra Low Voltage, Rail-to-Rail, In/Out Comparator*	16-QSOP	5.09	3.84	2.70
MAX971CSA-ND	Single, Ultra LP, Open-Output Comparator with 1% Accuracy	8-SOIC	3.95	2.98	1.91
MAX971CSA+-ND	Single, Ultra LP, Open-Output Comparator with 1% Accuracy*	8-SOIC	3.95	2.98	1.91
MAX975ESA-ND	+3V/+5V Dual Speed Comparator with Auto Standby	8-SOIC	5.17	3.90	2.50
MAX975EUA-ND	+3V/+5V Dual Speed Comparator with Auto Standby	8-µMAX	5.17	3.90	2.50
MAX975EUA+-ND	+3V/+5V Dual Speed Comparator with Auto Standby*	8-µMAX	5.17	3.90	2.50
MAX987EUK-TCT-ND	HS, Micropower, Low Volt. R/R In/Out Comparator	SOT-23-5	2.52	1.90	1.67
MAX987EUK-TTR-ND	HS, Micropower, Low Volt. R/R In/Out Comparator	SOT-23-5	3800.00/2,500		
MAX987EUK+TCT-ND	HS, Micropower, Low Volt. R/R In/Out Comparator*	SOT-23-5	2.52	1.90	1.67
MAX987EUK+TTR-ND	HS, Micropower, Low Volt. R/R In/Out Comparator*	SOT-23-5	3800.00/2,500		
MAX998EUT+TCT-ND	Single Supply, High Speed, Low Power Comparator*	SOT-23-6	6.44	4.86	4.26
MAX998EUT+TTR-ND	Single Supply, High Speed, Low Power Comparator*	SOT-23-6	9720.00/2,500		
MAX999EUK+TCT-ND	Single, Ultra High Speed, +3V/+5V, Beyond-the-Rails Comparator*	SOT-23-5	7.47	5.64	4.94
MAX999EUK+TTR-ND	Single, Ultra High Speed, +3V/+5V, Beyond-the-Rails Comparator*	SOT-23-5	11280.00/2,500		
MAX1044CPA-ND	CMOS Switchcap Voltage Converter	8-Dip	2.68	2.02	1.35
MAX1044CPA+-ND	CMOS Switchcap Voltage Converter*	8-Dip	2.68	2.02	1.35
MAX1110CAP+-ND	2.7V, 8-Bit 8-Channel Serial ADC with Reference*	20-SSOP	5.91	4.46	2.87
MAX1110CPP-ND	2.7V, 8-Bit 8-Channel Serial ADC with Reference	20-Dip	5.91	4.46	2.87
MAX1202BCAP-ND	5V, 12-Bit 8-Channel Serial ADC with 3V Digital Interface	20-SSOP	20.11	15.18	9.74
MAX1202BCAP+-ND	5V, 12-Bit 8-Channel Serial ADC with 3V Digital Interface* ***NEW!***	20-SSOP	20.11	15.18	9.74
MAX1202BCPP-ND	5V, 12-Bit 8-Channel Serial ADC with 3V Digital Interface	20-Dip	20.11	15.18	9.74
MAX1232CPA+-ND	Microprocessor Monitor*	8-Dip	3.52	2.66	1.82
MAX1232CSA+-ND	Microprocessor Monitor*	8-SOIC	3.52	2.66	1.82
MAX1232EPA-ND	Microprocessor Monitor High Temperature	8-Dip	4.40	3.32	2.28
MAX1232EPA+-ND	Microprocessor Monitor High Temperature*	8-Dip	4.40	3.32	2.28
MAX1232ESA-ND	Microprocessor Monitor High Temperature	8-SOIC	4.58	3.46	2.37
MAX1232ESA+-ND	Microprocessor Monitor High Temperature*	8-SOIC	4.58	3.46	2.37
MAX1241ACSA-ND	2.7V Low Power 12-Bit Single Channel Serial ADC	8-SOIC	15.48	11.68	6.87
MAX1241AESA-ND	2.7V Low Power 12-Bit Single Channel Serial ADC	8-SOIC	18.55	14.00	8.24
MAX1241AESA+-ND	2.7V Low Power 12-Bit Single Channel Serial ADC* ***NEW!***	8-SOIC	18.55	14.00	8.24
MAX1241BCPA-ND	2.7V Low Power 12-Bit Single Channel Serial ADC	8-Dip	12.91	9.74	6.24
MAX1241BCPA+-ND	2.7V Low Power 12-Bit Single Channel Serial ADC* ***NEW!***	8-Dip	12.91	9.74	6.24

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX1241BCSA-ND	2.7V Low Power 12-Bit Single Channel Serial ADC	8-SOIC	12.91	9.74	6.24
MAX1241BCSA+-ND	2.7V Low Power 12-Bit Single Channel Serial ADC* ***NEW!***	8-SOIC	12.91	9.74	6.24
MAX1243BCPA-ND	2.7V Low Power 10-Bit Single Channel Serial ADC	8-Dip	7.76	5.86	3.76
MAX1243BCSA-ND	2.7V Low Power 10-Bit Single Channel Serial ADC	8-SOIC	7.76	5.86	3.76
MAX1243BCSA+-ND	2.7V Low Power 10-Bit Single Channel Serial ADC* ***NEW!***	8-SOIC	7.76	5.86	3.76
MAX1247ACEE+-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC*	16-QSOP	22.87	17.26	10.15
MAX1247BEEE-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC	16-QSOP	19.48	14.70	9.43
MAX1247BCEE+-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC*	16-QSOP	15.00	11.32	7.25
MAX1247BCPE-ND	2.7V Low Power 12-Bit, 4-Channel Serial ADC	16-Dip	15.00	11.32	7.25
MAX1249BCEE-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC	16-QSOP	11.21	8.46	5.43
MAX1249BCPE-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC	16-Dip	12.24	9.24	5.93
MAX1249BCPE+-ND	2.7V Low Power 10-Bit, 4-Channel Serial ADC* ***NEW!***	16-Dip	12.24	9.24	5.93
MAX1270ACNG-ND	Multirange, +5V, 8-Channel Serial 12-Bit ADC	24-Dip	33.81	25.52	15.01
MAX1270BCAI-ND	Multirange, +5V, 8-Channel Serial 12-Bit ADC	28-SSOP	27.06	20.42	12.26
MAX1270BCAI+-ND	Multirange, +5V, 8-Channel Serial 12-Bit ADC*	28-SSOP	27.06	20.42	12.26
MAX1285BCSA+-ND	300KSPS, Single Supply, Low Power, Serial 12-Bit ADC*	8-SOIC	16.48	12.44	9.87
MAX1406CPE-ND	230KBPS, 3 Transmitters/3 Receivers, ESD Protected	16-Dip	3.07	2.32	1.36
MAX1406CWE-ND	230KBPS, 3 Transmitters/3 Receivers, ESD Protected	16-SOIC	3.07	2.32	1.36
MAX1480ACPI-ND	Isolated RS-485/RS-422 Data Interface	28-Dip	26.18	19.76	11.32
MAX1480ACPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	26.18	19.76	11.32
MAX1480BCPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	25.02	18.88	11.80
MAX1480BEPI-ND	Isolated RS-485/RS-422 Data Interface	28-Dip	32.49	24.52	15.34
MAX1480BEPI+-ND	Isolated RS-485/RS-422 Data Interface*	28-Dip	32.49	24.52	15.34
MAX1482CSD-ND	Full Duplex, Slew Rate Ltd, Low Power RS-485 Transceiver	14-SOIC	2.81	2.12	1.36
MAX1482CSD+-ND	Full Duplex, Slew Rate Ltd, Low Power RS-485 Transceiver*	14-SOIC	2.81	2.12	1.36
MAX1487CPA-ND	2.5MBPS RS-485/RS-422 Transceiver	8-Dip	2.81	2.12	1.36
MAX1487CPA+-ND	2.5MBPS RS-485/RS-422 Transceiver*	8-Dip	2.81	2.12	1.36
MAX1487CSA+-ND	2.5MBPS RS-485/RS-422 Transceiver*	8-SOIC	2.81	2.12	1.36
MAX1487ECSA+-ND	2.5MBPS RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	3.42	2.58	1.99
MAX1488ECSD+-ND	RS-232 Quad Driver, ESD Protected*	14-SOIC	2.17	1.64	1.05
MAX1488EEPD-ND	RS-232 Quad Driver, ESD Protected	14-Dip	3.10	2.34	1.50
MAX1489ECSD+-ND	Quad, Low Power RS-232 Line Receiver, ESD Protected*	14-SOIC	2.17	1.64	1.26
MAX1490ACPG-ND	Complete, Isolated RS-485/RS-422 Data Interface	24-Dip	26.18	19.76	11.56
MAX1490ACPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface* ***NEW!***	24-Dip	26.18	19.76	11.56
MAX1490BCPG-ND	Complete, Isolated RS-485/RS-422 Data Interface	24-Dip	25.02	18.88	11.05
MAX1490BCPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface* ***NEW!***	24-Dip	25.02	18.88	11.05
MAX1490BEPG-ND	Complete, Isolated RS-485/RS-422 Data Interface	24-Dip	32.52	24.54	14.36
MAX1490BEPG+-ND	Complete, Isolated RS-485/RS-422 Data Interface* ***NEW!***	24-Dip	32.52	24.54	14.36
MAX1602EEE-ND	Single-Ch., CardBus and Power Switching Network	16-QSOP	5.78	4.36	2.57
MAX1615EUK+TCT-ND	High Voltage, Low Power Linear Regulator*	SOT-23-5	1.93	1.46	1.28
MAX1615EUK+TTR-ND	High Voltage, Low Power Linear Regulator*	SOT-23-5	2920.00/2,500		
MAX1617AMEE-ND	Remote/Local Temp. Sensor with SMBus Serial Interface	16-QSOP	10.12	7.64	4.49
MAX1617AMEE+-ND	Remote/Local Temp. Sensor with SMBus Serial Interface*	16-QSOP	10.12	7.64	4.49
MAX1617MEE-ND	Remote/Local Temp. Sensor with SMBus Serial Interface	16-QSOP	10.12	7.64	4.49
MAX1617MEE+-ND	Remote/Local Temp. Sensor with SMBus Serial Interface*	16-QSOP	10.12	7.64	4.49
MAX1623EAP-ND	Sync. Rectification, Low Voltage, Step-Down Regulator	20-SSOP	11.74	8.86	5.20
MAX1623EAP+-ND	Sync. Rectification, Low Voltage, Step-Down Regulator*	20-SSOP	11.74	8.86	5.20
MAX1626ESA-ND	3.3V/5V, High-Eff. Step-Down DC/DC Controller	8-SOIC	4.61	3.48	2.06
MAX1626ESA+-ND	3.3V/5V, High-Eff. Step-Down DC/DC Controller*	8-SOIC	4.61	3.48	2.06
MAX1627ESA+-ND	Adj., High-Eff. Step-Down DC/DC Controller*	8-SOIC	4.61	3.48	2.06
MAX1644EAE-ND	Sync. Rectification, Step-Down Regulator	16-SSOP	10.02	7.56	4.45
MAX1644EAE+-ND	Sync. Rectification, Step-Down Regulator*	16-SSOP	10.02	7.56	4.45
MAX1649CSA-ND	5V, High-Eff. LDO Step-Down DC/DC Controller	8-SOIC	4.96	3.74	2.19
MAX1649CSA+-ND	5V, High-Eff. LDO Step-Down DC/DC Controller*	8-SOIC	4.96	3.74	2.19
MAX1649ESA-ND	5V, High-Eff. LDO Step-Down DC/DC Controller	8-SOIC	6.23	4.70	2.77
MAX1649ESA+-ND	5V, High-Eff. LDO Step-Down DC/DC Controller*	8-SOIC	6.23	4.70	2.77
MAX1655EEE+-ND	High-Eff., PWM Step-Down DC/DC Controller*	16-QSOP	9.54	7.20	4.24
MAX1658ESA-ND	350mA, 16.5V Input, LDO Linear Regulator	8-SOIC	5.06	3.82	2.30
MAX1659ESA-ND	Low Dropout Linear Regulator	8-SOIC	5.06	3.82	2.24
MAX1660EEE-ND	Digitally Controlled Fuel-Gauge Interface	16-QSOP	7.23	5.46	3.21
MAX1668MEE+-ND	Multi Channel Remote/Local Temperature Sensor*	16-QSOP	9.86	7.44	4.37
MAX1672EEE+-ND	Step-Up/Down DC/DC Converter*	16-QSOP	6.84	5.16	3.03
MAX1673ESA-ND	Reg. 125mA Output, Charge-Pump DC/DC Inverter	8-SOIC	5.33	4.02	2.36
MAX1673ESA+-ND	Reg. 125mA Output, Charge-Pump DC/DC Inverter*	8-SOIC	5.33	4.02	2.36
MAX1674EUA-ND	Compact, High-Eff., Step-Up DC/DC Converter	8-µMAX	5.06	3.82	2.24
MAX1674EUA+-ND	Compact, High-Eff., Step-Up DC/DC Converter*	8-µMAX	5.06	3.82	2.24
MAX1675EUA-ND	Step-Up DC/DC Converter	8-µMAX	5.06	3.82	2.24
MAX1675EUA+-ND	Step-Up DC/DC Converter*	8-µMAX	5.06	3.82	2.24
MAX1676EUB-ND	Compact, High-Eff., Step-Up DC/DC Converter	10-µMAX	5.43	4.10	2.41
MAX1676EUB+-ND	Compact, High-Eff., Step-Up DC/DC Converter*	10-µMAX	5.43	4.10	2.41
MAX1681ESA+-ND	125mA, Switched-Capacitor Voltage Converter*	8-SOIC	5.33	4.02	2.36
MAX1684EEE+-ND	300KHz, 14V Input, 1A, PWM Step-Down Converter*	16-QSOP	8.56	6.46	3.79
MAX1685EEE+-ND	600KHz, 14V Input, 1A, PWM Step-Down Converter*	16-QSOP	8.56	6.46	3.79
MAX1692EUB-ND	Step-Down Regulator	10-µMAX	6.31	4.76	2.80
MAX1692EUB+-ND	Step-Down Regulator*	10-µMAX	6.31	4.76	2.80
MAX1709ESE-ND	4A, Low-Noise, High-Freq. Step-Up DC/DC Converter	16-SOIC	9.73	7.34	4.32
MAX1709ESE+-ND	4A, Low-Noise, High-Freq. Step-Up DC/DC Converter* ***NEW!***	16-SOIC	9.73	7.34	4.32
MAX1715EEI+-ND	Ultra High Efficiency, Dual Step-Down Controller for Notebook Computers*	28-QSOP	8.11	6.12	4.23
MAX1724EZK33+TCT-ND	3.3V, Step-Up DC/DC Converter*	SOT-23-5	3.63	2.74	2.40
MAX1724EZK33+TTR-ND	3.3V, Step-Up DC/DC Converter*	SOT-23-5	5480.00/2,500		
MAX1724EZK50-TCT-ND	5V, Step-Up DC/DC Converter	SOT-23-5	3.63	2.74	2.40
MAX1724EZK50-TTR-ND	5V, Step-Up DC/DC Converter	SOT-23-5	5480.00/2,500		
MAX1724EZK50+TCT-ND	5V, Step-Up DC/DC Converter*	SOT-23-5	3.63	2.74	2.40
MAX1724EZK50+TTR-ND	5V, Step-Up DC/DC Converter*	SOT-23-5	5480.00/2,500		
MAX1737EEI+-ND	Stand-Alone Switch-Mode Lithium-Ion Battery Charger Controller*	28-QSOP	7.76	5.86	3.45
MAX1745EUB+-ND	High Voltage, Step-Down DC/DC Controller*	10-µMAX	7.50	5.66	3.99
MAX1758EAI-ND	Stand-Alone Switch-Mode Lithium-Ion Battery Charger with Internal 28V Switch	28-SSOP	9.59	7.24	4.26
MAX1758EAI+-ND	Stand-Alone Switch-Mode Lithium-Ion Battery Charger with Internal 28V Switch*	28-SSOP	9.59	7.24	4.26
MAX1759EUB-ND	Buck/Boost Regulating Charge Pump	10-µMAX	6.33	4.78	2.81
MAX1759EUB+-ND	Buck/Boost Regulating Charge Pump*	10-µMAX	6.33	4.78	2.81
MAX1760EUB+-ND	0.8A, Low-Noise, 1MHz, Step-Up DC/DC Converter*	10-µMAX	6.97	5.26	3.09
MAX1771CPA-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Efficient	8-Dip	4.45	3.36	2.15
MAX1771CSA-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Efficient	8-SOIC	4.88	3.68	2.45
MAX1771CSA+-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Efficient*	8-SOIC	4.88	3.68	2.16
MAX1771ESA-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Efficient	8-SOIC	6.65	5.02	2.95
MAX1771ESA+-ND	12V or Adj. Out Step-Up DC/DC Converter 90% Efficient*	8-SOIC	6.65	5.02	2.95
MAX1775EEE-ND	Dual Output Step-Down DC/DC Converter	16-QSOP	8.32	6.28	3.69
MAX1775EEE+-ND	Dual Output Step-Down DC/DC Converter*	16-QSOP	8.32	6.28	3.69
MAX1790EUA-ND	Low Noise Step-Up DC/DC Converter	8-µMAX	6.86	5.18	3.05
MAX1792EUA15-ND	1.5V or Adj., 500mA LDO Linear Regulator	8-µMAX	3.18	2.40	1.41
MAX1792EUA15+-ND	1.5V or Adj., 500mA LDO Linear Regulator*	8-µMAX	3.18	2.40	1.41
MAX1797EUA-ND	Low Supply Current, Step-Up DC/DC Converter	8-µMAX	9.96	7.52	4.42
MAX1797EUA+-ND	Low Supply Current, Step-Up DC/DC Converter*	8-µMAX	9.96	7.52	4.42
MAX1818EUT33-TCT-ND	3.3V or Adj., 500mA LDO Linear Regulator	SOT-23-6	3.15	2.38	2.09
MAX1818EUT33-TTR-ND	3.3V or Adj., 500mA LDO Linear Regulator	SOT-23-6	4760.00/2,500		
MAX1831EEE-ND	3A, 1MHz, Low-Voltage Step-Down Regulator	16-QSOP	11.29	8.52	5.01
MAX1831EEE+-ND	3A, 1MHz, Low-Voltage Step-Down Regulator*	16-QSOP	11.29	8.52	5.01
MAX1856EUB-ND	Wide Input Range, Sync. PWM SLIC Power Supply	10-µMAX	4.27	3.22	1.90
MAX1856EUB+-ND	Wide Input Range, Sync. PWM SLIC Power Supply*	10-µMAX	4.27	3.22	1.90
MAX3080ECSD+-ND	10Mbps, High Speed , Slew-Rate Limited RS-485/RS-422 Transceiver*	14-SOIC	3.45	2.60	1.84
MAX3082CPA-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver	8-Dip	2.99	2.26	1.33
MAX3082CPA+-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver*	8-Dip	2.99	2.26	1.33
MAX3082CSA-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver	8-SOIC	2.99	2.26	1.33
MAX3082CSA+-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver*	8-SOIC	2.99	2.26	1.33
MAX3082ESA+-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver*	8-SOIC	3.74	2.82	1.66
MAX3086CSD-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver	14-SOIC	2.99	2.26	1.33
MAX3086CSD+-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver*	14-SOIC	2.99	2.26	1.33
MAX3088CSA+TCT-ND	10Mbps, High Speed, Slew-Rate Limited RS-485/RS-422 Transceiver*	8-SOIC	3.18	2.40	2.10
MAX3094ECSE+-ND	10Mbps, 3V, LP Quad RS-422/RS-485 Receiver*	16-SOIC	3.02	2.28	1.34
MAX3095CPE-ND	10Mbps, 5V, Quad RS-422/RS-485 Receiver, ESD Protected	16-Dip	3.02	2.28	1.34
MAX3095CPE+-ND	10Mbps, 5V, Quad RS-422/RS-485 Receiver, ESD Protected*	16-Dip	3.02	2.28	1.34
MAX3095EPE-ND	10Mbps, 5V, Quad RS-422/RS-485 Receiver, ESD Protected	16-Dip	4.29	3.24	1.91
MAX3096CEE-ND	10Mbps, 3V, Quad RS-422/RS-485 Receiver, ESD Protected	16-QSOP	3.02	2.28	1.34
MAX3096CEE+-ND	10Mbps, 3V, Quad RS-422/RS-485 Receiver, ESD Protected*	16-QSOP	3.02	2.28	1.34
MAX3096CSE-ND	10Mbps, 3V, Quad RS-422/RS-485 Receiver, ESD Protected	16-SOIC	3.02	2.28	1.34
MAX3096CSE+-ND	10Mbps, 3V, Quad RS-422/RS-485 Receiver, ESD Protected*	16-SOIC	3.02	2.28	1.34
MAX3097ECSE+-ND	32Mbps, 3V-5.5V, Triple RS-422/RS-485 Receiver, ESD Protected*	16-SOIC	8.75	6.60	3.89
MAX3100CEE+-ND	SPI/Microwire-Compatible UART*	16-QSOP	7.00	5.28	3.10
MAX3100CPD-ND	SPI/Microwire-Compatible UART	14-Dip	7.00	5.28	3.10
MAX3100CPD+-ND	SPI/Microwire-Compatible UART*	14-Dip	7.00	5.28	3.10
MAX3100EEE+-ND	SPI/Microwire-Compatible UART*	16-QSOP	9.99	7.54	4.43
MAX3100EPD+-ND	SPI/Microwire-Compatible UART*	14-Dip	9.99	7.54	4.43
MAX3110ECNI-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver	28-Dip	11.61	8.76	5.16
MAX3110ECWI-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver	28-SOIC	11.61	8.76	5.16
MAX3111ECWI-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver	28-SOIC	11.61	8.76	5.16
MAX3111EEWI-ND	SPI/Microwire-Compatible UART and ESD Protected RS-232 Transceiver	28-SOIC	16.62	12.54	7.37
MAX3140CEI+-ND	SPI/Microwire-Compatible UART with Integrated True Fail-Safe RS-485/RS-422 Transceiver*	28-QSOP	9.99	7.54	4.44
MAX3157CAI+-ND	High CMRR RS-485 Transceiver with ±50V Isolation*	28-SSOP	8.61	6.50	4.59
MAX3160EAP+-ND	+3V to +5.5V, 1µA, RS-232/RS-485/RS-422 Multiprotocol Transceiver*	20-SSOP	19.29	14.56	10.29
MAX3161EAG+-ND	+3V to +5.5V, 1µA, RS-232/RS-485/RS-422 Multiprotocol Transceiver*	24-SSOP	19.29	14.56	10.29
MAX3162EAI+-ND	+3V to +5.5V, Two Transceiver Two Receiver RS-232 Interface and Single RS-485/422 Transceiver*	28-SSOP	19.29	14.56	8.57
MAX3209ECUU-ND	12V, Dual RS-232 Serial Port with Low-Power Standby for Motherboards/Desktops	38-TSSOP	5.72	4.32	2.77
MAX3218CAP-ND	1.8V to 4.25V, RS-232 Transceiver with AutoShutdown	20-SSOP	4.74	3.58	2.10
MAX3218CAP+-ND	1.8V to 4.25V, RS-232 Transceiver with AutoShutdown*	20-SSOP	4.74	3.58	2.10
MAX3221CAE-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown	16-SSOP	2.84	2.14	1.37
MAX3221CAE+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown*	16-SSOP	2.84	2.14	1.37
MAX3221EAE-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown	16-SSOP	4.05	3.06	1.96
MAX3221EAE+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown*	16-SSOP	4.05	3.06	1.96
MAX3221ECAE-ND	3V to 5.5V, 250kbps, RS-232 Transceiver w/AutoShutdown, ESD Protected	16-SSOP	3.26	2.46	1.58
MAX3221ECAE+-ND	3V to 5.5V, 250kbps, RS-232 Transceiver w/AutoShutdown, ESD Protected*	16-SSOP	3.26	2.46	1.58
MAX3221EEAE-ND	3V to 5.5V, 250kbps, RS-232 Transceiver w/AutoShutdown, ESD Protected	16-SSOP	4.66	3.52	2.26
MAX3221EEAE+-ND	3V to 5.5V, 250kbps, RS-232 Transceiver w/AutoShutdown, ESD Protected*	16-SSOP	4.66	3.52	2.26
MAX3222CPN-ND	3V to 5.5V, Low Power, True RS-232 Transceiver	18-Dip	4.19	3.16	2.02
MAX3222CPN+-ND	3V to 5.5V, Low Power, True RS-232 Transceiver*	18-Dip	4.19	3.16	2.02
MAX3223EAP-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown	20-SSOP	5.41	4.08	2.62
MAX3223EAP+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown*	20-SSOP	5.41	4.08	2.62
MAX3223ECAP+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown*	20-SSOP	5.04	3.80	2.93
MAX3223EEAP+-ND	3V to 5.5V, 250kbps, RS-232 Transceiver with AutoShutdown, ESD Protected*	20-SSOP	7.21	5.44	3.49
MAX3223EEPP-ND	3V to 5.5V, 250kbps, RS-232 Transceiver with AutoShutdown, ESD Protected	20-Dip	7.21	5.44	3.49
MAX3224CAP-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown	20-SSOP	4.19	3.16	2.02
MAX3224CAP+-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown*	20-SSOP	4.19	3.16	2.02
MAX3224ECAP-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown, ESD Protected	20-SSOP	5.04	3.80	2.44
MAX3224ECAP+-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown, ESD Protected*	20-SSOP	5.04	3.80	2.44
MAX3226EEAE-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown, ESD Protected	16-SSOP	4.66	3.52	2.26
MAX3226EEAE+-ND	3V to 5.5V, 1Mbps, RS-232 Transceiver with AutoShutdown, ESD Protected*	16-SSOP	4.66	3.52	2.26

* ***RoHS Compliant***

(Continued)

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Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX3232CSE-ND	3V to 5.5V, True RS-232 Transceiver Up to 1Mbps	16-SOIC	4.19	3.16	2.02
MAX3232CSE+-ND	3V to 5.5V, True RS-232 Transceiver Up to 1Mbps*	16-SOIC	4.19	3.16	2.02
MAX3232CUE-ND	3V to 5.5V, True RS-232 Transceiver Up to 1Mbps	16-TSSOP	4.16	3.14	1.85
MAX3232CUE+-ND	3V to 5.5V, True RS-232 Transceiver Up to 1Mbps*	16-TSSOP	4.16	3.14	1.85
MAX3232ECAE-ND	3V to 5.5V, True RS-232 Transceiver, ESD Prot.	16-SSOP	5.04	3.80	2.93
MAX3232ECAE+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Prot.*	16-SSOP	5.04	3.80	2.44
MAX3232ECPE-ND	3V to 5.5V, True RS-232 Transceiver, ESD Prot.	16-Dip	5.04	3.80	2.44
MAX3232ECWE-ND	3V to 5.5V, True RS-232 Transceiver, ESD Prot.	16-SOIC	5.04	3.80	2.44
MAX3232ECWE+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Prot.*	16-SOIC	5.04	3.80	2.44
MAX3232EEAE-ND	3V to 5.5V, True RS-232 Transceiver, ESD Prot.	16-SSOP	7.21	5.44	3.49
MAX3232EEAE+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Prot.*	16-SSOP	7.21	5.44	3.49
MAX3233ECPP-ND	3V to 3.6V, 250kbps, Dual RS-232 Transceiver, ESD Protected	20-Dip	8.80	6.64	4.25
MAX3233ECWP-ND	3V to 3.6V, 250kbps, Dual RS-232 Transceiver, ESD Prot.	20-SOIC	8.80	6.64	4.25
MAX3233EEWP-ND	3V to 3.6V, 250kbps, Dual RS-232 Transceiver, ESD Prot.	20-SOIC	12.22	9.22	5.91
MAX3235ECWP-ND	4.5V to 5.5V, 250kbps, Dual RS-232 Transceiver, ESD Prot.	20-SOIC	8.11	6.12	3.92
MAX3235EEWP-ND	4.5V to 5.5V, 250kbps, Dual RS-232 Transceiver, ESD Prot.	20-SOIC	11.24	8.48	5.44
MAX3237CAI-ND	3V to 5.5V, True RS-232 Transceiver	28-SSOP	7.53	5.68	3.65
MAX3237CAI+-ND	3V to 5.5V, True RS-232 Transceiver*	28-SSOP	7.53	5.68	3.65
MAX3237EAI+-ND	3V to 5.5V, True RS-232 Transceiver*	28-SSOP	10.76	8.12	5.21
MAX3237EEAI+-ND	3V to 5.5V, True RS-232 Transceiver, ESD Prot.*	28-SSOP	11.98	9.04	5.79
MAX3238EAI+-ND	3V to 5.5V, 250kbps True RS-232 Transceiver with AutoShutdown Plus*	28-SSOP	10.76	8.12	6.26
MAX3238ECAI-ND	3V to 5.5V, 250kbps True RS-232 Transceiver, ESD Prot.	28-SSOP	8.75	6.60	4.23
MAX3238ECAI+-ND	3V to 5.5V, 250kbps True RS-232 Transceiver, ESD Prot.*	28-SSOP	8.75	6.60	4.23
MAX3241CAI-ND	3V to 5.5V, LP True RS-232 Transceiver	28-SSOP	7.53	5.68	3.65
MAX3241CAI+-ND	3V to 5.5V, LP True RS-232 Transceiver*	28-SSOP	7.53	5.68	3.65
MAX3241EAI-ND	3V to 5.5V, LP True RS-232 Transceiver	28-SSOP	10.76	8.12	5.21
MAX3241EAI+-ND	3V to 5.5V, LP True RS-232 Transceiver*	28-SSOP	10.76	8.12	5.21
MAX3241ECAI-ND	3V to 5.5V, LP True RS-232 Transceiver, ESD Prot.	28-SSOP	8.75	6.60	4.23
MAX3241ECAI+-ND	3V to 5.5V, LP True RS-232 Transceiver, ESD Prot.*	28-SSOP	8.75	6.60	4.23
MAX3241EEAI-ND	3V to 5.5V, LP True RS-232 Transceiver, ESD Prot.	28-SSOP	11.98	9.04	5.79
MAX3241EEAI+-ND	3V to 5.5V, LP True RS-232 Transceiver, ESD Prot.*	28-SSOP	11.98	9.04	5.79
MAX3243CAI-ND	3V to 5.5V, RS-232 Transceiver w/AutoShutdown	28-SSOP	7.53	5.68	3.65
MAX3243CAI+-ND	3V to 5.5V, RS-232 Transceiver w/AutoShutdown*	28-SSOP	7.53	5.68	3.65
MAX3243EAI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown	28-SSOP	10.76	8.12	5.21
MAX3243EAI+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown*	28-SSOP	10.76	8.12	5.21
MAX3243ECAI+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protection*	28-SSOP	8.75	6.60	4.23
MAX3244ECAI+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protection*	28-SSOP	8.75	6.60	4.23
MAX3244ECWI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protection	28-SOIC	8.75	6.60	4.23
MAX3245ECAI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protection	28-SSOP	9.54	7.20	4.23
MAX3245ECAI+-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protection*	28-SSOP	9.54	7.20	4.23
MAX3245EEWI-ND	3V to 5.5V, RS-232 Transceiver with AutoShutdown, ESD Protection	28-SOIC	13.06	9.86	5.79
MAX3291EPD-ND	5Mbps to 10Mbps, RS-485/RS-422 Transceiver	14-Dip	9.51	7.18	4.22
MAX3292ESD-ND	Prog. up to 10Mbps, RS-485/RS-422 Transceiver	14-SOIC	9.51	7.18	4.22
MAX3292ESD+-ND	Prog. up to 10Mbps, RS-485/RS-422 Transceiver* ***NEW!***	14-SOIC	9.51	7.18	4.22
MAX3311CUB-ND	460kbps, 1µA Supply Current RS-232 Transceiver	10-µMAX	2.60	1.96	1.15
MAX3311CUB+-ND	460kbps, 1µA Supply Current RS-232 Transceiver*	10-µMAX	2.60	1.96	1.15
MAX3311ECUB-ND	460kbps, 1µA Supply Current RS-232 Transceiver, ESD Prot.	10-µMAX	2.92	2.20	1.29
MAX3311ECUB+-ND	460kbps, 1µA Supply Current RS-232 Transceiver, ESD Prot.*	10-µMAX	2.92	2.20	1.29
MAX3311EEUB-ND	460kbps, 1µA Supply Current RS-232 Transceiver, ESD Prot.	10-µMAX	3.79	2.86	1.68
MAX3311EEUB+-ND	460kbps, 1µA Supply Current RS-232 Transceiver, ESD Prot.*	10-µMAX	3.79	2.86	1.68
MAX3313CUB-ND	460kbps, 1µA Supply Current RS-232 Transceiver	10-µMAX	2.60	1.96	1.15
MAX3313CUB+-ND	460kbps, 1µA Supply Current RS-232 Transceiver*	10-µMAX	2.60	1.96	1.15
MAX3313ECUB+-ND	460kbps, 1µA Supply Current RS-232 Transceiver, ESD Prot.*	10-µMAX	2.92	2.20	1.29
MAX3319ECAE-ND	2.5V, 1µA, 460kbps, RS-232 Transceiver	16-SSOP	5.49	4.14	2.44
MAX3319ECAE+-ND	2.5V, 1µA, 460kbps, RS-232 Transceiver*	16-SSOP	5.49	4.14	2.44
MAX3320TEAP-ND	3V to 5.5V, True RS-232 Transceiver with AutoShutdown	20-SSOP	6.49	4.90	2.89
MAX3371EXT-TCT-ND	1µA, 2Mbps, Low Voltage Level Translator	SC70-6	2.20	1.66	1.46
MAX3371EXT-TTR-ND	1µA, 2Mbps, Low Voltage Level Translator	SC70-6	3320.00/2,500		
MAX3386ECUP-ND	3V, 250kbps, RS-232 Transceiver, ESD Protected	20-TSSOP	5.70	4.30	2.75
MAX3386ECUP+-ND	3V, 250kbps, RS-232 Transceiver, ESD Protected*	20-TSSOP	5.70	4.30	2.75
MAX3387ECUG-ND	3V, 250kbps, RS-232 Transceiver, Auto Shutdown, ESD Protected	24-TSSOP	7.34	5.54	3.25
MAX3387ECUG+-ND	3V, 250kbps, RS-232 Transceiver, Auto Shutdown, ESD Protected*	24-TSSOP	7.34	5.54	3.25
MAX3387EEUG-ND	3V, 250kbps, RS-232 Transceiver, AutoShutdown, ESD Protected	24-TSSOP	8.75	6.60	3.88
MAX3387EEUG+-ND	3V, 250kbps, RS-232 Transceiver, Auto Shutdown, ESD Protected*	24-TSSOP	8.75	6.60	3.88
MAX3420EECJ+-ND	USB Peripheral Controller with SPI Interface* ***NEW!***	32-TQFP	7.45	6.08	3.58
MAX3420EETG+-ND	USB Peripheral Controller with SPI Interface* ***NEW!***	24-TQFN	7.90	5.96	3.51
MAX3471EUA-ND	1.6µA, RS-485/RS-422, Half-Duplex Diff. Transceiver	8-µMAX	5.19	3.92	2.31
MAX3471EUA+-ND	1.6µA, RS-485/RS-422, Half-Duplex Diff. Transceiver*	8-µMAX	5.19	3.92	2.31
MAX3483ECSA-ND	3V to 3.6V, 250kbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	4.32	3.26	2.09
MAX3483ECSA+-ND	3V to 3.6V, 250kbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	4.32	3.26	2.09
MAX3483EESA-ND	3V to 3.6V, 250kbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected	8-SOIC	5.46	4.12	2.64
MAX3483EESA+-ND	3V to 3.6V, 250kbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected*	8-SOIC	5.46	4.12	2.64
MAX3486CSA+-ND	3.3V, 2.5Mbps, Slew Rate Limited, True RS-485/422 Transceiver*	8-SOIC	3.82	2.88	2.21
MAX3490CSA-ND	3.3V, 10Mbps, Slew Rate Limited, True RS-485/422 Transceiver	8-SOIC	3.82	2.88	1.84
MAX3490CSA+-ND	3.3V, 10Mbps, Slew Rate Limited, True RS-485/422 Transceiver*	8-SOIC	3.82	2.88	1.84
MAX3490ECSA+-ND	3.3V, 10Mbps, Slew Rate Limited, True RS-485/422 Transceiver*	8-SOIC	4.32	3.26	2.51
MAX3491ECSD-ND	3V to 3.6V, 12Mbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	4.32	3.26	2.09
MAX3491ECSD+-ND	3V to 3.6V, 12Mbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected*	14-SOIC	4.32	3.26	2.09
MAX3491EESD-ND	3V to 3.6V, 12Mbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected	14-SOIC	5.46	4.12	2.64
MAX3491EESD+-ND	3V to 3.6V, 12Mbps and Slew Rate Limited True RS-485/RS-422 Transceiver, ESD Protected*	14-SOIC	5.46	4.12	2.64
MAX3656ETG+-ND	155Mbps to 2.5Gbps Burst-Mode Laser Driver*	24-QFN-EP	15.00	11.32	8.66
MAX3869EHJ+-ND	+3.3V, 2.5Gbps SDH/SONET Laser Driver*	32-TQFP	23.66	17.86	13.67
MAX4002EUA+-ND	2.5GHz, 45dB RF Detecting Controller*	8-µMAX	3.39	2.56	2.11
MAX4003EUA-ND	100MHz to 2500MHz, 45dB RF Detector	8-µMAX	2.46	1.86	1.09
MAX4003EUA+-ND	100MHz to 2500MHz, 45dB RF Detector*	8-µMAX	2.46	1.86	1.09
MAX4018EEE-ND	High Speed, Triple Op Amp with Rail-to-Rail Output	16-QSOP	4.77	3.60	2.12
MAX4018EEE+-ND	High Speed, Triple Op Amp with Rail-to-Rail Output*	16-QSOP	4.77	3.60	2.12
MAX4020ESD+-ND	High Speed, Quad Op Amp with Rail-to-Rail Output*	14-SOIC	5.43	4.10	2.41
MAX4051ACPE-ND	8-Ch., Low-Voltage, CMOS Analog Mux/Switch	16-Dip	4.37	3.30	2.11
MAX4051ACPE+-ND	8-Ch., Low-Voltage, CMOS Analog Mux/Switch* ***NEW!***	16-Dip	4.37	3.30	2.11
MAX4051ACSE-ND	8-Ch., Low-Voltage, CMOS Analog Mux/Switch	16-SOIC	4.05	3.06	1.96
MAX4051ACSE+-ND	8-Ch., Low-Voltage, CMOS Analog Mux/Switch*	16-SOIC	4.05	3.06	1.96
MAX4051CSE+-ND	8-Ch., Low-Voltage, CMOS Analog Mux/Switch*	16-SOIC	3.13	2.57	2.04
MAX4052ACEE+-ND	Dual 4-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-QSOP	4.82	3.64	2.34
MAX4052AEEE-ND	Dual 4-Channel, Low-Voltage, CMOS Analog Mux/Switch	16-QSOP	6.28	4.74	3.04
MAX4052AEEE+-ND	Dual 4-Channel, Low-Voltage, CMOS Analog Mux/Switch*	16-QSOP	6.28	4.74	3.04
MAX4066CPD-ND	Low-Voltage, Quad, SPST, CMOS Analog Switch	14-Dip	2.28	1.72	1.10
MAX4107ESA-ND	300MHz, Ultra-Low Noise Op Amp	8-SOIC	3.76	2.84	1.67
MAX4107ESA+-ND	300MHz, Ultra-Low Noise Op Amp*	8-SOIC	3.76	2.84	1.67
MAX4121CSA-ND	330MHz Multiplexer/Crosspoint Building Block IC	8-SOIC	5.25	3.96	2.54
MAX4121CSA+-ND	330MHz Multiplexer/Crosspoint Building Block IC*	8-SOIC	5.25	3.96	2.54
MAX4123ESA-ND	Single, 5MHz, Single Supply Op Amp with Shutdown	8-SOIC	2.60	1.96	1.26
MAX4125ESA-ND	Single, 10 V/µs, Single Supply Op Amp with Shutdown	8-SOIC	2.60	1.96	1.26
MAX4126ESA-ND	Dual, 5MHz, Single Supply Op Amp	8-SOIC	3.74	2.82	1.81
MAX4126ESA+-ND	Dual, 5MHz, Single Supply Op Amp*	8-SOIC	3.74	2.82	1.81
MAX4127ESD-ND	Dual, 5MHz, Single Supply Op Amp with Shutdown	14-SOIC	4.43	3.34	2.14
MAX4128ESA-ND	Dual, 10 V/µs, Single Supply Op Amp	8-SOIC	3.74	2.82	1.81
MAX4128EUA-ND	Dual, 10 V/µs, Single Supply Op Amp	8-µMAX	3.98	3.00	1.77
MAX4129ESD+-ND	Quad, 5MHz, Single Supply Op Amp*	14-SOIC	6.36	4.80	3.08
MAX4131ESA+-ND	Single, 10MHz, Single Supply Op Amp with Shutdown*	8-SOIC	2.60	1.96	1.26
MAX4132ESA-ND	Dual, 10MHz, Single Supply Op Amp	8-SOIC	3.74	2.82	1.81
MAX4132ESA+-ND	Dual, 10MHz, Single Supply Op Amp*	8-SOIC	3.74	2.82	1.81
MAX4134ESD-ND	Quad, 10MHz, Single Supply Op Amp	14-SOIC	6.36	4.80	3.08
MAX4134ESD+-ND	Quad, 10MHz, Single Supply Op Amp*	14-SOIC	6.36	4.80	3.08
MAX4144ESD-ND	High-Speed, Low-Distortion, Diff. Line Receiver	14-SOIC	6.36	4.80	2.83
MAX4144ESD+-ND	High-Speed, Low-Distortion, Diff. Line Receiver*	14-SOIC	6.36	4.80	2.83
MAX4145ESD-ND	High-Speed, Low-Distortion, Diff. Line Receiver	14-SOIC	6.36	4.80	2.83
MAX4145ESD+-ND	High-Speed, Low-Distortion, Diff. Line Receiver*	14-SOIC	6.36	4.80	2.83
MAX4147ESD-ND	300MHz, LP, High Output Current, Diff. Line Driver	14-SOIC	6.63	5.00	2.94
MAX4147ESD+-ND	300MHz, LP, High Output Current, Diff. Line Driver*	14-SOIC	6.63	5.00	2.94
MAX4162ESA-ND	10V, Micropower, Rail-to-Rail Input/Output Op Amp	8-SOIC	2.65	2.00	1.18
MAX4162ESA+-ND	10V, Micropower, Rail-to-Rail Input/Output Op Amp*	8-SOIC	2.65	2.00	1.18
MAX4162EUK+TCT-ND	10V, Micropower, Rail-to-Rail Input/Output Op Amp*	SOT-23-5	3.47	2.62	2.30
MAX4162EUK+TTR-ND	10V, Micropower, Rail-to-Rail Input/Output Op Amp*	SOT-23-5	5240.00/2,500		
MAX4163ESA+-ND	10V, Micropower, Rail-to-Rail Input/Output Dual Op Amp*	8-SOIC	3.31	2.50	1.47
MAX4172ESA+-ND	High-Side Current Sense Amplifier*	8-SOIC	3.84	2.90	1.87
MAX4172EUA-ND	High-Side Current Sense Amplifier	8-µMAX	3.52	2.66	1.71
MAX4172EUA+-ND	High-Side Current Sense Amplifier*	8-µMAX	3.52	2.66	1.71
MAX4173FESA-ND	Voltage-Output, High-Side Current-Sense Amp	8-SOIC	1.88	1.42	.84
MAX4173FESA+-ND	Voltage-Output, High-Side Current-Sense Amp*	8-SOIC	1.88	1.42	.84
MAX4173HESA+-ND	Voltage-Output, High-Side Current-Sense Amp*	8-SOIC	1.88	1.42	.84
MAX4173TESA-ND	Voltage-Output, High-Side Current-Sense Amp	8-SOIC	1.88	1.42	.84
MAX4173TESA+-ND	Voltage-Output, High-Side Current-Sense Amp*	8-SOIC	1.88	1.42	.84
MAX4194ESA-ND	Variable-Gain Precision Instrumentation Amp	8-SOIC	4.03	3.04	1.78
MAX4194ESA+-ND	Variable-Gain Precision Instrumentation Amp*	8-SOIC	4.03	3.04	1.78
MAX4218ESD-ND	Triple, 300MHz, Single Supply, Rail-to-Rail Op Amp	14-SOIC	7.90	5.96	3.58
MAX4220EEE-ND	High-Speed Single Supply Rail-to-Rail Quad Op Amp	16-QSOP	10.49	7.92	5.08
MAX4220ESD-ND	High-Speed Single Supply Rail-to-Rail Quad Op Amp	14-SOIC	10.49	7.92	5.08
MAX4222ESD+-ND	High-Speed, Single Supply Gain of 2, Closed-Loop R/R Buffer*	14-SOIC	9.01	6.80	4.00
MAX4242ESA-ND	Dual 1.8V, Beyond-the-Rails Op Amp	8-SOIC	3.45	2.60	1.53
MAX4242ESA+-ND	Dual 1.8V, Beyond-the-Rails Op Amp*	8-SOIC	3.45	2.60	1.53
MAX4252ESA+-ND	UCSP, Single Supply, Low Noise, Low Distortion, Rail-to-Rail Op Amp*	8-SOIC	3.18	2.40	2.15
MAX4310ESA-ND	High Speed, Low Power, Dual Video Mux Amp	8-SOIC	5.51	4.16	2.97
MAX4310ESA+-ND	High Speed, Low Power, Dual Video Mux Amp*	8-SOIC	5.51	4.16	2.45
MAX4311ESD+-ND	High Speed, Low Power, Quad Video Mux Amp*	14-SOIC	7.39	5.58	3.28
MAX4314ESD+-ND	High Speed, Low Power, Quad Video Mux Amp*	14-SOIC	7.39	5.58	3.28
MAX4357ECD+-ND	32x16 Nonblocking Video Crosspoint Switch with In/Out Buffers*	128-TQFP	337.88	255.00	—
MAX4372FEUK+TCT-ND	50V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	1.88	1.42	1.25
MAX4372FEUK+TTR-ND	50V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	2840.00/2,500		
MAX4372TEUK-TCT-ND	20V/V, Micropower, High-Side Current-Sense Amp	SOT-23-5	1.88	1.42	1.25
MAX4372TEUK-TTR-ND	20V/V, Micropower, High-Side Current-Sense Amp	SOT-23-5	2840.00/2,500		
MAX4372TEUK+TCT-ND	20V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	1.88	1.42	1.25
MAX4372TEUK+TTR-ND	20V/V, Micropower, High-Side Current-Sense Amp*	SOT-23-5	2840.00/2,500		
MAX4373FEUA+-ND	Micropower, High-Side Current-Sense Amp/Comparator/Ref.*	8-µMAX	2.94	2.22	1.31
MAX4373TESA+-ND	Micropower, High-Side Current-Sense Amp/Comparator/Ref.*	8-SOIC	2.94	2.22	1.31
MAX4373TEUA-ND	Micropower, High-Side Current-Sense Amp/Comparator/Ref.	8-µMAX	2.94	2.22	1.31
MAX4373TEUA+-ND	Micropower, High-Side Current-Sense Amp/Comparator/Ref.*	8-µMAX	2.94	2.22	1.31
MAX4374HEUB-ND	Micropower, High-Side Current-Sense Amp/Comparator/Ref.	10-µMAX	3.84	2.90	1.70
MAX4412EUK+TCT-ND	3V/5V, 500MHz, Single Supply Op Amp with R/R Output*	SOT-23-5	2.76	2.08	1.82
MAX4412EUK+TTR-ND	3V/5V, 500MHz, Single Supply Op Amp with R/R Output*	SOT-23-5	4160.00/2,500		
MAX4420CPA-ND	High-Speed 6A MOSFET Driver, Non-Inverting	8-Dip	3.39	2.56	1.83

* ***RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MAX4420CPA+-ND	High-Speed 6A MOSFET Driver, Non-Inverting* ***NEW!***	8-Dip	3.39	2.56	1.83
MAX4420ESA-ND	High-Speed 6A MOSFET Driver, Non-Inverting	8-SOIC	4.58	3.46	2.47
MAX4420ESA+-ND	High-Speed 6A MOSFET Driver, Non-Inverting* ***NEW!***	8-SOIC	4.58	3.46	2.47
MAX4429CPA-ND	High-Speed 6A MOSFET Driver, Inverting	8-Dip	3.39	2.56	1.83
MAX4515CSA-ND	Low-Voltage, Low-On Res., SPST, CMOS Analog N/C Switch	8-SOIC	1.46	1.10	.65
MAX4521CPE-ND	Low-Voltage, SPST, 4 Normally Closed Analog Switches	16-Dip	1.72	1.30	.77
MAX4523CEE-ND	Low-Voltage, SPST, 2 N/C and 2 N/O Analog Switches	16-QSOP	2.23	1.68	.99
MAX4526CSA-ND	Phase-Reversal Analog Switch	8-SOIC	5.70	4.30	2.53
MAX4533CAP-ND	Quad, R/R, Fault-Protected SPDT Analog Switch	20-SSOP	8.51	6.42	3.78
MAX4533CAP+-ND	Quad, R/R, Fault-Protected SPDT Analog Switch*	20-SSOP	8.51	6.42	3.78
MAX4537ESE-ND	Quad, Low-Voltage, SPST Analog Switch	16-SOIC	2.84	2.14	1.26
MAX4542EUA-ND	Dual SPST Normally Closed Analog Switch	8-µMAX	1.64	1.24	.73
MAX4544CPA-ND	Dual SPDT Low-Voltage Analog Switch	8-Dip	1.56	1.18	.70
MAX4544CSA+-ND	Dual SPDT Low-Voltage Analog Switch*	8-SOIC	1.56	1.18	.70
MAX4544EPA-ND	Dual SPDT Low-Voltage Analog Switch	8-Dip	1.56	1.18	.70
MAX4544ESA-ND	Dual SPDT Low-Voltage Analog Switch	8-SOIC	1.56	1.18	.70
MAX4544EUT+TCT-ND	Dual SPDT Low-Voltage Analog Switch*	SOT-23-6	1.67	1.26	1.11
MAX4544EUT+TTR-ND	Dual SPDT Low-Voltage Analog Switch*	SOT-23-6	2520.00/2,500		
MAX4567CSE-ND	Dual SPDT Low-Voltage, Bidirectional RF/Video Switch	16-SOIC	4.40	3.32	1.95
MAX4614CSD-ND	Quad SPST Low-Voltage, High Speed CMOS Analog Switch	14-SOIC	2.33	1.76	1.04
MAX4614CSD+-ND	Quad SPST Low-Voltage, High Speed CMOS Analog Switch*	14-SOIC	2.33	1.76	1.04
MAX4617CUE-ND	8-Channel, High Speed, Low-Voltage, CMOS Analog Mux	16-TSSOP	2.70	2.04	1.23
MAX4617CUE+-ND	8-Channel, High Speed, Low-Voltage, CMOS Analog Mux* ***NEW!***	16-TSSOP	2.70	2.04	1.23
MAX4618CSE-ND	Dual 4-Ch. High Speed, Low-Voltage, CMOS Analog Mux	16-SOIC	2.39	1.80	1.06
MAX4618CSE+-ND	Dual 4-Ch. High Speed, Low-Voltage, CMOS Analog Mux* ***NEW!***	16-SOIC	2.39	1.80	1.06
MAX4619CPE-ND	Triple SPDT, HS, Low-Voltage, CMOS Analog Switch	16-Dip	2.39	1.80	1.06
MAX4619CSE-ND	Triple SPDT, HS, Low-Voltage, CMOS Analog Switch	16-SOIC	2.39	1.80	1.08
MAX4619CSE+-ND	Triple SPDT, HS, Low-Voltage, CMOS Analog Switch* ***NEW!***	16-SOIC	2.39	1.80	1.08
MAX4622CSE-ND	SPDT Dual 5-Ohm Analog Switch	16-SOIC	5.25	3.96	2.33
MAX4622ESE-ND	SPDT Dual 5-Ohm Analog Switch	16-SOIC	5.78	4.36	2.62
MAX4624EUT-TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch	SOT-23-6	2.65	2.00	1.75
MAX4624EUT-TTR-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch	SOT-23-6	4000.00/2,500		
MAX4624EUT+TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch* ***NEW!***	SOT-23-6	2.65	2.00	1.75
MAX4624EUT+TTR-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch* ***NEW!***	SOT-23-6	4000.00/2,500		
MAX4625EUT-TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch	SOT-23-6	2.65	2.00	1.75
MAX4625EUT-TTR-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch	SOT-23-6	4000.00/2,500		
MAX4625EUT+TCT-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	SOT-23-6	2.65	2.00	1.75
MAX4625EUT+TTR-ND	1-Ohm, Low-Voltage Single-Supply SPDT Analog Switch*	SOT-23-6	4000.00/2,500		
MAX4626EUK-TCT-ND	0.5-Ohm, Low-Voltage Single-Supply SPST Analog Switch	SOT-23-5	2.52	1.90	1.67
MAX4626EUK-TTR-ND	0.5-Ohm, Low-Voltage Single-Supply SPST Analog Switch	SOT-23-5	3800.00/2,500		
MAX4626EUK+TCT-ND	0.5-Ohm, Low-Voltage Single-Supply SPST Analog Switch* ***NEW!***	SOT-23-5	2.52	1.90	1.67
MAX4626EUK+TTR-ND	0.5-Ohm, Low-Voltage Single-Supply SPST Analog Switch* ***NEW!***	SOT-23-5	3800.00/2,500		
MAX4634EUB+-ND	4-Ohm, Low-Voltage 4-Ch., CMOS Analog Mux*	10-µMAX	2.89	2.18	1.28
MAX4636EUB-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch	10-µMAX	2.76	2.08	1.22
MAX4636EUB+-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch* ***NEW!***	10-µMAX	2.76	2.08	1.22
MAX4644EUT-TCT-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch	SOT-23-6	1.83	1.38	1.21
MAX4644EUT-TTR-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch	SOT-23-6	2760.00/2,500		
MAX4644EUT+TCT-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch*	SOT-23-6	1.83	1.38	1.21
MAX4644EUT+TTR-ND	4-Ohm, Low-Voltage SPDT CMOS Analog Switch*	SOT-23-6	2760.00/2,500		
MAX4648EUT-TCT-ND	25-Ohm, SPST Analog Switch	SOT-23-6	3.10	2.34	2.05
MAX4648EUT-TTR-ND	25-Ohm, SPST Analog Switch	SOT-23-6	4680.00/2,500		
MAX4648EUT+TCT-ND	25-Ohm, SPST Analog Switch*	SOT-23-6	3.10	2.34	2.05
MAX4648EUT+TTR-ND	25-Ohm, SPST Analog Switch*	SOT-23-6	4680.00/2,500		
MAX4649EKA+TCT-ND	45-Ohm, SPDT Analog Switch*	SOT-23-8	3.39	2.56	2.24
MAX4649EKA+TTR-ND	45-Ohm, SPDT Analog Switch*	SOT-23-8	5120.00/2,500		
MAX4661CAE-ND	2.5-Ohm, Quad, SPST, CMOS Analog Switch	16-SSOP	9.91	7.48	4.40
MAX4661CAE+-ND	2.5-Ohm, Quad, SPST, CMOS Analog Switch*	16-SSOP	9.91	7.48	4.40
MAX4685EUB-ND	0.8-Ohm, Low Voltage, Dual SPDT Analog Switch	10-µMAX	3.50	2.64	1.55
MAX4685EUB+-ND	0.8-Ohm, Low Voltage, Dual SPDT Analog Switch*	10-µMAX	3.50	2.64	1.55
MAX4691EGE-TCT-ND	Low Voltage, CMOS Analog 8-Channel Mux	16-QFN	4.13	3.12	2.73
MAX4691EGE-TTR-ND	Low Voltage, CMOS Analog 8-Channel Mux	16-QFN	6240.00/2,500		
MAX4820EUP+-ND	+3.3V/+5V, 8-Channel, Cascadable Relay Driver with Serial/Parallel Interface*	20-TSSOP	3.68	2.78	1.67
MAX5100AEUP-ND	2.7 to 5.5V, Low Power, Quad, Parallel 8-Bit DAC with Rail-to-Rail Voltage Output	20-TSSOP	9.57	7.22	4.34
MAX5100AEUP+-ND	2.7 to 5.5V, Low Power, Quad, Parallel 8-Bit DAC with Rail-to-Rail Voltage Output*	20-TSSOP	9.57	7.22	4.34
MAX5102AEUE+-ND	2.7 to 5.5V, Low Power, Dual, Parallel 8-Bit DAC with Rail-to-Rail Voltage Output*	16-TSSOP	7.69	5.80	3.42
MAX5102BEUE+-ND	2.7 to 5.5V, Low Power, Dual, Parallel 8-Bit DAC with Rail-to-Rail Voltage Output*	16-TSSOP	6.41	4.84	2.85
MAX5156BCEE+-ND	Low Power, Dual, 12-Bit Voltage Output DAC with Configurable Output*	16-QSOP	18.42	13.90	11.04
MAX5190BEEG-ND	8-Bit, 40MHz, Current/Voltage Output DAC	24-QSOP	7.71	5.82	3.41
MAX5250BCAP-ND	5V, 10-Bit Quad Voltage Output Serial DAC	20-SSOP	15.18	11.46	7.35
MAX5250BCAP+-ND	5V, 10-Bit Quad Voltage Output Serial DAC*	20-SSOP	15.18	11.46	7.35
MAX5250BCPP-ND	5V, 10-Bit Quad Voltage Output Serial DAC	20-Dip	15.18	11.46	7.35
MAX5250BEAP-ND	5V, 10-Bit Quad Voltage Output Serial DAC	20-SSOP	19.72	14.88	8.76
MAX5251BCAP-ND	3V, 10-Bit Quad Voltage Output Serial DAC	20-SSOP	15.18	11.46	7.35
MAX5251BCAP+-ND	3V, 10-Bit Quad Voltage Output Serial DAC*	20-SSOP	15.18	15.18	7.35
MAX5253BCAP-ND	3V, 12-Bit Quad Voltage Output Serial DAC	20-SSOP	34.87	26.32	16.87
MAX5258EEE-ND	5V, Low Power, 8-Bit Octal DAC with R/R Output Buffer	16-QSOP	8.61	6.50	3.82
MAX5258EEE+-ND	5V, Low Power, 8-Bit Octal DAC with R/R Output Buffer*	16-QSOP	8.61	6.50	3.82
MAX5259EEE+-ND	3V, Low Power, 8-Bit Octal DAC with R/R Output Buffer*	16-QSOP	8.61	6.50	3.82
MAX5352BCPA-ND	5V, 12-Bit Voltage Output Serial DAC	8-Dip	12.91	9.74	6.24
MAX5352BCUA+-ND	5V, 12-Bit Voltage Output Serial DAC*	8-µMAX	12.91	9.74	6.24
MAX5353BCUA-ND	3.3V, 12-Bit Voltage Output Serial DAC	8-µMAX	12.91	9.74	6.24
MAX5354CPA-ND	5V, 10-Bit Voltage Output Serial DAC	8-Dip	7.61	5.74	3.69
MAX5354CUA+-ND	5V, 10-Bit Voltage Output Serial DAC*	8-µMAX	8.29	6.26	4.03
MAX5355CUA-ND	3.3V, 10-Bit Voltage Output Serial DAC	8-µMAX	8.16	6.16	3.96
MAX5355CUA+-ND	3.3V, 10-Bit Voltage Output Serial DAC*	8-µMAX	8.90	6.72	4.31
MAX5401EKA-TCT-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer	SOT-23-8	2.68	2.02	1.77
MAX5401EKA-TTR-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer	SOT-23-8	4040.00/2,500		
MAX5401EKA+TCT-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer*	SOT-23-8	2.57	1.94	1.70
MAX5401EKA+TTR-ND	256-Tap SOT-PoT, Low Drift Digital Potentiometer*	SOT-23-8	3880.00/2,500		
MAX5402EUA-ND	256-Tap, Digital Potentiometer	8-µMAX	2.97	2.24	1.32
MAX6002EUR+TCT-ND	2.5V, Low Power, LDO Voltage Reference*	SOT-23	1.03	.78	.69
MAX6002EUR+TTR-ND	2.5V, Low Power, LDO Voltage Reference*	SOT-23	1560.00/2,500		
MAX6012AEUR-TCT-ND	1.247V, Precision, Low Power, LDO Voltage Reference	SOT-23	4.37	3.30	2.89
MAX6012AEUR-TTR-ND	1.247V, Precision, Low Power, LDO Voltage Reference	SOT-23	6600.00/2,500		
MAX6012AEUR+TCT-ND	1.247V, Precision, Low Power, LDO Voltage Reference*	SOT-23	4.00	3.02	2.65
MAX6012AEUR+TTR-ND	1.247V, Precision, Low Power, LDO Voltage Reference*	SOT-23	6040.00/2,500		
MAX6120ESA-ND	Low-Cost, Micropower, 1.2V Precision, 3-Terminal Volt. Ref.	8-SOIC	2.52	1.90	1.23
MAX6145EUR+TCT-ND	4.5V, LDO 3-Terminal Voltage Reference*	SOT-23	3.02	2.28	2.00
MAX6145EUR+TTR-ND	4.5V, LDO 3-Terminal Voltage Reference*	SOT-23	4560.00/2,500		
MAX6192AESA-ND	2.5V, Precision, Micropower, LDO Voltage Reference	8-SOIC	6.28	4.74	2.78
MAX6192AESA+-ND	2.5V, Precision, Micropower, LDO Voltage Reference*	8-SOIC	5.75	4.34	2.55
MAX6225AEPA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Reference	8-Dip	13.70	10.34	6.64
MAX6225AEPA+-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Reference*	8-Dip	12.56	9.48	6.08
MAX6225AESA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Reference	8-SOIC	13.70	10.34	6.64
MAX6225BCSA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Reference	8-SOIC	5.99	4.52	2.65
MAX6225BEPA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Reference	8-Dip	6.31	4.76	3.06
MAX6225BEPA+-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Reference*	8-Dip	5.78	4.36	2.80
MAX6225BESA-ND	Low-Drift, Low-Noise, 2.5V Precision Voltage Reference	8-SOIC	6.31	4.76	3.06
MAX6241AESA-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Reference	8-SOIC	13.70	10.34	6.64
MAX6241BESA-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Reference	8-SOIC	6.31	4.76	3.06
MAX6241BESA+-ND	Low-Drift, Low-Noise, 4.096V Precision Voltage Reference* ***NEW!***	8-SOIC	6.31	4.76	3.06
MAX6250ACSA+-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference*	8-SOIC	12.32	9.30	5.47
MAX6250AESA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference	8-SOIC	13.70	10.34	6.64
MAX6250AESA+-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference*	8-SOIC	13.70	10.34	6.64
MAX6250BCSA+-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference*	8-SOIC	5.99	4.52	2.65
MAX6250BEPA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference	8-Dip	6.31	4.76	3.06
MAX6250BESA-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference	8-SOIC	6.31	4.76	3.06
MAX6250BESA+-ND	Low-Drift, Low-Noise, 5.0V Precision Voltage Reference* ***NEW!***	8-SOIC	6.31	4.76	3.06
MAX6301CSA+-ND	5V, Low Power, Micropower, Supervisory Circuit*	8-SOIC	3.82	2.88	1.69
MAX6303CSA-ND	5V, Low Power, Micropower, Supervisory Circuit	8-SOIC	3.82	2.88	1.69
MAX6303CSA+-ND	5V, Low Power, Micropower, Supervisory Circuit*	8-SOIC	3.82	2.88	1.69
MAX6314US46D3-TCT-ND	4.63V Reset Circuit	SOT-143	2.36	1.78	1.56
MAX6314US46D3-TTR-ND	4.63V Reset Circuit	SOT-143	3560.00/2,500		
MAX6314US46D3+TCT-ND	4.63V Reset Circuit* ***NEW!***	SOT-143	2.36	1.78	1.56
MAX6314US46D3+TTR-ND	4.63V Reset Circuit* ***NEW!***	SOT-143	3560.00/2,500		
MAX6315US29D2-TCT-ND	2.93V Open-Drain Reset Circuit	SOT-143	2.36	1.78	1.56
MAX6315US29D2-TTR-ND	2.93V Open-Drain Reset Circuit	SOT-143	3560.00/2,500		
MAX6315US44D1-TCT-ND	4.39V Open-Drain Reset Circuit	SOT-143	2.15	1.62	1.42
MAX6315US44D1-TTR-ND	4.39V Open-Drain Reset Circuit	SOT-143	3240.00/2,500		
MAX6320PUK29CYTCT-ND	2.93V Microprocessor Supervisory Circuit	SOT-23-5	2.76	2.08	1.82
MAX6320PUK29CYTTR-ND	2.93V Microprocessor Supervisory Circuit	SOT-23-5	4160.00/2,500		
MAX6320PUK29CY+TCT-ND	2.93V Microprocessor Supervisory Circuit*	SOT-23-5	2.76	2.08	1.82
MAX6320PUK29CY+TTR-ND	2.93V Microprocessor Supervisory Circuit*	SOT-23-5	4160.00/2,500		
MAX6320PUK46CYTCT-ND	4.63V Microprocessor Supervisory Circuit	SOT-23-5	2.76	2.08	1.82
MAX6320PUK46CYTTR-ND	4.63V Microprocessor Supervisory Circuit	SOT-23-5	4160.00/2,500		
MAX6320PUK46CY+TCT-ND	4.63V Microprocessor Supervisory Circuit*	SOT-23-5	2.76	2.08	1.82
MAX6320PUK46CY+TTR-ND	4.63V Microprocessor Supervisory Circuit*	SOT-23-5	4160.00/2,500		
MAX6336US23D3-TCT-ND	2.3V, Ultra Low Voltage, Low Power, Reset Circuit	SOT-143-4	2.52	1.90	1.67
MAX6336US23D3-TTR-ND	2.3V, Ultra Low Voltage, Low Power, Reset Circuit	SOT-143-4	3800.00/2,500		
MAX6338KUB+-ND	Quad Voltage Monitor*	10-µMAX	6.49	4.90	2.87
MAX6338LUB-ND	Quad Voltage Monitor	10-µMAX	6.49	4.90	2.87
MAX6338LUB+-ND	Quad Voltage Monitor*	10-µMAX	6.49	4.90	2.87
MAX6338OUB-ND	Quad Voltage Monitor	10-µMAX	6.49	4.90	2.87
MAX6338OUB+-ND	Quad Voltage Monitor*	10-µMAX	6.49	4.90	2.87
MAX6348UR46-TCT-ND	4.63V, Ultra Low Power Microprocessor Reset Circuit	SOT-23	2.36	1.78	1.56
MAX6348UR46-TTR-ND	4.63V, Ultra Low Power Microprocessor Reset Circuit	SOT-23	3560.00/2,500		
MAX6348UR46+TCT-ND	4.63V, Ultra Low Power Microprocessor Reset Circuit* ***NEW!***	SOT-23	2.36	1.78	1.56
MAX6348UR46+TTR-ND	4.63V, Ultra Low Power Microprocessor Reset Circuit* ***NEW!***	SOT-23	3560.00/2,500		
MAX6364LUT31+TCT-ND	Low Power Microprocessor Supervisory Circuit*	SOT-23-6	3.58	2.70	2.37
MAX6364LUT31+TTR-ND	Low Power Microprocessor Supervisory Circuit*	SOT-23-6	5400.00/2,500		
MAX6369KA-TCT-ND	Pin-Selectable Watchdog Timer	SOT-23-8	2.33	1.76	1.54
MAX6369KA-TTR-ND	Pin-Selectable Watchdog Timer	SOT-23-8	3520.00/2,500		
MAX6369KA+TCT-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	2.33	1.76	1.54
MAX6369KA+TTR-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	3520.00/2,500		
MAX6373KA-TCT-ND	Pin-Selectable Watchdog Timer	SOT-23-8	2.33	1.76	1.54
MAX6373KA-TTR-ND	Pin-Selectable Watchdog Timer	SOT-23-8	3520.00/2,500		
MAX6373KA+TCT-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	2.33	1.76	1.54
MAX6373KA+TTR-ND	Pin-Selectable Watchdog Timer*	SOT-23-8	3520.00/2,500		
MAX6457UKD3C+TCT-ND	High Voltage, Low Current Voltage Monitor*	SOT-23-5	2.86	2.16	1.89
MAX6457UKD3C+TTR-ND	High Voltage, Low Current Voltage Monitor*	SOT-23-5	4320.00/2,500		
MAX6509HAUK+TCT-ND	Resistor Programmable Temp Switches*	SOT-23-5	2.41	1.82	1.60
MAX6509HAUK+TTR-ND	Resistor Programmable Temp Switches*	SOT-23-5	3640.00/2,500		
MAX6651EEE-ND	SMBus/I2C Compatible Interface	16-QSOP	7.79	5.88	3.38
MAX6651EEE+-ND	SMBus/I2C Compatible Interface*	16-QSOP	7.79	5.88	3.38
MAX6816EUS+TCT-ND	Single CMOS Switch Debouncer, ESD Protected*	SOT-143	2.36	1.78	1.56
MAX6816EUS+TTR-ND	Single CMOS Switch Debouncer, ESD Protected*	SOT-143	3560.00/2,500		
MAX6817EUT+TCT-ND	Dual CMOS Switch Debouncer, ESD Protected*	SOT-23-6	3.52	2.66	2.33
MAX6817EUT+TTR-ND	Dual CMOS Switch Debouncer, ESD Protected*	SOT-23-6	5320.00/2,500		
MAX6818EAP+-ND	Octal, CMOS Switch Debouncer, ESD Protected*	20-SSOP	7.45	5.95	3.97
MAX6902ETA+TCT-ND	SPI-Compatible Real-Time Clock*	8-TDFN	5.35	4.04	3.54
MAX6902ETA+TTR-ND	SPI-Compatible Real-Time Clock*	8-TDFN	8080.00/2,500		
MAX6954AAX-ND	4-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	36-SSOP	24.04	18.14	11.34
MAX6954AAX+-ND	4-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan*	36-SSOP	24.04	18.14	11.34

* ***RoHS Compliant***

(Continued)

MAXIM SPECIALIZED INTEGRATED CIRCUITS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
MAX6954APL-ND	4-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	40-Dip	24.04	18.14	11.34
MAX6955AAX-ND	2-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	36-SSOP	24.04	18.14	11.34
MAX6955AAX+-ND	2-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan*	36-SSOP	24.04	18.14	11.34
MAX6955APL-ND	2-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan	40-Dip	24.04	18.14	11.34
MAX6955APL+-ND	2-Wire Interfaced, 2.7V to 5.5V, LED Display Driver with I/O Expander and Key Scan*	40-Dip	24.04	18.14	11.34
MAX6956ANI-ND	2-Wire Interfaced, 2.5V to 5.5V, 20-Port or 28-Port, LED Display Driver and I/O Expander	28-Dip	8.16	6.16	3.85
MAX6956AAI-ND	2-Wire Interfaced, 2.5V to 5.5V, 20-Port or 28-Port, LED Display Driver and I/O Expander	28-SSOP	8.16	6.16	3.85
MAX6956AAI+-ND	2-Wire Interfaced, 2.5V to 5.5V, 20-Port or 28-Port, LED Display Driver and I/O Expander*	28-SSOP	8.16	6.16	3.85
MAX6957ANI-ND	4-Wire Interfaced, 2.5V to 5.5V, 20-Port and 28-Port, LED Display Driver and I/O Expander	28-Dip	8.16	6.16	3.85
MAX6957AAI-ND	4-Wire Interfaced, 2.5V to 5.5V, 20-Port and 28-Port, LED Display Driver and I/O Expander	28-SSOP	8.16	6.16	3.85
MAX6957AAI+-ND	4-Wire Interfaced, 2.5V to 5.5V, 20-Port and 28-Port, LED Display Driver and I/O Expander*	28-SSOP	8.16	6.16	3.85
MAX7219CNG-ND	Serial Input 8-Digit LED Driver Multiplexed	24-Dip	10.81	8.16	5.44
MAX7219CNG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-Dip	10.81	8.16	5.44
MAX7219CWG-ND	Serial Input 8-Digit LED Driver Multiplexed	24-SOIC	10.81	8.16	5.44
MAX7219CWG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-SOIC	10.81	8.16	5.44
MAX7219ENG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-Dip	14.05	10.60	7.32
MAX7219EWG+-ND	Serial Input 8-Digit LED Driver Multiplexed*	24-SOIC	14.05	10.60	6.21
MAX7221CWG+-ND	Serially Interfaced, 8-Digit LED Display Driver*	24-SOIC	10.81	8.16	5.44
MAX7645BCPP-ND	CMOS 12-Bit Buffered Multiplying DAC	20-Dip	15.77	11.90	7.63
MAX8211CPA-ND	Programmable Voltage Detector, Non-Inverting	8-Dip	3.45	2.60	1.68
MAX8211CPA+-ND	Programmable Voltage Detector, Non-Inverting*	8-Dip	3.45	2.60	1.68
MAX8211CSA+-ND	Programmable Voltage Detector, Non-Inverting*	8-SOIC	3.50	2.64	1.70
MAX8211ESA-ND	Programmable Voltage Detector, Non-Inverting	8-SOIC	5.27	3.98	2.56
MAX8211ESA+-ND	Programmable Voltage Detector, Non-Inverting*	8-SOIC	5.27	3.98	2.56
MAX8212CPA-ND	Programmable Voltage Detector, Inverting	8-Dip	3.45	2.60	1.73
MAX8212CPA+-ND	Programmable Voltage Detector, Inverting* ***NEW!***	8-Dip	3.45	2.60	1.73
MAX8212CSA-ND	Programmable Voltage Detector, Inverting	8-SOIC	3.02	2.28	1.52
MAX8212CSA+-ND	Programmable Voltage Detector, Inverting*	8-SOIC	3.02	2.28	1.52
MAX8213ACPE-ND	Five Universal Voltage Monitors with Open-Drain Outputs	16-Dip	7.23	5.46	3.50
MAX8214ACPE-ND	Five Universal Voltage Monitors with Active Pull-Ups	16-Dip	7.23	5.46	3.50
MAX8869EUE33+-ND	1A, MicroCap, Low Dropout, Linear Regulator*	16-TSSOP-EP	4.56	3.44	2.43
MAX8881EUT50-TCT-ND	12V, Ultra Low IQ, LDO Linear Regulator with POK	SOT-23-6	4.19	3.16	2.77
MAX8881EUT50-TTR-ND	12V, Ultra Low IQ, LDO Linear Regulator with POK	SOT-23-6	6320.00/2,500		
MAX8881EUT50+TCT-ND	12V, Ultra Low IQ, LDO Linear Regulator with POK*	SOT-23-6	4.19	3.16	2.77
MAX8881EUT50+TTR-ND	12V, Ultra Low IQ, LDO Linear Regulator with POK*	SOT-23-6	6320.00/2,500		
MAX9031AUK+TCT-ND	Single Supply Comparator*	SOT-23-5	.87	.66	.58
MAX9031AUK+TTR-ND	Single Supply Comparator*	SOT-23-5	1320.00/2,500		
MAX9144ESD+-ND	40nS, Low Power, Quad, 3V/5V, R/R Comparator*	14-SOIC	3.21	2.73	2.17
MX574AJN-ND	Industry-Standard, Complete 12-Bit ADC	28-Dip	31.72	23.94	17.10
MX574AJN+-ND	Industry-Standard, Complete 12-Bit ADC* ***NEW!***	28-Dip	31.72	23.94	17.10
MX7224KCWN+-ND	CMOS 8-Bit DAC with Output Amp*	18-SOIC	7.34	5.93	4.74
MX7226KN-ND	CMOS Quad, 8-Bit DAC with Volt. Output Amp	20-Dip	27.37	20.66	14.75
MX7226KN+-ND	CMOS Quad, 8-Bit DAC with Volt. Output Amp*	20-Dip	27.37	20.66	14.75
MX7524JN-ND	CMOS 8-Bit Buffer D/A Converter	16-Dip	5.86	4.42	3.15
MX7528JCWP-ND	CMOS Dual D/A Converter 8-Bit Buffered	20-SOIC	8.80	6.64	4.74
MX7528JCWP+-ND	CMOS Dual D/A Converter 8-Bit Buffered*	20-SOIC	8.80	6.64	4.74
MX7533JCWE-ND	CMOS 10-Bit D/A Converter	16-SOIC	6.60	4.98	3.55
MX7548BQ-ND	CMOS 12-Bit Current-Output, Multiplying D/A Converter	20-Dip	23.74	17.92	10.54
MXD1210CSA-ND	Nonvolatile RAM Controller	8-SOIC	5.83	4.40	2.94
MXD1210CSA+-ND	Nonvolatile RAM Controller*	8-SOIC	5.83	4.40	2.94
MAXOP07EP-ND	Low Offset Voltage Op Amp	8-Dip	5.64	4.26	3.05

* ***RoHS Compliant***

DALLAS SEMICONDUCTOR SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS12C887+-ND	Real-Time Clock with RAM, 128-Byte* ***NEW!***	24-Dip	8.96	6.76
DS18B20-ND	Prog. Resolution 1-Wire® Digital Thermometer	TO-92	5.04	3.80
DS18B20+-ND	Prog. Resolution 1-Wire® Digital Thermometer* ***NEW!***	TO-92	5.04	3.80
DS18B20Z+-ND	Prog. Resolution 1-Wire® Digital Thermometer* ***NEW!***	8-SOIC	5.04	3.80
DS18S20-ND	High Precision 1-Wire® Digital Thermometer	TO-92	5.04	3.80
DS18S20+CT-ND	High Precision 1-Wire® Digital Thermometer* ***NEW!***	TO-92	5.04	3.80
DS18S20+TR-ND	High Precision 1-Wire® Digital Thermometer* ***NEW!***	TO-92	5700.00/2,000	
DS18S20Z-ND	High Precision 1-Wire® Digital Thermometer	8-SOIC	5.04	3.80
DS18S20Z+-ND	High Precision 1-Wire® Digital Thermometer* ***NEW!***	8-SOIC	5.04	3.80
DS21Q43AT-ND	5V, Quad E1 Framer	128-TQFP	148.53	112.10
DS21Q352-ND	3.3V, T1 Transceiver	256-BGA	189.13	142.74
DS21Q352N-ND	3.3V, T1 Transceiver, Ind. Temperature	256-BGA	217.51	164.16
DS21S07AE-ND	SCSI Terminator	20-TSSOP	4.11	3.10
DS21T07E-ND	SCSI Terminator	20-TSSOP	3.66	2.76
DS21T09S-ND	Plug and Play SCSI Terminator, 2%	28-SOIC	6.36	4.80
DS32KHZ/DIP-ND	32.768KHz TCXO	14-Dip	10.15	7.66
DS32KHZN/DIP-ND	32.768KHz TCXO, Ind. Temperature	14-Dip	11.69	8.82
DS32KHZ/WBGA/CT-ND	32.768KHz TCXO	36-BGA	10.26	7.74
DS32KHZ/WBGA/TR-ND	32.768KHz TCXO	36-BGA	3412.50/750	
DS56S-ND	Dual 3V/5V, Analog Temperature Sensor	8-SOIC	1.83	1.38
DS75S-ND	2-Wire Digital Temperature Sensor, LM75-Compatible	8-SOIC	2.01	1.52
DS75S+-ND	2-Wire Digital Temperature Sensor, LM75-Compatible* ***NEW!***	8-SOIC	2.01	1.52
DS1004Z-3+-ND	5-Tap High Speed Silicon Delay Line, 3nS Tap-to-Tap* ***NEW!***	8-SOIC	17.44	13.16
DS1023S-25+-ND	8-Bit Programmable Timing Element, .25nS* ***NEW!***	16-SOIC	16.83	12.70
DS1100LZ-20-ND	5-Tap Delay Line, 20nS	8-SOIC	6.97	5.26
DS1100LZ-20+-ND	5-Tap Delay Line, 20nS* ***NEW!***	8-SOIC	6.97	5.26
DS1100LZ-75-ND	5-Tap Delay Line, 75nS	8-SOIC	6.97	5.26
DS1100LZ-100-ND	5-Tap Delay Line, 100nS	8-SOIC	6.97	5.26
DS1100LZ-100+-ND	5-Tap Delay Line, 100nS* ***NEW!***	8-SOIC	6.97	5.26
DS1100M-25-ND	5-Tap Delay Line, 25nS	8-Dip	5.64	4.26
DS1100M-50-ND	5-Tap Delay Line, 50nS	8-Dip	5.64	4.26
DS1100Z-20-ND	5-Tap Delay Line, 20nS	8-SOIC	6.33	4.78
DS1100Z-20+-ND	5-Tap Delay Line, 20nS* ***NEW!***	8-SOIC	6.33	4.78
DS1100Z-35-ND	5-Tap Delay Line, 35nS	8-SOIC	6.33	4.78
DS1100Z-40-ND	5-Tap Delay Line, 40nS	8-SOIC	6.33	4.78
DS1100Z-50+-ND	5-Tap Delay Line, 50nS* ***NEW!***	8-SOIC	6.33	4.78
DS1100Z-100-ND	5-Tap Delay Line, 100nS	8-SOIC	6.33	4.78
DS1100Z-100+-ND	5-Tap Delay Line, 100nS* ***NEW!***	8-SOIC	6.33	4.78
DS1100Z-200-ND	5-Tap Delay Line, 200nS	8-SOIC	6.33	4.78
DS1100Z-250-ND	5-Tap Delay Line, 250nS	8-SOIC	6.33	4.78
DS1210+-ND	Nonvolatile Controller Chip* ***NEW!***	8-Dip	4.85	3.66
DS1210N-ND	Nonvolatile Controller Chip, Ind. Temperature	8-Dip	5.70	4.30
DS1210S+-ND	Nonvolatile Controller Chip* ***NEW!***	16-SOIC	5.22	3.94
DS1210SN-ND	Nonvolatile Controller Chip, Ind. Temperature	16-SOIC	6.41	4.84
DS1211-ND	Nonvolatile Controller x 8 Chip	20-Dip	33.52	25.30
DS1211S-ND	Nonvolatile Controller x 8 Chip	20-SOIC	37.76	28.50
DS1211S+-ND	Nonvolatile Controller x 8 Chip* ***NEW!***	20-SOIC	37.76	28.50
DS1213B-ND	SmartSocket 16K/64K	28-Dip	22.66	17.10
DS1213C-ND	SmartSocket 256K	28-Dip	22.66	17.10
DS1213D-ND	SmartSocket 256K/1M	32-Dip	26.42	19.94
DS1216C-ND	SmartWatch/RAM, 64K/256K 5V	28-Dip	38.21	28.84
DS1216D-ND	SmartWatch/RAM, 256K/1M 5V	32-Dip	41.90	31.62
DS1216E-ND	SmartWatch/ROM, 64K, 256K, 1M 5V	28-Dip	38.21	28.84
DS1218S-ND	Nonvolatile Controller Chip	8-SOIC	13.20	9.96
DS1218S+-ND	Nonvolatile Controller Chip* ***NEW!***	8-SOIC	13.20	9.96
DS1220AB-120-ND	Nonvolatile SRAM, 16K, 5%, 120nS	24-Dip	16.17	12.20
DS1220AB-150-ND	Nonvolatile SRAM, 16K, 5%, 150nS	24-Dip	15.77	11.90
DS1220AB-200-ND	Nonvolatile SRAM, 16K, 5%, 200nS	24-Dip	13.91	10.50
DS1220AD-120-ND	Nonvolatile SRAM, 16K, 10%, 120nS	24-Dip	16.17	12.20
DS1225AB-85-ND	Nonvolatile SRAM, 64K, 5%, 85nS	28-Dip	20.19	15.24
DS1225AB-150-ND	Nonvolatile SRAM, 64K, 5%, 150nS	28-Dip	19.72	14.88
DS1225AB-200-ND	Nonvolatile SRAM, 64K, 5%, 200nS	28-Dip	14.71	11.10
DS1225AD-85-ND	Nonvolatile SRAM, 64K, 10%, 85nS	28-Dip	20.19	15.24
DS1225AD-200-ND	Nonvolatile SRAM, 64K, 10%, 200nS	28-Dip	19.72	14.88
DS1230AB-70-ND	Nonvolatile SRAM, 256K, 5%, 70nS	28-Dip	27.27	20.58
DS1230AB-100-ND	Nonvolatile SRAM, 256K, 5%, 100nS	28-Dip	26.63	20.10
DS1230AB-120-ND	Nonvolatile SRAM, 256K, 5%, 120nS	28-Dip	26.63	20.10
DS1230AB-200-ND	Nonvolatile SRAM, 256K, 5%, 200nS	28-Dip	26.63	20.10
DS1230Y-70-ND	Nonvolatile SRAM, 256K, 10%, 70nS	28-Dip	27.27	20.58
DS1230Y-70IND-ND	Nonvolatile SRAM, 256K, 10%, 70nS, Ind. Temperature	28-Dip	22.13	16.70
DS1230Y-100-ND	Nonvolatile SRAM, 256K, 10%, 100nS	28-Dip	20.80	15.70
DS1230Y-120-ND	Nonvolatile SRAM, 256K, 10%, 120nS	28-Dip	20.80	15.70
DS1230Y-200-ND	Nonvolatile SRAM, 256K, 10%, 200nS	28-Dip	20.80	15.70
DS1231S-20+-ND	Power Monitor Chip, 20nS* ***NEW!***	16-SOIC	10.07	7.60
DS1231-20N-ND	Power Monitor Chip, 20nS, Ind. Temperature	8-Dip	9.54	7.20
DS1231-35-ND	Power Monitor Chip, 35nS	8-Dip	8.29	6.26
DS1232-ND	MicroMonitor Chip	8-Dip	2.09	1.58
DS1232+-ND	MicroMonitor Chip* ***NEW!***	8-Dip	2.09	1.58
DS1232N-ND	MicroMonitor Chip, Ind. Temperature	8-Dip	2.60	1.96
DS1232N+-ND	MicroMonitor Chip, Ind. Temperature* ***NEW!***	8-Dip	2.60	1.96
DS1232LP+-ND	Low Power MicroMonitor Chip* ***NEW!***	8-Dip	2.25	1.70
DS1232LPS-ND	Low Power MicroMonitor Chip	16-SOIC	2.76	2.08
DS1232LPS-2+-ND	Low Power MicroMonitor Chip* ***NEW!***	8-SOIC	2.25	1.70
DS1232LPSN-2-ND	Low Power MicroMonitor Chip, Ind. Temperature	8-SOIC	2.60	1.96
DS1232LPSN-2+-ND	Low Power MicroMonitor Chip, Ind. Temperature* ***NEW!***	8-SOIC	2.60	1.96
DS1232S-ND	MicroMonitor Chip	16-SOIC	2.76	2.08
DS1232S+-ND	MicroMonitor Chip* ***NEW!***	16-SOIC	2.76	2.08
DS1232SN-ND	MicroMonitor Chip, Ind. Temperature	16-SOIC	3.18	2.40
DS1233-5+-ND	5V, EconoReset, 5%* ***NEW!***	TO-92	1.38	1.04
DS1233-10-ND	5V, EconoReset, 10%	TO-92	1.38	1.04
DS1233-10+-ND	5V, EconoReset, 10%* ***NEW!***	TO-92	1.38	1.04
DS1233A-10-ND	3.3V, EconoReset, 10%	TO-92	1.38	1.04
DS1233A-10+-ND	3.3V, EconoReset, 10%* ***NEW!***	TO-92	1.30	.98
DS1233A-15-ND	3.3V, EconoReset, 15%	TO-92	1.38	1.04
DS1233A-15+-ND	3.3V, EconoReset, 15%* ***NEW!***	TO-92	1.38	1.04
DS1233AZ-10-ND	3.3V, EconoReset, 10%	SOT-223	2.25	1.70
DS1233AZ-10+-ND	3.3V, EconoReset, 10%* ***NEW!***	SOT-223	2.25	1.70
DS1233AZ-15-ND	3.3V, EconoReset, 15%	SOT-223	2.41	1.82
DS1233AZ-15+-ND	3.3V, EconoReset, 15%* ***NEW!***	SOT-223	2.41	1.82
DS1233D-5+CT-ND	5V, EconoReset, No Pushbutton Reset, 5%* ***NEW!***	TO-92	1.46	1.10
DS1233D-5+TR-ND	5V, EconoReset, No Pushbutton Reset, 5%* ***NEW!***	TO-92	1650.00/2,000	
DS1233D-10+CT-ND	5V, EconoReset, No Pushbutton Reset, 10%* ***NEW!***	TO-92	1.46	1.10
DS1233D-10+TR-ND	5V, EconoReset, No Pushbutton Reset, 10%* ***NEW!***	TO-92	1650.00/2,000	
DS1233D-15-ND	5V, EconoReset, No Pushbutton Reset, 15%	TO-92	1.38	1.04
DS1233DZ-5+CT-ND	5V, EconoReset, No Pushbutton Reset, 5%* ***NEW!***	SOT-223	2.62	1.98
DS1233DZ-5+TR-ND	5V, EconoReset, No Pushbutton Reset, 5%* ***NEW!***	SOT-223	3712.50/2,500	
DS1233DZ-10+CT-ND	5V, EconoReset, No Pushbutton Reset, 10%* ***NEW!***	SOT-223	2.09	1.58
DS1233DZ-10+TR-ND	5V, EconoReset, No Pushbutton Reset, 10%* ***NEW!***	SOT-223	2962.50/2,500	
DS1233DZ-15-ND	5V, EconoReset, No Pushbutton Reset, 15%	SOT-223	2.41	1.82
DS1233M-55-ND	5V, EconoReset	TO-92	1.38	1.04
DS1233MS-3-ND	3.3V, EconoReset	8-SOIC	2.89	2.18
DS1233MS-5-ND	5V, EconoReset	8-SOIC	2.89	2.18
DS1233Z-5+-ND	EconoReset, 5%* ***NEW!***	SOT-223	2.25	1.70
DS1233Z-10+-ND	EconoReset, 10%* ***NEW!***	SOT-223	2.41	1.82
DS1233Z-15-ND	EconoReset, 15%	SOT-223	2.41	1.82
DS1233Z-15+-ND	EconoReset, 15%* ***NEW!***	SOT-223	2.41	1.82
DS1236-5-ND	MicroManager™ Chip, 5%	16-Dip	10.57	7.98
DS1236-10-ND	MicroManager™ Chip, 10%	16-Dip	10.57	7.98
DS1236AS-5-ND	MicroManager™ Chip, 5%	16-SOIC	12.35	9.32

****RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS1236AS-10-ND	MicroManager™ Chip, 10%	16-SOIC	12.35	9.32
DS1236S-10-ND	MicroManager™ Chip, 10%	16-SOIC	12.35	9.32
DS1238-10-ND	MicroManager™ Chip, 10%	16-Dip	10.57	7.98
DS1238AS-5-ND	MicroManager™ Chip, 5%	16-SOIC	12.35	9.32
DS1239S-5-ND	MicroManager™ Chip, 5%	16-SOIC	12.35	9.32
DS1243Y-120-ND	Nonvolatile SRAM with Phantom Clock, 64K, 120nS	28-Dip	44.31	33.44
DS1243Y-120+-ND	Nonvolatile SRAM with Phantom Clock, 64K, 120nS* ***NEW!***	28-Dip	28.81	21.74
DS1244Y-70+-ND	Nonvolatile SRAM with Phantom Clock, 256K, 70nS* ***NEW!***	28-Dip	33.73	25.46
DS1245AB-120-ND	Nonvolatile SRAM, 1024K, 5%, 120nS	32-Dip	37.44	28.26
DS1245Y-100-ND	Nonvolatile SRAM, 1024K, 10%, 100nS	32-Dip	37.44	28.26
DS1245Y-120-ND	Nonvolatile SRAM, 1024K, 10%, 120nS	32-Dip	37.44	28.26
DS1249Y-70-ND	Nonvolatile SRAM, 2048K, 10%, 70nS	32-Dip	67.68	51.08
DS1250WP-150-ND	3.3V, Nonvolatile SRAM, 4096K, 150nS	34-PCM	110.32	83.26
DS1250Y-100-ND	Nonvolatile SRAM, 4096K, 100nS	32-Dip	117.90	88.98
DS1259-ND	Battery Manager Chip	16-Dip	11.82	8.92
DS1259S-ND	Battery Manager Chip	16-SOIC	14.20	10.72
DS1260-100-ND	Smart Battery, 1000MAH at 3V	16-Dip	24.17	18.24
DS1267-010-ND	Dual Digital Potentiometer Chip, 10K	14-Dip	8.32	6.28
DS1267-010+-ND	Dual Digital Potentiometer Chip, 10K* ***NEW!***	14-Dip	8.32	6.28
DS1267-050-ND	Dual Digital Potentiometer Chip, 50K	14-Dip	8.32	6.28
DS1267-100-ND	Dual Digital Potentiometer Chip, 100K	14-Dip	8.32	6.28
DS1267-100+-ND	Dual Digital Potentiometer Chip, 100K* ***NEW!***	14-Dip	8.32	6.28
DS1267E-10-ND	Dual Digital Potentiometer Chip, 10K	20-TSSOP	10.34	7.80
DS1267E-10+-ND	Dual Digital Potentiometer Chip, 10K* ***NEW!***	20-TSSOP	10.34	7.80
DS1267E-100-ND	Dual Digital Potentiometer Chip, 100K	20-TSSOP	10.34	7.80
DS1267S-010-ND	Dual Digital Potentiometer Chip, 10K	16-SOIC	9.57	7.22
DS1267S-010+-ND	Dual Digital Potentiometer Chip, 10K* ***NEW!***	16-SOIC	9.57	7.22
DS1267S-050-ND	Dual Digital Potentiometer Chip, 50K	16-SOIC	9.57	7.22
DS1267S-050+-ND	Dual Digital Potentiometer Chip, 50K* ***NEW!***	16-SOIC	9.57	7.22
DS1267S-100-ND	Dual Digital Potentiometer Chip, 100K	16-SOIC	9.57	7.22
DS1267S-100+-ND	Dual Digital Potentiometer Chip, 100K* ***NEW!***	16-SOIC	9.57	7.22
DS1283S-ND	Watchdog Timekeeper Chip	28-SOIC	11.00	8.30
DS1283SN-ND	Watchdog Timekeeper Chip, Ind. Temperature	28-SOIC	12.67	9.56
DS1284-ND	Watchdog Timekeeper Chip	28-Dip	13.14	9.92
DS1284+-ND	Watchdog Timekeeper Chip* ***NEW!***	28-Dip	13.14	9.92
DS1284Q+-ND	Watchdog Timekeeper Chip* ***NEW!***	28-PLCC	14.10	10.64
DS1284QN-ND	Watchdog Timekeeper Chip, Ind. Temperature	28-PLCC	14.60	11.02
DS1286+-ND	Watchdog Timekeeper Chip* ***NEW!***	28-Dip	26.31	19.86
DS1302-ND	Trickle Charge Timekeeping Chip, 300mil.	8-Dip	3.31	2.50
DS1302+-ND	Trickle Charge Timekeeping Chip, 300mil.* ***NEW!***	8-Dip	3.31	2.50
DS1302N-ND	Trickle Charge Timekeeping Chip, Ind. Temperature	8-Dip	4.13	3.12
DS1302N+-ND	Trickle Charge Timekeeping Chip, Ind. Temperature* ***NEW!***	8-Dip	4.13	3.12
DS1302S+-ND	Trickle Charge Timekeeping Chip, 300mil*	8-SOIC	2.26	2.19
DS1302S-16-ND	Trickle Charge Timekeeping Chip, 300mil.	16-SOIC	6.81	5.14
DS1302SN+-ND	Trickle Charge Timekeeping Chip, Ind. Temperature* ***NEW!***	8-SOIC	4.13	3.12
DS1302Z-ND	Trickle Charge Timekeeping Chip, 150mil.	8-SOIC	3.31	2.50
DS1302Z+-ND	Trickle Charge Timekeeping Chip, 150mil* ***NEW!***	8-SOIC	3.31	2.50
DS1302ZN+-ND	Trickle Charge Timekeeping Chip, Ind. Temperature*	8-SOIC	2.50	2.42
DS1305+-ND	Serial Alarm Real-Time Clock, 300mil.*	16-Dip	5.06	3.82
DS1305E+-ND	Serial Alarm Real-Time Clock, 173mil.*	20-TSSOP	5.06	3.82
DS1305EN-ND	Serial Alarm Real-Time Clock, Ind. Temperature	20-TSSOP	5.59	4.22
DS1305EN+-ND	Serial Alarm Real-Time Clock, Ind. Temperature*	20-TSSOP	5.57	4.20
DS1306E-ND	Serial Alarm Real-Time Clock, 4.4mil.	20-TSSOP	5.06	3.82
DS1306E+-ND	Serial Alarm Real-Time Clock, 4.4mil.* ***NEW!***	20-TSSOP	5.06	3.82
DS1306EN+-ND	Serial Alarm Real-Time Clock, Ind. Temperature* ***NEW!***	20-TSSOP	5.59	4.22
DS1307-ND	Serial Real-Time Clock, 64 x 8, 100mil.	8-Dip	3.74	2.82
DS1307+-ND	Serial Real-Time Clock, 64 x 8, 100mil.* ***NEW!***	8-Dip	3.74	2.82
DS1307Z-ND	Serial Real-Time Clock, 64 x 8, 150mil.	8-SOIC	3.29	2.48
DS1307Z+-ND	Serial Real-Time Clock, 64 x 8, 150mil.* ***NEW!***	8-SOIC	3.29	2.48
DS1307ZN-ND	Serial Real-Time Clock, 64 x 8, Ind. Temperature	8-SOIC	4.13	3.12
DS1307ZN+-ND	Serial Real-Time Clock, 64 x 8, Ind. Temperature* ***NEW!***	8-SOIC	4.13	3.12
DS1312S-ND	Nonvolatile Controller with Lithium Battery Monitor, 300mil.	16-SOIC	15.32	11.56
DS1312S+-ND	Nonvolatile Controller with Lithium Battery Monitor, 300mil* ***NEW!***	16-SOIC	15.32	11.56
DS1312S-2-ND	Nonvolatile Controller with Lithium Battery Monitor, 150mil.	8-SOIC	12.19	9.20
DS1312S-2+-ND	Nonvolatile Controller with Lithium Battery Monitor, 150mil* ***NEW!***	8-SOIC	12.19	9.20
DS1314S-ND	Nonvolatile Controller w/Lithium Battery Monitor, 3V, 300mil.	16-SOIC	12.51	9.44
DS1314S+-ND	Nonvolatile Controller with Lithium Battery Monitor, 3V, 300mil* ***NEW!***	16-SOIC	12.51	9.44
DS1314S-2-ND	Nonvolatile Controller w/Lithium Battery Monitor, 3V, 150mil.	8-SOIC	16.01	12.08
DS1314S-2+-ND	Nonvolatile Controller with Lithium Battery Monitor, 3V, 150mil* ***NEW!***	8-SOIC	16.01	12.08
DS1315-5-ND	5V, Phantom Time Chip, 300mil.	16-Dip	15.61	11.78
DS1315-5+-ND	5V, Phantom Time Chip, 300mil* ***NEW!***	16-Dip	15.61	11.78
DS1315EN-33-ND	3.3V, Phantom Time Chip, Ind. Temperature	20-TSSOP	20.51	15.48
DS1315S-5-ND	5V, Phantom Time Chip, 300mil.	16-SOIC	18.13	13.68
DS1315S-5+-ND	5V, Phantom Time Chip, 300mil* ***NEW!***	16-SOIC	18.13	13.68
DS1315SN-5-ND	5V, Phantom Time Chip, Ind. Temp. +B200	16-SOIC	20.51	15.48
DS1315SN-5+-ND	5V, Phantom Time Chip, Ind. Temp. +B200* ***NEW!***	16-SOIC	20.51	15.48
DS1321-ND	Flexible Nonvolatile Controller w/Lithium Battery Monitor, 5V	16-Dip	10.15	7.66
DS1321S+-ND	Flexible Nonvolatile Controller w/Lithium Battery Monitor, 5V* ***NEW!***	16-SOIC	10.15	7.66
DS1345WP-150-ND	3.3V, Nonvolatile SRAM with Battery Monitor, 1024K	34-PCM	32.86	24.80
DS1384FP-12-ND	Watchdog Timekeeping Controller, 120nS	44-PQFP	17.70	13.36
DS1386-32-120-ND	RAMified Watchdog Timekeeper, 256K	32-Dip	52.71	39.78
DS1386-32-120+-ND	RAMified Watchdog Timekeeper, 256K* ***NEW!***	32-Dip	52.71	39.78
DS1486-120+-ND	RAMified Watchdog Timekeeper, 1024K* ***NEW!***	32-Dip	64.79	48.90
DS1501WE-ND	3.3V, Y2KC Watchdog Real-Time Clock	28-TSOP	12.08	9.12
DS1501WE+-ND	3.3V, Y2KC Watchdog Real-Time Clock* ***NEW!***	28-TSOP	12.08	9.12
DS1501WEN-ND	3.3V, Y2KC Watchdog Real-Time Clock, Ind. Temp.	28-TSOP	13.89	10.48
DS1501WEN+-ND	3.3V, Y2KC Watchdog Real-Time Clock, Ind. Temp.* ***NEW!***	28-TSOP	13.89	10.48
DS1511W-ND	3.3V, Y2KC Watchdog Real-Time Clock	28-Dip	20.86	15.74
DS1511W+-ND	3.3V, Y2KC Watchdog Real-Time Clock* ***NEW!***	28-Dip	20.86	15.74
DS1602-ND	Elapsed Time Counter	8-Dip	5.19	3.92

Digi-Key Part No.	Description	Pkg.	Price Each★	
			1	25
DS1602+-ND	Elapsed Time Counter* ***NEW!***	8-Dip	5.19	3.92
DS1602S+-ND	Elapsed Time Counter* ***NEW!***	8-SOIC	5.91	4.46
DS1603+-ND	Elapsed Time Counter Module* ***NEW!***	7-Sip	14.20	10.72
DS1609S-50-ND	Dual Port RAM, 50nS	24-SOIC	8.82	6.66
DS1609S-50+-ND	Dual Port RAM, 50nS* ***NEW!***	24-SOIC	8.82	6.66
DS1620-ND	Digital Thermometer and Thermostat, 300mil	8-Dip	6.97	5.26
DS1620+-ND	Digital Thermometer and Thermostat, 300mil.* ***NEW!***	8-Dip	6.97	5.26
DS1620S-ND	Digital Thermometer and Thermostat, 208mil	8-SOIC	6.97	5.26
DS1620S+-ND	Digital Thermometer and Thermostat, 208mil.* ***NEW!***	8-SOIC	6.97	5.26
DS1621-ND	Digital Thermometer and Thermostat, 300mil	8-Dip	4.61	3.48
DS1621+-ND	Digital Thermometer and Thermostat, 300mi.* ***NEW!***	8-Dip	4.61	3.48
DS1621S-ND	Digital Thermometer and Thermostat, 150mil	8-SOIC	4.61	3.48
DS1621S+-ND	Digital Thermometer and Thermostat, 150mi.* ***NEW!***	8-SOIC	4.61	3.48
DS1624-ND	Digital Thermometer and Memory, 300mil	8-Dip	9.04	6.82
DS1624+-ND	Digital Thermometer and Memory, 300mil.* ***NEW!***	8-Dip	9.04	6.82
DS1624S-ND	Digital Thermometer and Memory, 208mil	8-SOIC	9.04	6.82
DS1624S+-ND	Digital Thermometer and Memory, 208mil.* ***NEW!***	8-SOIC	9.04	6.82
DS1629S-ND	2-Wire Digital Thermometer and Real-Time Clock, 150mil.	8-SOIC	7.76	5.86
DS1629S+-ND	2-Wire Digital Thermometer and Real-Time Clock, 150mil.* ***NEW!***	8-SOIC	7.76	5.86
DS1631U+-ND	High Precision Digital Thermometer and Thermostat*	8-MSOP	2.76	2.66
DS1631Z+-ND	High Precision Digital Thermometer and Thermostat*	8-SOIC	2.76	2.66
DS1642-100-ND	Nonvolatile Timekeeping RAM, 100nS	24-Dip	24.06	18.16
DS1642-100+-ND	Nonvolatile Timekeeping RAM, 100nS* ***NEW!***	24-Dip	24.06	18.16
DS1643-100+-ND	Nonvolatile Timekeeping RAM, 100nS, 700mil.* ***NEW!***	28-Dip	25.04	18.90
DS1644-120+-ND	Nonvolatile Timekeeping RAM, 120nS* ***NEW!***	28-Dip	29.23	22.06
DS1644P-120-ND	Nonvolatile Timekeeping RAM, 120nS	34-PCM▲	35.96	27.14
DS1644P-120+-ND	Nonvolatile Timekeeping RAM, 120nS* ***NEW!***	34-PCM▲	26.00	19.62
DS1646-120-ND	Nonvolatile Timekeeping RAM, 120nS	32-Dip	54.93	41.46
DS1646-120+-ND	Nonvolatile Timekeeping RAM, 120nS* ***NEW!***	32-Dip	41.29	31.16
DS1646P-120+-ND	Nonvolatile Timekeeping RAM+B228, 120nS* ***NEW!***	34-PCM▲	36.68	27.68
DS1666S-10-ND	Audio Digital Resistor	16-SOIC	4.72	3.56
DS1666S-10+-ND	Audio Digital Resistor* ***NEW!***	16-SOIC	4.72	3.56
DS1669-10-ND	Dallastat™ Electronic Digital Rheostat, 10K	8-Dip	6.81	5.14
DS1669-100-ND	Dallastat™ Electronic Digital Rheostat, 100K	8-Dip	6.81	5.14
DS1669S-10+-ND	Dallastat™ Electronic Digital Rheostat, 10K* ***NEW!***	8-SOIC	7.18	5.42
DS1669S-50-ND	Dallastat™ Electronic Digital Rheostat, 50K	8-SOIC	7.18	5.42
DS1669S-100-ND	Dallastat™ Electronic Digital Rheostat, 100K	8-SOIC	7.18	5.42
DS1669S-100+-ND	Dallastat™ Electronic Digital Rheostat, 100K* ***NEW!***	8-SOIC	7.18	5.42
DS1670E+-ND	Portable System Controller, 4.4mm*	20-TSSOP	6.50	6.27
DS1672S-33-ND	3.3V, Serial Timekeeping Chip	8-SOIC	3.07	2.32
DS1672S-33+-ND	3.3V, Serial Timekeeping Chip* ***NEW!***	8-SOIC	3.07	2.32
DS1682S-ND	Total-Elapsed-Time Recorder with Alarm	8-SOIC	4.96	3.74
DS1682S+-ND	Total-Elapsed-Time Recorder with Alarm* ***NEW!***	8-SOIC	4.96	3.74
DS1685-5-ND	5V, Real-Time Clock	24-Dip	6.07	4.58
DS1685E-3-ND	3V/5V, Real-Time Clock	24-TSSOP	6.44	4.86
DS1685QN-5-ND	5V, Real-Time Clock, Ind. Temperature	28-PLCC	7.90	5.96
DS1685S-5+-ND	5V, Real-Time Clock* ***NEW!***	24-SOIC	6.41	4.84
DS1687-5-ND	5V, Real-Time Clock	24-Dip	9.38	7.08
DS1687-5+-ND	5V, Real-Time Clock* ***NEW!***	24-Dip	9.38	7.08
DS1689S+-ND	3V/5V, Serialized Real-Time Clock with NV RAM Control* ***NEW!***	28-SOIC	9.38	7.08
DS1693-ND	3V/5V, Serialized Real-Time Clock Module with NV RAM Control	28-Dip	19.82	14.96
DS1693+-ND	3V/5V, Serialized Real-Time Clock Module with NV RAM Control* ***NEW!***	28-Dip	19.82	14.96
DS1705EPA-ND	5V, MicroMonitor, 5%	8-Dip	2.25	1.70
DS1705ESA-ND	5V, MicroMonitor, 10%	8-SOIC	2.25	1.70
DS1705ESA+-ND	5V, MicroMonitor, 10%* ***NEW!***	8-SOIC	2.25	1.70
DS1706ESA-ND	5V, MicroMonitor, 10%	8-SOIC	2.25	1.70
DS1706LEPA-ND	5V, MicroMonitor, 5%	8-Dip	2.25	1.70
DS1706LESA-ND	5V, MicroMonitor, 5%	8-SOIC	2.25	1.70
DS1706SESA+-ND	3.3V, MicroMonitor, 10%* ***NEW!***	8-SOIC	2.25	1.70
DS1706TESA-ND	3.3V, MicroMonitor, 5%	8-SOIC	2.25	1.70
DS1706TESA+-ND	3.3V, MicroMonitor, 5%* ***NEW!***	8-SOIC	2.25	1.70
DS1707ESA-ND	5V, MicroMonitor, 5%	8-SOIC	2.04	1.54
DS1707ESA+-ND	5V, MicroMonitor, 5%* ***NEW!***	8-SOIC	2.04	1.54
DS1708ESA+-ND	5V, MicroMonitor, 5%* ***NEW!***	8-SOIC	2.25	1.70
DS1708SESA-ND	3.3V, MicroMonitor, 10%	8-SOIC	2.25	1.70
DS1708SESA+-ND	3.3V, MicroMonitor, 10%* ***NEW!***	8-SOIC	2.25	1.70
DS1708TESA-ND	3.3V, MicroMonitor, 5%	8-SOIC	2.25	1.70
DS1708TESA+-ND	3.3V, MicroMonitor, 5%* ***NEW!***	8-SOIC	2.25	1.70
DS1721S+CT-ND	2-Wire Digital Thermometer and Thermostat* ***NEW!***	8-SOIC	3.87	2.92
DS1721S+TR-ND	2-Wire Digital Thermometer and Thermostat* ***NEW!***	8-SOIC	5475.00/2,500	
DS1721U+-ND	2-Wire Digital Thermometer and Thermostat* ***NEW!***	8-MSOP	3.87	2.92
DS1722S-ND	2-Wire Digital Thermometer and Thermostat	8-SOIC	2.60	1.96
DS1722S+CT-ND	2-Wire Digital Thermometer and Thermostat* ***NEW!***	8-SOIC	2.60	1.96
DS1722S+TR-ND	2-Wire Digital Thermometer and Thermostat* ***NEW!***	8-SOIC	3675.00/2,500	
DS1722U-ND	2-Wire Digital Thermometer and Thermostat	8-MSOP	2.65	2.00
DS1722U+-ND	2-Wire Digital Thermometer and Thermostat* ***NEW!***	8-MSOP	2.65	2.00
DS1742W-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS* ***NEW!***	24-Dip	25.55	19.28
DS1742W-150-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 150nS	24-Dip	24.27	18.32
DS1743-70-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS	28-Dip	26.77	20.20
DS1743-100-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 100nS	28-Dip	25.41	19.18
DS1743P-100-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 100nS	34-PCM▲	22.60	17.06
DS1743WP-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS* ***NEW!***	34-PCM▲	31.01	23.40
DS1744-70-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS	28-Dip	48.28	36.44
DS1744-70+-ND	5V, Y2KC Nonvolatile Timekeeping RAM, 70nS* ***NEW!***	28-Dip	29.23	22.06
DS1746WP-120-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS	34-PCM▲	52.50	39.62
DS1746WP-120+-ND	3.3V, Y2KC Nonvolatile Timekeeping RAM, 120nS*	34-PCM▲	36.68	27.68
DS1780E-ND	CPU Peripheral Monitor	24-TSSOP	5.04	3.80

▲DS9034PCX Powercap required; order DS9034PCX-ND   * ***RoHS Compliant***   *(Continued)*

SPECIALIZED INTEGRATED CIRCUITS *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25
DS1780E+-ND	CPU Peripheral Monitor* ***NEW!***	24-TSSOP	5.04	3.80
DS1801E-014+-ND	Dual Audio Taper Potentiometer* ***NEW!***	14-TSSOP	7.50	5.66
DS1803E-010-ND	Addressable Dual Digital Potentiometer	14-TSSOP	6.86	5.18
DS1803E-010+-ND	Addressable Dual Digital Potentiometer* ***NEW!***	14-TSSOP	6.86	5.18
DS1803Z-010-ND	Addressable Dual Digital Pot., 10K, 150mil.	16-SOIC	6.39	4.82
DS1803Z-010+-ND	Addressable Dual Digital Pot., 10K, 150mil* ***NEW!***	16-SOIC	6.39	4.82
DS1803Z-050-ND	Addressable Dual Digital Pot., 50K, 150mil.	16-SOIC	6.39	4.82
DS1803Z-050+-ND	Addressable Dual Digital Pot., 50K, 150mil* ***NEW!***	16-SOIC	6.39	4.82
DS1803Z-100-ND	Addressable Dual Digital Pot., 100K, 150mil.	16-SOIC	6.39	4.82
DS1803Z-100+-ND	Addressable Dual Digital Pot., 100K, 150mil* ***NEW!***	16-SOIC	6.39	4.82
DS1804-010-ND	Nonvolatile Trimmer Potentiometer, 10K, 300mil.	8-Dip	3.10	2.34
DS1804-100-ND	Nonvolatile Trimmer Potentiometer, 100K, 300mil.	8-Dip	3.10	2.34
DS1804Z-010-ND	Nonvolatile Trimmer Potentiometer, 10K, 150mil.	8-SOIC	3.23	2.44
DS1804Z-010+-ND	Nonvolatile Trimmer Potentiometer, 10K, 150mil.* ***NEW!***	8-SOIC	3.23	2.44
DS1804Z-050-ND	Nonvolatile Trimmer Potentiometer, 50K, 150mil.	8-SOIC	3.23	2.44
DS1804Z-050+-ND	Nonvolatile Trimmer Potentiometer, 50K, 150mil.* ***NEW!***	8-SOIC	3.23	2.44
DS1804Z-100-ND	Nonvolatile Trimmer Potentiometer, 100K, 150mil.	8-SOIC	3.23	2.44
DS1804Z-100+-ND	Nonvolatile Trimmer Potentiometer, 100K, 150mil.* ***NEW!***	8-SOIC	3.23	2.44
DS1806E-010+-ND	Digital Sextet Potentiometer, 10K*	20-TSSOP	8.32	8.03
DS1806E-050-ND	Digital Sextet Potentiometer, 50K	20-TSSOP	12.08	9.12
DS1806E-050+-ND	Digital Sextet Potentiometer, 50K* ***NEW!***	20-TSSOP	12.08	9.12
DS1810-5-ND	5V, EconoReset with Push-Pull Output, 5%	TO-92	1.11	.84
DS1810-5+CT-ND	5V, EconoReset with Push-Pull Output, 5%* ***NEW!***	TO-92	1.19	.90
DS1810-5+TR-ND	5V, EconoReset with Push-Pull Output, 5%* ***NEW!***	TO-92	1350.00/2,000	
DS1810-10-ND	5V, EconoReset with Push-Pull Output, 10%	TO-92	1.11	.84
DS1811-5-ND	5V, EconoReset with Open Drain Output, 5%	TO-92	1.11	.84
DS1811-5+CT-ND	5V, EconoReset with Open Drain Output, 5%* ***NEW!***	TO-92	1.19	.90
DS1811-5+TR-ND	5V, EconoReset with Open Drain Output, 5%* ***NEW!***	TO-92	1350.00/2,000	
DS1811-10-ND	5V, EconoReset with Open Drain Output, 10%	TO-92	1.11	.84
DS1811-10+CT-ND	5V, EconoReset with Open Drain Output, 10%* ***NEW!***	TO-92	.98	.74
DS1811-10+TR-ND	5V, EconoReset with Open Drain Output, 10%* ***NEW!***	TO-92	1110.00/2,000	
DS1811-15-ND	5V, EconoReset with Open Drain Output, 15%	TO-92	1.11	.84
DS1811R-5+CT-ND	5V, EconoReset with Open Drain Output, 5%*	SOT-23	1.03	.78
DS1811R-5+TR-ND	5V, EconoReset with Open Drain Output, 5%*	SOT-23	1755.00/3,000	
DS1811R-10+CT-ND	5V, EconoReset with Open Drain Output, 10%*	SOT-23	.80	.60
DS1811R-10+TR-ND	5V, EconoReset with Open Drain Output, 10%*	SOT-23	1350.00/3,000	
DS1812-5-ND	5V, EconoReset with Active High Push-Pull Output, 5%	TO-92	1.11	.84
DS1812-5+CT-ND	5V, EconoReset with Active High Push-Pull Output, 5%* ***NEW!***	TO-92	1.19	.90
DS1812-5+TR-ND	5V, EconoReset with Active High Push-Pull Output, 5%* ***NEW!***	TO-92	1350.00/2,000	
DS1812-10-ND	5V, EconoReset with Active High Push-Pull Output, 10%	TO-92	1.11	.84
DS1812-10+CT-ND	5V, EconoReset with Active High Push-Pull Output, 10%* ***NEW!***	TO-92	1.19	.90
DS1812-10+TR-ND	5V, EconoReset with Active High Push-Pull Output, 10%* ***NEW!***	TO-92	1350.00/2,000	
DS1813-5-ND	5V, EconoReset with Pushbutton, 5%	TO-92	1.11	.84
DS1813-5+CT-ND	5V, EconoReset with Pushbutton, 5%* ***NEW!***	TO-92	1.19	.90
DS1813-5+TR-ND	5V, EconoReset with Pushbutton, 5%* ***NEW!***	TO-92	1350.00/2,000	
DS1813-10+CT-ND	5V, EconoReset with Pushbutton, 10%* ***NEW!***	TO-92	1.19	.90
DS1813-10+TR-ND	5V, EconoReset with Pushbutton, 10%* ***NEW!***	TO-92	1350.00/2,000	
DS1813R-5+CT-ND	5V, EconoReset with Pushbutton, 5%*	SOT-23	.80	.60
DS1813R-5+TR-ND	5V, EconoReset with Pushbutton, 5%*	SOT-23	1350.00/3,000	
DS1814CR-10+CT-ND	5V, MicroMonitor with Pushbutton Reset, 10%*	SOT-23-5	1.38	1.04
DS1814CR-10+TR-ND	5V, MicroMonitor with Pushbutton Reset, 10%*	SOT-23-5	2340.00/3,000	
DS1815-10-ND	3.3V, EconoReset with Push-Pull Output, 10%	TO-92	1.11	.84
DS1815-10+CT-ND	3.3V, EconoReset with Push-Pull Output, 10%* ***NEW!***	TO-92	1.19	.90
DS1815-10+TR-ND	3.3V, EconoReset with Push-Pull Output, 10%* ***NEW!***	TO-92	1350.00/2,000	
DS1818-10-ND	3.3V, EconoReset with Pushbutton, 10%	TO-92	1.11	.84
DS1818-10+CT-ND	3.3V, EconoReset with Pushbutton, 10%* ***NEW!***	TO-92	1.19	.90
DS1818-10+TR-ND	3.3V, EconoReset with Pushbutton, 10%* ***NEW!***	TO-92	1350.00/2,000	
DS1818R-10+CT-ND	3.3V, EconoReset with Pushbutton, 10%*	SOT-23	.80	.60
DS1818R-10+TR-ND	3.3V, EconoReset with Pushbutton, 10%*	SOT-23	1350.00/3,000	
DS1821+-ND	Programmable Digital Thermostat and Thermometer* ***NEW!***	3-PR35	6.31	4.76
DS1821S-ND	Programmable Digital Thermostat and Thermometer	8-SOIC	5.75	4.34
DS1821S+-ND	Programmable Digital Thermostat and Thermometer* ***NEW!***	8-SOIC	6.31	4.76
DS1822+-ND	Econo 1-Wire® Digital Thermometer* ***NEW!***	TO-92	3.87	2.92
DS1831S+-ND	Multi-Supply Micromonitor* ***NEW!***	16-SOIC	6.76	5.10
DS1832S+-ND	3.3V, MicroMonitor Chip* ***NEW!***	8-SOIC	1.86	1.40
DS1833-5+-ND	5V, Microprocessor EconoReset, 5%* ***NEW!***	TO-92	1.80	1.36
DS1833-10-ND	5V, Microprocessor EconoReset, 10%	TO-92	1.80	1.36
DS1833-10+-ND	5V, Microprocessor EconoReset, 10%* ***NEW!***	TO-92	1.80	1.36
DS1833Z-5+CT-ND	5V, Microprocessor EconoReset, 5%* ***NEW!***	SOT-223	3.37	2.54
DS1833Z-5+TR-ND	5V, Microprocessor EconoReset, 5%* ***NEW!***	SOT-223	4762.50/2,500	
DS1833Z-10-ND	5V, Microprocessor EconoReset, 10%	SOT-223	3.15	2.38
DS1834AS-ND	Dual Microprocessor EconoReset with Pushbutton	8-SOIC	2.41	1.82
DS1834AS+-ND	Dual Microprocessor EconoReset with Pushbutton* ***NEW!***	8-SOIC	2.41	1.82
DS1834AU-ND	Dual Microprocessor EconoReset with Pushbutton	8-MSOP	2.60	1.96
DS1834AU+CT-ND	Dual Microprocessor EconoReset with Pushbutton* ***NEW!***	8-MSOP	2.68	2.02
DS1834AU+TR-ND	Dual Microprocessor EconoReset with Pushbutton* ***NEW!***	8-MSOP	4545.00/3,000	
DS1834S-ND	Dual Microprocessor EconoReset with Pushbutton	8-SOIC	2.41	1.82
DS1834S+-ND	Dual Microprocessor EconoReset with Pushbutton* ***NEW!***	8-SOIC	2.41	1.82
DS1844S-010-ND	Quad Digital Potentiometer	20-SOIC	5.78	4.36
DS1845E-010-ND	Dual Nonvolatile Potentiometer and Memory, 10K	14-TSSOP	3.82	2.88
DS1845E-010+-ND	Dual Nonvolatile Potentiometer and Memory, 10K* ***NEW!***	14-TSSOP	3.82	2.88
DS1845E-100+-ND	Dual Nonvolatile Pot. and Memory, 100K* ***NEW!***	14-TSSOP	3.82	2.88
DS1866Z-ND	2.7-5.5V, Log Trimmer Potentiometer	8-Dip	2.94	2.22
DS1867-10-ND	Dual Digital Potentiometer with EEPROM, 10K	14-Dip	8.80	6.64
DS1867-10+-ND	Dual Digital Potentiometer with EEPROM, 10K* ***NEW!***	14-Dip	8.80	6.64
DS1867-50+-ND	Dual Digital Potentiometer with EEPROM, 50K* ***NEW!***	14-Dip	8.80	6.64
DS1867-100-ND	Dual Digital Potentiometer with EEPROM, 100K	14-Dip	8.80	6.64
DS1867E-10-ND	Dual Digital Potentiometer with EEPROM, 10K	20-TSSOP	9.99	7.54
DS1867E-10+-ND	Dual Digital Potentiometer with EEPROM, 10K* ***NEW!***	20-TSSOP	9.99	7.54
DS1867S-10-ND	Dual Digital Potentiometer with EEPROM, 10K	16-SOIC	9.73	7.34
DS1867S-10+-ND	Dual Digital Potentiometer with EEPROM, 10K* ***NEW!***	16-SOIC	9.73	7.34
DS1868-10+-ND	Dual Digital Potentiometer Chip, 10K* ***NEW!***	14-Dip	5.59	4.22
DS1868E-10+-ND	Dual Digital Potentiometer Chip, 10K* ***NEW!***	20-TSSOP	6.78	5.12
DS1868S-10-ND	Dual Digital Potentiometer Chip, 10K	16-SOIC	5.88	4.44
DS1868S-10+-ND	Dual Digital Potentiometer Chip, 10K* ***NEW!***	16-SOIC	5.88	4.44
DS1869-10-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K	8-Dip	5.64	4.26
DS1869-10+-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K* ***NEW!***	8-Dip	5.64	4.26
DS1869S-10-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K	8-SOIC	5.88	4.44
DS1869S-10+-ND	3V, Dallastat™ Electronic Digital Rheostat, 10K* ***NEW!***	8-SOIC	5.88	4.44
DS1869S-50-ND	3V, Dallastat™ Electronic Digital Rheostat, 50K	8-SOIC	5.88	4.44
DS1869S-50+-ND	3V, Dallastat™ Electronic Digital Rheostat, 50K* ***NEW!***	8-SOIC	5.88	4.44
DS2016-100-ND	3V/5V, 2K x 8, Operation Static RAM	24-Dip	11.13	8.40
DS2108S-ND	Differential SCSI Switchable Terminator	24-SOIC	14.68	11.08
DS2108S+-ND	Differential SCSI Switchable Terminator* ***NEW!***	24-SOIC	19.80	14.94
DS2118MB-ND	Ultra2 LVD/SE SCSI Terminator	36-SSOP	7.45	5.62
DS2118MB+-ND	Ultra2 LVD/SE SCSI Terminator* ***NEW!***	36-SSOP	3.31	2.50
DS2119ME-ND	Ultra3 LVD/SE SCSI Terminator	28-TSSOP	3.13	2.36
DS2119ME+-ND	Ultra3 LVD/SE SCSI Terminator*	28-TSSOP	2.15	2.08
DS2141AQ-ND	5V, T1 Framer Controller	44-PLCC	50.99	38.48
DS2143Q-ND	5V, E1 Framer Controller	44-PLCC	50.99	38.48
DS2151QB-ND	5V, T1 Single Chip Transceiver	44-PLCC	77.65	58.60
DS2151QNB-ND	5V, T1 Single Chip Transceiver, Ind. Temperature	44-PLCC	89.31	67.40
DS2152L-ND	Enhanced T1 Single-Chip Transceiver	100-LQFP	68.98	52.06
DS2152LN-ND	Enhanced T1 Single-Chip Transceiver, Ind. Temperature	100-LQFP	79.26	59.82
DS2153Q-A7-ND	5V, E1 Single-Chip Transceiver	44-PLCC	77.65	58.60
DS2154L-ND	5V, Enhanced E1 Single Chip Transceiver	100-LQFP	68.98	52.06
DS2165Q-ND	5V, ADPCM Processor 16/24/32kpbs	24-PLCC	41.55	31.36
DS2172T-ND	Bit Error Rate Tester (BERT), 8-Bit	32-TQFP	18.26	13.78
DS2172T+-ND	Bit Error Rate Tester (BERT), 8-Bit* ***NEW!***	32-TQFP	17.20	12.98
DS2175S-ND	T1/CEPT Elastic Store	16-SOIC	26.82	20.24
DS2176-ND	T1 Receive Buffer	24-Dip	28.33	21.38
DS2176Q-ND	T1 Receive Buffer	28-PLCC	31.14	23.50
DS2180A-ND	T1 Transceiver	40-Dip	33.47	25.26
DS2180AQN-ND	T1 Transceiver, Industrial Temperature	44-PLCC	44.65	33.70
DS2181A-ND	CEPT Primary Rate Transceiver	40-Dip	58.78	44.36
DS2181AQ-ND	CEPT Primary Rate Transceiver	44-PLCC	64.58	48.74
DS2187-ND	Receive Line Interface	18-Dip	34.74	26.22
DS2187S-ND	Receive Line Interface	20-SOIC	38.13	28.78
DS2188-ND	T1/CEPT Jitter Attenuator	16-Dip	15.87	11.98
DS2188S-ND	T1/CEPT Jitter Attenuator	16-SOIC	17.62	13.30
DS2252T-128-16-ND	Secure Microcontroller Module, 128K	40-SIMM	201.40	152.00
DS2282/8722282000-ND	T1 FDL Controller/Monitor Stik	30-SIP	118.83	89.68
DS2401+-ND	Silicon Serial Number, 48-Bit, 1-Wire®* ***NEW!***	TO-92	1.86	1.40
DS2401P-ND	Silicon Serial Number, 48-Bit, 1-Wire®	6-TSOC	2.01	1.52
DS2401P+-ND	Silicon Serial Number, 48-Bit, 1-Wire®* ***NEW!***	6-TSOC	2.01	1.52
DS2401X1CT-ND	Silicon Serial Number, 48-Bit, 1-Wire®	6-CSP	1.03	.94
DS2401X1TR-ND	Silicon Serial Number, 48-Bit, 1-Wire®	6-CSP	5850.00/10,000	
DS2401Z-ND	Silicon Serial Number, 48-Bit, 1-Wire®	SOT-223	2.28	1.72
DS2401Z+-ND	Silicon Serial Number, 48-Bit, 1-Wire®* ***NEW!***	SOT-223	2.28	1.72
DS2404B-ND	EconoRAM Time Chip	16-SSOP	11.08	8.36
DS2404S-001-ND	EconoRAM Time Chip	16-SOIC	10.57	7.98
DS2405-ND	Addressable Switch, Open Drain	TO-92	2.23	1.68
DS2405Z-ND	Addressable Switch, Open Drain	SOT-223-4	2.41	1.82
DS2406P-ND	Dual Addressable Switch Plus 1K-Bit Memory	6-TSOC	6.78	5.12
DS2406P+-ND	Dual Addressable Switch Plus 1K-Bit Memory* ***NEW!***	6-TSOC	6.78	5.12
DS2417P-ND	1-Wire® Time Chip with Interrupt	6-TSOC	2.70	2.04
DS2417P+-ND	1-Wire® Time Chip with Interrupt* ***NEW!***	6-TSOC	2.70	2.04
DS2430A-ND	256-Bit 1-Wire® EEPROM	TO-92	3.39	2.56
DS2430A+-ND	256-Bit 1-Wire® EEPROM* ***NEW!***	TO-92	3.39	2.56
DS2430AP+-ND	256-Bit 1-Wire® EEPROM* ***NEW!***	6-TSOC	3.52	2.66
DS2432P-ND	1K-Bit Protected 1-Wire® EEPROM	6-TSOC	6.25	4.72
DS2433S+-ND	4kb, 1-Wire® EEPROM*	8-SOIC	3.98	3.84
DS2436B-ND	Battery Identification/Monitor Chip	TO-92	4.11	3.10
DS2436B+-ND	Battery Identification/Monitor Chip* ***NEW!***	TO-92	4.11	3.10
DS2436Z-ND	Battery Identification/Monitor Chip	8-SOIC	4.11	3.10
DS2436Z+-ND	Battery Identification/Monitor Chip* ***NEW!***	8-SOIC	4.11	3.10
DS2438Z+-ND	Smart Battery Monitor* ***NEW!***	8-SOIC	3.87	2.92
DS2450S+-ND	1-Wire® Quad A/D Converter* ***NEW!***	8-SOIC	8.72	6.58
DS2480B+-ND	Serial 1-Wire® Line Driver with Load Sensor* ***NEW!***	8-SOIC	6.84	5.16
DS2502P+-ND	1K-Bit Add-Only Memory*	6-TSOC	2.90	2.80
DS2502S+-ND	1K-Bit Add-Only Memory* ***NEW!***	8-SOIC	4.61	3.48
DS2505-ND	16K-Bit Add-Only Memory	TO-92	4.37	3.30
DS2505+-ND	16K-Bit Add-Only Memory* ***NEW!***	TO-92	4.37	3.30
DS2505P-ND	16K-Bit Add-Only Memory	6-TSOC	4.37	3.30
DS2505P+-ND	16K-Bit Add-Only Memory*	6-TSOC	3.01	2.91
DS5001FP-16-ND	128K Soft Microprocessor Chip	80-MQFP	35.25	26.60
DS9034PC-ND	PowerCap Module without Crystal	Powercap Module	7.58	5.72
DS9034PC+-ND	PowerCap Module without Crystal* ***NEW!***	Powercap Module	7.58	5.72
DS9034PCX+-ND	PowerCap Module with Crystal* ***NEW!***	Powercap Module	9.86	7.44
DS9502P-ND	ESD Protection Diode	6-TSOC	1.03	.78
DS9502P+-ND	ESD Protection Diode* ***NEW!***	6-TSOC	1.03	.78
DS9503P-ND	ESD Protection Diode with Resistor	6-TSOC	1.11	.84
DS9503P+-ND	ESD Protection Diode with Resistor* ***NEW!***	6-TSOC	1.11	.84
DS12885Q-ND	Real-Time Clock with RAM, 128-Byte	28-PLCC	8.03	6.06
DS12885Q+-ND	Real-Time Clock with RAM, 128-Byte* ***NEW!***	28-PLCC	8.03	6.06
DS12885S-ND	Real-Time Clock with RAM, 128-Byte	24-SOIC	7.74	5.84
DS12887-ND	Real-Time Clock with RAM, 128-Byte	24-Dip	8.96	6.76
DS12887+-ND	Real-Time Clock with RAM, 128-Byte* ***NEW!***	24-Dip	8.96	6.76
DS12887A-ND	Real-Time Clock with RAM, 128-Byte	24-Dip	8.96	6.76
DS12887A+-ND	Real-Time Clock with RAM, 128-Byte* ***NEW!***	24-Dip	8.96	6.76
DS14285Q-ND	Real-Time Clock with NV RAM Control	28-PLCC	8.03	6.06
DS14287+-ND	Real-Time Clock with NV RAM Control* ***NEW!***	24-Dip	10.94	8.26
DS17285S-3-ND	3V, Real-Time Clock Chip	24-SOIC	9.01	6.80
DS17287-5+-ND	5V, Real-Time Clock with Battery and Crystal* ***NEW!***	24-Dip	14.79	11.16
DS17887-5-ND	5V, Real-Time Clock	24-Dip	22.34	16.86
DS17887-5+-ND	5V, Real-Time Clock* ***NEW!***	24-Dip	22.34	16.86
DS18030-010-ND	Addressable Dual Digital Potentiometer	16-Dip	5.88	4.44
DS21352L-ND	3.3V, T1 Single Chip Transceiver	100-LQFP	55.04	41.54
DS21352LN-ND	3.3V, T1 Single Chip Transceiver	100-LQFP	63.20	47.70
DS21354L-ND	3.3V, E1 Single Chip Transceiver	100-LQFP	55.04	41.54
DS21354L+-ND	3.3V, E1 Single Chip Transceiver* ***NEW!***	100-LQFP	39.64	29.92
DS21600SN+-ND	3.3V/5V, Clock Rate Adapter*	16-SOIC	25.60	24.70

* ***RoHS Compliant***

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

RAYMING corporation

RF TRANSMITTER AND RECEIVER BOARDS

Digi-Key Part No.	Description	Price Each★ 1	25	100
RE-01-ND	Decoder Motherboard utilizing the HT-12D Decoder IC; 3.2" x 2.4" (81.28mm x 60.96mm). Designed for use with the RE-66 Receiver. Operating Voltage: 12 VDC	21.00	18.75	12.75
RE-66-ND	Serial Data Output 310 MHz LC AM Receiver Board. 1.188" x 2.375" (30.18mm x 60.33mm). Operating Voltage: 5VDC	14.00	12.50	8.50

Micron

DRAM

SDRAM

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT48H8M16LFB4-8 IT TR	557-1051-1-ND	Mobile SDRAM, 128Mb	54-VFBGA	7.26	5.35	4.97
MT48H8M16LFB4-8 IT TR	557-1051-2-ND	Mobile SDRAM, 128Mb	54-VFBGA	4584.00/1,000		
MT48H8M16LFB4-8 TR	557-1052-1-ND	Mobile SDRAM, 128Mb	54-VFBGA	6.61	4.88	4.53
MT48H8M16LFB4-8 TR	557-1052-2-ND	Mobile SDRAM, 128Mb	54-VFBGA	4176.00/1,000		
MT48H8M32LFB5-8 IT TR	557-1053-1-ND	Mobile SDRAM, 256Mb	90-VFBGA	19.04	15.12	14.00
MT48H8M32LFB5-8 TR	557-1054-1-ND	Mobile SDRAM, 256Mb	90-VFBGA	16.49	13.10	12.13
MT48H8M32LFB5-8 TR	557-1054-2-ND	Mobile SDRAM, 256Mb	90-VFBGA	11349.00/1,000		
MT48LC2M32B2P-6:G TR	557-1071-1-ND	SDRAM, 64Mb	86-TSOP	6.20	4.28	3.93
MT48LC2M32B2P-6:G TR	557-1071-2-ND	SDRAM, 64Mb	86-TSOP	3614.00/1,000		
MT48LC2M32B2P-7 IT:G TR	557-1072-1-ND	SDRAM, 64Mb	86-TSOP	6.78	4.69	4.30
MT48LC2M32B2P-7 IT:G TR	557-1072-2-ND	SDRAM, 64Mb	86-TSOP	3957.00/1,000		
MT48LC2M32B2P-7:G TR	557-1073-1-ND	SDRAM, 64Mb	86-TSOP	6.20	4.28	3.93
MT48LC2M32B2P-7:G TR	557-1073-2-ND	SDRAM, 64Mb	86-TSOP	3614.00/1,000		
MT48LC2M32B2TG-6:G TR	557-1074-1-ND	SDRAM, 64Mb	86-TSOP	6.20	4.28	3.93
MT48LC2M32B2TG-6:G TR	557-1074-2-ND	SDRAM, 64Mb	86-TSOP	3614.00/1,000		
MT48LC2M32B2TG-7 IT:G TR	557-1075-1-ND	SDRAM, 64Mb	86-TSOP	6.78	4.69	4.30
MT48LC2M32B2TG-7 IT:G TR	557-1075-2-ND	SDRAM, 64Mb	86-TSOP	3957.00/1,000		
MT48LC2M32B2TG-7:G TR	557-1076-1-ND	SDRAM, 64Mb	86-TSOP	6.20	4.28	3.93
MT48LC2M32B2TG-7:G TR	557-1076-2-ND	SDRAM, 64Mb	86-TSOP	3614.00/1,000		
MT48LC4M16A2P-7E:G TR	557-1089-1-ND	SDRAM, 64Mb	54-TSOP	5.69	3.93	3.61
MT48LC4M16A2P-7E:G TR	557-1089-2-ND	SDRAM, 64Mb	54-TSOP	3320.00/1,000		
MT48LC4M16A2P-75 IT:G TR	557-1087-1-ND	SDRAM, 64Mb	54-TSOP	6.38	4.41	4.05
MT48LC4M16A2P-75 IT:G TR	557-1087-2-ND	SDRAM, 64Mb	54-TSOP	3724.00/1,000		
MT48LC4M16A2P-75:G TR	557-1088-1-ND	SDRAM, 64Mb	54-TSOP	5.59	3.86	3.54
MT48LC4M16A2P-75:G TR	557-1088-2-ND	SDRAM, 64Mb	54-TSOP	3259.00/1,000		
MT48LC4M16A2TG-7E:G TR	557-1092-1-ND	SDRAM, 64Mb	54-TSOP	5.69	3.93	3.61
MT48LC4M16A2TG-7E:G TR	557-1092-2-ND	SDRAM, 64Mb	54-TSOP	3320.00/1,000		
MT48LC4M16A2TG-75 IT:G TR	557-1090-1-ND	SDRAM, 64Mb	54-TSOP	6.38	4.41	4.05
MT48LC4M16A2TG-75 IT:G TR	557-1090-2-ND	SDRAM, 64Mb	54-TSOP	3724.00/1,000		
MT48LC4M16A2TG-75:G TR	557-1091-1-ND	SDRAM, 64Mb	54-TSOP	5.59	3.86	3.54
MT48LC4M16A2TG-75:G TR	557-1091-2-ND	SDRAM, 64Mb	54-TSOP	3259.00/1,000		
MT48LC4M32B2B5-7 IT:G TR	557-1195-1-ND	SDRAM, 128Mb ***NEW!***	90-VFBGA	11.43	8.58	7.88
MT48LC4M32B2B5-7 IT:G TR	557-1195-2-ND	SDRAM, 128Mb ***NEW!***	90-VFBGA	7206.00/1,000		
MT48LC4M32B2F5-7 IT:G TR	557-1093-1-ND	SDRAM, 128Mb	90-VFBGA	11.38	8.39	7.79
MT48LC4M32B2F5-7 IT:G TR	557-1093-2-ND	SDRAM, 128Mb	90-VFBGA	7188.00/1,000		
MT48LC4M32B2F5-7:G TR	557-1094-1-ND	SDRAM, 128Mb	90-VFBGA	10.11	7.45	6.92
MT48LC4M32B2F5-7:G TR	557-1094-2-ND	SDRAM, 128Mb	90-VFBGA	6384.00/1,000		
MT48LC4M32B2P-6:G TR	557-1196-1-ND	SDRAM, 128Mb ***NEW!***	86-TSOP	10.17	6.88	6.53
MT48LC4M32B2P-6:G TR	557-1196-2-ND	SDRAM, 128Mb ***NEW!***	86-TSOP	5918.00/1,000		
MT48LC4M32B2TG-6:G TR	557-1095-1-ND	SDRAM, 128Mb	86-TSOP	10.08	6.96	6.39
MT48LC4M32B2TG-6:G TR	557-1095-2-ND	SDRAM, 128Mb	86-TSOP	5880.00/1,000		
MT48LC4M32B2P-7 IT:G TR	557-1197-1-ND	SDRAM, 128Mb ***NEW!***	86-TSOP	10.51	7.90	7.25
MT48LC4M32B2P-7 IT:G TR	557-1197-2-ND	SDRAM, 128Mb ***NEW!***	86-TSOP	6629.00/1,000		
MT48LC4M32B2TG-7 IT:G TR	557-1096-1-ND	SDRAM, 128Mb	86-TSOP	10.47	7.72	7.17
MT48LC4M32B2TG-7 IT:G TR	557-1096-2-ND	SDRAM, 128Mb	86-TSOP	6612.00/1,000		
MT48LC8M8A2TG-7E:G TR	557-1106-1-ND	SDRAM, 64Mb	54-TSOP	5.69	3.93	3.61
MT48LC8M8A2TG-7E:G TR	557-1106-2-ND	SDRAM, 64Mb	54-TSOP	3320.00/1,000		
MT48LC8M8A2TG-75:G TR	557-1105-1-ND	SDRAM, 64Mb	54-TSOP	5.59	3.86	3.54
MT48LC8M8A2TG-75:G TR	557-1105-2-ND	SDRAM, 64Mb	54-TSOP	3259.00/1,000		
MT48LC8M16A2P-7E:G TR	557-1100-1-ND	SDRAM, 128Mb	54-TSOP	9.28	6.41	5.88
MT48LC8M16A2P-7E:G TR	557-1100-2-ND	SDRAM, 128Mb	54-TSOP	5415.00/1,000		
MT48LC8M16A2P-75 IT:G TR	557-1099-1-ND	SDRAM, 128Mb	54-TSOP	9.58	7.06	6.56
MT48LC8M16A2P-75 IT:G TR	557-1099-2-ND	SDRAM, 128Mb	54-TSOP	6048.00/1,000		
MT48LC8M16A2TG-7E:G TR	557-1102-1-ND	SDRAM, 128Mb	54-TSOP	9.28	6.41	5.88
MT48LC8M16A2TG-7E:G TR	557-1102-2-ND	SDRAM, 128Mb	54-TSOP	5415.00/1,000		
MT48LC8M16A2TG-75 IT:G TR	557-1101-1-ND	SDRAM, 128Mb	54-TSOP	9.58	7.06	6.56
MT48LC8M16A2TG-75 IT:G TR	557-1101-2-ND	SDRAM, 128Mb	54-TSOP	6048.00/1,000		
MT48LC8M32LFB5-8 IT TR	557-1103-1-ND	Mobile SDRAM, 256Mb	90-VFBGA	18.53	14.72	13.63
MT48LC8M32LFB5-8 IT TR	557-1103-2-ND	Mobile SDRAM, 256Mb	90-VFBGA	12753.00/1,000		
MT48LC8M32LFB5-8 TR	557-1104-1-ND	Mobile SDRAM, 256Mb	90-VFBGA	16.63	13.30	12.35
MT48LC8M32LFB5-8 TR	557-1104-2-ND	Mobile SDRAM, 256Mb	90-VFBGA	11400.00/1,000		
MT48LC16M8A2FB-75 IT:G TR	557-1067-1-ND	SDRAM, 128Mb	60-FBGA	11.38	8.39	7.79
MT48LC16M8A2FB-75 IT:G TR	557-1067-2-ND	SDRAM, 128Mb	60-FBGA	7188.00/1,000		
MT48LC16M8A2FB-75:G TR	557-1068-1-ND	SDRAM, 128Mb	60-FBGA	10.74	7.91	7.35
MT48LC16M8A2FB-75:G TR	557-1068-2-ND	SDRAM, 128Mb	60-FBGA	6780.00/1,000		
MT48LC16M8A2TG-75 IT:G TR	557-1069-1-ND	SDRAM, 128Mb	54-TSOP	9.58	7.06	6.56
MT48LC16M8A2TG-75 IT:G TR	557-1069-2-ND	SDRAM, 128Mb	54-TSOP	6048.00/1,000		
MT48LC16M8A2TG-75:G TR	557-1070-1-ND	SDRAM, 128Mb	54-TSOP	9.28	6.41	5.88
MT48LC16M8A2TG-75:G TR	557-1070-2-ND	SDRAM, 128Mb	54-TSOP	5415.00/1,000		
MT48LC16M16A2BG-75 IT:D TR	557-1189-1-ND	SDRAM, 256Mb ***NEW!***	54-VFBGA	15.23	11.43	10.50
MT48LC16M16A2BG-75 IT:D TR	557-1189-2-ND	SDRAM, 256Mb ***NEW!***	54-VFBGA	9600.00/1,000		
MT48LC16M16A2FG-75 IT:D TR	557-1056-1-ND	SDRAM, 256Mb	54-VFBGA	13.97	11.18	10.38
MT48LC16M16A2FG-75 IT:D TR	557-1056-2-ND	SDRAM, 256Mb	54-VFBGA	9576.00/1,000		
MT48LC16M16A2BG-75:D TR	557-1190-1-ND	SDRAM, 256Mb ***NEW!***	54-VFBGA	12.69	9.53	8.75
MT48LC16M16A2BG-75:D TR	557-1190-2-ND	SDRAM, 256Mb ***NEW!***	54-VFBGA	8000.00/1,000		
MT48LC16M16A2FG-75:D TR	557-1057-1-ND	SDRAM, 256Mb	54-VFBGA	12.64	9.31	8.65
MT48LC16M16A2FG-75:D TR	557-1057-2-ND	SDRAM, 256Mb	54-VFBGA	7980.00/1,000		
MT48LC16M16A2P-7E:D TR	557-1060-1-ND	SDRAM, 256Mb	54-TSOP	11.38	8.39	7.79
MT48LC16M16A2P-7E:D TR	557-1060-2-ND	SDRAM, 256Mb	54-TSOP	7188.00/1,000		
MT48LC16M16A2P-75 IT:D TR	557-1058-1-ND	SDRAM, 256Mb	54-TSOP	12.64	9.31	8.65
MT48LC16M16A2P-75 IT:D TR	557-1058-2-ND	SDRAM, 256Mb	54-TSOP	7980.00/1,000		
MT48LC16M16A2P-75:D TR	557-1059-1-ND	SDRAM, 256Mb	54-TSOP	11.38	8.39	7.79
MT48LC16M16A2P-75:D TR	557-1059-2-ND	SDRAM, 256Mb	54-TSOP	7188.00/1,000		
MT48LC16M16A2TG-75 IT:D TR	557-1061-1-ND	SDRAM, 256Mb	54-TSOP	12.64	9.31	8.65
MT48LC16M16A2TG-75 IT:D TR	557-1061-2-ND	SDRAM, 256Mb	54-TSOP	7980.00/1,000		
MT48LC16M16A2P-75 L:D TR	557-1191-1-ND	SDRAM, 256Mb ***NEW!***	54-TSOP	12.69	9.53	8.75
MT48LC16M16A2P-75 L:D TR	557-1191-2-ND	SDRAM, 256Mb ***NEW!***	54-TSOP	8000.00/1,000		
MT48LC16M16A2TG-75 L:D TR	557-1062-1-ND	SDRAM, 256Mb	54-TSOP	12.64	9.31	8.65
MT48LC16M16A2TG-75 L:D TR	557-1062-2-ND	SDRAM, 256Mb	54-TSOP	7980.00/1,000		
MT48LC16M16A2TG-75:D TR	557-1063-1-ND	SDRAM, 256Mb	54-TSOP	11.38	8.39	7.79
MT48LC16M16A2TG-75:D TR	557-1063-2-ND	SDRAM, 256Mb	54-TSOP	7188.00/1,000		
MT48LC16M16A2P-7E IT:D TR	557-1192-1-ND	SDRAM, 256Mb ***NEW!***	54-TSOP	13.41	10.07	9.25
MT48LC16M16A2P-7E IT:D TR	557-1192-2-ND	SDRAM, 256Mb ***NEW!***	54-TSOP	8457.00/1,000		
MT48LC16M16A2TG-7E IT:D TR	557-1064-1-ND	SDRAM, 256Mb	54-TSOP	13.36	9.85	9.14
MT48LC16M16A2TG-7E IT:D TR	557-1064-2-ND	SDRAM, 256Mb	54-TSOP	8436.00/1,000		
MT48LC16M16A2TG-7E:D TR	557-1065-1-ND	SDRAM, 256Mb	54-TSOP	11.38	8.39	7.79
MT48LC16M16A2TG-7E:D TR	557-1065-2-ND	SDRAM, 256Mb	54-TSOP	7188.00/1,000		
MT48LC32M4A2TG-75:G TR	557-1081-1-ND	SDRAM, 128Mb	54-TSOP	9.35	6.46	5.92
MT48LC32M8A2FB-7E:D TR	557-1084-1-ND	SDRAM, 256Mb	60-FBGA	13.55	9.99	9.27
MT48LC32M8A2FB-7E:D TR	557-1084-2-ND	SDRAM, 256Mb	60-FBGA	8556.00/1,000		
MT48LC32M8A2FB-75 L:D TR	557-1082-1-ND	SDRAM, 256Mb	60-FBGA	15.16	11.18	10.38
MT48LC32M8A2FB-75 L:D TR	557-1082-2-ND	SDRAM, 256Mb	60-FBGA	9576.00/1,000		
MT48LC32M8A2FB-75:D TR	557-1083-1-ND	SDRAM, 256Mb	60-FBGA	12.64	9.31	8.65
MT48LC32M8A2FB-75:D TR	557-1083-2-ND	SDRAM, 256Mb	60-FBGA	7980.00/1,000		
MT48LC32M8A2P-7E:D TR	557-1194-1-ND	SDRAM, 256Mb ***NEW!***	54-TSOP	11.43	8.58	7.88
MT48LC32M8A2P-7E:D TR	557-1194-2-ND	SDRAM, 256Mb ***NEW!***	54-TSOP	7206.00/1,000		
MT48LC32M8A2TG-7E:D TR	557-1086-1-ND	SDRAM, 256Mb	54-TSOP	11.38	8.39	7.79
MT48LC32M8A2TG-7E:D TR	557-1086-2-ND	SDRAM, 256Mb	54-TSOP	7188.00/1,000		
MT48LC32M8A2P-75:D TR	557-1193-1-ND	SDRAM, 256Mb ***NEW!***	54-TSOP	11.43	8.58	7.88
MT48LC32M8A2P-75:D TR	557-1193-2-ND	SDRAM, 256Mb ***NEW!***	54-TSOP	7206.00/1,000		
MT48LC32M8A2TG-75:D TR	557-1085-1-ND	SDRAM, 256Mb	54-TSOP	11.38	8.39	7.79
MT48LC32M8A2TG-75:D TR	557-1085-2-ND	SDRAM, 256Mb	54-TSOP	7188.00/1,000		
MT48LC32M16A2P-75 IT:C TR	557-1077-1-ND	SDRAM, 512Mb	54-TSOP	48.81	40.94	38.58
MT48LC32M16A2P-75 IT:C TR	557-1077-2-ND	SDRAM, 512Mb	54-TSOP	35899.00/1,000		
MT48LC32M16A2P-75:C TR	557-1078-1-ND	SDRAM, 512Mb	54-TSOP	37.93	29.89	28.74
MT48LC32M16A2P-75:C TR	557-1078-2-ND	SDRAM, 512Mb	54-TSOP	26209.00/1,000		
MT48LC32M16A2TG-75 IT:C TR	557-1079-1-ND	SDRAM, 512Mb	54-TSOP	48.81	40.94	38.58
MT48LC32M16A2TG-75 IT:C TR	557-1079-2-ND	SDRAM, 512Mb	54-TSOP	35899.00/1,000		
MT48LC32M16A2TG-75:C TR	557-1080-1-ND	SDRAM, 512Mb	54-TSOP	37.93	29.89	28.74
MT48LC32M16A2TG-75:C TR	557-1080-2-ND	SDRAM, 512Mb	54-TSOP	26209.00/1,000		
MT48LC64M4A2TG-75:D TR	557-1097-1-ND	SDRAM, 256Mb	54-TSOP	11.38	8.39	7.79
MT48LC64M4A2TG-75:D TR	557-1097-2-ND	SDRAM, 256Mb	54-TSOP	7188.00/1,000		
MT48LC64M8A2P-75:C TR	557-1198-1-ND	SDRAM, 512Mb ***NEW!***	54-TSOP	40.16	30.24	29.36
MT48LC64M8A2P-75:C TR	557-1198-2-ND	SDRAM, 512Mb ***NEW!***	54-TSOP	26209.00/1,000		
MT48LC64M8A2TG-75:C TR	557-1098-1-ND	SDRAM, 512Mb	54-TSOP	37.93	29.89	28.74
MT48LC64M8A2TG-75:C TR	557-1098-2-ND	SDRAM, 512Mb	54-TSOP	26209.00/1,000		
MT48LC128M4A2P-75:C TR	557-1188-1-ND	SDRAM, 512Mb ***NEW!***	54-TSOP	39.05	29.40	28.55
MT48LC128M4A2P-75:C TR	557-1188-2-ND	SDRAM, 512Mb ***NEW!***	54-TSOP	25479.00/1,000		
MT48LC128M4A2TG-75:C TR	557-1055-1-ND	SDRAM, 512Mb	54-TSOP	37.93	29.89	28.74
MT48LC128M4A2TG-75:C TR	557-1055-2-ND	SDRAM, 512Mb	54-TSOP	26209.00/1,000		
MT48V8M32LFB5-8 IT TR	557-1107-1-ND	Mobile SDRAM, 256Mb	90-VFBGA	18.53	14.72	13.63
MT48V8M32LFB5-8 IT TR	557-1107-2-ND	Mobile SDRAM, 256Mb	90-VFBGA	12753.00/1,000		
MT48V8M32LFB5-8 TR	557-1108-1-ND	Mobile SDRAM, 256Mb	90-VFBGA	16.63	13.30	12.35
MT48V8M32LFB5-8 TR	557-1108-2-ND	Mobile SDRAM, 256Mb	90-VFBGA	11400.00/1,000		

DDR

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT46V8M16TG-6T IT:D TR	557-1041-1-ND	DDR SDRAM, 128Mb	66-TSOP	7.85	5.79	5.37
MT46V8M16TG-6T IT:D TR	557-1041-2-ND	DDR SDRAM, 128Mb	66-TSOP	4956.00/1,000		
MT46V8M16P-6T L:D TR	557-1186-1-ND	DDR SDRAM, 128Mb ***NEW!***	66-TSOP	10.02	7.52	6.91
MT46V8M16P-6T L:D TR	557-1186-2-ND	DDR SDRAM, 128Mb ***NEW!***	66-TSOP	6316.00/1,000		
MT46V8M16TG-6T L:D TR	557-1042-1-ND	DDR SDRAM, 128Mb	66-TSOP	7.22	5.32	4.94
MT46V8M16TG-6T L:D TR	557-1042-2-ND	DDR SDRAM, 128Mb	66-TSOP	4560.00/1,000		
MT46V8M16P-6T:D TR	557-1187-1-ND	DDR SDRAM, 128Mb ***NEW!***	66-TSOP	7.05	5.01	4.53
MT46V8M16P-6T:D TR	557-1187-2-ND	DDR SDRAM, 128Mb ***NEW!***	66-TSOP	4106.00/1,000		
MT46V8M16TG-6T:D TR	557-1043-1-ND	DDR SDRAM, 128Mb	66-TSOP	6.93	4.79	4.39
MT46V8M16TG-6T:D TR	557-1043-2-ND	DDR SDRAM, 128Mb	66-TSOP	4043.00/1,000		
MT46V16M8TG-6T IT:D TR	557-1021-1-ND	DDR SDRAM, 128Mb	66-TSOP	7.85	5.79	5.37
MT46V16M8TG-6T IT:D TR	557-1021-2-ND	DDR SDRAM, 128Mb	66-TSOP	4956.00/1,000		
MT46V16M8TG-6T L:D TR	557-1022-1-ND	DDR SDRAM, 128Mb	66-TSOP	7.22	5.32	4.94
MT46V16M8TG-6T L:D TR	557-1022-2-ND	DDR SDRAM, 128Mb	66-TSOP	4560.00/1,000		
MT46V16M8TG-6T:D TR	557-1023-1-ND	DDR SDRAM, 128Mb	66-TSOP	6.99	4.83	4.43
MT46V16M8TG-6T:D TR	557-1023-2-ND	DDR SDRAM, 128Mb	66-TSOP	4079.00/1,000		
MT46V16M16BG-5B:F TR	557-1181-1-ND	DDR SDRAM, 256Mb ***NEW!***	60-FBGA	10.15	7.62	7.00
MT46V16M16BG-5B:F TR	557-1181-2-ND	DDR SDRAM, 256Mb ***NEW!***	60-FBGA	6400.00/1,000		
MT46V16M16FG-5B:F TR	557-1015-1-ND	DDR SDRAM, 256Mb	60-FBGA	9.31	7.45	6.92
MT46V16M16FG-5B:F TR	557-1015-2-ND	DDR SDRAM, 256Mb	60-FBGA	6384.00/1,000		
MT46V16M16BG-6:F TR	557-1182-1-ND	DDR SDRAM, 256Mb ***NEW!***	60-FBGA	9.69	7.28	6.69
MT46V16M16BG-6:F TR	557-1182-2-ND	DDR SDRAM, 256Mb ***NEW!***	60-FBGA	6111.00/1,000		
MT46V16M16FG-6:F TR	557-1016-1-ND	DDR SDRAM, 256Mb	60-FBGA	8.89	7.12	6.61
MT46V16M16FG-6:F TR	557-1016-2-ND	DDR SDRAM, 256Mb	60-FBGA	6096.00/1,000		
MT46V16M16P-5B:F TR	557-1183-1-ND	DDR SDRAM, 256Mb ***NEW!***	66-TSOP	8.56	5.79	5.50
MT46V16M16P-5B:F TR	557-1183-2-ND	DDR SDRAM, 256Mb ***NEW!***	66-TSOP	4981.00/1,000		
MT46V16M16TG-5B:F TR	557-1017-1-ND	DDR SDRAM, 256Mb	66-TSOP	7.68	5.66	5.26
MT46V16M16TG-5B:F TR	557-1017-2-ND	DDR SDRAM, 256Mb	66-TSOP	4848.00/1,000		
MT46V16M16P-6T IT:F TR	557-1184-1-ND	DDR SDRAM, 256Mb ***NEW!***	66-TSOP	9.06	6.81	6.25
MT46V16M16P-6T IT:F TR	557-1184-2-ND	DDR SDRAM, 256Mb ***NEW!***	66-TSOP	5714.00/1,000		
MT46V16M16TG-6T IT:F TR	557-1018-1-ND	DDR SDRAM, 256Mb	66-TSOP	9.03	6.65	6.18
MT46V16M16TG-6T IT:F TR	557-1018-2-ND	DDR SDRAM, 256Mb	66-TSOP	5700.00/1,000		
MT46V16M16P-6T:F TR	557-1185-1-ND	DDR SDRAM, 256Mb ***NEW!***	66-TSOP	8.05	5.45	5.17
MT46V16M16P-6T:F TR	557-1185-2-ND	DDR SDRAM, 256Mb ***NEW!***	66-TSOP	4685.00/1,000		
MT46V16M16TG-6T:F TR	557-1020-1-ND	DDR SDRAM, 256Mb	66-TSOP	7.22	5.32	4.94
MT46V16M16TG-6T:F TR	557-1020-2-ND	DDR SDRAM, 256Mb	66-TSOP	4560.00/1,000		
MT46V16M16TG-6T L:F TR	557-1019-1-ND	DDR SDRAM, 256Mb	66-TSOP	8.30	6.12	5.69
MT46V16M16TG-6T L:F TR	557-1019-2-ND	DDR SDRAM, 256Mb	66-TSOP	5244.00/1,000		
MT46V32M4TG-6T:D TR	557-1024-1-ND	DDR SDRAM, 128Mb	66-TSOP	6.99	4.83	4.43
MT46V32M4TG-6T:D TR	557-1024-2-ND	DDR SDRAM, 128Mb	66-TSOP	4079.00/1,000		
MT46V32M8FG-5B:G TR	557-1025-1-ND	DDR SDRAM, 256Mb	60-FBGA	8.56	6.85	6.36
MT46V32M8FG-5B:G TR	557-1025-2-ND	DDR SDRAM, 256Mb	60-FBGA	5868.00/1,000		
MT46V32M8FG-6:G TR	557-1026-1-ND	DDR SDRAM, 256Mb	60-FBGA	8.07	6.46	6.00
MT46V32M8FG-6:G TR	557-1026-2-ND	DDR SDRAM, 256Mb	60-FBGA	5532.00/1,000		
MT46V32M8TG-5B:G TR	557-1027-1-ND	DDR SDRAM, 256Mb	66-TSOP	6.50	4.79	4.45

(Continued)

Micron DRAM *(Continued)*

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT46V32M8TG-5B:G TR	557-1027-2-ND	DDR SDRAM, 256Mb	66-TSOP	4104.00/1,000		
MT46V32M8P-6T IT:G TR	557-1179-1-ND	DDR SDRAM, 256Mb ***NEW!***	66-TSOP	10.06	6.81	6.46
MT46V32M8P-6T IT:G TR	557-1179-2-ND	DDR SDRAM, 256Mb ***NEW!***	66-TSOP	5857.00/1,000		
MT46V32M8TG-6T IT:G TR	557-1028-1-ND	DDR SDRAM, 256Mb	66-TSOP	8.13	6.00	5.57
MT46V32M8TG-6T IT:G TR	557-1028-2-ND	DDR SDRAM, 256Mb	66-TSOP	5136.00/1,000		
MT46V32M8TG-6T L:G TR	557-1029-1-ND	DDR SDRAM, 256Mb	66-TSOP	6.90	5.52	5.13
MT46V32M8TG-6T L:G TR	557-1029-2-ND	DDR SDRAM, 256Mb	66-TSOP	4728.00/1,000		
MT46V32M8TG-6T:G TR	557-1030-1-ND	DDR SDRAM, 256Mb	66-TSOP	6.50	4.79	4.45
MT46V32M8TG-6T:G TR	557-1030-2-ND	DDR SDRAM, 256Mb	66-TSOP	4104.00/1,000		
MT46V64M4FG-5B:G TR	557-1031-1-ND	DDR SDRAM, 256Mb	60-FBGA	8.56	6.85	6.36
MT46V64M4FG-5B:G TR	557-1031-2-ND	DDR SDRAM, 256Mb	60-FBGA	5868.00/1,000		
MT46V64M4FG-6:G TR	557-1032-1-ND	DDR SDRAM, 256Mb	60-FBGA	8.07	6.46	6.00
MT46V64M4FG-6:G TR	557-1032-2-ND	DDR SDRAM, 256Mb	60-FBGA	5532.00/1,000		
MT46V64M4TG-5B:G TR	557-1033-1-ND	DDR SDRAM, 256Mb	66-TSOP	6.86	5.06	4.70
MT46V64M4TG-5B:G TR	557-1033-2-ND	DDR SDRAM, 256Mb	66-TSOP	4332.00/1,000		
MT46V64M4TG-6T:G TR	557-1034-1-ND	DDR SDRAM, 256Mb	66-TSOP	6.50	4.79	4.45
MT46V64M4TG-6T:G TR	557-1034-2-ND	DDR SDRAM, 256Mb	66-TSOP	4104.00/1,000		
MT46V64M8BN-5B:F TR	557-1174-1-ND	DDR SDRAM, 512Mb ***NEW!***	60-FBGA	18.26	14.22	13.35
MT46V64M8BN-5B:F TR	557-1174-2-ND	DDR SDRAM, 512Mb ***NEW!***	60-FBGA	12279.00/1,000		
MT46V64M8FN-5B:D TR	557-1035-1-ND	DDR SDRAM, 512Mb	60-FBGA	17.77	14.11	13.07
MT46V64M8FN-5B:D TR	557-1035-2-ND	DDR SDRAM, 512Mb	60-FBGA	12227.00/1,000		
MT46V64M8BN-6:F TR	557-1175-1-ND	DDR SDRAM, 512Mb ***NEW!***	60-FBGA	17.26	13.44	12.62
MT46V64M8BN-6:F TR	557-1175-2-ND	DDR SDRAM, 512Mb ***NEW!***	60-FBGA	11609.00/1,000		
MT46V64M8FN-6:D TR	557-1036-1-ND	DDR SDRAM, 512Mb	60-FBGA	16.80	13.34	12.35
MT46V64M8FN-6:D TR	557-1036-2-ND	DDR SDRAM, 512Mb	60-FBGA	11560.00/1,000		
MT46V64M8TG-5B:D TR	557-1037-1-ND	DDR SDRAM, 512Mb	66-TSOP	11.31	8.98	8.32
MT46V64M8TG-5B:D TR	557-1037-2-ND	DDR SDRAM, 512Mb	66-TSOP	7781.00/1,000		
MT46V64M8TG-6T IT:D TR	557-1038-1-ND	DDR SDRAM, 512Mb	66-TSOP	13.71	10.81	10.39
MT46V64M8TG-6T IT:D TR	557-1038-2-ND	DDR SDRAM, 512Mb	66-TSOP	9997.00/1,000		
MT46V64M8P-6T:F TR	557-1176-1-ND	DDR SDRAM, 512MB ***NEW!***	66-TSOP	12.69	9.53	8.75
MT46V64M8P-6T:F TR	557-1176-2-ND	DDR SDRAM, 512MB ***NEW!***	66-TSOP	8000.00/1,000		
MT46V64M8TG-6T:D TR	557-1039-1-ND	DDR SDRAM, 512Mb	66-TSOP	11.31	8.98	8.32
MT46V64M8TG-6T:D TR	557-1039-2-ND	DDR SDRAM, 512Mb	66-TSOP	7781.00/1,000		
MT46V128M4FN-5B:D TR	557-1011-1-ND	DDR SDRAM, 512Mb	60-FBGA	19.79	15.72	14.55
MT46V128M4FN-5B:D TR	557-1011-2-ND	DDR SDRAM, 512Mb	60-FBGA	13619.00/1,000		
MT46V128M4FN-6:D TR	557-1012-1-ND	DDR SDRAM, 512Mb	60-FBGA	18.82	14.95	13.84
MT46V128M4FN-6:D TR	557-1012-2-ND	DDR SDRAM, 512Mb	60-FBGA	12952.00/1,000		
MT46V128M4TG-5B:D TR	557-1013-1-ND	DDR SDRAM, 512Mb	66-TSOP	15.67	12.45	11.53
MT46V128M4TG-5B:D TR	557-1013-2-ND	DDR SDRAM, 512Mb	66-TSOP	10787.00/1,000		
MT46V128M4TG-6T:D TR	557-1014-1-ND	DDR SDRAM, 512Mb	66-TSOP	14.86	11.80	10.93
MT46V128M4TG-6T:D TR	557-1014-2-ND	DDR SDRAM, 512Mb	66-TSOP	10226.00/1,000		

DDR2

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT47H16M16BG-3:B TR	557-1046-1-ND	DDR2 SDRAM, 256Mb	84-FBGA	7.79	6.19	5.73
MT47H16M16BG-3:B TR	557-1046-2-ND	DDR2 SDRAM, 256Mb	84-FBGA	5359.00/1,000		
MT47H16M16BG-37E:B TR	557-1045-1-ND	DDR2 SDRAM, 256Mb	84-FBGA	8.30	6.12	5.69
MT47H16M16BG-37E:B TR	557-1045-2-ND	DDR2 SDRAM, 256Mb	84-FBGA	5244.00/1,000		
MT47H32M16BT-3:A TR	557-1048-1-ND	DDR2 SDRAM, 512Mb	92-FBGA	45.26	37.96	35.77
MT47H32M16CC-3:B TR	557-1200-1-ND	DDR2 SDRAM, 512Mb ***NEW!***	84-FBGA	12.51	9.94	9.20
MT47H32M16CC-3:B TR	557-1200-2-ND	DDR2 SDRAM, 512Mb ***NEW!***	84-FBGA	8611.00/1,000		
MT47H32M8BP-3:B TR	557-1050-1-ND	DDR2 SDRAM, 256Mb	60-FBGA	28.05	22.28	20.63
MT47H32M8BP-3:B TR	557-1050-2-ND	DDR2 SDRAM, 256Mb	60-FBGA	19305.00/1,000		
MT47H32M8BP-37E:B TR	557-1049-1-ND	DDR2 SDRAM, 256Mb	60-FBGA	8.30	6.12	5.69
MT47H32M8BP-37E:B TR	557-1049-2-ND	DDR2 SDRAM, 256Mb	60-FBGA	5244.00/1,000		
MT47H128M4BT-37E:A TR	557-1044-1-ND	DDR2 SDRAM, 512Mb	92-FBGA	26.52	21.06	19.50

Micron FLASH

NAND Flash — RoHS Compliant

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT29F2G16AABWP-ET	557-1151-1-ND	2Gb, 128Mb x 16, 3.3V	48-TSOP	26.69	21.20	19.63
MT29F2G16AABWP-ET	557-1151-2-ND	2Gb, 128Mb x 16, 3.3V	48-TSOP	18369.00/1,000		
MT29F4G08BABWP	557-1152-1-ND	4Gb, 512Mb x 8, 3.3V	48-TSOP	52.52	41.38	39.79
MT29F4G16BABWP	557-1154-1-ND	4Gb, 512Mb x 16, 3.3V	48-TSOP	47.03	37.05	35.63

Micron PSRAM

Micron Technology Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MT45W1MW16BABB-706 WT TR	557-1006-1-ND	Async./Page/Burst CellularRAM, 16Mb	54-VFBGA	5.04	3.48	3.20
MT45W1MW16BABB-706 WT TR	557-1006-2-ND	Async./Page/Burst CellularRAM, 16Mb	54-VFBGA	5880.00/2,000		
MT45W2MW16BABB-706 WT TR	557-1007-1-ND	Async./Page/Burst CellularRAM, 32Mb	54-VFBGA	5.99	4.14	3.80
MT45W2MW16BABB-706 WT TR	557-1007-2-ND	Async./Page/Burst CellularRAM, 32Mb	54-VFBGA	6982.00/2,000		
MT45W4MW16BBB-706 WT TR	557-1008-1-ND	Async./Page/Burst CellularRAM, 64Mb	54-VFBGA	9.50	7.00	6.50
MT45W4MW16BBB-706 WT TR	557-1008-2-ND	Async./Page/Burst CellularRAM, 64Mb	54-VFBGA	12000.00/2,000		
MT45W4MW16BBB-708 WT TR	557-1009-1-ND	Async./Page/Burst CellularRAM, 64Mb	54-VFBGA	9.50	7.00	6.50
MT45W4MW16BCGB-708 WT TR	557-1172-1-ND	Async./Page/Burst CellurlarRAM, 1.0 Memory*	54-VFBGA	9.06	6.81	6.25
MT45W4MW16BCGB-708 WT TR	557-1172-2-ND	Async./Page/Burst CellurlarRAM, 1.0 Memory*	54-VFBGA	11428.00/2,000		
MT45W8MW16BGX-708 WT TR	557-1010-1-ND	Async./Page/Burst CellularRAM, 128Mb	54-VFBGA	8.98	7.19	6.67
MT45W8MW16BGX-708 WT TR	557-1010-2-ND	Async./Page/Burst CellularRAM, 128Mb	54-VFBGA	6028.00/1,000		

MEMORY

FLASH MEMORY

Toshiba

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC58FVT160AFT-70-ND	16M-Bit 3V CMOS (2M x 8 / 1M x 16) Top Boot Block	48-TSOP	3.94	3.15	2.45
TC58FVM5B2ATG65CAH-ND	32M-Bit 3V NOR CMOS (4M x 8 / 2M x 16) Bottom Boot Block*	48-TSOP	6.50	5.20	4.39
TC58FVM5T2ATG65CAH-ND	32M-Bit 3V NOR CMOS (4M x 8 / 2M x 16) Top Boot Block*	48-TSOP	6.50	5.20	4.39
TC58FVM6T5BTG65-ND	64M-Bit 3V NOR CMOS (8M x 8 / 4M x 16) Top Boot Block*	48-TSOP	8.00	6.40	5.40
TC58FVM6B5BTG65-ND	64M-Bit 3V NOR CMOS (8M x 8 / 4M x 16) Bottom Boot Block*	48-TSOP	8.00	6.40	5.40
TC58FVM7B2ATG-65-ND	128M-Bit 3V NOR CMOS (16M x 8 / 8M x 16) Bottom Boot Block	56-TSOP	10.83	9.75	8.65
TC58FVM7B5BTG-65-ND	128M-Bit 3V NOR CMOS (16M x 8 / 8M x 16) Bottom Boot Block* ***NEW!***	56-TSOP	10.33	9.30	8.25
TC58FVM7T5BTG65-ND	128M-Bit 3V NOR CMOS (16M x 8 / 8M x 16) Top Boot Block*	56-TSOP	10.33	9.30	8.25

SRAM

Toshiba

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
TC55NEM208AFGN55L-ND	4M-Bit SRAM (512K x 8)	32-SOP	5.18	4.14	3.22
TC55VEM416AXGN55-ND	16M-Bit SRAM (1M x 16)	48-BGA	16.50	15.40	14.30

Serial EEPROMs

Microchip Technology

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AC812001-ND	PICSEE™ Introduction Design Kit	—	330.00	—	—
DV243002-ND	SEEPROM Designer's Development Kit	—	99.99	—	—
SEEPROM1-KIT-ND	Digi-Key® Low-Density Serial EEPROM Kit	—	17.95	—	—
SEEPROM2-KIT-ND	Digi-Key® Mid-Density Serial EEPROM Kit	—	17.95	—	—
SEEPROM3-KIT-ND	Digi-Key® High-Density Serial EEPROM Kit	—	19.95	—	—
SEEPROM4-KIT-ND	Digi-Key® Combo-Density Serial EEPROM Kit	—	29.95	—	—

2 Wire Interface

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
24AA00-I/P-ND	16x8 I^{2}C Serial EEPROM 1.8V	8-Dip	.43	.35	.30
24AA00-I/SN-ND	16x8 I^{2}C Serial EEPROM 1.8V	8-SOIC	.45	.32	.27
24AA00-I/ST-ND	16x8 I^{2}C Serial EEPROM 1.8V	8-TSSOP	.48	.39	.33
24AA00T-I/OTCT-ND	16x8 I^{2}C Serial EEPROM 1.8V	SOT-23-5	.50	.45	.41
24AA00T-I/OTTR-ND	16x8 I^{2}C Serial EEPROM 1.8V	SOT-23-5	810.00/3,000		
24LC00/P-ND	16x8 I^{2}C Serial EEPROM 2.5V	8-Dip	.36	.32	.27
24LC00/SN-ND	16x8 I^{2}C Serial EEPROM 2.5V	8-SOIC	.38	.32	.27
24LC00-I/P-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.36	.32	.27
24LC00-I/SN-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.38	.32	.27
24LC00-I/ST-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.43	.39	.33
24LC00T-I/MCCT-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.59	.53	.48
24LC00T-I/MCTR-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1254.00/3,300		
24LC00T-I/OTCT-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.50	.45	.41
24LC00T-I/OTTR-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	810.00/3,000		
24C00/P-ND	16x8 I^{2}C Serial EEPROM 5V	8-Dip	.36	.32	.27
24C00-I/P-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	8-Dip	.40	.35	.30
24C00-I/SN-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	8-SOIC	.43	.32	.27
24C00-I/ST-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.48	.39	.33
24C00T-I/MCCT-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	.59	.53	.48
24C00T-I/MCTR-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	1254.00/3,300		
24C00T-I/OTCT-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	SOT-23-5	.50	.45	.41
24C00T-I/OTTR-ND	16x8 I^{2}C Serial EEPROM, Ind. Temp. 5V	SOT-23-5	810.00/3,000		
24AA01-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.55	.45	.38
24AA01-I/P-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.50	.42	.35
24AA01-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.53	.39	.33
24AA01-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.55	.45	.38
24AA01T-I/OTCT-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	.56	.50	.45
24AA01T-I/OTTR-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	990.00/3,000		
24LC01B/P-ND	1K (128x8) I^{2}C Serial EEPROM 2.5V	8-Dip	.45	.35	.30
24LC01B/SN-ND	1K (128x8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.48	.35	.30
24LC01B-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.50	.42	.35
24LC01B-I/P-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.45	.35	.30
24LC01B-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.48	.35	.30
24LC01B-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.50	.42	.35
24LC01BT-I/MCCT-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.62	.55	.50
24LC01BT-I/MCTR-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1353.00/3,300		
24LC01BT-I/OTCT-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.53	.48	.43
24LC01BT-I/OTTR-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	900.00/3,000		
24LC01BT-I/SNCT-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.53	.48	.43
24LC01BT-I/SNTR-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	990.00/3,300		
24C01C/P-ND	1K (128x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-Dip	.63	.45	.38
24C01C/SN-ND	1K (128x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-SOIC	.65	.45	.38
24C01C-I/MS-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-MSOP	.88	.51	.44
24C01C-I/P-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-Dip	.70	.48	.41
24C01C-I/SN-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-SOIC	.73	.45	.38
24C01C-I/ST-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.78	.51	.44
24C01CT-I/MCCT-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	.92	.83	.75
24C01CT-I/MCTR-ND	1K (128x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	1617.00/3,300		
24AA02-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.63	.48	.41
24AA02-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.55	.45	.38
24AA02-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.60	.42	.35
24AA02-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.63	.48	.41
24AA02T-I/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	.67	.60	.54
24AA02T-I/OTTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	1050.00/3,000		
24AA025T-I/MCCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.81	.75	.71
24AA025T-I/MCTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1979.98/3,300		
24LCS52T-I/MCCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.2V	8-DFN	.92	.83	.75
24LCS52T-I/MCTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.2V	8-DFN	1815.00/3,300		

***** RoHS Compliant*

(Continued)

MEMORY *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
24LC02B/P-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V	8-Dip	.50	.45	.38
24LC02B/SN-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.54	.42	.35
24LC02B/ST-ND	2K (256x8) I^{2}C Serial EEPROM 2.5V	8-TSSOP	.56	.48	.41
24LC02B-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.63	.48	.41
24LC02B-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.50	.42	.35
24LC02B-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.54	.42	.35
24LC02B-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.56	.48	.41
24LC02BT-I/MCCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.76	.68	.61
24LC02BT-I/MCTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1518.00/3,300		
24LC02BT-I/OTCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.67	.60	.54
24LC02BT-I/OTTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	1050.00/3,000		
24C02C/P-ND	2K (256x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-Dip	.68	.45	.38
24C02C/SN-ND	2K (256x8) I^{2}C Serial EEPROM 5V (fast byte write)	8-SOIC	.70	.45	.38
24C02C-I/MS-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-MSOP	.85	.51	.44
24C02C-I/P-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8Dip	.75	.48	.41
24C02C-I/SN-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-SOIC	.78	.45	.38
24C02C-I/ST-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.83	.51	.44
24C02CT-I/MCCT-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	.98	.88	.79
24C02CT-I/MCTR-ND	2K (256x8) I^{2}C Serial EEPROM, Ind. Temp. 5V	8-DFN	1617.00/3,300		
24AA04-I/MS-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.65	.48	.41
24AA04-I/P-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.60	.45	.38
24AA04-I/SN-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.63	.42	.35
24AA04-I/ST-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.65	.48	.41
24AA04T-I/OTCT-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	.70	.63	.57
24AA04T-I/OTTR-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	1050.00/3,000		
24LC04B/P-ND	4K (512x8) I^{2}C Serial EEPROM 2.5V	8-Dip	.54	.42	.35
24LC04B/SN-ND	4K (512x8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.56	.42	.35
24LC04B/ST-ND	4K (512x8) I^{2}C Serial EEPROM 2.5V	8-TSSOP	.59	.48	.41
24LC04B-I/P-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.54	.42	.35
24LC04B-I/SN-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.56	.42	.35
24LC04B-I/ST-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.59	.48	.41
24LC04B-I/MS-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.65	.48	.41
24LC04BT-I/MCCT-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.78	.70	.63
24LC04BT-I/MCTR-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1518.00/3,300		
24LC04BT-I/OTCT-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.70	.63	.57
24LC04BT-I/OTTR-ND	4K (512x8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	1050.00/3,000		
24AA08-I/MS-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.68	.55	.46
24AA08-I/P-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.63	.51	.44
24AA08-I/SN-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.65	.48	.41
24AA08-I/ST-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.68	.55	.46
24AA08T-I/OTCT-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	.73	.65	.59
24AA08T-I/OTTR-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	1230.00/3,000		
24LC08B/P-ND	8K (1Kx8) I^{2}C Serial EEPROM 2.5V	8-Dip	.63	.48	.41
24LC08B/SN-ND	8K (1Kx8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.65	.48	.41
24LC08B/ST-ND	8K (1Kx8) I^{2}C Serial EEPROM 2.5V	8-TSSOP	.68	.55	.46
24LC08B-I/MS-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.68	.55	.46
24LC08B-I/P-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.63	.48	.41
24LC08B-I/SN-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.65	.48	.41
24LC08B-I/ST-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.68	.55	.46
24LC08BT-I/MCCT-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.81	.73	.66
24LC08BT-I/MCTR-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1716.00/3,300		
24LC08BT-I/OTCT-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.73	.65	.59
24LC08BT-I/OTTR-ND	8K (1Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	1230.00/3,000		
24AA16-I/MS-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.78	.58	.49
24AA16-I/P-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.70	.55	.46
24AA16-I/SN-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.73	.51	.44
24AA16-I/ST-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.78	.58	.49
24AA16T-I/MCCT-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.92	.83	.75
24AA16T-I/MCTR-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1815.00/3,300		
24AA16T-I/OTCT-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	.81	.73	.66
24AA16T-I/OTTR-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	SOT-23-5	1320.00/3,000		
24LC16B/P-ND	16K (2Kx8) I^{2}C Serial EEPROM 2.5V	8 Dip	.63	.51	.44
24LC16B/SN-ND	16K (2Kx8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.65	.51	.44
24LC16B-E/SN-ND	16K (2Kx8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.81	.61	.52
24LC16B-I/MS-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.78	.58	.49
24LC16B-I/P-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.63	.51	.44
24LC16B-I/ST-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.70	.58	.49
24LC16B-I/SN-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.65	.51	.44
24LC16BT-I/MCCT-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.92	.83	.75
24LC16BT-I/MCTR-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1815.00/3,300		
24LC16BT-I/OTCT-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	.81	.73	.66
24LC16BT-I/OTTR-ND	16K (2Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	SOT-23-5	1320.00/3,000		
24AA32A-I/MS-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.03	.74	.63
24AA32A-I/P-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.95	.71	.60
24AA32A-I/SM-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.00	.71	.60
24AA32A-I/SN-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.98	.68	.57
24AA32A-I/ST-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.03	.74	.63
24AA32AT-I/MCCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1.15	1.03	.93
24AA32AT-I/MCTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	2243.95/3,300		
24AA32AT-I/MSCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.15	1.03	.93
24AA32AT-I/MSTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1575.00/2,500		
24LC32A/P-ND	32K (4Kx8) I^{2}C Serial EEPROM 2.5V	8-Dip	.86	.68	.57
24LC32A/SN-ND	32K (4Kx8) I^{2}C Serial EEPROM 2.5V	8-SOIC	.88	.68	.57
24LC32A-I/MS-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.03	.74	.63
24LC32A-I/P-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.86	.68	.57
24LC32A-I/SM-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.90	.68	.57
24LC32A-I/SN-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.88	.68	.57
24LC32A-I/ST-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.92	.74	.62
24LC32AT-I/MCCT-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1.15	1.03	.93
24LC32AT-I/MCTR-ND	32K (4Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	2243.95/3,300		
24AA64-I/MS-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.20	.87	.74
24AA64-I/P-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	1.10	.84	.71
24AA64-I/SM-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.15	.84	.71
24AA64-I/SN-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.13	.80	.68
24AA64-I/ST-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.20	.87	.74
24AA64T-I/MCCT-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1.40	1.25	1.13
24AA64T-I/MCTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	2607.00/3,300		
24LC64-I/MS-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.20	.87	.74
24LC64-I/P-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.99	.80	.68
24LC64-I/SM-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.04	.80	.68
24LC64-I/SN-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.01	.80	.68
24LC64-I/ST-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.08	.87	.74
24LC64T-I/MCCT-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1.40	1.25	1.13
24LC64T-I/MCTR-ND	64K (8Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	2607.00/3,300		

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
24AA65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 1.8V	8-Dip	2.76	2.54	2.15
24AA65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 1.8V	8-SOIC	2.59	2.54	2.15
24LC65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 2.5V	8-Dip	2.70	2.54	2.15
24LC65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 2.5V	8-SOIC	2.76	2.54	2.15
24LC65-I/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM, Ind. Temp 2.5V	8-Dip	2.70	2.57	2.18
24LC65-I/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM, Ind. Temp 2.5V	8-SOIC	2.76	2.54	2.15
24C65/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-Dip	2.76	2.54	2.15
24C65/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-SOIC	2.59	2.54	2.15
24C65-I/P-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-Dip	2.76	2.57	2.18
24C65-I/SM-ND	64K (8Kx8) Smart CMOS Serial EEPROM 5V	8-SOIC	2.82	2.57	2.18
24AA128-I/MF-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1.90	1.77	1.50
24AA128-I/MS-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.90	1.29	1.09
24AA128-I/P-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	1.73	1.25	1.06
24AA128-I/SM-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.80	1.25	1.06
24AA128-I/SN-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.78	1.22	1.04
24AA128-I/ST-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.90	1.35	1.15
24LC128-I/MF-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1.90	1.77	1.50
24LC128-I/MS-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.90	1.29	1.09
24LC128-I/P-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.55	1.22	1.04
24LC128-I/SM-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.80	1.25	1.06
24LC128-I/SN-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.60	1.22	1.04
24LC128-I/ST-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.71	1.35	1.15
24FC128-I/MF-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	2.03	1.83	1.55
24FC128-I/MS-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.95	1.35	1.15
24FC128-I/P-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.80	1.32	1.12
24FC128-I/SM-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.85	1.32	1.12
24FC128-I/SN-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.83	1.29	1.09
24FC128-I/ST-ND	128K (16Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.95	1.41	1.20
24AA256-I/MF-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	2.75	2.28	1.94
24AA256-I/MS-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	2.75	1.80	1.53
24AA256-I/P-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	2.50	1.77	1.50
24AA256-I/SM-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	2.55	1.77	1.50
24AA256-I/SN-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	2.53	1.74	1.47
24AA256-I/ST-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	2.75	1.80	1.53
24LC256-E/P-ND	256K (32Kx8) I^{2}C Serial EEPROM 2.5V	8-Dip	2.43	1.83	1.55
24LC256-I/MF-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	2.75	2.28	1.94
24LC256-I/MS-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	2.75	1.80	1.53
24LC256-I/P-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	2.25	1.74	1.47
24LC256-I/SM-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.30	1.74	1.47
24LC256-I/SN-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.27	1.74	1.47
24LC256-I/ST-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	2.48	1.80	1.69
24LC256T-I/MSCT-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	3.08	2.75	2.48
24LC256T-I/MSTR-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	3825.00/2,500		
24LC256T-I/SNCT-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.83	2.53	2.28
24LC256T-I/SNTR-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	4851.01/3,300		
24FC256-I/MF-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	2.80	2.35	1.99
24FC256-I/MS-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	2.80	1.86	1.58
24FC256-I/P-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	2.55	1.83	1.55
24FC256-I/SM-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.60	1.83	1.55
24FC256-I/SN-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.05	1.80	1.53
24FC256-I/ST-ND	256K (32Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	2.80	1.86	1.58
24AA512-I/MF-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	4.20	3.70	3.14
24AA512-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-Dip	3.80	3.18	2.70
24AA512-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	3.88	3.18	2.70
24AA512-I/ST14-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	14-TSSOP	4.20	3.47	2.95
24AA512T-I/MFCT-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	4.70	4.20	3.78
24AA512T-I/MFTR-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V	8-DFN	10362.00/3,300		
24LC512-I/MF-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	4.20	3.70	3.14
24LC512-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	3.80	3.18	2.70
24LC512-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	3.88	3.18	2.70
24LC512-I/ST14-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	14-TSSOP	4.20	3.47	2.95
24FC512-I/MF-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-DFN	4.25	3.76	3.19
24FC512-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	3.88	3.25	2.75
24FC512-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	3.93	3.25	2.75
24FC512-I/ST14-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	14-TSSOP	4.25	3.54	3.00
24FC515-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	4.68	4.56	3.87
24FC515-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	4.73	4.56	3.87
24LC515-I/P-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-Dip	4.62	4.50	3.82
24LC515-I/SM-ND	512K (64Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	4.68	4.50	3.82
24LC21/P-ND	1K Dual Mode DDC™/DDC2™ for Monitors	8-Dip	.65	.61	.52
24LC21/SN-ND	1K Dual Mode DDC™/DDC2™ for Monitors	8-SOIC	.61	.56	.47
24AA1025-I/P-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V ***NEW!***	8-Dip	8.85	6.78	5.75
24AA1025-I/SM-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 1.8V ***NEW!***	8-SOIC	8.85	6.78	5.75
24FC1025-I/P-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	8-Dip	8.95	6.85	5.81
24FC1025-I/SM-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	8-SOIC	8.95	6.85	5.81
24FC1025T-I/SMCT-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	8-SOIC	10.02	8.95	8.06
24FC1025T-I/SMTR-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	8-SOIC	12201.04/2,100		
24LC1025-I/P-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	8-Dip	8.85	6.78	5.75
24LC1025-I/SM-ND	1024K (128Kx8) I^{2}C Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	8-SOIC	8.85	6.78	5.75

SPI Serial EEPROMS

Digi-Key Part No.	Description	Pkg.	1	25	100
25AA040-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.85	.80	.68
25AA040-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.88	.77	.65
25LC040/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.79	.77	.65
25LC040/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.81	.77	.65
25LC040-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.88	.80	.68
25LC040-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.90	.77	.65
25LC040X/ST-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.93	.84	.71
25C040/SN-ND	4K (512x8) CMOS Serial EEPROM 5V	8-SOIC	.81	.77	.65
25C040-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.88	.80	.68
25C040-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.90	.77	.65
25C040X-I/ST-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.93	.84	.71

(Continued)

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MEMORY *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
25AA080/P-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V	8-Dip	1.32	1.25	1.06
25AA080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 1.8V	8-SOIC	1.27	1.22	1.04
25AA080-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	1.32	1.25	1.06
25AA080-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.38	1.22	1.04
25AA080A-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.10	.87	.74
25AA080A-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.99	.84	.71
25AA080A-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.04	.80	.68
25AA080A-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.10	.87	.74
25AA080B-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.10	.87	.74
25AA080B-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.99	.84	.71
25AA080B-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.04	.80	.68
25AA080B-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.10	.87	.74
25LC080/P-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.21	1.13	.95
25LC080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.27	1.13	.95
25LC080-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.32	1.25	1.06
25LC080-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.38	1.22	1.04
25LC080A-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.10	.87	.74
25LC080A-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.99	.84	.71
25LC080A-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.04	.80	.68
25LC080A-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.10	.87	.74
25LC080B-I/MS-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	1.23	.87	.74
25LC080B-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.10	.84	.71
25LC080B-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.15	.80	.68
25LC080B-I/ST-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.23	.87	.74
25C080/P-ND	8K (1Kx8) CMOS Serial EEPROM 5V	8-Dip	1.21	1.13	.95
25C080/SN-ND	8K (1Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.27	1.13	.95
25C080-I/P-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	1.32	1.25	1.06
25C080-I/SN-ND	8K (1Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	1.27	1.13	.95
25AA160-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	1.38	1.29	1.09
25AA160-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.41	1.25	1.06
25AA160A-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.10	.90	.76
25AA160A-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.99	.87	.74
25AA160A-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.04	.84	.71
25AA160A-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.10	.90	.76
25AA160B-I/MS-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	1.10	.90	.76
25AA160B-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.99	.87	.74
25AA160B-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.04	.84	.71
25AA160B-I/ST-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	1.10	.90	.76
25LC160/P-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.15	1.13	.95
25LC160/SN-ND	16K (2Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.41	1.25	1.06
25LC160-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.38	1.29	1.09
25LC160-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.41	1.25	1.06
25LC160A-I/MS-ND	16K (2Kx8) CMOS Serial EERPOM, Ind. Temp. 2.5V	8-MSOP	1.10	.90	.76
25LC160A-I/P-ND	16K (2Kx8) CMOS Serial EERPOM, Ind. Temp. 2.5V	8-Dip	.99	.87	.74
25LC160A-I/SN-ND	16K (2Kx8) CMOS Serial EERPOM, Ind. Temp. 2.5V	8-SOIC	1.04	.84	.71
25LC160A-I/ST-ND	16K (2Kx8) CMOS Serial EERPOM, Ind. Temp. 2.5V	8-TSSOP	1.10	.90	.76
25LC160B-I/MS-ND	16K (2Kx8) CMOS Serial EERPOM, Ind. Temp. 2.5V	8-MSOP	1.10	.90	.76
25LC160B-I/P-ND	16K (2Kx8) CMOS Serial EERPOM, Ind. Temp. 2.5V	8-Dip	.99	.87	.74
25LC160B-I/SN-ND	16K (2Kx8) CMOS Serial EERPOM, Ind. Temp. 2.5V	8-SOIC	1.04	.84	.71
25LC160B-I/ST-ND	16K (2Kx8) CMOS Serial EERPOM, Ind. Temp. 2.5V	8-TSSOP	1.10	.90	.76
25C160/P-ND	16K (2Kx8) CMOS Serial EEPROM 5V	8-Dip	1.15	1.13	.95
25C160/SN-ND	16K (2Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.18	1.13	.95
25C160-I/P-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	1.15	1.13	.95
25C160-I/SN-ND	16K (2Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	1.41	1.25	1.06
25AA256-I/MF-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	3.65	3.28	2.78
25AA256-I/P-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	2.88	2.54	2.15
25AA256-I/SM-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V ***NEW!***	8-SOIC	2.90	2.54	2.15
25AA256-I/SN-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	2.90	2.51	2.13
25AA256-I/ST-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	3.15	2.57	2.18
25LC256-I/MF-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	3.65	3.28	2.78
25LC256-I/P-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	2.88	2.54	2.15
25LC256-I/SM-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V ***NEW!***	8-SOIC	2.90	2.54	2.15
25LC256-I/SN-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2.90	2.51	2.13
25LC256-I/ST-ND	256K (32Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	3.15	2.57	2.18
25AA320-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	1.18	.96	.82
25AA320-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	1.08	.93	.79
25AA320X-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM 1.8V	8-TSSOP	1.28	1.00	.85
25LC320/P-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-Dip	1.04	.93	.79
25LC320/SN-ND	32K (4Kx8) CMOS Serial EEPROM 2.5V	8-SOIC	1.06	.93	.79
25LC320-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.18	.96	.82
25LC320-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.20	.93	.79
25LC320X-I/ST-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.25	1.00	.85
25C320/P-ND	32K (4Kx8) CMOS Serial EEPROM 5V	8-Dip	1.44	.93	.79
25C320/SN-ND	32K (4Kx8) CMOS Serial EEPROM 5V	8-SOIC	1.46	.93	.79
25C320-I/P-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	1.60	.96	.82
25C320-I/SN-ND	32K (4Kx8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	1.63	.93	.79
25AA640-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.20	.96	.82
25AA640-I/SN-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.23	.93	.79
25AA640X-I/ST-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	1.30	1.00	.85
25LC640-I/P-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	1.08	.96	.82
25LC640-I/SN-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.10	.93	.79
25LC640T-I/SNCT-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.37	1.23	1.11
25LC640T-I/SNTR-ND	64K (8Kx8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	2606.99/3,300		
25AA1024-I/MF-ND	1M (128Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	6.71	5.79	4.91
25AA1024-I/P-ND	1M (128Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	5.78	5.05	4.28
25AA1024-I/SM-ND	1M (128Kx8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	5.78	5.05	4.28

3 Wire Interface

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
93AA46/P-ND	1K (128x8 or 64x16) CMOS Serial EEPROM 1.8V-5.5V	8-Dip	.78	.71	.60
93AA46/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM 1.8V-5.5V	8-SOIC	.84	.71	.60
93AA46-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-SOIC	.84	.71	.60
93AA46AT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	.67	.60	.54
93AA46AT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	1452.00/3,300		
93AA46AT-I/OTCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	SOT-23-6	.53	.48	.43
93AA46AT-I/OTTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	SOT-23-6	990.00/3,000		
93AA46AX-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-SOIC	.48	.39	.33
93AA46BT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	.59	.53	.48
93AA46BT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	1452.00/3,300		
93AA46BT-I/OTCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	SOT-23-6	.53	.48	.43
93AA46BT-I/OTTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	SOT-23-6	990.00/3,000		
93AA46CT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	.73	.65	.59
93AA46CT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-DFN	1451.99/3,300		
93AA46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-MSOP	.48	.45	.38
93AA46A-I/P-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-Dip	.43	.42	.35
93AA46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-SOIC	.43	.39	.33
93AA46A-I/ST-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-TSSOP	.48	.45	.38
93AA46B-I/MS-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-MSOP	.48	.45	.38
93AA46B-I/P-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-Dip	.43	.39	.33
93AA46B-I/SN-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-SOIC	.50	.39	.33
93AA46B-I/ST-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-TSSOP	.48	.45	.38
93AA46C-I/MS-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-MSOP	.60	.45	.38
93AA46C-I/P-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-Dip	.50	.42	.35
93AA46C-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-SOIC	.50	.39	.33
93AA46C-I/ST-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 1.8V-5.5V	8-TSSOP	.60	.45	.38
93LC46/P-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-Dip	.78	.71	.60
93LC46A/P-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-Dip	.45	.39	.33
93LC46A/SN-ND	1K (128x8) CMOS Serial EEPROM 2.5V-5.5V	8-SOIC	.47	.39	.33
93LC46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-MSOP	.48	.45	.38
93LC46-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-SOIC	.84	.71	.60
93LC46B-I/MS-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-MSOP	.53	.45	.38
93LC46B-I/P-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-Dip	.43	.39	.33
93LC46B-I/SN-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-SOIC	.45	.39	.33
93LC46B-I/ST-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-TSSOP	.53	.45	.38
93LC46B/P-ND	1K (64x16) CMOS Serial EEPROM 2.5V-5.5V	8-Dip	.43	.39	.33
93LC46B/SN-ND	1K (64x16) CMOS Serial EEPROM 2.5V-5.5V	8-SOIC	.45	.39	.33
93LC46BT-I/MCCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-DFN	.70	.63	.57
93LC46BT-I/MCTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-DFN	1452.00/3,300		
93LC46BT-I/OTCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	SOT-23-6	.53	.48	.43
93LC46BT-I/OTTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	SOT-23-6	990.00/3,000		
93LC46BT-I/SNCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-SOIC	.56	.50	.45
93LC46BT-I/SNTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-SOIC	1089.00/3,300		
93LC46BT-I/STCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-TSSOP	.59	.53	.48
93LC46BT-I/STTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-TSSOP	950.00/2,500		
93LC46C-I/MS-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-MSOP	.60	.45	.38
93LC46C-I/P-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-Dip	.50	.42	.35
93LC46C-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-SOIC	.50	.39	.33
93LC46C-I/ST-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-TSSOP	.60	.45	.38
93LC46CT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-DFN	.73	.65	.59
93LC46CT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V-5.5V	8-DFN	1451.99/3,300		
93LC46A-I/P-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-Dip	.45	.39	.33
93LC46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-SOIC	.47	.39	.36
93LC46A-I/ST-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-TSSOP	.55	.45	.38
93LC46AT-I/MCCT-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-DFN	.67	.60	.54
93LC46AT-I/MCTR-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	8-DFN	1452.00/3,300		
93LC46AT-I/OTCT-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	SOT-23-6	.53	.48	.43
93LC46AT-I/OTTR-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp 2.5V-5.5V	SOT-23-6	990.00/3,000		
93C46A-I/MS-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-MSOP	.48	.45	.38
93C46A-I/P-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-Dip	.43	.39	.33
93C46A-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-SOIC	.43	.39	.33
93C46A-I/ST-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-TSSOP	.48	.45	.38
93C46AT-I/MCCT-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	.62	.55	.50
93C46AT-I/MCTR-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	1452.00/3,300		
93C46AT-I/OTCT-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	SOT-23-6	.53	.48	.43
93C46AT-I/OTTR-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	SOT-23-6	990.00/3,000		
93C46AX-I/SN-ND	1K (128x8) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-SOIC	.43	.39	.33
93C46B-I/MS-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-MSOP	.48	.45	.38
93C46B-I/ST-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-TSSOP	.53	.45	.38
93C46BT-I/MCCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	.64	.58	.52
93C46BT-I/MCTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	1452.00/3,300		
93C46BT-I/OTCT-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	SOT-23-6	.56	.50	.45
93C46BT-I/OTTR-ND	1K (64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	SOT-23-6	990.00/3,000		

(Continued)

MEMORY *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
93C46C-I/MS-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-MSOP	.60	.45	.38
93C46C-I/P-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-Dip	.50	.42	.35
93C46C-I/SN-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-SOIC	.50	.39	.33
93C46C-I/ST-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-TSSOP	.60	.45	.38
93C46CT-I/MCCT-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	.73	.65	.59
93C46CT-I/MCTR-ND	1K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 4.5V-5.5V	8-DFN	1451.99/3,300		
93AA56A-I/MS-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.65	.48	.41
93AA56A-I/P-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.55	.45	.38
93AA56A-I/SN-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.55	.42	.35
93AA56A-I/ST-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.65	.48	.41
93AA56AT-I/MCCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.78	.70	.63
93AA56AT-I/MCTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1517.95/3,300		
93AA56AT-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.62	.55	.50
93AA56AT-I/OTTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1050.00/3,000		
93AA56B-I/MS-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.65	.48	.41
93AA56B-I/P-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.55	.45	.38
93AA56B-I/SN-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.55	.42	.35
93AA56B-I/ST-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.65	.48	.41
93AA56BT-I/MCCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.78	.70	.63
93AA56BT-I/MCTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1517.95/3,300		
93AA56BT-I/OTCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.62	.55	.50
93AA56BT-I/OTTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1050.00/3,000		
93AA56C-I/MS-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.65	.48	.41
93AA56C-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.55	.45	.38
93AA56C-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.55	.42	.35
93AA56C-I/ST-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.65	.48	.41
93AA56CT-I/MCCT-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.78	.70	.63
93AA56CT-I/MCTR-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1517.95/3,300		
93AA56/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 1.8V	8-SOIC	1.02	.80	.68
93LC56/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 2.5V	8-Dip	.96	.80	.68
93LC56/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM 2.5V	8-SOIC	1.02	.80	.68
93LC56-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.96	.80	.68
93LC56-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.02	.80	.68
93LC56A/P-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-Dip	.47	.42	.35
93LC56A/SN-ND	2K (256x8) CMOS Serial EEPROM 2.5V	8-SOIC	.50	.42	.35
93LC56A-I/MS-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.55	.48	.41
93LC56A-I/P-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.47	.42	.35
93LC56A-I/ST-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.60	.48	.41
93LC56AT-I/MCCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.73	.65	.59
93LC56AT-I/MCTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1517.97/3,300		
93LC56AT-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.53	.48	.43
93LC56AT-I/OTTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	1050.00/3,000		
93LC56C-I/MS-ND	2K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.65	.48	.41
93LC56C-I/P-ND	2K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.55	.45	.38
93LC56C-I/SN-ND	2K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.55	.42	.35
93LC56C-I/ST-ND	2K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.65	.48	.41
93LC56CT-I/MCCT-ND	2K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.73	.65	.59
93LC56CT-I/MCTR-ND	2K (128x8 or 64x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1517.97/3,300		
93LC56B/P-ND	2K (128x16) CMOS Serial EEPROM 2.5V	8-Dip	.47	.42	.35
93LC56B/SN-ND	2K (128x16) CMOS Serial EEPROM 2.5V	8-SOIC	.50	.42	.35
93LC56B-I/MS-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.65	.48	.41
93LC56B-I/P-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.53	.42	.35
93LC56B-I/SN-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.50	.42	.35
93LC56B-I/ST-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.54	.48	.41
93LC56BT-I/MCCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.73	.65	.59
93LC56BT-I/MCTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1517.97/3,300		
93LC56BT-I/OTCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.62	.55	.50
93LC56BT-I/OTTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	1050.00/3,000		
93C56B-I/P-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.55	.45	.38
93C56B-I/SN-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.55	.42	.35
93C56B-I/ST-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.65	.48	.41
93C56BT-I/MCCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	.78	.70	.63
93C56BT-I/MCTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	1517.95/3,300		
93C56BT-I/OTCT-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	.62	.55	.50
93C56BT-I/OTTR-ND	2K (128x16) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	1050.00/3,000		
93C56A-I/MS-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-MSOP	.65	.48	.41
93C56A-I/P-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.55	.45	.38
93C56A-I/SN-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.55	.42	.35
93C56A-I/ST-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.65	.48	.41
93C56AT-I/MCCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	.78	.70	.63
93C56AT-I/MCTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	1517.95/3,300		
93C56AT-I/OTCT-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	.62	.55	.50
93C56AT-I/OTTR-ND	2K (256x8) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	1050.00/3,000		
93C56C-I/MS-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-MSOP	.65	.48	.41
93C56C-I/P-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.55	.45	.38
93C56C-I/SN-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.55	.42	.35
93C56C-I/ST-ND	2K (256x8 or 128x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.65	.48	.41

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
93AA66BT-I/MCCT-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.81	.73	.66
93AA66BT-I/MCTR-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1616.95/3,300		
93AA66/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 1.8V	8-Dip	.96	.80	.68
93AA66/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 1.8V	8-SOIC	1.02	.80	.68
93AA66A-I/MS-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.68	.51	.44
93AA66A-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.60	.48	.41
93AA66A-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.60	.45	.38
93AA66A-I/ST-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.68	.51	.44
93AA66AT-I/MCCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.81	.73	.66
93AA66AT-I/MCTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1616.95/3,300		
93AA66AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.67	.60	.54
93AA66AT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1140.00/3,000		
93AA66B-I/MS-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.68	.51	.44
93AA66B-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.60	.48	.41
93AA66B-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.60	.45	.38
93AA66B-I/ST-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.68	.51	.44
93AA66BT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.67	.60	.54
93AA66BT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1140.00/3,000		
93AA66C-I/MS-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.68	.51	.44
93AA66C-I/P-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.60	.48	.41
93AA66C-I/SN-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.60	.45	.38
93AA66C-I/ST-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.68	.51	.44
93AA66CT-I/MCCT-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-DFN	.81	.73	.66
93AA66CT-I/MCTR-ND	4K (512x8 or 256x16) Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1616.95/3,300		
93LC66/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 2.5V	8-Dip	.96	.80	.68
93LC66/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM 2.5V	8-SOIC	.99	.80	.68
93LC66C-I/MS-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.68	.51	.44
93LC66C-I/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.60	.48	.41
93LC66C-I/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.60	.45	.38
93LC66C-I/ST-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.68	.51	.44
93LC66CT-I/MCCT-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.81	.73	.66
93LC66CT-I/MCTR-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1616.95/3,300		
93LC66A/P-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-Dip	.56	.45	.38
93LC66A/SN-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-SOIC	.59	.45	.38
93LC66A/ST-ND	4K (512x8) CMOS Serial EEPROM 2.5V	8-TSSOP	.61	.51	.44
93LC66A-I/MS-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.68	.51	.44
93LC66A-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.56	.45	.38
93LC66A-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.59	.45	.38
93LC66A-I/ST-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.68	.51	.44
93LC66AT-I/MCCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.81	.73	.66
93LC66AT-I/MCTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1616.95/3,300		
93LC66AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.67	.60	.54
93LC66AT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	1140.00/3,000		
93LC66B/P-ND	4K (256x16) CMOS Serial EEPROM 2.5V	8-Dip	.56	.45	.38
93LC66B/SN-ND	4K (256x16) CMOS Serial EEPROM 2.5V	8-SOIC	.59	.45	.38
93LC66B-I/MS-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.68	.51	.44
93LC66B-I/P-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.56	.45	.38
93LC66B-I/SN-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.59	.45	.38
93LC66B-I/ST-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.68	.51	.44
93LC66BT-I/MCCT-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	.81	.73	.66
93LC66BT-I/MCTR-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1616.95/3,300		
93LC66BT-I/OTCT-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.67	.60	.54
93LC66BT-I/OTTR-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	1140.00/3,000		
93C66C-I/MS-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-MSOP	.68	.51	.44
93C66C-I/P-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.60	.48	.41
93C66C-I/SN-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.60	.45	.38
93C66C-I/ST-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.68	.51	.44
93C66CT-I/MCCT-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	.81	.73	.66
93C66CT-I/MCTR-ND	4K (512x8 or 256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	1616.95/3,300		
93C66B-I/MS-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-MSOP	.68	.51	.44
93C66B-I/P-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.60	.48	.41
93C66B-I/SN-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.60	.45	.38
93C66B-I/ST-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-TSSOP	.68	.51	.44
93C66BT-I/MCCT-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	.81	.73	.66
93C66BT-I/MCTR-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	1616.95/3,300		
93C66BT-I/OTCT-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	.67	.60	.54
93C66BT-I/OTTR-ND	4K (256x16) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	1140.00/3,000		
93C66A-I/MS-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-MSOP	.68	.51	.44
93C66A-I/P-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-Dip	.60	.48	.41
93C66A-I/SN-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-SOIC	.60	.45	.38
93C66AT-I/MCCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	.81	.73	.66
93C66AT-I/MCTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	8-DFN	1616.95/3,300		
93C66AT-I/OTCT-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	.67	.60	.54
93C66AT-I/OTTR-ND	4K (512x8) CMOS Serial EEPROM, Ind. Temp. 5V	SOT-23-6	1140.00/3,000		
93AA76AT-I/OTCT-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.90	.80	.72
93AA76AT-I/OTTR-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1560.00/3,000		
93AA76BT-I/OTCT-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	.90	.80	.72
93AA76BT-I/OTTR-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1560.00/3,000		
93AA76C-I/MS-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.81	.68	.57
93AA76C-I/P-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.80	.64	.55
93AA76C-I/SN-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.72	.61	.52
93AA76C-I/ST-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.81	.68	.57
93AA76CT-I/MCCT-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1.06	.95	.86
93AA76CT-I/MCTR-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	2079.00/3,300		

(Continued)

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MEMORY *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
93LC76C-I/MS-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.81	.68	.57
93LC76C-I/P-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.80	.64	.55
93LC76C-I/SN-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.72	.61	.52
93LC76C-I/ST-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.81	.68	.57
93LC76CT-I/MCCT-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1.06	.95	.86
93LC76CT-I/MCTR-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	2079.00/3,300		
93LC76AT-I/OTCT-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.90	.80	.72
93LC76AT-I/OTTR-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	1560.00/3,000		
93LC76BT-I/OTCT-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	.90	.80	.72
93LC76BT-I/OTTR-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	1560.00/3,000		
93C76AT-I/OTCT-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	.90	.80	.72
93C76AT-I/OTTR-ND	8K (1024x8) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	1560.00/3,000		
93C76BT-I/OTCT-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	.90	.80	.72
93C76BT-I/OTTR-ND	8K (512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	1560.00/3,000		
93C76C-I/MS-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-MSOP	.81	.68	.57
93C76C-I/P-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-Dip	.80	.64	.55
93C76C-I/SN-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-SOIC	.72	.61	.52
93C76C-I/ST-ND	8K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-TSSOP	.81	.68	.57
93AA86AT-I/OTCT-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1.01	.90	.81
93AA86AT-I/OTTR-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1710.00/3,000		
93AA86BT-I/OTCT-ND	16K (1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1.01	.90	.81
93AA86BT-I/OTTR-ND	16K (1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	SOT-23-6	1710.00/3,000		
93AA86C-I/MS-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-MSOP	.98	.74	.63
93AA86C-I/P-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-Dip	.90	.71	.60
93AA86C-I/SN-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-SOIC	.90	.68	.57
93AA86C-I/ST-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-TSSOP	.88	.74	.63
93AA86CT-I/MCCT-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	1.15	1.03	.93
93AA86CT-I/MCTR-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 1.8V	8-DFN	2244.00/3,300		
93LC86-I/SN-ND	16K (2Kx8 or 1Kx16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	1.53	1.29	1.09
93LC86AT-I/OTCT-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	1.01	.90	.81
93LC86AT-I/OTTR-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	1710.00/3,000		
93LC86BT-I/OTCT-ND	16K (1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	1.01	.90	.81
93LC86BT-I/OTTR-ND	16K (1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	SOT-23-6	1710.00/3,000		
93LC86C-I/MS-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-MSOP	.88	.74	.63
93LC86C-I/P-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-Dip	.81	.71	.60
93LC86C-I/SN-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-SOIC	.81	.68	.57
93LC86C-I/ST-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-TSSOP	.88	.74	.63
93LC86CT-I/MCCT-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	1.15	1.03	.93
93LC86CT-I/MCTR-ND	16K (2048x8 or 1024x16) CMOS Serial EEPROM, Ind. Temp. 2.5V	8-DFN	2244.00/3,300		
93C86AT-I/OTCT-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	1.01	.90	.81
93C86AT-I/OTTR-ND	16K (2048x8) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	1710.00/3,000		
93C86BT-I/OTCT-ND	16K (1024x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	1.01	.90	.81
93C86BT-I/OTTR-ND	16K (1024x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	SOT-23-6	1710.00/3,000		
93C86C-I/MS-ND	16K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-MSOP	.88	.74	.63
93C86C-I/P-ND	16K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-Dip	.81	.71	.60
93C86C-I/SN-ND	16K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-SOIC	.81	.68	.57
93C86C-I/ST-ND	16K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-TSSOP	.88	.74	.63
93C86CT-I/MCCT-ND	16K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-DFN	1.15	1.03	.93
93C86CT-I/MCTR-ND	16K (1024x8 or 512x16) CMOS Serial EEPROM, Ind. Temp. 4.5V	8-DFN	2244.00/3,300		

CYPRESS SRAM

Asynchronous SRAM

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY7C109B-20ZC	428-1036-ND	1M-Bit, 128Kx8, Power Down, 20nS	32-TSOP	2.88	2.31	1.80
CY7C109B-20ZXC	428-1781-ND	1M-Bit, 128Kx8, Power Down, 20nS* ***NEW!***	32-TSOP	3.56	2.85	2.22
CY7C128A-15VC	428-1040-ND	16K-Bit, 2Kx8, Power Down, 15nS	24-SOJ	4.05	3.24	2.52
CY7C128A-25PC	428-1043-ND	16K-Bit, 2Kx8, Power Down, 25nS	24-SDip	4.28	3.42	2.66
CY7C185-35VC	428-1058-ND	64K-Bit, 8Kx8, Power Down, 35nS	28-SOJ	2.52	2.02	1.57
CY7C1009B-12VC	428-1000-ND	1M-Bit, 125Kx8, Power Down, 12nS	32-SOJ	4.46	3.57	2.78
CY7C1009B-12VXC	428-1775-ND	1M-Bit, 125Kx8, Power Down, 12nS* ***NEW!***	32-SOJ	4.73	3.78	2.94
CY7C1009B-20VXC	428-1776-ND	1M-Bit, 128Kx8, Power Down, 20nS* ***NEW!***	32-SOJ	4.01	3.21	2.50
CY7C1019B-15VC	428-1004-ND	1M-Bit, 128Kx8, Power Down, 15nS	Wide 32-SOJ	3.20	2.56	1.99
CY7C1019CV33-12VC	428-1476-ND	1M-Bit, 128Kx8, 3.3V, Power Down, 12nS	32-SOJ	3.04	2.43	1.89
CY7C1020CV33-15ZXC	428-1730-ND	512K-Bit, 32Kx16, 3.3V, Power Down, 15nS*	44-TSOP2	2.96	2.37	2.00
CY7C1021B-15ZXC	428-1727-ND	1M-Bit, 64Kx16, Power Down, 15nS*	44-TSOP2	3.22	2.58	2.18
CY7C1021BV33L-15ZC	428-1018-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 15nS	44-TSOP2	5.40	4.32	3.36
CY7C1021BV33L-15ZXC	428-1777-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 15nS* ***NEW!***	44-TSOP2	5.51	4.41	3.43
CY7C1021CV33-10ZXC	428-1731-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 10nS*	44-TSOP2	2.84	2.28	1.92
CY7C1021CV33-12VC	428-1480-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 12nS	44-SOJ	2.84	2.27	1.77
CY7C1021CV33-12VXC	428-1732-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 12nS*	44-SOJ	2.58	2.07	1.75
CY7C1021CV33-15ZXC	428-1733-ND	1M-Bit, 64Kx16, 3.3V, Power Down, 15nS*	44-TSOP2	2.58	2.07	1.75
CY7C1041B-15ZXC	428-1778-ND	4M-Bit, 256Kx16, LP, Power Down, 15nS* ***NEW!***	44-TSOP2	9.00	7.20	5.60
CY7C1041CV33-12ZXC	428-1735-ND	4M-Bit, 256Kx16, Power Down, 12nS*	44-TSOP2	5.70	4.56	3.85
CY7C1041CV33-15VXC	428-1734-ND	4M-Bit, 256Kx16, 3.3V, Low Power, Power Down, 15nS*	44-SOJ	5.10	4.08	3.45
CY7C1041CV33-15ZXC	428-1736-ND	4M-Bit, 256Kx16, 3.3V, Low Power, Power Down, 15nS*	44-TSOP2	5.40	4.32	3.65
CY7C1041CV33-20ZXC	428-1713-ND	4M-Bit, 256Kx16, 3.3V, Low Power, Power Down, 20nS*	44-TSOP2	5.30	4.24	3.58
CY7C1049B-15VC	428-1025-ND	4M-Bit, 512Kx8, LP, Power Down, 15nS	36-SOJ	5.72	4.58	3.87
CY7C1049B-15VXC	428-1779-ND	4M-Bit, 512Kx8, LP, Power Down, 15nS* ***NEW!***	36-SOJ	8.21	6.57	5.11
CY7C1049B-20VC	428-1027-ND	4M-Bit, 512Kx8, LP, Power Down, 20nS	36-SOJ	5.20	4.16	3.51
CY7C1049B-20VXC	428-1780-ND 428-1780-ND	4M-Bit, 512Kx8, LP, Power Down, 20nS* ***NEW!***	36-SOJ	7.09	5.67	4.41
CY7C1049CV33-15VXC	428-1737-ND	4M-Bit, 512Kx8, 3.3V, LP, Power Down, 15nS*	36-SOJ	4.90	3.92	3.31
CY7C1049CV33-20VC	428-1488-5-ND	4M-Bit, 512Kx8, 3.3V, LP, Power Down, 20nS	36-SOJ	4.80	3.84	3.24
CY7C1049CV33-20VXC	428-1738-ND	4M-Bit, 512Kx8, 3.3V, LP, Power Down, 20nS*	36-SOJ	4.70	3.76	3.18
CY7C1399B-12VXC	428-1728-5-ND	256K-Bit, 32Kx8, 3.3V, Power Down, 12nS*	28-SOJ	2.18	1.75	1.48
CY7C1399B-12ZC	428-1049-ND	256K-Bit, 32Kx8, 3.3V, Power Down, 12nS	28-TSOP	2.52	2.02	1.57
CY7C1399B-12ZXC	428-1711-ND	256K-Bit, 32Kx8, 3.3V, Power Down, 12nS*	28-TSOP	1.94	1.56	1.31
CY7C1399B-15VC	428-1050-ND	256K-Bit, 32Kx8, 3.3V, Power Down, 15nS	28-SOJ	1.89	1.52	1.18
CY7C1399B-15VXC	428-1729-5-ND	256K-Bit, 32Kx8, 3.3V, Power Down, 15nS*	28-SOJ	1.72	1.38	1.17
CY7C1399B-15ZXC	428-1712-ND	256K-Bit, 32Kx8, 3.3V, Power Down, 15nS*	28-TSOP	1.84	1.48	1.25

Synchronous SRAM

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY7C1347G-133AXC	428-1741-ND	128Kx36, 3.3V Sync. Pipe SRAM*	100-TQFP	10.10	8.08	6.82
CY7C1350B-143AC	428-1100-ND	4M-Bit, 128Kx36, 3.3V Sync. Pipe SRAM	100-TQFP	9.75	8.78	7.79
CY7C1352F-133AC	428-1500-ND	256Kx18, 3.3V NoBL™ Sync. Pipe SRAM	100-TQFP	7.08	6.38	5.66
CY7C1352G-133AXC	428-1739-ND	256Kx18, 3.3V NoBL™ Sync. Pipe SRAM*	100-TQFP	9.96	7.97	6.73
CY7C1355B-100AC	428-1501-ND	256Kx36, 3.3V NoBL™ Sync. Flow Through SRAM	100-TQFP	14.28	12.86	11.40
CY7C1355C-100AXC	428-1628-ND	256Kx36, 3.3V NoBL™ Sync. Flow Through SRAM	100-TQFP	18.03	16.23	14.40
CY7C1370DV25-167AXC	428-1633-ND	512Kx36, 2.5V NoBL™ Sync. Pipe SRAM	100-TQFP	30.08	28.07	26.07
CY7C1371D-100AXC	428-1631-ND	512Kx36, 3.3V NoBL™ Sync. Flow Through SRAM	100-TQFP	30.08	28.07	26.07
CY7C1380D-167AXC	428-1629-ND	512Kx36, 3.3V Sync. Pipe SRAM	100-TQFP	30.08	28.07	26.07
CY7C1382D-167AXC	428-1632-ND	512Kx36, 3.3V Sync. Pipe SRAM	100-TQFP	30.08	28.07	26.07
CY7C1383C-100AC	428-1494-5-ND	18M-Bit, 1024Kx18, 3.3V Standard Sync. Flow Through SRAM	100-TQFP	28.20	26.32	24.44
CY7C1383D-100AXC	428-1630-ND	18M-Bit, 1024Kx18, 3.3V Standard Sync. Flow Through SRAM	100-TQFP	30.08	28.07	26.07
CY7C1386D-167AXC	428-1740-ND	18M-Bit, 512Kx36/1M-Bitx8, 3.3V Pipe DCD Sync. SRAM*	100-TQFP	40.10	32.08	27.07

Dual Port SRAM

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY7C006A-20AXC	428-1788-ND	128K-Bit, 16Kx8, Async. Power Down, 20nS* ***NEW!***	64-TQFP	22.05	20.58	19.11
CY7C006A-20JC	428-1142-ND	128K-Bit, 16Kx8, Async. Power Down, 20nS	68-PLCC	22.05	20.58	19.11
CY7C009V-15AC	428-1149-ND	1M-Bit, 128Kx8, 3.3V Async. Power Down, 15nS	100-TQFP	75.57	70.54	65.50
CY7C009V-15AXC	428-1786-ND	1M-Bit, 128Kx8, 3.3V Async. Power Down, 15nS* ***NEW!***	100-TQFP	100.76	80.61	68.02
CY7C024-15AC	428-1154-ND	64K-Bit, 4Kx16, 5V Async. Power Down, 15nS	100-TQFP	23.78	22.19	20.61
CY7C024-15AXC	428-1789-ND	64K-Bit, 4Kx16, 5V Async. Power Down, 15nS* ***NEW!***	100TQFP	23.78	22.19	20.61
CY7C024AV-25AC	428-1155-ND	64K-Bit, 4Kx16, 3.3V Async. Power Down, 25nS	100-TQFP	16.35	15.26	14.17
CY7C024AV-25AXC	428-1790-ND	64K-Bit, 4Kx16, 3.3V Async. Power Down, 25nS* ***NEW!***	100-TQFP	16.35	15.26	14.17
CY7C025-15AC	428-1157-ND	128K-Bit, 8Kx16, Async. Power Down Interrupt, Busy, 15nS	100-TQFP	28.43	26.53	24.64
CY7C025AV-20AC	428-1161-ND	128K-Bit, 8Kx16, 3.3V Async. Power Down Interrupt, Busy, 20nS	100-TQFP	25.23	23.55	21.87
CY7C025AV-20AXC	428-1752-ND	128K-Bit, 8Kx16, 3.3V Async. Power Down Interrupt, Busy, 20nS*	100-TQFP	33.64	26.92	22.71
CY7C026A-20AXC	428-1753-ND	256K-Bit, 16Kx16, Async. Power Down, 20nS*	100-TQFP	36.10	28.88	24.37
CY7C027V-15AC	428-1164-ND	512K-Bit, 32Kx16, 3.3V Async. Power Down, 15nS	100-TQFP	49.34	46.05	42.76
CY7C027V-15AXC	428-1754-ND	512K-Bit, 32Kx16, 3.3V Async. Power Down, 15nS*	100-TQFP	65.78	52.63	44.41
CY7C028-15AC	428-1443-ND	SRAM 64Kx16, Async. Power Down, 12nS	100-TQFP	72.29	67.47	62.65
CY7C028V-15AC	428-1165-ND	1M-Bit, 64Kx16, 3.3V Async. Power Down, 15nS	100-TQFP	72.29	67.47	62.65
CY7C028V-15AXC	428-1755-ND	1M-Bit, 64Kx16, 3.3V, Async. Power Down, 15nS*	100-TQFP	101.20	80.96	68.31
CY7C131-55JC	428-1196-ND	8K-Bit, 1Kx8, Async. Power Down Master 55nS	52-PLCC	6.90	5.52	4.66
CY7C131-55JXC	428-1791-ND	8K-Bit, 1Kx8, Async. Power Down Master 55nS* ***NEW!***	52-PLCC	6.90	5.52	4.66
CY7C138-25JC	428-1445-ND	32K-Bit, 4Kx8, Async. Master/Slave Power Down, 25nS	68-PLCC	29.93	27.93	25.94
CY7C09269V-12AC	428-1183-ND	256K-Bit, 16Kx16, 3.3V Sync. 3-Mode Power Down, 12nS	100-TQFP	30.03	28.03	26.03
CY7C09279-12AC	428-1184-ND	512K-Bit, 32Kx16, Sync. 3-Mode Power Down, 12nS	100-TQFP	37.95	35.42	32.89
CY7C09289V-12AC	428-1187-ND	1M-Bit, 64Kx16, 3.3V Sync. 3-Mode Power Down, 12nS	100-TQFP	54.41	50.78	47.16
CY7C09349A-12AC	428-1446-ND	64K-Bit, 4Kx18, Sync., Power Down, 12nS	100-TQFP	16.50	15.40	14.30
CY7C09449PV-AC	428-1188-ND	128K-Bit, 4Kx32, 3.3V Sync. SRAM PCI Controller	160-TQFP	31.32	29.24	27.15

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(Continued)

SRAM *(Continued)*

Low Power SRAM

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY6264-70SNC	428-1085-ND	64K-Bit, 8Kx8, Power Down SRAM	28-SOIC	4.55	3.64	2.83
CY6264-70SNXC	428-1785-ND	64K-Bit, 8Kx8, Power Down SRAM* ***NEW!***	28-SOIC	5.06	4.05	3.15
CY62128BLL-70SXC	428-1746-5-ND	1M-Bit, 128Kx8, Low Power, Power Down SRAM*	Wide 32-SOIC	3.16	2.53	2.14
CY62128BLL-70ZC	428-1072-ND	1M-Bit, 128Kx8, Low Power, Power Down SRAM	32-TSOP	4.01	3.21	2.50
CY62128BLL-70ZXI	428-1648-ND	1M-Bit, 128Kx8, Low Power, Power Down SRAM	32-TSOP	4.85	3.40	3.11
CY62128DV30LL-70SXI	428-1765-5-ND	1M-Bit, 128Kx8, 3.0V, Low Power, Power Down SRAM*	32-SOIC	6.20	4.96	4.19
CY62128DV30LL-70ZXI	428-1764-5-ND	1M-Bit, 128Kx8, 3.0V, Low Power, Power Down SRAM*	32-TSOP	6.50	5.20	4.39
CY62148BLL-70SXC	428-1747-5-ND	4M-Bit, 512Kx8, Low Power, Power Down SRAM*	Wide 32-SOIC	6.90	5.52	4.66
CY62148BLL-70ZI	428-1493-ND	4M-Bit, 512Kx8, Low Power, Power Down SRAM	32-TSOP	6.90	5.52	4.66
CY62148BLL-70ZXI	428-1787-ND	4M-Bit, 512Kx8, Low Power, Power Down SRAM* ***NEW!***	32-TSOP	9.99	8.00	6.22
CY62256L-70PC	428-1078-ND	256K-Bit, 32Kx8, Low Power, Power Down SRAM	28-Dip	3.40	2.72	2.12
CY62256L-70PXC	428-1782-ND	256K-Bit, 32Kx8, Low Power, Power Down SRAM* ***NEW!***	28-Dip	3.40	2.72	2.12
CY62256L-70SNC	428-1079-ND	256K-Bit, 32Kx8, Low Power, Power Down SRAM	28-SOIC	3.08	2.47	1.92
CY62256L-70SNXC	428-1783-ND	256K-Bit, 32Kx8, Low Power, Power Down SRAM* ***NEW!***	28-SOIC	3.40	2.72	2.12
CY62256LL-70PXC	428-1748-5-ND	256K-Bit, 32Kx8, Low Power, Power Down SRAM*	28-Dip	3.20	2.56	2.16
CY62256LL-70SNXC	428-1749-5-ND	256K-Bit, 32Kx8, Low Power, Power Down SRAM*	28-SOIC	3.06	2.45	2.07
CY62256LL-70ZXC	428-1750-5-ND	256K-Bit, 32Kx8, Low Power, Power Down SRAM*	28-TSOP	3.20	2.56	2.16
CY62256VLL-70SNC	428-1083-ND	256K-Bit, 32Kx8, 3.0V Low Power, Power Down SRAM	28-SOIC	2.45	1.97	1.53
CY62256VLL-70SNXC	428-1784-ND	256K-Bit, 32Kx8, 3.0V Low Power, Power Down SRAM* ***NEW!***	28-SOIC	2.70	2.16	1.68
CY62256VLL-70ZXC	428-1751-5-ND	256K-Bit, 32Kx8, 3.0V Low Power, Power Down SRAM*	28-TSOP	2.40	1.92	1.62

* ***RoHS Compliant***

FIFO

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY7C419-10JC	428-1203-ND	256x9, Async. Parallel-Cascade FIFO, 10nS	32-PLCC	6.78	5.43	4.58
CY7C419-10JXC	428-1756-5-ND	256x9, Async. Parallel-Cascade FIFO, 10nS*	32-PLCC	6.78	5.43	4.58
CY7C425-10JC	428-1227-ND	1Kx9, Async. Parallel-Cascade FIFO, 10nS	32-PLCC	9.36	7.49	6.32
CY7C425-10JXC	428-1760-5-ND	1Kx9, Async. Parallel-Cascade FIFO, 10nS*	32-PLCC	9.36	7.49	6.32
CY7C433-10JXC	428-1763-5-ND	4Kx9, Async. Parallel-Cascade FIFO, 10nS*	32-PLCC	14.24	11.40	9.62
CY7C460A-10JC	428-1251-ND	8Kx9, Async. Cascade FIFO, 10nS	32-PLCC	16.64	15.53	14.42
CY7C464A-15JC	428-1254-ND	32Kx9, Async. Cascade FIFO, 15nS	32-PLCC	27.38	25.55	23.73
CY7C466A-10JC	428-1255-ND	64Kx9, Async. Cascade FIFO, 10nS	32-PLCC	43.35	40.46	37.57
CY7C4201V-15AC	428-1206-ND	256x9, 3.3V Sync. FIFO, 15nS	32-TQFP	10.70	9.63	8.54
CY7C4201V-15AXC	428-1757-ND	256x9, 3.3V Sync. FIFO, 15nS*	32-TQFP	12.84	10.28	8.67
CY7C4205-10AC	428-1207-ND	256x18, Sync. FIFO, 10nS	64-TQFP	16.58	15.47	14.37
CY7C4211-15AC	428-1211-ND	512x9, Sync. FIFO, 10nS	32-TQFP	11.33	10.20	9.05
CY7C4225-15AC	428-1217-ND	1Kx18, Sync. FIFO, 15nS	64-TQFP	16.71	15.60	14.49
CY7C4225-15AXC	428-1758-ND	1Kx18, Sync. FIFO, 15nS*	64-TQFP	22.28	17.83	15.04
CY7C4225V-15ASC	428-1218-ND	1Kx18, 3.3V Sync. FIFO, 15nS	64-STQFP	16.71	15.60	14.49
CY7C4225V-15ASXC	428-1714-ND	1Kx18, 3.3V Sync. FIFO, 15nS*	64-STQFP	23.40	18.72	15.80
CY7C4231V-15JC	428-1220-ND	2Kx9, 3.3V Sync. FIFO, 15nS	32-PLCC	15.29	13.77	12.21
CY7C4231V-15JXC	428-1759-5-ND	2Kx9, 3.3V Sync. FIFO, 15nS*	32-PLCC	18.36	14.69	12.40
CY7C4235V-15ASC	428-1222-ND	2Kx18, 3.3V Sync. FIFO, 15nS	64-STQFP	19.77	18.46	17.14
CY7C4235V-15ASXC	428-1715-ND	2Kx18, 3.3V Sync. FIFO, 15nS*	64-STQFP	27.68	22.15	18.69
CY7C4241V-15JC	428-1224-ND	4Kx9, 3.3V Sync. FIFO, 15nS	32-PLCC	16.32	15.24	14.15
CY7C4245V-15ASXC	428-1716-ND	4Kx18, 3.3V Sync. FIFO, 15nS*	64-STQFP	31.46	25.17	21.24
CY7C4251-15AC	428-1228-ND	8Kx9, Sync. FIFO, 15nS	32-TQFP	18.53	17.29	16.06
CY7C4251-15AXC	428-1761-ND	8Kx9, Sync. FIFO, 15nS*	32-TQFP	24.70	19.76	16.68
CY7C4251V-15AC	428-1229-ND	8Kx9, 3.3V Sync. FIFO, 15nS	32-TQFP	18.53	17.29	16.06
CY7C4251V-15AXC	428-1762-ND	8Kx9, 3.3V Sync. FIFO, 15nS*	32-TQFP	24.70	19.76	16.68
CY7C4255-10AC	428-1230-ND	8Kx18, Deep Sync. FIFO, 10nS	64-TQFP	45.60	42.56	39.52
CY7C4261-15JC	428-1233-ND	16Kx9, Deep Sync. FIFO, 15nS	32-PLCC	37.65	35.14	32.63
CY7C4261V-10JC	428-1234-ND	16Kx9, 3.3V Deep Sync. FIFO, 10nS	32-PLCC	47.10	43.96	40.82
CY7C4271V-10JC	428-1238-ND	32Kx9, 3.3V Deep Sync. FIFO, 10nS	32-PLCC	60.48	56.45	52.42
CY7C4275-10ASC	428-1239-ND	32Kx18, Deep Sync. FIFO, 10nS	64-STQFP	85.65	79.94	74.23
CY7C4275V-10ASC	428-1240-ND	32Kx18, 3.3V Deep Sync. FIFO, 10nS	64-STQFP	85.65	79.94	74.23
CY7C4285V-10ASC	428-1242-ND	64Kx18, 3.3V Deep Sync. FIFO, 10nS	64-STQFP	113.58	106.01	98.44
CY7C4291-10JC	428-1244-ND	128Kx9, Deep Sync. FIFO, 10nS	32-PLCC	141.98	132.51	123.05

* ***RoHS Compliant***

BUFFERS

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY2305SXC-1	428-1766-5-ND	Zero Delay Buffer 3.3V Internal Feedback*	8-SOIC	1.30	1.04	.88
CY2305SXC-1H	428-1767-5-ND	Zero Delay Buffer 3.3V Internal Feedback*	8-SOIC	1.44	1.16	.98
CY2305SI-1	428-1347-ND	Zero Delay Buffer 3.3V Internal Feedback	8-SOIC	1.96	1.57	1.22
CY2305SXI-1	428-1792-ND	Zero Delay Buffer 3.3V Internal Feedback* ***NEW!***	8-SOIC	1.96	1.57	1.22
CY2305SI-1H	428-1349-ND	Zero Delay Buffer 3.3V Internal Feedback	8-SOIC	2.28	1.82	1.37
CY2308SC-1	428-1350-ND	Zero Delay Buffer 3.3V External Feedback	16-SOIC	2.75	2.20	1.71
CY2308SXC-1	428-1768-5-ND	Zero Delay Buffer 3.3V External Feedback *	16-SOIC	3.34	2.68	2.26
CY2308SC-2	428-1356-ND	Zero Delay Buffer 3.3V External Feedback	16-SOIC	2.52	2.02	1.57
CY2308SXC-2	428-1769-5-ND	Zero Delay Buffer 3.3V External Feedback *	16-SOIC	3.10	2.48	2.10
CY2308SC-1H	428-1352-ND	Zero Delay Buffer 3.3V External Feedback	16-SOIC	2.68	2.15	1.67
CY2308SI-4	428-1361-ND	Zero Delay Buffer 3.3V External Feedback	16-SOIC	8.34	6.68	5.63
CY2308SI-1H	428-1353-ND	Zero Delay Buffer 3.3V External Feedback	16-SOIC	1.96	1.57	1.33
CY2308ZI-1H	428-1355-ND	Zero Delay Buffer 3.3V External Feedback	16-TSSOP	4.50	3.60	2.80
CY2309SC-1	428-1365-ND	Zero Delay Buffer 3.3V Internal Feedback	16-SOIC	2.72	2.18	1.70
CY2309SC-1H	428-1367-ND	Zero Delay Buffer 3.3V Internal Feedback	16-SOIC	2.09	1.68	1.31
CY2309ZC-1H	428-1369-ND	Zero Delay Buffer 3.3V Internal Feedback	16-TSSOP	2.75	2.20	1.71
CY2309ZXC-1H	428-1793-ND	Zero Delay Buffer 3.3V Internal Feedback* ***NEW!***	16-TSSOP	4.88	3.91	3.04
CY2309ZI-1H	428-1370-ND	Zero Delay Buffer 3.3V Internal Feedback	16-TSSOP	4.88	3.91	3.04
CY7B991-2JC	428-1374-ND	Clock Buffer TTL Out	32-PLCC	16.61	14.96	13.27
CY7B991-5JC	428-1375-ND	Clock Buffer TTL Out	32-PLCC	10.25	9.23	8.18
CY7B991-7JC	428-1376-ND	Clock Buffer TTL Out	32-PLCC	9.10	8.19	7.27
CY7B991-7JXC	428-1717-5-ND	Clock Buffer TTL Out*	32-PLCC	13.44	10.76	9.08
CY7B992-2JC	428-1379-ND	Clock Buffer CMOS Out	32-PLCC	16.59	14.94	13.25
CY7B991V-2JC	428-1382-ND	Clock Buffer 3.3V	32-PLCC	14.93	13.44	11.92
CY7B991V-2JXC	428-1718-5-ND	Clock Buffer 3.3V*	32-PLCC	19.92	15.94	13.45
CY7B991V-7JXC	428-1770-5-ND	Clock Buffer 3.3V*	32-PLCC	13.44	10.76	9.08
CY7B993V-2AC	428-1385-ND	Clock Buffer 3.3V	100-TQFP	32.25	30.10	27.95
CY7B9920-5SC	428-1378-ND	Clock Buffer CMOS Out	24-SOIC	8.95	8.06	7.15
W256H	428-1399-ND	Clock Buffer 3.3V 12 Out DIMM 3SDRAM	28-SSOP	3.04	2.43	1.89

* ***RoHS Compliant***

CLOCK GENERATORS

Cypress Part No.	Digi-Key Part No.	Description	Pkg.	Price Each ★ 1	25	100
CY2292F	428-1393-ND	Clock Generator Sync. Field Programmable 3PLL 3.3V	16-SOIC	3.04	2.43	1.89
CY2292FXC	428-1745-5-ND	Clock Generatpr Sync. Field Programmable 3PLL 3.3V*	16-SOIC	2.70	2.16	1.83
CY22150FC	428-1387-ND	Clock Generator Sync. Serial/Flash 1PLL 3.3V	16-TSSOP	3.04	2.43	1.89
CY22381FC	428-1388-ND	Clock Generator Sync. Flash Programmable 3PLL 3.3V	8-SOIC	5.31	4.25	3.31
CY22381FXC	428-1742-ND	Clock Generator Sync. Flash Programmable 3PLL 3.3V*	8-SOIC	3.80	3.04	2.57
CY22392FC	428-1389-ND	Clock Generator Sync. Flash Programmable 3PLL 3.3V	16-TSSOP	4.20	3.36	2.84
CY22392FXC	428-1743-5-ND	Clock Generator Sync. Flash Programmable 3PLL 3.3V*	16-TSSOP	4.20	3.36	2.84
CY22393FC	428-1390-ND	Clock Generator Sync. Serial/Flash 3PLL 3.3V	16-TSSOP	6.84	5.48	4.62
CY22393FXC	428-1744-5-ND	Clock Generator Sync. Serial/Flash 3PLL 3.3V*	16-TSSOP	5.14	4.12	3.47
CY22394FC	428-1391-ND	Clock Generator Sync. Serial/Flash 3PLL 3.3V	16-TSSOP	5.14	4.12	3.47
W40S01-04H	428-1400-ND	Spread Spectrum Clock Generator SDRAM	8-SOIC	4.86	3.89	3.03
W42C31-03G	428-1397-ND	Frequency Generator Spectrum EMI Reduction SSCG	8-SOIC	4.05	3.24	2.52
W48C111-16H	428-1402-ND	Clock Generator Frequency Mod. SSCG, Celeron, PLL	28-SSOP	7.70	6.16	5.20
W234X	428-1398-ND	Clock Generator Direct Rambus™ 3.3V Dual	28-TSSOP	10.66	9.60	8.52

* ***RoHS Compliant***

NEW! INTERFACE

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
ATA6660-TAPCT-ND	High-Speed CAN Transceiver	8-SOIC	1.48	1.25	1.04
B10011S-MFPG1CT-ND	CAN Transceiver	16-SOIC	5.25	4.40	3.66
B10011S-MFPG1TR-ND	CAN Transceiver	16-SOIC	3538.00/1,000		
B10011S-MFPG1Y74CT-ND	CAN Transceiver	16-SOIC	5.14	4.12	3.47
B10011S-MFPG1Y74TR-ND	CAN Transceiver	16-SOIC	3213.00/1,000		
B10011S-MFPG3Y74CT-ND	CAN Transceiver	16-SOIC	5.49	4.40	3.42
B10011S-MFPG3Y74TR-ND	CAN Transceiver	16-SOIC	12688.00/4,000		
ATA2516-6AQYCT-ND	ASIC IR Receiver, 4.5 ~ 5.5V	8-TSSOP	2.15	1.72	1.29
ATA2516-6AQYTR-ND	ASIC IR Receiver, 4.5 ~ 5.5V	8-TSSOP	5805.00/5,000		
ATA2525P338H-6AQYCT-ND	ASSP IR Receiver, 4.5 ~ 5.5V	8-TSSOP	2.28	1.82	1.37
ATA2525P338H-6AQYTR-ND	ASSP IR Receiver, 4.5 ~ 5.5V	8-TSSOP	6142.50/5,000		
ATA6830-PKHCT-ND	Intelligent Stepper Motor Driver	28-QFN	5.40	4.52	3.77
ATA6830-PKHTR-ND	Intelligent Stepper Motor Driver	28-QFN	14560.00/4,000		
T6816-TIQCT-ND	Dual Hex Output Driver with Serial Input Control	28-SOIC	6.30	5.28	4.40
T6816-TIQTR-ND	Dual Hex Output Driver with Serial Input Control	28-SOIC	8498.00/2,000		
T6817-TKQCT-ND	Dual Triple DMOS Output Driver with Serial Input Control	20-SSOP	2.97	2.49	2.07
T6817-TKQTR-ND	Dual Triple DMOS Output Driver with Serial Input Control	20-SSOP	8004.00/4,000		
T6817-TKS-ND	Dual Triple DMOS Output Driver with Serial Input Control	20-SSOP	3.25	2.72	2.27
T6818-TUQCT-ND T6818-TUQCT-ND	Triple Half-Bridge DMOS Output Driver with Serial Input Control	14-SOIC	2.92	2.45	2.04
T6818-TUQTR-ND T6818-TUQTR-ND	Triple Half-Bridge DMOS Output Driver with Serial Input Control	14-SOIC	7888.00/4,000		
T6818-TUS-ND T6818-TUS-ND	Triple Half-Bridge DMOS Output Driver with Serial Input Control	14-SOIC	3.23	2.70	2.25
T6819-TBQCT-ND	Dual Triple DMOS Output Driver with Serial Input Control	16-SOIC	2.97	2.49	2.07
T6819-TBQTR-ND	Dual Triple DMOS Output Driver with Serial Input Control	16-SOIC	8004.00/4,000		
T6819-TBS-ND	Dual Triple DMOS Output Driver with Serial Input Control	16-SOIC	3.25	2.72	2.27
U6815BM-MFL-ND	Dual Hex DMOS Output Driver with Serial Input Control	28-SOIC	6.02	5.04	4.20

SERIAL EEPROMs

2-Wire Serial Interface EEPROMs

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT24C01A-10PI-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.84	.83	.75
AT24C01A-10PU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.70	.53	.40
AT24C01A-10PI-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.75	.73	.66
AT24C01A-10PU-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.66	.50	.38
AT24C01A-10TI-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.90	.89	.81

****RoHS Compliant***

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★		
			1	25	100
AT24C01A-10TU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	.94	.71	.53
AT24C01A-10TI-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.81	.79	.73
AT24C01A-10TU-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	.90	.68	.51
AT24C01A-10SI-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.84	.83	.75
AT24C01A-10SU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.70	.53	.40
AT24C01A-10SU-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.66	.50	.38
AT24C11-10PU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.66	.50	.38
AT24C11-10PU-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.62	.47	.35
AT24C11-10TI-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.82	.41	.35
AT24C11-10TU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	.90	.68	.51
AT24C11-10TI-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.78	.42	.33
AT24C11-10TU-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	.86	.65	.49
AT24C11N-10SU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.66	.50	.38
AT24C11N-10SI-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.74	.40	.31
AT24C11N-10SU-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.62	.47	.35
AT24C01AY110YI1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-MAP	.49	.37	.34
AT24C01AY110YI2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V	8-MAP	.43	.33	.30
AT24C01AY1-10YU-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-MAP	.88	.66	.50
AT24C02-10PI-1.8-ND	2K (256x8) Serial EEPROM, Full Data Array Write Protect, 1.8V to 5.5V	8-Dip	.82	.41	.35
AT24C02-10TI-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.85	.43	.37
AT24C02-10TI-2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.82	.41	.35
AT24C02A-10PI-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	1.04	1.01	.92
AT24C02A-10PI-2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.92	.91	.82
AT24C02A-10TI-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.40	.31	.28
AT24C02A-10TI-2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	1.00	.98	.89
AT24C02AN-10SI1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	1.04	1.01	.92
AT24C02AN-10SI2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.66	.50	.38
AT24C02B-10PU-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.66	.50	.38
AT24C02B-10TU-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	.90	.68	.51
AT24C02BN-10SU-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.66	.50	.38
AT24C02N-10SI-1.8-ND	2K (256x8) Serial EEPROM, Full Data Array Write Protect, 1.8V to 5.5V	8-SOIC	.82	.41	.35
AT24C02Y1-10YI2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V	8-MAP	.47	.36	.32
AT24HC02B-10PU-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.66	.50	.38
AT24HC02B-10TU-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	.70	.53	.40
AT24HC02BN-10SU-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.66	.50	.38
AT24C04-10PU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.80	.60	.45
AT24C04-10PU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.76	.57	.43
AT24C04-10TU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.00	.75	.57
AT24C04A-10PI-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	1.17	1.13	1.04
AT24C04A-10PU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.80	.60	.45
AT24C04A-10PI-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.03	1.01	.91
AT24C04A-10PU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.76	.57	.43
AT24C04A-10TI-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	1.25	1.22	1.11
AT24C04A-10TU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.04	.78	.59
AT24C04A-10TI-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	1.12	1.09	.99
AT24C04A-10TU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.00	.75	.57
AT24C04AN-10SI1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	1.17	1.13	1.04
AT24C04AN-10SU1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.80	.60	.45
AT24C04AN-10SI2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	1.03	1.01	.91
AT24C04AN-10SU2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.76	.57	.43
AT24C04N-10SI-1.8-ND	4K (512x8) Serial EEPROM, Full Data Array Write Protect, 1.8V to 5.5V	8-SOIC	.90	.45	.38
AT24C04N-10SU-1.8-ND	4K (512x8) Serial EEPROM, Full Data Array Write Protect, 1.8V to 5.5V* ***NEW!***	8-SOIC	.80	.60	.45
AT24C04N-10SI-2.7-ND	4K (512x8) Serial EEPROM, Full Data Array Write Protect, 2.7V to 5.5V	8-SOIC	.86	.44	.38
AT24C04N-10SU-2.7-ND	4K (512x8) Serial EEPROM, Full Data Array Write Protect, 2.7V to 5.5V* ***NEW!***	8-SOIC	.76	.57	.43
AT24C04Y1-10YI1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-MAP	.58	.45	.41
AT24C04Y1-10YI2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-MAP	.52	.40	.36
AT24C08-10PC-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.32	.74	.63
AT24C08A-10PI-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.41	.39	.37
AT24C08A-10PU-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.86	.65	.49
AT24C08A-10PI-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.36	.35	.33
AT24C08A-10PU-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.82	.62	.47
AT24C08A-10TI-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.45	.44	.40
AT24C08A-10TU-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.10	.83	.62
AT24C08A-10TU-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.06	.80	.60
AT24C08AN-10SI1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.41	.39	.37
AT24C08AN-10SU1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.86	.65	.49
AT24C08AN-10SU2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.82	.62	.47
AT24C08AY110YI2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-MAP	.58	.45	.41
AT24C16A-10PI-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.49	.38	.35
AT24C16A-10PU-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.92	.69	.52
AT24C16A-10PI-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.47	.37	.34
AT24C16A-10PU-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.88	.66	.50
AT24C16A-10TI-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.52	.40	.36
AT24C16A-10TU-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.16	.87	.66
AT24C16A-10TI-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.49	.37	.34
AT24C16A-10TU-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.12	.84	.63
AT24C16AN-10SU1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.92	.69	.52
AT24C16AN-10SU2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.88	.66	.50
AT24C16AY110YI1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-MAP	.71	.54	.50
AT24C16AY110YI2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-MAP	.65	.49	.45
AT24C164-10PI-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	2.03	1.98	1.80
AT24C164-10PU-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	1.02	.85	.68
AT24C164-10PI-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.80	1.75	1.59
AT24C164-10PU-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.99	.83	.66
AT24C164-10SI-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	2.03	1.98	1.80
AT24C164-10SU-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	1.02	.85	.68
AT24C164-10SU-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.99	.83	.66
AT24C32A-10PI-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.92	.71	.64
AT24C32A-10PU-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.81	.68	.54
AT24C32A-10TI-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.62	.48	.44
AT24C32A-10TU-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.02	.85	.68
AT24C32A-10TI-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.60	.47	.42
AT24C32A-10TU-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	.99	.83	.66
AT24C32AN-10SI1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.57	.56	.50
AT24C32AN-10SU1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.84	.70	.56
AT24C32AN-10SI2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.50	.49	.44
AT24C32AN-10SU2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.81	.68	.54
AT24C32N-10SI-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	4.62	3.54	3.22
AT24C32W-10SI-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	5.50	4.34	3.91
AT24C32W-10SC-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC▲	2.68	1.64	1.44
AT24C32W-10SI-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC▲	2.04	1.77	1.56
AT24C32W-10SI-ND	32K (4Kx8) Serial EEPROM, 5V	8-SOIC▲	2.78	1.70	1.50
AT24C32AW-10SI2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	1.08	.60	.50
AT24C32AW-10SU2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.81	.68	.54
AT24C32AY110YI1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V	8-MAP	1.08	.82	.74
AT24C32AY110YI2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-MAP	.97	.74	.67
AT24C64A-10PI-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.69	.53	.48
AT24C64A-10PU-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.96	.80	.64
AT24C64A-10PU-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.93	.78	.62
AT24C64A-10TI-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.71	.55	.50
AT24C64A-10TU-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.14	.95	.76
AT24C64A-10TI-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.64	.63	.57
AT24C64A-10TU-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.11	.93	.74
AT24C64AN-10SI1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.64	.63	.57
AT24C64AN-10SU1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.96	.80	.64
AT24C64AN-10SI2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.56	.55	.50
AT24C64AN-10SU2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.93	.78	.62
AT24C64AW-10SI1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.69	.53	.48
AT24C64AW-10SU1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.96	.80	.64
AT24C64AW-10SI2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC▲	.67	.52	.47
AT24C64AW10SU-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC▲	.93	.78	.62
AT24C128-10PI-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	2.43	2.36	2.15
AT24C128-10PU-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	1.32	1.10	.88
AT24C128-10PI-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	2.13	2.07	1.88
AT24C128-10PU-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	1.29	1.08	.86
AT24C128-10TI-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.97	.75	.68
AT24C128-10TU-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.50	1.25	1.00
AT24C128-10TI-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	2.43	2.36	2.15
AT24C128-10TU-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.47	1.23	.98
AT24C128N-10SI1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	2.43	2.36	2.15
AT24C128N-10SU1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	1.32	1.10	.88
AT24C128N-10SU2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.29	1.08	.86
AT24C128W-10SC-ND	128K (16Kx8) Serial EEPROM, 5V	8-SOIC▲	2.95	1.82	1.61
AT24C128W10SU1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	1.32	1.10	.88
AT24C128W-10SU2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.29	1.08	.86
AT24C128Y110YI1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V	8-MAP	1.61	1.24	1.13
AT24C256-10PI-1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	1.57	1.00	.92
AT24C256-10PI-2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	3.54	3.45	3.14
AT24C256-10TI-1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	8.58	6.58	5.99
AT24C256-10TI-2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	7.98	6.11	5.56
AT24C256B-10PU-1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 3.6V* ***NEW!***	8-Dip	1.43	1.14	.86
AT24C256B-10TU-1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 3.6V* ***NEW!***	8-TSSOP	1.58	1.26	.95
AT24C256BN-10SU-1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 3.6V* ***NEW!***	8-SOIC	1.43	1.14	.86
AT24C512-10PU-1.8-ND	512K (64Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	2.38	1.90	1.43
AT24C512-10PI-2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	2.55	2.48	2.26
AT24C512-10PU-2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	2.35	1.88	1.41
AT24C512-10TU-1.8-ND	512K (64Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	2.53	2.02	1.52
AT24C512-10TU-2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	2.50	2.00	1.50
AT24C512C110CI1.8-ND	512K (64Kx8) Serial EEPROM, 1.8V to 5.5V	8-LAP	8.06	6.19	5.63
AT24C512N-10SI1.8-ND	512K (64Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	2.90	2.82	2.57
AT24C512N-10SU1.8-ND	512K (64Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	2.38	1.90	1.43
AT24C512N-10SI2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	2.55	2.48	2.26
AT24C512N-10SU2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	2.35	1.88	1.41
AT24C512W-10SU2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	2.35	1.88	1.41
AT24C512W110SI1.8-ND	512K (64Kx8) Serial EEPROM, 1.8V to 5.5V	20-SOIC	6.99	5.36	4.88
AT24C512W-10SU-1.8-ND	512K (64Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	1.90	1.52	1.29
AT24C512W110SI2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V	20-SOIC	6.19	4.74	4.31
AT24C102410CI2.7-ND	1M (128Kx8) Serial EEPROM, 2.7V to 5.5V	8-LAP	8.73	6.70	6.09
AT24C1024-10PI2.7-ND	1M (128Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	8.04	6.17	5.61
AT24C1024W10SI2.7-ND	1M (128Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	4.08	3.96	3.60
AT24C1024W10SU2.7-ND	1M (128Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	3.74	2.99	2.33

SPI Serial Interface EEPROMs

Digi-Key Part No.	Description	Pkg.	1	25	100
AT25010A-10PI-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.41	.39	.35
AT25010A-10PU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.88	.66	.50
AT25010A-10PU-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.84	.63	.48
AT25010A-10TI-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.46	.43	.39
AT25010A-10TU-1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.12	.84	.63
AT25010A-10TI-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.41	.39	.35
AT25010A-10TU-2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.08	.81	.61
AT25010AN-10SI1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.41	.39	.35
AT25010AN-10SU1.8-ND	1K (128x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.88	.66	.50
AT25010AN-10SI2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.36	.35	.31
AT25010AN-10SU2.7-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.84	.63	.48
AT25020A-10PI-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.45	.43	.39
AT25020A-10PU-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.88	.66	.50
AT25020A-10PI-2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.40	.38	.34
AT25020A-10PU-2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.84	.63	.48
AT25020A-10TI-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.51	.48	.43
AT25020A-10TU-1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.12	.84	.63
AT25020A-10TI-2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.45	.43	.39
AT25020A-10TU-2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.08	.81	.61
AT25020AN-10SI1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.45	.43	.39
AT25020AN-10SU1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.88	.66	.50
AT25020AN-10SU2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.84	.63	.48
AT25020AY110YI1.8-ND	2K (256x8) Serial EEPROM, 1.8V to 5.5V	8-MAP	.62	.45	.41
AT25020AY110YI2.7-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V	8-MAP	.60	.43	.40
AT25040A-10PU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.92	.69	.52
AT25040A-10PI-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.39	.37	.33
AT25040A-10PU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.88	.66	.50
AT25040A-10TI-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.48	.45	.41
AT25040A-10TU-1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.16	.87	.66
AT25040A-10TI-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.43	.40	.37
AT25040A-10TU-2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.12	.84	.63
AT25040AN-10SI1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.44	.42	.38
AT25040AN-10SU1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.92	.69	.52
AT25040AN-10SI2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.39	.37	.33
AT25040AN-10SU2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.88	.66	.50
AT25040AY110YI1.8-ND	4K (512x8) Serial EEPROM, 1.8V to 5.5V	8-MAP	.84	.60	.55
AT25040AY110YI2.7-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-MAP	.75	.54	.49
AT25080-10PI-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	2.64	2.23	1.98
AT25080A-10PI-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.58	.55	.50
AT25080A-10PU-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.84	.70	.56
AT25080A-10PI-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.51	.48	.44
AT25080A-10PU-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.81	.68	.54
AT25080A-10TU-1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.02	.85	.68
AT25080A-10TI-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.56	.53	.48

▲ .200” Body Width   ****RoHS Compliant***   *(Continued)*

SERIAL EEPROMs *(Continued)*

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AT25080A-10TU-2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	.99	.83	.66
AT25080AN-10SI1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.58	.55	.50
AT25080AN-10SU1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.84	.70	.56
AT25080AN-10SI2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.51	.48	.44
AT25080AN-10SU2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.81	.68	.54
AT25080AY110YI1.8-ND	8K (1Kx8) Serial EEPROM, 1.8V to 5.5V	8-MAP	.97	.70	.63
AT25080AY110YI2.7-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-MAP	.88	.63	.57
AT25160-10PI-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	3.29	2.72	2.43
AT25160A-10PI-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.61	.58	.52
AT25160A-10PU-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.93	.78	.62
AT25160A-10PI-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.54	.51	.46
AT25160A-10PU-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.90	.75	.60
AT25160A-10TI-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.69	.50	.45
AT25160A-10TU-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.11	.93	.74
AT25160A-10TI-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.67	.48	.44
AT25160A-10TU-2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.08	.90	.72
AT25160AN-10SI1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.61	.58	.52
AT25160AN-10SU1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.93	.78	.62
AT25160AN-10SI2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.54	.51	.46
AT25160AN-10SU2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.90	.75	.60
AT25160N-10SI-1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	3.29	2.72	2.43
AT25160AY110YI1.8-ND	16K (2Kx8) Serial EEPROM, 1.8V to 5.5V	8-MAP	1.10	.79	.71
AT25160AY110YI2.7-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-MAP	.99	.71	.64
AT25320-10PC-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	3.21	2.00	1.77
AT25320A-10PI-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.71	.68	.61
AT25320A-10PU-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	1.17	.98	.78
AT25320A-10PI-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.63	.59	.53
AT25320A-10PU-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	1.14	.95	.76
AT25320A-10TU-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.35	1.13	.90
AT25320A-10TI-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.67	.64	.57
AT25320A-10TU-2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.32	1.10	.88
AT25320AN-10SI1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.71	.68	.61
AT25320AN10SU-1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	1.17	.98	.78
AT25320AN-10SU2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.14	.95	.76
AT25320AY110YI1.8-ND	32K (4Kx8) Serial EEPROM, 1.8V to 5.5V	8-MAP	1.29	.93	.84
AT25320AY110YI2.7-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-MAP	1.16	.84	.76
AT25640-10PI-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	8.71	6.61	6.01
AT25640A-10PI-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	.75	.72	.64
AT25640A-10PU-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	1.32	1.10	.88
AT25640A-10PU-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	1.29	1.08	.86
AT25640A-10TI-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.82	.77	.70
AT25640A-10TU-1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.50	1.25	1.00
AT25640A-10TI-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.95	.68	.62
AT25640A-10TU-2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.47	1.23	.98
AT25640AN-10SI1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.74	.70	.63
AT25640AN-10SU1.8-ND	64K (8Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	1.32	1.10	.88
AT25640AN-10SU2.7-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.29	1.08	.86
AT25128-10PI-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	12.75	9.41	8.60
AT25128A-10PI-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	1.00	.95	.86
AT25128A-10PU-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	1.43	1.14	.86
AT25128A-10PI-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.88	.84	.76
AT25128A-10PU-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	1.40	1.12	.84
AT25128A-10TU-1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.58	1.26	.95
AT25128A-10TU-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.55	1.24	.93
AT25128AN-10SI1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	1.00	.95	.86
AT25128AN-10SU1.8-ND	128K (16Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	1.43	1.14	.86
AT25128AN10SU-2.7-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.40	1.12	.84
AT25256A-10PI-1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	1.36	1.28	1.16
AT25256A-10PU-1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	1.93	1.54	1.16
AT25256A-10PI-2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.20	1.13	1.03
AT25256A-10PU-2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	1.90	1.52	1.14
AT25256A-10TU-1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	2.08	1.66	1.25
AT25256A-10TU-2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	2.05	1.64	1.23
AT25256AN-10SU1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	1.93	1.54	1.16
AT25256AN-10SI2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	1.20	1.13	1.03
AT25256AN-10SU2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.90	1.52	1.14
AT25256AW-10SI1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V	8-SOIC	1.59	1.45	1.35
AT25256AW-10SI2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	1.25	1.14	1.07
AT25256AW-10SU2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.90	1.52	1.14
AT25HP256-10PI1.8-ND	256K (32Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	7.33	4.65	4.34
AT25HP256W10SI2.7-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	5.16	3.60	3.36
AT25F512AN10SU2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.40	1.12	.84
AT25HP512C10CI1.8-ND	512K (64Kx8) Serial EEPROM, 1.8V to 5.5V	8-LAP	11.01	6.98	6.51
AT25HP512C10CI2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V	8-LAP	9.22	5.85	5.46
AT25HP512-10PI1.8-ND	512K (64Kx8) Serial EEPROM, 1.8V to 5.5V	8-Dip	8.39	6.05	5.46
AT25HP512-10PI2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	7.42	5.35	4.83
AT25HP512W10SI2.7-ND	512K (64Kx8) Serial EEPROM, 2.7V to 5.5V	16-SOIC	3.89	2.47	2.31
AT25F1024AN10SU27-ND	1M (128Kx8) SPI Serial Flash Memory, 2.7V to 3.6V* ***NEW!***	8-SOIC	1.60	1.28	.96
AT25P1024C10CI2.7-ND	1M (128Kx8) Serial EEPROM, 2.7V to 5.5V	8-LAP	15.67	9.95	9.28
AT25F2048N10SU2.7-ND	2M (262Kx8) SPI Serial Flash Memory, 2.7V to 3.6V* ***NEW!***	8-SOIC	1.90	1.52	1.14
AT25F4096W-10SU-2.7-ND	4M (524Kx8) SPI Serial Flash Memory* ***NEW!***	8-SOIC	2.36	1.89	1.47

3-Wire Serial Interface EEPROMs

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AT93C46A-10PI-1.8-ND	1K (64x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.78	.40	.34
AT93C46A-10PU-1.8-ND	1K (64x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.68	.51	.39
AT93C46A-10PI-2.7-ND	1K (64x16) Serial EEPROM, 2.7V to 5.5V	8-Dip	.73	.71	.64
AT93C46A-10PU-2.7-ND	1K (64x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.64	.48	.36
AT93C46A-10TI-1.8-ND	1K (64x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	1.05	.81	.74
AT93C46A-10TI-2.7-ND	1K (64x16) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.74	.72	.66
AT93C46A-10TU-2.7-ND	1K (64x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	.88	.66	.50
AT93C46A-10SI-2.7-ND	1K (64x16) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.76	.39	.32
AT93C46A-10SU-2.7-ND	1K (64x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.64	.48	.36
AT93C46-10PI-1.8-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.80	.40	.34
AT93C46-10PU-1.8-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.68	.51	.39
AT93C46-10PI-2.7-ND	1K (128x8 or 64x16) Serial EEPROM, 2.7V to 5.5V	8-Dip	.76	.39	.32
AT93C46-10PU-2.7-ND	1K (128x8 or 64x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.64	.48	.36
AT93C46-10TI-1.8-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.83	.42	.36
AT93C46-10TU-1.8-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	.92	.69	.52
AT93C46-10TI-2.7-ND	1K (128x8 or 64x16) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.80	.40	.34
AT93C46-10TU-2.7-ND	1K (128x8 or 64x16) Serial EEPROM, 2.7V to 5 .5V* ***NEW!***	8-TSSOP	.88	.66	.50
AT93C46-10SI-1.8-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.80	.40	.34
AT93C46-10SU-1.8-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.68	.51	.39
AT93C46-10SU-2.7-ND	1K (128x8 or 64x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.64	.48	.36
AT93C46Y1-10YI1.8-ND	1K (128x8 or 64x16) Serial EEPROM, 1.8V to 5.5V	8-MAP	.54	.41	.37
AT93C56-10SI-1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.88	.45	.39
AT93C56A-10PI-1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.42	.32	.30
AT93C56A-10PU-1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.78	.59	.44
AT93C56A-10PI-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V	8-Dip	.40	.30	.27
AT93C56A-10PU-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.74	.56	.42
AT93C56A-10TI-1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.44	.34	.31
AT93C56A-10TU-1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.02	.77	.58
AT93C56A-10TI-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.42	.33	.30
AT93C56A-10TU-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	.98	.74	.56
AT93C56A-10SI-1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.42	.32	.30
AT93C56A-10SU-1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.78	.59	.44
AT93C56A-10SI-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.40	.31	.27
AT93C56A-10SU-2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.74	.56	.42
AT93C56AW-10SI1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.49	.38	.34
AT93C56AW-10SI2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.41	.31	.28
AT93C56AY110YI1.8-ND	2K (256x8 or 128x16) Serial EEPROM, 1.8V to 5.5V	8-MAP	.60	.46	.42
AT93C56AY110YI2.7-ND	2K (256x8 or 128x16) Serial EEPROM, 2.7V to 5.5V	8-MAP	.56	.43	.39
AT93C66A-10PI-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.40	.38	.36
AT93C66A-10PU-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.84	.63	.48
AT93C66A-10PI-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V to 5.5V	8-Dip	.35	.34	.32
AT93C66A-10PU-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.80	.60	.45
AT93C66A-10TI-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.47	.37	.33
AT93C66A-10TU-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	1.08	.81	.61
AT93C66A-10TU-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	1.04	.78	.59
AT93C66A-10SI-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.40	.38	.36
AT93C66A-10SU-1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.84	.63	.48
AT93C66A-10SU-2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.80	.60	.45
AT93C66AW-10SI1.8-ND	4K (512x8 or 256x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.58	.45	.41
AT93C66AW-10SI2.7-ND	4K (512x8 or 256x16) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.47	.36	.33
AT93C86A-10PI-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V	8-Dip	.54	.41	.38
AT93C86A-10PU-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-Dip	.75	.63	.50
AT93C86A-10PI-2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V	8-Dip	.52	.39	.36
AT93C86A-10PU-2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.96	.72	.54
AT93C86A-10TI-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V	8-TSSOP	.56	.44	.40
AT93C86A-10TU-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-TSSOP	.93	.78	.62
AT93C86A-10TI-2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V	8-TSSOP	.47	.45	.42
AT93C86A-10TU-2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-TSSOP	.90	.75	.60
AT93C86A-10SI-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V	8-SOIC	.54	.41	.38
AT93C86A-10SU-1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V* ***NEW!***	8-SOIC	.75	.63	.50
AT93C86A-10SI-2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.45	.44	.40
AT93C86A-10SU-2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.96	.72	.54
AT93C86AY110YI1.8-ND	16K (2048x8 or 1024x16) Serial EEPROM, 1.8V to 5.5V	8-MAP	.88	.68	.62
AT93C86AY110YI2.7-ND	16K (2048x8 or 1024x16) Serial EEPROM, 2.7V to 5.5V	8-MAP	.82	.62	.56

** RoHS Compliant*

SECURE MEMORY

Cryptomemory

Digi-Key			Price Each★		
Part No.	Description	Pkg.	1	25	100
AT88SC0104C-PI-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.45	.34	.31
AT88SC0104C-PU-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.84	.63	.48
AT88SC0104C-SU-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.84	.63	.48
AT88SC0104C-Y4I-ND	1K (128x8) Serial EEPROM, 2.7V to 5.5V	8-SAP	.71	.55	.50
AT88SC0204C-PI-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.49	.38	.35
AT88SC0204C-PU-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.92	.69	.52
AT88SC0204C-SI-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.49	.38	.35
AT88SC0204C-SU-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.92	.69	.52
AT88SC0204C-Y4I-ND	2K (256x8) Serial EEPROM, 2.7V to 5.5V	8-SAP	.77	.59	.54
AT88SC0404C-PI-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.60	.47	.42
AT88SC0404C-PU-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.84	.70	.56
AT88SC0404C-SI-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.60	.47	.42
AT88SC0404C-SU-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.84	.70	.56
AT88SC0404C-Y4I-ND	4K (512x8) Serial EEPROM, 2.7V to 5.5V	8-SAP	.88	.68	.61
AT88SC0808C-PI-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.69	.53	.48
AT88SC0808C-PU-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	.96	.80	.64
AT88SC0808C-SU-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	.96	.80	.64
AT88SC0808C-Y4I-ND	8K (1Kx8) Serial EEPROM, 2.7V to 5.5V	8-SAP	.97	.74	.67
AT88SC1616C-PI-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.80	.62	.56
AT88SC1616C-PIA-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.27	.97	.89
AT88SC1616C-PU-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	1.11	.93	.74
AT88SC1616C-SI-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.80	.62	.56
AT88SC1616C-SU-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.11	.93	.74
AT88SC1616C-Y4I-ND	16K (2Kx8) Serial EEPROM, 2.7V to 5.5V	8-SAP	1.08	.83	.75
AT88SC3216C-PI-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	.97	.74	.67
AT88SC3216C-PU-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	1.35	1.13	.90
AT88SC3216C-SI-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	.97	.74	.67
AT88SC3216C-SU-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.35	1.13	.90
AT88SC3216C-Y4I-ND	32K (4Kx8) Serial EEPROM, 2.7V to 5.5V	8-SAP	1.25	.95	.86

** RoHS Compliant*

(Continued)

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

ATMEL SECURE MEMORY *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT88SC6416C-PI-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.16	.89	.81
AT88SC6416C-PU-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	1.35	1.08	.81
AT88SC6416C-SI-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	1.16	.89	.81
AT88SC6416C-SU-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.35	1.08	.81
AT88SC6416C-Y4I-ND	64K (8Kx8) Serial EEPROM, 2.7V to 5.5V	8-SAP	1.44	1.10	1.00
AT88SC12816C-PI-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.38	1.06	.96
AT88SC12816C-PU-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	1.60	1.28	.96
AT88SC12816C-SI-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	1.38	1.06	.96
AT88SC12816C-SU-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	1.60	1.28	.96
AT88SC12816C-Y4I-ND	128K (16Kx8) Serial EEPROM, 2.7V to 5.5V	8-SAP	1.66	1.27	1.15
AT88SC25616C-PI-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V	8-Dip	1.83	1.40	1.27
AT88SC25616C-PU-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-Dip	2.13	1.70	1.28
AT88SC25616C-SI-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V	8-SOIC	1.83	1.40	1.27
AT88SC25616C-SU-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V* ***NEW!***	8-SOIC	2.13	1.70	1.28
AT88SC25616C-Y4I-ND	256K (32Kx8) Serial EEPROM, 2.7V to 5.5V	8-SAP	2.09	1.61	1.46
AT88SC25616C-DK-ND	Cryptomemory Smartcard Development Kit	—	295.00	—	—
AT88SC25616C-EK-ND	Cryptomemory Evaluation Kit	—	98.75	—	—

ATMEL EPROMS

Low Power Battery Voltage EPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT27BV256-70JI-ND	256K (32Kx8) CMOS EPROM 2.7V 70nS OTP	32-PLCC	3.98	3.05	2.65
AT27BV256-70JU-ND	256K (32Kx8) CMOS EPROM 2.7V 70nS OTP* ***NEW!***	32-PLCC	4.05	3.24	2.52
AT27BV256-70RI-ND	256K (32Kx8) CMOS EPROM 2.7V 70nS OTP	28-SOIC	4.62	3.55	3.05
AT27BV256-70RU-ND	256K (32Kx8) CMOS EPROM 2.7V 70nS OTP* ***NEW!***	28-SOIC	4.84	3.87	3.01
AT27BV256-70TI-ND	256K (32Kx8) CMOS EPROM 2.7V 70nS OTP	28-TSOP	4.62	3.55	3.05
AT27BV256-70TU-ND	256K (32Kx8) CMOS EPROM 2.7V 70nS OTP* ***NEW!***	28-TSOP	5.40	4.32	3.36
AT27BV256-90JC-ND	256K (32Kx8) CMOS EPROM 2.7V 90nS OTP	32-PLCC	3.12	2.40	2.05
AT27BV512-70JU-ND	512K (64Kx8) CMOS EPROM 2.7V 70nS OTP* ***NEW!***	32-PLCC	5.06	4.05	3.15
AT27BV512-12JC-ND	512K (64Kx8) CMOS EPROM 2.7V 120nS OTP	32-PLCC	3.12	2.40	2.05
AT27BV512-70RI-ND	512K (64Kx8) CMOS EPROM 2.7V 70nS OTP	28-SOIC	4.84	3.80	3.25
AT27BV512-70RU-ND	512K (64Kx8) CMOS EPROM 2.7V 70nS OTP* ***NEW!***	28-SOIC	5.18	4.14	3.22
AT27BV512-70TI-ND	512K (64Kx8) CMOS EPROM 2.7V 70nS OTP	28-TSOP	5.27	4.10	3.50
AT27BV512-70TU-ND	512K (64Kx8) CMOS EPROM 2.7V 70nS OTP* ***NEW!***	28-TSOP	5.10	4.08	3.45
AT27BV010-90JI-ND	1M (128Kx8) CMOS EPROM 2.7V 90nS OTP	32-PLCC	4.73	3.70	3.15
AT27BV010-90JU-ND	1M (128Kx8) CMOS EPROM 2.7V 90nS OTP* ***NEW!***	32-PLCC	5.00	4.00	3.38
AT27BV010-12JC-ND	1M (128Kx8) CMOS EPROM 2.7V 120nS OTP	32-PLCC	4.09	3.15	2.70
AT27BV010-90TI-ND	1M (128Kx8) CMOS EPROM 2.7V 90nS OTP	32-TSOP	5.38	4.20	3.60
AT27BV010-90TU-ND	1M (128Kx8) CMOS EPROM 2.7V 90nS OTP* ***NEW!***	32-TSOP	5.60	4.48	3.78
AT27BV010-90VI-ND	1M (128Kx8) CMOS EPROM 2.7V 90nS OTP	32-VSOP	5.38	4.20	3.60
AT27BV1024-90JI-ND	1M (64Kx16) CMOS EPROM 2.7V 90nS OTP	44-PLCC	5.59	4.34	3.72
AT27BV1024-12JI-ND	1M (64Kx16) CMOS EPROM 2.7V 120nS OTP	44-PLCC	5.05	3.92	3.36
AT27BV1024-90VI-ND	1M (64Kx16) CMOS EPROM 2.7V 90nS OTP	40-VSOP	6.67	5.18	4.43
AT27BV1024-12VI-ND	1M (64Kx16) CMOS EPROM 2.7V 120nS OTP	40-VSOP	6.13	4.76	4.08
AT27BV020-90JI-ND	2M (256Kx8) CMOS EPROM 2.7V 90nS OTP	32-PLCC	6.56	5.09	4.36
AT27BV020-90JU-ND	2M (256Kx8) CMOS EPROM 2.7V 90nS OTP* ***NEW!***	32-PLCC	6.98	5.59	4.72
AT27BV020-90TI-ND	2M (256Kx8) CMOS EPROM 2.7V 90nS OTP	32-TSOP	7.20	5.59	4.79
AT27BV020-90TU-ND	2M (256Kx8) CMOS EPROM 2.7V 90nS OTP* ***NEW!***	32-TSOP	7.58	6.07	5.12
AT27BV020-90VI-ND	2M (256Kx8) CMOS EPROM 2.7V 90nS OTP	32-VSOP	7.20	5.59	4.79
AT27BV040-12JI-ND	4M (512Kx8) CMOS EPROM 2.7V 120nS OTP	32-PLCC	8.60	6.68	5.72
AT27BV040-12TI-ND	4M (512Kx8) CMOS EPROM 2.7V 120nS OTP	32-TSOP	9.25	7.18	6.15
AT27BV040-12VI-ND	4M (512Kx8) CMOS EPROM 2.7V 120nS OTP	32-VSOP	9.25	7.18	6.15
AT27BV4096-12JI-ND	4M (256Kx16) CMOS EPROM 2.7V 120nS OTP	44-PLCC	9.68	7.52	6.44
AT27BV4096-12JU-ND	4M (256Kx16) CMOS EPROM 2.7V 120nS OTP* ***NEW!***	44-PLCC	8.58	7.73	6.85
AT27BV4096-12VI-ND	4M (256Kx16) CMOS EPROM 2.7V 120nS OTP	40-VSOP	10.75	8.35	7.15

Low Power Low Voltage EPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT27LV256A-55JC-ND	256K (32Kx8) CMOS EPROM 3.0V 55nS OTP	32-PLCC	3.66	2.80	2.40
AT27LV256A-70JC-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	32-PLCC	3.33	2.60	2.20
AT27LV256A-90JI-ND	256K (32Kx8) CMOS EPROM 3.0V 90nS OTP	32-PLCC	3.12	2.40	2.05
AT27LV256A-55RI-ND	256K (32Kx8) CMOS EPROM 3.0V 55nS OTP	28-SOIC	4.09	3.15	2.70
AT27LV256A-70RC-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	28-SOIC	3.55	2.75	2.35
AT27LV256A-70RI-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	28-SOIC	3.76	2.95	2.50
AT27LV256A-90RI-ND	256K (32Kx8) CMOS EPROM 3.0V 90nS OTP	28-SOIC	3.33	2.60	2.20
AT27LV256A-55TI-ND	256K (32Kx8) CMOS EPROM 3.0V 55nS OTP	28-TSOP	4.41	3.40	2.90
AT27LV256A-70TI-ND	256K (32Kx8) CMOS EPROM 3.0V 70nS OTP	28-TSOP	4.09	3.20	2.70
AT27LV256A-90TI-ND	256K (32Kx8) CMOS EPROM 3.0V 90nS OTP	28-TSOP	3.66	2.85	2.45
AT27LV512A-90JU-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP* ***NEW!***	32-PLCC	4.05	3.24	2.52
AT27LV512A-90RU-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP* ***NEW!***	28-SOIC	4.16	3.33	2.59
AT27LV512A-90TI-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP	28-TSOP	3.87	3.00	2.55
AT27LV512A-90TU-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP* ***NEW!***	28-TSOP	4.73	3.78	2.94
AT27LV520-70XU-ND	512K (64Kx8) CMOS EPROM 3.0V 70nS OTP* ***NEW!***	20-TSSOP	5.18	4.15	3.50
AT27LV520-90XU-ND	512K (64Kx8) CMOS EPROM 3.0V 90nS OTP* ***NEW!***	20-TSSOP	4.79	3.84	2.99
AT27LV010A-70JI-ND	1M (128Kx8) CMOS EPROM 3.0V 70nS OTP	32-PLCC	5.16	3.95	3.40
AT27LV010A-70JU-ND	1M (128Kx8) CMOS EPROM 3.0V 70nS OTP* ***NEW!***	32-PLCC	5.40	4.32	3.65
AT27LV010A-70TI-ND	1M (128Kx8) CMOS EPROM 3.0V 70nS OTP	32-TSOP	5.81	4.45	3.85
AT27LV010A-70TU-ND	1M (128Kx8) CMOS EPROM 3.0V 70nS OTP* ***NEW!***	32-TSOP	6.00	4.80	4.05
AT27LV010A-90JI-ND	1M (128Kx8) CMOS EPROM 3.0V 90nS OTP	32-PLCC	4.73	3.70	3.15
AT27LV010A-90TI-ND	1M (128Kx8) CMOS EPROM 3.0V 90nS OTP	32-TSOP	5.38	4.20	3.60
AT27LV010A-90VI-ND	1M (128Kx8) CMOS EPROM 3.0V 90nS OTP	32-VSOP	5.38	4.20	3.60
AT27LV020A-90TI-ND	2M (256Kx8) CMOS EPROM 3.0V 90nS OTP	32-TSOP	6.77	5.26	4.50
AT27LV020A-90VI-ND	2M (256Kx8) CMOS EPROM 3.0V 90nS OTP	32-VSOP	6.77	5.26	4.50
AT27LV020A-12JI-ND	2M (256Kx8) CMOS EPROM 3.0V 120nS OTP	32-PLCC	5.59	4.34	3.72
AT27LV020A-12JU-ND	2M (256Kx8) CMOS EPROM 3.0V 120nS OTP* ***NEW!***	32-PLCC	5.94	4.76	4.01
AT27LV020A-12TI-ND	2M (256Kx8) CMOS EPROM 3.0V 120nS OTP	32-TSOP	6.24	4.84	4.15
AT27LV020A-12TU-ND	2M (256Kx8) CMOS EPROM 3.0V 120nS OTP* ***NEW!***	32-TSOP	6.54	5.24	4.42
AT27LV020A-12VI-ND	2M (256Kx8) CMOS EPROM 3.0V 120nS OTP	32-VSOP	6.24	4.84	4.15
AT27LV040A-90JU-ND	4M (512Kx8) CMOS EPROM 3.0V 90nS OTP* ***NEW!***	32-PLCC	8.92	7.14	6.03
AT27LV040A-90TU-ND	4M (512Kx8) CMOS EPROM 3.0V 90nS OTP* ***NEW!***	32-TSOP	9.52	7.62	6.43
AT27LV040A-90VI-ND	4M (512Kx8) CMOS EPROM 3.0V 90nS OTP	32-VSOP	9.03	7.01	6.01
AT27LV040A-12JI-ND	4M (512Kx8) CMOS EPROM 3.0V 120nS OTP	32-PLCC	7.96	6.18	5.29
AT27LV040A-12VI-ND	4M (512Kx8) CMOS EPROM 3.0V 120nS OTP	32-VSOP	8.60	6.68	5.72

5V EPROMS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT27C256R-45JI-ND	256K (32Kx8) CMOS EPROM 45nS OTP	32-PLCC	1.29	1.01	.86
AT27C256R-45JU-ND	256K (32Kx8) CMOS EPROM 45nS OTP* ***NEW!***	32-PLCC	3.92	3.14	2.44
AT27C256R-45PI-ND	256K (32Kx8) CMOS EPROM 45nS OTP	28-Dip	1.29	1.01	.86
AT27C256R-45RI-ND	256K (32Kx8) CMOS EPROM 45nS OTP	28-SOIC	3.40	2.64	2.26
AT27C256R-45RU-ND	256K (32Kx8) CMOS EPROM 45nS OTP* ***NEW!***	28-SOIC	4.03	3.23	2.51
AT27C256R-45TC-ND	256K (32Kx8) CMOS EPROM 45nS OTP	28-TSOP	1.29	1.01	.86
AT27C256R-45TI-ND	256K (32Kx8) CMOS EPROM 45nS OTP	28-TSOP	1.29	1.01	.86
AT27C256R-45TU-ND	256K (32Kx8) CMOS EPROM 45nS OTP* ***NEW!***	28-TSOP	4.59	3.68	2.86
AT27C256R-70JU-ND	256K (32Kx8) CMOS EPROM 70nS OTP* ***NEW!***	32-PLCC	3.26	2.61	2.03
AT27C256R-70PU-ND	256K (32Kx8) CMOS EPROM 70nS OTP* ***NEW!***	28-Dip	3.26	2.61	2.03
AT27C256R-70RU-ND	256K (32Kx8) CMOS EPROM 70nS OTP* ***NEW!***	28-SOIC	3.38	2.70	2.10
AT27C256R-70TI-ND	256K (32Kx8) CMOS EPROM 70nS OTP	28-TSOP	1.14	.89	.76
AT27C512R-45JC-ND	512K (64Kx8) CMOS EPROM 45nS OTP	32-PLCC	1.29	1.01	.86
AT27C512R-45JU-ND	512K (64Kx8) CMOS EPROM 45nS OTP* ***NEW!***	32-PLCC	4.16	3.33	2.59
AT27C512R-45PI-ND	512K (64Kx8) CMOS EPROM 45nS OTP	28-Dip	1.29	1.01	.86
AT27C512R-45RU-ND	512K (64Kx8) CMOS EPROM 45nS OTP* ***NEW!***	28-SOIC	4.28	3.42	2.66
AT27C512R-45TC-ND	512K (64Kx8) CMOS EPROM 45nS OTP	28-TSOP	1.29	1.01	.86
AT27C512R-45TI-ND	512K (64Kx8) CMOS EPROM 45nS OTP	28-TSOP	1.29	1.01	.86
AT27C512R-45TU-ND	512K (64Kx8) CMOS EPROM 45nS OTP* ***NEW!***	28-TSOP	4.84	3.87	3.01
AT27C512R-70JI-ND	512K (64Kx8) CMOS EPROM 70nS OTP	32-PLCC	1.29	1.01	.86
AT27C512R-70JU-ND	512K (64Kx8) CMOS EPROM 70nS OTP* ***NEW!***	32-PLCC	3.53	2.83	2.20
AT27C512R-70PU-ND	512K (64Kx8) CMOS EPROM 70nS OTP* ***NEW!***	28-Dip	3.53	2.83	2.20
AT27C512R-70RU-ND	512K (64Kx8) CMOS EPROM 70nS OTP* ***NEW!***	28-SOIC	3.65	2.92	2.27
AT27C512R-70TI-ND	512K (64Kx8) CMOS EPROM 70nS OTP	28-TSOP	1.29	1.01	.86
AT27C516-45JI-ND	512K (32Kx16) CMOS EPROM 45nS OTP	44-PLCC	1.51	1.17	1.01
AT27C516-70JI-ND	512K (32Kx16) CMOS EPROM 70nS OTP	44-PLCC	1.51	1.17	1.00
AT27C516-45VC-ND	512K (32Kx16) CMOS EPROM 45nS OTP	40-VSOP	5.16	4.01	3.43
AT27C516-45VI-ND	512K (32Kx16) CMOS EPROM 45nS OTP	40-VSOP	5.38	4.18	3.58
AT27C520-90SC-ND	512K (64Kx8) CMOS EPROM with Address Latch 90nS OTP	20-SOIC	2.80	1.72	1.52
AT27C010-45JU-ND	1M (128Kx8) CMOS EPROM 45nS OTP* ***NEW!***	32-PLCC	5.56	4.45	3.46
AT27C010L-45JI-ND	1M (128Kx8) CMOS EPROM 45nS OTP	32-PLCC	5.20	4.04	3.46
AT27C010-45PU-ND	1M (128Kx8) CMOS EPROM 45nS OTP* ***NEW!***	32-Dip	5.56	4.45	3.46
AT27C010-45TI-ND	1M (128Kx8) CMOS EPROM 45nS OTP	32-TSOP	5.31	4.12	3.53
AT27C010-45TU-ND	1M (128Kx8) CMOS EPROM 45nS OTP* ***NEW!***	32-TSOP	5.56	4.45	3.46
AT27C010-70JI-ND	1M (128Kx8) CMOS EPROM 70nS OTP	32-PLCC	1.51	1.17	1.00
AT27C010-70JU-ND	1M (128Kx8) CMOS EPROM 70nS OTP* ***NEW!***	32-PLCC	4.66	3.73	2.90
AT27C010-70PU-ND	1M (128Kx8) CMOS EPROM 70nS OTP* ***NEW!***	32-Dip	4.66	3.73	2.90
AT27C010-70TU-ND	1M (128Kx8) CMOS EPROM 70nS OTP* ***NEW!***	32-TSOP	5.33	4.27	3.32
AT27C1024-45JU-ND	1M (64Kx16) CMOS EPROM 45nS OTP* ***NEW!***	44-PLCC	5.54	4.44	3.74
AT27C1024-45PI-ND	1M (64Kx16) CMOS EPROM 45nS OTP	40-Dip	1.81	1.41	1.21
AT27C1024-45VC-ND	1M (64Kx16) CMOS EPROM 45nS OTP	40-VSOP	5.98	4.64	3.98
AT27C1024-45VI-ND	1M (64Kx16) CMOS EPROM 45nS OTP	40-VSOP	6.30	4.89	4.19
AT27C1024-70JI-ND	1M (64Kx16) CMOS EPROM 70nS OTP	44-PLCC	1.72	1.34	1.15
AT27C1024-70JU-ND	1M (64Kx16) CMOS EPROM 70nS OTP* ***NEW!***	44-PLCC	5.33	4.27	3.32
AT27C1024-70PU-ND	1M (64Kx16) CMOS EPROM 70nS OTP* ***NEW!***	40-Dip	5.33	4.27	3.32
AT27C1024-70VI-ND	1M (64Kx16) CMOS EPROM 70nS OTP	40-VSOP	5.55	4.31	3.69
AT27C020-55JU-ND	2M (256Kx8) CMOS EPROM 55nS OTP* ***NEW!***	32-PLCC	6.06	4.85	4.10
AT27C020-55PI-ND	2M (256Kx8) CMOS EPROM 55nS OTP	32-Dip	2.09	1.62	1.39
AT27C020-55PU-ND	2M (256Kx8) CMOS EPROM 55nS OTP* ***NEW!***	32-Dip	6.06	4.85	4.10
AT27C020-55TI-ND	2M (256Kx8) CMOS EPROM 55nS OTP	32-TSOP	2.09	1.62	1.39
AT27C020-90JI-ND	2M (256Kx8) CMOS EPROM 90nS OTP	32-PLCC	1.96	1.52	1.31
AT27C020-90JU-ND	2M (256Kx8) CMOS EPROM 90nS OTP* ***NEW!***	32-PLCC	5.24	4.20	3.54
AT27C020-90PU-ND	2M (256Kx8) CMOS EPROM 90nS OTP* ***NEW!***	32-Dip	5.24	4.20	3.54
AT27C020-90TI-ND	2M (256Kx8) CMOS EPROM 90nS OTP	32-TSOP	1.96	1.53	1.31
AT27C020-90TU-ND	2M (256Kx8) CMOS EPROM 90nS OTP* ***NEW!***	32-TSOP	5.84	4.68	3.95
AT27C2048-55JI-ND	2M (128Kx16) CMOS EPROM 55nS OTP	44-PLCC	3.48	2.71	2.32
AT27C2048-90JI-ND	2M (128Kx16) CMOS EPROM 90nS OTP	44-PLCC	3.16	2.46	2.11
AT27C2048-55PI-ND	2M (128Kx16) CMOS EPROM 55nS OTP	40-Dip	3.48	2.71	2.32
AT27C2048-90PI-ND	2M (128Kx16) CMOS EPROM 90nS OTP	40-Dip	3.16	2.46	2.11
AT27C2048-55VC-ND	2M (128Kx16) CMOS EPROM 55nS OTP	40-VSOP	7.20	5.59	4.79
AT27C2048-55VI-ND	2M (128Kx16) CMOS EPROM 55nS OTP	40-VSOP	7.53	5.85	5.01
AT27C2048-90VI-ND	2M (128Kx16) CMOS EPROM 90nS OTP	40-VSOP	6.77	5.26	4.50
AT27C040-70JU-ND	4M (512Kx8) CMOS EPROM 70nS OTP* ***NEW!***	32-PLCC	7.66	6.13	5.18
AT27C040-70PI-ND	4M (512Kx8) CMOS EPROM 70nS OTP	32-Dip	3.44	2.68	2.29
AT27C040-70PU-ND	4M (512Kx8) CMOS EPROM 70nS OTP* ***NEW!***	32-Dip	7.66	6.13	5.18
AT27C040-70TC-ND	4M (512Kx8) CMOS EPROM 70nS OTP	32-TSOP	3.44	2.68	2.30
AT27C040-70TU-ND	4M (512Kx8) CMOS EPROM 70nS OTP* ***NEW!***	32-TSOP	8.26	6.61	5.58
AT27C040-90JU-ND	4M (512Kx8) CMOS EPROM 90nS OTP* ***NEW!***	32-PLCC	7.08	5.67	4.78
AT27C040-90PU-ND	4M (512Kx8) CMOS EPROM 90nS OTP* ***NEW!***	32-Dip	7.08	5.67	4.78
AT27C040-90TU-ND	4M (512Kx8) CMOS EPROM 90nS OTP* ***NEW!***	32-TSOP	7.68	6.15	5.19
AT27C400-90JC-ND	4M (512Kx8) or (256x16) CMOS EPROM 90nS OTP	44-PLCC	7.67	5.26	4.77
AT27C4096-55JC-ND	4M (256Kx16) CMOS EPROM 55nS OTP	44-PLCC	3.55	2.76	2.36
AT27C4096-55JI-ND	4M (256Kx16) CMOS EPROM 55nS OTP	44-PLCC	3.55	2.76	2.37
AT27C4096-55PI-ND	4M (256Kx16) CMOS EPROM 55nS OTP	40-Dip	3.55	2.76	2.37
AT27C4096-55VC-ND	4M (256Kx16) CMOS EPROM 55nS OTP	40-VSOP	9.03	7.01	6.01
AT27C4096-55VI-ND	4M (256Kx16) CMOS EPROM 55nS OTP	40-VSOP	9.35	7.26	6.22
AT27C4096-90JI-ND	4M (256Kx16) CMOS EPROM 90nS OTP	44-PLCC	3.38	2.63	2.25
AT27C4096-90JU-ND	4M (256Kx16) CMOS EPROM 90nS OTP* ***NEW!***	44-PLCC	8.00	6.40	5.40
AT27C4096-90PU-ND	4M (256Kx16) CMOS EPROM 90nS OTP* ***NEW!***	40-Dip	8.00	6.40	5.40
AT27C4096-90VI-ND	4M (256Kx16) CMOS EPROM 90nS OTP	40-VSOP	8.60	6.68	5.72
AT27C080-90JI-ND	8M (1Mx8) CMOS EPROM 90nS OTP	32-PLCC	5.59	4.35	3.72
AT27C080-90JU-ND	8M (1Mx8) CMOS EPROM 90nS OTP* ***NEW!***	32-PLCC	11.65	10.49	9.30
AT27C080-90JC-ND	8M (1Mx8) CMOS EPROM 90nS OTP	32-PLCC	5.59	4.35	3.72
AT27C080-90PI-ND	8M (1Mx8) CMOS EPROM 90nS OTP	32-Dip	5.59	4.35	3.72
AT27C080-90TI-ND	8M (1Mx8) CMOS EPROM 90nS OTP	32-TSOP	5.59	4.35	3.72
AT27C080-90TU-ND	8M (1Mx8) CMOS EPROM 90nS OTP* ***NEW!***	32-TSOP	12.15	10.94	9.70

ATMEL PARALLEL EEPROM

Parallel EEPROM: Battery-Voltage (2.7 to 3.6V)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT28BV16-25JC-ND	16K (2Kx8) 2.7V EEPROM, 250nS	32-PLCC	3.87	2.60	2.35
AT28BV16-25PI-ND	16K (2Kx8) 2.7V EEPROM, 250nS	24-Dip	4.41	3.00	2.70
AT28BV16-25SC-ND	16K (2Kx8) 2.7V EEPROM, 250nS	24-SOIC	4.30	2.85	2.55
AT28BV64-20SC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-SOIC	6.24	4.20	3.75
AT28BV64-20TI-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-TSOP	7.10	4.75	4.25
AT28BV64B-20JU-ND	64K (8Kx8) 2.7V EEPROM, 200nS* ***NEW!***	32-PLCC	8.80	7.04	5.94
AT28BV64B-20PC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-Dip	21.50	14.50	13.00
AT28BV64B-20PI-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-Dip	2.69	1.84	1.63
AT28BV64B-20SC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-SOIC	21.72	14.65	13.15
AT28BV64B-20SI-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-SOIC	3.12	2.09	1.87
AT28BV64B-20TC-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-TSOP	21.72	14.65	13.15
AT28BV64B-20TI-ND	64K (8Kx8) 2.7V EEPROM, 200nS	28-TSOP	3.12	2.09	1.87
AT28BV64B-20TU-ND	64K (8Kx8) 2.7V EEPROM, 200nS* ***NEW!***	28-TSOP	9.00	7.20	6.08
AT28BV64B-25SU-ND	64K (8Kx8) 2.7V EEPROM, 250nS* ***NEW!***	28-SOIC	9.00	7.20	6.08
AT28BV256-20JC-ND	256K (32Kx8) 2.7V EEPROM, 200nS	32-PLCC	25.16	16.95	15.21
AT28BV256-20JI-ND	256K (32Kx8) 2.7V EEPROM, 200nS	32-PLCC	5.38	3.63	3.26
AT28BV256-20JU-ND	256K (32Kx8) 2.7V EEPROM, 200nS* ***NEW!***	32-PLCC	8.60	6.88	5.81
AT28BV256-20PC-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-Dip	25.16	16.95	15.21
AT28BV256-20PI-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-Dip	5.38	3.63	3.26
AT28BV256-20SC-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-SOIC	25.37	17.10	15.35

* ***RoHS Compliant***

(Continued)

PARALLEL EEPROM *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT28BV256-20SU-ND	256K (32Kx8) 2.7V EEPROM, 200nS* **NEW!**	28-SOIC	8.80	7.04	5.94
AT28BV256-20TC-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-TSOP	25.37	17.10	15.35
AT28BV256-20TI-ND	256K (32Kx8) 2.7V EEPROM, 200nS	28-TSOP	5.48	3.71	3.33
AT28BV256-20TU-ND	256K (32Kx8) 2.7V EEPROM, 200nS* **NEW!**	28-TSOP	8.80	7.04	5.94

Parallel EEPROM: Low-Voltage (3.0 to 3.6V)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT28LV64B-20JC-ND	64K (8Kx8) 3.0V EEPROM, 200nS	32-PLCC	5.70	3.80	3.40
AT28LV64B-20JI-ND	64K (8Kx8) 3.0V EEPROM, 200nS	32-PLCC	6.45	4.40	3.90
AT28LV64B-20PC-ND	64K (8Kx8) 3.0V EEPROM, 200nS	28-Dip	5.70	3.80	3.40
AT28LV64B-20PI-ND	64K (8Kx8) 3.0V EEPROM, 200nS	28-Dip	6.45	4.40	3.90
AT28LV64B-20SI-ND	64K (8Kx8) 3.0V EEPROM, 200nS	28-SOIC	7.10	4.75	4.25
AT28LV64B-20TC-ND	64K (8Kx8) 3.0V EEPROM, 200nS	28-TSOP	6.24	4.20	3.75
AT28LV256-20JC-ND	256K (32Kx8) 3.0V EEPROM, 200nS	32-PLCC	12.47	8.35	7.50
AT28LV256-20PC-ND	256K (32Kx8) 3.0V EEPROM, 200nS	28-Dip	12.47	8.35	7.50
AT28LV256-20PI-ND	256K (32Kx8) 3.0V EEPROM, 200nS	28-Dip	14.30	9.65	8.65
AT28LV256-20SC-ND	256K (32Kx8) 3.0V EEPROM, 200nS	28-SOIC	13.65	9.20	8.25
AT28LV256-20SI-ND	256K (32Kx8) 3.0V EEPROM, 200nS	28-SOIC	15.48	10.45	9.40
AT28LV010-20JC-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-PLCC	89.44	60.30	54.10
AT28LV010-20JI-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-PLCC	28.06	18.93	16.99
AT28LV010-20JU-ND	1M (128Kx8) 3.0V EEPROM, 200nS* **NEW!**	32-PLCC	34.35	32.06	29.77
AT28LV010-20PC-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-Dip	89.44	60.30	54.10
AT28LV010-20PI-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-Dip	49.24	33.20	29.76
AT28LV010-20TC-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-TSOP	89.66	60.45	54.20
AT28LV010-20TI-ND	1M (128Kx8) 3.0V EEPROM, 200nS	32-TSOP	28.06	18.93	16.95
AT28LV010-20TU-ND	1M (128Kx8) 3.0V EEPROM, 200nS* **NEW!**	32-TSOP	34.50	32.20	29.90

Parallel EEPROM: Standard Voltage (5.0V)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT28C64-12JC-ND	64K (8Kx8) 5V EEPROM, 120nS	32-PLCC	11.83	8.00	7.15
AT28C64-12JI-ND	64K (8Kx8) 5V EEPROM, 120nS	32-PLCC	5.16	3.50	3.15
AT28C64-12PC-ND	64K (8Kx8) 5V EEPROM, 120nS	28-Dip	11.83	8.00	7.15
AT28C64-12PI-ND	64K (8Kx8) 5V EEPROM, 120nS	28-Dip	5.16	3.50	3.15
AT28C64-12SC-ND	64K (8Kx8) 5V EEPROM, 120nS	28-SOIC	12.04	8.10	7.30
AT28C64-12SI-ND	64K (8Kx8) 5V EEPROM, 120nS	28-SOIC	5.38	3.65	3.30
AT28C64-12TC-ND	64K (8Kx8) 5V EEPROM, 120nS	28-TSOP	12.04	8.10	7.30
AT28C64B-15JU-ND	64K (8Kx8) 5V EEPROM, 150nS* **NEW!**	32-PLCC	5.18	4.14	3.22
AT28C64B-15PC-ND	64K (8Kx8) 5V EEPROM, 150nS	28-Dip	11.29	7.60	6.85
AT28C64B-15PU-ND	64K (8Kx8) 5V EEPROM, 150nS* **NEW!**	28-Dip	5.18	4.14	3.22
AT28C64B-15SU-ND	64K (8Kx8) 5V EEPROM, 150nS* **NEW!**	28-SOIC	5.40	4.32	3.36
AT28C64B-15TU-ND	64K (8Kx8) 5V EEPROM, 150nS* **NEW!**	28-TSOP	5.40	4.32	3.36
AT28C64E-12JU-ND	64K (8Kx8) 5V EEPROM, 120nS* **NEW!**	32-PLCC	5.40	4.32	3.36
AT28C64E-12SU-ND	64K (8Kx8) 5V EEPROM, 120nS* **NEW!**	28-SOIC	5.00	4.00	3.38
AT28C64E-12TU-ND	64K (8Kx8) 5V EEPROM, 120nS* **NEW!**	28-TSOP	5.00	4.00	3.38
AT28HC64B-70JC-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	32-PLCC	21.50	14.50	13.00
AT28HC64B-70JI-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	32-PLCC	4.62	3.11	2.80
AT28HC64B-70PI-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-Dip	9.46	6.40	5.70
AT28HC64B-70SC-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-SOIC	21.72	14.65	13.15
AT28HC64B-70SI-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-SOIC	4.95	3.33	3.00
AT28HC64B-70TC-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-TSOP	21.72	14.65	13.15
AT28HC64B-70TI-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-TSOP	4.95	3.33	3.00
AT28HC64B-70PC-ND	64K (8Kx8) 5V EEPROM, High Speed, 70nS	28-Dip	21.50	14.50	13.00
AT28HC64B-90JI-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS	32-PLCC	4.62	3.11	2.78
AT28HC64B-90JU-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	32-PLCC	6.60	5.28	4.46
AT28HC64B-90PU-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	28-Dip	6.60	5.28	4.46
AT28HC64B-90SC-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS	28-SOIC	19.00	13.68	11.40
AT28HC64B-90SU-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	28-SOIC	6.80	5.44	4.59
AT28HC64B-90TC-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS	28-TSOP	19.00	15.20	11.40
AT28HC64B-90TU-ND	64K (8Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	28-TSOP	6.80	5.44	4.59
AT28HC64B-12JC-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS	32-PLCC	13.75	9.90	8.25
AT28HC64B-12JU-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS* **NEW!**	32-PLCC	5.40	4.32	3.36
AT28HC64B-12TC-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS	28-TSOP	12.04	9.52	7.84
AT28HC64B-12TI-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS	28-TSOP	4.19	3.32	2.73
AT28HC64B-12SU-ND	64K (8Kx8) 5V EEPROM, High Speed, 120nS* **NEW!**	28-SOIC	5.00	4.00	3.38
AT28C256-15JC-ND	256K (32Kx8) 5V EEPROM, 150nS	32-PLCC	4.73	3.21	2.87
AT28C256-15JI-ND	256K (32Kx8) 5V EEPROM, 150nS	32-PLCC	4.84	3.27	2.94
AT28C256-15JU-ND	256K (32Kx8) 5V EEPROM, 150nS* **NEW!**	32-PLCC	6.90	5.52	4.66
AT28C256-15PC-ND	256K (32Kx8) 5V EEPROM, 150nS	28-Dip	4.73	3.21	2.87
AT28C256-15PI-ND	256K (32Kx8) 5V EEPROM, 150nS	28-Dip	4.84	3.27	2.94
AT28C256-15PU-ND	256K (32Kx8) 5V EEPROM, 150nS* **NEW!**	28-Dip	7.10	5.68	4.80
AT28C256-15SC-ND	256K (32Kx8) 5V EEPROM, 150nS	28-SOIC	23.97	16.15	14.45
AT28C256-15SI-ND	256K (32Kx8) 5V EEPROM, 150nS	28-SOIC	5.16	3.48	3.12
AT28C256-15SU-ND	256K (32Kx8) 5V EEPROM, 150nS* **NEW!**	28-SOIC	7.10	5.68	4.80
AT28C256-15TC-ND	256K (32Kx8) 5V EEPROM, 150nS	28-TSOP	23.97	16.15	14.45
AT28C256-15TU-ND	256K (32Kx8) 5V EEPROM, 150nS* **NEW!**	28-TSOP	7.10	5.68	4.80
AT28C256E-15JU-ND	256K (32Kx8) 5V EEPROM, 150nS* **NEW!**	32-PLCC	8.30	6.64	5.61
AT28C256E-15PU-ND	256K (32Kx8) 5V EEPROM, 150nS* **NEW!**	28-Dip	8.10	6.48	5.47
AT28C256E-15SU-ND	256K (32Kx8) 5V EEPROM, 150nS* **NEW!**	28-SOIC	8.30	6.64	5.61
AT28C256E-15TU-ND	256K (32Kx8) 5V EEPROM, 150nS* **NEW!**	28-TSOP	8.30	6.64	5.61
AT28C256EF-15JU-ND	256K (32Kx8) 5V EEPROM, 150nS* **NEW!**	32-PLCC	16.49	14.85	13.17
AT28C256F-15JU-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS* **NEW!**	32-PLCC	8.30	6.64	5.61
AT28C256F-15SC-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS	28-SOIC	32.38	23.31	19.43
AT28C256F-15SU-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS* **NEW!**	28-SOIC	8.30	6.64	5.61
AT28C256F-15PU-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS* **NEW!**	28-Dip	8.10	6.48	5.47
AT28C256F-15TC-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS	28-TSOP	32.38	23.31	19.43
AT28C256F-15TU-ND	256K (32Kx8) 5V EEPROM, Fast Write, 150nS* **NEW!**	28-TSOP	8.30	6.64	5.61
AT28HC256-70JC-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	32-PLCC	45.15	30.45	27.30
AT28HC256-70JI-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	32-PLCC	8.71	5.88	5.27
AT28HC256-70PC-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-Dip	45.15	30.45	27.30
AT28HC256-70PI-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-Dip	8.71	5.88	5.27
AT28HC256-70SC-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-SOIC	45.37	30.60	27.45
AT28HC256-70SI-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-SOIC	14.41	9.70	8.70
AT28HC256-70TC-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-TSOP	45.37	30.60	27.45
AT28HC256-70TI-ND	256K (32Kx8) 5V EEPROM, High Speed, 70nS	28-TSOP	9.78	6.59	5.91
AT28HC256-90JC-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS	32-PLCC	33.86	22.85	20.50
AT28HC256-90JI-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS	32-PLCC	6.67	4.50	4.03
AT28HC256-90JU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	32-PLCC	9.90	7.92	6.69
AT28HC256-90PU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	28-Dip	8.41	7.58	6.72
AT28HC256-90SU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	28-SOIC	8.41	7.58	6.72
AT28HC256-90TC-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS	28-TSOP	34.08	23.00	20.60
AT28HC256-90TI-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS	28-TSOP	8.71	5.89	5.28
AT28HC256-90TU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	28-TSOP	8.41	7.58	6.72
AT28HC256-12JC-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	32-PLCC	24.83	16.75	15.00
AT28HC256-12JI-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	32-PLCC	6.13	4.14	3.70
AT28HC256-12JU-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS* **NEW!**	32-PLCC	7.30	5.84	4.93
AT28HC256-12PI-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	28-Dip	6.13	4.14	3.70
AT28HC256-12PU-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS* **NEW!**	28-Dip	7.50	6.00	5.07
AT28HC256-12SU-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS* **NEW!**	28-SOIC	7.50	6.00	5.07
AT28HC256-12TC-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	28-TSOP	25.05	16.90	15.15
AT28HC256-12TI-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS	28-TSOP	6.34	4.28	3.84
AT28HC256-12TU-ND	256K (32Kx8) 5V EEPROM, High Speed, 120nS* **NEW!**	28-TSOP	7.50	6.00	5.07
AT28HC256E-90JU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	32-PLCC	8.70	6.96	5.88
AT28HC256E-90PU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	28-Dip	9.66	8.70	7.72
AT28HC256E-90SU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	28-SOIC	9.83	8.85	7.85
AT28HC256E-90TU-ND	256K (32Kx8) 5V EEPROM, High Speed, 90nS* **NEW!**	28-TSOP	9.83	8.85	7.85
AT28HC256F-90JC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	32-PLCC	46.00	33.12	27.60
AT28HC256F-90JU-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS* **NEW!**	32-PLCC	9.83	8.85	7.85
AT28HC256F-90PC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	28-Dip	36.80	27.60	23.00
AT28HC256F-90PU-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS* **NEW!**	28-Dip	9.83	8.85	7.85
AT28HC256F-90SU-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS* **NEW!**	28-SOIC	9.83	8.85	7.85
AT28HC256F-90TC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	28-TSOP	46.25	27.75	23.13
AT28HC256F-90TI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS	28-TSOP	9.78	6.59	5.91
AT28HC256F-90TU-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 90nS* **NEW!**	28-TSOP	9.83	8.85	7.85
AT28HC256F-12JC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	32-PLCC	29.03	22.95	18.90
AT28HC256F-12SC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	28-SOIC	29.24	19.70	17.65
AT28HC256F-12SI-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	28-SOIC	9.35	6.30	5.65
AT28HC256F-12TC-ND	256K (32Kx8) 5V EEPROM, HS, Fast Write, 120nS	28-TSOP	27.20	20.40	17.65
AT28C010-12JI-ND	1M (128Kx8) 5V EEPROM, 120nS	32-PLCC	28.27	19.05	17.09
AT28C010-12JU-ND	1M (128Kx8) 5V EEPROM, 120nS* **NEW!**	32-PLCC	20.40	19.04	17.68
AT28C010-12PC-ND	1M (128Kx8) 5V EEPROM, 120nS	32-Dip	28.06	18.91	16.98
AT28C010-12PI-ND	1M (128Kx8) 5V EEPROM, 120nS	32-Dip	28.06	18.91	16.96
AT28C010-12TC-ND	1M (128Kx8) 5V EEPROM, 120nS	32-TSOP	53.43	36.00	32.26
AT28C010-12TI-ND	1M (128Kx8) 5V EEPROM, 120nS	32-TSOP	29.13	19.64	17.63
AT28C010-12TU-ND	1M (128Kx8) 5V EEPROM, 120nS* **NEW!**	32-TSOP	20.55	19.18	17.81
AT28C010-15JC-ND	1M (128Kx8) 5V EEPROM, 150nS	32-PLCC	50.85	34.30	30.75
AT28C010-15JU-ND	1M (128Kx8) 5V EEPROM, 150nS* **NEW!**	32-PLCC	19.50	18.20	16.90
AT28C010-15PC-ND	1M (128Kx8) 5V EEPROM, 150nS	32-Dip	50.85	34.30	30.75
AT28C010-15PU-ND	1M (128Kx8) 5V EEPROM, 150nS* **NEW!**	32-Dip	19.50	18.20	16.90
AT28C010-15TC-ND	1M (128Kx8) 5V EEPROM, 150nS	32-TSOP	59.38	42.75	35.63
AT28C010-15TU-ND	1M (128Kx8) 5V EEPROM, 150nS* **NEW!**	32-TSOP	19.65	18.34	17.03
AT28C010E-12JC-ND	1M (128Kx8) 5V EEPROM, 120nS	32-PLCC	58.16	39.20	35.16
AT28C010E-12JU-ND	1M (128Kx8) 5V EEPROM, 120nS* **NEW!**	32-PLCC	22.28	20.79	19.31
AT28C010E-12PC-ND	1M (128Kx8) 5V EEPROM, 120nS	32-Dip	58.16	39.20	35.16
AT28C010E-12PI-ND	1M (128Kx8) 5V EEPROM, 120nS	32-Dip	31.93	21.55	19.30
AT28C010E-12TC-ND	1M (128Kx8) 5V EEPROM, 120nS	32-TSOP	58.37	39.35	35.25
AT28C010E-12TI-ND	1M (128Kx8) 5V EEPROM, 120nS	32-TSOP	32.14	21.70	19.45
AT28C040-20BI-ND	4M (512Kx8) 5V EEPROM, 200nS	32-CDip	623.50	420.55	377.05

FLASH MEMORY

Flash Memory: Single Voltage (1.65V to 1.95V) Read and Write

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT49SV802A-90CU-ND	8M (512Kx16/1Mx8) 1.8V Flash, 90nS* **NEW!**	48-CBGA	2.68	2.15	1.67
AT49SV802A-90TU-ND	8M (512Kx16/1Mx8) 1.8V Flash, 90nS* **NEW!**	48-TSOP	2.34	1.88	1.46
AT49SV322A-80CU-ND	32M (2Mx16/4Mx8) 1.8V Flash, 80nS* **NEW!**	48-CBGA	4.05	3.24	2.52
AT49SV322A-80TU-ND	32M (2Mx16/4Mx8) 1.8V Flash, 80nS* **NEW!**	48-TSOP	3.71	2.97	2.31

Flash Memory: Battery-Voltage Single-Voltage Read and Write

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT29BV010A-12JC-ND	1M (128Kx8) 2.7V Small Sector Flash, 120nS	32-PLCC	2.52	1.93	1.67
AT29BV010A-12JI-ND	1M (128Kx8) 2.7V Small Sector Flash, 120nS	32-PLCC	2.52	1.92	1.67
AT29BV010A-12JU-ND	1M (128Kx8) 2.7V Small Sector Flash, 120nS* **NEW!**	32-PLCC	2.63	2.11	1.64
AT29BV010A-12TC-ND	1M (128Kx8) 2.7V Small Sector Flash, 120nS	32-TSOP	2.52	1.93	1.67
AT29BV010A-12TI-ND	1M (128Kx8) 2.7V Small Sector Flash, 120nS	32-TSOP	2.52	1.91	1.67
AT29BV010A-12TU-ND	1M (128Kx8) 2.7V Small Sector Flash, 120nS* **NEW!**	32-TSOP	2.63	2.11	1.64
AT29BV010A-15JU-ND	1M (128Kx8) 2.7V Small Sector Flash, 150nS* **NEW!**	32-PLCC	2.63	2.11	1.64
AT29BV010A-15TU-ND	1M (128Kx8) 2.7V Small Sector Flash, 150nS* **NEW!**	32-TSOP	2.63	2.11	1.64
AT29BV010A-20JI-ND	1M (128Kx8) 2.7V Small Sector Flash, 200nS	32-PLCC	2.90	2.24	2.03
AT29BV010A-20TC-ND	1M (128Kx8) 2.7V Small Sector Flash, 200nS	32-TSOP	2.90	2.26	2.05
AT29BV010A-20TI-ND	1M (128Kx8) 2.7V Small Sector Flash, 200nS	32-TSOP	2.68	2.21	1.93
AT29BV020-12JC-ND	2M (256Kx8) 2.7V Small Sector Flash, 120nS	32-PLCC	3.31	2.52	2.20
AT29BV020-12JI-ND	2M (256Kx8) 2.7V Small Sector Flash, 120nS	32-PLCC	3.31	2.55	2.21
AT29BV020-12TC-ND	2M (256Kx8) 2.7V Small Sector Flash, 120nS	32-TSOP	3.31	2.51	2.20
AT29BV020-12TI-ND	2M (256Kx8) 2.7V Small Sector Flash, 120nS	32-TSOP	3.31	2.54	2.22
AT29BV020-12TU-ND	2M (256Kx8) 2.7V Small Sector Flash, 120nS* **NEW!**	32-TSOP	3.47	2.78	2.16
AT29BV020-15JU-ND	2M (256Kx8) 2.7V Small Sector Flash, 150nS* **NEW!**	32-PLCC	3.47	2.78	2.16
AT29BV020-15TU-ND	2M (256Kx8) 2.7V Small Sector Flash, 150nS* **NEW!**	32-TSOP	3.47	2.78	2.16
AT29BV040A-20JU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 200nS* **NEW!**	32-PLCC	4.84	3.87	3.01
AT29BV040A-20TI-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 200nS	32-TSOP	4.62	3.54	3.09
AT29BV040A-20TU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 200nS* **NEW!**	32-TSOP	4.84	3.87	3.01
AT29BV040A-25JC-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 250nS	32-PLCC	14.19	10.80	9.45
AT29BV040A-25TC-ND	4M (512Kx8) 2.7V Small Sector Flash, 250nS	32-TSOP	4.62	3.54	3.08
AT29BV040A-25TI-ND	4M (512Kx8) 2.7V Small Sector Flash, 250nS	32-TSOP	4.62	3.54	3.09
AT49BV512-90TC-ND	512K (64Kx8) 2.7V Boot Flash, 90nS	32-TSOP	2.04	1.56	1.36
AT49BV512-90TI-ND	512K (64Kx8) 2.7V Boot Flash, 90nS	32-TSOP	6.24	4.75	4.15
AT49BV512-12TC-ND	512K (64Kx8) 2.7V Boot Flash, 120nS	32-TSOP	2.04	1.56	1.36
AT49BV512-12TI-ND	512K (64Kx8) 2.7V Boot Flash, 120nS	32-TSOP	6.24	4.75	4.15
AT49BV512-70VC-ND	512K (64Kx8) 2.7V Battery-Voltage Flash, 70nS	32-VSOP	5.70	4.35	3.80
AT49BV512-90VC-ND	512K (64Kx8) 2.7V Battery-Voltage Flash, 90nS	32-VSOP	2.04	1.56	1.37
AT49BV512-90VI-ND	512K (64Kx8) 2.7V Battery-Voltage Flash, 90nS	32-VSOP	1.40	1.07	.93
AT49BV512-12VC-ND	512K (64Kx8) 2.7V Battery-Voltage Flash, 120nS	32-VSOP	2.04	1.56	1.37
AT49BV001A-55JI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-PLCC	1.29	1.01	.92
AT49BV001A-55TI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-TSOP	1.29	1.01	.92
AT49BV001A-55VI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-VSOP	1.29	1.01	.92
AT49BV001AN-55JI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-PLCC	1.29	1.01	.92
AT49BV001AN-55TI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-TSOP	1.29	1.01	.92
AT49BV001AN-55TU-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS* **NEW!**	32-TSOP	1.50	1.20	.90
AT49BV001AN-55VI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-VSOP	1.29	1.01	.92
AT49BV001AN-55VU-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS* **NEW!**	32-VSOP	1.50	1.20	.90
AT49BV001ANT-55JI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-PLCC	1.29	1.01	.92
AT49BV001ANT-55JU-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS* **NEW!**	32-PLCC	1.50	1.20	.90
AT49BV001ANT-55TI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-TSOP	1.29	1.01	.92
AT49BV001ANT-55TU-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS* **NEW!**	32-TSOP	1.50	1.20	.90
AT49BV001ANT-55VI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-VSOP	1.29	1.01	.92
AT49BV001ANT-55VU-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS* **NEW!**	32-VSOP	1.50	1.20	.90
AT49BV001AT-55JI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-PLCC	1.29	1.01	.92
AT49BV001AT-55TI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-TSOP	1.29	1.01	.92
AT49BV001AT-55VI-ND	1M (128Kx8) 2.7V Battery-Voltage Flash, 55nS	32-VSOP	1.29	1.01	.92

* **RoHS Compliant**

(Continued)

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT49BV002A-70JI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-PLCC	1.44	1.12	1.02
AT49BV002A-70TI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-TSOP	1.44	1.12	1.02
AT49BV002A-70VI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-VSOP	1.44	1.12	1.02
AT49BV002AN-70JI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-PLCC	1.44	1.12	1.02
AT49BV002AN-70JU-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70ns* ***NEW!***	32-PLCC	1.68	1.34	1.01
AT49BV002AN-70TI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-TSOP	1.44	1.12	1.02
AT49BV002AN-70TU-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS* ***NEW!***	32-TSOP	1.68	1.34	1.01
AT49BV002AN-70VI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-VSOP	1.44	1.12	1.02
AT49BV002AN-70VU-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS* ***NEW!***	32-VSOP	1.68	1.34	1.01
AT49BV002ANT-70JI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-PLCC	1.44	1.12	1.02
AT49BV002ANT-70JU-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS* ***NEW!***	32-PLCC	1.68	1.34	1.01
AT49BV002ANT-70TI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-TSOP	1.44	1.12	1.02
AT49BV002ANT-70VI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-VSOP	1.44	1.12	1.02
AT49BV002AT-70JI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-PLCC	1.44	1.12	1.02
AT49BV002AT-70TI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-TSOP	1.44	1.12	1.02
AT49BV002AT-70VI-ND	2M (256Kx8) 2.7V Battery-Voltage Flash, 70nS	32-VSOP	1.44	1.12	1.02
AT49BV002-90JC-ND	2M (256Kx8) 2.7V Parametric Flash, 90nS	32-PLCC	5.16	4.09	3.69
AT49BV002-90JI-ND	2M (256Kx8) 2.7V Parametric Flash, 90nS	32-PLCC	5.68	4.46	4.03
AT49BV002N-90JC-ND	2M (256Kx8) 2.7V Parametric Flash (No Reset), 90nS	32-PLCC	5.16	4.09	3.69
AT49BV002N-90TI-ND	2M (256Kx8) 2.7V Parametric Flash (No Reset), 90nS	32-TSOP	6.54	5.08	4.60
AT49BV040-12TC-ND	4M (512Kx8) 2.7V Boot Flash, 120nS	32-TSOP	9.12	6.90	6.28
AT49BV040-12TI-ND	4M (512Kx8) 2.7V Boot Flash, 120nS	32-TSOP	9.46	7.14	6.50
AT49BV040-12VC-ND	4M (512Kx8) 2.7V Boot Flash, 120nS	32-TSOP	9.46	7.14	6.50
AT49BV040-12VI-ND	4M (512Kx8) 2.7V Boot Flash, 120nS	32-TSOP	10.92	8.15	7.44
AT49BV040A-70JI-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 70nS	32-PLCC	1.83	1.42	1.29
AT49BV040A-70JU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 70nS* ***NEW!***	32-PLCC	2.13	1.70	1.28
AT49BV040A-70TI-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 70nS	32-TSOP	1.83	1.42	1.29
AT49BV040A-70TU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 70nS* ***NEW!***	32-TSOP	2.00	1.60	1.20
AT49BV040A-70VI-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 70nS	32-VSOP	1.83	1.42	1.29
AT49BV040A-90JI-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 90nS	32-PLCC	1.72	1.34	1.22
AT49BV040A-90TI-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 90nS	32-TSOP	1.72	1.34	1.22
AT49BV040A-90TU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 90nS* ***NEW!***	32-TSOP	2.13	1.70	1.28
AT49BV040A-90VI-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 90nS	32-VSOP	1.83	1.42	1.29
AT49BV040A-90VU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 90nS* ***NEW!***	32-VSOP	2.00	1.60	1.20
AT49BV040B-70JU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 70nS* ***NEW!***	32-PLCC	1.90	1.52	1.14
AT49BV040B-70TU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 70nS* ***NEW!***	32-TSOP	1.90	1.52	1.14
AT49BV040B-70VU-ND	4M (512Kx8) 2.7V Battery-Voltage Flash, 70nS* ***NEW!***	32-VSOP	1.90	1.52	1.14
AT49BV8192A-11CI-ND	8M (1Mx8 or 512Kx16) 2.7V Large Sector Flash, 110nS	48-CBGA	18.81	14.35	12.70
AT49BV8192A-11TC-ND	8M (1Mx8 or 512Kx16) 2.7V Large Sector Flash, 110nS	48-TSOP	17.42	13.30	11.75
AT49BV8192AT-90TI-ND	8M (1Mx8 or 512Kx16) 3V Flash, 90nS	48-TSOP	18.28	13.95	12.30
AT49BV802A-70CU-ND	8M (1Mx8 or 512Kx16) 2.65V to 3.6V, 70nS* ***NEW!***	48-CBGA	2.72	2.18	1.70
AT49BV802A-70TU-ND	8M (1Mx8 or 512Kx16) 2.65V to 3.6V, 70nS* ***NEW!***	48-TSOP	2.39	1.91	1.49
AT49BV802AT-70CU-ND	8M (1Mx8 or 512Kx16) 2.65V to 3.6V, 70nS* ***NEW!***	48-CBGA	2.72	2.18	1.70
AT49BV802AT-70TU-ND	8M (1Mx8 or 512Kx16) 2.65V to 3.6V, 70nS* ***NEW!***	48-TSOP	2.39	1.91	1.49
AT49BV160C-70CI-ND	16M (1Mx16) 3V Flash, 70nS	46-CBGA	2.77	2.16	1.94
AT49BV160C-70TI-ND	16M (1Mx16) 3V Flash, 70nS	48-TSOP	2.45	1.90	1.71
AT49BV160C-70TU-ND	16M (1Mx16) 3V Flash, 70nS* ***NEW!***	48-TSOP	2.68	2.15	1.67
AT49BV160CT-70CI-ND	16M (1Mx16) 3V Flash, 70nS	46-CBGA	2.77	2.16	1.94
AT49BV160CT-70CU-ND	16M (1Mx16) 3V Flash, 70nS* ***NEW!***	46-CBGA	3.02	2.42	1.88
AT49BV160CT-70TI-ND	16M (1Mx16) 3V Flash, 70nS	48-TSOP	2.45	1.90	1.71
AT49BV160CT-70TU-ND	16M (1Mx16) 3V Flash, 70nS* ***NEW!***	48-TSOP	2.68	2.15	1.67
AT49BV160D-70TU-ND	16M (1Mx16) 3V Flash, 70nS* ***NEW!***	48-TSOP	2.61	2.09	1.63
AT49BV160DT-70CU-ND	16M (1Mx16) 3V Flash, 70nS* ***NEW!***	48-CBGA	3.02	2.42	1.88
AT49BV160DT-70TU-ND	16M (1Mx16) 3V Flash, 70nS* ***NEW!***	48-TSOP	2.61	2.09	1.63
AT49BV161T-70TI-ND	16M (1Mx16 or 2Mx8) 2.7V Large Sector Flash, Top Boot, 70nS	48-TSOP	20.36	15.82	13.54
AT49BV162A-70CU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS* ***NEW!***	48-CBGA	3.02	2.42	1.88
AT49BV162A-70TI-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS	48-TSOP	2.56	1.99	1.79
AT49BV162A-70TU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS* ***NEW!***	48-TSOP	2.68	2.15	1.67
AT49BV162AT-70CU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS* ***NEW!***	48-CBGA	3.02	2.42	1.88
AT49BV162AT-70TU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS* ***NEW!***	48-TSOP	2.68	2.15	1.67
AT49BV163A-55CU-ND	16M (1Mx16/2Mx8) 3V Flash, 55nS* ***NEW!***	48-CBGA	3.02	2.42	1.88
AT49BV163A-70TU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS* ***NEW!***	48-TSOP	2.68	2.15	1.67
AT49BV163AT-55CU-ND	16M (1Mx16/2Mx8) 3V Flash, 55nS* ***NEW!***	48-CBGA	3.02	2.42	1.88
AT49BV163AT-70TU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS* ***NEW!***	48-TSOP	2.68	2.15	1.67
AT49BV163D-70CU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS* ***NEW!***	48-CBGA	3.02	2.42	1.88
AT49BV163D-70TU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS* ***NEW!***	48-TSOP	2.61	2.09	1.63
AT49BV163DT-70CU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS* ***NEW!***	48-CBGA	3.02	2.42	1.88
AT49BV163DT-70TU-ND	16M (1Mx16/2Mx8) 3V Flash, 70nS* ***NEW!***	48-TSOP	2.61	2.09	1.63
AT49BV320C-70CI-ND	32M (2Mx16) 3V Flash, 70nS	47-CBGA	3.76	2.93	2.63
AT49BV320C-70CU-ND	32M (2Mx16) 3V Flash, 70nS* ***NEW!***	47-CBGA	4.05	3.24	2.52
AT49BV320C-70TU-ND	32M (2Mx16) 3V Flash, 70nS* ***NEW!***	48-TSOP	3.71	2.97	2.31
AT49BV320CT-70CI-ND	32M (2Mx16) 3V Flash, 70nS	47-CBGA	3.76	2.93	2.63
AT49BV320CT-70CU-ND	32M (2Mx16) 3V Flash, 70nS* ***NEW!***	47-CBGA	4.05	3.24	2.52
AT49BV320CT-70TI-ND	32M (2Mx16) 3V Flash, 70nS	48-TSOP	3.44	2.67	2.40
AT49BV320D-70TU-ND	32M (2Mx16) 3V Flash, 70nS* ***NEW!***	48-TSOP	3.92	3.14	2.44
AT49BV320DT-70TU-ND	32M (2Mx16) 3V Flash, 70nS* ***NEW!***	48-TSOP	3.92	3.14	2.44
AT49BV322A-70CU-ND	32M (2Mx16/4Mx8) 3V Flash, 70nS* ***NEW!***	48-CBGA	4.05	3.24	2.52
AT49BV322A-70TU-ND	32M (2Mx16/4Mx8) 3V Flash, 70nS* ***NEW!***	48-TSOP	3.71	2.97	2.31
AT49BV322AT-70CU-ND	32M (2Mx16/4Mx8) 3V Flash, 70nS* ***NEW!***	48-CBGA	4.05	3.24	2.52
AT49BV322AT-70TU-ND	32M (2Mx16/4Mx8) 3V Flash, 70nS* ***NEW!***	48-TSOP	3.71	2.97	2.31
AT49BV322D-70CU-ND	32M (2Mx16/4Mx8) 3V Flash, 70nS* ***NEW!***	48-CBGA	4.30	3.44	2.68
AT49BV322D-70TU-ND	32M (2Mx16/4Mx8) 3V Flash, 70nS* ***NEW!***	48-TSOP	3.92	3.14	2.44
AT49BV322DT-70CU-ND	32M (2Mx16/4Mx8) 3V Flash, 70nS* ***NEW!***	48-CBGA	4.30	3.44	2.68
AT49BV322DT-70TU-ND	32M (2Mx16/4Mx8) 3V Flash, 70nS* ***NEW!***	48-TSOP	3.92	3.14	2.44
AT49BV6416-70TU-ND	64M (4Mx16) 2.7V Flash, 70nS* ***NEW!***	48-TSOP	8.34	6.68	5.63
AT49BV6416T-70TU-ND	64M (4Mx16) 2.7V Flash, 70nS* ***NEW!***	48-TSOP	8.16	6.53	5.51

Flash Memory: Low-Voltage (3.0 to 3.6V) Single-Voltage Read and Write

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT29LV256-15JC-ND	256K (32Kx8) 3V Small Sector Flash, 150nS	32-PLCC	3.93	3.00	2.63
AT29LV256-15JI-ND	256K (32Kx8) 3V Small Sector Flash, 150nS	32-PLCC	3.93	3.01	2.63
AT29LV256-15TC-ND	256K (32Kx8) 3V Small Sector Flash, 150nS	28-TSOP	3.93	2.99	2.62
AT29LV256-15TI-ND	256K (32Kx8) 3V Small Sector Flash, 150nS	28-TSOP	3.93	3.00	2.62
AT29LV512-12JU-ND	512K (64Kx8) 3V Small Sector Flash, 120nS* ***NEW!***	32-PLCC	2.36	1.89	1.47
AT29LV512-12TU-ND	512K (64Kx8) 3V Small Sector Flash, 120nS* ***NEW!***	32-TSOP	2.36	1.89	1.47
AT29LV512-15JI-ND	512K (64Kx8) 3V Small Sector Flash, 150nS	32-PLCC	2.26	1.71	1.49
AT29LV512-15JU-ND	512K (64Kx8) 3V Small Sector Flash, 150nS* ***NEW!***	32-PLCC	2.36	1.89	1.47
AT29LV512-15TC-ND	512K (64Kx8) 3V Small Sector Flash, 150nS	32-TSOP	2.26	1.73	1.51
AT29LV512-15TU-ND	512K (64Kx8) 3V Small Sector Flash, 150nS* ***NEW!***	32-TSOP	2.36	1.89	1.47
AT29LV010A-12JC-ND	1M (128Kx8) 3V Small Sector Flash, 120nS	32-PLCC	2.52	1.92	1.67
AT29LV010A-12JI-ND	1M (128Kx8) 3V Small Sector Flash, 120nS	32-PLCC	2.52	1.93	1.68
AT29LV010A-12TU-ND	1M (128Kx8) 3V Small Sector Flash, 120nS* ***NEW!***	32-TSOP	2.63	2.11	1.64
AT29LV010A-15JC-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-PLCC	2.52	1.92	1.67
AT29LV010A-15JI-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-PLCC	2.52	1.93	1.68
AT29LV010A-15TC-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-TSOP	2.52	1.92	1.69
AT29LV010A-15TI-ND	1M (128Kx8) 3V Small Sector Flash, 150nS	32-TSOP	2.52	1.93	1.68
AT29LV020-10JC-ND	2M (256Kx8) 3V Small Sector Flash, 100nS	32-PLCC	3.31	2.53	2.20
AT29LV020-10JI-ND	2M (256Kx8) 3V Small Sector Flash, 100nS	32-PLCC	3.31	2.52	2.20
AT29LV020-10JU-ND	2M (256Kx8) 3V Small Sector Flash, 100nS* ***NEW!***	32-PLCC	3.47	2.78	2.16
AT29LV020-10TI-ND	2M (256Kx8) 3V Small Sector Flash, 100nS	32-TSOP	3.31	2.54	2.20
AT29LV020-10TU-ND	2M (256Kx8) 3V Small Sector Flash, 100nS* ***NEW!***	32-TSOP	3.47	2.78	2.16
AT29LV020-25JI-ND	2M (256Kx8) 3V Small Sector Flash, 250nS	32-PLCC	4.09	3.11	2.72
AT29LV020-20TC-ND	2M (256Kx8) 3V Small Sector Flash, 200nS	32-TSOP	4.09	3.11	2.73
AT29LV020-20TI-ND	2M (256Kx8) 3V Small Sector Flash, 200nS	32-TSOP	4.09	3.13	2.71
AT29LV040A-15JI-ND	4M (512Kx8) 3V Small Sector Flash, 150nS	32-PLCC	4.62	3.52	3.08
AT29LV040A-15JU-ND	4M (512Kx8) 3V Small Sector Flash, 150nS* ***NEW!***	32-PLCC	4.84	3.87	3.01
AT29LV040A-15TU-ND	4M (512Kx8) 3V Small Sector Flash, 150nS* ***NEW!***	32-TSOP	4.84	3.87	3.01
AT29LV040A-20TC-ND	4M (512Kx8) 3V Small Sector Flash, 200nS	32-TSOP	5.35	4.10	3.56
AT29LV040A-20TI-ND	4M (512Kx8) 3V Small Sector Flash, 200nS	32-TSOP	5.35	4.08	3.56
AT49LV001-90JI-ND	1M (128Kx8) 2.7V Parametric Flash, 90nS	32-PLCC	4.64	3.71	3.34
AT49LV001-90TC-ND	1M (128Kx8) 2.7V Parametric Flash, 90nS	32-TSOP	5.33	4.21	3.80
AT49LV001-90VC-ND	1M (128Kx8) 2.7V Parametric Flash, 90nS	32-VSOP	5.42	4.28	3.86
AT49LV001-90VI-ND	1M (128Kx8) 2.7V Parametric Flash, 90nS	32-VSOP	5.76	4.52	4.09

Flash Memory: Standard Voltage (4.5 to 5.5V) Single-Voltage Read and Write

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT29C256-70JC-ND	256K (32Kx8) 5V Small Sector Flash, 70nS	32-PLCC	3.93	3.01	2.63
AT29C256-70JI-ND	256K (32Kx8) 5V Small Sector Flash, 70nS	32-PLCC	3.93	3.03	2.65
AT29C256-70TC-ND	256K (32Kx8) 5V Small Sector Flash, 70nS	28-TSOP	3.93	3.00	2.62
AT29C256-70TI-ND	256K (32Kx8) 5V Small Sector Flash, 70nS	28-TSOP	3.93	3.02	2.64
AT29C257-70JC-ND	256K (32Kx8) 5V Small Sector Flash, 70nS	32-PLCC	3.93	3.01	2.63
AT29C257-70JI-ND	256K (32Kx8) 5V Small Sector Flash, 70nS	32-PLCC	3.93	3.03	2.65
AT29C512-70JU-ND	512K (64Kx8) 5V Small Sector Flash, 70nS* ***NEW!***	32-PLCC	2.36	1.89	1.47
AT29C512-70TU-ND	512K (64Kx8) 5V Small Sector Flash, 70nS* ***NEW!***	32-TSOP	2.36	1.89	1.47
AT29C512-90JU-ND	512K (64Kx8) 5V Small Sector Flash, 90nS* ***NEW!***	32-PLCC	2.36	1.89	1.47
AT29C512-90TU-ND	512K (64Kx8) 5V Small Sector Flash, 90nS* ***NEW!***	32-TSOP	2.36	1.89	1.47
AT29C010A-70JC-ND	1M (128Kx8) 5V Small Sector Flash, 70nS	32-PLCC	2.52	1.92	1.68
AT29C010A-70JU-ND	1M (128Kx8) 5V Small Sector Flash, 70nS* ***NEW!***	32-PLCC	2.63	2.11	1.64
AT29C010A-70TU-ND	1M (128Kx8) 5V Small Sector Flash, 70nS* ***NEW!***	32-TSOP	2.63	2.11	1.64
AT29C010A-90JU-ND	1M (128Kx8) 5V Small Sector Flash, 90nS* ***NEW!***	32-PLCC	2.63	2.11	1.64
AT29C010A-90TU-ND	1M (128Kx8) 5V Small Sector Flash, 90nS* ***NEW!***	32-TSOP	2.63	2.11	1.64
AT29C020-12JC-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-PLCC	3.31	2.53	2.20
AT29C020-12TC-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-TSOP	3.31	2.53	2.20
AT29C020-12TI-ND	2M (256Kx8) 5V Small Sector Flash, 120nS	32-TSOP	3.31	2.53	2.21
AT29C020-70JU-ND	2M (256Kx8) 5V Small Sector Flash, 70nS* ***NEW!***	32-PLCC	3.47	2.78	2.16
AT29C020-70TU-ND	2M (256Kx8) 5V Small Sector Flash, 70nS* ***NEW!***	32-TSOP	3.47	2.78	2.16
AT29C020-90JU-ND	2M (256Kx8) 5V Small Sector Flash, 90nS* ***NEW!***	32-PLCC	3.47	2.78	2.16
AT29C020-90TC-ND	2M (256Kx8) 5V Small Sector Flash, 90nS	32-TSOP	3.31	2.53	2.21
AT29C020-90TI-ND	2M (256Kx8) 5V Small Sector Flash, 90nS	32-TSOP	3.31	2.53	2.21
AT29C020-90TU-ND	2M (256Kx8) 5V Small Sector Flash, 90nS* ***NEW!***	32-TSOP	3.47	2.78	2.16
AT29C040A-90JI-ND	4M (512Kx8) 5V Sector Flash PEROM, 90nS	32-PLCC	4.62	3.53	3.08
AT29C040A-90JU-ND	4M (512Kx8) 5V Sector Flash PEROM, 90nS* ***NEW!***	32-PLCC	4.84	3.87	3.01
AT29C040A-90TU-ND	4M (512Kx8) 5V Sector Flash PEROM, 90nS* ***NEW!***	32-TSOP	4.84	3.87	3.01
AT29C040A-12JI-ND	4M (512Kx8) 5V Sector Flash PEROM, 120nS	32-PLCC	4.62	3.53	3.08
AT29C040A-12JU-ND	4M (512Kx8) 5V Sector Flash PEROM, 120nS* ***NEW!***	32-PLCC	4.84	3.87	3.01
AT29C040A-12TU-ND	4M (512Kx8) 5V Sector Flash PEROM, 120nS* ***NEW!***	32-TSOP	4.84	3.87	3.01
AT29C040A-15JC-ND	4M (512Kx8) 5V Sector Flash PEROM, 150nS	32-PLCC	4.62	3.60	3.08
AT29C040A-15JI-ND	4M (512Kx8) 5V Sector Flash PEROM, 150nS	32-PLCC	4.62	3.53	3.08
AT49F512-55JU-ND	512K (64Kx8) 5V Flash, 55nS* ***NEW!***	32-PLCC	1.50	1.20	.90
AT49F512-55VU-ND	512K (64Kx8) 5V Flash, 55nS* ***NEW!***	32-VSOP	1.50	1.20	.90
AT49F512-70TI-ND	512K (64Kx8) 5V Flash, 70nS	32-TSOP	2.00	1.54	1.34
AT49F512-70TU-ND	512K (64Kx8) 5V Flash, 70nS* ***NEW!***	32-TSOP	1.50	1.20	.90
AT49F512-70VC-ND	512K (64Kx8) 5V Flash, 70nS	32-VSOP	2.04	1.58	1.37
AT49F512-70VI-ND	512K (64Kx8) 5V Flash, 70nS	32-VSOP	4.73	3.65	3.15
AT49F512-90VC-ND	512K (64Kx8) 5V Flash, 90nS	32-VSOP	2.04	1.57	1.37
AT49F512-90VI-ND	512K (64Kx8) 5V Flash, 90nS	32-VSOP	3.98	3.05	2.65
AT49F001-55TI-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-TSOP	6.11	4.77	4.31
AT49F001-55VC-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-VSOP	5.93	4.65	4.20
AT49F001-55VI-ND	1M (128Kx8) 5V Parametric Flash, 55nS	32-VSOP	6.36	4.95	4.48
AT49F001A-45JI-ND	1M (128Kx8) 5V Flash, 45nS	32-PLCC	1.29	1.00	.92
AT49F001A-45TI-ND	1M (128Kx8) 5V Flash, 45nS	32-TSOP	1.29	1.00	.92
AT49F001A-45VI-ND	1M (128Kx8) 5V Flash, 45nS	32-VSOP	1.29	1.00	.92
AT49F001A-55JI-ND	1M (128Kx8) 5V Flash, 55nS	32-PLCC	1.29	1.01	.90
AT49F001A-55TI-ND	1M (128Kx8) 5V Flash, 55nS	32-TSOP	1.29	1.01	.90
AT49F001A-55VI-ND	1M (128Kx8) 5V Flash, 55nS	32-VSOP	1.29	1.01	.90
AT49F001AN-45JI-ND	1M (128Kx8) 5V Flash, 45nS	32-PLCC	1.29	1.00	.92
AT49F001AN-45TI-ND	1M (128Kx8) 5V Flash, 45nS	32-TSOP	1.29	1.00	.92
AT49F001AN-45VI-ND	1M (128Kx8) 5V Flash, 45nS	32-VSOP	1.29	1.00	.92
AT49F001AN-55JI-ND	1M (128Kx8) 5V Flash, 55nS	32-PLCC	1.29	1.01	.90
AT49F001AN-55JU-ND	1M (128Kx8) 5V Flash, 55nS* ***NEW!***	32-PLCC	1.50	1.20	.90
AT49F001AN-55TI-ND	1M (128Kx8) 5V Flash, 55nS	32-TSOP	1.29	1.01	.90
AT49F001AN-55TU-ND	1M (128Kx8) 5V Flash, 55nS* ***NEW!***	32-TSOP	1.50	1.20	.90
AT49F001AN-55VI-ND	1M (128Kx8) 5V Flash, 55nS	32-VSOP	1.29	1.01	.90
AT49F001ANT-45JI-ND	1M (128Kx8) 5V Flash, 45nS	32-PLCC	1.29	1.00	.92
AT49F001ANT-45TI-ND	1M (128Kx8) 5V Flash, 45nS	32-TSOP	1.29	1.00	.92
AT49F001ANT-45VI-ND	1M (128Kx8) 5V Flash, 45nS	32-VSOP	1.29	1.00	.92
AT49F001ANT-55JI-ND	1M (128Kx8) 5V Flash, 55nS	32-PLCC	1.29	1.01	.90
AT49F001ANT-55JU-ND	1M (128Kx8) 5V Flash, 55nS* ***NEW!***	32-PLCC	1.50	1.20	.90
AT49F001ANT-55TI-ND	1M (128Kx8) 5V Flash, 55nS	32-TSOP	1.29	1.01	.90
AT49F001ANT-55VI-ND	1M (128Kx8) 5V Flash, 55nS	32-VSOP	1.29	1.01	.90
AT49F001AT-45JI-ND	1M (128Kx8) 5V Flash, 45nS	32-PLCC	1.29	1.00	.92
AT49F001AT-45TI-ND	1M (128Kx8) 5V Flash, 45nS	32-TSOP	1.29	1.00	.92
AT49F001AT-45VI-ND	1M (128Kx8) 5V Flash, 45nS	32-VSOP	1.29	1.00	.92
AT49F001AT-55JI-ND	1M (128Kx8) 5V Flash, 55nS	32-PLCC	1.29	1.01	.90
AT49F001AT-55TI-ND	1M (128Kx8) 5V Flash, 55nS	32-TSOP	1.29	1.01	.90
AT49F001AT-55VI-ND	1M (128Kx8) 5V Flash, 55nS	32-VSOP	1.29	1.01	.90
AT49F001NT-55TC-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-TSOP	5.85	4.58	4.14
AT49F001NT-55TI-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-TSOP	6.11	4.77	4.31
AT49F001NT-55VC-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-VSOP	5.93	4.65	4.20

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(Continued)

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ATMEL FLASH MEMORY *(Continued)*

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT49F001NT-55VI-ND	1M (128Kx8) 5V Parametric Flash, No Reset, Top Boot, 55nS	32-VSOP	6.36	4.95	4.48
AT49F002A-55JI-ND	2M (256Kx8) 5V Flash, 55nS	32-PLCC	1.44	1.12	1.01
AT49F002A-55TI-ND	2M (256Kx8) 5V Flash, 55nS	32-TSOP	1.44	1.12	1.01
AT49F002A-55VI-ND	2M (256Kx8) 5V Flash, 55nS	32-VSOP	1.44	1.12	1.01
AT49F002AN-55JI-ND	2M (256Kx8) 5V Flash, 55nS	32-PLCC	1.61	1.25	1.13
AT49F002AN-55JU-ND	2M (256Kx8) 5V Flash, 55nS* ***NEW!***	32-PLCC	1.68	1.34	1.01
AT49F002AN-55TI-ND	2M (256Kx8) 5V Flash, 55nS	32-TSOP	1.48	1.15	1.04
AT49F002AN-55TU-ND	2M (256Kx8) 5V Flash, 55nS* ***NEW!***	32-TSOP	1.68	1.34	1.01
AT49F002AN-55VI-ND	2M (256Kx8) 5V Flash, 55nS	32-VSOP	1.44	1.12	1.01
AT49F002ANT-55JI-ND	2M (256Kx8) 5V Flash, 55nS	32-PLCC	1.44	1.12	1.01
AT49F002ANT-55TI-ND	2M (256Kx8) 5V Flash, 55nS	32-TSOP	1.48	1.15	1.04
AT49F002ANT-55TU-ND	2M (256Kx8) 5V Flash, 55nS* ***NEW!***	32-TSOP	1.68	1.34	1.01
AT49F002ANT-55VI-ND	2M (256Kx8) 5V Flash, 55nS	32-VSOP	1.61	1.25	1.13
AT49F002ANT-55VU-ND	2M (256Kx8) 5V Flash, 55nS* ***NEW!***	32-VSOP	1.68	1.34	1.01
AT49F002AT-55JI-ND	2M (256Kx8) 5V Flash, 55nS	32-PLCC	1.44	1.12	1.01
AT49F002AT-55TI-ND	2M (256Kx8) 5V Flash, 55nS	32-TSOP	1.44	1.12	1.01
AT49F002AT-55VI-ND	2M (256Kx8) 5V Flash, 55nS	32-VSOP	1.44	1.12	1.01
AT49F002T-70VC-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-VSOP	6.28	4.89	4.43
AT49F002T-70VI-ND	2M (256Kx8) 5V Parametric Flash, Top Boot, 70nS	32-VSOP	6.62	5.14	4.65
AT49F040A-55JI-ND	4M (512Kx8) 5V Flash, 55nS	32-PLCC	1.83	1.41	1.29
AT49F040A-55JU-ND	4M (512Kx8) 5V Flash, 55nS* ***NEW!***	32-PLCC	2.13	1.70	1.28
AT49F040A-55TI-ND	4M (512Kx8) 5V Flash, 55nS	32-TSOP	1.72	1.33	1.22
AT49F040A-55TU-ND	4M (512Kx8) 5V Flash, 55nS* ***NEW!***	32-TSOP	2.13	1.70	1.28
AT49F040A-70JI-ND	4M (512Kx8) 5V Flash, 70nS	32-PLCC	1.72	1.33	1.22
AT49F040A-70JU-ND	4M (512Kx8) 5V Flash, 70nS* ***NEW!***	32-PLCC	2.13	1.70	1.28
AT49F040A-70TI-ND	4M (512Kx8) 5V Flash, 70nS	32-TSOP	1.72	1.33	1.22
AT49F040A-70TU-ND	4M (512Kx8) 5V Flash, 70nS* ***NEW!***	32-TSOP	2.00	1.60	1.20
AT49F040-70VC-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-VSOP	10.23	7.67	7.00
AT49F040-70VI-ND	4M (512Kx8) 5V Boot Flash, 70nS	32-VSOP	11.87	8.80	8.04
AT49F8192AT-70TC-ND	8M (1Mx8 or 512Kx16) 5V Large Sector Flash, Top Boot, 70nS	48-TSOP	18.06	13.80	12.20
AT49F8192AT-70TI-ND	8M (1Mx8 or 512Kx16) 5V Large Sector Flash, Top Boot, 70nS	48-TSOP	18.92	14.45	12.75
AT49F008AT-12TC-ND	8M (1Mx8 or 512Kx16) 5V Large Sector Flash, Top Boot, 120nS	48-TSOP	15.16	11.25	9.85

* *RoHS Compliant*

ATMEL SERIAL DATAFLASH

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
AT26DF081A-MU-ND	8M Serial Firmware DataFlash, 2.7V* ***NEW!***	8-MLF	3.04	2.43	1.89
AT26DF081A-SU-ND	8M Serial Firmware DataFlash, 2.7V* ***NEW!***	8-SOIC	2.70	2.16	1.68
AT26F004-MU-ND	4M Serial Firmware DataFlash, 2.7V* ***NEW!***	8-MLF	2.36	1.89	1.47
AT26F004-SSU-ND	4M Serial Firmware DataFlash, 2.7V* ***NEW!***	8-SOIC	2.25	1.80	1.35
AT26F004-SU-ND	4M Serial Firmware DataFlash, 2.7V* ***NEW!***	8-SOIC	2.25	1.80	1.35
AT45DB011B-CC-ND	1M Serial DataFlash, 2.7V	9-CBGA	2.37	1.84	1.57
AT45DB011B-CI-ND	1M Serial DataFlash, 2.7V	9-CBGA	2.52	1.95	1.67
AT45DB011B-SC-ND	1M Serial DataFlash, 2.7V	8-SOIC	1.40	1.09	.93
AT45DB011B-SI-ND	1M Serial DataFlash, 2.7V	8-SOIC	1.55	1.19	1.02
AT45DB011B-SU-ND	1M Serial DataFlash, 2.7V* ***NEW!***	8-SOIC	1.63	1.30	.98
AT45DB011B-XC-ND	1M Serial DataFlash, 2.7V	14-TSSOP	1.61	1.25	1.07
AT45DB011B-XI-ND	1M Serial DataFlash, 2.7V	14-TSSOP	1.76	1.36	1.17
AT45DB011B-XU-ND	1M Serial DataFlash, 2.7V* ***NEW!***	14-TSSOP	1.88	1.50	1.13
AT45DB021B-CC-ND	2M Serial DataFlash, 2.7V	9-CBGA	2.84	2.20	1.89
AT45DB021B-CI-ND	2M Serial DataFlash, 2.7V	9-CBGA	3.07	2.39	2.05
AT45DB021B-RC-ND	2M Serial DataFlash, 2.7V	28-SOIC	2.62	2.04	1.74
AT45DB021B-RI-ND	2M Serial DataFlash, 2.7V	28-SOIC	2.86	2.22	1.90
AT45DB021B-SC-ND	2M Serial DataFlash, 2.7V	8-SOIC	1.83	1.42	1.22
AT45DB021B-SI-ND	2M Serial DataFlash, 2.7V	8-SOIC	2.02	1.56	1.34
AT45DB021B-SU-ND	2M Serial DataFlash, 2.7V* ***NEW!***	8-SOIC	2.13	1.70	1.28
AT45DB021B-TC-ND	2M Serial DataFlash, 2.7V	28-TSOP	2.04	1.59	1.36
AT45DB021B-TI-ND	2M Serial DataFlash, 2.7V	28-TSOP	2.24	1.73	1.48
AT45DB021B-TU-ND	2M Serial DataFlash, 2.7V* ***NEW!***	28-TSOP	2.38	1.90	1.43
AT45DB041B-CC-2.5-ND	4M Serial DataFlash, 2.5V	14-CBGA	5.70	4.43	3.79
AT45DB041B-CC-ND	4M Serial DataFlash, 2.7V	14-CBGA	5.70	4.43	3.79
AT45DB041B-CI-2.5-ND	4M Serial DataFlash, 2.5V	14-CBGA	6.02	4.68	4.00
AT45DB041B-CI-ND	4M Serial DataFlash, 2.7V	14-CBGA	6.02	4.68	4.00
AT45DB041B-CNI-ND	4M Serial DataFlash, 2.7V	14-CASON	2.54	1.97	1.69
AT45DB041B-CNU-ND	4M Serial DataFlash, 2.7V* ***NEW!***	8-CASON	2.43	1.95	1.52
AT45DB041B-RC-2.5-ND	4M Serial DataFlash, 2.5V	28-SOIC	5.59	4.34	3.72
AT45DB041B-RC-ND	4M Serial DataFlash, 2.7V	28-SOIC	5.59	4.34	3.72
AT45DB041B-RI-2.5-ND	4M Serial DataFlash, 2.5V	28-SOIC	5.91	4.59	3.93
AT45DB041B-RI-ND	4M Serial DataFlash, 2.7V	28-SOIC	5.91	4.59	3.93
AT45DB041B-SC-2.5-ND	4M Serial DataFlash, 2.5V	8-SOIC	2.15	1.67	1.43
AT45DB041B-SC-ND	4M Serial DataFlash, 2.7V	8-SOIC	2.15	1.67	1.43
AT45DB041B-SI-2.5-ND	4M Serial DataFlash, 2.5V	8-SOIC	2.37	1.84	1.57
AT45DB041B-SI-ND	4M Serial DataFlash, 2.7V	8-SOIC	2.37	1.84	1.57
AT45DB041B-SU-ND	4M Serial DataFlash, 2.7V* ***NEW!***	8-SOIC	2.25	1.80	1.40
AT45DB041B-TC-2.5-ND	4M Serial DataFlash, 2.5V	28-TSOP	2.58	2.00	1.72
AT45DB041B-TC-ND	4M Serial DataFlash, 2.7V	28-TSOP	2.58	2.00	1.72
AT45DB041B-TI-2.5-ND	4M Serial DataFlash, 2.5V	28-TSOP	2.80	2.17	1.86
AT45DB041B-TI-ND	4M Serial DataFlash, 2.7V	28-TSOP	2.80	2.17	1.86
AT45DB041B-TU-ND	4M Serial DataFlash, 2.7V* ***NEW!***	28-TSOP	2.70	2.16	1.68
AT45DB081B-CC-2.5-ND	8M Serial DataFlash, 2.5V	14-CBGA	4.73	3.67	3.15
AT45DB081B-CC-ND	8M Serial DataFlash, 2.7V	14-CBGA	4.73	3.67	3.15
AT45DB081B-CI-2.5-ND	8M Serial DataFlash, 2.5V	14-CBGA	5.16	4.00	3.42
AT45DB081B-CI-ND	8M Serial DataFlash, 2.7V	14-CBGA	5.16	4.00	3.42
AT45DB081B-CNC-ND	8M Serial DataFlash, 2.7V	8-CASON	2.58	2.00	1.72
AT45DB081B-CNI-ND	8M Serial DataFlash, 2.7V	8-CASON	2.84	2.20	1.89
AT45DB081B-CNU-ND	8M Serial DataFlash, 2.7V* ***NEW!***	8-CASON	2.70	2.16	1.68
AT45DB081B-CNU-2.5-ND	8M Serial DataFlash, 2.5V* ***NEW!***	8-CASON	2.70	2.16	1.68
AT45DB081B-RC-2.5-ND	8M Serial DataFlash, 2.5V	28-SOIC	4.52	3.51	3.00
AT45DB081B-RC-ND	8M Serial DataFlash, 2.7V	28-SOIC	4.52	3.51	3.00
AT45DB081B-RI-2.5-ND	8M Serial DataFlash, 2.5V	28-SOIC	4.95	3.83	3.28
AT45DB081B-RI-ND	8M Serial DataFlash, 2.7V	28-SOIC	4.95	3.83	3.28
AT45DB081B-TC-2.5-ND	8M Serial DataFlash, 2.5V	28-TSOP	3.01	2.34	2.00
AT45DB081B-TI-2.5-ND	8M Serial DataFlash, 2.5V	28-TSOP	3.27	2.54	2.17
AT45DB081B-TI-ND	8M Serial DataFlash, 2.7V	28-TSOP	3.27	2.54	2.17
AT45DB081B-TU-ND	8M Serial DataFlash, 2.7V* ***NEW!***	28-TSOP	3.15	2.52	1.96
AT45DB161B-CC-2.5-ND	16M Serial DataFlash, 2.5V	24-CBGA	6.24	4.84	4.15
AT45DB161B-CC-ND	16M Serial DataFlash, 2.7V	24-CBGA	6.24	4.84	4.15
AT45DB161B-CI-2.5-ND	16M Serial DataFlash, 2.5V	24-CBGA	6.82	5.29	4.53
AT45DB161B-CI-ND	16M Serial DataFlash, 2.7V	24-CBGA	6.82	5.29	4.53
AT45DB161B-CNC2.5-ND	16M Serial DataFlash, 2.5V	8-CASON	4.19	3.26	2.79
AT45DB161B-CNC-ND	16M Serial DataFlash, 2.7V	8-CASON	4.19	3.26	2.79
AT45DB161B-TC-2.5-ND	16M Serial DataFlash, 2.5V	28-TSOP	4.41	3.42	2.93
AT45DB161B-TI-2.5-ND	16M Serial DataFlash, 2.5V	28-TSOP	4.79	3.72	3.18
AT45DB161B-TI-ND	16M Serial DataFlash, 2.7V	28-TSOP	4.79	3.72	3.18
AT45DB161D-MU-ND	16M Serial DataFlash, 2.7V* ***NEW!***	8-MLF	4.16	3.33	2.59
AT45DB161D-MU-2.5-ND	16M Serial DataFlash, 2.5V* ***NEW!***	8-MLF	3.98	3.09	2.65
AT45DB161D-SU-ND	16M Serial DataFlash, 2.7V* ***NEW!***	8-SOIC	3.94	3.15	2.45
AT45DB161D-SU-2.5-ND	16M Serial DataFlash, 2.5V* ***NEW!***	8-SOIC	3.94	3.15	2.45
AT45DB161D-TU-ND	16M Serial DataFlash, 2.7V* ***NEW!***	28-TSOP	4.16	3.33	2.59
AT45DB161D-TU-2.5-ND	16M Serial DataFlash, 2.5V* ***NEW!***	28-TSOP	4.16	3.33	2.59
AT45DB321C-CNU-ND	32M Serial DataFlash, 2.7V* ***NEW!***	8-CASON	5.70	4.56	3.85
AT45DB321C-CU-ND	32M Serial DataFlash, 2.7V* ***NEW!***	24-CBGA	6.70	5.36	4.53
AT45DB321C-RU-ND	32M Serial DataFlash, 2.7V* ***NEW!***	28-SOIC	6.70	5.36	4.53
AT45DB321C-TU-ND	32M Serial DataFlash, 2.7V* ***NEW!***	28-TSOP	5.90	4.72	3.99
AT45DB642D-CNU-ND	64M Serial DataFlash, Dual, 2.7V* ***NEW!***	8-CASON	9.90	7.92	6.69
AT45DB642D-TU-ND	64M Serial DataFlash, Dual, 2.7V* ***NEW!***	28-TSOP	8.50	7.65	6.79

* *RoHS Compliant*

M-Systems Flash Disk Pioneers — DiskOnChip 2000

M-Systems Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1
MD2202-D16	585-1102-5-ND	Doc2000, 16MB	32-Dip	22.50
MD2202-D16-V3	585-1104-5-ND	Doc2000, 16MB	32-Dip	24.63
MD2202-D16-V3-X	585-1103-5-ND	Doc2000, 16MB, Extended Temp.	32-Dip	25.63
MD2202-D16-X	585-1105-5-ND	Doc2000, 16MB, Extended Temp.	32-Dip	23.00
MD2202-D32	585-1114-5-ND	Doc2000, 32MB	32-Dip	25.63
MD2202-D32-V3	585-1116-5-ND	Doc2000, 32MB	32-Dip	32.00
MD2202-D32-V3-X	585-1115-5-ND	Doc2000, 32MB, Extended Temp.	32-Dip	33.63
MD2202-D32-X	585-1117-5-ND	Doc2000, 32MB, Extended Temp.	32-Dip	27.00
MD2202-D48	585-1121-5-ND	Doc2000, 48MB	32-Dip	43.25
MD2202-D48-V3	585-1122-5-ND	Doc2000, 48MB	32-Dip	45.75
MD2202-D48-V3-X	585-1123-5-ND	Doc2000, 48MB, Extended Temp.	32-Dip	49.00
MD2202-D48-X	585-1124-5-ND	Doc2000, 48MB, Extended Temp.	32-Dip	46.71
MD2202-D64	585-1125-5-ND	Doc2000, 64MB	32-Dip	37.13
MD2202-D64-V3	585-1127-5-ND	Doc2000, 64MB	32-Dip	47.38
MD2202-D64-V3-X	585-1126-5-ND	Doc2000, 64MB, Extended Temp.	32-Dip	50.50
MD2202-D64-X	585-1128-5-ND	Doc2000, 64MB, Extended Temp.	32-Dip	39.75
MD2202-D96	585-1129-5-ND	Doc2000, 96MB	32-Dip	50.00
MD2202-D96-V3	585-1130-5-ND	Doc2000, 96MB	32-Dip	52.50
MD2202-D96-V3-X	585-1131-5-ND	Doc2000, 96MB, Extended Temp.	32-Dip	56.38
MD2202-D96-X	585-1132-5-ND	Doc2000, 96MB, Extended Temp.	32-Dip	53.88
MD2202-D128	585-1098-5-ND	Doc2000, 128MB	32-Dip	52.50
MD2202-D128-V3	585-1099-5-ND	Doc2000, 128MB	32-Dip	51.50
MD2202-D128-V3-X	585-1100-5-ND	Doc2000, 128MB, Extended Temp.	32-Dip	55.50
MD2202-D128-X	585-1101-5-ND	Doc2000, 128MB, Extended Temp.	32-Dip	56.50
MD2202-D192	585-1106-5-ND	Doc2000, 192MB	32-Dip	71.50
MD2202-D192-V3	585-1107-5-ND	Doc2000, 192MB	32-Dip	70.63
MD2202-D192-V3-X	585-1108-5-ND	Doc2000, 192MB, Extended Temp.	32-Dip	76.50
MD2202-D192-X	585-1109-5-ND	Doc2000, 192MB, Extended Temp.	32-Dip	77.38
MD2202-D256	585-1110-5-ND	Doc2000, 256MB	32-Dip	92.88
MD2202-D256-V3	585-1111-5-ND	Doc2000, 256MB	32-Dip	91.88
MD2202-D256-V3-X	585-1112-5-ND	Doc2000, 256MB, Extended Temp.	32-Dip	99.88
MD2202-D256-X	585-1113-5-ND	Doc2000, 256MB, Extended Temp.	32-Dip	100.88
MD2202-D384	585-1118-5-ND	Doc2000, 384MB	32-Dip	131.88
MD2202-D384-V3	585-1119-5-ND	Doc2000, 384MB	32-Dip	130.75
MD2202-D384-V3-X	585-1120-5-ND	Doc2000, 384MB, Extended Temp.	32-Dip	142.63

M-Systems Flash Disk Pioneers — DiskOnChip G3

M-Systems Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1
MD4811-D512-V3Q18-P/Y	585-1135-ND	MDoc, G3, 512MB	48-TSOP	10.35
MD4811-D512-V3Q18-X/Y	585-1137-ND	MDoc, G3, 512MB	48-TSOP	10.78
MD4811-D512-V3Q18/Y	585-1138-ND	MDoc, G3, 512MB	48-TSOP	10.35
MD6832-D512-V18-X-P/Y	585-1141-ND	MDoc, G3, 512MB	85-FBGA	10.64

M-Systems Flash Disk Pioneers — DiskOnChip G4

M-Systems Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1
MD8832-D1G-V3-X-P	585-1147-1-ND	MDoc, G4, 1GB	69-FBGA	13.50
MD8832-D1G-V3-X-P	585-1147-2-ND	MDoc, G4, 1GB	69-FBGA	11250.00/1,000
MD8832-D1G-V3-X-P/Y	585-1151-ND	MDoc, G4, 1GB ***NEW!***	69-FBGA	11.65
MD8832-D1G-V18-X-P	585-1148-1-ND	MDoc, G4, 1GB	69-FBGA	13.50
MD8832-D1G-V18-X-P	585-1148-2-ND	MDoc, G4, 1GB	69-FBGA	11250.00/1,000
MD8331-D2G-V3-X-P	585-1149-1-ND	MDoc, G4, 2GB	69-FBGA	26.38
MD8331-D2G-V3-X-P	585-1149-2-ND	MDoc, G4, 2GB	69-FBGA	22501.00/1,000
MD8331-D2G-V18-X-P	585-1150-1-ND	MDoc, G4, 2GB	69-FBGA	26.38
MD8331-D2G-V18-X-P	585-1150-2-ND	MDoc, G4, 2GB	69-FBGA	22501.00/1,000

M-Systems Flash Disk Pioneers — EVALUATION BOARDS AND ADAPTERS

M-Systems Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1
BGA7X10-DIP32-ADPT	585-1001-ND	Adapter for BGA 7x10 to 32-Dip	—	43.00
BGA7X10-ZIF-ADPT	585-1002-ND	Adapter for BGA 7x10	—	77.00
BGA9X12-DIP32-ADPT	585-1003-ND	Adapter for BGA 9x12 to 32-Dip	—	50.00
BGA9X12-ZIF-ADPT	585-1004-ND	Adapter for BGA 9x12	—	90.00
DOC-DIP32-ADPT	585-1005-ND	Adapter for 32-Dip	—	63.00
PCI-G-EVB	585-1143-ND	Eval Board for Disk On Chip PCI-G	—	60.00

★ CALL FOR LOWER PRICING ON LARGER QUANTITIES! ★

Winbond Electronics Corporation America

WinPot™ DIGITAL POTENTIOMETER

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
WMS7130010M-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-MSOP	2.57	2.19	1.88
WMS7130010P-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-Dip	2.57	2.19	1.88
WMS7130010S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-SOIC	2.57	2.19	1.88
WMS7130050M-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 50KΩ	8-MSOP	2.57	2.19	1.88
WMS7130050P-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 50KΩ	8-Dip	2.57	2.19	1.88
WMS7130050S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 50KΩ	8-SOIC	2.57	2.19	1.88
WMS7130100P-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 100KΩ	8-Dip	2.57	2.19	1.88
WMS7130100S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 100KΩ	8-SOIC	2.57	2.19	1.88
WMS7131010M-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-MSOP	2.57	2.19	1.88
WMS7131010P-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-Dip	2.57	2.19	1.88
WMS7131010S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 10KΩ	8-SOIC	2.57	2.19	1.88
WMS7131050M-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 50KΩ	8-MSOP	2.57	2.19	1.88
WMS7131050P-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 50KΩ	8-Dip	2.57	2.19	1.88
WMS7131050S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 50KΩ	8-SOIC	2.57	2.19	1.88
WMS7131100M-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 100KΩ	8-MSOP	2.57	2.19	1.88
WMS7131100P-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 100KΩ	8-Dip	2.57	2.19	1.88
WMS7131100S-ND	Digital Potentiometer, with Up/Down Interface, 32 Tap, 100KΩ	8-SOIC	2.57	2.19	1.88
WMS7170010M-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 10KΩ	8-MSOP	2.57	2.19	1.88
WMS7170010P-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 10KΩ	8-Dip	2.57	2.19	1.88
WMS7170010S-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 10KΩ	8-SOIC	2.57	2.19	1.88
WMS7170050P-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 50KΩ	8-Dip	2.57	2.19	1.88
WMS7170050S-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 50KΩ	8-SOIC	2.57	2.19	1.88
WMS7170100M-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 100KΩ	8-MSOP	2.57	2.19	1.88
WMS7170100P-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 100KΩ	8-Dip	2.57	2.19	1.88
WMS7170100S-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 100KΩ	8-SOIC	2.57	2.19	1.88
WMS7171010M-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 10KΩ	8-MSOP	2.57	2.19	1.88
WMS7171010P-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 10KΩ	8-Dip	2.57	2.19	1.88
WMS7171010S-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 10KΩ	8-SOIC	2.57	2.19	1.88
WMS7171050M-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 50KΩ	8-MSOP	2.57	2.19	1.88
WMS7171050P-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 50KΩ	8-Dip	2.57	2.19	1.88
WMS7171050S-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 50KΩ	8-SOIC	2.57	2.19	1.88
WMS7171100M-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 100KΩ	8-MSOP	2.57	2.19	1.88
WMS7171100P-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 100KΩ	8-Dip	2.57	2.19	1.88
WMS7171100S-ND	Digital Potentiometer, with Up/Down Interface, 100 Tap, 100KΩ	8-SOIC	2.57	2.19	1.88
WMS7201050P-ND	Digital Potentiometer, 1-Channel, 256 Tap, 50KΩ	8-Dip	4.03	3.42	2.93
WMS7202010P-ND	Digital Potentiometer, 2-Channel, 256 Tap, 10KΩ	14-Dip	5.84	4.96	4.25
WMS7202050P-ND	Digital Potentiometer, 2-Channel, 256 Tap, 50KΩ	14-Dip	5.84	4.96	4.25
WMS7202100P-ND	Digital Potentiometer, 2-Channel, 256 Tap, 100KΩ	14-Dip	5.84	4.96	4.25
WMS7204050P-ND	Digital Potentiometer, 4-Channel, 256 Tap, 50KΩ	20-Dip	9.14	7.76	6.65

Winbond Electronics Corporation America

I/O CONTROLLERS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
87200FG/K1-ND	PCI to ISA Bridge	160-PQFP	12.72	10.91	9.67
87360F2-R-ND	LPC SuperI/O, Protection and GPIO Support	128-PQFP	4.95	3.77	2.88
87363F2-D-ND	LPC SuperI/O, with MIDI and Game Ports, Extended Wake-Up and Protection	128-PQFP	4.85	3.69	2.82
87364F2-R-ND	LPC SuperI/O, Extended Wake-Up/Protection	128-PQFP	6.23	4.74	3.62
87366F2-R-ND	LPC SuperI/O, Hardware Monitoring, MIDI and Game Ports	128-PQFP	5.75	4.37	3.34
87373F2-A/D1-ND	LPC SuperI/O with Glue Functions	128-PQFP	7.12	5.63	4.51
87435D5-ND	Enhanced IPMI Baseboard Management Controller	128-LQFP	15.00	14.00	13.00
97338F1/C1-ND	ACPI 1.0 and PC98/99 Super I/O	100-PQFP	7.18	5.68	4.55

Melexis Microelectronic Integrated Systems

SPECIALIZED INTEGRATED CIRCUITS

Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
MLX90217LUA-ND	Hall Effect Geartooth Speed Sensor	UA/TO-92 (flat)	6.54	3.88	2.30
MLX90247-ESF-DSA-ND	Thermopile with On-Chip PTC Thermistor	TO-39	15.29	9.05	5.38
MLX90308LDF-DA-ND	Programmable Sensor Interface	16-SOIC	25.03	14.82	8.80
MLX90314LDF-ND	High Gain Programmable Sensor Interface	16-SOIC	25.03	14.82	8.80
MLX90601EZA-BAA-ND	Infrared Thermometer Module, Analog Output, Rigid	—	59.68	35.30	20.89
MLX90601EZA-CAA-ND	Infrared Thermometer Module, SPI Serial Output, Rigid	—	59.68	35.30	20.89
MLX90601EZA-DAA-ND	Infrared Thermometer Module, PWM Output, Rigid	—	59.68	35.30	20.89
MLX90601KZA-BKA-ND	Infrared Thermometer Module, Analog/SPI Output, Flexible	—	64.26	38.01	22.50
MLX90601KZA-CKA-ND	Infrared Thermometer Module, PWM/SPI Serial Output, Flexible	—	64.26	38.01	22.50
DK90308-ND	Demo Kit for MLX90308 Sensor Interface with SOIC Socket, Serial Interface Datasheet and Programming Manual (diskette), Software, and (5) 90308 Samples	—	122.69	—	—
DK90314-ND	Demo Kit for MLX90314 Sensor Interface with SOIC Socket, Serial Interface Datasheet and Programming Manual (diskette), Software and (5) 90314 Samples	—	131.67	—	—
EVB90601-ND	Evaluation Board for MLX90601 Infrared Thermometer Module, Supply, Serial Cable, Manual and Software	—	179.55	—	—

SHARP MICROELECTRONICS

MEMORY

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	25	100
LH5116-10F	425-1932-5-ND	16K Slow SRAM, 5V, 100nS*	24-Dip	4.88	3.42	2.93
LH28F008SCT-L85	425-1835-ND	8M Symmetrical Block Flash, 3.3V or 5V, 85nS	40-TSOP	11.70	9.17	8.80
LH28F008SAT-85	425-1836-ND	8M Symmetrical Block Flash, 5V, 85nS	40-TSOP	14.04	11.00	10.56
LH28F160S5HT-L70	425-1841-ND	16M Symmetrical Block Flash, 5V, 70nS	56-TSOP	32.66	25.58	24.56
LH28F640SPHT-PTLZ8	425-1878-ND	64M Symmetrical Block Flash, 3.3V, 120nS	56-TSOP	8.66	7.68	6.93
F128SPHTDPTLZ5	425-1871-ND	128M Symmetrical Block Flash, 3.3V, 120nS	56-TSOP	25.38	20.01	19.29
F800BJHEPBTLT9	425-1879-ND	8M Bottom Boot Block Flash, 3.3V, 90nS	48-TSOP	5.81	5.15	4.65
F800BJHEPTTLT6	425-1880-ND	8M Top Boot Block Flash, 3.3V, 90nS	48-TSOP	5.81	5.15	4.65
LHF00L28	425-1885-ND	16M Top Boot Block Flash, 3V, 70nS	48-TSOP	3.90	3.42	2.93
LHF00L29	425-1886-ND	16M Bottom Boot Block Flash, 3V, 70nS	48-TSOP	3.90	3.42	2.93
LHF00L30	425-1887-ND	16M Top Boot Block Flash, 3V, 70nS	48-TSOP	3.90	3.42	2.93
LHF00L31	425-1888-ND	16M Bottom Boot Block Flash, 3V, 70nS	48-TSOP	3.90	3.42	2.93
LH28F160BJHE-TTL90	425-1824-ND	16M Top Boot Block Flash, 3.3V, 90nS	48-TSOP	17.81	15.79	14.25
LHF00L12	425-1881-ND	32M Top Boot Block Flash, 3V, 70nS	48-TSOP	6.27	5.55	5.02
LHF00L13	425-1882-ND	32M Bottom Boot Block Flash, 3V, 70nS	48-TSOP	6.27	5.55	5.02
LHF00L14	425-1883-ND	32M Top Boot Block Flash, 3V, 70nS	48-TSOP	6.27	5.55	5.02
LHF00L15	425-1884-ND	32M Bottom Boot Block Flash, 3V, 70nS	48-TSOP	6.27	5.55	5.02
F320BJHEPTTL90	425-1826-ND	32M Top Boot Block Flash, 3.3V, 90nS	48-TSOP	15.68	13.89	12.55
F640BFHEPBTL70A	425-1874-ND	64M Bottom Boot Block Flash, 3.3V, 70nS	48-TSOP	12.86	11.40	10.29
F640BFHEPBTLHGA	425-1875-ND	64M Bottom Boot Block Flash, 3.3V, 70nS	48-TSOP	10.50	9.30	8.40
F640BFHEPTTLHFA	425-1876-ND	64M Top Boot Block Flash, 3.3V, 70nS	48-TSOP	10.50	9.30	8.40
F640BFHEPTTL70A	425-1877-ND	64M Top Boot Block Flash, 3.3V, 70nS	48-TSOP	10.50	9.30	8.40
F640BFHEPBTL90	425-1827-ND	64M Bottom Boot Block Flash, 3.3V, 90nS	48-TSOP	28.18	24.96	22.54
F128BFHTPBTL75A	425-1869-ND	128M Bottom Boot Block Flash, 3.3V, 75nS	56-TSOP	18.38	14.49	13.97
F128BFHTPTTL75A	425-1870-ND	128M Top Boot Block Flash, 3.3V, 75nS	56-TSOP	18.38	14.49	13.97
F256BFHTPBSL85	425-1872-ND	256M Bottom Boot Block Flash, 1.8V, 85nS	56-TSOP	35.00	27.60	26.60
F256BFHTPTSL85	425-1873-ND	256M Top Boot Block Flash, 1.8V, 85nS	56-TSOP	35.00	27.60	26.60

* *RoHS Compliant*

SHARP MICROELECTRONICS

SMALL TFT DISPLAY GSIC/ASIC

Sharp Part No.	Digi-Key Part No.	Description	Pkg.	Price Each★ 1	10	100
IR3E3074	425-2494-1-ND	Generates Gamma Correction Reference Voltage for TFT LCD Color Monitors	12-SSOP	7.77	5.83	4.54
IR3E3074	425-2494-2-ND	Generates Gamma Correction Reference Voltage for TFT LCD Color Monitors	12-SSOP	9065.00/2,500		
IR3E3126	425-2492-1-ND	Generates Gamma Correction Reference Voltage for TFT LCD Color Monitors	20-QFN	7.77	5.83	4.54
IR3E3126	425-2492-2-ND	Generates Gamma Correction Reference Voltage for TFT LCD Color Monitors	20-QFN	9065.00/2,500		
IR3E3146	425-2493-1-ND	Generates Gamma Correction Reference Voltage for TFT LCD Color Monitors	20-QFN	7.77	5.83	4.54
IR3E3146	425-2493-2-ND	Generates Gamma Correction Reference Voltage for TFT LCD Color Monitors	20-QFN	9065.00/2,500		
LZ9FC23	425-2496-ND	Timing Control IC for TFT-LCD Module	72-QFP	6.48	4.79	4.04
LZ9FD534	425-2495-1-ND	Timing Control IC for TFT-LCD Module	28-QFN	5.76	5.04	4.04
LZ9FD534	425-2495-2-ND	Timing Control IC for TFT-LCD Module	28-QFN	7912.50/2,500		

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Panasonic® Voltage Detectors

Highly Reliable, Easy-to-Use CMOS LSI Is for Voltage Detection

The MN1380 Series is a series of devices with functions for:
• Monitoring the power supply voltage supplied to microcomputers and to LSI systems • Generating the RESET signal for carrying out initialization when the power supply is turned ON • Preventing runaway in systems when the power supply voltage fluctuates. Recently, there has been an increase in the number of battery-driven products such as cordless telephones, notebook-type personal computers, etc. In these products, highly accurate monitoring of the power supply voltage is an important point in terms of system operation and data backup. While maintaining the voltage detection precision of similar voltage detection devices so far, the MN1380 Series of devices consumes 1/10 the current. In addition, users can choose from one of three output formats: CMOS output, N-channel open drain and inverted CMOS output.

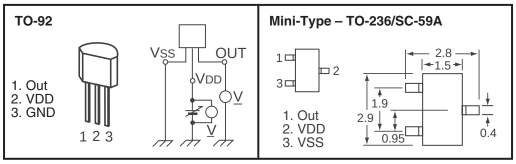
TO-92

Mini-Type – TO-236/SC-59A

Item	Symbol	Rating	Unit
Drain Supply Voltage	VDD	7.0	V
Output Voltage	VO	-0.3 ~ VDD + 0.3	V
Operating Ambient Temperature	Ta	-20 ~ 70	C
Storage Temperature	Tstg	-55 ~ 125	C
Detection Voltage Hysteresis Max		300	MV

Output Type	Detection Voltage at Drain Supply (Trigger V) Min.	Max.	Reset Time (µs) tOH	tOL	Digi-Key Part No.	*RoHS Compliant* Digi-Key Part No.	Pricing 1	10	100
TO-92									
CMOS	2.0	2.2	3.0	250	—	MN1381SC-ND	1.02	8.48	67.87
	2.2	2.4	3.0	250	—	MN1381SE-ND	1.02	8.48	67.87
	2.4	2.6	3.0	115	—	MN1381SG-ND	1.02	8.48	67.87
	2.6	2.9	3.0	115	MN1381-J-ND	MN1381SJ-ND	1.02	8.48	67.87
	3.0	3.3	2.0	15	—	MN1381SL-ND	1.02	8.48	67.87
	3.4	3.7	2.0	15	—	MN1381SN-ND	1.02	8.48	67.87
	3.8	4.1	2.0	15	—	MN1381SQ-ND	1.02	8.48	67.87
	4.2	4.5	2.0	15	—	MN1381SS-ND	1.02	8.48	67.87
	4.6	4.9	—	—	—	MN1381SUX-ND	1.02	8.48	67.87
N-Channel Open Drain	2.0	2.2	2.5	160	—	MN13811S-C-ND	1.02	8.48	67.87
	2.2	2.4	2.5	160	MN13811-E-ND	MN13811SE-ND	1.02	8.48	67.87
	2.4	2.6	3.0	100	MN13811-G-ND	MN13811SG-ND	1.02	8.48	67.87
	3.0	3.3	4.0	35	MN13811-L-ND	MN13811SL-ND	1.02	8.48	67.87
	3.4	3.7	4.0	35	—	MN13811SN-ND	1.02	8.48	67.87
	3.8	4.1	4.0	35	MN13811-Q-ND	MN13811SQ-ND	1.02	8.48	67.87
	4.2	4.5	4.0	35	—	MN13811SS-ND	1.02	8.48	67.87
	4.6	4.9	—	—	—	MN13811SUX-ND	1.02	8.48	67.87
CMOS Inverted	2.0	2.2	230	3.0	MN13812-C-ND	MN13812SC-ND	1.02	8.48	67.87
	2.2	2.4	230	3.0	MN13812-E-ND	MN13812SE-ND	1.02	8.48	67.87
	2.4	2.6	100	3.0	MN13812-G-ND	MN13812SG-ND	1.02	8.48	67.87
	2.6	2.9	100	3.0	—	MN13812SJ-ND	1.02	8.48	67.87
	3.0	3.3	30	3.0	—	MN13812SL-ND	1.02	8.48	67.87
	3.4	3.7	30	3.0	MN13812-N-ND	MN13812SN-ND	1.02	8.48	67.87
	3.8	4.1	30	3.0	MN13812-Q-ND	MN13812SQ-ND	1.02	8.48	67.87
	4.2	4.5	30	3.0	MN13812-S-ND	MN13812SS-ND	1.02	8.48	67.87
	4.6	4.9	30	3.0	MN13812-U-ND	—	1.02	8.48	67.87

Output Type	Detection Voltage at Drain Supply (Trigger V) Min.	Max.	Reset Time (µs) tOH	tOL	Digi-Key Part No.	*RoHS Compliant* Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	*RoHS Compliant* Digi-Key Part No.	Tape and Reel Pricing 3,000
MINI-TYPE												
CMOS	2.0	2.2	3.0	250.0	MN1382CPCT-ND	MN1382SCPCT-ND	1.02	8.48	67.87	MN1382CPTR-ND	MN1382SCPTR-ND	441.00/M
	2.1	2.3	3.0	250.0	MN1382DPCT-ND	MN1382SDPCT-ND	1.02	8.48	67.87	—	MN1382SDPTR-ND	441.00/M
	2.2	2.4	3.0	250.0	MN1382EPCT-ND	MN1382SEPCT-ND	1.02	8.48	67.87	MN1382EPTR-ND	MN1382SEPTR-ND	441.00/M
	2.3	2.5	3.0	250.0	MN1382FPCT-ND	MN1382SFPCT-ND	1.02	8.48	67.87	—	MN1382SFPTR-ND	441.00/M
	2.4	2.6	3.0	115.0	MN1382GPCT-ND	MN1382SGPCT-ND	1.02	8.48	67.87	—	MN1382SGPTR-ND	441.00/M
	2.5	2.7	3.0	115.0	—	MN1382SHPCT-ND	1.02	8.48	67.87	—	MN1382SHPTR-ND	441.00/M
	2.6	2.9	3.0	115.0	—	MN1382SJPCT-ND	1.02	8.48	67.87	—	MN1382SJPTR-ND	441.00/M
	2.8	3.1	3.0	115.0	—	MN1382SKPCT-ND	1.02	8.48	67.87	—	MN1382SKPTR-ND	441.00/M
	3.0	3.3	2.0	15.0	MN1382LPCT-ND	MN1382SLPCT-ND	1.02	8.48	67.87	MN1382LPTR-ND	MN1382SLPTR-ND	441.00/M
	3.2	3.5	2.0	15.0	MN1382MPCT-ND	MN1382SMPCT-ND	1.02	8.48	67.87	MN1382MPTR-ND	MN1382SMPTR-ND	441.00/M
	3.4	3.7	2.0	15.0	MN1382NPCT-ND	MN1382SNPCT-ND	1.02	8.48	67.87	MN1382NPTR-ND	MN1382SNPTR-ND	441.00/M
	3.6	3.9	2.0	15.0	MN1382PPCT-ND	—	1.02	8.48	67.87	MN1382PPTR-ND	—	441.00/M
	3.8	4.1	2.0	15.0	MN1382QPCT-ND	MN1382SQPCT-ND	1.02	8.48	67.87	—	MN1382SQPTR-ND	441.00/M
	4.0	4.3	2.0	15.0	—	MN1382SRPCT-ND	1.02	8.48	67.87	—	MN1382SRPTR-ND	441.00/M
	4.2	4.5	2.0	15.0	—	MN1382SSPCT-ND	1.02	8.48	67.87	—	MN1382SSPTR-ND	441.00/M
	4.4	4.7	2.0	15.0	MN1382TPCT-ND	MN1382STPCT-ND	1.02	8.48	67.87	—	MN1382STPTR-ND	441.00/M
	4.6	4.9	—	—	—	MN1382SUPCT-ND	1.02	8.48	67.87	—	MN1382SUPTR-ND	441.00/M
N-Channel Open Drain	2.0	2.2	2.5	160.0	MN13821CPCT-ND	MN13821SCPCT-ND	1.02	8.48	67.87	MN13821CPTR-ND	MN13821SCPTR-ND	441.00/M
	2.1	2.3	2.5	160.0	MN13821DPCT-ND	MN13821SDPCT-ND	1.02	8.48	67.87	—	MN13821SDPTR-ND	441.00/M
	2.2	2.4	2.5	160.0	—	MN13821SEPCT-ND	1.02	8.48	67.87	—	MN13821SEPTR-ND	441.00/M
	2.3	2.5	2.5	160.0	—	MN13821SFPCT-ND	1.02	8.48	67.87	—	MN13821SFPTR-ND	441.00/M
	2.4	2.6	3.0	100.0	—	MN13821SGPCT-ND	1.02	8.48	67.87	—	MN13821SGPTR-ND	441.00/M
	2.5	2.7	3.0	100.0	—	MN13821SHPCT-ND	1.02	8.48	67.87	—	MN13821SHPTR-ND	441.00/M
	2.6	2.9	3.0	100.0	—	MN13821SJPCT-ND	1.02	8.48	67.87	—	MN13821SJPTR-ND	441.00/M
	2.8	3.1	3.0	100.0	MN13821KPCT-ND	MN13821SKPCT-ND	1.02	8.48	67.87	MN13821KPTR-ND	MN13821SKPTR-ND	441.00/M
	3.0	3.3	4.0	35.0	MN13821LPCT-ND	MN13821SLPCT-ND	1.02	8.48	67.87	MN13821LPTR-ND	MN13821SLPTR-ND	441.00/M
	3.2	3.5	4.0	35.0	—	MN13821SMPCT-ND	1.02	8.48	67.87	—	MN13821SMPTR-ND	441.00/M
	3.4	3.7	4.0	35.0	MN13821NPCT-ND	MN13821SNPCT-ND	1.02	8.48	67.87	MN13821NPTR-ND	MN13821SNPTR-ND	441.00/M
	3.6	3.9	4.0	35.0	MN13821PPCT-ND	MN13821SPPCT-ND	1.02	8.48	67.87	—	MN13821SPPTR-ND	441.00/M
	3.8	4.1	4.0	35.0	—	MN13821SQPCT-ND	1.02	8.48	67.87	—	MN13821SQPTR-ND	441.00/M
	4.0	4.3	4.0	35.0	—	MN13821SRPCT-ND	1.02	8.48	67.87	—	MN13821SRPTR-ND	441.00/M
	4.2	4.5	4.0	35.0	MN13821SPCT-ND	MN13821SSPCT-ND	1.02	8.48	67.87	MN13821SPTR-ND	MN13821SSPTR-ND	441.00/M
	4.4	4.7	4.0	35.0	—	MN13821STPCT-ND	1.02	8.48	67.87	—	MN13821STPTR-ND	441.00/M
	4.6	4.9	—	—	MN13821UPCT-ND	MN13821SUPCT-ND	1.02	8.48	67.87	—	MN13821SUPTR-ND	441.00/M
CMOS Inverted	2.0	2.2	230.0	3.0	MN13822CPCT-ND	MN13822SCPCT-ND	1.02	8.48	67.87	—	MN13822SCPTR-ND	441.00/M
	2.1	2.3	230.0	3.0	MN13822DPCT-ND	MN13822SDPCT-ND	1.02	8.48	67.87	MN13822DPTR-ND	MN13822SDPTR-ND	441.00/M
	2.2	2.4	230.0	3.0	MN13822EPCT-ND	MN13822SEPCT-ND	1.02	8.48	67.87	—	MN13822SEPTR-ND	441.00/M
	2.3	2.5	230.0	3.0	MN13822FPCT-ND	MN13822SFPCT-ND	1.02	8.48	67.87	MN13822FPTR-ND	MN13822SFPTR-ND	441.00/M
	2.4	2.6	100.0	3.0	MN13822GPCT-ND	MN13822SGPCT-ND	1.02	8.48	67.87	MN13822GPTR-ND	MN13822SGPTR-ND	441.00/M
	2.5	2.7	100.0	3.0	MN13822HPCT-ND	MN13822SHPCT-ND	1.02	8.48	67.87	MN13822HPTR-ND	MN13822SHPTR-ND	441.00/M
	2.6	2.9	100.0	3.0	MN13822JPCT-ND	MN13822SJPCT-ND	1.02	8.48	67.87	MN13822JPTR-ND	MN13822SJPTR-ND	441.00/M
	2.8	3.1	100.0	3.0	MN13822KPCT-ND	MN13822SKPCT-ND	1.02	8.48	67.87	—	MN13822SKPTR-ND	441.00/M
	3.0	3.3	30.0	3.0	MN13822LPCT-ND	MN13822SLPCT-ND	1.02	8.48	67.87	MN13822LPTR-ND	MN13822SLPTR-ND	441.00/M
	3.2	3.5	30.0	3.0	MN13822MPCT-ND	MN13822SMPCT-ND	1.02	8.48	67.87	MN13822MPTR-ND	MN13822SMPTR-ND	441.00/M
	3.4	3.7	30.0	3.0	MN13822NPCT-ND	MN13822SNPCT-ND	1.02	8.48	67.87	MN13822NPTR-ND	MN13822SNPTR-ND	441.00/M
	3.6	3.9	30.0	3.0	MN13822PPCT-ND	MN13822SPPCT-ND	1.02	8.48	67.87	MN13822PPTR-ND	MN13822SPPTR-ND	441.00/M
	3.8	4.1	30.0	3.0	MN13822QPCT-ND	MN13822SQPCT-ND	1.02	8.48	67.87	MN13822QPTR-ND	MN13822SQPTR-ND	441.00/M
	4.0	4.3	30.0	3.0	MN13822RPCT-ND	MN13822SRPCT-ND	1.02	8.48	67.87	MN13822RPTR-ND	MN13822SRPTR-ND	441.00/M
	4.2	4.5	30.0	3.0	MN13822SPCT-ND	MN13822SSPCT-ND	1.02	8.48	67.87	MN13822SPTR-ND	MN13822SSPTR-ND	441.00/M
	4.4	4.7	30.0	3.0	MN13822TPCT-ND	MN13822STPCT-ND	1.02	8.48	67.87	MN13822TPTR-ND	MN13822STPTR-ND	441.00/M
	4.6	4.9	—	—	MN13822UPCT-ND	MN13822SUPCT-ND	1.02	8.48	67.87	MN13822UPTR-ND	MN13822SUPTR-ND	441.00/M

TOKO Dielectric Filters

Type 4DFA Dim in mm

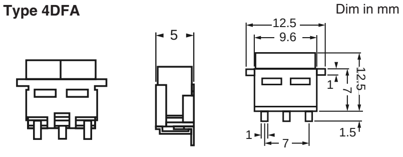

Type 4DFB

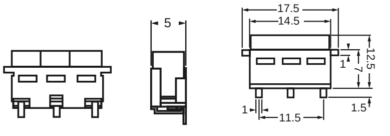

Applications: • Cellular - AMPS/TDMA/CDMA • RF Data • Cordless Phone • ISM • Pager • SMR • GPS • Ardis **Temperature Range:** -25°C ~ 85°C

Center Freq. MHz	Bandwidth (fo ± MHz)	I.L (dB max.)	Selectivity dB min. @ MHz	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	1,000	Toko Part No.
Type 4DFA (2 Pole SMD Type)											
902.5	±12.5	2.5	18 (*ƒ*o ± 77.5)	TKS2602CT-ND	24.06	161.60	971.00	TKS2602TR-ND	2780.00	3510.00	4DFA-902E-10
947.5	±12.5	2.5	18 (*ƒ*o ± 77.5)	TKS2603CT-ND	24.06	161.60	971.00	TKS2603TR-ND	2780.00	3510.00	4DFA-947E-10
904.0	±1.0	3.8	21,30 (*ƒ*o +21.5, +44)	TKS2604CT-ND	24.06	161.60	971.00	TKS2604TR-ND	2780.00	3510.00	4DFA-904A-10
926.5	±1.0	3.8	21,30 (*ƒ*o -21.5, -44)	TKS2605CT-ND	12.48	98.80	722.80	—	—	—	4DFA-926A-11
1575.4	±5.0	1.2: 0.7 typ	17,20 (*ƒ*o +140, -140)	TKS2609CT-ND	24.06	161.60	971.00	TKS2609TR-ND	2780.00	3510.00	4DFA-1575B-12
2450.0	±50.0	2.0	22 (*ƒ*o -280)	TKS2610CT-ND	24.06	161.60	971.00	—	—	—	4DFA-2450T-10
Type 4DFB (3 Pole SMD Type)											
860.5	±10.0	2.5	15,35(*ƒ*o ±35,80)	TKS2612CT-ND	36.16	242.80	1459.00	TKS2612TR-ND	4180.00	5280.00	4DFB-860D-10
915.0	±13.0	2.7	12(*ƒ*o ±32.5)	TKS2617CT-ND	36.16	242.80	1459.00	—	—	—	4DFB-915E-10

Dielectric Antenna Element

The DAC Series is a miniature dielectric antenna element for 2.4 GHz wireless LAN systems. This antenna has vertical polarization characteristics. The proprietary ceramic dielectric material provides excellent stability and sensitivity. It is mountable in Type II extended PCMCIA cards.

FEATURES:
• Vertical polarization reception • Low profile (6.5mm maximum) • Omni-directional in azimuth • Low interference design • Central feeding point terminal • Wide bandwidth • Light weight

SPECIFICATIONS:
• Center Frequency: 2450 MHz • Receiving Bandwidth: ±50 MHz minimum • Impedance: 50Ω • Peak Gain: 2.15 dBi (0dBi typical) maximum • Operating Temperature: -10°C ~ 60°C • Storage Temperature: -20°C ~ 85°C • Weight: 4 grams

TK5151-ND (DAC2450CT1T) **$9.14**

Dim in mm

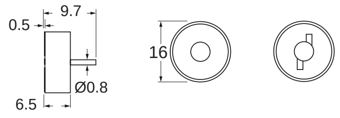

Low Dropout Voltage Regulators

Series TK112xxC/TK113xxCM

Specifications: **TK112xxC** • Peak output current is 480mA (10% down point) • Built-in on/off control (0.1µA max. standby current) High On • Supply Voltage: -0.4V ~ 16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 6mV • Maximum Output Current: 480mA • Quiescent Current: 65µA • Lead free **TK113xxC** • Active Low (Reference: Vin) On/Off Control • Output Current: 300mA (peak 480mA) • Supply Voltage: -0.4V ~16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 6.0mV • Maximum Output Current: 480mA • Quiescent Current: 1.8mA • Lead free

Description: The **TK112xxC** is an integrated circuit with a silicon monolithic bipolar structure. The regulator is of the low saturation voltage output type with very little quiescent current (65µA). The PNP power transistor is built-in. The I/O voltage difference is 0.17V (typ.) when a current of 200mA is supplied to the system. Because of the low voltage drop, the voltage source can be effectively used; this makes it very suitable for battery powered equipment. The on/off function is built into the IC. The over current sensor circuit and the reverse-bias protection circuit are built-in. It is a very rugged design because the ESD protection is high. Therefore, the TK112xxC can be used with confidence. The **TK113xxCM** series of low dropout (LDO) voltage regulators are designed for use in battery powered equipment, portable communication devices or RF modules requiring a thermal enhanced SOT23L-6 package. The maximum continuous current power rating is 380mA.

Series TK112xxC	Series TK113xxCM
1. On/Off	1. Vcont
2. Gnd	2. Gnd
3. Np (Vref)	3. Np (Vref)
4. Vout	4. Vout
5. Gnd	5. Gnd
6. Vin	6. Vin

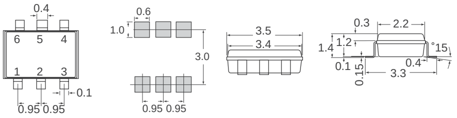

Output Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,300	Toko Part No.
2.8	TKS11228CT-ND	1.80	1.51	1.38	TKS11228TR-ND	705.00/M	TK11228CMCL-G
3.0	TKS11230CT-ND	1.80	1.51	1.38	TKS11230TR-ND	705.00/M	TK11230CMCL-G
3.3	TKS11233CT-ND	1.80	1.51	1.38	TKS11233TR-ND	705.00/M	TK11233CMCL-G
5.0	TKS11250CT-ND	1.80	1.51	1.38	TKS11250TR-ND	705.00/M	TK11250CMCL-G
3.0	TKS11330CT-ND	2.60	2.18	1.99	TKS11330TR-ND	1020.00/M	TK11330CMCL-G
3.3	TKS11333CT-ND	2.60	2.18	1.99	TKS11333TR-ND	1020.00/M	TK11333CMCL-G
5.0	TKS11350CT-ND	2.60	2.18	1.99	TKS11350TR-ND	1020.00/M	TK11350CMCL-G

Series TK111xxC/TK717xx

Specifications: **TK111xxC** • Peak output current is 320mA (0.3V down point) • Built-in on/off control (0.1µA max. standby current) High on • Supply Voltage: -0.4V ~16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 5mV • Maximum Output Current: 320mA • Quiescent Current: 1.0mA • Lead free **TK717xx** • Built-in PNP power transistor. Very small Dropout Voltage (Vdrop=163mV at Iout=200mA) • Supply Voltage: -0.4V ~ 16V • Operating Temperature: -30°C ~ 80°C • Line Regulation: 5mV • Maximum Output Current: 370mA • Quiescent Current: 72µA • Lead free

Description: **TK111xxC** is an integrated circuit of the silicon monolithic bipolar structure, and the regulator of low saturation output type with very little quiescent current (63µA). The PNP power transistor is built-in. The I/O voltage difference when the current of 200mA (typical) is supplied to the system is 0.2V. The voltage source can be effectively used therefore, it is the best for the battery use set. The on/off function is built into the IC. The current in standing-by mode becomes slight (pA level). 1.5-10.0V is arranged to the output voltage in 0.1V step. The output voltage is trimmed in high accuracy. The **TK717xx** is an integrated circuit with a silicon monolithic bipolar structure. The regulator is of the low saturation voltage output type with very little quiescent current. The PNP power transistor is built-in. The I/O voltage difference is 163mV (typ.) when a current of 200mA is supplied to the system. Because of the low voltage drop, the voltage source can be effectively used; this makes it very suitable for battery powered equipment. The on/off function is built into the IC. The current during standby mode becomes very small (pA level). In addition, the output short-circuit function works at off times. It is a unique characteristic by which the residual charge of the output side capacitor is rapidly discharged.

Series TK111xxC	Series TK717xx
1. On/Off	1. Vin
2. Gnd	2. Gnd
3. Np (Vref)	3. On/Off
4. Vout	4. Np (Vref)
5. Vin	5. Vout

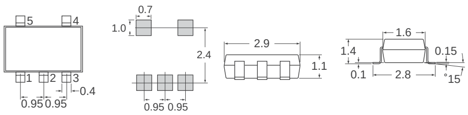

Output Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Toko Part No.
2.5	TKS11125CT-ND	1.46	1.23	1.13	TKS11125TR-ND	575.00/M	TK11125CSCL-G
3.0	TKS11130CT-ND	1.46	1.23	1.13	TKS11130TR-ND	575.00/M	TK11130CSCL-G
3.3	TKS11133CT-ND	1.46	1.23	1.13	TKS11133TR-ND	575.00/M	TK11133CSCL-G
5.0	TKS11150CT-ND	1.46	1.23	1.13	TKS11150TR-ND	575.00/M	TK11150CSCL-G
2.8	TKS71728CT-ND	1.53	1.28	1.17	TKS71728TR-ND	600.00/M	TK71728SCL-G
3.0	TKS71730CT-ND	1.53	1.28	1.17	TKS71730TR-ND	600.00/M	TK71730SCL-G
3.3	TKS71733CT-ND	1.53	1.28	1.17	TKS71733TR-ND	600.00/M	TK71733SCL-G

Series TK715xxA

Specifications: • Reverse bias voltage protection • Wide operating voltage range: 1.8V-18V • Supply Voltage: -0.4V ~ 19V • Temperature Range: -30°C ~ 80°C • Line regulation: 3mV • Output Current: 155mA • Quiescent Current: 300µA • Lead free

Description: TK715xxA is a low drop out regulator with very few quiescent currents (25µA). An internal PNP pass transistor is applied to achieve a low dropout voltage of 105mV (typical) at 50mA load current. Because the output current 100mA (typical) can be supplied to the output voltage difference, 0.2V time, the voltage source can be effectively used. Therefore, it is the best for the battery use set. The output voltage is trimmed in high accuracy. The over current sensor circuit and the reverse-bias protection circuit are built-in.

1. Vout
2. Vin
3. Gnd

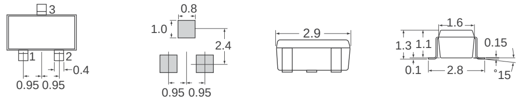

Output Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Toko Part No.
3.0	TKS71530CT-ND	1.19	1.00	.91	TK71530ASCL-G

M-Systems
Flash Disk Pioneers

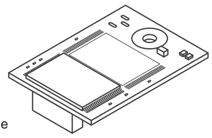

uDiskOnChip

uDiskOnChip (uDOC) merges M-Systems' expertise in two worlds:

The USB 2.0 high-speed interface and DiskOnChip industry-standard flash for embedded systems.

The result is industry's highest performance, uncompromising reliability and built-in security to encrypt data and code.

Description	Digi-Key Part No.	Price Each	M-Systems Part No.
uDOC to USB Adapter	585-1144-ND	5.00	uDOC-2X5-ADPT

Capacity	Operating Temperature	Digi-Key Part No.	Price Each	M-Systems Part No.
32MB	0°C ~ 75°C	585-1146-ND◊	18.13	MD1665-D32-P
	-40°C ~ 85°C	585-1145-ND◊	21.75	MD1665-D32-X-P
64MB	0°C ~ 75°C	585-1096-ND	19.50	MD1665-D64
	-40°C ~ 85°C	585-1097-ND	23.40	MD1665-D64-X
128MB	0°C ~ 75°C	585-1087-ND	23.63	MD1665-D128
	-40°C ~ 85°C	585-1088-ND	28.35	MD1665-D128-X
256MB	0°C ~ 75°C	585-1090-ND	36.38	MD1665-D256
	-40°C ~ 85°C	585-1091-ND	43.65	MD1665-D256-X
512MB	0°C ~ 75°C	585-1094-ND	59.63	MD1665-D512
	-40°C ~ 85°C	585-1095-ND	71.55	MD1665-D512-X
1GB	0°C ~ 75°C	585-1085-ND	101.63	MD1665-D1024
	-40°C ~ 85°C	585-1086-ND	121.96	MD1665-D1024-X
2GB	0°C ~ 75°C	585-1089-ND	177.63	MD1665-D2048

◊ ***RoHS Compliant***

iDiskOnChip

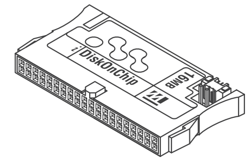

iDiskOnChip (iDOC) delivers extremely fast and easy integration, along with high performance and reliability. It offers built-in block device emulation without any software drivers. It can be used in any system with an IDE bus and with any operating system

iDiskOnChip continues the tradition with built-in error detection and correction code that corrects data errors on-the-fly.

Specifications: Operating Temperature: 0°C ~ 70° C

Capacity	IDE Connector	Alignment	Digi-Key Part No.	Price Each	M-Systems Part No.
16MB	40-Pin	Horizontal, Left Oriented	585-1053-ND	15.56	MD1160-D16
	40-Pin	Horizontal, Right Oriented	585-1070-ND	15.56	MD1170-D16
	44-Pin	Horizontal, Left Oriented	585-1062-ND	15.56	MD1161-D16
	44-Pin	Horizontal, Right Oriented	585-1078-ND	15.56	MD1171-D16
32MB	40-Pin	Vertical	585-1039-ND	16.13	MD1150-D32
	44-Pin	Vertical	585-1048-ND	16.38	MD1151-D32
	40-Pin	Horizontal, Left Oriented	585-1056-ND	14.63	MD1160-D32
	40-Pin	Horizontal, Right Oriented	585-1073-ND	14.63	MD1170-D32
	44-Pin	Horizontal, Left Oriented	585-1065-ND	14.38	MD1161-D32
	44-Pin	Horizontal, Right Oriented	585-1081-ND	14.38	MD1171-D32
64MB	40-Pin	Vertical	585-1042-ND	17.63	MD1150-D64
	44-Pin	Vertical	585-1051-ND	17.88	MD1151-D64
	40-Pin	Horizontal, Left Oriented	585-1059-ND	16.00	MD1160-D64
	40-Pin	Horizontal, Right Oriented	585-1076-ND	16.00	MD1170-D64
	44-Pin	Horizontal, Left Oriented	585-10 68-ND	15.75	MD1161-D64
	44-Pin	Horizontal, Right Oriented	585-1084-ND	15.75	MD1171-D64
128MB	40-Pin	Vertical	585-1034-ND	21.38	MD1150-D128
	44-Pin	Vertical	585-1044-ND	21.63	MD1151-D128
	40-Pin	Horizontal, Left Oriented	585-1052-ND	19.75	MD1160-D128
	40-Pin	Horizontal, Right Oriented	585-1069-ND	19.75	MD1170-D128
	44-Pin	Horizontal, Left Oriented	585-1060-ND	19.50	MD1161-D128
	44-Pin	Horizontal, Right Oriented	585-1077-ND	19.50	MD1171-D128

Capacity	IDE Connector	Alignment	Digi-Key Part No.	Price Each	M-Systems Part No.
192MB	40-Pin	Vertical	585-1037-ND	45.96	MD1150-D192
	44-Pin	Vertical	585-1046-ND	45.96	MD1151-D192
	40-Pin	Horizontal, Left Oriented	585-1054-ND	45.96	MD1160-D192
	40-Pin	Horizontal, Right Oriented	585-1071-ND	45.96	MD1170-D192
	44-Pin	Horizontal, Left Oriented	585-1063-ND	45.96	MD1161-D192
	44-Pin	Horizontal, Right Oriented	585-1079-ND	45.96	MD1171-D192
256MB	40-Pin	Vertical	585-1038-ND	32.75	MD1150-D256
	44-Pin	Vertical	585-1047-ND	33.00	MD1151-D256
	40-Pin	Horizontal, Left Oriented	585-1055-ND	31.13	MD1160-D256
	40-Pin	Horizontal, Right Oriented	585-1072-ND	31.13	MD1170-D256
	44-Pin	Horizontal, Left Oriented	585-1064-ND	31.00	MD1161-D256
	44-Pin	Horizontal, Right Oriented	585-1080-ND	31.00	MD1171-D256
384MB	40-Pin	Vertical	585-1040-ND	44.13	MD1150-D384
	4-Pin	Vertical	585-1049-ND	44.38	MD1151-D384
	40-Pin	Horizontal, Left Oriented	585-1057-ND	42.63	MD1160-D384
	40-Pin	Horizontal, Right Oriented	585-1074-ND	42.63	MD1170-D384
	44-Pin	Horizontal, Left Oriented	585-1066-ND	42.38	MD1161-D384
	44-Pin	Horizontal, Right Oriented	585-1082-ND	42.38	MD1171-D384
512MB	40-Pin	Vertical	585-1041-ND	53.88	MD1150-D512
	44-Pin	Vertical	585-1050-ND	53.88	MD1151-D512
	40-Pin	Horizontal, Left Oriented	585-1058-ND	52.13	MD1160-D512
	40-Pin	Horizontal, Right Oriented	585-1075-ND	52.13	MD1170-D512
	44-Pin	Horizontal, Left Oriented	585-1067-ND	51.88	MD1161-D512
	44-Pin	Horizontal, Right Oriented	585-1083-ND	51.88	MD1171-D512
768MB	40-Pin	Vertical	585-1043-ND	75.75	MD1150-D768
1GB	40-Pin	Vertical	585-1033-ND	97.63	MD1150-D1024
1.5GB	40-Pin	Vertical	585-1035-ND	141.38	MD1150-D1536
	44-Pin	Horizontal, Left Oriented	585-1061-ND	139.38	MD1161-D1536

Description	Digi-Key Part No.	Price Each	M-Systems Part No.
iDOC Power Cable	585-1006-ND	.80	DOC-IDE40-CABLE

IDE/SATA/SCSI Fast Flash Disks

Fast Flash Disk (FFD) products provide rugged, high-performance and highly reliable data storage. They withstand extreme temperatures, shocks and vibrations, even in harsh conditions, without compromising on data integrity.

FFD solid-state flash drives are a drop-in replacement for IDE, SATA and SCSI mechanical disks, eliminating seek time, latency and potential failures inherent in conventional rotating disks.

FFD are available in commercial, enhanced and extended operating temperatures.

Series	Capacity	Digi-Key Part No.	Price Each	M-Systems Part No.
2.5" ULTRA ATA	1GB	585-1013-ND	748.00	FFD-25-UATA-1024-A
	2GB	585-1016-ND	872.96	FFD-25-UATA-2048-A
	4GB	585-1017-ND	1096.03	FFD-25-UATA-4096-A
	8GB	585-1018-ND	1543.96	FFD-25-UATA-8192-A
	12GB	585-1014-ND	2746.89	FFD-25-UATA-12288-B
	16GB	585-1015-ND	3028.97	FFD-25-UATA-16384-B

Series	Capacity	Digi-Key Part No.	Price Each	M-Systems Part No.
2.5" SERIAL ATA	1GB	585-1007-ND	748.00	FFD-25-SATA-1-A
	2GB	585-1010-ND	872.96	FFD-25-SATA-2-A
	4GB	585-1011-ND	1096.03	FFD-25-SATA-4-A
	8GB	585-1012-ND	1543.96	FFD-25-SATA-8-A
	12GB	585-1008-ND	2746.89	FFD-25-SATA-12-B
	16GB	585-1009-ND	3028.97	FFD-25-SATA-16-B
IDE 4000 2.5"	128MB	585-1021-ND	62.00	IDE-4K-25-128
	256MB	585-1023-ND	73.00	IDE-4K-25-256
	384MB	585-1027-ND	87.00	IDE-4K-25-384
	512MB	585-1029-ND	92.00	IDE-4K-25-512
	640MB	585-1030-ND	112.00	IDE-4K-25-640
	768MB	585-1031-ND	118.00	IDE-4K-25-768
	1GB	585-1020-ND	133.00	IDE-4K-25-1024
	2GB	585-1022-ND	215.01	IDE-4K-25-2048
	2.5GB	585-1024-ND	259.01	IDE-4K-25-2560
	3GB	585-1025-ND	300.01	IDE-4K-25-3072
	3.5GB	585-1026-ND	341.01	IDE-4K-25-3584
	4GB	585-1028-ND	382.01	IDE-4K-25-4096
	8GB	585-1032-ND	712.02	IDE-4K-25-8192
ULTRA320 SCSI	4GB	585-1019-ND	2134.98	FFD35-U3S-4-T-P80

WINTEC
INDUSTRIES

CompactFlash™ Memory Card

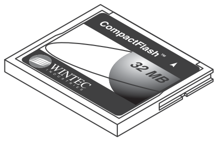

Memory Size (MB)	Digi-Key Part No.	Price Each 1	5	10	Wintec Part No.
32	385-1016-ND	24.00	22.40	20.80	W7B6032M1XG-W
64	385-1017-ND	32.40	30.24	28.08	W7B6064M1XG-W
128	385-1018-ND	44.25	41.30	38.35	W7B6128M1XG-W1

Memory Modules Unbuffered

Memory Type	Package Size	Speed (MHz)	Memory Size Mega Bytes	Config. Mega Bits	Features	Digi-Key Part No.	Price Each* 1	5	10	Wintec Part No.
SDRAM	168 DIMM	100	64	8x64	Non-ECC	385-1002-ND	34.10	31.83	29.55	W9Q308647PA-222
			64	8x72	ECC	385-1003-ND	68.57	64.00	59.43	W9Q308727KD-222K
			64	8x72	ECC	385-1019-ND	68.57	64.00	59.43	W9Q308727KD-222
			128	16x64	Non-ECC	385-1004-ND	68.52	63.96	59.39	W9Q316647LB-222
			128	16x72	ECC	385-1005-ND	126.44	118.01	109.58	W9Q316727KD-222K
			256	32x64	Non-ECC	385-1006-ND	134.25	125.30	116.35	W9Q332647LB-222
SDRAM	144 SODIMM	100	64	8x64	Non-ECC	385-1007-ND	34.10	31.83	29.55	W9R308647PA-222
			128	16x64	Non-ECC	385-1008-ND	62.12	57.98	53.84	W9R316647LB-222
			256	32x64	Non-ECC	385-1009-ND	95.12	88.78	82.44	W9R332647HA-222
SDRAM	144 SODIMM	133	64	8x64	Non-ECC	385-1010-ND	33.33	31.11	28.89	W9V308647PA-333
			128	16x64	Non-ECC	385-1011-ND	67.01	62.54	58.08	W9V316647LA-333
			256	32x64	Non-ECC	385-1012-ND	97.50	91.00	84.50	W9V332647HA-333
SDRAM	168 DIMM	133	64	8x64	Non-ECC	385-1013-ND	33.33	31.11	28.89	W9D308647PA-333
			128	16x64	Non-ECC	385-1014-ND	68.52	63.96	59.39	W9D316647LC-333
			256	32x64	Non-ECC	385-1015-ND	128.52	119.96	111.39	W9D332647LA-333
DDR SDRAM	184 SODIMM	266	128	16x64	Non-ECC	385-1000-ND	75.00	70.00	65.00	W4E216646LA-7.5
			256	32x64	Non-ECC	385-1001-ND	137.70	128.52	119.34	W4E232646LA-7.5

*Please call *Digi-Key* for current pricing.

Micron Memory Modules

Density	Package Size	Configuration Mega Bits	Speed	Data Rate MT's	Digi-Key Part No.	Price Each			Micron Technology Part No.
						1	5	10	
DDR SDRAM									
256MB	184 DIMM Unbuffered	32M x 64	PC2700	333	557-1121-ND	68.88	64.13	61.75	MT8VDDT3264AG-335GB
	184 DIMM Unbuffered	32M x 64	PC2700	333	557-1180-ND◊ ***NEW!***	58.91	53.06	50.39	MT8VDDT3264AY-335G6
	184 DIMM Unbuffered	32M x 72	PC2700	333	557-1133-ND	53.32	52.66	47.81	MT9VDDT3272AG-335G4
	184 DIMM Registered	32M x 72	PC2700	333	557-1129-ND	82.19	73.88	71.14	MT9VDDF3272G-335G3
	184 DIMM Unbuffered	32M x 64	PC3200	400	557-1122-ND	68.88	64.13	61.75	MT8VDDT3264AG-40BGB
	184 DIMM Unbuffered	32M x 72	PC3200	400	557-1134-ND	53.32	52.66	47.81	MT9VDDT3272AG-40BG4
	184 DIMM Registered	32M x 72	PC3200	400	557-1130-ND	82.19	73.88	71.14	MT9VDDF3272G-40BG3
	200 SODIMM	32M x 64	PC2700	333	557-1123-ND	48.36	47.76	43.36	MT8VDDT3264HG-335G3
		32M x 72	PC2700	333	557-1135-ND	60.76	60.00	54.47	MT9VDDT3272HG-335G2
		32M x 64	PC3200	400	557-1124-ND	48.36	47.76	43.36	MT8VDDT3264HG-40BG3
		32M x 72	PC3200	400	557-1136-ND	54.55	53.88	48.91	MT9VDDT3272HG-40BG2
512MB	184 DIMM Unbuffered	64M x 64	PC2700	333	557-1125-ND	127.68	118.56	114.00	MT8VDDT6464AG-335DB
	184 DIMM Unbuffered	64M x 72	PC2700	333	557-1137-ND	100.66	91.15	88.14	MT9VDDT6472AG-335D1
	184 DIMM Unbuffered	64M x 72	PC2700	333	557-1177-ND◊ ***NEW!***	118.43	107.24	103.69	MT9VDDT6472AY-335F1
	184 DIMM Registered	64M x 72	PC2700	333	557-1131-ND	135.66	131.79	127.43	MT9VDDF6472G-335D3
	184 DIMM Unbuffered	64M x 72	PC3200	400	557-1138-ND	100.66	91.15	88.14	MT9VDDT6472AG-40BD1
	184 DIMM Unbuffered	64M x 72	PC3200	400	557-1178-ND◊ ***NEW!***	118.43	107.24	103.69	MT9VDDT6472AY-40BF1
	184 DIMM Registered	64M x 72	PC3200	400	557-1132-ND	143.57	133.32	128.19	MT9VDDF6472G-40BD3
	200 SODIMM	64M x 64	PC2700	333	557-1127-ND	89.76	81.28	77.69	MT8VDDT6464HG-335D1
		64M x 72	PC2700	333	557-1139-ND	100.66	91.15	88.14	MT9VDDT6472HG-335D2
		64M x 64	PC3200	400	557-1128-ND	89.76	81.28	77.69	MT8VDDT6464HG-40BD1
		64M x 72	PC3200	400	557-1140-ND	100.66	91.15	88.14	MT9VDDT6472HG-40BD2
1GB	184 DIMM Unbuffered	128M x 64	PC2700	333	557-1111-ND	243.68	225.63	221.12	MT16VDDT12864AG-335DB
	184 DIMM Unbuffered	128M x 72	PC2700	333	557-1117-ND	187.33	172.03	160.26	MT18VDDT12872AG-335D1
	184 DIMM Registered	128M x 72	PC2700	333	557-1113-ND	272.54	252.35	247.31	MT18VDDF12872G-335D3
	184 DIMM Unbuffered	128M x 64	PC3200	400	557-1112-ND	256.50	237.50	232.75	MT16VDDT12864AG-40BDB
	184 DIMM Unbuffered	128M x 72	PC3200	400	557-1118-ND	187.33	172.03	160.26	MT18VDDT12872AG-40BD1
	184 DIMM Registered	128M x 72	PC3200	400	557-1114-ND	272.54	252.35	247.31	MT18VDDF12872G-40BD3
	200 SODIMM	128M x 64	PC2700	333	557-1109-ND	268.04	261.10	243.23	MT16VDDF12864HG-335D2
		128M x 64	PC3200	400	557-1110-ND	267.98	248.13	243.17	MT16VDDF12864HG-40BD2
		128M x 72	PC2700	333	557-1115-ND	248.55	242.11	225.54	MT18VDDF12872HG-335D1
		128M x 72	PC2700	333	557-1173-ND◊ ***NEW!***	310.17	276.60	267.07	MT18VDDF12872HY-335F1
		128M x 72	PC3200	400	557-1116-ND	292.41	270.75	265.34	MT18VDDF12872HG-40BD1
2GB	184 DIMM Registered	256M x 72	PC2700	333	557-1119-ND	587.86	553.95	542.64	MT36VDDF25672G-335D2
			PC3200	400	557-1120-ND	617.50	581.88	570.00	MT36VDDF25672G-40BD2
DDR2 SDRAM – RoHS Compliant									
512MB	200 SODIMM	64M x 64	PC2-4200	533	557-1199-ND ***NEW!***	85.61	77.52	74.10	MT8HTF6464HDY-53EB3
	240 DIMM Unbuffered	64M x 64	PC2-4200	533	557-1141-ND	155.61	144.50	138.94	MT16HTF6464AY-53EB2
1GB	240 DIMM Registered	128M x 72	PC2-4200	533	557-1143-ND	447.53	414.38	406.09	MT18HTF12872Y-53EA2

◊ ***RoHS Compliant***

ATMEL DataFlash® Card

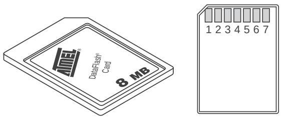

2.7V only SPI Compatible serial interface DataFlash® Cards. These 7-pin cards are form factor compatible to the MultiMedia Card standard leveraging on a wide range of low cost connectors that are commercially available. The DataFlash® Card is pinout compatible to the SPI version of the MMC card. The small form factor and simple interface make the DataFlash® Card ideal for a wide variety of data and program code-storage applications where a removable storage medium is required. Applications range from voice/audio, text or image storage to software applications, system upgrades and software patches. For detailed device specifications, please refer to the corresponding DataFlash® data sheets:
- AT45DCB002 reference AT45DB161B

Features: • MultiMedia Card (MMC) Form Factor • Single 2.7V to 3.6V Supply • Serial Peripheral Interface (SPI) Compatible • Clock Frequency: 20MHz max. • Low Power Dissipation: 4mA Active Read Current Typical; 2μA CMOS Standby Current Typical • Industrial Temperature Range

Megabyte	Digi-Key Part No.	Price Each			Atmel Part No.
		1	25	100	
2	AT45DCB002-ND	10.97	8.52	7.29	AT45DCB002

TOSHIBA Memory Cards

Description	Memory Size	Digi-Key Part No.	Price Each		
			1	25	100
Secure Digital (SD)	256MB	SDM256-ND	33.00	30.80	28.60
	256MB	SDM256LF-ND†	33.00	30.80	28.60
	512MB	SDM512-ND	81.00	75.60	70.20
	512MB	SDM512LF-ND†	33.00	30.80	28.60
	1GB	SDM01GLF-ND†	67.50	63.00	58.50
CompactFlash™	512MB	THNCF512MDG-ND	48.13	38.50	33.00
	512MB	THNCF512MPG-ND†	33.00	30.80	28.60
	1GB	THNCF1G0MDG-ND	159.38	148.75	138.13
	1GB	THNCF1G02PG-ND†	67.50	63.00	58.50

† ***RoHS Compliant***

Panasonic PC Cards

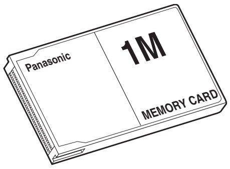

PCMCIA (Personal Computer Memory Card International Association) has jointly defined standard specifications for an IC memory card system interface. Now the IC memory card can be used as general-purpose media for exchanging data between systems.

SRAM Cards: 68 Pin JEIDA 4.2/PCMCIA Rel 2.1:
• Available with or without attribute memory • Tool-less replaceable battery (CR2025) • Contains a rechargeable sub-battery which provides data back-up for up to one hour during battery changes. • Type I Card

Flash Cards: 68 Pin Series 2 JEIDA 4.2/PCMCIA Rel 2.1:
• Uses 8Mbit memory chips • Type I Card

Description	Digi-Key Part No.	Price Each
SRAM Card PCMCIA/JEIDA Standard, 68 Pins		
64Kx8/32Kx16, 200ns, 150mA, 5 Year Backup	BN-064HSR-ND	39.68
128Kx8/64Kx16, 200ns, 150mA, 5 Year Backup	BN-128HSR-ND	45.23
256Kx8/128Kx16, 200ns, 150mA, 5 Year Backup	BN-256HSR-ND	57.15
512Kx8/256Kx16, 200ns, 150mA, 5 Year Backup	BN-512HSR-ND	81.18
1Mx8/512Kx16, 200ns, 150mA, 4 Year Backup	BN-01MHSR-ND	118.71
2Mx8/1Mx16, 200ns, 150mA, 2 Year Backup	BN-02MHSR-ND	193.50
4Mx8/2Mx16, 200ns, 150mA, 1 Year Backup	BN-04MHSR-ND	301.00
8Mx8/4Mx16, 200ns, 150mA, 6 Month Backup	BN-08MHSR-ND	666.40
SRAM Card with Attribute Memory PCMCIA/JEIDA Standard, 68 Pins		
64Kx8/32Kx16, 200ns, 150mA, 5 Year Backup	BN-064HSRC-ND	43.60
128Kx8/64Kx16, 200ns, 150mA, 5 Year Backup	BN-128HSRC-ND	48.69
256Kx8/128Kx16, 200ns, 150mA, 5 Year Backup	BN-256HSRC-ND	62.09
512Kx8/256Kx16, 200ns, 150mA, 5 Year Backup	BN-512HSRC-ND	84.74
1Mx8/512Kx16, 200ns, 150mA, 4 Year Backup	BN-01MHSRC-ND	120.18
2Mx8/1Mx16, 200ns, 150mA, 2 Year Backup	BN-02MHSRC-ND	186.20
4Mx8/2Mx16, 200ns, 150mA, 1 Year Backup	BN-04MHSRC-ND	306.60
8Mx8/2Mx16, 200ns, 150mA, 6 Month Backup	BN-08MHSRC-ND	686.00
Flash Card, PCMCIA/JEIDA Standard, 68 Pins (Series 2)		
10Mx8/5Mx16, 250ns, 150mA	BN-10MHF3CE-ND	366.80

IERC
A CTS COMPANY

Heat Sinks

International Electronic Research Corporation has helped pioneer the development of semiconductor heat sinks since 1954. Primarily used by all levels of OEM's engaged in the manufacture of commercial and military equipment, IERC maintains stock and support from prototype through production. IERC has prided themselves for their flexible manufacturing, quality products and on-time delivery. Clip-On versions have a built-in clip for attaching a device to a heat sink without additional hardware, positive locks prevent the semiconductor from sliding out. TO-220 versions will also fit TO-202, TO-218 and TO-126 packages. Wattage values listed are at still air conduction only. Moving air will increase this value.

Fig. 1
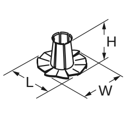

Fig. 2
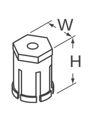

Fig. 3
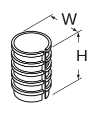

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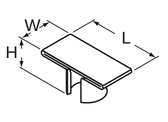

Fig. 5
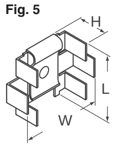

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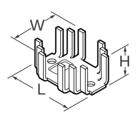

Fig. 7
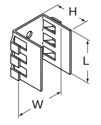

Fig. 8
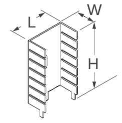

Fig. 9
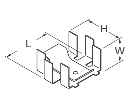

Fig. 10
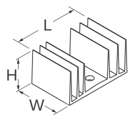

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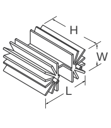

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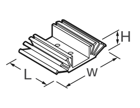

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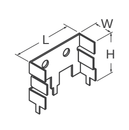

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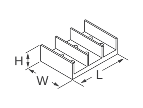

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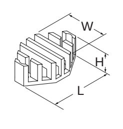

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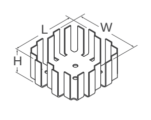

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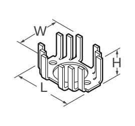

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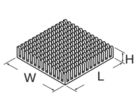

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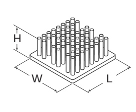

		Dimensions - Inch (mm)	Thermal	Digi-Key		Price Each		IERC
Fig.	Description	L x W x H	Res. C/Watt	Part No.	1	10	100	Part No.
1	TO-5, Single Fan Top, Black, .5W	.750 x .750 x .250 (19.05 x 19.05 x 6.35)	81.10	294-1122-ND	3.87	3.49	2.71	TXBF-032-025B
1	TO-18, Single Fan Top, .5W	.500 x .500 x .250 (12.70 x 12.70 x 6.35)	150.00	294-1004-ND	5.08	4.57	3.56	TXBF-019-025B
2	TO-5, Press-On Mount, w/Hardware, Black, 1W	— x .380 x .310 (— x 9.65 x 7.87)	73.17	294-1120-ND	26.36	23.72	18.45	TXB2P-032-037B
2	TO-5, Press-On Mount, Black, 1W	— x .380 x .310 (— x 9.65 x 7.87)	73.17	294-1121-ND	4.70	4.23	3.29	TXBE-032-031B
2	TO-8, Press-On Mount, w/out Hardware, Black, 1W	— x .380 x .310 (— x 9.65 x 7.87)	73.17	294-1118-ND	18.16	16.34	12.71	TXB2-032-037B
2	TO-18, Press-On Mount, w/Hardware Black, 5W	— x .220 x .340 (— x 5.59 x 8.64)	150.26	294-1123-ND	32.71	29.44	22.90	TXP1808B
2	TO-18, Press-On Mount, w/Hardware, Black, .6W	— x .220 x .280 (— x 5.59 x 7.11)	150.26	294-1119-ND	21.88	19.70	15.32	TXB2P-019-028B
3	TO-5, Press-On Mount, Black, 1W	— x .440 x .500 (— x 11.18 x 12.70)	35.00	294-1105-ND	2.45	2.21	1.72	7-120-BA
4	TO-5, Press-On Mount, Black, 1W	.700 x .325 x .250 (17.78 x 8.26 x 6.35)	58.00	294-1106-ND	1.95	1.76	1.37	7-175-BA
5	TO-220, Vertical/Horizontal Clip-on Mount, Black, 1.5W	.810 x 1.00 x .310 (20.57 x 25.40 x 7.87)	140.50	294-1115-ND	.70	.63	.49	PSC2-2CB
6	TO-220, Power Horizontal Mount, Black 2W	1.63 x 1.29 x .750 (41.40 x 32.77 x 19.05)	13.60	294-1113-ND	1.66	1.49	1.16	LAT0127B3CB
6	TO-220, Power Horizontal Mount, 8W	1.31 x .90 x .750 (33.27 x 22.86 x 19.05)	17.00	294-1036-ND	.88	.79	.62	LAE66A3CB
7	TO-220, Horizontal/Vertical Mount w/Tabs, Black, 2.5W	.710 x .800 x .500 (18.03 x 20.32 x 12.70)	30.00	294-1107-ND	.80	.72	.56	7-361-BA
7	TO-220, Horizontal/Vertical Mount w/Tabs, Black, 2W	.710 x .800 x .340 (18.03 x 20.32 x 8.64)	38.00	294-1108-ND	.80	.72	.56	7-362-BA
8	TO-220, Vertical Mount, 3W	.750 x .375 x .750 (19.05 x 9.52 x 19.05)	25.00	294-1011-ND	1.19	.85	.60	7-195-2-BA
7	TO-220, Horizontal Mount, 3W (No Mounting Hole)	1.09 x .620 x 1.31 (27.69 x 15.75 x 33.27)	30.00	294-1013-ND	.66	.52	.39	7-300-000-BA
8	TO-220, Vertical/Horizontal Mount w/Tabs, Nickel, 3W	1.25 x .880 x .250 (31.75 x 22.35 x 6.35)	25.40	294-1114-ND	2.90	2.62	2.04	PSB2-1ND
8	TO-220, Vertical PC Mount w/Tabs, 5W	1.00 x .500 x 1.18 (25.40 x 12.70 x 29.97)	20.00	294-1042-ND	.80	.72	.56	PB1-36CB
8	TO-220, Vertical PC Mount w/Board Locks	1.00 x .500 x 1.18 (25.40 x 12.70 x 29.97)	28.00	294-1043-ND	1.73	1.56	1.21	PB1ST-69CB
8	TO-220, Vertical PC Mount w/Tabs, 6W	.880 x .250 x 1.25 (22.35 x 6.35 x 31.75)	25.40	294-1045-ND	.93	.73	.55	PSB2-1CB
9	TO-220, High Efficiency, 3W	.710 x .310 x 1.00 (18.03 x 7.87 x 25.40)	30.00	294-1040-ND	.69	.55	.41	PA2-1CB
9	TO-220, High Efficiency, 4W	.710 x .500 x 1.00 (18.03 x 12.70 x 25.40)	26.80	294-1039-ND	.69	.55	.41	PA1-1CB
9	TO-220, Low Profile Clip-On, w/ Antirotation, Black	.810 x .310 x 1.00 (20.57 x 7.87 x 25.40)	40.50	294-1049-ND	1.19	.85	.60	PSC2T-2CB
10	TO-220, Power Vertical Mount, 7W	1.15 x .460 x .750 (29.21 x 11.68 x 19.05)	14.00	294-1034-ND	2.48	2.23	1.74	7-340-1PP-BA
10	TO-220, Power Horizontal Mount, 7W	1.15 x .460 x .750 (29.21 x 11.68 x 19.05)	14.00	294-1035-ND	2.48	2.23	1.74	7-340-3PP-BA
10	Dual TO-220, Universal Mount, 9W	1.50 x 1.15 x .460 (38.10 x 29.21 x 11.68)	7.00	294-1080-ND	3.00	2.70	2.10	7-340-2PP-BA
11	TO-220, Power Vertical Mount w/Pins, 11W	1.38 x .500 x 1.50 (35.05 x 6.35 x 38.10)	13.00	294-1024-ND	4.35	3.92	3.05	7-338-1PP-BA
11	TO-220, Power Vertical Mount w/Pins, 11W	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	11.00	294-1029-ND	4.75	4.28	3.33	7-339-1PP-BA
11	TO-220, Power Vertical Mount w/Pins, 15W	1.65 x 1.00 x 2.00 (41.91 x 25.40 x 50.80)	5.00	294-1031-ND	5.00	4.50	3.50	7-339-3PP-BA
11	TO-220, Power Vertical Mount w/Pins, 17W	1.38 x .500 x 2.50 (35.05 x 6.35 x 63.50)	4.00	294-1027-ND	5.13	4.62	3.59	7-338-4PP-BA
11	TO-220, Power Vertical Mount w/Pins, 17W	1.65 x 1.00 x 2.50 (41.91 x 25.40 x 63.50)	4.00	294-1032-ND	5.63	5.07	3.94	7-339-4PP-BA
12	TO-220, Power Horizontal/Vertical Mount, 12W	.750 x 2.00 x .553 (19.05 x 50.80 x 14.05)	9.00	294-1067-ND	1.95	1.76	1.37	7-345-1PP-BA
12	TO-220, Power Horizontal Mount, 12W	.750 x 2.00 x .553 (19.05 x 50.80 x 14.05)	9.00	294-1068-ND	2.23	2.01	1.56	7-345-3PP-BA
12	Dual TO-220, Power Universal Mount, 15W	1.50 x 2.00 x .553 (38.10 x 50.80 x 14.05)	4.00	294-1082-ND	3.28	2.95	2.30	7-345-2PP-BA
13	Dual TO-220, Vertical w/Tabs, Black, 4W	1.50 x .500 x 1.18 (38.10 x 12.70 x 29.97)	15.00	294-1117-ND	.83	.75	.59	PSE1-2CB
14	Triple TO-220, Vertical Mount, 7W	1.61 x .750 x .690 (40.89 x 19.05 x 17.53)	9.00	294-1085-ND	7.98	7.18	5.59	7-342-1PP-BA
14	Six TO-220, Horizontal Mount, 15W	1.61 x 1.50 x .690 (40.89 x 38.10 x 17.53)	4.00	294-1086-ND	4.05	3.65	2.84	7-342-2PP-BA
15	TO-3, Power Cap, Spacesaver, 2W	1.56 x 1.06 x .500 (39.62 x 26.92 x 12.70)	32.00	294-1095-ND	5.25	4.73	3.68	7-423-BA
16	TO-3, Power Horizontal Mount, Black, 8W	1.78 x 1.78 x 1.00 (45.21 x 45.21 x 25.40)	7.10	294-1124-ND	3.03	2.73	2.12	UP-TO3-CB
16	TO-3, Power Horizontal Mount, 15W	2.50 x 2.50 x .900 (63.50 x 63.50 x 22.86)	5.40	294-1088-ND	3.69	3.32	2.58	HP1-TO3-CB
17	TO-3, Power Horizontal Mount, 12W	1.63 x 1.29 x 1.25 (41.40 x 32.77 x 31.75)	11.10	294-1092-ND	4.05	3.65	2.84	LA363B5CB
18	Various Semiconductor, Adhesive Backed	.910 x .910 x .355 (23.11 x 23.11 x 9.02)	26.90	294-1097-ND	3.05	2.75	2.14	BDN09-3CB/A01
18	Various Semiconductor, Adhesive Backed	1.01 x 1.01 x .355 (25.65 x 25.65 x 9.02)	26.40	294-1098-ND	3.10	2.79	2.17	BDN10-3CB/A01
18	Various Semiconductor, Adhesive Backed	1.11 x 1.11 x .355 (28.19 x 28.19 x 9.02)	20.90	294-1109-ND	3.15	2.84	2.21	BDN11-3CB/A01
18	Various Semiconductor, Adhesive Backed	1.21 x 1.21 x .355 (30.73 x 30.73 x 9.02)	19.60	294-1099-ND	3.18	2.86	2.23	BDN12-3CB/A01
18	Various Semiconductor, Adhesive Backed	1.21 x 1.21 x .555 (30.73 x 30.73 x 14.10)	16.50	294-1110-ND	3.20	2.88	2.24	BDN12-5CB/A01
18	Various Semiconductor, Adhesive Backed	1.31 x 1.31 x .355 (33.27 x 33.27 x 9.02)	16.10	294-1100-ND	3.23	2.91	2.26	BDN13-3CB/A01
18	Various Semiconductor, Adhesive Backed	1.41 x 1.41 x .355 (35.81 x 35.81 x 9.02)	16.20	294-1101-ND	3.33	3.00	2.33	BDN14-3CB/A01
18	Various Semiconductor, Adhesive Backed	1.51 x 1.51 x .355 (38.35 x 38.35 x 9.02)	15.10	294-1102-ND	3.48	3.13	2.44	BDN15-3CB/A01
18	Various Semiconductor, Adhesive Backed	1.61 x 1.61 x .355 (40.89 x 40.89 x 9.02)	13.50	294-1103-ND	3.75	3.38	2.63	BDN16-3CB/A01
18	Various Semiconductor, Adhesive Backed	1.71 x 1.71 x .355 (43.43 x 43.43 x 9.02)	11.50	294-1111-ND	4.18	3.77	2.93	BDN17-3CB/A01
18	Various Semiconductor, Adhesive Backed	1.81 x 1.81 x .355 (45.97 x 45.97 x 9.02)	10.80	294-1104-ND	4.30	3.87	3.01	BDN18-3CB/A01
18	Various Semiconductor, Adhesive Backed	1.81 x 1.81 x .605 (45.97 x 45.97 x 15.37)	8.10	294-1112-ND	4.79	4.31	3.36	BDN18-6CB/A01
19	Various SMT Semiconductor	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1125-ND	4.60	4.14	3.22	APR27-27-12CB
19	Various SMT Semiconductor, with Thermal Tape	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1126-ND	5.20	4.68	3.64	APR27-27-12CB/A01
19	Various SMT Semiconductor, with Short Clip	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1127-ND	6.25	5.63	4.38	APR27-27-12CB/S
19	Various SMT Semiconductor, with Medium Clip	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1128-ND	6.25	5.63	4.38	APR27-27-12CB/M
19	Various SMT Semiconductor, with Tall Clip	1.026 x 1.026 x .457 (26.6 x 26.6 x 11.6)	5.3	294-1129-ND	6.25	5.63	4.38	APR27-27-12CB/T
19	Various SMT Semiconductor	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1130-ND	5.15	4.64	3.61	APR33-33-12CB
19	Various SMT Semiconductor, with Thermal Tape	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1131-ND	6.20	5.58	4.34	APR33-33-12CB/A01
19	Various SMT Semiconductor, with Short Clip	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1132-ND	6.83	6.15	4.78	APR33-33-12CB/S
19	Various SMT Semiconductor, with Medium Clip	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1133-ND	6.83	6.15	4.78	APR33-33-12CB/M
19	Various SMT Semiconductor, with Tall Clip	1.284 x 1.284 x .457 (32.6 x 32.6 11.6)	3.8	294-1134-ND	6.83	6.15	4.78	APR33-33-12CB/T
19	Various SMT Semiconductor	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1135-ND	5.30	4.77	3.71	APR38-38-12CB
19	Various SMT Semiconductor, with Thermal Tape	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1136-ND	6.35	5.72	4.45	APR38-38-12CB/A01
19	Various SMT Semiconductor, with Short Clip	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1137-ND	6.95	6.26	4.87	APR38-38-12CB/S
19	Various SMT Semiconductor, with Medium Clip	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1138-ND	6.95	6.26	4.87	APR38-38-12CB/M
19	Various SMT Semiconductor, with Tall Clip	1.461 x 1.461 x .457 (37.1 x 37.1 x 11.6)	3.3	294-1139-ND	6.95	6.26	4.87	APR38-38-12CB/T

AAVID THERMALLOY

Heat Sinks

Aavid's Ultrastick is a unique phase-change thermal interface material that surpasses grease in thermal performance and long-term stability. This solid, silicone free, paraffin based thermal compound changes phase at 60°C, with a concurrent volumetric expansion that fills gaps between the mating surfaces. One cost effective application leaves a thin, film like deposit, providing excellent heat transfer and low interface thermal resistance.

Features:

- Thermal resistance 20% lower than thermal grease, with significant long-term reliability benefits
- Excellent heat transfer properties, consistent at mounting pressures from less than 5 psi to more than 200 psi
- No run-out, migration, dry-out, or flaking that can occur with typical thermal grease
- Non-toxic and inert
- Electrically nonconducive
- Easy to use and dry to the touch after application, reducing labor costs
- Each bar covers approximately 1,000 in^2

HS243-ND **$21.88**

Fig. 1

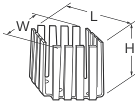

Fig. 2

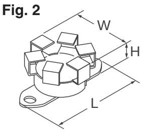

Fig. 3

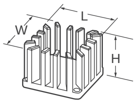

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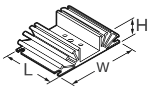

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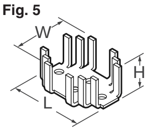

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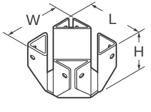

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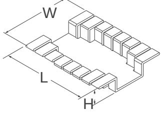

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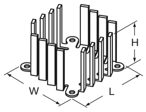

Fig. 9

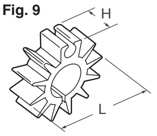

Fig. 10

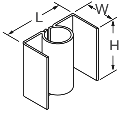

Fig. 11

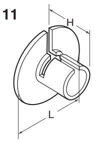

Fig. 12

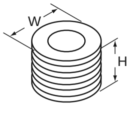

Fig. 13

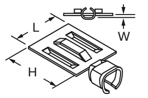

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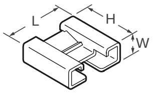

Fig. 15

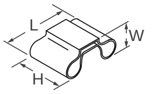

Fig. 16

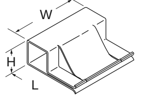

Fig. 17

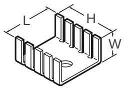

Fig. 18

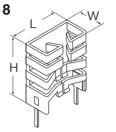

Fig.	Description	Dimensions – Inch (mm) L x W x H	Thermal Resist. °C/W	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
1	TO-3, Compact Heat Sink, 5W, Black	1.88 x 1.40 x .50 (47.75 x 35.56 x 12.70)	11.5	HS148-ND	.85	.77	.60	501303B00000G
1	TO-3, Compact Heat Sink, 7W, Black	1.88 x 1.40 x .75 (47.75 x 35.56 x 19.05)	8.3	HS149-ND	.91	.83	.64	501403B00000G
1	TO-3, With Wave-On Mounts, 9W, Black	1.88 x 1.40 x .75 (47.75 x 35.56 x 19.05)	8.3	HS267-ND	2.72	2.45	1.91	501403B00100
1	TO-3, Compact Heat Sink, 8.5W, Black	1.88 x 1.40 x 1.00 (47.75 x 35.56 x 25.40)	6.3	HS248-ND	1.27	1.15	.89	501503B00000G
1	TO-3, With Wave-On Mounts, 9W, Black	1.88 x 1.40 x 1.00 (47.75 x 35.56 x 25.40)	6.3	HS269-ND	2.49	2.24	1.74	501503B00100
1	TO-3, Compact Heat Sink, 9.5W, Black	1.88 x 1.40 x 1.25 (47.75 x 35.56 x 31.75)	5.4	HS110-ND	1.29	1.17	.91	501603B00000G
1	TO-3, Compact, 9W, Gold	1.88 x 1.40 x 1.25 (47.75 x 35.56 x 31.75)	5.4	HS270-ND	1.20	1.08	.84	501603C00000
2	TO-3, Expandable Collar Type (Can be used with Fig. 1), Black	1.54 x 1.125 x .87 (39.12 x 28.57 x 22.10)	22.0	HS236-ND	.93	.84	.65	579103B00000G
3	TO-3, 25W, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	5.4	HS103-1.25-ND	4.91	4.42	3.44	568303B00000
3	TO-3, 17W, Black	1.81 x 1.81 x .50 (45.97 x 45.97 x 12.70)	12.5	HS103-0.5-ND	4.88	4.39	3.42	568003B00000
3	TO-3, Free/Forced Air No Holes,12W, Black	1.83 x 1.83 x .50 (46.48 x 46.48 x 12.70)	5.4	HS291-ND	4.95	4.46	3.47	568000B00000
3	TO-3, Free or Forced Air Cooling, 12W, Black	1.83 x 1.83 x .75 (46.48 x 46.48 x 19.05)	5.4	HS293-ND	7.98	7.19	5.59	568103B00000
3	TO-3, Free or Forced Air Cooling, 12W, Black	1.81 x 1.81 x 1.00 (45.97 x 45.97 x 25.40)	5.4	HS294-ND	7.36	6.63	5.16	568203B00000
4	TO-3, Power Cooler, 50W, Black	3.00 x 4.125 x 1.00 (76.20 x 104.78 x 25.40)	5.4	HS117-ND	7.63	6.87	5.34	198540B00000
5	TO-3, Space Saver, 6W, Black	1.63 x 1.29 x .75 (41.40 x 32.77 x 19.05)	5.4	HS140-ND	1.55	1.40	1.09	502203B00000
5	TO-3, Space Saver, 8W, Black	1.63 x 1.29 x 1.00 (41.40 x 32.77 x 25.40)	5.4	HS141-ND	2.13	1.92	1.50	502303B00000
5	TO-3, Space Saver, 12W, Black	1.63 x 1.29 x 1.25 (41.40 x 32.77 x 31.75)	5.4	HS142-ND	1.99	1.80	1.40	502403B00000
6	TO-3, Heatsink, Fold-Back Fins, No Holes, 10W, Black	1.83 x 1.83 x 1.00 (46.48 x 46.48 x 25.40)	5.4	HS296-ND	2.93	2.64	2.06	569000B00000
6	TO-3, Fold-Back Fins, 20W, Black	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.4	HS110-3-ND	1.42	1.28	1.00	569003B00000G
6	TO-3, Fold-Back Fins, 10W, Gold	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.4	HS298-ND	1.40	1.26	.98	569003C00000
7	TO-3, Universal Hole Pattern, Low Profile, Black	2.00 x 1.75 x .375 (50.80 x 44.45 x 9.53)	7.0	HS228-ND	1.01	.91	.71	506007B00000G
8	TO-3, Slanted Fin, 10W, Black	1.81 x 1.81 x .50 (45.97 x 45.97 x 12.70)	3.5	HS260-ND	2.11	1.91	1.48	500103B00000G
8	TO-3, Slanted Fin, 12W, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	2.5	HS264-ND	2.05	1.85	1.44	500403B00000G
8	TO-3, Slanted Fin, 14W, Black	2.5 x 2.5 x .90 (63.50 x 63.50 x 22.86)	4.9	HS265-ND	2.56	2.31	1.80	500503B00000G
9	TO-5, High Performance, 2W, Black	.75 dia x .25 (19.05 dia x 6.35)	56.0	HS101-ND	1.10	.99	.77	323005B00000G
9	TO-5, Press-On, 1W, Black	.5 dia x .25 (127 dia x 6.35)	56.0	HS253-ND	1.66	1.50	1.17	320205B00000G
9	TO-5, Press-On, High Performance, 1W, Black	.50 dia x .375 (12.70 dia x 9.52)	30.0	HS259-ND	1.23	1.11	.86	326005B00000
10	TO-5, Snap-On Cooler, 1.5W, Black	.83 x .395 x .50 (21.08 x 10.03 x 12.70)	38.0	HS217-ND	.49	.36	.25	578205B00000
10	TO-5, Snap-On Cooler, 2W, Black	.83 x .395 x .75 (21.08 x 10.03 x 19.05)	35.0	HS218-ND	.46	.33	.23	578305B00000
11	TO-5, Dual Fin Press-Fit Heat Sink, Black	.75 dia x .40 (19.05 dia x 10.16)	56.0	HS242-ND	2.46	2.22	1.73	322505B00000G
11	TO-5, Press-On, 1.25W, Black	.75 dia x .25 (19.05 dia x 6.35)	40.0	HS257-ND	2.49	2.24	1.74	322605B00000G
11	TO-5, Press-On, 1.25W, Gold	.75 dia x .25 (19.05 dia x 6.35)	40.0	HS258-ND	2.43	2.19	1.71	322605C00000
11	TO-92 and TO-18, Press Fit, 1W, Black	.50 dia x .235 (12.70 dia x 5.97)	100.0	HS100-ND	1.30	1.17	.91	322400B00000G
12	TO-5, 2 Pc Part for Max Dissipation, 1W, Gold	.625 dia x .271 (15.88 dia x 6.88)	22.0	HS254-ND	7.20	6.48	5.04	321127C00000
12	TO-39, 2 Pc Part for Max Dissipation, 2W, Black	.75 dia x .290 (19.05 dia x 7.37)	20.0	HS255-ND	11.26	10.14	7.89	321527B00000G
13	TO-92, Press Fit Heat Sink, For Standard or Modified Pkg, Black	.60 x .05 x .50 (15.24 x 1.27 x 12.70)	64.0	HS251-ND	.44	.32	.23	575200B00000G
15	TO-126, Vertical Mount Clip-On Cooler, Black	.775 x .32 x .52 (19.69 x 8.13 x 13.21)	26.0	HS216-ND	.44	.32	.23	577500B00000
16	TO-202, Compact Clip-On Heat Sink, Black	.58 x .80 x .25 (14.73 x 20.32 x 6.35)	28.0	HS247-ND	.56	.40	.28	574004B00000G
17	TO-202, Low Profile Heat Sink, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	27.2	HS214-ND	.42	.30	.21	577304B00000
17	TO-202, Low Profile Heat Sink, Black	.52 x .50 x .75 (13.21 x 12.70 x 19.05)	24.0	HS215-ND	.42	.30	.21	577404B00000
19	TO-218, Power Cooler, With Pins, 10W, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS185-ND	1.30	1.17	.91	513201B02500
19	TO-218, Power Cooler, With Pins, 20W, Black	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	3.7	HS187-ND	1.62	1.46	1.14	529801B02500
20	TO-218, Quick Attach, With Pins, 12W, Black	1.95 x .50 x 1.97 (49.53 x 12.70 x 50.04)	6.5	HS134-ND	1.32	1.19	.93	592201B03400
19	TO-218, Vertical Power, 10W, With Pins, Black	1.65 x 1.00 x 2.50 (41.91 x 25.4 x 63.50)	2.5	HS277-ND	1.81	1.63	1.27	530001B02500
21	TO-218, Twisted High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	6.3	HS109-ND	1.82	1.64	1.28	530101B00150
18	TO-218, Slide-On, Vertical PC Mount, With Standard Tabs, Black	1.00 x .50 x 1.22 (25.40 x 12.70 x 30.99)	11.5	HS234-ND	1.47	1.33	1.04	566010B03400
3	TO-220, Dual Mount Power Cooler, Black	1.81 x 1.81 x 1.25 (45.97 x 45.97 x 31.75)	5.5	HS135-ND	5.70	5.13	3.99	568322B00000
6	TO-220, Dual Mount Power Cooler, 20W, Black	1.83 x 1.83 x 1.31 (46.48 x 46.48 x 33.27)	5.5	HS110-220-ND	1.80	1.62	1.26	569022B00000G
14	TO-202, Clip-On Cooler, 5W, Black	.90 x 1.02 x .39 (22.86 x 25.91 x 9.91)	16.8	HS119-ND	.61	.44	.31	574204B00000G
17	TO-220, Compact Heat Sink, Black	.52 x .25 x .75 (13.21 x 6.35 x 19.05)	32.0	HS105-ND	.39	.28	.20	577002B00000G
17	TO-220, Compact Heat Sink, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	25.9	HS106-ND	.33	.24	.17	577102B00000G
17	TO-220, Compact Heat Sink, Black	.52 x .50 x .75 (13.21 x 12.70 x 19.05)	24.4	HS107-ND	.35	.25	.18	577202B00000
17	TO-220, Low Profile, 2.5W, Gold	.75 x .75 x .375 (19.05 x 19.05 x 9.52)	24.0	HS272-ND	.34	.31	.24	507302C00000
17	TO-220, Low Profile, Low Cost Cooler, 2.5W, Black	.75 x .75 x .375 (19.05 x 19.05 x 9.53)	24.0	HS115-ND	.38	.28	.20	507302B00000G
17	TO-220, 2 Hole Pattern Comp. Sink, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	16.7	HS230-ND	.54	.43	.32	530613B00000G
17	TO-220, Horizontal/Vertical Mount, 4.5W, Black	1.00 x 1.18 x .50 (25.40 x 29.97 x 12.70)	16.7	HS278-ND	.45	.41	.32	530614B00000G
17	TO-220, Horizontal/Vertical Mount, 3.7W, Gold	1.00 x .71 x .50 (25.40 x 18.03 x 12.70)	20.3	HS279-ND	.32	.29	.23	530714C00000
17	TO-220, Compact Heat Sink, With Tabs, Black	.52 x .25 x .75 (13.21 x 6.35 x 19.05)	32.0	HS212-ND	.62	.45	.31	577002B04000
17	TO-220, Compact Heat Sink, With Tabs, Black	.52 x .375 x .75 (13.21 x 9.53 x 19.05)	25.9	HS213-ND	.62	.44	.31	577102B04000
17	TO-220, Low Cost Vertical Mount, With Front Tabs, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.6	HS206-ND*	2.85	2.57	2.00	575002T00000
17	TO-220, Low Cost Vertical Mount, With Center Tabs, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.6	HS186-ND*	3.15	2.84	2.21	523002T00000
17	TO-220, Vertical Mount With Black Tabs	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS194-ND	.48	.38	.28	563002B00000G
17	TO-220, Vertical Mount With Black Tabs	1.00 x .50 x .95 (25.40 x 12.70 x 24.13)	16.6	HS207-ND	.60	.47	.35	576602B00000G
17	TO-220, Vertical Mount With Pre-Tinned Tabs, Black	1.00 x .50 x .95 (25.40 x 12.70 x 24.13)	16.6	HS208-ND*	2.77	2.50	1.94	576602T00000
19	TO-220, Power Cooler, 9.0W, Screw Mount, Gold	1.50 x 1.375 x 1.00 (38.10 x 34.93 x 25.40)	13.4	HS282-ND	1.25	1.13	.88	531002C00000
19	TO-220, Power Cooler, With Pins, Heavy Duty, Black	1.38 x .50 x 1.00 (35.05 x 12.70 x 25.40)	13.4	HS190-ND	1.25	1.13	.88	531002B02500
19	TO-220, Power Cooler, 9.0W, Black	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS284-ND	1.22	1.10	.86	531102B00000
19	TO-220, Power Cooler, With Pins, Heavy Duty, Black	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS191-ND	1.33	1.20	.93	531102B02500
19	TO-220, Power Cooler, With Pins, 2-Sided Mount, Black	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	11.0	HS184-ND	1.11	1.01	.78	513102B02500
19	TO-220, Power Cooler, With Pins, 2-Sided Mount, Black	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	3.7	HS188-ND	1.60	1.44	1.12	529802B02500

***** Dielectric Coating   Unless otherwise noted, all heat sinks are black anodized aluminum.

(Continued)

Heat Sinks *(Cont.)*

Fig. 19

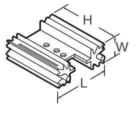

Fig. 20

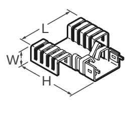

Fig. 21

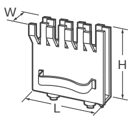

Fig. 22

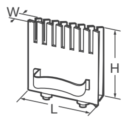

Fig. 23

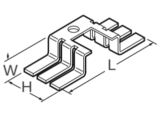

Fig. 24

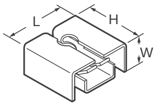

Fig. 25

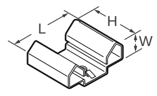

Fig. 26

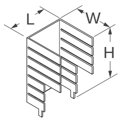

Fig. 27

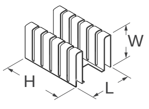

Fig. 28

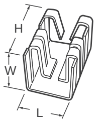

Fig. 29

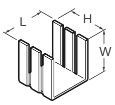

Fig. 30

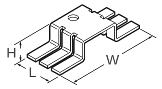

Fig. 31

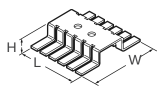

Fig. 32

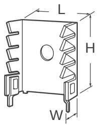

Fig. 33

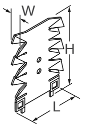

Fig. 34

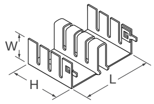

Fig. 35

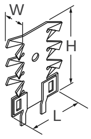

Fig. 36

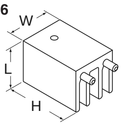

Shown with optional PC Pins

Fig. 37

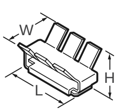

Fig. 38

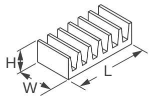

Fig. 39

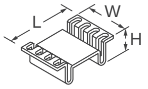

Fig.	Description	Dimensions – Inch (mm) L x W x H	Thermal Resist. °C/W	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
19	TO-220, Power Cooler, Black	1.38 x .50 x 1.00 (35.05 x 12.70 x 25.40)	13.4	HS231-ND	1.15	1.04	.81	531002B00000
19	TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS131-ND	1.45	1.31	1.02	531102C00000
19	TO-220, Power Cooler, With Pins, Gold	1.38 x .50 x 1.50 (35.05 x 12.70 x 38.10)	10.4	HS131-P-ND	1.75	1.58	1.23	531102C02500
19	TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS132-ND	1.49	1.34	1.04	531202C00000
19	TO-220, Power Cooler, With Pins, Gold	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS132-P-ND	1.85	1.67	1.30	531202C02500
19	TO-220, Power Cooler, 9.0W, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS287-ND	1.38	1.25	.97	531202B00000
19	TO-220, Power Cooler, With Pins, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.3	HS241-ND	1.44	1.30	1.01	531202B02500
19	TO-220, Vertical Power, 10W, Screw Mount, Black	1.65 x 1.00 x 1.50 (41.91 x 25.40 x 38.10)	2.5	HS276-ND	1.44	1.30	1.01	529802B00000
19	TO-220, Power Cooler, With Pins, Black	1.65 x 1.00 x 2.00 (41.91 x 25.40 x 50.80)	3.4	HS229-ND	1.94	1.75	1.36	529902B02500
19	TO-220, Power Cooler, With Pins, 9.0W, Black	1.38 x .50 x 2.50 (35.05 x 12.70 x 63.50)	8.0	HS290-ND	1.49	1.34	1.04	531302B02500
19	TO-220, Power Cooler, Screw Mount, Gold	1.38 x .50 x 2.50 (35.05 x 12.70 x 63.50)	8.0	HS133-ND	1.77	1.60	1.24	531302C00000
19	TO-220, Power Cooler, With Pins, Gold	1.38 x .50 x 2.50 (35.05 x 12.70 x 63.50)	8.0	HS133-P-ND	1.73	1.56	1.22	531302C02500
19	TO-220, Power Cooler, With Pins, Black	1.65 x 1.00 x 2.50 (41.91 x 25.40 x 63.50)	3.8	HS239-ND	1.81	1.63	1.27	530002B02500
21	TO-220, Staggered High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	16.8	HS151-ND	1.82	1.64	1.28	530402B00150
22	TO-220, Twisted High Rise Fins, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	6.3	HS152-ND	1.83	1.65	1.28	530102B00150
22	TO-220, Dual Mount, With Kool Clip, Black	1.75 x .50 x 1.75 (44.45 x 12.70 x 44.45)	4.4	HS249-ND	2.03	1.83	1.42	530162B00162
23	TO-220, 2W Extended Cap For HS112 and HS114, Black	1.75 x .70 x .50 (44.45 x 17.78 x 12.70)	15.6	HS113-ND	.46	.33	.23	507102B00000G
24	TO-220, Vertical Mount Clip-On Cooler, With 1 Mount Hole, Black	.75 x .86 x .395 (19.05 x 21.84 x 10.03)	23.2	HS111-ND	.40	.29	.21	574102B00000G
24	TO-220, Vertical Mount Clip-On Cooler, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS198-ND	.39	.28	.20	574502B00000
24	TO-220, Horizontal Mount Clip-On, PC Mount, With Std. Tabs, Blk	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	23.2	HS197-ND	.88	.70	.52	574402B03200
24	TO-220, Vertical Mount Clip-On, PC Mount, w/Long Tabs, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS200-ND	.55	.50	.39	574502B03300
24	TO-220, Vertical Mount Clip-On, PC Mount, w/Long Tabs, Black	.86 x .395 x 1.375 (21.84 x 10.03 x 34.93)	16.0	HS204-ND	.75	.68	.53	574902B03300
24	TO-220, Vertical Mount Clip-On, PC Mount, w/Stepped Tabs, Black	.86 x .395 x .75 (21.84 x 10.03 x 19.05)	21.2	HS201-ND	.58	.46	.34	574502B03700
24	TO-220, Vertical Mount Clip-On, PC Mount, w/Stepped Tabs, Black	.86 x .395 x .69 (21.84 x 10.03 x 17.53)	21.6	HS203-ND	.70	.63	.49	574602B03700
24	TO-220, Vertical Mount Clip-On, PC Mount, w/Standard Tabs, Black	.86 x .395 x 1.375 (21.84 x 10.03 x 34.93)	16.0	HS205-ND	1.03	.93	.72	574902B04300
25	TO-220, Snap Down, 5W, Black	.75 x 1.12 x .435 (19.05 x 28.45 x 11.05)	16.9	HS116-ND	.54	.43	.32	575102B00000G
25	TO-220, Snap-Down With Built-In Clip, For Standard TO-220s, Black	.975 x .44 x .75 (24.77 x 11.18 x 19.05)	16.8	HS220-ND	.48	.35	.25	579302B00000
25	TO-220, Snap-Down With Built-In Clip, For Tapered TO-220s, Black	.975 x .44 x .75 (24.77 x 11.18 x 19.05)	16.8	HS221-ND	.53	.38	.27	579402B00000
26	TO-220, High Performance PC Mount, With Tabs, Black	1.00 x 1.00 x 1.675 (25.40 x 25.40 x 42.55)	10.0	HS222-ND	1.07	.97	.76	590102B03600
27	TO-220, SlimLine High Performance, Horizontal Mount, Black	1.00 x .787 x 1.45 (25.40 x 19.99 x 36.83)	12.4	HS193-ND	.68	.61	.48	551002B00000G
28	TO-220, Slide-On, Horizontal PC Mount, With Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS150-ND	.57	.52	.41	576802B03100
28	TO-220, Slide-On, 5W, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS121-ND	.56	.40	.28	576802B00000G
28	TO-220, Slide-On, 5W, Black	.50 x .50 x .60 (12.70 x 12.70 x 15.24)	26.8	HS333-ND	.70	.51	.36	591202B00000G
28	TO-220, Slide-On, Vertical PC Mount, With Wide Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS209-ND	.61	.55	.43	576802B03700
28	TO-220, Slide-On, Vertical PC Mount, With Long Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS210-ND	.61	.48	.36	576802B03900
28	TO-220, Slide-On, Vertical PC Mount, With Standard Tabs, Black	.50 x .50 x .75 (12.70 x 12.70 x 19.05)	18.8	HS211-ND	.59	.54	.42	576802B04100
28	TO-220, Slide-On, Vertical PC Mount, With Surelock Tabs, Black	.57 x .50 x .75 (14.48 x 12.70 x 19.05)	26.8	HS223-ND	.75	.68	.53	591302B02800
28	TO-220, Slide-On, Vertical PC Mount, With Standard Tabs, Black	.75 x .50 x .50 (19.05 x 12.70 x 12.70)	18.8	HS122-ND	.55	.50	.39	576802B04000
28	TO-220, Slide-On, Vertical PC Mount, With SureLock Tabs, Black	.95 x 1.00 x 1.22 (24.13 x 25.40 x 30.99)	11.5	HS240-ND	1.53	1.38	1.08	566010B02800
29	TO-220, Economy Power Cooler, Lightweight, Black	1.00 x .50 x .71 (25.40 x 12.70 x 18.03)	20.3	HS189-ND	.44	.32	.23	530714B00000G
29	TO-220, Power Cooler, 10W, Black	.78 x .85 x 1.45 (19.81 x 21.59 x 36.83)	6.4	HS104-2-ND	.63	.50	.37	504222B00000G
29	TO-220, Power Cooler, 6W, Black	.70 x .70 x .85 (17.78 x 17.78 x 21.59)	15.6	HS104-1-ND	.45	.33	.23	504102B00000G
30	TO-220, Basic Manual Attachment, Low Profile, Black	.70 x 1.75 x .380 (17.78 x 44.45 x 9.65)	15.6	HS112-ND	.40	.29	.21	507002B00000G
31	TO-220, Dual Basic Manual Attachment, Horizontal Mount, Black	1.45 x 1.75 x .375 (36.83 x 44.45 x 9.53)	9.6	HS114-ND	.73	.53	.37	507222B00000G
32	TO-220, Twisted Fin, Vertical PC Mount, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.4	HS120-ND	.82	.74	.58	593002B03400
32	TO-220, Twisted Fin, With Surelock Tabs and Kool Clip, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS232-ND	1.36	1.23	.96	534202B02853
32	TO-220, Twisted Fin, Vertical, With Tabs and Kool Clip, Black	1.00 x .50 x 1.18 (25.40 x 12.70 x 29.97)	13.0	HS233-ND	1.63	1.47	1.14	534202B33453
33	TO-220, Spacesaver, Vertical Mount, With Tabs, Black	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	10.0	HS225-ND	.93	.84	.65	593202B03500
33	TO-220, Spacesaver, Vertical Mount, With Kool Clip/Tabs, Black	1.38 x .48 x 2.00 (35.05 x 12.19 x 50.80)	10.4	HS192-ND	.99	.89	.69	534302B03553
34	TO-220, Dual Basic Manual Attachment, Vertical Mount, Black	1.48 x .50 x 1.03 (37.59 x 12.70 x 26.16)	13.2	HS219-ND	.99	.90	.70	578622B03200
35	TO-220, Spacesaver Vertical Mount, With Tabs, Black	.875 x .25 x 1.25 (22.23 x 6.35 x 31.75)	22.0	HS224-ND	.75	.68	.53	592502B03400
35	TO-220, Spacesaver Vert. Mnt, With Kool Clip-SureLock Tabs, Blk	1.38 x .50 x 2.00 (35.05 x 12.70 x 50.80)	8.8	HS238-ND	1.34	1.21	.94	594302B02853
36	TO-220, Vertical Mount, 1W, Black	.64 x .64 x 1.00 (16.26 x 16.26 x 25.40)	17.4	HS300-ND	1.41	1.28	.99	581002B00000
36	TO-220, Vertical Mount, 2.5W, With Pins, Black	.64 x .64 x 1.00 (16.26 x 16.26 x 25.40)	17.4	HS301-ND	1.44	1.30	1.01	581002B02500
36	TO-220, Vertical Mount, 2.5W, With Pins, Gold	.64 x .64 x 1.00 (16.26 x 16.26 x 25.40)	17.4	HS302-ND	1.90	1.71	1.33	581002C02500
36	TO-220, Vertical Mount, 2.5W, Black	.64 x .64 x 1.50 (16.26 x 16.26 x 38.10)	16.8	HS303-ND	1.37	1.23	.96	581102B00000
36	TO-220, Vertical Mount, 2.5W, With Pins, Black	.64 x .64 x 1.50 (16.26 x 16.26 x 38.10)	16.8	HS304-ND	1.49	1.34	1.05	581102B02500
36	TO-220, Vertical Mount, 2.5W, With Pins, Black	.64 x .64 x 2.00 (16.26 x 16.26 x 50.80)	12.8	HS305-ND	1.99	1.80	1.40	581202B02500
37	Dip Cooler, 14 or 16 Pin IC, Slide-On, Black	.887 x .60 x .41 (22.53 x 15.24 x 10.41)	38.0	HS179-ND	.48	.38	.28	580200B00000
37	Dip Cooler, 24 Pin IC, Slide-On, Black	1.46 x 1.008 x .58 (37.08 x 25.60 x 14.73)	20.0	HS182-ND	.73	.66	.52	580500B00000
38	Dip Cooler, 14-16 Pin, Glue-On, Black	.73 x .25 x .19 (18.54 x 6.35 x 4.83)	62.5	HS227-ND	.65	.59	.46	501200B00000
38	Dip Cooler, 24 Pin IC, Glue-On, Black	1.25 x .53 x .19 (31.75 x 13.47 x 4.83)	44.0	HS273-ND	.78	.70	.55	508500B00000G
38	Dip Cooler, 40 Pin IC, Glue-On, Black	2.0 x .53 x .19 (50.8 x 13.47 x 4.83)	28.0	HS274-ND	1.45	1.31	1.02	508700B00000

* Dielectric Coating   Unless otherwise noted, all heat sinks are black anodized aluminum.

Fig.	Description	Dimensions – Inch (mm) L x W x H	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing† 250	500	Mfg. Part No.
39	SMT D2 Pak Heat Sink, Autoinsertable, Pretinned	1.03 x .50 x .40 (26.16 x 12.70 x 10.16)	HS123CT-ND	.65	.59	119.21	216.75	573300D00010
39	SMT D3 Pak Heat Sink, Autoinsertable, Pretinned	1.22 x .50 x .40 (30.99 x 12.70 x 10.16)	HS124CT-ND	.68	.61	124.99	227.25	573400D00010

† For Tape and Reel part number, change the CT-ND to TR-ND.

Wakefield Engineering

Heat Sinks

Wakefield Engineering is recognized as a worldwide leader in innovative thermal management solutions. Their products range from board level heat sinks for both surface mount and thru-hole, to fan mounted heat sinks for microprocessors and CPU's. Wakefield Engineering offers a single source for all of your thermal requirements. DeltaPads are replacements to heat sink grease but without any mess. They are heat conducting, electrically isolating pads to go between the heat sink and your semiconductor device. TO-220 heatsinks will also fit TO-202 and TO-126 packages.

Fig. 1

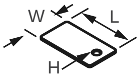

Fig. 2

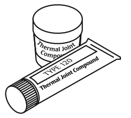

Fig. 3

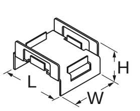

Fig. 4

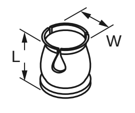

Fig. 5

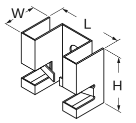

Fig. 6

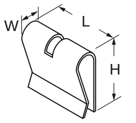

Fig. 7

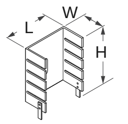

Fig. 8

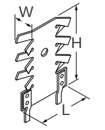

Fig. 9

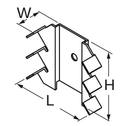

Fig. 10

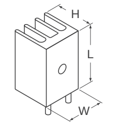

Fig. 11

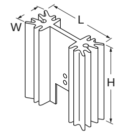

Fig. 12

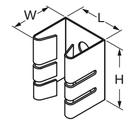

Fig. 13

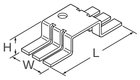

Fig. 14

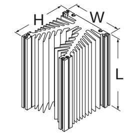

Fig. 15

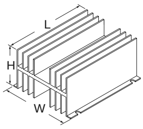

Fig. 16

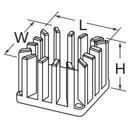

Fig. 17

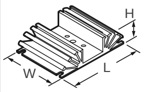

Fig. 18

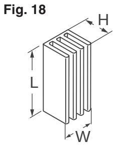

Fig. 19

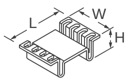

Fig. 20

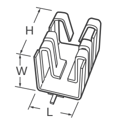

Fig. 21

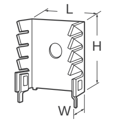

Fig. 22

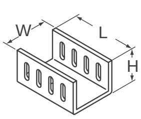

Fig. 23

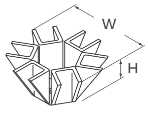

Fig. 24

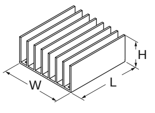

Fig. 25

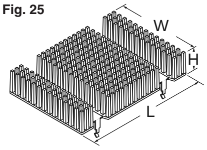

Fig. 26

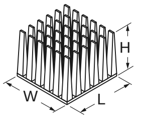

Fig. 27

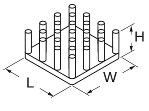

Fig.	Description	Dimensions – mm L x W x H	Digi-Key Part No.	Price Each 1	10	100	Wakefield Part No.
1	DeltaPad Thermal Pad TO-220 No Adhesive (.18mm)	18.0 x 12.7 x 3.6 dia.	345-1000-ND	.42	.30	.21	173-7-220P
1	DeltaPad Thermal Pad TO-220, Adhesive (.18mm)	19.1 x 12.7 x 3.7 dia.	345-1079-ND	.25	.18	.13	173-7-240A
1	DeltaPad Thermal Pad TO-220, No Adhesive (.23mm)	19.1 x 12.7 x 3.2 dia.	345-1080-ND	.25	.18	.13	173-9-230P
1	DeltaPad Thermal Pad TO-220, No Adhesive (.23mm)	19.1 x 12.7 x 3.7 dia.	345-1001-ND	.95	.68	.48	173-9-240P
1	Kapton Thermal Pad, TO-220, No Adhesive (.15mm)	18.0 x 12.7 x 3.6 dia.	345-1002-ND	.46	.33	.23	175-6-220P
1	Kapton Thermal Pad TO-220, No Adhesive (.15mm)	19.1 x 12.7 x 3.2 dia.	345-1003-ND	.35	.25	.18	175-6-230P
1	Kapton Thermal Pad TO-220, No Adhesive (.15mm)	19.1 x 12.7 x 3.7 dia.	345-1004-ND	.39	.28	.20	175-6-240P
1	Kapton Thermal Pad TO-220, No Adhesive (.15mm)	21.8 x 18.8 x 4.1 dia.	345-1005-ND	.63	.45	.32	175-6-280P
2	Silicon Thermal Grease, 4 gram Plastic Pak	—	345-1006-ND	5.04	3.36	2.61	120-SA
2	Silicon Thermal Grease, 2 Oz. Jar	—	345-1007-ND	13.02	8.68	6.73	120-2
2	Silicon Thermal Grease, 5 Oz. Tube	—	345-1008-ND	24.43	17.10	14.66	120-5
2	Silicon Thermal Grease, 8 Oz. Jar	—	345-1009-ND	29.78	20.85	17.87	120-8
2	Silicon Thermal Grease, 5 Lbs. Can	—	345-1010-ND	147.95	103.57	88.77	120-80
2	Synthetic Non-Silicon Thermal Compound 4 Oz Tube	—	345-1011-ND	26.23	18.36	15.74	126-4
3	D-Pack/SOT-23 Heat Sink, Pretinned, Autoinsertable	18.80 x 15.24 x 9.14	345-1012-ND	.32	.23	.16	217-36CT6
4	TO-5 Clip-On Cup Style With 4-40 Thd Base	9.40 x 9.65 dia.	345-1013-ND	12.90	8.60	6.67	260-4T5E
5	TO-220, Self-Locking, Horz/Vert Mount, Black	25.40 x 12.70 x 21.59	345-1016-ND	.70	.50	.35	235-85AB
6	TO-220, Self-Locking, Horz/Vert Mount, Black	20.32 x 6.86 x 20.32	345-1017-ND	.35	.25	.18	243-3PAB
7	TO-220, Vertical Mount Wave-Solderable, With Tabs Black	25.40 x 12.70 x 29.97	345-1018-ND	1.61	1.15	.81	287-1AB
7	TO-220, Low Cost Horz/Vert Mount, Black	25.40 x 12.70 x 18.03	345-1019-ND	.39	.28	.20	289-AB
7	TO-220, Dual Low Cost Horz/Vert Mount, Black	25.40 x 12.70 x 29.97	345-1020-ND	.53	.38	.27	290-1AB
7	TO-220, Dual Mount Low Cost, Black	25.40 x 12.70 x 29.97	345-1021-ND	.53	.38	.27	290-2AB
7	TO-220, Low Cost Horz/Vert Mount, Black	19.05 x 9.52 x 19.05	345-1022-ND	.53	.38	.27	273-AB
7	TO-220, Low Cost Horz/Vert Mount, Black	13.21 x 9.52 x 19.05	345-1023-ND	.39	.28	.20	274-1AB
7	TO-220, Vertical Mount, Black	25.4 x 12.7 x 30.0	345-1081-ND	1.12	.80	.56	206-1PABH
7	TO-220, Wave-Solderable Low-Cost Heat Sinks	25.4 x 12.7 x 30.0	345-1088-ND	1.61	1.15	.81	287-1ABH
8	TO-220, Vertical Mount Wave-Solderable, With Tabs	22.23 x 5.46 x 31.75	345-1024-ND	1.47	1.05	.74	288-1AB
9	TO-220 Self-Locking, Vertical Mount, Black	25.40 x 9.14 x 21.84	345-1025-ND	.77	.55	.39	291-H36AB
10	TO-220 Power Vertical Mount With Pins/6-32Thds, Black	16.26 x 16.26 x 25.40	345-1026-ND	1.79	1.28	.90	634-10ABP
10	TO-220 Power Vertical Mount With Pins/6-32Thds, Black	16.26 x 16.26 x 38.1	345-1091-ND	1.89	1.35	.95	634-15ABP
10	TO-220 Power Vertical Mount With Pins/6-32Thds, Black	16.26 x 16.26 x 50.80	345-1027-ND	2.52	1.80	1.26	634-20ABP
11	TO-220 Power Vertical Mount With Pins, Black	34.93 x 12.70 x 25.40	345-1028-ND	1.54	1.10	.77	637-10ABP
11	TO-220 Power Vertical Mount With Pins, Black	34.93 x 12.70 x 38.10	345-1029-ND	2.14	1.53	1.07	637-15ABP
11	TO-220 Power Vertical Mount With Pins, Black	34.93 x 12.70 x 50.80	345-1030-ND	1.82	1.30	.91	637-20ABP
11	TO-220 Power Vertical Mount With Pins, Black	41.91 x 25.40 x 25.40	345-1031-ND	1.79	1.28	.90	647-10ABP
11	TO-220 Power Vertical Mount With Pins, Black	41.91 x 25.40 x 38.10	345-1032-ND	2.03	1.45	1.02	647-15ABP
11	TO-220 Power Vertical Mount With Pins, Black	41.91 x 25.40 x 38.10	345-1033-ND	2.03	1.45	1.02	657-15ABP
11	TO-220 Power Vertical Mount With Pins, Black	41.91 x 25.40 x 38.10	345-1034-ND	2.14	1.53	1.07	657-15ABPN
11	TO-220 Power Vertical Mount With Pins, Black	41.91 x 25.40 x 50.80	345-1035-ND	2.56	1.83	1.28	657-20ABP
11	TO-220 Pwr SpeedClip Mount With Pins (Order clip below)	34.93 x 12.70 x 25.40	345-1037-ND	2.28	1.63	1.14	667-10ABPP
—	SpeedClip, Stainless Steel for 667 Series	—	345-1039-ND	.81	.58	.41	330-SC
12	TO-220 Self-Locking Horz/Vert Mount, Black	14.48 x 12.70 x 19.05	345-1040-ND	.46	.33	.23	230-75AB
13	TO-220 Low Cost Horz/Vert Mount, Black	44.45 x 9.52 x 17.78	345-1041-ND	.42	.30	.21	270-AB
13	TO-220 Top Mount Booster for 270,272,280 Series, Black	44.45 x 12.70 x 17.78	345-1042-ND	.46	.33	.23	271-AB
13	TO-220 Dual Mount Horz, Black	44.45 x 9.52 x 36.83	345-1043-ND	.60	.43	.30	272-AB
14	IGBT and SSR's Power Module's Black	180.01 x 124.97 x 135.64	345-1046-ND	120.13	84.09	72.08	392-180AB
15	TO-3 Power Horz Mount Double Fin, Black	120.65 x 38.10 x 31.75	345-1047-ND	12.75	8.50	6.59	401-A
15	Power Heat Sink Horz, Double Fin, No Holes	120.65 x 38.10 x 31.75	345-1048-ND	8.58	5.72	4.44	401-K
15	Power Heat Sink, Horz, Double Fin, No Holes	120.65 x 76.20 x 66.55	345-1049-ND	15.30	10.20	7.91	421-K
15	Power Heat Sink, Horz, Double Fin, No Holes	120.65 x 139.70 x 66.55	345-1050-ND	19.33	13.53	11.60	423-K
16	TO-3 Power, Horz Mount, Omnidirectional, Black	45.97 x 45.97 x 31.75	345-1051-ND	11.01	7.34	5.69	680-125A
17	TO-3 Heavy Duty Power, Horz Mount, Black	104.78 x 76.20 x 25.40	345-1052-ND	10.89	7.26	5.63	641-A
17	Power Heat Sink, Horz Mount, No Holes, Black	104.78 x 76.20 x 25.40	345-1053-ND	10.50	7.00	5.43	641-K
18	14-16 Dip IC Heat Sink, Glue On, Black	19.05 x 10.54 x 6.10	345-1054-ND	.84	.60	.42	651-B
19	Surface Mount, Black	22.9 x 8.0 x 10.2	345-1082-ND	1.02	.73	.51	218-40CT3
19	Surface Mount, Black	26.2 x 12.7 x 10.2	345-1083-ND	.74	.53	.37	218-40CT5
20	TO-220, Horizontal and Vertical Mount, Black	14.5 x 12.7 x 19.1	345-1084-ND	.60	.43	.30	262-75AB-01
20	TO-220, Horizontal and Vertical Mount, Black	14.5 x 12.7 x 19.1	345-1085-ND	.67	.48	.34	262-75AB-05
21	TO-220, Vertical Mount, Black	25.4 x 12.7 x 30.0	345-1086-ND	.95	.68	.48	265-118ABH-22
22	TO-220, Low-Height Wavesolderable, Black	19.1 x 12.7 x 13.2	345-1087-ND	.39	.28	.20	274-2AB
23	Stud-Mount, Black, ID=5.1mm	— x 33.8 x 12.3	345-1095-ND	1.68	1.20	.84	695-1B
24	Half Brick DC/DC Converter, Vert, Black	57.91 x 60.96 x 24.13	345-1055-ND	3.75	2.50	1.94	518-95AB
24	Half Brick DC/DC Convert With Hardware/Thermal Pad	57.91 x 60.96 x 24.13	345-1056-ND	6.57	4.38	3.40	518-95AB-MS4
24	Half Brick DC/DC Converter Vert, Black	57.91 x 60.96 x 11.43	345-1057-ND	3.24	2.16	1.68	528-45AB

CPU, PGA and BGA Heat Sinks

609 Series: Fits PowerPC 601, 604, 255BGA 628 Series: Fits IntelDX4, Intel 80486DX2, AM486DX2/DX4 658 Series: Fits IntelDX4, AM29240, PowerPC 603

Fig.	Description	Dimensions – mm L x W x H	Digi-Key Part No.	Price Each 1	10	100	Wakefield Part No.
	CPU Cooler						
18	35mm BGA Unidirectional Fin Heat Sink	35.00 x 35.00 x 11.4	345-1092-ND	2.00	1.43	1.00	642-45AB
25	40mm QFP and 21mm BGA With Clips and Thermal Tape, Black	73.41 x 50.80 x 12.70	345-1058-ND	12.48	8.32	6.45	609-50ABS3
26	21mm BGA With Thermal Double Sided Tape	21.01 x 21.01 x 6.35	345-1059-ND	2.17	1.55	1.09	624-25ABT4
26	25mm BGA With Thermal Double Sided Tape	24.99 x 24.99 x 6.35	345-1060-ND	2.45	1.75	1.23	625-25ABT4
26	17x17 PGA No Tape, Black	44.45 x 43.18 x 10.16	345-1061-ND	2.35	1.68	1.18	628-40AB
26	17x17 PGA No Tape, Black	44.45 x 43.18 x 16.51	345-1062-ND	2.70	1.80	1.40	628-65AB
26	28-38mm CQFP No Tape, Black	27.94 x 27.94 x 6.35	345-1036-ND	1.16	.83	.58	658-25AB
26	28-38mm CQFP With Thermal Tape (Chomerics T-405), Black	27.94 x 27.94 x 6.35	345-1063-ND	2.73	1.95	1.37	658-25ABT1
26	28-38mm CQFP With Thermal Tape (Arclad 8223) Black	27.94 x 27.94 x 6.35	345-1064-ND	2.52	1.80	1.26	658-25ABT2
26	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.94 x 27.94 x 6.35	345-1065-ND	2.49	1.66	1.29	658-25ABT4
26	28-38mm CQFP No Tape, Black	27.94 x 27.94 x 8.89	345-1066-ND	1.16	.83	.58	658-35AB
26	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.94 x 27.94 x 8.89	345-1067-ND	2.43	1.62	1.26	658-35ABT3
26	28-38mm CQFP With Thermal Tape (Chomerics T-410), Black	27.94 x 27.94 x 8.89	345-1068-ND	2.49	1.66	1.29	658-35ABT4
26	28-38mm CQFP No Tape, Black	27.94 x 27.94 x 11.43	345-1069-ND	1.26	.90	.63	658-45AB
26	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.94 x 27.94 x 11.43	345-1070-ND	2.66	1.90	1.33	658-45ABT2
26	28-38mm CQFP With Thermal Tape (Chomerics T-410), Black	27.94 x 27.94 x 11.43	345-1071-ND	2.61	1.74	1.35	658-45ABT4
26	28-38mm CQFP No Tape, Black	27.94 x 27.94 x 15.24	345-1072-ND	1.51	1.08	.76	658-60AB
26	28-38mm CQFP With Thermal Tape (Chomerics T-405), Black	27.94 x 27.94 x 15.24	345-1073-ND	2.58	1.72	1.34	658-60ABT1
26	28-38mm CQFP With Thermal Tape (Arclad 8223), Black	27.94 x 27.94 x 15.24	345-1074-ND	2.40	1.60	1.24	658-60ABT2
26	28-38mm CQFP With Thermal Tape (Chomerics T-412), Black	27.94 x 27.94 x 15.24	345-1075-ND	2.67	1.78	1.38	658-60ABT3
26	21mm BGA With Omnidirectional Pin Fin Heat Sink, Black	21.01 x 21.01 x 11.4	345-1089-ND	2.07	1.48	1.04	624-45ABT3
26	25mm BGA With Omnidirectional Pin Fin Heat Sink, Black	24.99 x 24.99 x 11.4	345-1090-ND	1.54	1.10	.77	625-45AB
26	Pin Fin Heat Sinks, Black	40.6 x 40.6 x 13.3	345-1093-ND	2.21	1.58	1.11	655-53AB
26	Omnidirectional Pin Fin, Black	27.9 x 27.9 x 8.9	345-1094-ND	2.73	1.82	1.42	658-60ABT4
	CPU Composite Cooler						
27	CPU Composite Cooler for 84-100QFP, 169BGA, No Tape, Black	16.51 x 16.51 x 10.16	345-1076-ND	1.26	.90	.63	D10650-40
27	CPU Composite Cooler for 128-200QFP, 313BGA, No Tape, Black	21.59 x 21.59 x 10.16	345-1077-ND	1.26	.90	.63	D10850-40

AAVID THERMALLOY

BGA Heat Sinks

Aavid Thermalloy offers the broadest line of innovative BGA heat sinks - including standard, off-the-shelf solutions to support all of your most demanding applications. All come in the flat base and light weight you require, and deliver proven, long-term reliability.

PCB Hole Patterns

Fig. 1

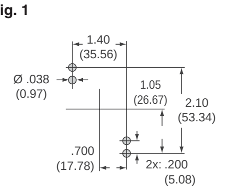

Fig. 2

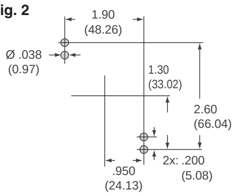

Fig. 3

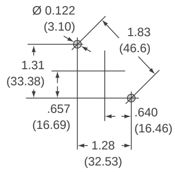

Fig. 4

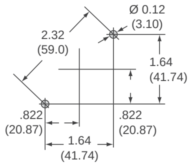

Fig. 5

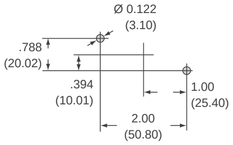

Solder Anchor Attachment Method

Features and Benefits: • New unique wire clip design allows for complete reworkability after assembly without damage to the BGA package or PC Board • Minimal PC Board real estate is required for mounting • Solder Anchors provide the most rugged mounting in the industry • Each Heat Sink utilizes a phase change pad as the interface for optimal thermal performance. **Finish:** Black Anodize

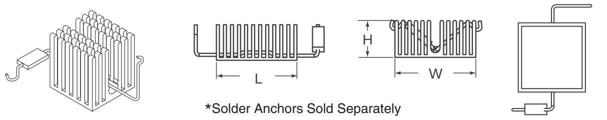

*Solder Anchors Sold Separately

Fig.	Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
1	23.0	23.0	25.0	19.7	6.37	HS329-ND	3.43	3.09	2.40	374224B60023G
1	27.0	27.0	25.0	16.5	5.47	HS330-ND	3.75	3.38	2.63	374524B60023G
2	35.0	35.0	18.0	15.3	5.15	HS326-ND	4.20	3.78	2.94	374724B60024G
2	35.0	35.0	25.0	12.0	4.27	HS331-ND	4.48	4.03	3.14	374824B60024G
2	40.0	40.0	10.0	20.3	6.46	HS327-ND	4.48	4.03	3.14	374924B60024G
2	40.0	40.0	18.0	12.2	4.34	HS328-ND	4.85	4.37	3.40	375024B60024G
2	40.0	40.0	25.0	10.3	3.83	HS332-ND	5.30	4.77	3.71	375124B60024
Solder Anchor……………………………………						HS334-ND*	.30	.27	.21	D057

*Solder anchors must be soldered to the PCB Prior to attaching the heat sink clip
† = Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ = Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.

Push Pin Attachment Method

Features and Benefits: • All Heat Sinks utilize industry standard hole patterns • Plastic push pins are standard. Consult Aavid Thermalloy for versions available with brass push pins for more rugged applications • Each Heat Sink utilizes a Phase Change Pad as the interface for Optimal Thermal Performance • Minimal diameter holes are necessary for mounting to PC Board **Finish:** Black Anodize

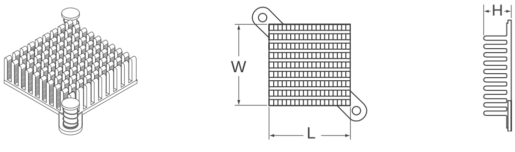

Fig.	Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
3	28.5	28.5	10.0	30.6	9.26	HS306-ND	2.50	2.25	1.75	10-6327-01 REV B-G
4	37.4	37.4	6.0	32.6	9.91	HS308-ND§	3.28	2.95	2.30	372924M02000
5	41.4	45.2	11.7	14.2	4.91	HS307-ND	3.08	2.78	2.16	10-L4LB-11

† = Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ = Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.
§Finish: Green Anodize

Clip Attachment Method

Features and Benefits: • A unique clip eliminates the need for mounting holes in the PC Board • Each Heat Sink utilizes a Phase Change Pad as the interface for optimal thermal performance • The clips unique design eliminates the need for thermal tape attachment **Finish:** Black Anodize

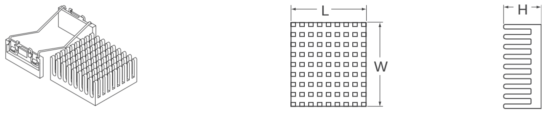

Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
34.5	31.4	15.6	19.7	6.30	HS309-ND	5.38	4.84	3.77	2519B-EP11-BGS5
38.1	38.0	10.2	22.1	6.94	HS310-ND	5.28	4.76	3.70	2522B-EP04-BGS5

† = Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ = Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.

Tape Attachment Method

Features and Benefits: • Tape mounted versions eliminate the need for mounting holes in the PC Board • These Heat Sinks can be used with either plastic or metal/ceramic BGA Packages • These Heat Sinks are compatible with Ther-a-grip Tapes **Finish:** Black Anodize

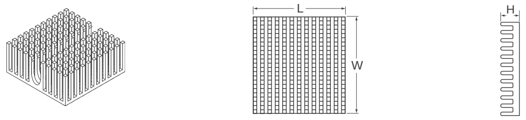

Surface	Width	Length	Height	Therm. Res. Nat.†	Therm. Res. Forced‡	Digi-Key Part No.	Price Each 1	10	100	Aavid Part No.
Plastic	23.0	23.0	10.0	40.0	11.69	HS316-ND	2.63	2.37	1.84	374024B00035G
Plastic	23.0	23.0	18.0	23.4	7.39	HS317-ND	2.67	2.41	1.87	374124B00035G
Plastic	27.0	27.0	10.0	30.6	9.35	HS318-ND	3.08	2.78	2.16	374324B00035G
Plastic	27.0	27.0	18.0	20.3	6.46	HS319-ND	3.30	2.97	2.31	374424B00035G
Plastic	30.0	30.0	9.4	29.4	9.11	HS311-ND	3.31	2.99	2.32	335824B00034
Metal	35.0	35.0	7.0	31.9	9.67	HS313-ND	3.73	3.36	2.61	371824B00032
Plastic	35.0	35.0	7.0	31.9	9.67	HS314-ND	4.65	4.19	3.26	371824B00034
Metal	35.0	35.0	10.0	23.4	7.55	HS320-ND	3.69	3.32	2.58	374624B00032
Plastic	35.0	35.0	10.0	23.4	7.55	HS321-ND	4.13	3.72	2.89	374624B00035G
Metal	35.0	35.0	18.0	15.3	5.15	HS322-ND	3.64	3.28	2.55	374724B00032
Plastic	35.0	35.0	18.0	15.3	5.15	HS323-ND	3.80	3.42	2.66	374724B00035G
Metal	37.4	37.4	6.0	32.6	9.91	HS315-ND§	3.80	3.42	2.66	373324M00032
Metal	40.0	40.0	10.0	20.3	6.46	HS324-ND	4.15	3.74	2.91	374924B00032
Metal	40.0	40.0	18.0	12.2	4.34	HS325-ND	4.88	4.39	3.42	375024B00032
Metal	40.1	40.0	11.4	18.4	6.02	HS312-ND	3.84	3.46	2.69	364424B00032

† = Natural convection thermal resistance based on a 75°C heat sink temperature rise.
‡ = Forced convection thermal resistance based on an entering 1.0 m/s (200 lfm) airflow.
§Finish: Green Anodize

Panasonic®

"PGS" (Pyrolytic Graphite Sheet) Heat Sink Sheets

PGS (Pyrolytic Graphite Sheet) is a heat sink sheet with high thermal conductivity and high flexibility. PGS is made of graphite with a structure that is close to a single crystal. This is achieved by highly-oriented polymer film sheet, a process which has never been implemented before.

Features: • Excellent thermal conductivity: 600 ~ 800 W/(m.K), twice as high as copper, three times as high as aluminum • Light weight: the same as water (Specific gravity: 1.0 g/cm^3), 1/9 that of copper, 1/3 that of aluminum • Flexible sheet, easy to be cut or trimmed and withstands repeated bending • High heat resistance: Stable up to about 400°C even in the air • Low thermal resistance • The main component is carbon. Minimal impurities and outgassing • Excellent heat transferring performance. Heat sink and even distribution of heat

Application Examples: • Notebook personal computers, DVDs, DVCs, mobile phones • Semiconductor manufacturing equipment (Sputtering, Dry etching, Steppers) • Optical communications equipment

General Characteristics of PGS

Items	Characteristics
Thickness	0.1±0.05mm
Density	1.0 g/cm^3
Thermal Conductivity (a-b plane)	600 – 800 W/(m.K)
Thermal Resistance	0.4°C/w(10N/cm^2)
Electrical Conductivity (a-b plane)	10000 S/cm
Extensional Strength	19.6 Mpa
Expansion Coefficient (a-b plane) (c axis)	9.3 x 10^{-7} 1/K 32 x 10^{-6} 1/K
Heat Resistance	400°C
Bending (angle 180, R5)	10000 cycles

Dimensions L x W (mm)	Digi-Key Part No.	Price Each	Panasonic Part No.
125 x 180	P11438-ND	104.48	EYG-S131810
125 x 90	P11439-ND	57.46	EYG-S091310
60 x 90	P11440-ND	29.88	EYG-S060910
90 x 115	P12726-ND	36.44	EYG-S091210
57 x 90	P12727-ND	33.53	EYG-M060910SS
57 x 90	P12728-ND	19.92	EYG-A060910P
57 x 90	P12729-ND	19.92	EYG-A060910B

ITW Chemtronics®

Heat Sink Grease

For fast heat transfer from components

- Nonflammable
- Noncorrosive
- Silicon
- Will not dry out, harden or melt
- 5 oz. tube
- Meets MIL-C-47113
- Stable from: -0°F ~ 342°F (-18°C ~ 172°C)

Digi-Key Part No.	Price Each 1	25	100	Chem-tronics Part No.
CT40-5-ND	16.40	14.82	13.84	CT40-5

THE BERGQUIST COMPANY

Heat Sink Pads "The Alternative To Grease"

Sil-Pad 600® is a thermally conductive, silicone elastomer filled with special ingredients to provide higher thermal properties than the original fiberglass based Sil-Pad. This material has excellent physical and mechanical characteristics while remaining cost competitive. (Electrically Insulating Material)

Sil-Pad 900-S® family of thermally conductive insulation materials are designed for low cost applications requiring high thermal performance. Intended as an improved Sil Pad 600 alternative.

Q-Pad 3® is a thermally conductive, fiberglass reinforced graphite imbedded elastomer which conforms to surface textures extremely well. This material eliminates problems associated with thermal grease such as contamination of electronic assemblies and reflow solder baths. Q-Pad 3 may be installed prior to soldering and cleaning. (Electrically Conducting Material)

Sil-Pad K10® is a thermally conductive Kapton composite film coated with boron nitride filled polyester resin, offering the highest thermal properties of the Kapton insulators with minimum thickness and lower thermal resistance. Designed to replace brittle ceramic insulators. (Electrically Insulating Material)

CPU Pad® is a thermally conductive, electrically insulating, Kapton double coated tape. Typically used between the CPU and heat sink, it was designed to be used in place of clips used to attach heat sink to CPU. No clamping times or high pressure is required.

SPT 400 is a thermally conductive insulation for clip mounted plastic power devices. These TO-220 thermal tubes slip over the semiconductor device and conduct the heat to the heat sink and clip. Designed to be used on heat sinks with metal clips to attach device to heat sink. (Electrically Insulating Material)

HI-FLOW™ 115-AC is a thermally conductive fiber reinforced phase change material. The product consists of a thermally conductive 65° C phase change compound coated on a fiberglass web with an adhesive coating on one side for attachment to a cold heat sink. Handles like a Sil-Pad at room temperature and flows like high quality grease at elevated temperature.

Bond Ply™ 100 is a thermally conductive, double-sided pressure sensitive adhesive tape. The tape consists of a high performance, thermally conductive acrylic adhesive coated with a fiberglass reinforced interweave. Bond Ply 100 is designed to attain high bond strength to a variety of surfaces and to maintain high bond strength with long term exposure to moderate heat and high humidity. Typical Applications: • Mounting a heat sink to a BGA graphic processor • Mounting a heat sink to a computer processor • Mounting a heat sink to a drive processor • Mounting a heat spreader to a power converter PCB • Mounting a heat spreader to a motor control PCB.

Gap Pad™ 1500 is designed to cost-effectively maximize heat transfer from electronic components to heat sinks or heat spreaders. GP 1500 is a highly conformable low-modulus material that fills air gaps due to steps, rough surfaces and high stack-up tolerances. The softness relieves stress and absorbs shocks minimizing damage to delicate leads. GP 1500 is an electrically isolating material that allows its use in applications requiring isolation between heat sinks and high voltage, bare leaded devices.

Gap Pad™ 1500R has the same highly conformable low modulus polymer as the standard Gap Pad™ 1500. The fiberglass reinforcement allows for easy material handling and enhances puncture, shear, and tear resistance. The tacky nature of both sides of the material allows for good compliance to mating surfaces of components, further reducing thermal resistance.

Sil-Pad K-4® uses a specially developed film which has high thermal conductivity, high dielectric strength and is very durable. Sil-Pad K-4 combines the thermal transfer properties of well-known Sil-Pad rubber with the physical properties of a film. Sil-Pad K-4 is a durable insulator that withstands high voltages and requires no thermal grease to transfer heat.

Sil-Pad K-6® is a medium performance film-based thermally conductive insulator. The film is coated with a silicone elastomer to deliver high performance and provides a continuous physically tough dielectric barrier against "cut-through" and resultant assembly failures.

Sil-Pad 1000® has the same excellent mechanical and physical characteristics of our Sil-Pad 400 material while offering a 35% reduction in thermal resistance. Sil-Pad 1000 is a composite of silicone rubber and fiberglass. It is specially filled and offers low thermal resistance. Sil-Pad 1000 is non-toxic and resists damage from cleaning agents. It is flame retardant and specially formulated for use as a thermally conductive insulator.

Sil-Pad 2000® is Bergquist's high performance, high reliability, thermally conductive insulator. Sil-Pad 2000 is designed for demanding military/aerospace and commercial applications. In these applications, Sil-Pad 2000 complies with military standards. This silicone elastomer is specially filled to maximize the thermal and dielectric performance of the filler/binder matrix. The result is a "grease-free", conformable material capable of meeting or exceeding the thermal and electrical requirements of high reliability electronic packaging applications.

Gap-Pad® VO Ultra Soft is recommended for extremely low stress applications. The viscoelastic nature of the material also gives excellent low stress vibration dampening and shock absorbing characteristics. Gap Pad VO Ultra Soft is an electrically isolating material which allows its use in applications requiring isolation between heat sinks and high voltage and bare leaded devices.

Fig. 1

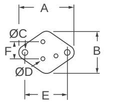

Fig. 2

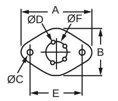

Fig. 3

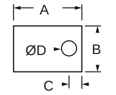

Fig. 4

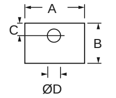

Fig. 5

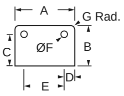

Fig. 6

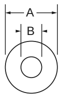

Fig. 7

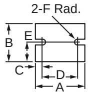

Fig. 8

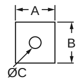

Fig. 9

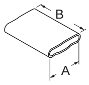

Fig. 10

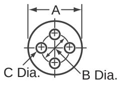

		Dimensions – Inch (mm)							Digi-Key	Price Each				Bergquist
Fig.	Device Type	A	B	C	D	E	F	G	Part No.	1	10	50	100	Part No.
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER100-ND	1.09	.98	.88	.78	SP600-05
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER172-ND	1.09	.98	.88	.78	SP900S-05
		1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER101-ND	1.17	1.05	.94	.84	SP600-02
		1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER171-ND	1.06	.95	.85	.75	SP900S-02
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER111-ND	2.32	2.08	1.86	1.65	K10-05
		1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER112-ND	2.60	2.33	2.09	1.85	K10-02
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER122-ND	.71	.63	.57	.50	Q3-05
		1.250 (31.75)	.700 (17.78)	.140 (3.56)	.062 (1.57)	.960 (24.38)	.200 (5.08)	—	BER152-ND	1.03	.93	.83	.74	K10-30
	TO-3 / TO-66	1.78 (45.21)	1.25 (31.75)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER209-ND*	.63	.56	.51	.45	7403-09FR-02
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER203-ND*	.60	.54	.49	.43	3223-07FR-05
		1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	—	BER212-ND*	.60	.54	.49	.43	7403-09FR-05
		1.65 (41.91)	1.14 (28.96)	.122 (3.10)	.062 (1.57)	1.187 (30.15)	.430 (10.92)	—	BER211-ND*	.60	.54	.49	.43	7403-09FR-04
		1.563 (39.70)	1.05 (26.67)	.140 (3.56)	.080 (2.03)	1.187 (30.15)	.430 (10.92)	—	BER210-ND*	.58	.52	.47	.42	7403-09FR-03
		1.312 (33.32)	.762 (19.35)	.140 (3.56)	.062 (1.57)	.960 (24.38)	.200 (5.08)	—	BER218-ND*	.53	.48	.43	.38	7403-09FR-11
2	TO-3 (4PIN)	1.56 (39.62)	1.05 (26.67)	.156 (39.62)	.080 (2.03)	1.170 (29.72)	.470 (11.94)	—	BER139-ND	.72	.65	.58	.51	SP600-86
		1.56 (39.62)	1.05 (26.67)	.156 (39.62)	.080 (2.03)	1.170 (29.72)	.470 (11.94)	—	BER140-ND	1.49	1.33	1.19	1.06	K10-86
		1.56 (39.62)	1.05 (26.67)	.156 (39.62)	.080 (2.03)	1.170 (29.72)	.470 (11.94)	—	BER141-ND	.49	.45	.40	.35	Q3-86
3	TO-247AC	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER178-ND	.82	.74	.66	.59	SP900S-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER120-ND	1.36	1.22	1.09	.97	K10-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER131-ND	.63	.56	.51	.45	Q3-104
	TO-220	1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER200-ND	1.68	1.51	1.35	1.20	2015-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER204-ND*	.51	.46	.41	.37	3223-07FR-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER221-ND	.66	.60	.54	.47	K6-104
		1.00 (25.40)	.750 (19.05)	.300 (7.62)	.140 (3.56)	—	—	—	BER109-ND	.63	.57	.51	.45	SP600-104
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER208-ND*	.50	.45	.41	.36	3223-07FR-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER217-ND*	.50	.45	.41	.36	7403-09FR-90
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER102-ND	.73	.66	.59	.52	SP600-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER176-ND	.73	.66	.59	.52	SP900S-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER103-ND	.73	.66	.59	.52	SP600-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER175-ND	.73	.66	.59	.52	SP900S-54
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER110-ND	.73	.66	.59	.52	SP600-43
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER174-ND	.73	.66	.59	.52	SP900S-43
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER113-ND	1.02	.92	.82	.73	K10-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER114-ND	.82	.74	.66	.59	K10-54
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER121-ND	1.02	.92	.82	.73	K10-43
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER124-ND	.60	.54	.49	.43	Q3-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER125-ND	.60	.54	.49	.43	Q3-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER198-ND	.57	.51	.46	.41	1009-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER201-ND	1.07	.96	.86	.76	2015-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER206-ND*	.48	.43	.39	.34	3223-07FR-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER215-ND*	.48	.43	.39	.34	7403-09FR-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER219-ND	.54	.49	.44	.39	K4-54
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER199-ND	.57	.51	.46	.41	1009-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER202-ND	1.07	.96	.86	.76	2015-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER207-ND*	.48	.43	.39	.34	3223-07FR-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER216-ND*	.48	.43	.39	.34	7403-09FR-58
		.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER220-ND	.54	.49	.44	.39	K4-58
		.750 (19.05)	.500 (12.70)	—	—	—	—	—	BER132-ND	.60	.54	.49	.43	Q3-43
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER205-ND*	.48	.43	.39	.34	3223-07FR-51
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER214-ND*	.48	.43	.39	.34	7403-09FR-51
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER146-ND	.72	.65	.58	.52	K10-51
		.687 (17.45)	.562 (14.27)	.218 (5.54)	.125 (3.18)	—	—	—	BER147-ND	.43	.39	.35	.31	Q3-51
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER108-ND	.80	.72	.64	.57	SP600-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER177-ND	.80	.72	.64	.57	SP900S-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER119-ND	1.26	1.13	1.01	.90	K10-90
		.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER130-ND	.62	.56	.50	.44	Q3-90
4	MULTI	.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER107-ND	.83	.75	.67	.59	SP600-114
		.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER180-ND	.83	.75	.67	.59	SP900S-114
		.945 (24.00)	.827 (21.01)	.196 (4.98)	.150 (3.81)	—	—	—	BER118-ND	1.38	1.24	1.11	.98	K10-114
5	SIP	1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER106-ND	.94	.84	.75	.67	SP600-105
		1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER117-ND	1.76	1.58	1.42	1.25	K10-105
		1.450 (36.83)	.838 (21.29)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER179-ND	.94	.84	.75	.67	SP900S-105
6	DO-5	1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER105-ND	.88	.79	.71	.63	SP600-25
		1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER173-ND	.88	.79	.71	.63	SP900S-25

* Made of SP400 material.

(Continued)

THE BERGQUIST COMPANY Heat Sink Pads "The Alternative To Grease" *(Cont.)*

Fig.	Device Type	Dimensions – Inch (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Price Each 1	10	50	100	Bergquist Part No.
6	DO-5	1.00 (25.40)	.260 (6.60)	—	—	—	—	—	BER116-ND	1.57	1.41	1.26	1.12	K10-25
7	SIP Module	1.50 (38.10)	.900 (22.86)	.150 (3.81)	1.20 (30.48)	.450 (11.43)	.075 (1.91)	—	BER136-ND	.48	.43	.39	.34	Q3-67
		2.50 (63.50)	2.00 (50.80)	.344 (8.74)	1.81 (46.02)	1.00 (25.40)	.156 (3.96)	—	BER137-ND	.65	.58	.52	.46	Q3-101
8	CPU	.63 (16.00)	.63 (16.00)	—	—	—	—	—	BER133-ND	.52	.47	.42	.38	CPU .63X.63
		1.375 (34.93)	1.375 (34.93)	—	—	—	—	—	BER135-ND	.86	.78	.70	.62	CPU 1.375X1.375
	Bridge Rect.	1.00 (25.40)	1.00 (25.40)	.187 (4.75)	—	—	—	—	BER142-ND	.46	.42	.37	.33	Q3-48
		1.25 (31.75)	1.25 (31.75)	.200 (5.08)	—	—	—	—	BER144-ND	.49	.44	.39	.35	Q3-46
		1.25 (31.75)	1.25 (31.75)	.200 (5.08)	—	—	—	—	BER145-ND	1.44	1.29	1.15	1.02	K10-46
9	TO-220 Tubes	.433 (11.00)	.985 (25.02)	—	—	—	—	—	BER156-ND	.73	.66	.59	.52	SPT400 -12-11-25
	TO-247 Tubes	.532 (13.50)	.985 (25.02)	—	—	—	—	—	BER157-ND	.89	.80	.72	.64	SPT400-12- 13.5-25
10	TO-5	.360 (9.14)	.200 (5.08)	.040 (1.02)	—	—	—	—	BER213-ND*	.46	.41	.37	.33	7403-09FR-09
"Hi-Flow™ " Single Side Adhesive Backed Pads (Phase Change)														
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	.072 (1.83)	BER166-ND	.28	.25	.23	.20	HF115TAAC-05
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER167-ND	.10	.09	.08	.07	HF115TAAC-54
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER168-ND	.10	.09	.08	.07	HF115TAAC-58
3	TO-218	.860 (21.84)	.740 (18.80)	.200 (5.08)	.160 (4.06)	—	—	—	BER169-ND	.12	.10	.09	.08	HF115TAAC-90
5	SIP	1.450 (36.83)	.830 (21.08)	.612 (15.54)	.245 (6.22)	.960 (24.38)	.170 (4.32)	.120 (3.05)	BER170-ND	.14	.13	.11	.10	HF115TAAC-105
"SP900" Single Side Adhesive Backed Pads (Low Mounting Pressure)														
1	TO-3	1.65 (41.91)	1.14 (28.96)	.140 (3.56)	.093 (2.36)	1.187 (30.15)	.430 (10.92)	.072 (1.83)	BER181-ND	1.14	1.03	.92	.81	SP900EAAC-05
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.147 (3.73)	—	—	—	BER182-ND	.74	.67	.60	.53	SP900EAAC-54
3	TO-220	.750 (19.05)	.500 (12.70)	.187 (4.75)	.125 (3.18)	—	—	—	BER183-ND	.74	.67	.60	.53	SP900EAAC-58
"Bond Ply™ 100" Double Sided Thermal Tape														
Double Sided Adhesive Thermal Pad, .005" (.127) Thick, 10" (25.4cm) Square Sheet									BER158-ND	41.44	36.98	33.15	29.33	BOND PLY 105 10x10"
Double Sided Adhesive Thermal Pad, .008" (.203) Thick, 10" (25.4cm) Square Sheet									BER159-ND	50.99	45.51	40.80	36.09	BOND PLY 108 10x10"
Double Sided Adhesive Thermal Pad, .011" (.279) Thick, 10" (25.4cm) Square Sheet									BER160-ND	63.77	56.90	51.02	45.13	BOND PLY 111 10x10"
"Gap Pad™ 1500" Thermal Gap Filling Material														
High Thermally Conductive Pad, .020" (.508) Thick, 4" (10.16cm) Square Sheet									BER161-ND	9.98	8.91	7.99	7.07	.020 GP 1500 4" X 4"
High Thermally Conductive Pad, .040" (1.02) Thick, 4" (10.16cm) Square Sheet									BER162-ND	14.33	12.79	11.47	10.15	.040 GP 1500 4" X 4"
High Thermally Conductive Pad, .060" (1.52) Thick, 4" (10.16cm) Square Sheet									BER163-ND	16.45	14.68	13.16	11.64	.060 GP 1500 4" X 4"
High Thermally Conductive Pad, .080" (2.03) Thick, 4" (10.16cm) Square Sheet									BER164-ND	19.44	17.35	15.55	13.76	.080 GP 1500 4" X 4"
High Thermally Conductive Pad, .125" (3.18) Thick, 4" (10.16cm) Square Sheet									BER165-ND	26.39	23.55	21.12	18.68	.125 GP 1500 4" X 4"
High Thermally Conductive Pad, .040" (1.02) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER227-ND	86.26	76.97	69.01	61.05	.040 GP 1500 8" X 16"
High Thermally Conductive Pad, .060" (1.52) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER228-ND	96.85	86.42	77.48	68.54	.060 GP 1500 8" X 16"
High Thermally Conductive Pad, .080" (2.03) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER229-ND	110.92	98.98	88.74	78.50	.080 GP 1500 8" X 16"
High Thermally Conductive Pad, .125" (3.18) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER230-ND	189.31	168.93	151.45	133.98	.125 GP 1500 8" X 16"
"Gap Pad™ 1500R" Thermal Gap Filling Material														
High Thermally Conductive Pad, .010" (.254) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER231-ND	54.21	48.38	43.37	38.37	GP1500R 10 MIL 8" x 16"
High Thermally Conductive Pad, .015" (.381) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER232-ND	63.25	56.44	50.60	44.76	GP1500R 15 MIL 8" x 16"
High Thermally Conductive Pad, .020" (.508) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER233-ND	72.96	65.11	58.37	51.64	GP1500R 20 MIL 8" x 16"
"Gap Pad™ VO Ultra Soft" Thermal Gap Filling Material														
High Thermally Conductive Pad, .020" (.508) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER222-ND	72.05	64.30	57.65	51.00	.020 GP US 8" X 16"
High Thermally Conductive Pad, .040" (1.02) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER223-ND	90.61	80.86	72.49	64.13	.040 GP US 8" X 16"
High Thermally Conductive Pad, .060" (1.52) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER224-ND	101.66	90.72	81.33	71.95	.060 GP US 8" X 16"
High Thermally Conductive Pad, .080" (2.03) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER225-ND	116.48	103.94	93.19	82.44	.080 GP US 8" X 16"
High Thermally Conductive Pad, .125" (3.18) Thick, 8" x 16" (20.32 x 40.64cm) Sheet									BER226-ND	193.38	172.55	154.70	136.85	.125 GP US 8" X 16"

* Made of SP400 material.

ISO 9002 CERTIFIED MANUFACTURER KEYSTONE ELECTRONICS CORP

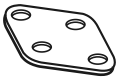

MICA Insulators for Transistor Mounting

These precision stamped MICA Insulators provide good thermal conductivity (.009 watts per square inch per °C per inch in thickness). Excellent thermal resistance 1100°F (593°C). Dielectric constant of 7 at 1000KHz.
Specifications: .003" (.08mm) thick MICA ± .001" (± .03mm).

Fig. 1

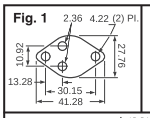

Fig. 2

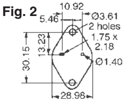

Fig. 3

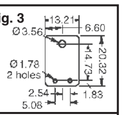

Fig. 4

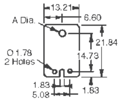

"A" Dim. (Dia.)
4672K: 3.58mm
4673K: 2.92mm

Fig.	Digi-Key Part No.	Pricing 10	100	500	1,000	Keystone Part No.
1	4651K-ND	1.07	6.65	28.25	38.40	4651
2	4662K-ND	1.17	7.30	31.75	42.00	4662
3	4671K-ND	1.14	6.65	28.25	27.25	4671
4	4672K-ND	.88	6.65	28.25	19.90	4672
4	4673K-ND	.88	6.65	28.25	19.90	4673

MILL-MAX

Transistor Sockets

Plating:
Sleeve (Pin):
200μ" Sn.
Contact (Clip):
30μ" Au.

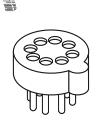

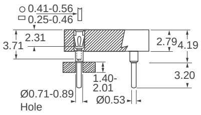

No. of Pins	Digi-Key Part No.	Price Each 1	10	100	Mill-Max Part No.
TO-5 Package					
3	ED2150-ND	.58	.49	.41	917-93-103-41-005000
4	ED2151-ND	.77	.65	.54	917-93-104-41-005000
8	ED2152-ND	1.48	1.25	1.03	917-93-108-41-005000
TO-100 Package					
8	ED2153-ND	1.48	1.25	1.03	917-93-208-41-005000
10	ED2154-ND	1.77	1.50	1.23	917-93-210-41-005000

ISO 9002 CERTIFIED MANUFACTURER KEYSTONE ELECTRONICS CORP

TO-3 Power Transistor Sockets

Fig. 1

Chassis Mount
- Top Plate: Molded Nylon
- Base: Phenolic • Dimensions: 1.53"x.073" (38.86mm x 1.85mm)
- Standoffs: 0.09" (2.29mm)

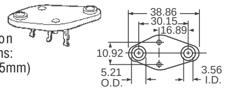

Fig. 2

Chassis Mount
- Top Plate: Phenolic
- Base: Phenolic
- Dimensions: 1.35"x1.00" (34.29mm x 25.40mm) • Standoffs: None

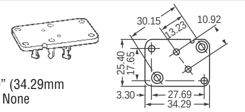

Fig. 3

P.C. Board Mount
- Top Plate: Molded Nylon
- Base: Phenolic • Dimensions: 1.53"x.073" (38.86mm x 1.85mm)
- Standoffs: 0.09" (2.29mm)

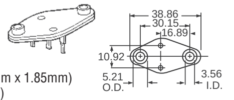

Transistor Mounting Hardware

Fig. 4A

TO-220
Complete Mounting Kit
(one each of A, B, C, D, E)

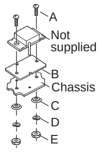

Fig. 4B

TO-3
Complete Mounting Kit
(A, B, C, D, E, F, G)

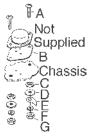

* **6-20** Mounting Screws
(A Only, 2 Required)

Fig.	Digi-Key Part No.	Price Each 1	10	100	Keystone Part No.
1	4601K-ND	1.69	1.57	1.44	4601
2	4606K-ND	1.44	1.34	1.17	4606
3	4600K-ND	1.51	1.41	1.23	4600
4A	4724K-ND	1.75	1.63	1.02	4724
4B	4725K-ND	1.75	1.63	1.02	4725
4B	4706K-ND*	2.41/20	17.50/200		4706

ASAHI RUBBER INC.

Heat Sink Pads

Asahi Rubber offers an excellent product for applications requiring a thermal solution. The ART Series is a thermally conductive silicone gel that can be cut as required.
Features: • Color: Gray • Dimensions: 11.81" x 8.46" (300mm x 215mm) • Thickness range: 0.3 mm to 2.0 mm • Operating Temperature Range: -60°C ~ 200°C

Thickness Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	Asahi Part No.
.01 (0.3)	509-1000-ND	48.12	44.11	39.30	ART03
.02 (0.5)	509-1001-ND	53.01	48.60	43.30	ART05
.04 (1.0)	509-1002-ND	76.59	70.21	62.55	ART10
.06 (1.5)	509-1003-ND	98.19	90.01	80.19	ART15
.08 (2.0)	509-1004-ND	120.12	110.11	98.10	ART20

molex Waldom ELECTRONICS

TO-220 Solder Tail Transistor Sockets

P.C. Board Mount: .100" (2.54mm) center. These three circuit transistor sockets are preassembled and ready for soldering to a P.C. Board. The proven double cantilever design eliminates circuit failure due to thermal expansion and/or mechanical tolerances. Linear movement of the transistor leads in the socket does not affect contact reliability.

Material: Tin-Plated Brass, 94V-2 Rated Nylon

Fig. 1

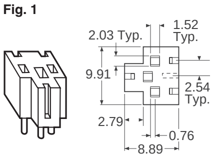

Fig. 2

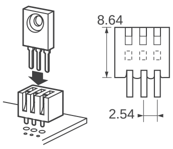

Fig.	Digi-Key Part No.	Price Each 1	10	100	Molex Part No.
1	WM2550-ND	1.62	1.43	.96	09-48-3031
2	WM2551-ND	2.00	1.77	1.18	10-18-2031

Portescap DANAHER MOTION -SPECIALTY MOTORS

Stepper Motors

These stepper motors are very precise DC motors that move a specific degree of rotation with each pulse applied to its coils. Stepper motors can be controlled for either clockwise or counterclockwise rotation and can operate at very high speeds. Shaft speed is not affected by variations in torque. Unipolar motors have two coils wound on the same bobbin (4 coils total) where each winding is sequentially energized. Bipolar motors have only two windings and require a push-pull driver to operate. Holding torque is the force required to hold the shaft with back pressure applied. MNM is millinewton meter + torque **Operating Specification: • Maximum Operating Temperature:** 100°C **• Operating Temperature Range:** -20°C ~ 70°C **• Bearing Type:** Bronze sleeve **• Insulation Res. @ 500VDC:** 100MΩ **• Dielectric Withstanding Voltage:** 650VRMS 60Hz for 2 seconds **• Lead Wires:** 26AWG

Geared Stepper Motors

Standard 7.5 degree Stepper Motors offered with gear reduction for extremely high torque and precision. Perfect replacement for DC geared motors where accuracy is needed.

Digital Linear Actuators

Precise "In and Out" movements controlled by a stepper motor, these low-cost units provide industry-leading linear force positioning capability. An ideal linear actuator solution in medical equipment applications such as pumps, pipettes and scanners, as well as instrumentation and HVAC applications. These linear actuators are available in captive and non-captive versions, unipolar or bipolar coil construction, and industry-standard frame sizes.

Fig. 1

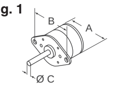

Fig. 2

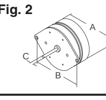

Fig. 3

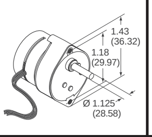

Fig. 4

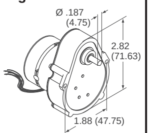

Fig. 5

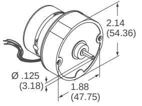

Fig. 6

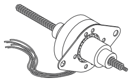

Fig. 7

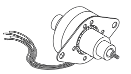

Fig.	Rated Voltage (VDC)	Type	Motor Size (mm) A	Motor Size (mm) B	Motor Size (mm) C	Steps per Rev.	Step Angle (Degrees)	Holding Torque (1) (mNm/oz-in)	Digi-Key Part No.	Price Each	Danaher Part No.
Standard Stepper Motors											
1	5	Bipolar	15	20	1.5	20	18	3.9/.55	403-1000-ND	15.50	15M020D1B
	5	Unipolar	20	34.9	1.5	20	18	7.8/1.1	403-1001-ND	16.20	20M020D1U
	5	Unipolar	20	34.9	1.5	24	15	7.70/1.1	403-1018-ND	16.20	20M024D1U
	5	Bipolar	20	34.9	1.5	20	18	11.31/1.6	403-1002-ND	15.50	20M020D1B
	5	Unipolar	26	34.9	2	24	15	6.3/0.9	403-1020-ND	16.20	26M024D1U
	12	Unipolar	26	34.9	2	24	15	6.3/0.9	403-1003-ND	16.20	26M024B2U
	5	Unipolar	26	34.9	2	48	7.5	9.2/1.3	403-1019-ND	16.20	26M048D1U
	12	Unipolar	26	34.9	2	48	7.5	9.2/1.3	403-1004-ND	16.20	26M048B2U
	5	Bipolar	26	34.9	2	48	7.5	10.6/1.5	403-1005-ND	15.46	26M048B1B
	5	Unipolar	36	42	2	48	7.5	18.35/ 2.6	403-1021-ND	17.20	35M048B1U
	5	Unipolar	36	42	2	48	7.5	25/3.5	403-1022-ND	17.20	35L048B1U-N
	5	Bipolar	36	42	2	48	7.5	27.5/3.9	403-1006-ND	16.50	35L048B1B-N
	12	Unipolar	36	42	2	48	7.5	27.5/3.9	403-1007-ND	17.20	35L048B2U-N
	12	Unipolar	36	42	2	48	7.5	18.4/2.6	403-1008-ND	17.20	35M048B2U
2	5	Unipolar	42	49.5	3	48	7.5	66.2/9.4	403-1023-ND	17.80	42M048C1U-N
	5	Unipolar	42	49.5	3	48	7.5	49.4/7.0	403-1024-ND	18.00	42L048D1U
	5	Bipolar	42	49.5	3	48	7.5	87.5/12.4	403-1009-ND	16.90	42M048C1B
	12	Unipolar	42	49.5	3	48	7.5	73.4/10.4	403-1010-ND	17.80	42M048C2U
	12	Unipolar	42	49.5	3	48	7.5	50.8/7.2	403-1011-ND	17.80	42S048D2U
	5	Bipolar	42	49.5	3	100	3.6	49.4/7.0	403-1012-ND	16.90	42M100B1B
	12	Unipolar	42	49.5	3	100	3.6	45.2/6.4	403-1013-ND	17.80	42M100B2U
	5	Bipolar	44	49.5	3	100	3.6	46.6/6.6	403-1014-ND	17.10	44M100D1B
	12	Bipolar	44	49.5	3	100	3.6	46.6/6.6	403-1015-ND	17.80	44M100D2B
	5	Unipolar	55	66.7	6.35	48	7.5	102.4/14.5	403-1025-ND	18.90	55M048D1U
	5	Bipolar	55	66.7	3	48	6.3	122.2/17.3	403-1016-ND	18.00	55M048D1B
	12	Unipolar	55	66.7	3	48	6.3	102.4/14.5	403-1017-ND	18.90	55M048D2U

Fig.	Rated Voltage (VDC)	Type	Output Step Angle	Gear Ratio Gearhead	Output Speed Shaft	Running Torque (Nm/oz-in)	Digi-Key Part No.	Price Each	Danaher Part No.
Geared Stepper Motors									
3	12	Unipolar	0.25	30:1	6.25RPM @ 100PPS	70.6/10.0	403-1026-ND	30.92	26M048B2U-V31
4	5	Bipolar	0.15	50:1	6RPM @ 240PPS	.211/29.9	403-1027-ND	36.68	42M048C1B-Z36
5	12	Unipolar	0.75	10:1	30RPM @ 240PPS	.854/121	403-1029-ND	38.68	42M048C2U-R21
5	12	Bipolar	0.75	10:1	30RPM @ 240PPS	.854/121	403-1028-ND	38.68	42M048C2B-R21

Fig.	Rated Voltage (VDC)	Type	Shaft Type	Maximum Shaft Travel	Step Resolution	Digi-Key Part No.	Price Each	Danaher Part No.
Digital Linear Actuators								
6	12	Unipolar	NonCaptive	1.38"	.001"	403-1030-ND	35.20	20DAM10D2U-L
7	12	Unipolar	Captive	0.63"	.001"	403-1031-ND	38.56	20DAM10D2U-K
6	12	Unipolar	NonCaptive	1.89"	.001"	403-1032-ND	46.22	26DBM10D2U-L
7	12	Unipolar	Captive	0.52"	.001"	403-1033-ND	47.32	26DBM10D2U-K
6	12	Unipolar	NonCaptive	2.50"	.001"	403-1034-ND	52.88	35DBM10B2U-L
7	12	Unipolar	Captive	0.761"	.001"	403-1035-ND	55.86	35DBM10B2U-K

Note: *1 Holding Torque measured with rated voltage and 2 phases energized.*

MODERN TECHNOLOGY

Unipolar Stepper Motor Driver Board

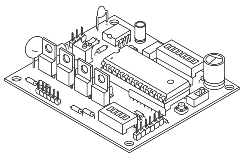

The MTSD-V1 can be used as a stand-alone uni-polar stepper motor driver board or in conjunction with a PC or programmable controller for greater flexibility.

Applications: Robotics, Motion Control, Education, Light Duty Industrial • Adjustable On-Board Step Clock (15-1500hz) • Continuous Run or Pre-settable Step Count from 0-255 steps • Pushbutton Repeat (pre-set step count) • LED Phase/ Step Indicators • .1" SIP Header Connectors (.025" square pins)

"Stand Alone" Functions (Dip Switch Selectable): • Disable/Enable • CW/CCW Direction • Single/Dual Phase Drive • Locked/Free Motor during Disable • Continuous Run/Pre-set Step Count (0-225 steps)

Programmable Controller Input Functions: • Disable/Enable CW/CCW Direction • Pre-set Step Count Repeat • Logic OUTOUT pin to ID end of pre-set step count • External Clock Input (10 KHz maximum)

Power Requirements: • Logic Supply: 5VDC @ 50mA **• Motor Supply:** Maximum of 24VDC @ 1.85 Amps draw **• Board Dimensions:** 3.20" x 2.70" x .875" (81.28mm x 68.58mm x 22.23mm)

MTSD-V1-ND **$82.40**

CRAMER COMPANY

AC/DC Geared Motors

105 Series AC Gear Motor: Unidirectional operation assured by ball and slot "no-back" system. Motors listed are all clockwise rotation when facing the output shaft.

Characteristics: Rotor Speed 600 RPM, 115VAC, 60Hz Coil, 2.7 Watts, -20°C ~ 55°C Operating Temperature. Heat rise +54°C nominal. Motor develops 300oz-in. Torque starting and running at 1 RPM. Motors shown utilize standard gearing rated for 30oz-in maximum load. To determine torque available on motors shown, divide 300oz-in by listed motor speed.

800I Series DC Gear Motor: Basic 2400 and 4800 armature speed used. Geartrain rating 30oz-in dynamic, 90oz-in static. Starting and running torque 60oz-in at 1rpm. These ratings are conventionally stated for output geared to 1rpm. The torque theoretically available at another output speed is the torque at 1rpm divided by the desired speed. Input power 2 Watts. Motor output speed will be higher if load is less than 30oz-in Voltages offered 12VDC and 24VDC. DC motors are reversible by reversing polarity at terminals. Operating these motors at voltages greater than 10% of nominal could possibly cause premature motor failure.

105 Series

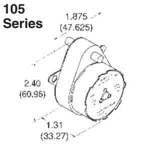

Flatted Round Shaft

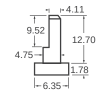

(Std. for both series)

800I Series

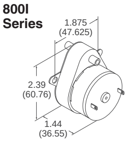

Volt.	RPM	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Cramer Part No.
105 Series						
110 VAC	12	CRA101-ND	26.22	22.91	20.70	MBA08AA24AABT542X
	10	CRA102-ND	26.22	22.91	20.70	MBA08AA13MADT542X
	6	CRA103-ND	26.22	22.91	20.70	MBA08AA24FAAT542X
	2	CRA104-ND	26.22	22.91	20.70	MBA08AA1A5ABT542X
	1	CRA105-ND	26.22	22.91	20.70	MBA08AA1C5ABT542X
	1/2	CRA106-ND	26.22	22.91	20.70	MBA08AA26HAAT542X
800I Series						
12 VDC	1	CRA201-ND	46.55	40.67	36.75	DC3275
	10	CRA202-ND	46.55	40.67	36.75	DC3276
	30	CRA203-ND	46.55	40.67	36.75	DC3277
24 VDC	1	CRA204-ND	46.55	40.67	36.75	DC3278
	10	CRA205-ND	46.55	40.67	36.75	DC3279
	30	CRA206-ND	46.55	40.67	36.75	DC3280

Pontiac Coil

Solenoids

Pontiac Coil's range of latching, open-frame and tubular solenoids are all designed for manufacturability and unsurpassed quality.

Open Frame

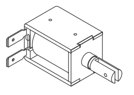

Tubular

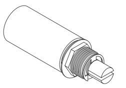

Dimensions Inch H x L x W	Max. Stroke Length Inch Cont./Inter./Pulsed	Duty Cycle W Cont./Inter./Pulsed	Coil VDC	Digi-Key Part No. Cont. Version	Digi-Key Part No. Inter. Version	Digi-Key Part No. Pulsed Version	Price Each 1	Price Each 25	Price Each 100	Pontiac Part No. Cont. Version	Pontiac Part No. Inter. Version	Pontiac Part No. Pulsed Version
Open Frame Pull Type												
1.63 x 2.03 x 1.44	1/1	11/44	12	527-1016-ND	527-1017-ND	—	28.00	23.01	13.80	F0451A	F0452A	—
			24	527-1018-ND	527-1019-ND	—	28.00	23.01	13.80	F0453A	F0454A	—
1.21 x 1.85 x 0.95	0.75/0.75	8/19	12	527-1008-ND	527-1009-ND	—	25.00	20.00	10.85	F0431A	F0432A	—
			24	527-1010-ND	527-1011-ND	—	25.00	20.00	10.85	F0433A	F0434A	—
0.96 x 1.17 x 0.82	0.50/0.50	6.4/12.5	12	527-1004-ND	527-1005-ND	—	22.50	17.75	10.11	F0421A	F0422A	—
			24	527-1006-ND	527-1007-ND	—	22.50	17.75	10.11	F0423A	F0424A	—
0.75 x 1.20 x 0.76	0.50/0.50	4/8.5	12	527-1000-ND	527-1001-ND	—	21.00	16.25	9.26	F0411A	F0412A	—
			24	527-1002-ND	527-1003-ND	—	21.00	16.25	9.26	F0413A	F0414A	—
1.24 x 2.02 x 1.00	0.75/0.75	7.5/19	12	527-1012-ND	527-1013-ND	—	26.00	19.05	11.91	F0441A	F0442A	—
			24	527-1014-ND	527-1015-ND	—	26.00	19.05	11.91	F0443A	F0444A	—
1.85 x 2.66 x 1.57	1.25/1.25	13/48	12	527-1020-ND	527-1021-ND	—	30.00	25.51	14.96	F0461A	F0462A	—
			24	527-1022-ND	527-1023-ND	—	30.00	25.51	14.96	F0463A	F0464A	—
Open Frame Latching Pull Type with Spring Return												
0.76 x 1.19 x 0.76	0.375/0.375/0.375	4/9/40	12	527-1036-ND	527-1037-ND	527-1038-ND	32.00	28.00	18.31	G0401A	G0402A	G0403A
			24	527-1039-ND	527-1040-ND	527-1041-ND	32.00	28.00	18.31	G0404A	G0405A	G0406A
1.23 x 2.05 x 1.03	0.75/0.75/0.75	7/20/72	12	527-1042-ND	527-1043-ND	527-1044-ND	34.00	29.50	21.10	G0411A	G0412A	G0413A
			24	527-1045-ND	527-1046-ND	527-1047-ND	34.00	29.50	21.10	G0414A	G0415A	G0416A
Tubular Pull Type												
Dia. 1.00 x L 2.03	0.875/0.875	8/40	12	527-1028-ND	527-1029-ND	—	29.00	24.51	14.20	F0481A	F0482A	—
			24	527-1030-ND	527-1031-ND	—	29.00	24.51	14.20	F0483A	F0484A	—
Dia. 1.50 x L 2.38	1.25/1.25	14/66	12	527-1032-ND	527-1033-ND	—	35.00	31.01	22.50	F0491A	F0492A	—
			24	527-1034-ND	527-1035-ND	—	35.00	31.01	22.50	F0493A	F0494A	—
Dia. 0.75 x L 1.50	0.50/0.875	6/40	12	527-1024-ND	527-1025-ND	—	27.00	22.50	12.91	F0471A	F0472A	—
			24	527-1026-ND	527-1027-ND	—	27.00	22.50	12.91	F0473A	F0474A	—

ZETEX
SEMICONDUCTORS

Semiconductor solutions for power and signal management

For more information visit www.zetex.com/digikey

Lighting ICs

Zetex has developed a range of high efficiency, cost effective and versatile LED driver ICs to tackle a wide range of existing and emerging applications including:

- Display screens backlighting
- Low-voltage halogen replacement LEDs
- Architectural and decorative lighting
- Camera flash
- Automotive lighting
- Solar powered traffic signs

Features:

- 2.5 to 5.5V internal switch — ZXLD1100 / 1101 / 1601 / 1615 / 1937
- 1.6 to 5.5V internal switch — ZXLB1600
- 7 to 30V internal switch — ZXLD1350
- 0.8 to 8V external switch — ZXSC300 / 310
- 1.8 to 8V external switch — ZXSC400 / 440

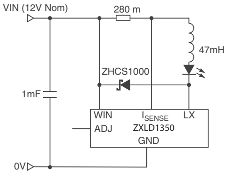

The ZXLD1350 is a continuous mode inductive buck converter designed to drive up to three 1W series connected white LEDs from a 12V source. The primary application is 12V halogen replacement and automotive lighting, though a supply voltage range of 7V to 30V making this part suitable for a wide range of other applications. With a higher supply voltage up to six LEDs can be driven.

Gate driver transistors in SOT23-6

Combining complementary NPN and PNP transistors in the SOT23-6 package, the ZXTC2045E6 from Zetex Semicondustors produces the drive requirement needed to switch high power MOSFETs and IGBTs in power supply designs.

Applications:

- MOSFET and IGBT gate driving

Features:

- Fast switching emitter followers
- No latch up
- No shoot through
- Zero standby current
- Peak current up to 5A
- Separate emitters for independent rise and fall time control

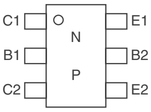

Part number	V_{CEO}	I_C	I_{CM}	h_{FE}		$V_{CE(sat)}$			Gate driver switching times (typ.) C_L=1nF, R_L=1.1Ω, V_{CC}=12V, V_{IN}=10V, R_S=25Ω			
	V	A	A	Min	@I_C A	Max mV	@I_C A	@I_B mA	$t_{d(rise)}$ ns	t_r ns	$t_{d(fall)}$ ns	t_f ns
NPN	30	1.5	5	180	0.1	375	0.75	15	1.8	8.9	1.7	8.9
PNP	-30	-1.5	-5	180	-0.1	-375	-0.75	-15				

Current monitors

Current measurement from a few milliamps to tens of amps can be satisfied by Zetex' current monitor range. In particular the ZXCT1051 is a wide input range current monitor, which operates over a range of input voltages from ground up to V_{CC}-2V. As a result the ZXCT1051 can be used on the high or low side of the load.

Features:

- Accurate down to end current sensing
- Output voltage scaling x10
- 0 to V_{CC}-2V sense input range
- 2.7 to 20V supply range
- 50 µA quiescent current
- 1% typical accuracy

Applications:

- Power supply
- DC motor and solenoid control
- Battery management
- Over current monitor

Typical application circuit

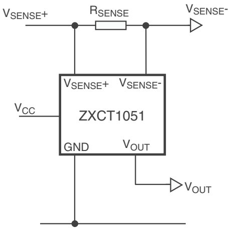

The range also includes the ZXCT1021 with reduced offset voltages and ZXCT1030 which has an internal reference and comparator for enhanced functionality.

Voltage references and shunt regulators

Zetex provides a wide range of references and shunt regulators in industry standard pin-outs. They exhibit lower minimum knee currents than their industry standard counterparts thereby enabling a reduction in power consumption or an increase in temperature ratings.

Features:

- ZR431 — TL431 type shunt with lower knee current and higher output current
- ZR431L — TLV431 type shunt with lower knee current
- ZXRE4041 — LM4041 performance but with lower knee current
- ZR4040 — LM4040 voltages and performance but with lower knee current
- SOT23, TO92 and SOT223 packages
- Available in 0.5% and 1% as well as 2% and 3% tolerances
- ZTL431/2 — TL431/2 pin compatible
- Available in 0.5% and 1% in SOT23 and TO92 packages

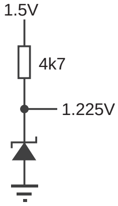

Applications:

- 431 for isolation loop in isolated power supplies
- Low current references for precision supplies in portable/handheld equipment

Low leakage Schottky diodes

Zetex' low leakage Schottky diodes are ideally suited to address applications requiring efficient operation at higher temperatures, often a significant limitation of conventional Schottky types. The ZLLS series diodes are provided in choice of packages which relate directly to die size and I_F performance ensuring that designers have the optimum choice of package size / performance.

Part number	V_R Max V	I_F Max mA	V_F at I_F Max mV	mA	I_R at 30V Max µA	t_{rr} ns	C_D at 30V typ. pF	P_D W	Package
ZLLS2000	40	2.2	540	2000	40	6	65	1.1	SOT23-6
ZLLS1000	40	1.16	560	1000	20	4	26	0.625	SOT23
ZLLS500	40	0.7	530	500	10	3	16	0.5	SOT23
ZLLS400	40	0.52	500	400	10	2.46	15	0.33	SOD323
ZLLS350	40	0.38	1000	275	4	1	3.5	0.36	SOD523

Features:

- V_R = 40V
- Very low V_F at high temperature operation (above 85°C)
- Very low leakage capability in all packages
- High temperature operation of ZLLS diodes complement the existing range of ZHCS series (optimized for operation at lower temperatures)

Applications:

- Automotive power conversion
- DC conversion (telecom DC modules)
- Charging circuits
- High frequency rectification
- Motor control
- Battery powered equipment

High power SOT23 bipolar transistors

This new series of SOT23 transistors utilizes Zetex advanced bipolar process and package design to maximize the power handling and performance. The compact design and ratings of these devices make them ideally suited to applications where space is at a premium.

Features:

- 1.25W power dissipation in SOT23
- NPN and PNP
- V_{CEO} ratings up to 100V
- Pulsed current up to 10A
- Continuous current handling capability up to 4A
- Low saturation voltage

Applications:

- Drivers in automotive, industrial and office automation markets

Part number	Polarity	V_{CEO} V	V_{CEV} V	I_C A	I_{CM} A	h_{FE} min	h_{FE} Max	@ I_C A	$V_{CE(sat)}$ max mV	@I_C A	@I_B mA	P_D W
ZXTN25100BFH	NPN	100	170	3	9	100 50	300 —	0.01 1	80 250	1 3	100 300	1.25
ZXTN25060BFH	NPN	60	150	3.5	10	100 25	300 —	0.01 3.5	65 175	1 3.5	100 350	1.25
ZXTN25050DFH	NPN	50	150	4	10	300 20	900 —	0.01 4	60 210	1 4	100 400	1.25
ZXTP25100BFH	PNP	-100	-140	-2	5	100 15	300 —	-0.01 -2	-130 -295	-1 -2	-100 -200	1.25
ZXTP25060BFH	PNP	-60	-100	-3	9	100 30	300 —	-0.01 -3	-55 -235	-0.5 -3	-50 -300	1.25
ZXTP25040DFH	PNP	-40	-50	-3	5	300 30	750 —	-0.01 -3	-85 -220	-1 -3	-100 -300	1.25

Low Saturation Transistors *RoHS Compliant Parts Available*

up to 25 Volts

QS9000 Accredited!

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
							NPN								
10	35	4.0	300	1200	1000	2	0.19	4000	20	Super E-Line —TO-92	ZTX1047A-ND	1.34	10.04	60.21	379.10
12	12	3.0	400	—	3000	2	0.35	3000	20	Super E-Line —TO-92	ZTX688B-ND	1.21	9.09	60.60	404.00
17.5	50	4.0	300	1200	1000	2	0.21	4000	20	Super E-Line —TO-92	ZTX1048A-ND	1.34	10.04	60.21	379.10
20	20	3.5	300	—	200	2	0.255	3500	50	Super E-Line —TO-92	ZTX618-ND	1.17	8.78	52.65	331.50
	20	3.0	400	—	2000	2	0.5	2000	10	Super E-Line —TO-92	ZTX689B-ND	1.21	9.09	60.60	404.00
25	60	5.0	300	—	1000	1	0.22	5000	100	Super E-Line —TO-92	ZTX869-ND	1.72	12.87	77.22	486.20
	35	2.0	100	300	1000	2	0.5	2000	200	Super E-Line —TO-92	ZTX649-ND	1.09	8.15	54.30	362.00
							PNP								
-12	-15	-4.5	300	1000	500	-1	-0.30	5000	200	Super E-Line —TO-92	ZTX968-ND	1.76	13.23	79.38	499.80
	-15	-4.0	250	850	500	-2	-0.235	4000	70	Super E-Line —TO-92	ZTX1147A-ND	1.42	10.67	63.99	402.90
-15	-20	-3.0	300	800	10	-1	-0.32	2000	20	Super E-Line —TO-92	ZTX788A-ND	1.46	10.98	73.20	488.00
-20	-40	-4.5	100	300	1000	-1	-0.31	5000	300	Super E-Line —TO-92	ZTX948-ND	1.76	13.23	79.38	499.80
	-20	-2.5	300	—	10	-2	-0.26	2500	200	Super E-Line —TO-92	ZTX718-ND	1.13	8.46	50.76	319.60
-25	-25	-3.0	300	800	10	-2	-0.45	2000	20	Super E-Line —TO-92	ZTX789A-ND	1.25	9.41	62.70	418.00
	-30	-3.0	250	800	500	-2	-0.3	3000	70	Super E-Line —TO-92	ZTX1149A-ND	1.42	10.67	63.99	402.90
	-35	-2.0	100	300	1000	-2	-0.5	2000	200	Super E-Line —TO-92	ZTX749-ND	1.13	8.46	56.40	376.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
							NPN									
10	35	5.0	300	1200	1000	2	0.35	5000	25	SOT-223	FZT1047ACT-ND	1.30	.98	FZT1047ATR-ND	1,000	367.20
	35	4.0	300	1200	1000	2	0.35	5000	25	SOT-89	FCX1047ACT-ND	.98	.74	FCX1047ATR-ND	1,000	277.10
12	12	4.0	400	—	3000	2	0.35	3000	20	SOT-223	FZT688BCT-ND	1.31	.99	FZT688BTR-ND	1,000	372.30
	12	3.0	400	—	3000	2	0.40	4000	50	SOT-89	FCX688BCT-ND	.79	.59	FCX688BTR-ND	1,000	222.70
15	40	5.0	300	900	1000	2	0.20	5000	1000	SOT-23-6	ZXT13N15DE6CT-ND	1.17	.88	ZXT13N15DE6TR-ND	3,000	292.50/M
	70	4.5	200	—	10	2	8	100	10	MLP 2 x 2	ZXTAM322TACT-ND	.85	.64	ZXTAM322TATR-ND	3,000	253.80/M
	15	4.0	300	—	10	2	0.014	100	10	SOT-23-6	ZXT10N15DE6TACT-ND	.92	.69	ZXT10N15DE6TATR-ND	3,000	229.50/M
	15	4.0	200	—	3000	2	0.20	3000	50	SOT-89	FCX617CT-ND	.79	.59	FCX617TR-ND	1,000	222.70
	40	3.3	300	900	200	2	0.15	3000	150	SOT-23	ZXT11N15DFCT-ND	.71	.54	ZXT11N15DFTR-ND	3,000	178.50/M
	15	3.0	200	—	3000	2	0.2	3000	50	SOT-23	FMMT617CT-ND	.86	.65	FMMT617TR-ND	3,000	216.00/M
	15	1.5	200	—	1000	2	0.18	1000	10	SOT-323	ZUMT617CT-ND	.43	.33	ZUMT617TR-ND	3,000	129.60/M
17.5	50	5.0	300	1200	1000	2	0.35	5000	25	SOT-223	FZT1048ACT-ND	1.30	.98	FZT1048ATR-ND	1,000	367.20
20	100	10	200	—	10	2	8	100	10	MLP 2 x 2	ZXTBM322TACT-ND	.85	.64	ZXTBM322TATR-ND	3,000	253.80/M
	50	4.5	300	900	1000	2	0.23	4500	45	SOT-23-6	ZXT13N20DE6CT-ND	1.17	.88	ZXT13N20DE6TR-ND	3,000	292.50/M
	20	3.5	200	—	10	2	0.015	100	10	SOT-23-6	ZXT10N20DE6TACT-ND	.92	.69	ZXT10N20DE6TATR-ND	3,000	229.50/M
	20	3.0	400	—	2000	2	0.45	3000	20	SOT-223	FZT689BCT-ND	1.31	.99	FZT689BTR-ND	1,000	372.30
	40	2.5	300	900	100	2	0.13	2500	250	SOT-23	ZXT11N20DFCT-ND	.71	.54	ZXT11N20DFTR-ND	3,000	178.50/M
	20	2.5	200	—	2000	2	0.2	2500	50	SOT-23	FMMT618CT-ND	.86	.65	FMMT618TR-ND	3,000	216.00/M
	20	1.25	200	—	1000	2	0.2	1000	10	SOT-323	ZUMT618CT-ND	.43	.33	ZUMT618TR-ND	3,000	129.60/M
25	60	7.0	300	—	1000	1	0.080	1000	10	SOT-223	ZX5T869GCT-ND	1.44	1.08	ZX5T869GTR-ND	1,000	408.00
	60	7.0	300	—	1000	1	0.075	1000	10	SOT-223	ZXTN2005GCT-ND	1.43	1.08	ZXTN2005GTR-ND	1,000	404.60
	80	6.5	300	—	1000	1	0.215	2000	10	SOT-223	FZT869CT-ND	1.84	1.38	FZT869TR-ND	1,000	520.20
	60	5.5	300	—	1000	1	0.07	1000	10	SOT-89	ZXTN2005ZCT-ND	1.10	.83	ZXTN2005ZTR-ND	1,000	312.80
	35	3.0	100	300	1000	2	0.3	1000	100	SOT-223	FZT649CT-ND	1.21	.91	FZT649TR-ND	1,000	343.40
							PNP									
-12	-15	-6.0	300	1000	500	-1	-0.17	2000	50	SOT-223	FZT968CT-ND	1.84	1.38	FZT968TR-ND	1,000	520.20
	-20	-6.0	300	900	1000	-2	-0.163	6000	60	MSOP-8	ZXT14P12DXCT-ND	4.84	3.63	—	—	—
	-15	-3.0	250	850	500	-2	-0.25	3000	30	SOT-89	FCX1147ACT-ND	.98	.74	FCX1147ATR-ND	1,000	277.10
	-15	-5.0	250	850	500	-2	0.4	5000	50	SOT-223	FZT1147ACT-ND	1.38	1.04	FZT1147ATR-ND	1,000	391.00
	-25	-4.0	300	—	10	-2	-10	100	10	MLP 2 x 2	ZXT1M322TACT-ND	.85	.64	ZXT1M322TATR-ND	3,000	253.80/M
	-20	-4.0	300	900	1000	-2	-0.25	4000	50	SOT-23-6	ZXT13P12DE6CT-ND	1.17	.88	ZXT13P12DE6TR-ND	3,000	292.50/M
	-12	3.0	300	—	10	2	-0.017	100	10	SOT-23-6	ZXT10P12DE6TACT-ND	.92	.69	ZXT10P12DE6TATR-ND	3,000	229.50/M
	-12	-3.0	300	—	100	-2	-0.32	3000	50	SOT-89	FCX717CT-ND	.79	.59	FCX717TR-ND	1,000	222.70
	-12	-2.5	180	—	2500	-2	-0.17	1500	50	SOT-23	FMMT717CT-ND	.92	.69	FMMT717TR-ND	3,000	229.50/M
	-12	-1.25	180	—	1000	2	-0.24	1000	50	SOT-323	ZUMT717CT-ND	.43	.33	ZUMT717TR-ND	3,000	129.60/M
-15	-15	-3.0	300	—	2000	-2	-0.45	2000	10	SOT-223	FZT788BCT-ND	1.31	.99	FZT788BTR-ND	1,000	372.30
-20	-40	-6.0	100	300	1000	-1	-0.18	2000	200	SOT-223	FZT948CT-ND	1.84	1.38	FZT948TR-ND	1,000	520.20
	-25	-5.0	300	900	1000	-2	-0.20	5000	100	MSOP-8	ZXT14P20DXCT-ND	4.84	3.63	ZXT14P20DXTR-ND	1,000	1370.20
	-25	-3.5	300	—	10	-2	-19	100	10	MLP 2 x 2	ZXT2M322TACT-ND	.85	.64	ZXT2M322TATR-ND	3,000	253.80/M
	-25	-3.5	300	900	1000	-2	-0.25	3500	350	SOT-23-6	ZXT13P20DE6CT-ND	1.17	.88	ZXT13P20DE6TR-ND	3,000	292.50/M
	-25	-3.5	300	900	1000	-2	-0.14	1000	10	SOT-23-6	ZX5T2E6CT-ND	1.38	1.04	ZX5T2E6TR-ND	3,000	345.00/M
	-25	-3.5	300	900	1000	-2	-0.14	1000	10	SOT-23-6	ZXTP2006E6CT-ND	.83	.63	ZXTP2006E6TR-ND	3,000	207.00/M
	-20	-2.5	300	—	10	2	-0.030	100	10	SOT-23-6	ZXT10P20DE6TACT-ND	.92	.69	ZXT10P20DE6TATR-ND	3,000	229.50/M
	-20	-2.5	300	—	100	-2	-0.22	1500	50	SOT-89	FCX718CT-ND	.79	.59	FCX718TR-ND	1,000	222.70
	-20	-1.5	150	—	2000	-2	-0.20	1000	20	SOT-23	FMMT718CT-ND	.92	.69	FMMT718TR-ND	3,000	229.50/M
	-20	-1.0	180	—	500	-2	-0.18	500	20	SOT-223	ZUMT718CT-ND	.43	.33	ZUMT718TR-ND	3,000	129.60/M
	-25	-1.0	160	400	500	-1	-0.5	1000	100	SOT-223	BCP6925CT-ND	1.02	.77	BCP6925TR-ND	1,000	289.00
-25	-30	-4.0	250	800	500	-2	0.35	4000	140	SOT-223	FZT1149ACT-ND	1.38	1.04	FZT1149ATR-ND	1,000	391.00
	-30	-3.0	250	800	500	-2	-0.30	3000	100	SOT-89	FCX1149ACT-ND	1.09	.82	FCX1149ATR-ND	1,000	307.70
	-35	-3.0	100	300	1000	-2	-0.3	1000	100	SOT-223	FZT749CT-ND	1.16	.87	FZT749TR-ND	1,000	328.10
	-25	-3.0	300	800	10	-2	-0.19	1000	10	SOT-89	FCX789ACT-ND	.79	.59	FCX789ATR-ND	1,000	222.70
	-25	-2.0	250	—	1000	-2	-0.45	2000	20	SOT-223	FZT789ACT-ND	1.31	.99	FZT789ATR-ND	1,000	372.30

MLP 2 x 2

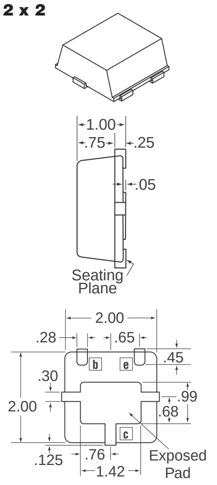

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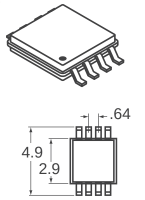

8-MSOP (Single) Pin out

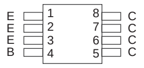

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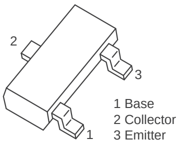

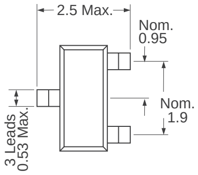

SOT-23-6

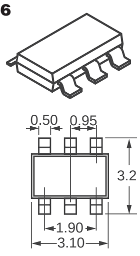

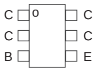

Pin out for SOT23-6

(Continued)

30-50 Volts

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
NPN															
30	80	5	100	300	1000	1	0.22	5000	200	Super E-Line —TO-92	ZTX849-ND	1.72	12.87	77.22	486.20
	80	4	300	1200	1000	2	0.18	2000	10	Super E-Line —TO-92	ZTX1049A-ND	1.34	10.04	60.21	379.10
	50	1	100	300	500	2	0.5	1000	100	Super E-Line —TO-92	ZTX449-ND	.63	4.73	31.50	210.00
40	150	4	300	1200	1000	2	0.21	4000	100	Super E-Line —TO-92	ZTX1051A-ND	1.34	10.04	60.21	379.10
45	45	2	400	—	1000	2	0.5	1000	5	Super E-Line —TO-92	ZTX690B-ND	1.21	9.09	60.60	404.00
	60	1	100	300	150	10	0.25	150	15	Super E-Line —TO-92	ZTX450-ND	.63	4.73	31.50	210.00
PNP															
-30	-50	-4.5	100	300	1000	-1	-0.32	5000	300	Super E-Line —TO-92	ZTX949-ND	1.76	13.23	79.38	499.80
	-35	-1	100	300	500	-2	-0.5	1000	100	Super E-Line —TO-92	ZTX549-ND	.67	5.04	33.60	224.00
-40	-45	-3	250	800	500	-2	-0.23	1800	70	Super E-Line —TO-92	ZTX1151A-ND	1.42	10.67	63.99	402.90
	-50	-2	300	800	10	-2	-0.75	2000	50	Super E-Line —TO-92	ZTX790A-ND	1.25	9.41	62.70	418.00
-45	-60	-1	100	300	150	-10	-0.25	150	15	Super E-Line —TO-92	ZTX550-ND	.67	5.04	33.60	224.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
NPN																
30	80	7.0	100	300	1000	1	0.215	2000	20	SOT-223	FZT849CT-ND	1.84	1.38	FZT849TR-ND	1,000	520.20
	80	7.0	100	300	1000	1	0.065	1000	20	SOT-223	ZX5T849GCT-ND	1.44	1.08	ZX5T849GTR-ND	1,000	408.00
	80	7.0	100	—	10	1	0.18	2000	20	D-PAK	ZXT849KCT-ND	1.80	1.35	ZXT849KTR-ND	2,500	510.00/M
	80	7.0	100	300	1000	1	0.065	1000	20	SOT-223	ZXTN2007GCT-ND	1.43	1.08	ZXTN2007GTR-ND	1,000	404.60
	80	6.0	100	300	1000	1	0.06	1000	20	SOT-89	ZXTN2007ZCT-ND	1.10	.83	ZXTN2007ZTR-ND	1,000	312.80
	80	5.0	300	1200	1000	2	0.33	5000	50	SOT-223	FZT1049ACT-ND	1.30	.98	FZT1049ATR-ND	1,000	367.20
	50	1.0	100	300	500	2	0.5	1000	100	SOT-23	FMMT449CT-ND	.45	.34	FMMT449TR-ND	3,000	135.00/M
	50	1.0	100	300	1000	2	0.3	1000	100	SOT-23	FMMT489CT-ND	.41	.32	FMMT489TR-ND	3,000	124.20/M
40	150	5.0	270	1200	1000	2	0.18	3000	10	SOT-223	FZT1051ACT-ND	1.30	.98	FZT1051ATR-ND	1,000	367.20
	150	3.0	270	1200	1000	2	0.34	5000	100	SOT-89	FCX1051ACT-ND	.98	.74	FCX1051ATR-ND	1,000	277.10
	40	1.0	300	900	500	5	0.5	1000	100	SOT-89	FCX491ACT-ND	.61	.46	FCX491ATR-ND	1,000	171.70
	40	1.0	300	900	500	5	0.3	500	50	SOT-23	FMMT491ACT-ND	.45	.34	FMMT491ATR-ND	3,000	135.00/M
45	60	3.0	400	—	1000	2	0.35	3000	150	D-PAK	ZXT690BKCT-ND	1.26	.95	ZXT690BKTR-ND	2,500	357.00/M
	45	2.0	400	150	2000	2	0.30	1000	5	SOT-89	FCX690BCT-ND	.79	.59	FCX690BTR-ND	1,000	222.70
	45	2.0	400	—	1000	2	0.1	100	0.5	SOT-223	FZT690BCT-ND	1.31	.99	FZT690BTR-ND	1,000	372.30
	75	0.80	250	630	100	1	0.3	100	10	SOT-23	BCW66HCT-ND	.36	.27	BCW66HTR-ND	3,000	108.00/M
	50	0.50	100	600	100	1	0.62	500	50	SOT-23	BCX19CT-ND	.36	.27	BCX19TR-ND	3,000	108.00/M
50	150	4.0	20	—	4000	2	0.060	1000	100	SOT-23	ZXTN25050DFHCT-ND ***NEW!***	.79	.60	ZXTN25050DFHTR-ND ***NEW!***	3,000	238.00/M
	100	4.0	300	900	1000	2	0.23	4000	100	SOT-23-6	ZXT13N50DE6CT-ND	1.17	.88	ZXT13N50DE6TR-ND	3,000	292.50/M
	50	3.0	200	—	10	2	0.02	100	10	SOT-23-6	ZXT10N50DE6TACT-ND	.92	.69	ZXT10N50DE6TATR-ND	3,000	229.50/M
	50	2.0	200	—	1000	2	0.35	3000	100	SOT-89	FCX619CT-ND	.79	.59	FCX619TR-ND	1,000	222.70
	50	2.0	100	—	2000	2	0.2	1000	10	SOT-23	FMMT619CT-ND	.86	.65	FMMT619TR-ND	3,000	216.00/M
	50	1.0	200	—	500	5	0.18	500	25	SOT-323	ZUMT619CT-ND	.43	.33	ZUMT619TR-ND	3,000	129.60/M
PNP																
-30	-50	-5.5	100	300	1000	-1	-0.27	2000	200	SOT-223	FZT949CT-ND	1.84	1.38	FZT949TR-ND	1,000	520.20
	-50	-5.5	100	300	1000	-1	-0.085	1000	20	SOT-223	ZX5T949GCT-ND	1.44	1.08	ZX5T949GTR-ND	1,000	408.00
	-50	-5.5	100	300	1000	-1	-0.085	1000	20	SOT-223	ZXTP2008GCT-ND	1.43	1.08	ZXTP2008GTR-ND	1,000	404.60
	-50	-5.5	100	300	1000	-1	-0.08	1000	20	SOT-89	ZXTP2008ZCT-ND	1.10	.83	ZXTP2008ZTR-ND	1,000	312.80
	-50	-1.0	100	300	500	-2	-0.35	1000	100	SOT-89	FCX589CT-ND	.61	.46	FCX589TR-ND	1,000	171.70
	-50	-1.0	100	300	500	-2	-0.35	1000	100	SOT-23	FMMT589CT-ND	.46	.35	FMMT589TR-ND	3,000	138.60/M
	-35	-1.0	100	300	500	-2	-0.5	1000	100	SOT-23	FMMT549CT-ND	.45	.34	FMMT549TR-ND	3,000	135.00/M
	-35	-1.0	100	300	500	-5	-0.5	1000	100	SOT-223	FZT549CT-ND	1.09	.82	FZT549TR-ND	1,000	309.40
-40	-50	-5.5	200	550	500	-2	-0.165	1000	10	SOT-89	ZX5T3ZCT-ND	.90	.68	ZX5T3ZTR-ND	1,000	255.00
	-50	-5.5	200	550	500	-2	-0.165	1000	10	SOT-89	ZXTP2009ZCT-ND	.83	.63	ZXTP2009ZTR-ND	1,000	234.60
	-50	-4.0	300	900	1000	-2	-0.16	4000	200	MSOP-8	ZXT14P40DXCT-ND	4.84	3.63	—	—	—
	-45	-3.0	250	800	500	-2	-0.30	3000	250	SOT-89	FCX1151ACT-ND	.98	.74	FCX1151ATR-ND	1,000	277.10
	-45	-3.0	250	800	500	-2	-0.3	3000	250	SOT-223	FZT1151ACT-ND	1.38	1.04	FZT1151ATR-ND	1,000	391.00
	-50	-3.0	300	900	1000	-2	-0.24	3000	300	SOT-23-6	ZXT13P40DE6CT-ND	1.17	.88	ZXT13P40DE6TR-ND	3,000	292.50/M
	-45	-3.0	30	—	3000	-2	-0.065	1000	100	SOT-23	ZXTP25040DFHCT-ND ***NEW!***	.79	.60	ZXTP25040DFHTR-ND ***NEW!***	3,000	238.00/M
	-50	-3.0	300	800	10	-2	-0.45	2000	50	D-PAK	ZXT790AKCT-ND	1.26	.95	ZXT790AKTR-ND	2,500	357.00/M
	-50	-2.0	200	—	1000	-2	-0.350	1000	10	SOT-89	FCX790ACT-ND	.79	.59	FCX790ATR-ND	1,000	222.70
	-50	-2.0	200	—	1000	-2	-0.350	1000	10	SOT-89	FCX790ACT-ND	.79	.59	FCX790ATR-ND	1,000	222.70
	-50	-2.0	250	—	500	-2	-0.45	1000	10	SOT-223	FZT790ACT-ND	1.31	.99	FZT790ATR-ND	1,000	372.30
	-40	-2.0	300	—	10	-2	-0.040	100	10	SOT-23-6	ZXT10P40DE6TACT-ND	.92	.69	ZXT10P40DE6TATR-ND	3,000	229.50/M
	-40	-1.5	150	—	1000	-2	-0.25	1000	50	SOT-23	FMMT720CT-ND	.92	.69	FMMT720TR-ND	3,000	229.50/M
	-40	-1.0	180	—	500	-5	-0.3	500	25	SOT-323	ZUMT720CT-ND	.43	.33	ZUMT720TR-ND	3,000	129.60/M
	-40	-1.0	300	800	100	-5	-0.35	500	20	SOT-89	FCX591ACT-ND	.61	.46	FCX591ATR-ND	1,000	171.70
	-40	-1.0	300	800	100	-5	-0.35	500	20	SOT-23	FMMT591ACT-ND	.46	.35	FMMT591ATR-ND	3,000	138.60/M
-45	-60	-0.80	250	630	100	-1	-0.3	100	10	SOT-23	BCW68HCT-ND	.36	.27	BCW68HTR-ND	3,000	108.00/M
	-50	-0.80	100	600	100	-1	-0.62	500	50	SOT-23	BCX17CT-ND	.36	.27	BCX17TR-ND	3,000	108.00/M

ZETEX SEMICONDUCTORS ***QS9000 Accredited!***

SOT-89

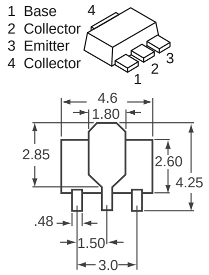

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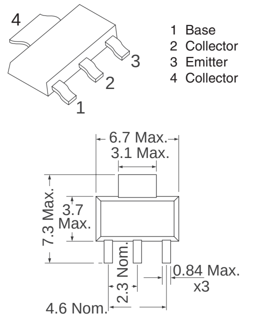

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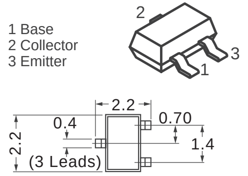

Super E-Line — TO-92

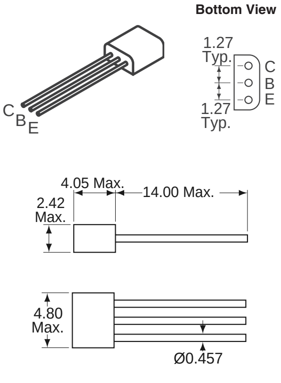

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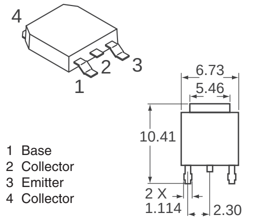

ZETEX SEMICONDUCTORS Medium Power Transistors *RoHS Compliant Parts Available*

60-100 Volts

ZETEX SEMICONDUCTORS *QS9000 Accredited!*

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE}				V_{CE} (sat)			Packaging Type	Digi-Key Part No.	Loose Piece Pricing			
			Min.	Max.	(mA)	(V)	Max. (V)	@I_C (mA)	@I_B (mA)			1	10	100	1,000
										NPN					
60	150	5.0	100	300	2000	1	0.25	5000	200	Super E-Line — TO-92	ZTX851-ND	1.72	12.87	77.22	486.20
	150	4.5	100	300	2000	1	0.03	100	5	Super E-Line — TO-92	ZX5T851A-ND	1.38	10.35	62.10	391.00
	150	4.5	100	300	2000	1	0.065	1000	50	Super E-Line — TO-92	ZXTN2010A-ND	1.43	10.71	64.26	404.60
	150	4.5	100	300	2000	1	0.065	1000	50	Super E-Line — TO-92	ZXTN2010ASTZ-ND	1.43	10.71	64.26	404.60
	80	2.0	100	300	500	2	0.5	2000	200	Super E-Line — TO-92	ZTX651-ND	1.09	8.15	54.30	362.00
	80	1.0	50	150	150	10	0.35	150	15	Super E-Line — TO-92	ZTX451-ND	.63	4.73	31.50	210.00
70	70	1.0	400	—	500	2	0.5	1000	10	Super E-Line — TO-92	ZTX692B-ND	1.21	9.09	60.60	404.00
75	150	3.0	300	1200	1000	2	0.25	3000	100	Super E-Line — TO-92	ZTX1053A-ND	1.34	10.04	60.21	379.10
100	200	4.0	100	300	2000	2	0.20	4000	400	Super E-Line — TO-92	ZTX853-ND	1.72	12.87	77.22	486.20
	120	2.0	100	300	500	2	0.5	2000	200	Super E-Line — TO-92	ZTX653-ND	1.09	8.15	54.30	362.00
	120	1.0	40	200	150	10	0.7	150	15	Super E-Line — TO-92	ZTX453-ND	.63	4.73	31.50	210.00
										PNP					
-60	-100	-3.5	100	300	1000	-1	-0.065	1000	100	Super E-Line — TO-92	ZXTP2012A-ND	1.01	7.56	45.36	285.60
	-100	-4.0	100	300	1000	-1	-0.30	4000	400	Super E-Line — TO-92	ZTX951-ND	1.76	13.23	79.38	499.80
	-80	-2.0	100	300	500	-2	-0.5	2000	200	Super E-Line — TO-92	ZTX751-ND	1.13	8.46	56.40	376.00
	-80	-1.0	50	150	150	-10	-0.35	150	15	Super E-Line — TO-92	ZTX551-ND	.67	5.04	33.60	224.00
-70	-75	-2.0	300	800	10	-2	-0.5	1000	25	Super E-Line — TO-92	ZTX792A-ND	1.25	9.41	62.70	418.00
-100	-140	-3.5	100	300	1000	-1	-0.33	4000	400	Super E-Line — TO-92	ZTX953-ND	1.76	13.23	79.38	499.80
	-120	-2.0	100	300	500	-2	-0.5	2000	200	Super E-Line — TO-92	ZTX753-ND	1.13	8.46	56.40	376.00
	-120	-1.0	40	200	150	-10	-0.25	150	15	Super E-Line — TO-92	ZTX553-ND	.67	5.04	33.60	224.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE}				V_{CE} (sat)			Packaging Type	Digi-Key Part No.	Cut Tape Price Each		Digi-Key Part No.	Tape & Reel	
			Min.	Max.	(mA)	(V)	Max. (V)	@I_C (mA)	@I_B (mA)			1	10		Size	Pricing
										NPN						
60	150	6.0	100	300	2000	1	-0.17	2000	50	SOT-223	FZT851CT-ND	1.84	1.38	FZT851TR-ND	1,000	520.20
	150	6.0	100	300	2000	1	-0.03	100	5	SOT-223	ZX5T851GCT-ND	1.46	1.10	ZX5T851GTR-ND	1,000	414.80
	150	6.0	100	300	2000	1	-0.07	1000	50	SOT-223	ZXTN2010GCT-ND	1.43	1.08	ZXTN2010GTR-ND	1,000	404.60
	150	5.0	100	300	2000	1	-0.055	1000	100	SOT-89	ZX5T851ZCT-ND	1.10	.83	ZX5T851ZTR-ND	1,000	312.80
	150	5.0	100	300	2000	1	-0.065	1000	50	SOT-89	ZXTN2010ZCT-ND	1.10	.83	ZXTN2010ZTR-ND	1,000	312.80
	150	3.5	25	—	.0035	2	-0.040	500	50	SOT-23	ZXTN25060BFHCT-ND ***NEW!***	.79	.60	ZXTN25060BFHTR-ND ***NEW!***	3,000	238.00/M
	80	3.0	100	300	500	2	-0.3	1000	100	SOT-223	FZT651CT-ND	1.21	.91	FZT651TR-ND	1,000	343.40
	80	1.0	100	300	500	5	-0.5	1000	100	SOT-89	FCX491CT-ND	.61	.46	FCX491TR-ND	1,000	171.70
	80	1.0	100	300	500	5	-0.3	500	50	SOT-23	FMMT491CT-ND	.45	.34	FMMT491TR-ND	3,000	135.00/M
	80	1.0	100	300	500	5	-0.25	500	50	SOT-223	FZT491CT-ND	1.09	.82	FZT491TR-ND	1,000	309.40
	80	1.0	50	150	150	10	-0.35	150	15	SOT-23	FMMT451CT-ND	.45	.34	FMMT451TR-ND	3,000	135.00/M
70	70	1.0	400	—	500	2	-0.15	100	0.5	SOT-223	FZT692BCT-ND	1.31	.99	FZT692BTR-ND	1,000	372.30
75	150	5.0	260	—	10	2	-0.095	1000	100	D-PAK	ZXT1053AKCT-ND	1.44	1.08	ZXT1053AKTR-ND	2,500	408.00/M
	150	4.5	300	1200	500	2	-0.21	2000	100	SOT-223	FZT1053ACT-ND	1.30	.98	FZT1053ATR-ND	1,000	367.20
	150	3.0	270	1200	1000	2	-0.25	3000	100	SOT-89	FCX1053ACT-ND	.98	.74	FCX1053ATR-ND	1,000	277.10
80	100	1.0	100	250	150	2	-0.5	500	50	SOT-89	BCX5616CT-ND	.49	.37	BCX5616TR-ND	1,000	139.40
	80	1.5	300	900	200	2	-0.20	1500	50	SOT-23	FMMT620CT-ND	.86	.65	FMMT620TR-ND	3,000	216.00/M
	80	0.50	50	—	100	10	-0.25	100	10	SOT-23	FMMTA06CT-ND	.42	.32	FMMTA06TR-ND	3,000	126.00/M
100	200	6.0	100	300	2000	2	-0.15	2000	100	SOT-223	FZT853CT-ND	1.84	1.38	FZT853TR-ND	1,000	520.20
	200	6.0	100	300	2000	2	-0.065	1000	100	SOT-223	ZX5T853GCT-ND	1.44	1.08	ZX5T853GTR-ND	1,000	408.00
	200	6.0	100	300	2000	2	-0.065	1000	100	SOT-223	ZXTN2011GCT-ND	1.43	1.08	ZXTN2011GTR-ND	1,000	404.60
	200	4.5	100	300	2000	2	-0.06	1000	100	SOT-89	ZXTN2011ZCT-ND	1.10	.83	ZXTN2011ZTR-ND	1,000	312.80
	170	3.0	—	—	3000	2	-0.055	500	50	SOT-23	ZXTN25100BFHCT-ND ***NEW!***	.79	.60	ZXTN25100BFHTR-ND ***NEW!***	3,000	238.00/M
	120	2.0	100	300	500	2	-0.3	1000	100	SOT-223	FZT653CT-ND	1.21	.91	FZT653TR-ND	1,000	343.40
	120	1.0	100	300	250	10	-0.3	500	50	SOT-89	FCX493CT-ND	.61	.46	FCX493TR-ND	1,000	171.70
	120	1.0	100	300	250	10	-0.25	500	50	SOT-23	FMMT493CT-ND	.45	.34	FMMT493TR-ND	3,000	135.00/M
	120	1.0	100	300	250	10	-0.3	500	50	SOT-223	FZT493CT-ND	1.09	.82	FZT493TR-ND	1,000	309.40
										PNP						
-60	-100	-6.0	100	—	10	-1	-0.09	1000	100	D-PAK	ZXT951KCT-ND	2.94	2.21	ZXT951KTR-ND	2,500	833.00/M
	-100	-5.5	100	300	2000	-1	-0.07	1000	100	SOT-223	ZX5T951GCT-ND	1.44	1.08	ZX5T951GTR-ND	1,000	408.00
	-100	-5.5	100	300	2000	-1	-0.07	1000	100	SOT-223	ZXTP2012GCT-ND	1.43	1.08	ZXTP2012GTR-ND	1,000	404.60
	-100	-5.0	100	300	2000	-1	-0.21	2000	200	SOT-223	FZT951CT-ND	1.84	1.38	FZT951TR-ND	1,000	520.20
	-100	-4.3	100	300	2000	-1	-0.065	1000	100	SOT-89	ZX5T951ZCT-ND	1.10	.83	ZX5T951ZTR-ND	1,000	312.80
	-100	-3.0	30	—	3000	-2	-0.055	500	50	SOT-23	ZXTP25060BFHCT-ND ***NEW!***	.79	.60	ZXTP25060BFHTR-ND ***NEW!***	3,000	238.00/M
	-100	-4.3	100	300	2000	-1	-0.065	1000	100	SOT-89	ZXTP2012ZCT-ND	1.10	.83	ZXTP2012ZTR-ND	1,000	312.80
	-80	-3.0	100	300	500	-2	-0.3	1000	100	SOT-223	FZT751CT-ND	1.16	.87	FZT751TR-ND	1,000	328.10
	-80	-1.0	100	300	500	-5	-0.6	1000	100	SOT-89	FCX591CT-ND	.61	.46	FCX591TR-ND	1,000	171.70
	-80	-1.0	100	300	500	-5	-0.3	500	50	SOT-23	FMMT591CT-ND	.46	.35	FMMT591TR-ND	3,000	138.60/M
	-80	-1.0	100	300	500	-5	-0.3	500	50	SOT-223	FZT591CT-ND	1.09	.82	FZT591TR-ND	1,000	309.40
-70	-75	-2.0	250	—	500	-2	-0.5	1000	25	SOT-223	FZT792ACT-ND	1.31	.99	FZT792ATR-ND	1,000	372.30
	-70	-1.5	150	—	1000	-5	-0.30	500	20	SOT-23	FMMT722CT-ND	.92	.69	FMMT722TR-ND	3,000	229.50/M
	-80	-1.0	50	150	150	-10	-0.35	150	15	SOT-23	FMMT551CT-ND	.45	.34	FMMT551TR-ND	3,000	135.00/M
	-70	-1.0	100	300	100	-1	-0.25	150	15	SOT-223	BSP31CT-ND	2.09	1.58	—	—	—
	-70	-1.0	100	300	100	-5	-0.5	500	50	SOT-89	BSR31CT-ND	.99	.75	—	—	—
-80	-100	-1.0	100	250	150	-2	-0.5	500	50	SOT-89	BCX5316CT-ND	.49	.37	BCX5316TR-ND	1,000	139.40
	-80	-0.50	50	—	100	-1	-0.25	100	10	SOT-23	FMMTA56CT-ND	.42	.32	FMMTA56TR-ND	3,000	126.00/M
-100	-140	-5.0	100	300	1000	-1	-0.22	2000	200	SOT-223	FZT953CT-ND	1.84	1.38	FZT953TR-ND	1,000	520.20
	-140	-5.0	100	—-	10	-1	-0.1	-1000	100	D-PAK	ZXT953KCT-ND	1.80	1.35	ZXT953KTR-ND	2,500	510.00/M
	-140	-5.0	100	300	1000	-1	-0.09	1000	100	SOT-223	ZX5T953GCT-ND	1.44	1.08	ZX5T953GTR-ND	1,000	408.00
	-140	-5.0	100	300	1000	-1	-0.09	1000	100	SOT-223	ZXTP2013GCT-ND	1.43	1.08	ZXTP2013GTR-ND	1,000	404.60
	-140	-3.5	100	300	1000	-1	-0.085	1000	100	SOT-89	ZXTP2013ZCT-ND	1.10	.83	ZXTP2013ZTR-ND	1,000	312.80
	-140	-2.0	15	—	2000	-2	-0.090	500	50	SOT-23	ZXTP25100BFHCT-ND ***NEW!***	.79	.60	ZXTP25100BFHTR-ND ***NEW!***	3,000	238.00/M
	-120	-2.0	100	300	500	-2	-0.3	1000	100	SOT-223	FZT753CT-ND	1.16	.87	FZT753TR-ND	1,000	328.10
	-120	-1.0	100	300	500	-5	-0.3	500	50	SOT-89	FCX593CT-ND	.61	.46	FCX593TR-ND	1,000	171.70
	-120	-1.0	100	300	500	-10	-0.3	500	50	SOT-23	FMMT593CT-ND	.46	.35	FMMT593TR-ND	3,000	138.60/M
	-120	-1.0	100	300	500	-2	-0.3	500	50	SOT-223	FZT593CT-ND	1.09	.82	FZT593TR-ND	1,000	309.40
	-100	-1.0	250	—	500	-10	-0.20	500	50	SOT-23	FMMT723CT-ND	.92	.69	FMMT723TR-ND	3,000	229.50/M

SOT-23

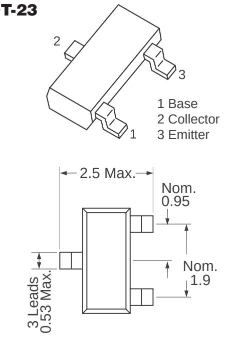

SOT-89

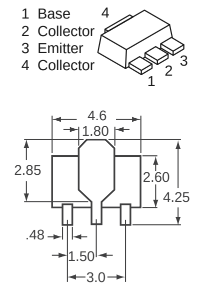

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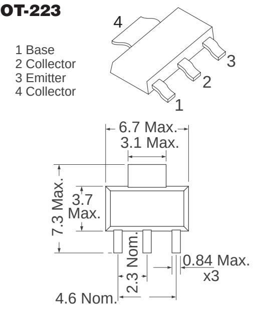

Super E-Line — TO-92

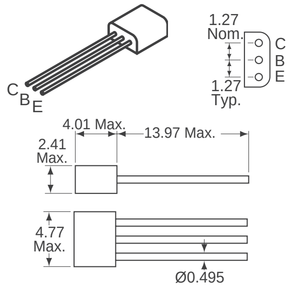

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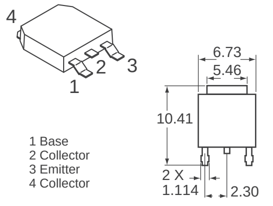

ZETEX SEMICONDUCTORS

High Voltage Transistors

ZETEX SEMICONDUCTORS **QS9000 Accredited!**

C

120-250 Volts

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
NPN															
120	175	3	300	1200	1000	10	0.31	3000	150	Super E-Line —TO-92	ZTX1055A-ND	1.34	10.04	60.21	379.10
	120	0.5	400	—	200	2	0.5	400	5	Super E-Line —TO-92	ZTX694B-ND	1.21	9.09	60.60	404.00
140	160	1	100	300	150	10	0.7	150	15	Super E-Line —TO-92	ZTX455-ND	.63	4.73	31.50	210.00
150	250	4	100	300	1000	5	0.26	4000	400	Super E-Line —TO-92	ZTX855-ND	1.72	12.87	77.22	486.20
	150	1	50	—	500	5	0.5	1000	200	Super E-Line —TO-92	ZTX655-ND	1.09	8.15	54.30	362.00
160	200	3	300	1200	500	10	0.3	3000	200	Super E-Line —TO-92	ZTX1056A-ND	1.34	10.04	60.21	379.10
180	180	0.5	500	—	100	5	0.25	200	5	Super E-Line —TO-92	ZTX696B-ND	1.21	9.09	60.60	404.00
PNP															
-140	-140	-0.5	300	800	10	-2	-0.3	200	5	Super E-Line —TO-92	ZTX795A-ND	1.25	9.41	62.70	418.00
-150	-150	-1	50	—	500	-5	-0.5	1000	200	Super E-Line —TO-92	ZTX755-ND	1.13	8.46	56.40	376.00
	-160	-1	50	300	300	-10	-0.3	100	10	Super E-Line —TO-92	ZTX555-ND	.67	5.04	33.60	224.00
-200	-220	-2	100	300	1000	-5	-0.25	2000	400	Super E-Line —TO-92	ZTX956-ND	1.76	13.23	79.38	499.80
	-200	-1	50	—	500	-5	-0.5	500	50	Super E-Line —TO-92	ZTX776-ND	.67	5.04	33.60	224.00
	-200	-1	50	300	300	-10	-0.3	100	10	Super E-Line —TO-92	ZTX576-ND	.67	5.04	33.60	224.00
	-200	-0.5	300	800	10	-10	-0.3	200	20	Super E-Line —TO-92	ZTX796A-ND	1.25	9.41	62.70	418.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
NPN																
120	120	1.0	400	—	200	2	0.25	100	0.5	SOT-223	FZT694BCT-ND	1.31	.99	FZT694BTR-ND	1,000	372.30
	140	1.000	100	300	250	10	0.2	250	25	SOT-23	FMMT494CT-ND	.45	.34	FMMT494TR-ND	3,000	135.00/M
125	125	1.000	100	—	1000	10	0.25	1000	50	SOT-23	FMMT624CT-ND	.86	.65	FMMT624TR-ND	3,000	216.00/M
150	200	5.0	100	300	1000	5	0.11	1000	100	SOT-223	FZT855CT-ND	1.84	1.38	FZT855TR-ND	1,000	520.20
	150	1.0	50	—	500	5	0.5	500	50	SOT-223	FZT655CT-ND	1.21	.91	FZT655TR-ND	1,000	343.40
	170	.100	100	300	250	10	0.3	500	50	SOT-89	FCX495CT-ND	.61	.46	FCX495TR-ND	1,000	171.70
	150	1.000	300	—	200	10	0.3	1000	50	SOT-23	FMMT625CT-ND	.86	.65	FMMT625TR-ND	3,000	216.00/M
	170	1.000	100	300	250	10	0.2	250	25	SOT-23	FMMT495CT-ND	.45	.34	FMMT495TR-ND	3,000	135.00/M
180	180	0.5	500	—	100	5	0.25	200	5	SOT-223	FZT696BCT-ND	1.31	.99	FZT696BTR-ND	1,000	372.30
250	300	.500	40	—	20	10	0.5	50	4	SOT-89	BST40CT-ND	.99	.75	BST40TR-ND	1,000	280.50
PNP																
-140	-180	-4.0	100	300	1000	-5	-0.15	1000	100	SOT-223	FZT955CT-ND	1.84	1.38	FZT955TR-ND	1,000	520.20
	-180	-4.0	100	300	1000	-5	-0.12	1000	100	SOT-223	ZX5T955GCT-ND	1.44	1.08	ZX5T955GTR-ND	1,000	408.00
	-180	4.0	100	300	1000	-5	-0.12	1000	100	SOT-223	ZXTP2014GCT-ND	1.43	1.08	ZXTP2014GTR-ND	1,000	404.60
	-180	3.0	100	300	1000	-5	-0.115	1000	100	SOT-89	ZXTP2014ZCT-ND	1.10	.83	ZXTP2014ZTR-ND	1,000	312.80
	-140	-0.5	250	—	200	-2	-0.3	200	5	SOT-223	FZT795ACT-ND	1.31	.99	FZT795ATR-ND	1,000	372.30
-150	-150	-1.0	50	—	500	-5	-0.5	500	50	SOT-223	FZT755CT-ND	1.16	.87	FZT755TR-ND	1,000	328.10
-200	-220	-2.0	100	300	1000	-5	-0.165	1000	100	SOT-223	FZT956CT-ND	1.84	1.38	FZT956TR-ND	1,000	520.20
	-220	-.300	85	300	250	-10	-0.35	250	25	SOT-89	FCX596CT-ND	.61	.46	FCX596TR-ND	1,000	171.70
	-220	-.500	100	300	250	-10	-0.35	250	25	SOT-23	FMMT596CT-ND	.46	.35	FMMT596TR-ND	3,000	138.60/M
	-200	-0.5	250	—	300	-10	-0.3	200	20	SOT-223	FZT796ACT-ND	1.31	.99	FZT796ATR-ND	1,000	372.30

300-500 Volts

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
NPN															
300	330	3	100	300	500	10	0.25	3000	600	Super E-Line —TO-92	ZTX857-ND	1.72	12.87	77.22	486.20
	300	0.5	50	—	100	5	0.5	100	10	Super E-Line —TO-92	ZTX657-ND	1.09	8.15	54.30	362.00
	300	0.5	50	300	50	10	0.3	100	10	Super E-Line —TO-92	ZTX457-ND	.63	4.73	31.50	210.00
400	400	0.5	50	—	100	5	0.5	100	10	Super E-Line —TO-92	ZTX658-ND	1.09	8.15	54.30	362.00
	400	0.3	100	300	50	10	0.5	50	6	Super E-Line —TO-92	ZTX458-ND	.63	4.73	31.50	210.00
PNP															
-300	-300	-1	100	300	500	-10	-0.20	1000	300	Super E-Line —TO-92	ZTX957-ND	1.76	13.23	79.38	499.80
	-300	-0.5	50	—	100	-5	-0.5	100	10	Super E-Line —TO-92	ZTX757-ND	1.13	8.46	56.40	376.00
	-300	-0.5	50	300	50	-10	-0.3	50	5	Super E-Line —TO-92	ZTX557-ND	.67	5.04	33.60	224.00
-400	-400	-0.5	100	300	500	-10	-0.40	500	100	Super E-Line —TO-92	ZTX958-ND	1.76	13.23	79.38	499.80
	-400	-0.5	50	—	100	-5	-0.5	100	10	Super E-Line —TO-92	ZTX758-ND	1.13	8.46	56.40	376.00
	-400	-0.2	100	300	50	-10	-0.5	50	6	Super E-Line —TO-92	ZTX558-ND	.67	5.04	33.60	224.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
NPN																
300	300	0.05	50	—	25	20	0.6	30	5	SOT-223	BF720CT-ND	1.99	1.50	—	—	—
	350	3.5	100	300	1000	5	0.23	2000	200	SOT-223	FZT857CT-ND	1.84	1.38	FZT857TR-ND	1,000	520.20
	300	0.5	50	—	100	5	0.5	100	10	SOT-223	FZT657CT-ND	1.21	.91	FZT657TR-ND	1,000	343.40
	300	.200	40	—	30	10	0.5	20	2.0	SOT-23	FMMTA42CT-ND	.42	.32	FMMTA42TR-ND	3,000	126.00/M
	300	.500	100	300	100	10	0.2	100	10	SOT-23	FMMT497CT-ND	.49	.37	FMMT497TR-ND	3,000	145.80/M
350	400	.500	40	—	20	10	0.5	50	4	SOT-89	BST39CT-ND	.49	.37	BST39TR-ND	1,000	139.40
400	400	.500	35	—	200	10	0.2	100	10	SOT-89	FCX658ACT-ND	.85	.64	FCX658ATR-ND	1,000	241.40
	400	0.5	50	—	100	5	0.5	100	10	SOT-223	FZT658CT-ND	1.19	.90	FZT658TR-ND	1,000	338.30
	400	.225	100	300	50	10	0.5	50	6	SOT-89	FCX458CT-ND	.98	.74	FCX458TR-ND	1,000	277.10
	400	.225	100	300	50	10	0.2	20	2	SOT-23	FMMT458CT-ND	.53	.40	FMMT458TR-ND	3,000	158.40/M
450	500	.150	50	—	30	10	0.075	20	2.0	SOT-23	FMMT459TACT-ND	.71	.54	FMMT459TATR-ND	3,000	206.50/M
PNP																
-300	-300	-1.0	100	300	500	-10	-0.24	1000	300	SOT-223	FZT957CT-ND	1.84	1.38	FZT957TR-ND	1,000	520.20
	-300	-0.5	50	—	100	-5	-0.5	100	10	SOT-223	FZT757CT-ND	1.16	.87	FZT757TR-ND	1,000	328.10
	-300	-.200	100	—	100	-10	-0.25	100	20	SOT-23	FMMT597CT-ND	.49	.37	FMMT597TR-ND	3,000	145.80/M
	-300	-.200	25	—	30	-10	-0.5	20	2	SOT-23	FMMTA92CT-ND	.42	.32	FMMTA92TR-ND	3,000	126.00/M
-400	-400	-0.5	100	300	500	-10	-0.40	500	100	SOT-223	FZT958CT-ND	1.84	1.38	FZT958TR-ND	1,000	520.20
	-400	-0.5	50	—	100	-5	-0.5	100	10	SOT-223	FZT758CT-ND	1.19	.90	FZT758TR-ND	1,000	338.30
	-400	-.200	100	300	50	-10	-0.5	50	6	SOT-89	FCX558CT-ND	.63	.48	FCX558TR-ND	1,000	178.50
	-400	-.150	100	300	50	-10	-0.2	20	2	SOT-23	FMMT558CT-ND	.58	.44	FMMT558TR-ND	3,000	172.80/M
-500	-500	-.500	80	—	50	-10	-0.2	20	2	SOT-23	FMMT560CT-ND	.64	.49	FMMT560TR-ND	3,000	192.60/M

SOT-23

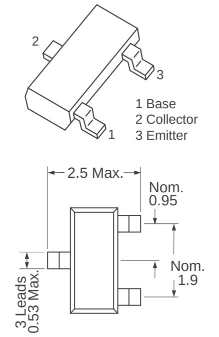

SOT-89

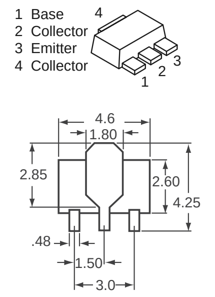

SOT-223

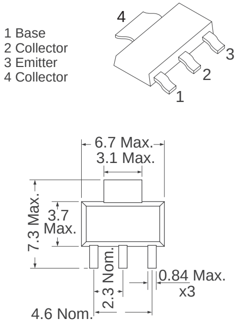

Super E-Line — TO-92

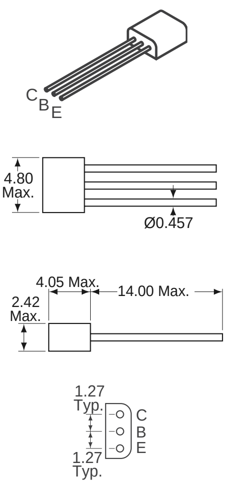

Darlington

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
NPN															
80	100	1.0	2K	100K	1000	5	1.0	1000	1	Super E-Line —TO-92	ZTX603-ND	1.09	8.15	54.30	362.00
100	120	0.8	10K	—	500	5	1.25	800	8	Super E-Line —TO-92	ZTX614-ND	.67	5.04	33.60	224.00
120	140	1.0	2K	100K	1000	5	1.5	1000	1	Super E-Line —TO-92	ZTX605-ND	1.09	8.15	54.30	362.00
160	180	1.0	2K	100K	500	10	1.2	1000	10	Super E-Line —TO-92	ZTX601-ND	1.09	8.15	54.30	362.00
			10K	100K	500	10	1.2	1000	10	Super E-Line —TO-92	ZTX601B-ND	1.09	8.15	54.30	362.00
PNP															
-120	-140	-1.0	3K	30K	1000	-5	-1.3	1000	1	Super E-Line —TO-92	ZTX705-ND	1.13	8.46	56.40	376.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
NPN																
30	40	0.5	20K	—	100	5	1.0	100	0.1	SOT-89	BCV29CT-ND	.99	.75	BCV29TR-ND	1,000	280.50
	30	0.3	5K	—	10	5	1.5	100	0.1	SOT-23	FMMTA13CT-ND	.42	.32	FMMTA13TR-ND	3,000	126.00/M
	30	0.3	10K	—	10	5	1.5	100	0.1	SOT-23	FMMTA14CT-ND	.42	.32	FMMTA14TR-ND	3,000	126.00/M
	30	1.0	5K	—	1000	5	1.6	1000	1	SOT-223	FZTA14CT-ND	1.00	.75	FZTA14TR-ND	1,000	282.20
60	80	0.3	10K	—	500	5	1.25	800	8.0	SOT-23	FMMT38CCT-ND	.44	.33	FMMT38CTR-ND	3,000	131.40/M
		0.5	1K	—	150	10	1.3	500	.5	SOT-89	BST51CT-ND	.99	.75	BST51TR-ND	1,000	280.50
80	100	2.0	5K	100K	500	5	1.0	1000	1	SOT-223	FZT603CT-ND	1.21	.91	FZT603TR-ND	1,000	343.40
	90	0.5	2K	—	500	10	1.3	500	0.5	SOT-89	BST52CT-ND	.49	.37	BST52TR-ND	1,000	139.40
100	120	0.5	5K	—	500	5	1.0	500	5	SOT-23	FMMT614CT-ND	.56	.42	FMMT614TR-ND	3,000	167.40/M
120	140	2.0	5K	—	500	5	1.0	250	0.25	SOT-223	FZT605CT-ND	1.21	.91	FZT605TR-ND	1,000	343.40
140	160	2.0	1K	—	1000	10	1.2	1000	10	SOT-223	FZT600CT-ND	1.21	.91	FZT600TR-ND	1,000	343.40
PNP																
-30	-30	-0.5	10K	—	10	-5	-1.5	100	0.1	SOT-23	FMMTA63CT-ND	.91	.69	FMMTA63TR-ND	3,000	273.60/M
-100	-100	-0.8	15K	—	1000	-5	-1.05	1000	5	SOT-23	FMMT734CT-ND	.92	.69	FMMT734TR-ND	3,000	260.10/M
-120	-140	-2.0	3K	30K	1000	-5	-1.3	1000	1	SOT-223	FZT705CT-ND	1.16	.87	FZT705TR-ND	1,000	328.10

RoHS compliant product available. Please refer to www.digikey.com for compliancy.

RF - NPN

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
15	30	0.025	25	150	2	1	—	—	—	Super E-Line —TO-92	ZTX325-ND	.67	5.04	33.60	224.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
12	20	0.05	25	250	3	1	0.4	10	1	SOT-23	FMMT5179CT-ND	.49	.37	FMMT5179TR-ND	3,000	145.80/M
15	30	0.10	20	—	3	1	0.4	10	1	SOT-23	FMMT918CT-ND	.45	.34	—	—	—
	30	0.10	20	—	3	1	0.4	10	10	SOT-323	ZUMT918CT-ND	.80	.60	ZUMT918TR-ND	3,000	239.40/M
	30	0.025	25	150	2	1	—	—	—	SOT-23	BFS17CT-ND	1.18	.89	—	—	—
	25	0.025	70	200	2	1	—	—	—	SOT-23	BFS17HCT-ND	.55	.41	BFS17HTR-ND	3,000	163.80/M
25	30	0.025	60	—	4	10	0.5	4	0.4	SOT-23	FMMTH10CT-ND	.47	.36	FMMTH10TR-ND	3,000	142.20/M

Small Signal

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
NPN																
15	40	0.2	40	120	10	1	0.20	10	1	SOT-323	ZUMT2369ACT-ND	1.01	.76	ZUMT2369ATR-ND	3,000	302.40/M
PNP																
-32	-32	-0.20	-380	-630	-2	-5	-0.25	-10	-0.25	SOT-23	BCW61DCT-ND	.88	.66	BCW61DTR-ND	3,000	262.80/M
-300	-300	-0.05	-50	—	-25	-20	-0.6	-30	-5	SOT-89	BF621CT-ND	.99	.75	—	—	—

ZETEX *QS9000 Accredited!*

H Bridge

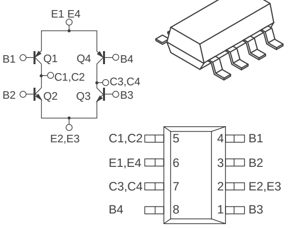

MLP 3 x 2

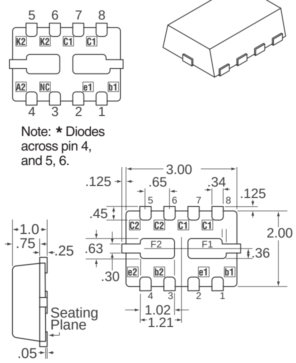

Note: * Diodes across pin 4, and 5, 6.

MSOP-8

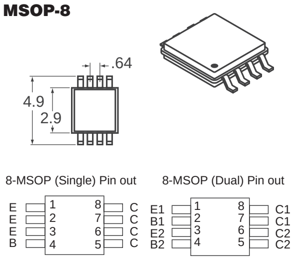

8-MSOP (Single) Pin out

8-MSOP (Dual) Pin out

SM-8

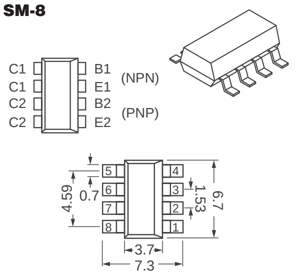

SOT-23

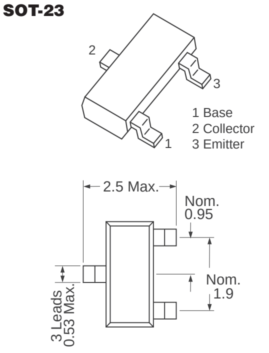

1 Base
2 Collector
3 Emitter

(Continued)

Avalanche - NPN

ZETEX SEMICONDUCTORS ***QS9000 Accredited!***

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Loose Piece Pricing 1	10	100	1,000
100	260	60	25	—	10	10	0.25	250	—	Super E-Line —TO-92	ZTX415-ND	22.14	166.05	996.30	6273.00

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
12	20	.05	25	250	3	1	0.4	10	1	SOT-23	FMMT5179CT-ND	.49	.37	FMMT5179TR-ND	3,000	145.80/M
100	260	.50	25	—	10	10	0.5	10	1	SOT-23	FMMT415CT-ND	20.97	15.73	FMMT415TR-ND	3,000	5242.50/M
	320	.50	25	—	10	10	0.5	10	1		FMMT417CT-ND	24.03	18.03	FMMT417TR-ND	3,000	6007.50/M

Dual Combinations

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
Dual NPN																
15	70	4.5	200	—	10	2	14	100	10	MLP 3 x 2	ZXTDAM832TACT-ND	1.36	1.03	ZXTDAM832TATR-ND	3,000	408.60/M
	15	3.0	200	—	.003	2	.200	.003	50	SM-8	ZDT617CT-ND	1.55	1.17	ZDT617TR-ND	1,000	438.60
17.5	50	5.0	300	—	.001	2	.300	.005	50	SM-8	ZDT1048CT-ND	2.15	1.62	ZDT1048TR-ND	1,000	608.60
20	100	4.5	200	—	10	2	8	100	10	MLP 3 x 2	ZXTDBM832TACT-ND	1.36	1.03	ZXTDBM832TATR-ND	3,000	408.60/M
	50	3.5	300	900	1000	2	0.20	3500	50	MSOP-8	ZXT12N20DXCT-ND	2.24	1.68	ZXT12N20DXTR-ND	1,000	634.10
25	35	2.0	75	—	.002	2	.500	.002	200	SM-8	ZDT649CT-ND	1.55	1.17	ZDT649TR-ND	1,000	438.60
45	45	2.0	400	—	.001	2	.500	.001	5	SM-8	ZDT690CT-ND	1.55	1.17	ZDT690TR-ND	1,000	438.60
50	100	3.0	300	900	1000	2	0.25	3000	50	MSOP-8	ZXT12N50DXCT-ND	2.24	1.68	ZXT12N50DXTR-ND	1,000	634.10
	50	2.0	200	—	.001	2	.200	.001	10	SM-8	ZDT619CT-ND	1.55	1.17	ZDT619TR-ND	1,000	438.60
	50	1.0	200	—	10	2	0.035	100	10	SOT-23-6	ZXTD09N50DE6CT-ND	1.34	1.01	ZXTD09N50DE6TR-ND	3,000	336.00/M
60	80	2.0	100	—	.001	2	.500	.002	200	SM-8	ZDT651CT-ND	1.55	1.17	ZDT651TR-ND	1,000	438.60
75	150	5.0	300	1200	1000	2	.100	1000	50	SM-8	ZDT1053CT-ND	2.15	1.62	ZDT1053TR-ND	1,000	608.60
120	140	1.0	2000	—	.001	5	1.500	.001	1	SM-8	ZDT605CT-ND*	1.55	1.17	ZDT605TR-ND*	1,000	438.60
Dual PNP																
-12	-35	-4.0	300	—	10	-2	-10	100	10	MLP 3 x 2	ZXTD1M832TACT-ND	1.36	1.03	ZXTD1M832TATR-ND	3,000	408.60/M
	-20	-3.0	300	900	1000	-2	-0.27	3000	30	MSOP-8	ZXT12P12DXCT-ND	2.24	1.68	ZXT12P12DXTR-ND	1,000	634.10
	-12	-2.5	180	—	.0025	-2	-.220	.0025	50	SM-8	ZDT717CT-ND	1.55	1.17	ZDT717TR-ND	1,000	438.60
-20	-25	-2.5	300	900	1000	-2	-0.20	2500	125	MSOP-8	ZXT12P20DXCT-ND	2.24	1.68	ZXT12P20DXTR-ND	1,000	634.10
-40	-50	-2.0	300	900	1000	-2	-0.26	2000	100	MSOP-8	ZXT12P40DXCT-ND	2.24	1.68	ZXT12P40DXTR-ND	1,000	634.10
-120	-140	-1.0	3000	30000	1000	-5	-1.3	1000	1	SM-8	ZDT705CT-ND	1.55	1.29	ZDT705TR-ND	1,000	438.60
NPN/PNP Combinations																
15 -12	15 -12	0.0015 -0.0012	200 -300	— —	10 -10	2 -2	20 -40	100 -100	10 -10	SOT-23-6	ZXTD6717E6TACT-ND	1.20	.90	ZXTD6717E6TATR-ND	3,000	300.00/M
18 -25	70 -35	4.5 -4.0	200 -475	— —	10 -10	2 -2	8 -10	100 -100	10 -10	MLP 3 x 2	ZXTDA1M832TACT-ND	1.36	1.03	ZXTDA1M832TATR-ND	3,000	408.60/M
20 -20	20 -20	2.0 -1.5	200 -150	— —	.002 -.002	2 -2	.200 -.220	.0025 -.0015	50 -50	SM-8	ZDT6718CT-ND	1.55	1.17	—	—	—
45 -40	45 -50	2.0 -2.0	150 -150	— —	.002 -.002	2 -2	.500 -.450	.001 -.001	5 -10	SM-8	ZDT6790CT-ND	1.55	1.17	ZDT6790TR-ND	1,000	438.60
50 -40	100 -50	4.0 -3.0	200 -300	400 —	10 -10	2 -2	.020 -.040	10 -10	10 -10	832MLP	ZXTDC3M832TACT-ND ***NEW!***	1.36	1.03	ZXTDC3M832TATR-ND ***NEW!***	3,000	408.60/M
65 -70	190 -80	4.0 -3.0	200 -300	— —	10 -10	2 -2	8 -25	100 -100	10 -10	MLP 3 x 2	ZXTDCM832TACT-ND	1.36	1.03	ZXTDCM832TATR-ND	3,000	408.60/M
60 -60	80 -80	2.0 -2.0	2000 -2000	— —	.002 -.002	3 -3	1.200 -1.200	.002 -.002	2 -2	SM-8	ZDT6702CT-ND*	1.55	1.17	ZDT6702TR-ND*	1,000	438.60
60 -60	80 -80	1.0 -1.0	100 -100	— —	.0005 -.0005	5 -5	.500 -.600	.001 -.001	100 -100	SOT-23-6	ZXTD4591E6CT-ND	.92	.69	ZXTD4591E6TR-ND	3,000	229.50/M
80 -70	100 -70	3.5 -2.5	200 -300	— —	10 -10	2 -5	.02 -.05	10 -10	10 -10	832MLP	ZXTDE4M832TACT-ND ***NEW!***	1.36	1.03	ZXTDE4M832TATR-ND ***NEW!***	3,000	408.60/M
120 -120	140 -140	1.0 -1.0	2000 -3000	— —	.001 -.001	5 -5	1.500 -1.300	.001 -.001	1 -1	SM-8	ZDT6705CT-ND*	1.55	1.17	ZDT6705TR-ND*	1,000	438.60
300 -300	300 -300	0.5 -0.5	50 -50	— —	.0001 -.0001	5 -5	.500 -.500	.0001 .0001	10 -10	SM-8	ZDT6757CT-ND	1.55	1.17	ZDT6757TR-ND	1,000	438.60
Dual Complementary																
27	100	4.5	200	—	10	2	8	100	10	MLP 3 x 2	ZXTDB2M832TACT-ND	1.36	1.03	ZXTDB2M832TATR-ND	3,000	408.60/M
40 -40	40 -40	2.0 -1.5	300 -300	— -900	1 -0.5	5 -5	3 -2	50 -1	50 -100	832MLP	ZXTD4591AM832TACT-ND ***NEW!***	1.38	1.04	ZXTD4591AM832TATR-ND ***NEW!***	3,000	414.00/M
40 -40	40 -40	1.5 -1.5	180 -180	500 -500	100 -100	2 -2	.375 -.375	750 -750	15 -15	SOT-23-6	ZXTC2045E6CT-ND ***NEW!***	1.38	1.04	ZXTC2045E6TR-ND ***NEW!***	3,000	243.00/M

* Darlington   RoHS Compliant product available. Please refer to www.digikey.com for compliancy.

H-Bridge

V_{CEO} (V)	V_{CBO} (V)	IC -DC (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	VCE (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
NPN/PNP																
20 -20	20 -20	2.5 -2.5	200 150	— —	2 2	2 -2	0.15 -0.2	1000 1000	10 20	H-Bridge	ZHB6718CT-ND	3.70	2.78	ZHB6718TR-ND	1,000	1047.20
50 -50	50 -40	2.0 -2.0	150 150	— —	2 2	2 -2	0.5 -0.45	1000 1000	5 10	H-Bridge	ZHB6790CT-ND	4.58	3.44	ZHB6790TR-ND	1,000	1297.10

Transistor and Schottky Diode Combinations

V_{CEO} (V)	V_{CBO} (V)	I_C (cont.) (A)	h_{FE}@ I_C/V_{CE} Min.	Max.	(mA)	(V)	V_{CE} (sat) Max. (V)	@I_C (mA)	@I_B (mA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
NPN																
27	100	4.5	200	—	8	2	15	10	10	MLP 3 x 2	ZX3CDBS1M832TACT-ND*	1.15	.86	ZX3CDBS1M832TATR-ND*	3,000	343.80/M
PNP																
-25	-35	-4.0	300	—	10	-2	-10	100	10	MLP 3 x 2	ZX3CD1S1M832TACT-ND*	1.28	.96	ZX3CD1S1M832TATR-ND*	3,000	383.40/M
-12	-12	-1.25	125	—	1250	-2	-0.240	1250	100	SOT-23-6	ZXTS1000E6CT-ND	1.20	.90	ZXTS1000E6TR-ND	3,000	300.00/M

* See drawing

SOT-23-6

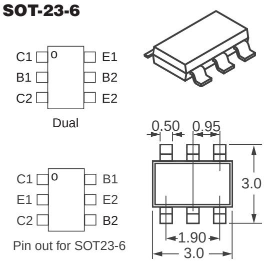

Pin out for SOT23-6

SOT-89

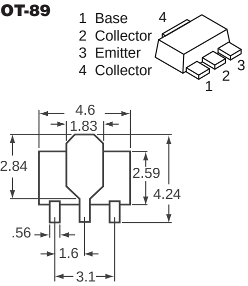

SOT-223

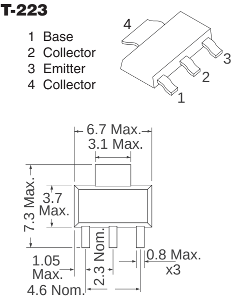

SOT-323

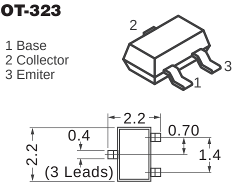

Super E-Line — TO-92

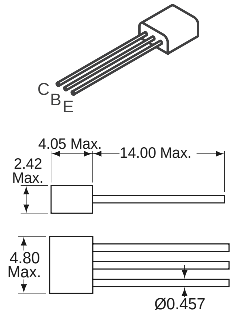

Bottom Views

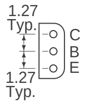

Pin out for TO-92

Varactor

ZETEX QS9000 Accredited!

V_{BR} (V)	P_{TOT} (mW)	C2 Nominal Capacitance (pF)	Capacitance Ratio C_2/C_{20} at f = 1MHz		Packaging Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
			Min.	Max.			1	10	100		
25V Hyperabrupt — 830 Series											
25	300	8.2	4.3	5.8	SOD-323	ZMV829ACT-ND	1.97	14.81	88.83	ZMV829ATR-ND	493.50/M
	330	8.2	4.3	5.8	SOT-23	ZC829ACT-ND	2.28	17.10	102.60	ZC829ATR-ND	570.00/M
	300	10	4.5	6.0	SOD-323	ZMV830ACT-ND	2.50	18.72	112.32	ZMV830ATR-ND	624.00/M
	330	10	4.5	6.0	SOT-23	ZC830ACT-ND	2.53	18.99	113.94	ZC830ATR-ND	633.00/M
	300	15	4.5	6.0	SOD-323	ZMV831ACT-ND	2.50	18.72	112.32	ZMV831ATR-ND	624.00/M
	330	15	4.5	6.0	SOT-23	ZC831ACT-ND	2.28	17.10	102.60	ZC831ATR-ND	570.00/M
	330	15	4.5	6.0	SOD-523	ZV831BV2TACT-ND	1.32	9.90	66.00	ZV831BV2TATR-ND	396.00/M
	300	22	5.0	6.5	SOD-323	ZMV832ACT-ND	2.50	18.72	112.32	ZMV832ATR-ND	624.00/M
	330	22	5.0	6.5	SOT-23	ZC832ACT-ND	2.53	18.99	113.94	ZC832ATR-ND	633.00/M
	330	22	5.0	6.5	SOD-523	ZV832BV2TACT-ND	1.32	9.90	66.00	ZV832BV2TATR-ND	396.00/M
	300	33	5.0	6.5	SOD-323	ZMV833ACT-ND	2.50	18.72	112.32	ZMV833ATR-ND	624.00/M
	330	33	5.0	6.5	SOT-23	ZDC833ACT-ND*	2.80	21.02	126.09	ZDC833ATR-ND*	700.50/M
	330	33	5.0	6.5	SOT-23	ZC833ACT-ND	2.53	18.99	113.94	ZC833ATR-ND	633.00/M
	300	47	5.0	6.5	SOD-323	ZMV834ACT-ND	1.97	14.81	88.83	ZMV834ATR-ND	493.50/M
	330	47	5.0	6.5	SOT-23	ZC834ACT-ND	2.53	18.99	113.94	ZC834ATR-ND	633.00/M
	330	47	5.0	6.5	SOD-23	ZDC834ATACT-ND*	1.51	11.30	75.30	ZDC834ATATR-ND*	451.80/M
	300	68	5.0	6.5	SOD-323	ZMV835ACT-ND	1.97	14.81	88.83	ZMV835ATR-ND	493.50/M
	330	68	5.0	6.5	SOT-23	ZC835ACT-ND	2.53	18.99	113.94	ZC835ATR-ND	633.00/M
	330	100	5.0	6.5	SOT-23	ZC836ACT-ND	2.53	18.99	113.94	ZC836ATR-ND	633.00/M

* Dual Package

V_{BR} (V)	P_{TOT} (mW)	C^d at				Q	Packaging Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
		V_R=1V	V_R=2.5V		V_R=4V								
		Min.	Min.	Max.	Max.	Min.			1	10	100		
12V Hyperabrupt — 930 Series													
12	300	8.7	4.3	5.5	2.9	350	SOD-323	ZMV930CT-ND	2.18	16.38	98.28	ZMV930TR-ND	546.00/M
	330	8.7	4.3	5.5	2.9	350	SOT-23	ZC930CT-ND	3.38	25.38	152.28	ZC930TR-ND	846.00/M
	330	13.5	6.5	7.8	4	300	SOD-523	ZV931V2TACT-ND	1.32	9.90	66.00	ZV931V2TATR-ND	396.00/M
	300	14.5	6.5	7.8	4	300	SOD-323	ZMV931CT-ND	2.18	16.38	98.28	ZMV931TR-ND	546.00/M
	330	14.5	6.5	7.8	4	300	SOT-23	ZC931CT-ND	3.38	25.38	152.28	ZC931TR-ND	846.00/M
	330	17	8.5	10.5	5.5	200	SOD-523	ZV932V2TACT-ND	1.32	9.90	66.00	ZV932V2TATR-ND	396.00/M
	300	17	8.5	10.5	5.5	200	SOD-323	ZMV932CT-ND	2.18	16.38	98.28	ZMV932TR-ND	546.00/M
	330	17	8.5	10.5	5.5	200	SOT-23	ZC932CT-ND	3.38	25.38	152.28	ZC932TR-ND	846.00/M
	330	42	18	27	12	150	SOD-523	ZV933V2TACT-ND	1.32	9.90	66.00	ZV933V2TATR-ND	396.00/M
	300	42	18	27	12	150	SOD-323	ZMV933CT-ND	2.18	16.38	98.28	ZMV933TR-ND	546.00/M
	330	42	18	27	12	150	SOT-23	ZC933CT-ND	3.38	25.38	152.28	ZC933TR-ND	846.00/M
	300	42	20.25	24.75	12	150	SOD-323	ZMV933ACT-ND	2.34	17.55	105.30	ZMV933ATR-ND	585.00/M
	330	42	20.25	24.75	12	150	SOT-23	ZC933ACT-ND	3.38	25.38	152.28	ZC933ATR-ND	846.00/M
	300	95	40	65	25	80	SOD-323	ZMV934CT-ND	2.18	16.38	98.28	ZMV934TR-ND	546.00/M
	330	95	40	65	25	80	SOT-23	ZC934CT-ND	3.38	25.38	152.28	ZC934TR-ND	846.00/M
	300	95	47.25	57.75	25	80	SOD-323	ZMV934ACT-ND	2.34	17.55	105.30	ZMV934ATR-ND	585.00/M
	330	95	47.25	57.75	25	80	SOT-23	ZC934ACT-ND	3.38	25.38	152.28	ZC934ATR-ND	846.00/M

Capacitance pF V_R=0.5V at f=1MHz	Capacitance pF V_R=0.5V at Nf=1MHz		Capacitance Ratio $C_{0.5}/C_{2.5}$ at f=1MHz	Minimum Q V_R=0.5V f=50MHz	Packaging Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
	Min.	Max.					1	10	100		
Low Voltage Hyperabrupt — 950 Series											
9.5	6.3	7.8	2.0	500	SOD-523	ZV950V2TACT-ND	1.32	9.90	66.00	ZV950V2TATR-ND	396.00/M
19	12.7	15.7	2.0	350	SOD-523	ZV952V2TACT-ND	1.32	9.90	66.00	ZV952V2TATR-ND	396.00/M
45	30	37	2.0	250	SOT-323	ZMDC953TACT-ND	1.51	11.30	75.30	ZMDC953TATR-ND	451.80/M

V_R (V)	Norm Cd (pf)		Cap Ratio			P_{TOT} (mW)	Packaging Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
	Min.	Max.	@	Min.	Max.				1	10	100		
28	26	32	C3/C25	5	6.5	330	SOT-23	BBY40CT-ND	1.06	7.97	53.10	BBY40TR-ND	318.60/M
30	1.8	2.8	C3/C25	4	6	330	SOT-23	FMMV105GCT-ND	.81	6.08	40.50	—	—
	20	25	C3/C25	4.5	—	330	SOT-23	FMMV3102CT-ND	.81	6.08	40.50	FMMV3102TR-ND	243.00/M
	6.1	7.5	C2/C30	2.5	3.3	330	SOT-23	FMMV2101CT-ND	.81	6.08	40.50	FMMV2101TR-ND	243.00/M
	10.8	13.2	C2/C30	2.6	3.3	330	SOT-23	FMMV2104CT-ND	.81	6.08	40.50	FMMV2104TR-ND	243.00/M

SOD-323

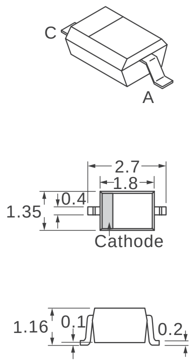

SOD-523

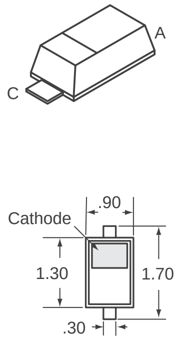

SOT-23/ SOT-323 (Varactor)

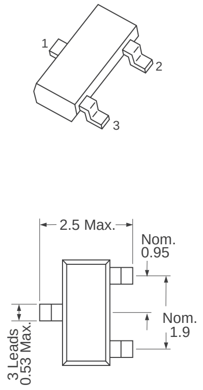

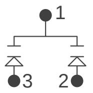

Dual Diodes

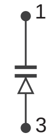

Single Diode

(Continued)

Schottky Diodes

V_R	I_F	V_F @		Ir @		Pinning	Packaging	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing
Max. (V)	Max. (mA)	Max. (mV)	I_F (mA)	Max. (µA)	Vr (V)	Configuration	Size	Part No.	1	10	100	Part No.	3,000
Rectifiers													
30	200	500	30	4	25	Single	SOT-23	BAT54CT-ND	.69	.52	.35	BAT54TR-ND	207.00/M
40	2000	500	2000	250	30	—	SOT-23-6	ZHCS2000CT-ND	1.04	.79	.53	ZHCS2000TR-ND	261.00/M
	1000	500	1000	100	30	Single	SOT-23	ZHCS1000CT-ND	1.04	.79	.47	ZHCS1000TR-ND	261.00/M
	750	540	750	100	30	Single	SOT-23	ZHCS750CT-ND	.84	.63	.38	ZHCS750TR-ND	210.00/M
	500	550	500	40	30	Single	SOT-23	ZHCS500CT-ND	.63	.48	.32	ZHCS500TR-ND	189.00/M
	400	500	400	40	30	Single	SOD-323	ZHCS400CT-ND	.55	.42	.28	ZHCS400TR-ND	165.60/M
60	900	600	1000	100	45	Single	SOT-23	ZHCS1006CT-ND	1.04	.79	.53	ZHCS1006TR-ND	313.20/M
	750	610	750	100	45	Single	SOT-23	ZHCS756CT-ND	.89	.67	.45	ZHCS756TR-ND	266.40/M
	500	630	500	40	45	Single	SOT-23	ZHCS506CT-ND	.68	.52	.35	ZHCS506TR-ND	205.20/M

Switching

V_R	I_F	V_F @		Ir @		Pinning	Packaging	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing
Max. (V)	Max. (mA)	Max. (mV)	I_F (mA)	Max. (µA)	Vr (V)	Configuration	Size	Part No.	1	10	100	Part No.	3,000
Dual													
30	200	500	30	4	25	Com. Anode	SOT-23	BAT54ACT-ND	.69	.52	.35	BAT54ATR-ND	207.00/M
	200	500	30	4	25	Com. Cathode	SOT-23	BAT54CCT-ND	.69	.52	.35	BAT54CTR-ND	207.00/M
	200	500	30	4	25	Series	SOT-23	BAT54SCT-ND	.69	.52	.35	BAT54STR-ND	207.00/M
ZLLS Series - Low Leakage													
40	2200	370	500	40	30	Single	SOT-23-6	ZLLS2000CT-ND	1.00	.76	.46	ZLLS2000TR-ND	250.50/M
	1160	460	500	20	30	Single	SOT-23	ZLLS1000CT-ND	.71	.54	.36	ZLLS1000TR-ND	214.20/M
	700	530	500	10	30	Single	SOT-23	ZLLS500CT-ND	.51	.39	.23	ZLLS500TR-ND	127.50/M
	520	500	400	10	30	Single	SOD-323	ZLLS400TACT-ND	.51	.39	.23	ZLLS400TATR-ND	127.50/M
RF													
Barrier Diode — Dual													
15	20	410	1	.100	10	Com. Anode	SOT-23	ZC2813ECT-ND	1.55	1.17	.70	ZC2813ETR-ND	387.00/M
70	15	410	1	.200	50	Series	SOT-323	ZUMD70-04CT-ND	.75	.57	.34	ZUMD70-04TR-ND	187.50/M
High Speed													
50	150	1000	100	0.1	50	Single	SOT-23	BAR74ZXCT-ND	.88	.66	.44	—	—

Zener

Silicon voltage regulator diodes designed for voltage reference and stabilizer applications. Encapsulated in the popular SOT-23 package, these devices are designed specifically for use in thin and thick film hybrid circuits in both industrial and commercial applications.

Specifications:

• Nominal Tolerance: ±5% • Maximum Power Dissipation at T_{amb} = 25°C: P_{tot} 350mW • Operating and Storage Temperature Range: -65°C ~ 150°C • Maximum Forward Current: I_F 250mA

Zener Voltage Vz at Iz = 5mA			Diff. Resistance rz at Iz = 5mA	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing
Nom.	Min.	Max.	Max. (Ohms)	Part No.	1	10	100	Part No.	3,000
Zener Diodes — Silicon Voltage Regulator Diodes — SOT-23 Packaging									
7.5	7.0	7.9	15	BZX84C7V5ZXCT-ND	.91	.69	.46	BZX84C7V5ZXTR-ND	273.60/M
11	10.4	11.6	20	BZX84C11ZXCT-ND	.91	.69	.46	—	—
20	18.8	21.2	55	BZX84C20ZXCT-ND	.91	.69	.46	BZX84C20ZXTR-ND	273.60/M
22	20.8	23.3	55	BZX84C22ZXCT-ND	.91	.69	.46	—	—
36.0	34.0	38.0	90	BZX84C36ZXCT-ND†	.91	.69	.46	—	—
39	37	41	130	BZX84C39ZXCT-ND†	.91	.69	.46	BZX84C39ZXTR-ND	273.60/M
47	44	50	170	BZX84C47ZXCT-ND†	.91	.69	.46	—	—

† Iz at 2mA

ZETEX SEMICONDUCTORS ***QS9000 Accredited!***

SOT-23 (Schottky/Switching/Zener)

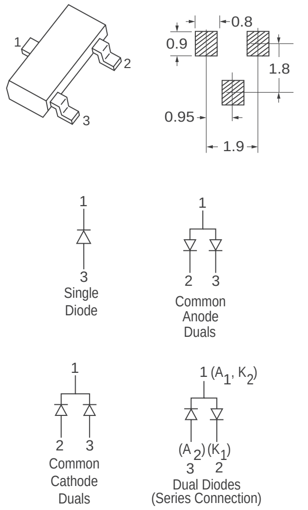

SOT-23-6

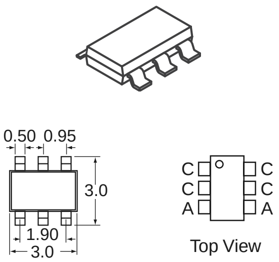

SOT-323

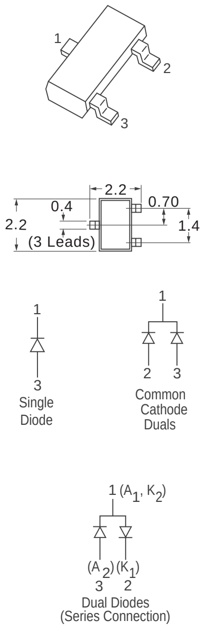

ZETEX MOSFETs

ZETEX QS9000 Accredited!

20 Volts

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	at Max.	I_D (mA)	R_{DS} (on) (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
N-Channel																
20	6000	27	0.7	—	0.25	0.020	11000	4.5	1.100	MSOP8	ZXMN2A02X8CT-ND	2.24	1.68	ZXMN2A02X8TR-ND	1,000	634.10
	8300	50	0.7	—	0.25	0.020	11000	4.5	1.560	SO-8	ZXMN2A02N8CT-ND	2.24	1.68	ZXMN2A02N8TR-ND	500	391.65
	1900	8	0.7	—	0.25	0.120	4000	4.5	0.625	SOT-23	ZXMN2A01FCT-ND	.55	.42	ZXMN2A01FTR-ND	3,000	138.00/M
	2440	10	0.7	—	0.25	0.120	4000	4.5	1.100	SOT-23-6	ZXMN2A01E6CT-ND	.80	.60	ZXMN2A01E6TR-ND	3,000	199.50/M
	3600	16	0.7	—	0.25	0.055	7200	4.5	1.100	SOT-23-6	ZXMN2A03E6CT-ND	.96	.72	ZXMN2A03E6TR-ND	3,000	240.00/M
	3400	19	0.7	—	0.25	0.110	2500	2.5	1.000	SOT-23	ZXMN2A14FCT-ND	.88	.66	ZXMN2A14FTR-ND	3,000	219.00/M
	1700	7.4	0.7	—	0.25	0.180	930	4.5	0.625	SOT-23	ZXM61N02FCT-ND	.62	.47	ZXM61N02FTR-ND	3,000	208.00/M
	5400	30	0.7	—	0.25	0.040	3800	4.5	1.100	MSOP8	ZXM64N02XCT-ND	2.39	1.80	ZXM64N02XTR-ND	1,000	678.30
Dual																
20	7700	38	1.0	—	0.25	0.025	5900	4.5	2.100	SO-8	ZXMN2A04DN8CT-ND	3.38	2.54	ZXMN2A04DN8TR-ND	500	592.20
	2400	19	0.7	—	0.25	0.130	1700	4.5	1.040	MSOP8	ZXMD63N02XCT-ND	2.94	2.21	ZXMD63N02XTR-ND	1,000	833.00
P-Channel																
-20	-900	4.9	0.7	—	0.25	0.6	610	4.5	.625	SOT-23	ZXM61P02FCT-ND	.64	.49	ZXM61P02FTR-ND	3,000	214.00/M
	-2300	13	0.7	—	0.25	0.2	1600	4.5	1.1	SOT-23-6	ZXM62P02E6CT-ND	1.28	.96	ZXM62P02E6TR-ND	3,000	319.50/M
	-3500	19	0.7	—	0.25	0.09	2400	4.5	1.1	MSOP8	ZXM64P02XCT-ND	2.56	1.92	ZXM64P02XTR-ND	1,000	724.20
	-8000	-28	-0.7	—	0.25	0.025	3200	-4.5	2.5	SO-8	ZXM66P02N8CT-ND	3.56	2.68	ZXM66P02N8TR-ND	500	623.70
Dual																
-20	-1700	9.6	0.7	—	0.25	0.27	1200	4.5	1.040	MSOP8	ZXMD63P02XCT-ND	3.10	2.33	ZXMD63P02XTR-ND	1,000	877.20
	-5100	-18	-0.7	—	0.25	0.050	2900	-4.5	2.000	SO-8	ZXMD65P02N8CT-ND	3.56	2.68	ZXMD65P02N8TR-ND	500	623.70
N & P Channel Complementary																
20 -20	2400 -1700	19 9.6	0.7	—	0.25	0.13 0.27	1700 1200	4.5 4.5	1.04	MSOP8	ZXMD63C02XCT-ND	2.79	2.10	ZXMD63C02XTR-ND	1,000	790.50

30 - 50 Volts

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	at Max.	I_D (mA)	R_{DS} (on) (Ω) Max. @	I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel															
35	13000	30	1.0	—	.250	0.060	3700	10	20	TO-220	ZXM64N035L3-ND	3.26	2.45	1.63	1.09
P-Channel															
-35	-12000	-19	-1.0	—	.250	0.075	2400	10	20	TO-220	ZXM64P035L3-ND	3.48	2.61	1.74	1.16
-45	-230	-3	-1.0	-3.5	1	14	200	-10	0.7	TO-92	BS250P-ND	.96	.72	.48	.32
-50	-175	-0.52	-0.8	-2.0	1	10	100	-5	0.625	TO-92	ZVP4105A-ND	1.24	.93	.56	.36

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	at Max.	I_D (mA)	R_{DS} (on) (Ω) Max.@	I_D (mA)	V_{GS} (V)	P_D (W)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
N-Channel																
30	18400	66	1	—	250	0.03	9800	4.5	10.1	D-PAK	ZXMN3A04KTCCT-ND	3.36	2.52	ZXMN3A04KTCTR-ND	2,500	952.00/M
	7200	45	0.7	—	0.25	0.025	7200	4.5	2.0	SO-8	ZXMN3B04N8CT-ND	1.97	1.49	ZXMN3B04N8TR-ND	500	345.45
	5300	44	1	—	0.25	0.035	10200	10	2.5	SO-8	ZXMN3A02N8CT-ND	2.22	1.67	ZXMN3A02N8TR-ND	500	388.50
	6700	24	1	—	0.25	0.025	12000	10	1.1	MSOP8	ZXMN3A02X8CT-ND	2.24	1.68	ZXMN3A02X8TR-ND	1,000	634.10
	1800	8	1	—	0.25	0.12	2500	10	.625	SOT-23	ZXMN3A01FCT-ND	.55	.42	ZXMN3A01FTR-ND	3,000	138.00/M
	2400	10	1	—	0.25	0.12	2000	10	1.1	SOT-23-6	ZXMN3A01E6CT-ND	.80	.60	ZXMN3A01E6TR-ND	3,000	199.50/M
	3700	17	1	—	0.25	0.050	7800	10	1.1	SOT-23-6	ZXMN3A03E6CT-ND	.96	.72	ZXMN3A03E6TR-ND	3,000	240.00/M
	3200	—	1	—	.250	0.065	3200	10	1.000	SOT-23	ZXMN3A14FCT-ND	.88	.66	ZXMN3A14FTR-ND	3,000	219.00/M
	1400	17	1	—	0.25	0.22	9100	10	1.1	SOT-23	ZXM61N03FCT-ND	.62	.47	ZXM61N03FTR-ND	3,000	208.00/M
	3200	18	1	—	0.25	0.11	2200	10	1.1	SOT-23-6	ZXM62N03E6CT-ND	1.19	.90	—	—	—
	5000	30	1	—	0.25	0.045	3700	10	1.1	MSOP8	ZXM64N03XCT-ND	2.39	1.80	ZXM64N03XTR-ND	1,000	678.30
35	6700	30	1	—	0.25	0.050	3700	10	2.0	SOT-223	ZXM64N035GCT-ND	2.46	1.85	ZXM64N035GTR-ND	1,000	697.00
40	5000	22	1	—	0.25	.05	4500	10	2.0	SOT-223	ZXMN4A06GCT-ND	1.63	1.23	ZXMN4A06GTR-ND	1,000	462.40
50	200	0.8	0.5	1.5	1	3.5	200	5	.360	SOT-23	BSS138ZXCT-ND	.58	.44	BSS138ZXTR-ND	3,000	145.50/M
Dual																
30	2300	14	1	—	0.25	0.135	1700	10	1.25	MSOP8	ZXMD63N03XCT-ND	2.94	2.21	ZXMD63N03XTR-ND	1,000	833.00
	8500	39	1	—	0.25	0.020	12600	10	2.15	SO-8	ZXMN3A04DN8CT-ND	3.38	2.54	ZXMN3A04DN8TR-ND	500	592.20
	6200	30	1	—	0.25	0.035	9000	10	2.1	SO-8	ZXMN3A06DN8CT-ND	1.89	1.42	ZXMN3A06DN8TR-ND	500	315.00
P-Channel																
-30	-5400	-24.9	-1	—	0.25	.045	4200	-10	2.0	SOT-223	ZXMP3A16GCT-ND	1.63	1.23	ZXMP3A16GTR-ND	1,000	462.40
	-3200	-14.4	-1	—	0.25	0.07	3200	-10	1.1	SOT-23-6	ZXMP3A17E6CT-ND	1.04	.79	ZXMP3A17E6TR-ND	3,000	295.80/M
	-5600	-25	-1	—	0.25	0.045	4200	-10	1.9	SO-8	ZXMP3A16N8CT-ND	1.55	1.17	ZXMP3A16N8TR-ND	500	270.90
	-1100	4.3	1	—	0.25	0.35	600	10	.625	SOT-23	ZXM61P03FCT-ND	.64	.49	ZXM61P03FTR-ND	3,000	214.00/M
	-2600	13	1	—	0.25	0.15	1600	10	1.1	SOT-23-6	ZXM62P03E6CT-ND	1.28	.96	ZXM62P03E6TR-ND	3,000	319.50/M
	-1400	-5	1	—	0.25	0.21	1400	10	.625	SOT-23	ZXMP3A13FCT-ND	.63	.48	ZXMP3A13FTR-ND	3,000	178.50/M
	-3800	19	1	—	0.25	0.075	2400	10	1.1	MSOP8	ZXM64P03XCT-ND	2.56	1.92	ZXM64P03XTR-ND	1,000	724.20
	-7900	-28	-1	—	0.25	0.025	5600	-10	2.5	SO-8	ZXM66P03N8CT-ND	3.56	2.68	ZXM66P03N8TR-ND	500	623.70
-35	-3800	-19	-1	—	0.25	0.075	2400	-10	2.0	SOT-223	ZXM64P035GCT-ND	2.64	1.98	ZXM64P035GTR-ND	1,000	748.00
-40	-6400	-21	-1	—	0.25	.06	3800	10	3.9	SOT-223	ZXMP4A16GCT-ND	1.63	1.23	ZXMP4A16GTR-ND	1,000	462.40
-45	-90	-1.6	-1	-3.5	1	14	200	-10	.330	SOT-23	BS250FCT-ND	1.05	.79	BS250FTR-ND	3,000	262.50/M
-50	-130	-0.52	-0.8	-2.0	1	10	100	-5	.360	SOT-23	BSS84ZXCT-ND	.58	.44	BSS84ZXTR-ND	3,000	174.60/M
Dual																
-30	-2000	9.6	1	—	0.25	0.185	1200	10	1.0	MSOP8	ZXMD63P03XCT-ND	3.10	2.33	ZXMD63P03XTR-ND	1,000	877.20
	-4400	-16.2	-1	—	0.25	0.070	3200	-10	2.1	SO-8	ZXMP3A17DN8CT-ND	1.97	1.49	ZXMP3A17DN8TR-ND	500	345.45
	-5500	-20	-1	—	0.25	0.045	4200	-10	2.1	SO-8	ZXMP3A16DN8CT-ND	2.15	1.62	ZXMP3A16DN8TR-ND	500	375.90
	-4800	-18	-1	—	0.25	0.055	4900	-10	2.0	SO-8	ZXMD65P03N8CT-ND	3.56	2.68	ZXMD65P03N8TR-ND	500	623.70
N & P Channel Complementary																
30 -30	2300 -2000	14 -9.6	1	—	0.25	0.135 -0.185	1700 1200	10 16	1.25	MSOP8	ZXMD63C03XCT-ND	2.79	2.10	ZXMD63C03XTR-ND	1,000	790.50
30 -30	3700 -2700	12.4 -9.2	1 0.8	— —	0.25 0.25	.120 .210	2500 1400	10 10	1.70	832MLP	ZXMC3AM832TACT-ND ***NEW!***	1.46	1.10	ZXMC3AM832TATR-ND ***NEW!***	3,000	439.20/M
30 -30	6400 -5400	30 -25	1	—	0.25	0.050 -0.070	0.0074 0.0034	4.5 4.5	1.25	SO-8	ZXMC3A16DN8CT-ND	1.98	1.49	ZXMC3A16DN8TR-ND	500	346.50

MSOP8

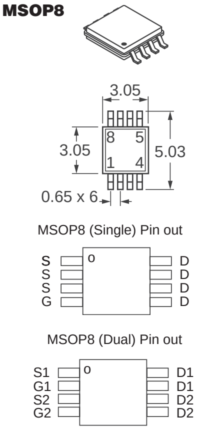

SM-8

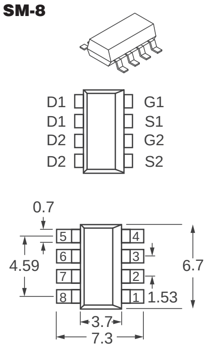

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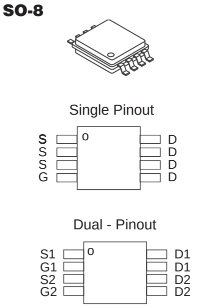

832MLP *NEW!*

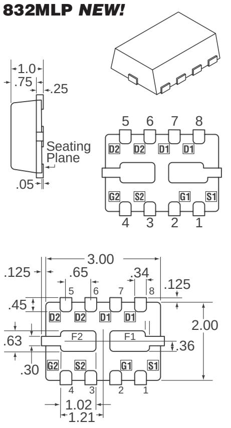

(Continued)

MOSFETs *(Cont.)*

ZETEX SEMICONDUCTORS *QS9000 Accredited!*

60 Volts

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) V Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel															
60	270	3	0.8	2.4	1	5	500	10	0.625	TO-92	ZVN3306A-ND	.84	.63	.42	.28
	450	8	0.8	2.4	1	2	1000	10	0.7	TO-92	ZVN2106A-ND	1.10	.83	.50	.32
	600	8	1.3	3.0	1	1.5	500	5	0.7	TO-92	ZVN4206A-ND	1.21	.91	.55	.35
	1100	20	1.3	3.0	1	0.45	1500	5	0.85	TO-92	ZVN4306A-ND	2.67	2.01	1.21	.76
	270	3	0.8	3.0	1	5	200	10	0.625	TO-92	BS170P-ND	.88	.66	.44	.30
	270	3	0.8	2.5	1	7.5	200	5	0.625	TO-92	VN10LP-ND	.88	.66	.44	.30
P-Channel															
-60	-160	-1.6	-1.5	-3.5	1	14	200	-10	0.625	TO-92	ZVP3306A-ND	.84	.63	.38	.24
	-280	-4	-1.5	-3.5	1	5	500	-10	0.7	TO-92	ZVP2106A-ND	1.24	.93	.56	.36

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
N-Channel																
60	11,200	40	1	—	.250	0.070	5600	4.5	10.1	D-PAK	ZXMN6A09KTCCT-ND	3.36	2.52	ZXMN6A09KTCTR-ND	2,500	952.00/M
	1200	1.2	1	3.0	.250	7.5	500	10	.33	SOT-23	2N7002CT-ND	.81	.61	2N7002TR-ND	3,000	243.00/M
	1200	1.2	1	3.0	.250	0.3	1800	10	.800	SOT-23	ZXMN6A07FCT-ND	.59	.45	ZXMN6A07FTR-ND	3,000	148.50/M
	3800	5.6	1	—	0.25	0.250	3800	4.5	3.9	SOT-223	ZXMN6A11GCT-ND	1.25	.95	ZXMN6A11GTR-ND	1,000	355.30
	3100	4	1	—	0.25	0.100	4800	10	1.7	SOT-23-6	ZXMN6A08E6CT-ND	1.00	.76	ZXMN6A08E6TR-ND	3,000	250.50/M
	2200	6.8	1	3.0	0.25	0.30	1800	10	2.6	SOT-89	ZXMN6A07ZCT-ND	.70	.53	ZXMN6A07ZTR-ND	1,000	197.20
	6900	30.6	1	—	0.25	0.045	8200	10	3.9	SOT-223	ZXMN6A09GCT-ND	2.10	1.58	ZXMN6A09GTR-ND	1,000	462.40
	3200	12.3	1	—	0.25	0.14	4400	10	2.6	SOT-89	ZXMN6A11ZCT-ND	1.00	.76	ZXMN6A11ZTR-ND	1,000	283.90
	200	3	1.3	3	1	2.5	500	10	.330	SOT-23	ZVN4106FCT-ND	1.02	.77	ZVN4106FTR-ND	3,000	255.00/M
	710	8.0	0.8	2.4	1.0	2.0	1.0	10	2.0	SOT-223	ZVN2106GCT-ND	1.51	1.13	ZVN2106GTR-ND	1,000	426.70
	1000	8.0	1.3	3.0	1.0	1.0	1.5	10	2.0	SOT-223	ZVN4206GCT-ND	1.81	1.36	ZVN4206GTR-ND	1,000	511.70
	2100	15	1.3	3	1.0	0.33	3000	10	3.0	SOT-223	ZVN4306GCT-ND	2.45	1.85	ZVN4306GTR-ND	1,000	695.30
	1600	3	—	—	—	0.675	700	—	2.5	SOT-223	BSP75GCT-ND◊	2.24	1.68	BSP75GTR-ND◊	1,000	746.00
	150	3	0.8	3	1	5	200	10	.330	SOT-23	BS170FCT-ND	1.02	.77	BS170FTR-ND	3,000	255.00/M
	150	3	0.8	2.5	1	7.5	200	5	.330	SOT-23	VN10LFCT-ND	.68	.52	VN10LFTR-ND	3,000	171.00/M
	150	3	0.8	2.4	1	5	500	10	.330	SOT-23	ZVN3306FCT-ND	.93	.70	ZVN3306FTR-ND	3,000	232.50/M
Dual																
60	5100	25	1	—	0.25	0.045	8200	10	2.1	SO-8	ZXMN6A09DN8CT-ND	3.56	2.68	ZXMN6A09DN8TR-ND	500	623.70
	2700	8.3	1	—	0.25	0.140	4400	10	2.1	SO-8	ZXMN6A11DN8CT-ND	1.46	1.10	ZXMN6A11DN8TR-ND	500	316.05
	4700	22	1	—	0.25	0.055	3600	10	2.1	SO-8	ZXMN6A25DN8CT-ND	2.06	1.55	ZXMN6A25DN8TR-ND	500	228.76
	2000	15	1.3	3	1	0.33	3000	10	2.5	SM-8	ZDM4306NCT-ND	3.48	2.61	ZDM4306NTR-ND	1,000	986.00
	1000	8.0	1.3	3	1	1	1500	10	2.25	SM-8	ZDM4206NCT-ND	3.48	2.61	ZDM4206NTR-ND	1,000	986.00
P-Channel																
-60	-4100	-13.7	-1.0	—	.250	0.125	2200	-10	2.0	SOT-223	ZXMP6A17GCT-ND	1.04	.79	ZXMP6A17GTR-ND	1,000	295.80
	-3000	-13.6	-1.0	—	.250	0.125	2300	-10	1.7	SOT-23-6	ZXMP6A17E6CT-ND	1.04	.79	ZXMP6A17E6TR-ND	3,000	261.00/M
	-1100	-4	-1.0	—	.250	0.4	900	-10	.806	SOT-23	ZXMP6A13FCT-ND	.63	.48	ZXMP6A13FTR-ND	3,000	157.50/M
	-90	-1.6	-1.5	-3.5	1	14	200	-10	.330	SOT-23	ZVP3306FCT-ND	1.11	.84	ZVP3306FTR-ND	3,000	277.50/M
	-450	-4.0	-1.5	-3.5	1.0	5.0	500	-10	2.0	SOT-223	ZVP2106GCT-ND	1.81	1.36	ZVP2106GTR-ND	1,000	511.70
Dual																
-60	-4800	-23.8	-1	—	.250	0.055	3500	-10	2.1	SO-8	ZXMP6A18DN8CT-ND	3.02	2.27	ZXMP6A18DN8TR-ND	500	529.20
	-3900	-10.3	-1	—	.250	0.085	2900	-10	2.1	SO-8	ZXMP6A16DN8CT-ND	2.15	1.62	ZXMP6A16DN8TR-ND	500	375.90
	-3200	-14.2	-1	—	.250	0.125	2300	-10	2.1	SO-8	ZXMP6A17DN8CT-ND	1.63	1.23	ZXMP6A17DN8TR-ND	500	285.60
NEW! N & P Channel Complementary NEW!																
60 -60	5100 -4800	25.0 -23.0	1 -1	— —	.250 .250	0.450 0.550	8200 3500	10 10	2.1	SO-8	ZXMC6A09DN8TACT-ND	3.38	2.54	ZXMC6A09DN8TATR-ND	500	592.20

◊ RoHS Compliant

100 Volts

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) V Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel															
100	320	6	0.75	1.5	1	4.5	250	5	0.7	TO-92	ZVNL110A-ND	1.10	.83	.50	.32
	320	6	0.8	2.4	1	4	1000	10	0.7	TO-92	ZVN2110A-ND	1.08	.81	.49	.31
	200	2	0.8	2.4	1	10	500	10	0.625	TO-92	ZVN3310A-ND	.93	.70	.47	.31
	450	6	0.8	2.4	1	1.8	500	5	0.7	TO-92	ZVN4210A-ND	1.26	.95	.57	.36
	900	12	1.0	3.0	1	0.65	1500	5	0.85	TO-92	ZVN4310A-ND	2.67	2.01	1.21	.76
P-Channel															
-100	-230	-3	-1.5	-3.5	1	8	375	-10	0.7	TO-92	ZVP2110A-ND	1.24	.93	.56	.36
	-140	-1.2	-1.5	-3.5	1	20	150	-10	0.625	TO-92	ZVP3310A-ND	1.00	.75	.45	.29

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	V_{GS} (V)	P_D (W)	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Pricing
N-Channel																
100	7700	27	2.0	4.0	0.25	0.100	0.0042	6	10.1	D-PAK	ZXMN10A09KCT-ND	3.36	2.52	ZXMN10A09KTR-ND	2,500	952.00/M
	600	6.0	0.75	1.5	1.0	4.5	250	5	2.0	SOT-223	ZVNL110GCT-ND	1.51	1.13	ZVNL110GTR-ND	1,000	426.70
	1500	8.6	2	4	0.25	0.25	3200	10	1.7	SOT-23-6	ZXMN10A08E6CT-ND	1.00	.76	ZXMN10A08E6TR-ND	3,000	250.50/M
	1900	9	1	3	0.25	0.30	1400	4.5	1.7	SOT-23-6	ZXMN10B08E6CT-ND	1.00	.76	ZXMN10B08E6TR-ND	3,000	250.50/M
	500	6.0	0.8	2.4	1.0	4.0	1.0	10	2.0	SOT-223	ZVN2110GCT-ND	1.51	1.13	ZVN2110GTR-ND	1,000	426.70
	100	2	0.8	2.4	1	10	500	10	.330	SOT-23	ZVN3310FCT-ND	.93	.70	ZVN3310FTR-ND	3,000	232.50/M
	1670	12	1.0	3.0	1.0	0.54	3.3	10	3.0	SOT-223	ZVN4310GCT-ND	2.45	1.85	ZVN4310GTR-ND	1,000	695.30
	170	0.68	0.8	2.8	1	6	100	10	.360	SOT-23	BSS123CT-ND	.58	.44	BSS123TR-ND	3,000	145.50/M
	170	0.68	0.8	2.8	1	6	100	10	.360	SOT-23	BSS123ACT-ND	.42	.32	BSS123ATR-ND	3,000	105.00/M
	800	3.5	2	4	0.25	0.7	1500	10	.62	SOT-23	ZXMN10A07FCT-ND	.59	.45	ZXMN10A07FTR-ND	3,000	148.50/M
	1400	4.2	2	4	0.25	0.70	1500	10	2.6	SOT-89	ZXMN10A07ZCT-ND	.71	.54	ZXMN10A07ZTR-ND	1,000	200.60
	1600	9.0	2	—	0.25	0.25	3200	10	1.25	SO-8	ZXMN10A08DN8TACT-ND ***NEW!***	1.89	1.42	ZXMN10A08DN8TATR-ND ***NEW!***	500	330.75
	1800	5.8	2	4	0.25	0.6	2600	10	3.9	SOT-223	ZXMN10A11GCT-ND	1.25	.95	ZXMN10A11GTR-ND	1,000	355.30
P-Channel																
-100	-3700	-16.5	-2	-4.0	0.25	0.150	2800	-10	3.9	SOT-223	ZXMP10A18GCT-ND	3.20	2.41	ZXMP10A18GTR-ND	1,000	907.80
	-1600	-7.7	-2	-4.0	0.25	0.35	1400	-10	1.7	SOT-23-6	ZXMP10A17E6CT-ND	1.04	.79	ZXMP10A17E6TR-ND	3,000	261.00/M
	-700	-3.1	-2	-4.0	0.25	1	600	-10	.800	SOT-23	ZXMP10A13FCT-ND	.67	.51	ZXMP10A13FTR-ND	3,000	168.00/M
	-75	-1.2	-1.5	-3.5	1	20	150	-10	.330	SOT-23	ZVP3310FCT-ND	1.11	.84	ZVP3310FTR-ND	3,000	277.50/M
	-310	-3.0	-1.5	-3.5	1.0	8.0	0.375	-10	2.0	SOT-223	ZVP2110GCT-ND	1.81	1.36	ZVP2110GTR-ND	1,000	511.70

D-PAK

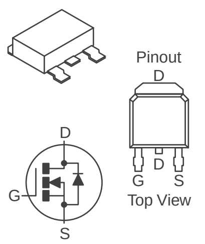

SOT-23

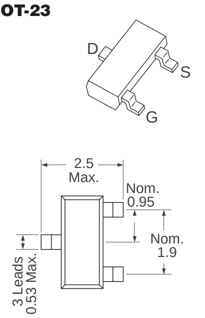

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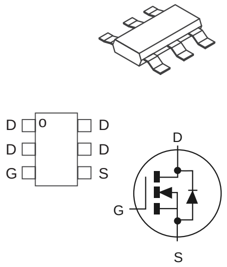

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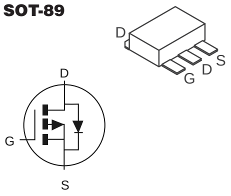

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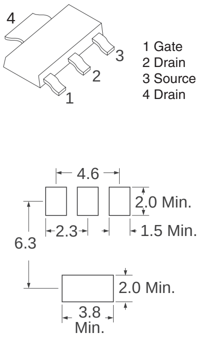

(Continued)

200 - 450 Volts

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) V Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	R_{DS} (on) V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel															
200	180	2	0.5	1.5	1	10	125	3	0.7	TO-92	ZVNL120A-ND	1.38	1.04	.63	.40
	120	2	—	—	—	23	25	2.6	0.5	TO-92	BS107P-ND	1.08	.81	.49	.31
240	260	1	0.8	1.8	1	6	100	2.5	0.75	TO-92	ZVN4424A-ND	1.69	1.27	.76	.48
450	90	0.6	1.0	3.0	1	50	100	10	0.7	TO-92	ZVN0545A-ND	2.76	2.07	1.25	.79
P-Channel															
-200	-120	-1.2	-1.5	-4.5	1	25	150	-10	0.7	TO-92	ZVP2120A-ND	1.38	1.04	.63	.40
-240	-200	-1	-0.8	-2.5	1	15	100	-3.5	0.75	TO-92	ZVP4424A-ND	1.73	1.31	.79	.50
-450	-45	-0.4	-1.5	-4.5	1	150	50	-10	0.7	TO-92	ZVP0545A-ND	3.10	2.33	1.40	.88

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	R_{DS} (on) V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
N-Channel																
200	60	1	1	3	1	25	100	10	.300	SOT-23	ZVN3320FCT-ND	.66	.50	ZVN3320FTR-ND	3,000	165.00/M
	320	2.0	1.0	3.0	1.0	10	0.25	10	2.0	SOT-223	ZVN2120GCT-ND	1.51	1.13	ZVN2120GTR-ND	1,000	426.70
	320	2.0	0.5	1.5	1.0	10	0.125	3.0	2.0	SOT-223	ZVNL120GCT-ND	1.51	1.13	ZVNL120GTR-ND	1,000	426.70
240	500	1.5	0.8	1.8	1.0	6.0	0.10	2.5	2.5	SOT-223	ZVN4424GCT-ND	1.91	1.44	ZVN4424GTR-ND	1,000	540.60
	300	1.0	0.8	1.8	1	6	100	2.5	1	SOT-89	ZVN4424ZCT-ND	1.20	.90	ZVN4424ZTR-ND	1,000	340.00
250	230	1.44	0.8	1.8	1	9.50	20	2.4	1.1	SOT-23-6	ZVN4525E6CT-ND	1.15	.86	ZVN4525E6TR-ND	3,000	286.50/M
	240	1.44	0.8	1.8	1	9.50	20	2.4	2.1	SOT-89	ZVN4525ZCT-ND	1.06	.80	ZVN4525ZTR-ND	1,000	300.90
	310	1.44	0.8	1.8	1	9	310	4.5	2.0	SOT-223	ZVN4525GCT-ND	1.09	.82	ZVN4525GTR-ND	1,000	307.70
450	140	0.6	1.0	3.0	1.0	50	0.10	10	2.0	SOT-223	ZVN0545GCT-ND	1.50	1.13	ZVN0545GTR-ND	1,000	425.00
P-Channel																
-200	-35	0.4	-1.5	-3.5	1	80	50	-10	0.33	SOT-23	ZVP1320FCT-ND◊	.68	.51	ZVP1320FTR-ND◊	3,000	192.10/M
-240	-480	-1.0	-0.7	-2.0	1.0	11	100	-3.5	2.5	SOT-223	ZVP4424GCT-ND	1.91	1.44	ZVP4424GTR-ND	1,000	540.60
-250	-197	-1	-0.8	-2	0.25	18	100	-3.5	1.1	SOT-23-6	ZVP4525E6CT-ND	1.10	.83	ZVP4525E6TR-ND	3,000	276.00/M
	-265	-1.0	-0.8	-2.0	1.0	18	.100	-3.5	2.0	SOT-223	ZVP4525GCT-ND	1.10	.83	ZVP4525GTR-ND	1,000	312.80
	-205	-1	-0.8	-2	1	18	100	-3.5	2.1	SOT-89	ZVP4525ZCT-ND	1.15	.86	ZVP4525ZTR-ND	1,000	324.70
-450	-75	-0.4	-1.5	-4.5	1.0	150	.050	-10	2.0	SOT-223	ZVP0545GCT-ND	1.81	1.36	ZVP0545GTR-ND	1,000	511.70

◊ RoHS Compliant

Avalanche

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) V Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	R_{DS} (on) V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
N-Channel															
60	600	8	1.3	3	1	1.5	500	5	0.7	TO-92	ZVN4206AV-ND	1.51	1.13	.68	.43
	1100	20	1.3	3	1	0.45	1500	5	1.1	TO-92	ZVN4306AV-ND	2.85	2.14	1.29	.81

BV_{DSS} (V)	I_D (mA)	I_{DM} (A)	V_{GS} (th) (V) Min.	V_{GS} (th) at Max.	V_{GS} (th) I_D (mA)	R_{DS} (on) (Ω) Max. @	R_{DS} (on) I_D (mA)	R_{DS} (on) V_{GS} (V)	P_D (W)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
N-Channel																
200	60	1	1	3	1	25	100	10	.300	SOT-23	ZVN3320FCT-ND	.66	.50	ZVN3320FTR-ND	3,000	165.00/M
60	1000	8.0	1.3	3.0	1.0	1.0	1.5	10	2.0	SOT-223	ZVN4206GVCT-ND	1.89	1.42	ZVN4206GVTR-ND	1,000	535.50
	2100	20	1.3	3.0	1.0	0.33	3.0	10	3.0	SOT-223	ZVN4306GVCT-ND	2.45	1.85	ZVN4306GVTR-ND	1,000	695.30

ZETEX SEMICONDUCTORS ***QS9000 Accredited!***

TO-92

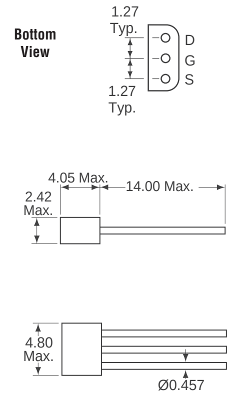

TO-220

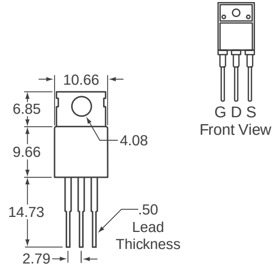

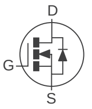

N-Channel

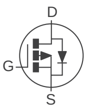

P-Channel

Voltage Supply Monitors

Typical V cc (V)	Threshold Voltage (V)	Typical Hysteresis (mV)	Maximum Output Sink Current (mA)	Input Voltage Range (V)	Maximum Quiescent Current (μA)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
3	2.63	20	60	1 ~ 6.5	200	TO-92	ZSM300C-ND	1.62	1.22	.73	.46
	2.68	20	60	1 ~ 10	190	TO-92	ZM331643C-ND	1.55	1.17	.70	.44
	3.1	20	50	-1 ~ 10	180	TO-92	ZSH330C-ND	1.62	1.22	.73	.46
3.3	3.08	20	60	1 ~ 6.5	200	TO-92	ZSM330C-ND	1.62	1.22	.73	.46
5	4.6	20	60	1 ~ 6.5	200	TO-92	ZM33064CL-ND	1.55	1.17	.70	.44
	4.3	20	60	1 ~ 6.5	200	TO-92	ZM33164CL-ND	1.55	1.17	.70	.44
	4.6	20	60	1 ~ 6.5	200	TO-92	ZSM560C-ND	1.89	1.42	.86	.54

Typical V cc (V)	Thresh-hold Voltage (V)	Typical Hysteresis (mV)	Maximum Output Sink Current (mA)	Input Voltage Range (V)	Maximum Quiescent Current (μA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
3	2.68	20	60	1 ~ 10	190	SO-8	ZM331643N8CT-ND	1.89	1.42	.86	—	—	—
	2.63	20	60	1 ~ 6.5	200	SO-8	ZSM300N8CT-ND	3.02	2.27	1.37	ZSM300N8TR-ND	500	529.20
	2.68	20	60	1 ~ 10	190	SOT-223	ZM331643GCT-ND	1.61	1.21	.73	ZM331643GTR-ND	1,000	455.60
	2.63	20	60	1 ~ 6.5	200	SOT-223	ZSM300GCT-ND	2.32	1.75	1.05	ZSM300GTR-ND	1,000	657.90
3.3	3.1	20	50	-1 ~ 10	180	SO-8	ZSH330N8CT-ND	3.16	2.38	1.43	ZSH330N8TR-ND	500	553.35
	3.08	20	60	1 ~ 6.5	200	SOT-223	ZSM330GCT-ND	2.32	1.75	1.05	ZSM330GTR-ND	1,000	657.90
	3.1	20	50	-1 ~ 10	180	SOT-223	ZSH330GCT-ND	2.42	1.82	1.09	ZSH330GTR-ND	1,000	685.10
5	4.6	20	60	1 ~ 6.5	200	SO-8	ZM33064N8CT-ND	1.89	1.42	.86	—	—	—
	4.6	20	60	1 ~ 6.5	200	SO-8	ZSM560N8CT-ND	3.02	2.27	1.37	ZSM560N8TR-ND	500	529.20
	4.6	20	50	-1 ~ 10	180	SO-8	ZSH560N8CT-ND	3.16	2.38	1.43	ZSH560N8TR-ND	500	553.35
	4.6	20	60	1 ~ 6.5	200	SOT-223	ZM33064GCT-ND	1.61	1.21	.73	ZM33064GTR-ND	1,000	455.60
	4.3	20	60	1 ~ 6.5	200	SOT-223	ZM33164GCT-ND	1.61	1.21	.73	ZM33164GTR-ND	1,000	455.60
	4.6	20	60	1 ~ 6.5	200	SOT-223	ZSM560GCT-ND	2.32	1.75	1.05	ZSM560GTR-ND	1,000	657.90
	4.6	20	60	1 ~ 7.0	200	SOT-223	ZSM561GCT-ND	2.32	1.75	1.05	—	—	—
	4.6	20	50	-1 ~ 10	180	SOT-223	ZSH560GCT-ND	2.42	1.82	1.09	—	—	—

SO-8
Top View

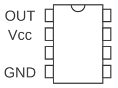

SOT-223
Top View

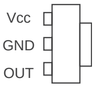

TO-92
Bottom View

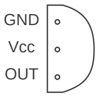

ZETEX Regulators

Low Dropout

V Out (V)	Dropout Voltage (mV)	I Maximum (mA)	Shutdown Current (µA)	Max. Load Regulation (mV)	Max. Line Regulation (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000
ZLDO Series - Ultra Low												
3.3	35	300	11	52	78	SM-8	ZLDO330T8CT-ND	2.94	2.21	1.33	ZLDO330T8TR-ND	833.00
4.85				69	119		ZLDO485T8CT-ND	2.94	2.21	1.33	ZLDO485T8TR-ND	833.00
5				70	123		ZLDO500T8CT-ND	2.94	2.21	1.33	ZLDO500T8TR-ND	833.00

V Out (V)	Dropout (mV)@IL =50mA	Maximum Load I(mA)	Shutdown I(µA)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
ZXCL Series - Very Small Micropower										
2.50	85	100	0.01	SC-70	ZXCL250H5TACT-ND	1.04	.79	.47	ZXCL250H5TATR-ND	261.00/M
				SC70-5	ZXCL5213V25H5CT-ND	1.04	.79	.47	ZXCL5213V25H5TR-ND	261.00/M
				SOT23-5	ZXCL250E5TACT-ND	1.04	.79	.47	ZXCL250E5TATR-ND	261.00/M
2.60	85	150	0.01	SC-70	ZXCL260H5CT-ND	.66	.50	.30	ZXCL260H5TR-ND	165.00/M
				SOT23-5	ZXCL260E5CT-ND	.66	.50	.30	ZXCL260E5TR-ND	165.00/M
2.80	85	150	0.01	SC-70	ZXCL280H5CT-ND	1.04	.79	.47	ZXCL280H5TR-ND	261.00/M
				SOT23-5	ZXCL280E5CT-ND	1.32	.99	.60	ZXCL280E5TR-ND	330.00/M
3.00	85	150	0.01	SC-70	ZXCL300H5CT-ND	1.04	.79	.47	ZXCL300H5TR-ND	261.00/M
				SC70-5	ZXCL5213V30H5CT-ND	1.04	.79	.47	ZXCL5213V30H5TR-ND	261.00/M
				SOT23-5	ZXCL300E5CT-ND	1.04	.79	.47	ZXCL300E5TR-ND	261.00/M
3.30	85	150	0.01	SC-70	ZXCL330H5CT-ND	.66	.50	.30	ZXCL330H5TR-ND	165.00/M
				SC70-5	ZXCL5213V33H5CT-ND	1.04	.79	.47	ZXCL5213V33H5TR-ND	261.00/M
				SOT23-5	ZXCL330E5CT-ND	.66	.50	.30	ZXCL330E5TR-ND	165.00/M
4.00	85	150	0.01	SC-70	ZXCL400H5TACT-ND	1.04	.79	.47	ZXCL400H5TATR-ND	261.00/M
				SOT23-5	ZXCL400E5TACT-ND	1.04	.79	.47	ZXCL400E5TATR-ND	261.00/M

Voltage

Output Voltage	Maximum Output Current (mA)	Maximum Quiescent Current (µA)	Typical Dropout Voltage	Max. Line Reg. (mV)	Max. Load Reg. (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
ZMR Series - Miniature												
2.5	50	40	1.7	15	30	SOT-23	ZMR250FCT-ND	1.47	1.11	.67	ZMR250FTR-ND	367.50/M
						TO-92	ZMR250C-ND*	1.41	1.06	.64	—	—
3.3	50	170	1.7	10	50	SOT-23	ZMR330FCT-ND	1.43	1.08	.65	ZMR330FTR-ND	357.00/M
5.0	50	70	1.7	15	40	SOT-23	ZMR500FCT-ND	1.63	1.23	.74	ZMR500FTR-ND	408.00/M
						TO-92	ZMR500C-ND*	1.41	1.06	.64	—	—

* Bulk Pricing

Output Voltage	Maximum Output Current (mA)	Ptot (W)	Max. Line Regulation (mV)	Max. Load Regulation (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
ZSR Series - Fixed												
2.85	200	0.78	40	25	SO-8	ZSR285N8CT-ND	3.02	2.27	1.37	ZSR285N8TR-ND	500	529.20
3.0	200	0.78	40	25	SO-8	ZSR300N8CT-ND	3.02	2.27	1.37	—	—	—
3.3	200	2.0	30	25	SOT-223	ZSR330GCT-ND	1.81	1.36	.82	ZSR330GTR-ND	1,000	511.70
4.0	200	0.78	40	25	SO-8	ZSR400N8CT-ND	3.02	2.27	1.37	ZSR400N8TR-ND	500	529.20
4.85	200	2.78	40	25	SOT-223	ZSR485GTACT-ND	1.80	1.35	.81	ZSR485GTATR-ND	2,000	510.00/M
4.85	200	0.78	40	25	SO-8	ZSR485N8CT-ND	3.02	2.27	1.37	ZSR485N8TR-ND	500	529.20
5.0	200	2.0	40	25	SOT-223	ZSR500GCT-ND	1.81	1.36	.82	ZSR500GTR-ND	1,000	511.70
5.2	200	0.78	40	25	SO-8	ZSR520N8CT-ND	3.02	2.27	1.37	ZSR520N8TR-ND	500	529.20
5.7	200	0.78	40	30	SO-8	ZSR570N8CT-ND	3.02	2.27	1.37	ZSR570N8TR-ND	500	529.20
6.0	200	2.0	40	30	SOT-223	ZSR600GCT-ND	1.81	1.36	.82	ZSR600GTR-ND	1,000	511.70
	200	0.78	40	30	SO-8	ZSR600N8CT-ND	3.02	2.27	1.37	ZSR600N8TR-ND	500	529.20
7.0	200	0.78	40	25	SO-8	ZSR700N8CT-ND	3.02	2.27	1.37	ZSR700N8TR-ND	500	529.20
10.0	200	2.0	40	30	SOT-223	ZSR1000GCT-ND	1.81	1.36	.82	ZSR1000GTR-ND	1,000	511.70
	200	0.78	40	30	SO-8	ZSR1000N8CT-ND	3.02	2.27	1.37	—	—	—

Output Voltage	Maximum Output Current (mA)	Ptot (W)	Maximum Line Regulation (mV)	Maximum Load Regulation (mV)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100	1,000
ZR78L Series, Local										
8.5	200	0.6	40	30	TO-92	ZR78L085C-ND	1.08	.81	.49	.31

Output Voltage	Maximum Output Current (mA)	Ptot (W)	Max. Line Regulation (mV)	Max. Load Regulation (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
ZR78L Series, Local											
2.85	200	2	40	25	SOT-223	ZR78L028GCT-ND	1.61	1.21	.73	ZR78L028GTR-ND	455.60
6.0	200	2	40	30	SOT-223	ZR78L06GCT-ND	1.61	1.21	.73	ZR78L06GTR-ND	455.60

ZETEX QS9000 Accredited!

Low Dropout Regulators

SC70/ SC70-5

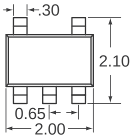

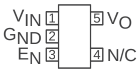

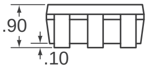

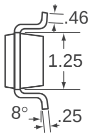

SM-8

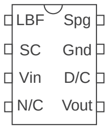

SOT23-5

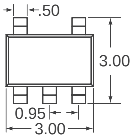

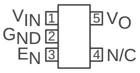

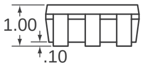

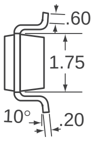

(Continued)

Output Voltage (V)	Max. Output Current (mA)	Ptot (W)	Max. Line Regulation (mV)	Max. Load Regulation (mV)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000
ZR78L Series, Local (Cont.)											
10.0	200	2	40	30	SOT-223	ZR78L10GCT-ND	1.61	1.21	.73	ZR78L10GTR-ND	455.60

Shunt Voltage References

Reference Voltage	Output Voltage Min.	Maximum	Min. Operating Current (µA)	Tolerance (%)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	10	100
ZR431 Series - Programmable									
1.24	1.24	10	30	1	TO-92	ZR431LC01-ND	1.38	1.04	.63
	1.24	10	30	2.5	TO-92	ZR431LC02L-ND	1.13	.85	.51
2.5	2.5	20	50	2	TO-92	ZR431C-ND	1.08	.81	.49
	2.5	20	50	1	TO-92	ZR431C01-ND	1.21	.91	.55

Reference Voltage	Output Voltage Min.	Max.	Min. Operating Current (µA)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
ZR431 Series - Programmable												
1.24	1.24	15	30	1	SOT-23	ZR2431F01CT-ND	1.74	1.31	.79	ZR2431F01TR-ND	3,000	435.00/M
	1.24	15	30	2.5	SOT-23	ZR2431F02CT-ND	1.32	.99	.60	ZR2431F02TR-ND	3,000	330.00/M
	1.24	15	30	1	SO-8	ZR2431N801CT-ND	2.79	2.10	1.26	ZR2431N801TR-ND	500	488.25
	1.24	15	30	2.5	SO-8	ZR2431N802CT-ND	2.61	1.96	1.18	ZR2431N802TR-ND	500	456.75
	1.24	10	30	1	SOT-23	ZR431LF01CT-ND	1.47	1.11	.67	ZR431LF01TR-ND	3,000	367.50/M
	1.24	10	30	2.5	SOT-23	ZR431LF02CT-ND	1.15	.87	.52	ZR431LF02TR-ND	3,000	288.00/M
2.5	2.5	20	50	2	SOT-23	ZR431FCT-ND	1.00	.75	.45	ZR431FTR-ND	3,000	249.00/M
	2.5	20	50	0.5	SOT-23	ZR431F005TACT-ND	1.59	1.20	.72	ZR431F005TATR-ND	3,000	397.50/M
	2.5	20	50	1	SOT-23	ZR431F01CT-ND	1.15	.87	.52	ZR431F01TR-ND	3,000	288.00/M

V_0 (V)	DVref (mV) Typ.	Max.	Iref (mA) Min.	Max.	Slope Resistance Typ.	Max.	Trim Range	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	T & R Pricing 1,000
ZRT Trimmable														
2.5	2.7	8.8	0.15	75	0.85	2	5.0%	SOT-223	ZRT025GC1CT-ND	1.97	1.41	1.13	ZRT025GC1TR-ND	705.00
4.0	4.2	14.0	0.15	75	1.1	3	5.0%	SOT-223	ZRT040GC1CT-ND	1.97	1.41	1.13	ZRT040GC1TR-ND	705.00
5.0	5.4	17.2	0.15	60	1.25	2	5.0%	SOT-223	ZRT050GC1CT-ND	1.97	1.41	1.13	ZRT050GC1TR-ND	705.00
6.2	6.5	22.0	0.15	50	1.4	3	5.0%	SOT-223	ZRT062GC1CT-ND	1.97	1.41	1.13	ZRT062GC1TR-ND	705.00
9.8	10.8	34.4	0.15	30	1.8	4	2.5%	SOT-223	ZRT100GC1CT-ND	1.97	1.41	1.13	ZRT100GC1TR-ND	705.00

Reverse Breakdown Voltage	Min. Current (µA)	Maximum Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ohms)	Tolerance (%)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	25	100	1,000
ZR Series - Fixed, Precision Micropower											
2.45/2.55	20	5	90	1.0	2	TO-92	ZRC250A02-ND	1.10	.79	.48	.40
2.5	20	5	90	1.0	1	TO-92	ZRC250A01-ND	1.35	.97	.59	.49
	20	5	90	1.0	3	TO-92	ZRC250A03-ND	1.00	.72	.43	.36
	20	5	90	1.0	3	TO-92	ZRC250R03-ND	1.00	.72	.43	.36
	50	20	90	2	1	TO-92	ZR40401R25-ND	1.35	.97	.59	.49
	50	20	90	2	2	TO-92	ZR40402R25-ND	1.10	.79	.48	.40
3.3	20	5	50	2.0	1	TO-92	ZRC330A01-ND	1.35	.97	.59	.49
	20	5	50	2.0	3	TO-92	ZRC330A03-ND	1.00	.72	.43	.36
4.0	23	5	90	2.0	2	TO-92	ZRC400A02-ND	1.10	.79	.48	.40
4.096	23	5	90	2.0	1	E-Line – TO92	ZRC400A01-ND	1.35	.97	.59	.49
	50	20	90	2	2	TO-92	ZR40402R41-ND	1.10	.79	.48	.40
5.0	50	15	50	1.5	1	TO-92	ZRB500A01-ND	1.35	.97	.59	.49
	50	15	50	1.5	3	TO-92	ZRB500A03-ND	1.86	.72	.43	.36
	25	5	90	2.0	2	TO-92	ZRC500A02-ND	1.10	.79	.48	.40
	25	5	90	2.0	1	E-Line – TO92	ZRC500A01-ND	1.35	.97	.59	.49
	50	20	90	1.5	1	TO-92	ZR40401R50-ND	1.35	.97	.59	.49
	50	20	90	1.5	2	TO-92	ZR40402R50-ND	1.10	.79	.48	.40

Reverse Breakdown Voltage	Min. Current (µA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ohms)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing
ZR Series - Fixed, Precision Micropower													
2.5	2000	120	50	0.5	1	SOT-23	ZRA245F01CT-ND	1.28	.92	.74	—	—	—
	2000	120	50	0.5	3	SOT-23	ZRA245F03CT-ND	.95	.68	.55	ZRA245F03TR-ND	3,000	340.00/M
	2000	120	50	0.5	1	SO-8	ZRA245N801CT-ND	1.56	1.12	.89	—	—	—
	2000	120	50	0.5	3	SO-8	ZRA245N803CT-ND	1.25	.90	.72	ZRA245N803TR-ND	500	238.07
	20	5	90	1	1	SOT-23	ZRC250F01CT-ND	1.28	.92	.74	ZRC250F01TR-ND	3,000	458.75/M

Voltage Regulators

Miniature

SOT-23
Top View

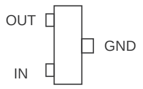

TO-92
Bottom View

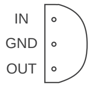

Fixed/Local

SO-8
Top View

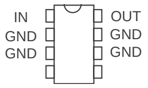

SOT-223
Top View

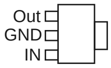

TO-92
Bottom View

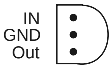

Shunt Voltage References

Programmable

SO-8
Top View

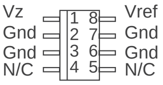

SOT-23
Top View

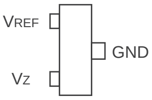

TO-92
Bottom View

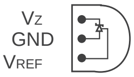

(Continued)

Reverse Breakdown Voltage	Min. Current (µA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ohms)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing
ZR Series - Fixed, Precision Micropower (Cont.)													
2.5	20	5	90	1	2	SOT-23	ZRC250F02CT-ND	1.05	.75	.60	ZRC250F02TR-ND	3,000	373.75/M
	20	5	90	1	3	SOT-23	ZRC250F03CT-ND	.95	.68	.55	ZRC250F03TR-ND	3,000	340.00/M
	20	5	90	1.0	3	SO-8	ZRC250N803CT-ND	1.25	.90	.72	ZRC250N803TR-ND	500	238.07
	20	20	90	1	2	SOT-23	ZR285F02CT-ND	1.77	1.27	1.02	ZR285F02TR-ND	3,000	632.50/M
	20	20	90	1	3	SOT-23	ZR285F03CT-ND	1.55	1.11	.89	ZR285F03TR-ND	3,000	552.50/M
	20	20	90	1.0	2	SO-8	ZR285N802CT-ND	1.87	1.34	1.07	ZR285N802TR-ND	500	355.11
	20	20	90	1.0	3	SO-8	ZR285N803CT-ND	1.82	1.30	1.04	ZR285N803TR-ND	500	345.14
	25	60	30	0.4	0.5	SOT-23	ZR404005F25TACT-ND	1.77	1.27	1.02	ZR404005F25TATR-ND	3,000	632.50/M
	50	20	90	2	1	SOT-23	ZR40401F25CT-ND	1.28	.92	.74	ZR40401F25TR-ND	3,000	458.75/M
	50	20	90	2	2	SOT-23	ZR40402F25CT-ND	1.05	.75	.60	ZR40402F25TR-ND	3,000	373.75/M
	50	20	90	2.0	2	SO-8	ZR40402N825CT-ND	1.35	.97	.78	ZR40402N825TR-ND	500	257.36
3.3	20	5	50	2	1	SOT-23	ZRC330F01CT-ND	1.28	.92	.74	ZRC330F01TR-ND	3,000	550.50/M
	20	5	50	2	2	SOT-23	ZRC330F02CT-ND	1.05	.75	.60	ZRC330F02TR-ND	3,000	373.75/M
	20	5	50	2	3	SOT-23	ZRC330F03CT-ND	.95	.68	.55	ZRC330F03TR-ND	3,000	340.00/M
	20	5	50	2.0	1	SO-8	ZRC330N801CT-ND	1.56	1.12	.89	ZRC330N801TR-ND	500	295.93
	20	5	50	2.0	3	SO-8	ZRC330N803CT-ND	1.25	.90	.72	ZRC330N803TR-ND	500	238.07
4.096	50	20	90	2	1	SOT-23	ZR40401F41CT-ND	1.28	.92	.74	ZR40401F41TR-ND	3,000	458.75/M
	50	20	90	2	2	SOT-23	ZR40402F41CT-ND	1.05	.75	.60	ZR40402F41TR-ND	3,000	373.75/M
5.0	50	15	50	1.5	1	SOT-23	ZRB500F01CT-ND	1.28	.92	.74	ZRB500F01TR-ND	3,000	458.75/M
	50	15	50	1.5	2	SOT-23	ZRB500F02CT-ND	1.05	.75	.60	ZRB500F02TR-ND	3,000	373.75/M
	50	15	50	1.5	3	SOT-23	ZRB500F03CT-ND	.95	.68	.55	ZRB500F03TR-ND	3,000	340.00/M
	50	15	50	1.5	3	SO-8	ZRB500N803CT-ND	1.25	.90	.72	ZRB500N803TR-ND	500	238.07
	50	20	90	1.5	1	SOT-23	ZR40401F50CT-ND	1.28	.92	.74	ZR40401F50TR-ND	3,000	458.75/M
	50	20	90	1.5	2	SOT-23	ZR40402F50CT-ND	1.05	.75	.60	ZR40402F50TR-ND	3,000	373.75/M
	50	20	90	1.5	2	SO-8	ZR40402N850CT-ND	1.35	.97	.78	ZR40402N850TR-ND	500	257.36

Reverse Breakdown Voltage	Min. Current (µA)	Maximum Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ohms)	Tolerance (%)	Packaging Type	Digi-Key Part No.	Loose Piece Price Each 1	25	100	1,000
ZXRE Series - Very Low Quiescent Current Precision											
1.22	8	20	75	0.5	1	TO-92	ZXRE1004DR-ND	2.50	1.79	1.08	.90
	30	5	90	0.5	1	TO-92	ZXRE125DR-ND	1.35	.97	.59	.49
	30	5	90	0.5	2	TO-92	ZXRE125ER-ND	1.10	.79	.48	.40
	30	5	90	0.5	3	TO-92	ZXRE125FR-ND	1.00	.72	.43	.36
1.225	30	12	75	0.5	1	TO-92	ZXRE4041DR-ND	1.35	.97	.59	.49

Reverse Breakdown Voltage	Min. Current (µA)	Max. Current (mA)	Max. Temp. Coefficient (ppm/°C)	Max. Slope Resistance (Ohms)	Tol. (%)	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing
ZXRE Series - Very Low Quiescent Current Precision													
1.22	8	20	75	0.5	0.5	SOT-23	ZXRE1004CFCT-ND	1.76	1.26	1.01	ZXRE1004CFTR-ND	3,000	630.00/M
	8	20	75	0.5	1	SOT-23	ZXRE1004DFCT-ND	1.25	.90	.72	ZXRE1004DFTR-ND	3,000	447.50/M
	8	20	75	0.5	1	SO-8	ZXRE1004DN8CT-ND	2.50	1.79	1.43	ZXRE1004DN8TR-ND	500	474.81
	8	20	75	0.5	2	SOT-23	ZXRE1004EFCT-ND	1.05	.76	.61	ZXRE1004EFTR-ND	3,000	376.25/M
	8	20	75	0.5	2	SO-8	ZXRE1004EN8CT-ND	2.13	1.53	1.22	ZXRE1004EN8TR-ND	500	404.99
	4	20	75	0.6	3	SOT-23	ZXRE1004FFCT-ND	.95	.68	.55	ZXRE1004FFTR-ND	3,000	340.00/M
	8	20	75	0.5	3	SO-8	ZXRE1004FN8CT-ND	1.97	1.41	1.13	ZXRE1004FN8TR-ND	500	375.06
	30	5	90	0.5	0.5	SOT-23	ZXRE125CFCT-ND	1.76	1.26	1.01	ZXRE125CFTR-ND	3,000	630.00/M
	30	5	90	0.5	1	SOT-23	ZXRE125DFCT-ND	1.28	.92	.74	ZXRE125DFTR-ND	3,000	458.75/M
	30	5	90	0.5	1	SO-8	ZXRE125DN8CT-ND	1.56	1.12	.89	—	—	—
	30	5	90	0.5	2	SOT-23	ZXRE125EFCT-ND	1.05	.75	.60	ZXRE125EFTR-ND	3,000	373.75/M
	30	5	90	0.5	2	SO-8	ZXRE125EN8CT-ND	1.35	.97	.78	ZXRE125EN8TR-ND	500	257.36
	30	5	90	0.5	3	SOT-23	ZXRE125FFCT-ND	.95	.68	.55	ZXRE125FFTR-ND	3,000	340.00/M
	30	5	90	0.5	3	SO-8	ZXRE125FN8CT-ND	1.00	.72	.58	ZXRE125FN8TR-ND	500	190.19
1.225	30	12	75	0.5	0.5	SOT-23	ZXRE4041CFCT-ND	1.76	1.26	1.01	ZXRE4041CFTR-ND	3,000	630.00/M
	30	12	75	0.5	1	SOT-23	ZXRE4041DFCT-ND	1.28	.92	.74	ZXRE4041DFTR-ND	3,000	458.75/M
	30	12	75	0.5	1	SO-8	ZXRE4041DN8CT-ND	1.56	1.12	.89	ZXRE4041DN8TR-ND	500	295.93
	30	12	75	0.5	2	SOT-23	ZXRE4041EFCT-ND	1.05	.75	.60	ZXRE4041EFTR-ND	3,000	373.75/M
	30	12	75	0.5	2	SO-8	ZXRE4041EN8CT-ND	1.35	.97	.78	ZXRE4041EN8TR-ND	500	257.36
	30	12	75	0.5	3	SO-8	ZXRE4041FN8CT-ND	1.25	.90	.72	ZXRE4041FN8TR-ND	500	238.07

Supply Voltage Monitors

ZXCM Series - Very Low Power

Typical Vcc (V)	Threshold Voltage	Threshold Voltage Tolerance (%)	Min. Reset Period (ms)	Reset Active	Packaging Type	Digi-Key Part No.	Cut Tape Price Each 1	25	100
5	4.63	1	140	High	SOT-23	ZXCM210LFCT-ND	.71	.61	.56

Shunt Voltage References (Cont.)

Trimmable

SOT-223
Top View

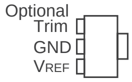

Micropower

SO-8
Top View

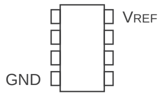

SOT-23
Top View

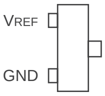

E-Line – TO-92 and TO-92
Bottom View

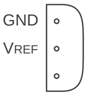

Pkg. Suffix R

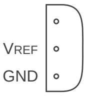

Pkg. Suffix A

Supply Voltage Monitor

SOT-23

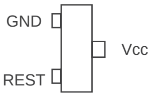

Zetex provides high value, system level solutions based on a unique portfolio of integrated, discrete and combination analog products.

Lighting ICs

The inherent flexibility of the ZXSC circuit means that parallel or series LEDs can be driven depending on application needs. A simple modification to the application circuit means that the maximum pulse current can be programmed to match the characteristics of the chosen LED load and pulse current in the range 10mA to 3A and beyond can be easily achieved.

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			1	25	100		Size	Pricing
Boost Converter for LCD Bias	10-MSOP	ZXLB1600X10TACT-ND	2.66	2.28	2.09	ZXLB1600X10TATR-ND	1,000	1292.00
Boost Converter LED Driver with Switch	SC70-6	ZXLD1100H6CT-ND	2.82	2.42	2.22	ZXLD1100H6TR-ND	3,000	1209.00/M
Boost Converter LED Driver with Switch	SC70-6	ZXLD1100H6CT-ND◊	2.82	2.42	2.22	UZXLD1100H6TR-ND◊	3,000	1209.00/M
Boost Converter LED Driver with Switch	TSOT23-5	ZXLD1101ET5CT-ND	2.50	2.15	1.97	ZXLD1101ET5TR-ND	3,000	1071.00/M
Boost Converter LED Driver with Switch	TSOT23-5	ZXLD1937ET5CT-ND◊	1.31	.94	.75	ZXLD1937ET5TR-ND◊	3,000	634.10/M
Boost Converter Adjustable DC/DC with Switch	SC70-6	ZXLD1601H6CT-ND◊	1.61	1.15	.92	ZXLD1601H6TR-ND◊	3,000	782.00/M
Boost Converter, 1 Cell	MSOP-8	ZXSC100X8CT-ND	1.97	1.70	1.56	—	—	—
Boost Converter, 1 Cell LED	SOT23-5	ZXSC300E5CT-ND	1.00	.86	.79	ZXSC300E5TR-ND	3,000	514.80/M
Boost Converter, 1 Cell LED	SOT23-5	ZXSC310CT-ND	1.38	1.26	1.09	ZXSC310TR-ND	3,000	589.50/M
Evaluation Board for ZXSC310E5TA	—	ZXSC310EV-ND*	55.10	—	—	—	—	—
Boost Converter LED Driver with Shutdown	SOT23-6	ZXSC400E6TACT-ND	1.72	1.47	1.35	ZXSC400E6TATR-ND	3,000	735.00/M
Adjustable DC/DC Boost Converter with Internal Switch	TSOT23-5	ZXLD1615ET5CT-ND	2.24	1.68	1.12	ZXLD1615ET5TR-ND	3,000	671.40/M

* Bulk Pricing ◊ **RoHS Compliant**

Current and Sense Monitors

The ZXCT range of high side current monitors and current sense amplifiers provides elegant design solutions for current measurement and power control. **ZXCT1009:** This current sensing monitor takes a high side voltage developed across a current shunt resistor and translates it into a scaled ground referenced current. **ZXCT1010:** Offers reduced typical offset and improved accuracy at low sense voltages. **ZXCT1021/1022:** These current sense amplifiers are particularly suited to low sense voltage applications.

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			1	25	100		Size	Pricing
High-Side Current Monitor	SOT-23	ZXCT1009FCT-ND	.95	.82	.75	ZXCT1009FTR-ND	3,000	408.00/M
High-Side Current Monitor	SOT-23	ZXCT1008FCT-ND◊	1.05	.75	.60	ZXCT1008FTR-ND◊	3,000	405.00/M
High-Side Current Monitor	SM-8	ZXCT1009T8CT-ND	1.46	1.25	1.15	ZXCT1009T8TR-ND	1,000	707.20
High-Side Current Monitor	SOT23-5	ZXCT1011E5CT-ND	2.27	1.71	1.03	ZXCT1011E5TR-ND	3,000	568.50/M
Current Monitor	SOT23-5	ZXCT1010CT-ND	1.20	1.11	.95	ZXCT1010TR-ND	3,000	619.20/M
High-Side Current Monitor	SOT23-5	ZXCT1021E5TACT-ND	1.46	1.25	1.15	ZXCT1021E5TATR-ND	3,000	624.00/M
High Side Current Monitor	SOT23-5	ZXCT1022E5TACT-ND	1.46	1.25	1.15	ZXCT1022E5TATR-ND	3,000	624.00/M
High Side Current Monitor with Comparator	8-MSOP	ZXCT1030X8TACT-ND	2.34	2.01	1.84	ZXCT1030X8TATR-ND	1,000	1137.30
Current Sensor AC/DC 5A	SM-8	ZMC05TACT-ND	7.25	6.21	5.70	ZMC05TATR-ND	1,000	3519.00
Current Sensor using Magnetic Sensing 10A	14-DIL	ZMC10-ND†	15.30	11.48	6.89	—	—	—
Double Current Sensor using Magnetic Sensing 10A	14-DIL	ZMC10D-ND†	18.72	14.04	8.43	—	—	—
Current Mirror	SM-8	ZDS1009CT-ND	2.57	2.21	2.03	—	—	—

† Tube Pricing ◊ **RoHS Compliant**

Analog Video Products

The Zetex range of video solutions has been expanded by the addition of a sync separator and a DC restore amplifier. **ZXFV4583:** Separates out the embedded sync information from PAL, NTSC, SECAM and other analog video signals. **ZXFV4089:** Uses a sync pulse (typically from a sync separator) to restore the video black level to the correct DC voltage. The high speed amplifiers/buffers include quad and single amplifiers plus multi-channel unity-gain buffers. **ZXFV202:** Single video amplifier is available in SOT23 and SO8 offering superb differential gain and phase performance of 0.01%/0.01° respectively. **ZXFV301N16/ ZXFV302N16:** 4:1 multiplexers are for use in video and other high speed applications. **ZXFV301/302:** With greater versatility, they have different channel selection plus an output enable.

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			1	25	100		Size	Pricing
Hi-Performance Sync Separator	16-SOIC	ZXFV4583N16CT-ND	9.19	7.88	7.22	—	—	—
Dual Video Amplifiers	8-SOIC	ZXFV204N8CT-ND	5.88	4.41	2.94	—	—	—
Video DC Restore Amplifier	8-SOIC	ZXFV4089N8CT-ND	4.14	3.55	3.26	ZXFV4089N8TR-ND	500	1182.00
4:1 Channel G1 Video Multiplexer - 4 Pin Control	16-SOIC	ZXFV301N16CT-ND	7.09	6.08	5.57	ZXFV301N16TR-ND	500	2126.25
4:1 Channel G1 Video Multiplexer - 2 Bit Control	16-SOIC	ZXFV302N16TACT-ND	7.09	6.08	5.57	ZXFV302N16TATR-ND	500	1346.63
1 Channel 300MHz CFB Amplifier	SOT23-5	ZXFV202E5CT-ND	1.72	1.47	1.35	ZXFV202E5TR-ND	3,000	735.00/M
1 Channel 300MHz CFB Amplifier	8-SOIC	ZXFV202N8TACT-ND	1.72	1.47	1.35	ZXFV202N8TATR-ND	500	514.50
4 Channel 300MHz CFB Amplifier	14-SOIC	ZXFV201N14CT-ND	4.14	3.55	3.26	ZXFV201N14TR-ND	500	1241.10
4 Channel Buffer	14-SOIC	ZXFBF04N14CT-ND	3.31	2.84	2.60	ZXFBF04N14TR-ND	500	992.25
4 Channel High Capacitance Buffer	14-SOIC	ZXFBF05N14CT-ND	3.31	2.84	2.60	ZXFBF05N14TR-ND	500	992.25
8 Channel Buffer	20-SOIC(W)	ZXFBF08W20CT-ND	5.25	4.50	4.13	ZXFBF08W20TR-ND	1,000	2550.00
Triple Amplifier Video	14-SOIC	ZXFV203N14CT-ND	3.82	3.27	3.00	ZXFV203N14TR-ND	500	1144.50
Evaluation Board for ZXFV103Q16CT	—	ZXF103EV-ND*	31.20	—	—	—	—	—
Variable Q Notch/Bandpass Filter	24-SOIC(W)	ZXF36L01W24-ND*	13.37	10.79	7.50	—	—	—
Evaluation Board for ZXF36L01W24	—	ZXF36L01-EVB-ND*	24.00	—	—	—	—	—
Evaluation Board for ZXFV4583/ ZXFV4089	—	ZXFV4583EV-ND*	135.00	—	—	—	—	—
Evaluation Board for ZXFV302	—	ZXFV302EV-ND*	90.00	—	—	—	—	—
Evaluation Board for ZXFV203	—	ZXFV203EV-ND*	270.00	—	—	—	—	—
Evaluation Board for ZXFV202	—	ZXFV202N8EV-ND*	90.00	—	—	—	—	—
Evaluation Board for ZXFV201, Quad Video Amplifier	—	ZXFV201EV-ND*	90.00	—	—	—	—	—

* Bulk Pricing

(Continued)

DC - DC Controllers

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			1	25	100		Size	Pricing
Evaluation Board for ZXSC100	—	ZXSC100-EVAL-ND*	50.00	—	—	—	—	—
Boost Converter, 1 Cell	8-SOIC	ZXSC100N8CT-ND	1.97	1.70	1.56	ZXSC100N8TR-ND	500	592.20
Boost Converter	SOT23-6	ZXSC410E6TACT-ND	1.56	1.34	1.23	ZXSC410E6TATR-ND	3,000	667.50/M
Boost Converter	SOT23-6	ZXSC420E6TACT-ND	1.56	1.34	1.23	ZXSC420E6TATR-ND	3,000	667.50/M
Switched Capacitor DC to DC Converter	SOT23-6	ZXCP330E6TACT-ND	1.97	1.70	1.56	—	—	—
Adjustable PWM DC/DC Controller	16-QSOP	ZXRD100ANQ16CT-ND	4.28	3.22	1.93	ZXRD100ANQ16TR-ND	500	474.81
Adjustable PWM DC/DC Controller	16-QSOP	ZXRD100APQ16CT-ND	4.28	3.22	1.93	ZXRD100APQ16TR-ND	500	474.81
3.3V PWM DC/DC Controller	16-QSOP	ZXRD1033NQ16CT-ND	4.28	3.22	1.93	ZXRD1033NQ16TR-ND	500	474.81
3.3V PWM DC/DC Controller	16-QSOP	ZXRD1033PQ16CT-ND	4.28	3.22	1.93	ZXRD1033PQ16TR-ND	500	474.81
5.0V PWM DC/DC Controller	16-QSOP	ZXRD1050NQ16CT-ND	4.28	3.22	1.93	ZXRD1050NQ16TR-ND	500	474.81
5.0V PWM DC/DC Controller	16-QSOP	ZXRD1050PQ16CT-ND	4.28	3.22	1.93	ZXRD1050PQ16TR-ND	500	474.81

* Bulk Pricing

Special Function ICs

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			1	25	100		Size	Pricing
Precision Single Cell Timer	8-DIP	ZSCT1555D8-ND†	3.47	2.61	1.57	—	—	—
Precision Single Cell Timer	8-SOIC	ZSCT1555N8CT-ND	2.03	1.74	1.60	ZSCT1555N8TR-ND	500	607.95
Complementary 60V Enhancement Mode Mosfet H-Bridge	SM-8	ZXMHC6A07T8CT-ND	1.97	1.70	1.56	ZXMHC6A07T8TR-ND	1,000	958.80
Complementary 100V Enhancement Mode Mosfet H-Bridge	SM-8	ZXMHC10A07T8CT-ND	3.38	2.54	1.53	ZXMHC10A07T8TR-ND	1,000	958.80

† Tube Pricing

Switching Audio Amplifier Solutions

Zetex brings together vast device design expertise with advanced product capability and many years of audio systems design to create innovative audio solutions which meet all of these needs: • Exceptional sound quality • A smaller space • Less power • Affordable price

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			1	25	100		Size	Pricing
50W Class D Evaluation Board	—	ZXCD50STEVAL-ND*	133.00	—	—	—	—	—
Class D Amplifier Controller IC	QSOP-16	ZXCD1000EQ16CT-ND	10.92	9.36	8.58	ZXCD1000EQ16TR-ND	500	3276.00
Class D Audio Amplifier Solution Kit, Mono	—	ZXCD1000MOKIT-ND*	12.30	9.71	7.10	—	—	—
Class D Audio Amplifier Solution Kit, Stereo	—	ZXCD1000STKIT-ND*	24.92	19.68	14.36	—	—	—
24-Bit, Audio Stereo Amp	28-SSOP	ZXCW6100S28CT-ND	11.90	10.20	9.35	ZXCW6100S28TR-ND	1,500	5780.00/M
32-Bit, Digital Amplifier Controller IC	28-SSOP	ZXCW8100S28CT-ND	17.06	14.63	13.41	ZXCW8100S28TR-ND	1,500	8287.50/M
24 Bit, Stereo Direct Drive Digital Audio Amplifier	28-SSOP	ZXCW6100S28TCCT-ND	13.13	11.25	10.32	ZXCW6100S28TCTR-ND	1,500	6375.00/M

* Bulk Pricing

Motor and Fan Controllers

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			1	25	100		Size	Pricing
Brushless Fan Motor Controller with Rotor Lock and Speed Pulse	MSOP10	ZXBM2001X10TACT-ND	1.51	1.30	1.19	ZXBM2001X10TATR-ND	1,000	732.70
Brushless Fan Motor Controller with Rotor Lock	MSOP10	ZXBM2002X10TACT-ND	1.41	1.21	1.11	ZXBM2002X10TATR-ND	1,000	683.40
Brushless Fan Motor Controller with Speed Pulse	MSOP10	ZXBM2003X10TACT-ND	1.41	1.21	1.11	ZXBM2003X10TATR-ND	1,000	683.40
Brushless H-Bridge Motor Controller Single-Phase with Var. Speed	TSSOP-20	ZXBM1015ST20CT-ND◊	5.28	3.96	2.38	ZXBM1015ST20TR-ND◊	2,500	1496.00/M
Variable Speed, Single-Phase DC Brushless Motor Controller	16-QSOP	ZXBM1004Q16CT-ND	3.54	2.66	1.77	ZXBM1004Q16TR-ND	500	619.50
Variable Speed, 2-Phase Fan Motor Controller for Thermistor Control	16-QSOP	ZXBM2004Q16TACT-ND	1.97	1.70	1.56	ZXBM2004Q16TATR-ND	500	592.20

◊ **RoHS Compliant**

Magnetic Field Sensors

Extremely sensitive magnetic sensors utilizing the magnetoresistive properties of thin film permalloy. They are also incorporated into a range of low insertion loss and high isolation current sensors.

Features:

• ZMZ20 – E-Line 4-pin and ZMY20 – SOT-223 packages • ZMY20M and ZMZ20M with internal magnet • ZMX40M with dual sensor • Output voltage proportional to magnetic field Hy • Measures fields parallel to the chip

Applications:

• Linear position measurement • Angular position measurement • Navigation (electronic compass) • Revolution measurement

Description	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
			1	25	100		Size	Pricing
Magnetic Field Sensor with Internal Magnet	SOT-223	ZMY20MTACT-ND	4.92	4.23	3.87	ZMY20MTATR-ND	1,000	2391.90
Magnetic Field Sensor without Internal Magnet	SOT-223S	ZMY20TACT-ND	4.23	3.63	3.33	ZMY20TATR-ND	1,000	2055.30
Magnetic Field Sensor 4 Pin	E-Line 4	ZMZ20-ND*	9.58	7.19	4.31	—	—	—
Magnetic Field Sensor with Internal Magnet 4 Pin	E-Line 4	ZMZ20M-ND*	10.66	8.00	4.80	—	—	—
Dual Magnetic Field Sensor, Magneto-Resistive	SM-8	ZMX40MT8TACT-ND	10.24	8.78	8.05	ZMX40MT8TATR-ND	1,000	4974.20

* Bulk Pricing

Dim. in mm

Fig. 1

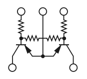

Fig. 2

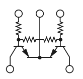

Fig. 3

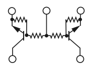

Fig. 4

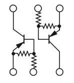

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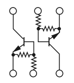

Fig. 6

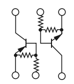

Fig . 7

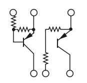

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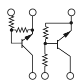

Fig. 9

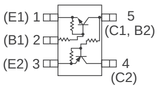

Fig. 10

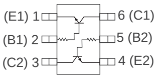

Fig. 11

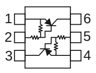

Fig. 12

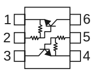

Fig. 13

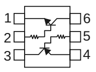

Fig. 14

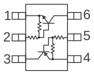

Fig. 15

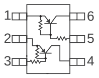

Fig. 16

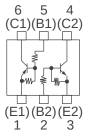

Fig. 17

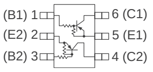

Fig. 18

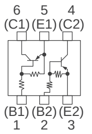

Fig. 19

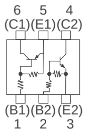

Fig. 20

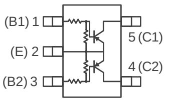

Fig. 21

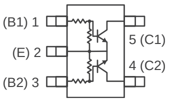

Fig. 22

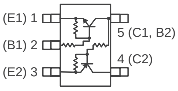

Mini Type (5-pin) / EIAJ: SC-74A

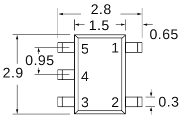

Mini Type (6-pin) / EIAJ: SC-74

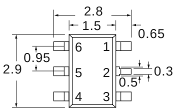

S-Mini Type (5-pin)/ EIAJ: SC-88A

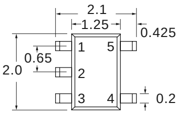

S-Mini Type (6-pin)/ EIAJ: SC-88

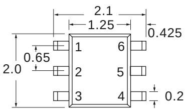

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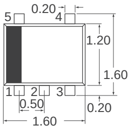

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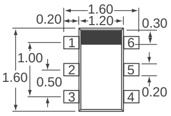

SSS-Mini Type (6-pin)

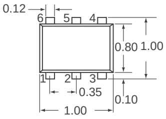

Fig.	Package	Basic Type		Resistor Value		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No	Tape & Reel	
		PNP	NPN	RB (K ohm)	RBE (K ohm)		1	10	100		Size	Pricing
1	Mini 5Pin	UN211F x2	—	4.7	10	XN0111F00LCT-ND	.42	.35	.28	XN0111F00LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN211H x2	—	2	10	XN0111H00LCT-ND	.42	.35	.28	XN0111H00LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN1110 x2	—	47	open	XN0111000LCT-ND	.42	.35	.28	XN0111000LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2111 x2	—	10	10	XN0111100LCT-ND	.42	.35	.28	XN0111100LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2112 x2	—	22	22	XN0111200LCT-ND	.42	.35	.28	XN0111200LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2113 x2	—	47	47	XN0111300LCT-ND	.42	.35	.28	XN0111300LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2114 x2	—	10	47	XN0111400LCT-ND	.42	.35	.28	XN0111400LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2115 x2	—	10	open	XN0111500LCT-ND	.42	.35	.28	XN0111500LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2116 x2	—	4.7	open	XN0111600LCT-ND	.42	.35	.28	XN0111600LTR-ND	3,000	111.00/M
1	Mini 5Pin	UN2119 x2	—	1	10	XN0111900LCT-ND	.42	.35	.28	XN0111900LTR-ND	3,000	111.00/M
2	Mini 5Pin	—	UN2210 x2	47	open	XN0121000LCT-ND	.42	.35	.28	XN0121000LTR-ND	3,000	111.00/M
2	Mini 5Pin	—	UN2211 x2	10	10	XN0121100LCT-ND	.42	.35	.28	XN0121100LTR-ND	3,000	111.00/M
2	Mini 5Pin	—	UN2212 x2	22	22	XN0121200LCT-ND	.42	.35	.28	XN0121200LTR-ND	3,000	111.00/M
2	Mini 5Pin	—	UN2213 x2	47	47	XN0121300LCT-ND	.42	.35	.28	XN0121300LTR-ND	3,000	111.00/M
2	Mini 5Pin	—	UN2214 x2	10	47	XN0121400LCT-ND	.42	.35	.28	XN0121400LTR-ND	3,000	111.00/M
2	Mini 5Pin	—	UN2215 x2	10	open	XN0121500LCT-ND	.42	.35	.28	XN0121500LTR-ND	3,000	111.00/M
2	Mini 5Pin	—	UN2216 x2	4.7	open	XN0121600LCT-ND	.42	.35	.28	XN0121600LTR-ND	3,000	111.00/M
3	Mini 5Pin	—	UN2211 x2	10	10	XN0221100LCT-ND	.41	.35	.28	XN0221100LTR-ND	3,000	109.00/M
4	Mini 6Pin	UN2111 x2	—	10	10	XN0411100LCT-ND	.42	.35	.28	XN0411100LTR-ND	3,000	111.00/M
4	Mini 6Pin	UN2112 x2	—	22	22	XN0411200LCT-ND	.42	.35	.28	XN0411200LTR-ND	3,000	111.00/M
4	Mini 6Pin	UN2113 x2	—	47	47	XN0411300LCT-ND	.42	.35	.28	XN0411300LTR-ND	3,000	111.00/M
4	Mini 6Pin	UN2114 x2	—	10	47	XN0411400LCT-ND	.42	.35	.28	XN0411400LTR-ND	3,000	111.00/M
4	Mini 6Pin	UN2115 x2	—	10	open	XN0411500LCT-ND	.42	.35	.28	XN0411500LTR-ND	3,000	111.00/M
4	Mini 6Pin	UN2116 x2	—	4.7	open	XN0411600LCT-ND	.42	.35	.28	XN0411600LTR-ND	3,000	111.00/M
5	Mini 6Pin	—	UN1210 x2	47	open	XN0421000LCT-ND	.42	.35	.28	XN0421000LTR-ND	3,000	111.00/M
5	Mini 6Pin	—	UN2211 x2	10	10	XN0421100LCT-ND	.42	.35	.28	XN0421100LTR-ND	3,000	111.00/M
5	Mini 6Pin	—	UN2212 x2	22	22	XN0421200LCT-ND	.42	.35	.28	XN0421200LTR-ND	3,000	111.00/M
5	Mini 6Pin	—	UN2213 x2	47	47	XN0421300LCT-ND	.42	.35	.28	XN0421300LTR-ND	3,000	111.00/M
5	Mini 6Pin	—	UN2214 x2	10	47	XN0421400LCT-ND	.42	.35	.28	XN0421400LTR-ND	3,000	111.00/M
5	Mini 6Pin	—	UN2215 x2	10	open	XN0421500LCT-ND	.42	.35	.28	XN0421500LTR-ND	3,000	111.00/M
5	Mini 6Pin	—	UN2216 x2	4.7	open	XN0421600LCT-ND	.42	.35	.28	XN0421600LTR-ND	3,000	111.00/M
6	Mini 6Pin	UN2111 x1	UN2211 x1	10/10	10/10	XN0431100LCT-ND	.42	.35	.28	XN0431100LTR-ND	3,000	111.00/M
6	Mini 6Pin	UN2112 x1	UN2212 x1	22/22	22/22	XN0431200LCT-ND	.42	.35	.28	XN0431200LTR-ND	3,000	111.00/M
6	Mini 6Pin	UN2114 x1	UN2114 x1	10/10	47/47	XN0431400LCT-ND	.42	.35	.28	XN0431400LTR-ND	3,000	111.00/M
6	Mini 6Pin	UN2115 x1	UN2115 x1	10/10	open/open	XN0431500LCT-ND	.42	.35	.28	XN0431500LTR-ND	3,000	111.00/M
6	Mini 6Pin	UN2116 x1	UN2116 x1	4.7/4.7	open/open	XN0431600LCT-ND	.42	.35	.28	XN0431600LTR-ND	3,000	111.00/M
6	Mini 6Pin	UN2122 x1	UN2213 x1	4.7/4.7	4.7/4.7	XN0438100LCT-ND	.42	.35	.28	XN0438100LTR-ND	3,000	111.00/M
7	Mini 6Pin	—	UN1213 x2	47	47	XN0621300LCT-ND	.42	.35	.28	XN0621300LTR-ND	3,000	111.00/M
7	Mini 6Pin	—	UN1215 x2	10	open	XN0621500LCT-ND	.42	.35	.28	XN0621500LTR-ND	3,000	111.00/M
7	Mini 6Pin	—	UN1216 x2	4.7	open	XN0621600LCT-ND	.42	.35	.28	XN0621600LTR-ND	3,000	111.00/M
1	S Mini 5Pin	UN111F x2	—	4.7	10	XP0111F00LCT-ND	.48	.40	.32	XP0111F00LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN111H x2	—	2.2	10	XP0111H00LCT-ND	.48	.40	.32	XP0111H00LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1111 x2	—	10	10	XP0111100LCT-ND	.48	.40	.32	XP0111100LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1112 x2	—	22	22	XP0111200LCT-ND	.48	.40	.32	XP0111200LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1113 x2	—	47	47	XP0111300LCT-ND	.48	.40	.32	XP0111300LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1114 x2	—	10	47	XP0111400LCT-ND	.48	.40	.32	XP0111400LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1115 x2	—	10	open	XP0111500LCT-ND	.48	.40	.32	XP0111500LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1116 x2	—	4.7	open	XP0111600LCT-ND	.48	.40	.32	XP0111600LTR-ND	3,000	127.00/M
1	S Mini 5Pin	UN1119 x2	—	1	10	XP0111900LCT-ND	.48	.40	.32	XP0111900LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1210 x2	47	open	XP0121000LCT-ND	.48	.40	.32	XP0121000LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1211 x2	10	10	XP0121100LCT-ND	.48	.40	.32	XP0121100LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1212 x2	22	22	XP0121200LCT-ND	.48	.40	.32	XP0121200LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1213 x2	47	47	XP0121300LCT-ND	.48	.40	.32	XP0121300LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1214 x2	10	47	XP0121400LCT-ND	.48	.40	.32	XP0121400LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1215 x2	10	open	XP0121500LCT-ND	.48	.40	.32	XP0121500LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1216 x2	4.7	open	XP0121600LCT-ND	.48	.40	.32	XP0121600LTR-ND	3,000	127.00/M
2	S Mini 5Pin	—	UN1217 x2	22	open	XP0121700LCT-ND	.48	.40	.32	XP0121700LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1111 x2	—	10	10	XP0411100LCT-ND	.48	.40	.32	XP0411100LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1112 x2	—	22	22	XP0411200LCT-ND	.48	.40	.32	XP0411200LTR-ND	3,000	127.00/M

(Continued)

Panasonic Transistor Arrays Composite Transistors (Built-in Resistor) *(Cont.)*

Fig.	Package	Basic Type		Resistor Value		Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel	
		PNP	NPN	RB (K ohm)	RBE (K ohm)	Part No.	1	10	100	Part No	Size	Pricing
3	S Mini 6Pin	UN1113 x2	—	47	47	XP0411300LCT-ND	.48	.40	.32	XP0411300LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1114 x2	—	10	47	XP0411400LCT-ND	.48	.40	.32	XP0411400LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1115 x2	—	10	open	XP0411500LCT-ND	.48	.40	.32	XP0411500LTR-ND	3,000	127.00/M
3	S Mini 6Pin	UN1116 x2	—	4.7	open	XP0411600LCT-ND	.48	.40	.32	XP0411600LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1210 x2	—	47	open	XP0421000LCT-ND	.48	.40	.32	XP0421000LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1211 x2	—	10	10	XP0421100LCT-ND	.48	.40	.32	XP0421100LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1212 x2	—	22	22	XP0421200LCT-ND	.48	.40	.32	XP0421200LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1213 x2	—	47	47	XP0421300LCT-ND	.48	.40	.32	XP0421300LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1214 x2	—	10	47	XP0421400LCT-ND	.48	.40	.32	XP0421400LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1215 x2	—	10	open	XP0421500LCT-ND	.48	.40	.32	XP0421500LTR-ND	3,000	127.00/M
5	S Mini 6Pin	UN1216 x2	—	4.7	open	XP0421600LCT-ND	.48	.40	.32	XP0421600LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN1211 x1	UN1111 x1	10	10	XP0431100LCT-ND	.48	.40	.32	XP0431100LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN1212 x1	UN1112 x1	22	22	XP0431200LCT-ND	.48	.40	.32	XP0431200LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN2214 x1	UN2114 x1	10	47	XP0431400LCT-ND	.48	.40	.32	XP0431400LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN1215 x1	UN1115 x1	10	open	XP0431500LCT-ND	.48	.40	.32	XP0431500LTR-ND	3,000	127.00/M
6	S Mini 6Pin	UN1216 x1	UN1116 x1	4.7	open	XP0431600LCT-ND	.48	.40	.32	XP0431600LTR-ND	3,000	127.00/M
7	S Mini 6Pin	UN1115 x2	—	10	open	XP0611500LCT-ND	.48	.40	.32	XP0611500LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1211 x2	10	10	XP0621100LCT-ND	.48	.40	.32	XP0621100LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1212 x2	22	22	XP0621200LCT-ND	.48	.40	.32	XP0621200LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1213 x2	47	47	XP0621300LCT-ND	.48	.40	.32	XP0621300LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1214 x2	10	47	XP0621400LCT-ND	.48	.40	.32	XP0621400LTR-ND	3,000	127.00/M
8	S Mini 6Pin	—	UN1215 x2	10	open	XP0621500LCT-ND	.48	.40	.32	XP0621500LTR-ND	3,000	127.00/M
20	SS Mini 5Pin	UNR2113 x2	—	47	47	UP0111300LCT-ND	.55	.41	.31	UP0111300LTR-ND	8,000	174.00/M
21	SS Mini 5Pin	—	UNR2113 x2	47	47	UP0121300LCT-ND	.55	.41	.31	UP0121300LTR-ND	8,000	174.00/M
9	SS Mini 5Pin	UNR211F	UNR2213	47/4.7	47/10	UP0338300LCT-ND	.59	.45	.34	UP0338300LTR-ND	8,000	188.00/M
9	SS Mini 5Pin	UNR2112	UNR2212	22/22	22/22	UP0331200LCT-ND	.59	.45	.34	UP0331200LTR-ND	8,000	188.00/M
22	SS Mini 5Pin	UNR2114	UNR2213	10/47	47/47	UP0339000LCT-ND	.55	.41	.31	UP0339000LTR-ND	8,000	174.00/M
22	SS Mini 5Pin	UNR2118	UNR2213	47/.51	47/5.1	UP0339400LCT-ND	.55	.41	.31	UP0339400LTR-ND	8,000	174.00/M
22	SS Mini 5Pin	UNR211T	UNR2211	10/22	10/47	UP0339600LCT-ND	.55	.41	.31	UP0339600LTR-ND	8,000	174.00/M
22	SS Mini 5Pin	UNR2154	UNR2211	10/10	10/47	UP0339700LCT-ND	.55	.41	.31	UP0339700LTR-ND	8,000	174.00/M
10	SS Mini 6Pin	UNR2115	UNR2215	10/10	open	UP0421500LCT-ND	.59	.45	.34	UP0421500LTR-ND	8,000	188.00/M
11	SS Mini 6Pin	UN2111 x2	—	10	10	UP0411100LCT-ND	.61	.46	.35	UP0411100LTR-ND	8,000	195.00/M
11	SS Mini 6Pin	UNR111M	—	2.2/2.2	47/47	UP0411M00LCT-ND	.59	.45	.34	UP0411M00LTR-ND	8,000	188.00/M
11	SS Mini 6Pin	—	UNR2113	47	47	UP0411300LCT-ND	.55	.41	.31	UP0411300LTR-ND	8,000	174.00/M
12	SS Mini 6Pin	—	UN2213 x2	47	47	UP0421300LCT-ND	.61	.46	.35	UP0421300LTR-ND	8,000	195.00/M
12	SS Mini 6Pin	—	NPNX2	47	open	UP0421000LCT-ND	.59	.45	.34	UP0421000LTR-ND	8,000	188.00/M
12	SS Mini 6Pin	UNR2114	UNR2214	10/10	47/47	UP0421400LCT-ND	.59	.45	.34	UP0421400LTR-ND	8,000	188.00/M
12	SS Mini 6Pin	—	NPNX2	4.7	open	UP0421600LCT-ND	.59	.45	.34	UP0421600LTR-ND	8,000	188.00/M
12	SS Mini 6Pin	—	UNR2111	10	10	UP0421100LCT-ND	.55	.41	.31	UP0421100LTR-ND	8,000	174.00/M
13	SS Mini 6Pin	UNR2115	UNR2215	10	open	UP0431500LCT-ND	.55	.41	.31	UP0431500LTR-ND	8,000	174.00/M
13	SS Mini 6Pin	UN2116 x1	UN2216 x1	4.7	open	UP0431600LCT-ND	.61	.46	.35	UP0431600LTR-ND	8,000	195.00/M
14	SS Mini 6Pin	UNR2111	UNR2211	10	10	UP0431100LCT-ND	.55	.41	.31	UP0431100LTR-ND	8,000	174.00/M
14	SS Mini 6Pin	UNR2112	UNR2212	22	22	UP0431200LCT-ND	.55	.41	.31	UP0431200LTR-ND	8,000	174.00/M
14	SS Mini 6Pin	UNR2113	UNR2213	47	47	UP0431300LCT-ND	.59	.45	.34	UP0431300LTR-ND	8,000	188.00/M
14	SS Mini 6Pin	UNR2114	UNR2214	10/10	47/47	UP0431400LCT-ND	.59	.45	.34	UP0431400LTR-ND	8,000	188.00/M
14	SS Mini 6Pin	UNR2114	UNR2213	10/47	47/47	UP0439000LCT-ND	.55	.41	.31	UP0439000LTR-ND	8,000	174.00/M
14	SSS Mini 6Pin	UNR31A2	UNR32A2	22	22	NP043A200ACT-ND	.93	.70	.53	NP043A200ATR-ND	10,000	290.00/M
15	SSS Mini 6Pin	UNR31A3	—	47	47	NP061A300ACT-ND	.75	.63	.51	NP061A300ATR-ND	10,000	314.00/M
15	SSS Mini 6Pin	UNR31A5	—	10	10	NP061A500ACT-ND	.75	.63	.51	NP061A500ATR-ND	10,000	314.00/M
16	SSS Mini 6Pin	UNR31A3	UNR32A3	47/47	47/47	NP0H3A300ACT-ND	.93	.70	.53	NP0H3A300ATR-ND	10,000	290.00/M
17	SSS Mini 6Pin	UNR31A3 x2	—	47/47	47/47	NP0J1A300ACT-ND	.93	.70	.53	NP0J1A300ATR-ND	10,000	290.00/M
18	SSS Mini 6Pin	UNR31AE x2	—	47/22	47/22	NP0G1AE00ACT-ND	.93	.70	.53	NP0G1AE00ATR-ND	10,000	290.00/M
19	SSS Mini 6Pin	UNR31A3	UNR32A3	47/47	47/47	NP0G3A300ACT-ND	.93	.70	.53	NP0G3A300ATR-ND	10,000	290.00/M
19	SSS Mini 6Pin	UNR31A3	UNR32AL	47/4.7	47/4.7	NP0G3D100ACT-ND	.93	.70	.53	NP0G3D100ATR-ND	10,000	290.00/M
19	SSS Mini 6Pin	UNR31AT	UNR32AL	22/4.7	47/4.7	NP0G3D200ACT-ND	.93	.70	.53	NP0G3D200ATR-ND	10,000	290.00/M

Transistor Arrays Composite Transistors

Dim. in mm

Fig. 1

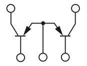

Fig. 2

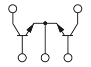

Fig. 3

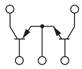

Fig. 4

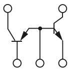

Fig. 5

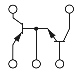

Fig. 6

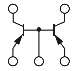

Fig. 7

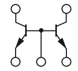

Fig. 8

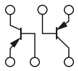

Fig. 9

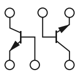

Fig. 10

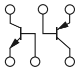

Fig. 11

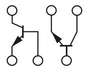

Fig. 12

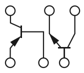

Fig. 13

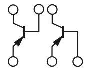

Fig. 14

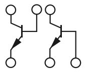

Fig. 15

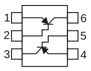

Fig. 16

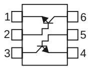

Fig. 17

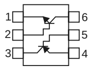

Fig. 18

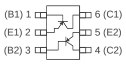

Mini Type (5-pin)
EIAJ: SC-74A

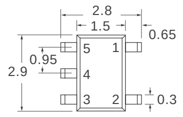

Mini Type (6-pin)
EIAJ: SC-74

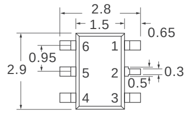

S-Mini Type (5-pin)
EIAJ: SC-88A

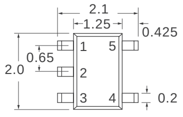

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EIAJ: SC-88

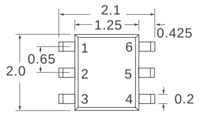

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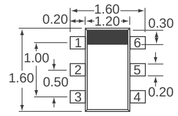

SSS-Mini Type (6-pin)

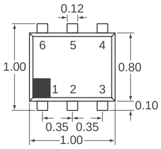

Fig.	Basic Type		Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel	
	PNP	NPN	Part No.	1	10	100	Part No.	Size	Pricing
			Mini Type 5-Pin						
1	2SB709A x2	—	XN0140100LCT-ND	.42	.34	.24	XN0140100LTR-ND	3,000	109.00/M
1	2SB1693 x2	—	XN0145700LCT-ND	.60	.45	.34	XN0145700LTR-ND	3,000	195.00/M
2	—	2SD601A x2	XN0150100LCT-ND	.42	.34	.24	XN0150100LTR-ND	3,000	109.00/M
2	—	2SD1938 x2	XN0150400LCT-ND	.60	.45	.34	XN0150400LTR-ND	3,000	195.00/M
2	—	2SC4561 x2	XN0150900LCT-ND	.55	.42	.31	XN0150900LTR-ND	3,000	178.00/M
2	—	2SC3130 x2	XN0153100LCT-ND	.91	.68	.51	XN0153100LTR-ND	3,000	294.00/M
2	—	2SD2623 x2	XN0155800LCT-ND	.60	.45	.34	—	—	—
3	2SB709A x1	2SD601A x1	XN0160100LCT-ND	.42	.34	.24	XN0160100LTR-ND	3,000	109.00/M
6	2SB709A x2	—	XN0240100LCT-ND	.42	.34	.24	XN0240100LTR-ND	3,000	109.00/M
7	—	2SD601A x2	XN0250100LCT-ND	.42	.34	.24	XN0250100LTR-ND	3,000	109.00/M

(Continued)

Panasonic® Transistor Arrays Composite Transistors *(Cont.)*

Fig.	Basic Type PNP	Basic Type NPN	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
4	2SB709A x1	2SD601A x1	XN0B30100LCT-ND	.42	.35	.28	XN0B30100LTR-ND	3,000	111.00/M
5	2SB709A x1	2SD601A x1	XN0C30100LCT-ND	.42	.35	.28	XN0C30100LTR-ND	3,000	111.00/M
Mini Type 6-Pin									
8	2SB709A x2	—	XN0440100LCT-ND	.42	.34	.24	XN0440100LTR-ND	3,000	109.00/M
8	2SB710A x2	—	XN0440200LCT-ND	.56	.43	.32	XN0440200LTR-ND	3,000	184.00/M
8	2SB970 x2	—	XN0440400LCT-ND	.65	.49	.37	XN0440400LTR-ND	3,000	212.00/M
9	—	2SD601A x2	XN0450100LCT-ND	.42	.34	.24	XN0450100LTR-ND	3,000	109.00/M
9	—	2SD602A x2	XN0450200LCT-ND	.58	.47	.35	XN0450200LTR-ND	3,000	154.00/M
9	—	2SD1328 x2	XN0450400LCT-ND	.61	.46	.35	XN0450400LTR-ND	3,000	197.00/M
9	—	2SD0601/2SD1328	XN0450500LCT-ND	.48	.37	.28	XN0450500LTR-ND	3,000	156.00/M
10	2SB709A x1	2SD601A x1	XN0460100LCT-ND	.42	.34	.24	XN0460100LTR-ND	3,000	109.00/M
10	2SB970 x1	2SD1328 x1	XN0460400LCT-ND	.82	.62	.47	XN0460400LTR-ND	3,000	267.00/M
10	2SB970 x1	2SD601A x1	XN0460800LCT-ND	.50	.38	.28	XN0460800LTR-ND	3,000	161.00/M
10	2SB709A x1	2SD1328 x1	XN0460900LCT-ND	.59	.45	.34	XN0460900LTR-ND	3,000	192.00/M
11	—	2SD601A x2	XN0550100LCT-ND	.42	.34	.24	XN0550100LTR-ND	3,000	109.00/M
11	—	2SC3130 x2	XN0553100LCT-ND	.67	.50	.38	XN0553100LTR-ND	3,000	217.00/M
11	—	2SD1149 x2	XN0555300LCT-ND	.81	.61	.46	XN0555300LTR-ND	3,000	262.00/M
Mini Type 6-Pin									
12	2SB709A x1	2SD601A x1	XN0560100LCT-ND	.42	.34	.24	XN0560100LTR-ND	3,000	109.00/M
13	2SB709A x2	—	XN0640100LCT-ND	.42	.34	.24	XN0640100LTR-ND	3,000	109.00/M
14	—	2SD601A x2	XN0650100LCT-ND	.42	.34	.24	XN0650100LTR-ND	3,000	109.00/M
14	—	2SC2404 x2	XN0653400LCT-ND	.82	.62	.47	XN0653400LTR-ND	3,000	267.00/M
14	—	2SC3110 x2	XN0653700LCT-ND	.67	.50	.38	XN0653700LTR-ND	3,000	217.00/M
14	—	2SC3904 x2	XN0654300LCT-ND	.96	.81	.65	XN0654300LTR-ND	3,000	417.00/M
S-Mini Type 5-Pin									
1	2SB709A x2	—	XP0140100LCT-ND	.42	.35	.24	XP0140100LTR-ND	3,000	111.00/M
2	—	2SD601A x2	XP0150100LCT-ND	.42	.35	.24	XP0150100LTR-ND	3,000	111.00/M
6	2SB709A x2	—	XP0240100LCT-ND	.42	.35	.24	XP0240100LTR-ND	3,000	111.00/M
7	—	2SD601A x2	XP0250100LCT-ND	.42	.35	.24	XP0250100LTR-ND	3,000	111.00/M
4	2SB709A x1	2SD601A x1	XP0B30100LCT-ND	.42	.36	.29	XP0B30100LTR-ND	3,000	113.00/M
5	2SB709A x1	2SD601A x1	XP0C30100LCT-ND	.42	.36	.29	XP0C30100LTR-ND	3,000	113.00/M
S-Mini Type 6-Pin									
8	2SB709A x2	—	XP0440100LCT-ND	.42	.35	.24	XP0440100LTR-ND	3,000	111.00/M
10	2SB709A x1	2SD601A x1	XP0460100LCT-ND	.42	.35	.24	XP0460100LTR-ND	3,000	111.00/M
10	2SA1738 x1	2SC3757 x1	XP0465400LCT-ND	.72	.54	.41	XP0465400LTR-ND	3,000	233.00/M
12	2SB709A x1	2SD601A x1	XP0560100LCT-ND	.42	.35	.24	XP0560100LTR-ND	3,000	111.00/M
13	2SB709A x2	—	XP0640100LCT-ND	.42	.35	.24	XP0640100LTR-ND	3,000	111.00/M
14	—	2SD601A x2	XP0650100LCT-ND	.42	.35	.24	XP0650100LTR-ND	3,000	111.00/M
SS-Mini Type 6-Pin									
15	2SB709A x2	—	UP0440100LCT-ND	.61	.46	.35	UP0440100LTR-ND	8,000	195.00/M
16	—	2SD601A x2	UP0450100LCT-ND	.61	.46	.35	UP0450100LTR-ND	8,000	195.00/M
17	2SB709A x1	2SD601A x1	UP0460100LCT-ND	.61	.46	.35	UP0460100LTR-ND	8,000	195.00/M
SSS-Mini Type 6-Pin									
18	2SA2082 x2	—	NP0A45600ACT-ND	.93	.70	.53	NP0A45600ATR-ND	10,000	290.00/M

Variable Capacitance Diodes - Silicon Epitaxial Planar Type

SS-Mini (2-pin)

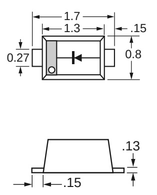

SSS-Mini (2-pin)

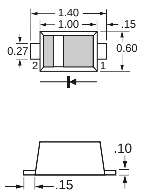

Package	Application	VR (V)	IR (nA)	CD @ 1Mhz @VR	CD @ 1Mhz pF(max.)	CD @ 1Mhz @VR	CD @ 1Mhz pF(max.)	RD @ 470Mhz Ω (max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
SS-Mini 2P	Band Switching	35	33*	6	1.2	—	—	.85*	MA2S07700LCT-ND	.40	.34	.27	MA2S07700LTR-ND	3,000	106.00/M
	VCO	30	28	1	29.8	4	8.3	1.0*	MA2S30400LCT-ND	.46	.37	.28	MA2S30400LTR-ND	3,000	122.00/M
	VCO/UHF	12	12	1	20	4	12.4	.22	MA2S33100LCT-ND	.43	.35	.26	MA2S33100LTR-ND	3,000	114.00/M
	CATV Tuner	34	30	2	34.3	10	8.32	.54	MA2S35700LCT-ND	.43	.35	.26	MA2S35700LTR-ND	3,000	114.00/M
	UHF/VHF Tuner	32	30	2	15.47	10	6.13	.45	MA2S37200LCT-ND	.46	.39	.31	MA2S37200LTR-ND	3,000	123.00/M
	CATV Tuner	34	30	2	50.79	10	13.08	.90	MA2S37400LCT-ND	.48	.39	.29	MA2S37400LTR-ND	3,000	128.00/M
	VCO/TCXO	12	12	2	3.4	10	1.5	.60	MA2S37700LCT-ND	.44	.36	.27	MA2S37700LTR-ND	3,000	118.00/M
	VCO	6	10	1	20.0	4	9.0	0.3	MA2SV0200LCT-ND	.43	.34	.24	MA2SV0200LTR-ND	3,000	98.00/M
	VCO	6	10	1	11.1	3	6.4	0.35	MA2SV0400LCT-ND	.41	.33	.23	MA2SV0400LTR-ND	3,000	92.00/M
	VCO	6	10	1	16.4	3	9.2	0.35	MA2SV0900LCT-ND	.44	.34	.24	MA2SV0900LTR-ND	3,000	98.00/M
	VCO	6	10	1	17.0	3	7.0	1.0	MA2SV0100LCT-ND	.40	.32	.23	MA2SV0100LTR-ND	3,000	91.00/M
	VCO	6	10	1	5.80	4	2.58	0.3	MA2SV0300LCT-ND	.40	.32	.23	MA2SV0300LTR-ND	3,000	91.00/M
	VCO	6	10	1	20.5	4	4.1	0.65	MA2SV0500LCT-ND	.40	.32	.23	MA2SV0500LTR-ND	3,000	91.00/M
	VCO	6	10	1	3.12	3	1.62	0.35	MA2SV0700LCT-ND	.40	.32	.23	MA2SV0700LTR-ND	3,000	91.00/M
	VCO	6	10	0.5	7.91	2.5	3.23	0.45	MA2SV1500LCT-ND	.40	.32	.23	MA2SV1500LTR-ND	3,000	91.00/M
SSS-Mini 2P	VCO	6	6	1	17	3	7	1.0	MA27V0100LCT-ND	.50	.41	.31	MA27V0100LTR-ND	10,000	125.00/M
	VCO	6	5	1	20	4	9	.30	MA27V0200LCT-ND	.53	.43	.32	MA27V0200LTR-ND	10,000	133.00/M
	VCO	6	5	1	5.8	4	2.58	.30	MA27V0300LCT-ND	.46	.37	.28	MA27V0300LTR-ND	10,000	114.00/M
	VCO	6	5	1	11.1	3	6.4	.35	MA27V0400LCT-ND	.46	.37	.28	MA27V0400LTR-ND	10,000	114.00/M
	VCO	10	10	1	20.5	4	4.1	.65	MA27V0500LCT-ND	.51	.41	.31	MA27V0500LTR-ND	10,000	127.00/M
	VCO	6	5	1	3.12	3	1.62	.35	MA27V0700LCT-ND	.47	.38	.29	MA27V0700LTR-ND	10,000	118.00/M
	VCO	6	5	1	16.4	3	9.2	.35	MA27V0900LCT-ND	.54	.44	.33	MA27V0900LTR-ND	10,000	135.00/M
	VCO	8	5	1	3.01	4	1.34	.35	MA27V1100LCT-ND	.54	.44	.33	MA27V1100LTR-ND	10,000	135.00/M
	VCO	8	5	1	3.9	4	2.14	.35	MA27V1200LCT-ND	.55	.45	.34	MA27V1200LTR-ND	10,000	138.00/M
	VCO	12	10	1	12.29	3	5.81	.40	MA27V1300LCT-ND	.55	.45	.34	MA27V1300LTR-ND	10,000	138.00/M
	VCO	60	5	0.5	7.91	2.5	3.23	.45	MA27V1500LCT-ND	.58	.46	.35	MA27V1500LTR-ND	10,000	144.00/M
	VCO/UHF	6	6	1	16	3	8.9	.30	MA2737600LCT-ND	.46	.37	.28	MA2737600LTR-ND	10,000	114.00/M
	VCO	6	10	1	2.50	3	1.28	0.35	MA27V1900LCT-ND	.53	.43	.32	MA27V1900LTR-ND	10,000	133.00/M

*100Mhz

PNP Transistors with Diode Protection

Application	Package	V_{CEO} (V)	IC	Diode V_F	Diode I_F	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
PNP Type											
DC-DC Converter	Mini 6P	15	2.5A	.45V	1.0A	XN09D5700LCT-ND	.94	.71	.54	XN09D5700LTR-ND	307.00/M
			2.5A	.45V	700mA	XN09D5800LCT-ND	.93	.70	.53	XN09D5800LTR-ND	301.00/M
			1.5A	.45V	700mA	XN09D6100LCT-ND	.90	.68	.51	XN09D6100LTR-ND	292.00/M

Mini Type (6-pin)

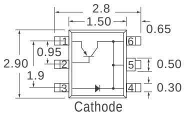

1. Emitter
2. Base
3. Anode
4. Collector
5. Collector
6. Collector

Transistors and MOSFETs

Dim. in mm

TO-126

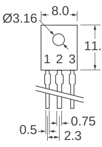

1. Emitter
2. Collector
3. Base

TO-220F
EIAJ:SC-67

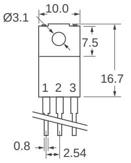

1. Base
2. Collector
3. Emitter

TO-220D

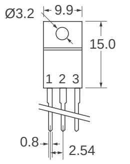

Transistors
1. Base
2. Collector
3. Emitter

Mosfets
1. Gate
2. Drain
3. Source

MT-4

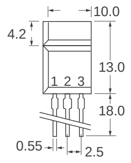

1. Base
2. Collector
3. Emitter

TO-92L

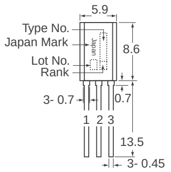

1. Emitter
2. Collector
3. Base

TO-92NL

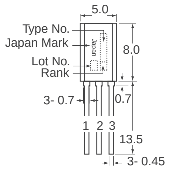

1. Emitter
2. Collector
3. Base

MT1-Type

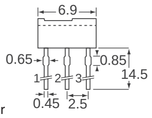

1. Emitter
2. Collector
3. Base

MT2-Type

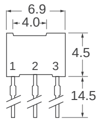

1. Emitter
2. Collector
3. Base

MT3-Type

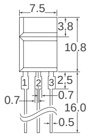

1. Emitter
2. Collector
3. Base

NEW S Type

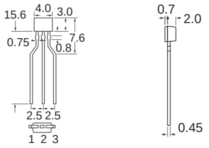

1. Emitter
2. Collector
3. Base

Transistors

Application	Package	VCEO (V)	IC	hFE Minimum	hFE Maximum	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Digi-Key Part No.	Tape & Box Size	Tape & Box Pricing
						PNP Type						
AF Output Driver	TO-126	35	1A	85	340	2SA08850R-ND	.63	.53	.43	—	—	—
AF Power Amp	TO-126	40	1.5A	80	220	2SA08860Q-ND	.91	.69	.52	—	—	—
AF Power Amp	TO-126	18	1A	130	280	2SA09000R-ND	1.13	.94	.76	—	—	—
AF Power Pre-Amp	TO-126	150	50mA	130	330	2SA09140R-ND	1.35	1.13	.91	—	—	—
AF Power Amp	TO-126	60	2A	80	220	2SA1096AQ-ND	1.10	.92	.74	—	—	—
AF Power Amp	TO-126	120	0.5A	—	—	2SA11100Q-ND	.89	.75	.60	—	—	—
AF Output Driver	TO-126	100	.5A	130	220	2SA07940R-ND	.95	.71	.54	—	—	—
AF Output Driver	TO-126	50	2A	80	160	2SA10960Q-ND	1.10	.92	.74	—	—	—
AF Output Driver	TO-126	50	2A	120	220	2SA10960R-ND	1.10	.92	.74	—	—	—
AF Amp	TO-126	400	0.1A	30	—	2SB1011-ND	.95	.72	.54	—	—	—
AF Driver	TO-220F	180	1A	90	330	2SA1535AR-ND	1.16	.97	.78	—	—	—
Power Switching	TO-220F	80	3A	—	—	2SB09430P-ND	1.45	1.17	.88	—	—	—
Power Amp/Switching	TO-220F	80	2A	1,000	10,000	2SB0949AQ-ND	1.16	.97	.77	—	—	—
Power Amp/Switching	TO-220F	80	4A	1,000	10,000	2SB0950AP-ND	1.35	1.13	.91	—	—	—
Med. Speed Switch	TO-220F	80	8A	2,000	10,000	2SB0951AQ-ND	1.60	1.29	.97	—	—	—
Power Amp	TO-220D	60	3A	120	320	2SA20570P-ND	1.01	.85	.68	—	—	—
General Amp	TO-220D	80	3A	70	250	2SB1548AP-ND	.85	.71	.57	—	—	—
Power Amp	TO-220D	180	1.5A	60	240	2SA21400P-ND	.83	.70	.56	—	—	—
Power Amp	TO-220D	180	1.5A	60	240	2SA21400Q-ND	.83	.70	.56	—	—	—
Power Amp	MT-4	60	3A	160	320	2SA20670PACT-ND†	1.06	.89	.71	2SA20670PATB-ND	1,000	471.00
Power Amp	MT-4	60	3A	120	250	2SA20670QACT-ND†	1.06	.89	.71	2SA20670QATB-ND	1,000	471.00
Power Amp	MT-4	80	3A	70	250	2SB1417APACT-ND†	1.15	.97	.77	2SB1417APATB-ND	1,000	512.00
Power Amp	MT-4	80	2A	1,000	10,000	2SB1418AQACT-ND†	1.35	1.13	.90	2SB1418AQATB-ND	1,000	597.00
AF Output Amp	TO-92L	25	1A	120	240	2SA06830R-ND	.53	.43	.33	—	—	—
AF Output Amp	TO-92L	50	1A	120	240	2SA06840R-ND	.58	.47	.35	—	—	—
AF Output Amp	TO-92L	50	1A	170	340	2SA06840S-ND	.58	.47	.35	—	—	—
AF Output Amp	TO-92L	80	.5A	90	155	2SA07770Q-ND	.93	.70	.53	—	—	—
AF Output Amp	TO-92L	80	.5A	130	220	2SA07770R-ND	.88	.66	.50	—	—	—
General Amp	TO-92L	200	70mA	60	150	2SA08790Q-ND	.93	.78	.62	—	—	—
AF Amp	TO-92L	20	5A	120	205	2SB08730Q-ND	.98	.74	.56	—	—	—
AF Amp	TO-92L	20	5A	180	625	2SB08730R-ND	.98	.74	.56	—	—	—
AF Output Amp	TO-92NL	50	1A	120	240	2SA1534ARACT-ND†	.59	.48	.36	2SA1534ARATB-ND	3,000	158.00/M
AF Output Amp	TO-92NL	50	1A	170	340	2SA1534ASACT-ND†	.59	.48	.36	2SA1534ASATB-ND	3,000	158.00/M
AF Output Amp	TO-92NL	50	.5A	120	240	2SA1619ARACT-ND†	.54	.44	.33	2SA1619ARATB-ND	3,000	143.00/M
AF Output Amp	TO-92NL	50	.5A	170	340	2SA1619ASACT-ND†	.54	.44	.33	2SA1619ASATB-ND	3,000	143.00/M
General Amp	TO-92NL	200	70mA	60	150	2SB12210QACT-ND†	.93	.78	.62	—	—	—
AF Amp	TO-92NL	25	3A	130	450	2SB15920RACT-ND†	.80	.60	.45	2SB15920RATB-ND	3,000	259.00/M
General Amp	MT-1	50	100mA	160	460	2SB1320A0ACT-ND†	.41	.32	.23	2SB1320A0ATB-ND	2,000	97.00/M
Low Freq. Amp	MT-1	50	500mA	85	340	2SB1321A0ACT-ND†	.46	.37	.28	2SB1321A0ATB-ND	2,000	129.00/M
Low Freq. Amp	MT-2	50	2A	120	340	2SB143400ACT-ND†	.68	.52	.39	2SB143400ATB-ND	2,000	227.00/M
Low Freq. Amp	MT-2	50	1A	85	340	2SB1322A0ACT-ND†	.59	.44	.33	2SB1322A0ATB-ND	2,000	195.00/M
Low Freq. Amp	MT-2	25	5A	90	135	2SB13980PACT-ND†	.82	.69	.55	2SB13980PATB-ND	2,000	364.00/M
Low Freq. Amp	MT-2	25	5A	120	205	2SB13980QACT-ND†	.82	.69	.55	2SB13980QATB-ND	2,000	364.00/M
Low Freq. Output Amp	MT-2	80	1A	170	340	2SA16740SACT-ND†	.64	.49	.37	2SA16740SATB-ND	2,000	213.00/M
Low Freq. Output Amp	MT-2	50	5A	120	240	2SB14460RACT-ND†	.92	.70	.52	2SB14460RATB-ND	2,000	307.00/M
Power Switching	MT-2	400	0.5A	80	160	2SB14880PACT-ND†	.85	.64	.48	2SB14880PATB-ND	2,000	282.00/M
Low Freq. Power Amp	MT-3	60	3A	120	250	2SB14160RACT-ND†	.83	.69	.56	2SB14160RATB-ND	1,000	367.00
Power Switching	MT-3	50	8A	2,000	5,000	2SB15040QACT-ND†	1.43	1.15	.86	2SB15040QATB-ND	1,000	745.00
Power Switching	MT-3	50	8A	4,000	10,000	2SB15040RACT-ND†	1.43	1.15	.86	2SB15040RATB-ND	1,000	745.00
Low Freq. Amp	NEW S Type	50	100mA	160	460	2SA1309A0ACT-ND†	.33	.26	.19	2SA1309A0ATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	500mA	85	340	2SB1030ACT-ND †	.47	.40	.32	2SB1030ATB-ND	5,000	118.00/M
Low Freq. Amp	NEW S Type	50	100mA	160	260	2SA1309AQACT-ND†	.41	.31	.22	2SA1309AQATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	100mA	210	340	2SA1309ARACT-ND†	.41	.31	.22	2SA1309ARATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	100mA	290	460	2SA1309ASACT-ND†	.41	.31	.22	2SA1309ASATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	500mA	120	240	2SB1030ARACT-ND†	.50	.43	.34	2SB1030ARATB-ND	5,000	107.00/M
						NPN Type						
AF High Power Driver	TO-126	120	0.5A	65	330	2SC1567AR-ND	.70	.53	.40	—	—	—
Med. Power Amp	TO-126	18	1A	90	280	2SC15680R-ND	.91	.69	.52	—	—	—
Med. Power Amp	TO-126	35	1A	85	340	2SC18460S-ND	.55	.41	.31	—	—	—
Med. Power Amp	TO-126	40	1.5A	80	220	2SC18470Q-ND	.85	.64	.48	—	—	—
AF Power Pre-Amp	TO-126	150	50mA	130	330	2SC19530S-ND	1.24	1.04	.83	—	—	—
TV Video Out Amp	TO-126	250	0.1A	40	—	2SC2258-ND	.77	.58	.44	—	—	—
AF Power Amp	TO-126	60	1.5A	80	220	2SC2497AQ-ND	1.23	1.03	.83	—	—	—
AF Power Amp	TO-126	120	0.5A	90	220	2SC25900Q-ND	.83	.62	.47	—	—	—
Video Amp	TO-126	50	0.15A	20	—	2SC3611-ND	.64	.49	.37	—	—	—
Horz. Deflection Driver	TO-126	300	0.2A	40	250	2SC4212H-ND	.77	.58	.44	—	—	—
Color Chroma Input	TO-126	400	70mA	30	150	2SC51210P-ND	.77	.58	.44	—	—	—
AF Output Driver	TO-126	100	.5A	130	220	2SC15670R-ND	.70	.53	.40	—	—	—
AF Output Driver	TO-126	100	.5A	185	330	2SC15670S-ND	.70	.53	.40	—	—	—
AF Output Driver	TO-126	50	1.5A	80	160	2SC24970Q-ND	1.23	1.03	.83	—	—	—
AF Output Driver	TO-126	50	1.5A	120	220	2SC24970R-ND	1.23	1.03	.83	—	—	—
Audio Output	TO-126	300	.1A	50	250	2SC3063-ND	.66	.50	.38	—	—	—
AF Amp	TO-126	60	1A	—	—	2SD16450R-ND*	.89	.75	.60	—	—	—
AF Amp	TO-126	60	1A	6,500	40K	2SD2018-ND*	.67	.51	.38	—	—	—

* Darlington † Cut Tape Pricing

(Continued)

Panasonic Transistors and MOSFETs *(Cont.)*

Application	Package	V_{CEO} (V)	I_C	h_{FE}		Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Box	
				Minimum	Maximum		1	10	100		Size	Pricing
						NPN Type						
AF Amp	TO-126	100	2A	4K	10,000	2SD16400Q-ND*	.97	.73	.55	—	—	—
AF Amp	TO-126	100	2A	8K	20,000	2SD16400R-ND*	.97	.73	.55	—	—	—
Color Chroma Output	TO-220F	300	0.1A	50	250	2SC3942-ND	.96	.81	.65	—	—	—
Video Amp	TO-220F	50	0.15A	20	—	2SC3943-ND	1.35	1.13	.91	—	—	—
High Power Amp	TO-220F	180	1A	95	220	2SC3944AQ-ND	1.08	.91	.73	—	—	—
Power Amp	TO-220F	80	4A	70	250	2SD1267AP-ND	1.35	1.13	.90	—	—	—
Power Switching	TO-220F	100	7A	45	260	2SD1271AP-ND	1.60	1.29	.97	—	—	—
Power Amp	TO-220F	80	2A	1,000	10,000	2SD1275AP-ND*	1.08	.90	.72	—	—	—
Power Amp	TO-220F	80	4A	1,000	10,000	2SD1276AP-ND*	1.28	1.07	.86	—	—	—
Med. Speed Switch	TO-220F	80	8A	2,000	10,000	2SD1277AP-ND*	1.45	1.17	.88	—	—	—
High DC Current Gain	TO-220F	60	6A	300	2,000	2SD14740P-ND	1.44	1.16	.87	—	—	—
High Power Amp	TO-220F	100	5A	20	200	2SD14990P-ND	1.46	1.22	.98	—	—	—
Power Switching	TO-220F	60	4A	70	250	2SD20000P-ND	.89	.75	.60	—	—	—
High Speed Switch	TO-220D	400	3A	10	—	2SC4953-ND	1.28	1.03	.77	—	—	—
General Amp	TO-220D	80	3A	70	250	2SD2374AP-ND	.77	.65	.52	—	—	—
High Gain	TO-220D	60	3A	500	1,500	2SD23750P-ND	.97	.81	.65	—	—	—
Power Amp	TO-220D	180	1.5A	60	240	2SC59930P-ND	.83	.70	.56	—	—	—
Power Amp	TO-220D	180	1.5A	60	240	2SC59930Q-ND	.83	.70	.56	—	—	—
Power Amp	TO-220D	60	3A	—	—	2SC57390P-ND	.92	.77	.62	—	—	—
High Gain	TO-220D	60	5A	500	2,000	2SD2528-ND	1.28	1.03	.77	—	—	—
General Amp	TO-220D	80	3A	70	250	2SD25490P-ND	.92	.70	.52	—	—	—
Power Amp	MT-4	60	3A	160	320	2SC57880PACT-ND†	.97	.82	.65	2SC57880PATB-ND	1,000	432.00
Power Amp	MT-4	60	3A	120	250	2SC57880QACT-ND†	.97	.82	.65	2SC57880QATB-ND	1,000	432.00
Power Amp	MT-4	80	3A	70	2,500	2SD2137APACT-ND†	1.08	.90	.72	2SD2137APATB-ND	1,000	478.00
Power Amp	MT-4	80	2A	1,000	10,000	2SD2138AQACT-ND†	1.35	1.13	.90	2SD2138AQATB-ND	1,000	597.00
High DC Current Gain	MT-4	60	3A	500	2,500	2SD21390PACT-ND†	1.15	.97	.77	2SD21390PATB-ND	1,000	512.00
AF Amp	TO-92L	25	1A	120	240	2SC13830R-ND	.57	.46	.35	—	—	—
AF Amp	TO-92L	25	1A	170	340	2SC13830S-ND	.57	.46	.35	—	—	—
AF Amp	TO-92L	50	1A	85	170	2SC13840Q-ND	.57	.46	.35	—	—	—
AF Amp	TO-92L	50	1A	120	120	2SC13840R-ND	.57	.46	.35	—	—	—
AF Amp	TO-92L	50	1A	170	340	2SC13840S-ND	.57	.46	.35	—	—	—
AF Output Amp	TO-92L	80	.5A	130	220	2SC15090R-ND	.71	.54	.41	—	—	—
AF Output Amp	TO-92L	80	.5A	185	330	2SC15090S-ND	.71	.54	.41	—	—	—
AF Output Amp	TO-92L	20	1A	130	220	2SC15180R-ND	.98	.74	.56	—	—	—
General Amp	TO-92L	200	70mA	60	150	2SC15730Q-ND	.62	.47	.35	—	—	—
General Amp	TO-92L	200	70mA	100	220	2SC15730R-ND	.62	.47	.35	—	—	—
General Amp	TO-92L	300	70mA	60	150	2SC1573AQ-ND	.52	.40	.30	—	—	—
General Amp	TO-92L	300	70mA	100	220	2SC1573AR-ND	.52	.40	.30	—	—	—
General Amp	TO-92L	400	70mA	60	150	2SC1573BQ-ND	.52	.40	.30	—	—	—
General Amp	TO-92L	400	70mA	100	220	2SC1573BR-ND	.52	.40	.30	—	—	—
AF HV Amp	TO-92L	150	50mA	130	220	2SC26320R-ND	.66	.50	.38	—	—	—
AF Amp	TO-92L	120	.5A	130	220	2SD12110R-ND	.76	.57	.43	—	—	—
AF Amp	TO-92L	120	.5A	185	330	2SD12110S-ND	.76	.57	.43	—	—	—
AF Output Amp	TO-92L	20	5A	230	380	2SD09660Q-ND	1.00	.76	.57	—	—	—
AF Output Amp	TO-92L	20	5A	340	600	2SD09660R-ND	1.00	.76	.57	—	—	—
AF Output Amp	TO-92NL	80	.5A	130	220	2SC39390RACT-ND†	.57	.43	.33	2SC39390RATB-ND	3,000	186.00/M
AF Output Amp	TO-92NL	80	.5A	185	330	2SC39390SACT-ND†	.57	.43	.33	2SC39390SATB-ND	3,000	186.00/M
AF Output Amp	TO-92NL	25	1A	120	240	2SC39400RACT-ND†	.54	.44	.33	2SC39400RATB-ND	3,000	144.00/M
AF Output Amp	TO-92NL	25	1A	170	340	2SC39400SACT-ND†	.59	.47	.36	2SC39400SATB-ND	3,000	144.00/M
AF Output Amp	TO-92NL	50	1A	85	170	2SC3940AQACT-ND†	.59	.47	.36	2SC3940AQATB-ND	3,000	156.00/M
AF Output Amp	TO-92NL	50	1A	120	240	2SC3940ARACT-ND†	.59	.47	.36	2SC3940ARATB-ND	3,000	156.00/M
AF Output Amp	TO-92NL	50	1A	170	340	2SC3940ASACT-ND†	.59	.47	.36	2SC3940ASATB-ND	3,000	156.00/M
General Amp	TO-92NL	300	70mA	60	150	2SC39410QACT-ND†	.49	.37	.28	2SC39410QATB-ND	3,000	158.00/M
General Amp	TO-92NL	300	70mA	100	220	2SC39410RACT-ND†	.49	.37	.28	2SC39410RATB-ND	3,000	158.00/M
AF Output Amp	TO-92NL	50	.5A	120	240	2SC4208ARACT-ND†	.54	.44	.33	2SC4208ARATB-ND	3,000	144.00/M
General Amp	MT-1	50	100mA	160	460	2SD1991A0ACT-ND†	.36	.28	.20	2SD1991A0ATB-ND	2,000	85.00/M
General Amp	MT-1	50	500mA	210	340	2SD1991ARACT-ND†	.36	.28	.20	2SD1991ARATB-ND	2,000	85.00/M
Low Freq. Amp	MT-1	20	500mA	200	350	2SD19960RACT-ND†	.58	.47	.35	2SD19960RATB-ND	2,000	162.00/M
Low Freq. Amp	MT-1	20	500mA	300	500	2SD19960SACT-ND†	.58	.47	.35	2SD19960SATB-ND	2,000	162.00/M
Low Freq. Amp	MT-1	20	500mA	400	800	2SD19960TACT-ND†	.58	.47	.35	2SD19960TATB-ND	2,000	162.00/M
Low Freq. Amp	MT-2	50	2A	120	340	2SD217700ACT-ND†	.93	.70	.53	2SD217700ATB-ND	2,000	311.00/M
Low Freq. Amp	MT-2	60	2A	120	340	2SD2177A0ACT-ND†	.93	.70	.53	2SD2177A0ATB-ND	2,000	311.00/M
Low Freq. Amp	MT-2	50	1A	120	240	2SD1994ARACT-ND†	.56	.45	.34	2SD1994ARATB-ND	2,000	157.00/M
Low Freq. Amp	MT-2	50	1A	170	340	2SD1994ASACT-ND†	.56	.45	.34	2SD1994ASATB-ND	2,000	157.00/M
Low Freq. Amp	MT-2	50	100mA	170	340	2SD21770SACT-ND†	.89	.67	.51	2SD21770SATB-ND	2,000	297.00/M
AF Output Amp	MT-2	80	1A	120	240	2SC43910RACT-ND†	.50	.38	.28	2SC43910RATB-ND	2,000	165.00/M
AF Power Amp	MT-2	20	5A	340	600	2SD22490RACT-ND†	.62	.47	.35	2SD22490RATB-ND	2,000	205.00/M
AF Amp	MT-2	50	500mA	8,000	20,000	2SD25980RACT-ND†	.56	.46	.34	2SD25980RATB-ND	2,000	158.00/M
AF Output Amp	MT-3	50	1A	120	240	2SD21330RACT-ND†	.72	.54	.41	2SD21330RATB-ND	1,000	239.00
AF Output Amp	MT-3	50	1A	170	340	2SD21330SACT-ND†	.72	.54	.41	2SD21330SATB-ND	1,000	239.00
AF High Power Driver	MT-3	150	1A	130	220	2SD21340RACT-ND†	.82	.69	.55	2SD21340RATB-ND	1,000	363.00
Power Amp	MT-3	60	3A	70	150	2SD21360QACT-ND†	.99	.74	.56	2SD21360QATB-ND	1,000	328.00
Power Amp	MT-3	60	3A	120	250	2SD21360RACT-ND†	.74	.62	.50	2SD21360RATB-ND	1,000	328.00
AF Output Amp	MT-3	50	2A	120	240	2SD21780RACT-ND†	.83	.63	.47	2SD21780RATB-ND	1,000	277.00
AF Output Amp	MT-3	50	2A	170	340	2SD21780SACT-ND†	.83	.63	.47	2SD21780SATB-ND	1,000	277.00
AF Amp	MT-3	80	1A	8,000	20,000	2SD22200RACT-ND†	.77	.65	.52	2SD22200RATB-ND	1,000	341.00
AF Amp	MT-3	100	2A	8,000	20,000	2SD24790RACT-ND†	.96	.81	.65	2SD24790RATB-ND	1,000	427.00
Low Freq. Amp	NEW S Type	50	100mA	160	460	2SC3311A0ACT-ND†	.33	.26	.19	2SC3311A0ATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	500mA	85	340	2SD1423ACT-ND †	.48	.40	.32	2SD1423ATB-ND	5,000	119.00/M
Low Freq. Amp	NEW S Type	20	500mA	200	800	2SD145000ACT-ND†	.42	.34	.26	2SD145000ATB-ND	5,000	107.00/M
Low Freq. Amp	NEW S Type	50	100mA	160	260	2SC3311AQACT-ND†	.41	.31	.22	2SC3311AQATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	100mA	210	340	2SC3311ARACT-ND†	.41	.31	.22	2SC3311ARATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	50	100mA	290	460	2SC3311ASACT-ND†	.41	.31	.22	2SC3311ASATB-ND	5,000	70.00/M
Low Freq. Amp	NEW S Type	20	500mA	200	350	2SD14500RACT-ND†	.50	.43	.34	2SD14500RATB-ND	5,000	107.00/M
Low Freq. Amp	NEW S Type	20	500mA	300	500	2SD14500SACT-ND†	.50	.43	.34	2SD14500SATB-ND	5,000	107.00/M
Low Freq. Amp	NEW S Type	20	500mA	400	800	2SD14500TACT-ND†	.50	.43	.34	2SD14500TATB-ND	5,000	107.00/M
Low Freq. Amp	NEW S Type	50	500mA	120	240	2SD1423ARACT-ND†	.50	.43	.34	2SD1423ARATB-ND	5,000	107.00/M

* Darlington † Cut Tape Pricing

Power MOSFETs

Package	V_{DSS} (V)	V_{GSS} (V)	I_D	R_{DS} (on) Type (Ω)	Digi-Key Part No.	Price Each				
						1	10	100	500	1,000
					N-Channel Type					
TO-220D	450	30	5A	1.0	2SK3043-ND	1.83	1.47	1.10	.99	.96
	450	30	7A	0.56	2SK3044-ND	2.47	1.98	1.48	1.34	1.29
	500	30	2.5A	3.2	2SK3045-ND	1.54	1.24	.93	.84	.81
	500	30	7A	0.7	2SK3046-ND	2.41	1.93	1.45	1.30	1.26
	800	30	2A	4.8	2SK3047-ND	1.86	1.49	1.12	1.01	.97
	600	30	3A	1.7	2SK3048-ND	1.80	1.44	1.08	.97	.94

Panasonic Surface Mount MOSFETs

Dim. in mm

Mini Power Type Package

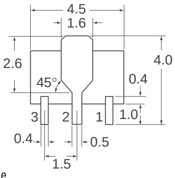

1. Gate
2. Drain
3. Source

Mini Type Package (3-pin)

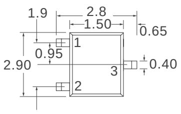

1. Gate
2. Source
3. Drain

S-Mini Type Package (3-pin)

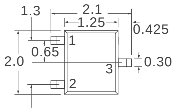

1. Gate
2. Source
3. Drain

S-Mini Type Package (5-pin)

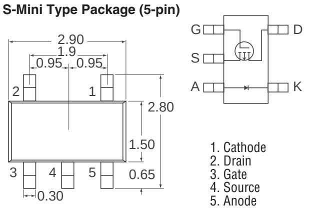

1. Cathode
2. Drain
3. Gate
4. Source
5. Anode

S-Mini Type Package (5-pin)

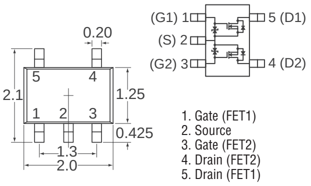

1. Gate (FET1)
2. Source
3. Gate (FET2)
4. Drain (FET2)
5. Drain (FET1)

S-Mini Type Package (6-pin)

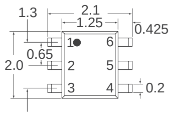

1. Source
2. Gate
3. Drain
4. Source
5. Gate
6. Source

SS-Mini Type Package (3-Pin)

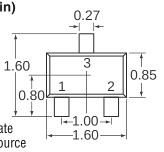

1. Gate
2. Source
3. Drain

SS-Mini Type Package (6-Pin)

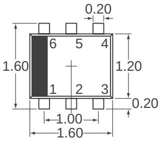

UP0487800

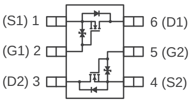

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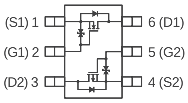

1. Source (FET.1)
2. Gate (FET.1)
3. Drain (FET.2)
4. Source (FET.2)
5. Gate (FET.2)
6. Drain (FET.1)

SSS-Mini Type Package (3-Pin)

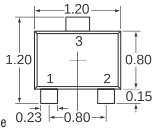

1. Drain
2. Source
3. Gate

Package	V_{DS} (V)	I_D (mA)	R_{DS} (on) Typ. (Ω)	PD Max. (mW)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
Small Signal/Switching MOSFET — N-Channel Type											
S-Mini 3P	30+	1000	30	150	2SK306400LCT-ND	.46	.39	.31	2SK306400LTR-ND	3,000	123.00/M
S-Mini 3P	50+	1000	8/6	150	2SK353900LCT-ND	.43	.35	.26	2SK353900LTR-ND	3,000	114.00/M
Mini 3P	50+	500	27	150	2SK122800LCT-ND	.51	.43	.35	2SK122800LTR-ND	3,000	137.00/M
Mini Pwr	80+	500	2	1000	2SK060100LCT-ND	1.19	1.00	.80	2SK060100LTR-ND	1,000	529.00
Mini Pwr	30+	1000	0.48	1000	2SK221100LCT-ND	.60	.45	.34	2SK221100LTR-ND	1,000	199.00
SSS-Mini 3P	20*	.1	—	100	2SK33720RLCT-ND	.53	.43	.32	2SK33720RLTR-ND	10,000	133.00/M
SSS-Mini 3P	20*	.135	—	100	2SK33720SLCT-ND	.53	.43	.32	2SK33720SLTR-ND	10,000	133.00/M
SSS-Mini 3P	20*	.180	—	100	2SK33720TLCT-ND	.53	.43	.32	2SK33720TLTR-ND	10,000	133.00/M
SSS-Mini 3P	20*	.290	—	100	2SK33720ULCT-ND	.53	.43	.32	2SK33720ULTR-ND	10,000	133.00/M
SS-Mini 3P	50	100	8/6	125	2SK3546J0LCT-ND	.43	.35	.26	2SK3546J0LTR-ND	3,000	114.00/M
SSS-Mini 3P	50	100	8/6	100	2SK354700LCT-ND	.48	.39	.29	2SK354700LTR-ND	10,000	120.00/M
S-Mini 5-P	50+	100	8/6	150	XP0187800LCT-ND	.63	.48	.36	XP0187800LTR-ND	3,000	204.00/M
S-Mini 6P	50+	1000	8/6	150	XP0487800LCT-ND	.68	.51	.39	XP0487800LTR-ND	3,000	221.00/M
SS-Mini 6P	50+	100	8/6	125	UP0487800LCT-ND	.71	.54	.40	UP0487800LTR-ND	8,000	226.00/M
SS-Mini 6P	50+	100	8/6	125	UP0497900LCT-ND	.71	.54	.40	UP0497900LTR-ND	8,000	226.00/M
Small Signal/Switching MOSFET — P-Channel Type											
S-Mini 3P	65	20	—	150	2SJ03640QLCT-ND	.70	.53	.40	2SJ03640QLTR-ND	3,000	228.00/M
S-Mini 3P	30+	100	50	150	2SJ053600LCT-ND	.48	.40	.32	2SJ053600LTR-ND	3,000	127.00/M
S-Mini 5P	12+	1200	0.35	600	XN0NE9200LCT-ND	.77	.58	.44	XN0NE9200LTR-ND	3,000	250.00/M

+ VDSS   * VDSO

PNP/NPN Transistors

NEW S Type

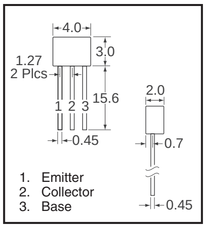

1. Emitter
2. Collector
3. Base

Res. Value R_B K Ohms	R_{BE} K Ohms	hFE min. V_{CE}= 10V Ic=5mA	VCEO (V)	IC (mA)	PT (mW)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 5,000
PNP											
22	22	60	50	100	300	UNR411200ACT-ND	.45	.38	.31	UNR411200ATB-ND	114.00/M
47	47	80	50	100	300	UNR411300ACT-ND	.45	.38	.31	UNR411300ATB-ND	114.00/M
4.7	10	30	50	100	300	UNR411F00ACT-ND	.45	.38	.31	UNR411F00ATB-ND	114.00/M
4.7	4.7	20	50	100	300	UNR411L00ACT-ND	.45	.38	.31	UNR411L00ATB-ND	114.00/M
2.2	10	60•	50	500	300	UNR412400ACT-ND	.56	.45	.34	UNR412400ATB-ND	142.00/M
NPN											
47	47	80	50	100	300	UNR421300ACT-ND	.45	.38	.31	UNR421300ATB-ND	114.00/M
0.51	5.1	20	50	100	300	UNR421800ACT-ND	.45	.38	.31	UNR421800ATB-ND	114.00/M
10	10	60•	50	500	300	UNR422300ACT-ND	.56	.45	.34	UNR422300ATB-ND	142.00/M
2.2	10	60•	50	500	300	UNR422400ACT-ND	.56	.45	.34	UNR422400ATB-ND	142.00/M

• Ic=100mA

Mini Type

Surface Mount with built-in resistors for preset gains

V_{CEO}=50V/-50V **PT=200mW**
IC=100mA/-100mA **JEDEC:TO-236**
EIAJ: SC-59A

1. Base
2. Emitter
3. Collector

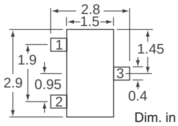

Dim. in mm

Resistance Value R_B K Ohms	R_{BE} K Ohms	hFE min Vce=10V IC=5mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
PNP									
10	10	35	UNR211100LCT-ND	.37	.28	.20	UNR211100LTR-ND	3,000	74.00/M
22	22	60	UNR211200LCT-ND	.37	.28	.20	UNR211200LTR-ND	3,000	74.00/M
47	47	80	UNR211300LCT-ND	.37	.28	.20	UNR211300LTR-ND	3,000	74.00/M
10	47	80	UNR211400LCT-ND	.37	.28	.20	UNR211400LTR-ND	3,000	74.00/M
10	∞	160	UNR211500LCT-ND	.37	.28	.20	UNR211500LTR-ND	3,000	74.00/M
4.7	∞	160	UNR211600LCT-ND	.37	.28	.20	UNR211600LTR-ND	3,000	74.00/M
22	∞	160	UNR211700LCT-ND	.37	.28	.20	UNR211700LTR-ND	3,000	74.00/M
0.51	5.1	20	UNR211800LCT-ND	.37	.28	.20	UNR211800LTR-ND	3,000	74.00/M
1	10	30	UNR211900LCT-ND	.37	.28	.20	UNR211900LTR-ND	3,000	74.00/M
47	∞	160	UNR211000LCT-ND	.37	.28	.20	UNR211000LTR-ND	3,000	74.00/M
47	10	30	UNR211D00LCT-ND	.37	.28	.20	UNR211D00LTR-ND	3,000	74.00/M
47	22	60	UNR211E00LCT-ND	.37	.28	.20	UNR211E00LTR-ND	3,000	74.00/M
4.7	10	30	UNR211F00LCT-ND	.37	.28	.20	UNR211F00LTR-ND	3,000	74.00/M
2.2	10	30	UNR211H00LCT-ND	.37	.28	.20	UNR211H00LTR-ND	3,000	74.00/M
4.7	4.7	20	UNR211L00LCT-ND	.37	.28	.20	UNR211L00LTR-ND	3,000	74.00/M
2.2	47	80	UNR211M00LCT-ND	.37	.28	.20	UNR211M00LTR-ND	3,000	74.00/M
4.7	47	80	UNR211N00LCT-ND	.37	.28	.20	UNR211N00LTR-ND	3,000	74.00/M
2.2	2.2	6	UNR211V00LCT-ND	.37	.28	.20	UNR211V00LTR-ND	3,000	74.00/M
0.27	5	20‡	UNR212X00LCT-ND	.56	.46	.34	UNR212X00LTR-ND	3,000	150.00/M
2.2	2.2	40	UNR212100LCT-ND	.59	.47	.36	UNR212100LTR-ND	3,000	156.00/M
4.7	4.7	50	UNR212200LCT-ND	.59	.47	.36	UNR212200LTR-ND	3,000	156.00/M
10	10	60	UNR212300LCT-ND	.59	.47	.36	UNR212300LTR-ND	3,000	156.00/M
2.2	10	60	UNR212400LCT-ND	.59	.47	.36	UNR212400LTR-ND	3,000	156.00/M
NPN									
10	10	35	UNR221100LCT-ND	.37	.28	.20	UNR221100LTR-ND	3,000	74.00/M
22	22	60	UNR221200LCT-ND	.37	.28	.20	UNR221200LTR-ND	3,000	74.00/M
47	47	80	UNR221300LCT-ND	.37	.28	.20	UNR221300LTR-ND	3,000	74.00/M
10	47	80	UNR221400LCT-ND	.37	.28	.20	UNR221400LTR-ND	3,000	74.00/M
10	∞	160	UNR221500LCT-ND	.37	.28	.20	UNR221500LTR-ND	3,000	74.00/M
4.7	∞	160	UNR221600LCT-ND	.37	.28	.20	UNR221600LTR-ND	3,000	74.00/M
22	∞	160	UNR221700LCT-ND	.37	.28	.20	UNR221700LTR-ND	3,000	74.00/M
0.51	5.1	20	UNR221800LCT-ND	.37	.28	.20	UNR221800LTR-ND	3,000	74.00/M
1	10	30	UNR221900LCT-ND	.37	.28	.20	UNR221900LTR-ND	3,000	74.00/M
47	∞	160	UNR221000LCT-ND	.37	.28	.20	UNR221000LTR-ND	3,000	74.00/M
47	10	30	UNR221D00LCT-ND	.37	.28	.20	UNR221D00LTR-ND	3,000	74.00/M
47	22	60	UNR221E00LCT-ND	.37	.28	.20	UNR221E00LTR-ND	3,000	74.00/M
4.7	10	30	UNR221F00LCT-ND	.37	.28	.20	UNR221F00LTR-ND	3,000	74.00/M
10	4.7	20	UNR221K00LCT-ND	.37	.28	.20	UNR221K00LTR-ND	3,000	74.00/M
4.7	4.7	20	UNR221L00LCT-ND	.37	.28	.20	UNR221L00LTR-ND	3,000	74.00/M
2.2	47	80	UNR221M00LCT-ND	.37	.28	.20	UNR221M00LTR-ND	3,000	74.00/M
4.7	47	80	UNR221N00LCT-ND	.37	.28	.20	UNR221N00LTR-ND	3,000	74.00/M
22	47	80	UNR221T00LCT-ND	.36	.27	.19	UNR221T00LTR-ND	3,000	72.00/M
2.2	2.2	6	UNR221V00LCT-ND	.37	.28	.20	UNR221V00LTR-ND	3,000	74.00/M
2.2	2.2	40	UNR222100LCT-ND	.54	.44	.33	UNR222100LTR-ND	3,000	144.00/M
4.7	4.7	50	UNR222200LCT-ND	.54	.44	.33	UNR222200LTR-ND	3,000	144.00/M
10	10	60	UNR222300LCT-ND	.44	.35	.27	UNR222300LTR-ND	3,000	116.00/M
2.2	10	60	UNR222400LCT-ND	.54	.44	.33	UNR222400LTR-ND	3,000	144.00/M
4.7	∞	100	UNR222600LCT-ND	.44	.35	.27	UNR222600LTR-ND	3,000	116.00/M
1	47	800	UNR723100LCT-ND*	.66	.50	.38	UNR723100LTR-ND*	1,000	219.00

***Mini Power Type** **VCEO**-20V **IC**=700mA **PT**-1000mW   ‡ **IC=**500mA

Panasonic® PNP/NPN Transistors

S-Mini Type

Surface Mount with built-in resistors for preset gains

VCEO=50V/-50V **PT=150mW**
IC=100mA/-100mA **EIAJ: SC-70**

1. Base
2. Emitter
3. Collector

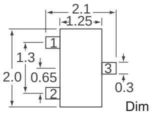

Dim. in mm

Resistance Value		hFE min	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	3,000
PNP								
10	10	35	UNR511100LCT-ND	.40	.30	.21	UNR511100LTR-ND	79.00/M
22	22	60	UNR511200LCT-ND	.40	.30	.21	UNR511200LTR-ND	79.00/M
47	47	80	UNR511300LCT-ND	.40	.30	.21	UNR511300LTR-ND	79.00/M
10	47	80	UNR511400LCT-ND	.40	.30	.21	UNR511400LTR-ND	79.00/M
10	∞	160	UNR511500LCT-ND	.40	.30	.21	UNR511500LTR-ND	79.00/M
4.7	∞	160	UNR511600LCT-ND	.40	.30	.21	UNR511600LTR-ND	79.00/M
22	∞	160	UNR511700LCT-ND	.40	.30	.21	UNR511700LTR-ND	79.00/M
0.51	5.1	20	UNR511800LCT-ND	.40	.30	.21	UNR511800LTR-ND	79.00/M
1	10	30	UNR511900LCT-ND	.40	.30	.21	UNR511900LTR-ND	79.00/M
47	∞	160	UNR511000LCT-ND	.40	.30	.21	UNR511000LTR-ND	79.00/M
47	10	30	UNR511D00LCT-ND	.40	.30	.21	UNR511D00LTR-ND	79.00/M
47	22	60	UNR511E00LCT-ND	.40	.30	.21	UNR511E00LTR-ND	79.00/M
4.7	10	30	UNR511F00LCT-ND	.40	.30	.21	UNR511F00LTR-ND	79.00/M
2.2	10	30	UNR511H00LCT-ND	.40	.30	.21	UNR511H00LTR-ND	79.00/M
4.7	4.7	20	UNR511L00LCT-ND	.40	.30	.21	UNR511L00LTR-ND	79.00/M
2.2	47	80	UNR511M00LCT-ND	.40	.30	.21	UNR511M00LTR-ND	79.00/M
4.7	47	80	UNR511N00LCT-ND	.40	.30	.21	UNR511N00LTR-ND	79.00/M
2.2	2.2	6	UNR511V00LCT-ND	.40	.30	.21	UNR511V00LTR-ND	79.00/M
NPN								
10	10	35	UNR521100LCT-ND	.40	.30	.21	UNR521100LTR-ND	79.00/M
22	22	60	UNR521200LCT-ND	.40	.30	.21	UNR521200LTR-ND	79.00/M
47	47	80	UNR521300LCT-ND	.40	.30	.21	UNR521300LTR-ND	79.00/M
10	47	80	UNR521400LCT-ND	.40	.30	.21	UNR521400LTR-ND	79.00/M
10	∞	160	UNR521500LCT-ND	.40	.30	.21	UNR521500LTR-ND	79.00/M
4.7	∞	160	UNR521600LCT-ND	.40	.30	.21	UNR521600LTR-ND	79.00/M
22	∞	160	UNR521700LCT-ND	.40	.30	.21	UNR521700LTR-ND	79.00/M
0.51	5.1	20	UNR521800LCT-ND	.40	.30	.21	UNR521800LTR-ND	79.00/M
1	10	30	UNR521900LCT-ND	.40	.30	.21	UNR521900LTR-ND	79.00/M
47	∞	160	UNR521000LCT-ND	.40	.30	.21	UNR521000LTR-ND	79.00/M
47	10	30	UNR521D00LCT-ND	.40	.30	.21	UNR521D00LTR-ND	79.00/M
47	22	60	UNR521E00LCT-ND	.40	.30	.21	UNR521E00LTR-ND	79.00/M
4.7	10	30	UNR521F00LCT-ND	.40	.30	.21	UNR521F00LTR-ND	79.00/M
10	4.7	20	UNR521K00LCT-ND	.40	.30	.21	UNR521K00LTR-ND	79.00/M
4.7	4.7	20	UNR521L00LCT-ND	.40	.30	.21	UNR521L00LTR-ND	79.00/M
2.2	47	80	UNR521M00LCT-ND	.40	.30	.21	UNR521M00LTR-ND	79.00/M
4.7	47	80	UNR521N00LCT-ND	.40	.30	.21	UNR521N00LTR-ND	79.00/M
2.2	2.2	6	UNR521V00LCT-ND	.40	.30	.21	UNR521V00LTR-ND	79.00/M

SSS-Mini Type

Surface Mount with built-in-resistors for preset gains

VCEO= -50V/50V
IC= -80mA/80mA
PT=100mW

1. Base
2. Emitter
3. Collector

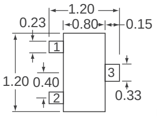

Dim. in mm

Resistance Value		hFE min	Digi-Key	Cut Tape Price Each			Digi-Key	T&R Pricing
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	10,000
PNP								
47	22	60	UNR31AE00LCT-ND	.41	.33	.23	UNR31AE00LTR-ND	80.00/M
47	∞	160	UNR31A000LCT-ND	.41	.33	.23	UNR31A000LTR-ND	80.00/M
10	10	35	UNR31A100LCT-ND	.41	.33	.23	UNR31A100LTR-ND	80.00/M
47	47	80	UNR31A300LCT-ND	.41	.33	.23	UNR31A300LTR-ND	80.00/M
10	47	80	UNR31A400LCT-ND	.41	.33	.23	UNR31A400LTR-ND	80.00/M
10	∞	160	UNR31A500LCT-ND	.41	.33	.23	UNR31A500LTR-ND	80.00/M
4.7	∞	160	UNR31A600LCT-ND	.41	.33	.23	UNR31A600LTR-ND	80.00/M
10	10	35	UNR311100LCT-ND‡	.40	.33	.27	UNR311100LTR-ND	93.00/M
22	22	60	UNR311200LCT-ND‡	.41	.34	.23	UNR311200LTR-ND	95.00/M
47	47	80	UNR311300LCT-ND‡	.39	.33	.27	UNR311300LTR-ND	92.00/M
2.2	47	80	UNR31AM00LCT-ND	.37	.29	.21	UNR31AM00LTR-ND	72.00/M
4.7	47	80	UNR31AN00LCT-ND	.37	.29	.21	UNR31AN00LTR-ND	72.00/M
NPN								
100	100	80	UNR32AA00LCT-ND	.41	.33	.23	UNR32AA00LTR-ND	80.00/M
47	∞	160	UNR32A000LCT-ND	.41	.33	.23	UNR32A000LTR-ND	80.00/M
10	10	35	UNR32A100LCT-ND	.41	.33	.23	UNR32A100LTR-ND	80.00/M
47	47	80	UNR32A300LCT-ND	.41	.33	.23	UNR32A300LTR-ND	80.00/M
10	47	80	UNR32A400LCT-ND	.41	.33	.23	UNR32A400LTR-ND	80.00/M
10	∞	160	UNR32A500LCT-ND	.41	.33	.23	UNR32A500LTR-ND	80.00/M
4.7	∞	160	UNR32A600LCT-ND	.41	.33	.23	UNR32A600LTR-ND	80.00/M
4.7	47	80	UNR321N00LCT-ND‡	.39	.33	.27	UNR321N00LTR-ND	92.00/M
47	∞	160	UNR321000LCT-ND‡	.40	.33	.27	UNR321000LTR-ND	93.00/M
47	47	80	UNR321300LCT-ND‡	.39	.33	.27	UNR321300LTR-ND	92.00/M
4.7	∞	160	UNR321600LCT-ND‡	.39	.33	.27	UNR321600LTR-ND	92.00/M
100	∞	160	UNR32AB00LCT-ND	.37	.29	.21	—	—
47	22	60	UNR32AE00LCT-ND	.37	.29	.21	UNR32AE00LTR-ND	72.00/M
2.2	47	80	UNR32AM00LCT-ND	.37	.29	.21	UNR32AM00LTR-ND	72.00/M
4.7	47	80	UNR32AN00LCT-ND	.37	.29	.21	UNR32AN00LTR-ND	72.00/M
22	47	80	UNR32AT00LCT-ND	.37	.29	.21	UNR32AT00LTR-ND	72.00/M

‡ IC=100mA

1006 Leadless Type

Surface Mount with built-in resistors for preset gains

VCEO= 50V/-50V
IC= 80mA/-80mA **PT=100mW**

1. Base
2. Emitter
3. Collector

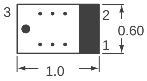

Dim. in mm

Res. Value		hFE min	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	10,000
PNP								
47	47	80	UNRF1A300ACT-ND	.46	.38	.31	UNRF1A300ATR-ND	106.00/M
10	47	80	UNRF1A400ACT-ND	.46	.38	.31	UNRF1A400ATR-ND	106.00/M
NPN								
4.7	47	80	UNRF2AN00ACT-ND	.46	.38	.31	UNRF2AN00ATR-ND	106.00/M
10	10	35	UNRF2A100ACT-ND	.46	.38	.31	UNRF2A100ATR-ND	106.00/M
47	47	80	UNRF2A300ACT-ND	.46	.38	.31	UNRF2A300ATR-ND	106.00/M
22	∞	160	UNRF2A700ACT-ND	.46	.38	.31	UNRF2A700ATR-ND	106.00/M

1008 Mold Leadless Type

Surface Mount with built-in-resistors for preset gains

VCEO= -50V/50V
IC= -100mA/100mA
PT=150mW

1. Base
2. Emitter
3. Collector
4. Collector

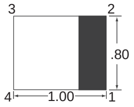

Dim. in mm

Resistance Value		hFE min	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	10,000
PNP								
10	10	35	UNRL11100ACT-ND	.69	.53	.40	UNRL11100ATR-ND	217.00/M
47	47	80	UNRL11300ACT-ND	.69	.53	.40	UNRL11300ATR-ND	217.00/M
10	∞	160	UNRL11500ACT-ND	.69	.53	.40	UNRL11500ATR-ND	217.00/M
NPN								
10	10	35	UNRL21100ACT-ND	.69	.53	.40	UNRL21100ATR-ND	217.00/M
47	47	80	UNRL21300ACT-ND	.69	.53	.40	UNRL21300ATR-ND	217.00/M
10	∞	160	UNRL21500ACT-ND	.69	.53	.40	UNRL21500ATR-ND	217.00/M

SS-Mini Flat (J-Type)

Surface Mount with built in resistors for preset gains

VCEO=50V/50V
IC=100mA/-100mA
PT=125mW
EIAJ: SC-81

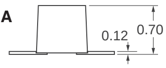

1. Base
2. Emitter
3. Collector

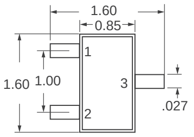

Dim. in mm

Resistance Value		hFE min	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing
RB KΩ	RBE KΩ	Vce=10V IC=5mA	Part No.	1	10	100	Part No.	3,000
PNP								
10	10	35	UNR9111J0LCT-ND	.40	.30	.21	UNR9111J0LTR-ND	80.00/M
22	22	60	UNR9112J0LCT-ND	.40	.30	.21	UNR9112J0LTR-ND	80.00/M
47	47	80	UNR9113J0LCT-ND	.40	.30	.21	UNR9113J0LTR-ND	80.00/M
10	47	80	UNR9114J0LCT-ND	.40	.30	.21	UNR9114J0LTR-ND	80.00/M
10	∞	160	UNR9115J0LCT-ND	.40	.30	.21	UNR9115J0LTR-ND	80.00/M
4.7	∞	160	UNR9116J0LCT-ND	.40	.30	.21	UNR9116J0LTR-ND	80.00/M
22	∞	160	UNR9117J0LCT-ND	.40	.30	.21	UNR9117J0LTR-ND	80.00/M
0.51	5.1	20	UNR9118J0LCT-ND	.40	.30	.21	UNR9118J0LTR-ND	80.00/M
1	10	30	UNR9119J0LCT-ND	.40	.30	.21	UNR9119J0LTR-ND	80.00/M
47	∞	160	UNR9110J0LCT-ND	.40	.30	.21	UNR9110J0LTR-ND	80.00/M
22	47	80	UNR911TJ0LCT-ND	.40	.30	.21	UNR911TJ0LTR-ND	80.00/M
47	22	60	UNR911EJ0LCT-ND	.37	.28	.20	UNR911EJ0LTR-ND	74.00/M
4.7	10	30	UNR911FJ0LCT-ND	.37	.28	.20	UNR911FJ0LTR-ND	74.00/M
2.2	10	30	UNR911HJ0LCT-ND	.37	.28	.20	UNR911HJ0LTR-ND	74.00/M
4.7	4.7	20	UNR911LJ0LCT-ND	.37	.28	.20	UNR911LJ0LTR-ND	74.00/M
4.7	47	80	UNR911NJ0LCT-ND	.37	.28	.20	UNR911NJ0LTR-ND	74.00/M
100	100	80	UNR911AJCT-ND	.37	.28	.20	UNR911AJ0LTR-ND	74.00/M
100	∞	160	UNR911BJ0LCT-ND	.37	.28	.20	UNR911BJ0LTR-ND	74.00/M
2.2	47	80	UNR911MJ0LCT-ND	.37	.28	.20	UNR911MJ0LTR-ND	74.00/M
NPN								
10	10	35	UNR9211J0LCT-ND	.40	.30	.21	UNR9211J0LTR-ND	80.00/M
22	22	60	UNR9212J0LCT-ND	.40	.30	.21	UNR9212J0LTR-ND	80.00/M
47	47	80	UNR9213J0LCT-ND	.40	.30	.21	UNR9213J0LTR-ND	80.00/M
10	47	80	UNR9214J0LCT-ND	.40	.30	.21	UNR9214J0LTR-ND	80.00/M
10	∞	160	UNR9215J0LCT-ND	.40	.30	.21	UNR9215J0LTR-ND	80.00/M
4.7	∞	160	UNR9216J0LCT-ND	.40	.30	.21	UNR9216J0LTR-ND	80.00/M
22	∞	160	UNR9217J0LCT-ND	.40	.30	.21	UNR9217J0LTR-ND	80.00/M
0.51	5.1	20	UNR9218J0LCT-ND	.40	.30	.21	UNR9218J0LTR-ND	80.00/M
1	10	30	UNR9219J0LCT-ND	.40	.30	.21	UNR9219J0LTR-ND	80.00/M
47	∞	160	UNR9210J0LCT-ND	.40	.30	.21	UNR9210J0LTR-ND	80.00/M
22	47	80	UNR921MJ0LCT-ND	.40	.30	.21	UNR921MJ0LTR-ND	80.00/M
22	47	80	UNR921TJ0LCT-ND	.40	.30	.21	UNR921TJ0LTR-ND	80.00/M
47	10	30	UNR921DJ0LCT-ND	.37	.28	.20	UNR921DJ0LTR-ND	74.00/M
47	22	60	UNR921EJ0LCT-ND	.37	.28	.20	UNR921EJ0LTR-ND	74.00/M
4.7	10	30	UNR921FJ0LCT-ND	.37	.28	.20	UNR921FJ0LTR-ND	74.00/M
4.7	4.7	20	UNR921LJ0LCT-ND	.37	.28	.20	UNR921LJ0LTR-ND	74.00/M
100	100	80	UNR921AJ0LCT-ND	.37	.28	.20	UNR921AJ0LTR-ND	74.00/M
100	100	160	UNR921BJ0LCT-ND	.37	.28	.20	UNR921BJ0LTR-ND	74.00/M
2.2	2.2	6	UNR921NJ0LCT-ND	.37	.28	.20	UNR921NJ0LTR-ND	74.00/M
2.2	2.2	6	UNR921VJ0LCT-ND	.37	.28	.20	UNR921VJ0LTR-ND	74.00/M

Transistors

Mini, S-Mini, SS-Mini, SSS Mini, 1006 Leadless, Mini Power Type Package

Dim. in mm

Mini Type (3-Pin)

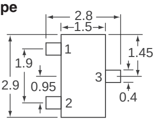

1. Base
2. Emitter
3. Collector

S-Mini Type (3-Pin)

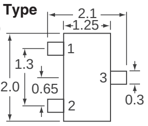

1. Base
2. Emitter
3. Collector

SS-Mini Flat (3-Pin)

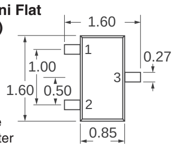

1. Base
2. Emitter
3. Collector

SSS Mini (3-Pin)

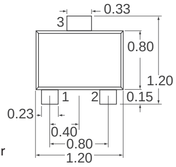

1. Base
2. Emitter
3. Collector

1006 Leadless Type

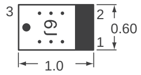

1. Base
2. Emitter
3. Collector

Mini Power Type

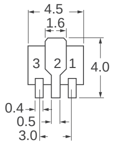

1. Base
2. Collector
3. Emitter

Application	Package	VCEO (V)	IC (mA)	hFE		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel	
				Min.	Max.		1	10	100		Size	Pricing
						PNP Type						
RF Amp	Mini 3P	20	30	70	140	2SA10220BLCT-ND	.38	3.09	21.20	2SA10220BLTR-ND	3,000	100.00/M
High Speed Switching	Mini 3P	15	50	90	150	2SA17380RLCT-ND	.62	4.67	35.04	2SA17380RLTR-ND	3,000	202.00/M
General Amp	Mini 3P	45	100	160	460	2SA207700LCT-ND	.35	2.75	19.39	2SA207700LTR-ND	3,000	79.00/M
General Amp	Mini 3P	45	100	160	460	2SB0709A0LCT-ND	.25	1.88	13.00	2SB0709A0LTR-ND	3,000	59.00/M
General Amp	Mini 3P	45	100	160	260	2SB0709AQLCT-ND	.30	2.25	16.25	2SB0709AQLTR-ND	3,000	59.00/M
General Amp	Mini 3P	45	100	210	340	2SB0709ARLCT-ND	.30	2.25	16.25	2SB0709ARLTR-ND	3,000	59.00/M
General Amp	Mini 3P	45	100	290	460	2SB0709ASLCT-ND	.30	2.25	16.25	2SB0709ASLTR-ND	3,000	59.00/M
General Amp	Mini 3P	25	500	85	340	2SB071000LCT-ND	.41	3.26	24.46	2SB071000LTR-ND	3,000	108.00/M
General Amp	Mini 3P	25	500	85	170	2SB07100QLCT-ND	.47	3.90	31.22	2SB07100QLTR-ND	3,000	125.00/M
General Amp	Mini 3P	25	500	120	240	2SB07100RLCT-ND	.47	3.90	31.22	2SB07100RLTR-ND	3,000	125.00/M
General Amp	Mini 3P	25	500	170	340	2SB07100SLCT-ND	.47	3.90	31.22	2SB07100SLTR-ND	3,000	125.00/M
General Amp	Mini 3P	50	500	85	340	2SB0710A0LCT-ND	.39	3.12	23.41	2SB0710A0LTR-ND	3,000	125.00/M
General Amp	Mini 3P	50	500	85	170	2SB0710AQLCT-ND	.47	3.90	31.22	2SB0710AQLTR-ND	3,000	125.00/M
General Amp	Mini 3P	50	500	120	240	2SB0710ARLCT-ND	.47	3.90	31.22	2SB0710ARLTR-ND	3,000	125.00/M
General Amp	Mini 3P	50	500	170	340	2SB0710ASLCT-ND	.47	3.90	31.22	2SB0710ASLTR-ND	3,000	125.00/M
Low Noise Amp	Mini 3P	185	50	130	220	2SB0792ARLCT-ND	.41	3.04	21.08	2SB0792ARLTR-ND	3,000	73.00/M
Low Noise Amp	Mini 3P	185	50	185	330	2SB0792ASLCT-ND	.41	3.04	21.08	2SB0792ASLTR-ND	3,000	73.00/M
DC-DC Converter	Mini 3P	15	2.5A	200	560	2SA201000LCT-ND	.50	3.76	28.22	2SA201000LTR-ND	3,000	163.00/M
DC-DC Converter	Mini 3P	20	1.5A	160	560	2SA204600LCT-ND	.48	3.63	27.22	2SA204600LTR-ND	3,000	157.00/M
High Freq. Amp	Mini 3P	20	30	110	220	2SA10220CLCT-ND	.41	3.34	22.89	2SA10220CLTR-ND	3,000	108.00/M
Low Noise Amp	Mini 3P	150	50	185	330	2SB07920SLCT-ND	.39	2.93	20.33	2SB07920SLTR-ND	3,000	78.00/M
Low-Volt. Amp	Mini 3P	10	0.5A	130	220	2SB09700RLCT-ND	.54	4.07	30.51	2SB09700RLTR-ND	3,000	176.00/M
Low-Volt. Amp	Mini 3P	10	0.5A	180	350	2SB09700SLCT-ND	.54	4.07	30.51	2SB09700SLTR-ND	3,000	176.00/M
RF Amp	S-Mini 3P	20	30	110	220	2SA15320CLCT-ND	.49	3.68	27.60	2SA15320CLTR-ND	3,000	159.00/M
General Amp	S-Mini 3P	45	100	160	460	2SB1218A0LCT-ND	.36	2.72	18.82	2SB1218A0LTR-ND	3,000	72.00/M
General Amp	S-Mini 3P	45	100	160	260	2SB1218AQLCT-ND	.36	2.72	18.82	2SB1218AQLTR-ND	3,000	72.00/M
General Amp	S-Mini 3P	45	100	210	340	2SB1218ARLCT-ND	.36	2.72	18.82	2SB1218ARLTR-ND	3,000	72.00/M
General Amp	S-Mini 3P	45	100	290	460	2SB1218ASLCT-ND	.36	2.72	18.82	2SB1218ASLTR-ND	3,000	72.00/M
General Amp	S-Mini 3P	50	2,000	120	240	2SB12190RLCT-ND	.43	3.45	25.86	2SB12190RLTR-ND	3,000	115.00/M
General Amp	S-Mini 3P	50	500	85	340	2SB1219ASLCT-ND	.43	3.45	25.86	2SB1219ASLTR-ND	3,000	115.00/M
AF Amp	S-Mini 3P	10	1.0A	130	350	2SB167900LCT-ND	.59	4.72	35.41	2SB167900LTR-ND	3,000	157.00/M
DC-DC Converter	S-Mini 3P	20	1A	160	560	2SA202800LCT-ND	.62	4.62	34.63	2SA202800LTR-ND	3,000	200.00/M
General Amp	SS-Mini 3P	12	500	270	680	2SA2161J0LCT-ND	.46	3.65	27.34	2SA2161J0LTR-ND	3,000	121.00/M
General Amp	SS-Mini-3P	50	100	180	390	2SB1462J0LCT-ND	.34	2.65	18.63	2SB1462J0LTR-ND	3,000	76.00/M
General Amp	SSS Mini 3P	50	100	180	390	2SA207800LCT-ND	.37	2.92	20.53	2SA207800LTR-ND	10,000	72.00/M
RF Amp	SSS Mini 3P	20	30	70	220	2SA216400LCT-ND	.52	3.90	29.26	2SA216400LTR-ND	10,000	163.00/M
RF Amp	1006 Leadless	20	30	70	220	2SA216300ACT-ND	.62	4.67	35.04	2SA216300ATR-ND	10,000	195.00/M
Low Freq. Output Amp	Mini-Pwr.	50	1,000	85	340	2SB0766ARLCT-ND	.52	3.87	29.02	2SB0766ARLTR-ND	1,000	172.00
Low Freq. Amp	Mini-Pwr.	120	500	90	155	2SB0789AQLCT-ND	.80	5.99	44.89	2SB0789AQLTR-ND	1,000	265.00
Low Freq. Amp	Mini-Pwr.	120	500	130	220	2SB0789ARLCT-ND	.80	5.99	44.89	2SB0789ARLTR-ND	1,000	265.00
Low Freq. Output Amp	Mini-Pwr.	20	1,000	130	280	2SB09560RLCT-ND	.51	3.85	28.88	2SB09560RLTR-ND	1,000	171.00
Low Freq. Amp	Mini-Pwr.	20	4,000	120	315	2SB10730RLCT-ND	.54	4.07	30.51	2SB10730RLTR-ND	1,000	180.00
Low Freq. Output Amp	Mini-Pwr.	50	2,000	120	340	2SB14400RLCT-ND	.72	5.42	40.63	2SB14400RLTR-ND	1,000	240.00
Low Freq. Output Amp	Mini-Pwr.	10	1,500	200	700	2SB158900LCT-ND	.52	3.87	29.02	2SB158900LTR-ND	1,000	172.00
AF Output Amp	Mini Pwr	80	1A	120	240	2SA18900RLCT-ND	.58	4.32	32.41	2SA18900RLTR-ND	1,000	192.00
Power Amp	Mini Pwr	40	1.5A	80	160	2SB15990QLCT-ND	.71	5.33	39.94	2SB15990QLTR-ND	1,000	236.00
Power Amp	Mini Pwr	40	1.5A	100	220	2SB15990RLCT-ND	.71	5.33	39.94	2SB15990RLTR-ND	1,000	236.00
AF Output Amp	Mini Pwr	80	.5A	90	155	2SB07670QLCT-ND	.53	3.94	29.55	2SB07670QLTR-ND	1,000	175.00
AF Output Amp	Mini Pwr	80	.5A	130	220	2SB07670RLCT-ND	.53	3.94	29.55	2SB07670RLTR-ND	1,000	175.00
Power Amp	Mini Pwr	60	2A	80	250	2SB169900LCT-ND	.59	4.42	33.17	2SB169900LTR-ND	1,000	196.00
						NPN Type						
Low VCE(sat)	Mini 3P	20	300	500	1,500	2SD1938FSLCT-ND	.38	2.98	21.01	2SD1938FSLTR-ND	3,000	86.00/M
Low VCE(sat)	Mini 3P	20	300	800	2,500	2SD1938FTLCT-ND	.38	2.98	21.01	2SD1938FTLTR-ND	3,000	86.00/M
RF Amp	Mini 3P	20	15	65	160	2SC24040CLCT-ND	.55	4.37	32.79	2SC24040CLTR-ND	3,000	145.00/M
High Freq. Amp	Mini 3P	20	50	25	250	2SC248000LCT-ND	.40	3.19	21.89	2SC248000LTR-ND	3,000	103.00/M
General Amp	Mini 3P	50	100	160	460	2SC584500LCT-ND	.35	2.75	19.39	2SC584500LTR-ND	3,000	79.00/M
General Amp	Mini 3P	50	100	160	460	2SD0601A0LCT-ND	.25	1.88	13.00	2SD0601A0LTR-ND	3,000	59.00/M
General Amp	Mini 3P	50	100	160	260	2SD0601AQLCT-ND	.30	2.25	16.25	2SD0601AQLTR-ND	3,000	59.00/M
General Amp	Mini 3P	50	100	210	340	2SD0601ARLCT-ND	.30	2.25	16.25	2SD0601ARLTR-ND	3,000	59.00/M
General Amp	Mini 3P	50	100	290	460	2SD0601ASLCT-ND	.30	2.25	16.25	2SD0601ASLTR-ND	3,000	59.00/M
General Amp	Mini 3P	50	500	85	340	2SD0602A0LCT-ND	.43	3.61	28.85	2SD0602A0LTR-ND	3,000	115.00/M
General Amp	Mini 3P	50	500	85	170	2SD0602AQLCT-ND	.43	3.61	28.85	2SD0602AQLTR-ND	3,000	115.00/M
General Amp	Mini 3P	50	500	120	240	2SD0602ARLCT-ND	.43	3.61	28.85	2SD0602ARLTR-ND	3,000	115.00/M
General Amp	Mini 3P	50	500	170	340	2SD0602ASLCT-ND	.43	3.61	28.85	2SD0602ASLTR-ND	3,000	115.00/M
Low Freq. Amp/High Gain	Mini 3P	100	20	400	800	2SD11490RLCT-ND	.36	2.71	18.78	2SD11490RLTR-ND	3,000	72.00/M
Low Freq. Amp/High Gain	Mini 3P	100	20	600	1,200	2SD11490SLCT-ND	.36	2.71	18.78	2SD11490SLTR-ND	3,000	72.00/M
Low Volt Amp	Mini 3P	20	500	200	800	2SD132800LCT-ND	.38	3.06	22.98	2SD132800LTR-ND	3,000	123.00/M
Low Volt Amp	Mini 3P	20	500	200	350	2SD13280RLCT-ND	.46	3.83	30.64	2SD13280RLTR-ND	3,000	123.00/M
Low Volt Amp	Mini 3P	20	500	300	500	2SD13280SLCT-ND	.46	3.83	30.64	2SD13280SLTR-ND	3,000	123.00/M
Low Volt Amp	Mini 3P	20	500	400	800	2SD13280TLCT-ND	.46	3.83	30.64	2SD13280TLTR-ND	3,000	123.00/M
DC-DC Converter	Mini 3P	15	2.5A	400	1000	2SC559200LCT-ND	.48	3.63	27.22	2SC559200LTR-ND	3,000	157.00/M
DC-DC Converter	Mini 3P	15	2A	200	800	2SC57250SLCT-ND	.58	4.66	34.97	2SC57250SLTR-ND	3,000	155.00/M
DC-DC Converter	Mini 3P	80	1.5	200	—	2SC581300LCT-ND	.51	3.80	28.46	2SC581300LTR-ND	3,000	164.00/M
High Speed Switch.	Mini 3P	40	100	90	200	2SC37570RLCT-ND	.49	3.64	27.29	2SC37570RLTR-ND	3,000	158.00/M
Low Noise Amp	Mini 3P	35	50	180	360	2SC24050RLCT-ND	.61	4.54	34.06	2SC24050RLTR-ND	3,000	197.00/M
Low Noise Amp	Mini 3P	55	50	260	520	2SC24060SLCT-ND	.55	4.12	30.87	2SC24060SLTR-ND	3,000	178.00/M
Low Freq./Noise Amp	Mini 3P	185	50	130	220	2SD0814ARLCT-ND	.39	2.93	20.33	2SD0814ARLTR-ND	3,000	78.00/M
Low Freq./Noise Amp	Mini 3P	185	50	185	330	2SD0814ASLCT-ND	.39	2.93	20.33	2SD0814ASLTR-ND	3,000	78.00/M
High Freq. Amp	S-Mini 3P	20	50	25	250	2SC39320TLCT-ND	.39	3.14	23.55	2SC39320TLTR-ND	3,000	126.00/M
RF Amp, Oscillator, Mixer	S-Mini 3P	10	50	110	220	2SC39350QLCT-ND	.69	5.14	38.58	2SC39350QLTR-ND	3,000	223.00/M
High Speed Switching	S-Mini 3P	40*	100	60	120	2SC39380QLCT-ND	.49	3.69	27.67	2SC39380QLTR-ND	3,000	160.00/M
High Speed Switching	S-Mini 3P	40*	100	90	200	2SC39380RLCT-ND	.49	3.69	27.67	2SC39380RLTR-ND	3,000	160.00/M
General Amp	S-Mini 3P	50	100	160	460	2SD1819A0LCT-ND	.37	2.96	20.33	2SD1819A0LTR-ND	3,000	96.00/M
General Amp	S-Mini 3P	50	100	160	260	2SD1819AQLCT-ND	.45	3.53	24.84	2SD1819AQLTR-ND	3,000	96.00/M
General Amp	S-Mini 3P	50	100	210	340	2SD1819ARLCT-ND	.45	3.53	24.84	2SD1819ARLTR-ND	3,000	96.00/M
General Amp	S-Mini 3P	50	100	290	460	2SD1819ASLCT-ND	.45	3.53	24.84	2SD1819ASLTR-ND	3,000	96.00/M
General Amp	S-Mini 3P	50	500	85	340	2SD1820A0LCT-ND	.43	3.41	25.58	2SD1820A0LTR-ND	3,000	113.00/M
General Amp	S-Mini 3P	50	500	120	240	2SD1820ARLCT-ND	.51	4.26	34.11	2SD1820ARLTR-ND	3,000	113.00/M
General Amp	S-Mini 3P	25	500	85	340	2SD1820CT-ND	.45	3.56	26.73	2SD1820TR-ND	3,000	113.43/M
Low Freq. Amp/High Gain	S-Mini 3P	100	20	400	800	2SD18240RLCT-ND	.37	2.78	19.26	2SD18240RLTR-ND	3,000	74.00/M
Low Freq. Amp/High Gain	S-Mini 3P	100	20	600	1,200	2SD18240SLCT-ND	.37	2.78	19.26	2SD18240SLTR-ND	3,000	74.00/M
AF Output Amp	S-Mini 3P	20	300	500	1,500	2SD19790SLCT-ND	.55	4.10	30.74	2SD19790SLTR-ND	3,000	178.00/M
Low VCE(sat)	S-Mini 3P	20	500	200	800	2SD262300LCT-ND	.48	3.98	31.82	2SD262300LTR-ND	3,000	127.00/M

* **VCBO**

(Continued)

Application	Package	VCEO (V)	IC (mA)	hFE		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel	
				Min.	Max.		1	10	100		Size	Pricing
						***NPN Type** (Cont.)*						
RF Amp/Oscillator/Mixer	S-Mini 3P	20	50	25	250	2SC39320SLCT-ND	.42	3.50	28.04	2SC39320SLTR-ND	3,000	112.00/M
RF Amp	S-Mini 3P	20	30	110	220	2SC39300CLCT-ND	.53	3.97	29.81	2SC39300CLTR-ND	3,000	172.00/M
RF Amp	S-Mini 3P	20	15	65	160	2SC39310CLCT-ND	.52	3.93	29.45	2SC39310CLTR-ND	3,000	170.00/M
RF Amp	S-Mini 3P	10	50	75	130	2SC39350PLCT-ND	.74	5.56	41.67	2SC39350PLTR-ND	3,000	241.00/M
High Freq. Amp	S-Mini 3P	8	50	100	350	2SC563200LCT-ND	.42	3.33	25.01	2SC563200LTR-ND	3,000	111.00/M
RF Amp/Oscillator/Mixer	SS-Mini 3P	10	50	75	400	2SC4809J0LCT-ND	.51	4.05	30.37	2SC4809J0LTR-ND	3,000	135.00/M
High Freq. Amp	SS-Mini 3P	20	15	40	260	2SC4627J0LCT-ND	.42	3.34	25.02	2SC4627J0LTR-ND	3,000	111.00/M
General Amp	SS-Mini 3P	50	100	160	460	2SD2216J0LCT-ND	.33	2.57	18.07	2SD2216J0LTR-ND	3,000	74.00/M
General Amp	SSS-Mini 3P	50	100	180	390	2SC584600LCT-ND	.37	2.92	20.53	2SC584600LTR-ND	10,000	72.00/M
AF Amp	SSS-Mini 3P	100	20	400	1,200	2SD262100LCT-ND	.43	3.55	28.36	2SD262100LTR-ND	10,000	99.00/M
UHF Low Noise Amp	Mini-Pwr.	10	80	80	250	2SC501900LCT-ND	.72	5.42	40.63	—	—	—
Low Freq. Output Amp	Mini-Pwr.	50	1,000	85	340	2SD0874A0LCT-ND	.59	4.75	35.60	2SD0874A0LTR-ND	1,000	166.00
Low Freq. Output Amp	Mini-Pwr.	50	3,000	120	340	2SD21850RLCT-ND	.67	5.00	37.51	2SD21850RLTR-ND	1,000	222.00
Low Freq. Output Amp	Mini-Pwr.	20	500	200	800	2SD22100RLCT-ND	.56	4.51	33.86	2SD22100RLTR-ND	1,000	158.00
Low Freq. Output Amp	Mini-Pwr.	10	1,500	200	700	2SD244100LCT-ND	.52	3.87	29.02	—	—	—
AF Output Amp	Mini Pwr	80	.5A	130	220	2SD08750RLCT-ND	.52	3.92	29.39	2SD08750RLTR-ND	1,000	174.00
AF Output Amp	Mini Pwr	80	.5A	185	330	2SD08750SLCT-ND	.52	3.92	29.39	2SD08750SLTR-ND	1,000	174.00
AF Amp	Mini Pwr	400	.1A	30	—	2SD241300LCT-ND	.72	5.37	40.25	2SD241300LTR-ND	1,000	238.00
AF Power Amp	Mini Pwr	40	1.5A	80	160	2SD24570QLCT-ND	.94	7.03	52.76	2SD24570QLTR-ND	1,000	312.00
AF Output Amp	Mini Pwr	150	1A	120	240	2SD24590RLCT-ND	.92	6.93	51.97	2SD24590RLTR-ND	1,000	307.00
AF Output Amp	Mini Pwr	150	1A	170	340	2SD24590SLCT-ND	.92	6.93	51.97	2SD24590SLTR-ND	1,000	307.00
AF Amp	Mini Pwr	20	1A	130	210	2SD12800RLCT-ND	.77	5.77	43.29	2SD12800RLTR-ND	1,000	256.00
AF Amp	Mini Pwr	20	1A	180	280	2SD12800SLCT-ND	.77	5.77	43.29	2SD12800SLTR-ND	1,000	256.00

* **VCBO**

Schottky Barrier Diodes – Silicon Epitaxial Planar Type

Dim. in mm

Mini Type (2-pin)

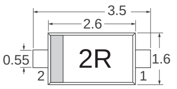

Mini Type (3-pin)
JEDEC: TO-236
EIAJ: SC-59

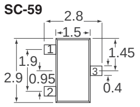

Mini Type (4-pin)

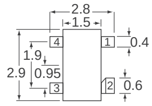

Mini Type (6-pin)

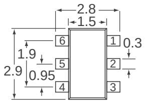

S-Mini Type (2-pin)

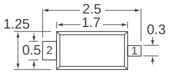

S-Mini Type (3-pin)
EIAJ: SC-70

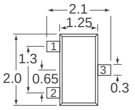

S-Mini Type (4-pin) Mold

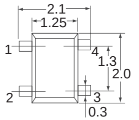

S-Mini Type (6-pin) Mold

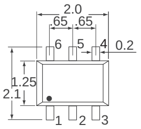

Mini-Power Type (2-pin)

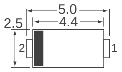

SS-Mini Type (2-pin)

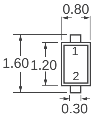

SS-Mini Type (3-pin)

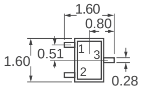

SS-Mini Type (4-pin) Mold

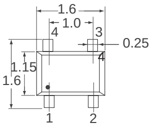

SSS-Mini Type (2-pin)

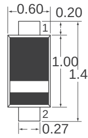

SSS-Mini Type (3-pin)

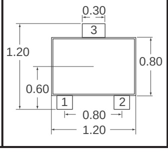

DO-34

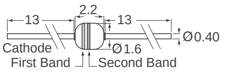

Fig. 1

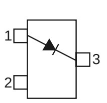

Fig. 2

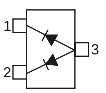

Fig. 3

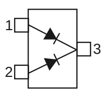

Fig. 4

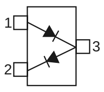

Fig. 5

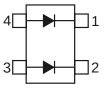

Fig. 6

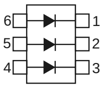

Fig. 7

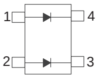

Fig. 8

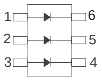

Fig. 9

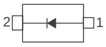

Fig. 10

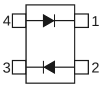

Fig.	Description	VR (V)	IF (mA)	VF		Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
				(V)	@mA		1	10	100		Size	Pricing
						Mini Type 2-Pin						
9	Single	20	1000	0.45	1	MA2YD1500LCT-ND	.55	.42	.31	MA2YD1500LTR-ND	3,000	178.00/M
		100	300	0.58	300	MA2YD1700LCT-ND	.53	.40	.30	MA2YD1700LTR-ND	3,000	173.00/M
		15	1000	0.40	1000	MA2YD2100LCT-ND	.50	.38	.29	MA2YD2100LTR-ND	3,000	163.00/M
		25	1000	0.42	500	MA2YD2300LCT-ND	.53	.40	.30	MA2YD2300LTR-ND	3,000	173.00/M
		60	800	0.51	800	MA2YD2600LCT-ND	.53	.40	.30	MA2YD2600LTR-ND	3,000	173.00/M
		30	500	.40	10	MA2YD3300LCT-ND	.51	.39	.29	MA2YD3300LTR-ND	3,000	165.00/M
		30	1500	0.34	500	MA22D2800LCT-ND	.62	.47	.35	MA22D2800LTR-ND	3,000	201.00/M
		20	1000	.40	1	MA22D1500LCT-ND	.57	.43	.33	MA22D1500LTR-ND	3,000	186.00/M
		25	1000	.41	500	MA22D2300LCT-ND	.57	.43	.33	MA22D2300LTR-ND	3,000	186.00/M
		40	1570•	.48	500	MA22D3900LCT-ND	.57	.43	.33	MA22D3900LTR-ND	3,000	186.00/M
						Mini Type 3-Pin						
1	Single	30	700	0.55	700	MA3X70100LCT-ND	.46	.37	.28	MA3X70100LTR-ND	3,000	123.00/M
		15	30	0.40	1	MA3X70400LCT-ND	.43	.35	.26	MA3X70400LTR-ND	3,000	115.00/M
		30	30	0.40	1	MA3X704A0LCT-ND	.43	.35	.26	MA3X704A0LTR-ND	3,000	115.00/M
		30	30	0.30	1	MA3X71700LCT-ND	.51	.41	.31	MA3X71700LTR-ND	3,000	136.00/M
		40	500	0.55	500	MA3X72000LCT-ND	.57	.46	.35	MA3X72000LTR-ND	3,000	153.00/M
		30	200	0.55	200	MA3X72100LCT-ND	.46	.37	.28	MA3X72100LTR-ND	3,000	121.00/M
		50	200	0.55	200	MA3X72700LCT-ND	.57	.43	.33	MA3X72700LTR-ND	3,000	186.00/M
		20	500	0.50	500	MA3X74800LCT-ND	.59	.47	.36	MA3X74800LTR-ND	3,000	156.00/M
		30	100	0.55	100	MA3X78600LCT-ND	.49	.40	.30	MA3X78600LTR-ND	3,000	130.00/M
		50	100	0.55	100	MA3X78700LCT-ND	.44	.36	.27	MA3X78700LTR-ND	3,000	118.00/M
		20	1000	0.45	1	MA3XD1100LCT-ND	.59	.48	.36	MA3XD1100LTR-ND	3,000	157.00/M
		20	1000	0.45	1	MA3XD1500LCT-ND	.52	.39	.30	MA3XD1500LTR-ND	3,000	169.00/M
		100	300	0.58	300	MA3XD1700LCT-ND	.53	.40	.31	—	—	—
		15	1000	0.40	500	MA3XD2100LCT-ND	.50	.38	.29	MA3XD2100LTR-ND	3,000	163.00/M
		60	200	0.65	200	MA3X78800LCT-ND	.50	.38	.29	MA3X78800LTR-ND	3,000	164.00/M
2	Dual Com Anode	30	30	0.40	1	MA3X704D0LCT-ND	.69	.52	.39	MA3X704D0LTR-ND	3,000	225.00/M
			110/150	0.30	1	MA3X717D0LCT-ND	.89	.67	.51	MA3X717D0LTR-ND	3,000	291.00/M
			130/200	0.55	130/200	MA3X721D0LCT-ND	.83	.63	.47	MA3X721D0LTR-ND	3,000	270.00/M
			200/300	0.55	200/300	MA3X786D0LCT-ND	.64	.48	.37	MA3X786D0LTR-ND	3,000	208.00/M

• mArms † Tape and Box

(Continued)

Schottky Barrier Diodes – Silicon Epitaxial Planar Type *(Cont.)*

Fig.	Description	VR	IF	VF		Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel	
		(V)	(mA)	(V)	@mA	Part No.	1	10	100	Part No.	Size	Pricing
3	Dual Com Cathode	30	30	0.40	1	MA3X704E0LCT-ND	.69	.52	.39	MA3X704E0LTR-ND	3,000	225.00/M
			110/150	0.30	1	MA3X717E0LCT-ND	.89	.67	.51	MA3X717E0LTR-ND	3,000	291.00/M
3	Dual	30	130/200	0.55	130/200	MA3X721E0LCT-ND	.83	.63	.47	MA3X721E0LTR-ND	3,000	270.00/M
4	Dual Series	30	200/300	0.55	200/300	MA3X786E0LCT-ND	.64	.48	.37	MA3X786E0LTR-ND	3,000	208.00/M
			20/30	0.30	1	MA3X71500LCT-ND	.74	.56	.42	MA3X71500LTR-ND	3,000	242.00/M
			20/30	0.40	1	MA3X71600LCT-ND	.60	.46	.34	MA3X71600LTR-ND	3,000	196.00/M
			220/300	0.55	220/300	MA3X74000LCT-ND	.93	.70	.53	MA3X74000LTR-ND	3,000	301.00/M
Mini Type 4-Pin												
5	Dual	50	150/200	0.55	150/200	MA4X74600LCT-ND	.46	.35	.26	MA4X74600LTR-ND	3,000	151.00/M
		30	20/30	0.40	1	MA4X71300LCT-ND	.61	.46	.35	MA4X71300LTR-ND	3,000	197.00/M
		30	150	0.55	150	MA4X72400LCT-ND	.68	.52	.39	MA4X72400LTR-ND	3,000	221.00/M
		50	70/100	0.55	70/100	MA4X79600LCT-ND	.63	.48	.36	MA4X79600LTR-ND	3,000	205.00/M
9	Dual	30	150/200	0.55	150/200	MA4X72600LCT-ND	.92	.70	.52	MA4X72600LTR-ND	3,000	300.00/M
10	Dual	30	20/30	0.40	1	MA4X71400LCT-ND	.74	.56	.42	MA4X71400LTR-ND	3,000	239.00/M
Mini Type 6-Pin												
6	Triple	30	30	0.40	1	MA6X71800LCT-ND	.87	.73	.58	MA6X71800LTR-ND	3,000	376.00/M
S-Mini Type 2-Pin												
9	Single	20	200	0.47	1	MA2SD1900LCT-ND	.48	.39	.29	MA2SD1900LTR-ND	3,000	128.00/M
		40	500	0.55	500	MA2Z72000LCT-ND	.48	.39	.29	MA2Z72000LTR-ND	3,000	128.00/M
		20	300	0.40	300	MA2Z74800LCT-ND	.41	.33	.25	MA2Z74800LTR-ND	3,000	108.00/M
		20	500	0.40	10	MA2ZD0200LCT-ND	.54	.44	.33	MA2ZD0200LTR-ND	3,000	143.00/M
		20	100	0.27	5	MA2ZD1400LCT-ND	.44	.37	.30	MA2ZD1400LTR-ND	3,000	118.00/M
		30	1000	0.34	500	MA21D3800LCT-ND	.60	.46	.34	MA21D3800LTR-ND	3,000	195.00/M
		20	500	0.42	500	MA2ZD1800LCT-ND	.41	.33	.25	MA2ZD1800LTR-ND	3,000	108.00/M
		50	200	0.36	30	MA2J72700LCT-ND	.82	.62	.47	MA2J72700LTR-ND	3,000	266.00/M
		30	30	0.40	1	MA2J72800LCT-ND	.47	.40	.32	MA2J72800LTR-ND	3,000	126.00/M
		30	200	0.55	200	MA2J72900LCT-ND	.56	.45	.34	MA2J72900LTR-ND	3,000	149.00/M
		30	30	0.30	1	MA2J73200LCT-ND	.44	.35	.27	MA2J73200LTR-ND	3,000	116.00/M
		30	100	0.55	100	MA2Z78400LCT-ND	.46	.39	.31	MA2Z78400LTR-ND	3,000	124.00/M
		50	100	0.55	100	MA2Z78500LCT-ND	.45	.36	.27	MA2Z78500LTR-ND	3,000	119.00/M
S-Mini Type 3-Pin												
1	Single	40	500	0.55	500	MA3J70000LCT-ND	.54	.44	.33	MA3J70000LTR-ND	3,000	145.00/M
		20	500	0.55	500	MA3J70200LCT-ND	.54	.44	.33	MA3J70200LTR-ND	3,000	144.00/M
		30	30	0.40	1	MA3J74100LCT-ND	.48	.38	.29	MA3J74100LTR-ND	3,000	126.00/M
		30	200	0.55	200	MA3J74400LCT-ND	.56	.42	.32	MA3J74400LTR-ND	3,000	182.00/M
		30	30	0.30	1	MA3J74500LCT-ND	.65	.49	.37	MA3J74500LTR-ND	3,000	212.00/M
		20	700	0.45	700	MA3ZD1200LCT-ND	.58	.46	.35	MA3ZD1200LTR-ND	3,000	153.00/M
		30	100	0.55	100	MA3Z79200LCT-ND	.41	.33	.25	MA3Z79200LTR-ND	3,000	109.00/M
2	Dual Com Anode	30	20/30	0.40	1	MA3J741D0LCT-ND	.60	.46	.34	MA3J741D0LTR-ND	3,000	196.00/M
			20/30	0.30	1	MA3J745D0LCT-ND	.62	.47	.35	MA3J745D0LTR-ND	3,000	200.00/M
			70/100	0.55	70/100	MA3Z792D0LCT-ND	.50	.41	.31	MA3Z792D0LTR-ND	3,000	134.00/M
3	Dual Com Cathode	30	20/30	0.40	1	MA3J741E0LCT-ND	.60	.46	.34	MA3J741E0LTR-ND	3,000	196.00/M
			20/30	0.30	1	MA3J745E0LCT-ND	.62	.47	.35	MA3J745E0LTR-ND	3,000	200.00/M
			70/100	0.55	70/100	MA3Z792E0LCT-ND	.50	.41	.31	MA3Z792E0LTR-ND	3,000	134.00/M
4	Dual Series	30	20/30	0.40	1	MA3J74200LCT-ND	.63	.48	.36	MA3J74200LTR-ND	3,000	205.00/M
			70/100	0.55	70/100	MA3Z79300LCT-ND	.61	.46	.35	MA3Z79300LTR-ND	3,000	198.00/M
S-Mini Type 4-Pin												
7	Dual	30	20/30	0.40	1	MA4Z71300LCT-ND	.58	.46	.35	MA4Z71300LTR-ND	3,000	153.00/M
		20	75/100	0.27	5	MA4ZD1400LCT-ND	.52	.42	.31	MA4ZD1400LTR-ND	3,000	137.00/M
		45	75/100	0.60	75/100	MA4ZD0300LCT-ND	.50	.38	.29	MA4ZD0300LTR-ND	3,000	163.00/M
S-Mini Type 6-Pin												
8	Triple	30	30	0.40	1	MA6Z71800LCT-ND	.68	.51	.39	MA6Z71800LTR-ND	3,000	221.00/M
Mini-Power Type 2-Pin												
9	Single	30	1500	0.37	1000	MA2Q70500LCT-ND	.83	.63	.47	MA2Q70500LTR-ND	1,500	277.00/M
		30	1000	0.50	1000	MA2Q73500LCT-ND	.84	.63	.47	MA2Q73500LTR-ND	1,500	278.00/M
		40	1000	0.55	1000	MA2Q73600LCT-ND	.70	.53	.40	MA2Q73600LTR-ND	1,500	231.00/M
		40	1500	0.55	2000	MA2Q73800LCT-ND	.72	.55	.41	MA2Q73800LTR-ND	1,500	240.00/M
		90	700	0.80	700	MA2Q73900LCT-ND	.87	.66	.49	MA2Q73900LTR-ND	1,500	289.00/M
SS-Mini Type 2-Pin												
9	Single	30	30	0.40	1	MA2S72800LCT-ND	.46	.39	.31	MA2S72800LTR-ND	3,000	123.00/M
		30	100	0.55	100	MA2S78400LCT-ND	.51	.42	.31	MA2S78400LTR-ND	3,000	137.00/M
		20	200	0.47	1	MA2SD1000LCT-ND	.51	.42	.31	MA2SD1000LTR-ND	3,000	137.00/M
		20	200	0.58	200	MA2SD2400LCT-ND	.48	.39	.29	MA2SD2400LTR-ND	3,000	128.00/M
		30	100	0.25	10	MA2SD2900LCT-ND	.48	.39	.29	MA2SD2900LTR-ND	3,000	127.00/M
		30	100	0.38	10	MA2SD3000LCT-ND	.48	.39	.29	MA2SD3000LTR-ND	3,000	127.00/M
		30	200	0.38	200	MA2SD3100LCT-ND	.51	.41	.31	MA2SD3100LTR-ND	3,000	136.00/M
		30	200	0.49	200	MA2SD3200LCT-ND	.51	.41	.31	MA2SD3200LTR-ND	3,000	136.00/M
		20	35	0.41	1	MA2SE0100LCT-ND	.55	.45	.34	MA2SE0100LTR-ND	3,000	147.00/M
SS-Mini Type 3-Pin												
1	Single	30	30	0.40	1	MA3S78100LCT-ND	.51	.42	.31	MA3S78100LTR-ND	3,000	137.00/M
			30	0.30	1	MA3S79500LCT-ND	.51	.42	.31	MA3S79500LTR-ND	3,000	137.00/M
2	Dual Com Anode	30	30	0.40	1	MA3S781D0LCT-ND	.62	.47	.35	MA3S781D0LTR-ND	3,000	200.00/M
			30	0.30	1	MA3S795D0LCT-ND	.62	.47	.35	MA3S795D0LTR-ND	3,000	200.00/M
3	Dual Com Cathode	30	30	0.40	1	MA3S781E0LCT-ND	.62	.47	.35	MA3S781E0LTR-ND	3,000	200.00/M
			20	0.30	1	MA3S795E0LCT-ND	.62	.47	.35	MA3S795E0LTR-ND	3,000	200.00/M
4	Dual Series	20	25/35	0.40	1	MA3SE0200LCT-ND	.71	.54	.40	MA3SE0200LTR-ND	3,000	230.00/M
SS-Mini Type 4-Pin												
7	Dual	30	20/30	0.35	1	MA4SD0100LCT-ND	.53	.43	.32	MA4SD0100LTR-ND	3,000	141.00/M
		20	150	0.27	5	MA4SD1000LCT-ND	.87	.66	.49	MA4SD1000LTR-ND	3,000	282.00/M
SSS-Mini Type 2-Pin												
9	Single	30	30	0.4	1	MA2772800LCT-ND	.45	.36	.27	MA2772800LTR-ND	10,000	113.00/M
		100	100	0.55	100	MA2778400LCT-ND	.53	.43	.32	MA2778400LTR-ND	10,000	133.00/M
		20	100	0.38	10	MA27D2700LCT-ND	.59	.48	.36	MA27D2700LTR-ND	10,000	148.00/M
		30	100	0.25	10	MA27D2900LCT-ND	.55	.44	.33	MA27D2900LTR-ND	10,000	137.00/M
		30	100	0.38	10	MA27D3000LCT-ND	.55	.44	.33	MA27D3000LTR-ND	10,000	137.00/M
SSS-Mini Type 3-Pin												
3	Dual Com Cathode	30	20	0.3	1	MAS3795E0LCT-ND	.65	.49	.37	MAS3795E0LTR-ND	10,000	203.00/M
DO-34												
9	Single	30	30	0.4	1	MA2C700A0FCT-ND	.44	.36	.27	MA2C700A0FTB-ND†	2,000	123.00/M

† Tape and Box

Pin Diodes – Silicon Epitaxial Planar Type

Fig.	Descrip- tion	VR (V)	IF (mA)	VF (V)	VF @mA	Ct (pF)	rf (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
								S-Mini Type 2-Pin						
1	Single	60	100	1.0	10	0.5	2.0	MA2JP0200LCT-ND	.58	.46	.35	MA2JP0200LTR-ND	3,000	153.00/M
								SS-Mini Type 2-Pin						
2	Single	60	100	1.0	10	0.8	1.0	MA2SP0100LCT-ND	.59	.48	.36	MA2SP0100LTR-ND	3,000	157.00/M
						0.5	2.0	MA2SP0200LCT-ND	.59	.48	.36	MA2SP0200LTR-ND	3,000	157.00/M
								SSS-Mini Type 2-Pin						
3	Single	60	100	1.0	10	0.8	1.0	MA27P0100LCT-ND	.53	.40	.30	MA27P0100LTR-ND	10,000	166.00/M
						0.5	2.0	MA27P0200LCT-ND	.53	.40	.30	MA27P0200LTR-ND	10,000	166.00/M
						.035	1.5	MA27P0700LCT-ND	.55	.45	.34	MA27P0700LTR-ND	10,000	138.00/M

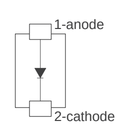

Fig. 1
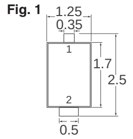

Fig. 2
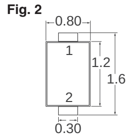

Fig. 3
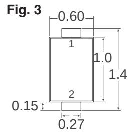

GaAs MMIC SP3T Switches

Pin Connection		
1 Gnd	5 GPS-Rx	9 Vctrl2
2 Ant	6 Gnd	10 Gnd
3 Gnd	7 Gnd	11 PCS-Tx/Rx
4 Vctrl3	8 CDMA-Tx/Rx	12 Vctrl1

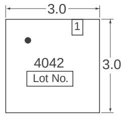

CDMA 1 (MHz)	PCS 2 (MHz)	GPS 3 (MHz)	PD mW	Vctrl(H)- Vctrl(L) (V)	Pin (CDMA, PCS) (dBm)	Pin (GPS) (dBm)	Topr (C°)	Tstg (C°)	Digi-Key Part No.	Cut Tape Price Each 1	10	100
824 - 894	1850 - 1990	1574 - 1577	150	+5	35	20	-30 - +90	-40 - +120	GN04042N0LCT-ND	3.10	2.48	1.93

Switching Diodes – Silicon Epitaxial Planar Type

Dim. in mm

Mini Type (3-pin)
JEDEC: TO-236
EIAJ: SC-59

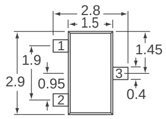

Mini Type (4-pin)

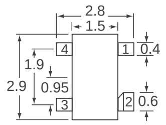

Mini Type (6-pin)

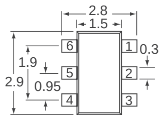

S-Mini Type (2-pin)

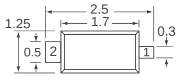

S-Mini Type (3-pin)
EIAJ: SC-70

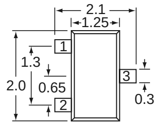

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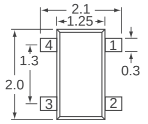

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(2-pin)

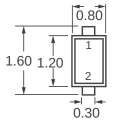

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(3-pin)

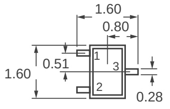

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(2-pin)

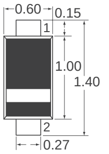

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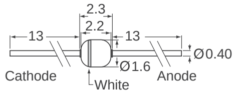

Fig. 1
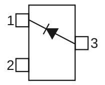

Fig. 2
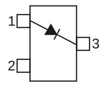

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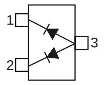

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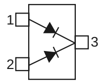

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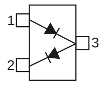

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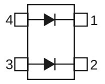

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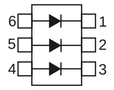

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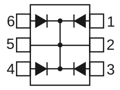

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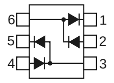

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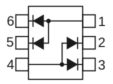

Fig. 11
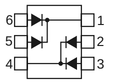

Fig. 12
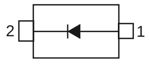

Fig.	Package	Description	VR (v)	IF (mA)	IR (uA)	trr (ns)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	Mini 3P	Single	80	100	0.1	3	MA3X152A0LCT-ND	.39	.30	.21	MA3X152A0LTR-ND	3,000	79.00/M
2	Mini 3P	Single	80	100	0.1	3	MA3X152K0LCT-ND	.39	.30	.21	MA3X152K0LTR-ND	3,000	79.00/M
3	Mini 3P	Dual Com Anode	80	100	0.1	10	MA3X152D0LCT-ND	.37	.29	.21	MA3X152D0LTR-ND	3,000	83.00/M
4	Mini 3P	Dual Com Cathode	80	100	0.1	3	MA3X152E0LCT-ND	.37	.29	.21	MA3X152E0LTR-ND	3,000	83.00/M
5	Mini 3P	Dual Series	80	65	0.1	150/9	MA3X153A0LCT-ND	.32	.26	.18	MA3X153A0LTR-ND	3,000	84.00/M
5	Mini 3P	Dual Series	80	100	0.1	3	MA3X157A0LCT-ND	.40	.31	.22	MA3X157A0LTR-ND	3,000	89.00/M
2	Mini 3P	Single	200	100	1	–	MA3X15800LCT-ND	.52	.42	.32	MA3X15800LTR-ND	3,000	139.00/M
5	Mini 3P	Dual Series	40	75	0.01	100	MA3X19800LCT-ND	.39	.32	.22	MA3X19800LTR-ND	3,000	103.00/M
2	Mini 3P	Single	200	100	1	60	MA3X19900LCT-ND	.49	.37	.28	MA3X19900LTR-ND	3,000	158.00/M
6	Mini 4P	Dual	80	75	0.1	3	MA4X159A0LCT-ND	.47	.38	.29	MA4X159A0LTR-ND	3,000	125.00/M
6	Mini 4P	Dual	200	100	1	–	MA4X17400LCT-ND	.66	.50	.38	MA4X17400LTR-ND	3,000	216.00/M
7	Mini 6P	Triple	80	100	0.1	3	MA6X12100LCT-ND	.50	.40	.31	MA6X12100LTR-ND	3,000	133.00/M
8	Mini 6P	Quad	80	100	0.1	3	MA6X12400LCT-ND	.69	.53	.40	MA6X12400LTR-ND	3,000	226.00/M
9	Mini 6P	Quad	40	100	0.1	150/9	MA6X12500LCT-ND	.72	.55	.41	MA6X12500LTR-ND	3,000	235.00/M
10	Mini 6P	Quad	80	100	0.1	10	MA6X12700LCT-ND	.45	.37	.28	MA6X12700LTR-ND	3,000	121.00/M
11	Mini 6P	Quad	80	100	0.1	3	MA6X12800LCT-ND	.44	.36	.27	MA6X12800LTR-ND	3,000	118.00/M
12	S-Mini 2P	Single	80	100	0.1	3	MA2J11100LCT-ND	.34	.26	.18	MA2J11100LTR-ND	3,000	69.00/M
12	S-Mini 2P	Single	40	200	0.5	10	MA2J11200LCT-ND	.43	.35	.26	MA2J11200LTR-ND	3,000	115.00/M
12	S-Mini 2P	Single	80	200	0.5	10	MA2J11300LCT-ND	.41	.33	.23	MA2J11300LTR-ND	3,000	107.00/M
12	S-Mini 2P	Single	150	200	0.2	–	MA2J11400LCT-ND	.61	.46	.35	MA2J11400LTR-ND	3,000	198.00/M
12	S-Mini 2P	Single	200	200	0.2	–	MA2J11500LCT-ND	.39	.30	.22	MA2J11500LTR-ND	3,000	130.00/M
12	S-Mini 2P	Single	40	100	0.01	100	MA2J11600LCT-ND	.45	.36	.27	MA2J11600LTR-ND	3,000	119.00/M
12	S-Mini 2P	Single	200	100	0.1	60	MA2Z00100LCT-ND	.49	.37	.28	MA2Z00100LTR-ND	3,000	160.00/M

† Tape and Box

(Continued)

Switching Diodes – Silicon Epitaxial Planar Type *(Cont.)*

Fig.	Package	Description	V_R (v)	I_F (mA)	I_R (uA)	trr (ns)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	S-Mini 3P	Single	80	100	0.1	3	MA3J142A0LCT-ND	.33	.27	.19	MA3J142A0LTR-ND	3,000	75.00/M
2	S-Mini 3P	Single	80	100	0.1	3	MA3J142K0LCT-ND	.33	.27	.19	MA3J142K0LTR-ND	3,000	75.00/M
3	S-Mini 3P	Dual Com Anode	80	100	0.1	10	MA3J142D0LCT-ND	.36	.29	.20	MA3J142D0LTR-ND	3,000	99.00/M
4	S-Mini 3P	Dual Com Cathode	80	100	0.1	3	MA3J142E0LCT-ND	.36	.29	.20	MA3J142E0LTR-ND	3,000	99.00/M
5	S-Mini 3P	Dual Series	40	65	0.1	150/9	MA3J14300LCT-ND	.38	.32	.22	MA3J14300LTR-ND	3,000	101.00/M
5	S-Mini 3P	Dual Series	80	65	0.1	150/9	MA3J143A0LCT-ND	.38	.32	.22	MA3J143A0LTR-ND	3,000	101.00/M
5	S-Mini 3P	Dual Series	80	65	0.1	3	MA3J14700LCT-ND	.44	.35	.27	MA3J14700LTR-ND	3,000	116.00/M
6	S-Mini 4P	Dual	80	75	0.1	3	MA4Z15900LCT-ND	.44	.36	.27	MA4Z15900LTR-ND	3,000	118.00/M
12	SS-Mini 2P	Single	80	100	0.1	3	MA2S11100LCT-ND	.36	.29	.20	MA2S11100LTR-ND	3,000	81.00/M
1	SS-Mini 3P	Single	80	100	0.1	3	MA3S132A0LCT-ND	.36	.28	.20	MA3S132A0LTR-ND	3,000	81.00/M
2	SS-Mini 3P	Single	80	100	0.1	3	MA3S132K0LCT-ND	.36	.28	.20	MA3S132K0LTR-ND	3,000	81.00/M
3	SS-Mini 3P	Dual Com Anode	80	100	0.1	10	MA3S132D0LCT-ND	.37	.31	.21	MA3S132D0LTR-ND	3,000	98.00/M
4	SS-Mini 3P	Dual Com Cathode	80	100	0.1	3	MA3S132E0LCT-ND	.37	.31	.21	MA3S132E0LTR-ND	3,000	98.00/M
5	SS-Mini 3P	Dual Series	80	65	0.1	150/9	MA3S13300LCT-ND	.42	.34	.26	MA3S13300LTR-ND	3,000	111.00/M
5	SS-Mini 3P	Dual Series	80	65	0.1	3	MA3S13700LCT-ND	.42	.34	.26	MA3S13700LTR-ND	3,000	111.00/M
12	SSS-Mini 2P	Single	80	100	0.1	3	MA2711100LCT-ND	.44	.37	.30	MA2711100LTR-ND	10,000	103.00/M
4	SSS-Mini 3P	Dual Com Cathode	80	100	0.1	3	MAS3132E0LCT-ND	.51	.41	.31	MAS3132E0LTR-ND	10,000	128.00/M
12	DO-34	Single	35	100	0.1	10	MA2C16500ECT-ND	.27	.21	.15	MA2C16500ETB-ND†	5,000	49.00/M
12	DO-34	Single	35	100	0.1	—	MA2C85600ECT-ND	.49	.37	.28	MA2C85600ETB-ND†	5,000	157.00/M

† Tape and Box

Silicon Planar Type Trigger Device

Features:

- Satisfactory symmetry of breakover voltage V_{B0}
- Large output voltage V_0 and small breakover current I_{B0}

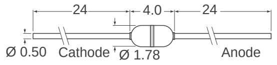

Package	V_{B0} (V) min.	V_0 (V) type	I_{B0} (μA) max.	T.C. (V_{B0}) %/°C	V_{B0} (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Size	Pricing
DO-35	28	7.0	50	0.1	3.5	MA2B00100FCT-ND	.69	.52	.39	MA2B00100FTB-ND	2,000	229.00/M

Zener Diodes Silicon Planar Type

Zener Voltage V_Z Min.	Nom.	Max.	I_Z (mA)	R_Z (max.) (Ohms)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
Mini Type Package 3 Pin / MA3000 Series - 200mW											
2.28	2.40	2.60	5	100	MAZ302400LCT-ND	.37	.30	.21	MAZ302400LTR-ND	3,000	97.00/M
2.50	2.70	2.90	5	110	MAZ30270HLCT-ND	.37	.30	.21	MAZ30270HLTR-ND	3,000	97.00/M
2.80	3.00	3.20	5	120	MAZ30300HLCT-ND	.37	.30	.21	MAZ30300HLTR-ND	3,000	97.00/M
3.10	3.30	3.50	5	130	MAZ30330HLCT-ND	.37	.30	.21	MAZ30330HLTR-ND	3,000	97.00/M
3.40	3.60	3.80	5	130	MAZ30360HLCT-ND	.37	.30	.21	MAZ30360HLTR-ND	3,000	97.00/M
3.70	3.90	4.10	5	130	MAZ30390HLCT-ND	.37	.30	.21	MAZ30390HLTR-ND	3,000	97.00/M
4.00	4.30	4.60	5	130	MAZ30430MLCT-ND	.37	.30	.21	MAZ30430MLTR-ND	3,000	97.00/M
4.40	4.70	5.00	5	80	MAZ30470MLCT-ND	.37	.30	.21	MAZ30470MLTR-ND	3,000	97.00/M
4.80	5.10	5.40	5	60	MAZ30510MLCT-ND	.37	.30	.21	MAZ30510MLTR-ND	3,000	97.00/M
5.30	5.60	6.00	5	40	MAZ30560MLCT-ND	.37	.30	.21	MAZ30560MLTR-ND	3,000	97.00/M
5.80	6.20	6.60	5	20	MAZ30620MLCT-ND	.37	.30	.21	MAZ30620MLTR-ND	3,000	97.00/M
6.40	6.80	7.20	5	15	MAZ30680MLCT-ND	.37	.30	.21	MAZ30680MLTR-ND	3,000	97.00/M
7.00	7.50	7.90	5	15	MAZ30750MLCT-ND	.37	.30	.21	MAZ30750MLTR-ND	3,000	97.00/M
7.70	8.20	8.70	5	15	MAZ30820MLCT-ND	.37	.30	.21	MAZ30820MLTR-ND	3,000	97.00/M
8.50	9.10	9.60	5	15	MAZ30910MLCT-ND	.37	.30	.21	MAZ30910MLTR-ND	3,000	97.00/M
9.40	10.00	10.60	5	20	MAZ31000MLCT-ND	.37	.30	.21	MAZ31000MLTR-ND	3,000	97.00/M
10.40	11.00	11.60	5	20	MAZ31100MLCT-ND	.37	.30	.21	MAZ31100MLTR-ND	3,000	97.00/M
11.40	12.00	12.70	5	25	MAZ31200MLCT-ND	.37	.30	.21	MAZ31200MLTR-ND	3,000	97.00/M
12.40	13.00	14.10	5	30	MAZ31300MLCT-ND	.37	.30	.21	MAZ31300MLTR-ND	3,000	97.00/M
13.65	14.00	14.35	5	30	MAZ31400MLCT-ND	.37	.30	.21	MAZ31400MLTR-ND	3,000	97.00/M
13.90	15.00	15.60	5	30	MAZ31500MLCT-ND	.37	.30	.21	MAZ31500MLTR-ND	3,000	97.00/M
15.30	16.00	17.10	5	40	MAZ31600MLCT-ND	.37	.30	.21	MAZ31600MLTR-ND	3,000	97.00/M
16.90	18.00	19.10	5	45	MAZ31800MLCT-ND	.37	.30	.21	MAZ31800MLTR-ND	3,000	97.00/M
18.80	20.00	21.20	5	55	MAZ32000MLCT-ND	.37	.30	.21	MAZ32000MLTR-ND	3,000	97.00/M
20.80	22.00	23.30	5	55	MAZ32200MLCT-ND	.37	.30	.21	MAZ32200MLTR-ND	3,000	97.00/M
22.80	24.00	25.60	5	70	MAZ32400MLCT-ND	.37	.30	.21	MAZ32400MLTR-ND	3,000	97.00/M
25.10	27.00	28.90	5	80	MAZ32700MLCT-ND	.37	.30	.21	MAZ32700MLTR-ND	3,000	97.00/M
28.00	30.00	32.00	5	80	MAZ33000MLCT-ND	.37	.30	.21	MAZ33000MLTR-ND	3,000	97.00/M
31.00	33.00	35.00	5	80	MAZ33300MLCT-ND	.37	.30	.21	MAZ33300MLTR-ND	3,000	97.00/M
34.00	36.00	38.00	5	90	MAZ33600MLCT-ND	.37	.30	.21	MAZ33600MLTR-ND	3,000	97.00/M
Mini Type Package 3 Pin / Dual Element - 200mW											
5.9	6.2	6.5	5	30	MAZC062D0LCT-ND	.50	.43	.34	MAZC062D0LTR-ND	3,000	112.00/M
5.8	6.2	6.6	5	50	MAZ9062H0LCT-ND	.51	.41	.31	MAZ9062H0LTR-ND	3,000	136.00/M
11.4	12.0	12.7	5	30	MAZ9120H0LCT-ND	.51	.41	.31	MAZ9120H0LTR-ND	3,000	136.00/M
Mini Type 5-Pin Package - 200mW											
6.4	6.8	7.2	5	30	MAZL068H0LCT-ND	.61	.49	.37	MAZL068H0LTR-ND	3,000	159.00/M
11.4	12.0	12.7	5	15	MAZL120H0LCT-ND	.61	.49	.37	MAZL120H0LTR-ND	3,000	159.00/M

Mini Type Package (3-pin)

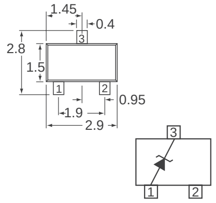

Mini Type Package (3-pin) Dual Element

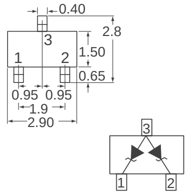

Mini Type (5-pin) Package - 200mW

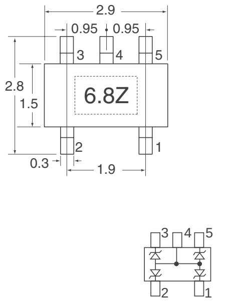

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Panasonic

Zener Diodes Silicon Planar Type *(Cont.)*

Zener Voltage VZ			IZ	RZ (max.)	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel	
Min.	Nom.	Max.	(mA)	(Ohms)	Part No.	1	10	100	Part No.	Size	Pricing
S-Mini Type Package 2 Pin / MA8000 Series - 150mW											
2.28	2.40	2.60	5	100	MAZ802400LCT-ND	.43	.34	.24	MAZ802400LTR-ND	3,000	96.00/M
2.50	2.70	2.90	5	110	MAZ80270HLCT-ND	.43	.34	.24	MAZ80270HLTR-ND	3,000	96.00/M
2.80	3.00	3.20	5	120	MAZ80300HLCT-ND	.43	.34	.24	MAZ80300HLTR-ND	3,000	96.00/M
3.10	3.30	3.50	5	130	MAZ80330HLCT-ND	.38	.30	.21	MAZ80330HLTR-ND	3,000	85.00/M
3.40	3.60	3.80	5	130	MAZ80360HLCT-ND	.43	.34	.24	MAZ80360HLTR-ND	3,000	96.00/M
3.70	3.90	4.10	5	130	MAZ80390HLCT-ND	.43	.34	.24	MAZ80390HLTR-ND	3,000	96.00/M
4.00	4.30	4.60	5	130	MAZ80430MLCT-ND	.43	.34	.24	MAZ80430MLTR-ND	3,000	96.00/M
4.40	4.70	5.00	5	80	MAZ80470MLCT-ND	.43	.34	.24	MAZ80470MLTR-ND	3,000	96.00/M
4.80	5.10	5.40	5	60	MAZ80510MLCT-ND	.43	.34	.24	MAZ80510MLTR-ND	3,000	96.00/M
5.30	5.60	6.00	5	40	MAZ80560MLCT-ND	.43	.34	.24	MAZ80560MLTR-ND	3,000	96.00/M
5.80	6.20	6.60	5	30	MAZ80620MLCT-ND	.43	.34	.24	MAZ80620MLTR-ND	3,000	96.00/M
6.40	6.80	7.20	5	20	MAZ80680MLCT-ND	.43	.34	.24	MAZ80680MLTR-ND	3,000	96.00/M
7.00	7.50	7.90	5	20	MAZ80750MLCT-ND	.43	.34	.24	MAZ80750MLTR-ND	3,000	96.00/M
7.70	8.20	8.70	5	20	MAZ80820MLCT-ND	.43	.34	.24	MAZ80820MLTR-ND	3,000	96.00/M
8.50	9.10	9.60	5	20	MAZ80910MLCT-ND	.43	.34	.24	MAZ80910MLTR-ND	3,000	96.00/M
40	10.00	10.60	5	30	MAZ81000MLCT-ND	.43	.34	.24	MAZ81000MLTR-ND	3,000	96.00/M
10.40	11.00	11.60	5	30	MAZ81100MLCT-ND	.43	.34	.24	MAZ81100MLTR-ND	3,000	96.00/M
11.40	12.00	12.70	5	30	MAZ81200MLCT-ND	.43	.34	.24	MAZ81200MLTR-ND	3,000	96.00/M
12.40	13.00	14.10	5	35	MAZ81300MLCT-ND	.43	.34	.24	MAZ81300MLTR-ND	3,000	96.00/M
13.65	14.00	14.35	5	40	MAZ81400MLCT-ND	.43	.34	.24	MAZ81400MLTR-ND	3,000	96.00/M
13.90	15.00	15.60	5	40	MAZ81500MLCT-ND	.43	.34	.24	MAZ81500MLTR-ND	3,000	96.00/M
15.30	16.00	17.10	5	50	MAZ81600MLCT-ND	.43	.34	.24	MAZ81600MLTR-ND	3,000	96.00/M
16.90	18.00	19.10	5	60	MAZ81800MLCT-ND	.43	.34	.24	MAZ81800MLTR-ND	3,000	96.00/M
18.80	20.00	21.20	5	80	MAZ82000MLCT-ND	.43	.34	.24	MAZ82000MLTR-ND	3,000	96.00/M
20.80	22.00	23.30	5	80	MAZ82200MLCT-ND	.43	.34	.24	MAZ82200MLTR-ND	3,000	96.00/M
22.80	24.00	25.60	5	100	MAZ82400MLCT-ND	.43	.34	.24	MAZ82400MLTR-ND	3,000	96.00/M
25.10	27.00	28.90	2	120	MAZ827000LCT-ND	.43	.34	.24	MAZ827000LTR-ND	3,000	97.00/M
28.00	30.00	32.00	2	160	MAZ83000MLCT-ND	.38	.30	.21	MAZ83000MLTR-ND	3,000	85.00/M
31.00	33.00	35.00	2	200	MAZ83300MLCT-ND	.43	.34	.24	MAZ83300MLTR-ND	3,000	96.00/M
34.00	36.00	38.00	2	250	MAZ83600MLCT-ND	.43	.34	.24	MAZ83600MLTR-ND	3,000	96.00/M
S-Mini Type Package 5-Pin / MAZZ000H Series - 200mW											
6.4	6.8	7.2	5	30	MAZZ068H0LCT-ND	.49	.37	.28	MAZZ068H0LTR-ND	3,000	159.00/M
7.7	8.2	8.7	5	30	MAZZ082H0LCT-ND	.59	.45	.34	MAZZ082H0LTR-ND	3,000	192.00/M
11.4	12.0	12.7	5	30	MAZZ120H0LCT-ND	.59	.45	.34	MAZZ120H0LTR-ND	3,000	192.00/M
SS-Mini Type Package 2-Pin / MAZS000 Series - 150mW											
2.5	2.6	2.75	5	110	MAZS0270LLCT-ND	.40	.34	.27	MAZS0270LLTR-ND	3,000	107.00/M
2.95	3.1	3.2	5	120	MAZS0300HLCT-ND	.40	.34	.27	MAZS0300HLTR-ND	3,000	107.00/M
3.1	3.3	3.5	5	130	MAZS0330HLCT-ND	.40	.34	.27	MAZS0330HLTR-ND	3,000	107.00/M
3.55	3.7	3.8	5	130	MAZS0360HLCT-ND	.40	.34	.27	MAZS0360HLTR-ND	3,000	107.00/M
3.7	3.9	4.1	5	130	MAZS0390HLCT-ND	.40	.34	.27	MAZS0390HLTR-ND	3,000	107.00/M
4	4.3	4.6	5	130	MAZS0430MLCT-ND	.40	.34	.27	MAZS0430MLTR-ND	3,000	107.00/M
4.4	4.7	5	5	80	MAZS0470MLCT-ND	.40	.34	.27	MAZS0470MLTR-ND	3,000	107.00/M
4.8	5.1	5.4	5	60	MAZS0510MLCT-ND	.40	.34	.27	MAZS0510MLTR-ND	3,000	107.00/M
5.3	5.6	6	5	40	MAZS0560MLCT-ND	.40	.34	.27	MAZS0560MLTR-ND	3,000	107.00/M
5.8	6.2	6.6	5	30	MAZS0620MLCT-ND	.40	.34	.27	MAZS0620MLTR-ND	3,000	107.00/M
6.4	6.8	7.2	5	20	MAZS0680MLCT-ND	.40	.34	.27	MAZS0680MLTR-ND	3,000	107.00/M
7	7.5	7.9	5	20	MAZS0750MLCT-ND	.40	.34	.27	MAZS0750MLTR-ND	3,000	107.00/M
7.7	8.2	8.7	5	20	MAZS0820MLCT-ND	.40	.34	.27	MAZS0820MLTR-ND	3,000	107.00/M
8.87	9.1	9.33	5	20	MAZS0910MLCT-ND	.40	.34	.27	MAZS0910MLTR-ND	3,000	107.00/M
9.4	10	10.6	5	30	MAZS1000MLCT-ND	.40	.34	.27	MAZS1000MLTR-ND	3,000	107.00/M
10.73	11	11.28	5	30	MAZS1100MLCT-ND	.40	.34	.27	MAZS1100MLTR-ND	3,000	107.00/M
11.4	12	12.7	5	30	MAZS1200MLCT-ND	.40	.34	.27	MAZS1200MLTR-ND	3,000	107.00/M
12.73	13	13.4	5	35	MAZS1300MLCT-ND	.40	.34	.27	MAZS1300MLTR-ND	3,000	107.00/M
14.6	15	15.35	5	40	MAZS1500MLCT-ND	.40	.34	.27	MAZS1500MLTR-ND	3,000	107.00/M
15.7	16	16.5	5	50	MAZS1600MLCT-ND	.40	.34	.27	MAZS1600MLTR-ND	3,000	107.00/M
17.55	18	18.45	5	60	MAZS1800MLCT-ND	.40	.34	.27	MAZS1800MLTR-ND	3,000	107.00/M
19.5	20	20.5	5	80	MAZS2000MLCT-ND	.40	.34	.27	MAZS2000MLTR-ND	3,000	107.00/M
20.8	22	23.3	5	80	MAZS2200MLCT-ND	.40	.34	.27	MAZS2200MLTR-ND	3,000	107.00/M
26.3	27	27.7	2	120	MAZS2700MLCT-ND	.40	.34	.27	MAZS2700MLTR-ND	3,000	107.00/M
32.2	33	33.8	2	200	MAZS3300MLCT-ND	.40	.34	.27	MAZS3300MLTR-ND	3,000	107.00/M
34	36	38	2	250	MAZS3600MLCT-ND	.40	.34	.27	MAZS3600MLTR-ND	3,000	107.00/M
SS-Mini Type Package 3-Pin / MAZT000H Series - 150mW											
6.4	6.8	7.2	5	30	MAZT068H0LCT-ND	.42	.34	.26	MAZT068H0LTR-ND	3,000	112.00/M
7.7	8.2	8.7	5	30	MAZT082H0LCT-ND	.42	.34	.26	MAZT082H0LTR-ND	3,000	112.00/M
SS-Mini Type Package 5-Pin / 150mW											
6.4	6.8	7.2	5	30	MAZM068H0LCT-ND	.69	.52	.39	MAZM068H0LTR-ND	3,000	224.00/M
SSS-Mini Type Package 2-Pin / 120mW											
5.8	6.2	6.6	5	30	MAZD06200LCT-ND	.49	.40	.30	MAZD06200LTR-ND	10,000	123.00/M
6.4	6.8	7.2	5	20	MAZD06800LCT-ND	.49	.40	.30	MAZD06800LTR-ND	10,000	123.00/M
SSS-Mini Type Package 3-Pin / 150mW											
6.4	6.8	7.2	5	30	MAZW068H0LCT-ND	.59	.45	.34	MAZW068H0LTR-ND	10,000	184.00/M
7.7	8.2	8.7	5	30	MAZW082H0LCT-ND	.54	.43	.33	MAZW082H0LTR-ND	10,000	134.00/M
1008 Leadless Package 4-Pin / 100mW											
7.7	8.2	8.7	5	20	MAZR08200ACT-ND	.43	.35	.26	MAZR08200ATR-ND	10,000	107.00/M
7.7	8.2	8.7	5	20	MAZR082H0ACT-ND	.69	.52	.39	MAZR082H0ATR-ND	10,000	214.00/M

S-Mini Type Package (2-pin)

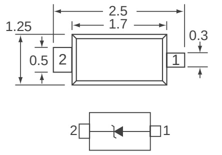

S-Mini Type Package (5-pin)

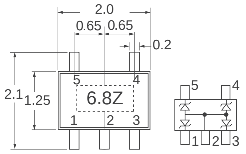

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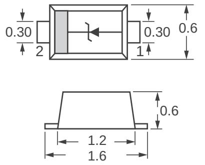

SS-Mini Type Package (3-pin)

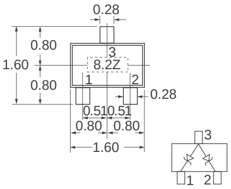

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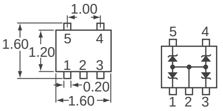

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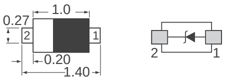

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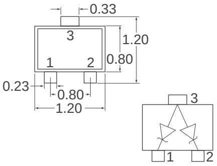

1008 Leadless Package (4-pin)

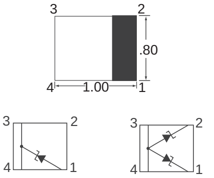

MAZR08200A
MAZR082H0A

PHILIPS Transistors

Fig.	Package	V_{CEO} (V)	V_{CBO} (V)	I_C (mA)	h_{FE} Min.	h_{FE} Max.	FT (Min.) MHz.	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape & Reel ‡ Size	Pricing	Philips Part No.
								NPN						
1A	TO-92	40	60	200	100	300	300	568-1366-1-ND	.13	2.48	7.15	2,000	29.70/M	2N3904 T/R
		40	60	600	100	300	250	568-1368-1-ND	.13	2.48	7.15	2,000	29.70/M	2N4401 T/R
		40	75	600	100	300	300	568-1751-1-ND	.12	2.25	6.50	2,000	27.00/M	PN2222A T/R
		80	80	500	100	—	100	568-1173-ND†	.17	3.15	9.10	—	—	MPSA06
1B	TO-92	45	50	500	160	400	80	568-1627-1-ND§	.14	2.70	7.80	2,000	32.40/M	BC337-16 AMO
								568-1628-1-ND§	.14	2.70	7.80	2,000	32.40/M	BC337-25 AMO
2	SOT-23	15	40	200	40	120	500	568-1739-1-ND	.13	2.48	7.15	3,000	25.85/M	PMBT2369 T/R
		15	60	600	100	300	250	568-1743-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT4401 T/R
		40	60	200	100	300	300	568-1741-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT3904 T/R
		40	75	600	100	300	300	568-1738-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT2222A T/R
		40	75	500	160	400	80	568-1630-1-ND	.12	2.25	6.50	3,000	23.50/M	BC817-25 T/R
		45	50	500	160	400	80	568-1631-1-ND	.12	2.25	6.50	3,000	23.50/M	BC817-40 T/R
		45	50	100	200	450	100	568-1633-1-ND	.09	1.69	4.88	3,000	17.63/M	BC847B T/R
		45	50	100	420	800	100	568-1636-1-ND	.09	1.69	4.88	3,000	17.63/M	BC847C T/R
		65	80	100	200	450	100	568-1632-1-ND	.09	1.69	4.88	3,000	17.63/M	BC846B T/R
		80	80	500	100	—	100	568-1745-1-ND	.13	2.48	7.15	3,000	25.85/M	PMBTA06 T/R
		300	300	100	40	—	50	568-1746-1-ND	.17	3.15	9.10	3,000	32.90/M	PMBTA42 T/R
3A	SOT-363	45	50	100	200	450	100	568-1635-1-ND	.22	4.05	11.70	3,000	42.30/M	BC847BS T/R
4A	SOT-223	40	60	200	100	300	300	568-1182-1-ND	.40	8.00	24.00	1,000	112.00	PZT3904 T/R
		80	100	1,000	40	250	130	568-1639-1-ND	.40	7.81	22.00	1,000	95.00	BCP56 T/R
5	SOT-89	40	60	100	100	300	300	568-1181-1-ND	.50	10.00	30.00	1,000	140.00	PXT2222A T/R
		80	100	1,000	100	250	130	568-1642-1-ND	.36	7.22	19.80	1,000	99.00	BCX56-16 T/R
								PNP						
1A	TO-92	40	40	200	100	300	250	568-1367-1-ND	.13	2.48	7.15	2,000	29.70/M	2N3906 T/R
		60	60	600	100	300	200	568-1752-1-ND	.12	2.25	6.50	2,000	27.00/M	PN2907A T/R
2	SOT-23	40	40	200	100	300	250	568-1742-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT3906 T/R
		40	40	600	100	300	200	568-1744-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT4403 T/R
		40	40	100	220	475	100	568-1638-1-ND	.11	2.03	5.85	3,000	21.15/M	BC857B T/R
		45	50	500	100	600	80	568-1640-1-ND	.18	3.38	9.75	3,000	35.25/M	BCX17 T/R
		45	50	500	250	600	80	568-1629-1-ND	.12	2.25	6.50	3,000	23.50/M	BC807-40 T/R
		60	60	600	100	300	200	568-1740-1-ND	.08	1.58	4.55	3,000	16.45/M	PMBT2907A T/R
		65	80	100	220	475	100	568-1637-1-ND	.11	2.03	5.85	3,000	21.15/M	BC856B T/R
		80	80	500	100	—	50	568-1747-1-ND	.14	2.70	7.80	3,000	28.20/M	PMBTA56 T/R
		300	300	100	40	—	50	568-1748-1-ND	.17	3.15	9.10	3,000	32.90/M	PMBTA92 T/R
4A	SOT-223	40	40	100	100	300	250	568-1183-1-ND	.40	8.00	24.00	—	—	PZT3906 T/R
5	SOT-89	80	100	1,000	100	250	50	568-1641-1-ND	.36	7.22	19.80	1,000	99.00	BCX53-16 T/R
								NPN/PNP						
3A	SOT-363	45	50	100	200	450	100	568-1634-1-ND	.22	4.05	11.70	3,000	42.30/M	BC847BPN T/R

† Bulk § For Tape and Box part number, change 1-ND to 3-ND ‡ For Tape and Reel part number, change 1-ND to 2-ND

Wideband Transistors

Fig.	Package	Transition Frequency (GHz)	V_{CEO} (V)	I_C (mA)	P_{tot} (W)	h_{FE} (Typical)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape & Reel ‡ Size	Pricing	Philips Part No.
							NPN						
2	SOT-23	1	15	25	0.3	90	568-1652-1-ND	.35	6.89	19.40	3,000	79.38/M	BFS17 T/R
		2.8	15	25	0.3	90	568-1653-1-ND	.39	7.66	21.56	3,000	88.20/M	BFS17A T/R
		2.8	5	6.5	.032	80	568-1992-1-ND	.66	12.29	36.86	3,000	212.94/M	BFT25A T/R
		5	15	25	0.3	90	568-1650-1-ND	.51	10.34	28.37	3,000	133.96/M	BFR92A T/R
		5	15	100	.5	80	568-1987-1-ND	.47	9.45	28.35	3,000	127.58/M	BFR106 T/R
		6	12	35	0.3	90	568-1651-1-ND	.51	10.34	28.37	3,000	133.96/M	BFR93A T/R
		6	12	50	0.3	100	568-1647-1-ND	.48	9.65	26.46	3,000	124.95/M	BFQ67 T/R
		8	10	50	0.36	100	568-1174-1-ND	.51	10.24	28.08	3,000	132.60/M	PBR941 T/R
		8	10	100	0.365	100	568-1175-1-ND	.51	10.24	28.08	3,000	132.60/M	PBR951 T/R
		8	10	18	.15	120	568-1988-1-ND	.58	11.55	34.65	3,000	155.93/M	BFR505 T/R
		9	15	70	0.3	120	568-1648-1-ND	.56	10.43	31.28	3,000	180.70/M	BFR520 T/R
		9	15	120	0.5	120	568-1649-1-ND	.78	14.55	43.65	3,000	252.20/M	BFR540 T/R
3B	SOT-363	9	8	70	1	120	568-1646-1-ND	.84	15.83	47.48	3,000	274.30/M	BFM520 T/R
		5.5	15	100	1	80	568-1986-1-ND	1.07	22.31	71.40	3,000	464.10/M	BFG97 T/R
4B	SOT-223	7	15	150	1	130	568-1643-1-ND	.91	19.03	60.90	1,000	404.99	BFG135 T/R
		7	15	200	2	90	568-1985-1-ND	.95	19.69	63.00	1,000	418.95	BFG591 T/R
		9	15	120	.65	120	568-1984-1-ND	.88	16.54	49.61	1,000	286.65	BFG541 T/R
6A	SOT-343R	17	4.5	3.6	.016	80	568-1979-1-ND	.67	12.53	37.58	3,000	217.10/M	BFG403W T/R
		18	15	500	.60	100	568-1974-1-ND	.83	17.38	55.60	3,000	361.40/M	BFG21W T/R
		21	4.5	250	.36	60	568-1982-1-ND	.76	14.18	42.53	3,000	245.70/M	BFG480W T/R
		22	4.5	12	.054	80	568-1980-1-ND	.67	12.53	37.58	3,000	217.10/M	BFG410W T/R
		25	4.5	30	0.135	80	568-1644-1-ND	.67	12.53	37.58	3,000	217.10/M	BFG425W T/R

‡ For Tape and Reel part number, change 1-ND to 2-ND

Fig. 1 — TO-92

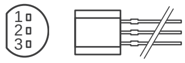

A	B
1. Collector	1. Emitter
2. Base	2. Base
3. Emitter	3. Collector

Fig. 2 — SOT-23

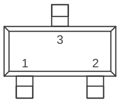

1. Base
2. Emitter
3. Collector

Fig. 3 — SOT-363

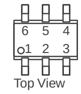

A	B
1,4 Emitter	1,4 Base
2,5 Base	2,5 Emitter
3,6 Collector	3,6 Collector

Fig. 4 — SOT-223

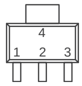

A	B
1. Base	1. Emitter
2. Collector	2. Base
3. Emitter	3. Emitter
4. Collector	4. Collector

Fig. 5 — SOT-89

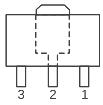

1. Emitter
2. Collector
3. Base

Fig. 6 — SOT-343R

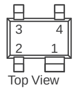

A	B
1. Emitter	1. Collector
2. Base	2. Emitter
3. Emitter	3. Base
4. Collector	4. Emitter

Fig. 7 — SOT-343N

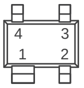

1. Collector
2. Emitter
3. Base
4. Emitter

Fig. 8 — SOT-323

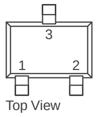

1. Base
2. Emitter
3. Collector

(Continued)

PHILIPS Wideband Transistors *(Cont.)*

Fig.	Package	Transition Frequency (GHz)	V_{CEO} (V)	I_C (mA)	P_{tot} (W)	h_{FE} (Typical)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape & Reel ‡ Size	Pricing	Philips Part No.
							NPN						
6B	SOT-343R	14	6	10	.06	100	568-1976-1-ND	.72	13.50	40.50	3,000	234.00/M	BFG310W/XR T/R
				35	.21	100	568-1978-1-ND	.80	15.00	45.00	3,000	260.00/M	BFG325W/XR T/R
7	SOT-343N	9	15	70	0.5	120	568-1645-1-ND	.71	13.35	40.05	3,000	231.40/M	BFG520W/X T/R
		1.6	15	50	.3	90	568-1990-1-ND	.40	7.81	22.00	3,000	90.00/M	BFS17W T/R
		5	15	25	.3	90	568-1989-1-ND	.51	10.34	28.37	3,000	133.96/M	BFR92AW T/R
8	SOT-323	8.5	10	100	0.28	100	568-1177-1-ND	.40	8.01	21.96	3,000	103.70/M	PRF957 T/R
		9	15	18	.15	120	568-1991-1-ND	.56	10.50	31.50	3,000	182.00/M	BFS505 T/R
		9	15	70	0.3	120	568-1654-1-ND	.65	12.23	36.68	3,000	211.90/M	BFS520 T/R
9	SOT-143R	14	6	10	.60	100	568-1975-1-ND	.72	13.50	40.50	3,000	234.00/M	BFG310/XR T/R
			6	35	.21	100	568-1977-1-ND	.80	15.00	45.00	3,000	260.00/M	BFG325/XR T/R
10	SOT-343F	25	4.5	30	.135	80	568-1981-1-ND	.67	12.53	37.58	3,000	217.10/M	BFG424F T/R
11	SOT-143B	9	15	120	.4	120	568-1983-1-ND	.88	16.54	49.61	3,000	286.65/M	BFG540/X T/R
12	SOT-416	9	10	50	.15	150	568-2085-1-ND	.37	7.48	20.52	3,000	96.90/M	PRF949 T/R
							PNP						
2	SOT-23	5	12	35	0.3	50	568-1993-1-ND	.59	11.03	33.08	3,000	191.10/M	BFT93 T/R
			15	25	0.3	50	568-1655-1-ND	.59	11.03	33.08	3,000	191.10/M	BFT92 T/R
8	SOT-323	5	15	35	0.3	50	568-1656-1-ND	.80	14.93	44.78	3,000	258.70/M	BFT92W T/R

‡ For Tape and Reel part number, change 1-ND to 2-ND

Fig. 9 — SOT-143R

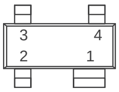

1. Collector
2. Emitter
3. Base
4. Emitter

Fig. 10 — SOT-343F

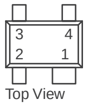

1. Emitter
2. Base
3. Emitter
4. Collector

Fig. 11 — SOT-143B

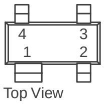

1. Collector
2. Emitter
3. Base
4. Emitter

Fig. 12 — SOT-416

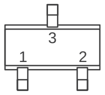

1. Base
2. Emitter
3. Collector

NEW! Transistor Arrays

Fig.	Package	V_{CEO} (V)	I_C (mA)	R1	R2	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Philips Part No.
						NPN							
4	SOT-23	50	100	100K	–	568-2148-1-ND	.13	2.48	7.15	568-2148-2-ND	3,000	25.85/M	PDTC115TT T/R
3		50	100	2.2K	47K	568-2154-1-ND	.29	5.40	15.60	568-2154-2-ND	10,000	40.80/M	PDTC123JT /T3
3		50	100	4.7K	47K	568-2168-1-ND	.29	5.40	15.60	568-2168-2-ND	10,000	40.80/M	PDTC143ZT /T3
3	SOT-416	50	100	4.7K	47K	568-2165-1-ND	.30	5.63	15.60	568-2165-2-ND	3,000	60.00/M	PDTC143ZE T/R
4		50	100	47K	–	568-2169-1-ND	.30	5.63	15.60	568-2169-2-ND	3,000	60.00/M	PDTC144TE T/R
4		50	100	4.7K	–	568-2161-1-ND	.30	5.63	15.60	568-2161-2-ND	3,000	60.00/M	PDTC143TE T/R
4		50	100	22K	–	568-2156-1-ND	.30	5.63	15.60	568-2156-2-ND	3,000	60.00/M	PDTC124TE T/R
3		50	100	2.2K	2.2K	568-2150-1-ND	.29	5.40	15.60	568-2150-2-ND	3,000	56.40/M	PDTC123EE T/R
4		50	100	100K	–	568-2145-1-ND	.29	5.40	15.60	568-2145-2-ND	3,000	56.40/M	PDTC115TE T/R
3		50	100	47K	22K	568-2171-1-ND	.30	5.63	15.60	568-2171-2-ND	3,000	60.00/M	PDTC144WE T/R
4	SOT-346	50	100	100K	–	568-2146-1-ND	.13	2.48	7.15	568-2146-2-ND	3,000	25.85/M	PDTC115TK T/R
4	SOT-323	50	100	100K	–	568-2149-1-ND	.29	5.40	15.60	568-2149-2-ND	3,000	56.40/M	PDTC115TU T/R
4	SOT-490	50	100	10K	–	568-2140-1-ND	.30	5.63	15.60	568-2140-2-ND	4,000	60.00/M	PDTC114TEF T/R
3		50	100	10K	47K	568-2142-1-ND	.30	5.63	15.60	568-2142-2-ND	4,000	60.00/M	PDTC114YEF T/R
3		50	20	100K	100K	568-2143-1-ND	.30	5.63	15.60	568-2143-2-ND	4,000	60.00/M	PDTC115EEF T/R
3		50	100	2.2K	2.2K	568-2151-1-ND	.29	5.40	15.60	568-2151-2-ND	4,000	56.40/M	PDTC123EEF T/R
3		50	100	4.7K	4.7K	568-2159-1-ND	.30	5.63	15.60	568-2159-2-ND	4,000	60.00/M	PDTC143EEF T/R
1		50	100	4.7	10K	568-2163-1-ND	.30	5.63	15.60	568-2163-2-ND	4,000	60.00/M	PDTC143XEF T/R
3		50	100	4.7K	47K	568-2166-1-ND	.30	5.63	15.60	568-2166-2-ND	4,000	60.00/M	PDTC143ZEF T/R
						PNP							
1	SOT-23	50	20	100K	100K	568-2109-1-ND	.13	2.48	7.15	568-2109-2-ND	3,000	25.85/M	PDTA115ET T/R
2		50	100	22K	–	568-2122-1-ND	.13	2.48	7.15	568-2122-2-ND	3,000	25.85/M	PDTA124TT T/R
2		50	100	47K	–	568-2136-1-ND	.13	2.48	7.15	568-2136-2-ND	3,000	25.85/M	PDTA144TT T/R
2		50	100	100K	–	568-2114-1-ND	.13	2.48	7.15	568-2114-2-ND	3,000	25.85/M	PDTA115TT T/R
1	SOT-416	50	100	10K	47K	568-2104-1-ND	.30	5.63	15.60	568-2104-2-ND	3,000	60.00/M	PDTA114YE T/R
1		50	20	100K	100K	568-2106-1-ND	.29	5.40	15.60	568-2106-2-ND	3,000	56.40/M	PDTA115EE T/R
2		50	100	22K	–	568-2119-1-ND	.29	5.40	15.60	568-2119-2-ND	3,000	56.40/M	PDTA124TE T/R
1		50	100	2.2K	2.2K	568-2116-1-ND	.29	5.40	15.60	568-2116-2-ND	3,000	56.40/M	PDTA123EE T/R
2		50	100	4.7K	–	568-2127-1-ND	.30	5.63	15.60	568-2127-2-ND	3,000	60.00/M	PDTA143TE T/R
1		50	100	4.7K	47K	568-2130-1-ND	.30	5.63	15.60	568-2130-2-ND	3,000	60.00/M	PDTA143ZE T/R
1		50	100	47K	22K	568-2138-1-ND	.29	5.40	15.60	568-2138-2-ND	3,000	56.40/M	PDTA144WE T/R
2		50	100	47K	–	568-2133-1-ND	.29	5.40	15.60	568-2133-2-ND	3,000	56.40/M	PDTA144TE T/R
2		50	100	100K	–	568-2111-1-ND	.29	5.40	15.60	568-2111-2-ND	3,000	56.40/M	PDTA115TE T/R
1	SOT-346	50	20	100K	100K	568-2107-1-ND	.13	2.48	7.15	568-2107-2-ND	3,000	25.85/M	PDTA115EK T/R
2		50	100	10K	–	568-2102-1-ND	.13	2.48	7.15	568-2102-2-ND	10,000	18.70/M	PDTA114TK T/R
2		50	100	22K	–	568-2120-1-ND	.13	2.48	7.15	568-2120-2-ND	3,000	25.85/M	PDTA124TK T/R
2		50	100	47K	–	568-2134-1-ND	.13	2.48	7.15	568-2134-2-ND	3,000	25.85/M	PDTA144TK T/R
2		50	100	100K	–	568-2112-1-ND	.13	2.48	7.15	568-2112-2-ND	3,000	25.85/M	PDTA115TK T/R
1	SOT-323	50	20	100K	100K	568-2110-1-ND	.29	5.40	15.60	568-2110-2-ND	3,000	56.40/M	PDTA115EU T/R
2		50	100	100K	–	568-2115-1-ND	.29	5.40	15.60	568-2115-2-ND	3,000	56.40/M	PDTA115TU T/R
2		50	100	47K	–	568-2137-1-ND	.29	5.40	15.60	568-2137-2-ND	3,000	56.40/M	PDTA144TU T/R
2		50	100	22K	–	568-2123-1-ND	.29	5.40	15.60	568-2123-2-ND	3,000	56.40/M	PDTA124TU T/R
1	SOT-490	50	100	4.7K	4.7K	568-2125-1-ND	.30	5.63	15.60	568-2125-2-ND	4,000	60.00/M	PDTA143EEF T/R
1		50	100	4.7K	47K	568-2131-1-ND	.30	5.63	15.60	568-2131-2-ND	4,000	60.00/M	PDTA143ZEF T/R
2		50	100	10K	–	568-2101-1-ND	.30	5.63	15.60	568-2101-2-ND	4,000	60.00/M	PDTA114TEF T/R

Fig. 1

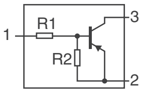

Fig. 2

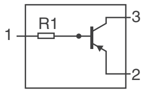

Fig. 3

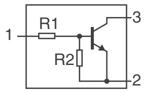

Fig. 4

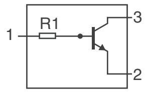

SOT-23

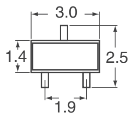

SOT-416

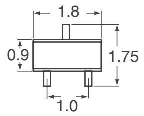

SOT-346

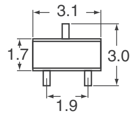

SOT-323

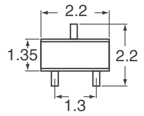

SOT-490

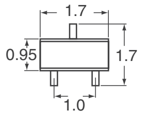

NEW! PNP Loadswitch

I_C (mA)	VCEO (V)	VCESAT (mV)	R1	R2	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Philips Part No.
500	12	250	10K	10K	568-2173-1-ND	.60	11.25	33.75	568-2173-2-ND	4,000	195.00/M	PEMF21 T/R

SOT-666

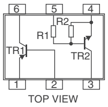

PHILIPS MOSFETS

Fig.	Package	V_{DSS} (V)	I_D (A)	$R_{DS(on)}$ (Ω)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel ‡		Philips Part No.
						1	25	100	Size	Pricing	
N-Channel											
1A	SOT-23	50	0.173	15	568-1658-1-ND	.38	7.39	20.81	3,000	85.14/M	BSN20 T/R
		55	0.335	5	568-1657-1-ND	.29	5.51	15.29	3,000	58.80/M	BSH111 T/R
		60	0.30	5	568-1369-1-ND	.19	3.56	10.27	3,000	37.13/M	2N7002 T/R
		60	0.30	5.5	568-1768-1-ND	.49	9.70	29.10	10,000	123.68/M	BSH112 T/3
2	SOT-223	240	0.375	5	568-1769-1-ND	.64	12.00	36.00	1,000	212.80	BSP89 T/R
3A	SOT-143B	10	0.05	45	568-1659-1-ND	.76	14.18	42.53	3,000	245.70/M	BSS83 T/R
3B	SOT-143B	6	.03	—	568-1962-1-ND	.56	10.50	31.50	3,000	182.00/M	BF1212
		6	.03	—	568-1959-1-ND	.56	10.50	31.50	3,000	182.00/M	BF1211
		12	.03	—	568-1973-1-ND	.47	9.35	28.05	3,000	126.23/M	BF998 T/R
		12	.02	—	568-1970-1-ND	.55	10.24	30.71	3,000	177.45/M	BF991 T/R
		20	.03	—	568-1972-1-ND	.59	11.03	33.08	3,000	191.10/M	BF994S T/R
		20	.04	—	568-1971-1-ND	.55	10.24	30.71	3,000	177.45/M	BF992 T/R
4	SOT-143R	6	.03	—	568-1960-1-ND	.56	10.50	31.50	3,000	182.00/M	BF1211R
					568-1963-1-ND	.56	10.50	31.50	3,000	182.00/M	BF1212R
5	SOT-343R	6	.03	—	568-1961-1-ND	.56	10.50	31.50	3,000	182.00/M	BF1211WR
		6	.03	—	568-1964-1-ND	.56	10.50	31.50	3,000	182.00/M	BF1212WR
		12	.04	—	568-1969-1-ND	.47	9.45	28.35	3,000	127.58/M	BF908WR T/R
6	TO-220AB	100	17	0.11	568-1159-5-ND§	.62	12.81	41.00	—	—	IRF530N
		100	23	0.077	568-1160-5-ND§	.63	13.13	42.00	—	—	IRF540
		200	16	0.18	568-1161-5-ND§	.94	18.70	56.10	—	—	IRF640
8	LFPAK	55	40	21	568-2174-1-ND ***NEW!***	1.50	30.00	90.00	1,500	780.00/M	PH1955L T/R
		25	100	4.1	568-2177-1-ND ***NEW!***	1.80	36.00	108.00	1,500	1053.00/M	PH2625L T/R
		25	78.7	9.5	568-2181-1-ND ***NEW!***	1.63	32.50	97.50	1,500	845.00/M	PH6325L T/R
		20	121	2.5	568-2176-1-ND ***NEW!***	2.18	43.61	130.82	1,500	1133.74/M	PH2520U T/R
		20	100	3.7	568-2178-1-ND ***NEW!***	2.46	49.26	147.78	1,500	1280.76/M	PH3120L T/R
		25	100	0.003	568-2344-1-ND ***NEW!***	2.18	43.61	130.82	1,500	1133.74/M	PH2925U T/R
		30	100	0.0032	568-2345-1-ND ***NEW!***	2.00	40.00	120.00	1,500	1040.00/M	PH3230S T/R
		30	98	0.0038	568-2346-1-ND ***NEW!***	1.83	36.50	109.50	1,500	949.00/M	PH3830L T/R
		30	80	7.2	568-2179-1-ND ***NEW!***	1.78	35.50	106.50	1,500	923.00/M	PH4530L T/R
		30	80	0.0057	568-2348-1-ND ***NEW!***	1.70	34.00	102.00	1,500	884.00/M	PH5330E T/R
		30	68	0.0079	568-2349-1-ND ***NEW!***	1.43	28.50	85.50	1,500	741.00/M	PH7030L T/R
		30	67	0.0082	568-2350-1-ND ***NEW!***	1.50	30.00	90.00	1,500	780.00/M	PH8230E T/R
		40	94.5	4.1	568-2180-1-ND ***NEW!***	1.88	37.50	112.50	1,500	975.00/M	PH4840S T/R
		100	34.3	23	568-2175-1-ND ***NEW!***	2.25	45.00	135.00	1,500	1170.00/M	PH20100S T/R
9	D2PAK	40	75	8	568-2182-1-ND ***NEW!***	1.46	29.25	87.75	800	631.80	PHB101NQ04T /T3
		55	75	9.3	568-2183-1-ND ***NEW!***	2.28	45.50	136.50	800	982.80	PHB110NQ06LT /T3
		40	75	7.1	568-2184-1-ND ***NEW!***	2.57	51.48	160.16	800	1189.76	PHB129NQ04LT /T3
		55	75	6.4	568-2185-1-ND ***NEW!***	2.78	55.58	172.90	800	1284.40	PHB146NQ06LT /T3
		25	75	5	568-2186-1-ND ***NEW!***	1.95	39.00	117.00	800	842.40	PHB152NQ03LTA/T3
		40	75	4.8	568-2187-1-ND ***NEW!***	2.78	55.58	172.90	800	1284.40	PHB174NQ04LT /T3
		55	75	4.4	568-2188-1-ND ***NEW!***	2.90	57.92	180.18	800	1338.48	PHB191NQ06LT /T3
		40	75	3.5	568-2189-1-ND ***NEW!***	2.90	57.92	180.18	800	1338.48	PHB222NQ04LT /T3
		75	27	50	568-2190-1-ND ***NEW!***	.89	18.44	59.00	800	330.40	PHB29N08T /T3
		20	44.7	30	568-2191-1-ND ***NEW!***	.80	15.00	45.00	800	224.00	PHB38N02LT /T3
		150	45.1	42	568-2192-1-ND ***NEW!***	1.75	35.00	105.00	800	756.00	PHB45NQ15T /T3
1D	SOT-23	20	5.7	0.036	568-2353-1-ND ***NEW!***	.45	9.00	27.00	3,000	121.50/M	PMV30UN T/R
1A		20	5.9	0.037	568-2354-1-ND ***NEW!***	.55	11.00	33.00	3,000	148.50/M	PMV31XN T/R
1A		30	4.9	0.047	568-2355-1-ND ***NEW!***	.48	9.00	27.00	3,000	156.00/M	PMV40UN T/R
1A		30	5.4	0.042	568-2356-1-ND ***NEW!***	.55	11.00	33.00	3,000	148.50/M	PMV45EN T/R
1A		30	4.7	0.055	568-2357-1-ND ***NEW!***	.58	11.50	34.50	3,000	155.25/M	PMV60EN T/R
NEW! Dual N-Channel NEW!											
10	8-TSSOP	20	11.6	0.0185	568-2359-1-ND	.60	11.25	33.75	2,500	195.00/M	PMWD15UN /T3
		20	9.9	0.019	568-2360-1-ND	.96	18.00	54.00	2,500	312.00/M	PMWD16UN /T3
		30	5.6	0.023	568-2361-1-ND	.96	18.00	54.00	2,500	312.00/M	PMWD19UN /T3
		20	10.4	0.024	568-2362-1-ND	.84	15.75	47.25	2,500	273.00/M	PMWD20XN /T3
		20	7.8	0.03	568-2363-1-ND	.96	18.00	54.00	2,500	312.00/M	PMWD26UN /T3
		30	5	0.033	568-2364-1-ND	.96	18.00	54.00	2,500	312.00/M	PMWD30UN /T3
7	SOT-363	20	0.87	0.34	568-2365-1-ND	.47	9.45	25.92	3,000	122.40/M	PMGD280UN T/R
		20	0.86	0.35	568-2366-1-ND	.47	9.45	25.92	3,000	122.40/M	PMGD290XN T/R
		30	0.74	0.44	568-2367-1-ND	.47	9.45	25.92	3,000	122.40/M	PMGD370XN T/R
		30	0.71	0.48	568-2368-1-ND	.47	9.45	25.92	3,000	122.40/M	PMGD400UN T/R
		60	0.49	0.92	568-2369-1-ND	.47	9.45	25.92	3,000	122.40/M	PMGD780SN T/R
		30	0.125	8	568-2370-1-ND	.50	10.00	30.00	3,000	135.00/M	PMGD8000LN T/R
P-Channel											
1A	SOT-23	50	0.13	10	568-1660-1-ND	.28	5.33	14.77	3,000	56.80/M	BSS84 T/R
		20	3.9	0.076	568-2358-1-ND ***NEW!***	.50	10.00	30.00	3,000	135.00/M	PMV65XP T/R
JFET N-Channel											
1B	SOT-23	20	.025	—	568-1968-1-ND	.50	9.45	28.35	3,000	163.80/M	BF862 T/R
		25	.015	—	568-1967-1-ND	.55	10.24	30.71	3,000	177.45/M	BF861B T/R
		25	.05	50	568-2083-1-ND	.34	6.56	18.48	3,000	75.60/M	PMBFJ310 T/R
		30	.025	—	568-1966-1-ND	.50	9.45	28.35	3,000	163.80/M	BF545C T/R
1C	SOT-23	25	.05	8	568-2078-1-ND	.41	8.27	22.68	3,000	107.10/M	PMBFJ108 T/R
				12	568-2079-1-ND	.41	8.27	22.68	3,000	107.10/M	PMBFJ109 T/R
				18	568-2080-1-ND	.41	8.27	22.68	3,000	107.10/M	PMBFJ110 T/R
1D	SOT-23	20	.007	—	568-1965-1-ND	.69	13.00	38.99	3,000	225.29/M	BF511 T/R
7	SOT-363	25	60	50	568-2084-1-ND	.75	15.63	50.00	3,000	325.00/M	PMBFJ620 T/R
JFET P-Channel											
1C	SOT-23	30	.002	250	568-2082-1-ND	.41	8.27	22.68	3,000	107.10/M	PMBFJ176 T/R
			.02	85	568-2081-1-ND	.41	8.27	22.68	3,000	107.10/M	PMBFJ174 T/R

§ Tube ‡ For Tape and Reel part number, change 1-ND to 2-ND

Fig. 1 — SOT-23

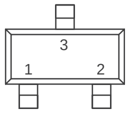

A	B	C	D
1. Gate	1. Source	1. Drain	1. Gate
2. Source	2. Drain	2. Source	2. Drain
3. Drain	3. Gate	3. Gate	3. Source

Fig. 2 — SOT-223

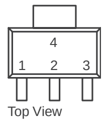

1. Gate
2. Drain
3. Source
4. Drain

Fig. 3 — SOT-143B

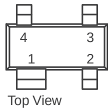

A	B
1. Substrate (b)	1. Source
2. Source	2. Drain
3. Drain	3. Gate 2
4. Gate	Gate 1

Fig. 4 — SOT-143R

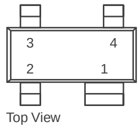

1. Source
2. Drain
3. Gate 2
4. Gate 1

Fig. 5 — SOT-343R

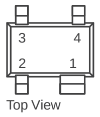

1. Source
2. Drain
3. Gate 2
4. Gate 1

Fig. 6 — TO-220AB

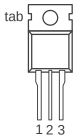

1. Gate
2. Drain
3. Source
Tab - Drain

Fig. 7 — SOT-363

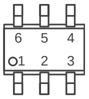

1. Source (1)
2. Source (2)
3. Gate (2)
4. Drain (2)
5. Drain (1)
6. Gate (1)

Fig. 8 — LFPAK *NEW!*

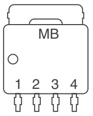

1,2,3: Source (S)
4: Gate (G)
MB: Mounting Base,
Connected to Drain (D)

Fig. 9 — D2PAK *NEW!*

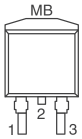

1. Gate (G)
2. Drain (D)
3. Source (S)
MB: Mounting Base,
Connected to Drain (D)

Fig. 10 — 8-TSSOP *NEW!*

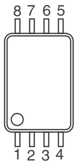

1,8: Drain (D)
2,3: Source 1 (S_1)
4: Gate 1 (G_1)

5: Gate 2 (G_2)
6,7: Source 2 (S_2)

PHILIPS Diodes

Fig. 1 — DO-35

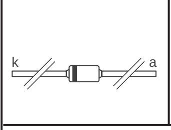

Fig. 2 — SOD-110

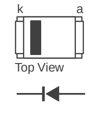

Fig. 3 — SOD-523

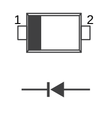

Fig. 4 — SOD-80C

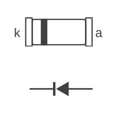

Fig. 5 — SOT-23

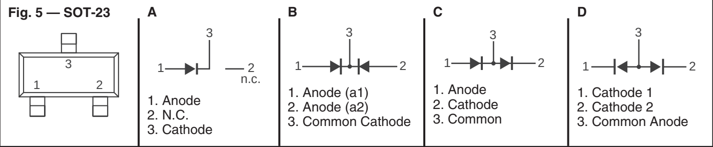

Fig. 6 — SOT-323

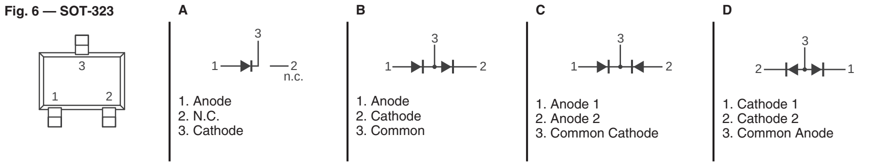

Fig. 7 — SOT-143B

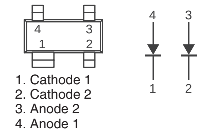

Fig. 8 — SOD-87

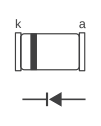

Fig. 9 — TO-220AB

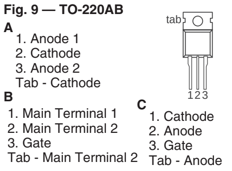

Fig. 10 — TO-220AC

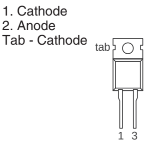

Fig. 11 — TO-220F *NEW!*

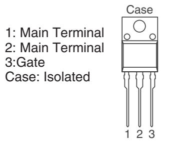

Fig. 12 — TO-247

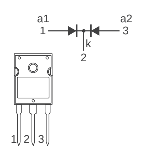

Fig. 13 — DO-34

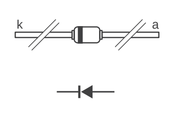

Fig. 14 — SOD-323

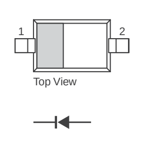

Fig. 15 — SOD-882

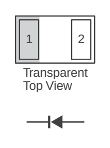

Fig. 16 — DO-41

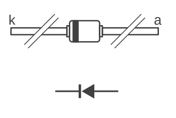

Fig. 17 — TO-92

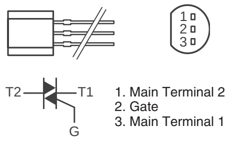

Fig. 18 — SOT-223

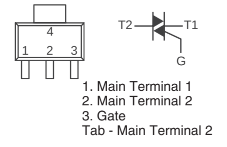

Fig. 19 — SOT-404

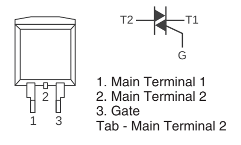

Fig. 20 — SOT-533

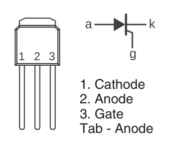

Fig. 21 — SOD-27

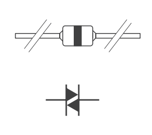

High Speed Diodes

Fig.	Package	Peak Reverse Voltage V_{RRM} (V)	Continuous Forward Current (mA)	Maximum Forward Voltage@ V_F (V)	Maximum Forward Voltage@ I_F (mA)	Maximum Reverse Recovery Time Trr (ns)	Power Dissi-pation Pd (mW)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Philips Part No.
1	DO-35	100	200	1	10	4	500	568-1360-1-ND	.04	.72	2.08	568-1360-2-ND	10,000	5.78/M	1N4148 T/R
			200	0.72	5	4	500	568-1361-1-ND	.06	1.10	3.19	568-1361-2-ND	10,000	8.33/M	1N4448 T/R
2	SOD-110	85	250	1	50	4	400	568-1599-1-ND	.25	4.69	13.00	568-1599-2-ND	3,000	50.00/M	BAS216 T/R
3	SOD-523	85	250	1	50	4	500	568-1603-1-ND	.27	5.06	14.04	568-1603-2-ND	3,000	54.00/M	BAS516 T/R
4	SOD-80C	75	200	1	100	4	500	568-1601-1-ND	.13	2.48	7.15	568-1601-2-ND	2,500	25.86/M	BAS32L T/R
		100	200	1	10	4	500	568-1749-1-ND	.08	1.58	4.55	568-1749-2-ND	2,500	16.46/M	PMLL4148L T/R
				0.72	5			568-1750-1-ND	.08	1.58	4.55	568-1750-2-ND		16.46/M	PMLL4448 T/R
5A	SOT-23	85	215	1	50	4	250	568-1596-1-ND	.08	1.58	4.55	568-1596-2-ND	3,000	16.45/M	BAS16 T/R
								568-1737-1-ND	.08	1.58	4.55	568-1737-2-ND		16.45/M	PMBD914 T/R
5B	SOT-23	60	125	1	100	4	250	568-1623-1-ND	.08	1.58	4.55	568-1623-2-ND	3,000	16.45/M	BAV74 T/R
		85			50			568-1622-1-ND	.08	1.58	4.55	568-1622-2-ND		16.45/M	BAV70 T/R
5C	SOT-23	85	125	1	50	4	250	568-1624-1-ND	.08	1.58	4.55	568-1624-2-ND	3,000	16.45/M	BAV99 T/R
			140		10	3		568-1619-1-ND	.19	3.60	10.40	568-1619-2-ND		37.60/M	BAV199 T/R
		100	125	1	50	4	250	568-1736-1-ND	.08	1.58	4.55	568-1736-2-ND	3,000	16.45/M	PMBD7000 T/R
5D	SOT-23	85	125	1	50	4	250	568-1626-1-ND	.08	1.58	4.55	568-1626-2-ND	3,000	16.45/M	BAW56 T/R
6A	SOT-323	85	175	1	50	4	200	568-1597-1-ND	.14	2.70	7.80	568-1597-2-ND	3,000	28.20/M	BAS16W
6B	SOT-323	85	130	1	50	4	200	568-1625-1-ND	.13	2.48	7.15	568-1625-2-ND	3,000	25.85/M	BAV99W T/R
7	SOT-143B	85	215	1	50	4	250	568-1600-1-ND	.26	4.95	14.30	568-1600-2-ND	3,000	51.70/M	BAS28 T/R
		60	150		200	6		568-1604-1-ND	.25	4.73	13.65	568-1604-2-ND		49.35/M	BAS56 T/R

General Purpose Diodes

Fig.	Package	Peak Reverse Voltage V_{RRM} (V)	Continue Forward Current I_F (mA)	Power Dissi-pation (mW)	Peak Repetitive Surge I_{FRM} (mA)	Diode Cap (pF)	Recovery Time (ns)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Philips Part No.
4	SOD-80C	250	250	400	625	5	50	568-1618-1-ND	.24	4.50	13.00	568-1618-2-ND	2,500	47.00/M	BAV103 T/R
5A	SOT-23		200	250				568-1598-1-ND	.08	1.58	4.55	568-1598-2-ND	3,000	16.45/M	BAS21 T/R
5C	SOT-23		125	250				568-1621-1-ND	.22	4.05	11.70	568-1621-2-ND	3,000	42.30/M	BAV23S T/R
7	SOT-143B		225	250				568-1620-1-ND	.27	5.06	14.04	568-1620-2-ND	3,000	54.00/M	BAV23 T/R

General Purpose Rectifiers

Fig.	Package	Peak Reverse Voltage V_{RRM} (V)	Average Rectified Forward Current I_F (A)	Maximum Instantaneous Forward Voltage V_F (V)	Maximum Instantaneous Forward Voltage I_F (A)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Philips Part No.
8	SOD-87	50	1.6	1.1	1	568-1178-1-ND	.27	5.51	15.12	568-1178-2-ND	75.60/M	PRLL4001 T/R

Ultra Fast Recovery Diodes

Fig.	Package	Peak Reverse Voltage V_{RRM} (V)	Average Forward Current I_F (A)	Maximum Forward Voltage @ V_F (V)	Maximum Forward Voltage @ I_F (A)	Maximum Reverse Recovery Time (ns)	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Philips Part No.
9A	TO-220AB	600	10	2	5	30	568-1781-ND	2.26	45.20	135.60	BYC10-600CT
		200	20	1.15	20	25	568-1667-5-ND*	.85	17.72	56.70	BYV32E-200
10	TO-220AC	200	8	1.05	8	25	568-1669-5-ND*	.69	12.98	38.95	BYW29E-200
12	TO-247	200	30	1.05	15	22	568-1668-5-ND*	1.44	28.88	86.63	BYV72EW-200

* Tube

(Continued)

Avalanche Rectifiers

Fig.	Package	Peak Reverse Voltage V_{RRM} (V)	Average Forward Current I_F (A)	Maximum Forward Voltage @ V_F (V)	I_F (A)	Maximum Reverse Recovery Time (ns)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Philips Part No.
8	SOD-87	1000	1.5	1.3	1	300	568-1664-1-ND	.42	8.20	23.10	568-1664-2-ND	2,000	99.75/M	BYD37M T/R
		100	2	0.98	1	25	568-1665-1-ND	.43	8.67	26.01	568-1665-2-ND	2,000	121.38/M	BYD77B T/R
		200	1.5	1.05	1	3000	568-1661-1-ND	.38	7.39	20.81	—	—	—	BYD17D T/R
		400	1.5	1.05	1	3000	568-1662-1-ND	.38	7.39	20.81	568-1662-2-ND	2,000	89.87/M	BYD17G T/R
		600	1.5	1.05	1	3000	568-1663-1-ND	.38	7.39	20.81	—	—	—	BYD17J T/R
		800	1.5	1.05	1	3000	568-1782-1-ND	.38	7.39	20.81	568-1782-2-ND	8,000	80.41/M	BYD17K T/3

Schottky Barrier Diodes

Fig.	Package	Reverse Voltage V_R (V)	Continuous Forward Current I_F (mA)	Forward Voltage Maximum @ V_F (VDC)	@ I_F (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part-No	Tape & Reel Size	Pricing	Philips Part No.
4	SOD-80C	30	200	320	1	568-1609-1-ND	.27	5.06	14.04	568-1609-2-ND	2,500	54.00/M	BAS85 T/R
5A	SOT-23	30	200	320	1	568-1610-1-ND	.14	2.70	7.80	568-1610-2-ND	3,000	28.20/M	BAT54 T/R
		70	70	410	1	568-1608-1-ND	.22	4.05	11.70	568-1608-2-ND	3,000	42.30/M	BAS70 T/R
5B	SOT-23	30	200	320	1	568-1612-1-ND	.16	3.04	8.78	568-1612-2-ND	3,000	31.73/M	BAT54C T/R
		70	70	410	1	568-1606-1-ND	.22	4.05	11.70	568-1606-2-ND	3,000	42.30/M	BAS70-05 T/R
5C	SOT-23	30	200	320	1	568-1614-1-ND	.16	3.04	8.78	568-1614-2-ND	3,000	31.73/M	BAT54S T/R
		40	120	380	1	568-1602-1-ND	.22	4.05	11.70	568-1602-2-ND	3,000	42.30/M	BAS40-04 T/R
		70	70	410	1	568-1605-1-ND	.22	4.05	11.70	568-1605-2-ND	3,000	42.30/M	BAS70-04 T/R
5D	SOT-23	30	200	320	1	568-1611-1-ND	.16	3.04	8.78	568-1611-2-ND	3,000	31.73/M	BAT54A T/R
		70	70	410	1	568-1607-1-ND	.22	4.05	11.70	568-1607-2-ND	3,000	42.30/M	BAS70-06 T/R
6B	SOT-323	30	200	320	1	568-1615-1-ND	.23	4.28	12.35	568-1615-2-ND	3,000	44.65/M	BAT54SW T/R
6C	SOT-323	30	200	320	1	568-1613-1-ND	.23	4.28	12.35	568-1613-2-ND	3,000	44.65/M	BAT54CW T/R
7	SOT-143B	30	200	320	1	568-1616-1-ND	.30	5.63	15.60	568-1616-2-ND	3,000	60.00/M	BAT74 T/R
8	SOD-87	20	1000	450	1	568-1179-1-ND	.40	8.00	24.00	568-1179-2-ND	2,000	112.00/M	PRLL5817 T/R
		40	1000	600	1	568-1180-1-ND	.40	8.00	24.00	568-1180-2-ND	2,000	112.00/M	PRLL5819 T/R
12	DO-34	30	200	320	1	568-1617-1-ND	.28	5.18	14.95	568-1617-2-ND	10,000	39.10/M	BAT85 T/R

Variable Capacitance Diodes

Fig.	Package	Reverse Voltage V_R (V)	CD @ 1MHz @V_R	(pF) Maximum	@ V_R	(pF) Maximum	Diode Series Resistance (Ω) Maximum	@ MHz	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Philips Part No.
3	SOD-523	6	2.3	11.2	0.2	33.5	0.6	100	568-1953-1-ND	.56	10.50	31.50	568-1953-2-ND	182.00/M	BB202 T/R
		30	28	1.055	0.5	17	3	470	568-1948-1-ND	.46	9.24	25.34	568-1948-2-ND	119.68/M	BB181 T/R
			28	2.225	1	21.26	0.75	470	568-1946-1-ND	.48	9.79	26.86	568-1946-2-ND	126.82/M	BB179 T/R
		32	25	2.92	2	34.2	0.75	470	568-1950-1-ND	.44	8.96	24.59	568-1950-2-ND	116.11/M	BB187 T/R
			28	2.25	1	20	0.75	470	568-1947-1-ND	.46	9.24	25.34	568-1947-2-ND	119.68/M	BB179B T/R
			28	2.754	1	42.35	0.8	100	568-1945-1-ND	.44	8.82	26.46	568-1945-2-ND	119.07/M	BB178 T/R
			28	2.89	1	62	1.2	100	568-1949-1-ND	.40	8.14	22.32	568-1949-2-ND	105.40/M	BB182 T/R
5A	SOT-23	30	25	6	3	32	0.7	200	568-1957-1-ND	.41	8.27	22.68	568-1957-2-ND	107.10/M	BBY40 T/R
			28	2	1	16.5	1.2	470	568-1956-1-ND	.48	9.65	26.46	568-1956-2-ND	124.95/M	BBY31 T/R
5B	SOT-23	15	7.5	29.7	1	86	0.4	100	568-1954-1-ND	.64	12.00	36.00	568-1954-2-ND	208.00/M	BB207 T/R
			7.5	29.7	1	102	0.5	100	568-1952-1-ND	.51	10.19	30.57	568-1952-2-ND	137.57/M	BB201 T/R
		18	4.5	14.8	1	74.2	0.6	100	568-1951-1-ND	.51	10.19	30.57	568-1951-2-ND	137.57/M	BB200 T/R
13	SOD-323	10	7.5	5.4	1	23.2	0.5	100	568-1955-1-ND	.60	11.25	33.75	568-1955-2-ND	195.00/M	BB208-03 T/R
		30	28	1.055	0.5	17	3	470	568-1944-1-ND	.41	8.27	22.68	568-1944-2-ND	107.10/M	BB131 T/R

PIN Diodes

Fig.	Package	Continuous Reverse Voltage Maximum (V)	Continuous Forward Current I_F (mA)	RD Maximum Ω @ 10mA	CD Maximum (pF) @ 1V	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Philips Part No.
3	SOD-523	30	100	0.9	0.9	568-1937-1-ND	.45	9.06	24.84	568-1937-2-ND	3,000	117.30/M	BAP65-02 T/R
		35	100	0.5	1.05	568-1912-1-ND	.47	9.52	26.10	568-1912-2-ND	3,000	123.25/M	BA891 T/R
		50	100	1.8	0.32	568-1926-1-ND	.42	8.40	23.04	568-1926-2-ND	3,000	108.80/M	BAP63-02 T/R
			50	5	0.55	568-1915-1-ND	.45	9.06	24.84	568-1915-2-ND	3,000	117.30/M	BAP50-02 T/R
			100	7	0.4	568-1940-1-ND	.46	9.19	25.20	568-1940-2-ND	3,000	119.00/M	BAP70-02 T/R
		60	50	10	0.55	568-1921-1-ND	.45	9.06	24.84	568-1921-2-ND	3,000	117.30/M	BAP51-02 T/R
			100	1.8	0.45	568-1913-1-ND	.45	9.06	24.84	568-1913-2-ND	3,000	117.30/M	BAP1321-02 T/R
		175	100	3.8	0.35	568-1929-1-ND	.45	9.06	24.84	568-1929-2-ND	3,000	117.30/M	BAP64-02 T/R
5A	SOT-23	35	100	.7 @ 5mA	1pF @ 20V	568-1943-1-ND	.39	7.86	21.56	568-1943-2-ND	3,000	101.83/M	BAT18 T/R
5B	SOT-23	50	50	5	0.6	568-1919-1-ND	.47	9.45	28.35	568-1919-2-ND	3,000	127.58/M	BAP50-05 T/R
			100	7	0.43	568-1942-1-ND	.55	11.00	33.00	568-1942-2-ND	3,000	148.50/M	BAP70-05 T/R
		175	100	3.8	0.37	568-1933-1-ND	.47	9.45	28.35	568-1933-2-ND	3,000	127.58/M	BAP64-05 T/R
5C	SOT-23	50	50	5	0.6	568-1917-1-ND	.47	9.45	28.35	568-1917-2-ND	3,000	127.58/M	BAP50-04 T/R
		175	100	3.8	0.37	568-1931-1-ND	.47	9.45	28.35	568-1931-2-ND	3,000	127.58/M	BAP64-04 T/R
5D	SOT-23	175	100	3.8	0.37	568-1935-1-ND	.47	9.45	28.35	568-1935-2-ND	3,000	127.58/M	BAP64-06 T/R
6B	SOT-323	50	50	5	0.6	568-1918-1-ND	.47	9.45	28.35	568-1918-2-ND	3,000	127.58/M	BAP50-04W T/R
		100	100	3.8	0.37	568-1932-1-ND	.47	9.45	28.35	568-1932-2-ND	3,000	127.58/M	BAP64-04W T/R
6C	SOT-323	30	100	0.9	0.9	568-1939-1-ND	.47	9.45	28.35	568-1939-2-ND	3,000	127.58/M	BAP65-05W T/R
		50	50	2.5	0.55	568-1923-1-ND	.47	9.45	28.35	568-1923-2-ND	3,000	127.58/M	BAP51-05W T/R
			50	10	0.6	568-1920-1-ND	.47	9.45	28.35	568-1920-2-ND	3,000	127.58/M	BAP50-05W T/R
			100	1.8	0.35pF @ 20V	568-1928-1-ND	.47	9.45	28.35	568-1928-2-ND	3,000	127.58/M	BAP63-05W T/R
		100	100	3.8	0.37	568-1934-1-ND	.47	9.45	28.35	568-1934-2-ND	3,000	127.58/M	BAP64-05W T/R
6D	SOT-323	100	100	3.8	0.37	568-1936-1-ND	.46	9.19	25.20	568-1936-2-ND	3,000	119.00/M	BAP64-06W T/R
13	SOD-323	30	100	0.9	0.9	568-1938-1-ND	.45	9.06	24.84	568-1938-2-ND	3,000	117.30/M	BAP65-03 T/R
		50	50	2.5	0.55	568-1922-1-ND	.45	9.06	24.84	568-1922-2-ND	3,000	117.30/M	BAP51-03 T/R
			50	5	0.55	568-1916-1-ND	.45	9.06	24.84	568-1916-2-ND	3,000	117.30/M	BAP50-03 T/R
			100	1.8	0.35	568-1927-1-ND	.41	8.27	22.68	568-1927-2-ND	3,000	107.10/M	BAP63-03 T/R
			100	7	0.4	568-1941-1-ND	.46	9.19	25.20	568-1941-2-ND	3,000	119.00/M	BAP70-03 T/R
		60	100	1.8	0.45	568-1914-1-ND	.45	9.06	24.84	568-1914-2-ND	3,000	117.30/M	BAP1321-03 T/R
		175	100	3.8	0.35	568-1930-1-ND	.45	9.06	24.84	568-1930-2-ND	3,000	117.30/M	BAP64-03 T/R
14	SOD-882	50	100	1.2	0.23	568-1925-1-ND	.46	9.19	25.20	568-1925-2-ND	10,000	105.00/M	BAP55L T/R
		60		2.5	0.4	568-1924-1-ND	.46	9.19	25.20	568-1924-2-ND	10,000	105.00/M	BAP51L T/R

(Continued)

Zener Voltage Regulators

Fig.	Package	Zener Voltage Minimum	Zener Voltage Maximum	Resistance Ω Maximum	@ I_Z (mA)	Reverse Current I_R (μA) Maximum	V_R (V)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Philips Part No.
1	DO-35	4.4	5	80	5	3	2	568-1670-1-ND	.14	2.70	7.80	568-1670-2-ND	10,000	20.40/M	BZX79-C4V7 T/R
		4.8	5.4	60	5	2	2	568-1671-1-ND	.14	2.70	7.80	568-1671-2-ND	10,000	20.40/M	BZX79-C5V1 T/R
		7.7	8.7	15	5	0.7	5	568-1672-1-ND	.14	2.70	7.80	568-1672-2-ND	10,000	20.40/M	BZX79-C8V2 T/R
3	SOD-523	15.2	16.8	40	5	0.05	11.2	568-1784-1-ND	.36	7.03	19.80	568-1784-2-ND	3,000	81.00/M	BZX585-C16 T/R
		17.1	18.9	45	5	0.05	12.6	568-1785-1-ND	.36	7.03	19.80	568-1785-2-ND	3,000	81.00/M	BZX585-C18 T/R
		19	21	55	5	0.05	14	568-1786-1-ND	.36	7.03	19.80	568-1786-2-ND	3,000	81.00/M	BZX585-C20 T/R
		20.9	23.1	55	5	0.05	15.4	568-1787-1-ND	.36	7.03	19.80	568-1787-2-ND	3,000	81.00/M	BZX585-C22 T/R
		22.8	25.2	70	5	0.05	16.8	568-1788-1-ND	.36	7.03	19.80	568-1788-2-ND	3,000	81.00/M	BZX585-C24 T/R
		25.65	28.35	80	2	0.05	18.9	568-1789-1-ND	.36	7.03	19.80	568-1789-2-ND	3,000	81.00/M	BZX585-C27 T/R
		28.5	31.5	80	2	0.05	21	568-1790-1-ND	.36	7.03	19.80	568-1790-2-ND	3,000	81.00/M	BZX585-C30 T/R
		31.35	34.65	80	2	0.05	23.1	568-1791-1-ND	.36	7.03	19.80	568-1791-2-ND	3,000	81.00/M	BZX585-C33 T/R
		34.2	37.8	90	2	0.05	25.2	568-1792-1-ND	.36	7.03	19.80	568-1792-2-ND	3,000	81.00/M	BZX585-C36 T/R
		37.05	40.95	130	2	0.05	27.3	568-1793-1-ND	.36	7.03	19.80	568-1793-2-ND	3,000	81.00/M	BZX585-C39 T/R
		40.85	45.15	150	2	0.05	30.1	568-1794-1-ND	.36	7.03	19.80	568-1794-2-ND	3,000	81.00/M	BZX585-C43 T/R
		44.65	49.35	170	2	0.05	32.9	568-1795-1-ND	.36	7.03	19.80	568-1795-2-ND	3,000	81.00/M	BZX585-C47 T/R
		48.45	53.55	180	2	0.05	35.7	568-1796-1-ND	.36	7.03	19.80	568-1796-2-ND	3,000	81.00/M	BZX585-C51 T/R
		53.2	58.8	200	2	0.05	39.2	568-1797-1-ND	.36	7.03	19.80	568-1797-2-ND	3,000	81.00/M	BZX585-C56 T/R
		58.9	65.1	215	2	0.05	43.4	568-1798-1-ND	.36	7.03	19.80	568-1798-2-ND	3,000	81.00/M	BZX585-C62 T/R
		64.6	71.4	240	2	0.05	47.6	568-1799-1-ND	.36	7.03	19.80	568-1799-2-ND	3,000	81.00/M	BZX585-C68 T/R
		71.25	78.75	255	2	0.05	52.5	568-1800-1-ND	.36	7.03	19.80	568-1800-2-ND	3,000	81.00/M	BZX585-C75 T/R
5A	SOT-23	9.4	10.6	20	5	0.2	7	568-1673-1-ND	.12	2.25	6.50	568-1673-2-ND	3,000	23.50/M	BZX84-C10 T/R
		11.4	12.7	25	5	0.1	8	568-1674-1-ND	.12	2.25	6.50	568-1674-2-ND	3,000	23.50/M	BZX84-C12 T/R
		3.1	3.5	95	5	5	1	568-1675-1-ND	.12	2.25	6.50	568-1675-2-ND	3,000	23.50/M	BZX84-C3V3 T/R
		4.4	5	80	5	3	2	568-1676-1-ND	.12	2.25	6.50	568-1676-2-ND	3,000	23.50/M	BZX84-C4V7 T/R
		4.8	5.4	60	5	2	2	568-1677-1-ND	.12	2.25	6.50	568-1677-2-ND	3,000	23.50/M	BZX84-C5V1 T/R
		5.2	6	40	5	1	2	568-1678-1-ND	.12	2.25	6.50	568-1678-2-ND	3,000	23.50/M	BZX84-C5V6 T/R
		5.8	6.6	10	5	3	4	568-1679-1-ND	.12	2.25	6.50	568-1679-2-ND	3,000	23.50/M	BZX84-C6V2 T/R
		6.4	7.2	15	5	2	4	568-1680-1-ND	.12	2.25	6.50	568-1680-2-ND	3,000	23.50/M	BZX84-C6V8 T/R
14	SOD-323	10.4	11.6	20	5	0.1	8	568-1783-1-ND	.32	5.91	16.38	568-1783-2-ND	3,000	63.00/M	BZX384-C11 T/R
15	SOD-882	15.2	16.8	40	5	0.05	11.2	568-1801-1-ND	.41	7.97	22.44	568-1801-2-ND	10,000	79.05/M	BZX884-C16 T/R
		17.1	18.9	45	5	0.05	12.6	568-1802-1-ND	.41	7.97	22.44	568-1802-2-ND	10,000	79.05/M	BZX884-C18 T/R
		19	21	55	5	0.05	14	568-1803-1-ND	.41	7.97	22.44	568-1803-2-ND	10,000	79.05/M	BZX884-C20 T/R
		20.9	23.1	55	5	0.05	15.4	568-1804-1-ND	.41	7.97	22.44	568-1804-2-ND	10,000	79.05/M	BZX884-C22 T/R
		22.8	25.2	70	5	0.05	16.8	568-1805-1-ND	.41	7.97	22.44	568-1805-2-ND	10,000	79.05/M	BZX884-C24 T/R
		25.65	28.35	80	2	0.05	18.9	568-1806-1-ND	.41	7.97	22.44	568-1806-2-ND	10,000	79.05/M	BZX884-C27 T/R
		28.5	31.5	80	2	0.05	21	568-1807-1-ND	.41	7.97	22.44	568-1807-2-ND	10,000	79.05/M	BZX884-C30 T/R
		31.35	34.65	80	2	0.05	23.1	568-1808-1-ND	.41	7.97	22.44	568-1808-2-ND	10,000	79.05/M	BZX884-C33 T/R
		34.2	37.8	90	2	0.05	25.2	568-1809-1-ND	.41	7.97	22.44	568-1809-2-ND	10,000	79.05/M	BZX884-C36 T/R
		37.05	40.95	130	2	0.05	27.3	568-1810-1-ND	.41	7.97	22.44	568-1810-2-ND	10,000	79.05/M	BZX884-C39 T/R
		40.85	.45.15	150	2	0.05	30.1	568-1811-1-ND	.41	7.97	22.44	568-1811-2-ND	10,000	79.05/M	BZX884-C43 T/R
		44.65	49.35	170	2	0.05	32.9	568-1812-1-ND	.41	7.97	22.44	568-1812-2-ND	10,000	79.05/M	BZX884-C47 T/R
		48.45	53.55	180	2	0.05	35.7	568-1813-1-ND	.41	7.97	22.44	568-1813-2-ND	10,000	79.05/M	BZX884-C51 T/R
		53.2	58.8	200	2	0.05	39.2	568-1814-1-ND	.41	7.97	22.44	568-1814-2-ND	10,000	79.05/M	BZX884-C56 T/R
		58.9	65.1	215	2	0.05	43.4	568-1815-1-ND	.41	7.97	22.44	568-1815-2-ND	10,000	79.05/M	BZX884-C62 T/R
		64.6	71.4	240	2	0.05	47.6	568-1816-1-ND	.41	7.97	22.44	568-1816-2-ND	10,000	79.05/M	BZX884-C68 T/R
		71.25	78.75	255	2	0.05	52.5	568-1817-1-ND	.41	7.97	22.44	568-1817-2-ND	10,000	79.05/M	BZX884-C75 T/R
16	DO-41	4.8	5.4	550	1	10	1	568-1362-1-ND	.18	3.38	9.75	568-1362-2-ND	5,000	30.00/M	1N4733A T/R
		11.4	12.7	700	0.25	5	9.1	568-1363-1-ND	.18	3.38	9.75	568-1363-2-ND	5,000	30.00/M	1N4742A T/R
		13.8	15.6	700	0.25	5	11.4	568-1364-1-ND	.18	3.38	9.75	568-1634-2-ND	5,000	42.30/M	1N4744A T/R

Triacs

Fig.	Package	V_{DRM} (V)	I_T (RMS) (A)	I_{GT} (mA)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Philips Part No.
9B	TO-220AB	600	16	5	568-1779-ND†	1.37	27.34	82.02	—	—	—	BTA216-600D
11	TO-220F	1000	8	35	568-2371-5-ND† ***NEW!***	1.22	25.31	81.00	—	—	—	BTA208X-1000B
17	TO-92	600	1	5	568-1770-ND†	.49	9.98	27.36	—	—	—	BT131-600D
				10	568-1771-ND†	.49	9.98	27.36	—	—	—	BT131-600E
		800	1	5	568-1772-ND†	.49	9.98	27.36	—	—	—	BT131-800D
				10	568-1773-ND†	.49	9.98	27.36	—	—	—	BT131-800E
18	SOT-223	600	1	35	568-1774-1-ND	.58	11.55	34.65	568-1774-2-ND	4,000	155.93/M	BT134W-600 / T3
		600		3	568-2193-1-ND ***NEW!***	.48	9.50	28.50	568-2193-2-ND	4,000	128.25/M	Z0103MN /T3
		800		3	568-2194-1-ND ***NEW!***	.48	9.50	28.50	568-2194-2-ND	4,000	128.25/M	Z0103NN /T3
		600		5	568-2195-1-ND ***NEW!***	.48	9.50	28.50	568-2195-2-ND	4,000	128.25/M	Z0107MN /T3
		800		5	568-2196-1-ND ***NEW!***	.48	9.50	28.50	568-2196-2-ND	4,000	128.25/M	Z0107NN /T3
		600	1	10	568-2197-1-ND ***NEW!***	.48	9.50	28.50	568-2197-2-ND	4,000	128.25/M	Z0109MN /T3
		800			568-2198-1-ND ***NEW!***	.48	9.50	28.50	568-2198-2-ND	4,000	128.25/M	Z0109NN /T3
19	SOT-404	800	25	50	568-1780-1-ND	1.87	37.31	111.92	568-1780-2-ND	800	805.79	BTA225B-800B / T3

† Bulk

Thyristors

Fig.	Package	V_{DRM} (V)	On State RMS Current I_T (RMS)	Peak Surge Current I_{TSM} (A)	Peak Gate Power P_{GM} (W)	Digi-Key Part No.	Pricing 1	Pricing 25	Pricing 100	Philips Part No.
9C	TO-220AB	500	12	100	5	568-1775-ND	.95	17.73	53.19	BT151-500C
		650				568-1776-ND	.95	17.73	53.19	BT151-650C
		800				568-1777-ND	.95	17.73	53.19	BT151-800C
20	SOT-533	500	12	100	5	568-1778-ND	.80	16.56	53.00	BT151U-500C

Diacs

Fig.	Package	$V_{(BO)}$ (V) Minimum	$V_{(BO)}$ (V) Maximum	$V_{(BO)}$ Symmetry (V) Maximum	Breakover Current I(BO) Maximum (μa)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 25	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Pricing 10,000	Philips Part No.
21	SOD-27	28	36	3.5	50	568-1767-1-ND	.72	13.43	40.28	568-1767-2-ND	223.75/M	BR100/03 T/R

International
IOR Rectifier

IGBT Transistors

The field of 3-phase 220V PWM motor drives has had mainly bipolars and power MOSFETs competing with one another. Power MOSFETs have been the choice of power electronic designers, especially at power levels below 5 hp because of the ease of drive and their rugged operations. Since FETs are voltage-controlled devices, they require only very small gate current pulses to turn them off and on. The average currents necessary for controlling the device state are often magnitudes lower than those required by bipolar devices of similar ratings. What's more, the FET's wide switching safe operating area (SOA), avalanche and dv/dt capabilities allow for snubberless operation, often a great advantage over bipolars. The $R_{DS(on)}$ of the FET does, however, rise exponentially with voltage rating. The IGBT combines the best of both worlds. It is a voltage-controlled device (like the MOSFET) allowing designers to greatly simplify their drive circuits. It is a rugged device with a square switching SOA and high peak current capability. In addition, it exhibits low forward voltage characteristics similar to bipolars, reducing the conduction loss. For those IGBT's without an internal reverse diode, designers can choose an external fast recovery diode to suit a specific application. All this indicates that the IGBT will be the device for applications requiring high current densities at high voltages coupled with switching frequencies up to 20 ~ 50 kHz.

High Efficiency WARP™ Speed IGBTs:

Optimized for 75-150kHz hard switching frequency. For use in UPS, welding, switch mode power supplies and PFC stages.

IGBT SIP Module:

The IGBT technology is the key to International Rectifier's advanced line of IMS (Insulated Metal Substrate) Power Modules. These modules are more efficient than comparable bipolar transistor modules, while at the same time having the simpler gate-drive requirements of the familiar power MOSFET. This superior technology has now been coupled to a state of the art materials system that maximizes power throughput with low thermal resistance. This package is highly suited to motor drive applications and where space is at a premium. **Features:** • Fully isolated printed circuit board mount package • Switching-loss rating includes all "tail" losses • HEXFRED soft ultrafast diodes • Optimized for medium operating (1 ~ 10kHz)

Fig.	Package	VCE	VCE (Sat) Max	IC @ TC +25°C	Pulse Current ICM	Max Power Dissipation	Delay Time (ns)		ETS Total Switching Loss @ IC		Digi-Key Part No.	Price Each		
							Td (on)	Td (off)	mJ	Amps		1	10	100
1	TO-220AB	430	1.2	20	—	125	0.9‡	6‡	—	—	IRGB14C40LPBF-ND†	3.75	2.50	2.00
		600	2.39	9.0	18	38	11	51	0.26	5.0	IRG4BC10K-ND	2.25	1.80	1.35
			2.39	9.0	18	38	11	51	0.26	5.0	IRG4BC10KPBF-ND†	3.15	2.03	1.58
			1.1	14	18	38	25	630	2.72	8.0	IRG4BC10S-ND	2.25	1.80	1.35
			1.1	14	18	38	25	630	2.72	8.0	IRG4BC10SPBF-ND†	3.15	2.03	1.58
			2.15	8.5	34	38	40	87	0.26	5.0	IRG4BC10U-ND	2.25	1.80	1.35
			2.15	8.5	34	38	40	87	0.26	5.0	IRG4BC10UPBF-ND†	3.00	2.00	1.60
			1.66	16	64	60	24	190	1.1	9.0	IRG4BC20F-ND	2.78	2.22	1.67
			1.66	16	64	60	24	190	1.1	9.0	IRG4BC20FPBF-ND†	3.33	2.22	1.78
			2.8	16	32	60	28	190	0.68	9.0	IRG4BC20K-ND	2.78	2.22	1.78
			2.8	16	32	60	28	190	0.68	9.0	IRG4BC20KPBF-ND†	3.33	2.22	1.78
			1.6	19	38	60	27	540	2.17	10.0	IRG4BC20SPBF-ND†	3.33	2.22	1.78
			2.27	13	52	60	20	190	.22	6.5	IRG4BC20UPBF-ND†	3.35	2.24	1.79
			2.16	13	52	60	22	110	0.14	6.5	IRG4BC20W-ND	1.44	1.23	1.03
			2.16	13	52	60	22	110	0.14	6.5	IRG4BC20WPBF-ND†	2.16	1.44	1.16
			1.99	31	120	100	20	290	2.50	17.0	IRG4BC30FPBF-ND†	4.47	2.98	2.39
			2.21	28	58	100	26	130	0.87	16.0	IRG4BC30K-ND	3.13	2.51	1.88
			2.21	28	58	100	26	130	0.87	16.0	IRG4BC30KPBF-ND†	3.75	2.51	2.01
			1.4	34	68	100	22	540	3.71	18.0	IRG4BC30SPBF-ND†	4.47	2.98	2.39
			2.52	23	92	100	20	180	.73	12.0	IRG4BC30UPBF-ND†	4.65	3.10	2.48
			2.70	23	92	100	24	150	0.26	12.0	IRG4BC30WPBF-ND†	4.86	3.24	2.60
			1.5	49	200	160	26	240	2.18	27.0	IRG4BC40FPBF-ND†	6.96	4.64	3.72
			2.10	42	84	160	30	140	1.9	25.0	IRG4BC40K-ND	5.36	4.29	3.22
			2.10	42	84	160	30	140	1.9	25.0	IRG4BC40KPBF-ND†	6.43	4.29	3.43
			2.15	40	160	160	30	220	1.40	20.0	IRG4BC40UPBF-ND†	7.14	4.76	3.81
			2.05	40	160	160	27	100	0.34	20.0	IRG4BC40W-ND	6.20	5.27	4.43
			2.05	40	160	160	27	100	0.34	20.0	IRG4BC40WPBF-ND†	9.30	6.20	4.96
			2.5	12	24	63	22	100	—	—	IRGB4B60KPBF-ND†	2.30	1.48	1.15
			2.2	13	26	90	25	215	—	—	IRGB6B60KPBF-ND†	1.93	1.24	.97
			2.2	28	56	167	23	140	—	—	IRGB8B60KPBF-ND†	3.37	2.17	1.69
			1.95	78	120	370	46	185	—	—	IRGB30B60K-ND	4.23	2.82	2.26
			1.95	78	120	370	46	185	—	—	IRGB30B60KPBF-ND†	4.23	2.82	2.26
2	TO-220AB	600	2.39	9.0	18	38	49	97	0.39	5.0	IRG4BC10KD-ND	2.80	2.24	1.68
			2.39	9.0	18	38	49	97	0.39	5.0	IRG4BC10KDPBF-ND†	3.36	2.24	1.80
			1.1	14	18	38	76	815	3.6	8.0	IRG4BC10SD-ND	2.50	2.00	1.50
			1.1	14	18	38	76	815	3.6	8.0	IRG4BC10SDPBF-ND†	3.00	2.00	1.60
			2.15	8.5	34	38	40	87	0.26	25.0	IRG4BC10UDPBF-ND†	3.00	2.00	1.60
			2.3	14	28	49	21	540	2.25	8.6	IRG4BC15MDPBF-ND†	3.66	2.44	1.96
			2.02	14	42	49	17	160	0.50	7.8	IRG4BC15UD-ND	4.08	2.32	1.89
			2.02	14	42	49	17	160	0.50	7.8	IRG4BC15UDPBF-ND†	3.66	2.44	1.96
			1.66	16	64	60	43	240	0.89	9.0	IRG4BC20FD-ND	3.80	3.04	2.17
			1.66	16	64	60	43	240	0.89	9.0	IRG4BC20FDPBF-ND†	4.56	3.04	2.44
			2.27	16	32	60	54	180	0.64	9.0	IRG4BC20KDPBF-ND†	3.25	2.17	1.74
			2.1	18	36	60	21	463	2.44	11.0	IRG4BC20MDPBF-ND†	3.90	2.60	2.08
			1.4	19	38	60	62	690	2.90	10.0	IRG4BC20SD-ND	3.70	2.97	2.23
			1.4	19	38	60	62	690	2.90	10.0	IRG4BC20SDPBF-ND†	4.44	2.97	2.37
			2.27	13	52	60	38	100	.49	6.5	IRG4BC20UD-ND	2.95	2.51	2.07
			2.27	13	52	60	38	100	.49	6.5	IRG4BC20UDPBF-ND†	4.42	2.95	2.36
			1.99	31	120	100	42	310	3.20	17.0	IRG4BC30FD-ND	4.86	4.14	3.41
			1.99	31	120	100	42	310	3.20	17.0	IRG4BC30FDPBF-ND†	7.29	4.86	3.89
			1.59	31	120	100	22	250	1.8	17.0	IRG4BC30FD1-ND	6.30	4.20	3.36
			1.59	31	120	100	22	250	1.8	17.0	IRG4BC30FD1PBF-ND†	6.30	4.20	3.36
			2.21	28	58	100	60	160	1.18	16.0	IRG4BC30KDPBF-ND†	4.79	3.20	2.56
			2.52	23	92	100	40	120	.89	12.0	IRG4BC30UDPBF-ND†	6.31	4.21	3.37
			2.5	11	22	63	22	100	—	—	IRGB4B60KD1PBF-ND†	3.24	2.09	1.62
			2.2	13	26	90	25	215	—	—	IRGB6B60KDPBF-ND†	3.58	2.39	1.92
			2.2	22	44	156	30	230	—	—	IRGB10B60KDPBF-ND†	4.46	2.98	2.39
			2.2	31	62	208	34	184	—	—	IRGB15B60KDPBF-ND†	6.94	4.63	3.71
			2.35	40	80	215	20	115	—	—	IRGB20B60PD1PBF-ND†	4.89	3.26	2.61
		1200	3.0	12	24	89	22	100	—	—	IRGB5B120KDPBF-ND†	2.89	1.93	1.55
1	TO-247AC	250	1.32	98	196	200	40	270	3.88	55.0	IRG4P254S-ND	11.47	9.18	6.89
			1.32	98	196	200	40	270	3.88	55.0	IRG4P254SPBF-ND†	11.47	8.49	6.89
			1.64	104	208	330	37	120	.170	30.0	IRGP4050-ND	7.59	4.69	4.21
			1.64	104	208	330	37	120	.170	30.0	IRGP4050PBF-ND†	11.63	8.61	6.98
		600	2.1	13	52	60	20	190	0.4	6.5	IRG4PC20U-ND	4.69	3.75	3.01
			2.1	13	52	60	20	190	0.4	6.5	IRG4PC20UPBF-ND†	5.63	3.75	3.00
			1.59	31	120	100	21	200	1.41	17.0	IRG4PC30F-ND	3.08	2.46	1.76
			1.59	31	120	100	21	200	1.41	17.0	IRG4PC30FPBF-ND†	3.69	2.46	1.97
			2.21	28	58	100	26	130	0.87	16.0	IRG4PC30K-ND	5.66	4.53	3.40
			2.21	28	58	100	26	130	0.87	16.0	IRG4PC30KPBF-ND†	6.79	4.53	3.63
			1.4	34	68	100	22	540	3.71	18.0	IRG4PC30S-ND	6.42	4.45	3.55

‡ µs † ***RoHS Compliant***

Fig. 1

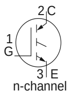

Fig. 2

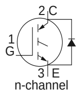

Fig. 3

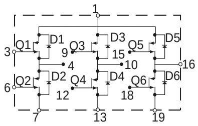

Fig. 4

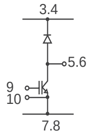

Fig. 5

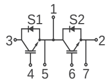

Fig. 6

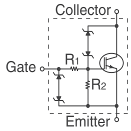

TO-220AB

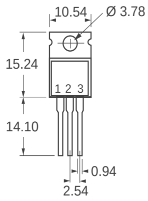

TO-247AC

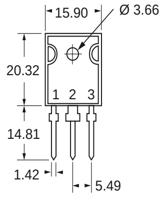

(Continued)

Fig.	Package	VCE	VCE (Sat) Max	IC @ TC +25°C	Pulse Current ICM	Max Power Dissipation	Delay Time (ns) Td (on)	Delay Time (ns) Td (off)	ETS Total Switching Loss @ IC mJ	ETS Total Switching Loss @ IC Amps	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
1	TO-247AC	600	1.4	34	68	100	22	540	3.71	18.0	IRG4PC30SPBF-ND†	6.79	4.53	3.63
			1.95	23	92	100	17	78	0.73	12.0	IRG4PC30U-ND	4.25	3.41	2.56
			1.95	23	92	100	17	78	0.73	12.0	IRG4PC30UPBF-ND†	4.25	3.15	2.56
			2.70	23	92	100	25	99	0.26	12.0	IRG4PC30WPBF-ND†	5.40	3.60	2.88
			1.5	49	200	160	26	240	2.18	27.0	IRG4PC40FPBF-ND†	6.50	4.81	3.90
			2.1	42	84	160	30	140	0.95	25.0	IRG4PC40K-ND	7.63	6.10	4.37
			2.1	42	84	160	30	140	0.95	25.0	IRG4PC40KPBF-ND†	7.63	5.65	4.58
			1.68	60	120	160	23	1000	12.00	31.0	IRG4PC40SPBF-ND†	5.52	4.09	3.31
			2.15	40	160	160	30	220	1.40	20.0	IRG4PC40UPBF-ND†	6.40	4.74	3.84
			2.05	40	160	160	27	100	0.34	20.0	IRG4PC40WPBF-ND†	4.81	3.57	2.89
			1.79	70	280	200	28	390	5.00	39.0	IRG4PC50FPBF-ND†	10.50	7.77	6.30
			2.2	52	104	200	38	160	1.12	30.0	IRG4PC50KPBF-ND†	11.99	8.87	7.20
			1.36	70	140	200	33	650	8.99	41.0	IRG4PC50SPBF-ND†	8.34	6.17	5.01
			2.00	55	220	200	31	230	1.60	27.0	IRG4PC50UPBF-ND†	9.45	7.00	5.67
			2.30	55	220	200	46	120	0.40	27.0	IRG4PC50W-ND	6.24	5.31	4.46
			2.30	55	220	200	46	120	0.40	27.0	IRG4PC50WPBF-ND†	7.80	5.78	4.68
			1.8	90	120	520	42	310	4.9	60.0	IRG4PC60FPBF-ND†	15.50	12.06	10.00
			1.8	90	120	520	42	310	4.9	60.0	IRG4PC60F-PPBF-ND†	15.50	12.06	10.00
			2.0	75	300	520	39	200	1.3	40.0	IRG4PC60UPBF-ND†	11.45	8.91	7.38
			2.0	75	300	520	39	200	1.3	40.0	IRG4PC60U-PPBF-ND†	13.96	10.87	9.00
		900	2.25	51	204	200	29	110	1.25	28.0	IRG4PF50WPBF-ND†	7.65	5.67	4.59
		1200	3.17	11	22	60	23	93	1.7	5.0	IRG4PH20KPBF-ND†	6.21	4.14	3.32
			3.10	20	40	100	28	200	1.56	10.0	IRG4PH30KPBF-ND†	6.00	4.00	3.20
			2.74	30	60	160	30	200	4.93	25.0	IRG4PH40K-ND	5.19	4.15	2.97
			2.74	30	60	160	30	200	4.93	25.0	IRG4PH40KPBF-ND†	5.19	3.84	3.12
			2.43	30	82	160	24	220	4.44	21.0	IRG4PH40U-ND	6.00	4.80	3.43
			2.43	30	82	160	24	220	4.44	21.0	IRG4PH40UPBF-ND†	6.00	4.44	3.60
			2.77	45	90	200	36	200	3.46	24.0	IRG4PH50K-ND	8.21	6.57	4.93
			2.77	45	90	200	36	200	3.46	24.0	IRG4PH50KPBF-ND†	8.21	6.08	4.93
			3.20	45	180	200	31	320	5.40	24.0	IRG4PH50U-ND	7.91	6.05	5.09
			3.20	45	180	200	31	320	5.40	24.0	IRG4PH50UPBF-ND†	8.09	6.30	5.22
			1.47	57	114	200	32	845	21.4	33.0	IRG4PH50S-ND	7.10	5.68	3.45
			1.47	57	114	200	32	845	21.4	33.0	IRG4PH50SPBF-ND†	7.10	5.26	4.26
2	TO-247AC	600	1.99	31	120	100	42	310	3.20	17.0	IRG4PC30FDPBF-ND†	6.68	4.94	4.01
			2.7	28	58	100	60	160	1.18	16.0	IRG4PC30KDPBF-ND†	5.38	3.98	3.23
			1.95	23	92	100	40	91	0.38	12.0	IRG4PC30UDPBF-ND†	6.95	5.15	4.17
			1.85	49	200	160	63	350	4.70	27.0	IRG4PC40FD-ND	5.74	4.88	4.02
			1.85	49	200	160	63	350	4.70	27.0	IRG4PC40FDPBF-ND†	7.17	5.31	4.31
			2.6	42	84	160	53	110	1.71	25.0	IRG4PC40KDPBF-ND†	8.72	6.46	5.24
			2.15	40	160	160	40	200	1.60	20.0	IRG4PC40UDPBF-ND†	10.50	7.77	6.30
			1.79	70	280	200	59	260	6.50	39.0	IRG4PC50FD-ND	10.28	8.74	7.20
			1.79	70	280	200	59	260	6.50	39.0	IRG4PC50FDPBF-ND†	11.57	9.00	7.46
			2.77	52	90	200	67	310	7.9	24.0	IRG4PC50KDPBF-ND†	11.34	8.82	7.31
			2.00	55	220	200	44	240	2.30	27.0	IRG4PC50UDPBF-ND†	12.87	10.01	8.30
			2.35	40	80	220	20	115	—	—	IRGP20B60PDPBF-ND†	6.31	4.67	3.79
			2.15	60	120	308	26	110	—	—	IRGP35B60PDPBF-ND†	9.95	7.36	5.97
			2.2	75	150	370	34	130	—	—	IRGP50B60PDPBF-ND†	13.05	10.15	8.41
			2.35	75	150	390	30	130	—	—	IRGP50B60PD1PBF-ND†	11.48	8.50	6.89
		900	2.25	51	204	200	71	150	3.97	28.0	IRG4PF50WD-ND	8.90	7.11	5.34
			2.25	51	204	200	71	150	3.97	28.0	IRG4PF50WDPBF-ND†	8.00	6.23	5.16
		1200	4.2	20	40	100	39	220	2.10	10.0	IRG4PH30KDPBF-ND†	7.63	5.65	4.58
			2.74	30	60	160	50	140	2.8	15.0	IRG4PH40KDPBF-ND†	9.25	6.85	5.55
			2.43	30	82	160	46	150	4.6	21.0	IRG4PH40UDPBF-ND†	6.90	5.11	4.15
			2.1	45	84	160	30	140	.95	25.0	IRG4PH50KDPBF-ND†	12.78	9.94	8.24
			3.20	45	180	200	46	240	6.38	24.0	IRG4PH50UDPBF-ND†	10.40	8.09	6.70
			3.17	11	22	60	50	100	0.92	5.0	IRG4PH20KDPBF-ND†	7.74	5.73	4.65
			4.85	40	120	300	50	204	1.275	20.0	IRGP20B120UD-E-ND	11.86	9.49	7.12
			4.85	40	120	300	50	204	1.275	20.0	IRGP20B120UD-EP-ND†	13.50	10.50	8.70
1	TO-247AD	1200	3.05	40	120	300	50	204	1.275	20.0	IRGP20B120U-E-ND	10.72	7.72	6.44
			3.05	40	120	300	50	204	1.275	20.0	IRGP20B120U-EP-ND†	10.72	7.94	6.44
2	TO-247AD	600	2.1	40	160	160	54	110	1.10	20.0	IRG4PC40UD-EPBF-ND†	10.50	7.77	6.30
			2.0	55	220	200	46	140	1.58	27.0	IRG4PC50UD-EPBF-ND†	15.21	11.83	9.81
			2.35	60	120	304	46	185	—	—	IRGP30B60KD-EP-ND†	10.11	7.49	6.07
		1200	3.1	41	82	160	46	97	3.73	21.0	IRG4PH40UD-EPBF-ND†	9.00	6.66	5.40
			2.43	41	82	160	22	100	6.22	21.0	IRG4PH40UD2-E-ND	8.58	6.35	5.25
			2.43	41	82	160	22	100	6.22	21.0	IRG4PH40UD2-EP-ND†	8.58	6.35	5.15
			2.28	60	120	300	50	210	2.5	25.0	IRGP30B120KD-E-ND	11.86	9.49	7.11
			2.28	60	120	300	50	210	2.5	25.0	IRGP30B120KD-EP-ND†	13.50	10.50	8.70
1	SUPER 247	600	1.83	85	200	350	34	251	2.77	60.0	IRG4PSC71KPBF-ND†	19.45	15.13	12.54
			2.00	85	200	350	34	56	2.41	60.0	IRG4PSC71UPBF-ND†	16.31	12.69	10.52
		1200	2.7	99	200	350	51	280	14.3	70.0	IRG4PSH71U-ND	22.99	18.39	13.80
			2.7	99	200	350	51	280	14.3	70.0	IRG4PSH71UPBF-ND†	20.69	16.09	13.34
			2.97	78	156	350	45	220	5.49	42.0	IRG4PSH71K-ND	22.31	17.85	13.39
			2.97	78	156	350	45	220	5.49	42.0	IRG4PSH71KPBF-ND†	20.08	15.62	12.95
			3.40	80	160	595	76	332	—	—	IRGPS40B120UPBF-ND†	16.49	12.83	10.63
2	SUPER 247	600	1.83	85	200	350	82	282	6.28	60.0	IRG4PSC71KD-ND	18.90	15.12	11.34
			1.83	85	200	350	82	282	6.28	60.0	IRG4PSC71KDPBF-ND†	15.12	12.10	10.59
			2.00	85	200	350	90	245	5.53	60.0	IRG4PSC71UD-ND	21.00	16.80	10.19
			2.00	85	200	350	90	245	5.53	60.0	IRG4PSC71UDPBF-ND†	16.80	13.44	11.76
		1200	2.7	99	200	350	46	250	18.2	70.0	IRG4PSH71UDPBF-ND†	26.45	21.16	18.52
			2.97	78	156	350	67	230	8.90	42.0	IRG4PSH71KD-ND	18.90	15.12	11.34

‡ µs † ***RoHS Compliant***

SUPER-247

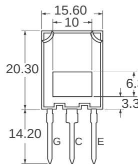

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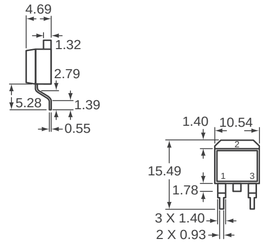

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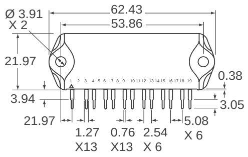

D-Pak

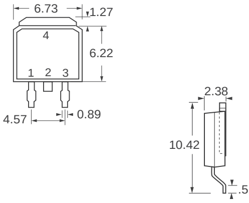

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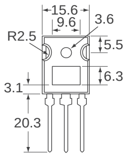

(Continued)

Fig.	Package	VCE	VCE (Sat) Max	IC @ TC +25°C	Pulse Current ICM	Max Power Dissipation	Delay Time (ns) Td (on)	Td (off)	ETS Total Switching Loss @ IC mJ	Amps	Digi-Key Part No.	Price Each 1	10	100
2	SUPER 247	1200	2.97	78	156	350	67	230	8.90	42.0	IRG4PSH71KDPBF-ND†	15.12	12.10	10.59
			3.40	80	160	595	76	332	—	—	IRGPS40B120UDP-ND†	20.39	15.86	13.14
			2.50	105	240	595	72	366	—	—	IRGPS60B120KDP-ND†	23.00	18.40	16.10
1	D2PAK	430	1.2	20	—	125	0.9	6	—	—	IRGS14C40L-ND	3.96	2.78	2.16
			1.2	20	—	125	0.9	6	—	—	IRGS14C40LPBF-ND†	3.96	2.64	2.12
		600	1.4	34	68	100	22	540	3.71	18.0	IRG4BC30S-S-ND	4.29	3.07	2.49
			1.4	34	68	100	22	540	3.71	18.0	IRG4BC30S-SPBF-ND†	4.59	3.07	2.45
			1.66	16	64	60	43	240	0.89	9.0	IRG4BC20F-S-ND	2.88	2.30	1.73
			1.66	16	64	60	43	240	0.89	9.0	IRG4BC20F-SPBF-ND†	3.45	2.30	1.84
			2.27	16	32	60	28	150	0.40	9.0	IRG4BC20K-S-ND	2.88	2.30	1.73
			12.16	13	52	60	22	110	0.14	6.5	IRG4BC20W-S-ND	3.00	2.40	1.80
			12.16	13	52	60	22	110	0.14	6.5	IRG4BC20W-SPBF-ND†	3.60	2.40	1.92
			1.99	31	120	100	42	310	3.20	17.0	IRG4BC30F-S-ND	3.89	3.12	2.34
			2.7	28	58	100	26	130	0.87	16.0	IRG4BC30K-SPBF-ND†	4.59	3.07	2.45
			2.05	40	160	160	27	100	0.34	20.0	IRG4BC40W-SPBF-ND†	6.99	4.67	3.73
		1200	3.17	11	22	60	23	93	0.89	5.0	IRG4BH20K-SPBF-ND†	3.66	2.44	1.96
2	D2PAK	600	1.10	14	18	38	76	815	3.60	8.0	IRG4BC10SD-S-ND	4.06	2.31	1.88
			1.10	14	18	38	76	815	3.60	8.0	IRG4BC10SD-SPBF-ND†	3.64	2.43	1.95
			2.02	14	42	49	17	160	0.50	7.8	IRG4BC15UD-S-ND	4.14	2.89	2.20
			2.02	14	42	49	17	160	0.50	7.8	IRG4BC15UD-SPBF-ND†	3.94	2.63	2.11
			1.82	22	44	66	26	194	1.11	12.0	IRG4RC20F-ND	3.56	2.02	1.65
			1.66	16	64	60	43	240	0.89	9.0	IRG4BC20FD-S-ND	3.94	3.15	2.37
			1.66	16	64	60	43	240	0.89	9.0	IRG4BC20FD-SPBF-ND†	4.73	3.15	2.52
			2.8	16	32	60	54	180	0.64	9.0	IRG4BC20KD-SPBF-ND†	4.80	3.20	2.56
			1.85	18	36	60	21	463	2.44	11.0	IRG4BC20MD-S-ND	4.80	3.36	2.62
			1.85	18	36	60	21	463	2.44	11.0	IRG4BC20MD-SPBF-ND†	4.80	3.20	2.56
			1.4	19	38	60	62	690	2.90	10.0	IRG4BC20SD-S-ND	4.00	3.20	2.40
			1.4	19	38	60	62	690	2.90	10.0	IRG4BC20SD-SPBF-ND†	4.80	3.20	2.56
			1.85	13	52	60	39	93	0.49	6.5	IRG4BC20UD-SPBF-ND†	4.80	3.20	2.56
			1.99	31	120	100	42	310	3.20	17.0	IRG4BC30FD-S-ND	6.23	4.98	3.74
			1.99	31	120	100	42	310	3.20	17.0	IRG4BC30FD-SPBF-ND†	7.47	4.98	3.99
			2.21	28	58	100	60	160	1.18	16.0	IRG4BC30KD-SPBF-ND†	5.21	3.48	2.78
3	IMS-2	600	1.93	5.7	11	23	23	125	0.26	3.0	CPV362M4K-ND	57.50	46.00	34.50
			2.2	7.2	22	23	42	120	0.35	3.9	CPV362M4U-ND	57.50	46.00	34.50
			1.63	16	50	36	37	400	0.85	8.7	CPV363M4F-ND	41.00	32.80	24.60
			2.2	11	22	36	55	107	0.50	6.0	CPV363M4K-ND	70.85	56.68	42.51
			2.2	13	40	36	43	140	0.45	6.8	CPV363M4U-ND	51.35	41.08	30.81
			1.5	27	80	63	42	220	1.8	15.0	CPV364M4F-ND	70.85	56.68	42.51
			2.3	24	48	63	50	170	1.28	13.0	CPV364M4K-ND	70.85	56.68	42.51
			2.1	20	60	63	41	140	0.74	10.0	CPV364M4U-ND	70.85	56.68	42.51
1	D-PAK	600	2.39	9.0	18	38	11	51	0.26	5.0	IRG4RC10KPBF-ND†	3.05	1.96	1.53
			2.39	9.0	18	38	49	97	0.39	5.0	IRG4RC10KD-ND	3.47	2.42	1.84
			1.7	8	18	38	25	630	2.72	8.0	IRG4RC10S-ND	2.18	1.75	1.31
			1.7	8	18	38	70	890	3.60	8.0	IRG4RC10SD-ND	2.39	1.92	1.44
			2.15	8.5	34	38	19	116	0.24	5.0	IRG4RC10U-ND	2.17	1.74	1.31
4	Dual INT-A-PAK	1200	2.4	250	500	1250	731	653	108	250	GA250TD120U-ND	337.34	269.88	202.41
5	Dual INT-A-PAK	250	1.3	400	800	1350	1250	841	45	400	GA400TD25S-ND	295.65	236.52	177.39
1	TO-220 FULLPAK	600	2.16	11.8	52	34	22	110	0.14	6.5	IRG4IBC20W-ND	3.56	2.85	2.14
			2.16	11.8	52	34	22	110	0.14	6.5	IRG4IBC20WPBF-ND†	4.28	2.85	2.28
			1.6	23.5	68	45	22	540	3.71	18.0	IRG4IBC30S-ND	4.44	3.55	2.67
			1.6	23.5	68	45	22	540	3.71	18.0	IRG4IBC30SPBF-ND†	5.33	3.55	2.84
			2.1	17	92	45	25	99	0.26	12.0	IRG4IBC30WPBF-ND†	5.42	3.62	2.89
2	TO-220 FULLPAK	600	2.15	6.8	27	25	40	87	0.26	5.0	IRG4IBC10UD-ND	4.73	3.78	2.84
			2.15	6.8	27	25	40	87	0.26	5.0	IRG4IBC10UDPBF-ND†	5.67	3.78	3.03
			2.0	14.3	64	34	43	240	0.89	9.0	IRG4IBC20FDPBF-ND†	4.71	3.14	2.52
			2.27	11.5	23	34	54	180	0.64	9.0	IRG4IBC20KD-ND	3.53	2.83	2.12
			2.27	11.5	23	34	54	180	0.64	9.0	IRG4IBC20KDPBF-ND†	4.24	2.83	2.27
			1.85	11.4	52	34	39	93	0.29	6.5	IRG4IBC20UD-ND	6.20	4.96	3.72
			1.85	11.4	52	34	39	93	0.29	6.5	IRG4IBC20UDPBF-ND†	7.44	4.96	3.97
			1.59	20.3	120	45	42	230	2.02	17.0	IRG4IBC30FD-ND	5.58	4.47	3.35
			1.59	20.3	120	45	42	230	2.02	17.0	IRG4IBC30FDPBF-ND†	6.70	4.47	3.58
			2.21	17	34	45	60	160	1.18	16.0	IRG4IBC30KD-ND	6.20	4.96	3.72
			2.21	17	34	45	60	160	1.18	16.0	IRG4IBC30KDPBF-ND†	7.44	4.96	3.97
			1.95	17	92	45	40	91	0.54	12.0	IRG4IBC30UDPBF-ND†	7.03	4.69	3.76
			2.2	11	22	38	25	215	—	—	IRGIB6B60KDPBF-ND†	4.33	2.89	2.32
			2.2	12	24	39	23	140	—	—	IRGIB7B60KDPBF-ND†	3.73	2.49	1.99
			2.1	16	32	44	25	180	—	—	IRGIB10B60KD1P-ND†	4.89	3.27	2.61
1	TO-262	600	2.5	40	160	160	27	100	0.34	20.0	IRG4BC40WLPBF-ND†	5.70	3.80	3.04
		1200	3.17	11	22	60	23	93	0.89	5.0	IRG4BH20K-LPBF-ND†	4.01	2.68	2.15
2	TO-262	600	1.10	14	18	38	76	815	3.6	8.0	IRG4BC10SD-L-ND	4.06	2.31	1.88
			1.10	14	18	38	76	815	3.6	8.0	IRG4BC10SD-LPBF-ND†	3.64	2.43	1.95
			2.02	14	42	49	17	160	0.50	7.8	IRG4BC15UD-L-ND	4.14	2.89	2.20
			2.02	14	42	49	17	160	0.50	7.8	IRG4BC15UD-LPBF-ND†	3.94	2.63	2.11
			2.5	11	22	63	22	100	—	—	IRGSL4B60KD1PBF-ND†	2.85	1.84	1.43
			2.2	13	26	90	25	215	—	—	IRGSL6B60KDPBF-ND†	3.09	2.06	1.65
6	TO-262AA	430	1.4	20	20	125	900	6000	—	—	IRGSL14C40LPBF-ND†	4.84	3.23	2.59
1	SOT-227	600	1.1	200	400	630	78	890	18.4	100	GA200SA60S-ND	50.06	41.68	36.54
			1.6	200	400	500	54	130	4.46	100	GA200SA60U-ND	39.16	32.60	28.58

‡ µs † *RoHS Compliant*

Dual-INT-A-PAK

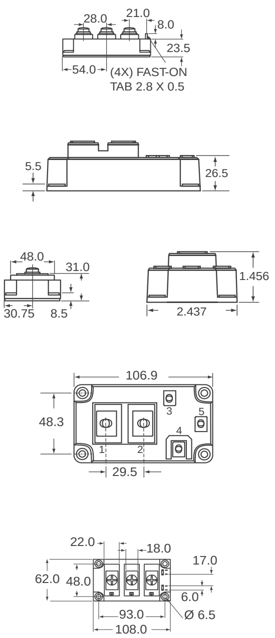

TO-220 Full Pak

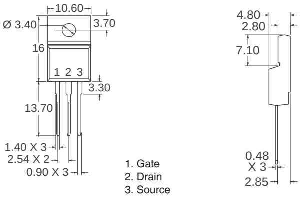

TO-262, TO-262AA

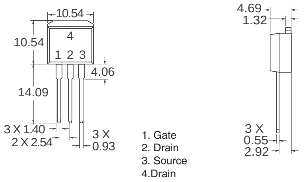

SOT-227

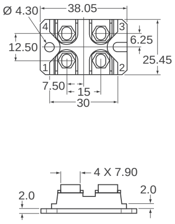

C

FAIRCHILD
SEMICONDUCTOR®

Surface Mount and Through-Hole Power MOSFETS

Fig.	Type	V_{DS} (V)	R_{DS} (on) Max (Ω)			ID (A)	PD (W)	Config. or Pkg.	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing
			V_{GS} @ 10V	V_{GS} @ 4.5V	V_{GS} @ 2.7V					1	10	100		
SuperSOT™-3 High Drain Current														
1	N-Chan.	30	—	0.125	—	1.6	0.5	Single	NDS355NCT-ND	.59	4.43	33.21	NDS355NTR-ND	575.64/3,000
1	P-Chan.*	-20	—	0.5	—	-0.85	0.5	Single	NDS352PCT-ND	.67	5.04	37.80	—	—
		-20	—	0.3	—	-1.1	0.5	Single	NDS356PCT-ND	.80	6.68	53.40	—	—
2	N-Chan.	30	—	0.065	.082†	2.2	0.5	Single	FDN337NCT-ND	.58	4.66	34.92	FDN337NTR-ND	471.42/3,000
		30	0.16	0.25	—	1.2	0.5	Single	NDS351ANCT-ND	.42	3.36	25.20	NDS351ANTR-ND	340.20/3,000
		20	—	0.16	0.21	1.3	0.5	Single	NDS331NCT-ND	.54	4.32	32.40	NDS331NTR-ND	437.40/3,000
		20	—	0.11	0.14	1.7	0.5	Single	NDS335NCT-ND	.56	4.46	33.48	NDS335NTR-ND	451.98/3,000
		30	0.085	0.125	—	1.7	0.5	Single	NDS355ANCT-ND	.48	3.64	27.27	NDS355ANTR-ND	472.68/3,000
2	P-Chan.*	-20	—	0.115	0.155†	-1.6	0.5	Single	FDN338PCT-ND	.52	4.18	31.32	FDN338PTR-ND	422.82/3,000
		-20	—	0.3	0.41	-1.0	0.5	Single	NDS332PCT-ND	.53	4.27	32.04	NDS332PTR-ND	432.54/3,000
		-30	0.2	0.3	—	-1.1	0.5	Single	NDS356APCT-ND	.54	4.07	30.51	NDS356APTR-ND	528.84/3,000
		-30	0.3	0.5	—	-0.9	0.5	Single	NDS352APCT-ND	.46	3.65	27.36	NDS352APTR-ND	425.25/3,000
SOT-23 (TO236AB)														
1	N-Chan.	25	—	0.45	0.6	0.68	0.35	Single	FDV303NCT-ND	.47	3.78	25.92	FDV303NTR-ND	367.20/3,000
		25	—	4.0	5.0	0.22	0.35	Single	FDV301NCT-ND	.39	3.08	21.65	FDV301NTR-ND	265.68/3,000
		50	3.5	6.0	—	0.22	0.36	Single	BSS138CT-ND	.36	2.70	18.72	BSS138TR-ND	216.00/3,000
		60	7.5	—	—	0.115	0.2	Single	2N7002NCT-ND	.25	1.89	13.10	2N7002NTR-ND	151.20/3,000
		60	2	—	—	0.28	0.3	Single	NDS7002ACT-ND	.39	3.15	21.60	NDS7002ATR-ND	306.00/3,000
		100	6	—	—	0.17	0.36	Single	BSS123NCT-ND	.36	2.70	18.72	BSS123NTR-ND	216.00/3,000
1	P-Chan.*	-25	—	1.1	1.5	-0.46	0.35	Single	FDV304PCT-ND	.52	4.18	31.32	FDV304PTR-ND	422.82/3,000
		-25	—	10.0	13.0	-0.12	0.35	Single	FDV302PCT-ND	.35	2.70	19.01	FDV302PTR-ND	233.28/3,000
		-50	10	—	—	-0.13	0.3	Single	BSS84CT-ND	.34	2.52	17.47	BSS84TR-ND	201.60/3,000
		-60	5	7.5	—	-0.18	0.36	Single	NDS0605CT-ND	.40	3.21	22.03	NDS0605TR-ND	312.12/3,000
		-60	10	—	—	-0.12	0.36	Single	NDS0610CT-ND	.37	2.93	20.59	NDS0610TR-ND	252.72/3,000
SuperSOT™-6 (SOT-6)														
3	N-Chan.	30	0.06	0.09	—	3.2	1.6	Single	NDC651NCT-ND	.78	5.87	44.01	NDC651NTR-ND	762.84/3,000
4		50	2	—	—	0.35	0.5	Dual	NDC7002NCT-ND	.57	4.25	31.86	NDC7002NTR-ND	552.24/3,000
3	P-Chan.*	-30	0.11	0.18	—	-2.4	1.6	Single	NDC652PCT-ND	.81	6.05	45.36	NDC652PTR-ND	786.24/3,000
4		-50	5	—	—	-0.22	0.5	Dual	NDC7003PCT-ND	.59	4.43	33.21	NDC7003PTR-ND	575.64/3,000
4	N-Chan.	50	2	—	—	0.35	0.5	Compl.	NDC7001CCT-ND	.67	5.00	37.53	NDC7001CTR-ND	650.52/3,000
	P-Chan.*	-50	5	—	—	-0.22	0.5							
4A	N-Chan.	100	0.07	—	—	3.7	2	Single	FDC3616NCT-ND ***NEW!***	1.08	9.00	72.00	FDC3616NTR-ND ***NEW!***	1404.00/3,000
	P-Chan.	-20	—	0.02	—	-8	2	Single	FDC697PCT-ND ***NEW!***	1.33	10.60	79.50	FDC697PTR-ND ***NEW!***	2035.20/3,000
	N-Chan.	30	0.009	0.012	—	12.5	2	Single	FDC796NCT-ND ***NEW!***	1.32	11.00	88.00	FDC796NTR-ND ***NEW!***	1716.00/3,000
	P-Chan.	-20	—	0.022	—	-7	2	Single	FDC699PCT-ND ***NEW!***	1.14	9.50	76.00	FDC699PTR-ND ***NEW!***	1482.00/3,000
4B	N-Chan.	20	—	0.02	—	7.3	1.8	Dual	FDC6000NZCT-ND ***NEW!***	.96	7.17	53.78	FDC6000NZTR-ND ***NEW!***	932.10/3,000
	P-Chan.	-20	—	0.044	—	-5	1.8	Dual	FDC6036PCT-ND ***NEW!***	1.11	9.25	74.00	FDC6036PTR-ND ***NEW!***	1443.00/3,000
4B	N-Chan.	20	—	0.027	—	5.9	1.8	Dual	FDC6020CCT-ND ***NEW!***	.96	8.00	64.00	FDC6020CTR-ND ***NEW!***	1248.00/3,000
	P-Chan.	-20	—	0.055	—	-4.2	1.8							
4C	P-Chan.	-20	—	0.15	—	-2.2	.96	Mosfet w/ Diode	FDC6392SCT-ND ***NEW!***	.75	6.25	50.00	FDC6392STR-ND ***NEW!***	975.00/3,000
Power MOSFET (SO-8)														
7A	N-Chan.	20	—	0.0035	—	23	3.0	Single	FDS6064N7CT-ND ***NEW!***	1.53	12.20	91.50	FDS6064N7TR-ND ***NEW!***	1952.00/2,500
7A		20	—	0.0035	—	23	3.0	Single	FDS6162N7CT-ND ***NEW!***	1.74	13.92	104.40	FDS6162N7TR-ND ***NEW!***	2227.20/2,500
7B		20	0.004	—	—	23	3.0	Single	FDS6064N3CT-ND ***NEW!***	1.53	12.20	91.50	FDS6064N3TR-ND ***NEW!***	1952.00/2,500
7B		20	—	0.0045	—	21	3.0	Single	FDS6162N3CT-ND ***NEW!***	1.53	12.20	91.50	FDS6162N3TR-ND ***NEW!***	1952.00/2,500
6		30	0.015	0.02	—	10.0	2.5	Single	NDS8410CT-ND	1.35	11.25	90.00	—	—
7	N-Chan.	30	0.037	0.055	—	5.3	2.0	Dual	NDS8936CT-ND	1.27	10.59	84.72	NDS8936TR-ND	1376.70/2,500
5		30	0.028	0.042	—	7.3	2.5	Single	NDS9410ACT-ND	.85	6.37	47.79	NDS9410ATR-ND	690.30/2,500
7		30	0.05	0.08	—	5.0	2.0	Dual	NDS9936CT-ND	1.01	8.40	67.20	NDS9936TR-ND	1092.00/2,500
7		30	0.08	0.11	—	3.7	2.0	Dual	NDS9956ACT-ND	.90	7.47	59.76	NDS9956ATR-ND	971.10/2,500
6		30	0.008	0.010	—	13.0	2.5	Single	FDS6670ACT-ND	1.52	12.19	91.44	FDS6670ATR-ND	1950.72/2,500
6	N-Chan.	30	0.0095	0.013	—	12.5	2.5	Single	FDS6680ACT-ND	1.24	10.35	82.80	FDS6680ATR-ND	1345.50/2,500
7A		30	0.005	0.007	—	19	3.0	Single	FDS7060N7CT-ND ***NEW!***	1.39	11.12	83.40	FDS7060N7TR-ND ***NEW!***	1779.20/2,500
7A		30	—	0.007	—	16.5	3.0	Single	FDS7064N7CT-ND ***NEW!***	1.33	11.10	88.80	FDS7064N7TR-ND ***NEW!***	1443.00/2,500
7A		30	0.0045	0.0055	—	23	3.0	Single	FDS7066N7CT-ND ***NEW!***	1.75	14.00	105.00	FDS7066N7TR-ND ***NEW!***	2240.00/2,500
7A		30	0.003	0.004	—	23	3.0	Single	FDS7088N7CT-ND ***NEW!***	1.75	14.00	105.00	FDS7088N7TR-ND ***NEW!***	2240.00/2,500
7B	N-Chan.	30	—	0.0075	—	16	3.0	Single	FDS7064NCT-ND ***NEW!***	1.33	11.10	88.80	FDS7064NTR-ND ***NEW!***	1443.00/2,500
7B		30	0.008	0.0095	—	16	3.13	Single	FDS7064SN3CT-ND ***NEW!***	1.20	10.00	80.00	FDS7064SN3TR-ND ***NEW!***	1300.00/2,500

* VGS are negative for P-Channel devices. † VGS @ 2.5V ‡VGS @ 5V

(Continued)

Fig. 1 — SOT-23 (TO-236AB)

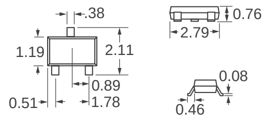

Fig. 2 — SuperSOT™-3

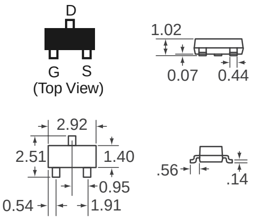

SuperSOT™-6

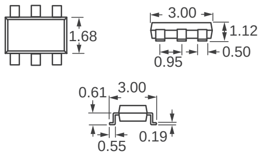

Fig. 3

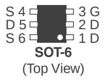

Fig. 4

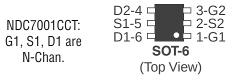

Fig. 4A

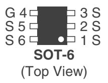

Fig. 4B

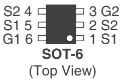

Fig. 4C

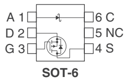

Fig. 5

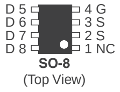

Fig. 6

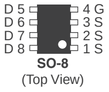

Fig. 7

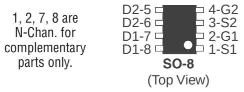

Fig. 7A

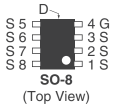

Fig. 7B

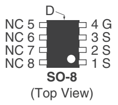

Fig. 7C

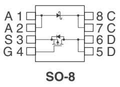

FAIRCHILD SEMICONDUCTOR®

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Fig.	Type	V_{DS} (V)	R_{DS} (on) Max (Ω)			ID (A)	PD (W)	Config. or Pkg.	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing
			V_{GS} @ 10V	V_{GS} @ 4.5V	V_{GS} @ 2.7V					1	10	100		
7B	N-Chan.	30	0.0048	0.006	—	19	3.0	Single	FDS7066ASN3CT-ND ***NEW!***	1.34	11.15	89.20	FDS7066ASN3TR-ND ***NEW!***	1449.50/2,500
7B		30	0.006	0.008	—	17.5	3.0	Single	FDS7082N3CT-ND ***NEW!***	1.20	10.00	80.00	FDS7082N3TR-ND ***NEW!***	1300.00/2,500
7B		30	0.004	0.005	—	21	3.0	Single	FDS7088N3CT-ND ***NEW!***	2.25	18.00	135.00	FDS7088N3TR-ND ***NEW!***	2880.00/2,500
7B		30	0.009	0.012	—	14	3.0	Single	FDS7096N3CT-ND ***NEW!***	1.11	9.25	74.00	FDS7096N3TR-ND ***NEW!***	1202.50/2,500
7B		30	0.0045	0.0056	—	20	3.0	Single	FDS7288N3CT-ND ***NEW!***	1.49	11.92	89.40	FDS7288N3TR-ND ***NEW!***	1907.20/2,500
7C	N-Chan.	30	0.035	0.055	—	6	2	Mosfet w/ Diode	FDFS6N303CT-ND ***NEW!***	.88	6.60	49.50	FDFS6N303TR-ND ***NEW!***	715.00/2,500
7A	N-Chan.	40	0.007	—	—	15.3	3.0	Single	FDS4070N7CT-ND ***NEW!***	1.53	12.20	91.50	FDS4070N7TR-ND ***NEW!***	1952.00/2,500
7A		40	0.009	0.011	—	12.4	3.0	Single	FDS4072N7CT-ND ***NEW!***	1.45	11.58	86.85	FDS4072N7TR-ND ***NEW!***	1852.80/2,500
7A		40	0.01	—	—	13	3.9	Single	FDS4080N7CT-ND ***NEW!***	1.45	11.58	86.85	FDS4080N7TR-ND ***NEW!***	1852.80/2,500
7B		40	0.0075	—	—	15.3	3.0	Single	FDS4070N3CT-ND ***NEW!***	1.53	12.20	91.50	FDS4070N3TR-ND ***NEW!***	1952.00/2,500
7B		40	0.01	0.012	—	12.4	3.0	Single	FDS4072N3CT-ND ***NEW!***	1.44	11.50	86.25	FDS4072N3TR-ND ***NEW!***	1840.00/2,500
7B	N-Chan.	40	0.015	—	—	13	3.0	Single	FDS4080N3CT-ND ***NEW!***	1.44	11.50	86.25	FDS4080N3TR-ND ***NEW!***	1840.00/2,500
7		50	0.3	0.5	—	2.0	2.0	Dual	NDS9959CT-ND	.82	6.87	54.96	NDS9959TR-ND	893.10/2,500
7		50	0.130	—	0.200	3.0	2.0	Dual	SI9955DYCT-ND	.99	7.42	55.62	SI9955DYTR-ND	803.40/2,500
7A		60	0.012	—	—	10.6	3.0	Single	FDS5170N7CT-ND ***NEW!***	1.66	13.28	99.60	FDS5170N7TR-ND ***NEW!***	2124.80/2,500
7A		150	0.078	—	—	4.1	3.0	Single	FDS2070N7CT-ND ***NEW!***	1.88	15.00	112.50	FDS2070N7TR-ND ***NEW!***	2400.00/2,500
7B	N-Chan.	150	0.078	—	—	4.1	3.0	Single	FDS2070N3CT-ND ***NEW!***	1.70	13.60	102.00	FDS2070N3TR-ND ***NEW!***	2176.00/2,500
7A		100	0.026	—	—	6.7	3.0	Single	FDS3170N7CT-ND ***NEW!***	1.88	15.00	112.50	FDS3170N7TR-ND ***NEW!***	2400.00/2,500
7A		200	0.128	—	—	3.0	3.0	Single	FDS2170N7CT-ND ***NEW!***	1.88	15.00	112.50	FDS2170N7TR-ND ***NEW!***	2400.00/2,500
7B		200	0.128	—	—	3.0	3.0	Single	FDS2170N3CT-ND ***NEW!***	1.80	14.40	108.00	FDS2170N3TR-ND ***NEW!***	2304.00/2,500
7		60	0.1	0.2	—	3.5	2.0	Dual	NDS9945CT-ND	1.26	10.50	84.00	—	—
6	P-Chan.	-20	—	0.035	0.05	-6.7	2.5	Single	NDS8434CT-ND	1.35	11.25	90.00	NDS8434TR-ND	1462.50/2,500
5		-20	0.1	0.16	—	-4.3	2.5	Single	NDS9405CT-ND	1.62	12.98	97.35	NDS9405TR-ND	2076.80/2,500
7C	P-Chan.	-20	0.125	0.2	—	-3.3	1.6	Mosfet w/	FDFS2P102ACT-ND ***NEW!***	.64	4.80	36.00	FDFS2P102ATR-ND ***NEW!***	520.00/2,500
7C		-20	0.125	0.2	—	-3.3	1.6	Diode	FDFS2P102CT-ND ***NEW!***	.88	6.60	49.50	FDFS2P102TR-ND ***NEW!***	715.00/2,500
7	P-Chan.	-20	0.1	0.19	—	-3.5	2.0	Dual	NDS9947CT-ND	1.38	11.52	92.16	NDS9947TR-ND	1497.60/2,500
6		-30	0.06	0.115	—	-5.3	2.5	Single	NDS9430CT-ND	1.12	9.36	74.88	NDS9430TR-ND	1216.80/2,500
7C	P-Chan.	-30	0.059	0.092	—	-5.3	1.6	Mosfet w/	FDFS2P103ACT-ND ***NEW!***	.88	6.60	49.50	FDFS2P103ATR-ND ***NEW!***	715.00/2,500
7C		-30	0.059	0.092	—	-5.3	1.6	Diode	FDFS2P103CT-ND ***NEW!***	.88	6.60	49.50	FDFS2P103TR-ND ***NEW!***	715.00/2,500
7	P-Chan.	-30	0.065	0.1	—	-4.0	2.0	Dual	NDS8947CT-ND	1.50	11.98	89.82	NDS8947TR-ND	1916.16/2,500
5	P-Chan.	-30	0.13	0.2	—	-3.6	2.5	Single	NDS9400ACT-ND	1.17	9.73	77.80	NDS9400ATR-ND	1264.25/2,500
6		-30	0.05	0.09	—	-5.3	2.5	Single	NDS9435ACT-ND	.90	6.73	50.49	NDS9435ATR-ND	729.30/2,500
7		-30	0.13	0.2	—	-2.9	2.0	Dual	NDS9953ACT-ND	1.16	9.69	77.52	NDS9953ATR-ND	1259.70/2,500
7B		-30	0.0075	0.0115	—	-16	3.13	Single	FDS7079ZN3CT-ND ***NEW!***	1.40	11.22	84.15	FDS7079ZN3TR-ND ***NEW!***	1795.20/2,500
6		-60	0.15	0.24	—	-3.3	2.5	Single	NDS9407CT-ND	1.01	8.43	67.44	NDS9407TR-ND	1095.90/2,500
7		-60	0.25	0.5	—	-2.3	2.0	Dual	NDS9948CT-ND	1.16	9.69	77.52	NDS9948TR-ND	1259.70/2,500
7C	P-Chan.	-60	0.11	0.14	—	-3	1.6	Mosfet w/ Diode	FDFS2P106ACT-ND ***NEW!***	1.47	12.25	98.00	FDFS2P106ATR-ND ***NEW!***	1592.50/2,500
PowerSOT (SOT-223)														
8	N-Chan.	30	0.037	0.055	—	7.1	3.0	Single	NDT451ANCT-ND	.81	6.78	54.24	NDT451ANTR-ND	881.40/2,500
		30	0.028	0.042	—	8.0	3.0	Single	NDT453NCT-ND	1.17	9.78	78.20	NDT453NTR-ND	1270.75/2,500
		60	0.12	—	—	3.7	3.0	Single	NDT3055CT-ND	.72	5.40	40.50	NDT3055TR-ND	585.00/2,500
		60	—	0.15	—	3.5	3.0	Single	NDT3055LCT-ND	.75	5.65	42.39	NDT3055LTR-ND	612.30/2,500
8	P-Chan.*	-30	0.035	0.05	—	-7.3	3.0	Single	NDT456PCT-ND	1.53	12.22	91.62	NDT456PTR-ND	1954.56/2,500
		-30	0.065	0.1	—	-5.0	3.0	Single	NDT452APCT-ND	.92	7.65	61.20	NDT452APTR-ND	994.50/2,500
		-60	0.3	0.5	—	-2.5	3.0	Single	NDT2955CT-ND	.72	5.44	40.77	NDT2955TR-ND	588.90/2,500
TO-252														
9	N-Chan.	30	0.008	0.010	—	66.0	3.2	Single	FDD6670ACT-ND	1.45	12.09	96.72	FDD6670ATR-ND	1571.70/2,500
Power MOSFET (SO-8) (Complementary N-P Channel 3 Phase Brushless Motor Driver)														
7	N-Chan.	20	0.125	0.25	—	3.0	2.0	Compl.	NDS9943CT-ND	1.51	12.10	90.75	—	—
	P-Chan.*	-20	0.16	0.3	—	-2.8	2.0							
7	N-Chan.	20	0.1	0.15	—	3.5	2.0	Compl.	NDS9958CT-ND	1.35	11.28	90.20	NDS9958TR-ND	1465.75/2,500
	P-Chan.*	-20	0.1	0.19	—	-3.0	2.0							
7	N-Chan.	30	0.037	0.055	—	5.3	2.0	Compl.	NDS8958CT-ND	1.33	10.66	79.92	NDS8958TR-ND	1704.96/2,500
	P-Chan.*	-30	0.065	0.10	—	-4.0	2.0							
7	N-Chan.	30	0.08	0.11	—	4.0	2.0	Compl.	NDS9952ACT-ND	.98	8.13	65.04	NDS9952ATR-ND	1056.90/2,500
	P-Chan.*	-30	0.13	0.2	—	-2.9	2.0							
Power MOSFET (SO-8) (Complementary MOSFETS Half Bridge)														
10	N-Chan.	30	0.037	0.055	—	6.3	2.5	Compl.	NDS8858HCT-ND	1.31	10.89	87.12	NDS8858HTR-ND	1415.70/2,500
	P-Chan.*	-30	0.065	0.10	—	-4.8	2.5							

* VGS are negative for P-Channel devices. † VGS @ 2.5V ‡VGS @ 5V

(Continued)

Fig. 8 — SOT-223

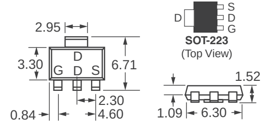

Fig. 9 — TO-252

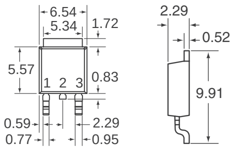

Fig. 10

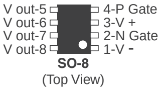

Fig. 11 — TO-263AB

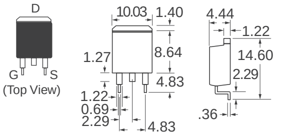

Fig. 12 — TO-220AB

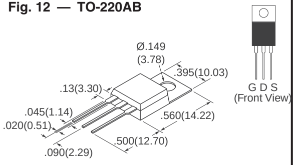

Fig. 13 — TO-92

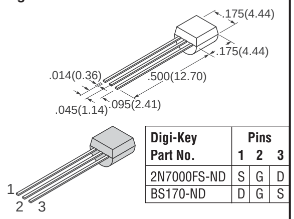

Digi-Key Part No.	Pins 1	2	3
2N7000FS-ND	S	G	D
BS170-ND	D	G	S

Fig. 14 — TO-251AA

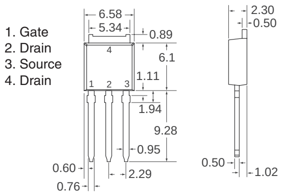

Fig. 15 — TO-247

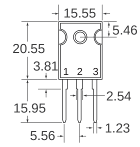

Fig. 15A — TO-247AD

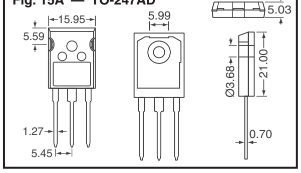

Surface Mount and Through-Hole Power MOSFETS *(Cont.)*

Fig.	Type	VDS (V)	RDS (on) Max (Ω) VGS @ 10V	VGS @ 4.5V	VGS @ 2.7V	ID (A)	PD (W)	Config. or Pkg.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing
Power MOSFET (TO-263AB)														
11	N-Chan.	30	0.022	0.04	—	25.0	50.0	TO-263AB	NDB603ALCT-ND	1.28	10.24	76.80	NDB603ALTR-ND	552.96/800
		50	0.1	—	—	15.0	50.0	TO-263AB	NDB4050CT-ND	1.10	9.20	73.60	NDB4050TR-ND	397.44/800
		50	—	—	0.1	15.0	50.0	TO-263AB	NDB4050LCT-ND	1.10	9.18	73.40	NDB4050LTR-ND	411.04/800
		60	—	—	0.025	48.0	100.0	TO-263AB	NDB6060LCT-ND	1.34	10.75	80.64	NDB6060LTR-ND	580.61/800
		60	0.015	—	—	75.0	150.0	TO-263AB	NDB7060CT-ND	13.80	103.50	690.00	—	—
		60	—	—	0.015	75.0	150.0	TO-263AB	NDB7060LCT-ND	16.02	120.15	801.00	—	—
Through-Hole Power MOSFET (TO-220AB)														
12	N-Chan.	30	0.022	0.04	—	25.0	50.0	TO-220AB	NDP603AL-ND	1.11	9.25	74.00	—	—
		50	0.015	—	—	75.0	150.0	TO-220AB	NDP7050-ND	3.72	29.76	231.50	—	—
		50	—	—	0.015	75.0	150.0	TO-220AB	NDP7050L-ND	3.01	24.08	187.32	—	—
		60	0.1	—	—	15.0	50.0	TO-220AB	NDP4060-ND	1.03	8.61	68.88	—	—
		60	—	—	0.1	15.0	50.0	TO-220AB	NDP4060L-ND	1.06	8.85	70.80	—	—
		60	0.025	—	—	48.0	100.0	TO-220AB	NDP6060-ND	1.65	13.18	98.82	—	—
		60	—	—	0.025	48.0	100.0	TO-220AB	NDP6060L-ND	1.65	13.20	99.00	—	—
		60	0.015	—	—	75.0	150.0	TO-220AB	NDP7060-ND	2.61	20.89	162.46	—	—
12	N-Chan.	55	0.008	—	—	100.0	175.0	Single	HRF3205-ND	2.19	17.54	131.58	—	—
		55	0.022	—	—	49.0	120.0	Single	HRFZ44N-ND	1.23	10.26	82.08	—	—
		60	0.028	—	—	45.0	131.0	Single	RFP45N06-ND	1.29	10.34	77.58	—	—
		60	0.022	—	—	50.0	131.0	Single	RFP50N06-ND	1.29	10.34	77.58	—	—
		60	—	0.107‡	—	11.0	38.0	Single	RFP3055LE-ND	.95	7.13	53.46	—	—
		60	—	0.047‡	—	30.0	96.0	Single	RFP30N06LE-ND	1.07	8.88	71.04	—	—
		100	0.040	—	—	40.0	160.0	Single	RFP40N10-ND	1.57	12.53	93.96	—	—
		100	—	0.2‡	—	12.0	60.0	Single	RFP12N10L-ND	.87	7.26	58.08	—	—
Through-Hole Power MOSFET (TO-92)														
13	N-Chan.	60	5	—	—	0.2	0.4	TO-92	2N7000FS-ND	.31	2.34	16.22	—	—
		60	5	—	—	0.5	0.83	TO-92	BS170-ND	.33	2.55	17.95	—	—
TO-251AA														
14	N-Chan.	50	0.100	—	—	14.0	48.0	Single	RFD14N05-ND	.91	6.84	51.30	—	—
		50	0.047	—	—	16.0	72.0	Single	RFD16N05-ND	1.02	8.52	68.16	—	—
		50	—	0.100‡	—	14.0	48.0	Single	RFD14N05L-ND	.93	6.98	52.38	—	—
		60	—	0.107‡	—	11.0	38.0	Single	RFD3055LE-ND	.92	6.88	51.57	—	—
		200	0.800	—	—	4.6	50.0	Single	IRFU220FS-ND	.78	6.54	52.32	—	—
TO-247														
15	N-Chan.	60	0.014	—	—	70.0	150.0	Single	RFG70N06-ND	2.28	18.23	141.79	—	—
NEW! TO-247AD NEW!														
15A	N-Chan.	600	0.19	—	—	20	208	Single	FCH20N60-ND	4.48	35.82	278.60	—	—
TO-252AA														
16	N-Chan.	50	0.100	—	—	14.0	48.0	Single	RFD14N05SM-ND	.91	6.84	51.30	—	—
		50	—	0.100‡	—	14.0	48.0	Single	RFD14N05LSM-ND	.96	7.20	54.00	—	—
		50	—	0.047‡	—	16.0	60.0	Single	RFD16N05LSM-ND	1.07	8.91	71.28	—	—
		50	0.047	—	—	16.0	72.0	Single	RFD16N05SM-ND	.98	8.19	65.52	—	—
		60	—	0.107‡	—	11.0	38.0	Single	RFD3055LESM-ND	.98	7.34	55.08	—	—
		100	0.27	—	—	8.4	50.0	Single	IRFR120FS-ND	.79	6.60	52.80	—	—
NEW! D²-PAK NEW!														
17	N-Chan.	600	0.38	—	—	11	125	Single	FCB11N60TMCT-ND	2.30	18.40	138.00	FCB11N60TMTR-ND	993.60/800
		600	0.19	—	—	20	208	Single	FCB20N60TMCT-ND	4.01	32.04	249.20	FCB20N60TMTR-ND	1851.20/800
NEW! TO-3P NEW!														
18	N-Chan.	600	0.19	—	—	20	208	Single	FCA20N60-ND	4.48	35.82	278.60	—	—
NEW! TO-220 NEW!														
19	N-Chan.	600	0.38	—	—	11	125	Single	FCP11N60-ND	2.30	18.40	138.00	—	—
		600	0.19	—	—	20	208	Single	FCP20N60-ND	4.01	32.04	249.20	—	—
		600	0.6	—	—	7	31	Single	FCP7N60-ND	1.58	12.60	94.50	—	—
NEW! TO-220F NEW!														
20	N-Chan.	600	0.38	—	—	11	36	Single	FCPF11N60-ND	2.30	18.40	138.00	—	—
		600	0.19	—	—	20	39	Single	FCPF20N60-ND	4.01	32.04	249.20	—	—
		600	0.6	—	—	7	31	Single	FCPF7N60-ND	1.58	12.60	94.50	—	—
NEW! SC75-6 NEW!														
21	N-Chan.	20	—	0.035	—	5.5	1.6	Single	FDJ128NCT-ND	.88	6.60	49.50	FDJ128NTR-ND	858.00/3,000
	P-Chan.	-20	—	0.07	—	-4.2	1.6	Single	FDJ129PCT-ND	.84	6.30	47.25	FDJ129PTR-ND	819.00/3,000

* VGS are negative for P-Channel devices. † VGS @ 2.5V ‡VGS @ 5V

Fig. 16 — TO-252AA

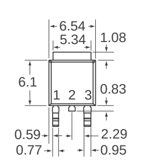

Fig. 17 — D²PAK

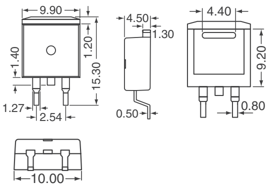

Fig. 18 — TO-3P

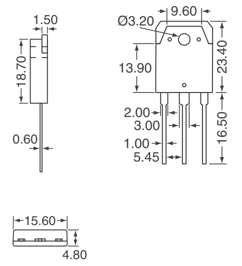

Fig. 19 — TO-220

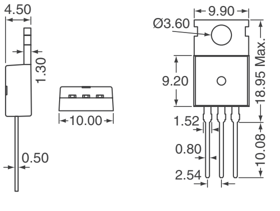

Fig. 20 — TO-220F

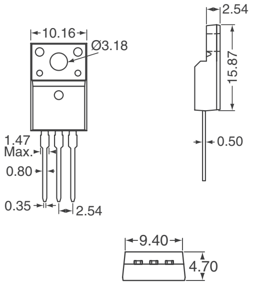

Fig. 21 — SC75-6

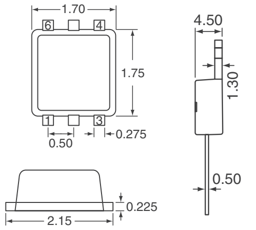

NEW! Surface Mount and Through-Hole Power IGBT's

Fairchild's IGBT's are designed to replace 500V/600V MOSFETs in switch mode power supply (SMPS), Power Factor Correction (PFC) and other high-power applications without redesign of the gate drive voltage circuitry. SMPS IGBT's are the first-in-class to have full unclamped inductive switching (UIS) capability similar to power MOSFETs, allowing application in all power circuit topologies, including single-switch forward converters. The gate drive voltage requirement has been reduced to 8-10V, allowing for the replacement of larger die-size power MOSFETs or multiplle MOSFETs in parallel.

Fig.	V_{CES} V	I_C (A)	I_{CM} (A)	P_D (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
1	1200	50	75	312	FGA25N120ANTDTU-ND	2.93	2.34	1.82	—	—	—
	600	40	160	160	FGA40N60UFDTU-ND	3.67	2.94	2.29	—	—	—
2	600	28	40	125	FGB20N6S2D-ND	2.25	1.80	1.40	—	—	—
	600	28	40	125	FGB20N6S2-ND	2.23	1.79	1.34	—	—	—
	600	45	108	167	FGB30N6S2D-ND	3.54	2.84	2.21	—	—	—
	600	45	108	167	FGB30N6S2TCT-ND	2.67	2.14	1.67	FGB30N6S2TTR-ND	800	1234.48
	600	75	180	290	FGB40N6S2TCT-ND	5.22	4.18	3.25	FGB40N6S2TTR-ND	800	2412.80
3	600	28	40	125	FGP20N6S2D-ND	2.37	1.90	1.43	—	—	—
	600	28	40	125	FGP20N6S2-ND	1.80	1.44	1.08	—	—	—
	600	45	108	167	FGP30N6S2D-ND	3.42	2.74	2.13	—	—	—
	600	45	108	167	FGP30N6S2-ND	2.70	2.16	1.68	—	—	—
	600	75	180	290	FGP40N6S2-ND	5.04	4.04	3.14	—	—	—
4	600	300	600	892	FMG2G300LS60E-ND	110.93	103.53	96.14	—	—	—
5	600	400	800	1136	FMG2G400LS60-ND	161.36	150.60	139.85	—	—	—
8	1200	64	120	500	FGL40N120ANDTU-ND	10.41	9.38	8.32	—	—	—
9	600	54	96	167	HGTG12N60A4D-ND	3.49	2.79	2.17	—	—	—
	600	54	96	167	HGTG12N60A4-ND	2.93	2.34	1.82	—	—	—
	600	70	280	290	HGTG20N60A4D-ND	5.18	4.14	3.22	—	—	—
	600	70	280	290	HGTG20N60A4-ND	4.28	3.42	2.66	—	—	—
	600	75	240	463	HGTG30N60A4D-ND	6.97	5.58	4.71	—	—	—
	600	75	240	463	HGTG30N60A4-ND	6.43	5.15	4.35	—	—	—
	600	75	300	625	HGTG40N60A4-ND	9.00	8.11	7.19	—	—	—
	600	34	56	125	HGTG7N60A4D-ND	2.25	1.80	1.40	—	—	—
	600	34	56	125	HGTG7N60A4-ND	2.13	1.70	1.28	—	—	—
9	600	28	40	125	FGH20N6S2D-ND	2.58	2.07	1.61	—	—	—
	600	28	40	125	FGH20N6S2-ND	2.34	1.88	1.46	—	—	—
	600	45	108	167	FGH30N6S2D-ND	4.23	3.39	2.64	—	—	—
	600	45	108	167	FGH30N6S2-ND	3.17	2.54	1.98	—	—	—
	600	75	180	290	FGH40N6S2D-ND	5.60	4.48	3.78	—	—	—
	600	75	180	290	FGH40N6S2-ND	5.40	4.32	3.36	—	—	—
	300	75	240	463	FGH50N3-ND	5.30	4.24	3.58	—	—	—
	600	75	240	463	FGH50N6S2D-ND	9.45	8.51	7.55	—	—	—
	600	75	240	463	FGH50N6S2-ND	8.24	6.60	5.57	—	—	—
	600	75	320	625	FGH60N6S2-ND	11.33	10.20	9.05	—	—	—
10	1200	50	100	320	FMG2G50US120-ND	48.24	45.03	41.81	—	—	—
	1200	75	150	445	FMG2G75US120-ND	56.51	52.74	48.98	—	—	—
SMPS IGBT's											
3	600	54	96	167	HGTP12N60A4D-ND	2.70	2.16	1.68	—	—	—
	600	54	96	167	HGTP12N60A4-ND	2.25	1.80	1.40	—	—	—
	600	70	280	290	HGTP20N60A4-ND	3.83	3.06	2.38	—	—	—
	600	17	40	70	HGTP3N60A4D-ND	1.50	1.20	.90	—	—	—
	600	17	40	70	HGTP3N60A4-ND	1.14	.95	.76	—	—	—
	600	34	56	125	HGTP7N60A4D-ND	1.88	1.50	1.13	—	—	—
	600	34	56	125	HGTP7N60A4-ND	1.50	1.20	.90	—	—	—

NEW! Ignition IGBTs

Fairchild ignition IGBTs are the next generation that offers outstanding SCIS capability in the space saving D-PAK (TO-252) as well as the industry standard D2-Pak (TO-263), TO-262 and TO-220 plastic packages. This device is intended for use in automotive ignition circuits, specifically as a coil driver. Internal diodes provide voltage clamping without the need for external components.

Fig.	BV_{CER} V	BV_{ECS} (A)	I_{C25} (A)	P_D (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
2	430	24	10	130	ISL9V2040S3STCT-ND	1.98	1.58	1.19	ISL9V2040S3STTR-ND	800	853.20
	430	24	21	150	ISL9V3040S3STCT-ND	2.23	1.78	1.34	ISL9V3040S3STTR-ND	800	961.20
	390	24	46	250	ISL9V5036S3STCT-ND	3.62	2.90	2.26	ISL9V5036S3STTR-ND	800	1674.40
3	430	24	10	130	ISL9V2040P3-ND	1.90	1.52	1.14	—	—	—
	430	24	21	150	ISL9V3040P3-ND	2.25	1.80	1.40	—	—	—
	390	24	46	250	ISL9V5036P3-ND	2.20	1.76	1.32	—	—	—
6	430	24	10	130	ISL9V2040D3STCT-ND	1.78	1.42	1.07	ISL9V2040D3STTR-ND	2,500	908.80/M
	430	21	21	150	ISL9V3040D3STCT-ND	2.35	1.88	1.41	ISL9V3040D3STTR-ND	2,500	1203.20/M
7	390	24	46	250	ISL9V5036S3-ND	2.23	1.78	1.34	—	—	—

Fig. 1 — TO-3P

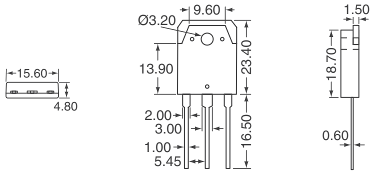

Fig. 2 — TO-263AB

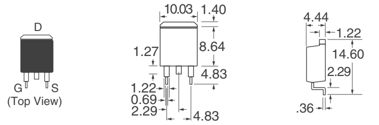

Fig. 3 — TO-220AB

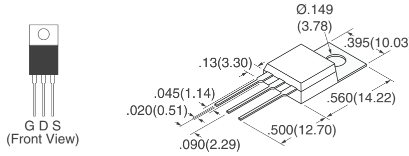

Fig. 4 — 7PM-HA

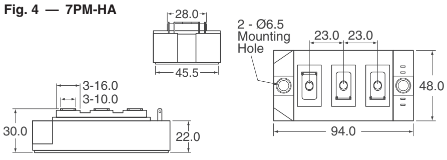

Fig. 5 — 7PM-IA

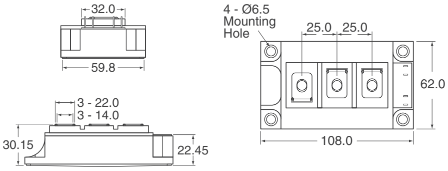

Fig. 6 — TO-252AA

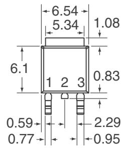

Fig. 7 — TO-262AA

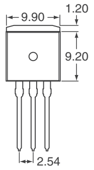

Fig. 8 — TO-264

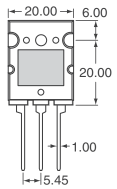

Fig. 9 — TO-247

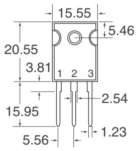

Fig. 10 — 7PM-GA

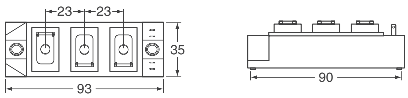

International
IOR Rectifier

HexFred Diodes

HEXFRED technology sets a new standard for high performance ultrafast diodes. This performance advantage can be utilized by the designer resulting in higher efficiency circuits and lower overall system cost. HEXFREDS will: • Allow IGBTS and MOSFETS to run cooler by 10°C, 20°C • Improve overall system efficiency by 1%, 2% • Reduce noise and the need for snubber circuitry • Allow for higher frequency operation • Allow many marginal circuits to work more reliably

Fig. 1

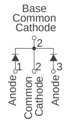

Fig. 2

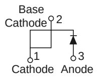

Fig. 3

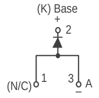

Fig. 4

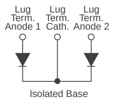

Fig. 5

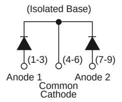

Fig. 6

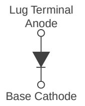

Fig. 7

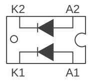

Fig. 8

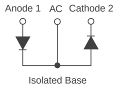

TO-220AB

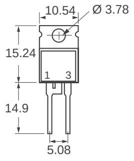

TO-220AC

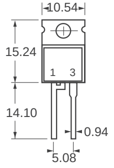

TO-262

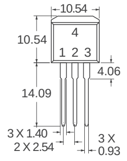

D-PAK

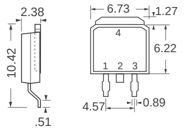

TO-247AC

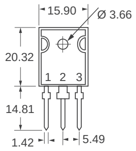

TO-247AC/MOD

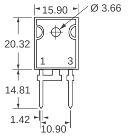

D-60

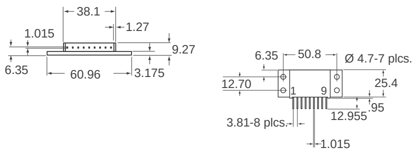

D-61-8

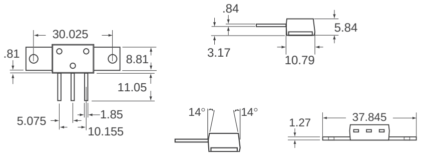

D-61-8SL

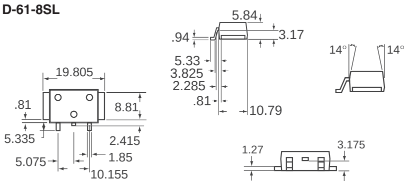

Fig.	Package	VR	VF	IF(AV) (A)	TRR(Typical) NS	QRR(Typical) NC	IRRM (A)	Digi-Key Part No.	Price Each 1	10	100
1	TO-220AB	200	0.975	16	25	23	1.7	MUR1620CTIR-ND	1.15	.92	.64
		600	1.7	16	18	65	5	HFA16TA60C-ND	4.65	3.96	3.26
		600	1.7	16	18	65	5	HFA16TA60CPBF-ND†	6.97	4.65	3.72
		600	1.7	30	19	80	6	HFA30TA60CPBF-ND†	7.53	5.02	4.02
		600	1.8	8	42	40	5.2	HFA08TA60CPBF-ND†	3.36	2.24	1.80
2	TO-220AC	600	1.5	4	17	40	2.9	HFA04TB60PBF-ND†	.90	.58	.45
		600	1.7	8	18	65	5	HFA08TB60PBF-ND†	3.16	1.98	1.47
		600	1.7	15	19	80	6	HFA15TB60-ND	4.15	2.90	2.33
		600	1.7	15	19	80	6	HFA15TB60PBF-ND†	5.25	3.38	2.63
		600	1.7	25	23	112	10	HFA25TB60-ND	3.60	3.06	2.52
		600	1.7	25	23	112	10	HFA25TB60PBF-ND†	5.40	3.60	2.88
		1200	2.4	6	26	116	4.4	HFA06TB120PBF-ND†	5.64	3.76	3.01
		1200	2.4	8	28	140	4.5	HFA08TB120PBF-ND†	6.51	4.34	3.48
		1200	2.3	16	30	260	5.8	HFA16TB120PBF-ND†	12.18	9.01	7.31
1	D-Pak	200	1.2	6	25	60	4.6	MURD620CT-ND	.95	.76	.53
1	TO-247AC	600	1.7	30	19	80	6	HFA30PA60CPBF-ND†	6.65	4.93	4.00
1		600	1.7	16	55	60	5	HFA16PA60C-ND	3.07	2.46	1.76
1		600	1.7	16	55	60	5	HFA16PA60CPBF-ND†	3.68	2.46	1.97
1		600	1.3	50	23	112	4.5	HFA50PA60CPBF-ND†	7.85	6.11	5.06
1		1200	2.4	6	26	116	4.4	HFA12PA120C-ND	9.45	7.56	5.67
1		1200	2.4	6	26	116	4.4	HFA12PA120CPBF-ND†	9.45	7.00	5.67
2		1200	3.3	8	28	140	4.5	HFA16PA120C-ND	10.63	8.50	6.38
2		1200	3.3	8	28	140	4.5	HFA16PA120CPBF-ND†	10.63	7.87	6.38
1		1200	2.3	16	30	260	5.8	HFA32PA120C-ND	17.33	13.86	10.40
1		1200	2.3	16	30	260	5.8	HFA32PA120CPBF-ND†	15.59	12.13	10.05
2	TO-247AC/MOD	1200	2.4	30	37	490	8.1	HFA30PB120-ND	15.95	12.77	9.58
		1200	2.4	30	37	490	8.1	HFA30PB120PBF-ND†	14.36	11.17	9.26
		1200	3	8	28	140	4.5	HFA08PB120-ND	7.20	5.76	4.32
		1200	3	8	28	140	4.5	HFA08PB120PBF-ND†	7.20	5.33	4.32
		600	1.7	15	19	80	6	HFA15PB60PBF-ND†	3.55	2.37	1.90
		600	1.7	25	23	112	10	HFA25PB60-ND	7.96	5.88	4.87
		600	1.7	25	23	112	10	HFA25PB60PBF-ND†	8.30	6.15	4.98
		1200	3	16	30	260	5.8	HFA16PB120-ND	8.36	7.11	5.86
		1200	3	16	30	260	5.8	HFA16PB120PBF-ND †	10.45	7.74	6.27
		600	1.7	8	55	65	5	HFA08PB60-ND	3.58	2.86	2.04
		600	1.7	8	55	65	5	HFA08PB60PBF-ND†	4.29	2.86	2.29
		1200	3	6	26	80	4.4	HFA06PB120-ND	5.50	4.40	3.14
		1200	3	6	26	80	4.4	HFA06PB120PBF-ND†	6.60	4.40	3.52

† RoHS Compliant

(Continued)

D61-8SM

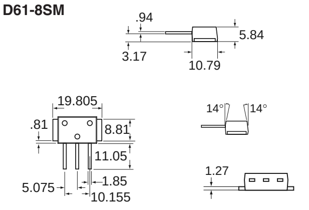

Half-PAK

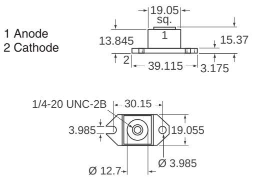

D2PAK

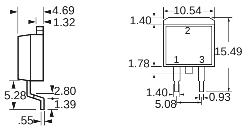

SOT-227

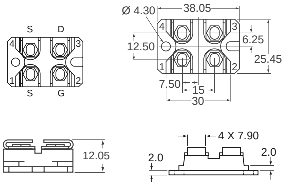

TO-244AB

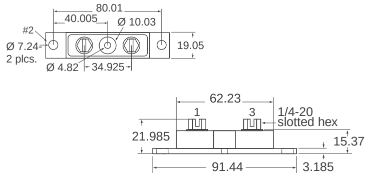

TO-244AB (ISO)

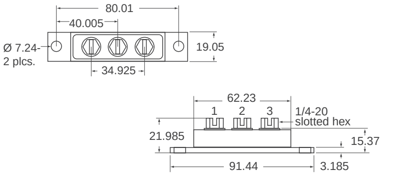

TO-249AA

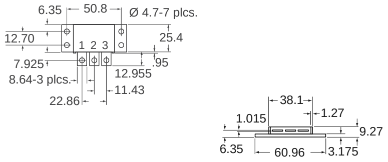

Fig.	Package	VR	VF	IF(AV) (A)	TRR(Typical) NS	QRR(Typical) NC	IRRM (A)	Digi-Key Part No.		Price Each	
									1	10	100
5	D-60	600	1.1	60	30	200	6	HFA60MB60C-ND	72.50	58.00	43.50
1	D61-8	600	1.2	70	30	210	6	HFA70NC60C-ND	26.50	21.20	15.90
		400	1	80	30	200	6	HFA80NC40CPBF-ND†	21.26	17.01	14.89
1	D-61-8SL	600	1.2	70	30	210	6	HFA70NC60CSL-ND	21.20	21.20	26.50
1	D61-8SM	600	1.2	70	30	210	6	HFA70NC60CSM-ND	23.85	19.08	14.31
		400	1	80	30	200	6	HFA80NC40CSM-ND	26.58	21.26	15.95
6	HALF-PAK	600	1.2	105	35	450	10	HFA105NH60-ND	38.33	30.66	23.00
		400	1	135	50	290	7.5	HFA135NH40-ND	39.60	31.68	23.76
		600	1.3	140	39	490	9.3	HFA140NH60-ND	48.60	38.88	29.16
		400	1.1	180	45	420	8.7	HFA180NH40-ND	44.66	35.73	26.80
		400	1.1	180	45	420	8.7	HFA180NH40R-ND	45.83	36.67	28.42
		600	1.2	70	33	340	8.5	HFA70NH60-ND	33.75	27.00	20.25
1	D2PAK	600	1.8	8	42	40	5.2	HFA08TA60CS-ND	3.20	2.56	1.92
3		600	1.8	4	42	40	5.2	HFA04TB60S-ND	2.63	2.10	1.58
3		1200	3	6	26	116	4.4	HFA06TB120S-ND	5.45	4.36	3.27
3		1200	3	8	28	140	4.5	HFA08TB120S-ND	6.18	4.94	3.71
1		600	1.7	8	18	65	5	HFA16TA60CS-ND	5.81	4.65	3.49
2		1200	2.3	16	30	260	5.8	HFA16TB120S-ND	12.93	10.34	7.76
3		600	1.7	15	23	84	6	HFA15TB60S-ND	4.25	3.40	2.55
3		600	1.3	25	23	112	10	HFA25TB60S-ND	5.86	4.69	3.52
3		600	1.4	8	18	65	5	HFA08TB60STRL-ND		436.00/800	
7	SOT-227	600	1.4	120	65	270	7	HFA120FA60-ND	39.93	31.95	27.96
8	TO-244AB ISO	600	1.4	100	33	300	8	HFA100MD60D-ND	56.48	45.18	33.89
8		400	0.9	120	36	420	9.3	HFA120MD40D-ND	92.68	74.15	55.61
4		600	1.2	140	35	360	8	HFA140MD60C-ND	103.53	82.82	62.12
8		600	1.2	140	35	360	8	HFA140MD60D-ND	105.10	84.08	63.06
4		400	0.9	160	50	260	7.1	HFA160MD40C-ND	66.99	53.59	40.20
8		400	0.9	160	50	260	7.1	HFA160MD40D-ND	97.34	77.87	58.41
1		600	1.5	180	140	—	17	HFA180MD60D-ND	122.00	97.60	75.64
1		600	1.5	180	140	—	17	HFA180MD60C-ND	120.43	96.34	74.67
8		400	0.9	200	45	330	8.1	HFA200MD40D-ND	124.10	99.28	74.46
1	TO-244AB	600	1.2	140	33	340	8.5	HFA140NJ60C-ND	58.46	46.77	35.08
		400	1	160	36	420	9.3	HFA160NJ40C-ND	70.00	56.00	42.00
		600	1.2	210	35	450	10	HFA210NJ60C-ND	91.33	73.06	54.80
		400	1	240	50	290	7.5	HFA240NJ40C-ND	86.45	69.16	51.87
		600	1.3	280	39	490	93	HFA280NJ60C-ND	104.48	83.58	62.69
		400	1	320	45	420	8.7	HFA320NJ40C-ND	56.54	45.23	33.93
8	TO-244AB	600	1.2	140	33	340	8.5	HFA140NJ60D-ND	59.85	47.88	35.91
		400	1	160	36	420	9.3	HFA160NJ40D-ND	63.63	50.91	38.18
		600	1.2	210	35	450	10	HFA210NJ60D-ND	83.59	66.87	50.16
		400	1	240	50	290	7.5	HFA240NJ40D-ND	86.43	69.14	51.86
		600	1.3	280	39	490	93	HFA280NJ60D-ND	95.42	76.34	57.26
		400	1	320	45	420	8.7	HFA320NJ40D-ND	110.53	88.42	66.32
1	TO-249AA	600	1.1	60	30	200	6	HFA60MC60C-ND	42.86	34.29	25.72
4		400	1	75	30	200	6	HFA75MC40C-ND	72.50	58.00	43.50
4		400	1	80	30	200	6	HFA80NK40C-ND	72.50	58.00	43.50
1	TO-262	600	1.7	15	60	600	6	HFA15TB60-1-ND	2.08	1.46	1.11

† RoHS Compliant

N and P Channel HEXFETs

Electrical characteristics at 25°C unless otherwise noted.
Dimensions shown in mm

Fig. 1 — TO-220AB

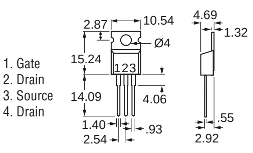

Fig. 2 — TO-220 Fullpak

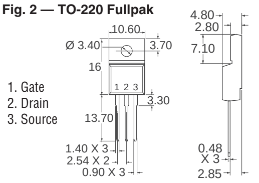

Fig. 3 — TO-247AC

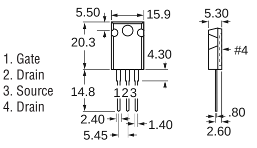

Fig. 4 — TO-262

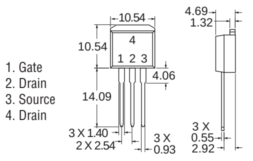

Fig. 5 — I-Pak

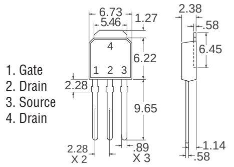

Fig. 6 — 4-Pin Dip (HEXDIP®)

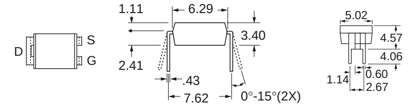

Fig. 7 — Super-220™

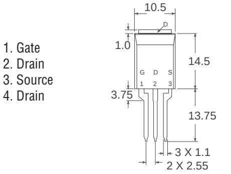

Fig. 8 — TO-220-5

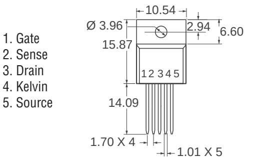

Fig. 9 — Super 247

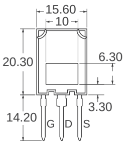

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
P-CHANNEL TYPES									
TO-220AB									
1	-50	0.28	-9.7	—	—	IRF9Z20PBF-ND†	1.65	1.07	.83
	-50	0.14	-18	—	—	IRF9Z30PBF-ND†	1.80	1.16	.90
	-55	0.02	-74	-260	150	IRF4905PBF-ND†	3.30	2.20	1.76
	-55	0.06	-31	-110	110	IRF5305-ND	1.84	1.21	.94
	-55	0.06	-31	-110	110	IRF5305PBF-ND†	1.96	1.26	.98
	-55	0.1	-19	-68	56	IRF9Z34NPBF-ND†	1.89	1.22	.95
	-55	0.175	-12	-48	45	IRF9Z24NPBF-ND†	1.36	.88	.68
	-60	0.14	-18	-72	88	IRF9Z34PBF-ND†	1.80	1.16	.90
	-60	0.28	-11	-44	60	IRF9Z24PBF-ND†	2.20	1.42	1.11
	-60	0.5	-6.7	-27	43	IRF9Z14PBF-ND†	1.52	.95	.71
	-60	0.5	-6.7	-27	43	IRF9Z10PBF-ND†	1.72	1.08	.80
	-100	0.06	-40	-140	150	IRF5210PBF-ND†	2.04	1.36	1.09
	-100	0.117	-23	-76	94	IRF9540NPBF-ND†	2.39	1.54	1.20
	-100	0.2	-19	-72	150	IRF9540PBF-ND†	1.44	.93	.72
	-100	0.2	-14	-56	75	IRF9530NPBF-ND†	1.74	1.12	.87
	-100	0.3	-12	-48	88	IRF9530PBF-ND†	1.73	1.12	.87
	-100	0.48	-6.8	-27	48	IRF9520NPBF-ND†	1.88	1.18	.87
	-100	0.60	-6.8	-27	60	IRF9520PBF-ND†	2.17	1.40	1.09
	-100	1.2	-4	-12	20	IRF9510-ND	1.16	.75	.58
	-100	1.2	-4	-12	20	IRF9510PBF-ND†	1.96	1.26	.98
	-150	0.15	-27	-110	250	IRF6218PBF-ND†	3.07	1.98	1.54
	-150	0.29	-13	-44	83	IRF6215-ND	2.09	1.37	1.05
	-150	0.29	-13	-44	83	IRF6215PBF-ND†	2.21	1.42	1.11
	-200	0.5	-11	-44	125	IRF9640PBF-ND†	2.28	1.47	1.14
	-200	0.8	-6.5	-26	75	IRF9630PBF-ND†	1.75	1.13	.88
	-200	1.5	-3.5	-14	40	IRF9620PBF-ND†	2.66	1.71	1.33
	-200	3	-1.8	-7	20	IRF9610PBF-ND†	1.89	1.22	.95
TO-220 Fullpak									
2	-55	0.015	-14	-60	33	IRLIB9343PBF-ND†	2.56	1.65	1.28
	-60	0.14	-12	-48	42	IRFI9Z34G-ND	2.03	1.63	1.17
	-60	0.14	-12	-48	42	IRFI9Z34GPBF-ND†	2.84	1.83	1.42
	-60	0.28	-8.5	-34	37	IRFI9Z24GPBF-ND†	2.28	1.47	1.14
	-60	0.5	-5.3	-21	27	IRFI9Z14GPBF-ND†	1.61	1.04	.81
	-100	0.117	-13	-44	48	IRFI9540GPBF-ND†	3.90	2.60	2.08
	-100	0.3	-7.7	-31	42	IRFI9530GPBF-ND†	2.49	1.60	1.25
	-100	0.6	-5.2	-21	37	IRFI9520GPBF-ND†	2.80	1.80	1.40
	-200	0.5	-6.1	-24	40	IRFI9640G-ND	2.66	2.13	1.60
	-200	0.5	-6.1	-24	40	IRFI9640GPBF-ND†	3.19	2.13	1.70
	-200	0.8	-4.3	-17	35	IRFI9630G-ND	2.22	1.78	1.28
	-200	0.8	-4.3	-17	35	IRFI9630GPBF-ND†	3.11	2.00	1.56
	-200	1.5	-3	-12	30	IRFI9620GPBF-ND†	2.80	1.80	1.40
	-200	3	-1.9	—	—	IRFI9610G-ND	1.45	1.16	.87
	-200	3	-1.9	—	—	IRFI9610GPBF-ND†	2.03	1.31	1.02
	-250	1	-4.1	-16	35	IRFI9634GPBF-ND†	2.84	1.83	1.42
TO-247AC									
3	-100	0.117	-23	-76	140	IRFP9140N-ND	2.99	2.39	1.71
	-100	0.117	-23	-76	140	IRFP9140NPBF-ND†	2.99	2.21	1.80
	-100	0.2	-21	—	180	IRFP9140PBF-ND†	3.34	2.23	1.78
	-200	0.5	-12	—	150	IRFP9240PBF-ND†	4.76	3.18	2.54
TO-262									
4	-55	0.02	-74	-260	200	IRF4905L-ND	2.45	1.96	1.40
	-55	0.06	-31	-110	3.8	IRF5305L-ND	2.00	1.60	1.20
	-55	0.1	-19	-68	3.8	IRF9Z34NL-ND	2.15	1.72	1.29
	-55	0.1	-19	-68	3.8	IRF9Z34NLPBF-ND†	3.01	1.94	1.51
	-55	0.28	-12	-48	3.8	IRF9Z24NL-ND	1.52	1.22	.92
	-55	0.28	-12	-48	3.8	IRF9Z24NLPBF-ND†	2.13	1.37	1.07
	-60	0.5	-6.7	-27	3.7	IRF9Z14L-ND	1.42	1.14	.86
	-60	0.5	-6.7	-27	3.7	IRF9Z14LPBF-ND†	1.99	1.28	1.00
	-100	0.06	-40	-140	3.8	IRF5210L-ND	3.70	2.96	2.22
	-100	0.11	-23	-76	3.8	IRF9540NL-ND	2.93	2.34	1.76
	-100	0.2	-14	-56	3.8	IRF9530NL-ND	2.02	1.62	1.22
	-100	1.2	-4.0	-16	43	IRF9510L-ND	1.46	1.17	.88
	-150	0.29	-13	-44	3.8	IRF6215L-ND	1.75	1.40	1.05
	-200	0.5	-11	-44	125	IRF9640L-ND	3.10	2.48	1.87
	-200	3	-1.8	-7	20	IRF9610L-ND	1.42	1.14	.85
I-Pak									
5	-50	0.28	-9.9	—	—	IRFU9020-ND	1.53	1.22	.87
	-50	0.28	-9.9	—	—	IRFU9020PBF-ND†	2.14	1.38	1.07
	-50	0.5	-5.3	-21	25	IRFU9010-ND	1.10	.88	.66
	-50	0.5	-5.3	-21	25	IRFU9010PBF-ND†	1.76	1.10	.82
	-55	0.015	-20	-60	79	IRLU9343-ND	2.33	1.55	1.17
	-55	0.015	-20	-60	79	IRLU9343PBF-ND†	1.60	1.00	.74
	-55	0.065	-28	-110	110	IRFU5305PBF-ND†	2.52	1.62	1.26
	-55	0.11	-18	-64	57	IRFU5505PBF-ND†	1.86	1.19	.93
	-55	0.175	-11	-44	38	IRFU9024NPBF-ND†	1.96	1.23	.91
	-60	0.28	-8.8	-35	42	IRFU9024PBF-ND†	1.66	1.07	.83
	-60	0.5	-5.1	-20	25	IRFU9014PBF-ND†	1.43	.90	.67
	-100	0.205	-13	-52	66	IRFU5410-ND	1.23	.66	.59
	-100	0.205	-13	-52	66	IRFU5410PBF-ND†	1.12	.72	.56
	-100	0.48	-6.6	-26	40	IRFU9120NPBF-ND†	1.96	1.23	.91
	-100	0.6	-5.6	-22	42	IRFU9120-ND	.92	.74	.53
	-100	0.6	-5.6	-22	42	IRFU9120PBF-ND†	1.28	.83	.65
	-100	1.2	-3.1	-12	25	IRFU9110-ND	.74	.60	.43
	-100	1.2	-3.1	-12	25	IRFU9110PBF-ND†	1.18	.74	.55
	-150	0.295	-13	-44	110	IRFU6215PBF-ND†	2.02	1.30	1.01
	-200	1.5	-3.6	-14	42	IRFU9220PBF-ND†	1.70	1.10	.85
	-200	3	-1.9	-7.6	25	IRFU9210-ND	1.35	1.08	.77
	-200	3	-1.9	-7.6	25	IRFU9210PBF-ND†	1.89	1.22	.95
	-250	3	-2.7	-11	50	IRFU9214PBF-ND†	1.75	1.13	.88
	-400	7	-1.8	-7.2	50	IRFU9310-ND	1.28	1.02	.77
	-400	7	-1.8	-7.2	50	IRFU9310PBF-ND†	1.79	1.15	.90
4-Pin Dip									
6	-50	0.28	-1.6	—	—	IRFD9020-ND	1.31	.85	.65
	-50	0.28	-1.6	—	—	IRFD9020PBF-ND†	1.34	.87	.68
	-50	0.5	-1.1	—	—	IRFD9010-ND	.70	.56	.40
	-50	0.5	-1.1	—	—	IRFD9010PBF-ND†	1.12	.70	.52
	-60	0.28	-1.6	-13	1.3	IRFD9024PBF-ND†	1.24	.80	.62
	-60	0.5	-1.1	-8.8	1.3	IRFD9014PBF-ND†	1.28	.80	.60
	-100	0.6	-1.0	-8	1.0	IRFD9120PBF-ND†	1.40	.90	.70
	-100	1.2	-0.7	-3	1.0	IRFD9110PBF-ND†	1.31	.82	.61
	-200	1.5	-0.6	-4.8	1.0	IRFD9220-ND	2.14	1.52	1.25
	-200	1.5	-0.6	-4.8	1.0	IRFD9220PBF-ND†	3.12	2.01	1.56
	-200	3	-0.4	-1.6	1.0	IRFD9210-ND	.74	.53	.43
	-200	3	-0.4	-1.6	1.0	IRFD9210PBF-ND†	1.07	.70	.54
N-CHANNEL TYPES									
TO-220AB									
1	20	0.004	180	700	230	IRF1302PBF-ND†	3.19	2.05	1.60
	20	0.006	92	380	79	IRF3711Z-ND	1.73	1.11	.83
	20	0.006	92	380	79	IRF3711ZPBF-ND†	1.84	1.15	.86
	20	0.006	110	440	120	IRF3711-ND	1.84	1.05	.85
	20	0.006	110	440	120	IRF3711PBF-ND†	1.96	1.26	.98
	20	0.0079	67	260	57	IRF3704ZPBF-ND†	2.44	1.53	1.13
	20	0.0085	77	280	88	IRF3706-ND	1.55	1.24	.93
	20	0.0085	77	280	88	IRF3706PBF-ND†	2.17	1.40	1.09
	20	0.011	50	200	45	IRL3715ZPBF-ND†	1.72	1.08	.80
	20	0.014	54	210	71	IRL3715PBF-ND†	1.52	.95	.71
	20	0.016	36	140	35	IRL3714ZPBF-ND†	1.76	1.10	.82
	20	0.02	36	140	47	IRL3714PBF-ND†	.96	.60	.45
	20	0.09	77	308	87	IRF3704PBF-ND†	1.95	1.26	.98
	30	0.0028	210	1000	230	IRF3703PBF-ND†	5.31	3.54	2.84
	30	0.0033	75	960	330	IRF1503PBF-ND†	2.13	1.42	1.14
	30	0.006	105	420	110	IRL8113-ND	1.95	1.26	1.01
	30	0.006	105	420	110	IRL8113PBF-ND†	2.10	1.35	1.05
	30	0.006	140	470	2000	IRL3803-ND	3.12	2.21	1.82
	30	0.006	140	470	2000	IRL3803PBF-ND†	3.90	2.60	2.08
	30	0.0063	87	350	79	IRF3709ZPBF-ND†	1.92	1.20	.89

† RoHS Compliant

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
1	30	0.009	90	360	120	IRF3709-ND	1.78	1.01	.82
	30	0.009	90	360	120	IRF3709PBF-ND†	1.86	1.20	.93
	30	0.0095	59	230	57	IRF3707Z-ND	1.40	.90	.73
	30	0.0095	59	230	57	IRF3707ZPBF-ND†	1.80	1.13	.84
	40	0.0023	75	1080	330	IRF2804PBF-ND†	3.33	2.22	1.78
	40	0.004	202	808	333	IRF1404PBF-ND†	2.61	1.74	1.40
	40	0.0036	210	850	330	IRF2204PBF-ND†	3.22	2.15	1.72
	40	0.0037	75	750	220	IRF1404ZPBF-ND†	2.47	1.65	1.32
	40	0.0031	75	790	230	IRL1404ZPBF-ND†	3.34	2.23	1.79
	40	0.0055	75	470	140	IRF4104PBF-ND†	3.36	2.16	1.68
	40	0.009	100	400	170	IRF1104PBF-ND†	3.40	2.19	1.70
	50	0.2	10	29	20	IRFZ10PBF-ND†	1.80	1.13	.84
	50	0.1	15	60	40	IRFZ20PBF-ND†	1.31	.85	.66
	50	0.028	35	—	—	IRFZ40PBF-ND†	2.11	1.36	1.06
	50	0.05	30	—	—	IRFZ30PBF-ND†	1.74	1.13	.88
	55	0.0033	75	890	130	IRF3805-ND	5.18	3.70	2.96
	55	0.0047	75	700	330	IRF2805PBF-ND†	4.80	3.20	2.56
	55	0.005	75	600	230	IRF1405ZPBF-ND†	4.82	3.21	2.57
	55	0.0053	169	680	330	IRF1405-ND	4.13	3.30	2.48
	55	0.0053	169	680	330	IRF1405PBF-ND†	4.95	3.30	2.64
	55	0.0075	75	360	140	IRF1010Z-ND	2.94	1.90	1.54
	55	0.0075	75	360	140	IRF1010ZPBF-ND†	3.16	2.04	1.59
	55	0.007	75	440	170	IRF3205ZPBF-ND†	2.18	1.41	1.10
	55	0.008	75	340	130	IRL3705ZPBF-ND†	2.56	1.65	1.28
	55	0.008	75	560	330	IRF3305-ND	3.19	1.96	1.67
	55	0.008	75	560	330	IRF3305PBF-ND†	3.43	2.21	3.43
	55	0.008	110	390	150	IRF3205PBF-ND†	4.01	2.59	2.01
	55	0.011	61	240	91	IRFZ48ZPBF-ND†	2.01	1.29	1.01
	55	0.012	85	290	130	IRF1010N-ND	2.15	1.72	1.21
	55	0.012	85	290	130	IRF1010NPBF-ND†	3.01	1.94	1.51
	55	0.0135	51	204	80	IRLZ44Z-ND	1.81	1.19	.90
	55	0.0135	51	204	80	IRLZ44ZPBF-ND†	1.81	1.17	.91
	55	0.0136	51	200	82	IRFZ46Z-ND	1.76	1.12	.91
	55	0.0136	51	200	82	IRFZ46ZPBF-ND†	1.87	1.20	.94
	55	0.0139	51	200	80	IRFZ44Z-ND	1.83	1.21	.92
	55	0.0139	51	200	80	IRFZ44ZPBF-ND†	1.83	1.18	.92
	55	0.016	64	210	94	IRFZ48NPBF-ND†	2.10	1.35	1.05
	55	0.0165	53	180	107	IRFZ46NPBF-ND†	1.78	1.15	.89
	55	0.022	47	160	83	IRLZ44NPBF-ND†	1.89	1.22	.95
	55	0.024	49	160	83	IRFZ44NPBF-ND†	1.75	1.13	.88
	55	0.035	30	110	68	IRLZ34NPBF-ND†	1.66	1.04	.77
	55	0.04	29	100	56	IRFZ34N-ND	1.24	.81	.62
	55	0.04	29	100	56	IRFZ34NPBF-ND†	1.44	.90	.67
	55	0.07	17	68	45	IRFZ24NPBF-ND†	1.06	.69	.54
	55	0.074	18	72	45	IRLZ24N-ND	1.26	.82	.63
	55	0.074	18	72	45	IRLZ24NPBF-ND†	1.29	.83	.65
	60	0.0085	75	340	140	IRF1010EZPBF-ND†	2.02	1.30	1.01
	60	0.009	115	360	270	IRFB4215-ND	3.25	2.00	1.70
	60	0.009	115	360	270	IRFB4215PBF-ND†	3.00	2.00	1.60
	60	0.012	57	230	92	IRFZ44VZ-ND	1.89	1.21	.98
	60	0.012	57	230	92	IRFZ44VZPBF-ND†	2.01	1.29	1.01
	60	0.012	72	290	150	IRFZ48VPBF-ND†	1.47	.95	.74
	60	0.012	84	330	200	IRF1010E-ND	2.75	1.95	1.61
	60	0.012	84	330	200	IRF1010EPBF-ND†	4.01	2.59	2.01
	60	0.0165	55	220	115	IRFZ44V-ND	.98	.78	.69
	60	0.0165	55	220	115	IRFZ44VPBF-ND†	1.37	.88	.69
	60	0.018	50	290	190	IRFZ48R-ND	2.21	1.43	1.21
	60	0.018	50	290	190	IRFZ48RPBF-ND†	2.28	1.47	1.14
	60	0.018	50	290	190	IRFZ48PBF-ND†	3.50	2.25	1.75
	60	0.023	48	192	110	IRFZ44E-ND	2.12	1.39	1.07
	60	0.023	48	192	110	IRFZ44EPBF-ND†	2.24	1.44	1.12
	60	0.028	50	200	150	IRFZ44R-ND	1.84	1.05	.85
	60	0.028	50	200	150	IRFZ44RPBF-ND†	1.93	1.24	.97
	60	0.028	50	200	150	IRFZ44PBF-ND†	1.47	.95	.74
	60	0.042	28	112	68	IRFZ34EPBF-ND†	1.82	1.17	.91
	60	0.05	30	120	88	IRFZ34PBF-ND†	1.74	1.13	.88
	60	0.06	17	68	44	IRFZ24VPBF-ND†	1.87	1.17	.87
	60	0.1	17	68	60	IRFZ24PBF-ND†	1.31	.85	.66
	60	0.2	10	40	36	IRFZ14PBF-ND†	1.16	.73	.54
	75	.0028	210	850	370	IRFB3077PBF-ND†	6.13	4.29	3.68
	75	.0045	75	680	300	IRF2907ZPBF-ND†	5.18	3.45	2.76
	75	0.0045	180	720	330	IRFB3207PBF-ND†	4.92	3.28	2.63
	75	0.0063	130	510	250	IRFB3307-ND	3.39	2.46	1.90
	75	0.0063	130	510	250	IRFB3307PBF-ND†	3.51	2.34	1.88
	75	0.007	140	550	330	IRF3808PBF-ND†	3.09	2.06	1.65
	75	0.0075	142	570	380	IRF1607PBF-ND†	4.62	3.08	2.47
	75	0.0078	130	520	330	IRF1407-ND	2.60	1.81	1.40
	75	0.0078	130	520	330	IRF1407PBF-ND†	2.55	1.70	1.36
	75	0.0088	97	390	190	IRFB3507PBF-ND†	3.21	2.14	1.72
	75	0.009	75	350	170	IRF2807ZPBF-ND†	3.40	2.19	1.70
	75	0.0126	75	320	200	IRF3007PBF-ND†	2.60	1.68	1.31
	75	0.013	82	280	150	IRF2807-ND	3.38	2.32	1.84
	75	0.013	82	280	150	IRF2807PBF-ND†	4.06	2.61	2.03
	80	0.01	95	380	210	IRF1312PBF-ND†	4.44	2.96	2.37
	100	0.0037	180	670	370	IRFB4110PBF-ND†	6.13	4.29	3.68
	100	0.007	140	550	330	IRFB4310PBF-ND†	5.58	3.72	2.98
	100	0.01	96	380	250	IRFB4410PBF-ND†	3.81	2.54	2.04
	100	0.014	73	290	190	IRFB4610-ND	3.18	2.34	1.75
	100	0.014	73	290	190	IRFB4610PBF-ND†	3.18	2.34	1.75
	100	0.018	59	240	160	IRF3710ZPBF-ND†	2.16	1.39	1.08
	100	0.025	59	236	200	IRFB59N10D-ND	2.43	1.95	1.46

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
1	100	0.025	59	236	200	IRFB59N10DPBF-ND†	2.92	1.95	1.56
	100	0.0265	36	140	92	IRF540ZPBF-ND†	1.63	1.06	.82
	100	0.028	57	180	150	IRF3710-ND	3.09	2.23	1.82
	100	0.028	57	180	150	IRF3710PBF-ND†	4.23	2.72	2.12
	100	0.036	42	140	120	IRF1310N-ND	2.01	1.43	1.18
	100	0.036	42	140	120	IRF1310NPBF-ND†	2.93	1.89	1.47
	100	0.052	27	110	94	IRF540NIR-ND	1.74	1.16	.91
	100	0.052	27	110	94	IRF540NPBF-ND†	1.94	1.25	.97
	100	0.0725	18	57	60	IRFB4212PBF-ND†	2.08	1.48	1.12
	100	0.077	28	110	150	IRF540PBF-ND†	1.54	.99	.77
	100	0.014	75	300	200	IRFB4710PBF-ND†	2.94	1.96	1.57
	100	0.015	80	320	260	IRF8010PBF-ND†	2.28	1.52	1.22
	100	0.16	14	56	88	IRF530PBF-ND†	1.42	.92	.71
	100	0.11	17	60	63	IRF530NPBF-ND†	.88	.57	.44
	100	0.165	9.6	37	44	IRF520VPBF-ND†	1.86	1.20	.93
	100	0.2	9.7	38	48	IRF520NPBF-ND†	1.24	.80	.62
	100	0.27	9.2	37	60	IRF520IR-ND	1.33	1.06	.93
	100	0.27	9.2	37	60	IRF520PBF-ND†	1.86	1.20	.93
	100	0.6	5.6	16	20	IRF510-ND	1.08	.68	.50
	100	0.6	5.6	16	20	IRF510PBF-ND†	1.12	.70	.52
	150	0.032	60	250	2.4	IRFB61N15D-ND	3.03	2.42	1.98
	150	0.032	60	250	2.4	IRFB61N15DPBF-ND†	3.63	2.42	1.94
	150	0.032	51	240	230	IRFB52N15DPBF-ND†	2.52	1.68	1.35
	150	0.042	43	150	150	IRF3415PBF-ND†	3.99	2.66	2.13
	150	0.045	41	164	200	IRFB41N15D-ND	2.45	1.97	1.48
	150	0.045	41	164	200	IRFB41N15DPBF-ND†	2.94	1.97	1.57
	150	0.056	33	130	170	IRFB33N15D-ND	1.80	1.44	1.08
	150	0.056	33	130	170	IRFB33N15DPBF-ND†	2.16	1.44	1.16
	150	0.082	27	84	94	IRF3315-ND	1.42	1.01	.83
	150	0.082	27	84	94	IRF3315PBF-ND†	2.07	1.33	1.04
	150	0.09	23	92	136	IRFB23N15D-ND	1.60	1.28	.96
	150	0.09	23	92	136	IRFB23N15DPBF-ND†	2.24	1.44	1.12
	200	0.04	56	220	380	IRFB260N-ND	3.90	2.73	2.13
	200	0.04	56	220	380	IRFB260NPBF-ND†	3.90	2.60	2.08
	200	0.054	38	180	230	IRFB38N20DPBF-ND†	2.52	1.68	1.35
	200	0.055	44	180	330	IRFB42N20DPBF-ND†	4.85	3.24	2.59
	200	0.082	31	124	200	IRFB31N20DPBF-ND	2.89	1.93	1.55
	200	0.1	24	96	170	IRFB23N20D-ND	2.68	1.53	1.23
	200	0.1	24	96	170	IRFB23N20DPBF-ND†	2.30	1.53	1.23
	200	0.15	18	72	150	IRF640N-ND	1.99	1.30	1.00
	200	0.15	18	72	150	IRF640NPBF-ND†	2.08	1.34	1.04
	200	0.165	17	68	140	IRFB4103PBF-ND†	2.72	1.91	1.50
	200	0.17	16	64	140	IRFB17N20D-ND	1.46	1.17	.88
	200	0.17	16	64	140	IRFB17N20DPBF-ND†	2.05	1.32	1.03
	200	0.18	18	72	125	IRF640PBF-ND†	1.31	.85	.66
	200	0.3	9.3	37	82	IRF630NPBF-ND†	1.47	.95	.74
	200	0.4	9.0	36	74	IRF630PBF-ND†	1.75	1.13	.88
	200	0.8	5.2	20	40	IRF620IR-ND	1.14	.74	.57
	200	0.8	5.2	20	40	IRF620PBF-ND†	1.33	.84	.62
	200	1.5	3.3	10	20	IRF610PBF-ND†	1.08	.68	.50
	250	0.24	14	56	150	IRF644NPBF-ND†	1.47	.95	.74
	250	0.28	14	56	125	IRF644-ND	1.72	1.19	.95
	250	0.28	14	56	125	IRF644PBF-ND†	2.10	1.35	1.05
	250	0.435	8.0	32	88	IRF634NPBF-ND†	2.00	1.29	1.01
	250	0.45	8.1	32	74	IRF634PBF-ND†	1.51	.97	.76
	250	1.1	4.4	14	50	IRF624-ND	1.06	.69	.53
	250	1.1	4.4	14	50	IRF624PBF-ND†	1.10	.71	.55
	250	2	2.7	8	36	IRF614-ND	1.15	.92	.66
	250	2	2.7	8	36	IRF614PBF-ND†	1.84	1.15	.85
	300	0.45	9.3	37	96	IRFB9N30A-ND	1.33	1.06	.64
	300	0.45	9.3	37	96	IRFB9N30APBF-ND†	1.86	1.20	.93
	300	0.75	6.1	24	74	IRF737LC-ND	1.28	1.03	.77
	300	0.75	6.1	24	74	IRF737LCPBF-ND†	1.80	1.16	.90
	400	0.55	10	40	125	IRF740IR-ND	2.03	1.37	1.07
	400	0.55	10	40	125	IRF740PBF-ND†	2.30	1.49	1.16
	400	0.55	10	40	125	IRF740A-ND	1.86	1.26	.98
	400	0.55	10	40	125	IRF740APBF-ND†	2.12	1.37	1.06
	400	0.55	10	40	125	IRF740LC-ND	2.43	1.95	1.46
	400	0.55	10	40	125	IRF740LCPBF-ND†	3.40	2.19	1.71
	400	1	5.5	22	74	IRF730IR-ND	1.59	1.04	.80
	400	1	5.5	22	74	IRF730PBF-ND†	1.65	1.06	.83
	400	1	5.5	22	74	IRF730A-ND	1.15	.92	.66
	400	1	5.5	22	74	IRF730APBF-ND†	1.61	1.04	.81
	400	1.8	3.3	12	40	IRF720-ND	1.33	.85	.64
	400	1.8	3.3	12	40	IRF720PBF-ND†	1.29	.83	.65
	400	3.6	2	6	20	IRF710PBF-ND†	1.20	.75	.56
	450	0.63	8.8	35	125	IRF744-ND	1.83	1.47	1.05
	450	0.63	8.8	35	125	IRF744PBF-ND†	2.57	1.65	1.29
	450	1.2	4.9	20	74	IRF734-ND	1.90	1.52	1.08
	450	1.2	4.9	20	74	IRF734PBF-ND†	2.66	1.71	1.33
	500	0.21	20	80	280	IRFB20N50KPBF-ND†	5.64	3.76	3.01
	500	0.26	17	68	220	IRFB18N50KPBF-ND†	4.77	3.18	2.55
	500	0.28	16	64	220	IRFB17N50LPBF-ND†	6.48	4.32	3.46
	500	0.285	17	68	280	IRFB16N50K-ND	5.22	3.73	2.99
	500	0.285	17	68	280	IRFB16N50KPBF-ND†	5.59	3.73	2.99
	500	0.45	14	56	250	IRFB13N50A-ND	3.69	2.59	2.02
	500	0.45	14	56	250	IRFB13N50APBF-ND†	3.69	2.46	1.97
	500	0.52	11	44	170	IRFB11N50A-ND	1.73	1.38	.97
	500	0.52	11	44	170	IRFB11N50APBF-ND†	2.42	1.56	1.21
	500	0.85	8	28	125	IRF840LC-ND	2.80	2.24	1.60
	500	0.85	8	28	125	IRF840LCPBF-ND†	3.36	2.24	1.80

† RoHS Compliant

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
1	500	0.85	8	32	125	IRF840PBF-ND†	2.33	1.51	1.17
	500	0.85	8	32	125	IRF840APBF-ND†	2.18	1.41	1.10
	500	1.4	5	20	74	IRF830A-ND	1.53	1.22	.87
	500	1.4	5	20	74	IRF830APBF-ND†	2.14	1.38	1.07
	500	1.5	4.5	18	75	IRF830IR-ND	1.50	.99	.76
	500	1.5	4.5	18	75	IRF830PBF-ND†	1.58	1.02	.79
	500	3	2.5	10	40	IRF820PBF-ND†	1.49	.93	.69
	500	3	2.5	10	50	IRF820APBF-ND†	1.76	1.14	.89
	600	0.35	17	68	340	IRFB17N60KPBF-ND†	5.66	3.78	3.03
	600	0.385	16	60	310	IRFB16N60LPBF-ND†	6.90	4.60	3.68
	600	0.75	9.2	37	170	IRFB9N60APBF-ND†	2.38	1.53	1.19
	600	1.2	6.2	25	125	IRFBC40-ND	1.66	1.33	.95
	600	1.2	6.2	25	125	IRFBC40PBF-ND†	2.32	1.50	1.17
	600	1.2	6.2	25	125	IRFBC40APBF-ND†	2.31	1.49	1.16
	600	1.2	6.2	25	130	IRFBC40LC-ND	3.95	3.16	2.37
	600	1.2	6.2	25	130	IRFBC40LCPBF-ND†	4.74	3.16	2.53
	600	2.2	3.6	14	74	IRFBC30PBF-ND†	3.50	2.25	1.75
	600	2.2	3.6	14	74	IRFBC30A-ND	2.98	2.02	1.59
	600	2.2	3.6	14	74	IRFBC30APBF-ND†	3.47	2.23	1.74
	600	4.4	2.2	6.8	50	IRFBC20-ND	1.99	1.42	1.17
	600	4.4	2.2	6.8	50	IRFBC20PBF-ND†	2.91	1.87	1.46
	650	0.93	8.5	21	167	IRFB9N65APBF-ND†	3.07	2.05	1.64
	800	3	4.1	—	125	IRFBE30PBF-ND†	2.28	1.52	1.22
	800	6.5	1.8	—	54	IRFBE20PBF-ND†	2.74	1.76	1.37
	900	3.7	3.6	—	125	IRFBF30-ND	3.33	2.37	1.95
	900	3.7	3.6	—	125	IRFBF30PBF-ND†	4.17	2.78	2.23
	900	8	1.7	—	54	IRFBF20-ND	1.41	1.01	.83
	900	8	1.7	—	54	IRFBF20PBF-ND†	2.06	1.33	1.04
	1000	5	3.1	—	125	IRFBG30-ND	2.04	1.45	1.19
	1000	5	3.1	—	125	IRFBG30PBF-ND†	2.98	1.92	1.49
	1000	11	1.4	—	54	IRFBG20PBF-ND†	2.39	1.54	1.20
TO-220AB Logic Level									
1	20	0.004	180	720	210	IRL3716PBF-ND†	2.17	1.40	1.09
	20	0.007	110	420	140	IRL3502-ND	2.70	2.16	1.54
	20	0.007	110	420	140	IRL3502PBF-ND†	3.24	2.16	1.73
	20	0.01	85	340	110	IRL3402-ND	2.15	1.72	1.29
	20	0.01	85	340	110	IRL3402PBF-ND†	3.01	1.94	1.51
	20	0.013	61	240	89	IRL3102-ND	1.70	1.36	.97
	20	0.013	61	240	89	IRL3102PBF-ND†	2.38	1.53	1.19
	20	0.016	48	190	69	IRL3202PBF-ND†	1.99	1.28	1.00
	20	0.02	39	160	57	IRL3302-ND	1.45	1.16	.84
	20	0.02	39	160	57	IRL3302PBF-ND†	2.03	1.31	1.02
	30	0.003	260	1040	330	IRL3713PBF-ND†	2.70	1.80	1.44
	30	0.0038	150	600	140	IRL7833PBF-ND†	1.86	1.20	.93
	30	0.0055	140	470	200	IRL3803VPBF-ND†	2.64	1.70	1.32
	30	0.006	120	470	150	IRL3803-ND	3.12	2.21	1.82
	30	0.007	116	400	130	IRL2203NPBF-ND†	3.27	2.11	1.64
	30	0.012	62	248	87	IRF3708-ND	1.40	1.12	.84
	30	0.012	62	248	87	IRF3708PBF-ND†	1.95	1.26	.98
	30	0.0125	62	248	87	IRF3707PBF-ND†	1.95	1.26	.98
	30	0.014	64	220	89	IRL3103D1PBF-ND†	4.50	3.00	2.40
	30	0.014	64	220	110	IRL3103PBF-ND†	2.38	1.54	1.20
	30	0.026	38	140	68	IRL3303PBF-ND†	2.66	1.71	1.33
	30	0.04	24	96	45	IRL2703PBF-ND†	1.12	.70	.52
	40	0.004	160	640	200	IRL1404PBF-ND†	2.64	1.76	1.41
	40	0.0065	130	520	200	IRL1004-ND	3.67	2.94	2.10
	40	0.0065	130	520	200	IRL1004PBF-ND†	4.41	2.94	2.36
	40	0.008	104	416	167	IRL1104PBF-ND†	2.75	1.84	1.47
	55	0.008	104	360	200	IRL2505-ND	3.00	2.40	1.72
	55	0.008	104	360	200	IRL2505PBF-ND†	3.60	2.40	1.92
	55	0.01	89	310	130	IRL3705N-ND	2.60	1.85	1.52
	55	0.01	89	310	130	IRL3705NPBF-ND†	3.26	2.17	1.74
	60	0.028	50	200	150	IRLZ44PBF-ND†	1.93	1.24	.97
	60	0.05	30	110	88	IRLZ34PBF-ND†	1.30	.84	.65
	60	0.1	17	68	60	IRLZ24PBF-ND†	1.02	.66	.51
	60	0.2	10	40	43	IRLZ14PBF-ND†	1.24	.78	.58
	100	0.026	55	190	200	IRL2910-ND	3.00	2.40	1.72
	100	0.026	55	190	200	IRL2910PBF-ND†	3.60	2.40	1.92
	100	0.044	36	120	94	IRL540NPBF-ND†	2.27	1.46	1.14
	100	0.077	28	110	150	IRL540PBF-ND†	3.08	1.98	1.54
	100	0.1	17	60	63	IRL530N-ND	1.53	.99	.75
	100	0.1	17	60	63	IRL530NPBF-ND†	2.31	1.49	1.16
	100	0.16	15	60	88	IRL530PBF-ND†	1.95	1.22	.91
	100	0.18	10	35	47	IRL520N-ND	.71	.51	.42
	100	0.18	10	35	47	IRL520NPBF-ND†	1.04	.67	.52
	100	0.27	9.2	36	60	IRL520PBF-ND†	1.80	1.13	.84
	100	0.54	5.6	16	43	IRL510-ND	1.19	.75	.55
	100	0.54	5.6	16	43	IRL510PBF-ND†	1.56	.98	.72
	150	0.166	12	48	80	IRL3215PBF-ND†	2.10	1.35	1.05
	200	0.18	17	68	125	IRL640PBF-ND†	2.31	1.49	1.16
	200	0.4	9	36	74	IRL630PBF-ND†	2.63	1.69	1.32
	200	0.8	5.2	21	50	IRL620PBF-ND†	2.03	1.31	1.02
TO-220 Fullpak									
2	30	0.006	76	470	63	IRLI3803-ND	7.08	5.02	4.13
	30	0.006	76	470	63	IRLI3803PBF-ND†	8.85	5.90	4.72
	30	0.007	61	400	47	IRLI2203NPBF-ND†	4.65	3.10	2.48
	55	0.008	58	360	63	IRLI2505PBF-ND†	8.04	5.36	4.29
	55	0.008	64	390	63	IRFI3205PBF-ND†	7.95	5.30	4.24
2	55	0.01	52	310	58	IRLI3705NPBF-ND†	3.23	2.16	1.73
	55	0.012	49	290	58	IRFI1010N-ND	3.36	2.38	1.96
	55	0.012	49	290	58	IRFI1010NPBF-ND†	4.23	2.82	2.26
	55	0.016	36	210	42	IRFIZ48N-ND	1.74	1.24	1.02
	55	0.016	36	210	42	IRFIZ48NPBF-ND†	2.18	1.45	1.16
	55	0.02	33	180	45	IRFIZ46N-ND	1.89	1.34	1.11
	55	0.02	33	180	45	IRFIZ46NPBF-ND†	2.76	1.78	1.38
	55	0.022	30	160	45	IRLIZ44NPBF-ND†	2.73	1.76	1.37
	55	0.024	31	160	45	IRFIZ44NPBF-ND†	2.25	1.45	1.13
	55	0.035	22	110	37	IRLIZ34N-ND	1.49	1.06	.87
	55	0.035	22	110	37	IRLIZ34NPBF-ND†	2.25	1.45	1.13
	55	0.04	21	100	21	IRFIZ34NPBF-ND†	1.75	1.13	.88
	55	0.042	19	80	39	IRLIB4343-ND	2.48	1.65	1.25
	55	0.042	19	80	39	IRLIB4343PBF-ND†	2.56	1.65	1.28
	55	0.06	14	72	26	IRLIZ24NPBF-ND†	2.10	1.35	1.05
	55	0.07	14	—	26	IRFIZ24NPBF-ND†	1.58	1.02	.79
	60	0.012	39	290	43	IRFIZ48VPBF-ND†	3.11	2.08	1.66
	60	0.018	37	150	50	IRFIZ48GPBF-ND†	3.07	2.05	1.64
	60	0.028	20	120	30	IRFIZ34VPBF-ND†	2.00	1.29	1.00
	60	0.042	21	100	37	IRFIZ34EPBF-ND†	2.38	1.53	1.19
	60	0.05	20	80	42	IRFIZ34G-ND	1.43	1.14	.81
	60	0.05	20	80	42	IRFIZ34GPBF-ND†	2.00	1.29	1.00
	60	0.071	14	68	29	IRFIZ24EPBF-ND†	2.27	1.46	1.14
	60	0.082	30	120	48	IRFIZ44G-ND	2.35	1.88	1.20
	60	0.082	30	120	48	IRFIZ44GPBF-ND†	3.29	2.12	1.65
	60	0.1	14	56	37	IRFIZ24GPBF-ND†	2.02	1.30	1.01
	60	0.2	8	32	27	IRFIZ14GPBF-ND†	1.73	1.09	.81
	100	0.036	24	140	45	IRFI1310NPBF-ND†	2.81	1.87	1.50
	100	0.044	20	120	42	IRLI540NPBF-ND†	2.87	1.85	1.44
	100	0.052	20	110	42	IRFI540NPBF-ND†	2.47	1.59	1.24
	100	0.077	17	68	48	IRFI540G-ND	1.95	1.56	1.11
	100	0.077	17	68	48	IRFI540GPBF-ND†	2.33	1.56	1.25
	100	0.1	11	60	33	IRLI530N-ND	1.80	1.17	.89
	100	0.1	11	60	33	IRLI530NPBF-ND†	1.82	1.17	.91
	100	0.11	11	60	33	IRFI530NPBF-ND†	2.00	1.29	1.00
	100	0.16	9.7	39	42	IRFI530G-ND	1.55	1.24	.89
	100	0.16	9.7	39	42	IRFI530GPBF-ND†	2.17	1.40	1.09
	100	0.16	9.7	39	42	IRLI530G-ND	1.56	1.25	.89
	100	0.16	9.7	39	42	IRLI530GPBF-ND†	2.18	1.41	1.10
	100	0.18	8.1	35	27	IRLI520N-ND	1.20	.85	.70
	100	0.18	8.1	35	27	IRLI520NPBF-ND†	1.75	1.13	.88
	100	0.27	7.2	29	37	IRLI520G-ND	1.18	.95	.68
	100	0.27	7.2	29	37	IRLI520GPBF-ND†	1.66	1.07	.83
	100	0.27	7.2	29	37	IRFI520GPBF-ND†	1.81	1.17	.91
	100	0.54	4.5	18	27	IRFI510GPBF-ND†	1.68	1.08	.84
	100	0.2	7.6	38	27	IRFI520NPBF-ND†	1.79	1.15	.90
	150	0.045	41	164	48	IRFIB41N15DPBF-ND†	4.11	2.74	2.20
	200	0.18	9.8	39	40	IRFI640GPBF-ND†	3.90	2.60	2.08
	200	0.4	5.9	24	35	IRFI630GPBF-ND†	2.14	1.38	1.07
	200	0.8	4.1	16	30	IRFI620G-ND	1.13	.91	.65
	200	0.8	4.1	16	30	IRFI620GPBF-ND†	2.17	1.40	1.09
	200	0.8	4.1	16	30	IRLI620G-ND	1.58	1.26	.90
	200	0.8	4.1	16	30	IRLI620GPBF-ND†	2.21	1.42	1.11
	250	0.28	7.9	32	40	IRFI644G-ND	3.23	2.58	1.84
	250	0.28	7.9	32	40	IRFI644GPBF-ND†	3.87	2.58	2.07
	250	0.45	5.6	22	35	IRFI634GPBF-ND†	2.28	1.47	1.14
	250	1.1	3.4	14	30	IRFI624G-ND	1.58	1.26	.90
	250	1.1	3.4	14	30	IRFI624GPBF-ND†	2.21	1.42	1.11
	250	2	2.1	8.4	23	IRFI614GPBF-ND†	1.75	1.13	.88
	400	0.55	5.4	22	40	IRFI740G-ND	2.09	1.68	1.26
	400	0.55	5.4	22	40	IRFI740GPBF-ND†	2.51	1.68	1.34
	400	0.55	5.7	23	40	IRFI740GLCPBF-ND†	3.05	2.04	1.63
	400	1	3.7	15	35	IRFI730GPBF-ND†	2.17	1.40	1.09
	400	1.8	2.6	10	30	IRFI720G-ND	1.60	1.28	1.12
	400	1.8	2.6	10	30	IRFI720GPBF-ND†	2.24	1.44	1.12
	450	0.63	4.9	20	40	IRFI744GPBF-ND†	3.49	2.25	1.75
	450	1.2	3.4	14	35	IRFI734G-ND	2.50	2.00	1.50
	450	1.2	3.4	14	35	IRFI734GPBF-ND†	3.50	2.25	1.75
	500	0.29	6.7	27	45	IRFIB8N50K-ND	6.35	4.87	3.50
	500	0.29	6.7	27	45	IRFIB8N50KPBF-ND†	6.35	4.24	3.39
	500	0.32	6.8	27	46	IRFIB7N50LPBF-ND†	3.11	2.08	1.66
	500	0.52	6.6	44	60	IRFIB7N50A-ND	2.18	1.74	1.24
	500	0.52	6.6	44	60	IRFIB7N50APBF-ND†	2.61	1.74	1.40
	500	0.67	4.7	16	42	IRFIB5N50LPBF-ND†	2.82	1.88	1.51
	500	0.85	4.6	18	40	IRFI840GPBF-ND†	2.78	1.86	1.49
	500	0.85	4.5	18	40	IRFI840GLCPBF-ND†	3.32	2.22	1.78
	500	1.5	3.1	12	35	IRFI830GPBF-ND†	2.26	1.46	1.13
	500	3	2.1	8.4	30	IRFI820G-ND	2.25	1.80	1.29
	500	3	2.1	8.4	30	IRFI820GPBF-ND†	3.15	2.03	1.58
	600	0.75	5.5	37	60	IRFIB6N60APBF-ND†	2.58	1.72	1.38
	600	1.2	3.5	14	40	IRFIBC40G-ND	2.55	2.04	1.46
	600	1.2	3.5	14	40	IRFIBC40GPBF-ND†	3.06	2.04	1.64
	600	1.2	3.5	14	40	IRFIBC40GLC-ND	4.07	3.26	2.45
	600	1.2	3.5	14	40	IRFIBC40GLCPBF-ND†	4.89	3.26	2.61
	600	2.2	2.5	10	35	IRFIBC30G-ND	2.60	2.08	1.49
	600	2.2	2.5	10	35	IRFIBC30GPBF-ND†	3.12	2.08	1.67
	600	4.4	1.7	6.8	30	IRFIBC20G-ND	2.20	1.76	1.26
	600	4.4	1.7	6.8	30	IRFIBC20GPBF-ND†	3.08	1.98	1.54

† RoHS Compliant

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
2	650	0.93	5.1	21	60	IRFIB5N65APBF-ND†	3.06	2.04	1.64
	800	3.0	2.1	8.4	35	IRFIBE30GPBF-ND†	2.76	1.84	1.48
	800	6.5	1.4	5.6	30	IRFIBE20G-ND	2.38	1.91	1.37
	800	6.5	1.4	5.6	30	IRFIBE20GPBF-ND†	3.33	2.14	1.67
	900	3.7	1.9	7.6	35	IRFIBF30GPBF-ND†	3.90	2.60	2.08
	900	8	1.2	4.8	30	IRFIBF20G-ND	1.87	1.50	1.08
	900	8	1.2	4.8	30	IRFIBF20GPBF-ND†	2.61	1.69	1.31
TO-220 Fullpak Logic Level									
2	60	0.2	8.0	32	27	IRLIZ14GPBF-ND†	1.67	1.08	.84
	60	0.028	30	120	48	IRLIZ44G-ND	2.25	1.80	1.28
	60	0.028	30	120	48	IRLIZ44GPBF-ND†	2.69	1.80	1.44
	60	0.05	20	80	42	IRLIZ34GPBF-ND†	2.73	1.76	1.37
	100	0.026	31	190	63	IRLI2910-ND	4.00	3.20	2.40
	100	0.026	31	190	63	IRLI2910PBF-ND†	4.80	3.20	2.56
	150	0.085	14	56	45	IRLI3615PBF-ND†	2.03	1.31	1.02
	200	0.18	9.9	40	40	IRLI640G-ND	2.16	1.73	1.24
	200	0.18	9.9	40	40	IRLI640GPBF-ND†	2.59	1.73	1.39
	200	0.4	6.2	25	35	IRLI630G-ND	1.62	1.30	.93
	200	0.4	6.2	25	35	IRLI630GPBF-ND†	2.27	1.46	1.14
SUPER TO-220 Logic Level									
7	30	0.005	179	720	270	IRLBA3803P-ND	4.08	3.26	2.45
	30	0.005	179	720	270	IRLBA3803PPBF-ND†	4.89	3.26	2.61
	40	0.004	185	740	300	IRLBA1304P-ND	7.15	5.72	4.29
	40	0.004	185	740	300	IRLBA1304PPBF-ND†	8.58	5.72	4.58
TO-220-5 Current Sense									
8	55	0.04	17	68	60	IRCZ24PBF-ND†	3.08	1.98	1.54
	60	0.05	30	120	88	IRCZ34PBF-ND†	3.40	2.19	1.70
	60	0.028	50	210	150	IRCZ44PBF-ND†	3.25	2.17	1.74
	100	0.077	28	110	150	IRC540PBF-ND†	3.21	2.14	1.72
	100	0.16	14	56	88	IRC530-ND	2.20	1.76	1.26
	100	0.16	14	56	88	IRC530PBF-ND†	3.08	1.98	1.54
	200	0.18	18	72	125	IRC640-ND	4.06	3.25	2.32
	200	0.18	18	72	125	IRC640PBF-ND†	4.87	3.25	2.60
	200	0.4	9.0	36	74	IRC630-ND	2.55	2.04	1.53
	200	0.4	9.0	36	74	IRC630PBF-ND†	3.06	2.04	1.64
	250	0.28	14.0	56	125	IRC644-ND	3.38	2.70	2.03
	250	0.28	14.0	56	125	IRC644PBF-ND†	4.05	2.70	2.16
	250	0.45	8.1	32	74	IRC634-ND	2.35	1.88	1.41
	250	0.45	8.1	32	74	IRC634PBF-ND†	3.29	2.12	1.65
	400	0.55	10.0	40	125	IRC740-ND	2.99	2.40	1.80
	400	0.55	10.0	40	125	IRC740PBF-ND†	3.59	2.40	1.92
	400	1	5.5	22	74	IRC730-ND	2.88	2.31	1.73
	400	1	5.5	22	74	IRC730PBF-ND†	3.40	2.19	1.70
	500	0.85	8.0	32	125	IRC840-ND	3.65	2.92	2.19
	500	0.85	8.0	32	125	IRC840PBF-ND†	4.38	2.92	2.34
	500	1.5	4.5	18	74	IRC830-ND	2.48	1.98	1.49
	500	1.5	4.5	18	74	IRC830PBF-ND†	3.47	2.23	1.74
TO-247AC									
3	30	0.0028	210	1000	230	IRFP3703PBF-ND†	5.08	3.76	3.05
	55	0.008	110	390	150	IRFP064NPBF-ND†	4.50	3.50	2.90
	55	0.012	81	290	130	IRFP054NPBF-ND†	7.30	5.41	4.38
	55	0.016	64	210	140	IRFP048NPBF-ND†	5.46	3.64	2.92
	55	0.024	53	180	100	IRFP044N-ND	2.63	1.82	1.46
	55	0.024	53	180	100	IRFP044NPBF-ND†	3.90	2.60	2.08
	55	0.0053	95	640	310	IRFP1405-ND	5.63	3.86	3.34
	55	0.0053	95	640	310	IRFP1405PBF-ND†	6.26	4.18	3.34
	60	0.0055	130	520	250	IRFP064VPBF-ND†	6.98	4.66	3.73
	60	0.009	70	520	300	IRFP064-ND	6.75	5.40	3.86
	60	0.009	70	520	300	IRFP064PBF-ND†	6.08	4.73	3.92
	60	0.009	93	360	180	IRFP054VPBF-ND†	7.00	5.18	4.20
	60	0.014	70	360	230	IRFP054-ND	3.74	2.99	2.14
	60	0.014	70	360	230	IRFP054PBF-ND†	3.74	2.77	2.25
	60	0.018	70	290	190	IRFP048PBF-ND†	5.43	3.62	2.90
	60	0.018	70	290	190	IRFP048RPBF-ND†	5.46	3.64	2.92
	60	0.028	57	230	180	IRFP044PBF-ND†	3.11	2.07	1.66
	75	0.0045	209	840	470	IRFP2907PBF-ND†	6.60	4.89	3.96
	75	0.0045	90	680	310	IRFP2907ZPBF-ND†	6.25	4.63	3.75
	100	0.014	72	300	190	IRFP4710PBF-ND†	3.48	2.32	1.86
	100	0.024	46	230	140	IRFP150VPBF-ND†	4.68	3.12	2.50
	100	0.025	57	180	200	IRFP3710-ND	4.00	3.20	2.29
	100	0.025	57	180	200	IRFP3710PBF-ND†	4.80	3.20	2.56
	100	0.036	42	140	140	IRFP150NPBF-ND†	1.95	1.30	1.04
	100	0.052	33	110	94	IRFP140N-ND	2.30	1.63	1.35
	100	0.052	33	110	94	IRFP140NPBF-ND†	2.87	1.92	1.54
	100	0.077	31	120	180	IRFP140PBF-ND†	4.47	2.98	2.39
	100	0.055	41	160	230	IRFP150PBF-ND†	3.77	2.51	2.01
	150	0.042	43	150	200	IRFP3415-ND	3.45	2.41	1.86
	150	0.042	43	150	200	IRFP3415PBF-ND†	3.39	2.26	1.81
	200	0.023	94	380	580	IRFP90N20DPBF-ND†	6.08	4.50	3.65
	200	0.04	50	200	300	IRFP260NPBF-ND†	4.99	3.70	3.00
	200	0.055	46	180	280	IRFP260PBF-ND†	4.33	2.89	2.32
	200	0.075	30	120	214	IRFP250N-ND	3.48	2.78	2.44
	200	0.075	30	120	214	IRFP250NPBF-ND†	4.17	2.78	2.23
	200	0.085	30	120	190	IRFP250PBF-ND†	2.57	1.72	1.38
	200	0.18	20	—	150	IRFP240PBF-ND†	3.21	2.14	1.72
	250	0.03	60	240	430	IRFP4232PBF-ND†	8.35	6.02	5.01
	250	0.06	44	170	380	IRFP264NPBF-ND†	3.60	2.40	1.92
	250	0.075	38	—	280	IRFP264-ND	5.16	3.89	3.25
	250	0.075	38	—	280	IRFP264PBF-ND†	5.63	4.17	3.38
	250	0.125	23	92	220	IRFP254NPBF-ND†	4.85	3.24	2.59

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
3	250	0.14	23	92	190	IRFP254-ND	3.55	2.85	2.03
	250	0.14	23	92	190	IRFP254PBF-ND†	4.26	2.85	2.28
	250	0.28	15	—	150	IRFP244PBF-ND†	3.95	2.64	2.11
	400	0.2	23	92	280	IRFP360-ND	5.53	3.92	3.23
	400	0.2	23	92	280	IRFP360PBF-ND†	6.92	4.62	3.69
	400	0.2	23	92	280	IRFP360LCPBF-ND†	12.25	9.07	7.35
	400	0.3	16	64	190	IRFP350-ND	3.83	2.78	2.28
	400	0.3	16	64	190	IRFP350PBF-ND†	4.56	3.04	2.44
	400	0.3	16	64	190	IRFP350LC-ND	5.83	4.67	3.50
	400	0.3	16	64	190	IRFP350LCPBF-ND†	5.83	4.32	3.50
	450	0.35	14	56	190	IRFP354-ND	6.20	4.96	3.54
	400	0.55	11	—	150	IRFP340-ND	3.78	2.68	2.21
	400	0.55	11	—	150	IRFP340PBF-ND†	4.73	3.15	2.52
	450	0.63	9.5	38	150	IRFP344-ND	4.08	3.26	2.33
	450	0.63	9.5	38	150	IRFP344PBF-ND†	4.89	3.26	2.61
	500	0.135	32	130	460	IRFP32N50KPBF-ND†	8.40	6.22	5.04
	500	0.15	31	124	460	IRFP31N50LPBF-ND†	9.00	6.66	5.40
	500	0.19	23	92	370	IRFP23N50LPBF-ND†	6.00	4.44	3.60
	500	0.23	22	88	277	IRFP22N50A-ND	4.33	3.46	2.45
	500	0.23	22	88	277	IRFP22N50APBF-ND†	4.33	3.21	2.60
	500	0.24	20	80	280	IRFP460NPBF-ND†	7.00	5.18	4.20
	500	0.27	20	80	280	IRFP460APBF-ND†	5.54	4.11	3.33
	500	0.27	20	80	280	IRFP460PBF-ND†	3.10	2.30	1.86
	500	0.27	20	80	280	IRFP460LC-ND	5.08	4.06	3.56
	500	0.27	20	80	280	IRFP460LCPBF-ND†	5.08	3.76	3.05
	500	0.27	20	80	280	IRFP460P-ND	6.20	4.47	3.72
	500	0.28	16	64	220	IRFP17N50LPBF-ND†	4.38	3.24	2.63
	500	0.37	14	56	200	IRFP450NPBF-ND†	5.28	3.52	2.82
	500	0.4	14	—	190	IRFP450IR-ND	3.69	2.65	2.16
	500	0.4	14	—	190	IRFP450PBF-ND†	4.28	2.86	2.29
	500	0.4	14	56	190	IRFP450A-ND	3.47	2.78	1.99
	500	0.4	14	56	190	IRFP450APBF-ND†	4.16	2.78	2.23
	500	0.4	14	56	190	IRFP450LC-ND	7.09	5.68	4.97
	500	0.4	14	56	190	IRFP450LCPBF-ND†	7.09	5.25	4.26
	500	0.6	11	44	180	IRFP448-ND	3.31	2.65	1.90
	500	0.6	11	44	180	IRFP448PBF-ND†	3.31	2.45	1.99
	500	0.85	8.8	—	150	IRFP440-ND	2.76	1.96	1.61
	500	0.85	8.8	—	150	IRFP440PBF-ND†	2.88	2.13	1.73
	600	0.18	27	110	500	IRFP27N60KPBF-ND†	8.40	6.22	5.04
	600	0.21	26	100	470	IRFP26N60LPBF-ND†	9.00	7.00	5.80
	600	0.24	22	88	370	IRFP22N60KPBF-ND†	6.43	4.76	3.86
	600	0.27	21	84	330	IRFP21N60LPBF-ND†	7.40	5.48	4.44
	600	0.385	15	60	280	IRFP15N60LPBF-ND†	7.38	4.92	3.94
	600	0.4	16	64	280	IRFPC60PBF-ND†	8.57	6.34	5.15
	600	0.4	16	64	280	IRFPC60LCPBF-ND†	4.84	3.77	3.12
	600	0.58	11	44	180	IRFPC50APBF-ND†	5.75	4.26	3.45
	600	0.6	11	44	180	IRFPC50-ND	5.52	3.91	3.22
	600	0.6	11	44	180	IRFPC50PBF-ND†	6.90	4.60	3.68
	600	0.6	11	44	190	IRFPC50LC-ND	6.25	5.00	3.75
	600	0.6	11	44	190	IRFPC50LCPBF-ND†	6.25	4.63	3.75
	600	0.82	8.9	36	170	IRFPC48-ND	12.73	10.18	7.27
	600	1.2	6.8	27	150	IRFPC40PBF-ND†	3.30	2.44	1.98
	800	1.2	7.8	—	190	IRFPE50-ND	6.48	4.59	3.78
	800	1.2	7.8	—	190	IRFPE50PBF-ND†	6.75	5.00	4.05
	800	2	5.4	22	150	IRFPE40-ND	3.41	2.73	1.96
	800	2	5.4	22	150	IRFPE40PBF-ND†	3.41	2.53	2.05
	800	3	4.1	16	125	IRFPE30-ND	5.00	4.00	2.86
	800	3	4.1	16	125	IRFPE30PBF-ND†	5.00	3.70	3.00
	800	3	4.1	16	125	IRFPF30PBF-ND†	4.40	3.26	2.64
	900	1.6	6.7	27	190	IRFPF50-ND	6.75	5.40	3.86
	900	1.6	6.7	27	190	IRFPF50PBF-ND†	6.08	4.73	3.92
	900	2.5	4.7	19	150	IRFPF40-ND	3.34	2.67	1.91
	900	2.5	4.7	19	150	IRFPF40PBF-ND†	4.01	2.67	2.14
	1000	2	6.1	—	190	IRFPG50-ND	7.74	5.48	4.52
	1000	2	6.1	—	190	IRFPG50PBF-ND†	8.06	5.97	4.84
	1000	3.5	4.3	17	150	IRFPG40-ND	3.88	3.11	2.22
	1000	3.5	4.3	17	150	IRFPG40PBF-ND†	3.88	2.88	2.33
	1000	5	3.1	—	125	IRFPG30-ND	2.71	1.93	1.59
	1000	5	3.1	—	125	IRFPG30PBF-ND†	2.83	2.10	1.70
TO-262									
4	20	0.006	92	380	79	IRF3711ZCL-ND	1.82	1.16	.94
	20	0.006	92	380	79	IRF3711ZCLPBF-ND†	1.96	1.26	.98
	20	0.006	92	380	79	IRF3711ZL-ND	1.85	1.22	.93
	20	0.006	92	380	79	IRF3711ZLPBF-ND†	1.85	1.19	.93
	20	0.006	110	440	120	IRF3711L-ND	1.78	1.01	.82
	20	0.006	110	440	120	IRF3711LPBF-ND†	1.86	1.20	.93
	20	0.0079	67	260	57	IRF3704ZLPBF-ND†	1.80	1.13	.84
	20	0.0085	77	280	88	IRF3706L-ND	1.46	1.17	.88
	20	0.0085	77	280	88	IRF3706LPBF-ND†	2.05	1.32	1.03
	20	0.009	77	308	87	IRF3704LPBF-ND†	2.28	1.47	1.14
	20	0.011	50	200	45	IRL3715ZL-ND	1.50	.96	.72
	20	0.011	50	200	45	IRL3715ZLPBF-ND†	1.68	1.05	.78
	20	0.016	36	140	35	IRL3714ZL-ND	1.86	1.22	.93
	20	0.016	36	140	35	IRL3714ZLPBF-ND†	1.92	1.20	.89
	20	0.02	36	140	47	IRL3714L-ND	1.11	.65	.50
	20	0.02	36	140	47	IRL3714LPBF-ND†	1.08	.68	.50
	20	0.014	54	210	71	IRL3715L-ND	1.76	1.04	.80
	20	0.014	54	210	71	IRL3715LPBF-ND†	1.72	1.08	.80
	30	0.0033	75	960	200	IRF1503LPBF-ND†	3.30	2.20	1.76
	30	0.006	105	420	110	IRL8113L-ND	1.95	1.26	1.01

† *RoHS Compliant*

(Continued)

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
4	30	0.006	105	420	110	IRL8113LPBF-ND†	2.10	1.35	1.05
	30	0.006	140	470	200	IRL3803L-ND	3.38	2.70	2.03
	30	0.006	140	470	200	IRL3803LPBF-ND†	3.38	2.50	2.03
	30	0.0063	87	350	79	IRF3709ZCL-ND	1.87	1.19	.97
	30	0.0063	87	350	79	IRF3709ZCLPBF-ND†	2.03	1.31	1.02
	30	0.0063	87	350	79	IRF3709ZLPBF-ND†	2.17	1.40	1.09
	30	0.007	116	400	170	IRL2203NL-ND	4.02	3.22	2.42
	30	0.007	116	400	170	IRL2203NLPBF-ND†	4.83	3.22	2.58
	30	0.009	90	360	120	IRF3709L-ND	1.98	1.13	.92
	30	0.009	90	360	120	IRF3709LPBF-ND†	2.16	1.39	1.08
	30	0.0095	59	230	57	IRF3707ZCL-ND	1.76	1.12	.91
	30	0.0095	59	230	57	IRF3707ZCLPBF-ND†	1.75	1.13	.88
	30	0.0095	59	230	57	IRF3707ZL-ND	1.78	1.14	.92
	30	0.0095	59	230	57	IRF3707ZLPBF-ND†	1.89	1.22	.95
	30	0.012	62	248	87	IRF3708L-ND	1.44	.78	.70
	30	0.0125	62	248	87	IRF3707L-ND	1.63	1.30	.98
	30	0.0125	62	248	87	IRF3707LPBF-ND†	2.28	1.47	1.14
	40	0.002	75	1080	330	IRF2804L-ND	4.26	3.10	2.48
	40	0.0031	75	790	230	IRL1404ZL-ND	3.54	2.36	1.89
	40	0.0036	170	850	200	IRF2204LPBF-ND†	3.28	2.19	1.75
	40	0.0037	75	750	220	IRF1404ZL-ND	2.52	1.77	1.44
	40	0.004	160	640	3.8	IRL1404L-ND	2.93	2.04	1.58
	40	0.004	160	640	3.8	IRL1404LPBF-ND†	2.88	1.92	1.54
	40	0.004	162	650	200	IRF1404L-ND	3.80	3.05	2.29
	40	0.004	162	650	200	IRF1404LPBF-ND†	4.56	3.05	2.44
	40	0.0055	75	470	140	IRF4104L-ND	3.06	2.08	1.65
	40	0.0055	75	470	140	IRF4104LPBF-ND†	3.45	2.22	1.73
	40	0.0065	130	520	200	IRL1004L-ND	3.43	2.74	2.06
	40	0.0065	130	520	200	IRL1004LPBF-ND†	4.11	2.74	2.20
	40	0.008	104	416	167	IRL1104L-ND	2.30	1.84	1.38
	40	0.008	104	416	167	IRL1104LPBF-ND†	2.75	1.84	1.47
	40	0.009	100	40	170	IRF1104L-ND	2.30	1.84	1.38
	40	0.009	100	40	170	IRF1104LPBF-ND†	2.75	1.84	1.47
	55	0.0047	135	700	200	IRF2805LPBF-ND†	3.90	2.60	2.08
	55	0.005	75	600	230	IRF1405ZL-ND	4.28	3.00	2.36
	55	0.005	75	600	230	IRF1405ZLPBF-ND†	4.28	2.86	2.29
	55	0.0053	131	680	200	IRF1405LPBF-ND†	5.07	3.38	2.71
	55	0.007	75	440	170	IRF3205ZL-ND	3.87	2.62	2.03
	55	0.007	75	440	170	IRF3205ZLPBF-ND†	3.12	2.01	1.56
	55	0.075	75	360	140	IRF1010ZL-ND	2.91	1.98	1.57
	55	0.075	75	360	140	IRF1010ZLPBF-ND†	3.01	1.94	1.51
	55	0.008	75	340	130	IRL3705ZL-ND	2.46	1.59	1.29
	55	0.008	75	340	130	IRL3705ZLPBF-ND†	2.65	1.71	1.33
	55	0.008	104	360	200	IRL2505L-ND	3.00	2.40	1.80
	55	0.008	104	360	200	IRL2505LPBF-ND†	3.60	2.40	1.92
	55	0.008	110	390	200	IRF3205L-ND	7.00	5.60	4.20
	55	0.008	110	390	200	IRF3205LPBF-ND†	8.40	5.60	4.48
	55	0.011	61	240	91	IRFZ48ZL-ND	2.08	1.35	1.08
	55	0.011	61	240	91	IRFZ48ZLPBF-ND†	2.24	1.44	1.12
	55	0.011	85	290	170	IRF1010NL-ND	3.75	3.00	2.25
	55	0.011	85	290	170	IRF1010NLPBF-ND†	4.50	3.00	2.40
	55	0.0135	51	204	80	IRLZ44ZL-ND	1.91	1.26	.95
	55	0.0135	51	204	80	IRLZ44ZLPBF-ND†	1.91	1.24	.96
	55	0.0136	51	200	82	IRFZ46ZL-ND	1.95	1.26	1.01
	55	0.0136	51	200	82	IRFZ46ZLPBF-ND†	2.10	1.35	1.05
	55	0.0139	51	200	80	IRFZ44ZLPBF-ND†	2.09	1.35	1.05
	55	0.014	64	210	130	IRFZ48NLPBF-ND†	4.80	3.20	2.56
	55	0.0165	53	180	107	IRFZ46NLPBF-ND†	3.29	2.12	1.65
	55	0.022	47	160	110	IRLZ44NLPBF-ND†	2.87	1.85	1.44
	55	0.022	49	160	110	IRFZ44NLPBF-ND†	2.87	1.85	1.44
	55	0.035	30	110	68	IRLZ34NL-ND	1.70	1.36	1.02
	55	0.035	30	110	68	IRLZ34NLPBF-ND†	2.38	1.53	1.19
	55	0.04	29	100	68	IRFZ34NL-ND	1.46	1.17	.88
	55	0.04	29	100	68	IRFZ34NLPBF-ND†	2.05	1.32	1.03
	55	0.06	18	72	45	IRLZ24NL-ND	1.65	1.32	.99
	55	0.06	18	72	45	IRLZ24NLPBF-ND†	2.31	1.49	1.16
	55	0.07	17	68	45	IRFZ24NL-ND	1.10	.88	.66
	55	0.07	17	68	45	IRFZ24NLPBF-ND†	1.76	1.10	.82
	60	0.0085	75	340	140	IRF1010EZL-ND	2.89	1.96	1.56
	60	0.0085	75	340	140	IRF1010EZLPBF-ND†	3.01	1.94	1.51
	60	0.012	57	230	92	IRFZ44VZL-ND	2.08	1.35	1.08
	60	0.012	84	330	170	IRF1010EL-ND	3.88	3.10	2.33
	60	0.012	84	330	170	IRF1010ELPBF-ND†	4.65	3.10	2.48
	60	0.023	48	192	110	IRFZ44ELPBF-ND†	2.14	1.38	1.08
	60	0.028	30	120	70	IRFZ34VLPBF-ND†	1.86	1.17	.87
	60	0.05	30	120	88	IRFZ34L-ND	1.75	1.40	1.01
	60	0.06	17	68	44	IRFZ24VLPBF-ND†	1.89	1.22	.95
	75	0.0045	180	720	330	IRFSL3207-ND	4.57	3.32	2.66
	75	0.0063	130	510	250	IRFSL3307-ND	3.45	2.50	1.93
	75	0.007	106	550	200	IRF3808LPBF-ND†	4.11	2.74	2.20
	75	0.0078	100	520	—	IRF1407LPBF-ND†	2.52	1.68	1.35
	75	0.0088	97	390	190	IRFSL3507-ND	3.27	2.40	1.80
	75	0.0088	97	390	190	IRFSL3507PBF-ND†	3.27	2.40	1.80
	75	0.009	75	350	170	IRF2807ZL-ND	3.78	2.56	1.98
	75	0.009	75	350	170	IRF2807ZLPBF-ND†	3.40	2.19	1.70
	75	0.0126	62	320	120	IRF3007LPBF-ND†	2.67	1.72	1.34
	75	0.013	82	280	200	IRF2807L-ND	3.85	3.08	2.31
	100	0.007	140	550	330	IRFSL4310-ND	5.17	3.76	3.01
	100	0.01	96	380	250	IRFSL4410-ND	3.74	2.71	2.09
	100	0.014	73	290	190	IRFSL4610-ND	3.24	2.38	1.79
	100	0.014	73	290	190	IRFSL4610PBF-ND†	3.24	2.38	1.79
	100	0.014	75	300	200	IRFSL4710PBF-ND†	3.46	2.31	1.85

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
4	100	0.018	59	240	160	IRF3710ZLPBF-ND†	1.87	1.25	1.00
	100	0.025	57	180	200	IRF3710LPBF-ND†	6.75	4.50	3.60
	100	0.025	59	236	200	IRFSL59N10DPBF-ND†	3.57	2.38	1.91
	100	0.026	55	190	200	IRL2910L-ND	3.00	2.40	1.80
	100	0.026	55	190	200	IRL2910LPBF-ND†	3.00	2.22	1.80
	100	0.0265	36	140	92	IRF540ZL-ND	2.19	1.42	1.14
	100	0.0265	36	140	92	IRF540ZLPBF-ND†	2.28	1.47	1.14
	100	0.036	42	140	160	IRF1310NLPBF-ND†	4.19	2.79	2.24
	100	0.044	36	120	140	IRL540NLPBF-ND†	3.29	2.12	1.65
	100	0.052	33	110	140	IRF540NLPBF-ND†	3.18	2.05	1.60
	100	0.1	17	60	79	IRL530NL-ND	1.88	1.50	1.07
	100	0.1	17	60	79	IRL530NLPBF-ND†	2.63	1.69	1.32
	100	0.11	17	600	79	IRF530NL-ND	1.50	1.20	.90
	100	0.11	17	600	79	IRF530NLPBF-ND†	2.10	1.35	1.05
	100	0.165	9.6	37	44	IRF520VLPBF-ND†	2.10	1.35	1.05
	100	0.18	10	35	48	IRL520NL-ND	1.96	1.26	.98
	100	0.18	10	35	48	IRL520NLPBF-ND†	1.96	1.26	.98
	100	0.2	9.7	38	3.8	IRF520NL-ND	1.25	1.00	.75
	100	0.2	9.7	38	3.8	IRF520NLPBF-ND†	1.75	1.13	.88
	150	0.042	43	150	200	IRF3415L-ND	4.30	3.44	2.58
	150	0.042	43	150	200	IRF3415LPBF-ND†	5.16	3.44	2.76
	150	0.045	41	164	200	IRF3515L-ND	3.11	2.49	1.87
	150	0.045	41	164	200	IRF3515LPBF-ND†	3.73	2.49	2.00
	150	0.056	33	130	170	IRFSL33N15DPBF-ND†	3.40	2.19	1.71
	150	0.082	21	84	94	IRF3315L-ND	2.53	2.02	1.52
	150	0.082	21	84	94	IRF3315LPBF-ND†	3.03	2.02	1.62
	150	0.09	23	92	136	IRFSL23N15D-ND	2.50	2.00	1.50
	150	0.09	23	92	136	IRFSL23N15DPBF-ND†	3.50	2.25	1.75
	150	0.045	41	164	200	IRFSL41N15DPBF-ND†	3.42	2.28	1.83
	200	0.082	31	124	200	IRFSL31N20DPBF-ND†	4.20	2.80	2.24
	200	0.1	24	96	170	IRFSL23N20D-ND	2.48	1.99	1.49
	200	0.1	24	96	170	IRFSL23N20DPBF-ND†	3.47	2.24	1.74
	200	0.15	18	72	150	IRF640NL-ND	1.48	1.19	.89
	200	0.15	18	72	150	IRF640NLPBF-ND†	2.07	1.34	1.04
	200	0.17	16	64	140	IRFSL17N20D-ND	2.50	2.00	1.50
	200	0.17	16	64	140	IRFSL17N20DPBF-ND†	3.50	2.25	1.75
	200	0.18	18	72	130	IRF640LPBF-ND†	3.39	2.18	1.70
	200	0.30	9.3	37	82	IRF630NLPBF-ND†	2.45	1.58	1.23
	200	0.8	5.2	18	50	IRF620L-ND	1.46	1.17	.88
	200	1.5	3.3	10	36	IRF610L-ND	1.40	1.12	.84
	200	1.5	3.3	10	36	IRF610LPBF-ND†	1.96	1.26	.98
	250	0.24	14	56	150	IRF644NLPBF-ND†	2.45	1.58	1.23
	250	0.435	8.0	32	88	IRF634NLPBF-ND†	1.99	1.28	1.00
	250	1.1	4.4	14	50	IRF624L-ND	1.53	1.23	.92
	250	2	2.7	8.0	36	IRF614L-ND	1.24	.99	.74
	300	0.75	6.1	24	74	IRF737LCL-ND	1.76	1.41	1.06
	400	0.55	10	40	125	IRF740ALPBF-ND†	3.09	1.99	1.55
	400	0.55	10	32	125	IRF740LCL-ND	2.32	1.86	1.39
	400	1	5.5	22	74	IRF730L-ND	1.95	1.56	1.17
	400	1	5.5	22	74	IRF730AL-ND	1.51	1.21	.91
	400	1.8	3.3	13	50	IRF720L-ND	1.57	1.26	.95
	400	1.8	3.3	13	50	IRF720LPBF-ND†	2.20	1.42	1.11
	400	3.6	2.0	6.0	36	IRF710L-ND	1.19	.96	.72
	500	0.55	11	44	190	IRFSL11N50A-ND	1.80	1.44	1.08
	500	0.55	11	44	190	IRFSL11N50APBF-ND†	2.16	1.44	1.16
	500	1.4	4.5	20	3.1	IRF830L-ND	1.92	1.54	1.15
	500	1.4	4.5	20	3.1	IRF830LPBF-ND†	2.69	1.73	1.35
	500	0.85	8	28	125	IRF840L-ND	2.75	2.20	1.57
	500	0.85	8.0	28	125	IRF840LCL-ND	2.65	2.12	1.59
	500	0.85	8.0	28	125	IRF840LCLPBF-ND†	3.18	2.12	1.70
	500	0.85	8.0	32	125	IRF840AL-ND	2.50	2.00	1.50
	500	0.85	8.0	32	125	IRF840ALPBF-ND†	3.00	2.00	1.60
	500	1.4	5.0	20	74	IRF830AL-ND	1.60	1.28	.96
	500	1.4	5.0	20	74	IRF830ALPBF-ND†	2.24	1.44	1.12
	500	3	2.5	8.0	50	IRF820L-ND	1.48	1.18	.89
	500	3	2.5	8.0	50	IRF820LPBF-ND†	2.07	1.33	1.04
	500	3	2.5	10	50	IRF820AL-ND	1.22	.98	.73
	500	3	2.5	10	50	IRF820ALPBF-ND†	1.70	1.10	.86
	600	1.2	6.2	25	3.1	IRFBC40LCL-ND	3.83	3.06	2.30
	600	1.2	6.2	25	125	IRFBC40AL-ND	2.08	1.66	1.25
	600	1.2	6.2	25	130	IRFBC40L-ND	4.00	3.20	2.40
	600	1.2	6.2	25	130	IRFBC40LPBF-ND†	4.80	3.20	2.56
	600	2.2	3.6	14	74	IRFBC30ALPBF-ND†	2.00	1.29	1.00
	600	4.4	2.2	8.0	50	IRFBC20L-ND	2.35	1.88	1.41
	600	4.4	2.2	8.0	50	IRFBC20LPBF-ND†	3.29	2.12	1.65
	600	2.2	3.6	14	74	IRFBC30LPBF-ND†	3.30	2.20	1.76
	800	3	4.1	16	125	IRFBE30L-ND	2.30	1.84	1.38
	800	3	4.1	16	125	IRFBE30LPBF-ND†	3.22	2.07	1.61
	800	6.5	1.8	7.2	54	IRFBE20L-ND	1.67	1.34	1.00
	900	8	1.7	6.8	54	IRFBF20L-ND	2.00	1.60	1.20
	900	8	1.7	6.8	54	IRFBF20LPBF-ND†	2.80	1.80	1.40
TO-262 Logic Level									
4	20	.004	180	720	210	IRL3716LPBF-ND†	3.47	2.32	1.86
	20	.011	50	200	45	IRL3715ZCLPBF-ND†	1.72	1.08	.80
	30	.0038	150	600	140	IRL7833LPBF-ND†	2.05	1.32	1.03
	30	0.014	64	220	110	IRL3103LPBF-ND†	3.90	2.60	2.08
	30	0.026	38	140	68	IRL3303LPBF-ND†	3.43	2.21	1.72
	55	0.01	89	310	170	IRL3705NLPBF-ND†	4.83	3.22	2.58
	60	0.2	10	40	43	IRLZ14L-ND	1.17	.94	.68
	600	0.75	9.2	37	170	IRFSL9N60A-ND	2.28	1.82	1.60
	600	0.75	9.2	37	170	IRFSL9N60APBF-ND†	2.73	1.82	1.46

† RoHS Compliant

(Continued)

N and P Channel HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
I-Pak									
5	20	0.0057	93	370	79	IRFU3711ZPBF-ND†	1.93	1.21	.90
	20	0.0065	110	440	2.5	IRFU3711-ND	1.78	1.01	.82
	20	0.0065	110	440	2.5	IRFU3711PBF-ND†	1.86	1.20	.93
	20	0.0084	60	240	48	IRFU3704ZPBF-ND†	1.34	.84	.62
	20	0.009	75	280	88	IRFU3706-ND	1.44	.78	.70
	20	0.009	75	280	88	IRFU3706PBF-ND†	1.37	.88	.69
	20	0.0095	75	300	90	IRFU3704PBF-ND	1.56	.98	.73
	20	0.014	54	210	71	IRLU3715-ND	1.43	.85	.63
	20	0.014	54	210	71	IRLU3715PBF-ND†	1.36	.85	.63
	30	0.0065	86	340	79	IRFU3709ZPBF-ND†	1.68	1.05	.78
	30	0.009	90	360	120	IRFU3709-ND	1.78	1.01	.82
	30	0.009	90	360	120	IRFU3709PBF-ND†	1.86	1.20	.93
	30	0.0095	56	220	50	IRFU3707ZPBF-ND†	1.40	.88	.65
	30	0.0125	61	244	87	IRFU3708PBF-ND†	1.75	1.13	.88
	30	0.013	61	244	87	IRFU3707-ND	1.44	.78	.70
	30	0.013	61	244	87	IRFU3707PBF-ND†	1.37	.88	.69
	30	0.031	33	120	57	IRFU3303-ND	.87	.70	.50
	30	0.031	33	120	57	IRFU3303PBF-ND†	1.38	.87	.65
	40	0.0055	42	480	140	IRFU4104PBF-ND†	2.87	1.85	1.44
	40	0.009	42	310	90	IRFU3504Z-ND	1.69	1.11	.85
	40	0.009	42	310	90	IRFU3504ZPBF-ND†	1.93	1.21	.90
	40	0.0092	30	350	140	IRFU3504PBF-ND†	2.10	1.35	1.05
	50	0.1	15	—	—	IRFU020PBF-ND†	1.33	.86	.67
	55	0.0075	42	360	140	IRFU1010Z-ND	2.25	1.56	1.18
	55	0.0075	42	360	140	IRFU1010ZPBF-ND†	2.80	1.80	1.40
	55	0.011	42	250	91	IRFU48ZPBF-ND†	2.10	1.35	1.05
	55	0.012	42	360	130	IRLU3705Z-ND	2.20	1.53	1.15
	55	0.012	42	360	130	IRLU3705ZPBF-ND†	2.80	1.80	1.40
	55	0.057	26	80	79	IRLU4343-ND	1.44	.95	.71
	55	0.057	26	80	79	IRLU4343PBF-ND†	1.80	1.13	.84
	55	0.013	30	280	140	IRFU3505PBF-ND†	2.10	1.35	1.05
	55	0.0135	42	240	110	IRLU2905ZPBF-ND†	3.30	2.20	1.76
	55	0.0145	42	240	110	IRFU2905Z-ND	1.48	.98	.75
	55	0.0145	42	240	110	IRFU2905ZPBF-ND†	1.75	1.13	.88
	55	0.016	56	220	110	IRFU2405-ND	1.55	.90	.75
	55	0.016	56	220	110	IRFU2405PBF-ND†	1.58	1.02	.79
	55	0.025	30	120	48	IRFU4105Z-ND	1.20	.79	.61
	55	0.025	30	120	48	IRFU4105ZPBF-ND†	1.80	1.13	.84
	55	0.027	44	160	107	IRFU1205-ND	2.32	1.86	1.40
	55	0.027	44	160	107	IRFU1205PBF-ND†	3.24	2.09	1.63
	55	0.045	27	100	68	IRFU4105-ND	2.63	2.10	1.58
	55	0.045	27	100	68	IRFU4105PBF-ND†	3.15	2.10	1.68
	55	0.058	16	64	35	IRLU024Z-ND	1.33	.84	.60
	55	0.058	16	64	35	IRLU024ZPBF-ND†	1.60	1.00	.74
	55	0.075	17	68	45	IRFU024NPBF-ND†	1.37	.86	.64
	55	0.14	10	40	28	IRLU014N-ND	1.33	.70	.63
	55	0.14	10	40	28	IRLU014NPBF-ND†	1.40	.88	.65
	60	0.1	14	—	—	IRFU024PBF-ND†	1.55	1.00	.78
	60	0.14	14	—	—	IRLU024PBF-ND†	1.58	1.02	.79
	60	0.2	7.7	—	—	IRFU014-ND	.71	.57	.41
	60	0.2	7.7	—	—	IRFU014PBF-ND†	1.14	.71	.53
	75	0.026	42	170	110	IRFU2407PBF-ND†	1.59	1.03	.80
	80	0.014	70	280	140	IRFU3418PBF-ND†	3.00	2.00	1.60
	80	0.029	38	150	110	IRFU3518PBF-ND†	3.00	2.00	1.60
	100	0.018	42	220	140	IRFU3710Z-ND	2.17	1.48	1.14
	100	0.018	42	220	140	IRFU3710ZPBF-ND†	2.80	1.80	1.40
	100	0.025	48	190	140	IRFU3412PBF-ND†	2.00	1.29	1.00
	100	0.044	32	110	130	IRFU3411PBF-ND†	1.93	1.24	.97
	100	0.039	31	125	110	IRFU3410PBF-ND†	1.93	1.24	.97
	100	0.115	14	56	56	IRFU3911PBF-ND†	2.80	1.80	1.40
	100	0.115	16	60	79	IRFU3910PBF-ND†	2.73	1.76	1.37
	100	0.190	8.7	35	35	IRFU120Z-ND	1.16	.75	.56
	100	0.190	8.7	35	35	IRFU120ZPBF-ND†	1.60	1.00	.74
	100	0.2	9.4	38	48	IRFU120N-ND	.82	.66	.47
	100	0.2	9.4	38	48	IRFU120NPBF-ND†	1.31	.82	.61
	100	0.27	7.7	31	42	IRFU120IR-ND	1.10	.88	.63
	100	0.27	7.7	31	42	IRFU120PBF-ND†	1.76	1.10	.82
	100	0.54	4.3	17	25	IRFU110-ND	.90	.72	.54
	100	0.54	4.3	17	25	IRFU110PBF-ND†	1.44	.90	.67
	150	0.095	24	96	140	IRFU24N15DPBF-ND†	2.10	1.35	1.05
	150	0.125	18	72	110	IRFU18N15DPBF-ND†	2.05	1.32	1.03
	150	0.18	14	56	86	IRFU13N15D-ND	1.65	1.32	.99
	200	0.165	17	68	140	IRFU15N20DPBF-ND†	2.10	1.35	1.05
	200	0.235	13	52	110	IRFU13N20DPBF-ND†	2.02	1.30	1.01
	200	0.38	9.4	38	86	IRFU9N20D-ND	1.60	1.28	.96
	200	0.38	9.4	38	86	IRFU9N20DPBF-ND†	2.24	1.44	1.12
	200	0.6	5	20	43	IRFU220N-ND	.60	.48	.36
	200	0.6	5	20	43	IRFU220NPBF-ND†	.96	.60	.45
	200	0.8	4.8	19	42	IRFU220PBF-ND†	1.32	.83	.62
	200	1.5	2.6	10	25	IRFU210-ND	.74	.60	.43
	200	1.5	2.6	10	25	IRFU210PBF-ND†	1.19	.75	.55
	250	0.26	14	56	144	IRFU12N25D-ND	2.24	1.57	1.19
	250	0.26	14	56	144	IRFU12N25DPBF-ND†	2.49	1.60	1.25
	250	1.1	3.8	15	42	IRFU224-ND	1.13	.90	.68
	400	1.8	3.1	12	42	IRFU320PBF-ND†	1.40	.90	.70
	250	2.0	2.2	8.8	25	IRFU214PBF-ND†	1.60	1.00	.74
	400	1.8	3.1	12	42	IRFU320-ND	1.00	.80	.58
	400	3.6	1.7	6	25	IRFU310PBF-ND†	1.72	1.08	.80
5	500	1.7	5.0	20	110	IRFU430APBF-ND†	1.93	1.24	.97
	500	3	2.4	8	42	IRFU420-ND	1.29	.84	.64
	250	1.1	3.8	15	42	IRFU224PBF-ND†	1.80	1.13	.84
	500	3	2.4	8	42	IRFU420PBF-ND†	1.31	.85	.66
	500	3	3.3	10	83	IRFU420APBF-ND†	1.13	.71	.53
	600	0.007	1.4	5.6	36	IRFU1N60A-ND	.73	.58	.44
	600	0.007	1.4	5.6	36	IRFU1N60APBF-ND†	1.32	.83	.62
	600	4.4	2.0	8.0	42	IRFUC20-ND	2.00	1.60	1.20
	600	4.4	2.0	8.0	42	IRFUC20PBF-ND†	2.80	1.80	1.40
I-Pak Logic Level									
5	12	0.0085	84	320	88	IRLU3802PBF-ND†	1.75	1.13	.88
	20	0.004	120	460	89	IRLU3717PBF-ND†	1.78	1.15	.90
	20	0.011	49	200	40	IRLU3715ZPBF-ND†	1.33	.84	.62
	20	0.015	37	144	35	IRLU3714ZPBF-ND†	1.28	.80	.60
	20	0.02	36	140	47	IRLU3714PBF-ND†	1.08	.68	.50
	30	0.0033	161	620	140	IRLU7843PBF-ND†	2.03	1.31	1.02
	30	0.0066	94	380	89	IRLU8113PBF-ND†	2.03	1.31	1.02
	30	0.0068	110	120	140	IRLU8203PBF-ND†	2.10	1.35	1.05
	30	0.01	65	260	75	IRLU7821PBF-ND†	1.80	1.13	.84
	30	0.0138	43	170	40	IRLU7807ZPBF-ND†	1.19	.75	.55
	30	0.019	55	220	107	IRLU3103-ND	3.00	2.40	1.71
	30	0.019	55	220	107	IRLU3103PBF-ND†	3.60	2.40	1.92
	30	0.031	35	140	68	IRLU3303-ND	1.68	1.34	.96
	30	0.031	35	140	68	IRLU3303PBF-ND†	2.35	1.51	1.18
	30	0.045	23	96	45	IRLU2703-ND	.72	.58	.42
	30	0.045	23	96	45	IRLU2703PBF-ND†	1.15	.72	.54
	55	0.014	30	240	120	IRLU3915PBF-ND†	1.93	1.24	.97
	55	0.027	42	160	110	IRLU2905-ND	2.75	2.20	1.65
	55	0.027	42	160	110	IRLU2905PBF-ND†	3.30	2.20	1.76
	55	0.037	25	100	57	IRLU3105PBF-ND†	1.60	1.00	.74
	55	0.04	24	110	68	IRLU2705-ND	1.38	1.10	.83
	55	0.04	24	110	68	IRLU2705PBF-ND†	1.93	1.24	.97
	55	0.065	17	72	45	IRLU024NPBF-ND†	1.24	.78	.58
	60	0.2	7.7	—	—	IRLU014PBF-ND†	1.12	.70	.52
	80	0.028	30	150	120	IRLU2908PBF-ND†	2.10	1.35	1.05
	100	0.105	17	60	79	IRLU3410PBF-ND†	1.99	1.28	1.00
	100	0.185	10	35	48	IRLU120NPBF-ND†	1.76	1.10	.82
	100	0.27	7.7	31	42	IRLU120PBF-ND†	1.76	1.10	.82
	100	0.54	4.8	17	25	IRLU110-ND	.97	.78	.59
	100	0.54	4.8	17	25	IRLU110PBF-ND†	1.55	.97	.72
Super-220									
7	40	0.0037	206	650	300	IRFBA1404PPBF-ND†	7.50	5.00	4.00
	55	0.005	174	680	330	IRFBA1405PPBF-ND†	7.50	5.00	4.00
	200	0.023	98	390	650	IRFBA90N20DPBF-ND†	7.20	4.80	3.84
	500	0.023	24	96	340	IRFBA22N50APBF-ND†	6.80	5.04	4.08
Super-247									
9	500	0.087	46	180	540	IRFPS40N50L-ND	12.53	9.66	8.31
	500	0.087	46	180	540	IRFPS40N50LPBF-ND†	12.67	9.86	8.17
	100	0.009	170	670	580	IRFPS3810-ND	6.67	4.88	4.04
	100	0.009	170	670	580	IRFPS3810PBF-ND†	5.94	4.62	3.83
	150	0.015	105	390	441	IRFPS3815PBF-ND†	5.99	4.66	3.86
	500	0.078	47	190	540	IRFPS43N50K-ND	11.97	9.23	7.94
	500	0.078	47	190	540	IRFPS43N50KPBF-ND†	12.11	9.42	7.81
	500	0.125	34	140	450	IRFPS35N50LPBF-ND†	10.93	8.09	6.56
	500	0.13	36	144	446	IRFPS37N50APBF-ND†	10.45	7.74	6.27
	600	0.11	40	160	570	IRFPS40N60KPBF-ND†	12.44	9.68	8.02
	600	0.12	38	150	540	IRFPS38N60LPBF-ND†	17.04	13.26	10.99
	600	0.16	30	120	450	IRFPS30N60KPBF-ND†	11.85	8.78	7.12
	600	0.175	29	110	480	IRFPS29N60LPBF-ND†	11.36	8.84	7.32
4-Pin Dip									
6	50	0.2	1.7	—	—	IRFD010-ND	.63	.50	.36
	50	0.2	1.7	—	—	IRFD010PBF-ND†	1.00	.63	.47
	50	—	2.4	—	—	IRFD020PBF-ND†	1.93	1.24	.97
	60	0.1	2.5	20	1.3	IRFD024PBF-ND†	1.17	.76	.59
	60	0.2	1.7	14	1.3	IRFD014PBF-ND†	1.00	.63	.47
	100	0.27	1.3	10	1.3	IRFD123PBF-ND†	1.60	1.00	.74
	100	0.3	1.3	5.2	1.0	IRFD120-ND	1.26	.80	.60
	100	0.3	1.3	5.2	1.0	IRFD120PBF-ND†	1.36	.85	.63
	100	0.6	1.0	8.0	1.0	IRFD110-ND	.94	.59	.43
	100	0.6	1.0	8.0	1.0	IRFD110PBF-ND†	.96	.60	.45
	200	0.8	0.8	6.4	1.0	IRFD220-ND	1.08	.69	.52
	200	0.8	0.8	6.4	1.0	IRFD220PBF-ND†	1.20	.75	.56
	200	1.5	0.6	2.5	1.0	IRFD210PBF-ND†	1.00	.63	.47
	250	1.1	0.63	5	1	IRFD224-ND	1.08	.86	.61
	250	1.1	0.63	5	1	IRFD224PBF-ND†	1.72	1.08	.80
	250	2	0.45	3.6	1	IRFD214-ND	1.00	.80	.57
	250	2	0.45	3.6	1	IRFD214PBF-ND†	1.60	1.00	.74
	400	1.8	0.49	3.9	1	IRFD320PBF-ND†	1.16	.75	.58
	400	3.6	0.35	2.8	1	IRFD310PBF-ND†	1.88	1.18	.87
	500	3	0.46	3	1	IRFD420PBF-ND†	2.10	1.35	1.05
	600	4.4	0.32	2.6	1	IRFDC20PBF-ND†	2.23	1.44	1.12
4-Pin Dip Logic Level									
6	60	0.1	2.5	20	1.3	IRLD024PBF-ND†	1.23	.79	.62
	60	0.2	1.7	14	1.3	IRLD014-ND	1.04	.67	.51
	60	0.2	1.7	14	1.3	IRLD014PBF-ND†	1.16	.73	.54
	100	0.27	1.3	10	1.3	IRLD120PBF-ND†	1.24	.80	.63
	100	0.54	1	8	1.3	IRLD110PBF-ND†	.94	.61	.47

† RoHS Compliant

N and P Channel Surface Mount HEXFETs

Electrical characteristics at 25°C unless otherwise noted.
Dimensions shown in mm

Fig. 1 — D²Pak

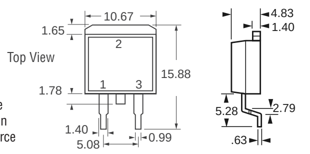

1. Gate
2. Drain
3. Source

Fig. 2 — DPak

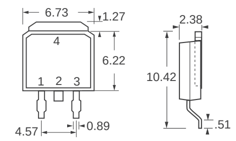

1. Gate
2. Drain
3. Source
4. Drain

Fig. 3 — Micro-3™ (SOT-23)

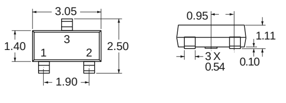

1. Gate 2. Source 3. Drain

Fig. 4 — Micro-6™/TSOP-6 Surface Mount

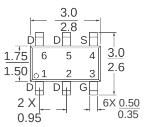

Fig. 5 — Micro-8™ Outline

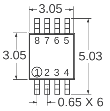

A	B	C
1. Source	1. Anode	1. Source 1
2. Source	2. Anode	2. Gate 1
3. Source	3. Source	3. Source 2
4. Gate	4. Gate	4. Gate 2
5. Drain	5. Cathode	5. Drain 2
6. Drain	6. Cathode	6. Drain 2
7. Drain	7. Drain	7. Drain 1
8. Drain	8. Drain	8. Drain 1

Fig. 6 — SOT-223

1. Gate
2. Drain
3. Source
4. Drain

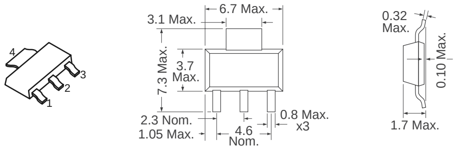

Fig. 7 — SO-8/SOIC-8

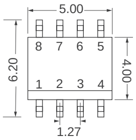

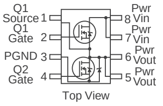

A	B	C	D	F	G	H	I
1. Source 1	1. Anode	1. Anode/Source	1. Source	1. Anode	1. Source 1	1. Anode	1. Source 2
2. Gate 1	2. Anode	2. Anode/Source	2. Source	2. Source	2. Gate 1	2. Anode	2. Gate 2
3. Source 2	3. Source	3. Anode/Source	3. Source	3. Source	3. Source 2	3. Source	3. Source 1
4. Gate 2	4. Gate	4. Gate	4. Gate	4. Gate	4. Gate 2	4. Gate	4. Gate 1
5. Drain 2	5. Drain	5. Cathode/Drain	5. Drain	5. Drain	5. Drain	5. Drain	5. Drain 1
6. Drain 2	6. Drain	6. Cathode/Drain	6. Drain	6. Drain	6. Drain	6. Drain	6. Drain 1
7. Drain 1	7. Drain	7. Cathode/Drain	7. Drain	7. Drain	7. Drain	7. Cathode	7. Cathode 2
8. Drain 1	8. Drain	8. Cathode/Drain	8. Drain	8. Drain	8. Drain	8. Cathode	8. Cathode 2

Fig. 8 — 8-TSSOP

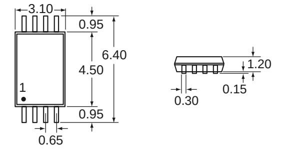

1. Drain 1
2. Source 1
3. Source 1
4. Gate 1
5. Gate 2
6. Source 2
7. Source 2
8. Drain 2

Fig. 9 — FlipFET™

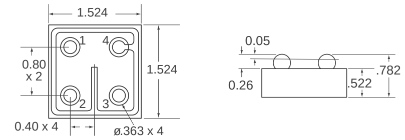

Fig. 10 — FlipFET™

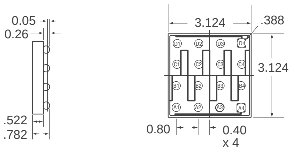

Fig. 11 — SOT-227

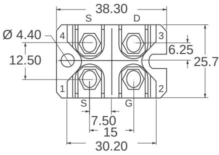

Fig. 12 — D²Pak-7

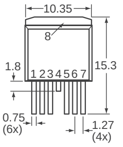

1. Gate
2. Source
3. Source
4. Drain
5. Source
6. Source
7. Source
8. Drain

Fig. 13 — DirectFET™

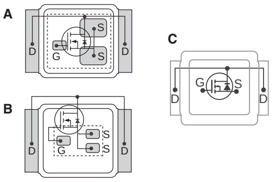

Fig. 14 — MTP

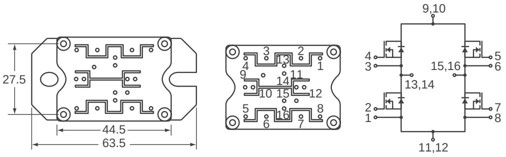

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
P-CHANNEL TYPES									
D²Pak									
1	-55	0.02	-74	-260	200	IRF4905S-ND	2.65	1.96	1.62
	-55	0.02	-74	-260	200	IRF4905STRL-ND	1276.00/800		
	-55	0.06	-31	-110	110	IRF5305S-ND	1.98	1.58	1.13
	-55	0.1	-19	-68	68	IRF9Z34NSTRL-ND	453.60/800		
	-55	0.175	-12	-48	45	IRF9Z24NS-ND	1.52	1.22	.88
	-60	0.14	-18	-72	88	IRF9Z34S-ND	1.30	1.04	.75
	-60	0.14	-18	-72	88	IRF9Z34STRL-ND	561.60/800		
	-60	0.28	-11	-44	60	IRF9Z24S-ND	1.00	.80	.58
	-60	0.28	-11	-44	60	IRF9Z24STRR-ND	432.00/800		
	-100	0.06	-40	-140	200	IRF5210S-ND	2.57	1.82	1.50
	-100	0.06	-40	-140	200	IRF5210STRL-ND	1597.60/800		
	-100	0.06	-40	-140	200	IRF5210STRR-ND	1156.00/800		
	-100	0.117	-23	-76	140	IRF9540NS-ND	1.36	.97	.80
	-100	0.117	-23	-76	140	IRF9540NSTRL-ND	610.40/800		
	-100	0.2	-19	-72	150	IRF9540S-ND	1.70	1.36	.97
	-100	0.2	-19	-72	150	IRF9540STRL-ND	1468.80/800		
	-100	0.3	-12	-48	88	IRF9530S-ND	1.25	1.00	.72
	-100	0.3	-12	-48	88	IRF9530STRL-ND	540.00/800		
	-100	0.48	-6.8	-27	48	IRF9520NS-ND	1.52	1.22	.87
	-100	0.6	-6.8	-27	60	IRF9520STRL-ND	392.00/800		
	-100	1.2	-4	-16	43	IRF9510S-ND	.92	.74	.53

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
1	-150	0.29	-13	-44	110	IRF6215STRR-ND	518.40/800		
	-200	0.5	-11	-44	125	IRF9640S-ND	1.78	1.42	1.02
	-200	0.5	-11	-44	125	IRF9640STRL-ND	767.20/800		
	-200	0.8	-6.5	-26	74	IRF9630S-ND	2.33	1.86	1.33
DPak (TO-252AA)									
2	-50	0.28	-9.9	—	—	IRFR9020-ND	.94	.75	.54
	-50	0.28	-9.9	—	—	IRFR9020PBFCT-ND†	1.31	.85	.66
	-50	0.28	-9.9	—	—	IRFR9020TR-ND	1012.00/2,000		
	-50	0.28	-9.9	—	—	IRFR9020PBFTR-ND†	1050.00/2,000		
	-50	0.5	-5.3	—	—	IRFR9010-ND	.70	.56	.41
	-50	0.5	-5.3	—	—	IRFR9010PBFCT-ND†	1.12	.70	.52
	-50	0.5	-5.3	—	—	IRFR9010PBFTR-ND†	812.00/2,000		
	-55	0.065	-31	-110	110	IRFR5305-ND	1.20	.85	.70
	-55	0.065	-31	-110	110	IRFR5305PBFCT-ND†	1.75	1.13	.88
	-55	0.065	-31	-110	110	IRFR5305PBFTR-ND†	1400.00/2,000		
	-55	0.11	-18	-64	57	IRFR5505-ND	1.33	1.06	.76
	-55	0.11	-18	-64	57	IRFR5505PBFCT-ND†	2.12	1.33	.99
	-55	0.11	-18	-64	57	IRFR5505PBFTR-ND†	1538.00/2,000		
	-55	0.175	-11	-44	38	IRFR9024N-ND	1.03	.66	.50
	-55	0.175	-11	-44	38	IRFR9024NPBFCT-ND†	1.17	.74	.55
	-55	0.175	-11	-44	38	IRFR9024NPBFTR-ND†	850.00/2,000		
	-60	0.28	-8.8	-35	42	IRFR9024-ND	1.25	.82	.63
	-60	0.28	-8.8	-35	42	IRFR9024PBFCT-ND†	1.31	.85	.66
	-60	0.28	-8.8	-35	42	IRFR9024TR-ND	1012.00/2,000		

† *RoHS Compliant*

(Continued)

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
2	-60	0.28	-8.8	-35	42	IRFR9024PBFTR-ND†	1050.00/2,000		
	-60	0.5	-5.1	-20	25	IRFR9014-ND	.70	.56	.41
	-60	0.5	-5.1	-20	25	IRFR9014PBFCT-ND	1.76	1.10	.82
	-60	0.5	-5.1	-20	25	IRFR9014TR-ND	1276.00/2,000		
	-60	0.5	-5.1	-20	25	IRFR9014PBFTR-ND†	1276.00/2,000		
	-60	0.5	-5.1	-20	25	IRFR9014TRL-ND	1782.00/3,000		
	-100	0.205	-13	-52	66	IRFR5410-ND	.73	.59	.44
	-100	0.205	-13	-52	66	IRFR5410PBFCT-ND†	3.40	2.19	1.70
	-100	0.205	-13	-52	66	IRFR5410PBFTR-ND†	2716.00/2,000		
	-100	0.48	-6.6	-26	40	IRFR9120N-ND	.72	.51	.42
	-100	0.48	-6.6	-26	40	IRFR9120NPBFCT-ND†	1.20	.75	.56
	-100	0.48	-6.6	-26	40	IRFR9120NTR-ND	820.00/2,000		
	-100	0.48	-6.6	-26	40	IRFR9120NPBFTR-ND†	870.00/2,000		
	-100	0.6	-5.6	-22	42	IRFR9120PBFCT-ND†	1.18	.77	.60
	-100	0.6	-5.6	-22	42	IRFR9120TR-ND	912.00/2,000		
	-100	0.6	-5.6	-22	42	IRFR9120PBFTR-ND†	946.00/2,000		
	-100	0.6	-5.6	-22	42	IRFR9120TRL-ND	1368.00/3,000		
	-100	1.2	-3.1	-12	25	IRFR9110-ND	.69	.55	.40
	-100	1.2	-3.1	-12	25	IRFR9110PBFCT-ND†	1.10	.69	.51
	-100	1.2	-3.1	-12	25	IRFR9110PBFTR-ND†	798.00/2,000		
	-100	1.2	-3.1	-12	25	IRFR9110TRL-ND	1863.00/3,000		
	-200	1.5	-3.6	-14	42	IRFR9220-ND	1.85	1.48	1.06
	-200	1.5	-3.6	-14	42	IRFR9220PBFCT-ND†	2.59	1.67	1.30
	-200	1.5	-3.6	-14	42	IRFR9220TR-ND	1976.00/2,000		
	-200	1.5	-3.6	-14	42	IRFR9220PBFTR-ND†	2072.00/2,000		
	-200	3	-1.9	-7.6	25	IRFR9210-ND	.75	.60	.45
	-200	3	-1.9	-7.6	25	IRFR9210PBFCT-ND†	1.20	.75	.56
	-200	3	-1.9	-7.6	25	IRFR9210TR-ND	810.00/2,000		
	-200	3	-1.9	-7.6	25	IRFR9210PBFTR-ND†	870.00/2,000		
	-250	3	-2.7	-11	50	IRFR9214-ND	.85	.68	.49
	-400	7	-1.8	-7.2	50	IRFR9310-ND	.82	.66	.47
	-400	7	-1.8	-7.2	50	IRFR9310PBFCT-ND†	1.15	.74	.58
	-400	7	-1.8	-7.2	50	IRFR9310PBFTR-ND†	918.00/2,000		
Micro-3 (SOT-23) Logic Level									
3	-12	0.05	-4.3	-34	1.3	IRLML6401PBFCT-ND†	.72	.42	.28
	-12	0.05	-4.3	-34	1.3	IRLML6401PBFTR-ND†	609.00/3,000		
	-20	0.065	-3.7	-22	1.3	IRLML6402PBFCT-ND†	.72	.42	.28
	-20	0.065	-3.7	-22	1.3	IRLML6402PBFTR-ND†	627.00/3,000		
	-20	0.6	-0.62	-4.9	0.54	IRLML6302CT-ND	.32	.24	.19
	-20	0.6	-0.62	-4.9	0.54	IRLML6302PBFCT-ND†	1.13	.66	.44
	-20	0.6	-0.62	-4.9	0.54	IRLML6302TR-ND	441.00/3,000		
	-20	0.6	-0.62	-4.9	0.54	IRLML6302PBFTR-ND†	957.00/3,000		
	-30	0.6	-0.61	-4.8	0.54	IRLML5103CT-ND	.33	.25	.20
	-30	0.6	-0.61	-4.8	0.54	IRLML5103PBFCT-ND†	.57	.33	.22
	-30	0.6	-0.61	-4.8	0.54	IRLML5103TR-ND	459.00/3,000		
	-30	0.6	-0.61	-4.8	0.54	IRLML5103PBFTR-ND†	495.00/3,000		
Micro -6 (TSOP-6)									
4	-20	0.065	-4.4	-20	2	SI3443DVCT-ND	.68	.54	.48
	-20	0.065	-4.4	-20	2	SI3443DVTR-ND	1122.00/3,000		
Micro-6 (TSOP-6) Logic Level									
4	-20	0.05	-5.6	-45	2	IRLMS6802PBFCT-ND†	1.24	.72	.48
	-20	0.05	-5.6	-45	2	IRLMS6802PBFTR-ND†	1044.00/3,000		
	-20	0.2	-2.3	-13	1.7	IRLMS6702PBFCT-ND†	.96	.60	.45
	-20	0.2	-2.3	-13	1.7	IRLMS6702PBFTR-ND†	1044.00/3,000		
	-30	0.2	-2.3	-13	1.7	IRLMS5703CT-ND	.70	.42	.33
	-30	0.2	-2.3	-13	1.7	IRLMS5703PBFCT-ND†	.72	.45	.34
	-30	0.2	-2.3	-13	1.7	IRLMS5703PBFTR-ND†	783.00/3,000		
Micro-8									
5A	-30	0.026	-7.0	-28	1.79	IRF7726CT-ND	1.24	.72	.60
	-30	0.026	-7.0	-28	1.79	IRF7726TR-ND	1996.00/4,000		
Micro-8 Logic Level									
5A	-20	0.02	-8.2	-66	1.8	IRF7663CT-ND	1.56	1.17	.91
	-20	0.02	-8.2	-66	1.8	IRF7663TR-ND	2676.00/4,000		
	-20	0.09	-3.6	-19	1.8	IRF7604CT-ND	2.37	1.78	1.39
	-20	0.09	-3.6	-19	1.8	IRF7604TR-ND	4268.00/4,000		
	-30	0.09	-3.6	-19	1.8	IRF7606CT-ND	2.10	1.58	1.23
	-30	0.09	-3.6	-19	1.8	IRF7606TR-ND	3780.00/4,000		
	-30	0.2	-2.0	-16	1.25	IRF7526D1TR-ND	1944.00/4,000		
5B	-20	0.055	-4.3	-34	1.25	IRF7534D1TR-ND	2052.00/4,000		
	-20	0.27	-1.7	-14	1.25	IRF7524D1CT-ND	1.20	.90	.70
	-20	0.27	-1.7	-14	1.25	IRF7524D1TR-ND	2160.00/4,000		
Micro-8 Dual Logic Level									
5C	-20	0.055	-4.3	-34	1.25	IRF7555CT-ND	2.10	1.58	1.23
	-20	0.055	-4.3	-34	1.25	IRF7555TR-ND	3780.00/4,000		
	-20	0.27	-1.7	-9.6	1.25	IRF7504CT-ND	.78	.59	.46
	-20	0.27	-1.7	-9.6	1.25	IRF7504TR-ND	1404.00/4,000		
	-30	0.27	-1.7	-9.6	1.25	IRF7506CT-ND	1.89	1.42	1.11
	-30	0.27	-1.7	-9.6	1.25	IRF7506TR-ND	3404.00/4,000		
SOT-223									
6	-60	0.5	-1.8	-14	3.1	IRFL9014-ND	.91	.60	.47
	-60	0.5	-1.8	-14	3.1	IRFL9014PBFCT-ND†	1.12	.70	.52
	-60	0.5	-1.8	-14	3.1	IRFL9014PBFTR-ND†	1015.00/2,500		
	-100	1.2	-1.1	-8.8	3.1	IRFL9110-ND	.60	.48	.35
	-100	1.2	-1.1	-8.8	3.1	IRFL9110PBFCT-ND†	.96	.60	.45
	-100	1.2	-1.1	-8.8	3.1	IRFL9110PBFTR-ND†	870.00/2,500		

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
SOIC-8									
7D	-12	0.007	-16	-65	2.5	IRF7410-ND	1.55	1.08	.84
	-12	0.014	-11.5	-46	2.5	IRF7420-ND	2.11	1.48	1.12
	-12	0.014	-11.5	-46	2.5	IRF7420PBFCT-ND†	2.35	1.51	1.18
	-12	0.014	-11.5	-46	2.5	IRF7420PBFTR-ND†	3620.00/4,000		
	-12	0.020	±9.5	±76	2.5	IRF7233-ND	2.83	2.26	1.70
	-12	0.020	±9.5	±76	2.5	IRF7233PBFCT-ND†	3.39	2.26	1.81
	-12	0.020	±9.5	±76	2.5	IRF7233PBFTR-ND†	6104.00/4,000		
	-12	0.024	-8.9	-36	2.5	IRF7433PBFCT-ND†	2.45	1.58	1.23
	-12	0.024	-8.9	-36	2.5	IRF7433PBFTR-ND†	3784.00/4,000		
	-20	0.0082	-15	-60	2.5	IRF7425-ND	2.18	1.24	1.01
	-20	0.06	-5.4	-43	2.5	IRF7207-ND	1.95	1.56	1.17
	-20	0.06	-5.4	-43	2.5	IRF7207PBFCT-ND†	2.73	1.76	1.37
	-20	0.06	-5.4	-43	2.5	IRF7207PBFTR-ND†	4212.00/4,000		
	-30	0.013	-11	-47	2.5	IRF7424-ND	1.74	.99	.81
	-30	0.013	-11	-47	2.5	IRF7424PBFCT-ND†	1.82	1.17	.91
	-30	0.013	-11	-47	2.5	IRF7424PBFTR-ND†	2912.00/4,000		
	-30	0.02	-5.6	-45	1	IRF7416-ND	1.22	.87	.72
	-30	0.02	-5.6	-45	1	IRF7416TR-ND	2544.00/4,000		
	-30	0.02	-10	-45	2.5	IRF7416PBF-ND†	3.45	2.30	1.84
	-40	0.015	-10.5	-43	2.5	IRF7240-ND	3.86	2.76	2.24
	-40	0.041	-6.2	-25	2.5	IRF7241PBFCT-ND†	2.73	1.76	1.37
	-40	0.041	-6.2	-25	2.5	IRF7241PBFTR-ND†	4212.00/4,000		
SOIC-8 Logic Level									
7D	-12	0.005	-16	-100	2.5	IRF7210-ND	3.13	2.50	1.78
	-14	0.012	-11	-88	2.5	IRF7220-ND	2.83	2.26	1.61
	-14	0.012	-11	-88	2.5	IRF7220PBFCT-ND†	1.23	.82	.66
	-14	0.012	-11	-88	2.5	IRF7220PBFTR-ND†	2216.00/4,000		
	-20	0.04	-6.7	-27	2.5	IRF7404-ND	.88	.71	.51
	-20	0.04	-6.7	-27	2.5	IRF7404PBFCT-ND†	1.23	.79	.62
	-20	0.04	-6.7	-27	2.5	IRF7404PBFTR-ND†	1896.00/4,000		
	-20	0.06	-5.3	-21	1.6	IRF7204CT-ND	2.34	1.76	1.37
	-20	0.06	-5.3	-21	1.6	IRF7204PBFCT-ND†	2.73	1.76	1.37
	-20	0.06	-5.3	-21	1.6	IRF7204PBFTR-ND†	4212.00/4,000		
	-30	0.02	-8	-50	2.5	SI4435DY-ND	1.50	1.20	.85
	-30	0.02	-8	-50	2.5	SI4435DYPBFCT-ND†	2.10	1.35	1.05
	-30	0.02	-8	-50	2.5	SI4435DYTR-ND	3240.00/4,000		
	-30	0.02	-8	-50	2.5	SI4435DYPBFTR-ND†	3360.00/4,000		
	-30	0.045	-5.8	-23	2.5	IRF7406-ND	1.15	.93	.67
	-30	0.045	-5.8	-23	2.5	IRF7406PBFCT-ND†	3.15	2.03	1.58
	-30	0.045	-5.8	-23	2.5	IRF7406PBFTR-ND†	4860.00/4,000		
	-30	0.07	-5.3	—	2.5	IRF7205-ND	1.11	.74	.58
	-30	0.07	-5.3	—	2.5	IRF7205PBFCT-ND†	1.23	.79	.62
	-30	0.07	-5.3	—	2.5	IRF7205PBFTR-ND†	1892.00/4,000		
SOIC-8 Dual Logic Level									
7A	-12	0.017	-9.2	-37	2	IRF7329-ND	2.01	1.06	.96
	-12	0.017	-9.2	-37	2	IRF7329PBFCT-ND†	3.15	2.03	1.58
	-12	0.017	-9.2	-37	2	IRF7329PBFTR-ND†	4860.00/4,000		
	-12	0.024	-7.8	-39	2	IRF7325PBFCT-ND†	2.45	1.58	1.23
	-12	0.024	-7.8	-39	2	IRF7325PBFTR-ND†	3780.00/4,000		
	-20	0.018	-9	-71	2	IRF7324PBFCT-ND†	3.39	2.26	1.81
	-20	0.018	-9	-71	2	IRF7324PBFTR-ND†	6104.00/4,000		
	-20	0.058	-5.3	-21	2	IRF7314-ND	.97	.69	.57
	-20	0.058	-5.3	-21	2	IRF7314PBFCT-ND†	1.21	.81	.65
	-20	0.058	-5.3	-21	2	IRF7314PBFTR-ND†	2176.00/4,000		
	-20	0.09	-4.3	-17	2	IRF7304-ND	.71	.57	.41
	-20	0.09	-4.3	-17	2	IRF7304PBFCT-ND†	1.13	.71	.53
	-20	0.09	-4.3	-17	2	IRF7304TR-ND	1436.00/4,000		
	-20	0.09	-4.3	-17	2	IRF7304PBFTR-ND†	1580.00/4,000		
	-20	0.25	-2.3	-10	2	IRF7104-ND	.77	.55	.45
	-20	0.25	-2.3	-10	2	IRF7104PBFCT-ND†	2.45	1.58	1.23
	-20	0.25	-2.3	-10	2	IRF7104PBFTR-ND†	3780.00/4,000		
	-30	0.021	-8.0	-32	2	IRF7328-ND	1.94	1.11	.90
	-30	0.021	-8.0	-32	2	IRF7328PBFCT-ND†	2.87	1.85	1.44
	-30	0.021	-8.0	-32	2	IRF7328PBFTR-ND	4424.00/4,000		
	-30	0.058	-4.9	-30	2	IRF7316-ND	.98	.70	.58
	-30	0.058	-4.9	-30	2	IRF7316PBFCT-ND†	1.22	.82	.66
	-30	0.058	-4.9	-30	2	IRF7316PBFTR-ND†	2204.00/4,000		
	-30	0.1	-3.6	-14	2	IRF7306-ND	.88	.70	.50
	-30	0.1	-3.6	-14	2	IRF7306PBFCT-ND†	1.23	.79	.62
	-30	0.1	-3.6	-14	2	IRF7306TR-ND	1892.00/4,000		
	-30	0.1	-3.6	-14	2	IRF7306PBFTR-ND†	1892.00/4,000		
	-30	0.25	-2.3	-10	2	IRF9953-ND	1.75	1.40	1.00
	-30	0.25	-2.3	-10	2	IRF9953PBFCT-ND†	2.45	1.58	1.23
	-30	0.25	-2.3	-10	2	IRF9953PBFTR-ND†	3780.00/4,000		
	-55	0.105	-3.4	-27	2	IRF7342-ND	1.06	.85	.61
	-55	0.105	-3.4	-27	2	IRF7342PBFCT-ND†	1.49	.96	.75
	-55	0.105	-3.4	-27	2	IRF7342PBFTR-ND†	2380.00/4,000		
SOIC-8 "Fetky™" Mosfet and Schottky Diode									
7H	-20	0.18	-2.9	-23	2	IRF7324D1-ND	2.83	2.26	1.55
	-20	0.18	-2.9	-23	2	IRF7324D1PBFCT-ND†	3.39	2.26	1.81
	-20	0.18	-2.9	-23	2	IRF7324D1PBFTR-ND†	6104.00/4,000		
	-20	0.058	-5.3	-43	2.0	IRF7322D1-ND	1.13	.90	.68
	-20	0.058	-5.3	-43	2.0	IRF7322D1PBFCT-ND†	1.80	1.13	.84
	-20	0.058	-5.3	-43	2.0	IRF7322D1PBFTR-ND†	2520.00/4,000		
	-30	0.062	-4.7	-38	2	IRF7321D2-ND	1.48	1.18	.80

† RoHS Compliant

(Continued)

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
7H	-30	0.062	-4.7	-38	2	IRF7321D2PBFCT-ND†	2.07	1.33	1.04
	-30	0.062	-4.7	-38	2	IRF7321D2PBFTR-ND†	3304.00/4,000		
SOIC-8 “Fetky™” Mosfet and Schottky Diode Logic Level									
7B	-20	0.09	-4.3	-18	2	IRF7422D2-ND	1.20	.85	.70
	-20	0.09	-4.3	-18	2	IRF7422D2PBFCT-ND†	1.75	1.13	.88
	-20	0.09	-4.3	-18	2	IRF7422D2PBFTR-ND†	2800.00/4,000		
TSSOP Dual-8									
8	-12	0.04	±4.3	-17	1.0	IRF7756-ND	1.47	.84	.68
	-20	0.03	±4.7	±38	1.0	IRF7750CT-ND	3.24	2.43	1.89
	-20	0.03	±4.7	±38	1.0	IRF7750TR-ND	5832.00/4,000		
FlipFET™									
9	-20	0.065	±5.1	±35	2.2	IRF6100CT-ND	1.08	.65	.50
10	-20	0.036	±7.1	±40	3.0	IRF6150CT-ND	2.95	2.06	1.59
	-20	0.036	±7.1	±40	3.0	IRF6150TR-ND	5024.00/4,000		
N-CHANNEL TYPES									
SOT-227									
11	100	0.0065	180	720	480	FB180SA10-ND	36.14	28.91	20.61
	500	0.08	57	228	625	FA57SA50LC-ND	51.50	41.20	30.90
	500	0.13	38	150	500	FA38SA50LC-ND	34.85	27.89	20.92
D^{2}Pak									
1	20	0.006	110	440	120	IRF3711S-ND	1.78	1.01	.82
	20	0.006	92	380	79	IRF3711ZS-ND	1.85	1.22	.93
	20	0.006	92	380	79	IRF3711ZCS-ND	1.93	1.27	.97
	20	0.008	67	260	57	IRF3704ZCS-ND	1.67	1.10	.84
	20	0.009	77	308	87	IRF3704S-ND	1.63	1.30	1.14
	30	0.009	90	360	120	IRF3709S-ND	2.16	1.39	1.08
	40	0.002	75	1080	330	IRF2804S-ND	5.20	3.78	3.03
	40	0.0036	170	850	200	IRF2204SPBF-ND†	3.28	2.19	1.75
	40	0.0037	75	750	220	IRF1404ZS-ND	2.53	1.78	1.44
	40	0.0055	75	470	140	IRF4104S-ND	3.06	2.08	1.65
	40	0.0055	75	470	140	IRF4104SPBF-ND†	3.45	2.22	1.73
	40	0.009	100	400	170	IRF1104S-ND	2.30	1.84	1.38
	55	0.0033	75	890	130	IRF3805S-ND	5.24	3.74	3.00
	55	0.005	75	600	230	IRF1405ZS-ND	4.28	3.00	2.36
	55	0.005	131	680	200	IRF1405S-ND	4.23	3.38	2.54
	55	0.075	75	360	140	IRF1010ZS-ND	2.91	1.98	1.57
	55	0.008	110	390	200	IRF3205S-ND	4.00	3.20	2.24
	55	0.008	110	390	200	IRF3205STRL-ND	3024.00/800		
	55	0.0136	51	200	82	IRFZ46ZSPBF-ND†	2.10	1.35	1.05
	55	0.0139	51	200	80	IRFZ44ZSPBF-ND†	2.09	1.35	1.05
	55	0.011	61	240	91	IRFZ48ZSPBF-ND†	2.24	1.44	1.12
	55	0.016	64	210	140	IRFZ48NS-ND	1.45	1.16	.83
	55	0.016	64	210	140	IRFZ48NSTRL-ND	624.00/800		
	55	0.016	64	210	140	IRFZ48NSTRR-ND	740.00/800		
	55	0.022	49	160	110	IRFZ44NSTRL-ND	539.20/800		
	55	0.04	29	100	68	IRFZ34NSTRL-ND	432.00/800		
	55	0.04	29	100	68	IRFZ34NSTRR-ND	432.00/800		
	60	0.0085	75	340	140	IRF1010EZSPBF-ND†	3.26	2.10	1.64
	60	0.012	57	230	92	IRFZ44VZS-ND	2.08	1.35	1.08
	60	0.012	72	290	150	IRFZ48VS-ND	1.70	.97	.80
	60	0.018	50	290	190	IRFZ48RSPBF-ND†	2.33	1.56	1.25
	60	0.023	48	192	110	IRFZ44ES-ND	1.15	.82	.68
	60	0.023	48	192	110	IRFZ44ESTRR-ND	744.00/800		
	60	0.028	50	200	150	IRFZ44S-ND	1.53	1.22	.87
	60	0.028	50	200	150	IRFZ44STRR-ND	971.20/800		
	60	0.028	30	120	70	IRFZ34VSPBF-ND†	1.86	1.17	.87
	60	0.06	17	68	44	IRFZ24VSPBF-ND†	1.72	1.08	.80
	60	0.1	17	68	60	IRFZ24S-ND	1.02	.82	.59
	60	0.2	10	40	43	IRFZ14S-ND	1.08	.86	.61
	75	0.0045	180	720	330	IRFS3207-ND	4.57	3.32	2.66
	75	0.0063	130	510	250	IRFS3307-ND	3.45	2.50	1.93
	75	0.0078	100	520	3.8	IRF1407S-ND	2.60	1.81	1.40
	75	0.0078	100	520	3.8	IRF1407SPBF-ND†	2.55	1.70	1.36
	75	0.0088	97	390	190	IRFS3507PBF-ND†	3.27	2.40	1.80
	75	0.0094	75	350	170	IRF2807ZS-ND	3.40	2.19	1.65
	75	0.0126	62	320	120	IRF3007SPBF-ND†	2.67	1.72	1.34
	75	0.013	71	280	150	IRF2807S-ND	2.89	1.99	1.58
	100	0.0070	140	550	330	IRFS4310-ND	5.17	3.76	3.01
	100	0.01	96	380	250	IRFS4410-ND	3.74	2.71	2.09
	100	0.015	80	320	260	IRF8010SPBF-ND†	3.66	2.44	1.96
	100	0.0265	36	140	92	IRF540ZS-ND	2.19	1.42	1.14
	100	0.036	42	140	160	IRF1310NS-ND	1.64	1.31	.94
	100	0.036	42	140	160	IRF1310NSTRL-ND	708.00/800		
	100	0.052	33	110	140	IRF540NSTRL-ND	1054.44/800		
	100	0.052	33	110	140	IRF540NSTRR-ND	604.80/800		
	100	0.077	28	110	150	IRF540STRL-ND	759.20/800		
	100	0.077	28	110	150	IRF540STRR-ND	759.20/800		
	100	0.11	17	80	79	IRF530NSTRL-ND	296.80/800		
	100	0.11	17	80	79	IRF530NSTRR-ND	296.80/800		
	100	0.16	14	56	88	IRF530S-ND	1.06	.85	.62
	100	0.16	14	56	88	IRF530STRR-ND	604.00/800		
	100	0.165	9.6	37	44	IRF520VSPBF-ND†	1.88	1.18	.87

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each		
							1	10	100
1	150	0.032	60	240	3.8	IRFS52N15DPBF-ND†	4.76	3.15	2.72
	150	0.042	43	150	200	IRF3415S-ND	1.51	1.08	.89
	150	0.042	43	150	200	IRF3415STRL-ND	680.80/800		
	150	0.082	21	84	94	IRF3315S-ND	1.49	1.06	.87
	150	0.082	21	84	94	IRF3315SPBF-ND†	1.86	1.24	1.00
	150	0.09	23	92	136	IRFS23N15D-ND	1.78	1.43	1.07
	200	0.082	31	124	200	IRFS31N20D-ND	3.19	2.55	1.92
	200	0.1	24	96	170	IRFS23N20D-ND	1.80	1.44	1.08
	200	0.15	18	72	150	IRF640NSTRL-ND	1036.00/800		
	200	0.15	18	72	150	IRF640NSTRR-ND	1112.44/800		
	200	0.3	9.3	37	82	IRF630NS-ND	1.72	1.38	1.21
	200	0.3	9.3	37	82	IRF630NSTRL-ND	459.20/800		
	200	0.8	5.2	18	50	IRF620S-ND	1.65	1.32	.95
	250	0.28	14	56	125	IRF644S-ND	3.24	2.30	1.89
	250	0.28	14	56	125	IRF644STRL-ND	656.80/800		
	250	0.45	8.1	—	74	IRF634S-ND	1.34	.95	.79
	250	1.1	4.4	—	50	IRF624S-ND	1.63	1.16	.96
	250	1.1	4.4	—	50	IRF624SPBF-ND†	2.38	1.53	1.19
	250	2	2.7	8	36	IRF614S-ND	1.40	1.12	.81
	300	0.75	6.1	24	74	IRF737LCS-ND	1.97	1.58	1.19
	400	0.55	10	40	125	IRF740STRL-ND	680.80/800		
	400	1	5.5	—	74	IRF730S-ND	1.61	1.14	.94
	400	3.6	2	6	36	IRF710S-ND	.76	.61	.44
	500	0.52	11	44	170	IRFS11N50A-ND	1.85	1.48	1.11
	500	0.85	8	32	125	IRF840AS-ND	1.66	1.33	.95
	500	1.4	5	20	74	IRF830AS-ND	1.23	.98	.70
	500	1.4	5	20	74	IRF830ASPBF-ND†	1.72	1.11	.86
	500	1.5	4.5	—	74	IRF830S-ND	1.34	.95	.79
	500	3	2.5	10	50	IRF820AS-ND	1.22	.98	.73
	500	3	2.5	10	50	IRF820ASPBF-ND†	1.94	1.22	.90
	600	0.75	9.2	37	170	IRFS9N60A-ND	2.05	1.64	1.23
	600	1.2	6.2	25	130	IRFBC40LCS-ND	3.76	3.01	2.26
	600	2.2	3.6	14	74	IRFBC30AS-ND	2.75	2.20	1.57
	600	2.2	3.6	14	74	IRFBC30S-ND	2.75	2.20	1.58
	600	2.2	3.6	14	74	IRFBC30SPBF-ND†	3.30	2.20	1.76
	600	4.4	2.2	8.0	50	IRFBC20S-ND	2.35	1.88	1.41
	800	3.0	4.1	16	125	IRFBE30SPBF-ND†	3.45	2.30	1.84
	800	6.5	1.8	—	54	IRFBE20S-ND	2.00	1.60	1.20
	900	8	1.7	6.8	54	IRFBF20S-ND	1.98	1.58	1.39
D^{2}Pak-7									
12	40	0.0016	160	1360	330	IRF2804S-7P-ND	5.61	3.93	3.37
	55	0.0026	160	1000	300	IRF3805S-7P-ND	6.47	4.63	3.70
	55	0.0049	120	590	230	IRF1405ZS-7P-ND	3.40	2.51	1.94
	75	0.0038	160	700	300	IRF2907ZS-7PPBF-ND†	5.01	3.64	2.92
D^{2}Pak Logic Level									
1	20	0.011	50	200	45	IRL3715ZCS-ND	1.60	.91	.75
	20	0.011	50	200	45	IRL3715ZS-ND	1.48	.84	.70
	20	0.014	54	210	71	IRL3715S-ND	1.27	.75	.57
	20	0.016	36	140	35	IRL3714ZS-ND	1.71	.98	.81
	20	0.016	36	140	35	IRL3714ZSCTL-ND	1.86	1.33	.93
	20	0.016	36	140	35	IRL3714ZSTRL-ND	636.00/800		
	20	0.02	36	140	47	IRL3714S-ND	1.11	.65	.50
	20	0.01	85	340	110	IRL3402S-ND	2.28	1.82	1.37
	20	0.013	61	240	89	IRL3102S-ND	1.22	.98	.70
	20	0.016	48	190	69	IRL3202S-ND	1.55	1.24	.89
	20	0.02	39	160	57	IRL3302S-ND	1.32	1.06	.76
	20	0.007	110	420	140	IRL3502S-ND	1.90	1.52	1.33
	20	0.007	110	420	140	IRL3502STRL-ND	820.80/800		
	20	0.004	180	720	210	IRL3716S-ND	2.28	1.56	1.18
	30	0.006	140	470	200	IRL3803S-ND	3.24	2.30	1.89
	30	0.006	140	470	200	IRL3803STRL-ND	1399.20/800		
	30	0.007	116	400	170	IRL2203NSTRL-ND	972.00/800		
	30	0.014	54	220	70	IRL3103D1S-ND	4.43	3.10	2.49
	30	0.014	64	220	110	IRL3103S-ND	3.12	2.21	1.82
	30	0.014	64	220	110	IRL3103STRL-ND	1456.00/800		
	30	0.026	34	140	68	IRL3303D1S-ND	1.75	1.40	1.05
	30	0.026	38	140	68	IRL3303S-ND	2.35	1.67	1.38
	40	0.0031	75	790	230	IRL1404ZS-ND	3.54	2.36	1.89
	40	0.004	160	640	3.8	IRL1404S-ND	3.00	2.10	1.64
	55	0.008	86	340	130	IRL3705ZS-ND	2.35	1.59	1.29
	55	0.008	86	340	130	IRL3705ZSCTL-ND	2.65	1.71	1.33
	55	0.008	86	340	130	IRL3705ZSTRL-ND	878.40/800		
	55	0.01	89	310	170	IRL3705NS-ND	4.40	3.09	2.49
	55	0.01	89	310	170	IRL3705NSTRL-ND	1737.60/800		
	55	0.0135	51	204	80	IRLZ44ZS-ND	1.91	1.37	1.21
	55	0.022	47	160	110	IRLZ44NSTRL-ND	449.60/800		
	55	0.022	47	160	110	IRLZ44NSTRR-ND	432.00/800		
	55	0.035	30	110	68	IRLZ34NSTRL-ND	451.20/800		
	60	0.1	14	56	42	IRLR024-ND	.90	.72	.52
	60	0.2	10	40	43	IRLZ14S-ND	1.15	.92	.66
	60	0.028	50	200	150	IRLZ44S-ND	1.52	1.22	.87
	60	0.028	50	200	150	IRLZ44STRR-ND	657.72/800		
	100	0.044	36	120	140	IRL540NSTRL-ND	620.80/800		
	100	0.1	17	60	79	IRL530NS-ND	1.01	.81	.58

† *RoHS Compliant*

(Continued)

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
1	100	0.1	17	60	79	IRL530NSTRL-ND	437.60/800		
	100	0.1	17	80	79	IRL530NSTRR-ND	460.80/800		
	100	0.16	15	60	88	IRL530STRR-ND	453.60/800		
	100	0.18	10	35	48	IRL520NS-ND	.81	.65	.46
	100	0.18	10	35	48	IRL520NSPBF-ND†	1.13	.73	.57
	100	0.18	10	35	48	IRL520NSTRL-ND	348.80/800		
	100	0.54	5.6	18	43	IRL510S-ND	.94	.76	.66
	200	0.4	9	36	74	IRL630SPBF-ND†	2.74	1.77	1.38
	200	0.4	9	36	74	IRL630STRL-ND	846.40/800		
						DPak			
2	20	0.006	100	440	2.5	IRFR3711-ND	1.78	1.01	.82
	20	0.006	100	440	2.5	IRFR3711PBFCT-ND†	2.12	1.33	.99
	20	0.006	100	440	2.5	IRFR3711PBFTR-ND†	1538.00/2,000		
	20	0.006	93	370	79	IRFR3711Z-ND	1.69	1.12	.85
	20	0.006	93	370	79	IRFR3711ZPBFCT-ND†	1.93	1.21	.90
	20	0.006	93	370	79	IRFR3711ZPBFTR-ND†	1400.00/2,000		
	20	0.0084	60	240	48	IRFR3704ZTR-ND	1016.00/2,000		
	20	0.009	75	300	90	IRFR3704-ND	1.46	.79	.71
	20	0.009	75	300	90	IRFR3704PBFCT-ND†	1.64	1.03	.76
	20	0.009	75	300	90	IRFR3704PBFTR-ND†	1190.00/2,000		
	20	0.009	75	280	88	IRFR3706-ND	1.44	.78	.70
	20	0.009	75	280	88	IRFR3706PBFCT-ND†	2.34	1.51	1.18
	20	0.009	75	280	88	IRFR3706PBFTR-ND†	1874.00/2,000		
	30	0.0095	56	220	50	IRFR3707ZPBFCT-ND†	1.37	.86	.64
	30	0.0095	56	220	50	IRFR3707ZPBFTR-ND†	991.80/2,000		
	30	0.0065	86	340	79	IRFR3709Z-ND	1.65	.94	.77
	30	0.0065	86	340	79	IRFR3709ZPBFCT-ND†	1.78	1.12	.83
	30	0.0065	86	340	79	IRFR3709ZPBFTR-ND†	1290.50/2,000		
	30	0.013	61	244	87	IRFR3707-ND	1.44	.78	.70
	30	0.013	61	244	87	IRFR3707PBFCT-ND†	1.97	1.27	.99
	30	0.013	61	244	87	IRFR3707PBFTR-ND†	1574.00/2,000		
	30	0.031	33	120	57	IRFR3303-ND	.88	.70	.51
	30	0.031	33	120	57	IRFR3303PBFCT-ND†	1.40	.88	.65
	30	0.031	33	120	57	IRFR3303PBFTR-ND†	1016.00/2,000		
	40	0.0055	42	480	140	IRFR4104-ND	2.60	1.68	1.36
	40	0.0055	42	480	140	IRFR4104PBFCT-ND†	2.87	1.85	1.44
	40	0.0055	42	480	140	IRFR4104PBFTR-ND†	2296.00/2,000		
	40	0.009	42	310	90	IRFR3504Z-ND	1.69	1.11	.85
	40	0.009	42	310	90	IRFR3504ZPBFCT-ND†	1.93	1.24	.97
	40	0.009	42	310	90	IRFR3504ZPBFTR-ND†	1540.00/2,000		
	50	0.1	15	—	—	IRFR020-ND	1.36	1.09	.78
	50	0.1	15	—	—	IRFR020PBFCT-ND†	1.24	.80	.63
	50	0.1	15	—	—	IRFR020TR-ND	958.00/2,000		
	50	0.1	15	—	—	IRFR020PBFTR-ND†	994.00/2,000		
	50	0.1	15	—	—	IRFR020TRL-ND	2196.00/3,000		
	50	0.2	8.2	33	25	IRFR010-ND	1.06	.85	.65
	55	0.0145	42	240	110	IRFR2905Z-ND	2.21	1.47	1.11
	55	0.0145	42	240	110	IRFR2905ZPBFCT-ND†	2.28	1.47	1.14
	55	0.0145	42	240	110	IRFR2905ZPBFTR-ND†	1820.00/2,000		
	55	0.016	56	220	110	IRFR2405-ND	1.59	.92	.77
	55	0.016	56	220	110	IRFR2405PBFCT-ND†	1.61	1.04	.81
	55	0.016	56	220	110	IRFR2405PBFTR-ND†	1288.00/2,000		
	55	0.025	30	120	48	IRFR4105Z-ND	1.23	.81	.62
	55	0.025	30	120	48	IRFR4105ZPBFCT-ND†	1.80	1.13	.84
	55	0.025	30	120	48	IRFR4105ZPBFTR-ND†	1306.00/2,000		
	55	0.027	44	160	107	IRFR1205-ND	2.64	1.87	1.54
	55	0.027	44	160	107	IRFR1205PBFCT-ND†	3.85	2.48	1.93
	55	0.027	44	160	107	IRFR1205TR-ND	2870.00/2,000		
	55	0.027	44	160	107	IRFR1205PBFTR-ND†	3080.00/2,000		
	55	0.045	27	100	68	IRFR4105-ND	2.63	2.10	1.50
	55	0.045	27	100	68	IRFR4105PBFCT-ND†	4.20	2.63	1.95
	55	0.045	27	100	68	IRFR4105PBFTR-ND†	3046.00/2,000		
	55	0.075	17	68	38	IRFR024N-ND	.62	.45	.37
	55	0.075	17	68	38	IRFR024NPBFCT-ND†	1.04	.65	.49
	55	0.075	17	68	38	IRFR024NPBFTR-ND†	754.00/2,000		
	60	0.075	14	68	45	IRFR024-ND	.89	.71	.52
	60	0.075	14	68	45	IRFR024PBFCT-ND†	1.24	.80	.63
	60	0.075	14	68	45	IRFR024PBFTR-ND†	994.00/2,000		
	60	0.2	7.7	31	25	IRFR014PBFCT-ND†	1.08	.68	.50
	60	0.2	7.7	31	25	IRFR014TR-ND	730.00/2,000		
	60	0.2	7.7	31	25	IRFR014PBFTR-ND†	784.00/2,000		
	75	0.022	42	180	110	IRFR2607Z-ND	1.50	1.05	.79
	75	0.026	42	170	110	IRFR2407-ND	1.66	.96	.80
	75	0.026	42	170	110	IRFR2407PBFCT-ND†	2.95	1.90	1.48
	75	0.026	42	170	110	IRFR2407PBFTR-ND†	2358.00/2,000		
	100	0.115	16	60	79	IRFR3910-ND	.94	.67	.55
	100	0.115	16	60	79	IRFR3910PBFCT-ND†	1.56	.98	.73
	100	0.115	16	60	79	IRFR3910PBFTR-ND†	1132.00/2,000		
	100	0.115	16	60	79	IRFR3910TRL-ND	1581.00/3,000		
	100	0.190	8.7	35	35	IRFR120Z-ND	1.60	1.00	.74
	100	0.21	9.4	38	48	IRFR120N-ND	1.15	.74	.56
	100	0.21	9.4	38	48	IRFR120NPBFCT-ND†	1.28	.80	.60
	100	0.21	9.4	38	48	IRFR120NTR-ND	882.00/2,000		
	100	0.21	9.4	38	48	IRFR120NPBFTR-ND†	928.00/2,000		
	100	0.21	9.4	38	48	IRFR120NTRL-ND	1296.00/3,000		
	100	0.27	7.7	31	42	IRFR120IR-ND	1.64	1.05	.79
	100	0.27	7.7	31	42	IRFR120TR-ND	1260.00/2,000		

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
2	100	0.27	7.7	31	42	IRFR120TRL-ND	1257.00/3,000		
	100	0.54	4.3	17	25	IRFR110PBFCT-ND†	1.60	1.00	.74
	100	0.54	4.3	17	25	IRFR110TR-ND	1080.00/2,000		
	100	0.54	4.3	17	25	IRFR110PBFTR-ND†	1160.00/2,000		
	150	0.18	14	56	86	IRFR13N15D-ND	1.68	.95	.78
	200	0.235	13	52	110	IRFR13N20D-ND	1.60	1.28	1.02
	200	0.235	13	52	110	IRFR13N20DPBFCT-ND†	2.52	1.62	1.26
	200	0.235	13	52	110	IRFR13N20DPBFTR-ND†	2014.00/2,000		
	200	0.6	5	20	43	IRFR220N-ND	.80	.64	.48
	200	0.6	5	20	43	IRFR220NPBFCT-ND†	1.60	1.00	.74
	200	0.6	5	20	43	IRFR220NPBFTR-ND†	1160.00/2,000		
	200	0.8	4.8	19	42	IRFR220PBFCT-ND†	1.82	1.14	.84
	200	0.8	4.8	19	42	IRFR220PBFTR-ND†	1316.00/2,000		
	200	1.5	2.6	10	25	IRFR210-ND	.63	.51	.37
	200	1.5	2.6	10	25	IRFR210PBFCT-ND†	1.60	1.00	.74
	200	1.5	2.6	10	25	IRFR210PBFTR-ND†	1160.00/2,000		
	250	1.1	3.8	15	42	IRFR224-ND	.74	.59	.42
	250	1.1	3.8	15	42	IRFR224PBFCT-ND†	1.03	.67	.52
	250	1.1	3.8	15	42	IRFR224TR-ND	796.00/2,000		
	250	1.1	3.8	15	42	IRFR224PBFTR-ND†	826.00/2,000		
	250	1.1	3.8	15	42	IRFR224TRL-ND	1194.00/3,000		
	400	1.8	3.1	12	42	IRFR320-ND	.88	.70	.50
	400	1.8	3.1	12	42	IRFR320PBFCT-ND†	1.23	.79	.62
	400	1.8	3.1	12	42	IRFR320PBFTR-ND†	980.00/2,000		
	400	3.6	1.7	6	25	IRFR310-ND	.96	.77	.55
	400	3.6	1.7	6	25	IRFR310PBFCT-ND†	1.54	.97	.72
	400	3.6	1.7	6	25	IRFR310TR-ND	1040.00/2,000		
	400	3.6	1.7	6	25	IRFR310PBFTR-ND†	1116.00/2,000		
	500	3	2.4	8	42	IRFR420-ND	.88	.70	.51
	500	3	2.4	8	42	IRFR420PBFCT-ND†	1.40	.88	.65
	500	3	2.4	8	42	IRFR420TR-ND	952.00/2,000		
	500	3	2.4	8	42	IRFR420PBFTR-ND†	1016.00/2,000		
	600	4.4	2	8	42	IRFRC20-ND	1.20	.96	.69
	600	4.4	2	8	42	IRFRC20PBFCT-ND†	1.68	1.08	.84
	600	4.4	2	8	42	IRFRC20PBFTR-ND†	1344.00/2,000		
	600	7	1.4	5.6	36	IRFR1N60A-ND	.73	.58	.41
	600	7	1.4	5.6	36	IRFR1N60APBFCT-ND†	1.75	1.13	.88
	600	7	1.4	5.6	36	IRFR1N60APBFTR-ND†	1400.00/2,000		
						DPak Logic Level			
2	20	0.011	49	200	40	IRLR3715Z-ND	1.17	.77	.59
	20	0.011	49	200	40	IRLR3715ZPBFCT-ND†	1.33	.84	.62
	20	0.011	49	200	40	IRLR3715ZPBFTR-ND†	966.00/2,000		
	20	0.015	37	144	35	IRLR3714Z-ND	1.31	.74	.63
	20	0.015	37	144	35	IRLR3714ZTR-ND	1016.00/2,000		
	20	0.015	37	144	35	IRLR3714ZCTL-ND	1.40	.88	.63
	20	0.015	37	144	35	IRLR3714ZTRL-ND	1470.00/3,000		
	20	0.02	36	31	140	IRLR3714-ND	.92	.55	.41
	20	0.02	36	31	140	IRLR3714PBFCT-ND†	1.95	1.22	.91
	20	0.02	36	31	140	IRLR3714PBFTR-ND†	1416.00/2,000		
	30	0.01	65	260	75	IRLR7821-ND	1.31	.85	.66
	30	0.01	65	260	75	IRLR7821PBFCT-ND†	1.31	.82	.61
	30	0.01	65	260	75	IRLR7821PBFTR-ND†	948.30/2,000		
	30	0.0033	161	620	140	IRLR7843-ND	2.75	1.56	1.36
	30	0.0033	161	620	140	IRLR7843PBFCT-ND†	2.79	1.80	1.40
	30	0.0038	161	620	140	IRLR7843PBFTR-ND†	2231.60/2,000		
	30	0.0045	140	560	140	IRLR7833-ND	2.24	1.43	1.09
	30	0.0045	140	560	140	IRLR7833PBFCT-ND†	2.63	1.69	1.32
	30	0.0045	140	560	140	IRLR7833TR-ND	2130.00/2,000		
	30	0.0045	140	560	140	IRLR7833PBFTR-ND†	2100.00/2,000		
	30	0.0045	140	560	140	IRLR7833TRL-ND	3150.00/3,000		
	30	0.0045	140	560	140	IRLR7833TRR-ND	3150.00/3,000		
	30	0.006	94	380	89	IRLR8113-ND	2.48	1.62	1.24
	30	0.006	94	380	89	IRLR8113PBFCT-ND†	2.17	1.40	1.09
	30	0.006	94	380	89	IRLR8113PBFTR-ND	1736.00/2,000		
	30	0.012	44	196	62	IRLR8503-ND	2.88	2.30	1.73
	30	0.012	44	196	62	IRLR8503PBFCT-ND†	3.45	2.30	1.84
	30	0.012	44	196	62	IRLR8503PBFTR-ND†	3220.00/2,000		
	30	0.0138	43	170	40	IRLR7807Z-ND	1.24	.72	.56
	30	0.0138	43	170	40	IRLR7807ZPBFCT-ND†	1.24	.78	.58
	30	0.0138	43	170	40	IRLR7807ZPBFTR-ND†	899.00/2,000		
	30	0.019	55	220	107	IRLR3103PBFCT-ND†	1.82	1.17	.91
	30	0.019	55	220	107	IRLR3103TR-ND	1404.00/2,000		
	30	0.019	55	220	107	IRLR3103PBFTR-ND†	1456.00/2,000		
	30	0.031	35	140	68	IRLR3303-ND	1.00	.80	.58
	30	0.031	35	140	68	IRLR3303PBFCT-ND†	2.35	1.51	1.18
	30	0.031	35	140	68	IRLR3303TR-ND	1810.00/2,000		
	30	0.031	35	140	68	IRLR3303PBFTR-ND†	1876.00/2,000		
	30	0.045	23	96	45	IRLR2703-ND	.79	.64	.46
	30	0.045	23	96	45	IRLR2703PBFCT-ND†	1.27	.80	.59
	30	0.045	23	96	45	IRLR2703PBFTR-ND†	920.00/2,000		
	30	0.079	91	363	115	IRLR8103V-ND	1.78	1.01	.82
	30	0.079	91	363	115	IRLR8103VPBFCT-ND†	2.85	1.84	1.43
	30	0.079	91	363	115	IRLR8103VPBFTR-ND†	2282.00/2,000		
	55	0.012	42	360	130	IRLR3705ZPBF-ND†	2.98	1.92	1.49
	55	0.027	42	160	110	IRLR2905-ND	1.25	.89	.73
	55	0.027	42	160	110	IRLR2905PBFCT-ND†	1.56	1.04	.84

† RoHS Compliant

(Continued)

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
2	55	0.027	42	160	110	IRLR2905PBFTR-ND†	1456.00/2,000		
	55	0.027	42	160	110	IRLR2905TRL-ND	4224.00/3,000		
	55	0.04	28	110	68	IRLR2705-ND	1.73	1.12	.85
	55	0.04	28	110	68	IRLR2705PBFCT-ND†	1.93	1.24	.97
	55	0.04	28	110	68	IRLR2705PBFTR-ND†	1540.00/2,000		
	55	0.057	26	80	79	IRLR4343-ND	1.44	.95	.71
	55	0.057	26	80	79	IRLR4343CTL-ND	1.44	1.03	.72
	55	0.057	26	80	79	IRLR4343TRL-ND	1722.00/3,000		
	55	0.065	17	72	45	IRLR024N-ND	1.25	.80	.61
	55	0.065	17	72	45	IRLR024NPBFCT-ND†	1.40	.88	.65
	55	0.065	17	72	45	IRLR024NTR-ND	962.30/2,000		
	55	0.065	17	72	45	IRLR024NPBFTR-ND†	1016.00/2,000		
	60	0.2	7.7	31	25	IRLR014-ND	.68	.55	.39
	60	0.2	7.7	31	25	IRLR014PBFCT-ND†	1.09	.69	.51
	60	0.2	7.7	31	25	IRLR014PBFTR-ND	792.00/2,000		
	60	0.1	14	56	42	IRLR024-ND	.90	.72	.52
	60	0.1	14	56	42	IRLR024PBFCT-ND†	1.26	.81	.63
	60	0.1	14	56	42	IRLR024PBFTR-ND†	1008.00/2,000		
	100	0.105	17	60	79	IRLR3410-ND	1.00	.80	.58
	100	0.105	17	60	79	IRLR3410PBFCT-ND†	1.40	.90	.70
	100	0.105	17	60	79	IRLR3410PBFTR-ND†	1120.00/2,000		
	100	0.185	10	35	48	IRLR120N-ND	.84	.60	.49
	100	0.185	10	35	48	IRLR120NPBFCT-ND†	1.40	.88	.65
	100	0.185	10	35	48	IRLR120NPBFTR-ND†	1015.00/2,000		
	100	0.185	11	35	48	IRLR120NTRL-ND	1419.00/3,000		
	100	0.27	7.7	31	42	IRLR120-ND	1.29	.83	.62
	100	0.27	7.7	31	42	IRLR120PBFCT-ND†	1.44	.90	.67
	100	0.27	7.7	31	42	IRLR120PBFTR-ND†	1044.00/2,000		
	100	0.54	4.3	17	25	IRLR110-ND	1.08	.86	.61
	100	0.54	4.3	17	25	IRLR110PBFCT-ND†	1.04	.65	.49
	100	0.54	4.3	17	25	IRLR110PBFTR-ND†	754.00/2,000		
	100	0.54	4.3	17	25	IRLR110TRL-ND	1053.00/3,000		

Micro-3 (SOT-23) Logic Level

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
3	20	0.045	4.2	33	1.25	IRLML2502PBFCT-ND†	.77	.45	.30
	20	0.045	4.2	33	1.25	IRLML2502PBFTR-ND†	675.00/3,000		
	20	0.25	1.2	7.4	540	IRLML2402PBFCT-ND†	1.13	.66	.44
	20	0.25	1.2	7.4	540	IRLML2402PBFTR-ND†	957.00/3,000		
	30	0.25	1.2	7.3	540	IRLML2803PBFCT-ND†	.67	.39	.26
	30	0.25	1.2	7.3	540	IRLML2803PBFTR-ND†	585.00/3,000		

Micro-6 (TSOP-6)

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
4	150	1.2	0.9	7	2.0	IRF5802TRCT-ND	.99	.52	.43
	150	1.2	0.9	7	2.0	IRF5802TRTR-ND	1010.16/3,000		

Micro-6 (TSOP-6) Logic Level

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
4	20	0.03	6.5	20	2.0	IRLMS2002CT-ND	.76	.57	.45
	20	0.03	6.5	20	2.0	IRLMS2002PBFCT-ND†	1.01	.63	.47
	20	0.03	6.5	20	2.0	IRLMS2002PBFTR-ND†	1095.00/3,000		
	20	0.1	3.2	18	1.7	IRLMS1902CT-ND	.43	.33	.26
	20	0.1	3.2	18	1.7	IRLMS1902PBFCT-ND†	.57	.36	.27
	20	0.1	3.2	18	1.7	IRLMS1902PBFTR-ND†	621.00/3,000		
	30	0.1	3.2	18	1.7	IRLMS1503CT-ND	.46	.35	.27
	30	0.1	3.2	18	1.7	IRLMS1503PBFCT-ND†	.62	.39	.29
	30	0.1	3.2	18	1.7	IRLMS1503TR-ND	624.00/3,000		
	30	0.1	3.2	18	1.7	IRLMS1503PBFTR-ND†	669.00/3,000		

Micro-8 Logic Level

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
5A	20	0.03	6.5	50	1.8	IRF7607TR-ND	2592.00/4,000		
	20	0.035	5.7	30	1.8	IRF7601CT-ND	2.16	1.62	1.26
	20	0.035	5.7	30	1.8	IRF7601TR-ND	3888.00/4,000		
	20	0.135	2.4	19	1.3	IRF7521D1TR-ND	2160.00/4,000		
	30	0.035	5.6	30	1.8	IRF7603CT-ND	.98	.74	.58
	30	0.035	5.6	30	1.8	IRF7603TR-ND	1696.00/4,000		
	30	0.11	2.7	21	1.25	IRF7523D1TR-ND	1944.00/4,000		

Micro-8 Dual Logic Level

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
5C	20	0.135	2.4	19	1.25	IRF7501CT-ND	1.89	1.42	1.11
	20	0.135	2.4	19	1.25	IRF7501TR-ND	3404.00/4,000		
	30	0.135	2.4	14	1.25	IRF7503CT-ND	1.31	.98	.77
	30	0.135	2.4	14	1.25	IRF7503TR-ND	2264.00/4,000		

SOT-223

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
6	55	0.045	3.7	30	1	IRFL4105CT-ND	2.10	1.58	1.23
	55	0.045	3.7	30	1	IRFL4105TR-ND	2187.50/2,500		
	55	0.0575	5.1	41	1	IRFL024Z-ND	1.50	.96	.72
	55	0.16	1.9	15	2.1	IRFL014N-ND	.61	.49	.37
	55	0.16	1.9	15	2.1	IRFL014NPBFCT-ND†	1.60	1.00	.74
	55	0.16	1.9	15	2.1	IRFL014NPBFTR-ND†	1450.00/2,500		
	60	0.2	2.7	22	3.1	IRFL014-ND	.86	.56	.43
	60	0.2	2.7	22	3.1	IRFL014PBFCT-ND†	.87	.56	.44
	60	0.2	2.7	22	3.1	IRFL014TR-ND	900.00/2,500		
	60	0.2	2.7	22	3.1	IRFL014PBFTR-ND†	900.00/2,500		
	60	0.22	1.6	6.4	2.1	IRFL1006-ND	.80	.64	.48
	100	0.2	1.6	13	1	IRFL4310CT-ND	1.80	1.35	1.05
	100	0.2	1.6	13	1	IRFL4310TR-ND	2000.00/2,500		
	100	0.54	1.5	12	3.1	IRFL110-ND	.76	.61	.44
	100	0.54	1.5	12	3.1	IRFL110PBFCT-ND†	1.21	.76	.57
	100	0.54	1.5	12	3.1	IRFL110TR-ND	1136.25/2,500		
	100	0.54	1.5	12	3.1	IRFL110PBFTR-ND†	1097.50/2,500		
	200	1.5	0.96	7.7	3.1	IRFL210-ND	.65	.52	.37
	200	1.5	0.96	7.7	3.1	IRFL210PBFCT-ND†	.91	.59	.46

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
6	200	1.5	0.96	7.7	3.1	IRFL210PBFTR-ND†	942.50/2,500		
	250	2	0.79	6.3	3.1	IRFL214-ND	1.40	1.12	.80
	250	2	0.79	6.3	3.1	IRFL214PBFCT-ND†	1.96	1.26	.98
	250	2	0.79	6.3	3.1	IRFL214PBFTR-ND†	2030.00/2,500		

SOT-223 Logic Level

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
6	30	0.031	4.6	37	1	IRLL3303CT-ND	2.25	1.69	1.32
	30	0.031	4.6	37	1	IRLL3303PBFCT-ND†	2.63	1.69	1.32
	30	0.031	4.6	37	1	IRLL3303PBFTR-ND†	2720.00/2,500		
	55	0.04	3.8	30	2.1	IRLL2705-ND	1.75	1.40	1.05
	55	0.04	3.8	30	1	IRLL2705PBFCT-ND†	2.45	1.58	1.23
	55	0.04	3.8	30	1	IRLL2705PBFTR-ND†	2537.50/2,500		
	55	0.060	5.0	40	1.0	IRLL024Z-ND	1.40	.79	.65
	55	0.065	3.1	12	2.1	IRLL024N-ND	.80	.64	.48
	55	0.065	3.1	12	2.1	IRLL024NPBFCT-ND†	1.28	.80	.60
	55	0.065	3.1	12	2.1	IRLL024NPBFTR-ND†	1160.00/2,500		
	55	0.14	2	16	2.1	IRLL014N-ND	.68	.54	.39
	55	0.14	2	16	2.1	IRLL014NPBFCT-ND†	1.08	.68	.50
	55	0.14	2	16	2.1	IRLL014NPBFTR-ND†	978.75/2,500		
	60	0.2	2.7	22	3.1	IRLL014-ND	.78	.62	.45
	60	0.2	2.7	22	3.1	IRLL014PBFCT-ND†	1.93	1.24	.97
	60	0.2	2.7	22	3.1	IRLL014TR-ND	1842.50/2,500		
	60	0.2	2.7	22	3.1	IRLL014PBFTR-ND†	1995.00/2,500		
	100	0.54	1.5	12	3.1	IRLL110-ND	.60	.48	.34
	100	0.54	1.5	12	3.1	IRLL110PBFCT-ND†	.83	.54	.42
	100	0.54	1.5	12	3.1	IRLL110PBFTR-ND†	862.75/2,500		

SO-8

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
7A	20	0.0134	10	82	2.0	IRF8910-ND	1.04	.65	.47
	20	0.0134	10	82	2.0	IRF8910PBFCT-ND†	1.28	.80	.60
	20	0.0134	10	82	2.0	IRF8910PBFTR-ND†	1792.00/4,000		
	20	0.0183	8.9	71	2.0	IRF8915-ND	1.36	.85	.62
	20	0.0183	8.9	71	2.0	IRF8915PBFCT-ND†	1.36	.85	.63
	20	0.0183	8.9	71	2.0	IRF8915PBFTR-ND†	1904.00/4,000		
	20	0.03	7.0	28	2.0	IRF7331-ND	1.37	.72	.65
	20	0.03	7.0	28	2.0	IRF7331PBFCT-ND†	1.52	.96	.71
	20	0.03	7.0	28	2.0	IRF7331PBFTR-ND†	2132.00/4,000		
	50	0.13	3.0	25	2.4	IRF7103Q-ND	.90	.53	.41
7D	20	0.009	12	100	2.5	IRF7459-ND	.88	.70	.53
	20	0.035	6.8	54	2.5	IRF7402-ND	1.63	1.30	.98
	20	0.035	6.8	54	2.5	IRF7402PBFCT-ND†	2.28	1.47	1.14
	20	0.035	6.8	54	2.5	IRF7402PBFTR-ND†	3512.00/4,000		
	20	.0044	20	160	2.5	IRF3717-ND	3.99	2.06	1.32
	20	.0044	20	160	2.5	IRF3717PBFCT-ND†	2.00	1.29	1.00
	20	.0044	20	160	2.5	IRF3717PBFTR-ND†	3192.00/4,000		
	30	0.0036	21	170	2.5	IRF7831-ND	2.30	1.31	1.14
	30	0.0036	21	170	2.5	IRF7831PBFCT-ND†	2.33	1.51	1.17
	30	0.0036	21	170	2.5	IRF7831PBFTR-ND†	3600.00/4,000		
	30	0.0038	21	160	2.5	IRF7832Z-ND	2.24	1.49	1.13
	30	0.004	20	160	2.5	IRF7832-ND	2.61	1.75	1.26
	30	0.004	20	160	2.5	IRF7832CT-ND	2.65	1.89	1.29
	30	0.004	20	160	2.5	IRF7832PBFCT-ND†	2.44	1.57	1.22
	30	0.004	20	160	2.5	IRF7832TR-ND	3903.20/4,000		
	30	0.004	20	160	2.5	IRF7832PBFTR-ND†	3764.00/4,000		
	30	0.0045	19	160	2.5	IRF7834-ND	1.87	1.24	.94
	30	0.0045	19	160	2.5	IRF7834PBFCT-ND†	1.75	1.13	.88
	30	0.0045	19	160	2.5	IRF7834PBFTR-ND†	2800.00/4,000		
	30	0.005	18	150	3.1	IRF7822-ND	2.75	1.92	1.49
	30	0.005	18	150	3.1	IRF7822PBFCT-ND†	3.14	2.10	1.68
	30	0.005	18	150	3.1	IRF7822PBFTR-ND†	5648.00/4,000		
	30	0.006	16.6	133	2.5	IRF8113-ND	1.76	1.02	.87
	30	0.006	16.6	133	2.5	IRF8113PBFCT-ND†	1.77	1.15	.89
	30	0.006	16.6	133	2.5	IRF8113TR-ND	2736.00/4,000		
	30	0.006	16.6	133	2.5	IRF8113PBFTR-ND†	2840.00/4,000		
	30	0.007	13.3	100	2.5	IRF7809AV-ND	1.45	.84	.70
	30	0.007	13.3	100	2.5	IRF7809AVPBFCT-ND†	1.93	1.24	.97
	30	0.007	13.3	100	2.5	IRF7809AVPBFTR-ND†	3080.00/4,000		
	30	0.007	16	120	2.5	IRF7805Z-ND	1.61	1.06	.81
	30	0.007	16	120	2.5	IRF7805ZPBFCT-ND†	1.84	1.15	.85
	30	0.007	16	120	2.5	IRF7805ZPBFTR-ND†	2572.00/4,000		
	30	0.008	14	110	2.5	IRF7458-ND	1.69	1.35	1.02
	30	0.008	14	110	2.5	IRF7458PBFCT-ND†	2.63	1.69	1.32
	30	0.008	14	110	2.5	IRF7458PBFTR-ND†	4052.00/4,000		
	30	0.008	14	110	2.5	IRF7477-ND	1.59	.92	.77
	30	0.008	14	110	2.5	IRF7477PBFCT-ND†	1.93	1.24	.97
	30	0.008	14	110	2.5	IRF7477PBFTR-ND†	3080.00/4,000		
	30	0.0091	13.6	100	2.5	IRF7821-ND	1.68	1.10	.85
	30	0.0091	13.6	100	2.5	IRF7821PBFCT-ND†	1.68	1.06	.78
	30	0.0091	13.6	100	2.5	IRF7821PBFTR-ND†	2356.00/4,000		
	30	0.01	13	100	2.5	IRF7413Z-ND	1.75	1.15	.88
	30	0.01	13	100	2.5	IRF7413ZPBFCT-ND†	1.75	1.13	.88
	30	0.01	13	100	2.5	IRF7413ZPBFTR-ND†	2800.00/4,000		
	30	0.011	10.8	100	2.5	IRF7811AV-ND	1.33	.70	.63
	30	0.011	10.8	100	2.5	IRF7811AVPBFCT-ND†	1.40	.88	.65
	30	0.011	10.8	100	2.5	IRF7811AVPBFTR-ND†	1960.00/4,000		
	30	0.011	13	100	2.5	IRF7805A-ND	1.81	1.03	.84
	30	0.011	13	100	2.5	IRF7805APBFCT-ND†	2.33	1.50	1.17

† RoHS Compliant

(Continued)

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
7D	30	0.011	13	100	2.5	IRF7805APBFTR-ND†	3592.00/4,000		
	30	0.011	13	100	2.5	IRF7805-ND	1.56	1.00	.76
	30	0.011	13	100	2.5	IRF7805PBFCT-ND†	1.52	.98	.76
	30	0.011	13	100	2.5	IRF7805TR-ND	2408.00/4,000		
	30	0.011	13	100	2.5	IRF7805PBFTR-ND†	2338.20/4,000		
	30	0.014	11	88	2.5	IRF7807Z-ND	1.08	.71	.54
	30	0.014	11	88	2.5	IRF7807ZPBFCT-ND†	1.23	.77	.57
	30	0.014	11	88	2.5	IRF7807ZPBFTR-ND†	1724.00/4,000		
	30	0.017	8.3	66	2.5	IRF7807V-ND	1.35	.72	.64
	30	0.017	8.3	66	2.5	IRF7807VPBFCT-ND†	1.69	1.06	.79
	30	0.017	8.3	66	2.5	IRF7807VPBFTR-ND†	2368.00/4,000		
	30	0.025	8.3	66	2.5	IRF7807PBFCT-ND†	1.80	1.13	.84
	30	0.025	8.3	66	2.5	IRF7807PBFTR-ND†	2520.00/4,000		
	30	0.03	7	37	2.5	IRF9410-ND	1.80	1.44	1.03
	30	0.03	7	37	2.5	IRF9410PBFCT-ND†	2.88	1.80	1.34
	30	0.03	7	37	2.5	IRF9410PBFTR-ND†	4032.00/4,000		
	40	0.005	18	140	2.5	IRF7842PBFCT-ND†	2.52	1.62	1.26
	40	0.005	18	140	2.5	IRF7842PBFTR-ND†	3888.00/4,000		
	40	0.010	14	110	2.5	IRF7484Q-ND	1.98	1.26	1.02
	40	0.013	10	83	2.5	IRF7471-ND	1.68	.96	.80
	40	0.013	10	83	2.5	IRF7471PBFCT-ND†	2.49	1.60	1.25
	40	0.013	10	83	2.5	IRF7471PBFTR-ND†	3836.00/4,000		
	40	0.013	10	85	1.6	IRF7470-ND	1.20	.96	.72
	40	0.013	10	85	1.6	IRF7470PBFCT-ND†	2.32	1.49	1.16
	40	0.013	10	85	1.6	IRF7470PBFTR-ND†	3576.00/4,000		
	40	0.017	9.0	73	2.5	IRF7469-ND	1.44	.78	.70
	40	0.017	9.0	73	2.5	IRF7469PBFCT-ND†	1.78	1.15	.89
	40	0.017	9.0	73	2.5	IRF7469PBFTR-ND†	2844.00/4,000		
	60	0.026	7.0	56	2.5	IRF7478-ND	1.29	.68	.62
	60	0.026	7.0	56	2.5	IRF7478PBFCT-ND†	1.19	.77	.60
	60	0.026	7.0	56	2.5	IRF7478PBFTR-ND†	1904.00/4,000		
	80	0.015	9.3	74	2.5	IRF7493-ND	2.38	1.58	1.23
	80	0.015	9.3	74	2.5	IRF7493PBFCT-ND†	2.45	1.58	1.23
	80	0.015	9.3	74	2.5	IRF7493PBFTR-ND†	3780.00/4,000		
	100	0.022	7.3	58	2.5	IRF7495-ND	1.91	1.27	.99
	100	0.022	7.3	58	2.5	IRF7495PBF-ND†	1.91	1.24	.99
	100	0.022	7.3	58	2.5	IRF7495PBFCT-ND†	2.38	1.54	1.23
	100	0.022	7.3	58	2.5	IRF7495PBFTR-ND†	3780.00/4,000		
	100	0.026	6.9	55	2.5	IRF7473-ND	1.74	.99	.81
	100	0.026	6.9	55	2.5	IRF7473PBFCT-ND†	2.14	1.38	1.07
	100	0.026	6.9	55	2.5	IRF7473PBFTR-ND†	3416.00/4,000		
	100	0.06	4.5	36	2.5	IRF7452-ND	1.64	1.32	.99
	100	0.06	4.5	36	2.5	IRF7452PBFCT-ND†	2.56	1.65	1.28
	100	0.06	4.5	36	2.5	IRF7452PBFTR-ND†	3944.00/4,000		
	150	0.044	5.2	42	3.0	IRF7494-ND	1.83	1.20	.92
	150	0.044	5.2	42	3.0	IRF7494TRCT-ND	1.59	1.20	.93
	150	0.044	5.2	42	3.0	IRF7494TRTR-ND	2840.00/4,000		
	150	0.09	3.6	29	2.5	IRF7451-ND	2.33	1.63	1.24
	150	0.09	3.6	29	2.5	IRF7451PBFCT-ND†	2.59	1.67	1.30
	150	0.09	3.6	29	2.5	IRF7451PBFTR-ND†	3996.00/4,000		
	150	0.28	1.9	15	2.5	IRF7465-ND	1.67	.95	.79
	150	0.28	1.9	15	2.5	IRF7465PBFCT-ND†	1.96	1.23	.91
	150	0.28	1.9	15	2.5	IRF7465PBFTR-ND†	2744.00/4,000		
	200	0.079	3.7	30	2.5	IRF7492-ND	1.83	1.20	.92
	200	0.079	3.7	30	2.5	IRF7492TRTR-ND	2864.00/4,000		
	200	0.17	2.5	20	2.5	IRF7450-ND	2.24	1.57	1.19
	200	0.17	2.5	20	2.5	IRF7450PBFCT-ND†	2.49	1.61	1.25
	200	0.17	2.5	20	2.5	IRF7450PBFTR-ND†	3844.00/4,000		
	200	0.73	1.2	10	2.5	IRF7464-ND	1.23	.98	.74
	200	0.73	1.2	10	2.5	IRF7464PBFCT-ND†	1.96	1.23	.91
	200	0.73	1.2	10	2.5	IRF7464PBFTR-ND†	2744.00/4,000		
	250	0.23	2.2	17	2.5	IRF7453-ND	1.67	.95	.79
	250	0.23	2.2	17	2.5	IRF7453PBFCT-ND†	2.34	1.51	1.18
	250	0.23	2.2	17	2.5	IRF7453PBFTR-ND†	3612.00/4,000		
7I	20	0.0134	10	83	2.0	IRF9910-ND	1.94	1.22	.88
	20	0.0134	10	83	2.0	IRF9910PBFCT-ND†	1.60	1.00	.74
	20	0.0134	10	83	2.0	IRF9910PBFTR-ND†	2240.00/4,000		
SO-8 Logic Level									
7A	20	0.029	6.6	26	2.0	IRF7311-ND	1.03	.74	.61
	20	0.029	6.6	26	2.0	IRF7311PBFCT-ND†	1.29	.86	.69
	20	0.029	6.6	26	2.0	IRF7311PBFTR-ND†	2322.00/4,000		
	20	0.05	5.2	21	2.0	IRF7301-ND	.90	.72	.52
	20	0.05	5.2	21	2.0	IRF7301PBFCT-ND†	1.44	.90	.67
	20	0.05	5.2	21	2.0	IRF7301TR-ND	1944.00/4,000		
	20	0.05	5.2	21	2.0	IRF7301PBFTR-ND†	2016.00/4,000		
	30	0.029	6.5	30	2.5	IRF7313-ND	1.96	1.34	1.07
	30	0.029	6.5	30	2.5	IRF7313PBFCT-ND†	2.00	1.34	1.07
	30	0.029	6.5	30	2.5	IRF7313TR-ND	4002.00/4,000		
	30	0.029	6.5	30	2.5	IRF7313PBFTR-ND†	3600.00/4,000		
	30	0.05	4.9	20	2.0	IRF7303-ND	.97	.78	.56
	30	0.05	4.9	20	2.0	IRF7303PBFCT-ND†	1.36	.88	.68
	30	0.05	4.9	20	2.0	IRF7303PBFTR-ND†	2096.00/4,000		
	20	0.1	3.5	14	2.0	IRF7101-ND	2.14	1.41	1.08
	20	0.1	3.5	14	2.0	IRF7101PBFCT-ND†	2.28	1.47	1.14
	20	0.1	3.5	14	2.0	IRF7101TR-ND	3360.00/4,000		
	20	0.1	3.5	14	2.0	IRF7101PBFTR-ND†	3512.00/4,000		
	30	0.1	3.5	16	2.0	IRF9956-ND	1.63	1.30	.93
	30	0.1	3.5	16	2.0	IRF9956PBFCT-ND†	2.28	1.47	1.14
	30	0.1	3.5	16	2.0	IRF9956PBFTR-ND†	3512.00/4,000		
	50	0.13	3.0	10	2.0	IRF7103-ND	1.04	.69	.53
	50	0.13	3.0	10	2.0	IRF7103PBFCT-ND†	1.12	.72	.56
	50	0.13	3.0	10	2.0	IRF7103PBFTR-ND†	1728.00/4,000		
	55	0.05	4.7	38	2.0	IRF7341-ND	1.41	.93	.71
	55	0.05	4.7	38	2.0	IRF7341PBFCT-ND†	1.49	.96	.75
	55	0.05	4.7	38	2.0	IRF7341PBFTR-ND†	2380.00/4,000		
7D	20	0.01	12	100	2.5	IRF7460-ND	1.63	1.30	.98
	20	0.01	12	100	2.5	IRF7460PBFCT-ND†	2.28	1.47	1.14
	20	0.01	12	100	2.5	IRF7460PBFTR-ND†	3512.00/4,000		
	20	0.0065	16	130	2.5	IRF7456-ND	1.25	1.00	.72
	20	0.0065	16	130	2.5	IRF7456PBFCT-ND†	1.75	1.13	.88
	20	0.0065	16	130	2.5	IRF7456PBFTR-ND†	2800.00/4,000		
	20	0.007	15	120	2.5	IRF7457-ND	1.93	1.54	1.16
	20	0.007	15	120	2.5	IRF7457PBFCT-ND†	2.70	1.74	1.35
	20	0.007	15	120	2.5	IRF7457PBFTR-ND†	4160.00/4,000		
	20	0.022	8.7	35	2.5	IRF7401-ND	.90	.72	.52
	20	0.022	8.7	35	2.5	IRF7401PBFCT-ND†	1.25	.81	.63
	20	0.022	8.7	35	2.5	IRF7401TR-ND	1932.00/4,000		
	20	0.022	8.7	35	2.5	IRF7401PBFTR-ND†	1932.00/4,000		
	28	0.012	11.4	100	2.5	IRF7811A-ND	3.00	2.04	1.61
	28	0.012	11.4	100	2.5	IRF7811APBFCT-ND†	2.93	1.84	1.36
	28	0.012	11.4	100	2.5	IRF7811ATR-ND	4398.00/4,000		
	28	0.012	11.4	100	2.5	IRF7811APBFTR-ND†	4104.00/4,000		
	30	0.0075	15	120	2.5	IRF7455-ND	1.53	1.22	.87
	30	0.0075	15	120	2.5	IRF7455PBFCT-ND†	2.14	1.38	1.07
	30	0.0075	15	120	2.5	IRF7455PBFTR-ND†	3416.00/4,000		
	30	0.008	14	110	2.5	IRF7463-ND	1.40	1.12	.80
	30	0.008	14	110	2.5	IRF7463PBFCT-ND†	2.06	1.33	1.03
	30	0.008	14	110	2.5	IRF7463PBFTR-ND†	3292.00/4,000		
	30	0.009	±12.5	±50	2.5	SI4420DY-ND	3.18	2.54	1.91
	30	0.009	±12.5	±50	2.5	SI4420DYPBFCT-ND†	1.38	.92	.74
	30	0.009	±12.5	±50	2.5	SI4420DYPBFTR-ND†	2484.00/4,000		
	30	0.009	14	109	3.1	IRF7811W-ND	1.08	.86	.65
	30	0.009	14	109	3.1	IRF7811WPBFCT-ND†	1.72	1.08	.80
	30	0.009	14	109	3.1	IRF7811WPBFTR-ND†	2408.00/4,000		
	30	0.011	13	58	2.5	IRF7413-ND	1.32	.90	.72
	30	0.011	13	58	2.5	IRF7413PBFCT-ND†	1.34	.90	.72
	30	0.011	13	58	2.5	IRF7413TR-ND	2248.28/4,000		
	30	0.011	13	58	2.5	IRF7413PBFTR-ND†	2420.00/4,000		
	30	0.0125	11	90	2.5	IRF7466-ND	1.88	1.50	1.13
	30	0.0125	11	90	2.5	IRF7466PBFCT-ND†	2.63	1.69	1.32
	30	0.0125	11	90	2.5	IRF7466PBFTR-ND	4052.00/4,000		
	30	0.0135	10	50	2.5	SI4410DY-ND	1.08	.87	.62
	30	0.0135	10	50	2.5	SI4410DYPBFCT-ND†	1.30	.87	.70
	30	0.0135	10	50	2.5	SI4410DYPBFTR-ND†	2340.00/4,000		
	30	0.022	8.5	34	2.5	IRF7403-ND	.90	.72	.52
	30	0.022	8.5	34	2.5	IRF7403PBFCT-ND†	1.25	.81	.63
	30	0.022	8.5	34	2.5	IRF7403TR-ND	1832.00/4,000		
	30	0.022	8.5	34	2.5	IRF7403PBFTR-ND†	1932.00/4,000		
	30	0.03	7.3	58	2.5	IRF7201-ND	1.13	.75	.58
	30	0.03	7.3	58	2.5	IRF7201PBFCT-ND†	1.56	.98	.73
	30	0.03	7.3	58	2.5	IRF7201TR-ND	1800.00/4,000		
	30	0.03	7.3	58	2.5	IRF7201PBFTR-ND†	2184.00/4,000		
	40	0.015	9.4	75	2.5	IRF7468-ND	2.00	1.60	1.20
	40	0.015	9.4	75	2.5	IRF7468PBFCT-ND†	2.80	1.80	1.40
	40	0.015	9.4	75	2.5	IRF7468PBFTR-ND†	4320.00/4,000		
SO-8 “Fetky™” Mosfet and Schottky Diode									
7C	30	0.017	8.3	66	2.5	IRF7807VD1PBFCT-ND†	1.69	1.06	.79
	30	0.017	8.3	66	2.5	IRF7807VD1PBFTR-ND†	2368.00/4,000		
	30	0.017	8.3	66	2.5	IRF7807VD2-ND	1.40	.80	.68
	30	0.017	8.3	66	2.5	IRF7807VD2PBFCT-ND†	1.75	1.13	.88
	30	0.017	8.3	66	2.5	IRF7807VD2PBFTR-ND†	2800.00/4,000		
	30	0.025	8.3	66	2.5	IRF7807D1PBFCT-ND†	1.78	1.15	.90
	30	0.025	8.3	66	2.5	IRF7807D1PBFTR-ND†	2852.00/4,000		
	30	0.025	8.3	66	2.5	IRF7807D2PBFCT-ND†	1.78	1.15	.90
	30	0.025	8.3	66	2.5	IRF7807D2PBFTR-ND†	2852.00/4,000		
7E	30	0.028	6.2	48	2.0	IRF7901D1-ND	2.50	2.00	1.50
	30	0.028	6.2	48	2.0	IRF7901D1PBFCT-ND†	3.50	2.25	1.75
	30	0.028	6.2	48	2.0	IRF7901D1PBFTR-ND†	5400.00/4,000		
7F	30	0.035	5.8	33	2.5	IRF7421D1-ND	1.08	.77	.63
	30	0.035	5.8	33	2.5	IRF7421D1PBFCT-ND†	1.80	1.13	.84
	30	0.035	5.8	33	2.5	IRF7421D1PBFTR-ND†	2520.00/4,000		
7H	30	0.029	6.5	52	2.0	IRF7353D1-ND	.86	.69	.47
	30	0.029	6.5	52	2.0	IRF7353D1PBFCT-ND†	1.80	1.13	.84
	30	0.029	6.5	52	2.0	IRF7353D1PBFTR-ND†	2520.00/4,000		
	30	0.029	6.5	52	2.0	IRF7353D2-ND	1.33	1.06	.80
	30	0.029	6.5	52	2.0	IRF7353D2PBFCT-ND†	1.86	1.20	.93
	30	0.029	6.5	52	2.0	IRF7353D2PBFTR-ND†	2968.00/4,000		
DirectFET™									
13A	20	0.002	150	250	2.0	IRF6609CT-ND	3.75	2.50	2.00
	20	0.002	150	250	2.0	IRF6609TR-ND	7742.40/4,800		
	20	0.0025	32	260	2.8	IRF6691CT-ND	4.17	2.98	2.39
	20	0.0025	32	260	2.8	IRF6691TR-ND	9120.00/4,800		
	20	0.0027	27	220	2.8	IRF6620CT-ND	3.19	2.16	1.65

† RoHS Compliant

(Continued)

N and P Channel Surface Mount HEXFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID Cont. (A) 25°C	IDM (A)	PD Max. (W)	Digi-Key Part No.	Price Each 1	10	100
13A	20	0.0027	27	220	2.8	IRF6620TR-ND	6115.20/4,800		
	20	0.003	30	240	2.8	IRF6619CT-ND	3.15	2.10	1.68
	20	0.003	30	240	2.8	IRF6619TR-ND	6504.00/4,800		
	20	0.0046	18	140	—	IRF6636TR1CT-ND	2.85	2.30	1.84
	20	0.0046	18	140	—	IRF6636TR1TR-ND	1334.00/1,000		
	20	0.0057	16	120	2.1	IRF6623CT-ND	2.73	1.80	1.37
	20	0.0057	16	120	2.1	IRF6623TR-ND	5054.40/4,800		
	20	0.0064	18	140	2.2	IRF6636CT-ND	2.64	1.85	1.46
	20	0.0064	18	140	2.2	IRF6636TR-ND	5491.20/4,800		
	30	0.002	150	210	2.8	IRF6618CT-ND	3.68	2.46	2.04
	30	0.002	150	210	2.8	IRF6618TR-ND	7742.40/4,800		
	30	0.0024	32	250	2.8	IRF6635TR1CT-ND	3.55	2.84	2.28
	30	0.0024	32	250	2.8	IRF6635TR1TR-ND	1988.00/1,000		
	30	0.003	30	240	2.8	IRF6678CT-ND	3.56	2.50	2.04
	30	0.003	30	240	2.8	IRF6678TR-ND	7680.00/4,800		
	30	0.0033	24	190	2.8	IRF6612CT-ND	3.35	2.27	1.76
	30	0.0033	24	190	2.8	IRF6612TR-ND	6676.80/4,800		
	30	0.0033	27	220	3.6	IRF6607CT-ND	3.42	2.37	1.92
	30	0.0033	27	220	3.6	IRF6607TR-ND	7435.20/4,800		
	30	0.0034	27	220	2.8	IRF6611CT-ND	3.27	2.18	1.75
	30	0.0034	27	220	2.8	IRF6611TR-ND	6748.80/4,800		
	30	0.0039	28	200	3.6	IRF6603CT-ND	3.22	2.23	1.81
	30	0.0039	28	200	3.6	IRF6603TR-ND	7012.80/4,800		
	30	0.0052	16	130	—	IRF6626TR1CT-ND	3.10	2.50	2.00
	30	0.0052	16	130	—	IRF6626TR1TR-ND	1400.00/1,000		
	30	0.0062	14	120	2.1	IRF6617CT-ND	5.35	3.03	1.96
	30	0.0062	14	120	2.1	IRF6617TR-ND	6475.20/4,800		
	30	0.0071	16	130	2.2	IRF6626CT-ND	2.85	2.00	1.57
	30	0.0071	16	130	2.2	IRF6626TR-ND	5928.00/4,800		
	30	0.009	55	100	2.1	IRF6608CT-ND	2.38	1.56	1.32
	30	0.009	55	100	2.1	IRF6608TR-ND	5078.40/4,800		
	40	0.0041	150	180	89	IRF6613TR1CT-ND	3.08	2.27	1.76
	40	0.0041	150	180	89	IRF6613TR1TR-ND	1512.00/1,000		
	60	0.0055	86	260	89	IRF6648CT-ND†	3.23	2.58	2.07
	60	0.0055	86	260	89	IRF6648TR-ND†	1806.00/1,000		
	80	0.0076	12	96	—	IRF6646TR1CT-ND	4.46	3.60	2.88
	80	0.0076	12	96	—	IRF6646TR1TR-ND	1944.00/1,000		
13B	20	0.0022	30	240	—	IRF6619TR1CT-ND	3.41	2.75	2.20
	20	0.0022	30	240	—	IRF6619TR1TR-ND	1540.00/1,000		
	30	0.0023	30	240	—	IRF6678TR1CT-ND	4.06	3.28	2.62
	30	0.0023	30	240	—	IRF6678TR1TR-ND	1769.00/1,000		
	30	0.0026	27	220	—	IRF6611TR1CT-ND	3.53	2.85	2.28
	30	0.0026	27	220	—	IRF6611TR1TR-ND	1596.00/1,000		
	30	0.0082	14	110	—	IRF6637TR1CT-ND	2.98	2.40	1.92
	30	0.0082	14	110	—	IRF6637TR1TR-ND	1392.00/1,000		
	30	0.0115	12	92	2.3	IRF6604CT-ND	2.46	1.69	1.34
	30	0.0115	12	92	2.3	IRF6604TR-ND	5116.80/4,800		
	40	0.0046	19	150	—	IRF6616TR1CT-ND	2.79	2.25	1.80
	40	0.0046	19	150	—	IRF6616TR1TR-ND	1305.00/1,000		
13C	20	0.0046	15	120	—	IRF6610TR1CT-ND	2.28	1.84	1.47
	20	0.0046	15	120	—	IRF6610TR1TR-ND	1066.00/1,000		
	30	0.0093	12	96	—	IRF6621TR1CT-ND	2.48	2.00	1.60
	30	0.0093	12	96	—	IRF6621TR1TR-ND	1160.00/1,000		
MTP									
14	500	0.21	31	124	1140	19MT050XF-ND	42.52	34.48	28.73
Dual N- and P- Channel									
Micro-8 Logic Level									
5C	30/ -30	0.11/ -0.2	2.7/ -2.0	21/ -16	1.25	IRF7509CT-ND	.78	.59	.45
	30/ -30	0.11/ -0.2	2.7/ -2.0	21/ -16	1.25	IRF7509TR-ND	1404.00/4,000		
5C	20/ -20	.135/ -.27	2.4/ -1.7	19/ -14	1.25	IRF7507CT-ND	2.10	1.58	1.23
	20/ -20	.135/ -.27	2.4/ -1.7	19/ -14	1.25	IRF7507TR-ND	3780.00/4,000		
SO-8									
7A	30/ -30	0.029/ -0.058	6.5/ -4.9	30/ -30	2	IRF7319-ND	.90	.72	.52
	30/ -30	0.029/ -0.058	6.5/ -4.9	30/ -30	2	IRF7319PBFCT-ND†	1.08	.72	.58
	30/ -30	0.029/ -0.058	6.5/ -4.9	30/ -30	2	IRF7319PBFTR-ND†	1944.00/4,000		
	20/ -20	0.029/ -0.058	6.6/ -5.3	26/ -21	2	IRF7317-ND	1.03	.82	.59
	20/ -20	0.029/ -0.058	6.6/ -5.3	26/ -21	2	IRF7317PBFCT-ND†	3.45	2.30	1.84
	20/ -20	0.029/ -0.058	6.6/ -5.3	26/ -21	2	IRF7317PBFTR-ND†	6212.00/4,000		
SO-8 Logic Level									
7A	20/ -20	0.05/ -0.090	5.2/ -4.3	21/ -17	2	IRF7307-ND	.88	.70	.50
	20/ -20	0.05/ -0.090	5.2/ -4.3	21/ -17	2	IRF7307PBFCT-ND†	1.23	.79	.62
	20/ -20	0.05/ -0.090	5.2/ -4.3	21/ -17	2	IRF7307PBFTR-ND†	1892.00/4,000		
	25/ -25	.10/ -.25	3.5/ -2.3	14/ -10	2.0	IRF7105-ND	1.03	.68	.53
	25/ -25	.10/ -.25	3.5/ -2.3	14/ -10	2.0	IRF7105PBFCT-ND†	2.56	1.65	1.28
	25/ -25	.10/ -.25	3.5/ -2.3	14/ -10	2.0	IRF7105PBFTR-ND†	3944.00/4,000		
	30/ -30	0.05/ -0.10	4.0/ -3.0	16/ -12	1.4	IRF7309-ND	.95	.76	.55
	30/ -30	0.05/ -0.10	4.0/ -3.0	16/ -12	1.4	IRF7309PBFCT-ND†	1.33	.86	.67
	30/ -30	0.05/ -0.10	4.0/ -3.0	16/ -12	1.4	IRF7309PBFTR-ND†	2052.00/4,000		
	30/ -30	0.10/ -0.25	3.5/ -2.3	16/ -10	2	IRF9952-ND	1.83	1.46	1.04
	30/ -30	0.10/ -0.25	3.5/ -2.3	16/ -10	2	IRF9952PBFCT-ND†	2.92	1.83	1.36
	30/ -30	0.10/ -0.25	3.5/ -2.3	16/ -10	2	IRF9952PBFTR-ND†	4088.00/4,000		
	55/ -55	0.043/ -0.056	4.7/ -3.4	38/ -27	2	IRF7343-ND	1.25	1.00	.72
	55/ -55	0.043/ -0.056	4.7/ -3.4	38/ -27	2	IRF7343PBFCT-ND†	1.75	1.13	.88
	55/ -55	0.043/ -0.056	4.7/ -3.4	38/ -27	2	IRF7343TR-ND	2700.00/4,000		
	55/ -55	0.043/ -0.056	4.7/ -3.4	38/ -27	2	IRF7343PBFTR-ND†	2800.00/4,000		
7G	30/ -30	0.029/ -0.058	7.3/ -5.3	30/ -30	2.5	IRF7389-ND	2.64	2.12	1.51
	30/ -30	0.029/ -0.058	7.3/ -5.3	30/ -30	2.5	IRF7389PBFCT-ND†	3.17	2.12	1.70
	30/ -30	0.029/ -0.058	7.3/ -5.3	30/ -30	2.5	IRF7389PBFTR-ND†	5708.00/4,000		
	30/ -30	0.045/ -0.090	5.8/ -4.3	46/ -34	2.5	IRF7379-ND	3.00	2.40	1.71
	30/ -30	0.045/ -0.090	5.8/ -4.3	46/ -34	2.5	IRF7379PBFCT-ND†	3.60	2.40	1.92
	30/ -30	0.045/ -0.090	5.8/ -4.3	46/ -34	2.5	IRF7379PBFTR-ND†	6480.00/4,000		

† ***RoHS Compliant***

Photovoltaic Isolators

The PhotoVoltaic isolator (PVI) generates an electrically isolated DC voltage upon receipt of a DC input signal. The PVI is ideally suited for driving power MOSFETs, IGBTs or sensitive gate SCRs to form solid state relays.

Input Circuit			Output Circuit						
Vf (led)	Imin (mA)	Imax (mA)	Vout (dc)	Imin (µA)	Ton/Toff Max.	Package	Digi-Key Part No.	Price Each 1	10	100
1.4	5.0	40	8.0	10	5/0.25ms	8-Dip	PVI5013R-ND	6.02	4.30	3.44
1.4	5.0	40	8.0	10	5/0.25ms	8-SMD	PVI5013RS-ND	6.10	4.36	3.49
1.4	5.0	40	10	10	2.5/0.5ms	8-Dip	PVI5033R-ND	6.77	4.80	3.82
1.4	5.0	40	10	10	2.5/0.5ms	8-SMD	PVI5033RS-ND	6.82	4.84	3.85
1.4	2.0	50	8.0	10	3/0.22ms	MOD-8-Dip	PVI5050N-ND	4.65	3.26	2.54
1.4	2.0	50	8.0	10	3/0.22ms	MOD-8-Dip	PVI5080N-ND	4.45	3.18	2.58
1.4	2.0	50	8.0	10	.16/.22ms	8-Dip	PVI1050N-ND	6.05	4.51	3.76
1.4	2.0	50	8.0	10	3/0.22ms	8-SMD	PVI1050NS-ND	6.10	4.40	3.66
1.4	2.0	50	8.0	10	3/0.22ms	MOD-8-SMD	PVI5050NS-ND	4.71	3.30	2.57
1.4	2.0	50	8.0	10	3/0.22ms	MOD-8-SMD	PVI5080NS-ND	4.43	3.06	2.58

MOD-8

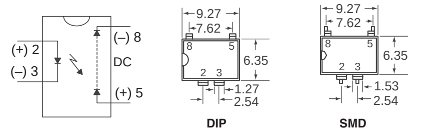

8-SMD

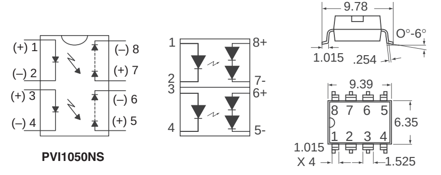

8-Dip

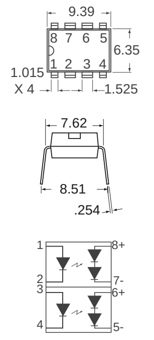

Semiconductors

Fig. 1

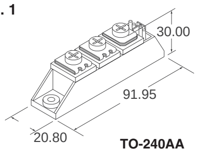

TO-240AA

Fig. 1a

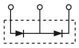

Fig. 1b

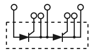

Fig. 1c

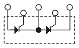

Fig. 2

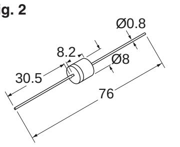

Fig. 3

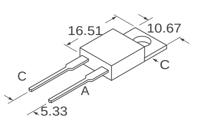

TO-220AC

Fig. 4

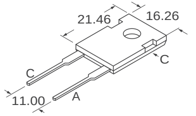

TO-247AD

Fig. 5

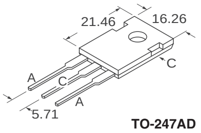

TO-247AD

Fig. 6

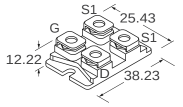

SOT-227B miniBLOC™

Fig. 6a

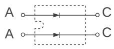

Fig. 6b

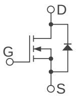

Fig. 6c

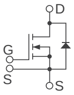

Fig. 7

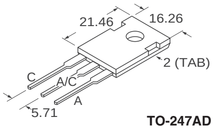

TO-247AD

Fig. 8

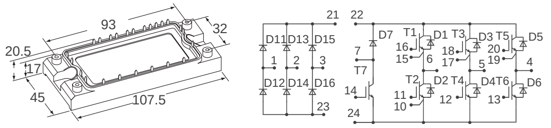

Fig. 9

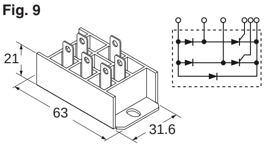

Fig. 10

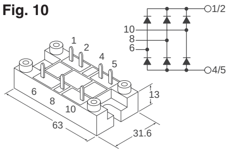

Fig. 11

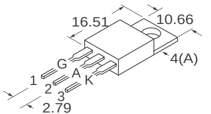

TO-220 AB

Description	Package	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Integrated Circuits						
4 Amp Dual Low-Side Ultrafast MOSFET Driver, with Enable	8-Dip	IXDD404PI-ND	2.06	1.87	1.63	IXDD404PI
4 Amp Dual Low-Side Ultrafast MOSFET Driver, with Enable	8-SOIC	IXDD404SI-ND	2.23	2.02	1.78	IXDD404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver, with Enable	16-SOIC	IXDD404SI-16-ND	2.46	2.23	1.95	IXDD404SI-16
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-Dip	IXDI404PI-ND	2.06	1.87	1.63	IXDI404PI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-SOIC	IXDI404SI-ND	2.23	2.02	1.76	IXDI404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	16-SOIC	IXDI404SI-16-ND	2.46	2.23	1.95	IXDI404SI-16
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-Dip	IXDN404PI-ND	2.06	1.87	1.63	IXDN404PI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-SOIC	IXDN404SI-ND	2.23	2.02	1.76	IXDN404SI
4 Amp Dual Low-Side Ultrafast MOSFET Driver	16-SOIC	IXDN404SI-16-ND	2.46	2.23	1.95	IXDN404SI-16
4 Amp Dual Low-Side Ultrafast MOSFET Driver	8-Dip	IXDF404PI-ND	2.06	1.87	1.63	IXDF404PI
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-220-5	IXDD408CI-ND	2.50	2.27	1.98	IXDD408CI
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	8-Dip	IXDD408PI-ND	2.18	1.98	1.72	IXDD408PI
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	8-SOIC	IXDD408SI-ND	2.31	2.09	1.82	IXDD408SI
8 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-263-5	IXDD408YI-ND	2.67	2.42	2.11	IXDD408YI
14 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-220-5	IXDD414CI-ND	3.07	2.78	2.43	IXDD414CI
14 Amp Low-Side Ultrafast MOSFET Driver, with Enable	8-Dip	IXDD414PI-ND	2.46	2.23	1.95	IXDD414PI
14 Amp Low-Side Ultrafast MOSFET Driver, with Enable	TO-263-5	IXDD414YI-ND	3.84	3.48	3.10	IXDD414YI
Full-Feature Low-Side Driver	16-Dip	IXBD4410PI-ND	3.99	3.33	2.65	IXBD4410PI
ISOSMART™ Half Bridge Driver Chipset	16-Dip	IXBD4411PI-ND	4.05	3.38	2.69	IXBD4411PI
Inverter Interface and Digital Deadtime Generator for 3-Phase PWM Controls	18-Dip	IXDP630PI-ND	4.77	3.98	3.18	IXDP630PI
High Performance Dual PWM Microstepping Controller	24-Dip	IXMS150PSI-ND	32.25	26.88	19.32	IXMS150PSI

Fig.	V_{RRM} V	I_{FAV} @ T_C A	°C	I_{FRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
					Diode Module				
1a	1200	2x120	105	2x180	MDD95-1 2N1B-ND	44.19	36.83	29.46	MDD95-12N1B
					Avalanche Diode				
2	1600	3.6	45	7	DSA2-16A-ND	8.28	6.90	4.58	DSA2-16A

Fig.	V_{RRM} V	I_{FAV} @ T_C A	°C	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
				Fast Recovery Epitaxial Diodes (FRED)				
3	600	8	115	DSEI8-06A-ND	1.08	.90	.72	DSEI8-06A
	600	14	100	DSEI12-06A-ND	1.44	1.20	.96	DSEI12-06A
	600	37	85	DSEI30-06A-ND	3.21	2.68	2.14	DSEI30-06A
	1000	12	100	DSEI12-10A-ND	1.59	1.33	1.06	DSEI12-10A
	1200	11	100	DSEI12-12A-ND	1.86	1.55	1.24	DSEI12-12A
	1200	17	85	DSEI20-12A-ND	2.88	2.40	1.59	DSEI20 -12A

Fig.	V_{RRM} V	I_{FAV} @ T_C A	°C	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
4	1000	30	85	DSEI30-10A-ND	4.65	3.88	3.10	DSEI30-10A
	1200	26	85	DSEI30-12A-ND	5.28	4.40	3.52	DSEI30-12A
	600	60	70	DSEI60-06A-ND	5.01	4.18	3.34	DSEI60-06A
	1000	60	60	DSEI60-10A-ND	6.63	5.53	4.42	DSEI60-10A
	1200	52	60	DSEI60-12A-ND	7.68	6.40	4.24	DSEI60-12A
5	600	2x30	85	DSEK60-06A-ND	7.17	5.98	4.78	DSEK60-06A
6a	200	2x123	70	DSEI2X121-02A-ND	36.03	30.03	24.02	DSEI2X121-02A
	600	2x60	70	DSEI2X61-06C-ND	23.07	19.23	15.38	DSEI2X61-06C
	1000	2x60	50	DSEI2X61-10B-ND	24.99	20.83	16.66	DSEI2X61-10B
	600	2x106	70	DSEI2X101-06A-ND	30.75	25.63	20.50	DSEI2X101-06A
	1000	2x30	50	DSEI2X31-10B-ND	21.36	17.80	14.23	DSEI2X31-10B
				HIPerFRED™ Epitaxial Diode with Soft Recovery				
4	600	30	135	DSEP30-06A-ND	4.02	3.35	2.23	DSEP30-06A
	1200	30	115	DSEP30-12A-ND	5.97	4.98	3.98	DSEP30-12A
6a	600	2x60	65	DSEP2X61-06A-ND	23.70	19.75	15.79	DSEP2X61-06A

Fig.	V_{RRM} V	I_{FAV} @ T_C A	°C	I_{FRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
					Phase-Leg Rectifier Diode				
7	1200	2x28	100	2x43	DSP25-12A-ND	4.35	3.63	2.90	DSP25-12A
	1600	2x28	100	2x43	DSP25-16A-ND	5.01	4.18	3.34	DSP25-16A

Three Phase Rectifier	Brake Chopper	Three Phase Inverter	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
		Converter-Brake-Inverter Modules - Fig. 8					
VRRM = 1600V IDAVM = 26A IFSM = 160A	VCES = 600V IC25 = 20A VCE(sat) = 1.9V	VCES = 600V IC25 = 20A VCE(sat) = 1.9V	MUBW10-06A7-ND	106.77	88.98	71.18	MUBW10-06A7
VRRM = 1600V IDAVM = 26A IFSM = 160A	VCES = 1200V IC25 = 20A VCE(sat) = 2.3V	VCES = 1200V IC25 = 20A VCE(sat) = 2.3V	MUBW10-12A7-ND	76.95	64.13	51.30	MUBW10-12A7

Fig.	V_{RRM} V	I_{FAV} @ T_C A	°C	V_F V	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
					Power Schottky Rectifier				
3	45	16	160	0.57	DSS16-0045A-ND	2.01	1.68	1.34	DSS16-0045A
5	15	2x20	135	0.32	DSSK40-0015B-ND	3.99	3.33	2.21	DSSK40-0015B
	45	2x30	150	0.60	DSSK60-0045A-ND	5.07	4.23	3.38	DSSK60-0045A
	150	2x30	155	0.69	DSSK60-015A-ND	8.67	7.23	5.78	DSSK60-015A
	15	2x35	130	0.33	DSSK70-0015B-ND	6.60	5.50	3.65	DSSK70-0015B
	45	2x40	125	0.45	DSSK80-0045B-ND	6.87	5.73	4.58	DSSK80-0045B
6a	100	2x40	110	0.70	DSS2X41-01A-ND	24.36	20.30	16.24	DSS2X41-01A
	100	2x60	105	0.73	DSS2X61-01A-ND	28.02	23.35	18.67	DSS2X61-01A
	45	2x60	105	0.66	DSS2X61-0045A-ND	21.09	17.58	14.06	DSS2X61-0045A
	45	2x120	100	0.59	DSS2X121-0045B-ND	36.75	30.63	24.50	DSS2X121-0045B
	100	2x160	150	0.80	DSS2X160-01A-ND	44.16	36.80	29.44	DSS2X160-01A

Fig.	V_{RRM} V	I_{dAVM} @ T_K A	°C	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
				Half Controlled Single Phase Rectifier Bridge with Freewheeling Diode				
9	1600	32	85	VHF28-16IO5-ND	48.51	40.43	32.34	VHF28-16IO5
				Half Controlled Three Phase Rectifier Bridge with Freewheeling Diode				
10	1600	54	90	VUO52-16NO1-ND	50.40	42.00	33.60	VUO52-16NO1

Fig.	V_{AK} V	I_D T_C = 25°C A	I_{AP} typ. mA	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
				Adjustable Current Regulators				
11	450	-0.3	10	IXCP10M45S-ND	1.76	1.60	1.39	IXCP10M45S

(Continued)

Fig. 12

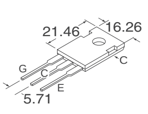

TO-247AD

Fig. 13

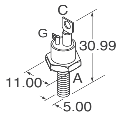

TO-64

Fig. 14

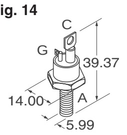

TO-48

Fig. 15

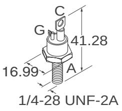

TO-65

Fig. 16

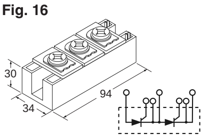

MCC162

Fig. 17

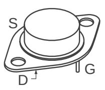

Fig. 18

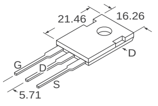

TO-247AD

Fig. 19

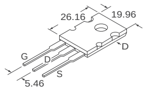

TO-264AA

Fig. 20

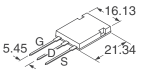

PLUS247™

Fig. 21

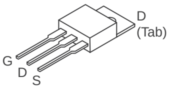

TO-220

Fig. 22

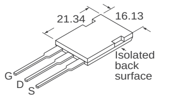

ISOPLUS247™

Fig. 23

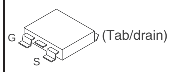

TO-268

Fig. 24

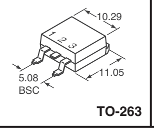

TO-263

Fig. 25

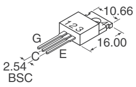

TO-220AB

Fig. 26

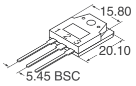

TO-3P

Fig. 27

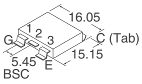

TO-268

Fig.	V_{CES} V	I_C T_C = 25°C A	V_{CE} (sat) max. V	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
IGBTs — Insulated Gate Bipolar Transistors – High Speed								
12	600	48	2.7	IXGH24N60A-ND	6.20	5.61	4.98	IXGH24N60A
	600	75	2.7	IXGH50N60A-ND	17.01	15.39	13.66	IXGH50N60A
	600	48	2.5	IXGH24N60B-ND	6.03	5.46	4.76	IXGH24N60B
	600	48	2.5	IXGH24N60C-ND	6.24	5.65	4.93	IXGH24N60C
	600	60	2.5	IXGH32N60C-ND	7.33	6.64	5.79	IXGH32N60C
	600	75	2.5	IXGH50N60B-ND	11.53	10.44	9.12	IXGH50N60B
	1000	50	4.0	IXGH25N100A-ND	29.64	24.70	19.76	IXGH25N100A
	600	75	3.0	IXSH40N60A-ND	19.44	16.20	12.96	IXSH40N60A
IGBTs — Insulated Gate Bipolar Transistors with Diode, Combi Pack – low V_{CE} (sat)								
12	1000	20	3.5	IXGH10N100U1-ND	11.66	10.55	9.37	IXGH10N100U1
	1000	34	3.5	IXGH17N100U1-ND	11.91	10.78	9.57	IXGH17N100U1
	1700	25	3.3	IXBH16N170-ND	16.47	13.73	9.12	IXBH16N170
	600	60	2.3	IXGH32N60BU1-ND	12.96	10.80	7.16	IGH32N60BU1
	600	75	3.0	IXGM40N60A-ND	42.66	35.55	28.43	IXGM40N60A
IGBTs — Insulated Gate Bipolar Transistors w ith Diode, Combi Pack – High Speed								
12	600	48	2.7	IXGH24N60AU1-ND	9.49	8.59	7.63	IXGH24N60AU1
	600	60	1.8	IXGH30N60BD1-ND	10.77	9.75	8.52	IXGH30N60BD1
	600	60	2.5	IXGH32N60CD1-ND	9.26	8.38	7.32	IXGH32N60CD1
	600	55	2.5	IXSH30N60CD1-ND	11.09	10.04	8.77	IXSH30N60CD1
	1000	20	4.0	IXGH10N100AU1-ND	11.30	10.23	9.09	IXGH10N100AU1
	1000	34	4.0	IXGH17N100AU1-ND	12.08	10.93	9.71	IXGH17N100AU1
IGBT High Speed With Diode								
12	600	20	2.5	IXSH10N60B2D1-ND	3.02	2.74	2.45	IXSH10N60B2D1
	600	35	2.5	IXSH20N60B2D1-ND	4.28	3.88	3.47	IXSH20N60B2D1
	600	48	2.5	IXSH30N60B2D1-ND	5.52	5.00	4.48	IXSH30N60B2D1
	600	40	2.5	IXSH40N60B2D1-ND	6.95	6.29	5.63	IXSH40N60B2D1
24	600	20	2.5	IXSA10N60B2D1-ND	2.46	2.23	1.99	IXSA10N60B2D1
	600	35	2.5	IXSA20N60B2D1-ND	3.76	3.41	3.05	IXSA20N60B2D1
25	600	20	2.5	IXSP10N60B2D1-ND	2.42	2.19	1.96	IXSP10N60B2D1
	600	35	2.5	IXSP20N60B2D1-ND	3.72	3.37	3.01	IXSP20N60B2D1
26	600	20	2.5	IXSQ10N60B2D1-ND	2.71	2.46	2.20	IXSQ10N60B2D1
	600	35	2.5	IXSQ20N60B2D1-ND	3.99	3.61	3.23	IXSQ20N60B2D1
27	600	48	2.5	IXST30N60B2D1-ND	6.55	5.93	5.31	IXST30N60B2D1
	600	48	2.5	IXST40N60B2D1-ND	8.00	7.24	6.48	IXST40N60B2D1

Fig.	V_{DRM} V	I_{TAV} T_C = 85°C A	I_{TRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
Phase Control SCRs								
13	800	16	25	CS8-08IO2-ND	10.83	9.03	7.22	CS8-08IO2
	1200	16	25	CS8-12IO2-ND	11.91	9.93	7.94	CS8-12IO2
14	800	25	50	CS23-08IO2-ND	17.46	14.55	11.64	CS23-08IO2
	1200	25	50	CS23-12IO2-ND	18.36	15.30	12.24	CS23-12IO2
15	800	60	120	CS35-08IO4-ND	22.68	18.90	15.12	CS35-08IO4
	1200	60	120	CS35-12IO4-ND	23.76	19.80	15.84	CS35-12IO4
	1400	60	120	CS35-14IO4-ND	26.64	22.20	17.76	CS35-14IO4

Fig.	V_{DRM} VA	I_{TAV} @ T_C	°C	I_{TRMS} A	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
SCR Module									
1b	1200	2x116	85	2x180	MCC95-12IO1B-ND	53.76	44.80	35.84	MCC95-12IO1B
	1600	116	85	180	MCC95-16IO8B-ND	61.95	51.63	41.30	MCC95-16IO8B
	1600	2x32	85	2x50	MCC26-16IO1B-ND	38.16	31.80	25.44	MCC26-16IO1B
1c	1600	2x116	85	2x180	MCC95-16IO1B-ND	62.58	52.15	41.72	MCC95-16IO1B
16	1600	2x190	85	2x300	MCC162-16IO1-ND	145.74	121.45	97.16	MCC162-16IO1

Fig.	V_{DSS} max. V	I_{D25} T_C = 25°C A	R_{DS}(on) T_C = 25°C Ω	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
MOSFETs — N-Channel Enhancement-Mode								
17	200	50	.45	IXFM50N20-ND	23.46	19.55	15.65	IXFM50N20
18	500	14	0.4	IRFP450X-ND	4.49	4.07	3.56	IRFP450
MOSFETs — P-Channel Enhancement-Mode								
18	-200	-24	.11	IXTH24P20-ND	9.84	8.20	5.45	IXTH24P20
	-600	-10	1.0	IXTH10P60-ND	21.27	17.73	11.77	IXTH10P60
MegaMOSFET™ — N-Channel Enhancement Mode - High Voltage								
18	1100	13	0.920	IXTH13N110-ND	17.58	15.91	13.89	IXTH13N110
MegaMOSFET™ N-Channel Enhancement Mode								
18	500	20	0.27	IRFP460IX-ND	6.15	5.57	4.86	IRFP460
	600	20	0.35	IXTH20N60-ND	10.42	9.43	8.23	IXTH20N60

Fig.	V_{DSS} max. V	I_{D25} T_C = 25°C A	R_{DS}(on) T_C = 25°C Ω	Digi-Key Part No.	Price Each 1	10	50	IXYS Part No.
MOSFETs — N-Channel Enhancement-Mode with Fast Intrinsic Diode								
18	70	76	0.011	IXFH76N07-11-ND	8.19	7.41	6.47	IXFH76N07-11
	70	76	0.012	IXFH76N07-12-ND	7.79	7.05	6.15	IXFH76N07-12
	100	80	0.015	IXFH80N10Q-ND	11.55	10.45	9.13	IXFH80N10Q
	200	42	0.06	IXFH42N20-ND	13.50	12.22	10.85	IXFH42N20
	200	50	0.045	IXFH50N20-ND	8.19	7.41	6.47	IXFH50N20
	200	58	0.04	IXFH58N20-ND	8.55	7.74	6.76	IXFH58N20
	200	58	0.040	IXFH58N20Q-ND	8.55	7.74	6.76	IXFH58N20Q
	200	80	0.028	IXFH80N20Q-ND	12.33	11.16	9.74	IXFH80N20Q
	300	40	0.08	IXFH40N30-ND	8.36	7.57	6.61	IXFH40N30
	300	40	0.085	IXFH40N30Q-ND	8.36	7.57	6.61	IXFH40N30Q
	300	40	0.085	IXTH40N30-ND	10.77	9.75	8.52	IXTH40N30
	300	52	0.060	IXFH52N30Q-ND	12.71	11.50	10.04	IXFH52N30Q
	500	13	0.4	IXFH13N50-ND	4.56	4.13	3.62	IXFH13N50
	500	21	0.25	IXFH21N50-ND	9.87	8.93	7.94	IXFH21N50
	500	24	0.23	IXFH24N50-ND	7.94	7.19	6.27	IXFH24N50
	500	26	0.20	IXFH26N50-ND	8.38	7.59	6.62	IXFH26N50
	500	26	0.20	IXFH26N50Q-ND	8.38	7.59	6.62	IXFH26N50Q
	500	32	0.15	IXFH32N50-ND	13.61	12.32	10.76	IXFH32N50
	600	20	0.35	IXFH20N60-ND	9.56	8.65	7.55	IXFH20N60
	600	26	0.250	IXFH26N60Q-ND	12.20	11.04	9.64	IXFH26N60Q
	800	7	1.4	IXFH7N80-ND	6.99	6.33	5.62	IXFH7N80
	800	13	0.80	IXFH13N80-ND	10.56	9.56	8.35	IXFH13N80
	800	15	0.60	IXFH15N80-ND	13.92	12.60	11.01	IXFH15N80
	800	15	0.600	IXFH15N80Q-ND	13.92	12.60	11.01	IXFH15N80Q
	800	20	0.420	IXFH20N80Q-ND	15.41	13.95	12.18	IXFH20N80Q
	900	6	1.8	IXFH6N90-ND	8.11	7.34	6.51	IXFH6N90
	900	10	1.1	IXFH10N90-ND	17.56	15.89	14.11	IXFH10N90
	1000	6	2.0	IXFH6N100-ND	7.48	6.77	5.91	IXFH6N100
	1000	10	1.2	IXFH10N100-ND	13.38	12.11	10.57	IXFH10N100
	1000	12	1.05	IXFH12N100-ND	14.11	12.77	11.16	IXFH12N100
19	70	110	0.006	IXFK110N07-ND	20.37	18.43	16.36	IXFK110N07
	100	180	0.008	IXFK180N10-ND	24.45	20.38	16.30	IXFK180N10
	200	90	0.020	IXFK90N20-ND	16.61	15.03	13.45	IXFK90N20
	200	120	0.017	IXFK120N20-ND	25.68	21.40	17.12	IXFK120N20
	300	73	0.045	IXFK73N30-ND	24.48	20.40	16.32	IXFK73N30
	500	48	0.10	IXFK48N50-ND	26.94	22.45	17.96	IXFK48N50
	500	55	0.085	IXFK55N50-ND	33.48	27.90	22.32	IXFK55N50
	600	36	0.180	IXFK36N60-ND	26.49	22.08	17.66	IXFK36N60
	600	44	0.130	IXFK44N60-ND	28.98	24.15	19.32	IXFK44N60
	800	27	0.300	IXFK27N80-ND	48.30	40.25	32.20	IXFK27N80
	800	34	0.240	IXFK34N80-ND	30.87	25.73	20.58	IXFK34N80
	1000	24	0.390	IXFK24N100-ND	33.87	28.23	22.58	IXFK24N100
20	200	120	0.017	IXFX120N20-ND	16.63	15.05	13.15	IXFX120N20
	500	55	0.080	IXFX55N50-ND	23.81	21.55	18.82	IXFX55N50
	1000	15	0.70	IXFX15N100-ND	14.99	13.57	11.85	IXFX15N100
MOSFETs — N-Channel Enhancement-Avalanche Rated, High Voltage								
21	1200	3	4.5	IXTP3N120-ND	4.77	4.32	3.77	IXTP3N120
MOSFETs — MiniBLOC™ N-Channel Enhancement-Mode with Fast Intrinsic Diode								
6a	70	200	0.006	IXFN200N07-ND	39.03	32.53	26.02	IXFN200N07
	200	106	0.020	IXFN106N20-ND	37.80	31.50	25.20	IXFN106N20
	200	180	0.010	IXFN180N20-ND	65.61	54.68	43.74	IXFN180N20
	500	44	0.12	IXFN44N50-ND	35.70	29.75	23.80	IXFN44N50
	500	48	0.10	IXFN48N50-ND	36.42	30.35	24.28	IXFN48N50
	1000	36	0.24	IXFN36N100-ND	87.33	72.78	58.22	IXFN36N100
20	100	180	0.008	IXFX180N10-ND	16.63	15.05	13.15	IXFX180N10
6b	200	120	0.017	IXFN120N20-ND	42.81	35.68	28.54	IXFN120N20
6c	500	80	0.050	IXFN80N50-ND	72.30	60.25	48.20	IXFN80N50
	900	26	0.300	IXFN26N90-ND	51.24	42.70	34.16	IXFN26N90
	1000	24	0.390	IXFN24N100-ND	50.79	42.33	33.86	IXFN24N100
	300	130	0.018	IXFN130N30-ND	71.91	59.93	47.94	IXFN130N30
	600	36	0.18	IXFN36N60-ND	45.51	37.93	30.34	IXFN36N60
MOSFETs — ISOPLUS247™ N-Channel Enhancement-Mode with Fast Intrinsic Diode								
22	100	165	0.008	IXFR180N10-ND	18.50	16.74	14.62	IXFR180N10
	200	105	0.017	IXFR120N20-ND	18.86	17.07	14.90	IXFR120N20
	600	38	0.130	IXFR44N60-ND	21.23	19.21	16.78	IXFR44N60
MOSFETs — N-Channel Enhancement-Mode Avalanche Rated								
20	200	90	0.022	IXFX90N20Q-ND	15.33	13.87	12.11	IXFX90N20Q
	300	90	0.033	IXFX90N30-ND	16.78	15.19	13.26	IXFX90N30
	800	34	0.240	IXFX34N80-ND	19.40	17.56	15.34	IXFX34N80
23	200	58	0.040	IXFT58N20Q-ND	12.24	11.08	9.67	IXFT58N20Q
	500	32	0.150	IXFT32N50Q-ND	13.82	12.51	10.92	IXFT32N50Q
MOSFETs — P-Channel Enhancement Mode Avalanche Rated								
18	-500	-7	1.500	IXTH7P50-ND	9.16	8.29	7.24	IXTH7P50
	-500	-8	1.200	IXTH8P50-ND	9.62	8.71	7.60	IXTH8P50
	-500	-10	0.900	IXTH10P50-ND	11.19	10.13	8.85	IXTH10P50
	-500	-11	0.750	IXTH11P50-ND	12.45	11.27	9.84	IXTH11P50

crydom™ Power Components

Triacs: General Description: Crydom's general purpose Triac's (CTA/CTB Series) come in 6A, 8A, 12A, 16A, 24A and 25A ratings, up to 1,000V. Used for general purpose power control such as solenoid valves, kitchen equipment and phase control applications. Use Alternistor (No Snubber) versions for highly inductive loads such as controls for motors and transformers. Logic Triac's are available making them broadly suitable for logic/microcontroller control. Use Logic Triac's for light dimming, power tools control, ovens, coffee makers, dishwashers and washing machines. The (CHT Series) are high temperature rated (150°C). **Specifications:** Vgt(maximum): 1.3V; Vgd(minimum): .2V; Non Repetitive Surge Peak On-State Current: 50Hz-80A, 60Hz-84A; dv/dt MINIMUM: (TW)20V/uS, (CW) 400V/uS, (BW) 1000V/uS Operating Temperature Range: -40°C ~ 125°C UL File E72445

SCRs: General Description: Crydom SCRs (CYN Series) are available in 16A and 25A ratings, up to 1,000V. They are suitable for general purpose AC switching applications for industrial equipment, welders and capacitive filter soft start (Inrush current control) applications. Suitable for most general purpose power switching applications and has been used in literally thousands and thousands of power circuit applications. **Specifications:** Vgt(maximum): 1.3V; Vgd(minimum): .2V; Non Repetitive Surge Peak On-State Current: 50Hz-320A, 60Hz-350A; dv/dt MINIMUM: 1000v/uS Operating Temperature Range: -40°C ~ 125°C UL File E72445

Rectifier Diodes: General Description: The Rectifiers (CRNA and CRNB Series) are available in 15A, 20A and 25A ratings, up to 1,000V. They offer exceptional full cycle non-repetitive surge peak on-state current ratings ranging from 225A to 350A. Use for power rectification of AC voltages to DC voltages. Also, use for battery isolation applications and freewheel diode applications for voltage surges. **Specifications:** Vfm: 1.1V; Non Repetitive Surge Peak On-State Current: 50Hz-188A, 60Hz-225A; Operating Temperature Range: -40°C ~ 125°C UL File E72445

Fig. 1

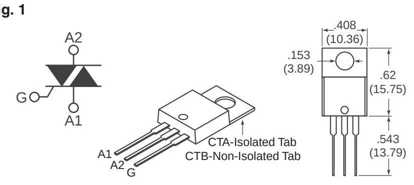

Fig. 2

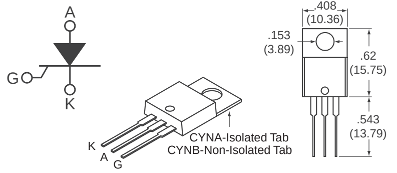

Fig. 3

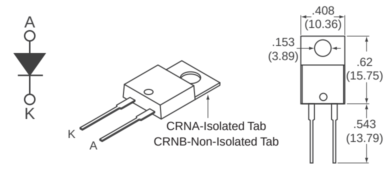

Triacs

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT} (mA)	Features	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Crydom Part No.
Logic Triacs									
1	400	6	10	Isolated	CC1387-ND	1.46	1.27	.98	CTA06-400SW
	600	6	10	Isolated	CC1391-ND	1.53	1.33	1.03	CTA06-600SW
	600	6	5	Isolated	CC1490-ND	1.60	1.39	1.07	CTA06-600TW
	600	6	5	Non-Isolated	CC1431-ND	1.44	1.25	.97	CTB06-600TW
	400	8	5	Isolated	CC1396-ND	1.61	1.40	1.08	CTA08-400TW
	600	8	5	Isolated	CC1401-ND	1.69	1.47	1.13	CTA08-600TW
	600	8	5	Non-Isolated	CC1440-ND	1.52	1.32	1.02	CTB08-600TW
	800	8	10	Non-Isolated	CC1443-ND	1.50	1.31	1.01	CTB08-800SW
	800	8	5	Non-Isolated	CC1444-ND	1.57	1.36	1.05	CTB08-800TW
Alternistor (No Snubber)									
1	600	6	35	Isolated	CC1390-ND	1.46	1.27	.98	CTA06-600CW
	1000	6	50	Isolated	CC1498-ND	1.62	1.41	1.09	CTA06-1000BW
	400	6	35	Non-Isolated	CC1429-ND	1.25	1.09	.84	CTB06-400CW
	1000	6	50	Non-Isolated	CC1503-ND	1.46	1.27	.98	CTB06-1000BW
	400	8	35	Isolated	CC1395-ND	1.46	1.27	.98	CTA08-400CW
	600	8	50	Isolated	CC1398-ND	1.50	1.30	1.00	CTA08-600BW
	600	8	35	Isolated	CC1400-ND	1.54	1.34	1.03	CTA08-600CW
	800	8	35	Isolated	CC1402-ND	1.59	1.39	1.07	CTA08-800CW
	1000	8	50	Isolated	CC1499-ND	1.71	1.48	1.14	CTA08-1000BW
	400	8	50	Non-Isolated	CC1434-ND	1.28	1.12	.86	CTB08-400BW
	400	8	35	Non-Isolated	CC1436-ND	1.32	1.15	.88	CTB08-400CW
	600	8	50	Non-Isolated	CC1438-ND	1.35	1.17	.90	CTB08-600BW
	600	8	35	Non-Isolated	CC1439-ND	1.38	1.20	.93	CTB08-600CW
	800	8	50	Non-Isolated	CC1441-ND	1.40	1.22	.94	CTB08-800BW
	800	8	35	Non-Isolated	CC1442-ND	1.43	1.25	.96	CTB08-800CW
	1000	8	50	Non-Isolated	CC1504-ND	1.54	1.34	1.03	CTB08-1000BW
	400	12	50	Isolated	CC1405-ND	1.60	1.39	1.07	CTA12-400BW
	600	12	50	Isolated	CC1407-ND	1.68	1.46	1.12	CTA12-600BW
	800	12	50	Isolated	CC1409-ND	1.74	1.52	1.17	CTA12-800BW
	1000	12	50	Isolated	CC1500-ND	1.91	1.66	1.28	CTA12-1000BW
	400	12	35	Non-Isolated	CC1448-ND	1.47	1.28	.99	CTB12-400CW
	600	12	50	Non-Isolated	CC1450-ND	1.51	1.31	1.01	CTB12-600BW
	600	12	35	Non-Isolated	CC1452-ND	1.55	1.35	1.04	CTB12-600CW
	800	12	35	Non-Isolated	CC1454-ND	1.61	1.40	1.08	CTB12-800CW
	1000	12	50	Non-Isolated	CC1505-ND	1.72	1.49	1.15	CTB12-1000BW
	400	16	50	Isolated	CC1413-ND	1.76	1.53	1.18	CTA16-400BW
	400	16	35	Isolated	CC1414-ND	1.80	1.56	1.20	CTA16-400CW
	600	16	50	Isolated	CC1416-ND	1.84	1.60	1.23	CTA16-600BW
	600	16	35	Isolated	CC1417-ND	1.50	1.25	1.05	CTA16-600CW
	800	16	50	Isolated	CC1419-ND	1.52	1.27	1.07	CTA16-800BW
	800	16	35	Isolated	CC1420-ND	1.55	1.29	1.09	CTA16-800CW
	1000	16	50	Isolated	CC1501-ND	2.04	1.78	1.37	CTA16-1000BW
	400	16	50	Non-Isolated	CC1457-ND	1.59	1.38	1.06	CTB16-400BW
	400	16	35	Non-Isolated	CC1458-ND	1.62	1.41	1.08	CTB16-400CW
	600	16	50	Non-Isolated	CC1460-ND	1.65	1.44	1.11	CTB16-600BW
	600	16	35	Non-Isolated	CC1462-ND	1.69	1.47	1.13	CTB16-600CW
	800	16	50	Non-Isolated	CC1464-ND	1.70	1.48	1.14	CTB16-800BW
	800	16	35	Non-Isolated	CC1466-ND	1.74	1.51	1.16	CTB16-800CW
	1000	16	50	Non-Isolated	CC1506-ND	1.84	1.60	1.23	CTB16-1000BW
	400	24	50	Isolated	CC1422-ND	1.71	1.43	1.20	CTA24-400BW
	600	24	50	Isolated	CC1424-ND	1.77	1.48	1.24	CTA24-600BW
	600	24	35	Isolated	CC1425-ND	1.80	1.50	1.26	CTA24-600CW
	800	24	50	Isolated	CC1426-ND	1.82	1.52	1.28	CTA24-800BW
	800	24	35	Isolated	CC1427-ND	1.85	1.54	1.30	CTA24-800CW
	1000	24	50	Isolated	CC1502-ND	2.42	2.10	1.62	CTA24-1000BW
	400	24	50	Non-Isolated	CC1469-ND	1.54	1.29	1.08	CTB24-400BW
	600	24	50	Non-Isolated	CC1471-ND	1.59	1.33	1.12	CTB24-600BW
	800	24	50	Non-Isolated	CC1473-ND	1.63	1.37	1.15	CTB24-800BW
	1000	24	50	Non-Isolated	CC1507-ND	2.18	1.89	1.46	CTB24-1000BW
High Temp Alternistors (No Snubber)									
1	600	12	35	Isolated	CC1352-ND	1.57	1.31	1.10	CHTA12-600
	800	12	35	Isolated	CC1353-ND	1.62	1.35	1.14	CHTA12-800
	600	12	35	Non-Isolated	CC1356-ND	1.79	1.56	1.20	CHTB12-600
	800	12	35	Non-Isolated	CC1357-ND	1.85	1.61	1.24	CHTB12-800
	600	25	50	Isolated	CC1354-ND	2.00	1.67	1.40	CHTA24-600
	800	25	50	Isolated	CC1355-ND	2.04	1.70	1.43	CHTA24-800
	600	25	50	Non-Isolated	CC1358-ND	1.82	1.52	1.28	CHTB24-600
	800	25	50	Non-Isolated	CC1359-ND	1.86	1.55	1.31	CHTB24-800
Standard Triacs									
1	400	6	50	Isolated	CC1385-ND	1.25	1.09	.84	CTA06-400B
	400	6	25	Isolated	CC1386-ND	1.32	1.15	.88	CTA06-400C
	600	6	50	Isolated	CC1388-ND	1.32	1.15	.88	CTA06-600B
	600	6	25	Isolated	CC1389-ND	1.39	1.21	.93	CTA06-600C
	600	6	25	Non-Isolated	CC1430-ND	1.25	1.09	.84	CTB06-600C
	400	8	50	Isolated	CC1393-ND	1.31	1.14	.88	CTA08-400B
	400	8	25	Isolated	CC1394-ND	1.39	1.21	.93	CTA08-400C
1	600	8	50	Isolated	CC1397-ND	1.39	1.21	.93	CTA08-600B
	600	8	25	Isolated	CC1399-ND	1.46	1.27	.98	CTA08-600C
	400	8	50	Non-Isolated	CC1433-ND	1.18	1.03	.79	CTB08-400B
	400	8	25	Non-Isolated	CC1435-ND	1.25	1.09	.84	CTB08-400C
	600	8	50	Non-Isolated	CC1437-ND	1.25	1.09	.84	CTB08-600B
	400	12	50	Isolated	CC1404-ND	1.47	1.28	.98	CTA12-400B
	400	12	25	Isolated	CC1406-ND	1.55	1.35	1.04	CTA12-400C
	600	12	50	Isolated	CC1491-ND	1.55	1.35	1.04	CTA12-600B
	600	12	25	Isolated	CC1408-ND	1.64	1.42	1.10	CTA12-600C
	800	12	25	Isolated	CC1410-ND	1.70	1.48	1.14	CTA12-800C
	400	12	50	Non-Isolated	CC1446-ND	1.32	1.15	.89	CTB12-400B
	400	12	25	Non-Isolated	CC1447-ND	1.40	1.22	.94	CTB12-400C
	600	12	50	Non-Isolated	CC1449-ND	1.40	1.22	.94	CTB12-600B
	600	12	25	Non-Isolated	CC1451-ND	1.47	1.28	.99	CTB12-600C
	800	12	25	Non-Isolated	CC1453-ND	1.53	1.33	1.03	CTB12-800C
	400	16	50	Isolated	CC1412-ND	1.65	1.43	1.10	CTA16-400B
	600	16	50	Isolated	CC1415-ND	1.73	1.50	1.15	CTA16-600B
	800	16	50	Isolated	CC1418-ND	1.78	1.55	1.19	CTA16-800B
	400	16	50	Non-Isolated	CC1456-ND	1.49	1.29	.99	CTB16-400B
	600	16	50	Non-Isolated	CC1459-ND	1.55	1.35	1.04	CTB16-600B
	600	16	25	Non-Isolated	CC1461-ND	1.62	1.41	1.08	CTB16-600C
	800	16	50	Non-Isolated	CC1463-ND	1.60	1.39	1.07	CTB16-800B
	800	16	25	Non-Isolated	CC1465-ND	1.67	1.45	1.12	CTB16-800C
	600	24	50	Isolated	CC1423-ND	1.68	1.40	1.18	CTA24-600B
	400	24	50	Non-Isolated	CC1468-ND	1.82	1.58	1.22	CTB24-400B
	600	24	50	Non-Isolated	CC1470-ND	1.51	1.26	1.06	CTB24-600B
	800	24	50	Non-Isolated	CC1472-ND	1.55	1.30	1.09	CTB24-800B

SCRs

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	R_d (Max.)	Features	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Crydom Part No.
2	400	16	23mΩ	Isolated	CC1475-ND	1.84	1.60	1.23	CYNA16-400
	600	16	23mΩ	Isolated	CC1476-ND	1.53	1.28	1.08	CYNA16-600
	800	16	23mΩ	Isolated	CC1477-ND	1.59	1.33	1.12	CYNA16-800
	1000	16	23mΩ	Isolated	CC1508-ND	1.71	1.43	1.20	CYNA16-1000
	400	16	23mΩ	Non-Isolated	CC1483-ND	1.65	1.44	1.11	CYNB16-400
	600	16	23mΩ	Non-Isolated	CC1484-ND	1.72	1.50	1.15	CYNB16-600
	800	16	23mΩ	Non-Isolated	CC1485-ND	1.79	1.55	1.20	CYNB16-800
	1000	16	23mΩ	Non-Isolated	CC1510-ND	1.54	1.29	1.08	CYNB16-1000
	400	25	14mΩ	Isolated	CC1479-ND	1.98	1.65	1.39	CYNA25-400
	600	25	14mΩ	Isolated	CC1480-ND	2.04	1.70	1.43	CYNA25-600
	800	25	14mΩ	Isolated	CC1481-ND	2.10	1.75	1.47	CYNA25-800
	1000	25	14mΩ	Isolated	CC1509-ND	2.22	1.85	1.56	CYNA25-1000
	400	25	14mΩ	Non-Isolated	CC1487-ND	1.78	1.49	1.25	CYNB25-400
	600	25	14mΩ	Non-Isolated	CC1488-ND	1.84	1.53	1.29	CYNB25-600
	800	25	14mΩ	Non-Isolated	CC1489-ND	1.89	1.58	1.33	CYNB25-800
	1000	25	14mΩ	Non-Isolated	CC1511-ND	2.00	1.67	1.40	CYNB25-1000

Rectifier Diodes

Fig.	V_{DRM} (V)	$I_{F(RMS)}$ (A)	V_{FM} (V)	Features	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Crydom Part No.
3	400	15	1.1	Isolated	CC1361-ND	1.84	1.60	1.23	CRNA15-400
	600	15	1.1	Isolated	CC1362-ND	1.53	1.28	1.08	CRNA15-600
	800	15	1.1	Isolated	CC1363-ND	1.60	1.39	1.07	CRNA15-800
	1000	15	1.1	Isolated	CC1492-ND	1.71	1.43	1.20	CRNA15-1000
	400	15	1.1	Non-Isolated	CC1373-ND	1.65	1.44	1.11	CRNB15-400
	600	15	1.1	Non-Isolated	CC1374-ND	1.72	1.50	1.15	CRNB15-600
	800	15	1.1	Non-Isolated	CC1375-ND	1.79	1.55	1.20	CRNB15-800
	1000	15	1.1	Non-Isolated	CC1495-ND	1.54	1.29	1.08	CRNB15-1000
	400	20	1.1	Isolated	CC1365-ND	1.71	1.43	1.20	CRNA20-400
	600	20	1.1	Isolated	CC1366-ND	1.77	1.48	1.24	CRNA20-600
	800	20	1.1	Isolated	CC1367-ND	1.83	1.53	1.29	CRNA20-800
	1000	20	1.1	Isolated	CC1493-ND	1.95	1.63	1.37	CRNA20-1000
	400	20	1.1	Non-Isolated	CC1377-ND	1.54	1.29	1.08	CRNB20-400
	600	20	1.1	Non-Isolated	CC1378-ND	1.59	1.33	1.12	CRNB20-600
	800	20	1.1	Non-Isolated	CC1379-ND	1.65	1.38	1.16	CRNB20-800
	1000	20	1.1	Non-Isolated	CC1496-ND	1.76	1.47	1.23	CRNB20-1000
	400	25	1.1	Isolated	CC1369-ND	1.98	1.65	1.39	CRNA25-400
	600	25	1.1	Isolated	CC1370-ND	2.04	1.70	1.43	CRNA25-600
	800	25	1.1	Isolated	CC1371-ND	2.10	1.75	1.47	CRNA25-800
	1000	25	1.1	Isolated	CC1494-ND	2.22	1.85	1.56	CRNA25-1000
	400	25	1.1	Non-Isolated	CC1381-ND	1.78	1.49	1.25	CRNB25-400
	600	25	1.1	Non-Isolated	CC1382-ND	1.84	1.53	1.29	CRNB25-600
	800	25	1.1	Non-Isolated	CC1383-ND	1.89	1.58	1.33	CRNB25-800
	1000	25	1.1	Non-Isolated	CC1497-ND	2.00	1.67	1.40	CRNB25-1000

Mosfet

General Purpose

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
SOT-223	P-CH	-60	0.8	-1.17	-4.68	1.8	BSP315PINCT-ND	.73	.59	.44	BSP315PINTR-ND	1,000	259.00	BSP315P-E6327
SOT-23	P-CH	-60	8	-0.17	-0.68	0.36	BSS84PINCT-ND	.37	.26	.18	BSS84PINTR-ND	3,000	55.00/M	BSP84P-E6327
SOT-143	N-CH	12	—	0.3	—	200	BF998INCT-ND*	.47	.37	.27	BF998INTR-ND*	3,000	119.00/M	BF998E6327
SOT-223	N-CH	50	0.3	1.8	7.2	1.8	BSP295INCT-ND	.97	.78	.59	BSP295INTR-ND	1,000	335.27	BSP295E6327
TO-220AB	N-CH	50	0.12	15.5	62	50	BTS115AIN-ND	5.38	4.69	3.49	—	—	—	BTS115A
SOT-23	N-CH	60	3.5	0.23	0.88	0.36	BSS138NEINCT-ND	.50	.30	.20	BSS138NEINTR-ND	3,000	70.00/M	BSS138NE6327
SOT-23	N-CH	100	6	0.17	0.68	0.36	BSS119INCT-ND	.54	.44	.33	BSS119INTR-ND	3,000	162.90/M	BSS119E6327
SOT-223	N-CH	100	6	0.38	0.68	1.7	BSP123INCT-ND	.55	.44	.33	BSP123INTR-ND	1,000	178.65	BSP123E6327
SOT-223	N-CH	100	0.8	1	4	1.8	BSP296INCT-ND	.97	.78	.59	BSP296INTR-ND	1,000	335.27	BSP296E6327
SOT-23	N-CH	100	6	0.17	0.68	0.36	BSS123INCT-ND	.36	.25	.17	BSS123INTR-ND	3,000	54.00/M	BSS123E6327
TO-220AB	N-CH	100	0.1	22	88	95	BTS121AIN-ND	6.30	5.76	4.55	—	—	—	BTS121A
TO-220AB	N-CH	100	0.085	21	84	75	BUZ21IN-ND	1.15	1.05	.97	—	—	—	BUZ21
TO-220AB	N-CH	200	0.13	21	84	125	BUZ30AIN-ND	2.16	1.40	1.10	—	—	—	BUZ30A
TO-220AB	N-CH	200	0.4	7	28	40	BUZ73IN-ND	1.14	.72	.53	—	—	—	BUZ73
SOT-223	N-CH	240	20	0.2	0.6	1.7	BSP129INCT-ND	.91	.79	.61	BSP129INTR-ND	1,000	377.71	BSP129E6327
SOT-223	N-CH	240	8	0.32	1.28	1.7	BSP88INCT-ND	.75	.61	.46	BSP88INTR-ND	1,000	268.16	BSP88E6327
SOT-23	N-CH	240	16	0.1	0.4	0.36	BSS131INCT-ND	.46	.36	.26	BSS131INTR-ND	3,000	109.12/M	BSS131E6327
SOT-89	N-CH	240	6	0.29	1.16	1	BSS87INCT-ND	.88	.71	.53	BSS87INTR-ND	1,000	311.84	BSS87E6327
TO-220AB	N-CH	800	3	3.6	14.5	100	BUZ80AIN-ND	4.21	2.91	2.37	—	—	—	BUZ80A

* Dual

Cool MOS™ Power

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
TO-220AB	P-CH	-60	0.3	-8.8	-35.2	42	SPP08P06PIN-ND	1.08	.68	.50	—	—	—	SPP08P06P
	P-CH	-60	0.13	-18.6	-74.4	80	SPP18P06PIN-ND	1.54	1.00	.73	—	—	—	SPP18P06P
	N-CH	560	0.95	4.5	13.5	50	SPP04N50C3IN-ND	1.43	1.25	.96	—	—	—	SPP04N50C3
	N-CH	560	0.6	7.6	22.8	83	SPP08N50C3IN-ND	2.04	1.35	1.04	—	—	—	SPP08N50C3
	N-CH	560	0.38	11.6	34.8	125	SPP12N50C3IN-ND	2.25	1.88	1.58	—	—	—	SPP12N50C3
	N-CH	560	0.28	16	48	160	SPP16N50C3IN-ND	2.88	2.41	2.02	—	—	—	SPP16N50C3
	N-CH	560	0.19	21	63	208	SPP21N50C3IN-ND	3.41	2.97	2.22	—	—	—	SPP21N50C3
TO-220FP	N-CH	560	0.95	4.5	13.5	31	SPA04N50C3IN-ND	1.68	1.46	1.12	—	—	—	SPA04N50C3
	N-CH	560	0.6	7.6	22.8	32	SPA08N50C3IN-ND	1.91	1.60	1.34	—	—	—	SPA08N50C3
	N-CH	560	0.38	11.6	34.8	33	SPA12N50C3IN-ND	2.46	2.06	1.73	—	—	—	SPA12N50C3
	N-CH	560	0.28	16	48	34	SPA16N50C3IN-ND	2.99	2.49	2.10	—	—	—	SPA16N50C3
	N-CH	560	0.19	21	63	34.5	SPA21N50C3IN-ND	3.55	3.10	2.31	—	—	—	SPA21N50C3
D-PAK	N-CH	560	3	1.8	5.4	25	SPD02N50C3INCT-ND	.99	.86	.66	SPD02N50C3INTR-ND	2,500	367.00/M	SPD02N50C3
	N-CH	560	1.4	3.2	9.6	38	SPD03N50C3INCT-ND	1.17	1.02	.78	SPD03N50C3INTR-ND	2,500	451.00/M	SPD03N50C3
	N-CH	560	0.95	4.5	13.5	50	SPD04N50C3INCT-ND	1.38	1.20	.92	SPD04N50C3INTR-ND	2,500	539.00/M	SPD04N50C3
	N-CH	560	0.6	7.6	22.8	83	SPD08N50C3INCT-ND	1.85	1.61	1.24	SPD08N50C3INTR-ND	2,500	691.00/M	SPD08N50C3
TO-247	N-CH	560	0.38	11.6	34.8	125	SPW12N50C3IN-ND	2.99	2.49	2.10	—	—	—	SPW12N50C3
	N-CH	560	0.28	16	48	160	SPW16N50C3IN-ND	3.27	2.85	2.12	—	—	—	SPW16N50C3
	N-CH	560	0.19	21	63	208	SPW21N50C3IN-ND	4.22	3.68	2.74	—	—	—	SPW21N50C3
TO-220AB	N-CH	650	3	1.8	5.4	25	SPP02N60C3IN-ND	1.12	.70	.52	—	—	—	SPP02N60C3
	N-CH	650	1.4	3.2	9.6	38	SPP03N60C3IN-ND	1.59	1.00	.74	—	—	—	SPP03N60C3
	N-CH	650	1.4	3.2	5.7	38	SPP03N60S5IN-ND	1.36	.85	.63	—	—	—	SPP03N60S5
	N-CH	650	0.95	4.5	13.5	50	SPP04N60C3IN-ND	1.68	1.46	1.12	—	—	—	SPP04N60C3
	N-CH	650	0.6	7.3	21.9	83	SPP07N60C3IN-ND	1.96	1.64	1.38	—	—	—	SPP07N60C3
	N-CH	650	0.6	7.3	14.6	83	SPP07N60S5IN-ND	2.15	1.44	1.13	—	—	—	SPP07N60S5
	N-CH	650	0.38	11	33	125	SPP11N60C3IN-ND	2.71	2.26	1.90	—	—	—	SPP11N60C3
	N-CH	650	0.38	11	22	125	SPP11N60S5IN-ND	2.80	1.90	1.49	—	—	—	SPP11N60S5
	N-CH	650	0.19	20.7	62.1	208	SPP20N60C3IN-ND	3.98	3.47	2.58	—	—	—	SPP20N60C3
	N-CH	650	0.19	20	40	208	SPP20N60S5IN-ND	4.56	3.12	2.48	—	—	—	SPP20N60S5
D2-PAK	N-CH	650	3	1.8	5.4	25	SPB02N60C3INCT-ND	1.05	.91	.70	SPB02N60C3INTR-ND	1,000	472.00	SPB02N60C3
	N-CH	650	1.4	3.2	9.6	38	SPB03N60C3INCT-ND	1.27	1.11	.85	SPB03N60C3INTR-ND	1,000	520.00	SPB03N60C3
	N-CH	650	0.95	4.5	13.5	50	SPB04N60C3INCT-ND	1.68	1.46	1.12	SPB04N60C3INTR-ND	1,000	685.00	SPB04N60C3
	N-CH	650	0.6	7.3	21.9	83	SPB07N60C3INCT-ND	1.96	1.64	1.38	SPB07N60C3INTR-ND	1,000	958.00	SPB07N60C3
	N-CH	650	0.38	11	33	125	SPB11N60C3INCT-ND	2.71	2.26	1.90	SPB11N60C3INTR-ND	1,000	1285.00	SPB11N60C3
TO-220FP	N-CH	650	0.95	4.5	13.5	31	SPA04N60C3IN-ND	1.79	1.56	1.20	—	—	—	SPA04N60C3
	N-CH	650	0.38	11	33	33	SPA11N60C3IN-ND	2.86	2.38	2.00	—	—	—	SPA11N60C3
	N-CH	650	0.19	20.7	62.1	34.5	SPA20N60C3IN-ND	4.08	3.56	2.65	—	—	—	SPA20N60C3
D-PAK	N-CH	650	3	1.8	5.4	25	SPD02N60C3INCT-ND	1.05	.91	.70	—	—	—	SPD02N60C3
	N-CH	650	1.4	3.2	9.6	38	SPD03N60C3INCT-ND	1.22	1.06	.82	SPD03N60C3INTR-ND	2,500	475.00/M	SPD03N60C3
	N-CH	650	0.95	4.5	13.5	50	SPD04N60C3INCT-ND	1.49	1.30	1.00	SPD04N60C3INTR-ND	2,500	583.00/M	SPD04N60C3
	N-CH	650	0.6	7.3	21.9	83	SPD07N60C3INCT-ND	1.70	1.42	1.19	SPD07N60C3INTR-ND	2,500	793.00/M	SPD07N60C3
	N-CH	650	0.6	7.3	14.6	83	SPD07N60S5INCT-ND	1.70	1.42	1.19	SPD07N60S5INTR-ND	2,500	793.00/M	SPD07N60S5
TO-247	N-CH	650	0.19	20.7	62.1	208	SPW20N60C3IN-ND	5.75	3.94	3.14	—	—	—	SPW20N60C3
	N-CH	650	0.19	20	40	208	SPW20N60S5IN-ND	5.75	3.94	3.14	—	—	—	SPW20N60S5
	N-CH	650	0.07	47	141	415	SPW47N60C3IN-ND	10.35	9.58	7.25	—	—	—	SPW47N60C3
TO-220AB	N-CH	800	2.7	2	6	42	SPP02N80C3IN-ND	1.70	1.48	1.14	—	—	—	SPP02N80C3
	N-CH	800	1.3	4	12	63	SPP04N80C3IN-ND	1.88	1.57	1.32	—	—	—	SPP04N80C3
	N-CH	800	0.9	6	18	83	SPP06N80C3IN-ND	2.56	2.13	1.79	—	—	—	SPP06N80C3
	N-CH	800	0.65	8	24	104	SPP08N80C3IN-ND	2.63	2.20	1.85	—	—	—	SPP08N80C3
	N-CH	800	0.45	11	33	156	SPP11N80C3IN-ND	3.36	2.93	2.19	—	—	—	SPP11N80C3
	N-CH	800	0.29	17	51	208	SPP17N80C3IN-ND	4.78	4.16	3.10	—	—	—	SPP17N80C3
D2-PAK	N-CH	800	0.29	17	51	208	SPB17N80C3INCT-ND	4.78	4.16	3.54	SPB17N80C3INTR-ND	1,000	2478.00	SPB17N80C3
TO-247	N-CH	800	0.45	11	33	156	SPW11N80C3IN-ND	4.21	3.67	2.73	—	—	—	SPW11N80C3
	N-CH	800	0.29	17	51	208	SPW17N80C3IN-ND	6.27	5.46	4.07	—	—	—	SPW17N80C3
TO-220FP	N-CH	800	1.3	4	12	38	SPA04N80C3IN-ND	2.00	1.68	1.41	—	—	—	SPA04N80C3
	N-CH	800	0.9	6	18	39	SPA06N80C3IN-ND	2.50	2.09	1.76	—	—	—	SPA06N80C3
	N-CH	800	0.65	8	24	40	SPA08N80C3IN-ND	2.82	2.35	1.98	—	—	—	SPA08N80C3
	N-CH	800	0.45	11	33	41	SPA11N80C3IN-ND	3.38	2.94	2.19	—	—	—	SPA11N80C3
	N-CH	800	0.29	17	51	42	SPA17N80C3IN-ND	5.00	4.36	3.25	—	—	—	SPA17N80C3
D-PAK	N-CH	800	0.9	6	18	83	SPD06N80C3INCT-ND	2.23	1.86	1.56	SPD06N80C3INTR-ND	2,500	1045.00/M	SPD06N80C3

OptiMOS™ 2

Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
TO-220AB	N-CH	25	2.7	80	385	150	IPP03N03LAIN-ND	2.29	1.91	1.61	—	—	—	IPP03N03LA
	N-CH	25	3.9	80	385	107	IPP04N03LAIN-ND	1.86	1.61	1.24	—	—	—	IPP04N03LA
	N-CH	25	4.6	80	385	94	IPP05N03LAIN-ND	1.71	.95	.78	—	—	—	IPP05N03LA
	N-CH	25	5.9	50	350	83	IPP06N03LAIN-ND	1.38	.88	.66	—	—	—	IPP06N03LA
	N-CH	25	8.9	50	350	63	IPP09N03LAIN-ND	1.04	.64	.47	—	—	—	IPP09N03LA
	N-CH	25	13.6	30	210	46	IPP14N03LAIN-ND	.97	.78	.59	—	—	—	IPP14N03LA
TO-220	N-CH	600	299	11	34	96	IPP60R299CPIN-NDΔ ***NEW!***	3.16	1.95	1.72	—	—	—	IPP60R299CP
	N-CH	600	99	31	93	255	IPP60R099CSIN-NDΔ ***NEW!***	7.37	5.02	4.52	—	—	—	IPP60R099CS
D2-PAK	N-CH	25	3.9	80	385	107	IPB04N03LAINCT-ND	1.44	1.20	1.01	IPB04N03LAINTR-ND	1,000	719.70	IPB04N03LA
	N-CH	25	4.6	80	385	94	IPB05N03LAINCT-ND	1.56	1.36	1.05	IPB05N03LAINTR-ND	1,000	638.00	IPB05N03LA

Δ ***RoHS Compliant***

SOT-223

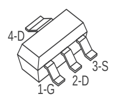

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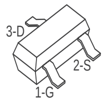

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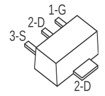

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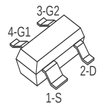

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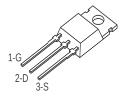

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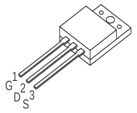

D-PAK / D2-PAK

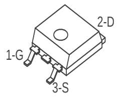

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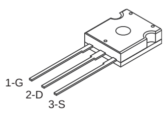

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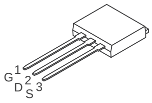

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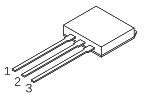

(Continued)

OptiMOS™ 2 *(Cont.)*

Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
D2-PAK	N-CH	25	5.9	50	350	83	IPB06N03LAINCT-ND	1.56	1.36	1.05	IPB06N03LAINTR-ND	1,000	638.00	IPB06N03LA
	N-CH	25	8.9	50	350	63	IPB09N03LAINCT-ND	1.10	.96	.74	—	—	—	IPB09N03LA
	N-CH	25	13.6	30	210	46	IPB14N03LAINCT-ND	.97	.78	.59	—	—	—	IPB14N03LA
	N-CH	55	2.7	100	400	300	IPB100N06S3L-03INCT-NDΔ ***NEW!***	3.50	2.18	1.97	IPB100N06S3L-03INTR-NDΔ ***NEW!***	1,000	1689.00	IPB100N06S3L-03
TO-262AB	N-CH	25	3.9	80	385	107	IPI04N03LAIN-ND	1.73	1.11	.84	—	—	—	IPI04N03LA
D-PAK	N-CH	25	3.8	50	350	115	IPD04N03LAGINCT-ND	1.42	1.19	1.00	IPD04N03LAGINTR-ND	2,500	945.00/M	IPD04N03LAG
	N-CH	25	3.8	50	350	115	IPDH4N03LAGINCT-NDΔ ***NEW!***	1.64	.91	.80	IPDH4N03LAGINTR-NDΔ ***NEW!***	2,500	637.00/M	IPDH4N03LAG
	N-CH	25	5.1	50	350	94	IPD05N03LAGINCT-ND	1.70	1.48	1.14	—	—	—	IPD05N03LAG
	N-CH	25	5.1	50	350	94	IPD5N03LAGINCT-NDΔ ***NEW!***	1.43	.79	.68	IPD5N03LAGINTR-NDΔ ***NEW!***	2,500	535.00/M	IPD5N03LAG
	N-CH	25	5.7	50	350	83	IPD06N03LAGINCT-ND	1.26	1.10	.85	IPD06N03LAGINTR-ND	2,500	583.00/M	IPD06N03LAG
	N-CH	25	6.0	50	350	71	IPDH6N03LAGINCT-NDΔ ***NEW!***	1.27	.69	.59	IPDH6N03LAGINTR-NDΔ ***NEW!***	2,500	463.00/M	IPDH9N03LAG
	N-CH	25	13	30	210	46	IPD13N03LAGINCT-ND	.88	.71	.53	IPD13N03LAGINTR-ND	2,500	299.00/M	IPD13N03LAG
TO-251AB	N-CH	25	5.9	30	210	94	IPU06N03LAGIN-ND	1.40	.87	.64	—	—	—	IPU06N03LAG
	N-CH	25	6.5	30	210	83	IPU07N03LAIN-ND	1.35	.86	.58	—	—	—	IPU07N03LA
	N-CH	25	9.3	30	210	63	IPU09N03LAGIN-ND	1.11	.69	.50	—	—	—	IPU09N03LAG
	N-CH	25	12.8	30	210	47	IPU13N03LAGIN-ND	1.02	.60	.41	—	—	—	IPU13N03LA G
D-PAK Bent up Leads	N-CH	25	5.4	50	350	94	IPF05N03LAGINCT-ND	1.50	1.30	1.00	IPF05N03LAGINTR-ND	2,500	727.00/M	IPF06N03LAG
	N-CH	25	13.3	30	210	46	IPF13N03LAGINCT-ND	.94	.82	.63	IPF13N03LAGINTR-ND	2,500	373.00/M	IPF13N03LAG
SUPERSO8	N-CH	30	2.2	50	200	104	BSC022N03SGINCT-NDΔ ***NEW!***	2.16	1.24	1.10	BSC022N03SGINTR-NDΔ ***NEW!***	5,000	842.00/M	BSC022N03SG
	N-CH	30	3.2	50	200	78	BSC032N03SGINCT-NDΔ ***NEW!***	1.73	.96	.85	BSC032N03SGINTR-NDΔ ***NEW!***	5,000	660.00/M	BSC032N03SG
	N-CH	30	7.9	40	160	60	BSC079N03SGINCT-NDΔ ***NEW!***	1.20	.66	.56	BSC079N03SGINTR-NDΔ ***NEW!***	5,000	419.00/M	BSC079N03SG

Δ ***RoHS Compliant***

SIPMOS™

Package	Type	Vds (V)	RDS (on) Ω	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Infineon Part No.
D-PAK	P-CH	-60	0.075	-30	-120	125	SPD30P06PINCT-ND	1.69	1.41	1.19	SPD30P06PINTR-ND	2,500	790.00/M	SPD30P06
		-60	0.25	-9.7	-38.8	42	SPD09P06PLINCT-ND	.95	.83	.64	SPD09P06PLINTR-ND	2,500	367.00/M	SPD09P06PL
SOT-223	P-CH	-60	0.3	-1.9	-7.6	1.8	BSP170PE6327INCT-ND	.85	.69	.52	BSP170PE6327INTR-ND	1,000	303.36	BSP170PE6327
		-60	0.3	-1.9	-7.6	1.8	BSP171PE6327INCT-ND	1.00	.80	.61	BSP171PE6327INTR-ND	1,000	345.00	BSP171PE6327
		-100	1.8	-0.68	-2.72	1.8	BS P316PE6327INCT-ND	.78	.63	.47	BSP316PE6327INTR-ND	1,000	278.00	BSP316PE6327
		-250	4	-0.43	-1.72	1.8	BSP317PE6327INCT-ND	.97	.85	.65	BSP317PE6327INTR-ND	1,000	396.00	BSP317PE6327
TO-251AB	P-CH	-60	0.25	-9.7	-38.8	42	SPU09P06PLIN-ND	1.15	.74	.54	—	—	—	SPU09P06PL
		-60	0.3	-8.8	-35.2	42	SPU08P06PIN-ND	1.12	.97	.75	—	—	—	SPU08P06P
TO-220AB	P-CH	-60	0.023	-80	-320	340	SPP80P06PIN-ND	3.96	2.74	2.23	—	—	—	SPP80P06P
		-100	0.24	-15	-60	128	SPP15P10PIN-ND	2.16	1.40	1.11	—	—	—	SPP15P10P
SOT-23	P-CH	-60	2	-0.33	-1.32	0.36	BSS83PE6327INCT-ND	.47	.33	.23	BSS83PE6327INTR-ND	3,000	70.00/M	BSS83PE6327
SOT-89	P-CH	-250	12	-0.19	-0.76	1	BSS192PE6327INCT-ND	.78	.63	.47	BSS192PE6327INTR-ND	1,000	276.00	BSS192PE6327
D-PAK	N-CH	100	.044	35	140	150	SPD35N10INCT-ND	1.41	1.23	.95	SPD35N10INTR-ND	2,500	537.37/M	SPD35N10
		100	.17	10.5	41.2	50	SPD11N10INCT-ND	.89	.72	.54	—	—	—	SPD11N10
D2-PAK	N-CH	100	.044	35	140	150	SPB35N10INCT-ND	1.65	1.43	1.10	SPB35N10INTR-ND	1,000	659.85	SPB35N10
		100	.08	21	84	90	SPB21N10INCT-ND	1.48	1.29	.99	SPB21N10INTR-ND	1,000	592.50	SPB21N10
TO-220AB	N-CH	100	.044	35	140	150	SPP35N10IN-ND	1.58	1.02	.77	—	—	—	SPP35N10
		100	.08	21	84	90	SPP21N10IN-ND	1.46	.95	.72	—	—	—	SPP21N10
SO-8	N-CH	60	0.12	3.1	12.4	2	BSO615NVINCT-ND	.94	.82	.63	—	—	—	BSO615NV
		60	0.15	2.6	10.4	2	BSO615NINCT-ND*	1.11	.96	.74	BSO615NINTR-ND*	2,500	427.61/M	BSO615N
	P/N-CH	-30/30	0.25/0.11	-2.3/3.4	-7.2/11.6	2/2	BSO315CINCT-ND	.98	.85	.65	BSO315CINTR-ND*	2,500	473.00/M	BSO315C
		-60/60	0.3/0.12	-2/3	-8/12	2/2	BSO612CVINCT-ND*	1.19	1.04	.80	BSO612CVINTR-ND*	2,500	453.30/M	BSO612CV
		-60/60	0.3/0.11	-2/3.1	-8/12.4	2/2	BSO615CINCT-ND*	1.18	1.03	.79	BSO615CINTR-ND*	2,500	449.00/M	BSO615C

* Dual

OptiMOS™

Package	Type	Vds (V)	RDS (on) mΩ	ID (A)	ID Pulse (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Infineon Part No.
SOT-323	P-CH	-20	1.2	-0.39	-1.56	0.25	BSS223PWINCT-ND	.45	.33	.24	BSS223PWINTR-ND	3,000	95.00/M	BSS223PW
	P-CH	-20	550	-0.58	-2.3	0.52	BSS209PWINCT-ND	.43	.33	.24	BSS209PWINTR-ND	3,000	105.12/M	BSS209PW
SOT-363	P-CH	-20	175	-1.5	-6	0.56	BSV236SPINCT-ND	.47	.38	.29	BSV236SPINTR-ND	10,000	134.24/M	BSV236SP
	P-CH	-20	1,200	-0.39	-1.56	0.25	BSD223PINCT-ND*	.41	.32	.23	BSD223PINTR-ND*	10,000	90.92/M	BSD223P
SO-8	P-CH	-20	8	-14.9	-59.6	2.5	BSO201SPINCT-ND	1.59	1.33	1.12	BSO201SPINTR-ND	2,500	742.70/M	BSO201SP
	P-CH	-20	21	-8.2	-32.8	2	BSO203PINCT-ND	1.84	1.60	1.23	BSO203PINTR-ND	2,500	687.40/M	BSO203P
	P-CH	-20	21	-9	-36	2.35	BSO203SPINCT-ND	1.22	1.06	.82	BSO203SPINTR-ND	2,500	462.28/M	BSO203SP
	P-CH	-20	30	-7	-28	2	BSO204PINCT-ND*	1.53	1.33	1.02	BSO204PINTR-ND*	2,500	569.80/M	BSO204P
	P-CH	-20	45	-5.7	-22.8	2	BSO207PINCT-ND*	1.25	1.09	.84	BSO207PINTR-ND*	2,500	476.52/M	BSO207P
	P-CH	-20	67	-4.7	-18.8	2	BSO211PINCT-ND*	1.00	.87	.67	—	—	—	BSO211P
TSOP-6	P-CH	-20	67	-4.7	-18.8	2	BSL211SPINCT-ND	.66	.54	.40	BSL211SPINTR-ND	3,000	199.35/M	BSL211SP
	P-CH	-20	41	-6	-24	2	BSL207SPINCT-ND	.71	.58	.43	BSL207SPINTR-ND	3,000	238.20/M	BSL207SP
SO-8	P-CH	-30	8	-14.9	-59.6	2.5	BSO301SPINCT-ND	1.59	1.33	1.12	BSO301SPINTR-ND	2,500	742.70/M	BSO301SP
	P-CH	-30	21	-8.9	-35.6	2.35	BSO303SPINCT-ND	1.22	1.06	.82	BSO303SPINTR-ND	2,500	462.28/M	BSO303SP
TSOP-6	P-CH	-30	43	-5.5	-22	2	BSL307SPINCT-ND	.71	.58	.43	—	—	—	BSL307SP
D-PAK	N-CH	30	4.2	100	400	150	SPD100N03S2L-INCT-ND	2.08	1.74	1.46	SPD100N03S2L-INTR-ND	2,500	971.88/M	SPD100N03S2L-04
	N-CH	30	6.4	50	200	136	SPD50N03S2L06INCT-ND	1.63	1.42	1.09	SPD50N03S2L06INTR-ND	2,500	609.56/M	SPD50N03S2L-06
	N-CH	30	6.7	30	120	136	SPD30N03S2L07INCT-ND	1.34	1.17	.90	SPD30N03S2L07INTR-ND	2,500	606.00/M	SPD30N03S2L-07
	N-CH	30	20	30	120	60	SPD30N03S2L20INCT-ND	.96	.77	.58	SPD30N03S2L20INTR-ND	2,500	309.44/M	SPD30N03S2L-20
	N-CH	30	10	30	120	100	SPD30N03S2L10INCT-ND	1.08	.94	.72	SPD30N03S2L10INTR-ND	2,500	421.00/M	SPD30N03S2L-10
D2-PAK	N-CH	30	5.2	80	320	167	SPB80N03S2L05INCT-ND	1.55	1.30	1.09	SPB80N03S2L05INTR-ND	1,000	751.54	SPB80N03S2L-05
	N-CH	30	5.9	80	320	150	SPB80N03S2L06INCT-ND	1.62	1.40	1.08	SPB80N03S2L06INTR-ND	1,000	646.35	SPB80N03S2L-06
	N-CH	30	5.9	80	320	150	SPP80N03S2L-06IN-ND	1.41	.91	.68	—	—	—	SPP80N03S2L-06
	N-CH	30	12.9	42	248	83	SPB42N03S2L13INCT-ND	.98	.85	.66	SPB42N03S2L13INTR-ND	1,000	411.00	SPB42N03S2L-13
TO-220AB	N-CH	30	2.7	100	400	300	SPP100N03S2L-03IN-ND	3.64	2.51	2.05	—	—	—	SPP100N03S2L-03
	N-CH	30	3	100	400	300	SPP100N03S2-03IN-ND	3.64	2.51	2.05	—	—	—	SPP100N03S2-03
	N-CH	30	5.2	80	320	167	SPP80N03S2L-05IN-ND	1.87	1.17	.91	—	—	—	SPP80N03S2L-05
	N-CH	30	8.4	73	320	107	SPP73N03S2L-08IN-ND	1.33	.84	.58	—	—	—	SPP73N03S2L-08
	N-CH	30	12.9	42	248	83	SPP42N03S2L-13IN-ND	1.04	.66	.50	—	—	—	SPP42N03S2L-13
SO-8	N-CH	30	7.8	13	52	2.5	BSO4420INCT-ND	1.12	.98	.75	BSO4420INTR-ND	2,500	427.00/M	BSO4420
	N-CH	30	10	12.7	51	2.5	BSO4822INCT-ND	1.06	.85	.64	BSO4822INTR-ND	2,500	342.00/M	BSO4822
	N-CH	30	13	11.1	44.5	2.5	BSO4410INCT-ND	.95	.77	.58	BSO4410INTR-ND	2,500	307.00/M	BSO4410
	N-CH	30	20	8	32	2	BSO4804INCT-ND	1.02	.89	.69	BSO4804INTR-ND	2,500	388.00/M	BSO4804
TO-251AB	N-CH	30	10	30	120	82	SPU30N03S2L-10IN-ND	1.15	.72	.54	—	—	—	SPU30N03S2L-10
SOT-23	N-CH	55	650	0.54	2.2	0.36	BSS670S2LINCT-ND	.46	.32	.22	BSS670S2LINTR-ND	3,000	68.00/M	BSS670S2L

* Dual

IGBT'S

Package	Vce (V)	Vce (sat) max (V)	Ic @ 25°C (A)	Pulse Current Ic (A)	Ptot (W)	Digi-Key Part No.	Price Each 1	10	100	Infineon Part No.
TO-220AB	1200	3.2	32	64	200	BUP213IN-ND	2.46	2.25	2.08	BUP213
TO-218AB	1200	3.2	42	87	300	BUP314DIN-ND	6.64	6.09	5.62	BUP314D

D-PAK — Bent up Leads

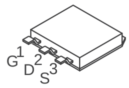

SOT-323

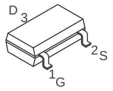

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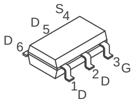

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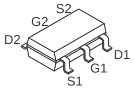

SUPERSO8 *NEW!*

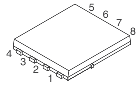

SO-8 Single

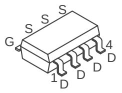

SO-8 Dual

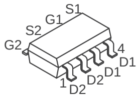

TSOP-6

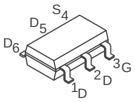

TO-218AB

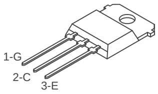

TOSHIBA Schottky Barrier Rectifiers and Switching Rectifier

Peak Reverse Voltage VRRM (V)	Average Forward Current IF (A)	Peak Surge Foward Current IFSM (A)	Peak Foward Voltage VFM (V)	Repetitive Peak Rev. Current (mA)	Junction Capacitance Cj (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
						M-Flat (3-4E1A) Package					
30	3.0	40	.37	5.0	190	CMS01QCT-ND◊***NEW!***	.48	.36	.27	CMS01QTR-ND◊***NEW!***	156.00/M
30	3.0	40	.40	0.5	170	CMS02CT-ND	.48	.36	.27	CMS02TR-ND	156.00/M
30	3.0	40	.40	0.5	170	CMS02QCT-ND◊***NEW!***	.48	.36	.27	CMS02QTR-ND◊***NEW!***	156.00/M
30	3.0	40	.45	0.5	190	CMS03QCT-ND◊***NEW!***	.48	.36	.27	CMS03QTR-ND◊***NEW!***	156.00/M
30	5.0	70	.37	8.0	330	CMS04CT-ND	.48	.36	.27	—	—
30	5.0	70	.37	8.0	330	CMS04QCT-ND◊***NEW!***	.48	.36	.27	CMS04QTR-ND◊***NEW!***	156.00/M
30	5.0	70	.45	0.8	330	CMS05CT-ND	.48	.36	.27	CMS05TR-ND	156.00/M
30	5.0	70	.45	0.8	330	CMS05QCT-ND◊***NEW!***	.48	.36	.27	CMS05QTR-ND◊***NEW!***	156.00/M
30	2.0	40	.37	3.0	130	CMS06CT-ND	.55	.44	.33	CMS06TR-ND	148.50/M
30	2.0	40	.37	3.0	130	CMS06QCT-ND◊***NEW!***	.55	.44	.33	CMS06QTR-ND◊***NEW!***	148.50/M
30	1.0	25	.37	1.5	70	CMS08CT-ND	.45	.36	.27	CMS08TR-ND	121.50/M
30	1.0	25	.37	1.5	70	CMS08QCT-ND◊***NEW!***	.45	.36	.27	CMS08QTR-ND◊***NEW!***	121.50/M
30	1.0	25	.45	0.5	70	CMS09CT-ND	.48	.36	.27	CMS09TR-ND	156.00/M
40	1.0	25	.55	0.5	50	CMS10CT-ND	.48	.36	.27	CMS10TR-ND	156.00/M
40	1.0	25	.55	0.5	50	CMS10QCT-ND◊***NEW!***	.48	.36	.27	CMS10QTR-ND◊***NEW!***	156.00/M
40	2.0	30	.55	0.5	95	CMS11CT-ND	.55	.44	.33	—	—
40	2.0	30	.55	0.5	95	CMS11QCT-ND◊***NEW!***	.55	.44	.33	CMS11QTR-ND◊***NEW!***	148.50/M
						S-Flat (3-2A1A) Package					
200	1.0	15	.98	0.01	—	CRH01CT-ND*†	.55	.44	.33	CRH01TR-ND*†	148.50/M
200	1.0	15	.98	0.01	—	CRH01QCT-ND*†◊***NEW!***	.55	.44	.33	CRH01QTR-ND*†◊***NEW!***	148.50/M
30	1.0	20	.37	1.5	40	CRS01CT-ND	.45	.36	.27	—	—
30	1.0	20	.37	1.5	40	CRS01QCT-ND◊***NEW!***	.45	.36	.27	CRS01QTR-ND◊***NEW!***	121.50/M
30	1.0	20	.40	0.05	40	CRS02CT-ND	.46	.37	.26	CRS02TR-ND	119.00/M
30	1.0	20	.40	0.05	40	CRS02QCT-ND◊***NEW!***	.46	.37	.26	CRS02QTR-ND◊***NEW!***	119.00/M
30	1.0	20	.45	0.1	40	CRS03CT-ND	.46	.37	.26	CRS03TR-ND	119.00/M
30	1.0	20	.45	0.1	40	CRS03QCT-ND◊***NEW!***	.46	.37	.26	CRS03QTR-ND◊***NEW!***	119.00/M
40	1.0	20	.49	0.1	47	CRS04CT-ND	.46	.37	.26	—	—
40	1.0	20	.49	0.1	47	CRS04QCT-ND◊***NEW!***	.46	.37	.26	CRS04QTR-ND◊***NEW!***	119.00/M
30	1.0	30	.45	0.2	60	CRS05CT-ND	.40	.32	.24	—	—
30	1.0	30	.45	0.2	60	CRS05QCT-ND◊***NEW!***	.40	.32	.24	CRS05QTR-ND◊***NEW!***	108.00/M
20	1.0	20	.36	1.0	60	CRS06CT-ND	.40	.32	.24	CRS06TR-ND	108.00/M
20	1.0	20	.36	1.0	60	CRS06QCT-ND◊***NEW!***	.40	.32	.24	CRS06TR-ND◊***NEW!***	108.00/M
30	1.5	30	.36	1.0	90	CRS08CT-ND	.40	.32	.24	CRS08TR-ND	108.00/M
30	1.5	30	.36	1.0	90	CRS08QCT-ND◊***NEW!***	.40	.32	.24	CRS08TR-ND◊***NEW!***	108.00/M
30	1.5	30	.46	0.05	90	CRS09QCT-ND◊***NEW!***	.40	.32	.24	CRS09QTR-ND◊***NEW!***	108.00/M
30	1.0	20	.36	1.5	60	CRS11CT-ND	.55	.44	.33	—	—
30	1.0	20	.36	1.5	60	CRS11QCT-ND◊***NEW!***	.55	.44	.33	CRS11QTR-ND◊***NEW!***	148.50/M

* Reverse Recovery Time — Trr 35ns † Switching type ◊ ***RoHS Compliant***

M-Flat Pkg. (3-4E1A)

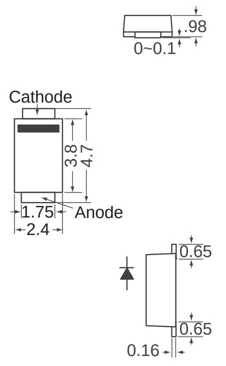

S-Flat Pkg. (3-2A1A)

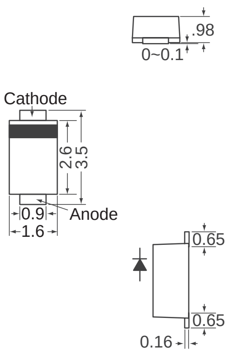

Bipolar Transistors

Type	Collector-Emitter Voltage VCEO (V)	Collector Power IC (A)	Collector Power Dissipation PC (W)	Digi-Key Part No.	Price Each 1	10	100
				TO-220 (NIS) Package			
PNP	-230	-1	20	2SA1837-ND	.72	.54	.41
NPN	230	1	20	2SC4793-ND	.72	.54	.41
NPN	230	1	20	2SC4793Q-ND◊***NEW!***	.72	.54	.41
				TO-3P(N) Package			
PNP	-230	-15	130	2SA1962-O-ND	2.48	1.98	1.54
PNP	-230	-15	130	2SA1962-OQ-ND◊***NEW!***	2.48	1.98	1.54
NPN	230	15	130	2SC5242-O-ND	2.48	1.98	1.54
NPN	230	15	130	2SC5242-OQ-ND◊***NEW!***	2.48	1.98	1.54
				TO-3P(L) Package			
PNP	-200	-15	150	2SA1302-O-ND	2.48	1.98	1.54
PNP	-230	-15	150	2SA1943-OQ-ND◊***NEW!***	2.25	1.80	1.40
NPN	230	15	150	2SC5200-OQ-ND◊***NEW!***	2.25	1.80	1.40
				NEW! S-MINI Package NEW!			
NPN	50	150ma	150	2SC2712-GRCT-ND◊	.30	.23	.16
		150ma	150	2SC2712-GRTR-ND◊	180.00/3,000		
		150ma	150	2SC2712-YCT-ND◊	.14	.11	.08
		150ma	150	2SC2712-YTR-ND◊	84.60/3,000		
PNP	50	-150ma	150	2SA1162-GRCT-ND◊	.30	.23	.16
		-150ma	150	2SA1162-GRTR-ND◊	180.00/3,000		
		-150ma	150	2SA1162-YCT-ND◊	.30	.23	.16
		-150ma	150	2SA1162-YTR-ND◊	180.00/3,000		

◊ ***RoHS Compliant***

TO-220 (NIS) Pkg. (2-10R1A)

1. Base
2. Collector
3. Emitter

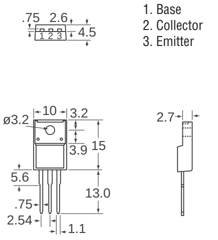

TO-3P(N) Pkg. (2-16C1A)

1. Base
2. Collector (Heat Sink)
3. Emitter

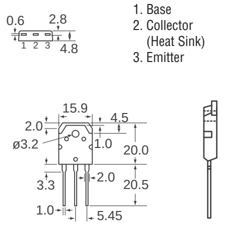

TO-3P(L) Pkg. (2-21F1A)

1. Base
2. Collector (Heat Sink)
3. Emitter

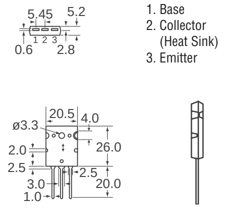

S-MINI Pkg. *NEW!*

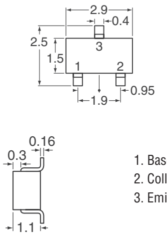

1. Base
2. Collector
3. Emitter

TOSHIBA MOSFETs

Fig.	Package Type	RDS VDS (V)	ID Cont. (on) (Ω)	(A) 25°C	PD IDM (A)	Max (W)	Digi-Key Part No.	Price Each			Tape and Reel	
								1	10	100	Size	Pricing*
P-Channel Types												
1	TO-220FL (2-10S1B)	-100	0.15	-16	-64	60	2SJ412-ND	1.62	1.30	.97	—	—
2	2-7B2B	-60	0.16	-5	-20	20	2SJ377NQCT-ND◊ ***NEW!***	.75	.63	.50	2,000	332.50/M
12A	VS-6	-20	0.048	-4.5	-18	0.7	TPC6101CT-ND‡	.52	.39	.30	3,000	169.00/M
		-20	0.048	-4.5	-18	0.7	TPC6101FCT-ND‡◊ ***NEW!***	.52	.39	.30	3,000	169.00/M
	(2-3T1A)	-30	0.048	-4.5	-18	0.7	TPC6102CT-ND‡	.52	.39	.30	3,000	169.00/M
		-30	0.048	-4.5	-18	0.7	TPC6102FCT-ND‡◊ ***NEW!***	.52	.39	.30	3,000	169.00/M
3A	SOP-8 (2-6J1B)	-30	0.014	-10	-40	1.0	TPC8106-HQCT-ND‡◊ ***NEW!***	.96	.80	.64	3,000	416.00/M
		-30	0.014	-10	-40	1.0	TPC8109CT-ND‡	1.26	1.05	.84	3,000	546.00/M
		-30	0.014	-10	-40	1.0	TPC8109QCT-ND‡◊ ***NEW!***	1.26	1.05	.84	3,000	546.00/M
4	TSSOP-8	-20	0.016	-6	-24	1.5	TPCS8102CT-ND‡	.90	.75	.60	3,000	390.00/M
		-20	0.016	-6	-24	1.5	TPCS8102QCT-ND‡◊ ***NEW!***	.90	.75	.60	3,000	390.00/M
5	VS-8	-12	0.022	-6	-24	2.5	TPCF8101CT-ND‡	.76	.57	.43	4,000	247.00/M
5		-12	0.022	-6	-24	2.5	TPCF8101FCT-ND‡◊ ***NEW!***	.76	.57	.43	4,000	247.00/M
5		-20	0.024	-6	-24	2.5	TPCF8102CT-ND‡	.72	.54	.41	4,000	234.00/M
5		-20	0.024	-6	-24	2.5	TPCF8102FCT-ND‡◊ ***NEW!***	.72	.54	.41	4,000	234.00/M
5		-20	0.072	-2.7	-10.8	2.5	TPCF8103CT-ND‡	.64	.48	.36	4,000	208.00/M
5		-20	0.072	-2.7	-10.8	2.5	TPCF8103FCT-ND‡◊ ***NEW!***	.64	.48	.36	4,000	208.00/M
5		-30	0.026	-6	-24	2.5	TPCF8104CT-ND‡	.76	.57	.43	4,000	247.00/M
5		-30	0.026	-6	-24	2.5	TPCF8104FCT-ND‡◊ ***NEW!***	.76	.57	.43	4,000	247.00/M
6		-20	0.072	-2.7	-10.8	1.35	TPCF8B01CT-ND‡	.64	.48	.36	4,000	208.00/M
6		-20	0.072	-2.7	-10.8	1.35	TPCF8B01FCT-ND‡◊ ***NEW!***	.64	.48	.36	4,000	208.00/M
N-Channel Types												
2	2-7B2B	100	0.28	3	12	20	2SK2201TE16CT-ND‡	2.82	2.12	1.29	—	—
7	TO-220AB	100	0.066	27	108	75	2SK 2314-ND	1.49	1.20	.90	—	—
		400	0.40	10	40	80	2SK2841-ND	1.65	1.32	.99	—	—
		500	0.75	8	32	80	2SK2542-ND	1.45	1.16	.87	—	—
		500	1.35	5	20	58	2SK3758M-ND	1.35	1.13	.90	—	—
		600	0.9	6	24	74	2SK3761M-ND	1.38	1.10	.83	—	—
		600	1.7	3.5	14	60	2SK3760M-ND	1.47	1.23	.98	—	—
		900	3.7	3	9	69	2SK3763M-ND	1.48	1.18	.89	—	—
		900	5.6	2.5	7.5	62	2SK3762M-ND	1.35	1.08	.81	—	—
8	2-7B1B	50	0.032	20	50	40	2SK2614-ND	1.02	.82	.61	—	—
		60	0.12	5	20	20	2SK2231-ND	.60	.45	.34	—	—
		60	0.12	5	20	20	2SK2231Q-ND◊ ***NEW!***	.60	.45	.34	—	—
9	2-10R1B	60	0.013	45	180	45	2SK2312-ND	2.40	1.92	1.44	—	—
		60	0.036	25	100	35	2SK2232T-ND	1.26	1.05	.84	—	—
		900	3.7	3	9	40	2SK2700T-ND†	1.44	1.15	.87	—	—
10	2-16C1B	100	0.025	50	200	150	2SK1381-ND	5.01	4.52	4.01	—	—
		500	0.35	15	60	150	2SK2698T-ND	2.36	1.89	1.47	—	—
		500	0.75	10	40	125	2SK2601-ND	1.90	1.52	1.14	—	—
		900	1.05	10	30	150	2SK2968-ND	3.33	2.67	2.08	—	—
11	2-16F1B	600	0.31	15	60	90	2SK2953-ND	2.90	2.32	1.96	—	—
12A	VS-6	20	.022	6	24	0.7	TPC6001CT-ND‡	.52	.39	.30	—	—
12A		30	.025	6	24	0.7	TPC6002CT-ND‡	.52	.39	.30	—	—
12A		30	.025	6	24	0.7	TPC6002FCT-ND‡◊ ***NEW!***	.52	.39	.30	3,000	169.00/M
12B		30	.080	2.5	10	0.31	TPC6201CT-ND‡	.48	.36	.27	3,000	156.00/M
12B		30	.080	2.5	10	0.31	TPC6201FCT-ND‡◊ ***NEW!***	.48	.36	.27	3,000	156.00/M
6	VS-8	20	0.038	3	12	1.35	TPCF8A01CT-ND‡	.76	.57	.43	4,000	247.00/M
6		20	0.038	3	12	1.35	TPCF8A01FCT-ND‡◊ ***NEW!***	.76	.57	.43	4,000	247.00/M
13		30	0.019	7	28	2.5	TPCF8001CT-ND‡	.64	.48	.36	4,000	208.00/M
13		30	0.019	7	28	2.5	TPCF8001FCT-ND‡◊ ***NEW!***	.64	.48	.36	4,000	208.00/M
3A	SOP-8	30	0.005	15	60	1.0	TPC8013-HCT-ND‡	1.14	.95	.76	—	—
		30	0.008	13	52	1.0	TPC8009-HCT-ND‡	.81	.68	.54	3,000	351.00/M
		30	0.008	13	52	1.0	TPC8009-HQCT-ND‡◊ ***NEW!***	.81	.68	.54	3,000	351.00/M
		30	0.0035	18	72	1.9	TPC8018-HCT-ND‡	1.47	1.23	.98	3,000	637.00/M
		30	0.0035	18	72	1.9	TPC8018-HQCT-ND‡◊ ***NEW!***	1.47	1.23	.98	3,000	637.00/M
		30	0.0051	15	60	1.9	TPC8017-HCT-ND‡	1.20	1.00	.80	3,000	520.00/M
		30	0.0051	15	60	1.9	TPC8017-HQCT-ND‡◊ ***NEW!***	1.20	1.00	.80	3,000	520.00/M
		200	0.28	1.8	7.2	1.0	TPC8012-HCT-ND‡	1.20	1.00	.80	3,000	—
3B	SOP-8	20	0.016	6	24	0.45	TPC8207CT-ND‡	.84	.70	.56	3,000	364.00/M
		20	0.038	5	20	0.45	TPC8208CT-ND‡	.87	.73	.58	3,000	—
4	TO-220SIS	500	0.4	12	48	40	2SK3568Q-ND◊ ***NEW!***	1.88	1.50	1.13	—	—
		500	0.75	8	32	40	2SK3561-ND	1.38	1.10	.83	—	—
		500	0.75	8	32	40	2SK3561Q-ND◊ ***NEW!***	1.38	1.10	.83	—	—
		500	1.35	5	20	35	2SK3563-ND	.87	.73	.58	—	—
		500	1.35	5	20	35	2SK3563Q-ND◊ ***NEW!***	.87	.73	.58	—	—
		600	5	2	8	25	2SK3767Q-ND◊	.87	.73	.58	—	—
		600	0.54	10	40	45	2SK3569Q-ND◊ ***NEW!***	1.88	1.50	1.13	—	—
		600	0.74	7.5	30	45	2SK3667Q-ND◊	1.48	1.18	.89	—	—
		600	0.9	6	24	40	2SK3562Q-ND◊	1.33	1.06	.80	—	—
		600	1.7	3.5	14	35	2SK3567Q-ND◊	1.47	1.23	.98	—	—
		900	2.0	5	15	45	2SK3565-ND	1.73	1.38	1.04	—	—
		900	2.5	5	15	45	2SK3742-ND	1.73	1.38	1.04	—	—
		900	2.5	5	15	45	2SK3742Q-ND◊ ***NEW!***	1.73	1.38	1.04	—	—
		900	3.7	3	9	40	2SK3564-ND	1.20	1.00	.80	—	—
		900	3.7	3	9	40	2SK3564Q-ND◊ ***NEW!***	1.20	1.00	.80	—	—
		900	5.6	2.5	7.5	40	2SK3566-ND	1.35	1.13	.90	—	—
		900	5.6	2.5	7.5	40	2SK3566Q-ND◊ ***NEW!***	1.35	1.13	.90	—	—
14	SOPA-8	30	0.0035	40	120	45	TPCA8004-HCT-ND‡	1.48	1.18	.89	3,000	755.20/M
		30	0.0051	35	105	45	TPCA8003-HCT-ND‡	1.38	1.10	.83	3,000	704.00/M
13	SOPA-8	40	0.0105	30	90	45	TPCA8014HTE12LQCT-ND‡◊	1.48	1.18	.89	3,000	755.20/M
		40	0.0061	35	105	45	TPCA8015HTE12LQCT-ND‡◊	1.48	1.18	.89	3,000	755.20/M
		60	0.02	25	75	45	TPCA8016HTE12LQCT-ND‡◊	1.48	1.18	.89	3,000	755.20/M
		100	0.041	18	36	45	TPCA8006HTE12LQCT-ND‡◊	1.48	1.18	.89	3,000	755.20/M
		150	0.23	7	14	45	TPCA8009HTE12LQCT-ND‡◊	1.48	1.18	.89	3,000	755.20/M
		200	0.38	5.5	11	15	TPCA8010HTE12LQCT-ND‡◊	1.48	1.18	.89	3,000	755.20/M
15	8-TSSOPA	30	0.007	20	60	30	TPCM8001HTE12LQCT-ND‡◊	1.47	1.23	.98	3,000	637.00/M
17	S-MINI	60	3.3	.2	.8	.2	SSM3K7002FCT-ND‡◊ ***NEW!***	.30	.23	.16	3,000	60.00/M
Dual N-Channel Types												
3B	SOP-8	30/30	0.013	6/8.5	24/34	1.5	TPC8A01CT-ND	1.05	.88	.70	3,000	455.00/M
		30/30	0.013	6/8.5	24/34	1.5	TPC8A01QCT-ND‡◊ ***NEW!***	1.05	.88	.70	3,000	455.00/M
16	TSSOP-8	20	0.030	5	20	1.0	TPCS8205CT-ND‡	.84	.70	.56	3,000	364.00/M
5	VS-8	20	0.038	3	12	1.35	TPCF8201CT-ND‡	.76	.57	.43	4,000	247.00/M
		20	0.038	3	12	1.35	TPCF8201FCT-ND‡◊ ***NEW!***	.76	.57	.43	4,000	247.00/M
Dual P-Channel Types												
5	VS-8	-20	0.044	-3	-12	1.35	TPCF8302CT-ND‡	.76	.57	.43	4,000	247.00/M
		-20	0.044	-3	-12	1.35	TPCF8302FCT-ND‡◊ ***NEW!***	.76	.57	.43	4,000	247.00/M
		-20	0.058	-3	-12	1.35	TPCF8303CT-ND‡	.76	.57	.43	4,000	247.00/M
		-20	0.058	-3	-12	1.35	TPCF8303FCT-ND‡◊ ***NEW!***	.76	.57	.43	4,000	247.00/M
		-20	0.072	-2.7	-10.8	1.35	TPCF8301CT-ND‡	.76	.57	.43	4,000	247.00/M
		-20	0.072	-2.7	-10.8	1.35	TPCF8301FCT-ND‡◊ ***NEW!***	.76	.57	.43	4,000	247.00/M
Dual N- and P- Channel Types												
3B	SOP-8	30/-30	0.025/0.045	6/-4.5	24/-18	1.5	TPC8403CT-ND‡	.88	.66	.50	3,000	286.00/M
5	VS-8	30/-30	0.038/0.060	4/-3.2	16/-12.8	1.35	TPCF8402CT-ND‡	.92	.69	.52	4,000	299.00/M
	VS-8	30/-30	0.038/0.060	4/-3.2	16/-12.8	1.35	TPCF8402FCT-ND‡◊ ***NEW!***	.92	.69	.52	4,000	299.00/M

Fig. 1

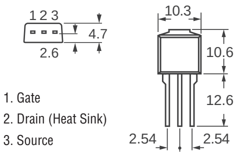

Fig. 2

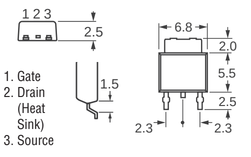

Fig. 3

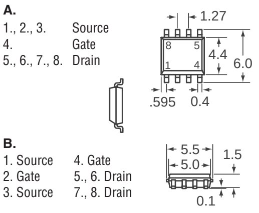

Fig. 4

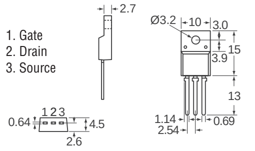

Fig. 5

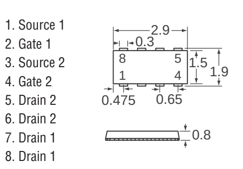

Fig. 6

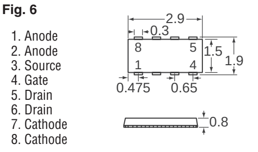

Fig. 7

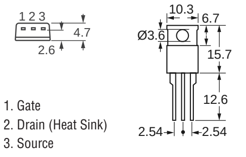

Fig. 8

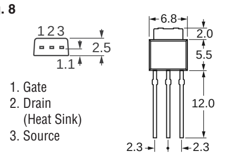

Fig. 9

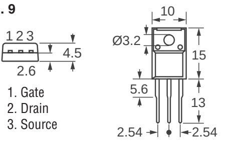

Fig. 10

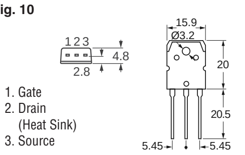

Fig. 11

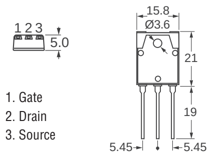

Fig. 12

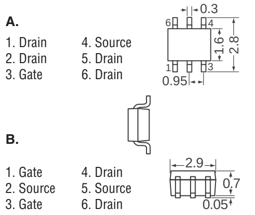

Fig. 13

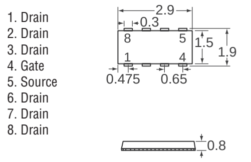

Fig. 14

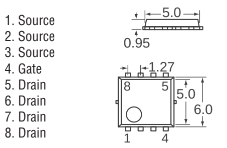

Fig. 15

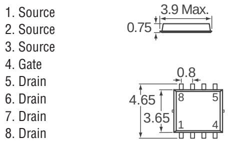

Fig. 16

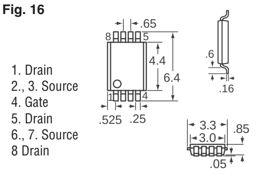

Fig. 17 *NEW!*

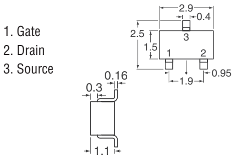

* For Tape and Reel part number, change CT-ND to TR-ND.
‡ Cut Tape Pricing † Isolated Tab ◊ *RoHS Compliant*

MOSFETs

RoHS Compliant Parts Available

Fig. 1 — TO-220

A.
1. Gate
2. Collector
3. Emitter

B.
1. Gate
2. Drain
3. Source

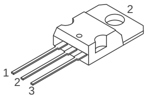

Fig. 2 — TO-247

A.
1. Gate
2. Collector
3. Emitter

B.
1. Gate
2. Drain
3. Source

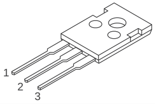

Fig. 3 — D^{2}PAK

A.
1. Gate
2. Collector
3. Emitter

B.
1. Gate
2. Drain
3. Source

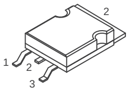

Fig. 4 — DPAK

A.
1. Gate
2. Collector
3. Emitter

B.
1. Gate
2. Drain
3. Source

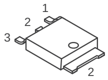

Fig. 5 — ISOTOP

A.
1. Source
2. Gate
3. Drain
4. Source

B.

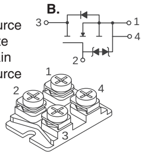

Fig. 6 — TO-220FP

A.
1. Gate
2. Collector
3. Emitter

B.
1. Gate
2. Drain
3. Source

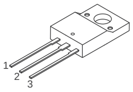

Fig. 7 — Max247™

1. Gate
2. Drain
3. Source

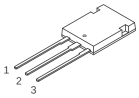

Fig. 8 — 8-SOIC

A.
1. Source
2. Gate
3. Source
4. Gate
5. Drain
6. Drain
7. Drain
8. Drain

B.
1. Source
2. Source
3. Source
4. Gate
5. Drain
6. Drain
7. Drain
8. Drain

C.
1. Anode
2. Anode
3. Source
4. Gate
5. Drain
6. Drain
7. Cathode
8. Cathode

D.
1. Gate
2. N/C
3. N/C
4. Source
5. Drain
6. Drain
7. Drain
8. Drain

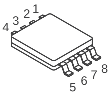

Fig. 9 — SOT23-3L

1. Gate
2. Drain
3. Source

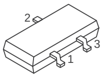

Fig. 10 — TO-92

1. Source
2. Gate
3. Drain

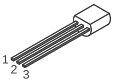

Fig. 11 — IPAK TO-251

1. Gate
2. Drain
3. Source

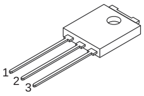

Fig. 12 — SOT23-6L

1. Drain
2. Drain
3. Gate
4. Source
5. Drain
6. Drain

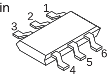

Fig. 13 — SOT-223

1. Gate
2. Drain
3. Source

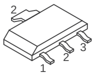

Fig. 14 — PowerSO-10

1. Ksource
2. Ksource
3. Gate
4. Ksource
5. Ksource
6. Source
7. Source
8. Source
9. Source
10. Source

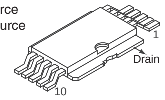

Fig. 15 — TSSOP-8

1. Drain
2. Source
3. Source
4. Gate
5. Gate
6. Source
7. Source
8. Drain

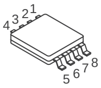

Fig. 16 — I^{2}PAK

1. Gate
2. Drain
3. Source

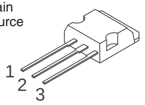

Fig. 17 — PowerFLAT™ (6 x 5)

1. Source
2. Source
3. Source
4. Gate
5. Drain
6. Drain
7. Drain
8. Drain

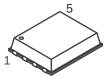

Fig. 18 — PowerFLAT™ (3.3 x 3.3)

1. Source
2. Source
3. Source
4. Gate
5. Drain
6. Drain
7. Drain
8. Drain

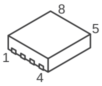

Fig. 19 — *NEW!* ClipPak™

1. Gate
2. Drain
3. Source

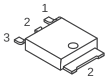

Fig.	VDSS (V)	I_D (A)	R_{DS}(on) (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel Pricing*	Mfg. Part No.
N-Channel									
TO-220									
1B	30	40	0.022	497-3187-5-ND‡	2.55	21.25	178.50	—	STP40NF03L
	30	80	0.0045	497-4386-5-ND‡	1.80	15.00	126.00	—	STP80NF03L
	30	80	0.004	497-2676-5-ND‡	2.97	25.85	192.50	—	STP80NF03L-04
	40	120	0.0037	497-3524-5-ND‡	3.78	32.90	245.00	—	STP200NF04
	40	120	0.0038	497-4819-5-ND‡ ***NEW!***	2.97	24.75	207.90	—	STP200NF04L
	55	80	0.0065	497-2774-5-ND‡	2.31	19.25	161.70	—	STP80NF55-06
	55	80	0.008	497-3202-5-ND‡	3.11	27.03	201.25	—	STP80NF55-08
	55	80	0.008	497-4370-5-ND‡	2.35	19.55	164.22	—	STP140NF55
	60	16	0.1	497-2766-5-ND‡	.86	6.84	47.50	—	STP16NF06
	60	16	0.09	497-2765-5-ND‡	.94	8.13	62.50	—	STP16NF06L
	60	20	0.07	497-4374-5-ND‡	1.12	9.72	74.75	—	STP20NF06
	60	20	0.07	497-4375-5-ND‡	1.12	9.72	74.75	—	STP20NF06L
	60	30	0.040	497-3186-5-ND‡	1.50	13.00	100.00	—	STP36NF06
	60	38	0.028	497-3189-5-ND‡	1.61	13.98	107.50	—	STP45NF06
	60	50	0.018	497-2777-5-ND‡	1.35	11.70	90.00	—	STP55NF06
	60	60	0.016	497-2779-5-ND‡	1.86	16.09	123.75	—	STP60NF06
	60	80	0.010	497-3201-5-ND‡	2.94	24.50	205.80	—	STP80NF06
	75	80	0.011	497-2788-5-ND‡	2.55	21.25	178.50	—	STP75NF75
	100	26	0.060	497-3185-5-ND‡	1.65	14.30	110.00	—	STP24NF10
	100	40	0.035	497-2645-5-ND‡	1.54	13.33	102.50	—	STP35NF10
	100	50	0.028	497-3188-5-ND‡	3.11	27.03	201.25	—	STP40NF10
	100	80	0.023	497-4384-5-ND‡	2.55	21.25	178.50	—	STP60NF10
	100	80	0.015	497-2642-5-ND‡	2.79	23.25	195.30	—	STP80NF10
	100	120	0.0105	497-4118-5-ND‡	2.88	24.00	201.60	—	STP120NF10
	120	40	0.032	497-4381-5-ND‡	1.73	14.38	120.75	—	STP40NF12
	200	6	0.8	497-3135-ND†	1.08	8.64	64.80	—	IRF620
	200	9	0.40	497-2757-5-ND‡	1.13	9.75	75.00	—	IRF630
	200	18	0.18	497-2759-5-ND‡	1.69	14.63	112.50	—	IRF640
	200	18	0.125	497-4373-5-ND‡	1.56	13.00	109.20	—	STP20N20
	200	19	0.18	497-2650-5-ND‡	1.80	15.00	126.00	—	STP19NB20
	200	40	0.045	497-4380-5-ND‡	2.93	24.45	205.38	—	STP40N20
	250	16	0.28	497-3183-5-ND‡	1.95	16.25	136.50	—	STP16NS25
	400	3	1.8	497-3194-5-ND‡	1.05	9.10	70.00	—	STP5NK40Z
	400	4.7	1.8	497-2675-5-ND‡	2.79	23.25	195.30	—	STP5NB40
	400	5.4	1	497-3200-5-ND‡	1.43	12.35	95.00	—	STP7NK40Z
	400	5.5	1	497-2736-5-ND‡	1.16	10.08	77.50	—	IRF730
	400	10	0.55	497-2931-5-ND‡	2.31	19.25	161.70	—	IRF740
	500	3	2.7	497-3190-5-ND‡	1.05	9.10	70.00	—	STP4NK50Z
	500	4.4	1.5	497-3195-5-ND‡	1.09	9.43	72.50	—	STP5NK50Z
	500	5.6	1.2	497-4385-5-ND‡	1.20	10.40	80.00	—	STP6NK50Z
	500	7.2	0.85	497-3203-5-ND‡	1.69	14.63	112.50	—	STP9NK50Z
	500	9	0.7	497-4671-5-ND‡ ***NEW!***	1.80	15.00	126.00	—	STP10NK50Z
	500	11	0.38	497-4818-5-ND‡ ***NEW!***	3.38	29.38	218.75	—	STP12NM50N
	500	12	0.35	497-2666-5-ND‡	4.73	41.13	306.25	—	STP12NM50
	500	14	0.38	497-4526-5-ND‡	3.24	28.20	210.00	—	STP14NK50Z
	500	18	0.19	497-4820-5-ND‡ ***NEW!***	5.00	43.48	323.75	—	STP21NM50N
	500	20	0.25	497-2663-5-ND‡	5.40	47.00	350.00	—	STP20NM50
	500	22	0.14	497-4672-5-ND‡ ***NEW!***	6.08	52.88	393.75	—	STP25NM50N
	600	1.4	8	497-4377-5-ND‡	.90	7.20	54.00	—	STP2NK60Z
	600	4	2	497-3191-5-ND‡	1.24	10.73	82.50	—	STP4NK60Z
	600	5	1.6	497-3196-5-ND‡	1.43	12.35	95.00	—	STP5NK60Z
	600	6	1.2	497-3198-5-ND‡	1.65	14.30	110.00	—	STP6NK60Z
	600	7	0.95	497-4387-5-ND‡	1.95	16.25	136.50	—	STP9NK60ZD
	600	10	0.64	497-4817-5-ND‡ ***NEW!***	1.75	14.58	122.43	—	STP12NK60Z
	600	10	0.75	497-4117-5-ND‡	2.64	22.00	184.80	—	STP10NK60Z
	600	11	0.45	497-2773-5-ND‡	3.70	32.20	239.75	—	STP11NM60
	600	11	0.45	497-4368-5-ND‡	3.51	30.55	227.50	—	STP11NM60A
	600	11	0.45	497-3180-5-ND‡	5.27	45.83	341.25	—	STP11NM60FD
	600	13	0.55	497-3182-5-ND‡	3.24	28.20	210.00	—	STP13NK60Z
	600	14	0.42	497-4372-5-ND‡	2.25	18.75	157.50	—	STP16NK60Z
	600	17	0.24	497-5019-5-ND‡ ***NEW!***	5.51	47.94	357.00	—	STP21NM60N
	600	20	0.17	497-5020-5-ND‡ ***NEW!***	6.70	58.28	434.00	—	STP25NM60N
	650	13	0.5	497-4119-5-ND‡	2.64	22.00	184.80	—	STP16NK65Z
	650	20	0.29	497-3184-5-ND‡	5.40	47.00	350.00	—	STP20NM60
	650	20	0.29	497-4376-5-ND‡	5.94	51.70	385.00	—	STP20NM60A
	800	2.5	4.5	497-4379-5-ND‡	1.17	10.11	77.75	—	STP3NK80Z
	800	3	3.5	497-3192-5-ND‡	1.43	12.35	95.00	—	STP4NK80Z
	800	11	0.4	497-4369-5-ND‡	6.44	58.80	464.80	—	STP11NM80
	900	2.1	6.5	497-4378-5-ND‡	1.08	9.36	72.00	—	STP2NK90Z
	900	4.5	2.5	497-4383-5-ND‡	1.65	13.75	115.50	—	STP5NK90Z
	900	5.8	2	497-3199-5-ND‡	2.16	18.00	151.20	—	STP6NK90Z
	900	8	1.3	497-2785-5-ND‡	2.58	21.50	180.60	—	STP9NK90Z
	1000	3	6	497-2641-5-ND‡	2.16	18.00	151.20	—	STP3NB100
	1000	3.5	3.7	497-4382-5-ND‡	2.69	22.43	188.37	—	STP5NK100Z
	1000	6.5	1.85	497-5021-5-ND‡ ***NEW!***	3.65	31.73	236.25	—	STP8NK100Z
TO-247									
2B	60	80	0.010	497-3266-5-ND‡	2.64	22.00	184.80	—	STW80NF06
	200	34	0.075	497-2659-5-ND‡	3.78	32.90	245.00	—	STW34NB20
	200	40	0.045	497-4427-5-ND‡	3.11	27.03	201.25	—	STW40N20
	250	52	0.045	497-4428-5-ND‡	4.66	40.54	301.88	—	STW52NK25Z
	500	14	0.34	497-3260-5-ND‡	2.76	23.00	193.20	—	STW15NK50Z
	500	14	0.38	497-3258-5-ND‡	3.78	32.90	245.00	—	STW14NK50Z
	500	17	0.27	497-3261-5-ND‡	3.11	27.03	201.25	—	STW20NK50Z
	500	18	0.19	497-4806-5-ND‡ ***NEW!***	5.27	45.83	341.25	—	STW21NM50N
	500	20	0.25	497-2717-5-ND‡	5.75	52.50	415.00	—	STW20NM50FD
	500	22	0.14	497-4675-5-ND‡ ***NEW!***	6.35	55.23	411.25	—	STW25NM50N
	500	30	0.120	497-3264-5-ND‡	7.48	68.25	539.50	—	STW26NM50
	500	31	0.13	497-4425-5-ND‡	6.90	63.00	498.00	—	STW29NK50Z
	500	45	0.1	497-2760-5-ND‡	11.39	103.95	821.70	—	STW45NM50
	500	45	0.1	497-2718-5-ND‡	11.00	101.75	770.00	—	STW45NM50FD
	550	14	0.35	497-3259-5-ND‡	5.54	48.18	358.75	—	STW14NM50
	550	20	0.25	497-3262-5-ND‡	5.40	47.00	350.00	—	STW20NM50
	600	10	0.75	497-3253-5-ND‡	4.05	35.25	262.50	—	STW10NK60Z
	600	13	0.55	497-3257-5-ND‡	3.78	32.90	245.00	—	STW13NK60Z
	600	14	0.42	497-3558-5-ND‡	3.51	30.55	227.50	—	STW16NK60Z
	600	16	0.36	497-4422-5-ND‡	4.59	39.95	297.50	—	STW18NK60Z
	600	17	0.24	497-5024-5-ND‡ ***NEW!***	5.81	50.53	376.25	—	STW21NM60N
	600	20	0.17	497-5025-5-ND‡ ***NEW!***	5.96	54.39	429.94	—	STW25NM60N
	600	27	0.185	497-4424-5-ND‡	6.90	63.00	498.00	—	STW28NK60Z

* For Tape and Reel part number, change 1-ND to 2-ND. † Bulk packaging ‡ Tube packaging

(Continued)

MOSFETs *(Cont.)*

Fig.	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel Pricing*	Mfg. Part No.
2B	600	30	0.135	497-3265-5-ND‡	7.48	68.25	539.50	—	STW26NM60
	600	30	0.145	497-4426-5-ND‡	9.78	89.25	705.50	—	STW30NM60D
	600	45	0.11	497-2768-5-ND‡	10.00	92.50	700.00	—	STW45NM60
	650	20	0.29	497-3263-5-ND‡	5.98	54.60	431.60	—	STW20NM60
	700	20	0.285	497-3559-5-ND‡	5.27	45.83	341.25	—	STW20NK70Z
	800	9	0.90	497-3254-5-ND‡	2.92	25.38	189.00	—	STW10NK80Z
	800	10.5	0.75	497-3256-5-ND‡	5.40	47.00	350.00	—	STW12NK80Z
	800	11	0.4	497-4420-5-ND‡	6.48	56.40	420.00	—	STW11NM80
	800	19	0.38	497-4423-5-ND‡	5.59	48.65	362.25	—	STW18NK80Z
	900	8	1.3	497-2784-5-ND‡	2.94	24.50	205.80	—	STW9NK90Z
	900	11	0.88	497-4421-5-ND‡	4.21	36.66	273.00	—	STW12NK90Z
	900	15	0.55	497-3557-5-ND‡	6.67	60.90	481.40	—	STW15NK90Z
	1000	8.3	1.38	497-3255-5-ND‡	5.67	49.35	367.50	—	STW11NK100Z
	1000	13	0.70	497-3556-5-ND‡	5.75	52.50	415.00	—	STW13NK100Z
D^{2}PAK									
3B	24	75	0.008	497-3515-1-ND	1.95	16.25	136.50	878.00/1,000	STB75NH02LT4
	40	120	0.0037	497-3513-1-ND	3.38	29.38	218.75	1663.00/1,000	STB200NF04T4
	55	80	0.008	497-3737-1-ND	2.37	19.75	165.90	1067.00/1,000	STB80NF55-08T4
	55	80	0.008	497-4321-1-ND	2.93	24.45	205.38	1320.00/1,000	STB140NF55T4
	60	16	0.09	497-4322-1-ND	1.04	8.97	69.00	400.00/1,000	STB16NF06LT4
	75	75	0.011	497-3514-1-ND	2.55	21.25	178.50	1148.00/1,000	STB75NF75LT4
	100	40	0.033	497-3736-1-ND	2.40	20.00	168.00	1080.00/1,000	STB40NF10LT4
	100	80	0.015	497-2489-1-ND	3.27	28.44	211.75	1337.00/1,000	STB80NF10T4
	100	120	0.0105	497-2452-1-ND	2.81	24.44	182.00	1383.00/1,000	STB120NF10T4
	200	40	0.045	497-4765-1-ND ***NEW!***	2.08	17.33	145.53	936.00/1,000	STB40N20
	500	4.4	1.5	497-4324-1-ND	1.25	10.86	83.50	484.00/1,000	STB5NK50ZT4
	500	10	0.52	497-2451-1-ND	1.89	15.75	132.30	851.00/1,000	STB11NK50ZT4
	500	17	0.27	497-4323-1-ND	2.84	24.68	183.75	1397.00/1,000	STB20NK50ZT4
	600	4	2	497-2486-1-ND	1.39	12.03	92.50	537.00/1,000	STB4NK60ZT4
	600	7	0.95	497-4325-1-ND	2.07	17.25	144.90	932.00/1,000	STB9NK60ZDT4
	600	11	0.45	497-3511-1-ND	5.40	47.00	350.00	2660.00/1,000	STB11NM60FDT4
	600	17	0.24	497-5002-1-ND ***NEW!***	5.64	49.12	365.75	2780.00/1,000	STB21NM60N
	600	20	0.17	497-5003-1-ND ***NEW!***	5.82	53.13	419.98	3226.001,000	STB25NM60N
	800	10.5	0.75	497-4320-1-ND	3.19	27.73	206.50	1569.00/1,000	STB12NK80ZT4
	800	11	0.4	497-4319-1-ND	6.44	58.80	464.80	3570.00/1,000	STB11NM80T4
DPAK									
4B	24	38	0.0135	497-3160-1-ND	1.80	15.00	126.00	1950.00/2,500	STD38NH02LT4
	24	40	0.011	497-4104-1-ND	1.43	12.35	95.00	1262.50/2,500	STD55NH2LLT4
	24	60	0.008	497-3165-1-ND	1.50	13.00	100.00	1330.00/2,500	STD70NH02LT4
	24	60	0.0048	497-4100-1-ND	2.16	18.00	151.20	2340.00/2,500	STD100NH02LT4
	24	80	0.005	497-4105-1-ND	2.34	19.50	163.80	2535.00/2,500	STD95NH02LT4
	30	17	0.05	497-3155-1-ND	1.16	10.08	77.50	1030.00/2,500	STD17NF03LT4
	30	30	0.025	497-3157-1-ND	1.95	16.25	136.50	2112.50/2,500	STD30NF03LT4
	30	35	0.0195	497-2475-1-ND	1.50	13.00	100.00	1330.00/2,500	STD35NF3LLT4
	30	60	0.0095	497-2476-1-ND	1.84	15.93	122.50	1630.00/2,500	STD60NF3LLT4
	30	80	0.0055	497-4749-1-ND ***NEW!***	1.65	13.75	115.50	1787.50/2,500	STD100N03LT4
	60	12	0.1	497-2487-1-ND	.81	6.48	45.00	642.50/2,500	STD12NF06LT4
	60	12	0.1	497-3154-1-ND	.94	8.13	62.50	832.50/2,500	STD12NF06T4
	60	24	0.07	497-4329-1-ND	1.04	8.97	69.00	917.50/2,500	STD16NF06LT4
	60	35	0.028	497-4101-1-ND	1.31	11.38	87.50	1165.00/2,500	STD30NF06LT4
	60	35	0.024	497-3159-1-ND	1.58	13.65	105.00	1397.50/2,500	STD35NF06T4
	75	40	0.024	497-4334-1-ND	1.50	13.00	100.00	1330.00/2,500	STD45NF75T4
	100	13	0.13	497-3153-1-ND	1.20	10.40	80.00	1065.00/2,500	STD10NF10T4
	100	25	0.035	497-3156-1-ND	1.13	9.75	75.00	997.50/2,500	STD25NF10LT4
	200	5	0.7	497-4335-1-ND	1.05	9.10	70.00	930.00/2,500	STD5N20LT4
	200	18	0.125	497-4330-1-ND	1.81	15.70	120.75	1605.00/2,500	STD20N20T4
	200	22	0.105	497-4653-1-ND ***NEW!***	3.11	27.03	201.25	3680.00/2,500	STD22NM20NT4
	400	3	1.8	497-2477-1-ND	1.05	9.10	70.00	930.00/2,500	STD5NK40ZT4
	500	2.3	3.3	497-4333-1-ND	1.64	14.20	109.25	1452.50/2,500	STD3NK50ZT4
	500	3	2.7	497-4103-1-ND	.98	8.45	65.00	865.00/2,500	STD4NK50ZT4
	500	4.4	1.5	497-3520-1-ND	1.09	9.43	72.50	1052.50/2,500	STD5NK50ZT4
	500	7.5	0.8	497-3162-1-ND	2.85	23.75	199.50	3087.50/2,500	STD5NM50T4
	600	1	8.5	497-2483-1-ND	1.04	8.28	62.10	820.00/2,500	STD1NK60T4
	600	2	5	497-2485-1-ND	1.05	9.10	70.00	930.00/2,500	STD1HNC60T4
	600	2.4	3.6	497-4102-1-ND	.98	8.45	65.00	865.00/2,500	STD3NK60ZT4
	600	3	1.5	497-3161-1-ND	1.50	13.00	100.00	1330.00/2,500	STD3NM60T4
	600	5	1	497-3163-1-ND	2.70	22.50	189.00	2925.00/2,500	STD5NM60T4
	700	1.6	7	497-4331-1-ND	1.51	13.10	100.75	1340.00/2,500	STD2NK70ZT4
	800	1.0	16	497-4751-1-ND ***NEW!***	.99	7.92	59.40	785.00/2,500	STD1NK80ZT4
	900	2.1	6.5	497-4332-1-ND	1.51	13.10	100.75	1340.00/2,500	STD2NK90ZT4
ISOTOP									
5A	100	180	.006	497-3166-5-ND‡	47.25	405.00	3591.00	—	STE180NE10
	100	220	.0055	497-3167-5-ND‡	35.00	300.00	2660.00	—	STE250NS10
	200	110	0.024	497-2657-5-ND‡	35.00	300.00	2660.00	—	STE110NS20FD
	500	53	0.08	497-2776-5-ND‡	30.63	262.50	2327.50	—	STE53NC50
	500	70	0.05	497-3172-5-ND‡	35.00	300.00	2660.00	—	STE70NM50
	550	48	0.1	497-3170-5-ND‡	20.21	173.25	1536.15	—	STE48NM50
	600	40	0.13	497-3169-5-ND‡	30.63	262.50	2327.50	—	STE40NC60
	600	70	0.055	497-3173-5-ND‡	35.00	300.00	2660.00	—	STE70NM60
5B	900	28	0.26	497-4336-5-ND‡	38.50	330.00	2926.00	—	STE30NK90Z
	900	40	0.18	497-4337-5-ND‡	28.88	247.50	2194.50	—	STE40NK90ZD

Fig.	VDSS (V)	ID (A)	RDS(on) (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel Pricing*	Mfg. Part No.
TO-220FP									
6B	60	20	0.07	497-4340-5-ND‡	.93	7.45	55.89	—	STF20NF06
	60	23	0.028	497-4343-5-ND‡	1.58	13.65	105.00	—	STF40NF06
	60	37	0.016	497-3197-5-ND‡	2.40	20.00	168.00	—	STP60NF06FP
	60	50	0.018	497-3193-5-ND‡	2.10	17.50	147.00	—	STP55NF06FP
	200	18	0.125	497-4339-5-ND‡	1.56	13.00	109.20	—	STF20N20
	200	40	0.045	497-5006-5-ND‡ ***NEW!***	2.70	22.50	189.00	—	STF40N20
	500	9	0.7	497-4654-5-ND‡ ***NEW!***	1.65	13.75	115.50	—	STF10NK50Z
	500	11	0.38	497-4804-5-ND‡ ***NEW!***	3.51	30.55	227.50	—	STF12NM50N
	500	12	0.35	497-2665-5-ND‡	4.32	37.60	280.00	—	STP12NM50FP
	500	18	0.19	497-4803-5-ND‡ ***NEW!***	5.13	44.65	332.50	—	STF21NM50N
	500	22	0.14	497-4655-5-ND‡ ***NEW!***	6.21	54.05	402.50	—	STF25NM50N
	600	7	0.95	497-4346-5-ND‡	2.14	17.83	149.73	—	STF9NK60ZD
	600	10	0.64	497-4808-5-ND‡ ***NEW!***	1.78	14.85	124.74	—	STF12NK60Z
	600	17	0.24	497-5004-5-ND‡ ***NEW!***	5.64	49.12	365.75	—	STF21NM60N
	600	20	0.17	497-5005-5-ND‡ ***NEW!***	5.82	53.13	419.98	—	STF25NM60N
	650	11	0.45	497-3181-5-ND‡	5.27	45.83	341.25	—	STP11NM60FP
	650	20	0.29	497-2771-5-ND‡	5.67	49.35	367.50	—	STP20NM60FP
	800	2.5	4.5	497-4342-5-ND‡	1.29	11.21	86.25	—	STF3NK80Z
	800	11	0.40	497-4338-5-ND‡	3.24	28.20	210.00	—	STF11NM80
	900	3	4.2	497-4341-5-ND‡	1.38	11.96	92.00	—	STF3HNK90Z
	1000	3.5	3.7	497-4344-5-ND‡	2.14	17.83	149.73	—	STF5NK100Z
	1000	6.5	1.85	497-5007-5-ND‡ ***NEW!***	2.84	24.68	183.75	—	STF8NK100Z
8-SOIC									
8B	30	9	0.020	497-3234-1-ND	1.65	14.30	110.00	1462.50/2,500	STS9NF30L
	30	11	0.0105	497-4121-1-ND	1.08	8.64	64.80	855.00/2,500	STS11NF30L
	30	12	0.0105	497-4122-1-ND	1.50	13.00	100.00	1330.00/2,500	STS12NH3LL
	30	12	0.009	497-3223-1-ND	1.83	15.25	128.10	1982.50/2,500	STS12NF30L
	30	12	0.0105	497-4755-1-ND ***NEW!***	1.44	12.51	96.25	1280.00/2,500	STSJ50NH3LL
	30	17	0.0055	497-3224-1-ND	1.50	13.00	100.00	1330.00/2,500	STS17NF3LL
	30	25	0.0035	497-2474-1-ND	2.10	17.50	147.00	1787.50/2,500	STS25NH3LL
	55	24	0.035	497-3317-1-ND	2.28	19.00	159.60	2470.00/2,500	VNS14NV0413TR
	60	7.5	0.0195	497-4757-1-ND ***NEW!***	1.28	11.08	85.25	1135.00/2,500	STS7NF60L
8C	30	4	0.055	497-3227-1-ND	1.50	12.50	105.00	1625.00/2,500	STS4DNFS30L
8D	600	0.3	8.5	497-3530-1-ND	1.05	9.10	70.00	930.00/2,500	STS1HNK60
Max247									
7	100	140	0.011	497-3267-5-ND‡	13.00	120.25	910.00	—	STY140NS10
	300	60	0.045	497-4432-5-ND‡	7.29	66.57	526.22	—	STY60NK30Z
	500	60	0.05	497-2775-5-ND‡	17.00	157.25	1190.00	—	STY60NM50
	600	60	0.055	497-3268-5-ND‡	15.56	143.93	1089.20	—	STY60NM60
	900	28	0.26	497-4431-5-ND‡	13.80	127.65	966.00	—	STY30NK90Z
SOT23-3L									
9	60	0.20	5	497-3111-1-ND	.52	4.00	28.80	408.00/3,000	2N7002
TO-92									
10	60	0.35	5	497-3110-ND†	.52	4.00	28.80	—	2N7000
IPAK TO-251									
11	24	50	0.0105	497-3519-5-ND‡	1.50	13.00	100.00	—	STD50NH02L-1
	30	60	0.009	497-3164-5-ND‡	1.35	11.70	90.00	—	STD60NH03L-1
PowerSO-10									
14	20	160	0.0025	497-3251-1-ND	6.48	56.40	420.00	2016.00/600	STV160NF02L
	30	160	0.0028	497-3252-1-ND	5.75	52.50	415.00	1950.00/600	STV160NF03L
SOT-223									
13	30	6.5	0.05	497-4525-1-ND	1.50	13.00	100.00	2128.00/4,000	STN4NF03L
	60	4	0.1	497-3177-1-ND	1.13	9.75	75.00	1596.00/4,000	STN3NF06L
	60	4	0.1	497-4764-1-ND ***NEW!***	.74	5.94	44.55	940.00/4,000	STN3NF06
	200	1	1.5	497-3176-1-ND	1.84	15.93	122.50	2608.00/4,000	STN1N20
	600	0.25	15	497-3523-1-ND	.72	5.76	43.20	912.00/4,000	STN1NK60Z
	600	0.4	8.5	497-4668-1-ND ***NEW!***	1.04	8.28	62.10	1312.00/4,000	STN1HNK60
	800	0.25	16	497-4669-1-ND ***NEW!***	1.01	8.78	67.50	1436.00/4,000	STN1NK80Z
TSSOP-8									
15	30	5	0.031	497-4327-1-ND	.72	5.80	43.47	916.00/4,000	STC5NF30V
I^{2}PAK									
16	40	120	0.0037	497-3512-5-ND‡	2.40	20.00	168.00	—	STB200NF04-1
PowerFLAT™ (6 x 5)									
17	30	27	0.013	497-4114-1-ND	1.80	15.60	120.00	1914.00/3,000	STL50NH3LL
	200	20	0.105	497-4657-1-ND ***NEW!***	3.11	27.03	201.25	1530.00/1,000	STL20NM20N
PowerFLAT™ (3.3 x 3.3)									
18	30	8	0.015	497-4115-1-ND	1.58	13.65	105.00	1677.00/3,000	STL8NH3LL
NEW!* ClipPak™ *NEW!									
19	24	150	0.0035	497-4750-1-ND	1.82	15.13	127.05	1967.50/2,500	STD150NH02LT4
Dual N-Channel									
TSSOP-8									
15	20	5	0.045	497-3151-1-ND	.90	7.20	54.00	1140.00/4,000	STC5NF20V
	30	6	0.030	497-3152-1-ND	1.50	13.00	100.00	2128.00/4,000	STC6NF30V
8-SOIC									
8A	20	5	0.045	497-3229-1-ND	1.80	15.00	126.00	1950.00/2,500	STS5DNF20V
	30	8	0.022	497-4399-1-ND	1.39	12.03	92.50	1230.00/2,500	STS8DNH3LL

* For Tape and Reel part number, change 1-ND to 2-ND. † Bulk packaging ‡ Tube packaging *(Continued)*

MOSFETs *(Cont.)*

Fig.	VDSS (V)	I_D (A)	R_{DS}(on) (Ω)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing*	Mfg. Part No.
					1	10	100		
8A	30	8	0.020	497-2470-1-ND	1.31	11.38	87.50	1247.50/2,500	STS8DNF3LL
	60	4	0.055	497-3226-1-ND	2.10	17.50	147.00	2275.00/2,500	STS4DNF60L
P-Channel									
TO-220									
1B	60	12	0.20	497-2721-5-ND‡	.84	6.73	50.49	—	STP12PF06
	55	80	0.018	497-2729-5-ND‡	2.46	20.50	172.20	—	STP80PF55
D^2PAK									
3B	60	16	0.125	497-4099-1-ND	1.28	11.05	85.00	493.00/1,000	STB16PF06LT4
DPAK									
4B	30	24	0.028	497-3158-1-ND	1.76	15.28	117.50	1562.50/2,500	STD30PF03LT4
	60	10	0.20	497-2456-1-ND	1.08	8.64	64.80	855.00/2,500	STD10PF06T4
8-SOIC									
8A	20	5	0.055	497-4758-1-ND ***NEW!***	1.57	13.59	104.50	1390.00/2,500	STS5DPF20L
8B	20	5	0.10	497-3230-1-ND	1.08	8.64	64.80	855.00/2,500	STS5PF20L
8B	30	5	0.08	497-3231-1-ND	1.59	13.25	111.30	1722.50/2,500	STS5PF30L
8B	30	7	0.021	497-3233-1-ND	1.50	13.00	100.00	1330.00/2,500	STS7PF30L
8B	30	10	0.014	497-4120-1-ND	1.50	13.00	100.00	1330.00/2,500	STS10PF30L
8C	20	2.5	0.25	497-3225-1-ND	1.80	15.00	126.00	1950.00/2,500	STS2DPFS20V
SOT23-6L									
12	20	3	0.135	497-3236-1-ND	1.09	9.43	72.50	1158.00/3,000	STT4PF20V
SOT-223									
13	20	5	0.08	497-4364-1-ND	1.04	8.28	62.10	1312.00/4,000	STN5PF20V
	60	2.5	0.20	497-4116-1-ND	.94	8.13	62.50	1332.00/4,000	STN3PF06
P-Channel with Schottky									
8-SOIC									
8C	30	5	0.055	497-4397-1-ND	1.65	14.30	110.00	1462.50/2,500	STS4DPFS30L
Dual P-Channel									
8-SOIC									
8A	30	4	0.08	497-3228-1-ND	1.65	13.75	115.50	1787.50/2,500	STS4DPF30L
	60	3	0.12	497-4123-1-ND	1.43	12.35	95.00	1262.50/2,500	STS3DPF60L
N/P-Channel									
8-SOIC									
8A	30	8/5	.022/.055	497-4398-1-ND	1.58	13.65	105.00	1397.50/2,500	STS8C5H30L
	60	4/3	.055/.12	497-4396-1-ND	1.50	13.00	100.00	1330.00/2,500	STS4C3F60L
PowerMESH™ IGBT									
TO-220									
1A	600	3	—	497-2653-5-ND‡	1.39	12.03	92.50	—	STGP3NB60F
	600	3	—	497-2652-5-ND‡	1.61	13.98	107.50	—	STGP3NB60FD
	600	14	—	497-4112-5-ND‡	1.69	14.63	112.50	—	STGP7NB60KD
	600	20	—	497-5008-5-ND‡ ***NEW!***	3.51	30.55	227.50	—	STGP10NB60SD
	600	25	—	497-4113-5-ND‡	1.65	13.75	115.50	—	STGP7NC60H
	600	60	—	497-4355-5-ND‡	3.11	27.03	201.25	—	STGP20NC60V
TO-247									
2A	600	20	2.8	497-2654-5-ND‡	5.94	51.70	385.00	—	STGW20NB60KD
	600	60	—	497-4356-5-ND‡	4.19	36.50	271.78	—	STGW20NC60V
	600	60	—	497-4357-5-ND‡	4.35	37.84	281.75	—	STGW20NC60VD
	600	60	—	497-5009-5-ND‡ ***NEW!***	5.00	43.48	323.75	—	STGW30NC60W
	600	80	—	497-4358-5-ND‡	6.88	62.79	496.34	—	STGW40NC60V
D^2PAK									
3A	18	20	—	497-4349-1-ND	3.42	29.73	221.38	1682.00/1,000	STGB10NB40LZT4
	20	40	—	497-4351-1-ND	3.73	32.43	241.50	1835.00/1,000	STGB20NB41LZT4
	350	20	—	497-3522-5-ND‡	3.51	30.55	227.50	—	STGB20NB32LZ
	425	20	—	497-4106-1-ND	3.56	31.02	231.00	1756.00/1,000	STGB10NB37LZT4
	600	3	—	497-2449-1-ND	1.61	13.98	107.50	—	STGB3NB60FDT4
	600	14	—	497-4107-1-ND	1.80	15.00	126.00	810.00/1,000	STGB7NB60HDT4
	600	25	—	497-4108-1-ND	1.59	13.25	111.30	716.00/1,000	STGB7NC60HDT4
	600	30	—	497-4350-1-ND	2.07	17.25	144.90	932.00/1,000	STGB12NB60KDT4
DPAK									
4A	600	3	—	497-2450-1-ND	1.39	12.03	92.50	1230.00/2,500	STGD3NB60FT4
	600	6	—	497-4109-1-ND	1.35	11.70	90.00	1197.50/2,500	STGD3NB60SDT4
	600	14	—	497-4110-1-ND	1.73	14.95	115.00	1530.00/2,500	STGD7NB60KT4
	600	25	—	497-4111-1-ND	1.62	13.50	113.40	1755.00/2,500	STGD7NC60HT4
	1200	10	—	497-4352-1-ND	1.73	14.95	115.00	1530.00/2,500	STGD5NB120SZT4
TO-220FP									
6A	600	10	—	497-4354-5-ND‡	1.80	15.00	126.00	—	STGF7NC60HD
	1200	6	—	497-4353-5-ND‡	2.07	17.25	144.90	—	STGF3NC120HD

* For Tape and Reel part number, change 1-ND to 2-ND. † Bulk packaging ‡ Tube packaging

ON Semiconductor™ MOSFETs

Fig. 1 — TO-220AB

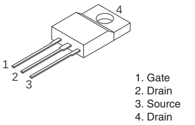

Fig. 2 — TO-92

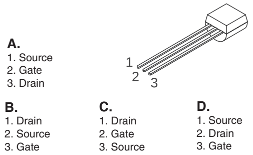

Fig. 3 — TO-251A

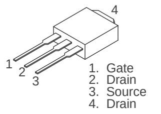

Fig. 4 — 8-SOIC

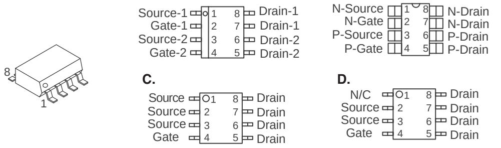

Fig. 5 — SOT-23

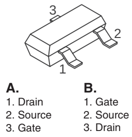

Fig. 6 — SOT-223

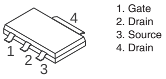

Fig. 7 — SOT-323, SOT-416

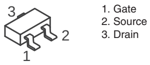

Fig. 8 — TSOP-6

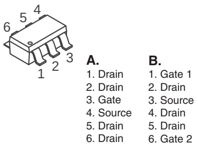

Fig. 9 — DPAK

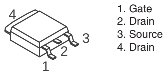

Fig. 10 — D2-PAK

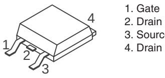

Fig. 11 — SC-89

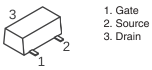

Fig. 12 — ChipFET

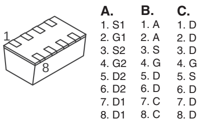

Fig. 13 — SOT-363

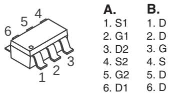

Fig. 14 — TSSOP-8

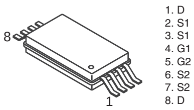

Fig. 15 — Micro8

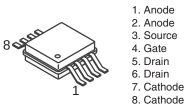

Fig. 16 — SOT-563

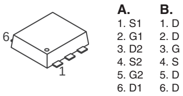

Fig.	VDS (V)	RDS (on) (Ω)	ID (A)	IDM (A)	PD (W)	Digi-Key Part No.	Pricing			Tape and Reel*	
							10	100	250	Size	Pricing
N-Channel											
TO-92											
2A	60	5	.2	.5	.350	2N7000RLRAGOSCT-ND◊	3.48	24.46	44.48	2,000	111.00/M
2C	60	5	0.5	—	.350	BS170RLRAOSCT-ND	3.75	27.00	50.63	2,000	126.00/M
2C	60	5	0.5	—	.350	BS170RLRAGOSCT-ND◊	3.75	27.00	50.63	2,000	135.00/M
2C	200	6.4	.250	.500	.350	BS107AGOS-ND◊	3.65	26.24	49.21	—	—
TO-220AB											
1	24	.005	90	200	85	NTP90N02OS-ND	14.63	112.50	236.25	—	—
	24	.008	65	160	1.86	NTP65N02ROS-ND	12.50	105.00	218.75	—	—

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***NEW!*** ***RoHS Compliant***

(Continued)

ON Semiconductor™ MOSFETs *(Cont.)*

Fig.	VDS (V)	RDS (on) (Ω)	ID (A)	IDM (A)	PD (W)	Digi-Key Part No.	Pricing			Tape and Reel*	
							10	100	250	Size	Pricing
1	25	.0056	75	225	2.08	NTP75N03ROS-ND	13.65	105.00	220.50	—	—
	28	.0061	85	190	80	NTP85N03OS-ND	14.63	112.50	236.25	—	—
	100	.022	10	35	40	MTP10N10ELOS-ND	12.68	97.50	204.75	—	—
TO-251A											
3	24	.005	80	200	75	NTD80N02-001OS-ND	11.26	86.63	181.91	—	—
	24	.0037	110	—	92.5	NTD110N02R-001OS-ND	12.03	92.50	194.25	—	—
	25	.0704	14	—	20.8	NTD14N03R-001OS-ND	4.33	31.18	58.46	—	—
	25	.0056	70	96	52.1	NTD70N03R-001OS-ND	9.20	70.75	148.58	—	—
	25	.0126	40	80	41.7	NTD40N03R-001OS-ND	6.44	48.33	102.93	—	—
	25	.032	23	40	22.3	NTD23N03R-001OS-ND	6.03	45.23	96.31	—	—
8-SOIC											
4A	40	.08	3.4	40	2	MMDF3N04HDR2OSCT-ND	10.08	77.50	162.75	2,500	412.00/M
4C	28	.0098	14	40	2.5	NTMS4503NR2OSCT-ND	15.93	122.50	257.25	2,500	652.00/M
	30	.0175	9.6	50	1.56	NTMS4404NR2OSCT-ND	12.03	92.50	194.25	2,500	492.00/M
	30	.01	11.5	40	1.56	NTMS4700NR2OSCT-ND	13.75	115.50	240.63	2,500	715.00/M
SOT-23											
5B	20	.08	3.2	10	1.25	NTR4501NT1GOSCT-ND	4.16	29.92	56.09	3,000	141.00/M
	20	1	.300	.750	.225	MMBF0201NLT1OSCT-ND	3.76	27.04	50.69	—	—
	20	.090	.750	2	.400	MGSF1N02LT1OSCT-ND	4.00	30.00	60.00	—	—
	30	.14	2.0	6.0	.73	NTR4503NT1GOSCT-ND	4.16	29.92	56.09	3,000	141.00/M
	30	.100	.750	2	.400	MGSF1N03LT1OSCT-ND	3.40	25.50	51.00	—	—
	50	3.5	.200	.800	.225	BSS138LT1GOSCT-ND◊	2.58	17.89	32.25	3,000	69.00/M
	60	7.5	.115	.800	.225	2N7002LT1OSCT-ND	1.86	12.09	20.93	—	—
	60	7.5	.115	.800	.225	2N7002LT1GOSCT-ND◊	1.87	12.16	21.04	3,000	44.00/M
	100	6	0.17	0.68	.225	BSS123LT1OSCT-ND	2.74	18.98	34.22	—	—
	100	6	0.17	0.68	.225	BSS123LT1GOSCT-ND◊	2.74	18.98	34.22	3,000	73.00/M
SOT-223											
6	42	.068	14	—	1.25	NIF5003NT1OSCT-ND	12.35	95.00	199.50	—	—
SOT-323											
7	30	1.5	.27	.20	.33	NTS4001NT1GOSCT-ND	4.16	29.92	56.09	3,000	141.00/M
SOT-416											
7	20	1.5	.238	.714	.30	NTA4001NT1GOSCT-ND	3.25	23.40	43.88	3,000	111.00/M
	20	.23	.915	1.3	.30	NTA4153NT1GOSCT-ND	3.56	25.63	48.06	3,000	121.00/M
SC-89											
11	20	.23	.915	1.3	.30	NTE4153NT1GOSCT-ND	4.00	30.00	60.00	3,000	150.00/M
TSOP-6											
8A	20	.045	2.5	10	.5	NTGS3446T1OSCT-ND	4.75	35.61	71.22	3,000	178.00/M
DPAK											
9	24	.005	80	200	75	NTD80N02T4OSCT-ND	11.26	86.63	181.91	2,500	461.00/M
	24	.0037	110	—	92.5	NTD110N02RT4OSCT-ND	14.08	108.28	227.38	2,500	576.00/M
	25	.0704	14	—	20.8	NTD14N03RT4OSCT-ND	3.92	29.37	58.74	2,500	147.00/M
	25	.0126	40	80	41.7	NTD40N03RT4OSCT-ND	6.44	48.33	102.93	2,500	—
	25	.032	23	40	22.3	NTD23N03RT4OSCT-ND	6.03	45.23	96.31	2,500	239.00/M
	24	.008	60	—	48	NTD60N02RT4OSCT-ND	8.94	67.04	142.77	2,500	354.00/M
	42	.029	33	—	64	NID5001NT4OSCT-ND	14.75	123.90	258.13	2,500	767.00/M
	42	.051	20	—	1.3	NID5003NT4OSCT-ND	12.51	96.25	202.13	2,500	512.00/M
	59	.181	9	35	28.8	NID9N05CLT4OSCT-ND	5.60	42.00	84.00	2,500	210.00/M
	200	.460	6	18	50	MTD6N20ET4OSCT-ND	32.50	250.00	525.00	2,500	1280.00/M
D2-PAK											
10	28	.0061	85	190	80	NTB85N03T4OSCT-ND	15.50	130.20	271.25	800	540.00
	24	.005	90	200	85	NTB90N02T4OSCT-ND	14.63	112.50	236.25	800	597.60
	24	.008	65	160	1.86	NTB65N02RT4OSCT-ND	12.50	105.00	218.75	800	600.00
	24	.0037	125	—	2.72	NTB125N02RT4OSCT-ND	13.75	115.50	240.63	800	660.00
	25	.0056	75	225	2.08	NTB75N03ROS-ND	13.65	105.00	220.50	—	—
ChipFET											
12C	30	.05	4.9	20	1.3	NTHS4501NT1GOSCT-ND	9.10	70.00	147.00	3,000	372.00/M
SOT-363											
13B	25	.35	1.0	3.7	.63	NTJS4405NT1GOSCT-ND	4.00	30.00	60.00	3,000	150.00/M
Dual N-Channel											
ChipFET											
12A	20	.075	3.1	10	1.13	NTHD4508NT1GOSCT-ND	5.85	45.00	94.50	3,000	239.00/M
	30	.14	2.9	10	1.13	NTHD4502NT1GOSCT-ND	10.40	80.00	168.00	3,000	426.00/M
SOT-363											
13A	20	.375	.63	1.2	.27	NTJD4401NT1GOSCT-ND	3.80	28.47	56.94	3,000	142.00/M
	30	1.5	.25	.60	.272	NTJD4001NT1GOSCT-ND	5.76	43.20	92.00	3,000	228.00/M
TSSOP-8											
14	20	.019	7.5	30	1.52	NTQD4154ZR2OSCT-ND	15.93	122.50	257.25	4,000	652.00/M
SOT-563											
16A	20	.55	.54	1.5	.25	NTZD3154NT1GOSCT-ND	4.80	36.00	72.00	4,000	180.00/M
P-Channel											
8-SOIC											
4D	20	.075	5.6	30	2.5	MMSF3P02HDR2OSCT-ND	10.89	83.75	175.88	—	—
TO-220AB											
1	100	.300	12	28	75	MTP12P10OS-ND	15.00	126.00	262.50	—	—
	500	6	2	6.0	75	MTP2P50EOS-ND	20.00	168.00	350.00	—	—
SOT-23											
5B	8	.052	3.7	11	.96	NTR2101PT1GOSCT-ND	3.89	29.19	58.38	3,000	146.00/M
	20	.085	2.4	7.5	.73	NTR4101PT1GOSCT-ND	4.16	29.92	56.09	3,000	141.00/M
	20	.350	.750	2	.400	MGSF1P02LT1OSCT-ND	4.00	30.00	60.00	3,000	150.00/M
	50	10	.130	.520	.225	BSS84LT1OSCT-ND	3.18	22.05	39.75	3,000	62.00/M
	50	10	.130	.520	.225	BSS84LT1GOSCT-ND◊	3.18	22.05	39.75	3,000	85.00/M
SOT-323											
7	8	.10	1.4	3.0	.29	NTS2101PT1GOSCT-ND	4.00	30.00	60.00	3,000	150.00/M
	20	2.2	.300	.750	.150	MMBF2202PT1OSCT-ND	3.47	24.95	46.78	3,000	118.00/M
SOT-363											
13B	12	.06	2.7	8.0	.625	NTJS3151PT1GOSCT-ND	4.36	31.39	58.86	3,000	148.00/M
	20	.06	3.3	10	1.0	NTJS4151PT1OSCT-ND	3.93	29.46	58.92	3,000	147.00/M
SOT-416											
7	20	.36	.760	1.0	.301	NTA4151PT1GOSCT-ND	3.86	27.76	52.04	3,000	131.00/M
SC-89											
11	20	.36	.760	1.0	.301	NTE4151PT1GOSCT-ND	4.00	30.00	60.00	3,000	150.00/M
TSOP-6											
8A	30	.11	3.7	15	1.25	NTGS4111PT1GOSCT-ND	6.84	51.30	109.25	3,000	271.00/M
ChipFET											
12B	20	.08	3.2	13	1.1	NTHD3101FT1GOSCT-ND	9.75	75.00	157.50	3,000	399.00/M
12C	30	.075	4.4	30	1.3	NTHS4111PT1GOSCT-ND	9.10	70.00	147.00	3,000	372.00/M
Micro8											
15	20	.09	3.3	10	1.42	NTTD4401FR2OSCT-ND	9.43	72.50	152.25	4,000	386.00/M
SOT-563											
16B	20	.15	.86	4	.17	NTZS3151PT1GOSCT-ND	4.80	36.00	72.00	4,000	180.00/M
Dual P-Channel											
ChipFET											
12A	20	.155	2.1	7.0	1.1	NTHD4401PT3GOSCT-ND	10.40	80.00	168.00	10,000	400.00/M
SOT-363											
13A	8	0.3	.775	1.2	.27	NTJD2152PT1GOSCT-ND	4.39	32.91	65.82	3,000	165.00/M
	20	.26	.88	3.0	.272	NTJD4152PT1GOSCT-ND	5.60	42.00	84.00	3,000	210.00/M
SOT-563											
16A	20	0.9	.43	.75	.25	NTZD3152PT1GOSCT-ND	5.40	40.50	86.25	4,000	214.00/M
Dual N/P Channel Complementary											
8-SOIC											
4B	30	.07/.20	4.1/3	21/15	2	MMDF2C03HDR2OSCT-ND	12.35	95.00	199.50	2,500	505.00/M
ChipFET											
12A	20	.08/.08	2.9/3.2	12/13	1.1	NTHD3100CT1GOSCT-ND	9.75	75.00	157.50	3,000	399.00/M
SOT-363											
13A	20/8	.375/.30	.63/.775	1.2	.27	NTJD4105CT1GOSCT-ND	6.84	51.30	109.25	3,000	271.00/M
SOT-563											
16A	20	.55/.9	.54/.43	1.5/.75	.25	NTZD3155CT1GOSCT-ND	4.80	36.00	72.00	4,000	180.00/M

JFET

Fig.	V_{DS} (V)	V_{GS} (V)	I_{GF} (mA)	P_D (mW)	$V_{(BR)}$ GSS	Digi-Key Part No.	Pricing		
							1	10	100
JFET Depletion Mode									
TO-92									
2B	25	25	10	350	-25	J310OS-ND	.46	3.50	25.20
	25	25	10	350	-25	J310GOS-ND◊	.46	3.56	25.63

Fig.	IDSS Min. (A)	VGS (off) Max. (V)	VGSS (V)	PD (W)	Digi-Key Part No.	Pricing			Tape and Reel*	
						10	100	250	Size	Pricing
N-Channel										
SOT-23										
5A	.025	-5	30	.225	MMBF4392LT1OSCT-ND	2.48	18.57	37.14	3,000	105.00/M
	-.001	-3	-25	.200	MMBF5484LT1OSCT-ND	2.80	21.00	42.00	3,000	119.00/M
	.012	-4	-25	.225	MMBFJ309LT1OSCT-ND	2.80	21.00	42.00	—	—
	.005	-6	30	.225	MMBF4416LT1OSCT-ND	2.48	18.57	37.14	—	—
	.024	-6	-25	.225	MMBFU310LT1OSCT-ND	2.80	21.00	42.00	—	—
	.001	-6	-25	.225	MMBF5457LT1OSCT-ND	2.80	21.00	42.00	3,000	119.00/M
TO-92										
2B	.001	-6	-25	.310	2N5457OS-ND	3.50	25.20	47.25	—	—
	.001	-6	-25	.310	2N5457GOS-ND◊	3.56	25.63	48.06	—	—
	.002	-6	-25	.310	2N5458GOS-ND◊	3.56	25.63	48.06	—	—
	.008	-6	-25	.350	2N5486OS-ND	3.50	25.20	47.25	—	—
	.008	-6	-25	.350	2N5486GOS-ND◊	3.56	25.63	48.06	—	—
TSOP-6										
8B	—	2.0	15	.66	NUD3048MT1OSCT-ND	10.44	78.30	166.75	3,000	413.00/M
P-Channel										
SOT-23										
5A	.007	6	30	.225	MMBFJ175LT1OSCT-ND	2.80	21.00	42.00	3,000	119.00/M
TO-92										
2D	-.001	6	40	.350	2N5460OS-ND	3.50	25.20	47.25	—	—
	-.001	6	40	.350	2N5460GOS-ND◊	3.56	25.63	48.06	—	—
	-.002	7.5	40	.350	2N5461OS-ND	3.50	25.20	47.25	—	—
	-.002	7.5	40	.350	2N5461GOS-ND◊	3.56	25.63	48.06	—	—

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***NEW!* *RoHS Compliant***

Diodes-Bridge Rectifiers

Fig. 1

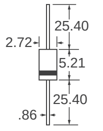

Fig. 2

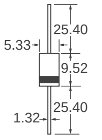

Fig. 3

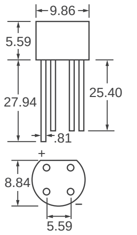

Fig. 4

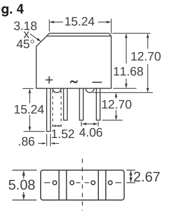

Fig. 5

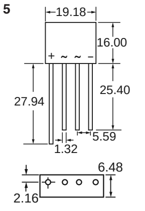

Fig. 6

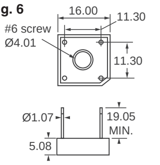

Fig. 7

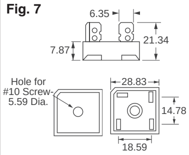

Fig. 8

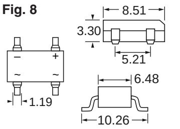

Fig. 9

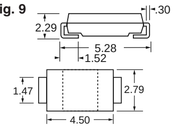

Fig. 10

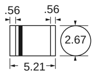

Fig.	Package	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Peak Forward Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Typ. Reverse Recovery Time (µS)	Oper. Junction Temp. (°C)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,400	5,500
Silicon Diode														
1	DO-41	1.0	50	30	1.1	30	-50 ~ 175	1N4001/4GICT-ND	—	.69	5.52	1N4001/4GITR-ND	—	28.00/M
			100	30	1.1	30	-50 ~ 175	1N4002/4GICT-ND	—	.69	5.52	1N4002/4GITR-ND	—	28.00/M
			200	30	1.1	30	-50 ~ 175	1N4003/4GICT-ND	—	.69	5.52	1N4003/4GITR-ND	—	28.00/M
			400	30	1.1	30	-50 ~ 175	1N4004/4GICT-ND	—	.69	5.52	1N4004/4GITR-ND	—	28.00/M
			600	30	1.1	30	-50 ~ 175	1N4005/4GICT-ND	—	.69	5.52	1N4005/4GITR-ND	—	28.00/M
			800	30	1.1	30	-50 ~ 175	1N4006/4GICT-ND	—	.69	5.52	1N4006/4GITR-ND	—	28.00/M
			1000	30	1.1	30	-50 ~ 175	1N4007/4GICT-ND	—	.69	5.52	1N4007/4GITR-ND	—	28.00/M
2	DO-201AD	3.0	50	200	1.2	—	-50 ~ 170	1N5400/4GICT-ND	.43	3.15	22.88	1N5400/4GITR-ND	143.00/M	—
			100	200	1.2	—	-50 ~ 170	1N5401/4GICT-ND	.43	3.15	22.88	1N5401/4GITR-ND	143.00/M	—
			200	200	1.2	—	-50 ~ 170	1N5402/4GICT-ND	.43	3.15	22.88	1N5402/4GITR-ND	143.00/M	—
			400	200	1.2	—	-50 ~ 170	1N5404/4GICT-ND	.43	3.15	22.88	1N5404/4GITR-ND	143.00/M	—
			600	200	1.2	—	-50 ~ 170	1N5406/4GICT-ND	.43	3.15	22.88	1N5406/4GITR-ND	143.00/M	—
			800	200	1.2	—	-50 ~ 170	1N5407/4GICT-ND	.43	3.15	22.88	1N5407/4GITR-ND	143.00/M	—
			1000	200	1.2	—	-50 ~ 170	1N5408/4GICT-ND	.43	3.15	22.88	1N5408/4GITR-ND	143.00/M	—
Schottky Barrier Diode														
1	DO-41	1.0	20	25	.45	—	-65 ~ 125	1N5817/4GICT-ND	.31	2.28	16.60	1N5817/4GITR-ND	—	79.00/M
			30	25	.55	—	-65 ~ 125	1N5818/4GICT-ND	.31	2.28	16.60	1N5818/4GITR-ND	—	79.00/M
			40	25	.60	—	-65 ~ 125	1N5819/4GICT-ND	.31	2.28	16.60	1N5819/4GITR-ND	—	79.00/M
2	DO-201AD	3.0	20	80	.475	—	-65 ~ 125	1N5820/4GICT-ND	.74	5.40	39.28	1N5820/4GITR-ND	187.00/M	—
			30	80	.500	—	-65 ~ 125	1N5821/4GICT-ND	.74	5.40	39.28	1N5821/4GITR-ND	187.00/M	—
			40	80	.525	—	-65 ~ 125	1N5822/4GICT-ND	.74	5.40	39.28	1N5822/4GITR-ND	187.00/M	—
		5.0	20	150	0.55	—	-65 ~ 125	SB520/4GICT-ND	.47	4.03	33.55	SB520/4GITR-ND	215.00/M	—
			30	150	0.55	—	-65 ~ 125	SB530/4GICT-ND	.47	4.03	33.55	SB530/4GITR-ND	215.00/M	—
			40	150	0.55	—	-65 ~ 125	SB540/4GICT-ND	.47	4.03	33.55	SB540/4GITR-ND	215.00/M	—
			50	150	0.67	—	-65 ~ 125	SB550/4GICT-ND	.54	4.64	38.70	SB550/4GITR-ND	248.00/M	—
			60	150	0.67	—	-65 ~ 125	SB560/4GICT-ND	.54	4.64	38.70	SB560/4GITR-ND	248.00/M	—

Fig.	Package	Max. Avg. Rect. Current (A)	Max. Peak Reverse Voltage (V)	Peak Forward Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Oper. Junction Temp. (°C)	Digi-Key Part No.	Pricing 1	10	100
Silicon and Glass Passivated Bridge Rectifiers										
3	W0G	1.5	50	50	1.0	-55 ~ 150	W005G/1GI-ND	.61	5.19	43.23
			100	50	1.0	-55 ~ 150	W01G/1GI-ND	.61	5.19	43.23
			200	50	1.0	-55 ~ 150	W02G/1GI-ND	.61	5.19	43.23
			400	50	1.0	-55 ~ 150	W04G/1GI-ND	.61	5.19	43.23
			600	50	1.0	-55 ~ 150	W06G/1GI-ND	.61	5.19	43.23
			800	50	1.0	-55 ~ 150	W08G/1GI-ND	.61	5.19	43.23
			1000	50	1.0	-55 ~ 150	W10G/1GI-ND	.61	5.19	43.23
4	KBPM	2.0	50	30	1.1	-55 ~ 165	2KBP005M/1GI-ND	.69	5.89	—
			100	30	1.1	-55 ~ 165	2KBP01M/1GI-ND	.69	5.89	—
			200	30	1.1	-55 ~ 165	2KBP02M/1GI-ND	.69	5.89	—
			400	30	1.1	-55 ~ 165	2KBP04M/1GI-ND	.69	5.89	—
			600	30	1.1	-55 ~ 165	2KBP06M/1GI-ND	.69	5.89	—
			800	30	1.1	-55 ~ 165	2KBP08M/1GI-ND	.69	5.89	—
			1000	30	1.1	-55 ~ 165	2KBP10M/1GI-ND	.69	5.89	—
5	KBL	4.0	50	200	1.1	-50 ~ 150	KBL005/1GI-ND	1.69	15.42	141.00
			100	200	1.1	-50 ~ 150	KBL01/1GI-ND	1.69	15.42	141.00
			200	200	1.1	-50 ~ 150	KBL02/1GI-ND	1.69	15.42	141.00
			400	200	1.1	-50 ~ 150	KBL04/1GI-ND	1.69	15.42	141.00
			600	200	1.1	-50 ~ 150	KBL06/1GI-ND	1.69	15.42	141.00
			800	200	1.1	-50 ~ 150	KBL08/1GI-ND	1.69	15.42	141.00
			1000	200	1.1	-50 ~ 150	KBL10/1GI-ND	1.69	15.42	141.00
6	GBPC6	6.0	50	175	1.0	-55 ~ 150	GBPC6005/1GI-ND	2.45	21.04	175.30
			100	175	1.0	-55 ~ 150	GBPC601/1GI-ND	2.45	21.04	175.30
			200	175	1.0	-55 ~ 150	GBPC602/1GI-ND	2.45	21.04	175.30
			400	175	1.0	-55 ~ 150	GBPC604/1GI-ND	2.45	21.04	175.30
			600	175	1.0	-55 ~ 150	GBPC606/1GI-ND	2.45	21.04	175.30
			800	175	1.0	-55 ~ 150	GBPC608/1GI-ND	2.45	21.04	175.30
			1000	175	1.0	-55 ~ 150	GBPC610/1GI-ND	2.45	21.04	175.30
7	GBPC	12	50	200	1.1	-55 ~ 150	GBPC12005/1GI-ND	5.51	47.21	393.43
			100	200	1.1	-55 ~ 150	GBPC1201/1GI-ND	5.51	47.21	393.43
			200	200	1.1	-55 ~ 150	GBPC1202/1GI-ND	5.51	47.21	393.43
			400	200	1.1	-55 ~ 150	GBPC1204/1GI-ND	5.51	47.21	393.43
			600	200	1.1	-55 ~ 150	GBPC1206/1GI-ND	5.51	47.21	393.43
			800	200	1.1	-55 ~ 150	GBPC1208/1GI-ND	5.51	47.21	393.43
			1000	200	1.1	-55 ~ 150	GBPC1210/1GI-ND	5.51	47.21	393.43
		25	50	300	1.1	-55 ~ 150	GBPC25005/1GI-ND	5.51	47.21	393.43
			100	300	1.1	-55 ~ 150	GBPC2501/1GI-ND	5.51	47.21	393.43
			200	300	1.1	-55 ~ 150	GBPC2502/1GI-ND	5.51	47.21	393.43
			400	300	1.1	-55 ~ 150	GBPC2504/1GI-ND	5.51	47.21	393.43
			600	300	1.1	-55 ~ 150	GBPC2506/1GI-ND	5.51	47.21	393.43
			800	300	1.1	-55 ~ 150	GBPC2508/1GI-ND	5.51	47.21	393.43
			1000	300	1.1	-55 ~ 150	GBPC2510/1GI-ND	5.51	47.21	393.43
		35	50	400	1.1	-55 ~ 150	GBPC35005/1GI-ND	6.37	54.59	454.90
			100	400	1.1	-55 ~ 150	GBPC3501/1GI-ND	6.37	54.59	454.90
			200	400	1.1	-55 ~ 150	GBPC3502/1GI-ND	6.37	54.59	454.90
			400	400	1.1	-55 ~ 150	GBPC3504/1GI-ND	6.37	54.59	454.90
			600	400	1.1	-55 ~ 150	GBPC3506/1GI-ND	6.37	54.59	454.90
			800	400	1.1	-55 ~ 150	GBPC3508/1GI-ND	6.37	54.59	454.90
			1000	400	1.1	-55 ~ 150	GBPC3510/1GI-ND	6.37	54.59	454.90

Fig.	Max. Avg. Rect. Current (A)	Max. Peak Rev. Voltage (V)	Peak Forward Surge Current 8.3ms (A)	Max. Instant. Forward Voltage (V)	Typ. Rev. Recovery Time (µS)	Oper. Junction Temp. (°C)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500	1,800
Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifier — DFS													
8	1.0	200	50	1.1	5.0	-55 ~ 150	DF02S/27GICT-ND	.61	5.19	43.25	DF02S/27GITR-ND	259.50/M	—
		400	50	1.1	5.0	-55 ~ 150	DF04S/27GICT-ND	.61	5.19	43.25	DF04S/27GITR-ND	259.50/M	—
		600	50	1.1	5.0	-55 ~ 150	DF06S/27GICT-ND	.61	5.19	43.25	DF06S/27GITR-ND	259.50/M	—
Surface Mount Schottky Rectifier — DO-214AC													
9	1.0	20	30	0.50	0.5	-65 ~ 125	SS12/1GICT-ND	.19	1.64	13.63	SS12/1GITR-ND	—	81.75/M
		60	30	0.75	0.5	-65 ~ 125	SS16/1GI-ND*	.20	1.69	14.05	—	—	—
Surface Mount Schottky Barrier Rectifier — DO-213AB													
10	1.0	20	30	0.50	0.5	-55 ~ 125	SGL41-20/1GICT-ND	.41	3.47	28.95	SGL41-20/1GITR-ND	173.70/M	—
		40	30	0.50	0.5	-55 ~ 125	SGL41-40/1GICT-ND	.41	3.47	28.95	SGL41-40/1GITR-ND	173.70/M	—
		60	30	0.70	0.5	-55 ~ 150	SGL41-60/2GICT-ND	.41	3.52	29.35	SGL41-60/2GITR-ND	176.10/M	—

* Bulk Pricing

Diodes

Fig.	Max. Peak Reverse Voltage (V)	I_F @ 25°C (A)	I_{FSM} @ 25°C (A)	V_F @ 25°C (V)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		MCC Part No.
						1	10	100	Size	Pricing	
NEW! DO-15 — RoHS Compliant NEW!											
1	50	2.0	60	1.0	RL201-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL201-TP
	100	2.0	60	1.0	RL202-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL202-TP
	200	2.0	60	1.0	RL203-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL203-TP
	400	2.0	60	1.0	RL204-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL204-TP
	600	2.0	60	1.0	RL205-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL205-TP
	800	2.0	60	1.0	RL206-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL206-TP
	1000	2.0	60	1.0	RL207-TPCT-ND	—	.43	3.40	4,000	17.00/M	RL207-TP
	50	2.0	75	0.95	EGP20A-TPCT-ND‡	—	4.00	32.00	4,000	160.00/M	EGP20A-TP
	100	2.0	75	0.95	EGP20B-TPCT-ND‡	—	4.00	32.00	4,000	160.00/M	EGP20B-TP
	200	2.0	75	0.95	EGP20D-TPCT-ND‡	—	4.00	32.00	4,000	160.00/M	EGP20D-TP
	300	2.0	75	1.25	EGP20F-TPCT-ND‡	—	4.00	32.00	4,000	160.00/M	EGP20F-TP
	400	2.0	75	1.25	EGP20G-TPCT-ND‡	—	4.00	32.00	4,000	160.00/M	EGP20G-TP
DO-35 — RoHS Compliant											
2	20	—	15	0.37	SD103CTPMSCT-ND	—	2.25	18.00	10,000	90.00/M	SD103C-TP
DO-41 — RoHS Compliant											
3	20	1.0	25	0.45	1N5817-TPCT-ND ***NEW!***	—	2.00	16.00	5,000	80.00/M	1N5817-TP
	30	1.0	25	0.55	1N5818-TPCT-ND ***NEW!***	—	2.00	16.00	5,000	80.00/M	1N5818-TP
	40	1.0	25	0.60	1N5819-TPCT-ND ***NEW!***	—	2.00	16.00	5,000	80.00/M	1N5819-TP
	60	1.0	30	0.70	SR106-TPCT-ND ***NEW!***	—	2.00	16.00	5,000	80.00/M	SR106-TP
	80	1.0	30	0.85	SR108-TPCT-ND ***NEW!***	—	2.00	16.00	5,000	80.00/M	SR108-TP
	100	1.0	30	0.85	SR1010-TPCT-ND ***NEW!***	—	2.00	16.00	5,000	80.00/M	SR1010-TP
	50	1.0	30	0.95	EGP10A-TPCT-ND‡ ***NEW!***	—	2.25	18.00	5,000	90.00/M	EGP10A-TP
	100	1.0	30	0.95	EGP10B-TPCT-ND‡ ***NEW!***	—	2.25	18.00	5,000	90.00/M	EGP10B-TP
	200	1.0	30	0.95	EGP10D-TPCT-ND‡ ***NEW!***	—	2.25	18.00	5,000	90.00/M	EGP10D-TP
	300	1.0	30	1.25	EGP10F-TPCT-ND‡ ***NEW!***	—	2.25	18.00	5,000	90.00/M	EGP10F-TP
	400	1.0	30	1.25	EGP10G-TPCT-ND‡ ***NEW!***	—	2.25	18.00	5,000	90.00/M	EGP10G-TP
	50	1.0	30	1.1	1N4001-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4001-TP
	100	1.0	30	1.1	1N4002-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4002-TP
	200	1.0	30	1.1	1N4003-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4003-TP
	400	1.0	30	1.1	1N4004-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4004-TP
	600	1.0	30	1.1	1N4005-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4005-TP
	800	1.0	30	1.1	1N4006-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4006-TP
	1000	1.0	30	1.1	1N4007-TPMSCT-ND	—	.43	3.40	5,000	17.00/M	1N4007-TP
	20	2.0	50	0.55	SR202-TPCT-ND ***NEW!***	—	2.25	18.00	5,000	90.00/M	SR202-TP
	30	2.0	50	0.55	SR203-TPCT-ND ***NEW!***	—	2.25	18.00	5,000	90.00/M	SR203-TP
	40	2.0	50	0.55	SR204-TPCT-ND ***NEW!***	—	2.25	18.00	5,000	90.00/M	SR204-TP
	60	2.0	50	0.70	SR206-TPCT-ND ***NEW!***	—	2.25	18.00	5,000	90.00/M	SR206-TP
	80	2.0	50	0.85	SR208-TPCT-ND ***NEW!***	—	2.25	18.00	5,000	90.00/M	SR208-TP
	100	2.0	50	0.85	SR2010-TPCT-ND ***NEW!***	—	2.25	18.00	5,000	90.00/M	SR2010-TP
NEW! DO-201AD — RoHS Compliant NEW!											
4	50	3.0	200	1.0	1N5400-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5400-TP
	100	3.0	200	1.0	1N5401-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5401-TP
	200	3.0	200	1.0	1N5402-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5402-TP
	400	3.0	200	1.0	1N5404-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5404-TP
	600	3.0	200	1.0	1N5406-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5406-TP
	800	3.0	200	1.0	1N5407-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5407-TP
	1000	3.0	200	1.0	1N5408-TPCT-ND	—	1.50	12.00	1,200	60.00/M	1N5408-TP
NEW! DO-201AE — RoHS Compliant NEW!											
5	50	3.0	125	0.95	EGP30A-TPCT-ND‡	—	5.00	40.00	1,250	200.00/M	EGP30A-TP
	100	3.0	125	0.95	EGP30B-TPCT-ND‡	—	5.00	40.00	1,250	200.00/M	EGP30B-TP
	200	3.0	125	0.95	EGP30D-TPCT-ND‡	—	5.00	40.00	1,250	200.00/M	EGP30D-TP
	300	3.0	125	1.25	EGP30F-TPCT-ND‡	—	5.00	40.00	1,250	200.00/M	EGP30F-TP
	400	3.0	125	1.25	EGP30G-TPCT-ND‡	—	5.00	40.00	1,250	200.00/M	EGP30G-TP
DO-214AA											
6	20	1.0	30	0.45	SMB5817MSCT-ND	.42	3.78	31.50	3,000	210.00/M	SMB5817 (SK12)
	40	1.0	30	0.60	SMB5819MSCT-ND	.42	3.78	31.50	—	—	SMB5819 (SK14)
	50	1.0	30	0.72	SMBSR105MSCT-ND	.56	5.04	42.00	—	—	SMBSR105 (SK15)
	80	1.0	30	0.85	SMBSR108MSCT-ND	.56	5.04	42.00	—	—	SMBSR108 (SK18)
	100	1.0	30	0.85	SMBSR1010MSCT-ND	.64	5.76	48.00	—	—	SMBSR1010 (SK110)
	400	2.0	50	1.15	S2GMSCT-ND	—	2.25	18.00	—	—	S2G
	600	2.0	50	1.15	S2JMSCT-ND	—	2.25	18.00	3,000	90.00/M	S2J
	800	2.0	50	1.15	S2KMSCT-ND	—	2.25	18.00	—	—	S2K
	1000	2.0	50	1.15	S2MMSCT-ND	—	2.25	18.00	—	—	S2M
DO-214AA — RoHS Compliant											
6	20	1.0	30	0.45	SK12-TPMSCT-ND	.42	3.78	31.50	3,000	174.00/M	SK12-TP
	30	1.0	30	0.55	SK13-TPMSCT-ND	.40	3.60	30.00	3,000	166.00/M	SK13-TP
	40	1.0	30	0.60	SK14-TPMSCT-ND	.42	3.78	31.50	3,000	174.00/M	SK14-TP
	50	1.0	30	0.72	SK15-TPMSCT-ND	.56	5.04	42.00	3,000	232.00/M	SK15-TP
	60	1.0	30	0.72	SK16-TPMSCT-ND	.56	5.04	42.00	3,000	232.00/M	SK16-TP
	80	1.0	30	0.85	SK18-TPMSCT-ND	.56	5.04	42.00	3,000	232.00/M	SK18-TP
	100	1.0	30	0.85	SK110-TPMSCT-ND	.64	5.76	48.00	3,000	266.00/M	SK110-TP
	20	2.0	50	0.55	SK22-TPCT-ND ***NEW!***	—	6.50	52.00	3,000	260.00/M	SK22-TP
	30	2.0	50	0.55	SK23-TPCT-ND ***NEW!***	—	6.50	52.00	3,000	260.00/M	SK23-TP
	40	2.0	50	0.55	SK24-TPCT-ND ***NEW!***	—	6.50	52.00	3,000	260.00/M	SK24-TP
	50	2.0	50	0.70	SK25-TPCT-ND ***NEW!***	—	6.50	52.00	3,000	260.00/M	SK25-TP
	60	2.0	50	0.70	SK26-TPCT-ND ***NEW!***	—	6.50	52.00	3,000	260.00/M	SK26-TP
	80	2.0	50	0.85	SK28-TPCT-ND ***NEW!***	—	6.50	52.00	3,000	260.00/M	SK28-TP
	100	2.0	50	0.85	SK210-TPCT-ND ***NEW!***	—	6.50	52.00	3,000	260.00/M	SK210-TP
	50	2.0	50	1.15	S2A-TPMSCT-ND	—	2.50	20.00	3,000	100.00/M	S2A-TP
	100	2.0	50	1.15	S2B-TPMSCT-ND	—	2.50	20.00	3,000	100.00/M	S2B-TP
	200	2.0	50	1.15	S2D-TPMSCT-ND	—	2.50	20.00	3,000	100.00/M	S2D-TP
	400	2.0	50	1.15	S2G-TPMSCT-ND	—	2.50	20.00	3,000	100.00/M	S2G-TP
	600	2.0	50	1.15	S2J-TPMSCT-ND	—	3.00	24.00	3,000	120.00/M	S2J-TP
	800	2.0	50	1.15	S2K-TPMSCT-ND	—	3.00	24.00	3,000	120.00/M	S2K-TP
	1000	2.0	50	1.15	S2M-TPMSCT-ND	—	3.00	24.00	3,000	120.00/M	S2M-TP
	20	3.0	100	0.50	SK32B-TPCT-ND ***NEW!***	—	7.50	60.00	3,000	300.00/M	SK32B-TP
	30	3.0	100	0.50	SK33B-TPCT-ND ***NEW!***	—	7.50	60.00	3,000	300.00/M	SK33B-TP
	40	3.0	100	0.50	SK34B-TPCT-ND ***NEW!***	—	7.50	60.00	3,000	300.00/M	SK34B-TP
	50	3.0	100	0.75	SK35B-TPCT-ND ***NEW!***	—	7.50	60.00	3,000	300.00/M	SK35B-TP

* For Tape and Reel part number, change CT-ND to TR-ND

‡ Glass Passivated

Fig. 1 — DO-15 *NEW!*

Dimensions (mm)		
Dim.	Min.	Max.
A	5.80	7.60
B	2.60	3.60
C	0.70	0.90
D	25.40	—

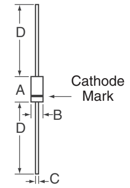

Fig. 2 — DO-35

Dimensions (mm)		
Dim.	Min.	Max.
A	—	4.20
B	—	2.00
C	—	0.52
D	25.40	—

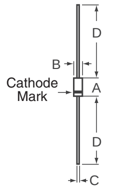

Fig. 3 — DO-41

Dimensions (mm)		
Dim.	Min.	Max.
A	4.10	5.20
B	2.00	2.70
C	0.70	0.90
D	25.40	—

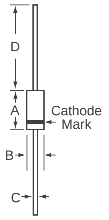

Fig. 4 — DO-201AD *NEW!*

Dimensions (mm)		
Dim.	Min.	Max.
A	—	9.50
B	—	6.40
C	1.20	1.30
D	25.40	—

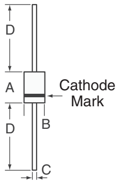

Fig. 5 — DO-201AE *NEW!*

Dimensions (mm)		
Dim.	Min.	Max.
A	—	9.50
B	—	6.40
C	0.96	1.06
D	25.40	—

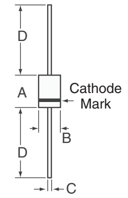

Fig. 6 — DO-214AA, SMT

Dimensions (mm)		
Dim.	Min.	Max.
A	1.98	2.95
B	1.90	2.25
C	0.05	0.20
D	—	0.51
E	0.90	1.40
F	1.65	2.32
G	5.21	5.69
H	4.06	4.57
J	3.30	3.94

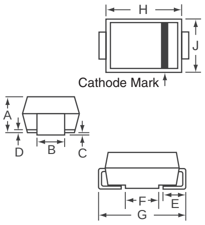

Fig. 7 — DO-214AB, SMT

Dimensions (mm)		
Dim.	Min.	Max.
A	2.00	2.62
B	2.75	3.25
C	0.050‡	0.203
D	0.15	0.31
E	0.76	1.52•
G	7.75	8.13
H	6.60	7.11
J	5.59	6.22

• 1.27mm for S3A thru S3M
‡ 0.051mm for S3A thru S3M

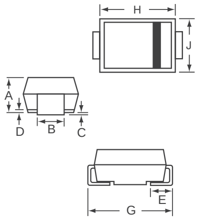

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Fig.	Max. Peak Reverse Voltage (V)	I_F @ 25°C (A)	I_{FSM} @ 25°C (A)	V_F @ 25°C (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel* Size	Pricing	MCC Part No.
6	60	3.0	100	0.75	SK36B-TPCT-ND ***NEW!***	—	7.50	60.00	3,000	300.00/M	SK36B-TP
	80	3.0	100	0.85	SK38B-TPCT-ND ***NEW!***	—	7.50	60.00	3,000	300.00/M	SK38B-TP
	100	3.0	100	0.85	SK310B-TPCT-ND ***NEW!***	—	7.50	60.00	3,000	300.00/M	SK310B-TP
DO-214AB											
7	50	3.0	100	1.20	S3AMSCT-ND	—	5.00	40.00	—	—	S3A
	100	3.0	100	1.20	S3BMSCT-ND	—	5.00	40.00	3,000	200.00/M	S3B
	200	3.0	100	1.20	S3DMSCT-ND	—	5.00	40.00	—	—	S3D
	800	3.0	100	1.20	S3KMSCT-ND	—	5.00	40.00	3,000	200.00/M	S3K
	1000	3.0	100	1.20	S3MMSCT-ND	—	5.00	40.00	—	—	S3M
	20	3.0	100	0.50	SK32MSCT-ND	.72	6.48	54.00	3,000	315.00/M	SK32
	40	3.0	100	0.50	SK34MSCT-ND	.72	6.48	54.00	—	—	SK34
	50	3.0	100	0.75	SK35MSCT-ND	.72	6.48	54.00	—	—	SK35
	80	3.0	100	0.85	SK38MSCT-ND	.72	6.48	54.00	3,000	315.00/M	SK38
DO-214AB — RoHS Compliant											
7	50	3.0	100	1.20	S3A-TPMSCT-ND	—	7.00	56.00	3,000	280.00/M	S3A-TP
	100	3.0	100	1.20	S3B-TPMSCT-ND	—	7.00	56.00	3,000	280.00/M	S3B-TP
	200	3.0	100	1.20	S3D-TPMSCT-ND	—	7.00	56.00	3,000	280.00/M	S3D-TP
	400	3.0	100	1.20	S3G-TPMSCT-ND	—	7.00	56.00	3,000	280.00/M	S3G-TP
	600	3.0	100	1.20	S3J-TPMSCT-ND	—	9.00	72.00	3,000	360.00/M	S3J-TP
	800	3.0	100	1.20	S3K-TPMSCT-ND	—	9.00	72.00	3,000	360.00/M	S3K-TP
	1000	3.0	100	1.20	S3M-TPMSCT-ND	—	9.00	72.00	3,000	360.00/M	S3M-TP
	20	3.0	100	0.50	SK32-TPMSCT-ND	.72	6.48	54.00	3,000	315.00/M	SK32-TP
	30	3.0	100	0.50	SK33-TPMSCT-ND	1.04	9.36	78.00	3,000	455.00/M	SK33-TP
	40	3.0	100	0.50	SK34-TPMSCT-ND	1.04	9.36	78.00	3,000	455.00/M	SK34-TP
	50	3.0	100	0.75	SK35-TPMSCT-ND	1.04	9.36	78.00	3,000	455.00/M	SK35-TP
	60	3.0	100	0.75	SK36-TPMSCT-ND	1.04	9.36	78.00	3,000	455.00/M	SK36-TP
	80	3.0	100	0.85	SK38-TPMSCT-ND	1.04	9.36	78.00	3,000	455.00/M	SK38-TP
NEW! DO-214AC — RoHS Compliant NEW!											
8	50	1.0	30	0.975	ES1A-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1A-TP
	100	1.0	30	0.975	ES1B-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1B-TP
	200	1.0	30	0.975	ES1D-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1D-TP
	400	1.0	30	1.35	ES1G-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1G-TP
	600	1.0	30	1.35	ES1J-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1J-TP
	800	1.0	30	1.35	ES1K-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1K-TP
	1000	1.0	30	1.60	ES1M-TPCT-ND	—	2.25	18.00	3,000	90.00/M	ES1M-TP
	50	1.0	30	1.1	GS1A-TPCT-ND	—	1.50	12.00	3,000	60.00/M	GS1A-TP
	100	1.0	30	1.1	GS1B-TPCT-ND	—	1.50	12.00	3,000	60.00/M	GS1B-TP
	200	1.0	30	1.1	GS1D-TPCT-ND	—	1.50	12.00	3,000	60.00/M	GS1D-TP
	400	1.0	30	1.1	GS1G-TPCT-ND	—	1.50	12.00	3,000	60.00/M	GS1G-TP
	600	1.0	30	1.1	GS1J-TPCT-ND	—	1.50	12.00	3,000	60.00/M	GS1J-TP
	800	1.0	30	1.1	GS1K-TPCT-ND	—	1.50	12.00	3,000	60.00/M	GS1K-TP
	1000	1.0	30	1.1	GS1M-TPCT-ND	—	1.50	12.00	3,000	60.00/M	GS1M-TP
	20	1.0	30	0.45	SS12-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS12-TP
	30	1.0	30	0.55	SS13-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS13-TP
	40	1.0	30	0.60	SS14-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS14-TP
	50	1.0	30	0.70	SS15-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS15-TP
	60	1.0	30	0.70	SS16-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS16-TP
	80	1.0	30	0.85	SS18-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS18-TP
	100	1.0	30	0.85	SS110-TPCT-ND	—	3.00	24.00	3,000	120.00/M	SS110-TP
	20	3.0	100	0.50	SK32A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK32A-TP
	30	3.0	100	0.50	SK33A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK33A-TP
	40	3.0	100	0.50	SK34A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK34A-TP
	50	3.0	100	0.75	SK35A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK35A-TP
	60	3.0	100	0.75	SK36A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK36A-TP
	80	3.0	100	0.85	SK38A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK38A-TP
	100	3.0	100	0.85	SK310A-TPCT-ND	—	7.50	60.00	3,000	300.00/M	SK310A-TP
MELF											
9	200	1.0	30	1.1	DL4003MSCT-ND	—	1.75	14.88	—	—	DL4003
MELF — RoHS Compliant											
9	50	1.0	30	1.1	DL4001-TPMSCT-ND	—	1.95	16.58	5,000	78.00/M	DL4001-TP
	100	1.0	30	1.1	DL4002-TPMSCT-ND	—	1.95	16.58	5,000	78.00/M	DL4002-TP
	200	1.0	30	1.1	DL4003-TPMSCT-ND	—	1.95	16.58	5,000	78.00/M	DL4003-TP
	400	1.0	30	1.1	DL4004-TPMSCT-ND	—	1.95	16.58	5,000	78.00/M	DL4004-TP
	600	1.0	30	1.1	DL4005-TPMSCT-ND	—	2.10	17.85	5,000	84.00/M	DL4005-TP
	800	1.0	30	1.1	DL4006-TPMSCT-ND	—	2.25	19.13	5,000	90.00/M	DL4006-TP
	1000	1.0	30	1.1	DL4007-TPMSCT-ND	—	2.45	20.83	5,000	98.00/M	DL4007-TP
MINIMELF — RoHS Compliant											
10	200	0.25	1.0	1.25	BAV102TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	BAV102-TP
	250	0.25	1.0	1.25	BAV103TPMSCT-ND	—	2.00	16.00	2,500	80.00/M	BAV103-TP
	20	0.35	15	0.37	LLSD103CTPMSCT-ND	—	3.00	24.00	2,500	120.00/M	LLSD103C-TP
	75	0.50	—	1.0	DL4151TPMSCT-ND	—	.60	4.80	2,500	24.00/M	DL4151-TP
R-6											
11	100	6.0	400	0.95	6A1MSCT-ND	.64	4.68	34.00	—	—	6A1
	400	6.0	400	0.95	6A4MSCT-ND	.64	4.68	34.00	—	—	6A4
R-6 — RoHS Compliant											
11	50	6.0	400	0.95	6A05-TPMSCT-ND	.64	4.68	34.00	500	127.50	6A05-TP
	100	6.0	400	0.95	6A1-TPMSCT-ND	.64	4.68	34.00	500	127.50	6A1-TP
	200	6.0	400	0.95	6A2-TPMSCT-ND	.71	5.23	38.00	500	142.50	6A2-TP
	400	6.0	400	0.95	6A4-TPMSCT-ND	.47	3.47	25.20	500	94.50	6A4-TP
	600	6.0	400	0.95	6A6-TPMSCT-ND	.71	5.23	38.00	500	142.50	6A6-TP
	800	6.0	400	0.95	6A8-TPMSCT-ND	.71	5.23	38.00	500	142.50	6A8-TP
	1000	6.0	400	0.95	6A10-TPMSCT-ND	.71	5.23	38.00	500	142.50	6A10-TP
SOD-123 — RoHS Compliant											
12	120	—	1.0	1.25	BAV19WTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV19W-TP
	200	—	1.0	1.25	BAV20WTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV20W-TP
	250	—	1.0	1.25	BAV21WTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV21W-TP

* For Tape and Reel part number, change CT-ND to TR-ND ‡ Glass Passivated

Fig. 8 — DO-214AC *NEW!*

Dimensions (mm)		
Dim.	Min.	Max.
A	1.98	2.95
B	1.70	2.25
C	0.05	0.20
D	—	0.51
E	0.89	1.40
F	1.65	2.45
G	5.21	5.69
H	4.06	4.57
J	2.57	2.84

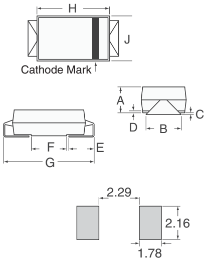

Fig. 9 — MELF, SMT

Dimensions (mm)		
Dim.	Min.	Max.
A	4.83	5.21
B	—	0.56
C	2.41	2.51

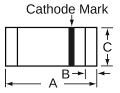

Fig. 10 — MINIMELF, SMT

Dimensions (mm)		
Dim.	Min.	Max.
A	3.40	3.60
B	0.20	0.40
C	1.40	1.50

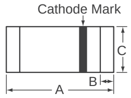

Fig. 11 — R-6

Dimensions (mm)		
Dim.	Min.	Max.
A	8.64	9.14
B	8.64	9.14
C	1.22	1.32
D	25.40	—

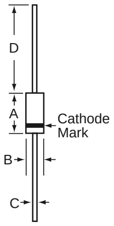

Fig. 12 — SOD-123

Dimensions (mm)		
Dim.	Min.	Max.
A	3.55	3.85
B	2.55	2.85
C	1.40	1.80
D	—	1.35
E	0.30	0.78
G	0.15	—
H	—	0.25
J	—	0.15

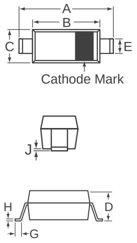

Fig. 13 — SOD-323

Dimensions (mm)		
Dim.	Min.	Max.
A	2.30	2.70
B	1.60	1.80
C	1.15	1.35
D	0.80	1.15
E	0.25	0.40
G	0.10	0.45
H	0.10	0.25
J	—	0.15

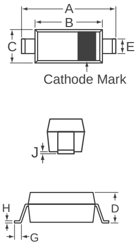

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Fig.	Max. Peak Reverse Voltage (V)	I_F @ 25°C (A)	I_{FSM} @ 25°C (A)	V_F @ 25°C (V)	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		MCC Part No.
						1	10	100	Size	Pricing	
12	20V	0.5	5.5	0.45	MBR0520TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBR0520-TP
	30V	0.5	5.5	0.55	MBR0530TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBR0530-TP
	40V	0.5	5.5	0.55	MBR0540TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBR0540-TP
	60V	0.5	5.5	0.70	MBR0560TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBR0560-TP
	20V	1.0	20	0.50	MBRX120TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBRX120-TP
	30V	1.0	20	0.55	MBRX130TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBRX130-TP
	40V	1.0	20	0.55	MBRX140TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBRX140-TP
	60V	1.0	20	0.72	MBRX160TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	MBRX160-TP
	40V	0.35	1.5	0.37	SD103AWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD103AW-TP
	30V	0.35	1.5	0.37	SD103BWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD103BW-TP
	20V	0.35	1.5	0.37	SD103CWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD103CW-TP
	60V	0.001	2.0	0.41	SD101AWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101AW-TP
	50V	0.001	2.0	0.4	SD101BWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101BW-TP
	40V	0.001	2.0	0.39	SD101CWTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101CW-TP
	30V	0.20	4.0	0.4	BAT42WTPMSCT-ND	—	2.50	20.00	3,000	100.00/M	BAT42W-TP
	30V	0.20	4.0	0.33	BAT43WTPMSCT-ND	—	2.50	20.00	3,000	100.00/M	BAT43W-TP
					SOD-323 — RoHS Compliant						
13	120	0.25	1.0	1.25	BAV19WSTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV19WS-TP
	200	0.25	1.0	1.25	BAV20WSTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV20WS-TP
	250	0.25	1.0	1.25	BAV21WSTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	BAV21WS-TP
	30	0.20	4.0	0.40	BAT42WSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	BAT42WS-TP
	30	0.20	4.0	0.33	BAT43WSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	BAT43WS-TP
	30	—	0.20	0.37	BAT54WS-TPCT-ND	—	1.00	8.00	3,000	40.00/M	BAT54WS-TP
	20	0.25	12.5	0.45	MBRX02520TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX02520-TP
	30	0.25	12.5	0.55	MBRX02530TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX02530-TP
	40	0.25	12.5	0.55	MBRX02540TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX02540-TP
	50	0.25	12.5	0.70	MBRX02550TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX02550-TP
	60	0.25	12.5	0.70	MBRX02560TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX02560-TP
	20	0.5	20	0.45	MBRX0520TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX0520-TP
	30	0.5	20	0.55	MBRX0530TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX0530-TP
	40	0.5	20	0.55	MBRX0540TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX0540-TP
	60	0.5	20	0.70	MBRX0560TPMSCT-ND	—	2.00	16.00	3,000	80.00/M	MBRX0560-TP
	20	0.35	1.5	0.37	SD103CWSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD103CWS-TP
	30	0.35	1.5	0.37	SD103BWSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD103BWS-TP
	40	0.35	1.5	0.37	SD103AWSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD103AWS-TP
	40	0.001	2.0	0.39	SD101CWSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101CWS-TP
	50	0.001	2.0	0.4	SD101BWSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101BWS-TP
	60	0.001	2.0	0.41	SD101AWSTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	SD101AWS-TP
					SOD-523 — RoHS Compliant						
14	30	0.20	0.60	0.32	BAT54WX-TPCT-ND	—	1.00	8.00	3,000	40.00/M	BAT54WX-TP
					SOT-23 — RoHS Compliant						
15	30	0.3	1.0	0.40	BAT54TPMSCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54-TP
	30	0.3	1.0	0.40	BAT54ATPMSCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54A-TP
	30	0.3	1.0	0.40	BAT54CTPMSCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54C-TP
	30	0.3	1.0	0.40	BAT54STPMSCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54S-TP
	40	0.20	—	0.38	BAS40TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS40-TP
	40	0.20	—	0.38	BAS40-04TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS40-04-TP
	40	0.20	—	0.38	BAS40-05TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS40-05-TP
	40	0.20	—	0.38	BAS40-06TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS40-06-TP
	70	0.20	—	0.41	BAS70TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS70-TP
	70	0.20	—	0.41	BAS70-04TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS70-04-TP
	70	0.20	—	0.41	BAS70-05TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS70-05-TP
	70	0.20	—	0.41	BAS70-06TPMSCT-ND	—	1.75	14.00	3,000	70.00/M	BAS70-06-TP
	75	0.50	4.0	0.855	MMBD4448TPMSCT-ND	—	1.00	8.00	3,000	40.00/M	MMBD4448-TP
					SOT-323 — RoHS Compliant						
16	75	0.15	—	1.0	MMBD4148WTTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	MMBD4148WT-TP
	75	0.50	4.0	0.855	MMBD4448WTTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	MMBD4448WT-TP
	40	0.20	—	0.38	BAS40WT-TPCT-ND	—	1.10	8.80	3,000	44.00/M	BAS40WT-TP
	70	—	—	0.41	BAS70WT-TPCT-ND	—	1.10	8.80	3,000	44.00/M	BAS70WT-TP
	30	0.20	0.60	0.32	BAT54WT-TPCT-ND	—	1.10	8.80	3,000	44.00/M	BAT54WT-TP
	30	0.20	0.60	0.32	BAT54AWT-TPCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54AWT-TP
	30	0.20	0.60	0.32	BAT54CWT-TPCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54CWT-TP
	30	0.20	0.60	0.32	BAT54SWT-TPCT-ND	—	1.25	10.00	3,000	50.00/M	BAT54SWT-TP
					SOT-363 — RoHS Compliant						
17	30	0.20	0.60	1.0	BAT54TW-TPCT-ND	—	2.50	20.00	3,000	100.00/M	BAT54TW-TP
	30	0.20	0.60	1.0	BAT54ADW-TPCT-ND ***NEW!***	—	5.00	40.00	3,000	200.00/M	BAT54ADW-TP
	30	0.20	0.60	1.0	BAT54CDW-TPCT-ND ***NEW!***	—	5.00	40.00	3,000	200.00/M	BAT54CDW-TP
	30	0.20	0.60	1.0	BAT54SDW-TPCT-ND ***NEW!***	—	5.00	40.00	3,000	200.00/M	BAT54SDW-TP
	30	0.20	0.60	1.0	BAT54BRW-TPCT-ND ***NEW!***	—	5.00	40.00	3,000	200.00/M	BAT54BRW-TP
	40	—	—	1.0	BAS40DW-04-TPCT-ND ***NEW!***	—	5.00	40.00	3,000	200.00/M	BAS40DW-04-TP
	40	—	—	1.0	BAS40DW-05-TPCT-ND ***NEW!***	—	5.00	40.00	3,000	200.00/M	BAS40DW-05-TP
	40	—	—	1.0	BAS40DW-06-TPCT-ND ***NEW!***	—	5.00	40.00	3,000	200.00/M	BAS40DW-06-TP
	40	—	—	1.0	BAS40BRW-TPCT-ND ***NEW!***	—	6.00	48.00	3,000	240.00/M	BAS40BRW-TP
	40	—	—	1.0	BAS40TW-TPCT-ND	—	2.50	20.00	3,000	100.00/M	BAS40TW-TP
	70	0.07	0.1	1.0	BAS70TW-TPCT-ND ***NEW!***	—	5.00	40.00	3,000	200.00/M	BAS70TW-TP
	70	0.07	0.1	1.0	BAS70DW-04-TPCT-ND ***NEW!***	—	6.00	48.00	3,000	240.00/M	BAS70TW-04-TP
	70	0.07	0.1	1.0	BAS70DW-05-TPCT-ND ***NEW!***	—	6.00	48.00	3,000	240.00/M	BAS70TW-05-TP
	70	0.07	0.1	1.0	BAS70DW-06-TPCT-ND ***NEW!***	—	6.00	48.00	3,000	240.00/M	BAS70TW-06-TP
	70	0.07	0.1	1.0	BAS70BRW-TPCT-ND ***NEW!***	—	7.50	60.00	3,000	300.00/M	BAS70BRW- TP
	75	0.25	4.0	0.855	MMBD4448DWTPMSCT-ND	—	1.00	8.00	3,000	40.00/M	MMBD4448DW-TP
					SOT-523 — RoHS Compliant						
18	40	0.20	—	0.38	BAS40T-TPCT-ND	—	1.50	12.00	3,000	60.00/M	BAS40T-TP
	70	0.07	0.10	0.41	BAS70T-TPCT-ND	—	1.50	12.00	3,000	60.00/M	BAS70T-TP
	30	0.20	0.60	0.32	BAT54T-TPCT-ND	—	1.50	12.00	3,000	60.00/M	BAT54T-TP
	30	0.20	0.60	0.32	BAT54AT-TPCT-ND	—	2.00	16.00	3,000	80.00/M	BAT54AT-TP
	30	0.20	0.60	0.32	BAT54CT-TPCT-ND	—	2.00	16.00	3,000	80.00/M	BAT54CT-TP
	30	0.20	0.60	0.32	BAT54ST-TPCT-ND	—	2.00	16.00	3,000	80.00/M	BAT54ST-TP
					SOT-563 — RoHS Compliant						
19	30	0.20	—	0.40	BAT54VTPMSCT-ND	—	1.50	12.00	3,000	60.00/M	BAT54V-TP
	40	0.20	—	0.38	BAS40VTPMSCT-ND	—	2.00	16.00	3,000	80.00/M	BAS40V-TP
	75	0.50	4.0	0.855	MMBD4448VTPMSCT-ND	—	1.50	12.00	3,000	60.00/M	MMBD4448V-TP

* For Tape and Reel part number, change CT-ND to TR-ND ‡ Glass Passivated

Fig. 14 — SOD-523

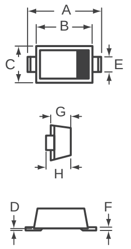

Dimensions (mm)		
Dim.	Min.	Max.
A	1.50	1.70
B	1.10	1.30
C	0.75	0.85
D	0.01	0.07
E	0.25	0.35
F	0.08	0.15
G	0.50	0.70
H	0.51	0.78

Fig. 15 — SOT-23

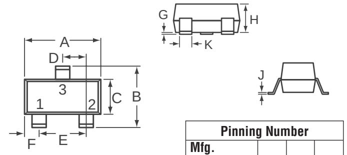

Dimensions (mm)		
Dim.	Min.	Max.
A	2.80	3.04
B	2.10	2.64
C	1.20	1.40
D	0.89	1.03
E	1.78	2.05
F	0.45	0.60
G	0.013	0.100
H	0.89	1.12
J	0.085	0.180
K	0.37	0.51

Pinning Number			
Mfg. Part No.	1	2	3
BAT54	A	—	K
BAT54A	K	K	A
BAT54C	A	A	K
BAT54S	A	K	A/K
BAS40	A	—	K
BAS40-04	A	A/K	K
BAS40-05	A	A	K
BAS40-06	K	K	A
BAS70	A	—	K
BAS70-04	A	A/K	K
BAS70-05	A	A	K
BAS70-06	K	K	A
MMBD4448	A	K	—

Fig. 16 — SOT-323

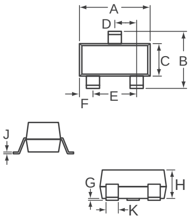

Dimensions (mm)		
Dim.	Min.	Max.
A	1.80	2.20
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
E	1.20	1.40
F	0.30	0.40
G	—	0.10
H	0.90	1.00
J	0.100	0.250
K	0.30	0.40

Fig. 17 — SOT-363

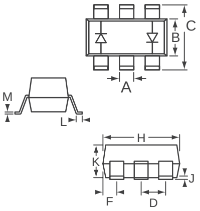

Dimensions (mm)		
Dim.	Min.	Max.
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25

Fig. 18 — SOT-523

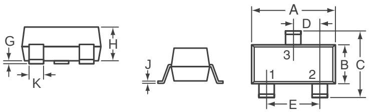

Dimensions (mm)		
Dim.	Min.	Max.
A	1.50	1.70
B	0.75	0.85
C	1.45	1.75
D	(0.50 Nominal)	
E	0.90	1.10
G	—	0.10
H	0.70	0.80
J	0.10	0.20
K	0.25	0.35

Pinning Number			
Mfg. Part No.	1	2	3
BAS40T	A	—	K
BAS70T	A	—	K
BAT54T	A	—	K
BAT54AT	K	A	K
BAT54CT	A	K	A
BAT54ST	A	K	A/K

Fig. 19 — SOT-563

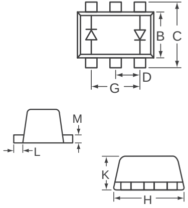

Dimensions (mm)		
Dim.	Min.	Max.
A	0.15	0.30
B	1.10	1.25
C	1.55	1.70
D	(0.50 Nominal)	
G	0.90	1.10
H	1.50	1.70
K	0.56	0.60
L	0.10	0.30
M	0.10	0.18

·M·C·C·
Micro Commercial Components

SW Diodes – Silicon Epitaxial

Fig.	V_R (V)	V_{RM} (V)	I_O (mA)	I_{FSM} (A)	V_F (mV)	Pinning 1	2	3	Digi-Key Part No.	Cut Tape Pricing 10	100	Tape & Reel* Size	Pricing	MCC Part No.
MINIMELF - SMT														
1	50	75	200	4.0	570	—	—	—	DL4150TPMSCT-ND	.60	4.80	2,500	24.00/M	DL4150-TP
	75	100	150	0.500	100	—	—	—	DL4148-TPMSCT-ND	1.10	9.35	2,500	72.00/M	DL4148-TP
	75	100	150	0.500	100	—	—	—	DL4448TPMSCT-ND	.50	4.00	2,500	20.00/M	DL4448-TP
DO-35														
2	75	100	150	2.0	1000	—	—	—	1N4148-TPMSCT-ND	.53	4.20	10,000	14.00/M	1N4148-TP
	75	100	150	0.500	100	—	—	—	1N4448TPMSCT-ND	.33	2.60	10,000	13.00/M	1N4448-TP
	100	100	200	1.0	100	—	—	—	1N914-TPCT-ND ***NEW!***	.30	2.40	10,000	12.00/M	1N914-TP
	100	100	200	1.0	720	—	—	—	1N914B-TPCT-ND ***NEW!***	.30	2.40	10,000	12.00/M	1N914B-TPCT-ND
SOD-123														
3	75	100	150	0.350	100	—	—	—	1N4148WTPMSCT-ND	1.00	8.00	3,000	40.00/M	1N4148W-TP
	75	100	150	0.500	100	—	—	—	1N4448WTPMSCT-ND	1.50	12.00	3,000	60.00/M	1N4448W-TP
	75	75	200	2.0	100	—	—	—	BAS16WTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS16W-TP
SOD-323														
4	100	75	300	2.0	100	—	—	—	1N4148WXTPMSCT-ND	1.00	8.00	3,000	40.00/M	1N4148WX-TP
	75	100	250	2.0	720	—	—	—	1N4448WXTPMSCT-ND	1.50	12.00	3,000	60.00/M	1N4448WX-TP
	75	85	200	2.0	100	—	—	—	BAS16WXTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS16WX-TP
SOT-23-2														
5	75	100	300	1.0	1250	—	—	—	BAS16TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS16-TP
	100	120	200	2.5	1250	K	A	A	BAS19TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS19-TP
	150	200	200	2.5	1250	K	A	A	BAS20TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS20-TP
	200	250	200	2.5	1250	K	A	A	BAS21TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS21-TP
	200	250	200	—	1100	A	K	K	BAS21ATPMSCT-ND	1.25	10.00	3,000	50.00/M	BAS21A-TP
	200	250	200	—	1100	K	A	A	BAS21CTPMSCT-ND	1.25	10.00	3,000	50.00/M	BAS21C-TP
	200	250	200	—	1100	K/A	A	K	BAS21STPMSCT-ND	1.25	10.00	3,000	50.00/M	BAS21S-TP
	75	—	150	1.0	855	K	A	A	BAV70TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAV70-TP
	75	—	150	1.0	855	K/A	A	K	BAV99TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAV99-TP
	75	—	150	1.0	855	A	K	K	BAW56TPMSCT-ND	1.00	8.00	3,000	40.00/M	BAW56-TP
	100	—	150	1.0	820	K/A	A	C	MMBD7000TPMSCT-ND	1.00	8.00	3,000	40.00/M	MMBD7000-TP
	—	—	200	1.0	885	A	—	K	MMBD1501TPMSCT-ND	2.00	16.00	3,000	80.00/M	MMBD1501-TP
	—	—	200	1.0	885	A	K	K/A	MMBD1503TPMSCT-ND	2.00	16.00	3,000	80.00/M	MMBD1503-TP
	—	—	200	1.0	885	A	A	K	MMBD1504TPMSCT-ND	2.00	16.00	3,000	80.00/M	MMBD1504-TP
	—	—	200	1.0	885	A	K	A	MMBD1505TPMSCT-ND	2.00	16.00	3,000	80.00/M	MMBD1505-TP
	75	100	200	1.0	885	A	—	K	MMBD4148TPMSCT-ND	1.00	8.00	3,000	40.00/M	MMBD4148-TP
	75	100	150	1.0	885	K	—	A	MMBD914TPMSCT-ND	1.00	8.00	3,000	40.00/M	MMBD914-TP
SOT-323														
6	75	75	150	2.0	100	—	—	—	BAS16WTTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS16WT-TP
	100	—	200	2.5	1250	K	A	—	BAS19WTTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS19WT-TP
	150	—	200	2.5	1250	K	A	—	BAS20WTTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS20WT-TP
	200	—	200	2.5	1000	K	A	—	BAS21WTTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAS21WT-TP
	75	—	150	1.0	855	K	A	A	BAV70WTTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAV70WT-TP
	75	—	150	1.0	855	K/A	A	K	BAV99WTTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAV99WT-TP
	75	—	150	1.0	855	A	K	K	BAW56WTTPMSCT-ND	1.00	8.00	3,000	40.00/M	BAW56WT-TP
SOT-563														
7	75	100	200	1.0	1250	—	—	—	BAS16VTPMSCT-ND	2.00	16.00	3,000	80.00/M	BAS16V-TP
SOD-523														
8	75	100	150	1.0	715	—	—	—	1N4148XTPMSCT-ND	1.75	14.00	3,000	70.00/M	IN4148X-TP
	75	100	250	2.0	720	—	—	—	1N4448XTPMSCT-ND	2.00	16.00	3,000	80.00/M	IN4448X-TP
	75	75	—	0.5	715	—	—	—	BAS16X-TPCT-ND	.85	6.80	3,000	34.00/M	BAS16X-TP
SOT-363														
9	75	100	150	1.0	715	—	—	—	BAV70DW-TPCT-ND	2.00	16.00	3,000	80.00/M	BAV70DW-TP
	75	100	150	1.0	715	—	—	—	BAW56DW-TPCT-ND	2.00	16.00	3,000	80.00/M	BAW56DW-TP
	75	75	150	—	715	—	—	—	MMBD4148TW-TPCT-ND	2.00	16.00	3,000	80.00/M	MMBD4148TW-TP
	75	—	150	—	1250	—	—	—	BAV99DW-TPCT-ND ***NEW!***	2.75	22.00	3,000	110.00/M	BAV99DW-TP
	80	100	250	2.0	1250	—	—	—	MMBD4448HTW-TPCT-ND ***NEW!***	3.50	28.00	3,000	140.00/M	MMBD4448HTW-TP
	80	100	250	2.0	1250	—	—	—	MMBD4448HCDW-TPCT-ND ***NEW!***	3.50	28.00	3,000	140.00/M	MMBD4448HCDW-TP
	80	100	250	2.0	1250	—	—	—	MMBD4448HADW-TPCT-ND ***NEW!***	3.50	28.00	3,000	140.00/M	MMBD4448HADW-TP
	80	100	250	2.0	1250	—	—	—	MMBD4448HAQW-TPCT-ND ***NEW!***	3.50	28.00	3,000	140.00/M	MMBD4448HAQW-TP
	80	100	250	2.0	1250	—	—	—	MMBD4448HSDW-TPCT-ND ***NEW!***	3.50	28.00	3,000	140.00/M	MMBD4448HSDW-TP
SOT-523														
10	—	85	—	0.5	715	—	—	—	BAS16T-TPCT-ND	1.50	12.00	3,000	60.00/M	BAS16T-TP
	—	85	—	0.5	715	—	—	—	BAW56T-TPCT-ND	1.50	12.00	3,000	60.00/M	BAW56T-TP
	—	85	—	0.5	715	—	—	—	BAV70T-TPCT-ND	1.50	12.00	3,000	60.00/M	BAV70T-TP
	—	85	—	0.5	715	—	—	—	BAV99T-TPCT-ND	1.50	12.00	3,000	60.00/M	BAV99T-TP
	—	250	200	0.5	100	—	—	—	BAS21T-TPCT-ND	1.50	12.00	3,000	60.00/M	BAS21T-TP

***** For Tape and Reel part number, change CT-ND to TR-ND

Fig. 1 — MINIMELF, SMT

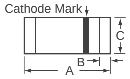

Dimensions (mm)		
Dim.	Min.	Max.
A	3.40	3.60
B	0.20	0.40
C	1.40	1.50

Fig. 2 — DO-35

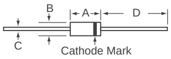

Dimensions (mm)		
Dim.	Min.	Max.
A	—	4.20
B	—	2.00
C	—	0.52
D	25.40	—

Fig. 3 — SOD-123

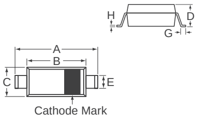

Dimensions (mm)		
Dim.	Min.	Max.
A	3.55	3.85
B	2.55	2.85
C	1.40	1.80
D	—	1.35
E	0.30	0.78
G	0.15	—
H	—	0.25

Fig. 4 — SOD-323

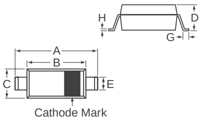

Dimensions (mm)		
Dim.	Min.	Max.
A	2.30	2.70
B	1.60	1.80
C	1.15	1.35
D	0.80	1.15
E	0.25	0.40
G	0.10	0.45
H	0.10	0.25

Fig. 5 — SOT-23-2

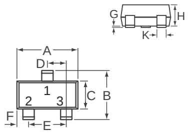

Dimensions (mm)		
Dim.	Min.	Max.
A	2.80	3.04
B	2.10	2.64
C	1.20	1.40
D	0.89	1.03
E	1.78	2.05
F	0.45	0.60
G	0.013	0.100
H	0.89	1.12
K	0.37	0.51

Fig. 6 — SOT-323

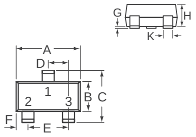

Dimensions (mm)		
Dim.	Min.	Max.
A	1.80	2.20
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
E	1.20	1.40
F	0.30	0.40
G	—	0.100
H	0.90	1.00
K	0.30	0.40

Fig. 7 — SOT-563

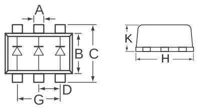

Dimensions (mm)		
Dim.	Min.	Max.
A	0.15	0.30
B	1.10	1.25
C	1.55	1.70
D	(0.50 Nominal)	
G	0.90	1.10
H	1.50	1.70
K	0.56	0.60

Fig. 8 — SOD-523

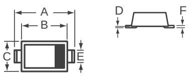

Dimensions (mm)		
Dim.	Min.	Max.
A	1.50	1.70
B	1.10	1.30
C	0.75	0.85
D	0.01	0.07
E	0.25	0.35
F	0.08	0.15

Fig. 9 — SOT-363

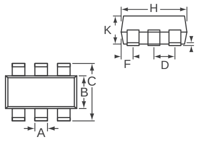

Dimensions (mm)		
Dim.	Min.	Max.
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00

Fig. 10 — SOT-523

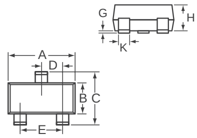

Dimensions (mm)		
Dim.	Min.	Max.
A	1.50	1.70
B	0.75	0.85
C	1.45	1.75
D	(0.50 Nominal)	
E	0.90	1.10
G	—	0.10
H	0.70	0.80
K	0.25	0.35

Microsemi.

Switching Diode Array

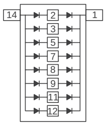

Features: • 8 Isolated lines • Standard SOIC 14 pin Surface Mount Package • UL94V-0 Flammability Classification

Vbr @ Ibr = 100µA (V) Minimum	Ir (µA) Maximum	(V) @ Vr	CAP @ 0 V (pF) Maximum	trr (nS) Maximum	Vf @ If = 100mA (V) Minimum	Maximum	Digi-Key Part No.	Pricing 1	10	100
90	0.200	20	1.5	5.0	1	1.20	MMAD1103E3-ND	7.56	68.04	567.00

Single Phase Bridge Rectifiers

Fig. 1 — RB-15,
1.5 Amp

DIMENSIONS (mm)		
Dim.	**Min.**	**Max.**
A	—	9.10
B	—	4.00
C	25.40	—
D	27.90	—
E	4.60	5.60
F	0.76	0.81

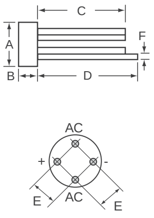

Fig. 2 — RS-4L,
4 Amp

DIMENSIONS (mm)		
Dim.	**Min.**	**Max.**
A	18.50	19.50
B	15.20	16.30
C	19.00	—
D	6.00	6.50
E	4.60	5.60
G	—	2.10
H	1.20	1.30

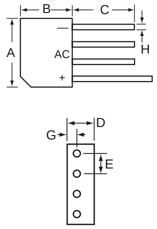

Fig. 3 — DB-1,
1 Amp

DIMENSIONS (mm)		
Dim.	**Min.**	**Max.**
A	9.02	9.27
B	6.22	6.48
C	7.62	8.89
D	3.94	4.19
E	2.92	3.43
F	—	1.52
G	—	0.51
H	4.95	5.21

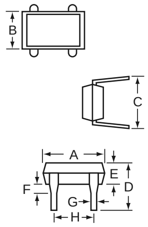

Fig. 4 — BR-6, 8 Amp, 10 Amp
and PB-6, 6 Amp

DIMENSIONS (mm)		
Dim.	**Min.**	**Max.**
A	14.69	15.71
B	5.84	6.86
C	19.10	—
D	10.30	11.30
E	0.97	1.07
G	3.70	—

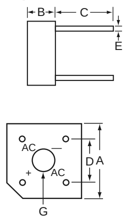

Fig. 5 — MB-35W,
15 Amp, 25 Amp, 35 Amp

DIMENSIONS (mm)		
Dim.	**Min.**	**Max.**
A	28.33	28.83
B	10.85	11.35
C	19.65	—
D	17.10	19.10
E	0.96	1.07
G	4.90	—
H	10.90	11.90

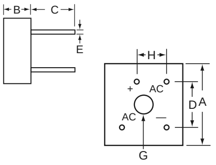

Fig. 6 — MP-50W,
50 Amp

DIMENSIONS (mm)		
Dim.	**Min.**	**Max.**
A	28.40	28.70
B	10.97	11.23
C	19.53	—
D	17.10	19.10
E	0.97	1.07
G	4.90	—
H	10.90	11.90

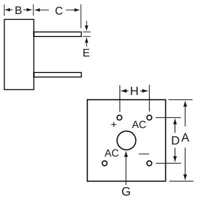

Fig. 7 — MBS-1,
0.5 Amp

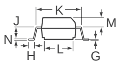

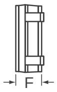

DIMENSIONS (mm)		
Dim.	**Min.**	**Max.**
A	6.40	6.90
B	2.41	2.67
C	3.65	4.10
D	4.55	4.95
E	0.43	0.74
F	2.30	2.70
G	0.10	0.20

DIMENSIONS (mm)		
Dim.	**Min.**	**Max.**
H	0.48	0.96
J	1.47	1.57
K	4.95	5.21
L	2.80	2.90
M	0.99	1.24
N	0.15	0.41

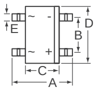

Fig.	Max. Peak Reverse Voltage	I_F @ 25°C	I_{FSM} @ 25°C	V_F @ 25°C	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel Pricing 3,000	MCC Part No.
RB-15 — 1.5 Amp Single Phase Bridge Rectifier										
1	800V	1.5A	50A	1.0V	RB156MS-ND	.60	.53	.45	—	RB156
	1000V	1.5A	50A	1.0V	RB157MS-ND	.60	.53	.45	—	RB157
RB-15 — 1.5 Amp Single Phase Bridge Rectifier — RoHS Compliant										
1	50V	1.5A	50A	1.0V	RB151-BPMS-ND	.52	.46	.39	—	RB151-BP
	100V	1.5A	50A	1.0V	RB152-BPMS-ND	.52	.46	.39	—	RB152-BP
	200V	1.5A	50A	1.0V	RB153-BPMS-ND	.56	.49	.42	—	RB153-BP
	400V	1.5A	50A	1.0V	RB154-BPMS-ND	.60	.53	.45	—	RB154-BP
	600V	1.5A	50A	1.0V	RB155-BPMS-ND	.60	.53	.45	—	RB155-BP
	800V	1.5A	50A	1.0V	RB156-BPMS-ND	.64	.56	.48	—	RB156-BP
	1000V	1.5A	50A	1.0V	RB157-BPMS-ND	.76	.67	.57	—	RB157-BP
RS-4L — 4 Amp Single Phase Bridge Rectifier										
2	50V	4.0A	200A	1.0V	RS401LMS-ND	1.40	1.23	1.05	—	RS401L
	100V	4.0A	200A	1.0V	RS402LMS-ND	1.40	1.23	1.05	—	RS402L
	400V	4.0A	200A	1.0V	RS404LMS-ND	1.40	1.23	1.05	—	RS404L
RS-4L — 4 Amp Single Phase Bridge Rectifier — RoHS Compliant										
2	50V	4.0A	200A	1.0V	RS401L-BPMS-ND	1.40	1.23	1.05	—	RS401L-BP
	100V	4.0A	200A	1.0V	RS402L-BPMS-ND	1.56	1.37	1.17	—	RS402L-BP
	200V	4.0A	200A	1.0V	RS403L-BPMS-ND	1.56	1.37	1.17	—	RS403L-BP
	400V	4.0A	200A	1.0V	RS404L-BPMS-ND	1.40	1.23	1.05	—	RS404L-BP
	600V	4.0A	200A	1.0V	RS405L-BPMS-ND	1.40	1.23	1.05	—	RS405L-BP
	800V	4.0A	200A	1.0V	RS406L-BPMS-ND	1.92	1.68	1.44	—	RS406L-BP
	1000V	4.0A	200A	1.0V	RS407L-BPMS-ND	1.40	1.23	1.05	—	RS407L-BP
DB-1 — 1 Amp Single Phase Glass Passivated Bridge Rectifier										
3	100V	1.0A	50A	1.1V	DB102MS-ND	.52	.50	.39	—	DB102
DB-1 — 1 Amp Single Phase Glass Passivated Bridge Rectifier — RoHS Compliant										
3	50V	1.0A	50A	1.1V	DB101-BPMS-ND	.52	.50	.39	—	DB101-BP
	100V	1.0A	50A	1.1V	DB102-BPMS-ND	.52	.50	.39	—	DB102-BP
	200V	1.0A	50A	1.1V	DB103-BPMS-ND	.52	.50	.39	—	DB103-BP
	400V	1.0A	50A	1.1V	DB104-BPMS-ND	.60	.58	.45	—	DB104-BP
	600V	1.0A	50A	1.1V	DB105-BPMS-ND	.64	.62	.48	—	DB105-BP
	800V	1.0A	50A	1.1V	DB106-BPMS-ND	.72	.69	.54	—	DB106-BP
	1000V	1.0A	50A	1.1V	DB107-BPMS-ND	.80	.77	.60	—	DB107-BP
BR-6 — 8 Amp Single Phase Bridge Rectifier										
4	200V	8.0A	125A	1.0V	MB82MS-ND	2.20	1.93	1.65	—	MB82
	400V	8.0A	125A	1.0V	MB84MS-ND	2.20	1.93	1.65	—	MB84
	800V	8.0A	125A	1.0V	MB88MS-ND	2.20	1.93	1.65	—	MB88
BR-6 — 8 Amp Single Phase Bridge Rectifier — RoHS Compliant										
4	50V	8.0A	125A	1.0V	MB805-BPMS-ND	2.20	1.93	1.65	—	MB805-BP
	100V	8.0A	125A	1.0V	MB81-BPMS-ND	2.20	1.93	1.65	—	MB81-BP
	200V	8.0A	125A	1.0V	MB82-BPMS-ND	2.20	1.93	1.65	—	MB82-BP
	400V	8.0A	125A	1.0V	MB84-BPMS-ND	2.20	1.93	1.65	—	MB84-BP
	600V	8.0A	125A	1.0V	MB86-BPMS-ND	2.20	1.93	1.65	—	MB86-BP
	800V	8.0A	125A	1.0V	MB88-BPMS-ND	2.20	1.93	1.65	—	MB88-BP
	1000V	8.0A	125A	1.0V	MB810-BPMS-ND	2.20	1.93	1.65	—	MB810-BP
BR-6 — 10 Amp Single Phase Bridge Rectifier — RoHS Compliant										
4	50V	10A	150A	1.1V	MB1005-BPMS-ND	2.20	1.93	1.65	—	MB1005-BP
	100V	10A	150A	1.1V	MB101-BPMS-ND	2.20	1.93	1.65	—	MB101-BP
	200V	10A	150A	1.1V	MB102-BPMS-ND	2.20	1.93	1.65	—	MB102-BP
4	400V	10A	150A	1.1V	MB104-BPMS-ND	2.40	2.10	1.80	—	MB104-BP
	600V	10A	150A	1.1V	MB106-BPMS-ND	2.80	2.45	2.10	—	MB106-BP
	800V	10A	150A	1.1V	MB108-BPMS-ND	2.80	2.45	2.10	—	MB108-BP
	1000V	10A	150A	1.1V	MB1010-BPMS-ND	3.00	2.63	2.25	—	MB1010-BP
PB-6 — 6 Amp Single Phase Bridge Rectifier — RoHS Compliant										
4	50V	6.0A	125A	1.1V	PB605-BPMS-ND	1.68	1.47	1.26	—	PB605-BP
	100V	6.0A	125A	1.1V	PB61-BPMS-ND	1.68	1.47	1.26	—	PB61-BP
	200V	6.0A	125A	1.1V	PB62-BPMS-ND	1.76	1.54	1.32	—	PB62-BP
	400V	6.0A	125A	1.1V	PB64-BPMS-ND	1.76	1.54	1.32	—	PB64-BP
	600V	6.0A	125A	1.1V	PB66-BPMS-ND	1.60	1.40	1.20	—	PB66-BP
	800V	6.0A	125A	1.1V	PB68-BPMS-ND	1.92	1.68	1.44	—	PB68-BP
	1000V	6.0A	125A	1.1V	PB610-BPMS-ND	2.20	1.93	1.65	—	PB610-BP
MB-35W — 15 Amp Single Phase Bridge Rectifier										
5	50V	15A	300A	1.1V	MB1505WMS-ND	4.40	3.85	3.30	—	MB1505W
	100V	15A	300A	1.1V	MB151WMS-ND	4.40	3.85	3.30	—	MB151W
	400V	15A	300A	1.1V	MB154WMS-ND	4.40	3.85	3.30	—	MB154W
	800V	15A	300A	1.1V	MB158WMS-ND	4.60	4.03	3.45	—	MB158W
	1000V	15A	300A	1.1V	MB1510WMS-ND	4.60	4.03	3.45	—	MB1510W
MB-35W — 15 Amp Single Phase Bridge Rectifier — RoHS Compliant										
5	50V	15A	300A	1.1V	MB1505W-BPMS-ND	4.00	3.50	3.00	—	MB1505W-BP
	100V	15A	300A	1.1V	MB151W-BPMS-ND	4.40	3.85	3.30	—	MB151W-BP
	200V	15A	300A	1.1V	MB152W-BPMS-ND	4.20	3.68	3.15	—	MB152W-BP
	400V	15A	300A	1.1V	MB154W-BPMS-ND	4.40	3.85	3.30	—	MB154W-BP
	600V	15A	300A	1.1V	MB156W-BPMS-ND	4.60	4.03	3.45	—	MB156W-BP
	800V	15A	300A	1.1V	MB158W-BPMS-ND	5.00	4.38	3.75	—	MB158W-BP
	1000V	15A	300A	1.1V	MB1510W-BPMS-ND	5.00	4.38	3.75	—	MB1510W-BP
MB-35W — 25 Amp Single Phase Bridge Rectifier										
5	50V	25A	300A	1.1V	MB2505WMS-ND	4.40	3.85	3.30	—	MB2505W
	100V	25A	300A	1.1V	MB251WMS-ND	4.40	3.85	3.30	—	MB251W
	400V	25A	300A	1.1V	MB254WMS-ND	4.60	4.03	3.45	—	MB254W
	600V	25A	300A	1.1V	MB256WMS-ND	4.80	4.20	3.60	—	MB256W
	800V	25A	300A	1.1V	MB258WMS-ND	4.80	4.20	3.60	—	MB258W
	1000V	25A	300A	1.1V	MB2510WMS-ND	5.20	4.55	3.90	—	MB2510W
MB-35W — 25 Amp Single Phase Bridge Rectifier — RoHS Compliant										
5	50V	25A	300A	1.1V	MB2505W-BPMS-ND	4.40	3.85	3.30	—	MB2505W-BP
	100V	25A	300A	1.1V	MB251W-BPMS-ND	4.40	3.85	3.30	—	MB251W-BP
	200V	25A	300A	1.1V	MB252W-BPMS-ND	4.60	4.03	3.45	—	MB252W-BP
	400V	25A	300A	1.1V	MB254W-BPMS-ND	4.84	4.24	3.63	—	MB254W-BP
	600V	25A	300A	1.1V	MB256W-BPMS-ND	4.80	4.20	3.60	—	MB256W-BP
	800V	25A	300A	1.1V	MB258W-BPMS-ND	5.00	4.38	3.75	—	MB258W-BP
	1000V	25A	300A	1.1V	MB2510W-BPMS-ND	5.20	4.55	3.90	—	MB2510W-BP
MB-35W — 35 Amp Single Phase Bridge Rectifier										
5	50V	35A	300A	1.1V	MB3505WMS-ND	4.80	4.20	3.60	—	MB3505W
	100V	35A	300A	1.1V	MB351WMS-ND	4.80	4.20	3.60	—	MB351W
	600V	35A	300A	1.1V	MB356WMS-ND	5.00	4.38	3.75	—	MB356W
	800V	35A	300A	1.1V	MB358WMS-ND	5.20	4.55	3.90	—	MB358W
MB-35W — 35 Amp Single Phase Bridge Rectifier — RoHS Compliant										
5	50V	35A	300A	1.1V	MB3505W-BPMS-ND	5.40	4.73	4.05	—	MB3505W-BP
	100V	35A	300A	1.1V	MB351W-BPMS-ND	4.80	4.20	3.60	—	MB351W-BP
	200V	35A	300A	1.1V	MB352W-BPMS-ND	4.80	4.20	3.60	—	MB352W-BP
	400V	35A	300A	1.1V	MB354W-BPMS-ND	5.00	4.38	3.75	—	MB354W-BP
	600V	35A	300A	1.1V	MB356W-BPMS-ND	5.00	4.38	3.75	—	MB356W-BP

† For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Single Phase Bridge Rectifiers *(Cont.)*

Fig.	Max. Peak Reverse Voltage	I_F @ 25°C	I_{FSM} @ 25°C	V_F @ 25°C	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel Pricing 3,000	MCC Part No.
5	800V	35A	300A	1.1V	MB358W-BPMS-ND	5.20	4.55	3.90	—	MB358W-BP
	1000V	35A	300A	1.1V	MB3510W-BPMS-ND	5.60	4.90	4.20	—	MB3510W-BP
MP-50W — 50 Amp Single Phase Bridge Rectifier										
6	50V	50A	400A	1.2V	MP5005WMS-ND	6.40	5.60	4.80	—	MP5005W
	100V	50A	400A	1.2V	MP501WMS-ND	6.40	5.60	4.80	—	MP501W
	400V	50A	400A	1.2V	MP504WMS-ND	6.40	5.60	4.80	—	MP504W
	600V	50A	400A	1.2V	MP506WMS-ND	6.80	5.95	5.10	—	MP506W
	800V	50A	400A	1.2V	MP508WMS-ND	6.80	5.95	5.10	—	MP508W
MP-50W — 50 Amp Single Phase Bridge Rectifier — RoHS Compliant										
6	50V	50A	400A	1.2V	MP5005W-BPMS-ND	6.40	5.60	4.80	—	MP5005W-BP
	100V	50A	400A	1.2V	MP501W-BPMS-ND	6.40	5.60	4.80	—	MP501W-BP
6	200V	50A	400A	1.2V	MP502W-BPMS-ND	6.40	5.60	4.80	—	MP502W-BP
	400V	50A	400A	1.2V	MP504W-BPMS-ND	6.40	5.60	4.80	—	MP504W-BP
	600V	50A	400A	1.2V	MP506W-BPMS-ND	6.80	5.95	5.10	—	MP506W-BP
	800V	50A	400A	1.2V	MP508W-BPMS-ND	6.80	5.95	5.10	—	MP508W-BP
	1000V	50A	400A	1.2V	MP5010W-BPMS-ND	7.96	6.97	5.97	—	MP5010W-BP
MBS-1 — 0.5 Amp Single Phase Glass Passivated Bridge Rectifier — RoHS Compliant										
7	100V	0.5A	30A	1.0V	MB1S-TPMSCT-ND†	—	.40	.32	160.00/M	MB1S-TP
	200V	0.5A	30A	1.0V	MB2S-TPMSCT-ND†	—	.40	.32	160.00/M	MB2S-TP
	400V	0.5A	30A	1.0V	MB4S-TPMSCT-ND†	—	.40	.32	160.00/M	MB4S-TP
	600V	0.5A	30A	1.0V	MB6S-TPMSCT-ND†	—	.40	.32	160.00/M	MB6S-TP

† For Tape and Reel part number, change CT-ND to TR-ND.

NEW! Zener Diodes

RoHS COMPLIANT

Fig. 1 – **DO-35**

DIMENSIONS - (mm)		
Dim.	**Min.**	**Max.**
A	—	4.20
B	—	2.00
C	—	0.52
D	25.40	—

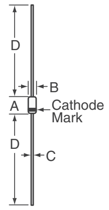

Fig. 2 – **DO-41G**

DIMENSIONS - (mm)		
Dim.	**Min.**	**Max.**
A	4.10	7.60
B	2.00	3.60
C	0.70	0.90
D	25.40	—

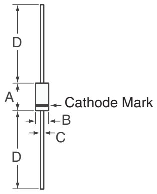

Fig. 3 – **DO-214AC**

DIMENSIONS - (mm)		
Dim.	**Min.**	**Max.**
A	1.27	1.63
B	4.80	5.59
C	4.00	4.60
D	2.25	2.92

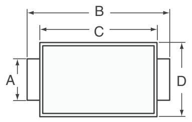

Zener Volt. V_Z (V)	Test Curr. I_{ZT} (mA)	Max. Dynamic Imp. Z_{ZT} @ I_{ZT} (Ω)	Digi-Key Part No	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing
Fig. 1 – DO-35, .5W									
2.4	20	30	1N5221B-TPCT-ND	.75	6.00	45.00	1N5221B-TPTR-ND	10,000	30.00/M
2.5	20	30	1N5222B-TPCT-ND	.75	6.00	45.00	1N5222B-TPTR-ND	10,000	30.00/M
2.7	20	30	1N5223B-TPCT-ND	.75	6.00	45.00	1N5223B-TPTR-ND	10,000	30.00/M
2.8	20	30	1N5224B-TPCT-ND	.75	6.00	45.00	1N5224B-TPTR-ND	10,000	30.00/M
3.0	20	29	1N5225B-TPCT-ND	.75	6.00	45.00	1N5225B-TPTR-ND	10,000	30.00/M
3.3	20	28	1N5226B-TPCT-ND	.75	6.00	45.00	1N5226B-TPTR-ND	10,000	30.00/M
3.6	20	24	1N5227B-TPCT-ND	.75	6.00	45.00	1N5227B-TPTR-ND	10,000	30.00/M
3.9	20	23	1N5228B-TPCT-ND	.75	6.00	45.00	1N5228B-TPTR-ND	10,000	30.00/M
4.3	20	22	1N5229B-TPCT-ND	.75	6.00	45.00	1N5229B-TPTR-ND	10,000	30.00/M
4.7	20	19	1N5230B-TPCT-ND	.75	6.00	45.00	1N5230B-TPTR-ND	10,000	30.00/M
5.1	20	17	1N5231B-TPCT-ND	.75	6.00	45.00	1N5231B-TPTR-ND	10,000	30.00/M
5.6	20	11	1N5232B-TPCT-ND	.75	6.00	45.00	1N5232B-TPTR-ND	10,000	30.00/M
6.0	20	7.0	1N5233B-TPCT-ND	.75	6.00	45.00	1N5233B-TPTR-ND	10,000	30.00/M
6.2	20	7.0	1N5234B-TPCT-ND	.75	6.00	45.00	1N5234B-TPTR-ND	10,000	30.00/M
6.8	20	5.0	1N5235B-TPCT-ND	.75	6.00	45.00	1N5235B-TPTR-ND	10,000	30.00/M
7.5	20	6.0	1N5236B-TPCT-ND	.75	6.00	45.00	1N5236B-TPTR-ND	10,000	30.00/M
8.2	20	8.0	1N5237B-TPCT-ND	.75	6.00	45.00	1N5237B-TPTR-ND	10,000	30.00/M
8.7	20	8.0	1N5238B-TPCT-ND	.75	6.00	45.00	1N5238B-TPTR-ND	10,000	30.00/M
9.1	20	10	1N5239B-TPCT-ND	.75	6.00	45.00	1N5239B-TPTR-ND	10,000	30.00/M
10	20	17	1N5240B-TPCT-ND	.75	6.00	45.00	1N5240B-TPTR-ND	10,000	30.00/M
11	20	22	1N5241B-TPCT-ND	.75	6.00	45.00	1N5241B-TPTR-ND	10,000	30.00/M
12	20	30	1N5242B-TPCT-ND	.75	6.00	45.00	1N5242B-TPTR-ND	10,000	30.00/M
13	9.5	13	1N5243B-TPCT-ND	.75	6.00	45.00	1N5243B-TPTR-ND	10,000	30.00/M
14	9.0	15	1N5244B-TPCT-ND	.75	6.00	45.00	1N5244B-TPTR-ND	10,000	30.00/M
15	8.5	16	1N5245B-TPCT-ND	.75	6.00	45.00	1N5245B-TPTR-ND	10,000	30.00/M
16	7.8	17	1N5246B-TPCT-ND	.75	6.00	45.00	1N5246B-TPTR-ND	10,000	30.00/M
17	7.4	19	1N5247B-TPCT-ND	.75	6.00	45.00	1N5247B-TPTR-ND	10,000	30.00/M
18	7.0	21	1N5248B-TPCT-ND	.75	6.00	45.00	1N5248B-TPTR-ND	10,000	30.00/M
19	6.6	23	1N5249B-TPCT-ND	.75	6.00	45.00	1N5249B-TPTR-ND	10,000	30.00/M
20	6.2	25	1N5250B-TPCT-ND	.75	6.00	45.00	1N5250B-TPTR-ND	10,000	30.00/M
22	5.6	29	1N5251B-TPCT-ND	.75	6.00	45.00	1N5251B-TPTR-ND	10,000	30.00/M
24	5.2	33	1N5252B-TPCT-ND	.75	6.00	45.00	1N5252B-TPTR-ND	10,000	30.00/M
25	5.0	35	1N5253B-TPCT-ND	.75	6.00	45.00	1N5253B-TPTR-ND	10,000	30.00/M
27	4.6	41	1N5254B-TPCT-ND	.75	6.00	45.00	1N5254B-TPTR-ND	10,000	30.00/M
28	4.5	44	1N5255B-TPCT-ND	.75	6.00	45.00	1N5255B-TPTR-ND	10,000	30.00/M
30	4.2	49	1N5256B-TPCT-ND	.75	6.00	45.00	1N5256B-TPTR-ND	10,000	30.00/M
33	3.8	58	1N5257B-TPCT-ND	.75	6.00	45.00	1N5257B-TPTR-ND	10,000	30.00/M
36	3.4	70	1N5258B-TPCT-ND	.75	6.00	45.00	1N5258B-TPTR-ND	10,000	30.00/M
39	3.2	80	1N5259B-TPCT-ND	.75	6.00	45.00	1N5259B-TPTR-ND	10,000	30.00/M
43	3.0	93	1N5260B-TPCT-ND	1.00	8.00	60.00	1N5260B-TPTR-ND	10,000	40.00/M
47	2.7	105	1N5261B-TPCT-ND	1.00	8.00	60.00	1N5261B-TPTR-ND	10,000	40.00/M
51	2.5	125	1N5262B-TPCT-ND	1.00	8.00	60.00	1N5262B-TPTR-ND	10,000	40.00/M
56	2.2	150	1N5263B-TPCT-ND	1.00	8.00	60.00	1N5263B-TPTR-ND	10,000	40.00/M
60	2.1	170	1N5264B-TPCT-ND	1.00	8.00	60.00	1N5264B-TPTR-ND	10,000	40.00/M
62	2.0	185	1N5265B-TPCT-ND	1.00	8.00	60.00	1N5265B-TPTR-ND	10,000	40.00/M
68	1.8	230	1N5266B-TPCT-ND	1.00	8.00	60.00	1N5266B-TPTR-ND	10,000	40.00/M
75	1.7	270	1N5267B-TPCT-ND	1.00	8.00	60.00	1N5267B-TPTR-ND	10,000	40.00/M
Fig. 2 – DO-41G, 1W									
3.3	76	10	1N4728A-TPCT-ND	1.00	8.00	60.00	1N4728A-TPTR-ND	5,000	40.00/M
3.6	69	10	1N4729A-TPCT-ND	1.00	8.00	60.00	1N4729A-TPTR-ND	5,000	40.00/M
3.9	64	9.0	1N4730A-TPCT-ND	1.00	8.00	60.00	1N4730A-TPTR-ND	5,000	40.00/M
4.3	58	9.0	1N4731A-TPCT-ND	1.00	8.00	60.00	1N4731A-TPTR-ND	5,000	40.00/M
4.7	53	8.0	1N4732A-TPCT-ND	1.00	8.00	60.00	1N4732A-TPTR-ND	5,000	40.00/M
5.1	49	7.0	1N4733A-TPCT-ND	1.00	8.00	60.00	1N4733A-TPTR-ND	5,000	40.00/M
5.6	45	5.0	1N4734A-TPCT-ND	1.00	8.00	60.00	1N4734A-TPTR-ND	5,000	40.00/M
6.2	41	2.0	1N4735A-TPCT-ND	1.00	8.00	60.00	1N4735A-TPTR-ND	5,000	40.00/M
6.8	37	3.5	1N4736A-TPCT-ND	1.00	8.00	60.00	1N4736A-TPTR-ND	5,000	40.00/M
7.5	34	4.0	1N4737A-TPCT-ND	1.00	8.00	60.00	1N4737A-TPTR-ND	5,000	40.00/M
8.2	31	4.5	1N4738A-TPCT-ND	1.00	8.00	60.00	1N4738A-TPTR-ND	5,000	40.00/M
9.1	28	5.0	1N4739A-TPCT-ND	1.00	8.00	60.00	1N4739A-TPTR-ND	5,000	40.00/M
10	25	7.0	1N4740A-TPCT-ND	1.00	8.00	60.00	1N4740A-TPTR-ND	5,000	40.00/M
11	23	8.0	1N4741A-TPCT-ND	1.00	8.00	60.00	1N4741A-TPTR-ND	5,000	40.00/M
12	21	9.0	1N4742A-TPCT-ND	1.00	8.00	60.00	1N4742A-TPTR-ND	5,000	40.00/M
13	19	10	1N4743A-TPCT-ND	1.00	8.00	60.00	1N4743A-TPTR-ND	5,000	40.00/M
15	17	14	1N4744A-TPCT-ND	1.00	8.00	60.00	1N4744A-TPTR-ND	5,000	40.00/M
16	15.5	16	1N4745A-TPCT-ND	1.00	8.00	60.00	1N4745A-TPTR-ND	5,000	40.00/M
18	14	20	1N4746A-TPCT-ND	1.00	8.00	60.00	1N4746A-TPTR-ND	5,000	40.00/M
20	12.5	22	1N4747A-TPCT-ND	1.00	8.00	60.00	1N4747A-TPTR-ND	5,000	40.00/M
22	11.5	23	1N4748A-TPCT-ND	1.00	8.00	60.00	1N4748A-TPTR-ND	5,000	40.00/M
24	10.5	25	1N4749A-TPCT-ND	1.00	8.00	60.00	1N4749A-TPTR-ND	5,000	40.00/M
27	9.5	35	1N4750A-TPCT-ND	1.00	8.00	60.00	1N4750A-TPTR-ND	5,000	40.00/M
30	8.5	40	1N4751A-TPCT-ND	1.00	8.00	60.00	1N4751A-TPTR-ND	5,000	40.00/M
33	7.5	45	1N4752A-TPCT-ND	1.00	8.00	60.00	1N4752A-TPTR-ND	5,000	40.00/M
36	7.0	50	1N4753A-TPCT-ND	1.00	8.00	60.00	1N4753A-TPTR-ND	5,000	40.00/M
39	6.5	60	1N4754A-TPCT-ND	1.00	8.00	60.00	1N4754A-TPTR-ND	5,000	40.00/M
43	6.0	70	1N4755A-TPCT-ND	1.75	14.00	105.00	1N4755A-TPTR-ND	5,000	70.00/M
47	5.5	80	1N4756A-TPCT-ND	1.75	14.00	105.00	1N4756A-TPTR-ND	5,000	70.00/M
51	5.0	95	1N4757A-TPCT-ND	1.75	14.00	105.00	1N4757A-TPTR-ND	5,000	70.00/M
56	4.5	110	1N4758A-TPCT-ND	1.75	14.00	105.00	1N4758A-TPTR-ND	5,000	70.00/M
62	4.0	125	1N4759A-TPCT-ND	1.75	14.00	105.00	1N4759A-TPTR-ND	5,000	70.00/M
68	3.7	150	1N4760A-TPCT-ND	1.75	14.00	105.00	1N4760A-TPTR-ND	5,000	70.00/M
75	3.3	175	1N4761A-TPCT-ND	1.75	14.00	105.00	1N4761A-TPTR-ND	5,000	70.00/M
Fig. 3 – DO-214AC, 1W									
6.2	41	2.0	SMAJ4735A-TPCT-ND	2.75	22.00	165.00	SMAJ4735A-TPTR-ND	7,500	110.00/M
6.8	37	3.5	SMAJ4736A-TPCT-ND	2.75	22.00	165.00	SMAJ4736A-TPTR-ND	7,500	110.00/M
7.5	34	4.0	SMAJ4737A-TPCT-ND	2.75	22.00	165.00	SMAJ4737A-TPTR-ND	7,500	110.00/M
8.2	31	4.5	SMAJ4738A-TPCT-ND	2.75	22.00	165.00	SMAJ4738A-TPTR-ND	7,500	110.00/M
9.1	28	5.0	SMAJ4739A-TPCT-ND	2.75	22.00	165.00	SMAJ4739A-TPTR-ND	7,500	110.00/M
10	25	7.0	SMAJ4740A-TPCT-ND	2.75	22.00	165.00	SMAJ4740A-TPTR-ND	7,500	110.00/M
11	23	8.0	SMAJ4741A-TPCT-ND	2.75	22.00	165.00	SMAJ4741A-TPTR-ND	7,500	110.00/M
12	21	9.0	SMAJ4742A-TPCT-ND	2.75	22.00	165.00	SMAJ4742A-TPTR-ND	7,500	110.00/M
13	19	10	SMAJ4743A-TPCT-ND	2.75	22.00	165.00	SMAJ4743A-TPTR-ND	7,500	110.00/M
15	17	14	SMAJ4744A-TPCT-ND	2.75	22.00	165.00	SMAJ4744A-TPTR-ND	7,500	110.00/M
16	15.5	16	SMAJ4745A-TPCT-ND	2.75	22.00	165.00	SMAJ4745A-TPTR-ND	7,500	110.00/M
18	14	20	SMAJ4746A-TPCT-ND	2.75	22.00	165.00	SMAJ4746A-TPTR-ND	7,500	110.00/M
20	12.5	22	SMAJ4747A-TPCT-ND	2.75	22.00	165.00	SMAJ4747A-TPTR-ND	7,500	110.00/M
22	11.5	23	SMAJ4748A-TPCT-ND	2.75	22.00	165.00	SMAJ4748A-TPTR-ND	7,500	110.00/M
24	10.5	25	SMAJ4749A-TPCT-ND	2.75	22.00	165.00	SMAJ4749A-TPTR-ND	7,500	110.00/M
27	9.5	35	SMAJ4750A-TPCT-ND	2.75	22.00	165.00	SMAJ4750A-TPTR-ND	7,500	110.00/M
30	8.5	40	SMAJ4751A-TPCT-ND	2.75	22.00	165.00	SMAJ4751A-TPTR-ND	7,500	110.00/M
33	7.5	45	SMAJ4752A-TPCT-ND	2.75	22.00	165.00	SMAJ4752A-TPTR-ND	7,500	110.00/M
36	7.0	50	SMAJ4753A-TPCT-ND	2.75	22.00	165.00	SMAJ4753A-TPTR-ND	7,500	110.00/M
39	6.5	60	SMAJ4754A-TPCT-ND	2.75	22.00	165.00	SMAJ4754A-TPTR-ND	7,500	110.00/M

·M·C·C·
Micro Commercial Components

Transistors

Fig.	V_{CEO} (V)	$V_{CE(sat)}$ (Vdc)	I_C (mA)	H_{FE}	Pd (mW)	Digi-Key Part No.	Cut Tape Pricing 10	100	Tape & Reel* Pricing 3,000	MCC Part No.
NPN										
SOT-23										
1	45	0.5	100	220	225	BC847A-TPCT-ND	.75	6.00	30.00/M	BC847A-TP
	45	0.5	100	450	225	BC847B-TPCT-ND	.75	6.00	30.00/M	BC847B-TP
	45	0.5	100	800	225	BC847C-TPCT-ND	.75	6.00	30.00/M	BC847C-TP
	40	0.3	—	75	350	MMBT2222ATPMSCT-ND	.75	6.00	30.00/M	MMBT2222A-TP
	40	0.2	—	100	350	MMBT3904TPMSCT-ND	.75	6.00	30.00/M	MMBT3904-TP
	40	0.4	—	80	350	MMBT4401TPMSCT-ND	.75	6.00	30.00/M	MMBT4401-TP
	160	0.5	600	200	300	MMBT5551-TPCT-ND	.90	7.20	36.00/M	MMBT5551-TP
	60	0.25	500	100	350	MMBTA05TPMSCT-ND	1.50	12.00	60.00/M	MMBTA05-TP
	80	0.25	500	100	350	MMBTA06TPMSCT-ND	1.50	12.00	60.00/M	MMBTA06-TP
	30	1.5	—	5000	225	MMBTA13TPMSCT-ND	2.50	20.00	100.00/M	MMBTA13-TP
	30	1.5	—	10000	225	MMBTA14TPMSCT-ND	2.50	20.00	100.00/M	MMBTA14-TP
	300	0.5	—	40	300	MMBTA42TPMSCT-ND	1.50	12.00	60.00/M	MMBTA42-TP
SOT-323										
2	50	0.25	100	220	—	BC847AW-TPCT-ND	.95	7.60	38.00/M	BC847AW-TP
	50	0.25	100	450	—	BC847BW-TPCT-ND	.95	7.60	38.00/M	BC847BW-TP
	50	0.25	100	800	—	BC847CW-TPCT-ND	.95	7.60	38.00/M	BC847CW-TP
	40	0.6	—	100	200	MMST2222ATPMSCT-ND	1.00	8.00	40.00/M	MMST2222A-TP
	40	0.25	—	100	200	MMST3904TPMSCT-ND	1.00	8.00	40.00/M	MMST3904-TP
	40	0.4	—	100	200	MMST4401TPMSCT-ND	1.00	8.00	40.00/M	MMST4401-TP
	160	0.15	—	80	200	MMST5551TPMSCT-ND	1.00	8.00	40.00/M	MMST5551-TP
	300	0.5	200	40	—	MMSTA42TPMSCT-ND	1.00	8.00	40.00/M	MMSTA42-TP
SOT-363										
3	45	0.25	100	630	200	BC847BS-TPCT-ND	2.00	16.00	80.00/M	BC847BS-TP
	40	0.3	600	300	—	MMDT2222A-TPCT-ND	2.00	16.00	80.00/M	MMDT2222A-TP
	40	0.3	200	300	200	MMDT3904-TPCT-ND	2.25	18.00	90.00/M	MMDT3904-TP
	40	0.3	200	300	200	DMMT3904-TPCT-ND ***NEW!***	3.00	24.00	120.00/M	DMMT3904-TP
	40	0.4	600	300	200	MMDT4401-TPCT-ND	2.00	16.00	80.00/M	MMDT4401-TP
	160	0.15	200	250	200	DMMT5551-TPCT-ND ***NEW!***	3.00	24.00	120.00/M	DMMT5551-TP
	160	0.15	200	250	200	MMDT5551-TPCT-ND	2.00	16.00	80.00/M	MMDT5551-TP
SOT-563										
4	45	0.5	100	200	225	BC847BVTPMSCT-ND	1.50	12.00	60.00/M	BC847BV-TP
	40	0.3	200	100	200	MMDT3904VTPMSCT-ND	2.00	16.00	80.00/M	MMDT3904V-TP
	40	0.3	600	75	—	MMDT2222VTPMSCT-ND	2.00	16.00	80.00/M	MMDT2222V-TP
SOT-523										
5	45	0.25	100	222	150	BC847AT-TPCT-ND	1.50	12.00	60.00/M	BC847AT-TP
	45	0.25	100	450	150	BC847BT-TPCT-ND	1.50	12.00	60.00/M	BC847BT-TP
	45	0.25	100	800	150	BC847CT-TPCT-ND	1.50	12.00	60.00/M	BC847CT-TP
	40	0.3	600	300	150	MMBT2222AT-TPCT-ND	1.50	12.00	60.00/M	MMBT2222AT-TP
	40	0.2	200	300	150	MMBT3904T-TPCT-ND	1.50	12.00	60.00/M	MMBT3904T-TP
NEW! TO-92 NEW!										
6	40	0.2	—	300	600	2N3904-APCT-ND†	1.00	8.00	65.00/M	2N3904-AP
	40	0.75	—	300	600	2N4401-APCT-ND†	1.75	14.00	113.75/M	2N4401-AP
	40	1.0	—	300	600	PN2222A-APCT-ND†	1.50	12.00	97.50/M	PN2222A-AP
PNP										
SOT-23										
1	40	0.25	—	300	350	MMBT3906-TPCT-ND	.50	4.00	20.00/M	MMBT3906-TP
	40	0.4	—	300	350	MMBT4403-TPCT-ND	.90	7.20	36.00/M	MMBT4403-TP
	150	0.5	600	200	300	MMBT5401-TPCT-ND	.90	7.20	36.00/M	MMBT5401-TP
	60	0.25	500	100	225	MMBTA55-TPCT-ND	1.15	9.20	46.00/M	MMBTA55-TP
	80	0.25	500	100	225	MMBTA56-TPCT-ND	1.15	9.20	46.00/M	MMBTA56-TP
	300	0.5	300	200	300	MMBTA92-TPCT-ND	.90	7.20	36.00/M	MMBTA92-TP
SOT-323										
2	-60	-0.6	—	100	200	MMST2907ATPMSCT-ND	1.00	8.00	40.00/M	MMST2907A-TP
	40	0.2	200	100	—	MMST3906TPMSCT-ND	1.00	8.00	40.00/M	MMST3906-TP
	-40	-0.4	—	100	200	MMST4403TPMSCT-ND	1.00	8.00	40.00/M	MMST4403-TP
	-150	-0.2	—	60	200	MMST5401TPMSCT-ND	1.00	8.00	40.00/M	MMST5401-TP
	300	0.5	100	—	200	MMSTA92-TPCT-ND	1.40	11.20	56.00/M	MMSTA92-TP
SOT-363										
3	40	-0.25	200	300	200	MMDT3906-TPCT-ND	2.25	18.00	90.00/M	MMDT3906-TP
	40	0.4	200	300	200	DMMT3906-TPCT-ND ***NEW!***	3.00	24.00	120.00/M	DMMT3906-TP
	40	0.4	600	300	200	MMDT4403-TPCT-ND	2.00	16.00	80.00/M	MMDT4403-TP
	150	0.5	200	240	200	DMMT5401-TPCT-ND ***NEW!***	3.00	24.00	120.00/M	DMMT5401-TP
	150	-0.2	200	240	200	MMDT5401-TPCT-ND	2.00	16.00	80.00/M	MMDT5401-TP
SOT-563										
4	-45	—	-100	—	310	BC857BVTPMSCT-ND	1.50	12.00	60.00/M	BC857BV-TP
	-40	-0.25	-200	100	—	MMDT3906VTPMSCT-ND	2.00	16.00	80.00/M	MMDT3906V-TP
SOT-523										
5	60	-0.4	600	300	150	MMBT2907AT-TPCT-ND	1.50	12.00	60.00/M	MMBT2907AT-TP
	40	-0.25	200	300	150	MMBT3906T-TPCT-ND	1.50	12.00	60.00/M	MMBT3906T-TP
NEW! TO-92 NEW!										
6	40	0.4	—	300	600	2N3906-APCT-ND†	1.00	8.00	65.00/M	2N3906-AP
	40	0.75	—	300	600	2N4403-APCT-ND†	1.75	14.00	113.75/M	2N4403-AP
	60	1.6	—	300	600	PN2907A-APCT-ND†	1.50	12.00	97.50/M	PN2222A-AP

* For Tape and Reel part number, change CT-ND to TR-ND. † For Tape and Box part number, change CT-ND to TB-ND. Reel size is 2,000.

Fig. 1 — SOT-23

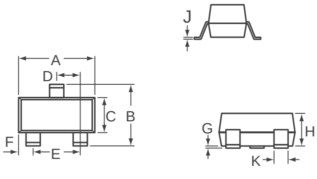

Dimensions (mm)		
Dim.	**Min.**	**Max.**
A	2.80	3.04
B	2.10	2.64
C	1.20	1.40
D	0.89	1.03
E	1.78	2.05
F	0.45	0.60
G	0.013	0.100
H	0.89	1.12
J	0.085	0.180
K	0.37	0.51

Fig. 2 — SOT-323

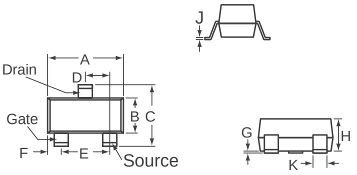

Dimensions (mm)		
Dim.	**Min.**	**Max.**
A	1.80	2.20
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
E	1.20	1.40
F	0.30	0.40
G	—	0.100
H	0.90	1.00
J	0.100	0.250
K	0.30	0.40

Fig. 3 — SOT-363

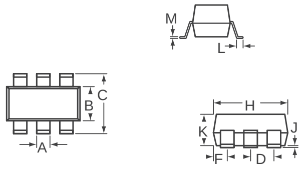

Dimensions (mm)		
Dim.	**Min.**	**Max.**
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
F	0.30	0.40
H	1.80	2.20
J	—	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25

Fig. 4 — SOT-563

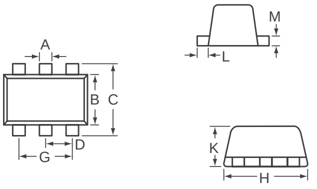

Dimensions (mm)		
Dim.	**Min.**	**Max.**
A	0.15	0.30
B	1.10	1.25
C	1.55	1.70
D	(0.50 Nominal)	
G	0.90	1.10
H	1.50	1.70
K	0.56	0.60
L	0.10	0.30
M	0.10	0.18

Fig. 5 — SOT-523

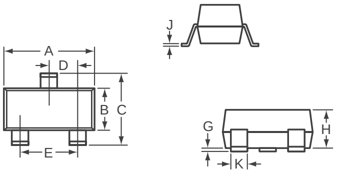

Dimensions (mm)		
Dim.	**Min.**	**Max.**
A	1.50	1.70
B	0.75	0.85
C	1.45	1.75
D	(0.50 Nominal)	
E	0.90	1.10
G	—	0.100
H	0.70	0.80
J	0.100	0.200
K	0.25	0.35

Fig. 6 — TO-92 *NEW!*

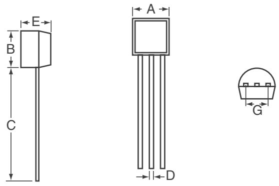

Dimensions (mm)		
Dim.	**Min.**	**Max.**
A	4.33	4.83
B	4.30	4.83
C	13.97	14.97
D	0.36	0.56
E	3.30	3.96
G	2.44	2.64

Mosfets

Fig. 1 – SOT-563

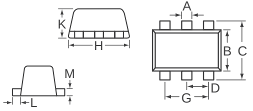

Dimensions (mm)		
Dim.	**Min.**	**Max.**
A	0.15	0.30
B	1.10	1.25
C	1.55	1.70
D	(0.50 Nominal)	
G	0.90	1.10

Dimensions (mm)		
Dim.	**Min.**	**Max.**
H	1.50	1.70
K	0.56	0.60
L	0.10	0.30
M	0.10	0.18

Fig. 2 – SOT-363

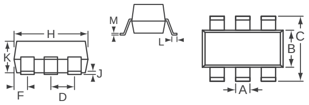

Dimensions (mm)		
Dim.	**Min.**	**Max.**
A	0.10	0.30
B	1.15	1.35
C	2.00	2.20
D	(0.65 Nominal)	
F	0.30	0.40

Dimensions (mm)		
Dim.	**Min.**	**Max.**
H	1.80	2.20
J	—	0.10
K	0.90	1.00
L	0.25	0.40
M	0.10	0.25

Fig.	V_{DSS}	I_D	I_{DM}	$R_{DS(ON)}$	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	MCC Part No.
1	60V	0.280A	1.5A	7.5Ω	2N7002VTPMSCT-ND	2.00	16.00	2N7002VTPMSTR-ND	80.00/M	2N7002V-TP
2	70V	1.0A	—	7.5Ω	2N7002DW-TPCT-ND	2.00	16.00	2N7002DW-TPTR-ND	80.00/M	2N7002DW-TP

NEC RF and Microwave Products

Low Noise Bipolar Transistors

Fig.	Package	Test f GHz	NF Typ dB	GA Typ dB	VCE V	S21E2 IC mA	S21E2 Typ dB	fT Typ GHz	HFE Typ	IC Max mA	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000
1	SMT	2.0	1.9	9.5	6	10	9	10.0	120	35	NE68019CT-ND	.66	5.50	25.67	—	—
1	SMT	2.0	1.9	9.5	6	10	9	10.0	120	35	NE68019-ACT-ND†	.66	5.50	25.67	NE68019-ATR-ND†	330.00/M
1	SOT-323	2.0	1.7	9.5	6	10	8.5	10.0	100	35	NE68030CT-ND	.86	7.15	33.37	—	—
1	SOT-323	2.0	1.7	9.5	6	10	8.5	10.0	100	35	NE68030-ACT-ND†	.84	7.00	32.67	NE68030-ATR-ND†	435.00/M
2B	SOT-143R	2.0	1.7	11	6	10	9	10.0	100	35	NE68039RCT-ND*	.93	7.75	36.17	NE68039RTR-ND	517.00/M
2B	SOT-143R	2.0	1.7	11	6	10	9	10.0	100	35	NE68039R-ACT-ND*†	.90	7.50	35.00	NE68039R-ATR-ND†	450.00/M
1	SMT	1.0	1.4	14	8	20	14	7.0	120	65	NE68119-ACT-ND†	.60	5.00	23.33	NE68119-ATR-ND†	390.00/M
1	SOT-323	1.0	1.5	13.5	8	20	13	7.0	120	65	NE68130-ACT-ND†	.75	6.25	29.17	NE68130-ATR-ND†	360.00/M
2A	SOT-143	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139CT-ND	.76	6.33	29.52	—	—
2A	SOT-143	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139-ACT-ND†	.75	6.25	29.17	NE68139-ATR-ND†	390.00/M
2B	SOT-143R	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139RCT-ND*	.75	6.25	29.17	NE68139RTR-ND	417.00/M
2B	SOT-143R	1.0	1.2	13.5	8	20	15	9.0	100	65	NE68139R-ACT-ND*†	.74	6.19	28.87	NE68139R-ATR-ND†	371.25/M
1	SMT	2.0	1.5	7.5	3	10	9	12.0	110	30	NE68519CT-ND	.46	3.85	17.97	—	—
1	SMT	2.0	1.5	7.5	3	10	9	12.0	110	30	NE68519-ACT-ND†	.66	5.50	25.67	NE68519-ATR-ND†	240.00/M
1	SOT-323	2.0	1.5	7	3	10	8.5	12.0	110	30	NE68530CT-ND	.83	6.88	32.08	NE68530TR-ND	467.00/M
1	SOT-323	2.0	1.5	7	3	10	8.5	12.0	110	30	NE68530-ACT-ND†	.81	6.75	31.50	NE68530-ATR-ND†	420.00/M
1	SMT	2.0	1.3	7.5	1	10	7.5	9.0	100	30	NE68719CT-ND	.75	6.25	29.17	—	—
1	SOT-323	2.0	1.3	7.5	1	10	7.5	9.0	100	30	NE68730CT-ND	1.05	8.75	40.83	—	—
1	SMT	2.0	1.5	8	3	20	8	9.5	120	100	NE68819CT-ND	.33	2.75	12.83	—	—
1	SMT	2.0	1.5	8	3	20	8	9.5	120	100	NE68819-ACT-ND†	.60	5.00	23.33	NE68819-ATR-ND†	165.00/M
3A	SOT-363	2.0	1.6	9	3	10	14	14.0	120	30	NE696M01CT-ND	.83	6.88	32.08	NE696M01TR-ND	467.00/M
3A	SOT-363	2.0	1.6	9	3	10	14	14.0	120	30	NE696M01-ACT-ND†	.87	7.25	33.83	NE696M01-ATR-ND†	420.00/M
1	SMT	1.0	1.4	12.5	3	7	9	4.5	120	100	NE85619-ACT-ND†	.54	4.50	21.00	NE85619-ATR-ND†	270.00/M
1	SOT-323	1.0	1.3	12	10	20	12	4.5	110	100	NE85630CT-ND	.66	5.50	25.67	—	—
1	SOT-323	1.0	1.3	12	10	20	12	4.5	110	100	NE85630-ACT-ND†	.66	5.50	25.67	NE85630-ATR-ND†	330.00/M
1	SOT-23	1.0	1.4	9	10	20	11.5	7.0	120	100	NE85633CT-ND	.66	5.50	25.67	—	—
1	SOT-23	1.0	1.4	9	10	20	11.5	7.0	120	100	NE85633B-ACT-ND†	.66	5.50	25.67	NE85633B-ATR-ND†	330.00/M
											Dual Package					
3B	SOT-363	2.0	1.9	—	3	5	7.5	8.0	120	35	UPA800T-CT-ND	1.22	10.18	47.48	—	—
3B	SOT-363	2.0	1.9	—	3	5	7.5	8.0	120	35	UPA800T-ACT-ND†	1.17	9.75	45.50	UPA800T-ATR-ND†	615.00/M
3C	SOT-363	1.0	1.2	—	3	7	9	4.5	120	100	UPA810TCT-ND	1.02	8.53	39.78	UPA810TTR-ND	583.00/M
3C	SOT-363	1.0	1.2	—	3	7	9	4.5	120	100	UPA810T-ACT-ND†	.99	8.25	38.50	UPA810T-ATR-ND†	525.00/M
3C	SOT-363	2.0	1.5	—	3	7	5	9.0	120	100	UPA814TCT-ND	1.17	9.75	45.50	UPA814TTR-ND	678.00/M

* Reverse Pinout (see Fig.) † ***RoHS Compliant***

Medium Power Bipolar Transistors

Fig.	Package	Test f GHz	Test VCE V	Test IC mA	Test Pin dBM	P1dB Typ dBM	Typ GHz	fT HFE Typ	IC Max mA	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
4	SOT-89	1.0	12.5	100	20.5	27.5	5.5	100	250	NE46134-AZCT-ND†	1.68	14.00	65.33	NE46134-AZTR-ND†	1,000	795.00
		1.0	10	40	13	22	6.5	120	100	NE85634-ACT-ND†	.90	7.50	35.00	NE85634-ATR-ND†	1,000	405.00

† ***RoHS Compliant***

Bipolar Oscillator Transistors

Fig.	Package	Posc f GHz	Posc VCE V	Posc IC mA	Posc Typ W	fT Typ GHz	HFE Typ	IC Max mA	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000
1	SOT-23	2.5	2.5	0.4	0.001	2	100	50	NE94433CT-ND	.33	2.75	12.83	NE94433TR-ND	183.00/M
1	SOT-23	2.5	2.5	0.4	0.001	2	100	50	NE94433B-ACT-ND†	.36	3.00	14.00	NE94433B-ATR-ND†	165.00/M

† ***RoHS Compliant***

General Purpose GaAs FETs

Fig.	Package	Gate Length um	Gate Width um	Frequency Range GHz	Test f GHz	NF/GA Bias VDS V	NF/GA Bias IDS mA	NF dB	GA dB	P1dB dBm	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000
2C	SOT-143R	1	400	0.1-6	0.9	5	10	1.1	20	12	NE25139CT-ND	1.50	12.50	58.33	—	—
2D	SOT-343	0.6	400	0.1-6	2.0	2	5	0.6	16	16	NE34018CT-ND	1.65	13.75	64.17	NE34018TR-ND	971.00/M
2D	SOT-343	0.6	400	0.1-6	2.0	2	5	0.6	16	16	NE34018-ACT-ND†	1.65	13.75	64.17	NE34018-ATR-ND†	945.00/M

† ***RoHS Compliant***

Silicon MMIC Wideband Amplifiers

Fig.	Package	f Typ @ 3dB down MHz	Vcc V	Icc Typ mA	NF Typ dB	Gain Typ dB	RLin Typ dB	RLout Typ dB	P1dB Typ dBm	ISOL Typ dB	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	3,000
5A	8 pin SSOP	1900	5	49	6.0	23	14	4	+15.9	35	UPC1678GVCT-ND	2.06	18.56	87.66	UPC1678GVTR-ND	1280.00	—
		1900	5	49	6.0	23	14	4	+15.9	35	UPC1678GV-ACT-ND†	2.65	23.85	112.63	UPC1678GVTR-ND†	1280.00	—
3D	SOT-363	2900	5	12	5.0	13	25	12	-2.6	30	UPC2711TBCT-ND	1.02	8.53	39.78	—	—	—
		2900	5	12	5.0	13	25	12	-2.6	30	UPC2711TB-ACT-ND†	1.41	11.75	54.83	UPC2711TB-ATR-ND†	—	525.00/M
		2600	5	12	4.5	20	12	13	-0.4	33	UPC2712TBCT-ND	1.02	8.53	39.78	—	—	—
		2600	5	12	4.5	20	12	13	-0.4	33	UPC2712TB-ACT-ND†	1.20	10.00	46.67	UPC2712TB-ATR-ND†	—	525.00/M
		2700	3	7.5	6.0	12	11	5.5	-3.0	33	UPC2745TB-ACT-ND†	.96	8.00	37.33	UPC2745TB-ATR-ND†	—	480.00/M
		1500	3	7.5	4.0	19	13	8.5	-3.7	45	UPC2746TBCT-ND	1.22	10.18	47.48	UPC2746TBTR-ND	—	683.00/M
		1500	3	7.5	4.0	19	13	8.5	-3.7	45	UPC2746TB-ACT-ND†	1.38	11.50	53.67	UPC2746TB-ATR-ND†	—	615.00/M
		2900	3	27	6.5	14.5	8.5	12	+7	25	UPC2762TB-ACT-ND†	1.38	11.50	53.67	UPC2762TB-ATR-ND†	—	585.00/M
		2400	3	27	5.5	20	12	9	+6.5	29	UPC2763TBCT-ND	1.16	9.63	44.92	—	—	—
		2400	3	27	5.5	20	12	9	+6.5	29	UPC2763TB-ACT-ND†	1.38	11.50	53.67	UPC2763TB-ATR-ND†	—	585.00/M
		2400	3	36	6.0	21	14	10	+11.5	30	UPC2771TBCT-ND	1.16	9.63	44.92	—	—	—
		2400	3	36	6.0	21	14	10	+11.5	30	UPC2771TB-ACT-ND†	1.38	11.50	53.67	UPC2771TB-ATR-ND†	—	585.00/M
		2700	5	25	6.0	23	7.5	20	+6	32	UPC2776TBCT-ND	1.02	8.53	39.78	UPC2776TBTR-ND	—	583.00/M
		2700	5	25	6.0	23	7.5	20	+6	32	UPC2776TB-ACT-ND†	1.41	11.75	54.83	UPC2776TB-ATR-ND†	—	525.00/M

† ***RoHS Compliant***

Fig. 1

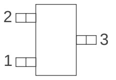

1. Emitter
2. Base
3. Collector

Fig. 2

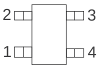

A
1. Collector
2. Emitter
3. Base
4. Emitter

B
1. Emitter
2. Collector
3. Emitter
4. Base

C
1. Source
2. Drain
3. Gate 2
4. Gate 1

D
1. Source
2. Gate
3. Source
4. Drain

Fig. 3

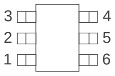

A
1. Emitter
2. Emitter
3. Base
4. Emitter
5. Emitter
6. Collector

B
1. C1
2. E1
3. C2
4. E2
5. B2
6. B1

C
1. C1
2. B2
3. C2
4. E2
5. E1
6. B1

D
1. IN
2. GND
3. GND
4. OUT
5. GND
6. Vcc

Fig. 4

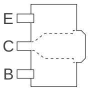

Fig. 5

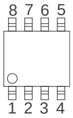

A
1. IN
2. GND
3. GND
4. GND
5. OUT
6. GND
7. GND
8. Vcc

B
1. IN
2. Vcc
3. SW1
4. OUT
5. GND
6. SW2
7. Open
8. IN

C
1. Vcc1
2. IN
3. IN
4. GND
5. SW1
6. SW2
7. OUT
8. Vcc2

D
1. Vcc
2. IN
3. IN
4. GND
5. GND
6. NC
7. OUT
8. NC

(Continued)

Silicon MMIC Prescalers

RF and Microwave Products *(Cont.)*

Fig.	Package	fin GHz Min	fin GHz Max	Pin dBm Min	Pin dBm Max	Vcc V	Icc Typ mA	Divide Ratio	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 50	Digi-Key Part No.	Tape & Reel Pricing 1,000
5B	8 pin SSOP	0.5	3	-15	+6	5	19	64/128/256	UPB1507GV-ACT-ND†	3.00	27.00	127.50	UPB1507GV-ATR-ND†	1170.00
5D	8 pin SSOP	0.5	3	-10	+6	5	10	2	UPB1508GV-ACT-ND†	3.00	27.00	127.50	UPB1508GV-ATR-ND†	1365.00
5C	8 pin SSOP	0.5	1	-20	-5	3	5	2/4/8	UPB1509GVCT-ND	2.61	23.51	111.03	—	—
5C	8 pin SSOP	0.5	1	-20	-5	3	5	2/4/8	UPB1509GV-ACT-ND†	2.63	23.63	111.56	UPB1509GV-ATR-ND†	1365.00
5D	8 pin SSOP	0.5	3	-10	+6	5	15	4	UPB1510GVCT-ND	2.23	20.05	94.67	—	—
5D	8 pin SSOP	0.5	3	-10	+6	5	15	4	UPB1510GV-ACT-ND†	3.00	27.00	127.50	UPB1510GV-ATR-ND†	1170.00

† ***RoHS Compliant***

AVAGO TECHNOLOGIES

RF and Microwave Products

Amplifiers

Package	Typ. Bias (V/mA)	Freq. Range (GHz)	Gain @ 2GHz (dB)	P_{1dB} @ 2GHz (dBm)	NF @ 2GHz (dB)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Avago Part No.
SOT-363	3/14	DC – 3.5	21.5	2.2	3.8	516-1490-1-ND†	.72	6.00	48.00	516-1490-2-ND†	360.00/M	ABA-31563-TR1G
	3/37	DC – 2.5	19.0	8.4	3.5	516-1491-1-ND†	.78	6.50	52.00	516-1491-2-ND†	390.00/M	ABA-32563-TR1G
	5/18	DC – 3.5	21.5	1.8	3.7	516-1492-1-ND	.69	5.75	46.00	516-1492-2-ND	345.00/M	ABA-51563-TR1
	5/18	DC – 3.5	21.5	1.8	3.7	516-1558-1-ND†	.69	5.75	46.00	516-1558-2-ND†	345.00/M	ABA-51536-TR1G
	5/35	DC – 3.5	21.5	9.8	3.3	516-1493-1-ND	.75	6.25	50.00	516-1493-2-ND	375.00/M	ABA-52563-TR1
	5/35	DC – 3.5	21.5	9.8	3.3	516-1559-1-ND†	.75	6.25	50.00	516-1559-2-ND†	375.00/M	ABA-52563-TR1G
	5/46	DC – 3.5	21.5	12.7	3.5	516-1494-1-ND	.93	7.75	62.00	516-1494-2-ND	465.00/M	ABA-53563-TR1
	5/46	DC – 3.5	21.5	12.7	3.5	516-1560-1-ND†	.93	7.75	62.00	516-1560-2-ND†	465.00/M	ABA-53563-TR1G
	5/79	DC – 3.4	23.0	16.1	4.4	516-1495-1-ND†	.99	8.25	66.00	516-1495-2-ND†	495.00/M	ABA-54563-TR1G

Package	Freq. Range (GHz)	Test Freq. (GHz)	V_{dd} (V)	I_{dd} (mA)	NF (dB)	Gain (dB)	P_{1dB} (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Avago Part No.
SOT-343	DC – 2.5	0.9	3.4	15.0	3.7	15.1	1.9	516-1496-1-ND	.60	5.00	40.00	516-1496-2-ND	300.00/M	ADA-4543-TR1
	DC – 2.5	0.9	3.4	15.0	3.7	15.1	1.9	516-1561-1-ND†	.60	5.00	40.00	516-1561-2-ND†	300.00/M	ADA-4543-TR1G
	DC – 2.5	0.9	3.5	35.0	4.0	17.0	13.4	516-1497-1-ND	.66	5.50	44.00	516-1497-2-ND	330.00/M	ADA-4643-TR1
	DC – 2.5	0.9	3.5	35.0	4.0	17.0	13.4	516-1562-1-ND†	.66	5.50	44.00	516-1562-2-ND†	330.00/M	ADA-4643-TR1G
	DC – 2.5	0.9	3.8	60.0	4.2	16.5	17.1	516-1498-1-ND	.72	6.00	48.00	516-1498-2-ND	360.00/M	ADA-4743-TR1
	DC – 2.5	0.9	3.8	60.0	4.2	16.5	17.1	516-1563-1-ND†	.72	6.00	48.00	516-1563-2-ND†	360.00/M	ADA-4743-TR1G
SOT-363	0.1 – 6	2.0	3.0	42.0	2.8	12.4	14.8	516-1510-1-ND	2.22	18.50	148.00	516-1510-2-ND	1110.00/M	MGA-81563-TR1
	0.1 – 6	2.0	3.0	42.0	2.8	12.4	14.8	516-1586-1-ND†	2.22	18.50	148.00	516-1586-2-ND†	1110.00/M	MGA-81563-TR1G
	0.1 – 6	2.0	3.0	84.0	2.2	13.2	17.3	516-1511-1-ND	2.61	21.75	174.00	516-1511-2-ND	1305.00/M	MGA-82563-TR1
	0.1 – 6	2.0	3.0	84.0	2.2	13.2	17.3	516-1587-1-ND†	2.61	21.75	174.00	516-1587-2-ND†	1305.00/M	MGA-82563-TR1G
	0.5 – 4	2.0	3.0	4.5	1.8	14.0	-2.0	516-1512-1-ND	2.52	21.00	168.00	516-1512-2-ND	1260.00/M	MGA-87563-TR1
	0.5 – 4	2.0	3.0	4.5	1.8	14.0	-2.0	516-1588-1-ND†	2.52	21.00	168.00	516-1588-2-ND†	1260.00/M	MGA-87563-TR1G

Package	Freq. Range (GHz)	NF @ Freq. (dB)	Gain @ Freq. (dB)	P_{1dB} @ Freq. (dBm)	IP_3 @ Freq. (dBm)	V_{cc} (V) Min.	Device Volt. (V)	Device I (mA) Max.	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel* Size	Tape and Reel* Pricing	Avago Part No.
05-SMD	0.05 – 1.3	3.6/0.5GHz	12.0/0.5GHz	17.5/0.5GHz	30.0/0.5GHz	8	5.5	80	516-1517-1-ND	3.75	31.25	250.00	500	937.50	MSA-1105-TR1
	0.05 – 1.3	3.6/0.5GHz	12.0/0.5GHz	17.5/0.5GHz	30.0/0.5GHz	8	5.5	80	516-1593-1-ND†	3.75	31.25	250.00	500	937.50	MSA-1105-TR1G
86-SMD	DC – 0.8	3.0/0.5GHz	18.5/0.5GHz	2.0/0.5GHz	14.5/0.5GHz	5	3.5	50	516-1515-1-ND	2.55	21.25	170.00	1,000	1275.00	MSA-0686-TR1
	DC – 0.8	3.0/0.5GHz	18.5/0.5GHz	2.0/0.5GHz	14.5/0.5GHz	5	3.5	50	516-1591-1-ND†	2.55	21.25	170.00	1,000	1275.00	MSA-0686-TR1G
	DC – 4	3.3/1GHz	22.5/1GHz	12.5/1GHz	27.0/1GHz	10	7.8	65	516-1516-1-ND	1.95	16.25	130.00	1,000	975.00	MSA-0886-TR1
	DC – 4	3.3/1GHz	22.5/1GHz	12.5/1GHz	27.0/1GHz	10	7.8	65	516-1592-1-ND†	1.95	16.25	130.00	1,000	975.00	MSA-0886-TR1G
SOT-143	DC – 2.3	6.0/1GHz	11.0/1GHz	9.0/1GHz	22.0/1GHz	7	4.7	60	516-1513-1-ND	2.55	21.25	170.00	3,000	1275.00/M	MSA-0311-TR1
	DC – 2.3	6.0/1GHz	11.0/1GHz	9.0/1GHz	22.0/1GHz	7	4.7	60	516-1589-1-ND†	2.55	21.25	170.00	3,000	1275.00/M	MSA-0311-TR1G
	DC – 0.7	3.0/0.5GHz	18.0/0.5GHz	2.0/0.5GHz	14.0/0.5GHz	5	3.3	40	516-1514-1-ND	1.80	15.00	120.00	3,000	900.00/M	MSA-0611-TR1
	DC – 0.7	3.0/0.5GHz	18.0/0.5GHz	2.0/0.5GHz	14.0/0.5GHz	5	3.3	40	516-1590-1-ND†	1.80	15.00	120.00	3,000	900.00/M	MSA-0611-TR1G
	DC – 0.5	3.3/0.9GHz	17.5/0.9GHz	10.0/0.9GHz	20.0/0.9GHz	5	3.6	40	516-1518-1-ND	3.15	26.25	210.00	3,000	1575.00/M	MSA-2111-TR1
	DC – 0.5	3.3/0.9GHz	17.5/0.9GHz	10.0/0.9GHz	20.0/0.9GHz	5	3.6	40	516-1594-1-ND†	3.15	26.25	210.00	3,000	1575.00/M	MSA-2111-TR1G
	DC – 0.5	3.5/1GHz	18.4/1GHz	9.0/1GHz	23.0/1GHz	7	4.5	50	516-1519-1-ND	3.15	26.25	210.00	3,000	1575.00/M	MSA-3111-TR1
	DC – 0.5	3.5/1GHz	18.4/1GHz	9.0/1GHz	23.0/1GHz	7	4.5	50	516-1595-1-ND†	3.15	26.25	210.00	3,000	1575.00/M	MSA-3111-TR1G

† ***RoHS Compliant*** * For Tape and Reel part number, change 1-ND to 2-ND.

NPN Silicon Bipolar Transistors

Package	Frequency (GHz)	V_{ce} (V)	NF_O (dB)	G_a (dB)	P_{1dB} (dBm)	G_{1dB} (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Avago Part No.
SOT-23	0.9	2.7	1.0	12.5	13.0	15.0	516-1501-1-ND	.36	3.00	24.00	516-1501-2-ND	180.00/M	AT-32033-TR1
	0.9	2.7	1.0	12.5	13.0	15.0	516-1566-1-ND†	.36	3.00	24.00	516-1566-2-ND†	180.00/M	AT-32033-TR1G
	0.9	5.0	1.0	14.5	14.5	14.5	516-1505-1-ND	.39	3.25	26.00	516-1505-2-ND	195.00/M	AT-41533-TR1
	0.9	5.0	1.0	14.5	14.5	14.5	516-1570-1-ND†	.39	3.25	26.00	516-1570-2-ND†	195.00/M	AT-41533-TR1G
SOT-143	0.9	2.7	1.0	14.0	13.0	16.5	516-1499-1-ND	.39	3.25	26.00	516-1499-2-ND	195.00/M	AT-32011-TR1
	0.9	2.7	1.0	14.0	13.0	16.5	516-1564-1-ND†	.39	3.25	26.00	516-1564-2-ND†	195.00/M	AT-32011-TR1G
	0.9	5.0	1.0	15.5	14.5	17.5	516-1503-1-ND	.39	3.25	26.00	516-1503-2-ND	195.00/M	AT-41511-TR1
	0.9	5.0	1.0	15.5	14.5	17.5	516-1568-1-ND†	.39	3.25	26.00	516-1568-2-ND†	195.00/M	AT-41511-TR1G
SOT-323	0.9	2.7	1.0	15.0	13.0	15.5	516-1500-1-ND	.39	3.25	26.00	516-1500-2-ND	195.00/M	AT-32032-TR1
	0.9	2.7	1.0	15.0	13.0	15.5	516-1565-1-ND†	.39	3.25	26.00	516-1565-2-ND†	195.00/M	AT-32032-TR1G
	0.9	5.0	1.0	15.5	14.5	14.5	516-1504-1-ND	.45	3.75	30.00	516-1504-2-ND	225.00/M	AT-41532-TR1
	0.9	5.0	1.0	15.5	14.5	14.5	516-1569-1-ND†	.45	3.75	30.00	516-1569-2-ND†	225.00/M	AT-41532-TR1G
SOT-363	0.9	2.7	1.1	14.5	12.0	16.0	516-1502-1-ND	.51	4.25	34.00	516-1502-2-ND	255.00/M	AT-32063-TR1
	0.9	2.7	1.1	14.5	12.0	16.0	516-1567-1-ND†	.51	4.25	34.00	516-1567-2-ND†	255.00/M	AT-32063-TR1G

† ***RoHS Compliant***

HEMTs

Package	Gate Width (µm)	Freq. Range (GHz)	Test Freq. (GHz)	Vdd (V)	I_{dd} (mA)	NF_O (dB)	G_a (dB)	OIP3 (dBm)	P_{1dB} (dBm)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape and Reel Pricing* 3,000	Avago Part No.
SOT-343	800	0.45 – 6	1.9	4.0	60	0.5	17.5	31.5	20.0	516-1506-1-ND	3.51	29.25	234.00	1755.00/M	ATF-34143-TR1
	800	0.45 – 6	1.9	4.0	60	0.5	17.5	31.5	20.0	516-1571-1-ND†	3.51	29.25	234.00	1755.00/M	ATF-34143-TR1G
	800	0.45 – 6	2.0	3.0	60	0.5	16.6	36.2	20.4	516-1507-1-ND	4.23	35.25	282.00	2115.00/M	ATF-54143-TR1
	800	0.45 – 6	2.0	3.0	60	0.5	16.6	36.2	20.4	516-1572-1-ND†	4.23	35.25	282.00	2115.00/M	ATF-54143-TR1G
	400	0.45 – 6	2.0	2.7	10	0.6	17.7	24.2	14.4	516-1508-1-ND	1.80	15.00	120.00	900.00/M	ATF-55143-TR1
	400	0.45 – 6	2.0	2.7	10	0.6	17.7	24.2	14.4	516-1573-1-ND†	1.80	15.00	120.00	900.00/M	ATF-55143-TR1G
MiniPak	400	0.45 – 10	2.0	2.7	10	0.5	17.5	24.1	14.6	516-1509-1-ND	1.80	15.00	120.00	900.00/M	ATF-551M4-TR1

† ***RoHS Compliant*** * For Tape and Reel part number, change 1-ND to 2-ND

ROHM Mosfets

Dimensions in (mm)

8-SOIC

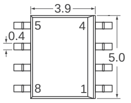

1. Source **4. Gate** **7. Drain**
2. Source **5. Drain** **8. Drain**
3. Source **6. Drain**

EMT-6

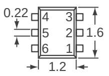

1. Source **4. Source**
2. Gate **5. Gate**
3. Drain **6. Drain**

SOT-23

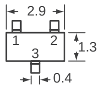

1. Source
2. Gate
3. Drain

SOT-89

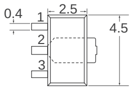

1. Gate
2. Drain
3. Source

SOT-323

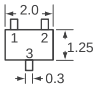

1. Source
2. Gate
3. Drain

SOT-346

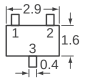

1. Source
2. Gate
3. Drain

SOT-353

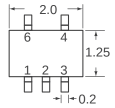

1. Gate **4. Drain**
2. Source **6. Drain**
3. Gate

SOT-363

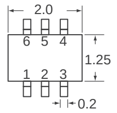

1. Source **4. Source**
2. Gate **5. Gate**
3. Drain **6. Drain**

SOT-416

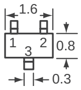

1. Source
2. Gate
3. Drain

SOT-428

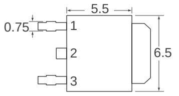

1. Gate
2. Drain
3. Source

SOT-457

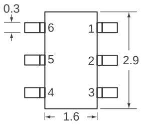

1. Drain **4. Drain**
2. Gate **5. Gate**
3. Source **6. Source**

TO-220FN

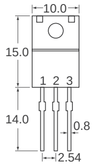

1. Gate
2. Drain
3. Source

TSMT-3

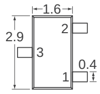

1. Gate
2. Source
3. Drain

TSMT-5

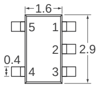

1. Anode **4. Drain**
2. Source **5. Cathode**
3. Gate

TSMT-6

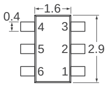

1. Gate **4. Drain**
2. Source **5. Source**
3. Gate **6. Drain**

TUMT-3

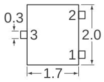

1. Gate
2. Source
3. Drain

TUMT-5

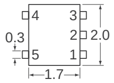

1. Gate **4. Cathode**
2. Source **5. Drain**
3. Anode

TUMT-6

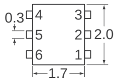

1. Source **4. Source**
2. Gate **5. Gate**
3. Drain **6. Drain**

VMT-3

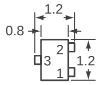

1. Gate
2. Source
3. Drain

Package	VDSS (V)	Typ. RDS (on) @	VGS (V)	ID (A)	IDP (A)	PD Max. (W)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Rohm Part No.
							N-Channel							
8-SOIC	30	27mΩ	4.5	6.5	26	2	RSS065N03TBCT-ND	.75	15.03	45.09	RSS065N03TBTR-ND	2,500	238.00/M	RSS065N03TB
		15mΩ	4.5	9	36	2	RSS090N03TBCT-ND	.75	15.03	45.09	RSS090N03TBTR-ND	2,500	238.00/M	RSS090N03TB
		12.5mΩ	4.5	10	40	2	RSS100N03TBCT-ND	.87	17.37	52.11	RSS100N03TBTR-ND	2,500	275.00/M	RSS100N03TB
		10.3mΩ	4.5	11	44	2	RSS110N03TBCT-ND	1.35	29.17	89.75	RSS110N03TBTR-ND	2,500	477.00/M	RSS110N03TB
		9.4mΩ	4.5	12	48	2	RSS120N03TBCT-ND	1.10	21.96	65.88	RSS120N03TBTR-ND	2,500	348.00/M	RSS120N03TB
		8.6mΩ	4.5	12.5	50	2	RSS125N03TBCT-ND	1.54	32.06	107.73	RSS125N03TBTR-ND	2,500	667.00/M	RSS125N03TB
		7.4mΩ	4.5	13	52	2	RSS130N03TBCT-ND	1.62	33.69	113.19	RSS130N03TBTR-ND	2,500	701.00/M	RSS130N03TB
		6mΩ	4.5	14	56	2	RSS140N03TBCT-ND	1.44	31.28	96.25	RSS140N03TBTR-ND	2,500	512.00/M	RSS140N03TB
SOT-23	60	7.5Ω	5	0.115	0.8	0.225	RK7002T116CT-ND	.34	5.00	13.00	RK7002T116TR-ND	3,000	47.00/M	RK7002T116
		1.1Ω	4	0.3	1.2	0.2	RK7002AT116CT-ND	.43	6.25	16.25	RK7002AT116TR-ND	3,000	59.00/M	RK7002AT116
SOT-89	30	0.09Ω	4	3	—	0.5	RHP030N03T100CT-ND	.71	14.20	42.60	RHP030N03T100TR-ND	1,000	227.00	RHP030N03T100
	60	0.16Ω	4	2.5	—	0.5	RJP020N06T100CT-ND	.97	19.35	58.05	RJP020N06T100TR-ND	1,000	333.00	RJP020N06T100
		0.25Ω	4	2	8	0.5	2SK3065T100CT-ND	.61	12.20	36.60	2SK3065T100TR-ND	1,000	195.00	2SK3065T100
		0.24Ω	4	2	—	0.5	RHP020N06T100CT-ND	.69	13.86	41.58	RHP020N06T100TR-ND	1,000	239.00	RHP020N06T100
SOT-323	30	1.4Ω	4	0.3	—	0.2	RHU003N03T106CT-ND	.45	7.69	21.32	RHU003N03T106TR-ND	3,000	82.00/M	RHU003N03T106
		5Ω	4	0.1	0.4	0.2	2SK3018T106CT-ND	.40	6.75	18.72	2SK3018T106TR-ND	3,000	72.00/M	2SK3018T106
		0.9Ω	4	0.3	—	0.2	RJU003N03T106CT-ND	.37	6.38	17.68	RJU003N03T106TR-ND	3,000	68.00/M	RJU003N03T106
	60	2.8Ω	4	0.2	0.8	0.2	RHU002N06T106CT-ND	.49	7.25	18.85	RHU002N06T106TR-ND	3,000	68.00/M	RHU002N06T106
		1.7Ω	4	0.2	—	0.2	RJU002N06T106CT-ND	.45	7.69	21.32	RJU002N06T106TR-ND	3,000	82.00/M	RJU002N06T106
SOT-346	30	2.8Ω	4	0.2	0.8	0.2	2SK2731T146CT-ND	.44	8.13	22.88	2SK2731T146TR-ND	3,000	94.00/M	2SK2731T146
		0.58Ω	4	0.5	—	0.2	RHK005N03T146CT-ND	.39	7.50	21.60	RHK005N03T146TR-ND	3,000	102.00/M	RHK005N03T146
		0.43Ω	4	0.5	—	0.2	RJK005N03T146CT-ND	.44	8.13	22.88	RJK005N03T146TR-ND	3,000	94.00/M	RJK005N03T146
	60	1.1Ω	4	0.3	—	0.2	RHK003N06T146CT-ND	.45	8.63	24.84	RHK003N06T146TR-ND	3,000	117.00/M	RHK003N06T146
SOT-363	30	5Ω	4	0.1	0.2	0.15	UM6K1NTNCT-ND	.46	8.44	23.76	UM6K1NTNTR-ND	3,000	97.00/M	UM6K1NTN
SOT-416	30	5Ω	4	0.1	0.4	0.15	2SK3019TLCT-ND	.40	6.75	18.72	2SK3019TLTR-ND	3,000	72.00/M	2SK3019TL
SOT-428	60	0.4Ω	4	2	8	20	2SK2094TLCT-ND	1.10	21.96	65.88	2SK2094TLTR-ND	2,500	348.00/M	2SK2094TL
		0.17Ω	4	5	20	20	2SK2503TLCT-ND	1.10	21.96	65.88	2SK2503TLTR-ND	2,500	348.00/M	2SK2503TL
		0.15Ω*	10	8	20	20	RK3055ETLCT-ND	1.12	22.32	66.96	RK3055ETLTR-ND	2,500	353.00/M	RK3055ETL
	100	0.25Ω	4	5	20	20	2SK2504TLCT-ND	1.10	21.96	65.88	2SK2504TLTR-ND	2,500	348.00/M	2SK2504TL
	200	0.7Ω	10	3	12	20	2SK2887TLCT-ND	1.68	36.40	112.00	2SK2887TLTR-ND	2,500	596.00/M	2SK2887TL
	500	3Ω	10	2	6	20	2SK2715TLCT-ND	.90	17.91	53.73	2SK2715TLTR-ND	2,500	284.00/M	2SK2715TL
	600	4.4Ω	10	2	6	20	2SK3050TLCT-ND	.98	19.62	58.86	2SK3050TLTR-ND	2,500	311.00/M	2SK3050TL
TO-220FN	60	0.11Ω	4	10	40	30	2SK2095N-ND	2.40	50.00	168.00	—	—	—	2SK2095N
	200	0.55Ω	10	5	20	30	RDN050N20-ND	1.04	20.88	62.64	—	—	—	RDN050N20
		0.27Ω	10	10	40	35	RDN100N20-ND	.98	21.13	65.00	—	—	—	RDN100N20
		0.12Ω	10	15	45	40	RDN150N20-ND	1.50	32.50	100.00	—	—	—	RDN150N20
	250	0.38Ω	10	8	32	35	RDN080N25-ND	1.09	23.56	72.50	—	—	—	RDN080N25
		0.16Ω	10	12	48	40	RDN120N25-ND	1.56	32.50	109.20	—	—	—	RDN120N25
	450	0.85Ω	10	7	28	30	2SK2299N-ND	1.71	35.63	119.70	—	—	—	2SK2299N
		1Ω	10	5	20	30	2SK2713-ND	1.76	38.19	117.50	—	—	—	2SK2713
	500	1.1Ω	10	5	20	30	2SK2793-ND	2.42	50.50	169.68	—	—	—	2SK2793
	600	1Ω	10	7	28	30	2SK2740-ND	2.58	53.69	180.39	—	—	—	2SK2740
		1.8Ω	10	4	16	30	2SK2792-ND	2.69	56.13	188.58	—	—	—	2SK2792
TSMT-3	30	74mΩ	4.5	2.5	10	1	RSR025N03TLCT-ND	.65	12.90	38.70	RSR025N03TLTR-ND	3,000	194.00/M	RSR025N03TL
		66mΩ	4.5	2.5	—	1	RTR025N03TLCT-ND	.50	10.00	30.00	RTR025N03TLTR-ND	3,000	150.00/M	RTR025N03TL
TSMT-5	30	71mΩ	4.5	2	8	1	QS5U12CT-ND	.70	14.00	42.00	QS5U12TR-ND	3,000	210.00/M	QS5U12TR
		71mΩ	4.5	2	8	1	QS5U13CT-ND	.64	12.70	38.10	QS5U13TR-ND	3,000	191.00/M	QS5U13TR
		71mΩ	4.5	2	8	1	QS5U16CT-ND	.64	12.70	38.10	QS5U16TR-ND	3,000	191.00/M	QS5U16TR
		71mΩ	4.5	2	8	1	QS5U17CT-ND	.72	14.40	43.20	QS5U17TR-ND	3,000	216.00/M	QS5U17TR
TSMT-6	30	89mΩ	4.5	2	—	1.25	RTQ020N03CT-ND	.45	9.00	27.00	RTQ020N03TR-ND	3,000	135.00/M	RTQ020N03TR
		38mΩ	4.5	3.5	—	1.25	RTQ035N03CT-ND	.68	13.50	40.50	RTQ035N03TR-ND	3,000	203.00/M	RTQ035N03TR
		30mΩ	4.5	4.5	18	1.25	RTQ045N03CT-ND	.69	13.86	41.58	RTQ045N03TR-ND	3,000	219.00/M	RTQ045N03TR
		36mΩ	4.5	4.5	—	1.25	RSQ045N03CT-ND	.75	15.03	45.09	RSQ045N03TR-ND	3,000	238.00/M	RSQ045N03TR

* Maximum

(Continued)

Package	V_{DSS}	Typ. R_{DS}	V_{GS}	I_D	I_{DP}	P_D	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		Rohm
	(V)	(on) @	(V)	(A)	(A)	Max. (W)	Part No.	1	25	100	Part No.	Size	Pricing	Part No.
TUMT-3	30	170mΩ	4.5	1.5	—	0.8	RTF015N03TLCT-ND	.58	11.50	34.50	RTF015N03TLTR-ND	3,000	173.00/M	RTF015N03TL
		48mΩ	4.5	2.5	—	0.8	RTF025N03TLCT-ND	.74	14.70	44.10	RTF025N03TLTR-ND	3,000	221.00/M	RTF025N03TL
		170mΩ	4	1.4	—	0.8	RSF014N03TLCT-ND	.58	11.50	34.50	RSF014N03TLTR-ND	3,000	173.00/M	RSF014N03TL
TUMT-6	30	35mΩ	4.5	3.5	—	1	RTL035N03CT-ND	.58	11.60	34.80	RTL035N03TR-ND	3,000	174.00/M	RTL035N03TR
VMT-3	30	5Ω	4	0.1	0.4	0.15	2SK3541T2LCT-ND	.38	7.03	19.80	2SK3541T2LTR-ND	8,000	77.00/M	2SK3541T2L
Dual N-Channel														
8-SOIC	30	52mΩ	4.5	5	20	2	SP8K1TBCT-ND	.75	15.03	45.09	SP8K1TBTR-ND	2,500	238.00/M	SP8K1TB
		30mΩ	4.5	6	24	2	SP8K2TBCT-ND	.87	17.37	52.11	SP8K2TBTR-ND	2,500	275.00/M	SP8K2TB
		23mΩ	4.5	7	28	2	SP8K3TBCT-ND	1.44	31.28	96.25	SP8K3TBTR-ND	2,500	512.00/M	SP8K3TB
		16mΩ	4.5	9	36	2	SP8K4TBCT-ND	1.44	31.28	96.25	SP8K4TBTR-ND	2,500	512.00/M	SP8K4TB
		93mΩ	4.5	3.5	14	2	SP8K5TBCT-ND	1.04	20.79	62.37	SP8K5TBTR-ND	2,500	329.00/M	SP8K5TB
EMT-6	30	5mΩ	4	0.1	0.4	0.15	EM6K1T2RCT-ND	.55	10.50	30.24	EM6K1T2RTR-ND	8,000	134.00/M	EM6K1T2R
SOT-353	30	5Ω	4	0.1	0.2	0.15	UM5K1NCT-ND	.42	8.13	23.40	UM5K1NTR-ND	3,000	111.00/M	UM5K1NTR
SOT-363	30	5Ω	4	0.1	0.2	0.15	UM6K1NCT-ND	.75	15.03	45.09	UM6K1NTR-ND	3,000	238.00/M	UM6K1NTR
SOT-457	60	2.8Ω	4	0.2	0.8	0.2	SM6K2T110CT-ND	.50	9.63	27.72	SM6K2T110TR-ND	3,000	131.00/M	SM6K2T110
TSMT-6	30	180mΩ	4.5	1	4	1.25	QS6K1CT-ND	.71	14.20	42.60	QS6K1TR-ND	3,000	213.00/M	QS6K1TR
TUMT-6	30	170mΩ	4.5	1.5	—	1	US6K1CT-ND	.63	12.50	37.50	US6K1TR-ND	3,000	188.00/M	US6K1TR
		170mΩ	10	1.4	—	1	US6K2CT-ND	.68	13.50	40.50	US6K2TR-ND	3,000	203.00/M	US6K2TR
Dual N and P-Channel														
8-SOIC	30/-30	23mΩ	4.5	7/4.5	28/18	2	SP8M10TBCT-ND	1.28	27.63	85.00	SP8M10TBTR-ND	2,500	452.00/M	SP8M10TB
		52mΩ	4.5	5/4.5	20/18	2	SP8M3TBCT-ND	1.13	24.38	75.00	SP8M3TBTR-ND	2,500	399.00/M	SP8M3TB
		16mΩ	4.5	9/7	36/28	2	SP8M4TBCT-ND	1.84	39.81	122.50	SP8M4TBTR-ND	2,500	652.00/M	SP8M4TB
		30mΩ	4.5	6/7	24/28	2	SP8M5TBCT-ND	1.58	34.13	105.00	SP8M5TBTR-ND	2,500	559.00/M	SP8M5TB
		52mΩ	4.5	5/3.5	20/14	2	SP8M6TBCT-ND	1.03	22.34	68.75	SP8M6TBTR-ND	2,500	366.00/M	SP8M6TB
		52mΩ	4.5	5/7	20/28	2	SP8M7TBCT-ND	1.46	31.69	97.50	SP8M7TBTR-ND	2,500	519.00/M	SP8M7TB
		30mΩ	4.5	6/4.5	24/18	2	SP8M8TBCT-ND	1.22	26.41	81.25	SP8M8TBTR-ND	2,500	432.00/M	SP8M8TB
		16mΩ	4.5	9/5	36/20	2	SP8M9TBCT-ND	1.63	35.34	108.75	SP8M9TBTR-ND	2,500	579.00/M	SP8M9TB
TSMT-6	30/-20	170mΩ	4.5	1.5/1.5	6/6	1.25	QS6M3CT-ND	.55	11.00	33.00	QS6M3TR-ND	3,000	165.00/M	QS6M3TR
		170mΩ	4.5	1.5/1.5	6/6	1.25	QS6M4CT-ND	.63	12.50	37.50	QS6M4TR-ND	3,000	188.00/M	QS6M4TR
TUMT-6	30/-20	250mΩ	4.5	1.4/1	5.6/4	1	US6M1CT-ND	.70	14.00	42.00	US6M1TR-ND	3,000	210.00/M	US6M1TR
	20/-20	170/280mΩ	4.5	1.5/1	—	1	US6M2CT-ND	.70	14.00	42.00	US6M2TR-ND	3,000	210.00/M	US6M2TR
P-Channel														
8-SOIC	30	68mΩ	4.5	4	16	2	RSS040P03TBCT-ND	1.10	21.96	65.88	RSS040P03TBTR-ND	2,500	348.00/M	RSS040P03TB
		47mΩ	4.5	5	20	2	RSS050P03TBCT-ND	1.01	21.94	67.50	RSS050P03TBTR-ND	2,500	359.00/M	RSS050P03TB
		22mΩ	4.5	7.5	30	2	RSS075P03TBCT-ND	1.73	37.54	115.50	RSS075P03TBTR-ND	2,500	614.00/M	RSS075P03TB
		15mΩ	4.5	9	36	2	RSS090P03TBCT-ND	1.58	32.88	110.46	RSS090P03TBTR-ND	2,500	684.00/M	RSS090P03TB
SOT-323	20	1.1Ω	4	0.2	—	—	RTU002P02T106CT-ND	.51	9.88	28.44	RTU002P02T106TR-ND	3,000	134.00/M	RTU002P02T106
	30	0.9Ω	10	0.2	—	—	RSU002P03T106CT-ND	.40	7.63	21.96	RSU002P03T106TR-ND	3,000	104.00/M	RSU002P03T106
SOT-416	20	1.1Ω	4	0.2	—	—	RTE002P02TLCT-ND	.50	9.63	27.72	RTE002P02TLTR-ND	3,000	131.00/M	RTE002P02TL
	30	1.6Ω	4	0.2	—	0.15	RSE002P03TLCT-ND	.51	9.75	28.08	RSE002P03TLTR-ND	3,000	133.00/M	RSE002P03TL
TSMT-3	20	100mΩ	4.5	2	8	1	RTR020P02TLCT-ND	.61	12.20	36.60	RTR020P02TLTR-ND	3,000	183.00/M	RTR020P02TL
		70mΩ	4.5	2.5	10	1	RTR025P02TLCT-ND	.50	10.00	30.00	RTR025P02TLTR-ND	3,000	150.00/M	RTR025P02TL
		55mΩ	4.5	3	12	1	RTR030P02TLCT-ND	.57	10.88	31.32	RTR030P02TLTR-ND	3,000	148.00/M	RTR030P02TL
	30	170mΩ	4.5	1.5	—	1	RSR015P03TLCT-ND	.56	11.20	33.60	RSR015P03TLTR-ND	3,000	168.00/M	RSR015P03TL
		135mΩ	4.5	2	—	1	RSR020P03TLCT-ND	.62	12.30	36.90	RSR020P03TLTR-ND	3,000	185.00/M	RSR020P03TL
		100mΩ	4.5	2.5	—	1	RSR025P03TLCT-ND	.67	13.30	39.90	RSR025P03TLTR-ND	3,000	200.00/M	RSR025P03TL
TSMT-5	20	160mΩ	4.5	1.5	6	1	QS5U21CT-ND	.68	13.68	41.04	QS5U21TR-ND	3,000	217.00/M	QS5U21TR
		160mΩ	4.5	1.5	6	1	QS5U23CT-ND	.66	13.20	39.60	QS5U23TR-ND	3,000	198.00/M	QS5U23TR
		160mΩ	4.5	1.5	6	1	QS5U26CT-ND	.66	13.20	39.60	QS5U26TR-ND	3,000	198.00/M	QS5U26TR
		160mΩ	4.5	1.5	6	1	QS5U27CT-ND	.69	13.77	41.31	QS5U27TR-ND	3,000	218.00/M	QS5U27TR
		90mΩ	4.5	2	8	0.9	QS5U28CT-ND	.71	14.13	42.39	QS5U28TR-ND	3,000	224.00/M	QS5U28TR
TSMT-6	20	155mΩ	4.5	1.5	6	1.25	QS6U22CT-ND	.64	12.80	38.40	QS6U22TR-ND	3,000	192.00/M	QS6U22TR
		72mΩ	4.5	2.5	10	1.25	RTQ025P02CT-ND	.58	11.60	34.80	RTQ025P02TR-ND	3,000	174.00/M	RTQ025P02TR
		60mΩ	4.5	3	12	1.25	RTQ030P02CT-ND	.52	10.30	30.90	RTQ030P02TR-ND	3,000	155.00/M	RTQ030P02TR
		50mΩ	4.5	3.5	17.5	1.25	RTQ035P02CT-ND	.58	11.60	34.80	RTQ035P02TR-ND	3,000	174.00/M	RTQ035P02TR
		35mΩ	4.5	4	16	1.25	RTQ040P02CT-ND	.69	13.70	41.10	RTQ040P02TR-ND	3,000	206.00/M	RTQ040P02TR
	30	500mΩ	4.5	1	2	1	QS6U24CT-ND	.64	12.70	38.10	QS6U24TR-ND	3,000	191.00/M	QS6U24TR
		120mΩ	4.5	2.5	10	1.25	RSQ025P03CT-ND	.74	14.80	44.40	RSQ025P03TR-ND	3,000	222.00/M	RSQ025P03TR
		90mΩ	4.5	3	12	1.25	RSQ030P03CT-ND	.69	13.86	41.58	RSQ030P03TR-ND	3,000	219.00/M	RSQ030P03TR
		65mΩ	4.5	3.5	14	1.25	RSQ035P03CT-ND	.69	13.86	41.58	RSQ035P03TR-ND	3,000	219.00/M	RSQ035P03TR
TUMT-3	20	280mΩ	4.5	1	4	0.8	RTF010P02TLCT-ND	.60	12.00	36.00	RTF010P02TLTR-ND	3,000	180.00/M	RTF010P02TL
		100mΩ	4.5	1.5	6	0.8	RTF015P02TLCT-ND	.71	14.13	42.39	RTF015P02TLTR-ND	3,000	224.00/M	RTF015P02TL
		60mΩ	4.5	2	8	0.8	RTF020P02TLCT-ND	.74	14.76	44.28	RTF020P02TLTR-ND	3,000	234.00/M	RTF020P02TL
TUMT-6	20	100mΩ	4.5	2	8	1	RTL020P02CT-ND	.70	14.04	42.12	RTL020P02TR-ND	3,000	222.00/M	RTL020P02TR
		50mΩ	4.5	3	12	1	RTL030P02CT-ND	.80	15.93	47.79	RTL030P02TR-ND	3,000	252.00/M	RTL030P02TR
VMT-3	20	1.1Ω	4	0.2	—	0.15	RTM002P02T2LCT-ND	.55	10.63	30.60	RTM002P02T2LTR-ND	8,000	136.00/M	RTM002P02T2L
	30	0.9Ω	10	0.2	—	0.15	RSM002P03T2LCT-ND	.56	10.75	30.96	RSM002P03T2LTR-ND	8,000	138.00/M	RSM002P03T2L
Dual P-Channel														
8-SOIC	30	40mΩ	4.5	5	20	2	SP8J1TBCT-ND	1.81	37.69	126.63	SP8J1TBTR-ND	2,500	784.00/M	SP8J1TB
		57mΩ	4.5	4.5	18	2	SP8J2TBCT-ND	1.49	32.34	99.50	SP8J2TBTR-ND	2,500	529.00/M	SP8J2TB
		100mΩ	4.5	3.5	14	2	SP8J3TBCT-ND	1.54	33.39	102.75	SP8J3TBTR-ND	2,500	547.00/M	SP8J3TB
		270mΩ	4.5	2	8	2	SP8J4TBCT-ND	1.20	26.08	80.25	SP8J4TBTR-ND	2,500	427.00/M	SP8J4TB
		25mΩ	4.5	7	28	2	SP8J5TBCT-ND	2.93	60.94	204.75	SP8J5TBTR-ND	2,500	1268.00/M	SP8J5TB
TSMT-6	20	155mΩ	4.5	1.5	6	1.25	QS6J1CT-ND	.66	13.10	39.30	QS6J1TR-ND	3,000	197.00/M	QS6J1TR
		155mΩ	4.5	1.5	6	1.25	QS6J3CT-ND	.66	13.10	39.30	QS6J3TR-ND	3,000	197.00/M	QS6J3TR
TUMT-6	20	280mΩ	4.5	1	4	1	US6J2CT-ND	.70	14.00	42.00	US6J2TR-ND	3,000	210.00/M	US6J2TR

Package	V_{DSS}	Typ. R_{DS}	V_{GS}	I_D	I_{DP}	V_{RM}	I_F	P_D	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		Rohm
	(V)	(on) @	(V)	(A)	(A)	(V)	(A)	Max. (W)	Part No.	1	25	100	Part No.	Size	Pricing	Part No.
N-Channel with Diode																
TUMT-5	30	170mΩ	4.5	1.5	—	—	—	1	US5U1CT-ND	.68	13.50	40.50	US5U1TR-ND	3,000	203.00/M	US5U1TR
		250mΩ	4.5	1.4	—	—	—	1	US5U2CT-ND	.68	13.50	40.50	US5U2TR-ND	3,000	203.00/M	US5U2TR
P-Channel with Diode																
TUMT-5	20	280mΩ	4.5	1	4	25	0.7	1	US5U29CT-ND	.68	13.50	40.50	US5U29TR-ND	3,000	214.00/M	US5U29TR
		280mΩ	4.5	1	4	25	0.5	1	US5U30CT-ND	.70	14.00	42.00	US5U30TR-ND	3,000	210.00/M	US5U30TR

***** Maximum

ROHM Digital Transistors

Package	Circuit	VCEO (V)	IO (mA)	Gain (HFE)	R1 kΩ	Ω Ratio R2/R1	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel Size	Pricing*	Rohm Part No.
NPN													
SOT-89	C	60	1A	300	13	—	DTDG14GPT100CT-ND	.47	9.00	25.92	1,000	130.00	DTDG14GPT100
SOT-323	D	50	100	30	13	1.2	DTC114EUAT106CT-ND	.43	6.25	16.25	3,000	59.00/M	DTC114EUAT106
		50	100	68	13	5.7	DTC114YUAT106CT-ND	.43	6.25	16.25	3,000	59.00/M	DTC114YUAT106
		50	100	20	6.11	1.2	DTC143EUAT106CT-ND	.37	5.50	14.30	3,000	52.00/M	DTC143EUAT106
		50	100	68	61.1	1.2	DTC144EUAT106CT-ND	.43	6.25	16.25	3,000	59.00/M	DTC144EUAT106
SOT-346	E	50	100	600	13	—	DTC114TKAT146CT-ND	.31	4.50	11.70	3,000	42.00/M	DTC114TKAT146
	D	50	100	82	130	1.2	DTC115EKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTC115EKAT146
	D	50	100	20	2.86	1.2	DTC123EKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTC123EKAT146
	D	50	100	80	2.86	26	DTC123JKAT146CT-ND	.34	5.00	13.00	3,000	47.00/M	DTC123JKAT146
	A	15	600	600	2.86	—	DTC323TKT146CT-ND	.47	8.06	22.36	3,000	86.00/M	DTC323TKT146
	D	50	100	30	13	1.2	DTC114EKAT146CT-ND	.34	5.00	13.00	3,000	47.00/M	DTC114EKAT146
		50	100	68	13	5.7	DTC114YKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTC114YKAT146
		50	100	56	28.6	1.2	DTC124EKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTC124EKAT146
		50	100	68	28.6	2.6	DTC124XKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTC124XKAT146
		50	100	20	6.11	1.2	DTC143EKAT146CT-ND	.34	5.00	13.00	3,000	47.00/M	DTC143EKAT146
	D	50	100	30	6.11	2.6	DTC143XKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTC143XKAT146
		50	100	80	6.11	12	DTC143ZKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTC143ZKAT146
		50	100	68	61.1	1.2	DTC144EKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTC144EKAT146
		50	100	56	61.1	0.57	DTC144WKAT146CT-ND	.39	6.56	18.20	3,000	70.00/M	DTC144WKAT146
		50	500	56	1.3	12	DTD113ZKT146CT-ND	.46	7.88	21.84	3,000	84.00/M	DTD113ZKT146
	D	50	500	56	13	1.2	DTD114EKT146CT-ND	.40	7.63	21.96	3,000	104.00/M	DTD114EKT146
		50	500	56	2.86	5.5	DTD123YKT146CT-ND	.40	7.63	21.96	3,000	104.00/M	DTD123TKT146
		50	500	47	6.11	1.2	DTD143EKT146CT-ND	.50	9.63	27.72	3,000	131.00/M	DTD143EKT1460
SOT-416	D	50	100	68	61.1	1.2	DTC144EETLCT-ND	.43	6.25	16.25	3,000	59.00/M	DTC144EETL
		50	100	56	28.6	1.2	DTC124EETLCT-ND	.43	6.25	16.25	3,000	59.00/M	DTC124EETL
PNP													
SOT-323	B	50	50	30	13	1.2	DTA114EUAT106CT-ND	.36	5.25	13.65	3,000	49.00/M	DTA114EUAT106
SOT-346	E	40	500	600	2.86	—	DTB123TKT146CT-ND	.41	7.50	21.12	3,000	86.00/M	DTB123TK146
	E	50	100	600	13	—	DTA114TKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTA114TKAT146
	E	50	100	600	6.11	—	DTC143TKAT146CT-ND	.34	5.00	13.00	3,000	47.00/M	DTC143TKAT146
	B	50	50	30	13	1.2	DTA114EKAT146CT-ND	.29	4.25	11.05	3,000	40.00/M	DTA114EKAT146
	B	50	100	68	13	5.7	DTA114YKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTA114YKAT146
	B	50	100	80	2.86	26	DTA123JKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTA123JKAT146
		50	100	56	28.6	1.2	DTA124EKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTA124EKAT146
		50	100	20	6.11	1.2	DTA143EKAT146CT-ND	.34	5.00	13.00	3,000	47.00/M	DTA143EKAT146
		50	100	30	6.11	2.6	DTA143XKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTA134XKAT146
		50	100	68	61.1	1.2	DTA144EKAT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DTA144EKAT146
	B	50	500	33	1.3	1.2	DTB113EKT146CT-ND	.42	7.66	21.56	3,000	88.00/M	DTB113EKT146
		50	500	56	1.3	12	DTB113ZKT146CT-ND	.42	7.66	21.56	3,000	88.00/M	DTB113ZKT146
		50	500	56	2.86	5.5	DTB123YKT146CT-ND	.40	7.63	21.96	3,000	104.00/M	DTB123YKT146

* For Tape and Reel part number, change CT-ND to TR-ND.

Dual Digital Transistors

Package	Circuit	VCEO (V)	IC (mA)	Gain (HFE)	R1 kΩ	Ω Ratio R2/R1	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel Size	Pricing*	Rohm Part No.
NPN													
SOT-363	G	50	100	80	2.86	26	UMH10NTNCT-ND	.38	7.03	19.80	3,000	81.00/M	UMH10NTN
	G	50	50	30	13	1.2	UMH11NTNCT-ND	.38	7.03	19.80	3,000	81.00/M	UMH11NTN
	F	50	30	68	61.1	1.2	UMH6NCT-ND	.38	7.03	19.80	3,000	81.00/M	UMH6NTR
	G	50	70	68	13	5.7	UMH9NTNCT-ND	.38	7.03	19.80	3,000	81.00/M	UMH9NTN
SOT-457	H	50	30	68	61.1	1.2	IMH2AT110CT-ND	.49	7.25	18.85	3,000	68.00/M	IMH2AT110
		50	100	80	2.86	26	IMH10AT110CT-ND	.40	6.75	18.72	3,000	72.00/M	IMH10AT110
		50	50	30	13	1.2	IMH11AT110CT-ND	.49	7.25	18.85	3,000	68.00/M	IMH11AT110
PNP													
SOT-363	K	50	100	80	2.86	26	UMB10NTNCT-ND	.38	7.03	19.80	3,000	81.00/M	UMB10NTN
		50	50	30	13	1.2	UMB11NTNCT-ND	.38	7.03	19.80	3,000	81.00/M	UMB11NTN
SOT-457	L	50	100	80	2.86	26	IMB10AT110CT-ND	.42	7.13	19.76	3,000	76.00/M	IMB10AT110
PNP/NPN													
SOT-363	I	50	50	30	13	1.2	UMD3NCT-ND	.43	7.31	20.28	3,000	78.00/M	UMD3N
SOT-457	M	50 50	500 100	68 600	130 13	120 —	IMD10AT108CT-ND	.41	7.50	21.12	3,000	86.00/M	IMD10AT108
	J	50	100	600	6.11	—	IMD6AT108CT-ND	.44	8.13	22.88	3,000	94.00/M	IMD6AT108
		50	100	68	13	5.7	IMD9AT108CT-ND	.44	8.13	22.88	3,000	94.00/M	IMD9AT108

* For Tape and Reel part number, change CT-ND to TR-ND.

Dual Transistors

Package	Circuits	VCEO (V)	VCBO (V)	IC mA	HFE Max.	VCE Sat. (V)	VCE IC (mA)	IB (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel Size	Pricing*	Rohm Part No.
NPN															
SOT-363	W	50	60	150	560	0.4	50	5	UMX1NTNCT-ND	.43	7.31	20.28	3,000	78.00/M	UMX1NTN
	T	50	60	150	560	0.4	50	5	UMX2NTRCT-ND	.43	7.31	20.28	3,000	78.00/M	UMX2NTR
	P	50	60	150	560	0.4	50	5	UMX3NTRCT-ND	.49	7.25	18.85	3,000	68.00/M	UMX3NTR
	P	11	20	50	270	0.5	10	5	UMX5NCT-ND	.44	8.38	24.12	3,000	114.00/M	UMX5NTR
SOT-457	U	50	60	150	560	0.4	50	5	IMX2T108CT-ND	.49	7.25	18.85	3,000	68.00/M	IMX2T108
	S	120	120	50	820	0.5	10	1	IMX8T108CT-ND	.43	7.81	22.00	3,000	90.00/M	IMX8T108
	X	50	60	150	560	0.4	50	5	IMX1T110CT-ND	.48	8.25	22.88	3,000	88.00/M	IMX1T110
PNP															
SOT-363	N	50	60	150	560	0.5	50	5	UMT1NTNCT-ND	.42	7.13	19.76	3,000	76.00/M	UMT1NTN
SOT-457	V	120	120	50	820	0.5	10	1	IMT4T108CT-ND	.43	7.81	22.00	3,000	90.00/M	IMT4T108
PNP/NPN															
SOT-363	Q	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	UMZ1NTRCT-ND	.43	7.31	20.28	3,000	78.00/M	UMZ1NTR
SOT-457	O	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	IMZ2AT108CT-ND	.46	8.44	23.76	3,000	97.00/M	IMZ2AT108
SOT-457	R	50 50	60 60	150 150	560 560	0.4 0.5	50 50	5 5	IMZ1AT108CT-ND	.43	7.81	22.00	3,000	90.00/M	IMZ1AT108

* For Tape and Reel part number, change CT-ND to TR-ND.

SOT-89

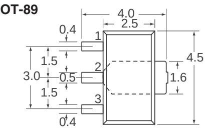

SOT-323

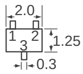

SOT-346

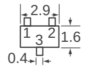

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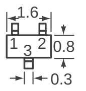

SOT-363

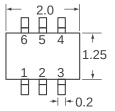

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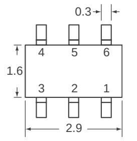

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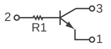

1. Emitter
2. Base
3. Collector

B

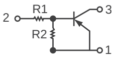

1. GND
2. IN
3. OUT

C

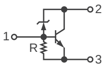

1. Base
2. Collector
3. Emitter

D

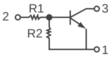

1. GND
2. IN
3. OUT

E

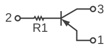

1. Emitter
2. Base
3. Collector

F

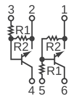

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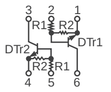

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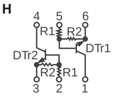

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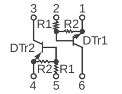

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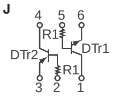

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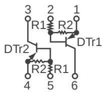

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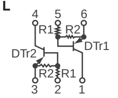

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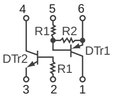

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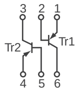

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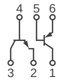

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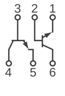

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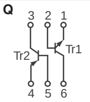

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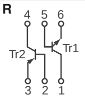

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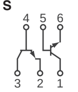

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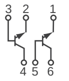

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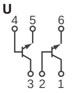

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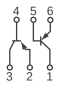

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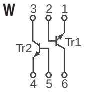

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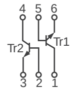

SOT-23

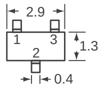

1. Emitter
2. Base
3. Collector

SOT-89

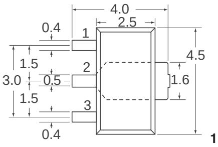

1. Base
2. Collector
3. Emitter

SOT-323

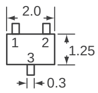

1. Emitter
2. Base
3. Collector

SOT-346

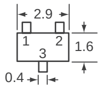

1. Emitter
2. Base
3. Collector

SOT-416

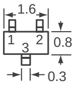

1. Emitter
2. Base
3. Collector

SC-72/SPT

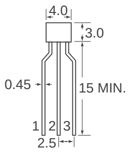

1. Emitter
2. Collector
3. Base

ATV

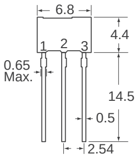

1. Emitter
2. Collector
3. Base

VMT3

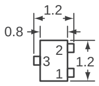

1. Base
2. Emitter
3. Collector

SOT-428

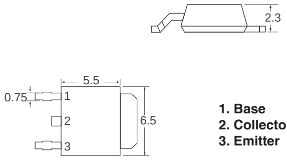

1. Base
2. Collector
3. Emitter

	VCEO	VCBO	IC	HFE	VCE Sat	VCE	VCE IB	Digi-Key	Cut Tape Pricing			Tape and Reel		Rohm
Package	(V)	(V)	(A)	Max.	Max. (V)	IC (mA)	(mA)	Part No.	1	25	100	Size	Pricing*	Part No.
								NPN						
SOT-23	40	75	0.6	75	1	500	50	SST2222AT116CT-ND	.26	3.75	9.75	3,000	35.00/M	SST2222AT116
	40	60	0.6	80	0.75	500	50	SST4401T116CT-ND	.44	6.50	16.90	3,000	61.00/M	SST4401T116
	80	80	0.3	—	1.2	100	0.1	SSTA28T116CT-ND	.48	8.25	22.88	3,000	88.00/M	SSTA28T116
	80	80	0.5	100	0.25	100	10	SSTA06T116CT-ND	.36	6.19	17.16	3,000	66.00/M	SSTA06T116
SOT-89	20	40	3	390	0.5	2A	0.1A	2SD2150T100RCT-ND	.52	10.30	30.90	1,000	165.00	2SD2150T100R
	50	60	1	—	0.4	500	50	2SC5053T100QCT-ND	.42	8.13	23.40	1,000	117.00	2SC5053T100Q
	80	100	1	270	0.4	500	20	2SD1898T100QCT-ND	.45	9.00	27.00	1,000	144.00	2SD1898T100Q
	90	90	2	10K	1.5	1A	1	2SD2170T100CT-ND	.61	12.20	36.60	1,000	195.00	2SD2170T100
SOT-323	40	75	0.6	75	1	500	50	UMT2222AT106CT-ND	.44	6.50	16.90	3,000	61.00/M	UMT2222AT106
	40	60	0.2	300	0.3	50	5	UMT3904T106CT-ND	.44	6.50	16.90	3,000	61.00/M	UMT3904T106
	50	60	0.15	270	0.4	50	5	2SC4081T106QCT-ND	.34	5.00	13.00	3,000	47.00/M	2SC4081T106Q
	50	60	0.15	390	0.4	50	5	2SC4081T106RCT-ND	.34	5.00	13.00	3,000	47.00/M	2SC4081T106R
SOT-346	40	75	0.6	75	1	500	50	MMST2222AT146CT-ND	.33	5.63	15.60	3,000	60.00/M	MMST2222AT146
	40	60	0.6	80	0.75	500	50	MMST4401T146CT-ND	.46	6.75	17.55	3,000	63.00/M	MMST4401T146
	50	60	0.15	270	0.4	50	5	2SC2412KT146QCT-ND	.29	4.25	11.05	3,000	40.00/M	2SC2412KT146Q
	50	60	0.15	390	0.4	50	5	2SC2412KT146RCT-ND	.29	4.25	11.05	3,000	40.00/M	2SC2412KT146R
	50	60	0.15	560	0.4	50	5	2SC2412KT146SCT-ND	.31	4.50	11.70	3,000	42.00/M	2SC2412KT146S
SOT-416	50	60	0.15	270	0.4	50	5	2SC4617TLQCT-ND	.34	5.00	13.00	3,000	47.00/M	2SC4617TLQ
	50	60	0.15	390	0.4	50	5	2SC4617TLRCT-ND	.34	5.00	13.00	3,000	47.00/M	2SC4617TLR
SC-72/SPT	50	60	0.15	390	0.4	50	5	2SC1740STPRCT-ND†	.41	6.00	15.60	5,000	48.00/M	2SC1740STPR
ATV	80	100	1	390	0.4	500	20	2SD1863TV2RCT-ND†	.55	10.90	32.70	2,500	164.00/M	2SD1863TV2R
VMT3	50	60	0.15	270	0.4	50	5	2SC5658T2LQCT-ND	.42	7.13	19.76	8,000	68.00/M	2SC5658T2LQ
								PNP						
SOT-23	40	40	0.6	100	0.75	500	50	SST4403T116CT-ND	.44	6.50	16.90	3,000	61.00/M	SST4403T116
	60	60	0.6	100	1.6	500	50	SST2907AT116CT-ND	.26	3.75	9.75	3,000	35.00/M	SST2907AT116
SOT-89	50	60	1	270	0.4	500	50	2SA1900T100QCT-ND	.65	12.90	38.70	1,000	206.00	2SA1900T100Q
	32	40	1	270	0.5	500	50	2SB1132T100QCT-ND	.44	8.50	24.48	1,000	122.00	2SB1132T100Q
	32	40	2	270	0.8	2A	0.2A	2SB1188T100QCT-ND	.45	9.00	27.00	1,000	144.00	2SB1188T100Q
	32	40	2	390	0.8	2A	0.2A	2SB1188T100RCT-ND	.45	9.00	27.00	1,000	144.00	2SB1188T100R
	80	80	1	270	0.4	500	50	2SB1260T100QCT-ND	.52	10.00	28.80	1,000	144.00	2SB1260T100Q
	20	20	3	270	0.5	2A	0.1A	2SB1424T100QCT-ND	.45	9.00	27.00	1,000	144.00	2SB1424T100Q
	20	20	3	390	0.5	2A	0.1A	2SB1424T100RCT-ND	.42	8.13	23.40	1,000	117.00	2SB1424T100R
SOT-323	40	40	0.2	300	0.4	50	5	UMT3906T106CT-ND	.44	6.50	16.90	3,000	61.00/M	UMT3906T106
	50	60	0.15	270	0.5	50	5	2SA1576AT106QCT-ND	.34	5.00	13.00	3,000	47.00/M	2SA1576AT106Q
	50	60	0.15	390	0.5	50	5	2SA1576AT106RCT-ND	.34	5.00	13.00	3,000	47.00/M	2SA1576AT106R
	60	60	0.6	100	1.6	500	50	UMT2907AT106CT-ND	.44	6.50	16.90	3,000	61.00/M	UMT2907AT106
SOT-346	32	40	0.8	270	0.5	0.5A	50	2SB1197KT146QCT-ND	.43	7.31	20.28	3,000	78.00/M	2SB1197KT146Q
	40	40	0.6	100	0.75	500	50	MMST4403T146CT-ND	.46	6.75	17.55	3,000	63.00/M	MMST4403T146
	50	60	0.15	270	0.5	50	5	2SA1037AKT146QCT-ND	.29	4.25	11.05	3,000	40.00/M	2SA1037AK146Q
	50	60	0.15	390	0.5	50	5	2SA1037AKT146RCT-ND	.29	4.25	11.05	3,000	40.00/M	2SA1037AK146R
	60	60	0.6	100	1.6	500	50	MMST2907AT146CT-ND	.49	7.25	18.85	3,000	68.00/M	MMST2907AT146
SOT-416	50	60	0.15	270	0.5	50	5	2SA1774TLQCT-ND	.37	5.50	14.30	3,000	52.00/M	2SA1774TLQ
SOT-428	50	60	3	270	1	2A	0.2A	2SB1184TLQCT-ND	.65	12.90	38.70	2,500	194.00/M	2SB1184TLQ

* For Tape and Reel part number, change CT-ND to TR-ND.   † For Tape and Box part number, change CT-ND to TB-ND.

Diodes and Transistors

Silicon Switching Diodes

Fig.	Forward Current If (mA)	Surge Current Ifs (A)	Rev. Volt. (Vr)	Max. For. Voltage (Vf)	Recovery Time Trr (ns)	Power Dissip. mW	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								10	100	1,000		Size	Pricing	
							SOT-23							
1	250	0.625	250	1	50	350	BAS21INCT-ND	1.73	9.72	35.10	BAS21INTR-ND	3,000	29.00/M	BAS21E6327
	250	4.5	75	1.2	4	370	SMBD914INCT-ND	1.89	10.62	38.35	SMBD914INTR-ND	3,000	32.00/M	SMBD914E6327
	250	4.5	75	1.2	6	370	BAS16INCT-ND	1.55	8.73	31.53	BAS16INTR-ND	3,000	26.00/M	BAS16E6327
	120	0.2	40	1	0.1	250	BAS40INCT-ND	2.45	15.93	66.15	BAS40INTR-ND	3,000	58.00/M	BAS40E6327
	250	4.5	75	0.715	4	370	MMBD914LT1INCT-ND	1.50	8.46	37.60	MMBD914LT1INTR-ND	3,000	19.00/M	MMBD914LT1
	70	0.1	70	1	0.1	250	BAS70INCT-ND	2.45	15.93	66.15	BAS70INTR-ND	3,000	58.00/M	BAS70E6327
2	200	4.5	70	1.2	3	250	BAV170INCT-ND	2.02	11.34	40.95	BAV170INTR-ND	3,000	23.31/M	BAV170E6327
	200	4.5	70	1.2	6	250	BAV70INCT-ND	1.50	8.46	30.55	BAV70INTR-ND	3,000	17.39/M	BAV70E6327
	120	0.2	40	1	0.1	250	BAS4005INCT-ND	2.64	17.16	71.28	BAS4005INTR-ND	3,000	62.00/M	BAS4005E6327
	70	0.1	70	1	0.1	250	BAS7005INCT-ND	1.98	13.73	60.72	BAS7005INTR-ND	3,000	46.00/M	BAS7005E6327
3	200	4.5	70	1.2	3	330	BAV199INCT-ND	2.02	11.34	40.95	BAV199INTR-ND	3,000	23.31/M	BAV199E6327
	200	4.5	70	1.2	6	330	BAV99INCT-ND	1.50	8.46	30.55	BAV99INTR-ND	3,000	17.39/M	BAV99E6327
	200	4.5	100	1.1	15	330	SMBD7000INCT-ND	1.73	9.72	35.10	SMBD7000INTR-ND	3,000	29.00/M	SMBD7000E6327
	200	4.5	100	0.7	15	330	MMBD7000LT1INCT-ND	1.63	9.18	33.15	MMBD7000LT1INTR-ND	3,000	21.00/M	MMBD7000LT1
	120	0.2	40	1	0.1	250	BAS4004INCT-ND	2.64	17.16	71.28	BAS4004INTR-ND	3,000	62.00/M	BAS4004E6327
	70	0.1	70	1	0.1	250	BAS7004INCT-ND	2.64	17.16	71.28	BAS7004INTR-ND	3,000	62.00/M	BAS7004E6327
4	200	4.5	70	1.2	6	330	BAW56INCT-ND	1.50	8.46	30.55	BAW56INTR-ND	3,000	17.39/M	BAW56E6327
	120	0.2	40	1	0.1	250	BAS4006INCT-ND	2.64	17.16	71.28	BAS4006INTR-ND	3,000	62.00/M	BAS4006E6327
							SOT-143							
6	140	—	50	1.3	6	210	BGX50AINCT-ND	2.34	16.50	75.00	BGX50AINTR-ND	3,000	61.13/M	BGX50AE6327
							SOT-323							
3	250	0.8	40	0.75	—	250	BAT6404WINCT-ND	2.39	15.54	64.53	BAT6404WINTR-ND	3,000	56.00/M	BAT6404WE6327

Silicon Variable Capacitance Diodes

Fig.	Package	Reverse Voltage Vr	Forward current If (mA)	Capacitance Ratio Ct2/Ct25 (pF)	Diode Capacitance VR=2V (Ct) (pF)	Series Res. (rs)Ω	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Infineon Part No.
								10	100	1,000		Size	Pricing	
5	SOD-323	30	20	6.7	15	0.55	BB535INCT-ND	2.61	18.10	80.04	BB535INTR-ND	3,000	70.00/M	BB535E7908
				10.4	29.7	0.65	BB639INCT-ND	2.81	19.80	90.00	BB639INTR-ND	3,000	81.00/M	BB639E7908
				12.4*	9.3‡	1.8	BB833INCT-ND	4.40	31.64	158.22	BB833INTR-ND	3,000	149.00/M	BB833E6327

* C_{T1}/C_{T28} ‡ V_R = 1V

Silicon Carbide Schottky Diodes

Fig.	Package	V_{RRM} (V)	Q_c (nC)	If (A)	P_{tot} (W)	Digi-Key Part No.	Pricing			Infineon Part No.
							10	100	1,000	
7	TO-220-2-2	300	23	10	65	SDT10S30IN-ND	86.47	683.51	5249.81	SDT10S30
7	TO-220-2-2	600	13	4	36.5	SDT04S60IN-ND	64.37	350.39	3019.00	SDT04S60
7	TO-220-2-2	600	21	6	57.6	SDT06S60IN-ND	65.99	545.72	4815.18	SDT06S60
7	TO-220-2-2	600	30	12	88.2	SDT12S60IN-ND	139.11	1052.73	9399.38	SDT12S60
8	TO-220-3-1	300	23	2 x 10	65	SDP20S30IN-ND	150.67	1275.80	11267.85	SPDP20S30

Silicon AF Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Infineon Part No.
							10	100	1,000		Size	Pricing	
SOT-23	PNP	30	30	100	20000	SMBTA64INCT-ND*	1.97	13.68	60.49	SMBTA64INTR-ND*	3,000	45.00/M	SMBTA64E6327
	NPN	45	45	100	460	BCX70KINCT-ND	1.92	10.80	39.00	BCX70KINTR-ND	3,000	32.00/M	BCX70KE6327
	NPN	45	50	100	140	BC847AINCT-ND	1.49	8.37	30.23	BC847AINTR-ND	3,000	17.21/M	BC847AE6327
	NPN	45	50	100	480	BC847CINCT-ND	1.49	8.37	30.23	BC847CINTR-ND	3,000	17.21/M	BC847CE6327
	PNP	45	50	100	480	BC857CINCT-ND	1.49	8.37	30.23	BC857CINTR-ND	3,000	17.21/M	BC857CE6327
	NPN	60	45	500	2000	BCV47INCT-ND*	2.46	15.99	66.42	BCV47INTR-ND*	3,000	58.00/M	BCV47E6327
	PNP	60	80	500	2000	BCV46INCT-ND*	2.46	15.99	66.42	BCV46INTR-ND*	3,000	58.00/M	BCV46E6327
	NPN	80	80	500	100	SMBTA06INCT-ND	2.13	11.97	43.23	SMBTA06INTR-ND	10,000	27.00/M	SMBTA06E6433
	NPN	80	80	500	100	MMBTA06LT1INCT-ND	1.38	8.97	37.26	MMBTA06LT1INTR-ND	3,000	42.00/M	MMBTA06LT1
	PNP	80	80	500	100	SMBTA56INCT-ND	1.13	7.35	30.51	SMBTA56INTR-ND	10,000	18.00/M	SMBTA56E6433
	PNP	300	300	500	40	SMBTA92INCT-ND	1.92	12.48	51.84	SMBTA92INTR-ND	3,000	45.00/M	SMBTA92E6327
	PNP	300	300	500	40	MMBTA92LT1INCT-ND	1.91	12.42	51.57	MMBTA92LT1INTR-ND	3,000	60.00/M	MMBTA92LT1
SOT-89	PNP	80	100	1000	25	BCX5310INCT-ND	2.80	20.16	—	BCX5310INTR-ND	1,000	96.88	BCX5310E6327
	NPN	45	100	1000	25	BCX5410INCT-ND	2.80	20.16	—	BCX5410INTR-ND	1,000	96.88	BCX5410E6327
	PNP	20	25	1000	160	BCX6916INCT-ND	3.89	27.97	—	BCX6916INTR-ND	1,000	134.00	BCX6916E6327

* Darlington

Silicon RF Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Infineon Part No.
							10	100	1,000		Size	Pricing	
SOT-343	NPN	4.5	15	12	90	BFP405INCT-ND	4.98	37.35	199.20	BFP405INTR-ND	3,000	190.00/M	BFP405E6327
		4.5	15	35	100	BFP420INCT-ND	5.08	38.10	203.20	BFP420INTR-ND	3,000	194.00/M	BFP420E6327
		4.5	15	100	80	BFP450INCT-ND	6.45	48.36	277.61	BFP450INTR-ND	3,000	255.00/M	BFP450E6327
		2.5	10	40	110	BFP520INCT-ND	7.51	56.30	323.18	BFP520INTR-ND	3,000	297.00/M	BFP520E6327
SOT-23	PNP	15	20	25	50	BFT92INCT-ND	4.31	31.03	155.16	BFT92INTR-ND	3,000	147.00/M	BFT92E6327
TSFP-4	NPN	4.0	13	50	180	BFP640FE6327INCT-ND ◊***NEW!***	7.82	65.17	558.60	BFP640FE6327INTR-ND◊ ***NEW!***	3.000	521.00/M	BFP640FE6327

◊ ***RoHS Compliant***

Silicon Switching Transistors

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Infineon Part No.
							10	100	1,000		Size	Pricing	
SOT-23	NPN	40	75	600	100	SMBT2222AINCT-ND	1.65	9.27	33.48	SMBT2222AINTR-ND	3,000	28.00/M	SMBT2222AE6327
	NPN	40	75	600	100	MMBT2222ALT1INCT-ND	1.74	9.81	35.43	MMBT2222ALT1INTR-ND	3,000	34.00/M	MMBT2222ALT1
	PNP	60	60	600	100	SMBT2907AINCT-ND	1.58	8.91	32.18	SMBT2907AINTR-ND	3,000	27.00/M	SMBT2907AE6327
	PNP	60	60	600	100	MMBT2907ALT1INCT-ND	1.41	7.92	28.60	MMBT2907ALT1INTR-ND	3,000	18.00/M	MMBT2907ALT1
	NPN	40	60	200	100	SMBT3904INCT-ND	1.50	8.46	30.55	SMBT3904INTR-ND	3,000	25.00/M	SMBT3904E6327
	NPN	40	60	200	100	MMBT3904LT1INCT-ND	1.30	7.29	26.33	MMBT3904LT1INTR-ND	3,000	17.00/M	MMBT3904LT1
	PNP	40	40	200	100	SMBT3906INCT-ND	1.50	8.46	30.55	SMBT3906INTR-ND	3,000	25.00/M	SMBT3906E6327
	PNP	40	40	200	100	MMBT3906LT1INCT-ND	1.30	7.29	26.33	MMBT3906LT1INTR-ND	3,000	17.00/M	MMBT3906LT1
	NPN	30	30	300	20000	SMBTA14INCT-ND*	1.97	13.68	60.49	SMBTA14INTR-ND*	3,000	45.00/M	SMBTA14E6327

* Darlington

Silicon Digital Transistor

Package	Type	Vceo	Vcbo	Ic (mA)	Hfe	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Infineon Part No.
							10	100	1,000		Size	Pricing	
SOT-23	NPN	50	50	100	30	BCR133INCT-ND	1.95	10.98	39.65	BCR133INTR-ND	3,000	33.00/M	BCR133E6327

Fig. 1

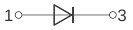

Fig. 2

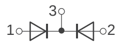

Fig. 3

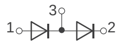

Fig. 4

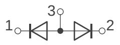

Fig. 5

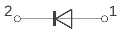

Fig. 6

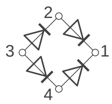

Fig. 7

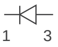

Fig. 8

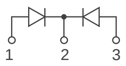

SOT-143

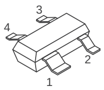

TSFP-4 ***NEW!***

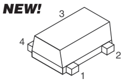

TO-220-2-2

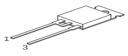

TO-220-3-1

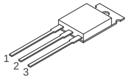

SOD-323

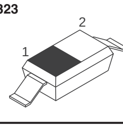

SOT-323

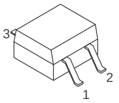

SOT-23

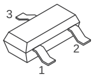

SOT-89

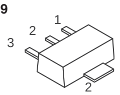

SOT-343

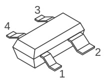

Transistor Pin Out

Pkg	Pin1	Pin 2	Pin 3	Pin 4
SOT-23	B	E	C	—
SOT-89	B	C	E	—
SOT-343	B	E	C	E

BCR133E6327

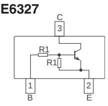

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ON Semiconductor offers one of the broadest selections of small signal transistors in the industry. Supplying the devices required to complete design circuitry quickly, efficiently, and cost effectively. The company continues to introduce its small signal transistors in all the latest packages required by today's newest applications.

Fig. 1 — TO-3

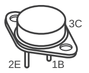

Fig. 2 — TO-92

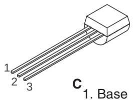

A
1. Collector
2. Base
3. Emitter

B
1. Emitter
2. Base
3. Collector

C
1. Base
2. Emitter
3. Collector

Fig. 3 — TO-218AC

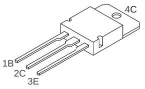

Fig. 4 — TO-220AB

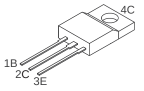

Fig. 5 — TO-220FP

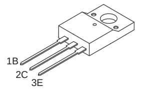

Fig. 6 — TO-225AA

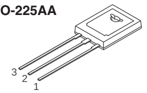

1. Emitter
2. Collector
3. Base

Fig. 7 — TO-247

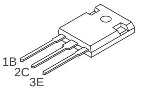

Fig. 8 — TO-264/ TO-3PBL

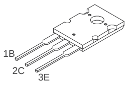

Fig. 9 — TO-264-5

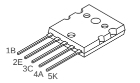

Fig. 10 — SOT-23

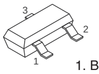

1. Base
2. Emitter
3. Collector

Fig. 11 — SOT-223

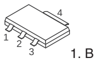

1. Base
2. Collector
3. Emitter
4. Collector

Fig. 12 — SOT-323

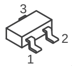

1. Base
2. Emitter
3. Collector

Fig. 13 — SOT-363/SC-88

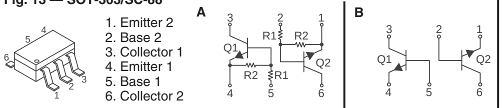

1. Emitter 2
2. Base 2
3. Collector 1
4. Emitter 1
5. Base 1
6. Collector 2

Fig. 14 — 16-SOIC

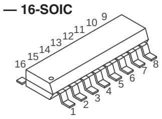

1. Collector Dye 1
2. Collector 1
3. Collector 2
4. Collector 2
5. Collector 3
6. Collector 3
7. Collector 4
8. Collector 4
9. Base 4
10. Emitter 4
11. Base 3
12. Emitter 3
13. Base 2
14. Emitter 2
15. Base 1
16. Emitter 1

Fig. 15 — SC-59

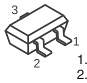

1. Emitter
2. Base
3. Collector

Fig. 16 — SC-74

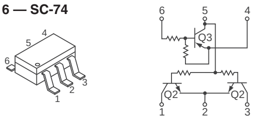

Fig. 17 — SC-75

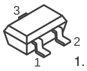

1. Base
2. Emitter
3. Collector

Fig. 18 — DPAK

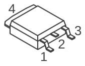

1. Gate
2. Drain
3. Source
4. Drain

Fig. 19 — SOT-553

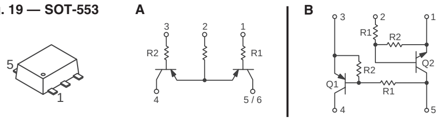

Fig. 20 — SOT-563

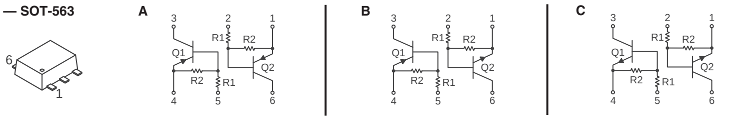

Fig.	V_{CEO} (V)	V_{CB} (V)	I_C (A)	HFE (Min.)	Pd (T_A @ 25°C) (W)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Tape and Reel* Size	Tape and Reel* Pricing
NPN											
TO-3											
1	60	100	15	20	115	2N3055OS-ND	2.10	17.50	147.00	—	—
	60	100	15	20	115	2N3055GOS-ND◊	2.10	17.50	147.00	—	—
	60	100	20	15	150	2N3772OS-ND	3.89	33.84	252.00	—	—
	60	100	20	15	150	2N3772GOS-ND◊	3.89	33.84	252.00	—	—
	60	60	30	40	200	2N5302OS-ND	4.05	35.25	262.50	—	—
	60	60	30	40	200	2N5302GOS-ND◊	4.05	35.25	262.50	—	—
	60	60	25	35	200	2N5885GOS-ND◊	4.05	35.25	262.50	—	—
	80	80	50	15	300	2N5686OS-ND	12.88	117.60	929.60	—	—
	80	80	50	15	300	2N5686GOS-ND◊	11.60	107.30	812.00	—	—
	80	80	25	35	200	2N5886GOS-ND◊	4.05	35.25	262.50	—	—
	80	80	60	30	300	MJ14002OS-ND	11.20	103.60	784.00	—	—
	90	90	20	20	140	2N5038GOS-ND◊	8.28	75.60	597.60	—	—
	100	100	20	750	160	2N6284OS-ND	5.13	44.65	332.50	—	—
	100	100	20	750	160	2N6284GOS-ND◊	5.13	44.65	332.50	—	—
	120	120	30	1K	200	MJ11016OS-ND	3.65	31.80	236.85	—	—
	140	160	16	15	150	2N3773GOS-ND◊	3.89	33.84	252.00	—	—
	250	400	16	15	250	MJ15024GOS-ND◊	4.05	35.25	262.50	—	—
	250	400	16	25	250	MJ21194GOS-ND◊	4.59	39.95	297.50	—	—
	250	400	16	25	250	MJ21196OS-ND	5.81	50.53	376.25	—	—
	250	400	16	25	250	MJ21196GOS-ND◊	3.78	32.90	245.00	—	—
	250	—	10	20	200	MJ15011OS-ND	4.05	35.25	262.50	—	—
TO-92											
2C	15	20	—	25	.350	MPSH17OS-ND	.44	2.57	16.71	—	—
2B	25	25	0.1	—	.625	MPS5172OS-ND	.36	2.10	13.65	—	—
	25	30	0.2	120	.625	2N4124OS-ND	.28	1.64	10.66	—	—
	25	30	0.2	120	.625	2N4124GOS-ND◊	.28	1.66	10.79	—	—
	25	25	0.5	35	.625	MPS6560OS-ND	.36	2.42	16.80	—	—
	25	40	1	300	.625	MPS6521OS-ND	.36	2.42	16.80	—	—
2C	25	30	—	60	.350	MPSH10RLRAOSCT-ND	—	1.93	13.36	—	—
2B	25	30	.05	450	.625	2N5089OS-ND	.33	1.94	12.61	—	—
	25	30	.05	450	.625	2N5089GOS-ND◊	.34	1.99	12.94	—	—
	30	60	0.6	50	.625	MPS2222OS-ND	.28	1.64	10.66	—	—
	30	40	1	55	1	MPSW01OS-ND	.45	3.32	23.36	—	—
	30	35	.05	350	.625	2N5088GOS-ND◊	.34	1.99	12.94	—	—
	30	30	0.5	5K	.625	MPSA13RLRAOSCT-ND	—	1.96	12.74	2,000	53.00/M
	30	30	0.5	10K	.625	MPSA14RLRAOSCT-ND	—	1.96	12.74	2,000	53.00/M
	40	60	0.6	40	.625	2N4401RLRAOSCT-ND	—	1.58	10.27	2,000	43.00/M
	40	60	0.6	40	.625	2N4401RLRAGOSCT-ND◊	—	1.60	10.40	2,000	43.00/M
	40	60	0.2	70	.625	2N3904RLRAOSCT-ND	—	2.22	12.51	2,000	42.00/M
	40	60	0.2	70	.625	2N3904RLRAGOSCT-ND◊	—	2.22	12.51	2,000	45.00/M
	40	4.0	0.1	40	.625	MPSA20OS-ND	.33	1.96	12.74	—	—
	40	60	2	75	.625	MPS650OS-ND	.39	2.89	20.33	—	—
	40	75	0.6	35	.625	MPS2222ARLRAOSCT-ND	—	1.76	11.44	2,000	48.00/M
2A	40	75	0.6	50	.625	P2N2222AOS-ND	.36	2.10	13.65	—	—
2B	40	40	0.5	20K	.625	2N6426GOS-ND◊	.37	2.49	17.26	—	—
	40	40	0.5	10K	.625	2N6427OS-ND	.36	2.45	17.00	—	—
	40	40	0.5	10K	.625	2N6427GOS-ND◊	.37	2.49	17.26	—	—
	45	45	0.2	500	.625	MPSA18RLRAOSCT-ND	—	1.96	12.74	—	—
2A	45	50	0.8	100	.625	BC337GOS-ND◊	.36	2.14	13.91	—	—
	45	50	0.1	240	.625	BC547BOS-ND	.28	1.64	10.66	—	—
	45	50	0.1	240	.625	BC547BGOS-ND◊	.28	1.66	10.79	—	—
2B	50	60	1	25K	1	MPSW45AOS-ND	.45	3.32	23.36	—	—
	50	60	1	25K	1	MPS6725OS-ND	.48	3.50	24.64	—	—
	60	60	0.5	100	.625	MPS8098RLRAOSCT-ND	—	2.45	17.00	—	—
	60	60	0.5	—	.625	MPSA05RLRAOSCT-ND	—	1.96	12.74	2,000	53.00/M
	60	80	2	75	.625	MPS651RLRAOSCT-ND	—	2.89	20.33	2,000	92.00/M
	60	60	0.5	10K	.625	MPSA27RLRAOSCT-ND	—	1.96	12.74	—	—
	60	60	0.5	80	1	MPSW05OS-ND	.45	3.32	23.36	—	—
2A	65	80	0.1	240	.625	BC546BOS-ND	.28	1.64	10.66	—	—
	65	80	0.1	240	.625	BC546BGOS-ND◊	.28	1.66	10.79	—	—
2B	80	80	0.5	100	.625	MPS8099RLRAOSCT-ND	—	2.45	17.00	—	—
2B	80	80	0.5	80	1	MPS6717OS-ND	.48	3.50	24.64	—	—
	80	80	0.5	100	.625	MPSA06RLRAOSCT-ND	—	1.82	11.83	2,000	49.00/M
	80	80	0.5	80	1	MPSW06RLRAOSCT-ND	—	3.32	23.36	—	—
	100	100	0.5	10K	.625	MPSA29RLRPOSCT-ND‡	—	1.96	12.74	2,000	53.00/M
	140	160	0.6	60	.625	2N5550OS-ND	.33	1.94	12.61	—	—
	140	160	0.6	60	.625	2N5550GOS-ND◊	.34	1.99	12.94	—	—
	160	180	0.6	80	.625	2N5551RLRAOSCT-ND	—	1.94	12.61	2,000	52.00/M
	160	180	0.6	80	.625	2N5551RLRAGOSCT-ND◊	—	1.99	12.94	2,000	54.00/M
	300	300	0.5	25	.625	MPSA42RLRAOSCT-ND	—	2.08	13.52	2,000	56.00/M
	300	300	0.5	25	1	MPSW42RLRAOSCT-ND	—	2.63	18.94	2,000	105.00/M
	350	350	0.5	20	.625	2N6517OS-ND	.49	3.58	25.21	—	—
	350	350	0.5	20	.625	2N6517GOS-ND◊	.49	3.63	25.56	—	—
	400	500	0.3	40	.625	MPSA44RLRAOSCT-ND	—	5.43	39.10	2,000	174.00/M
TO-218AC											
3	60	60	10	1K	3.5	TIP140OS-ND	2.45	20.42	171.51	—	—
	100	100	10	1K	3.5	TIP142OS-ND	2.45	20.42	171.51	—	—
	100	100	25	25	125	TIP35COS-ND	2.84	24.68	183.75	—	—
	100	100	10	40	80	TIP33COS-ND	1.75	14.59	122.51	—	—
	250	250	15	400	150	MJH11022OS-ND	3.84	33.45	249.10	—	—
TO-220AB											
4	40	40	3	25	2	TIP31OS-ND	.68	5.41	40.55	—	—
	60	60	3	25	2	TIP31AOS-ND	.68	5.41	40.55	—	—
	60	60	2	1K	2	TIP110OS-ND	.95	7.56	56.70	—	—
	60	—	10	60	50	D44H8OS-ND	1.23	10.62	81.68	—	—
	60	—	10	60	50	D44H8GOS-ND◊	1.25	10.80	83.05	—	—
	60	60	8	1K	75	2N6043GOS-ND◊	1.01	8.11	60.86	—	—
	60	70	10	20	75	MJE3055TOS-ND	1.01	8.72	67.10	—	—
	70	80	7	30	40	2N6292GOS-ND◊	1.13	9.75	75.00	—	—
	80	—	10	60	50	D44H11OS-ND	1.23	10.62	81.68	—	—
	80	—	10	60	50	D44H11GOS-ND◊	1.25	10.80	83.05	—	—
	80	80	10	1K	2	2N6388OS-ND	1.01	8.72	67.10	—	—
	80	80	10	1K	2	2N6388GOS-ND◊	1.02	8.87	68.23	—	—
	80	80	5	1K	2	TIP121OS-ND	.73	5.82	43.66	—	—
	80	90	15	20	1.8	2N6488GOS-ND◊	1.14	9.87	75.93	—	—
	80	—	15	35	83	D44VH10OS-ND	1.23	10.62	81.68	—	—
	80	—	15	35	83	D44VH10GOS-ND◊	1.25	10.80	83.05	—	—
	100	100	8	1K	75	2N6045GOS-ND◊	1.01	8.11	60.86	—	—
	100	100	2	1K	2	TIP112OS-ND	.95	7.56	56.70	—	—
	100	100	8	1K	2	TIP102OS-ND	.96	8.34	64.18	—	—
	100	100	3	25	2	TIP31COS-ND	.68	5.41	40.55	—	—
	100	100	6	30	2	TIP41COS-ND	.95	7.56	56.70	—	—
	100	100	10	—	70	BDX33COS-ND	1.09	9.48	72.93	—	—
	100	100	10	—	70	BDX33CGOS-ND◊	1.11	9.64	74.15	—	—
	120	120	8	40	2	MJE15028OS-ND	1.58	13.65	105.00	—	—
	200	400	7	—	60	BU406GOS-ND◊	1.60	13.88	106.78	—	—
	250	250	8	70	8	MJE15032GOS-ND◊	1.43	12.35	95.00	—	—
	250	350	5	10	80	2N6497GOS-ND◊	.88	7.02	52.65	—	—
	350	350	4	100	2	MJE15034OS-ND	2.52	21.00	176.40	—	—
	350	350	4	100	2	MJE15034GOS-ND◊	2.52	21.00	176.40	—	—
	400	—	12	8	2	MJE13009OS-ND	1.79	15.55	119.60	—	—
	400	—	8	8	80	MJE13007OS-ND	1.09	9.48	72.93	—	—
	400	—	4	10	2	MJE13005OS-ND	1.09	9.48	72.93	—	—
	400	500	1	30	2	TIP50OS-ND	1.05	8.40	63.02	—	—
	400	—	5	10	75	BUL45OS-ND	1.14	9.86	75.85	—	—
	400	—	5	10	75	BUL45GOS-ND◊	1.16	10.03	77.13	—	—
	450	—	2	30	50	BUX85OS-ND	1.10	8.82	66.15	—	—
	450	—	2	30	50	BUX85GOS-ND◊	1.12	8.97	67.28	—	—
TO-220FP											
5	90	—	10	20	2	MJF3055OS-ND	1.75	15.17	116.68	—	—
	150	150	8	40	2	MJF15030OS-ND	1.68	14.00	117.60	—	—
	250	350	1	30	2	MJF47OS-ND	1.53	13.27	102.10	—	—

* For Tape and Reel part number, change CT-ND to TR-ND.
‡ For Tape and Box part number, change CT-ND to TB-ND. ◊ ***NEW!* RoHS Compliant**

(Continued)

ON Semiconductor™ Transistors *(Cont.)*

Fig.	V_{CEO} (V)	V_{CB} (V)	I_C (A)	HFE (Min.)	Pd (T_A @ 25°C) (W)	Digi-Key Part No.	Pricing			Tape and Reel*	
							1	10	100	Size	Pricing
						TO-225AA					
6	40	40	1	40	30	2N4921OS-ND	.84	6.72	50.41	—	—
	40	40	1	40	30	2N4921GOS-ND◊	.85	6.83	51.25	—	—
	25	40	5	70	1.5	MJE200OS-ND	.62	4.99	37.42	—	—
	45	45	1.5	25	1.25	BD135OS-ND	.70	5.62	42.11	—	—
	45	45	1.5	25	1.25	BD135GOS-ND◊	.74	5.93	44.49	—	—
	60	60	4	25	40	2N5191OS-ND	.95	7.56	56.70	—	—
	60	60	4	25	40	2N5191GOS-ND◊	.96	7.69	57.67	—	—
	60	60	1	40	30	2N4922OS-ND	.84	6.72	50.41	—	—
	60	60	1	40	30	2N4922GOS-ND◊	.85	6.83	51.25	—	—
	60	60	4	500	1.5	2N6038GOS-ND◊	.86	6.84	51.30	—	—
	80	80	1	40	30	2N4923GOS-ND◊	.85	6.83	51.25	—	—
	80	80	4	20	40	2N5192OS-ND	.84	6.72	50.41	—	—
	80	80	4	20	40	2N5192GOS-ND◊	.85	6.83	51.25	—	—
	60	80	3	30	1.5	MJE181OS-ND	.62	4.99	37.42	—	—
	80	80	4	750	40	MJE802OS-ND	.74	5.88	44.12	—	—
	80	100	1.5	25	1.25	BD139OS-ND	.70	5.62	42.11	—	—
	80	100	1.5	25	1.25	BD139GOS-ND◊	.74	5.93	44.49	—	—
	80	80	4	500	1.5	2N6039OS-ND	.89	7.14	53.57	—	—
	80	80	4	500	1.5	2N6039GOS-ND◊	.86	6.84	51.30	—	—
	100	100	4	750	40	BD681OS-ND	.79	6.30	47.25	—	—
	100	100	4	750	40	BD681GOS-ND◊	.80	6.41	48.06	—	—
	250	275	0.5	25	20	2N5655OS-ND	.71	5.67	42.55	—	—
	250	275	0.5	25	20	2N5655GOS-ND◊	.72	5.77	43.25	—	—
	300	—	0.5	30	20	MJE340OS-ND	.62	4.99	37.42	—	—
	350	375	0.5	25	20	2N5657OS-ND	.74	5.88	44.12	—	—
	350	375	0.5	25	20	2N5657GOS-ND◊	.75	5.98	44.85	—	—
						TO-247					
7	260	260	15	150	150	MJW0281AOS-ND	2.72	23.70	176.49	—	—
						TO-264/TO-3PBL					
8	200	200	15	25	200	MJL3281AGOS-ND◊	3.68	32.07	238.79	—	—
	250	400	16	25	200	MJL21196OS-ND	5.83	50.76	378.00	—	—
	250	400	16	25	200	MJL21196GOS-ND◊	5.56	48.41	360.50	—	—
	250	400	16	25	200	MJL21194OS-ND	4.86	42.30	315.00	—	—
	250	400	16	25	200	MJL21194GOS-ND◊	5.83	50.76	378.00	—	—
	350	350	15	80	230	MJL4281AOS-ND	6.90	63.00	498.00	—	—
	350	350	15	80	230	MJL4281AGOS-ND◊	5.75	52.50	415.00	—	—
						TO-264-5					
9	260	260	15	150	200	NJL3281DOS-ND	7.43	64.63	481.25	—	—
						SOT-23					
10	15	40	0.2	40	.225	MMBT2369ALT1OSCT-ND	—	1.76	11.44	—	—
	25	30	.05	450	.225	MMBT5089LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	25	30	—	60	.225	MMBTH10LT1OSCT-ND	—	1.58	10.92	—	—
	30	35	.05	350	.225	MMBT5088LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	30	30	0.3	5k	.225	MMBTA13LT1OSCT-ND	—	1.76	11.44	—	—
	30	30	0.3	10k	.225	MMBTA14LT1OSCT-ND	—	1.76	11.44	—	—
	30	30	0.1	110	.225	BC848ALT1OSCT-ND	—	1.57	8.82	3,000	23.00/M
	30	30	0.1	110	.225	BC848ALT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	30	30	0.1	200	.225	BC848BLT1OSCT-ND	—	1.57	8.82	3,000	23.00/M
	30	30	0.1	200	.225	BC848BLT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	30	30	0.1	420	.225	BC848CLT1OSCT-ND	—	2.16	12.15	3,000	26.00/M
	30	30	0.1	420	.225	BC848CLT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	45	50	0.5	100	.225	BC817-16LT1OSCT-ND	—	1.16	7.54	3,000	25.00/M
	45	50	0.5	100	.225	BC817-16LT1GOSCT-ND◊	—	1.52	8.55	3,000	26.00/M
	45	50	0.5	160	.225	BC817-25LT1OSCT-ND	—	1.42	8.01	3,000	24.00/M
	45	50	0.5	160	.225	BC817-25LT1GOSCT-ND◊	—	1.52	8.55	3,000	26.00/M
	45	50	0.5	250	.225	BC817-40LT1GOSCT-ND◊	—	1.71	9.63	3,000	29.00/M
	45	50	0.5	100	.225	BCX19LT1OSCT-ND	—	1.64	10.66	3,000	39.00/M
	45	50	0.5	100	.225	BCX19LT1GOSCT-ND◊	—	1.66	10.79	3,000	39.00/M
	45	50	0.1	110	.225	BC847ALT1OSCT-ND	—	1.57	8.82	3,000	23.00/M
	45	50	0.1	110	.225	BC847ALT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	45	50	0.1	200	.225	BC847BLT1OSCT-ND	—	1.57	8.82	3,000	23.00/M
	45	50	0.1	200	.225	BC847BLT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	45	50	0.1	420	.225	BC847CLT1OSCT-ND	—	1.94	10.89	—	—
	45	50	0.1	420	.225	BC847CLT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	45	50	0.1	420	.225	BC850CLT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	50	60	0.2	250	.225	MMBT6428LT1OSCT-ND	—	1.37	9.46	—	—
	60	60	0.5	100	.225	MMBTA05LT1OSCT-ND	—	1.76	11.44	—	—
	60	60	0.1	250	.225	MMBT2484LT1OSCT-ND	—	1.69	10.99	—	—
	65	80	0.1	110	.225	BC846ALT1OSCT-ND	—	1.57	8.82	3,000	23.00/M
	65	80	0.1	110	.225	BC846ALT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	65	80	0.1	200	.225	BC846BLT1OSCT-ND	—	1.57	8.82	—	—
	65	80	0.1	200	.225	BC846BLT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	80	80	0.5	100	.225	MMBT8099LT1OSCT-ND	—	1.14	8.01	3,000	43.00/M
	140	160	0.6	60	.225	MMBT5550LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	140	160	0.6	80	.225	MMBT5551LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
						SOT-223					
11	25	20	1	50	1.5	BCP68T1OSCT-ND	—	2.40	17.24	1,000	96.00
	25	20	1	50	1.5	BCP68T1GOSCT-ND◊	—	3.04	21.38	1,000	97.00
	30	45	3	85	1.7	MMJT9410T1OSCT-ND	—	6.72	50.41	1,000	289.00
	40	75	0.6	50	1.5	PZT2222AT1OSCT-ND	—	2.45	17.64	1,000	98.00
	60	80	2	75	0.8	PZT651T1OSCT-ND	—	2.92	21.02	—	—
	80	90	1	1000	1.25	BSP52T1GOSCT-ND◊	—	3.27	23.51	1,000	118.00
	80	100	1	40	1.5	BCP56T1OSCT-ND	—	2.45	17.64	1,000	98.00
	80	100	1	40	1.5	BCP56T1GOSCT-ND◊	—	3.11	21.91	1,000	100.00
	80	100	1	100	1.5	BCP56-16T1GOSCT-ND◊	—	3.11	21.91	1,000	100.00
	300	300	0.5	25	1.5	PZTA42T1OSCT-ND	—	2.69	19.33	1,000	107.00
	300	300	0.1	50	1.5	BF720T1OSCT-ND	—	3.80	27.32	—	—
	300	300	0.1	50	1.5	BF720T1GOSCT-ND◊	—	3.86	27.76	1,000	139.00
	350	400	1	40	0.8	BSP19AT1GOSCT-ND◊	—	3.86	27.76	1,000	139.00
						SOT-323					
12	40	60	0.2	—	.150	MMBT3904WT1OSCT-ND	—	1.16	7.54	3,000	31.00/M
						SOT-363/SC-88					
13B	40	60	0.2	70	.150	MBT3904DW1T1OSCT-ND	—	1.99	12.94	3,000	47.00/M
	40	60	0.2	70	.150	MBT3904DW1T1GOSCT-ND◊	—	2.02	13.13	3,000	47.00/M
						16-SOIC					
14	40	75	0.5	50	1.0	MMPQ2222AR1OSCT-ND	—	10.80	83.05	500	275.50
	40	60	0.2	50	.800	MMPQ3904OS-ND	1.25	10.80	83.05	—	—
						SC-75					
17	45	50	0.1	200	.200	BC847BTT1OSCT-ND	—	1.53	9.95	3,000	27.00/M
	45	50	0.1	200	.200	BC847BTT1GOSCT-ND◊	—	1.90	10.71	3,000	32.00/M
	40	60	0.2	—	.200	MMBT3904TT1OSCT-ND	—	1.15	7.96	3,000	36.00/M
						DPAK					
18	80	—	8	60	1.75	MJD44H11-001OS-ND	—	6.72	50.41	—	—
	100	100	3	25	1.5	MJD31CT4OSCT-ND	—	5.37	40.29	—	—
	100	100	4	40	1.4	MJD243T4OSCT-ND	—	6.72	50.41	—	—
	250	350	1	30	1.56	MJD47T4OSCT-ND	—	6.09	45.71	2,500	241.00/M
						PNP					
						TO-3					
1	60	60	25	35	200	2N5883OS-ND	3.89	33.84	252.00	—	—
	60	60	25	35	200	2N5883GOS-ND◊	3.65	31.73	236.25	—	—
	80	80	25	35	200	2N5884OS-ND	3.78	32.90	245.00	—	—
	80	80	25	35	200	2N5884GOS-ND◊	3.65	31.73	236.25	—	—
	80	80	50	15	300	2N5684OS-ND	7.82	71.40	564.40	—	—
	80	80	50	15	300	2N5684GOS-ND◊	7.82	71.40	564.40	—	—
	100	100	12	750	150	2N6052OS-ND	5.13	44.65	332.50	—	—
	100	100	12	750	150	2N6052GOS-ND◊	5.13	44.65	332.50	—	—
	120	120	30	1K	200	MJ11015OS-ND	3.65	31.80	236.85	—	—
	120	200	15	—	180	MJ15016OS-ND	2.89	25.15	187.25	—	—
	140	140	20	25	250	MJ15004OS-ND	3.78	32.90	245.00	—	—
	250	400	16	15	250	MJ15025GOS-ND◊	4.05	35.25	262.50	—	—
	250	400	16	25	250	MJ21193GOS-ND◊	4.05	35.25	262.50	—	—
	250	400	16	25	250	MJ21195OS-ND	5.81	50.53	376.25	—	—
	250	400	16	25	250	MJ21195GOS-ND◊	3.78	32.90	245.00	—	—
						TO-92					
2B	25	25	0.2	120	.625	MPS4126RLRAOSCT-ND	—	2.14	13.91	2,000	58.00/M
	30	30	0.5	5K	.625	MPSA63RLRAOSCT-ND	—	1.96	12.74	—	—
	30	30	0.5	10K	.625	MPSA64OS-ND	.33	1.96	12.74	—	—
	40	40	0.6	60	.625	2N4403RLRAOSCT-ND	—	1.58	10.27	2,000	43.00/M
	40	40	0.6	60	.625	2N4403RLRAGOSCT-ND◊	—	1.60	10.40	2,000	43.00/M
	40	40	0.2	80	.250	2N3906RLRAGOSCT-ND◊	—	2.27	12.78	2,000	46.00/M
	40	40	—	250	.625	MPS4250ARLRMOSCT-ND‡	—	2.10	13.65	2,000	57.00/M
	40	30	1	50	.625	MPS6652OS-ND	.39	2.63	18.20	—	—
2A	45	50	0.8	100	.625	BC327OS-ND	.28	1.64	10.66	—	—
	45	50	0.8	100	.625	BC327GOS-ND◊	.28	1.66	10.79	—	—
2B	50	50	0.05	250	.625	2N5087RLRAOSCT-ND	—	1.94	12.61	—	—
	50	50	0.05	250	.625	2N5087RLRAGOSCT-ND◊	—	1.99	12.94	2,000	54.00/M
	60	80	2	75	.625	MPS751RLRAOSCT-ND	—	2.56	18.00	2,000	94.00/M
	60	60	0.5	100	.600	MPSA55RLRAOSCT-ND	—	1.96	12.74	2,000	53.00/M
	60	60	0.6	100	.625	PN2907ARLRAOSCT-ND	—	1.69	10.99	2,000	46.00/M
	60	60	0.6	100	.625	MPS2907ARLRAOSCT-ND	—	1.85	12.03	2,000	50.00/M
	60	60	0.5	100	.625	MPS8598RLRAOSCT-ND	—	2.45	17.00	2,000	75.00/M
	150	160	0.6	50	.625	2N5401RLRAOSCT-ND	—	1.94	12.61	—	—
	150	160	0.6	50	.625	2N5401RLRAGOSCT-ND◊	—	1.99	12.94	2,000	54.00/M
	350	350	0.5	20	.625	2N6520RLRAOSCT-ND	—	3.50	24.64	2,000	112.00/M
	350	350	0.5	20	.625	2N6520RLRAGOSCT-ND◊	—	3.56	25.08	2,000	114.00/M
						TO-218AC					
3	100	100	10	1K	3.5	TIP147OS-ND	2.45	20.42	171.51	—	—
	100	100	25	25	125	TIP36COS-ND	2.84	24.68	183.75	—	—
	160	160	16	15	125	MJE4353OS-ND	3.78	32.90	245.00	—	—
						TO-220AB					
4	30	40	7	30	40	2N6111OS-ND	1.14	9.86	75.85	—	—
	30	40	7	30	40	2N6111GOS-ND◊	1.16	10.03	77.13	—	—
	40	40	3	25	2	TIP32OS-ND	.68	5.41	40.55	—	—
	40	40	1	40	2	TIP30OS-ND	.74	5.88	44.12	—	—
	50	60	7	30	40	2N6109GOS-ND◊	1.16	10.03	77.13	—	—
	60	60	3	25	2	TIP32AOS-ND	.68	5.41	40.55	—	—
	60	60	8	1K	75	2N6040GOS-ND◊	1.09	8.71	65.34	—	—
	60	60	10	1K	2	2N6667OS-ND	1.14	9.86	75.85	—	—
	60	60	10	1K	2	2N6667GOS-ND◊	1.16	10.03	77.13	—	—
	60	—	10	60	50	D45H8GOS-ND◊	1.25	10.80	83.05	—	—
	60	70	10	20	75	MJE2955TOS-ND	1.01	8.72	67.10	—	—
	70	80	7	30	40	2N6107OS-ND	.96	8.34	64.18	—	—
	70	80	7	30	40	2N6107GOS-ND◊	.98	8.48	65.25	—	—
	80	—	10	60	50	D45H11GOS-ND◊	1.25	10.80	83.05	—	—
	80	90	15	20	1.8	2N6491OS-ND	1.11	9.63	74.10	—	—
	80	90	15	20	1.8	2N6491GOS-ND◊	1.13	9.80	75.35	—	—
	80	—	15	35	83	D45VH10GOS-ND◊	1.31	11.38	87.50	—	—
	100	100	15	1K	85	BDW47OS-ND	1.31	11.38	87.50	—	—
	100	100	15	1K	85	BDW47GOS-ND◊	1.34	11.57	89.00	—	—
	100	100	8	1K	75	2N6042OS-ND	1.07	8.57	64.26	—	—
	100	100	8	1K	75	2N6042GOS-ND◊	1.09	8.71	65.34	—	—
	100	100	2	1K	2	TIP117OS-ND	.95	7.56	56.70	—	—
	100	100	1	40	2	TIP30COS-ND	.74	5.88	44.12	—	—
	100	100	5	1K	2	TIP127OS-ND	.96	8.34	64.18	—	—
	100	100	3	25	2	TIP32COS-ND	.68	5.41	40.55	—	—
	120	120	8	40	2	MJE15029OS-ND	1.58	13.65	105.00	—	—
	150	150	8	40	2	MJE15031OS-ND	1.58	13.65	105.00	—	—
	250	250	8	50	2	MJE15033GOS-ND◊	1.43	12.35	95.00		
	350	350	4	100	2	MJE15035OS-ND	2.52	21.00	176.40	—	—
	350	350	4	100	2	MJE15035GOS-ND◊	2.52	21.00	176.40	—	—
	375	375	1	30	2	MJE5731AOS-ND	1.53	13.27	102.10	—	—
	400	—	8	15	80	MJE5852OS-ND	2.99	26.05	193.97	—	—
						TO-220FP					
5	100	100	5	1K	2	MJF127OS-ND	1.09	9.48	72.93	—	—
	150	150	8	40	2	MJF15031OS-ND	1.68	14.00	117.60	—	—
						TO-225AA					
6	40	40	1	40	30	2N4918OS-ND	.84	6.72	50.41	—	—
	40	40	1	40	30	2N4918GOS-ND◊	.85	6.83	51.25	—	—
	40	40	4	—	1.5	2N6034GOS-ND◊	.90	7.20	54.00	—	—
	45	45	1.5	25	1.25	BD136GOS-ND◊	.73	5.80	43.50	—	—
	60	60	4	25	40	2N5194GOS-ND◊	.86	6.84	51.30	—	—
	60	60	4	750	40	MJE700OS-ND	.74	5.88	44.12	—	—
	80	80	4	20	40	2N5195OS-ND	.84	6.72	50.41	—	—
	80	80	4	20	40	2N5195GOS-ND◊	.85	6.83	51.25	—	—
	80	80	1	10	30	2N4920GOS-ND◊	.85	6.83	51.25	—	—
	60	80	3	30	1.5	MJE171OS-ND	.62	4.99	37.42	—	—
	80	100	1.5	25	1.25	BD140GOS-ND◊	.73	5.80	43.50	—	—
	80	80	4	500	1.5	2N6036OS-ND	.84	6.72	50.41	—	—

* For Tape and Reel part number, change CT-ND to TR-ND.
‡ For Tape and Box part number, change CT-ND to TB-ND. ◊ ***NEW!*** ***RoHS Compliant***

(Continued)

ON Semiconductor™ Transistors *(Cont.)*

Fig.	V_{CEO} (V)	V_{CB} (V)	I_C (A)	HFE (Min.)	Pd (T_A @ 25°C) (W)	Digi-Key Part No.	Pricing			Tape and Reel*	
							1	10	100	Size	Pricing
6	80	80	4	500	1.5	2N6036GOS-ND◊	.85	6.83	51.25	—	—
	80	100	3	30	1.5	MJE172OS-ND	.62	4.99	37.42	—	—
	100	100	4	750	40	BD682OS-ND	.79	6.30	47.25	—	—
	100	100	4	750	40	BD682GOS-ND◊	.80	6.41	48.06	—	—
	100	100	4	40	1.5	MJE253OS-ND	.71	5.67	42.55	—	—
	300	—	0.5	30	20	MJE350OS-ND	.62	4.99	37.42	—	—
TO-247											
7	260	260	15	150	150	MJW0302AOS-ND	2.72	23.70	176.49	—	—
TO-264/TO-3PBL											
8	200	200	15	60	200	MJL1302AGOS-ND◊	3.68	32.07	238.79	—	—
	250	400	16	25	200	MJL21195OS-ND	5.83	50.76	378.00	—	—
	250	400	16	25	200	MJL21195GOS-ND◊	5.56	48.41	360.50	—	—
	250	400	16	25	200	MJL21193OS-ND	5.83	50.76	378.00	—	—
	250	400	16	25	200	MJL21193GOS-ND◊	5.83	50.76	378.00	—	—
	350	350	15	80	230	MJL4302AGOS-ND◊	5.75	52.50	415.00	—	—
TO-264-5											
9	260	260	15	150	200	NJL1302DOS-ND	7.43	64.63	481.25	—	—
SOT-23											
10	25	25	0.2	120	.225	MMBT4126LT1OSCT-ND	—	1.27	8.26	3,000	34.00/M
	30	30	0.5	5K	.225	MMBTA63LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	30	30	0.5	10K	.225	MMBTA64LT1OSCT-ND	—	1.76	11.44	—	—
	30	30	0.1	420	.225	BC858CLT1OSCT-ND	—	1.94	10.89	3,000	26.00/M
	30	30	0.1	420	.225	BC858CLT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	45	50	0.5	100	.225	BCX17LT1OSCT-ND	—	1.64	10.66	3,000	39.00/M
	45	50	0.5	100	.225	BCX17LT1GOSCT-ND◊	—	1.66	10.79	3,000	39.00/M
	45	50	0.1	220	.225	BC857BLT1OSCT-ND	—	1.57	8.82	3,000	23.00/M
	45	50	0.1	220	.225	BC857BLT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	45	50	0.5	160	.225	BC807-25LT1OSCT-ND	—	1.16	7.54	3,000	25.00/M
	45	50	0.5	160	.225	BC807-25LT1GOSCT-ND◊	—	1.52	8.55	3,000	26.00/M
	45	50	0.5	250	.225	BC807-40LT1OSCT-ND	—	1.21	7.87	—	—
	45	50	0.5	250	.225	BC807-40LT1GOSCT-ND◊	—	1.81	10.17	3,000	31.00/M
	60	60	0.5	100	.225	MMBTA55LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
	65	80	0.1	125	.225	BC856ALT1OSCT-ND	—	1.57	8.82	—	—
	65	80	0.1	125	.225	BC856ALT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	65	80	0.1	220	.225	BC856BLT1OSCT-ND	—	1.57	8.82	3.000	23.00/M
	65	80	0.1	220	.225	BC856BLT1GOSCT-ND◊	—	1.57	8.82	3,000	26.00/M
	80	80	0.5	100	.225	MMBTA56LT1OSCT-ND	—	1.76	11.44	—	—
	300	300	0.5	25	.225	MMBTA92LT1OSCT-ND	—	1.76	11.44	3,000	41.00/M
SOT-223											
11	20	25	1	50	1.5	BCP69T1OSCT-ND	—	2.40	17.24	1,000	96.00
	20	25	1	50	1.5	BCP69T1GOSCT-ND◊	—	3.04	21.38	1,000	97.00
	60	80	2	75	0.8	PZT751T1OSCT-ND	—	2.92	21.02	—	—
	80	100	1.5	40	1.5	BCP53T1OSCT-ND	—	2.45	17.64	—	—
	80	100	1.5	40	1.5	BCP53T1GOSCT-ND◊	—	3.11	21.91	1,000	100.00
Dual SOT-363/SC-88											
13B	40	40	0.2	80	.150	MBT3906DW1T1GOSCT-ND◊	—	2.02	13.13	3,000	47.00/M
DPAK											
18	60	70	10	20	1.75	MJD2955T4OSCT-ND	—	7.56	56.70	—	—
	100	100	6	30	1.75	MJD42CT4OSCT-ND	—	7.56	56.70	—	—
	100	100	8	1K	1.75	MJD127T4OSCT-ND	—	8.40	63.02	2,500	333.00/M
	100	100	3	25	1.56	MJD32CT4OSCT-ND	—	5.60	42.00	—	—
	300	300	0.5	30	1.56	MJD350T4OSCT-ND	—	5.41	40.55	2,500	214.00/M
NPN/PNP											
SOT-363/SC-88											
13B	40/ -40	60/ -40	0.2/ -0.2	70/ 80	.150	MBT3946DW1T1OSCT-ND	—	1.99	12.94	3,000	47.00/M
	40/ -40	60/ -40	0.2/ -0.2	70/ 80	.150	MBT3946DW1T1GOSCT-ND◊	—	2.02	13.13	3,000	47.00/M

Pre-Biased Transistors

Fig.	V_{CB} (V)	V_{CEO} (V)	HFE (Min.)	R1 (K)	R2 (K)	Digi-Key Part No.	Pricing		Tape and Reel*	
							10	100	Size	Pricing
NPN										
SOT-23										
10	50	50	60	22	22	MMUN2212LT1OSCT-ND	1.16	7.54	3,000	25.00/M
	50	50	80	47	47	MMUN2213LT1OSCT-ND	1.16	7.54	3,000	25.00/M
	50	50	160	4.7	∞	MMUN2216LT 1OSCT-ND	1.16	7.54	3,000	25.00/M
	50	50	15	4.7	4.7	MMUN2232LT1OSCT-ND	1.16	7.54	3,000	25.00/M
	50	50	80	4.7	47	MMUN2233LT1OS CT-ND	.92	5.98	3,000	25.00/M
SC-59										
15	50	50	35	10	10	MUN2211T1OSCT-ND	1.21	7.87	3,000	30.00/M
	50	50	60	22	22	MUN2212T1OSCT-ND	1.21	7.87	3,000	30.00/M
	50	50	80	47	47	MUN2213T1OSCT-ND	1.21	7.87	3,000	30.00/M
	50	50	80	10	47	MUN2214T1OSCT-ND	1.21	7.87	3,000	30.00/M
SC-75										
17	50	50	80	47	47	DTC144EET1OSCT-ND	1.40	9.10	3,000	33.00/M
	50	50	80	47	47	DTC144EET1GOSCT-ND◊	2.00	11.25	3,000	34.00/M
SOT-563										
20C	50	50	35	10	10	NSBC114EDXV6TOSCT-ND	4.00	28.80	—	—
	50	50	35	10	10	NSBC114EDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
	50	50	60	22	22	NSBC124EDXV6TOSCT-ND	4.00	28.80	—	—
	50	50	60	22	22	NSBC124EDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
	50	50	80	10	47	NSBC114YDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	80	10	47	NSBC114YDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
	50	50	160	10	∞	NSBC114TDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	160	10	∞	NSBC114TDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
	50	50	80	2.2	47	NSBC123JDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	80	2.2	47	NSBC123JDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M

Fig.	V_{CB} (V)	V_{CEO} (V)	HFE (Min.)	R1 (K)	R2 (K)	Digi-Key Part No.	Pricing		Tape and Reel*	
							10	100	Size	Pricing
NPN/PNP										
SOT-363										
13A	50	50	35	10	10	MUN5311DW1T1OSCT-ND	1.76	12.17	3000	54.00/M
SC-74										
16	50	60	0.2	—	.325	NUS2401SNT1OSCT-ND	6.26	48.15	—	—
SOT-553										
19B	50	50	60	22	1	EMC2DXV5T1OSCT-ND	4.00	28.80	4,000	79.00/M
	50	50	60	22	1	EMC2DXV5T1GOSCT-ND◊	2.97	20.90	4,000	86.00/M
	50	50	20	4.7	.47	EMC5DXV5T1OSCT-ND	4.00	28.80	4,000	79.00/M
	50	50	20	4.7	.47	EMC5DXV5T1GOSCT-ND◊	2.97	20.90	4,000	86.00/M
SOT-563										
20B	50	50	35	10	10	NSBC114EPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	35	10	10	NSBC114EPDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
	50	50	60	22	22	NSBC124EPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	60	22	22	NSBC124EPDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
	50	50	80	47	47	NSBC144EPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	80	47	47	NSBC144EPDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
	50	50	80	10	47	NSBC114YPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	80	10	47	NSBC114YPDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
	50	50	160	4.7	∞	NSBC143TPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	160	4.7	∞	NSBC143TPDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
	50	50	80	2.2	47	NSBC123JPDXV6OSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	80	2.2	47	NSBC123JPDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
PNP Channel										
SOT-23										
10	50	50	30	10	10	MMUN2111LT1OSCT-ND	.92	5.98	—	—
	50	50	80	47	47	MMUN2113LT1OSCT-ND	1.16	7.54	3,000	25.00/M
	50	50	80	10	47	MMUN2114LT1OSCT-ND	1.16	7.54	3,000	25.00/M
SC-59										
15	50	50	35	10	10	MUN2111T1OSCT-ND	1.21	7.87	—	—
SOT-553										
19A	50	50	160	47	∞	EMA6DXV5T1OSCT-ND	4.00	28.80	4,000	79.00/M
	50	50	160	47	∞	EMA6DXV5T1GOSCT-ND◊	2.97	20.90	4,000	86.00/M
SOT-563										
20A	50	50	160	10	∞	NSBA114TDXV6TOSCT-ND	4.00	28.80	4,000	136.00/M
	50	50	160	10	∞	NSBA114TDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
	50	50	160	4.7	∞	NSBA143TDXV6TOSCT-ND	4.00	28.80	—	—
	50	50	160	4.7	∞	NSBA143TDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M
	50	50	80	2.2	47	NSBA123JDXV6TOSCT-ND	4.00	28.80	—	—
	50	50	80	2.2	47	NSBA123JDXV6T1GOSCT-ND◊	3.11	21.91	4,000	90.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ‡ For Tape and Box part number, change CT-ND to TB-ND.
◊ ***NEW!*** ***RoHS Compliant***

Transistors

RoHS Compliant Parts Available

Fig. 1 — TO-39

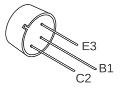

Fig. 2 — TO-18

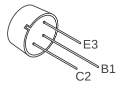

Fig. 3 — TO-3

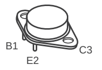

Fig. 4 — TO-92

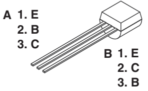

Fig. 5 — SOT-32

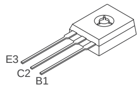

Fig. 6 — TO-220

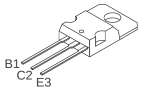

Fig. 7 — SOT-23

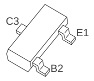

Fig. 8 — TO-218

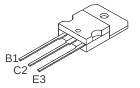

Fig. 9 — ISOWATT218

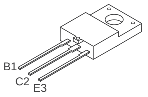

Fig. 10 — TO-247

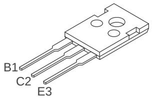

Fig. 11 — ISOTOP

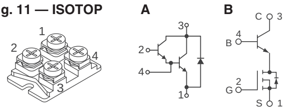

Fig. 12 — TO-247-4L

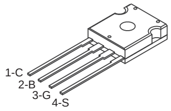

Fig. 13 — IPAK

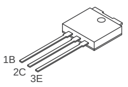

Fig. 14 — SOT-89

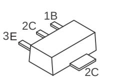

Fig. 15 — DPAK

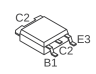

Fig. 16 — SOT-223

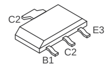

Fig. 17 — TO-220FP

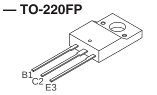

Fig. 18 — 8-SOIC

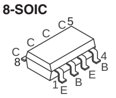

Fig.	V_{CB} (V)	I_C (A)	HFE Min.	Package	Digi-Key Part No.	Tube Pricing			Mfg. Part No.
						1	10	100	
NPN									
1	75	0.5	70	TO-39	497-3105-5-ND	1.04	8.28	62.10	2N1613
	75	0.5	100	TO-39	497-2594-5-ND	.90	7.80	60.00	2N1711
	120	0.5	40	TO-39	497-2637-5-ND	.90	7.80	60.00	2N1893
	120	1	40	TO-39	497-2636-5-ND	1.17	9.36	70.20	2N2102
	140	1	100	TO-39	497-2634-5-ND	1.35	10.80	81.00	2N3019

◊ Bulk   * Cut Tape   † Tape and Reel   § Tape and Box

(Continued)

Transistors *(Cont.)*

Fig.	V_{CB} (V)	I_C (A)	HFE Min.	Package	Digi-Key Part No.	Tube Pricing			Mfg. Part No.
						1	10	100	
1	450	1A	40	TO-39	497-2576-5-ND	1.24	10.73	82.50	2N3439
	300	1	40	TO-39	497-2626-5-ND	1.13	9.75	75.00	2N3440
	120	5	40	TO-39	497-2635-5-ND	2.13	17.75	149.10	BFX34
	75	0.6	100	TO-39	497-2595-5-ND	1.08	8.64	64.80	2N2219A
2	30	0.8	150	TO-18	497-3106-5-ND	.99	7.92	59.40	2N2222
	75	0.6	40	TO-18	497-2598-5-ND	.86	6.84	51.30	2N2222A
	80	1	90	TO-18	497-3108-5-ND	1.09	9.43	72.50	2N3700
	80	0.5	40	TO-18	497-3112-5-ND	1.46	12.68	97.50	2N720A
	45	0.1	110	TO-18	497-3116-5-ND	1.50	13.00	100.00	BC107
3	100	15	20	TO-3	497-2612-5-ND	1.68	14.00	117.60	2N3055
	40	30	15	TO-3	497-2584-5-ND	2.64	22.00	184.80	2N3771
	60	20	15	TO-3	497-2597-5-ND	3.00	25.00	210.00	2N3772
	100	12	750	TO-3	497-2561-5-ND	2.67	22.28	187.11	2N6059
	100	20	750	TO-3	497-2563-5-ND	3.92	34.08	253.75	2N6284
	850	15	6	TO-3	497-2592-5-ND	5.00	43.48	323.75	2N6547
	300	60	20	TO-3	497-2633-5-ND	18.40	170.20	1288.00	BUR51
	80	10	1,000	TO-3	497-2393-ND◊	2.58	21.50	180.60	MJ3001
	400	15	300	TO-3	497-3129-5-ND	3.51	30.55	227.50	BU941
	450	30	—	TO-3	497-4086-5-ND	7.59	69.30	547.80	BUF420M
	700	8	—	TO-3	497-2412-ND◊	2.97	25.85	192.50	BU208A
4A	60	5	400	TO-92	497-3531-ND◊	1.13	9.75	75.00	STSA1805
	60	5	400	TO-92	497-3532-1-ND*	1.13	9.75	75.00	STSA1805-AP
	60	5	400	TO-92	497-3532-3-ND§	870.00/2,000			STSA1805-AP
	75	0.6	100	TO-92	497-2406-ND◊	.43	2.50	16.25	PN2222A
	150	5	300	TO-92	497-3235-ND◊	.99	7.92	59.40	STSA851
	300	0.5	40	TO-92	497-2407-ND◊	.26	1.80	12.48	STPSA42
4B	400	3	10	TO-92	497-4429-ND◊	.70	5.60	42.00	STX13005
5	100	3	12	SOT-32	497-2590-5-ND	.66	5.28	39.60	MJE182
	300	0.5	30	SOT-32	497-2624-5-ND	.72	5.72	42.90	MJE340
	40	4	40	SOT-32	497-2583-5-ND	.75	5.96	44.70	MJE521
	80	4	100	SOT-32	497-2549-5-ND	.69	5.54	41.58	MJE802
	80	1	30	SOT-32	497-3109-5-ND	.99	7.92	59.40	2N4923
	60	4	25	SOT-32	497-2601-5-ND	.94	8.13	62.50	2N5191
	80	4	20	SOT-32	497-2591-5-ND	.98	8.45	65.00	2N5192
	80	4	750	SOT-32	497-2560-5-ND	.86	6.84	51.30	2N6039
	60	3	30	SOT-32	497-4821-5-ND ***NEW!***	.74	5.94	44.55	2SD882
	60	4	750	SOT-32	497-2600-5-ND	1.13	9.75	75.00	BD677A
6	80	10	1,000	TO-220	497-2562-5-ND	1.16	10.08	77.50	2N6388
	100	6	15	TO-220	497-2632-5-ND	1.20	10.40	80.00	BD243C
	700	8	6	TO-220	497-3510-ND◊	1.50	13.00	100.00	ST13009
	800	4	12	TO-220	497-2638-5-ND	1.68	14.03	117.81	BUL216
	400	4	16	TO-220	497-3130-5-ND	1.43	12.35	95.00	BUL742A
	400	4	8	TO-220	497-3149-5-ND	1.24	10.73	82.50	ST13005
	450	10	8	TO-220	497-2581-5-ND	1.08	8.64	64.80	BUL38D
	350	15	300	TO-220	497-2740-5-ND	3.15	27.40	204.05	BU941ZT
	400	10	300	TO-220	497-2797-5-ND	2.81	23.38	196.35	BU931T
	60	10	40	TO-220	497-2574-5-ND	1.16	10.01	77.00	D44H8
	80	10	40	TO-220	497-2616-5-ND	1.03	8.94	68.75	D44H11
	70	10	20	TO-220	497-2573-5-ND	.84	6.73	50.49	MJE3055T
	60	2	1,000	TO-220	497-2545-5-ND	.86	6.84	47.50	TIP110
	100	2	1,000	TO-220	497-2533-5-ND	.77	6.12	45.90	TIP112
	60	5	1,000	TO-220	497-2539-5-ND	.74	5.94	44.55	TIP120
	80	5	1,000	TO-220	497-2537-5-ND	.94	7.52	56.43	TIP121
	100	5	1,000	TO-220	497-2543-5-ND	.77	6.12	45.90	TIP122
	60	1	15	TO-220	497-2580-5-ND	.86	6.84	51.30	TIP29A
	100	1	15	TO-220	497-2611-5-ND	.75	5.96	44.70	TIP29C
	60	3	10	TO-220	497-2602-5-ND	.69	5.54	41.58	TIP31A
	100	3	10	TO-220	497-2615-5-ND	.69	5.54	41.58	TIP31C
	100	6	15	TO-220	497-2622-5-ND	.95	7.56	52.50	TIP41C
	100	6	30	TO-220	497-4635-5-ND	.72	5.76	43.20	TIP41CN
	350	1	30	TO-220	497-2631-5-ND	.77	6.12	45.90	TIP47
	400	1	30	TO-220	497-2627-5-ND	.84	6.73	50.49	TIP48
	450	1	30	TO-220	497-2625-5-ND	1.03	8.94	68.75	TIP49
	500	1	15	TO-220	497-2605-5-ND	.74	5.94	44.55	TIP50
	100	8	1,000	TO-220	497-2546-5-ND	.95	7.56	56.70	TIP102
7	50	0.5	250	SOT-23	497-2531-1-ND*	.33	1.76	9.90	BC817-40
	50	0.5	250	SOT-23	497-2531-2-ND†	90.00/3,000			BC817-40
	50	0.1	200	SOT-23	497-2524-1-ND*	.18	1.20	8.32	BC847B
	50	0.1	200	SOT-23	497-2524-2-ND†	96.00/3,000			BC847B
	60	0.2	100	SOT-23	497-2478-1-ND*	.33	2.25	15.60	MMBT3904
	60	0.2	100	SOT-23	497-2478-2-ND†	180.00/3,000			MMBT3904
	300	0.1	25	SOT-23	497-4650-1-ND* ***NEW!***	.46	2.70	17.55	S0642
	300	0.1	25	SOT-23	497-4650-2-ND† ***NEW!***	189.00/3,000			S0642
	300	0.5	40	SOT-23	497-2480-1-ND*	.23	1.58	10.92	MMBTA42
	300	0.5	40	SOT-23	497-2480-2-ND†	147.00/3,000			MMBTA42
8	100	15	750	TO-218	497-2607-5-ND	3.00	25.00	210.00	BDW83C
	100	10	1,000	TO-218	497-2541-5-ND	1.68	14.00	117.60	TIP142
	100	15	20	TO-218	497-2586-5-ND	1.76	15.28	117.50	TIP3055
	140	10	20	TO-218	497-2614-5-ND	1.80	15.00	126.00	TIP33C
	100	25	15	TO-218	497-2609-5-ND	1.74	14.50	121.80	TIP35C
	100	25	25	TO-218	497-4633-5-ND	2.16	18.00	151.20	TIP35CW
	450	15	—	TO-218	497-2544-5-ND	3.27	28.44	211.75	BUV48A
	700	8	—	TO-218	497-2599-5-ND	2.97	24.75	207.90	BU508A
	400	15	300	TO-218	497-3128-5-ND	2.97	24.75	207.90	BU931P
9	350	15	300	ISOWATT-218	497-2542-5-ND	4.01	34.90	259.88	BU941ZPFI
	600	10	4		497-3150-5-ND	2.88	24.00	201.60	ST1802HI
	800	24	6.5		497-4646-5-ND ***NEW!***	3.51	30.55	227.50	HD1750FX
10	450	24	—	TO-247	497-2575-5-ND	8.86	80.85	639.10	BUX98APW
	450	30	—	TO-247	497-4085-5-ND	6.79	61.95	489.70	BUX420AW
	900	12	10	TO-247	497-3555-ND◊	1.50	12.50	105.00	STW13009
11A	450	84	120	ISOTOP	497-2648-5-ND	57.75	495.00	4389.00	ESM6045DV
11B	1000	50	—	ISOTOP	497-3567-5-ND	37.80	329.00	2450.00	STE50DE100
12	1700	3	3.5	TO247-4L	497-3517-5-ND	6.44	58.80	464.80	STC03DE170
13	60	5	200	I-PAK	497-3518-5-ND	.94	8.13	62.50	STD1805-1
14	140	1.5	40	SOT-89	497-4656-1-ND* ***NEW!***	1.84	15.93	122.50	STF715
	140	1.5	40	SOT-89	497-4656-2-ND† ***NEW!***	1630.00/2,500			STF715
	400	1	5	SOT-89	497-3521-1-ND	.50	4.00	30.00	STFN42
	400	1	5	SOT-89	497-3521-2-ND	375.00/2500			STFN42
15	100	2	1,000	DPAK	497-2462-1-ND*	.81	6.48	48.60	MJD112T4
	100	2	1,000	DPAK	497-2462-2-ND†	642.50/2,500			MJD112T4
	100	5	1,000	DPAK	497-2469-1-ND*	.86	6.84	51.30	MJD122T4
	100	5	1,000	DPAK	497-2469-2-ND†	677.50/2,500			MJD122T4
	100	3	10	DPAK	497-2484-1-ND*	.94	8.13	62.50	MJD31CT4
	100	3	10	DPAK	497-2484-2-ND†	537.50/2,500			MJD31CT4
	80	8	40	DPAK	497-2504-1-ND*	.79	6.34	47.52	MJD44H11T4
	80	8	40	DPAK	497-2504-2-ND†	627.50/2,500			MJD44H11T4
	350	1	30	DPAK	497-2482-1-ND*	.84	6.73	50.49	MJD47T4
	350	1	30	DPAK	497-2482-2-ND†	665.00/2,500			MJD47T4
	500	1	30	DPAK	497-2473-1-ND*	.95	7.56	56.70	MJD50T4
16	150	5	300	SOT-223	497-3179-1-ND*	.75	6.01	45.09	STN851
	150	5	300	SOT-223	497-3179-2-ND†	259.00/1,000			STN851
	80	1.5	40	SOT-223	497-3178-1-ND*	.72	5.76	43.20	STN715
	80	1.5	40	SOT-223	497-3178-2-ND†	248.00/1,000			STN715
17	350	15	300	TO-220FP	497-4641-5-ND ***NEW!***	3.65	31.73	236.25	BU941ZTFP
PNP									
1	80	1	100	TO-39	497-2582-5-ND	1.28	11.05	85.00	2N4033
	200	1	30	TO-39	497-2593-5-ND	1.20	10.40	80.00	2N5415
	350	1	30	TO-39	497-2596-5-ND	1.20	10.37	79.75	2N5416
	60	0.6	40	TO-39	497-2572-5-ND	1.05	9.10	70.00	2N2905A
2	60	0.6	40	TO-18	497-2577-5-ND	.86	6.84	51.30	2N2907A
	60	0.6	50	TO-18	497-2910-5-ND	.86	6.84	51.30	2N2907
3	100	20	750	TO-3	497-2548-5-ND	3.56	31.02	231.00	2N6287
	80	10	1,000	TO-3	497-2392-ND◊	2.61	21.75	182.70	MJ2501
4A	60	0.2	100	TO-92	497-2404-ND◊	.33	2.25	15.60	2N3906
	60	0.6	100	TO-92	497-2403-ND◊	.42	2.24	12.60	PN2907A
4B	60	3	100	TO-92	497-4430-1-ND*	.60	4.80	36.00	STX790A-AP
	60	3	100	TO-92	497-4430-3-ND§	360.00/2,000			STX790A-AP
5	100	3	12	SOT-32	497-2553-5-ND	.65	5.20	35.10	MJE172
	40	5	45	SOT-32	497-2589-5-ND	.66	5.28	39.60	MJE210
	300	0.5	30	SOT-32	497-2630-5-ND	.68	5.40	37.50	MJE350
	80	4	20	SOT-32	497-2585-5-ND	.99	7.92	59.40	2N5195
	80	4	750	SOT-32	497-2540-5-ND	.95	7.56	56.70	2N6036
	60	3	30	SOT-32	497-4829-5-ND ***NEW!***	.74	5.94	44.55	2SB772
6	40	7	30	TO-220	497-2613-5-ND	1.05	9.10	70.00	2N6111
	80	10	1,000	TO-220	497-2535-5-ND	1.11	9.65	74.25	2N6668
	45	10	40	TO-220	497-2587-5-ND	1.44	12.51	96.25	D45H5
	60	10	40	TO-220	497-2579-5-ND	1.05	9.10	70.00	D45H8
	80	10	40	TO-220	497-2578-5-ND	1.08	8.64	64.80	D45H11
	70	10	20	TO-220	497-2621-5-ND	1.04	8.32	62.37	MJE2955T
	60	8	1,000	TO-220	497-2536-5-ND	.90	7.20	54.00	TIP105
	60	2	1,000	TO-220	497-2619-5-ND	.84	6.73	50.49	TIP115
	100	2	1,000	TO-220	497-2559-5-ND	.77	6.12	45.90	TIP117
	60	5	1,000	TO-220	497-2618-5-ND	.81	6.48	45.00	TIP125
	80	5	1,000	TO-220	497-2570-5-ND	.86	6.84	51.30	TIP126
	100	5	1,000	TO-220	497-2571-5-ND	.77	5.53	42.50	TIP127
	60	1	15	TO-220	497-2610-5-ND	.86	6.84	47.50	TIP30A
	100	1	15	TO-220	497-2588-5-ND	.72	5.76	40.00	TIP30C
	60	3	10	TO-220	497-2538-5-ND	.72	5.76	40.00	TIP32A
	100	3	10	TO-220	497-2628-5-ND	.72	5.76	40.00	TIP32C
	60	6	15	TO-220	497-2552-5-ND	1.04	8.32	62.37	TIP42A
	100	6	15	TO-220	497-2629-5-ND	.86	6.84	51.30	TIP42C
	100	6	30	TO-220	497-4636-5-ND	.72	5.76	43.20	TIP42CN
	100	8	1,000	TO-220	497-2606-5-ND	.99	7.92	59.40	TIP107
7	60	0.6	100	SOT-23	497-2498-1-ND*	.32	1.90	12.35	MMBT2907A
	60	0.6	100	SOT-23	497-2498-2-ND†	135.00/3,000			MMBT2907A
	60	0.2	100	SOT-23	497-2503-1-ND*	.33	2.25	15.60	MMBT3906
	60	0.2	100	SOT-23	497-2503-2-ND†	180.00/3,000			MMBT3906
	300	0.1	25	SOT-23	497-4651-1-ND* ***NEW!***	.49	2.90	18.85	S0692
	300	0.1	25	SOT-23	497-4651-2-ND† ***NEW!***	204.00/3,000			S0692
8	60	10	1,000	TO-218	497-2620-5-ND	1.98	16.50	138.60	TIP145
	100	10	1,000	TO-218	497-2569-5-ND	1.91	15.95	133.98	TIP147
	100	15	20	TO-218	497-2608-5-ND	1.89	15.75	132.30	TIP2955
	140	10	20	TO-218	497-2603-5-ND	1.65	14.30	110.00	TIP34C
	100	25	15	TO-218	497-2604-5-ND	1.74	14.50	121.80	TIP36C
	100	25	25	TO-218	497-4634-5-ND	2.16	18.00	151.20	TIP36CN
14	30	3	100	SOT-89	497-4345-1-ND*	.60	4.80	36.00	STF817A
	30	3	100	SOT-89	497-4345-2-ND†	450.00/2,500			STF817A
15	100	5	1,000	DPAK	497-2471-1-ND*	.86	6.84	51.30	MJD127T4
	100	5	1,000	DPAK	497-2471-2-ND†	677.50/2,500			MJD127T4
	60	10	20	DPAK	497-3136-1-ND*	1.09	9.43	72.50	MJD2955T4
	60	10	20	DPAK	497-3136-2-ND†	965.00/2,500			MJD2955T4
	100	3	10	DPAK	497-2491-1-ND*	.77	6.12	45.90	MJD32CT4
	100	3	10	DPAK	497-2491-2-ND†	605.00/2,500			MJD32CT4
	300	0.5	30	DPAK	497-3137-1-ND*	.94	8.13	62.50	MJD350T4
	300	0.5	30	DPAK	497-3137-2-ND†	832.50/2,500			MJD350T4
16	35	3	100	SOT-223	497-4365-1-ND*	.72	5.76	43.20	STN749
	35	3	100	SOT-223	497-4365-2-ND†	248.00/1,000			STN749
	60	3	100	SOT-223	497-4366-1-ND*	.58	4.45	32.04	STN790A
	60	3	100	SOT-223	497-4366-2-ND†	160.00/1,000			STN790A
17	100	5	1,000	TO-220FP	497-3271-5-ND	1.24	10.73	82.50	TIP127FP
NPN/PNP									
18	60	3	30	8-SOIC	497-4518-1-ND*	1.09	9.43	72.50	STS01DTP06T4
	60	3	30	8-SOIC	497-4518-2-ND†	965.00/2,500			STS01DTP06T4

◊ Bulk * Cut Tape † Tape and Reel § Tape and Box

FAIRCHILD SEMICONDUCTOR®

Transistors

TO-92

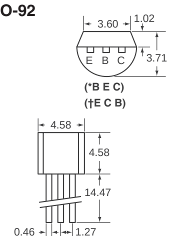

Cut Tape and Tape Reel lead spacing is 2.54mm

TO-3P

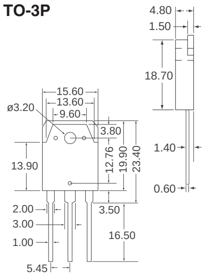

TO-220

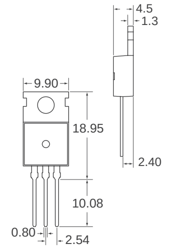

SOT-23

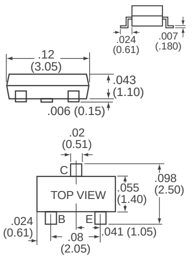

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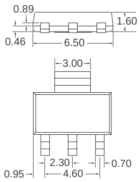

SuperSOT™ 3

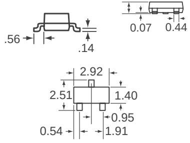

16-SOIC

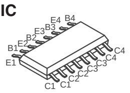

DO-35

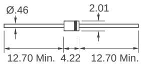

Description	Min. HFE	Pkg.	Digi-Key Part No.	Pricing 1	25	100
NPN Transistors						
GP Ampl SW, 30V, 500MA	100	TO-92	2N3704-ND†	.30	5.58	16.12
SSGP, 40V, 200mA	100	TO-92	2N3904FS-ND	.16	2.97	8.58
GP Ampl, 40V, 200mA	100	TO-92	2N3904D26ZCT-ND §	.19	3.60	10.40
SS GP Ampl, 30V, 200mA	50	TO-92	2N4123-ND	.19	3.60	10.40
SSGP, 25V, 200mA	60	TO-92	2N4124BU-ND	.18	3.47	10.01
SS GP Ampl, 40V, 600mA	40	TO-92	2N4400-ND	.20	3.83	11.05
SSGP, 40V, 600mA	80	TO-92	2N4401-ND	.20	3.83	11.05
GP Ampl, 40V, 600mA	80	TO-92	2N4401D26ZCT-ND §	.16	2.97	8.58
GP Ampl, 40V, 600mA	80	TO-92	2N4401D75ZCT-ND §	.16	2.97	8.58
LLGP, 80V, 200mA	60	TO-92	2N4410-ND	.28	5.31	14.72
LL LN Ampl, 30V, 100mA	300	TO-92	2N5088BU-ND	.18	3.47	10.01
LL LN Ampl, 25V, 100mA	400	TO-92	2N5089BU-ND	.18	3.47	10.01
LLGP, 50V, 100mA	250	TO-92	2N5210-ND	.19	3.60	10.40
SS GP Ampl, 140V, 600mA	60	TO-92	2N5550BU-ND	.19	3.51	10.14
Saturated SW, 15V, 200mA	40	TO-92	2N5769-ND	.23	4.25	12.29
RF Ampl, 15V, 50mA	20	TO-92	2N5770-ND	.31	5.76	15.96
Saturated SW, 15V, 300mA	30	TO-92	2N5772-ND	.30	5.58	16.12
SS GP Ampl, 100V, 200mA	80	TO-92	2N5830-ND	.28	5.31	14.72
LL Ampl, 60V, 100mA	150	TO-92	2N5961-ND	.26	4.79	13.85
Darlington, 100V, 1.5A	1,000	TO-92	2N7052-ND	.35	6.80	19.14
GP Ampl, 45V, 1.5A	250	SOT-23	BC81740MTFCT-ND §	.37	6.96	19.29
GP Ampl, 65V, 100mA	200	SOT-23	BC846BCT-ND §	.25	4.69	13.00
GP Ampl, 60V, 1.5A	25	SOT-223	BCP55FSCT-ND §	.45	9.14	25.06
GP Ampl, 40V, 1.0A	35	SOT-23	MMBT2222AFSCT-ND §	.19	3.51	10.14
GP Ampl, 40V, 200mA	100	SOT-23	MMBT3904FSCT-ND §	.19	3.51	10.14
GP Ampl, 40V, 600mA	80	SOT-23	MMBT4401FSCT-ND §	.19	3.51	10.14
GP Ampl, 30V, 100mA	300	SOT-23	MMBT5088CT-ND §	.19	3.51	10.14
RF, 12V, 50mA	25	SOT-23	MMBT5179CT-ND §	.26	4.86	14.04
Darlington, 40V, 1.2A	10,000	SOT-23	MMBT6427FSCT-ND §	.24	4.59	13.26
GP Ampl, 50V, 0.5A	250	SOT-23	MMBT6428CT-ND §	.19	3.51	10.14
GP Ampl, 80V, 500mA	100	SOT-23	MMBTA06FSCT-ND §	.25	4.73	13.10
High V Amp, 300V, 500mA	40	SOT-23	MMBTA42FSCT-ND §	.29	5.40	15.60
RF, 25V, 50mA	60	SOT-23	MMBTH10FSCT-ND §	.26	4.86	14.04
SS GP Ampl, 25V, 2mA	150	TO-92	MPS2924-ND	.41	8.27	22.68
SS GP Ampl, 25V, 200mA	250	TO-92	MPS6515-ND	.23	4.32	12.48
SS GP Ampl, 80V, 500mA	100	TO-92	MPSA06-ND	.28	5.25	14.56
GP Ampl, 80V, 500mA	100	TO-92	MPSA06_D26ZTR-ND		123.20/2,000	
Darlington, 20V, 1200mA	20K	TO-92	MPSA12-ND	.29	5.40	15.60
Darlington, 30V, 1200mA	10K	TO-92	MPSA13-ND	.26	4.82	13.36
Darlington, 30V, 1200mA	20K	TO-92	MPSA14-ND	.29	5.40	15.60
GP Ampl, 45V, 100mA	500	TO-92	MPSA18-ND	.27	5.10	14.14
Medium Power, 300V, 500mA	40	TO-92	MPSA42FS-ND	.36	6.66	18.46
SS Ampl, 300V, 500mA	40	TO-92	MPSA42_D26ZTR-ND		156.20/2,000	
Medium Power, 200V, 200mA	40	TO-92	MPSA43-ND	.31	5.89	16.33
RF Ampl, 25V, 50mA	60	TO-92	MPSH10FS-ND*	.39	7.31	20.28
GP Ampl, 45V, 500mA	100	TO-92	PN100RMCT-ND	.30	5.58	16.12
SSGP, 30V, 500mA, 1A	100	TO-92	PN2222BU-ND	.20	3.74	10.79
SSGP, 40V, 500mA, 1A	35	TO-92	PN2222AFS-ND	.20	3.74	10.79
GP Ampl, 40V, 1.0A	35	TO-92	PN2222AD26ZCT-ND §	.20	3.83	11.05
Saturated SW, 15V, 10mA	20	TO-92	PN2369-ND	.27	5.04	14.56
Saturated, 15V, 100mA	40	TO-92	PN2369A-ND	.27	5.04	14.56
LL Ampl, 60V, 100mA	250	TO-92	PN2484-ND	.26	4.79	13.85
LLGP, 25V, 500mA	150	TO-92	PN3565-ND	.30	5.58	16.12
SSGP, 30V, 100mA	150	TO-92	PN3566-ND	.27	5.10	14.14
SSGP, 40V, 150mA	40	TO-92	PN3567-ND	.27	5.10	14.14
SSGP, 40V, 500mA	100	TO-92	PN3569-ND	.24	4.50	13.00
SSHS, 15V, 200mA	35	TO-92	PN4275-ND	.24	4.50	13.00
N-Channel Switch, 30V 50mA	60	TO-92	PN4392FS-ND	.37	7.01	19.45
SSGP Ampl, 25V, 100mA	50	TO-92	PN5135-ND	.32	6.25	17.60
GP Ampl, 40V, 1.0A	35	SOT-223	PZT2222ACT-ND §	.41	8.35	22.90
GP Ampl, 300V, 500mA	40	SOT-223	PZTA42CT-ND §	.48	9.61	26.35
Epitaxial, 100V, 1.0A	40	TO-220	TIP29CFS-ND	.54	10.17	30.51
Epitaxial, 100V, 3.0A	25	TO-220	TIP31CFS-ND	.60	11.34	34.02
Epitaxial, 100V, 3.0A	25	TO-220	TIP31CTU-ND	.60	11.34	34.02
Epitaxial, 100V, 6.0A	30	TO-220	TIP41CTU-ND	.60	11.25	33.75
Darlington, 100V, 8A	1,000	TO-220	TIP102TU-ND	.82	15.39	46.17
Darlington, 100V, 2A	1,000	TO-220	TIP112TU-ND	.60	11.16	33.48
Darlington, 100V, 5A	1,000	TO-220	TIP122FS-ND	.60	11.16	33.48
Darlington, 100V, 5A	1,000	TO-220	TIP122TU-ND	.60	11.16	33.48
Darlington, 100V, 10A	1,000	TO-3P	TIP142TU-ND	1.33	27.75	88.80
PNP Transistors						
SS GP Ampl, 40, 200mA	50	TO-92	2N3905-ND	.19	3.60	10.40
SSGP, 40V, 200mA	100	TO-92	2N3906FS-ND	.18	3.47	10.01
GP Ampl, 40V, 200mA	100	TO-92	2N3906D26ZCT-ND §	.17	3.24	9.36
SS GP Ampl, 25V, 200mA	25	TO-92	2N4125-ND	.19	3.60	10.40
SSGP, 25V, 200mA	60	TO-92	2N4126-ND	.19	3.60	10.40
SS GP Ampl, 40, 600mA	50	TO-92	2N4402-ND	.20	3.83	11.05
SSGP, 40V, 600mA	100	TO-92	2N4403-ND	.20	3.83	11.05
GP Ampl, 40V, 600mA	100	TO-92	2N4403D26ZCT-ND §	.16	2.97	8.58
LLGP, 50V, 100mA	250	TO-92	2N5087-ND	.19	3.60	10.40
SS GP Ampl, 120, 600mA	40	TO-92	2N5400-ND	.25	4.73	13.65
SS GP Ampl, 150, 600mA	60	TO-92	2N5401-ND	.17	3.24	9.36
HS SW, 15V, 200mA	50	TO-92	2N5771-ND	1.42	28.49	85.47
GP Ampl, 30V,1.0A	70	Super-SOT-3	FMMT549FSCT-ND §	.38	7.20	19.97
Darlington, 30V, 1.2A	10,000	SOT-23	MMBTA64FSCT-ND §	.26	4.86	14.04
GP Ampl, 60V, 800mA	100	SOT-23	MMBT2907AFSCT-ND §	.20	3.78	10.92
GP Ampl, 50V, 100mA	250	SOT-23	MMBT5087CT-ND §	.22	4.05	11.70
GP Ampl, 40V, 600mA	100	SOT-23	MMBT4403FSCT-ND §	.20	3.78	10.92
GP Ampl, 40V, 200mA	100	SOT-23	MMBT3906FSCT-ND §	.19	3.51	10.14
GP Ampl, 25V, 200mA	120	SOT-23	MMBT4126FSCT-ND §	.19	3.51	10.14
GP Ampl, 80V, 500mA	100	SOT-23	MMBTA56FSCT-ND §	.26	4.86	14.04
High V Amp, 300V, 500mA	40	SOT-23	MMBTA92FSCT-ND §	.29	5.40	15.60
RF, 20V, 50mA	60	SOT-23	MMBTH81CT-ND §	.23	4.32	12.48
GP Ampl, 60V, 500mA	100	TO-92	MPSA05-ND	.28	5.25	14.56
High Current Dr, 80V, 500mA	100	TO-92	MPSA56-ND	.28	5.31	14.72
Darlington, 30V, 1.2A	5,000	TO-92	MPSA63-ND	.30	5.53	15.34
High V Amp, 300V, 500mA	40	TO-92	MPSA92-ND	.30	5.61	15.55
Medium Power, 200V, 500mA	40	TO-92	MPSA93FS-ND	.30	5.61	15.55
SS GP Ampl, 100V, 200mA	40	TO-92	MPSL51-ND	.25	4.69	13.00
SSGP, 40V, 500mA	75	TO-92	PN2907-ND	.17	3.24	9.36
SSGP, 60V, 800mA	100	TO-92	PN2907ABUFS-ND	.19	3.51	10.14
SS GP Ampl, 40V, 50mA	100	TO-92	PN3251-ND	.39	7.88	21.60
SSGP, 25V, 800mA	100	TO-92	PN3638A-ND	.26	4.93	14.24
Saturated SW, 12V, 200mA	30	TO-92	PN3640-ND	.56	10.46	31.37
SSGP, 40V, 200mA	150	TO-92	PN4122-ND	.25	4.61	13.33
LLLN, 60V, 500mA	100	TO-92	PN4249-ND	.27	5.14	14.25
LLLN, 40V, 500mA	250	TO-92	PN4250-ND	.27	5.10	14.14
LLLN, 60V, 500mA	250	TO-92	PN4250A-ND	.27	5.10	14.14
SSGP Ampl, 30V, 200mA	150	TO-92	PN4917-ND	.30	5.58	16.12
Saturated SW, 10V, 500mA	20	TO-92	PN5134-ND	.27	5.09	14.69
LL Ampl, 30V, 500mA	50	TO-92	PN5138-ND	.27	5.14	14.25
SS GP Ampl, 20V, 300mA	30	TO-92	PN5142-ND	.42	8.13	22.88
Epitaxial, -100V, -3A	25	TO-220	TIP32CFS-ND	.60	11.34	34.02
Epitaxial, -100V, -3A	25	TO-220	TIP32CTU-ND	.60	11.34	34.02
Darlington, -100V, -8A	1,000	TO-220	TIP107TU-ND	.86	16.20	48.60
Darlington, -100V, -5A	1,000	TO-220	TIP125TU-ND	.63	11.79	35.37
Darlington, -100V, -5A	1,000	TO-220	TIP127FS-ND	.63	11.79	35.37
Darlington, -100V, -5A	1,000	TO-220	TIP127TU-ND	.63	11.79	35.37
Darlington, -100V, -10A	1,000	TO-3P	TIP147TU-ND	1.31	27.38	87.60
N-Channel J-FET Transistors						
GP Amp	—	TO-92	2N5457FS-ND	.39	7.35	20.38
VHF Amp & Mixer	—	TO-92	MPF102-ND	.37	6.84	18.98
Transistor Arrays						
IC, Amp, Multichip, GP, NPN	—	16-SOIC	MMPQ2222ACT-ND	1.47	30.53	97.68
IC, Amp, Multichip, GP, NPN	—	16-SOIC	MMPQ2222ATR-ND		1587.30/2,500	
IC, Amp, Multichip, GP, PNP	—	16-SOIC	MMPQ2907ACT-ND	1.40	29.25	93.60
IC, Amp, Multichip, GP, PNP	—	16-SOIC	MMPQ2907ATR-ND		1521.00/2,500	

† * (See drawings above for pin layout).

§ For Tape and Reel part number, change the CT-ND to TR-ND. Please call Digi-Key® for Tape and Reel Pricing.

Zener Diodes

Zener Volt. V_R (V)	I_R (µA)	Pkg.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel Size	Pricing
5.6	5.0	DO-35	1N5232BFSCT-ND**	.14	1.08	7.80	5,000	24.00/M
5.1	1.0	DO-35	1N751ACT-ND**	.12	.92	6.63	5,000	18.00/M
20.0	0.05	SOT-23	BZX84C20FSCT-ND**	.20	1.51	10.92	3,000	39.48/M
5.1	2.0	SOT-23	BZX84C5V1FSCT-ND**	.18	1.35	9.75	3,000	35.25/M
12.0	1.0	SOT-23	MMBZ5242BFSCT-ND**	.23	1.73	12.48	3,000	45.12/M

** For Tape and Reel part number, change the CT-ND to TR-ND.

FAIRCHILD SEMICONDUCTOR®

Transistors and Diodes

Dim in mm

Fig. 1

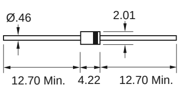

Fig. 2

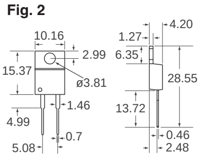

Fig. 3

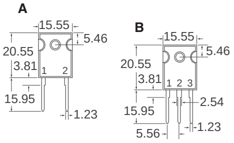

Fig. 4

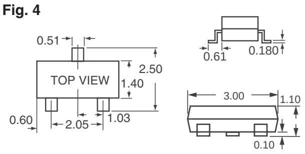

Fig. 5

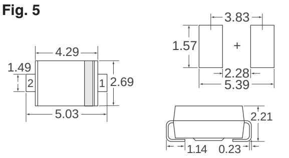

Fig. 6

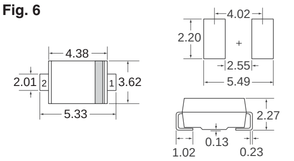

Fig. 7

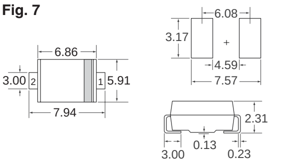

Fig. 8

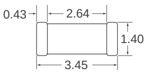

Fig. 9

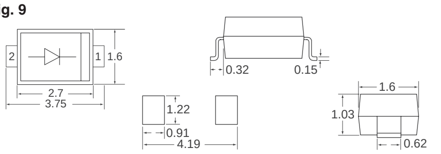

Fig.	Maximum Reverse Voltage (V)	Maximum Average Rectified Current	Pkg.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel* Size	Pricing
1	100	200mA	DO-35	1N914BCT-ND	.09	.65	4.68	10,000	12.24/M
	100	200mA	DO-35	1N914CT-ND	.09	.65	4.68	10,000	12.24/M
	150	200mA	DO-35	1N3595CT-ND	.19	1.40	10.14	10,000	26.52/M
	100	200mA	DO-35	1N4448CT-ND	.06	.45	3.25	10,000	8.84/M
	50	200mA	DO-35	1N4454CT-ND	.06	.45	3.25	10,000	8.84/M
	100	200mA	DO-35	1N4148FS-ND‡	.07	.54	3.90	10,000	10.20/M
2	600	15A	TO-220AC	RURP1560-ND‡	1.58	12.67	95.04	—	—
	1,000	8A	TO-220AC	RURP8100-ND‡	1.20	9.96	79.68	—	—
	600	8A	TO-220AC	RURP860-ND‡	1.11	9.27	74.16	—	—
	600	30A	TO-220AC	RURP3060-ND‡	2.14	17.14	128.52	—	—
3A	200	30A	TO-247	RURG3020CC-ND‡	3.86	30.84	239.90	—	—
	600	30A	TO-247	RURG3060CC-ND‡	4.38	35.06	272.66	—	—
3B	600	30A	TO-247	RURG3060-ND‡	2.38	19.05	148.18	—	—
	600	50A	TO-247	RURG5060-ND‡	3.97	31.75	246.96	—	—
	1,000	80A	TO-247	RURG80100-ND‡	5.44	43.55	338.69	—	—
	600	80A	TO-247	RURG8060-ND‡	5.20	41.61	351.05	—	—
4	85	200mA	SOT-23	BAS16FSCT-ND	.17	1.30	9.36	3,000	33.84/M
	250	200mA	SOT-23	BAS21FSCT-ND	.19	1.40	10.14	3,000	36.66/M
	30	200mA	SOT-23	BAT54CFSCT-ND	.17	1.28	9.23	3,000	33.37/M
	30	200mA	SOT-23	BAT54FSCT-ND	.14	1.08	7.80	3,000	23.74/M
	30	200mA	SOT-23	BAT54SFSCT-ND	.17	1.28	9.23	3,000	33.37/M
	70	200mA	SOT-23	BAV70FSCT-ND	.21	1.57	11.31	3,000	40.89/M
	50	200mA	SOT-23	BAV74FSCT-ND	.22	1.62	11.70	3,000	42.30/M
	70	200mA	SOT-23	BAV99FSCT-ND	.21	1.60	11.57	3,000	41.83/M
	100	200mA	SOT-23	MMBD1203CT-ND	.22	1.62	11.70	3,000	42.30/M
	100	200mA	SOT-23	MMBD1204CT-ND	.22	1.62	11.70	3,000	42.30/M
	200	200mA	SOT-23	MMBD1503ACT-ND	.26	1.94	14.04	3,000	50.76/M
	100	200mA	SOT-23	MMBD4148CCCT-ND	.20	1.51	10.92	3,000	35.25/M
	100	200mA	SOT-23	MMBD4148FSCT-ND	.17	1.30	9.36	3,000	33.84/M
	100	200mA	SOT-23	MMBD7000FSCT-ND	.22	1.62	11.70	3,000	42.30/M
	100	200mA	SOT-23	MMBD914FSCT-ND	.17	1.30	9.36	3,000	33.84/M
5	200	1.0A	DO-214AC	ES1DFSCT-ND	.39	3.08	21.65	7,500	83.64/M
6	200	2.0A	DO-214AA	ES2DFSCT-ND	.46	3.72	25.49	3,000	120.36/M
7	200	3.0A	DO-214AB	ES3DFSCT-ND	.56	4.51	33.84	3,000	152.28/M
8	100	200mA	LL-34	FDLL4148CT-ND	.10	.76	5.46	2,500	19.74/M
9	20	500mA	SOD-123	MBR0520LCT-ND	.30	2.25	15.60	3,000	52.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ‡ Bulk

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DIODES INCORPORATED

Transistors

Dim in mm

SOT-323

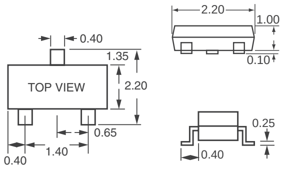

SOT-23

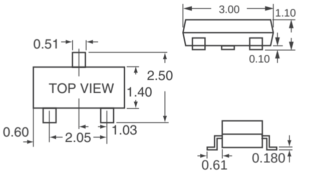

SOT-523

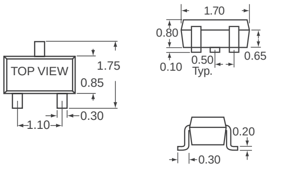

SC-59

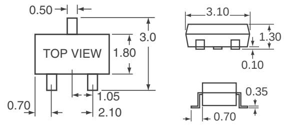

SOT-26

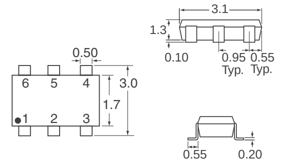

SOT-363

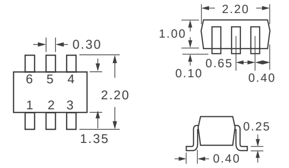

SOT-563

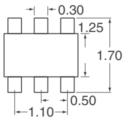

Fig. 1

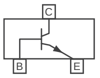

Fig. 2

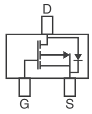

Fig. 3

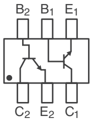

Fig. 4

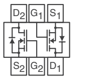

Fig. 5

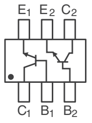

Fig. 6

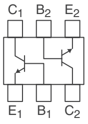

Fig. 7

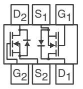

Fig. 8

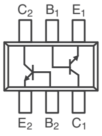

Fig. 9

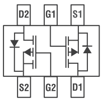

Fig. 10

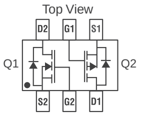

Fig. 11

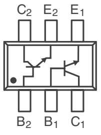

Fig. 12

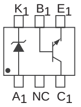

Fig. 13

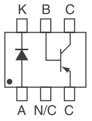

Fig. 14

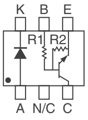

Fig. 15

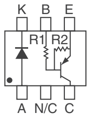

Fig.	V_{CEO} (V)	I_C (mA)	Min. HFE	Digi-Key Part No.	Cut Tape Pricing 10	100	Tape & Reel* Size	Pricing
				NPN SOT-323				
1	40	600	35	MMST2222A-FDICT-ND◊	3.25	23.40	3,000	111.00/M
	40	200	30	MMST3904DICT-ND	3.25	23.40	—	—
	40	200	30	MMST3904-FDICT-ND◊	3.25	23.40	3,000	111.00/M
	40	600	20	MMST4401DICT-ND	3.25	23.40	3,000	111.00/M
	40	600	20	MMST4401-FDICT-ND◊	3.25	23.40	3,000	111.00/M
	25	200	60	MMST4124DICT-ND	3.25	23.40	—	—
	25	200	60	MMST4124-FDICT-ND◊	3.25	23.40	3,000	111.00/M
	160	200	30	MMST5551DICT-ND	3.25	23.40	3,000	111.00/M
	160	200	30	MMST5551-FDICT-ND◊	3.25	23.40	3,000	111.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

▲ Intrinsically Matched NPN Pair † Intrinsically Matched PNP Pair

(Continued)

Fig.	V_{CEO} (V)	I_C (mA)	Min. HFE	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel* Size	Tape & Reel* Pricing
1	40	500	14K	MMST6427-FDICT-ND◊	3.25	23.40	3,000	111.00/M
	60	500	100	MMSTA05DICT-ND	3.60	27.00	3,000	135.00/M
	60	500	100	MMSTA05-FDICT-ND◊	3.60	27.00	3,000	135.00/M
	80	500	100	MMSTA06DICT-ND	3.60	27.00	3,000	135.00/M
	80	500	100	MMSTA06-FDICT-ND◊	3.60	27.00	3,000	135.00/M
	30	300	10K	MMSTA13DICT-ND	3.60	27.00	3,000	135.00/M
	30	300	10K	MMSTA13-FDICT-ND◊	3.60	27.00	3,000	135.00/M
	30	300	20K	MMSTA14DICT-ND	3.60	27.00	3,000	135.00/M
	30	300	20K	MMSTA14-FDICT-ND◊	3.60	27.00	3,000	135.00/M
	300	200	25	MMSTA42DICT-ND	3.60	27.00	—	—
	300	200	25	MMSTA42-FDICT-ND◊	3.60	27.00	3,000	135.00/M
	45	500	60	BC817-16WDICT-ND◊	3.00	20.80	3,000	80.00/M
	45	500	100	BC817-25WDICT-ND◊	3.00	20.80	3,000	80.00/M
	45	500	170	BC817-40WDICT-ND◊	3.00	20.80	3,000	80.00/M
NPN SOT-23								
1	40	600	100	MMBT2222ADICT-ND	2.63	18.20	3,000	70.00/M
	40	600	100	MMBT2222A-FDICT-ND◊	2.63	18.20	3,000	70.00/M
	40	200	100	MMBT3904DICT-ND	2.25	15.60	3,000	60.00/M
	40	200	100	MMBT3904-FDICT-ND◊	2.25	15.60	3,000	60.00/M
	40	600	100	MMBT4401-FDICT-ND◊	2.63	18.20	3,000	70.00/M
	60	100	50	MMBTA05DICT-ND	3.63	25.52	3,000	104.00/M
	60	100	50	MMBTA05-FDICT-ND◊	3.63	25.52	3,000	104.00/M
	80	100	50	MMBTA06DICT-ND	3.63	25.52	3,000	104.00/M
	80	100	50	MMBTA06-FDICT-ND◊	3.63	25.52	3,000	104.00/M
	30	100	10K	MMBTA13DICT-ND	3.63	25.52	3,000	104.00/M
	30	100	10K	MMBTA13-FDICT-ND◊	3.63	25.52	3,000	104.00/M
	30	100	20K	MMBTA14DICT-ND	3.63	25.52	3,000	104.00/M
	30	100	20K	MMBTA14-FDICT-ND◊	3.63	25.52	3,000	104.00/M
	18	1000	150	MMBT123SDICT-ND	3.00	21.60	3,000	102.00/M
	18	1000	150	MMBT123S-FDICT-ND◊	3.00	21.60	3,000	102.00/M
	25	200	60	MMBT4124DICT-ND	2.63	18.20	3,000	70.00/M
	25	200	60	MMBT4124-FDICT-ND◊	2.63	18.20	3,000	70.00/M
	40	500	10K	MMBT6427DICT-ND	3.63	25.52	3,000	104.00/M
	40	500	10K	MMBT6427-FDICT-ND◊	3.63	25.52	3,000	104.00/M
	300	200	25	MMBTA42-FDICT-ND◊	3.63	25.52	3,000	104.00/M
	25	50	30	MMBTH10DICT-ND	4.00	28.80	3,000	136.00/M
	25	50	30	MMBTH10-FDICT-ND◊	4.00	28.80	3,000	136.00/M
	40	50	60	MMBTH24DICT-ND	4.00	28.80	—	—
	40	50	60	MMBTH24-FDICT-ND◊	4.00	28.80	3,000	136.00/M
	80	500	80	MMBTA28DICT-ND	3.63	25.52	3,000	104.00/M
	80	500	80	MMBTA28-FDICT-ND◊	3.63	25.52	3,000	104.00/M
	45	800	100	BC817-16DICT-ND	3.00	20.80	—	—
	45	800	100	BC817-16-FDICT-ND◊	3.00	20.80	3,000	80.00/M
	45	800	100	BC817-25-FDICT-ND◊	3.00	20.80	3,000	80.00/M
	45	800	170	BC817-40-FDICT-ND◊	3.00	20.80	3,000	80.00/M
NPN SOT-523								
1	40	600	35	MMBT2222ATDICT-ND	2.63	18.20	3,000	70.00/M
	40	600	35	MMBT2222AT-FDICT-ND◊	2.63	18.20	3,000	70.00/M
	40	200	30	MMBT3904T-FDICT-ND◊	2.25	15.60	3,000	60.00/M
	40	600	20	MMBT4401TDICT-ND	2.63	18.20	—	—
	40	600	20	MMBT4401T-FDICT-ND◊	2.63	18.20	3,000	70.00/M
	50	100	110	BC847ATDICT-ND	2.25	15.60	3,000	60.00/M
	50	100	110	BC847AT-FDICT-ND◊	2.25	15.60	3,000	60.00/M
	50	100	200	BC847BT-FDICT-ND◊	2.25	15.60	3,000	60.00/M
	50	150	120	2DC4617QDICT-ND	2.81	19.80	3,000	81.00/M
	50	150	120	2DC4617Q-FDICT-ND◊	2.81	19.80	3,000	81.00/M
	50	150	180	2DC4617RDICT-ND	2.81	19.80	3,000	81.00/M
	50	150	180	2DC4617R-FDICT-ND◊	2.81	19.80	3,000	81.00/M
	50	150	270	2DC4617SDICT-ND	2.81	19.80	3,000	81.00/M
	50	150	270	2DC4617S-FDICT-ND◊	2.81	19.80	3,000	81.00/M
PNP SOT-323								
1	60	600	50	MMST2907ADICT-ND	3.25	23.40	—	—
	60	600	50	MMST2907A-FDICT-ND◊	3.25	23.40	3,000	111.00/M
	40	200	30	MMST3906DICT-ND	3.25	23.40	3,000	111.00/M
	40	200	30	MMST3906-FDICT-ND◊	3.25	23.40	3,000	111.00/M
	40	600	30	MMST4403DICT-ND	3.25	23.40	3,000	111.00/M
	40	600	30	MMST4403-FDICT-ND◊	3.25	23.40	3,000	111.00/M
	25	200	60	MMST4126DICT-ND	3.25	23.40	—	—
	25	200	60	MMST4126-FDICT-ND◊	3.25	23.40	3,000	111.00/M
	150	200	50	MMST5401-FDICT-ND◊	3.25	23.40	3,000	111.00/M
	60	500	100	MMSTA55DICT-ND	3.60	27.00	3,000	135.00/M
	60	500	100	MMSTA55-FDICT-ND◊	3.60	27.00	3,000	135.00/M
	80	500	100	MMSTA56DICT-ND	3.60	27.00	3,000	135.00/M
	80	500	100	MMSTA56-FDICT-ND◊	3.60	27.00	3,000	135.00/M
1	30	500	10K	MMSTA63DICT-ND	3.60	27.00	3,000	135.00/M
	30	500	10K	MMSTA63-FDICT-ND◊	3.60	27.00	3,000	135.00/M
	30	500	20K	MMSTA64DICT-ND	3.60	27.00	3,000	135.00/M
	30	500	20K	MMSTA64-FDICT-ND◊	3.60	27.00	3,000	135.00/M
	300	100	25	MMSTA92DICT-ND	3.60	27.00	3,000	135.00/M
	300	100	25	MMSTA92-FDICT-ND◊	3.60	27.00	3,000	135.00/M
	45	500	60	BC807-16WDICT-ND◊	3.00	20.80	3,000	80.00/M
	45	500	100	BC807-25WDICT-ND◊	3.00	20.80	3,000	80.00/M
	45	500	170	BC807-40WDICT-ND◊	3.00	20.80	3,000	80.00/M
PNP SOT-23								
1	40	600	100	MMBT4403-FDICT-ND◊	2.63	18.20	3,000	70.00/M
	60	100	50	MMBTA55DICT-ND	3.63	25.52	3,000	104.00/M
	60	100	50	MMBTA55-FDICT-ND◊	3.63	25.52	3,000	104.00/M
	80	100	50	MMBTA56DICT-ND	3.63	25.52	3,000	104.00/M
	80	100	50	MMBTA56-FDICT-ND◊	3.63	25.52	3,000	104.00/M
	60	150	300	MMBT2907ADICT-ND	2.63	18.20	3,000	70.00/M
	60	150	300	MMBT2907A-FDICT-ND◊	2.63	18.20	3,000	70.00/M
	45	500	60	BC807-16-FDICT-ND◊	3.00	20.80	3,000	80.00/M
	45	500	100	BC807-25-FDICT-ND◊	3.00	20.80	3,000	80.00/M
	45	500	170	BC807-40-FCT-ND◊	3.00	20.80	3,000	80.00/M
	25	200	60	MMBT4126DICT-ND	2.63	18.20	3,000	70.00/M
	25	200	60	MMBT4126-FDICT-ND◊	2.63	18.20	3,000	70.00/M
	40	200	30	MMBT3906DICT-ND	2.25	15.60	3,000	60.00/M
	40	200	30	MMBT3906-FDICT-ND◊	2.63	18.20	3,000	70.00/M
	30	500	10K	MMBTA63DICT-ND	3.63	25.52	3,000	104.00/M
	30	500	10K	MMBTA63-FDICT-ND◊	3.63	25.52	3,000	104.00/M
	30	500	20K	MMBTA64DICT-ND	3.63	25.52	3,000	104.00/M
	30	500	20K	MMBTA64-FDICT-ND◊	3.63	25.52	3,000	104.00/M
	150	200	50	MMBT5401-FDICT-ND◊	3.00	20.80	3,000	80.00/M
	300	500	25	MMBTA92DICT-ND	3.63	25.52	—	—
	300	500	25	MMBTA92-FDICT-ND◊	3.63	25.52	—	—
PNP SOT-523								
1	60	600	50	MMBT2907ATDICT-ND	2.63	18.20	3,000	70.00/M
	60	600	50	MMBT2907AT-FDICT-ND◊	2.63	18.20	3,000	70.00/M
	50	150	120	2DA1774QDICT-ND	2.81	19.80	3,000	81.00/M
	50	150	180	2DA1774RDICT-ND	2.81	19.80	3,000	81.00/M
	50	150	180	2DA1774R-FDICT-ND◊	2.81	19.80	3,000	81.00/M
	50	150	270	2DA1774SDICT-ND	2.81	19.80	3,000	81.00/M
	50	150	270	2DA1774S-FDICT-ND◊	2.81	19.80	3,000	81.00/M
	40	200	30	MMBT3906TDICT-ND	2.25	15.60	3,000	60.00/M
	40	200	30	MMBT3906T-FDICT-ND◊	2.25	15.60	3,000	60.00/M
	40	600	20	MMBT4403TDICT-ND	2.63	18.20	—	—
	40	600	20	MMBT4403T-FDICT-ND◊	2.63	18.20	3,000	70.00/M
	50	100	125	BC857AT-FDICT-ND◊	2.25	15.60	3,000	60.00/M
	50	100	220	BC857BT-FDICT-ND◊	2.25	15.60	3,000	60.00/M
Dual NPN SOT-26								
3	120	50	180	IMX8DICT-ND	3.50	25.20	3,000	119.00/M
	120	50	180	IMX8-FDICT-ND◊	3.50	25.20	3,000	119.00/M
5	160	200	30	DMMT5551-FDICT-ND▲◊	4.00	30.00	3,000	150.00/M
Dual NPN SOT-363								
8	40	600	100	MMDT4401DICT-ND	4.00	30.00	3,000	150.00/M
	40	600	100	MMDT4401-FDICT-ND◊	4.00	30.00	3,000	150.00/M
11	40	600	35	MMDT2222A-FDICT-ND◊	4.00	28.80	3,000	136.00/M
	40	200	30	MMDT3904-FDICT-ND◊	4.00	28.80	3,000	136.00/M
	25	200	60	MMDT4124-FDICT-ND◊	4.00	30.00	3,000	150.00/M
	160	200	30	MMDT5551DICT-ND	4.00	30.00	—	—
	160	200	30	MMDT5551-FDICT-ND◊	4.00	30.00	3,000	150.00/M
	40	200	100	DMMT3904W-FDICT-ND▲◊	4.00	30.00	3,000	150.00/M
Dual NPN SOT-563								
6	40	200	100	MMDT3904VDICT-ND	4.00	28.80	3,000	136.00/M
	45	100	200	BC847BVDICT-ND	4.00	28.80	3,000	136.00/M
Dual PNP SOT-363								
8	60	600	75	MMDT2907A-FDICT-ND◊	4.00	28.80	3,000	136.00/M
	40	200	60	MMDT3906DICT-ND	4.00	28.80	3,000	136.00/M
	40	200	60	MMDT3906-FDICT-ND◊	4.00	28.80	3,000	136.00/M
	40	600	100	MMDT4403DICT-ND	4.00	30.00	3,000	150.00/M
	40	600	100	MMDT4403-FDICT-ND◊	4.00	30.00	3,000	150.00/M
	25	200	60	MMDT4126DICT-ND	4.00	30.00	3,000	150.00/M
	25	200	60	MMDT4126-FDICT-ND◊	4.00	30.00	3,000	150.00/M
	150	200	50	MMDT5401-FDICT-ND◊	4.00	30.00	3,000	150.00/M
11	40	200	30	DMMT3906W-FDICT-ND†◊	4.00	30.00	3,000	150.00/M
Dual PNP SOT-26								
5	150	200	50	DMMT5401-FDICT-ND†◊	4.00	30.00	3,000	150.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

▲ Intrinsically Matched NPN Pair † Intrinsically Matched PNP Pair *(Continued)*

Fig.	V_{CEO} (V)	I_C (mA)	Min. HFE	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel* Size	Tape & Reel* Pricing
Complementary NPN/PNP SOT-363								
8	40/60	600/600	35/50	MMDT2227DICT-ND	4.00	28.80	3,000	136.00/M
	40/60	600/600	35/50	MMDT2227-FDICT-ND◊	4.00	28.80	3,000	136.00/M
	40/40	600/600	20/30	MMDT4413DICT-ND	4.00	30.00	3,000	150.00/M
	40/40	600/600	20/30	MMDT4413-FDIC T-ND◊	4.00	30.00	3,000	150.00/M
	40/40	200/200	60/60	MMDT4146DICT-ND	4.00	30.00	3,000	150.00/M
	40/40	200/200	60/60	MMDT4146-FDICT-ND◊	4.00	30.00	3,000	150.00/M
	160/160	200/200	30/50	MMDT5451-FDICT-ND◊	4.00	30.00	3,000	150.00/M
11	40/40	200/200	40/60	MMDT3946-FDICT-ND◊	4.00	28.80	3,000	136.00/M
NPN/P-Channel Complex Array SOT-363								
8	60	600	100	CTA2N1PDICT-ND	4.80	36.00	3,000	200.00/M
	60	600	100	CTA2N1P-FDICT-ND◊	5.40	40.50	3,000	214.00/M
PNP/N-Channel Complex Array SOT-363								
8	40	600	100	CTA2P1NDICT-ND	5.40	40.50	3,000	214.00/M
	40	600	100	CTA2P1N-FDICT-ND◊	5.40	40.50	3,000	214.00/M
Complex Transistor/Diode Array SOT-363								
12	Array for Relay Driver		150	DRDN010WDICT-ND◊	4.00	30.00	3,000	150.00/M
	Array for Relay Driver		100	DRDN005WDICT-ND◊	4.00	30.00	3,000	150.00/M
	Array for Volt. Reg.		150	DVR1V8WDICT-ND◊	4.00	30.00	3,000	150.00/M
	Array for Volt. Reg.		150	DVR2V5WDICT-ND◊	4.00	30.00	3,000	150.00/M
	Array for Volt. Reg.		150	DVR3V3WDICT-ND◊	4.00	30.00	3,000	150.00/M
	Array for Volt. Reg.		150	DVR5V0WDICT-ND◊	4.00	30.00	3,000	150.00/M
13	Array for Relay Driver		100	DRDP006WDICT-ND◊	4.00	30.00	3,000	150.00/M
14	Array for Relay Driver		56	DRDNB16WDICT-ND◊	4.00	30.00	3,000	150.00/M
	Array for Relay Driver		47	DRDNB26WDICT-ND◊	4.00	30.00	3,000	150.00/M
15	Array for Relay Driver		56	DRDPB16WDICT-ND◊	4.00	30.00	3,000	150.00/M
	Array for Relay Driver		47	DRDPB26WDICT-ND◊	4.00	30.00	3,000	150.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

▲ Intrinsically Matched NPN Pair † Intrinsically Matched PNP Pair

MOSFETs

Fig.	V_{DS} (V)	I_D (A)	RDS (on) (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel* Size	Tape & Reel* Pricing
N-Channel SOT-23								
1	60	0.115	3.2	2N7002-FDICT-ND◊	4.00	30.00	3,000	150.00/M
	60	0.250	3.5	BS870DICT-ND	4.00	30.00	—	—
	60	0.250	3.5	BS870-FDICT-ND◊	4.00	30.00	3,000	150.00/M
	50	0.200	1.4	BSS138-FDICT-ND◊	4.00	30.00	3,000	150.00/M
	60	0.500	5.0	MMBF170DICT-ND	3.00	21.60	3,000	102.00/M
	60	0.500	5.0	MMBF170-FDICT-ND◊	3.00	21.60	3,000	102.00/M
	60	0.300	2.0	DMN601KDICT-ND◊	4.00	28.80	3,000	136.00/M
	100	0.170	6.0	BSS123DICT-ND	4.20	31.50	3,000	158.00/M
	100	0.170	6.0	BSS123-FDICT-ND◊	4.20	31.50	3,000	158.00/M
N-Channel SC-59								
2	30	1.1	0.17	DMN100DICT-ND	7.04	52.80	3,000	293.00/M
	30	1.1	0.17	DMN100-FDICT-ND◊	7.92	59.40	3,000	314.00/M
N-Channel SOT-323								
1	60	0.115	3.2	2N7002WDICT-ND	4.80	36.00	3,000	180.00/M
	60	0.115	3.2	2N7002W-FDICT-ND◊	4.80	36.00	3,000	180.00/M
	50	0.200	3.5	BSS138WDICT-ND	4.40	33.00	3,000	165.00/M
	50	0.200	3.5	BSS138W-FDICT-ND◊	4.40	33.00	3,000	165.00/M
	100	0.170	6.0	BSS123WDICT-ND	4.20	31.50	3,000	158.00/M
	100	0.170	6.0	BSS123W-FDICT-ND◊	4.20	31.50	3,000	158.00/M
	60	0.300	2.0	DMN601WK-FDICT-ND◊	4.00	30.00	3,000	150.00/M
N-Channel SOT-523								
1	60	0.115	2.0	2N7002T-FDICT-ND◊	4.80	36.00	3,000	180.00/M
	60	0.300	2.0	DMN601TK-FDICT-ND◊	4.80	36.00	3,000	180.00/M
Dual N-Channel SOT-26								
4	60	0.305	2.4	DMN601DMK-FDICT-ND◊	5.60	42.00	3,000	210.00/M
Dual N-Channel SOT-363								
4	60	0.305	2.0	DMN601DWK-FDICT-ND◊	5.60	42.00	3,000	210.00/M
8	60	0.115	3.2	2N7002DW-FDICT-ND◊	5.40	40.50	3,000	214.00/M
	50	0.200	3.5	BSS138DWDICT-ND	5.28	39.60	3,000	219.00/M
	50	0.200	3.5	BSS138DW-FDICT-ND◊	5.94	44.55	3,000	235.00/M
Dual N-Channel SOT-563								
4	60	0.280	13.5	2N7002VDICT-ND	5.40	40.50	3,000	214.00/M
	60	0.305	2.0	DMN601VK-FDICT-ND◊	5.60	42.00	3,000	210.00/M
7	60	0.280	13.5	2N7002VADICT-ND	5.40	40.50	3,000	214.00/M
P-Channel SOT-23								
1	50	0.130	10	BSS84DICT-ND	4.00	30.00	—	—
	50	0.130	10	BSS84-FDICT-ND◊	4.00	30.00	3,000	150.00/M
P-Channel SOT-323								
1	50	0.130	10	BSS84WDICT-ND	4.40	33.00	—	—
	50	0.130	10	BSS84W-FDICT-ND◊	4.40	33.00	3,000	165.00/M
Dual P-Channel SOT-363								
9	50	0.130	6	BSS84DWDICT-ND	5.94	44.55	—	—
	50	0.130	6	BSS84DW-FDICT-ND◊	5.94	44.55	3,000	235.00/M
N-Channel/P-Channel Array SOT-363								
10	60 50	0.115 0.130	10	BSS8402DWDICT-ND	5.94	44.55	3,000	235.00/M
	60 50	0.115 0.130	10	BSS8402DW-FDICT-ND◊	5.94	44.55	3,000	235.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Pre-Biased Small Signal Transistors

SOT-363

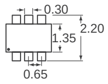

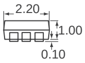

Fig. 1

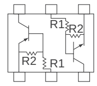

Fig. 2

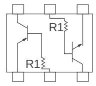

Fig. 3

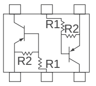

Fig. 4

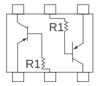

Fig. 5

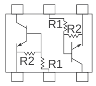

Fig. 6

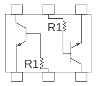

Fig.	Hfe Gain	Nominal R1 (Ω)	Nominal R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel Pricing* 3,000
Complimentary NPN/PNP SOT-363								
1	100	10K	10K	DCX114EUDICT-ND	.55	4.20	30.24	143.00/M
		10K	10K	DCX114EU-FDICT-ND◊	.55	4.20	30.24	143.00/M
		10K	47K	DCX114YUDICT-ND	.55	4.20	30.24	—
		10K	47K	DCX114YU-FDICT-ND◊	.55	4.20	30.24	143.00/M
		2.2K	47K	DCX123JUDICT-ND	.55	4.20	30.24	143.00/M
		2.2K	47K	DCX123JU-FDICT-ND◊	.55	4.20	30.24	143.00/M
		22K	22K	DCX124EUDICT-ND	.55	4.20	30.24	143.00/M
		22K	22K	DCX124EU-FDICT-ND◊	.55	4.20	30.24	143.00/M
		47K	47K	DCX144EUDICT-ND	.55	4.20	30.24	143.00/M
		47K	47K	DCX144EU-FDICT-ND◊	.55	4.20	30.24	143.00/M
2	100	4.7K	—	DCX143TUDICT-ND	.55	4.20	30.24	143.00/M
		4.7K	—	DCX143TU-FDICT-ND◊	.55	4.20	30.24	143.00/M
Dual PNP SOT-363								
3	100	10K	10K	DDA114EUDICT-ND	.47	3.60	25.92	122.00/M
		10K	10K	DDA114EU-FDICT-ND◊	.47	3.60	25.92	122.00/M
		10K	47K	DDA114YUDICT-ND	.47	3.60	25.92	—
		10K	47K	DDA114YU-FDICT-ND◊	.47	3.60	25.92	122.00/M
		2.2K	47K	DDA123JUDICT-ND	.47	3.60	25.92	122.00/M
		2.2K	47K	DDA123JU-FDICT-ND◊	.47	3.60	25.92	122.00/M
		22K	22K	DDA124EUDICT-ND	.47	3.60	25.92	122.00/M
		22K	22K	DDA124EU-FDICT-ND◊	.47	3.60	25.92	122.00/M
		47K	47K	DDA144EUDICT-ND	.47	3.60	25.92	122.00/M
		47K	47K	DDA144EU-FDICT-ND◊	.47	3.60	25.92	122.00/M
4	100	10K	—	DDA114TUDICT-ND	.47	3.60	25.92	—
		10K	—	DDA114TU-FDICT-ND◊	.47	3.60	25.92	122.00/M
		4.7K	—	DDA143TUDICT-ND	.47	3.60	25.92	122.00/M
		4.7K	—	DDA143TU-FDICT-ND◊	.47	3.60	25.92	122.00/M
Dual NPN SOT-363								
5	100	10K	10K	DDC114EUDICT-ND	.47	3.60	25.92	122.00/M
		10K	10K	DDC114EU-FDICT-ND◊	.47	3.60	25.92	122.00/M
		10K	47K	DDC114YUDICT-ND	.47	3.60	25.92	122.00/M
		10K	47K	DDC114YU-FDICT-ND◊	.47	3.60	25.92	122.00/M
		2.2K	47K	DDC123JUDICT-ND	.47	3.60	25.92	122.00/M
		2.2K	47K	DDC123JU-FDICT-ND◊	.47	3.60	25.92	122.00/M
		22K	22K	DDC124EUDICT-ND	.47	3.60	25.92	122.00/M
		22K	22K	DDC124EU-FDICT-ND◊	.47	3.60	25.92	122.00/M
		47K	47K	DDC144EUDICT-ND	.47	3.60	25.92	122.00/M
		47K	47K	DDC144EU-FDICT-ND◊	.47	3.60	25.92	122.00/M
6	100	10K	—	DDC114TUDICT-ND	.47	3.60	25.92	122.00/M
		10K	—	DDC114TU-FDICT-ND◊	.47	3.60	25.92	122.00/M
		4.7K	—	DDC143TUDICT-ND	.47	3.60	25.92	122.00/M
		4.7K	—	DDC143TU-FDICT-ND◊	.47	3.60	25.92	122.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Pre-Biased Transistors

Features: • Epitaxial Planar Die Construction **Mechanical Data:** • **Case Material:** UL Flammability Rating 94V-0 • **Terminals:** Solderable per MIL-STD-202, Method 208

SOT-23

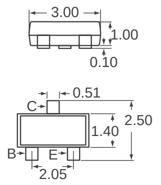

SOT-323

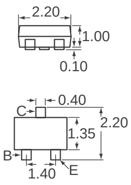

SOT-523

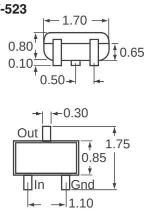

Fig. 1

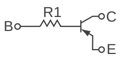

Fig. 2

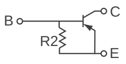

Fig. 3

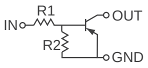

Fig. 4

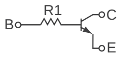

Fig. 5

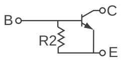

Fig. 6

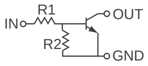

Fig.	Power Dissi-pation (mW)	I_C Max. (mA)	Min. Hfe Gain	Nominal R1 (Ω)	Nominal R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel Pricing* 3,000
						PNP SOT-23				
1	200	100	100	1K	—	DDTA113TCADICT-ND	.41	3.00	21.12	86.00/M
				1K	—	DDTA113TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				2.2K	—	DDTA123TCADICT-ND	.41	3.00	21.12	86.00/M
				2.2K	—	DDTA123TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				4.7K	—	DDTA143TCADICT-ND	.41	3.00	21.12	86.00/M
				4.7K	—	DDTA143TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				10K	—	DDTA114TCADICT-ND	.41	3.00	21.12	86.00/M
				10K	—	DDTA114TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				22K	—	DDTA124TCADICT-ND	.41	3.00	21.12	86.00/M
				22K	—	DDTA124TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				47K	—	DDTA144TCADICT-ND	.41	3.00	21.12	86.00/M
				47K	—	DDTA144TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				100K	—	DDTA115TCADICT-ND	.41	3.00	21.12	86.00/M
				100K	—	DDTA115TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				200K	—	DDTA125TCADICT-ND	.41	3.00	21.12	86.00/M
				200K	—	DDTA125TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
2	200	100	30	—	10K	DDTA114GCADICT-ND	.41	3.00	21.12	86.00/M
			30	—	10K	DDTA114GCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	—	22K	DDTA124GCADICT-ND	.41	3.00	21.12	86.00/M
			56	—	22K	DDTA124GCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	—	47K	DDTA144GCADICT-ND	.41	3.00	21.12	86.00/M
			68	—	47K	DDTA144GCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			82	—	100K	DDTA115GCADICT-ND	.41	3.00	21.12	86.00/M
			82	—	100K	DDTA115GCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
3	200	100	20	2.2K	2.2K	DDTA123ECADICT-ND	.41	3.00	21.12	86.00/M
			20	2.2K	2.2K	DDTA123ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTA143ECADICT-ND	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTA143ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			24	10K	4.7K	DDTA114WCADICT-ND	.41	3.00	21.12	86.00/M
			24	10K	4.7K	DDTA114WCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTA143XCADICT-ND	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTA143XCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTA114ECADICT-ND	.41	3.00	21.12	—
			30	10K	10K	DDTA114ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			33	1K	10K	DDTA113ZCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTA123YCADICT-ND	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTA123YCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTA144VCADICT-ND	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTA144VCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	22K	22K	DDTA124ECADICT-ND	.41	3.00	21.12	86.00/M
			56	22K	22K	DDTA124ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTA144WCADICT-ND	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTA144WCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	10K	47K	DDTA114YCADICT-ND	.41	3.00	21.12	86.00/M
			68	10K	47K	DDTA114YCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTA124XCADICT-ND	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTA124XCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTA144ECADICT-ND	.41	3.00	21.12	—
			68	47K	47K	DDTA144ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTA123JCADICT-ND	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTA123JCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTA143ZCADICT-ND	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTA143ZCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTA115ECADICT-ND	.41	3.00	21.12	—
			82	100K	100K	DDTA115ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
		500	56	0.22K	10K	DDTB122LCDICT-ND	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTB122LC-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTB142JCDICT-ND	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTB142JC-FDICT-ND◊	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTB122TCDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTB122TC-FDICT-ND◊	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTB142TCDICT-ND	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTB142TC-FDICT-ND◊	.41	3.00	21.12	86.00/M

Fig.	Power Dissi-pation (mW)	I_C Max. (mA)	Min. Hfe Gain	Nominal R1 (Ω)	Nominal R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel Pricing* 3,000
						PNP SOT-323				
1	200	100	100	1K	—	DDTA113TUADICT-ND	.41	3.00	21.12	86.00/M
				1K	—	DDTA113TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				2.2K	—	DDTA123TUADICT-ND	.41	3.00	21.12	86.00/M
				2.2K	—	DDTA123TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				4.7K	—	DDTA143TUADICT-ND	.41	3.00	21.12	86.00/M
				4.7K	—	DDTA143TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				10K	—	DDTA114TUADICT-ND	.41	3.00	21.12	86.00/M
				10K	—	DDTA114TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				22K	—	DDTA124TUADICT-ND	.41	3.00	21.12	86.00/M
				22K	—	DDTA124TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				100K	—	DDTA115TUADICT-ND	.41	3.00	21.12	86.00/M
				100K	—	DDTA115TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				200K	—	DDTA125TUADICT-ND	.41	3.00	21.12	86.00/M
				200K	—	DDTA125TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
2	200	100	30	—	10K	DDTA114GUADICT-ND	.41	3.00	21.12	86.00/M
			30	—	10K	DDTA114GUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	—	22K	DDTA124GUADICT-ND	.41	3.00	21.12	86.00/M
			56	—	22K	DDTA124GUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	—	47K	DDTA144GUADICT-ND	.41	3.00	21.12	86.00/M
			68	—	47K	DDTA144GUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			82	—	100K	DDTA115GUADICT-ND	.41	3.00	21.12	86.00/M
			82	—	100K	DDTA115GUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
3	200	100	33	1K	10K	DDTA113ZUADICT-ND	.41	3.00	21.12	86.00/M
			33	1K	10K	DDTA113ZUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			20	2.2K	2.2K	DDTA123EUADICT-ND	.41	3.00	21.12	86.00/M
			20	2.2K	2.2K	DDTA123EUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTA123YUADICT-ND	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTA123YUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTA123JUADICT-ND	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTA123JUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTA143EUADICT-ND	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTA143EUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTA143XUADICT-ND	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTA143XUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	4.7K	22K	DDTA143FUADICT-ND	.41	3.00	21.12	86.00/M
			68	4.7K	22K	DDTA143FUADICT-ND◊	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTA143ZUADICT-ND	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTA143ZUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			24	10K	4.7K	DDTA114WUADICT-ND	.41	3.00	21.12	86.00/M
			24	10K	4.7K	DDTA114WUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTA114EUADICT-ND	.41	3.00	21.12	—
			30	10K	10K	DDTA114EUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	10K	47K	DDTA114YUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTA124XUADICT-ND	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTA124XUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTA144VUADICT-ND	.41	3.00	21.12	—
			33	47K	10K	DDTA144VUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTA144WUADICT-ND	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTA144WUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTA144EUADICT-ND	.41	3.00	21.12	—
			68	47K	47K	DDTA144EUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTA115EUADICT-ND	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTA115EUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTA122LUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTA122LU-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTA142JUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTA142JU-FDICT-ND◊	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTA122TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTA122TU-FDICT-ND◊	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTA142TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTA142TU-FDICT-ND◊	.41	3.00	21.12	86.00/M
		500	56	0.22K	10K	DDTB122LUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTB122LU-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTB142JUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTB142JU-FDICT-ND◊	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTB122TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTB122TU-FDICT-ND◊	.41	3.00	21.12	86.00/M
						PNP SOT-523				
1	150	100	250	1K	—	DDTA113TEDICT-ND	.39	3.00	21.60	102.00/M
				1K	—	DDTA113TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
				4.7K	—	DDTA143TEDICT-ND	.39	3.00	21.60	102.00/M
				4.7K	—	DDTA143TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
				47K	—	DDTA144TEDICT-ND	.39	3.00	21.60	102.00/M
				47K	—	DDTA144TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
2	150	100	68	—	47K	DDTA144GEDICT-ND	.39	3.00	21.60	102.00/M
			68	—	47K	DDTA144GE-FDICT-ND◊	.39	3.00	21.60	102.00/M
3	150	100	30	4.7K	10K	DDTA143XEDICT-ND	.39	3.00	21.60	102.00/M
			30	4.7K	10K	DDTA143XE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			68	4.7K	22K	DDTA143FEDICT-ND	.39	3.00	21.60	102.00/M
			68	4.7K	22K	DDTA143FE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			80	4.7K	47K	DDTA143ZEDICT-ND	.39	3.00	21.60	102.00/M
			80	4.7K	47K	DDTA143ZE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			33	47K	10K	DDTA144VEDICT-ND	.39	3.00	21.60	102.00/M
			33	47K	10K	DDTA144VE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			56	47K	22K	DDTA144WEDICT-ND	.39	3.00	21.60	102.00/M
			56	47K	22K	DDTA144WE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			68	47K	47K	DDTA144EEDICT-ND	.39	3.00	21.60	102.00/M
			68	47K	47K	DDTA144EE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			56	0.22K	10K	DDTA122LEDICT-ND	.39	3.00	21.60	102.00/M
			56	0.22K	10K	DDTA122LE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			56	0.47K	10K	DDTA142JEDICT-ND	.39	3.00	21.60	102.00/M
			56	0.47K	10K	DDTA142JE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			250	0.22K	—	DDTA122TEDICT-ND	.39	3.00	21.60	102.00/M
			250	0.22K	—	DDTA122TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			250	0.47K	—	DDTA142TEDICT-ND	.39	3.00	21.60	102.00/M
			250	0.47K	—	DDTA142TE-FDICT-ND◊	.39	3.00	21.60	102.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

(Continued)

Fig.	Power Dissi-pation (mW)	I_C Max. (mA)	Min. Hfe Gain	Nominal R1 (Ω)	Nominal R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Tape & Reel Pricing* 3,000
						NPN SOT-23				
4	200	100	100	1K	—	DDTC113TCADICT-ND	.41	3.00	21.12	86.00/M
				1K	—	DDTC113TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				2.2K	—	DDTC123TCADICT-ND	.41	3.00	21.12	86.00/M
				2.2K	—	DDTC123TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				4.7K	—	DDTC143TCADICT-ND	.41	3.00	21.12	86.00/M
				4.7K	—	DDTC143TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				10K	—	DDTC114TCADICT-ND	.41	3.00	21.12	86.00/M
				10K	—	DDTC114TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				22	—	DDTC124TCADICT-ND	.41	3.00	21.12	86.00/M
				22	—	DDTC124TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				47K	—	DDTC144TCADICT-ND	.41	3.00	21.12	—
				47K	—	DDTC144TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				100K	—	DDTC115TCADICT-ND	.41	3.00	21.12	86.00/M
				100K	—	DDTC115TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				200K	—	DDTC125TCADICT-ND	.41	3.00	21.12	86.00/M
				200K	—	DDTC125TCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
5	200	100	30	—	10K	DDTC114GCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	—	22K	DDTC124GCADICT-ND	.41	3.00	21.12	86.00/M
			56	—	22K	DDTC124GCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	—	47K	DDTC144GCADICT-ND	.41	3.00	21.12	86.00/M
			68	—	47K	DDTC144GCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			82	—	100K	DDTC115GCADICT-ND	.41	3.00	21.12	86.00/M
			82	—	100K	DDTC115GCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
6	200	100	20	2.2K	2.2K	DDTC123ECADICT-ND	.41	3.00	21.12	—
			20	2.2K	2.2K	DDTC123ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTC143ECADICT-ND	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTC143ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			24	10K	4.7K	DDTC114WCADICT-ND	.41	3.00	21.12	86.00/M
			24	10K	4.7K	DDTC114WCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTC143XCADICT-ND	.41	3.00	21.12	—
			30	4.7K	10K	DDTC143XCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTC114ECADICT-ND	.41	3.00	21.12	—
			30	10K	10K	DDTC114ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			33	1K	10K	DDTC113ZCADICT-ND	.41	3.00	21.12	86.00/M
			33	1K	10K	DDTC113ZCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTC123YCADICT-ND	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTC123YCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTC144VCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	22K	22K	DDTC124ECADICT-ND	.41	3.00	21.12	86.00/M
			56	22K	22K	DDTC124ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTC144WCADICT-ND	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTC144WCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	4.7K	22K	DDTC143FCADICT-ND	.41	3.00	21.12	86.00/M
			68	4.7K	22K	DDTC143FCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	10K	47K	DDTC114YCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
		200	68	22K	47K	DDTC124XCADICT-ND	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTC124XCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTC144ECADICT-ND	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTC144ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTC123JCADICT-ND	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTC123JCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTC143ZCADICT-ND	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTC143ZCA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTC115ECADICT-ND	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTC115ECA-FDICT-ND◊	.41	3.00	21.12	86.00/M
		500	56	0.22K	10K	DDTD122LCDICT-ND	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTD122LC-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTD142JCDICT-ND	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTD142JC-FDICT-ND◊	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTD122TCDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTD122TC-FDICT-ND◊	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTD142TCDICT-ND	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTD142TC-FDICT-ND◊	.41	3.00	21.12	86.00/M
						NPN SOT-323				
4	200	100	100	1K	—	DDTC113TUADICT-ND	.41	3.00	21.12	86.00/M
				1K	—	DDTC113TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				2.2K	—	DDTC123TUADICT-ND	.41	3.00	21.12	86.00/M
				2.2K	—	DDTC123TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				4.7K	—	DDTC143TUADICT-ND	.41	3.00	21.12	86.00/M
				4.7K	—	DDTC143TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				10K	—	DDTC114TUADICT-ND	.41	3.00	21.12	86.00/M
				10K	—	DDTC114TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				22K	—	DDTC124TUADICT-ND	.41	3.00	21.12	86.00/M
				22K	—	DDTC124TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				47K	—	DDTC144TUADICT-ND	.41	3.00	21.12	86.00/M
				47K	—	DDTC144TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				100K	—	DDTC115TUADICT-ND	.41	3.00	21.12	86.00/M
				100K	—	DDTC115TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
				200K	—	DDTC125TUADICT-ND	.41	3.00	21.12	86.00/M
				200K	—	DDTC125TUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
5	200	100	30	—	10K	DDTC114GUADICT-ND	.41	3.00	21.12	86.00/M
			30	—	10K	DDTC114GUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	—	22K	DDTC124GUADICT-ND	.41	3.00	21.12	86.00/M
			56	—	22K	DDTC124GUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	—	47K	DDTC144GUADICT-ND	.41	3.00	21.12	86.00/M
			68	—	47K	DDTC144GUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			82	—	100K	DDTC115GUADICT-ND	.41	3.00	21.12	86.00/M
			82	—	100K	DDTC115GUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
6	200	100	20	2.2K	2.2K	DDTC123EUADICT-ND	.41	3.00	21.12	86.00/M
			20	2.2K	2.2K	DDTC123EUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			20	4.7K	4.7K	DDTC143EUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTC114EUADICT-ND	.41	3.00	21.12	86.00/M
			30	10K	10K	DDTC114EUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	47K	47K	DDTC144EUADICT-ND	.41	3.00	21.12	—
			68	47K	47K	DDTC144EUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			82	100K	100K	DDTC115EUADICT-ND	.41	3.00	21.12	86.00/M
6	200	100	82	100K	100K	DDTC115EUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			33	1K	10K	DDTC113ZUADICT-ND	.41	3.00	21.12	86.00/M
			33	1K	10K	DDTC113ZUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTC123YUADICT-ND	.41	3.00	21.12	86.00/M
			33	2.2K	10K	DDTC123YUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTC123JUADICT-ND	.41	3.00	21.12	86.00/M
			80	2.2K	47K	DDTC123JUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTC143XUADICT-ND	.41	3.00	21.12	86.00/M
			30	4.7K	10K	DDTC143XUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	4.7K	22K	DDTC143FUADICT-ND	.41	3.00	21.12	86.00/M
			68	4.7K	22K	DDTC143FUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTC143ZUADICT-ND	.41	3.00	21.12	86.00/M
			80	4.7K	47K	DDTC143ZUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	10K	4.7K	DDTC114WUADICT-ND	.41	3.00	21.12	86.00/M
			68	10K	4.7K	DDTC114WUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			24	10K	47K	DDTC114YUADICT-ND	.41	3.00	21.12	86.00/M
			24	10K	47K	DDTC114YUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTC124XUADICT-ND	.41	3.00	21.12	86.00/M
			68	22K	47K	DDTC124XUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTC144VUADICT-ND	.41	3.00	21.12	86.00/M
			33	47K	10K	DDTC144VUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTC144WUADICT-ND	.41	3.00	21.12	86.00/M
			56	47K	22K	DDTC144WUA-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTC122LUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTC122LU-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTC142JUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTC142JU-FDICT-ND◊	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTC122TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTC122TU-FDICT-ND◊	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTC142TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTC142TU-FDICT-ND◊	.41	3.00	21.12	86.00/M
		500	56	0.22K	10K	DDTD122LUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.22K	10K	DDTD122LU-FDICT-ND◊	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTD142JUDICT-ND	.41	3.00	21.12	86.00/M
			56	0.47K	10K	DDTD142JU-FDICT-ND◊	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTD122TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.22K	—	DDTD122TU-FDICT-ND◊	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTD142TUDICT-ND	.41	3.00	21.12	86.00/M
			250	0.47K	—	DDTD142TU-FDICT-ND◊	.41	3.00	21.12	86.00/M
						NPN SOT-523				
4	150	100	250	1K	—	DDTC113TEDICT-ND	.39	3.00	21.60	102.00/M
				1K	—	DDTC113TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
				2.2K	—	DDTC123TEDICT-ND	.39	3.00	21.60	102.00/M
				2.2K	—	DDTC123TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
				4.7K	—	DDTC143TEDICT-ND	.39	3.00	21.60	102.00/M
				4.7K	—	DDTC143TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
				10K	—	DDTC114TEDICT-ND	.39	3.00	21.60	102.00/M
				10K	—	DDTC114TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
				22K	—	DDTC124TEDICT-ND	.39	3.00	21.60	102.00/M
				22K	—	DDTC124TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
				47K	—	DDTC144TEDICT-ND	.39	3.00	21.60	102.00/M
				47K	—	DDTC144TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
				100K	—	DDTC115TEDICT-ND	.39	3.00	21.60	102.00/M
				100K	—	DDTC115TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
				200K	—	DDTC125TEDICT-ND	.39	3.00	21.60	102.00/M
				200K	—	DDTC125TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
5	150	100	30	—	10K	DDTC114GEDICT-ND	.39	3.00	21.60	102.00/M
			30	—	10K	DDTC114GE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			56	—	22K	DDTC124GEDICT-ND	.39	3.00	21.60	102.00/M
			56	—	22K	DDTC124GE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			68	—	47K	DDTC144GEDICT-ND	.39	3.00	21.60	102.00/M
			68	—	47K	DDTC144GE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			82	—	100K	DDTC115GEDICT-ND	.39	3.00	21.60	102.00/M
			82	—	100K	DDTC115GE-FDICT-ND◊	.39	3.00	21.60	102.00/M
6	150	100	33	1K	10K	DDTC113ZEDICT-ND	.39	3.00	21.60	102.00/M
			33	1K	10K	DDTC113ZE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			33	2.2K	10K	DDTC123YEDICT-ND	.39	3.00	21.60	—
			33	2.2K	10K	DDTC123YE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			80	2.2K	47K	DDTC123JEDICT-ND	.39	3.00	21.60	102.00/M
			80	2.2K	47K	DDTC123JE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			30	4.7K	10K	DDTC143XEDICT-ND	.39	3.00	21.60	102.00/M
			30	4.7K	10K	DDTC143XE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			68	4.7K	22K	DDTC143FEDICT-ND	.39	3.00	21.60	102.00/M
			68	4.7K	22K	DDTC143FE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			80	4.7K	47K	DDTC143ZEDICT-ND	.39	3.00	21.60	102.00/M
			24	10K	4.7K	DDTC114WEDICT-ND	.39	3.00	21.60	102.00/M
			24	10K	4.7K	DDTC114WE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			68	10K	47K	DDTC114YEDICT-ND	.39	3.00	21.60	102.00/M
			68	10K	47K	DDTC114YE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			68	22K	47K	DDTC124XEDICT-ND	.39	3.00	21.60	102.00/M
			68	22K	47K	DDTC124XE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			33	47K	10K	DDTC144VEDICT-ND	.39	3.00	21.60	102.00/M
			33	47K	10K	DDTC144VE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			56	47K	22K	DDTC144WEDICT-ND	.39	3.00	21.60	102.00/M
			56	47K	22K	DDTC144WE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			20	2.2K	2.2K	DDTC123EEDICT-ND	.39	3.00	21.60	102.00/M
			20	2.2K	2.2K	DDTC123EE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			20	4.7K	4.7K	DDTC143EEDICT-ND	.39	3.00	21.60	102.00/M
			20	4.7K	4.7K	DDTC143EE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			30	10K	10K	DDTC114EEDICT-ND	.39	3.00	21.60	102.00/M
			30	10K	10K	DDTC114EE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			68	47K	47K	DDTC144EEDICT-ND	.39	3.00	21.60	—
			68	47K	47K	DDTC144EE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			82	100K	100K	DDTC115EEDICT-ND	.39	3.00	21.60	102.00/M
			82	100K	100K	DDTC115EE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			56	0.22K	10K	DDTC122LEDICT-ND	.39	3.00	21.60	102.00/M
			56	0.22K	10K	DDTC122LE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			56	0.47K	10K	DDTC142JEDICT-ND	.39	3.00	21.60	102.00/M
			56	0.47K	10K	DDTC142JE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			250	0.22K	—	DDTC122TEDICT-ND	.39	3.00	21.60	102.00/M
			250	0.22K	—	DDTC122TE-FDICT-ND◊	.39	3.00	21.60	102.00/M
			250	0.47K	—	DDTC142TEDICT-ND	.39	3.00	21.60	102.00/M
			250	0.47K	—	DDTC142TE-FDICT-ND◊	.39	3.00	21.60	102.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

DIODES INCORPORATED

Zener Diodes

DO-35 Zener Diodes — 500mW (+5%)

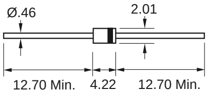

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel Pricing
				1	10	100	1,000		10,000
3.3	20	28	1N5226BDICT-ND	.36	2.10	13.65	56.70	—	—
3.6	20	24	1N5227BDICT-ND	.36	2.10	13.65	56.70	—	—
3.9	20	23	1N5228BDICT-ND	.36	2.10	13.65	56.70	1N5228BDITR-ND	36.00/M
4.3	20	22	1N5229BDICT-ND	.36	2.10	13.65	56.70	1N5229BDITR-ND	36.00/M
4.7	20	19	1N5230BDICT-ND	.36	2.10	13.65	56.70	1N5230BDITR-ND	36.00/M
5.1	20	17	1N5231BDICT-ND	.36	2.10	13.65	56.70	1N5231BDITR-ND	36.00/M
5.6	20	11	1N5232BDICT-ND	.36	2.10	13.65	56.70	1N5232BDITR-ND	36.00/M
6.0	20	7	1N5233BDICT-ND	.36	2.10	13.65	56.70	1N5233BDITR-ND	36.00/M
6.2	20	7	1N5234BDICT-ND	.36	2.10	13.65	56.70	1N5234BDITR-ND	36.00/M
6.8	20	5	1N5235BDICT-ND	.36	2.10	13.65	56.70	1N5235BDITR-ND	36.00/M
7.5	20	6	1N5236BDICT-ND	.36	2.10	13.65	56.70	1N5236BDITR-ND	36.00/M
8.2	20	8	1N5237BDICT-ND	.36	2.10	13.65	56.70	1N5237BDITR-ND	36.00/M
8.7	20	8	1N5238BDICT-ND	.36	2.10	13.65	56.70	1N5238BDITR-ND	36.00/M
9.1	20	10	1N5239BDICT-ND	.36	2.10	13.65	56.70	1N5239BDITR-ND	36.00/M
10	20	17	1N5240BDICT-ND	.36	2.10	13.65	56.70	1N5240BDITR-ND	36.00/M
11	20	22	1N5241BDICT-ND	.36	2.10	13.65	56.70	1N5241BDITR-ND	36.00/M
12	20	30	1N5242BDICT-ND	.36	2.10	13.65	56.70	1N5242BDITR-ND	36.00/M
13	9.5	13	1N5243BDICT-ND	.36	2.10	13.65	56.70	1N5243BDITR-ND	36.00/M
14	9.0	15	1N5244BDICT-ND	.36	2.10	13.65	56.70	1N5244BDITR-ND	36.00/M
15	8.5	16	1N5245BDICT-ND	.36	2.10	13.65	56.70	1N5245BDITR-ND	36.00/M
16	7.8	17	1N5246BDICT-ND	.36	2.10	13.65	56.70	1N5246BDITR-ND	36.00/M
17	7.4	19	1N5247BDICT-ND	.36	2.10	13.65	56.70	1N5247BDITR-ND	36.00/M
18	7.0	21	1N5248BDICT-ND	.36	2.10	13.65	56.70	1N5248BDITR-ND	36.00/M
19	6.6	23	1N5249BDICT-ND	.36	2.10	13.65	56.70	1N5249BDITR-ND	36.00/M
20	6.2	25	1N5250BDICT-ND	.36	2.10	13.65	56.70	1N5250BDITR-ND	36.00/M
22	5.6	29	1N5251BDICT-ND	.36	2.10	13.65	56.70	1N5251BDITR-ND	36.00/M
24	5.2	33	1N5252BDICT-ND	.36	2.10	13.65	56.70	1N5252BDITR-ND	36.00/M
25	5.0	35	1N5253BDICT-ND	.36	2.10	13.65	56.70	1N5253BDITR-ND	36.00/M
27	4.6	41	1N5254BDICT-ND	.36	2.10	13.65	56.70	1N5254BDITR-ND	36.00/M
28	4.5	44	1N5255BDICT-ND	.36	2.10	13.65	56.70	1N5255BDITR-ND	36.00/M
30	4.2	49	1N5256BDICT-ND	.36	2.10	13.65	56.70	1N5256BDITR-ND	36.00/M
30	4.2	49	1N5256B-FDICT-ND◊	.36	2.10	13.65	56.70	1N5256B-FDITR-ND◊	36.00/M
33	3.8	58	1N5257BDICT-ND	.36	2.10	13.65	56.70	1N5257BDITR-ND	36.00/M
36	3.4	70	1N5258BDICT-ND	.36	2.10	13.65	56.70	1N5258BDITR-ND	36.00/M
39	3.2	80	1N5259BDICT-ND	.36	2.10	13.65	56.70	1N5259BDITR-ND	36.00/M
43	3.0	93	1N5260BDICT-ND	.36	2.10	13.65	56.70	1N5260BDITR-ND	36.00/M
47	2.7	105	1N5261BDICT-ND	.36	2.10	13.65	56.70	1N5261BDITR-ND	36.00/M
51	2.5	125	1N5262BDICT-ND	.36	2.10	13.65	56.70	1N5262BDITR-ND	36.00/M

◊ ***RoHS Compliant***

DO-41 Zener Diodes — 1W (+5%)

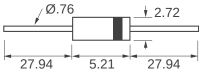

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel Pricing
				1	10	100	1,000		5,000
3.3	76	10.0	1N4728ADICT-ND	.36	2.48	17.16	75.90	1N4728ADITR-ND	59.40/M
3.6	69	10.0	1N4729ADICT-ND	.36	2.48	17.16	75.90	1N4729ADITR-ND	59.00/M
3.9	64	9.0	1N4730ADICT-ND	.36	2.48	17.16	75.90	1N4730ADITR-ND	59.00/M
4.3	58	9.0	1N4731ADICT-ND	.36	2.48	17.16	75.90	1N4731ADITR-ND	59.00/M
4.7	53	8.0	1N4732ADICT-ND	.36	2.48	17.16	75.90	1N4732ADITR-ND	59.00/M
5.1	49	7.0	1N4733ADICT-ND	.36	2.48	17.16	75.90	1N4733ADITR-ND	59.00/M
5.6	45	5.0	1N4734ADICT-ND	.36	2.48	17.16	75.90	1N4734ADITR-ND	59.00/M
6.2	41	2.0	1N4735ADICT-ND	.36	2.48	17.16	75.90	1N4735ADITR-ND	59.00/M
6.8	37	3.5	1N4736ADICT-ND	.36	2.48	17.16	75.90	1N4736ADITR-ND	59.00/M
7.5	34	4.0	1N4737ADICT-ND	.36	2.48	17.16	75.90	1N4737ADITR-ND	59.00/M
8.2	31	4.5	1N4738ADICT-ND	.36	2.48	17.16	75.90	1N4738ADITR-ND	59.00/M
9.1	28	5.0	1N4739ADICT-ND	.36	2.48	17.16	75.90	1N4739ADITR-ND	59.40/M
10	25	7.0	1N4740ADICT-ND	.36	2.48	17.16	75.90	1N4740ADITR-ND	59.00/M
11	23	8	1N4741ADICT-ND	.36	2.48	17.16	75.90	1N4741ADITR-ND	59.00/M
12	21	9	1N4742ADICT-ND	.36	2.48	17.16	75.90	1N4742ADITR-ND	59.40/M
13	19	10	1N4743ADICT-ND	.36	2.48	17.16	75.90	1N4743ADITR-ND	59.00/M
15	17	14	1N4744ADICT-ND	.36	2.48	17.16	75.90	1N4744ADITR-ND	59.00/M
16	15	16	1N4745ADICT-ND	.36	2.48	17.16	75.90	1N4745ADITR-ND	59.00/M
18	14	20	1N4746ADICT-ND	.36	2.48	17.16	75.90	1N4746ADITR-ND	59.00/M
20	12.5	22	1N4747ADICT-ND	.36	2.48	17.16	75.90	1N4747ADITR-ND	59.00/M
22	11.5	23	1N4748ADICT-ND	.36	2.48	17.16	75.90	1N4748ADITR-ND	59.00/M
24	10.5	25	1N4749ADICT-ND	.36	2.48	17.16	75.90	1N4749ADITR-ND	59.00/M
27	9.5	35	1N4750ADICT-ND	.36	2.48	17.16	75.90	1N4750ADITR-ND	59.00/M
30	8.5	40	1N4751ADICT-ND	.36	2.48	17.16	75.90	1N4751ADITR-ND	59.00/M
33	7.5	45	1N4752ADICT-ND	.36	2.48	17.16	75.90	1N4752ADITR-ND	59.00/M
36	7	50	1N4753ADICT-ND	.36	2.48	17.16	75.90	1N4753ADITR-ND	59.00/M
39	6.5	60	1N4754ADICT-ND	.36	2.48	17.16	75.90	1N4754ADITR-ND	59.00/M
43	6	70	1N4755ADICT-ND	.36	2.48	17.16	75.90	1N4755ADITR-ND	59.00/M
47	55	80	1N4756ADICT-ND	.36	2.48	17.16	75.90	1N4756ADITR-ND	59.00/M
51	5	95	1N4757ADICT-ND	.36	2.48	17.16	75.90	1N4757ADITR-ND	59.00/M
56	4.5	110	1N4758ADICT-ND	.36	2.48	17.16	75.90	1N4758ADITR-ND	59.00/M
62	4	125	1N4759ADICT-ND	.36	2.48	17.16	75.90	1N4759ADITR-ND	59.00/M
68	3.7	150	1N4760ADICT-ND	.36	2.48	17.16	75.90	1N4760ADITR-ND	59.00/M
75	3.3	175	1N4761ADICT-ND	.36	2.48	17.16	75.90	1N4761ADITR-ND	59.00/M

PowerDI™ 123 Surface Mount Power Zener Diodes — 1W

RoHS COMPLIANT

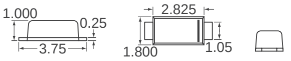

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel Pricing
				1	10	100	1,000		3,000
5.1	100	6	DFLZ5V1DICT-ND	.60	4.80	36.00	192.00	DFLZ5V1DITR-ND	180.00/M
5.6	100	4	DFLZ5V6DICT-ND	.60	4.80	36.00	192.00	DFLZ5V6DITR-ND	180.00/M
6.2	100	3	DFLZ6V2DICT-ND	.60	4.80	36.00	192.00	DFLZ6V2DITR-ND	180.00/M
6.8	100	3	DFLZ6V8DICT-ND	.60	4.80	36.00	192.00	DFLZ6V8DITR-ND	180.00/M
8.2	100	2	DFLZ8V2DICT-ND	.60	4.80	36.00	192.00	DFLZ8V2DITR-ND	180.00/M
9.1	50	4	DFLZ9V1DICT-ND	.60	4.80	36.00	192.00	DFLZ9V1DITR-ND	180.00/M
10	50	4	DFLZ10DICT-ND	.60	4.80	36.00	192.00	DFLZ10DITR-ND	180.00/M
12	50	7	DFLZ12DICT-ND	.60	4.80	36.00	192.00	DFLZ12DITR-ND	180.00/M
15	50	10	DFLZ15DICT-ND	.60	4.80	36.00	192.00	DFLZ15DITR-ND	180.00/M
16	25	15	DFLZ16DICT-ND	.60	4.80	36.00	192.00	DFLZ16DITR-ND	180.00/M
18	25	15	DFLZ18DICT-ND	.60	4.80	36.00	192.00	DFLZ18DITR-ND	180.00/M
20	25	15	DFLZ20DICT-ND	.60	4.80	36.00	192.00	DFLZ20DITR-ND	180.00/M
24	25	15	DFLZ24DICT-ND	.60	4.80	36.00	192.00	DFLZ24DITR-ND	180.00/M
27	25	15	DFLZ27DICT-ND	.60	4.80	36.00	192.00	DFLZ27DITR-ND	180.00/M
30	25	15	DFLZ30DICT-ND	.60	4.80	36.00	192.00	DFLZ30DITR-ND	180.00/M
33	25	15	DFLZ33DICT-ND	.60	4.80	36.00	192.00	DFLZ33DITR-ND	180.00/M
39	10	40	DFLZ39DICT-ND	.60	4.80	36.00	192.00	DFLZ39DITR-ND	180.00/M

SOD-123 Surface Mount Zener Diodes — 500mW

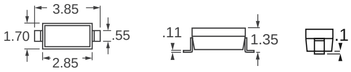

Bottom View

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing
				10	100	1,000		3,000
BZT Series								
2.4	5	100	BZT52C2V4-7DICT-ND BZT52C2V4-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	— BZT52C2V4-FDITR-ND◊ BZT52C2V4-13DITR-ND†	— 90.00/M 78.00/M
2.7	5	100	BZT52C2V7-7DICT-ND BZT52C2V7-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	BZT52C2V7-7DITR-ND BZT52C2V7-FDITR-ND◊ BZT52C2V7-13DITR-ND†	90.00/M 90.00/M 78.00/M
3.0	5	95	BZT52C3V0-7DICT-ND BZT52C3V0-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	BZT52C3V0-7DITR-ND BZT52C3V0-FDITR-ND◊ BZT52C3V0-13DITR-ND†	90.00/M 90.00/M 78.00/M
3.3	5	95	BZT52C3V3-FDICT-ND◊ —	3.13 —	22.00 —	100.00 —	BZT52C3V3-FDITR-ND◊ BZT52C3V3-13DITR-ND†	90.00/M 78.00/M
3.6	5	90	BZT52C3V6-7DICT-ND BZT52C3V6-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	BZT52C3V6-7DITR-ND BZT52C3V6-FDITR-ND◊ BZT52C3V6-13DITR-ND†	90.00/M 90.00/M 78.00/M
3.9	5	90	BZT52C3V9-FDICT-ND◊ —	3.13 —	22.00 —	100.00 —	BZT52C3V9-FDITR-ND◊ BZT52C3V9-13DITR-ND†	90.00/M 78.00/M
4.3	5	90	BZT52C4V3-7DICT-ND BZT52C4V3-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	BZT52C4V3-7DITR-ND BZT52C4V3-FDITR-ND◊ BZT52C4V3-13DITR-ND†	90.00/M 90.00/M 78.00/M
4.7	5	80	BZT52C4V7-FDICT-ND◊ BZT52C4V7-13-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	BZT52C4V7-FDITR-ND◊ BZT52C4V7-13-FDITR-ND◊† BZT52C4V7-13DITR-ND†	90.00/M 77.50/M 78.00/M
5.1	5	60	BZT52C5V1-FDICT-ND◊ —	3.13 —	22.00 —	100.00 —	BZT52C5V1-FDITR-ND◊ BZT52C5V1-13DITR-ND†	90.00/M 78.00/M
5.6	5	40	BZT52C5V6-FDICT-ND◊ —	3.13 —	22.00 —	100.00 —	BZT52C5V6-FDITR-ND◊ BZT52C5V6-13DITR-ND†	90.00/M 78.00/M
6.2	5	10	BZT52C6V2-7DICT-ND BZT52C6V2-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	BZT52C6V2-7DITR-ND BZT52C6V2-FDITR-ND◊ BZT52C6V2-13DITR-ND†	90.00/M 90.00/M 78.00/M
6.8	5	15	BZT52C6V8-7DICT-ND BZT52C6V8-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	BZT52C6V8-7DITR-ND BZT52C6V8-FDITR-ND◊ BZT52C6V8-13DITR-ND†	90.00/M 90.00/M 78.00/M
7.5	5	15	BZT52C7V5-7DICT-ND BZT52C7V5-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	— BZT52C7V5-FDITR-ND◊ BZT52C7V5-13DITR-ND†	— 90.00/M 78.00/M
8.2	5	15	BZT52C8V2-7DICT-ND BZT52C8V2-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	— BZT52C8V2-FDITR-ND◊ BZT52C8V2-13DITR-ND†	— 90.00/M 78.00/M
9.1	5	15	BZT52C9V1-7DICT-ND BZT52C9V1-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	— BZT52C9V1-FDITR-ND◊ BZT52C9V1-13DITR-ND†	— 90.00/M 78.00/M
10	5	20	BZT52C10-7DICT-ND BZT52C10-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	— BZT52C10-FDITR-ND◊ BZT52C10-13DITR-ND†	— 90.00/M 78.00/M
11	5	20	BZT52C11-7DICT-ND BZT52C11-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	BZT52C11-7DITR-ND BZT52C11-FDITR-ND◊ BZT52C11-13DITR-ND†	90.00/M 90.00/M 78.00/M
12	5	25	BZT52C12-FDICT-ND◊ —	3.13 —	22.00 —	100.00 —	BZT52C12-FDITR-ND◊ BZT52C12-13DITR-ND†	90.00/M 78.00/M
13	5	30	BZT52C13-FDICT-ND◊	3.13	22.00	100.00	BZT52C13-FDITR-ND◊	90.00/M
15	5	30	BZT52C15-FDICT-ND◊ —	3.13 —	22.00 —	100.00 —	BZT52C15-FDITR-ND◊ BZT52C15-13DITR-ND†	90.00/M 78.00/M
16	5	40	BZT52C16-7DICT-ND BZT52C16-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	— BZT52C16-FDITR-ND◊ BZT52C16-13DITR-ND†	— 90.00/M 78.00/M
18	5	45	BZT52C18-FDICT-ND◊ —	3.13 —	22.00 —	100.00 —	BZT52C18-FDITR-ND◊ BZT52C18-13DITR-ND†	90.00/M 78.00/M
20	5	55	BZT52C20-7DICT-ND BZT52C20-FDICT-ND◊ —	3.13 3.13 —	22.00 22.00 —	100.00 100.00 —	— BZT52C20-FDITR-ND◊ BZT52C20-13DITR-ND†	— 90.00/M 78.00/M

† Tape and Reel size is 10,000. ◊ ***RoHS Compliant***

(Continued)

SOD-123 Surface Mount Zener Diodes — 500mW *(Cont.)*

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				10	100	1,000		
22	5	55	BZT52C22-7DICT-ND	3.13	22.00	100.00	—	—
			BZT52C22-FDICT-ND◊	3.13	22.00	100.00	BZT52C22-FDITR-ND◊	90.00/M
			—	—	—	—	BZT52C22-13DITR-ND†	78.00/M
24	5	70	BZT52C24-7DICT-ND	3.13	22.00	100.00	—	—
			BZT52C24-FDICT-ND◊	3.13	22.00	100.00	BZT52C24-FDITR-ND◊	90.00/M
			—	—	—	—	BZT52C24-13DITR-ND†	78.00/M
27	2	80	BZT52C27-7DICT-ND	3.13	22.00	100.00	—	—
			BZT52C27-FDICT-ND◊	3.13	22.00	100.00	BZT52C27-FDITR-ND◊	90.00/M
			—	—	—	—	BZT52C27-13DITR-ND†	—
			BZT52C27-13-FDICT-ND◊	3.13	22.00	100.00	BZT52C27-13-FDITR-ND◊†	78.00/M
30	2	80	BZT52C30-7DICT-ND	3.13	22.00	100.00	—	—
			BZT52C30-FDICT-ND◊	3.13	22.00	100.00	BZT52C30-FDITR-ND◊	90.00/M
			—	—	—	—	BZT52C30-13DITR-ND†	78.00/M
33	2	80	BZT52C33-FDICT-ND◊	3.13	22.00	100.00	BZT52C33-FDITR-ND◊	90.00/M
			—	—	—	—	BZT52C33-13DITR-ND†	78.00/M
36	2	90	BZT52C36-7DICT-ND	3.13	22.00	100.00	BZT52C36-7DITR-ND	90.00/M
			BZT52C36-FDICT-ND◊	3.13	22.00	100.00	BZT52C36-FDITR-ND◊	90.00/M
			—	—	—	—	BZT52C36-13DITR-ND†	78.00/M
39	2	130	BZT52C39-FDICT-ND◊	3.13	22.00	100.00	BZT52C39-FDITR-ND◊	90.00/M
			—	—	—	—	BZT52C39-13DITR-ND†	78.00/M
			BZT52C39-13-FDICT-ND◊	3.13	22.00	100.00	BZT52C39-13-FDITR-ND◊†	78.00/M
43	5	100	BZT52C43-7DICT-ND	3.13	22.00	100.00	BZT52C43-7DITR-ND	90.00/M
			BZT52C43-FDICT-ND◊	3.13	22.00	100.00	BZT52C43-FDITR-ND◊	90.00/M
			—	—	—	—	BZT52C43-13DITR-ND†	78.00/M
47	5	100	BZT52C47-FDICT-ND◊	3.13	22.00	100.00	BZT52C47-FDITR-ND◊	90.00/M
51	5	100	BZT52C51-7DICT-ND	3.13	22.00	100.00	BZT52C51-7DITR-ND	90.00/M
			BZT52C51-FDICT-ND◊	3.13	22.00	100.00	BZT52C51-FDITR-ND◊	90.00/M
MMSZ Series								
2.4	20	30	MMSZ5221BDICT-ND	3.13	22.00	100.00	MMSZ5221BDITR-ND	90.00/M
2.4	20	30	MMSZ5221B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5221B-FDITR-ND◊	90.00/M
2.7	20	30	MMSZ5223BDICT-ND	3.13	22.00	100.00	MMSZ5223BDITR-ND	90.00/M
2.7	20	30	MMSZ5223B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5223B-FDITR-ND◊	90.00/M
3.0	20	30	MMSZ5225BDICT-ND	3.13	22.00	100.00	MMSZ5225BDITR-ND	90.00/M
3.0	20	30	MMSZ5225B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5225B-FDITR-ND◊	90.00/M
3.3	20	28	MMSZ5226B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5226B-FDITR-ND◊	90.00/M
3.6	20	24	MMSZ5227BDICT-ND	3.13	22.00	100.00	MMSZ5227BDITR-ND	90.00/M
3.6	20	24	MMSZ5227B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5227B-FDITR-ND◊	90.00/M
3.9	20	23	MMSZ5228BDICT-ND	3.13	22.00	100.00	MMSZ5228BDITR-ND	90.00/M
3.9	20	23	MMSZ5228B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5228B-FDITR-ND◊	90.00/M
4.3	20	22	MMSZ5229BDICT-ND	3.13	22.00	100.00	—	—
4.3	20	22	MMSZ5229B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5229B-FDITR-ND◊	90.00/M
4.7	20	19	MMSZ5230BDICT-ND	3.13	22.00	100.00	MMSZ5230BDITR-ND	90.00/M
4.7	20	19	MMSZ5230B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5230B-FDITR-ND◊	90.00/M
5.1	20	17	MMSZ5231B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5231B-FDITR-ND◊	90.00/M
5.6	20	11	MMSZ5232B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5232B-FDITR-ND◊	90.00/M
6.0	20	7	MMSZ5233B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5233B-FDITR-ND◊	90.00/M
6.2	20	7	MMSZ5234BDICT-ND	3.13	22.00	100.00	—	—
6.2	20	7	MMSZ5234B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5234B-FDITR-ND◊	90.00/M
6.8	20	5	MMSZ5235BDICT-ND	3.13	22.00	100.00	MMSZ5235BDITR-ND	90.00/M
6.8	20	5	MMSZ5235B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5235B-FDITR-ND◊	90.00/M
7.5	20	6	MMSZ5236BDICT-ND	3.13	22.00	100.00	—	—
7.5	20	6	MMSZ5236B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5236B-FDITR-ND◊	90.00/M
8.2	20	8	MMSZ5237BDICT-ND	3.13	22.00	100.00	MMSZ5237BDITR-ND	90.00/M
8.2	20	8	MMSZ5237B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5237B-FDITR-ND◊	90.00/M
8.7	20	8	MMSZ5238B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5238B-FDITR-ND◊	90.00/M
9.1	20	10	MMSZ5239B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5239B-FDITR-ND◊	90.00/M
10	20	17	MMSZ5240BDICT-ND	3.13	22.00	100.00	MMSZ5240BDITR-ND	90.00/M
10	20	17	MMSZ5240B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5240B-FDITR-ND◊	90.00/M
11	20	22	MMSZ5241BDICT-ND	3.13	22.00	100.00	—	—
11	20	22	MMSZ5241B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5241B-FDITR-ND◊	90.00/M
12	20	30	MMSZ5242BDICT-ND	3.13	22.00	100.00	MMSZ5242BDITR-ND	90.00/M
12	20	30	MMSZ5242B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5242B-FDITR-ND◊	90.00/M
13	9.5	13	MMSZ5243BDICT-ND	3.13	22.00	100.00	MMSZ5243BDITR-ND	90.00/M
13	9.5	13	MMSZ5243B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5243B-FDITR-ND◊	90.00/M
15	8.5	16	MMSZ5245B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5245B-FDITR-ND◊	90.00/M
16	7.8	17	MMSZ5246BDICT-ND	3.13	22.00	100.00	MMSZ5246BDITR-ND	90.00/M
16	7.8	17	MMSZ5246B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5246B-FDITR-ND◊	90.00/M
18	7.0	21	MMSZ5248BDICT-ND	3.13	22.00	100.00	MMSZ5248BDITR-ND	90.00/M
18	7.0	21	MMSZ5248B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5248B-FDITR-ND◊	90.00/M
20	6.2	25	MMSZ5250BDICT-ND	3.13	22.00	100.00	MMSZ5250BDITR-ND	90.00/M
20	6.2	25	MMSZ5250B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5250B-FDITR-ND◊	90.00/M
22	5.6	29	MMSZ5251BDICT-ND	3.13	22.00	100.00	MMSZ5251BDITR-ND	90.00/M
22	5.6	29	MMSZ5251B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5251B-FDITR-ND◊	90.00/M
24	5.2	33	MMSZ5252BDICT-ND	3.13	22.00	100.00	MMSZ5252BDITR-ND	90.00/M
24	5.2	33	MMSZ5252B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5252B-FDITR-ND◊	90.00/M
27	5.0	41	MMSZ5254BDICT-ND	3.13	22.00	100.00	MMSZ5254BDITR-ND	90.00/M
27	5.0	41	MMSZ5254B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5254B-FDITR-ND◊	90.00/M
28	4.5	44	MMSZ5255BDICT-ND	3.13	22.00	100.00	MMSZ5255BDITR-ND	90.00/M
28	4.5	44	MMSZ5255B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5255B-FDITR-ND◊	90.00/M
30	4.2	49	MMSZ5256BDICT-ND	3.13	22.00	100.00	MMSZ5256BDITR-ND	90.00/M
30	4.2	49	MMSZ5256B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5256B-FDITR-ND◊	90.00/M
33	3.8	58	MMSZ5257BDICT-ND	3.13	22.00	100.00	—	—
33	3.8	58	MMSZ5257B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5257B-FDITR-ND◊	90.00/M
36	3.4	70	MMSZ5258BDICT-ND	3.13	22.00	100.00	—	—
36	3.4	70	MMSZ5258B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5258B-FDITR-ND◊	90.00/M
39	3.2	80	MMSZ5259BDICT-ND	3.13	22.00	100.00	MMSZ5259BDITR-ND	90.00/M
39	3.2	80	MMSZ5259B-FDICT-ND◊	3.13	22.00	100.00	MMSZ5259B-FDITR-ND◊	90.00/M
DDZ Series								
5.1	.05	—	DDZ9689DICT-ND	2.81	19.80	90.00	DDZ9689DITR-ND	81.00/M
5.1	20	17	DDZ5V1BDICT-ND	2.81	19.80	90.00	DDZ5V1BDITR-ND	81.00/M
5.6	.05	—	DDZ9690DICT-ND	2.81	19.80	90.00	DDZ9690DITR-ND	81.00/M
5.6	20	11	DDZ5V6BDICT-ND	2.81	19.80	90.00	DDZ5V6BDITR-ND	81.00/M
6.2	.05	—	DDZ9691DICT-ND	2.81	19.80	90.00	DDZ9691DITR-ND	81.00/M
6.2	20	7	DDZ6V2BDICT-ND	2.81	19.80	90.00	DDZ6V2BDITR-ND	81.00/M
6.8	.05	—	DDZ9692DICT-ND	2.81	19.80	90.00	DDZ9692DITR-ND	81.00/M
7.5	.05	—	DDZ9693DICT-ND	2.81	19.80	90.00	DDZ9693DITR-ND	81.00/M
7.5	20	6	DDZ7V5CDICT-ND	2.81	19.80	90.00	DDZ7V5CDITR-ND	81.00/M
8.2	.05	—	DDZ9694DICT-ND	2.81	19.80	90.00	DDZ9694DITR-ND	81.00/M
8.2	20	8	DDZ8V2CDICT-ND	2.81	19.80	90.00	DDZ8V2CDITR-ND	81.00/M
9.1	.05	—	DDZ9696DICT-ND	2.81	19.80	90.00	DDZ9696DITR-ND	81.00/M
9.1	20	8	DDZ9V1CDICT-ND	2.81	19.80	90.00	DDZ9V1CDITR-ND	81.00/M
10	.05	—	DDZ9697DICT-ND	2.81	19.80	90.00	DDZ9697DITR-ND	81.00/M
12	.05	—	DDZ9699DICT-ND	2.81	19.80	90.00	DDZ9699DITR-ND	81.00/M
12	10	12	DDZ12CDICT-ND	2.81	19.80	90.00	DDZ12CDITR-ND	81.00/M
13	10	14	DDZ13BDICT-ND	2.81	19.80	90.00	DDZ13BDITR-ND	81.00/M
15	.05	—	DDZ9702DICT-ND	2.81	19.80	90.00	DDZ9702DITR-ND	81.00/M
18	.05	—	DDZ9705DICT-ND	2.81	19.80	90.00	DDZ9705DITR-ND	81.00/M
18	10	23	DDZ18CDICT-ND	2.81	19.80	90.00	DDZ18CDITR-ND	81.00/M
20	.05	—	DDZ9707DICT-ND	2.81	19.80	90.00	DDZ9707DITR-ND	81.00/M
20	10	28	DDZ20CDICT-ND	2.81	19.80	90.00	DDZ20CDITR-ND	81.00/M
24	.05	—	DDZ9709DICT-ND	2.81	19.80	90.00	DDZ9709DITR-ND	81.00/M
24	5	35	DDZ24CDICT-ND	2.81	19.80	90.00	DDZ24CDITR-ND	81.00/M
27	.05	—	DDZ9711DICT-ND	2.81	19.80	90.00	DDZ9711DITR-ND	81.00/M

† Tape and Reel size is 10,000. ◊ ***RoHS Compliant***

SOD-323 Surface Mount Zener Diodes — 200mW

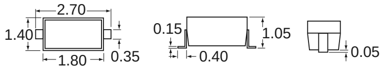

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
BZT Series								
2.4	5	100	BZT52C2V4S-FDICT-ND◊	.47	3.44	24.20	BZT52C2V4S-FDITR-ND◊	99.00/M
2.7	5	100	BZT52C2V7SDICT-ND	.47	3.44	24.20	BZT52C2V7SDITR-ND	99.00/M
3.0	5	95	BZT52C3V0SDICT-ND	.47	3.44	24.20	BZT52C3V0SDITR-ND	99.00/M
3.0	5	95	BZT52C3V0S-FDICT-ND◊	.47	3.44	24.20	BZT52C3V0S-FDITR-ND◊	99.00/M
3.3	5	95	BZT52C3V3SDICT-ND	.47	3.44	24.20	BZT52C3V3SDITR-ND	99.00/M
3.3	5	95	BZT52C3V3S-FDICT-ND◊	.47	3.44	24.20	BZT52C3V3S-FDITR-ND◊	99.00/M
3.6	5	90	BZT52C3V6SDICT-ND	.47	3.44	24.20	BZT52C3V6SDITR-ND	99.00/M
3.6	5	90	BZT52C3V6S-FDICT-ND◊	.47	3.44	24.20	BZT52C3V6S-FDITR-ND◊	99.00/M
3.9	5	90	BZT52C3V9SDICT-ND	.47	3.44	24.20	BZT52C3V9SDITR-ND	99.00/M
3.9	5	90	BZT52C3V9S-FDICT-ND◊	.47	3.44	24.20	BZT52C3V9S-FDITR-ND◊	99.00/M
4.3	5	90	BZT52C4V3S-FDICT-ND◊	.47	3.44	24.20	BZT52C4V3S-FDITR-ND◊	99.00/M
4.7	5	80	BZT52C4V7S-FDICT-ND◊	.47	3.44	24.20	BZT52C4V7S-FDITR-ND◊	99.00/M
5.1	5	60	BZT52C5V1S-FDICT-ND◊	.47	3.44	24.20	BZT52C5V1S-FDITR-ND◊	99.00/M
5.6	5	40	BZT52C5V6S-FDICT-ND◊	.47	3.44	24.20	BZT52C5V6S-FDITR-ND◊	99.00/M
6.2	5	10	BZT52C6V2SDICT-ND	.47	3.44	24.20	BZT52C6V2SDITR-ND	99.00/M
6.2	5	10	BZT52C6V2S-FDICT-ND◊	.47	3.44	24.20	BZT52C6V2S-FDITR-ND◊	99.00/M
6.8	5	15	BZT52C6V8S-FDICT-ND◊	.47	3.44	24.20	BZT52C6V8S-FDITR-ND◊	99.00/M
7.5	5	15	BZT52C7V5SDICT-ND	.47	3.44	24.20	BZT52C7V5SDITR-ND	99.00/M
7.5	5	15	BZT52C7V5S-FDICT-ND◊	.47	3.44	24.20	BZT52C7V5S-FDITR-ND◊	99.00/M
8.2	5	15	BZT52C8V2SDICT-ND	.47	3.44	24.20	—	—
8.2	5	15	BZT52C8V2S-FDICT-ND◊	.47	3.44	24.20	BZT52C8V2S-FDITR-ND◊	99.00/M
9.1	5	15	BZT52C9V1SDICT-ND	.47	3.44	24.20	BZT52C9V1SDITR-ND	99.00/M
9.1	5	15	BZT52C9V1S-FDICT-ND◊	.47	3.44	24.20	BZT52C9V1S-FDITR-ND◊	99.00/M
10	5	20	BZT52C10SDICT-ND	.47	3.44	24.20	BZT52C10SDITR-ND	99.00/M
10	5	20	BZT52C10S-FDICT-ND◊	.47	3.44	24.20	BZT52C10S-FDITR-ND◊	99.00/M
11	5	20	BZT52C11SDICT-ND	.47	3.44	24.20	BZT52C11SDITR-ND	99.00/M
11	5	20	BZT52C11S-FDICT-ND◊	.47	3.44	24.20	BZT52C11S-FDITR-ND◊	99.00/M
12	5	25	BZT52C12S-FDICT-ND◊	.47	3.44	24.20	BZT52C12S-FDITR-ND◊	99.00/M
13	5	30	BZT52C13SDICT-ND	.47	3.44	24.20	BZT52C13SDITR-ND	99.00/M
13	5	30	BZT52C13S-FDICT-ND◊	.47	3.44	24.20	BZT52C13S-FDITR-ND◊	99.00/M
15	5	30	BZT52C15SDICT-ND	.47	3.44	24.20	BZT52C15SDITR-ND	99.00/M
15	5	30	BZT52C15S-FDICT-ND◊	.47	3.44	24.20	BZT52C15S-FDITR-ND◊	99.00/M
16	5	40	BZT52C16S-FDICT-ND◊	.47	3.44	24.20	BZT52C16S-FDITR-ND◊	99.00/M
18	5	45	BZT52C18SDICT-ND	.47	3.44	24.20	BZT52C18SDITR-ND	99.00/M
18	5	45	BZT52C18S-FDICT-ND◊	.47	3.44	24.20	BZT52C18S-FDITR-ND◊	99.00/M
20	5	55	BZT52C20SDICT-ND	.47	3.44	24.20	—	—
20	5	55	BZT52C20S-FDICT-ND◊	.47	3.44	24.20	BZT52C20S-FDITR-ND◊	99.00/M
22	5	55	BZT52C22S-FDICT-ND◊	.47	3.44	24.20	BZT52C22S-FDITR-ND◊	99.00/M
24	5	70	BZT52C24SDICT-ND	.47	3.44	24.20	—	—
24	5	70	BZT52C24S-FDICT-ND◊	.47	3.44	24.20	BZT52C24S-FDITR-ND◊	99.00/M
27	2	80	BZT52C27SDICT-ND	.47	3.44	24.20	BZT52C27SDITR-ND	99.00/M
27	2	80	BZT52C27S-FDICT-ND◊	.47	3.44	24.20	BZT52C27S-FDITR-ND◊	99.00/M
30	2	80	BZT52C30SDICT-ND	.47	3.44	24.20	BZT52C30SDITR-ND	99.00/M
30	2	80	BZT52C30S-FDICT-ND◊	.47	3.44	24.20	BZT52C30S-FDITR-ND◊	99.00/M
33	2	80	BZT52C33S-FDICT-ND◊	.47	3.44	24.20	BZT52C33S-FDITR-ND◊	99.00/M
36	2	90	BZT52C36SDICT-ND	.47	3.44	24.20	BZT52C36SDITR-ND	99.00/M
36	2	90	BZT52C36S-FDICT-ND◊	.47	3.44	24.20	BZT52C36S-FDITR-ND◊	99.00/M
39	2	130	BZT52C39SDICT-ND	.47	3.44	24.20	BZT52C39SDITR-ND	99.00/M
39	2	130	BZT52C39S-FDICT-ND◊	.47	3.44	24.20	BZT52C39S-FDITR-ND◊	99.00/M
51	5	100	BZT52C51SDICT-ND◊	.39	3.00	21.60	BZT52C51SDITR-ND◊	86.00/M
MMSZ Series								
2.4	20	30	MMSZ5221BSDICT-ND	.47	3.44	24.20	MMSZ5221BSDITR-ND	99.00/M
2.4	20	30	MMSZ5221BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5221BS-FDITR-ND◊	99.00/M
2.7	20	30	MMSZ5223BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5223BS-FDITR-ND◊	99.00/M
3.0	20	30	MMSZ5225BSDICT-ND	.47	3.44	24.20	MMSZ5225BSDITR-ND	99.00/M
3.0	20	30	MMSZ5225BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5225BS-FDITR-ND◊	99.00/M
3.3	20	28	MMSZ5226BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5226BS-FDITR-ND◊	99.00/M
3.6	20	24	MMSZ5227BSDICT-ND	.47	3.44	24.20	—	—
3.6	20	24	MMSZ5227BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5227BS-FDITR-ND◊	99.00/M
3.9	20	23	MMSZ5228BSDICT-ND	.47	3.44	24.20	—	—
3.9	20	23	MMSZ5228BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5228BS-FDITR-ND◊	99.00/M

◊ ***RoHS Compliant***

(Continued)

DIODES Zener Diodes *(Cont.)*

SOD-323 Surface Mount Zener Diodes — 200mW *(Cont.)*

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
4.3	20	22	MMSZ5229BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5229BS-FDITR-ND◊	99.00/M
4.7	20	19	MMSZ5230BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5230BS-FDITR-ND◊	99.00/M
5.1	20	17	MMSZ5231BSDICT-ND	.47	3.44	24.20	—	—
5.1	20	17	MMSZ5231BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5231BS-FDITR-ND◊	99.00/M
5.6	20	11	MMSZ5232BSDICT-ND	.47	3.44	24.20	MMSZ5232BSDITR-ND	99.00/M
5.6	20	11	MMSZ5232BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5232BS-FDITR-ND◊	99.00/M
6.0	20	7	MMSZ5233BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5233BS-FDITR-ND◊	99.00/M
6.2	20	7	MMSZ5234BSDICT-ND	.47	3.44	24.20	MMSZ5234BSDITR-ND	99.00/M
6.2	20	7	MMSZ5234BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5234BS-FDITR-ND◊	99.00/M
6.8	20	5	MMSZ5235BSDICT-ND	.47	3.44	24.20	—	—
6.8	20	5	MMSZ5235BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5235BS-FDITR-ND◊	99.00/M
7.5	20	6	MMSZ5236BSDICT-ND	.47	3.44	24.20	MMSZ5236BSDITR-ND	99.00/M
7.5	20	6	MMSZ5236BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5236BS-FDITR-ND◊	99.00/M
8.2	20	8	MMSZ5237BSDICT-ND	.47	3.44	24.20	—	—
8.2	20	8	MMSZ5237BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5237BS-FDITR-ND◊	99.00/M
8.7	20	8	MMSZ5238BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5238BS-FDITR-ND◊	99.00/M
9.1	20	10	MMSZ5239BSDICT-ND	.47	3.44	24.20	MMSZ5239BSDITR-ND	99.00/M
9.1	20	10	MMSZ5239BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5239BS-FDITR-ND◊	99.00/M
10	20	17	MMSZ5240BSDICT-ND	.47	3.44	24.20	—	—
10	20	17	MMSZ5240BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5240BS-FDITR-ND◊	99.00/M
11	20	22	MMSZ5241BSDICT-ND	.47	3.44	24.20	MMSZ5241BSDITR-ND	99.00/M
11	20	22	MMSZ5241BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5241BS-FDITR-ND◊	99.00/M
12	20	30	MMSZ5242BSDICT-ND	.47	3.44	24.20	MMSZ5242BSDITR-ND	99.00/M
12	20	30	MMSZ5242BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5242BS-FDITR-ND◊	99.00/M
13	9.5	13	MMSZ5243BSDICT-ND	.47	3.44	24.20	MMSZ5243BSDITR-ND	99.00/M
13	9.5	13	MMSZ5243BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5243BS-FDITR-ND◊	99.00/M
15	8.5	16	MMSZ5245BSDICT-ND	.47	3.44	24.20	MMSZ5245BSDITR-ND	99.00/M
15	8.5	16	MMSZ5245BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5245BS-FDITR-ND◊	99.00/M
16	7.8	17	MMSZ5246BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5246BS-FDITR-ND◊	99.00/M
18	7.0	21	MMSZ5248BSDICT-ND	.47	3.44	24.20	MMSZ5248BSDITR-ND	99.00/M
18	7.0	21	MMSZ5248BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5248BS-FDITR-ND◊	99.00/M
20	6.2	25	MMSZ5250BSDICT-ND	.47	3.44	24.20	—	—
20	6.2	25	MMSZ5250BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5250BS-FDITR-ND◊	99.00/M
22	5.6	29	MMSZ5251BSDICT-ND	.47	3.44	24.20	MMSZ5251BSDITR-ND	99.00/M
22	5.6	29	MMSZ5251BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5251BS-FDITR-ND◊	99.00/M
24	5.2	33	MMSZ5252BSDICT-ND	.47	3.44	24.20	—	—
24	5.2	33	MMSZ5252BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5252BS-FDITR-ND◊	99.00/M
27	5.0	41	MMSZ5254BSDICT-ND	.47	3.44	24.20	—	—
27	5.0	41	MMSZ5254BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5254BS-FDITR-ND◊	99.00/M
28	4.5	44	MMSZ5255BSDICT-ND	.47	3.44	24.20	—	—
28	4.5	44	MMSZ5255BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5255BS-FDITR-ND◊	99.00/M
30	4.2	49	MMSZ5256BSDICT-ND	.47	3.44	24.20	—	—
30	4.2	49	MMSZ5256BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5256BS-FDITR-ND◊	99.00/M
33	3.8	58	MMSZ5257BSDICT-ND	.47	3.44	24.20	—	—
33	3.8	58	MMSZ5257BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5257BS-FDITR-ND◊	99.00/M
36	3.4	70	MMSZ5258BSDICT-ND	.47	3.44	24.20	—	—
36	3.4	70	MMSZ5258BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5258BS-FDITR-ND◊	99.00/M
39	3.2	80	MMSZ5259BSDICT-ND	.47	3.44	24.20	—	—
39	3.2	80	MMSZ5259BS-FDICT-ND◊	.47	3.44	24.20	MMSZ5259BS-FDITR-ND◊	99.00/M
DDZ Series								
5.6	20	11	DDZ5V6BSDICT-ND	.47	3.44	24.20	DDZ5V6BSDITR-ND	99.00/M
6.8	.05	—	DDZ9692SDICT-ND	.47	3.44	24.20	DDZ9692SDITR-ND	99.00/M
6.8	20	5	DDZ6V8CSDICT-ND	.47	3.44	24.20	DDZ6V8CSDITR-ND	99.00/M
7.5	.05	—	DDZ9693SDICT-ND	.47	3.44	24.20	DDZ9693SDITR-ND	99.00/M
7.5	20	6	DDZ7V5CSDICT-ND	.47	3.44	24.20	DDZ7V5CSDITR-ND	99.00/M
8.2	.05	—	DDZ9694SDICT-ND	.47	3.44	24.20	DDZ9694SDITR-ND	99.00/M
9.1	20	8	DDZ9V1CSDICT-ND	.47	3.44	24.20	DDZ9V1CSDITR-ND	99.00/M
10	.05	—	DDZ9697SDICT-ND	.47	3.44	24.20	DDZ9697SDITR-ND	99.00/M
12	.05	—	DDZ9699SDICT-ND	.47	3.44	24.20	DDZ9699SDITR-ND	99.00/M
13	10	14	DDZ13BSDICT-ND	.47	3.44	24.20	DDZ13BSDITR-ND	99.00/M
15	.05	—	DDZ9702SDICT-ND	.47	3.44	24.20	DDZ9702SDITR-ND	99.00/M
18	.05	—	DDZ9705SDICT-ND	.47	3.44	24.20	DDZ9705SDITR-ND	99.00/M
18	10	23	DDZ18CSDICT-ND	.47	3.44	24.20	DDZ18CSDITR-ND	99.00/M
20	.05	—	DDZ9707SDICT-ND	.47	3.44	24.20	DDZ9707SDITR-ND	99.00/M
20	10	28	DDZ20CSDICT-ND	.47	3.44	24.20	DDZ20CSDITR-ND	99.00/M
24	.05	—	DDZ9709SDICT-ND	.47	3.44	24.20	DDZ9709SDITR-ND	99.00/M
24	5	35	DDZ24CSDICT-ND	.47	3.44	24.20	DDZ24CSDITR-ND	99.00/M
27	.05	—	DDZ9711SDICT-ND	.47	3.44	24.20	DDZ9711SDITR-ND	99.00/M

◊ ***RoHS Compliant***

SOD-523 Surface Mount Zener Diodes — 150mW

RoHS COMPLIANT

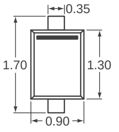

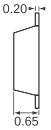

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5.6	5	40	BZT52C5V6TDICT-ND	.41	3.00	21.12	BZT52C5V6TDITR-ND	86.00/M
6.8	5	15	BZT52C6V8TDICT-ND	.41	3.00	21.12	BZT52C6V8TDITR-ND	86.00/M
9.1	5	15	BZT52C9V1TDICT-ND	.31	2.40	17.28	BZT52C9V1TDITR-ND	82.00/M
13	5	30	BZT52C13TDICT-ND	.41	3.00	21.12	BZT52C13TDITR-ND	86.00/M
15	5	30	BZT52C15TDICT-ND	.41	3.00	21.12	BZT52C15TDITR-ND	86.00/M
16	5	40	BZT52C16TDICT-ND	.41	3.00	21.12	BZT52C16TDITR-ND	86.00/M
24	5	70	BZT52C24TDICT-ND	.41	3.00	21.12	BZT52C24TDITR-ND	86.00/M

DFN1006-2 Surface Mount Zener Diodes — 250mW

RoHS COMPLIANT

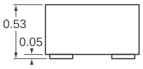

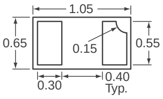

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5.6	5	40	BZT52C5V6LPDICT-ND	.46	3.38	23.76	BZT52C5V6LPDITR-ND	97.00/M
6.2	5	10	BZT52C6V2LPDICT-ND	.46	3.38	23.76	BZT52C6V2LPDITR-ND	97.00/M
6.8	5	15	BZT52C6V8LPDICT-ND	.46	3.38	23.76	BZT52C6V8LPDITR-ND	97.00/M
7.5	5	15	BZT52C7V5LPDICT-ND	.46	3.38	23.76	BZT52C7V5LPDITR-ND	97.00/M
8.2	5	15	BZT52C8V2LPDICT-ND	.46	3.38	23.76	BZT52C8V2LPDITR-ND	97.00/M
9.1	5	15	BZT52C9V1LPDICT-ND	.46	3.38	23.76	BZT52C9V1LPDITR-ND	97.00/M
10	5	20	BZT52C10LPDICT-ND	.46	3.38	23.76	BZT52C10LPDITR-ND	97.00/M
11	5	20	BZT52C11LPDICT-ND	.46	3.38	23.76	BZT52C11LPDITR-ND	97.00/M
13	5	30	BZT52C13LPDICT-ND	.46	3.38	23.76	BZT52C13LPDITR-ND	97.00/M

MELF (DL-41) Surface Mount Zener Diodes — 1W

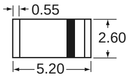

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 5,000
4.3	58	9.0	ZM4731ADICT-ND	4.00	28.80	84.00	ZM4731ADITR-ND	128.00/M
4.7	53	8.0	ZM4732ADICT-ND	4.00	28.80	84.00	ZM4732ADITR-ND	128.00/M
39	6.5	60	ZM4754ADICT-ND	4.00	28.80	84.00	—	—
43	6.0	70	ZM4755ADICT-ND	4.00	28.80	84.00	—	—

MiniMELF (DL-35) Surface Mount Zener Diodes — 500mW

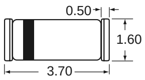

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 2,500
3.0	20	29	ZMM5225BDICT-ND	2.48	17.16	75.90	ZMM5225BDITR-ND	66.00/M
3.3	20	28	ZMM5226BDICT-ND	2.48	17.16	75.90	ZMM5226BDITR-ND	66.00/M
3.6	20	24	ZMM5227BDICT-ND	2.48	17.16	75.90	ZMM5227BDITR-ND	66.00/M
3.9	20	23	ZMM5228BDICT-ND	2.48	17.16	75.90	ZMM5228BDITR-ND	66.00/M
4.3	20	22	ZMM5229BDICT-ND	2.48	17.16	75.90	ZMM5229BDITR-ND	66.00/M
4.7	20	19	ZMM5230BDICT-ND	2.48	17.16	75.90	ZMM5230BDITR-ND	66.00/M
5.1	20	17	ZMM5231BDICT-ND	2.48	17.16	75.90	ZMM5231BDITR-ND	66.00/M
5.6	20	11	ZMM5232BDICT-ND	2.48	17.16	75.90	ZMM5232BDITR-ND	66.00/M
6.0	20	7	ZMM5233BDICT-ND	2.48	17.16	75.90	ZMM5233BDITR-ND	66.00/M
6.2	20	7	ZMM5234BDICT-ND	2.48	17.16	75.90	ZMM5234BDITR-ND	66.00/M
6.8	20	5	ZMM5235BDICT-ND	2.48	17.16	75.90	ZMM5235BDITR-ND	66.00/M
7.5	20	6	ZMM5236BDICT-ND	2.48	17.16	75.90	ZMM5236BDITR-ND	66.00/M
8.2	20	8	ZMM5237BDICT-ND	2.48	17.16	75.90	ZMM5237BDITR-ND	66.00/M
8.7	20	8	ZMM5238BDICT-ND	2.48	17.16	75.90	ZMM5238BDITR-ND	66.00/M
9.1	20	10	ZMM5239BDICT-ND	2.48	17.16	75.90	ZMM5239BDITR-ND	66.00/M
10	20	17	ZMM5240BDICT-ND	2.48	17.16	75.90	ZMM5240BDITR-ND	66.00/M
11	20	22	ZMM5241BDICT-ND	2.48	17.16	75.90	ZMM5241BDITR-ND	66.00/M
12	20	30	ZMM5242BDICT-ND	2.48	17.16	75.90	ZMM5242BDITR-ND	66.00/M
13	9.5	13	ZMM5243BDICT-ND	2.48	17.16	75.90	ZMM5243BDITR-ND	66.00/M
14	9.0	15	ZMM5244BDICT-ND	2.48	17.16	75.90	ZMM5244BDITR-ND	66.00/M
15	8.5	16	ZMM5245BDICT-ND	2.48	17.16	75.90	ZMM5245BDITR-ND	66.00/M
16	7.8	17	ZMM5246BDICT-ND	2.48	17.16	75.90	ZMM5246BDITR-ND	66.00/M
17	7.4	19	ZMM5247BDICT-ND	2.48	17.16	75.90	ZMM5247BDITR-ND	66.00/M
18	7.0	21	ZMM5248BDICT-ND	2.48	17.16	75.90	ZMM5248BDITR-ND	66.00/M
19	6.6	23	ZMM5249BDICT-ND	2.48	17.16	75.90	ZMM5249BDITR-ND	66.00/M
20	6.2	25	ZMM5250BDICT-ND	2.48	17.16	75.90	ZMM5250BDITR-ND	66.00/M
22	5.6	29	ZMM5251BDICT-ND	2.48	17.16	75.90	ZMM5251BDITR-ND	66.00/M
24	5.2	33	ZMM5252BDICT-ND	2.48	17.16	75.90	ZMM5252BDITR-ND	66.00/M
25	5.0	35	ZMM5253BDICT-ND	2.48	17.16	75.90	ZMM5253BDITR-ND	66.00/M
27	4.6	41	ZMM5254BDICT-ND	2.48	17.16	75.90	ZMM5254BDITR-ND	66.00/M
28	4.5	44	ZMM5255BDICT-ND	2.48	17.16	75.90	ZMM5255BDITR-ND	66.00/M
30	4.2	49	ZMM5256BDICT-ND	2.48	17.16	75.90	ZMM5256BDITR-ND	66.00/M
33	3.8	58	ZMM5257BDICT-ND	2.48	17.16	75.90	ZMM5257BDITR-ND	66.00/M
36	3.4	70	ZMM5258BDICT-ND	2.48	17.16	75.90	ZMM5258BDITR-ND	66.00/M
39	3.2	80	ZMM5259BDICT-ND	2.48	17.16	75.90	ZMM5259BDITR-ND	66.00/M
43	3.0	93	ZMM5260BDICT-ND	2.48	17.16	75.90	ZMM5260BDITR-ND	66.00/M
47	2.7	105	ZMM5261BDICT-ND	2.48	17.16	75.90	ZMM5261BDITR-ND	66.00/M
51	2.5	125	ZMM5262BDICT-ND	2.48	17.16	75.90	ZMM5262BDITR-ND	66.00/M
62	2.0	185	ZMM5265BDICT-ND	2.48	17.16	75.90	ZMM5265BDITR-ND	66.00/M
68	1.8	230	ZMM5266BDICT-ND	2.48	17.16	75.90	ZMM5266BDITR-ND	66.00/M

(Continued)

SOT-23 Surface Mount Zener Diodes — 300mW

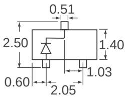

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5.6	20	11	DDZX5V6BDICT-ND	.44	3.00	20.80	DDZX5V6BDITR-ND	80.00/M
6.2	20	7	DDZX6V2BDICT-ND	.44	3.00	20.80	DDZX6V2BDITR-ND	80.00/M
6.8	20	5	DDZX6V8CDICT-ND	.44	3.00	20.80	DDZX6V8CDITR-ND	80.00/M
7.5	20	6	DDZX7V5CDICT-ND	.44	3.00	20.80	DDZX7V5CDITR-ND	80.00/M
9.1	20	8	DDZX9V1CDICT-ND	.44	3.00	20.80	DDZX9V1CDITR-ND	80.00/M
12	10	12	DDZX12CDICT-ND	.44	3.00	20.80	DDZX12CDITR-ND	80.00/M
13	10	14	DDZX13BDICT-ND	.44	3.00	20.80	DDZX13BDITR-ND	80.00/M
18	10	23	DDZX18CDICT-ND	.44	3.00	20.80	DDZX18CDITR-ND	80.00/M
20	10	28	DDZX20CDICT-ND	.44	3.00	20.80	DDZX20CDITR-ND	80.00/M
24	5	35	DDZX24CDICT-ND	.44	3.00	20.80	DDZX24CDITR-ND	80.00/M

SOT-23 Dual Surface Mount Zener Diodes — 300mW

Common Anode

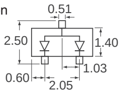

Common Cathode

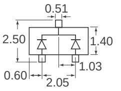

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
			Common Anode					
2.7	5.0	83	AZ23C2V7-FDICT-ND◊	.50	4.00	30.00	AZ23C2V7-FDITR-ND◊	150.00/M
3.0	5.0	95	AZ23C3V0DICT-ND	.50	4.00	30.00	AZ23C3V0DITR-ND	150.00/M
3.0	5.0	95	AZ23C3V0-FDICT-ND◊	.50	4.00	30.00	AZ23C3V0-FDITR-ND◊	150.00/M
3.3	5.0	95	AZ23C3V3-FDICT-ND◊	.50	4.00	30.00	AZ23C3V3-FDITR-ND◊	150.00/M
3.6	5.0	95	AZ23C3V6-FDICT-ND◊	.50	4.00	30.00	AZ23C3V6-FDITR-ND◊	150.00/M
3.9	5.0	95	AZ23C3V9DICT-ND	.50	4.00	30.00	AZ23C3V9DITR-ND	150.00/M
3.9	5.0	95	AZ23C3V9-FDICT-ND◊	.50	4.00	30.00	AZ23C3V9-FDITR-ND◊	150.00/M
4.3	5.0	95	AZ23C4V3-FDICT-ND◊	.50	4.00	30.00	AZ23C4V3-FDITR-ND◊	150.00/M
4.7	5.0	78	AZ23C4V7DICT-ND	.50	4.00	30.00	AZ23C4V7DITR-ND	150.00/M
4.7	5.0	78	AZ23C4V7-FDICT-ND◊	.50	4.00	30.00	AZ23C4V7-FDITR-ND◊	150.00/M
5.1	5.0	60	AZ23C5V1DICT-ND	.50	4.00	30.00	—	—
5.1	5.0	60	AZ23C5V1-FDICT-ND◊	.50	4.00	30.00	AZ23C5V1-FDITR-ND◊	150.00/M
5.6	5.0	40	AZ23C5V6-FDICT-ND◊	.50	4.00	30.00	AZ23C5V6-FDITR-ND◊	150.00/M
6.2	5.0	10	AZ23C6V2DICT-ND	.50	4.00	30.00	AZ23C6V2DITR-ND	150.00/M
6.2	5.0	10	AZ23C6V2-FDICT-ND◊	.50	4.00	30.00	AZ23C6V2-FDITR-ND◊	150.00/M
6.8	5.0	8.0	AZ23C6V8-FDICT-ND◊	.50	4.00	30.00	AZ23C6V8-FDITR-ND◊	150.00/M
7.5	5.0	7.0	AZ23C7V5-FDICT-ND◊	.50	4.00	30.00	AZ23C7V5-FDITR-ND◊	150.00/M
8.2	5.0	7.0	AZ23C8V2-FDICT-ND◊	.50	4.00	30.00	AZ23C8V2-FDITR-ND◊	150.00/M
9.1	5.0	10	AZ23C9V1-FDICT-ND◊	.50	4.00	30.00	AZ23C9V1-FDITR-ND◊	150.00/M
10	5.0	15	AZ23C10-FDICT-ND◊	.50	4.00	30.00	AZ23C10-FDITR-ND◊	150.00/M
11	5.0	20	AZ23C11DICT-ND	.50	4.00	30.00	AZ23C11DITR-ND	150.00/M
11	5.0	20	AZ23C11-FDICT-ND◊	.50	4.00	30.00	AZ23C11-FDITR-ND◊	150.00/M
12	5.0	20	AZ23C12DICT-ND	.50	4.00	30.00	AZ23C12DITR-ND	150.00/M
12	5.0	20	AZ23C12-FDICT-ND◊	.50	4.00	30.00	AZ23C12-FDITR-ND◊	150.00/M
13	5.0	25	AZ23C13-FDICT-ND◊	.50	4.00	30.00	AZ23C13-FDITR-ND◊	150.00/M
15	5.0	30	AZ23C15-FDICT-ND◊	.50	4.00	30.00	AZ23C15-FDITR-ND◊	150.00/M
16	5.0	40	AZ23C16DICT-ND	.50	4.00	30.00	AZ23C16DITR-ND	150.00/M
16	5.0	40	AZ23C16-FDICT-ND◊	.50	4.00	30.00	AZ23C16-FDITR-ND◊	150.00/M
18	5.0	50	AZ23C18DICT-ND	.50	4.00	30.00	—	—
18	5.0	50	AZ23C18-FDICT-ND◊	.50	4.00	30.00	AZ23C18-FDITR-ND◊	150.00/M
20	5.0	50	AZ23C20-FDICT-ND◊	.50	4.00	30.00	AZ23C20-FDITR-ND◊	150.00/M
22	5.0	55	AZ23C22-FDICT-ND◊	.50	4.00	30.00	AZ23C22-FDITR-ND◊	150.00/M
24	5.0	80	AZ23C24-FDICT-ND◊	.50	4.00	30.00	AZ23C24-FDITR-ND◊	150.00/M
27	5.0	80	AZ23C27DICT-ND	.50	4.00	30.00	AZ23C27DITR-ND	150.00/M
27	5.0	80	AZ23C27-FDICT-ND◊	.50	4.00	30.00	AZ23C27-FDITR-ND◊	150.00/M
30	5.0	80	AZ23C30-FDICT-ND◊	.50	4.00	30.00	AZ23C30-FDITR-ND◊	150.00/M
33	5.0	80	AZ23C33-FDICT-ND◊	.50	4.00	30.00	AZ23C33-FDITR-ND◊	150.00/M
36	5.0	90	AZ23C36DICT-ND	.50	4.00	30.00	AZ23C36DITR-ND	150.00/M
36	5.0	90	AZ23C36-FDICT-ND◊	.50	4.00	30.00	AZ23C36-FDITR-ND◊	150.00/M
39	5.0	90	AZ23C39-FDICT-ND◊	.50	4.00	30.00	AZ23C39-FDITR-ND◊	150.00/M
43	5.0	100	AZ23C43-FDICT-ND◊	.50	4.00	30.00	AZ23C43-FDITR-ND◊	150.00/M
47	5.0	100	AZ23C47-FDICT-ND◊	.50	4.00	30.00	AZ23C47-FDITR-ND◊	150.00/M
51	5.0	100	AZ23C51DICT-ND	.50	4.00	30.00	AZ23C51DITR-ND	150.00/M
51	5.0	100	AZ23C51-FDICT-ND◊	.50	4.00	30.00	AZ23C51-FDITR-ND◊	150.00/M
			Common Cathode					
2.7	5.0	83	DZ23C2V7-FDICT-ND◊	.45	3.60	27.00	DZ23C2V7-FDITR-ND◊	135.00/M
3.0	5.0	95	DZ23C3V0DICT-ND	.45	3.60	27.00	DZ23C3V0DITR-ND	135.00/M
3.0	5.0	95	DZ23C3V0-FDICT-ND◊	.45	3.60	27.00	DZ23C3V0-FDITR-ND◊	135.00/M
3.3	5.0	95	DZ23C3V3DICT-ND	.45	3.60	27.00	DZ23C3V3DITR-ND	135.00/M
3.3	5.0	95	DZ23C3V3-FDICT-ND◊	.45	3.60	27.00	DZ23C3V3-FDITR-ND◊	135.00/M
3.6	5.0	95	DZ23C3V6DICT-ND	.45	3.60	27.00	DZ23C3V6DITR-ND	135.00/M
3.6	5.0	95	DZ23C3V6-FDICT-ND◊	.45	3.60	27.00	DZ23C3V6-FDITR-ND◊	135.00/M
3.9	5.0	95	DZ23C3V9DICT-ND	.45	3.60	27.00	DZ23C3V9DITR-ND	135.00/M
3.9	5.0	95	DZ23C3V9-FDICT-ND◊	.45	3.60	27.00	DZ23C3V9-FDITR-ND◊	135.00/M
4.3	5.0	95	DZ23C4V3DICT-ND	.45	3.60	27.00	DZ23C4V3DITR-ND	135.00/M
4.3	5.0	95	DZ23C4V3-FDICT-ND◊	.45	3.60	27.00	DZ23C4V3-FDITR-ND◊	135.00/M
4.7	5.0	78	DZ23C4V7-FDICT-ND◊	.45	3.60	27.00	DZ23C4V7-FDITR-ND◊	135.00/M
5.1	5.0	60	DZ23C5V1DICT-ND	.45	3.60	27.00	DZ23C5V1DITR-ND	135.00/M
5.1	5.0	60	DZ23C5V1-FDICT-ND◊	.45	3.60	27.00	DZ23C5V1-FDITR-ND◊	135.00/M
5.6	5.0	40	DZ23C5V6DICT-ND	.45	3.60	27.00	DZ23C5V6DITR-ND	135.00/M
5.6	5.0	40	DZ23C5V6-FDICT-ND◊	.45	3.60	27.00	DZ23C5V6-FDITR-ND◊	135.00/M
6.2	5.0	10	DZ23C6V2DICT-ND	.45	3.60	27.00	DZ23C6V2DITR-ND	135.00/M
6.2	5.0	10	DZ23C6V2-FDICT-ND◊	.45	3.60	27.00	DZ23C6V2-FDITR-ND◊	135.00/M
6.8	5.0	8.0	DZ23C6V8DICT-ND	.45	3.60	27.00	DZ23C6V8DITR-ND	135.00/M
6.8	5.0	8.0	DZ23C6V8-FDICT-ND◊	.45	3.60	27.00	DZ23C6V8-FDITR-ND◊	135.00/M
7.5	5.0	7.0	DZ23C7V5-FDICT-ND◊	.45	3.60	27.00	DZ23C7V5-FDITR-ND◊	135.00/M
8.2	5.0	7.0	DZ23C8V2DICT-ND	.45	3.60	27.00	DZ23C8V2DITR-ND	135.00/M
8.2	5.0	7.0	DZ23C8V2-FDICT-ND◊	.45	3.60	27.00	DZ23C8V2-FDITR-ND◊	135.00/M
9.1	5.0	10	DZ23C9V1DICT-ND	.45	3.60	27.00	DZ23C9V1DITR-ND	135.00/M
9.1	5.0	10	DZ23C9V1-FDICT-ND◊	.45	3.60	27.00	DZ23C9V1-FDITR-ND◊	135.00/M
10	5.0	15	DZ23C10-FDICT-ND◊	.45	3.60	27.00	DZ23C10-FDITR-ND◊	135.00/M
11	5.0	20	DZ23C11DICT-ND	.45	3.60	27.00	DZ23C11DITR-ND	135.00/M
11	5.0	20	DZ23C11-FDICT-ND◊	.45	3.60	27.00	DZ23C11-FDITR-ND◊	135.00/M
12	5.0	20	DZ23C12DICT-ND	.45	3.60	27.00	DZ23C12DITR-ND	135.00/M
12	5.0	20	DZ23C12-FDICT-ND◊	.45	3.60	27.00	DZ23C12-FDITR-ND◊	135.00/M
13	5.0	25	DZ23C13DICT-ND	.45	3.60	27.00	DZ23C13DITR-ND	135.00/M
13	5.0	25	DZ23C13-FDICT-ND◊	.45	3.60	27.00	DZ23C13-FDITR-ND◊	135.00/M
15	5.0	30	DZ23C15DICT-ND	.45	3.60	27.00	DZ23C15DITR-ND	135.00/M
15	5.0	30	DZ23C15-FDICT-ND◊	.45	3.60	27.00	DZ23C15-FDITR-ND◊	135.00/M
16	5.0	40	DZ23C16-FDICT-ND◊	.45	3.60	27.00	DZ23C16-FDITR-ND◊	135.00/M
18	5.0	50	DZ23C18-FDICT-ND◊	.45	3.60	27.00	DZ23C18-FDITR-ND◊	135.00/M
20	5.0	50	DZ23C20-FDICT-ND◊	.45	3.60	27.00	DZ23C20-FDITR-ND◊	135.00/M
22	5.0	55	DZ23C22DICT-ND	.45	3.60	27.00	DZ23C22DITR-ND	135.00/M
22	5.0	55	DZ23C22-FDICT-ND◊	.45	3.60	27.00	DZ23C22-FDITR-ND◊	135.00/M
24	5.0	80	DZ23C24-FDICT-ND◊	.45	3.60	27.00	DZ23C24-FDITR-ND◊	135.00/M
27	5.0	80	DZ23C27DICT-ND	.45	3.60	27.00	DZ23C27DITR-ND	135.00/M
27	5.0	80	DZ23C27-FDICT-ND◊	.45	3.60	27.00	DZ23C27-FDITR-ND◊	135.00/M
30	5.0	80	DZ23C30DICT-ND	.45	3.60	27.00	DZ23C30DITR-ND	135.00/M
30	5.0	80	DZ23C30-FDICT-ND◊	.45	3.60	27.00	DZ23C30-FDITR-ND◊	135.00/M
33	5.0	80	DZ23C33-FDICT-ND◊	.45	3.60	27.00	DZ23C33-FDITR-ND◊	135.00/M
36	5.0	90	DZ23C36DICT-ND	.45	3.60	27.00	DZ23C36DITR-ND	135.00/M
36	5.0	90	DZ23C36-FDICT-ND◊	.45	3.60	27.00	DZ23C36-FDITR-ND◊	135.00/M
39	5.0	90	DZ23C39-FDICT-ND◊	.45	3.60	27.00	DZ23C39-FDITR-ND◊	135.00/M
43	5.0	100	DZ23C43DICT-ND	.45	3.60	27.00	DZ23C43DITR-ND	135.00/M
43	5.0	100	DZ23C43-FDICT-ND◊	.45	3.60	27.00	DZ23C43-FDITR-ND◊	135.00/M
47	5.0	100	DZ23C47-FDICT-ND◊	.45	3.60	27.00	DZ23C47-FDITR-ND◊	135.00/M
51	5.0	100	DZ23C51-FDICT-ND◊	.45	3.60	27.00	DZ23C51-FDITR-ND◊	135.00/M

◊ ***RoHS Compliant***

SOT-23 Surface Mount Zener Diodes — 350mW

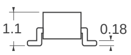

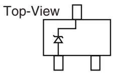

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
			BZX Series					
2.4	5.0	100	BZX84C2V4DICT-ND	.44	3.00	20.80	BZX84C2V4DITR-ND	80.00/M
2.4	5.0	100	BZX84C2V4-FDICT-ND◊	.44	3.00	20.80	BZX84C2V4-FDITR-ND◊	80.00/M
2.7	5.0	100	BZX84C2V7-FDICT-ND◊	.44	3.00	20.80	BZX84C2V7-FDITR-ND◊	80.00/M
3.0	5.0	95	BZX84C3V0DICT-ND	.44	3.00	20.80	BZX84C3V0DITR-ND	80.00/M
3.0	5.0	95	BZX84C3V0-FDICT-ND◊	.44	3.00	20.80	BZX84C3V0-FDITR-ND◊	80.00/M
3.3	5.0	95	BZX84C3V3-FDICT-ND•◊	.44	3.00	20.80	BZX84C3V3-FDITR-ND◊	80.00/M
3.6	5.0	90	BZX84C3V6DICT-ND	.44	3.00	20.80	BZX84C3V6DITR-ND	80.00/M
3.6	5.0	90	BZX84C3V6-FDICT-ND◊	.44	3.00	20.80	BZX84C3V6-FDITR-ND◊	80.00/M
3.9	5.0	90	BZX84C3V9-FDICT-ND•◊	.44	3.00	20.80	BZX84C3V9-FDITR-ND◊	80.00/M
4.3	5.0	90	BZX84C4V3DICT-ND	.44	3.00	20.80	BZX84C4V3DITR-ND	80.00/M
4.3	5.0	90	BZX84C4V3-FDICT-ND◊	.44	3.00	20.80	BZX84C4V3-FDITR-ND◊	80.00/M
4.7	5.0	80	BZX84C4V7DICT-ND	.44	3.00	20.80	BZX84C4V7DITR-ND	80.00/M
4.7	5.0	80	BZX84C4V7-FDICT-ND◊	.44	3.00	20.80	BZX84C4V7-FDITR-ND◊	80.00/M
5.1	5.0	60	BZX84C5V1DICT-ND•	.44	3.00	20.80	BZX84C5V1DITR-ND	80.00/M
5.1	5.0	60	BZX84C5V1-FDICT-ND◊	.39	2.63	18.20	BZX84C5V1-FDITR-ND◊	70.00/M
5.6	5.0	40	BZX84C5V6-FDICT-ND•◊	.44	3.00	20.80	BZX84C5V6-FDITR-ND◊	80.00/M
6.2	5.0	10	BZX84C6V2DICT-ND•	.44	3.00	20.80	—	—
6.2	5.0	10	BZX84C6V2-FDICT-ND◊	.44	3.00	20.80	BZX84C6V2-FDITR-ND◊	80.00/M
6.8	5.0	15	BZX84C6V8DICT-ND•	.44	3.00	20.80	BZX84C6V8DITR-ND	80.00/M
6.8	5.0	15	BZX84C6V8-FDICT-ND◊	.44	3.00	20.80	BZX84C6V8-FDITR-ND◊	80.00/M
7.5	5.0	15	BZX84C7V5-FDICT-ND◊	.44	3.00	20.80	BZX84C7V5-FDITR-ND◊	80.00/M
8.2	5.0	15	BZX84C8V2-FDICT-ND◊	.44	3.00	20.80	BZX84C8V2-FDITR-ND◊	80.00/M
9.1	5.0	15	BZX84C9V1DICT-ND•	.44	3.00	20.80	—	—
9.1	5.0	15	BZX84C9V1-FDICT-ND◊	.44	3.00	20.80	BZX84C9V1-FDITR-ND◊	80.00/M
10	5.0	20	BZX84C10DICT-ND•	.44	3.00	20.80	BZX84C10DITR-ND	80.00/M
10	5.0	20	BZX84C10-FDICT-ND◊	.44	3.00	20.80	BZX84C10-FDITR-ND◊	80.00/M
11	5.0	20	BZX84C11DICT-ND	.44	3.00	20.80	—	—
11	5.0	20	BZX84C11-FDICT-ND◊	.44	3.00	20.80	BZX84C11-FDITR-ND◊	80.00/M
12	5.0	25	BZX84C12-FDICT-ND•◊	.44	3.00	20.80	BZX84C12-FDITR-ND◊	80.00/M
13	5.0	30	BZX84C13-FDICT-ND◊	.44	3.00	20.80	BZX84C13-FDITR-ND◊	80.00/M
15	5.0	30	BZX84C15-FDICT-ND•◊	.39	2.63	18.20	BZX84C15-FDITR-ND◊	70.00/M
16	5.0	40	BZX84C16DICT-ND	.44	3.00	20.80	—	—
16	5.0	40	BZX84C16-FDICT-ND◊	.44	3.00	20.80	—	—

• **BZX2-KIT-ND** ***Digi-Key® SMD Zener Diodes Kit*** 10 each of values denoted (180 total pieces).................. **$23.79**

◊ ***RoHS Compliant***

(Continued)

Zener Diodes *(Cont.)*

SOT-23 Surface Mount Zener Diodes — 350mW *(Cont.)*

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				1	10	100		
18	5.0	45	BZX84C18-FDICT-ND•◊	.44	3.00	20.80	BZX84C18-FDITR-ND◊	80.00/M
20	5.0	55	BZX84C20-FDICT-ND•◊	.44	3.00	20.80	BZX84C20-FDITR-ND◊	80.00/M
22	5.0	55	BZX84C22DICT-ND	.44	3.00	20.80	—	`—
22	5.0	55	BZX84C22-FDICT-ND◊	.44	3.00	20.80	BZX84C22-FDITR-ND◊	80.00/M
24	5.0	70	BZX84C24DICT-ND•	.44	3.00	20.80	—	—
24	5.0	70	BZX84C24-FDICT-ND◊	.44	3.00	20.80	BZX84C24-FDITR-ND◊	80.00/M
27	2.0	80	BZX84C27DICT-ND	.44	3.00	20.80	BZX84C27DITR-ND	80.00/M
27	2.0	80	BZX84C27-FDICT-ND◊	.44	3.00	20.80	BZX84C27-FDITR-ND◊	80.00/M
30	2.0	80	BZX84C30DICT-ND•	.44	3.00	20.80	—	—
30	2.0	80	BZX84C30-FDICT-ND◊	.44	3.00	20.80	BZX84C30-FDITR-ND◊	80.00/M
33	2.0	80	BZX84C33DICT-ND•	.44	3.00	20.80	—	—
33	2.0	80	BZX84C33-FDICT-ND◊	.44	3.00	20.80	BZX84C33-FDITR-ND◊	80.00/M
36	2.0	90	BZX84C36-FDICT-ND•◊	.44	3.00	20.80	BZX84C36-FDITR-ND◊	80.00/M
39	2.0	130	BZX84C39DICT-ND•	.44	3.00	20.80	BZX84C39DITR-ND	80.00/M
39	2.0	130	BZX84C39-FDICT-ND◊	.44	3.00	20.80	BZX84C39-FDITR-ND◊	80.00/M
43	2.0	150	BZX84C43DICT-ND	.44	3.00	20.80	BZX84C43DITR-ND	80.00/M
43	2.0	150	BZX84C43-FDICT-ND◊	.44	3.00	20.80	BZX84C43-FDITR-ND◊	80.00/M
47	2.0	170	BZX84C47DICT-ND•	.44	3.00	20.80	BZX84C47DITR-ND	80.00/M
47	2.0	170	BZX84C47-FDICT-ND◊	.44	3.00	20.80	BZX84C47-FDITR-ND◊	80.00/M
51	2.0	180	BZX84C51-FDICT-ND◊	.44	3.00	20.80	BZX84C51-FDITR-ND◊	80.00/M
MMBZ Series								
2.4	20	30	MMBZ5221BDICT-ND	.44	3.00	20.80	MMBZ5221BDITR-ND	80.00/M
2.4	20	30	MMBZ5221B-FDICT-ND◊	.44	3.00	20.80	MMBZ5221B-FDITR-ND◊	80.00/M
2.7	20	30	MMBZ5223B-FDICT-ND◊	.44	3.00	20.80	MMBZ5223B-FDITR-ND◊	80.00/M
3.0	20	30	MMBZ5225B-FDICT-ND◊	.44	3.00	20.80	MMBZ5225B-FDITR-ND◊	80.00/M
3.3	20	28	MMBZ5226B-FDICT-ND◊	.44	3.00	20.80	MMBZ5226B-FDITR-ND◊	80.00/M
3.6	20	24	MMBZ5227BDICT-ND	.44	3.00	20.80	MMBZ5227BDITR-ND	80.00/M
3.6	20	24	MMBZ5227B-FDICT-ND◊	.44	3.00	20.80	MMBZ5227B-FDITR-ND◊	80.00/M
3.9	20	23	MMBZ5228BDICT-ND	.44	3.00	20.80	MMBZ5228BDITR-ND	80.00/M
3.9	20	23	MMBZ5228B-FDICT-ND◊	.44	3.00	20.80	MMBZ5228B-FDITR-ND◊	80.00/M
4.3	20	22	MMBZ5229BDICT-ND	.44	3.00	20.80	MMBZ5229BDITR-ND	80.00/M
4.3	20	22	MMBZ5229B-FDICT-ND◊	.44	3.00	20.80	MMBZ5229B-FDITR-ND◊	80.00/M
4.7	20	19	MMBZ5230BDICT-ND	.44	3.00	20.80	—	—
4.7	20	19	MMBZ5230B-FDICT-ND◊	.44	3.00	20.80	MMBZ5230B-FDITR-ND◊	80.00/M
5.1	20	17	MMBZ5231B-FDICT-ND◊	.44	3.00	20.80	MMBZ5231B-FDITR-ND◊	80.00/M
5.6	20	11	MMBZ5232BDICT-ND	.44	3.00	20.80	MMBZ5232BDITR-ND	80.00/M
5.6	20	11	MMBZ5232B-FDICT-ND◊	.44	3.00	20.80	MMBZ5232B-FDITR-ND◊	80.00/M
6.0	20	7	MMBZ5233B-FDICT-ND◊	.44	3.00	20.80	MMBZ5233B-FDITR-ND◊	80.00/M
6.2	20	7	MMBZ5234BDICT-ND	.44	3.00	20.80	—	—
6.2	20	7	MMBZ5234B-FDICT-ND◊	.44	3.00	20.80	MMBZ5234B-FDITR-ND◊	80.00/M
6.8	20	5	MMBZ5235BDICT-ND	.44	3.00	20.80	MMBZ5235BDITR-ND	80.00/M
6.8	20	5	MMBZ5235B-FDICT-ND◊	.44	3.00	20.80	MMBZ5235B-FDITR-ND◊	80.00/M
7.5	20	6	MMBZ5236BDICT-ND	.44	3.00	20.80	MMBZ5236BDITR-ND	80.00/M
7.5	20	6	MMBZ5236B-FDICT-ND◊	.44	3.00	20.80	MMBZ5236B-FDITR-ND◊	80.00/M
8.2	20	8	MMBZ5237BDICT-ND	.44	3.00	20.80	MMBZ5237BDITR-ND	80.00/M
8.2	20	8	MMBZ5237B-FDICT-ND◊	.44	3.00	20.80	MMBZ5237B-FDITR-ND◊	80.00/M
8.7	20	8	MMBZ5238B-FDICT-ND◊	.44	3.00	20.80	MMBZ5238B-FDITR-ND◊	80.00/M
9.1	20	10	MMBZ5239BDICT-ND	.44	3.00	20.80	MMBZ5239BDITR-ND	80.00/M
9.1	20	10	MMBZ5239B-FDICT-ND◊	.44	3.00	20.80	MMBZ5239B-FDITR-ND◊	80.00/M
10	20	17	MMBZ5240BDICT-ND	.44	3.00	20.80	MMBZ5240BDITR-ND	80.00/M
10	20	17	MMBZ5240B-FDICT-ND◊	.44	3.00	20.80	MMBZ5240B-FDITR-ND◊	80.00/M
11	20	22	MMBZ5241B-FDICT-ND◊	.44	3.00	20.80	MMBZ5241B-FDITR-ND◊	80.00/M
12	20	30	MMBZ5242BDICT-ND	.44	3.00	20.80	MMBZ5242BDITR-ND	80.00/M
12	20	30	MMBZ5242B-FDICT-ND◊	.44	3.00	20.80	MMBZ5242B-FDITR-ND◊	80.00/M
13	9.5	13	MMBZ5243BDICT-ND	.44	3.00	20.80	MMBZ5243BDITR-ND	80.00/M
13	9.5	13	MMBZ5243B-FDICT-ND◊	.44	3.00	20.80	MMBZ5243B-FDITR-ND◊	80.00/M
15	8.5	16	MMBZ5245BDICT-ND	.44	3.00	20.80	MMBZ5245BDITR-ND	80.00/M
15	8.5	16	MMBZ5245B-FDICT-ND◊	.44	3.00	20.80	MMBZ5245B-FDITR-ND◊	80.00/M
16	7.8	17	MMBZ5246BDICT-ND	.44	3.00	20.80	MMBZ5246BDITR-ND	80.00/M
16	7.8	17	MMBZ5246B-FDICT-ND◊	.44	3.00	20.80	MMBZ5246B-FDITR-ND◊	80.00/M
18	7.0	21	MMBZ5248BDICT-ND	.44	3.00	20.80	MMBZ5248BDITR-ND	80.00/M
18	7.0	21	MMBZ5248B-FDICT-ND◊	.44	3.00	20.80	MMBZ5248B-FDITR-ND◊	80.00/M
20	6.2	25	MMBZ5250B-FDICT-ND◊	.44	3.00	20.80	MMBZ5250B-FDITR-ND◊	80.00/M
22	5.6	29	MMBZ5251B-FDICT-ND◊	.44	3.00	20.80	MMBZ5251B-FDITR-ND◊	80.00/M
24	5.2	33	MMBZ5252BDICT-ND	.44	3.00	20.80	MMBZ5252BDITR-ND	80.00/M
24	5.2	33	MMBZ5252B-FDICT-ND◊	.44	3.00	20.80	MMBZ5252B-FDITR-ND◊	80.00/M
27	5.0	41	MMBZ5254BDICT-ND	.44	3.00	20.80	MMBZ5254BDITR-ND	80.00/M
27	5.0	41	MMBZ5254B-FDICT-ND◊	.44	3.00	20.80	MMBZ5254B-FDITR-ND◊	80.00/M
28	4.5	44	MMBZ5255BDICT-ND	.44	3.00	20.80	MMBZ5255BDITR-ND	80.00/M
28	4.5	44	MMBZ5255B-FDICT-ND◊	.44	3.00	20.80	MMBZ5255B-FDITR-ND◊	80.00/M
30	4.2	49	MMBZ5256BDICT-ND	.44	3.00	20.80	MMBZ5256BDITR-ND	80.00/M
30	4.2	49	MMBZ5256B-FDICT-ND◊	.44	3.00	20.80	MMBZ5256B-FDITR-ND◊	80.00/M
33	3.8	58	MMBZ5257BDICT-ND	.44	3.00	20.80	MMBZ5257BDITR-ND	80.00/M
33	3.8	58	MMBZ5257B-FDICT-ND◊	.44	3.00	20.80	MMBZ5257B-FDITR-ND◊	80.00/M
36	3.4	70	MMBZ5258BDICT-ND	.44	3.00	20.80	MMBZ5258BDITR-ND	80.00/M
36	3.4	70	MMBZ5258B-FDICT-ND◊	.44	3.00	20.80	MMBZ5258B-FDITR-ND◊	80.00/M
39	3.2	80	MMBZ5259B-FDICT-ND◊	.44	3.00	20.80	MMBZ5259B-FDITR-ND◊	80.00/M

• **BZX2-KIT-ND** ***Digi-Key® SMD Zener Diodes Kit*** 10 each of values denoted (180 total pieces).................. **$23.79**

◊ ***NEW!*** *RoHS Compliant*

SOT-323 Surface Mount Zener Diode — 200mW

Zener Voltage VZ@IZT Nominal (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT@IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 3,000
				10	100	1,000		
BZX Series								
2.4	5.0	100	BZX84C2V4WDICT-ND	2.81	19.80	90.00	BZX84C2V4WDITR-ND	81.00/M
2.4	5.0	100	BZX84C2V4W-FDICT-ND◊	2.81	19.80	90.00	BZX84C2V4W-FDITR-ND◊	81.00/M
2.7	5.0	100	BZX84C2V7WDICT-ND	2.81	19.80	90.00	BZX84C2V7WDITR-ND	81.00/M
2.7	5.0	100	BZX84C2V7W-FDICT-ND◊	2.81	19.80	90.00	BZX84C2V7W-FDITR-ND◊	81.00/M
3.0	5.0	95	BZX84C3V0WDICT-ND	2.81	19.80	90.00	BZX84C3V0WDITR-ND	81.00/M
3.0	5.0	95	BZX84C3V0W-FDICT-ND◊	2.81	19.80	90.00	BZX84C3V0W-FDITR-ND◊	81.00/M
3.3	5.0	95	BZX84C3V3WDICT-ND	2.81	19.80	90.00	BZX84C3V3WDITR-ND	81.00/M
3.3	5.0	95	BZX84C3V3W-FDICT-ND◊	2.81	19.80	90.00	BZX84C3V3W-FDITR-ND◊	81.00/M
3.6	5.0	90	BZX84C3V6WDICT-ND	2.81	19.80	90.00	BZX84C3V6WDITR-ND	81.00/M
3.6	5.0	90	BZX84C3V6W-FDICT-ND◊	2.81	19.80	90.00	BZX84C3V6W-FDITR-ND◊	81.00/M
3.9	5.0	90	BZX84C3V9WDICT-ND	2.81	19.80	90.00	—	—
3.9	5.0	90	BZX84C3V9W-FDICT-ND◊	2.81	19.80	90.00	BZX84C3V9W-FDITR-ND◊	81.00/M
4.3	5.0	90	BZX84C4V3W-FDICT-ND◊	2.81	19.80	90.00	BZX84C4V3W-FDITR-ND◊	81.00/M
4.7	5.0	80	BZX84C4V7WDICT-ND	2.81	19.80	90.00	BZX84C4V7WDITR-ND	81.00/M
4.7	5.0	80	BZX84C4V7W-FDICT-ND◊	2.81	19.80	90.00	BZX84C4V7W-FDITR-ND◊	81.00/M
5.1	5.0	60	BZX84C5V1W-FDICT-ND◊	2.81	19.80	90.00	BZX84C5V1W-FDITR-ND◊	81.00/M
5.6	5.0	40	BZX84C5V6W-FDICT-ND◊	2.81	19.80	90.00	BZX84C5V6W-FDITR-ND◊	81.00/M
6.2	5.0	10	BZX84C6V2WDICT-ND	2.81	19.80	90.00	BZX84C6V2WDITR-ND	81.00/M
6.2	5.0	10	BZX84C6V2W-FDICT-ND◊	2.81	19.80	90.00	BZX84C6V2W-FDITR-ND◊	81.00/M
6.8	5.0	15	BZX84C6V8WDICT-ND	2.81	19.80	90.00	BZX84C6V8WDITR-ND	81.00/M
6.8	5.0	15	BZX84C6V8W-FDICT-ND◊	2.81	19.80	90.00	BZX84C6V8W-FDITR-ND◊	81.00/M
7.5	5.0	15	BZX84C7V5WDICT-ND	2.81	19.80	90.00	—	—
7.5	5.0	15	BZX84C7V5W-FDICT-ND◊	2.81	19.80	90.00	BZX84C7V5W-FDITR-ND◊	81.00/M
8.2	5.0	15	BZX84C8V2WDICT-ND	2.81	19.80	90.00	BZX84C8V2WDITR-ND	81.00/M
8.2	5.0	15	BZX84C8V2W-FDICT-ND◊	2.81	19.80	90.00	BZX84C8V2W-FDITR-ND◊	81.00/M
9.1	5.0	15	BZX84C9V1W-FDICT-ND◊	2.81	19.80	90.00	BZX84C9V1W-FDITR-ND◊	81.00/M
10	5.0	20	BZX84C10WDICT-ND	2.81	19.80	90.00	BZX84C10WDITR-ND	81.00/M
10	5.0	20	BZX84C10W-FDICT-ND◊	2.81	19.80	90.00	BZX84C10W-FDITR-ND◊	81.00/M
11	5.0	20	BZX84C11W-FDICT-ND◊	2.81	19.80	90.00	BZX84C11W-FDITR-ND◊	81.00/M
12	5.0	25	BZX84C12WDICT-ND	2.81	19.80	90.00	BZX84C12WDITR-ND	81.00/M
12	5.0	25	BZX84C12W-FDICT-ND◊	2.81	19.80	90.00	BZX84C12W-FDITR-ND◊	81.00/M
13	5.0	30	BZX84C13W-FDICT-ND◊	2.81	19.80	90.00	BZX84C13W-FDITR-ND◊	81.00/M
15	5.0	30	BZX84C15W-FDICT-ND◊	2.81	19.80	90.00	BZX84C15W-FDITR-ND◊	81.00/M
16	5.0	40	BZX84C16W-FDICT-ND◊	2.81	19.80	90.00	BZX84C16W-FDITR-ND◊	81.00/M
18	5.0	45	BZX84C18WDICT-ND	2.81	19.80	90.00	BZX84C18WDITR-ND	81.00/M
18	5.0	45	BZX84C18W-FDICT-ND◊	2.81	19.80	90.00	BZX84C18W-FDITR-ND◊	81.00/M
20	5.0	55	BZX84C20WDICT-ND	2.81	19.80	90.00	BZX84C20WDITR-ND	81.00/M
20	5.0	55	BZX84C20W-FDICT-ND◊	2.81	19.80	90.00	BZX84C20W-FDITR-ND◊	81.00/M
22	5.0	55	BZX84C22W-FDICT-ND◊	2.81	19.80	90.00	BZX84C22W-FDITR-ND◊	81.00/M
24	5.0	70	BZX84C24W-FDICT-ND◊	2.81	19.80	90.00	BZX84C24W-FDITR-ND◊	81.00/M
27	2.0	80	BZX84C27WDICT-ND	2.81	19.80	90.00	BZX84C27WDITR-ND	81.00/M
27	2.0	80	BZX84C27W-FDICT-ND◊	2.81	19.80	90.00	BZX84C27W-FDITR-ND◊	81.00/M
30	2.0	80	BZX84C30WDICT-ND	2.81	19.80	90.00	BZX84C30WDITR-ND	81.00/M
30	2.0	80	BZX84C30W-FDICT-ND◊	2.81	19.80	90.00	BZX84C30W-FDITR-ND◊	81.00/M
33	2.0	80	BZX84C33WDICT-ND	2.81	19.80	90.00	BZX84C33WDITR-ND	81.00/M
33	2.0	80	BZX84C33W-FDICT-ND◊	2.81	19.80	90.00	BZX84C33W-FDITR-ND◊	81.00/M
36	2.0	90	BZX84C36WDICT-ND	2.81	19.80	90.00	—	—
36	2.0	90	BZX84C36W-FDICT-ND◊	2.81	19.80	90.00	BZX84C36W-FDITR-ND◊	81.00/M
39	2.0	130	BZX84C39WDICT-ND	2.81	19.80	90.00	BZX84C39WDITR-ND	81.00/M
39	2.0	130	BZX84C39W-FDICT-ND◊	2.81	19.80	90.00	BZX84C39W-FDITR-ND◊	81.00/M
MMBZ Series								
2.4	20	30	MMBZ5221BWDICT-ND	2.81	19.80	90.00	—	—
2.4	20	30	MMBZ5221BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5221BW-FDITR-ND◊	81.00/M
2.7	20	30	MMBZ5223BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5223BW-FDITR-ND◊	81.00/M
3.0	20	30	MMBZ5225BWDICT-ND◊	2.81	19.80	90.00	MMBZ5225BWDITR-ND	81.00/M
3.0	20	30	MMBZ5225BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5225BW-FDITR-ND◊	81.00/M
3.3	20	28	MMBZ5226BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5226BW-FDITR-ND◊	81.00/M
3.6	20	24	MMBZ5227BWDICT-ND	2.81	19.80	90.00	MMBZ5227BWDITR-ND	81.00/M
3.6	20	24	MMBZ5227BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5227BW-FDITR-ND◊	81.00/M
3.9	20	23	MMBZ5228BWDICT-ND	2.81	19.80	90.00	—	—
3.9	20	23	MMBZ5228BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5228BW-FDITR-ND◊	81.00/M
4.3	20	22	MMBZ5229BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5229BW-FDITR-ND◊	81.00/M
4.7	20	19	MMBZ5230BWDICT-ND	2.81	19.80	90.00	MMBZ5230BWDITR-ND	81.00/M
4.7	20	19	MMBZ5230BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5230BW-FDITR-ND◊	81.00/M
5.1	20	17	MMBZ5231BWDICT-ND	2.81	19.80	90.00	MMBZ5231BWDITR-ND	81.00/M
5.1	20	17	MMBZ5231BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5231BW-FDITR-ND◊	81.00/M
5.6	20	11	MMBZ5232BWDICT-ND	2.81	19.80	90.00	MMBZ5232BWDITR-ND	81.00/M
5.6	20	11	MMBZ5232BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5232BW-FDITR-ND◊	81.00/M
6.2	20	7.0	MMBZ5234BWDICT-ND	2.81	19.80	90.00	MMBZ5234BWDITR-ND	81.00/M
6.2	20	7.0	MMBZ5234BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5234BW-FDITR-ND◊	81.00/M
6.8	20	5.0	MMBZ5235BWDICT-ND	2.81	19.80	90.00	MMBZ5235BWDITR-ND	81.00/M
6.8	20	5.0	MMBZ5235BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5235BW-FDITR-ND◊	81.00/M
7.5	20	6.0	MMBZ5236BWDICT-ND	2.81	19.80	90.00	MMBZ5236BWDITR-ND	81.00/M
7.5	20	6.0	MMBZ5236BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5236BW-FDITR-ND◊	81.00/M
8.2	20	8.0	MMBZ5237BWDICT-ND	2.81	19.80	90.00	—	—
8.2	20	8.0	MMBZ5237BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5237BW-FDITR-ND◊	81.00/M
9.1	20	10	MMBZ5239BWDICT-ND	2.81	19.80	90.00	—	—
9.1	20	10	MMBZ5239BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5239BW-FDITR-ND◊	81.00/M
10	20	17	MMBZ5240BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5240BW-FDITR-ND◊	81.00/M
11	20	22	MMBZ5241BWDICT-ND	2.81	19.80	90.00	MMBZ5241BWDITR-ND	81.00/M
11	20	22	MMBZ5241BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5241BW-FDITR-ND◊	81.00/M
12	20	30	MMBZ5242BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5242BW-FDITR-ND◊	81.00/M
13	9.5	13	MMBZ5243BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5243BW-FDITR-ND◊	81.00/M
15	8.5	16	MMBZ5245BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5245BW-FDITR-ND◊	81.00/M
16	7.8	17	MMBZ5246BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5246BW-FDITR-ND◊	81.00/M
18	7.0	21	MMBZ5248BWDICT-ND	2.81	19.80	90.00	—	—
18	7.0	21	MMBZ5248BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5248BW-FDITR-ND◊	81.00/M
20	6.2	25	MMBZ5250BWDICT-ND	2.81	19.80	90.00	—	—
20	6.2	25	MMBZ5250BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5250BW-FDITR-ND◊	81.00/M

◊ ***RoHS Compliant***

(Continued)

Zener Diodes *(Cont.)*

SOT-323 Surface Mount Zener Diode — 200mW *(Cont.)*

Zener Voltage VZ@IZT Nominal (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT@IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
22	5.6	29	MMBZ5251BWDICT-ND	2.81	19.80	90.00	MMBZ5251BWDITR-ND	81.00/M
22	5.6	29	MMBZ5251BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5251BW-FDITR-ND◊	81.00/M
24	5.2	33	MMBZ5252BWDICT-ND	2.81	19.80	90.00	—	—
24	5.2	33	MMBZ5252BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5252BW-FDITR-ND◊	81.00/M
27	5.0	41	MMBZ5254BWDICT-ND	2.81	19.80	90.00	MMBZ5254BWDITR-ND	81.00/M
27	5.0	41	MMBZ5254BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5254BW-FDITR-ND◊	81.00/M
28	4.5	44	MMBZ5255BWDICT-ND	2.81	19.80	90.00	MMBZ5255BWDITR-ND	81.00/M
28	4.5	44	MMBZ5255BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5255BW-FDITR-ND◊	81.00/M
30	4.2	49	MMBZ5256BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5256BW-FDITR-ND◊	81.00/M
33	3.8	58	MMBZ5257BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5257BW-FDITR-ND◊	81.00/M
36	3.4	70	MMBZ5258BWDICT-ND	2.81	19.80	90.00	—	—
36	3.4	70	MMBZ5258BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5258BW-FDITR-ND◊	81.00/M
39	3.2	80	MMBZ5259BWDICT-ND	2.81	19.80	90.00	MMBZ5259BWDITR-ND	81.00/M
39	3.2	80	MMBZ5259BW-FDICT-ND◊	2.81	19.80	90.00	MMBZ5259BW-FDITR-ND◊	81.00/M

◊ *RoHS Compliant*

SOT-363 Dual Isolated Surface Mount Zener Diodes — 200mW

BZX Series

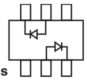

MMBZ Series

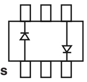

Zener Voltage VZ @ IZT Nominal (V)	Test Current IZT (mA)	Max. Dynamic Imped. ZZT@IZT (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 3,000
BZX Series								
2.4	5.0	100	BZX84C2V4S-FDICT-ND◊	3.13	22.00	100.00	BZX84C2V4S-FDITR-ND◊	90.00/M
2.7	5.0	100	BZX84C2V7SDICT-ND	3.13	22.00	100.00	BZX84C2V7SDITR-ND	90.00/M
2.7	5.0	100	BZX84C2V7S-FDICT-ND◊	3.13	22.00	100.00	BZX84C2V7S-FDITR-ND◊	90.00/M
3.0	5.0	95	BZX84C3V0S-FDICT-ND◊	3.13	22.00	100.00	BZX84C3V0S-FDITR-ND◊	90.00/M
3.3	5.0	95	BZX84C3V3SDICT-ND	3.13	22.00	100.00	BZX84C3V3SDITR-ND	90.00/M
3.3	5.0	95	BZX84C3V3S-FDICT-ND◊	3.13	22.00	100.00	BZX84C3V3S-FDITR-ND◊	90.00/M
3.6	5.0	90	BZX84C3V6SDICT-ND	3.13	22.00	100.00	BZX84C3V6SDITR-ND	90.00/M
3.6	5.0	90	BZX84C3V6S-FDICT-ND◊	3.13	22.00	100.00	BZX84C3V6S-FDITR-ND◊	90.00/M
3.9	5.0	90	BZX84C3V9SDICT-ND	3.13	22.00	100.00	—	—
3.9	5.0	90	BZX84C3V9S-FDICT-ND◊	3.13	22.00	100.00	BZX84C3V9S-FDITR-ND◊	90.00/M
4.3	5.0	90	BZX84C4V3S-FDICT-ND◊	3.13	22.00	100.00	BZX84C4V3S-FDITR-ND◊	90.00/M
4.7	5.0	80	BZX84C4V7SDICT-ND	3.13	22.00	100.00	BZX84C4V7SDITR-ND	90.00/M
4.7	5.0	80	BZX84C4V7S-FDICT-ND◊	3.13	22.00	100.00	BZX84C4V7S-FDITR-ND◊	90.00/M
5.1	5.0	60	BZX84C5V1SDICT-ND	3.13	22.00	100.00	—	—
5.1	5.0	60	BZX84C5V1S-FDICT-ND◊	3.13	22.00	100.00	BZX84C5V1S-FDITR-ND◊	90.00/M
5.6	5.0	40	BZX84C5V6S-FDICT-ND◊	3.13	22.00	100.00	BZX84C5V6S-FDITR-ND◊	90.00/M
6.2	5.0	10	BZX84C6V2S-FDICT-ND◊	3.13	22.00	100.00	BZX84C6V2S-FDITR-ND◊	90.00/M
6.8	5.0	15	BZX84C6V8SDICT-ND	3.13	22.00	100.00	—	—
6.8	5.0	15	BZX84C6V8S-FDICT-ND◊	3.13	22.00	100.00	BZX84C6V8S-FDITR-ND◊	90.00/M
7.5	5.0	15	BZX84C7V5SDICT-ND	3.13	22.00	100.00	BZX84C7V5SDITR-ND	90.00/M
7.5	5.0	15	BZX84C7V5S-FDICT-ND◊	3.13	22.00	100.00	BZX84C7V5S-FDITR-ND◊	90.00/M
8.2	5.0	15	BZX84C8V2SDICT-ND	3.13	22.00	100.00	BZX84C8V2SDITR-ND	90.00/M
8.2	5.0	15	BZX84C8V2S-FDICT-ND◊	3.13	22.00	100.00	BZX84C8V2S-FDITR-ND◊	90.00/M
9.1	5.0	15	BZX84C9V1SDICT-ND	3.13	22.00	100.00	BZX84C9V1SDITR-ND	90.00/M
9.1	5.0	15	BZX84C9V1S-FDICT-ND◊	3.13	22.00	100.00	BZX84C9V1S-FDITR-ND◊	90.00/M
10	5.0	20	BZX84C10S-FDICT-ND◊	3.13	22.00	100.00	BZX84C10S-FDITR-ND◊	90.00/M
11	5.0	20	BZX84C11SDICT-ND	3.13	22.00	100.00	BZX84C11SDITR-ND	90.00/M
11	5.0	20	BZX84C11S-FDICT-ND◊	3.13	22.00	100.00	BZX84C11S-FDITR-ND◊	90.00/M
12	5.0	25	BZX84C12SDICT-ND	3.13	22.00	100.00	—	—
12	5.0	25	BZX84C12S-FDICT-ND◊	3.13	22.00	100.00	BZX84C12S-FDITR-ND◊	90.00/M
13	5.0	30	BZX84C13S-FDICT-ND◊	3.13	22.00	100.00	BZX84C13S-FDITR-ND◊	90.00/M
15	5.0	30	BZX84C15SDICT-ND	3.13	22.00	100.00	—	—
15	5.0	30	BZX84C15S-FDICT-ND◊	3.13	22.00	100.00	BZX84C15S-FDITR-ND◊	90.00/M
16	5.0	40	BZX84C16S-FDICT-ND◊	3.13	22.00	100.00	BZX84C16S-FDITR-ND◊	90.00/M
18	5.0	45	BZX84C18SDICT-ND	3.13	22.00	100.00	—	—
18	5.0	45	BZX84C18S-FDICT-ND◊	3.13	22.00	100.00	BZX84C18S-FDITR-ND◊	90.00/M
20	5.0	55	BZX84C20SDICT-ND	3.13	22.00	100.00	BZX84C20SDITR-ND	90.00/M
20	5.0	55	BZX84C20S-FDICT-ND◊	3.13	22.00	100.00	BZX84C20S-FDITR-ND◊	90.00/M
22	5.0	55	BZX84C22SDICT-ND	3.13	22.00	100.00	BZX84C22SDITR-ND	90.00/M
22	5.0	55	BZX84C22S-FDICT-ND◊	3.13	22.00	100.00	BZX84C22S-FDITR-ND◊	90.00/M
24	5.0	70	BZX84C24SDICT-ND	3.13	22.00	100.00	BZX84C24SDITR-ND	90.00/M
24	5.0	70	BZX84C24S-FDICT-ND◊	3.13	22.00	100.00	BZX84C24S-FDITR-ND◊	90.00/M
27	2.0	80	BZX84C27SDICT-ND	3.13	22.00	100.00	BZX84C27SDITR-ND	90.00/M
27	2.0	80	BZX84C27S-FDICT-ND◊	3.13	22.00	100.00	BZX84C27S-FDITR-ND◊	90.00/M
30	2.0	80	BZX84C30S-FDICT-ND◊	3.13	22.00	100.00	BZX84C30S-FDITR-ND◊	90.00/M
33	2.0	80	BZX84C33SDICT-ND	3.13	22.00	100.00	BZX84C33SDITR-ND	90.00/M
33	2.0	80	BZX84C33S-FDICT-ND◊	3.13	22.00	100.00	BZX84C33S-FDITR-ND◊	90.00/M
36	2.0	90	BZX84C36SDICT-ND	3.13	22.00	100.00	—	—
36	2.0	90	BZX84C36S-FDICT-ND◊	3.13	22.00	100.00	BZX84C36S-FDITR-ND◊	90.00/M
39	2.0	130	BZX84C39SDICT-ND	3.13	22.00	100.00	BZX84C39SDITR-ND	90.00/M
39	2.0	130	BZX84C39S-FDICT-ND◊	3.13	22.00	100.00	BZX84C39S-FDITR-ND◊	90.00/M
MMBZ Series								
2.4	20	30	MMBZ5221BSDICT-ND	3.13	22.00	100.00	MMBZ5221BSDITR-ND	90.00/M
2.4	20	30	MMBZ5221BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5221BS-FDITR-ND◊	90.00/M
2.7	20	30	MMBZ5223BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5223BS-FDITR-ND◊	90.00/M
3.0	20	30	MMBZ5225BSDICT-ND	3.13	22.00	100.00	MMBZ5225BSDITR-ND	90.00/M
3.0	20	30	MMBZ5225BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5225BS-FDITR-ND◊	90.00/M
3.3	20	28	MMBZ5226BSDICT-ND	3.13	22.00	100.00	MMBZ5226BSDITR-ND	90.00/M
3.3	20	28	MMBZ5226BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5226BS-FDITR-ND◊	90.00/M
3.6	20	24	MMBZ5227BSDICT-ND	3.13	22.00	100.00	—	—
3.6	20	24	MMBZ5227BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5227BS-FDITR-ND◊	90.00/M
3.9	20	23	MMBZ5228BSDICT-ND	3.13	22.00	100.00	MMBZ5228BSDITR-ND	90.00/M
3.9	20	23	MMBZ5228BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5228BS-FDITR-ND◊	90.00/M
4.3	20	22	MMBZ5229BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5229BS-FDITR-ND◊	90.00/M
4.7	20	19	MMBZ5230BSDICT-ND	3.13	22.00	100.00	—	—
4.7	20	19	MMBZ5230BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5230BS-FDITR-ND◊	90.00/M
5.1	20	17	MMBZ5231BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5231BS-FDITR-ND◊	90.00/M
5.6	20	11	MMBZ5232BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5232BS-FDITR-ND◊	90.00/M
6.0	20	7	MMBZ5233BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5233BS-FDITR-ND◊	90.00/M
6.2	20	7	MMBZ5234BSDICT-ND	3.13	22.00	100.00	MMBZ5234BSDITR-ND	90.00/M
6.2	20	7	MMBZ5234BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5234BS-FDITR-ND◊	90.00/M
6.8	20	5	MMBZ5235BSDICT-ND	3.13	22.00	100.00	—	—
6.8	20	5	MMBZ5235BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5235BS-FDITR-ND◊	90.00/M
7.5	20	6	MMBZ5236BSDICT-ND	3.13	22.00	100.00	MMBZ5236BSDITR-ND	90.00/M
7.5	20	6	MMBZ5236BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5236BS-FDITR-ND◊	90.00/M
8.2	20	8	MMBZ5237BSDICT-ND	3.13	22.00	100.00	MMBZ5237BSDITR-ND	90.00/M
8.2	20	8	MMBZ5237BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5237BS-FDITR-ND◊	90.00/M
8.7	20	8	MMBZ5238BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5238BS-FDITR-ND◊	90.00/M
9.1	20	10	MMBZ5239BSDICT-ND	3.13	22.00	100.00	MMBZ5239BSDITR-ND	90.00/M
9.1	20	10	MMBZ5239BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5239BS-FDITR-ND◊	90.00/M
10	20	17	MMBZ5240BSDICT-ND	3.13	22.00	100.00	MMBZ5240BSDITR-ND	90.00/M
10	20	17	MMBZ5240BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5240BS-FDITR-ND◊	90.00/M
11	20	22	MMBZ5241BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5241BS-FDITR-ND◊	90.00/M
12	20	30	MMBZ5242BSDICT-ND	3.13	22.00	100.00	MMBZ5242BSDITR-ND	90.00/M
12	20	30	MMBZ5242BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5242BS-FDITR-ND◊	90.00/M
13	9.5	13	MMBZ5243BSDICT-ND	3.13	22.00	100.00	MMBZ5243BSDITR-ND	90.00/M
13	9.5	13	MMBZ5243BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5243BS-FDITR-ND◊	90.00/M
15	8.5	16	MMBZ5245BSDICT-ND	3.13	22.00	100.00	MMBZ5245BSDITR-ND	90.00/M
15	8.5	16	MMBZ5245BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5245BS-FDITR-ND◊	90.00/M
16	7.8	17	MMBZ5246BSDICT-ND	3.13	22.00	100.00	MMBZ5246BSDITR-ND	90.00/M
16	7.8	17	MMBZ5246BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5246BS-FDITR-ND◊	90.00/M
18	7.0	21	MMBZ5248BSDICT-ND	3.13	22.00	100.00	MMBZ5248BSDITR-ND	90.00/M
18	7.0	21	MMBZ5248BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5248BS-FDITR-ND◊	90.00/M
20	6.2	25	MMBZ5250BSDICT-ND	3.13	22.00	100.00	MMBZ5250BSDITR-ND	90.00/M
20	6.2	25	MMBZ5250BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5250BS-FDITR-ND◊	90.00/M
22	5.6	29	MMBZ5251BSDICT-ND	3.13	22.00	100.00	MMBZ5251BSDITR-ND	90.00/M
22	5.6	29	MMBZ5251BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5251BS-FDITR-ND◊	90.00/M
24	5.2	33	MMBZ5252BSDICT-ND	3.13	22.00	100.00	MMBZ5252BSDITR-ND	90.00/M
24	5.2	33	MMBZ5252BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5252BS-FDITR-ND◊	90.00/M
27	5.0	41	MMBZ5254BSDICT-ND	3.13	22.00	100.00	MMBZ5254BSDITR-ND	90.00/M
27	5.0	41	MMBZ5254BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5254BS-FDITR-ND◊	90.00/M
28	4.5	44	MMBZ5255BSDICT-ND	3.13	22.00	100.00	MMBZ5255BSDITR-ND	90.00/M
28	4.5	44	MMBZ5255BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5255BS-FDITR-ND◊	90.00/M
30	4.2	49	MMBZ5256BSDICT-ND	3.13	22.00	100.00	—	—
30	4.2	49	MMBZ5256BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5256BS-FDITR-ND◊	90.00/M
33	3.8	58	MMBZ5257BSDICT-ND	3.13	22.00	100.00	MMBZ5257BSDITR-ND	90.00/M
33	3.8	58	MMBZ5257BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5257BS-FDITR-ND◊	90.00/M
36	3.4	70	MMBZ5258BSDICT-ND	3.13	22.00	100.00	MMBZ5258BSDITR-ND	90.00/M
36	3.4	70	MMBZ5258BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5258BS-FDITR-ND◊	90.00/M
39	3.2	80	MMBZ5259BSDICT-ND	3.13	22.00	100.00	MMBZ5259BSDITR-ND	90.00/M
39	3.2	80	MMBZ5259BS-FDICT-ND◊	3.13	22.00	100.00	MMBZ5259BS-FDITR-ND◊	90.00/M

◊ *RoHS Compliant*

SMA Surface Mount Zener Diodes — 1.0W, 5% Tolerance

Zener Voltage VZ @ IZT Nom. (V)	Test Current IZT (mA)	Maximum Dynamic Impedance ZZT@IZT(Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 5,000
5.1	100	5.0	SMAZ5V1-FDICT-ND◊	4.00	28.80	84.00	SMAZ5V1-FDITR-ND◊	128.00/M
5.6	100	2.0	SMAZ5V6-FDICT-ND◊	4.00	28.80	84.00	SMAZ5V6-FDITR-ND◊	128.00/M
6.2	100	2.0	SMAZ6V2-FDICT-ND◊	4.00	28.80	84.00	SMAZ6V2-FDITR-ND◊	128.00/M
6.8	100	2.0	SMAZ6V8-FDICT-ND◊	4.00	28.80	84.00	SMAZ6V8-FDITR-ND◊	128.00/M
7.5	100	2.0	SMAZ7V5-FDICT-ND◊	4.00	28.80	84.00	SMAZ7V5-FDITR-ND◊	128.00/M
8.2	100	2.0	SMAZ8V2-FDICT-ND◊	4.00	28.80	84.00	SMAZ8V2-FDITR-ND◊	128.00/M
9.1	50	4.0	SMAZ9V1-FDICT-ND◊	4.00	28.80	84.00	SMAZ9V1-FDITR-ND◊	128.00/M
10	50	4.0	SMAZ10-FDICT-ND◊	4.00	28.80	84.00	SMAZ10-FDITR-ND◊	128.00/M
12	50	7.0	SMAZ12-FDICT-ND◊	4.00	28.80	84.00	SMAZ12-FDITR-ND◊	128.00/M
15	50	10	SMAZ15-FDICT-ND◊	4.00	28.80	84.00	SMAZ15-FDITR-ND◊	128.00/M
16	25	15	SMAZ16-FDICT-ND◊	4.00	28.80	84.00	SMAZ16-FDITR-ND◊	128.00/M
18	25	15	SMAZ18DICT-ND	4.00	28.80	84.00	SMAZ18DITR-ND	128.00/M
18	25	15	SMAZ18-FDICT-ND◊	4.00	28.80	84.00	SMAZ18-FDITR-ND◊	128.00/M
20	25	15	SMAZ20-FDICT-ND◊	4.00	28.80	84.00	SMAZ20-FDITR-ND◊	128.00/M
22	25	15	SMAZ22-FDICT-ND◊	4.00	28.80	84.00	SMAZ22-FDITR-ND◊	128.00/M
24	25	15	SMAZ24-FDICT-ND◊	4.00	28.80	84.00	SMAZ24-FDITR-ND◊	128.00/M
27	25	15	SMAZ27-FDICT-ND◊	4.00	28.80	84.00	SMAZ27-FDITR-ND◊	128.00/M
30	25	15	SMAZ30-FDICT-ND◊	4.00	28.80	84.00	SMAZ30-FDITR-ND◊	128.00/M
33	25	15	SMAZ33-FDICT-ND◊	4.00	28.80	84.00	SMAZ33-FDITR-ND◊	128.00/M
36	10	40	SMAZ36-FDICT-ND◊	4.00	28.80	84.00	SMAZ36-FDITR-ND◊	128.00/M
39	10	40	SMAZ39DICT-ND	4.00	28.80	84.00	—	—
39	10	40	SMAZ39-FDICT-ND◊	4.00	28.80	84.00	SMAZ39-FDITR-ND◊	128.00/M

◊ *RoHS Compliant*

TOSHIBA Zener Diodes

Maximum Ratings (Ta=25°C):
Power dissipation 700 mW

S-Flat Package (3-2A1A)

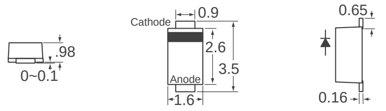

◊ ***RoHS Compliant***

Zener Voltage Typical VZ (V)	Maximum Impedance rd (Ω)	Test Current IZ (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
S-Flat Package								
10.0	30	10	CRZ10CT-ND	.42	.34	.26	CRZ10TR-ND	109.20/M
11.0	30	10	CRZ11CT-ND	.60	.45	.34	CRZ11TR-ND	195.00/M
13.0	30	10	CRZ13CT-ND	.60	.45	.34	CRZ13TR-ND	195.00/M
15.0	30	10	CRZ15CT-ND	.50	.40	.30	CRZ15TR-ND	135.00/M
15.0	30	10	CRZ15QCT-ND◊ ***NEW!***	.50	.40	.30	CRZ15QTR-ND◊ ***NEW!***	135.00/M
16.0	30	10	CRZ16CT-ND	.50	.40	.30	CRZ16TR-ND	135.00/M
16.0	30	10	CRZ16QCT-ND◊ ***NEW!***	.50	.40	.30	CRZ16QTR-ND◊ ***NEW!***	135.00/M
20.0	30	10	CRZ20CT-ND	.60	.45	.34	CRZ20TR-ND	195.00/M
22.0	30	10	CRZ22CT-ND	.50	.40	.30	—	—
27.0	30	10	CRZ27CT-ND	.50	.40	.30	—	—
30.0	30	10	CRZ30CT-ND	.60	.45	.34	—	—
33.0	30	10	CRZ33CT-ND	.60	.45	.34	—	—
36.0	30	9	CRZ36CT-ND	.60	.45	.34	CRZ36TR-ND	195.00/M
39.0	35	8	CRZ39CT-ND	.60	.45	.34	CRZ39TR-ND	195.00/M
43.0	40	7	CRZ43CT-ND	.60	.45	.34	—	—
47.0	65	6	CRZ47CT-ND	.40	.30	.23	CRZ47TR-ND	130.00/M

Microsemi. Zener Diodes

Fig. 1
DO-35
500 mW

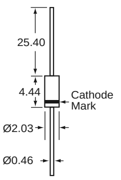

Fig. 2
DO-41
1 W/2 W

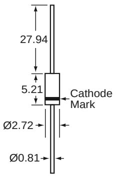

Fig. 3
T-18
5 W

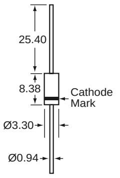

Fig. 4
DO-214AA
5 W

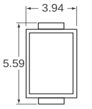

500 mW Series DO-35 Silicon Zener Diodes, 1N5221 — 1N5281

(Value)	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	*(Value)*	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	*(Value)*	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	*(Value)*	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)	*(Value)*	Nominal Zener Voltage Vz @ Izt (Volts)	Test Current Izt (mA)
21	2.4	20	35	6.8	20	45	15	8.5	55	28	4.5	69	87	1.4
24	2.8	20	36	7.5	20	46	16	7.8	58	36	3.4	70	91	1.4
26	3.3	20	37	8.2	20	47	17	7.4	60	43	3.0	71	100	1.3
27	3.6	20	38	8.7	20	48	18	7.0	61	47	2.7	72	110	1.1
28	3.9	20	39	9.1	20	49	19	6.6	62	51	2.5	73	120	1.0
29	4.3	20	40	10	20	50	20	6.2	64	60	2.1	74	130	0.95
30	4.7	20	41	11	20	51	22	5.6	65	62	2.0	75	140	0.90
31	5.1	20	42	12	20	52	24	5.2	66	68	1.8	77	160	0.80
33	6.0	20	43	13	9.5	53	25	5.0	67	75	1.7	78	170	0.74
34	6.2	20	44	14	9.0	54	27	4.6	68	82	1.5	79	180	0.68

1W Series, DO-41 Glass Zener Diodes 1N4729A — 1N4763A

(Value)	Zener Voltage Vz (Volts)	Test Current Izt (mA)	*(Value)*	Zener Voltage Vz (Volts)	Test Current Izt (mA)
29	3.6	69	41	11	23
33	5.1	49	42	12	21
34	5.6	45	43	13	19
35	6.2	41	56	47	5.5
36	6.8	37	58	56	4.5
37	7.5	34	59	62	4.0
38	8.2	31	62	82	3.0
40	10	25	63	91	2.8

2 W Series, DO-41 Silicon Zener Diodes 2EZ3.6D5 — 2EZ200D5

(Value)	Nominal Zener Voltage Vz (Volts)	Izt (mA)	*(Value)*	Nominal Zener Voltage Vz (Volts)	Izt (mA)	*(Value)*	Nominal Zener Voltage Vz (Volts)	Izt (mA)
3.6	3.6	139	17	17	29.4	62	62	8.1
3.9	3.9	128	18	18	27.8	75	75	6.7
4.3	4.3	116	19	19	26.3	82	82	6.1
5.1	5.1	98	20	20	25	91	91	5.5
6.2	6.2	80.5	22	22	22.8	110	110	4.5
6.8	6.8	73.5	27	27	18.5	120	120	4.2
7.5	7.5	66.5	33	33	15.1	130	130	3.8
8.2	8.2	61	39	39	12.8	140	140	3.6
12	12	41.5	43	43	11.6	170	170	2.9
13	13	38.5	47	47	10.6	180	180	2.8
14	14	35.7	51	51	9.8	190	190	2.6
15	15	33.4	56	56	9.0	200	200	2.5

5 W Series, T-18 Silicon Zener Diodes 1N5333B — 1N5388B

(Value)	Regulator Voltage Vz	Test Current Iz	*(Value)*	Regulator Voltage Vz	Test Current Iz
33	3.3	380	73	68	20
34	3.6	350	75	82	15
36	4.3	290	76	87	15
40	6.0	200	79	110	12
43	7.5	175	81	130	10
49	12	100	86	180	5.0
51	14	100	87	190	5.0
53	16	75	88	200	5.0
58	22	50			
65	36	30			
70	56	20			

Fig.	DC Power Dissipation	Voltage Range (Code) See Chart	Digi-Key Part No.*	Cut Tape Pricing 1	10	100	Digi-Key Part No.*	Tape and Reel Pricing 2,500	3,000	4,000	6,000	8,000	10,000	Microsemi Part No.*
1	500 mW	2.4V — 200V	1N52(Value)DO35MSCT-ND	1.20	8.40	60.00	1N52(Value)DO35MSTR-ND	—	—	—	—	—	210.00/M	1N52(Value)DO35
2	1 W	3.6V — 91V	1N47(Value)ADO41MSCT-ND	.25	1.65	13.20	1N47(Value)ADO41MSTR-ND	—	—	74.00/M	—	59.00/M	—	1N47(Value)ADO41
	2 W	3.6V — 200V	2EZ(Value)D5DO41MSCT-ND	1.42	9.45	75.60	2EZ(Value)D5DO41MSTR-ND	—	—	293.00/M	—	340.00/M	—	2EZ(Value)D5DO41
3	5 W	3.3V — 200V	1N53(Value)BMSCT-ND	1.20	8.00	64.00	1N53(Value)BMSTR-ND	—	400.00/M	—	320.00/M	—	—	1N53(Value)B

* For complete part number, substitute corresponding value from chart for (Value).

POWERMITE™ Pin Diodes

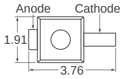

Maximum Reverse Voltage (V)	Average Power Dissipation (W)	Maximum Capaci-tance (pF)	Maximum Reverse Current (µA)	Maximum Forward Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000	Microsemi Part No.
100	2.5	1.6	10	1.0	UPP1001E3CT-ND	2.40	2.16	1.80	UPP1001E3TR-ND	1500.00/M	UPP1001E3/TR7
50	2.5	1.0	—	1.0	UPP9401E3CT-ND	2.32	2.09	1.74	UPP9401E3TR-ND	1450.00/M	UPP9401E3/TR7

DIODES INCORPORATED High-Efficiency Rectifiers

- Operating and Storage Temperature: -65°C ~ 175°C
- Reverse recovery test @ 1.0A, V_R = 30V

Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Reverse Current @25°C (µA)	Maximum Forward Voltage Peak (V)	Maximum Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	1,200	5,000	Package
1.0	50	50	5.0	1.0	50	HER101DICT-ND	.41	3.00	21.12	HER101DITR-ND	—	—	82.00/M	**DO-41** 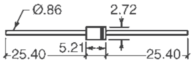
	100	50	5.0	1.0	50	HER102DICT-ND	.46	3.38	23.76	HER102DITR-ND	—	—	92.00/M	
	200	50	5.0	1.0	50	HER103DICT-ND	.48	3.56	25.08	HER103DITR-ND	—	—	97.00/M	
	300	50	5.0	1.0	50	HER104DICT-ND	.48	3.70	26.64	HER104DITR-ND	—	—	118.00/M	
	400	50	5.0	1.0	50	HER105DICT-ND	.46	3.68	27.60	HER105DITR-ND	—	—	129.00/M	
3.0	50	200	10.0	1.0	50	HER301DICT-ND	.63	5.00	37.50	HER301DITR-ND	—	200.00/M	—	**DO-201AD** 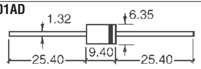
	100	200	10.0	1.0	50	HER302DICT-ND	.65	5.20	39.00	HER302DITR-ND	—	208.00/M	—	
	200	200	10.0	1.0	50	HER303DICT-ND	.70	5.60	42.00	HER303DITR-ND	—	224.00/M	—	
	300	200	10.0	1.0	50	HER304DICT-ND	.64	5.12	38.40	HER304DITR-ND	—	232.00/M	—	
	400	200	10.0	1.0	50	HER305DICT-ND	.72	5.76	43.20	HER305DITR-ND	—	261.00/M	—	
6.0	50	300	10.0	1.0	60	HER601DICT-ND	.96	7.68	57.60	HER601DITR-ND	198.00	—	—	**R-6** 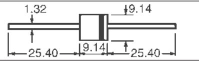
	100	300	10.0	1.0	60	HER602DICT-ND	.86	6.76	52.00	HER602DITR-ND	188.50	—	—	
	200	300	10.0	1.0	60	HER603DICT-ND	.92	7.28	56.00	HER603DITR-ND	203.00	—	—	
	300	300	10.0	1.0	60	HER604DICT-ND	1.16	9.10	70.00	HER604DITR-ND	254.00	—	—	

Microsemi Corporation is a world leader known for its ability to build quality, state of the art discrete products with a longevity in the market place.

Specializing in Transient Protection, Power Conditioning and Packaging, Microsemi is more than just solutions, we enable Possibilities!

Powermite Package

1/3 the Size of SMA!

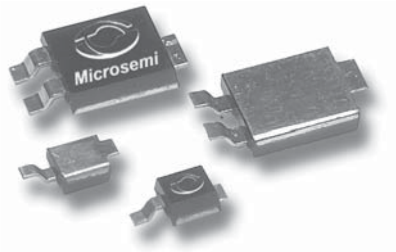

Microsemi's Powermite Product Division is a world leader in providing high density discrete solutions.
This patented technology provides size retrained designed with more options.

Features:

Built in Heatsink

- The patented "full-metal-bottom" design provides the optimal heat path for dissipating junction heat handling up to 2 Amps!

Solder Wickability

- The patented interlocking construction incorporates a path for solder to "wick" up the side of the package and enhance the power dissipation

Space Saver

- These 2 leaded devices are 1/3 the size of comparable rated devices

Flexible Package for Custom Product (Max. die size 110mm x 110mm)

- Microsemi offers Schottkys, Ultrafast Rectifiers, MOSFETs, SCR's and Schottky+FET combinations

Synchronous Rectifier Module (SRM4010)

Is a complete solution for implementing a very high efficiency Synchronous Rectification and eliminates many of the problems with self driven approaches.

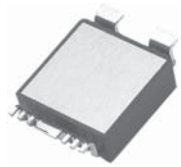

Features:

- Rectification Efficiency 95% at output voltages of 5V down to 1V
- Able to handle large sudden changes in duty cycle
- Robust package with copper plate for excellent heat dissipation
- Operates at PWM frequencies ranging from 200-400KHz

www.Microsemi.com

TVS Devices

Microsemi has the largest offering of TVS devices: 12,000 devices! These devices are perfect to safeguard your components from voltage spike originating from electrostatic discharge (ESD), induced lightning and inductive load switching.

Just Pick Two:

All you need to know is 2 of the following 3 specs to find the part you need!

Vwm - Standoff Voltage:

Maximum working voltage at which the device is intended to operate. *Typical 3V, 5V, 12V, 15V, 24V. VWM is 10% below VBR.*

Vbr - Breakdown Voltage:

Voltage at which device goes into hard conduction or *avalanche* breakdown.

Vc - Clamping Voltage:

Maximum voltage appearing across TVS at Peak Pulse Current (IPP). *VC is typically 20% higher than VBR.*

High Speed Data Line Protectors

Provide voltage Spike Protection for Data and Telecom, I/O Ports originating from ESD, EFT and Induces Lightning

USB6B1	**500W, 8/20 us**
SMP6LCxx	**600W, 10/100 us**

USB Protection: 3 in 1

USB Line Termination + EMI Filtering + ESD Protection =

LX7201: Downstream SOT-23-6
LX7202: Upstream SOT-23-6
LX7203: Upstream SC70

The LX7201/2/3 family is an integrated USB line termination device with EMI filtering and ESD protection diodes. The 15kΩ pull-down resistors on the LX7201 identify the lines for downstream operation. The 1.5kΩ pull-up resistors on the LX7202 and LX7203 identify the appropriate data line for full and low speed upstream operation. The 47pF capacitor completes the high frequency filter and controls the edge rate of the USB signals. These devices protect both D+ and D- data lines and the voltage bus from ESD. All devices meet IEC61000-4-2, level 4, 15kV (air discharge) and 8kV (contract discharge). The LX7201, LX7202 and LX7203 are ideal for use in USB hubs, peripherals and portable appliances.

ON Semiconductor™

Zener Regulators

Zener Voltage Regulators

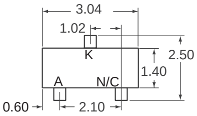

Zener Voltage	Test Current IZT (mA)	Zener Impedance ZZT @ IZT	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 3,000
2.4V	5	100	BZX84C2V4LT1OSCT-ND	1.40	9.10	15.75	38.00/M
2.4V	5	100	BZX84C2V4LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
2.7V	5	100	BZX84C2V7LT1G OSCT-ND◊	2.27	12.78	21.30	38.00/M
3V	5	95	BZX84C3V0LT1OSCT-ND	1.40	9.10	15.75	—
3V	5	95	BZX84C3V0LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
3.3V	5	95	BZX84C3V3ET1GOSCT-ND◊	1.66	10.79	18.68	39.00/M
3.3V	5	95	BZX84C3V3LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
3.6V	5	90	BZX84C3V6LT1OSCT-ND	1.40	9.10	15.75	—
3.6V	5	90	BZX84C3V6LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
3.9V	5	90	BZX84C3V9LT1OSCT-ND	1.40	9.10	15.75	38.00/M
3.9V	5	90	BZX84C3V9LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
4.3V	5	90	BZX84C4V3LT1OSCT-ND	1.40	9.10	15.75	38.00/M
4.3V	5	90	BZX84C4V3LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
4.7V	5	80	BZX84C4V7LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
5.1V	5	60	BZX84B5V1LT1OSCT-ND	1.53	9.95	17.21	36.00/M
5.1V	5	60	BZX84B5V1LT1GOSCT-ND◊	1.54	10.01	17.33	36.00/M
5.1V	5	60	BZX84C5V1LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
5.6V	5	40	BZX84B5V6LT1OSCT-ND	1.53	9.95	17.21	36.00/M
5.6V	5	40	BZX84B5V6LT1GOSCT-ND◊	1.54	10.01	17.33	36.00/M
5.6V	5	40	BZX84C5V6LT1OSCT-ND	1.55	10.08	17.44	—
5.6V	5	40	BZX84C5V6LT1GOSCT-ND◊	1.55	10.08	17.44	36.00/M
6.2V	5	10	BZX84C6V2LT1GOSCT-ND◊	1.55	10.08	17.44	36.00/M
6.8V	5	15	BZX84C6V8LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
7.5V	5	15	BZX84C7V5LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
8.2V	5	15	BZX84B8V2LT1OSCT-ND	1.53	9.95	17.21	36.00/M
8.2V	5	15	BZX84B8V2LT1GOSCT-ND◊	1.53	9.95	17.21	36.00/M
8.2V	5	15	BZX84C8V2LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
9.1V	5	15	BZX84C9V1LT1OSCT-ND	1.40	9.10	15.75	38.00/M
9.1V	5	15	BZX84C9V1LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
10V	5	20	BZX84C10LT1OSCT-ND	1.40	9.10	15.75	38.00/M
10V	5	20	BZX84C10LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
11V	5	20	BZX84C11LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
12V	5	25	BZX84C12LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
13V	5	30	BZX84C13LT1OSCT-ND	1.40	9.10	15.75	38.00/M
13V	5	30	BZX84C13LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
15V	5	30	BZX84C15LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
16V	5	40	BZX84C16LT1OSCT-ND	1.40	9.10	15.75	—
16V	5	40	BZX84C16LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
18V	5	45	BZX84C18LT1OSCT-ND	1.40	9.10	15.75	—
18V	5	45	BZX84C18LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
20V	5	55	BZX84C20LT1OSCT-ND	1.40	9.10	15.75	38.00/M
20V	5	55	BZX84C20LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
24V	5	70	BZX84C24LT1OSCT-ND	1.40	9.10	15.75	38.00/M
24V	5	70	BZX84C24LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
27V	2	80	BZX84C27LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
30V	2	80	BZX84C30LT1OSCT-ND	1.40	9.10	15.75	38.00/M
30V	2	80	BZX84C30LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
36V	2	90	BZX84C36LT1OSCT-ND	1.40	9.10	15.75	38.00/M
36V	2	90	BZX84C36LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
43V	2	150	BZX84C43LT1OSCT-ND	1.40	9.10	15.75	—
43V	2	150	BZX84C43LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
47V	2	170	BZX84C47LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M
75V	2	255	BZX84C75LT1OSCT-ND	1.40	9.10	15.75	—
75V	2	255	BZX84C75LT1GOSCT-ND◊	2.27	12.78	21.30	38.00/M

** For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***NEW!* RoHS Compliant**

3 Watt DO-41

Surmetic™ 30

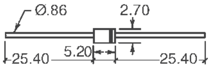

Zener Voltage	Test Current IZT (mA)	Zener Impedance ZZT @ IZT	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 6,000
15	25	9	1N5929BRLOSCT-ND	2.92	21.02	39.42	—
15	25	9	1N5929BRLGOSCT-ND◊	3.71	26.09	47.44	101.00/M
200	1.9	1200	1N5956BRLGOSCT-ND◊	3.71	26.09	47.44	101.00/M

** For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***NEW!* RoHS Compliant**

5 Watt

Surmetic™ 40

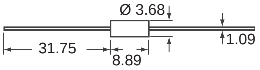

Zener Voltage	Test Current IZT (mA)	Zener Impedance ZZT @ IZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	250	Tape & Reel** Pricing 4,000
3.3	380	3	1N5333BRLOSCT-ND	—	3.66	27.42	54.84	—
3.3	380	3	1N5333BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
3.9	320	2	1N5335BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
4.3	290	2	1N5336BOS-ND†	.53	4.09	29.41	55.15	—

Zener Voltage	Test Current IZT (mA)	Zener Impedance ZZT @ IZT	Digi-Key Part No.	Cut Tape Pricing 1	10	100	250	Tape & Reel** Pricing 4,000
4.3	290	2	1N5336BGOS-ND†◊	.46	3.66	27.42	54.84	—
4.7	260	2	1N5337BGOS-ND†◊	.59	4.57	32.90	61.70	—
5.1	240	1.5	1N5338BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
5.6	220	1	1N5339BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
6	200	1	1N5340BGOS-ND†◊	.46	3.66	27.42	54.84	—
6.2	200	1	1N5341BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
6.8	175	1	1N5342BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
7.5	175	1.5	1N5343BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
8.2	150	1.5	1N5344BRLOSCT-ND	—	3.66	27.42	54.84	—
8.2	150	1.5	1N5344BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
9.1	150	2	1N5346BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
10	125	2	1N5347BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
11	125	2.5	1N5348BGOS-ND†◊	.46	3.66	27.42	54.84	—
12	100	2.5	1N5349BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
13	100	2.5	1N5350BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
14	100	2.5	1N5351BGOS-ND†◊	.46	3.66	27.42	54.84	—
15	75	2.5	1N5352BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
16	75	2.5	1N5353BRLOSCT-ND	—	4.09	29.41	55.15	—
16	75	2.5	1N5353BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
18	65	2.5	1N5355BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
20	65	3	1N5357BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
22	50	3.5	1N5358BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
24	50	3.5	1N5359BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
25	50	4	1N5360BOS-ND†	.53	4.09	29.41	55.15	—
25	50	4	1N5360BGOS-ND†◊	.46	3.66	27.42	54.84	—
27	50	5	1N5361BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
28	50	6	1N5362BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
33	40	10	1N5364BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
36	30	11	1N5365BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
39	30	14	1N5366BGOS-ND†◊	.46	3.66	27.42	54.84	—
43	30	20	1N5367BGOS-ND†◊	.46	3.66	27.42	54.84	—
47	25	25	1N5368BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
51	25	27	1N5369BRLGOSCT-ND†◊	—	3.66	27.42	54.84	137.00/M
56	20	35	1N5370BOS-ND†	.53	4.09	29.41	55.15	—
56	20	35	1N5370BGOS-ND†◊	.46	3.66	27.42	54.84	—
60	20	40	1N5371BOS-ND†	.46	3.66	27.42	54.84	—
60	20	40	1N5371BGOS-ND†◊	.46	3.66	27.42	54.84	—
68	20	44	1N5373BGOS-ND†◊	.46	3.66	27.42	54.84	—
75	20	45	1N5374BOS-ND†	.53	4.09	29.41	55.15	—
75	20	45	1N5374BGOS-ND†◊	.46	3.66	27.42	54.84	—
82	15	65	1N5375BOS-ND†	.53	4.09	29.41	55.15	—
82	15	65	1N5375BGOS-ND†◊	.46	3.66	27.42	54.84	—
100	12	90	1N5378BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
150	8	330	1N5383BRLOSCT-ND	—	3.66	27.42	54.84	139.00/M
150	8	330	1N5383BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M
180	5	430	1N5386BGOS-ND†◊	.46	3.66	27.42	54.84	—
200	5	480	1N5388BRLOSCT-ND	—	3.66	27.42	54.84	139.00/M
200	5	480	1N5388BRLGOSCT-ND◊	—	3.66	27.42	54.84	137.00/M

† Bulk only. ** For Tape and Reel part number, change CT-ND to TR-ND.
◊ ***NEW!* RoHS Compliant**

3.2 Watt SMT — Powermite Case 457

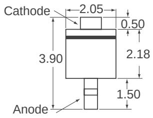

Zener Voltage	Test Current IZT (mA)	Zener Impedance	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 3,000
24	15.6	19	1PMT5934BT1OSCT-ND	4.27	30.74	57.65	145.00/M
27	13.9	23	1PMT5935BT1OSCT-ND	4.27	30.74	57.65	145.00/M

** For Tape and Reel part number, change CT-ND to TR-ND.

100mW SMT — SOD-523

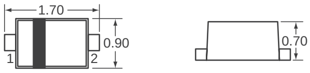

Zener Voltage	Test Current IZT (mA)	Zener Impedance	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel** Pricing 3,000
4.7	5	80	MM5Z4V7ST1OSCT-ND	2.93	19.05	32.96	—
4.7	5	80	MM5Z4V7ST1GOSCT-ND◊	2.97	19.31	33.41	70.00/M
5.1	5	60	MM5Z5V1ST1OSCT-ND	2.93	19.05	32.96	69.00/M
5.1	5	60	MM5Z5V1ST1GOSCT-ND◊	2.97	19.31	33.41	70.00/M
5.6	5	40	MM5Z5V6ST1OSCT-ND	2.93	19.05	32.96	69.00/M
5.6	5	40	MM5Z5V6ST1GOSCT-ND◊	2.97	19.31	33.41	70.00/M

** For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***NEW!* RoHS Compliant**

(Continued)

ON Semiconductor™

Zener Regulators *(Cont.)*

200mW SMT — SOD-323

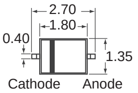

Zener Voltage	Test Current IZT (mA)	Zener Impedance	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 250	Tape & Reel** Pricing 3,000
4.7	5	80	MM3Z4V7T1OSCT-ND	2.00	11.25	18.75	34.00/M
4.7	5	80	MM3Z4V7ST1OSCT-ND	2.10	11.79	19.65	—
4.7	5	80	MM3Z4V7ST1GOSCT-ND◊	2.10	11.79	19.65	35.00/M
5.1	5	60	MM3Z5V1T1OSCT-ND	2.00	11.25	18.75	34.00/M
5.1	5	60	MM3Z5V1ST1GOSCT-ND◊	2.10	11.79	19.65	35.00/M
5.6	5	40	MM3Z5V6ST1OSCT-ND	2.10	11.79	19.65	—
5.6	5	40	MM3Z5V6ST1GOSCT-ND◊	2.10	11.79	19.65	35.00/M
6.2	5	10	MM3Z6V2T1OSCT-ND	1.23	8.00	13.84	33.00/M
10.0	5	20	MM3Z10VT1OSCT-ND	2.00	11.25	18.75	34.00/M
10.0	5	15	MM3Z10VST1GOSCT-ND	5.78	43.33	86.66	217.00/M
11.0	5	15	MM3Z11VST1GOSCT-ND	2.30	14.95	25.88	54.00/M
12.0	5	25	MM3Z12VST1OSCT-ND	.97	6.71	12.09	26.00/M
12.0	5	25	MM3Z12VST1GOSCT-ND◊	2.10	11.79	19.65	35.00/M
15.0	5	30	MM3Z15VT1OSCT-ND	2.00	11.25	18.75	34.00/M
18.0	5	45	MM3Z18VST1OSCT-ND	3.30	22.88	41.25	26.00/M
18.0	5	45	MM3Z18VST1GOSCT-ND◊	2.10	11.79	19.65	35.00/M

** For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***NEW!* RoHS Compliant**

500mW SMT — SOD-123

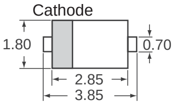

Zener Voltage	Test Current IZT (mA)	Zener Impedance	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 250	Tape & Reel** Pricing 3,000
2.4	.05	—	MMSZ4681T1OSCT-ND	2.30	14.95	25.88	—
2.7	20	30	MMSZ5223BT1OSCT-ND	2.30	14.95	25.88	—
4.3	20	22	MMSZ5229BT1OSCT-ND	2.30	14.95	25.88	54.00/M
5.1	.05	—	MMSZ4689T1GOSCT-ND◊	2.30	14.95	25.88	54.00/M
5.1	20	17	MMSZ5231BT1GOSCT-ND◊	2.30	14.95	25.88	54.00/M
5.6	.05	—	MMSZ4690ET1OSCT-ND	2.44	15.86	27.45	57.00/M
5.6	.05	—	MMSZ4690T1GOSCT-ND◊	2.30	14.95	25.88	54.00/M
5.6	20	11	MMSZ5232BT1GOSCT-ND◊	2.30	14.95	25.88	54.00/M
16	.05	—	MMSZ4703T1OSCT-ND	2.30	14.95	25.88	—
18	.05	—	MMSZ4705T1OSCT-ND	2.30	14.95	25.88	—
18	16.7	45	MMSZ18T1OSCT-ND	2.30	14.95	25.88	—
18	7.0	21	MMSZ5248BT1GOSCT-ND◊	2.30	14.95	25.88	54.00/M
19	.05	—	MMSZ4706T1OSCT-ND	2.30	14.95	25.88	—
27	4.6	41	MMSZ5254BT1GOSCT-ND◊	2.30	14.95	25.88	54.00/M
56	2.2	150	MMSZ5263BT1OSCT-ND	2.30	14.95	25.88	54.00/M
60	2.1	170	MMSZ5264BT1OSCT-ND	2.30	14.95	25.88	—
68	1.8	230	MMSZ5266BT1OSCT-ND	2.30	14.95	25.88	—

** For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***NEW!* RoHS Compliant**

225mW SMT — SOT-23

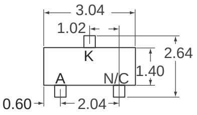

Zener Voltage	Test Current IZT (mA)	Zener Impedance	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 250	Tape & Reel** Pricing 3,000
2.4	20	30	MMBZ5221BLT1OSCT-ND	2.30	12.96	21.60	—
2.5	20	30	MMBZ5 222BLT1OSCT-ND	2.30	12.96	21.60	—
2.7	20	30	MMBZ5223BLT1OSCT-ND	2.30	12.96	21.60	—
3	20	29	MMBZ5225BLT1OSCT-ND	2.30	12.96	21.60	—
3.9	20	23	MMBZ5228BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
4.3	20	22	MMBZ5229BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
4.7	20	19	MMBZ5230BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
5.1	20	17	MMBZ5231BLT1OSCT-ND	2.30	12.96	21.60	—
5.1	20	17	MMBZ5231ELT1OSCT-ND	1.64	10.66	18.45	39.00/M
5.1	20	17	MMBZ5231ELT1GOSCT-ND◊	1.66	10.79	18.68	39.00/M
6	20	7	MMBZ5233BLT1OSCT-ND	2.30	12.96	21.60	—
7.5	20	6	MMBZ5236BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
8.7	20	8	MMBZ5238BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
9.1	20	10	MMBZ5239BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
11	20	22	MMBZ5241BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
14	9	15	MMBZ5244BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
16	7.8	17	MMBZ5246BLT1GOSCT-ND◊	2.30	12.96	21.60	39.00/M
18	7	21	MMBZ5248BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
19	6.6	23	MMBZ5249BLT1OSCT-ND	2.30	12.96	21.60	—
20	6.2	25	MMBZ5250BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
22	5.6	29	MMBZ5251BLT1OSCT-ND	2.30	12.96	21.60	—
24	5.2	33	MMBZ5252BLT1OSCT-ND	2.30	12.96	21.60	—
25	5	35	MMBZ5253BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
27	4.6	41	MMBZ5254BLT1OSCT-ND	2.30	12.96	21.60	—
28	4.5	44	MMBZ5255BLT1OSCT-ND	2.30	12.96	21.60	—
30	4.2	49	MMBZ5256BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
33	3.8	58	MMBZ5257BLT1OSCT-ND	2.30	12.96	21.60	—
36	3.4	70	MMBZ5258BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
39	3.2	80	MMBZ5259BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
47	2.7	105	MMBZ5261BLT1OSCT-ND	2.30	12.96	21.60	34.00/M
91	1.4	400	MMBZ5270BLT1OSCT-ND	2.30	12.96	21.60	34.00/M

** For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***NEW!* RoHS Compliant**

1.5W SMT — SMA

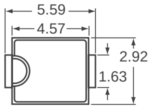

Zener Voltage	Test Current IZT (mA)	Zener Impedance (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 250	Tape & Reel** Pricing 5,000
3.3	113.6	10	1SMA5913BT3OSCT-ND	3.50	25.20	47.25	—
3.3	113.6	10	1SMA5913BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
3.6	104.2	9.0	1SMA5914BT3OSCT-ND	3.50	25.20	47.25	112.00/M
3.6	104.2	9.0	1SMA5914BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
4.7	79.8	5.0	1SMA5917BT3OSCT-ND	3.50	25.20	47.25	112.00/M
4.7	79.8	5.0	1SMA5917BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
5.1	73.5	4.0	1SMA5918BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
5.6	66.9	2.0	1SMA5919BT3OSCT-ND	3.50	25.20	47.25	—
5.6	66.9	2.0	1SMA5919BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
6.2	60.5	2.0	1SMA5920BT3OSCT-ND	3.50	25.20	47.25	—
6.2	60.5	2.0	1SMA5920BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
7.5	50	3.0	1SMA5922BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
8.2	45.7	3.5	1SMA5923BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
10	37.5	4.5	1SMA5925BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
12	31.2	6.5	1SMA5927BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
13	28.8	7.0	1SMA5928BT3OSCT-ND	3.50	25.20	47.25	—
13	28.8	7.0	1SMA5928BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
15	25	9.0	1SMA5929BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
15	50	10	BZG03C15OSCT-ND	3.50	25.20	47.25	112.00/M
15	50	10	BZG03C15GOSCT-ND◊	3.56	25.63	48.06	114.00/M
18	20.8	12	1SMA5931BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
24	15.6	19	1SMA5934BT3OSCT-ND	3.50	25.20	47.25	112.00/M
24	15.6	19	1SMA5934BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
27	13.9	23	1SMA5935BT3OSCT-ND	3.50	25.20	47.25	114.00/M
27	13.9	23	1SMA5935BT3GOSCT-ND◊	3.56	25.63	48.06	114.00/M
150	5	300	BZG03C150OSCT-ND	3.50	25.20	47.25	112.00/M
150	5	300	BZG03C150GOSCT-ND◊	3.56	25.63	48.06	114.00/M

** For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***NEW!* RoHS Compliant**

3W SMT — SMB

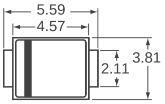

Zener Voltage	Test Current IZT (mA)	Zener Impedance (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 250	Tape & Reel** Pricing 2,500
3.3	113.6	10	1SMB5913BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
3.6	104.2	9	1SMB5914BT3OSCT-ND	3.76	27.04	50.69	—
3.6	104.2	9	1SMB5914BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
3.9	96.1	7.5	1SMB5915BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
4.3	87.2	6	1SMB5916BT3OSCT-ND	3.76	27.04	50.69	—
4.3	87.2	6	1SMB5916BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
4.7	79.8	5	1SMB5917BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
5.1	73.5	4	1SMB5918BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
5.6	66.9	2	1SMB5919BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
6.2	60.5	2	1SMB5920BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
6.8	55.1	2.5	1SMB5921BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
7.5	50	3	1SMB5922BT3OSCT-ND	3.76	27.04	50.69	—
7.5	50	3	1SMB5922BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
8.2	45.7	3.5	1SMB5923BT3OSCT-ND	3.76	27.04	50.69	—
8.2	45.7	3.5	1SMB5923BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
9.1	41.2	4	1SMB5924BT3OSCT-ND	3.76	27.04	50.69	128.00/M
9.1	41.2	4	1SMB5924BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
10	37.5	4.5	1SMB5925BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
12	31.2	6.5	1SMB5927BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
13	28.8	7	1SMB5928BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
15	25	9	1SMB5929BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
16	23.4	10	1SMB5930BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
18	20.8	12	1SMB5931BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
20	18.7	14	1SMB5932BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
24	15.6	19	1SMB5934BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
27	13.9	23	1SMB5935BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
30	12.5	28	1SMB5936BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
33	11.4	33	1SMB5937BT3OSCT-ND	3.76	27.04	50.69	—
33	11.4	33	1SMB5937BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
36	10.4	38	1SMB5938BT3OSCT-ND	3.76	27.04	50.69	128.00/M
36	10.4	38	1SMB5938BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
39	9.6	45	1SMB5939BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
47	8	67	1SMB5941BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
51	7.3	70	1SMB5942BT3OSCT-ND	3.76	27.04	50.69	—
51	7.3	70	1SMB5942BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M
200	1.9	1200	1SMB5956BT3GOSCT-ND◊	3.86	27.76	52.04	131.00/M

** For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***NEW!* RoHS Compliant**

Schottky Rectifiers

SMB

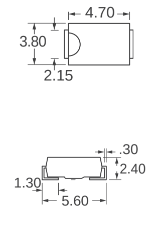

SMA

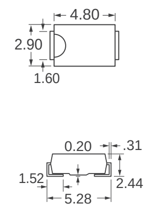

SMC

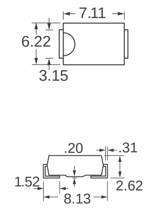

SOT-223

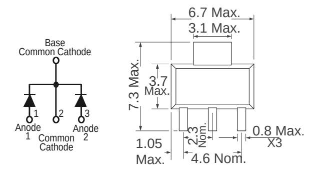

C-16

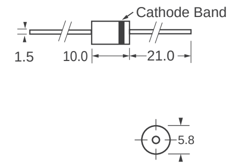

TO-220AC

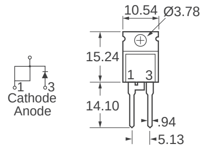

TO-220AB

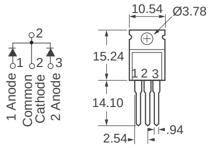

TO-244AB

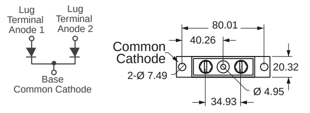

TO-244AB (ISO)

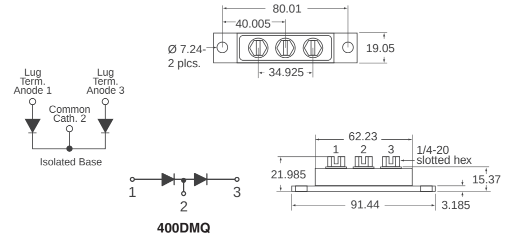

IF	VRRM	VF	IFSM(A) @	TJ Junction	Digi-Key	Price Each		
(A)	(V)	(V)	tp = 5μs Sine	Temp (°C)	Part No.	1	10	100
					SMB			
1	15	0.34	140	-55 ~ 150	10BQ015-ND	.25	.20	.15
1	15	0.34	140	-55 ~ 150	10BQ015PBFCT-ND†	.50	.30	.20
1	15	0.34	140	-55 ~ 150	10BQ015PBFTR-ND†	426.00/3,000		
1	15	0.42	230	-55 ~ 125	MBRS130CT-ND	.58	.34	.22
1	30	0.42	230	-55 ~ 125	MBRS130TR-ND	474.00/3,000		
1	30	0.30	230	-55 ~ 125	MBRS130LCT-ND	.74	.43	.29
1	30	0.30	230	-55 ~ 125	MBRS130LTR-ND	590.18/3,000		
1	30	0.30	360	-55 ~ 150	STPS1L30UIRCT-ND	.59	.34	.23
1	30	0.30	360	-55 ~ 150	STPS1L30UPBFCT-ND†	.53	.31	.21
1	30	0.30	360	-55 ~ 150	STPS1L30UPBFTR-ND†	448.05/3,000		
1	30	0.30	430	-55 ~ 150	10BQ030-ND	.55	.33	.21
1	30	0.30	430	-55 ~ 150	10BQ030PBFCT-ND†	.50	.30	.20
1	30	0.30	430	-55 ~ 150	10BQ030PBFTR-ND†	441.00/3,000		
1	40	0.53	430	-55 ~ 150	10BQ040-ND	.43	.26	.18
1	40	0.53	430	-55 ~ 150	10BQ040PBFCT-ND†	.46	.27	.18
1	40	0.53	430	-55 ~ 150	10BQ040PBFTR-ND†	405.00/3,000		
1	40	0.53	380	-55 ~ 150	MBRS140CT-ND	.45	.27	.18
1	40	0.53	380	-55 ~ 150	MBRS140TR-ND	366.00/3,000		
1	60	0.57	700	-55 ~ 150	10BQ060-ND	.24	.19	.14
1	60	0.57	700	-55 ~ 150	10BQ060PBFCT-ND†	.49	.29	.19
1	60	0.57	700	-55 ~ 150	10BQ060PBFTR-ND†	429.00/3,000		
1	90	0.63	870	-55 ~ 175	MBRS190CT-ND	.49	.29	.19
1	90	0.63	870	-55 ~ 175	MBRS190TR-ND	399.00/3,000		
1	100	0.78	780	-55 ~ 175	10BQ100-ND	.51	.31	.22
1	100	0.78	780	-55 ~ 175	10BQ100PBFCT-ND†	.44	.28	.21
1	100	0.78	780	-55 ~ 175	10BQ100PBFTR-ND†	483.00/3,000		
1	100	0.63	870	-55 ~ 175	MBRS1100CT-ND	.46	.27	.18
1	100	0.63	870	-55 ~ 175	MBRS1100TR-ND	378.00/3,000		
2	30	0.370	350	-55 ~ 150	20BQ030PBFCT-ND†	.84	.50	.33
2	30	0.370	350	-55 ~ 150	20BQ030PBFTR-ND†	738.00/3,000		
					SMA			
1.5	40	0.54	120	-55 ~ 150	10MQ040N-ND	.45	.27	.19
1.5	40	0.54	120	-55 ~ 150	10MQ040NPBFCT-ND†	.48	.29	.19
1.5	40	0.54	120	-55 ~ 150	10MQ040NPBFTR-ND†	1020.00/7,500		
3	40	0.42	330	-40 ~ 150	15MQ040N-ND	.93	.57	.41
3	40	0.42	330	-40 ~ 150	15MQ040NPBFCT-ND†	.82	.48	.32
3	40	0.42	330	-40 ~ 150	15MQ040NPBFTR-ND†	1740.00/7,500		
1	40	0.49	120	-55 ~ 150	MBRA140CT-ND	.45	.26	.17
1	40	0.49	120	-55 ~ 150	MBRA140TR-ND	825.00/7,500		
1.5	60	0.63	40	-55 ~ 150	10MQ060N-ND	.39	.23	.16
1.5	60	0.63	40	-55 ~ 150	10MQ060NPBFCT-ND†	.41	.24	.16
1.5	60	0.63	40	-55 ~ 150	10MQ060NPBFTR-ND†	870.00/7,500		
1.5	100	0.78	120	-55 ~ 150	10MQ100N-ND	.20	.16	.12
1.5	100	0.78	120	-55 ~ 150	10MQ100NPBFCT-ND†	.41	.24	.16
1.5	100	0.78	120	-55 ~ 150	10MQ100NPBFTR-ND†	870.00/7,500		
					SMC			
3	15	0.35	650	-55 ~ 100	30BQ015-ND	.75	.60	.43
3	15	0.35	650	-55 ~ 100	30BQ015PBFCT-ND†	1.04	.68	.53
3	15	0.35	650	-55 ~ 100	30BQ015PBFTR-ND†	1251.00/3,000		
3	40	0.51	2000	-55 ~ 150	30BQ040-ND	.50	.40	.29
3	40	0.51	2000	-55 ~ 150	30BQ040PBFCT-ND†	.79	.50	.37
3	40	0.51	2000	-55 ~ 150	30BQ040PBFTR-ND†	861.00/3,000		
3	40	0.43	1580	-55 ~ 150	MBRS340CT-ND	.88	.44	.35
3	40	0.43	1580	-55 ~ 150	MBRS340TR-ND	762.00/3,000		
3	60	0.58	1200	-55 ~ 150	30BQ060-ND	.50	.40	.29
3	60	0.58	1200	-55 ~ 150	30BQ060PBFCT-ND†	.79	.50	.37
3	60	0.58	1200	-55 ~ 150	30BQ060PBFTR-ND†	831.00/3,000		
3	60	0.61	790	-55 ~ 150	MBRS360CT-ND	1.48	.74	.59
3	60	0.61	790	-55 ~ 150	MBRS360TR-ND	1327.50/3,000		
3	100	0.79	2100	-55 ~ 175	30BQ100-ND	.75	.48	.36
3	100	0.79	2100	-55 ~ 175	30BQ100PBFCT-ND†	.80	.50	.37
3	100	0.79	2100	-55 ~ 175	30BQ100TR-ND	900.00/3,000		
3	100	0.79	2100	-55 ~ 175	30BQ100PBFTR-ND†	870.00/3,000		
					SOT-223			
2	45	0.54	390	-55 ~ 150	20CJQ045-ND	.53	.42	.30
2	60	0.56	385	-55 ~ 150	20CJQ060-ND	.95	.76	.57
2	100	0.56	385	-55 ~ 150	20CJQ100-ND	1.45	1.16	.87
					C-16			
3.3	40	0.55	470	-40 ~ 150	31DQ04-ND	1.03	.88	.61
3	40	0.6	430	-40 ~ 150	MBR340IR-ND	.52	.31	.21
3	50	0.73	460	-40 ~ 150	MBR350-ND	.81	.48	.33
3.3	50	0.58	340	-40 ~ 150	31DQ05-ND	.58	.46	.33
3	60	0.73	460	-40 ~ 150	MBR360-ND	.80	.47	.33
3.3	60	0.58	340	-40 ~ 150	31DQ06-ND	1.11	.95	.66
3.3	60	0.58	340	-40 ~ 150	31DQ06TR-ND	475.20/1,200		
3.3	90	0.85	210	-40 ~ 150	31DQ09-ND	.99	.84	.58
3.3	90	0.85	210	-40 ~ 150	31DQ09TR-ND	434.40/1,200		
3.3	100	0.85	210	-40 ~ 150	31DQ10-ND	.83	.51	.38
3.3	100	0.85	210	-40 ~ 150	31DQ10TR-ND	332.40/1,200		
					TO-220AC			
19	15	0.32	700	-55 ~ 100	19TQ015-ND	2.45	1.69	1.35
19	15	0.32	700	-55 ~ 100	19TQ015PBF-ND†	2.55	1.70	1.36
20	15	0.25	700	-55 ~ 125	20L15TPBF-ND†	1.83	1.18	.92
20	15	0.25	700	-55 ~ 125	STPS20L15DIR-ND	1.48	.85	.72
20	15	0.25	700	-55 ~ 125	STPS20L15DPBF-ND†	1.48	.95	.74
6	35	0.53	690	-55 ~ 175	6TQ035PBF-ND†	2.80	1.80	1.40
7.5	35	0.84	690	-65 ~ 150	MBR735PBF-ND†	1.08	.68	.50
10	35	0.49	1050	-55 ~ 175	10TQ035PBF-ND†	2.43	1.56	1.22
10	35	0.84	1080	-65 ~ 150	MBR1035IR-ND	1.17	.94	.75
10	35	0.84	1080	-65 ~ 150	MBR1035PBF-ND†	1.69	1.06	.79
15	35	0.50	990	-55 ~ 150	12TQ035-ND	1.93	1.54	1.16
15	35	0.50	990	-55 ~ 150	12TQ035PBF-ND†	2.70	1.74	1.35
16	35	0.63	1060	-65 ~ 150	MBR1635PBF-ND†	2.14	1.38	1.07
18	35	0.6	1800	-55 ~ 175	18TQ035-ND	2.00	1.60	1.14
18	35	0.6	1800	-55 ~ 175	18TQ035PBF-ND†	2.80	1.80	1.40
20	35	0.51	1800	-55 ~ 150	20TQ035PBF-ND†	2.94	1.89	1.47
6	40	0.53	690	-55 ~ 175	6TQ040-ND	2.08	1.66	1.25
6	40	0.53	690	-55 ~ 175	6TQ040PBF-ND†	2.91	1.87	1.46
10	40	0.49	1050	-55 ~ 175	10TQ040PBF-ND†	2.55	1.64	1.28

† ***RoHS Compliant***

(Continued)

TO-247AC

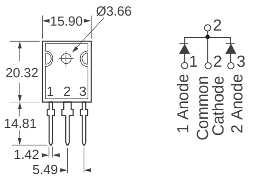

TO-249AA

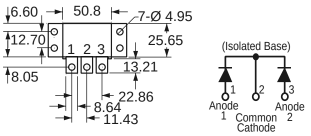

TO-262

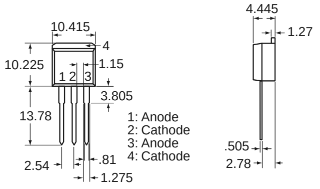

DO-5

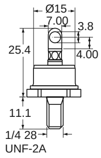

Cathode to stud

DO-41/DO-204AL

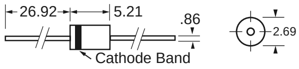

D-60

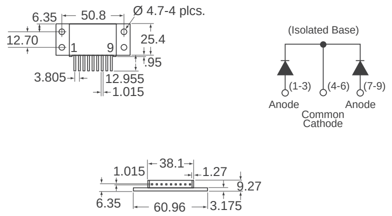

D61-6

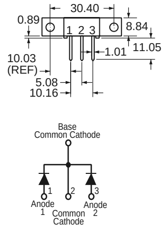

D61-8

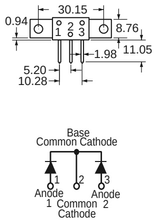

DO-204AR

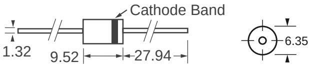

IF	VRRM	VF	IFSM(A) @	TJ Junction	Digi-Key	Price Each		
(A)	(V)	(V)	tp = 5µs Sine	Temp (°C)	Part No.	1	10	100
15	40	0.50	990	-55 ~ 150	12TQ040PBF-ND†	2.87	1.85	1.44
18	40	0.53	1800	-55 ~ 175	18TQ040PBF-ND†	2.68	1.73	1.34
20	40	0.51	1800	-55 ~ 150	20TQ040PBF-ND†	3.12	2.01	1.56
7.5	45	0.57	690	-65 ~ 150	MBR745IR-ND	1.09	.67	.49
7.5	45	0.57	690	-65 ~ 150	MBR745PBF-ND†	1.08	.68	.50
10	45	0.57	1050	-65 ~ 150	MBR1045PBF-ND†	1.69	1.06	.79
15	45	0.50	990	-55 ~ 150	12TQ045PBF-ND†	3.01	1.94	1.51
16	45	0.57	1800	-65 ~ 150	MBR1645PBF-ND†	1.75	1.13	.88
6	45	0.53	690	-55 ~ 175	6TQ045PBF-ND†	3.12	2.01	1.56
10	45	0.57	1050	-55 ~ 175	10TQ045PBF-ND†	1.39	.90	.70
18	45	0.6	1800	-55 ~ 175	18TQ045PBF-ND†	2.98	1.92	1.49
20	45	0.57	1800	-65 ~ 150	20TQ045PBF-ND†	2.63	1.69	1.32
8	60	0.72	850	-55 ~ 175	8TQ060PBF-ND†	1.40	.90	.70
15	60	0.56	1000	-55 ~ 150	15TQ060PBF-ND†	3.33	2.14	1.67
8	80	0.72	850	-55 ~ 175	8TQ080PBF-ND†	3.25	2.17	1.74
8	100	0.58	850	-55 ~ 175	8TQ100PBF-ND†	2.78	1.86	1.49
					TO-220AB			
40	15	0.41	700	-55 ~ 125	40L15CTPBF-ND†	3.68	2.37	1.84
40	15	0.25	700	-55 ~ 125	STPS40L15CTPBF-ND†	3.27	2.11	1.64
40	20	0.34	1000	-55 ~ 150	47CTQ020PBF-ND†	3.34	2.15	1.67
30	25	0.40	900	-55 ~ 150	32CTQ025-ND	2.63	2.10	1.58
30	25	0.40	900	-55 ~ 150	32CTQ025PBF-ND†	3.15	2.10	1.68
30	30	0.37	—	-55 ~ 150	STPS30L30CTIR-ND	1.95	1.11	.91
30	30	0.37	—	-55 ~ 150	STPS30L30CTPBF-ND†	2.04	1.32	1.03
30	30	0.40	900	-55 ~ 150	32CTQ030-ND	3.21	2.20	1.74
30	30	0.40	900	-55 ~ 150	32CTQ030PBF-ND†	3.82	2.46	1.91
30	30	0.37	1450	-55 ~ 150	30L30CTPBF-ND†	2.93	1.89	1.47
40	30	0.48	1100	-55 ~ 150	42CTQ030-ND	3.20	2.56	2.05
40	30	0.48	1100	-55 ~ 150	42CTQ030PBF-ND†	3.94	2.54	1.98
60	30	0.44	1500	-65 ~ 150	62CTQ030PBF-ND†	3.75	2.50	2.00
15	35	0.72	690	-65 ~ 150	MBR1535CTPBF-ND†	1.78	1.15	.89
20	35	0.57	1060	-65 ~ 150	MBR2035CT-ND	1.37	1.10	.83
20	35	0.57	1060	-65 ~ 150	MBR2035CTPBF-ND†	1.92	1.24	.97
12	35	0.53	690	-55 ~ 175	12CTQ035PBF-ND†	2.30	1.48	1.15
15	35	0.51	810	-55 ~ 150	15CTQ035-ND	1.83	1.46	1.10
15	35	0.51	810	-55 ~ 150	15CTQ035PBF-ND†	2.56	1.65	1.28
20	35	0.57	1060	-55 ~ 175	20CTQ035-ND	2.25	1.80	1.35
20	35	0.57	1060	-55 ~ 175	20CTQ035PBF-ND†	3.15	2.03	1.58
30	35	0.50	990	-55 ~ 150	25CTQ035PBF-ND†	3.30	2.20	1.76
30	35	0.62	1060	-55 ~ 175	30CTQ035PBF-ND†	2.02	1.31	1.02
30	35	0.73	1060	-65 ~ 150	MBR2535CTPBF-ND†	2.14	1.38	1.07
15	40	0.51	810	-55 ~ 150	15CTQ040-ND	1.88	1.50	1.13
15	40	0.51	810	-55 ~ 150	15CTQ040PBF-ND†	2.63	1.69	1.32
12	40	0.53	690	-55 ~ 175	12CTQ040PBF-ND†	2.36	1.52	1.19
20	40	0.57	1060	-55 ~ 175	20CTQ040-ND	2.25	1.80	1.35
20	40	0.57	1060	-55 ~ 175	20CTQ040PBF-ND†	3.16	2.11	1.69
30	40	0.56	1060	-55 ~ 175	30CTQ040-ND	2.35	1.88	1.41
30	40	0.56	1060	-55 ~ 175	30CTQ040PBF-ND†	3.29	2.12	1.65
30	40	0.50	990	-55 ~ 150	25CTQ040PBF-ND†	3.39	2.26	1.81
12	45	0.53	690	-55 ~ 175	12CTQ045PBF-ND†	2.73	1.76	1.37
15	45	0.51	810	-55 ~ 150	15CTQ045-ND	1.76	1.41	1.06
15	45	0.51	810	-55 ~ 150	15CTQ045PBF-ND†	2.46	1.58	1.23
40	45	0.6	900	-65 ~ 150	MBR4045CTPBF-ND†	2.05	1.32	1.03
15	45	0.57	690	-65 ~ 150	MBR1545CTPBF-ND†	1.78	1.15	.89
20	45	0.57	1060	-65 ~ 150	MBR2045CTIR-ND	1.46	1.32	1.19
20	45	0.57	1060	-65 ~ 150	MBR2045CTPBF-ND†	2.14	1.38	1.07
30	45	0.73	1060	-65 ~ 150	MBR2545CTIR-ND	1.46	1.32	1.19
30	45	0.73	1060	-65 ~ 150	MBR2545CTPBF-ND†	2.14	1.38	1.07
30	45	0.76	1020	-65 ~ 150	MBR3045CT-ND	2.60	2.08	1.71
30	45	0.76	1020	-65 ~ 150	MBR3045CTPBF-ND†	3.64	2.34	1.82
20	45	0.64	1060	-55 ~ 175	20CTQ045PBF-ND†	2.28	1.47	1.14
30	45	0.50	990	-55 ~ 150	25CTQ045PBF-ND†	1.73	1.16	.93
30	45	0.62	1060	-55 ~ 175	30CTQ045-ND	2.79	2.23	1.65
30	45	0.62	1060	-55 ~ 175	30CTQ045PBF-ND†	3.90	2.51	1.95
40	45	0.53	1240	-55 ~ 150	40CTQ045PBF-ND†	4.03	2.59	2.02
60	45	0.53	1500	-65 ~ 150	60CTQ045PBF-ND†	5.22	3.48	2.79
60	45	0.57	2600	-65 ~ 175	61CTQ045PBF-ND†	4.83	3.22	2.58
30	50	0.56	1000	-55 ~ 150	30CTQ050-ND	2.85	2.28	1.71
30	50	0.56	1000	-55 ~ 150	30CTQ050PBF-ND†	3.42	2.28	1.83
16	60	0.58	850	-55 ~ 175	16CTQ060PBF-ND†	2.59	1.67	1.30
30	60	0.62	1060	-55 ~ 150	30CTQ060PBF-ND†	2.79	1.80	1.40
40	60	0.75	1000	-55 ~ 150	48CTQ060-ND	2.03	1.62	1.17
40	60	0.75	1000	-55 ~ 150	48CTQ060PBF-ND†	2.84	1.83	1.42
16	80	0.72	850	-55 ~ 175	16CTQ080PBF-ND†	4.23	2.82	2.26
30	80	0.67	850	-55 ~ 175	30CTQ080PBF-ND†	2.10	1.35	1.05
20	90	0.85	850	-65 ~ 150	MBR2090CTIR-ND	1.86	1.49	1.19
20	90	0.85	850	-65 ~ 150	MBR2090CTPBF-ND†	2.14	1.38	1.07
40	100	0.81	850	-55 ~ 175	43CTQ100PBF-ND†	3.48	2.24	1.74
20	100	0.7	850	-65 ~ 150	MBR20100CTPBF-ND†	2.14	1.38	1.07
16	100	0.72	850	-55 ~ 175	16CTQ100PBF-ND†	5.46	3.51	2.73
30	100	0.67	850	-55 ~ 175	30CTQ100PBF-ND†	2.21	1.42	1.11
60	100	0.69	1500	-65 ~ 175	63CTQ100PBF-ND†	6.56	4.37	3.50
10	150	0.73	620	-55 ~ 175	10CTQ150PBF-ND†	4.27	2.75	2.14
20	150	0.66	1030	-55 ~ 175	20CTQ150PBF-ND†	1.82	1.17	.91
40	150	0.71	150	-55 ~ 175	40CTQ150PBF-ND†	2.48	1.60	1.24
60	150	0.69	710	-55 ~ 175	60CTQ150PBF-ND†	4.20	2.80	2.24
					TO-244AB			
220	15	0.32	10800	-55 ~ 100	225CNQ015-ND	62.50	50.00	37.50
400	15	0.47	4000	-55 ~ 175	445CNQ015-ND	67.50	54.00	41.85
220	25	0.40	22500	-55 ~ 150	220CNQ025-ND	31.07	24.86	18.65
220	30	0.40	22500	-55 ~ 150	220CNQ030-ND	62.50	50.00	37.50
440	30	0.41	27000	-55 ~ 150	440CNQ030-ND	60.00	48.00	36.00
200	35	0.49	26000	-55 ~ 150	200CNQ035-ND	62.50	50.00	37.50
200	35	0.58	16000	-55 ~ 175	201CNQ035-ND	63.02	50.42	37.82
300	35	0.59	16000	-55 ~ 175	301CNQ035-ND	62.50	50.00	37.50
400	35	0.52	29000	-55 ~ 150	400CNQ035-ND	70.00	56.00	42.00
400	35	0.56	25000	-55 ~ 175	401CNQ035-ND	47.88	38.31	28.73
200	40	0.49	26000	-55 ~ 150	200CNQ040-ND	62.50	50.00	37.50
200	40	0.58	16000	-55 ~ 175	201CNQ040-ND	63.02	50.42	37.82
300	40	0.62	600	-55 ~ 175	300CNQ040-ND	34.31	27.45	21.00
300	40	0.59	16000	-55 ~ 175	301CNQ040-ND	62.50	50.00	37.50
200	45	0.49	26000	-55 ~ 150	200CNQ045-ND	60.37	48.30	36.23
200	45	0.58	16000	-55 ~ 175	201CNQ045-ND	62.50	50.00	37.50
300	45	0.62	600	-55 ~ 175	300CNQ045-ND	62.50	50.00	38.25
400	45	0.52	29000	-55 ~ 150	400CNQ045-ND	49.63	39.71	29.78
200	50	0.58	16000	-55 ~ 175	201CNQ050-ND	63.02	50.42	37.82

† ***RoHS Compliant***

(Continued)

Schottky Rectifiers *(Cont.)*

D61-8-SL

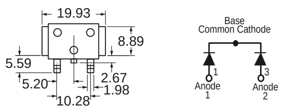

D61-8-SM

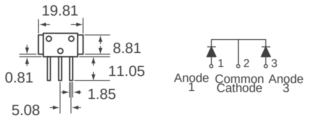

D-PAK

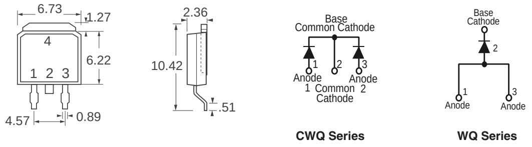

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
300	50	0.59	16000	-55 ~ 175	301CNQ050-ND	62.50	50.00	37.50
400	60	0.59	25500	-55 ~ 150	408CNQ060-ND	66.00	51.00	44.10
200	80	0.70	16000	-55 ~ 175	203CNQ080-ND	62.50	50.00	37.50
300	80	0.72	22000	-55 ~ 175	303CNQ080-ND	44.44	35.55	26.67
400	80	0.69	25500	-55 ~ 175	403CNQ080-ND	75.00	60.00	45.00
300	100	0.72	22000	-55 ~ 175	303CNQ100-ND	70.00	56.00	42.00
200	135	0.71	10000	-55 ~ 175	209CNQ135-ND	54.37	43.50	38.07
400	135	0.72	20000	-55 ~ 175	409CNQ135-ND	41.16	34.27	30.04
400	150	0.72	20000	-55 ~ 175	409CNQ150-ND	56.14	44.91	33.69
TO-244AB (ISO)								
200	45	0.58	16000	-55 ~ 175	201CMQ045PBF-ND†	44.06	35.25	26.44
400	45	0.56	25000	-55 ~ 175	401CMQ045-ND	62.82	50.26	37.70
400	60	0.59	25500	-55 ~ 150	408CMQ060-ND	35.45	29.55	25.93
200	100	0.70	16000	-55 ~ 175	203DMQ100PBF-ND†	45.56	36.45	27.34
TO-247AC								
40	15	0.25	700	-55 ~ 125	40L15CW-ND	3.50	2.80	1.75
40	15	0.25	700	-55 ~ 125	40L15CWPBF-ND†	4.20	2.80	2.24
40	15	0.26	700	-55 ~ 125	MBR40L15CW-ND	4.16	2.91	2.21
40	15	0.26	700	-55 ~ 125	MBR40L15CWPBF-ND†	3.01	2.01	1.61
40	15	0.25	700	-55 ~ 125	STPS40L15CWIR-ND	2.60	1.81	1.40
40	15	0.25	700	-55 ~ 125	STPS40L15CWPBF-ND†	2.55	1.70	1.36
65	15	0.46	1500	-55 ~ 125	65PQ015PBF-ND†	3.03	2.02	1.62
80	20	0.32	2200	-55 ~ 150	80CPQ020PBF-ND†	4.41	2.94	2.36
50	30	0.38	2180	-55 ~ 150	52CPQ030PBF-ND†	11.25	8.33	6.75
70	30	0.51	2180	-55 ~ 150	72CPQ030PBF-ND†	4.00	2.96	2.40
30	35	0.50	1020	-55 ~ 150	30CPQ035-ND	3.24	2.60	1.95
30	35	0.50	1020	-55 ~ 150	30CPQ035PBF-ND†	3.89	2.60	2.08
30	35	0.60	1020	-65 ~ 150	MBR3035WTPBF-ND†	2.66	1.71	1.33
40	35	0.43	3500	-55 ~ 150	40CPQ035-ND	5.00	4.00	3.00
40	35	0.43	3500	-55 ~ 150	40CPQ035PBF-ND†	6.00	4.00	3.20
30	40	0.50	1020	-55 ~ 150	30CPQ040-ND	4.22	3.38	2.54
30	40	0.50	1020	-55 ~ 150	30CPQ040PBF-ND†	5.06	3.38	2.70
40	40	0.43	3500	-55 ~ 150	40CPQ040PBF-ND†	6.46	4.78	3.88
40	40	0.42	1240	-55 ~ 150	40L40CWPBF-ND†	4.50	3.00	2.40
40	40	0.43	3500	-55 ~ 150	STPS40L40CWIR-ND	3.75	2.50	2.00
40	40	0.43	3500	-55 ~ 150	STPS40L40CWPBF-ND†	3.73	2.49	2.00
40	45	0.42	1240	-55 ~ 150	STPS40L45CWIR-ND	3.94	2.75	2.09
40	45	0.42	1240	-55 ~ 150	STPS40L45CWPBF-ND†	3.04	2.03	1.63
30	45	0.60	1020	-65 ~ 150	MBR3045WT-ND	1.46	1.37	1.23
30	45	0.60	1020	-65 ~ 150	MBR3045WTPBF-ND†	2.14	1.38	1.07
40	45	0.42	1240	-55 ~ 150	40L45CW-ND	2.41	1.93	1.45
40	45	0.42	1240	-55 ~ 150	40L45CWPBF-ND†	2.89	1.93	1.55
40	45	0.59	1020	-55 ~ 150	MBR4045WT-ND	1.95	1.56	1.25
40	45	0.59	1020	-55 ~ 150	MBR4045WTPBF-ND†	2.16	1.40	1.09
60	45	0.69	2900	-55 ~ 150	MBR6045WTIR-ND	2.63	1.76	1.37
60	45	0.69	2900	-55 ~ 150	MBR6045WTPBF-ND†	2.50	1.67	1.34
30	45	0.50	1020	-55 ~ 150	30CPQ045-ND	5.05	3.58	2.95
30	45	0.50	1020	-55 ~ 150	30CPQ045PBF-ND†	6.31	4.21	3.37
40	45	0.43	3500	-55 ~ 150	40CPQ045-ND	5.28	3.39	3.15
40	45	0.43	3500	-55 ~ 150	40CPQ045PBF-ND†	5.50	4.07	3.30
30	50	0.50	1020	-55 ~ 150	30CPQ050-ND	3.88	3.10	2.33
30	50	0.50	1020	-55 ~ 150	30CPQ050PBF-ND†	4.65	3.10	2.48
40	50	0.49	3200	-55 ~ 150	40CPQ050PBF-ND†	7.08	5.24	4.25
40	60	0.77	3200	-55 ~ 150	MBR4060WT-ND	3.41	2.74	2.19
40	60	0.77	3200	-55 ~ 150	MBR4060WTPBF-ND†	3.36	2.24	1.80
30	60	0.50	1020	-55 ~ 150	30CPQ060PBF-ND†	4.02	2.68	2.15
40	60	0.49	3200	-55 ~ 150	40CPQ060PBF-ND†	2.80	2.08	1.68
30	60	0.56	1020	-55 ~ 150	STPS30L60CWIR-ND	2.21	1.54	1.17
30	60	0.56	1020	-55 ~ 150	STPS30L60CWPBF-ND†	2.45	1.58	1.23
30	80	0.67	920	-55 ~ 175	30CPQ080-ND	5.63	4.50	3.38
30	80	0.67	920	-55 ~ 175	30CPQ080PBF-ND†	7.88	5.07	3.94
40	80	0.61	2950	-55 ~ 175	40CPQ080PBF-ND†	10.59	7.06	5.65
30	90	0.67	920	-55 ~ 175	30CPQ090-ND	3.50	2.80	2.10
30	90	0.67	920	-55 ~ 175	30CPQ090PBF-ND†	4.20	2.80	2.24
30	100	0.67	920	-55 ~ 175	30CPQ100-ND	6.68	4.87	4.00
30	100	0.67	920	-55 ~ 175	30CPQ100PBF-ND†	9.42	6.06	4.71
40	100	0.77	2950	-55 ~ 175	40CPQ100PBF-ND†	5.82	3.88	3.11
60	100	0.64	2200	-55 ~ 175	63CPQ100PBF-ND†	4.89	3.26	2.61
30	140	0.67	920	-55 ~ 175	30CPQ140PBF-ND†	6.43	4.76	3.86
30	150	1	1000	-55 ~ 175	30CPQ150PBF-ND†	6.17	4.57	3.70
60	150	0.67	2300	-55 ~ 175	60CPQ150PBF-ND†	5.77	3.85	3.08
80	150	0.71	1930	-55 ~ 175	80CPQ150PBF-ND†	7.35	5.44	4.41
TO-249AA								
160	30	0.46	7900	-55 ~ 150	162CNQ030-ND	62.50	50.00	37.50
300	30	0.56	10000	-55 ~ 150	322CNQ030-ND	62.50	50.00	37.50
160	34	0.60	6400	-55 ~ 150	160CMQ035-ND	62.50	50.00	37.50
160	35	0.63	11500	-55 ~ 175	161CMQ035-ND	62.50	50.00	37.50
160	40	0.60	6400	-55 ~ 150	160CMQ040-ND	62.50	50.00	37.50
160	40	0.63	11500	-55 ~ 175	161CMQ040-ND	62.50	50.00	37.50
160	45	0.60	6400	-55 ~ 150	160CNQ045-ND	62.50	50.00	37.50
160	45	0.63	11500	-55 ~ 175	161CNQ045-ND	62.50	50.00	37.50
160	80	0.80	9000	-55 ~ 175	163CMQ080-ND	62.50	50.00	37.50
160	100	0.80	9000	-55 ~ 175	163CNQ100-ND	62.50	50.00	37.50
160	100	0.98	9000	-55 ~ 175	163CMQ100-ND	62.50	50.00	35.72
TO-262								
40	15	0.25	700	-55 ~ 125	40L15CT-1PBF-ND†	2.83	1.89	1.51
40	20	0.34	1000	-55 ~ 150	47CTQ020-1-ND	2.70	2.16	1.62
30	30	0.40	900	-55 ~ 150	32CTQ030-1PBF-ND†	3.73	2.49	1.99
40	30	0.38	1100	-55 ~ 150	42CTQ030-1-ND	3.38	2.70	2.03
30	35	0.73	1060	-65 ~ 150	MBR2535CT-1-ND	1.96	1.57	1.18
15	35	0.57	690	-65 ~ 150	MBR1535CT-1-ND	2.40	1.44	1.10
20	45	0.57	1060	-55 ~ 175	20CTQ045-1-ND	2.92	1.66	1.35
30	45	0.56	1060	-55 ~ 175	30CTQ045-1-ND	2.08	1.18	.96
30	45	0.56	1060	-55 ~ 175	30CTQ045-1PBF-ND†	1.86	1.25	1.00
40	45	0.48	1240	-55 ~ 150	40CTQ045-1-ND	2.51	1.76	1.34
40	45	0.48	1240	-55 ~ 150	40CTQ045-1PBF-ND†	2.39	1.60	1.28
15	45	0.84	690	-65 ~ 150	MBR1545CT-1-ND	1.47	1.18	.89
20	45	0.57	1060	-65 ~ 150	MBR2045CT-1-ND	1.58	1.26	.95
20	45	0.57	1060	-65 ~ 150	MBR2045CT-1PBF-ND†	3.07	2.05	1.64
30	45	0.73	1060	-65 ~ 150	MBR2545CT-1-ND	1.51	1.21	.91
30	45	0.73	1060	-65 ~ 150	MBR2545CT-1PBF-ND†	1.81	1.21	.97
30	45	0.6	1020	-65 ~ 150	MBR3045CT-1-ND	2.68	2.14	1.61
30	45	0.6	1020	-65 ~ 150	MBR3045CT-1PBF-ND†	3.35	2.24	1.79
40	45	0.6	900	-65 ~ 150	MBR4045CT-1-ND	1.53	1.23	.92
40	45	0.6	900	-65 ~ 150	MBR4045CT-1PBF-ND†	1.84	1.23	.98
30	60	0.56	1000	-55 ~ 150	30CTQ060-1PBF-ND†	1.84	1.23	.98
40	60	0.58	1000	-55 ~ 150	48CTQ060-1-ND	3.03	2.42	1.82
40	60	0.58	1000	-55 ~ 150	48CTQ060-1PBF-ND†	4.94	3.30	2.64
20	80	0.70	850	-65 ~ 150	MBR2080CT-1-ND	1.58	1.26	.95
30	80	0.67	850	-55 ~ 175	30CTQ080-1PBF-ND†	3.81	2.55	2.04
20	90	0.70	850	-65 ~ 150	MBR2090CT-1-ND	1.63	1.30	.98
16	100	0.58	850	-55 ~ 175	16CTQ100-1PBF-ND†	1.86	1.25	1.00
20	100	0.70	850	-65 ~ 150	MBR20100CT-1PBF-ND†	2.12	1.42	1.13
40	100	0.67	850	-55 ~ 175	43CTQ100-1PBF-ND†	3.32	2.22	1.78
10	150	0.73	620	-55 ~ 175	10CTQ150-1-ND	1.05	.84	.63
DO-5								
50	40	0.86	800	-65 ~ 125	1N6098-ND	8.60	6.20	5.16
75	35	0.63	9000	-65 ~ 175	75HQ035-ND	9.45	7.56	5.67
60	35	0.58	10800	-65 ~ 150	51HQ035-ND	9.34	7.47	5.61
75	35	0.60	1000	-65 ~ 150	MBR7535-ND	9.34	7.47	5.61
60	60	0.70	8400	-65 ~ 175	60HQ060-ND	9.45	7.56	5.67
DO-41/DO-204AL								
1	30	0.55	225	-40 ~ 150	1N5818IR-ND	.67	.38	.23
1.1	30	0.55	225	-40 ~ 150	11DQ03-ND	.24	.21	.14
1.1	30	0.55	225	-40 ~ 150	11DQ03TR-ND	425.00/5,000		
3.3	30	0.55	470	-40 ~ 150	31DQ03-ND	.68	.58	.40
1	30	0.55	225	-40 ~ 150	1N5819IR-ND	.54	.32	.21
1.1	40	0.55	225	-40 ~ 150	11DQ04-ND	.33	.19	.13
1.1	40	0.55	225	-40 ~ 150	11DQ04TR-ND	675.00/5,000		
1	50	0.65	150	-40 ~ 150	MBR150-ND	.49	.28	.17
1.1	50	0.58	150	-40 ~ 150	11DQ05-ND	.28	.22	.16
1.1	50	0.58	150	-40 ~ 150	11DQ05TR-ND	780.00/5,000		
1	60	0.65	150	-40 ~ 150	MBR160-ND	.49	.28	.17
1.1	60	0.58	150	-40 ~ 150	11DQ06-ND	.42	.25	.17
1.1	60	0.58	150	-40 ~ 150	11DQ06TR-ND	590.00/5,000		
1.1	90	0.85	85	-40 ~ 150	11DQ09-ND	.46	.39	.27
1.1	90	0.85	85	-40 ~ 150	11DQ09TR-ND	810.00/5,000		
1	100	0.68	200	-40 ~ 150	MBR1100-ND	.40	.23	.15
1.1	100	0.85	85	-40 ~ 150	11DQ10-ND	.30	.24	.17

† ***RoHS Compliant***

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D-2PAK

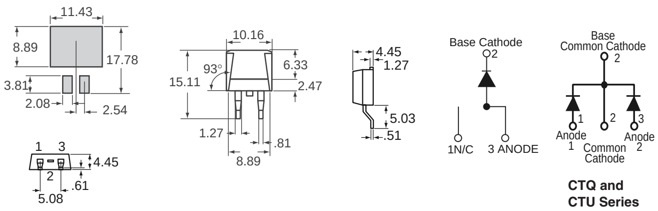

CTQ and CTU Series

HALF-PAK/D-67

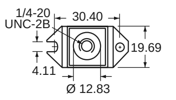

Base Cathode

I-PAK

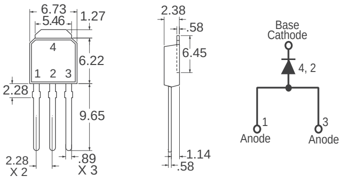

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each		
						1	10	100
					DO-204AR			
9	15	0.31	2900	-55 ~ 100	95SQ015-ND	3.47	2.39	1.90
9	15	0.31	2900	-55 ~ 100	95SQ015TR-ND	2430.00/1,500		
8	30	0.44	2400	-55 ~ 175	80SQ030-ND	1.48	1.18	.89
9	30	0.42	2150	-55 ~ 150	90SQ030-ND	1.55	1.24	.93
8	35	0.53	2400	-55 ~ 175	80SQ035-ND	1.50	1.20	.86
8	35	0.53	2400	-55 ~ 175	80SQ035PBF-ND†	1.50	1.20	.86
8	35	0.53	2400	-55 ~ 175	80SQ035TR-ND	1215.00/1,500		
9	35	0.42	2150	-55 ~ 150	90SQ035-ND	1.42	1.14	.86
8	40	0.53	2400	-55 ~ 175	80SQ040-ND	1.84	1.47	1.06
9	40	0.48	2150	-55 ~ 150	90SQ040-ND	1.60	1.28	.91
8	45	0.53	2400	-55 ~ 175	80SQ045-ND	1.87	1.24	.96
8	45	0.53	2400	-55 ~ 175	80SQ045TR-ND	1479.00/1,500		
9	45	0.48	2150	-55 ~ 150	90SQ045-ND	1.46	1.17	.84
9	45	0.48	2150	-55 ~ 150	90SQ045TR-ND	1377.00/1,500		
5	60	0.65	225	-65 ~ 150	50SQ060-ND	1.90	1.52	1.14
5	80	0.66	1900	-55 ~ 175	50SQ080-ND	2.00	1.60	1.14
5	100	0.52	1900	-55 ~ 175	50SQ100-ND	1.92	1.24	1.15
5	100	0.52	1900	-55 ~ 175	50SQ100TR-ND	1803.00/1,500		
					D-60			
150	15	0.80	—	-55 ~ 175	155CMQ015-ND	62.50	50.00	40.00
150	30	0.65	9200	-55 ~ 175	152CMQ030-ND	29.59	23.67	17.76
150	35	0.60	6600	-55 ~ 150	150CMQ035-ND	62.50	50.00	37.50
150	35	0.65	9200	-55 ~ 175	151CMQ035-ND	62.50	50.00	37.50
150	40	0.60	6600	-55 ~ 150	150CMQ040-ND	62.50	50.00	37.50
150	40	0.65	9200	-55 ~ 175	151CMQ040-ND	62.50	50.00	37.50
150	45	0.60	6600	-55 ~ 150	150CMQ045-ND	62.50	50.00	37.50
150	45	0.65	9200	-55 ~ 175	151CMQ045-ND	62.50	50.00	37.50
150	45	0.60	6600	-55 ~ 150	150CNQ045-ND	26.87	21.50	16.12
150	80	0.80	7000	-55 ~ 175	153CMQ080-ND	71.33	57.06	42.80
					D61-6			
60	30	0.46	4600	-55 ~ 150	62CNQ030-ND	16.50	13.20	9.43
					D61-8			
80	15	0.36	5200	-55 ~ 100	85CNQ015APBF-ND†	15.80	12.29	10.18
110	15	0.33	5050	-55 ~ 125	115CNQ015APBF-ND†	15.03	11.70	9.69
80	20	0.32	6000	-55 ~ 150	87CNQ020A-ND	14.23	11.00	9.52
80	20	0.32	6000	-55 ~ 150	87CNQ020APBF-ND†	16.66	12.96	10.74
80	30	0.37	5100	-55 ~ 150	82CNQ030APBF-ND†	15.19	11.82	9.79
110	30	0.39	5100	-55 ~ 150	112CNQ030APBF-ND†	13.50	10.50	8.70
80	35	0.47	5800	-55 ~ 150	80CNQ035A-ND	14.56	11.26	9.74
80	35	0.47	5800	-55 ~ 150	80CNQ035APBF-ND†	16.30	12.68	10.51
80	35	0.54	4600	-55 ~ 175	81CNQ035A-ND	14.56	11.26	9.74
80	40	0.47	5800	-55 ~ 150	80CNQ040APBF-ND†	16.30	12.68	10.51
80	40	0.54	4600	-55 ~ 175	81CNQ040A-ND	14.56	11.26	9.74
80	45	0.47	5800	-55 ~ 150	80CNQ045APBF-ND†	11.59	9.02	7.48
80	45	0.54	4600	-55 ~ 175	81CNQ045APBF-ND†	16.46	12.81	10.61
110	45	0.55	4000	-55 ~ 175	111CNQ045APBF-ND†	13.50	10.50	8.70
110	45	0.5	5400	-55 ~ 150	110CNQ045A-ND	13.20	10.20	8.82
110	45	0.5	5400	-55 ~ 150	110CNQ045APBF-ND†	13.50	10.50	8.70
80	60	0.56	5000	-55 ~ 150	88CNQ060A-ND	16.88	13.01	11.19
80	60	0.56	5000	-55 ~ 150	88CNQ060APBF-ND†	17.07	13.28	11.00
80	80	0.67	7000	-55 ~ 175	83CNQ080APBF-ND†	16.82	13.09	10.85
80	100	0.67	7000	-55 ~ 175	83CNQ100APBF-ND†	11.74	9.13	7.57
110	100	0.67	7000	-55 ~ 175	113CNQ100APBF-ND†	13.50	10.50	8.70
80	135	0.69	4300	-55 ~ 175	89CNQ135APBF-ND†	14.56	11.33	9.39
80	150	0.69	4300	-55 ~ 175	89CNQ150APBF-ND†	17.11	13.32	11.03
					D61-8-SL			
110	15	0.33	5050	-55 ~ 125	115CNQ015ASL-ND	13.42	10.37	8.97
110	30	0.39	5100	-50 ~ 150	112CNQ030ASL-ND	13.42	10.37	8.97
80	35	0.47	5800	-55 ~ 150	80CNQ035ASL-ND	15.94	12.32	10.66
80	35	0.54	4600	-55 ~ 175	81CNQ035ASL-ND	14.56	11.26	9.74
80	40	0.54	4600	-55 ~ 175	81CNQ040ASL-ND	14.56	11.26	9.74
80	45	0.54	4600	-55 ~ 175	81CNQ045ASL-ND	15.16	11.72	10.13
110	45	0.5	5400	-55 ~ 150	110CNQ045ASL-ND	17.47	13.51	11.68
110	45	0.55	4000	-55 ~ 175	111CNQ045ASL-ND	17.71	13.69	11.84
80	60	0.56	5000	-55 ~ 150	88CNQ060ASL-ND	16.88	13.01	11.19
80	80	0.67	7000	-55 ~ 175	83CNQ080ASL-ND	16.14	12.48	10.79
80	100	0.67	7000	-55 ~ 175	83CNQ100ASL-ND	14.85	11.48	9.93
110	100	0.67	7000	-55 ~ 175	113CNQ100ASL-ND	13.97	10.80	9.34
80	135	0.69	4300	-55 ~ 175	89CNQ135ASL-ND	16.43	12.70	10.98
80	150	0.69	4300	-55 ~ 175	89CNQ150ASL-ND	14.23	11.00	9.52
					D61-8-SM			
80	15	0.32	5200	-55 ~ 100	85CNQ015ASM-ND	15.74	12.17	10.52
110	15	0.33	5050	-55 ~ 125	115CNQ015ASM-ND	13.42	10.37	8.97
80	20	0.32	6000	-55 ~ 150	87CNQ020ASM-ND	14.23	11.00	9.52
80	30	0.37	5100	-55 ~ 150	82CNQ030ASM-ND	16.24	12.56	10.86
80	35	0.54	4600	-55 ~ 175	81CNQ035ASM-ND	14.56	11.26	9.74
80	40	0.47	5800	-55 ~ 150	80CNQ040ASM-ND	15.94	12.32	10.65
80	40	0.54	4600	-55 ~ 175	81CNQ040ASM-ND	14.56	11.26	9.74
80	45	0.47	5800	-55 ~ 150	80CNQ045ASM-ND	15.94	12.32	10.65
80	45	0.54	4600	-55 ~ 175	81CNQ045ASM-ND	15.16	11.72	10.13
110	45	0.5	5400	-55 ~ 150	110CNQ045ASM-ND	14.52	11.23	9.71
110	45	0.55	4000	-55 ~ 175	111CNQ045ASM-ND	17.71	13.69	11.84
80	60	0.56	5000	-55 ~ 150	88CNQ060ASM-ND	16.57	12.77	10.99
80	80	0.67	7000	-55 ~ 175	83CNQ080ASM-ND	16.45	12.71	10.99
80	100	0.67	7000	-55 ~ 175	83CNQ100ASM-ND	13.66	10.56	9.13
110	100	0.67	7000	-55 ~ 175	113CNQ100ASM-ND	13.97	10.80	9.34
80	135	0.69	4300	-55 ~ 175	89CNQ135ASM-ND	16.43	12.70	10.98
80	150	0.69	4300	-55 ~ 175	89CNQ150ASM-ND	14.23	11.00	9.52
					D-PAK			
7	30	0.35	535	-40 ~ 150	6CWQ03FN-ND	.86	.69	.52
12	30	0.47	320	-55 ~ 150	12CWQ03FN-ND	.83	.67	.48
12	30	0.47	320	-55 ~ 150	12CWQ03FNTR-ND	900.00/2,000		
3.5	30	0.45	535	-40 ~ 150	30WQ03FN-ND	.69	.56	.40
5.5	30	0.46	320	-40 ~ 150	50WQ03FN-ND	.93	.74	.53
3	30	0.49	490	-40 ~ 150	MBRD330-ND	.86	.52	.38
7	40	0.53	500	-40 ~ 150	6CWQ04FN-ND	.68	.54	.39
7	40	0.53	500	-40 ~ 150	6CWQ04FNTR-ND	730.00/2,000		
12	40	0.52	320	-55 ~ 150	12CWQ04FN-ND	1.05	.84	.61
3.5	40	0.53	500	-40 ~ 150	30WQ04FN-ND	.83	.66	.47
3.5	40	0.53	500	-40 ~ 150	30WQ04FNTR-ND	588.00/2,000		
5.5	40	0.51	340	-40 ~ 150	50WQ04FN-ND	1.05	.84	.60
5.5	40	0.51	340	-40 ~ 150	50WQ04FNTR-ND	1134.00/2,000		
3	40	0.49	490	-40 ~ 150	MBRD340-ND	.97	.58	.42
10	45	0.53	400	-40 ~ 175	10WQ045FN-ND	3.75	2.63	2.05
10	45	0.57	75	-65 ~ 175	STPS1045BIR-ND	1.76	1.04	.80
6	50	0.65	490	-40 ~ 150	MBRD650CT-ND	1.06	.62	.46
6	60	0.65	490	-40 ~ 150	MBRD660CT-ND	1.07	.64	.47
7	60	0.61	500	-40 ~ 150	6CWQ06FN-ND	.68	.54	.39
12	60	0.61	500	-55 ~ 150	12CWQ06FN-ND	.93	.74	.53
3.5	60	0.61	490	-40 ~ 150	30WQ06FN-ND	1.21	.97	.69
3.5	60	0.61	490	-40 ~ 150	30WQ06FNTR-ND	664.00/2,000		
5.5	60	0.57	320	-40 ~ 150	50WQ06FN-ND	.64	.51	.37
5.5	60	0.57	320	-40 ~ 150	50WQ06FNTRR-ND	1029.00/3,000		
7	100	0.81	440	-40 ~ 150	6CWQ10FN-ND	.68	.54	.39
7	100	0.81	440	-40 ~ 150	6CWQ10FNTR-ND	730.00/2,000		
12	100	0.8	330	-55 ~ 150	12CWQ10FN-ND	.85	.68	.49
12	100	0.8	330	-55 ~ 150	12CWQ10FNTR-ND	918.00/2,000		
12	100	0.8	330	-55 ~ 150	12CWQ10FNTRR-ND	1581.00/3,000		
3.5	100	0.81	440	-40 ~ 150	30WQ10FN-ND	1.13	.90	.64
3.5	100	0.81	440	-40 ~ 150	30WQ10FNTR-ND	588.00/2,000		
5.5	100	0.77	30	-40 ~ 150	50WQ10FN-ND	1.42	1.14	.81
					D-2PAK			
19	15	0.36	700	-55 ~ 100	19TQ015S-ND	3.90	3.12	2.24
19	15	0.36	700	-55 ~ 100	19TQ015STRL-ND	1684.80/800		
20	15	0.25	700	-55 ~ 125	STPS20L15GIR-ND	3.52	2.02	1.72
30	30	0.49	1000	-55 ~ 150	32CTQ030STRL-ND	655.20/800		
40	30	0.48	1100	-55 ~ 150	42CTQ030STRL-ND	1166.40/800		
12	35	0.53	690	-55 ~ 175	12CTQ035S-ND	2.20	1.76	1.32
15	35	0.51	810	-55 ~ 150	15CTQ035S-ND	1.87	1.50	1.13
20	35	0.57	1060	-55 ~ 175	20CTQ035S-ND	2.73	2.18	1.64
20	35	0.51	1800	-55 ~ 150	20TQ035S-ND	2.63	2.10	1.58
30	35	0.56	1060	-55 ~ 175	30CTQ035S-ND	3.13	2.50	1.88
10	35	0.57	1060	-65 ~ 150	MBRB1035-ND	1.39	.82	.63
15	35	0.57	690	-65 ~ 150	MBRB1535CT-ND	2.44	1.47	1.12
15	35	0.57	690	-65 ~ 150	MBRB1535CTPBF-ND†	2.14	1.38	1.07
16	35	0.57	1800	-65 ~ 150	MBRB1635-ND	1.92	1.01	.91

† ***RoHS Compliant***

(Continued)

International IOR Rectifier **Schottky Rectifiers** *(Cont.)*

IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp = 5µs Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
16	35	0.57	1800	-65 ~ 150	MBRB1635PBF-ND†	1.51	1.01	.81
20	35	0.57	1060	-65 ~ 150	MBRB2035CT-ND	2.20	1.76	1.32
30	35	0.73	1060	-65 ~ 150	MBRB2535CT-ND	2.77	2.22	1.67
6	45	0.53	690	-55 ~ 175	6TQ045S-ND	1.82	1.46	1.10
7.5	45	0.57	690	-65 ~ 150	MBRB745-ND	2.42	1.44	1.07
7.5	45	0.57	690	-65 ~ 150	MBRB745PBF-ND†	2.02	1.30	1.01
16	45	0.57	1800	-65 ~ 150	MBRB1645PBF-ND†	2.19	1.46	1.17
10	45	0.57	1060	-65 ~ 150	MBRB1045-ND	2.38	1.90	1.14
12	45	0.53	690	-55 ~ 175	12CTQ045S-ND	2.13	1.71	1.28
20	45	0.57	1060	-55 ~ 175	20CTQ045S-ND	2.78	2.22	1.67
20	45	0.51	1800	-55 ~ 150	20TQ045S-ND	2.88	2.30	1.73
30	45	0.6	1020	-65 ~ 150	MBRB3045CT-ND	3.25	2.60	1.95
30	45	0.73	1060	-65 ~ 150	MBRB2545CTTRL-ND	1382.40/800		
30	45	0.73	1060	-65 ~ 150	MBRB2545CTIR-ND	3.20	2.56	1.92
40	45	0.6	1020	-65 ~ 150	MBRB4045CT-ND	3.43	2.74	2.06
30	45	0.62	1060	-55 ~ 175	30CTQ045STRR-ND	1372.00/800		
15	60	0.56	1000	-55 ~ 150	15TQ060S-ND	3.50	2.80	2.10
30	60	0.62	1060	-55 ~ 150	30CTQ060SLPBFCT-ND†	4.83	3.22	2.58
30	60	0.62	1060	-55 ~ 150	30CTQ060STRLPBFTR-ND†	1803.20/800		
16	80	0.58	850	-55 ~ 175	16CTQ080S-ND	4.53	3.62	2.72
20	80	0.70	850	-65 ~ 150	MBRB2080CT-ND	4.48	3.58	2.69
20	90	0.70	850	-65 ~ 150	MBRB2090CT-ND	4.48	3.58	2.69
8	100	0.72	850	-55 ~ 175	8TQ100STRR-ND	440.80/800		
16	100	0.72	850	-55 ~ 175	16CTQ100S-ND	4.58	3.66	2.62
20	100	0.95	850	-65 ~ 150	MBRB20100CTTRL-ND	1286.40/800		
180	135	0.74	15000	-55 ~ 175	189NQ135-ND	31.09	24.03	20.78
10	150	0.93	620	-55 ~ 175	10CTQ150S-ND	3.35	2.69	1.92
16	400	1.19	100	-65 ~ 175	16CTU04S-ND	2.61	1.49	1.21
Half-Pak/D-67								
120	15	0.39	10800	-55 ~ 100	125NQ015-ND	25.00	20.00	14.29
120	15	0.39	10800	-55 ~ 100	125NQ015R-ND	25.00	20.00	14.29
180	15	0.4	15000	-55 ~ 100	185NQ015-ND	30.00	24.00	17.14
180	15	0.4	15000	-55 ~ 100	185NQ015R-ND	21.29	17.03	12.78
240	15	0.4	20000	-55 ~ 100	245NQ015-ND	29.91	23.93	17.09
240	15	0.4	20000	-55 ~ 100	245NQ015R-ND	35.00	28.00	21.00
20	30	0.41	22500	-55 ~ 150	122NQ030-ND	25.00	20.00	14.30
120	30	0.41	22500	-55 ~ 150	122NQ030R-ND	23.64	18.92	14.19
120	35	0.52	29000	-55 ~ 150	120NQ035-ND	19.76	15.81	11.86
120	35	0.56	19800	-55 ~ 175	121NQ035-ND	25.00	20.00	15.00
180	35	0.56	25500	-55 ~ 150	180NQ035-ND	30.00	24.00	18.00
180	35	0.56	22000	-55 ~ 175	181NQ035-ND	30.00	24.00	18.00
240	35	0.59	25000	-55 ~ 175	241NQ035-ND	43.77	35.02	26.27
240	35	0.55	26000	-55 ~ 150	240NQ035-ND	24.14	19.32	14.49
120	40	0.56	19800	-55 ~ 175	121NQ040-ND	15.71	12.57	9.43
180	40	0.56	25500	-55 ~ 150	180NQ040-ND	20.39	16.31	12.24
180	40	0.56	22000	-55 ~ 175	181NQ040-ND	30.00	24.00	18.00
240	40	0.55	26000	-55 ~ 150	240NQ040-ND	33.75	27.00	20.25
240	40	0.59	25000	-55 ~ 175	241NQ040-ND	24.14	19.32	14.49
120	45	0.52	29000	-55 ~ 150	120NQ045-ND	23.71	18.97	14.23
120	45	0.52	29000	-55 ~ 150	120NQ045R-ND	25.00	20.00	15.00
120	45	0.56	19800	-55 ~ 175	121NQ045-ND	23.81	19.05	14.29
120	45	0.56	19800	-55 ~ 175	121NQ045R-ND	34.13	27.31	20.48
180	45	0.56	25500	-55 ~ 150	180NQ045-ND	27.05	21.64	16.23
180	45	0.56	25500	-55 ~ 150	180NQ045R-ND	20.39	16.31	12.24
180	45	0.56	22000	-55 ~ 175	181NQ045-ND	20.39	16.31	12.24
180	45	0.56	22000	-55 ~ 175	181NQ045R-ND	30.00	24.00	18.00
240	45	0.55	26000	-55 ~ 150	240NQ045-ND	30.31	24.25	18.19
240	45	0.55	26000	-55 ~ 150	240NQ045R-ND	33.75	27.00	20.25
240	45	0.59	25000	-55 ~ 175	241NQ045R-ND	30.51	24.41	18.31
120	80	0.74	16000	-55 ~ 175	123NQ080-ND	25.00	20.00	15.00
240	80	0.72	25500	-55 ~ 175	243NQ080-ND	33.75	27.00	20.25
120	100	0.91	16000	-55 ~ 175	123NQ100-ND	23.87	19.10	13.65
120	100	0.74	16000	-55 ~ 175	123NQ100R-ND	23.87	19.10	14.33
180	100	0.75	22000	-55 ~ 175	183NQ100R-ND	27.25	21.80	16.35
240	100	0.72	25500	-55 ~ 175	243NQ100R-ND	30.57	24.46	18.35
120	135	0.74	10000	-55 ~ 175	129NQ135-ND	14.48	11.19	9.68
240	135	0.72	20000	-55 ~ 175	249NQ135-ND	21.53	16.92	14.61
I-PAK								
5.5	30	0.35	240	-40 ~ 150	50UQ03G-ND	1.08	.68	.50

† ***RoHS Compliant***

International IOR Rectifier **Bridge Rectifiers**

Operating Temperature Range: -40°C ~ 150°C **Storage Temperature Range:** -40°C ~ 150°C

D-34A

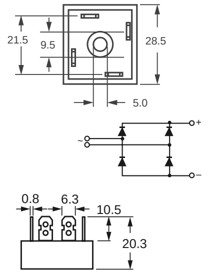

GBPC-A

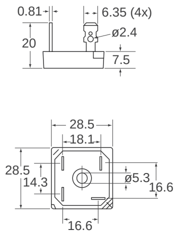

D-63

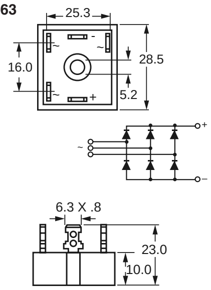

INT-A-Pak

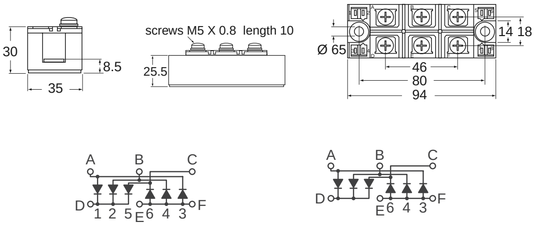

Full-controlled bridge (51MT160KB-ND)

Negative half-controlled bridge (113MT160KB-ND)

Pkg.	Max. Peak Reverse Volt.(V)	Max. Surge Current 10ms(A)	Max. Instant Forward Volt. (V)	Max. Ave. Rectified Current (A)	Digi-Key Part No.	Price Each 1	10	100
D-34A	50	350	1.1	25	26MB05A-ND	5.58	4.46	3.35
	100	350	1.1	25	26MB10A-ND	6.70	5.36	3.30
	200	350	1.1	25	26MB20A-ND	6.05	4.84	3.63
	600	350	1.1	25	26MB60A-ND	7.09	5.67	3.43
	1000	350	1.1	25	26MB100A-ND	9.28	7.42	5.57
	1400	350	1.1	25	26MB140A-ND	12.98	10.38	7.79
	1600	350	1.1	25	26MB160A-ND	11.10	8.88	6.66
	50	420	1.2	35	36MB05A-ND	5.91	4.73	3.55
	100	420	1.2	35	36MB10A-ND	6.56	5.25	3.94
	200	420	1.2	35	36MB20A-ND	6.36	5.09	3.82
	400	420	1.2	35	36MB40A-ND	7.19	5.76	3.84
	600	420	1.2	35	36MB60A-ND	7.35	5.88	3.91
	800	420	1.2	35	36MB80A-ND	7.46	5.97	3.97
	1000	420	1.2	35	36MB100A-ND	8.14	6.52	4.15
	1200	420	1.2	35	36MB120A-ND	8.53	6.83	4.31
	1400	420	1.2	35	36MB140A-ND	14.73	11.78	7.84
	1600	420	1.2	35	36MB160A-ND	14.91	11.93	7.94
GBPC-A	200	350	1.1	25	GBPC2502A-ND	2.87	2.30	1.73
	200	350	1.1	35	GBPC3502A-ND	3.34	2.67	2.01
	400	350	1.1	25	GBPC2504A-ND	3.74	3.00	2.25
	600	350	1.1	25	GBPC2506A-ND	2.93	2.35	1.76
	800	350	1.1	25	GBPC2508A-ND	3.85	3.08	2.31
	400	420	1.1	35	GBPC3504A-ND	3.03	2.42	1.82
	600	420	1.1	35	GBPC3506A-ND	3.12	2.50	1.88
GBPC-A	800	420	1.1	35	GBPC3508A-ND	4.10	3.28	2.46
	1000	420	1.1	35	GBPC3510A-ND	3.24	2.59	1.95
	1200	420	1.1	35	GBPC3512A-ND	3.31	2.65	1.99
D-63	100	360	1.26	25	26MT10-ND	18.61	14.89	11.17
	200	360	1.26	25	26MT20-ND	16.63	13.30	9.98
	400	360	1.26	25	26MT40-ND	18.71	14.97	11.23
	600	360	1.26	25	26MT60-ND	18.95	15.16	11.37
	1000	360	1.26	25	26MT100-ND	21.29	17.03	12.78
	1200	360	1.26	25	26MT120-ND	22.41	17.93	13.45
	1400	360	1.26	25	26MT140-ND	24.06	19.25	14.44
	1600	360	1.26	25	26MT160-ND	21.50	17.20	12.90
	100	475	1.26	25	36MT10-ND	15.62	12.50	9.37
	200	475	1.26	25	36MT20-ND	17.66	14.13	10.60
	400	300	1.19	35	36MT40-ND	16.90	13.52	9.00
	600	475	1.19	35	36MT60-ND	18.15	14.52	10.89
	800	475	1.19	35	36MT80-ND	16.37	13.10	9.83
	1000	475	1.19	35	36MT100-ND	18.71	14.97	11.23
	1200	475	1.19	35	36MT120-ND	21.95	17.56	13.17
	1400	475	1.19	35	36MT140-ND	24.97	19.98	14.99
	1600	420	1	35	36MT160-ND	26.05	20.84	13.85
INT-A-Pak	1600	390	2.5	55	51MT160KB-ND	92.31	83.08	61.39
		1130	1.57	110	113MT160KB-ND	113.71	81.31	73.35

Input Rectifier Diodes

DO-4

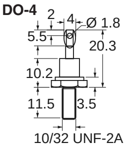

Cathode to Stud

DO-5

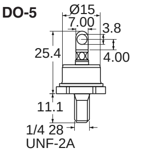

Cathode to Stud

41HF (R)

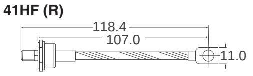

71HF (R)

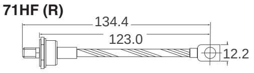

DPak

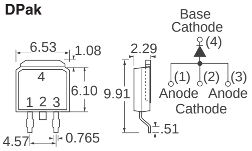

SMD-220

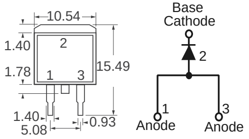

TO-220AC

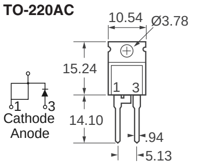

TO-247AC

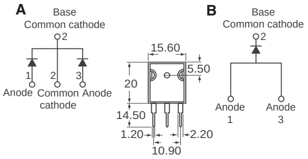

TO-220AC
Full Pack

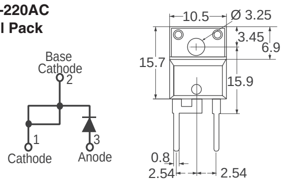

TO-252AA

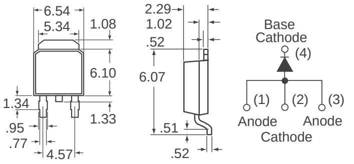

MAGN-A-Pak™

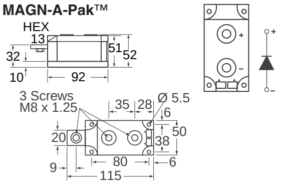

Pkg.	IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp=10ms Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
Standard Recovery Diodes (Discrete Circuit)									
DO-4	6	400	1.1	159	-65 ~ 175	6F40-ND	4.04	3.24	2.43
	6	400	1.1	159	-65 ~ 175	6FR40-ND*	4.04	3.24	2.43
	6	1200	1.1	159	-65 ~ 175	6FR120-ND*	8.14	6.52	4.89
	12	50	1.35	230	-65 ~ 200	1N1199A-ND	3.93	3.14	2.36
	12	100	1.26	265	-65 ~ 175	12F10-ND	3.58	2.86	2.15
	12	100	1.26	265	-65 ~ 175	12FR10-ND*	3.58	2.86	2.15
	12	100	1.35	230	-65 ~ 200	1N1200A-ND	3.95	3.16	2.10
	12	100	1.35	230	-65 ~ 200	1N1200RA-ND*	3.95	3.16	2.37
	12	150	1.35	230	-65 ~ 200	1N1201A-ND	4.00	3.20	2.40
	12	200	1.26	265	-65 ~ 175	12F20-ND	3.33	2.67	2.00
	12	200	1.26	265	-65 ~ 175	12FR20-ND*	3.33	2.67	2.00
	12	200	1.35	230	-65 ~ 200	1N1202RA-ND*	3.69	2.95	2.22
	12	300	1.35	230	-65 ~ 200	1N1203RA-ND*	3.58	2.86	2.15
	12	400	1.26	265	-65 ~ 175	12F40-ND	4.29	3.44	2.58
	12	400	1.26	265	-65 ~ 175	12FR40-ND*	4.29	3.44	2.58
	12	400	1.35	230	-65 ~ 200	1N1204A-ND	4.50	3.60	2.70
	12	600	1.35	230	-65 ~ 200	1N1206A-ND	5.34	4.28	2.85
	12	600	1.26	265	-65 ~ 175	12F60-ND	5.03	4.03	3.02
	12	600	1.26	265	-65 ~ 175	12FR60-ND*	5.03	4.03	3.02
	12	600	1.35	230	-65 ~ 200	1N1206RA-ND*	4.20	3.36	2.52
	12	800	1.26	265	-65 ~ 175	12F80-ND	5.56	4.45	3.34
	12	800	1.26	265	-65 ~ 175	12FR80-ND*	5.56	4.45	3.34
	12	1000	1.26	265	-65 ~ 175	12F100-ND	7.59	6.08	4.56
	12	1000	1.35	230	-65 ~ 200	1N3673A-ND	8.28	6.63	4.97
	12	1200	1.26	265	-65 ~ 175	12F120-ND	6.73	5.39	4.04
	16	100	1.23	350	-65 ~ 175	16F10-ND	3.63	2.91	2.18
	16	100	1.23	350	-65 ~ 175	16FR10-ND	3.63	2.91	2.18
	16	200	1.23	350	-65 ~ 175	16F20-ND	3.66	2.93	2.20
	16	400	0.9	350	-65 ~ 175	16F40-ND	4.79	3.83	2.55
	16	400	0.9	350	-65 ~ 175	16FR40-ND*	4.79	3.83	2.55
	16	600	1.23	350	-65 ~ 175	16F60-ND	5.56	4.45	3.34
	16	600	1.23	350	-65 ~ 175	16FR60-ND	5.56	4.45	3.34
	16	800	1.23	350	-65 ~ 175	16FR80-ND	6.05	4.84	3.63
	16	1000	1.23	350	-65 ~ 175	16F100-ND	8.14	6.52	4.89
	16	1000	1.23	350	-40 ~ 150	16FR100-ND	8.14	6.52	4.89
	16	1200	1.23	370	-65 ~ 175	16F120-ND	6.08	4.87	3.25
	16	1200	1.23	350	-65 ~ 175	16FR120-ND	6.84	5.48	4.11
	25	100	1.3	356	-65 ~ 175	25F10-ND	4.18	3.35	2.51
	25	100	1.3	356	-65 ~ 175	25FR10-ND*	4.98	3.99	2.99
	25	200	1.3	356	-65 ~ 175	25F20-ND	5.20	4.16	3.12
	25	200	1.3	356	-65 ~ 175	25FR20-ND*	5.20	4.16	3.12
	25	400	1.3	356	-65 ~ 175	25F40-ND	4.48	3.59	2.69
	25	400	1.3	356	-65 ~ 175	25FR40-ND*	5.34	4.27	3.21
	25	600	1.3	356	-65 ~ 175	25FR60-ND*	5.67	4.54	3.40
	25	800	1.3	356	-65 ~ 175	25F80-ND	6.05	4.84	3.63
	25	800	1.3	356	-65 ~ 175	25FR80-ND*	6.08	4.87	3.65
	25	1000	1.3	356	-65 ~ 175	25F100-ND	8.25	6.60	4.95
	25	1000	1.3	356	-65 ~ 175	25FR100-ND*	8.25	6.60	4.95
	25	1200	1.3	356	-65 ~ 175	25F120-ND	7.20	5.76	4.32
	25	1200	1.3	356	-65 ~ 175	25FR120-ND*	9.79	7.84	5.88
DO-5	15	50	1.5	239	-65 ~ 190	1N3208-ND	4.83	3.86	2.90
	15	100	1.5	239	-65 ~ 190	1N3209-ND	4.83	3.86	2.90
	15	400	1.5	239	-65 ~ 190	1N3212-ND	4.83	3.86	2.90
	15	600	1.5	239	-65 ~ 190	1N3214-ND	7.50	6.00	4.50
	35	100	1.7	480	-65 ~ 190	1N1184-ND	5.97	4.78	3.59
	35	200	1.7	480	-65 ~ 190	1N1186-ND	5.82	4.66	3.50
	35	200	1.7	480	-65 ~ 190	1N1186R-ND*	5.83	4.66	3.50
	35	300	1.7	480	-65 ~ 190	1N1187-ND	6.66	5.33	4.00
	35	400	1.7	480	-65 ~ 190	1N1188R-ND*	7.50	6.00	4.50
	40	50	1.3	765	-65 ~ 200	1N1183R-ND*	5.97	4.78	3.59
	40	50	1.3	765	-65 ~ 200	1N1183A-ND	6.56	5.25	3.94
	40	100	1.3	765	-65 ~ 190	1N1184RA-ND*	5.98	4.78	3.59
	40	100	1.3	570	-65 ~ 160	40HFR10-ND	4.43	3.55	2.48
	40	200	1.3	765	-65 ~ 190	1N1186RA-ND*	5.97	4.78	3.59
	40	400	1.3	765	-65 ~ 190	1N1188RA-ND*	7.68	6.15	4.61
	40	200	1.3	570	-65 ~ 190	40HF20-ND	5.45	4.36	3.27
	40	200	1.3	570	-65 ~ 190	40HFR20-ND*	5.98	4.79	3.59
	40	400	1.3	570	-65 ~ 190	40HFR40-ND*	7.07	5.66	4.25
	40	600	1.3	765	-65 ~ 190	1N1190RA-ND*	8.38	6.70	5.03
	40	800	1.3	570	-65 ~ 190	40HF80-ND	9.08	7.26	5.45
	40	800	1.3	570	-65 ~ 190	40HFR80-ND*	9.08	7.26	5.45
	40	1000	1.3	570	-65 ~ 160	40HFR100-ND	10.09	8.08	5.37
	40	1200	1.3	595	-65 ~ 190	40HFR120-ND*§	7.94	6.36	4.23
	40	1400	1.3	570	-65 ~ 160	40HFR140-ND*	12.21	9.77	7.33
	60	50	1.3	860	-65 ~ 200	1N2128A-ND	8.19	6.56	4.92
	60	100	1.3	860	-65 ~ 190	1N2129A-ND	8.70	6.96	5.22
	60	200	1.3	860	-65 ~ 190	1N2131A-ND	8.63	6.90	5.18
	60	200	1.3	860	-65 ~ 190	1N2131RA-ND*	9.66	7.73	5.80
	60	400	1.3	860	-65 ~ 190	1N2135A-ND	12.93	10.35	7.76
	60	400	1.3	860	-65 ~ 190	1N2135RA-ND*	12.93	10.35	7.76
	60	600	1.3	860	-65 ~ 190	1N2138A-ND	15.39	12.32	9.24
	60	600	1.3	860	-65 ~ 190	1N2138RA-ND*	15.39	12.32	9.24
	70	100	1.00	1250	-65 ~ 150	70HF10-ND	7.98	6.38	4.47
	70	100	1.35	1200	-65 ~ 180	70HFR10-ND*	7.98	6.38	4.79
	70	100	1.00	1200	-65 ~ 180	71HF10-ND	11.04	8.84	6.63
	70	200	0.79	1200	-65 ~ 150	70HF20-ND	8.44	6.76	5.07
	70	200	1.35	1200	-65 ~ 180	70HFR20-ND*	8.44	6.76	5.07
	70	600	1.35	1200	-65 ~ 180	70HFR60-ND*	11.08	8.87	6.65
	70	800	0.79	1200	-65 ~ 150	70HF80-ND	12.10	9.68	7.26
	70	800	1.35	1200	-65 ~ 180	70HFR80-ND*	12.10	9.68	7.26
	70	1000	1.35	1200	-65 ~ 180	70HFR100-ND*	15.07	12.06	9.05
	70	1200	1.35	1250	-65 ~ 180	70HF120-ND§	16.23	12.98	8.66
	70	1200	1.35	1250	-65 ~ 180	70HFR120-ND*§	7.35	5.88	3.92
	70	1400	0.79	1200	-65 ~ 150	70HF140-ND	17.27	13.82	10.37
	70	1400	1.35	1200	-65 ~ 150	70HFR140-ND*	17.27	13.82	10.37
	70	1600	0.79	1200	-65 ~ 150	70HF160-ND	13.50	10.80	8.10
	70	1600	1.35	1200	-65 ~ 150	70HFR160-ND*	14.18	11.34	8.51
	85	100	1.2	1700	-65 ~ 180	85HF10-ND	11.33	9.07	6.80
	85	100	1.2	1700	-65 ~ 180	85HFR10-ND*	11.33	9.07	6.80
	85	200	1.2	1700	-65 ~ 180	85HF20-ND	9.29	7.43	5.58
	85	200	1.2	1700	-65 ~ 180	85HFR20-ND*	12.02	9.62	7.22
	85	1400	1.2	1700	-65 ~ 180	85HF140-ND	19.86	15.89	11.92
	85	400	1.2	1700	-65 ~ 180	85HFR40-ND*	14.11	11.29	8.47
	85	1600	1.2	1700	-65 ~ 180	85HF160-ND	16.30	13.05	9.79
	85	600	1.2	1700	-65 ~ 180	85HF60-ND	11.70	9.36	7.02
	85	600	1.2	1700	-65 ~ 180	85HFR60-ND*	11.70	9.36	7.02
	85	800	1.2	1700	-65 ~ 180	85HF80-ND	12.48	9.98	7.49
	85	800	1.2	1700	-65 ~ 180	85HFR80-ND*	11.88	9.51	7.13
	85	800	—	1700	-65 ~ 180	86HF80-ND	19.92	15.94	11.96
	85	1200	1.2	1700	-65 ~ 180	85HF120-ND	14.41	11.53	8.65
	85	1200	1.2	1700	-65 ~ 180	85HFR120-ND*	18.65	14.92	11.19
	85	1400	1.2	1700	-65 ~ 150	85HFR140-ND*	19.86	15.89	11.92
	85	1600	1.2	1700	-65 ~ 150	85HFR160-ND*	16.30	13.05	9.79
	85	1600	—	1700	-65 ~ 150	86HFR160-ND*	25.32	20.26	15.20
41HF	40	200	0.70	570	-65 ~ 190	41HF20-ND	7.77	6.22	4.76
	40	600	0.70	570	-65 ~ 190	41HF60-ND	10.62	8.50	6.38
	40	800	0.70	570	-65 ~ 190	41HF80-ND	11.73	9.39	7.04
	40	800	0.70	570	-65 ~ 190	41HFR80-ND*	11.73	9.39	7.04
	40	1000	0.70	570	-65 ~ 190	41HF100-ND	12.99	10.40	7.80
71HF	70	400	1.00	1200	-65 ~ 180	71HF40-ND	9.45	7.56	5.67
	70	400	1.00	1200	-65 ~ 180	71HFR40-ND*	13.32	10.66	8.00
	70	600	1.00	1200	-65 ~ 180	71HF60-ND	14.43	11.55	8.66
	70	1000	1.00	1200	-65 ~ 180	71HFR100-ND*	18.78	15.03	11.27
	70	1200	1.00	1200	-65 ~ 180	71HFR120-ND*	20.04	16.04	12.03
DO-8	100	100	1.5	2200	-40 ~ 200	1N3288RA-ND*	22.30	17.84	13.38
	100	100	1.5	1550	-40 ~ 200	1N3288R-ND*	19.01	15.21	11.41
	100	200	1.5	2200	-40 ~ 200	1N3289RA-ND	23.38	18.70	14.03
	100	300	1.5	2200	-40 ~ 200	1N3290RA-ND*	24.05	19.24	14.43
	100	300	1.5	1550	-40 ~ 200	1N3290-ND	20.61	16.49	12.37
	100	300	1.5	1550	-40 ~ 200	1N3290R-ND*	28.00	22.40	16.80
	100	500	1.5	2200	-40 ~ 200	1N3292B-ND	25.43	20.34	15.26
	100	500	1.5	2200	-40 ~ 200	1N3292RB-ND*	25.43	20.34	15.26
	100	500	1.5	1550	-40 ~ 200	1N3292R-ND*	21.80	17.45	13.09
	100	600	1.5	1550	-40 ~ 200	1N3293-ND	22.50	18.00	13.50
	150	50	1.33	3570	-40 ~ 200	150KR5A-ND*	20.25	16.20	12.15
	150	100	1.33	3570	-40 ~ 200	150K10A-ND	28.66	22.93	17.20
	150	100	1.33	3570	-40 ~ 200	150KR10A-ND*	31.49	25.20	18.90
	150	200	1.33	3570	-40 ~ 200	150K20A-ND	24.63	19.70	14.78
	150	300	1.33	3570	-40 ~ 200	150K30A-ND	25.43	20.34	15.26
	150	300	1.33	3570	-40 ~ 200	150KR30A-ND*	31.08	24.86	18.65

* Anode to stud § tp = 8.3ms ‡ IFSM(A) @ tp= 5µs Sine † ***RoHS Compliant***

(Continued)

Input Rectifier Diodes *(Cont.)*

Half-Pak

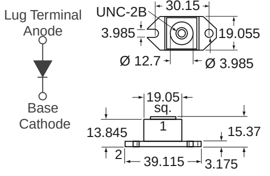

DO-8

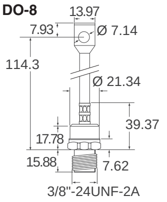

PowIRtab

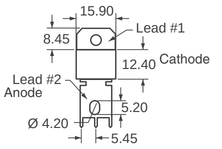

DO-9

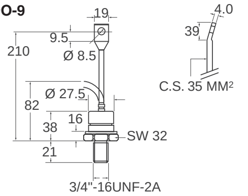

K-PUK

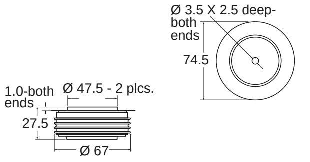

B-42

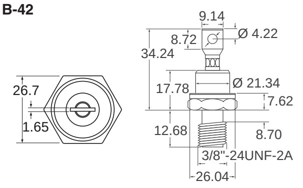

B-47

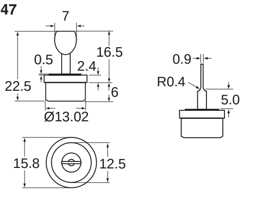

INT-A-Pak™

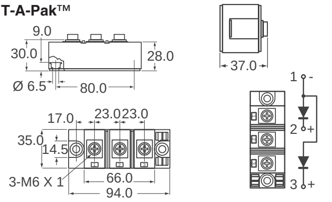

ADD-A-Pak™

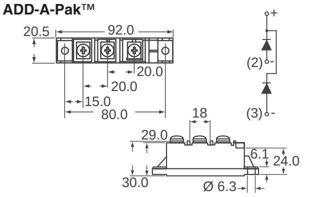

Pkg.	IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp=10ms Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
DO-8	150	400	1.33	3570	-40 ~ 200	150KR40A-ND*	31.79	25.44	19.08
	150	600	1.33	3570	-40 ~ 200	150KR60A-ND*	33.91	27.13	20.35
	150	600	1.33	3570	-40 ~ 200	150K60A-ND	24.98	19.98	14.99
DPak	8	800	1.1	175	-55 ~ 150	8EWS08S-ND	1.31	1.05	.84
	8	1000	1	200	-55 ~ 150	8EWS10S-ND	1.02	.82	.62
	8	1200	1.1	175	-55 ~ 150	8EWS12S-ND	1.41	1.13	.91
PowIRtab	70	200	1.33	1000	-40 ~ 150	70EPF02-ND	7.81	6.25	5.00
	70	400	1.33	1000	-40 ~ 150	70EPF04-ND	8.06	6.45	5.16
	85	200	1.35	1250	-40 ~ 150	85EPF02-ND	10.23	8.19	6.55
	85	400	1.35	1250	-40 ~ 150	85EPF04-ND	10.58	8.47	6.77
	85	600	1.35	1250	-40 ~ 150	85EPF06-ND	11.53	9.23	7.38
TO-220AC	10	800	1.1	175	-40 ~ 150	10ETS08-ND	1.98	1.59	1.27
SMD-220	10	800	1.1	175	-40 ~ 150	10ETS08S-ND	2.30	1.85	1.48
	10	1200	1.1	170	-40 ~ 150	10ETS12S-ND	1.93	1.54	1.16
	20	800	1.1	260	-40 ~ 150	20ETS08S-ND	2.84	2.27	1.82
	20	1200	1.1	260	-40 ~ 150	20ETS12S-ND	3.44	2.75	2.20
TO-220AC	20	800	1.1	260	-40 ~ 150	20ETS08-ND	2.66	2.14	1.71
	20	1200	1.1	260	-40 ~ 150	20ETS12-ND	2.49	2.00	1.60
TO-220ACFP	10	1200	1.1	170	-40 ~ 150	10ETS12FP-ND	1.94	1.55	1.17
	10	1200	1.1	170	-40 ~ 150	10ETS12-ND	1.40	1.12	.84
	20	400	1.3	250	-40 ~ 150	20ETF04FP-ND	2.29	1.84	1.38
	20	800	1.3	250	-40 ~ 150	20ETS08FP-ND	2.28	1.83	1.37
	20	1200	1.3	250	-40 ~ 150	20ETS12FP-ND	2.18	1.75	1.31
TO-247AC/MOD	40	800	1.1	380	-40 ~ 150	40EPS08-ND	3.67	2.94	2.35
	40	1200	1.1	380	-40 ~ 150	40EPS12-ND	3.21	2.58	2.06
	60	800	1.1	735	-40 ~ 150	60EPS08-ND	5.60	4.49	3.59
	60	1200	1.1	735	-40 ~ 150	60EPS12-ND	4.93	3.94	3.55
	80	800	1.17	1450	-40 ~ 150	80EPS08-ND	7.15	5.72	4.29
	80	1200	1.17	1450	-40 ~ 150	80EPS12-ND	8.11	6.49	4.87
DO-9	400	2000	0.80	8250	-40 ~ 190	SD400N20PC-ND	95.02	—	—
K-PUK	3800	400	0.86	35800	-40 ~ 180	SD3000C04K-ND	231.00	196.35	165.17
B-42	150	50	1.33	3000	-40 ~ 200	150KSR5-ND*	22.28	17.82	13.37
	150	50	1.33	3000	-40 ~ 200	150KS5-ND	22.28	17.82	13.37
	150	100	1.33	3000	-40 ~ 200	150KS10-ND	31.60	25.28	18.96
	150	200	1.33	3000	-40 ~ 200	150KS20-ND	25.38	20.30	15.23
	150	300	1.33	3000	-40 ~ 200	150KS30-ND	34.16	27.33	20.50
	150	300	1.33	3000	-40 ~ 200	150KSR30-ND*	34.16	27.33	20.50
	150	400	1.33	3000	-40 ~ 200	150KSR40-ND*	34.95	27.97	20.98
	150	400	1.33	3000	-40 ~ 200	150KS40-ND	34.95	27.97	20.98
	150	600	1.33	3000	-40 ~ 200	150KSR60-ND*	37.32	29.86	22.40
	150	600	1.33	3000	-40 ~ 200	150KS60-ND	37.32	29.86	22.40
B-47	50	50	1.45	714	-65 ~ 195	8AF05NPP-ND	4.65	3.72	2.79
	50	50	1.45	714	-65 ~ 195	8AF05RPP-ND*	4.65	3.72	2.79
	50	100	1.45	714	-65 ~ 195	8AF1NPP-ND	5.12	4.10	3.07
	50	100	1.45	714	-65 ~ 195	8AF1RPP-ND*	5.12	4.10	3.07
	50	200	1.45	714	-65 ~ 195	8AF2NPP-ND	5.53	4.43	3.32
	50	200	1.45	714	-65 ~ 195	8AF2RPP-ND	5.53	4.43	3.32
	50	400	1.45	714	-65 ~ 195	8AF4NPP-ND	6.08	4.87	3.65
INT-A-Pak	165	1200	0.73	4200	-40 ~ 150	IRKD166/12-ND	65.44	54.32	45.81
	230	400	0.83	5765	-40 ~ 150	IRKJ236/04-ND	86.52	69.22	53.25
ADD-A-Pak	60	400	0.92	1680	-40 ~ 150	IRKC56/04A-ND	38.10	30.48	24.27
	60	600	1.03	1680	-40 ~ 150	IRKC56/06A-ND	31.88	25.51	22.00
Fast Recovery Diodes									
DO-4	6	50	1.4	72	-65 ~ 150	1N3879R-ND*	6.13	4.90	3.68
	6	100	1.4	72	-65 ~ 150	1N3880-ND	6.18	4.94	3.71
	6	200	1.4	72	-65 ~ 150	1N3881-ND	6.20	4.96	3.72
	6	600	1.4	110	-65 ~ 150	6FL60S02-ND	6.93	5.54	4.16
	6	1000	1.4	115	-40 ~ 150	6FL100S05-ND	7.19	5.75	3.83
	12	100	1.4	145	-65 ~ 150	1N3890R-ND	6.30	5.04	3.78
	12	100	1.4	145	-65 ~ 150	12FL10S02-ND	5.61	4.49	3.37
	12	100	1.4	145	-65 ~ 150	1N3890-ND	4.49	3.60	2.70
	12	200	1.4	145	-65 ~ 150	12FL20S02-ND	6.22	4.98	3.73
	12	200	1.4	145	-65 ~ 150	1N3891-ND	5.34	4.28	3.21
	12	400	1.4	145	-65 ~ 150	12FL40S02-ND	7.67	6.14	4.61
	12	400	1.4	145	-65 ~ 150	12FLR40S02-ND*	7.67	6.14	4.61
	12	600	1.4	145	-65 ~ 150	12FL60S02-ND	6.55	5.24	3.93
	12	1000	1.4	145	-65 ~ 150	12FL100S05-ND	10.70	8.56	6.42
	12	1000	1.4	145	-65 ~ 150	12FLR100S05-ND*	10.70	8.56	6.42
DO-4	16	200	1.4	180	-65 ~ 150	16FL20S02-ND	7.16	5.73	4.30
	16	200	1.4	180	-65 ~ 150	16FLR20S02-ND*	6.65	5.32	3.99
	16	400	1.4	180	-65 ~ 150	16FL40S02-ND	8.06	6.45	4.84
	16	600	1.4	180	-65 ~ 150	16FL60S02-ND	6.85	5.49	4.12
	16	600	1.4	180	-65 ~ 150	16FL60S05-ND	7.51	6.01	4.51
	16	800	1.4	180	-65 ~ 150	16FL80S05-ND	8.31	6.65	4.99
	16	1000	1.4	180	-65 ~ 150	16FL100S05-ND	8.65	6.92	5.19
	16	1000	1.4	180	-65 ~ 150	16FLR100S05-ND*	11.19	8.96	6.72
DO-5	20	100	1.65	240	-40 ~ 125	IRD3900-ND	6.75	5.40	4.05
	20	200	1.65	240	-40 ~ 125	IRD3901-ND	6.27	5.02	3.77
	20	200	1.65	240	-40 ~ 125	IRD3901R-ND*	6.27	5.02	3.77
	20	300	1.65	240	-40 ~ 125	IRD3902-ND	8.44	6.75	5.07
	20	400	1.65	240	-40 ~ 125	IRD3903-ND	9.18	7.35	5.51
	20	400	1.65	240	-40 ~ 125	IRD3903R-ND*	9.18	7.35	5.51
	30	200	1.45	400	-40 ~ 150	30HFU-200-ND	11.61	9.29	6.97
	30	400	1.45	400	-40 ~ 150	30HFU-400-ND	13.36	10.69	8.02
	30	600	1.45	400	-40 ~ 150	30HFU-600-ND	14.68	11.74	8.81
	30	200	1.45	400	-40 ~ 150	30HFUR-200-ND*	11.61	9.29	6.97
	30	200	1.8	285	-40 ~ 125	IRD3911-ND	8.23	6.58	4.94
	30	300	1.8	285	-40 ~ 125	IRD3912-ND	7.10	5.68	4.26
	30	400	1.8	285	-40 ~ 125	IRD3913-ND	9.75	7.80	5.85
	30	400	1.8	285	-40 ~ 125	IRD3913R-ND	9.75	7.80	5.85
	40	1000	1.95	400	-40 ~ 125	40HFL100S05-ND	14.73	11.79	8.84
	40	400	1.95	400	-40 ~ 125	40HFL40S05-ND	12.62	10.10	7.58
	40	600	1.2	420	-40 ~ 150	40HFL60S02-ND	11.07	8.86	5.91
	40	600	1.95	400	-40 ~ 125	40HFL60S05-ND	14.11	11.29	8.47
	40	800	1.95	400	-40 ~ 125	40HFL80S05-ND	15.65	12.52	9.39
	40	100	1.95	400	-40 ~ 125	40HFLR10S05-ND*	9.98	7.99	5.99
	40	200	1.95	400	-40 ~ 125	40HFLR20S02-ND*	11.80	9.44	7.08
	40	400	1.95	400	-40 ~ 125	40HFLR40S02-ND*	13.86	11.09	8.32
	40	600	1.95	400	-40 ~ 125	40HFLR60S02-ND*	15.13	12.10	9.08
	40	600	1.95	400	-40 ~ 125	40HFLR60S05-ND*	14.11	11.29	8.47
	40	800	1.95	400	-40 ~ 125	40HFLR80S05-ND*	15.65	12.52	9.39
	60	100	1.5	700	-40 ~ 125	60HFU-100-ND	12.68	10.15	7.61
	60	200	1.5	700	-40 ~ 125	60HFU-200-ND	13.92	11.14	8.35
	60	400	1.5	700	-40 ~ 125	60HFU-400-ND	16.50	13.20	9.90
	60	600	1.5	700	-40 ~ 125	60HFU-600-ND	19.25	15.40	11.55
	60	300	1.5	700	-40 ~ 125	60HFUR-300-ND*	15.13	12.10	9.08
	70	100	1.85	700	-40 ~ 125	70HFL10S02-ND	15.35	12.28	9.21
	70	400	1.85	700	-40 ~ 125	70HFL40S05-ND	15.29	12.24	9.18
	70	800	1.85	700	-40 ~ 125	70HFL80S05-ND	13.94	11.16	8.37
	70	1000	1.85	700	-40 ~ 125	70HFLR100S05-ND*	19.25	15.40	11.55
	70	1000	1.2	730	-40 ~ 150	70HFL100S05-ND	19.25	15.40	10.25
	70	200	1.85	700	-40 ~ 125	70HFLR20S02-ND*	15.92	12.74	9.56
	70	400	1.85	700	-40 ~ 125	70HFLR40S02-ND*	16.80	13.45	10.09
	70	400	1.85	700	-40 ~ 125	70HFLR40S05-ND*	15.29	12.24	9.18
	70	600	1.85	700	-40 ~ 125	70HFLR60S02-ND*	17.71	14.17	10.63
	85	100	1.76	1100	-40 ~ 125	85HFL10S02-ND	15.90	12.72	9.54
	85	200	1.76	1100	-40 ~ 125	85HFL20S02-ND	16.58	13.27	9.95
	85	600	1.76	1100	-40 ~ 125	85HFL60S02-ND	16.52	13.22	9.91
	85	600	1.76	1100	-40 ~ 125	85HFL60S05-ND	21.18	16.94	12.71
	85	1000	1.76	1100	-40 ~ 125	85HFLR100S05-ND*	24.97	19.98	14.99
	85	100	1.76	1100	-40 ~ 125	85HFLR10S02-ND*	15.90	12.72	9.54
	85	200	1.76	1100	-40 ~ 125	85HFLR20S02-ND*	16.58	13.27	9.95
	85	400	1.76	1100	-40 ~ 125	85HFLR40S02-ND*	19.17	15.34	11.51
	85	600	1.76	1100	-40 ~ 125	85HFLR60S02-ND*	22.44	17.96	13.47
	85	600	1.76	1100	-40 ~ 125	85HFLR60S05-ND*	21.18	16.94	12.71
	85	800	1.76	1100	-40 ~ 125	85HFLR80S05-ND*	21.95	17.56	13.17
DPak	8	200	1.2	200	-40 ~ 150	8EWF02S-ND	1.65	1.32	.94
	8	400	1.2	200	-40 ~ 150	8EWF04S-ND	1.71	1.37	.97
	8	600	1.2	200	-40 ~ 150	8EWF06S-ND	1.63	1.30	.96
	8	600	1.2	200	-40 ~ 150	8EWF06STRL-ND	3075.00/3,000		
	8	1000	1.13	170	-40 ~ 150	8EWF10S-ND	1.40	1.13	.99
SMD-220	10	200	1.2	160	-40 ~ 150	10ETF02S-ND	2.31	1.85	1.50
	10	1000	1.33	160	-40 ~ 150	10ETF10S-ND	2.34	1.87	1.41
	10	1200	1.33	160	-40 ~ 150	10ETF12S-ND	2.34	1.88	1.41
	20	200	1.2	355	-40 ~ 150	20ETF02S-ND	3.63	2.91	2.12
	20	400	1.3	250	-40 ~ 150	20ETF04S-ND	3.63	2.91	2.18

* Anode to stud § tp = 8.3ms ‡ IFSM(A) @ tp= 5µs Sine † ***RoHS Compliant***

(Continued)

Input Rectifier Diodes *(Cont.)*

D2Pak

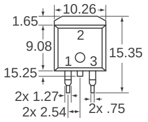

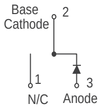

8ET, 15ET

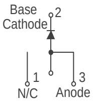

15ETH03S

TO-262

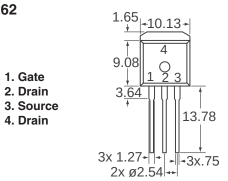

TO-218

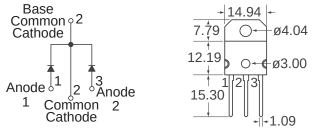

TO-247AC/MOD

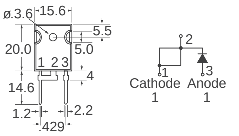

SOT-227

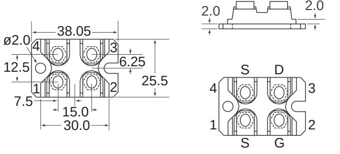

TO-220AB

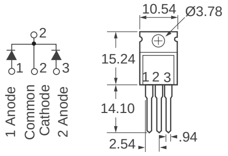

FlipKY™

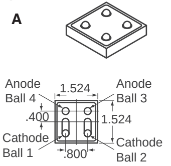

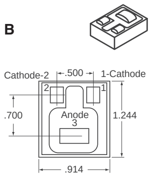

Pkg.	IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp=10ms Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
SMD-220	20	600	1.3	250	-40 ~ 150	20ETF06S-ND	3.15	2.52	1.89
	20	800	1.3	250	-40 ~ 150	20ETF08S-ND	4.02	3.22	2.41
	20	1000	1.3	250	-40 ~ 150	20ETF10S-ND	3.33	2.67	2.00
	20	1200	1.3	250	-40 ~ 150	20ETF12S-ND	4.07	3.26	2.45
TO-220AC	10	200	1.2	150	-40 ~ 150	10ETF02-ND	2.15	1.72	1.29
	10	600	1.2	160	-40 ~ 150	10ETF06-ND	2.90	1.95	1.52
	10	1000	1.2	150	-40 ~ 150	10ETF10-ND	2.17	1.74	1.31
	10	1200	1.2	150	-40 ~ 150	10ETF12-ND	2.64	2.12	1.59
	20	200	1.2	150	-40 ~ 150	20ETF02-ND	3.44	2.75	2.07
	20	600	1.2	150	-40 ~ 150	20ETF06-ND	3.04	2.43	1.83
	20	800	1.2	150	-40 ~ 150	20ETF08-ND	3.44	2.75	2.07
	20	1000	1.2	150	-40 ~ 150	20ETF10-ND	3.14	2.51	1.89
	20	1200	1.2	150	-40 ~ 150	20ETF12-ND	3.82	3.06	2.30
TO-220ACFP	20	200	1.2	300	-40 ~ 150	20ETF02FP-ND	2.35	1.88	1.41
	20	600	1.2	300	-40 ~ 150	20ETF06FP-ND	2.32	1.86	1.39
TO-247AC (B)	30	200	1.2	315	-40 ~ 150	30CPF02-ND	3.99	3.19	2.00
	30	400	1.2	350	-40 ~ 150	30CPF04-ND	3.99	3.19	2.40
	30	600	1.2	350	-40 ~ 150	30CPF06-ND	3.94	3.15	1.94
	30	1000	1.41	350	-40 ~ 150	30CPF10-ND	3.69	2.95	2.22
	60	200	1.3	700	-40 ~ 150	60CPF02-ND	8.11	6.49	4.87
	60	400	1.3	700	-40 ~ 150	60CPF04-ND	6.97	5.58	4.19
	60	1000	1.3	700	-40 ~ 150	60CPF10-ND	7.43	5.94	4.46
	60	1200	1.3	700	-40 ~ 150	60CPF12-ND	8.50	6.80	5.10
TO-247AC/MOD	30	200	1.2	350	-40 ~ 150	30EPF02-ND	3.99	3.19	2.40
	30	600	1.2	350	-40 ~ 150	30EPF06-ND	4.13	3.30	2.48
	30	1000	1.2	350	-40 ~ 150	30EPF10-ND	3.69	2.95	2.22
	30	1200	1.2	350	-40 ~ 150	30EPF12-ND	4.92	3.94	2.96
	40	400	1.25	400	-40 ~ 150	40EPF04-ND	4.54	3.63	2.73
	40	600	1.25	400	-40 ~ 150	40EPF06-ND	4.95	3.96	2.97
	40	1000	1.25	400	-40 ~ 150	40EPF10-ND	5.42	4.34	3.26
	40	1200	1.25	400	-40 ~ 150	40EPF12-ND	5.51	4.41	3.31
	60	200	1.3	700	-40 ~ 150	60EPF02-ND	8.11	6.49	4.87
	60	400	1.3	700	-40 ~ 150	60EPF04-ND	8.11	6.49	4.87
	60	600	1.3	700	-40 ~ 150	60EPF06-ND	8.53	6.82	5.12
	60	1000	1.3	700	-40 ~ 150	60EPF10-ND	7.43	5.94	4.46
	60	1200	1.3	700	-40 ~ 150	60EPF12-ND	6.95	5.57	4.18
	80	200	1.2	800	-40 ~ 150	80EPF02-ND	11.83	9.46	7.10
	80	400	1.2	800	-40 ~ 150	80EPF04-ND	11.83	9.46	7.10
	80	600	1.2	800	-40 ~ 150	80EPF06-ND	11.11	8.89	6.67
	80	1000	1.2	800	-40 ~ 150	80EPF10-ND	10.37	8.30	6.23
	80	1200	1.2	800	-40 ~ 150	80EPF12-ND	11.85	9.49	7.12
TO-252AA	8	1200	1.2	170	-40 ~ 150	8EWF12S-ND	1.82	1.46	1.09
Half-Pak	70	600	1.5	400	-55 ~ 150	HFA70NH60R-ND*	26.03	20.83	15.62
	105	600	1.5	600	-55 ~ 150	HFA105NH60R-ND*	38.33	30.66	23.00
	135	400	1.3	900	-55 ~ 150	HFA135NH40R-ND*	39.60	31.68	23.76
	140	600	1.6	800	-55 ~ 150	HFA140NH60R-ND*	48.60	38.88	29.16
MAGN-A-Pak	250	600	0.98	8000	-40 ~ 150	IRKEL240-06S10-ND	154.68	110.60	99.77
FlipKY (A)	1	40	0.38	250	-55 ~ 150	IR140CSPCT-ND‡	.63	.48	.37
	1	40	0.38	250	-55 ~ 150	IR140CSPTR-ND‡	1830.00/6,000		
FlipKY (B)	0.5	30	0.33	190	-55 ~ 150	IR0530CSPPBFCT-ND‡†	.88	.51	.34
	0.5	30	0.33	190	-55 ~ 150	IR0530CSPPBFTR-ND‡†	1428.00/6,000		
	0.5	40	0.42	190	-55 ~ 150	IR05H40CSPPBFCT-ND‡†	.88	.51	.34
	0.5	40	0.42	190	-55 ~ 150	IR05H40CSPPBFTR-ND‡†	1428.00/6,000		
Ultrafast Diodes									
D2Pak	8	600	2.3	110	-65 ~ 175	8ETX06S-ND	1.97	1.29	.99
	8	600	2.3	110	-65 ~ 175	8ETX06STRLTR-ND	672.80/800		
	8	600	2.3	110	-65 ~ 175	8ETX06STRRTR-ND	672.80/800		
	15	300	1.25	140	-65 ~ 175	15ETH03S-ND	2.04	1.16	.95
	15	600	2.2	120	-65 ~ 175	15ETH06S-ND	1.81	1.03	.84
	15	600	0.99	250	-65 ~ 175	15ETL06S-ND	2.00	1.25	.93
	15	600	2.3	170	-65 ~ 175	15ETX06S-ND	2.19	1.43	1.10
	20	300	1.05	120	-65 ~ 175	20CTH03S-ND	2.73	1.80	1.37
	30	200	0.92	200	-65 ~ 175	30CTH02S-ND	2.95	2.01	1.52
TO-220AC	15	200	1.05	200	-65 ~ 175	MUR1520PBF-ND†	1.82	1.17	.91
	8	200	0.975	100	-65 ~ 175	MUR820PBF-ND†	1.33	.84	.62
	8	300	1.25	100	-65 ~ 175	8ETH03-ND	1.26	.68	.60
	8	300	1.25	100	-65 ~ 175	8ETH03PBF-ND†	1.31	.82	.61
	8	600	0.96	175	-65 ~ 175	8ETL06-ND	1.66	1.04	.75
	8	600	0.96	175	-65 ~ 175	8ETL06PBF-ND†	1.66	1.04	.77

Pkg.	IF (A)	VRRM (V)	VF (V)	IFSM(A) @ tp=10ms Sine	TJ Junction Temp (°C)	Digi-Key Part No.	Price Each 1	10	100
TO-220AC	8	400	1.3	100	-65 ~ 175	8ETU04-ND	1.78	.97	.87
	8	600	2.4	90	-65 ~ 175	8ETH06PBF-ND†	1.56	.98	.73
	8	600	2.3	110	-65 ~ 175	8ETX06-ND	1.86	1.20	.92
	8	600	2.3	110	-65 ~ 175	8ETX06PBF-ND†	2.12	1.33	.99
	15	300	1.25	140	-65 ~ 175	15ETH03PBF-ND†	1.68	1.05	.78
	15	600	2.2	120	-65 ~ 175	15ETH06PBF-ND†	1.51	.97	.76
	15	600	0.99	250	-65 ~ 175	15ETL06-ND	2.19	1.37	1.02
	15	600	0.99	250	-65 ~ 175	15ETL06PBF-ND†	1.99	1.28	1.00
	15	600	2.3	170	-65 ~ 175	15ETX06PBF-ND†	2.24	1.44	1.12
	30	600	2.6	200	-65 ~ 175	30ETH06PBF-ND†	3.71	2.39	1.86
TO-220AB	10	200	1.25	50	-65 ~ 175	MUR1020CTPBF-ND†	1.64	1.06	.82
	16	200	0.975	100	-65 ~ 175	MUR1620CTPBF-ND†	1.61	1.04	.81
	20	200	0.85	100	-65 ~ 175	MUR2020CT-ND	1.17	.94	.71
	20	200	0.85	100	-65 ~ 175	MUR2020CTPBF-ND†	1.64	1.06	.82
	16	400	1.3	100	-65 ~ 175	16CTU04PBF-ND†	2.48	1.55	1.15
	20	300	1.05	120	-65 ~ 175	20CTH03PBF-ND†	2.41	1.55	1.21
	30	200	0.92	200	-65 ~ 175	30CTH02PBF-ND†	2.78	1.79	1.39
	30	300	1.0	150	-65 ~ 175	30CTH03PBF-ND†	2.73	1.76	1.37
TO-262	8	300	1.25	100	-65 ~ 175	8ETH03-1-ND	2.09	1.10	.99
	8	600	0.96	175	-65 ~ 175	8ETL06-1-ND	1.73	1.09	.78
	8	600	0.96	175	-65 ~ 175	8ETL06-1PBF-ND†	1.52	.98	.76
	8	400	1.3	100	-65 ~ 175	8ETU04-1-ND	2.03	1.10	.99
	8	600	2.4	90	-65 ~ 175	8ETH06-1-ND	2.09	1.10	.99
	8	600	2.4	90	-65 ~ 175	8ETH06-1PBF-ND†	1.93	1.24	.97
	8	600	2.3	110	-65 ~ 175	8ETX06-1-ND	1.93	1.26	.97
	8	600	2.3	110	-65 ~ 175	8ETX06-1PBF-ND†	1.96	1.26	.98
	10	200	1.25	50	-65 ~ 175	MU RB1020CT-1PBF-ND†	1.93	1.24	.97
	15	200	1.05	200	-65 ~ 175	MURB1520-1-ND	1.45	1.16	.87
	16	200	0.975	100	-65 ~ 175	MURB1620CT-1-ND	1.19	.96	.72
	16	200	0.975	100	-65 ~ 175	MURB1620CT-1PBF-ND†	1.67	1.08	.84
	20	200	0.85	100	-65 ~ 175	MURB2020CT-1-ND	1.24	.99	.75
	20	200	0.85	100	-65 ~ 175	MURB2020CT-1PBF-ND†	1.73	1.12	.87
	15	300	1.25	140	-65 ~ 175	15ETH03-1-ND	2.31	1.31	1.07
	15	600	2.2	120	-65 ~ 175	15ETH06-1-ND	1.81	1.03	.84
	15	600	0.99	250	-65 ~ 175	15ETL06-1-ND	2.15	1.34	1.00
	15	600	0.99	250	-65 ~ 175	15ETL06-1PBF-ND†	1.95	1.26	.98
	15	600	2.3	170	-65 ~ 175	15ETX06-1-ND	2.35	1.53	1.18
	25	200	—	100	-65 ~ 175	MURB820-1-ND	1.40	.80	.68
	20	300	1.05	120	-65 ~ 175	20CTH03-1-ND	2.98	1.96	1.49
	30	200	0.92	200	-65 ~ 175	30CTH02-1-ND	2.95	2.01	1.52
	30	600	2.6	200	-65 ~ 175	30ETH06-1PBF-ND†	3.39	2.18	1.70
TO-218	35	200	1.09	300	-55 ~ 175	70CRU02-ND	7.39	5.28	4.28
TO-247AC/MOD	30	300	1.25	300	-65 ~ 175	30EPH03PBF-ND†	2.40	1.55	1.21
TO-247AC (A)	30	300	1.25	300	-65 ~ 175	30CPH03PBF-ND†	2.19	1.46	1.17
	30	400	1.25	400	-65 ~ 175	30CPU04PBF-ND†	2.77	1.78	1.39
	30	200	1.05	200	-65 ~ 175	MUR3020WTIR-ND	2.68	2.15	1.61
	30	200	1.05	200	-65 ~ 175	MUR3020WTPBF-ND†	3.21	2.15	1.72
	60	600	1.35	600	-55 ~ 175	60APU06-ND	9.29	6.52	5.22
TO-247AC (B)	60	200	1.08	800	-55 ~ 175	60APU02PBF-ND†	4.47	2.99	2.39
	60	400	1.25	400	-55 ~ 175	60APU04-ND	4.57	3.27	2.65
	60	600	1.35	600	-55 ~ 175	60EPU06-ND	9.29	6.52	5.22
TO-247AC/MOD	60	200	1.08	800	-55 ~ 175	60EPU02PBF-ND†	4.47	2.99	2.39
	60	400	1.25	400	-55 ~ 175	60EPU04-ND	4.31	3.08	2.50
	60	400	1.25	400	-55 ~ 175	60EPU04PBF-ND†	4.61	3.08	2.47
	30	600	2.6	600	-55 ~ 175	30EPH06PBF-ND†	3.24	2.09	1.63
SOT-227	100	400	—	1300	-55 ~ 150	UFB200FA40-ND	29.26	22.61	19.56
	240	200	—	1700	-55 ~ 150	UFB200FA20-ND	27.81	21.49	18.59
PowIRtab	150	200	1.13	1600	-55 ~ 175	150EBU02-ND	13.98	10.07	8.39
	150	400	1.3	1500	-55 ~ 175	150EBU04-ND	9.17	6.61	5.51
TO-220ACFP	8	600	2.4	100	-65 ~ 175	8ETH06FPPBF-ND†	1.68	1.08	.84
	8	600	0.96	175	-65 ~ 175	8ETL06FP-ND	1.81	1.13	.84
	8	600	0.96	175	-65 ~ 175	8ETL06FPPBF-ND†	1.65	1.06	.83
	8	600	2.3	110	-65 ~ 175	8ETX06FP-ND	2.58	1.68	1.30
	8	600	2.3	110	-65 ~ 175	8ETX06FPPBF-ND†	2.66	1.71	1.33
	15	600	2.2	180	-65 ~ 175	15ETH06FPPBF-ND†	1.93	1.24	.97
	15	600	0.99	250	-65 ~ 175	15ETL06FP-ND	2.38	1.52	1.16
	15	600	0.99	250	-65 ~ 175	15ETL06FPPBF-ND†	2.31	1.49	1.16
	15	600	2.3	170	-65 ~ 175	15ETX06FP-ND	2.75	1.81	1.42
	15	600	2.3	170	-65 ~ 175	15ETX06FPPBF-ND†	3.01	1.94	1.51
	20	300	1.05	120	-65 ~ 175	20CTH03FP-ND	2.87	1.89	1.44
	30	200	0.92	200	-65 ~ 175	30CTH02FP-ND	3.04	2.07	1.57

* Anode to stud § tp = 8.3ms ‡ IFSM(A) @ tp= 5µs Sine † ***RoHS Compliant***

DIODES INCORPORATED

Glass Passivated Bridge Rectifiers

Storage Temperature: -65°C ~ 150°C

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Voltage Drop (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
					RH Series						
1	0.5	200	30	1.15	-55 ~ 150	RH02DICT-ND	1.08	.87	.65	RH02DITR-ND	342.00/M
		400	30	1.15	-55 ~ 150	RH04DICT-ND	.96	.77	.58	RH04DITR-ND	319.00/M
		600	30	1.15	-55 ~ 150	RH06DICT-ND	.86	.68	.52	RH06DITR-ND	338.00/M
					HD Series						
1	0.8	100	30	1.0	-55 ~ 150	HD01DICT-ND	.70	.56	.42	HD01DITR-ND	210.00/M
		200	30	1.0	-55 ~ 150	HD02DICT-ND	.60	.48	.36	HD02DITR-ND	200.00/M
		400	30	1.0	-55 ~ 150	HD04DICT-ND	.64	.52	.39	HD04DITR-ND	213.00/M
		600	30	1.0	-55 ~ 150	HD06DICT-ND	.68	.55	.41	HD06DITR-ND	226.00/M

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Forward Voltage (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Tape & Reel Pricing* 1,500
					DF-S Series						
2	1.5	50	50	1.1	-65 ~ 150	DF15005SDICT-ND	.84	.68	.51	.35	305.00/M
		100	50	1.1	-65 ~ 150	DF1501SDICT-ND	.84	.68	.51	.35	305.00/M
		200	50	1.1	-65 ~ 150	DF1502SDICT-ND	.84	.68	.51	.35	305.00/M
		400	50	1.1	-65 ~ 150	DF1504SDICT-ND	.84	.68	.51	.35	305.00/M
		600	50	1.1	-65 ~ 150	DF1506SDICT-ND	.96	.77	.58	.40	348.00/M
		1000	50	1.1	-65 ~ 150	DF1510SDICT-ND	.89	.71	.54	.40	359.00/M

* For Tape and Reel part number, change CT-ND to TR-ND.

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Forward Voltage (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Price Each 1	10	100	500
					DF-S Series					
2	1.0	50	50	1.1	-65 ~ 150	DF005SDI-ND	.76	.61	.46	.32
		100	50	1.1	-65 ~ 150	DF01SDI-ND	.76	.61	.46	.32
		200	50	1.1	-65 ~ 150	DF02SDI-ND	.76	.61	.46	.32
		400	50	1.1	-65 ~ 150	DF04SDI-ND	.76	.61	.46	.32
		600	50	1.1	-65 ~ 150	DF06SDI-ND	.88	.71	.53	.37
		800	50	1.1	-65 ~ 150	DF08SDI-ND	.96	.77	.58	.40
		1000	50	1.1	-65 ~ 150	DF10SDI-ND	.96	.77	.58	.40
					DF-M Series					
3	1.0	50	45	1.1	-65 ~ 150	DF005MDI-ND	.60	.48	.36	.25
		100	45	1.1	-65 ~ 150	DF01MDI-ND	.60	.48	.36	.25
		200	45	1.1	-65 ~ 150	DF02MDI-ND	.60	.48	.36	.25
		400	45	1.1	-65 ~ 150	DF04MDI-ND	.60	.48	.36	.25
		600	45	1.1	-65 ~ 150	DF06MDI-ND	.72	.58	.44	.30
		800	45	1.1	-65 ~ 150	DF08MDI-ND	.80	.64	.48	.33
		1000	45	1.1	-65 ~ 150	DF10MDI-ND	.80	.64	.48	.33
					WxxG Series					
4	1.5	50	50	1.0	-65 ~ 150	W005GDI-ND	.65	.52	.39	.24
		100	50	1.0	-65 ~ 150	W01GDI-ND	.70	.56	.42	.26
		200	50	1.0	-65 ~ 150	W02GDI-ND	.60	.48	.36	.25
		400	50	1.0	-65 ~ 150	W04GDI-ND	.64	.52	.39	.27
		600	50	1.0	-65 ~ 150	W06GDI-ND	.68	.55	.41	.29
		800	50	1.0	-65 ~ 150	W08GDI-ND	.70	.56	.42	.26
		1000	50	1.0	-65 ~ 150	W10GDI-ND	.72	.58	.44	.30
					KBP Series					
5	1.5	50	40	1.1	-55 ~ 125	KBP005G-ND	1.08	.87	.65	.45
		100	40	1.1	-55 ~ 125	KBP01G-ND	.94	.82	.63	.42
		200	40	1.1	-55 ~ 125	KBP02G-ND	.98	.85	.65	.44
		400	40	1.1	-55 ~ 125	KBP04G-ND	1.01	.88	.68	.45
		600	40	1.1	-55 ~ 125	KBP06G-ND	1.05	.91	.70	.47
		800	40	1.1	-55 ~ 125	KBP08G-ND	1.13	.98	.75	.50
		1000	40	1.1	-55 ~ 125	KBP10G-ND	1.20	1.04	.80	.54
	2.0	50	65	1.1	-65 ~ 150	KBP2005GDI-ND	1.08	.87	.65	.45
		100	65	1.1	-65 ~ 150	KBP201GDI-ND	.94	.82	.63	.42
		200	65	1.1	-65 ~ 150	KBP202GDI-ND	.98	.85	.65	.44
		400	65	1.1	-65 ~ 150	KBP204GDI-ND	1.01	.88	.68	.45
		600	65	1.1	-65 ~ 150	KBP206GDI-ND	1.05	.91	.70	.47
		1000	65	1.1	-65 ~ 150	KBP210GDI-ND	1.20	1.04	.80	.54
					GBU Series					
6	4.0	100	150	1.0	-55 ~ 150	GBU401DI-ND	1.35	1.07	.82	.60
		400	150	1.0	-55 ~ 150	GBU404DI-ND	1.42	1.12	.86	.63
		1000	150	1.0	-55 ~ 150	GBU410DI-ND	1.38	1.08	.85	.69
	6.0	100	175	1.0	-55 ~ 150	GBU601DI-ND	1.55	1.23	.94	.69
		400	175	1.0	-55 ~ 150	GBU604DI-ND	1.62	1.28	.98	.72
		1000	175	1.0	-55 ~ 150	GBU610DI-ND	1.51	1.18	.93	.76
	8.0	50	200	1.0	-55 ~ 150	GBU8005DI-ND	1.38	1.08	.85	.69
		100	200	1.0	-55 ~ 150	GBU801DI-ND	1.40	1.10	.87	.71
		200	200	1.0	-55 ~ 150	GBU802DI-ND	1.43	1.12	.88	.72
		400	200	1.0	-55 ~ 150	GBU804DI-ND	1.46	1.14	.90	.73
		600	200	1.0	-55 ~ 150	GBU806DI-ND	1.51	1.18	.93	.76
		1000	200	1.0	-55 ~ 150	GBU810DI-ND	1.70	1.33	1.05	.86
					GBJ Series					
7	6.0	50	170	1.0	-65 ~ 150	GBJ6005DI-ND	1.73	1.35	1.07	.87
		50	170	1.0	-65 ~ 150	GBJ6005-FDI-ND◊	1.92	1.60	1.35	.96
		100	170	1.0	-65 ~ 150	GBJ601DI-ND	1.78	1.39	1.10	.90
		100	170	1.0	-65 ~ 150	GBJ601-FDI-ND◊	1.98	1.65	1.39	.99
		200	170	1.0	-65 ~ 150	GBJ602-FDI-ND◊	2.01	1.68	1.41	1.01
		400	170	1.0	-65 ~ 150	GBJ604DI-ND	1.84	1.43	1.13	.92
		400	170	1.0	-65 ~ 150	GBJ604-FDI-ND◊	2.04	1.70	1.43	1.02
		600	170	1.0	-65 ~ 150	GBJ606DI-ND	1.89	1.47	1.17	.95
		600	170	1.0	-65 ~ 150	GBJ606-FDI-ND◊	2.10	1.75	1.47	1.05
		1000	170	1.0	-65 ~ 150	GBJ610DI-ND	2.05	1.60	1.27	1.03
		1000	170	1.0	-65 ~ 150	GBJ610-FDI-ND◊	2.28	1.90	1.60	1.14
	8.0	50	170	1.0	-65 ~ 150	GBJ8005DI-ND	1.84	1.43	1.13	.92
		50	170	1.0	-65 ~ 150	GBJ8005-FDI-ND◊	2.04	1.70	1.43	1.02
		100	170	1.0	-65 ~ 150	GBJ801DI-ND	1.89	1.47	1.17	.95
		100	170	1.0	-65 ~ 150	GBJ801-FDI-ND◊	2.10	1.75	1.47	1.05
		200	170	1.0	-65 ~ 150	GBJ802DI-ND	1.92	1.50	1.18	.96
		200	170	1.0	-65 ~ 150	GBJ802-FDI-ND◊	2.13	1.78	1.50	1.07
		400	170	1.0	-65 ~ 150	GBJ804-FDI-ND◊	2.16	1.80	1.52	1.08
		600	170	1.0	-65 ~ 150	GBJ806-FDI-ND◊	2.22	1.85	1.56	1.11
		1000	170	1.0	-65 ~ 150	GBJ810DI-ND	2.21	1.73	1.37	1.11
		1000	170	1.0	-65 ~ 150	GBJ810-FDI-ND◊	2.46	2.05	1.73	1.23

◊ RoHS Compliant

Fig. 1 — RH and HD Series

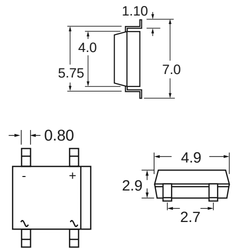

Fig. 2 — DF-S Series

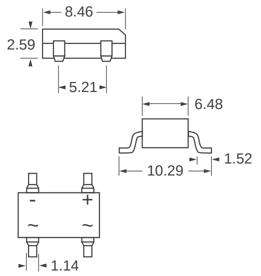

Fig. 3 — DF-M Series

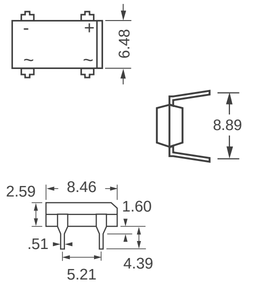

Fig. 4 — WxxG Series

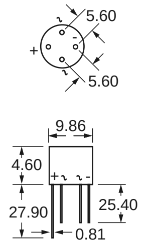

Fig. 5 — KBP Series

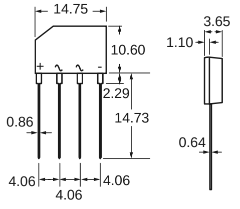

(Continued)

Glass Passivated Bridge Rectifiers *(Cont.)*

Fig.	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Instant. Forward Voltage (V)	Operating Temperature Range (°C)	Digi-Key Part No.	Price Each 1	10	100	500
7	10.0	50	170	1.05	-65 ~ 150	GBJ10005-FDI-ND◊	2.13	1.78	1.50	1.07
		100	170	1.05	-65 ~ 150	GBJ1001-FDI-ND◊	2.19	1.83	1.54	1.10
		200	170	1.05	-65 ~ 150	GBJ1002-FDI-ND◊	2.22	1.85	1.56	1.11
		400	170	1.05	-65 ~ 150	GBJ1004-FDI-ND◊	2.25	1.88	1.58	1.13
		600	170	1.05	-65 ~ 150	GBJ1006DI-ND	2.08	1.62	1.28	1.04
		600	170	1.05	-65 ~ 150	GBJ1006-FDI-ND◊	2.31	1.93	1.62	1.16
		1000	170	1.05	-65 ~ 150	GBJ1010-FDI-ND◊	2.64	2.20	1.85	1.32
	15.0	50	240	1.05	-65 ~ 150	GBJ15005-FDI-ND◊	2.31	1.93	1.62	1.16
		100	240	1.05	-65 ~ 150	GBJ1501-FDI-ND◊	2.40	2.00	1.60	1.20
		200	240	1.05	-65 ~ 150	GBJ1502-FDI-ND◊	2.43	2.03	1.71	1.22
		400	240	1.05	-65 ~ 150	GBJ1504DI-ND	2.21	1.73	1.37	1.11
		400	240	1.05	-65 ~ 150	GBJ1504-FDI-ND◊	2.46	2.05	1.73	1.23
		600	240	1.05	-65 ~ 150	GBJ1506DI-ND	2.27	1.77	1.40	1.14
		600	240	1.05	-65 ~ 150	GBJ1506-FDI-ND◊	2.52	2.10	1.77	1.26
		1000	240	1.05	-65 ~ 150	GBJ1510-FDI-ND◊	2.76	2.30	1.84	1.38
	20.0	50	240	1.05	-65 ~ 150	GBJ20005DI-ND	2.13	1.66	1.32	1.07
		50	240	1.05	-65 ~ 150	GBJ20005-FDI-ND◊	2.37	1.98	1.66	1.19
		100	240	1.05	-65 ~ 150	GBJ2001DI-ND	2.19	1.71	1.35	1.10
		100	240	1.05	-65 ~ 150	GBJ2001-FDI-ND◊	2.43	2.03	1.71	1.22
		200	240	1.05	-65 ~ 150	GBJ2002DI-ND	2.21	1.73	1.37	1.11
		200	240	1.05	-65 ~ 150	GBJ2002-FDI-ND◊	2.46	2.05	1.73	1.23
		400	240	1.05	-65 ~ 150	GBJ2004DI-ND	2.27	1.77	1.40	1.14
		400	240	1.05	-65 ~ 150	GBJ2004-FDI-ND◊	2.52	2.10	1.77	1.26
		600	240	1.05	-65 ~ 150	GBJ2006DI-ND	2.32	1.81	1.43	1.17
		600	240	1.05	-65 ~ 150	GBJ2006-FDI-ND◊	2.58	2.15	1.81	1.29
		1000	240	1.05	-65 ~ 150	GBJ2010-FDI-ND◊	2.79	2.33	1.96	1.40
	25.0	50	350	1.05	-65 ~ 150	GBJ25005DI-ND	2.32	1.81	1.43	1.17
		50	350	1.05	-65 ~ 150	GBJ25005-FDI-ND◊	2.58	2.15	1.81	1.29
		100	350	1.05	-65 ~ 150	GBJ2501DI-ND	2.38	1.85	1.47	1.19
		100	350	1.05	-65 ~ 150	GBJ2501-FDI-ND◊	2.64	2.20	1.85	1.32
		200	350	1.05	-65 ~ 150	GBJ2502-FDI-ND◊	2.73	2.28	1.92	1.37
		400	350	1.05	-65 ~ 150	GBJ2504DI-ND	2.51	1.96	1.55	1.26
		400	350	1.05	-65 ~ 150	GBJ2504-FDI-ND◊	2.79	2.33	1.96	1.40
		600	350	1.05	-65 ~ 150	GBJ2506-FDI-ND◊	2.85	2.38	2.00	1.43
		1000	350	1.05	-65 ~ 150	GBJ2510-FDI-ND◊	2.75	2.40	1.79	1.43
GBPC Series										
8	15.0	50	300	1.1	-65 ~ 150	GBPC15005DI-ND	2.30	1.85	1.50	1.30
		100	300	1.1	-55 ~ 150	GBPC1501DI-ND	2.65	2.13	1.73	1.50
		200	300	1.1	-55 ~ 150	GBPC1502DI-ND	2.76	2.22	1.80	1.56
		400	300	1.1	-55 ~ 150	GBPC1504DI-ND	2.88	2.32	1.88	1.63
		600	300	1.1	-55 ~ 150	GBPC1506DI-ND	2.88	2.32	1.88	1.63
		800	300	1.1	-55 ~ 150	GBPC1508DI-ND	3.11	2.50	2.03	1.76
		1000	300	1.1	-55 ~ 150	GBPC1510DI-ND	3.22	2.59	2.10	1.82
	25.0	100	300	1.1	-55 ~ 150	GBPC2501DI-ND	2.76	2.22	1.80	1.56
		200	300	1.1	-55 ~ 150	GBPC2502DI-ND	2.88	2.32	1.88	1.63
		400	300	1.1	-55 ~ 150	GBPC2504DI-ND	2.88	2.32	1.88	1.63
		600	300	1.1	-55 ~ 150	GBPC2506DI-ND	2.88	2.32	1.88	1.63
		800	300	1.1	-55 ~ 150	GBPC2508DI-ND	3.22	2.59	2.10	1.82
		1000	300	1.1	-55 ~ 150	GBPC2510DI-ND	3.22	2.59	2.10	1.82
	35.0	100	400	1.1	-55 ~ 150	GBPC3501DI-ND	2.99	2.41	1.95	1.69
		200	400	1.1	-55 ~ 150	GBPC3502DI-ND	3.11	2.50	2.03	1.76
		400	400	1.1	-55 ~ 150	GBPC3504DI-ND	3.22	2.59	2.10	1.82
		600	400	1.1	-55 ~ 150	GBPC3506DI-ND	3.22	2.59	2.10	1.82
		800	400	1.1	-55 ~ 150	GBPC3508DI-ND	3.45	2.78	2.25	1.95
		1000	400	1.1	-55 ~ 150	GBPC3510DI-ND	3.57	2.87	2.33	2.02

◊ ***RoHS Compliant***

Fig. 6 — GBU Series

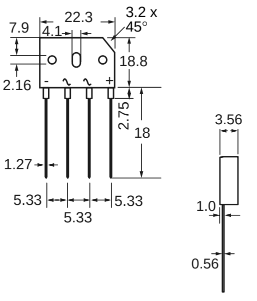

Fig. 7 — GBJ Series

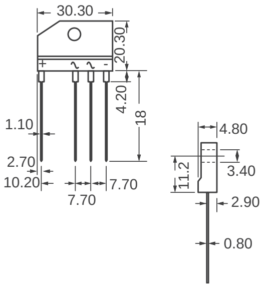

Fig. 8 — GBPC Series

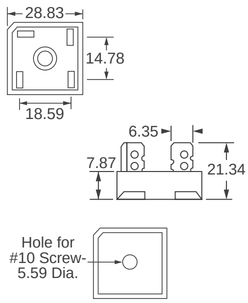

Bridge Rectifiers

Fig.	Max. Average Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (µA)	Max. Forward Voltage Peak (V)	Digi-Key Part No.	Price Each 1	10	100	500
1	4.0	50	200	10.0	1.0	RS401LDI-ND	1.32	1.04	.80	.58
		100	200	10.0	1.0	RS402LDI-ND	1.50	1.30	1.00	.67
		100	200	10.0	1.0	RS402LDI-FDI-ND◊	1.50	1.30	1.01	.67
		400	200	10.0	1.0	RS404LDI-ND	1.32	1.04	.80	.58
		600	200	10.0	1.0	RS405LDI-ND	1.32	1.04	.80	.58
		600	200	10.0	1.0	RS405LDI-FDI-ND◊	1.50	1.25	1.05	.75
2	6.0	50	200	10.0	1.0	PB605DI-ND	1.49	1.17	.90	.66
		100	200	10.0	1.0	PB61DI-ND	1.49	1.17	.90	.66
		200	200	10.0	1.0	PB62-FDI-ND◊	1.69	1.47	1.13	.75
		600	200	10.0	1.0	PB66DI-ND	1.49	1.17	.90	.66
3	15.0	50	300	10.0	1.1	MB1505-ND	2.30	1.85	1.50	1.30
		100	300	10.0	1.1	MB151-FDI-ND◊	2.84	2.47	1.84	1.47
		200	300	10.0	1.1	MB152-ND	2.53	2.04	1.65	1.43
		200	300	10.0	1.1	MB152-FDI-ND◊	2.97	2.59	1.93	1.54
		600	300	10.0	1.1	MB156W-FDI-ND†◊	3.11	2.71	2.02	1.61
	25.0	100	300	10.0	1.1	MB251-FDI-ND◊	2.97	2.59	1.93	1.54
		200	300	10.0	1.1	MB252-ND	2.65	2.13	1.73	1.50
		200	300	10.0	1.1	MB252-FDI-ND◊	3.11	2.71	2.02	1.61
		400	300	10.0	1.1	MB254-ND	3.24	2.82	2.10	1.68
		600	300	10.0	1.1	MB256DI-ND◊	3.38	2.94	2.19	1.75
		50	400	10.0	1.2	MB3505-FDI-ND◊	2.97	2.59	1.93	1.54
	35.0	100	400	10.0	1.2	MB351-FDI-ND◊	2.65	2.13	1.73	1.50
		200	400	10.0	1.2	MB352-ND	2.76	2.22	1.80	1.56
		200	400	10.0	1.2	MB352-FDI-ND◊	3.24	2.82	2.10	1.68
		200	400	10.0	1.2	MB352W-FDI-ND†◊	3.24	2.82	2.10	1.68
		400	400	10.0	1.2	MB354-ND	2.88	2.32	1.88	1.63
		600	400	10.0	1.2	MB356-FDI-ND◊	3.51	3.06	2.28	1.82

◊ ***RoHS Compliant*** † Wire leads

Fig. 1

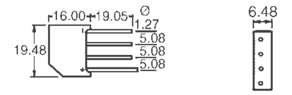

Fig. 2

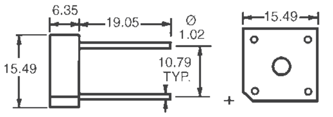

Fig. 3

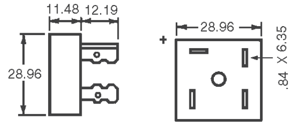

DIODES INCORPORATED™

Silicon and Glass Passivated Rectifiers

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (Vrrm)	Max. Surge Current 8.3ms (A)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel	
						1	10	100	1,000		Size	Pricing
1	0.2	250	—	1.0	BAV21DICT-ND	.31	1.80	11.70	48.60	—	—	—
2	1.0	50	30	1.1	1N4001DICT-ND	.26	1.36	7.65	27.63	1N4001DITR-ND	5,000	20.00/M
		100	30	1.1	1N4002DICT-ND	.26	1.36	7.65	27.63	1N4002DITR-ND	5,000	20.00/M
		200	30	1.1	1N4003DICT-ND	.26	1.36	7.65	27.63	1N4003DITR-ND	5,000	20.00/M
		400	30	1.1	1N4004DICT-ND	.26	1.36	7.65	27.63	1N4004DITR-ND	5,000	20.00/M
		600	30	1.1	1N4005DICT-ND	.26	1.36	7.65	27.63	1N4005DITR-ND	5,000	20.00/M
		800	30	1.1	1N4006DICT-ND	.26	1.36	7.65	27.63	1N4006DITR-ND	5,000	20.00/M
		1000	30	1.1	1N4007DICT-ND	.26	1.36	7.65	27.63	1N4007DITR-ND	5,000	20.00/M
		50	30	1.0	1N4001GDICT-ND	.37	2.20	14.30	59.40	1N4001GDITR-ND	5,000	44.00/M
		100	30	1.0	1N4002GDICT-ND	.41	2.40	15.60	64.80	1N4002GDITR-ND	5,000	48.00/M
		200	30	1.0	1N4003GDICT-ND	.44	2.60	16.90	70.20	1N4003GDITR-ND	5,000	52.00/M
		400	30	1.0	1N4004GDICT-ND	.46	2.70	17.55	72.90	1N4004GDITR-ND	5,000	54.00/M
		600	30	1.0	1N4005GDICT-ND	.49	2.90	18.85	78.30	1N4005GDITR-ND	5,000	58.00/M
		800	30	1.0	1N4006GDICT-ND	.34	2.33	16.12	71.30	1N4006GDITR-ND	5,000	56.00/M
		1000	30	1.0	1N4007GDICT-ND	.36	2.48	17.16	75.90	1N4007GDITR-ND	5,000	59.00/M
3	1.0	50	30	1.1	S1AB-FDICT-ND◊	.43	3.13	22.00	100.00	S1AB-FDITR-ND◊	3,000	90.00/M
		100	30	1.1	S1BB-FDICT-ND◊	.44	3.25	22.88	104.00	S1BB-FDITR-ND◊	3,000	94.00/M
		200	30	1.1	S1DB-FDICT-ND◊	.46	3.38	23.76	108.00	S1DB-FDITR-ND◊	3,000	97.00/M
		400	30	1.1	S1GBDICT-ND	.48	3.50	24.64	112.00	S1GBDITR-ND	3,000	101.00/M
		400	30	1.1	S1GB-FDICT-ND◊	.48	3.50	24.64	112.00	S1GB-FDITR-ND◊	3,000	101.00/M
		600	30	1.1	S1JB-FDICT-ND◊	.49	3.63	25.52	116.00	S1JB-FDITR-ND◊	3,000	104.00/M
		800	30	1.1	S1KB-FDICT-ND◊	.39	3.00	21.60	108.00	S1KB-FDITR-ND◊	3,000	102.00/M
		1000	30	1.1	S1MB-FDICT-ND◊	.44	3.40	24.48	122.40	S1MB-FDITR-ND◊	3,000	116.00/M
4	1.0	50	30	1.1	DL4001DICT-ND	.43	2.93	20.28	89.70	DL4001DITR-ND	5,000	70.00/M
		50	30	1.1	DL4001-FDICT-ND◊	.43	2.93	20.28	89.70	DL4001-FDITR-ND◊	5,000	70.00/M
		100	30	1.1	DL4002DICT-ND	.43	2.93	20.28	89.70	DL4002DITR-ND	5,000	70.00/M
		100	30	1.1	DL4002-FDICT-ND◊	.43	2.93	20.28	89.70	DL4002-FDITR-ND◊	5,000	70.00/M
		200	30	1.1	DL4003DICT-ND	.43	2.93	20.28	89.70	—	—	—
		200	30	1.1	DL4003-FDICT-ND◊	.43	2.93	20.28	89.70	DL4003-FDITR-ND◊	5,000	70.00/M
		400	30	1.1	DL4004DICT-ND	.43	2.93	20.28	89.70	DL4004DITR-ND	5,000	70.00/M
		400	30	1.1	DL4004-FDICT-ND◊	.43	2.93	20.28	89.70	DL4004-FDITR-ND◊	5,000	70.00/M
		600	30	1.1	DL4005DICT-ND	.46	3.15	21.84	96.60	DL4005DITR-ND	5,000	76.00/M
		600	30	1.1	DL4005-FDICT-ND◊	.46	3.15	21.84	96.60	DL4005-FDITR-ND◊	5,000	76.00/M
		800	30	1.1	DL4006DICT-ND	.46	3.15	21.84	96.60	DL4006DITR-ND	5,000	76.00/M
		800	30	1.1	DL4006-FDICT-ND◊	.46	3.15	21.84	96.60	DL4006-FDITR-ND◊	5,000	76.00/M
		1000	30	1.1	DL4007DICT-ND	.46	3.15	21.84	96.60	DL4007DITR-ND	5,000	76.00/M
		1000	30	1.1	DL4007-FDICT-ND◊	.46	3.15	21.84	96.60	DL4007-FDITR-ND ◊	5,000	76.00/M
5	1.0	50	30	1.0	S1A-FDICT-ND◊	.47	3.23	22.36	98.90	S1A-FDITR-ND◊	5,000	77.00/M
		100	30	1.1	S1B-FDICT-ND◊	.48	3.30	22.88	101.20	S1B-FDITR-ND◊	5,000	79.00/M
		200	30	1.0	S1DDICT-ND	.38	2.81	19.80	90.00	S1DDITR-ND	5,000	77.00/M
		200	30	1.0	S1D-FDICT-ND◊	.38	2.81	19.80	90.00	S1D-FDITR-ND◊	5,000	77.00/M
		400	30	1.0	S1GDICT-ND	.39	2.88	20.24	92.00	S1GDITR-ND	5,000	78.00/M
		400	30	1.0	S1G-FDICT-ND◊	.39	2.88	20.24	92.00	S1G-FDITR-ND◊	5,000	78.00/M
		600	30	1.1	S1J-FDICT-ND◊	.41	3.00	21.12	96.00	S1J-FDITR-ND◊	5,000	82.00/M
		800	30	1.0	S1K-FDICT-ND◊	.47	3.44	24.20	110.00	S1K-FDITR-ND◊	5,000	94.00/M
		1000	30	1.0	S1MDICT-ND	.41	3.15	22.68	113.40	—	—	—
		1000	30	1.0	S1M-FDICT-ND◊	.41	3.15	22.68	113.40	S1M-FDITR-ND◊	5,000	101.00/M
	1.5	50	50	1.15	S2AADICT-ND	.39	3.00	21.60	108.00	—	—	—
		50	50	1.15	S2AA-FDICT-ND◊	.39	3.00	21.60	108.00	S2AA-FDITR-ND◊	5,000	96.00/M
		100	50	1.15	S2BADICT-ND	.39	3.00	21.60	108.00	S2BADITR-ND	5,000	96.00/M
		100	50	1.15	S2BA-FDICT-ND◊	.39	3.00	21.60	108.00	S2BA-FDITR-ND◊	5,000	96.00/M
		200	50	1.15	S2DADICT-ND	.39	3.00	21.60	108.00	—	—	—
		200	50	1.15	S2DA-FDICT-ND◊	.39	3.00	21.60	108.00	S2DA-FDITR-ND◊	5,000	96.00/M
		400	50	1.15	S2GADICT-ND	.39	3.00	21.60	108.00	S2GADITR-ND	5,000	96.00/M
		400	50	1.15	S2GA-FDICT-ND◊	.39	3.00	21.60	108.00	S2GA-FDITR-ND◊	5,000	96.00/M
		600	50	1.15	S2JADICT-ND	.46	3.50	25.20	126.00	S2JADITR-ND	5,000	112.00/M
		600	50	1.15	S2JA-FDICT-ND◊	.46	3.50	25.20	126.00	S2JA-FDITR-ND◊	5,000	112.00/M
		800	50	1.15	S2KA-FDICT-ND◊	.46	3.50	25.20	126.00	S2KA-FDITR-ND◊	5,000	112.00/M
		1000	50	1.15	S2MADICT-ND	.46	3.50	25.20	126.00	S2MADITR-ND	5,000	112.00/M
		1000	50	1.15	S2MA-FDICT-ND◊	.46	3.50	25.20	126.00	S2MA-FDITR-ND◊	5,000	112.00/M
6	1.5	50	30	1.5	S2ADICT-ND	.43	3.13	22.00	100.00	—	—	—
		50	30	1.5	S2A-FDICT-ND◊	.43	3.13	22.00	100.00	S2A-FDITR-ND◊	3,000	90.00/M
		100	30	1.5	S2B-FDICT-ND◊	.43	3.13	22.00	100.00	S2B-FDITR-ND◊	3,000	90.00/M
		200	30	1.5	S2DDICT-ND	.43	3.13	22.00	100.00	S2DDITR-ND	3,000	90.00/M
		200	30	1.5	S2D-FDICT-ND◊	.43	3.13	22.00	100.00	S2D-FDITR-ND◊	3,000	90.00/M
		400	30	1.5	S2GDICT-ND	.43	3.13	22.00	100.00	S2GDITR-ND	3,000	90.00/M
		400	30	1.5	S2G-FDICT-ND◊	.43	3.13	22.00	100.00	S2G-FDITR-ND◊	3,000	90.00/M
		600	30	1.5	S2JDICT-ND	.39	3.00	21.60	108.00	S2JDITR-ND	3,000	102.00/M
		600	30	1.5	S2J-FDICT-ND◊	.39	3.00	21.60	108.00	S2J-FDITR-ND◊	3,000	102.00/M
		800	50	1.15	S2KDICT-ND	.39	3.00	21.60	108.00	S2KDITR-ND	3,000	102.00/M
		800	50	1.15	S2K-FDICT-ND◊	.39	3.00	21.60	108.00	S2K-FDITR-ND◊	3,000	102.00/M
		1000	30	1.5	S2M-FDICT-ND◊	.39	3.00	21.60	108.00	S2M-FDITR-ND◊	3,000	102.00/M
	3.0	50	100	1.15	S3ABDICT-ND	.65	5.20	39.00	208.00	S3ABDITR-ND	3,000	195.00/M
		50	100	1.15	S3AB-FDICT-ND◊	.65	5.20	39.00	208.00	S3AB-FDITR-ND◊	3,000	195.00/M
		100	100	1.15	S3BBDICT-ND	.65	5.20	39.00	208.00	—	—	—
		100	100	1.15	S3BB-FDICT-ND◊	.65	5.20	39.00	208.00	S3BB-FDITR-ND◊	3,000	195.00/M
		200	100	1.15	S3DB-FDICT-ND◊	.65	5.20	39.00	208.00	S3DB-FDITR-ND◊	3,000	195.00/M
		400	100	1.15	S3GB-FDICT-ND◊	.65	5.20	39.00	208.00	S3GB-FDITR-ND◊	3,000	195.00/M
		600	100	1.15	S3JBDICT-ND	.68	5.44	40.80	246.50	S3JBDITR-ND	3,000	226.00/M
		600	100	1.15	S3JB-FDICT-ND◊	.77	6.12	45.90	263.50	S3JB-FDITR-ND◊	3,000	242.00/M
		800	100	1.15	S3KBDICT-ND	.68	5.44	40.80	246.50	S3KBDITR-ND	3,000	226.00/M
		800	100	1.15	S3KB-FDICT-ND◊	.77	6.12	45.90	263.50	S3KB-FDITR-ND◊	3,000	242.00/M
		1000	100	1.15	S3MB-FDICT-ND◊	.77	6.12	45.90	263.50	S3MB-FDITR-ND◊	3,000	242.00/M
7	3.0	50	100	1.15	S3ADICT-ND	.70	5.60	42.00	224.00	—	—	—
		50	100	1.15	S3A-FDICT-ND◊	.70	5.60	42.00	224.00	S3A-FDITR-ND◊	3,000	210.00/M
		100	100	1.15	S3B-FDICT-ND◊	.70	5.60	42.00	224.00	S3B-FDITR-ND◊	3,000	210.00/M
		200	100	1.15	S3DDICT-ND	.70	5.60	42.00	224.00	—	—	—
		200	100	1.15	S3D-FDICT-ND◊	.70	5.60	42.00	224.00	S3D-FDITR-ND◊	3,000	196.00/M
		400	100	1.15	S3GDICT-ND	.70	5.60	42.00	224.00	S3GDITR-ND	3,000	210.00/M
		400	100	1.15	S3G-FDICT-ND◊	.70	5.60	42.00	224.00	S3G-FDITR-ND◊	3,000	210.00/M
		600	100	1.15	S3JDICT-ND	.72	5.76	43.20	261.00	S3JDITR-ND	3,000	239.00/M
		600	100	1.15	S3J-FDICT-ND◊	.81	6.48	48.60	279.00	S3J-FDITR-ND◊	3,000	257.00/M
		800	100	1.15	S3KDICT-ND	.72	5.76	43.20	261.00	S3KDITR-ND	3,000	239.00/M
		800	100	1.15	S3K-FDICT-ND◊	.81	6.48	48.60	279.00	S3K-FDITR-ND◊	3,000	257.00/M
		1000	100	1.15	S3MDICT-ND	.72	5.76	43.20	261.00	—	—	—
		1000	100	1.15	S3M-FDICT-ND◊	.81	6.48	48.60	279.00	S3M-FDITR-ND◊	3,000	257.00/M

◊ ***RoHS Compliant***

(Continued)

Fig. 1 — DO-35

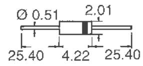

Fig. 2 — DO-41

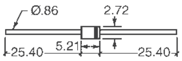

Fig. 3 — SMB

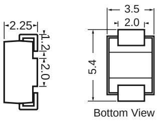

Fig. 4 — MELF (DL-41)

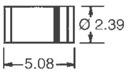

Fig. 5 — SMA

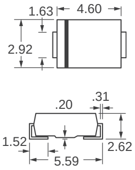

Fig. 6 — SMB

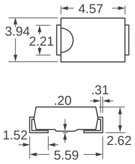

Fig. 7 — SMC

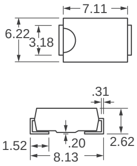

Fig. 8 — DO-15

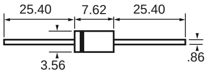

DIODES INCORPORATED

Silicon and Glass Passivated Rectifiers *(Cont.)*

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (Vrrm)	Max. Surge Current 8.3ms (A)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel	
						1	10	100	1,000		Size	Pricing
7	5.0	50	100	1.15	S5AC-FDICT-ND◊	.72	5.76	43.20	248.00	S5AC-FDITR-ND◊	3,000	228.00/M
		100	100	1.15	S5BC-FDICT-ND◊	.77	6.12	45.90	263.50	S5BC-FDITR-ND◊	3,000	242.00/M
		200	100	1.15	S5DC-FDICT-ND◊	.81	6.48	48.60	279.00	S5DC-FDITR-ND◊	3,000	257.00/M
		400	100	1.15	S5GC-FDICT-ND◊	.90	7.20	54.00	310.00	S5GC-FDITR-ND◊	3,000	285.00/M
		600	100	1.15	S5JCDICT-ND	.84	6.72	50.40	—	—	—	—
		600	100	1.15	S5JC-FDICT-ND◊	.95	7.56	56.70	325.50	S5JC-FDITR-ND◊	3,000	299.00/M
		800	100	1.15	S5KCDICT-ND	.92	7.36	55.20	—	S5KCDITR-ND	3,000	306.00/M
		800	100	1.15	S5KC-FDICT-ND◊	1.04	8.28	62.10	356.50	S5KC-FDITR-ND◊	3,000	328.00/M
		1000	100	1.15	S5MCDICT-ND	.83	6.50	50.00	—	S5MCDITR-ND	3,000	325.00/M
		1000	100	1.15	S5MC-FDICT-ND◊	.94	8.13	62.50	362.50	S5MC-FDITR-ND◊	3,000	333.00/M
8	2.0	200	70	1.0	RL203DICT-ND	.49	2.90	18.85	78.30	RL203DITR-ND	4,000	68.00/M
		400	70	1.0	RL204DICT-ND	.34	2.33	16.12	71.30	RL204DITR-ND	4,000	62.00/M
		600	70	1.0	RL205DICT-ND	.35	2.40	16.64	73.60	RL205DITR-ND	4,000	64.00/M
		800	70	1.0	RL206DICT-ND	.39	2.63	18.20	80.50	RL206DITR-ND	4,000	70.00/M
		1000	70	1.0	RL207DICT-ND	.40	2.70	18.72	82.80	RL207DITR-ND	4,000	72.00/M
9	3.0	50	200	0.95	1N5400DICT-ND	.41	2.78	19.24	—	1N5400DITR-ND	1,200	85.00/M
		100	200	0.95	1N5401DICT-ND	.41	2.78	19.24	—	1N5401DITR-ND	1,200	85.00/M
		200	200	0.95	1N5402DICT-ND	.41	2.78	19.24	—	1N5402DITR-ND	1,200	85.00/M
		400	200	0.95	1N5404DICT-ND	.41	2.78	19.24	—	1N5404DITR-ND	1,200	85.00/M
		600	200	0.95	1N5406DICT-ND	.41	2.78	19.24	—	1N5406DITR-ND	1,200	85.00/M
		800	200	0.95	1N5407DICT-ND	.41	2.78	19.24	—	1N5407DITR-ND	1,200	85.00/M
		1000	200	0.95	1N5408DICT-ND	.41	2.78	19.24	—	1N5408DITR-ND	1,200	85.00/M
		50	125	1.0	1N5400GDICT-ND	.47	3.60	25.92	—	1N5400GDITR-ND	1,200	130.00/M
		100	125	1.0	1N5401GDICT-ND	.48	3.70	26.64	—	1N5401GDITR-ND	1,200	133.00/M
		200	125	1.0	1N5402GDICT-ND	.50	3.85	27.72	—	1N5402GDITR-ND	1,200	139.00/M
		400	125	1.0	1N5404GDICT-ND	.53	4.10	29.52	—	1N5404GDITR-ND	1,200	148.00/M
		600	125	1.0	1N5406GDICT-ND	.58	4.45	32.04	—	1N5406GDITR-ND	1,200	160.00/M
		800	125	1.0	1N5407GDICT-ND	.46	3.64	27.30	—	1N5407GDITR-ND	1,200	146.00/M
		1000	125	1.0	1N5408GDICT-ND	.51	4.04	30.30	—	1N5408GDITR-ND	1,200	162.00/M
10	6.0	50	400	0.9	6A05DICT-ND	.48	3.80	28.50	—	6A05DITR-ND	500	85.50
		100	400	0.9	6A1DICT-ND	.48	3.80	28.50	—	6A1DITR-ND	500	85.50
		200	400	0.9	6A2DICT-ND	.48	3.80	28.50	—	6A2DITR-ND	500	85.50
		400	400	0.9	6A4DICT-ND	.48	3.80	28.50	—	6A4DITR-ND	500	85.50
		600	400	0.9	6A6DICT-ND	.48	3.80	28.50	—	6A6DITR-ND	500	85.50
		800	400	0.9	6A8DICT-ND	.48	3.80	28.50	—	6A8DITR-ND	500	85.50
		1000	400	0.9	6A10DICT-ND	.48	3.80	28.50	—	6A10DITR-ND	500	85.50
11	1.0	200	25	1.1	DFLR1200DICT-ND◊	.60	4.80	36.00	192.00	DFLR1200DITR-ND◊	3,000	180.00/M
		400	25	1.1	DFLR1400DICT-ND◊	.60	4.80	36.00	192.00	DFLR1400DITR-ND◊	3,000	180.00/M
12	3.0	400	100	1.15	PDR3GDICT-ND◊	.81	6.48	48.60	279.00	PDR3GDITR-ND◊	5,000	243.00/M
	5.0	400	100	1.15	PDR5GDICT-ND◊	.95	7.56	56.70	325.50	PDR5GDITR-ND◊	5,000	284.00/M

◊ ***RoHS Compliant***

Fig. 9 — DO-201AD

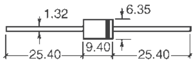

Fig. 10 — R-6

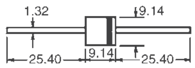

Fig. 11 — *PowerDI™123*

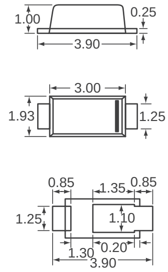

Fig. 12 — *PowerDI™5*

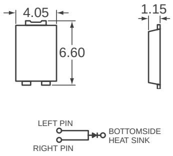

Schottky Barrier Rectifiers

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
							1	10	100		Size	Pricing
1	1.0	20	25	1.0	0.45	1N5817DICT-ND	.39	.30	.22	1N5817DITR-ND	5,000	96.00/M
		20	40	1.0	0.55	SR102DICT-ND	.49	.38	.27	SR102DITR-ND	5,000	120.00/M
		30	25	1.0	0.55	1N5818DICT-ND	.39	.30	.22	1N5818DITR-ND	5,000	96.00/M
		30	40	1.0	0.55	SR103DICT-ND	.49	.38	.27	SR103DITR-ND	5,000	120.00/M
		40	40	1.0	0.55	SR104DICT-ND	.49	.38	.27	SR104DITR-ND	5,000	120.00/M
		50	40	1.0	0.70	SR105DICT-ND	.52	.40	.29	SR105DITR-ND	5,000	128.00/M
		60	40	1.0	0.70	SR106DICT-ND	.53	.42	.32	SR106DITR-ND	5,000	147.00/M
		100	25	0.5	0.80	SB1100DICT-ND	.55	.44	.33	SB1100DITR-ND	5,000	154.00/M
2	3.0	20	80	2.0	0.475	1N5820DICT-ND	.68	.54	.41	1N5820DITR-ND	1,200	216.00/M
		20	150	3.0	0.55	SR302DICT-ND	.60	.48	.36	SR302DITR-ND	1,200	218.00/M
		30	80	2.0	0.500	1N5821DICT-ND	.68	.54	.41	1N5821DITR-ND	1,200	216.00/M
		40	80	2.0	0.525	1N5822DICT-ND	.68	.54	.41	1N5822DITR-ND	1,200	216.00/M
		40	150	3.0	0.55	SR304DICT-ND	.60	.48	.36	SR304DITR-ND	1,200	218.00/M
		40	150	3.0	0.55	SR304-FDICT-ND◊	.68	.54	.41	SR304-FDITR-ND◊	1,200	233.00/M
		50	150	3.0	0.75	SR305DICT-ND	.64	.52	.39	SR305DITR-ND	1,200	232.00/M
		60	150	3.0	0.75	SR306DICT-ND	.68	.55	.41	SR306DITR-ND	1,200	247.00/M
		100	80	0.5	0.80	SB3100DICT-ND	.80	.64	.48	SB3100DITR-ND	1,200	290.00/M
	5.0	20	250	10.0	0.57	SR502DICT-ND	.88	.71	.53	SR502DITR-ND	1,200	319.00/M
		20	250	10.0	0.57	SR502-FDICT-ND◊	.99	.80	.60	SR502-FDITR-ND◊	1,200	341.00/M
		30	250	10.0	0.57	SR503DICT-ND	.92	.74	.56	SR503DITR-ND	1,200	334.00/M
		40	250	10.0	0.57	SR504DICT-ND	.96	.77	.58	SR504DITR-ND	1,200	348.00/M
		50	150	1.0	0.67	SR505DICT-ND	.65	.52	.39	SR505DITR-ND	1,200	208.00/M
		60	150	1.0	0.67	SR506DICT-ND	.65	.52	.39	SR506DITR-ND	1,200	208.00/M
		100	150	0.5	0.80	SB5100DICT-ND	1.12	.89	.68	SB5100DITR-ND	1,200	452.00/M
3	1.0	20	30	0.5	0.50	B120-FDICT-ND◊	.55	.44	.33	B120-FDITR-ND◊	5,000	154.00/M
		30	30	0.5	0.50	B130DICT-ND	.58	.46	.35	B130DITR-ND	5,000	161.00/M
		30	30	0.5	0.50	B130-FDICT-ND◊	.58	.46	.35	B130-FDITR-ND◊	5,000	161.00/M
		30	25	1.0	0.41	B130L-FDICT-ND◊	.68	.54	.41	B130L-FDITR-ND◊	5,000	189.00/M
		40	30	0.5	0.50	B140DICT-ND	.60	.48	.36	B140DITR-ND	5,000	168.00/M
		40	30	0.5	0.50	B140-FDICT-ND◊	.60	.48	.36	B140-FDITR-ND◊	5,000	168.00/M
		50	30	0.5	0.70	B150-FDICT-ND◊	.70	.56	.42	B150-FDITR-ND◊	5,000	209.00/M
		60	30	0.5	0.70	B160-FDICT-ND◊	.86	.69	.52	B160-FDITR-ND◊	5,000	257.00/M
		70	30	0.5	0.79	B170-FDICT-ND◊	.88	.71	.53	B170-FDITR-ND◊	5,000	263.00/M
		80	30	0.5	0.79	B180DICT-ND	.80	.64	.48	B180DITR-ND	5,000	255.00/M
		80	30	0.5	0.79	B180-FDICT-ND◊	.90	.72	.54	B180-FDITR-ND◊	5,000	270.00/M
		90	30	0.5	0.79	B190-FDICT-ND◊	.92	.74	.56	B190-FDITR-ND◊	5,000	277.00/M
		100	30	0.5	0.79	B1100-FDICT-ND◊	.84	.68	.51	B1100-FDITR-ND◊	5,000	268.00/M
	2.0	20	50	0.5	0.50	B220A-FDICT-ND◊	.86	.69	.52	B220A-FDITR-ND◊	5,000	257.00/M
		30	50	0.5	0.50	B230ADICT-ND	.82	.66	.50	B230ADITR-ND◊	5,000	261.00/M
		30	50	0.5	0.50	B230A-FDICT-ND◊	.92	.74	.56	B230A-FDITR-ND◊	5,000	277.00/M
		40	50	0.5	0.50	B240A-FDICT-ND◊	.86	.69	.52	B240A-FDITR-ND◊	5,000	274.00/M
		50	50	0.5	0.70	B250A-FDICT-ND◊	1.01	.81	.61	B250A-FDITR-ND◊	5,000	304.00/M
		60	50	0.5	0.70	B260A-FDICT-ND◊	1.08	.87	.65	B260A-FDITR-ND◊	5,000	324.00/M

◊ ***RoHS Compliant***

Fig. 1 — DO-41

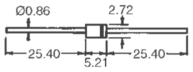

Fig. 2 — DO-201AD

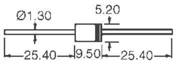

Fig. 3 — SMA

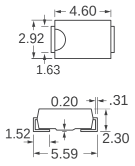

Fig. 4 — SMB

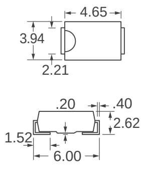

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Schottky Barrier Rectifiers *(Cont.)*

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
3	3.0	20	100	0.5	0.50	B320A-FDICT-ND◊	.96	.77	.58	B320A-FDITR-ND◊	5,000	306.00/M
		30	100	0.5	0.50	B330ADICT-ND	.83	.65	.50	B330ADITR-ND	5,000	319.00/M
		30	100	0.5	0.50	B330A-FDICT-ND◊	.94	.82	.63	B330A-FDITR-ND◊	5,000	319.00/M
		40	100	0.5	0.50	B340A-FDICT-ND◊	.98	.85	.65	B340A-FDITR-ND◊	5,000	332.00/M
		40	70	1.0	0.35	B340LA-FDICT-ND◊	.98	.85	.65	B340LA-FDITR-ND◊	5,000	332.00/M
		50	100	0.5	0.70	B350A-FDICT-ND◊	1.20	1.04	.80	B350A-FDITR-ND◊	5,000	408.00/M
		60	100	0.5	0.7	B360A-FDICT-ND◊	1.31	1.14	.88	B360A-FDITR-ND◊	5,000	446.00/M
4	1.0	20	30	0.5	0.50	B120B-FDICT-ND◊	.63	.50	.38	B120B-FDITR-ND◊	3,000	188.00/M
		20	30	0.5	1.1	SK12DICT-ND	.63	.50	.38	SK12DITR-ND	3,000	188.00/M
		20	30	0.5	1.1	SK12-FDICT-ND◊	.63	.50	.38	SK12-FDITR-ND◊	3,000	188.00/M
		30	30	0.5	0.50	B130BDICT-ND	.65	.52	.39	B130BDITR-ND	3,000	195.00/M
		30	30	0.5	0.50	B130B-FDICT-ND◊	.65	.52	.39	B130B-FDITR-ND◊	3,000	195.00/M
		30	40	1.0	.445	B130LBDICT-ND	.70	.56	.42	—	—	—
		30	40	1.0	.445	B130LB-FDICT-ND◊	.70	.56	.42	B130LB-FDITR-ND◊	3,000	210.00/M
		30	25	0.5	0.55	SK13-FDICT-ND◊	.68	.54	.41	SK13-FDITR-ND◊	3,000	203.00/M
		40	30	0.5	0.50	B140B-FDICT-ND◊	.68	.54	.41	B140B-FDITR-ND◊	3,000	203.00/M
		40	45	0.1	0.53	B140HBDICT-ND	.73	.58	.44	B140HBDITR-ND	3,000	218.00/M
		40	45	0.1	0.53	B140HB-FDICT-ND◊	.73	.58	.44	B140HB-FDITR-ND◊	3,000	218.00/M
		40	25	0.5	0.55	SK14-FDICT-ND◊	.68	.54	.41	SK14-FDITR-ND◊	3,000	214.00/M
		50	30	0.5	0.50	B150B-FDICT-ND◊	.79	.63	.48	B150B-FDITR-ND◊	3,000	249.00/M
		50	25	0.5	0.70	SK15DICT-ND	.70	.56	.42	SK15DITR-ND	3,000	233.00/M
		50	25	0.5	0.70	SK15-FDICT-ND◊	.79	.63	.48	SK15-FDITR-ND◊	3,000	249.00/M
		60	30	0.5	0.70	B160B-FDICT-ND◊	.95	.76	.57	B160B-FDITR-ND◊	3,000	299.00/M
		60	25	0.5	0.70	SK16DICT-ND	.88	.71	.53	—	—	—
		60	25	0.5	0.70	SK16-FDICT-ND◊	.99	.80	.60	SK16-FDITR-ND◊	3,000	314.00/M
		70	30	0.5	0.79	B170BDICT-ND	.86	.69	.52	—	—	—
		70	30	0.5	0.79	B170B-FDICT-ND◊	.97	.78	.59	B170B-FDITR-ND◊	3,000	306.00/M
		80	30	0.5	0.79	B180BDICT-ND	.88	.71	.53	B180BDITR-ND	3,000	293.00/M
		80	30	0.5	0.79	B180B-FDICT-ND◊	.99	.80	.60	B180B-FDITR-ND◊	3,000	314.00/M
		90	30	0.5	0.79	B190BDICT-ND	.90	.72	.54	B190BDITR-ND	3,000	299.00/M
		90	30	0.5	0.79	B190B-FDICT-ND◊	1.01	.81	.61	B190B-FDITR-ND◊	3,000	321.00/M
		100	30	0.5	0.79	B1100B-FDICT-ND◊	1.04	.83	.63	B1100B-FDITR-ND◊	3,000	328.00/M
		100	50	0.5	0.75	B1100LBDICT-ND	.83	.65	.50	—	—	—
		100	50	0.5	0.75	B1100LB-FDICT-ND◊	.94	.82	.63	B1100LB-FDITR-ND◊	3,000	333.00/M
	2.0	20	50	0.5	0.50	B220-FDICT-ND◊	.95	.76	.57	B220-FDITR-ND◊	3,000	299.00/M
		30	50	0.5	0.50	B230DICT-ND	.90	.72	.54	B230DITR-ND	3,000	299.00/M
		30	50	0.5	0.50	B230-FDICT-ND◊	1.01	.81	.61	B230-FDITR-ND◊	3,000	321.00/M
		40	50	0.5	0.50	B240-FDICT-ND◊	.96	.77	.58	B240-FDITR-ND◊	3,000	319.00/M
		50	50	0.5	0.70	B250-FDICT-ND◊	.94	.82	.63	B250-FDITR-ND◊	3,000	333.00/M
		60	50	0.5	0.70	B260-FDICT-ND◊	1.01	.88	.68	B260-FDITR-ND◊	3,000	359.00/M
		70	50	0.5	0.79	B270DICT-ND	.92	.73	.56	B270DITR-ND	3,000	364.00/M
		70	50	0.5	0.79	B270-FDICT-ND◊	1.05	.91	.70	B270-FDITR-ND◊	3,000	372.00/M
		80	50	0.5	0.79	B280-FDICT-ND◊	1.09	.95	.73	B280-FDITR-ND◊	3,000	386.00/M
		90	50	0.5	0.79	B290DICT-ND	.99	.78	.60	B290DITR-ND	3,000	390.00/M
		90	50	0.5	0.79	B290-FDICT-ND◊	1.13	.98	.75	B290-FDITR-ND◊	3,000	399.00/M
		100	50	0.5	0.79	B2100-FDICT-ND◊	1.16	1.01	.78	B2100-FDITR-ND◊	3,000	412.00/M
	3.0	20	100	0.5	0.50	B320BDICT-ND	.89	.71	.54	B320BDITR-ND	3,000	351.00/M
		20	100	0.5	0.50	B320B-FDICT-ND◊	1.01	.88	.68	B320B-FDITR-ND◊	3,000	359.00/M
		30	100	0.5	0.50	B330B-FDICT-ND◊	1.05	.91	.70	B330B-FDITR-ND◊	3,000	372.00/M
		40	100	0.5	0.50	B340B-FDICT-ND◊	1.09	1.09	.73	B340B-FDITR-ND◊	3,000	386.00/M
		40	70	2.0	0.45	B340LB-FDICT-ND◊	1.09	.95	.73	B340LB-FDITR-ND◊	3,000	386.00/M
		50	100	0.5	0.70	B350B-FDICT-ND◊	1.35	1.17	.90	B350B-FDITR-ND◊	3,000	479.00/M
		60	100	0.5	0.50	B360BDICT-ND	1.29	1.02	.78	B360BDITR-ND	3,000	507.00/M
		60	100	0.5	0.50	B360B-FDICT-ND◊	1.46	1.27	.98	B360B-FDITR-ND◊	3,000	519.00/M
5	3.0	20	100	0.5	0.50	B320DICT-ND	.99	.78	.60	B320DITR-ND	3,000	390.00/M
		20	100	0.5	0.50	B320-FDICT-ND◊	1.13	.98	.75	B320-FDITR-ND◊	3,000	399.00/M
		20	100	0.5	0.50	SK32DICT-ND	.86	.68	.52	SK32DITR-ND	500	188.50
		20	100	0.5	0.50	SK32-FDICT-ND◊	.98	.85	.65	SK32-FDITR-ND◊	500	216.00
		30	100	0.5	0.50	B330DICT-ND	1.02	.81	.62	—	—	—
		30	100	0.5	0.50	B330-FDICT-ND◊	1.16	1.01	.78	B330-FDITR-ND◊	3,000	412.00/M
		30	100	0.5	0.50	SK33DICT-ND	.86	.68	.52	SK33DITR-ND	500	188.50
		30	100	0.5	0.50	SK33-FDICT-ND◊	.98	.85	.65	SK33-FDITR-ND◊	500	216.00
		40	100	0.5	0.50	B340-FDICT-ND◊	1.24	1.08	.83	B340-FDITR-ND◊	3,000	439.00/M
		40	100	0.5	0.50	SK34-FDICT-ND◊	.98	.85	.65	SK34-FDITR-ND◊	500	216.00
		50	100	0.5	0.70	B350-FDICT-ND◊	1.50	1.30	1.00	B350-FDITR-ND◊	3,000	532.00/M
		50	100	0.5	0.75	SK35DICT-ND	.86	.68	.52	SK35DITR-ND	500	188.50
		50	100	0.5	0.75	SK35-FDICT-ND◊	.98	.85	.65	SK35-FDITR-ND◊	500	216.00
		60	100	0.5	0.70	B360-FDICT-ND◊	1.65	1.43	1.10	B360-FDITR-ND◊	3,000	585.00/M
		60	100	0.5	0.75	SK36DICT-ND	.86	.68	.52	SK36DITR-ND	500	188.50
		60	100	0.5	0.75	SK36-FDICT-ND◊	.98	.85	.65	SK36-FDITR-ND◊	500	216.00
		70	100	0.5	0.79	B370-FDICT-ND◊	1.69	1.47	1.13	B370-FDITR-ND◊	3,000	599.00/M
		80	100	0.5	0.79	B380DICT-ND	1.52	1.20	.92	B380DITR-ND	3,000	598.00/M
		80	100	0.5	0.79	B380-FDICT-ND◊	1.73	1.50	1.15	B380-FDITR-ND◊	3,000	612.00/M
		90	100	0.5	0.79	B390DICT-ND	1.55	1.23	.94	—	—	—
		90	100	0.5	0.79	B390-FDICT-ND◊	1.76	1.53	1.18	B390-FDITR-ND◊	3,000	625.00/M
		100	100	0.5	0.79	B3100DICT-ND	1.58	1.25	.96	B3100DITR-ND	3,000	624.00/M
		100	100	0.5	0.79	B3100-FDICT-ND◊	1.80	1.56	1.20	B3100-FDITR-ND◊	3,000	638.00/M
	5.0	20	175	0.5	0.55	B520C-FDICT-ND◊	1.31	1.14	.88	B520C-FDITR-ND◊	3,000	466.00/M
		30	175	0.5	0.55	B530C-FDICT-ND◊	1.39	1.21	.93	B530C-FDITR-ND◊	3,000	492.00/M
		40	175	0.5	0.55	B540C-FDICT-ND◊	1.46	1.27	.98	B540C-FDITR-ND◊	3,000	519.00/M

◊ *RoHS Compliant*

Fig. 5 — SMC

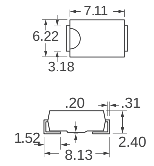

Fig. 6 — DPAK

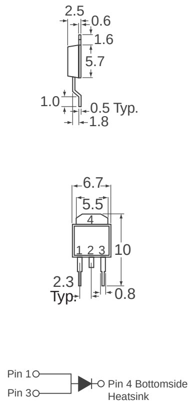

Fig. 7 — D2PAK

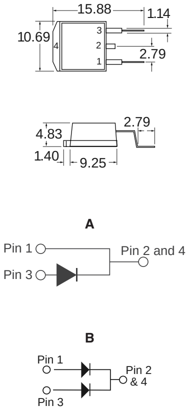

Fig. 8 — POWERMITE®3

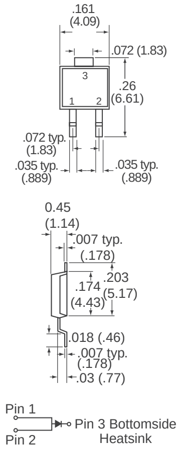

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Schottky Barrier Rectifiers *(Cont.)*

Fig.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Rev. Current @ 25°C (mA)	Max. Peak Forward Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
5	5.0	50	175	0.5	0.70	B550C-FDICT-ND◊	1.61	1.40	1.08	B550C-FDITR-ND◊	3,000	572.00/M
		60	175	0.5	0.70	B560C-FDICT-ND◊	1.76	1.53	1.18	B560C-FDITR-ND◊	3,000	625.00/M
6	8.0	35	75	1.4	0.51	MBRD835LDICT-ND	1.49	1.17	.90	MBRD835LDITR-ND	2,500	585.00/M
		35	75	1.4	0.51	MBRD835L-T-FDICT-ND◊	1.69	1.47	1.13	MBRD835L-T-FDITR-ND◊	2,500	599.00/M
	10.0	40	75	0.15	0.57	MBRD1040CT-T-FDICT-ND◊	1.53	1.28	1.08	MBRD1040CT-T-FDITR-ND◊	2,500	663.00/M
7A	10.0	25	200	1.0	0.45	SBG1025L-T-FDICT-ND◊	1.53	1.28	1.08	SBG1025L-T-FDITR-ND◊	800	612.00
7B	10.0	30	125	1.0	0.55	SBG1030CT-T-FDICT-ND◊	1.56	1.30	1.10	SBG1030CT-T-FDITR-ND◊	800	624.00
		35	125	1.0	0.55	SBG1035CT-T-FDICT-ND◊	1.59	1.33	1.12	SBG1035CT-T-FDITR-ND◊	800	636.00
		45	125	1.0	0.55	SBG1045CT-T-FDICT-ND◊	1.65	1.38	1.16	SBG1045CT-T-FDITR-ND◊	800	660.00
	15.0	30	150	0.1	0.7	MBRB1530CT-T-FDICT-ND◊	1.53	1.28	1.08	MBRB1530CT-T-FDITR-ND◊	800	612.00
		35	150	0.1	0.7	MBRB1535CTDICT-ND	1.40	1.10	.87	MBRB1535CTDITR-ND	800	561.60
		35	150	0.1	0.7	MBRB1535CT-T-FDICT-ND◊	1.56	1.30	1.10	MBRB1535CT-T-FDITR-ND◊	800	624.00
		40	150	0.1	0.7	MBRB1540CT-T-FDICT-ND◊	1.59	1.33	1.12	MBRB1540CT-T-FDITR-ND◊	800	636.00
		45	150	0.1	0.7	MBRB1545CTDICT-ND	1.62	1.35	1.14	MBRB1545CTDITR-ND	800	583.20
		45	150	0.1	0.7	MBRB1545CT-T-FDICT-ND◊	1.62	1.35	1.14	MBRB1545CT-T-FDITR-ND◊	800	648.00
	16.0	30	175	1.0	0.55	SBG1630CTDICT-ND	1.51	1.18	.93	SBG1630CTDITR-ND	800	604.80
		30	175	1.0	0.55	SBG1630CT-T-FDICT-ND◊	1.68	1.40	1.18	SBG1630CT-T-FDITR-ND◊	800	672.00
		35	175	1.0	0.55	SBG1635CT-T-FDICT-ND◊	1.71	1.43	1.20	SBG1635CT-T-FDITR-ND◊	800	684.00
		40	175	1.0	0.55	SBG1640CT-FDI-ND◊	1.74	1.45	1.22	—	—	—
		45	175	1.0	0.55	SBG1645CT-T-FDICT-ND◊	1.77	1.48	1.24	SBG1645CT-T-FDITR-ND◊	800	708.00
	20.0	30	225	1.0	0.55	SBG2030CT-T-FDICT-ND◊	1.83	1.53	1.29	SBG2030CT-T-FDITR-ND◊	800	732.00
		35	225	1.0	0.55	SBG2035CT-T-FDICT-ND◊	1.86	1.55	1.31	SBG2035CT-T-FDITR-ND◊	800	744.00
		40	225	1	0.55	SBG2040CT-FDICT-ND◊	1.89	1.58	1.33	SBG2040CT-FDITR-ND◊	800	756.00
		45	225	1.0	0.55	SBG2045CT-T-FDICT-ND◊	1.92	1.60	1.35	SBG2045CT-T-FDITR-ND	800	768.00
	30.0	30	250	1.0	0.55	SBG3030CT-T-FDICT-ND◊	2.40	2.00	1.68	SBG3030CT-T-FDITR-ND◊	800	960.00
		45	250	1.0	0.55	SBG3045CT-T-FDICT-ND◊	2.76	2.30	1.94	SBG3045CT-T-FDITR-ND◊	800	1104.00
		50	250	1.0	0.70	SBG3050CT-T-FDICT-ND◊	2.76	2.30	1.94	SBG3050CT-T-FDITR-ND◊	800	1104.00
		60	250	1.0	0.70	SBG3060CT-T-FDICT-ND◊	2.76	2.30	1.94	SBG3060CT-T-FDITR-ND◊	800	1104.00
8	3.0	40	50	0.5	0.50	SBM340DICT-ND	1.35	1.17	.90	—	—	—
		40	50	0.5	0.50	SBM340-FDICT-ND◊	1.35	1.17	.90	SBM340-FDITR-ND◊	5,000	479.00/M
		60	50	0.2	0.63	MBRM360DICT-ND	1.06	.84	.64	MBRM360DITR-ND	5,000	408.00/M
		60	50	0.2	0.63	MBRM360-FDICT-ND◊	1.20	1.04	.80	MBRM360-FDITR-ND◊	5,000	408.00/M
		100	50	0.1	0.76	MBRM3100DICT-ND	1.73	1.50	1.15	MBRM3100DITR-ND	5,000	587.00/M
		100	50	0.1	0.76	MBRM3100-FDICT-ND◊	1.73	1.50	1.15	MBRM3100-FDITR-ND◊	5,000	587.00/M
	5.0	40	100	0.5	0.52	SBM540DICT-ND	1.65	1.43	1.10	SBM540DITR-ND	5,000	561.00/M
		40	100	0.5	0.52	SBM540-FDICT-ND◊	1.65	1.43	1.10	SBM540-FDITR-ND◊	5,000	561.00/M
		60	100	0.2	0.69	MBRM560DICT-ND	1.50	1.30	1.00	MBRM560DITR-ND	5,000	510.00/M
		60	100	0.2	0.69	MBRM560-FDICT-ND◊	1.50	1.30	1.00	MBRM560-FDITR-ND◊	5,000	510.00/M
		100	100	0.2	0.81	MBRM5100DICT-ND	1.32	1.04	.80	MBRM5100DITR-ND	5,000	510.00/M
		100	100	0.2	0.81	MBRM5100-FDICT-ND◊	1.50	1.30	1.00	MBRM5100-FDITR-ND◊	5,000	510.00/M
	10.0	40	150	0.3	0.51	SBM1040DICT-ND	1.46	1.14	.90	SBM1040DITR-ND	5,000	691.00/M
		40	150	0.3	0.51	SBM1040-FDICT-ND◊	1.62	1.35	1.14	SBM1040-FDITR-ND◊	5,000	689.00/M
9	0.5	20	5.5	—	0.300	B0520LWDICT-ND	.50	.40	.30	—	—	—
		20	5.5	—	0.300	B0520LW-FDICT-ND◊	.50	.40	.30	B0520LW-FDITR-ND◊	3,000	150.00/M
		30	5.5	—	0.375	B0530W-FDICT-ND◊	.50	.40	.30	B0530W-FDITR-ND◊	3,000	150.00/M
		40	5.5	—	0.510	B0540W-FDICT-ND◊	.50	.40	.30	B0540W-FDITR-ND◊	3,000	150.00/M
	1.0	30	12	1.0	0.42	B130LAW-FDICT-ND◊	.68	.54	.41	B130LAW-FDITR-ND◊	3,000	214.00/M
		40	25	1.0	0.320	1N5819HWDICT-ND	.72	.58	.44	1N5819HWDITR-ND	3,000	239.00/M
		40	25	1.0	0.320	1N5819HW-FDICT-ND◊	.81	.65	.49	1N5819HW-FDITR-ND◊	3,000	257.00/M
10	8.0	45	200	8.0	0.55	SBL845DI-ND	1.46	1.14	.90	—	—	—
	16.0	45	275	16.0	0.63	SBL1645DI-ND	1.67	1.31	1.03	—	—	—
11	10.0	45	250	10.0	0.60	SBL1045CTDI-ND	1.54	1.20	.95	—	—	—
	16.0	45	250	0.5	0.55	SBL1645CTDI-ND	1.78	1.39	1.10	—	—	—
	20.0	45	250	20.0	0.60	SBL2045CTDI-ND	1.89	1.47	1.17	—	—	—
	30.0	45	250	1.0	0.55	SBL3045CTDI-ND	2.67	2.08	1.65	—	—	—
12	1.0	20	22	1.0	0.20	DFLS120LDICT-ND	.72	.58	.44	DFLS120LDITR-ND	3,000	228.00/M
		30	22	1.0	0.42	DFLS130DICT-ND	.68	.54	.41	DFLS130DITR-ND	3,000	214.00/M
		30	33	1.5	0.36	DFLS130LDICT-ND	.72	.58	.44	DFLS130LDITR-ND	3,000	228.00/M
		40	50	2.5	0.36	DFLS140LDICT-ND	.72	.58	.44	DFLS140LDITR-ND	3,000	228.00/M
		60	50	0.1	0.50	DFLS160DICT-ND◊	.72	.58	.44	DFLS160DITR-ND◊	3,000	228.00/M
		100	40	0.001	0.86	DFLS1100DICT-ND◊	.81	.65	.49	DFLS1100DITR-ND◊	3,000	257.00/M
		150	50	0.002	0.82	DFLS1150DICT-ND◊	.90	.72	.54	DFLS1150DITR-ND◊	3,000	285.00/M
		200	40	0.002	0.85	DFLS1200DICT-ND◊	1.18	1.03	.79	DFLS1200DITR-ND◊	3,000	419.00/M
	1.1	40	40	6.0	0.51	DFLS140DICT-ND	.68	.54	.41	DFLS140DITR-ND	3,000	214.00/M
	2.0	20	22	—	0.36	DFLS220LDICT-ND	1.08	.87	.65	DFLS220LDITR-ND	3,000	342.00/M
		30	22	—	0.42	DFLS230DICT-ND	.99	.80	.60	DFLS230DITR-ND	3,000	314.00/M
		30	33	—	0.42	DFLS230LDICT-ND	1.08	.87	.65	DFLS230LDITR-ND	3,000	342.00/M
		30	75	0.2	0.45	DFLS230LHDICT-ND◊	1.31	1.14	.88	DFLS230LHDITR-ND◊	3,000	466.00/M
		40	50	—	0.50	DFLS240LDICT-ND	1.08	.87	.65	DFLS240LDITR-ND	3,000	342.00/M
13	3.0	40	90	0.5	0.49	PDS340DICT-ND	1.35	1.17	.90	PDS340DITR-ND	5,000	459.00/M
		60	100	0.15	0.62	PDS360DICT-ND◊	1.80	1.50	1.26	PDS360DITR-ND◊	5,000	765.00/M
		100	90	.2	0.75	PDS3100DICT-ND	1.73	1.50	1.15	PDS3100DITR-ND	5,000	587.00/M
		200	180	0.01	0.78	PDS3200DICT-ND	1.80	1.50	1.26	PDS3200DITR-ND	5,000	765.00/M
	4.0	150	180	0.01	0.76	PDS4150DICT-ND◊	2.25	1.88	1.58	PDS4150DITR-ND◊	5,000	956.00/M
	5.0	40	120	.30	0.52	PDS540DICT-ND	1.65	1.43	1.10	PDS540DITR-ND	5,000	561.00/M
		40	120	.30	0.52	PDS540DICT-ND◊	1.65	1.43	1.10	PDS540DITR-ND◊	5,000	561.00/M
		40	110	0.2	0.50	PDS1040CTLDICT-ND	1.80	1.50	1.26	PDS1040CTLDITR-ND	5,000	765.00/M
		60	120	0.2	0.67	PDS560DICT-ND◊	1.89	1.58	1.33	PDS560DITR-ND◊	5,000	803.00/M
		100	120	0.2	0.78	PDS5100DICT-ND	1.53	1.28	1.08	PDS5100DITR-ND	5,000	650.00/M
		100	250	0.01	0.71	PDS5100HDICT-ND	1.80	1.50	1.26	PDS5100HDITR-ND	5,000	765.00/M
	7.0	60	275	0.2	0.62	PDS760DICT-ND◊	2.04	1.70	1.43	PDS760DITR-ND◊	5,000	867.00/M
	8.0	35	120	1.4	0.51	PDS835LDICT-ND	1.73	1.50	1.15	PDS835LDITR-ND	5,000	587.00/M
	10.0	40	275	0.7	0.51	PDS1040DICT-ND	1.62	1.35	1.14	PDS1040DITR-ND	5,000	689.00/M
		40	275	0.6	0.46	PDS1040LDICT-ND	1.65	1.38	1.16	PDS1040LDITR-ND	5,000	701.00/M
		45	275	0.6	0.51	PDS1045DICT-ND◊	2.07	1.73	1.45	PDS1045DITR-ND◊	5,000	880.00/M
14	60.0	45	500	1.0	0.75	MBR6045PT-FDI-ND◊	4.05	3.53	2.63	—	—	—

◊ ***RoHS Compliant***

Fig. 9 — SOD-123

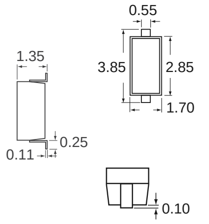

Fig. 10 — TO-220

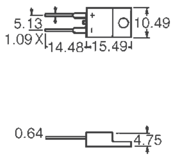

Fig. 11— TO-220

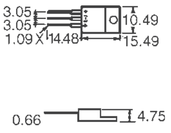

Fig. 12 — PowerDI™123

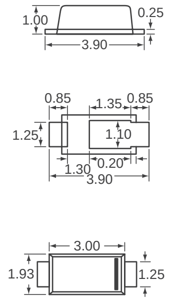

Fig. 13 — PowerDI™5

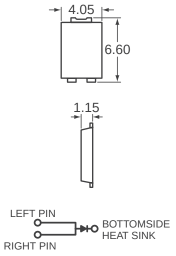

Fig. 14 — TO-3P

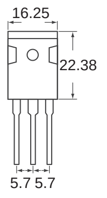

DIODES INCORPORATED

Fast Schottky Barrier Diodes

Fig.	Peak Rev. Voltage VRRM(V)	Leakage Current	Forward Voltage @ IF VF(V)	IF(mA)	Junction Capacitance(pF)	Reverse Recovery Time(nS)	Power Dissipation Ptot(mW)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing
1	20	5µA	0.37	20	50	10	400	SD103CDICT-ND	.48	.38	.29	—	—	—
	30	5µA	0.37	20	50	10	400	SD103BDICT-ND	.48	.38	.29	SD103BDITR-ND	10,000	126.00/M
	40	5µA	0.37	20	50	10	400	SD103ADICT-ND	.48	.38	.29	SD103ADITB-ND‡	10,000	126.00/M
	40	200nA	0.39	1	2.2	1	400	SD101CDICT-ND	.52	.40	.29	SD101CDITR-ND	10,000	120.00/M
	50	200nA	0.40	1	2.1	1	400	SD101BDICT-ND	.52	.40	.29	SD101BDITB-ND‡	10,000	120.00/M
	60	200nA	0.41	1	2.0	1	400	SD101ADICT-ND	.52	.40	.29	SD101ADITB-ND‡	10,000	120.00/M
2	20	5µA	0.37	20	50	10	400	LLSD103CDICT-ND	.55	.44	.33	LLSD103CDITR-ND	2,500	154.00/M
	30	5µA	0.37	20	50	10	400	LLSD103BDICT-ND	.55	.44	.33	LLSD103BDITR-ND	2,500	154.00/M
	40	5µA	0.37	20	50	10	400	LLSD103ADICT-ND	.55	.44	.33	LLSD103ADITR-ND	2,500	154.00/M
	40	200nA	0.39	1	2.2	1	400	LLSD101CDICT-ND	.45	.36	.27	LLSD101CDITR-ND	2,500	126.00/M
	50	200nA	0.40	1	2.1	1	400	LLSD101BDICT-ND	.45	.36	.27	LLSD101BDITR-ND	2,500	126.00/M
	60	200nA	0.41	1	2.0	1	400	LLSD101ADICT-ND	.45	.36	.27	LLSD101ADITR-ND	10,000	120.00/M
3	20	100µA	0.31	100	170	—	200	B0520WS-FDICT-ND◊	.60	.48	.36	B0520WS-FDITR-ND◊	3,000	180.00/M
	20	5.0µA	0.37	20	28	10	200	SD103CWS-FDICT-ND◊	.68	.54	.41	SD103CWS-FDITR-ND◊	3,000	214.00/M
	30	80µA	0.36	100	58	—	235	B0530WS-FDICT-ND◊	.54	.44	.33	B0530WS-FDITR-ND◊	3,000	171.00/M
	30	500nA	1.0	200	10	5.0	200	BAT42WS-FDICT-ND◊	.72	.58	.44	BAT42WS-FDITR-ND◊	3,000	228.00/M
	30	500nA	0.33	2.0	10	5.0	200	BAT43WSDICT-ND	.64	.52	.39	—	—	—
	30	500nA	0.33	2.0	10	5.0	200	BAT43WS-FDICT-ND◊	.64	.52	.39	BAT43WS-FDITR-ND◊	3,000	213.00/M
	30	2.0µA	0.32	1	10	5	200	BAT54WS-FDICT-ND◊	.90	.72	.54	BAT54WS-FDITR-ND◊	3,000	285.00/M
	30	5.0µA	0.37	20	28	10	200	SD103BWSDICT-ND	.60	.48	.36	SD103BWSDITR-ND	3,000	200.00/M
	30	5.0µA	0.37	20	28	10	200	SD103BWS-FDICT-ND◊	.68	.54	.41	SD103BWS-FDITR-ND◊	3,000	214.00/M
	30	1.0µA	0.55	50	7	—	250	SD107WS-FDICT-ND◊	.95	.76	.57	SD107WS-FDITR-ND◊	3,000	299.00/M
	30	100µA	0.36	100	22	—	200	SDM100K30LDICT-ND◊	.68	.54	.41	SDM100K30LDITR-ND◊	3,000	214.00/M
	30	50µA	0.27	10	25	—	235	BAT760DICT-ND◊	.72	.58	.44	BAT760DITR-ND◊	3,000	228.00/M
	40	3µA	0.30	10	125	—	235	B0540WSDICT-ND◊	.54	.44	.33	B0540WSDITR-ND◊	3,000	171.00/M
	40	200nA	0.39	1	2.2	1.0	200	SD101CWS-FDICT-ND◊	.63	.50	.38	SD101CWS-FDITR-ND◊	3,000	188.00/M
	40	5.0µA	0.37	20	28	10	200	SD103AWS-FDICT-ND◊	.60	.48	.36	SD103AWS-FDITR-ND◊	3,000	200.00/M
	40	500nA	0.37	1	2.0	—	250	SDMK0340LDICT-ND	.60	.48	.36	SDMK0340LDITR-ND	3,000	200.00/M
	40	500nA	0.37	1	2.0	—	250	SDMK0340L-FDICT-ND◊	.68	.54	.41	SDMK0340L-FDITR-ND◊	3,000	214.00/M
	45	1.0µA	0.45	10	6.0	—	200	SDM10K45DICT-ND	.60	.48	.36	SDM10K45DITR-ND	3,000	200.00/M
	45	1.0µA	0.45	10	6.0	—	200	SDM10K45-FDICT-ND◊	.68	.54	.41	SDM10K45-FDITR-ND◊	3,000	214.00/M
	50	200nA	0.40	1	2.1	1.0	200	SD101BWSDICT-ND	.63	.50	.38	SD101BWSDITR-ND	3,000	188.00/M
	50	200nA	0.40	1	2.1	1.0	200	SD101BWS-FDICT-ND◊	.63	.50	.38	SD101BWS-FDITR-ND◊	3,000	188.00/M
	60	200nA	0.41	1	2.0	1	200	SD101AWSDICT-ND	.63	.50	.38	SD101AWSDITR-ND	3,000	188.00/M
	60	200nA	0.41	1	2.0	1	200	SD101AWS-FDICT-ND◊	.63	.50	.38	SD101AWS-FDITR-ND◊	3,000	188.00/M
	70	200nA	0.41	1.0	2.0	1.0	200	1N5711WSDICT-ND	.72	.58	.44	1N5711WSDITR-ND	3,000	239.00/M
	70	200nA	0.41	1.0	2.0	1.0	200	1N5711WS-FDICT-ND◊	.81	.65	.49	1N5711WS-FDITR-ND◊	3,000	257.00/M
4	20	5µA	.37	20	28	10	400	SD103CW-FDICT-ND◊	.53	.42	.32	SD103CW-FDITR-ND◊	10,000	140.00/M
	30	500nA	1.0	200	10	5.0	200	BAT42W-FDICT-ND◊	.60	.48	.36	BAT42W-FDITR-ND◊	3,000	180.00/M
	30	500nA	1.0	200	10	5.0	200	BAT43W-FDICT-ND◊	.60	.48	.36	BAT43W-FDITR-ND◊	3,000	180.00/M
	30	5µA	—	—	—	10	—	SD103-BWDICT-ND	.53	.42	.32	SD103-BWDITR-ND	10,000	140.00/M
	40	200nA	—	—	—	1	—	SD101-CWDICT-ND	.48	.38	.29	SD101-CWDITR-ND	10,000	126.00/M
	50	200nA	—	—	—	1	—	SD101-BWDICT-ND	.48	.38	.29	SD101-BWDITR-ND	10,000	126.00/M
	60	200µA	1.0	15	2.0	1	400	1N6263WDICT-ND	.70	.56	.42	1N6263WDITR-ND	3,000	210.00/M
	60	200µA	1.0	15	2.0	1	400	1N6263W-FDICT-ND◊	.70	.56	.42	1N6263W-FDITR-ND◊	3,000	210.00/M
	60	200nA	—	—	—	1	—	SD101-AWDICT-ND	.48	.38	.29	—	—	—
	70	200nA	.041	1.0	—	1.0	333	1N5711WDICT-ND	.70	.56	.42	1N5711WDITR-ND	3,000	210.00/M
	70	200nA	.041	1.0	—	1.0	333	1N5711W-FDICT-ND◊	.70	.56	.42	1N5711W-FDITR-ND◊	3,000	210.00/M
5	40	—	0.37	1	2.0	—	150	SDM03U40DICT-ND	.81	.65	.49	SDM03U40DITR-ND	3,000	257.00/M
	45	—	0.55	50	7.0	—	150	SDM10U45DICT-ND	.81	.65	.49	—	—	—
	45	—	0.55	50	7.0	—	150	SDM10U45-FDICT-ND◊	.81	.65	.49	SDM10U45-FDITR-ND◊	3,000	257.00/M
	30	—	0.35	20	20	—	150	SDM20U30DICT-ND	.81	.65	.49	SDM20U30DITR-ND	3,000	257.00/M
	40	—	0.37	20	50	10	150	SDM20U40DICT-ND	.81	.65	.49	—	—	—
	40	—	0.37	20	50	10	150	SDM20U40-FDICT-ND◊	.81	.65	.49	SDM20U40-FDITR-ND◊	3,000	257.00/M
6	30	2.0µA	1.0	100	10	5.0	250	BAT54LPDICT-ND◊	.60	.48	.36	BAT54LPDITR-ND◊	3,000	180.00/M
	30	150µA	0.575	200	20	—	250	SDM20U30LPDICT-ND◊	.81	.65	.49	SDM20U30LPDITR-ND◊	3,000	257.00/M
	40	200nA	1.0	40	5.0	5.0	250	BAS40LPDICT-ND◊	.68	.54	.41	BAS40LPDITR-ND◊	3,000	214.00/M
	45	1.0µA	0.8	100	15	—	250	SDM10U45LPDICT-ND◊	.81	.65	.49	SDM10U45LPDITR-ND◊	3,000	257.00/M

‡ TB = Tape and Box ◊ ***RoHS Compliant***

Fig. 1 — DO-35

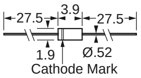

Fig. 2 — MiniMELF

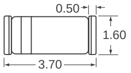

Fig. 3 — SOD-323

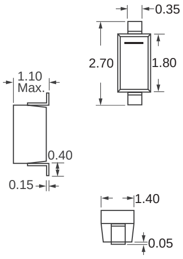

Fig. 4 — SOD-123

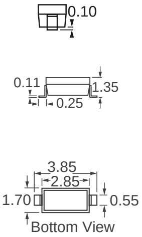

Fig. 5 — SOD-523

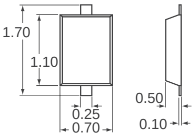

Fig. 6 — DFN1006-2

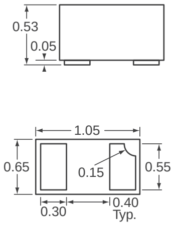

Schottky Barrier Double Diodes

(Top View Shown on all drawings)

Fig.	Repetitive Peak Reverse Voltage VRRM	Forward Continuous Current IF	Maximum Forward Voltage@IF VF(V)	Maximum Forward Voltage@IF IF(mA)	Leakage Current	Reverse Recovery Time (nS)	Package	Digi-Key Part No.	Cut Tape Price Each 10	Cut Tape Price Each 100	Cut Tape Price Each 1,000	Tape & Reel* Size	Tape & Reel* Pricing
1	30V	200mA	1.0	100	2.0µA	5.0	SOT-23	BAT54-FDICT-ND◊	.40	.30	.16	3,000	150.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-FDICT-ND◊	.52	.39	.24	3,000	213.00/M
	40V	—	0.55	500	50µA	—	SOT-23	BAT400D-FDICT-ND◊	.58	.44	.25	3,000	228.00/M
	40V	750mA	0.31	100	100µA	—	SOT-23	BAT750-FDICT-ND◊	.58	.44	.27	3,000	239.00/M
	70V	70mA	1.0	15	200uA	5.0	SOT-23	BAS70DICT-ND	.64	.48	.29	3,000	266.00/M
	70V	70mA	1.0	15	200uA	5.0	SOT-23	BAS70-FDICT-ND◊	.72	.54	.31	3,000	285.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54WDICT-ND	.48	.36	.20	3,000	180.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54W-FDICT-ND◊	.48	.36	.20	3,000	180.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40WDICT-ND	.64	.48	.29	3,000	266.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-FDICT-ND◊	.72	.54	.31	3,000	285.00/M
	70V	100mA	1.0	15	100nA	5.0	SOT-323	BAS70WDICT-ND	.71	.53	.32	3,000	293.00/M
	70V	100mA	1.0	15	100nA	5.0	SOT-323	BAS70W-FDICT-ND◊	.80	.60	.35	3,000	314.00/M
2	30V	200mA	1.0	100	2.0µA	5.0	SOT-23	BAT54C-FDICT-ND◊	.48	.36	.22	3,000	200.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-05DICT-ND	.52	.39	.24	3,000	213.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-05-FDICT-ND◊	.58	.44	.25	3,000	228.00/M
	70V	70mA	1.0	15	200nA	5.0	SOT-23	BAS70-05DICT-ND	.64	.48	.29	3,000	266.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54CW-FDICT-ND◊	.65	.49	.49	3,000	257.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-05DICT-ND	.64	.48	.29	3,000	266.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-05-FDICT-ND◊	.72	.54	.31	3,000	285.00/M
3	30V	200mA	1.0	100	2µA	5.0	SOT-23	BAT54S-FDICT-ND◊	.54	.41	.24	3,000	214.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-04DICT-ND	.52	.39	.24	—	—
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-04-FDICT-ND◊	.52	.39	.24	3,000	213.00/M
	70V	70mA	1.0	15	200nA	5.0	SOT-23	BAS70-04-FDICT-ND◊	.72	.54	.31	3,000	285.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54SWDICT-ND	.58	.44	.27	3,000	239.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54SW-FDICT-ND◊	.65	.49	.28	3,000	257.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-04-FDICT-ND◊	.72	.54	.31	3,000	285.00/M
	70V	100mA	1.0	15	100nA	5.0	SOT-323	BAS70W-04DICT-ND	.71	.53	.32	3,000	293.00/M
	70V	100mA	1.0	15	100nA	5.0	SOT-323	BAS70W-04-FDICT-ND◊	.80	.60	.35	3,000	314.00/M
4	30V	200mA	1.0	100	2µA	5.0	SOT-23	BAT54ADICT-ND	.48	.36	.22	3,000	200.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-23	BAT54A-FDICT-ND◊	.54	.41	.24	3,000	214.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-06DICT-ND	.52	.39	.24	3,000	213.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-23	BAS40-06-FDICT-ND◊	.58	.44	.25	3,000	228.00/M
	70V	70mA	1.0	15	200nA	5.0	SOT-23	BAS70-06DICT-ND	.64	.48	.29	3,000	266.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54AWDICT-ND	.58	.44	.27	3,000	239.00/M
	30V	200mA	1.0	100	2µA	5.0	SOT-323	BAT54AW-FDICT-ND◊	.65	.49	.28	3,000	257.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-06DICT-ND	.64	.48	.29	3,000	266.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-323	BAS40W-06-FDICT-ND◊	.72	.54	.31	3,000	285.00/M
5	30V	200mA	1.0	100	2µA	5.0	SOT-363	BAT54DWDICT-ND	.65	.50	.34	—	—
	30V	200mA	1.0	100	2µA	5.0	SOT-363	BAT54DW-FDICT-ND◊	.82	.63	.37	3,000	333.00/M
6	40V	30mA	0.37	1.0	150nA	—	SOT-323	SDMG0340L-FDICT-ND◊	.54	.41	.22	3,000	203.00/M
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54TDICT-ND	.40	.30	.16	3,000	150.00/M
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54T-FDICT-ND◊	.40	.30	.16	3,000	150.00/M
	40V	30mA	0.37	1.0	1.0µA	—	SOT-523	SDMP0340LTDICT-ND	.65	.49	.28	3,000	257.00/M
	40V	30mA	0.37	1.0	1.0µA	—	SOT-523	SDMP0340LT-FDICT-ND◊	.65	.49	.28	3,000	257.00/M
	40V	200mA	0.38	1.0	200nA	5.0	SOT-523	BAS40T-FDICT-ND◊	.58	.44	.25	3,000	228.00/M
	45V	1000mA	0.45	10	1µA	—	SOT-523	SDM10P45DICT-ND	.65	.49	.28	3,000	257.00/M
	45V	1000mA	0.45	10	1µA	—	SOT-523	SDM10P45-FDICT-ND◊	.65	.49	.28	3,000	257.00/M
7	40V	200mA	0.37	1.0	1µA	—	SOT-323	SDMG0340LADICT-ND	.54	.41	.22	3,000	203.00/M
	40V	200mA	0.37	1.0	1µA	—	SOT-323	SDMG0340LA-FDICT-ND◊	.54	.41	.22	3,000	203.00/M
	70V	70mA	0.41	1.0	100nA	5.0	SOT-323	BAS70W-06-FDICT-ND◊	.80	.60	.35	3,000	314.00/M
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54ATDICT-ND	.48	.36	.22	—	—
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54AT-FDICT-ND◊	.54	.41	.24	3,000	214.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-523	BAS40T-06TDICT-ND	.52	.39	.24	—	—
	40V	200mA	0.37	1	1µA	—	SOT-523	SDMP0340LATDICT-ND	.65	.49	.28	3,000	257.00/M
	40V	200mA	0.37	1	1µA	—	SOT-523	SDMP0340LAT-FDICT-ND◊	.65	.49	.28	3,000	257.00/M
8	40V	200mA	0.37	1.0	1µA	—	SOT-323	SDMG0340LC-FDICT-ND◊	.54	.41	.22	3,000	203.00/M
	70V	70mA	0.41	1.0	100nA	5.0	SOT-323	BAS70W-05-FDICT-ND◊	.80	.60	.35	3,000	314.00/M
	30V	200mA	1.0	100	2.0µA	5.0	SOT-523	BAT54CT-FDICT-ND◊	.48	.36	.22	3,000	200.00/M
	40V	30mA	0.37	1	1.0µA	—	SOT-523	SDMP0340LCTDICT-ND	.65	.49	.28	3,000	257.00/M
	40V	30mA	0.37	1	1.0µA	—	SOT-523	SDMP0340LCT-FDICT-ND◊	.65	.49	.28	3,000	257.00/M
9	20V	400mA	0.31	100	100µA	—	SOT-23	SDM40E20LSDICT-ND	.52	.39	.24	3,000	213.00/M
	20V	400mA	0.31	100	100µA	—	SOT-23	SDM40E20LS-FDICT-ND◊	.58	.44	.25	3,000	228.00/M
	40V	200mA	0.37	1.0	1µA	—	SOT-323	SDMG0340LSDICT-ND	.54	.41	.22	3,000	203.00/M
	40V	200mA	0.37	1.0	1µA	—	SOT-323	SDMG0340LS-FDICT-ND◊	.54	.41	.22	3,000	203.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-523	BAS40-04T-7DICT-ND	.52	.39	.24	3,000	213.00/M
	40V	200mA	1.0	40	200nA	5.0	SOT-523	BAS40-04T-FDICT-ND◊	.58	.44	.25	3,000	228.00/M
	40V	200mA	0.37	1	1µA	—	SOT-523	SDMP0340LSTDICT-ND	.54	.41	.22	3,000	203.00/M
	40V	200mA	0.37	1	1µA	—	SOT-523	SDMP0340LST-FDICT-ND◊	.54	.41	.22	3,000	203.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Fig. 1

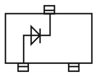

Fig. 2

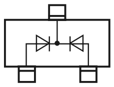

Fig. 3

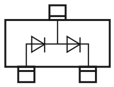

Fig. 4

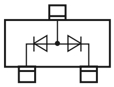

Fig. 5

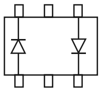

Fig. 6

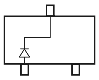

Fig. 7

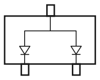

Fig. 8

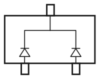

Fig. 9

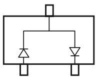

Schottky Barrier Diode Arrays SOT-363/SOT-26 (200mW)

Fig.	Peak Voltage VRRM (V)	Leakage Current	Forward Voltage @IF VF(V)	IF(mA)	Junction Capacitance (pF)	Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
1	40	200nA	0.38	1.0	5.0	5.0	BAS40DW-04DICT-ND	.80	.64	.48	BAS40DW-04DITR-ND	266.00/M
	40	200nA	0.38	1.0	5.0	5.0	BAS40DW-04-FDICT-ND◊	.90	.72	.54	BAS40DW-04-FDITR-ND◊	285.00/M
	40	—	0.37	20	50	10.0	SD103ASDM-FDICT-ND†◊	.81	.65	.49	SD103ASDM-FDITR-ND†◊	257.00/M
	45	1.0µA	0.45	10	6.0	—	SDM10M45SDDICT-ND†	1.08	.87	.65	SDM10M45SDDITR-ND†	342.00/M
	45	1.0µA	0.45	10	6.0	—	SDM10M45SD-FDICT-ND†◊	1.08	.87	.65	SDM10M45SD-FDITR-ND†◊	342.00/M
	70	100nA	0.41	1.0	2.0	5.0	BAS70DW-04DICT-ND	.83	.65	.50	BAS70DW-04DITR-ND	325.00/M
	70	100nA	0.41	1.0	2.0	5.0	BAS70DW-04-FDICT-ND◊	.94	.82	.63	BAS70DW-04-FDITR-ND◊	333.00/M
2	30	2.0µA	0.40	10	10	5.0	BAT54CDWDICT-ND	.96	.77	.58	—	—
	30	2.0µA	0.40	10	10	5.0	BAT54CDW-FDICT-ND◊	.96	.77	.58	BAT54CDW-FDITR-ND◊	319.00/M
	40	200nA	0.38	1.0	5.0	5.0	BAS40DW-05DICT-ND	.80	.64	.48	—	—
	40	200nA	0.38	1.0	5.0	5.0	BAS40DW-05-FDICT-ND◊	.90	.72	.54	BAS40DW-05-FDITR-ND◊	285.00/M
3	30	2.0µA	0.40	10	10	5.0	BAT54ADWDICT-ND	.96	.77	.58	—	—
	30	2.0µA	0.40	10	10	5.0	BAT54ADW-FDICT-ND◊	1.08	.87	.65	BAT54ADW-FDITR-ND◊	342.00/M
	40	200nA	0.38	1.0	5.0	5.0	BAS40DW-06DICT-ND	.80	.64	.48	—	—
	40	200nA	0.38	1.0	5.0	5.0	BAS40DW-06-FDICT-ND◊	.90	.72	.54	BAS40DW-06-FDITR-ND◊	285.00/M
	70	100nA	0.41	1.0	2.0	5.0	BAS70DW-06DICT-ND	.83	.65	.50	—	—
	70	100nA	0.41	1.0	2.0	5.0	BAS70DW-06-FDICT-ND◊	.94	.82	.63	BAS70DW-06-FDITR-ND◊	333.00/M
4	30	2.0µA	0.32	1.0	10	5.0	BAT54TWDICT-ND	.80	.64	.48	BAT54TWDITR-ND	266.00/M
	30	2.0µA	0.32	1.0	10	5.0	BAT54TW-FDICT-ND◊	.90	.72	.54	BAT54TW-FDITR-ND◊	285.00/M
	40	200nA	0.38	1.0	5.0	5.0	BAS40TWDICT-ND	.81	.65	.49	BAS40TWDITR-ND	257.00/M
	40	200nA	0.38	1.0	5.0	5.0	BAS40TW-FDICT-ND◊	.81	.65	.49	BAS40TW-FDITR-ND◊	257.00/M
	70	100nA	0.41	1.0	2.0	5.0	BAS70TWDICT-ND	.88	.71	.53	—	—
	70	100nA	0.41	1.0	2.0	5.0	BAS70TW-FDICT-ND◊	.88	.71	.53	BAS70TW-FDITR-ND◊	293.00/M
5	30	2.0µA	0.45	10	10	5.0	QSBT40-FDICT-ND◊	1.24	1.08	.83	QSBT40-FDITR-ND◊	439.00/M
6	30	2.0µA	0.40	10	10	5.0	BAT54BRWDICT-ND	.96	.77	.58	—	—
	30	2.0µA	0.40	10	10	5.0	BAT54BRW-FDICT-ND◊	.96	.77	.58	BAT54BRW-FDITR-ND◊	319.00/M
	40	200nA	0.38	1.0	5.0	5.0	BAS40BRW-FDICT-ND◊	1.08	.87	.65	BAS40BRW-FDITR-ND◊	342.00/M
	70	100nA	0.41	1.0	2.0	5.0	BAS70BRWDICT-ND	1.08	.87	.65	BAS70BRWDITR-ND	342.00/M
	70	100nA	0.41	1.0	2.0	5.0	BAS70BRW-FDICT-ND◊	1.08	.87	.65	BAS70BRW-FDITR-ND◊	342.00/M
7	30	2.0µA	0.40	10	10	5.0	BAT54JW-FDICT-ND◊	.72	.58	.44	BAT54JW-FDITR-ND◊	228.00/M
8	40	2.0µA	0.37	20	50	10.0	SD103ATWDICT-ND	.72	.58	.44	SD103ATWDITR-ND	228.00/M
	40	2.0µA	0.37	20	50	10.0	SD103ATW-FDICT-ND◊	.72	.58	.44	SD103ATW-FDITR-ND◊	228.00/M

† Power Dissipation: 225mW; SOT-26 Package ◊ ***RoHS Compliant***

Fig. 1 — SOT-363/SOT-26

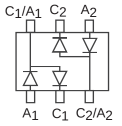

Fig. 2 — SOT-363

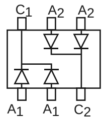

Fig. 3 — SOT-363

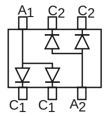

Fig. 4 — SOT-363

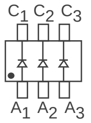

Fig. 5 — SOT-363

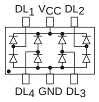

Fig. 6 — SOT-363

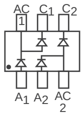

Fig. 7 — SOT-363

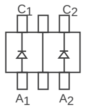

Fig. 8 — SOT-363

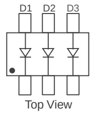

Switching Diode Arrays Surface Mount

Fig.	Peak Reverse Voltage VRRM (V)	Max. Rev. Current IR (µA)	VR (V)	Max. For. Voltage@ VF (V)	IF (mA)	Max. Capacitance C (pF)	Max.Rev. Recovery Time Trr (nS)	Power Dissipation Pd (mW)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
1	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HAQWDICT-ND	.60	.48	.36	MMBD4448HAQWDITR-ND	200.00/M
	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HAQW-FDICT-ND◊	.68	.54	.41	MMBD4448HAQW-FDITR-ND◊	214.00/M
2	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HCQWDICT-ND	.60	.48	.36	MMBD4448HCQWDITR-ND	180.00/M
	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HCQW-FDICT-ND◊	.60	.48	.36	MMBD4448HCQW-FDITR-ND◊	180.00/M
3	75	1.0	75	1.0	50	2.0	4.0	200	BAS16TWDICT-ND	.45	.36	.27	BAS16TWDITR-ND	135.00/M
	75	1.0	75	1.0	50	2.0	4.0	200	BAS16TW-FDICT-ND◊	.45	.36	.27	BAS16TW-FDITR-ND◊	135.00/M
	75	1.0	75	1.0	50	2.0	4.0	200	MMBD4148TW-FDICT-ND◊	.49	.38	.27	MMBD4148TW-FDITR-ND◊	128.00/M
	80	0.1	70	1.0	100	—	4.0	200	MMBD4448HTW-FDICT-ND◊	.50	.40	.30	MMBD4448HTW-FDITR-ND◊	150.00/M
4	75	2.5	75	1.0	50	2.0	4.0	200	BAV70DWDICT-ND	.50	.40	.30	BAV70DWDITR-ND	150.00/M
	75	2.5	75	1.0	50	2.0	4.0	200	BAV70DW-FDICT-ND◊	.50	.40	.30	BAV70DW-FDITR-ND◊	150.00/M
	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HCDW-FDICT-ND◊	.60	.48	.36	MMBD4448HCDW-FDITR-ND◊	180.00/M
5	30	2	25	1.0	100	10	5.0	200	BAT54SDW-FDICT-ND◊	1.08	.87	.65	BAT54SDW-FDITR-ND◊	342.00/M
	75	2.5	75	1.0	50	2.0	4.0	200	BAV99DW-FDICT-ND◊	.50	.40	.30	BAV99DW-FDITR-ND◊	150.00/M
	80	0.1	70	1.0	100	3.5	4.0	200	MMBD4448HSDW-FDICT-ND◊	.60	.48	.36	MMBD4448HSDW-FDITR-ND◊	180.00/M
	80	50	75	.72	5.0	4.0	4.0	200	SDA004DICT-ND	.99	.80	.60	SDA004DITR-ND	314.00/M
	85	0.005	75	1.0	10	2.0‡	3.0§	200	BAV199DWDICT-ND	.55	.44	.33	BAV199DWDITR-ND	165.00/M
	85	0.005	75	1.0	10	2.0‡	3.0§	200	BAV199DW-FDICT-ND◊	.55	.44	.33	BAV199DW-FDITR-ND◊	165.00/M
6	75	2.5	75	1.0	50	2.0	4.0	200	BAW56DWDICT-ND	.50	.40	.30	BAW56DWDITR-ND	150.00/M
	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HADWDICT-ND	.60	.48	.36	MMBD4448HADWDITR-ND	180.00/M
	80	1.0	75	1.0	100	3.5	4.0	200	MMBD4448HADW-FDICT-ND◊	.60	.48	.36	MMBD4448HADW-FDITR-ND◊	180.00/M
7	75	2.5	75	1.0	50	2.0	4.0	200	BAV756DWDICT-ND	.50	.40	.30	—	—
	75	2.5	75	1.0	50	2.0	4.0	200	BAV756DW-FDICT-ND◊	.50	.40	.30	BAV756DW-FDITR-ND◊	150.00/M
8	75	2.5	75	1.0	50	2.0	4.0	200	BAW567DWDICT-ND	.50	.40	.30	BAW567DWDITR-ND	150.00/M
	75	2.5	75	1.0	50	2.0	4.0	200	BAW567DW-FDICT-ND◊	.50	.40	.30	BAW567DW-FDITR-ND◊	150.00/M
9	350	0.1	240	1.0	100	5.0	50	350	MMBD3004BRMDICT-ND	.68	.54	.41	MMBD3004BRMDITR-ND	214.00/M
	350	0.1	240	1.0	100	5.0	50	350	MMBD3004BRM-FDICT-ND◊	.68	.54	.41	MMBD3004BRM-FDITR-ND◊	214.00/M
10	80	0.1	70	1.0	100	3.5	4.0	225	MMBD4448HTMDICT-ND	.55	.44	.33	—	—
	80	0.1	70	1.0	100	3.5	4.0	225	MMBD4448HTM-FDICT-ND◊	.55	.44	.33	MMBD4448HTM-FDITR-ND◊	165.00/M
11	40	1	10	.37	1	2	—	225	SDM03MT40DICT-ND	.72	.58	.44	SDM03MT40DITR-ND	228.00/M
	40	1	10	.37	1	2	—	225	SDM03MT40-FDICT-ND◊	.72	.58	.44	SDM03MT40-FDITR-ND◊	228.00/M

‡ Capacitance Typical pF § Reverse Recovery Time @ µs ◊ ***RoHS Compliant***

Fig. 1 — SOT-363

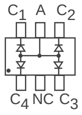

Fig. 2 — SOT-353

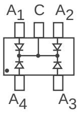

Fig. 3 — SOT-363

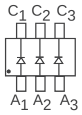

Fig. 4 — SOT-363

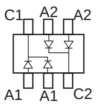

Fig. 5 — SOT-363

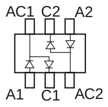

Fig. 6 — SOT-363

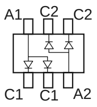

Fig. 7 — SOT-363

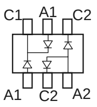

Fig. 8 — SOT-363

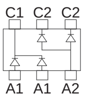

Fig. 9 — SOT-26

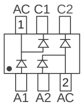

Fig. 10 — SOT-26

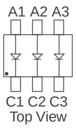

Fig. 11 — SOT-26

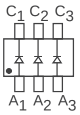

Schottky Diodes

RoHS Compliant Parts Available

Fig. 1 — DO-35

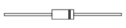

Fig. 2 — DO-41, DO-15, DO-201AD

Fig. 3 — TO-220AC

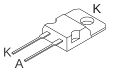

Fig. 4 — TO-220AB

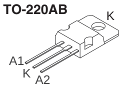

Fig. 5 — ISOTOP

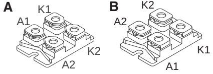

Fig. 6 — TO-247

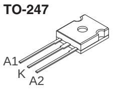

Fig. 7 — SOT-23, SOT-323

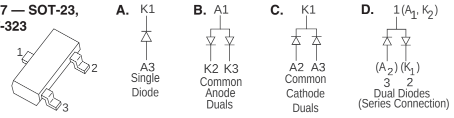

Fig. 8 — DPAK

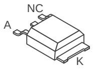

Fig. 9 — DPAK

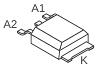

Fig. 10 — D2PAK

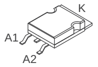

Fig. 11 — MAX247

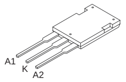

Fig. 12 — SMA, SMB, SMC

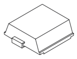

Fig. 13 — SOD-123

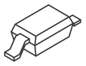

Fig. 14 — DO-216AA

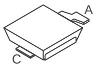

Fig. 15 — MINIMELF

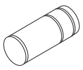

Fig. 16 — SOT-93

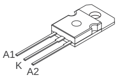

Fig. 17 — Dip-16

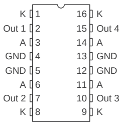

Fig. 18 — SOD-323

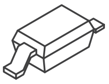

Fig. 19 — TOP-3I

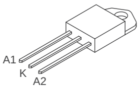

Fig. 20 — MELF

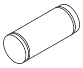

Fig. 21 — TO-220FPAB

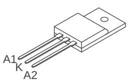

Fig. 22 — I^{2}PAK

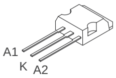

Fig.	V_{RRM} (V)	I_F	P_{TOT} (mW)	Package Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
						1	10	100		Size	Pricing	
1	20	350mA	330	DO-35	497-3773-1-ND	.41	3.00	17.28	497-3773-2-ND	4,000	86.00/M	BAT47
	30	200mA	200	DO-35	497-2492-1-ND	.41	3.00	17.28	497-2492-2-ND	4,000	86.00/M	BAT43
	30	200mA	200	DO-35	497-2495-1-ND	.41	3.00	21.12	497-2495-2-ND	4,000	86.00/M	BAT42
	40	350mA	330	DO-35	497-2512-1-ND	.41	3.00	21.12	497-2512-2-ND	4,000	86.00/M	BAT48
	60	15mA	—	DO-35	497-2508-1-ND	.41	3.00	21.12	497-2508-2-ND	4,000	86.00/M	1N6263
	70	15mA	430	DO-35	497-2499-1-ND	.41	3.00	21.12	497-2499-2-ND	4,000	86.00/M	1N5711
	100	100mA	100	DO-35	497-2493-1-ND	.41	3.00	21.12	497-2493-2-ND	4,000	86.00/M	BAT41
	100	150mA	150	DO-35	497-3768-1-ND	.46	3.50	25.20	497-3768-2-ND	4,000	119.00/M	BAT46
2	20	1A	—	DO-41	497-4547-1-ND	.44	3.00	20.80	497-4547-3-ND§	2,000	92.00/M	1N5817
	30	1A	—	DO-41	497-4548-1-ND	.44	3.00	20.80	497-4548-3-ND§	2,000	92.00/M	1N5818
	60	2A	—	DO-41	497-3214-1-ND	.65	5.20	39.00	497-3214-3-ND§	2,000	208.00/M	STPS2L60
	150	1A	—	DO-41	497-2447-1-ND	.42	3.25	23.40	497-2447-3-ND§	2,000	117.00/M	STPS1150
	150	2A	—	DO-15	497-3213-1-ND	.45	3.60	27.00	497-3213-3-ND§	1,000	144.00	STPS2150
	150	3A	—	DO-201AD	497-3216-1-ND	.55	4.40	33.00	497-3216-2-ND	1,900	176.00/M	STPS3150RL
3	25	10A	—	TO-220AC	497-2738-5-ND‡	1.50	13.00	100.00	—	—	—	STPS10L25D
	45	7.5A	—	TO-220AC	497-2749-5-ND‡	1.09	8.71	65.34	—	—	—	STPS745D
	45	10A	—	TO-220AC	497-2754-5-ND‡	1.08	8.64	64.80	—	—	—	STPS1045D
	45	15A	—	TO-220AC	497-2753-5-ND‡	.95	8.22	63.25	—	—	—	STPS1545D
	100	8A	—	TO-220AC	497-2737-5-ND‡	1.24	10.73	82.50	—	—	—	STPS8H100D
	120	20A	—	TO-220AC	497-4627-5-ND‡	1.28	11.05	85.00	—	—	—	STPS20120D
4	30	2 x 10A	—	TO-220AB	497-2750-5-ND‡	1.31	11.38	87.50	—	—	—	STPS2030CT
	30	2 x 15A	—	TO-220AB	497-2756-5-ND‡	1.65	13.75	115.50	—	—	—	STPS30L30CT
	45	2 x 7.5A	—	TO-220AB	497-2747-5-ND‡	1.03	8.94	68.75	—	—	—	STPS1545CT
	45	2 x 15A	—	TO-220AB	497-2751-5-ND‡	1.44	12.51	96.25	—	—	—	STPS3045CT
	100	2 x 10A	—	TO-220AB	497-2726-5-ND‡	1.62	13.50	113.40	—	—	—	STPS20H100CT
	100	2 x 30A	—	TO-220AB	497-3812-5-ND‡	3.59	31.26	232.75	—	—	—	STPS60H100CT
	120	2 x 10A	—	TO-220AB	497-4626-5-ND‡	1.31	11.38	87.50	—	—	—	STPS20120CT
	120	2 x 20A	—	TO-220AB	497-4629-5-ND‡	1.80	15.00	126.00	—	—	—	STPS40120CT
	150	2 x 8A	—	TO-220AB	497-2739-5-ND‡	2.10	17.50	147.00	—	—	—	STPS16150CT
	150	2 x 10A	—	TO-220AB	497-2730-5-ND‡	2.40	20.00	168.00	—	—	—	STPS20150CT
	150	2 x 20A	—	TO-220AB	497-3217-5-ND‡	3.38	29.38	218.75	—	—	—	STPS40150CT
	170	2 x 10A	—	TO-220AB	497-3525-5-ND‡	2.55	21.25	178.50	—	—	—	STPS20170CT
	170	2 x 15A	—	TO-220AB	497-4825-5-ND‡ ***NEW!***	1.58	13.20	110.88	—	—	—	STPS30170CT
	170	2 x 20A	—	TO-220AB	497-4827-5-ND‡ ***NEW!***	1.65	14.30	110.00	—	—	—	STPS40170CT
	170	2 x 30A	—	TO-220AB	497-4828-5-ND‡ ***NEW!***	2.81	23.38	196.35	—	—	—	STPS60170CT
5A	45	2 x 60A	—	ISOTOP	497-3207-5-ND‡	18.38	157.50	1396.50	—	—	—	STPS12045TV
	45	2 x 80A	—	ISOTOP	497-2741-5-ND‡	21.07	180.60	1601.32	—	—	—	STPS16045TV
	100	2 x 80A	—	ISOTOP	497-2723-5-ND‡	26.95	231.00	2048.20	—	—	—	STPS160H100TV
	600	2 x 60A	—	ISOTOP	497-3811-5-ND‡	24.50	210.00	1862.00	—	—	—	STTH120L06TV1
5B	170	2 x 100A	—	ISOTOP	497-5022-5-ND‡ ***NEW!***	21.00	180.00	1596.00	—	—	—	STPS200170TV1
6	15	2 x 20A	—	TO-247	497-2687-5-ND‡	3.47	30.24	225.23	—	—	—	STPS40L15CW
	30	2 x 30A	—	TO-247	497-2755-5-ND‡	4.10	35.67	265.65	—	—	—	STPS60L40CW
	45	2 x 30A	—	TO-247	497-3803-5-ND‡	3.27	28.44	211.75	—	—	—	STPS6045CW
	45	2 x 30A	—	TO-247	497-3745-5-ND‡	4.40	38.31	285.25	—	—	—	STPS60L45CW
	100	2 x 20A	—	TO-247	497-2725-5-ND‡	2.75	23.97	178.50	—	—	—	STPS40H100CW
	100	2 x 30A	—	TO-247	497-3220-5-ND‡	5.67	49.35	367.50	—	—	—	STPS61H100CW
	150	2 x 20A	—	TO-247	497-3218-5-ND‡	3.65	31.73	236.25	—	—	—	STPS40150CW
	150	2 x 30A	—	TO-247	497-3219-5-ND‡	5.67	49.35	367.50	—	—	—	STPS61150CW
	150	2 x 40A	—	TO-247	497-3221-5-ND‡	6.33	57.75	456.50	—	—	—	STPS80150CW
	170	2 x 15A	—	TO-247	497-4826-5-ND‡ ***NEW!***	1.75	14.58	122.43	—	—	—	STPS30170CW
	170	2 x 20A	—	TO-247	497-4814-5-ND‡ ***NEW!***	1.86	16.09	123.75	—	—	—	STPS40170CW
	170	2 x 30A	—	TO-247	497-4823-5-ND‡ ***NEW!***	3.56	31.02	231.00	—	—	—	STPS61170CW
	170	2 x 40A	—	TO-247	497-4815-5-ND‡ ***NEW!***	4.01	34.90	259.88	—	—	—	STPS80170CW
7D	30	0.3A	250	SOT-23	497-2522-1-ND	.40	2.70	18.72	497-2522-2-ND	3,000	72.00/M	BAT54SFILM
7C	30	0.3A	250	SOT-23	497-3786-1-ND	.40	2.70	18.72	497-3786-2-ND	3,000	72.00/M	BAT54CFILM
7B	30	100mA	250	SOT-23	497-2514-1-ND	.40	2.70	18.72	497-2514-2-ND	3,000	72.00/M	BAR43AFILM
7D	30	100mA	250	SOT-23	497-2515-1-ND	.40	2.70	18.72	497-2515-2-ND	3,000	72.00/M	BAR43SFILM
7A	30	100mA	250	SOT-23	497-2518-1-ND	.40	2.70	18.72	497-2518-2-ND	3,000	72.00/M	BAR42FILM
7C	30	100mA	250	SOT-23	497-2520-1-ND	.40	2.70	18.72	497-2520-2-ND	3,000	72.00/M	BAR43CFILM
7A	30	100mA	250	SOT-23	497-2521-1-ND	.40	2.70	18.72	497-2521-2-ND	3,000	72.00/M	BAR43FILM
7A	70	70mA	250	SOT-23	497-2529-1-ND	.41	3.00	21.12	497-2529-2-ND	3,000	86.00/M	BAR18FILM
7D	70	70mA	250	SOT-23	497-2516-1-ND	.40	2.70	18.72	497-2516-2-ND	3,000	72.00/M	BAS70-04FILM
7B	30	0.3A	230	SOT-323	497-2528-1-ND	.40	2.70	18.72	497-2528-2-ND	3,000	72.00/M	BAT54AWFILM
7A	30	0.3A	230	SOT-323	497-2530-1-ND	.40	2.70	18.72	497-2530-2-ND	3,000	72.00/M	BAT54WFILM
8	30	8A	—	DPAK	497-3222-1-ND	1.80	15.60	120.00	497-3222-2-ND	2,500	638.00/M	STPS8L30B-TR
9	40	3A	—	DPAK	497-2466-1-ND	.81	5.85	45.00	497-2466-2-ND	2,500	257.00/M	STPS340B-TR
	45	2 x 7.5A	—	DPAK	497-3208-1-ND	1.50	12.50	105.00	497-3208-2-ND	2,500	650.00/M	STPS15H100CB-TR
	100	2 x 7.5A	—	DPAK	497-2748-5-ND‡	1.01	8.78	67.50	—	—	—	STPS15L45CB
	100	5A	—	DPAK	497-2640-5-ND‡	1.68	14.00	117.60	—	—	—	STPS5H100B
10	45	2 x 10A	—	D^{2}PAK	497-2752-5-ND‡	1.35	11.70	90.00	—	—	—	STPS20L45CG
	45	2 x 20A	—	D^{2}PAK	497-3528-1-ND	2.49	20.75	174.30	497-3528-2-ND	1,000	1121.00	STPS40L45CG-TR
	45	2 x 20A	—	D^{2}PAK	497-4759-1-ND ***NEW!***	1.86	16.09	123.75	497-4759-2-ND ***NEW!***	1,000	718.00	STPS41L45CG-TR
	100	2 x 5A	—	D^{2}PAK	497-4816-5-ND‡ ***NEW!***	1.03	8.94	68.75	—	—	—	STPS10H100CG
	100	2 x 8A	—	D^{2}PAK	497-2722-5-ND‡	1.35	10.80	81.00	—	—	—	STPS16H100G
	100	2 x 10A	—	D^{2}PAK	497-2457-1-ND	1.62	13.50	113.40	497-2457-2-ND	1,000	729.00	STPS20H100CG-TR
	150	2 x 20A	—	D^{2}PAK	497-3527-5-ND‡	2.70	23.50	175.00	—	—	—	STPS40150CG
	150	2 x 20A	—	D^{2}PAK	497-3754-1-ND	2.34	19.50	163.80	497-3754-2-ND	1,000	1053.00	STPS40150CG-TR
	170	2 x 10A	—	D^{2}PAK	497-4761-1-ND ***NEW!***	1.44	12.51	96.25	497-4761-2-ND ***NEW!***	1,000	558.00	STPS20170CG-TR
	170	2 x 20A	—	D^{2}PAK	497-4760-1-ND ***NEW!***	1.65	14.30	110.00	497-4760-2-ND ***NEW!***	1,000	638.00	STPS40170CG-TR
	600	12A	—	D^{2}PAK	497-3814-5-ND‡	1.80	15.60	120.00	—	—	—	STTH12R06G

‡ Tube   § Ammo Pack   ◊ Bulk

(Continued)

Schottky Diodes *(Cont.)*

Fig.	V_{RRM} (V)	I_F	P_{TOT} (mW)	Package Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
11	100	2 x 40A	—	MAX247	497-2724-5-ND‡	13.00	120.25	910.00	—	—	—	STPS80H100CY
12	30	1A	—	SMA	497-3755-1-ND	.50	4.00	30.00	497-3755-2-ND	5,000	140.00/M	STPS130A
	30	2A	—	SMA	497-3759-1-ND	.81	6.48	48.60	497-3759-2-ND	5,000	243.00/M	STPS2L30A
	40	1A	—	SMA	497-2453-1-ND	.42	3.25	23.40	497-2453-2-ND	5,000	104.00/M	STPS140A
	40	1A	—	SMA	497-3753-1-ND	.55	4.25	25.50	497-3753-2-ND	5,000	136.00/M	STPS1L40A
	60	1A	—	SMA	497-2463-1-ND	.68	2.88	21.60	497-2463-2-ND	5,000	136.00/M	STPS1L60A
	60	1A	—	SMA	497-3756-1-ND	.72	5.76	43.20	497-3756-2-ND	5,000	216.00/M	STPS160A
	60	2A	—	SMA	497-2461-1-ND	.55	3.40	25.50	497-2461-2-ND	5,000	136.00/M	STPS2L60A
	100	1A	—	SMA	497-3209-1-ND	.86	6.84	51.30	497-3209-2-ND	5,000	257.00/M	STPS1H100A
	100	2A	—	SMA	497-3758-1-ND	.90	7.20	54.00	497-3758-2-ND	5,000	270.00/M	STPS2H100A
	150	2A	—	SMA	497-2467-1-ND	.38	3.00	22.50	497-2467-2-ND	5,000	105.00/M	STPS2150A
	30	1A	—	SMB	497-2468-1-ND	.49	3.75	27.00	497-2468-2-ND	2,500	128.00/M	STPS1L30U
	40	1A	—	SMB	497-2490-1-ND	.50	3.85	27.72	497-2490-2-ND	2,500	131.00/M	STPS140U
	40	3A	—	SMB	497-2465-1-ND	.68	5.40	40.50	497-2465-2-ND	2,500	214.00/M	STPS340U
	100	1A	—	SMB	497-3210-1-ND	1.28	11.05	85.00	497-3210-2-ND	2,500	452.00/M	STPS1H100U
	25	3A	—	SMC	497-3760-1-ND	.90	7.20	54.00	497-3760-2-ND	2,500	285.00/M	STPS3L25S
	40	3A	—	SMC	497-2464-1-ND	1.01	8.78	67.50	497-2464-2-ND	2,500	215.00/M	STPS340S
	40	3A	—	SMC	497-4673-1-ND ***NEW!***	.72	5.76	43.20	497-4673-2-ND ***NEW!***	2,500	228.00/M	STPS3L40S
	60	3A	—	SMC	497-2454-1-ND	1.13	9.75	75.00	497-2454-2-ND	2,500	215.00/M	STPS3L60S
13	20	0.5A	—	SOD-123	497-3205-1-ND	.65	5.20	39.00	497-3205-2-ND	3,000	195.00/M	STPS0520Z
	60	0.5A	—	SOD-123	497-3787-1-ND	.42	2.60	19.50	497-3787-2-ND	3,000	111.00/M	STPS0560Z
14	20	0.5A	—	DO-216AA	497-4390-1-ND	.55	4.25	30.60	497-4390-2-ND	12,000	128.00/M	STPS0520M
	20	1A	—	DO-216AA	497-3211-1-ND	.60	4.80	36.00	497-3211-2-ND	12,000	160.00/M	STPS1L20M
	40	1A	—	DO-216AA	497-3212-1-ND	.60	4.80	36.00	497-3212-2-ND	12,000	160.00/M	STPS1L40M
15	30	200mA	200	MINIMELF	497-3272-1-ND	.55	4.40	33.00	497-3272-2-ND	2,500	165.00/M	TMMBAT42FILM
	40	350mA	330	MINIMELF	497-3274-1-ND	.65	5.20	39.00	497-3274-2-ND	2,500	195.00/M	TMMBAT48FILM
	100	150mA	150	MINIMELF	497-3273-1-ND	.55	4.40	33.00	497-3273-2-ND	2,500	165.00/M	TMMBAT46FILM
16	45	2 x 15A	—	SOT-93	497-3215-5-ND‡	2.84	24.68	183.75	—	—	—	STPS3045CP
17	50	4A	—	Dip-16	497-3646-ND	2.97	24.75	207.90	—	—	—	L6210
18	10	3A	310	SOD-323	497-3707-1-ND	.60	4.80	36.00	497-3707-2-ND	3,000	180.00/M	BAT60JFILM
	23	1A	—	SOD-323	497-3381-1-ND	.46	3.50	25.20	497-3381-2-ND	3,000	119.00/M	BAT20JFILM
19	45	2 x 15A	—	TOP-3I	497-3526-ND◊	3.65	31.73	236.25	—	—	—	STPS3045CPIRG
	45	2 x 30A	—	TOP-3I	497-3529-ND◊	4.86	42.30	315.00	—	—	—	STPS6045CPIRG
20	80	500mA	—	MELF	497-3788-1-ND	.43	3.30	23.76	497-3788-2-ND	1,500	119.00/M	TMBAT49FILM
21	45	2 x 15A	—	TO-220FPAB	497-4393-5-ND‡	1.73	14.95	115.00	—	—	—	STPS30L45CFP
	45	2 x 15A	—	TO-220FPAB	497-4628-5-ND‡	1.39	12.03	92.50	—	—	—	STPS3045CFP
	150	2 x 10A	—	TO-220FPAB	497-4391-5-ND‡	1.50	12.50	105.00	—	—	—	STPS20150CFP
	170	2 x 15A	—	TO-220FPAB	497-4824-5-ND‡ ***NEW!***	1.75	14.58	122.43	—	—	—	STPS30170CFP
22	45	2 x 10A	—	I^2PAK	497-4392-5-ND‡	1.39	12.03	92.50	—	—	—	STPS2045CR
	45	2 x 15A	—	I^2PAK	497-4394-5-ND‡	1.50	12.50	105.00	—	—	—	STPS30L45CR
	120	2 x 10A	—	I^2PAK	497-4625-5-ND‡	1.31	11.38	87.50	—	—	—	STPS20120CR
	170	2 x 10A	—	I^2PAK	497-4822-5-ND‡ ***NEW!***	1.40	12.16	93.50	—	—	—	STPS20170CR

‡ Tube § Ammo Pack ◊ Bulk

Fast Diodes

RoHS Compliant Parts Available

Fig. 1 — DO-15, DO-201AD, DO-41

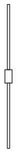

Fig. 2 — TO-220AC

A.
1. Cathode
2. Anode
3. Cathode

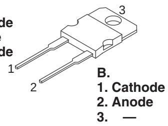

B.
1. Cathode
2. Anode
3. —

Fig. 3 — TO-220AB

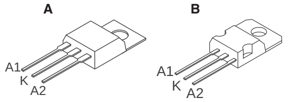

Fig. 4 — TO-247

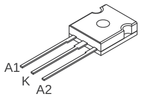

Fig. 5 — DOP3I Insulated

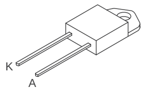

Fig. 6 — ISOTOP

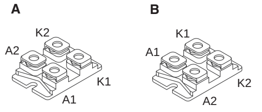

Fig. 7 — ISOTOP

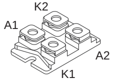

Fig. 8 — SOT-93

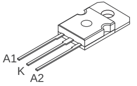

Fig. 9 — SMA, SMB, SMC

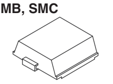

Fig. 10 — SOD93

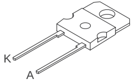

Fig. 11 — TO-220FPAC

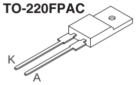

Fig. 12 — TO-220AB Insulated

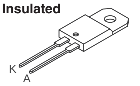

Fig. 13 — TO-220AC Insulated

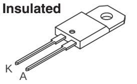

Fig. 14 — DPAK

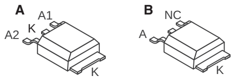

Fig. 15 — D²PAK

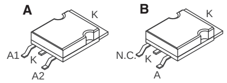

Fig. 16 — I²PAK

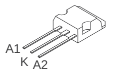

Fig. 17 — TO-220FPAB

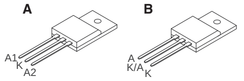

Fig. 18 — TOP3I

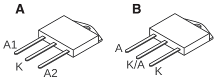

Fig. 19 — DO-247

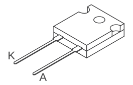

Fig. 20 — TO-220FPAB F5

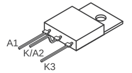

Fig. 21 — TO-220FPAB FD6

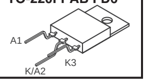

Fig.	V_{RRM} (V)	I_F	Package Type	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
1	200	1.5A	DO-15	497-2510-1-ND	.49	3.75	27.00	497-2510-2-ND	6,000	120.00/M	BYW100-200RL
	200	1.5A	DO-15	497-3132-1-ND	.49	3.75	27.00	497-3132-3-ND§	1,000	135.00	BYW100-200
	400	1A	DO-15	497-2446-1-ND	.36	2.75	19.80	497-2446-3-ND§	1,000	110.00	BYT01-400
	800	2A	DO-15	497-2443-1-ND	.70	4.55	35.00	497-2443-3-ND§	1,000	224.00	STTH208
	200	3A	DO-201AD	497-2497-1-ND	.68	5.40	40.50	497-2497-2-ND	1,900	233.00/M	BYW98-200RL
	200	3A	DO-201AD	497-3133-1-ND	.66	5.72	44.00	497-3133-3-ND§	600	195.60	BYW98-200
	200	3A	DO-201AD	497-2445-1-ND	.55	2.76	21.25	497-2445-3-ND§	600	107.10	STTH302
	600	3A	DO-201AD	497-3246-1-ND	.75	4.88	37.50	497-3246-3-ND§	600	171.00	STTH3L06
	600	3A	DO-201AD	497-4414-1-ND	.81	6.48	48.60	497-4414-3-ND§	600	199.80	STTH3R06
	600	3A	DO-201AD	497-4415-1-ND	.81	6.48	48.60	497-4415-2-ND	1,900	279.00/M	STTH3R06RL
	1,000	3A	DO-201AD	497-2442-1-ND	.70	5.60	42.00	497-2442-3-ND§	600	159.60	STTH310
	200	1A	DO-41	497-3666-1-ND	.94	8.13	62.50	497-3666-2-ND	2,000	363.00/M	STTH102
	600	1A	DO-41	497-3242-1-ND	.90	7.20	54.00	497-3242-2-ND	5,000	270.00/M	STTH1L06RL
	600	1A	DO-41	497-3243-1-ND	.50	4.00	30.00	497-3243-2-ND	5,000	140.00/M	STTH1R06RL
	600	2A	DO-41	497-3548-ND◊	.95	7.56	56.70	—	—	—	STTH2L06
	600	2A	DO-41	497-3752-1-ND	.55	3.96	29.70	497-3752-3-ND§	2,000	176.00/M	STTH2R06
	600	2A	DO-41	497-4409-1-ND	.55	4.40	33.00	497-4409-2-ND	5,000	154.00/M	STTH2R06RL
	1,000	1A	DO-41	497-2444-1-ND	.53	4.20	31.50	497-2444-3-ND§	2,000	168.00/M	STTH110
2B	200	8A	TO-220AC	497-2710-5-ND‡	.95	7.56	56.70	—	—	—	STPR820D
2B	200	15A	TO-220AC	497-3204-5-ND‡	1.95	16.25	136.50	—	—	—	STPR1520D
2B	200	20A	TO-220AC	497-2692-5-ND‡	1.16	10.01	77.00	—	—	—	BYW80-200
2A	600	5A	TO-220AC	497-3239-5-ND‡	1.50	13.00	100.00	—	—	—	STTA506D
2A	600	5A	TO-220AC	497-2746-5-ND‡	1.50	12.50	105.00	—	—	—	STTH5R06D
2A	600	8A	TO-220AC	497-2745-5-ND‡	1.95	16.25	136.50	—	—	—	STTH8R06D
2A	600	8A	TO-220AC	497-2697-5-ND‡	1.31	11.38	87.50	—	—	—	STTA806D
2B	600	8A	TO-220AC	497-2744-5-ND‡	1.16	10.08	77.50	—	—	—	STTH8LO6D
2B	600	8A	TO-220AC	497-2399-ND◊	2.58	21.53	180.81	—	—	—	STTA806DI
2A	600	12A	TO-220AC	497-2685-5-ND‡	1.69	14.63	112.50	—	—	—	STTA1206D
2B	600	30A	TO-220AC	497-3800-5-ND‡	2.52	21.00	176.40	—	—	—	STTH30L06D
2B	600	30A	TO-220AC	497-4412-5-ND‡	1.59	13.25	111.30	—	—	—	STTH30R06D
2B	1,000	12A	TO-220AC	497-2428-ND◊	4.68	40.73	303.28	—	—	—	BYT12PI-1000
3A	200	2 x 10A	TO-220AB	497-2693-5-ND‡	1.32	11.44	88.00	—	—	—	BYW51-200

‡ Tube ◊ Bulk § Ammo Pack

(Continued)

Fast Diodes *(Cont.)*

Fig.	V_{RRM} (V)	I_F	Package Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
					1	10	100		Size	Pricing	
3B	200	8A	TO-220AB	497-3540-5-ND‡	1.39	12.03	92.50	—	—	—	STTH1002CT
	200	10A	TO-220AB	497-3544-5-ND‡	1.69	14.63	112.50	—	—	—	STTH1602CT
	200	15A	TO-220AB	497-3547-5-ND‡	1.80	15.00	126.00	—	—	—	STTH2002CT
	200	15A	TO-220AB	497-3551-5-ND‡	4.00	34.78	259.00	—	—	—	STTH3002CT
	200	16A	TO-220AB	497-3810-5-ND‡	1.28	11.05	85.00	—	—	—	STPR1620CT
	200	20A	TO-220AB	497-3818-5-ND‡	1.62	13.50	113.40	—	—	—	STTH16L06CT
	300	2 x 10A	TO-220AB	497-2743-5-ND‡	2.22	18.50	155.40	—	—	—	STTH2003CT
	600	40A	TO-220AB	497-3802-5-ND‡	2.91	22.80	203.70	—	—	—	STTH30L06CT
4	200	15A	TO-247	497-2688-5-ND‡	3.12	27.14	202.13	—	—	—	BYW99W-200
	200	15A	TO-247	497-3552-5-ND‡	4.37	38.07	283.50	—	—	—	STTH3002CW
	200	30A	TO-247	497-3553-5-ND‡	5.00	43.48	323.75	—	—	—	STTH6002CW
	300	2 x 15A	TO-247	497-2742-5-ND‡	4.16	36.19	269.50	—	—	—	STTH3003CW
	300	2 x 30A	TO-247	497-2720-5-ND‡	5.00	43.48	323.75	—	—	—	STTH6003CW
	300	60A	TO-247	497-4416-5-ND‡	2.40	20.00	168.00	—	—	—	STTH60P03SW
	600	40A	TO-247	497-3797-5-ND‡	2.81	24.44	182.00	—	—	—	STTH30L06CW
	600	80A	TO-247	497-3790-5-ND‡	4.05	35.25	262.50	—	—	—	STTH60L06CW
	600	2 x 15A	TO-247	497-2683-5-ND‡	5.05	43.95	327.25	—	—	—	STTA3006CW
5	600	15A	Insulated DOP3I	497-3240-5-ND‡	5.40	47.00	350.00	—	—	—	STTH1506DPI
	1,200	15A	Insulated DOP3I	497-3533-ND◊	4.64	40.42	301.00	—	—	—	STTA1512PIRG
	600	30A	Insulated DOP3I	497-3245-5-ND‡	9.20	84.00	664.00	—	—	—	STTH3006DPI
	600	30A	Insulated DOP3I	497-4630-5-ND‡	3.51	30.55	227.50	—	—	—	STTH30L06PI
	600	2 x 30A	Insulated DOP3I	497-3535-5-ND‡	5.86	51.00	379.75	—	—	—	STTA3006PIRG
	600	20A	Insulated DOP3I	497-3534-ND◊	4.89	42.54	316.75	—	—	—	STTA2006PIRG
	1,000	30A	Insulated DOP3I	497-2424-ND◊	7.46	68.15	538.67	—	—	—	BYT30PI-1000
	200	25	Isolated DOP3I	497-3808-5-ND‡	2.97	25.85	192.50	—	—	—	BYW77PI-200RG
	400	30A	Isolated DOP3I	497-3806-5-ND‡	2.94	25.62	190.75	—	—	—	BYT30PI-400RG
6A	200	2 x 30A	ISOTOP	497-3554-5-ND‡	18.64	159.75	1416.45	—	—	—	STTH6102TV1
	200	2 x 60A	ISOTOP	497-3541-5-ND‡	17.59	150.75	1336.65	—	—	—	STTH12002TV1
	200	120A	ISOTOP	497-3819-5-ND‡	36.75	315.00	2793.00	—	—	—	STTH20002TV1
	400	2 x 60A	ISOTOP	497-5023-5-ND‡ ***NEW!***	22.75	195.00	1729.00	—	—	—	STTH12004TV1
	600	2 x 30A	ISOTOP	497-2699-5-ND‡	15.60	144.30	1092.00	—	—	—	STTA6006TV1
	600	40A	ISOTOP	497-3796-5-ND‡	21.00	180.00	1596.00	—	—	—	STTH60L06TV1
	600	2 x 120A	ISOTOP	497-4408-5-ND‡	26.25	225.00	1995.00	—	—	—	STTH200L06TV1
6B	200	50A	ISOTOP	497-2689-5-ND‡	19.04	176.12	1332.80	—	—	—	BYV541V-200
	200	100A	ISOTOP	497-2694-5-ND‡	32.73	280.50	2487.10	—	—	—	BYV255V-200
	400	60A	ISOTOP	497-2681-5-ND‡	18.01	154.35	1368.57	—	—	—	BYT261PIV-400
7	600	2 x 30A	ISOTOP	497-2698-5-ND‡	15.60	144.30	1092.00	—	—	—	STTA6006TV2
	1,000	2 x 30A	ISOTOP	497-3749-5-ND‡	18.00	166.50	1260.00	—	—	—	BYT230PIV-1000
	1,200	2 x 45A	ISOTOP	497-3746-5-ND‡	29.75	255.00	2261.00	—	—	—	STTA9012TV2
8	200	15A	SOT-93	497-2691-5-ND‡	3.47	30.24	225.23	—	—	—	BYW99P-200
9	200	1A	SMA	497-2500-1-ND	.36	2.75	19.80	497-2500-2-ND	5,000	94.00/M	STTH102A
	600	1A	SMA	497-3241-1-ND	.68	5.40	40.50	497-3241-2-ND	5,000	203.00/M	STTH1L06A
	600	1A	SMA	497-3765-1-ND	.55	4.25	25.50	497-3765-2-ND	5,000	136.00/M	STTH1R06A
	600	2A	SMA	497-3549-1-ND	1.04	8.28	62.10	497-3549-2-ND	5,000	311.00/M	STTH2L06A
	600	2A	SMA	497-3777-1-ND	.81	6.48	48.60	497-3777-2-ND	5,000	243.00/M	STTH2R06A
	800	1A	SMA	497-2459-1-ND	1.13	9.75	75.00	497-2459-2-ND	5,000	154.00/M	STTH108A
	200	1A	SMB	497-2509-1-ND	.49	3.75	27.00	497-2509-2-ND	2,500	128.00/M	SMBYW01-200
	200	2A	SMB	497-2511-1-ND	.90	7.20	54.00	497-2511-2-ND	2,500	150.00/M	SMBY20W-200
	400	1A	SMB	497-3147-1-ND	2.70	22.50	189.00	497-3147-2-ND	2,500	1170.00/M	SMBYT01-400
	600	1A	SMB	497-2494-1-ND	1.50	13.00	100.00	—	—	—	STTA106U
	600	1A	SMB	497-3766-1-ND	.50	4.00	30.00	497-3766-2-ND	2,500	150.00/M	STTH1L06U
	600	1A	SMB	497-4406-1-ND	.55	4.25	30.60	497-4406-2-ND	2,500	145.00/M	STTH1R06U
	600	2A	SMB	497-3757-1-ND	.65	5.20	35.10	497-3757-2-ND	2,500	195.00/M	STTH2L06U
	600	2A	SMB	497-3776-1-ND	.65	4.68	35.10	497-3776-2-ND	2,500	195.00/M	STTH2R06U
	600	3A	SMB	497-3771-1-ND	.81	6.48	48.60	497-3771-2-ND	2,500	257.00/M	STTH3L06U
	600	3A	SMB	497-3767-1-ND	.86	6.84	51.30	497-3767-2-ND	2,500	271.00/M	STTH3R06U
	1,200	1A	SMB	497-3237-1-ND	.94	8.13	62.50	—	—	—	STTA112U
	1,200	1A	SMB	497-2460-1-ND	.68	5.40	40.50	497-2460-2-ND	2,500	203.00/M	STTH112U
	200	4A	SMC	497-2502-1-ND	.72	5.76	40.00	497-2502-2-ND	2,500	228.00/M	SMBYW04-200
	400	3A	SMC	497-3762-1-ND	.65	4.68	35.10	497-3762-2-ND	2,500	195.00/M	SMBYT03-400
	600	2A	SMC	497-4674-1-ND ***NEW!***	.77	6.12	45.90	497-4674-2-ND ***NEW!***	2,500	242.00/M	STTH2R06S
	600	3A	SMC	497-3764-1-ND	.95	7.56	56.70	497-3764-2-ND	2,500	299.00/M	STTH3L06S
	600	3A	SMC	497-3779-1-ND	.86	6.84	51.30	497-3779-2-ND	2,500	271.00/M	STTH3R06S
	1,200	2A	SMC	497-4754-1-ND ***NEW!***	1.03	8.94	68.75	497-4754-2-ND ***NEW!***	2,500	366.00/M	STTH212S
10	400	2 x 60A	SOD93	497-3131-5-ND‡	7.66	69.93	552.78	—	—	—	BYT60P-400
	600	2 x 30A	SOD93	497-2682-5-ND‡	3.38	29.38	218.75	—	—	—	STTA3006P
	600	20A	SOD93	497-2684-5-ND‡	3.27	28.44	211.75	—	—	—	STTA2006P
	600	30A	SOD93	497-4631-5-ND‡	3.11	27.03	201.25	—	—	—	STTH30R06P
11	200	10A	TO-220FPAC	497-4187-5-ND‡	1.58	13.65	105.00	—	—	—	BYW80FP-200
	600	5A	TO-220FPAC	497-3747-5-ND‡	.95	8.19	63.00	—	—	—	STTH5L06FP
	600	5A	TO-220FPAC	497-3249-5-ND‡	1.50	12.50	105.00	—	—	—	STTH5R06FP
	600	15A	TO-220FPAC	497-4404-5-ND‡	1.68	14.00	117.60	—	—	—	STTH15L06FP
	1,200	5A	TO-220FPAC	497-4402-5-ND‡	1.43	12.35	95.00	—	—	—	STTA512FP
	1,500	6A	TO-220FPAC	497-4200-5-ND‡	1.73	14.95	115.00	—	—	—	DTV1500HDFP
	1,500	6A	TO-220FPAC	497-4201-5-ND‡	1.54	13.33	102.50	—	—	—	DTV1500SDFP
12	600	8A	Insulated TO-220AB	497-3250-5-ND‡	3.24	28.20	210.00	—	—	—	STTH806DTI
13	600	5A	Insulated TO-220AC	497-3247-5-ND‡	2.70	23.50	175.00	—	—	—	STTH506DTI
	600	8A	Insulated TO-220AC	497-4418-5-ND‡	1.35	11.70	90.00	—	—	—	STTH8L06DIRG
	600	8A	Insulated TO-220AC	497-4419-5-ND‡	1.28	11.05	85.00	—	—	—	STTH8R06DIRG
	600	12A	Insulated TO-220AC	497-4403-5-ND‡	1.80	15.00	126.00	—	—	—	STTH12R06DIRG
	1,000	12A	Insulated TO-220AC	497-4810-5-ND‡ ***NEW!***	5.19	43.25	363.30	—	—	—	BYT12PI-1000RG
14A	200	8A	DPAK	497-3536-5-ND‡	1.13	9.75	75.00	—	—	—	STTH1002CB
	200	2 x 4A	DPAK	497-4753-1-ND ***NEW!***	.94	7.52	56.43	497-4753-2-ND ***NEW!***	2,500	298.00/M	STTH802CB-TR
14B	600	3A	DPAK	497-3769-1-ND	.81	5.85	45.00	497-3769-2-ND	2,500	257.00/M	STTH3L06B-TR
	600	5A	DPAK	497-3248-1-ND	1.80	15.60	120.00	497-3248-2-ND	2,500	638.00/M	STTH5L06B-TR
15A	200	8A	D²PAK	497-3538-5-ND‡	1.13	9.75	75.00	—	—	—	STTH1002CG
	200	8A	D²PAK	497-3778-1-ND	.94	8.13	62.50	497-3778-2-ND	1,000	363.00	BYW29G-200-TR
	200	10A	D²PAK	497-3543-5-ND‡	1.73	14.95	115.00	—	—	—	STTH1602CG
	200	15A	D²PAK	497-3546-5-ND‡	1.83	15.25	128.10	—	—	—	STTH2002CG
	200	15A	D²PAK	497-3550-5-ND‡	3.83	33.37	248.50	—	—	—	STTH3002CG
	200	30A	D²PAK	497-3761-1-ND	1.50	12.50	105.00	497-3761-2-ND	1,000	675.00	STTH2002CG-TR
	200	30A	D²PAK	497-3775-1-ND	1.83	15.25	128.10	497-3775-2-ND	1,000	824.00	STTH3002CG-TR
	600	8A	D²PAK	497-3763-1-ND	1.35	11.70	90.00	497-3763-2-ND	1,000	522.00	STTH8L06G-TR
	600	20A	D²PAK	497-3817-5-ND‡	1.68	14.00	117.60	—	—	—	STTH16L06CG
	600	20A	D²PAK	497-3816-5-ND‡	1.80	15.00	126.00	—	—	—	STTH15L06G
	600	40A	D²PAK	497-3813-5-ND‡	2.75	23.97	178.50	—	—	—	STTH30L06CG
15B	300	8A	D²PAK	497-4417-1-ND	1.28	11.05	85.00	497-4417-2-ND	1,000	493.00	STTH803G-TR
16	200	8A	I²PAK	497-3539-5-ND‡	1.39	12.03	92.50	—	—	—	STTH1002CR
	200	20A	I²PAK	497-3801-5-ND‡	1.09	9.43	72.50	—	—	—	STTH1602CR
	200	30A	I²PAK	497-3774-5-ND	1.95	16.25	136.50	—	—	—	STTH3002CR
17A	200	10A	TO-220FPAB	497-3542-5-ND‡	1.43	12.35	95.00	—	—	—	STTH1602CFP
	200	15A	TO-220FPAB	497-3545-5-ND‡	1.73	14.95	115.00	—	—	—	STTH2002CFP
	200	8A	TO-220FPAB	497-3537-5-ND‡	1.13	9.75	75.00	—	—	—	STTH1002CFP
	300	2 x 10A	TO-220FPAB	497-4407-5-ND‡	2.40	20.00	168.00	—	—	—	STTH2003CFP
	600	8A	TO-220FPAB	497-4405-5-ND‡	1.68	14.00	117.60	—	—	—	STTH16L06CFP
17B	600	3A	TO-220FPAB	497-4190-5-ND‡	1.89	15.75	132.30	—	—	—	DMV1500HFD
	600	3A	TO-220FPAB	497-4192-5-ND‡	1.46	12.68	97.50	—	—	—	DMV1500L
	600	3A	TO-220FPAB	497-4194-5-ND‡	1.46	12.68	97.50	—	—	—	DMV1500LFD
	600	3A	TO-220FPAB	497-4196-5-ND‡	1.61	13.98	107.50	—	—	—	DMV1500MFD

‡ Tube ◊ Bulk § Ammo Pack

(Continued)

Fast Diodes *(Cont.)*

Fig.	V_{RRM} (V)	I_F	Package Type	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
					1	10	100		Size	Pricing	
17B	600	6A	TO-220FPAB	497-4198-5-ND‡	1.65	14.30	110.00	—	—	—	DMV1500SDFD
18A	200	15A	Isolated TOP3	497-3809-5-ND‡	2.97	25.85	192.50	—	—	—	BYW99PI-200RG
	200	30A	Isolated TOP3	497-3807-5-ND‡	6.10	55.65	439.90	—	—	—	BYV52PI-200RG
18B	600	30A	Isolated TOP3	497-4410-5-ND‡	5.75	52.50	415.00	—	—	—	STTH3006TPI
19	600	30A	DO-247	497-4411-5-ND‡	2.52	21.00	176.40	—	—	—	STTH30L06W
	600	30A	DO-247	497-4413-5-ND‡	1.65	13.75	115.50	—	—	—	STTH30R06W
	600	60A	DO-247	497-3799-5-ND‡	4.16	36.19	269.50	—	—	—	STTH60L06W
20	600	3A	TO-220FPAB F5	497-4191-5-ND‡	1.92	16.00	134.40	—	—	—	DMV1500HFD5
	600	3A	TO-220FPAB F5	497-4193-5-ND‡	1.46	12.68	97.50	—	—	—	DMV1500LF5
	600	3A	TO-220FPAB F5	497-4195-5-ND‡	1.50	13.00	100.00	—	—	—	DMV1500LFD5
	600	3A	TO-220FPAB F5	497-4197-5-ND‡	1.65	14.30	110.00	—	—	—	DMV1500MFD5
21	600	6A	TO-220FPAB FD6	497-4199-5-ND‡	1.65	14.30	110.00	—	—	—	DMV1500SDFD6

‡ Tube ◊ Bulk § Ammo Pack

Surface Mount Schottky Barrier Rectifiers

Fig. 1 — UMA UltraMite™

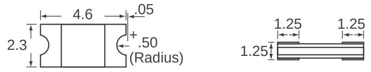

Fig. 2 — UMAF UltraMite

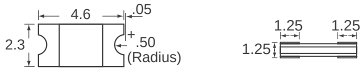

Fig. 3 — POWERMITE®

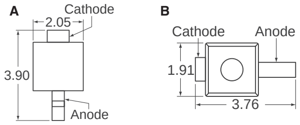

Fig. 4 — POWERMITE®3

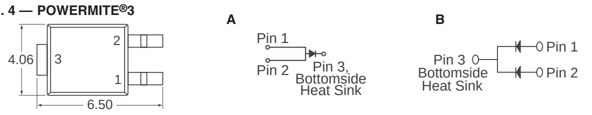

Fig. 5 — POWERDI™5

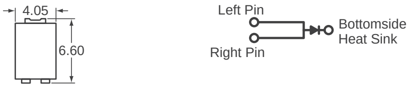

Fig.	Forward Average Rectified Current (A)	Working Peak Reverse Voltage (V)	Maximum Forward Voltage @ Amps (V)	(A)	Maximum dc Reverse Current @ V_{RWM} (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
							1	10	100		Size	Pricing
UMA UltraMite												
1	1.0	20	0.75	3.0	0.5	UMA5817CT-ND	.30	2.00	16.00	UMA5817TR-ND	3,000	100.00/M
		30	0.875	3.0	0.5	UMA5818CT-ND	.30	2.00	16.00	UMA5818TR-ND	3,000	100.00/M
		40	0.90	3.0	0.5	UMA5819CT-ND	.30	2.00	16.00	UMA5819TR-ND	3,000	100.00/M
UMAF UltraMite — RoHS Compliant												
2	1.0	20	0.75	3.0	0.5	UMAF5817CT-ND	.30	2.00	16.00	UMAF5817TR-ND	3,000	100.00/M
		30	0.875	3.0	0.5	UMAF5818CT-ND	.30	2.00	16.00	—	—	—
		40	0.9	3.0	0.5	UMAF5819CT-ND	.30	2.00	16.00	—	—	—
POWERMITE												
3A	1.0	20	0.65	3.0	0.4	UPS120E3CT-ND	.37	3.35	27.90	UPS120E3TR-ND	3,000	232.50/M
		20	0.595	2.0	0.01	UPS120EE3CT-ND	.37	3.35	27.90	UPS120EE3TR-ND	3,000	232.50/M
		40	0.75	3.0	0.4	UPS140E3CT-ND	.37	3.35	27.90	UPS140E3TR-ND	3,000	232.50/M
		40	0.45	1.0	0.4	UPS140CT-ND	5.70	47.50	380.00	UPS140TR-ND	3,000	2137.50/M
3B	1.0	60	0.06	1.0	0.1	UPS160E3CT-ND	1.16	10.44	87.00	UPS160E3TR-ND	3,000	725.00/M
		20	0.65	3.0	1.0	UPS5817E3CT-ND	.84	7.56	63.00	UPS5817E3TR-ND	3,000	525.00/M
		40	0.85	3.0	1.0	UPS5819E3CT-ND	.88	7.92	66.00	UPS5819E3TR-ND	3,000	550.00/M
POWERMITE3												
4A	3.0	40	0.50	3.0	0.5	UPS340E3CT-ND	1.44	12.96	108.00	UPS340E3TR-ND	5,000	810.00/M
	3.0	60	0.63	3.5	0.2	UPS360E3CT-ND	1.52	13.68	114.00	UPS360E3TR-ND	5,000	855.00/M
	3.0	100	0.76	3.0	0.2	UPS3100E3CT-ND	1.68	15.12	126.00	UPS3100E3TR-ND	5,000	945.00/M
	5.0	40	0.54	5.0	0.5	UPS540E3CT-ND	1.76	15.84	132.00	UPS540E3TR-ND	5,000	990.00/M
	5.0	60	0.69	5.0	0.2	UPS560E3CT-ND	1.84	16.56	138.00	UPS560E3TR-ND	5,000	1035.00/M
	5.0	100	0.81	5.0	0.2	UPS5100E3CT-ND	1.96	17.64	147.00	UPS5100E3TR-ND	5,000	1102.50/M
	5.0	100	0.81	5.0	0.2	UPS5100HE3CT-ND	2.00	18.00	150.00	UPS5100HE3TR-ND	5,000	1125.00/M
	7.0	60	0.60	7.0	0.1	UPS760E3CT-ND	1.92	17.28	144.00	UPS760E3TR-ND	5,000	1080.00/M
	8.0	35	0.51	8.0	1.4	UPS835LE3CT-ND	1.84	16.56	138.00	UPS835LE3TR-ND	5,000	1035.00/M
	8.0	40	0.37	3.0	5.0	UPS840E3CT-ND	2.02	18.22	151.80	UPS840E3TR-ND	5,000	1138.50/M
	10.0	40	0.51	10.0	0.3	UPS1040E3CT-ND	2.36	21.24	177.00	UPS1040E3TR-ND	5,000	1327.50/M
4B	2 x 5.0	40	0.48	5.0	0.15	UPS1040CTE3CT-ND	3.80	34.20	285.00	UPS1040CTE3TR-ND	5,000	2137.50/M
POWERDI5												
5	3.0	200	0.78	3.0	0.01	UPDS3200E3CT-ND	3.00	27.00	225.00	UPDS3200E3TR-ND	5,000	1687.50/M
	5.0	100	0.71	5.0	0.01	UPDS5100HE3CT-ND	3.40	30.60	255.00	UPDS5100HE3TR-ND	5,000	1912.50/M

Ultra Fast Rectifiers

POWERMITE®

Fig. 1

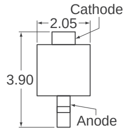

Fig. 2

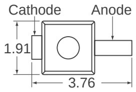

Fig.	V_R (V)	I_F (A)	I_{FSM} (A)	P_d (W)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel	
						1	10	100		Size	Pricing
1	600	2	20	2.5	UPR60E3CT-ND	2.08	18.72	156.00	UPR60E3TR-ND	3,000	1300.00/M
2	50	2.5	25	—	UPR5E3CT-ND	1.32	11.88	99.00	UPR5E3TR-ND	3,000	825.00/M
	100	2.5	25	—	UPR10E3CT-ND	1.44	12.96	108.00	UPR10E3TR-ND	3,000	900.00/M
	150	2.5	25	—	UPR15E3CT-ND	1.56	14.04	117.00	UPR15E3TR-ND	3,000	975.00/M

Microsemi Power Diodes

DO-4

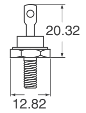

DO-5

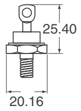

DO-214AB

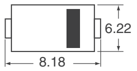

DO-214BA

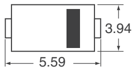

Half Pak

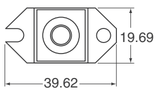

MD3CC

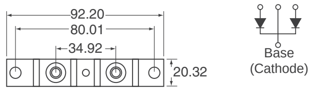

SOT-227

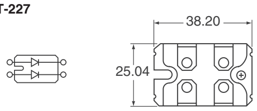

TO-220AB

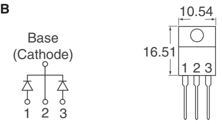

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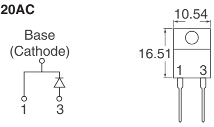

TO-247

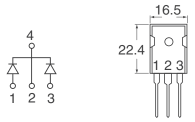

Working Peak Reverse Voltage	Avg. Forward Current IF (AV)	Max. Surge Current IFSM	Package	Digi-Key Part No.	Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Microsemi Part No.
50	30A	600A	DO-4	SBR3050-ND	17.72	159.48	1329.00	—	—	—	SBR3050
35	30A	600A		SD41-ND	16.20	145.80	1215.00	—	—	—	SD41
45	60A	1000A	DO-5	SBR6045-ND	20.84	187.56	1563.00	—	—	—	SBR6045
50	80A	1200A		SBR8050-ND	19.88	178.92	1491.00	—	—	—	SBR8050
15	80A	1200A		SBR8215-ND	20.92	188.28	1569.00	—	—	—	SBR8215
45	3A	150A	DO-214AB	LSM345JCT-ND	4.13	27.50	220.00	LSM345JTR-ND	3,000	1375.00/M	LSM345J
45	5A	250A		LSM545JCT-ND	5.03	33.50	268.00	LSM545JTR-ND	3,000	1675.00/M	LSM545J
45	8A	350A		LSM845JCT-ND	5.78	38.50	308.00	LSM845JTR-ND	2,500	1925.00/M	LSM845J
15	1A	50A	DO-214BA	LSM115JCT-ND	1.50	10.00	80.00	LSM115JTR-ND	3,000	500.00/M	LSM115J
15	240A	3500A	Half Pak	HS24515-ND	51.32	461.88	3849.00	—	—	—	HS24515
50	300A	2000A	MD3CC	CPT30050-ND	64.28	578.52	4821.00	—	—	—	CPT30050
100	600A	6000A		CPT600100-ND	104.52	940.68	7839.00	—	—	—	CPT600100
45	200A	1600A	SOT-227	SPB10045-ND	44.44	399.96	3333.00	—	—	—	SPB10045
100	320A	2500A		SPB160100-ND	60.32	542.88	4524.00	—	—	—	SPB160100
150	20A	225A	TO-220AB	FST20150-ND	3.60	32.40	270.00	—	—	—	FST20150
180	30A	250A		FST31180-ND	8.04	72.36	603.00	—	—	—	FST31180
45	16A	300A	TO-220AC	MS1645-ND	3.20	28.80	240.00	—	—	—	MS1645
100	30A	350A	TO-247	FST30100-ND	6.24	56.16	468.00	—	—	—	FST30100
100	50A	400A		FST50100-ND	9.80	88.20	735.00	—	—	—	FST50100

ROHM Switching Diodes

DO-34

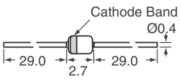

DO-35

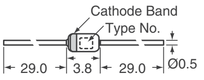

SOD-106

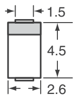

SOD-123

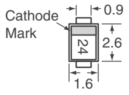

SOD-323

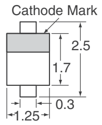

SOD-523

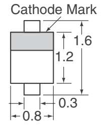

SOT-23

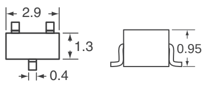

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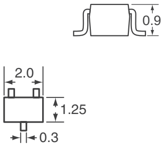

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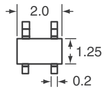

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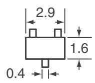

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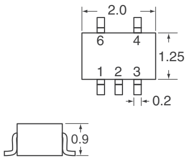

SOT-416

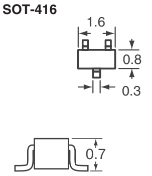

SOT-457

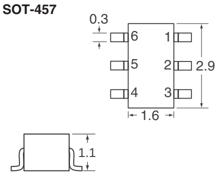

VMD2 ***NEW!***

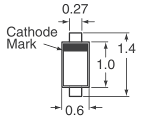

VMD3 ***NEW!***

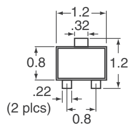

LL-34

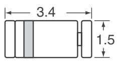

SC-74A

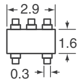

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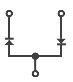

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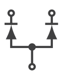

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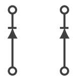

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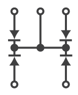

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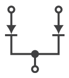

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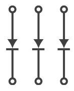

Package	Circuits	VRM (V)	VR (V)	IFM (mA)	IO (mA)	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel Size	Pricing*	Rohm Part No.
DO-34	—	90	80	400	130	1SS133T-77CT-ND†	.24	3.20	7.20	5,000	19.00/M	1SS133T-77
DO-35	—	100	75	450	150	1N4148T-73CT-ND	.24	3.20	7.20	5,000	19.00/M	1N4148T-73
SOD-106	—	400	—	30A	1.0A	1SR154-400TE25CT-ND	.34	5.81	16.12	1,500	71.00/M	1SR154-400TE25
	—	600	—	30A	1.0A	1SR154-600TE25CT-ND	.49	9.06	25.52	1,500	116.00/M	1ST154-600TE25
SOD-123	—	—	400	25A	0.7A	RR264M-400CT-ND	.44	7.50	20.80	3,000	80.00/M	RR264M-400
SOD-323	—	90	80	225	100	1SS355TE-17CT-ND	.26	3.75	9.75	3,000	35.00/M	1SS355TE-17
	—	40	35	225	100	1SS380TE-17CT-ND	.43	6.25	16.25	3,000	59.00/M	1SS380TE-17
	—	—	50	50	—	RN731VTE-17CT-ND	.41	7.50	21.12	3,000	86.00/M	RN731VTE-17
SOD-523	—	90	80	225	100	1SS400TE61CT-ND	.34	5.00	13.00	3,000	47.00/M	1SS400TE61
SOT-23	B	85	70	450	—	BAW56T116CT-ND	.43	6.25	16.25	3,000	59.00/M	BAW56T116

* For Tape and Reel part number change CT-ND to TR-ND. † For Tape and Box part number, change CT-ND to TB-ND.

(Continued)

ROHM Switching Diodes *(Cont.)*

Package	Circuits	VRM (V)	VR (V)	IFM (mA)	IO (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel		Rohm Part No.
							1	25	100	Size	Pricing*	
SOT-323	E	80	80	300	100	DAN202UT106CT-ND	.44	6.50	16.90	3,000	61.00/M	DAN202UT106
	B	80	80	300	100	DAP202UT106CT-ND	.41	6.00	15.60	3,000	56.00/M	DAP202UT106
	E	—	35	—	—	DAN235UT106CT-ND	.43	7.31	20.28	3,000	78.00/M	DAN235UT106
SOT-343	C	80	80	300	100	DA227TLCT-ND	.40	7.75	22.32	3,000	105.00/M	DA227TL
SOT-346	E	80	80	300	100	DAN202KT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DAN202KT146
	B	80	80	300	100	DAP202KT146CT-ND	.36	5.25	13.65	3,000	49.00/M	DAP202KT146
	A	80	80	300	100	DAN217T146CT-ND	.44	6.50	16.90	3,000	61.00/M	DAN217T146
	A	20	20	200	100	DA204KT146CT-ND	.49	7.25	18.85	3,000	68.00/M	DA204KT146
SOT-353	D	80	80	80	25	UMN1NCT-ND	.46	8.88	25.56	3,000	121.00/M	UMN1N
SOT-416	E	80	80	300	100	DAN222TLCT-ND	.49	7.25	18.85	3,000	68.00/M	DAN222TL
	B	80	80	300	100	DAP222TLCT-ND	.37	5.50	14.30	3,000	52.00/M	DAP222TL
	A	20	20	200	100	DA221TLCT-ND	.34	5.81	16.12	3,000	62.00/M	DA221TL
SOT-457	F	80	80	300	100	IMN10T108CT-ND	.41	7.88	22.68	3,000	107.00/M	IMN10T108
VMD2	—	90	80	225	100	1SS400GT2RCT-ND ***NEW!***	.46	6.75	17.55	8,000	54.00/M	1SS400GT2R
VMD3	A	20	20	200	100	DA221MT2LCT-ND ***NEW!***	.44	7.50	20.80	8,000	72.00/M	DA221MT2L
	E	80	80	300	100	DAN222MT2LCT-ND ***NEW!***	.44	7.50	20.80	8,000	72.00/M	DAN222MT2L
	B	80	80	300	100	DAP222MT2LCT-ND ***NEW!***	.49	7.25	18.85	8,000	58.00/M	DAP222MT2L
LL-34	—	250	220	625	200	RLS245TE-11CT-ND	.29	4.25	11.05	2,500	40.00/M	RLS245TE-11
	—	100	75	450	150	RLS4148TE-11CT-ND	.36	4.80	10.80	2,500	32.00/M	RLS4148TE-11
	—	100	75	450	150	RLS4448TE-11CT-ND	.34	5.00	13.00	2,500	47.00/M	RLS4448TE-11
	—	50	50	600	200	RLS4150TE-11CT-ND	.36	5.25	13.65	2,500	49.00/M	RLS4150TE-11
SC-74A	D	80	80	80	25	FMN1T148CT-ND	.44	8.50	24.48	3,000	116.00/M	RMN1T148

* For Tape and Reel part number, change CT-ND to TR-ND.

Zener Diodes

Specifications:

UDZ Series; 200 mW
EDZ Series; 150 mW

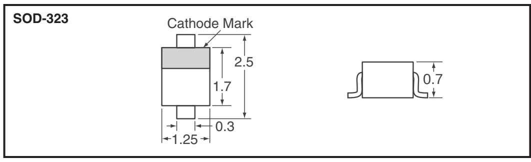

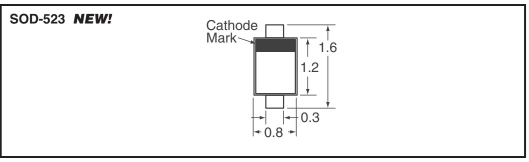

Package	Zener Voltage		Resistance Ω		Reverse Current IR (µA)		Digi-Key Part No.	Cut Tape Pricing			Tape and Reel		Rohm Part No.
	Min.	Max.	Max.	@ Iz (mA)	Max.	VR (V)		1	25	100	Size	Pricing*	
SOD-323	3.600	3.845	100	5.0	10.0	1.0	UDZSTE-173.6BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-173.6B
	3.890	4.160	100	5.0	5.0	1.0	UDZSTE-173.9BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-173.9B
	4.980	5.200	80	5.0	2.0	1.5	UDZSTE-175.1BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-175.1B
	5.490	5.730	60	5.0	1.0	2.5	UDZSTE-175.6BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-175.6B
	6.060	6.330	60	5.0	1.0	3.0	UDZSTE-176.2BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-176.2B
	6.650	6.930	40	5.0	0.5	3.5	UDZSTE-176.8BCT-ND	.41	6.00	15.60	3,000	56.00/M	UDZSTE-176.8B
	7.280	7.600	30	5.0	0.5	4.0	UDZSTE-177.5BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-177.5B
	8.850	9.230	30	5.0	0.5	6.0	UDZSTE-179.1BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-179.1B
	9.770	10.210	30	5.0	0.1	7.0	UDZSTE-1710BCT-ND	.43	6.25	16.25	3,000	59.00/M	UDZSTE-1710B
	11.740	12.240	30	5.0	0.1	9.0	UDZSTE-1712BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-1712B
	14.340	14.980	42	5.0	0.1	11.0	UDZSTE-1715BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-1715B
	17.560	18.350	65	5.0	0.1	13.0	UDZSTE-1718BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-1718B
	21.540	22.470	100	5.0	0.1	17.0	UDZSTE-1722BCT-ND	.49	7.25	18.85	3,000	68.00/M	UDZSTE-1722B
SOD-523	3.600	3.845	100	5.0	10.0	1.0	EDZTE613.6BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE613.6B
	3.890	4.160	100	5.0	5.0	1.0	EDZTE613.9BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE613.9B
	4.170	4.430	100	5.0	5.0	1.0	EDZTE614.3BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE614.3B
	4.550	4.750	100	5.0	2.0	1.0	EDZTE614.7BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE614.7B
	6.650	6.930	40	5.0	0.5	3.5	EDZTE616.8BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE616.8B
	7.280	7.600	30	5.0	0.5	4.0	EDZTE617.5BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE617.5B
	8.020	8.360	30	5.0	0.5	5.0	EDZTE618.2BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE618.2B
	8.850	9.230	30	5.0	0.5	6.0	EDZTE619.1BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE619.1B
	9.770	10.210	30	5.0	0.1	7.0	EDZTE6110BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6110B
	10.760	11.220	30	5.0	0.1	8.0	EDZTE6111BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6111B
	11.740	12.240	30	5.0	0.1	9.0	EDZTE6112BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6112B
	12.910	13.490	37	5.0	0.1	10.0	EDZTE6113BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6113B
	14.340	14.980	42	5.0	0.1	11.0	EDZTE6115BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6115B
	15.850	16.510	50	5.0	0.1	12.0	EDZTE6116BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6116B
	17.560	18.350	65	5.0	0.1	13.0	EDZTE6118BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6118B
	19.520	20.390	85	5.0	0.1	15.0	EDZTE6120BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6120B
	21.540	22.470	100	5.0	0.1	17.0	EDZTE6122BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6122B
	23.720	24.780	120	5.0	0.1	19.0	EDZTE6124BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6124B
	26.190	27.530	150	2.0	0.1	21.0	EDZTE6127BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6127B
	29.190	30.690	200	2.0	0.1	23.0	EDZTE6130BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6130B
	32.150	33.790	250	2.0	0.1	25.0	EDZTE6133BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6133B
	35.070	36.870	300	2.0	0.1	27.0	EDZTE6136BCT-ND ***NEW!***	.38	7.03	19.80	3,000	81.00/M	EDZTE6136B

* For Tape and Reel part number, change CT-ND to TR-ND.

Zener Diode Array — SOT-353

Voltage		Resistance	Reverse	Digi-Key	Cut Tape Pricing			Tape and Reel*		Rohm
Min.	Max.	Max.	Current	Part No.	1	25	100	Size	Pricing	Part No.
6.47	7.14	40Ω	0.5µA	UMZ6.8ENCT-ND	.46	8.44	23.76	3,000	97.00/M	UMZ6.8EN

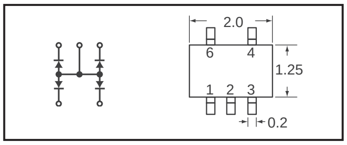

* For Tape and Reel part number, change CT-ND to TR-ND.

ROHM

Schottky Barrier Diodes

SC-74A

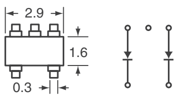

SOD-106

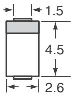

SOD-123

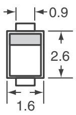

SOD-323

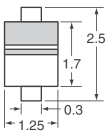

SOD-523

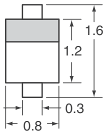

SOT-323

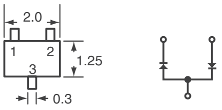

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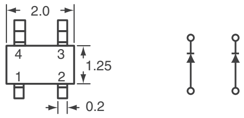

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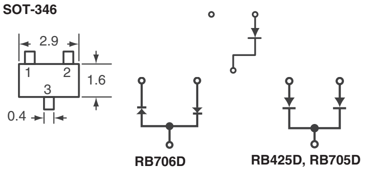

SOT-363 ***NEW!***

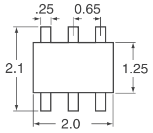

SOT-457

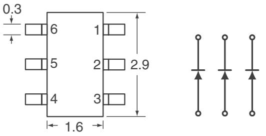

SOT-416

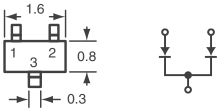

PMDT ***NEW!***

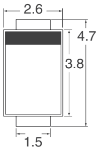

TUMD2 ***NEW!***

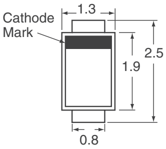

VMD2 ***NEW!***

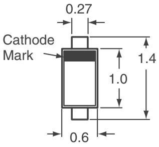

VMD3 ***NEW!***

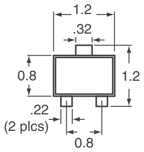

Package	IO (A)	VR (V)	IFSM (A)	VF (V) Max.	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Tape and Reel Size	Pricing*	Rohm Part No.
SC-74A	0.1	40	1	0.34	RB471ET148CT-ND	.50	9.63	27.72	3,000	131.00/M	RB471ET148
SOD-106	3.0	40	70	0.55	RB050L-40TE25CT-ND	.93	18.54	55.62	1,500	319.00/M	RB050L-40TE25
	3.0	20	70	0.45	RB051L-40TE25CT-ND	.61	12.10	36.30	1,500	194.00/M	RB051L-40TE25
	5	20	70	0.45	RB081L-20TE25CT-ND	1.04	20.79	62.37	1,500	358.00/M	RB081L-20TE25
	1	40	70	0.55	RB160L-40TE25CT-ND	.42	7.66	21.56	1,500	98.00/M	RB160L-40TE25
	1	20	70	0.40	RB161L-40TE25CT-ND	.42	8.13	23.40	1,500	117.00/M	RB161L-40TE25
SOD-123	1	20	30	0.35	RB161M-20CT-ND ***NEW!***	.52	10.00	28.80	3,000	136.00/M	RB161M-20TR
	1.5	30	30	0.49	RB070M-30CT-ND ***NEW!***	.50	10.00	30.00	3,000	150.00/M	RB070M-30TR
	1	30	30	0.48	RB160M-30CT-ND	.44	8.13	22.88	3,000	94.00/M	RB160M-30TR
	1	40	30	0.51	RB160M-40CT-ND ***NEW!***	.42	8.13	23.40	3,000	111.00/M	RB160M-40TR
	1	60	30	0.55	RB160M-60CT-ND ***NEW!***	.46	8.75	25.20	3,000	119.00/M	RB160M-60TR
SOD-323	0.1	40	1	0.45	RB500V-40TE-17CT-ND	.57	11.00	31.68	3,000	150.00/M	RB500V-40TE
	0.1	40	1	0.34	RB501V-40TE-17CT-ND	.50	9.22	25.96	3,000	106.00/M	RB501V-40TE
	0.03	30	2	0.37	RB751V-40TE-17CT-ND	.40	7.63	21.96	3,000	104.00/M	RB751V-40TE
SOD-523	0.03	30	2	0.37	RB751S-40TE61CT-ND	.44	8.13	22.88	3,000	94.00/M	RB751S-40TE61
	0.2	30	1	0.60	RB520S-30TE61CT-ND	.38	7.03	19.80	3,000	81.00/M	RB520S-30TE61
	0.2	30	1	0.50	RB521S-30TE61CT-ND	.38	7.03	19.80	3,000	81.00/M	RB521S-30TE61
	0.2	40	1	0.55	RB520S-40TE61CT-ND ***NEW!***	.46	8.44	23.76	3,000	97.00/M	RB520S-40TE61
SOT-323	0.03	40	.2	—	RB706F-40T106CT-ND	.50	10.00	30.00	3,000	150.00/M	RB706F-40T
	0.03	40	.2	0.37	RB715FT106CT-ND	.42	7.13	19.76	3,000	76.00/M	RB715FT106
	0.03	40	.2	0.37	RB717FT106CT-ND	.46	8.75	25.20	3,000	119.00/M	RB717FT106
SOT-343	0.1	40	1	—	RB480KTLCT-ND	.53	10.13	29.16	3,000	138.00/M	RB480KTL
SOT-346	0.03	40	.2	—	RB706D-40T146CT-ND	.48	9.25	26.64	3,000	126.00/M	RB706D-40T
	0.5	40	3	0.55	RB400DT146CT-ND	.58	11.60	34.80	3,000	174.00/M	RB400DT146
	0.5	20	3	0.3	RB411DT146CT-ND	.49	9.06	25.52	3,000	104.00/M	RB411DT146
	0.1	40	1	0.45	RB420DT146CT-ND	.46	8.44	23.76	3,000	97.00/M	RB420DT146
	0.1	40	1	0.34	RB425DT146CT-ND	.44	8.38	24.12	3,000	114.00/M	RB425DT146
	—	20	3	0.45	RB491DT146CT-ND	.46	8.75	25.20	3,000	119.00/M	RB491DT146
	0.03	40	.2	0.37	RB705DT146CT-ND	.46	8.88	25.56	3,000	121.00/M	RB705DT146
SOT-363	0.1	30	1	0.53	RB530XNCT-ND ***NEW!***	.55	11.00	33.00	3,000	165.00/M	RB530XNTR
	0.1	30	1	0.43	RB531XNCT-ND ***NEW!***	.55	11.00	33.00	3,000	165.00/M	RB531XNTR
SOT-457	0.03	40	.2	0.37	RB731UT108CT-ND	.47	9.00	25.92	3,000	122.00/M	RB731UT108
SOT-416	0.03	40	.2	0.37	RB715WTLCT-ND	.50	9.63	27.72	3,000	131.00/M	RB715WTL
PMDT	3.0	30	70	0.45	RB050LA-30CT-ND ***NEW!***	.93	18.54	55.62	3,000	294.00/M	RB050LA-30TR
	3.0	40	70	0.55	RB050LA-40CT-ND ***NEW!***	.93	18.54	55.62	3,000	294.00/M	RB050LA-40TR
	3.0	30	70	0.42	RSX301LA-30CT-ND ***NEW!***	.75	15.03	45.09	3,000	238.00/M	RSX301LA-30TR
TUMD2	1	20	5	0.42	RB161VA-20CT-ND ***NEW!***	.52	10.00	28.80	3,000	136.00/M	RB161VA-20TR
	0.5	40	3	0.55	RB400VA-50CT-ND ***NEW!***	.58	11.60	34.80	3,000	165.00/M	RB400VA-50TR
	0.5	30	5	0.39	RSX051VA-30CT-ND ***NEW!***	.46	8.88	25.56	3,000	121.00/M	RSX051VA-30TR
	0.7	30	5	0.42	RSX071VA-30CT-ND ***NEW!***	.46	8.88	25.56	3,000	121.00/M	RSX071VA-30TR
VMD2	.03	30	.2	0.37	RB751G-40T2RCT-ND ***NEW!***	.52	10.00	28.80	8,000	128.00/M	RB751G-40T2R
VMD3	.03	30	.2	0.37	RB715ZT2LCT-ND ***NEW!***	.57	10.88	31.32	8,000	139.00/M	RB715ZT2L

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount MOSFETS

VDSS	RDS (On) (Ω)	ID Cont. (A)	PD (Watts)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,500	5,000
Single P-Channel Enhancement Mode FETs										
30	0.24	3.4	2.5	DI9400CT-ND	4.50	3.75	3.00	—	—	—
20	0.12	4.3	2.5	DI9405CT-ND	4.68	3.90	3.12	DI9405TR-ND	1560.00/M	1365.00/M
20	0.12	5.3	2.5	DI9430CT-ND	4.92	4.10	3.28	DI9430TR-ND	1640.00/M	1435.00/M
30	0.064	5.3	2.5	DI9435CT-ND	4.98	4.15	3.32	DI9435TR-ND	1660.00/M	1453.00/M
Dual N and P-Channel Enhancement Mode FETs										
20, 20	0.11, 0.35	3, 2.5	1.6	DI9942CT-ND	5.40	4.50	3.60	DI9942TR-ND	1800.00/M	1575.00/M
30, 30	0.11, 0.24	3.7, 2.9	2	DI9952CT-ND	5.58	4.65	3.72	—	—	—
Dual N-Channel Enhancement Mode FETs										
60	0.17	3.5	1.6	DI9945CT-ND	5.40	4.50	3.60	DI9945TR-ND	1800.00/M	1575.00/M
30	0.11	3.7	2	DI9956CT-ND	5.22	4.35	3.48	DI9956TR-ND	1740.00/M	1523.00/M

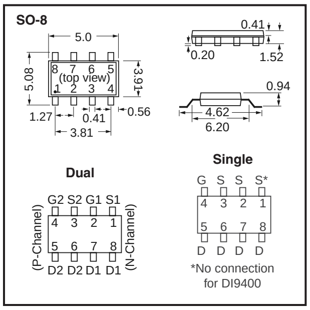

Fast Recovery Rectifiers

Fig. 1 — DO-41

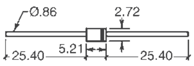

Fig. 2 — MELF (DL-41)

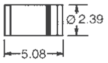

Fig. 3 — DO-201AD

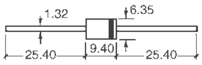

Fig. 4 — R-6

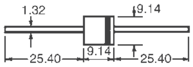

Fig. 5 — TO-220A

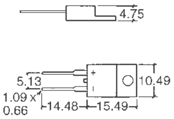

Fig. 6 — TO-220

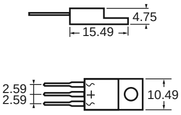

Fig. 7 — SMA

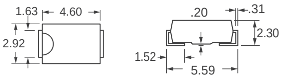

Fig. 8 — SMB

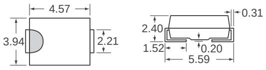

Fig. 9 — SMC

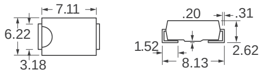

Fig.	Pkg.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (µA)	Max. Forward Voltage Peak (V)	Max. Reverse-Recovery Time (nS)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	DO-41	1.0	50	50	5.0	1.2	200	1N4933DICT-ND	.39	.23	.15	1N4933DITR-ND	5,000	46.00/M
			100	50	5.0	1.2	200	1N4934DICT-ND	.39	.23	.15	1N4934DITR-ND	5,000	46.00/M
			200	50	5.0	1.2	200	1N4935DICT-ND	.39	.23	.15	1N4935DITR-ND	5,000	46.00/M
			400	50	5.0	1.2	200	1N4936DICT-ND	.39	.23	.15	1N4936DITR-ND	5,000	46.00/M
			600	50	5.0	1.2	200	1N4937DICT-ND	.39	.23	.15	1N4937DITR-ND	5,000	46.00/M
			800	50	5.0	1.3	500	FR106DICT-ND	.44	.30	.21	FR106DITR-ND	5,000	72.00/M
			800	50	5.0	1.3	500	FR106-T-FDICT-ND◊	.44	.30	.21	FR106-T-FDITR-ND◊	5,000	72.00/M
			1000	50	5.0	1.3	500	FR107DICT-ND	.44	.30	.21	FR107DITR-ND	5,000	72.00/M
			1000	50	5.0	1.3	500	FR107-T-FDICT-ND◊	.44	.30	.21	FR107-T-FDITR-ND◊	5,000	72.00/M
2	MELF	1.0	50	30	5.0	1.2	200	DL4933DICT-ND	—	.33	.24	DL4933DITR-ND	5,000	104.00/M
			50	30	5.0	1.2	200	DL4933-FDICT-ND◊	.42	.33	.24	DL4933-FDITR-ND◊	5,000	104.00/M
			100	30	5.0	1.2	200	DL4934-FDICT-ND◊	.42	.33	.24	DL4934-FDITR-ND◊	5,000	104.00/M
			200	30	5.0	1.2	200	DL4935DICT-ND	—	.33	.24	DL4935DITR-ND	5,000	104.00/M
			200	30	5.0	1.2	200	DL4935-FDICT-ND◊	.42	.33	.24	DL4935-FDITR-ND◊	5,000	104.00/M
			400	30	5.0	1.2	200	DL4936DICT-ND	—	.33	.24	DL4936DITR-ND	5,000	104.00/M
			400	30	5.0	1.2	200	DL4936-FDICT-ND◊	.42	.33	.24	DL4936-FDITR-ND◊	5,000	104.00/M
			600	30	5.0	1.2	200	DL4937DICT-ND	.42	.33	.24	DL4937DITR-ND	5,000	104.00/M
			600	30	5.0	1.2	200	DL4937-FDICT-ND◊	.42	.33	.24	DL4937-FDITR-ND◊	5,000	104.00/M
3	DO-201AD	3.0	50	200	10.0	1.3	150	FR301DICT-ND	.41	.32	.23	FR301DITR-ND	1,200	113.00/M
			100	200	10.0	1.3	150	FR302DICT-ND	.42	.32	.24	FR302DITR-ND	1,200	115.00/M
			200	200	10.0	1.3	150	FR303DICT-ND	.44	.34	.25	FR303DITR-ND	1,200	121.00/M
			400	200	10.0	1.3	150	FR304DICT-ND	.44	.34	.25	FR304DITR-ND	1,200	121.00/M
			600	200	10.0	1.3	250	FR305DICT-ND	.48	.37	.27	FR305DITR-ND	1,200	133.00/M
			800	200	10.0	1.3	500	FR306DICT-ND	.48	.37	.27	FR306DITR-ND	1,200	133.00/M
			1000	200	10.0	1.3	500	FR307DICT-ND	.57	.44	.32	FR307DITR-ND	1,200	158.00/M
4	R-6	6.0	50	300	10.0	1.3	150	FR601DICT-ND	.64	.52	.39	FR601DITR-ND	500	132.00
			100	300	10.0	1.3	150	FR602DICT-ND	.68	.55	.41	FR602DITR-ND	500	140.50
			200	300	10.0	1.3	150	FR603DICT-ND	.72	.58	.44	FR603DITR-ND	500	148.50
			400	300	10.0	1.3	150	FR604DICT-ND	.76	.61	.46	FR604DITR-ND	500	157.00
			600	300	10.0	1.3	250	FR605DICT-ND	.84	.68	.51	FR605DITR-ND	500	173.50
			800	300	10.0	1.3	500	FR606DICT-ND	.92	.74	.56	FR606DITR-ND	500	190.00
5	TO-220A	8.0	50	300	10.0	1.3	150	FR801-ND	1.19	.94	.72	—	—	—
			100	300	10.0	1.3	150	FR802-ND	1.25	.99	.76	—	—	—

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(Continued)

Fast Recovery Rectifiers *(Cont.)*

Fig.	Pkg.	Max. Avg. Rectified Current (A)	Max. Peak Reverse Voltage (V)	Max. Surge Current 8.3ms (A)	Max. Reverse Current @25°C (µA)	Max. Forward Voltage Peak (V)	Max. Reverse-Recovery Time (nS)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
									1	10	100		Size	Pricing
5	TO-220A	8.0	200	300	10.0	1.3	150	FR803-ND	1.32	1.04	.80	—	—	—
			400	300	10.0	1.3	150	FR804-ND	1.45	1.15	.88	—	—	—
			600	300	10.0	1.3	250	FR805-ND	1.55	1.23	.94	—	—	—
6	TO-220	16	150	125	10.0	.975	35	SF163DI-ND	2.08	1.62	1.28	—	—	—
			200	125	10.0	.975	35	SF164DI-ND	2.13	1.66	1.32	—	—	—
7	SMA	1.0	50	30	5.0	1.3	150	RS1A-FDICT-ND◊	.52	.40	.29	RS1A-FDITR-ND◊	5,000	128.00/M
			100	30	5.0	1.3	150	RS1B-FDICT-ND◊	.55	.43	.31	RS1B-FDITR-ND◊	5,000	136.00/M
			200	30	5.0	1.3	150	RS1DDICT-ND	.45	.36	.27	RS1DDITR-ND	5,000	126.00/M
			200	30	5.0	1.3	150	RS1D-FDICT-ND◊	.45	.36	.27	RS1D-FDITR-ND◊	5,000	126.00/M
			400	30	5.0	1.3	150	RS1G-FDICT-ND◊	.48	.38	.29	RS1G-FDITR-ND◊	5,000	133.00/M
			600	30	5.0	1.3	250	RS1J-FDICT-ND◊	.50	.40	.30	RS1J-FDITR-ND◊	5,000	140.00/M
			800	30	5.0	1.3	500	RS1K-FDICT-ND◊	.53	.42	.32	RS1K-FDITR-ND◊	5,000	147.00/M
			1000	30	5.0	1.3	500	RS1M-FDICT-ND◊	.55	.44	.33	RS1M-FDITR-ND◊	5,000	154.00/M
		1.5	50	50	5.0	1.3	150	RS2AADICT-ND	.50	.40	.30	RS2AADITR-ND	5,000	140.00/M
			50	50	5.0	1.3	150	RS2AA-FDICT-ND◊	.50	.40	.30	RS2AA-FDITR-ND◊	5,000	140.00/M
			100	50	5.0	1.3	150	RS2BADICT-ND	.53	.42	.32	RS2BADITR-ND	5,000	147.00/M
			100	50	5.0	1.3	150	RS2BA-FDICT-ND◊	.53	.42	.32	RS2BA-FDITR-ND◊	5,000	147.00/M
			200	50	5.0	1.3	150	RS2DA-FDICT-ND◊	.55	.44	.33	RS2DA-FDITR-ND◊	5,000	154.00/M
			400	50	5.0	1.3	150	RS2GADICT-ND	.58	.46	.35	RS2GADITR-ND	5,000	161.00/M
			400	50	5.0	1.3	150	RS2GA-FDICT-ND◊	.58	.46	.35	RS2GA-FDITR-ND◊	5,000	161.00/M
			600	50	5.0	1.3	250	RS2JA-FDICT-ND◊	.60	.48	.36	RS2JA-FDITR-ND◊	5,000	168.00/M
			800	50	5.0	1.3	500	RS2KA-FDICT-ND◊	.65	.52	.39	RS2KA-FDITR-ND◊	5,000	182.00/M
			1000	50	5.0	1.3	500	RS2MA-FDICT-ND◊	.70	.56	.42	RS2MA-FDITR-ND◊	5,000	196.00/M
8	SMB	1.0	50	30	5.0	1.0	150	FR1A-FDICT-ND◊	.53	.41	.30	FR1A-FDITR-ND◊	3,000	138.00/M
			50	30	5.0	1.3	150	RS1AB-FDICT-ND◊	.52	.40	.29	RS1AB-FDITR-ND◊	3,000	136.00/M
			100	30	5.0	1.0	150	FR1B-FDICT-ND◊	.45	.36	.27	FR1B-FDITR-ND◊	3,000	135.00/M
			100	30	5.0	1.3	150	RS1BB-FDICT-ND◊	.55	.43	.31	RS1BB-FDITR-ND◊	3,000	145.00/M
			200	30	5.0	1.0	150	FR1D-FDICT-ND◊	.48	.38	.29	FR1D-FDITR-ND◊	3,000	143.00/M
			200	30	5.0	1.3	150	RS1DBDICT-ND	.45	.36	.27	RS1DBDITR-ND	3,000	135.00/M
			200	30	5.0	1.3	150	RS1DB-FDICT-ND◊	.45	.36	.27	RS1DB-FDITR-ND◊	3,000	135.00/M
			400	30	5.0	1.0	150	FR1G-FDICT-ND◊	.50	.40	.30	FR1G-FDITR-ND◊	3,000	150.00/M
			400	30	5.0	1.3	150	RS1GB-FDICT-ND◊	.48	.38	.29	RS1GB-FDITR-ND◊	3,000	133.00/M
			600	30	5.0	1.0	250	FR1J-FDICT-ND◊	.52	.42	.32	FR1J-FDITR-ND◊	3,000	156.00/M
			600	30	5.0	1.3	250	RS1JB-FDICT-ND◊	.50	.40	.30	RS1JB-FDITR-ND◊	3,000	150.00/M
			800	30	5.0	1.0	500	FR1KDICT-ND	.54	.44	.33	FR1KDITR-ND	3,000	162.00/M
			800	30	5.0	1.0	500	FR1K-FDICT-ND◊	.54	.44	.33	FR1K-FDITR-ND◊	3,000	162.00/M
			800	30	5.0	1.3	500	RS1KB-FDICT-ND◊	.53	.42	.32	RS1KB-FDITR-ND◊	3,000	158.00/M
			1000	30	5.0	1.3	500	RS1MB-FDICT-ND◊	.55	.44	.33	RS1MB-FDITR-ND◊	3,000	165.00/M
			1000	30	5.0	1.3	500	FR1M-FDICT-ND◊	.57	.46	.34	FR1M-FDITR-ND◊	3,000	170.00/M
		1.5	50	50	5.0	1.3	150	RS2ADICT-ND	.50	.40	.30	RS2ADITR-ND	3,000	150.00/M
			50	50	5.0	1.3	150	RS2A-FDICT-ND◊	.50	.40	.30	RS2A-FDITR-ND◊	3,000	150.00/M
			100	50	5.0	1.3	150	RS2B-FDICT-ND◊	.53	.42	.32	RS2B-FDITR-ND◊	3,000	158.00/M
			200	50	5.0	1.3	150	RS2D-FDICT-ND◊	.55	.44	.33	RS2D-FDITR-ND◊	3,000	165.00/M
			400	50	5.0	1.3	150	RS2G-FDICT-ND◊	.58	.46	.35	RS2G-FDITR-ND◊	3,000	173.00/M
			600	50	5.0	1.3	250	RS2J-FDICT-ND◊	.60	.48	.36	RS2J-FDITR-ND◊	3,000	180.00/M
			800	50	5.0	1.3	500	RS2K-FDICT-ND◊	.65	.52	.39	RS2K-FDITR-ND◊	3,000	195.00/M
			1000	50	5.0	1.3	500	RS2MDICT-ND	.70	.56	.42	—	—	—
			1000	50	5.0	1.3	500	RS2M-FDICT-ND◊	.70	.56	.42	RS2M-FDITR-ND◊	3,000	210.00/M
		3.0	50	100	5.0	1.3	150	RS3AB-FDICT-ND◊	.95	.76	.57	RS3AB-FDITR-ND◊	3,000	299.00/M
			100	100	5.0	1.3	150	RS3BB-FDICT-ND◊	.99	.80	.60	RS3BB-FDITR-ND◊	3,000	314.00/M
			200	100	5.0	1.3	150	RS3DB-FDICT-ND◊	1.04	.83	.63	RS3DB-FDITR-ND◊	3,000	328.00/M
			400	100	5.0	1.3	150	RS3GB-FDICT-ND◊	1.08	.87	.65	RS3GB-FDITR-ND◊	3,000	342.00/M
			600	100	5.0	1.3	250	RS3JB-FDICT-ND◊	1.01	.88	.68	RS3JB-FDITR-ND◊	3,000	359.00/M
			800	100	5.0	1.3	500	RS3KB-FDICT-ND◊	1.09	.95	.73	RS3KB-FDITR-ND◊	3,000	386.00/M
			1000	100	5.0	1.3	500	RS3MB-FDICT-ND◊	1.13	.98	.75	RS3MB-FDITR-ND◊	3,000	399.00/M
9	SMC	3.0	50	100	5.0	1.3	150	RS3A-FDICT-ND◊	.95	.76	.57	RS3A-FDITR-ND◊	3,000	299.00/M
			100	100	5.0	1.3	150	RS3BDICT-ND	.88	.71	.53	RS3BDITR-ND	3,000	293.00/M
			100	100	5.0	1.3	150	RS3B-FDICT-ND◊	.99	.80	.60	RS3B-FDITR-ND◊	3,000	314.00/M
			200	100	5.0	1.3	150	RS3DDICT-ND	.92	.74	.56	RS3DDITR-ND	3,000	306.00/M
			200	100	5.0	1.3	150	RS3D-FDICT-ND◊	1.04	.83	.63	RS3D-FDITR-ND◊	3,000	328.00/M
			400	100	5.0	1.3	150	RS3GDICT-ND	.96	.77	.58	RS3GDITR-ND	3,000	319.00/M
			400	100	5.0	1.3	150	RS3G-FDICT-ND◊	1.08	.87	.65	RS3G-FDITR-ND◊	3,000	342.00/M
			600	100	5.0	1.3	250	RS3J-FDICT-ND◊	1.01	.88	.68	RS3J-FDITR-ND◊	3,000	359.00/M
			800	100	5.0	1.3	500	RS3KDICT-ND	.96	.76	.58	RS3KDITR-ND	3,000	377.00/M
			800	100	5.0	1.3	500	RS3K-FDICT-ND◊	1.09	.95	.73	RS3K-FDITR-ND◊	3,000	386.00/M
			1000	100	5.0	1.3	500	RS3M-FDICT-ND◊	1.13	.98	.75	RS3M-FDITR-ND◊	3,000	399.00/M

◊ *RoHS Compliant*

ON Semiconductor™

Recovery Power Rectifiers

Package	Working Peak Reverse Voltage VRWM	Average Rectified Forward Current IO (A)	Peak Surge Current IFSM (A)	Max. Instantaneous Forward Voltage Drop VF (V)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 250	Tape & Reel* Size	Tape & Reel* Pricing
SMA	300	1	30	1.1	MRA4003T3OSCT-ND	2.63	18.20	32.81	—	—
	400	1	30	1.1	MRA4004T3GOSCT-ND◊ ***NEW!***	2.67	18.51	33.38	5,000	64.00/M
	800	1	30	1.1	MRA4006T3OSCT-ND	2.63	18.20	32.81	—	—
	1000	1	30	1.1	MRA4007T3GOSCT-ND◊ ***NEW!***	2.67	18.51	33.38	5,000	64.00/M
Case194	100	6	400	0.9	MR751RLOSCT-ND	9.39	72.20	151.62	—	—
	400	6	400	0.9	MR754RLOSCT-ND	9.39	72.20	151.62	—	—
	600	6	400	0.9	MR756RLOSCT-ND	9.39	72.20	151.62	—	—
	1000	6	400	0.9	MR760RLOSCT-ND	9.48	72.93	153.14	800	387.20
Microde	200	25	400	1.18	MR2502OS-ND	6.83	51.25	109.14	—	—
	400	25	400	1.18	MR2504OS-ND	6.83	51.25	109.14	—	—
DO-41	800	1	35	1.75	MUR180EGOS-ND◊ ***NEW!***	4.16	29.92	56.09	—	—
D-PAK	200	6	50	1	MURD620CTT4OSCT-ND	5.88	44.12	93.96	—	—
	200	6	50	1	MURD620CTT4GOSCT-ND◊ ***NEW!***	5.98	44.85	95.51	2,500	237.00/M
	200	3	6	0.95	MURD320T4OSCT-ND	5.88	44.12	93.96	2,500	233.00/M
	200	3	6	0.95	MURD320T4GOSCT-ND◊ ***NEW!***	5.98	44.85	95.51	2,500	237.00/M
D2-PAK	15	25	150	0.45	MBRB2515LT4OSCT-ND	18.96	159.26	331.80	—	—
	15	25	150	0.45	MBRB2515LT4GOSCT-ND◊ ***NEW!***	19.28	161.95	337.40	800	925.60

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Standard Recovery Rectifiers

Package	Working Peak Reverse Voltage VRWM	Average Rectified Forward Current IO (A)	Peak Surge Current IFSM (A)	Max. Instantaneous Forward Voltage Drop VF (V)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 250	Tape & Reel* Size	Tape & Reel* Pricing
DO-41	50	1	30	1.1	1N4001RLGOSCT-ND◊ ***NEW!***	2.27	12.78	21.30	5,000	33.00/M
	100	1	30	1.1	1N4002RLOSCT-ND	2.24	12.60	21.00	5,000	33.00/M
	100	1	30	1.1	1N4002RLGOSCT-ND◊ ***NEW!***	2.27	12.78	21.30	5,000	33.00/M
	200	1	30	1.1	1N4003RLGOSCT-ND◊ ***NEW!***	2.27	12.78	21.30	5,000	33.00/M
	400	1	30	1.1	1N4004RLOSCT-ND	2.24	12.60	21.00	5,000	—
	400	1	30	1.1	1N4004RLGOSCT-ND◊ ***NEW!***	2.27	12.78	21.30	5,000	33.00/M
	800	1	30	1.1	1N4006RLOSCT-ND	2.24	12.60	21.00	5,000	33.00/M
	800	1	30	1.1	1N4006RLGOSCT-ND◊ ***NEW!***	2.27	12.78	21.30	5,000	33.00/M
	1,000	1	30	1.1	1N4007RLGOSCT-ND◊ ***NEW!***	2.27	12.78	21.30	5,000	33.00/M
	50	1	30	1.2	1N4933RLOSCT-ND	2.69	17.49	30.26	5,000	54.00/M
	50	1	30	1.2	1N4933RLGOSCT-ND◊ ***NEW!***	2.73	17.49	30.26	5,000	54.00/M
	100	1	30	1.2	1N4934RLOSCT-ND	2.69	17.49	30.26	5,000	54.00/M
	100	1	30	1.2	1N4934RLGOSCT-ND◊ ***NEW!***	2.73	17.75	30.71	5,000	55.00/M
	200	1	30	1.2	1N4935RLOSCT-ND	2.69	17.49	30.26	—	—
	200	1	30	1.2	1N4935RLGOSCT-ND◊ ***NEW!***	2.73	17.75	30.71	5,000	55.00/M
	400	1	30	1.2	1N4936RLOSCT-ND	2.69	17.49	30.26	—	—
	400	1	30	1.2	1N4936RLGOSCT-ND◊ ***NEW!***	2.73	17.75	30.71	5,000	55.00/M
	600	1	30	1.2	1N4937RLOSCT-ND	2.69	17.49	30.26	5,000	54.00/M
	600	1	30	1.2	1N4937RLGOSCT-ND◊ ***NEW!***	2.73	17.75	30.71	5,000	55.00/M
DO-201AD	50	3	200	1	1N5400RLOSCT-ND	2.98	20.64	37.22	1,200	91.00/M
	50	3	200	1	1N5400RLGOSCT-ND◊ ***NEW!***	3.02	20.96	37.78	1,200	93.00/M
	100	3	200	1	1N5401RLOSCT-ND	2.98	20.64	37.22	1,200	91.00/M
	100	3	200	1	1N5401RLGOSCT-ND◊ ***NEW!***	3.02	20.96	37.78	1,200	93.00/M
	200	3	200	1	1N5402RLOSCT-ND	2.98	20.64	37.22	1,200	91.00/M
	200	3	200	1	1N5402RLGOSCT-ND◊ ***NEW!***	3.02	20.96	37.78	1,200	93.00/M
	400	3	200	1	1N5404RLGOSCT-ND◊ ***NEW!***	3.02	20.96	37.78	1,200	93.00/M
	600	3	200	1	1N5406RLGOSCT-ND◊ ***NEW!***	3.02	20.96	37.78	1,200	93.00/M
	1,000	3	200	1	1N5408RLGOSCT-ND◊ ***NEW!***	3.02	20.96	37.78	1,200	93.00/M
	400	3	100	1.25	MR854OS-ND	2.92	20.55	37.36	—	—
	600	3	100	1.25	MR856RLOSCT-ND	2.92	20.55	37.36	1,200	93.00/M
SMB	400	1.5	50	1.1	MRS1504T3OSCT-ND	3.86	27.76	52.04	2,500	131.00/M
	400	1.5	50	1.1	MRS1504T3GOSCT-ND◊ ***NEW!***	3.93	28.26	52.99	2,500	133.00/M
TO-220AC	600	8.0	100	1.4	MSR860GOS-ND◊ ***NEW!***	11.57	89.00	186.90	—	—
	600	15	100	1.5	MSR1560OS-ND	8.96	66.71	142.95	—	—
	600	15	100	1.5	MSR1560GOS-ND◊ ***NEW!***	12.72	97.88	205.54	—	—

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Ultra Fast Rectifiers

Package	Working Peak Reverse Voltage VRWM	Average Rectified Forward Current IO (A)	Peak Surge Current IFSM (A)	Max. Instantaneous Forward Voltage Drop VF (V)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 250	Tape & Reel* Size	Tape & Reel* Pricing
TO-220AB	100	16	100	0.975	MUR1610CTOS-ND	9.48	72.93	153.14	—	—
	150	16	100	0.975	MUR1615CTOS-ND	9.48	72.93	153.14	—	—
	200	3.0	75	0.975	MUR620CTOS-ND	6.72	50.41	107.35	—	—
	200	16	100	0.975	MUR1620CTOS-ND†	9.10	70.00	147.00	—	—
	200	16	100	0.975	MUR1620CTGOS-ND†◊ ***NEW!***	9.26	71.20	149.52	—	—
	200	16	100	1.2	MUR1620CTROS-ND†	12.51	96.25	202.13	—	—
	200	16	100	1.2	MUR1620CTRGOS-ND†◊ ***NEW!***	13.33	102.53	215.30	—	—
	400	16	100	1.30	MUR1640CTOS-ND	14.41	110.85	232.79	—	—
	600	16	100	1.50	MUR1660CTGOS-ND◊ ***NEW!***	15.42	118.65	249.17	—	—
TO-218AC	200	30	200	1.05	MUR3020PTOS-ND	18.96	159.26	331.80	—	—
	400	30	150	1.25	MUR3040PTOS-ND	23.92	200.91	418.56	—	—
TO-220AC	150	8	16	0.975	MUR815OS-ND	8.34	64.18	134.77	—	—
	200	8	16	0.975	MUR820OS-ND	8.07	62.08	130.36	—	—
	200	8	16	0.975	MUR820GOS-ND◊ ***NEW!***	8.29	63.78	133.93	—	—
	400	15	150	1.25	MUR1540OS-ND	12.89	99.18	208.27	—	—
	600	8	16	0.975	MUR860GOS-ND◊ ***NEW!***	10.03	77.13	161.96	—	—
	600	15	150	1.50	MUR1560OS-ND	12.89	99.18	208.27	—	—
	800	8	100	1.8	MUR880EOS-ND	11.38	87.50	183.75	—	—
	1000	8	100	1.8	MUR8100EOS-ND	11.38	87.50	183.75	—	—
	1000	8	100	1.8	MUR8100EGOS-ND◊ ***NEW!***	11.57	89.00	186.90	—	—
TO-247PSI	200	30	200	1.05	MUR3020WTOS-ND	23.92	200.91	418.56	—	—
	600	30	150	1.7	MUR3060WTOS-ND	27.42	204.17	437.51	—	—
D-PAK	200	6	50	1.15	MSRD620CTT4OSCT-ND	14.00	117.60	245.00	2,500	304.00/M
	200	6	50	1.15	MSRD620CTT4GOSCT-ND◊ ***NEW!***	7.69	57.67	122.82	2,500	304.00/M
D2PAK	200	16	100	1.2	MURB1620CTRT4GOSCT-ND◊ ***NEW!***	14.27	109.75	230.48	800	583.20
	200	16	100	0.975	MURB1620CTT4OSCT-ND	13.47	103.65	217.67	800	460.00
	200	16	100	0.975	MURB1620CTT4GOSCT-ND◊ ***NEW!***	13.47	103.65	217.67	800	550.40
	600	8	100	1.5	MURB1660CTT4OSCT-ND	29.85	222.25	476.25	800	1422.40
	600	8	100	1.5	MURB1660CTT4GOSCT-ND◊ ***NEW!***	12.76	107.14	223.21	800	612.00
	400	8	100	2.2	MURHB840CTOS-ND	15.17	116.68	245.02	—	—
	600	4	100	2.8	MURHB860CTT4OSCT-ND	32.90	245.00	525.00	—	—
	600	4	100	2.8	MURHB860CTT4GOSCT-ND◊ ***NEW!***	15.42	118.65	249.17	800	630.40

* For Tape and Reel part number, change CT-ND to TR-ND. † Pinning Reversed ◊ ***RoHS Compliant*** *(Continued)*

SMA

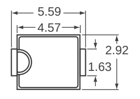

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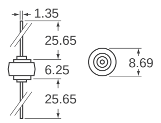

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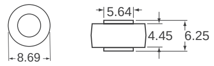

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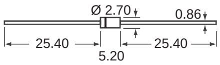

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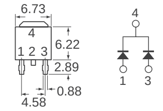

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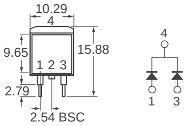

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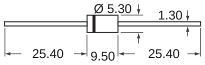

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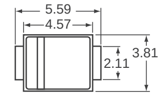

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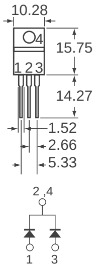

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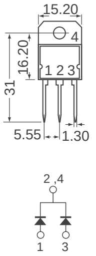

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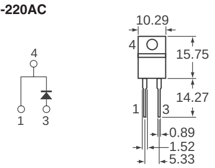

Ultra Fast Rectifiers *(Cont.)*

Package	Working Peak Reverse Voltage VRWM	Average Rectified Forward Current IO (A)	Peak Surge Current IFSM (A)	Max. Instantaneous Forward Voltage Drop VF (V)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 250	Tape & Reel* Size	Tape & Reel* Pricing
SMB	100	2	40	0.875	MURS110T3OSCT-ND	3.22	23.15	43.40	—	—
	200	2	40	0.875	MURS120T3GOSCT-ND◊ ***NEW!***	3.09	22.21	41.65	2,500	105.00/M
	200	2	40	0.95	MURS220T3OSCT-ND	3.18	23.82	47.64	—	—
	200	2	40	0.95	MURS220T3GOSCT-ND◊ ***NEW!***	4.04	29.05	54.47	2,500	137.00/M
SMC	200	4	75	0.89	MURS320T3GOSCT-ND◊ ***NEW!***	4.75	35.61	71.22	2,500	178.00/M
	400	4	75	1.28	MURS340T3OSCT-ND	4.62	34.67	73.83	—	—
	600	4	75	1.28	MURS360T3OSCT-ND	4.62	34.67	73.83	—	—
	600	4	75	1.28	MURS360T3GOSCT-ND◊ ***NEW!***	5.22	39.15	78.30	2,500	196.00/M
SMA	100	2	50	0.875	MURA110T3OSCT-ND	3.33	23.98	44.96	—	—
	100	2	50	0.875	MURA110T3GOSCT-ND◊ ***NEW!***	3.38	24.34	45.63	5,000	108.00/M
	200	1	40	0.875	MURA120T3OSCT-ND	3.33	23.98	44.96	5,000	107.00/M
	400	1	35	1.1	MURA140T3OSCT-ND	3.33	23.98	44.96	5,000	107.00/M
	600	1	30	1.25	MURA160T3OSCT-ND	3.33	23.98	44.96	—	—
	600	1	30	1.25	MURA160T3GOSCT-ND◊ ***NEW!***	3.38	24.34	45.63	5,000	108.00/M
	400	2	35	1.30	MURA240T3OSCT-ND	3.33	23.98	44.96	5,000	107.00/M
	400	2	35	1.30	MURA240T3GOSCT-ND◊ ***NEW!***	3.38	24.34	45.63	5,000	108.00/M
	600	2	30	1.45	MURA260T3GOSCT-ND◊ ***NEW!***	3.38	24.34	45.63	5,000	108.00/M
DO-201AD	150	1	35	0.875	MUR115RLOSCT-ND	2.92	21.02	39.42	5,000	99.00/M
	200	1	35	0.875	MUR120RLOSCT-ND	2.92	21.02	39.42	—	—
	300	1	35	1.25	MUR130OSCT-ND	3.71	26.09	47.44	—	—
	400	1	35	1.25	MUR140RLOSCT-ND	2.92	21.02	39.42	—	—
	50	4	125	0.890	MUR405OS-ND	4.20	31.50	63.00	—	—
	150	4	125	0.890	MUR415GOS-ND◊ ***NEW!***	4.27	32.04	64.08	—	—
	200	4	125	0.890	MUR420RLOSCT-ND	4.27	32.04	64.08	1,500	171.00/M
	200	4	125	0.890	MUR420RLGOSCT-ND◊ ***NEW!***	4.27	32.04	64.08	1,500	171.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. † Pinning Reversed ◊ ***RoHS Compliant***

Schottky Barrier Diodes

Package	Rev. Volt. VWPRV	Avg. For. Curr. IO (A)	Power Dissipation (mW)	Peak Surge Current IFSM (A)	Forward Volt. Max @ VF (Vdc)	@ IF	Pinning 1	2	3	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel* Size	Tape & Reel* Pricing
SOT-23	7	—	225	—	0.6†	10mA	A	—	K	MMBD101LT1OSCT-ND	1.83	12.89	23.44	3,000	69.00/M
	40	.12	225	.2	0.5	10mA	A	K	A/K	BAS40-04LT1GOSCT-ND◊ ***NEW!***	2.85	18.53	32.06	3,000	67.00/M
	40	.12	225	.2	0.5	10mA	K	K	A	BAS40-06LT1OSCT-ND	1.75	12.32	22.40	—	—
	40	.12	225	.2	0.5	10mA	K	K	A	BAS40-06LT1GOSCT-ND◊ ***NEW!***	2.85	18.53	32.06	3,000	67.00/M
	40	.12	225	.2	0.5	10mA	A	—	K	BAS40LT1OSCT-ND	1.93	13.36	24.09	—	—
	40	.12	225	.2	0.5	10mA	A	—	K	BAS40LT1GOSCT-ND◊ ***NEW!***	2.61	16.97	29.36	3,000	61.00/M
	70	—	225	—	0.75	10mA	A	—	K	BAS70LT1OSCT-ND	1.61	11.31	20.56	3,000	60.00/M
	70	—	225	—	0.75	10mA	A	—	K	BAS70LT1GOSCT-ND◊ ***NEW!***	2.61	16.97	29.36	3,000	61.00/M
	30	.2	225	.6	0.40	10mA	K	K	A	BAT54ALT1OSCT-ND	2.10	14.56	26.25	3,000	—
	30	.2	225	.6	0.40	10mA	K	K	A	BAT54ALT1GOSCT-ND◊ ***NEW!***	1.90	12.35	21.38	3,000	45.00/M
	30	.2	225	.6	0.5	30mA	A	K	K/A	BAT54SLT1GOSCT-ND◊ ***NEW!***	1.90	12.35	21.38	3,000	45.00/M
	30	.2	200	.3	0.5	30mA	A	—	K	BAT54LT1OSCT-ND	1.73	12.01	21.66	—	—
	30	.2	200	.3	0.5	30mA	A	—	K	BAT54LT1GOSCT-ND◊ ***NEW!***	1.66	10.79	18.68	3,000	39.00/M
SOT-323	20	—	200	—	0.37	1mA	K	K	A	MMBD717LT1OSCT-ND	1.85	12.79	23.06	3,000	50.00/M
	30	.2	200	.6	0.5	30mA	A	K	K/A	BAT54SWT1GOSCT-ND◊ ***NEW!***	2.25	14.63	25.31	3,000	53.00/M
	30	.2	200	.6	0.5	30mA	A	—	K	BAT54WT1GOSCT-ND◊ ***NEW!***	2.02	13.13	22.73	3,000	47.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Package	Rev. Volt. VWPRV	Avg. For. Curr. IO (A)	Power Dissipation (mW)	Peak Surge Current IFSM (A)	Forward Volt. Max @ VF (Vdc)	@ IF	Digi-Key Part No.	Pricing 10	100	250	Tape & Reel* Size	Tape & Reel* Pricing
SOT-363	30	.2	150	.6	0.4	10MA	MBD54DWT1OSCT-ND	2.92	20.55	37.36	3,000	84.00/M
	30	.2	150	.6	0.4	10MA	MBD54DWT1GOSCT-ND◊ ***NEW!***	2.97	20.90	38.00	3,000	86.00/M
DO-41	20	1	—	25	0.45	1A	1N5817RLGOSCT-ND◊ ***NEW!***	3.34	23.50	42.72	5,000	91.00/M
	30	1	—	25	0.55	1A	1N5818RLOSCT-ND	3.29	23.14	42.08	—	—
	30	1	—	25	0.55	1A	1N5818RLGOSCT-ND◊ ***NEW!***	3.34	23.50	42.72	5,000	91.00/M
	40	1	—	25	0.6	1A	1N5819RLOSCT-ND	3.29	23.14	42.08	5,000	89.00/M
	40	1	—	25	0.6	1A	1N5819RLGOSCT-ND◊ ***NEW!***	3.34	23.50	42.72	5,000	91.00/M
	50	1	750	25	0.75	1A	MBR150RLOSCT-ND	3.61	25.43	46.24	5,000	98.00/M
	50	1	750	25	0.75	1A	MBR150RLGOSCT-ND◊ ***NEW!***	3.71	26.09	47.44	5,000	101.00/M
	60	1	750	25	0.75	1A	MBR160RLGOSCT-ND◊ ***NEW!***	3.71	26.09	47.44	5,000	101.00/M
	100	1	500	50	0.79	1A	MBR1100RLGOSCT-ND◊ ***NEW!***	3.86	27.76	52.04	5,000	123.00/M
DO-201AD	20	3	—	80	0.475	3A	1N5820RLOSCT-ND	3.64	27.30	54.60	—	—
	20	3	—	80	0.475	3A	1N5820RLGOSCT-ND◊ ***NEW!***	3.70	27.75	55.50	1,500	148.00/M
	30	3	—	80	0.5	3A	1N5821RLOSCT-ND	3.64	27.30	54.60	1,500	146.00/M
	30	3	—	80	0.5	3A	1N5821RLGOSCT-ND◊ ***NEW!***	3.70	27.75	55.50	1,500	148.00/M
	40	3	—	80	0.525	3A	1N5822RLGOSCT-ND◊ ***NEW!***	3.70	27.75	55.50	1,500	148.00/M
	40	3	1,250	80	0.5	1A	MBR340GOS-ND◊ ***NEW!***	4.16	29.92	56.09	—	—
	50	3	1,500	80	0.6	1A	MBR350RLGOSCT-ND◊ ***NEW!***	4.16	29.92	56.09	1,500	150.00/M
	60	3	1,500	80	0.6	1A	MBR360RLGOSCT-ND◊ ***NEW!***	4.16	29.92	56.09	1,500	150.00/M
	100	3	1,500	150	0.79	3A	MBR3100RLGOSCT-ND◊ ***NEW!***	5.70	42.72	85.44	1,500	228.00/M
SOT-93	45	30	10,000	200	0.76	30A	MBR3045PTGOS-ND◊ ***NEW!***	17.80	149.50	311.46	—	—
SOD-123	20	0.5	140	5.5	0.385	0.5A	MBR0520LT1OSCT-ND	2.38	16.76	30.48	3,000	76.00/M
	20	0.5	140	5.5	0.385	0.5A	MBR0520LT1GOSCT-ND◊ ***NEW!***	2.94	20.38	36.75	3,000	78.00/M
	30	0.5	175	5.5	0.43	0.5A	MBR0530T1GOSCT-ND◊ ***NEW!***	2.94	20.38	36.75	3,000	78.00/M
	30	1.0	—	5.5	0.47	1.0A	MBR130T1GOSCT-ND◊ ***NEW!***	3.71	26.09	47.44	3,000	107.00/M
	30	0.2	400	.6	0.40	10MA	BAT54T1GOSCT-ND◊ ***NEW!***	2.49	16.19	28.01	3,000	59.00/M
	40	0.5	2,250	5.5	0.62	1A	MBR0540T1OSCT-ND	2.56	18.00	32.72	3,000	76.00/M
	40	0.5	2,250	5.5	0.62	1A	MBR0540T1GOSCT-ND◊ ***NEW!***	2.94	20.38	36.75	3,000	78.00/M
SOD-323	30	—	200	.6	0.40	10MA	BAT54HT1OSCT-ND	2.28	15.81	28.50	3,000	49.00/M
	30	—	200	.6	0.40	10MA	BAT54HT1GOSCT-ND◊ ***NEW!***	2.49	16.19	28.01	3,000	59.00/M
	40	—	200	—	0.37	1MA	RB751V40T1GOSCT-ND◊ ***NEW!***	2.61	16.97	29.36	3,000	61.00/M
TO-92	30	—	280	—	0.6	10MA	MBD301OS-ND	2.81	19.45	—	—	—
	30	—	280	—	0.6	10MA	MBD301GOS-ND◊ ***NEW!***	2.85	19.76	35.63	—	—
	70	—	280	—	1	10MA	MBD701OS-ND	2.81	19.45	—	—	—
	70	—	280	—	1	10MA	MBD701GOS-ND◊ ***NEW!***	2.85	19.76	35.63	—	—
TO-220AC	15	25	—	150	0.45	25A	MBR2515LOS-ND	20.56	153.13	328.13	—	—
	15	25	—	150	0.45	25A	MBR2515LGOS-ND◊ ***NEW!***	22.25	186.88	389.33	—	—
	90	10	5,000	150	0.8	10A	MBR1090OS-ND	10.54	81.08	170.26	—	—
	90	10	5,000	150	0.8	10A	MBR1090GOS-ND◊ ***NEW!***	10.83	83.30	174.93	—	—
	100	10	5,000	150	0.8	10A	MBR10100GOS-ND◊ ***NEW!***	10.83	83.30	174.93	—	—
	35	10	—	150	0.84	20A	MBR1035GOS-ND◊ ***NEW!***	8.54	64.07	136.45	—	—
	45	10	5,500	150	0.84	20A	MBR1045OS-ND	8.30	62.26	132.60	—	—
	45	10	5,500	150	0.84	20A	MBR1045GOS-ND◊ ***NEW!***	8.52	63.94	136.16	—	—
	60	10	—	150	0.8	10A	MBR1060GOS-ND◊ ***NEW!***	8.52	63.94	136.16	—	—
	35	16	9,000	150	0.63	16A	MBR1635OS-ND	10.24	78.75	165.38	—	—
	35	16	9,000	150	0.63	16A	MBR1635GOS-ND◊ ***NEW!***	10.41	80.10	168.21	—	—

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

(Continued)

TO-247PSI

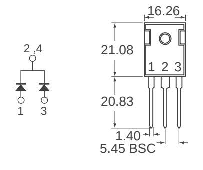

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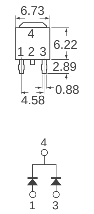

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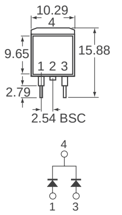

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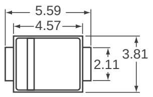

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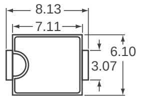

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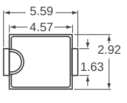

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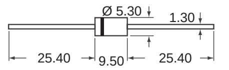

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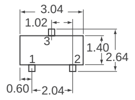

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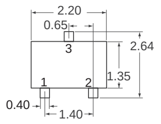

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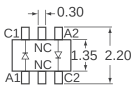

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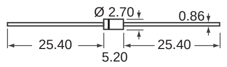

Schottky Barrier Diodes *(Cont.)*

Package	Rev. Volt. VWPRV	Avg. For. Curr. IO (A)	Power Dissipation (mW)	Peak Surge Current IFSM (A)	Forward Volt. Max @ VF (Vdc)	@ IF	Digi-Key Part No.	Pricing 10	100	250	Tape & Reel* Size	Pricing
TO-220AC	45	16	9,000	150	0.63	16A	MBR1645GOS-ND◊ ***NEW!***	10.41	80.10	168.21	—	—
	35	7.5	1,800	150	0.84	15A	MBR735OS-ND	7.56	56.70	120.75	—	—
	35	7.5	1,800	150	0.84	15A	MBR735GOS-ND◊ ***NEW!***	7.69	57.67	122.82	—	—
	45	7.5	1,800	150	0.84	15A	MBR745GOS-ND◊ ***NEW!***	7.69	57.67	122.82	—	—
TO-220AB	45	15	9,000	150	0.84	15A	MBR1545CTGOS-ND◊ ***NEW!***	8.11	60.86	129.61	—	—
	100	8	400	150	0.74	8A	MBR16100CTOS-ND	14.00	117.60	245.00	—	—
	100	8	400	150	0.74	8A	MBR16100CTGOS-ND◊ ***NEW!***	14.24	119.60	249.16	—	—
	200	20	—	150	0.9	10A	MBR20200CTOS-ND	16.04	134.76	280.74	—	—
	200	20	—	150	0.9	10A	MBR20200CTGOS-ND◊ ***NEW!***	16.32	137.05	285.51	—	—
	30	10	3,750	150	0.52	10A	MBR2030CTLOS-ND	16.04	134.76	280.74	—	—
	30	10	3,750	150	0.52	10A	MBR2030CTLGOS-ND◊ ***NEW!***	16.32	137.05	285.51	—	—
	45	20	—	150	0.84	20A	MBR2045CTOS-ND	8.32	62.37	132.83	—	—
	45	20	—	150	0.84	20A	MBR2045CTGOS-ND◊ ***NEW!***	8.54	64.07	136.45	—	—
	60	10	6,000	150	0.85	10A	MBR2060CTOS-ND	12.13	101.87	212.23	—	—
	60	10	6,000	150	0.85	10A	MBR2060CTGOS-ND◊ ***NEW!***	16.19	124.58	261.61	—	—
	100	10	6,000	150	0.85	10A	MBR20100CTGOS-ND◊ ***NEW!***	10.80	83.05	174.41	—	—
	35	12.5	5,000	150	0.47	12.5A	MBR2535CTLOS-ND	13.13	110.25	229.69	—	—
	35	12.5	5,000	150	0.47	12.5A	MBR2535CTLGOS-ND◊ ***NEW!***	13.35	112.12	233.58	—	—
	35	30	—	150	0.82	30A	MBR2535CTOS-ND	16.12	123.98	260.35	—	—
	35	30	—	150	0.82	30A	MBR2535CTGOS-ND◊ ***NEW!***	12.61	105.90	220.63	—	—
	45	30	—	150	0.82	30A	MBR2545CTOS-ND	11.75	107.66	244.69	—	—
	45	30	—	150	0.82	30A	MBR2545CTGOS-ND◊ ***NEW!***	12.72	97.88	205.54	—	—
TO-247	45	60	—	500	0.62	30A	MBR6045WTOS-ND	32.90	245.00	525.00	—	—
	45	60	—	500	0.62	30A	MBR6045WTGOS-ND◊ ***NEW!***	33.46	249.17	533.93	—	—
TO-220FP	45	25	—	150	0.7	12.5A	MBRF2545CTGOS-ND◊ ***NEW!***	20.77	174.43	363.39	—	—
	100	20	—	150	0.85	10A	MBRF20100CTOS-ND	24.79	208.26	433.87	—	—
	100	20	—	150	0.85	10A	MBRF20100CTGOS-ND◊ ***NEW!***	23.70	176.49	378.19	—	—
	200	20	—	150	0.9	10A	MBRF20200CTOS-ND	27.42	204.17	437.51	—	—
	200	20	—	150	0.9	10A	MBRF20200CTGOS-ND◊ ***NEW!***	27.88	207.64	444.94	—	—
D-Pak	20	3	1,000	75	0.6	3A	MBRD320T4OSCT-ND	6.51	48.84	104.02	2,500	258.00/M
	20	3	1,000	75	0.6	3A	MBRD320T4GOSCT-ND◊ ***NEW!***	6.62	49.65	105.74	2,500	262.00/M
	30	3	1,000	75	0.6	3A	MBRD330T4OSCT-ND	6.51	48.84	104.02	2,500	258.00/M
	30	3	1,000	75	0.6	3A	MBRD330T4GOSCT-ND◊ ***NEW!***	6.62	49.65	105.74	2,500	262.00/M
	40	3	1,000	75	0.6	3A	MBRD340T4OSCT-ND	6.51	48.84	104.02	2,500	258.00/M
	40	3	1,000	75	0.6	3A	MBRD340T4GOSCT-ND◊ ***NEW!***	6.62	49.65	105.74	2,500	262.00/M
	60	3	1,000	75	0.6	3A	MBRD360T4OSCT-ND	6.51	48.84	104.02	2,500	258.00/M
	60	3	1,000	75	0.6	3A	MBRD360T4GOSCT-ND◊ ***NEW!***	6.51	48.84	104.02	2,500	262.00/M
	20	6	4,000	75	0.7	3A	MBRD620CTT4OSCT-ND	7.35	55.16	117.47	—	—
	20	6	4,000	75	0.7	3A	MBRD620CTT4GOSCT-ND◊ ***NEW!***	7.47	56.05	119.37	2,500	296.00/M
	40	6	4,000	75	0.7	3A	MBRD640CTT4OSCT-ND	7.35	55.16	117.47	2,500	291.00/M
	40	6	4,000	75	0.7	3A	MBRD640CTT4GOSCT-ND◊ ***NEW!***	7.47	56.05	119.37	2,500	296.00/M
	60	6	4,000	75	0.7	3A	MBRD660CTT4OSCT-ND	7.35	55.16	117.47	2,500	291.00/M
	60	6	4,000	75	0.7	3A	MBRD660CTT4GOSCT-ND◊ ***NEW!***	7.47	56.05	119.37	2,500	296.00/M
	35	8	3,750	75	0.51	8A	MBRD835LT4OSCT-ND	7.07	53.03	112.93	2,500	280.00/M
	35	8	3,750	75	0.51	8A	MBRD835LT4GOSCT-ND◊ ***NEW!***	7.26	54.46	115.98	2,500	287.00/M
	35	10	2,000	50	0.47	5A	MBRD1035CTLT4OSCT-ND	8.72	67.10	140.91	2,500	357.00/M
	35	10	2,000	50	0.47	5A	MBRD1035CTLT4GOSCT-ND◊ ***NEW!***	8.87	68.23	143.27	2,500	363.00/M
D2pak A	35	12.5	7,500	150	0.55	25A	MBRB2535CTLT4OSCT-ND	18.96	159.26	331.80	800	910.40
	35	12.5	7,500	150	0.55	25A	MBRB2535CTLT4GOSCT-ND◊ ***NEW!***	19.28	161.95	337.40	800	925.60
	45	30	16,000	150	0.82	30A	MBRB2545CTT4OSCT-ND	16.04	134.76	280.74	800	770.40
	45	30	16,000	150	0.82	30A	MBRB2545CTT4GOSCT-ND◊ ***NEW!***	16.32	137.05	285.51	800	783.20
	45	15	8,000	150	0.84	15A	MBRB1545CTT4OSCT-ND	10.80	83.05	174.41	800	440.80
	45	15	8,000	150	0.84	15A	MBRB1545CTT4GOSCT-ND◊ ***NEW!***	10.80	83.05	174.41	800	440.80
	100	20	13,000	150	0.85	10A	MBRB20100CTT4OSCT-ND	14.00	117.60	245.00	800	672.00
	100	20	13,000	150	0.85	10A	MBRB20100CTT4GOSCT-ND◊ ***NEW!***	14.24	119.60	249.16	800	683.20
	200	10	6,000	150	0.9	10A	MBRB20200CTT4OSCT-ND	28.75	241.50	503.13	800	1288.00
	200	10	6,000	150	0.9	10A	MBRB20200CTT4GOSCT-ND◊ ***NEW!***	27.03	201.25	431.25	800	1288.00
D2pak B	30	40	—	300	0.46	20A	MBRB4030T4OSCT-ND	23.30	173.55	371.89	800	1110.40
	30	40	—	300	0.46	20A	MBRB4030T4GOSCT-ND◊ ***NEW!***	23.70	176.49	378.19	800	1129.60
SMA	10	2	425	160	0.325	1A	MBRA210LT3OSCT-ND	3.74	28.02	56.04	5,000	131.00/M
	10	2	425	160	0.325	1A	MBRA210LT3GOSCT-ND◊ ***NEW!***	3.80	28.47	56.94	5,000	133.00/M
	20	1	300	40	0.395	1A	MBRA120LT3OSCT-ND	3.04	21.85	40.97	5,000	97.00/M
	30	1	300	25	0.41	1A	MBRA130LT3OSCT-ND	3.04	21.85	40.97	5,000	83.00/M
	30	1	300	25	0.41	1A	MBRA130LT3GOSCT-ND◊ ***NEW!***	3.34	23.50	42.72	5,000	91.00/M
	40	1	500	30	0.55	1A	MBRA140T3OSCT-ND	3.04	21.85	40.97	—	—
	40	1	500	30	0.55	1A	MBRA140T3GOSCT-ND◊ ***NEW!***	3.34	23.50	42.72	5,000	91.00/M
	40	3	—	100	.45	3A	MBRA340T3GOSCT-ND◊ ***NEW!***	3.94	29.55	59.10	5,000	138.00/M
	60	1	—	40	0.72	1A	SS16T3OSCT-ND	3.06	21.56	39.20	5,000	83.00/M
	60	1	—	40	0.72	1A	SS16T3GOSCT-ND◊ ***NEW!***	3.06	21.56	39.20	5,000	83.00/M
SMB	20	1	525	40	0.6	1A	MBRS120T3GOSCT-ND◊ ***NEW!***	3.56	25.08	45.60	2,500	103.00/M
	30	1	525	40	0.6	1A	MBRS130T3OSCT-ND	2.92	21.02	39.42	—	—
	30	1	525	40	0.6	1A	MBRS130T3GOSCT-ND◊ ***NEW!***	3.56	25.08	45.60	2,500	103.00/M
	30	2	250	40	0.395	1A	MBRS130LT3GOSCT-ND◊ ***NEW!***	3.56	25.08	45.60	2,500	103.00/M
	40	1	500	40	0.6	1A	MBRS140T3OSCT-ND	2.92	21.02	39.42	2,500	100.00/M
	40	1	500	40	0.6	1A	MBRS140T3GOSCT-ND◊ ***NEW!***	3.56	25.08	45.60	2,500	103.00/M
	40	1	425	40	0.5	1A	MBRS140LT3OSCT-ND	7.50	54.00	101.25	2,500	255.00/M
	40	2	800	25	0.43	2A	MBRS240LT3GOSCT-ND◊ ***NEW!***	3.86	27.76	52.04	2,500	131.00/M
	40	2	625	70	0.43	2A	MBRS2040LT3OSCT-ND	3.04	22.77	45.54	2,500	129.00/M
	40	2	625	70	0.43	2A	MBRS2040LT3GOSCT-ND◊ ***NEW!***	3.86	27.76	52.04	2,500	131.00/M
	90	2	1,200	50	0.75	1A	MBRS190T3OSCT-ND	3.27	24.51	49.02	—	—
	90	2	1,200	50	0.75	1A	MBRS190T3GOSCT-ND◊ ***NEW!***	4.16	29.92	56.09	2,500	141.00/M
	100	2	1,200	50	0.75	1A	MBRS1100T3GOSCT-ND◊ ***NEW!***	3.80	27.32	51.23	2,500	129.00/M
	40	2	—	75	0.50	2A	SS24T3GOSCT-ND◊ ***NEW!***	3.71	26.09	47.44	2,500	107.00/M
	60	2	—	40	0.51	1A	SS26T3GOSCT-ND◊ ***NEW!***	3.27	23.51	44.08	2,500	111.00/M
SMC	20	4	2,500	80	0.50	3A	MBRS320T3OSCT-ND	3.36	25.22	53.71	2,500	140.00/M
	20	4	2,500	80	0.50	3A	MBRS320T3GOSCT-ND◊ ***NEW!***	3.80	28.47	56.94	2,500	142.00/M
	30	4	2,500	80	0.50	3A	MBRS330T3GOSCT-ND◊ ***NEW!***	3.80	28.47	56.94	2,500	142.00/M
	40	4	2,500	80	0.525	3A	MBRS340T3GOSCT-ND◊ ***NEW!***	3.80	28.47	56.94	2,500	142.00/M
	40	5	—	190	0.50	5A	MBRS540T3OSCT-ND	12.68	106.47	221.81	2,500	152.00/M
	40	5	—	190	0.50	5A	MBRS540T3GOSCT-ND◊ ***NEW!***	4.75	35.61	71.22	2,500	178.00/M
	60	4	2,500	80	0.74	3A	MBRS360T3OSCT-ND	3.57	26.81	57.10	—	—
	60	4	2,500	80	0.74	3A	MBRS360T3GOSCT-ND◊ ***NEW!***	4.04	30.27	60.54	2,500	151.00/M
	100	3	—	130	0.79	3A	MBRS3100T3OSCT-ND	5.60	42.00	84.00	2,500	210.00/M
	100	3	—	130	0.79	3A	MBRS3100T3GOSCT-ND◊ ***NEW!***	5.70	42.72	85.44	2,500	214.00/M
Powermite	10	1	—	50	.365	1A	MBRM110LT1OSCT-ND	3.80	27.32	51.23	3,000	129.00/M
	10	1	—	50	.365	1A	MBRM110LT1GOSCT-ND◊ ***NEW!***	3.86	27.76	52.04	3,000	131.00/M
	10	1	—	50	0.53	1A	MBRM110ET1OSCT-ND	3.80	27.32	51.23	3,000	129.00/M
	10	1	—	50	0.53	1A	MBRM110ET1GOSCT-ND◊ ***NEW!***	3.86	27.76	52.04	3,000	131.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

(Continued)

SOT-93

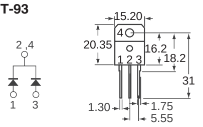

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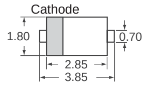

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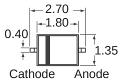

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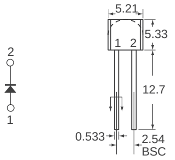

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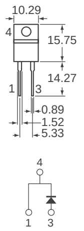

TO-220AB

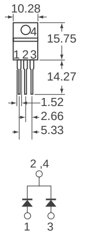

TO-247

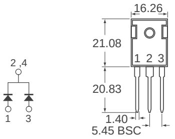

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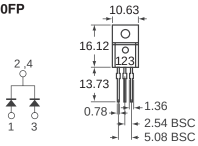

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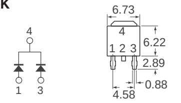

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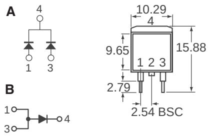

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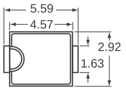

SMB

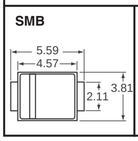

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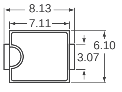

Schottky Barrier Diodes *(Cont.)*

Package	Rev. Volt. V_{WPRV}	Avg. For. Curr. I_O (A)	Power Dissipation (mW)	Peak Surge Current I_{FSM} (A)	Forward Volt. Max @ VF (Vdc)	@ IF	Digi-Key Part No.	Pricing 10	100	250	Tape & Reel* Size	Pricing
Powermite	20	1	325	50	0.45	1A	MBRM120LT1GOSCT-ND◊ ***NEW!***	3.86	27.76	52.04	3,000	131.00/M
	20	1	375	50	0.53	1A	MBRM120ET3OSCT-ND	3.04	22.77	45.54	—	—
	20	1	375	50	0.53	1A	MBRM120ET3GOSCT-ND◊ ***NEW!***	3.86	27.76	52.04	12,000	116.00/M
	30	1	325	50	0.38	1A	MBRM130LT1OSCT-ND	3.04	22.77	45.54	3,000	129.00/M
	30	1	325	50	0.38	1A	MBRM130LT1GOSCT-ND◊ ***NEW!***	3.86	27.76	52.04	3,000	131.00/M
	40	1	475	50	0.55	1A	MBRM140T1GOSCT-ND◊ ***NEW!***	3.86	27.76	52.04	3,000	131.00/M
	40	1	—	50	0.36	.1A	MBRM140T3GOSCT-ND◊ ***NEW!***	3.86	27.76	52.04	12,000	116.00/M
Powertap	30	200	—	200	0.60	200A	MBRP20030CTLOS-ND	257.25	2280.95	5466.56	—	—
	30	200	—	200	0.60	200A	MBRP20030CTLGOS-ND◊ ***NEW!***	272.25	2413.95	5785.31	—	—
	60	300	—	2,500	0.79	150A	MBRP30060CTGOS-ND◊ ***NEW!***	277.50	2460.50	5896.88	—	—
	100	400	—	2,500	0.83	200A	MBRP400100CTLGOS-ND◊ ***NEW!***	315.00	2793.00	6693.75	—	—
SOD-523	30	.2	200	.6	0.35	10mA	BAT54XV2T1OSCT-ND	2.69	17.49	30.26	—	—
	30	.2	200	.6	0.35	10mA	BAT54XV2T1GOSCT-ND◊ ***NEW!***	2.60	16.90	29.25	3,000	61.00/M
	30	200	200	—	0.60	200mA	RB520S30T1OSCT-ND	1.73	11.25	19.46	3,000	41.00/M
	30	200	200	—	0.60	200mA	RB520S30T1GOSCT-ND◊ ***NEW!***	1.78	11.57	20.03	3,000	42.00/M
	30	.2	200	—	0.50	200mA	RB521S30T1GOSCT-ND◊ ***NEW!***	1.78	11.57	20.03	3,000	42.00/M
	40	.03	200	—	0.37	1.0mA	RB751S40T1GOSCT-ND◊ ***NEW!***	1.78	11.57	20.03	3,000	42.00/M
SOD-123FL	20	1	—	40	0.53	1A	MBR120ESFT1GOSCT-ND◊ ***NEW!***	3.71	26.09	47.44	3,000	107.00/M
	20	1	—	45	0.34	1A	MBR120VLSFT1OSCT-ND	4.00	30.00	60.00	—	—
	20	1	—	45	0.34	1A	MBR120VLSFT1GOSCT-ND◊ ***NEW!***	4.00	30.00	60.00	3,000	150.00/M
	40	1	—	30	0.55	1.0A	MBR140SFT1OSCT-ND	3.61	25.43	46.24	—	—
	40	1	—	30	0.55	1.0A	MBR140SFT1GOSCT-ND◊ ***NEW!***	3.71	26.09	47.44	3,000	107.00/M
SOT-563 A	23	1	200	—	0.27	10mA	NSR0320XV6T1OSCT-ND	3.65	25.70	46.72	—	—
	23	1	200	—	0.27	10mA	NSR0320XV6T1GOSCT-ND◊ ***NEW!***	3.71	26.09	47.44	4,000	107.00/M
SOT-363 A/ SC-88	15	.03	—	—	.415	1mA	NSR15DW1T1OSCT-ND	2.99	21.08	38.32	3,000	86.00/M
	15	.03	—	—	.415	1mA	NSR15DW1T1GOSCT-ND◊ ***NEW!***	3.04	21.38	38.88	3,000	87.00/M
SOT-363 B/ SC-88	15	.03	—	—	.415	1mA	NSR15TW1T2OSCT-ND	3.50	25.20	47.25	3,000	119.00/M
	15	.03	—	—	.415	1mA	NSR15TW1T2GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	3,000	121.00/M
SC-82	40	.3	200	.5	.28	1.0mA	1SS383T1GOSCT-ND	5.88	44.10	88.20	—	—

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Switching Diodes

Package	Working Peak Rev. Volt. VRWM	Average Rectified For. Current I_F	Power Dissi-pation (mW)	Peak Surge Current I_{FM} (mA)	Maximum Instantaneous Forward Volt. Drop (V_F)	I_F (mAdc)	Pinning 1	2	3	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape & Reel* Size	Pricing
SOT-23	7	—	225	—	0.6	10	K	A	K/A	MMBD353LT1OSCT-ND†	2.56	18.00	32.72	—	—
	35	100	225	—	1	10	K	K	A	MMBD2835LT1OSCT-ND†	1.27	8.26	14.29	3,000	34.00/M
	75	100	225	—	1	10	K	K	A	MMB D2836LT1OSCT-ND†	1.27	8.26	14.29	—	—
	75	150	225	—	1	10	A	A	K	MMBD2837LT1OSCT-ND†	1.27	8.26	14.29	3,000	34.00/M
	75	100	225	—	1	10	A	A	K	MMBD2838LT1OSCT-ND†	1.27	8.26	14.29	3,000	34.00/M
	100	200	225	500	0.7	1	A	K	K/A	MMBD7000LT1OSCT-ND†	1.16	7.54	13.05	—	—
	50	200	225	500	1	100mA	A	A	K	BAV74LT1OSCT-ND	1.86	10.44	17.40	3,000	25.00/M
	50	200	225	500	1	100mA	A	A	K	BAV74LT1GOSCT-ND◊ ***NEW!***	1.52	8.55	14.25	3,000	26.00/M
	70	215	225	500	1	10	A	K	K/A	BAV199LT1OSCT-ND	1.76	12.17	21.94	—	—
	70	215	225	500	1	10	A	K	K/A	BAV199LT1GOSCT-ND◊ ***NEW!***	2.37	15.41	26.66	3,000	56.00/M
	70	200	225	500	.8	10	A	A	K	BAV70LT1OSCT-ND	1.86	10.44	17.40	—	—
	70	200	225	500	.8	10	A	A	K	BAV70LT1GOSCT-ND◊ ***NEW!***	1.52	8.55	14.25	3,000	26.00/M
	70	215	225	500	.8	10	A	K	K/A	BAV99LT1GOSCT-ND◊ ***NEW!***	1.52	8.55	14.25	3,000	26.00/M
	70	200	225	500	.8	10	K	K	A	BAW56LT1GOSCT-ND◊ ***NEW!***	1.52	8.55	14.25	3,000	26.00/M
	70	100	225	—	.8	10	—	K	A	BAL99LT1OSCT-ND	1.16	7.54	13.05	3,000	31.00/M
	70	100	225	—	.8	10	—	K	A	BAL99LT1GOSCT-ND◊ ***NEW!***	1.90	10.71	17.85	3,000	32.00/M
	75	200	225	500	1	10	A	—	K	BAS116LT1OSCT-ND	2.10	13.65	23.63	3,000	49.00/M
	75	200	225	500	1	10	A	—	K	BAS116LT1OSCT-ND◊ ***NEW!***	2.10	13.65	23.63	3,000	49.00/M
	75	200	225	500	.8	10	A	—	K	BAS16LT1OSCT-ND	1.16	7.54	13.05	3,000	25.00/M
	75	200	225	500	.8	10	A	—	K	BAS16LT1GOSCT-ND◊ ***NEW!***	1.52	8.55	14.25	3,000	26.00/M
	120	200	225	625	1	100mA	A	—	K	BAS19LT1OSCT-ND	1.16	7.54	13.05	3,000	25.00/M
	120	200	225	625	1	100mA	A	—	K	BAS19LT1GOSCT-ND◊ ***NEW!***	1.52	8.55	14.25	3,000	26.00/M
	200	200	225	625	1	100mA	A	—	K	BAS20LT1OSCT-ND	1.16	7.54	13.05	3,000	25.00/M
	200	200	225	625	1	100mA	A	—	K	BAS20LT1GOSCT-ND◊ ***NEW!***	1.52	8.55	14.25	3,000	26.00/M
	250	200	225	625	1	100mA	A	—	K	BAS21LT1OSCT-ND	1.86	10.44	17.40	3,000	25.00/M
	250	200	225	625	1	100mA	A	—	K	BAS21LT1GOSCT-ND◊ ***NEW!***	1.52	8.55	14.25	3,000	26.00/M
SOT-23S	70	200	225	500	0.7	1	A	A	K	MMBD6100LT1OSCT-ND†	1.27	8.26	14.29	3,000	34.00/M
	100	200	225	500	1	10	A	—	K	MMBD914LT1OSCT-ND	.92	5.98	10.35	—	—
SOT-323	40	100	150	500	1.2	100mA	A	—	K	M1MA141KT1OSCT-ND	1.27	8.26	14.29	3,000	34.00/M
	40	100	150	500	1.2	100mA	A	—	K	M1MA141KT1GOSCT-ND◊ ***NEW!***	2.10	11.79	19.65	3,000	35.00/M
	70	200	200	500	.8	10	A	A	K	BAV70WT1GOSCT-ND◊ ***NEW!***	2.10	11.79	19.65	3,000	35.00/M
	70	215	200	500	.8	10	K	A	K/A	BAV99RWT1OSCT-ND	1.27	8.26	14.29	3,000	34.00/M
	70	215	200	500	.8	10	K	A	K/A	BAV99RWT1GOSCT-ND◊ ***NEW!***	2.10	11.79	19.65	3,000	35.00/M
	70	215	200	500	.855	10	A	K	K/A	BAV99WT1GOSCT-ND◊ ***NEW!***	2.10	11.79	19.65	3,000	35.00/M
	70	200	200	500	.8	10	K	—	A	BAW56WT1GOSCT-ND◊ ***NEW!***	2.10	11.79	19.65	3,000	35.00/M
	75	200	200	500	.8	10	A	—	K	BAS16WT1OSCT-ND	1.27	8.26	14.29	3,000	34.00/M
	75	200	200	500	.8	10	A	—	K	BAS16WT1GOSCT-ND◊ ***NEW!***	2.10	11.79	19.65	3,000	35.00/M
SOD-323	75	200	200	500	.8	10	—	—	—	BAS16HT1GOSCT-ND◊ ***NEW!***	2.10	11.79	19.65	3,000	35.00/M
	250	200	200	625	1	100mA	—	—	—	BAS21HT1GOSCT-ND◊ ***NEW!***	1.66	10.79	18.68	3,000	39.00/M
SOT-416/ SC-75	80	100	150	2,000	1.2	100mA	K	K	A	DAP222OSCT-ND	1.29	8.39	14.51	3,000	—
	80	100	150	2,000	1.2	100mA	K	K	A	DAP222GOSCT-ND◊ ***NEW!***	2.10	11.79	19.65	3,000	35.00/M
SOD-523	75	200	120	500	.715	1.0	K	A	—	BAS16XV2T1GOSCT-ND◊ ***NEW!***	2.27	12.78	21.30	3,000	38.00/M
	100	200	200	500	1.2	100	K	A	—	1SS400T1OSCT-ND	1.73	11.25	19.46	—	—
	100	200	200	500	1.2	100	K	A	—	1SS400T1GOSCT-ND◊ ***NEW!***	1.78	11.57	20.03	3,000	42.00/M
	100	200	120	500	1.0	10	K	A	—	NSD914XV2T1GOSCT-ND◊ ***NEW!***	2.67	18.51	33.38	3,000	71.00/M
SOT-353	250	200	385	625	1.0	100	—	—	—	BAS21DW5T1OSCT-ND	2.10	13.65	23.63	—	—
	250	200	385	625	1.0	100	—	—	—	BAS21DW5T1GOSCT-ND◊ ***NEW!***	2.14	13.91	24.08	3,000	50.00/M
SOT-363 C/ SC-88	85	100	300	240	1.2	100	—	—	—	HN2D02FUTW1T1OSCT-ND	3.07	21.27	38.34	3,000	82.00/M
	85	100	300	240	1.2	100	—	—	—	HN2D02FUTW1T1GOSCT-ND◊ ***NEW!***	3.11	21.58	38.91	3,000	83.00/M
SOT-563 B	75	200	357	500	.715	1.0	—	—	—	BAS16DXV6T1OSCT-ND	2.34	16.81	31.52	4,000	79.00/M
	75	200	357	500	.715	1.0	—	—	—	BAS16DXV6T1GOSCT-ND◊ ***NEW!***	2.97	20.90	38.00	4,000	86.00/M
SOT-563 C	70	200	357	500	.715	1.0	—	—	—	BAV70DXV6T1OSCT-ND	2.34	16.81	31.52	4,000	79.00/M
	70	200	357	500	.715	1.0	—	—	—	BAV70DXV6T1GOSCT-ND◊ ***NEW!***	2.97	20.90	38.00	4,000	86.00/M
SOT-563 D	80	100	357	300	1.2	100	—	—	—	NSDEMN11XV6T1OSCT-ND	2.34	16.81	31.52	4,000	79.00/M
	80	100	357	300	1.2	100	—	—	—	NSDEMN11XV6T1GOSCT-ND◊ ***NEW!***	3.11	21.91	39.84	4,000	90.00/M
SOT-563 E	80	100	357	300	1.2	100	—	—	—	NSDEMP11XV6T1OSCT-ND	2.34	16.81	31.52	—	—
	80	100	357	300	1.2	100	—	—	—	NSDEMP11XV6T1GOSCT-ND◊ ***NEW!***	3.11	21.91	39.84	4,000	90.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. † Dual Array ◊ ***RoHS Compliant***

POWERMITE

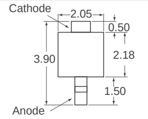

Powertap Case 357C

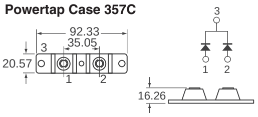

SOD-523

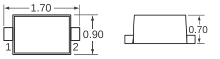

SOT-563

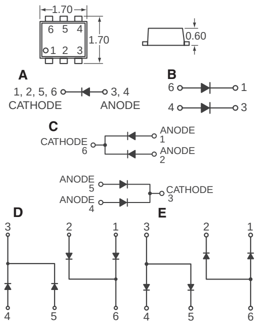

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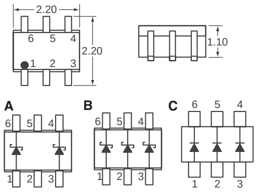

SC-82

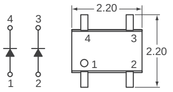

SOT-23

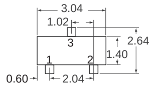

SOT-23S

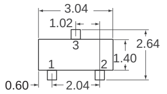

SOT-323

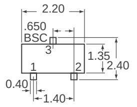

SOD-123
SOD-123FL

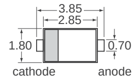

SOD-323

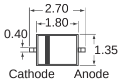

SOT-416/
SC-75

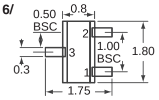

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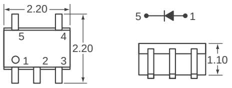

High Speed Switching Diodes

Fig. 1 — SOT-23

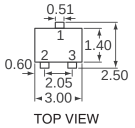

Fig. 2 — SOT-323

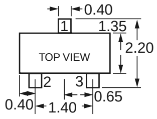

Fig. 3 — SOT-523

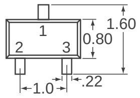

Fig. 4 — SOT-563

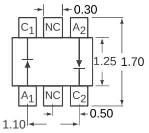

Fig. 5 — SOT-363

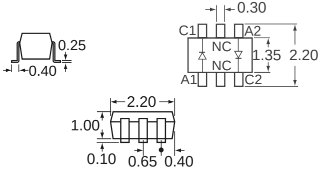

Fig. 6 — DO-35

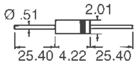

Fig. 7 — MiniMELF

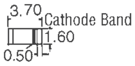

Fig. 8 — SOD-123

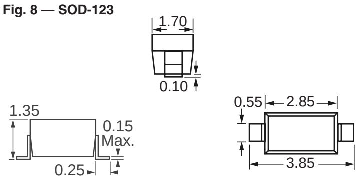

Fig. 9 — SOD-323

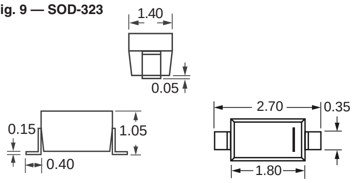

Fig. 10 — SOD-523

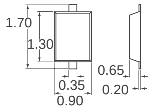

Fig. 11 — DFN1006-2

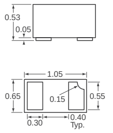

Fig.	Peak Reverse Voltage VRWM (V)	Max. Rev. Current IR (µA)	VR (V)	Max. For. Voltage@ VF (V)	IF (mA)	Max. Capacitance C (pF)	Max. Rev. Recovery Time Trr (nS)	Power Dissipation Pd (mW)	Pinning 1	2	3	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing
1	75	2.5	75	1.0	50	2.0	4.0	350	A	—	K	BAL99DICT-ND	3.00	20.80	92.00	BAL99DITR-ND	3,000	80.00/M
	75	2.5	75	1.0	50	2.0	4.0	350	A	—	K	BAL99-FDICT-ND◊	3.00	20.80	92.00	BAL99-FDITR-ND◊	3,000	80.00/M
	75	1.0	75	.855	10	2.0	4.0	350	K	A	—	BAS16-FDICT-ND◊	2.25	15.60	69.00	BAS16-FDITR-ND◊	3,000	60.00/M
	100	0.1	100	1.0	100	5.0	50	250	K	A	—	BAS19-FDICT-ND◊	2.81	19.80	90.00	BAS19-FDITR-ND◊	3,000	81.00/M
	150	0.1	150	1.0	100	5.0	50	250	K	A	—	BAS20DICT-ND	2.81	19.80	90.00	BAS20DITR-ND	3,000	81.00/M
	150	0.1	150	1.0	100	5.0	50	250	K	A	—	BAS20-FDICT-ND◊	2.81	19.80	90.00	BAS20-FDITR-ND◊	3,000	81.00/M
	200	0.1	250	1.0	100	5.0	50	250	K	A	—	BAS21-FDICT-ND◊	2.81	19.80	90.00	BAS21-FDITR-ND◊	3,000	81.00/M
	85	.005	75	1.0	10	2.0	3.0§	250	K	A	—	BAS116DICT-ND	3.00	20.80	92.00	BAS116DITR-ND	3,000	80.00/M
	200	0.1	250	1.0	100	5.0	50	350	A	K	K	BAV23A-FDICT-ND◊	3.13	22.00	100.00	BAV23A-FDITR-ND◊	3,000	90.00/M
	200	0.1	250	1.0	100	5.0	50	350	K/K	A	A	BAV23C-FDICT-ND◊	3.13	22.00	100.00	BAV23C-FDITR-ND◊	3,000	90.00/M
	200	0.1	200	1.0	100	5.0	50	350	—	A	K	BAV23S-FDICT-ND◊	3.13	22.00	100.00	BAV23S-FDITR-ND◊	3,000	90.00/M
	75	2.5	75	.855	10	2.0	4.0	350	K	A	A	BAV70-FDICT-ND◊	2.63	18.20	80.50	BAV70-FDITR-ND◊	3,000	70.00/M
	75	2.5	70	.855	10	1.5	6.0	350	K/A	A	K	BAV99DICT-ND	3.00	20.80	92.00	BAV99DITR-ND	3,000	80.00/M
	75	2.5	70	.855	10	1.5	6.0	350	K/A	A	K	BAV99-FDICT-ND◊	3.00	20.80	92.00	BAV99-FDITR-ND◊	3,000	80.00/M
	85	.005	75	1.0	10	2.0	3.0§	250	K/K	A	A	BAV170-FDICT-ND◊	3.13	22.00	100.00	BAV170-FDITR-ND◊	3,000	90.00/M
	85	.005	75	1.0	10	2.0	3.0§	250	K/A	A	K	BAV199DICT-ND	3.13	22.00	100.00	BAV199DITR-ND	3,000	90.00/M
	75	2.5	75	.855	10	2.0	4.0	350	A	K	K	BAW56DICT-ND	2.81	19.80	90.00	BAW56DITR-ND	3,000	81.00/M
	75	2.5	75	.855	10	2.0	4.0	350	A	K	K	BAW56-FDICT-ND◊	2.81	19.80	90.00	BAW56-FDITR-ND◊	3,000	81.00/M
	85	.005	75	1.0	10	3.0	3.0§	250	A	K	K	BAW156DICT-ND	3.13	22.00	100.00	—	—	—
	85	.005	75	1.0	10	3.0	3.0§	250	A	K	K	BAW156-FDICT-ND◊	3.13	22.00	100.00	BAW156-FDITR-ND◊	3,000	90.00/M
	75	1.0	75	1.0	50	2.0	4.0	350	K	A	—	MMBD914-FDICT-ND◊	2.25	15.60	69.00	MMBD914-FDITR-ND◊	3,000	60.00/M
	300	0.1	240	1.0	100	5.0	50	350	K/A	A	K	MMBD3004S-FDICT-ND◊	3.13	22.00	100.00	MMBD3004S-FDITR-ND◊	3,000	90.00/M
	75	2.5	75	1.0	50	2.0	4.0	350	K	A	—	MMBD4148DICT-ND	2.25	15.60	69.00	MMBD4148DITR-ND	3,000	60.00/M
	75	2.5	75	1.0	50	2.0	4.0	350	K	A	—	MMBD4148-FDICT-ND◊	2.25	15.60	69.00	MMBD4148-FDITR-ND◊	3,000	60.00/M
	75	2.5	75	1.0	100	4.0	4.0	350	K	A	—	MMBD4448DICT-ND	2.25	15.60	69.00	MMBD4448DITR-ND	3,000	60.00/M
	75	2.5	75	1.0	100	4.0	4.0	350	K	A	—	MMBD4448-FDICT-ND◊	2.25	15.60	69.00	MMBD4448-FDITR-ND◊	3,000	60.00/M
	80	1.0	75	1.0	100	3.5	4.0	350	K	A	—	MMBD4448HDICT-ND	2.25	15.60	69.00	MMBD4448HDITR-ND	3,000	60.00/M
	80	1.0	75	1.0	100	3.5	4.0	350	K	A	—	MMBD4448H-FDICT-ND◊	2.25	15.60	69.00	MMBD4448H-FDITR-ND◊	3,000	60.00/M
	75	3.0	100	1.25	150	2.0	4.0	350	K/A	A	K	MMBD7000DICT-ND	3.00	20.80	92.00	MMBD7000DITR-ND	3,000	80.00/M
	75	3.0	100	1.25	150	2.0	4.0	350	K/A	A	K	MMBD7000-FDICT-ND◊	3.00	20.80	92.00	MMBD7000-FDITR-ND◊	3,000	80.00/M
2	75	1.0	75	.855	10	2.0	4.0	200	K	A	—	BAS16WDICT-ND	2.70	18.72	82.80	BAS16WDITR-ND	3,000	72.00/M
	75	1.0	75	.855	10	2.0	4.0	200	K	A	—	BAS16W-FDICT-ND◊	2.70	18.72	82.80	BAS16W-FDITR-ND◊	3,000	72.00/M
	100	15	120	1.0	100	5.0	50	200	K	A	—	BAS19WDICT-ND	3.38	23.76	108.00	BAS19WDITR-ND	3,000	97.00/M
	100	15	120	1.0	100	5.0	50	200	K	A	—	BAS19W-FDICT-ND◊	3.38	23.76	108.00	BAS19W-FDITR-ND◊	3,000	97.00/M
	150	15	200	1.0	100	5.0	50	200	K	A	—	BAS20WDICT-ND	3.38	23.76	108.00	BAS20WDITR-ND	3,000	97.00/M
	150	15	200	1.0	100	5.0	50	200	K	A	—	BAS20W-FDICT-ND◊	3.38	23.76	108.00	BAS20W-FDITR-ND◊	3,000	97.00/M
	200	15	250	1.0	100	5.0	50	200	K	A	—	BAS21WDICT-ND	3.38	23.76	108.00	BAS21WDITR-ND	3,000	97.00/M
	200	15	250	1.0	100	5.0	50	200	K	A	—	BAS21W-FDICT-ND◊	3.38	23.76	108.00	BAS21W-FDITR-ND◊	3,000	97.00/M
	75	2.5	75	.855	10	2.0	4.0	200	K	A	A	BAV70W-FDICT-ND◊	3.15	21.84	96.60	BAV70W-FDITR-ND◊	3,000	84.00/M
	75	2.5	75	.855	10	2.0	4.0	200	K/A	A	K	BAV99WDICT-ND	3.00	21.12	96.00	—	—	—
	75	2.5	75	.855	10	2.0	4.0	200	K/A	A	K	BAV99W-FDICT-ND◊	3.00	21.12	96.00	BAV99W-FDITR-ND◊	3,000	86.00/M
	85	.005	75	1.0	10	2.0	3.0§	200	A	K/A	K	BAV199WDICT-ND◊	2.00	14.40	72.00	BAV199WDITR-ND◊	3,000	68.00/M
	75	2.5	75	.855	10	2.0	4.0	200	A	K	K	BAW56WDICT-ND	3.38	23.76	108.00	—	—	—
	75	2.5	75	.855	10	2.0	4.0	200	A	K	K	BAW56W-FDICT-ND◊	3.38	23.76	108.00	BAW56W-FDITR-ND◊	3,000	97.00/M

§ Reverse Recovery Time @ µs ◊ ***RoHS Compliant***

(Continued)

High Speed Switching Diodes *(Cont.)*

Fig.	Peak Reverse Voltage VRWM (V)	Max. Rev. Current IR (µA)	VR (V)	Max. For. Voltage@ VF (V)	IF (mA)	Max. Capacitance C (pF)	Max. Rev. Recovery Time Trr (nS)	Power Dissipation Pd (mW)	Pinning 1	2	3	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing
2	75	2.5	75	1.0	100	2.0	4.0	200	K	A	—	MMBD4148W-FDICT-ND◊	3.30	22.88	101.20	MMBD4148W-FDITR-ND◊	3,000	88.00/M
	80	50	75	1.0	100	3.5	4.0	200	K	A	—	MMBD4448HWDICT-ND	3.30	22.88	101.20	MMBD4448HWDITR-ND	3,000	88.00/M
	80	50	75	1.0	100	3.5	4.0	200	K	A	—	MMBD4448HW-FDICT-ND◊	3.30	22.88	101.20	MMBD4448HW-FDITR-ND◊	3,000	88.00/M
	75	2.5	75	1.0	100	4.0	4.0	200	K	A	—	MMBD4448WDICT-ND	3.30	22.88	101.20	MMBD4448WDITR-ND	3,000	88.00/M
	75	2.5	75	1.0	100	4.0	4.0	200	K	A	—	MMBD4448W-FDICT-ND◊	3.30	22.88	101.20	MMBD4448W-FDITR-ND◊	3,000	88.00/M
3	85	2.0	75	1.0	50	1.5	4.0	150	K/A	A	A	BAV70TDICT-ND	2.63	18.20	80.50	BAV70TDITR-ND	3,000	70.00/M
	85	2.0	75	1.0	50	1.5	4.0	150	K/A	A	A	BAV70T-FDICT-ND◊	2.63	18.20	80.50	BAV70T-FDITR-ND◊	3,000	70.00/M
	85	2.0	75	1.0	50	1.5	4.0	150	A/K	A	K	BAV99T-FDICT-ND◊	3.00	20.80	92.00	BAV99T-FDITR-ND◊	3,000	80.00/M
	85	.005	75	1.0	10	—	3.0§	150	K	A	A	BAV170TDICT-ND	3.13	22.00	100.00	—	—	—
	85	.005	75	1.0	10	—	3.0§	150	K	A	A	BAV170T-FDICT-ND◊	3.13	22.00	100.00	BAV170T-FDITR-ND◊	3,000	90.00/M
	85	.005	75	1.0	10	—	3.0§	150	A/K	A	K	BAV199T-FDICT-ND◊	3.13	22.00	100.00	BAV199T-FDITR-ND◊	3,000	90.00/M
	85	2.0	75	1.0	50	1.5	4.0	150	A	K	K	BAW56TDICT-ND	2.81	19.80	90.00	BAW56TDITR-ND	3,000	81.00/M
	85	2.0	75	1.0	50	1.5	4.0	150	A	K	K	BAW56T-FDICT-ND◊	2.81	19.80	90.00	BAW56T-FDITR-ND◊	3,000	81.00/M
	85	.005	75	1.0	10	—	3.0§	150	A	K	K	BAW156TDICT-ND	3.13	22.00	100.00	BAW156TDITR-ND	3,000	90.00/M
	85	.005	75	1.0	10	—	3.0§	150	A	K	K	BAW156T-FDICT-ND◊	3.13	22.00	100.00	BAW156T-FDITR-ND◊	3,000	90.00/M
	80	0.1	70	1.0	100	3.5	4.0	150	A	K	K	MMBD4448HTADICT-ND	2.63	18.20	80.50	—	—	—
	80	0.1	70	1.0	100	3.5	4.0	150	A	K	K	MMBD4448HTA-FDICT-ND◊	2.63	18.20	80.50	MMBD4448HTA-FDITR-ND◊	3,000	70.00/M
	200	100	—	1.0	100	5.0	50	150	K	A	—	BAS21TDICT-ND	3.13	22.00	100.00	BAS21TDITR-ND	3,000	90.00/M
	200	0.1	—	1.0	100	5.0	50	150	K	A	—	BAS21T-FDICT-ND◊	3.13	22.00	100.00	BAS21T-FDITR-ND◊	3,000	90.00/M
	85	85	85	1.0	10	—	3.0§	150	K	A	—	BAS116TDICT-ND	2.81	19.80	90.00	BAS116TDITR-ND	3,000	81.00/M
	85	85	85	1.0	10	—	3.0§	150	K	A	—	BAS116T-FDICT-ND◊	2.81	19.80	90.00	BAS116T-FDITR-ND◊	3,000	81.00/M
	80	50	75	1.0	100	3.5	4.0	150	K	A	—	MMBD4448HTDICT-ND	2.63	18.20	80.50	MMBD4448HTDITR-ND	3,000	70.00/M
	80	50	75	1.0	100	3.5	4.0	150	K	A	—	MMBD4448HT-FDICT-ND◊	2.63	18.20	80.50	MMBD4448HT-FDITR-ND◊	3,000	70.00/M
4	80	50	75	.855	10	3.5	4.0	150	—	—	—	MMBD4448VDICT-ND	3.00	21.60	108.00	MMBD4448VDITR-ND	3,000	102.00/M
	75	50	75	.855	10	2.0	4.0	150	—	—	—	BAS16VDICT-ND	3.00	21.60	108.00	BAS16VDITR-ND	3,000	102.00/M

§ Reverse Recovery Time @ µs   ◊ *RoHS Compliant*

Fig.	Peak Reverse Voltage VRWM (V)	Max. Reverse Current IR (µA)	VR (V)	Max. Forward Voltage @ VF (V)	IF (mA)	Max. Capacitance C (pF)	Max. Reverse Recovery Time Trr (nS)	Power Dissipation Pd (mW)	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing
5	75	2.5	75	1.0	50	4.0	4.0	200	MMBD4448DWDICT-ND†	3.13	22.00	100.00	—	—	—
	75	2.5	75	1.0	50	4.0	4.0	200	MMBD4448DW-FDICT-ND†◊	3.13	22.00	100.00	MMBD4448DW-FDITR-ND†◊	3,000	90.00/M
6	75	5.0	75	1.0	10	4.0	4.0	500	1N4148DICT-ND	1.20	6.75	24.38	1N4148DITR-ND	10,000	15.00/M
7	75	5.0	75	1.0	10	4.0	4.0	500	LL4148DICT-ND	2.00	13.00	54.00	LL4148DITR-ND	10,000	34.00/M
	75	5.0	75	1.0	100	4.0	4.0	500	LL4448DICT-ND	2.00	13.00	54.00	LL4448DITR-ND	2,500	47.00/M
8	75	2.5	75	.855	10	2.0	4.0	400	1N4148WDICT-ND	3.00	20.80	92.00	1N4148WDITR-ND	3,000	80.00/M
	75	2.5	75	.855	10	2.0	4.0	400	1N4148W-FDICT-ND◊	3.00	20.80	92.00	1N4148W-FDITR-ND◊	3,000	80.00/M
	75	2.5	75	.855	10	4.0	4.0	400	1N4448W-FDICT-ND◊	3.00	20.80	92.00	1N4448W-FDITR-ND◊	3,000	80.00/M
	75	1.0	75	1.0	50	2.0	4.0	400	BAV16W-FDICT-ND◊	3.00	20.80	92.00	BAV16W-FDITR-ND◊	3,000	80.00/M
	100	0.1	120	1.0	100	5.0	50	250	BAV19W-FDICT-ND◊	3.13	22.00	100.00	BAV19W-FDITR-ND◊	3,000	90.00/M
	150	0.1	150	1.0	100	5.0	50	250	BAV20WDICT-ND	3.13	22.00	100.00	—	—	—
	150	0.1	150	1.0	100	5.0	50	250	BAV20W-FDICT-ND◊	3.13	22.00	100.00	BAV20W-FDITR-ND◊	3,000	90.00/M
	200	0.1	250	1.0	100	5.0	50	250	BAV21W-FDICT-ND◊	3.13	22.00	100.00	BAV21W-FDITR-ND◊	3,000	90.00/M
	130	0.005	75	1.0	10	5.0	3.0§	250	BAV116WDICT-ND	2.81	19.80	90.00	—	—	—
	130	0.005	75	1.0	10	5.0	3.0§	250	BAV116W-FDICT-ND◊	2.81	19.80	90.00	BAV116W-FDITR-ND◊	3,000	81.00/M
	300	100	240	1.0	100	5.0	50	400	BAV3004WDICT-ND	3.60	27.00	144.00	BAV3004WDITR-ND	3,000	135.00/M
	300	100	240	1.0	100	5.0	50	400	BAV3004W-FDICT-ND◊	3.60	27.00	144.00	BAV3004W-FDITR-ND◊	3,000	135.00/M
9	80	5.0	75	.855	10	3.5	4.0	200	1N4448HWS-FDICT-ND◊	3.00	20.80	92.00	1N4448HWS-FDITR-ND◊	3,000	80.00/M
	75	1.0	75	.855	10	2.0	4.0	200	1N4148WSDICT-ND	3.00	20.80	92.00	1N4148WSDITR-ND	3,000	80.00/M
	75	1.0	75	.855	10	2.0	4.0	200	1N4148WS-FDICT-ND◊	3.00	20.80	92.00	1N4148WS-FDITR-ND◊	3,000	80.00/M
	75	2.5	75	1.0	100	4.0	4.0	200	1N4448WS-FDICT-ND◊	3.00	20.80	92.00	1N4448WS-FDITR-ND◊	3,000	80.00/M
	75	1.0	75	1.0	50	2.0	4.0	200	BAV16WSDICT-ND	3.00	20.80	92.00	BAV16WSDITR-ND	3,000	80.00/M
	75	1.0	75	1.0	50	2.0	4.0	200	BAV16WS-FDICT-ND◊	3.00	20.80	92.00	BAV16WS-FDITR-ND◊	3,000	80.00/M
	100	0.1	120	1.0	100	5.0	50	200	BAV19WS-FDICT-ND◊	3.00	21.60	108.00	BAV19WS-FDITR-ND◊	3,000	102.00/M
	150	0.1	150	1.0	100	5.0	50	200	BAV20WSDICT-ND	3.00	21.60	108.00	BAV20WSDITR-ND	3,000	102.00/M
	150	0.1	150	1.0	100	5.0	50	200	BAV20WS-FDICT-ND◊	3.00	21.60	108.00	BAV20WS-FDITR-ND◊	3,000	102.00/M
	200	0.1	250	1.0	100	5.0	50	200	BAV21WS-FDICT-ND◊	3.00	21.60	108.00	BAV21WS-FDITR-ND◊	3,000	102.00/M
10	80	0.1	80	1.0	100	3.0	4.0	150	1N4448HWT-FDICT-ND◊	2.81	19.80	90.00	1N4448HWT-FDITR-ND◊	3,000	81.00/M
	80	1	80	1.0	50	2.0	4.0	150	1N4148WT-FDICT-ND◊	2.81	19.80	90.00	1N4148WT-FDITR-ND◊	3,000	81.00/M
11	80	50	75	1.0	100	3.0	4.0	250	1N4448HLPDICT-ND◊	4.00	28.80	144.00	1N4448HLPDITR-ND◊	3,000	136.00/M
	75	50	75	1.0	50	2.0	4.0	250	BAS16LPDICT-ND◊	4.00	28.80	144.00	BAS16LPDITR-ND◊	3,000	136.00/M

† Dual Isolated Single   § Reverse Recovery Time @ µs   ◊ *RoHS Compliant*

Ultra Fast Switching Rectifiers

Operating Temperature: -65°C ~ 150°C

Fig. 1 — DO-41

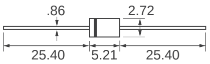

Fig. 2 — D2PAK

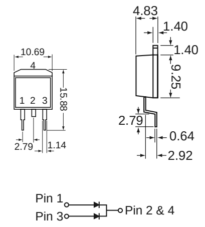

Fig. 3 — SMA

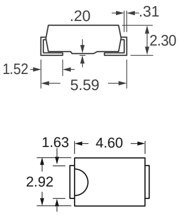

Fig. 4 — SMB

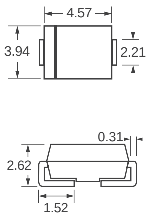

Fig. 5 — SMC

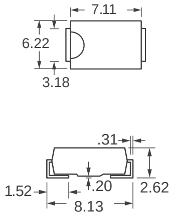

Fig.	Package	Maximum Average Rectified Current (A)	Maximum Peak Reverse Voltage (V)	Maximum Surge Current 8.3ms (A)	Maximum Reverse Current @ 25°C (µA)	Maximum Peak Forward Voltage (V)	Maximum Reverse Recovery Time (nS)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel	
									1	10	100		Size	Pricing
1	DO41	1.0	50	30	5.0	1.0	50	UF1001DICT-ND	.45	.31	.22	UF1001DITR-ND	5,000	74.00/M
			100	30	5.0	1.0	50	UF1002DICT-ND	.39	.29	.21	UF1002DITR-ND	5,000	78.00/M
			200	30	5.0	1.0	50	UF1003DICT-ND	.43	.32	.23	UF1003DITR-ND	5,000	87.00/M
			400	30	5.0	1.3	50	UF1004DICT-ND	.50	.37	.26	UF1004DITR-ND	5,000	100.00/M
			600	30	5.0	1.7	75	UF1005DICT-ND	.44	.34	.25	UF1005DITR-ND	5,000	109.00/M
			800	30	5.0	1.7	75	UF1006DICT-ND	.52	.40	.29	UF1006DITR-ND	5,000	128.00/M
			1000	30	5.0	1.7	75	UF1007DICT-ND	.48	.38	.29	UF1007DITR-ND	5,000	133.00/M
2	D2PAK	16	100	100	5.0	0.975	30	MURB1610CT-T-FDICT-ND◊	2.40	2.00	1.68	MURB1610CT-T-FDITR-ND◊	800	960.00
			200	100	5.0	0.975	30	MURB1620CT-T-FDICT-ND◊	2.55	2.13	1.79	MURB1620CT-T-FDITR-ND◊	800	1020.00
3	SMA	1.0	50	30	5.0	0.9	25	ES1A-FDICT-ND◊	.68	.54	.41	ES1A-FDITR-ND◊	5,000	189.00/M
			100	30	2.0	0.9	25	ES1B-FDICT-ND◊	.70	.56	.42	ES1B-FDITR-ND◊	5,000	196.00/M
			150	30	5.0	0.98	20	ES1CDICT-ND	.73	.58	.44	ES1CDITR-ND	5,000	203.00/M
			150	30	5.0	0.98	20	ES1C-FDICT-ND◊	.73	.58	.44	ES1C-FDITR-ND◊	5,000	203.00/M
			200	30	2.0	0.9	25	ES1DDICT-ND	.60	.48	.36	—	—	—
			200	30	2.0	0.9	25	ES1D-FDICT-ND◊	.68	.54	.41	ES1D-FDITR-ND◊	5,000	203.00/M
			50	30	5.0	1.0	50	US1A-FDICT-ND◊	.55	.44	.33	US1A-FDITR-ND◊	5,000	154.00/M
			100	30	5.0	1.0	50	US1B-FDICT-ND◊	.60	.48	.36	US1B-FDITR-ND◊	5,000	168.00/M
			200	30	5.0	1.0	50	US1DDICT-ND	.65	.52	.39	US1DDITR-ND	5,000	182.00/M
			200	30	5.0	1.0	50	US1D-FDICT-ND◊	.65	.52	.39	US1D-FDITR-ND◊	5,000	182.00/M
			400	30	5.0	1.3	50	US1GDICT-ND	.70	.56	.42	US1GDITR-ND	5,000	196.00/M
			400	30	5.0	1.3	50	US1G-FDICT-ND◊	.70	.56	.42	US1G-FDITR-ND◊	5,000	196.00/M
			600	30	5.0	1.7	75	US1JDICT-ND	.60	.48	.36	US1JDITR-ND	5,000	191.00/M
			600	30	5.0	1.7	75	US1J-FDICT-ND◊	.68	.54	.41	US1J-FDITR-ND◊	5,000	203.00/M
			800	30	5.0	1.7	75	US1K-FDICT-ND◊	.72	.58	.44	US1K-FDITR-ND◊	5,000	216.00/M
			1000	30	5.0	1.7	75	US1M-FDICT-ND◊	.77	.62	.46	US1M-FDITR-ND◊	5,000	230.00/M
		2.0	50	50	5.0	0.92	25	ES2AA-FDICT-ND◊	.72	.58	.44	ES2AA-FDITR-ND◊	5,000	216.00/M
			100	50	5.0	0.92	25	ES2BA-FDICT-ND◊	.77	.62	.46	ES2BA-FDITR-ND◊	5,000	230.00/M
			150	50	5.0	0.92	25	ES2CA-FDICT-ND◊	.81	.65	.49	ES2CA-FDITR-ND◊	5,000	243.00/M
			200	50	5.0	0.92	25	ES2DA-FDICT-ND◊	.86	.69	.52	ES2DA-FDITR-ND◊	5,000	257.00/M
4	SMB	1.0	200	40	2.0	0.875	25	MURS120-FDICT-ND◊	.68	.54	.41	MURS120-FDITR-ND◊	3,000	214.00/M
			400	35	5.0	1.25	50	MURS140DICT-ND	.60	.48	.36	MURS140DITR-ND	3,000	200.00/M
			400	35	5.0	1.25	50	MURS140-FDICT-ND◊	.68	.54	.41	MURS140-FDITR-ND◊	3,000	214.00/M
			600	35	5.0	1.25	50	MURS160-FDICT-ND◊	.72	.58	.44	MURS160-FDITR-ND◊	3,000	228.00/M
		2.0	50	50	5.0	0.9	25	ES2ADICT-ND	.64	.52	.39	ES2ADITR-ND	3,000	213.00/M
			50	50	5.0	0.9	25	ES2A-FDICT-ND◊	.72	.58	.44	ES2A-FDITR-ND◊	3,000	228.00/M
			100	50	5.0	0.9	25	ES2B-FDICT-ND◊	.77	.62	.46	ES2B-FDITR-ND◊	3,000	242.00/M
			150	50	5.0	0.9	25	ES2CDICT-ND	.72	.58	.44	ES2CDITR-ND	3,000	239.00/M
			150	50	5.0	0.9	25	ES2C-FDICT-ND◊	.81	.65	.49	ES2C-FDITR-ND◊	3,000	257.00/M
			200	50	5.0	0.9	25	ES2D-FDICT-ND◊	.86	.69	.52	ES2D-FDITR-ND◊	3,000	271.00/M
		3.0	50	100	10	0.9	25	ES3ABDICT-ND	.89	.71	.54	ES3ABDITR-ND	3,000	351.00/M
			50	100	10	0.9	25	ES3AB-FDICT-ND◊	1.01	.88	.68	ES3AB-FDITR-ND◊	3,000	359.00/M
			100	100	10	0.9	25	ES3BBDICT-ND	.84	.67	.51	—	—	—
			100	100	10	0.9	25	ES3BB-FDICT-ND◊	.96	.83	.64	ES3BB-FDITR-ND◊	3,000	339.00/M
			150	100	10	0.9	25	ES3CB-FDICT-ND◊	1.01	.88	.68	ES3CB-FDITR-ND◊	3,000	359.00/M
			200	100	10	0.9	25	ES3DB-FDICT-ND◊	1.20	1.04	.80	ES3DB-FDITR-ND◊	3,000	426.00/M
5	SMC	3.0	50	100	10	0.9	25	ES3ADICT-ND	.89	.71	.54	ES3ADITR-ND	3,000	351.00/M
			50	100	10	0.9	25	ES3A-FDICT-ND◊	1.01	.88	.68	ES3A-FDITR-ND◊	3,000	359.00/M
			100	100	10	0.9	25	ES3B-FDICT-ND◊	.96	.83	.64	ES3B-FDITR-ND◊	3,000	339.00/M
			150	100	10	0.9	25	ES3C-FDICT-ND◊	1.01	.88	.68	ES3C-FDITR-ND◊	3,000	359.00/M
			200	100	10	0.9	25	ES3D-FDICT-ND◊	1.20	1.04	.80	ES3D-FDITR-ND◊	3,000	426.00/M

◊ *RoHS Compliant*

Alternistor Triacs
8 to 40 Amps

General Description: Teccor's Alternistor Triac has been specifically designed for applications which are required to switch highly inductive loads.
To accomplish this, a special chip has been designed which effectively offers the same performance as two thyristors (SCRs) wired inverse parallel (back-to-back), hence, the alternistor has better turn-off behavior than a standard triac. All Alternistors have glass passivated junctions to ensure long term reliability and parameter stability.

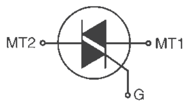

TO-220AB - Isolated

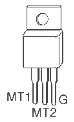

TO-218X

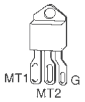

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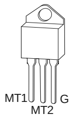

TO-220AB - Non-Isolated

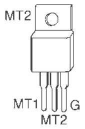

D2-PAK

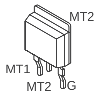

TO-251 V-PAK

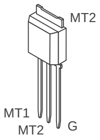

TO-252 D-PAK

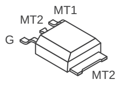

Package	I_T RMS (A)	V_{DRM} (V)	I_{GT} (mA)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel† Size	Pricing
				Isolated ***(File E71639)***					
TO-220AB	8	400	35	Q4008LH4-ND	1.26	1.12	1.01	—	—
		600		Q6008LH4-ND	1.40	1.24	1.12	—	—
		800		Q8008LH4-ND	1.67	1.48	1.34	—	—
TO-220AB	12	400	50	Q4012LH5-ND	1.46	1.30	1.17	—	—
		600		Q6012LH5-ND	1.62	1.44	1.30	—	—
		800		Q8012LH5-ND	1.94	1.72	1.55	—	—
TO-220AB	15	800	80	Q8015L6-ND‡	2.77	2.46	2.22	—	—
TO-220AB	16	400	20	Q4016LH3-ND	1.80	1.60	1.44	—	—
		600		Q6016LH3-ND	2.00	1.78	1.61	—	—
		200	35	Q2016LH4-ND	1.58	1.40	1.26	—	—
		600		Q6016LH4-ND	1.94	1.72	1.55	—	—
		800		Q8016LH4-ND	2.30	2.04	1.84	—	—
		400	80	Q4016LH6-ND	1.64	1.46	1.32	—	—
		600		Q6016LH6-ND	1.82	1.62	1.46	—	—
		800		Q8016LH6-ND	2.16	1.92	1.73	—	—
TO-220AB	25	200	80	Q2025L6-ND	2.21	1.96	1.77	—	—
		400		Q4025L6-ND	2.43	2.16	1.95	—	—
		600		Q6025L6-ND	2.70	2.40	2.16	—	—
		800		Q8025L6-ND	3.22	2.86	2.58	—	—
TO-218AC	25	800	80	Q8025K6-ND	6.28	5.58	5.03	—	—
TO-218X	25	400	80	Q4025J6-ND	5.24	4.66	4.20	—	—
		800		Q8025J6-ND	6.91	6.14	5.53	—	—
TO-220AB	30	600	50	Q6030LH5-ND	2.99	2.66	2.40	—	—
TO-218X	40	200	100	Q2040J7-ND	6.37	5.66	5.10	—	—
		400		Q4040J7-ND	7.00	6.22	5.60	—	—
		600		Q6040J7-ND	7.76	6.90	6.21	—	—
		800		Q8040J7-ND	9.23	8.20	7.38	—	—
TO-218AC	40	200	100	Q2040K7-ND	5.76	5.12	4.61	—	—
		400		Q4040K7-ND	6.35	5.64	5.08	—	—
		600		Q6040K7-ND	7.02	6.24	5.62	—	—
		800		Q8040K7-ND	8.35	7.42	6.68	—	—

Package	I_T RMS (A)	V_{DRM} (V)	I_{GT} (mA)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel† Size	Pricing
				Non-Isolated					
TO-251 V-PAK	6	600	10	Q6006VH3-ND	.97	.86	.78	—	—
TO-251 V-PAK	8	400	10	Q4008VH3-ND	.90	.80	.72	—	—
D2-PAK	8	600	35	Q6008NH4RPCT-ND*	2.50	2.05	1.73	500	544.00
		800		Q8008NH4RPCT-ND*	2.96	2.44	2.06	500	646.00
TO-252 D-PAK	8	600	10	Q6008DH3RPCT-ND*	1.04	.92	.83	2500	1610.00
D2-PAK	12	400	50	Q4012NH5RPCT-ND*	2.61	2.15	1.81	500	569.50
		600		Q6012NH5RPCT-ND*	2.89	2.37	2.00	500	629.00
		800		Q8012NH5RPCT-ND*	3.43	2.82	2.38	500	748.00
TO-220AB	15	600	80	Q6015R6-ND‡	2.05	1.82	1.64	—	—
TO-220AB	16	600	20	Q6016RH3-ND	1.80	1.60	1.44	—	—
		400	35	Q4016RH4-ND	1.58	1.40	1.26	—	—
		200	80	Q2016RH6-ND	1.35	1.20	1.08	—	—
		600		Q6016RH6-ND	1.64	1.46	1.32	—	—
D2-PAK	16	400	20	Q4016NH3RPCT-ND*	3.20	2.63	2.22	500	697.00
		600		Q6016NH3RPCT-ND*	3.55	2.92	2.46	500	773.50
		800		Q8016NH3RPCT-ND*	4.25	3.49	2.95	500	926.50
		600	35	Q6016NH4RPCT-ND*	3.43	2.82	2.38	500	748.00
		800		Q8016NH4RPCT-ND*	4.10	3.36	2.84	500	892.50
		600	80	Q6016NH6RPCT-ND*	3.24	2.66	2.25	500	705.50
		800		Q8016NH6RPCT-ND*	3.86	3.17	2.68	500	841.50
TO-220AB	25	200	80	Q2025R6-ND	1.98	1.76	1.59	—	—
		400		Q4025R6-ND	2.18	1.94	1.75	—	—
		600		Q6025R6-ND	2.43	2.16	1.95	—	—
		800		Q8025R6-ND	2.88	2.56	2.31	—	—
D2-PAK	25	400	80	Q4025NH6RPCT-ND*	4.33	3.56	3.00	—	—

‡ Not recommended for new design * Cut Tape † For Tape and Reel part number, change CT-ND to TR-ND.

Logic Triacs (1.0-8.0 Amps) and Gated Triacs (1-25 Amps)

ISOLATED

Plastic TO-92

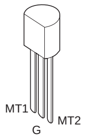

Thermotab TO-220AB

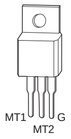

TO-3 Base / FASTPAK

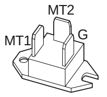

NON-ISOLATED

TO-202AB

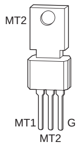

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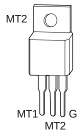

TO-251AA

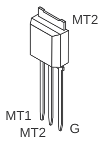

SMT TO-252AA

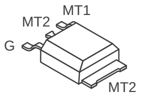

D2 PAK

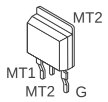

I_T RMS (A)	V_{DRM} (V)	Package	I_{GT} (mA)	I_{DRM} @25°C (mA)	PG (AV) (W)	t_{gt} (μsec.)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel † Size	Pricing
							Logic Triacs (1.0-8.0 Amps), Isolated					
1.0	200	TO-92	3	.01	0.2	2.5	L201E3-ND	.65	.58	.53	—	—
	400						L401E3-ND	.70	.62	.56	—	—
	600						L601E3-ND	.79	.70	.63	—	—
	200	TO-92	5	.01	0.2	2.5	L201E5-ND	.63	.56	.51	—	—
	400						L401E5-ND	.65	.58	.53	—	—
	600						L601E5-ND	.74	.66	.60	—	—
4.0	200	TO-220AB	3	.01	0.3	2.5	L2004L3-ND	1.17	1.04	.94	—	—
	400						L4004L3-ND	1.22	1.08	.98	—	—
	600						L6004L3-ND	1.40	1.24	1.12	—	—
8.0	200	TO-220AB	5	.02	0.4	2.5	L2008L6-ND	1.26	1.12	1.01	—	—
	400			.02			L4008L6-ND	1.33	1.18	1.07	—	—
	600			.02			L6008L6-ND	1.51	1.34	1.21	—	—

(Continued)

Logic Triacs (1.0-8.0 Amps) and Gated Triacs (1-25 Amps) *(Cont.)*

I_T RMS (A)	V_{DRM} (V)	Package	I_{GT} (mA)	I_{DRM} @25°C (mA)	PG (AV) (W)	t_{gt} (µsec.)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel † Size	Tape & Reel † Pricing
Logic Triacs (1.0-8.0 Amps), Non-Isolated												
4.0	200	TO-202AB	3	.01	0.3	2.5	L2004F31-ND	.92	.82	.74	—	—
	400			.01			L4004F31-ND	.97	.86	.78	—	—
	600			.01			L6004F31-ND	1.10	.98	.89	—	—
	200	TO-202AB	5	.01	0.3	2.5	L2004F51-ND	.88	.78	.71	—	—
	400			.01			L4004F51-ND	.92	.82	.74	—	—
	600			.01			L6004F51-ND	1.06	.94	.85	—	—
	400	TO-251AA	3	.01	0.3	2.8	L4004V3-ND	.83	.74	.67	—	—
	600						L6004V3-ND	.95	.84	.76	—	—
	400	TO-251AA	5	.01	0.3	3.0	L4004V5-ND	.79	.70	.63	—	—
	600						L6004V5-ND	.90	.80	.72	—	—
	600	TO-252AA	3	.01	0.3	2.8	L6004D3CT-ND*	1.68	1.38	1.17	2,500	731.00/M
	400	TO-252AA	5	.01	0.3	3.0	L4004D5CT-ND*	1.40	1.16	.98	2,500	612.00/M
	600						L6004D5CT-ND*	1.60	1.32	1.11	2,500	697.00/M
6.0	400	TO-252AA	5	.02	0.4	3.0	L4006D5CT-ND*	1.56	1.28	1.08	2,500	680.00/M
	600						L6006D5CT-ND*	1.76	1.44	1.22	2,500	765.00/M
8.0	400	TO-252AA	5	.02	0.4	3.0	L4008D6CT-ND*	1.60	1.32	1.11	2,500	697.00/M
	600						L6008D6CT-ND*	1.83	1.51	1.27	2,500	799.00/M
Gated Triacs (1.0-35 Amps), Isolated												
1.0	200	TO-92	10	.02	0.2	2.5	Q201E3-ND	.56	.50	.45	—	—
	400						Q401E3-ND	.63	.56	.51	—	—
	600						Q601E3-ND	.92	.82	.74	—	—
4.0	200	TO-220AB	10	.05	0.3	2.5	Q2004L3-ND	.97	.86	.78	—	—
	400						Q4004L3-ND	1.06	.94	.85	—	—
	600						Q6004L3-ND	1.26	1.12	1.01	—	—
8.0	200	TO-220AB	25	.05	0.5	3.0	Q2008L4-ND	1.15	1.02	.92	—	—
	400		25				Q4008L4-ND	1.26	1.12	1.01	—	—
	600		50				Q6008L5-ND	1.40	1.24	1.12	—	—
10.0	200	TO-220AB	50	.05	0.5	3.0	Q2010L5-ND	1.24	1.10	.99	—	—
	400		50	.05			Q4010L5-ND	1.37	1.22	1.10	—	—
	400		25	.05			Q4010L4-ND	1.44	1.28	1.16	—	—
	600		50	.05			Q6010L5-ND	1.62	1.44	1.30	—	—
	600		25	.05			Q6010L4-ND	1.71	1.52	1.37	—	—
	800		25	.01			Q8010L4-ND	1.98	1.76	1.59	—	—
15.0	200	TO-220AB	50	.05	0.5	4.0	Q2015L5-ND	1.49	1.32	1.19	—	—
	400						Q4015L5-ND	1.64	1.46	1.32	—	—
	600						Q6015L5-ND	1.94	1.72	1.55	—	—
25	600	TO-3	50	.1	0.5	3.0	Q6025P5-ND	7.79	6.92	6.23	—	—
35	600						Q6035P5-ND	7.79	6.92	6.23	—	—
Gated Triacs (1.0-15 Amps), Non-Isolated												
4.0	200	TO-202AB	10	.05	0.3	2.5	Q2004F31-ND	.77	.68	.62	—	—
	400						Q4004F31-ND	.83	.74	.67	—	—
	600						Q6004F31-ND	.99	.88	.80	—	—
	400	TO-251AA	10	.05	0.3	2.5	Q4004V3-ND	.77	.68	.62	—	—
	600						Q6004V3-ND	.90	.80	.72	—	—
	400	TO-252AA	10	.05	0.3	2.5	Q4004D3CT-ND*	1.40	1.16	.98	2,500	612.00/M
	600						Q6004D3CT-ND*	1.68	1.38	1.17	2,500	731.00/M
6.0	400	D2-PAK	25	.05	0.5	3.0	Q4006N4RPCT-ND*	2.07	1.70	1.44	500	450.50
	600		50				Q6006N5RPCT-ND*	2.30	1.89	1.60	500	501.50
	800		50				Q8006N5RPCT-ND*	2.65	2.18	1.84	500	578.00
8.0	400	TO-220AB	25	.05	0.5	3.0	Q4008R4-ND	1.15	1.02	.92	—	—
	600		50				Q6008R5-ND	1.28	1.14	1.03	—	—
	200	TO-202AB	25	.05	0.5	3.0	Q2008F41-ND	.90	.80	.72	—	—
	400	D2-PAK	25	.05	0.5	3.0	Q4008N4RPCT-ND*	2.22	1.83	1.54	—	—
	600		50			3.0	Q6008N5RPCT-ND*	2.50	2.05	1.73	500	544.00
	800		50				Q8008N5RPCT-ND*	2.89	2.37	2.00	500	629.00
10.0	400	TO-220AB	50	.05	0.5	3.0	Q4010R5-ND	1.26	1.12	1.01	—	—
	400		25				Q4010R4-ND	1.33	1.18	1.07	—	—
	600		50				Q6010R5-ND	1.49	1.32	1.19	—	—
	600		25				Q6010R4-ND	1.58	1.40	1.26	—	—
	800		25				Q8010R4-ND	1.82	1.62	1.46	—	—
	400	D2-PAK	25	.05	0.5	3.0	Q4010N4RPCT-ND*	2.57	2.12	1.79	500	561.00
	400		50	.05			Q4010N5RPCT-ND*	2.42	1.99	1.68	500	527.00
	600		25	.05			Q6010N4RPCT-ND*	3.04	2.50	2.11	500	663.00
	600		50	.05			Q6010N5RPCT-ND*	2.89	2.37	2.00	—	—
	800		25	.1			Q8010N4RPCT-ND*	3.51	2.88	2.43	500	765.00
	800		50	.1			Q8010N5RPCT-ND*	3.32	2.72	2.30	500	722.50
15.0	200	TO-220AB	50	.05	0.5	4.0	Q2015R5-ND	1.37	1.22	1.10	—	—
	400						Q4015R5-ND	1.51	1.34	1.21	—	—
	600						Q6015R5-ND	1.80	1.60	1.44	—	—
	600	D2-PAK	50	.05	0.5	4.0	Q6015N5RPCT-ND*	3.43	2.82	2.38	—	—
	800			.1			Q8015N5RPCT-ND*	3.98	3.27	2.76	500	867.00
25.0	400	D2-PAK	50	.1	0.5	4.0	Q4025N5RPCT-ND*	3.74	3.08	2.60	500	816.00
	600						Q6025N5RPCT-ND*	4.41	3.62	3.06	500	960.50
	800						Q8025N5RPCT-ND*	5.07	4.16	3.51	500	1105.00

* Cut Tape † For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Triacs (0.8-1.0 Amps)

$I_{T\,RMS}$ (A)	V_{DRM} (V)	I_{GT} (mA)	I_{DRM} @25°C (mA)	V_{TM} @25°C (V)	V_{GT} @25°C (V)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,500
							Surface Mount Triacs					
0.8	400	10	0.02	1.6	2.0	15.0	Q4X3CT-ND	1.01	.84	.71	Q4X3TR-ND	442.00/M
1.0	400						Q4N3CT-ND	1.21	1.00	.84	Q4N3TR-ND	527.00/M
1.0	600						Q6N3CT-ND	1.44	1.19	1.00	Q6N3TR-ND	629.00/M
							Sensitive Gate Surface Mount Triacs					
0.8	400	3	0.01	1.6	2.0	5.0	L4X3CT-ND	1.21	1.00	.84	L4X3TR-ND	527.00/M
	600	3				5.0	L6X3CT-ND	1.19	.94	.90	L6X3TR-ND	612.00/M
	400	5				10.0	L4X5CT-ND	1.17	.96	.81	L4X5TR-ND	510.00/M

COMPAK

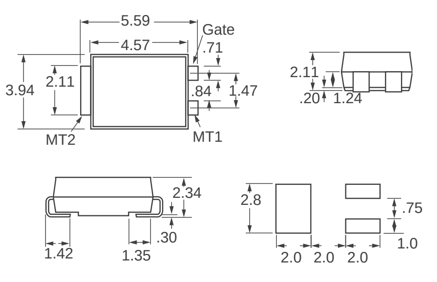

Bilateral Trigger Diacs HT and ST Series

General Description: The diac semiconductor is a full-wave or bi-directional thyristor. It is triggered from a blocking-to-conduction state for either polarity of applied voltage whenever the amplitude of applied voltage exceeds the breakover voltage rating of the diac.
The line of diacs features glass passivated junctions to insure long term device reliability and parameter stability. Glass offers a rugged, reliable barrier against junction contamination.

Specifications: • Maximum Ratings, Absolute-Maximum Values • Maximum Trigger Firing Capacitance – 0.1µF; Device dissipation (at T_A = -40°C ~ 40°C) – 250mW; Derate Above 40°C – 3.6mW/°C • Temperature Ranges: Storage -40°C ~ 125°C; Operating (Junction) -40°C ~ 125°C • Thermal Resistance: Junction to Ambient ($R_{\theta JA}$) = 278°C/W (DO-35); Junction to Lead ($R_{\theta JL}$) = 100°C/W (DO-35); 65°C/W (DO-214AA) based on maximum lead temperature of 85°C (DO-35) and 90°C (DO-214AA)

DO-35

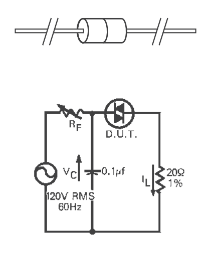

DO-214AA

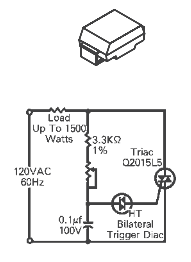

$V_{(BO)}$ (V) Min.	Max.	$V_{(BO)}$ Symmetry (V) Max.	Dynamic Breakback Voltage (V)	Digi-Key Part No.	Pricing 1	10	100	Tape & Reel † Size	Pricing
				HT Series — DO-35					
27	37	3	10	HT32-ND	.16	1.40	12.60	—	—
35	45	3	10	HT40-ND	.14	1.20	10.80	—	—
30	40	3	10	HT35-ND	.14	1.20	10.80	—	—
28	36	4	7	HT32A-ND	.18	1.60	14.40	—	—
30	34	2	7	HT32B-ND	.23	2.00	18.00	—	—
32	36	2	10	HT34B-ND	.23	2.00	18.00	—	—
				ST Series — DO-214AA					
32	36	2	10	ST-34BCT-ND*	.86	7.04	59.40	2,500	352.00/M
30	40	3	10	ST-35CT-ND*	.55	4.48	37.80	2,500	238.00/M
32	40	2	7	ST-36ACT-ND*	.74	6.08	51.30	2,500	323.00/M
34	38	2	10	ST-36BCT-ND*	.86	7.04	59.40	2,500	374.00/M
35	45	3	10	ST-40CT-ND*	.55	4.48	37.80	2,500	238.00/M

* Cut Tape † For Tape and Reel part number, change CT-ND to TR-ND.

Sidac

General Description: The Sidac is a silicon bilateral voltage triggered switch with greater power-handling capabilities than standard diacs. Upon application of a voltage exceeding the Sidac breakover voltage point, the Sidac switches on through a negative resistance region to a low on-state voltage. Conduction will continue until the current is interrupted or drops below the minimum holding current of the device. **Applications:** • High voltage lamp ignitors • Natural gas ignitors • Gas oil ignitors • High voltage power supplies • Xenon ignitors • Over voltage protector • Pulse generators • Fluorescent lighting ignitors • HID lighting ignitors **Features:** • AC circuit oriented • Glass passivated junctions • High surge current capability **General Notes:** • All measurements are made at 60Hz with a resistive load at an ambient temperature of 25°C unless otherwise specified • Storage temperature range (TS) is -65°C ~ 150°C • Junction temperature range (TJ) is -40°C ~ 110°C • Lead solder temperature is a maximum of 230°C for 10 seconds maximum; ≥ 1/16" (1.59mm) from case.

Fig.	Package	$I_{T(RMS)}$ (A)	V_{DRM} (V)	V_{BO} Min.	Max.	I_{DRM} (µA)	I_{BO} (µA)	Digi-Key Part No.	Price Each 1	10	100	250	500	1,000
1	TO-92	1.0	±90	95	113	5	10	K1050E70-ND	.47	.42	.38	.32	.28	.27
			±90	104	118	5	10	K1100E70-ND	.50	.44	.40	.33	.29	.28
			±90	110	125	5	10	K1200E70-ND	.50	.44	.40	.33	.29	.28
			±90	120	138	5	10	K1300E70-ND	.50	.44	.40	.33	.29	.28
			±90	130	146	5	10	K1400E70-ND	.52	.46	.42	.35	.30	.29
			±90	140	170	5	10	K1500E70-ND	.52	.46	.42	.35	.30	.29
			±180	190	215	5	10	K2000E70-ND	.59	.52	.47	.39	.34	.33
			±180	205	230	5	10	K2200E70-ND	.59	.52	.47	.39	.34	.33
			±190	220	250	5	10	K2400E70-ND	.63	.56	.51	.42	.37	.35
			±190	240	280	5	10	K2500E70-ND	.63	.56	.51	.42	.37	.35
2	TO-202AB (Non-Isolated)	1.0	±180	190	215	5	10	K2000F1-ND	.83	.74	.67	.56	.49	.47
			±180	205	230	5	10	K2200F1-ND	.83	.74	.67	.56	.49	.47
			±190	220	250	5	10	K2400F1-ND	.88	.78	.71	.59	.51	.49
			±190	240	280	5	10	K2500F1-ND	.88	.78	.71	.59	.51	.49
			±190	270	330	5	10	K3000F1-ND	.97	.86	.78	.65	.56	.54

Fig. 1

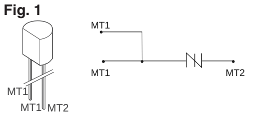

Fig. 2

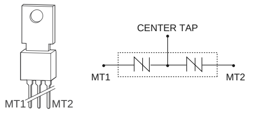

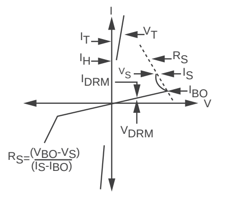

Silicon Rectifiers with Glass Passivated

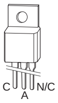

Package	$I_{T\,RMS}$ (A)	V_{RRM} (V)	I_{FSM} (A)	V_{FM} (V)	Digi-Key Part No.	Price Each 1	10	100	250	500	1,000
TO-220AB (Isolated)	20	400	300	1.6	D4020L-ND	1.33	1.18	1.07	.89	.77	.74
	20	600	300	1.6	D6020L-ND	1.40	1.24	1.12	.93	.81	.78
	25	400	350	1.6	D4025L-ND	1.60	1.42	1.28	1.07	.93	.89
	25	600	350	1.6	D6025L-ND	1.69	1.50	1.35	1.13	.98	.94

Sensitive Gate Surface Mount SCRs

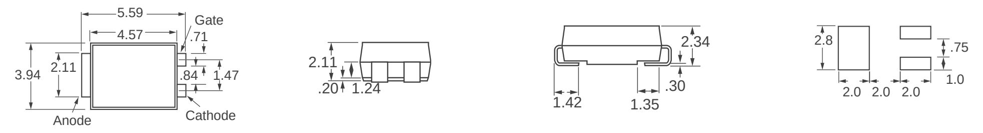

$I_{T\,RMS}$ (A)	V_{DRM} V_{RRM} (V)	Package	I_{GT} (µA)	I_{DRM} I_{RRM} @25°C (µA)	V_{TM} @25°C (V)	V_{GT} @25°C (V)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	250	Digi-Key Part No.	Tape & Reel Pricing 2,500
0.8	200	COMPAK	200	2.0	1.7	0.8	5.0	S2SCT-ND	.78	.64	.54	.46	S2STR-ND	340.00/M
	400							S4SCT-ND	.86	.71	.60	.51	S4STR-ND	374.00/M
	600							S6SCT-ND	1.09	.90	.76	.65	S6STR-ND	476.00/M
	200	COMPAK	50	2.0	1.7	0.8	5.0	S2S2CT-ND	.90	.74	.63	.53	S2S2TR-ND	391.00/M
	400							S4S2CT-ND	.98	.80	.68	.58	S4S2TR-ND	425.00/M
	600							S6S2CT-ND	1.21	1.00	.84	.72	S6S2TR-ND	527.00/M

Sensitive Gate (0.8-10 Amps) and Non-Sensitive Gate (1-70 Amps) SCRs

Thyristor SCR semi-conductors are half-wave, unidirectional, gate-controlled rectifiers. Both Sensitive Gate and Non-Sensitive Gate SCR's in a choice of 3 different electrically isolated packages and 5 non-isolated packages. Electrically Isolated Packages: The electrically isolated packages isolate the case or tab internally to allow the use of low cost assembly and convenient packaging techniques. Teccor offers electrical isolation in the TO-92, TO-220AB, and TO-218 type packages. Glass Passivation: SCR's feature glass passivated device junctions to ensure long term device reliability and parameter stability. Glass offers a rugged, reliable barrier against junction contamination.

Sensitive Gate Type:
The sensitive SCR semiconductors complement the line of power SCRs. **Features:** • Current Ratings: 0.8-10 Amps • Voltage Ratings: 30-600 Volts • Gate Sensitivities: 12-500 microamps • Surge Current: up to 100 Amps

Non-Sensitive Gate Type:
The thyristor SCR semiconductors complement the line of sensitive gate SCRs. **Features:** • Current Ratings: 1-70 Amps • Voltage Ratings: 100-800 Volts • Gate Sensitivities: 10-50 milliamps • Surge Current: up to 950 Amps

Isolated

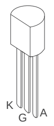

TO-92

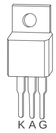

TO-220AB

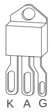

TO-218X

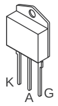

TO-218AC

Non-Isolated

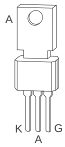

TO-202AB

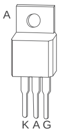

TO-220AB

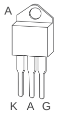

T0-218AC

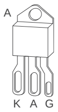

TO-218X

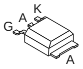

D-PAK
TO-252AA

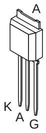

V-PAK
TO-251AA

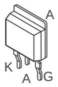

D2-PAK

I_T RMS (A)	V_{DRM} & V_{RRM} (V)	Package	I_{GT} (mA) Min.	I_{GT} (mA) Max.	I_{DRM} & I_{RRM} @25°C (mA)	V_{TM} @25°C (V)	V_{GT} @25°C (V)	$P_{G(AV)}$ (W)	t_{gt} (µsec.)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape and Reel† Size	Tape and Reel† Pricing
SCRs - Sensitive Gate (0.8-10.0 Amp) — Isolated															
.8	200	TO-92	—	.200	.001‡	1.7	0.8	0.1	2.2	2N5064-ND	.38	.34	.31	—	—
	200				.001				3.5	EC103B-ND	.32	.28	.26	—	—
	400				.001				3.5	EC103D-ND	.36	.32	.29	—	—
	600				.002				3.5	EC103M-ND	.43	.38	.35	—	—
1.5	100	TO-92	—	.200	.001	1.5	0.8	0.1	2.2	TCR22-3-ND	.47	.42	.38	—	—
	200				.001					TCR22-4-ND	.36	.33	.30	—	—
	400				.001					TCR22-6-ND	.43	.38	.35	—	—
	600				.002					TCR22-8-ND	.52	.46	.42	—	—
8.0	400	TO-220AB	—	.200	.005	1.6	0.8	0.1	2.2	S4008LS2-ND	1.06	.94	.85	—	—
10.0	400	TO-220AB	—	.200	.005	1.6	0.8	0.1	2.2	S4010LS2-ND	1.15	1.02	.92	—	—
SCRs - Sensitive Gate (0.8-10.0 Amp) — Non-Isolated															
4.0	200	TO-202AB	—	.200	.002	2.2	0.8	0.1	2.2	T106B1-ND	.52	.46	.42	—	—
	400									T106D1-ND	.56	.50	.45	—	—
	600									T106M1-ND	.70	.62	.56	—	—
	200	TO-251AA	—	.200	.002	2.2	0.8	0.1	4.0	S2004VS2-ND	.54	.48	.44	—	—
	400									S4004VS2-ND	.59	.52	.47	—	—
	600									S6004VS2-ND	.72	.64	.58	—	—
	200	TO-252AA	—	.200	.002	2.2	0.8	0.1	4.0	S2004DS2CT-ND*	1.01	.84	.71	2,500	442.00/M
	400									S4004DS2CT-ND*	1.09	.90	.76	2,500	476.00/M
	600									S6004DS2CT-ND*	1.37	1.12	.95	2,500	595.00/M
6.0	200	TO-251AA	—	.200	.005	1.6	0.8	0.1	4.0	S2006VS2-ND	.56	.50	.45	—	—
	400									S4006VS2-ND	.63	.56	.51	—	—
	600									S6006VS2-ND	.77	.68	.62	—	—
	200	TO-252AA	—	.200	.005	1.6	0.8	0.1	4.0	S2006DS2CT-ND*	1.05	.87	.73	2,500	459.00/M
	400									S4006DS2CT-ND*	1.17	.96	.81	2,500	510.00/M
	600									S6006DS2CT-ND*	1.40	1.16	.98	2,500	612.00/M
8.0	400	TO-202AB	—	.200	.005	1.6	0.8	0.1	2.2	S4008FS21-ND	.83	.74	.67	—	—
	200	TO-251AA	—	.200	.005	1.6	0.8	0.1	4.0	S2008VS2-ND	.61	.54	.49	—	—
	400									S4008VS2-ND	.68	.60	.54	—	—
	600									S6008VS2-ND	.83	.74	.67	—	—
	200	TO-252AA	—	.200	.005	1.6	0.8	0.1	4.0	S2008DS2CT-ND*	1.13	.93	.79	2,500	493.00/M
	400									S4008DS2CT-ND*	1.25	1.03	.87	2,500	544.00/M
	600									S6008DS2CT-ND*	1.56	1.28	1.08	2,500	680.00/M
10.0	400	TO-202AB	—	.200	.005	1.6	0.8	0.1	2.2	S4010FS21-ND	.90	.80	.72	—	—
SCRs - Non-Sensitive Gate (1.0-70 Amp) — Isolated															
1.0	200	TO-92	1	10	.01	1.6	1.5	0.3	2.0	S201E-ND	.50	.44	.40	—	—
	400									S401E-ND	.52	.46	.42	—	—
	600									S601E-ND	.56	.50	.45	—	—
6.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2006L-ND	.86	.76	.69	—	—
	400									S4006L-ND	.90	.80	.72	—	—
	600									S6006L-ND	.97	.86	.78	—	—
	800									S8006L-ND	1.04	.92	.83	—	—
8.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2008L-ND	.97	.86	.78	—	—
	400									S4008L-ND	1.01	.90	.81	—	—
	600									S6008L-ND	1.08	.96	.87	—	—
	800									S8008L-ND	1.15	1.02	.92	—	—
10.0	400	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S4010L-ND	1.13	1.00	.90	—	—
	600				.01					S6010L-ND	1.19	1.06	.96	—	—
	800				.02					S8010L-ND	1.28	1.14	1.03	—	—
15.0	400	TO-220AB	1	30	.01	1.6	1.5	0.6	2.0	S4015L-ND	1.22	1.08	.98	—	—
	600				.01					S6015L-ND	1.28	1.14	1.03	—	—
	800				.02					S8015L-ND	1.37	1.22	1.10	—	—
20.0	400	TO-220AB	1	30	.01	1.6	1.5	0.5	2.0	S4020L-ND	1.37	1.22	1.10	—	—
	600				.01			0.5		S6020L-ND	1.46	1.30	1.17	—	—
	800				.02			0.6		S8020L-ND	1.55	1.38	1.25	—	—
25.0	400	TO-220AB	1	35	.01	1.6	1.5	0.8	2.0	S4025L-ND	1.62	1.44	1.30	—	—
	600				.01					S6025L-ND	1.71	1.52	1.37	—	—
	800				.02					S8025L-ND	1.82	1.62	1.46	—	—
35.0	600	TO-218AC	5	40	.01	1.8	1.5	0.8	2.0	S6035K-ND	3.74	3.32	2.99	—	—
	800				.02					S8035K-ND	3.96	3.52	3.17	—	—
65.0	400	TO-218X	5	50	.02	1.8	2.0	1.0	2.5	S4065J-ND	5.76	5.12	4.61	—	—
	600									S6065J-ND	6.14	5.46	4.92	—	—
	800	TO-218AC	5	50	.02	1.8	2.0	1.0	2.5	S8065K-ND	6.37	5.66	5.10	—	—

‡ .05mA@125°C * Cut Tape † For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

I_T RMS (A)	V_{DRM} & V_{RRM} (V)	Package	I_{GT} (mA) Min.	I_{GT} (mA) Max.	I_{DRM} & I_{RRM} @25°C (mA)	V_{TM} @25°C (V)	V_{GT} @25°C (V)	$P_{G(AV)}$ (W)	t_{gt} (µsec.)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Tape and Reel† Size	Tape and Reel† Pricing
SCRs - Non-Sensitive Gate (1.0-70 Amp) — Non-Isolated															
6.0	200	TO-251AA	1	15	.01	1.6	1.5	0.5	2.0	S2006V-ND	.59	.52	.47	—	—
	400									S4006V-ND	.63	.56	.51	—	—
	600									S6006V-ND	.65	.58	.53	—	—
	800									S8006V-ND	.70	.62	.56	—	—
	200	TO-252AA	1	15	.01	1.6	1.5	0.5	2.0	S2006DCT-ND*	1.09	.90	.76	2,500	476.00/M
	400									S4006DCT-ND*	1.17	.96	.81	2,500	510.00/M
	600									S6006DCT-ND*	1.25	1.03	.87	2,500	544.00/M
	800									S8006DCT-ND*	1.33	1.09	.92	2,500	578.00/M
8.0	200	TO-220AB	1	15	.01	1.6	1.5	0.5	2.0	S2008R-ND	.86	.76	.69	—	—
	400									S4008R-ND	.92	.82	.74	—	—
	600									S6008R-ND	.99	.88	.80	—	—
	800									S8008R-ND	1.04	.92	.83	—	—
	200	TO-251AA	1	15	.01	1.6	1.5	0.5	2.0	S2008V-ND	.65	.58	.53	—	—
	400									S4008V-ND	.70	.62	.56	—	—
	600									S6008V-ND	.74	.66	.60	—	—
	800									S8008V-ND	.79	.70	.63	—	—
	200	TO-252AA	1	15	.01	1.6	1.5	0.5	2.0	S2008DCT-ND*	1.25	1.03	.87	2,500	544.00/M
	600									S6008DCT-ND*	1.40	1.16	.98	2,500	612.00/M
	800									S8008DCT-ND*	1.52	1.25	1.06	2,500	663.00/M
10.0	800	TO-220AB	1	15	.02	1.6	1.5	0.5	2.0	S8010R-ND	1.15	1.02	.92	—	—
	200	TO-251AA	1	15	.01	1.6	1.5	0.5	2.0	S2010V-ND	.72	.64	.58	—	—
	400									S4010V-ND	.77	.68	.62	—	—
	600									S6010V-ND	.81	.72	.65	—	—
	800									S8010V-ND	.88	.78	.71	—	—
	200	TO-252AA	1	15	.01	1.6	1.5	0.5	2.0	S2010DCT-ND*	1.37	1.12	.95	2,500	595.00/M
	400									S4010DCT-ND*	1.48	1.22	1.03	2,500	646.00/M
	600									S6010DCT-ND*	1.56	1.28	1.08	2,500	680.00/M
	800									S8010DCT-ND*	1.68	1.38	1.17	2,500	731.00/M
12.0	400	TO-220AB	1	20	.01	1.6	1.5	0.5	2.0	S4012R-ND	1.06	.94	.85	—	—
	600				.01					S6012R-ND	1.13	1.00	.90	—	—
	800				.02					S8012R-ND	1.19	1.06	.96	—	—
	200	TO-251AA	1	20	.01	1.6	1.5	0.5	2.0	S2012V-ND	.74	.66	.60	—	—
	400									S4012V-ND	.79	.70	.63	—	—
	600									S6012V-ND	.86	.76	.69	—	—
	800									S8012V-ND	.90	.80	.72	—	—
	200	TO-252AA	1	20	.01	1.6	1.5	0.5	2.0	S2012DCT-ND*	1.44	1.19	1.00	2,500	629.00/M
	400									S4012DCT-ND*	1.52	1.25	1.06	—	—
	600									S6012DCT-ND*	1.64	1.35	1.14	2,500	714.00/M
	800									S8012DCT-ND*	1.72	1.41	1.19	2,500	748.00/M
16.0	400	TO-220AB	1	30	.01	1.6	1.5	0.6	2.0	S4016R-ND	1.13	1.00	.90	—	—
	600									S6016R-ND	1.19	1.06	.96	—	—
	400	D2-PAK	1	30	.01	1.6	1.5	0.6	2.0	S4016NRPCT-ND*	2.22	1.83	1.54	500	484.50
	600				.01					S6016NRPCT-ND*	2.34	1.92	1.62	500	510.00
	800				.02					S8016NRPCT-ND*	2.50	2.05	1.73	500	544.00
25.0	800	TO-220AB	1	35	.02	1.6	1.5	0.8	2.0	S8025R-ND	1.64	1.46	1.32	—	—
	600	D2-PAK	1	35	.01	1.6	1.5	0.8	2.0	S6025NRPCT-ND*	3.04	2.50	2.11	500	663.00
	800				.02					S8025NRPCT-ND*	3.24	2.66	2.25	500	705.50
40.0	800	TO-220AB	5	40	.02	1.8	1.5	0.8	2.5	S8040R-ND	2.79	2.48	2.24	—	—
	1000				.03					SK040R-ND	2.95	2.62	2.36	—	—
	600	D2-PAK	5	40	.01	1.8	1.5	0.8	2.5	S6040NRPCT-ND*	5.15	4.23	3.57	500	1122.00
	800				.02					S8040NRPCT-ND*	5.46	4.48	3.78	500	1190.00
	1000				.03					SK040NRPCT-ND*	5.77	4.74	4.00	500	1258.00
55.0	800	TO-218AC	5	40	.02	1.8	1.5	.08	2.5	S8055M-ND	3.87	3.44	3.10	—	—
	400	TO-218X	5	40	.01	1.8	1.5	0.8	2.5	S4055W-ND	3.87	3.44	3.10	—	—
	600									S6055W-ND	4.14	3.68	3.32	—	—
	600	TO-220AB	5	40	.01	1.8	1.5	0.8	2.5	S6055R-ND	2.75	2.44	2.20	—	—
	800				.02					S8055R-ND	2.93	2.60	2.34	—	—
	800	D2-PAK	5	40	.02	1.8	1.5	0.8	2.5	S8055NRPCT-ND*	5.73	4.71	3.97	500	1249.50
70.0	600	TO-218X	5	50	.02	1.8	2.0	1.0	2.5	S6070W-ND	5.69	5.06	4.56	—	—

* Cut Tape   † For Tape and Reel part number, change CT-ND to TR-ND.

QUADRAC® Internally Triggered Triacs (4.0-15 Amps)

Thermotab TO-220AB (Isolated)

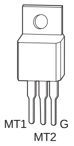

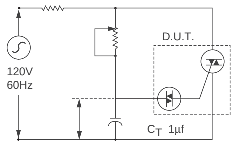

General Description:
QUADRAC® is a triac that includes a diac trigger mounted inside the same package. This device saves the user the expense and assembly time of buying a discrete diac and assembling in conjunction with a gated triac.
The QUADRAC® is a bidirectional AC switch and is gate controlled for either polarity of main terminal voltage. Its primary purpose is for AC switching and phase control applications such as speed controls, temperature modulation controls, and lighting controls.

Features: • Glass passivated junctions • Electrically isolated package • Internal trigger diac • High surge capability - up to 150 Amps • High voltage capability - 200 up to 600 volts • IDRM @25°C: .05mA • VTM @25°C: 1.6V • Capacitance: 0.1µF • tgt: 3µsec.

Electrical Isolation: Isolated TO-220 Quadrac package will withstand a minimum high potential test of 2500VAC (RMS) from leads to case over the operating temperature range of the device.

Electrical Isolation From Leads to Case:
U.L. Recognized File No. 71639

I_T RMS (A)	V_{DRM} (V)	I_{GTM} (A)	VBO (V) Min.	VBO (V) Max.	I_{BO} (µA)	I_H (mA)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
4.0	200	1.2	33	43	25	40	Q2004LT-ND	1.08	.96	.87
	400						Q4004LT-ND	1.11	.99	.89
	600						Q6004LT-ND	1.40	1.24	1.12
6.0	600	1.5	33	43	25	50	Q6006LTH-ND*	1.60	1.42	1.28
8.0	400	1.5	33	43	25	60	Q4008LT-ND	1.42	1.26	1.14
	600		33	43	25		Q6008LT-ND	1.69	1.50	1.35
	600		33	43	25		Q6008LTH-ND*	1.73	1.54	1.39
10.0	600	1.5	33	43	25	60	Q6010LTH-ND*	1.87	1.66	1.50
15.0	400	1.5	33	43	25	70	Q4015LT-ND	1.76	1.56	1.41
	600		33	43	25		Q6015LT-ND	2.09	1.86	1.68
	600		33	43	25		Q6015LTH-ND*	2.14	1.90	1.71

* No snubber network required, best dv/dt and noise immunity.

ON Semiconductor™

Triacs

Designed primarily for power switching. The gate sensitivity of these triacs permits the use of economical transistorized or integrated circuit control circuits, and it enhances their use in low-power phase control and load-switching applications.

	TO-225AA	TO-92	TO-220AB	D-PAK	SOT-223	DPAK-3 ***NEW!***
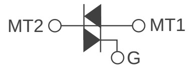	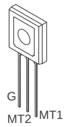	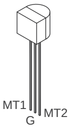	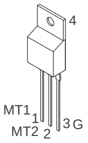	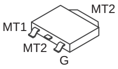	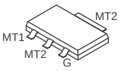	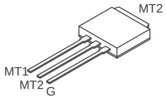

Sensitive Gate Triacs

Package	VDRM (V)	On State RMS Current IT (RMS)	Peak Surge Current ITSM (A)	Peak Gate Power PGM (W)	Application	Digi-Key Part No.	Price Each 1	10	100	250	Tape and Reel* Size	Pricing
TO-225AA	200	2.5A	25	10	Power Switching	T2322BOS-ND	.89	.72	.54	.46	—	—
	200	4A	30	10	Full-Wave ac Control	2N6071AGOS-ND◊ ***NEW!***	.75	.60	.45	.39	—	—
	200	4A	30	10	Full-Wave ac Control	2N6071BOS-ND	.74	.59	.45	.38	—	—
	200	4A	30	10	Full-Wave ac Control	2N6071BGOS-ND◊ ***NEW!***	.75	.60	.45	.39	—	—
	400	4A	30	10	Full-Wave ac Control	2N6073AGOS-ND◊ ***NEW!***	.75	.60	.45	.39	—	—
	400	4A	30	10	Full-Wave ac Control	2N6073BOS-ND	.74	.59	.45	.38	—	—
	400	4A	30	10	Full-Wave ac Control	2N6073BGOS-ND◊ ***NEW!***	.75	.60	.45	.39	—	—
	600	4A	30	10	Full-Wave ac Control	2N6075AGOS-ND◊ ***NEW!***	.75	.60	.45	.39	—	—
	600	4A	30	10	Full-Wave ac Control	2N6075BOS-ND	.74	.59	.45	.38	—	—
	600	4A	30	10	Full-Wave ac Control	2N6075BGOS-ND◊ ***NEW!***	.75	.60	.45	.39	—	—
TO-92	200	0.6A	8	5	MPU Interface	MAC97A4OS-ND	.44	.34	.25	.19	—	—
	200	0.6A	8	5	MPU Interface	MAC97A4GOS-ND◊ ***NEW!***	.45	.35	.25	.19	—	—
	400	0.6A	8	5	MPU Interface	MAC97A6OS-ND	.44	.34	.25	.19	—	—
	400	0.6A	8	5	MPU Interface	MAC97A6GOS-ND◊ ***NEW!***	.45	.35	.25	.19	—	—
	600	0.6A	8	5	MPU Interface	MAC97A8OS-ND	.46	.35	.26	.19	—	—
	600	0.6A	8	5	MPU Interface	MAC97A8GOS-ND◊ ***NEW!***	.46	.36	.26	.20	—	—
TO-220AB	400	8A	80	20	Consumer	MAC228A6GOS-ND◊ ***NEW!***	1.42	1.24	.95	.80	—	—
	600	8A	80	20	Consumer	MAC228A8OS-ND	1.40	1.22	.94	.79	—	—
	600	8A	80	20	Consumer	MAC228A8GOS-ND◊ ***NEW!***	1.42	1.24	.95	.80	—	—
	600	8A	70	16	Full-Wave ac Control	MAC8SMOS-ND	1.14	.99	.76	.64	—	—
	600	8A	70	16	Full-Wave ac Control	MAC8SMGOS-ND◊ ***NEW!***	1.16	1.01	.78	.65	—	—
	600	15A	120	20	Full-Wave ac Control	MAC15SMOS-ND	1.05	.88	.74	.62	—	—
	600	15A	120	20	Full-Wave ac Control	MAC15SMGOS-ND◊ ***NEW!***	1.34	1.16	.89	.75	—	—
	800	8A	80	20	Consumer	MAC228A10GOS-ND◊ ***NEW!***	1.47	1.28	.98	.83	—	—
	800	12A	90	16	Full-Wave ac Control	MAC12SNOS-ND	1.36	1.18	.91	.76	—	—
	800	12A	90	16	Full-Wave ac Control	MAC12SNGOS-ND◊ ***NEW!***	1.38	1.20	.92	.78	—	—
D-PAK	600	4A	40	0.5	Consumer	MAC4DHMT4GOSCT-ND◊ ***NEW!***	—	.67	.50	.43	2,500	262.00/M
SOT-223	200	0.8A	8	5	MPU Interface	MAC08BT1OSCT-ND	—	.43	.33	.26	1,000	171.00
	200	0.8A	8	5	MPU Interface	MAC08BT1GOSCT-ND◊ ***NEW!***	—	.92	.69	.56	1,000	368.00
	600	0.8A	8	5	MPU Interface	MAC08MT1OSCT-ND	—	.43	.33	.26	1,000	171.00
	600	0.8A	8	5	MPU Interface	MAC08MT1GOSCT-ND◊ ***NEW!***	—	.92	.69	.56	1,000	368.00

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Standard Triacs

Package	VDRM (V)	On State RMS Current IT (RMS)	Peak Surge Current ITSM (A)	Peak Gate Power PGM (W)	Application	Digi-Key Part No.	Price Each 1	10	100	250	Tape and Reel* Size	Pricing
TO-220AB	400	8A	80	16	Full-Wave ac Control	MAC8DOS-ND	1.05	.91	.70	.59	—	—
		8A	80	16	Full-Wave ac Control	MAC8DGOS-ND◊ ***NEW!***	1.07	.93	.72	.60	—	—
		8A	80	16	Full-Wave ac Control	MAC9DOS-ND	1.05	.91	.70	.59	—	—
		8A	80	16	Full-Wave ac Control	MAC9DGOS-ND◊ ***NEW!***	1.07	.93	.72	.60	—	—
		12A	100	16	Full-Wave ac Control	MAC12DOS-ND	1.05	.91	.70	.59	—	—
		12A	100	16	Full-Wave ac Control	MAC12DGOS-ND◊ ***NEW!***	1.07	.93	.72	.60	—	—
		15A	150	20	Full-Wave ac Control	MAC15A6OS-ND	1.84	1.60	1.23	1.03	—	—
		15A	150	20	Full-Wave ac Control	MAC15A6GOS-ND◊ ***NEW!***	1.87	1.62	1.25	1.05	—	—
		16A	150	20	Full-Wave ac Control	MAC16DGOS-ND◊ ***NEW!***	1.34	1.16	.89	.75	—	—
		6A	60	16	Full-Wave ac Control	T2500DOS-ND	1.54	1.29	1.08	.90	—	—
	600	8A	80	16	Full-Wave ac Control	MAC8MGOS-ND◊ ***NEW!***	1.07	.93	.72	.60	—	—
		15A	150	20	Full-Wave ac Control	MAC15A8GOS-ND◊ ***NEW!***	1.87	1.62	1.25	1.05	—	—
		16A	150	20	Full-Wave ac Control	MAC16MOS-ND	1.31	1.14	.88	.74	—	—
		16A	150	20	Full-Wave ac Control	MAC16MGOS-ND◊ ***NEW!***	1.34	1.16	.89	.75	—	—
		10A	100	20	Full-Wave ac Control	MAC210A8OS-ND	1.54	1.29	1.08	.90	—	—
		10A	100	20	Full-Wave ac Control	MAC210A8GOS-ND◊ ***NEW!***	1.57	1.31	1.10	.92	—	—
		12A	100	20	Full-Wave ac Control	2N6344AOS-ND	1.84	1.60	1.23	1.03	—	—
		12A	100	20	Full-Wave ac Control	2N6344AGOS-ND◊ ***NEW!***	1.87	1.62	1.25	1.05	—	—
		8A	100	20	Full-Wave ac Control	2N6344OS-ND	1.75	1.52	1.17	.98	—	—
		8A	100	20	Full-Wave ac Control	2N6344GOS-ND◊ ***NEW!***	1.78	1.55	1.19	1.00	—	—
		12A	100	20	Full-Wave ac Control	2N6348AOS-ND	1.84	1.60	1.23	1.03	—	—
		12A	100	20	Full-Wave ac Control	2N6348AGOS-ND◊ ***NEW!***	1.87	1.62	1.25	1.05	—	—
	800	8A	80	16	Full-Wave ac Control	MAC8NGOS-ND◊ ***NEW!***	1.11	.97	.75	.63	—	—
		8A	80	16	Full-Wave ac Control	MAC9NOS-ND	1.09	.95	.73	.62	—	—
		8A	80	16	Full-Wave ac Control	MAC9NGOS-ND◊ ***NEW!***	1.11	.97	.75	.63	—	—
		12A	100	16	Full-Wave ac Control	MAC12NOS-ND	1.09	.95	.73	.62	—	—
		12A	100	16	Full-Wave ac Control	MAC12NGOS-ND◊ ***NEW!***	1.11	.97	.75	.63	—	—
		12A	100	20	Full-Wave ac Control	MAC212A10OS-ND	1.61	1.35	1.13	.94	—	—
		12A	100	20	Full-Wave ac Control	MAC212A10GOS-ND◊ ***NEW!***	1.64	1.37	1.15	.96	—	—
		15A	150	20	Full-Wave ac Control	MAC15A10GOS-ND◊ ***NEW!***	1.87	1.62	1.25	1.05	—	—
		16A	150	20	Full-Wave ac Control	MAC16CNOS-ND	1.19	1.00	.84	.70	—	—
		16A	150	20	Full-Wave ac Control	MAC16CNGOS-ND◊ ***NEW!***	1.51	1.32	1.01	.85	—	—
		12A	100	20	Full-Wave ac Control	2N6349AOS-ND	1.84	1.60	1.23	1.03	—	—
		12A	100	20	Full-Wave ac Control	2N6349AGOS-ND◊ ***NEW!***	1.87	1.62	1.25	1.05	—	—
DPAK-3	800	4A	40	0.5	Consumer	MAC4DCN-1GOS-ND◊ ***NEW!***	.85	.69	.52	.44	—	—
DPAK	600	4A	40	0.5	Consumer	MAC4DSMT4OSCT-ND	1.20	1.04	.80	.68	2,500	241.00/M
		4A	40	0.5	Consumer	MAC4DSMT4GOSCT-ND◊ ***NEW!***	.83	.67	.50	.43	2,500	262.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

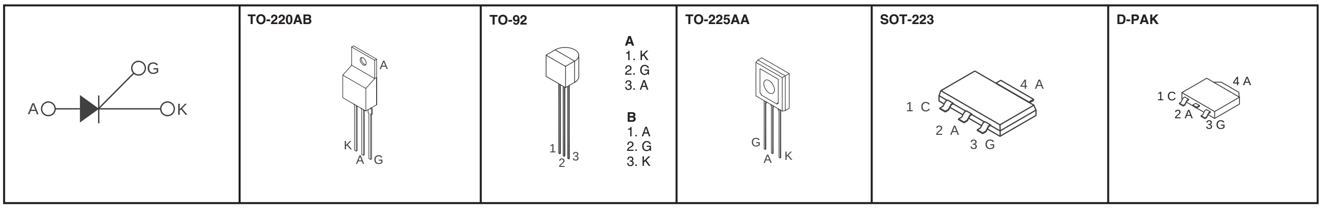

Package	VDRM (V)	On State RMS Current IT (RMS)	Peak Surge Current ITSM (A)	Peak Gate Power PGM (W)	Application	Digi-Key Part No.	Price Each 1	10	100	250	Tape and Reel* Size	Pricing
TO-220AB	50	25A	300	20	Over Voltage Protection	MCR69-002OS-ND	1.62	1.41	1.08	.91	—	—
	50	12A	100	20	Over Voltage Protection	MCR68-002OS-ND	1.30	1.08	.91	.76	—	—
	50	12A	100	20	Over Voltage Protection	MCR68-2GOS-ND◊ ***NEW!***	1.65	1.43	1.10	.93	—	—
	100	25A	300	20	Over Voltage Protection	MCR69-003OS-ND	1.62	1.41	1.08	.91	—	—
	100	25A	300	20	Over Voltage Protection	MCR69-3GOS-ND◊ ***NEW!***	1.65	1.43	1.10	.93	—	—
	400	8A	100	5	Industrial and Consumer	MCR72-006OS-ND	1.40	1.22	.94	.79	—	—
	600	8A	100	5	Industrial and Consumer	MCR72-008OS-ND	1.40	1.22	.94	.79	—	—
	800	10A	100	5	Industrial and Consumer	MCR310-010OS-ND	1.66	1.45	1.11	.94	—	—
	50	25A	250	20	Half-Wave ac Control	2N6504OS-ND	1.62	1.41	1.08	.91	—	—
	50	25A	250	20	Half-Wave ac Control	2N6504GOS-ND◊ ***NEW!***	1.65	1.43	1.10	.93	—	—
	100	25A	250	20	Half-Wave ac Control	2N6505OS-ND	1.62	1.41	1.08	.91	—	—
	100	25A	250	20	Half-Wave ac Control	2N6505GOS-ND◊ ***NEW!***	1.65	1.43	1.10	.93	—	—
	100	12A	100	20	Half-Wave ac Control	2N6395GOS-ND◊ ***NEW!***	1.42	1.24	.95	.80	—	—
	200	8A	100	5	Half-Wave ac Control	MCR218-004OS-ND	1.12	.94	.79	.66	—	—
	200	8A	100	5	Half-Wave ac Control	MCR218-4GOS-ND◊ ***NEW!***	1.42	1.24	.95	.80	—	—
	400	12A	100	20	Half-Wave ac Control	2N6397OS-ND	1.40	1.22	.94	.79	—	—
	400	12A	100	20	Half-Wave ac Control	2N6397GOS-ND◊ ***NEW!***	1.42	1.24	.95	.80	—	—
	400	16A	160	20	Half-Wave ac Control	2N6403OS-ND	1.62	1.41	1.08	.91	—	—
	400	16A	160	20	Half-Wave ac Control	2N6403GOS-ND◊ ***NEW!***	1.65	1.43	1.10	.93	—	—
	400	25A	250	20	Half-Wave ac Control	2N6507OS-ND	1.62	1.41	1.08	.91	—	—
	400	25A	250	20	Half-Wave ac Control	2N6507GOS-ND◊ ***NEW!***	1.65	1.43	1.10	.93	—	—
	400	12A	100	5	Half-Wave ac Control	MCR12LDOS-ND	.95	.79	.67	.56	—	—
	400	12A	100	5	Half-Wave ac Control	MCR12LDGOS-ND◊ ***NEW!***	1.20	1.05	.81	.68	—	—
	600	8A	80	5	Half-Wave ac Control	MCR8SMOS-ND	1.01	.88	.68	.57	—	—
	600	8A	80	5	Half-Wave ac Control	MCR8SMGOS-ND◊ ***NEW!***	1.02	.89	.69	.58	—	—
	600	16A	160	20	Half-Wave ac Control	2N6404OS-ND	1.62	1.41	1.08	.91	—	—
	600	16A	160	20	Half-Wave ac Control	2N6404GOS-ND◊ ***NEW!***	1.65	1.43	1.10	.93	—	—
	600	25A	250	20	Half-Wave ac Control	2N6508OS-ND	1.62	1.41	1.08	.91	—	—
	600	25A	250	20	Half-Wave ac Control	2N6508GOS-ND◊ ***NEW!***	1.65	1.43	1.10	.93	—	—
	800	12A	100	20	Half-Wave ac Control	2N6399OS-ND	1.49	1.29	1.00	.84	—	—
	800	12A	100	20	Half-Wave ac Control	2N6399GOS-ND◊ ***NEW!***	1.51	1.32	1.01	.85	—	—
	800	12A	100	5	Half-Wave ac Control	MCR12NOS-ND	1.09	.95	.73	.62	—	—
	800	16A	160	20	Half-Wave ac Control	2N6405OS-ND	1.62	1.41	1.08	.91	—	—
	800	16A	160	20	Half-Wave ac Control	2N6405GOS-ND◊ ***NEW!***	1.65	1.43	1.10	.93	—	—
	800	16A	160	5	Half-Wave ac Control	MCR16NOS-ND	1.09	.95	.73	.62	—	—
	800	16A	160	5	Half-Wave ac Control	MCR16NGOS-ND◊ ***NEW!***	1.11	.97	.75	.63	—	—
	800	25A	300	20	Half-Wave ac Control	MCR25NGOS-ND◊ ***NEW!***	1.60	1.34	1.13	.94	—	—
	800	25A	250	20	Half-Wave ac Control	2N6509OS-ND	1.62	1.41	1.08	.91	—	—
	800	25A	250	20	Half-Wave ac Control	2N6509GOS-ND◊ ***NEW!***	1.65	1.43	1.10	.93	—	—
TO-92 (A)	30	0.8A	10	0.1	High Volume Consumer	2N5060OS-ND	.46	.35	.26	.19	—	—
	30	0.8A	10	0.1	High Volume Consumer	2N5060GOS-ND◊ ***NEW!***	.46	.36	.26	.20	—	—
	60	0.8A	10	0.1	High Volume Consumer	2N5061RLRAOSCT-ND	—	.35	.26	.19	2,000	126.00/M
	60	0.8A	10	0.1	High Volume Consumer	2N5061RLRAGOSCT-ND◊ ***NEW!***	—	.36	.26	.20	2,000	128.00/M
	60	0.8A	10	0.1	High Volume Consumer	2N5061OS-ND	.46	.35	.26	.19	—	—
	60	0.8A	10	0.1	High Volume Consumer	2N5061GOS-ND◊ ***NEW!***	.46	.36	.26	.20	—	—
	100	0.8A	10	0.1	High Volume Consumer	2N5062RLRAOSCT-ND	—	.35	.26	.19	2,000	126.00/M
	100	0.8A	10	0.1	High Volume Consumer	2N5062RLRAGOSCT-ND◊ ***NEW!***	—	.36	.26	.20	2,000	128.00/M
	200	0.8A	10	0.1	High Volume Consumer	2N5064RLRAOSCT-ND	—	.35	.26	.19	2,000	126.00/M
	200	0.8A	10	0.1	High Volume Consumer	2N5064RLRAGOSCT-ND◊ ***NEW!***	—	.36	.26	.20	2,000	128.00/M
	200	0.8A	10	0.1	High Volume Consumer	2N5064OS-ND	.46	.35	.26	.19	—	—
	200	0.8A	10	0.1	High Volume Consumer	2N5064GOS-ND◊ ***NEW!***	.46	.36	.26	.20	—	—
	400	0.8A	10	0.1	High Volume Consumer	MCR100-6RLOSCT-ND	—	.35	.26	.19	2,000	126.00/M
	400	0.8A	10	0.1	High Volume Consumer	MCR100-6RLGOSCT-ND◊ ***NEW!***	.50	.38	.27	.19	2,000	119.00/M
	600	0.8A	10	0.1	High Volume Consumer	MCR100-8RLOSCT-ND	—	.35	.26	.19	2,000	126.00/M
	400	1.5A	15	0.5	Low-Power Switching	MCR22-6RLRAOSCT-ND	—	.38	.28	.21	2,000	137.00/M
	600	1.5A	15	0.5	Low-Power Switching	MCR22-8RL1OSCT-ND	—	.38	.28	.21	2,000	137.00/M
	600	1.5A	15	0.5	Low-Power Switching	MCR22-8RL1GOSCT-ND◊ ***NEW!***	.50	.39	.28	.21	2,000	139.00/M
TO-92 (B)	40	—	5	0.3	High Volume Consumer	2N6027RLRAGOSCT-ND◊ ***NEW!***	—	.38	.27	.21	2,000	134.00/M
	40	—	5	0.3	High Volume Consumer	2N6028RLRAGOSCT-ND◊ ***NEW!***	—	.38	.27	.21	2,000	134.00/M
TO-225AA	200	4A	20	0.5	High Volume Consumer	C106BOS-ND	.58	.47	.36	.28	—	—
	200	4A	20	0.5	High Volume Consumer	C106BGOS-ND◊ ***NEW!***	.59	.48	.36	.29	—	—
	400	4A	20	0.5	High Volume Consumer	C106DOS-ND	.58	.47	.36	.28	—	—
	400	4A	20	0.5	High Volume Consumer	C106DGOS-ND◊ ***NEW!***	.59	.48	.36	.29	—	—
	600	4A	20	0.5	High Volume Consumer	C106MGOS-ND◊ ***NEW!***	.59	.48	.36	.29	—	—
SOT-223	200	0.8A	8	0.1	Line-Powered Consumer	MCR08BT1OSCT-ND	—	.43	.33	.26	—	—
	200	0.8A	8	0.1	Line-Powered Consumer	MCR08BT1GOSCT-ND◊ ***NEW!***	.53	.43	.33	.26	1,000	171.00
	600	0.8A	8	0.1	Line-Powered Consumer	MCR08MT1GOSCT-ND◊ ***NEW!***	.53	.43	.33	.26	1,000	171.00
D-PAK	400	4A	25	0.5	Industrial and Consumer	MCR716T4OSCT-ND	—	1.35	1.04	.87	2,500	264.00/M
	400	4A	25	0.5	Industrial and Consumer	MCR716T4GOSCT-ND◊ ***NEW!***	.91	.73	.55	.47	2,500	287.00/M
	600	4A	25	5	Industrial and Consumer	MCR718T4OSCT-ND	—	.72	.54	.46	2,500	283.00/M
	600	4A	25	0.5	Industrial and Consumer	MCR708AT4OSCT-ND	—	.72	.54	.46	2,500	283.00/M
	600	12A	100	6	Industrial and Consumer	MCR12DCMT4OSCT-ND	—	.89	.67	.57	2,500	349.00/M
	600	12A	100	5	Industrial and Consumer	MCR12DSMT4OSCT-ND	—	1.30	1.00	.84	—	—
	600	12A	100	5	Industrial and Consumer	MCR12DSMT4GOSCT-ND◊ ***NEW!***	1.12	.90	.68	.58	2,500	355.00/M
	800	12A	100	5	Industrial and Consumer	MCR12DCNT4OSCT-ND	—	1.30	1.00	.84	2,500	326.00/M
	800	12A	100	5	Industrial and Consumer	MCR12DCNT4GOSCT-ND◊ ***NEW!***	1.12	.90	.68	.58	2,500	355.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

SCRs

ADD-A-Pak

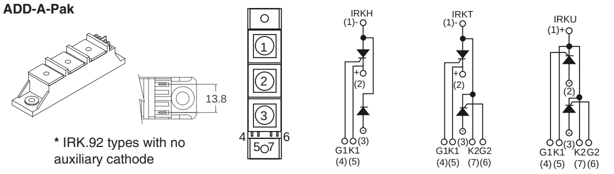

* IRK.92 types with no auxiliary cathode

TO-208AA

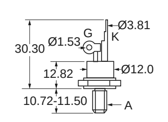

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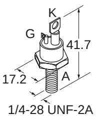

D2Pak

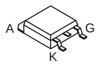

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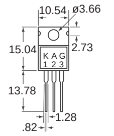

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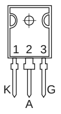

TO-220 FULLPak

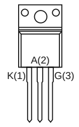

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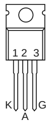

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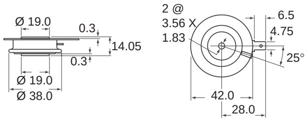

K-PUK

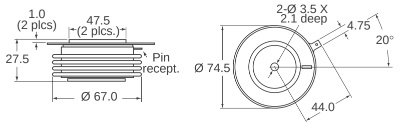

TO-48

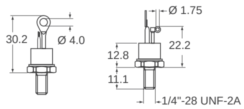

V_{DRM} and Volts Minimum	I_T (av) Amps Max.@ 85°C	Package	V_{GT} Volts Max.	I_{GT} mA Max.	V_{TM} Comp.(a) Volts Max.	DV/DT V/us Max.	Digi-Key Part No.	Price Each 1	10	100
800	95	ADD-A-Pak	2.5	150	1.58	500	IRKU91/08A-ND	52.17	41.74	36.53
1200	95		2.5	150	1.58	500	IRKH91/12A-ND	60.94	48.75	39.00
1200	95		2.5	150	1.58	500	IRKT91/12A-ND	62.74	50.20	40.16
1200	95		2.5	150	1.58	500	IRKU91/12A-ND	52.17	41.74	37.57
1600	95		2.5	150	1.58	500	IRKT92/16A-ND*	40.07	32.94	29.21
25	16	TO-208AA	2.0	40	2	100	2N681-ND	11.83	9.46	7.10
1000	16		2.0	60	1.75	300	16RIA100-ND	21.92	17.54	11.67
600	50	TO-65	2.5	100	1.6	500	50RIA60-ND	22.28	17.82	11.85
1200	50		2.5	100	1.6	500	50RIA120-ND	31.49	25.19	16.76
800	6.5	D2Pak	1.0	15	1.15	150	10TTS08S-ND	1.65	.87	.79
800	6.5		1.0	15	1.15	150	12TTS08S-ND	2.63	1.84	1.40
800	10		2.0	60	1.4	500	16TTS08S-ND	3.05	2.44	1.95
800	10		2.0	60	1.4	500	16TTS08-ND	2.01	1.61	1.29
1200	10		3.0	90	1.4	500	16TTS12S-ND	3.11	2.49	1.87
800	16		2.0	45	1.25	500	25TTS08S-ND	3.64	2.92	2.34
800	8	TO-220AC	1.0	15	1.2	150	12TTS08-ND	2.51	1.76	1.34
800	20	TO-247AC	2.0	45	1.3	500	30TPS08-ND	2.45	1.96	1.47
1200	20		2.0	45	1.3	500	30TPS12-ND	2.75	2.20	1.65
800	35		2.5	150	1.85	1000	40TPS08-ND	4.50	3.60	2.59
800	35		2.5	150	1.85	1000	40TPS08A-ND	4.48	3.20	2.60
1200	35		2.5	150	1.85	1000	40TPS12-ND	4.87	3.90	2.47
1200	35		2.5	150	1.85	1000	40TPS12A-ND	6.05	4.18	3.52
800	10	TO-220 FULLPak	3.0	90	1.4	500	16TTS08FP-ND	2.34	1.88	1.41
800	16		2.0	45	1.25	500	25TTS08FP-ND	3.94	2.72	2.17
1200	16		2.0	45	1.25	500	25TTS12FP-ND	3.82	3.06	2.30
1200	10	TO-220AB	2.0	60	1.4	500	16TTS12-ND	1.92	1.54	1.39
800	16		2.0	45	1.25	500	25TTS08-ND	3.03	2.42	2.19
1200	16		2.0	45	1.25	500	25TTS12-ND	2.08	1.67	1.42
800	350	A-PUK	3.0	150	1.96	500	ST180C08C0-ND	90.87	72.70	45.45
800	410		3.0	150	1.69	500	ST230C08C0-ND	87.67	70.14	43.84
2000	1650	K-PUK	3.0	200	1.73	500	ST1200C20K0-ND	437.25	349.80	218.64
100	16	TO-48	2.0	40	2	100 Typical	2N683-ND	11.61	9.29	6.17
200	16		2.0	60	1.75	100	16RIA20-ND	13.64	10.92	7.26
800	180	TO-93	2.5	150	1.35	500	180RKI80-ND	91.41	73.13	46.44
600	280		3.0	150	1.28	500	ST280S06P0V-ND	113.85	91.08	56.94
2000	200		3.0	150	1.75	500	ST180S20P0-ND	175.58	131.69	109.74
1200	25	PACE-Pak	2.0	60	1.35	200	P105W-ND	43.91	34.47	29.86
1200	40		2.0	60	1.4	200	P405W-ND	48.31	37.93	32.85
1200	70	SUPER-247	1.5	100	1.4	500	70TPS12-ND	9.66	7.35	6.09
1600	70		1.5	100	1.4	500	70TPS16-ND	8.05	6.13	5.08

TO-93

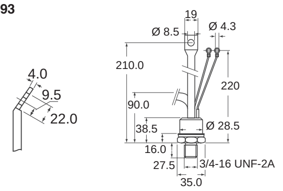

PACE-Pak

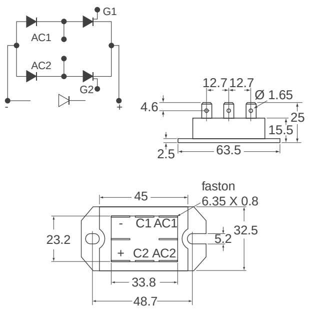

SUPER-247

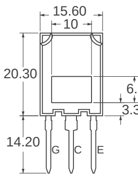

SCRs

RoHS Compliant Parts Available

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT}	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
1	200	.25	200µA	SOT-23	497-2527-1-ND	.90	.72	.54	497-2527-2-ND	3,000	285.00/M	P0102BL 5AA4
2	400	0.8	200µA	SOT-223	497-2523-1-ND	.72	.58	.44	497-2523-2-ND	1,000	248.00	P0102DN 5AA4
	600	0.8	200µA	SOT-223	497-4649-1-ND ***NEW!***	.86	.69	.52	497-4649-2-ND ***NEW!***	1,000	295.00	P0102MN 5AA4
	600	1.25	200µA	SOT-223	497-2532-1-ND	.90	.72	.54	497-2532-2-ND	1,000	310.00	X0202MN 5BA4
3A	50	8	15mA	TO-220AB	497-3277-5-ND◊	1.24	1.08	.83	—	—	—	TYN058RG
	200	8	15mA	TO-220AB	497-4483-5-ND‡	1.46	1.27	.98	—	—	—	TYN208RG
	200	25	40mA	TO-220AB	497-3279-5-ND◊	1.61	1.40	1.08	—	—	—	TYN225RG
	400	8	25mA	TO-220AB	497-4484-5-ND‡	1.46	1.27	.98	—	—	—	TYN408GRG
	600	6	15mA	TO-220AB	497-4485-5-ND‡	1.13	.98	.75	—	—	—	TYN606RG
	600	8	200µA	TO-220AB	497-2551-5-ND‡	1.43	1.24	.95	—	—	—	TS820-600T
	600	12	30mA	TO-220AB	497-2418-5-ND◊	1.50	1.30	1.00	—	—	—	TYN612RG
	600	16	25mA	TO-220AB	497-2420-5-ND◊	1.50	1.25	1.05	—	—	—	TYN616RG
	600	40	35mA	TO-220AB	497-2422-5-ND◊	2.55	2.13	1.79	—	—	—	TYN640RG
	800	4	15mA	TO-220AB	497-4488-5-ND‡	1.46	1.27	.98	—	—	—	TYN804RG
	800	10	15mA	TO-220AB	497-4489-5-ND‡	1.46	1.27	.98	—	—	—	TYN810RG
	800	12	15mA	TO-220AB	497-4490-5-ND‡	1.46	1.27	.98	—	—	—	TYN812RG
	800	16	25mA	TO-220AB	497-4491-5-ND‡	1.50	1.30	1.00	—	—	—	TYN816RG

‡ Tube ◊ Bulk † Ammo Pack

Fig. 1 — SOT-23

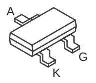

Fig. 2 — SOT-223

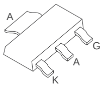

Fig. 3 — TO-220AB

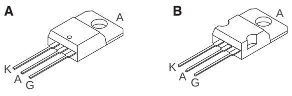

Fig. 4 — TO-92

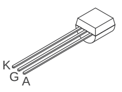

Fig. 5 — TOP3

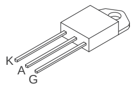

(Continued)

SCRs *(Cont.)*

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT}	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
3A	800	25	40mA	TO-220AB	497-3793-5-ND‡	2.16	1.80	1.52	—	—	—	TYN825RG
	800	40	35mA	TO-220AB	497-3792-5-ND‡	3.29	2.87	2.14	—	—	—	TYN840RG
	1000	6	15mA	TO-220AB	497-4481-5-ND‡	1.31	1.14	.88	—	—	—	TYN1006RG
	1000	8	15mA	TO-220AB	497-4482-5-ND‡	1.43	1.24	.95	—	—	—	TYN1008RG
	1200	25	40mA	TO-220AB	497-3278-5-ND◊	2.70	2.25	1.89	—	—	—	TYN1225RG
3B	600	12	5mA	TO-220AB	497-4487-5-ND‡	1.46	1.27	.98	—	—	—	TYN612MRG
4	400	0.8	1µA	TO-92	497-3713-1-ND	.81	.65	.49	497-3713-2-ND	2,000	279.00/M	P0115DA 5AL3
	600	0.8	200µA	TO-92	497-3321-1-ND	.68	.54	.41	497-3321-2-ND	2,000	233.00/M	X00602MA 5AL2
	600	0.8	200µA	TO-92	497-4504-1-ND	.52	.40	.29	497-4504-3-ND†	2,000	144.00/M	X00602MA 2AL2
	600	0.8	200µA	TO-92	497-4281-ND◊	.46	.35	.26	—	—	—	P0102MA1AA3
	600	0.8	25µA	TO-92	497-4282-1-ND	.46	.35	.26	497-4282-3-ND†	2,000	126.00/M	P0111MA2AL3
	600	0.8	25µA	TO-92	497-4618-ND◊	.42	.33	.24	—	—	—	P0111MA 1AA3
	600	0.8	5µA	TO-92	497-4283-1-ND	.46	.35	.26	497-4283-2-ND	2,000	126.00/M	P0118MA 5AL3
	600	1.25	200µA	TO-92	497-2421-ND◊	.65	.52	.39	—	—	—	X020MA 1BA2
5	200	30	50mA	TOP3	497-4185-5-ND‡	5.81	5.06	3.77	—	—	—	BTW68-200RG
	200	50	80mA	TOP3	497-4186-5-ND‡	5.51	4.80	3.57	—	—	—	BTW69-200RG
	600	30	50mA	TOP3	497-3804-5-ND‡	6.59	5.74	4.27	—	—	—	BTW68-600RG
	800	30	80mA	TOP3	497-3805-5-ND‡	6.70	5.83	4.34	—	—	—	BTW68-800RG
	1000	30	50mA	TOP3	497-4184-5-ND‡	5.81	5.06	3.77	—	—	—	BTW68-1000RG
	1200	50	80mA	TOP3	497-2434-5-ND◊	8.07	7.38	5.83	—	—	—	BTW69-1200RG
6	600	4	200µA	DPAK	497-3276-1-ND	1.39	1.21	.93	497-3276-2-ND	2,500	492.00/M	TS420-600B-TR
7	1000	16	25mA	D2PAK	497-3740-1-ND	1.95	1.63	1.37	497-3740-2-ND	1,000	878.00	TN1625-1000G-TR
8	600	4	200µA	T0202-3	497-3322-ND◊	1.16	1.01	.78	—	—	—	X0402MF 1AA2
	600	4	200µA	T0202-3	497-3322-5-ND‡	.68	.54	.41	—	—	—	X0402MF 0AA2
9	800	20	25mA	TO-220	497-3562-5-ND◊	2.31	1.93	1.62	—	—	—	TXN692RG
10	400	8	25mA	TO-220AB	497-4480-5-ND‡	1.58	1.37	1.05	—	—	—	TXN408GRG
	600	12	15mA	TO-220AB	497-3561-5-ND‡	1.65	1.38	1.16	—	—	—	TXN612RG
	1000	12	15mA	TO-220AB	497-4479-5-ND‡	2.25	1.88	1.58	—	—	—	TXN1012RG
11	600	12	5mA	TO-220FPAB	497-4486-5-ND‡	1.13	.98	.75	—	—	—	TYN612MFP
12	800	4	200µA	T0202-1	497-4506-ND◊	.72	.58	.44	—	—	—	X0402NE 1AA2

‡ Tube ◊ Bulk † Ammo Pack

Fig. 6 — DPAK

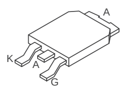

Fig. 7 — D2PAK

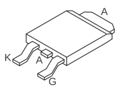

Fig. 8 — TO202-3

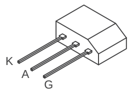

Fig. 9 — TO-220

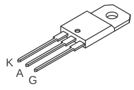

Fig. 10 — TO-220AB Insulated

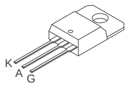

Fig. 11 — TO-220FPAB

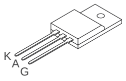

Fig. 12 — TO202-1

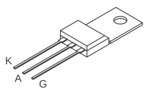

Triacs

RoHS Compliant Parts Available

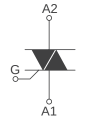

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT} (mA)	Package	Insulation	Digi-Key Part No.	Bulk Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
1	400	6	10	TO-220AB	Insulated	497-3382-5-ND‡	1.31	1.14	.88	—	—	—	BTA06-400ARG
	400	6	50	TO-220AB	Insulated	497-2390-5-ND	1.50	1.30	1.00	—	—	—	BTA06-400BRG
	400	6	25	TO-220AB	Insulated	497-3383-5-ND‡	1.50	1.30	1.00	—	—	—	BTA06-400CRG
	400	8	50	TO-220AB	Insulated	497-2391-5-ND	1.24	1.08	.83	—	—	—	BTA08-400BRG
	400	10	50	TO-220AB	Insulated	497-2400-5-ND	1.58	1.37	1.05	—	—	—	BTA10-400BRG
	600	6	10	TO-220AB	Insulated	497-3384-5-ND‡	1.31	1.14	.88	—	—	—	BTA06-600ARG
	600	6	50	TO-220AB	Insulated	497-3117-5-ND	1.31	1.14	.88	—	—	—	BTA06-600BWRG
	600	6	35	TO-220AB	Insulated	497-3385-5-ND‡	1.61	1.40	1.08	—	—	—	BTA06-600CWRG
	600	6	10	TO-220AB	Insulated	497-3118-5-ND	1.61	1.40	1.08	—	—	—	BTA06-600SWRG
	600	6	5	TO-220AB	Insulated	497-3119-5-ND‡	1.61	1.40	1.08	—	—	—	BTA06-600TRG
	600	6	5	TO-220AB	Insulated	497-3386-5-ND‡	1.50	1.30	1.00	—	—	—	BTA06-600TWRG
	600	8	5	TO-220AB	Insulated	497-3387-5-ND‡	1.73	1.50	1.15	—	—	—	BTA08-600TWRG
	600	8	5	TO-220AB	Insulated	497-3748-5-ND‡	1.73	1.50	1.15	—	—	—	BTA08-600CWRG
	600	10	50	TO-220AB	Insulated	497-3120-5-ND	1.50	1.25	1.05	—	—	—	BTA10-600BWRG
	600	12	50	TO-220AB	Insulated	497-2388-5-ND	1.59	1.33	1.12	—	—	—	BTA12-600BRG
	600	12	50	TO-220AB	Insulated	497-2396-ND	1.65	1.43	1.10	—	—	—	BTA12-600BW
	600	12	50	TO-220AB	Insulated	497-3121-5-ND‡	1.56	1.30	1.10	—	—	—	BTA12-600BWRG
	600	16	50	TO-220AB	Insulated	497-3122-5-ND‡	1.80	1.50	1.26	—	—	—	BTA16-600BWRG
	600	16	35	TO-220AB	Insulated	497-2415-5-ND	1.57	1.36	1.05	—	—	—	BTA16-600CWRG
	600	16	25	TO-220AB	Insulated	497-3388-5-ND‡	1.80	1.50	1.26	—	—	—	BTA16-600CRG
	600	16	10	TO-220AB	Insulated	497-3389-5-ND‡	1.80	1.50	1.26	—	—	—	BTA16-600SWRG
	600	20	35	TO-220AB	Insulated	497-3390-5-ND‡	1.98	1.65	1.39	—	—	—	BTA20-600CWRG
	600	25	50	TO-220AB	Insulated	497-3123-5-ND‡	2.25	1.88	1.58	—	—	—	BTA24-600BWRG
	600	25	35	TO-220AB	Insulated	497-3124-5-ND‡	2.70	2.25	1.89	—	—	—	BTA24-600CWRG
	700	4	10	TO-220AB	Insulated	497-4152-5-ND‡	1.58	1.37	1.05	—	—	—	BTA04-700SRG
	700	4	5	TO-220AB	Insulated	497-4153-5-ND‡	1.05	.91	.70	—	—	—	BTA04-700TRG
	700	8	50	TO-220AB	Insulated	497-4155-5-ND‡	1.58	1.37	1.05	—	—	—	BTA08-700BRG
	700	8	25	TO-220AB	Insulated	497-4156-5-ND‡	1.58	1.37	1.05	—	—	—	BTA08-700CRG
	700	8	5	TO-220AB	Insulated	497-4157-5-ND‡	1.61	1.40	1.08	—	—	—	BTA08-700TWRG
	700	10	50	TO-220AB	Insulated	497-4158-5-ND‡	1.50	1.30	1.00	—	—	—	BTA10-700BRG
	700	10	35	TO-220AB	Insulated	497-4159-5-ND‡	1.50	1.30	1.00	—	—	—	BTA10-700CWRG
	700	12	50	TO-220AB	Insulated	497-4161-5-ND‡	1.69	1.47	1.13	—	—	—	BTA12-700BRG
	700	16	50	TO-220AB	Insulated	497-4163-5-ND‡	1.80	1.56	1.20	—	—	—	BTA16-700BRG
	700	16	50	TO-220AB	Insulated	497-4164-5-ND‡	1.80	1.56	1.20	—	—	—	BTA16-700BWRG
	700	16	35	TO-220AB	Insulated	497-4165-5-ND‡	1.80	1.56	1.20	—	—	—	BTA16-700CWRG
	700	20	50	TO-220AB	Insulated	497-4167-5-ND‡	1.62	1.35	1.14	—	—	—	BTA20-700BWRG
	700	20	35	TO-220AB	Insulated	497-4168-5-ND‡	1.62	1.35	1.14	—	—	—	BTA20-700CWRG
	800	6	25	TO-220AB	Insulated	497-4154-5-ND‡	1.80	1.56	1.20	—	—	—	BTA06-800CRG
	800	10	35	TO-220AB	Insulated	497-4160-5-ND‡	1.62	1.35	1.14	—	—	—	BTA10-800CWRG
	800	12	50	TO-220AB	Insulated	497-4162-5-ND‡	1.73	1.50	1.15	—	—	—	BTA12-800BWRG
	800	16	50	TO-220AB	Insulated	497-2408-5-ND	1.65	1.38	1.16	—	—	—	BTA16-800BRG
	800	16	35	TO-220AB	Insulated	497-4166-5-ND‡	1.62	1.35	1.14	—	—	—	BTA16-800CWRG
	800	25	50	TO-220AB	Insulated	497-2402-5-ND	2.40	2.00	1.68	—	—	—	BTA24-800BWRG
	800	25	35	TO-220AB	Insulated	497-4169-5-ND‡	2.25	1.88	1.58	—	—	—	BTA24-800CWRG

* Cut Tape ‡ Tube § Ammo Pack

Fig. 1 — TO-220AB

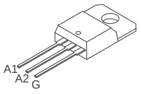

Fig. 2 — TO220AB Non-Insulated

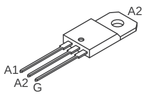

Fig. 3 — TOP3

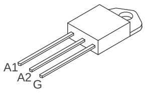

Fig. 4 — TOP3 Non-Insulated

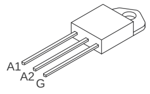

(Continued)

Triacs *(Cont.)*

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT} (mA)	Package	Insulation	Digi-Key Part No.	Bulk Price Each			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
							1	10	100		Size	Pricing	
2	400	8	10	TO-220AB	Non-Insulated	497-2436-5-ND	1.31	1.14	.88	—	—	—	BTB08-400BRG
	600	4	5	TO-220AB	Non-Insulated	497-4174-5-ND‡	1.05	.91	.70	—	—	—	BTB04-600TRG
	600	6	50	TO-220AB	Non-Insulated	497-3391-5-ND‡	1.43	1.24	.95	—	—	—	BTB06-600BWRG
	600	6	35	TO-220AB	Non-Insulated	497-3392-5-ND‡	1.43	1.24	.95	—	—	—	BTB06-600CWRG
	600	6	10	TO-220AB	Non-Insulated	497-4175-5-ND‡	1.05	.91	.70	—	—	—	BTB06-600SWRG
	600	6	5	TO-220AB	Non-Insulated	497-3127-5-ND‡	1.13	.98	.75	—	—	—	BTB06-600TRG
	600	8	50	TO-220AB	Non-Insulated	497-2425-5-ND	1.20	1.04	.80	—	—	—	BTB08-600BWRG
	600	8	10	TO-220AB	Non-Insulated	497-2440-5-ND	1.20	1.04	.80	—	—	—	BTB08-600SRG
	600	10	50	TO-220AB	Non-Insulated	497-3393-5-ND‡	1.61	1.40	1.08	—	—	—	BTB10-600BRG
	600	10	25	TO-220AB	Non-Insulated	497-3394-5-ND‡	1.61	1.40	1.08	—	—	—	BTB10-600CRG
	600	12	50	TO-220AB	Non-Insulated	497-2655-5-ND‡	1.46	1.27	.98	—	—	—	BTB12-600BWRG
	600	12	25	TO-220AB	Non-Insulated	497-3395-5-ND‡	1.76	1.53	1.18	—	—	—	BTB12-600CRG
	600	12	10	TO-220AB	Non-Insulated	497-3396-5-ND‡	1.76	1.53	1.18	—	—	—	BTB12-600SWRG
	600	16	50	TO-220AB	Non-Insulated	497-2437-5-ND	1.80	1.56	1.20	—	—	—	BTB16-600BRG
	600	16	25	TO-220AB	Non-Insulated	497-3397-5-ND‡	1.65	1.38	1.16	—	—	—	BTB16-600CRG
	600	25	50	TO-220AB	Non-Insulated	497-2426-5-ND	2.10	1.75	1.47	—	—	—	BTB24-600BW
	700	8	50	TO-220AB	Non-Insulated	497-4176-5-ND‡	1.31	1.14	.88	—	—	—	BTB08-700BWRG
	700	12	10	TO-220AB	Non-Insulated	497-4179-5-ND‡	1.50	1.30	1.00	—	—	—	BTB12-700SWRG
	800	10	50	TO-220AB	Non-Insulated	497-4177-5-ND‡	1.39	1.21	.93	—	—	—	BTB10-800BWRG
	800	10	35	TO-220AB	Non-Insulated	497-4178-5-ND‡	1.39	1.21	.93	—	—	—	BTB10-800CWRG
	800	12	35	TO-220AB	Non-Insulated	497-4180-5-ND‡	1.58	1.37	1.05	—	—	—	BTB12-800CWRG
	800	16	50	TO-220AB	Non-Insulated	497-4181-5-ND‡	1.58	1.37	1.05	—	—	—	BTB16-800BRG
	800	16	35	TO-220AB	Non-Insulated	497-4182-5-ND‡	1.61	1.40	1.08	—	—	—	BTB16-800CWRG
	800	25	50	TO-220AB	Non-Insulated	497-2429-5-ND	2.10	1.75	1.47	—	—	—	BTB24-800BRG
	800	25	50	TO-220AB	Non-Insulated	497-4183-5-ND‡	1.92	1.60	1.35	—	—	—	BTB24-800BWRG
3	600	25	50	TOP3	Insulated	497-3126-ND	7.82	7.14	5.65	—	—	—	BTA26-600BW
	600	25	50	TOP3	Insulated	497-4170-5-ND‡	4.05	3.53	2.63	—	—	—	BTA26-600BWRG
	800	25	50	TOP3	Insulated	497-4171-5-ND‡	4.05	3.53	2.63	—	—	—	BTA26-800BRG
	800	25	50	TOP3	Insulated	497-4172-5-ND‡	4.05	3.53	2.63	—	—	—	BTA26-800BWRG
	800	25	35	TOP3	Insulated	497-4173-5-ND‡	4.05	3.53	2.63	—	—	—	BTA26-800CWRG
4	600	25	50	TOP3	Non-Insulated	497-3398-5-ND‡	4.05	3.53	2.63	—	—	—	BTB26-600BRG
5	600	25	50	RD-91	Insulated	497-2414-5-ND	5.75	5.25	4.15	—	—	—	BTA25-600B
	600	25	50	RD-91	Insulated	497-3125-5-ND	5.75	5.25	4.15	—	—	—	BTA25-600BW
	600	40	50	RD-91	Insulated	497-2417-5-ND	7.13	6.51	5.15	—	—	—	BTA40-600B
	800	40	50	RD-91	Insulated	497-2405-5-ND	7.68	7.02	5.55	—	—	—	BTA40-800B
6	600	8	10	D^2PAK	—	497-3560-5-ND‡	1.56	1.30	1.10	—	—	—	T810-600G
	600	8	35	D^2PAK	—	497-2507-1-ND*	1.62	1.35	1.14	497-2507-2-ND	1,000	609.00	T835-600G-TR
	600	16	35	D^2PAK	—	497-2557-5-ND‡	2.25	1.88	1.58	—	—	—	T1635-600G
	600	16	50	D^2PAK	—	497-3739-1-ND*	2.34	1.95	1.64	497-3739-2-ND	1,000	1053.00	T1650-600G-TR
	700	16	35	D^2PAK	—	497-4433-1-ND*	1.65	1.43	1.10	497-4433-2-ND	1,000	638.00	T1635-700G-TR
	800	8	10	D^2PAK	—	497-4438-1-ND*	1.58	1.37	1.05	497-4438-2-ND	1,000	609.00	T810-800G-TR
7	600	4	5	DPAK	—	497-2505-1-ND*	1.28	1.11	.85	497-2505-2-ND	2,500	452.00/M	T405-600B-TR
	600	4	5	DPAK	—	497-2501-1-ND*	1.13	.98	.75	497-2501-2-ND	2,500	314.00/M	T405Q-600B-TR
	600	4	10	DPAK	—	497-3269-1-ND*	1.24	1.08	.83	497-3269-2-ND	2,500	439.00/M	T410-600B-TR
	600	4	35	DPAK	—	497-2513-1-ND*	1.08	.87	.65	497-2513-2-ND	2,500	342.00/M	T435-600B-TR
	600	4	35	DPAK	—	497-3798-5-ND‡	1.01	.88	.68	—	—	—	T435-600B
	600	8	35	DPAK	—	497-3270-1-ND*	1.58	1.37	1.05	497-3270-2-ND	2,500	559.00/M	T835-600B-TR
	800	4	5	DPAK	—	497-4434-1-ND*	1.05	.91	.70	497-4434-2-ND	2,500	372.00/M	T405-800B-TR
8	600	4	5	IPAK	—	497-2556-5-ND‡	1.04	.83	.63	—	—	—	T405Q-600H
	600	4	35	IPAK	—	497-3795-5-ND‡	1.09	.95	.73	—	—	—	T435-600H
	700	4	10	IPAK	—	497-4435-5-ND‡	.98	.85	.65	—	—	—	T410-700H
	700	4	35	IPAK	—	497-4436-5-ND‡	1.05	.91	.70	—	—	—	T435-700H
9	600	0.8	5	TO-92	—	497-4681-1-ND* ***NEW!***	.60	.48	.36	497-4681-2-ND ***NEW!***	2,000	192.00/M	Z00607MA 5BL2
	600	1	3	TO-92	—	497-4682-1-ND* ***NEW!***	.60	.48	.36	497-4682-2-ND ***NEW!***	2,000	192.00/M	Z0103MA 5AL2
	600	1	3	TO-92	—	497-3323-1-ND*	.68	.54	.41	497-3323-3-ND§	2,000	233.00/M	Z0103MA 2AL2
	600	1	3	TO-92	—	497-3323-ND	.65	.52	.39	—	—	—	Z0103MA 1AA2
	600	1	5	TO-92	—	497-3822-ND	.90	.72	.54	—	—	—	Z0107MA 1AA2
	600	1	10	TO-92	—	497-2416-ND	.81	.65	.49	—	—	—	Z0109MA 1AA2
	800	1	3	TO-92	—	497-4507-1-ND*	.72	.58	.44	497-4507-2-ND	2,000	248.00/M	Z0103NA 5AL2
10	600	4	3	T0202-3	—	497-3324-ND	.97	.78	.59	—	—	—	Z0402MF 1AA2
11	800	6	30	ISOWATT 220AB	—	497-4437-5-ND‡	1.73	1.50	1.15	—	—	—	T630-800W
	800	8	20	ISOWATT 220AB	—	497-4805-5-ND‡ ***NEW!***	1.65	1.43	1.10	—	—	—	T820-800W
12	800	1	5	SOT-223	—	497-4508-1-ND*	.72	.58	.44	497-4508-2-ND	1,000	248.00	Z0107NN 5AA4
	800	1	10	SOT-223	—	497-4509-1-ND*	.72	.58	.44	497-4509-2-ND	1,000	248.00	Z0109NN 5AA4

* Cut Tape ‡ Tube § Ammo Pack

Fig. 5 — RD-91

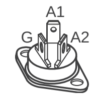

Fig. 6 — D^2PAK

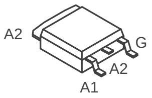

Fig. 7 — DPAK

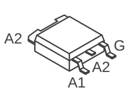

Fig. 8 — IPAK

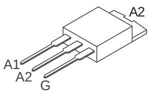

Fig. 9 — TO-92

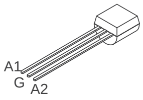

Fig. 10 — TO202-3

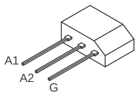

Fig. 11 — ISOWATT220AB

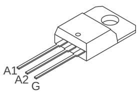

Fig. 12 — SOT-223

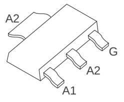

Alternistors

RoHS Compliant Parts Available

Fig.	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{GT} (mA)	Package	Insulation	Digi-Key Part No.	Price Each			STMicroelectronics Part No.
							1	10	100	
3	600	40	200	TOP 3	Insulated	497-4441-5-ND‡	7.36	6.72	5.32	TPDV640RG
	800	40	200	TOP 3	Insulated	497-4442-5-ND‡	8.28	7.56	5.98	TPDV840RG
	1200	25	150	TOP 3	Insulated	497-3791-5-ND‡	7.48	6.83	5.40	TPDV1225RG
	1200	40	200	TOP 3	Insulated	497-3794-5-ND‡	8.51	7.77	6.15	TPDV1240RG

‡ Tube

Diacs

RoHS Compliant Parts Available

$V_{(BO)}$ (V) Minimum	$V_{(BO)}$ (V) Maximum	$V_{(BO)}$ Symmetry (V) Maximum	Dynamic Breakdown Voltage (V)	Package	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel †		STMicroelectronics Part No.
						1	10	100	Size	Pricing	
28	36	3	5	DO-35	497-3099-1-ND	.41	.30	.22	5,000	82.00/M	DB3

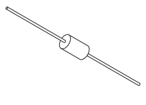

† For Tape and Reel part number, change 1-ND to 2-ND.

ECS INC. INTERNATIONAL

Surface Mount Oscillators

Notes:

- Frequency Stability for ECS-3953C, ECS-3953M, ECS-3951C, and ECS-3951M Series inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration
- For the Enable/Disable Function in the ECS-3953C, ECS-3953M, ECS-3951C, and ECS-3951M Series, an internal pullup resistor from Pin 1 to Pin 4 allows active output if Pin 1 is left open. A 0.01µF bypass capacitor should be placed between (V)DD (Pin 4) and) GND (Pin 2) to minimize power supply line noise.

Specifications:

- **Enable/Disable Time:** 100ns max.
- **Output Symmetry:** 40 ~ 60%
- **Storage Temperature:** -55°C ~ 125°C
- **Output Current (IOL) VOL=0.5/0.33V (IOH) VOL=4.5V/2.97V:** 4mA IOL; -4mA IOH

Series	Input Current	Rise and Fall Time
ECS-3951C	1.8432 - 20.00MHz - 10mA Max. 33.00MHz - 15mA Max. 40.00-65.00MHz - 30mA Max. 66.666MHz - 50mA Max.	10nS
ECS-3951M	1.8432-33.00MHz - 20mA Max. 40.00-66.666MHz - 55mA Max.	Up to 66.666MHz - 15nS 80.000MHz - 5nS
ECS-3951M-BN	1.8-36.0MHz - 20mA Max. 36.1-70.0MHz - 55mA Max. 70.1-100.0MHz - 60mA Max. 100.1-125.0MHz - 65mA Max.	1.8-70.0MHz - 15nS 70.1-125.0MHz - 5nS
ECS-3953C	20.00-32.00MHz - 8mA Max. 32.00-50.00MHz - 12mA Max. 66.666-80.00MHz - 30mA Max.	15nS
ECS-3953M	1.8432-32.00MHz - 15mA Max. 40.00-66.666MHz - 25mA Max. 80.00MHz - 30mA Max.	5nS
ECS-3953M-BN	1.8-36.0MHz - 15mA Max. 36.1-70.0MHz - 25mA Max. 70.1-100.0MHz - 30mA Max. 100.1-125.0MHz - 35mA Max.	15nS

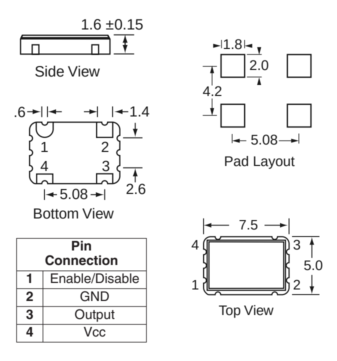

Pin Connection	
1	Enable/Disable
2	GND
3	Output
4	Vcc

Frequency (MHz)	Supply Voltage (V)	Operating Temperature	Frequency Tolerance	Output Load HCMOS	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	ECS Part No.
ECS-3951C RoHS Compliant												
1.843200	5.0	0°C ~ 70°C	±100ppm	30pF	XC653CT-ND	5.25	4.73	3.94	3.15	XC653TR-ND	2625.00	ECS-3951C-018-TR
3.686400	5.0	0°C ~ 70°C	±100ppm	30pF	XC654CT-ND	5.25	4.73	3.94	3.15	XC654TR-ND	2625.00	ECS-3951C-036-TR
12.000000	5.0	0°C ~ 70°C	±100ppm	30pF	XC655CT-ND	5.25	4.73	3.94	3.15	XC655TR-ND	2625.00	ECS-3951C-120-TR
16.000000	5.0	0°C ~ 70°C	±100ppm	30pF	XC656CT-ND	5.25	4.73	3.94	3.15	XC656TR-ND	2625.00	ECS-3951C-160-TR
20.000000	5.0	0°C ~ 70°C	±100ppm	30pF	XC657CT-ND	5.25	4.73	3.94	3.15	XC657TR-ND	2625.00	ECS-3951C-200-TR
33.000000	5.0	0°C ~ 70°C	±100ppm	30pF	XC658CT-ND	5.25	4.73	3.94	3.15	XC658TR-ND	2625.00	ECS-3951C-330-TR
40.000000	5.0	0°C ~ 70°C	±100ppm	30pF	XC659CT-ND	5.25	4.73	3.94	3.15	XC659TR-ND	2625.00	ECS-3951C-400-TR
50.000000	5.0	0°C ~ 70°C	±100ppm	30pF	XC660CT-ND	5.25	4.73	3.94	3.15	XC660TR-ND	2625.00	ECS-3951C-500-TR
65.000000	5.0	0°C ~ 70°C	±100ppm	30pF	XC661CT-ND	5.25	4.73	3.94	3.15	XC661TR-ND	2625.00	ECS-3951C-650-TR
66.666000	5.0	0°C ~ 70°C	±100ppm	30pF	XC662CT-ND	5.25	4.73	3.94	3.15	XC662TR-ND	2625.00	ECS-3951C-666-TR
ECS-3951M RoHS Compliant												
1.843200	5.0	-10°C ~ 70°C	±50ppm	30pF	XC780CT-ND	5.25	4.73	3.94	3.15	XC780TR-ND	2625.00	ECS-3951M-018-B-TR
3.686400	5.0	-10°C ~ 70°C	±50ppm	30pF	XC781CT-ND	5.25	4.73	3.94	3.15	XC781TR-ND	2625.00	ECS-3951M-036-B-TR
12.000000	5.0	-10°C ~ 70°C	±50ppm	30pF	XC782CT-ND	5.25	4.73	3.94	3.15	XC782TR-ND	2625.00	ECS-3951M-120-B-TR
16.000000	5.0	-10°C ~ 70°C	±50ppm	30pF	XC783CT-ND	5.25	4.73	3.94	3.15	XC783TR-ND	2625.00	ECS-3951M-160-B-TR
20.000000	5.0	-10°C ~ 70°C	±50ppm	30pF	XC784CT-ND	5.25	4.73	3.94	3.15	XC784TR-ND	2625.00	ECS-3951M-200-B-TR
33.000000	5.0	-10°C ~ 70°C	±50ppm	30pF	XC785CT-ND	5.25	4.73	3.94	3.15	XC785TR-ND	2625.00	ECS-3951M-330-B-TR
40.000000	5.0	-10°C ~ 70°C	±50ppm	30pF	XC786CT-ND	5.25	4.73	3.94	3.15	XC786TR-ND	2625.00	ECS-3951M-400-B-TR
50.000000	5.0	-10°C ~ 70°C	±50ppm	30pF	XC787CT-ND	5.25	4.73	3.94	3.15	XC787TR-ND	2625.00	ECS-3951M-500-B-TR
65.000000	5.0	-10°C ~ 70°C	±50ppm	30pF	XC788CT-ND	5.25	4.73	3.94	3.15	XC788TR-ND	2625.00	ECS-3951M-650-B-TR
66.666000	5.0	-10°C ~ 70°C	±50ppm	30pF	XC789CT-ND	5.25	4.73	3.94	3.15	XC789TR-ND	2625.00	ECS-3951M-666-B-TR
ECS-3951M Extended Temperature RoHS Compliant												
1.843200	5.0	-40°C ~ 85°C	±50ppm	30pF	XC291CT-ND	5.55	5.00	4.17	3.33	XC291TR-ND	2775.00	ECS-3951M-018-BN-TR
3.579545	5.0	-40°C ~ 85°C	±50ppm	30pF	XC292CT-ND	5.55	5.00	4.17	3.33	XC292TR-ND	2775.00	ECS-3951M-035-BN-TR
3.686400	5.0	-40°C ~ 85°C	±50ppm	30pF	XC293CT-ND	5.55	5.00	4.17	3.33	XC293TR-ND	2775.00	ECS-3951M-036-BN-TR
4.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC294CT-ND	5.55	5.00	4.17	3.33	XC294TR-ND	2775.00	ECS-3951M-040-BN-TR
8.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC295CT-ND	5.55	5.00	4.17	3.33	XC295TR-ND	2775.00	ECS-3951M-080-BN-TR
10.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC296CT-ND	5.55	5.00	4.17	3.33	XC296TR-ND	2775.00	ECS-3951M-100-BN-TR
12.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC297CT-ND	5.55	5.00	4.17	3.33	XC297TR-ND	2775.00	ECS-3951M-120-BN-TR
16.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC298CT-ND	5.55	5.00	4.17	3.33	XC298TR-ND	2775.00	ECS-3951M-160-BN-TR
20.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC299CT-ND	5.55	5.00	4.17	3.33	XC299TR-ND	2775.00	ECS-3951M-200-BN-TR
24.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC300CT-ND	5.55	5.00	4.17	3.33	XC300TR-ND	2775.00	ECS-3951M-240-BN-TR
25.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC321CT-ND	5.55	5.00	4.17	3.33	XC321TR-ND	2775.00	ECS-3951M-250-BN-TR
32.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC322CT-ND	5.55	5.00	4.17	3.33	XC322TR-ND	2775.00	ECS-3951M-320-BN-TR
40.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC323CT-ND	5.55	5.00	4.17	3.33	XC323TR-ND	2775.00	ECS-3951M-400-BN-TR
50.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC324CT-ND	5.55	5.00	4.17	3.33	XC324TR-ND	2775.00	ECS-3951M-500-BN-TR
66.666000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC325CT-ND	5.55	5.00	4.17	3.33	XC325TR-ND	2775.00	ECS-3951M-666-BN-TR
80.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC326CT-ND	5.55	5.00	4.17	3.33	XC326TR-ND	2775.00	ECS-3951M-800-BN-TR
100.000000	5.0	-40°C ~ 85°C	±50ppm	30pF	XC327CT-ND	5.55	5.00	4.17	3.33	XC327TR-ND	2775.00	ECS-3951M-1000-BN-TR
ECS-3953C RoHS Compliant												
20.000000	3.3	0°C ~ 70°C	±100ppm	15pF	XC721CT-ND	5.25	4.73	3.94	3.15	XC721TR-ND	2625.00	ECS-3953C-200-TR
24.000000	3.3	0°C ~ 70°C	±100ppm	15pF	XC722CT-ND	5.25	4.73	3.94	3.15	XC722TR-ND	2625.00	ECS-3953C-240-TR
25.000000	3.3	0°C ~ 70°C	±100ppm	15pF	XC723CT-ND	5.25	4.73	3.94	3.15	XC723TR-ND	2625.00	ECS-3953C-250-TR
32.000000	3.3	0°C ~ 70°C	±100ppm	15pF	XC724CT-ND	5.25	4.73	3.94	3.15	XC724TR-ND	2625.00	ECS-3953C-320-TR
40.000000	3.3	0°C ~ 70°C	±100ppm	15pF	XC725CT-ND	5.25	4.73	3.94	3.15	XC725TR-ND	2625.00	ECS-3953C-400-TR
50.000000	3.3	0°C ~ 70°C	±100ppm	15pF	XC726CT-ND	5.25	4.73	3.94	3.15	XC726TR-ND	2625.00	ECS-3953C-500-TR
66.666000	3.3	0°C ~ 70°C	±100ppm	15pF	XC727CT-ND	5.25	4.73	3.94	3.15	XC727TR-ND	2625.00	ECS-3953C-666-TR
80.000000	3.3	0°C ~ 70°C	±100ppm	15pF	XC728CT-ND	5.25	4.73	3.94	3.15	XC728TR-ND	2625.00	ECS-3953C-800-TR
ECS-3953M RoHS Compliant												
1.843200	3.3	-10°C ~ 70°C	±50ppm	15pF	XC284CT-ND	5.25	4.73	3.94	3.15	XC284TR-ND	2625.00	ECS-3953M-018-B-TR
3.686400	3.3	-10°C ~ 70°C	±50ppm	15pF	XC285CT-ND	5.25	4.73	3.94	3.15	XC285TR-ND	2625.00	ECS-3953M-036-B-TR
4.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC286CT-ND	5.25	4.73	3.94	3.15	XC286TR-ND	2625.00	ECS-3953M-040-B-TR
8.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC287CT-ND	5.25	4.73	3.94	3.15	XC287TR-ND	2625.00	ECS-3953M-080-B-TR
10.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC288CT-ND	5.25	4.73	3.94	3.15	XC288TR-ND	2625.00	ECS-3953M-100-B-TR
12.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC289CT-ND	5.25	4.73	3.94	3.15	XC289TR-ND	2625.00	ECS-3953M-120-B-TR
16.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC290CT-ND	5.25	4.73	3.94	3.15	XC290TR-ND	2625.00	ECS-3953M-160-B-TR
20.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC790CT-ND	5.25	4.73	3.94	3.15	XC790TR-ND	2625.00	ECS-3953M-200-B-TR
24.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC791CT-ND	5.25	4.73	3.94	3.15	XC791TR-ND	2625.00	ECS-3953M-240-B-TR
25.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC792CT-ND	5.25	4.73	3.94	3.15	XC792TR-ND	2625.00	ECS-3953M-250-B-TR
32.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC793CT-ND	5.25	4.73	3.94	3.15	XC793TR-ND	2625.00	ECS-3953M-320-B-TR
40.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC794CT-ND	5.25	4.73	3.94	3.15	XC794TR-ND	2625.00	ECS-3953M-400-B-TR
48.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC1016CT-ND	5.25	4.73	3.94	3.15	XC1016TR-ND	2625.00	ECS-3953M-480-B-TR
50.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC795CT-ND	5.25	4.73	3.94	3.15	XC795TR-ND	2625.00	ECS-3953M-500-B-TR
66.666000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC796CT-ND	5.25	4.73	3.94	3.15	XC796TR-ND	2625.00	ECS-3953M-666-B-TR
80.000000	3.3	-10°C ~ 70°C	±50ppm	15pF	XC797CT-ND	5.25	4.73	3.94	3.15	XC797TR-ND	2625.00	ECS-3953M-800-B-TR
ECS-3953M Extended Temperature RoHS Compliant												
1.843200	3.3	-40°C ~ 85°C	±50ppm	15pF	XC329CT-ND	5.55	5.00	4.17	3.33	XC329TR-ND	2775.00	ECS-3953M-018-BN-TR
3.579545	3.3	-40°C ~ 85°C	±50ppm	15pF	XC330CT-ND	5.55	5.00	4.17	3.33	XC330TR-ND	2775.00	ECS-3953M-035-BN-TR
3.686400	3.3	-40°C ~ 85°C	±50ppm	15pF	XC331CT-ND	5.55	5.00	4.17	3.33	XC331TR-ND	2775.00	ECS-3953M-036-BN-TR
4.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC332CT-ND	5.55	5.00	4.17	3.33	XC332TR-ND	2775.00	ECS-3953M-040-BN-TR
8.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC333CT-ND	5.55	5.00	4.17	3.33	XC333TR-ND	2775.00	ECS-3953M-080-BN-TR
10.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC334CT-ND	5.55	5.00	4.17	3.33	XC334TR-ND	2775.00	ECS-3953M-100-BN-TR
12.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC335CT-ND	5.55	5.00	4.17	3.33	XC335TR-ND	2775.00	ECS-3953M-120-BN-TR
16.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC336CT-ND	5.55	5.00	4.17	3.33	XC336TR-ND	2775.00	ECS-3953M-160-BN-TR
20.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC337CT-ND	5.55	5.00	4.17	3.33	XC337TR-ND	2775.00	ECS-3953M-200-BN-TR
24.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC338CT-ND	5.55	5.00	4.17	3.33	XC338TR-ND	2775.00	ECS-3953M-240-BN-TR
25.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC339CT-ND	5.55	5.00	4.17	3.33	XC339TR-ND	2775.00	ECS-3953M-250-BN-TR
32.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC340CT-ND	5.55	5.00	4.17	3.33	XC340TR-ND	2775.00	ECS-3953M-320-BN-TR
40.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC341CT-ND	5.55	5.00	4.17	3.33	XC341TR-ND	2775.00	ECS-3953M-400-BN-TR
50.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC342CT-ND	5.55	5.00	4.17	3.33	XC342TR-ND	2775.00	ECS-3953M-500-BN-TR
66.666000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC343CT-ND	5.55	5.00	4.17	3.33	XC343TR-ND	2775.00	ECS-3953M-666-BN-TR
80.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC344CT-ND	5.55	5.00	4.17	3.33	XC344TR-ND	2775.00	ECS-3953M-800-BN-TR
100.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC345CT-ND	5.55	5.00	4.17	3.33	XC345TR-ND	2775.00	ECS-3953M-1000-BN-TR
125.000000	3.3	-40°C ~ 85°C	±50ppm	15pF	XC346CT-ND	5.55	5.00	4.17	3.33	XC346TR-ND	2775.00	ECS-3953M-1250-BN-TR

ECS-300C Series
Dual Output Oscillator

Electrical Characteristics:
• **Frequency Tolerance:** ±0.01% • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Supply Voltage:** 5V • **Supply Current:** 20mA • **Output Load CMOS:** 15pF • **Output Voltage:** 4.5V (VOH) • **Output Voltage:** .5V (VOL) • **Output Symmetry:** 40% ~ 60% • **Rise Time CMOS:** 15ns • **Fall Time CMOS:** 15ns • **Start-up Time:** 2ms

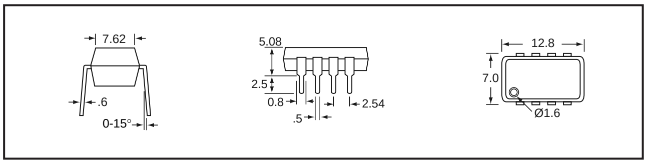

SETTING OF DIVIDING OUTPUT					
Input				Output	
Select				F (Original Frequency)	D (Divided Waveform)
C	B	A	ST		
X	X	X	L	L	L
L	L	L	H	fo clock	fo 1/2 clock
L	L	H	H	fo clock	fo 1/22clock
L	H	L	H	fo clock	fo 1/23clock
L	H	H	H	fo clock	fo 1/24clock
H	L	L	H	fo clock	fo 1/25clock
H	L	H	H	fo clock	fo 1/26clock
H	H	L	H	fo clock	fo 1/27clock
H	H	H	H	fo clock	fo 1/28clock

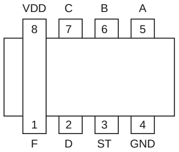

Pin Connection	
1	Output
2	Dividing Ratio
3	Standby
4	GND
5	A (Programming)
6	B (Programming)
7	C (Programming)
8	VDD (5V)

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
12.000000	XC301-ND	5.35	4.46	3.57	2.88	ECS-300C-120
12.288000	XC302-ND	5.35	4.46	3.57	2.88	ECS-300C-122.8
12.800000	XC303-ND	5.35	4.46	3.57	2.88	ECS-300C-128
14.318180	XC304-ND	5.35	4.46	3.57	2.88	ECS-300C-143
14.745600	XC305-ND	5.35	4.46	3.57	2.88	ECS-300C-147.4
15.974400	XC306-ND	5.35	4.46	3.57	2.88	ECS-300C-159.7
16.000000	XC307-ND	5.35	4.46	3.57	2.88	ECS-300C-160
16.384000	XC308-ND	5.35	4.46	3.57	2.88	ECS-300C-163.8
17.734476	XC309-ND	5.35	4.46	3.57	2.88	ECS-300C-177.3
18.432000	XC310-ND	5.35	4.46	3.57	2.88	ECS-300C-184
19.660800	XC311-ND	5.35	4.46	3.57	2.88	ECS-300C-196.6
20.000000	XC312-ND	5.35	4.46	3.57	2.88	ECS-300C-200
24.000000	XC313-ND	5.35	4.46	3.57	2.88	ECS-300C-240
RoHS Compliant						
12.000000	XC1170-ND	5.35	4.46	3.57	2.88	ECS-300CX-120
12.800000	XC1171-ND	5.35	4.46	3.57	2.88	ECS-300CX-128
14.318180	XC1172-ND	5.35	4.46	3.57	2.88	ECS-300CX-143
16.000000	XC1173-ND	5.35	4.46	3.57	2.88	ECS-300CX-160
16.384000	XC1174-ND	5.35	4.46	3.57	2.88	ECS-300CX-163.8
18.432000	XC1175-ND	5.35	4.46	3.57	2.88	ECS-300CX-184
20.000000	XC1176-ND	5.35	4.46	3.57	2.88	ECS-300CX-200
24.000000	XC1177-ND	5.35	4.46	3.57	2.88	ECS-300CX-240

ECS-327SMO Series
SMD Clock Oscillator

Specifications:
• Frequency Stability: -60ppm Min., +30ppm Max. @ -10°C ~ 60°C; -140ppm Minimum, +30ppm Max. @ -40°C ~ 85°C • "0" Level: Vcc x 0.1V Max. • "1" Level: Vcc x 0.9V Minimum • **Operating Temperature:** -40°C ~ 85°C • **Output Load CMOS:** 15pF • **Storage Temperature:** -40°C ~ 85°C • **Supply Voltage:** 3.3V • **Supply Current:** 15µA • **Output Symmetry:** 40% ~ 60% • **Rise Time CMOS:** 200ns • **Fall Time CMOS:** 200ns

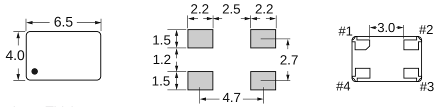

Package Thickness: 2.0mm

Pin Connection	
1	NC
2	Ground
3	Output
4	Vcc

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	ECS Part No.
RoHS Compliant							
32.768	XC777CT-ND	6.74	5.52	4.90	XC777TR-ND	3430.00/M	ECS-327SMO-TR

Half Size Clock Oscillators

Electrical Characterisitcs:
• **Frequency Stability:** ±50ppm Max. • **Supply Voltage:** 5V ±0.25V • **Input Current:** 4.000 ~ 25.000MHz: 25mA; 25.000 ~ 50.000MHz: 46mA; 50.000 ~ 80.000MHz: 77mA • **Output Symmetry @ 2.5V:** 4.000 ~ 80.000MHz: 45% Minimum, 55% Max. • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Rise Time (0.5V ~ 4.5V):** 5nS • **Fall Time (4.5V ~ 0.5V):** 5nS • **Output Voltage (4.000 ~ 80.000MHz):** IOL: 16mA, 0.5V Max.; IOH: -16mA, 4.5V Minimum • **Output Current (4.000 ~ 80.000MHz):** VOL: 0.5V, 16mA Max.; VOH: 4.5V: -16mA Max. • **Output Load:** TTL: 10 TTL Max.; HCMOS: 50pf • **Start up Time (4.000 ~ 80.000MHz):** 10mS • **Output Enable/Disable Time:** 100nS

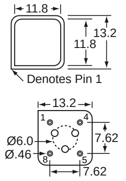

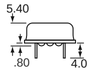

Pin Connection	
1	Enable/Disable
4	GND (Case)
5	Output
8	+5 VDC

Enable / Disable Function	
INH (Pin 1)	Output (Pin 5)
Open*	Active
1' Level Vih ≥ 2.2V	Active
0' Level Vil ≤ 0.8V	High Z

* An internal pullup resistor from Pin 1 to Pin 8 allows active output if Pin 1 is left open

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
4.00000	XC259-ND	2.63	2.37	1.89	1.68	ECS-2200B-040
4.91520	XC260-ND	2.63	2.37	1.89	1.68	ECS-2200B-049
6.00000	XC261-ND	2.63	2.37	1.89	1.68	ECS-2200B-060
6.14400	XC262-ND	2.63	2.37	1.89	1.68	ECS-2200B-061
7.37280	XC263-ND	2.63	2.37	1.89	1.68	ECS-2200B-073
8.00000	XC264-ND	2.63	2.37	1.89	1.68	ECS-2200B-080
9.21600	XC265-ND	2.63	2.37	1.89	1.68	ECS-2200B-092.1
9.83040	XC266-ND	2.63	2.37	1.89	1.68	ECS-2200B-098
10.00000	XC267-ND	2.63	2.37	1.89	1.68	ECS-2200B-100
11.05920	XC268-ND	2.63	2.37	1.89	1.68	ECS-2200B-110.5
12.00000	XC269-ND	2.63	2.37	1.89	1.68	ECS-2200B-120
14.31818	XC270-ND	2.63	2.37	1.89	1.68	ECS-2200B-143
16.00000	XC271-ND	2.63	2.37	1.89	1.68	ECS-2200B-160
18.43200	XC272-ND	2.63	2.37	1.89	1.68	ECS-2200B-184
19.66080	XC273-ND	2.63	2.37	1.89	1.68	ECS-2200B-196
20.00000	XC274-ND	2.63	2.37	1.89	1.68	ECS-2200B-200
24.00000	XC275-ND	2.63	2.37	1.89	1.68	ECS-2200B-240
25.00000	XC276-ND	2.63	2.37	1.89	1.68	ECS-2200B-250
28.32200	XC277-ND	2.63	2.37	1.89	1.68	ECS-2200B-283
32.00000	XC278-ND	2.63	2.37	1.89	1.68	ECS-2200B-320
40.00000	XC279-ND	2.63	2.37	1.89	1.68	ECS-2200B-400
48.00000	XC280-ND	2.63	2.37	1.89	1.68	ECS-2200B-480
50.00000	XC281-ND	2.63	2.37	1.89	1.68	ECS-2200B-500
66.66600	XC282-ND	2.63	2.37	1.89	1.68	ECS-2200B-666
80.00000	XC283-ND	2.63	2.37	1.89	1.68	ECS-2200B-800
RoHS Compliant						
4.00000	XC1178-ND	2.63	2.37	1.89	1.68	ECS-2200BX-040
4.91520	XC1179-ND	2.63	2.37	1.89	1.68	ECS-2200BX-049
6.00000	XC1180-ND	2.63	2.37	1.89	1.68	ECS-2200BX-060
7.37280	XC1181-ND	2.63	2.37	1.89	1.68	ECS-2200BX-073
8.00000	XC1182-ND	2.63	2.37	1.89	1.68	ECS-2200BX-080
9.83040	XC1183-ND	2.63	2.37	1.89	1.68	ECS-2200BX-098
10.00000	XC1184-ND	2.63	2.37	1.89	1.68	ECS-2200BX-100
11.05920	XC1185-ND	2.63	2.37	1.89	1.68	ECS-2200BX-110.5
16.00000	XC1186-ND	2.63	2.37	1.89	1.68	ECS-2200BX-160
19.66080	XC1187-ND	2.63	2.37	1.89	1.68	ECS-2200BX-196
20.00000	XC1188-ND	2.63	2.37	1.89	1.68	ECS-2200BX-200
24.00000	XC1189-ND	2.63	2.37	1.89	1.68	ECS-2200BX-240
32.00000	XC1190-ND	2.63	2.37	1.89	1.68	ECS-2200BX-320
40.00000	XC1191-ND	2.63	2.37	1.89	1.68	ECS-2200BX-400
48.00000	XC1192-ND	2.63	2.37	1.89	1.68	ECS-2200BX-480
50.00000	XC1193-ND	2.63	2.37	1.89	1.68	ECS-2200BX-500
80.00000	XC1194-ND	2.63	2.37	1.89	1.68	ECS-2200BX-800

A463-ND Aries Electronics Inc. Half Size 4-Pin Oscillator Sockets....... **$.55/1** **$11.60/25** **$37.59/100**

Full Size TTL Clock Oscillators

Electrical Characteristics:
• **Frequency Stability:** ±100ppm Max. • **Supply Voltage:** 5V ±0.25V • **Input Current: 1.000 ~ 8.000MHz:** 15mA; 8.000 ~ 24.000MHz: 30mA; 24.000 ~ 66.666MHz: 70 mA • **Output Symmetry @ 1.4V: 1.000 ~ 8.000MHz:** 45% Minimum, 55% Max.; 8.000 ~ 66.666MHz: 40% Minimum, 60% Max. • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Rise Time:** 1.000 ~ 25.000MHz @ 0.4V ~ 2.4V: 10nS; 25.000 ~ 66.666MHz @ 0.5V ~ 2.4V: 5nS • **Fall Time:** 1.000 ~ 25.000MHz @ 0.4V ~ 2.4V: 10nS; 25.000 ~ 66.666MHz @ 0.5V ~ 2.4V: 5nS • **Output Voltage (IOL = 20mA):** 1.000 ~ 25.000MHz: 0.4V Max.; 25.000 ~ 66.666MHz: 0.5V Max. • **Output Voltage (IOH = 1mA):** 2.4V Minimum. • **Output Current: VOL = 0.5V:** 16mA Max.; VOH = 2.4V: -4mA Max. • **Output Load: TTL:** 10 TTL Max. • **Start up Time:** 1.000 ~ 3.500MHz: 20mS; 3.500 ~ 4.000MHz: 35mS; 4.000 ~ 6.000MHz: 30mS; 6.000 ~ 20.000MHz: 20mS; 20.000 ~ 66.666MHz: 15mS

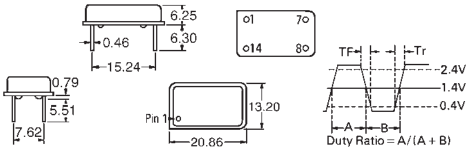

Pin Connection	
1	NC
7	GND/Case GND
8	Output
14	+5 VDC

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1.000000	X101-ND	1.88	1.69	1.35	1.20	ECS-100A-010
1.228800	X102-ND	1.88	1.69	1.35	1.20	ECS-10 0A-012.2
1.843200	X103-ND	1.88	1.69	1.35	1.20	ECS-100A-018
2.000000	X104-ND	1.88	1.69	1.35	1.20	ECS-100A-020
2.457600	X105-ND	1.88	1.69	1.35	1.20	ECS-100A-024

(Continued)

Full Size TTL Clock Oscillators *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
3.579545	XC227-ND	1.88	1.69	1.35	1.20	ECS-100A-035
3.686400	X106-ND	1.88	1.69	1.35	1.20	ECS-100A-036
4.000000	X107-ND	1.88	1.69	1.35	1.20	ECS-100A-040
4.915200	X108-ND	1.88	1.69	1.35	1.20	ECS-100A-049
5.000000	X109-ND	1.88	1.69	1.35	1.20	ECS-100A-050
5.068800	X110-ND	1.88	1.69	1.35	1.20	ECS-100A-051
6.000000	X111-ND	1.88	1.69	1.35	1.20	ECS-100A-060
6.144000	X122-ND	1.88	1.69	1.35	1.20	ECS-100A-061
7.372800	X123-ND	1.88	1.69	1.35	1.20	ECS-100A-073
8.000000	X112-ND	1.88	1.69	1.35	1.20	ECS-100A-080
9.216000	X113-ND	1.88	1.69	1.35	1.20	ECS-100A-092.1
9.830400	X124-ND	1.88	1.69	1.35	1.20	ECS-100A-098.3
10.000000	X114-ND	1.88	1.69	1.35	1.20	ECS-100A-100
11.059200	X125-ND	1.88	1.69	1.35	1.20	ECS-100A-110.5
12.000000	X126-ND	1.88	1.69	1.35	1.20	ECS-100A-120
14.318180	X115-ND	1.88	1.69	1.35	1.20	ECS-100A-143
14.745600	X127-ND	1.88	1.69	1.35	1.20	ECS-100A-147.4
16.000000	X116-ND	1.88	1.69	1.35	1.20	ECS-100A-160
16.257000	X128-ND	1.88	1.69	1.35	1.20	ECS-100A-162.5
18.000000	X117-ND	1.88	1.69	1.35	1.20	ECS-100A-180
18.432000	X118-ND	1.88	1.69	1.35	1.20	ECS-100A-184
19.660800	XC314-ND	1.88	1.69	1.35	1.20	ECS-100A-196.6
20.000000	X119-ND	1.88	1.69	1.35	1.20	ECS-100A-200
24.000000	X129-ND	1.88	1.69	1.35	1.20	ECS-100A-240
25.000000	XC315-ND	1.88	1.69	1.35	1.20	ECS-100A-250
25.175000	X130-ND	1.88	1.69	1.35	1.20	ECS-100A-251.7
28.322000	X131-ND	1.88	1.69	1.35	1.20	ECS-100A-283.2
30.000000	XC316-ND	1.88	1.69	1.35	1.20	ECS-100A-300
32.000000	X132-ND	1.88	1.69	1.35	1.20	ECS-100A-320
32.514000	X133-ND	1.88	1.69	1.35	1.20	ECS-100A-325.1
35.000000	X134-ND	1.88	1.69	1.35	1.20	ECS-100A-350
40.000000	X120-ND	1.88	1.69	1.35	1.20	ECS-100A-400
48.000000	X135-ND	1.88	1.69	1.35	1.20	ECS-100A-480
50.000000	X121-ND	1.88	1.69	1.35	1.20	ECS-100A-500
64.000000	X136-ND	1.88	1.69	1.35	1.20	ECS-100A-640
66.666000	XC228-ND	1.88	1.69	1.35	1.20	ECS-100A-666
RoHS Compliant						
1.000000	X937-ND	1.88	1.69	1.35	1.20	ECS-100AX-010
1.228800	X938-ND	1.88	1.69	1.35	1.20	ECS-100AX-012.2
1.843200	X939-ND	1.88	1.69	1.35	1.20	ECS-100AX-018
2.000000	X940-ND	1.88	1.69	1.35	1.20	ECS-100AX-020
3.579545	XC1154-ND	1.88	1.69	1.35	1.20	ECS-100AX-035
3.686400	X941-ND	1.88	1.69	1.35	1.20	ECS-100AX-036
4.000000	X942-ND	1.88	1.69	1.35	1.20	ECS-100AX-040
6.000000	X943-ND	1.88	1.69	1.35	1.20	ECS-100AX-060
6.144000	X952-ND	1.88	1.69	1.35	1.20	ECS-100AX-061
7.372800	X953-ND	1.88	1.69	1.35	1.20	ECS-100AX-073
8.000000	X944-ND	1.88	1.69	1.35	1.20	ECS-100AX-080
9.830400	X954-ND	1.88	1.69	1.35	1.20	ECS-100AX-098.3
10.000000	X945-ND	1.88	1.69	1.35	1.20	ECS-100AX-100
11.059200	X955-ND	1.88	1.69	1.35	1.20	ECS-100AX-110.5
14.318180	X946-ND	1.88	1.69	1.35	1.20	ECS-100AX-143
14.745600	X956-ND	1.88	1.69	1.35	1.20	ECS-100AX-147.4
16.000000	X947-ND	1.88	1.69	1.35	1.20	ECS-100AX-160
18.432000	X948-ND	1.88	1.69	1.35	1.20	ECS-100AX-184
19.660800	XC1155-ND	1.88	1.69	1.35	1.20	ECS-100AX-196.6
20.000000	X949-ND	1.88	1.69	1.35	1.20	ECS-100AX-200
25.000000	XC1156-ND	1.88	1.69	1.35	1.20	ECS-100AX-250
30.000000	XC1157-ND	1.88	1.69	1.35	1.20	ECS-100AX-300
32.000000	X957-ND	1.88	1.69	1.35	1.20	ECS-100AX-320
40.000000	X950-ND	1.88	1.69	1.35	1.20	ECS-100AX-400
48.000000	X958-ND	1.88	1.69	1.35	1.20	ECS-100AX-480
50.000000	X951-ND	1.88	1.69	1.35	1.20	ECS-100AX-500
64.000000	X959-ND	1.88	1.69	1.35	1.20	ECS-100AX-640

A462-ND Aries Electronics Inc. Full Size 4-Pin Oscillator Sockets....... **$.55/1 $11.60/25 $37.59/100**

Half Size TTL Clock Oscillators

Electrical Characteristics:

- **Frequency Stability:** ±100ppm Max. • **Supply Voltage:** 5V ±0.25V • **Input Current:** 1.000 ~ 25.000MHz: 25mA; 25.000 ~ 50.000MHz: 46mA; 50.000 ~ 66.666MHz: 77mA • **Output Symmetry @ 2.5V:** 1.000 ~ 66.666MHz: 45% Minimum, 55% Max. • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -55°C ~ 125C • **Rise Time (0.5V ~ 4.5V):** 5nS • **Fall Time (4.5V ~ 0.5V):** 5nS • **Output Voltage:** IOL: 16mA, 0.5V Max.; IOH: -16mA, 4.5V Minimum • **Output Current:** VOL: 0.5V, 16mA Max.; VOH: 4.5V, -16mA Max.
- **Output Load:** TTL: 10 TTL Max.; HCMOS: 50pf • **Start up Time:** 10mS

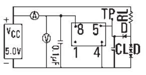

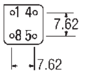

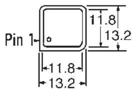

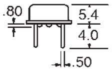

Pin Connection	
1	NC
4	GND
5	Output
8	Vcc

RL = 400 Ohm
D = Switching Diode 1N448
CL = 15pF Max.

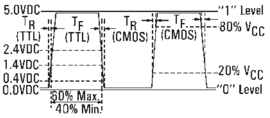

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
1.000000	XC229-ND	2.13	1.92	1.53	1.36	ECS-2100A-010
1.228800	XC230-ND	2.13	1.92	1.53	1.36	ECS-2100A-012.2
1.843200	XC231-ND	2.13	1.92	1.53	1.36	ECS-2100A-018
2.000000	XC232-ND	2.13	1.92	1.53	1.36	ECS-2100A-020
2.457600	XC233-ND	2.13	1.92	1.53	1.36	ECS-2100A-024
3.579545	XC235-ND	2.13	1.92	1.53	1.36	ECS-2100A-035
3.686400	XC234-ND	2.13	1.92	1.53	1.36	ECS-2100A-036
4.000000	XC202-ND	2.13	1.92	1.53	1.36	ECS-2100A-040
4.915200	XC236-ND	2.13	1.92	1.53	1.36	ECS-2100A-049
5.000000	XC237-ND	2.13	1.92	1.53	1.36	ECS-2100A-050
5.068800	XC238-ND	2.13	1.92	1.53	1.36	ECS-2100A-051
6.000000	XC239-ND	2.13	1.92	1.53	1.36	ECS-2100A-060
6.144000	XC240-ND	2.13	1.92	1.53	1.36	ECS-2100A-061
7.372800	X208-ND	2.13	1.92	1.53	1.36	ECS-2100A-073.2
8.000000	X209-ND	2.13	1.92	1.53	1.36	ECS-2100A-080
9.216000	XC241-ND	2.13	1.92	1.53	1.36	ECS-2100A-092.1
9.830400	XC242-ND	2.13	1.92	1.53	1.36	ECS-2100A-098.3
10.000000	XC243-ND	2.13	1.92	1.53	1.36	ECS-2100A-100
11.059200	XC244-ND	2.13	1.92	1.53	1.36	ECS-2100A-110.5
12.000000	XC245-ND	2.13	1.92	1.53	1.36	ECS-2100A-120
14.318180	XC246-ND	2.13	1.92	1.53	1.36	ECS-2100A-143
14.745600	XC247-ND	2.13	1.92	1.53	1.36	ECS-2100A-147.4
16.000000	X216-ND	2.13	1.92	1.53	1.36	ECS-2100A-160
16.257000	XC248-ND	2.13	1.92	1.53	1.36	ECS-2100A-162.5
18.000000	XC249-ND	2.13	1.92	1.53	1.36	ECS-2100A-180
18.432000	XC250-ND	2.13	1.92	1.53	1.36	ECS-2100A-184
19.660800	XC251-ND	2.13	1.92	1.53	1.36	ECS-2100A-196.6
20.000000	X220-ND	2.13	1.92	1.53	1.36	ECS-2100A-200
24.000000	X221-ND	2.13	1.92	1.53	1.36	ECS-2100A-240
25.000000	XC252-ND	2.13	1.92	1.53	1.36	ECS-2100A-250
25.175000	X222-ND	2.13	1.92	1.53	1.36	ECS-2100A-251.7
28.322000	X223-ND	2.13	1.92	1.53	1.36	ECS-2100A-283.2
30.000000	XC253-ND	2.13	1.92	1.53	1.36	ECS-2100A-300
32.000000	XC254-ND	2.13	1.92	1.53	1.36	ECS-2100A-320
32.514000	X224-ND	2.13	1.92	1.53	1.36	ECS-2100A-325.1
35.000000	XC255-ND	2.13	1.92	1.53	1.36	ECS-2100A-350
40.000000	X225-ND	2.13	1.92	1.53	1.36	ECS-2100A-400
48.000000	XC256-ND	2.13	1.92	1.53	1.36	ECS-2100A-480
50.000000	X226-ND	2.13	1.92	1.53	1.36	ECS-2100A-500
64.000000	XC257-ND	2.13	1.92	1.53	1.36	ECS-2100A-640
66.666000	XC258-ND	2.13	1.92	1.53	1.36	ECS-2100A-666
RoHS Compliant						
3.686400	XC1158-ND	2.13	1.92	1.53	1.36	ECS-2100AX-036
4.000000	X960-ND	2.13	1.92	1.53	1.36	ECS-2100AX-040
4.915200	XC1159-ND	2.13	1.92	1.53	1.36	ECS-2100AX-049
7.372800	X961-ND	2.13	1.92	1.53	1.36	ECS-2100AX-073.7
8.000000	X962-ND	2.13	1.92	1.53	1.36	ECS-2100AX-080
9.216000	XC1160-ND	2.13	1.92	1.53	1.36	ECS-2100AX-092.1
9.830400	XC1161-ND	2.13	1.92	1.53	1.36	ECS-2100AX-098.3
10.000000	XC1162-ND	2.13	1.92	1.53	1.36	ECS-2100AX-100
11.059200	XC1163-ND	2.13	1.92	1.53	1.36	ECS-2100AX-110.5
12.000000	XC1164-ND	2.13	1.92	1.53	1.36	ECS-2100AX-120
14.745600	XC1165-ND	2.13	1.92	1.53	1.36	ECS-2100AX-147.4
16.000000	X963-ND	2.13	1.92	1.53	1.36	ECS-2100AX-160
18.432000	XC1166-ND	2.13	1.92	1.53	1.36	ECS-2100AX-184
19.660800	XC1167-ND	2.13	1.92	1.53	1.36	ECS-2100AX-196.6
20.000000	X964-ND	2.13	1.92	1.53	1.36	ECS-2100AX-200
28.322000	X965-ND	2.13	1.92	1.53	1.36	ECS-2100AX-283.2
30.000000	XC1168-ND	2.13	1.92	1.53	1.36	ECS-2100AX-300
40.000000	X966-ND	2.13	1.92	1.53	1.36	ECS-2100AX-400
48.000000	XC1169-ND	2.13	1.92	1.53	1.36	ECS-2100AX-480
50.000000	X967-ND	2.13	1.92	1.53	1.36	ECS-2100AX-500

A463-ND Aries Electronics Inc. Half Size 4-Pin Oscillator Sockets....... **$.55/1 $11.60/25 $37.59/100**

SMD Clock Oscillators

Fig. 1

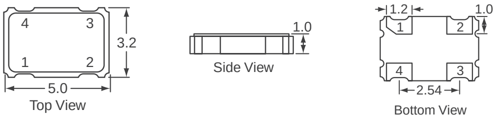

Top View
Side View
Bottom View

Fig. A

Pin Connector	
1	Tri-State
2	Ground
3	Output
4	Vcc

Fig. B

Pin Connector	
1	Tri-State
2	Ground
3	Output
4	Vcc

ECS-3963 (3V) Standby Control Voltage	
Pin 1 = Open	3 = Output
Pin 1 = +2.1V Min	3 = Output
Pin 1 = 0.9V Max	3 = No Oscillation

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	ECS Part No.
ECS-3518 1.8V - RoHS Compliant							
1A	4.00000	XC1066CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-040-B-TR
	8.00000	XC1067CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-080-B-TR
	10.00000	XC1068CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-100-B-TR
	12.00000	XC1069CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-120-B-TR
	14.31818	XC1070CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-143-B-TR
	20.00000	XC1071CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-200-B-TR
	24.00000	XC1072CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-240-B-TR
	25.00000	XC1073CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-250-B-TR
	32.00000	XC1074CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-320-B-TR
	33.33300	XC1075CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-333-B-TR
	40.00000	XC1076CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-400-B-TR
	48.00000	XC1077CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-480-B-TR
	50.00000	XC1078CT-ND	3.27	2.95	2.46	1635.00	ECS-3518-500-B-TR
	60.00000	XC1079CT-ND	3.57	3.22	2.68	1785.00	ECS-3518-600-B-TR
	64.00000	XC1080CT-ND	3.57	3.22	2.68	1785.00	ECS-3518-640-B-TR

* For Tape & Reel Part No., change CT-ND to TR-ND.

(Continued)

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	ECS Part No.
ECS-3518 1.8V - RoHS Compliant (cont.)							
1A	66.66600	XC1081CT-ND	3.57	3.22	2.68	1785.00	ECS-3518-666-B-TR
	80.00000	XC1082CT-ND	3.57	3.22	2.68	1785.00	ECS-3518-800-B-TR
	100.00000	XC1083CT-ND	6.57	5.92	4.93	3285.00	ECS-3518-1000-B-TR
	125.00000	XC1084CT-ND	7.47	6.73	5.61	3735.00	ECS-3518-1250-B-TR
ECS-3525 2.5V - RoHS Compliant							
1A	4.00000	XC1047CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-040-B-TR
	8.00000	XC1048CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-080-B-TR
	10.00000	XC1049CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-100-B-TR
	12.00000	XC1050CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-120-B-TR
	14.31818	XC1051CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-143-B-TR
	20.00000	XC1052CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-200-B-TR
	24.00000	XC1053CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-240-B-TR
	25.00000	XC1054CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-250-B-TR
	32.00000	XC1055CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-320-B-TR
	33.33300	XC1056CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-333-B-TR
	40.00000	XC1057CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-400-B-TR
	48.00000	XC1058CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-480-B-TR
	50.00000	XC1059CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-500-B-TR
	60.00000	XC1060CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-600-B-TR
	64.00000	XC1061CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-640-B-TR
	66.66600	XC1062CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-666-B-TR
	80.00000	XC1063CT-ND	3.27	2.95	2.46	1635.00	ECS-3525-800-B-TR
	100.00000	XC1064CT-ND	5.97	5.38	4.48	2985.00	ECS-3525-1000-B-TR
	125.00000	XC1065CT-ND	8.07	7.27	6.06	4035.00	ECS-3525-1250-B-TR
ECS-3963 3.0V - RoHS Compliant							
1B	4.00000	XC1028CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-040-BN-TR
	8.00000	XC1029CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-080-BN-TR
	10.00000	XC1030CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-100-BN-TR
	12.00000	XC1031CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-120-BN-TR
	14.31818	XC1032CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-143-BN-TR
	20.00000	XC1033CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-200-BN-TR
	24.00000	XC1034CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-240-BN-TR
	25.00000	XC1035CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-250-BN-TR
	32.00000	XC1036CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-320-BN-TR
	33.33300	XC1037CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-333-BN-TR
	40.00000	XC1038CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-400-BN-TR
	48.00000	XC1039CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-480-BN-TR
	50.00000	XC1040CT-ND	2.97	2.68	2.23	1485.00	ECS-3963-500-BN-TR
	60.00000	XC1041CT-ND	3.27	2.95	2.46	1635.00	ECS-3963-600-BN-TR
	64.00000	XC1042CT-ND	3.27	2.95	2.46	1635.00	ECS-3963-640-BN-TR
	66.66600	XC1043CT-ND	3.27	2.95	2.46	1635.00	ECS-3963-666-BN-TR
	80.00000	XC1044CT-ND	3.27	2.95	2.46	1635.00	ECS-3963-800-BN-TR
	100.00000	XC1045CT-ND	5.97	5.38	4.48	2985.00	ECS-3963-1000-BN-TR
	125.00000	XC1046CT-ND	8.07	7.27	6.06	4035.00	ECS-3963-1250-BN-TR

* For Tape & Reel Part No., change CT-ND to TR-ND.

ECS-8F Series SMD Clock Oscillators

Electrical Characteristics:
• **Frequency Tolerance:** ±100ppm • **Operating Temperature:** -10°C ~ 70°C • **Supply Voltage:** 5V • **Output Symmetry:** 40% ~ 60% • **Storage Temperature:** -55°C ~ 125°C • **Output Voltage:** -0.5V (VOH) Min. • **Output Voltage**.5V (VOL) Max. • **Output Current:** 16mA IIL; -16mA IIH • **Output Load TTL:** 10TTL • **Output Load CMOS:** 50pF • Enable/Disable Time: 100ns max.

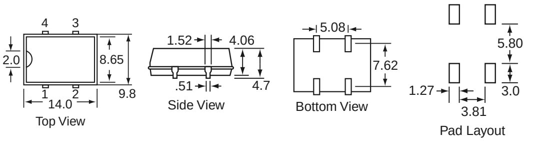

Pin Connection	
1	Enable/ Disable
2	GND
3	Output
4	+5V DC

Frequency (MHz)	Start-up Time Max.	Rise/ Fall Time	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	ECS Part No.
1.000000	4ms	8/8ns	XC703CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-010-TR
1.843200	4ms	8/8ns	XC704CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-018-TR
2.000000	4ms	8/8ns	XC705CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-020-TR
2.457600	4ms	8/8ns	XC706CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-024-TR
3.579545	4ms	8/8ns	XC707CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-035-TR
3.686400	4ms	8/8ns	XC708CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-036-TR
4.000000	4ms	8/8ns	XC635CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-040-TR
4.915200	4ms	8/8ns	XC636CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-049-TR
6.000000	4ms	8/8ns	XC637CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-060-TR
7.372800	4ms	8/8ns	XC709CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-073-TR
8.000000	4ms	8/8ns	XC638CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-080-TR
9.830400	4ms	8/8ns	XC710CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-098.3-TR
10.000000	4ms	8/8ns	XC639CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-100-TR
11.059200	4ms	8/8ns	XC711CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-110.5-TR
12.000000	4ms	8/8ns	XC640CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-120-TR
12.288000	4ms	8/8ns	XC712CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-122.8-TR
14.318180	4ms	8/8ns	XC641CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-143-TR
16.000000	4ms	8/8ns	XC642CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-160-TR
18.432000	4ms	8/8ns	XC643CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-184-TR
19.660800	4ms	8/8ns	XC713CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-196.6-TR
20.000000	4ms	8/8ns	XC644CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-200-TR
24.000000	4ms	8/8ns	XC645CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-240-TR
25.000000	4ms	8/8ns	XC714CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-250-TR
25.175000	4ms	8/8ns	XC646CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-251.7-TR
28.322000	4ms	8/8ns	XC647CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-283.2-TR

Frequency (MHz)	Start-up Time Max.	Rise/ Fall Time	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	ECS Part No.
32.000000	10ms	7/7ns	XC648CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-320-TR
32.514000	10ms	7/7ns	XC649CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-325.1-TR
40.000000	10ms	7/7ns	XC650CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-400-TR
48.000000	10ms	7/7ns	XC651CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-480-TR
50.000000	10ms	7/7ns	XC652CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-500-TR
66.666000	10ms	7/7ns	XC715CT-ND	2.97	2.48	1.98	1503.00	ECS-8FM-666-TR
RoHS Compliant								
1.000000	4ms	8/8ns	XC1342CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-010-TR
1.843200	4ms	8/8ns	XC1343CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-018-TR
2.000000	4ms	8/8ns	XC1344CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-020-TR
2.457600	4ms	8/8ns	XC1345CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-024-TR
3.579545	4ms	8/8ns	XC1346CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-035-TR
3.686400	4ms	8/8ns	XC1347CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-036-TR
4.000000	4ms	8/8ns	XC1328CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-040-TR
4.915200	4ms	8/8ns	XC1329CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-049-TR
6.000000	4ms	8/8ns	XC1330CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-060-TR
7.372800	4ms	8/8ns	XC1348CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-073-TR
8.000000	4ms	8/8ns	XC1331CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-080-TR
9.830400	4ms	8/8ns	XC1349CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-098.3-TR
10.000000	4ms	8/8ns	XC1332CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-100-TR
11.059200	4ms	8/8ns	XC1350CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-110.5-TR
12.288000	4ms	8/8ns	XC1351CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-122.8-TR
14.318180	4ms	8/8ns	XC1333CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-143-TR
16.000000	4ms	8/8ns	XC1334CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-160-TR
19.660800	4ms	8/8ns	XC1352CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-196.6-TR
20.000000	4ms	8/8ns	XC1335CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-200-TR
24.000000	4ms	8/8ns	XC1336CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-240-TR
25.000000	4ms	8/8ns	XC1353CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-250-TR
25.175000	4ms	8/8ns	XC1337CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-251.7-TR
32.000000	10ms	7/7ns	XC1338CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-320-TR
40.000000	10ms	7/7ns	XC1339CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-400-TR
48.000000	10ms	7/7ns	XC1340CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-480-TR
50.000000	10ms	7/7ns	XC1341CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-500-TR
66.666000	10ms	7/7ns	XC1354CT-ND	2.97	2.48	1.98	1503.00	ECS-8FMX-666-TR

* For Tape & Reel Part No., change CT-ND to TR-ND.

VC-TCO/VCXO

ECS-VXO-73: • Frequency Stability: 50ppm Max @ -10°C ~ 70°C • Control Voltage: 1.65V Typ • Storage Temperature: -40°C ~ 85°C • Supply Voltage: 3.3V

V-TXO-35SM: • Frequency Stability: 2.5ppm Max @ -30°C ~ 75°C • Control Voltage: 1.5V Typ • Storage Temperature: -40°C ~ 85°C • Supply Voltage: 3V

VC-TXO-39SM: • Frequency Stability: 2.5ppm @ -30°C ~ 75°C • Control Voltage: 1.5V Typ • Storage Temperature: -40°C ~ 85°C • Supply Voltage: 3V

Fig. 1

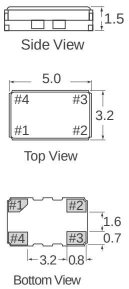

Fig. 2

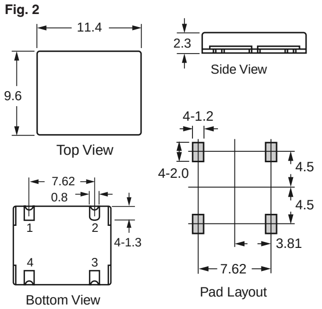

Fig. 3

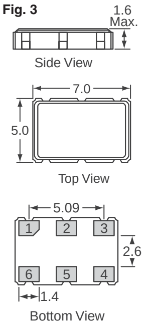

A

Pin Connection	
1	Vcontrol
2	GND
3	Output
4	Vcc

B

Pin Connections	
1	V Control
2	Tri-State
3	Ground
4	Output
5	NC
6	Vcc

ECS-VXO-73 Tri State Control Voltage	
VXO-73, Pad 2	Pad 4
Open	Oscillation
+2.2V Min	Oscillation
+0.8V Min	High Impedance

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Size	Pricing	ECS Part No.
VC-TXO-35SM RoHS Compliant								
1A	12.00	XC1018CT-ND	17.85	16.07	13.39	500	5355.00	VC-TXO-35SM-120-B-TR
	12.80	XC348CT-ND	14.85	13.37	11.14	1,000	7425.00	VC-TXO-35SM-128-B-TR
	13.00	XC1019CT-ND	17.85	16.07	13.39	1,000	8925.00	VC-TXO-35SM-130-B-TR
	14.40	XC1020CT-ND	17.85	16.07	13.39	500	5355.00	VC-TXO-35SM-144-B-TR
	16.80	XC349CT-ND	14.85	13.37	11.14	1,000	7425.00	VC-TXO-35SM-168-B-TR
	19.20	XC1021CT-ND	17.85	16.07	13.39	500	5355.00	VC-TXO-35SM-192-B-TR
	19.44	XC350CT-ND	14.85	13.37	11.14	1,000	7425.00	VC-TXO-35SM-194-B-TR
VC-TXO-39SM								
2A	10.00	X493CT-ND	15.13	12.38	11.00	500	4950.00	VC-TXO-39SM-100-TR
	12.80	X489CT-ND	15.13	12.38	11.00	500	4950.00	VC-TXO-39SM-128-TR
	13.00	X490CT-ND	15.13	12.38	11.00	500	4950.00	VC-TXO-39SM-130-TR
	16.80	X491CT-ND	15.13	12.38	11.00	500	4950.00	VC-TXO-39SM-168-TR
	19.44	X492CT-ND	15.13	12.38	11.00	500	4950.00	VC-TXO-39SM-194.4-TR
VXO-73 RoHS Compliant								
3B	19.44	XC1110CT-ND	3.87	3.49	2.91	500	1161.00	ECS-VXO-73-19.440-TR
	20.00	XC1111CT-ND	3.87	3.49	2.91	500	1161.00	ECS-VXO-73-20.00-TR
	27.00	XC1112CT-ND	3.87	3.49	2.91	500	1161.00	ECS-VXO-73-27.00-TR
	32.77	XC1113CT-ND	3.87	3.49	2.91	500	1161.00	ECS-VXO-73-32.768-TR
	35.33	XC1114CT-ND	3.87	3.49	2.91	500	1161.00	ECS-VXO-73-35.328-TR
	40.00	XC1115CT-ND	4.77	4.30	3.58	500	1431.00	ECS-VXO-73-40.00-TR
	44.74	XC1116CT-ND	5.67	5.11	4.26	500	1701.00	ECS-VXO-73-44.736-TR

* For Tape & Reel Part No., change CT-ND to TR-ND.

ECS INC. INTERNATIONAL

ECX-3S Series SMD Low Profile Quartz Crystals

The ECX-3S Series has a special high temperature seal which is able to withstand SMD soldering techniques. Housing for this crystal is made from the same rugged thermoplastic that is standard for integrated circuits.

Electrical Characteristics: • **Frequency Tolerance:** ±50ppm • **Shunt Capacitance:** 7pF • **Drive Level:** 100μW • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C • **Operating Mode:** Fundamental

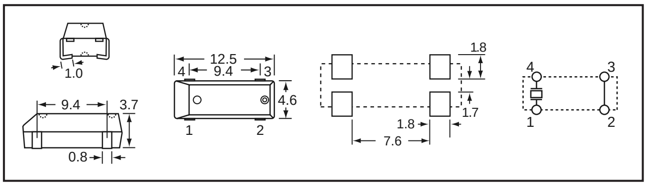

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing* 1,000	ECS Part No.
			1	10	100		
3.579545	Series	XC529CT-ND	2.03	1.69	1.35	1012.50	ECS-35-S-7S-TR
3.579545	17.0pF	XC501CT-ND •	2.03	1.69	1.35	1012.50	ECS-35-17-7S-TR
3.686400	Series	XC502CT-ND •	2.03	1.69	1.35	1012.50	ECS-36-S-7S-TR
3.686400	20.0pF	XC503CT-ND •	2.03	1.69	1.35	1012.50	ECS-36-20-7S-TR
4.000000	Series	XC504CT-ND •	2.03	1.69	1.35	1012.50	ECS-40-S-7S-TR
4.000000	20.0pF	XC505CT-ND •	2.03	1.69	1.35	1012.50	ECS-40-20-7S-TR
4.096000	16.0pF	XC500CT-ND	2.03	1.69	1.35	1012.50	ECS-41-16-7S-TR
4.194304	12.0pF	XC530CT-ND	2.03	1.69	1.35	1012.50	ECS-42-12-7S-TR
4.433618	20.0pF	XC506CT-ND •	2.03	1.69	1.35	1012.50	ECS-44-20-7S-TR
4.915200	Series	XC507CT-ND •	2.03	1.69	1.35	1012.50	ECS-49-S-7S-TR
4.915200	20.0pF	XC508CT-ND •	2.03	1.69	1.35	1012.50	ECS-49-20-7S-TR
5.000000	20.0pF	XC499CT-ND	2.03	1.69	1.35	1012.50	ECS-50-20-7S-TR
6.000000	Series	XC497CT-ND	2.03	1.69	1.35	1012.50	ECS-60-S-7S-TR
6.000000	32.0pF	XC498CT-ND	2.03	1.69	1.35	1012.50	ECS-60-32-7S-TR
6.144000	32.0pF	XC509CT-ND •	2.03	1.69	1.35	1012.50	ECS-61-32-7S-TR
6.553600	12.0pF	XC496CT-ND	2.03	1.69	1.35	1012.50	ECS-65-12-7S-TR
7.372800	Series	XC510CT-ND •	2.03	1.69	1.35	1012.50	ECS-73-S-7S-TR
7.372800	20.0pF	XC536CT-ND	2.03	1.69	1.35	1012.50	ECS-73-20-7S-TR
8.000000	Series	XC511CT-ND •	2.03	1.69	1.35	1012.50	ECS-80-S-7S-TR
8.000000	16.0pF	XC495CT-ND	2.03	1.69	1.35	1012.50	ECS-80-16-7S-TR
9.830400	Series	XC512CT-ND •	2.03	1.69	1.35	1012.50	ECS-98.3-S-7S-TR
9.830400	20.0pF	XC513CT-ND •	2.03	1.69	1.35	1012.50	ECS-98.3-20-7S-TR
10.000000	Series	XC514CT-ND •	2.03	1.69	1.35	1012.50	ECS-100-S-7S-TR
11.059200	Series	XC515CT-ND •	2.03	1.69	1.35	1012.50	ECS-110.5-S-7S-TR
11.059200	20.0pF	XC516CT-ND	2.03	1.69	1.35	1012.50	ECS-110.5-20-7S-TR
12.000000	Series	XC517CT-ND •	2.03	1.69	1.35	1012.50	ECS-120-S-7S-TR
12.000000	18.0pF	XC548CT-ND	2.03	1.69	1.35	1012.50	ECS-120-18-7S-TR
12.000000	32.0pF	XC494CT-ND	2.03	1.69	1.35	1012.50	ECS-120-32-7S-TR
12.288000	Series	XC518CT-ND •	2.03	1.69	1.35	1012.50	ECS-122.8-S-7S-TR
12.288000	20.0pF	XC493CT-ND	2.03	1.69	1.35	1012.50	ECS-122.8-20-7S-TR
14.318180	Series	XC519CT-ND •	2.03	1.69	1.35	1012.50	ECS-143-S-7S-TR
14.318180	20.0pF	XC492CT-ND	2.03	1.69	1.35	1012.50	ECS-143-20-7S-TR
14.745600	Series	XC520CT-ND •	2.03	1.69	1.35	1012.50	ECS-147.4-S-7S-TR
14.745600	20.0pF	XC491CT-ND	2.03	1.69	1.35	1012.50	ECS-147.4-20-7S-TR
16.000000	Series	XC521CT-ND •	2.03	1.69	1.35	1012.50	ECS-160-S-7S-TR
16.000000	20.0pF	XC550CT-ND	2.03	1.69	1.35	1012.50	ECS-160-20-7S-TR
18.432000	Series	XC522CT-ND •	2.03	1.69	1.35	1012.50	ECS-184-S-7S-TR
19.660800	Series	XC523CT-ND •	2.03	1.69	1.35	1012.50	ECS-196.6-S-7S-TR
19.660800	20.0pF	XC490CT-ND	2.03	1.69	1.35	1012.50	ECS-196.6-20-7S-TR
20.000000	Series	XC524CT-ND •	2.03	1.69	1.35	1012.50	ECS-200-S-7S-TR
20.000000	16.0pF	XC489CT-ND	2.03	1.69	1.35	1012.50	ECS-200-16-7S-TR
20.000000	20.0pF	XC525CT-ND •	2.03	1.69	1.35	1012.50	ECS-200-20-7S-TR
23.592000	Series	XC559CT-ND	2.03	1.69	1.35	1012.50	ECS-235.92-S-7S-TR
24.000000	Series	XC526CT-ND •	2.03	1.69	1.35	1012.50	ECS-240-S-7S-TR
24.000000	16.0pF	XC528CT-ND	2.03	1.69	1.35	1012.50	ECS-240-16-7S-TR
24.000000	20.0pF	XC527CT-ND •	2.03	1.69	1.35	1012.50	ECS-240-20-7S-TR
RoHS Compliant							
3.579545	Series	XC1229CT-ND	2.03	1.69	1.35	1013.00	ECS-35-S-7SX-TR
3.579545	17.0pF	XC1206CT-ND	2.03	1.69	1.35	1013.00	ECS-35-17-7SX-TR
3.686400	Series	XC1207CT-ND	2.03	1.69	1.35	1013.00	ECS-36-S-7SX-TR
3.686400	20.0pF	XC1208CT-ND	2.03	1.69	1.35	1013.00	ECS-36-20-7SX-TR
4.000000	Series	XC1209CT-ND	2.03	1.69	1.35	1013.00	ECS-40-S-7SX-TR
4.000000	20.0pF	XC1210CT-ND	2.03	1.69	1.35	1013.00	ECS-40-20-7SX-TR
4.096000	16.0pF	XC1205CT-ND	2.03	1.69	1.35	1013.00	ECS-41-16-7SX-TR
4.194304	12.0pF	XC1230CT-ND	2.03	1.69	1.35	1013.00	ECS-42-12-7SX-TR
4.915200	Series	XC1211CT-ND	2.03	1.69	1.35	1013.00	ECS-49-S-7SX-TR
4.915200	20.0pF	XC1212CT-ND	2.03	1.69	1.35	1013.00	ECS-49-20-7SX-TR
5.000000	20.0pF	XC1204CT-ND	2.03	1.69	1.35	1013.00	ECS-50-20-7SX-TR
6.000000	Series	XC1202CT-ND	2.03	1.69	1.35	1013.00	ECS-60-S-7SX-TR
6.000000	32.0pF	XC1203CT-ND	2.03	1.69	1.35	1125.00	ECS-60-32-7SX-TR
6.144000	32.0pF	XC1213CT-ND	2.03	1.69	1.35	1013.00	ECS-61-32-7SX-TR
6.553600	12.0pF	XC1201CT-ND	2.03	1.69	1.35	1013.00	ECS-65-12-7SX-TR
7.372800	Series	XC1214CT-ND	2.03	1.69	1.35	1013.00	ECS-73-S-7SX-TR
7.372800	20.0pF	XC1231CT-ND	2.03	1.69	1.35	1013.00	ECS-73-20-7SX-TR
8.000000	Series	XC1215CT-ND	2.03	1.69	1.35	1013.00	ECS-80-S-7SX-TR
8.000000	16.0pF	XC1200CT-ND	2.03	1.69	1.35	1013.00	ECS-80-16-7SX-TR
9.830400	20.0pF	XC1216CT-ND	2.03	1.69	1.35	1013.00	ECS-98.3-20-7SX-TR
10.000000	Series	XC1217CT-ND	2.03	1.69	1.35	1013.00	ECS-100-S-7SX-TR
11.059200	Series	XC1218CT-ND	2.03	1.69	1.35	1013.00	ECS-110.5-S-7SX-TR
11.059200	20.0pF	XC1219CT-ND	2.03	1.69	1.35	1013.00	ECS-110.5-20-7SX-TR
12.000000	Series	XC1220CT-ND	2.03	1.69	1.35	1013.00	ECS-120-S-7SX-TR
12.000000	18.0pF	XC1232CT-ND	2.03	1.69	1.35	1013.00	ECS-120-18-7SX-TR
12.288000	Series	XC1221CT-ND	2.03	1.69	1.35	1013.00	ECS-122.8-S-7SX-TR
12.288000	20.0pF	XC1199CT-ND	2.03	1.69	1.35	1013.00	ECS-122.8-20-7SX-TR
14.318180	Series	XC1222CT-ND	2.03	1.69	1.35	1013.00	ECS-143-S-7SX-TR
***RoHS Compliant** (cont.)*							
14.745600	Series	XC1223CT-ND	2.03	1.69	1.35	1013.00	ECS-147.4-S-7SX-TR
14.745600	20.0pF	XC1198CT-ND	2.03	1.69	1.35	1013.00	ECS-147.4-20-7SX-TR
16.000000	Series	XC1224CT-ND	2.03	1.69	1.35	1013.00	ECS-160-S-7SX-TR
16.000000	20.0pF	XC1233CT-ND	2.03	1.69	1.35	1013.00	ECS-160-20-7SX-TR
18.432000	Series	XC1225CT-ND	2.03	1.69	1.35	1013.00	ECS-184-S-7SX-TR
19.660800	20.0pF	XC1197CT-ND	2.03	1.69	1.35	1013.00	ECS-196.6-20-7SX-TR
20.000000	Series	XC1226CT-ND	2.03	1.69	1.35	1013.00	ECS-200-S-7SX-TR
20.000000	16.0pF	XC1196CT-ND	2.03	1.69	1.35	1013.00	ECS-200-16-7SX-TR
20.000000	20.0pF	XC1227CT-ND	2.03	1.69	1.35	1013.00	ECS-200-20-7SX-TR
24.000000	20.0pF	XC1228CT-ND	2.03	1.69	1.35	1013.00	ECS-240-20-7SX-TR

* For Tape & Reel Part No., change CT-ND to TR-ND.

• **XC-KIT-ND Digi-Key® SMT Low Profile Quartz Crystal Kit** 3 each of values denoted (78 total pieces). Notebook style storage case and bin storage guide included **$169.00**

Quartz Crystals - CSM-4 Series, SMD, Low Profile

Electrical Specifications: • The CSM-4A is also pin-out compatible with the Epson MA-506 • **Frequency Tolerance:** ±30ppm • **Operating Mode:** Fundamental • **Shunt Capacitance:** 7pF • **Storage Temperature:** -30°C ~ 85°C • **Operating Temperature:** -10°C ~ 70°C • **Drive Level:** 500μW

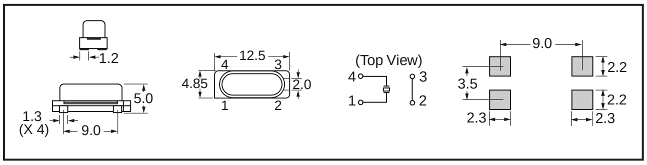

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing* 1,000	ECS Part No.
			1	10	100		
3.579545	17.0pF	XC747CT-ND	1.35	1.24	1.02	675.00	ECS-35-17-28A-TR
3.686400	20.0pF	XC748CT-ND	1.35	1.24	1.02	675.00	ECS-36-20-28A-TR
4.000000	20.0pF	XC749CT-ND	1.35	1.24	1.02	675.00	ECS-40-20-28A-TR
4.915200	20.0pF	XC751CT-ND	1.35	1.24	1.02	675.00	ECS-49-20-28A-TR
5.000000	20.0pF	XC750CT-ND	1.35	1.24	1.02	675.00	ECS-50-20-28A-TR
6.000000	32.0pF	XC752CT-ND	1.35	1.24	1.02	675.00	ECS-60-32-28A-TR
7.372800	20.0pF	XC753CT-ND	1.35	1.24	1.02	675.00	ECS-73-20-28A-TR
8.000000	16.0pF	XC754CT-ND	1.35	1.24	1.02	675.00	ECS-80-16-28A-TR
9.830400	20.0pF	XC778CT-ND	1.35	1.24	1.02	675.00	ECS-98.3-20-28A-TR
10.000000	Series	XC755CT-ND	1.35	1.24	1.02	675.00	ECS-100-S-28A-TR
10.000000	20.0pF	XC756CT-ND	1.35	1.24	1.02	675.00	ECS-100-20-28A-TR
11.059200	Series	XC757CT-ND	1.35	1.24	1.02	675.00	ECS-110.5-S-28A-TR
11.059200	20.0pF	XC758CT-ND	1.35	1.24	1.02	675.00	ECS-110.5-20-28A-TR
12.000000	Series	XC760CT-ND	1.35	1.24	1.02	675.00	ECS-120-S-28A-TR
12.000000	18.0pF	XC759CT-ND	1.35	1.24	1.02	675.00	ECS-120-18-28A-TR
12.000000	32.0pF	XC761CT-ND	1.35	1.24	1.02	675.00	ECS-120-32-28A-TR
12.288000	20.0pF	XC762CT-ND	1.35	1.24	1.02	675.00	ECS-122.8-20-28A-TR
14.318180	Series	XC764CT-ND	1.35	1.24	1.02	675.00	ECS-143-S-28A-TR
14.318180	20.0pF	XC763CT-ND	1.35	1.24	1.02	675.00	ECS-143-20-28A-TR
14.745600	Series	XC765CT-ND	1.35	1.24	1.02	675.00	ECS-147.4-S-28A-TR
14.745600	20.0pF	XC766CT-ND	1.35	1.24	1.02	675.00	ECS-147.4-20-28A-TR
16.000000	Series	XC768CT-ND	1.35	1.24	1.02	675.00	ECS-160-S-28A-TR
16.000000	20.0pF	XC767CT-ND	1.35	1.24	1.02	675.00	ECS-160-20-28A-TR
18.432000	Series	XC769CT-ND	1.35	1.24	1.02	675.00	ECS-184-S-28A-TR
18.432000	20.0pF	XC770CT-ND	1.35	1.24	1.02	675.00	ECS-184-20-28A-TR
20.000000	Series	XC771CT-ND	1.35	1.24	1.02	675.00	ECS-200-S-28A-TR
20.000000	20.0pF	XC772CT-ND	1.35	1.24	1.02	675.00	ECS-200-20-28A-TR
24.000000	Series	XC773CT-ND	1.35	1.24	1.02	675.00	ECS-240-S-28A-TR
24.000000	12.0pF	XC1008CT-ND	1.35	1.22	1.02	675.00	ECS-240-12-28A-TR
24.000000	20.0pF	XC774CT-ND	1.35	1.24	1.02	675.00	ECS-240-20-28A-TR
24.576000	20.0pF	XC775CT-ND	1.35	1.24	1.02	675.00	ECS-245.7-20-28A-TR
25.000000	20.0pF	XC776CT-ND	1.35	1.24	1.02	675.00	ECS-250-20-28A-F-TR
RoHS Compliant							
3.686400	20.0pF	XC1308CT-ND	1.35	1.24	1.02	675.00	ECS-36-20-28AX-TR
4.000000	20.0pF	XC1309CT-ND	1.35	1.24	1.02	675.00	ECS-40-20-28AX-TR
6.000000	32.0pF	XC1310CT-ND	1.35	1.24	1.02	675.00	ECS-60-32-28AX-TR
7.372800	20.0pF	XC1311CT-ND	1.35	1.24	1.02	675.00	ECS-73-20-28AX-TR
8.000000	16.0pF	XC1312CT-ND	1.35	1.24	1.02	675.00	ECS-80-16-28AX-TR
10.000000	20.0pF	XC1313CT-ND	1.35	1.24	1.02	675.00	ECS-100-20-28AX-TR
11.059200	20.0pF	XC1314CT-ND	1.35	1.24	1.02	675.00	ECS-110.5-20-28AX-TR
12.000000	Series	XC1316CT-ND	1.35	1.24	1.02	675.00	ECS-120-S-28AX-TR
12.000000	18.0pF	XC1315CT-ND	1.35	1.24	1.02	675.00	ECS-120-18-28AX-TR
12.000000	32.0pF	XC1317CT-ND	1.35	1.24	1.02	675.00	ECS-120-32-28AX-TR
12.288000	20.0pF	XC1318CT-ND	1.35	1.24	1.02	675.00	ECS-122.8-20-28AX-TR
14.318180	20.0pF	XC1319CT-ND	1.35	1.24	1.02	675.00	ECS-143-20-28AX-TR
14.745600	Series	XC1320CT-ND	1.35	1.24	1.02	675.00	ECS-147.4-S-28AX-TR
14.745600	20.0pF	XC1321CT-ND	1.35	1.24	1.02	675.00	ECS-147.4-20-28AX-TR
16.000000	Series	XC1323CT-ND	1.35	1.24	1.02	675.00	ECS-160-S-28AX-TR
16.000000	20.0pF	XC1322CT-ND	1.35	1.24	1.02	675.00	ECS-160-20-28AX-TR
18.432000	20.0pF	XC1324CT-ND	1.35	1.24	1.02	675.00	ECS-184-20-28AX-TR
20.000000	20.0pF	XC1325CT-ND	1.35	1.24	1.02	675.00	ECS-200-20-28AX-TR
24.000000	20.0pF	XC1326CT-ND	1.35	1.24	1.02	675.00	ECS-240-20-28AX-TR
25.000000	20.0pF	XC1327CT-ND	1.35	1.24	1.02	675.00	ECS-250-20-28AX-F-TR

* For Tape & Reel Part No., change CT-ND to TR-ND.

ECS INC. INTERNATIONAL Quartz Crystals - CSM-7 Case Series, SMD, Low Profile

Electrical Characteristics:

• **Frequency Tolerance:** ±30ppm @ 25°C and ±50ppm over operating temperature range • **Frequency Stability (Extended Temp. Version):** ±100ppm, -40°C ~ +85°C • **Shunt Capacitance:** 7.0pF • **Drive Level:** 0.5mW • **Operating Temperature:** -10°C ~ 70°C (Extended Temperature Version: -40°C ~ 85°C) • **Storage Temperature:** -40°C ~ 105°C • **Aging Characteristics (first year):** ±5.0ppm @ 25°C

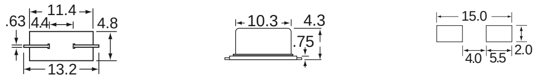

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R** Pricing 1,000	ECS Part No.
CSM-7 Industrial Temperature Range							
3.579545	17.0pF	XC730CT-ND	1.05	.88	.71	526.50	ECS-35-17-5PDN-TR
3.686400	20.0pF	XC731CT-ND	1.05	.88	.71	526.50	ECS-36-20-5PDN-TR
4.000000	20.0pF	XC732CT-ND	1.05	.88	.71	526.50	ECS-40-20-5PDN-TR
6.000000	32.0pF	XC733CT-ND	1.05	.88	.71	526.50	ECS-60-32-5PDN-TR
7.372800	20.0pF	XC734CT-ND	1.05	.88	.71	526.50	ECS-73-20-5PDN-TR
8.000000	18.0pF	XC735CT-ND	1.05	.88	.71	526.50	ECS-80-18-5PDN-TR
12.000000	20.0pF	XC736CT-ND	1.05	.88	.71	526.50	ECS-120-20-5PDN-TR
14.318180	20.0pF	XC737CT-ND	1.05	.88	.71	526.50	ECS-143-20-5PDN-TR
16.000000	20.0pF	XC738CT-ND	1.05	.88	.71	526.50	ECS-160-20-5PDN-TR
18.432000	20.0pF	XC739CT-ND	1.05	.88	.71	526.50	ECS-184-20-5PDN-TR
19.660800	20.0pF	XC740CT-ND	1.05	.88	.71	526.50	ECS-196-20-5PDN-TR
20.000000	20.0pF	XC741CT-ND	1.05	.88	.71	526.50	ECS-200-20-5PDN-TR
24.000000	20.0pF	XC742CT-ND	1.05	.88	.71	526.50	ECS-240-20-5PDN-TR
CSM-7 Industrial Temperature Range RoHS Compliant							
3.579545	17.0pF	XC1292CT-ND	1.05	.88	.71	527.00	ECS-35-17-5PXDN-TR
3.686400	20.0pF	XC1293CT-ND	1.05	.88	.71	527.00	ECS-36-20-5PXDN-TR
4.000000	20.0pF	XC1294CT-ND	1.05	.88	.71	527.00	ECS-40-20-5PXDN-TR
6.000000	32.0pF	XC1295CT-ND	1.05	.88	.71	527.00	ECS-60-32-5PXDN-TR
7.372800	20.0pF	XC1296CT-ND	1.05	.88	.71	527.00	ECS-73-20-5PXDN-TR
8.000000	18.0pF	XC1297CT-ND	1.05	.88	.71	527.00	ECS-80-18-5PXDN-TR
12.000000	20.0pF	XC1298CT-ND	1.05	.88	.71	527.00	ECS-120-20-5PXDN-TR
16.000000	20.0pF	XC1299CT-ND	1.05	.88	.71	527.00	ECS-160-20-5PXDN-TR
18.432000	20.0pF	XC1300CT-ND	1.05	.88	.71	527.00	ECS-184-20-5PXDN-TR
19.660800	20.0pF	XC1301CT-ND	1.05	.88	.71	527.00	ECS-196-20-5PXDN-TR
20.000000	20.0pF	XC1302CT-ND	1.05	.88	.71	527.00	ECS-200-20-5PXDN-TR
24.000000	20.0pF	XC1303CT-ND	1.05	.88	.71	527.00	ECS-240-20-5PXDN-TR
CSM-7 for Melexis and Other RF Applications							
7.150500	12.0pF	XC871-ND*	1.95	1.76	1.47	—	ECS-071.505-CD-0370
9.843800	12.0pF	XC872-ND*	1.95	1.76	1.47	—	ECS-098.438-CD-0371
13.062500	12.0pF	XC873-ND*	1.95	1.76	1.47	—	ECS-130.625-CD-0373
13.560000	12.0pF	XC874-ND*	1.95	1.76	1.47	—	ECS-135.600-CD-0374
20.356300	12.0pF	XC875-ND*	1.95	1.76	1.47	—	ECS-203.563-CD-0375
22.627800	12.0pF	XC876-ND*	1.95	1.76	1.47	—	ECS-226.278-CD-0376
23.264300	12.0pF	XC877-ND*	1.95	1.76	1.47	—	ECS-232.643-CD-0377
23.512200	12.0pF	XC878-ND*	1.95	1.76	1.47	—	ECS-235.122-CD-0378
25.223500	12.0pF	XC879-ND*	1.95	1.76	1.47	—	ECS-252.235-CD-0379
25.456300	12.0pF	XC880-ND*	1.95	1.76	1.47	—	ECS-254.563-CD-0380
26.451300	12.0pF	XC881-ND*	1.95	1.76	1.47	—	ECS-264.513-CD-0381
26.597100	12.0pF	XC882-ND*	1.95	1.76	1.47	—	ECS-265.971-CD-0382
27.134400	12.0pF	XC883-ND*	1.95	1.76	1.47	—	ECS-271.344-CD-0383
27.468800	12.0pF	XC884-ND*	1.95	1.76	1.47	—	ECS-274.688-CD-0384
28.259400	12.0pF	XC885-ND*	1.95	1.76	1.47	—	ECS-282.594-CD-0385
28.593800	12.0pF	XC886-ND*	1.95	1.76	1.47	—	ECS-285.938-CD-0386
CSM-7 for Melexis and Other RF Applications RoHS Compliant							
4.897000	20.0pF	XC1023CT-ND	1.95	1.76	1.47	975.00	ECS-48.97-CDX-0065-TR
6.498300	20.0pF	XC1024CT-ND	1.95	1.76	1.47	975.00	ECS-64.983-CDX-0067-TR
6.745800	20.0pF	XC1025CT-ND	1.95	1.76	1.47	975.00	ECS-67.458-CDX-0068-TR
7.150500	12.0pF	XC1355-ND*	1.95	1.76	1.47	—	ECS-071.505-CDX-0370
9.843750	10.0pF	XC1026CT-ND	1.95	1.76	1.47	975.00	ECS-98.4375-CDX-0314-TR
9.843800	12.0pF	XC1356-ND*	1.95	1.76	1.47	—	ECS-098.438-CDX-0371
13.062500	12.0pF	XC1357-ND*	1.95	1.76	1.47	—	ECS-130.625-CDX-0373
13.560000	10.0pF	XC1027CT-ND	1.95	1.76	1.47	975.00	ECS-135.60-CDX-0317-TR
13.560000	12.0pF	XC1358-ND*	1.95	1.76	1.47	—	ECS-135.600-CDX-0374
20.356300	12.0pF	XC1359-ND*	1.95	1.76	1.47	—	ECS-203.563-CDX-0375
22.627800	12.0pF	XC1360-ND*	1.95	1.76	1.47	—	ECS-226.278-CDX-0376
23.264300	12.0pF	XC1361-ND*	1.95	1.76	1.47	—	ECS-232.643-CDX-0377
23.512200	12.0pF	XC1362-ND*	1.95	1.76	1.47	—	ECS-235.122-CDX-0378
25.223500	12.0pF	XC1363-ND*	1.95	1.76	1.47	—	ECS-252.235-CDX-0379
25.456300	12.0pF	XC1364-ND*	1.95	1.76	1.47	—	ECS-254.563-CDX-0380
26.451300	12.0pF	XC1365-ND*	1.95	1.76	1.47	—	ECS-264.513-CDX-0381
26.597100	12.0pF	XC1366-ND*	1.95	1.76	1.47	—	ECS-265.971-CDX-0382
27.134400	12.0pF	XC1367-ND*	1.95	1.76	1.47	—	ECS-271.344-CDX-0383
27.468800	12.0pF	XC1368-ND*	1.95	1.76	1.47	—	ECS-274.688-CDX-0384
28.259400	12.0pF	XC1369-ND*	1.95	1.76	1.47	—	ECS-282.594-CDX-0385
28.593800	12.0pF	XC1370-ND*	1.95	1.76	1.47	—	ECS-285.938-CDX-0386
CSM-7 Case							
3.579545	Series	XC663CT-ND	.73	.61	.49	405.00	ECS-35-S-5P-TR
3.579545	17.0pF	XC560CT-ND	.73	.61	.49	405.00	ECS-35-17-5P-TR
3.686400	Series	XC561CT-ND	.73	.61	.49	405.00	ECS-36-S-5P-TR
3.686400	20.0pF	XC562CT-ND	.73	.61	.49	405.00	ECS-36-20-5P-TR
4.000000	Series	XC563CT-ND	.73	.61	.49	405.00	ECS-40-S-5P-TR
CSM-7 Case (Cont.)							
4.000000	20.0pF	XC564CT-ND	.73	.61	.49	405.00	ECS-40-20-5P-TR
4.032000	Series	XC665CT-ND	.73	.61	.49	405.00	ECS-40.3-S-5P-TR
4.032000	20.0pF	XC664CT-ND	.73	.61	.49	405.00	ECS-40.3-20-5P-TR
4.096000	20.0pF	XC666CT-ND	.73	.61	.49	405.00	ECS-41-20-5P-TR
4.194304	12.0pF	XC667CT-ND	.73	.61	.49	405.00	ECS-42-12-5P-TR
4.194304	16.0pF	XC668CT-ND	.73	.61	.49	405.00	ECS-42-16-5P-TR
4.433618	20.0pF	XC669CT-ND	.73	.61	.49	405.00	ECS-44-20-5P-TR
4.915200	Series	XC565CT-ND	.73	.61	.49	405.00	ECS-49-S-5P-TR
4.915200	20.0pF	XC566CT-ND	.73	.61	.49	405.00	ECS-49-20-5P-TR
5.000000	Series	XC670CT-ND	.73	.61	.49	405.00	ECS-50-S-5P-TR
5.000000	20.0pF	XC671CT-ND	.73	.61	.49	405.00	ECS-50-20-5P-TR
5.068800	Series	XC672CT-ND	.73	.61	.49	405.00	ECS-51-S-5P-TR
5.068800	20.0pF	XC673CT-ND	.73	.61	.49	405.00	ECS-51-20-5P-TR
5.185000	Series	XC674CT-ND	.73	.61	.49	405.00	ECS-52-S-5P-TR
5.185000	32.0pF	XC675CT-ND	.73	.61	.49	405.00	ECS-52-32-5P-TR
5.990400	Series	XC676CT-ND	.73	.61	.49	405.00	ECS-59-S-5P-TR
5.990400	20.0pF	XC677CT-ND	.73	.61	.49	405.00	ECS-59.9-20-5P-TR
6.000000	Series	XC678CT-ND	.73	.61	.49	405.00	ECS-60-S-5P-TR
6.000000	32.0pF	XC679CT-ND	.73	.61	.49	405.00	ECS-60-32-5P-TR
6.144000	32.0pF	XC567CT-ND	.73	.61	.49	405.00	ECS-61-32-5P-TR
7.372800	Series	XC568CT-ND	.73	.61	.49	405.00	ECS-73-S-5P-TR
7.372800	20.0pF	XC680CT-ND	.73	.61	.49	405.00	ECS-73-20-5P-TR
8.000000	Series	XC569CT-ND	.73	.61	.49	405.00	ECS-80-S-5P-TR
8.000000	18.0pF	XC681CT-ND	.73	.61	.49	405.00	ECS-80-18-5P-TR
8.000000	32.0pF	XC682CT-ND	.73	.61	.49	405.00	ECS-80-32-5P-TR
9.216000	Series	XC683CT-ND	.73	.61	.49	405.00	ECS-92.1-S-5P-TR
9.216000	20.0pF	XC684CT-ND	.73	.61	.49	405.00	ECS-92.1-20-5P-TR
9.830400	Series	XC570CT-ND	.73	.61	.49	405.00	ECS-98.3-S-5P-TR
9.830400	20.0pF	XC571CT-ND	.73	.61	.49	405.00	ECS-98.3-20-5P-TR
10.000000	Series	XC572CT-ND	.73	.61	.49	405.00	ECS-100-S-5P-TR
10.000000	18.0pF	XC716CT-ND	.73	.61	.49	405.00	ECS-100-18-5P-TR
11.000000	Series	XC685CT-ND	.73	.61	.49	405.00	ECS-110-S-5P-TR
11.059200	Series	XC573CT-ND	.73	.61	.49	405.00	ECS-110.5-S-5P-TR
11.059200	20.0pF	XC574CT-ND	.73	.61	.49	405.00	ECS-110.5-20-5P-TR
11.059200	32.0pF	XC686CT-ND	.73	.61	.49	405.00	ECS-110.5-32-5P-TR
12.000000	Series	XC575CT-ND	.73	.61	.49	405.00	ECS-120-S-5P-TR
12.000000	18.0pF	XC717CT-ND	.73	.61	.49	405.00	ECS-120-18-5P-TR
12.000000	32.0pF	XC687CT-ND	.73	.61	.49	405.00	ECS-120-32-5P-TR
12.000393	18.0pF	XC688CT-ND	.73	.61	.49	405.00	ECS-120.003-18-5PTR
12.288000	Series	XC689CT-ND	.73	.61	.49	405.00	ECS-122.8-S-5P-TR
12.288000	20.0pF	XC690CT-ND	.73	.61	.49	405.00	ECS-122.8-20-5P-TR
14.318180	Series	XC576CT-ND	.73	.61	.49	405.00	ECS-143-S-5P-TR
14.318180	20.0pF	XC718CT-ND	.73	.61	.49	405.00	ECS-143-20-5P-TR
14.745600	Series	XC691CT-ND	.73	.61	.49	405.00	ECS-147.4-S-5P-TR
14.745600	20.0pF	XC692CT-ND	.73	.61	.49	405.00	ECS-147.4-20-5P-TR
15.000000	Series	XC693CT-ND	.73	.61	.49	405.00	ECS-150-S-5P-TR
16.000000	Series	XC577CT-ND	.73	.61	.49	405.00	ECS-160-S-5P-TR
16.000000	20.0pF	XC694CT-ND	.73	.61	.49	405.00	ECS-160-20-5P-TR
16.000312	18.0pF	XC695CT-ND	.73	.61	.49	405.00	ECS-160.003-18-5PTR
16.257000	Series	XC697CT-ND	.73	.61	.49	405.00	ECS-162.5-S-5P-TR
16.257000	20.0pF	XC696CT-ND	.73	.61	.49	405.00	ECS-162.5-20-5P-TR
18.000000	Series	XC698CT-ND	.73	.61	.49	405.00	ECS-180-S-5P-TR
18.432000	Series	XC578CT-ND	.73	.61	.49	405.00	ECS-184-S-5P-TR
18.432000	18.0pF	XC699CT-ND	.73	.61	.49	405.00	ECS-184-18-5P-TR
18.432000	20.0pF	XC700CT-ND	.73	.61	.49	405.00	ECS-184-20-5P-TR
19.660800	Series	XC579CT-ND	.73	.61	.49	405.00	ECS-196.6-S-5P-TR
19.660800	20.0pF	XC701CT-ND	.73	.61	.49	405.00	ECS-196.6-20-5P-TR
20.000000	Series	XC580CT-ND	.73	.61	.49	405.00	ECS-200-S-5P-TR
20.000000	16.0pF	XC719CT-ND	.73	.61	.49	405.00	ECS-200-16-5P-TR
20.000000	20.0pF	XC581CT-ND	.73	.61	.49	405.00	ECS-200-20-5P-TR
20.480000	20.0pF	XC743CT-ND	.73	.61	.49	405.00	ECS-204.8-20-5P-TR
24.000000	16.0pF	XC583CT-ND	.73	.61	.49	405.00	ECS-240-16-5P-TR
24.000000	20.0pF	XC582CT-ND	.73	.61	.49	405.00	ECS-240-20-5P-TR
24.000140	18.0pF	XC702CT-ND	.73	.61	.49	405.00	ECS-240.001-18-5PTR
24.576000	20.0pF	XC744CT-ND	.73	.61	.49	405.00	ECS-245.7-20-5P-TR

** For Tape & Reel Part No., change CT-ND to TR-ND.
* Due to manufacturer, product may come Cut Tape or Bulk; † 3rd Overtone

(Continued)

ECS INC. INTERNATIONAL Quartz Crystals - CSM-7 Case Series, SMD, Low Profile *(Cont.)*

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R** Pricing 1,000	ECS Part No.
			CSM-7 Case (Cont.)				
25.000000	18.0pF	XC745CT-ND	.73	.61	.49	405.00	ECS-250-18-5P-F-TR
48.000000	20.0pF	XC941CT-ND†	.73	.61	.49	405.00	ECS-480-20-5P-TR
			CSM-7 Case RoHS Compliant				
3.579545	Series	XC1257CT-ND	.73	.61	.49	405.00	ECS-35-S-5PX-TR
3.579545	17.0pF	XC1234CT-ND	.73	.61	.49	405.00	ECS-35-17-5PX-TR
3.686400	Series	XC1235CT-ND	.73	.61	.49	405.00	ECS-36-S-5PX-TR
3.686400	20.0pF	XC1236CT-ND	.73	.61	.49	405.00	ECS-36-20-5PX-TR
4.000000	Series	XC1237CT-ND	.73	.61	.49	405.00	ECS-40-S-5PX-TR
4.000000	20.0pF	XC1238CT-ND	.73	.61	.49	405.00	ECS-40-20-5PX-TR
4.032000	Series	XC1259CT-ND	.73	.61	.49	405.00	ECS-40.3-S-5PX-TR
4.032000	20.0pF	XC1258CT-ND	.73	.61	.49	405.00	ECS-40.3-20-5PX-TR
4.096000	20.0pF	XC1260CT-ND	.73	.61	.49	405.00	ECS-41-20-5PX-TR
4.194304	12.0pF	XC1261CT-ND	.73	.61	.49	405.00	ECS-42-12-5PX-TR
4.194304	16.0pF	XC1262CT-ND	.73	.61	.49	405.00	ECS-42-16-5PX-TR
4.433618	20.0pF	XC1263CT-ND	.73	.61	.49	405.00	ECS-44-20-5PX-TR
4.915200	Series	XC1239CT-ND	.73	.61	.49	405.00	ECS-49-S-5PX-TR
4.915200	20.0pF	XC1240CT-ND	.73	.61	.49	405.00	ECS-49-20-5PX-TR
5.000000	Series	XC1264CT-ND	.73	.61	.49	405.00	ECS-50-S-5PX-TR
5.000000	20.0pF	XC1265CT-ND	.73	.61	.49	405.00	ECS-50-20-5PX-TR
5.185000	32.0pF	XC1266CT-ND	.73	.61	.49	405.00	ECS-52-32-5PX-TR
5.990400	20.0pF	XC1267CT-ND	.73	.61	.49	405.00	ECS-59.9-20-5PX-TR
6.000000	Series	XC1268CT-ND	.73	.61	.49	405.00	ECS-60-S-5PX-TR
6.000000	20.0pF	XC1000CT-ND	.81	.73	.61	405.00	ECS-60-20-5PX-TR
6.000000	32.0pF	XC1269CT-ND	.73	.61	.49	405.00	ECS-60-32-5PX-TR
6.144000	32.0pF	XC1241CT-ND	.73	.61	.49	405.00	ECS-61-32-5PX-TR
7.372800	Series	XC1242CT-ND	.73	.61	.49	405.00	ECS-73-S-5PX-TR
7.372800	20.0pF	XC1270CT-ND	.73	.61	.49	405.00	ECS-73-20-5PX-TR
8.000000	Series	XC1243CT-ND	.73	.61	.49	405.00	ECS-80-S-5PX-TR
8.000000	18.0pF	XC1271CT-ND	.73	.61	.49	405.00	ECS-80-18-5PX-TR
8.000000	32.0pF	XC1272CT-ND	.73	.61	.49	405.00	ECS-80-32-5PX-TR
9.216000	Series	XC1273CT-ND	.73	.61	.49	405.00	ECS-92.1-S-5PX-TR
9.216000	20.0pF	XC1274CT-ND	.73	.61	.49	405.00	ECS-92.1-20-5PX-TR
9.830400	Series	XC1244CT-ND	.73	.61	.49	405.00	ECS-98.3-S-5PX-TR
9.830400	20.0pF	XC1245CT-ND	.73	.61	.49	405.00	ECS-98.3-20-5PX-TR
10.000000	Series	XC1246CT-ND	.73	.61	.49	405.00	ECS-100-S-5PX-TR
10.000000	18.0pF	XC1288CT-ND	.73	.61	.49	405.00	ECS-100-18-5PX-TR
			CSM-7 Case RoHS Compliant (Cont.)				
10.245000	16.0pF	XC1004CT-ND	1.95	1.76	1.47	975.00	ECS-102.45-16-5PX-TR
11.059200	Series	XC1247CT-ND	.73	.61	.49	405.00	ECS-110.5-S-5PX-TR
11.059200	20.0pF	XC1248CT-ND	.73	.61	.49	405.00	ECS-110.5-20-5PX-TR
11.059200	32.0pF	XC1275CT-ND	.73	.61	.49	405.00	ECS-110.5-32-5PX-TR
12.000000	Series	XC1249CT-ND	.73	.61	.49	405.00	ECS-120-S-5PX-TR
12.000000	18.0pF	XC1289CT-ND	.73	.61	.49	405.00	ECS-120-18-5PX-TR
12.000000	32.0pF	XC1276CT-ND	.73	.61	.49	405.00	ECS-120-32-5PX-TR
12.288000	Series	XC1277CT-ND	.73	.61	.49	405.00	ECS-122.8-S-5PX-TR
12.288000	20.0pF	XC1278CT-ND	.73	.61	.49	405.00	ECS-122.8-20-5PX-TR
13.560000	12.0pF	XC1003CT-ND	1.95	1.76	1.47	975.00	ECS-135.6-12-5PX-TR
14.318180	Series	XC1250CT-ND	.73	.61	.49	405.00	ECS-143-S-5PX-TR
14.318180	20.0pF	XC1290CT-ND	.73	.61	.49	405.00	ECS-143-20-5PX-TR
14.745600	Series	XC1279CT-ND	.73	.61	.49	405.00	ECS-147.4-S-5PX-TR
14.745600	20.0pF	XC1280CT-ND	.73	.61	.49	405.00	ECS-147.4-20-5PX-TR
15.000000	Series	XC1281CT-ND	.73	.61	.49	405.00	ECS-150-S-5PX-TR
16.000000	Series	XC1251CT-ND	.73	.61	.49	405.00	ECS-160-S-5PX-TR
16.000000	20.0pF	XC1282CT-ND	.73	.61	.49	405.00	ECS-160-20-5PX-TR
16.000312	18.0pF	XC1283CT-ND	.73	.61	.49	405.00	ECS-160.003-18-5PX-TR
18.000000	Series	XC1284CT-ND	.73	.61	.49	405.00	ECS-180-S-5PX-TR
18.432000	Series	XC1252CT-ND	.73	.61	.49	405.00	ECS-184-S-5PX-TR
18.432000	18.0pF	XC1285CT-ND	.73	.61	.49	405.00	ECS-184-18-5PX-TR
18.432000	20.0pF	XC1286CT-ND	.73	.61	.49	405.00	ECS-184-20-5PX-TR
19.660800	20.0pF	XC1287CT-ND	.73	.61	.49	405.00	ECS-196.6-20-5PX-TR
20.000000	Series	XC1253CT-ND	.73	.61	.49	405.00	ECS-200-S-5PX-TR
20.000000	16.0pF	XC1291CT-ND	.73	.61	.49	405.00	ECS-200-16-5PX-TR
20.000000	20.0pF	XC1254CT-ND	.73	.61	.49	405.00	ECS-200-20-5PX-TR
24.000000	12.0pF	XC1001CT-ND	.81	.73	.61	405.00	ECS-240-12-5PX-TR
24.000000	16.0pF	XC1256CT-ND	.73	.61	.49	405.00	ECS-240-16-5PX-TR
24.000000	20.0pF	XC1255CT-ND	.73	.61	.49	405.00	ECS-240-20-5PX-TR
24.576000	20.0pF	XC1304CT-ND	.73	.61	.49	405.00	ECS-245.7-20-5PX-TR
25.000000	18.0pF	XC1305CT-ND	.73	.61	.49	405.00	ECS-250-18-5PX-F-TR
27.000000	18.0pF	XC1002CT-ND	.81	.73	.61	405.00	ECS-270-18-5PX-F-TR
48.000000	20.0pF	XC1306CT-ND†	.73	.61	.49	405.00	ECS-480-20-5PX-TR

** For Tape & Reel Part No., change CT-ND to TR-ND.
* Due to manufacturer, product may come Cut Tape or Bulk † 3rd Overtone

ECX-64B Bluetooth RF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	ECS Part No.
			RoHS Compliant				
12.00	XC1022CT-ND	1.95	1.76	1.47	XC1022TR-ND	975.00	ECS-120-CD-0330-TR

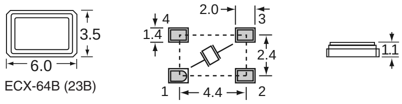

Quartz Crystals - High Frequency Miniature

Specifications: • **Frequency Tolerance:** ±50ppm @ 25°C and over Operating Temp. • **Operating Temperature:** -10°C ~ 60°C • **Storage Temperature:** -40°C ~ 85°C • **Load Capacitance:** 18.0pF • **Shunt Capacitance:** 5pF Max. • **Drive Level:** 50μW ~ 100μW • **Insulation Resistance:** 500MΩ Min./DC 100V ±5 • **Aging (First Year):** ±5ppm Max. @ 25°C ±3°C

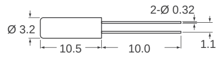

3X10

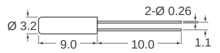

3X9

Frequency (MHz)	Equivalent Series Resistance (ESR)	Mode
3.5 - 4	200Ω Max.	Fundamental
4 - 6	150Ω Max.	
6 - 10	100Ω Max.	
10 - 30	50Ω Max.	
30 - 36	100Ω Max.	3rd O/T
36 - 70	80Ω Max.	

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
		ECS-3X10				
3.579545	XC944-ND	.73	.66	.53	.47	ECS-35-18-10
3.686400	XC945-ND	.73	.66	.53	.47	ECS-36-18-10
4.000000	XC946-ND	.73	.66	.53	.47	ECS-40-18-10
4.915200	XC947-ND	.73	.66	.53	.47	ECS-49-18-10
6.000000	XC948-ND	.73	.66	.53	.47	ECS-60-18-10
7.372810	XC949-ND	.73	.66	.53	.47	ECS-73-18-10
8.000000	XC950-ND	.73	.66	.53	.47	ECS-80-18-10
		ECS-3X10 RoHS Compliant				
3.579545	XC1371-ND	.73	.66	.53	.47	ECS-35-18-10X
3.686400	XC1372-ND	.73	.66	.53	.47	ECS-36-18-10X
4.000000	XC1373-ND	.73	.66	.53	.47	ECS-40-18-10X
4.915200	XC1374-ND	.73	.66	.53	.47	ECS-49-18-10X
6.000000	XC1375-ND	.73	.66	.53	.47	ECS-60-18-10X
7.372810	XC1376-ND	.73	.66	.53	.47	ECS-73-18-10X
8.000000	XC1377-ND	.73	.66	.53	.47	ECS-80-18-10X
		ECS-3X9				
8.192000	XC951-ND	.73	.66	.53	.47	ECS-81.92-18-9
9.830400	XC952-ND	.73	.66	.53	.47	ECS-98.3-18-9
10.000000	XC953-ND	.73	.66	.53	.47	ECS-100-18-9
11.059200	XC954-ND	.73	.66	.53	.47	ECS-110.5-18-9
12.000000	XC955-ND	.73	.66	.53	.47	ECS-120-18-9
14.318180	XC956-ND	.73	.66	.53	.47	ECS-143-18-9
14.745600	XC957-ND	.73	.66	.53	.47	ECS-147.4-18-9
16.000000	XC958-ND	.73	.66	.53	.47	ECS-160-18-9
18.432000	XC959-ND	.73	.66	.53	.47	ECS-184-18-9
19.660800	XC960-ND	.73	.66	.53	.47	ECS-196.6-18-9
20.000000	XC961-ND	.73	.66	.53	.47	ECS-200-18-9
24.000000	XC962-ND	.73	.66	.53	.47	ECS-240-18-9
24.576000	XC963-ND	.73	.66	.53	.47	ECS-245.7-18-9
25.000000	XC964-ND	.73	.66	.53	.47	ECS-250-18-9
27.000000	XC965-ND	.73	.66	.53	.47	ECS-270-18-9
32.000000	XC966-ND	.73	.66	.53	.47	ECS-320-18-9-F
32.768000	XC967-ND	.73	.66	.53	.47	ECS-327-18-9-F
40.000000	XC968-ND	.73	.66	.53	.47	ECS-400-18-10-3OT
50.000000	XC969-ND	.73	.66	.53	.47	ECS-500-18-9-3OT
		ECS-3X9 RoHS Compliant				
10.000000	XC1378-ND	.73	.66	.53	.47	ECS-100-18-9X
11.059200	XC1379-ND	.73	.66	.53	.47	ECS-110.5-18-9X
12.000000	XC1380-ND	.73	.66	.53	.47	ECS-120-18-9X
14.318180	XC1381-ND	.73	.66	.53	.47	ECS-143-18-9X
14.745600	XC1382-ND	.73	.66	.53	.47	ECS-147.4-18-9X
16.000000	XC1383-ND	.73	.66	.53	.47	ECS-160-18-9X
18.432000	XC1384-ND	.73	.66	.53	.47	ECS-184-18-9X
19.660800	XC1385-ND	.73	.66	.53	.47	ECS-196.6-18-9X
20.000000	XC1386-ND	.73	.66	.53	.47	ECS-200-18-9X
24.576000	XC1387-ND	.73	.66	.53	.47	ECS-245.7-18-9X
25.000000	XC1388-ND	.73	.66	.53	.47	ECS-250-18-9X
27.000000	XC1389-ND	.73	.66	.53	.47	ECS-270-18-9X
32.000000	XC1390-ND	.73	.66	.53	.47	ECS-320-18-9X-F
32.768000	XC1391-ND	.73	.66	.53	.47	ECS-327-18-9X-F

ECS INC. INTERNATIONAL SMD Quartz Crystals

ELECTRICAL CHARACTERISTICS:

CSM-12 Series: • Frequency Tolerance: ±30ppm @ 25°C and ±50ppm over operating temperature range • Shunt Capacitance: 7.0pF • Drive Level: 100µW • Operating Temperature: -10°C ~ 70°C • Storage Temp.: -40°C ~ 85°C • Aging Characteristics (first year): ±5.0ppm @ 25°C • Mode of Operation: Fundamental

CSM-8 Series: • Frequency Tolerance: ±30ppm @ 25°C and ±50ppm over operating temperature range • Shunt Capacitance: 5.0pF • Drive Level: 0.5mW • Operating Temperature: -10°C ~ 70°C • Storage Temperature: -40°C ~ 85°C • Aging Characteristics (first year): ±5.0ppm @ 25°C

ECX-19A Series: • Frequency Tolerance: ±30ppm @ 25°C and ±50ppm over operating temp. range • Shunt Capacitance: 7.0pF • Drive Level: 0.1mW • Operating Temp.: -10°C ~ 70°C • Storage Temperature: -30°C ~ 85°C • Aging Characteristics (first year): ±5.0ppm @ 25°C

ECX-32 and ECX-53B Series: • Frequency Tolerance: ±50ppm @ 25°C • Shunt Capacitance: 5.0pF • Drive Level: 100µW • Operating Temperature: -20°C ~ 70°C • Storage Temperature: -40°C ~ 85°C • Aging Characteristic (per year): ±5ppm @ 25°C ±3°C per year

ECX-64A Series: • Frequency Tolerence: ±30ppm @ 25°C and ±50ppm over operating temperature range • Shunt Capacitance: 7.0pF • Drive Level: 100µW • Operating Temperature: -40°C ~ 85°C • Storage Temperature: -40°C ~ 85°C • Aging Characteristics 85°C (per year) ± 5.0ppm @ 25°C ± 3°C per year

Fig. 1

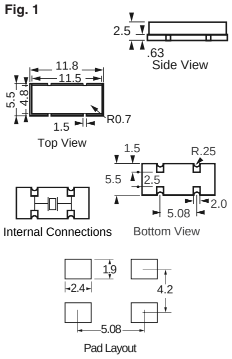

Fig. 2

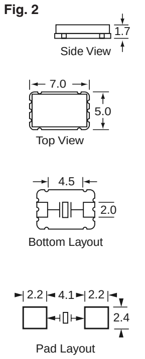

Fig. 3

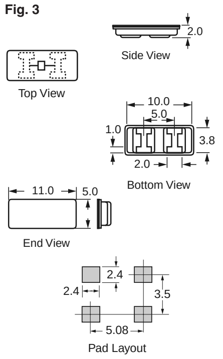

Fig. 4

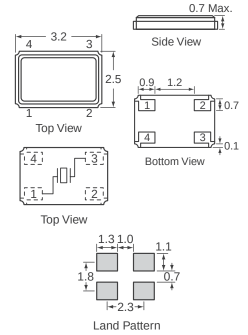

Fig. 5

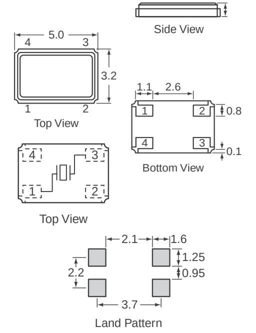

Fig. 6

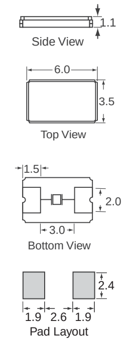

Fig.	Max. ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing 1,000	ECS Part No.
					1	10	100	500			
CSM-12 Series RoHS Compliant											
1	200	17.0pF	3.579545	XC584CT-ND	1.95	1.76	1.47	1.17	XC584TR-ND	975.00	ECS-35-17-18-TR
	200	Series	3.686400	XC585CT-ND	1.95	1.76	1.47	1.17	XC585TR-ND	975.00	ECS-36-S-18-TR
	200	20.0pF	3.686400	XC586CT-ND	1.95	1.76	1.47	1.17	XC586TR-ND	975.00	ECS-36-20-18-TR
	150	Series	4.000000	XC588CT-ND	1.95	1.76	1.47	1.17	XC588TR-ND	975.00	ECS-40-S-18-TR
	150	20.0pF	4.000000	XC587CT-ND	1.95	1.76	1.47	1.17	XC587TR-ND	975.00	ECS-40-20-18-TR
	150	Series	4.915200	XC590CT-ND	1.95	1.76	1.47	1.17	XC590TR-ND	975.00	ECS-49-S-18-TR
	150	20.0pF	4.915200	XC589CT-ND	1.95	1.76	1.47	1.17	XC589TR-ND	975.00	ECS-49-20-18-TR
	100	32.0pF	6.144000	XC591CT-ND	1.95	1.76	1.47	1.17	XC591TR-ND	975.00	ECS-61-32-18-TR
	100	Series	7.372800	XC592CT-ND	1.95	1.76	1.47	1.17	XC592TR-ND	975.00	ECS-73-S-18-TR
	100	Series	8.000000	XC593CT-ND	1.95	1.76	1.47	1.17	XC593TR-ND	975.00	ECS-80-S-18-TR
	100	20.0pF	8.000000	XC1007CT-ND	1.95	1.76	1.47	1.17	XC1007TR-ND	975.00	ECS-80-20-18-TR
	100	Series	9.830400	XC594CT-ND	1.95	1.76	1.47	1.17	XC594TR-ND	975.00	ECS-98.3-S-18-TR
	100	20.0pF	9.830400	XC595CT-ND	1.95	1.76	1.47	1.17	XC595TR-ND	975.00	ECS-98.3-20-18-TR
	80	Series	10.000000	XC596CT-ND	1.95	1.76	1.47	1.17	XC596TR-ND	975.00	ECS-100-S-18-TR
	80	Series	11.059200	XC597CT-ND	1.95	1.76	1.47	1.17	XC597TR-ND	975.00	ECS-110.5-S-18-TR
	80	20.0pF	11.059200	XC598CT-ND	1.95	1.76	1.47	1.17	XC598TR-ND	975.00	ECS-110.5-20-18-TR
	80	Series	12.000000	XC599CT-ND	1.95	1.76	1.47	1.17	XC599TR-ND	975.00	ECS-120-S-18-TR
	50	Series	14.318180	XC600CT-ND	1.95	1.76	1.47	1.17	XC600TR-ND	975.00	ECS-143-S-18-TR
	50	20.0pF	14.318180	XC937CT-ND	1.95	1.76	1.47	1.17	XC937TR-ND	975.00	ECS-143-20-18-TR
	50	Series	16.000000	XC601CT-ND	1.95	1.76	1.47	1.17	XC601TR-ND	975.00	ECS-160-S-18-TR
	50	Series	18.432000	XC602CT-ND	1.95	1.76	1.47	1.17	XC602TR-ND	975.00	ECS-184-S-18-TR
	50	Series	19.660800	XC603CT-ND	1.95	1.76	1.47	1.17	XC603TR-ND	975.00	ECS-196.6-S-18-TR
	50	Series	20.000000	XC604CT-ND	1.95	1.76	1.47	1.17	XC604TR-ND	975.00	ECS-200-S-18-TR
	50	20.0pF	20.000000	XC605CT-ND	1.95	1.76	1.47	1.17	XC605TR-ND	975.00	ECS-200-20-18-TR
	50	16.0pF	24.000000	XC607CT-ND	1.95	1.76	1.47	1.17	XC607TR-ND	975.00	ECS-240-16-18-TR
	50	20.0pF	24.000000	XC606CT-ND	1.95	1.76	1.47	1.17	XC606TR-ND	975.00	ECS-240-20-18-TR
CSM-8 Series RoHS Compliant											
2	60	20.0pF	8.000000	XC1010CT-ND	3.30	2.97	2.48	1.98	XC1010TR-ND	1650.00	ECS-80-20-20A-TR
	60	Series	9.830400	XC608CT-ND	3.30	2.97	2.48	1.98	XC608TR-ND	1650.00	ECS-98.3-S-20A-TR
	60	20.0pF	9.830400	XC609CT-ND	3.30	2.97	2.48	1.98	XC609TR-ND	1650.00	ECS-98.3-20-20A-TR
	60	Series	10.000000	XC610CT-ND	3.30	2.97	2.48	1.98	XC610TR-ND	1650.00	ECS-100-S-20A-TR
	60	Series	11.059200	XC611CT-ND	3.30	2.97	2.48	1.98	XC611TR-ND	1650.00	ECS-110.5-S-20A-TR
	60	20.0pF	11.059200	XC612CT-ND	3.30	2.97	2.48	1.98	XC612TR-ND	1650.00	ECS-110.5-20-20A-TR
	60	Series	12.000000	XC613CT-ND	3.30	2.97	2.48	1.98	XC613TR-ND	1650.00	ECS-120-S-20A-TR
	60	20.0pF	12.000000	XC1011CT-ND	3.30	2.97	2.48	1.98	XC1011TR-ND	1650.00	ECS-120-20-20A-TR
	60	20.0pF	12.288000	XC1012CT-ND	3.30	2.97	2.48	1.98	XC1012TR-ND	1650.00	ECS-122.8-20-20A-TR
	60	Series	14.318180	XC614CT-ND	3.30	2.97	2.48	1.98	XC614TR-ND	1650.00	ECS-143-S-20A-TR
	60	20.0pF	14.318180	XC938CT-ND	3.30	2.97	2.48	1.98	XC938TR-ND	1650.00	ECS-143-20-20A-TR
	60	Series	14.745600	XC615CT-ND	3.30	2.97	2.48	1.98	XC615TR-ND	1650.00	ECS-147.4-S-20A-TR
	40	Series	16.000000	XC616CT-ND	3.30	2.97	2.48	1.98	XC616TR-ND	1650.00	ECS-160-S-20A-TR
	40	20.0pF	16.000000	XC939CT-ND	3.30	2.97	2.48	1.98	XC939TR-ND	1650.00	ECS-160-20-20A-TR
	40	Series	18.432000	XC617CT-ND	3.30	2.97	2.48	1.98	XC617TR-ND	1650.00	ECS-184-S-20A-TR
	40	Series	19.660800	XC618CT-ND	3.30	2.97	2.48	1.98	XC618TR-ND	1650.00	ECS-196.6-S-20A-TR
	40	Series	20.000000	XC619CT-ND	3.30	2.97	2.48	1.98	XC619TR-ND	1650.00	ECS-200-S-20A-TR
	40	20.0pF	20.000000	XC620CT-ND	3.30	2.97	2.48	1.98	XC620TR-ND	1650.00	ECS-200-20-20A-TR
	40	Series	24.000000	XC621CT-ND	3.30	2.97	2.48	1.98	XC621TR-ND	1650.00	ECS-240-S-20A-TR
	40	12.0pF	24.000000	XC1009CT-ND	3.30	2.97	2.48	1.98	XC1009TR-ND	1650.00	ECS-240-12-20A-TR

***** 3rd Overtone

(Continued)

Fig.	Max. ESR (Ohm)	Load Cap.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	ECS Part No.
CSM-8 Series RoHS Compliant (Cont.)											
2	40	20.0pF	24.000000	XC622CT-ND	3.30	2.97	2.48	1.98	XC622TR-ND	1650.00	ECS-240-20-20A-TR
	40	Series	24.000140	XC623CT-ND	3.30	2.97	2.48	1.98	XC623TR-ND	1650.00	ECS-240.0014S20A-TR
	40	Series	30.000000	XC630CT-ND	3.30	2.97	2.48	1.98	XC630TR-ND	1650.00	ECS-300-S-20A-F-TR
	80	Series	30.000000	XC624CT-ND*	3.30	2.97	2.48	1.98	XC624TR-ND*	1650.00	ECS-300-S-20A-TR
	40	Series	32.000000	XC631CT-ND	3.30	2.97	2.48	1.98	XC631TR-ND	1650.00	ECS-320-S-20A-F-TR
	80	Series	32.000000	XC625CT-ND*	3.30	2.97	2.48	1.98	XC625TR-ND*	1650.00	ECS-320-S-20A-TR
	80	Series	33.000000	XC626CT-ND*	3.30	2.97	2.48	1.98	XC626TR-ND*	1650.00	ECS-330-S-20A-TR
	40	Series	35.251200	XC632CT-ND	3.30	2.97	2.48	1.98	XC632TR-ND	1650.00	ECS-352.512-S20AF-TR
	40	Series	36.000000	XC633CT-ND	3.30	2.97	2.48	1.98	XC633TR-ND	1650.00	ECS-360-S-20A-F-TR
	80	Series	36.000000	XC627CT-ND*	3.30	2.97	2.48	1.98	XC627TR-ND*	1650.00	ECS-360-S-20A-TR
	40	Series	40.000000	XC634CT-ND	3.30	2.97	2.48	1.98	XC634TR-ND	1650.00	ECS-400-S-20A-F-TR
	80	Series	40.000000	XC628CT-ND*	3.30	2.97	2.48	1.98	XC628TR-ND*	1650.00	ECS-400-S-20A-TR
	80	Series	40.320000	XC629CT-ND*	3.30	2.97	2.48	1.98	XC629TR-ND*	1650.00	ECS-403.2-S-20A-TR
	80	20.0pF	48.000000	XC940CT-ND	3.30	2.97	2.48	1.98	XC940TR-ND	1650.00	ECS-480-20-20A-TR
ECX-19A Series RoHS Compliant											
3	200	17.0pF	3.579545	XC850CT-ND	3.30	2.97	2.48	1.98	XC850TR-ND	1650.00	ECS-35-17-19A-TR
	200	20.0pF	3.686400	XC851CT-ND	3.30	2.97	2.48	1.98	XC851TR-ND	1650.00	ECS-36-20-19A-TR
	150	20.0pF	4.000000	XC852CT-ND	3.30	2.97	2.48	1.98	XC852TR-ND	1650.00	ECS-40-20-19A-TR
	150	20.0pF	4.915200	XC853CT-ND	3.30	2.97	2.48	1.98	XC853TR-ND	1650.00	ECS-49-20-19A-TR
	100	32.0pF	6.144000	XC854CT-ND	3.30	2.97	2.48	1.98	XC854TR-ND	1650.00	ECS-61-32-19A-TR
	100	20.0pF	7.372800	XC855CT-ND	3.30	2.97	2.48	1.98	XC855TR-ND	1650.00	ECS-73-20-19A-TR
	100	20.0pF	8.000000	XC856CT-ND	3.30	2.97	2.48	1.98	XC856TR-ND	1650.00	ECS-80-20-19A-TR
	100	20.0pF	9.830400	XC857CT-ND	3.30	2.97	2.48	1.98	XC857TR-ND	1650.00	ECS-98.3-20-19A-TR
	80	Series	10.000000	XC858CT-ND	3.30	2.97	2.48	1.98	XC858TR-ND	1650.00	ECS-100-S-19A-TR
	80	20.0pF	11.059200	XC859CT-ND	3.30	2.97	2.48	1.98	XC859TR-ND	1650.00	ECS-110.5-20-19A-TR
	80	Series	12.000000	XC860CT-ND	3.30	2.97	2.48	1.98	XC860TR-ND	1650.00	ECS-120-S-19A-TR
	80	20.0pF	12.000000	XC861CT-ND	3.30	2.97	2.48	1.98	XC861TR-ND	1650.00	ECS-120-20-19A-TR
	50	Series	14.318180	XC862CT-ND	3.30	2.97	2.48	1.98	XC862TR-ND	1650.00	ECS-143-S-19A-TR
	50	20.0pF	14.318180	XC863CT-ND	3.30	2.97	2.48	1.98	XC863TR-ND	1650.00	ECS-143-20-19A-TR
	50	Series	16.000000	XC864CT-ND	3.30	2.97	2.48	1.98	XC864TR-ND	1650.00	ECS-160-S-19A-TR
	50	Series	18.432000	XC865CT-ND	3.30	2.97	2.48	1.98	XC865TR-ND	1650.00	ECS-184-S-19A-TR
	50	Series	19.660800	XC866CT-ND	3.30	2.97	2.48	1.98	XC866TR-ND	1650.00	ECS-196.6-S-19A-TR
	50	Series	20.000000	XC867CT-ND	3.30	2.97	2.48	1.98	XC867TR-ND	1650.00	ECS-200-S-19A-TR
	50	20.0pF	20.000000	XC868CT-ND	3.30	2.97	2.48	1.98	XC868TR-ND	1650.00	ECS-200-20-19A-TR
	50	Series	24.000000	XC870CT-ND	3.30	2.97	2.48	1.98	XC870TR-ND	1650.00	ECS-240-S-19A-TR
	50	20.0pF	24.000000	XC869CT-ND	3.30	2.97	2.48	1.98	XC869TR-ND	1650.00	ECS-240-20-19A-TR
ECX-32 Series RoHS Compliant											
4	100	20.0pF	16.000000	XC1137CT-ND	3.57	3.22	2.68	2.15	XC1137TR-ND	1785.00	ECS-160-20-33-TR
	100	20.0pF	18.432000	XC1138CT-ND	3.57	3.22	2.68	2.15	XC1138TR-ND	1785.00	ECS-184-20-33-TR
	100	20.0pF	19.660800	XC1139CT-ND	3.57	3.22	2.68	2.15	XC1139TR-ND	1785.00	ECS-196-20-33-TR
	100	20.0pF	20.000000	XC1140CT-ND	3.57	3.22	2.68	2.15	XC1140TR-ND	1785.00	ECS-200-20-33-TR
	100	20.0pF	24.000000	XC1141CT-ND	3.57	3.22	2.68	2.15	XC1141TR-ND	1785.00	ECS-240-20-33-TR
	100	20.0pF	25.000000	XC1142CT-ND	3.57	3.22	2.68	2.15	XC1142TR-ND	1785.00	ECS-250-20-33-TR
	100	20.0pF	27.000000	XC1143CT-ND	3.57	3.22	2.68	2.15	XC1143TR-ND	1785.00	ECS-270-20-33-TR
	50	Series	30.000000	XC1145CT-ND	3.57	3.22	2.68	2.15	XC1145TR-ND	1785.00	ECS-300-S-33-TR
	50	20.0pF	30.000000	XC1144CT-ND	3.57	3.22	2.68	2.15	XC1144TR-ND	1785.00	ECS-300-20-33-TR
	50	Series	32.000000	XC1147CT-ND	3.57	3.22	2.68	2.15	XC1147TR-ND	1785.00	ECS-320-S-33-TR
	50	20.0pF	32.000000	XC1146CT-ND	3.57	3.22	2.68	2.15	XC1146TR-ND	1785.00	ECS-320-20-33-TR
	50	Series	36.000000	XC1149CT-ND	3.57	3.22	2.68	2.15	XC1149TR-ND	1785.00	ECS-360-S-33-TR
	50	20.0pF	36.000000	XC1148CT-ND	3.57	3.22	2.68	2.15	XC1148TR-ND	1785.00	ECS-360-20-33-TR
	50	Series	40.000000	XC1151CT-ND	3.57	3.22	2.68	2.15	XC1151TR-ND	1785.00	ECS-400-S-33-TR
	50	20.0pF	40.000000	XC1150CT-ND	3.57	3.22	2.68	2.15	XC1150TR-ND	1785.00	ECS-400-20-33-TR
	50	Series	48.000000	XC1153CT-ND	3.57	3.22	2.68	2.15	XC1153TR-ND	1785.00	ECS-480-S-33-TR
	50	20.0pF	48.000000	XC1152CT-ND	3.57	3.22	2.68	2.15	XC1152TR-ND	1785.00	ECS-480-20-33-TR
ECX-53B Series RoHS Compliant											
5	80	20.0pF	10.000000	XC1117CT-ND	1.77	1.60	1.33	1.07	XC1117TR-ND	885.00	ECS-100-20-30B-TR
	80	20.0pF	12.000000	XC1118CT-ND	1.77	1.60	1.33	1.07	XC1118TR-ND	885.00	ECS-120-20-30B-TR
	80	20.0pF	14.318180	XC1119CT-ND	1.77	1.60	1.33	1.07	XC1119TR-ND	885.00	ECS-143-20-30B-TR
	60	20.0pF	16.000000	XC1120CT-ND	1.77	1.60	1.33	1.07	XC1120TR-ND	885.00	ECS-160-20-30B-TR
	50	20.0pF	20.000000	XC1121CT-ND	1.77	1.60	1.33	1.07	XC1121TR-ND	885.00	ECS-200-20-30B-TR
	50	20.0pF	24.000000	XC1122CT-ND	1.77	1.60	1.33	1.07	XC1122TR-ND	885.00	ECS-240-20-30B-TR
	50	20.0pF	24.576000	XC1123CT-ND	1.77	1.60	1.33	1.07	XC1123TR-ND	885.00	ECS-245-20-30B-TR
	50	20.0pF	25.000000	XC1124CT-ND	1.77	1.60	1.33	1.07	XC1124TR-ND	885.00	ECS-250-20-30B-TR
	50	Series	27.000000	XC1126CT-ND	2.07	1.87	1.56	1.25	XC1126TR-ND	1035.00	ECS-270-S-30B-TR
	50	20.0pF	27.000000	XC1125CT-ND	1.77	1.60	1.33	1.07	XC1125TR-ND	885.00	ECS-270-20-30B-TR
	50	Series	30.000000	XC1128CT-ND	2.07	1.87	1.56	1.25	XC1128TR-ND	1035.00	ECS-300-S-30B-TR
	50	20.0pF	30.000000	XC1127CT-ND	2.07	1.87	1.56	1.25	XC1127TR-ND	1035.00	ECS-300-20-30B-TR
	50	Series	32.000000	XC1130CT-ND	2.07	1.87	1.56	1.25	XC1130TR-ND	1035.00	ECS-320-S-30B-TR
	50	20.0pF	32.000000	XC1129CT-ND	2.07	1.87	1.56	1.25	XC1129TR-ND	1035.00	ECS-320-20-30B-TR
	50	Series	36.000000	XC1132CT-ND	2.07	1.87	1.56	1.25	XC1132TR-ND	1035.00	ECS-360-S-30B-TR
	50	20.0pF	36.000000	XC1131CT-ND	2.07	1.87	1.56	1.25	XC1131TR-ND	1035.00	ECS-360-20-30B-TR
	50	Series	40.000000	XC1134CT-ND	2.37	2.14	1.78	1.43	XC1134TR-ND	1185.00	ECS-400-S-30B-TR
	50	20.0pF	40.000000	XC1133CT-ND	2.37	2.14	1.78	1.43	XC1133TR-ND	1185.00	ECS-400-20-30B-TR
	50	Series	50.000000	XC1136CT-ND	2.37	2.14	1.78	1.43	XC1136TR-ND	1185.00	ECS-500-S-30B-TR
	50	20.0pF	50.000000	XC1135CT-ND	2.37	2.14	1.78	1.43	XC1135TR-ND	1185.00	ECS-500-20-30B-TR
ECX-64A Extended Temperature Series RoHS Compliant											
6	80	Series	14.318180	XC980CT-ND	2.94	2.65	2.21	1.77	XC980TR-ND	1470.00	ECS-143-S-23A-EN-TR
	80	20.0pF	14.318180	XC979CT-ND	2.94	2.65	2.21	1.77	XC979TR-ND	1470.00	ECS-143-20-23A-EN-TR
	80	20.0pF	14.745600	XC981CT-ND	2.94	2.65	2.21	1.77	XC981TR-ND	1470.00	ECS-147-20-23A-EN-TR
	60	Series	16.000000	XC983CT-ND	2.94	2.65	2.21	1.77	XC983TR-ND	1470.00	ECS-160-S-23A-EN-TR
	60	20.0pF	16.000000	XC982CT-ND	2.94	2.65	2.21	1.77	XC982TR-ND	1470.00	ECS-160-20-23A-EN-TR
	60	Series	18.432000	XC985CT-ND	2.94	2.65	2.21	1.77	XC985TR-ND	1470.00	ECS-184-S-23A-EN-TR
	60	20.0pF	18.432000	XC984CT-ND	2.94	2.65	2.21	1.77	XC984TR-ND	1470.00	ECS-184-20-23A-EN-TR
	60	Series	19.660800	XC987CT-ND	2.94	2.65	2.21	1.77	XC987TR-ND	1470.00	ECS-196-S-23A-EN-TR
	60	20.0pF	19.660800	XC986CT-ND	2.94	2.65	2.21	1.77	XC986TR-ND	1470.00	ECS-196-20-23A-EN-TR
	40	Series	20.000000	XC989CT-ND	2.94	2.65	2.21	1.77	XC989TR-ND	1470.00	ECS-200-S-23A-EN-TR
	40	20.0pF	20.000000	XC988CT-ND	2.94	2.65	2.21	1.77	XC988TR-ND	1470.00	ECS-200-20-23A-EN-TR
	40	Series	24.000000	XC991CT-ND	2.94	2.65	2.21	1.77	XC991TR-ND	1470.00	ECS-240-S-23A-EN-TR
	40	20.0pF	24.000000	XC990CT-ND	2.94	2.65	2.21	1.77	XC990TR-ND	1470.00	ECS-240-20-23A-EN-TR

* 3rd Overtone

ECS INC. INTERNATIONAL

Through-Hole Quartz Crystals

Fig. 1

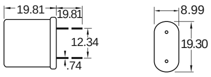

Fig. 2

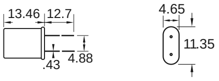

Fig. 3

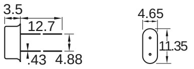

Fig. 4

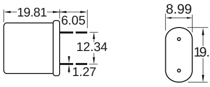

Series resonance appears resistive in the circuit and impedance at f_S is at its minimum value. Unless load capacitance is specified, all crystals are manufactured at series resonance. When a crystal is operating at parallel resonance (fL) it will look inductive in a circuit. Crystal frequency varies depending on the value of load capacitance. The load capacitance is the dynamic capacitance of the total circuit as measured or computed across the crystal terminals. Always specify the load capacitance if the crystal will be operated in the parallel mode.

HC-49U

• **Frequency Tolerance @ 25°C:** ±30ppm • **Frequency Stability:** ±50ppm • **Shunt Capacitance:** 7pF Max. • **Drive Level:** 1.800 ~ 3.000MHz 200µW; 3.000 ~ 100.000MHz 100µW • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -30°C ~ 85°C • **Aging Characteristics (First Year):** ±5ppm @ 25°C • **Mode of Operation:** Fundamental except when noted

HC49INS-ND	Base Insulator	$.90/10	$7.50/100

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
			HC-33					
1	2.94912	32.0pF	X014-ND	1.37	1.14	.91	.70	ECS-29.4-32-2P
			HC-49/UA					
2	1.00000	13.0pF	X066B-ND*	17.88	14.85	8.09	7.54	ECS-10-13-1H
			HC-49/UA RoHS Compliant					
2	1.00000	13.0pF	X999-ND*	17.88	14.85	8.09	7.54	ECS-10-13-1XH
			HC-49U					
2	1.84320	Series	X002-ND	1.95	1.62	1.29	1.00	ECS-18-S-1
	1.84320	13.0pF	X067-ND	1.95	1.62	1.29	1.00	ECS-18-13-1
	2.00000	Series	X004-ND	1.95	1.62	1.29	1.00	ECS-20-S-1
	2.00000	20.0pF	X068-ND	1.95	1.62	1.29	1.00	ECS-20-20-1
	2.04800	12.0pF	X098-ND	1.95	1.62	1.29	1.00	ECS-20.48-12-1
	2.45760	32.0pF	X069-ND	1.63	1.35	1.08	.83	ECS-24-32-1
	2.50000	Series	X070-ND	1.63	1.35	1.08	.83	ECS-25-S-1
	3.00000	Series	X009-ND	1.63	1.35	1.08	.83	ECS-30-S-1
	3.27680	17.0pF	X022-ND	.65	.54	.43	.34	ECS-32-17-1
	3.57955	Series	X011-ND	.40	.36	.32	.29	ECS-35-S-1
	3.57955	17.0pF	X049-ND	.40	.36	.32	.29	ECS-35-17-1
	3.68640	Series	X080-ND	.40	.36	.32	.29	ECS-36-S-1
	3.68640	18.0pF	X071-ND	.40	.36	.32	.29	ECS-36-18-1
	3.93216	17.0pF	X013-ND	.40	.36	.32	.29	ECS-39-17-1
	4.00000	Series	X081-ND	.40	.36	.32	.29	ECS-40-S-1
	4.00000	20.0pF	X006-ND	.40	.36	.32	.29	ECS-40-20-1
	4.03200	Series	X015-ND	.40	.36	.32	.29	ECS-40.3-S-1
	4.03200	20.0pF	X072-ND	.40	.36	.32	.29	ECS-40.3-20-1
	4.09600	20.0pF	X082-ND	.40	.36	.32	.29	ECS-41-20-1
	4.19430	12.0pF	X007-ND	.40	.36	.32	.29	ECS-42-12-1
	4.43362	20.0pF	X083-ND	.40	.36	.32	.29	ECS-44-20-1
	4.91520	Series	X050-ND	.40	.36	.32	.29	ECS-49-S-1
	4.91520	20.0pF	X084-ND	.40	.36	.32	.29	ECS-49-20-1
	5.00000	Series	X099-ND	.40	.36	.32	.29	ECS-50-S-1
	5.00000	20.0pF	X051-ND	.40	.36	.32	.29	ECS-50-20-1
	5.06880	Series	X052-ND	.40	.36	.32	.29	ECS-51-S-1
	5.06880	20.0pF	X085-ND	.40	.36	.32	.29	ECS-51-20-1
	5.18500	Series	X053-ND	.40	.36	.32	.29	ECS-52-S-1
	5.18500	32.0pF	X016-ND	.40	.36	.32	.29	ECS-52-32-1
	5.99040	Series	X073-ND	.40	.36	.32	.29	ECS-59-S-1
	5.99040	20.0pF	X017-ND	.40	.36	.32	.29	ECS-59.9-20-1
	6.00000	Series	X026-ND	.40	.36	.32	.29	ECS-60-S-1
	6.00000	32.0pF	X086-ND	.40	.36	.32	.29	ECS-60-32-1
	6.14400	32.0pF	X054-ND	.40	.36	.32	.29	ECS-61-32-1
	6.55360	12.0pF	X018-ND	.40	.36	.32	.29	ECS-65-12-1
	7.37280	Series	X074-ND	.40	.36	.32	.29	ECS-73-S-1
	7.37280	20.0pF	X019-ND	.40	.36	.32	.29	ECS-73-20-1
	7.68000	20.0pF	X020-ND	.40	.36	.32	.29	ECS-76.8-20-1
	8.00000	Series	X056-ND	.40	.36	.32	.29	ECS-80-S-1
	8.00000	18.0pF	X100-ND	.40	.36	.32	.29	ECS-80-18-1
	8.00000	20.0pF	X021-ND	.40	.36	.32	.29	ECS-80-20-1
	8.00000	32.0pF	X137-ND	.40	.36	.32	.29	ECS-80-32-1
	9.21600	Series	X075-ND	.40	.36	.32	.29	ECS-92.1-S-1
	9.21600	20.0pF	X138-ND	.40	.36	.32	.29	ECS-92.1-20-1
	9.83040	Series	X023-ND	.40	.36	.32	.29	ECS-98.3-S-1
	9.83040	20.0pF	X087-ND	.40	.36	.32	.29	ECS-98.3-20-1
	10.00000	Series	X057-ND	.40	.36	.32	.29	ECS-100-S-1
	10.73864	Series	X024-ND	.40	.36	.32	.29	ECS-107.3-S-1
	11.00000	Series	X088-ND	.40	.36	.32	.29	ECS-110-S-1
	11.04600	Series	X025-ND	.40	.36	.32	.29	ECS-110.4-S-1
	11.05920	Series	X078-ND	.40	.36	.32	.29	ECS-110.5-S-1
	11.05920	20.0pF	X089-ND	.40	.36	.32	.29	ECS-110.5-20-1

HC-49US

• **Frequency Tolerance @ 25°C:** ±30ppm • **Frequency Stability @ 25°C:** Standard -10°C ~ 70°C ±50ppm • **Shunt Capacitance: 7pF Max.** • **Drive Level:** 500µW • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -40°C ~ 105°C • **Aging Characteristics (First Year):** ±5ppm @ 25°C • **Mode of Operation:** Fundamental except when noted

HC-49US-DN

• **Frequency Tolerance @ 25°C:** ±30ppm • **Frequency Stability @ 25°C:** ±100ppm from -40°C ~ 85°C • **Shunt Capacitance:** 7pF Max. • **Drive Level:** 500 µW • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -40°C ~ 105°C • **Aging Characteristics (per year) @ 25°C ±3°C:** ±5ppm Max • **Mode of Operation:** Fundamental except when noted

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
			HC-49U					
2	11.05920	32.0pF	X139-ND	.40	.36	.32	.29	ECS-110.5-32-1
	11.22800	Series	X028-ND	.40	.36	.32	.29	ECS-112.2-S-1
	11.52000	Series	X140-ND	.40	.36	.32	.29	ECS-115.2-S-1
	11.98135	Series	X029-ND	.40	.36	.32	.29	ECS-119.8-S-1
	12.00000	Series	X058-ND	.40	.36	.32	.29	ECS-120-S-1
	12.00000	32.0pF	X030-ND	.40	.36	.32	.29	ECS-120-32-1
	12.00039	18.0pF	X147-ND	.40	.36	.32	.29	ECS-120.003-18-1
	12.09600	Series	X031-ND	.40	.36	.32	.29	ECS-121-S-1
	12.28800	Series	X090-ND	.40	.36	.32	.29	ECS-122.8-S-1
	12.28800	20.0pF	X141-ND	.40	.36	.32	.29	ECS-122.8-20-1
	13.51680	Series	X032-ND	.40	.36	.32	.29	ECS-135-S-1
	14.31818	Series	X091-ND	.40	.36	.32	.29	ECS-143-S-1
	14.69000	Series	X033-ND	.40	.36	.32	.29	ECS-146-S-1
	14.74560	Series	X092-ND	.40	.36	.32	.29	ECS-147.4-S-1
	14.74560	20.0pF	X142-ND	.40	.36	.32	.29	ECS-147.4-20-1
	15.00000	Series	X059-ND	.40	.36	.32	.29	ECS-150-S-1
	16.00000	Series	X077-ND	.40	.36	.32	.29	ECS-160-S-1
	16.00000	20.0pF	X143-ND	.40	.36	.32	.29	ECS-160-20-1
	16.00031	18.0pF	X148-ND	.40	.36	.32	.29	ECS-160.003-18-1
	18.00000	Series	X060-ND	.40	.36	.32	.29	ECS-180-S-1
	18.00000	20.0pF	X144-ND	.40	.36	.32	.29	ECS-180-20-1
	18.43200	Series	X061-ND	.40	.36	.32	.29	ECS-184-S-1
	18.43200	18.0pF	X145-ND	.40	.36	.32	.29	ECS-184-18-1
	18.43200	20.0pF	X146-ND	.40	.36	.32	.29	ECS-184-20-1
	19.66080	Series	X094-ND	.40	.36	.32	.29	ECS-196.6-S-1
	19.66080	20.0pF	X035-ND	.40	.36	.32	.29	ECS-196.6-20-1
	20.00000	Series	X062-ND	.40	.36	.32	.29	ECS-200-S-1
	20.00000	20.0pF	X036-ND	.40	.36	.32	.29	ECS-200-20-1
	22.11840	Series	X063-ND	.40	.36	.32	.29	ECS-221-S-1
	24.00000	Series	X095-ND	.40	.36	.32	.29	ECS-240-S-1
	24.00000	20.0pF	X037-ND	.40	.36	.32	.29	ECS-240-20-1
	24.00010	18.0pF	X149-ND	.40	.36	.32	.29	ECS-240.001-18-1
	35.25120	18.0pF	X151-ND†	.50	.45	.36	.32	ECS-352.5-18-1
	38.00053	18.0pF	X150-ND†	.50	.45	.36	.32	ECS-380.005-18-1
	40.32000	18.0pF	X152-ND†	.50	.45	.36	.32	ECS-403.2-18-1
	48.00000	Series	X065-ND†	.40	.36	.32	.29	ECS-480-S-1
	48.00000	20.0pF	XC943-ND†	.50	.45	.36	.32	ECS-480-20-1
	49.86000	20.0pF	X038-ND†	.40	.36	.32	.29	ECS-498.6-20-1
			HC-49U RoHS Compliant					
2	1.84320	Series	X969-ND	1.95	1.62	1.29	1.00	ECS-18-S-1X
	1.84320	13.0pF	X1000-ND	1.95	1.62	1.29	1.00	ECS-18-13-1X
	2.00000	Series	X970-ND	1.95	1.62	1.29	1.00	ECS-20-S-1X
	2.00000	20.0pF	X1001-ND	1.95	1.62	1.29	1.00	ECS-20-20-1X
	2.04800	12.0pF	X1025-ND	1.95	1.62	1.29	1.00	ECS-20.48-12-1X
	2.45760	32.0pF	X1002-ND	1.63	1.35	1.08	.83	ECS-24-32-1X
	2.50000	Series	X1003-ND	1.63	1.35	1.08	.83	ECS-25-S-1X
	3.00000	Series	X973-ND	1.63	1.35	1.08	.83	ECS-30-S-1X
	3.27680	17.0pF	X980-ND	.65	.54	.43	.34	ECS-32-17-1X
	3.57955	Series	X974-ND	.40	.36	.32	.29	ECS-35-S-1X
	3.57955	17.0pF	X987-ND	.40	.36	.32	.29	ECS-35-17-1X
	3.68640	Series	X1010-ND	.40	.36	.32	.29	ECS-36-S-1X
	3.68640	18.0pF	X1004-ND	.40	.36	.32	.29	ECS-36-18-1X
	3.93216	17.0pF	X975-ND	.40	.36	.32	.29	ECS-39-17-1X
	4.00000	Series	X1011-ND	.40	.36	.32	.29	ECS-40-S-1X
	4.00000	20.0pF	X971-ND	.40	.36	.32	.29	ECS-40-20-1X
	4.03200	Series	X976-ND	.40	.36	.32	.29	ECS-40.3-S-1X

* 1.0 Frequency: 100ppm @ 25°C; ±100ppm from 0°C ~ 60°C † 3rd Overtone

(Continued)

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each				ECS Part No.
				1	10	100	500	
HC-49U RoHS Compliant								
2	4.03200	20.0pF	X1005-ND	.40	.36	.32	.29	ECS-40.3-20-1X
	4.09600	20.0pF	X1012-ND	.40	.36	.32	.29	ECS-41-20-1X
	4.19430	12.0pF	X972-ND	.40	.36	.32	.29	ECS-42-12-1X
	4.43362	20.0pF	X1013-ND	.40	.36	.32	.29	ECS-44-20-1X
	4.91520	Series	X988-ND	.40	.36	.32	.29	ECS-49-S-1X
	4.91520	20.0pF	X1014-ND	.40	.36	.32	.29	ECS-49-20-1X
	5.00000	Series	X1026-ND	.40	.36	.32	.29	ECS-50-S-1X
	5.00000	20.0pF	X989-ND	.40	.36	.32	.29	ECS-50-20-1X
	5.06880	Series	X990-ND	.40	.36	.32	.29	ECS-51-S-1X
	5.06880	20.0pF	X1015-ND	.40	.36	.32	.29	ECS-51-20-1X
	6.00000	Series	X982-ND	.40	.36	.32	.29	ECS-60-S-1X
	6.00000	32.0pF	X1016-ND	.40	.36	.32	.29	ECS-60-32-1X
	6.55360	12.0pF	X977-ND	.40	.36	.32	.29	ECS-65-12-1X
	7.37280	Series	X1006-ND	.40	.36	.32	.29	ECS-73-S-1X
	7.37280	20.0pF	X978-ND	.40	.36	.32	.29	ECS-73-20-1X
	8.00000	Series	X991-ND	.40	.36	.32	.29	ECS-80-S-1X
	8.00000	18.0pF	X1027-ND	.40	.36	.32	.29	ECS-80-18-1X
	8.00000	20.0pF	X979-ND	.40	.36	.32	.29	ECS-80-20-1X
	8.00000	32.0pF	X1028-ND	.40	.36	.32	.29	ECS-80-32-1X
	9.21600	Series	X1007-ND	.40	.36	.32	.29	ECS-92.1-S-1X
	9.21600	20.0pF	X1029-ND	.40	.36	.32	.29	ECS-92.1-20-1X
	9.83040	Series	X981-ND	.40	.36	.32	.29	ECS-98.3-S-1X
	9.83040	20.0pF	X1017-ND	.40	.36	.32	.29	ECS-98.3-20-1X
	10.00000	Series	X992-ND	.40	.36	.32	.29	ECS-100-S-1X
	11.00000	Series	X1018-ND	.40	.36	.32	.29	ECS-110-S-1X
	11.05920	Series	X1009-ND	.40	.36	.32	.29	ECS-110.5-S-1X
	11.05920	20.0pF	X1019-ND	.40	.36	.32	.29	ECS-110.5-20-1X
	11.05920	32.0pF	X1030-ND	.40	.36	.32	.29	ECS-110.5-32-1X
	12.00000	Series	X993-ND	.40	.36	.32	.29	ECS-120-S-1X
	12.00000	32.0pF	X983-ND	.40	.36	.32	.29	ECS-120-32-1X
	12.28800	Series	X1020-ND	.40	.36	.32	.29	ECS-122.8-S-1X
	12.28800	20.0pF	X1031-ND	.40	.36	.32	.29	ECS-122.8-20-1X
	14.31818	Series	X1021-ND	.40	.36	.32	.29	ECS-143-S-1X
	14.74560	Series	X1022-ND	.40	.36	.32	.29	ECS-147.4-S-1X
	14.74560	20.0pF	X1032-ND	.40	.36	.32	.29	ECS-147.4-20-1X
	15.00000	Series	X994-ND	.40	.36	.32	.29	ECS-150-S-1X
	16.00000	Series	X1008-ND	.40	.36	.32	.29	ECS-160-S-1X
	16.00000	20.0pF	X1033-ND	.40	.36	.32	.29	ECS-160-20-1X
	18.00000	20.0pF	X1034-ND	.40	.36	.32	.29	ECS-180-20-1X
	18.43200	Series	X995-ND	.40	.36	.32	.29	ECS-184-S-1X
	18.43200	18.0pF	X1035-ND	.40	.36	.32	.29	ECS-184-18-1X
	18.43200	20.0pF	X1036-ND	.40	.36	.32	.29	ECS-184-20-1X
	19.66080	Series	X1023-ND	.40	.36	.32	.29	ECS-196.6-S-1X
	19.66080	20.0pF	X984-ND	.40	.36	.32	.29	ECS-196.6-20-1X
	20.00000	Series	X996-ND	.40	.36	.32	.29	ECS-200-S-1X
	20.00000	20.0pF	X985-ND	.40	.36	.32	.29	ECS-200-20-1X
	22.11840	Series	X997-ND	.40	.36	.32	.29	ECS-221-S-1X
	24.00000	Series	X1024-ND	.40	.36	.32	.29	ECS-240-S-1X
	24.00000	20.0pF	X986-ND	.40	.36	.32	.29	ECS-240-20-1X
	48.00000	Series	X998-ND†	.40	.36	.32	.29	ECS-480-S-1X
HC-49US								
3	3.57955	Series	X153-ND	.58	.52	.42	.37	ECS-35-S-4
	3.57955	17.0pF	X079-ND	.58	.52	.42	.37	ECS-35-17-4
	3.68640	Series	X403-ND	.58	.52	.42	.37	ECS-36-S-4
	3.68640	18.0pF	X402-ND	.58	.52	.42	.37	ECS-36-18-4
	4.00000	Series	X404-ND	.58	.52	.42	.37	ECS-40-S-4
	4.00000	20.0pF	X405-ND	.58	.52	.42	.37	ECS-40-20-4
	4.03200	Series	X155-ND	.58	.52	.42	.37	ECS-40.3-S-4
	4.03200	20.0pF	X154-ND	.58	.52	.42	.37	ECS-40.3-20-4
	4.09600	20.0pF	X156-ND	.58	.52	.42	.37	ECS-41-20-4
	4.19430	12.0pF	X406-ND	.58	.52	.42	.37	ECS-42-12-4
	4.19430	16.0pF	X157-ND	.58	.52	.42	.37	ECS-42-16-4
	4.43362	20.0pF	X407-ND	.58	.52	.42	.37	ECS-44-20-4
	4.91520	Series	X408-ND	.58	.52	.42	.37	ECS-49-S-4
	4.91520	20.0pF	X409-ND	.58	.52	.42	.37	ECS-49-20-4
	5.00000	Series	X158-ND	.58	.52	.42	.37	ECS-50-S-4
	5.00000	20.0pF	X410-ND	.58	.52	.42	.37	ECS-50-20-4
	5.06880	Series	X159-ND	.58	.52	.42	.37	ECS-51-S-4
	5.06880	20.0pF	X411-ND	.58	.52	.42	.37	ECS-51-20-4
	5.18500	Series	X160-ND	.58	.52	.42	.37	ECS-52-S-4
	5.18500	32.0pF	X064-ND	.75	.63	.50	.39	ECS-52-32-4
	5.99040	Series	X161-ND	.58	.52	.42	.37	ECS-59-S-4
	5.99040	20.0pF	X162-ND	.58	.52	.42	.37	ECS-59.9-20-4
	6.00000	Series	X412-ND	.58	.52	.42	.37	ECS-60-S-4
	6.00000	32.0pF	X413-ND	.58	.52	.42	.37	ECS-60-32-4
	6.14400	32.0pF	X414-ND	.58	.52	.42	.37	ECS-61-32-4

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each				ECS Part No.
				1	10	100	500	
HC-49US								
3	6.50000	20.0pF	X415-ND	.58	.52	.42	.37	ECS-65-20-4
	7.37280	Series	X416-ND	.58	.52	.42	.37	ECS-73-S-4
	7.37280	20.0pF	X076-ND	.75	.63	.50	.39	ECS-73-20-4
	7.68000	20.0pF	X163-ND	.58	.52	.42	.37	ECS-76.8-20-4
	8.00000	Series	X417-ND	.58	.52	.42	.37	ECS-80-S-4
	8.00000	18.0pF	X164-ND	.58	.52	.42	.37	ECS-80-18-4
	8.00000	20.0pF	X165-ND	.58	.52	.42	.37	ECS-80-20-4
	8.00000	32.0pF	X166-ND	.58	.52	.42	.37	ECS-80-32-4
	8.50000	Series	X418-ND	.58	.52	.42	.37	ECS-85-S-4
	9.00000	Series	X419-ND	.58	.52	.42	.37	ECS-90-S-4
	9.21600	Series	X167-ND	.58	.52	.42	.37	ECS-92.1-S-4
	9.21600	20.0pF	X168-ND	.58	.52	.42	.37	ECS-92.1-20-4
	9.54500	Series	X420-ND	.58	.52	.42	.37	ECS-95.4-S-4
	9.83040	Series	X421-ND	.58	.52	.42	.37	ECS-98.3-S-4
	9.83040	20.0pF	X169-ND	.58	.52	.42	.37	ECS-98.3-20-4
	10.00000	Series	X422-ND	.58	.52	.42	.37	ECS-100-S-4
	10.00000	18.0pF	X443-ND	.58	.52	.42	.37	ECS-100-18-4
	10.73864	Series	X423-ND	.58	.52	.42	.37	ECS-107.3-S-4
	11.00000	Series	X424-ND	.58	.52	.42	.37	ECS-110-S-4
	11.05920	Series	X425-ND	.58	.52	.42	.37	ECS-110.5-S-4
	11.05920	20.0pF	X426-ND	.58	.52	.42	.37	ECS-110.5-20-4
	11.05920	32.0pF	X170-ND	.58	.52	.42	.37	ECS-110.5-32-4
	11.52000	Series	X171-ND	.58	.52	.42	.37	ECS-115.2-S-4
	11.98135	Series	X427-ND	.58	.52	.42	.37	ECS-119.8-S-4
	12.00000	Series	X428-ND	.58	.52	.42	.37	ECS-120-S-4
	12.00000	20.0pF	X227-ND	.58	.52	.42	.37	ECS-120-20-4
	12.00000	32.0pF	X172-ND	.58	.52	.42	.37	ECS-120-32-4
	12.00039	18.0pF	X173-ND	.58	.52	.42	.37	ECS-120.003-18-4
	12.09600	Series	X429-ND	.58	.52	.42	.37	ECS-121-S-4
	12.28800	Series	X174-ND	.58	.52	.42	.37	ECS-122.8-S-4
	12.28800	20.0pF	X228-ND	.58	.52	.42	.37	ECS-122.8-20-4
	12.96000	18.0pF	X097-ND	.75	.63	.50	.39	ECS-129.6-18-4
	14.31818	Series	X430-ND	.58	.52	.42	.37	ECS-143-S-4
	14.31818	20.0pF	X444-ND	.58	.52	.42	.37	ECS-143-20-4
	14.74560	Series	X431-ND	.58	.52	.42	.37	ECS-147.4-S-4
	14.74560	20.0pF	X175-ND	.58	.52	.42	.37	ECS-147.4-20-4
	15.00000	Series	X432-ND	.58	.52	.42	.37	ECS-150-S-4
	15.36000	20.0pF	X096-ND	.75	.63	.50	.39	ECS-153-20-4
	16.00000	Series	X433-ND	.58	.52	.42	.37	ECS-160-S-4
	16.00000	20.0pF	X176-ND	.58	.52	.42	.37	ECS-160-20-4
	16.00031	18.0pF	X177-ND	.58	.52	.42	.37	ECS-160.003-18-4
	16.25700	Series	X434-ND	.58	.52	.42	.37	ECS-162.5-S-4
	16.25700	20.0pF	X039-ND	.75	.63	.50	.39	ECS-162.5-20-4
	18.00000	Series	X435-ND	.58	.52	.42	.37	ECS-180-S-4
	18.00000	20.0pF	X178-ND	.58	.52	.42	.37	ECS-180-20-4
	18.43200	Series	X436-ND	.58	.52	.42	.37	ECS-184-S-4
	18.43200	18.0pF	X179-ND	.58	.52	.42	.37	ECS-184-18-4
	18.43200	20.0pF	X180-ND	.58	.52	.42	.37	ECS-184-20-4
	19.66080	Series	X437-ND	.58	.52	.42	.37	ECS-196.6-S-4
	19.66080	20.0pF	X181-ND	.58	.52	.42	.37	ECS-196.6-20-4
	20.00000	Series	X438-ND	.58	.52	.42	.37	ECS-200-S-4
	20.00000	20.0pF	X439-ND	.58	.52	.42	.37	ECS-200-20-4
	20.48000	20.0pF	X229-ND	.58	.52	.42	.37	ECS-204.8-20-4
	21.47727	Series	X044-ND	.75	.63	.50	.39	ECS-214.7-S-4
	22.11840	Series	X182-ND	.58	.52	.42	.37	ECS-221-S-4
	24.00000	Series	X440-ND	.58	.52	.42	.37	ECS-240-S-4
	24.00000	16.0pF	X441-ND	.58	.52	.42	.37	ECS-240-16-4
	24.00000	20.0pF	X442-ND	.58	.52	.42	.37	ECS-240-20-4
	24.00014	18.0pF	X183-ND	.58	.52	.42	.37	ECS-240.001-18-4
	24.57600	20.0pF	X230-ND	.58	.52	.42	.37	ECS-245.7-20-4
	25.00000	18.0pF	X231-ND	.58	.52	.42	.37	ECS-250-18-4-F
	48.00000	20.0pF	XC942-ND	.58	.52	.42	.37	ECS-480-20-4
HC-49US RoHS Compliant								
3	3.57955	Series	X1086-ND	.58	.52	.42	.37	ECS-35-S-4X
	3.57955	17.0pF	X1085-ND	.58	.52	.42	.37	ECS-35-17-4X
	3.68640	Series	X1043-ND	.58	.52	.42	.37	ECS-36-S-4X
	3.68640	18.0pF	X1042-ND	.58	.52	.42	.37	ECS-36-18-4X
	4.00000	Series	X1044-ND	.58	.52	.42	.37	ECS-40-S-4X
	4.00000	20.0pF	X1045-ND	.58	.52	.42	.37	ECS-40-20-4X
	4.03200	Series	X1088-ND	.58	.52	.42	.37	ECS-40.3-S-4X
	4.03200	20.0pF	X1087-ND	.58	.52	.42	.37	ECS-40.3-20-4X
	4.09600	20.0pF	X1089-ND	.58	.52	.42	.37	ECS-41-20-4X
	4.19430	12.0pF	X1046-ND	.58	.52	.42	.37	ECS-42-12-4X
	4.19430	16.0pF	X1090-ND	.58	.52	.42	.37	ECS-42-16-4X
	4.43362	20.0pF	X1047-ND	.58	.52	.42	.37	ECS-44-20-4X
	4.91520	Series	X1048-ND	.58	.52	.42	.37	ECS-49-S-4X

* 1.0 Frequency: 100ppm @ 25°C; ±100ppm from 0°C ~ 60°C † 3rd Overtone

(Continued)

ECS INC. INTERNATIONAL

Through-Hole Quartz Crystals *(Cont.)*

Fig.	Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
			HC-49US RoHS Compliant					
3	4.91520	20.0pF	X1049-ND	.58	.52	.42	.37	ECS-49-20-4X
	5.00000	Series	X1091-ND	.58	.52	.42	.37	ECS-50-S-4X
	5.00000	20.0pF	X1050-ND	.58	.52	.42	.37	ECS-50-20-4X
	5.06880	20.0pF	X1051-ND	.58	.52	.42	.37	ECS-51-20-4X
	6.00000	Series	X1052-ND	.58	.52	.42	.37	ECS-60-S-4X
	6.00000	32.0pF	X1053-ND	.58	.52	.42	.37	ECS-60-32-4X
	6.14400	32.0pF	X1054-ND	.58	.52	.42	.37	ECS-61-32-4X
	6.50000	20.0pF	X1055-ND	.58	.52	.42	.37	ECS-65-20-4X
	7.37280	Series	X1056-ND	.58	.52	.42	.37	ECS-73-S-4X
	7.37280	20.0pF	X1084-ND	.75	.63	.50	.39	ECS-73-20-4X
	7.68000	20.0pF	X1092-ND	.58	.52	.42	.37	ECS-76.8-20-4X
	8.00000	Series	X1057-ND	.58	.52	.42	.37	ECS-80-S-4X
	8.00000	18.0pF	X1093-ND	.58	.52	.42	.37	ECS-80-18-4X
	8.00000	20.0pF	X1094-ND	.58	.52	.42	.37	ECS-80-20-4X
	8.00000	32.0pF	X1095-ND	.58	.52	.42	.37	ECS-80-32-4X
	8.50000	Series	X1058-ND	.58	.52	.42	.37	ECS-85-S-4X
	9.00000	Series	X1059-ND	.58	.52	.42	.37	ECS-90-S-4X
	9.21600	20.0pF	X1096-ND	.58	.52	.42	.37	ECS-92.1-20-4X
	9.83040	Series	X1060-ND	.58	.52	.42	.37	ECS-98.3-S-4X
	9.83040	20.0pF	X1097-ND	.58	.52	.42	.37	ECS-98.3-20-4X
	10.00000	Series	X1061-ND	.58	.52	.42	.37	ECS-100-S-4X
	10.00000	18.0pF	X1080-ND	.58	.52	.42	.37	ECS-100-18-4X
	10.73864	Series	X1062-ND	.58	.52	.42	.37	ECS-107.3-S-4X
	11.00000	Series	X1063-ND	.58	.52	.42	.37	ECS-110-S-4X
	11.05920	Series	X1064-ND	.58	.52	.42	.37	ECS-110.5-S-4X
	11.05920	20.0pF	X1065-ND	.58	.52	.42	.37	ECS-110.5-20-4X
	11.05920	32.0pF	X1098-ND	.58	.52	.42	.37	ECS-110.5-32-4X
	11.52000	Series	X1099-ND	.58	.52	.42	.37	ECS-115.2-S-4X
	11.98135	Series	X1066-ND	.58	.52	.42	.37	ECS-119.8-S-4X
	12.00000	Series	X1067-ND	.58	.52	.42	.37	ECS-120-S-4X
	12.00000	20.0pF	X1037-ND	.58	.52	.42	.37	ECS-120-20-4X
	12.00000	32.0pF	X1100-ND	.58	.52	.42	.37	ECS-120-32-4X
	12.28800	Series	X1101-ND	.58	.52	.42	.37	ECS-122.8-S-4X
	12.28800	20.0pF	X1038-ND	.58	.52	.42	.37	ECS-122.8-20-4X
	12.96000	18.0pF	X1083-ND	.75	.63	.50	.39	ECS-129.6-18-4X
	14.31818	Series	X1068-ND	.58	.52	.42	.37	ECS-143-S-4X
	14.31818	20.0pF	X1081-ND	.58	.52	.42	.37	ECS-143-20-4X
	14.74560	Series	X1069-ND	.58	.52	.42	.37	ECS-147.4-S-4X
	14.74560	20.0pF	X1102-ND	.58	.52	.42	.37	ECS-147.4-20-4X
	15.00000	Series	X1070-ND	.58	.52	.42	.37	ECS-150-S-4X
	15.36000	20.0pF	X1082-ND	.75	.63	.50	.39	ECS-153-20-4X
	16.00000	Series	X1071-ND	.58	.52	.42	.37	ECS-160-S-4X
	16.00000	20.0pF	X1103-ND	.58	.52	.42	.37	ECS-160-20-4X
	16.00031	18.0pF	X1104-ND	.58	.52	.42	.37	ECS-160.003-18-4X
	18.00000	Series	X1072-ND	.58	.52	.42	.37	ECS-180-S-4X
			HC-49US RoHS Compliant					
3	18.00000	20.0pF	X1105-ND	.58	.52	.42	.37	ECS-180-20-4X
	18.43200	Series	X1073-ND	.58	.52	.42	.37	ECS-184-S-4X
	18.43200	18.0pF	X1106-ND	.58	.52	.42	.37	ECS-184-18-4X
	18.43200	20.0pF	X1107-ND	.58	.52	.42	.37	ECS-184-20-4X
	19.66080	Series	X1074-ND	.58	.52	.42	.37	ECS-196.6-S-4X
	19.66080	20.0pF	X1108-ND	.58	.52	.42	.37	ECS-196.6-20-4X
	20.00000	Series	X1075-ND	.58	.52	.42	.37	ECS-200-S-4X
	20.00000	20.0pF	X1076-ND	.58	.52	.42	.37	ECS-200-20-4X
	20.48000	20.0pF	X1039-ND	.58	.52	.42	.37	ECS-204.8-20-4X
	22.11840	Series	X1109-ND	.58	.52	.42	.37	ECS-221-S-4X
	24.00000	Series	X1077-ND	.58	.52	.42	.37	ECS-240-S-4X
	24.00000	12.0pF	XC1005-ND	.58	.52	.42	.37	ECS-240-12-4X
	24.00000	16.0pF	X1078-ND	.58	.52	.42	.37	ECS-240-16-4X
	24.00000	20.0pF	X1079-ND	.58	.52	.42	.37	ECS-240-20-4X
	24.57600	20.0pF	X1040-ND	.58	.52	.42	.37	ECS-245.7-20-4X
	25.00000	18.0pF	X1041-ND	.58	.52	.42	.37	ECS-250-18-4X-F
	27.00000	18.0pF	XC1006-ND	.58	.52	.42	.37	ECS-270-18-4X-F
			HC-49US-DN					
3	3.57955	17.0pF	X184-ND	.80	.72	.58	.52	ECS-35-17-4DN
	3.68640	20.0pF	X185-ND	.80	.72	.58	.52	ECS-36-20-4DN
	4.00000	20.0pF	X186-ND	.80	.72	.58	.52	ECS-40-20-4DN
	6.00000	32.0pF	X187-ND	.80	.72	.58	.52	ECS-60-32-4DN
	7.37280	20.0pF	X188-ND	.80	.72	.58	.52	ECS-73-20-4DN
	8.00000	18.0pF	X189-ND	.80	.72	.58	.52	ECS-80-18-4DN
	12.00000	20.0pF	X190-ND	.80	.72	.58	.52	ECS-120-20-4DN
	14.31818	20.0pF	X191-ND	.80	.72	.58	.52	ECS-143-20-4DN
	16.00000	20.0pF	X192-ND	.80	.72	.58	.52	ECS-160-20-4DN
	18.43200	20.0pF	X193-ND	.80	.72	.58	.52	ECS-184-20-4DN
	19.66080	20.0pF	X194-ND	.80	.72	.58	.52	ECS-196.6-20-4DN
	20.00000	20.0pF	X195-ND	.80	.72	.58	.52	ECS-200-20-4DN
	24.00000	20.0pF	X196-ND	.80	.72	.58	.52	ECS-240-20-4DN
			HC-49US-DN RoHS Compliant					
3	3.57955	17.0pF	X1110-ND	.80	.72	.58	.52	ECS-35-17-4XDN
	3.68640	20.0pF	X1111-ND	.80	.72	.58	.52	ECS-36-20-4XDN
	4.00000	20.0pF	X1112-ND	.80	.72	.58	.52	ECS-40-20-4XDN
	6.00000	32.0pF	X1113-ND	.80	.72	.58	.52	ECS-60-32-4XDN
	7.37280	20.0pF	X1114-ND	.80	.72	.58	.52	ECS-73-20-4XDN
	8.00000	18.0pF	X1115-ND	.80	.72	.58	.52	ECS-80-18-4XDN
	12.00000	20.0pF	X1116-ND	.80	.72	.58	.52	ECS-120-20-4XDN
	14.31818	20.0pF	X1117-ND	.80	.72	.58	.52	ECS-143-20-4XDN
	16.00000	20.0pF	X1118-ND	.80	.72	.58	.52	ECS-160-20-4XDN
	18.43200	20.0pF	X1119-ND	.80	.72	.58	.52	ECS-184-20-4XDN
	19.66080	20.0pF	X1120-ND	.80	.72	.58	.52	ECS-196.6-20-4XDN
	20.00000	20.0pF	X1121-ND	.80	.72	.58	.52	ECS-200-20-4XDN
	24.00000	20.0pF	X1122-ND	.80	.72	.58	.52	ECS-240-20-4XDN
			HC-6/U					
4	3.64000	32.0pF	X008-ND	1.24	1.03	.82	.64	ECS-36.4-32-2P
	3.70000	32.0pF	X012-ND	1.24	1.03	.82	.64	ECS-37-32-2P

* 1.0 Frequency: 100ppm @ 25°C; ±100ppm from 0°C ~ 60°C † 3rd Overtone

SMD Low Profile Quartz Crystals ECX-64

Fig. 1 ECX-64A (23A)

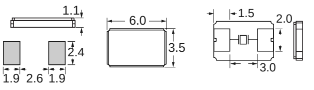

Fig. 2 ECX-64B (23B)

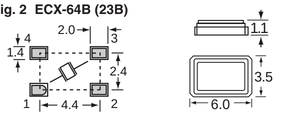

Electrical Characteristics:

- **Frequency Tolerance:** ±50ppm
- **Shunt Capacitance:** 7pF
- **Drive Level:** 100µW
- **Operating Temperature:** -10°C ~ 70°C
- **Storage Temperature:** -40°C ~ 85°C
- **Aging (First Year):** ±2ppm
- **Equivalent Series Resistance (ESR):** 40Ω
- **Operating Mode:** Fundamental

Fig.	Load Capacitance	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	ECS Part No.
			ECX-64A RoHS Compliant					
1	Series	14.31818	XC822CT-ND	3.30	2.97	2.48	1650.00	ECS-143-S-23A-TR
	20.0pF	14.31818	XC821CT-ND	3.30	2.97	2.48	1650.00	ECS-143-20-23A-TR
	20.0pF	14.74560	XC823CT-ND	3.30	2.97	2.48	1650.00	ECS-147-20-23A-TR
	Series	16.00000	XC825CT-ND	3.30	2.97	2.48	1650.00	ECS-160-S-23A-TR
	20.0pF	16.00000	XC824CT-ND	3.30	2.97	2.48	1650.00	ECS-160-20-23A-TR
	Series	18.43200	XC827CT-ND	3.30	2.97	2.48	1650.00	ECS-184-S-23A-TR
	20.0pF	18.43200	XC826CT-ND	3.30	2.97	2.48	1650.00	ECS-184-20-23A-TR
	Series	19.66080	XC829CT-ND	3.30	2.97	2.48	1650.00	ECS-196-S-23A-TR
	20.0pF	19.66080	XC828CT-ND	3.30	2.97	2.48	1650.00	ECS-196-20-23A-TR
	Series	20.00000	XC831CT-ND	3.30	2.97	2.48	1650.00	ECS-200-S-23A-TR
	20.0pF	20.00000	XC830CT-ND	3.30	2.97	2.48	1650.00	ECS-200-20-23A-TR
	Series	24.00000	XC832CT-ND	3.30	2.97	2.48	1650.00	ECS-240-S-23A-TR

Fig.	Load Capaci-tance	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	ECS Part No.
			ECX-64B RoHS Compliant					
2	20.0pF	12.00000	XC1013CT-ND	3.75	3.38	2.82	1875.00	ECS-120-20-23B-TR
	Series	14.31818	XC810CT-ND	3.75	3.38	2.82	1875.00	ECS-143-S-23B-TR
	20.0pF	14.31818	XC809CT-ND	3.75	3.38	2.82	1875.00	ECS-143-20-23B-TR
	20.0pF	14.74560	XC811CT-ND	3.75	3.38	2.82	1875.00	ECS-147-20-23B-TR
	Series	16.00000	XC813CT-ND	3.75	3.38	2.82	1875.00	ECS-160-S-23B-TR
	20.0pF	16.00000	XC812CT-ND	3.75	3.38	2.82	1875.00	ECS-160-20-23B-TR
	Series	18.43200	XC815CT-ND	3.75	3.38	2.82	1875.00	ECS-184-S-23B-TR
	20.0pF	18.43200	XC814CT-ND	3.75	3.38	2.82	1875.00	ECS-184-20-23B-TR
	Series	19.66080	XC817CT-ND	3.75	3.38	2.82	1875.00	ECS-196-S-23B-TR
	20.0pF	19.66080	XC816CT-ND	3.75	3.38	2.82	1875.00	ECS-196-20-23B-TR
	Series	20.00000	XC819CT-ND	3.75	3.38	2.82	1875.00	ECS-200-S-23B-TR
	20.0pF	20.00000	XC818CT-ND	3.75	3.38	2.82	1875.00	ECS-200-20-23B-TR
	Series	24.00000	XC820CT-ND	3.75	3.38	2.82	1875.00	ECS-240-S-23B-TR
	20.0pF	24.00000	XC1014CT-ND	3.75	3.38	2.82	1875.00	ECS-240-20-23B-TR
	18.0pF	25.00000	XC1015CT-ND	3.75	3.38	2.82	1875.00	ECS-250-18-23B-F-TR

* For Tape & Reel Part No., change CT-ND to TR-ND.

SMD Ultralow Profile Quartz Crystals

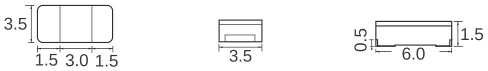

Electrical Characteristics:

- **Operating Mode:** Fundamental
- **Drive Level:** 10µW
- **Frequency Tolerance:** ±50ppm
- **Operating Temperature:** -10°C ~ 70°C

Load Capacitance	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	ECS Part No.
Series	18	XC804CT-ND	3.91	3.56	3.16	ECS-180-S-15-TR
Series	24	XC808CT-ND	3.91	3.56	3.16	ECS-240-S-15-TR

Quartz Crystals - 32.768 KHz

Parabolic Temperature Curve

To determine frequency stability, use parabolic curvature. For example: What is the stability at 45ºC?
(1) Change in T (ºC) = 45 - 25 = 20ºC
(2) Change in frequency
= 0.04 PPM x (ΔT)
= 0.04 PPM x (20)
= -16.0 PPM

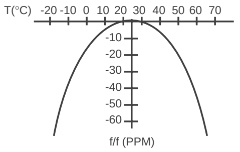

Cylinder Type

	X801-ND	X802-ND	X803-ND
Frequency	32.768kHz	32.768kHz	32.768kHz
Frequency Tolerance @ 25°C	±20ppm	±20ppm	±20ppm
Drive Level	1µW	1µW	1µW
Equivalent Series Resistance	35kΩ	35kΩ	40kΩ
Shunt Capacitance	1.6pF Typ.	1.35pF Typ.	1.00pF Typ.
Operating Temperature Range	-10°C ~ 60°C	-10°C ~ 60°C	-10°C ~ 60°C
Storage Temperature Range	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C

Fig. 1 X801

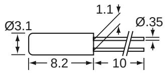

Fig. 2 X802

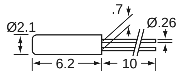

Fig. 3 X803

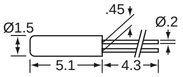

Fig.	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	ECS Part No.
1	12.5pF	X801-ND	.30	.27	.22	ECS-3X8
2	12.5pF	X802-ND	.30	.27	.22	ECS-.327-12.5-13
3	8.0pF	X803-ND	2.63	2.37	1.89	ECS-.327-8-14
		RoHS Compliant				
1	12.5pF	X1123-ND	.30	.27	.22	ECS-3X8X
2	12.5pF	X1124-ND	.30	.27	.22	ECS-.327-12.5-13X
3	8.0pF	X1125-ND	.63	.57	.45	ECS-.327-8-14X

ECX-306

Fig 4

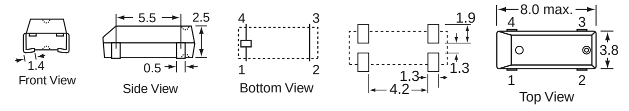

ECX-306 Series Specifications:
• **Frequency:** 32.768kHz • **Frequency Tolerance @ 25°C:** ±20ppm • **Equivalent Series Resistance:** 50kΩ Max. • **Shunt Capacitance:** 1.3pF Typ. • **Drive Level:** 1µW Max. • **Calibration Tolerance:** ±20 ppm @ 25°C • **Temperature Coefficient:** -0.040 ppm/°C2 Max. • **Operating Temperature:** -40°C ~ 85°C Max. • **Storage Temperature:** -55°C ~ 125°C • **Q Factor:** 50,000 Minimum • **Turnover Temperature:** 25°C (±5°C) • **Insulation Resistance:** 500MΩ Minimum, 100V DC • **Motional Capacitance:** 0.003pF Typ. • **Aging (first year):** ±3ppm Max. @ 25°C

Fig.	Load Capacitance	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	ECS Part No.
4	6.0pF	XC746CT-ND	1.08	.90	.72	XC746TR-ND	560.00/M	ECS-.327-6-17-TR
4	12.5pF	XC488CT-ND	1.08	.90	.72	XC488TR-ND	560.00/M	ECS-.327-12.5-17-TR
				RoHS Compliant				
4	6.0pF	XC1307CT-ND	1.08	.90	.72	XC1307TR-ND	560.00/M	ECS-.327-6-17X-TR
4	12.5pF	XC1195CT-ND	1.08	.90	.72	XC1195TR-ND	560.00/M	ECS-.327-12.5-17X-TR

ECX-31

Fig. 5

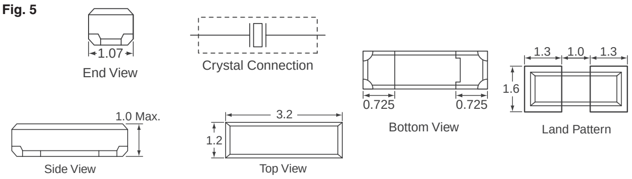

Fig.	Load Capacitance	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	ECS Part No.
				RoHS Compliant				
5	12.5pF	XC1085CT-ND	4.47	4.03	3.36	XC1085TR-ND	2235.00/M	ECS-.327-12.5-32-TR

ECX-3TA

Fig. 6

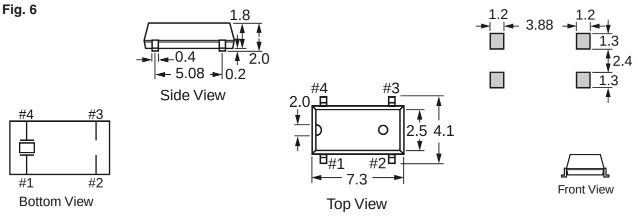

ECX-3TA Series Specifications:
• **Frequency:** 32.768kHz • **Freq. Tolerance @ 25°C:** ±20ppm • **Equivalent Series Resistance:** 50kΩ Max. • **Shunt Capacitance:** 2.0pF Typ. • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C

Fig.	Load Capacitance	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	ECS Part No.
6	12.5pF	X488CT-ND	1.62	1.35	1.08	X488TR-ND	840.00/M	ECS-.327-12.5-24-TR
				RoHS Compliant				
6	12.5pF	X968CT-ND	1.62	1.35	1.08	X968TR-ND	840.00/M	ECS-.327-12.5-24X-TR

Quartz Crystals - ECS-31 Series

Specifications:
- **Frequency Tolerance:** ±30ppm @ 25ºC
- **Temperature Coefficient:** -0.034ppm/°C
- **Operating Temperature:** -10°C ~ 60°C
- **Storage Temperature:** -40°C ~ 85°C
- **Equivalent Series Resistance (ESR):** 30kΩ ~ 50kΩ Max.
- **Shunt Capacitance:** .8pF ~ 1.7pF
- **Drive Level:** 1µW Max.
- **Insulation Resistance:** 500MΩ Min./DC 100V ±15V
- **Aging (First Year):** ±5ppm Max. @25ºC ±3ºC

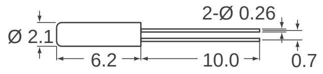

Frequency (kHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
32.000	12.5pF	XC972-ND	.83	.75	.60	.53	ECS-.320-12.5-13
40.000	12.5pF	XC973-ND	.83	.75	.60	.53	ECS-.400-12.5-13
60.000	12.5pF	XC974-ND	.83	.75	.60	.53	ECS-.600-12.5-13
65.536	12.5pF	XC975-ND	.83	.75	.60	.53	ECS-.655-12.5-13
75.000	12.5pF	XC976-ND	.83	.75	.60	.53	ECS-.750-12.5-13
100.000	12.5pF	XC977-ND	.83	.75	.60	.53	ECS-1.00-12.5-13
125.000	12.5pF	XC999-ND	.83	.75	.60	.53	ECS-1.25-12.5-13
153.600	12.5pF	XC978-ND	.83	.75	.60	.53	ECS-1.536-12.5-13
		RoHS Compliant					
32.000	12.5pF	XC1392-ND	.83	.75	.60	.53	ECS-.320-12.5-13X
65.536	12.5pF	XC1393-ND	.83	.75	.60	.53	ECS-.655-12.5-13X
100.000	12.5pF	XC1394-ND	.83	.75	.60	.53	ECS-1.00-12.5-13X
153.600	12.5pF	XC1395-ND	.83	.75	.60	.53	ECS-1.536-12.5-13X

AB Series HC49U Crystals

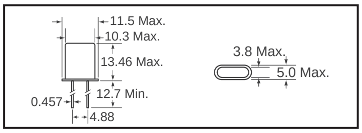

Specifications:
- **Frequency Stability:** ±100ppm, -20°C ~ 70°C
- **Frequency Tolerance:** ±20ppm
- **Operating Temperature:** -20°C ~70°C
- **Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	100	Abracon Part No.
1.843200	535-9009-ND	1.40	1.20	1.10	1.00	AB-1.8432MHZ-B2
2.000000	535-9016-ND	1.40	1.20	1.10	1.00	AB-2.000MHZ-B2
3.579545	535-9019-ND	.42	.36	.33	.30	AB-3.579545MHZ-B2
3.686400	535-9020-ND	.42	.36	.33	.30	AB-3.6864MHZ-B2
4.000000	535-9022-ND	.42	.36	.33	.30	AB-4.000MHZ-B2
4.915200	535-9023-ND	.42	.36	.33	.30	AB-4.9152MHZ-B2
5.000000	535-9025-ND	.42	.36	.33	.30	AB-5.000MHZ-B2
6.000000	535-9026-ND	.42	.36	.33	.30	AB-6.000MHZ-B2
7.372800	535-9027-ND	.42	.36	.33	.30	AB-7.3728MHZ-B2
8.000000	535-9028-ND	.42	.36	.33	.30	AB-8.000MHZ-B2
8.192000	535-9029-ND	.42	.36	.33	.30	AB-8.192MHZ-B2
9.830400	535-9030-ND	.42	.36	.33	.30	AB-9.8304MHZ-B2
10.000000	535-9000-ND	.42	.36	.33	.30	AB-10.000MHZ-B2
11.059200	535-9001-ND	.42	.36	.33	.30	AB-11.0592MHZ-B2
12.000000	535-9002-ND	.42	.36	.33	.30	AB-12.000MHZ-B2
12.288000	535-9003-ND	.42	.36	.33	.30	AB-12.288MHZ-B2
14.318180	535-9004-ND	.42	.36	.33	.30	AB-14.31818MHZ-B2
14.745600	535-9005-ND	.42	.36	.33	.30	AB-14.7456MHZ-B2
16.000000	535-9006-ND	.42	.36	.33	.30	AB-16.000MHZ-B2
18.432000	535-9007-ND	.42	.36	.33	.30	AB-18.432MHZ-B2
19.660800	535-9008-ND	.42	.36	.33	.30	AB-19.6608MHZ-B2
20.000000	535-9010-ND	.42	.36	.33	.30	AB-20.000MHZ-B2
22.118400	535-9011-ND	.42	.36	.33	.30	AB-22.1184MHZ-B2
24.000000	535-9012-ND	.42	.36	.33	.30	AB-24.000MHZ-B2
24.576000	535-9013-ND	.42	.36	.33	.30	AB-24.576MHZ-B2F
25.000000	535-9014-ND	.42	.36	.33	.30	AB-25.000MHZ-B2F
27.000000	535-9015-ND	.42	.36	.33	.30	AB-27.000MHZ-B2F
32.000000	535-9017-ND	.42	.36	.33	.30	AB-32.000MHZ-B2
32.768000	535-9018-ND	.42	.36	.33	.30	AB-32.768MHZ-B2
48.000000	535-9021-ND	.88	.75	.69	.63	AB-48.000MHZ-B2
50.000000	535-9024-ND	.88	.75	.69	.63	AB-50.000MHZ-B2

ABL Series HC49US Crystals

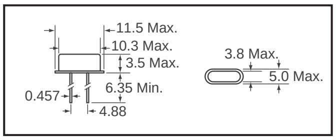

Specifications:
- **Frequency Stability:** ±50ppm, -20°C ~ 70°C
- **Frequency Tolerance:** ±20ppm
- **Operating Temperature:** -20°C ~ 70°C
- **Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	100	Abracon Part No.
3.579545	535-9053-ND	.49	.42	.39	.35	ABL-3.579545MHZ-B2
3.686400	535-9054-ND	.49	.42	.39	.35	ABL-3.6864MHZ-B2
4.000000	535-9057-ND	.49	.42	.39	.35	ABL-4.000MHZ-B2
4.096000	535-9058-ND	.49	.42	.39	.35	ABL-4.096MHZ-B2
4.915200	535-9059-ND	.49	.42	.39	.35	ABL-4.9152MHZ-B2
6.000000	535-9060-ND	.49	.42	.39	.35	ABL-6.000MHZ-B2
7.372800	535-9061-ND	.49	.42	.39	.35	ABL-7.3728MHZ-B2
8.000000	535-9062-ND	.49	.42	.39	.35	ABL-8.000MHZ-B2
8.192000	535-9063-ND	.49	.42	.39	.35	ABL-8.192MHZ-B2
9.830400	535-9064-ND	.49	.42	.39	.35	ABL-9.8304MHZ-B2
10.000000	535-9035-ND	.49	.42	.39	.35	ABL-10.000MHZ-B2
11.059200	535-9036-ND	.49	.42	.39	.35	ABL-11.0592MHZ-B2
12.000000	535-9037-ND	.49	.42	.39	.35	ABL-12.000MHZ-B2
12.288000	535-9038-ND	.49	.42	.39	.35	ABL-12.288MHZ-B2
14.318180	535-9039-ND	.49	.42	.39	.35	ABL-14.31818MHZ-B2
14.745600	535-9040-ND	.49	.42	.39	.35	ABL-14.7456MHZ-B2
16.000000	535-9041-ND	.49	.42	.39	.35	ABL-16.000MHZ-B2
16.128000	535-9042-ND	.49	.42	.39	.35	ABL-16.128MHZ-B2
16.384000	535-9043-ND	.49	.42	.39	.35	ABL-16.384MHZ-B2
18.432000	535-9044-ND	.49	.42	.39	.35	ABL-18.432MHZ-B2
19.660800	535-9045-ND	.49	.42	.39	.35	ABL-19.6608MHZ-B2
20.000000	535-9046-ND	.49	.42	.39	.35	ABL-20.000MHZ-B2
22.118400	535-9047-ND	.49	.42	.39	.35	ABL-22.1184MHZ-B2
24.000000	535-9048-ND	.49	.42	.39	.35	ABL-24.000MHZ-B2
24.576000	535-9049-ND	.49	.42	.39	.35	ABL-24.576MHZ-B2F
25.000000	535-9050-ND	.49	.42	.39	.35	ABL-25.000MHZ-B2F
27.000000	535-9051-ND	.49	.42	.39	.35	ABL-27.000MHZ-B2F
32.000000	535-9052-ND	.49	.42	.39	.35	ABL-32.000MHZ-B2
40.000000	535-9055-ND	.88	.75	.69	.63	ABL-40.000MHZ-B2
48.000000	535-9056-ND	1.75	1.50	1.38	1.25	ABL-48.000MHZ-B2

ABLS Series HC49US SMD Crystals

Specifications:
- **Frequency Stability:** ±50ppm, -20°C ~ 70°C
- **Frequency Tolerance:** ±20ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Load Capacitance:** 18.0pF

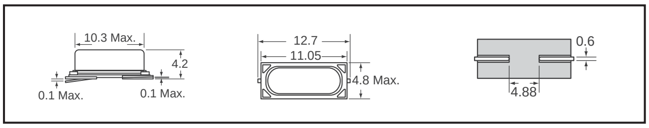

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
3.579545	535-9081-1-ND	.56	.49	.43	.30	535-9081-2-ND	263.00	ABLS-3.579545MHZ-B2-T
3.686400	535-9082-1-ND	.56	.49	.43	.30	535-9082-2-ND	263.00	ABLS-3.6864MHZ-B2-T
4.000000	535-9085-1-ND	.56	.49	.43	.30	535-9085-2-ND	263.00	ABLS-4.000MHZ-B2-T
4.915200	535-9086-1-ND	.56	.49	.43	.30	535-9086-2-ND	263.00	ABLS-4.9152MHZ-B2-T
5.000000	535-9087-1-ND	.56	.49	.43	.30	535-9087-2-ND	263.00	ABLS-5.000MHZ-B2-T
7.372800	535-9088-1-ND	.56	.49	.43	.30	535-9088-2-ND	263.00	ABLS-7.3728MHZ-B2-T
8.000000	535-9089-1-ND	.56	.49	.43	.30	535-9089-2-ND	263.00	ABLS-8.000MHZ-B2-T
8.192000	535-9090-1-ND	.56	.49	.43	.30	535-9090-2-ND	263.00	ABLS-8.192MHZ-B2-T
10.000000	535-9065-1-ND	.56	.49	.43	.30	535-9065-2-ND	263.00	ABLS-10.000MHZ-B2-T
11.059200	535-9066-1-ND	.56	.49	.43	.30	535-9066-2-ND	263.00	ABLS-11.0592MHZ-B2-T
12.000000	535-9067-1-ND	.56	.49	.43	.30	535-9067-2-ND	263.00	ABLS-12.000MHZ-B2-T
12.288000	535-9068-1-ND	.56	.49	.43	.30	535-9068-2-ND	263.00	ABLS-12.288MHZ-B2-T
14.318180	535-9069-1-ND	.56	.49	.43	.30	535-9069-2-ND	263.00	ABLS-14.31818MHZ-B2-T
14.745600	535-9070-1-ND	.56	.49	.43	.30	535-9070-2-ND	263.00	ABLS-14.7456MHZ-B2-T
16.000000	535-9071-1-ND	.56	.49	.43	.30	535-9071-2-ND	263.00	ABLS-16.000MHZ-B2-T
18.432000	535-9072-1-ND	.56	.49	.43	.30	535-9072-2-ND	263.00	ABLS-18.432MHZ-B2-T
19.660800	535-9073-1-ND	.56	.49	.43	.30	535-9073-2-ND	263.00	ABLS-19.6608MHZ-B2-T
20.000000	535-9074-1-ND	.56	.49	.43	.30	535-9074-2-ND	263.00	ABLS-20.000MHZ-B2-T
22.118400	535-9075-1-ND	.56	.49	.43	.30	535-9075-2-ND	263.00	ABLS-22.1184MHZ-B2-T
24.000000	535-9076-1-ND	.56	.49	.43	.30	535-9076-2-ND	263.00	ABLS-24.000MHZ-B2-T
24.576000	535-9077-1-ND	.56	.49	.43	.30	535-9077-2-ND	263.00	ABLS-24.576MHZ-B2F-T
25.000000	535-9078-1-ND	.56	.49	.43	.30	535-9078-2-ND	263.00	ABLS-25.000MHZ-B2F-T
27.000000	535-9079-1-ND	.56	.49	.43	.30	535-9079-2-ND	263.00	ABLS-27.000MHZ-B2F-T
32.000000	535-9080-1-ND	.56	.49	.43	.30	535-9080-2-ND	263.00	ABLS-32.000MHZ-B2-T
48.000000	535-9083-1-ND	.56	.49	.43	.30	535-9083-2-ND	263.00	ABLS-48.000MHZ-B2-T
49.152000	535-9084-1-ND	.56	.49	.43	.30	535-9084-2-ND	263.00	ABLS-49.152MHZ-B2-T

ABM3 Series 5.0 x 3.2 SMD Crystals

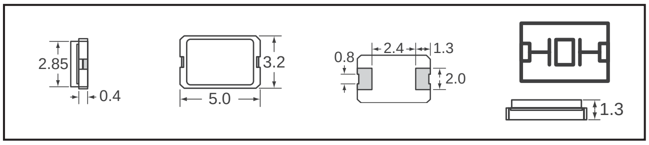

Specifications:
- **Frequency Stability:** ±100ppm, -20°C ~ 70°C
- **Frequency Tolerance:** ±20ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	T & R Pricing 1,000	Abracon Part No.
12.00000	535-9100-1-ND	1.38	1.13	1.00	.89	535-9100-2-ND	700.00	ABM3-12.000MHZ-B2-T
13.56000	535-9101-1-ND	1.38	1.13	1.00	.89	535-9101-2-ND	700.00	ABM3-13.560MHZ-B2-T
14.31818	535-9102-1-ND	1.38	1.13	1.00	.89	535-9102-2-ND	700.00	ABM3-14.31818MHZ-B2-T
16.00000	535-9103-1-ND	1.38	1.13	1.00	.89	535-9103-2-ND	700.00	ABM3-16.000MHZ-B2-T
18.43200	535-9104-1-ND	1.38	1.13	1.00	.89	535-9104-2-ND	700.00	ABM3-18.432MHZ-B2-T
20.00000	535-9105-1-ND	1.38	1.13	1.00	.89	535-9105-2-ND	700.00	ABM3-20.000MHZ-B2-T
24.00000	535-9106-1-ND	1.38	1.13	1.00	.89	535-9106-2-ND	700.00	ABM3-24.000MHZ-B2-T
24.57600	535-9107-1-ND	1.38	1.13	1.00	.89	535-9107-2-ND	700.00	ABM3-24.576MHZ-B2-T
25.00000	535-9108-1-ND	1.38	1.13	1.00	.89	535-9108-2-ND	700.00	ABM3-25.000MHZ-B2-T
27.00000	535-9109-1-ND	1.38	1.13	1.00	.89	535-9109-2-ND	700.00	ABM3-27.000MHZ-B2-T
28.63630	535-9110-1-ND	1.38	1.13	1.00	.89	535-9110-2-ND	700.00	ABM3-28.6363MHZ-B2-T
29.49120	535-9111-1-ND	1.38	1.13	1.00	.89	535-9111-2-ND	700.00	ABM3-29.4912MHZ-B2-T
30.00000	535-9112-1-ND	1.38	1.13	1.00	.89	535-9112-2-ND	700.00	ABM3-30.000MHZ-B2-T
33.00000	535-9113-1-ND	1.38	1.13	1.00	.89	535-9113-2-ND	700.00	ABM3-33.000MHZ-B2-T
40.00000	535-9114-1-ND	1.38	1.13	1.00	.89	535-9114-2-ND	700.00	ABM3-40.000MHZ-B2-T
48.00000	535-9115-1-ND	1.38	1.13	1.00	.89	535-9115-2-ND	700.00	ABM3-48.000MHZ-B2-T

(Continued)

ABM3B Series 5.0 x 3.2 SMD Crystals

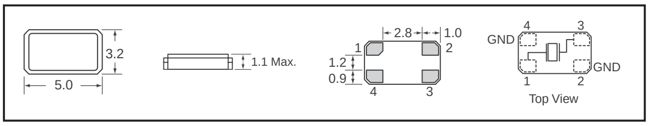

Specifications:
• **Frequency Stability:** ±10ppm, -10°C ~ 60°C • **Frequency Tolerance:** ±10ppm @ 25°C • **Operating Temperature:** -20°C ~ 70°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing	Abracon Part No.
		1	10	50	100		1,000	
10.00000	300-8195-1-ND	1.93	1.58	1.40	1.24	300-8195-2-ND	980.00	ABM3B-10.000MHZ-10-1-U-T
11.05920	300-8196-1-ND	1.93	1.58	1.40	1.24	300-8196-2-ND	980.00	ABM3B-11.0592MHZ-10-1-U-T
12.00000	300-8197-1-ND	1.93	1.58	1.40	1.24	300-8197-2-ND	980.00	ABM3B-12.000MHZ-10-1-U-T
12.28800	300-8198-1-ND	1.93	1.58	1.40	1.24	300-8198-2-ND	980.00	ABM3B-12.288MHZ-10-1-U-T
12.80000	300-8199-1-ND	1.93	1.58	1.40	1.24	300-8199-2-ND	980.00	ABM3B-12.800MHZ-10-1-U-T
13.00000	300-8200-1-ND	1.93	1.58	1.40	1.24	300-8200-2-ND	980.00	ABM3B-13.000MHZ-10-1-U-T
13.50000	300-8201-1-ND	1.93	1.58	1.40	1.24	300-8201-2-ND	980.00	ABM3B-13.500MHZ-10-1-U-T
13.56000	300-8202-1-ND	1.93	1.58	1.40	1.24	300-8202-2-ND	980.00	ABM3B-13.560MHZ-10-1-U-T
14.40000	300-8203-1-ND	1.93	1.58	1.40	1.24	300-8203-2-ND	980.00	ABM3B-14.400MHZ-10-1-U-T
14.74560	300-8204-1-ND	1.93	1.58	1.40	1.24	300-8204-2-ND	980.00	ABM3B-14.7456MHZ-10-1-U-T
15.36000	300-8205-1-ND	1.93	1.58	1.40	1.24	300-8205-2-ND	980.00	ABM3B-15.360MHZ-10-1-U-T
16.00000	300-8206-1-ND	1.93	1.58	1.40	1.24	300-8206-2-ND	980.00	ABM3B-16.000MHZ-10-1-U-T
16.38400	300-8207-1-ND	1.93	1.58	1.40	1.24	300-8207-2-ND	980.00	ABM3B-16.384MHZ-10-1-U-T
16.80000	300-8208-1-ND	1.93	1.58	1.40	1.24	300-8208-2-ND	980.00	ABM3B-16.800MHZ-10-1-U-T
18.43200	300-8209-1-ND	1.93	1.58	1.40	1.24	300-8209-2-ND	980.00	ABM3B-18.432MHZ-10-1-U-T
19.20000	300-8210-1-ND	1.93	1.58	1.40	1.24	300-8210-2-ND	980.00	ABM3B-19.200MHZ-10-1-U-T
19.44000	300-8211-1-ND	1.93	1.58	1.40	1.24	300-8211-2-ND	980.00	ABM3B-19.440MHZ-10-1-U-T
19.68000	300-8212-1-ND	1.93	1.58	1.40	1.24	300-8212-2-ND	980.00	ABM3B-19.680MHZ-10-1-U-T
19.80000	300-8213-1-ND	1.93	1.58	1.40	1.24	300-8213-2-ND	980.00	ABM3B-19.800MHZ-10-1-U-T
20.00000	300-8214-1-ND	1.93	1.58	1.40	1.24	300-8214-2-ND	980.00	ABM3B-20.000MHZ-10-1-U-T
22.00000	300-8215-1-ND	1.93	1.58	1.40	1.24	300-8215-2-ND	980.00	ABM3B-22.000MHZ-10-1-U-T
24.00000	300-8216-1-ND	1.93	1.58	1.40	1.24	300-8216-2-ND	980.00	ABM3B-24.000MHZ-10-1-U-T
24.57600	300-8217-1-ND	1.93	1.58	1.40	1.24	300-8217-2-ND	980.00	ABM3B-24.576MHZ-10-1-U-T
25.00000	300-8218-1-ND	1.93	1.58	1.40	1.24	300-8218-2-ND	980.00	ABM3B-25.000MHZ-10-1-U-T
26.00000	300-8219-1-ND	1.93	1.58	1.40	1.24	300-8219-2-ND	980.00	ABM3B-26.000MHZ-10-1-U-T
28.63636	300-8220-1-ND	1.93	1.58	1.40	1.24	300-8220-2-ND	980.00	ABM3B-28.63636MHZ-10-1-U-T
29.49120	300-8221-1-ND	1.93	1.58	1.40	1.24	300-8221-2-ND	980.00	ABM3B-29.4912MHZ-10-1-U-T
30.00000	300-8222-1-ND	1.93	1.58	1.40	1.24	300-8222-2-ND	980.00	ABM3B-30.000MHZ-10-1-U-T
40.00000	300-8223-1-ND	1.93	1.58	1.40	1.24	300-8223-2-ND	980.00	ABM3B-40.000MHZ-10-1-U-T
44.00000	300-8224-1-ND	1.93	1.58	1.40	1.24	300-8224-2-ND	980.00	ABM3B-44.000MHZ-10-1-U-T
48.00000	300-8225-1-ND	1.93	1.58	1.40	1.24	300-8225-2-ND	980.00	ABM3B-48.000MHZ-10-1-U-T

Specifications:
• **Frequency Stability:** ±50ppm, -20°C ~ 70°C • **Frequency Tolerance:** ±20ppm @ 25°C • **Operating Temperature:** -20°C ~ 70°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing	Abracon Part No.
		1	10	50	100		1,000	
12.00000	535-9116-1-ND	1.38	1.13	1.00	.89	535-9116-2-ND	700.00	ABM3B-12.000MHZ-B2-T
12.28800	535-9117-1-ND	1.38	1.13	1.00	.89	535-9117-2-ND	700.00	ABM3B-12.288MHZ-B2-T
13.00000	535-9118-1-ND	1.38	1.13	1.00	.89	535-9118-2-ND	700.00	ABM3B-13.000MHZ-B2-T
13.82400	535-9119-1-ND	1.38	1.13	1.00	.89	535-9119-2-ND	700.00	ABM3B-13.824MHZ-B2-T
14.31818	535-9120-1-ND	1.38	1.13	1.00	.89	535-9120-2-ND	700.00	ABM3B-14.31818MHZ-B2-T
15.36000	535-9121-1-ND	1.38	1.13	1.00	.89	535-9121-2-ND	700.00	ABM3B-15.360MHZ-B2-T
16.00000	535-9122-1-ND	1.38	1.13	1.00	.89	535-9122-2-ND	700.00	ABM3B-16.000MHZ-B2-T
16.38400	535-9123-1-ND	1.38	1.13	1.00	.89	535-9123-2-ND	700.00	ABM3B-16.384MHZ-B2-T
18.43200	535-9124-1-ND	1.38	1.13	1.00	.89	535-9124-2-ND	700.00	ABM3B-18.432MHZ-B2-T
20.00000	535-9125-1-ND	1.38	1.13	1.00	.89	535-9125-2-ND	700.00	ABM3B-20.000MHZ-B2-T
24.00000	535-9126-1-ND	1.38	1.13	1.00	.89	535-9126-2-ND	700.00	ABM3B-24.000MHZ-B2-T
24.57600	535-9127-1-ND	1.38	1.13	1.00	.89	535-9127-2-ND	700.00	ABM3B-24.576MHZ-B2-T
25.00000	535-9128-1-ND	1.38	1.13	1.00	.89	535-9128-2-ND	700.00	ABM3B-25.000MHZ-B2-T
27.00000	535-9129-1-ND	1.38	1.13	1.00	.89	535-9129-2-ND	700.00	ABM3B-27.000MHZ-B2-T
30.00000	535-9130-1-ND	1.38	1.13	1.00	.89	535-9130-2-ND	700.00	ABM3B-30.000MHZ-B2-T
32.00000	535-9131-1-ND	1.38	1.13	1.00	.89	535-9131-2-ND	700.00	ABM3B-32.000MHZ-B2-T
40.00000	535-9132-1-ND	1.38	1.13	1.00	.89	535-9132-2-ND	700.00	ABM3B-40.000MHZ-B2-T
48.00000	535-9133-1-ND	1.38	1.13	1.00	.89	535-9133-2-ND	700.00	ABM3B-48.000MHZ-B2-T

ABM8 Series 3.2 x 2.5 SMD Crystals

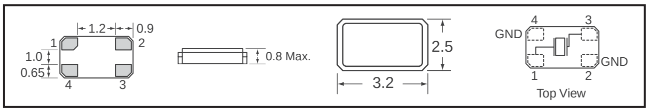

Specifications:
• **Frequency Stability:** ±50ppm, -20°C ~ 70°C • **Frequency Tolerance:** ±20ppm @ 25°C • **Operating Temperature:** -20°C ~ 70°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing	Abracon Part No.
		1	10	50	100		1,000	
16.000000	535-9134-1-ND	2.34	1.92	1.70	1.50	535-9134-2-ND	1190.00	ABM8-16.000MHZ-B2-T
18.432000	535-9135-1-ND	2.34	1.92	1.70	1.50	535-9135-2-ND	1190.00	ABM8-18.432MHZ-B2-T
20.000000	535-9136-1-ND	2.34	1.92	1.70	1.50	535-9136-2-ND	1190.00	ABM8-20.000MHZ-B2-T
22.118400	535-9137-1-ND	2.34	1.92	1.70	1.50	535-9137-2-ND	1190.00	ABM8-22.1184MHZ-B2-T
24.000000	535-9138-1-ND	2.34	1.92	1.70	1.50	535-9138-2-ND	1190.00	ABM8-24.000MHZ-B2-T
24.576000	535-9139-1-ND	2.34	1.92	1.70	1.50	535-9139-2-ND	1190.00	ABM8-24.576MHZ-B2-T
25.000000	535-9140-1-ND	2.34	1.92	1.70	1.50	535-9140-2-ND	1190.00	ABM8-25.000MHZ-B2-T
27.000000	535-9141-1-ND	2.34	1.92	1.70	1.50	535-9141-2-ND	1190.00	ABM8-27.000MHZ-B2-T
28.375000	535-9142-1-ND	2.34	1.92	1.70	1.50	535-9142-2-ND	1190.00	ABM8-28.375MHZ-B2-T
28.636360	535-9143-1-ND	2.34	1.92	1.70	1.50	535-9143-2-ND	1190.00	ABM8-28.63636MHZ-B2-T
29.491200	535-9144-1-ND	2.34	1.92	1.70	1.50	535-9144-2-ND	1190.00	ABM8-29.4912MHZ-B2-T
30.000000	535-9145-1-ND	2.34	1.92	1.70	1.50	535-9145-2-ND	1190.00	ABM8-30.000MHZ-B2-T
33.000000	535-9146-1-ND	2.34	1.92	1.70	1.50	535-9146-2-ND	1190.00	ABM8-33.000MHZ-B2-T
40.000000	535-9147-1-ND	2.34	1.92	1.70	1.50	535-9147-2-ND	1190.00	ABM8-40.000MHZ-B2-T
44.000000	535-9148-1-ND	2.34	1.92	1.70	1.50	535-9148-2-ND	1190.00	ABM8-44.000MHZ-B2-T
48.000000	535-9149-1-ND	2.34	1.92	1.70	1.50	535-9149-2-ND	1190.00	ABM8-48.000MHZ-B2-T

Specifications:
• **Frequency Tolerance:** ±10ppm @ 25°C • **Frequency Stability:** ±10ppm, -10°C ~ 60°C • **Operating Temperature:** -20°C ~ 70°C

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing	Abracon Part No.
		1	10	50	100		1,000	
16.367600	300-8226-1-ND	3.30	2.70	2.40	2.12	300-8226-2-ND	1680.00	ABM8-16.3676MHZ-10-1-U-T
16.800000	300-8227-1-ND	3.30	2.70	2.40	2.12	300-8227-2-ND	1680.00	ABM8-16.800MHZ-10-1-U-T
19.200000	300-8228-1-ND	3.30	2.70	2.40	2.12	300-8228-2-ND	1680.00	ABM8-19.200MHZ-10-1-U-T
24.553500	300-8229-1-ND	3.30	2.70	2.40	2.12	300-8229-2-ND	1680.00	ABM8-24.5535MHZ-10-1-U-T
26.000000	300-8230-1-ND	3.30	2.70	2.40	2.12	300-8230-2-ND	1680.00	ABM8-26.000MHZ-10-1-U-T

ABMM Series 5.0 x 7.0 SMD Crystals

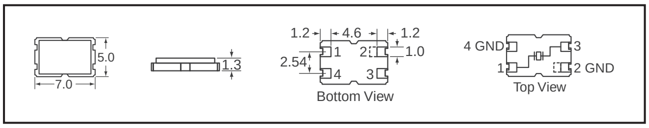

Specifications:
• **Frequency Stability:** ±50ppm, -20°C ~ 70°C • **Frequency Tolerance:** ±20ppm • **Operating Temperature:** -40°C ~ 85°C • **Load Capacitance:** 18.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing	Abracon Part No.
		1	10	50	100		1,000	
8.00000	535-9164-1-ND	1.03	.85	.75	.67	535-9164-2-ND	525.00	ABMM-8.000MHZ-B2-T
10.00000	535-9150-1-ND	1.03	.85	.75	.67	535-9150-2-ND	525.00	ABMM-10.000MHZ-B2-T
11.05920	535-9151-1-ND	1.03	.85	.75	.67	535-9151-2-ND	525.00	ABMM-11.0592MHZ-B2-T
12.00000	535-9152-1-ND	1.03	.85	.75	.67	535-9152-2-ND	525.00	ABMM-12.000MHZ-B2-T
14.31818	535-9153-1-ND	1.03	.85	.75	.67	535-9153-2-ND	525.00	ABMM-14.31818MHZ-B2-T
14.74560	535-9154-1-ND	1.03	.85	.75	.67	535-9154-2-ND	525.00	ABMM-14.7456MHZ-B2-T
16.00000	535-9155-1-ND	1.03	.85	.75	.67	535-9155-2-ND	525.00	ABMM-16.000MHZ-B2-T
16.93440	535-9156-1-ND	1.03	.85	.75	.67	535-9156-2-ND	525.00	ABMM-16.9344MHZ-B2-T
19.66080	535-9157-1-ND	1.03	.85	.75	.67	535-9157-2-ND	525.00	ABMM-19.6608MHZ-B2-T
20.00000	535-9158-1-ND	1.03	.85	.75	.67	535-9158-2-ND	525.00	ABMM-20.000MHZ-B2-T
24.00000	535-9159-1-ND	1.03	.85	.75	.67	535-9159-2-ND	525.00	ABMM-24.000MHZ-B2-T
24.57600	535-9160-1-ND	1.03	.85	.75	.67	535-9160-2-ND	525.00	ABMM-24.576MHZ-B2-T
25.00000	535-9161-1-ND	1.03	.85	.75	.67	535-9161-2-ND	525.00	ABMM-25.000MHZ-B2-T
27.00000	535-9162-1-ND	1.03	.85	.75	.67	535-9162-2-ND	525.00	ABMM-27.000MHZ-B2-T
32.00000	535-9163-1-ND	1.03	.85	.75	.67	535-9163-2-ND	525.00	ABMM-32.000MHZ-2BF-T

ABM10 Series 2.5 x 2.0 SMD Crystals

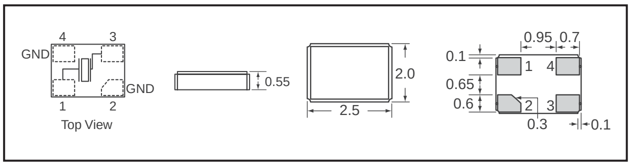

Specifications:
• **Frequency Stability:** ±20ppm -20°C ~ 70°C • **Frequency Tolerance:** ±20ppm • **Operating Temperature:** -40°C ~ 85°C • **Operating Mode:** Fundamental • **Load Capacitance:** 10.0pF

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing	Abracon Part No.
		1	10	50	100		1,000	
20.0000	535-9091-1-ND	6.88	5.63	5.00	4.41	535-9091-2-ND	3500.00	ABM10-20.000MHZ-E20-T
22.1184	535-9092-1-ND	6.88	5.63	5.00	4.41	535-9092-2-ND	3500.00	ABM10-22.1184MHZ-E20-T
24.0000	535-9093-1-ND	6.88	5.63	5.00	4.41	535-9093-2-ND	3500.00	ABM10-24.000MHZ-E20-T
24.5760	535-9094-1-ND	6.88	5.63	5.00	4.41	535-9094-2-ND	3500.00	ABM10-24.576MHZ-E20-T
25.0000	535-9095-1-ND	6.88	5.63	5.00	4.41	535-9095-2-ND	3500.00	ABM10-25.000MHZ-E20-T
27.0000	535-9096-1-ND	6.88	5.63	5.00	4.41	535-9096-2-ND	3500.00	ABM10-27.000MHZ-E20-T
30.0000	535-9097-1-ND	6.88	5.63	5.00	4.41	535-9097-2-ND	3500.00	ABM10-30.000MHZ-E20-T
40.0000	535-9098-1-ND	6.88	5.63	5.00	4.41	535-9098-2-ND	3500.00	ABM10-40.000MHZ-E20-T
48.0000	535-9099-1-ND	6.88	5.63	5.00	4.41	535-9099-2-ND	3500.00	ABM10-48.000MHZ-E20-T

(Continued)

32.768kHz Tuning Fork Crystals

Fig. 1

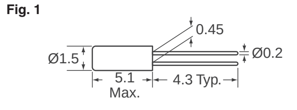

Fig. 2

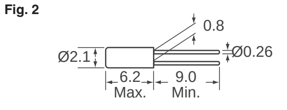

Fig. 3

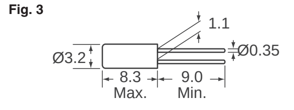

Fig. 4

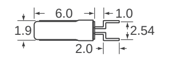

Fig.	Frequency (kHz)	Frequency Tolerance	Operating Temperature	Digi-Key Part No.	Price Each 1	10	50	100	Abracon Part No.
				AB-T Through Hole					
1	32.768	±20ppm	-10°C ~ 60°C	535-9031-ND	.88	.75	.69	.63	AB15T-32.768KHZ
2	32.768	±20ppm	-10°C ~ 60°C	535-9032-ND	.35	.30	.28	.25	AB26T-32.768KHZ
3	32.768	±20ppm	-10°C ~ 60°C	535-9034-ND	.35	.30	.28	.25	AB38T-32.768KHZ

Fig. 5

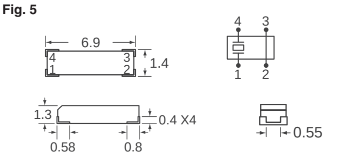

Fig. 6

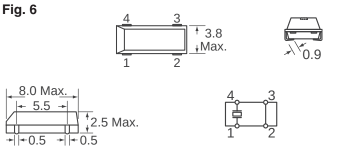

Fig.	Frequency (kHz)	Frequency Tolerance	Operating Temperature	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Abracon Part No.
				AB26TRB Surface Mount								
4	32.768	±20ppm	-40°C ~ 85°C	535-9033-1-ND	.81	.69	.52	.46	535-9033-2-ND	2,000	322.00/M	AB26TRB-32.768KHZ-T
				ABS13 Surface Mount								
5	32.768	±20ppm	-40°C ~ 85°C	535-9165-1-ND	1.93	1.65	1.24	1.10	535-9165-2-ND	3,000	770.00/M	ABS13-32.768KHZ-T
				ABS25 Surface Mount								
6	32.768	±20ppm	-40°C ~ 85°C	535-9166-1-ND	1.05	.90	.68	.60	535-9166-2-ND	3,000	420.00/M	ABS25-32.768KHZ-T

Resonators

AWCR Series Leaded Ceramic Resonator with Built-In Cap

Features: • High stability • Washable

Specifications: • **Frequency Tolerance:** ±0.5% • **Operating Temperature:** -40°C ~ 85°C

Pin	Function
1	Input
2	Ground
3	Output

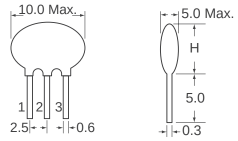

Freq. (MHz)	H (Max.)
2.00 ~ 6.0	.315 (8.0)
6.01 ~ 20.00	.395 (10)

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	Abracon Part No.
2.00	535-9357-ND	.34	.29	.23	.19	AWCR-2.00MD
3.58	535-9358-ND	.34	.29	.23	.19	AWCR-3.58MD
4.00	535-9359-ND	.34	.29	.23	.19	AWCR-4.00MD
6.00	535-9360-ND	.34	.29	.23	.19	AWCR-6.00MD
8.00	535-9361-ND	.34	.29	.23	.19	AWCR-8.00MD
10.00	535-9353-ND	.34	.29	.23	.19	AWCR-10.00MD
12.00	535-9354-ND	.34	.29	.23	.19	AWCR-12.00MD
16.00	535-9355-ND	.34	.29	.23	.19	AWCR-16.00MD
20.00	535-9356-ND	.34	.29	.23	.19	AWCR-20.00MD

AWSCR Series SMD Ceramic Resonator with Built-In Cap

Specifications: • **Frequency Tolerance:** ±0.5% • **Operating Temperature:** -40°C ~ 85°C

Features:
- Industrial grade

Pin	Function
1	Input
2	GND
3	Output

Fig. 1

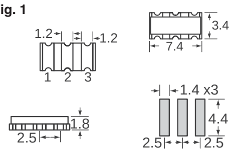

Fig. 2

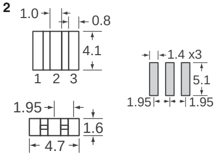

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1	3.58	535-9365-1-ND	.51	.44	.35	.29	535-9365-2-ND	203.00	AWSCR-3.58MGD-T
	4.00	535-9366-1-ND	.51	.44	.35	.29	535-9366-2-ND	203.00	AWSCR-4.00MGD-T
	6.00	535-9367-1-ND	.51	.44	.35	.29	535-9367-2-ND	203.00	AWSCR-6.00MGD-T
	8.00	535-9368-1-ND	.51	.44	.35	.29	535-9368-2-ND	203.00	AWSCR-8.00MGD-T
2	16.00	535-9362-1-ND	.51	.44	.35	.29	535-9362-2-ND	203.00	AWSCR-16.00MTD-T
	20.00	535-9363-1-ND	.51	.44	.35	.29	535-9363-2-ND	203.00	AWSCR-20.00MTD-T
	24.00	535-9364-1-ND	.51	.44	.35	.29	535-9364-2-ND	203.00	AWSCR-24.00MTD-T

HWZT Series Washable Leaded Ceramic Resonator

Features:
- Low resonant impedance • Reflow solderable
- High stability • Industrial grade • Excellent environmental resistance

Specifications:
- **Frequency Tolerance:** ±0.5%
- **Operating Temperature:** -40°C ~ 85°C

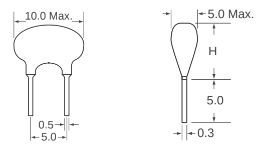

Freq. (MHz)	H (Max.)
2.00 ~ 13.0	.295 (7.5)
13.01 ~ 20.00	.395 (10)

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	Abracon Part No.
2.00	535-9381-ND	.32	.27	.22	.18	HWZT-2.00MD
3.58	535-9382-ND	.32	.27	.22	.18	HWZT-3.58MD
4.00	535-9383-ND	.32	.27	.22	.18	HWZT-4.00MD
6.00	535-9384-ND	.32	.27	.22	.18	HWZT-6.00MD
8.00	535-9385-ND	.32	.27	.22	.18	HWZT-8.00MD
10.00	535-9377-ND	.32	.27	.22	.18	HWZT-10.00MD
12.00	535-9378-ND	.32	.27	.22	.18	HWZT-12.00MD
16.00	535-9379-ND	.32	.27	.22	.18	HWZT-16.00MD
20.00	535-9380-ND	.32	.27	.22	.18	HWZT-20.00MD

AWSZT Series SMD Ceramic Resonator

Specifications: • **Frequency Tolerance:** ±0.5% • **Operating Temperature:** -40°C ~ 85°C

Features: • Washable • Industrial grade

Pin	Function
1	Input
2	GND

Fig. 1

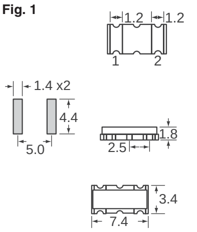

Fig. 2

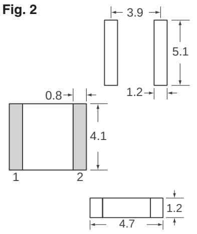

Fig. 3

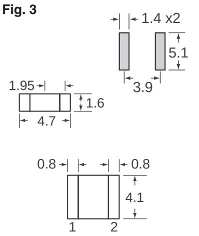

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1	3.58	535-9373-1-ND	.49	.42	.33	.28	535-9373-2-ND	196.00	AWSZT-3.58MGD-T
	4.00	535-9374-1-ND	.49	.42	.33	.28	535-9374-2-ND	196.00	AWSZT-4.00MGD-T
	6.00	535-9375-1-ND	.49	.42	.33	.28	535-9375-2-ND	196.00	AWSZT-6.00MGD-T
2	8.00	535-9376-1-ND	.49	.42	.33	.28	535-9376-2-ND	196.00	AWSZT-8.00MWD-T
	12.00	535-9369-1-ND	.49	.42	.33	.28	535-9369-2-ND	196.00	AWSZT-12.00MWD-T
3	16.00	535-9370-1-ND	.49	.42	.33	.28	535-9370-2-ND	196.00	AWSZT-16.00MXD-T
	20.00	535-9371-1-ND	.49	.42	.33	.28	535-9371-2-ND	196.00	AWSZT-20.00MXD-T
	24.00	535-9372-1-ND	.49	.42	.33	.28	535-9372-2-ND	196.00	AWSZT-24.00MXD-T

ABRACON
CORPORATION
The Power of Linking Together

Oscillators

Half Size

Specifications: • Frequency Stability: ±30ppm, -20°C ~ 70°C • **Operating Temperature:** -20°C ~ 70°C
Features: • HCMOS and TTL compatible

Pin	Function
1	NC
4	GRND/Case
5	Output
8	Vdd

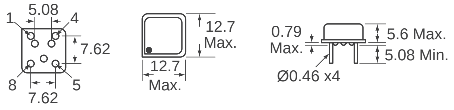

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	Abracon Part No.
ACH Series Half Size Oscillators — 5V						
3.68640	535-9179-5-ND	1.63	1.47	1.17	1.04	ACH-3.6864MHZ-EK
4.00000	535-9182-5-ND	1.63	1.47	1.17	1.04	ACH-4.000MHZ-EK
8.00000	535-9184-5-ND	1.63	1.47	1.17	1.04	ACH-8.000MHZ-EK
10.00000	535-9167-5-ND	1.63	1.47	1.17	1.04	ACH-10.000MHZ-EK
11.05920	535-9168-5-ND	1.63	1.47	1.17	1.04	ACH-11.0592MHZ-EK
12.00000	535-9169-5-ND	1.63	1.47	1.17	1.04	ACH-12.000MHZ-EK
14.31818	535-9170-5-ND	1.63	1.47	1.17	1.04	ACH-14.31818MHZ-EK
16.00000	535-9171-5-ND	1.63	1.47	1.17	1.04	ACH-16.000MHZ-EK
18.43200	535-9172-5-ND	1.63	1.47	1.17	1.04	ACH-18.432MHZ-EK
20.00000	535-9173-5-ND	1.63	1.47	1.17	1.04	ACH-20.000MHZ-EK
24.57600	535-9174-5-ND	1.63	1.47	1.17	1.04	ACH-24.576MHZ-EK
25.00000	535-9175-5-ND	1.63	1.47	1.17	1.04	ACH-25.000MHZ-EK
27.00000	535-9176-5-ND	1.63	1.47	1.17	1.04	ACH-27.000MHZ-EK
32.00000	535-9177-5-ND	1.63	1.47	1.17	1.04	ACH-32.000MHZ-EK
32.76800	535-9178-5-ND	1.63	1.47	1.17	1.04	ACH-32.768MHZ-EK
40.00000	535-9180-5-ND	1.63	1.47	1.17	1.04	ACH-40.000MHZ-EK
48.00000	535-9181-5-ND	1.63	1.47	1.17	1.04	ACH-48.000MHZ-EK
50.00000	535-9183-5-ND	1.63	1.47	1.17	1.04	ACH-50.000MHZ-EK
ACHL Series Half Size Oscillators — 3.3V						
3.68640	535-9197-5-ND	1.63	1.47	1.17	1.04	ACHL-3.6864MHZ-EK
4.00000	535-9200-5-ND	1.63	1.47	1.17	1.04	ACHL-4.000MHZ-EK
8.00000	535-9202-5-ND	1.63	1.47	1.17	1.04	ACHL-8.000MHZ-EK
10.00000	535-9185-5-ND	1.63	1.47	1.17	1.04	ACHL-10.000MHZ-EK
11.05920	535-9186-5-ND	1.63	1.47	1.17	1.04	ACHL-11.0592MHZ-EK
12.00000	535-9187-5-ND	1.63	1.47	1.17	1.04	ACHL-12.000MHZ-EK
14.31818	535-9188-5-ND	1.63	1.47	1.17	1.04	ACHL-14.31818MHZ-EK
16.00000	535-9189-5-ND	1.63	1.47	1.17	1.04	ACHL-16.000MHZ-EK
18.43200	535-9190-5-ND	1.63	1.47	1.17	1.04	ACHL-18.432MHZ-EK
20.00000	535-9191-5-ND	1.63	1.47	1.17	1.04	ACHL-20.000MHZ-EK
24.57600	535-9192-5-ND	1.63	1.47	1.17	1.04	ACHL-24.576MHZ-EK
25.00000	535-9193-5-ND	1.63	1.47	1.17	1.04	ACHL-25.000MHZ-EK
27.00000	535-9194-5-ND	1.63	1.47	1.17	1.04	ACHL-27.000MHZ-EK
32.00000	535-9195-5-ND	1.63	1.47	1.17	1.04	ACHL-32.000MHZ-EK
32.76800	535-9196-5-ND	1.63	1.47	1.17	1.04	ACHL-32.768MHZ-EK
40.00000	535-9198-5-ND	1.63	1.47	1.17	1.04	ACHL-40.000MHZ-EK
48.00000	535-9199-5-ND	1.63	1.47	1.17	1.04	ACHL-48.000MHZ-EK
50.00000	535-9201-5-ND	1.63	1.47	1.17	1.04	ACHL-50.000MHZ-EK

Full Size

Specifications: • Frequency Stability: ±30ppm, -20°C ~ 70°C • **Operating Temperature:** -20°C ~ 70°C
Features: • HCMOS and TTL compatible

Pin	Function
1	NC
7	GRND/Case
8	Output
14	Vdd

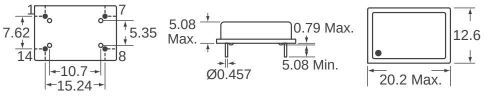

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	Abracon Part No.
ACO Series Full Size Oscillators — 5V						
3.68640	535-9215-5-ND	1.63	1.47	1.17	1.04	ACO-3.6864MHZ-EK
4.00000	535-9218-5-ND	1.63	1.47	1.17	1.04	ACO-4.000MHZ-EK
8.00000	535-9220-5-ND	1.63	1.47	1.17	1.04	ACO-8.000MHZ-EK
10.00000	535-9203-5-ND	1.63	1.47	1.17	1.04	ACO-10.000MHZ-EK
11.05920	535-9204-5-ND	1.63	1.47	1.17	1.04	ACO-11.0592MHZ-EK
12.00000	535-9205-5-ND	1.63	1.47	1.17	1.04	ACO-12.000MHZ-EK
14.31818	535-9206-5-ND	1.63	1.47	1.17	1.04	ACO-14.31818MHZ-EK
16.00000	535-9207-5-ND	1.63	1.47	1.17	1.04	ACO-16.000MHZ-EK
18.43200	535-9208-5-ND	1.63	1.47	1.17	1.04	ACO-18.432MHZ-EK
20.00000	535-9209-5-ND	1.63	1.47	1.17	1.04	ACO-20.000MHZ-EK
24.57600	535-9210-5-ND	1.63	1.47	1.17	1.04	ACO-24.576MHZ-EK
25.00000	535-9211-5-ND	1.63	1.47	1.17	1.04	ACO-25.000MHZ-EK
27.00000	535-9212-5-ND	1.63	1.47	1.17	1.04	ACO-27.000MHZ-EK
32.00000	535-9213-5-ND	1.63	1.47	1.17	1.04	ACO-32.000MHZ-EK
32.76800	535-9214-5-ND	1.63	1.47	1.17	1.04	ACO-32.768MHZ-EK
40.00000	535-9216-5-ND	1.63	1.47	1.17	1.04	ACO-40.000MHZ-EK
48.00000	535-9217-5-ND	1.63	1.47	1.17	1.04	ACO-48.000MHZ-EK
50.00000	535-9219-5-ND	1.63	1.47	1.17	1.04	ACO-50.000MHZ-EK
ACOL Series Full Size Oscillators — 3.3V						
3.68640	535-9233-5-ND	1.63	1.47	1.17	1.04	ACOL-3.6864MHZ-EK
4.00000	535-9236-5-ND	1.63	1.47	1.17	1.04	ACOL-4.000MHZ-EK
8.00000	535-9238-5-ND	1.63	1.47	1.17	1.04	ACOL-8.000MHZ-EK
10.00000	535-9221-5-ND	1.63	1.47	1.17	1.04	ACOL-10.000MHZ-EK
11.05920	535-9222-5-ND	1.63	1.47	1.17	1.04	ACOL-11.0592MHZ-EK
12.00000	535-9223-5-ND	1.63	1.47	1.17	1.04	ACOL-12.000MHZ-EK
14.31818	535-9224-5-ND	1.63	1.47	1.17	1.04	ACOL-14.31818MHZ-EK
16.00000	535-9225-5-ND	1.63	1.47	1.17	1.04	ACOL-16.000MHZ-EK
18.43200	535-9226-5-ND	1.63	1.47	1.17	1.04	ACOL-18.432MHZ-EK
20.00000	535-9227-5-ND	1.63	1.47	1.17	1.04	ACOL-20.000MHZ-EK
24.57600	535-9228-5-ND	1.63	1.47	1.17	1.04	ACOL-24.576MHZ-EK
25.00000	535-9229-5-ND	1.63	1.47	1.17	1.04	ACOL-25.000MHZ-EK
27.00000	535-9230-5-ND	1.63	1.47	1.17	1.04	ACOL-27.000MHZ-EK
32.00000	535-9231-5-ND	1.63	1.47	1.17	1.04	ACOL-32.000MHZ-EK
32.76800	535-9232-5-ND	1.63	1.47	1.17	1.04	ACOL-32.768MHZ-EK
40.00000	535-9234-5-ND	1.63	1.47	1.17	1.04	ACOL-40.000MHZ-EK
48.00000	535-9235-5-ND	1.63	1.47	1.17	1.04	ACOL-48.000MHZ-EK
50.00000	535-9237-5-ND	1.63	1.47	1.17	1.04	ACOL-50.000MHZ-EK

ASFL1 Series 5.0 x 3.2 SMD Oscillators

Specifications:
• Frequency Stability: ±30ppm, -20°C ~ 70°C • **Operating Temperature:** -20°C ~ 70°C • **Supply Voltage:** 3.3V ± 10%
Features: • Low current consumption • Glass sealed package

Pin	Function
1	Tri State E/D
2	GND/Case
3	Output
4	Vdd

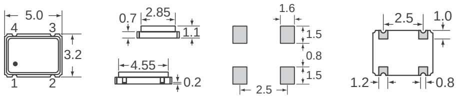

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1.84320	300-8237-1-ND	4.35	3.92	3.27	2.61	300-8237-2-ND	2030.00	ASFL1-1.8432MHZ-EC-T
1.84320	535-9258-1-ND	3.75	3.38	2.82	2.25	535-9258-2-ND	1875.00	ASFL1-1.8432MHZ-EK-T
3.68640	300-8238-1-ND	4.35	3.92	3.27	2.61	300-8238-2-ND	2030.00	ASFL1-3.6864MHZ-EC-T
3.68640	535-9268-1-ND	3.75	3.38	2.82	2.25	535-9268-2-ND	1875.00	ASFL1-3.6864MHZ-EK-T
4.00000	300-8239-1-ND	4.35	3.92	3.27	2.61	300-8239-2-ND	2030.00	ASFL1-4.000MHZ-EC-T
4.00000	535-9271-1-ND	3.75	3.38	2.82	2.25	535-9271-2-ND	1875.00	ASFL1-4.000MHZ-EK-T
7.37280	300-8240-1-ND	4.35	3.92	3.27	2.61	300-8240-2-ND	2030.00	ASFL1-7.3728MHZ-EC-T
7.37280	535-9273-1-ND	3.75	3.38	2.82	2.25	535-9273-2-ND	1875.00	ASFL1-7.3728MHZ-EK-T
8.00000	300-8241-1-ND	4.35	3.92	3.27	2.61	300-8241-2-ND	2030.00	ASFL1-8.000MHZ-EC-T
8.00000	535-9274-1-ND	3.75	3.38	2.82	2.25	535-9274-2-ND	1875.00	ASFL1-8.000MHZ-EK-T
10.00000	300-8242-1-ND	4.35	3.92	3.27	2.61	300-8242-2-ND	2030.00	ASFL1-10.000MHZ-EC-T
10.00000	535-9251-1-ND	3.75	3.38	2.82	2.25	535-9251-2-ND	1875.00	ASFL1-10.000MHZ-EK-T
11.05920	300-8243-1-ND	4.35	3.92	3.27	2.61	300-8243-2-ND	2030.00	ASFL1-11.0592MHZ-EC-T
11.05920	535-9252-1-ND	3.75	3.38	2.82	2.25	535-9252-2-ND	1875.00	ASFL1-11.0592MHZ-EK-T
12.00000	300-8244-1-ND	4.35	3.92	3.27	2.61	300-8244-2-ND	2030.00	ASFL1-12.000MHZ-EC-T
12.00000	535-9253-1-ND	3.75	3.38	2.82	2.25	535-9253-2-ND	1875.00	ASFL1-12.000MHZ-EK-T
12.28800	300-8245-1-ND	4.35	3.92	3.27	2.61	300-8245-2-ND	2030.00	ASFL1-12.288MHZ-EC-T
14.31818	300-8246-1-ND	4.35	3.92	3.27	2.61	300-8246-2-ND	2030.00	ASFL1-14.31818MHZ-EC-T
14.31818	535-9254-1-ND	3.75	3.38	2.82	2.25	535-9254-2-ND	1875.00	ASFL1-14.31818MHZ-EK-T
14.74560	300-8247-1-ND	4.35	3.92	3.27	2.61	300-8247-2-ND	2030.00	ASFL1-14.7456MHZ-EC-T
14.74560	535-9255-1-ND	3.75	3.38	2.82	2.25	535-9255-2-ND	1875.00	ASFL1-14.7456MHZ-EK-T
16.00000	300-8248-1-ND	4.35	3.92	3.27	2.61	300-8248-2-ND	2030.00	ASFL1-16.000MHZ-EC-T
16.00000	535-9256-1-ND	3.75	3.38	2.82	2.25	535-9256-2-ND	1875.00	ASFL1-16.000MHZ-EK-T
16.38400	300-8249-1-ND	4.35	3.92	3.27	2.61	300-8249-2-ND	2030.00	ASFL1-16.384MHZ-EC-T
18.43200	300-8250-1-ND	4.35	3.92	3.27	2.61	300-8250-2-ND	2030.00	ASFL1-18.432MHZ-EC-T
18.43200	535-9257-1-ND	3.75	3.38	2.82	2.25	535-9257-2-ND	1875.00	ASFL1-18.432MHZ-EK-T
20.00000	300-8251-1-ND	4.35	3.92	3.27	2.61	300-8251-2-ND	2030.00	ASFL1-20.000MHZ-EC-T
20.00000	535-9259-1-ND	3.75	3.38	2.82	2.25	535-9259-2-ND	1875.00	ASFL1-20.000MHZ-EK-T
24.00000	300-8252-1-ND	4.35	3.92	3.27	2.61	300-8252-2-ND	2030.00	ASFL1-24.000MHZ-EC-T
24.00000	535-9260-1-ND	3.75	3.38	2.82	2.25	535-9260-2-ND	1875.00	ASFL1-24.000MHZ-EK-T
24.57600	300-8253-1-ND	4.35	3.92	3.27	2.61	300-8253-2-ND	2030.00	ASFL1-24.576MHZ-EC-T
24.57600	535-9261-1-ND	3.75	3.38	2.82	2.25	535-9261-2-ND	1875.00	ASFL1-24.576MHZ-EK-T
25.00000	300-8254-1-ND	4.35	3.92	3.27	2.61	300-8254-2-ND	2030.00	ASFL1-25.000MHZ-EC-T
25.00000	535-9262-1-ND	3.75	3.38	2.82	2.25	535-9262-2-ND	1875.00	ASFL1-25.000MHZ-EK-T
27.00000	300-8255-1-ND	4.35	3.92	3.27	2.61	300-8255-2-ND	2030.00	ASFL1-27.000MHZ-EC-T
27.00000	535-9263-1-ND	3.75	3.38	2.82	2.25	535-9263-2-ND	1875.00	ASFL1-27.000MHZ-EK-T
29.49120	300-8256-1-ND	4.35	3.92	3.27	2.61	300-8256-2-ND	2030.00	ASFL1-29.4912MHZ-EC-T
30.00000	300-8257-1-ND	4.35	3.92	3.27	2.61	300-8257-2-ND	2030.00	ASFL1-30.000MHZ-EC-T
30.00000	535-9264-1-ND	3.75	3.38	2.82	2.25	535-9264-2-ND	1875.00	ASFL1-30.000MHZ-EK-T
32.00000	300-8258-1-ND	4.35	3.92	3.27	2.61	300-8258-2-ND	2030.00	ASFL1-32.000MHZ-EC-T
32.00000	535-9265-1-ND	3.75	3.38	2.82	2.25	535-9265-2-ND	1875.00	ASFL1-32.000MHZ-EK-T
32.76800	300-8259-1-ND	4.35	3.92	3.27	2.61	300-8259-2-ND	2030.00	ASFL1-32.768MHZ-EC-T
33.00000	535-9266-1-ND	3.75	3.38	2.82	2.25	535-9266-2-ND	1875.00	ASFL1-33.000MHZ-EK-T
33.33300	300-8260-1-ND	4.35	3.92	3.27	2.61	300-8260-2-ND	2030.00	ASFL1-33.333MHZ-EC-T
33.33300	535-9267-1-ND	3.75	3.38	2.82	2.25	535-9267-2-ND	1875.00	ASFL1-33.333MHZ-EK-T
35.32800	300-8261-1-ND	4.35	3.92	3.27	2.61	300-8261-2-ND	2030.00	ASFL1-35.328MHZ-EC-T
40.00000	300-8262-1-ND	4.35	3.92	3.27	2.61	300-8262-2-ND	2030.00	ASFL1-40.000MHZ-EC-T
40.00000	535-9269-1-ND	3.75	3.38	2.82	2.25	535-9269-2-ND	1875.00	ASFL1-40.000MHZ-EK-T
48.00000	300-8263-1-ND	4.35	3.92	3.27	2.61	300-8263-2-ND	2030.00	ASFL1-48.000MHZ-EC-T
48.00000	535-9270-1-ND	3.75	3.38	2.82	2.25	535-9270-2-ND	1875.00	ASFL1-48.000MHZ-EK-T

(Continued)

ASFL1 Series 5.0 x 3.2 SMD Oscillators (Cont.)

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
50.00000	300-8264-1-ND	4.35	3.92	3.27	2.61	300-8264-2-ND	2030.00	ASFL1-50.000MHZ-EC-T
50.00000	535-9272-1-ND	3.75	3.38	2.82	2.25	535-9272-2-ND	1875.00	ASFL1-50.000MHZ-EK-T
60.00000	300-8265-1-ND	4.35	3.92	3.27	2.61	300-8265-2-ND	2030.00	ASFL1-60.000MHZ-EC-T
64.00000	300-8266-1-ND	4.35	3.92	3.27	2.61	300-8266-2-ND	2030.00	ASFL1-64.000MHZ-EC-T
66.66600	300-8267-1-ND	4.35	3.92	3.27	2.61	300-8267-2-ND	2030.00	ASFL1-66.666MHZ-EC-T
75.00000	300-8268-1-ND	4.95	4.46	3.72	2.97	300-8268-2-ND	2310.00	ASFL1-75.000MHZ-EC-T
80.00000	300-8269-1-ND	4.95	4.46	3.72	2.97	300-8269-2-ND	2310.00	ASFL1-80.000MHZ-EC-T
100.00000	300-8270-1-ND	4.95	4.46	3.72	2.97	300-8270-2-ND	2310.00	ASFL1-100.000MHZ-EC-T
106.25000	300-8271-1-ND	4.95	4.46	3.72	2.97	300-8271-2-ND	2310.00	ASFL1-106.250MHZ-EC-T
125.00000	300-8272-1-ND	4.95	4.46	3.72	2.97	300-8272-2-ND	2310.00	ASFL1-125.000MHZ-EC-T
133.33000	300-8273-1-ND	4.95	4.46	3.72	2.97	300-8273-2-ND	2310.00	ASFL1-133.330MHZ-EC-T

ASFL3 Series SMD Oscillators

Pin	Function
1	Tri State
2	GND/Case
3	Output
4	Vdd

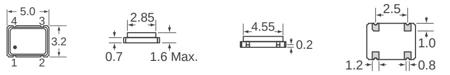

Specifications: • **Frequency Tolerance:** ±30ppm • **Operating Temperature:** -20°C ~ 70°C • **Load Capacitance:** 15.0pF • **Supply Voltage:** 1.8V ± 5% **Features:** • Low current consumption • Tri-State output

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1.84320	535-9407-1-ND	4.88	4.55	3.90	2.93	535-9407-2-ND	1820.00	ASFL3-1.8432MHZ-EK-T
3.68640	535-9408-1-ND	4.88	4.55	3.90	2.93	535-9408-2-ND	1820.00	ASFL3-3.6864MHZ-EK-T
4.00000	535-9409-1-ND	4.88	4.55	3.90	2.93	535-9409-2-ND	1820.00	ASFL3-4.000MHZ-EK-T
8.00000	535-9410-1-ND	4.88	4.55	3.90	2.93	535-9410-2-ND	1820.00	ASFL3-8.000MHZ-EK-T
10.00000	535-9411-1-ND	4.88	4.55	3.90	2.93	535-9411-2-ND	1820.00	ASFL3-10.000MHZ-EK-T
11.05920	535-9412-1-ND	4.88	4.55	3.90	2.93	535-9412-2-ND	1820.00	ASFL3-11.0592MHZ-EK-T
12.00000	535-9413-1-ND	4.88	4.55	3.90	2.93	535-9413-2-ND	1820.00	ASFL3-12.000MHZ-EK-T
14.31818	535-9414-1-ND	4.88	4.55	3.90	2.93	535-9414-2-ND	1820.00	ASFL3-14.31818MHZ-EK-T
16.00000	535-9415-1-ND	4.88	4.55	3.90	2.93	535-9415-2-ND	1820.00	ASFL3-16.000MHZ-EK-T
20.00000	535-9416-1-ND	4.88	4.55	3.90	2.93	535-9416-2-ND	1820.00	ASFL3-20.000MHZ-EK-T
24.00000	535-9417-1-ND	4.88	4.55	3.90	2.93	535-9417-2-ND	1820.00	ASFL3-24.000MHZ-EK-T
24.57600	535-9418-1-ND	4.88	4.55	3.90	2.93	535-9418-2-ND	1820.00	ASFL3-24.576MHZ-EK-T
25.00000	535-9419-1-ND	4.88	4.55	3.90	2.93	535-9419-2-ND	1820.00	ASFL3-25.000MHZ-EK-T
27.00000	535-9420-1-ND	4.88	4.55	3.90	2.93	535-9420-2-ND	1820.00	ASFL3-27.000MHZ-EK-T
30.00000	535-9421-1-ND	4.88	4.55	3.90	2.93	535-9421-2-ND	1820.00	ASFL3-30.000MHZ-EK-T
32.00000	535-9422-1-ND	4.88	4.55	3.90	2.93	535-9422-2-ND	1820.00	ASFL3-32.000MHZ-EK-T
32.76800	535-9423-1-ND	4.88	4.55	3.90	2.93	535-9423-2-ND	1820.00	ASFL3-32.768MHZ-EK-T
40.00000	535-9424-1-ND	4.88	4.55	3.90	2.93	535-9424-2-ND	1820.00	ASFL3-40.000MHZ-EK-T
48.00000	535-9425-1-ND	4.88	4.55	3.90	2.93	535-9425-2-ND	1820.00	ASFL3-48.000MHZ-EK-T

ASML Series SMD Oscillators

Specifications: • **Frequency Tolerance:** ±100ppm • **Operating Temperature:** -20°C ~ 70°C • **Supply Voltage:** 3.3V ± 10%
Features: • Low current consumption • HCMOS • Tri-State output

Pin	Function
1	Tri State Enable
2	GND/Case
3	Output
4	Vdd

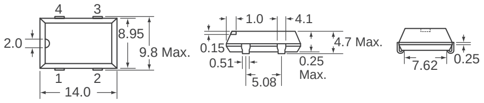

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1.84320	535-9386-1-ND	3.30	3.08	2.64	1.98	535-9386-2-ND	1232.00	ASML-1.8432MHZ-T
3.68640	535-9387-1-ND	3.30	3.08	2.64	1.98	535-9387-2-ND	1232.00	ASML-3.6864MHZ-T
4.00000	535-9388-1-ND	3.30	3.08	2.64	1.98	535-9388-2-ND	1232.00	ASML-4.000MHZ-T
8.00000	535-9389-1-ND	3.30	3.08	2.64	1.98	535-9389-2-ND	1232.00	ASML-8.000MHZ-T
10.00000	535-9390-1-ND	3.30	3.08	2.64	1.98	535-9390-2-ND	1232.00	ASML-10.000MHZ-T
11.05920	535-9391-1-ND	3.30	3.08	2.64	1.98	535-9391-2-ND	1232.00	ASML-11.0592MHZ-T
12.00000	535-9392-1-ND	3.30	3.08	2.64	1.98	535-9392-2-ND	1232.00	ASML-12.000MHZ-T
14.31818	535-9393-1-ND	3.30	3.08	2.64	1.98	535-9393-2-ND	1232.00	ASML-14.31818MHZ-T
16.00000	535-9394-1-ND	3.30	3.08	2.64	1.98	535-9394-2-ND	1232.00	ASML-16.000MHZ-T
20.00000	535-9395-1-ND	3.30	3.08	2.64	1.98	535-9395-2-ND	1232.00	ASML-20.000MHZ-T
24.00000	535-9396-1-ND	3.30	3.08	2.64	1.98	535-9396-2-ND	1232.00	ASML-24.000MHZ-T
24.57600	535-9397-1-ND	3.30	3.08	2.64	1.98	535-9397-2-ND	1232.00	ASML-24.576MHZ-T
25.00000	535-9398-1-ND	3.30	3.08	2.64	1.98	535-9398-2-ND	1232.00	ASML-25.000MHZ-T
27.00000	535-9399-1-ND	3.30	3.08	2.64	1.98	535-9399-2-ND	1232.00	ASML-27.000MHZ-T
32.00000	535-9400-1-ND	3.30	3.08	2.64	1.98	535-9400-2-ND	1232.00	ASML-32.000MHZ-T
32.76800	535-9401-1-ND	3.30	3.08	2.64	1.98	535-9401-2-ND	1232.00	ASML-32.768MHZ-T
33.00000	535-9402-1-ND	3.30	3.08	2.64	1.98	535-9402-2-ND	1232.00	ASML-33.000MHZ-T
33.33300	535-9403-1-ND	3.30	3.08	2.64	1.98	535-9403-2-ND	1232.00	ASML-33.333MHZ-T
40.00000	535-9404-1-ND	3.30	3.08	2.64	1.98	535-9404-2-ND	1232.00	ASML-40.000MHZ-T
48.00000	535-9405-1-ND	3.30	3.08	2.64	1.98	535-9405-2-ND	1232.00	ASML-48.000MHZ-T
50.00000	535-9406-1-ND	3.30	3.08	2.64	1.98	535-9406-2-ND	1232.00	ASML-50.000MHZ-T

ASVV Series VCXO SMD Oscillators

Specifications:

- **Frequency Stability:** ±50ppm, 0°C ~ 70°C
- **Operating Temperature:** -40°C ~ 85°C
- **Supply Voltage:** 3.3V ±5%
- **Pullability (±) @ Voltage:** 150ppm @ 3VDC (N152); 100ppm @ 3VDC (N102)

Pin	Function
1	VC
2	Tri State E/D
3	GND/Case
4	Output
5	N/C
6	Vdd

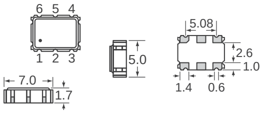

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1.544	535-9343-1-ND	5.63	5.25	4.50	3.38	535-9343-2-ND	2100.00	ASVV-1.544MHZ-N152
4.096	535-9351-1-ND	5.63	5.25	4.50	3.38	535-9351-2-ND	2100.00	ASVV-4.096MHZ-N152
6.176	535-9352-1-ND	5.63	5.25	4.50	3.38	535-9352-2-ND	2100.00	ASVV-6.176MHZ-N152
16.384	535-9341-1-ND	5.63	5.25	4.50	3.38	535-9341-2-ND	2100.00	ASVV-16.384MHZ-N152
19.440	535-9342-1-ND	5.63	5.25	4.50	3.38	535-9342-2-ND	2100.00	ASVV-19.440MHZ-N152
20.000	535-9344-1-ND	5.63	5.25	4.50	3.38	535-9344-2-ND	2100.00	ASVV-20.000MHZ-N152
27.000	535-9345-1-ND	5.63	5.25	4.50	3.38	535-9345-2-ND	2100.00	ASVV-27.000MHZ-N152
32.768	535-9346-1-ND	5.63	5.25	4.50	3.38	535-9346-2-ND	2100.00	ASVV-32.768MHZ-N152
35.328	535-9347-1-ND	5.63	5.25	4.50	3.38	535-9347-2-ND	2100.00	ASVV-35.328MHZ-N152
38.880	535-9348-1-ND	5.63	5.25	4.50	3.38	535-9348-2-ND	2100.00	ASVV-38.880MHZ-N152
40.000	535-9349-1-ND	5.63	5.25	4.50	3.38	535-9349-2-ND	2100.00	ASVV-40.000MHZ-N102
44.736	535-9350-1-ND	5.63	5.25	4.50	3.38	535-9350-2-ND	2100.00	ASVV-44.736MHZ-N102

ASV Series 5 x 7 SMD Oscillators

Specifications: **Operating Temperature:** -20°C ~ 70°C • **Supply Voltage:** 3.3V ± 10% **Features:** • HCMOS and TTL compatible • 3.3VDC operation **Frequency Tolerance:** ±20ppm (unless noted)

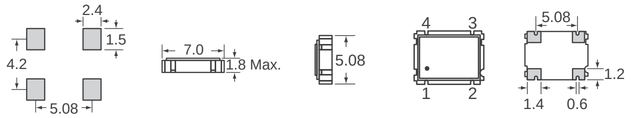

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1.84320	535-9315-1-ND	3.00	2.80	2.40	1.80	535-9315-2-ND	1120.00	ASV-1.8432MHZ-EJ-T
3.68640	535-9326-1-ND	3.00	2.80	2.40	1.80	535-9326-2-ND	1120.00	ASV-3.6864MHZ-EJ-T
4.00000	535-9329-1-ND	3.00	2.80	2.40	1.80	535-9329-2-ND	1120.00	ASV-4.000MHZ-EJ-T
7.37280	535-9331-1-ND	3.00	2.80	2.40	1.80	535-9331-2-ND	1120.00	ASV-7.3728MHZ-EJ-T
8.00000	535-9332-1-ND	3.00	2.80	2.40	1.80	535-9332-2-ND	1120.00	ASV-8.000MHZ-EJ-T
10.00000	535-9307-1-ND	3.00	2.80	2.40	1.80	535-9307-2-ND	1120.00	ASV-10.000MHZ-EJ-T
11.05920	535-9308-1-ND	3.00	2.80	2.40	1.80	535-9308-2-ND	1120.00	ASV-11.0592MHZ-EJ-T
12.00000	535-9309-1-ND	3.00	2.80	2.40	1.80	535-9309-2-ND	1120.00	ASV-12.000MHZ-EJ-T
14.31818	535-9310-1-ND	3.00	2.80	2.40	1.80	535-9310-2-ND	1120.00	ASV-14.31818MHZ-EJ-T
14.74560	535-9311-1-ND	3.00	2.80	2.40	1.80	535-9311-2-ND	1120.00	ASV-14.7456MHZ-EJ-T
16.00000	535-9312-1-ND	3.00	2.80	2.40	1.80	535-9312-2-ND	1120.00	ASV-16.000MHZ-EJ-T
16.38400	535-9313-1-ND	3.00	2.80	2.40	1.80	535-9313-2-ND	1120.00	ASV-16.384MHZ-EJ-T
18.43200	535-9314-1-ND	3.00	2.80	2.40	1.80	535-9314-2-ND	1120.00	ASV-18.432MHZ-EJ-T
20.00000	535-9316-1-ND	3.00	2.80	2.40	1.80	535-9316-2-ND	1120.00	ASV-20.000MHZ-EJ-T
24.00000	535-9317-1-ND	3.00	2.80	2.40	1.80	535-9317-2-ND	1120.00	ASV-24.000MHZ-EJ-T
24.57600	535-9318-1-ND	3.00	2.80	2.40	1.80	535-9318-2-ND	1120.00	ASV-24.576MHZ-EJ-T
25.00000	535-9319-1-ND	3.00	2.80	2.40	1.80	535-9319-2-ND	1120.00	ASV-25.000MHZ-EJ-T
27.00000	535-9320-1-ND	3.00	2.80	2.40	1.80	535-9320-2-ND	1120.00	ASV-27.000MHZ-EJ-T
29.49120	535-9321-1-ND	3.00	2.80	2.40	1.80	535-9321-2-ND	1120.00	ASV-29.4912MHZ-EJ-T
30.00000	535-9322-1-ND	3.00	2.80	2.40	1.80	535-9322-2-ND	1120.00	ASV-30.000MHZ-EJ-T
32.00000	535-9323-1-ND	3.00	2.80	2.40	1.80	535-9323-2-ND	1120.00	ASV-32.000MHZ-EJ-T
33.00000	535-9324-1-ND	3.00	2.80	2.40	1.80	535-9324-2-ND	1120.00	ASV-33.000MHZ-EJ-T
33.33300	535-9325-1-ND	3.00	2.80	2.40	1.80	535-9325-2-ND	1120.00	ASV-33.333MHZ-EJ-T
40.00000	535-9327-1-ND	3.00	2.80	2.40	1.80	535-9327-2-ND	1120.00	ASV-40.000MHZ-EJ-T
48.00000	535-9328-1-ND	3.00	2.80	2.40	1.80	535-9328-2-ND	1120.00	ASV-48.000MHZ-EJ-T
50.00000	535-9330-1-ND	3.00	2.80	2.40	1.80	535-9330-2-ND	1120.00	ASV-50.000MHZ-EJ-T
100.00000	300-8232-1-ND*	5.63	5.25	4.50	3.38	300-8232-2-ND*	2100.00	ASV-100.000MHZ-E-C-T
106.25000	300-8233-1-ND*	4.69	4.38	3.75	2.82	300-8233-2-ND*	1750.00	ASV-106.250MHZ-E-C-T
125.00000	300-8234-1-ND*	4.69	4.38	3.75	2.82	300-8234-2-ND*	1750.00	ASV-125.000MHZ-E-C-T
133.33000	300-8235-1-ND*	4.69	4.38	3.75	2.82	300-8235-2-ND*	1750.00	ASV-133.330MHZ-E-C-T
150.00000	300-8236-1-ND*	7.50	7.00	6.00	4.50	300-8236-2-ND*	2800.00	ASV-150.000MHZ-E-C-T

* Frequency Tolerance: ±50ppm

ASVTX Series VCTCXO SMD Oscillators

Specifications:
• **Frequency Stability:** ±2.5ppm, -30°C ~ 75°C • **Frequency Tolerance:** ±0.5ppm @ 25°C • **Operating Temperature:** -40°C ~ 85°C • **Supply Voltage:** 3V ±5%

Pin	Function
1	Vc or NC
2	GND
3	Output
4	Vcc

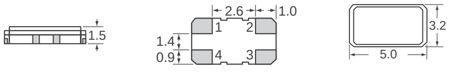

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
12.80	535-9333-1-ND	10.31	9.63	8.25	6.19	535-9333-2-ND	3850.00	ASVTX-09-12.800MHZ
13.00	535-9334-1-ND	10.31	9.63	8.25	6.19	535-9334-2-ND	3850.00	ASVTX-09-13.00MHZ
14.40	535-9335-1-ND	10.31	9.63	8.25	6.19	535-9335-2-ND	3850.00	ASVTX-09-14.400MHZ
16.00	535-9336-1-ND	10.31	9.63	8.25	6.19	535-9336-2-ND	3850.00	ASVTX-09-16.000MHZ
16.80	535-9337-1-ND	10.31	9.63	8.25	6.19	535-9337-2-ND	3850.00	ASVTX-09-16.800MHZ
19.20	535-9338-1-ND	10.31	9.63	8.25	6.19	535-9338-2-ND	3850.00	ASVTX-09-19.200MHZ
19.44	535-9339-1-ND	10.31	9.63	8.25	6.19	535-9339-2-ND	3850.00	ASVTX-09-19.440MHZ
26.00	535-9340-1-ND	10.31	9.63	8.25	6.19	535-9340-2-ND	3850.00	ASVTX-09-26.000MHZ

CITIZEN™

CMX309FLC Series Oscillators

Specifications: • **Frequency Tolerance:** ±100ppm • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Supply Voltage:** 5V ±0.5V • **Supply Current:** 23mA Max. • **Duty @ TTL Level (1.4V):** 45% ~ 55% • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Output Voltage:** -0.4V (VOH) Min. • **Output Voltage:** 0.4V (VOL) Max. • **Output Load TTL:** 10TTL Max. • **Output Load CMOS:** 50pF Max. • **Rise Time TTL:** 8ns Max. • **Fall Time TTL:** 8ns Max. • **Rise Time CMOS:** 8ns Max. • **Fall Time CMOS:** 8ns Max. • **Start-up Time:** 4ms Max. • **Output Enable-Voltage:** 2V (VIH) Min. • **Output Enable-Voltage:** 0.8V (VIL) Max. • **Disable Current:** 12mA Max. • **Aging (First Year):** ±5ppm Max.

Pin Connection	
1	OE
2	Gnd
3	Out
4	Vdd

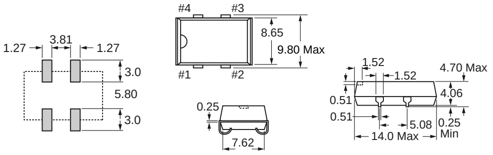

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
1.544000	300-7001-1-ND	3.00	2.80	1.80	300-7001-2-ND	1328.00	CMX309FLC1.544MT
2.000000	300-7003-1-ND	3.00	2.80	1.80	—	—	CMX309FLC2.000MT
2.048000	300-7004-1-ND	3.00	2.80	1.80	—	—	CMX309FLC2.048MT
3.072000	300-7006-1-ND	3.00	2.80	1.80	300-7006-2-ND	1328.00	CMX309FLC3.072MT
3.579545	300-7007-1-ND	3.00	2.80	1.80	300-7007-2-ND	1328.00	CMX309FLC3.579545MT
3.686400	300-7008-1-ND	3.00	2.80	1.80	300-7008-2-ND	1328.00	CMX309FLC3.6864MT
4.000000	300-7009-1-ND	3.00	2.80	1.80	—	—	CMX309FLC4.000MT
4.096000	300-7010-1-ND	3.00	2.80	1.80	300-7010-2-ND	1328.00	CMX309FLC4.096MT
4.915200	300-7011-1-ND	3.00	2.80	1.80	—	—	CMX309FLC4.9152MT
6.000000	300-7013-1-ND	3.00	2.80	1.80	—	—	CMX309FLC6.000MT
6.144000	300-7014-1-ND	3.00	2.80	1.80	300-7014-2-ND	1328.00	CMX309FLC6.144MT
7.372800	300-7015-1-ND	3.00	2.80	1.80	—	—	CMX309FLC7.3728MT
8.000000	300-7016-1-ND	3.00	2.80	1.80	300-7016-2-ND	1328.00	CMX309FLC8.000MT
8.192000	300-7017-1-ND	3.00	2.80	1.80	300-7017-2-ND	1328.00	CMX309FLC8.192MT
9.830400	300-7018-1-ND	3.00	2.80	1.80	300-7018-2-ND	1328.00	CMX309FLC9.8304MT
10.000000	300-7019-1-ND	3.00	2.80	1.80	—	—	CMX309FLC10.000MT
11.000000	300-7021-1-ND	3.00	2.80	1.80	300-7021-2-ND	1328.00	CMX309FLC11.000MT
11.289600	300-7023-1-ND	3.00	2.80	1.80	300-7023-2-ND	1328.00	CMX309FLC11.2896MT
12.000000	300-7024-1-ND	3.00	2.80	1.80	300-7024-2-ND	1328.00	CMX309FLC12.000MT
12.288000	300-7025-1-ND	3.00	2.80	1.80	—	—	CMX309FLC12.288MT
12.352000	300-7026-1-ND	3.00	2.80	1.80	300-7026-2-ND	1328.00	CMX309FLC12.352MT
13.500000	300-7027-1-ND	3.00	2.80	1.80	300-7027-2-ND	1328.00	CMX309FLC13.500MT
14.318180	300-7028-1-ND	3.00	2.80	1.80	300-7028-2-ND	1328.00	CMX309FLC14.31818MT
14.745600	300-7029-1-ND	3.00	2.80	1.80	—	—	CMX309FLC14.7456MT
15.360000	300-7031-1-ND	3.00	2.80	1.80	300-7031-2-ND	1328.00	CMX309FLC15.360MT
16.000000	300-7032-1-ND	3.00	2.80	1.80	—	—	CMX309FLC16.000MT
16.384000	300-7034-1-ND	3.00	2.80	1.80	300-7034-2-ND	1328.00	CMX309FLC16.384MT
16.666600	300-7035-1-ND	3.00	2.80	1.80	300-7035-2-ND	1328.00	CMX309FLC16.6666MT
17.734475	300-7036-1-ND	3.00	2.80	1.80	—	—	CMX309FLC17.734475MT
18.000000	300-7037-1-ND	3.00	2.80	1.80	300-7037-2-ND	1328.00	CMX309FLC18.000MT
18.432000	300-7038-1-ND	3.00	2.80	1.80	300-7038-2-ND	1328.00	CMX309FLC18.432MT
19.660800	300-7039-1-ND	3.00	2.80	1.80	—	—	CMX309FLC19.6608MT
20.000000	300-7040-1-ND	3.00	2.80	1.80	—	—	CMX309FLC20.000MT
24.000000	300-7042-1-ND	3.00	2.80	1.80	300-7042-2-ND	1328.00	CMX309FLC24.000MT
25.175000	300-7045-1-ND	3.00	2.80	1.80	—	—	CMX309FLC25.175MT
27.000000	300-7046-1-ND	3.00	2.80	1.80	300-7046-2-ND	1328.00	CMX309FLC27.000MT
28.322000	300-7047-1-ND	3.00	2.80	1.80	—	—	CMX309FLC28.322MT
28.636360	300-7048-1-ND	3.00	2.80	1.80	300-7048-2-ND	1328.00	CMX309FLC28.63636MT
29.498928	300-7049-1-ND	3.00	2.80	1.80	300-7049-2-ND	1328.00	CMX309FLC29.498928MT
30.000000	300-7050-1-ND	3.00	2.80	1.80	—	—	CMX309FLC30.000MT
NEW! RoHS Compliant NEW!							
1.544000	300-8580-1-ND	3.00	2.80	1.80	300-8580-2-ND	1328.00	CMX309FLC1.544M-UT
1.843200	300-8581-1-ND	3.00	2.80	1.80	300-8581-2-ND	1328.00	CMX309FLC1.8432M-UT
2.000000	300-8582-1-ND	3.00	2.80	1.80	300-8582-2-ND	1328.00	CMX309FLC2.000M-UT
2.048000	300-8583-1-ND	3.00	2.80	1.80	300-8583-2-ND	1328.00	CMX309FLC2.048M-UT
2.457600	300-8584-1-ND	3.00	2.80	1.80	300-8584-2-ND	1328.00	CMX309FLC2.4576M-UT
3.072000	300-8585-1-ND	3.00	2.80	1.80	300-8585-2-ND	1328.00	CMX309FLC3.072M-UT
3.579545	300-8586-1-ND	3.00	2.80	1.80	300-8586-2-ND	1328.00	CMX309FLC3.579545M-UT
3.686400	300-8587-1-ND	3.00	2.80	1.80	300-8587-2-ND	1328.00	CMX309FLC3.6864M-UT
4.000000	300-8588-1-ND	3.00	2.80	1.80	300-8588-2-ND	1328.00	CMX309FLC4.000M-UT
4.096000	300-8589-1-ND	3.00	2.80	1.80	300-8589-2-ND	1328.00	CMX309FLC4.096M-UT
4.915200	300-8590-1-ND	3.00	2.80	1.80	300-8590-2-ND	1328.00	CMX309FLC4.9152M-UT
5.000000	300-8591-1-ND	3.00	2.80	1.80	300-8591-2-ND	1328.00	CMX309FLC5.000M-UT
6.000000	300-8592-1-ND	3.00	2.80	1.80	300-8592-2-ND	1328.00	CMX309FLC6.000M-UT
6.144000	300-8593-1-ND	3.00	2.80	1.80	300-8593-2-ND	1328.00	CMX309FLC6.144M-UT
7.372800	300-8594-1-ND	3.00	2.80	1.80	300-8594-2-ND	1328.00	CMX309FLC7.3728M-UT
8.000000	300-8595-1-ND	3.00	2.80	1.80	300-8595-2-ND	1328.00	CMX309FLC8.000M-UT
8.192000	300-8596-1-ND	3.00	2.80	1.80	300-8596-2-ND	1328.00	CMX309FLC8.192M-UT
9.830400	300-8597-1-ND	3.00	2.80	1.80	300-8597-2-ND	1328.00	CMX309FLC9.8304M-UT
10.000000	300-8598-1-ND	3.00	2.80	1.80	300-8598-2-ND	1328.00	CMX309FLC10.000M-UT
11.059200	300-8599-1-ND	3.00	2.80	1.80	300-8599-2-ND	1328.00	CMX309FLC11.0592M-UT
11.289600	300-8600-1-ND	3.00	2.80	1.80	300-8600-2-ND	1328.00	CMX309FLC11.2896M-UT
12.000000	300-8601-1-ND	3.00	2.80	1.80	300-8601-2-ND	1328.00	CMX309FLC12.000M-UT
12.288000	300-8602-1-ND	3.00	2.80	1.80	300-8602-2-ND	1328.00	CMX309FLC12.288M-UT
13.500000	300-8603-1-ND	3.00	2.80	1.80	300-8603-2-ND	1328.00	CMX309FLC13.500M-UT
14.318180	300-8604-1-ND	3.00	2.80	1.80	300-8604-2-ND	1328.00	CMX309FLC14.31818M-UT
14.745600	300-8605-1-ND	3.00	2.80	1.80	300-8605-2-ND	1328.00	CMX309FLC14.7456M-UT
15.360000	300-8606-1-ND	3.00	2.80	1.80	300-8606-2-ND	1328.00	CMX309FLC15.360M-UT
16.000000	300-8607-1-ND	3.00	2.80	1.80	300-8607-2-ND	1328.00	CMX309FLC16.000M-UT
16.384000	300-8608-1-ND	3.00	2.80	1.80	300-8608-2-ND	1328.00	CMX309FLC16.384M-UT
17.734475	300-8609-1-ND	3.00	2.80	1.80	300-8609-2-ND	1328.00	CMX309FLC17.734475M-UT

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
NEW! RoHS Compliant NEW! (cont.)							
18.000000	300-8610-1-ND	3.00	2.80	1.80	300-8610-2-ND	1328.00	CMX309FLC18.000M-UT
18.432000	300-8611-1-ND	3.00	2.80	1.80	300-8611-2-ND	1328.00	CMX309FLC18.432M-UT
19.660800	300-8612-1-ND	3.00	2.80	1.80	300-8612-2-ND	1328.00	CMX309FLC19.6608M-UT
20.000000	300-8613-1-ND	3.00	2.80	1.80	300-8613-2-ND	1328.00	CMX309FLC20.000M-UT
22.118400	300-8614-1-ND	3.00	2.80	1.80	300-8614-2-ND	1328.00	CMX309FLC22.1184M-UT
24.000000	300-8615-1-ND	3.00	2.80	1.80	300-8615-2-ND	1328.00	CMX309FLC24.000M-UT
24.576000	300-8616-1-ND	3.00	2.80	1.80	300-8616-2-ND	1328.00	CMX309FLC24.576M-UT
25.000000	300-8617-1-ND	3.00	2.80	1.80	300-8617-2-ND	1328.00	CMX309FLC25.000M-UT
25.175000	300-8618-1-ND	3.00	2.80	1.80	300-8618-2-ND	1328.00	CMX309FLC25.175M-UT
27.000000	300-8619-1-ND	3.00	2.80	1.80	300-8619-2-ND	1328.00	CMX309FLC27.000M-UT
28.322000	300-8620-1-ND	3.00	2.80	1.80	300-8620-2-ND	1328.00	CMX309FLC28.322M-UT
28.636360	300-8621-1-ND	3.00	2.80	1.80	300-8621-2-ND	1328.00	CMX309FLC28.63636M-UT
29.498928	300-8622-1-ND	3.00	2.80	1.80	300-8622-2-ND	1328.00	CMX309FLC29.498928M-UT
30.000000	300-8623-1-ND	3.00	2.80	1.80	300-8623-2-ND	1328.00	CMX309FLC30.000M-UT

CMX309FBC Series Oscillators

Specifications: • **Frequency Tolerance:** ±100ppm • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Supply Voltage:** 3.3V ±0.3V • **Supply Current:** 9mA Max. • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Output Voltage:** -0.4V (VOH) Min. • **Output Voltage:** 0.4V (VOL) Max. • **Rise Time CMOS:** 6ns Max. • **Fall Time CMOS:** 6ns Max. • **Start-up Time:** 4ms Max. • **Output Enable-Voltage:** 2V (VIH) Min. • **Output Enable-Voltage:** 0.8V (VIL) Max. • **Disable Current:** 5mA Max. • **Aging (First Year):** ±5ppm Max.

Pin Connection	
1	OE
2	Gnd
3	Out
4	Vdd

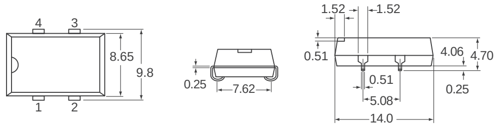

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
1.54400	300-2101-1-ND	2.81	2.63	1.69	300-2101-2-ND	1245.00	CMX309FBC1.544MTR
1.84320	300-2102-1-ND	2.81	2.63	1.69	—	—	CMX309FBC1.8432MTR
2.00000	300-2103-1-ND	2.81	2.63	1.69	300-2103-2-ND	1245.00	CMX309FBC2.000MTR
2.04800	300-2104-1-ND	2.81	2.63	1.69	—	—	CMX309FBC2.048MTR
2.45760	300-2105-1-ND	2.81	2.63	1.69	300-2105-2-ND	1245.00	CMX309FBC2.4576MTR
3.68640	300-2106-1-ND	2.81	2.63	1.69	—	—	CMX309FBC3.6864MTR
4.00000	300-2107-1-ND	2.81	2.63	1.69	300-2107-2-ND	1245.00	CMX309FBC4.000MTR
5.00000	300-2108-1-ND	2.81	2.63	1.69	300-2108-2-ND	1245.00	CMX309FBC5.000MTR
8.00000	300-2109-1-ND	2.81	2.63	1.69	300-2109-2-ND	1245.00	CMX309FBC8.000MTR
8.19200	300-2110-1-ND	2.81	2.63	1.69	—	—	CMX309FBC8.192MTR
9.83040	300-2111-1-ND	2.81	2.63	1.69	300-2111-2-ND	1245.00	CMX309FBC9.8304MTR
10.00000	300-2112-1-ND	2.81	2.63	1.69	300-2112-2-ND	1245.00	CMX309FBC10.000MTR
11.05920	300-2113-1-ND	2.81	2.63	1.69	300-2113-2-ND	1245.00	CMX309FBC11.0592MTR
12.00000	300-2115-1-ND	2.81	2.63	1.69	300-2115-2-ND	1245.00	CMX309FBC12.000MTR
12.28800	300-2116-1-ND	2.81	2.63	1.69	300-2116-2-ND	1245.00	CMX309FBC12.288MTR
14.31818	300-2117-1-ND	2.81	2.63	1.69	—	—	CMX309FBC14.31818MTR
14.74560	300-2118-1-ND	2.81	2.63	1.69	300-2118-2-ND	1245.00	CMX309FBC14.7456MTR
16.00000	300-2119-1-ND	2.81	2.63	1.69	—	—	CMX309FBC16.000MTR
16.38400	300-2120-1-ND	2.81	2.63	1.69	300-2120-2-ND	1245.00	CMX309FBC16.384MTR
18.43200	300-2121-1-ND	2.81	2.63	1.69	—	—	CMX309FBC18.432MTR
20.00000	300-2122-1-ND	2.81	2.63	1.69	300-2122-2-ND	1245.00	CMX309FBC20.000MTR
24.00000	300-2123-1-ND	2.81	2.63	1.69	300-2123-2-ND	1245.00	CMX309FBC24.000MTR
24.57600	300-2124-1-ND	2.81	2.63	1.69	300-2124-2-ND	1245.00	CMX309FBC24.576MTR
25.00000	300-2125-1-ND	2.81	2.63	1.69	—	—	CMX309FBC25.000MTR
27.00000	300-2126-1-ND	2.81	2.63	1.69	300-2126-2-ND	1245.00	CMX309FBC27.000MTR
NEW! RoHS Compliant NEW!							
1.00000	300-8366-1-ND	2.81	2.63	1.69	300-8366-2-ND	1245.00	CMX309FBC1.000M-UT
1.54400	300-8367-1-ND	2.81	2.63	1.69	300-8367-2-ND	1245.00	CMX309FBC1.544M-UT
1.84320	300-8368-1-ND	2.81	2.63	1.69	300-8368-2-ND	1245.00	CMX309FBC1.8432M-UT
2.00000	300-8369-1-ND	2.81	2.63	1.69	300-8369-2-ND	1245.00	CMX309FBC2.000M-UT
2.04800	300-8370-1-ND	2.81	2.63	1.69	300-8370-2-ND	1245.00	CMX309FBC2.048M-UT
2.45760	300-8371-1-ND	2.81	2.63	1.69	300-8371-2-ND	1245.00	CMX309FBC2.4576M-UT
3.68640	300-8372-1-ND	2.81	2.63	1.69	300-8372-2-ND	1245.00	CMX309FBC3.6864M-UT
4.00000	300-8373-1-ND	2.81	2.63	1.69	300-8373-2-ND	1245.00	CMX309FBC4.000M-UT
5.00000	300-8374-1-ND	2.81	2.63	1.69	300-8374-2-ND	1245.00	CMX309FBC5.000M-UT
8.00000	300-8375-1-ND	2.81	2.63	1.69	300-8375-2-ND	1245.00	CMX309FBC8.000M-UT
8.19200	300-8376-1-ND	2.81	2.63	1.69	300-8376-2-ND	1245.00	CMX309FBC8.192M-UT
9.83040	300-8377-1-ND	2.81	2.63	1.69	300-8377-2-ND	1245.00	CMX309FBC9.8304M-UT
10.00000	300-8378-1-ND	2.81	2.63	1.69	300-8378-2-ND	1245.00	CMX309FBC10.000M-UT
11.05920	300-8379-1-ND	2.81	2.63	1.69	300-8379-2-ND	1245.00	CMX309FBC11.0592M-UT
11.28960	300-8380-1-ND	2.81	2.63	1.69	300-8380-2-ND	1245.00	CMX309FBC11.2896M-UT
12.00000	300-8381-1-ND	2.81	2.63	1.69	300-8381-2-ND	1245.00	CMX309FBC12.000M-UT
12.28800	300-8382-1-ND	2.81	2.63	1.69	300-8382-2-ND	1245.00	CMX309FBC12.288M-UT
14.31818	300-8383-1-ND	2.81	2.63	1.69	300-8383-2-ND	1245.00	CMX309FBC14.31818M-UT

(Continued)

CITIZEN™ CMX309FBC Series Oscillators *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
NEW! RoHS Compliant NEW! (cont.)							
14.74560	300-8384-1-ND	2.81	2.63	1.69	300-8384-2-ND	1245.00	CMX309FBC14.7456M-UT
16.00000	300-8385-1-ND	2.81	2.63	1.69	300-8385-2-ND	1245.00	CMX309FBC16.000M-UT
16.38400	300-8386-1-ND	2.81	2.63	1.69	300-8386-2-ND	1245.00	CMX309FBC16.384M-UT
18.43200	300-8387-1-ND	2.81	2.63	1.69	300-8387-2-ND	1245.00	CMX309FBC18.432M-UT
20.00000	300-8388-1-ND	2.81	2.63	1.69	300-8388-2-ND	1245.00	CMX309FBC20.000M-UT
24.00000	300-8389-1-ND	2.81	2.63	1.69	300-8389-2-ND	1245.00	CMX309FBC24.000M-UT
24.57600	300-8390-1-ND	2.81	2.63	1.69	300-8390-2-ND	1245.00	CMX309FBC24.576M-UT
25.00000	300-8391-1-ND	2.81	2.63	1.69	300-8391-2-ND	1245.00	CMX309FBC25.000M-UT
27.00000	300-8392-1-ND	2.81	2.63	1.69	300-8392-2-ND	1245.00	CMX309FBC27.000M-UT

CMX309HWC Series Oscillators

Specifications: • **Frequency Tolerance:** ±100ppm • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Supply Voltage:** 5V ±0.5V • **Supply Current:** 35mA Max. • **Duty @ TTL Level (1.4V):** 45% ~ 55% • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Output Voltage:** -0.5V (VOH) Min. • **Output Voltage:** 0.5V (VOL) Max. • **Output Load TTL:** 10TTL Max. • **Output Load CMOS:** 50pF Max. • **Rise Time TTL:** 5ns Max. • **Fall Time TTL:** 5ns Max. • **Rise Time CMOS:** 7ns Max. • **Fall Time CMOS:** 7ns Max. • **Start-up Time:** 10ms Max. • **Output Enable-Voltage:** 2V (VIH) Min. • **Output Enable-Voltage:** 0.8V (VIL) Max. • **Disable Current:** 28mA Max. • **Aging (First Year):** ±5ppm Max.

Pin	Connection
1	OE
2	Gnd
3	Out
4	Vdd

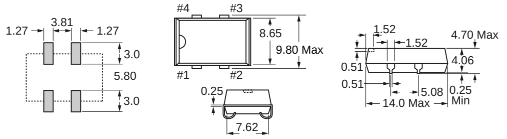

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
32.0000	300-7101-1-ND	3.00	2.80	1.80	300-7101-2-ND	1328.00	CMX309HWC32.000MT
32.7680	300-7102-1-ND	3.00	2.80	1.80	300-7102-2-ND	1328.00	CMX309HWC32.768MT
33.0000	300-7103-1-ND	3.00	2.80	1.80	300-7103-2-ND	1328.00	CMX309HWC33.000MT
33.3333	300-7104-1-ND	3.00	2.80	1.80	—	—	CMX309HWC33.3333MT
33.8688	300-7105-1-ND	3.00	2.80	1.80	—	—	CMX309HWC33.8688MT
44.2368	300-7108-1-ND	3.00	2.80	1.80	300-7108-2-ND	1328.00	CMX309HWC44.2368MT
48.0000	300-7109-1-ND	3.00	2.80	1.80	—	—	CMX309HWC48.000MT
49.1520	300-7110-1-ND	3.00	2.80	1.80	300-7110-2-ND	1328.00	CMX309HWC49.152MT
50.0000	300-7111-1-ND	3.19	2.98	1.92	300-7111-2-ND	1411.00	CMX309HWC50.000MT
53.1250	300-7112-1-ND	3.00	2.80	1.80	300-7112-2-ND	1328.00	CMX309HWC53.125MT
60.0000	300-7113-1-ND	3.00	2.80	1.80	300-7113-2-ND	1328.00	CMX309HWC60.000MT
66.6667	300-7116-1-ND	3.00	2.80	1.80	300-7116-2-ND	1328.00	CMX309HWC66.6667MT
NEW! RoHS Compliant NEW!							
32.0000	300-8624-1-ND	3.00	2.80	1.80	300-8624-2-ND	1328.00	CMX309HWC32.000M-UT
32.7680	300-8625-1-ND	3.00	2.80	1.80	300-8625-2-ND	1328.00	CMX309HWC32.768M-UT
33.0000	300-8626-1-ND	3.00	2.80	1.80	300-8626-2-ND	1328.00	CMX309HWC33.000M-UT
33.8688	300-8627-1-ND	3.00	2.80	1.80	300-8627-2-ND	1328.00	CMX309HWC33.8688M-UT
40.0000	300-8628-1-ND	3.00	2.80	1.80	300-8628-2-ND	1328.00	CMX309HWC40.000M-UT
48.0000	300-8629-1-ND	3.00	2.80	1.80	300-8629-2-ND	1328.00	CMX309HWC48.000M-UT
49.1520	300-8630-1-ND	3.00	2.80	1.80	300-8630-2-ND	1328.00	CMX309HWC49.152M-UT
50.0000	300-8631-1-ND	3.19	2.98	1.92	300-8631-2-ND	1411.00	CMX309HWC50.000M-UT
53.1250	300-8632-1-ND	3.00	2.80	1.80	300-8632-2-ND	1328.00	CMX309HWC53.125M-UT

CMX309HBC Series Oscillators

Specifications: • **Frequency Tolerance:** ±100ppm • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Supply Voltage:** 3.3V ±0.3V • **Duty Cycle @ CMOS Level:** 40% ~ 60% • **Output Voltage:** -0.4V (VOH) Min. • **Output Voltage:** 0.4V (VOL) Max. • **Rise Time CMOS:** 6ns Max. • **Fall Time CMOS:** 6ns Max. • **Start-up Time:** 10ms Max. • **Output Enable-Voltage:** 2.4V (VIH) Min. • **Output Enable-Voltage:** 0.6V (VIL) Max. • **Output Load CMOS:** 30pF Max. • **Disable Current:** 15mA Max. • **Aging (First Year):** ±5ppm Max.

Pin	Connection
1	OE
2	Gnd
3	Out
4	Vdd

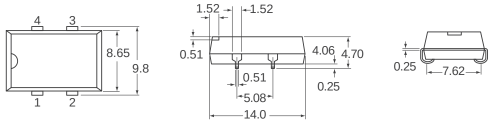

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
32.0000	300-2200-1-ND	2.81	2.63	1.69	300-2200-2-ND	1245.00	CMX309HBC32.000MTR
32.7680	300-2201-1-ND	2.81	2.63	1.69	300-2201-2-ND	1245.00	CMX309HBC32.768MTR
33.0000	300-2202-1-ND	2.81	2.63	1.69	300-2202-2-ND	1245.00	CMX309HBC33.000MTR
33.3333	300-2203-1-ND	2.81	2.63	1.69	300-2203-2-ND	1245.00	CMX309HBC33.3333MTR
36.8640	300-2204-1-ND	2.81	2.63	1.69	300-2204-2-ND	1245.00	CMX309HBC36.864MTR
40.0000	300-2205-1-ND	2.81	2.63	1.69	—	—	CMX309HBC40.000MTR
48.0000	300-2206-1-ND	2.81	2.63	1.69	—	—	CMX309HBC48.000MTR
50.0000	300-2207-1-ND	2.81	2.63	1.69	300-2207-2-ND	1245.00	CMX309HBC50.000MTR
53.1250	300-2208-1-ND	2.81	2.63	1.69	300-2208-2-ND	1245.00	CMX309HBC53.125MTR
NEW! RoHS Compliant NEW!							
32.0000	300-8393-1-ND	2.81	2.63	1.69	300-8393-2-ND	1245.00	CMX309HBC32.000M-UT
32.7680	300-8394-1-ND	2.81	2.63	1.69	300-8394-2-ND	1245.00	CMX309HBC32.768M-UT
33.0000	300-8395-1-ND	2.81	2.63	1.69	300-8395-2-ND	1245.00	CMX309HBC33.000M-UT
33.3333	300-8396-1-ND	2.81	2.63	1.69	300-8396-2-ND	1245.00	CMX309HBC33.3333M-UT
36.8640	300-8397-1-ND	2.81	2.63	1.69	300-8397-2-ND	1245.00	CMX309HBC36.864M-UT
40.0000	300-8398-1-ND	2.81	2.63	1.69	300-8398-2-ND	1245.00	CMX309HBC40.000M-UT
48.0000	300-8399-1-ND	2.81	2.63	1.69	300-8399-2-ND	1245.00	CMX309HBC48.000M-UT
50.0000	300-8400-1-ND	2.81	2.63	1.69	300-8400-2-ND	1245.00	CMX309HBC50.000M-UT
53.1250	300-8401-1-ND	2.81	2.63	1.69	300-8401-2-ND	1245.00	CMX309HBC53.125M-UT

CSX532T Series SMD TCXO Oscillators

Specifications: • **Frequency Tolerance:** ±1.5ppm @ 25°C, ±2°C • **Frequency/Temperature:** ±2.5ppm, -30°C ~ 75°C • **Frequency/Voltage Coefficient:** ±0.3ppm/Vdd±5% • **Frequency/Load Coefficient:** ±0.2ppm/(10kΩ/10pf) ±10% • **Power Consumption:** 1.0mA Max./13MHz • **Output Level:** 0.8Vp-p minimum; 10kΩ/10pF • **Frequency Adjustment:** ±8ppm minimum/Vdd/2±1.0V • **Start-up Time:** 3.5ms Max. • **Aging (First Year):** ±1ppm

Pin	Connection
1	Vcont
2	Gnd
3	Output
4	Vcc

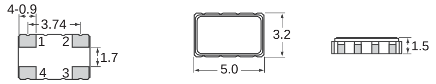

Supply Voltage	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 2,000	Citizen Part No.
2.8	13.0000	300-1100-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T13.000M2-UT10
	16.3676	300-8274-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T16.3676M2-UT-10
	16.8000	300-1101-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T16.800M2-UT10
	19.2000	300-1102-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T19.200M2-UT10
	24.5535	300-8276-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T24.5535M2-UT-10
	26.0000	300-1103-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T26.000M2-UT10
3	13.0000	300-1104-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T13.000M3-UT10
	16.3676	300-8275-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T16.3676M3-UT-10
	16.8000	300-1105-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T16.800M3-UT10
	19.2000	300-1106-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T19.200M3-UT10
	24.5535	300-8277-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T24.5535M3-UT-10
	26.0000	300-1107-1-ND	7.50	5.55	4.95	3990.00/M	CSX532T26.000M3-UT10

* For Tape & Reel Part No., change -1-ND to -2-ND.

CSX-750FCC, FBC, FJC Series SMD Oscillators

SPECIFICATIONS		CSX-750FCC		CSX-750FBC	CSX-750FJC
Frequency Range:		1.000MHz ~ 39.999MHz	40.000MHz ~ 70.000MHz	1.000MHz ~ 39.999MHz	40.000MHz ~ 80.000MHz
Frequency Stability:		C:±100ppm @ (-20°C ~ 70°C)			
Operating Temperature:		-20°C ~ 70°C			
Storage Temperature:		-55°C ~ 125°C			
Supply Voltage:		Vdd: 5.0V±0.5V		Vdd: 3.3V±0.3V	Vdd: 3.3V±0.3V
Supply Current:		25mA Max.	45mA Max.	15mA Max.	25mA Max.
Duty:	**TTL Level (1.4V):**	40% ~ 60%		—	—
	CMOS Level (VDD/2):	45% ~ 55%			
Output Voltage:	**VOH:**	0.9V Min.			
	VOL:	0.4V Max.		0.1V Max.	0.1V Max.
Output Load:	**TTL:**	10TTL Max.		—	—
	CMOS:	50pF Max.		30pF Max.	30pF Max.
Rise & Fall Time:	**CMOS:**	tr, tf: 8nsec Max.	tr, tf: 6nsec Max.	tr, tf: 8nsec Max.	tr, tf: 6nsec Max.
Start Up Time:		4msec Max.	10msec Max.	4msec Max.	10msec Max.
Input (OE) Voltage:		V IH: 2.0V Min.		V IH: 2.0V Min.	V IH: 0.7VDD Min.
		V IL: 0.8V Max.		V IL: 0.4V Max.	V IL: 0.3VDD Max.
Disable Current: FC, FB		10mA Max.	20mA Max.	5mA Max.	—
Stand-by Current: FJ		—	—	—	10μA Max.
Shock Resistance		±20ppm Max. (75cm height drop on hardwood board 3 times.)			

Pin Connection	
1	OE or Standby
2	Gnd
3	Out
4	Vdd

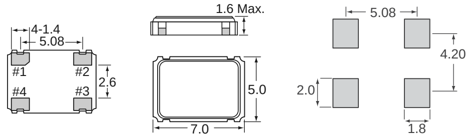

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 2,000	Citizen Part No.
CSX750FBC						
1.84320	300-7230-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC1.843200M-UT
3.68640	300-7231-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC3.686400M-UT
4.00000	300-7232-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC4.000000M-UT
7.37280	300-7233-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC7.372800M-UT
8.00000	300-7234-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC8.000000M-UT

* For Tape & Reel Part No., change -1-ND to -2-ND.

(Continued)

CITIZEN™ CSX-750FCC, FBC, FJC Series SMD Oscillators *(Cont.)*

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 2,000	Citizen Part No.
			CSX750FBC			
10.00000	300-7235-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC10.000000M-UT
12.00000	300-7236-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC12.000000M-UT
12.28800	300-7237-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC12.288000M-UT
14.31818	300-7238-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC14.318180M-UT
14.74560	300-7239-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC14.745600M-UT
16.00000	300-7240-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC16.000000M-UT
16.38400	300-7241-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC16.384000M-UT
18.43200	300-7242-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC18.432000M-UT
20.00000	300-7243-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC20.000000M-UT
24.00000	300-7244-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC24.000000M-UT
24.57600	300-7245-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC24.576000M-UT
25.00000	300-7246-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC25.000000M-UT
27.00000	300-7247-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC27.000000M-UT
29.49120	300-7248-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC29.491200M-UT
32.00000	300-7249-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC32.000000M-UT
32.76800	300-7250-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC32.768000M-UT
33.33300	300-7251-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC33.333000M-UT
35.32800	300-7252-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FBC35.328000M-UT
			CSX750FCC			
1.84320	300-7200-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC1.843200M-UT
3.68640	300-7201-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC3.686400M-UT
4.00000	300-7202-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC4.000000M-UT
7.37280	300-7203-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC7.372800M-UT
8.00000	300-7204-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC8.000000M-UT
10.00000	300-7205-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC10.000000M-UT
12.00000	300-7206-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC12.000000M-UT
12.28800	300-7207-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC12.288000M-UT
14.31818	300-7208-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC14.318180M-UT
14.74560	300-7209-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC14.745600M-UT
16.00000	300-7210-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC16.000000M-UT
16.38400	300-7211-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC16.384000M-UT
18.43200	300-7212-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC18.432000M-UT
20.00000	300-7213-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC20.000000M-UT
24.00000	300-7214-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC24.000000M-UT
24.57600	300-7215-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC24.576000M-UT
25.00000	300-7216-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC25.000000M-UT
27.00000	300-7217-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC27.000000M-UT
29.49120	300-7218-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC29.491200M-UT
32.00000	300-7219-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC32.000000M-UT
32.76800	300-7220-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC32.768000M-UT
33.33300	300-7221-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC33.333000M-UT
35.32800	300-7222-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC35.328000M-UT
40.00000	300-7223-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC40.000000M-UT
44.00000	300-7224-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC44.000000M-UT
45.00000	300-7225-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC45.000000M-UT
49.15200	300-7226-1-ND	3.38	3.15	2.70	—	CSX750FCC49.152000M-UT
50.00000	300-7227-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC50.000000M-UT
60.00000	300-7228-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC60.000000M-UT
66.66600	300-7229-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FCC66.666000M-UT
			CSX750FJC			
40.00000	300-7253-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC40.000000M-UT
44.00000	300-7254-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC44.000000M-UT
45.00000	300-7255-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC45.000000M-UT
49.15200	300-7256-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC49.152000M-UT
50.00000	300-7257-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC50.000000M-UT
60.00000	300-7258-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC60.000000M-UT
66.66600	300-7259-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC66.666000M-UT
80.00000	300-8191-1-ND	4.69	4.38	3.75	1750.00/M	CSX750FJB80.000000M-UT
80.00000	300-8231-1-ND	3.38	3.15	2.70	1260.00/M	CSX750FJC80.000M-UT

* For Tape & Reel Part No., change -1-ND to -2-ND.

CSX-750A Series High Frequency Ceramic Surface Mount Clock Oscillators

Specifications: • **CSX750AC:** 10TTL/30pF, OE, 5.0V operation type • **CSX750AB:** 15pF, OE, 3.3V operation type • **Nominal Frequency:** CSX750AC/AB 70.0 ~ 140.0MHz • **Operating Temperature:** -20°C ~ 70°C • **Supply Voltage:** CSX750AC 5.0 ±0.5V, CSX750AB 3.3 ±0.3V • **Frequency Stability:** B: ±50ppm(-20°C ~ 70°C) • **Current Consumption:** 50mA Max (CSX750AC), 30mA Max (CSX750AB) • **Duty Cycle:** 40% ~ 60% (TTL level), 45% ~ 55%(CMOS level)

Pin Connection	
1	OE or Standby
2	Gnd
3	Out
4	Vdd

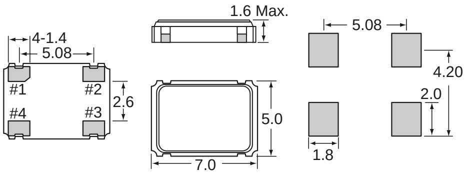

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
106.25	300-8154-1-ND	4.13	3.38	3.00	300-8154-2-ND	2100.00/M	CSX750ABB106.250MTR
106.25	300-8148-1-ND	4.13	3.38	3.00	300-8148-2-ND	2100.00/M	CSX750ACB106.250MTR
133.33	300-8150-1-ND	4.13	3.38	3.00	—	—	CSX750ACB133.330MTR

CSX-750V Series Voltage Controlled Crystal Oscillators

Specifications: • **CSX750VC:** 2TTL/30pF, OE<pin#5>, ±100ppm Pullability, 5.0V operation type • **CSX-750VB:** 30pF, OE<pin#5>, ±90ppm Pullability, 3.3V operation type • **Nominal Frequency:** CSX750VCB/VBB 4.096 ~ 35.328MHz • **Operating Temperature:** -20°C ~ 70°C • **Supply Voltage:** CSX750VC 5.0 ±0.5V, CSX750VB 3.3 ±0.3V • **Frequency Stability:** B:±50ppm(-10°C ~ 70°C) • **Current Consumption:** 30mA Max. (CSX750VC), 11mA Max. (CSX750VB) • **Duty Cycle:** 40% ~ 60% (TTL level), 45% ~ 55% (CMOS level) • **Pullability:** ±100ppm Min./Vc=2.5V±2.0V, ±90ppm Min./1.65V±1.65V • **Modulation Band Width:** 10kHz Min./gain-3dB • **Phase Noise:** -120dBc/Hz Max./offset 1kHz

Pin Connection	
1	VC
2	NC
3	Gnd
4	Out
5	OE
6	Vdd

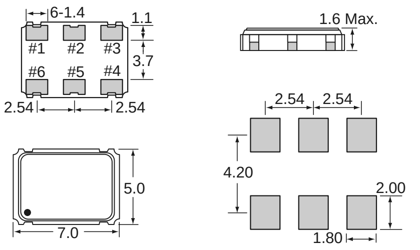

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
4.096	300-8173-1-ND	8.25	6.75	6.00	—	—	CSX750VBBL4.096MTR
4.096	300-8157-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM4.096MTR
8.000	300-8174-1-ND	8.25	6.75	6.00	300-8174-2-ND	2800.00/M	CSX750VBBL8.000MTR
8.000	300-8158-1-ND	8.25	6.75	6.00	300-8158-2-ND	2800.00/M	CSX750VCBM8.000MTR
8.192	300-8175-1-ND	8.25	6.75	6.00	—	—	CSX750VBBL8.192MTR
8.192	300-8159-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM8.192MTR
12.288	300-8176-1-ND	8.25	6.75	6.00	300-8176-2-ND	2800.00/M	CSX750VBBL12.288MTR
12.288	300-8160-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM12.288MTR
12.352	300-8177-1-ND	8.25	6.75	6.00	—	—	CSX750VBBL12.352MTR
12.352	300-8161-1-ND	8.25	6.75	6.00	300-8161-2-ND	2800.00/M	CSX750VCBM12.352MTR
13.500	300-8178-1-ND	8.25	6.75	6.00	300-8178-2-ND	2800.00/M	CSX750VBBL13.500MTR
13.500	300-8162-1-ND	8.25	6.75	6.00	300-8162-2-ND	2800.00/M	CSX750VCBM13.500MTR
16.384	300-8163-1-ND	8.25	6.75	6.00	300-8163-2-ND	2800.00/M	CSX750VCBM16.384MTR
19.440	300-8164-1-ND	8.25	6.75	6.00	300-8164-2-ND	2800.00/M	CSX750VCBM19.440MTR
24.576	300-8166-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM24.576MTR
24.704	300-8183-1-ND	8.25	6.75	6.00	—	—	CSX750VBBL24.704MTR
24.704	300-8167-1-ND	8.25	6.75	6.00	300-8167-2-ND	2800.00/M	CSX750VCBM24.704MTR
25.000	300-8184-1-ND	8.25	6.75	6.00	—	—	CSX750VBBL25.000MTR
25.000	300-8168-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM25.000MTR
27.000	300-8169-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM27.000MTR
32.000	300-8186-1-ND	8.25	6.75	6.00	300-8186-2-ND	2800.00/M	CSX750VBBL32.000MTR
32.000	300-8170-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM32.000MTR
32.768	300-8171-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM32.768MTR
35.328	300-8188-1-ND	5.50	4.50	4.00	300-8188-2-ND	2800.00/M	CSX750VBBL35.328M-UT
35.328	300-8172-1-ND	8.25	6.75	6.00	—	—	CSX750VCBM35.328MTR

Miniature Plastic Surface Mount 32.768KHz Crystals

CM130 Series

Specifications: • **Frequency:** 32.768kHz • **Operating Temperature:** -40°C ~ 85°C • **Load Capacitance:** 12.5pF • **Drive Level:** 1µW Max. • **Frequency Tolerance:** ±20ppm • **Equivalent Series Resistance (ESR):** 65kΩ

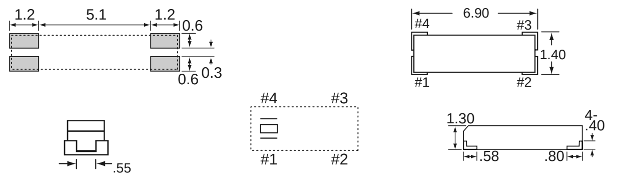

Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Citizen Part No.
			NEW! RoHS Compliant NEW!			
300-8633-1-ND	1.10	.90	.80	300-8633-2-ND	728.00/M	CM130-32.768KDZF-UT

CITIZEN™ CM309 Series Crystals

Specifications:

• **Frequency Tolerance:** ±30ppm • **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Load Capacitance:** 18.0pF • **Shunt Capacitance:** 7pF • **Drive Level:** 50µW ~ 100µW • **Insulation Resistance:** 500MΩ Min. • **Aging (First Year):** ±5ppm Max.

Equivalent Series Resistance (ESR, R1)		
Frequency	**ESR**	**Mode**
3.5MHz ≤ fo < 4MHz	200	Fundamental
4MHz ≤ fo < 6MHz	150	
6MHz ≤ fo < 10MHz	100	
10MHz ≤ fo ≤ 32MHz	50	
30MHz < fo < 36MHz	100	3rd OT
36MHz ≤ fo < 66.6666MHz	80	

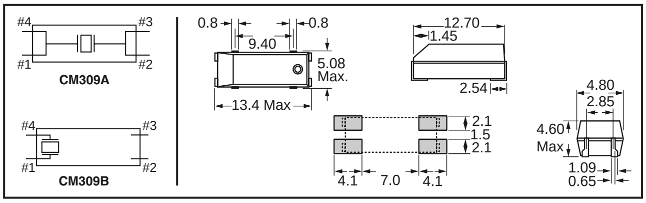

CM309A

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 1,000	Citizen Part No.
4.800000	300-4005-1-ND	1.51	1.30	.98	—	CM309A4.800MABJT
5.120000	300-4007-1-ND	1.51	1.30	.98	756.00	CM309A5.120MABJT
7.680000	300-4012-1-ND	1.51	1.30	.98	756.00	CM309A7.680MABJT
8.000156	300-4014-1-ND	1.51	1.30	.98	756.00	CM309A8.000156MABJT
8.192000	300-4015-1-ND	1.51	1.30	.98	756.00	CM309A8.192MABJT
9.216000	300-4016-1-ND	1.51	1.30	.98	756.00	CM309A9.216MABJT
9.830400	300-4018-1-ND	1.51	1.30	.98	756.00	CM309A9.8304MABJT
10.240000	300-4020-1-ND	1.51	1.30	.98	—	CM309A10.240MABJT
12.352000	300-4026-1-ND	1.51	1.30	.98	756.00	CM309A12.352MABJT
12.500000	300-4027-1-ND	1.51	1.30	.98	756.00	CM309A12.500MABJT
15.000000	300-4031-1-ND	1.51	1.30	.98	756.00	CM309A15.000MABJT
15.360000	300-4032-1-ND	1.51	1.30	.98	756.00	CM309A15.360MABJT
16.000312	300-4034-1-ND	1.51	1.30	.98	—	CM309A16.000312MABJT
16.257000	300-4035-1-ND	1.51	1.30	.98	756.00	CM309A16.257MABJT
18.000000	300-4040-1-ND	1.51	1.30	.98	—	CM309A18.000MABJT
20.480000	300-4045-1-ND	1.51	1.30	.98	—	CM309A20.480MABJT
25.175000	300-4050-1-ND	1.51	1.30	.98	—	CM309A25.175MABJT
28.000000	300-4052-1-ND	1.51	1.30	.98	756.00	CM309A28.000MABJT
28.322000	300-4053-1-ND	1.51	1.30	.98	756.00	CM309A28.322MABJT
28.636360	300-4054-1-ND	1.51	1.30	.98	756.00	CM309A28.63636MABJT
32.000000	300-4057-1-ND	1.51	1.30	.98	756.00	CM309A32.000MABJT
32.768000	300-4058-1-ND	1.51	1.30	.98	756.00	CM309A32.768MABJT
33.000000	300-4059-1-ND	1.51	1.30	.98	—	CM309A33.000MABJT
33.333300	300-4060-1-ND	1.51	1.30	.98	756.00	CM309A33.3333MABJT
33.868800	300-4061-1-ND	1.51	1.30	.98	756.00	CM309A33.8688MABJT
40.000000	300-4063-1-ND	1.51	1.30	.98	756.00	CM309A40.000MABJT
49.152000	300-4065-1-ND	1.51	1.30	.98	756.00	CM309A49.152MABJT
50.000000	300-4066-1-ND	1.51	1.30	.98	756.00	CM309A50.000MABJT
53.125000	300-4067-1-ND	1.51	1.30	.98	756.00	CM309A53.125MABJT
60.000000	300-4068-1-ND	1.51	1.30	.98	756.00	CM309A60.000MABJT
64.000000	300-4069-1-ND	1.51	1.30	.98	756.00	CM309A64.000MABJT
66.666600	300-4070-1-ND	1.51	1.30	.98	756.00	CM309A66.6666MABJT

CM309B

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape & Reel Pricing* 1,000	Citizen Part No.
3.579545	300-4101-1-ND	1.51	1.30	.98	—	CM309B3.579545MABJT
4.096000	300-4104-1-ND	1.51	1.30	.98	—	CM309B4.096MABJT
5.120000	300-4107-1-ND	1.51	1.30	.98	—	CM309B5.120MABJT
6.144000	300-4110-1-ND	1.51	1.30	.98	—	CM309B6.144MABJT
7.680000	300-4112-1-ND	1.51	1.30	.98	756.00	CM309B7.680MABJT
8.000156	300-4114-1-ND	1.51	1.30	.98	756.00	CM309B8.000156MABJT
9.600000	300-4117-1-ND	1.51	1.30	.98	—	CM309B9.600MABJT
9.830400	300-4118-1-ND	1.51	1.30	.98	756.00	CM309B9.8304MABJT
10.240000	300-4120-1-ND	1.51	1.30	.98	756.00	CM309B10.240MABJT
11.000000	300-4121-1-ND	1.51	1.30	.98	756.00	CM309B11.000MABJT
12.352000	300-4126-1-ND	1.51	1.30	.98	756.00	CM309B12.352MABJT
12.500000	300-4127-1-ND	1.51	1.30	.98	756.00	CM309B12.500MABJT
15.360000	300-4132-1-ND	1.51	1.30	.98	756.00	CM309B15.360MABJT
16.000312	300-4134-1-ND	1.51	1.30	.98	756.00	CM309B16.000312MABJT
16.257000	300-4135-1-ND	1.51	1.30	.98	756.00	CM309B16.257MABJT
17.734475	300-4139-1-ND	1.51	1.30	.98	—	CM309B17.734475MABJT
18.000000	300-4140-1-ND	1.51	1.30	.98	756.00	CM309B18.000MABJT
18.869000	300-4142-1-ND	1.51	1.30	.98	756.00	CM309B18.869MABJT
20.000000	300-4144-1-ND	1.51	1.30	.98	756.00	CM309B20.000MABJT
20.480000	300-4145-1-ND	1.51	1.30	.98	756.00	CM309B20.480MABJT
24.000000	300-4147-1-ND	1.51	1.30	.98	756.00	CM309B24.000MABJT
25.175000	300-4150-1-ND	1.51	1.30	.98	—	CM309B25.175MABJT
28.000000	300-4152-1-ND	1.51	1.30	.98	—	CM309B28.000MABJT
28.636360	300-4154-1-ND	1.51	1.30	.98	—	CM309B28.63636MABJT
32.000000	300-4157-1-ND	1.51	1.30	.98	756.00	CM309B32.000MABJT
32.768000	300-4158-1-ND	1.51	1.30	.98	—	CM309B32.768MABJT
33.000000	300-4159-1-ND	1.51	1.30	.98	756.00	CM309B33.000MABJT
33.333300	300-4160-1-ND	1.51	1.30	.98	—	CM309B33.3333MABJT
33.868800	300-4161-1-ND	1.51	1.30	.98	756.00	CM309B33.8688MABJT
48.000000	300-4164-1-ND	1.51	1.30	.98	756.00	CM309B48.000MABJT
49.152000	300-4165-1-ND	1.51	1.30	.98	756.00	CM309B49.152MABJT
50.000000	300-4166-1-ND	1.51	1.30	.98	756.00	CM309B50.000MABJT
53.125000	300-4167-1-ND	1.51	1.30	.98	756.00	CM309B53.125MABJT
60.000000	300-4168-1-ND	1.51	1.30	.98	756.00	CM309B60.000MABJT
64.000000	300-4169-1-ND	1.51	1.30	.98	756.00	CM309B64.000MABJT
66.666600	300-4170-1-ND	1.51	1.30	.98	756.00	CM309B66.6666MABJT

* For Tape & Reel Part No., change -1-ND to -2-ND.

CM309S Series Plastic Surface Mount Crystals

Specifications:

- **Operating Temperature:** -40°C ~ 85°C
- **Drive Level:** 100µW Max.
- **Load Capacitance:** 18.0pF
- **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C

Equivalent Series Resistance (ESR, R1)	
Frequency	**ESR (Ω Max.)**
3.5MHz ≤ fo < 4MHz	200
4MHz ≤ fo < 6MHz	150
6MHz ≤ fo < 10MHz	100
10MHz ≤ fo < 30MHz	50
30MHz ≤ fo < 36MHz	100
36MHz ≤ fo ≤ 70MHz	80

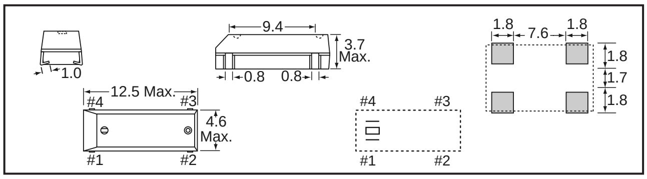

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
3.579545	300-8040-1-ND	1.10	.90	.80	—	—	CM309S3.579545MABJTR
4.000000	300-8042-1-ND	1.10	.90	.80	300-8042-2-ND	664.00	CM309S4.000MABJTR
4.915200	300-8044-1-ND	1.10	.90	.80	300-8044-2-ND	664.00	CM309S4.9152MABJTR
5.120000	300-2036-1-ND	1.10	.90	.80	300-2036-2-ND	664.00	CM309S5.120MABJTR
5.529600	300-2037-1-ND	1.10	.90	.80	300-2037-2-ND	664.00	CM309S5.5296MABJTR
6.144000	300-8046-1-ND	1.10	.90	.80	300-8046-2-ND	664.00	CM309S6.144MABJTR
8.000156	300-2038-1-ND	1.10	.90	.80	300-2038-2-ND	664.00	CM309S8.000156MABJTR
8.192000	300-2039-1-ND	1.10	.90	.80	300-2039-2-ND	664.00	CM309S8.192MABJTR
9.600000	300-2041-1-ND	1.10	.90	.80	300-2041-2-ND	664.00	CM309S9.600MABJTR
9.830000	300-8050-1-ND	1.10	.90	.80	—	—	CM309S9.830MABJTR
10.000000	300-8051-1-ND	1.10	.90	.80	—	—	CM309S10.000MABJTR
10.240000	300-8052-1-ND	1.10	.90	.80	300-8052-2-ND	664.00	CM309S10.240MABJTR
12.288000	300-8056-1-ND	1.10	.90	.80	300-8056-2-ND	664.00	CM309S12.288MABJTR
12.352000	300-2042-1-ND	1.10	.90	.80	300-2042-2-ND	664.00	CM309S12.352MABJTR
13.500000	300-2044-1-ND	1.10	.90	.80	—	—	CM309S13.500MABJTR
15.000000	300-8059-1-ND	1.10	.90	.80	300-8059-2-ND	664.00	CM309S15.000MABJTR
15.360000	300-8060-1-ND	1.10	.90	.80	—	—	CM309S15.360MABJTR
16.000000	300-8061-1-ND	1.10	.90	.80	300-8061-2-ND	664.00	CM309S16.000MABJTR
16.000312	300-2045-1-ND	1.10	.90	.80	300-2045-2-ND	664.00	CM309S16.000312MABJTR
16.257000	300-2046-1-ND	1.10	.90	.80	300-2046-2-ND	664.00	CM309S16.257MABJTR
16.384000	300-2047-1-ND	1.10	.90	.80	300-2047-2-ND	664.00	CM309S16.384MABJTR
16.934400	300-2048-1-ND	1.10	.90	.80	300-2048-2-ND	664.00	CM309S16.9344MABJTR
17.734475	300-2049-1-ND	1.10	.90	.80	300-2049-2-ND	664.00	CM309S17.734475MABJTR
18.000000	300-2050-1-ND	1.10	.90	.80	300-2050-2-ND	664.00	CM309S18.000MABJTR
18.432000	300-8063-1-ND	1.10	.90	.80	300-8063-2-ND	664.00	CM309S18.432MABJTR
18.869000	300-2051-1-ND	1.10	.90	.80	300-2051-2-ND	664.00	CM309S18.869MABJTR
19.440000	300-8064-1-ND	1.10	.90	.80	—	—	CM309S19.440MABJTR
19.660800	300-8065-1-ND	1.10	.90	.80	300-8065-2-ND	664.00	CM309S19.6608MABJTR
24.000000	300-8069-1-ND	1.10	.90	.80	—	—	CM309S24.000MABJTR
25.000000	300-8071-1-ND	1.10	.90	.80	300-8071-2-ND	664.00	CM309S25.000MABJTR
25.175000	300-2053-1-ND	1.10	.90	.80	300-2053-2-ND	664.00	CM309S25.175MABJTR
28.000000	300-2054-1-ND	1.10	.90	.80	300-2054-2-ND	664.00	CM309S28.000MABJTR
28.322000	300-2055-1-ND	1.10	.90	.80	300-2055-2-ND	664.00	CM309S28.322MABJTR
28.636360	300-8073-1-ND	1.10	.90	.80	300-8073-2-ND	664.00	CM309S28.63636MABJTR
32.000000	300-8076-1-ND	1.10	.90	.80	—	—	CM309S32.000MABJTR
32.768000	300-8077-1-ND	1.10	.90	.80	300-8077-2-ND	664.00	CM309S32.768MABJTR
33.000000	300-8078-1-ND	1.10	.90	.80	300-8078-2-ND	664.00	CM309S33.000MABJTR
33.868800	300-2056-1-ND	1.10	.90	.80	300-2056-2-ND	664.00	CM309S33.8688MABJTR
36.000000	300-8080-1-ND	1.10	.90	.80	—	—	CM309S36.000MABJTR
48.000000	300-8082-1-ND	1.10	.90	.80	300-8082-2-ND	664.00	CM309S48.000MABJTR
53.125000	300-8085-1-ND	1.10	.90	.80	—	—	CM309S53.125MABJTR
60.000000	300-8086-1-ND	1.10	.90	.80	—	—	CM309S60.000MABJTR
66.666600	300-8088-1-ND	1.10	.90	.80	—	—	CM309S66.6666MABJTR
NEW! RoHS Compliant NEW!							
3.579545	300-8634-1-ND	.96	.79	.70	300-8634-2-ND	581.00	CM309S3.579545MABJ-UT
3.686400	300-8635-1-ND	.96	.79	.70	300-8635-2-ND	581.00	CM309S3.6864MABJ-UT
4.000000	300-8636-1-ND	.96	.79	.70	300-8636-2-ND	581.00	CM309S4.000MABJ-UT
4.096000	300-8637-1-ND	.96	.79	.70	300-8637-2-ND	581.00	CM309S4.096MABJ-UT
4.800000	300-8318-1-ND	.96	.79	.70	300-8318-2-ND	581.00	CM309S4.800MABJ-UT
4.915200	300-8638-1-ND	.96	.79	.70	300-8638-2-ND	581.00	CM309S4.9152MABJ-UT
5.120000	300-8319-1-ND	.96	.79	.70	300-8319-2-ND	581.00	CM309S5.120MABJ-UT
5.529600	300-8320-1-ND	.96	.79	.70	300-8320-2-ND	581.00	CM309S5.5296MABJ-UT
6.000000	300-8639-1-ND	.96	.79	.70	300-8639-2-ND	581.00	CM309S6.000MABJ-UT
6.144000	300-8640-1-ND	.96	.79	.70	300-8640-2-ND	581.00	CM309S6.144MABJ-UT
7.372800	300-8641-1-ND	.96	.79	.70	300-8641-2-ND	581.00	CM309S7.3728MABJ-UT
8.000000	300-8642-1-ND	.96	.79	.70	300-8642-2-ND	581.00	CM309S8.000MABJ-UT
8.000156	300-8321-1-ND	.96	.79	.70	300-8321-2-ND	581.00	CM309S8.000156MABJ-UT
8.192000	300-8322-1-ND	.96	.79	.70	300-8322-2-ND	581.00	CM309S8.192MABJ-UT
9.216000	300-8323-1-ND	.96	.79	.70	300-8323-2-ND	581.00	CM309S9.216MABJ-UT
10.000000	300-8643-1-ND	.96	.79	.70	300-8643-2-ND	581.00	CM309S10.000MABJ-UT
10.240000	300-8644-1-ND	.96	.79	.70	300-8644-2-ND	581.00	CM309S10.240MABJ-UT
11.059200	300-8645-1-ND	.96	.79	.70	300-8645-2-ND	581.00	CM309S11.0592MABJ-UT
12.000000	300-8646-1-ND	.96	.79	.70	300-8646-2-ND	581.00	CM309S12.000MABJ-UT
12.288000	300-8647-1-ND	.96	.79	.70	300-8647-2-ND	581.00	CM309S12.288MABJ-UT
12.352000	300-8324-1-ND	.96	.79	.70	300-8324-2-ND	581.00	CM309S12.352MABJ-UT
12.500000	300-8325-1-ND	.96	.79	.70	300-8325-2-ND	581.00	CM309S12.500MABJ-UT

(Continued)

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
NEW! RoHS Compliant NEW! (cont.)							
13.500000	300-8326-1-ND	.96	.79	.70	300-8326-2-ND	581.00	CM309S13.500MABJ-UT
14.318180	300-8648-1-ND	.96	.79	.70	300-8648-2-ND	581.00	CM309S14.31818MABJ-UT
14.745600	300-8649-1-ND	.96	.79	.70	300-8649-2-ND	581.00	CM309S14.7456MABJ-UT
15.000000	300-8650-1-ND	.96	.79	.70	300-8650-2-ND	581.00	CM309S15.000MABJ-UT
16.000000	300-8651-1-ND	.96	.79	.70	300-8651-2-ND	581.00	CM309S16.000MABJ-UT
16.384000	300-8327-1-ND	.96	.79	.70	300-8327-2-ND	581.00	CM309S16.384MABJ-UT
16.934400	300-8328-1-ND	.96	.79	.70	300-8328-2-ND	581.00	CM309S16.9344MABJ-UT
17.734475	300-8329-1-ND	.96	.79	.70	300-8329-2-ND	581.00	CM309S17.734475MABJ-UT
18.000000	300-8330-1-ND	.96	.79	.70	300-8330-2-ND	581.00	CM309S18.000MABJ-UT
18.432000	300-8652-1-ND	.96	.79	.70	300-8652-2-ND	581.00	CM309S18.432MABJ-UT
19.660800	300-8653-1-ND	.96	.79	.70	300-8653-2-ND	581.00	CM309S19.6608MABJ-UT
20.000000	300-8654-1-ND	.96	.79	.70	300-8654-2-ND	581.00	CM309S20.000MABJ-UT
22.118400	300-8655-1-ND	.96	.79	.70	300-8655-2-ND	581.00	CM309S22.1184MABJ-UT
24.000000	300-8656-1-ND	.96	.79	.70	300-8656-2-ND	581.00	CM309S24.000MABJ-UT
24.576000	300-8331-1-ND	.96	.79	.70	300-8331-2-ND	581.00	CM309S24.576MABJ-UT
25.000000	300-8657-1-ND	.96	.79	.70	300-8657-2-ND	581.00	CM309S25.000MABJ-UT
25.175000	300-8332-1-ND	.96	.79	.70	300-8332-2-ND	581.00	CM309S25.175MABJ-UT
27.000000	300-8658-1-ND	.96	.79	.70	300-8658-2-ND	581.00	CM309S27.000MABJ-UT
28.322000	300-8333-1-ND	.96	.79	.70	300-8333-2-ND	581.00	CM309S28.322MABJ-UT
29.491200	300-8659-1-ND	.96	.79	.70	300-8659-2-ND	581.00	CM309S29.4912MABJ-UT
32.000000	300-8660-1-ND	.96	.79	.70	300-8660-2-ND	581.00	CM309S32.000MABJ-UT
40.000000	300-8300-1-ND	.96	.79	.70	300-8300-2-ND	581.00	CM309S40.000MABJ-UT
48.000000	300-8662-1-ND	.96	.79	.70	300-8662-2-ND	581.00	CM309S48.000MABJ-UT

CS10 Series Ceramic Surface Mount Crystals

RoHS COMPLIANT

Specifications:
• **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C • **Operating Temperature:** -40°C ~ 85°C • **Drive Level:** 50μW Max. • **Frequency Tolerance:** ±30ppm • **Load Capacitance:** 18.0pF • **Equivalent Series Resistance (ESR):** 50Ω Max. • **Operating Mode:** Fundamental

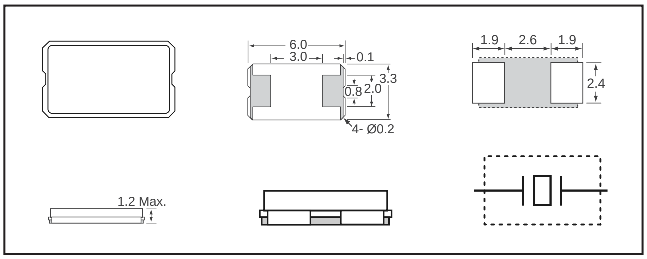

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
12.000000	300-8089-1-ND	1.24	1.02	.90	300-8089-2-ND	630.00/M	CS10-12.000MABJ-UT
12.288000	300-8090-1-ND	1.24	1.02	.90	300-8090-2-ND	630.00/M	CS10-12.288MABJ-UT
12.500000	300-8091-1-ND	1.24	1.02	.90	300-8091-2-ND	630.00/M	CS10-12.500MABJ-UT
13.560000	300-8092-1-ND	1.24	1.02	.90	300-8092-2-ND	630.00/M	CS10-13.560MABJ-UT
14.318180	300-8093-1-ND	1.24	1.02	.90	300-8093-2-ND	630.00/M	CS10-14.31818MABJ-UT
14.745600	300-8094-1-ND	1.24	1.02	.90	300-8094-2-ND	630.00/M	CS10-14.7456MABJ-UT
15.360000	300-8095-1-ND	1.65	1.35	1.20	—	—	CS10-15.360MABJTR
16.000000	300-8096-1-ND	1.24	1.02	.90	300-8096-2-ND	630.00/M	CS10-16.000MABJ-UT
16.384000	300-8097-1-ND	1.65	1.35	1.20	300-8097-2-ND	630.00/M	CS10-16.384MABJTR
18.432000	300-8098-1-ND	1.24	1.02	.90	300-8098-2-ND	630.00/M	CS10-18.432MABJ-UT
19.660800	300-8100-1-ND	1.24	1.02	.90	300-8100-2-ND	630.00/M	CS10-19.6608MABJ-UT
20.000000	300-8101-1-ND	1.24	1.02	.90	300-8101-2-ND	630.00/M	CS10-20.000MABJ-UT
22.118400	300-8102-1-ND	1.24	1.02	.90	300-8102-2-ND	630.00/M	CS10-22.1184MABJ-UT
24.000000	300-8103-1-ND	1.24	1.02	.90	300-8103-2-ND	630.00/M	CS10-24.000MABJ-UT
24.576000	300-8104-1-ND	1.24	1.02	.90	300-8104-2-ND	630.00/M	CS10-24.576MABJ-UT
25.000000	300-8105-1-ND	1.24	1.02	.90	300-8105-2-ND	630.00/M	CS10-25.000MABJ-UT
27.000000	300-8106-1-ND	1.24	1.02	.90	300-8106-2-ND	630.00/M	CS10-27.000MABJ-UT
28.636360	300-8107-1-ND	1.24	1.02	.90	300-8107-2-ND	630.00/M	CS10-28.63636MABJ-UT
33.000000	300-8112-1-ND	1.24	1.02	.90	300-8112-2-ND	630.00/M	CS10-33.000MABJ-UT
40.000000	300-8114-1-ND	1.24	1.02	.90	300-8114-2-ND	630.00/M	CS10-40.000MABJ-UT
48.000000	300-8115-1-ND	1.24	1.02	.90	300-8115-2-ND	630.00/M	CS10-48.000MABJ-UT

CS20 Series Ceramic Surface Mount Crystals

RoHS COMPLIANT

Specifications:

- **Operating Temperature:** -40°C ~ 85°C
- **Drive Level:** 100μW Max.
- **Frequency Tolerance:** ±30ppm
- **Load Capacitance:** 18.0pF
- **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C

Equivalent Series Resistance (ESR Ω Max.)		
Frequency	**ESR**	**Mode**
3.5MHz ≤ fo < 4.0MHz	200	Fundamental
4.0MHz ≤ fo < 6.0MHz	150	
6.0MHz ≤ fo < 10.0MHz	100	
10.0MHz ≤ fo < 14.0MHz	80	
14.0MHz < fo ≤ 30.0MHz	50	

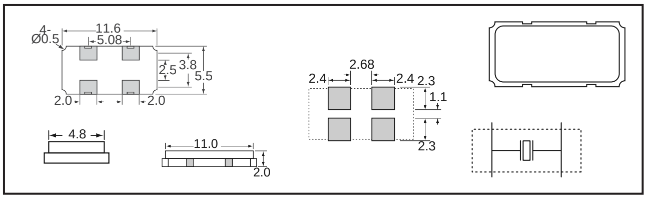

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
3.579545	300-8116-1-ND	1.10	.90	.80	300-8116-2-ND	560.00/M	CS20-3.579545MABJ-UT
3.686400	300-8117-1-ND	1.10	.90	.80	300-8117-2-ND	560.00/M	CS20-3.6864MABJ-UT
4.000000	300-8118-1-ND	1.10	.90	.80	300-8118-2-ND	560.00/M	CS20-4.000MABJ-UT
4.096000	300-8119-1-ND	1.10	.90	.80	300-8119-2-ND	560.00/M	CS20-4.096MABJ-UT
4.915200	300-8120-1-ND	1.10	.90	.80	300-8120-2-ND	560.00/M	CS20-4.9152MABJ-UT
5.000000	300-8121-1-ND	1.10	.90	.80	300-8121-2-ND	560.00/M	CS20-5.000MABJ-UT
6.000000	300-8122-1-ND	1.10	.90	.80	300-8122-2-ND	560.00/M	CS20-6.000MABJ-UT
6.144000	300-8123-1-ND	1.32	1.08	.96	300-8123-2-ND	560.00/M	CS20-6.144MABJTR
7.372800	300-8124-1-ND	1.10	.90	.80	300-8124-2-ND	560.00/M	CS20-7.3728MABJ-UT
7.680000	300-8125-1-ND	1.32	1.08	.96	300-8125-2-ND	560.00/M	CS20-7.680MABJTR
8.000000	300-8126-1-ND	1.10	.90	.80	300-8126-2-ND	560.00/M	CS20-8.000MABJ-UT
10.000000	300-8127-1-ND	1.10	.90	.80	300-8127-2-ND	560.00/M	CS20-10.000MABJ-UT
11.059200	300-8128-1-ND	1.10	.90	.80	300-8128-2-ND	560.00/M	CS20-11.0592MABJ-UT
11.289600	300-8129-1-ND	1.10	.90	.80	300-8129-2-ND	560.00/M	CS20-11.2896MABJ-UT
12.000000	300-8130-1-ND	1.10	.90	.80	300-8130-2-ND	560.00/M	CS20-12.000MABJ-UT
12.288000	300-8131-1-ND	1.10	.90	.80	300-8131-2-ND	560.00/M	CS20-12.288MABJ-UT
14.318180	300-8132-1-ND	1.32	1.08	.96	—	—	CS20-14.31818MABJTR
14.745600	300-8133-1-ND	1.10	.90	.80	300-8133-2-ND	560.00/M	CS20-14.7456MABJ-UT
15.360000	300-8134-1-ND	1.32	1.08	.96	—	—	CS20-15.360MABJTR
16.000000	300-8135-1-ND	1.10	.90	.80	300-8135-2-ND	560.00/M	CS20-16.000MABJ-UT
18.432000	300-8137-1-ND	1.32	1.08	.96	300-8137-2-ND	560.00/M	CS20-18.432MABJTR
19.440000	300-8138-1-ND	1.32	1.08	.96	300-8138-2-ND	560.00/M	CS20-19.440MABJTR
20.000000	300-8139-1-ND	1.10	.90	.80	300-8139-2-ND	560.00/M	CS20-20.000MABJ-UT
20.480000	300-8140-1-ND	1.32	1.08	.96	—	—	CS20-20.480MABJTR
22.118400	300-8141-1-ND	1.10	.90	.80	300-8141-2-ND	560.00/M	CS20-22.1184MABJ-UT
24.576000	300-8143-1-ND	1.10	.90	.80	300-8143-2-ND	560.00/M	CS20-24.576MABJ-UT
25.000000	300-8144-1-ND	1.10	.90	.80	300-8144-2-ND	560.00/M	CS20-25.000MABJ-UT

CMR250T Series Crystals

Specifications:

- **Frequency Tolerance:** ±30ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Load Capacitance:** 12.5pF
- **Shunt Capacitance:** .8pF ~ 1.7pF
- **Drive Level:** 1μW Max.
- **Insulation Resistance:** 500MΩ Min.
- **Aging (First Year):** ±5ppm Max.

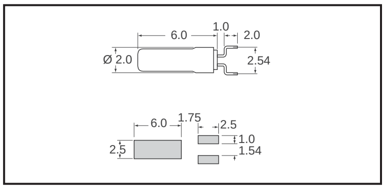

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	Citizen Part No.
40.000	300-2058-1-ND	1.75	1.50	1.13	300-2058-2-ND	700.00/M	CMR250TB40.000KAZFTR
60.000	300-2059-1-ND	1.75	1.50	1.13	—	—	CMR250TB60.000KAZFTR
65.535	300-2060-1-ND	1.75	1.50	1.13	300-2060-2-ND	700.00/M	CMR250TB65.535KAZFTR
75.000	300-2061-1-ND	1.75	1.50	1.13	300-2061-2-ND	700.00/M	CMR250TB75.000KAZFTR
76.800	300-2062-1-ND	1.75	1.50	1.13	—	—	CMR250TB76.8KAZFTR
96.000	300-2063-1-ND	1.75	1.50	1.13	—	—	CMR250TB96.000KAZFTR
NEW! RoHS Compliant NEW!							
32.000	300-8334-1-ND	1.75	1.50	1.13	300-8334-2-ND	700.00/M	CMR250T32.000KAZF-UT
60.000	300-8335-1-ND	1.75	1.50	1.13	300-8335-2-ND	700.00/M	CMR250T60.000KAZF-UT
65.535	300-8336-1-ND	1.75	1.50	1.13	300-8336-2-ND	700.00/M	CMR250T65.535KAZF-UT
75.000	300-8337-1-ND	1.75	1.50	1.13	300-8337-2-ND	700.00/M	CMR250T75.000KAZF-UT
76.800	300-8338-1-ND	1.75	1.50	1.13	300-8338-2-ND	700.00/M	CMR250T76.8KAZF-UT
100.000	300-8339-1-ND	1.75	1.50	1.13	300-8339-2-ND	700.00/M	CMR250T100.000KAZF-UT

CITIZEN™ CMR309T Series Crystals

Specifications:
- **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C
- **Aging (first year):** ±5ppm max. @ 25°C
- **Frequency Tolerance:** ±30ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Load Capacitance:** 18.0pF
- **Shunt Capacitance:** 5pF
- **Drive Level:** 100μW
- **Insulation Resistance:** 500MΩ Min.
- **Mode of Oscillation: Fundamental:** 3.579545MHz to 27.000MHz; **Third Overtone:** 32.000MHz to 66.6660MHz

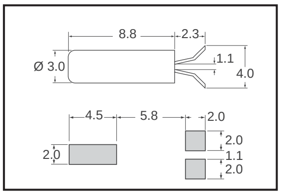

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
4.09600	300-2070-1-ND	.98	.84	.63	—	—	CMR309T4.096MABJTR
4.91520	300-2071-1-ND	.98	.84	.63	—	—	CMR309T4.9152MABJTR
5.00000	300-2072-1-ND	.98	.84	.63	300-2072-2-ND	490.00	CMR309T5.000MABJTR
9.83040	300-2076-1-ND	.98	.84	.63	300-2076-2-ND	490.00	CMR309T9.8304MABJTR
10.00000	300-2077-1-ND	.98	.84	.63	300-2077-2-ND	490.00	CMR309T10.000MABJTR
12.00000	300-2079-1-ND	.98	.84	.63	300-2079-2-ND	490.00	CMR309T12.000MABJTR
12.28800	300-2080-1-ND	.98	.84	.63	—	—	CMR309T12.288MABJTR
14.31818	300-2081-1-ND	.98	.84	.63	300-2081-2-ND	490.00	CMR309T14.31818MABJTR
16.38400	300-2083-1-ND	.98	.84	.63	300-2083-2-ND	490.00	CMR309T16.384MABJTR
18.43200	300-2084-1-ND	.98	.84	.63	300-2084-2-ND	490.00	CMR309T18.432MABJTR
22.11840	300-2085-1-ND	.98	.84	.63	300-2085-2-ND	490.00	CMR309T22.1184MABJTR
24.00000	300-2086-1-ND	.98	.84	.63	300-2086-2-ND	490.00	CMR309T24.000MABJTR
24.57600	300-2087-1-ND	.98	.84	.63	—	—	CMR309T24.576MABJTR
32.00000	300-2089-1-ND	.98	.84	.63	300-2089-2-ND	490.00	CMR309T32.000MABJTR
40.00000	300-2090-1-ND	.98	.84	.63	300-2090-2-ND	490.00	CMR309T40.000MABJTR
48.00000	300-2091-1-ND	.98	.84	.63	300-2091-2-ND	490.00	CMR309T48.000MABJTR
49.15200	300-2092-1-ND	.98	.84	.63	300-2092-2-ND	490.00	CMR309T49.152MABJTR
50.00000	300-2093-1-ND	.98	.84	.63	300-2093-2-ND	490.00	CMR309T50.000MABJTR
60.00000	300-2094-1-ND	.98	.84	.63	300-2094-2-ND	490.00	CMR309T60.000MABJTR
66.66600	300-2095-1-ND	.98	.84	.63	300-2095-2-ND	490.00	CMR309T66.666MABJTR
NEW! RoHS Compliant NEW!							
4.09600	300-8345-1-ND	.98	.84	.63	300-8345-2-ND	490.00	CMR309T4.096MABJ-UT
4.91520	300-8346-1-ND	.98	.84	.63	300-8346-2-ND	490.00	CMR309T4.9152MABJ-UT
5.00000	300-8347-1-ND	.98	.84	.63	300-8347-2-ND	490.00	CMR309T5.000MABJ-UT
6.00000	300-8348-1-ND	.98	.84	.63	300-8348-2-ND	490.00	CMR309T6.000MABJ-UT
7.37280	300-8349-1-ND	.98	.84	.63	300-8349-2-ND	490.00	CMR309T7.3728MABJ-UT
8.00000	300-8350-1-ND	.98	.84	.63	300-8350-2-ND	490.00	CMR309T8.000MABJ-UT
10.00000	300-8351-1-ND	.98	.84	.63	300-8351-2-ND	490.00	CMR309T10.000MABJ-UT
11.05920	300-8352-1-ND	.98	.84	.63	300-8352-2-ND	490.00	CMR309T11.0592MABJ-UT
12.00000	300-8353-1-ND	.98	.84	.63	300-8353-2-ND	490.00	CMR309T12.000MABJ-UT
12.28800	300-8354-1-ND	.98	.84	.63	300-8354-2-ND	490.00	CMR309T12.288MABJ-UT
14.31818	300-8355-1-ND	.98	.84	.63	300-8355-2-ND	490.00	CMR309T14.31818MABJ-UT
16.00000	300-8356-1-ND	.98	.84	.63	300-8356-2-ND	490.00	CMR309T16.000MABJ-UT
16.38400	300-8357-1-ND	.98	.84	.63	300-8357-2-ND	490.00	CMR309T16.384MABJ-UT
18.43200	300-8358-1-ND	.98	.84	.63	300-8358-2-ND	490.00	CMR309T18.432MABJ-UT
22.11840	300-8359-1-ND	.98	.84	.63	300-8359-2-ND	490.00	CMR309T22.1184MABJ-UT
24.00000	300-8360-1-ND	.98	.84	.63	300-8360-2-ND	490.00	CMR309T24.000MABJ-UT
24.57600	300-8361-1-ND	.98	.84	.63	300-8361-2-ND	490.00	CMR309T24.576MABJ-UT
27.00000	300-8362-1-ND	.98	.84	.63	300-8362-2-ND	490.00	CMR309T27.000MABJ-UT
40.00000	300-8363-1-ND	.98	.84	.63	300-8363-2-ND	490.00	CMR309T40.000MABJ-UT
48.00000	300-8364-1-ND	.98	.84	.63	300-8364-2-ND	490.00	CMR309T48.000MABJ-UT
50.00000	300-8365-1-ND	.98	.84	.63	300-8365-2-ND	490.00	CMR309T50.000MABJ-UT

CMR310T Series Crystals

Specifications:
- **Frequency/Temperature:** ±50ppm, -10°C ~ 60°C
- **Aging (first year):** ±5ppm max. @ 25°C
- **Frequency Tolerance:** ±30ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Load Capacitance:** 18.0pF
- **Shunt Capacitance:** 5pF
- **Drive Level:** 100μW
- **Insulation Resistance:** 500MΩ Min.

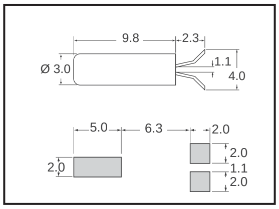

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
4.000000	300-2069-1-ND	.98	.84	.63	300-2069-2-ND	490.00	CMR310T4.000MABJTR
NEW! RoHS Compliant NEW!							
3.579545	300-8342-1-ND	.98	.84	.63	300-8342-2-ND	490.00	CMR310T3.579545MABJ-UT
3.686400	300-8343-1-ND	.98	.84	.93	300-8343-2-ND	490.00	CMR310T3.6864MABJ-UT
4.000000	300-8344-1-ND	.98	.84	.63	300-8344-2-ND	490.00	CMR310T4.000MABJ-UT

CMJ145, CMJ206 and CMR200T Series 32.768kHz Crystals

Specifications:
- **Frequency:** 32.768kHz
- **Frequency Tolerance:** ±20ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Drive Level:** 1μW
- **Insulation Resistance:** 500MΩ

Fig. 1

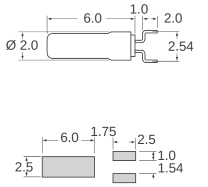

Fig. 2

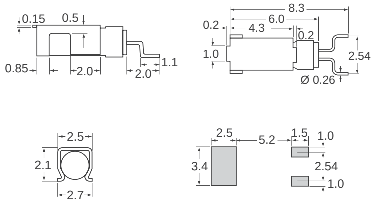

Fig.	Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Size	Pricing	Citizen Part No.
1	6.0pF	300-2066-1-ND	.70	.60	.45	300-2066-2-ND	2,000	280.00/M	CMR200TB32.768KDZBTR
	12.5pF	300-2065-1-ND	.70	.60	.45	—	—	—	CMR200TB32.768KDZFTR
2	6.0pF	300-8192-1-ND	.88	.75	.57	300-8192-2-ND	3,000	350.00/M	CMJ206T32.768KDZBTR
	12.5pF	300-8189-1-ND	.88	.75	.57	300-8189-2-ND	3,000	350.00/M	CMJ206T32.768KDZFTR
NEW! RoHS Compliant NEW!									
1	6.0pF	300-8341-1-ND	.70	.60	.45	300-8341-2-ND	2,000	280.00/M	CMR200T32.768KDZB-UT
	12.5pF	300-8340-1-ND	.70	.60	.45	300-8340-2-ND	2,000	280.00/M	CMR200T32.768KDZF-UT

CM415, CM519 Series 32.768kHz Crystals

Specifications:
- **Frequency:** 32.768kHz
- **Frequency Tolerance:** ±20ppm
- **Operating Temperature:** - 40°C ~ 85°C
- **Storage Temperature:** - 55°C ~ 125°C
- **Equivalent Series Resistance (ESR):** 70kΩ Max.
- **Load Capacitance:** 12.5pF
- **Drive Level:** 1μW Max.
- **Insulation Resistance:** 500MΩ Min.
- **Aging (First Year):** ±5ppm Max. @ 25°C

Fig. 1

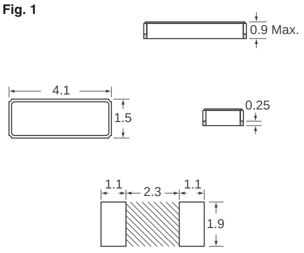

Fig. 2

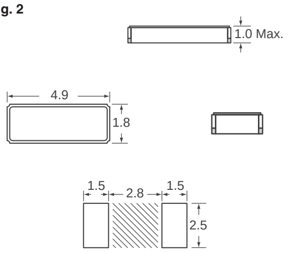

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Citizen Part No.
1	300-8193-1-ND	2.10	1.80	1.35	300-8193-2-ND	1092.00/M	CM415-32.768KDZF-UT
2	300-8194-1-ND	1.75	1.50	1.13	300-8194-2-ND	910.00/M	CM519-32.768KDZF-UT

CM200S Series 32.768kHz Crystals

Specifications:
- **Frequency:** 32.768kHz
- **Frequency Tolerance:** ±20ppm
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Equivalent Series Resistance:** 50kΩ Max.
- **Drive Level:** 1μW Max.
- **Insulation Resistance:** 500MΩ Min.
- **Aging (First Year):** ±3ppm Max.

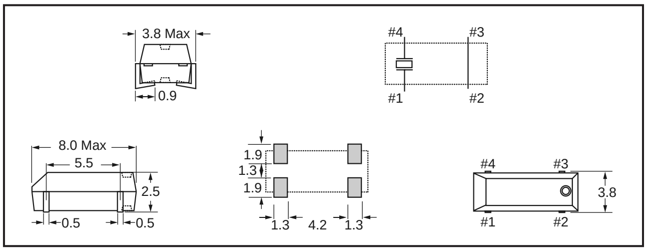

Load Cap.	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Citizen Part No.
6.0pF	300-2034-1-ND	.88	.75	.57	300-2034-2-ND	410.00/M	CM200S32.768KDZBTR
NEW! RoHS Compliant NEW!							
6.0pF	300-8317-1-ND	.88	.75	.57	300-8317-2-ND	410.00/M	CM200S32.768KDZB-UT
12.5pF	300-8305-1-ND	.88	.75	.57	300-8305-2-ND	455.00/M	CM200S32.768KDZF-UT

CITIZEN™

CM250S Series Quartz Crystals

Specifications:
• **Frequency Tolerance:** ±30ppm • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Load Capacitance:** 12.5pF • **Shunt Capacitance:** .8pF ~ 1.7pF • **Drive Level:** 1μW Max. • **Insulation Resistance:** 500MΩ Min. • **Aging (First Year):** ±5ppm Max.

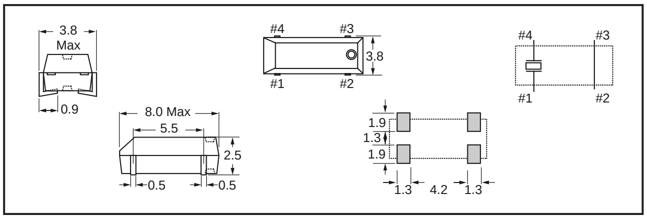

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Citizen Part No.
32.000	300-2007-1-ND	1.65	1.35	1.20	300-2007-2-ND	864.00/M	CM250S32.000KAZFT
40.000	300-2015-1-ND	1.65	1.35	1.20	—	—	CM250S40.000KAZFT
60.000	300-2018-1-ND	1.65	1.35	1.20	300-2018-2-ND	864.00/M	CM250S60.000KAZFT
60.005	300-2019-1-ND	1.65	1.35	1.20	300-2019-2-ND	864.00/M	CM250S60.005KAZFT
65.536	300-2020-1-ND	1.65	1.35	1.20	300-2020-2-ND	864.00/M	CM250S65.536KAZFT
75.000	300-2021-1-ND	1.65	1.35	1.20	300-2021-2-ND	864.00/M	CM250S75.000KAZFT
76.790	300-2022-1-ND	1.65	1.35	1.20	300-2022-2-ND	864.00/M	CM250S76.790KAZFT
76.800	300-2023-1-ND	1.65	1.35	1.20	—	—	CM250S76.800KAZFT
76.810	300-2024-1-ND	1.65	1.35	1.20	300-2024-2-ND	864.00/M	CM250S76.810KAZFT
77.500	300-2025-1-ND	1.65	1.35	1.20	300-2025-2-ND	864.00/M	CM250S77.500KAZFT
77.503	300-2026-1-ND	1.65	1.35	1.20	300-2026-2-ND	864.00/M	CM250S77.503KAZFT
96.000	300-2029-1-ND	1.65	1.35	1.20	—	—	CM250S96.000KAZFT
100.000	300-2030-1-ND	1.65	1.35	1.20	—	—	CM250S100.000KAZFT
NEW! RoHS Compliant NEW!							
32.000	300-8309-1-ND	1.65	1.35	1.20	300-8309-2-ND	864.00/M	CM250S32.000KAZF-UT
40.000	300-8310-1-ND	1.65	1.35	1.20	300-8310-2-ND	864.00/M	CM250S40.000KAZF-UT
60.000	300-8311-1-ND	1.65	1.35	1.20	300-8311-2-ND	864.00/M	CM250S60.000KAZF-UT
65.536	300-8312-1-ND	1.65	1.35	1.20	300-8312-2-ND	864.00/M	CM250S65.536KAZF-UT
75.000	300-8313-1-ND	1.65	1.35	1.20	300-8313-2-ND	864.00/M	CM250S75.000KAZF-UT
76.800	300-8314-1-ND	1.65	1.35	1.20	300-8314-2-ND	864.00/M	CM250S76.800KAZF-UT
96.000	300-8315-1-ND	1.65	1.35	1.20	300-8315-2-ND	864.00/M	CM250S96.000KAZF-UT
100.000	300-8316-1-ND	1.65	1.35	1.20	300-8316-2-ND	864.00/M	CM250S100.000KAZF-UT

HCM49 Series Surface Mount Crystals

Specifications:

- **Frequency Tolerance:** ±30ppm over operating temperature range
- **Frequency/Temperature**: ±50ppm, -10°C ~ 60°C
- **Operating Temperature:** -40°C ~ 85°C
- **Storage Temperature:** -55°C ~ 125°C
- **Load Capacitance:** 18.0pF
- **Shunt Capacitance:** 7pF Max. ~ 100μW
- **Insulation Resistance:** 500MΩ Min.
- **Aging (First Year):** ±5ppm Max.

Equivalent Series Resistance (ESR, R1) (Ω Max.)

Frequency	ESR
3.5MHz ≤ fo < 4.0MHz	200
4.0MHz ≤ fo < 6.0MHz	150
6.0MHz ≤ fo < 10.0MHz	100
10.0MHz ≤ fo < 14.0MHz	80
14.0MHz ≤ fo ≤ 30.0MHz	50
30.0MHz ≤ fo ≤ 36.0MHz	140
36.0MHz ≤ fo ≤ 50.0MHz	100

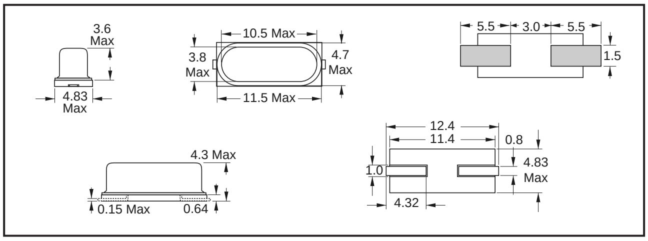

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Citizen Part No.
4.433619	300-6107-1-ND	.90	.78	.68	300-6107-2-ND	420.00	HCM49-4.433619MABJT
4.915200	300-6108-1-ND	.90	.78	.68	300-6108-2-ND	420.00	HCM49-4.9152MABJT
5.000000	300-6109-1-ND	.90	.78	.68	—	—	HCM49-5.000MABJT
5.068800	300-6110-1-ND	.90	.78	.68	—	—	HCM49-5.0688MABJT
5.990400	300-6111-1-ND	.90	.78	.68	300-6111-2-ND	420.00	HCM49-5.9904MABJT
6.500000	300-6114-1-ND	.90	.78	.68	300-6114-2-ND	420.00	HCM49-6.500MABJT
8.000000	300-6117-1-ND	.75	.65	.57	300-6117-2-ND	350.00	HCM49-8.000MABJT
9.000000	300-6118-1-ND	.90	.78	.68	300-6118-2-ND	420.00	HCM49-9.000MABJT
10.240000	300-6122-1-ND	.90	.78	.68	300-6122-2-ND	420.00	HCM49-10.240MABJT
11.000000	300-6123-1-ND	.90	.78	.68	—	—	HCM49-11.000MABJT
11.059200	300-6124-1-ND	.90	.78	.68	300-6124-2-ND	420.00	HCM49-11.0592MABJT
11.520000	300-6125-1-ND	.90	.78	.68	300-6125-2-ND	420.00	HCM49-11.520MABJT
12.000393	300-6128-1-ND	.90	.78	.68	300-6128-2-ND	420.00	HCM49-12.000393MABJT
14.318180	300-6130-1-ND	.90	.78	.68	300-6130-2-ND	420.00	HCM49-14.31818MABJT
15.000000	300-6132-1-ND	.90	.78	.68	—	—	HCM49-15.000MABJT
16.000312	300-6135-1-ND	.90	.78	.68	300-6135-2-ND	420.00	HCM49-16.000312MABJT
16.257000	300-6136-1-ND	.90	.78	.68	300-6136-2-ND	420.00	HCM49-16.257MABJT
16.384000	300-6137-1-ND	.90	.78	.68	300-6137-2-ND	420.00	HCM49-16.384MABJT
18.000000	300-6139-1-ND	.90	.78	.68	—	—	HCM49-18.000MABJT
20.000000	300-6142-1-ND	.90	.78	.68	300-6142-2-ND	420.00	HCM49-20.000MABJT
21.477270	300-6143-1-ND	.90	.78	.68	—	—	HCM49-21.47727MABJT
24.000000	300-6145-1-ND	.90	.78	.68	300-6145-2-ND	420.00	HCM49-24.000MABJT
24.000140	300-6146-1-ND	.90	.78	.68	300-6146-2-ND	420.00	HCM49-24.00014MABJT
25.175000	300-6149-1-ND	.90	.78	.68	300-6149-2-ND	420.00	HCM49-25.175MABJT
32.000000	300-6153-1-ND	.90	.78	.68	300-6153-2-ND	420.00	HCM49-32.000MABJT
33.868800	300-6156-1-ND	.90	.78	.68	300-6156-2-ND	420.00	HCM49-33.8688MABJT
40.000000	300-6157-1-ND	.90	.78	.68	300-6157-2-ND	420.00	HCM49-40.000MABJT
49.152000	300-6159-1-ND	.90	.78	.68	300-6159-2-ND	420.00	HCM49-49.152MABJT
NEW! RoHS Compliant NEW!							
3.579545	300-8524-1-ND	.90	.78	.68	300-8524-2-ND	420.00	HCM49-3.579545MABJ-UT
3.686400	300-8525-1-ND	.90	.78	.68	300-8525-2-ND	420.00	HCM49-3.6864MABJ-UT
4.000000	300-8526-1-ND	.90	.78	.68	300-8526-2-ND	420.00	HCM49-4.000MABJ-UT
4.032000	300-8527-1-ND	.90	.78	.68	300-8527-2-ND	420.00	HCM49-4.032MABJ-UT
4.096000	300-8528-1-ND	.90	.78	.68	300-8528-2-ND	420.00	HCM49-4.096MABJ-UT
4.194304	300-8529-1-ND	.90	.78	.68	300-8529-2-ND	420.00	HCM49-4.194304MABJ-UT
4.433619	300-8530-1-ND	.90	.78	.68	300-8530-2-ND	420.00	HCM49-4.433619MABJ-UT
4.915200	300-8531-1-ND	.90	.78	.68	300-8531-2-ND	420.00	HCM49-4.9152MABJ-UT
5.000000	300-8532-1-ND	.90	.78	.68	300-8532-2-ND	420.00	HCM49-5.000MABJ-UT
5.068800	300-8533-1-ND	.90	.78	.68	300-8533-2-ND	420.00	HCM49-5.0688MABJ-UT
5.990400	300-8534-1-ND	.90	.78	.68	300-8534-2-ND	420.00	HCM49-5.9904MABJ-UT
6.000000	300-8535-1-ND	.90	.78	.68	300-8535-2-ND	420.00	HCM49-6.000MABJ-UT
6.144000	300-8536-1-ND	.90	.78	.68	300-8536-2-ND	420.00	HCM49-6.144MABJ-UT
6.500000	300-8537-1-ND	.90	.78	.68	300-8537-2-ND	420.00	HCM49-6.500MABJ-UT
7.372800	300-8538-1-ND	.90	.78	.68	300-8538-2-ND	420.00	HCM49-7.3728MABJ-UT
7.680000	300-8539-1-ND	.90	.78	.68	300-8539-2-ND	420.00	HCM49-7.680MABJ-UT
8.000000	300-8540-1-ND	.90	.78	.68	300-8540-2-ND	420.00	HCM49-8.000MABJ-UT
9.000000	300-8541-1-ND	.90	.78	.68	300-8541-2-ND	420.00	HCM49-9.000MABJ-UT
9.830400	300-8542-1-ND	.90	.78	.68	300-8542-2-ND	420.00	HCM49-9.8304MABJ-UT
10.000000	300-8543-1-ND	.90	.78	.68	300-8543-2-ND	420.00	HCM49-10.000MABJ-UT
10.240000	300-8544-1-ND	.90	.78	.68	300-8544-2-ND	420.00	HCM49-10.240MABJ-UT
11.000000	300-8545-1-ND	.90	.78	.68	300-8545-2-ND	420.00	HCM49-11.000MABJ-UT
11.059200	300-8546-1-ND	.90	.78	.68	300-8546-2-ND	420.00	HCM49-11.0592MABJ-UT
11.520000	300-8547-1-ND	.90	.78	.68	300-8547-2-ND	420.00	HCM49-11.520MABJ-UT
12.000000	300-8548-1-ND	.90	.78	.68	300-8548-2-ND	420.00	HCM49-12.000MABJ-UT
12.000393	300-8549-1-ND	.90	.78	.68	300-8549-2-ND	420.00	HCM49-12.000393MABJ-UT
12.288000	300-8550-1-ND	.90	.78	.68	300-8550-2-ND	420.00	HCM49-12.288MABJ-UT
13.500000	300-8579-1-ND	.90	.78	.68	300-8579-2-ND	420.00	HCM49-13.500MABJ-UT
14.318180	300-8551-1-ND	.90	.78	.68	300-8551-2-ND	420.00	HCM49-14.31818MABJ-UT
14.745600	300-8552-1-ND	.90	.78	.68	300-8552-2-ND	420.00	HCM49-14.7456MABJ-UT
15.000000	300-8553-1-ND	.90	.78	.68	300-8553-2-ND	420.00	HCM49-15.000MABJ-UT
15.360000	300-8554-1-ND	.90	.78	.68	300-8554-2-ND	420.00	HCM49-15.360MABJ-UT
16.000000	300-8555-1-ND	.90	.78	.68	300-8555-2-ND	420.00	HCM49-16.000MABJ-UT
16.000312	300-8556-1-ND	.90	.78	.68	300-8556-2-ND	420.00	HCM49-16.000312MABJ-UT
16.257000	300-8557-1-ND	.90	.78	.68	300-8557-2-ND	420.00	HCM49-16.257MABJ-UT
16.384000	300-8558-1-ND	.90	.78	.68	300-8558-2-ND	420.00	HCM49-16.384MABJ-UT
17.734475	300-8559-1-ND	.90	.78	.68	300-8559-2-ND	420.00	HCM49-17.734475MABJ-UT
18.000000	300-8560-1-ND	.90	.78	.68	300-8560-2-ND	420.00	HCM49-18.000MABJ-UT
18.432000	300-8561-1-ND	.90	.78	.68	300-8561-2-ND	420.00	HCM49-18.432MABJ-UT
19.660800	300-8562-1-ND	.90	.78	.68	300-8562-2-ND	420.00	HCM49-19.6608MABJ-UT
20.000000	300-8563-1-ND	.90	.78	.68	300-8563-2-ND	420.00	HCM49-20.000MABJ-UT
21.477270	300-8564-1-ND	.90	.78	.68	300-8564-2-ND	420.00	HCM49-21.47727MABJ-UT
22.118400	300-8565-1-ND	.90	.78	.68	300-8565-2-ND	420.00	HCM49-22.1184MABJ-UT
24.000000	300-8566-1-ND	.90	.78	.68	300-8566-2-ND	420.00	HCM49-24.000MABJ-UT
24.000140	300-8567-1-ND	.90	.78	.68	300-8567-2-ND	420.00	HCM49-24.00014MABJ-UT
24.576000	300-8568-1-ND	.90	.78	.68	300-8568-2-ND	420.00	HCM49-24.576MABJ-UT
25.000000	300-8569-1-ND	.90	.78	.68	300-8569-2-ND	420.00	HCM49-25.000MABJ-UT
25.175000	300-8570-1-ND	.90	.78	.68	300-8570-2-ND	420.00	HCM49-25.175MABJ-UT
27.000000	300-8571-1-ND	.90	.78	.68	300-8571-2-ND	420.00	HCM49-27.000MABJ-UT
28.636360	300-8572-1-ND	.90	.78	.68	300-8572-2-ND	420.00	HCM49-28.63636MABJ-UT
32.000000	300-8573-1-ND	.90	.78	.68	300-8573-2-ND	420.00	HCM49-32.000MABJ-UT
33.868800	300-8574-1-ND	.90	.78	.68	300-8574-2-ND	420.00	HCM49-33.8688MABJ-UT
40.000000	300-8575-1-ND	.90	.78	.68	300-8575-2-ND	420.00	HCM49-40.000MABJ-UT
48.000000	300-8576-1-ND	.90	.78	.68	300-8576-2-ND	420.00	HCM49-48.000MABJ-UT
49.152000	300-8577-1-ND	.90	.78	.68	300-8577-2-ND	420.00	HCM49-49.152MABJ-UT
50.000000	300-8578-1-ND	.90	.78	.68	300-8578-2-ND	420.00	HCM49-50.000MABJ-UT

CITIZEN™

Cylinder Type Crystals

Specifications:

- **Frequency Tolerance:** CFS Series: ±20ppm; CFV and CSA Series: ±30ppm
- **Frequency Temperature Characteristics:** CSA Series: ±50ppm (-10°C ~ 60°C)
- **Operating Temperature Range:** -20°C ~ 70°C
- **Storage Temperature Range:** -40°C ~ 85°C
- **Drive Level:** CFS and CFV Series: 1µW Max.; CSA Series: 100µW
- **Insulation Resistance:** 500MΩ Min.
- **Aging (first year):** CFS Series: ±3ppm Max.; CFV and CSA Series: ±5ppm Max.

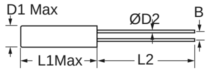

Series	Dimensions (mm) L1 max.	L2	D1 max.	D2	B
CFS145	5.1	4.3	1.5	0.2	0.45
CFS206	6.2	10	2.1	0.26	0.7
CFS308	8.2	10	3.1	0.35	1.1
CFV206	6.2	10	2.1	0.26	0.7
CSA310	10.5	10	3.2	0.32	1.1
CSA309	9	10	3.2	0.32	1.1

Equivalent Series Resistance (ESR, R1)

Frequency	ESR	Mode
3.5MHz ≤ fo < 4MHz	200	Fundamental
4MHz ≤ fo < 6MHz	150	
6MHz ≤ fo < 10MHz	100	
10MHz ≤ fo ≤ 30MHz	50	
30MHz < fo < 36MHz	100	3rd OT
36MHz ≤ fo < 66.6666MHz	80	

Series	Frequency	Load Cap.	Shunt Cap. (pF)	Digi-Key Part No.	Price Each 1	10	50	Citizen Part No.
CFV206	32.000000kHz	12.5pF	0.8 - 1.7	300-3007-ND	1.00	.90	.65	CFV206-32.000KAZF
	60.000000kHz	12.5pF	0.8 - 1.7	300-3018-ND	1.00	.90	.65	CFV206-60.000KAZF
	60.005000kHz	12.5pF	0.8 - 1.7	300-3019-ND	1.00	.90	.65	CFV206-60.005KAZF
	65.536000kHz	12.5pF	0.8 - 1.7	300-3020-ND	1.00	.90	.65	CFV206-65.536KAZF
	75.000000kHz	12.5pF	0.8 - 1.7	300-3021-ND	1.00	.90	.65	CFV206-75.000KAZF
	76.790000kHz	12.5pF	0.8 - 1.7	300-3022-ND	1.00	.90	.65	CFV206-76.790KAZF
	76.800000kHz	12.5pF	0.8 - 1.7	300-3023-ND	1.00	.90	.65	CFV206-76.800KAZF
	76.810000kHz	12.5pF	0.8 - 1.7	300-3024-ND	1.00	.90	.65	CFV206-76.810KAZF
	77.500000kHz	12.5pF	0.8 - 1.7	300-3025-ND	1.00	.90	.65	CFV206-77.500KAZF
	77.503000kHz	12.5pF	0.8 - 1.7	300-3026-ND	1.00	.90	.65	CFV206-77.503KAZF
	96.000000kHz	12.5pF	0.8 - 1.7	300-3029-ND	1.22	1.10	.79	CFV206-96.000KAZF
CSA309	4.915000MHz	18.0pF	5.0	300-5003-ND	.81	.69	.58	CSA309-4.915MABJ
	5.120000MHz	18.0pF	5.0	300-5004-ND	.81	.69	.58	CSA309-5.120MABJ
	6.000000MHz	18.0pF	5.0	300-5006-ND	.81	.69	.58	CSA309-6.000MABJ
	6.144000MHz	18.0pF	5.0	300-5007-ND	.81	.69	.58	CSA309-6.144MABJ
	7.680000MHz	18.0pF	5.0	300-5009-ND	.81	.69	.58	CSA309-7.680MABJ
	8.000156MHz	18.0pF	5.0	300-5011-ND	.81	.69	.58	CSA309-8.000156MABJ
	8.192000MHz	18.0pF	5.0	300-5012-ND	.81	.69	.58	CSA309-8.192MABJ
	9.216000MHz	18.0pF	5.0	300-5013-ND	.81	.69	.58	CSA309-9.216MABJ
	10.240000MHz	18.0pF	5.0	300-5017-ND	.81	.69	.58	CSA309-10.240MABJ
	11.000000MHz	18.0pF	5.0	300-5018-ND	.81	.69	.58	CSA309-11.000MABJ
	11.059200MHz	18.0pF	5.0	300-5019-ND	.81	.69	.58	CSA309-11.0592MABJ
	11.289600MHz	18.0pF	5.0	300-5020-ND	.81	.69	.58	CSA309-11.2896MABJ
	12.000000MHz	18.0pF	5.0	300-5021-ND	.81	.69	.58	CSA309-12.000MABJ
	12.288000MHz	18.0pF	5.0	300-5022-ND	.81	.69	.58	CSA309-12.288MABJ
	12.352000MHz	18.0pF	5.0	300-5023-ND	.81	.69	.58	CSA309-12.352MABJ
	12.500000MHz	18.0pF	5.0	300-5024-ND	.81	.69	.58	CSA309-12.500MABJ
	14.318180MHz	18.0pF	5.0	300-5026-ND	.81	.69	.58	CSA309-14.31818MABJ
	14.745600MHz	18.0pF	5.0	300-5027-ND	.81	.69	.58	CSA309-14.7456MABJ
	15.000000MHz	18.0pF	5.0	300-5028-ND	.81	.69	.58	CSA309-15.000MABJ
	15.360000MHz	18.0pF	5.0	300-5029-ND	.81	.69	.58	CSA309-15.360MABJ
	16.000312MHz	18.0pF	5.0	300-5031-ND	.81	.69	.58	CSA309-16.000312MABJ
	16.257000MHz	18.0pF	5.0	300-5032-ND	.81	.69	.58	CSA309-16.257MABJ
	16.934400MHz	18.0pF	5.0	300-5035-ND	.81	.69	.58	CSA309-16.9344MABJ
	17.734475MHz	18.0pF	5.0	300-5036-ND	.81	.69	.58	CSA309-17.734475MABJ
	18.000000MHz	18.0pF	5.0	300-5037-ND	.81	.69	.58	CSA309-18.000MABJ
	18.869000MHz	18.0pF	5.0	300-5039-ND	.81	.69	.58	CSA309-18.869MABJ
	20.480000MHz	18.0pF	5.0	300-5042-ND	.81	.69	.58	CSA309-20.480MABJ
	24.000000MHz	18.0pF	5.0	300-5044-ND	.81	.69	.58	CSA309-24.000MABJ
	25.000000MHz	18.0pF	5.0	300-5046-ND	.81	.69	.58	CSA309-25.000MABJ
	25.175000MHz	18.0pF	5.0	300-5047-ND	.81	.69	.58	CSA309-25.175MABJ
	28.000000MHz	18.0pF	5.0	300-5049-ND	.81	.69	.58	CSA309-28.000MABJ
	28.636360MHz	18.0pF	5.0	300-5051-ND	.81	.69	.58	CSA309-28.63636MABJ
	29.491200MHz	18.0pF	5.0	300-5052-ND	.81	.69	.58	CSA309-29.4912MABJ
	32.000000MHz	18.0pF	5.0	300-5054-ND	.81	.69	.58	CSA309-32.000MABJ
	32.768000MHz	18.0pF	5.0	300-5055-ND	.81	.69	.58	CSA309-32.768MABJ
	33.000000MHz	18.0pF	5.0	300-5056-ND	.81	.69	.58	CSA309-33.000MABJ
	33.333300MHz	18.0pF	5.0	300-5057-ND	.81	.69	.58	CSA309-33.3333MABJ
	33.868800MHz	18.0pF	5.0	300-5058-ND	.81	.69	.58	CSA309-33.8688MABJ
	40.000000MHz	18.0pF	5.0	300-5060-ND	.81	.69	.58	CSA309-40.000MABJ
	48.000000MHz	18.0pF	5.0	300-5061-ND	.81	.69	.58	CSA309-48.000MABJ
	49.152000MHz	18.0pF	5.0	300-5062-ND	.81	.69	.58	CSA309-49.152MABJ

Series	Frequency	Load Cap.	Shunt Cap. (pF)	Digi-Key Part No.	Price Each 1	10	50	Citizen Part No.
CSA309	53.125000MHz	18.0pF	5.0	300-5064-ND	.81	.69	.58	CSA309-53.125MABJ
	60.000000MHz	18.0pF	5.0	300-5065-ND	.81	.69	.58	CSA309-60.000MABJ
	64.000000MHz	18.0pF	5.0	300-5066-ND	.81	.69	.58	CSA309-64.000MABJ
	66.666600MHz	18.0pF	5.0	300-5067-ND	.81	.69	.58	CSA309-66.6666MABJ
CSA310	3.579545MHz	18.0pF	5.0	300-1008-ND	.81	.69	.58	CSA310-3.579545MABJ
	3.686400MHz	18.0pF	5.0	300-1009-ND	.81	.69	.58	CSA310-3.6864MABJ
NEW! RoHS Compliant NEW!								
CFS145	32.768000kHz	12.5pF	1	300-8304-ND	.77	.66	.55	CFS145-32.768KDZF-UB
CFS206	32.768000kHz	6.0pF	1.35	300-8301-ND	.28	.24	.16	CFS206-32.768KDZB-UB
	32.768000kHz	12.5pF	1.35	300-8303-ND	.28	.24	.16	CFS206-32.768KDZF-UB
CFS308	32.768000kHz	12.5pF	1.6	300-8302-ND	.28	.24	.16	CFS308-32.768KDZF-UB
CFV206	32.000000kHz	12.5pF	0.8 - 1.7	300-8402-ND	1.00	.90	.65	CFV206-32.000KAZF-UB
	40.000000kHz	12.5pF	0.8 - 1.7	300-8403-ND	1.00	.90	.65	CFV206-40.000KAZF-UB
	60.000000kHz	12.5pF	0.8 - 1.7	300-8404-ND	1.00	.90	.65	CFV206-60.000KAZF-UB
	65.536000kHz	12.5pF	0.8 - 1.7	300-8405-ND	1.00	.90	.65	CFV206-65.536KAZF-UB
	75.000000kHz	12.5pF	0.8 - 1.7	300-8406-ND	1.00	.90	.65	CFV206-75.000KAZF-UB
	76.800000kHz	12.5pF	0.8 - 1.7	300-8407-ND	1.00	.90	.65	CFV206-76.800KAZF-UB
	77.503000kHz	12.5pF	0.8 - 1.7	300-8408-ND	1.00	.90	.65	CFV206-77.503KAZF-UB
	96.000000kHz	12.5pF	0.8 - 1.7	300-8409-ND	1.22	1.10	.79	CFV206-96.000KAZF-UB
	100.000000kHz	12.5pF	0.8 - 1.7	300-8410-ND	1.00	.90	.65	CFV206-100.000KAZF-UB
	153.600000kHz	12.5pF	0.8 - 1.7	300-8411-ND	1.00	.90	.65	CFV206-153.600KAZF-UB
CSA309	4.096000MHz	18.0pF	5.0	300-8412-ND	.81	.69	.58	CSA309-4.096MABJ-UB
	4.800000MHz	18.0pF	5.0	300-8413-ND	.81	.69	.58	CSA309-4.800MABJ-UB
	4.915000MHz	18.0pF	5.0	300-8414-ND	.81	.69	.58	CSA309-4.915MABJ-UB
	5.120000MHz	18.0pF	5.0	300-8415-ND	.81	.69	.58	CSA309-5.120MABJ-UB
	5.529600MHz	18.0pF	5.0	300-8416-ND	.81	.69	.58	CSA309-5.5296MABJ-UB
	6.000000MHz	18.0pF	5.0	300-8417-ND	.81	.69	.58	CSA309-6.000MABJ-UB
	6.144000MHz	18.0pF	5.0	300-8418-ND	.81	.69	.58	CSA309-6.144MABJ-UB
	7.372800MHz	18.0pF	5.0	300-8419-ND	.81	.69	.58	CSA309-7.3728MABJ-UB
	7.680000MHz	18.0pF	5.0	300-8420-ND	.81	.69	.58	CSA309-7.680MABJ-UB
	8.000000MHz	18.0pF	5.0	300-8421-ND	.81	.69	.58	CSA309-8.000MABJ-UB
	8.192000MHz	18.0pF	5.0	300-8422-ND	.81	.69	.58	CSA309-8.192MABJ-UB
	9.216000MHz	18.0pF	5.0	300-8423-ND	.81	.69	.58	CSA309-9.216MABJ-UB
	9.600000MHz	18.0pF	5.0	300-8424-ND	.81	.69	.58	CSA309-9.600MABJ-UB
	9.830400MHz	18.0pF	5.0	300-8425-ND	.81	.69	.58	CSA309-9.8304MABJ-UB
	10.000000MHz	18.0pF	5.0	300-8426-ND	.81	.69	.58	CSA309-10.000MABJ-UB
	10.240000MHz	18.0pF	5.0	300-8427-ND	.81	.69	.58	CSA309-10.240MABJ-UB
	11.059200MHz	18.0pF	5.0	300-8428-ND	.81	.69	.58	CSA309-11.0592MABJ-UB
	11.289600MHz	18.0pF	5.0	300-8429-ND	.81	.69	.58	CSA309-11.2896MABJ-UB
	12.000000MHz	18.0pF	5.0	300-8430-ND	.81	.69	.58	CSA309-12.000MABJ-UB
	12.288000MHz	18.0pF	5.0	300-8431-ND	.81	.69	.58	CSA309-12.288MABJ-UB
	12.500000MHz	18.0pF	5.0	300-8432-ND	.81	.69	.58	CSA309-12.500MABJ-UB
	13.500000MHz	18.0pF	5.0	300-8433-ND	.81	.69	.58	CSA309-13.500MABJ-UB
	14.318180MHz	18.0pF	5.0	300-8434-ND	.81	.69	.58	CSA309-14.31818MABJ-UB
	14.745600MHz	18.0pF	5.0	300-8435-ND	.81	.69	.58	CSA309-14.7456MABJ-UB
	15.000000MHz	18.0pF	5.0	300-8436-ND	.81	.69	.58	CSA309-15.000MABJ-UB
	16.000000MHz	18.0pF	5.0	300-8437-ND	.81	.69	.58	CSA309-16.000MABJ-UB
	16.000312MHz	18.0pF	5.0	300-8438-ND	.81	.69	.58	CSA309-16.000312MABJ-UB
	16.384000MHz	18.0pF	5.0	300-8439-ND	.81	.69	.58	CSA309-16.384MABJ-UB
	16.667000MHz	18.0pF	5.0	300-8440-ND	.81	.69	.58	CSA309-16.667MABJ-UB
	16.934400MHz	18.0pF	5.0	300-8441-ND	.81	.69	.58	CSA309-16.9344MABJ-UB
	17.734475MHz	18.0pF	5.0	300-8442-ND	.81	.69	.58	CSA309-17.734475MABJ-UB
	18.000000MHz	18.0pF	5.0	300-8443-ND	.81	.69	.58	CSA309-18.000MABJ-UB
	18.432000MHz	18.0pF	5.0	300-8444-ND	.81	.69	.58	CSA309-18.432MABJ-UB
	19.660800MHz	18.0pF	5.0	300-8445-ND	.81	.69	.58	CSA309-19.6608MABJ-UB
	20.000000MHz	18.0pF	5.0	300-8446-ND	.81	.69	.58	CSA309-20.000MABJ-UB
	20.480000MHz	18.0pF	5.0	300-8447-ND	.81	.69	.58	CSA309-20.480MABJ-UB
	22.118000MHz	18.0pF	5.0	300-8448-ND	.81	.69	.58	CSA309-22.1184MABJ-UB
	24.000000MHz	18.0pF	5.0	300-8449-ND	.81	.69	.58	CSA309-24.000MABJ-UB
	24.576000MHz	18.0pF	5.0	300-8450-ND	.81	.69	.58	CSA309-24.576MABJ-UB
	25.000000MHz	18.0pF	5.0	300-8451-ND	.81	.69	.58	CSA309-25.000MABJ-UB
	27.000000MHz	18.0pF	5.0	300-8452-ND	.81	.69	.58	CSA309-27.000MABJ-UB
	28.000000MHz	18.0pF	5.0	300-8453-ND	.81	.69	.58	CSA309-28.000MABJ-UB
	28.322000MHz	18.0pF	5.0	300-8454-ND	.81	.69	.58	CSA309-28.322MABJ-UB
	28.636360MHz	18.0pF	5.0	300-8455-ND	.81	.69	.58	CSA309-28.63636MABJ-UB
	29.491200MHz	18.0pF	5.0	300-8456-ND	.81	.69	.58	CSA309-29.4912MABJ-UB
	30.000000MHz	18.0pF	5.0	300-8457-ND	.81	.69	.58	CSA309-30.000MABJ-UB
	32.000000MHz	18.0pF	5.0	300-8458-ND	.81	.69	.58	CSA309-32.000MABJ-UB
	32.768000MHz	18.0pF	5.0	300-8459-ND	.81	.69	.58	CSA309-32.768MABJ-UB
	33.000000MHz	18.0pF	5.0	300-8460-ND	.81	.69	.58	CSA309-33.000MABJ-UB
	33.333300MHz	18.0pF	5.0	300-8461-ND	.81	.69	.58	CSA309-33.3333MABJ-UB
	33.868800MHz	18.0pF	5.0	300-8462-ND	.81	.69	.58	CSA309-33.8688MABJ-UB
	40.000000MHz	18.0pF	5.0	300-8463-ND	.81	.69	.58	CSA309-40.000MABJ-UB
	48.000000MHz	18.0pF	5.0	300-8464-ND	.81	.69	.58	CSA309-48.000MABJ-UB
	49.152000MHz	18.0pF	5.0	300-8465-ND	.81	.69	.58	CSA309-49.152MABJ-UB
	64.000000MHz	18.0pF	5.0	300-8466-ND	.81	.69	.58	CSA309-64.000MABJ-UB
CSA310	3.579545MHz	18.0pF	5.0	300-8306-ND	.81	.69	.58	CSA310-3.579545MABJ-UB
	3.686400MHz	18.0pF	5.0	300-8307-ND	.81	.69	.58	CSA310-3.6864MABJ-UB
	4.000000MHz	18.0pF	5.0	300-8308-ND	.81	.69	.58	CSA310-4.000MABJ-UB

CITIZEN™

HC49US Series Through-Hole Crystals

Specifications:
• **Frequency Tolerance:** ±30ppm • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C • **Load Capacitance:** 18.0pF • **Shunt Capacitance:** 7pF Max. • **Drive Level:** 100µW Max. • **Insulation Resistance:** 500MΩ Min. • **Aging (First Year):** ±5ppm Max.

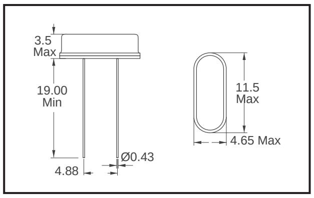

Equivalent Series Resistance (ESR, R1) (Ω Max.)

Frequency	ESR
3.5MHz ≤ fo < 4.0MHz	200
4.0MHz ≤ fo < 6.0MHz	150
6.0MHz ≤ fo < 10.0MHz	100
10.0MHz ≤ fo < 14.0MHz	80
14.0MHz ≤ fo ≤ 30.0MHz	50
30.0MHz ≤ fo ≤ 36.0MHz	140
36.0MHz ≤ fo ≤ 50.0MHz	100

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Citizen Part No.
4.000000	300-6003-ND	.70	.60	.55	HC49US4.000MABJ
4.032000	300-6004-ND	.70	.60	.55	HC49US4.032MABJ
4.096000	300-6005-ND	.70	.60	.55	HC49US4.096MABJ
4.433619	300-6007-ND	.70	.60	.55	HC49US4.433619MABJ
5.000000	300-6009-ND	.70	.60	.55	HC49US5.000MABJ
5.068800	300-6010-ND	.70	.60	.55	HC49US5.0688MABJ
5.990400	300-6011-ND	.70	.60	.55	HC49US5.9904MABJ
6.000000	300-6012-ND	.70	.60	.55	HC49US6.000MABJ
6.500000	300-6014-ND	.70	.60	.55	HC49US6.500MABJ
7.680000	300-6016-ND	.70	.60	.55	HC49US7.680MABJ
8.000000	300-6017-ND	.70	.60	.55	HC49US8.000MABJ
9.216000	300-6019-ND	.70	.60	.55	HC49US9.216MABJ
9.830400	300-6020-ND	.70	.60	.55	HC49US9.8304MABJ
10.240000	300-6022-ND	.70	.60	.55	HC49US10.240MABJ
11.059200	300-6024-ND	.70	.60	.55	HC49US11.0592MABJ
11.520000	300-6025-ND	.70	.60	.55	HC49US11.520MABJ
12.000393	300-6028-ND	.70	.60	.55	HC49US12.000393MABJ
14.318180	300-6030-ND	.70	.60	.55	HC49US14.31818MABJ
14.745600	300-6031-ND	.70	.60	.55	HC49US14.7456MABJ
15.000000	300-6032-ND	.70	.60	.55	HC49US15.000MABJ
16.000312	300-6035-ND	.70	.60	.55	HC49US16.000312MABJ
16.257000	300-6036-ND	.70	.60	.55	HC49US16.257MABJ
19.660800	300-6041-ND	.70	.60	.55	HC49US19.6608MABJ
20.000000	300-6042-ND	.70	.60	.55	HC49US20.000MABJ
21.477270	300-6043-ND	.70	.60	.55	HC49US21.47727MABJ
22.118400	300-6044-ND	.70	.60	.55	HC49US22.1184MABJ
24.000140	300-6046-ND	.70	.60	.55	HC49US24.00014MABJ
25.175000	300-6049-ND	.70	.60	.55	HC49US25.175MABJ
27.000000	300-6050-ND	.70	.60	.55	HC49US27.000MABJ
33.868800	300-6056-ND	.70	.60	.55	HC49US33.8688MABJ
40.000000	300-6057-ND	.70	.60	.55	HC49US40.000MABJ
48.000000	300-6058-ND	.70	.60	.55	HC49US48.000MABJ
50.000000	300-6060-ND	.70	.60	.55	HC49US50.000MABJ
NEW! RoHS Compliant NEW!					
3.579545	300-8467-ND	.70	.60	.55	HC49US3.579545MABJ-UB
3.686400	300-8468-ND	.70	.60	.55	HC49US3.6864MABJ-UB
4.000000	300-8469-ND	.70	.60	.55	HC49US4.000MABJ-UB
4.032000	300-8470-ND	.70	.60	.55	HC49US4.032MABJ-UB
4.096000	300-8471-ND	.70	.60	.55	HC49US4.096MABJ-UB
4.194304	300-8472-ND	.70	.60	.55	HC49US4.194304MABJ-UB
4.433619	300-8473-ND	.70	.60	.55	HC49US4.433619MABJ-UB
4.915200	300-8474-ND	.70	.60	.55	HC49US4.9152MABJ-UB
5.000000	300-8475-ND	.70	.60	.55	HC49US5.000MABJ-UB
5.068800	300-8476-ND	.70	.60	.55	HC49US5.0688MABJ-UB
5.990400	300-8477-ND	.70	.60	.55	HC49US5.9904MABJ-UB
6.000000	300-8478-ND	.70	.60	.55	HC49US6.000MABJ-UB
6.144000	300-8479-ND	.70	.60	.55	HC49US6.144MABJ-UB
6.500000	300-8480-ND	.70	.60	.55	HC49US6.500MABJ-UB
7.372800	300-8481-ND	.70	.60	.55	HC49US7.3728MABJ-UB
7.680000	300-8482-ND	.70	.60	.55	HC49US7.680MABJ-UB
8.000000	300-8483-ND	.70	.60	.55	HC49US8.000MABJ-UB
9.000000	300-8484-ND	.70	.60	.55	HC49US9.000MABJ-UB
NEW! RoHS Compliant NEW! (cont.)					
9.216000	300-8485-ND	.70	.60	.55	HC49US9.216MABJ-UB
9.830400	300-8486-ND	.70	.60	.55	HC49US9.8304MABJ-UB
10.000000	300-8487-ND	.70	.60	.55	HC49US10.000MABJ-UB
10.240000	300-8488-ND	.70	.60	.55	HC49US10.240MABJ-UB
11.000000	300-8489-ND	.70	.60	.55	HC49US11.00MABJ-UB
11.059200	300-8490-ND	.70	.60	.55	HC49US11.0592MABJ-UB
11.520000	300-8491-ND	.70	.60	.55	HC49US11.520MABJ-UB
12.000000	300-8492-ND	.70	.60	.55	HC49US12.000MABJ-UB
12.000393	300-8493-ND	.70	.60	.55	HC49US12.000393MABJ-UB
12.288000	300-8494-ND	.70	.60	.55	HC49US12.288MABJ-UB
13.500000	300-8523-ND	.70	.60	.55	HC49US13.500MABJ-UB
14.318180	300-8495-ND	.70	.60	.55	HC49US14.31818MABJ-UB
14.745600	300-8496-ND	.70	.60	.55	HC49US14.7456MABJ-UB
15.000000	300-8497-ND	.70	.60	.55	HC49US15.000MABJ-UB
15.360000	300-8498-ND	.70	.60	.55	HC49US15.360MABJ-UB
16.000000	300-8499-ND	.70	.60	.55	HC49US16.000MABJ-UB
16.000312	300-8500-ND	.70	.60	.55	HC49US16.000312MABJ-UB
16.257000	300-8501-ND	.70	.60	.55	HC49US16.257MABJ-UB
16.384000	300-8502-ND	.70	.60	.55	HC49US16.384MABJ-UB
17.734475	300-8503-ND	.70	.60	.55	HC49US17.734475MABJ-UB
18.000000	300-8504-ND	.70	.60	.55	HC49US18.000MABJ-UB
18.432000	300-8505-ND	.70	.60	.55	HC49US18.432MABJ-UB
19.660800	300-8506-ND	.70	.60	.55	HC49US19.6608MABJ-UB
20.000000	300-8507-ND	.70	.60	.55	HC49US20.000MABJ-UB
21.477270	300-8508-ND	.70	.60	.55	HC49US21.47727MABJ-UB
22.118400	300-8509-ND	.70	.60	.55	HC49US22.1184MABJ-UB
24.000000	300-8510-ND	.70	.60	.55	HC49US24.000MABJ-UB
24.000140	300-8511-ND	.70	.60	.55	HC49US24.00014MABJ-UB
24.576000	300-8512-ND	.70	.60	.55	HC49US24.576MABJ-UB
25.000000	300-8513-ND	.70	.60	.55	HC49US25.000MABJ-UB
25.175000	300-8514-ND	.70	.60	.55	HC49US25.175MABJ-UB
27.000000	300-8515-ND	.70	.60	.55	HC49US27.000MABJ-UB
28.224000	300-8516-ND	.70	.60	.55	HC49US28.224MABJ-UB
28.636360	300-8517-ND	.70	.60	.55	HC49US28.63636MABJ-UB
32.000000	300-8518-ND	.70	.60	.55	HC49US32.000MABJ-UB
33.868800	300-8519-ND	.70	.60	.55	HC49US33.8688MABJ-UB
40.000000	300-8520-ND	.70	.60	.55	HC49US40.000MABJ-UB
48.000000	300-8521-ND	.70	.60	.55	HC49US48.000MABJ-UB
50.000000	300-8522-ND	.70	.60	.55	HC49US50.000MABJ-UB

CSX-750P Series Programmable Oscillator

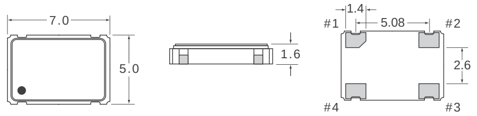

Pin Connection	
1	OE, ST
2	Gnd
3	Out
4	Vdd

How to Select Base Number:
# 1 = Select Supply Voltage, Output and Function
# 2 = Select Frequency Stability / Operating Temperature
# 3 = Select Packaging *(leave last two boxes blank for Tube packaging)*.

Call Digi-Key with your selected Base Part Number, and a Sales Representative will enter your desired frequency. Parts come marked with Manufacture Date Lot Code only. Once programmed, parts are non-cancelable, non-returnable!

Example Part Number:
CSX750 □□□□□ - ND

#1

	Supply Voltage	Output	Function
PD	5.0	CMOS	Standby
PC	5.0	CMOS	Output Enable
PJ	3.3	CMOS	Standby
PB	3.3	CMOS	Output Enable
PK	5.0	TTL	Standby
PT	5.0	TTL	Output Enable

#2

	Frequency Stability/ Operating Temperature
C	±100ppm @ -20°C ~ 70°C
B	±50ppm @ -20°C ~ 70°C
F	±100ppm @ -40°C ~ 85°C

Frequency:
3.3V = 1.000 ~ 100.000 MHz
5.0V = 1.000 ~ 125.000 MHz

#3

	Packaging
TR	Tape and Reel

For Tube packaging, leave last two boxes blank.

Digi-Key Part No.	Tube Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 100	500	1,000
CSX750□□□-ND	4.73	4.05	2.97	CSX750□□□□□-ND	270.00	1012.50	1800.00
Blank Oscillator 5x7mm SMD							
CSX-750P1P-ND	3.60	3.33	2.97	—	—	—	—

Programmable Oscillators

The ability to create a custom oscillator to certain specifications provides engineers with a great deal of flexibility. They allow for last minute changes in circuitry or design. ECS Blanks are “Twice Programmable”. This is a cost saving feature which allows you to reprogram the same part to different specifications. ECS Programmable Oscillators are available in four different package styles: 3.2 x 5.0 SMD, 5.0 x 7.5 SMD, Half Size Dip and Full Size Dip Package. Frequency ranges are available from 1MHz ~ 125MHz in 3.3V and 1MHz ~ 150MHz in 5V* and in ±50ppm** and ±100ppm Frequency Stability Options.

*3.2 x 5.0 SMD package: Frequency range 1MHz ~ 125MHz in 5V.

**±50ppm not available in Extended Temperature Range Option.

Fig. 1

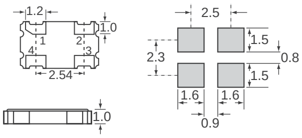

Pin Connection	
1	Tri-State
2	Gnd
3	Output
4	Vcc

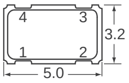

ECS-P53 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +0.7V Min.	#3 = Output
Pin #1 = +0.2V Max.	#3 = High Impedance
ECS-P55 (5V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +2.0V Min.	#3 = Output
Pin #1 = +0.8V Max.	#3 = High Impedance

Fig. 2

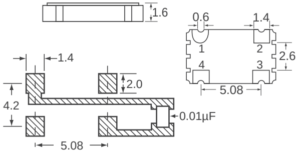

Pin Connection	
1	Tri-State
2	Gnd
3	Output
4	Vcc

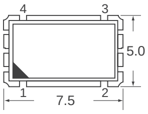

ECS-P73 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +0.7V Min.	#3 = Output
Pin #1 = +0.2V Max.	#3 = High Impedance
ECS-P75 (5V) Tri-State Control Voltage	
Pin #1 = Open	#3 = Output
Pin #1 = +2.0V Min.	#3 = Output
Pin #1 = +0.8V Max.	#3 = High Impedance

Fig. 3

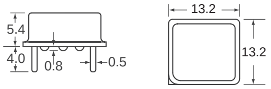

Pin Connection	
1	Tri-State
4	Gnd
5	Output
8	Vcc

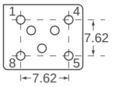

ECS-P83 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#5 = Output
Pin #1 = +0.7V Min.	#5 = Output
Pin #1 = +0.2V Max.	#5 = High Impedance
ECS-P85 (5V) Tri-State Control Voltage	
Pin #1 = Open	#5 = Output
Pin #1 = +2.0V Min.	#5 = Output
Pin #1 = +0.8V Max.	#5 = High Impedance

Fig. 4

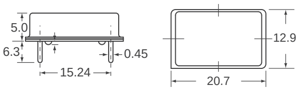

Pin Connection	
1	Tri-State
7	Gnd
8	Output
14	Vcc

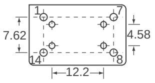

ECS-P143 (3.3V) Tri-State Control Voltage	
Pin #1 = Open	#8 = Output
Pin #1 = +0.7V Min.	#8 = Output
Pin #1 = +0.2V Max.	#8 = High Impedance
ECS-P145 (5V) Tri-State Control Voltage	
Pin #1 = Open	#8 = Output
Pin #1 = +2.0V Min.	#8 = Output
Pin #1 = +0.8V Max.	#8 = High Impedance

Fig.	Supply Voltage (V)	Frequency Tolerance	Operating Temperature	Case Style	Digi-Key † Part No.	Price Each 1	10	50	100
Surface (SMD, SMT) - RoHS Compliant									
1	3.3	±100ppm	-40°C ~ 85°C	3.2 x 5	ECS-P53-AN-ND	11.03	9.45	6.93	6.30
			-10°C ~ 70°C	3.2 x 5	ECS-P53-A-ND	11.03	9.45	6.93	6.30
		±50ppm	-10°C ~ 70°C	3.2 x 5	ECS-P53-B-ND	11.03	9.45	6.93	6.30
	5	±100ppm	-40°C ~ 85°C	3.2 x 5	ECS-P55-AN-ND	11.03	9.45	6.93	6.30
			-10°C ~ 70°C	3.2 x 5	ECS-P55-A-ND	11.03	9.45	6.93	6.30
		±50ppm	-10°C ~ 70°C	3.2 x 5	ECS-P55-B-ND	11.03	9.45	6.93	6.30
2	3.3	±100ppm	-40°C ~ 85°C	5 x 7	ECS-P73-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	5 x 7	ECS-P73-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	5 x 7	ECS-P73-B-ND	6.77	5.81	4.26	3.87
	5	±100ppm	-40°C ~ 85°C	5 x 7	ECS-P75-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	5 x 7	ECS-P75-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	5 x 7	ECS-P75-B-ND	6.77	5.81	4.26	3.87
Through Hole									
3	3.3	±100ppm	-40°C ~ 85°C	8 Pin DIP	ECS-P83-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	8 Pin DIP	ECS-P83-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	8 Pin DIP	ECS-P83-B-ND	6.77	5.81	4.26	3.87
	5	±100ppm	-40°C ~ 85°C	8 Pin DIP	ECS-P85-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	8 Pin DIP	ECS-P85-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	8 Pin DIP	ECS-P85-B-ND	6.77	5.81	4.26	3.87

Fig.	Supply Voltage (V)	Frequency Tolerance	Operating Temperature	Case Style	Digi-Key † Part No.	Price Each 1	10	50	100
Through Hole (Cont.)									
4	3.3	±100ppm	-40°C ~ 85°C	14 Pin DIP	ECS-P143-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	14 Pin DIP	ECS-P143-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	14 Pin DIP	ECS-P143-B-ND	6.77	5.81	4.26	3.87
	5	±100ppm	-40°C ~ 85°C	14 Pin DIP	ECS-P145-AN-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	14 Pin DIP	ECS-P145-A-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	14 Pin DIP	ECS-P145-B-ND	6.77	5.81	4.26	3.87
NEW! Through Hole - RoHS Compliant NEW!									
3	3.3	±100ppm	-40°C ~ 85°C	8 Pin DIP	ECS-P83-ANX-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	8 Pin DIP	ECS-P83-AX-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	8 Pin DIP	ECS-P83-BX-ND	6.77	5.81	4.26	3.87
	5	±100ppm	-40°C ~ 85°C	8 Pin DIP	ECS-P85-ANX-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	8 Pin DIP	ECS-P85-AX-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	8 Pin DIP	ECS-P85-BX-ND	6.77	5.81	4.26	3.87
4	3.3	±100ppm	-40°C ~ 85°C	14 Pin DIP	ECS-P143-ANX-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	14 Pin DIP	ECS-P143-AX-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	14 Pin DIP	ECS-P143-BX-ND	6.77	5.81	4.26	3.87
	5	±100ppm	-40°C ~ 85°C	14 Pin DIP	ECS-P145-ANX-ND	6.77	5.81	4.26	3.87
			0°C ~ 70°C	14 Pin DIP	ECS-P145-AX-ND	6.77	5.81	4.26	3.87
		±50ppm	0°C ~ 70°C	14 Pin DIP	ECS-P145-BX-ND	6.77	5.81	4.26	3.87

† Call Digi-Key with your Selected Base Part Number, and a Sales Representative will enter your desired frequency.

Programmable parts are non-cancelable and non-returnable!

CrystalPro Oscillator Programming System

Programmer

PC Based Programmer

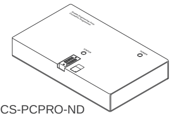

ECS-PCPRO-ND

Designed specifically to program oscillator devices, the CrystalPro is a fast, accurate, low cost solution for your low to mid volume programming needs. Software and firmware upgrades can be downloaded off the web to support future parts from manufacturers and new technologies such as programmable TCXO and VCXO devices. The user-friendly CrystalWindow graphical interface ensures complete and valid part specification and fast part type switching. Attaches to any Windows PC via standard serial port.

Features: • Fast - average programming is less than two seconds • Accurate - frequency at time of programming cycle is within 5ppm • Simple - just select part number, type in desired frequency and click PROGRAM • Flexible - handling devices up to 250MHz and LVTTL/TTL/CMOS/ECL/PECL I/O technologies, the CrystalPro is designed to handle tomorrow’s technologies as they become available.

Description	Digi-Key Part No.	Price Each
PC Based Programmer	ECS-PCPRO-ND	1521.00

Blank Oscillator

Description	Digi-Key Part No.	Price Each
Blank Oscillator, Full Size	ECS-UPO-14PIN-ND	4.52
Blank Oscillator, Half Size	ECS-UPO-8PIN-ND	4.52
RoHS Compliant		
Blank Oscillator, 3 x 5 SMD	ECS-UPO-3X5-ND	7.35
Blank Oscillator, 5 x 7 SMD	ECS-UPO-5X7-ND	4.52
Blank Oscillator, Full Size	ECS-UPO-14PINX-ND ***NEW!***	4.52
Blank Oscillator, Half Size	ECS-UPO-8PINX-ND ***NEW!***	4.52

Adapter

Description	Digi-Key Part No.	Price Each
Adapter 3 x 5 SMD	ECS-UPO-3X5-FXT-ND	87.75
Adapter 5 x 7 SMD	ECS-UPO-5X7-FXT-ND	67.50

CARDINAL
COMPONENTS, INC.

FIPO™ Field Instantly Programmable Oscillators

The FIPO system from Cardinal is indispensable for such things as prototypes, early stage design, unexpected design problems, modification, immediate service, a sudden ramp in production and volume production. Cardinal Oscillator Blanks are "Twice Programmable" to correct errors or to reuse the same part for two separate applications with different frequency and/or different output characteristics without having to dispose of the original part.

Oscillator Blanks are available in four different package styles: Full Size 14 Pin Dip, Half Size 8 Pin Dip, 5x7 Ceramic SMD, and a Plastic SMD package.
Frequency ranges are available from 1MHz ~ 133MHz in 5V and 1MHz ~ 100MHz in 3.3V and in ±100ppm, ±50ppm and ±25ppm frequency stability options.

Fig. 1 (Style 4) Half Size, 8-Pin Dip

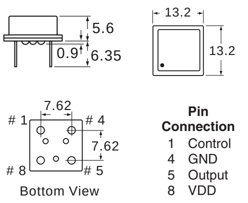

Pin Connection
1 Control
4 GND
5 Output
8 VDD

Fig. 2 (Style 1) Full Size 14 Pin Dip

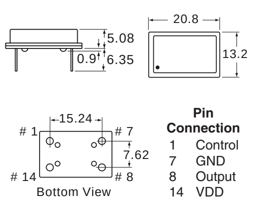

Pin Connection
1 Control
7 GND
8 Output
14 VDD

Fig. 3 (Style 7) 5x7 Ceramic SMD

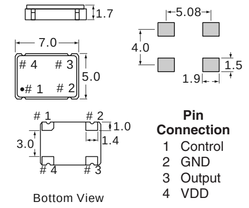

Pin Connection
1 Control
2 GND
3 Output
4 VDD

Fig. 4 (Style 5) 3.2 x 5 Ceramic SMD

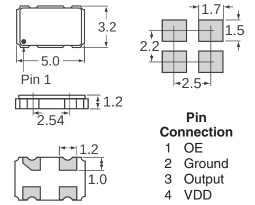

Pin Connection
1 OE
2 Ground
3 Output
4 VDD

Fig. 5 (Style 8) Plastic SMD

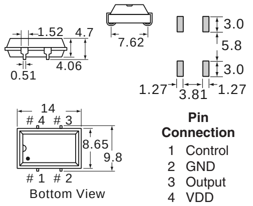

Pin Connection
1 Control
2 GND
3 Output
4 VDD

CPP:
CPPL:
CPPFX:

Example Part Number:
□□ - □□□□□ - ND

**** Programmable parts are non-cancelable and non-returnable!***

#1

	Output
C	CMOS
T	TTL

#2

	Package Style
1	Full Size
4	Half Size
5	3.2 x 5 Ceramic
7	5 x 7 Ceramic
8	Plastic SMD

CPPFX Available in 5 x 7 only.

#3

	Voltage
H	5 Volt
L	3.3 Volt

H = 1 thru 133MHz
L = 1 thru 100MHz

#4

	Packaging
T	Tube
Z	Tape & Reel

Package style 1 and 4 available in tube packaging only. Package style 7 and 8 available in tube and tape & reel

#5

	Operating Temp.
0	0°C ~ 70°C
5	-20°C ~ 70°C
7	-40°C ~ 85°C

CPPFX available in -40°C ~ 85°C only.

#6

	Stability
6	±100ppm
P	±50ppm
R	±25ppm

R not available in -40°C to 80°C
CPPFX available in ±25ppm only.

#7

	Function
T	Tri-State
P	Power Down

Tri-State Mode – The output of the part is weakly pulled low when the control pin goes low. The active circuitry continues to operate, allowing a rapid return to normal operation when the control pin goes high.
Power Down Mode – When the control pin goes low, all active circuitry on the chip within the oscillator is shut down. For reactivation, time in which the part regains its output is minimal.

How to Select a Base Number:

# 1 = Select Output
# 2 = Select Package Style
# 3 = Select Voltage
# 4 = Select Packaging
# 5 = Select Operating Temperature
# 6 = Select Stability
# 7 = Select Function

Fig.	Digi-Key * Base Part No.	Price Each 1	10	50	Tape & Reel Pricing 100	500	1,000
1	CPPC4-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPC4-□T□R□-ND	8.14	6.98	5.12	—	—	—
	CPPLC4-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPLT4-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPT4-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPT4-□T□R□-ND	8.14	6.98	5.12	—	—	—
2	CPPC1-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPC1-□T□R□-ND	8.14	6.98	5.12	—	—	—
	CPPLC1-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPLT1-□T□□□-ND	8.14	6.98	5.12	—	—	—
	CPPT1-□T□□□-ND	7.09	6.08	4.46	—	—	—
	CPPT1-□T□R□-ND	8.14	6.98	5.12	—	—	—
3	CPPC7-□□□□□-ND	6.56	5.63	4.13	375.00	1406.25	2500.00
	CPPC7-□□□R□-ND	7.56	6.48	4.76	432.00	1620.00	2880.00
3	CPPFXC7-□□7R□-ND	8.72	7.47	5.48	498.00	1867.50	3320.00
	CPPFXT7-□□7R□-ND	8.72	7.47	5.48	498.00	1867.50	3320.00
	CPPLC7-□□□□□-ND	7.56	6.48	4.76	432.00	1620.00	2880.00
	CPPLT7-□□□□□-ND	7.56	6.48	4.76	432.00	1620.00	2880.00
	CPPT7-□□□□□-ND	6.56	5.63	4.13	375.00	1406.25	2500.00
	CPPT7-□□□R□-ND	7.56	6.48	4.76	432.00	1620.00	2880.00
4	CPPLC5-□T□□□-ND	9.98	8.55	6.27	—	—	—
	CPPLT5-□T□□□-ND	9.98	8.55	6.27	—	—	—
5	CPPC8-□□□□□-ND	7.09	6.08	4.46	405.00	1518.75	2700.00
	CPPC8-□□□R□-ND	8.14	6.98	5.12	465.00	1743.75	3100.00
	CPPLC8-□□□□□-ND	8.14	6.98	5.12	465.00	1743.75	3100.00
	CPPLT8-□□□□□-ND	8.14	6.98	5.12	465.00	1743.75	3100.00
	CPPT8-□□□□□-ND	7.09	6.08	4.46	405.00	1518.75	2700.00
	CPPT8-□□□R□-ND	8.14	6.98	5.12	465.00	1743.75	3100.00

Programmable Oscillators

Fig. 1

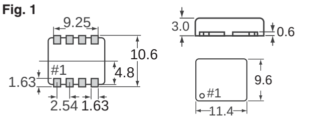

Fig. 2

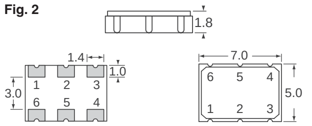

CPPE9 Series PECL Pin Connection	
1	OE
2	Connect to Pin 3
3	Connect to Pin 2
4	GND
5	PECL +
6	PECL -
7	VDD Connect to Pin 8
8	VDD Connect to Pin 7

CPPHE7 Series LVPCEL Pin Connection	
1	OE (CMOS)
2	NC
3	GND
4	LVPECL +
5	LVPECL -
6	VDD

CPPHV7 Series LVDS Pin Connection	
1	OE (CMOS)
2	NC
3	GND
4	LVDS +
5	LVDS -
6	VDD

CPPV9 Series LVDS Pin Connection	
1	OE
2	Connect to Pin 3
3	Connect to Pin 2
4	GND
5	LVDS +
6	LVDS -
7	VDD Connect to Pin 8
8	VDD Connect to Pin 7

Fig.	Voltage	Operating Temperature	Frequency Tolerance	Frequency Range	Digi-Key * Base Part No.	Price Each 1	10	50	100
				CPPE9 Series — PECL					
1	3.3	0°C ~ 70°C	±100ppm	1MHz ~ 100MHz	CPPE9LTB6-ND	24.94	21.38	15.68	14.25
			±50ppm		CPPE9LTBP-ND	24.94	21.38	15.68	14.25
		-20°C ~ 70°C	±100ppm	1MHz ~ 100MHz	CPPE9LTA5B6-ND	24.94	21.38	15.68	14.25
			±50ppm		CPPE9LTA5BP-ND	24.94	21.38	15.68	14.25
		-40°C ~ 85°C	±100ppm	1MHz ~ 100MHz	CPPE9LTA7B6-ND	24.94	21.38	15.68	14.25
			±50ppm		CPPE9LTA7BP-ND	24.94	21.38	15.68	14.25
				CPPHE7 Series — LVPECL					
2	3.3	-40°C ~ 85°C	±25ppm	150MHz ~ 700MHz	CPPHE7-A7BC-ND	78.75	67.50	49.50	45.00
				CPPHV7 Series — LVDS					
2	3.3	-40°C ~ 85°C	±25ppm	150MHz ~ 700MHz	CPPHV7-A7BC-ND	78.75	67.50	49.50	45.00
				CPPV9 Series — LVDS					
1	3.3	0°C ~ 70°C	±100ppm	1MHz ~ 100MHz	CPPV9LTB6-ND	24.94	21.38	15.68	14.25
			±50ppm		CPPV9LTBP-ND	24.94	21.38	15.68	14.25
		-20°C ~ 70°C	±100ppm	1MHz ~ 100MHz	CPPV9LTA5B6-ND	24.94	21.38	15.68	14.25
			±50ppm		CPPV9LTA5BP-ND	24.94	21.38	15.68	14.25
		-40°C ~ 85°C	±100ppm	1MHz ~ 100MHz	CPPV9LTA7B6-ND	24.94	21.38	15.68	14.25
			±50ppm		CPPV9LTA7BP-ND	24.94	21.38	15.68	14.25

* Call Digi-Key with your Selected Base Part Number, and a Sales Representative will enter your desired frequency. Programmable parts are non-cancelable and non-returnable!

FIPO™ Programmable (Blank) Oscillators

Description	Digi-Key Part No.	Price Each
5x7 Ceramic SMD, ±25ppm	CPPFX-X7-A7BCNP-ND	5.81
Full Size, ±50ppm or ±100ppm	CPPLX1-A7BRNP-ND	5.43
Half Size, ±50ppm or ±100ppm	CPPLX4-A7BRNP-ND	5.43
3.2 x 5mm SMD, ±50ppm or ±100ppm	CPPLX5-A7BRNP-ND	6.65
5x7 Ceramic SMD, ±50ppm or 100ppm	CPPLX7-A7BRNP-ND	5.04
Plastic SMD J-lead, ±50ppm or ±100ppm	CPPLX8-A7BRNP-ND	5.43
Full Size, ±25ppm	CPPX1-A5BC-ND	5.43
Full Size, ±50ppm or ±100ppm	CPPX1-A7BR-ND	4.73
Half Size, ±25ppm	CPPX4-A5BC-ND	5.43
Half Size, ±50ppm or ±100ppm	CPPX4-A7BR-ND	4.73
5x7 Ceramic SMD, ±25ppm	CPPX7-A5BC-ND	5.04
5x7 Ceramic SMD, ±50ppm or 100ppm	CPPX7-A7BR-ND	4.38
Plastic SMD, ±25ppm SMD	CPPX8-A5BC-ND	5.43
Plastic SMD, ±50ppm or ±100ppm	CPPX8-A7BR-ND	4.73

PECL and LVDS Oscillators (Blank)

Description	Digi-Key Part No.	Price Each
8 Pin PECL SMD, ±50ppm or ±100ppm	CPPE9-ND	16.63
6 Pin High Frequency PECL SMD, ±25ppm	CPPHE7-ND	52.50
6 Pin High Frequency LVDS SMD, ±25ppm	CPPHV7-ND	52.50
8 Pin LVDS SMD, ±50ppm or ±100ppm	CPPV9-ND	16.63

Programmers and Adapter Sockets

Description	Digi-Key Part No.	Price Each
PC Based Programmer for FIPO Parts	PG-3000-ND	489.00
Stand-Alone Programmer for FIPO parts	PG2000P-ND	1560.00
PC Based Programmer for FIPO and High Frequency PECL and LVDS Parts	PG3100-ND	750.00
Socket for 8 Pin PECL and LVDS Parts (for use with PG-3000 and PG-3100)	SC-3500-ND	51.30
Socket for 5mm x 3.2mm Oscillators (for use with PG-3000, PG3100 and PG2000P)	SC-5320-ND	47.25
Socket for 5mm x 7mm Ceramic Oscillators (for use with PG-3000, PG3100 and PG2000P)	SC2000-ND	47.38
Socket for Style 8 Plastic Oscillators (for use with PG-3000, PG3100 and PG2000P)	SC2500-ND	88.00
Socket for 6 Pin High Frequency PECL and LVDS Parts (for use with PG-3100)	SC4000-ND	112.50

For Programmer features and system requirements, please see appropriate data sheets on Digi-Key® website.

EPSON ELECTRONICS AMERICA, INC.

SG8002 Programmable Oscillators

The SG-8002 Series gives you the flexibility to solve many different application problems with a one time programmable device. Programmable Oscillators provide the ability to pick a custom frequency in one of five different packages available in SMD and Thru-Hole styles. These five packages are pin compatible with the Epson SG-615, SG-636, SG-51, SG-531 and SG-710 Oscillators. Frequency ranges are available from 1MHz ~ 125MHz, in ±100ppm and ±50ppm frequency stability options and 3.3 or 5V power supply levels.

Fig. 1 SG-645 Package (JF)

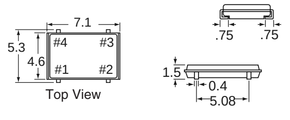

Fig. 2 SG-636 Package (JC)

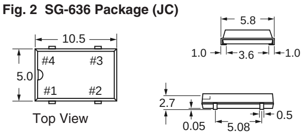

Fig. 3 SG-615 Package (JA)

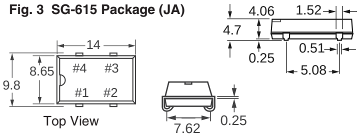

Fig. 4 SG-531 Package (DC)

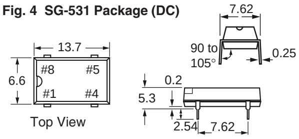

Fig. 5 SG-51 Package (DB)

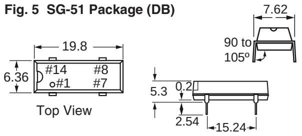

Fig. 6 SG-710 Package (CA)

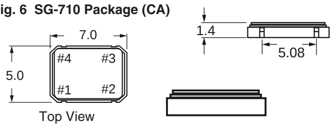

A

Pin	Connection
1	OE or ST
2	GND
3	Out
4	Vdd

B

Pin	Connection
1	OE or ST
4	GND
5	Out
8	Vdd

C

Pin	Connection
1	OE or ST
7	GND
8	Out
14	Vdd

Fig.	Digi-Key * Base Part No.	Price Each 1	10	50	100
1A	SG-8002JF-□□□-ND	5.25	4.50	3.30	3.00
2A	SG-8002JC-□□□-ND	5.88	5.04	3.70	3.36
3A	SG-8002JA-□□□-ND	5.78	4.95	3.63	3.30
4B	SG-8002DC-□□□-ND	5.15	4.41	3.24	2.94
5C	SG-8002DB-□□□-ND	5.15	4.41	3.24	2.94
Lead Free/RoHS Compliant					
1A	SGR-8002JF-□□□-ND	5.25	4.50	3.30	3.00
2A	SGR-8002JC-□□□-ND	5.88	5.04	3.70	3.36
3A	SGR-8002JA-□□□-ND	5.78	4.95	3.63	3.30
4B	SGR-8002DC-□□□-ND	5.15	4.41	3.24	2.94
5C	SGR-8002DB-□□□-ND	5.15	4.41	3.24	2.94
6A	SG-8002CA-□□□-ND	6.25	5.36	3.93	3.57

* For Complete Base Part Number, substitute the corresponding letter for □.

Parts coming from Digi-Key are marked with Manufacture Date Lot Code only. Fully marked parts are available as a non-catalog order.

One Time Programmable parts are non-cancelable, non-returnable!

Example Part Number:

SG-8002
SGR-8002 □□ - □□□ **-ND**

How to order:

#1 = Select Package.
#2 = Select Function.
#3 = Select Power Supply Duty Level.
#4 = Select Frequency Stability and Operating Temperature.

Call Digi-Key with your Base Part Number and an Operator will enter your desired frequency.

#1

	Package
JA	SG-615
JC	SG-636
DB	SG-51
DC	SG-531
CA	SG-710
JF	SG-645

#2

	Function
P	Output Enable
S	Standby

#3	Power Supply Duty Level	***#4***	Frequency Stability	Operating Temperature	Available Frequency Range
H	5.0V, CMOS	***B***	±50ppm	-20°C ~ 70°C	1.00MHz - 125.00MHz
		C	±100ppm		
		M†	±100ppm	-40°C ~ 85°C	1.00MHz - 55.00MHz
T	5.0V, TTL	***B***	±50ppm	-20°C ~ 70°C	1.00MHz - 125.00MHz
		C	±100ppm		
		M†	±100ppm	-40°C ~ 85°C	1.00MHz - 55.00MHz
C	3.3V, CMOS	***B***	±50ppm	-20°C ~ 70°C	1.00MHz - 125.00MHz
		C	±100ppm		
		M†	±100ppm	-40°C ~ 85°C	1.00MHz - 125.00MHz

† Not available in JC Package

SG-3030JC Crystal Oscillator

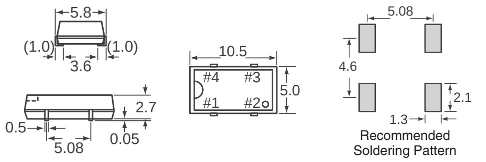

Specifications:

• **Voltage:** 1.5V ~ 5.5V • **Interface Power Supply Voltage:** 1.5V ~ 5.5V • **Storage Temperature:** -55°C ~ 125°C • **Operating Temperature:** -40°C ~ 85°C • **Frequency Tolerance:** +5/-23ppm • **Supply Current:** 2µA Max. • **Duty Cycle:** 45% ~ 55% • **Start-up Time:** 3s • **Output Load CMOS:** 15pF Max. • **Rise Time CMOS:** 200ns Max. • **Fall Time CMOS:** 200ns Max.

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 250	Epson Part No.
32.768	SE3618CT-ND	3.12	2.67	2.23	SE3618TR-ND	371.58	SG-3030JC 32.7680KB3

SG-9001 Series Oscillator with Spread Spectrum

Specifications:
• **Supply Voltage:** 3.3V ±.3V • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -40°C ~ 125°C • **Supply Current:** 30mA • **Duty Cycle:** 45% ~ 55% • **Start-up Time:** 10ms • **Output Voltage:** -0.4V (VOH); .4V (VOL) • **Load Capacitance:** 15.0pF • **Rise Time CMOS:** 2.7ns • **Fall Time CMOS:** 2.7ns

Spread Spectrum Specifications

Center Spread	Code	C10P	C15P	C20P
	%	±1.0%	±1.5%	±2.0%
Down Spread	Code	D15P	—	—
	%	-1.5%	—	—

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Epson Part No.
16.6667	SE1915-ND	6.69	5.73	4.40	SG-9001CA C10P 16.6667MC
25.0000	SE1916-ND	6.69	5.73	4.40	SG-9001CA C10P 25.0000MC
25.0000	SE1917-ND	6.69	5.73	4.40	SG-9001CA C20P 25.0000MC
33.3333	SE1918-ND	6.69	5.73	4.40	SG-9001CA C15P 33.3333MC
33.3333	SE1919-ND	6.69	5.73	4.40	SG-9001CA D15P 33.3333MC
40.0000	SE1920-ND	6.69	5.73	4.40	SG-9001CA C20P 40.0000MC
50.0000	SE1921-ND	6.69	5.73	4.40	SG-9001CA D15P 50.0000MC
50.0000	SE1922-ND	6.69	5.73	4.40	SG-9001CA C20P 50.0000MC
66.6667	SE1923-ND	6.69	5.73	4.40	SG-9001CA C20P 66.6667MC
66.6667	SE1924-ND	6.69	5.73	4.40	SG-9001CA D15P 66.6667MC

No.	Pin
1	OE
2	(SSON)*
3	GND
4	OUT
5	N.C.
6	VDD

* SSON Terminal should be kept open or GND.

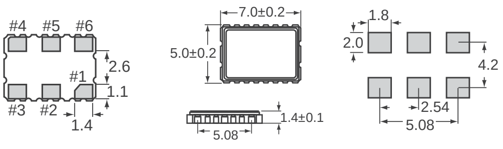

HG-1000 Oscillators

Pin	Connection
1	Ts
2	Gnd
3	Out
4	Vdd

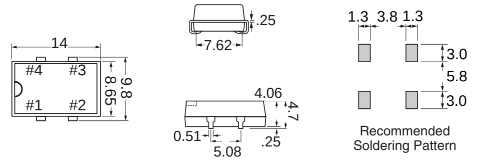

Specifications:

• **Supply Voltage:** 5V ±.25V • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Frequency Tolerance:** ±25ppm • **Supply Current:** 10mA Maximum • **Duty @ CMOS Level (VDD/2):** 40% ~ 60% • **Load Capacitance:** 15.0pF • **Rise Time CMOS:** 8ns Maximum • **Fall Time CMOS:** 8ns Maximum • **Start-up Time:** 4ms Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Epson Part No.
16.384	SE2864CT-ND	10.15	8.70	7.25	HG-1012JA 16.3840M-BX0

EG2001CA Series Surface Mount Quartz Crystal Oscillators

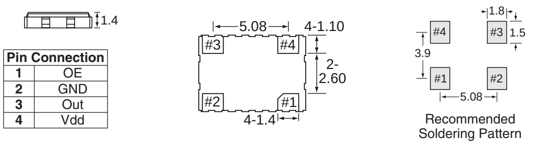

Recommended
Soldering Pattern

Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

Specifications: • **Supply Voltage:** 3.3V ±.3V • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 100°C • **Supply Current:** 50mA Maximum • **Start-up Time:** 10ms Maximum • **Rise Time CMOS:** 2ns Maximum • **Fall Time CMOS:** 2ns Maximum • **Frequency Stability:** ±100ppm, 0°C ~ 70°C • **Duty Cycle:** 45%-55% @ 1/2 VDD • **Output Load:** 25pF Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Epson Part No.
106.25	SE1008CT-ND	13.00	11.70	10.40	9.10	SE1008TR-ND	1,000	8330.00	EG-2001CA 106.2500M-PCHL0
125.00	SE1009CT-ND	14.38	12.94	11.50	10.07	SE1009TR-ND	1,000	9170.00	EG-2001CA 125.0000M-PCHL0
133.00	SE1007CT-ND	19.25	16.50	13.75	12.38	SE1007TR-ND	250	2292.50	EG-2001CA 133.0000M-PCHL3

EG2101CA Series Surface Mount Quartz Crystal Oscillators

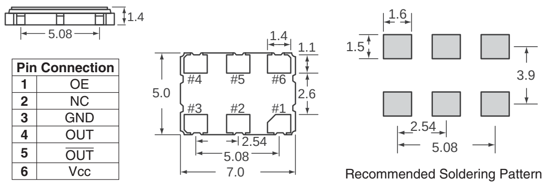

Recommended Soldering Pattern

Pin Connection	
1	OE
2	NC
3	GND
4	OUT
5	OUT
6	Vcc

Specifications:
• **Supply Voltage:** 3.3V ±.15V • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 100°C • **Supply Current:** 60mA Maximum • **Start-up Time:** 10ms Maximum • **Frequency Tolerance:** ±100ppm • **Duty Cycle:** 45% ~ 55% • **Rise Time:** 600ps Maximum • **Fall Time:** 600ps Maximum • **Accumulated Jitter:** 4ps typ.; 5ps Maximum • **Output Load:** 50Ω • **Output Disable Current:** 25mA Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 250	Epson Part No.
125.0000	SE3610CT-ND	38.15	32.70	27.25	24.53	SE3610TR-ND	4542.49	EG-2101CA 125.0000M-PCHL3
155.5200	SE3611CT-ND	38.15	32.70	27.25	24.53	SE3611TR-ND	4542.49	EG-2101CA 155.5200M-PCHL3
156.2500	SE3612CT-ND	42.35	36.30	30.25	27.23	SE3612TR-ND	5042.49	EG-2101CA 156.2500M-PCHL3
159.3750	SE3613CT-ND	42.35	36.30	30.25	27.23	SE3613TR-ND	5042.49	EG-2101CA 159.3750M-PCHL3
161.1328	SE3614CT-ND	42.35	36.30	30.25	27.23	SE3614TR-ND	5042.49	EG-2101CA 161.1328M-PCHL3
250.0000	SE3615CT-ND	42.35	36.30	30.25	27.23	SE3615TR-ND	5042.49	EG-2101CA 250.0000M-PCHL3

EG2121CA Series Surface Mount Quartz Crystal Oscillators

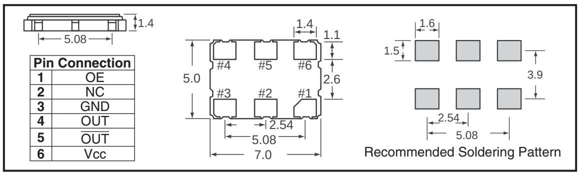

Recommended Soldering Pattern

Pin Connection	
1	OE
2	NC
3	GND
4	OUT
5	OUT
6	Vcc

Specifications:
• **Supply Voltage:** 2.5V ±.125V • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 100°C • **Supply Current:** 80mA Maximum • **Start-up Time:** 10ms Maximum • **Frequency Tolerance:** ±100ppm • **Duty Cycle:** 40% ~ 60% • **Rise Time:** 400ps • **Fall Time:** 400ps • **Accumulated Jitter:** 4ps typ.; 5ps Maximum • **Output Load:** 50Ω

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 250	Epson Part No.
125.00	SE3616CT-ND	46.20	39.60	33.00	29.70	SE3616TR-ND	5500.01	EG-2121CA 125.0000M-PHPAL3
156.25	SE3617CT-ND	49.35	42.30	35.25	31.73	SE3617TR-ND	5875.01	EG-2121CA 156.2500M-PHPAL3

SG615 Series Surface Mount Quartz Crystal Oscillators

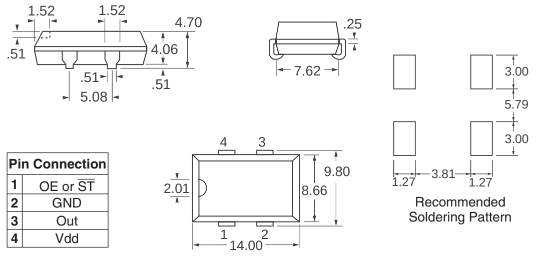

Recommended
Soldering Pattern

Pin Connection	
1	OE or ST
2	GND
3	Out
4	Vdd

Specifications:	SG-615P	SG-615PTJ	SG-615PH	SG-615PCV	SG-615PCG
Max. Supply Voltage	-.3V ~ 7V			-.5V ~ 7V	
Operating Voltage	5V±.5V			2.7V ~ 5.5V	2.7V ~ 3.6V
Storage Temperature	-55°C ~ 125°C				
Operating Temperature	-40°C ~ 85°C			-10°C ~ 70°C	-40°C ~ 85°C
Frequency Stability	Parts ending in MB ±50ppm, MC ±100ppm				
Current Consumption	23mA Max.	35mA Max.		50mA Max.	12mA Max.
Output Disable Current	12mA Max.	28mA Max.	20mA Max.	27mA Max.	10mA Max.
Oscillation Start-up Time	4ms Max.	10ms Max.			12ms Max.
Duty					
CMOS	40% ~ 60%	—	40% ~ 60%	35% ~ 60%	45% ~ 55%
TTL	45% ~ 55%		—		
Output Voltage					
VOH	V_{DD}-.4V Min.	2.4V Min.	V_{DD}-.4VMin.	V_{DD}-.5V	V_{DD}-.4VMin.
VOL	.4V Max.				
Output Enable / Disable Input Volt.					
VIH	2V Min.	3.5V Min.	2V Min.	.7V Min.	70%V_{DD}Min.
VIL	.8V Max.	1.5V Max.	.8V Max.	.2V Max.	20%V_{DD}Max.
Output Fall Time					
CMOS	8ns Max.	—	7ns Max.	4ns Max.	
TTL	8ns Max.	5ns Max.	—		

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Epson Part No.
SG-615P (CMOS, TTL compatible type)									
1.54400	SE2217CT-ND	3.50	3.00	2.50	2.25	SE2217TR-ND	1,000	1670.00	SG-615P 1.5440MC0
1.84320	SE2201CT-ND	3.50	3.00	2.50	2.25	SE2201TR-ND	1,000	1670.00	SG-615P 1.8432MC0
2.00000	SE2202CT-ND	3.50	3.00	2.50	2.25	SE2202TR-ND	1,000	1670.00	SG-615P 2.0000MC0
2.04800	SE2218CT-ND	3.50	3.00	2.50	2.25	SE2218TR-ND	1,000	1670.00	SG-615P 2.0480MC0
2.45760	SE2203CT-ND	3.50	3.00	2.50	2.25	SE2203TR-ND	1,000	1670.00	SG-615P 2.4576MC0
3.07200	SE2219CT-ND	3.50	3.00	2.50	2.25	SE2219TR-ND	1,000	1670.00	SG-615P 3.0720MC0
3.57900	SE2222CT-ND	3.50	3.00	2.50	2.25	SE2222TR-ND	1,000	1670.00	SG-615P 3.579545MC0
3.68640	SE2204CT-ND	3.50	3.00	2.50	2.25	SE2204TR-ND	1,000	1670.00	SG-615P 3.6864MC0
4.00000	SE2205CT-ND	3.50	3.00	2.50	2.25	SE2205TR-ND	1,000	1670.00	SG-615P 4.0000MC0
5.00000	SE2224CT-ND	3.50	3.00	2.50	2.25	SE2224TR-ND	1,000	1670.00	SG-615P 5.0000MC0
6.00000	SE2207CT-ND	3.50	3.00	2.50	2.25	SE2207TR-ND	1,000	1670.00	SG-615P 6.0000MC0
6.14400	SE2226CT-ND	3.50	3.00	2.50	2.25	SE2226TR-ND	1,000	1670.00	SG-615P 6.1440MC0
7.37200	SE2227CT-ND	3.50	3.00	2.50	2.25	SE2227TR-ND	1,000	1670.00	SG-615P 7.3728MC0
8.19200	SE2228CT-ND	3.50	3.00	2.50	2.25	SE2228TR-ND	1,000	1670.00	SG-615P 8.1920MC0
9.83000	SE2229CT-ND	3.50	3.00	2.50	2.25	SE2229TR-ND	1,000	1670.00	SG-615P 9.8300MC0
10.00000	SE2209CT-ND	3.50	3.00	2.50	2.25	SE2209TR-ND	1,000	1670.00	SG-615P 10.0000MC0
11.05900	SE2232CT-ND	3.50	3.00	2.50	2.25	SE2232TR-ND	1,000	1670.00	SG-615P 11.0592MC0
12.00000	SE2210CT-ND	3.50	3.00	2.50	2.25	SE2210TR-ND	1,000	1670.00	SG-615P 12.0000MC0
12.28800	SE2233CT-ND	3.50	3.00	2.50	2.25	SE2233TR-ND	1,000	1670.00	SG-615P 12.2880MC0
14.31818	SE2211CT-ND	3.50	3.00	2.50	2.25	SE2211TR-ND	1,000	1670.00	SG-615P 14.31818MC0
14.74560	SE3619CT-ND	3.50	3.00	2.50	2.25	SE3619TR-ND	250	417.50	SG-615P 14.7456MC3
16.00000	SE2212CT-ND	3.50	3.00	2.50	2.25	SE2212TR-ND	1,000	1670.00	SG-615P 16.0000MC0
18.43200	SE2213CT-ND	3.50	3.00	2.50	2.25	SE2213TR-ND	1,000	1670.00	SG-615P 18.4320MC0
18.86900	SE2238CT-ND	3.50	3.00	2.50	2.25	SE2238TR-ND	1,000	1670.00	SG-615P 18.8696MC0
19.66000	SE2239CT-ND	3.50	3.00	2.50	2.25	SE2239TR-ND	1,000	1670.00	SG-615P 19.6608MC0
20.00000	SE2214CT-ND	3.50	3.00	2.50	2.25	SE2214TR-ND	1,000	1670.00	SG-615P 20.0000MC0
20.48000	SE2240CT-ND	3.50	3.00	2.50	2.25	SE2240TR-ND	1,000	1670.00	SG-615P 20.4800MC0
22.11800	SE2241CT-ND	3.50	3.00	2.50	2.25	SE2241TR-ND	1,000	1670.00	SG-615P 22.1184MC0
24.00000	SE2215CT-ND	3.50	3.00	2.50	2.25	SE2215TR-ND	1,000	1670.00	SG-615P 24.0000MC0
25.00000	SE3620CT-ND	3.89	3.33	2.78	2.50	SE3620TR-ND	250	462.50	SG-615P 25.0000MB3
25.00000	SE2242CT-ND	3.50	3.00	2.50	2.25	SE2242TR-ND	1,000	1670.00	SG-615P 25.0000MC0
SG-615PCG (CMOS compatible type)									
25.00000	SE3621CT-ND	3.50	3.00	2.50	2.25	SE3621TR-ND	250	463.43	SG-615PCG 25.0000MB3
SG-615PCV (CMOS compatible type)									
50.00000	SE3503CT-ND	5.25	4.38	3.10	2.80	—	—	—	SG-615PCV 50.000MC0
75.00000	SE3511CT-ND	5.85	4.88	3.40	3.10	SE3511TR-ND	1,000	2550.00	SG-615PCV 75.000MC0
106.25000	SE3515CT-ND	6.45	5.38	3.85	3.45	SE3515TR-ND	1,000	2900.00	SG-615PCV 106.250MC0
SG-615PH (CMOS compatible type)									
32.00000	SE2337CT-ND	3.50	3.00	2.50	2.25	SE2337TR-ND	1,000	1670.00	SG-615PH 32.0000MC0
33.00000	SE2339CT-ND	3.50	3.00	2.50	2.25	SE2339TR-ND	1,000	1670.00	SG-615PH 33.0000MC0
33.33300	SE2340CT-ND	3.50	3.00	2.50	2.25	SE2340TR-ND	1,000	1670.00	SG-615PH 33.3333MC0
36.00000	SE2341CT-ND	3.50	3.00	2.50	2.25	SE2341TR-ND	1,000	1670.00	SG-615PH 36.0000MC0
40.00000	SE2343CT-ND	3.50	3.00	2.50	2.25	SE2343TR-ND	1,000	1670.00	SG-615PH 40.0000MC0
44.90000	SE2344CT-ND	3.50	3.00	2.50	2.25	SE2344TR-ND	1,000	1670.00	SG-615PH 44.9000MC0
48.00000	SE2345CT-ND	3.50	3.00	2.50	2.25	SE2345TR-ND	1,000	1670.00	SG-615PH 48.0000MC0
50.00000	SE2346CT-ND	3.50	3.00	2.50	2.25	SE2346TR-ND	1,000	1670.00	SG-615PH 50.0000MC0
55.00000	SE2347CT-ND	3.50	3.00	2.50	2.25	SE2347TR-ND	1,000	1670.00	SG-615PH 55.0000MC0
66.66600	SE2352CT-ND	3.64	3.12	2.60	2.34	SE2352TR-ND	1,000	1850.00	SG-615PH 66.6660MC0
SG-615PTJ (TTL compatible type)									
27.00000	SE2326CT-ND	3.50	3.00	2.50	2.25	SE2326TR-ND	1,000	1670.00	SG-615PTJ 27.0000MC0
30.00000	SE2330CT-ND	3.50	3.00	2.50	2.25	SE2330TR-ND	1,000	1670.00	SG-615PTJ 30.0000MC0
40.00000	SE3622CT-ND	3.50	3.00	2.50	2.25	SE3622TR-ND	250	417.50	SG-615PTJ 40.0000MC3
50.00000	SE3608CT-ND	3.50	3.00	2.50	2.25	SE3608TR-ND	250	417.50	SG-615PTJ 50.0000MC3

EPSON ELECTRONICS AMERICA. INC.

CMOS/TTL Oscillators

Features:

- High reliability by cylinder type AT Crystal
- Automatic mountable
- Lower current consumption by C-MOS IC
- TTL-10 output load by using C-MOS IC
- DIP 14-pin plastic package compatible with metal package oscillator
- DIP 8-pin plastic package compatible with half size metal package oscillator

SG-51P, SG-531P, SG-51PH

Specifications: • **Operating Voltage:** 5.0 ±0.5V • **Operating Temperature Range:** -10°C ~ 70°C • **Frequency Stability:** ±100ppm • **Current Consumption:** 25mA Max. Typ. • **Output Voltage:** (VDD) -0.4V Minimum, (IOH) -400mA; 0.4V Max., (IOL) 16mA • **Input Voltage:** (VIH) 2.0V Minimum, (IOH) 1mA (VIH = VDD); (VIL) 0.8V Max., (IIL) -100µA (VIL = GND) • **Output Rise Time:** 8ns Max., 4ns Typ. • **Output Fall Time:** 8ns Max., 5ns Typ. • **Oscillation Time:** 4ms Max., 0.3ms

SG-531PTJ, SG-51PTJ

Specifications: • **Operating Voltage:** 5.0 ±0.5V • **Operating Temp. Range**: 10°C ~ 70°C • **Frequency Stability**: ±100ppm • **Current Consumption:** 25mA (32MHz) without load typ. • **Output Voltage:** (VDD) -0.4V Minimum, (IOH) -400 mA; 0.4V Max., (IOL) 16mA • **Input Voltage:** (VIH) 3.5V Minimum, (IIH) 1mA (VIH = VDD); (VIL) 1.5V Max., (IIL) 100µA (VIL = GND) • **Output Rise Time:** 10ns Max., 5ns Typ. • **Output Fall Time:** 8ns Max., 3ns Typ. • **Oscillation Time:** 10ms Max., 5ms Typ.

SG-531PH

Specifications: • **Operating Voltage:** 5.0 ±0.5V • **Operating Temp. Range:** -10°C ~ 70°C • **Frequency Stability:** ±100ppm • **Current Consumption:** 32mA Max. Typ. • **Output Voltage:** (VDD) -0.37V Minimum, (IOH) -4mA; 0.37V Max., (IOL) 4mA • **Output Rise Time:** 7ns Max., 3.5ns Typ. • **Output Fall Time:** 7ns Max., 3.5ns Typ. • **Oscillation Time:** 10ms Max., 3ms Typ.

Half Size

SG-531P, PH, PTJ Pin Connection	
1	OE
4	GND
5	Out
8	Vdd

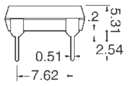

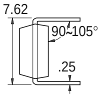

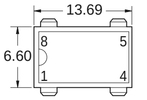

Full Size

SG-51P, PH, PTJ Pin Connection	
1	OE
7	GND
8	Out
14	Vdd

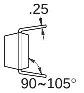

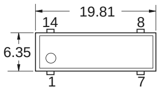

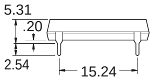

Series	Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	50	100	Epson Part No.
Half Size							
SG-531P CMOS/TTL with Output Enable	1.544000	SE1216-ND	2.94	24.50	85.26	154.84	SG-531P 1.5440MC
	1.843200	SE1201-ND	2.94	24.50	85.26	154.84	SG-531P 1.8432MC
	2.000000	SE1217-ND	2.94	24.50	85.26	154.84	SG-531P 2.0000MC
	2.048000	SE1218-ND	2.94	24.50	85.26	154.84	SG-531P 2.0480MC
	2.457600	SE1202-ND	2.94	24.50	85.26	154.84	SG-531P 2.4576MC
	3.072000	SE1219-ND	2.94	24.50	85.26	154.84	SG-531P 3.0720MC
	3.088000	SE1220-ND	2.94	24.50	85.26	154.84	SG-531P 3.0880MC
	3.276800	SE1221-ND	2.94	24.50	85.26	154.84	SG-531P 3.2768MC
	3.579545	SE1222-ND	2.94	24.50	85.26	154.84	SG-531P 3.579545MC
	3.686000	SE1223-ND	2.94	24.50	85.26	154.84	SG-531P 3.6864MC
	4.000000	SE1203-ND	2.94	24.50	85.26	154.84	SG-531P 4.0000MC
	4.096000	SE1224-ND	2.94	24.50	85.26	154.84	SG-531P 4.0960MC
	4.915200	SE1204-ND	2.94	24.50	85.26	154.84	SG-531P 4.9152MC
	5.000000	SE1205-ND	2.94	24.50	85.26	154.84	SG-531P 5.0000MC
	5.068800	SE1225-ND	2.94	24.50	85.26	154.84	SG-531P 5.0688MC
	6.000000	SE1206-ND	2.94	24.50	85.26	154.84	SG-531P 6.0000MC
	6.144000	SE1226-ND	2.94	24.50	85.26	154.84	SG-531P 6.1440MC
	7.372800	SE1227-ND	2.94	24.50	85.26	154.84	SG-531P 7.3728MC
	8.000000	SE1207-ND	2.94	24.50	85.26	154.84	SG-531P 8.0000MC
	8.192000	SE1228-ND	2.94	24.50	85.26	154.84	SG-531P 8.1920MC
	9.830400	SE1229-ND	2.94	24.50	85.26	154.84	SG-531P 9.8304MC
	10.000000	SE1208-ND	2.94	24.50	85.26	154.84	SG-531P 10.0000MC
	10.240000	SE1230-ND	2.94	24.50	85.26	154.84	SG-531P 10.2400MC
	11.000000	SE1231-ND	2.94	24.50	85.26	154.84	SG-531P 11.0000MC
	11.059200	SE1232-ND	2.94	24.50	85.26	154.84	SG-531P 11.0592MC
	12.000000	SE1209-ND	2.94	24.50	85.26	154.84	SG-531P 12.0000MC
	12.288000	SE1233-ND	2.94	24.50	85.26	154.84	SG-531P 12.2880MC
	14.318180	SE1210-ND	2.94	24.50	85.26	154.84	SG-531P 14.31818MC
	14.745600	SE1234-ND	2.94	24.50	85.26	154.84	SG-531P 14.7456MC
	15.000000	SE1235-ND	2.94	24.50	85.26	154.84	SG-531P 15.0000MC
	16.257000	SE1236-ND	2.94	24.50	85.26	154.84	SG-531P 16.2570MC
	18.000000	SE1237-ND	2.94	24.50	85.26	154.84	SG-531P 18.0000MC
	18.432000	SE1238-ND	2.94	24.50	85.26	154.84	SG-531P 18.4320MC
	18.869600	SE1239-ND	2.94	24.50	85.26	154.84	SG-531P 18.8696MC
	19.660800	SE1240-ND	2.94	24.50	85.26	154.84	SG-531P 19.6608MC
	20.480000	SE1241-ND	2.94	24.50	85.26	154.84	SG-531P 20.4800MC
	22.118400	SE1242-ND	2.94	24.50	85.26	154.84	SG-531P 22.1184MC
	24.000000	SE1213-ND	2.94	24.50	85.26	154.84	SG-531P 24.0000MC
	25.175000	SE1215-ND	2.94	24.50	85.26	154.84	SG-531P 25.1750MC
	25.576000	SE1243-ND	2.94	24.50	85.26	154.84	SG-531P 25.5760MC
SG-531PH CMOS with Output Enable	32.000000	SE1111-ND	2.94	24.50	85.26	154.84	SG-531PH 32.0000MC
	32.514000	SE1112-ND	2.94	24.50	85.26	154.84	SG-531PH 32.5140MC
	32.768000	SE1113-ND	2.94	24.50	85.26	154.84	SG-531PH 32.7680MC
	33.000000	SE1114-ND	2.94	24.50	85.26	154.84	SG-531PH 33.0000MC
	33.333000	SE1115-ND	2.94	24.50	85.26	154.84	SG-531PH 33.3330MC
	36.000000	SE1116-ND	2.94	24.50	85.26	154.84	SG-531PH 36.0000MC
	38.000000	SE1117-ND	2.94	24.50	85.26	154.84	SG-531PH 38.0000MC
	42.000000	SE1119-ND	2.94	24.50	85.26	154.84	SG-531PH 42.0000MC
	44.900000	SE1120-ND	2.94	24.50	85.26	154.84	SG-531PH 44.9000MC
	48.000000	SE1122-ND	2.94	24.50	85.26	154.84	SG-531PH 48.0000MC
	64.000000	SE1126-ND	3.09	25.75	89.88	162.27	SG-531PH 64.0000MC
	65.000000	SE1127-ND	3.09	25.75	89.88	162.27	SG-531PH 65.0000MC
	66.000000	SE1128-ND	3.09	25.75	89.88	162.27	SG-531PH 66.0000MC
	66.666700	SE1129-ND	3.09	25.75	89.88	162.27	SG-531PH 66.6667MC
SG-531PTJ TTL with Output Enable	27.000000	SE1817-ND	2.94	24.50	85.26	154.84	SG-531PTJ 27.0000MC
	28.000000	SE1818-ND	2.94	24.50	85.26	154.84	SG-531PTJ 28.0000MC
	28.322000	SE1819-ND	2.94	24.50	85.26	154.84	SG-531PTJ 28.3220MC
	28.636360	SE1820-ND	2.94	24.50	85.26	154.84	SG-531PTJ 28.63636MC
	29.491000	SE1821-ND	2.94	24.50	85.26	154.84	SG-531PTJ 29.4910MC
	30.000000	SE1822-ND	2.94	24.50	85.26	154.84	SG-531PTJ 30.0000MC
	32.514000	SE1824-ND	2.94	24.50	85.26	154.84	SG-531PTJ 32.5140MC
	32.768000	SE1825-ND	2.94	24.50	85.26	154.84	SG-531PTJ 32.7680MC
	33.000000	SE1826-ND	2.94	24.50	85.26	154.84	SG-531PTJ 33.0000MC
	33.333300	SE1827-ND	2.94	24.50	85.26	154.84	SG-531PTJ 33.3333MC
	36.000000	SE1828-ND	2.94	24.50	85.26	154.84	SG-531PTJ 36.0000MC

Series	Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	50	100	Epson Part No.
Full Size							
SG-51P CMOS/TTL with Output Enable	1.544000	SE1716-ND	2.94	24.50	85.26	154.84	SG-51P 1.5440MC
	1.843200	SE1701-ND	2.94	24.50	85.26	154.84	SG-51P 1.8432MC
	2.000000	SE1717-ND	2.94	24.50	85.26	154.84	SG-51P 2.0000MC
	2.048000	SE1718-ND	2.94	24.50	85.26	154.84	SG-51P 2.0480MC
	3.072000	SE1719-ND	2.94	24.50	85.26	154.84	SG-51P 3.0720MC
	3.088000	SE1720-ND	2.94	24.50	85.26	154.84	SG-51P 3.0880MC
	3.276800	SE1721-ND	2.94	24.50	85.26	154.84	SG-51P 3.2768MC
	3.579545	SE1722-ND	2.94	24.50	85.26	154.84	SG-51P 3.579545MC
	3.686400	SE1723-ND	2.94	24.50	85.26	154.84	SG-51P 3.6864MC
	4.000000	SE1703-ND	2.94	24.50	85.26	154.84	SG-51P 4.0000MC
	4.096000	SE1724-ND	2.94	24.50	85.26	154.84	SG-51P 4.0960MC
	4.915200	SE1704-ND	2.94	24.50	85.26	154.84	SG-51P 4.9152MC
	5.000000	SE1705-ND	2.94	24.50	85.26	154.84	SG-51P 5.0000MC
	5.068000	SE1725-ND	2.94	24.50	85.26	154.84	SG-51P 5.0680MC
	6.000000	SE1706-ND	2.94	24.50	85.26	154.84	SG-51P 6.0000MC
	6.144800	SE1726-ND	2.94	24.50	85.26	154.84	SG-51P 6.1448MC
	7.372800	SE1727-ND	2.94	24.50	85.26	154.84	SG-51P 7.3728MC
	8.000000	SE1707-ND	2.94	24.50	85.26	154.84	SG-51P 8.0000MC
	8.192000	SE1728-ND	2.94	24.50	85.26	154.84	SG-51P 8.1920MC
	9.830400	SE1729-ND	2.94	24.50	85.26	154.84	SG-51P 9.8304MC
	10.000000	SE1708-ND	2.94	24.50	85.26	154.84	SG-51P 10.0000MC
	10.240000	SE1730-ND	2.94	24.50	85.26	154.84	SG-51P 10.2400MC
	11.000000	SE1731-ND	2.94	24.50	85.26	154.84	SG-51P 11.0000MC
	11.059200	SE1732-ND	2.94	24.50	85.26	154.84	SG-51P 11.0592MC
	12.000000	SE1709-ND	2.94	24.50	85.26	154.84	SG-51P 12.0000MC
	12.288000	SE1733-ND	2.94	24.50	85.26	154.84	SG-51P 12.2880MC
	14.318180	SE1710-ND	2.94	24.50	85.26	154.84	SG-51P 14.318MC
	14.745600	SE1734-ND	2.94	24.50	85.26	154.84	SG-51P 14.7456MC
	15.000000	SE1735-ND	2.94	24.50	85.26	154.84	SG-51P 15.0000MC
	16.000000	SE1711-ND	2.94	24.50	85.26	154.84	SG-51P 16.0000MC
	16.257000	SE1736-ND	2.94	24.50	85.26	154.84	SG-51P 16.2570MC
	18.000000	SE1737-ND	2.94	24.50	85.26	154.84	SG-51P 18.0000MC
	18.432000	SE1738-ND	2.94	24.50	85.26	154.84	SG-51P 18.4320MC
	18.869000	SE1739-ND	2.94	24.50	85.26	154.84	SG-51P 18.8690MC
	19.660800	SE1740-ND	2.94	24.50	85.26	154.84	SG-51P 19.6608MC
	20.000000	SE1712-ND	2.94	24.50	85.26	154.84	SG-51P 20.0000MC
	20.480000	SE1741-ND	2.94	24.50	85.26	154.84	SG-51P 20.4800MC
	22.118000	SE1742-ND	2.94	24.50	85.26	154.84	SG-51P 22.1184MC
	24.000000	SE1713-ND	2.94	24.50	85.26	154.84	SG-51P 24.0000MC
	24.576000	SE1743-ND	2.94	24.50	85.26	154.84	SG-51P 24.5760MC
	25.000000	SE1714-ND	2.94	24.50	85.26	154.84	SG-51P 25.0000MC
	25.175000	SE1715-ND	2.94	24.50	85.26	154.84	SG-51P 25.1750MC
SG-51PH CMOS/TTL with Output Enable	32.768000	SE1902-ND	2.94	24.50	85.26	154.84	SG-51PH 32.7680MC
	33.000000	SE1903-ND	2.94	24.50	85.26	154.84	SG-51PH 33.0000MC
	33.333000	SE1904-ND	2.94	24.50	85.26	154.84	SG-51PH 33.3330MC
	36.000000	SE1905-ND	2.94	24.50	85.26	154.84	SG-51PH 36.0000MC
	38.000000	SE1906-ND	2.94	24.50	85.26	154.84	SG-51PH 38.0000MC
	42.000000	SE1908-ND	2.94	24.50	85.26	154.84	SG-51PH 42.0000MC
	44.900000	SE1909-ND	2.94	24.50	85.26	154.84	SG-51PH 44.9000MC
	46.000000	SE1910-ND	2.94	24.50	85.26	154.84	SG-51PH 46.0000MC
	48.000000	SE1911-ND	2.94	24.50	85.26	154.84	SG-51PH 48.0000MC
	50.000000	SE1912-ND	2.94	24.50	85.26	154.84	SG-51PH 50.0000MC
	55.000000	SE1913-ND	2.94	24.50	85.26	154.84	SG-51PH 55.0000MC
	60.000000	SE1914-ND	3.09	25.75	89.88	162.27	SG-51PH 60.0000MC
SG-51PTJ TTL with Output Enable	28.000000	SE1806-ND	2.94	24.50	85.26	154.84	SG-51PTJ 28.0000MC
	28.322000	SE1807-ND	2.94	24.50	85.26	154.84	SG-51PTJ 28.3220MC
	28.636360	SE1808-ND	2.94	24.50	85.26	154.84	SG-51PTJ 28.63636MC
	29.491200	SE1809-ND	2.94	24.50	85.26	154.84	SG-51PTJ 29.4912MC
	30.000000	SE1810-ND	2.94	24.50	85.26	154.84	SG-51PTJ 30.0000MC
	32.000000	SE1811-ND	2.94	24.50	85.26	154.84	SG-51PTJ 32.0000MC
	32.768000	SE1813-ND	2.94	24.50	85.26	154.84	SG-51PTJ 32.7680MC
	33.000000	SE1814-ND	2.94	24.50	85.26	154.84	SG-51PTJ 33.0000MC
	33.333300	SE1815-ND	2.94	24.50	85.26	154.84	SG-51PTJ 33.3333MC
	36.000000	SE1816-ND	2.94	24.50	85.26	154.84	SG-51PTJ 36.0000MC

A462-ND	Aries Electronics Inc., Full Size, 4-Pin Oscillator Sockets.......	**$.55/1**	**$11.60/25**	**$37.59/100**
A463-ND	Aries Electronics Inc., Half Size, 4-Pin Oscillator Sockets......	**$.55/1**	**$11.60/25**	**$37.59/100**

SG636PCE Series Surface Mount Quartz Crystal Oscillators

Specifications:

- **Supply Voltage:** 3.3V ±.3V
- **Operating Temperature:** -20°C ~ 70°C
- **Storage Temperature:** -55°C ~ 100°C
- **Frequency Tolerance:** ±100ppm
- **Supply Current:** 9mA
- **Disable Current:** 5mA
- **Duty @ CMOS Level (VDD/2):** 45% ~ 55%
- **Fall Time CMOS:** 5ns Maximum
- **Rise Time CMOS:** 5ns Maximum
- **Start-up Time:** 4ms Maximum

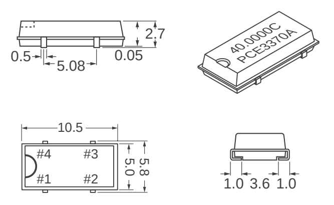

Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

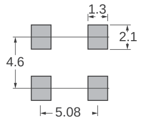

Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel Pricing	Epson Part No.
		1	10	50	100		1,000	
2.4576	SE2801CT-ND	4.38	37.50	156.25	281.25	SE2801TR-ND	2080.00	SG-636PCE 2.4576MC0
3.6864	SE2806CT-ND	4.38	37.50	156.25	281.25	SE2806TR-ND	2080.00	SG-636PCE 3.6864MC0
4.0000	SE2807CT-ND	4.38	37.50	156.25	281.25	SE2807TR-ND	2080.00	SG-636PCE 4.0000MC0
5.0000	SE2810CT-ND	4.38	37.50	156.25	281.25	SE2810TR-ND	2080.00	SG-636PCE 5.0000MC0
6.0000	SE2812CT-ND	4.38	37.50	156.25	281.25	SE2812TR-ND	2080.00	SG-636PCE 6.0000MC0
8.0000	SE2815CT-ND	4.38	37.50	156.25	281.25	SE2815TR-ND	2080.00	SG-636PCE 8.0000MC0
8.1920	SE2816CT-ND	4.38	37.50	156.25	281.25	SE2816TR-ND	2080.00	SG-636PCE 8.1920MC0
10.0000	SE2818CT-ND	4.38	37.50	156.25	281.25	SE2818TR-ND	2080.00	SG-636PCE 10.0000MC0
10.2400	SE2819CT-ND	4.38	37.50	156.25	281.25	SE2819TR-ND	2080.00	SG-636PCE 10.2400MC0
12.0000	SE2822CT-ND	4.38	37.50	156.25	281.25	SE2822TR-ND	2080.00	SG-636PCE 12.0000MC0
14.7456	SE2825CT-ND	4.38	37.50	156.25	281.25	SE2825TR-ND	2080.00	SG-636PCE 14.7456MC0
15.0000	SE2826CT-ND	4.38	37.50	156.25	281.25	SE2826TR-ND	2080.00	SG-636PCE 15.0000MC0
16.0000	SE2827CT-ND	4.38	37.50	156.25	281.25	SE2827TR-ND	2080.00	SG-636PCE 16.0000MC0
18.4320	SE2830CT-ND	4.38	37.50	156.25	281.25	SE2830TR-ND	2080.00	SG-636PCE 18.4320MC0
20.0000	SE2833CT-ND	4.38	37.50	156.25	281.25	SE2833TR-ND	2080.00	SG-636PCE 20.0000MC0
24.0000	SE2836CT-ND	4.38	37.50	156.25	281.25	SE2836TR-ND	2080.00	SG-636PCE 24.0000MC0
25.0000	SE2837CT-ND	4.38	37.50	156.25	281.25	SE2837TR-ND	2080.00	SG-636PCE 25.0000MC0
25.1750	SE2838CT-ND	4.38	37.50	156.25	281.25	SE2838TR-ND	2080.00	SG-636PCE 25.1750MC0
27.0000	SE2839CT-ND	4.38	37.50	156.25	281.25	SE2839TR-ND	2080.00	SG-636PCE 27.0000MC0
29.4912	SE2842CT-ND	4.38	37.50	156.25	281.25	SE2842TR-ND	2080.00	SG-636PCE 29.4912MC0
30.0000	SE2843CT-ND	4.38	37.50	156.25	281.25	SE2843TR-ND	2080.00	SG-636PCE 30.0000MC0
32.0000	SE2844CT-ND	4.38	37.50	156.25	281.25	SE2844TR-ND	2080.00	SG-636PCE 32.0000MC0
33.0000	SE2847CT-ND	4.38	37.50	156.25	281.25	SE2847TR-ND	2080.00	SG-636PCE 33.0000MC0
33.3333	SE2848CT-ND	4.38	37.50	156.25	281.25	SE2848TR-ND	2080.00	SG-636PCE 33.3333MC0
36.0000	SE2849CT-ND	4.38	37.50	156.25	281.25	SE2849TR-ND	2080.00	SG-636PCE 36.0000MC0
38.0000	SE2850CT-ND	4.38	37.50	156.25	281.25	SE2850TR-ND	2080.00	SG-636PCE 38.0000MC0
40.0000	SE2851CT-ND	4.38	37.50	156.25	281.25	SE2851TR-ND	2080.00	SG-636PCE 40.0000MC0

SG636PCV Series Surface Mount Quartz Crystal Oscillators

Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

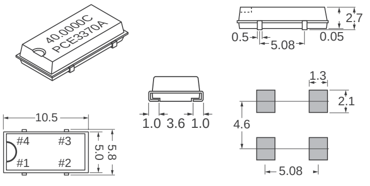

Specifications:

- **Supply Voltage:** 3.3V ±.3V
- **Operating Temperature:** -10°C ~ 70°C
- **Storage Temperature:** -55°C ~ 100°C
- **Frequency Tolerance:** ±100ppm
- **Supply Current:** 9mA
- **Disable Current:** 5mA
- **Duty @ CMOS Level (VDD/2):** 45% ~ 55%
- **Fall Time CMOS:** 5ns Maximum
- **Rise Time CMOS:** 5ns Maximum
- **Start-up Time:** 4ms Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing				Epson Part No.
		1	10	50	100	
55.000	SE2855CT-ND	6.15	51.25	180.00	325.00	SG-636PCV 55.000MC0

SG636PTF Series Surface Mount Quartz Crystal Oscillators

Pin Connection	
1	OE
2	GND
3	Out
4	Vdd

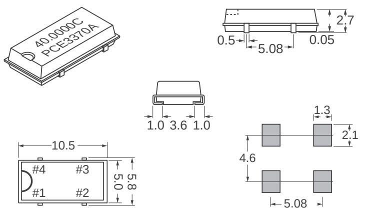

Specifications:

- **Supply Voltage:** 5V ±.5V
- **Operating Temperature:** -20°C ~ 70°C
- **Storage Temperature:** -55°C ~ 100°C
- **Frequency Tolerance:** ±100ppm
- **Supply Current:** 17mA
- **Disable Current:** 10mA
- **Duty @ CMOS Level (VDD/2):** 40% ~ 60%
- **Fall Time CMOS:** 7ns Maximum
- **Rise Time CMOS:** 7ns Maximum
- **Start-up Time:** 4ms Maximum

Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel Pricing	Epson Part No.
		1	10	50	100		250	
25.000	SE3623CT-ND	3.50	30.00	125.00	225.00	SE3623TR-ND	417.50	SG-636PTF 25.0000MC3
40.000	SE3624CT-ND	3.50	30.00	125.00	225.00	SE3624TR-ND	417.50	SG-636PTF 40.0000MC3

Voltage Controlled Crystal Oscillators (VCXO) VG-1011JA Series

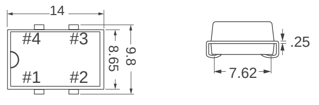

Pin Connection	
1	VC
2	GND
3	Out
4	Vdd

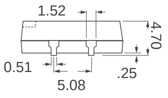

Features:

- Reflowable and high density
- SMD mounting
- Using the heat-resisting type AT cut quartz crystal allows almost the same temperature soldering as universal SMD IC
- Using C-MOS IC allows low current consumption and assures high reliability

Specifications:

- **Frequency Adjustment Range:** ±75ppm
- **Frequency Control Sensitivity:** 2.5, ±2.0V, ±10%
- **Supply Voltage:** 5V ±.5V
- **Operating Temperature:** -20°C ~ 70°C
- **Storage Temperature:** -55°C ~ 125°C
- **Frequency Tolerance:** ±20ppm
- **Supply Current:** 13mA
- **Output Voltage:** .4V (VOL)
- **Output Current:** -0.8mA IOH; .8mA IOL
- **Duty @ CMOS Level (VDD/2):** 40% ~ 60%
- **Control Voltage:** 4.5V ~ 5.5V
- **Fall Time:** 8ns
- **Rise Time:** 8ns

Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel Pricing	Epson Part No.
		1	10	50	100		1,000	
16.384	SE3603CT-ND	15.96	136.80	570.00	1026.00	SE3603TR-ND	7600.00	VG-1011JA 16.3840MAVK0
19.200	SE3605CT-ND	15.96	136.80	570.00	1026.00	—	—	VG-1011JA 19.2000MAVK0

EPSON ELECTRONICS AMERICA, INC.

Quartz Crystals - C-Type, Cylinder

C-Type Series Specifications: • Nominal Frequency: 32.768kHz **• Operating Temperature**: -10°C ~ 60°C **• Drive Level**: 1.0μW Max. **• Frequency Tolerance (Standard)**: ±20ppm **• Load Capacitance:** (SE3201, SE3202, SE3203) 12.5pf, (SE3204) 9pf, (SE3205) 6pf **• Series Resistance:** C-001R = 35kΩ Max. (18kΩ Typ.); C-002RX and C-004R = 50kΩ Max. (30kΩ Typ.); and C-005R = 50kΩ Max. (37kΩ Typ.)

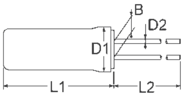

Model	L1 Max.	L2 Min.	D1 Max.	D2	B
C-001R	8.0	9.0	ø3.1	ø0.3	1.1
C-002RX	6.0	4.0	ø2.0	ø0.2	0.6
C-004R	5.0	4.0	ø1.5	ø0.18	0.5
C-005R	4.6	4.0	ø1.2	ø0.15	0.3

Frequency (kHz)	Digi-Key Part No.	Pricing 1	10	50	100	1,000	Epson Part No.
32.768	SE3201-ND	.27	2.25	7.71	14.14	115.71	C-001R 32.7680K-A
	SE3202-ND	.27	2.25	7.71	14.14	115.71	C-002RX 32.7680K-A
	SE3205-ND	.27	2.25	7.71	14.14	115.71	C-002RX 32.7680K-E
	SE3203-ND	1.38	11.50	41.00	74.00	620.00	C-004R 32.7680K-A
	SE3204-ND	5.64	47.00	166.50	300.00	2500.01	C-005R 32.7680K-AC

Quartz Crystals - C-2-Type, Cylinder

C-2 Series Specifications:

- **Operating Temperature:** -10°C ~ 60°C
- **Drive Level:** 1.0μW Max.
- **Crystal Load Capacitance/Tolerance:** All parts have 11pF load capacitance, ±100ppm except: (SE3311) C-2 32.560KH-AG, 7pF, ±190ppm; (SE3314) C-2 38.000KA-P 12.5pF, ±20ppm
- **Series Resistance Over 20kHz and Under 99kHz:** 35kΩ ~ 15kΩ
- **Series Resistance Over 100kHz and Under 200kHz:** 12kΩ ~ 8kΩ.

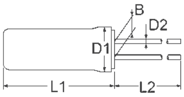

Model	L1 Max.	L2 Min.	D1 Max.	D2	B
C-2-Type	6.2	4.0	ø2.0	ø0.2	0.6

Frequency (kHz)	Digi-Key Part No.	Pricing 1	10	50	100	1,000	Epson Part No.
20.0000	SE3301-ND	1.23	10.25	36.50	66.00	550.00	C-2 20.0000K-P
25.6000	SE3302-ND	1.23	10.25	36.50	66.00	550.00	C-2 25.6000K-P
26.6670	SE3303-ND	1.23	10.25	36.50	66.00	550.00	C-2 26.6670K-P
28.0000	SE3304-ND	1.23	10.25	36.50	66.00	550.00	C-2 28.0000K-P
30.0000	SE3305-ND	1.23	10.25	36.50	66.00	550.00	C-2 30.0000K-P
30.7600	SE3306-ND	1.23	10.25	36.50	66.00	550.00	C-2 30.7600K-P
31.2500	SE3308-ND	1.23	10.25	36.50	66.00	550.00	C-2 31.2500K-P
31.5000	SE3309-ND	1.23	10.25	36.50	66.00	550.00	C-2 31.5000K-P
32.0000	SE3310-ND	1.23	10.25	36.50	66.00	550.00	C-2 32.0000K-P
32.5600	SE3311-ND	1.23	10.25	36.50	66.00	550.00	C-2 32.5600KH-AG
32.9190	SE3312-ND	1.23	10.25	36.50	66.00	550.00	C-2 32.9190KC-P
36.0000	SE3313-ND	1.23	10.25	36.50	66.00	550.00	C-2 36.0000K-P
38.0000	SE3314-ND	1.35	11.25	36.50	66.00	550.00	C-2 38.0000KA-P
38.4000	SE3315-ND	1.23	10.25	36.50	66.00	550.00	C-2 38.4000K-P
40.0000	SE3316-ND	1.23	10.25	36.50	66.00	550.00	C-2 40.0000K-P
46.6084	SE3317-ND	1.23	10.25	36.50	66.00	550.00	C-2 46.6084KC-P
50.0000	SE3318-ND	1.23	10.25	36.50	66.00	550.00	C-2 50.0000K-P
60.0000	SE3320-ND	1.23	10.25	36.50	66.00	550.00	C-2 60.0000K-P
60.0020	SE3321-ND	1.23	10.25	36.50	66.00	550.00	C-2 60.0020KC-P
65.5350	SE3322-ND	1.23	10.25	36.50	66.00	550.00	C-2 65.5350K-P
75.0000	SE3323-ND	1.23	10.25	36.50	66.00	550.00	C-2 75.0000K-P
76.8000	SE3324-ND	1.23	10.25	36.50	66.00	550.00	C-2 76.8000K-P
83.0000	SE3330-ND	1.47	12.25	43.50	78.00	650.00	C-2 83.0000K-P
96.0000	SE3331-ND	1.47	12.25	43.50	78.00	650.00	C-2 96.0000K-P
100.0000	SE3333-ND	1.47	12.25	43.50	78.00	650.00	C-2 100.0000K-P
111.0000	SE3334-ND	1.47	12.25	43.50	78.00	650.00	C-2 111.0000K-P
120.0000	SE3335-ND	1.47	12.25	43.50	78.00	650.00	C-2 120.0000K-P
120.8475	SE3336-ND	1.47	12.25	43.50	78.00	650.00	C-2 120.8475K-P
131.0720	SE3337-ND	1.77	14.75	52.00	94.00	780.00	C-2 131.0720K-P
149.4750	SE3338-ND	1.77	14.75	52.00	94.00	780.00	C-2 149.4750K-P

Quartz Crystals - CA-301 Type, Cylinder

CA-301 Series Specifications: • Operating Temperature: -20°C ~ 70°C **• Drive Level:** 2mW Max. **• Recommended Level:** 10μW ~ 100μW Typ. **• Frequency Tolerance (Standard):** ±30ppm **• Load Capacitance:** 18pF **• Series Resistance:** See table

Frequency MHz Over	Under	Series Resistance	Mode
4.0	5.5	150Ω Max.	Fundamental
5.5	6.0	100Ω Max.	
6.0	10.0	80Ω Max.	
10.0	12.0	60Ω Max.	
12.0	16.0	50Ω Max.	
16.0	30.0	40Ω Max.	
26.0	36.0	100Ω Max.	3rd Overtone
36.0	64.0	80Ω Max.	

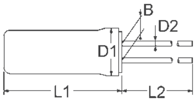

Model	L1 Max.	L2 Min.	D1 Max.	D2	B
Under 5.3MHz	9.3	9.5	ø3.1	ø0.3	1.1
Over 5.5MHz	8.9	9.5	ø3.1	ø0.3	1.1

Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	50	100	1,000	Epson Part No.
4.000000	SE3404-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.0000M-C
4.194304	SE3405-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.194304M-C
4.433619	SE3406-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.433619M-C
4.915200	SE3407-ND	2.13	17.75	62.55	112.70	935.40	CA-301 4.9152M-C
5.500000	SE3408-ND	.96	8.00	28.00	50.40	424.00	CA-301 5.5000M-C
6.000000	SE3409-ND	.96	8.00	28.00	50.40	424.00	CA-301 6.000M-C
6.144000	SE3410-ND	.96	8.00	28.00	50.40	424.00	CA-301 6.1440M-C
6.757000	SE3411-ND	.96	8.00	28.00	50.40	424.00	CA-301 6.7570M-C
7.200000	SE3412-ND	.96	8.00	28.00	50.40	424.00	CA-301 7.200M-C
7.372800	SE3413-ND	.96	8.00	28.00	50.40	424.00	CA-301 7.372M-C
8.000000	SE3414-ND	.96	8.00	28.00	50.40	424.00	CA-301 8.000M-C
8.388608	SE3415-ND	.96	8.00	28.00	50.40	424.00	CA-301 8.388M-C
8.432000	SE3416-ND	.96	8.00	28.00	50.40	424.00	CA-301 8.432M-C
9.600000	SE3418-ND	.96	8.00	28.00	50.40	424.00	CA-301 9.600M-C
9.830400	SE3419-ND	.96	8.00	28.00	50.40	424.00	CA-301 9.830M-C
10.000000	SE3420-ND	.96	8.00	28.00	50.40	424.00	CA-301 10.0000M-C
10.240000	SE3421-ND	.96	8.00	28.00	50.40	424.00	CA-301 10.2400M-C
10.624400	SE3422-ND	.96	8.00	28.00	50.40	424.00	CA-301 10.6244M-C
11.059200	SE3423-ND	.96	8.00	28.00	50.40	424.00	CA-301 11.0592M-C
12.000000	SE3424-ND	.96	8.00	28.00	50.40	424.00	CA-301 12.0000M-C
12.096000	SE3425-ND	.96	8.00	28.00	50.40	424.00	CA-301 12.0960M-C
12.288000	SE3426-ND	.96	8.00	28.00	50.40	424.00	CA-301 12.2880M-C
13.500000	SE3427-ND	.96	8.00	28.00	50.40	424.00	CA-301 13.5000M-C
14.000000	SE3428-ND	.96	8.00	28.00	50.40	424.00	CA-301 14.0000M-C
14.318180	SE3429-ND	.96	8.00	28.00	50.40	424.00	CA-301 14.31818M-C
14.500000	SE3430-ND	.96	8.00	28.00	50.40	424.00	CA-301 14.500M-C
14.745600	SE3431-ND	.96	8.00	28.00	50.40	424.00	CA-301 14.7456M-C
15.000000	SE3432-ND	.96	8.00	28.00	50.40	424.00	CA-301 15.000M-C
16.000000	SE3433-ND	.96	8.00	28.00	50.40	424.00	CA-301 16.0000M-C
18.000000	SE3435-ND	.96	8.00	28.00	50.40	424.00	CA-301 18.0000M-C
18.432000	SE3436-ND	.96	8.00	28.00	50.40	424.00	CA-301 18.4320M-C
19.660800	SE3437-ND	.96	8.00	28.00	50.40	424.00	CA-301 19.6608M-C
20.000000	SE3438-ND	.96	8.00	28.00	50.40	424.00	CA-301 20.0000M-C
22.118400	SE3439-ND	.96	8.00	28.00	50.40	424.00	CA-301 22.1184M-C
24.000000	SE3440-ND	.96	8.00	28.00	50.40	424.00	CA-301 24.0000M-C
25.000000	SE3441-ND	.96	8.00	28.00	50.40	424.00	CA-301 25.0000M-C
25.175000	SE3442-ND	.96	8.00	28.00	50.40	424.00	CA-301 25.1750M-C
27.000000	SE3443-ND	.96	8.00	28.00	50.40	424.00	CA-301 27.0000M-C:(FUND)
28.000000	SE3444-ND	.96	8.00	28.00	50.40	424.00	CA-301 28.0000M-C:(FUND)
28.322000	SE3445-ND	.96	8.00	28.00	50.40	424.00	CA-301 28.3220M-C:(FUND)
32.000000	SE3446-ND	.96	8.00	28.00	50.40	424.00	CA-301 32.0000M-C
32.768000	SE3447-ND	.96	8.00	28.00	50.40	424.00	CA-301 32.7680M-C
33.000000	SE3448-ND	.96	8.00	28.00	50.40	424.00	CA-301 33.0000M-C
33.333000	SE3449-ND	.96	8.00	28.00	50.40	424.00	CA-301 33.3330M-C
36.000000	SE3450-ND	.96	8.00	28.00	50.40	424.00	CA-301 36.0000M-C
40.000000	SE3451-ND	.96	8.00	28.00	50.40	424.00	CA-301 40.0000M-C
46.000000	SE3453-ND	.96	8.00	28.00	50.40	424.00	CA-301 46.0000M-C
49.860000	SE3454-ND	.96	8.00	28.00	50.40	424.00	CA-301 49.8600M-C
50.000000	SE3455-ND	.96	8.00	28.00	50.40	424.00	CA-301 50.0000M-C
55.000000	SE3456-ND	.96	8.00	28.00	50.40	424.00	CA-301 55.0000M-C
60.000000	SE3457-ND	1.11	9.25	31.84	57.65	481.86	CA-301 60.000M-C

MA-306 Series Crystal

Specifications: • Storage Temperature: -55°C ~ 100°C, stored as naked product after unpacking **• Operating Temperature:** -20°C ~ 70°C **• Maximum Drive Level:** 2mW **• Recommended Drive Level:** 10μW ~ 100μW. **• Frequency Tolerance (standard):** ±50ppm **• Frequency Temperature Characteristics (standard):** ±30ppm, -20°C ~ 70°C, DL=100μW **• Load Capacitance:** 18pF **• Series Resistance:** 60Ω Max., -20°C ~ 70°C, DL=100μW **• Shunt Capacitance:** 5pF Max. **• Aging:** ±5ppm/year Max.

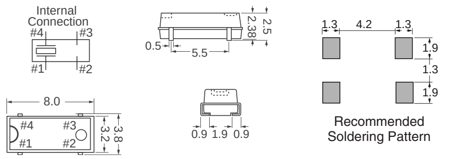

Recommended Soldering Pattern

Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Epson Part No.
18.00000	SE2701CT-ND	2.14	18.30	76.25	137.25	SE2701TR-ND	1020.00	MA-306 18.0000M-C0
18.43200	SE2702CT-ND	2.14	18.30	76.25	137.25	SE2702TR-ND	1020.00	MA-306 18.4320M-C0
19.66080	SE2704CT-ND	2.14	18.30	76.25	137.25	SE2704TR-ND	1020.00	MA-306 19.6608M-C0
20.00000	SE2705CT-ND	2.14	18.30	76.25	137.25	SE2705TR-ND	885.00	MA-306 20.0000M-C0
22.11840	SE2707CT-ND	2.14	18.30	76.25	137.25	SE2707TR-ND	1020.00	MA-306 22.1184M-C0
24.00000	SE2708CT-ND	2.14	18.30	76.25	137.25	SE2708TR-ND	1020.00	MA-306 24.0000M-C0
24.57600	SE2709CT-ND	2.14	18.30	76.25	137.25	SE2709TR-ND	884.50	MA-306 24.5760M-C0
25.00000	SE2710CT-ND	2.14	18.30	76.25	137.25	SE2710TR-ND	1020.00	MA-306 25.0000M-C0
25.17500	SE2711CT-ND	2.14	18.30	76.25	137.25	SE2711TR-ND	1020.00	MA-306 25.1750M-C0
27.00000	SE2712CT-ND	2.14	18.30	76.25	137.25	SE2712TR-ND	1020.00	MA-306 27.0000M-C0
28.00000	SE2713CT-ND	2.14	18.30	76.25	137.25	SE2713TR-ND	1020.00	MA-306 28.0000M-C0
28.63636	SE2715CT-ND	2.14	18.30	76.25	137.25	SE2715TR-ND	1020.00	MA-306 28.63636M-C0
29.49120	SE2716CT-ND	2.14	18.30	76.25	137.25	SE2716TR-ND	1020.00	MA-306 29.4912M-C0
32.00000	SE2718CT-ND	2.14	18.30	76.25	137.25	SE2718TR-ND	1020.00	MA-306 32.0000M-C0
40.00000	SE2725CT-ND	2.14	18.30	76.25	137.25	SE2725TR-ND	1020.00	MA-306 40.0000M-C0

Surface Mount Quartz Crystal Products

Package	FC-135	FC-255	MA-505	MA-506	MC-146	MC-156	MC-306	MC-405	MC-406
Operating Temperature	-40°C ~ 85°C	-40°C ~ 85°C	-20°C ~ 70°C	-20°C ~ 70°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C	-40°C ~ 85°C
Maximum Drive Level	0.5µW	0.5µW	2mW	2mW	1.0µW	1.0µW	1.0µW	1.0µW	1.0µW
Frequency Tolerance	±20ppm @ 25°C	±20ppm @ 25°C	±50ppm @ 25°C	±50ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C	±20ppm @ 25°C
Load Capacitance	12.5pF	12.5pF	18pF	18pF	9pF	12.5pF	A=12.5pf; E=6pF	12.5pF	12.5pF
Series Resistance	70KΩ Max.	65KΩ Max.	—	—	65KΩ Max.	65KΩ Max.	50KΩ Max.	50KΩ Max.	50KΩ Max.
Shunt Capacitance	1.3pF Typ.	1.3pF Typ.	5pF Max.	5pF Max.	0.8pF	—	0.9pF Max.	0.85pF Typ.	0.85pF

Fig. 1

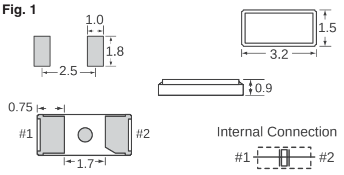

Fig. 2

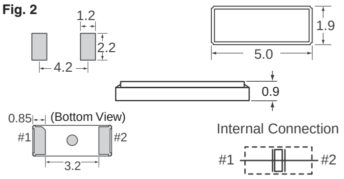

Fig. 3

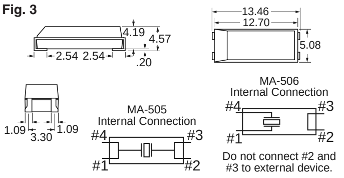

Fig. 4

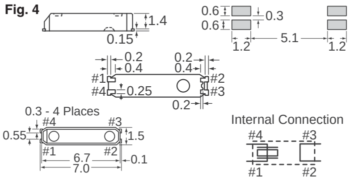

Fig. 5

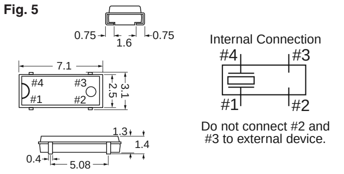

Fig. 6

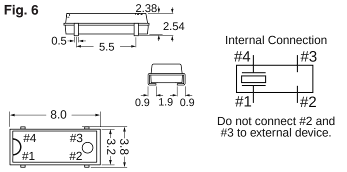

Fig. 7

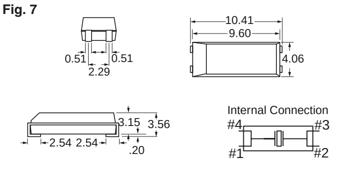

Fig. 8

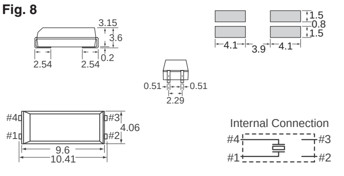

Type	Dimensions (mm) A	B	C	D
FC-135	1	1.7	1.8	—
FC-255	1.2	3.2	2.2	—
MA-505	4.09	7.01	5.61	—
MA-506	4.09	6.86	2.06	1.52
MC-146	1.2	5.1	0.6	0.3
MC-156	1.2	3.88	1.5	1
MC-306	1.3	4.2	1.9	1.3
MC-405	4.1	3.9	1.5	—
MC-406	4.1	3.9	1.5	0.8

Features: • Capable of withstanding reflow temperatures of 260°C for 20 seconds • Suitable for use in today's high density surface mount boards

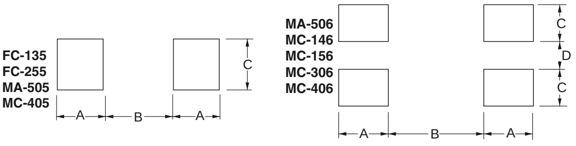

Recommended Soldering Pattern

Fig.	Series	Frequency	Digi-Key Part No.	Price 1	10	50	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Epson Part No.
1	FC-135	32.76800kHz	SE2413CT-ND	2.98	2.55	2.13	1.92	SE2413TR-ND	250	355.00	FC-135 32.7680KA-A3
2	FC-255	32.76800kHz	SE2415CT-ND	1.86	1.59	1.33	1.20	SE2415TR-ND	250	220.00	FC-255 32.7680K-A3
3	MA-505	4.00000MHz	SE2518CT-ND	2.80	2.40	2.00	1.80	SE2518TR-ND	1,000	1330.00	MA-505 4.0000M-C0
		4.09600MHz	SE2519CT-ND	2.80	2.40	2.00	1.80	SE2519TR-ND	1,000	1330.00	MA-505 4.0960M-C0
		4.91520MHz	SE2520CT-ND	2.80	2.40	2.00	1.80	SE2520TR-ND	1,000	1330.00	MA-505 4.9152M-C0
		6.00000MHz	SE2501CT-ND	1.12	.96	.80	.72	SE2501TR-ND	1,000	530.00	MA-505 6.0000M-C0
		7.37280MHz	SE2503CT-ND	1.12	.96	.80	.72	SE2503TR-ND	1,000	530.00	MA-505 7.3728M-C0
		8.00000MHz	SE2504CT-ND	1.12	.96	.80	.72	SE2504TR-ND	1,000	530.00	MA-505 8.0000M-C0
		9.83000MHz	SE2524CT-ND	1.12	.96	.80	.72	SE2524TR-ND	1,000	530.00	MA-505 9.8304M-C0
		10.00000MHz	SE2505CT-ND	1.12	.96	.80	.72	SE2505TR-ND	1,000	530.00	MA-505 10.0000M-C0
		10.24000MHz	SE2525CT-ND	1.12	.96	.80	.72	SE2525TR-ND	1,000	530.00	MA-505 10.2400M-C0
		11.05920MHz	SE2506CT-ND	1.12	.96	.80	.72	SE2506TR-ND	1,000	530.00	MA-505 11.0592M-C0
		12.00000MHz	SE2507CT-ND	1.12	.96	.80	.72	SE2507TR-ND	1,000	530.00	MA-505 12.0000M-C0
		14.31800MHz	SE2528CT-ND	1.12	.96	.80	.72	SE2528TR-ND	1,000	530.00	MA-505 14.3180M-C0
		14.74560MHz	SE2529CT-ND	1.12	.96	.80	.72	SE2529TR-ND	1,000	530.00	MA-505 14.7456M-C0
		16.00000MHz	SE2508CT-ND	1.12	.96	.80	.72	SE2508TR-ND	1,000	530.00	MA-505 16.0000M-C0
		18.43200MHz	SE2533CT-ND	1.12	.96	.80	.72	SE2533TR-ND	1,000	530.00	MA-505 18.4320M-C0
		19.66000MHz	SE2535CT-ND	1.12	.96	.80	.72	SE2535TR-ND	1,000	530.00	MA-505 19.6600M-C0
		20.00000MHz	SE2509CT-ND	1.12	.96	.80	.72	SE2509TR-ND	1,000	530.00	MA-505 20.0000M-C0
		24.00000MHz	SE2510CT-ND	1.12	.96	.80	.72	SE2510TR-ND	1,000	530.00	MA-505 24.0000M-C0
		24.57600MHz	SE2538CT-ND	1.12	.96	.80	.72	SE2538TR-ND	1,000	530.00	MA-505 24.5760M-C0
		25.00000MHz	SE2539CT-ND	1.12	.96	.80	.72	SE2539TR-ND	1,000	530.00	MA-505 25.0000M-C0
		29.49120MHz	SE2543CT-ND	1.12	.96	.80	.72	SE2543TR-ND	1,000	530.00	MA-505 29.4912M-C0:(30T)
		30.00000MHz	SE2544CT-ND	1.12	.96	.80	.72	SE2544TR-ND	1,000	530.00	MA-505 30.0000M-C0
		32.76800MHz	SE2546CT-ND	1.12	.96	.80	.72	SE2546TR-ND	1,000	530.00	MA-505 32.7680M-C0
		33.33330MHz	SE2514CT-ND	1.12	.96	.80	.72	SE2514TR-ND	1,000	530.00	MA-505 33.3330M-C0
		36.00000MHz	SE2548CT-ND	1.12	.96	.80	.72	SE2548TR-ND	1,000	530.00	MA-505 36.0000M-C0
		40.00000MHz	SE2515CT-ND	1.12	.96	.80	.72	SE2515TR-ND	1,000	530.00	MA-505 40.0000M-C0
3	MA-506	4.00000MHz	SE2618CT-ND	2.80	2.40	2.00	1.80	SE2618TR-ND	1,000	1330.00	MA-506 4.0000M-C0
		4.09600MHz	SE2619CT-ND	2.80	2.40	2.00	1.80	SE2619TR-ND	1,000	1330.00	MA-506 4.0960M-C0
		4.91520MHz	SE2620CT-ND	2.80	2.40	2.00	1.80	SE2620TR-ND	1,000	1330.00	MA-506 4.9152M-C0
		6.00000MHz	SE2601CT-ND	1.12	.96	.80	.72	SE2601TR-ND	1,000	530.00	MA-506 6.0000M-C0
		6.14400MHz	SE2602CT-ND	1.12	.96	.80	.72	SE2602TR-ND	1,000	530.00	MA-506 6.1440M-C0
		7.37280MHz	SE2603CT-ND	1.12	.96	.80	.72	SE2603TR-ND	1,000	530.00	MA-506 7.3728M-C0
		8.00000MHz	SE2604CT-ND	1.12	.96	.80	.72	SE2604TR-ND	1,000	530.00	MA-506 8.0000M-C0
		9.83000MHz	SE2624CT-ND	1.12	.96	.80	.72	SE2624TR-ND	1,000	530.00	MA-506 9.8300M-C0
		10.00000MHz	SE2605CT-ND	1.12	.96	.80	.72	SE2605TR-ND	1,000	530.00	MA-506 10.0000M-C0
		10.24000MHz	SE2625CT-ND	1.12	.96	.80	.72	SE2625TR-ND	1,000	530.00	MA-506 10.2400M-C0
		11.00000MHz	SE2626CT-ND	1.12	.96	.80	.72	SE2626TR-ND	1,000	530.00	MA-506 11.0000M-C0
		11.05920MHz	SE2606CT-ND	1.12	.96	.80	.72	SE2606TR-ND	1,000	530.00	MA-506 11.0592M-C0
		12.00000MHz	SE2607CT-ND	1.12	.96	.80	.72	SE2607TR-ND	1,000	530.00	MA-506 12.0000M-C0
		12.28800MHz	SE2627CT-ND	1.12	.96	.80	.72	SE2627TR-ND	1,000	530.00	MA-506 12.2880M-C0
		14.31818MHz	SE2628CT-ND	1.12	.96	.80	.72	SE2628TR-ND	1,000	480.00	MA-506 14.31818M-C0
		14.74560MHz	SE2629CT-ND	1.12	.96	.80	.72	SE2629TR-ND	1,000	530.00	MA-506 14.7456M-C0
		15.00000MHz	SE2630CT-ND	1.12	.96	.80	.72	SE2630TR-ND	1,000	530.00	MA-506 15.0000M-C0
		16.00000MHz	SE2608CT-ND	1.12	.96	.80	.72	SE2608TR-ND	1,000	530.00	MA-506 16.0000M-C0
		16.25700MHz	SE2631CT-ND	1.12	.96	.80	.72	SE2631TR-ND	1,000	530.00	MA-506 16.2570M-C0
		18.00000MHz	SE2632CT-ND	1.12	.96	.80	.72	SE2632TR-ND	1,000	530.00	MA-506 18.0000M-C0
		18.43200MHz	SE2633CT-ND	1.12	.96	.80	.72	SE2633TR-ND	1,000	530.00	MA-506 18.4320M-C0
		19.66080MHz	SE2635CT-ND	1.12	.96	.80	.72	SE2635TR-ND	1,000	530.00	MA-506 19.6608M-C0
		20.00000MHz	SE2609CT-ND	1.12	.96	.80	.72	SE2609TR-ND	1,000	530.00	MA-506 20.0000M-C0
		20.48000MHz	SE2636CT-ND	1.12	.96	.80	.72	SE2636TR-ND	1,000	530.00	MA-506 20.4800M-C0
		22.11840MHz	SE2637CT-ND	1.12	.96	.80	.72	SE2637TR-ND	1,000	530.00	MA-506 22.1184M-C0
		24.00000MHz	SE2610CT-ND	1.12	.96	.80	.72	SE2610TR-ND	1,000	530.00	MA-506 24.0000M-C0
		24.57600MHz	SE2638CT-ND	1.12	.96	.80	.72	SE2638TR-ND	1,000	530.00	MA-506 24.5760M-C0
		25.00000MHz	SE2639CT-ND	1.12	.96	.80	.72	SE2639TR-ND	1,000	530.00	MA-506 25.0000M-C0
		27.00000MHz	SE2641CT-ND	1.12	.96	.80	.72	SE2641TR-ND	1,000	530.00	MA-506 27.0000M-C0:(FUND)
		28.63600MHz	SE2642CT-ND	1.12	.96	.80	.72	SE2642TR-ND	1,000	530.00	MA-506 28.6360M-C0:(30T)
		33.00000MHz	SE2647CT-ND	1.12	.96	.80	.72	SE2647TR-ND	1,000	530.00	MA-506 33.0000M-C0
		40.00000MHz	SE2615CT-ND	1.12	.96	.80	.72	SE2615TR-ND	1,000	530.00	MA-506 40.0000M-C0
		48.00000MHz	SE2651CT-ND	1.12	.96	.80	.72	SE2651TR-ND	1,000	530.00	MA-506 48.0000M-C0
		50.00000MHz	SE2616CT-ND	1.12	.96	.80	.72	SE2616TR-ND	1,000	530.00	MA-506 50.0000M-C0
		64.00000MHz	SE2653CT-ND	1.23	1.05	.88	.79	SE2653TR-ND	1,000	530.00	MA-506 64.0000M-C0
4	MC-146	32.76800kHz	SE2416CT-ND	1.40	1.20	1.00	.90	SE2416TR-ND	250	167.50	MC-146 32.768KA-AC3
5	MC-156	32.76800kHz	SE2412CT-ND	1.30	1.11	.93	.84	SE2412TR-ND	1,000	620.00	MC-156 32.7680KA-A0
6	MC-306	32.76800kHz	SE2407CT-ND	.95	.81	.68	.61	SE2407TR-ND	1,000	450.00	MC-306 32.7680K-A0
			SE2417CT-ND	.95	.81	.68	.61	SE2417TR-ND	250	112.50	MC-306 32.768K-E3
7	MC-405	32.76800kHz	SE2405CT-ND	.95	.81	.68	.61	SE2405TR-ND	1,000	450.00	MC-405 32.7680K-A0
8	MC-406	32.76800kHz	SE2418CT-ND	.95	.81	.68	.61	SE2418TR-ND	250	112.50	MC-406 32.768K-A3

CTS ATP-SM Series SMT Crystals

Specifications:
- **Calibration Tolerance:** ±0.005ppm @ 25°C
- **Temperature Tolerance:** ±100ppm
- **Operating Temperature:** 0°C ~ 70°C
- **Drive Level:** 100µW
- **Shunt Capacitance:** 7pF Max.
- **Aging (First Year):** <10ppm

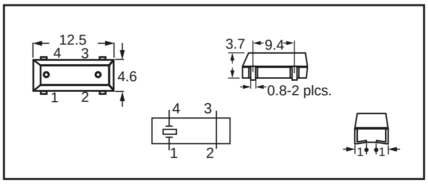

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
3.579545	18pF	CTX600-ND	2.89	2.51	2.17	1.51	ATP036SM
4.000000	20pF	CTX602-ND	2.89	2.51	2.17	1.51	ATP040SM
6.000000	20pF	CTX605-ND	2.89	2.51	2.17	1.51	ATP060SM
10.000000	20pF	CTX609-ND	2.89	2.51	2.17	1.51	ATP10ASM
11.059200	20pF	CTX610-ND	2.89	2.51	2.17	1.51	ATP111SM
12.288000	20pF	CTX612-ND	2.89	2.51	2.17	1.51	ATP122SM
16.000000	20pF	CTX616-ND	2.89	2.51	2.17	1.51	ATP16ASM
20.480000	20pF	CTX618-ND	3.15	2.73	2.48	1.72	ATP204SM
24.576000	Series	CTX619-ND	3.15	2.73	2.48	1.72	ATP245SM

400 Series SMD Crystals

Features: • Lead (Pb) Free • Stable frequency over temperature and drive level • Ideal for application to high-density circuit boards with reliable precision and excellent shock performance in wireless telecommunications devices

Specifications:
- **Frequency Stability:** ±50ppm
- **Temperature Reflow Condition:** 255°C ±5°C @ 10 seconds Max.
- **Frequency Tolerance:** ±30ppm
- **Operating Temperature:** -20°C ~ 70°C
- **Storage Temperature:** -55°C ~ 125°C
- **Drive Level:** 100µW Max.; 25µW Typ.

Model	Depth (mm)	Height (mm)	Width (mm)
405	3.2	0.9	5.0
406	3.5	1.2	6.0
407	5.0	1.2	7.0

Fig. 1

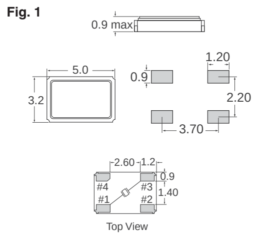

Fig. 2

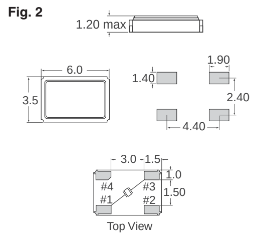

Fig. 3

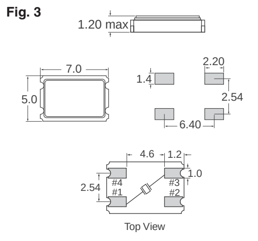

Frequency (MHz)	Operating Mode	Load Capacitance	Shunt Capacitance	ESR (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	CTS Part No.
Fig. 1 - 405 Series											
11.05920	Fundamental	13.0pF	7pF	50	CTX638CT-ND	3.11	2.49	2.08	CTX638TR-ND	1204.00	405C35B11M05920
12.00000					CTX639CT-ND	3.11	2.49	2.08	CTX639TR-ND	1204.00	405C35B12M00000
12.80000					CTX640CT-ND	3.11	2.49	2.08	CTX640TR-ND	1204.00	405C35B12M80000
13.00000					CTX641CT-ND	3.11	2.49	2.08	CTX641TR-ND	1204.00	405C35B13M00000
14.31818					CTX642CT-ND	3.11	2.49	2.08	CTX642TR-ND	1204.00	405C35B14M31818
14.40000					CTX643CT-ND	3.11	2.49	2.08	CTX643TR-ND	1204.00	405C35B14M40000
14.74560					CTX644CT-ND	3.11	2.49	2.08	CTX644TR-ND	1204.00	405C35B14M74560
15.36000					CTX645CT-ND	3.11	2.49	2.08	CTX645TR-ND	1204.00	405C35B15M36000
16.00000					CTX646CT-ND	3.11	2.49	2.08	CTX646TR-ND	1204.00	405C35B16M00000
16.36800					CTX647CT-ND	3.11	2.49	2.08	CTX647TR-ND	1204.00	405C35B16M36800
19.20000					CTX648CT-ND	3.11	2.49	2.08	CTX648TR-ND	1204.00	405C35B19M20000
19.68000					CTX649CT-ND	3.11	2.49	2.08	CTX649TR-ND	1204.00	405C35B19M68000
20.00000					CTX650CT-ND	3.11	2.49	2.08	CTX650TR-ND	1204.00	405C35B20M00000
24.00000					CTX651CT-ND	3.11	2.49	2.08	CTX651TR-ND	1204.00	405C35B24M00000
25.00000					CTX652CT-ND	3.11	2.49	2.08	CTX652TR-ND	1204.00	405C35B25M00000
26.00000					CTX653CT-ND	3.11	2.49	2.08	CTX653TR-ND	1204.00	405C35B26M00000
32.00000					CTX654CT-ND	3.11	2.49	2.08	CTX654TR-ND	1204.00	405C35B32M00000
33.00000					CTX655CT-ND	3.11	2.49	2.08	CTX655TR-ND	1204.00	405C35B33M00000
40.00000					CTX656CT-ND	3.11	2.49	2.08	CTX656TR-ND	1204.00	405C35B40M00000
44.00000					CTX657CT-ND	3.56	2.85	2.38	CTX657TR-ND	1378.00	405C35B44M00000
Fig. 2 - 406 Series											
18.43200	Fundamental	13.0pF	4pF	40	CTX668CT-ND	2.81	2.25	1.88	CTX668TR-ND	1088.00	406C35B18M43200
19.44000					CTX669CT-ND	2.81	2.25	1.88	CTX669TR-ND	1088.00	406C35B19M44000
20.48000					CTX670CT-ND	2.81	2.25	1.88	CTX670TR-ND	1088.00	406C35B20M48000
22.00000					CTX671CT-ND	2.81	2.25	1.88	CTX671TR-ND	1088.00	406C35B22M00000
24.57600					CTX672CT-ND	2.81	2.25	1.88	CTX672TR-ND	1088.00	406C35B24M57600
27.00000					CTX673CT-ND	2.81	2.25	1.88	CTX673TR-ND	1088.00	406C35B27M00000
30.00000					CTX674CT-ND	2.81	2.25	1.88	CTX674TR-ND	1088.00	406C35B30M00000
32.76800					CTX675CT-ND	2.81	2.25	1.88	CTX675TR-ND	1088.00	406C35B32M76800
35.32800					CTX676CT-ND	2.81	2.25	1.88	CTX676TR-ND	1088.00	406C35B35M32800
38.88000					CTX677CT-ND	2.81	2.25	1.88	CTX677TR-ND	1088.00	406C35B38M88000
44.54500					CTX678CT-ND	3.11	2.49	2.08	CTX678TR-ND	1204.00	406C35B44M54500
48.00000					CTX679CT-ND	3.11	2.49	2.08	CTX679TR-ND	1204.00	406C35B48M00000
10.00000				60	CTX658CT-ND	2.81	2.25	1.88	CTX658TR-ND	1088.00	406C35B10M00000
10.24500					CTX659CT-ND	2.81	2.25	1.88	CTX659TR-ND	1088.00	406C35B10M24500
12.28800					CTX660CT-ND	2.81	2.25	1.88	CTX660TR-ND	1088.00	406C35B12M28800
12.68800					CTX661CT-ND	2.81	2.25	1.88	CTX661TR-ND	1088.00	406C35B12M68800
13.00000					CTX662CT-ND	2.81	2.25	1.88	CTX662TR-ND	1088.00	406C35B13M00000
13.22500					CTX663CT-ND	2.81	2.25	1.88	CTX663TR-ND	1088.00	406C35B13M22500
14.00000					CTX664CT-ND	2.81	2.25	1.88	CTX664TR-ND	1088.00	406C35B14M00000
14.31818					CTX665CT-ND	2.81	2.25	1.88	CTX665TR-ND	1088.00	406C35B14M31818
14.85000					CTX667CT-ND	2.81	2.25	1.88	CTX667TR-ND	1088.00	406C35B14M85000
Fig. 3 - 407 Series											
16.38400	Fundamental	20.0pF	4pF	40	CTX682CT-ND	2.81	2.25	1.88	CTX682TR-ND	1088.00	407C35E16M38400
16.67000					CTX683CT-ND	2.81	2.25	1.88	CTX683TR-ND	1088.00	407C35E16M67000
22.11840					CTX684CT-ND	2.81	2.25	1.88	CTX684TR-ND	1088.00	407C35E22M11840
29.49120					CTX685CT-ND	2.81	2.25	1.88	CTX685TR-ND	1088.00	407C35E29M49120
36.00000					CTX686CT-ND	3.11	2.49	2.08	CTX686TR-ND	1204.00	407C35E36M00000
44.73600					CTX687CT-ND	3.11	2.49	2.08	CTX687TR-ND	1204.00	407C35E44M73600
9.60000				60	CTX680CT-ND	2.81	2.25	1.88	CTX680TR-ND	1088.00	407C35E09M60000
12.50000					CTX681CT-ND	2.81	2.25	1.88	CTX681TR-ND	1088.00	407C35E12M50000
50.00000	3rd Overtone	20.0pF	4pF	80	CTX688CT-ND	3.11	2.49	2.08	CTX688TR-ND	1204.00	407C35E50M00000

ATS Series Crystals

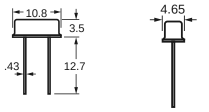

Specifications:
• **Frequency Tolerance:** ±50ppm • **Shunt Capacitance:** 7pF Max. • **Drive Level:** 100µW • **Operating Temperature:** 0°C ~ 70°C • **Operating Mode:** Fundamental

Frequency (MHz)	Load Capacitance	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
3.579545	18.0pF	CTX400-ND	1.31	1.14	1.03	.72	ATS036
3.686400	20.0pF	CTX401-ND	1.31	1.14	1.03	.72	ATS037
4.000000	20.0pF	CTX402-ND	1.31	1.14	1.03	.72	ATS040
4.915200	20.0pF	CTX403-ND	1.31	1.14	1.03	.72	ATS042
5.068800	20.0pF	CTX404-ND	1.31	1.14	1.03	.72	ATS050
6.000000	20.0pF	CTX405-ND	1.31	1.14	1.03	.72	ATS060
8.000000	20.0pF	CTX406-ND	1.31	1.14	1.03	.72	ATS08A
9.830400	20.0pF	CTX407-ND	1.31	1.14	1.03	.72	ATS098
10.000000	Series	CTX408-ND	1.31	1.14	1.03	.72	ATS100
11.059200	20.0pF	CTX409-ND	1.31	1.14	1.03	.72	ATS111
12.000000	Series	CTX410-ND	1.31	1.14	1.03	.72	ATS120
12.288000	20.0pF	CTX411-ND	1.31	1.14	1.03	.72	ATS122
14.318180	Series	CTX412-ND	1.31	1.14	1.03	.72	ATS143
15.360000	20.0pF	CTX413-ND	1.31	1.14	1.03	.72	ATS15A
16.000000	Series	CTX414-ND	1.31	1.14	1.03	.72	ATS160
16.000000	20.0pF	CTX415-ND	1.31	1.14	1.03	.72	ATS16A
20.000000	Series	CTX416-ND	1.31	1.14	1.03	.72	ATS200
20.480000	20.0pF	CTX417-ND	1.69	1.47	1.33	.92	ATS204
24.576000	Series	CTX418-ND	1.69	1.47	1.33	.92	ATS245
25.000000	Series	CTX419-ND	1.69	1.47	1.33	.92	ATS250

HC49INS-ND Base Insulator... **$.90/10** **$7.50/100**

ATS-SM Series Crystals

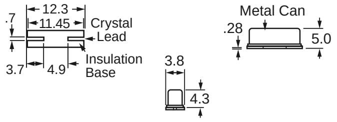

Specifications:
• **Frequency Tolerance:** ±50ppm • **Shunt Capacitance:** 7.0pF Max. • **Drive Level:** 100µW • **Operating Temperature:** 0°C ~ 70°C • **Operating Mode:** Fundamental

Frequency (MHz)	Load Cap.	Digi-Key Part No.	Bulk Price Each 1	10	50	100	Digi-Key Part No.	T & R Pricing 1,000	CTS Part No.
3.579545	18.0pF	CTX500-ND	1.50	1.30	1.13	.79	CTX500TR-ND	540.00	ATS036SM-T
3.686400	20.0pF	CTX501-ND	1.50	1.30	1.13	.79	CTX501TR-ND	540.00	ATS037SM-T
4.000000	20.0pF	CTX502-ND	1.50	1.30	1.13	.79	CTX502TR-ND	540.00	ATS040SM-T
4.915200	20.0pF	CTX503-ND	1.50	1.30	1.13	.79	CTX503TR-ND	540.00	ATS042SM-T
5.068800	20.0pF	CTX504-ND	1.50	1.30	1.13	.79	CTX504TR-ND	540.00	ATS050SM-T
6.000000	20.0pF	CTX505-ND	1.50	1.30	1.13	.79	CTX505TR-ND	540.00	ATS060SM-T
8.000000	20.0pF	CTX506-ND	1.50	1.30	1.13	.79	CTX506TR-ND	540.00	ATS08ASM-T
9.830400	20.0pF	CTX507-ND	1.50	1.30	1.13	.79	CTX507TR-ND	540.00	ATS098SM-T
10.000000	Series	CTX508-ND	1.50	1.30	1.13	.79	CTX508TR-ND	540.00	ATS100SM-T
11.059200	20.0pF	CTX509-ND	1.50	1.30	1.13	.79	CTX509TR-ND	540.00	ATS111SM-T
12.000000	Series	CTX510-ND	1.50	1.30	1.13	.79	CTX510TR-ND	540.00	ATS120SM-T
12.288000	20.0pF	CTX511-ND	1.50	1.30	1.13	.79	CTX511TR-ND	540.00	ATS122SM-T
14.318180	Series	CTX512-ND	1.50	1.30	1.13	.79	CTX512TR-ND	540.00	ATS143SM-T
15.360000	20.0pF	CTX513-ND	1.50	1.30	1.13	.79	CTX513TR-ND	540.00	ATS15ASM-T
16.000000	Series	CTX514-ND	1.50	1.30	1.13	.79	CTX514TR-ND	540.00	ATS160SM-T
20.000000	Series	CTX515-ND	1.50	1.30	1.13	.79	CTX515TR-ND	540.00	ATS200SM-T
20.480000	20.0pF	CTX516-ND	1.88	1.63	1.43	1.00	CTX516TR-ND	680.00	ATS204SM-T
24.576000	Series	CTX517-ND	1.88	1.63	1.43	1.00	CTX517TR-ND	680.00	ATS245SM-T

Microprocessor Crystals

Specifications: • **Frequency Tolerance:** ±50ppm • **Temperature Stability:** ±0.005% (±50ppm) @ 25°C • Fully hermetic resistance weld package • Low start-up resistance

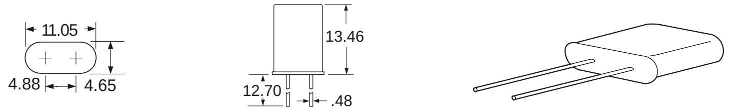

Frequency (MHz)	Load Capacit.	Usage	Digi-Key Part No.	Price Each 1	10	100	CTS Part No.
1.843200	13.0pF	—	CTX067-ND	3.22	2.69	1.97	MP018S
2.000000	20.0pF	—	CTX068-ND	3.22	2.69	1.97	MP020S
2.457600	32.0pF	—	CTX069-ND	2.08	1.74	1.27	MP024S
3.579545	18.0pF	MM5369 (Color Burst), IM6102, PPS 8, MC6801, MC6802, MC6803, MC6809, CDP1802, CDP1802C, CDP1804, CDP1804C	CTX049-ND	.94	.79	.57	MP036S
3.686400	20.0pF	—	CTX071-ND	.94	.79	.57	MP037
4.000000	Series	Pace, MC6875, Z80, Z80A, TMS9940	CTX080-ND	.94	.79	.57	MP04A
4.000000	20.0pF	MCS40, 4004, 4040, 4201; MC6802, 6808, 6809; MK3870, 3872, 3876, 3883; IM6102, CDP1802, 1802C, 1804, 1804C	CTX006-ND	.94	.79	.57	MP040
4.194304	12.0pF	ICM7038, ICM7049, ICM7213, CDP1802, CDP1802C, CDP1804, CDP1804C	CTX007-ND	.94	.79	.57	MP041
4.915200	20.0pF	CDP1802, CDP1802C, CDP1804, CDP1804C	CTX050-ND	.94	.79	.57	MP042
5.000000	Series	CDP1802, CDP1802C, CDP1803, CDP1804, CDP1804C, TMS9985, 9940, IM6100A	CTX081-ND	.94	.79	.57	MP05B
5.000000	20.0pF	General Purpose, CDP1802, CDP1802C, CDP1804, CDP1804C	CTX051-ND	.94	.79	.57	MP05A
5.068800	Series	COM5016, COM5016T Dual Brg.	CTX052-ND	.94	.79	.57	MP050
6.000000	20.0pF	MCS48, MCS8035, MCS8041, MCS8048, MCS8741, MCS8748, IM8048, IM8748, CDP1802, CDP1802C, CDP1804, CDP1804C, MC68A09	CTX026-ND	.94	.79	.57	MP060
6.144000	20.0pF	MCS8086, MCS85, CDP1802, CDP1802C, CDP1804, CDP1804C	CTX054-ND	.94	.79	.57	MP061
7.372800	Series	—	CTX074-ND	.94	.79	.57	MP073
8.000000	Series	8 x 300, MC6875, MC68000, AMZ8000, Z8000	CTX056-ND	.94	.79	.57	MP080
8.000000	20.0pF	IM6100A, CDP1807, Z8, 9940 B, MC68B09	CTX082-ND	.94	.79	.57	MP080A
9.830400	20.0pF	General Purpose	CTX084-ND	.94	.79	.57	MP098
10.000000	Series	General Purpose	CTX057-ND	.94	.79	.57	MP100
10.000000	30.0pF	MCS85, MCS8085A 2, MC9940 10	CTX083-ND	.94	.79	.57	MP101
10.738635	32.0pF	TI9918A	CTX085-ND	.94	.79	.57	MP107
11.000000	18.0pF	MCS48, MCS8039, MCS8049	CTX086-ND	.94	.79	.57	MP110
11.059200	Series	—	CTX078-ND	.94	.79	.57	MP111
12.000000	Series	MCS86, MCS8086/8284, MCS8202 RAM Controller, MCS9940-12	CTX058-ND	.94	.79	.57	MP120
12.288000	32.0pF	General Purpose	CTX087-ND	.94	.79	.57	MP122
14.318180	Series	General Purpose	CTX088-ND	.94	.79	.57	MP143
14.745600	Series	General Purpose	CTX089-ND	.94	.79	.57	MP147
15.000000	Series	MCS86, MCS8086/8284, MCS8202 RAM Controller	CTX059-ND	.94	.79	.57	MP150
16.000000	Series	General Purpose	CTX077-ND	.94	.79	.57	MP160
18.432000	Series	MCS80, MCS8080A/8224	CTX061-ND	.94	.79	.57	MP184
19.660800	Series	General Purpose	CTX090-ND	.94	.79	.57	MP196
20.000000	Series	MCS80, MCS8080A/8224	CTX062-ND	.94	.79	.57	MP200
22.118400	Series	MCS80, MCS8080A/8224	CTX063-ND	1.51	1.26	.92	MP221
24.000000	Series	MCS86, MCS8086, MCS8284	CTX091-ND	1.51	1.26	.92	MP240
24.576000	Series	General Purpose	CTX092-ND	1.51	1.26	.92	MP245
25.000000	Series	8202 RAM Controller	CTX093-ND	1.51	1.26	.92	MP250

HC49INS-ND Base Insulator.. **$.90/10** **$7.50/100**

357L Series Surface Mount VCXO

Specifications: • **Output Voltage Level**: Logic “1” Minimum 0.9V; Logic “0” Max. 0.1V • **Output Transition Rise and Fall Time:** 5.0ns • **Output Duty Cycle (SYM)**: 45% Minimum, 55% Max. @ 50% level • **Phase Jitter (Bandwidth 12kHz-20MHz):** 1ps RMS Max. • **Linearity:** 10% • **Input Impedance:** 50kΩ Minimum. • **Modulation Roll-Off:** 10kHz @ -3dB

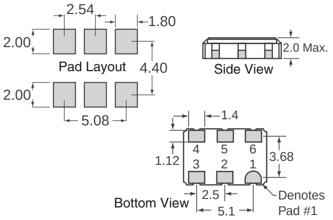

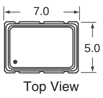

Enable Truth Table	
Pin 2	**Pin 4**
“1”	Output
“0”	High Imp.
Open	Output

Pin Connection	
1	Control Voltage
2	Tri-State Enable
3	Circuit/Package Ground
4	RF Output
5	Not Connected Internally
6	Supply Voltage

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	CTS Part No.
1.5440	CTX630CT-ND	9.86	7.89	6.58	3814.00	357LB3I001M5440
4.0960	CTX626CT-ND	9.86	7.89	6.58	3814.00	357LB3I004M0960
6.1760	CTX631CT-ND	9.86	7.89	6.58	3814.00	357LB3I006M1760
16.3840	CTX632CT-ND	9.86	7.89	6.58	3814.00	357LB3I016M3840
19.4400	CTX627CT-ND	9.86	7.89	6.58	3814.00	357LB3I019M4400
20.0000	CTX633CT-ND	9.86	7.89	6.58	3814.00	357LB3I020M0000
27.0000	CTX634CT-ND	9.86	7.89	6.58	3814.00	357LB3I027M0000
32.7680	CTX635CT-ND	10.99	8.79	7.33	4249.00	357LB3I032M7680
35.3280	CTX628CT-ND	10.99	8.79	7.33	4249.00	357LB3I035M3280
38.8800	CTX636CT-ND	10.99	8.79	7.33	4249.00	357LB3I038M8800
40.0000	CTX637CT-ND	10.99	8.79	7.33	4249.00	357LB3I040M0000
44.7360	CTX629CT-ND	11.44	9.15	7.63	4423.00	357LB3I044M7360

* For Tape & Reel Part No., change CT-ND to TR-ND.

CTS® 636 Series SMD Clock Oscillators

Features: • RoHS Compliant • HCMOS • Output enable standard • Standard 5x3.2mm surface mount footprint • Ceramic construction for long-term reliability **Specifications:** • **Enable Input Voltage:** 2V Minimum • **Disable Input Voltage:** 0.8V Max. • **Phase Jitter (Bandwidth 12kHz-20MHz):** 1ps RMS Max. •**Frequency Tolerance:** ±50ppm • **Supply Voltage:** 3.3V • **Supply Current:** 20mA Max. • **Operating Temperature:** -20°C ~ 70°C • **Rise/Fall Time:** 5ns Max. • **Output Load CMOS:** 15pF • **Duty Cycle:** 45% ~ 55% • **Start-up Time:** 10ms Max. • **Stand-by Current:** 15µA Max.

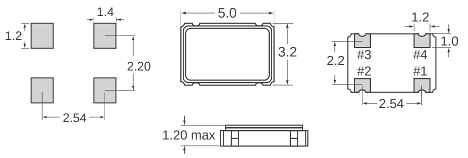

Pin Connection	
1	Enable
2	Circuit/Pkg. Gnd.
3	RF Output
4	Supply Voltage

Enable Truth Table	
Pin 1	Pin 3
"1"	Output
"0"	High Imp.
Open	Output

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	CTS Part No.
14.31818	CTX689CT-ND	5.06	4.05	3.38	CTX689TR-ND	1958.00	636L3C014M31818
14.74560	CTX690CT-ND	5.06	4.05	3.38	CTX690TR-ND	1958.00	636L3C014M74560
16.00000	CTX691CT-ND	5.06	4.05	3.38	CTX691TR-ND	1958.00	636L3C016M00000
16.38400	CTX692CT-ND	5.06	4.05	3.38	CTX692TR-ND	1958.00	636L3C016M38400
18.43200	CTX693CT-ND	4.88	3.90	3.25	CTX693TR-ND	1958.00	636L3C018M43200
20.00000	CTX694CT-ND	5.06	4.05	3.38	CTX694TR-ND	1958.00	636L3C020M00000
20.48000	CTX695CT-ND	5.06	4.05	3.38	CTX695TR-ND	1958.00	636L3C020M48000
24.00000	CTX696CT-ND	5.06	4.05	3.38	CTX696TR-ND	1958.00	636L3C024M00000
25.00000	CTX697CT-ND	5.06	4.05	3.38	CTX697TR-ND	1958.00	636L3C025M00000
32.00000	CTX698CT-ND	4.88	3.90	3.25	CTX698TR-ND	1885.00	636L3C032M00000
32.76800	CTX699CT-ND	5.06	4.05	3.38	CTX699TR-ND	1958.00	636L3C032M76800
33.00000	CTX700CT-ND	5.06	4.05	3.38	CTX700TR-ND	1958.00	636L3C033M00000
44.00000	CTX701CT-ND	5.06	4.05	3.38	CTX701TR-ND	1958.00	636L3C044M00000
48.00000	CTX702CT-ND	5.06	4.05	3.38	CTX702TR-ND	1958.00	636L3C048M00000
75.00000	CTX703CT-ND	5.44	4.35	3.63	CTX703TR-ND	2103.00	636L3C075M00000

Surface Mount Clock Oscillator

Features: • Standard miniature surface mount footprint • PCMCIA Type II and III compatible • C-MOS/TTL compatible • 16mm Tape and Reel • Ceramic construction for long-term reliability • Seam welded and shielded with Kovar cover

Specifications: • **Frequency Stability:** 3C and 3I: ±50 ppm, 5I: ±25 ppm • **Supply Voltage:** CB3: 4.5V ~ 5.5V; CB3LV: 3.0V ~ 3.6V • **Supply Current (Max.):** 1.5MHz ~ 20.00MHz CB3: 25mA; CB3LV: 12mA; 20.1MHz ~ 80MHz CB3: 50mA; CB3LV: 40mA; 80.1MHz ~ 133.33MHz CB3: 100mA; CB3LV: 60mA • **Operating Temperature:** 3C: -20°C ~ 70°C 3I and 5I: -40°C ~ 85°C • **Rise and Fall Time (Max.):** 1.5MHz ~ 20.00MHz CB3: 10ns; CB3LV: 8ns; 20.1MHz ~ 80MHz CB3: 8ns; CB3LV: 4ns; 80.1MHz ~ 133.333MHz CB3: 5ns; CB3LV: 3ns • **Output Load:** 1.5MHz ~ 50.0MHz: 50pf; 50.1MHz ~ 80.0MHz: 30pf; 80.1MHz ~ 133.333MHz: 15pF • **Enable Input Voltage:** 2V Min. • **Disable Input Voltage:** 0.8V Max.

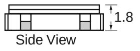

Pin Connection	
1	Output Enable
2	Cover/CKT GND
3	Out
4	Vcc

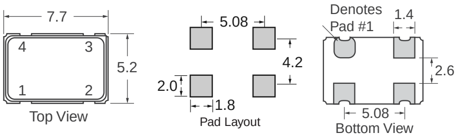

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	CTS Part No.
CB3 Surface Mount Clock Oscillators							
1.544000	CTX290CT-ND	5.08	4.69	2.69	CTX290TR-ND	1422.47	CB3-3C-1M5440-T
1.843200	CTX291CT-ND	5.08	4.69	2.69	CTX291TR-ND	1422.47	CB3-3C-1M8432-T
3.686400	CTX260CT-ND	3.75	3.46	1.99	CTX260TR-ND	1050.23	CB3-3C-3M6864-T
4.000000	CTX261CT-ND	5.08	4.69	2.69	CTX261TR-ND	1422.47	CB3-3C-4M0000-T
6.176000	CTX262CT-ND	5.08	4.69	2.69	CTX262TR-ND	1422.47	CB3-3C-6M1760-T
7.372800	CTX263CT-ND	5.08	4.69	2.69	CTX263TR-ND	1422.47	CB3-3C-7M3728-T
8.000000	CTX264CT-ND	5.08	4.69	2.69	CTX264TR-ND	1422.47	CB3-3C-8M0000-T
10.000000	CTX265CT-ND	5.08	4.69	2.69	CTX265TR-ND	1422.47	CB3-3C-10M0000-T
12.000000	CTX292CT-ND	5.08	4.69	2.69	CTX292TR-ND	1422.47	CB3-3C-12M0000-T
12.288000	CTX266CT-ND	5.08	4.69	2.69	CTX266TR-ND	1422.47	CB3-3C-12M2880-T
12.352000	CTX267CT-ND	5.08	4.69	2.69	CTX267TR-ND	1422.47	CB3-3C-12M3520-T
14.318180	CTX268CT-ND	5.08	4.69	2.69	CTX268TR-ND	1422.47	CB3-3C-14M31818-T
15.360000	CTX269CT-ND	5.08	4.69	2.69	CTX269TR-ND	1422.47	CB3-3C-15M3600-T
16.000000	CTX270CT-ND	5.08	4.69	2.69	CTX270TR-ND	1422.47	CB3-3C-16M0000-T
16.000000	CTX304CT-ND	5.08	4.69	2.69	CTX304TR-ND	1422.00	CB3-3I-16M0000-T
16.384000	CTX271CT-ND	5.08	4.69	2.69	CTX271TR-ND	1422.47	CB3-3C-16M3840-T
18.432000	CTX293CT-ND	5.08	4.69	2.69	CTX293TR-ND	1422.47	CB3-3C-18M4320-T
18.432000	CTX300CT-ND	5.70	5.25	3.02	CTX300TR-ND	1595.00	CB3-3I-18M4320-T
19.440000	CTX272CT-ND	5.08	4.69	2.69	CTX272TR-ND	1422.47	CB3-3C-19M4400-T
20.000000	CTX273CT-ND	3.75	3.46	1.99	CTX273TR-ND	1050.23	CB3-3C-20M0000-T
20.000000	CTX306CT-ND	3.42	3.15	1.81	CTX306TR-ND	957.00	CB3-3I-20M0000-T
20.480000	CTX274CT-ND	5.08	4.69	2.69	CTX274TR-ND	1422.47	CB3-3C-20M4800-T
24.000000	CTX294CT-ND	5.08	4.69	2.69	CTX294TR-ND	1422.47	CB3-3C-24M0000-T
24.704000	CTX275CT-ND	5.08	4.69	2.69	CTX275TR-ND	1422.47	CB3-3C-24M7040-T
25.000000	CTX276CT-ND	3.75	3.46	1.99	CTX276TR-ND	1050.23	CB3-3C-25M0000-T
29.491200	CTX295CT-ND	5.08	4.69	2.69	CTX295TR-ND	1422.47	CB3-3C-29M4912-T
30.000000	CTX296CT-ND	5.08	4.69	2.69	CTX296TR-ND	1422.47	CB3-3C-30M0000-T
32.000000	CTX277CT-ND	3.75	3.46	1.99	CTX277TR-ND	1050.23	CB3-3C-32M0000-T
32.768000	CTX278CT-ND	5.08	4.69	2.69	CTX278TR-ND	1422.47	CB3-3C-32M7680-T
33.333000	CTX279CT-ND	3.75	3.46	1.99	CTX279TR-ND	1050.23	CB3-3C-33M3330-T
40.000000	CTX280CT-ND	3.75	3.46	1.99	CTX280TR-ND	1050.23	CB3-3C-40M0000-T
40.000000	CTX314CT-ND	5.08	4.69	2.69	CTX314TR-ND	1422.00	CB3-3I-40M0000-T
44.736000	CTX281CT-ND	5.37	4.95	2.84	CTX281TR-ND	1502.23	CB3-3C-44M7360-T
45.000000	CTX297CT-ND	5.37	4.95	2.84	CTX297TR-ND	1502.23	CB3-3C-45M0000-T
49.152000	CTX282CT-ND	5.37	4.95	2.84	CTX282TR-ND	1502.23	CB3-3C-49M1520-T
50.000000	CTX283CT-ND	3.75	3.46	1.99	CTX283TR-ND	1050.23	CB3-3C-50M0000-T
51.840000	CTX284CT-ND	5.70	5.25	3.02	CTX284TR-ND	1595.29	CB3-3C-51M8400-T
60.000000	CTX285CT-ND	5.70	5.25	2.95	CTX285TR-ND	1595.29	CB3-3C-60M0000-T
64.000000	CTX286CT-ND	5.70	5.25	2.95	CTX286TR-ND	1595.29	CB3-3C-64M0000-T
66.666600	CTX287CT-ND	5.70	5.25	2.95	CTX287TR-ND	1595.29	CB3-3C-66M6666-T
72.000000	CTX288CT-ND	5.70	5.25	3.06	CTX288TR-ND	1595.29	CB3-3C-72M0000-T
80.000000	CTX289CT-ND	5.70	5.25	3.06	CTX289TR-ND	1595.29	CB3-3C-80M0000-T
CB3LV Surface Mount Clock Oscillators							
1.544000	CTX290LVCT-ND	5.08	4.69	2.69	CTX290LVTR-ND	1422.47	CB3LV-3C-1M5440-T
1.843200	CTX291LVCT-ND	5.08	4.69	2.69	CTX291LVTR-ND	1422.47	CB3LV-3C-1M8432-T
3.686400	CTX260LVCT-ND	3.75	3.46	1.99	CTX260LVTR-ND	1050.23	CB3LV-3C-3M6864-T
4.000000	CTX261LVCT-ND	5.08	4.69	2.69	CTX261LVTR-ND	1422.47	CB3LV-3C-4M0000-T
6.176000	CTX262LVCT-ND	5.08	4.69	2.69	CTX262LVTR-ND	1422.47	CB3LV-3C-6M1760-T
7.372800	CTX263LVCT-ND	5.08	4.69	2.69	CTX263LVTR-ND	1422.47	CB3LV-3C-7M3728-T
7.372800	CTX325LVCT-ND	5.08	4.69	2.69	CTX325LVTR-ND	1498.00	CB3LV-3I-7M3728-T
8.000000	CTX264LVCT-ND	5.08	4.69	2.69	CTX264LVTR-ND	1422.47	CB3LV-3C-8M0000-T
8.000000	CTX301LVCT-ND	5.08	4.69	2.69	CTX301LVTR-ND	1422.00	CB3LV-3I-8M0000-T
8.192000	CTX302LVCT-ND	5.08	4.69	2.69	CTX302LVTR-ND	1422.00	CB3LV-3I-8M1920-T
CB3LV Surface Mount Clock Oscillators							
10.000000	CTX265LVCT-ND	5.08	4.69	2.69	CTX265LVTR-ND	1422.47	CB3LV-3C-10M0000-T
12.000000	CTX292LVCT-ND	5.08	4.69	2.69	CTX292LVTR-ND	1422.47	CB3LV-3C-12M0000-T
12.000000	CTX303LVCT-ND	5.70	5.25	3.02	CTX303LVTR-ND	1595.00	CB3LV-3I-12M0000-T
12.288000	CTX266LVCT-ND	5.08	4.69	2.69	CTX266LVTR-ND	1422.47	CB3LV-3C-12M2880-T
12.352000	CTX267LVCT-ND	5.08	4.69	2.69	CTX267LVTR-ND	1422.47	CB3LV-3C-12M3520-T
14.318180	CTX268LVCT-ND	5.08	4.69	2.69	CTX268LVTR-ND	1422.47	CB3LV-3C-14M31818-T
15.360000	CTX269LVCT-ND	5.08	4.69	2.69	CTX269LVTR-ND	1422.47	CB3LV-3C-15M3600-T
16.000000	CTX270LVCT-ND	5.08	4.69	2.69	CTX270LVTR-ND	1422.47	CB3LV-3C-16M0000-T
16.384000	CTX271LVCT-ND	5.08	4.69	2.69	CTX271LVTR-ND	1422.47	CB3LV-3C-16M3840-T
16.384000	CTX321LVCT-ND	6.79	6.26	3.59	CTX321LVTR-ND	1901.00	CB3LV-5I-16M3840-T
18.432000	CTX293LVCT-ND	5.08	4.69	2.69	CTX293LVTR-ND	1422.47	CB3LV-3C-18M4320-T
18.432000	CTX305LVCT-ND	5.08	4.69	2.69	CTX305LVTR-ND	1422.00	CB3LV-3I-18M4320-T
19.440000	CTX272LVCT-ND	5.08	4.69	2.69	CTX272LVTR-ND	1422.47	CB3LV-3C-19M4400-T
20.000000	CTX273LVCT-ND	3.75	3.46	1.99	CTX273LVTR-ND	1050.23	CB3LV-3C-20M0000-T
20.000000	CTX306LVCT-ND	5.08	4.69	2.69	CTX306LVTR-ND	1422.00	CB3LV-3I-20M0000-T
20.000000	CTX322LVCT-ND	6.79	6.26	3.59	CTX322LVTR-ND	1901.00	CB3LV-5I-20M0000-T
20.480000	CTX274LVCT-ND	5.08	4.69	2.69	CTX274LVTR-ND	1422.47	CB3LV-3C-20M4800-T
24.000000	CTX294LVCT-ND	5.08	4.69	2.69	CTX294LVTR-ND	1422.47	CB3LV-3C-24M0000-T
24.000000	CTX307LVCT-ND	5.70	5.25	3.02	CTX307LVTR-ND	1422.00	CB3LV-3I-24M0000-T
24.576000	CTX326LVCT-ND	5.08	4.69	2.69	CTX326LVTR-ND	1498.00	CB3LV-3I-24M5760-T
24.704000	CTX275LVCT-ND	5.08	4.69	2.69	CTX275LVTR-ND	1422.47	CB3LV-3C-24M7040-T
25.000000	CTX276LVCT-ND	3.75	3.46	1.99	CTX276LVTR-ND	1050.23	CB3LV-3C-25M0000-T
25.000000	CTX308LVCT-ND	5.08	4.69	2.69	CTX308LVTR-ND	1422.00	CB3LV-3I-25M0000-T
25.000000	CTX323LVCT-ND	6.79	6.26	3.59	CTX323LVTR-ND	1901.00	CB3LV-5I-25M0000-T
27.000000	CTX324LVCT-ND	6.79	6.26	3.59	CTX324LVTR-ND	1901.00	CB3LV-5I-27M0000-T
29.491200	CTX295LVCT-ND	5.08	4.69	2.69	CTX295LVTR-ND	1422.47	CB3LV-3C-29M4912-T
30.000000	CTX296LVCT-ND	5.08	4.69	2.69	CTX296LVTR-ND	1422.47	CB3LV-3C-30M0000-T
30.000000	CTX309LVCT-ND	3.42	3.15	1.81	CTX309LVTR-ND	957.00	CB3LV-3I-30M0000-T
32.000000	CTX277LVCT-ND	3.75	3.46	1.99	CTX277LVTR-ND	1050.23	CB3LV-3C-32M0000-T
32.000000	CTX310LVCT-ND	5.08	4.69	2.69	CTX310LVTR-ND	1422.00	CB3LV-3I-32M0000-T
32.768000	CTX278LVCT-ND	5.08	4.69	2.69	CTX278LVTR-ND	1422.47	CB3LV-3C-32M7680-T
32.768000	CTX311LVCT-ND	5.08	4.69	2.69	CTX311LVTR-ND	1422.00	CB3LV-3I-32M7680-T
33.000000	CTX312LVCT-ND	5.08	4.69	2.69	CTX312LVTR-ND	1422.00	CB3LV-3I-33M0000-T
33.333000	CTX279LVCT-ND	3.75	3.46	1.99	CTX279LVTR-ND	1050.23	CB3LV-3C-33M3330-T
33.333300	CTX313LVCT-ND	5.08	4.69	2.69	CTX313LVTR-ND	1422.00	CB3LV-3I-33M3333-T
40.000000	CTX280LVCT-ND	3.75	3.46	1.99	CTX280LVTR-ND	1050.23	CB3LV-3C-40M0000-T
40.000000	CTX314LVCT-ND	5.08	4.69	2.69	CTX314LVTR-ND	1422.00	CB3LV-3I-40M0000-T
44.736000	CTX281LVCT-ND	5.37	4.95	2.84	CTX281LVTR-ND	1502.23	CB3LV-3C-44M7360-T
45.000000	CTX297LVCT-ND	5.37	4.95	2.84	CTX297LVTR-ND	1502.23	CB3LV-3C-45M0000-T
48.000000	CTX315LVCT-ND	5.08	4.69	2.69	CTX315LVTR-ND	1422.00	CB3LV-3I-48M0000-T
49.152000	CTX282LVCT-ND	5.37	4.95	2.84	CTX282LVTR-ND	1502.23	CB3LV-3C-49M1520-T
50.000000	CTX283LVCT-ND	3.75	3.46	1.99	CTX283LVTR-ND	1050.23	CB3LV-3C-50M0000-T
50.000000	CTX327LVCT-ND	5.08	4.69	2.69	CTX327LVTR-ND	1498.00	CB3LV-3I-50M0000-T
51.840000	CTX284LVCT-ND	5.70	5.25	3.02	CTX284LVTR-ND	1595.29	CB3LV-3C-51M8400-T
60.000000	CTX285LVCT-ND	5.70	5.25	3.02	CTX285LVTR-ND	1595.29	CB3LV-3C-60M0000-T
64.000000	CTX286LVCT-ND	5.70	5.25	3.02	CTX286LVTR-ND	1595.29	CB3LV-3C-64M0000-T
64.000000	CTX328LVCT-ND	5.70	5.25	3.02	CTX328LVTR-ND	1680.00	CB3LV-3I-64M0000-T
66.000000	CTX316LVCT-ND	5.70	5.25	3.02	CTX316LVTR-ND	1595.00	CB3LV-3I-66M0000-T
66.666600	CTX287LVCT-ND	5.70	5.25	3.02	CTX287LVTR-ND	1595.29	CB3LV-3C-66M6666-T
72.000000	CTX288LVCT-ND	5.70	5.25	3.02	CTX288LVTR-ND	1595.29	CB3LV-3C-72M0000-T
80.000000	CTX289LVCT-ND	5.70	5.25	3.02	CTX289LVTR-ND	1595.29	CB3LV-3C-80M0000-T
80.000000	CTX317LVCT-ND	5.70	5.25	3.02	CTX317LVTR-ND	1595.00	CB3LV-3I-80M0000-T
100.000000	CTX318LVCT-ND	9.50	8.75	5.02	CTX318LVTR-ND	2659.00	CB3LV-3I-100M0000-T
125.000000	CTX319LVCT-ND	11.88	10.94	6.28	CTX319LVTR-ND	3324.00	CB3LV-3I-125M0000-T
133.330000	CTX320LVCT-ND	14.01	12.91	7.41	CTX320LVTR-ND	3922.00	CB3LV-3I-133M3300-T

CTS® MXO45 Clock Oscillators

Standard Output

• Frequency Tolerance: ±100ppm, 0°C ~ 70°C • CMOS compatible • Fully hermetically-sealed package • 8/14-pin compatible • Drives up to 10 standard TTL Loads • Input Voltage: +5V DC ± .5V

Tri-State Output

Tri-State Logic uses the two standard logic levels of high (logic 1) and low (logic 0) but has added a third state that is not a logic level but an open circuit condition that effectively disconnects the output from your circuit with a high impedance (floating) state, thereby enabling the use of numerous oscillators on the same bus line. Also, by using the enable pin to control the output, the crystal is still running even when the output is disabled (stand-by mode), thus eliminating any start-up time for the oscillator. **CTS HCMOS/TTL** products utilize an Application Specific Integrated Circuit (ASIC) design strategy. Employing a single design family supporting both HCMOS/TTL applications helps in reducing costs and lead times. Utilizing ASIC technology reduces the number of components inside the XO (crystal oscillator), thus increasing reliability and further reducing cost.

Features: • CMOS/TTL compatible • Drives up to 10 standard TTL loads • 100ppm tolerance • Tri-State output • Fully hermetic resistance weld package

Wave Form Conditions

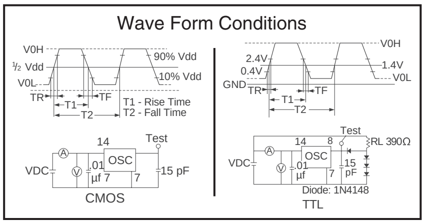

Parameter	Symbol	Condition	Minimum	Typical	Maximum	Units
Supply Voltage	VCC	—	4.5	5	5.5	V
Supply Current	ICC	1.0 ~ 7.0MHz	—	5	12	mA
	—	>7.0 ~ 25MHz	—	15	25	mA
	—	>25 ~ 50MHz	—	30	40	mA
Output Load	—	—	—	—	10	TTL
Output Current	IOH	VOH= 3.9V	—	—	-16	mA
	IOH	VOH= 0.4V	—	—	16	mA
Symmetry	Duty	1.0 ~ 50MHz	45	—	55	%
		>50 ~ 70MHz	40	—	60	%
Rise & Fall Time	Tr/Tf	1.0 ~ 25MHz	—	5	8	ns
	Tr/Tf	>25 ~ 70MHz	—	3	5	ns
Enable Input V	VIH	—	2	—	—	V
	VIL	—	—	—	0.8	V
Enable Input Load	Cin	—	—	—	10	pF
Tri-state Leakage	Iz	VIL= 0.8V	—	—	0.05	mA
Jitter	—	Peak-Peak	—	30	50	ps
Temperature	0°C ~ 70°C					

Full Size

Pin Connection	
1	O/E Tri-State) NC (Standard)
7	Ground
8	Output
14	+5V DC

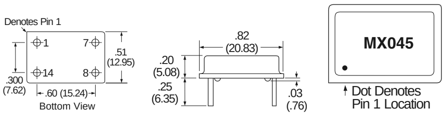

Half Size

Pin Connection	
1	O/E Tri-State) NC (Standard)
4	Ground
5	Output
8	+5V DC

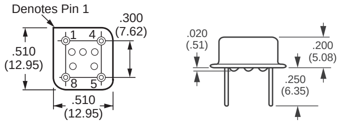

Frequency (MHz)	Digi-Key Part No.	Price Each					CTS Part No.
		1	10	100	250	500	
Full Size Clock Oscillator with Standard Output							
1.000000	CTX101-ND	2.78	2.47	2.19	1.87	1.66	MXO45-1.0000
1.843200	CTX103-ND	2.78	2.47	2.19	1.87	1.66	MXO45-1.8432
2.000000	CTX104-ND	2.78	2.47	2.19	1.87	1.66	MXO45-2.0000
2.457600	CTX105-ND	2.78	2.47	2.19	1.87	1.66	MXO45-2.4576
3.686400	CTX106-ND	2.78	2.47	2.19	1.87	1.66	MXO45-3.6864
4.000000	CTX107-ND	2.78	2.47	2.19	1.87	1.66	MXO45-4.0000
4.915200	CTX108-ND	2.78	2.47	2.19	1.87	1.66	MXO45-4.9152
5.000000	CTX109-ND	2.78	2.47	2.19	1.87	1.66	MXO45-5.0000
5.068800	CTX110-ND	2.78	2.47	2.19	1.87	1.66	MXO45-5.0688
6.000000	CTX111-ND	2.78	2.47	2.19	1.87	1.66	MXO45-6.0000
6.144000	CTX122-ND	2.78	2.47	2.19	1.87	1.66	MXO45-6.1440
7.372800	CTX123-ND	2.78	2.47	2.19	1.87	1.66	MXO45-7.3728
8.000000	CTX112-ND	2.78	2.47	2.19	1.87	1.66	MXO45-8.0000
10.000000	CTX114-ND	2.78	2.47	2.19	1.87	1.66	MXO45-10.0000
12.000000	CTX131-ND	2.78	2.47	2.19	1.87	1.66	MXO45-12.0000
14.318180	CTX115-ND	2.78	2.47	2.19	1.87	1.66	MXO45-14.31818
16.000000	CTX116-ND	2.78	2.47	2.19	1.87	1.66	MXO45-16.0000
18.432000	CTX118-ND	2.78	2.47	2.19	1.87	1.66	MXO45-18.4320
19.660800	CTX124-ND	2.78	2.47	2.19	1.87	1.66	MXO45-19.6608
20.000000	CTX119-ND	2.78	2.47	2.19	1.87	1.66	MXO45-20.0000
24.000000	CTX125-ND	2.78	2.47	2.19	1.87	1.66	MXO45-24.0000
25.000000	CTX126-ND	2.78	2.47	2.19	1.87	1.66	MXO45-25.0000
25.175000	CTX127-ND	2.78	2.47	2.19	1.87	1.66	MXO45-25.1750
28.322000	CTX128-ND	2.78	2.47	2.19	1.87	1.66	MXO45-28.3220
32.000000	CTX129-ND	2.78	2.47	2.19	1.87	1.66	MXO45-32.0000
40.000000	CTX120-ND	2.78	2.47	2.19	1.87	1.66	MXO45-40.0000
50.000000	CTX121-ND	2.78	2.47	2.19	1.87	1.66	MXO45-50.0000
64.000000	CTX130-ND	3.64	3.22	2.87	2.45	2.18	MXO45-64.0000
66.666600	CTX137-ND	3.64	3.22	2.87	2.45	2.18	MXO45-66.6666
80.000000	CTX138-ND	5.85	5.18	4.61	3.94	3.49	MXO45-80.0000
Full Size Clock Oscillator with Tri-State Output							
1.000000	CTX139-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-1.0000
1.843200	CTX140-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-1.8432
2.000000	CTX141-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-2.0000
2.457600	CTX142-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-2.4576
3.686400	CTX143-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-3.6864
4.000000	CTX144-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-4.0000
4.915200	CTX145-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-4.9152
5.000000	CTX146-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-5.0000
5.068800	CTX147-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-5.0688
6.000000	CTX148-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-6.0000
6.144000	CTX200-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-6.1440
7.372800	CTX201-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-7.3728
8.000000	CTX202-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-8.0000
10.000000	CTX203-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-10.0000
12.000000	CTX204-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-12.0000
14.318180	CTX205-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-14.31818
16.000000	CTX206-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-16.0000
18.432000	CTX207-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-18.4320
19.660800	CTX208-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-19.6608
20.000000	CTX209-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-20.0000
24.000000	CTX210-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-24.0000
25.000000	CTX211-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-25.0000
25.175000	CTX212-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-25.1750
28.322000	CTX213-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-28.3220
32.000000	CTX214-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-32.0000
40.000000	CTX215-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-40.0000
50.000000	CTX216-ND	2.78	2.47	2.19	1.87	1.66	MXO45T-50.0000
64.000000	CTX217-ND	3.64	3.22	2.87	2.45	2.17	MXO45T-64.0000
66.666600	CTX218-ND	3.64	3.22	2.87	2.45	2.17	MXO45T-66.6666
80.000000	CTX219-ND	5.85	5.18	4.61	3.94	3.49	MXO45T-80.0000

Frequency (MHz)	Digi-Key Part No.	Price Each					CTS Part No.
		1	10	100	250	500	
Half Size Clock Oscillator with Standard Output							
1.000000	CTX150-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-1.0000
1.843200	CTX151-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-1.8432
2.000000	CTX152-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-2.0000
2.457600	CTX153-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-2.4576
3.686400	CTX154-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-3.6864
4.000000	CTX155-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-4.0000
4.915200	CTX156-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-4.9152
5.000000	CTX157-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-5.0000
5.068800	CTX158-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-5.0688
6.000000	CTX159-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-6.0000
6.144000	CTX160-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-6.1440
7.372800	CTX161-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-7.3728
8.000000	CTX162-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-8.0000
10.000000	CTX163-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-10.0000
12.000000	CTX164-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-12.0000
14.318180	CTX165-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-14.31818
16.000000	CTX166-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-16.0000
18.432000	CTX167-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-18.4320
19.660800	CTX168-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-19.6608
20.000000	CTX169-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-20.0000
24.000000	CTX170-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-24.0000
25.000000	CTX171-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-25.0000
25.175000	CTX172-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-25.1750
28.322000	CTX173-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-28.3220
32.000000	CTX174-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-32.0000
40.000000	CTX175-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-40.0000
50.000000	CTX176-ND	2.78	2.47	1.87	1.66	1.42	MXO45HS-50.0000
64.000000	CTX177-ND	3.64	3.22	2.45	2.17	1.86	MXO45HS-64.0000
66.666600	CTX178-ND	3.64	3.22	2.45	2.17	1.86	MXO45HS-66.6666
80.000000	CTX179-ND	5.85	5.18	3.94	3.49	2.99	MXO45HS-80.0000
Half Size Clock Oscillator with Tri-State Output							
1.000000	CTX180-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-1.0000
1.843200	CTX181-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-1.8432
2.000000	CTX182-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-2.0000
2.457600	CTX183-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-2.4576
3.686400	CTX184-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-3.6864
4.000000	CTX185-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-4.0000
4.915200	CTX186-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-4.9152
5.000000	CTX187-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-5.0000
5.068800	CTX188-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-5.0688
6.000000	CTX189-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-6.0000
6.144000	CTX190-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-6.1440
7.372800	CTX191-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-7.3728
8.000000	CTX192-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-8.0000
10.000000	CTX193-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-10.0000
12.000000	CTX194-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-12.0000
14.318180	CTX195-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-14.31818
16.000000	CTX196-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-16.0000
18.432000	CTX197-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-18.4320
19.660800	CTX198-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-19.6608
20.000000	CTX199-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-20.0000
24.000000	CTX250-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-24.0000
25.000000	CTX251-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-25.0000
25.175000	CTX252-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-25.1750
28.322000	CTX253-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-28.3220
32.000000	CTX254-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-32.0000
40.000000	CTX255-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-40.0000
50.000000	CTX256-ND	2.78	2.47	1.87	1.66	1.42	MXO45HST-50.0000
64.000000	CTX257-ND	3.64	3.22	2.45	2.17	1.86	MXO45HST-64.0000
66.666600	CTX258-ND	3.64	3.22	2.45	2.17	1.86	MXO45HST-66.6666
80.000000	CTX259-ND	5.85	5.18	3.94	3.49	2.99	MXO45HST-80.0000

A462-ND	Aries Electronics Inc. Full Size 4-Pin Oscillator Sockets	**$.55/1**	**$11.60/25**	**$37.59/100**
A463-ND	Aries Electronics Inc. Half Size 4-Pin Oscillator Sockets	**$.55/1**	**$11.60/25**	**$37.59/100**

CONNOR WINFIELD

Timing Modules

MSTM-S3: • Redundant references • 2 synchronous outputs • 30 second filtered holdover history • Operational status flags • Compatible with Raltron TeraSync offerings

SM3: • 4 auto-frequency reference inputs • Detects and locks to reference • Continuous reference qualification with loss of reference detection • 3 CMOS outputs • SPI-Control autonomous or manual modes • Hitless reference switching and master/slave operation

SM3E: • 8 auto-select input references • Phase buildout • Less than 1ppb initial hold over offset • Frequency qualification and loss of reference detection • Hitless reference switching and master/slave operation • Manual/Autonomous operation • Bi-directional SPI Port control and status reporting • 3 CMOS outputs

Note: For package specifications and additional information, please see datasheet on Digi-Key® website

Freq. (MHz)	Supply Voltage (V)	Application	Length x Width (in)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
16.384	5.0	Stratum 3	2 x 2	CW644-ND	393.75	315.00	253.75	MSTM-S3-TR-16.384M
19.440	3.3	Stratum 3	1.45 x 1	CW642-ND	393.75	315.00	253.75	SM3-19.44M
19.440	3.3	Stratum 3E	2.05 x 1.25	CW643-ND	787.50	630.00	507.50	SM3E-19.44M
19.440	5.0	Stratum 3	2 x 2	CW645-ND	393.75	315.00	253.75	MSTM-S3-TR-19.44M

Synchronous Clock Generators

Specifications: • RMS Jitter 12kHz-20MHz: <1ps • **Input Type:** CMOS • **Mounting Type:** Surface Mount
Note: For package specifications and additional information, please see datasheet on Digi-Key® website

Output Type	Supply Voltage (V)	Length x Width (in)	Input Frequency	Output Frequency	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
LVCMOS	3.3	.83 x .78	8kHz*	77.76MHz	CW640-ND	157.50	126.00	101.50	SCG2500-77.76M
LVPECL	3.3	1 x .8	19.44MHz	155.52MHz	CW638-ND	123.75	99.00	79.75	SCG102A-155.52M
LVPECL	3.3	1 x .8	19.44MHz	77.76MHz	CW639-ND	123.75	99.00	79.75	SCG102A-77.76M
LVPECL	3.3	1.07 x 1.04	8kHz*	155.52MHz	CW641-ND	168.75	135.00	108.75	SCG4500-155.52M

* Input Frequency: 8.00kHz x 2

Clock Smoother Module

Features: • Jitter smoothing PLL utilizing a VCSO (Voltage Controlled SAW Oscillator) • 1000mV Peak-to-Peak Input Reference Signal • **Jitter Transfer:** OC-192 (Telcordia GR-253) compliant • **Supply Voltage:** 3.3V • **Output Enable-Voltage:** 2.275V (VOH) • **Output Enable-Voltage:** 1.68V (VOL) • **Output Load:** 100Ω • **Rise Time:** 500ps • **Fall Time:** 500ps • **Duty Cycle:** 45% ~ 55% • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C
Note: Vod measured with 100Ω resistor from Q to $\overline{Q}$

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
622.08	CW637-ND	90.00	72.00	58.00	CSA21-622.08M

Pin Function	
1	Lock Monitor
2	Enable/Disable
3	DS1
4	Ground (Case)
5	Reference Clock Input
6	DS2
7	Comp Output
8	Q Output
9	Ground (Case)
10	Vcc

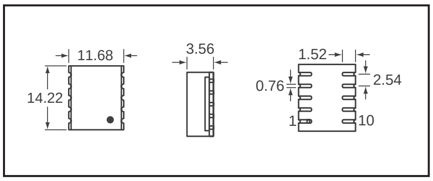

2.5V and 3.3V LVPECL SMD Oscillators

Specifications: • **Output Load:** 50Ω • **Duty Cycle at 50% of Vcc:** 45% ~ 55% • Output must be terminated into 50Ω to Vcc-2V or Thevenin equivalent • **Fall Time:** 1ns • **Rise Time:** 1ns

Enable/Disable Function (Pad 1)	Output
High or Open	Enable
Low	Disable (High Impedance)

Pin Function	
1	Enable/Disable
2	N/C
3	Ground
4	Q Output
5	$\overline{Q}$ Output
6	Vcc

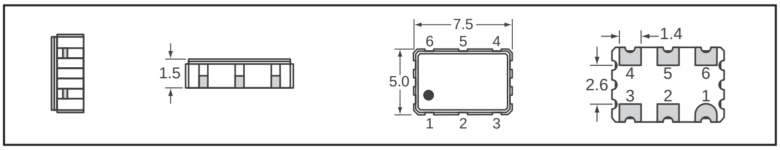

P212, P213, P222 and P223

• **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C

Supply Voltage	Frequency Stability	Freq. (MHz)	Output Voltage V (VOH)	Output Voltage V (VOL)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
2.5V	±25ppm	100.00	1.475	.88	CW610-ND	27.00	21.60	17.40	P212-100.0M
		125.00	1.475	.88	CW611-ND	27.00	21.60	17.40	P212-125.0M
		155.52	1.475	.88	CW612-ND	28.13	22.50	18.13	P212-155.52M
		156.25	1.475	.88	CW613-ND	28.13	22.50	18.13	P212-156.25M
	±50ppm	100.00	1.475	.88	CW614-ND	24.75	19.80	15.95	P222-100.0M
		125.00	1.475	.88	CW615-ND	24.75	19.80	15.95	P222-125.0M
		155.52	1.475	.88	CW616-ND	25.88	20.70	16.68	P222-155.52M
		156.25	1.475	.88	CW617-ND	25.88	20.70	16.68	P222-156.25M
3.3V	±25ppm	100.00	2.275	1.68	CW602-ND	27.00	21.60	17.40	P213-100.0M
		125.00	2.275	1.68	CW603-ND	27.00	21.60	17.40	P213-125.0M
		155.52	2.275	1.68	CW604-ND	28.13	22.50	18.13	P213-155.52M
		156.25	2.275	1.68	CW605-ND	28.13	22.50	18.13	P213-156.25M
	±50ppm	100.00	2.275	1.68	CW606-ND	24.75	19.80	15.95	P223-100.0M
		125.00	2.275	1.68	CW607-ND	24.75	19.80	15.95	P223-125.0M
		155.52	2.275	1.68	CW608-ND	25.88	20.70	16.68	P223-155.52M
		156.25	2.275	1.68	CW609-ND	25.88	20.70	16.68	P223-156.25M

P122, P123, P142 and P143

• **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C

Supply Voltage	Frequency Stability	Freq. (MHz)	Output Voltage V (VOH)	Output Voltage V (VOL)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
2.5V	±20ppm	100.00	1.475	.88	CW594-ND	24.75	19.80	15.95	P142-100.00M
		125.00	1.475	.88	CW595-ND	24.75	19.80	15.95	P142-125.0M
		155.52	1.475	.88	CW596-ND	25.88	20.70	16.68	P142-155.52M
		156.25	1.475	.88	CW597-ND	25.88	20.70	16.68	P142-156.25M
	±50ppm	100.00	1.475	.88	CW598-ND	22.50	18.00	14.50	P122-100.0M
		125.00	1.475	.88	CW599-ND	22.50	18.00	14.50	P122-125.0M
		155.52	1.475	.88	CW600-ND	23.63	18.90	15.23	P122-155.52M
		156.25	1.475	.88	CW601-ND	23.63	18.90	15.23	P122-156.25M
3.3V	±20ppm	100.00	2.275	1.68	CW586-ND	24.75	19.80	15.95	P143-100.0M
		125.00	2.275	1.68	CW587-ND	24.75	19.80	15.95	P143-125.0M
		155.52	2.275	1.68	CW588-ND	25.88	20.70	16.68	P143-155.52M
		156.25	2.275	1.68	CW589-ND	25.88	20.70	16.68	P143-156.25M
	±50ppm	100.00	2.275	1.68	CW590-ND	22.50	18.00	14.50	P123-100.0M
		125.00	2.275	1.68	CW591-ND	22.50	18.00	14.50	P123-125.0M
		155.52	2.275	1.68	CW592-ND	23.63	18.90	15.23	P123-155.52M
		156.25	2.275	1.68	CW593-ND	23.63	18.90	15.23	P123-156.25M

3.3V LVDS SMD Oscillator

Specifications: • **Output Differential Voltage:** 450mV Max • **Enable Voltage:** 0.3Vcc Max • **Disable Voltage:** 0.7Vcc Min • **Output Load:** 100Ω • **Duty Cycle at 50% of Vcc:** 45% ~ 55% • **Freq. Stability:** ±20ppm • **Operating Temp.:** 0°C ~ 70°C • **Storage Temp.:** -40°C ~ 85°C • **Fall Time:** 10ns • **Rise Time:** 10ns
Note: Vod measured with 100Ω resistor between the true output and the complementary output

Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
622.08	CW618-ND	64.13	51.30	41.33	X502-622.08M

Pin Function	
1	N/C
2	Enable/Disable
3	Ground (Case)
4	Output Q
5	Comp Output $\overline{Q}$
6	Vcc

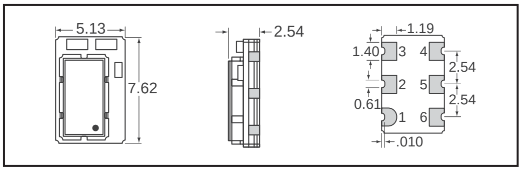

LVCMOS and LVPECL SMD VCXOs

Frequency (MHz)	Output Voltage V (VOH)	Output Voltage V (VOL)	Load Cap.	Fall Time (ns)	Rise Time (ns)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
LVCMOS										
74.1758	2.400	.40	15.0pF	2.0	2.0	CW621-ND	31.50	25.20	20.30	V802-74.1758M
74.2500	2.400	.40	15.0pF	2.0	2.0	CW622-ND	31.50	25.20	20.30	V802-74.25M
100.0000	2.400	.40	15.0pF	2.0	2.0	CW623-ND	33.75	27.00	21.75	V802-100.0M
125.0000	2.400	.40	15.0pF	2.0	2.0	CW624-ND	33.75	27.00	21.75	V802-125.0M
LVPECL — Output Load: 50 Ohms										
155.5200	2.275	1.68	—	1.5	1.5	CW625-ND	37.13	29.70	23.93	V702-155.52M
156.2500	2.275	1.68	—	1.5	1.5	CW626-ND	37.13	29.70	23.93	V702-156.25M

Specifications: • **Supply Voltage:** 3.3V • **Absolute Pull Range (±):** 50ppm • **Duty Cycle:** 45% ~ 55% • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C

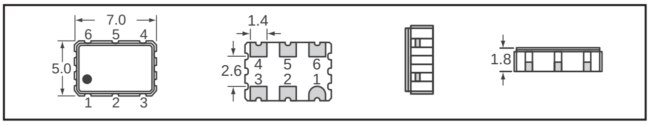

Note: For pin outs and output characteristics, please see datasheet on Digi-Key® website.

CONNOR WINFIELD

CWX Series HCMOS SMD Oscillators

Enable/Disable Function	Output
Pin 1 Open	Pin 3 Active
Pin 1 ≥ 2.2V	Pin 3 Active
Pin 1 ≤ 2.2V	Pin 3 High Impedance

Pad	Connection
1	Enable/Disable
2	Ground
3	Output
4	Vcc

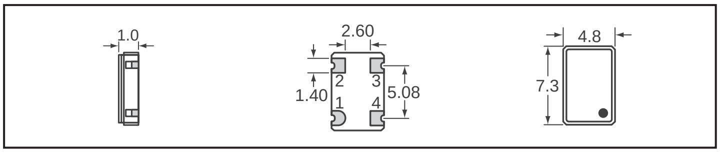

CWX813 and CWX823

Specifications: • **Duty Cycle at 50% of Vcc:** 40% ~ 60% • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Output Current:** -8mA IOH • **Output Current:** 8mA IOL • **Load Capacitance:** 15.0pF • **Output Enable Voltage:** 2.97V (VOH) • **Output Enable Voltage:** .33V (VOL) • **Supply Voltage:** 3.30V • **Start-up Time:** 10ms

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Connor-Winfield Part No.
			±25ppm				
1.5440	CW510CT-ND	2.81	2.34	1.88	CW510TR-ND	1404.00	CWX813-1.544M
1.8432	CW511CT-ND	2.81	2.34	1.88	CW511TR-ND	1404.00	CWX813-1.8432M
3.6864	CW512CT-ND	2.81	2.34	1.88	CW512TR-ND	1404.00	CWX813-3.6864M
4.0000	CW513CT-ND	2.81	2.34	1.88	CW513TR-ND	1404.00	CWX813-4.0M
7.3728	CW514CT-ND	2.81	2.34	1.88	CW514TR-ND	1404.00	CWX813-7.3728M
8.0000	CW515CT-ND	2.81	2.34	1.88	CW515TR-ND	1404.00	CWX813-8.0M
10.0000	CW516CT-ND	2.81	2.34	1.88	CW516TR-ND	1404.00	CWX813-10.0M
12.0000	CW517CT-ND	2.81	2.34	1.88	CW517TR-ND	1404.00	CWX813-12.0M
12.2880	CW518CT-ND	2.81	2.34	1.88	CW518TR-ND	1404.00	CWX813-12.288M
14.3182	CW519CT-ND	2.81	2.34	1.88	CW519TR-ND	1404.00	CWX813-14.31818M
15.3600	CW520CT-ND	2.81	2.34	1.88	CW520TR-ND	1404.00	CWX813-15.36M
16.0000	CW521CT-ND	2.81	2.34	1.88	CW521TR-ND	1404.00	CWX813-16.0M
16.3840	CW522CT-ND	2.81	2.34	1.88	CW522TR-ND	1404.00	CWX813-16.384M
18.4320	CW523CT-ND	2.81	2.34	1.88	CW523TR-ND	1404.00	CWX813-18.432M
19.4400	CW524CT-ND	2.81	2.34	1.88	CW524TR-ND	1404.00	CWX813-19.44M
20.0000	CW525CT-ND	2.81	2.34	1.88	CW525TR-ND	1404.00	CWX813-20.0M
20.4800	CW526CT-ND	2.81	2.34	1.88	CW526TR-ND	1404.00	CWX813-20.48M
24.0000	CW527CT-ND	2.81	2.34	1.88	CW527TR-ND	1404.00	CWX813-24.0M
24.5760	CW528CT-ND	2.81	2.34	1.88	CW528TR-ND	1404.00	CWX813-24.576M
25.0000	CW529CT-ND	2.81	2.34	1.88	CW529TR-ND	1404.00	CWX813-25.0M
27.0000	CW530CT-ND	2.81	2.34	1.88	CW530TR-ND	1404.00	CWX813-27.0M
29.4912	CW531CT-ND	2.81	2.34	1.88	CW531TR-ND	1404.00	CWX813-29.4912M
30.0000	CW532CT-ND	2.81	2.34	1.88	CW532TR-ND	1404.00	CWX813-30.0M
32.0000	CW533CT-ND	2.81	2.34	1.88	CW533TR-ND	1404.00	CWX813-32.0M
32.7680	CW534CT-ND	2.81	2.34	1.88	CW534TR-ND	1404.00	CWX813-32.768M
33.0000	CW535CT-ND	2.81	2.34	1.88	CW535TR-ND	1404.00	CWX813-33.0M
33.3330	CW536CT-ND	2.81	2.34	1.88	CW536TR-ND	1404.00	CWX813-33.333M
40.0000	CW537CT-ND	2.81	2.34	1.88	CW537TR-ND	1404.00	CWX813-40.0M
44.7360	CW538CT-ND	2.81	2.34	1.88	CW538TR-ND	1404.00	CWX813-44.736M
45.0000	CW539CT-ND	2.81	2.34	1.88	CW539TR-ND	1404.00	CWX813-45.0M
49.1520	CW540CT-ND	2.81	2.34	1.88	CW540TR-ND	1404.00	CWX813-49.152M
50.0000	CW541CT-ND	2.81	2.34	1.88	CW541TR-ND	1404.00	CWX813-50.0M
60.0000	CW542CT-ND	2.81	2.34	1.88	CW542TR-ND	1404.00	CWX813-60.0M
64.0000	CW543CT-ND	3.21	2.68	2.15	CW543TR-ND	1606.50	CWX813-64.0M
66.6666	CW544CT-ND	3.21	2.68	2.15	CW544TR-ND	1606.50	CWX813-66.6666M
72.0000	CW545CT-ND	3.21	2.68	2.15	CW545TR-ND	1606.50	CWX813-72.0M
80.0000	CW546CT-ND	3.21	2.68	2.15	CW546TR-ND	1606.50	CWX813-80.0M
100.0000	CW547CT-ND	3.92	3.27	2.61	CW547TR-ND	1957.50	CWX813-100.0M
			±50ppm				
1.5440	CW431CT-ND	2.13	1.78	1.43	CW431TR-ND	1066.50	CWX823-1.544M
1.8432	CW432CT-ND	2.13	1.78	1.43	CW432TR-ND	1066.50	CWX823-1.8432M
3.6864	CW433CT-ND	2.13	1.78	1.43	CW433TR-ND	1066.50	CWX823-3.6864M
4.0000	CW434CT-ND	2.13	1.78	1.43	CW434TR-ND	1066.50	CWX823-4.0M
7.3728	CW435CT-ND	2.13	1.78	1.43	CW435TR-ND	1066.50	CWX823-7.3728M
8.0000	CW436CT-ND	2.13	1.78	1.43	CW436TR-ND	1066.50	CWX823-8.0M
10.0000	CW437CT-ND	2.13	1.78	1.43	CW437TR-ND	1066.50	CWX823-10.0M
12.0000	CW438CT-ND	2.13	1.78	1.43	CW438TR-ND	1066.50	CWX823-12.0M
12.2880	CW439CT-ND	2.13	1.78	1.43	CW439TR-ND	1066.50	CWX823-12.288M
14.3182	CW440CT-ND	2.13	1.78	1.43	CW440TR-ND	1066.50	CWX823-14.31818M
15.3600	CW441CT-ND	2.13	1.78	1.43	CW441TR-ND	1066.50	CWX823-15.36M
16.0000	CW442CT-ND	2.13	1.78	1.43	CW442TR-ND	1066.50	CWX823-16.0M
16.3840	CW443CT-ND	2.13	1.78	1.43	CW443TR-ND	1066.50	CWX823-16.384M
18.4320	CW444CT-ND	2.13	1.78	1.43	CW444TR-ND	1066.50	CWX823-18.432M
19.4400	CW445CT-ND	2.13	1.78	1.43	CW445TR-ND	1066.50	CWX823-19.44M
20.0000	CW446CT-ND	2.13	1.78	1.43	CW446TR-ND	1066.50	CWX823-20.0M
20.4800	CW447CT-ND	2.13	1.78	1.43	CW447TR-ND	1066.50	CWX823-20.48M
24.0000	CW448CT-ND	2.13	1.78	1.43	CW448TR-ND	1066.50	CWX823-24.0M
24.5760	CW449CT-ND	2.13	1.78	1.43	CW449TR-ND	1066.50	CWX823-24.576M
25.0000	CW450CT-ND	2.13	1.78	1.43	CW450TR-ND	1066.50	CWX823-25.0M
27.0000	CW451CT-ND	2.13	1.78	1.43	CW451TR-ND	1066.50	CWX823-27.0M
29.4912	CW452CT-ND	2.13	1.78	1.43	CW452TR-ND	1066.50	CWX823-29.4912M
30.0000	CW453CT-ND	2.13	1.78	1.43	CW453TR-ND	1066.50	CWX823-30.0M
32.0000	CW454CT-ND	2.13	1.78	1.43	CW454TR-ND	1066.50	CWX823-32.0M
32.7680	CW455CT-ND	2.13	1.78	1.43	CW455TR-ND	1066.50	CWX823-32.768M
33.0000	CW456CT-ND	2.13	1.78	1.43	CW456TR-ND	1066.50	CWX823-33.0M
33.3330	CW457CT-ND	2.13	1.78	1.43	CW457TR-ND	1066.50	CWX823-33.333M
40.0000	CW458CT-ND	2.13	1.78	1.43	CW458TR-ND	1066.50	CWX823-40.0M
44.7360	CW459CT-ND	2.13	1.78	1.43	CW459TR-ND	1066.50	CWX823-44.736M
45.0000	CW460CT-ND	2.13	1.78	1.43	CW460TR-ND	1066.50	CWX823-45.0M
49.1520	CW461CT-ND	2.13	1.78	1.43	CW461TR-ND	1066.50	CWX823-49.152M
50.0000	CW462CT-ND	2.13	1.78	1.43	CW462TR-ND	1066.50	CWX823-50.0M
60.0000	CW463CT-ND	2.13	1.78	1.43	CW463TR-ND	1066.50	CWX823-60.0M
64.0000	CW464CT-ND	2.40	2.01	1.61	CW464TR-ND	1201.50	CWX823-64.0M
66.6666	CW465CT-ND	2.40	2.01	1.61	CW465TR-ND	1201.50	CWX823-66.6666M
72.0000	CW466CT-ND	2.40	2.01	1.61	CW466TR-ND	1201.50	CWX823-72.0M
80.0000	CW467CT-ND	2.40	2.01	1.61	CW467TR-ND	1201.50	CWX823-80.0M
100.0000	CW468CT-ND	3.11	2.59	2.07	CW468TR-ND	1552.50	CWX823-100.0M
125.0000	CW469CT-ND	5.94	4.95	3.96	CW469TR-ND	2970.00	CWX823-125.0M
156.2500	CW470CT-ND	11.48	9.57	7.65	CW470TR-ND	5737.50	CWX823-156.25M

CWX815 and CWX825

Specifications: • **Duty Cycle at 50% of Vcc:** 40% ~ 60% • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C • **Output Current:** -8mA IOH • **Output Current:** 8mA IOL • **Load Capacitance:** 50.0pF • **Output Enable Voltage:** 4.50V (VOH) • **Output Enable Voltage:** .40V (VOL) • **Supply Voltage:** 5.00V • **Start-up Time:** 10ms

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Connor-Winfield Part No.
			±25ppm				
1.5440	CW548CT-ND	2.81	2.34	1.88	CW548TR-ND	1404.00	CWX815-1.544M
1.8432	CW549CT-ND	2.81	2.34	1.88	CW549TR-ND	1404.00	CWX815-1.8432M
3.6864	CW550CT-ND	2.81	2.34	1.88	CW550TR-ND	1404.00	CWX815-3.6864M
4.0000	CW551CT-ND	2.81	2.34	1.88	CW551TR-ND	1404.00	CWX815-4.0M
7.3728	CW552CT-ND	2.81	2.34	1.88	CW552TR-ND	1404.00	CWX815-7.3728M
8.0000	CW553CT-ND	2.81	2.34	1.88	CW553TR-ND	1404.00	CWX815-8.0M
10.0000	CW554CT-ND	2.81	2.34	1.88	CW554TR-ND	1404.00	CWX815-10.0M
12.0000	CW555CT-ND	2.81	2.34	1.88	CW555TR-ND	1404.00	CWX815-12.0M
12.2880	CW556CT-ND	2.81	2.34	1.88	CW556TR-ND	1404.00	CWX815-12.288M
14.3182	CW557CT-ND	2.81	2.34	1.88	CW557TR-ND	1404.00	CWX815-14.31818M
15.3600	CW558CT-ND	2.81	2.34	1.88	CW558TR-ND	1404.00	CWX815-15.36M
16.0000	CW559CT-ND	2.81	2.34	1.88	CW559TR-ND	1404.00	CWX815-16.0M
16.3840	CW560CT-ND	2.81	2.34	1.88	CW560TR-ND	1404.00	CWX815-16.384M
18.4320	CW561CT-ND	2.81	2.34	1.88	CW561TR-ND	1404.00	CWX815-18.432M
19.4400	CW562CT-ND	2.81	2.34	1.88	CW562TR-ND	1404.00	CWX815-19.44M
20.0000	CW563CT-ND	2.81	2.34	1.88	CW563TR-ND	1404.00	CWX815-20.0M
20.4800	CW564CT-ND	2.81	2.34	1.88	CW564TR-ND	1404.00	CWX815-20.48M
24.0000	CW565CT-ND	2.81	2.34	1.88	CW565TR-ND	1404.00	CWX815-24.0M
24.5760	CW566CT-ND	2.81	2.34	1.88	CW566TR-ND	1404.00	CWX815-24.576M
25.0000	CW567CT-ND	2.81	2.34	1.88	CW567TR-ND	1404.00	CWX815-25.0M
27.0000	CW568CT-ND	2.81	2.34	1.88	CW568TR-ND	1404.00	CWX815-27.0M
29.4912	CW569CT-ND	2.81	2.34	1.88	CW569TR-ND	1404.00	CWX815-29.4912M
30.0000	CW570CT-ND	2.81	2.34	1.88	CW570TR-ND	1404.00	CWX815-30.0M
32.0000	CW571CT-ND	2.81	2.34	1.88	CW571TR-ND	1404.00	CWX815-32.0M
32.7680	CW572CT-ND	2.81	2.34	1.88	CW572TR-ND	1404.00	CWX815-32.768M
33.0000	CW573CT-ND	2.81	2.34	1.88	CW573TR-ND	1404.00	CWX815-33.0M
33.3330	CW574CT-ND	2.81	2.34	1.88	CW574TR-ND	1404.00	CWX815-33.333M
40.0000	CW575CT-ND	2.81	2.34	1.88	CW575TR-ND	1404.00	CWX815-40.0M
44.7360	CW576CT-ND	2.81	2.34	1.88	CW576TR-ND	1404.00	CWX815-44.736M
45.0000	CW577CT-ND	2.81	2.34	1.88	CW577TR-ND	1404.00	CWX815-45.0M
49.1520	CW578CT-ND	2.81	2.34	1.88	CW578TR-ND	1404.00	CWX815-49.152M
50.0000	CW579CT-ND	2.81	2.34	1.88	CW579TR-ND	1404.00	CWX815-50.0M
60.0000	CW580CT-ND	2.81	2.34	1.88	CW580TR-ND	1404.00	CWX815-60.0M
64.0000	CW581CT-ND	3.21	2.68	2.15	CW581TR-ND	1606.50	CWX815-64.0M
66.6666	CW582CT-ND	3.21	2.68	2.15	CW582TR-ND	1606.50	CWX815-66.6666M
72.0000	CW583CT-ND	3.21	2.68	2.15	CW583TR-ND	1606.50	CWX815-72.0M
80.0000	CW584CT-ND	3.21	2.68	2.15	CW584TR-ND	1606.50	CWX815-80.0M
100.0000	CW585CT-ND	3.92	3.27	2.61	CW585TR-ND	1957.50	CWX815-100.0M
			±50ppm				
1.5440	CW471CT-ND	2.13	1.78	1.43	CW471TR-ND	1066.50	CWX825-1.544M
1.8432	CW472CT-ND	2.13	1.78	1.43	CW472TR-ND	1066.50	CWX825-1.8432M
3.6864	CW473CT-ND	2.13	1.78	1.43	CW473TR-ND	1066.50	CWX825-3.6864M
4.0000	CW474CT-ND	2.13	1.78	1.43	CW474TR-ND	1066.50	CWX825-4.0M
7.3728	CW475CT-ND	2.13	1.78	1.43	CW475TR-ND	1066.50	CWX825-7.3728M
8.0000	CW476CT-ND	2.13	1.78	1.43	CW476TR-ND	1066.50	CWX825-8.0M
10.0000	CW477CT-ND	2.13	1.78	1.43	CW477TR-ND	1066.50	CWX825-10.0M
12.0000	CW478CT-ND	2.13	1.78	1.43	CW478TR-ND	1066.50	CWX825-12.0M
12.2880	CW479CT-ND	2.13	1.78	1.43	CW479TR-ND	1066.50	CWX825-12.288M
14.3182	CW480CT-ND	2.13	1.78	1.43	CW480TR-ND	1066.50	CWX825-14.31818M
15.3600	CW481CT-ND	2.13	1.78	1.43	CW481TR-ND	1066.50	CWX825-15.36M
16.0000	CW482CT-ND	2.13	1.78	1.43	CW482TR-ND	1066.50	CWX825-16.0M
16.3840	CW483CT-ND	2.13	1.78	1.43	CW483TR-ND	1066.50	CWX825-16.384M
18.4320	CW484CT-ND	2.13	1.78	1.43	CW484TR-ND	1066.50	CWX825-18.432M
19.4400	CW485CT-ND	2.13	1.78	1.43	CW485TR-ND	1066.50	CWX825-19.44M
20.0000	CW486CT-ND	2.13	1.78	1.43	CW486TR-ND	1066.50	CWX825-20.0M
20.4800	CW487CT-ND	2.13	1.78	1.43	CW487TR-ND	1066.50	CWX825-20.48M
24.0000	CW488CT-ND	2.13	1.78	1.43	CW488TR-ND	1066.50	CWX825-24.0M
24.5760	CW489CT-ND	2.13	1.78	1.43	CW489TR-ND	1066.50	CWX825-24.576M
25.0000	CW490CT-ND	2.13	1.78	1.43	CW490TR-ND	1066.50	CWX825-25.0M
27.0000	CW491CT-ND	2.13	1.78	1.43	CW491TR-ND	1066.50	CWX825-27.0M
29.4912	CW492CT-ND	2.13	1.78	1.43	CW492TR-ND	1066.50	CWX825-29.4912M
30.0000	CW493CT-ND	2.13	1.78	1.43	CW493TR-ND	1066.50	CWX825-30.0M
32.0000	CW494CT-ND	2.13	1.78	1.43	CW494TR-ND	1066.50	CWX825-32.0M
33.0000	CW495CT-ND	2.13	1.78	1.43	CW495TR-ND	1066.50	CWX825-33.0M
33.3330	CW496CT-ND	2.13	1.78	1.43	CW496TR-ND	1066.50	CWX825-33.333M
40.0000	CW497CT-ND	2.13	1.78	1.43	CW497TR-ND	1066.50	CWX825-40.0M
44.7360	CW498CT-ND	2.13	1.78	1.43	CW498TR-ND	1066.50	CWX825-44.736M
45.0000	CW499CT-ND	2.13	1.78	1.43	CW499TR-ND	1066.50	CWX825-45.0M
49.1520	CW500CT-ND	2.13	1.78	1.43	CW500TR-ND	1066.50	CWX825-49.152M
50.0000	CW501CT-ND	2.13	1.78	1.43	CW501TR-ND	1066.50	CWX825-50.0M
60.0000	CW502CT-ND	2.13	1.78	1.43	CW502TR-ND	1066.50	CWX825-60.0M
64.0000	CW503CT-ND	2.40	2.01	1.61	CW503TR-ND	1201.50	CWX825-64.0M
66.6666	CW504CT-ND	2.40	2.01	1.61	CW504TR-ND	1201.50	CWX825-66.6666M
72.0000	CW505CT-ND	2.40	2.01	1.61	CW505TR-ND	1201.50	CWX825-72.0M
80.0000	CW506CT-ND	2.40	2.01	1.61	CW506TR-ND	1201.50	CWX825-80.0M
100.0000	CW507CT-ND	3.11	2.59	2.07	CW507TR-ND	1552.50	CWX825-100.0M

CONNOR
WINFIELD

Surface Mount Oscillators

HSM92 - HSM93 Series: • **Frequency Stability:** HSM92: ±50ppm; HSM93: ±100ppm • **Temperature Range:** 0°C ~ 70°C • **Waveform**: HCMOS Squarewave, Tri-State • **Output: Voh**: 4.5V Minimum, **Vol:** 0.5V Max. • **Current: Ioh:** 16mA; Iol: 16mA • **Rise/Fall Time**: 7ns Max. • **Duty Cycle:** 45/55 Max. • **Start Up Time:** 10mS Max. • **Supply Voltage**: +5VDC, ±10% • **Enable/ Disable Time**: 100ns Max. • **Output Load:** 50pF **HSM 536 Series:** • **Frequency Stability:** ±100ppm • **Temperature Range:** 0°C ~ 70°C • **Waveform:** HCMOS Squarewave • **Output: Voh:** 4.5V Minimum, **Vol:** 0.5V Max. • **Rise/Fall Time**: 7ns Max. • **Duty Cycle:** 50/50%, ±10% • **Start Up Time:** 10mS Max. • **Supply Voltage**: +5VDC, ±10%. • **Output Load**: 50pF

Fig. 1

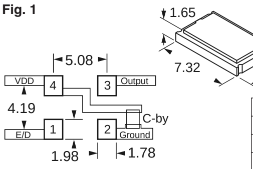

Suggested Pad Layout

Pin Conn.	
1	Enable
2	Ground
3	Output
4	Vdd

Fig. 2

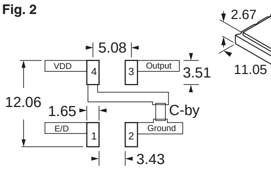

Suggested Pad Layout

Pin Conn.	
1	Enable
2	Ground
3	Output
4	Vdd

Fig.	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	100	500	Connor-Winfield Part No.
1	4.9152	CW301-ND	11.61	9.68	7.74	6.24	HSM93-4.9152
	8.0000	CW302-ND	11.61	9.68	7.74	6.24	HSM93-8.0000
	10.0000	CW303-ND	11.61	9.68	7.74	6.24	HSM93-10.0000
	16.0000	CW304-ND	11.61	9.68	7.74	6.24	HSM93-16.0000
	20.0000	CW305-ND	11.61	9.68	7.74	6.24	HSM93-20.0000
	25.0000	CW306-ND	11.61	9.68	7.74	6.24	HSM93-25.0000
	29.4912	CW341-ND	12.15	10.13	8.10	6.53	HSM92-29.4912
	32.0000	CW307-ND	11.61	9.68	7.74	6.24	HSM93-32.0000
	40.0000	CW308-ND	11.61	9.68	7.74	6.24	HSM93-40.0000
	44.2368	CW342-ND	12.15	10.13	8.10	6.53	HSM92-44.2368
	50.0000	CW309-ND	11.61	9.68	7.74	6.24	HSM93-50.0000
	60.0000	CW310-ND	13.23	11.03	8.82	7.11	HSM93-60.0000
2	8.0000	CW320-ND	10.80	9.00	7.20	5.80	HSM536-8.0000
	10.0000	CW321-ND	10.80	9.00	7.20	5.80	HSM536-10.0000
	18.4320	CW322-ND	10.80	9.00	7.20	5.80	HSM536-18.4320
	20.0000	CW323-ND	10.80	9.00	7.20	5.80	HSM536-20.0000
	25.0000	CW324-ND	10.80	9.00	7.20	5.80	HSM536-25.0000
	32.0000	CW325-ND	10.80	9.00	7.20	5.80	HSM536-32.0000
	40.0000	CW326-ND	10.80	9.00	7.20	5.80	HSM536-40.0000
	50.0000	CW327-ND	10.80	9.00	7.20	5.80	HSM536-50.0000
	60.0000	CW328-ND	11.07	9.23	7.38	5.95	HSM536-60.0000
	64.0000	CW329-ND	11.07	9.23	7.38	5.95	HSM536-64.0000
	66.6666	CW330-ND	11.07	9.23	7.38	5.95	HSM536-66.6666

3.3V HCMOS SMD TCXO

Specifications: • **Duty Cycle at 50% of Vcc:** 45% ~ 55% • **Supply Voltage:** 3.3V • **Frequency Stability:** ±4.6ppm • **Output Voltage:** 2V (VOH) ~ .4V (VOL) • **Load Capacitance:** 15.0pF • **Rise Time:** 5ns • **Fall Time:** 5ns • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C

Pin Connection	
1	N/C
2	N/C
3	Ground
4	Output
5	N/C
6	Vcc

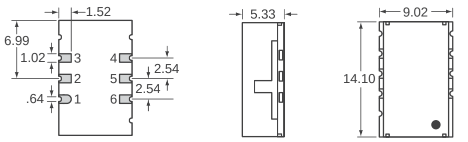

Freq. (MHz)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
12.8	CW619-ND	49.50	39.60	31.90	TFLD546-12.8M
20.0	CW620-ND	49.50	39.60	31.90	TFLD546-20.0M

3.3V and 5V HCMOS OCXO

Mounting Type	Freq. (MHz)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	10	100	Connor-Winfield Part No.
Surface Mount	10.00	3.3	CW627-ND	112.50	90.00	72.50	ASOF3S3-10.0M
	10.00	3.3	CW634-ND	202.50	162.00	130.50	BSOF3S3E-10.0M
	10.00	5.0	CW635-ND	213.75	171.00	137.75	OFC5DJ3BS-10.0M
	12.80	3.3	CW628-ND	112.50	90.00	72.50	ASOF3S3-12.8M
	12.80	5.0	CW630-ND	112.50	90.00	72.50	ASOF5S3-12.8M
	19.44	5.0	CW631-ND	112.50	90.00	72.50	ASOF5S3-19.44M
	20.00	3.3	CW629-ND	112.50	90.00	72.50	ASOF3S3-20.0M
	20.00	5.0	CW636-ND	213.75	171.00	137.75	OFC5DJ3BS-20.0M
Through Hole	10.00	5.0	CW632-ND	135.00	108.00	87.00	DGOF5S3-10.0M
	20.00	5.0	CW633-ND	135.00	108.00	87.00	DGOF5S3-20.0M

Note: For package specifications and additional information, please see datasheet on Digi-Key® website

Surface Mount Crystals

Specifications: • **Temperature Stability**: ±50ppm • **Frequency Tolerance:** ±50ppm @ 25°C • **Operating Temperature:** -10°C ~ 65°C • **Drive Level:** 1mW Typical

Fig. 1

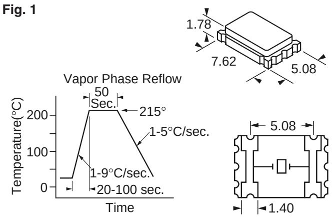

Fig. 2

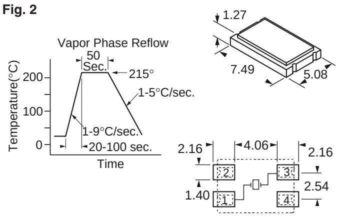

Fig.	Frequency (MHz)	Load Cap.	Digi-Key Part No.	Price Each 1	10	100	500	Connor-Winfield Part No.
1	10.0000	16pF	CW401-ND	4.73	3.94	3.15	2.54	XL-1C-10.0000
	12.0000	16pF	CW402-ND	4.73	3.94	3.15	2.54	XL-1C-12.0000
	16.0000	16pF	CW403-ND	4.73	3.94	3.15	2.54	XL-1C-16.0000
	18.4320	16pF	CW404-ND	4.73	3.94	3.15	2.54	XL-1C-18.4320
	20.0000	16pF	CW405-ND	4.73	3.94	3.15	2.54	XL-1C-20.0000
	29.4912	16pF	CW407-ND	5.54	4.62	3.69	2.98	XL-1C-29.4912
	40.0000	Series	CW408-ND	5.13	4.28	3.42	2.76	XL-1C-40.0000
	44.2368	Series	CW409-ND	5.13	4.28	3.42	2.76	XL-1C-44.2368
	50.0000	Series	CW410-ND	5.13	4.28	3.42	2.76	XL-1C-50.0000
2	10.0000	16pF	CW421-ND	7.83	6.53	5.22	4.21	XM-1-10.0000
	12.0000	16pF	CW422-ND	7.83	6.53	5.22	4.21	XM-1-12.0000
	16.0000	16pF	CW423-ND	7.83	6.53	5.22	4.21	XM-1-16.0000
	18.4320	16pF	CW424-ND	7.83	6.53	5.22	4.21	XM-1-18.4320
	20.0000	16pF	CW425-ND	7.83	6.53	5.22	4.21	XM-1-20.0000
	29.4912	Series	CW427-ND	9.32	7.77	6.21	5.01	XM-1-29.4912
	40.0000	Series	CW428-ND	8.51	7.09	5.67	4.57	XM-1-40.0000
	44.2368	Series	CW429-ND	8.51	7.09	5.67	4.57	XM-1-44.2368
	50.0000	Series	CW430-ND	8.51	7.09	5.67	4.57	XM-1-50.0000

LINEAR TECHNOLOGY

Silicon Oscillators

Features: Linear's solid-state "instant clocks" can be set to output a broad range of frequencies using a single resistor, or via an SPI or I²C interface.

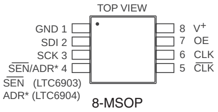

8-MSOP

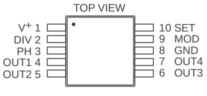

10-MSOP

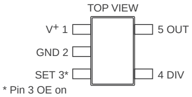

* Pin 3 OE on LTC6905-XXX

TSOT-23-5

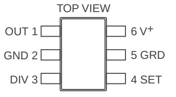

TSOT-23-6

Description	Frequency Range	Resolution Rate	Tolerance	Temperature Coefficient	Supply Current @ Frequency	Package	Digi-Key Part No.	Price Each 1	25	100	Linear Technology Part No.
Resistor programmable oscillator	1kHz ~ 33MHz	Infinite	1.5 %	40ppm/°C	1.1 mA @ 3 MHz	TSOT-23-5	LTC1799CS5-ND	3.38	2.65	2.03	LTC1799CS5
Resistor programmable oscillator	1kHz ~ 33MHz	Infinite	1.5 %	40ppm/°C	1.1 mA @ 3 MHz	TSOT-23-5	LTC1799IS5-ND	3.75	3.57	2.80	LTC1799IS5
Resistor programmable oscillator	1kHz ~ 20MHz	Infinite	1.5 %	40ppm/°C	860 µA @ 10 MHz	TSOT-23-5	LTC6900CS5-ND	3.38	2.65	2.03	LTC6900CS5
Resistor programmable oscillator	1kHz ~ 20MHz	Infinite	1.5 %	40ppm/°C	860 µA @ 10 MHz	TSOT-23-5	LTC6900IS5-ND	3.75	3.57	2.80	LTC6900IS5
Resistor programmable w/spread spectrum option	5kHz ~ 20MHz	Infinite	1.5 %	40ppm/°C	1.8 mA @ 10 MHz	10-MSOP	LTC6902CMS-ND	4.40	2.93	2.40	LTC6902CMS
SPI programmable oscillator	1kHz ~ 68MHz	0.1%	1.1 %	10ppm/°C	3.1 mA @ 1 MHz	8-MSOP	LTC6903CMS8-ND	3.90	2.59	2.20	LTC6903CMS8
I²C programmable oscillator	1kHz ~ 68MHz	0.1%	1.1 %	10ppm/°C	3.1 mA @ 1 MHz	8-MSOP	LTC6904CMS8-ND	4.20	2.79	2.35	LTC6904CMS8
Fixed frequency oscillator	25/50/100MHz	—	1.0 %	20ppm/°C	12 mA @ 100 MHz	TSOT-23-5	LTC6905CS5-100-ND	2.40	1.72	1.41	LTC6905CS5-100
Fixed frequency oscillator	25/50/100MHz	—	1.0 %	20ppm/°C	12 mA @ 100 MHz	TSOT-23-5	LTC6905CS5-100#PBF-ND*	2.40	1.72	1.41	LTC6905CS5-100#PBF
Fixed frequency oscillator	33.3/66.7/133MHz	—	1.0 %	20ppm/°C	15 mA @ 133 MHz	TSOT-23-5	LTC6905CS5-133-ND	2.40	1.72	1.41	LTC6905CS5-133
Fixed frequency oscillator	33.3/66.7/133MHz	—	1.0 %	20ppm/°C	15 mA @ 133 MHz	TSOT-23-5	LTC6905CS5-133#PBF-ND*	2.40	1.72	1.41	LTC6905CS5-133#PBF
Fixed frequency oscillator	20/40/80MHz	—	1.0 %	20ppm/°C	11 mA @ 80 MHz	TSOT-23-5	LTC6905CS5-80-ND	2.40	1.72	1.41	LTC6905CS5-80
Fixed frequency oscillator	20/40/80MHz	—	1.0 %	20ppm/°C	11 mA @ 80 MHz	TSOT-23-5	LTC6905CS5-80#PBF-ND*	2.40	1.72	1.41	LTC6905CS5-80#PBF
Fixed frequency oscillator	24/48/96MHz	—	1.0 %	20ppm/°C	12 mA @ 96 MHz	TSOT-23-5	LTC6905CS5-96-ND	2.40	1.72	1.41	LTC6905CS5-96
Fixed frequency oscillator	24/48/96MHz	—	1.0 %	20ppm/°C	12 mA @ 96 MHz	TSOT-23-5	LTC6905CS5-96#PBF-ND*	2.40	1.72	1.41	LTC6905CS5-96#PBF
Resistor programmable oscillator	17MHz ~ 170MHz	Infinite	1.4 %	20ppm/°C	5 mA @ 21 MHz	TSOT-23-5	LTC6905CS5#PBF-ND*	3.43	2.29	2.03	LTC6905CS5#PBF
Resistor programmable oscillator	10kHz ~ 1MHz	Infinite	0.65%	50ppm/°C	15 µA @ 100 kHz	TSOT-23-6	LTC6906CS6-ND	2.60	1.87	1.53	LTC6906CS6
Resistor programmable oscillator	10kHz ~ 1MHz	Infinite	0.65%	50ppm/°C	15 µA @ 100 kHz	TSOT-23-6	LTC6906CS6#PBF-ND*	2.60	1.87	1.53	LTC6906CS6#PBF
Resistor programmable oscillator	40kHz ~ 4MHz	Infinite	1.0 %	50ppm/°C	48 µA @ 400 kHz	TSOT-23-6	LTC6907CS6#PBF-ND*	2.60	1.87	1.53	LTC6907CS6#PBF

***RoHS Compliant**

NEW! FOXElectronics SMD Tuning Fork Crystals

Fig. 1

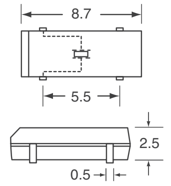

Fig. 2

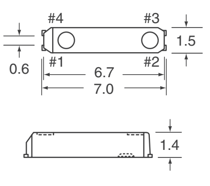

Fig. 3

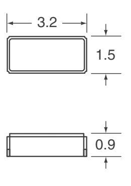

Specifications: • **Frequency Tolerance:** ±20ppm • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C • **Load Capacitance:** 12.5pF • **Insulation Resistance [Min]:** 500MΩ • **Drive Level:** 1μW

Fig.	Frequency (kHz)	ESR (kΩ)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 3,000	Fox Electronics Part No.
					FSRLF Series				
1	32.768	50	631-1000-1-ND	1.03	.89	.67	631-1000-2-ND	484.00/M	FSRLF
					FSXLF Series				
2	32.768	65	631-1001-1-ND	3.33	2.86	2.14	631-1001-2-ND	1731.00/M	FSXLF
					FX135 Series				
3	32.768	70	631-1002-1-ND	2.07	1.77	1.33	631-1002-2-ND	1074.00/M	FX135

FOXSDLF Series SMD Crystals

Specifications:
- **Frequency Tolerance:** ±50ppm
- **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C
- **Drive Level:** 0.5mW • **Shunt Capacitance:** 7pF

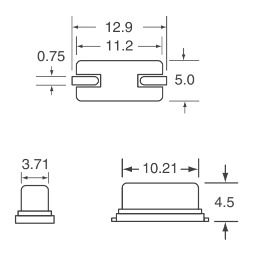

Load Capacitance	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
12.0pF	4.194304	631-1006-1-ND	.83	.72	.62	631-1006-2-ND	385.00	FOXSDLF/041
18.0pF	3.579545	631-1003-1-ND	.91	.79	.68	631-1003-2-ND	424.00	FOXSDLF/036S
20.0pF	3.686400	631-1004-1-ND	.91	.79	.68	631-1004-2-ND	424.00	FOXSDLF/0368-20
	4.000000	631-1005-1-ND	.83	.72	.62	631-1005-2-ND	385.00	FOXSDLF/040
	4.915200	631-1007-1-ND	.83	.72	.62	631-1007-2-ND	385.00	FOXSDLF/049-20
	6.000000	631-1008-1-ND	.83	.72	.62	631-1008-2-ND	385.00	FOXSDLF/060-20
	7.372800	631-1009-1-ND	.83	.72	.62	631-1009-2-ND	385.00	FOXSDLF/073-20
	8.000000	631-1010-1-ND	.83	.72	.62	631-1010-2-ND	385.00	FOXSDLF/080-20
	10.000000	631-1011-1-ND	.83	.72	.62	631-1011-2-ND	385.00	FOXSDLF/100-20
	11.059200	631-1012-1-ND	.83	.72	.62	631-1012-2-ND	385.00	FOXSDLF/115-20
	12.000000	631-1013-1-ND	.83	.72	.62	631-1013-2-ND	385.00	FOXSDLF/120-20
	12.288000	631-1014-1-ND	.83	.72	.62	631-1014-2-ND	385.00	FOXSDLF/128-20
	14.318180	631-1015-1-ND	.67	.58	.50	631-1015-2-ND	312.00	FOXSDLF/143-20
	14.745600	631-1016-1-ND	.83	.72	.62	631-1016-2-ND	385.00	FOXSDLF/147-20
	16.000000	631-1017-1-ND	.83	.72	.62	631-1017-2-ND	385.00	FOXSDLF/160-20
	20.000000	631-1018-1-ND	.83	.72	.62	631-1018-2-ND	385.00	FOXSDLF/200-20
	22.118400	631-1019-1-ND	.83	.72	.62	631-1019-2-ND	385.00	FOXSDLF/221-20
	24.000000	631-1020-1-ND	.91	.79	.68	631-1020-2-ND	424.00	FOXSDLF/240F-20
	24.576000	631-1021-1-ND	.91	.79	.68	631-1021-2-ND	424.00	FOXSDLF/245F-20
	25.000000	631-1022-1-ND	1.01	.88	.76	631-1022-2-ND	473.00	FOXSDLF/250F-20

FQ Series All Quartz SMD Crystals

Specifications: • **Frequency Tolerance:** ±30ppm • **Operating Temperature:** 0°C ~ 70°C • **Storage Temperature:** -30°C ~ 85°C • **Drive Level:** 0.5mW • **Shunt Capacitance:** 7pF • **Load Capacitance:** 20.0pF

Fig. 1

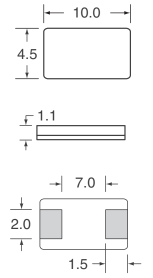

Fig. 2

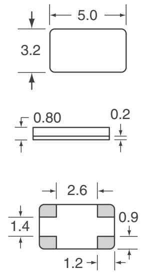

Fig. 3

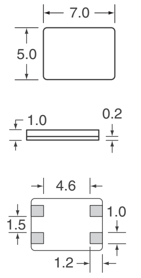

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
				FQ1045A Series				
1	3.6864	631-1032-1-ND	.77	.63	.56	631-1032-2-ND	392.00	FQ1045A-3.6864
	4.0000	631-1033-1-ND	.77	.63	.56	631-1033-2-ND	392.00	FQ1045A-4
	4.9152	631-1034-1-ND	.77	.63	.56	631-1034-2-ND	392.00	FQ1045A-4.9152
	6.0000	631-1035-1-ND	.77	.63	.56	631-1035-2-ND	392.00	FQ1045A-6
				FQ5032B Series				
2	12.0000	631-1023-1-ND	.80	.66	.58	631-1023-2-ND	406.00	FQ5032B-12
	16.0000	631-1024-1-ND	.80	.66	.58	631-1024-2-ND	406.00	FQ5032B-16
	20.0000	631-1025-1-ND	.80	.66	.58	631-1025-2-ND	406.00	FQ5032B-20
	24.0000	631-1026-1-ND	.80	.66	.58	631-1026-2-ND	406.00	FQ5032B-24
	24.5760	631-1027-1-ND	.80	.66	.58	631-1027-2-ND	406.00	FQ5032B-24.576
				FQ7050B Series				
3	7.3728	631-1028-1-ND	.66	.54	.48	631-1028-2-ND	336.00	FQ7050B-7.3728
	8.0000	631-1029-1-ND	.66	.54	.48	631-1029-2-ND	336.00	FQ7050B-8
	10.0000	631-1030-1-ND	.66	.54	.48	631-1030-2-ND	336.00	FQ7050B-10
	11.0592	631-1031-1-ND	.66	.54	.48	631-1031-2-ND	336.00	FQ7050B-11.0592

FX Series Ceramic SMD Crystals

Specifications: • **Frequency Tolerance:** ±50ppm • **Operating Temperature:** -10°C ~ 60°C • **Load Capacitance:** 20.0pF

Fig. 1

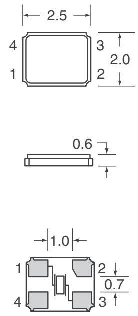

Fig. 2

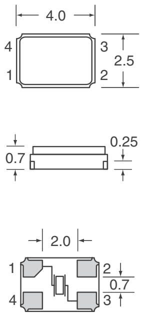

Fig. 3

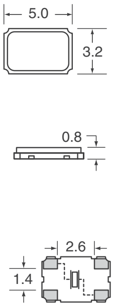

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
				FX252B Series				
1	16.0000	631-1036-1-ND	4.54	3.72	3.30	631-1036-2-ND	2310.00	FX252B-16
	20.0000	631-1037-1-ND	4.54	3.72	3.30	631-1037-2-ND	2310.00	FX252B-20
	24.0000	631-1038-1-ND	4.54	3.72	3.30	631-1038-2-ND	2310.00	FX252B-24
				FX425B Series				
2	12.0000	631-1039-1-ND	2.09	1.71	1.52	631-1039-2-ND	1064.00	FX425B-12
	16.0000	631-1040-1-ND	2.09	1.71	1.52	631-1040-2-ND	1064.00	FX425B-16
	20.0000	631-1041-1-ND	2.09	1.71	1.52	631-1041-2-ND	1064.00	FX425B-20
	24.0000	631-1042-1-ND	2.09	1.71	1.52	631-1042-2-ND	1064.00	FX425B-24
	24.5760	631-1043-1-ND	2.09	1.71	1.52	631-1043-2-ND	1064.00	FX425B-24.576
				FX532B Series				
3	10.0000	631-1044-1-ND	4.40	3.60	3.20	631-1044-2-ND	2240.00	FX532B-10
	11.0592	631-1045-1-ND	4.40	3.60	3.20	631-1045-2-ND	2240.00	FX532B-11.0592
	12.0000	631-1046-1-ND	4.40	3.60	3.20	631-1046-2-ND	2240.00	FX532B-12
	16.0000	631-1047-1-ND	4.40	3.60	3.20	631-1047-2-ND	2240.00	FX532B-16
	20.0000	631-1048-1-ND	4.40	3.60	3.20	631-1048-2-ND	2240.00	FX532B-20
	24.0000	631-1049-1-ND	4.40	3.60	3.20	631-1049-2-ND	2240.00	FX532B-24
	24.5760	631-1050-1-ND	4.40	3.60	3.20	631-1050-2-ND	2240.00	FX532B-24.576

NEW! FOXElectronics

Thru-Hole Crystals

Specifications: • **Shunt Capacitance:** 7pF • **Operating Temperature:** -20°C ~ 70°C • **Storage Temperature:** -40°C ~ 85°C

Fig. 1

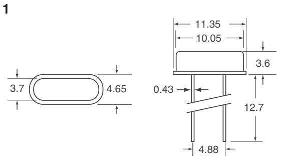

Fig. 2

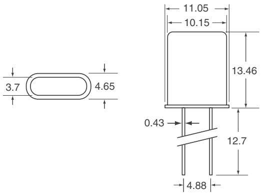

Fig.	Load Capacitance	Frequency (MHz)	Digi-Key Part No.	Price Each 1	10	50	Fox Electronics Part No.
			HC49SLF				
1	Series	3.686400	631-1094-ND	.65	.56	.51	FOXSLF/0368S
		4.000000	631-1096-ND	.57	.49	.45	FOXSLF/040A
		8.000000	631-1099-ND	.57	.49	.45	FOXSLF/080
		11.059200	631-1102-ND	.57	.49	.45	FOXSLF/115
		12.000000	631-1104-ND	.57	.49	.45	FOXSLF/120
		16.000000	631-1107-ND	.57	.49	.45	FOXSLF/160
		20.000000	631-1110-ND	.57	.49	.45	FOXSLF/200
	18.0pF	3.579545	631-1093-ND	.65	.56	.51	FOXSLF/036S
	20.0pF	3.686400	631-1095-ND	.65	.56	.51	FOXSLF/0368-20
		4.000000	631-1097-ND	.57	.49	.45	FOXSLF/040
			HC49SLF (cont.)				
1	20.0pF	7.372800	631-1098-ND	.57	.49	.45	FOXSLF/073-20
		8.000000	631-1100-ND	.57	.49	.45	FOXSLF/080-20
		10.000000	631-1101-ND	.57	.49	.45	FOXSLF/100-20
		11.059200	631-1103-ND	.57	.49	.45	FOXSLF/115-20
		12.000000	631-1105-ND	.57	.49	.45	FOXSLF/120-20
		14.745600	631-1106-ND	.57	.49	.45	FOXSLF/147-20
		16.000000	631-1108-ND	.57	.49	.45	FOXSLF/160-20
		18.432000	631-1109-ND	.57	.49	.45	FOXSLF/184-20
		20.000000	631-1111-ND	.57	.49	.45	FOXSLF/200-20
		25.000000	631-1112-ND	.57	.49	.45	FOXSLF/250F-20
			HC49ULF				
2	Series	3.686400	631-1079-ND	.53	.45	.42	FOXLF0368S
		4.000000	631-1082-ND	.53	.45	.42	FOXLF040A
		11.059200	631-1085-ND	.53	.45	.42	FOXLF115
		12.000000	631-1087-ND	.53	.45	.42	FOXLF120
		16.000000	631-1089-ND	.53	.45	.42	FOXLF160
	13.0pF	1.843200	631-1076-ND	1.21	1.05	.96	FOXLF018S
	18.0pF	3.579545	631-1078-ND	.53	.45	.42	FOXLF036S
	20.0pF	3.686400	631-1080-ND	.53	.45	.42	FOXLF0368-20
		4.000000	631-1081-ND	.53	.45	.42	FOXLF040
		8.000000	631-1083-ND	.53	.45	.42	FOXLF080-20
		10.000000	631-1084-ND	.53	.45	.42	FOXLF100-20
		11.059200	631-1086-ND	.53	.45	.42	FOXLF115-20
		12.000000	631-1088-ND	.53	.45	.42	FOXLF120-20
		16.000000	631-1090-ND	.53	.45	.42	FOXLF160-20
		20.000000	631-1091-ND	.54	.46	.43	FOXLF200-20
		25.000000	631-1092-ND	.61	.52	.48	FOXLF250F-20
	32.0pF	2.457600	631-1077-ND	1.09	.94	.86	FOXLF024S

FXO-HC735 Series SMD Oscillators

Specifications: • **Supply Voltage:** 3.3V ±5% • **Input Current [Typ]:** 40mA • **Output Symmetry:** 45% ~ 55% • **RiseTime/Fall Time:** 2ns • **Output Voltage:** (VOL) 10% VDD, (VOH) 90% VDD Min • **Output Enable/Disable Time:** 100ns • **Output Load [Typ]:** 15pF • **Start-up Time:** 10ms • **Frequency Tolerance:** ±50ppm • **Storage Temperature:** -55°C ~ 125°C

Pin Connections	
1	E/D
2	NC
3	GND
4	Out
5	NC
6	VDD

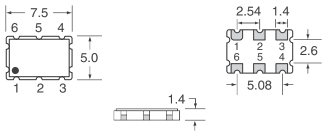

ENABLE/DISABLE Function	
E/O (Pin 1)	**Output (Pin 4)**
OPEN	ACTIVE
'1' Level VIH ≥ 70% VDD	ACTIVE
'0' Level VIL ≤ 30% VDD	High Z

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
1.8432	631-1051-1-ND	2.63	2.45	2.10	631-1051-2-ND	980.00	FXO-HC735-1.8432
10.0000	631-1052-1-ND	2.63	2.45	2.10	631-1052-2-ND	980.00	FXO-HC735-10
16.0000	631-1053-1-ND	2.63	2.45	2.10	631-1053-2-ND	980.00	FXO-HC735-16
20.0000	631-1054-1-ND	2.63	2.45	2.10	631-1054-2-ND	980.00	FXO-HC735-20
25.0000	631-1055-1-ND	2.63	2.45	2.10	631-1055-2-ND	980.00	FXO-HC735-25
27.0000	631-1056-1-ND	2.63	2.45	2.10	631-1056-2-ND	980.00	FXO-HC735-27
33.3330	631-1057-1-ND	2.63	2.45	2.10	631-1057-2-ND	980.00	FXO-HC735-33.333
40.0000	631-1058-1-ND	2.63	2.45	2.10	631-1058-2-ND	980.00	FXO-HC735-40
48.0000	631-1059-1-ND	2.63	2.45	2.10	631-1059-2-ND	980.00	FXO-HC735-48
50.0000	631-1060-1-ND	2.63	2.45	2.10	631-1060-2-ND	980.00	FXO-HC735-50

F254 Series 32.768kHz SMD Oscillator

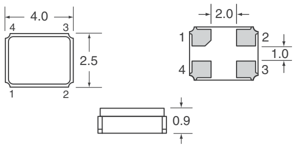

ENABLE/DISABLE Function	
(Pin 1)	**OUTPUT (Pin 3)**
OPEN	ACTIVE
'1' Level VIH ≥ 90% VDD	ACTIVE
'0' Level VIL ≤ 10% VDD	High Z

Pin Connections	
1	E/D
2	GND
3	Output
4	VDD

Specifications:
• **Supply Voltage:** 3.3V ±10% • **Frequency Tolerance:** ±20ppm • **Input Current:** 1.5µA • **Output Voltage:** -0.4V (VOH); 0.4V (VOL) • **Output Load:** 15pF • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -55°C ~ 125°C

Frequency (kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Fox Electronics Part No.
32.768	631-1113-1-ND	3.77	3.09	2.74	631-1113-2-ND	1918.00/M	F254

FOX914B Series 3.0V SMD TCXO

Specifications: • **Supply Voltage:** 3V ±5% • **Frequency Tolerance:** ±1ppm • **Input Current:** 2mA • **Output Voltage [Min]:** 0.8V p-p (Clipped Sine) • **Output Load:** 10pF • **Operating Temperature:** -20°C ~ 75°C • **Storage Temperature:** -40°C ~ 85°C

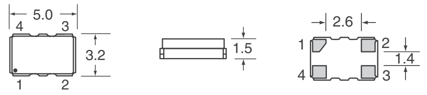

Pin Connections	
1	GND
2	GND
3	Output
4	VDD

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
12.80	631-1062-1-ND	6.45	4.78	4.26	631-1062-2-ND	3431.00	FOX914B-12.8
19.20	631-1063-1-ND	6.05	4.48	4.00	631-1063-2-ND	3219.00	FOX914B-19.2
19.44	631-1064-1-ND	5.45	4.04	3.60	631-1064-2-ND	2899.00	FOX914B-19.44
20.00	631-1065-1-ND	5.45	4.04	3.60	631-1065-2-ND	2899.00	FOX914B-20
26.00	631-1066-1-ND	5.45	4.04	3.60	631-1066-2-ND	2899.00	FOX914B-26

FOX924B Series 3.3V HCMOS SMD TCXO

Specifications: • **Supply Voltage:** 3.3V ±5% • **Frequency Tolerance:** ±1.5ppm • **Input Current:** 5mA • **Output Voltage:** (VOL) 10% VDD, (VOH) 90% VDD Min • **Output Load:** 15pF • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -40°C ~ 85°C

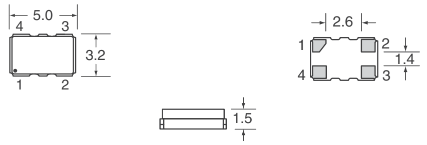

Pin Connections	
1	NC
2	GND
3	Output
4	VDD

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape & Reel Pricing 1,000	Fox Electronics Part No.
10.0000	631-1067-1-ND	8.38	6.20	5.53	631-1067-2-ND	4456.00	FOX924B-10
12.0000	631-1068-1-ND	8.38	6.20	5.53	631-1068-2-ND	4456.00	FOX924B-12
12.2880	631-1069-1-ND	8.38	6.20	5.53	631-1069-2-ND	4456.00	FOX924B-12.288
14.7456	631-1070-1-ND	8.38	6.20	5.53	631-1070-2-ND	4456.00	FOX924B-14.7456
16.0000	631-1071-1-ND	9.08	6.72	5.99	631-1071-2-ND	4828.00	FOX924B-16
19.4400	631-1072-1-ND	9.08	6.72	5.99	631-1072-2-ND	4828.00	FOX924B-19.44
20.0000	631-1073-1-ND	9.08	6.72	5.99	631-1073-2-ND	4828.00	FOX924B-20
25.0000	631-1074-1-ND	9.08	6.72	5.99	631-1074-2-ND	4828.00	FOX924B-25
27.0000	631-1075-1-ND	9.08	6.72	5.99	631-1075-2-ND	4828.00	FOX924B-27

AVX Clock Oscillators (SMD)

SPECIFICATIONS: • **Operating Temperature:** -10°C ~ 70°C • **Storage Temperature:** -55°C ~ 125°C

K30-3C Series: • Highly reliable miniature SMD ceramic pkg. • Frequency Tolerance: ±50ppm • Tri-state output inhibit • Low current consumption • Supply Current: 25mA Max. • Rise/Fall Time: 10nsec Max. • Load Capacitance: 15pF Max.

K50-3C Series: • Highly reliable SMD ceramic pkg. • Frequency Tolerance: ±50ppm • Tri-state output inhibit • Supply Current: 25mA Max. • Rise/Fall Time: 10nsec Max. • Load Capacitance: 15pF Max.

K50-HC Series: • Highly reliable SMD ceramic pkg. • Frequency Tolerance: ±50ppm • Tri-state output inhibit • Supply Current: 50mA Max. • Rise/Fall Time: 10nsec Max. • Load Capacitance: 50pF Max.

K50H-3C Series: • Special design pkg. for high frequency applications • Frequency Tolerance: ±50ppm • Tri-state output inhibit • Lower jitter • Supply Current: 60mA Max. • Rise/Fall Time: 10nsec Max. • Load Capacitance: 15pF Max.

Enable/Disable	
Pin #1	Pin #3
"H" or Open	Oscillation
"L"	High Impedance or Oscillation Stop*

* K50-HC Series does not include Oscillation Stop

Pin Connection	
1	Control
2	Case Gnd.
3	Output
4	+Vcc

K30-3C

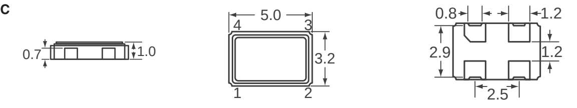

K50-3C and K50-HC

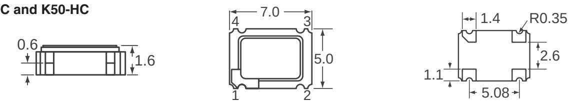

K50H-3C

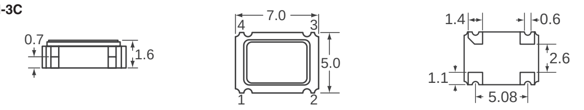

Model/Series	Frequency (MHz)	Supply Voltage (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	AVX Part No.
K30-3C	14.31818	3.3	478-2094-1-ND	3.00	2.70	2.25	1.80	478-2094-2-ND	1500.00	K30-3C0SE14.31818MR
	16.00000	3.3	478-2095-1-ND	3.00	2.70	2.25	1.80	478-2095-2-ND	1500.00	K30-3C0SE16.0000MR
	20.00000	3.3	478-2096-1-ND	3.00	2.70	2.25	1.80	478-2096-2-ND	1500.00	K30-3C0SE20.0000MR
	24.57600	3.3	478-2097-1-ND	3.00	2.70	2.25	1.80	478-2097-2-ND	1500.00	K30-3C0SE24.5760MR
	25.00000	3.3	478-2098-1-ND	3.00	2.70	2.25	1.80	478-2098-2-ND	1500.00	K30-3C0SE25.0000MR
	27.00000	3.3	478-2099-1-ND	3.00	2.70	2.25	1.80	478-2099-2-ND	1500.00	K30-3C0SE27.0000MR
	29.49890	3.3	478-2100-1-ND	3.00	2.70	2.25	1.80	478-2100-2-ND	1500.00	K30-3C0SE29.4989MR
	40.00000	3.3	478-2101-1-ND	3.00	2.70	2.25	1.80	478-2101-2-ND	1500.00	K30-3C0SE40.0000MR
	50.00000	3.3	478-2102-1-ND	3.00	2.70	2.25	1.80	478-2102-2-ND	1500.00	K30-3C0SE50.0000MR
	60.00000	3.3	478-2103-1-ND	3.00	2.70	2.25	1.80	478-2103-2-ND	1500.00	K30-3C0SE60.0000MR
	64.00000	3.3	478-2104-1-ND	3.00	2.70	2.25	1.80	478-2104-2-ND	1500.00	K30-3C0SE64.0000MR
	66.66670	3.3	478-2105-1-ND	3.00	2.70	2.25	1.80	478-2105-2-ND	1500.00	K30-3C0SE66.6667MR
K50-3C	14.31818	3.3	478-2084-1-ND	3.00	2.70	2.25	1.80	478-2084-2-ND	1500.00	K50-3C0SE14.31818MR
	16.00000	3.3	478-2085-1-ND	3.00	2.70	2.25	1.80	478-2085-2-ND	1500.00	K50-3C0SE16.0000MR
	24.57600	3.3	478-2086-1-ND	3.00	2.70	2.25	1.80	478-2086-2-ND	1500.00	K50-3C0SE24.5760MR
	25.00000	3.3	478-2087-1-ND	3.00	2.70	2.25	1.80	478-2087-2-ND	1500.00	K50-3C0SE25.0000MR
	29.49890	3.3	478-2088-1-ND	3.00	2.70	2.25	1.80	478-2088-2-ND	1500.00	K50-3C0SE29.4989MR
	40.00000	3.3	478-2089-1-ND	3.00	2.70	2.25	1.80	478-2089-2-ND	1500.00	K50-3C0SE40.0000MR
	50.00000	3.3	478-2090-1-ND	3.00	2.70	2.25	1.80	478-2090-2-ND	1500.00	K50-3C0SE50.0000MR
	66.66670	3.3	478-2091-1-ND	3.00	2.70	2.25	1.80	478-2091-2-ND	1500.00	K50-3C0SE66.6667MR
K50-HC	1.84320	5.0	478-2066-1-ND	3.00	2.70	2.25	1.80	478-2066-2-ND	1500.00	K50-HC0CSE1.8432MR
	3.68640	5.0	478-2067-1-ND	3.00	2.70	2.25	1.80	478-2067-2-ND	1500.00	K50-HC0CSE3.6864MR
	8.00000	5.0	478-2068-1-ND	3.00	2.70	2.25	1.80	478-2068-2-ND	1500.00	K50-HC0CSE8.0000MR
	14.31818	5.0	478-2069-1-ND	3.00	2.70	2.25	1.80	478-2069-2-ND	1500.00	K50-HC0CSE14.31818MR
	16.00000	5.0	478-2071-1-ND	3.00	2.70	2.25	1.80	478-2071-2-ND	1500.00	K50-HC0CSE16.0000MR
	20.00000	5.0	478-2072-1-ND	3.00	2.70	2.25	1.80	478-2072-2-ND	1500.00	K50-HC0CSE20.0000MR
	24.00000	5.0	478-2073-1-ND	3.00	2.70	2.25	1.80	478-2073-2-ND	1500.00	K50-HC0CSE24.0000MR
	24.57600	5.0	478-2074-1-ND	3.00	2.70	2.25	1.80	478-2074-2-ND	1500.00	K50-HC0CSE24.5760MR
	25.00000	5.0	478-2075-1-ND	3.00	2.70	2.25	1.80	478-2075-2-ND	1500.00	K50-HC0CSE25.0000MR
	27.00000	5.0	478-2076-1-ND	5.25	4.73	3.94	3.15	478-2076-2-ND	2625.00	K50-HC0CSE27.0000MR
	28.63630	5.0	478-2077-1-ND	3.00	2.70	2.25	1.80	478-2077-2-ND	1500.00	K50-HC0CSE28.6363MR
	29.49890	5.0	478-2078-1-ND	3.00	2.70	2.25	1.80	478-2078-2-ND	1500.00	K50-HC0CSE29.4989MR
	40.00000	5.0	478-2079-1-ND	3.00	2.70	2.25	1.80	478-2079-2-ND	1500.00	K50-HC0CSE40.0000MR
	48.00000	5.0	478-2080-1-ND	3.00	2.70	2.25	1.80	478-2080-2-ND	1500.00	K50-HC0CSE48.0000MR
	49.15200	5.0	478-2081-1-ND	3.00	2.70	2.25	1.80	478-2081-2-ND	1500.00	K50-HC0CSE49.1520MR
	50.00000	5.0	478-2082-1-ND	3.00	2.70	2.25	1.80	478-2082-2-ND	1500.00	K50-HC0CSE50.0000MR
	66.66670	5.0	478-2083-1-ND	3.00	2.70	2.25	1.80	478-2083-2-ND	1500.00	K50-HC0CSE66.6667MR
K50H-3C	106.25000	3.3	478-2092-1-ND	6.00	5.40	4.50	3.60	478-2092-2-ND	3000.00	K50H-3C0-SE106.250MR
	125.00000	3.3	478-2093-1-ND	6.00	5.40	4.50	3.60	478-2093-2-ND	3000.00	K50H-3C0-SE125.000MR

ECS INC. INTERNATIONAL SMD Monolithic Crystal Filters

Fig. 1

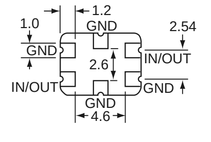

Fig. 2

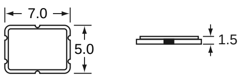

Specifications:

• **No. of Poles:** 2 • **Ripple:** 1dB • **Insertion Loss:** 2.5dB [21.4 MHz]; 3dB [45 MHz] • **Operating Temperature:** -30°C ~ 85°C • **Passband (Min) @ Frequency Band (f0±):** 3dB @ 7.5kHz [21.4 MHz]; 3dB @ 15kHz [45 MHz] • **Stopband (Max) @ Frequency Band (f0±):** 10dB @ 25kHz [21.4 MHz]; 15dB @ 60kHz [45 MHz]

Fig.	Frequency (MHz)	Terminating Impedance	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	ECS Part No.
RoHS Compliant									
1	45.0	1,200Ohm/1.8pF	X714CT-ND	10.56	8.78	6.99	X714TR-ND	4875.00	96SMF45A30-TR
2	21.4	1,500Ohm/2.5pF	X713CT-ND	7.31	6.08	4.84	X713TR-ND	3375.00	96SMF21A15-TR

ECS INC. INTERNATIONAL

Monolithic Crystal Filters - "10.7MHz"

12.5kHz Channel Spacing: • Operating Temperature Range: -20°C ~ 70°C • Pass Bandwidth: 3dB, ±3.75kHz Minimum • Stop Bandwidth: 20dB ±18kHz for Model 10.7-7.5A; 40dB ±14kHz for Model 10.7-7.5B
25kHz Channel Spacing: • Operating Temperature Range: -20°C ~ 70°C • Pass Bandwidth: 3dB, ±7.5kHz Minimum • Stop Bandwidth: 18dB ±25kHz for Model 10.7-15A; 40dB ±25kHz for Model 10.7-15B
50kHz Channel Spacing: • Operating Temperature Range: -20°C ~ 70°C • Pass Bandwidth: 3dB, ±15kHz Minimum • Stop Bandwidth: 15dB ±50kHz for Model 10.7-30A; 30dB ±40kHz for Model 10.7-30B

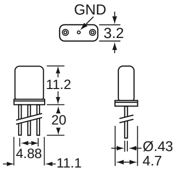

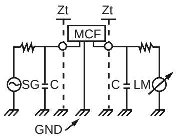

2-Pole MCF Test Circuit Zt:
Terminating Impedance

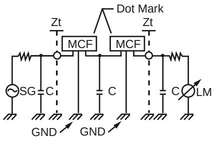

4-pole MCF Test Circuit Zt:
Terminating Impedance

No. of Poles	Ripple Max.	Insertion Loss	Terminating Impedance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
12.5kHz Channel Spacing - RoHS Compliant									
2	.5dB	1.5dB	1.8kΩ/5pF	X701-ND	5.20	4.32	3.44	2.66	ECS-10.7-7.5A
4	1dB	2.5dB	1.8kΩ/4pF	X702-ND*	12.03	9.99	7.96	6.15	ECS-10.7-7.5B
25kHz Channel Spacing - RoHS Compliant									
2	.5dB	2dB	3kΩ/2pF	X703-ND	3.09	2.57	2.05	1.58	ECS-10.7-15A
4	1dB	2.5dB	3kΩ/2pF	X704-ND*	6.34	5.27	4.20	3.24	ECS-10.7-15B
50kHz Channel Spacing - RoHS Compliant									
2	.5dB	1.5dB	5kΩ/0pF	X705-ND	4.23	3.51	2.80	2.16	ECS-10.7-30A
4	1dB	2.5dB	5.5kΩ/-1pF	X706-ND*	8.78	7.29	5.81	4.49	ECS-10.7-30B

*Package is HC-49/U x 2

Monolithic Crystal Filters - "21.4MHz"

12.5kHz Channel Spacing: • Operating Temperature Range: -20°C ~ 70°C • Pass Bandwidth: 3dB, ±3.75kHz Minimum • Stop Bandwidth: 18dB ±12.5kHz for Model 21K-7.5A; 35dB ±12.5kHz for Model 21K7.5B
25kHz Channel Spacing: • Operating Temperature Range: -20°C ~ 70°C • Pass Bandwidth: 3dB, ±7.5kHz Minimum • Stop Bandwidth: 18dB ±25kHz for Model 21K15A; 40dB ±25kHz for Model 21K15B
50kHz Channel Spacing: • Operating Temperature Range: -20°C ~ 70°C • Pass Bandwidth: 3dB, ±15kHz Minimum • Stop Bandwidth: 15dB ±45kHz for Model 21K30A; 40dB ±50kHz for Model 21K30B

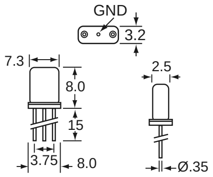

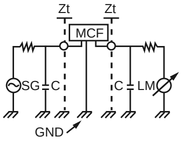

2-Pole MCF Test Circuit Zt:
Terminating Impedance

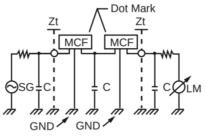

4-Pole MCF Test Circuit Zt:
Terminating Impedance

No. of Poles	Ripple Max.	Insertion Loss	Terminating Impedance	Digi-Key Part No.	Price Each 1	10	100	500	ECS Part No.
12.5kHz Channel Spacing - RoHS Compliant									
2	.5dB	2dB	1.5kΩ/6pF	X707-ND	4.39	3.65	2.91	2.25	ECS-21K-7.5A
4	1dB	2.5dB	850Ω/5pF	X708-ND*	10.24	8.51	6.78	5.23	ECS-21K-7.5B
25kHz Channel Spacing - RoHS Compliant									
2	.5dB	1.5dB	1.5kΩ/3pF	X709-ND	4.39	3.65	2.91	2.25	ECS-21K-15A
4	1dB	2dB	1.5kΩ/2pF	X710-ND*	10.24	8.51	6.78	5.23	ECS-21K-15B
50kHz Channel Spacing - RoHS Compliant									
2	.5dB	1.5dB	1.5kΩ/1pF	X711-ND	4.39	3.65	2.91	2.25	ECS-21K-30A
4	1dB	2dB	1.8kΩ/.5pF	X712-ND*	10.24	8.51	6.78	5.23	ECS-21K-30B

*Package is UM-1 x 2

SAW Filters

Fig. 1

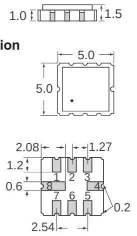

Pin Connection
1 Input
2 GND
3 GND
4 GND
5 Output
6 GND
7 Coupling
8 GND

Fig. 2

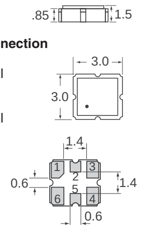

Pin Connection
1 GND
2 Signal
3 GND
4 GND
5 Signal
6 GND

Fig. 3

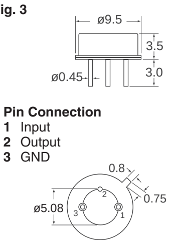

Pin Connection
1 Input
2 Output
3 GND

Fig.	Freq. (MHz)	Inser. Loss (dB)	Passband Min. (MHz)	Passband Max (MHz)	Digi-Key Part No.	Price Each 1	10	100	T & R* Pricing 1,000	ECS Part No.
RoHS Compliant										
1	400.0	6	399.917	400.083	XC994CT-ND	3.57	3.22	2.68	1785.00	ECS-DSF400.0A-51-TR
2	947.5	3.3	922.5	—	XC995CT-ND	3.57	3.22	2.68	1785.00	ECS-DSF947.5B-21-TR
3	479.5	23	453.8	507.2	XC992-ND	2.25	2.03	1.62	—	ECS-D479.5B
	480.0	21	463.4	498.6	XC993-ND	2.25	2.03	1.62	—	ECS-D480A

* For Tape & Reel Part No., change CT-ND to TR-ND.

ABRACON CORPORATION
The Power of Linking Together

AFS Series SMD Saw Filters

Fig. 1

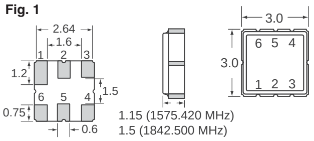

Fig. 2

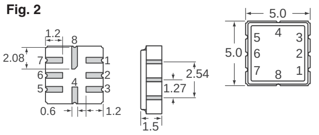

Fig. 3

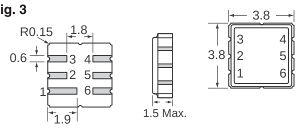

Fig. 4

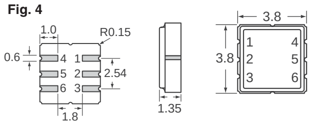

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1	1,575.420	535-9239-1-ND	3.75	3.38	2.82	2.25	535-9239-2-ND	1875.00	AFS1575.42S4
	1,842.500	535-9240-1-ND	3.75	3.38	2.82	2.25	535-9240-2-ND	1875.00	AFS1842.5S4
2	303.825	535-9241-1-ND	3.75	3.38	2.82	2.25	535-9241-2-ND	1875.00	AFS303.825E
	315.020	535-9242-1-ND	3.75	3.38	2.82	2.25	535-9242-2-ND	1875.00	AFS315E
	374.000	535-9243-1-ND	3.75	3.38	2.82	2.25	535-9243-2-ND	1875.00	AFS374E
	390.000	535-9244-1-ND	3.75	3.38	2.82	2.25	535-9244-2-ND	1875.00	AFS390E
3	418.000	535-9245-1-ND	3.75	3.38	2.82	2.25	535-9245-2-ND	1875.00	AFS418S3
	434.000	535-9246-1-ND	3.75	3.38	2.82	2.25	535-9246-2-ND	1875.00	AFS434S3
	869.000	535-9247-1-ND	3.75	3.38	2.82	2.25	535-9247-2-ND	1875.00	AFS869S3
	915.000	535-9248-1-ND	3.75	3.38	2.82	2.25	535-9248-2-ND	1875.00	AFS915S3
	916.500	535-9249-1-ND	3.75	3.38	2.82	2.25	535-9249-2-ND	1875.00	AFS916.5S3
4	930.500	535-9250-1-ND	3.75	3.38	2.82	2.25	535-9250-2-ND	1875.00	AFS930S3

See manufacturer's data sheets for pinout information

ASR Series SMD Saw Resonators

Fig. 1

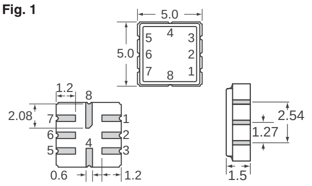

Fig. 2

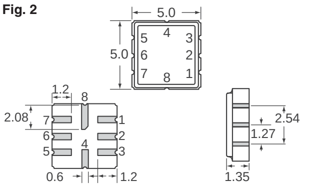

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Abracon Part No.
1	303.825	535-9275-1-ND	2.25	2.03	1.69	1.35	535-9275-2-ND	1125.00	ASR303.825E
	390.000	535-9277-1-ND	2.25	2.03	1.69	1.35	535-9277-2-ND	1125.00	ASR390E
2	315.000	535-9276-1-ND	2.25	2.03	1.69	1.35	535-9276-2-ND	1125.00	ASR315E
	423.220	535-9278-1-ND	2.25	2.03	1.69	1.35	535-9278-2-ND	1125.00	ASR423.22E
	433.420	535-9279-1-ND	2.25	2.03	1.69	1.35	535-9279-2-ND	1125.00	ASR433.42E
	433.920	535-9280-1-ND	2.25	2.03	1.69	1.35	535-9280-2-ND	1125.00	ASR433.92E
	868.350	535-9281-1-ND	2.25	2.03	1.69	1.35	535-9281-2-ND	1125.00	ASR868.35E
	915.000	535-9282-1-ND	2.25	2.03	1.69	1.35	535-9282-2-ND	1125.00	ASR915E

See manufacturer's data sheets for pinout information

ECS INC. INTERNATIONAL Ceramic Resonators - Surface Mount

CR-2 Series:
- **Frequency Accuracy:** ±0.5%
- **Stability in Temperature:** -20°C ~ 80°C, ±0.3%
- **Aging for Ten Years:** ±0.5%
- **Built-In Capacitance CR-2B:** 10.0 ~ 12.0MHz 30pF, 16.0 ~ 20.0MHz 15pF ±20%

HFR Series:
- **Frequency Accuracy:** ±0.5%
- **Stability in Temperature:** -20° ~ 80°C; 20.0 ~ 30.0MHz ±0.4%; 40.0 ~ 50.0MHz ±0.3%
- **Aging for Ten Years:** ±0.3%
- **Built-In Capacitance HFR-B:** 8pF ±20%

SR1 Series:
- **Frequency Accuracy:** ±0.5%
- **Stability in Temperature:** -20°C ~ 80°C, ±0.3%
- **Aging for Ten Years:** ±0.3%
- **Built-In Capacitance SR1-B:** 30pF ±20%

	Dimensions		
Series	**A**	**B**	**C**
HFR	2.0	2.5	1.0
CR-2	3.1	3.7	1.2
SR1 A	4.0	7.5	1.8
SR1 B	4.0	7.5	2.2

Fig. 1

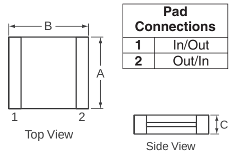

Pad Connections	
1	In/Out
2	Out/In

Fig. 2

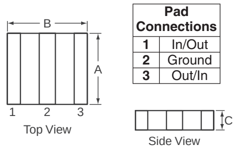

Pad Connections	
1	In/Out
2	Ground
3	Out/In

Fig. 3

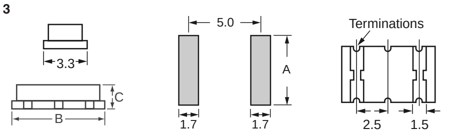

Fig. 4

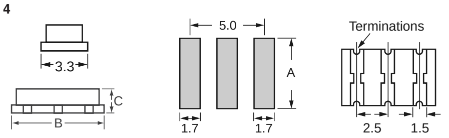

Fig.	Series	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Size	Pricing	ECS Part No.
			RoHS Compliant						
1	ECS-CR2-A	10.00	XC1102CT-ND	.51	.46	.39	1,000	255.00	ECS-CR2-10.00-A-TR
		12.00	XC1103CT-ND	.51	.46	.39	1,000	255.00	ECS-CR2-12.00-A-TR
		16.00	XC1104CT-ND	.51	.46	.39	1,000	255.00	ECS-CR2-16.00-A-TR
		20.00	XC1105CT-ND	.51	.46	.39	1,000	255.00	ECS-CR2-20.00-A-TR
2	ECS-CR2-B	10.00	XC1106CT-ND	.57	.52	.43	1,000	285.00	ECS-CR2-10.00-B-TR
		12.00	XC1107CT-ND	.57	.52	.43	1,000	285.00	ECS-CR2-12.00-B-TR
		16.00	XC1108CT-ND	.57	.52	.43	1,000	285.00	ECS-CR2-16.00-B-TR
		20.00	XC1109CT-ND	.57	.52	.43	1,000	285.00	ECS-CR2-20.00-B-TR
	ECS-HFR-B	20.00	XC1094CT-ND	.57	.52	.43	1,000	285.00	ECS-HFR-20.00-B-TR
		24.00	XC1095CT-ND	.57	.52	.43	1,000	285.00	ECS-HFR-24.00-B-TR
		25.00	XC1096CT-ND	.57	.52	.43	1,000	285.00	ECS-HFR-25.00-B-TR
		27.00	XC1097CT-ND	.57	.52	.43	1,000	285.00	ECS-HFR-27.00-B-TR
		30.00	XC1098CT-ND	.57	.52	.43	1,000	285.00	ECS-HFR-30.00-B-TR
		40.00	XC1099CT-ND	.57	.52	.43	1,000	285.00	ECS-HFR-40.00-B-TR
		48.00	XC1100CT-ND	.57	.52	.43	1,000	285.00	ECS-HFR-48.00-B-TR
3	ECS-SR1-A	3.58	X932CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-3.58-A-TR
		4.00	X933CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-4.00-A-TR
		4.19	X934CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-4.19-A-TR
		6.00	X935CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-6.00-A-TR
		8.00	X936CT-ND	.70	.60	.47	2,500	280.00/M	ECS-SR1-8.00-A-TR
4	ECS-SR1-B	3.58	X927CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-3.58-B-TR
		4.00	X928CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-4.00-B-TR
		4.19	X929CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-4.19-B-TR
		6.00	X930CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-6.00-B-TR
		8.00	X931CT-ND	.77	.66	.52	2,500	308.00/M	ECS-SR1-8.00-B-TR

* For Tape & Reel Part No., change CT-ND to TR-ND.

Ceramic Resonators - Through Hole

ZTT Series with Built-In Load Capacitance:
- **Frequency Accuracy:** ±0.5%
- **Stability in Temperature:** -20°C ~ 80°C, ±0.3%
- **Aging for Ten Years:** ±0.3%
- **Built-in Capacitance:** 30pf ±20%

ZTA and ZTB Series:
- **Frequency Accuracy:** ±0.5%
- **Stability in Temperature:** -20°C ~ 80°C, ±0.3%
- **Aging for Ten Years:** ±0.5%
- **Operating Temperature:** -20°C ~ 80°C

Fig. 1

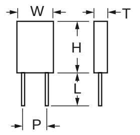

Fig. 2

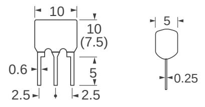

Fig. 3

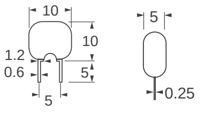

Fig. 4

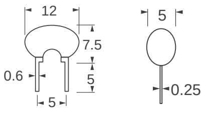

Fig.	Model/Series	Frequency	Digi-Key Part No.	Price Each 1	10	100	ECS Part No.
			RoHS Compliant				
1	ZTB	200kHz	X919-ND	.84	.70	.56	ZTB200
		400kHz	X920-ND	.68	.57	.45	ZTB400P
		455kHz	X921-ND	.68	.57	.45	ZTB455E
		500kHz	X922-ND	.68	.57	.45	ZTB500E
		540kHz	X923-ND	.68	.57	.45	ZTB540P
		640kHz	X924-ND	.68	.57	.45	ZTB640P
		800kHz	X925-ND	.68	.57	.45	ZTB800J
		1,000kHz	X926-ND	.68	.57	.45	ZTB1000J
2	ZTT	3.58MHz	X901-ND	.54	.45	.36	ZTT-3.58MG
		3.68MHz	XC1017-ND	.50	.45	.36	ZTT-3.68MG
		4MHz	X902-ND	.54	.45	.36	ZTT-4.00MG
		4.19MHz	X903-ND	.54	.45	.36	ZTT-4.19MG
		6MHz	X904-ND	.54	.45	.36	ZTT-6.00MT
		8MHz	X905-ND	.54	.45	.36	ZTT-8.00MT
		10MHz	X906-ND	.54	.45	.36	ZTT-10.00MT
		12MHz	X907-ND	.54	.45	.36	ZTT-12.00MT
		16MHz	X908-ND	.54	.45	.36	ZTT-16.00MX
		20MHz	X909-ND	.54	.45	.36	ZTT-20.00MX
3	ZTA	6MHz	X913-ND	.49	.41	.33	ZTA-6.00MT
		8MHz	X914-ND	.49	.41	.33	ZTA-8.00MT
		10MHz	X915-ND	.49	.41	.33	ZTA-10.00MT
		12MHz	X916-ND	.49	.41	.33	ZTA-12.00MT
		16MHz	X917-ND	.49	.41	.33	ZTA-16.00MX
		20MHz	X918-ND	.49	.41	.33	ZTA-20.00MX
4	ZTA	3.58MHz	X910-ND	.49	.41	.33	ZTA-3.58MG
		4MHz	X911-ND	.49	.41	.33	ZTA-4.00MG
		4.19MHz	X912-ND	.49	.41	.33	ZTA-4.19MG

ECS-SDR1 One Port SAW Resonators

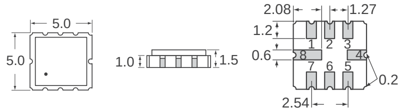

Pin Connection			
1	No Conn.	**5**	No Conn.
2	Input	**6**	Output
3	No Conn.	**7**	No Conn.
4	Ground	**8**	Ground

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	ECS Part No.
			RoHS Compliant				
315.00	XC996CT-ND	3.57	3.22	2.68	XC996TR-ND	1785.00	ECS-SDR1-3150-TR
418.00	XC997CT-ND	3.57	3.22	2.68	XC997TR-ND	1785.00	ECS-SDR1-4180-TR
433.92	XC998CT-ND	3.57	3.22	2.68	XC998TR-ND	1785.00	ECS-SDR1-4339-TR

Panasonic

Ceramic Resonators - Through Hole

EFO-MN

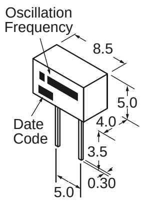

EFO-MC — Built-In Capacitors Type: Includes two capacitors, constructing Colpitts oscillation circuits. High accuracy and stable characteristics will be realized with the selected capacitors encased, small in size due to the new design of construction.

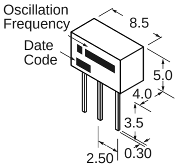

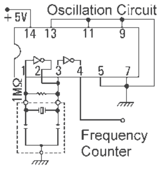

Freq. (MHz)	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Panasonic Part No.
Ceramic Resonators — EFO-MN							
3.00	PX300MN-ND	1.04	8.91	69.80	424.00	396.00/M	EFO-MN3004A4
3.58	PX358MN-ND	.63	5.37	42.09	255.86	238.80/M	EFO-MN3584A4
4.00	PX400MN-ND	.63	5.37	42.09	255.86	238.80/M	EFO-MN4004A4
5.00	PX500MN-ND	.63	5.37	42.09	255.86	238.80/M	EFO-MN5004A4
6.00	PX600MN-ND	.63	5.37	42.09	255.86	238.80/M	EFO-MN6004A4
8.00	PX800MN-ND	.63	5.37	42.09	255.86	238.80/M	EFO-MN8004A4
10.00	PX1000MN-ND	.90	7.70	60.35	366.86	342.40/M	EFO-MN1005A4
12.00	PX1200MN-ND	1.14	9.81	76.85	467.00	436.00/M	EFO-MN1205A4
Ceramic Resonators with Built-In Capacitor — EFO-MC							
2.00	PX200MC-ND	1.03	8.79	68.86	419.00	391.00/M	EFO-MC2004A4
3.00	PX300MC-ND	1.04	8.91	69.80	424.00	396.00/M	EFO-MC3004A4
3.58	PX358MC-ND	.63	5.37	42.09	255.86	238.80/M	EFO-MC3584A4
4.00	PX400MC-ND	.63	5.37	42.09	256.00	239.00/M	EFO-MC4004A4
5.00	PX500MC-ND	.63	5.37	42.09	255.86	238.80/M	EFO-MC5004A4
6.00	PX600MC-ND	.63	5.37	42.09	255.86	238.80/M	EFO-MC6004A4
8.00	PX800MC-ND	.63	5.37	42.09	255.86	238.80/M	EFO-MC8004A4
10.00	PX1000MC-ND	.90	7.70	60.35	366.86	342.40/M	EFO-MC1005A4

Ceramic Resonators Surface Mount

Features: • Constructed with ceramic package • High reliability against soldering heat and mechanical stress • Moisture-proof sealing • Stable against solvent cleaning • Designed for reflow soldering • Flat-bottom plate for better mountings

Applications:
• Clock generator for various microprocessers • Carrier between telecommunication equipment (telephone to telephone, personal computer to printer, etc.)

Fig. 1 Type EFO-BM

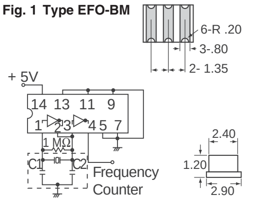

Fig. 2 Type EFJ-C

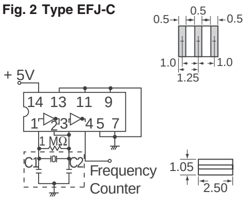

Fig. 3 Type EFO-JM

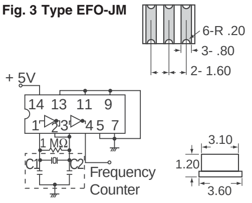

Fig. 4 Type EFO-P

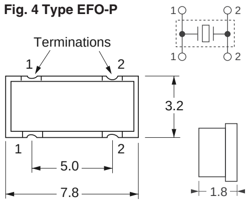

Fig. 5 Type EFO-S

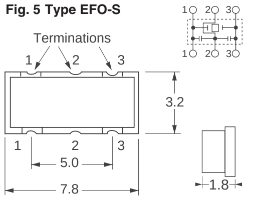

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
Type BM Surface Mount with Built-In Capacitor										
1	16.000	PX160BCT-ND	.64	5.49	42.98	192.05	PX160BTR-ND	1,000	261.00	EFO-BM1605E5
	16.930	PX169BCT-ND	.72	6.19	48.46	216.51	PX169BTR-ND	1,000	295.00	EFO-BM1695E5
	20.000	PX200BCT-ND	.72	6.19	48.46	216.51	PX200BTR-ND	1,000	295.00	EFO-BM2005E5
Type JC Surface Mount with Built-In Capacitor										
2	20.000	PX200CCT-ND	.62	5.28	41.34	184.70	PX200CTR-ND	3,000	251.00/M	EFJ-C2005E5B
	30.000	PX300CCT-ND	.62	5.28	41.34	184.70	PX300CTR-ND	3,000	251.00/M	EFJ-C3005E5B
	40.000	PX400CCT-ND	.62	5.28	41.34	184.70	PX400CTR-ND	3,000	251.00/M	EFJ-C4005E5B
Type JM Surface Mount with Built-In Capacitor										
3	32.000	PX320JCT-ND	.72	6.19	48.46	216.51	PX320JTR-ND	1,000	295.00	EFO-JM3205E5
	33.868	PX338JCT-ND	.72	6.19	48.46	216.51	PX338JTR-ND	1,000	295.00	EFO-JM3385E5
	40.000	PX400JCT-ND	.64	5.49	42.98	192.05	PX400JTR-ND	1,000	261.00	EFO-JM4005E5
Type P Surface Mount, General Purpose, Low-Profile										
4	3.580	PX358PCT-ND	.72	6.17	48.36	216.09	PX358PTR-ND	2,500	294.00/M	EFO-P3584E5
	4.000	PX400PCT-ND	.72	6.17	48.36	216.09	PX400PTR-ND	2,500	294.00/M	EFO-P4004E5
	4.190	PX419PCT-ND	1.58	13.50	105.75	472.50	PX419PTR-ND	2,500	642.86/M	EFO-P4194E5
	5.000	PX500PCT-ND	1.61	13.77	107.87	481.95	PX500PTR-ND	2,500	655.72/M	EFO-P5004E5
	6.000	PX600PCT-ND	1.61	13.77	107.87	481.95	PX600PTR-ND	2,500	655.72/M	EFO-P6004E5
	8.000	PX800PCT-ND	.72	6.17	48.36	216.09	PX800PTR-ND	2,500	294.00/M	EFO-P8004E5
Type S Surface Mount with Built-In Capacitor, Low-Profile										
5	3.580	PX358SCT-ND	.72	6.17	48.36	216.09	PX358STR-ND	2,500	294.00/M	EFO-S3584E5
	4.000	PX400SCT-ND	.97	8.30	65.00	290.43	PX400STR-ND	2,500	228.58/M	EFO-S4004E5
	4.190	PX419SCT-ND	1.61	13.77	107.87	481.95	PX419STR-ND	2,500	655.72/M	EFO-S4194E5
	5.000	PX500SCT-ND	1.64	14.04	109.98	491.40	PX500STR-ND	2,500	668.58/M	EFO-S5004E5
	6.000	PX600SCT-ND	.72	6.17	48.36	216.09	PX600STR-ND	2,500	294.00/M	EFO-S6004E5
	8.000	PX800SCT-ND	.72	6.17	48.36	216.09	PX800STR-ND	2,500	294.00/M	EFO-S8004E5

SAW Resonators

Capable of fundamental wave oscillation, and it is particularly suited for simplification, size reduction and stabilization of the circuit, compared with conventional LC oscillation and quartz crystal oscillation.

Features: • Capable of fundamental oscillation • Superior temperature characteristics • Suited for simplification, size reduction and stabilization of the circuit.

Recommended Applications: • Oscillation circuit for remote control (garage door opener, security system) • Various kinds of local oscillation circuit.

Specifications: • Operating Temperature: -20°C ~ 80°C • Max. Frequency Drift: -150 ~ 50 ppm/°C (-20°C ~ 80°C).

1 Port Type: • Resonant Resistance: 30Ω Max. • Capacitance: 2.0pF ±0.5.

2 Port Type: • Insertion Loss: 15dB Max. • Loaded Q: 7000 Minimum (5000 Minimum for 418.00 and 433.92 frequency) • Capacitance: 1.3pF ±0.3 • Phase Shift: 180°.

Port Type	Frequency (MHz)	Digi-Key Part No.	Pricing 1	10	100	Panasonic Part No.
1 Port Type	224.5 ±0.25%	PX224S1-ND	6.87	58.86	461.07	EFO-H224MS12
	418 ±0.25%	PX418S1-ND	6.87	58.86	461.07	EFO-H418MS12
2 Port Type	224.5 ±0.25%	PX224S2-ND	6.87	58.86	461.07	EFO-H224MS03
	418 ±0.25%	PX418S2-ND	6.87	58.86	461.07	EFO-H418MS03

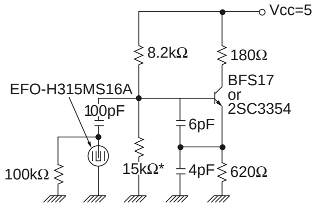

Example Circuit for Reference Only
*12kΩ when used with 2SC3354

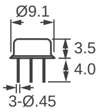

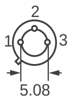

Pin Connection	
1	In/Out
2	Out/In
3	GND

Panasonic SAW Filters

Features: • Small case size based on CSP technology • Low loss with excellent attenuation

Fig. 1

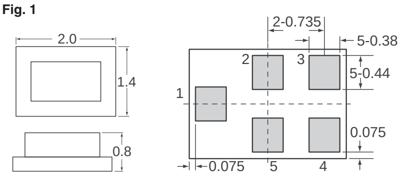

A **Input - Unbalanced** **Output - Balanced**

Pin Connection	
1	Input
2	GND
3	Output
4	Output
5	GND

B **Input - Unbalanced** **Output - Unbalanced**

Pin Connection	
1	Input
2	GND
3	GND
4	Output
5	GND

Fig. 2

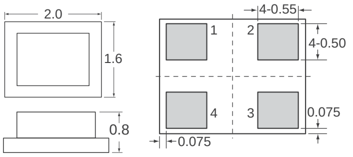

Input - Unbalanced **Output - Unbalanced**

Pin Connection	
1	Input
2	GND
3	Output
4	GND

Fig.	Frequency (MHz)	Passband (MHz)	Insertion Loss (dB)	Input/Output Impedance (Ω)	Application	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
							1	10	100			
1A	881.50	869 ~ 894	1.4	50/150	GSM850 Rx Filter	P13003CT-ND	1.14	1.03	.86	P13003TR-ND	567.75/M	EFCH881MTCA1
	881.50	869 ~ 894	1.5	50/100	CDMA800 Rx Filter	P13009CT-ND	1.14	1.03	.86	P13009TR-ND	567.75/M	EFCH881MTCA7
	942.50	925 ~ 960	1.8	50/150	EGSM900 Rx Filter	P13000CT-ND	1.14	1.03	.86	P13000TR-ND	567.75/M	EFCH942MTCA7
	1,575.42	1,574.42 ~ 1,576.42	1.1	50/100	GPS Rx Filter	P13012CT-ND	1.52	1.37	1.14	P13012TR-ND	757.50/M	EFCH1575TCA1
	1,842.50	1,805 ~ 1,880	1.7	50/150	DCS1800 Rx Filter	P13001CT-ND	1.52	1.37	1.14	P13001TR-ND	757.50/M	EFCH1842TCA7
	1,960.00	1,930 ~ 1,990	1.5	50/150	PCS1900 Rx Filter	P13002CT-ND	1.52	1.37	1.14	P13002TR-ND	757.50/M	EFCH1960TCA1
	2,140.00	2,110 ~ 2,170	1.8	50/100	WCDMA Rx Filter	P13011CT-ND	1.52	1.37	1.14	P13011TR-ND	757.50/M	EFCH2140TCA1
1B	836.50	824 ~ 849	1.7	50/50	CDMA800 Tx Filter; GSM850 Tx Filter	P13008CT-ND	1.14	1.03	.86	P13008TR-ND	567.75/M	EFCH836MTCD1
	881.50	869 ~ 894	1.6	50/50	GSM850 Rx Filter; CDMA800 Rx Filter	P13007CT-ND	1.14	1.03	.86	P13007TR-ND	567.75/M	EFCH881MTCD1
	942.50	925 ~ 960	1.7	50/50	EGSM900 Rx Filter	P13004CT-ND	1.14	1.03	.86	P13004TR-ND	567.75/M	EFCH942MTCD1
	1,842.50	1,805 ~ 1,880	1.9	50/50	DCS1800 Rx Filter	P13005CT-ND	1.52	1.37	1.14	P13005TR-ND	757.50/M	EFCH1842TCD1
	1,950.00	1,920 ~ 1,980	2.3	50/50	WCDMA Tx Filter	P13010CT-ND	1.52	1.37	1.14	P13010TR-ND	757.50/M	EFCH1950TCD1
	1,960.00	1,930 ~ 1,990	1.7	50/50	PCS1900 Rx Filter	P13006CT-ND	1.52	1.37	1.14	P13006TR-ND	757.50/M	EFCH1960TCD1
2	1,575.42	1,573.92 ~ 1,576.92	1.15	50/50	GPS Rx Filter	P13013CT-ND	1.52	1.37	1.14	P13013TR-ND	757.50/M	EFCH1575TCB1

AVX Thin Film Low Pass Filters

The LP0603 ITF (Integrated Thin Film) Lead-Free LGA Low Pass Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Low Pass Filters are offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

Features: • Miniature Size (0603) • Frequency Range: 900MHz-2.4GHz • Low profile • Reliable and rugged • Self Alignment during reflow • Excellent solderability • Low Parasitics • Better Heat Dissipation • **Operating Temperature:** -40°C ~ 85°C • **Storage Temperature:** -40°C ~ 85°C • **Power Rating:** 3W • **VSWR:** 1.4 dB Max • **Impedance:** 50Ω

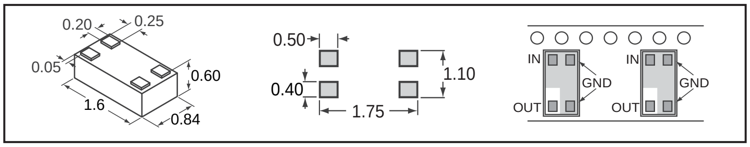

Frequency Range	Insertion Loss [Typ] dB	Attenuation (Min) @ Frequency	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 3,000	AVX Part No.
				1	10	100			
890MHz ~ 915MHz	.35	25dB @ 1,804MHz; 14dB @ 2,706MHz	478-2908-1-ND	1.09	.95	.87	478-2908-2-ND	508.00/M	LP0603A0902ANTR
935MHz ~ 960MHz	.35	25dB @ 1,894MHz; 17dB @ 2,841MHz	478-2909-1-ND	1.09	.95	.87	478-2909-2-ND	508.00/M	LP0603A0947ANTR
1710MHz ~ 1785MHz	.3	25dB @ 3,494MHz; 17dB @ 5,241MHz	478-2910-1-ND	1.09	.95	.87	478-2910-2-ND	508.00/M	LP0603A1747ANTR
1805MHz ~ 1880MHz	.3	27dB @ 3,684MHz; 15dB @ 5,526MHz	478-2911-1-ND	1.09	.95	.87	478-2911-2-ND	508.00/M	LP0603A1842ANTR
1840MHz ~ 1920MHz	.3	25dB @ 3,760MHz; 17dB @ 5,640MHz	478-2912-1-ND	1.09	.95	.87	478-2912-2-ND	508.00/M	LP0603A1880ANTR
1920MHz ~ 1980MHz	.3	27dB @ 3,900MHz; 15dB @ 5,850MHz	478-2913-1-ND	1.09	.95	.87	478-2913-2-ND	508.00/M	LP0603A1950ANTR
2110MHz ~ 2170MHz	.3	27dB @ 4,280MHz; 17dB @ 6,420MHz	478-2914-1-ND	1.09	.95	.87	478-2914-2-ND	508.00/M	LP0603A2140ANTR
2412MHz ~ 2472MHz	.3	25dB @ 4,884MHz; 17dB @ 7,326MHz	478-2915-1-ND	1.09	.95	.87	478-2915-2-ND	508.00/M	LP0603A2442ANTR

PBRC-H Series (MHz Band Ceramic Resonators)

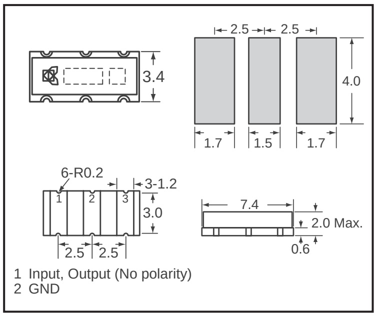

Specifications:
• **Operating Temperature:** -40°C ~ 85°C

Features: • Excellent frequency stability • Low profile • Reflow solderable • Excellent solderability (Nickel barrier + gold flash termination)

Applications: • Automotive and automotive accessories • Camcorders • Digital cameras • PDAs • PC peripherals

Frequency Range (MHz)	Tolerance (25°C)	Temperature Stability	Standard Frequency
3.58 ~ 8.00	±0.5% (op. ±0.3%)	±0.5% (-40°C ~ 85°C)	3.58, 4.00, 4.19, 6.00, 8.00
8.01 ~ 20.00	±0.7% (op. ±0.5%)	±0.1% (-40°C ~ 85°C)	10.0, 12.0, 16.0, 20.0

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	AVX Part No.
		1	10	100			
3.58	478-2106-1-ND	.56	.49	.38	478-2106-2-ND	262.50/M	PBRC-3.58HR
4.00	478-2107-1-ND	.56	.49	.38	478-2107-2-ND	262.50/M	PBRC-4.00HR
4.19	478-2108-1-ND	.56	.49	.38	478-2108-2-ND	262.50/M	PBRC-4.19HR
6.00	478-2109-1-ND	.56	.49	.38	478-2109-2-ND	262.50/M	PBRC-6.00HR
8.00	478-2110-1-ND	.56	.49	.38	478-2110-2-ND	262.50/M	PBRC-8.00HR
10.00	478-2111-1-ND	.94	.82	.63	478-2111-2-ND	437.50/M	PBRC-10.00HR
12.00	478-2112-1-ND	.94	.82	.63	478-2112-2-ND	437.50/M	PBRC-12.00HR
16.00	478-2113-1-ND	.94	.82	.63	478-2113-2-ND	437.50/M	PBRC-16.00HR
20.00	478-2114-1-ND	.94	.82	.63	478-2114-2-ND	437.50/M	PBRC-20.00HR

PARS Series (SAW Resonators)

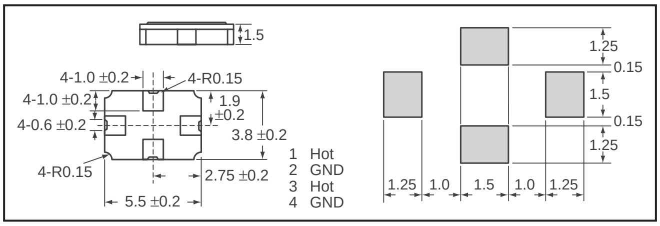

Specifications: • **Operating Temperature:** -40°C ~ 85°C

Features: • Low profile • Highly reliable SMD ceramic package • Excellent temperature characteristics

Applications: • Keyless entry systems (automotive) • Garage door openers • Security systems • 1 port type SMD resonator

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 2,000	AVX Part No.
		1	10	100			
315.00	478-2115-1-ND	2.10	1.80	1.41	478-2115-2-ND	840.00/M	PARS315.00K04R
418.00	478-2116-1-ND	2.10	1.80	1.41	478-2116-2-ND	840.00/M	PARS418.00K04R
433.92	478-2117-1-ND	2.10	1.80	1.41	478-2117-2-ND	840.00/M	PARS433.92K04R

Murata Electronics

Ceramic Resonators - Surface Mount

Fig. 1

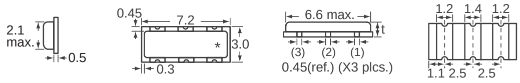

Fig. 2

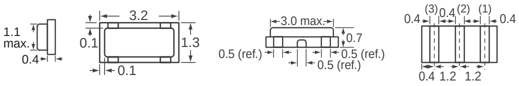

Fig. 3

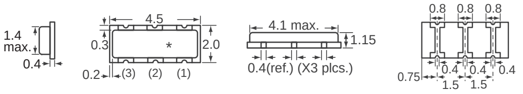

Fig. 4

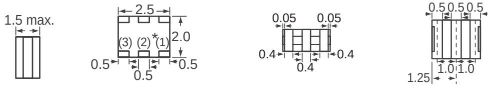

Fig.	Freq. (MHz)	Operating Temperature	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Size	Pricing	Murata Part No.
CSTCC–G Series - Commercial									
1	2.00	-20°C ~ 80°C	490-1193-1-ND	.72	.60	.47	2,000	359.80/M	CSTCC2M00G53-R0
	3.58	-20°C ~ 80°C	490-1194-1-ND	.56	.46	.36	2,000	277.55/M	CSTCC3M58G53-R0
CSTCC–G Series - Industrial									
1	2.00	-40°C ~ 125°C	490-1216-1-ND	.85	.74	.58	2,000	341.32/M	CSTCC2M00G53Z-R0
CSTCE–G Series - Commercial									
2	8.00	-20°C ~ 80°C	490-1195-1-ND	.59	.50	.39	3,000	296.45/M	CSTCE8M00G55-R0
	10.00	-20°C ~ 80°C	490-1196-1-ND	.65	.54	.42	3,000	325.85/M	CSTCE10M0G55-R0
	12.00	-20°C ~ 80°C	490-1197-1-ND	.76	.63	.49	3,000	378.53/M	CSTCE12M0G55-R0
3	4.00	-20°C ~ 80°C	490-1200-1-ND	.54	.45	.35	3,000	271.78/M	CSTCR4M00G53-R0
	4.19	-20°C ~ 80°C	490-1201-1-ND	.54	.45	.35	3,000	271.78/M	CSTCR4M19G53-R0
	4.91	-20°C ~ 80°C	490-1202-1-ND	.62	.52	.41	3,000	311.50/M	CSTCR4M91G53-R0
	5.00	-20°C ~ 80°C	490-1203-1-ND	.62	.52	.41	3,000	311.50/M	CSTCR5M00G53-R0
	6.00	-20°C ~ 80°C	490-1204-1-ND	.54	.45	.35	3,000	271.78/M	CSTCR6M00G53-R0
CSTCE–G Series - Industrial									
2	8.00	-40°C ~ 125°C	490-1219-1-ND	.62	.52	.40	3,000	310.80/M	CSTCE8M00G55Z-R0
	12.00	-40°C ~ 125°C	490-1220-1-ND	.70	.58	.45	3,000	348.78/M	CSTCE12M0G55Z-R0
3	4.00	-40°C ~ 125°C	490-1217-1-ND	.65	.55	.43	3,000	261.94/M	CSTCR4M00G53Z-R0
	6.00	-40°C ~ 125°C	490-1218-1-ND	.65	.55	.43	3,000	327.43/M	CSTCR6M00G53Z-R0
CSTCE–V Series - Commercial									
2	16.00	-20°C ~ 80°C	490-1198-1-ND	.87	.72	.56	3,000	434.53/M	CSTCE16M0V53-R0
	20.00	-20°C ~ 80°C	490-1199-1-ND	.83	.70	.54	3,000	417.38/M	CSTCE20M0V53-R0
CSTCW–X Series - Commercial									
4	24.00	-20°C ~ 80°C	490-1205-1-ND	.73	.61	.47	3,000	364.00/M	CSTCW24M0X53-R0
	48.00	-20°C ~ 80°C	490-1206-1-ND	.73	.61	.47	3,000	364.00/M	CSTCW48M0X51-R0

* For Tape & Reel Part No., change -1-ND to -2-ND.

Ceramic Resonators - Leaded

Fig. 1

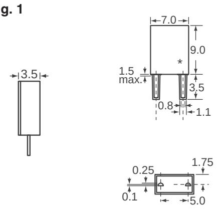

Fig. 2

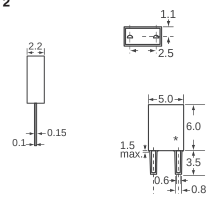

Fig. 3

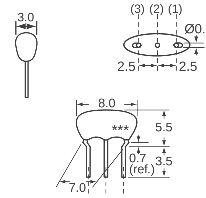

Fig. 4

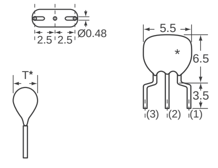

* T = 3.5±1.0 (16.00 - 32.99MHz)
T = 3.0±1.0 (33.00 - 70.00MHz)

Fig.	Frequency	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
CSBLA Series - Commercial							
1	400.00kHz	-20°C ~ 80°C	490-1186-ND	.76	.64	.49	CSBLA400KECE-B0
	455.00kHz	-20°C ~ 80°C	490-1187-ND	.70	.59	.46	CSBLA455KEC8-B0
	480.00kHz	-20°C ~ 80°C	490-1188-ND	.72	.60	.47	CSBLA480KEC8-B0
	500.00kHz	-20°C ~ 80°C	490-1189-ND	.72	.60	.47	CSBLA500KEC8-B0
	540.00kHz	-20°C ~ 80°C	490-1190-ND	.70	.59	.46	CSBLA540KEC8-B0
	640.00kHz	-20°C ~ 80°C	490-1191-ND	.70	.59	.46	CSBLA640KEC8-B0
2	800.00kHz	-20°C ~ 80°C	490-1192-ND	.88	.74	.57	CSBLA800KJ58-B0
	1.00MHz	-20°C ~ 80°C	490-1185-ND	.89	.75	.58	CSBLA1M00J58-B0
CSTLS Series - Commercial							
3	3.58MHz	-20°C ~ 80°C	490-1207-ND	.33	.28	.22	CSTLS3M58G53-B0
	4.00MHz	-20°C ~ 80°C	490-1208-ND	.32	.27	.21	CSTLS4M00G53-B0
	4.19MHz	-20°C ~ 80°C	490-1209-ND	.33	.28	.22	CSTLS4M19G53-B0
	5.00MHz	-20°C ~ 80°C	490-1210-ND	.33	.28	.22	CSTLS5M00G53-B0
	6.00MHz	-20°C ~ 80°C	490-1211-ND	.33	.28	.22	CSTLS6M00G53-B0
	8.00MHz	-20°C ~ 80°C	490-1212-ND	.35	.29	.23	CSTLS8M00G53-B0
	10.00MHz	-20°C ~ 80°C	490-1213-ND	.38	.32	.25	CSTLS10M0G53-B0
4	16.00MHz	-20°C ~ 80°C	490-1214-ND	.58	.48	.38	CSTLS16M0X55-B0
	20.00MHz	-20°C ~ 80°C	490-1215-ND	.58	.48	.38	CSTLS20M0X53-B0
	50.00MHz	-20°C ~ 80°C	490-2606-ND	.68	.57	.44	CSTLS50M0X51-B0
CSTLS Series - Industrial							
3	4.00MHz	-40°C ~ 125°C	490-1221-ND	.34	.29	.23	CSTLS4M00G53Z-B0
	6.00MHz	-40°C ~ 125°C	490-1222-ND	.42	.35	.27	CSTLS6M00G53Z-B0
	8.00MHz	-40°C ~ 125°C	490-1223-ND	.37	.32	.25	CSTLS8M00G53Z-B0

Ceramic Filters

SFECV10M7 Series for FM receivers are monolithic type ceramic filters which utilize the thickness expander mode of the piezoelectric ceramic

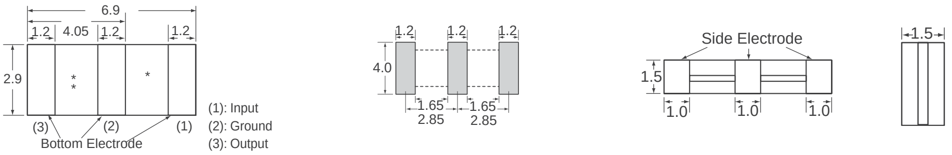

Frequency (MHz)	Attenuation (Min) @ Frequency	Bandwidth (kHz)	Insertion Loss (dB)	Attenuation (dB)	Input/Output Impedance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Murata Part No.
10.7 ±30kHz	20dB @ 320kHz	110	6	35	330/330	490-1229-1-ND	1.83	1.59	1.22	490-1229-2-ND	851.90/M	SFECV10M7KA00-R0
10.7 ±30kHz	20dB @ 380kHz	150	5.5	35	330/330	490-1230-1-ND	1.75	1.52	1.17	490-1230-2-ND	815.68/M	SFECV10M7JA00-R0
10.7 ±40kHz	20dB @ 950kHz	500	2	20	470/470	490-1231-1-ND	2.39	2.07	1.60	490-1231-2-ND	1113.53/M	SFECV10M7CQ0C01-R0

Ceramic Discriminator

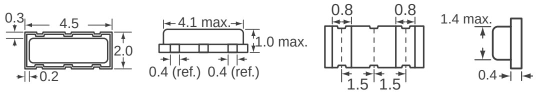

CDSCB10M7 Series forms a resonator on a piezoelectric ceramic substrate. In combination with IC's this type obtains stable demodulation characteristics in a wide bandwidth.

Specifications: • Recovered Audio Output: 75mV Minimum • Recovered Audio 3dB (kHz): 500 Minimum • Distortion: 1% max. • Detection Method: Quadrature

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Murata Part No.
10.7	490-1240-1-ND	1.07	.89	.69	490-1240-2-ND	536.55/M	CDSCB10M7GA119-R0

TDK Ceramic Resonators - Leaded

Features:
- The FCR series provide a high degree of stability between the quartz oscillator and the LC or RC oscillating circuits. Temperature characteristics: -20°C ~ 85°C

Specifications:
- **Frequency Tolerance:** ±0.5%
- **Operating Temperature:** -40°C ~ 85°C

Fig. 1

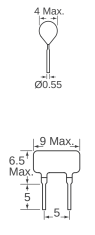

Fig. 2

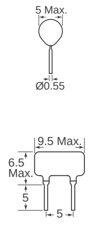

Fig. 3

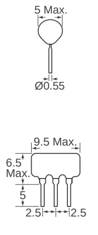

Fig. 4 ***NEW!***

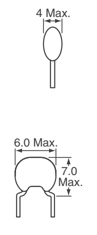

Fig.	Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	T & R** Pricing 1,500	TDK Part No.
FCR Series							
1	16.00	445-1646-ND*	.39	3.24	25.13	—	FCR16.0M2G
2	4.00	445-1642-ND*	.30	2.51	19.50	—	FCR4.0M5
	4.19	445-1643-ND*	.30	2.51	19.50	—	FCR4.19M5
	6.00	445-1644-ND*	.30	2.51	19.50	—	FCR6.0M5
	8.00	445-1645-ND*	.31	2.56	19.87	—	FCR8.0M5
3	4.00	445-1638-ND*	.31	2.56	19.87	—	FCR4.0MC5
	4.19	445-1639-ND*	.31	2.56	19.87	—	FCR4.19MC5
	6.00	445-1640-ND*	.31	2.56	19.87	—	FCR6.0MC5
	8.00	445-1641-ND*	.33	2.71	21.00	—	FCR8.0MC5
4	16.00	445-2568-1-ND ***NEW!***	.34	3.08	25.63	171.00/M	FCR16.0M6T
	18.00	445-2569-1-ND ***NEW!***	.34	3.08	25.63	171.00/M	FCR18.0M6T
	18.43	445-2570-1-ND ***NEW!***	.34	3.08	25.63	171.00/M	FCR18.43M6T
	24.00	445-2571-1-ND ***NEW!***	.34	3.08	25.63	171.00/M	FCR24.0M6T
	25.00	445-2572-1-ND ***NEW!***	.34	3.08	25.63	171.00/M	FCR25.0M6T
	33.86	445-2573-1-ND ***NEW!***	.34	3.08	25.63	171.00/M	FCR33.86M6T
	40.00	445-2574-1-ND ***NEW!***	.34	3.08	25.63	171.00/M	FCR40.0M6T

*Bulk ** For Tape & Reel Part No., change -1-ND to -2-ND.

Ceramic Resonators - Surface Mount

Features:
- The CCR Series are thin type ceramic chip resonators. 3rd overtone thickness mode elements are used for the 16.93 ~ 50MHz band.
- Built-in load capacitance

Specifications: • **Frequency Tolerance:** ±0.5% • **Operating Temperature:** -40°C ~ 85°C

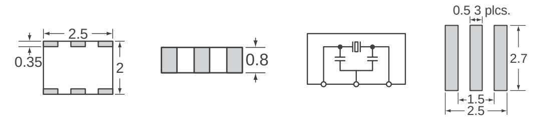

Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	TDK Part No.
CCR Series							
16.93	445-1648-1-ND	.63	.55	.43	445-1648-2-ND	294.58/M	CCR16.93MXC7T
20.00	445-1649-1-ND	.63	.55	.43	445-1649-2-ND	294.58/M	CCR20.0MXC7T
25.00	445-1650-1-ND	.63	.55	.43	445-1650-2-ND	294.58/M	CCR25.0MXC7T
30.00	445-1651-1-ND	.60	.52	.40	445-1651-2-ND	280.00/M	CCR30.0MXC7T
33.86	445-1652-1-ND	.60	.52	.40	445-1652-2-ND	280.00/M	CCR33.86MXC7T
40.00	445-1653-1-ND	.60	.52	.40	—	—	CCR40.0MXC7T
48.00	445-1654-1-ND	1.09	.95	.73	445-1654-2-ND	507.50/M	CCR48.0MXC7A15T

TOKO Ceramic Resonators - Surface Mount

Fig. 1

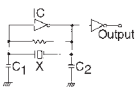

Output	
IC	1/5μ - PD4069
VDD	+5V
X	Ceramic Element
C1, C2	Capacitors

A

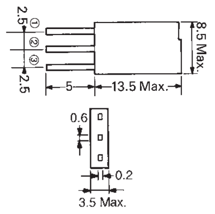

B

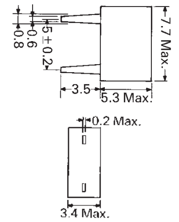

TOKO ceramic resonators utilize the piezoelectric principle converting a mechanical force (stress) into an electrical signal or converting an electrical signal into a mechanical force. The ceramic resonator is a thin section of piezoelectric ceramic material, such as quartz, whose sides are metallized into a corresponding pair of electrodes and upon the application of current produce a lengthwise vibration.

Oscillating Frequency	External Components	Digi-Key Part No.	Price Each 1	10	100	Toko Part No.
Fig. 1 A — CRL Type						
262kHz ±3%	C1-300pF, C2-300pF	TK9921-ND	3.55	2.85	1.78	CRL262
Fig. 1 B — CRK Type						
400kHz ±1%	C1-560pF, C2-200pF	TK9940-ND	1.88	1.52	.94	BP11DCRK400

FM Ceramic Filters

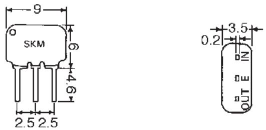

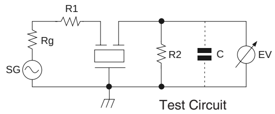

Test Circuit

- **Frequency:** 10.7MHz • **Impedance:** 330Ω

Bandwidth (kHz)	Insertion Loss (Max.)	Spurious Response	Digi-Key Part No.	Price Each 1	10	100	Toko Part No.
CFSK Type							
150	10dB	40dB	TK2308-ND	2.12	1.72	1.06	SK107M4N-AO-20

EPCOS ***NEW!*** SAW Bandpass Filters

Fig.	Frequency (MHz)	Insertion Loss (dB)	Bandwidth (MHz)	Digi-Key Part No.	Price Each 1	25	50	100	Mfr. Part No.
1	43.75	14.8	6	495-1952-5-ND	3.19	2.77	2.55	2.13	B39438X6964M100
				495-1953-5-ND	3.75	3.25	3.00	2.50	B39438X6964N201
2	44	14.7	6	495-1691-5-ND	2.81	2.44	2.25	1.88	B39440X6965N201
		16.2	8	495-1954-5-ND	16.88	14.63	13.50	11.25	B39440X6855M100
		20	6.5	495-1690-5-ND	3.19	2.77	2.55	2.13	B39440X6941N201

Pin Configuration	
1	Input
2	Input - Ground
3	Chip Carrier - Ground
4	Output
5	Output

Fig. 1

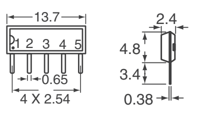

Fig. 2

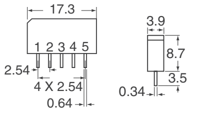

SAW Filters - Surface Mount

Applications: • The front-end SAW filter in the receiver eliminates interference from the incoming RF signal, thus increasing selectivity and sensitivity in short-range devices.
Tighter tolerances are available upon request

Fig. 1

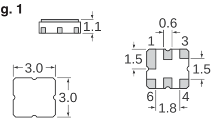

Fig. 2

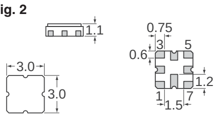

Fig. 3

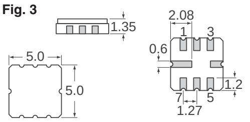

Fig. 4

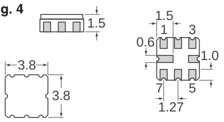

Fig. 5

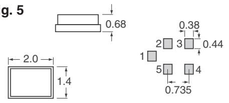

Fig.	Frequency (MHz)	Passband (MHz)	Insertion Loss (dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Epcos Part No.
					1	10	100		Size	Pricing	
1	312.2	311.9 ~ 312.5	1.8	495-2354-1-ND	1.65	1.49	1.24	495-2354-2-ND	3,000	825.00/M	B39311B3712U410
	315	314.7 ~ 315.3	1.7	495-1667-1-ND	1.65	1.49	1.24	495-1667-2-ND	3,000	750.00/M	B39321B3711U410
	433.92	433 ~ 434.71	2.0	495-1870-1-ND	1.65	1.49	1.24	495-1870-2-ND	3,000	825.00/M	B39431B3710U410
	864	862.5 ~ 865.5	4.0	495-2353-1-ND	1.50	1.35	1.13	495-2353-2-ND	3,000	750.00/M	B39861B3563U410
	869	868 ~ 870	2.4	495-2361-1-ND	1.65	1.49	1.24	495-2361-2-ND	3,000	825.00/M	B39871B3715U410
	915	902 ~ 928	2.9	495-1674-1-ND	1.65	1.49	1.24	495-1674-2-ND	9,000	700.00/M	B39921B3588U410
	1575.42	1574.22 ~ 1576.62	1.3	495-2363-1-ND	1.50	1.35	1.13	495-2363-2-ND	3,000	750.00/M	B39162B3520U410
2	1575.42	1574.22 ~ 1576.62	1.3	495-2341-1-ND	1.50	1.35	1.13	495-2341-2-ND	3,000	750.00/M	B39162B4060U810
3	303.8	303.62 ~ 303.98	3.0	495-2325-1-ND	1.86	1.68	1.40	495-2325-2-ND	3,000	930.00/M	B39301B3553U310
	311.06	310.94 ~ 311.18	2.0	495-2326-1-ND	1.86	1.68	1.40	495-2326-2-ND	3,000	930.00/M	B39311B3577U310
	315	314.84 ~ 315.16	2.1	495-2329-1-ND	1.86	1.68	1.40	495-2329-2-ND	3,000	930.00/M	B39321B3751U310
	315	314.9 ~ 315.1	3.3	495-2327-1-ND	2.34	2.11	1.76	495-2327-2-ND	3,000	1170.00/M	B39321B3576U310
	345.03	344.9 ~ 345.1	2.0	495-2330-1-ND	1.86	1.68	1.40	495-2330-2-ND	3,000	930.00/M	B39351B3559U310
	418.04	417.88 ~ 418.2	2.0	495-2331-1-ND	1.86	1.68	1.40	495-2331-2-ND	3,000	930.00/M	B39421B3552U310
	433.42	433.31 ~ 433.53	3.3	495-2332-1-ND	2.34	2.11	1.76	495-2332-2-ND	3,000	1170.00/M	B39431B3567U310
	433.92	433.76 ~ 434.08	2.0	495-2335-1-ND	1.86	1.68	1.40	495-2335-2-ND	3,000	930.00/M	B39431B3750U310
	433.92	433.83 ~ 434.01	3.4	495-2289-1-ND	2.34	2.11	1.76	495-2289-2-ND	3,000	1170.00/M	B39431B3575U310
	433.96	433.8 ~ 434.12	2.2	495-2359-1-ND	1.86	1.68	1.40	495-2359-2-ND	3,000	930.00/M	B39431B3555U310
	434.42	434.26 ~ 434.58	2.0	495-2336-1-ND	1.86	1.68	1.40	495-2336-2-ND	3,000	930.00/M	B39431B3757U310
	449.14	449 ~ 449.28	2.2	495-2360-1-ND	1.77	1.60	1.33	495-2360-2-ND	3,000	885.00/M	B39451B3558U310
	868.3	868.2 ~ 868.4	4.2	495-2337-1-ND	2.34	2.11	1.76	495-2337-2-ND	3,000	1170.00/M	B39871B3574U310
	868.39	868 ~ 868.78	2.7	495-1961-1-ND	1.86	1.68	1.40	495-1961-2-ND	3,000	930.00/M	B39871B3570U310
	868.69	868 ~ 869.38	3.1	495-2338-1-ND	1.86	1.68	1.40	495-2338-2-ND	3,000	930.00/M	B39871B3571U310
	869.69	869.2 ~ 870.18	2.8	495-2339-1-ND	1.86	1.68	1.40	495-2339-2-ND	3,000	930.00/M	B39871B3573U310
4	312.2	312.05 ~ 312.35	1.9	495-2355-1-ND	1.77	1.60	1.33	495-2355-2-ND	3,000	885.00/M	B39311B3766Z810
	313.85	313.7 ~ 314	1.9	495-2356-1-ND	1.95	1.76	1.47	495-2356-2-ND	3,000	975.00/M	B39311B3768Z810
	315	314.5 ~ 315.5	2.7	495-2328-1-ND	1.77	1.60	1.33	495-2328-2-ND	3,000	885.00/M	B39321B3581Z810
	315	314.85 ~ 315.15	1.9	495-1668-1-ND	1.95	1.76	1.47	495-1668-2-ND	1,000	885.00	B39321B3761Z810
	315.15	315 ~ 315.3	1.9	495-2357-1-ND	1.77	1.60	1.33	495-2357-2-ND	3,000	885.00/M	B39321B3763Z810
	315.5	315.35 ~ 315.65	1.9	495-2358-1-ND	1.77	1.60	1.33	495-2358-2-ND	3,000	885.00/M	B39321B3765Z810
	345	344.6 ~ 345.4	2.5	495-2352-1-ND	1.77	1.60	1.33	495-2352-2-ND	3,000	885.00/M	B39351B3583Z810
	433.92	433 ~ 434.71	2.8	495-2334-1-ND	1.77	1.60	1.33	495-2334-2-ND	3,000	885.00/M	B39431B3580Z810
	433.92	433.76 ~ 434.08	1.9	495-1672-1-ND	1.95	1.76	1.47	495-1672-2-ND	1,000	885.00	B39431B3760Z810
	868.3	868 ~ 868.6	3.1	495-1673-1-ND	1.95	1.76	1.47	495-1673-2-ND	1,000	885.00	B39871B3762Z810
	914.7	913.9 ~ 915.5	4.0	495-2340-1-ND	1.77	1.60	1.33	495-2340-2-ND	3,000	885.00/M	B39921B3705Z810
5	942.5	925 ~ 960	1.4	495-1875-1-ND ***NEW!***	1.56	1.41	1.17	495-1875-2-ND ***NEW!***	9,000	780.00/M	B39941B7837K410
	1575	1574.42 ~ 1576.42	.5	495-1880-1-ND ***NEW!***	2.19	1.98	1.65	495-1880-2-ND ***NEW!***	9,000	1022.00/M	B39162B9000C710
	2140	2110.0 ~ 2170	2.6	495-1873-1-ND ***NEW!***	1.83	1.65	1.38	495-1873-2-ND ***NEW!***	9,000	854.00/M	B39212B7835C710

SAW Resonators - Surface Mount

Applications:

- In remote control applications, SAW resonators provide stable frequencies for the RF carrier signal to transmit data over a range of 10-300m or for the local oscillators of super-het receivers.

Tighter tolerances are available upon request

Fig. 1

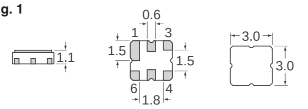

Fig. 2

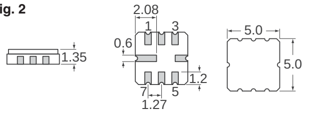

Fig. 3

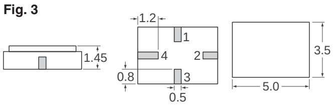

Fig.	No. of Ports	Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Epcos Part No.
				1	10	100		Size	Pricing	
1	1	433.92	495-2380-1-ND	.99	.90	.75	495-2380-2-ND	3,000	495.00/M	B39431R900U410
		433.92	495-2392-1-ND ***NEW!***	1.05	.95	.79	495-2392-2-ND ***NEW!***	9,000	525.00/M	B39431R960H110
		433.92	495-2381-1-ND	1.05	.95	.79	495-2381-2-ND	3,000	525.00/M	B39431R980U410
2	1	314.875; 315.125	495-2368-1-ND*	1.77	1.60	1.33	495-2368-2-ND*	3,000	885.00/M	B39311R771U310
		433.81; 434.06	495-2377-1-ND*	1.77	1.60	1.33	495-2377-2-ND*	3,000	885.00/M	B39431R770U310
	2	303.825	495-2342-1-ND	1.77	1.60	1.33	495-2342-2-ND	3,000	885.00/M	B39301R2707U310
		311.063	495-2344-1-ND	1.77	1.60	1.33	495-2344-2-ND	3,000	885.00/M	B39311R2710U310
		315	495-2346-1-ND	1.77	1.60	1.33	495-2346-2-ND	3,000	885.00/M	B39321R2704U310
		418.05	495-2375-1-ND	2.10	1.89	1.58	495-2375-2-ND	3,000	1050.00/M	B39421R2702U310
		433.92	495-2349-1-ND	1.77	1.60	1.33	495-2349-2-ND	3,000	885.00/M	B39431R2701U310
		804.5	495-2384-1-ND	1.77	1.60	1.33	495-2384-2-ND	3,000	885.00/M	B39801R2712U310
		868.35	495-2385-1-ND	1.95	1.76	1.47	495-2385-2-ND	3,000	975.00/M	B39871R2711U310
		915	495-1675-1-ND	2.10	1.89	1.58	495-1675-2-ND	1,000	885.00	B39921R2706U310
3	1	303.825	495-2365-1-ND	.99	.90	.75	495-2365-2-ND	3,000	495.00/M	B39301R807H210
		304.3	495-2343-1-ND	1.17	1.06	.88	495-2343-2-ND	3,000	585.00/M	B39301R852H210
		314.5	495-2367-1-ND	.90	.81	.68	495-2367-2-ND	3,000	450.00/M	B39311R854H210
		315	495-1669-1-ND	1.80	1.62	1.35	495-1669-2-ND	1,000	495.00	B39321R801H210
		315	495-2372-1-ND	1.80	1.62	1.35	495-2372-2-ND	3,000	495.00/M	B39321R821H210
		315.02	495-2345-1-ND	1.17	1.06	.88	495-2345-2-ND	3,000	585.00/M	B39321R851H210
		315.15	495-2370-1-ND	.90	.81	.68	495-2370-2-ND	3,000	450.00/M	B39321R883H210
		318	495-1670-1-ND	1.80	1.62	1.35	495-1670-2-ND	1,000	495.00	B39321R805H210
		345	495-1946-1-ND	.99	.90	.75	495-1946-2-ND	3,000	495.00/M	B39351R802H210
		390	495-1671-1-ND	1.05	.95	.79	495-1671-2-ND	1,000	450.00	B39391R882H210
		433.42	495-2348-1-ND	.99	.90	.75	495-2348-2-ND	3,000	495.00/M	B39431R806H210
		433.92	495-2378-1-ND	.99	.90	.75	495-2378-2-ND	3,000	495.00/M	B39431R820H210
		433.92	495-2350-1-ND	.90	.81	.68	495-2350-2-ND	3,000	450.00/M	B39431R880H210
		433.94	495-2379-1-ND	1.17	1.06	.88	495-2379-2-ND	3,000	585.00/M	B39431R850H210
		868.35	495-2351-1-ND	1.17	1.06	.88	495-2351-2-ND	3,000	585.00/M	B39871R804H210

*2 resonators in 1 housing

sumida Surface Mount Power Inductors

Series CR43

Standard SMD small size power inductors. Non-shielded.

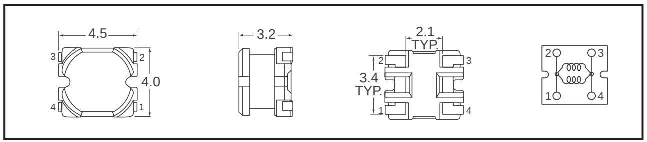

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 1,500	Sumida Part No.
				1	10	100		
1.0µH	.0487	2.56	308-1116-1-ND	1.24	1.13	.84	455.00/M	CR43-1R0MC
1.8µH	.0637	1.95	308-1118-1-ND	1.24	1.13	.84	455.00/M	CR43-1R8MC
2.2µH	.0712	1.75	308-1119-1-ND	1.24	1.13	.84	455.00/M	CR43-2R2MC
3.3µH	.0862	1.44	308-1121-1-ND	1.24	1.13	.84	455.00/M	CR43-3R3MC
3.9µH	.0937	1.33	308-1122-1-ND	1.24	1.13	.84	455.00/M	CR43-3R9MC
4.7µH	.1087	1.15	308-1123-1-ND	1.24	1.13	.84	455.00/M	CR43-4R7MC
6.8µH	.1312	0.95	308-1125-1-ND	1.24	1.13	.84	455.00/M	CR43-6R8MC
8.2µH	.1462	0.84	308-1126-1-ND	1.24	1.13	.84	455.00/M	CR43-8R2MC
NEW! RoHS Compliant NEW!								
1.0µH	.0487	2.56	308-1521-1-ND	1.24	1.13	.84	455.00/M	CR43NP-1R0MC
1.4µH	.0562	2.52	308-1522-1-ND	1.24	1.13	.84	455.00/M	CR43NP-1R4MC
1.8µH	.0637	1.95	308-1523-1-ND	1.24	1.13	.84	455.00/M	CR43NP-1R8MC
2.2µH	.0712	1.75	308-1524-1-ND	1.24	1.13	.84	455.00/M	CR43NP-2R2MC
3.3µH	.0862	1.44	308-1525-1-ND	1.24	1.13	.84	455.00/M	CR43NP-3R3MC
3.9µH	.0937	1.33	308-1526-1-ND	1.24	1.13	.84	455.00/M	CR43NP-3R9MC
4.7µH	.1087	1.15	308-1527-1-ND	1.24	1.13	.84	455.00/M	CR43NP-4R7MC
6.8µH	.1312	0.95	308-1528-1-ND	1.24	1.13	.84	455.00/M	CR43NP-6R8MC
8.2µH	.1462	0.84	308-1529-1-ND	1.24	1.13	.84	455.00/M	CR43NP-8R2MC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDPH4D19F

RoHS COMPLIANT

Double-stacked flatwire windings allow for supercompact size and current handling efficiency. EMI shielding to minimize crosstalk interference.

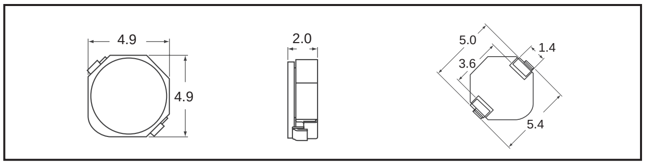

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Saturation Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 1,000	Sumida Part No.
				1	10	100		
3.3µH	.026	1.50	308-1315-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-3R3MC
4.7µH	.030	1.15	308-1317-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-4R7MC
6.8µH	.040	1.00	308-1318-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-6R8MC
8.0µH	.045	0.90	308-1319-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-8R0MC
10µH	.052	0.80	308-1311-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-100MC
15µH	.075	0.66	308-1312-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-150MC
22µH	.108	0.54	308-1313-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-220MC
33µH	.160	0.43	308-1314-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-330MC
47µH	.234	0.36	308-1316-1-ND	1.49	1.36	1.01	756.00	CDPH4D19FNP-470MC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CR54

Standard SMD small size power inductors. Non-shielded.

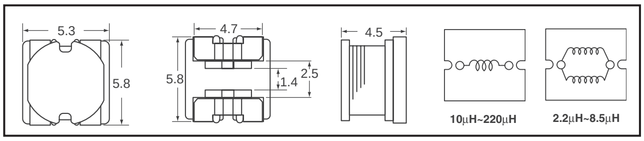

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 1,500	Sumida Part No.
				1	10	50		
2.2µH	23.4	3.84	308-1295-1-ND	1.17	1.07	.96	594.00/M	CR54-2R2MC
2.7µH	26.0	3.44	308-1296-1-ND	1.17	1.07	.96	594.00/M	CR54-2R7MC
3.3µH	28.6	3.20	308-1299-1-ND	1.17	1.07	.96	594.00/M	CR54-3R3MC
3.9µH	35.1	3.00	308-1300-1-ND	1.17	1.07	.96	594.00/M	CR54-3R9MC
4.4µH	39.0	2.80	308-1302-1-ND	1.17	1.07	.96	594.00/M	CR54-4R4MC
5.0µH	44.2	2.60	308-1304-1-ND	1.17	1.07	.96	594.00/M	CR54-5R0MC
5.6µH	49.4	2.48	308-1305-1-ND	1.17	1.07	.96	594.00/M	CR54-5R6MC
6.4µH	52.0	2.20	308-1307-1-ND	1.17	1.07	.96	594.00/M	CR54-6R4MC
7.6µH	62.4	2.08	308-1308-1-ND	1.17	1.07	.96	594.00/M	CR54-7R6MC
8.5µH	67.6	1.84	308-1310-1-ND	1.17	1.07	.96	594.00/M	CR54-8R5MC
10µH	0.10	1.44	308-1284-1-ND	1.17	1.07	.96	—	CR54-100MC
12µH	0.12	1.40	308-1286-1-ND	1.17	1.07	.96	594.00/M	CR54-120MC
15µH	0.14	1.30	308-1288-1-ND	1.17	1.07	.96	594.00/M	CR54-150MC
18µH	0.15	1.23	308-1290-1-ND	1.17	1.07	.96	—	CR54-180MC
22µH	0.18	1.11	308-1292-1-ND	1.17	1.07	.96	—	CR54-220MC
27µH	0.20	0.97	308-1294-1-ND	1.17	1.07	.96	—	CR54-270MC
33µH	0.23	0.88	308-1297-1-ND	1.17	1.07	.96	594.00/M	CR54-330LC
39µH	0.32	0.80	308-1298-1-ND	1.17	1.07	.96	594.00/M	CR54-390LC
56µH	0.42	0.68	308-1303-1-ND	1.17	1.07	.96	594.00/M	CR54-560KC
68µH	0.46	0.61	308-1306-1-ND	1.17	1.07	.96	594.00/M	CR54-680KC
82µH	0.60	0.58	308-1309-1-ND	1.17	1.07	.96	—	CR54-820KC
100µH	0.70	0.52	308-1285-1-ND	1.17	1.07	.96	—	CR54-101KC
120µH	0.93	0.48	308-1287-1-ND	1.17	1.07	.96	594.00/M	CR54-121KC
180µH	1.38	0.38	308-1291-1-ND	1.17	1.07	.96	—	CR54-181KC
220µH	1.57	0.35	308-1293-1-ND	1.17	1.07	.96	—	CR54-221KC
NEW! RoHS Compliant NEW!								
10µH	0.10	1.44	308-1530-1-ND	1.17	1.07	.96	594.00/M	CR54NP-100MC
15µH	0.14	1.30	308-1531-1-ND	1.17	1.07	.96	594.00/M	CR54NP-150MC
18µH	0.15	1.23	308-1532-1-ND	1.17	1.07	.96	594.00/M	CR54NP-180MC
22µH	0.18	1.11	308-1533-1-ND	1.17	1.07	.96	594.00/M	CR54NP-220MC
33µH	0.23	0.88	308-1535-1-ND	1.17	1.07	.96	594.00/M	CR54NP-330LC
68µH	0.46	0.61	308-1536-1-ND	1.17	1.07	.96	594.00/M	CR54NP-680KC
220µH	1.57	0.35	308-1534-1-ND	1.17	1.07	.96	594.00/M	CR54NP-221KC

*For Tape and Reel part number, change 1-ND to 2-ND.

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH5D18

Low Profile SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

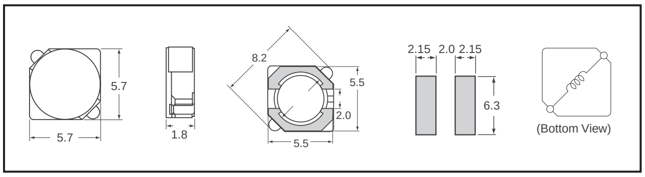

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 2,000	Sumida Part No.
				1	10	100		
4.1µH	.042	1.95	308-1345-1-ND	.92	.84	.63	486.00/M	CDRH5D18-4R1NC
10µH	.092	1.20	308-1346-1-ND	.92	.84	.63	486.00/M	CDRH5D18-100NC
22µH	.215	0.80	308-1344-1-ND	.92	.84	.63	468.00/M	CDRH5D18-220NC
NEW! RoHS Compliant NEW!								
4.1µH	.042	1.95	308-1481-1-ND	.92	.84	.63	486.00/M	CDRH5D18NP-4R1NC
5.4µH	.056	1.60	308-1482-1-ND	.92	.84	.63	468.00/M	CDRH5D18NP-5R4NC
10µH	.092	1.20	308-1479-1-ND	.92	.84	.63	486.00/M	CDRH5D18NP-100NC
22µH	.215	0.80	308-1480-1-ND	.92	.84	.63	468.00/M	CDRH5D18NP-220NC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDH53

SMD power inductors with electrodes directly attached to ferrite core. Unshielded.

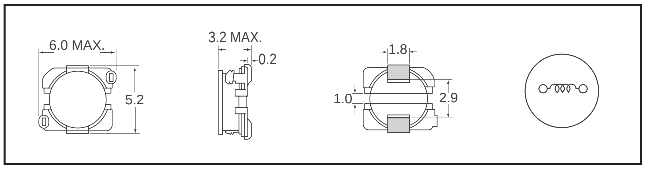

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each			T & R* Pricing 1,500	Sumida Part No.
				1	10	100		
10µH	0.16	1.23	308-1201-1-ND	1.03	.94	.70	522.00/M	CDH53-100LC
100µH	1.57	0.37	308-1213-1-ND	1.03	.94	.70	522.00/M	CDH53-101JC
NEW! RoHS Compliant NEW!								
10µH	0.16	1.23	308-1421-1-ND	1.03	.94	.70	522.00/M	CDH53NP-100LC
100µH	1.57	0.37	308-1422-1-ND	1.03	.94	.70	522.00/M	CDH53NP-101JC

*For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Series CDRH62B

SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

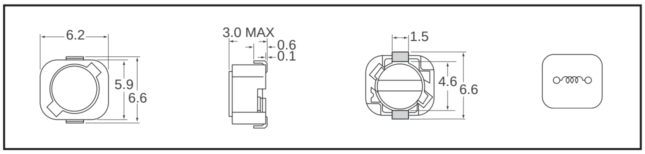

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 2,000	Sumida Part No.
2.9µH	0.068	1.94	308-1148-1-ND	.96	.88	.65	486.00/M	CDRH62B-2R9NC
10µH	0.15	1.10	308-1154-1-ND	1.28	1.17	.87	648.00/M	CDRH62B-100MC
22µH	0.34	0.74	308-1158-1-ND	.92	.84	.63	468.00/M	CDRH62B-220MC
27µH	0.38	0.66	308-1159-1-ND	.96	.88	.65	486.00/M	CDRH62B-270MC
47µH	0.69	0.50	308-1162-1-ND	1.28	1.17	.87	648.00/M	CDRH62B-470MC
68µH	1.07	0.42	308-1164-1-ND	.96	.88	.65	—	CDRH62B-680MC
NEW! RoHS Compliant NEW!								
2.9µH	0.068	1.94	308-1485-1-ND	.96	.88	.65	486.00/M	CDRH62BNP-2R9NC
10µH	0.15	1.10	308-1483-1-ND	1.28	1.17	.87	648.00/M	CDRH62BNP-100MC
22µH	0.34	0.74	308-1484-1-ND	.92	.84	.63	468.00/M	CDRH62BNP-220MC
47µH	0.69	0.50	308-1486-1-ND	1.28	1.17	.87	648.00/M	CDRH62BNP-470MC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH6D28

Low profile SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

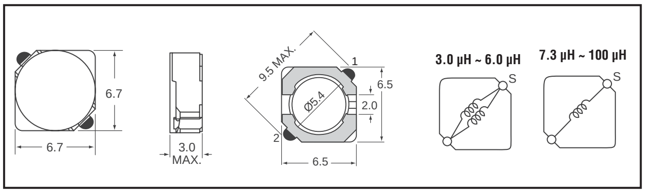

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,500	Sumida Part No.
3.0µH	0.024	3.00	308-1218-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-3R0NC
3.9µH	0.027	2.60	308-1219-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-3R9NC
5.0µH	0.031	2.40	308-1220-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-5R0NC
6.0µH	0.035	2.25	308-1221-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-6R0NC
7.3µH	0.054	2.10	308-1222-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-7R3NC
8.6µH	0.058	1.85	308-1223-1-ND	1.10	1.00	.75	—	CDRH6D28-8R6NC
10µH	0.065	1.70	308-1224-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-100NC
12µH	0.070	1.55	308-1225-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-120NC
15µH	0.084	1.40	308-1226-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-150NC
18µH	0.095	1.32	308-1227-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-180NC
22µH	0.128	1.20	308-1228-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-220NC
27µH	0.142	1.05	308-1229-1-ND	1.10	1.00	.75	—	CDRH6D28-270NC
33µH	0.165	0.97	308-1230-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-330NC
39µH	0.210	0.86	308-1231-1-ND	1.10	1.00	.75	—	CDRH6D28-390NC
47µH	0.238	0.80	308-1232-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-470NC
82µH	0.390	0.60	308-1235-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28-820NC
100µH	0.535	0.54	308-1236-1-ND	1.10	1.00	.75	—	CDRH6D28-101NC
NEW! RoHS Compliant NEW!								
3.0µH	0.024	3.00	308-1495-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-3R0NC
3.9µH	0.027	2.60	308-1496-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-3R9NC
5.0µH	0.031	2.40	308-1498-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-5R0NC
6.0µH	0.035	2.25	308-1499-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-6R0NC
7.3µH	0.054	2.10	308-1500-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-7R3NC
10µH	0.065	1.70	308-1487-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-100NC
12µH	0.070	1.55	308-1489-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-120NC
15µH	0.084	1.40	308-1490-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-150NC
18µH	0.095	1.32	308-1491-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-180NC
22µH	0.128	1.20	308-1492-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-220NC
27µH	0.142	1.05	308-1493-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-270NC
33µH	0.165	0.97	308-1494-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-330NC
47µH	0.238	0.80	308-1497-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-470NC
82µH	0.390	0.60	308-1501-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-820NC
100µH	0.535	0.54	308-1488-1-ND	1.10	1.00	.75	558.00/M	CDRH6D28NP-101NC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CR75

Standard SMD small size power inductors. Non-shielded.

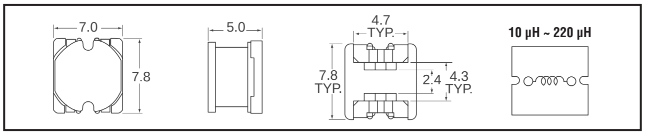

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Sumida Part No.
33µH	0.13	1.2	308-1243-1-ND	1.46	1.33	.99	738.00	CR75-330KC
47µH	0.18	1.1	308-1245-1-ND	1.46	1.33	.99	738.00	CR75-470KC
56µH	0.24	0.94	308-1246-1-ND	1.46	1.33	.99	—	CR75-560KC
NEW! RoHS Compliant NEW!								
10µH	0.07	2.3	308-1537-1-ND	1.46	1.33	.99	738.00	CR75NP-100KC
33µH	0.13	1.2	308-1539-1-ND	1.46	1.33	.99	738.00	CR75NP-330KC
47µH	0.18	1.1	308-1540-1-ND	1.46	1.33	.99	738.00	CR75NP-470KC
220µH	0.96	0.49	308-1538-1-ND	1.46	1.33	.99	738.00	CR75NP-221KC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDR7D28MN

DC supercomposition characteristic is extended by using a hybrid Ni-Zn/Mn-Zi core. EMI shielding to minimize crosstalk interference.

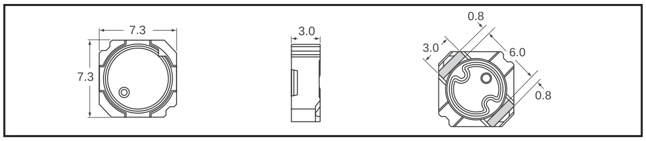

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Saturation Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Sumida Part No.
1.2µH	.0164	6.8	308-1322-1-ND	2.04	1.86	1.38	1035.00	CDR7D28MNNP-1R2NC
2.0µH	.019	4.3	308-1324-1-ND	2.04	1.86	1.38	1035.00	CDR7D28MNNP-2R0NC
3.6µH	.026	3.4	308-1326-1-ND	2.04	1.86	1.38	1035.00	CDR7D28MNNP-3R6NC
4.6µH	.030	3.15	308-1327-1-ND	2.04	1.86	1.38	1035.00	CDR7D28MNNP-4R6NC
6.8µH	.037	2.75	308-1328-1-ND	2.04	1.86	1.38	1035.00	CDR7D28MNNP-6R8NC
8.0µH	.040	2.5	308-1329-1-ND	2.04	1.86	1.38	1035.00	CDR7D28MNNP-8R0NC
10µH	.048	2.3	308-1320-1-ND	2.04	1.86	1.38	1035.00	CDR7D28MNNP-100NC
15µH	.065	2.0	308-1321-1-ND	2.04	1.86	1.38	1035.00	CDR7D28MNNP-150NC
22µH	.096	1.6	308-1323-1-ND	2.04	1.86	1.38	1035.00	CDR7D28MNNP-220NC
33µH	.157	1.3	308-1325-1-ND	2.04	1.86	1.38	1035.00	CDR7D28MNNP-330NC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH74

SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

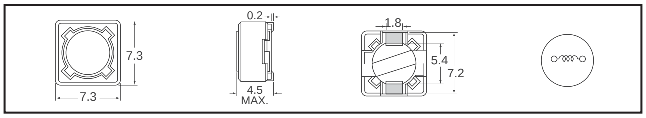

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Sumida Part No.
10µH	0.049	1.84	308-1173-1-ND	1.49	1.36	1.01	756.00	CDRH74-100MC
18µH	0.091	1.31	308-1176-1-ND	1.49	1.36	1.01	—	CDRH74-180MC
22µH	0.11	1.23	308-1177-1-ND	1.49	1.36	1.01	756.00	CDRH74-220MC
47µH	0.26	0.88	308-1181-1-ND	1.49	1.36	1.01	756.00	CDRH74-470MC
56µH	0.35	0.75	308-1182-1-ND	1.49	1.36	1.01	756.00	CDRH74-560MC
82µH	0.43	0.61	308-1184-1-ND	1.49	1.36	1.01	—	CDRH74-820MC
100µH	0.61	0.60	308-1185-1-ND	1.49	1.36	1.01	756.00	CDRH74-101MC
120µH	0.66	0.52	308-1186-1-ND	1.49	1.36	1.01	—	CDRH74-121MC
150µH	0.88	0.46	308-1187-1-ND	1.49	1.36	1.01	—	CDRH74-151MC
180µH	0.98	0.42	308-1188-1-ND	1.49	1.36	1.01	—	CDRH74-181MC
220µH	1.17	0.36	308-1189-1-ND	1.49	1.36	1.01	756.00	CDRH74-221MC
330µH	1.86	0.32	308-1191-1-ND	1.49	1.36	1.01	—	CDRH74-331MC
390µH	2.85	0.29	308-1192-1-ND	1.49	1.36	1.01	720.00	CDRH74-391MC
470µH	3.01	0.26	308-1193-1-ND	1.49	1.36	1.01	756.00	CDRH74-471MC
560µH	3.62	0.23	308-1194-1-ND	1.49	1.36	1.01	—	CDRH74-561MC
1.0mH	6.00	0.18	308-1197-1-ND	1.49	1.36	1.01	—	CDRH74-102MC

*For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Series CDRH74 *(Cont.)*

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Sumida Part No.
NEW! RoHS Compliant NEW!								
10µH	0.049	1.84	308-1502-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-100MC
15µH	0.081	1.47	308-1505-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-150MC
18µH	0.091	1.31	308-1507-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-180MC
22µH	0.11	1.23	308-1509-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-220MC
47µH	0.26	0.88	308-1512-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-470MC
56µH	0.35	0.75	308-1514-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-560MC
68µH	0.38	0.69	308-1516-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-680MC
100µH	0.61	0.60	308-1503-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-101MC
150µH	0.88	0.46	308-1506-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-151MC
180µH	0.98	0.42	308-1508-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-181MC
220µH	1.17	0.36	308-1510-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-221MC
330µH	1.86	0.32	308-1511-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-331MC
470µH	3.01	0.26	308-1513-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-471MC
560µH	3.62	0.23	308-1515-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-561MC
1.0mH	6.00	0.18	308-1504-1-ND	1.49	1.36	1.01	756.00	CDRH74NP-102MC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDR105

Standard SMD power inductor. EMI shielding to minimize crosstalk interference.

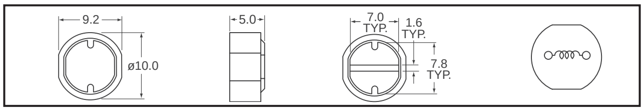

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Size	Pricing	Sumida Part No.
27µH	0.11	1.54	308-1132-1-ND	1.56	1.42	1.06	500	396.00	CDR105-270MC
100µH	0.35	0.80	308-1139-1-ND	1.56	1.42	1.06	—	—	CDR105-101MC
NEW! RoHS Compliant NEW!									
10µH	0.06	2.53	308-1423-1-ND	1.56	1.42	1.06	500	396.00	CDR105NP-100MC
22µH	0.09	1.71	308-1425-1-ND	1.56	1.42	1.06	500	396.00	CDR105NP-220MC
100µH	0.35	0.80	308-1424-1-ND	1.56	1.42	1.06	500	396.00	CDR105NP-101MC
CD105 Series									
100µH	0.35	0.97	308-1342-1-ND	2.87	2.62	1.95	500	728.50	CD105-101KC
NEW! CD105 Series, RoHS Compliant NEW!									
100µH	0.35	0.97	308-1415-1-ND	2.88	2.62	1.95	500	729.00	CD105NP-101KC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH104R

R-series SMD power inductors with low AC and DC resistance characteristics. EMI shielding to minimize crosstalk interference.

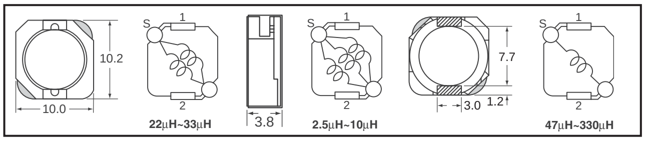

Inductance @100kHz 1V	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	T & R* Pricing 1,000	Sumida Part No.
2.5µH	10.5m	7.50	308-1276-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-2R5NC
3.8µH	13.0m	6.00	308-1279-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-3R8NC
5.2µH	22m	5.50	308-1281-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-5R2NC
10µH	35m	4.40	308-1269-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-100NC
22µH	73m	2.90	308-1274-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-220NC
33µH	93m	2.30	308-1277-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-330NC
47µH	128m	2.10	308-1280-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-470NC
100µH	304m	1.35	308-1270-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-101NC
150µH	506m	1.15	308-1272-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-151NC
330µH	1.09	0.70	308-1278-1-ND	2.45	2.23	2.01	1242.00	CDRH104R-331NC
NEW! RoHS Compliant NEW!								
2.5µH	10.5m	7.50	308-1432-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-2R5NC
3.8µH	13.0m	6.00	308-1434-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-3R8NC
10µH	35m	4.40	308-1429-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-100NC
22µH	73m	2.90	308-1431-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-220NC
33µH	93m	2.30	308-1433-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-330NC
47µH	128m	2.10	308-1435-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-470NC
100µH	304m	1.35	308-1430-1-ND	2.45	2.23	2.01	1242.00	CDRH104RNP-101NC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH127/LD

Low DCR direct drop-in version of Sumida's most popular series, CDRH127. Shielded.

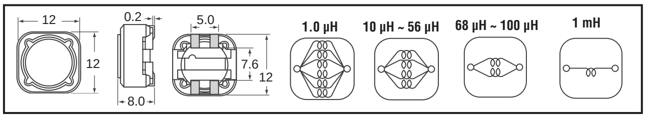

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 500	Sumida Part No.
1.0µH	.005	14.0	308-1334-1-ND	2.03	1.85	1.38	515.50	CDRH127/LDNP-1R0NC
10µH	.015	6.70	308-1330-1-ND	2.03	1.85	1.38	515.50	CDRH127/LDNP-100MC
15µH	.0203	5.65	308-1333-1-ND	2.03	1.85	1.38	515.50	CDRH127/LDNP-150MC
22µH	.028	4.70	308-1335-1-ND	2.03	1.85	1.38	684.00	CDRH127/LDNP-220MC
27µH	.032	4.20	308-1336-1-ND	2.03	1.85	1.38	515.50	CDRH127/LDNP-270MC
33µH	.041	3.90	308-1337-1-ND	2.03	1.85	1.38	515.50	CDRH127/LDNP-330MC
39µH	.0465	3.50	308-1338-1-ND	2.03	1.85	1.38	515.50	CDRH127/LDNP-390MC
47µH	.06	3.25	308-1339-1-ND	2.03	1.85	1.38	515.50	CDRH127/LDNP-470MC
56µH	.069	2.90	308-1340-1-ND	2.03	1.85	1.38	515.50	CDRH127/LDNP-560MC
68µH	.092	2.60	308-1341-1-ND	2.03	1.85	1.38	515.50	CDRH127/LDNP-680MC
100µH	.119	2.10	308-1331-1-ND	2.03	1.85	1.38	515.50	CDRH127/LDNP-101MC
1.0mH	.00115	0.70	308-1332-1-ND	2.03	1.85	1.38	515.50	CDRH127/LDNP-102MC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDRH125

SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

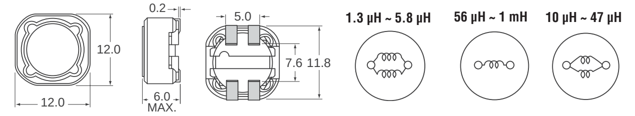

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 500	Sumida Part No.
1.3µH	0.012	8.00	308-1040-1-ND	2.13	1.94	1.44	540.00	CDRH125-1R3NC
5.8µH	0.021	4.40	308-1044-1-ND	2.13	1.94	1.44	540.00	CDRH125-5R8NC
10µH	0.025	4.00	308-1046-1-ND	2.13	1.94	1.44	540.00	CDRH125-100MC
22µH	0.036	2.80	308-1050-1-ND	2.13	1.94	1.44	540.00	CDRH125-220MC
33µH	0.057	2.10	308-1052-1-ND	2.13	1.94	1.44	540.00	CDRH125-330MC
39µH	0.068	2.00	308-1053-1-ND	2.13	1.94	1.44	540.00	CDRH125-390MC
47µH	0.075	1.80	308-1054-1-ND	2.13	1.94	1.44	540.00	CDRH125-470MC
56µH	0.11	1.70	308-1055-1-ND	2.13	1.94	1.44	540.00	CDRH125-560MC
68µH	0.12	1.50	308-1056-1-ND	2.13	1.94	1.44	540.00	CDRH125-680MC
82µH	0.14	1.40	308-1057-1-ND	2.13	1.94	1.44	540.00	CDRH125-820MC
100µH	0.16	1.30	308-1058-1-ND	2.13	1.94	1.44	540.00	CDRH125-101MC
120µH	0.17	1.10	308-1059-1-ND	2.13	1.94	1.44	540.00	CDRH125-121MC
150µH	0.23	1.00	308-1060-1-ND	2.13	1.94	1.44	540.00	CDRH125-151MC
180µH	0.29	0.90	308-1061-1-ND	2.13	1.94	1.44	540.00	CDRH125-181MC
220µH	0.40	0.80	308-1062-1-ND	2.13	1.94	1.44	540.00	CDRH125-221MC
330µH	0.51	0.68	308-1064-1-ND	2.13	1.94	1.44	—	CDRH125-331MC
560µH	0.86	0.54	308-1067-1-ND	2.13	1.94	1.44	—	CDRH125-561MC
820µH	1.34	0.43	308-1069-1-ND	2.13	1.94	1.44	—	CDRH125-821MC
1.0mH	1.53	0.40	308-1070-1-ND	2.13	1.94	1.44	540.00	CDRH125-102MC
NEW! RoHS Compliant NEW!								
1.3µH	0.012	8.00	308-1444-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-1R3NC
2.1µH	0.014	7.00	308-1447-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-2R1NC
5.8µH	0.021	4.40	308-1453-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-5R8NC
10µH	0.025	4.00	308-1436-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-100MC
15µH	0.030	3.30	308-1440-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-150MC
18µH	0.034	3.00	308-1442-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-180MC
22µH	0.036	2.80	308-1445-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-220MC
33µH	0.057	2.10	308-1448-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-330MC
39µH	0.068	2.00	308-1450-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-390MC
47µH	0.075	1.80	308-1451-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-470MC
56µH	0.11	1.70	308-1452-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-560MC
68µH	0.12	1.50	308-1454-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-680MC
82µH	0.14	1.40	308-1455-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-820MC
100µH	0.16	1.30	308-1437-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-101MC
120µH	0.17	1.10	308-1439-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-121MC
150µH	0.23	1.00	308-1441-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-151MC
180µH	0.29	0.90	308-1443-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-181MC
220µH	0.40	0.80	308-1446-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-221MC
330µH	0.51	0.68	308-1449-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-331MC
820µH	1.34	0.43	308-1456-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-821MC
1.0mH	1.53	0.40	308-1438-1-ND	2.13	1.94	1.44	540.00	CDRH125NP-102MC

*For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

Series CDRH127

SMD power inductors with electrodes directly attached to ferrite core. EMI shielding to minimize crosstalk interference.

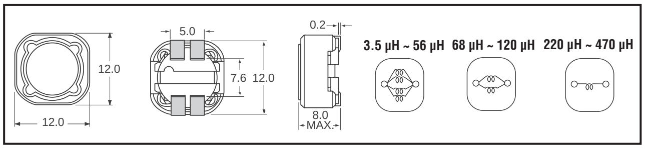

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 500	Sumida Part No.
3.5µH	.0135	7.50	308-1073-1-ND	3.05	2.78	2.07	774.00	CDRH127-3R5NC
4.7µH	.0158	6.80	308-1074-1-ND	3.05	2.78	2.07	774.00	CDRH127-4R7NC
6.1µH	.0176	6.60	308-1075-1-ND	3.05	2.78	2.07	774.00	CDRH127-6R1NC
7.6µH	.0200	5.90	308-1076-1-ND	3.05	2.78	2.07	774.00	CDRH127-7R6NC
10µH	.0216	5.40	308-1077-1-ND	3.05	2.78	2.07	774.00	CDRH127-100MC
12µH	.0243	4.90	308-1078-1-ND	3.05	2.78	2.07	774.00	CDRH127-120MC
15µH	.0270	4.50	308-1079-1-ND	3.05	2.78	2.07	774.00	CDRH127-150MC
18µH	.0392	3.90	308-1080-1-ND	3.05	2.78	2.07	774.00	CDRH127-180MC
22µH	.0432	3.60	308-1081-1-ND	3.05	2.78	2.07	774.00	CDRH127-220MC
33µH	.0648	3.00	308-1083-1-ND	3.05	2.78	2.07	774.00	CDRH127-330MC
39µH	.0729	2.75	308-1084-1-ND	3.05	2.78	2.07	774.00	CDRH127-390MC
47µH	0.10	2.50	308-1085-1-ND	3.05	2.78	2.07	774.00	CDRH127-470MC
56µH	0.11	2.35	308-1086-1-ND	3.05	2.78	2.07	774.00	CDRH127-560MC
68µH	0.14	2.10	308-1087-1-ND	3.05	2.78	2.07	774.00	CDRH127-680MC
82µH	0.16	1.95	308-1088-1-ND	3.05	2.78	2.07	774.00	CDRH127-820MC
100µH	0.22	1.70	308-1089-1-ND	3.05	2.78	2.07	774.00	CDRH127-101MC
120µH	0.25	1.60	308-1090-1-ND	3.05	2.78	2.07	774.00	CDRH127-121MC
220µH	0.39	1.16	308-1093-1-ND	3.05	2.78	2.07	774.00	CDRH127-221MC
330µH	0.64	0.95	308-1095-1-ND	3.05	2.78	2.07	774.00	CDRH127-331MC
470µH	0.98	0.79	308-1097-1-ND	3.05	2.78	2.07	774.00	CDRH127-471MC
NEW! RoHS Compliant NEW!								
3.5µH	.0135	7.50	308-1470-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-3R5NC
4.7µH	.0158	6.80	308-1473-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-4R7NC
6.1µH	.0176	6.60	308-1476-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-6R1NC
7.6µH	.0200	5.90	308-1477-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-7R6NC
10µH	.0216	5.40	308-1457-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-100MC
12µH	.0243	4.90	308-1459-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-120MC
15µH	.0270	4.50	308-1461-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-150MC
18µH	.0392	3.90	308-1463-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-180MC
22µH	.0432	3.60	308-1464-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-220MC
27µH	.0459	3.40	308-1466-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-270MC
33µH	.0648	3.00	308-1467-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-330MC
39µH	.0729	2.75	308-1469-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-390MC
47µH	0.10	2.50	308-1471-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-470MC
56µH	0.11	2.35	308-1474-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-560MC
68µH	0.14	2.10	308-1475-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-680MC
82µH	0.16	1.95	308-1478-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-820MC
100µH	0.22	1.70	308-1458-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-101MC
120µH	0.25	1.60	308-1460-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-121MC
150µH	0.28	1.42	308-1462-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-151MC
220µH	0.39	1.16	308-1465-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-221MC
330µH	0.64	0.95	308-1468-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-331MC
470µH	0.98	0.79	308-1472-1-ND	3.05	2.78	2.07	774.00	CDRH127NP-471MC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDR125

Standard SMD power inductor. EMI shielding to minimize crosstalk interference.

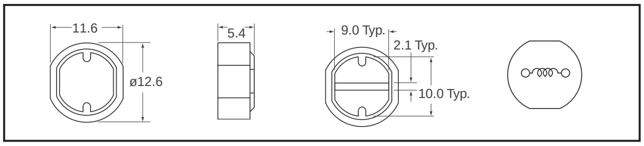

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 500	Sumida Part No.
22µH	0.07	2.20	308-1020-1-ND	2.59	2.36	1.76	657.00	CDR125-220MC
NEW! RoHS Compliant NEW!								
10µH	.05	2.65	308-1426-1-ND	2.59	2.36	1.76	657.00	CDR125NP-100MC
22µH	0.07	2.20	308-1428-1-ND	2.59	2.36	1.76	657.00	CDR125NP-220MC
100µH	0.25	1.05	308-1427-1-ND	2.59	2.36	1.76	657.00	CDR125NP-101MC

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CEP125

High current handling and low DCR achieved in a small package with flat wire technology. Non-shielded.

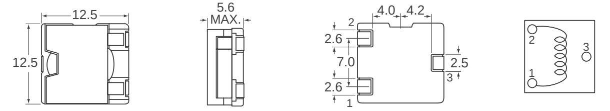

Inductance	D.C.R. (Ω) (Maximum at 20°C)	Saturation Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 500	Sumida Part No.
0.47µH	.0015	28.8	308-1112-1-ND	4.08	3.71	2.76	—	CEP125-0R4NC-HD
0.8µH	.0022	25.7	308-1115-1-ND	4.08	3.71	2.76	1035.00	CEP125-0R8NC-UD
1.0µH	.0022	20.0	308-1113-1-ND	4.08	3.71	2.76	1035.00	CEP125-1R0MC-HD
1.0µH	.0025	20.0	308-1268-1-ND	4.08	3.71	2.76	1035.00	CEP125-1R0MC-H
1.5µH	.0022	14.0	308-1111-1-ND	4.08	3.71	2.76	1035.00	CEP125-1R5MC-D
NEW! RoHS Compliant NEW!								
0.8µH	.0022	25.7	308-1517-1-ND	4.08	3.71	2.76	1035.00	CEP125NP-0R8NC-UD
1.0µH	.0022	20.0	308-1519-1-ND	4.08	3.71	2.76	1035.00	CEP125NP-1R0MC-HD
1.0µH	.0025	20.0	308-1518-1-ND	4.08	3.71	2.76	1035.00	CEP125NP-1R0MC-H
1.5µH	.0022	14.0	308-1520-1-ND	4.08	3.71	2.76	1035.00	CEP125NP-1R5MC-D

*For Tape and Reel part number, change 1-ND to 2-ND.

Series CDEP134

High current handling and low DCR achieved in a small package with flat wire technology. EMI shielding to minimize crosstalk interference.

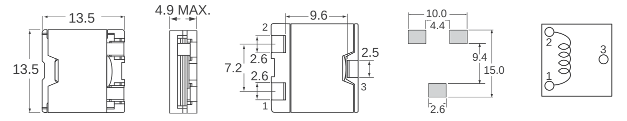

Inductance	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 500	Sumida Part No.
0.66µH	.0025	29.0	308-1003-1-ND	4.47	4.07	3.03	1134.00	CDEP134-0R6NC-H
1.2µH	.0037	21.0	308-1004-1-ND	4.47	4.07	3.03	1134.00	CDEP134-1R2MC-H
1.6µH	.0037	16.0	308-1005-1-ND	4.47	4.07	3.03	1134.00	CDEP134-1R6MC
3.6µH	.0120	12.5	308-1013-1-ND	4.47	4.07	3.03	1134.00	CDEP134-3R6MC-H
4.8µH	.0120	9.3	308-1008-1-ND	4.47	4.07	3.03	1134.00	CDEP134-4R8MC
NEW! RoHS Compliant NEW!								
0.66µH	.0025	29.0	308-1416-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-0R6NC-H
1.2µH	.0037	21.0	308-1417-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-1R2MC-H
1.6µH	.0037	16.0	308-1418-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-1R6MC
3.6µH	.0120	12.5	308-1419-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-3R6MC-H
4.8µH	.0120	9.3	308-1420-1-ND	4.47	4.07	3.03	1134.00	CDEP134NP-4R8MC

*For Tape and Reel part number, change 1-ND to 2-ND.

Common Mode Chokes

Series LF2020

RoHS COMPLIANT

Applications: Noise prevention for TV, VCR, AV, OA equipment

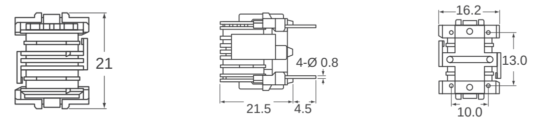

Inductance (min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
2.2mH	0.24	1.3	308-1347-ND	.67	.56	.43	LF2020NP-222
3.9mH	0.41	1.0	308-1348-ND	.67	.56	.43	LF2020NP-392
10mH	1.00	0.6	308-1349-ND	.67	.56	.43	LF2020NP-103
18mH	1.63	0.5	308-1350-ND	.67	.56	.43	LF2020NP-183
22mH	2.04	0.4	308-1351-ND	.67	.56	.43	LF2020NP-223
33mH	3.42	0.3	308-1352-ND	.67	.56	.43	LF2020NP-333

Series LF2115

A low profile type of the LF2020 Series. **Applications:** Noise prevention for TV, VCR, AV, OA equipment

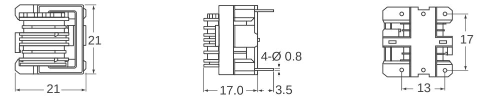

Inductance (min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
2.2mH	0.24	1.3	308-1353-ND	.74	.61	.48	LF2115NP-222
3.9mH	0.41	1.0	308-1354-ND	.74	.61	.48	LF2115NP-392
10mH	1.00	0.6	308-1355-ND	.74	.61	.48	LF2115NP-103
18mH	1.63	0.5	308-1356-ND	.74	.61	.48	LF2115NP-183
22mH	2.04	0.4	308-1357-ND	.74	.61	.48	LF2115NP-223
33mH	3.42	0.3	308-1358-ND	.74	.61	.48	LF2115NP-333

(Continued)

Series LF2420

Large inductance is possible with closed magnetic core.
Applications: Noise prevention for TV, VCR, AV, OA devices

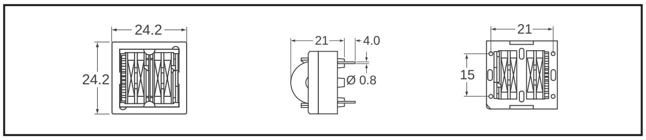

Inductance (min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
2.5mH	0.13	2.0	308-1359-ND	1.05	.87	.68	LF2420NP-252
3.5mH	0.18	1.7	308-1360-ND	1.05	.87	.68	LF2420NP-352
4.5mH	0.21	1.5	308-1361-ND	1.05	.87	.68	LF2420NP-452
10.0mH	0.47	1.0	308-1362-ND	1.05	.87	.68	LF2420NP-103
15.0mH	0. 73	0.8	308-1363-ND	1.05	.87	.68	LF2420NP-153
20.0mH	0.87	0.7	308-1364-ND	1.05	.87	.68	LF2420NP-203
35.0mH	1.58	0.6	308-1365-ND	1.05	.87	.68	LF2420NP-353

Series LF2823

Large inductance is possible with closed magnetic core.
Applications: Switching power supply, TV, PC, UPS

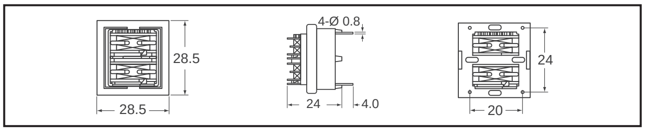

Inductance (min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
1.8mH	.072	2.6	308-1366-ND	1.54	1.28	.99	LF2823NP-182
6.8mH	0.23	1.6	308-1367-ND	1.54	1.28	.99	LF2823NP-682
12mH	0.38	1.2	308-1368-ND	1.54	1.28	.99	LF2823NP-123
22mH	0.65	1.0	308-1369-ND	1.54	1.28	.99	LF2823NP-223
39mH	1.43	0.7	308-1370-ND	1.54	1.28	.99	LF2823NP-393
68mH	1.82	0.6	308-1371-ND	1.54	1.28	.99	LF2823NP-683

Series PFC2225B

Safety standard conformance such as UL.
Applications: Noise prevention for TV, VCRs, OA devices.

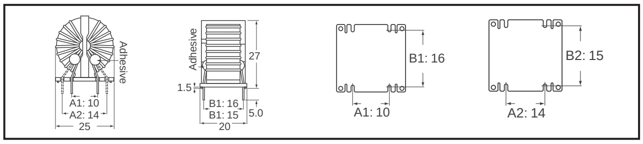

Inductance (min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
0.45mH	8.5	10.0	308-1404-ND	1.75	1.45	1.13	PFC2225BNP-451
0.8mH	12.5	8.0	308-1405-ND	1.75	1.45	1.13	PFC2225BNP-801
1.5mH	26	5.0	308-1406-ND	1.75	1.45	1.13	PFC2225BNP-152
4.0mH	54	4.0	308-1407-ND	1.75	1.45	1.13	PFC2225BNP-402
5.0mH	81	3.0	308-1408-ND	1.75	1.45	1.13	PFC2225BNP-502
7.0mH	135	2.5	308-1409-ND	1.75	1.45	1.13	PFC2225BNP-702

Series UU9LF

Small size common mode choke

Applications: Multi-function telephone, AC adapter, FAX, small size fluorescent light, VCR, TV

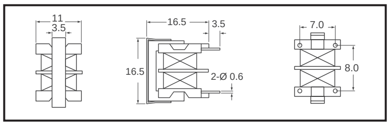

Inductance (min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
0.47mH	0.15	1000	308-1372-ND	.46	.38	.30	UU9LFNP-B471
0.68mH	0.25	850	308-1373-ND	.46	.38	.30	UU9LFNP-B681
1.0mH	0.35	700	308-1374-ND	.46	.38	.30	UU9LFNP-B102
2.2mH	0.7	500	308-1375-ND	.46	.38	.30	UU9LFNP-B222
3.9mH	1.2	380	308-1376-ND	.46	.38	.30	UU9LFNP-B392
4.7mH	1.6	340	308-1377-ND	1.23	1.02	.79	UU9LFNP-B472
6.8mH	2.5	250	308-1378-ND	.46	.38	.30	UU9LFNP-B682
10.0mH	4.0	200	308-1379-ND	.46	.38	.30	UU9LFNP-B103

Series UU9LFB

Impedence characteristics in high frequencies is improved by the split bobbin. **Applications:** Common mode noise filter for TV, VCR, switching power supply, NC machine, PC & PC related device, measurement equipment and control unit

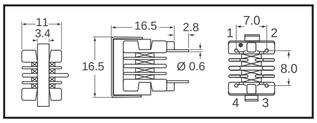

Inductance (min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
3.2mH	1.66	360	308-1380-ND	.46	.38	.30	UU9LFBNP-B322
5.0mH	2.81	260	308-1381-ND	.46	.38	.30	UU9LFBNP-B502
9.0mH	5.0	180	308-1382-ND	.46	.38	.30	UU9LFBNP-B902
16.5mH	7.0	160	308-1383-ND	.46	.38	.30	UU9LFBNP-B163
28mH	13.0	130	308-1384-ND	.46	.38	.30	UU9LFBNP-B283

Series UU9LFBH

Impedence characteristic in high frequencies is improved by the split bobbin. **Applications:** Common mode noise filter for TV, VCR, switching power supply, NC machine, PC & PC related device, measurement equipment and control unit

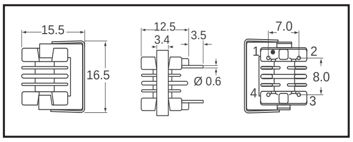

Inductance (min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
3.2mH	1.7	360	308-1410-ND	.49	.41	.32	UU9LFBHNP-B322
5.0mH	2.8	260	308-1411-ND	.49	.41	.32	UU9LFBHNP-B502
9.0mH	5.0	180	308-1412-ND	.49	.41	.32	UU9LFBHNP-B902
16mH	7.0	160	308-1413-ND	.49	.41	.32	UU9LFBHNP-B163
28mH	13	130	308-1414-ND	.49	.41	.32	UU9LFBHNP-B283

Series UU9LFH

Small size common mode choke.

Applications:
Multi-function telephone, AC adapter, FAX, small size fluorescent light, VCR, TV

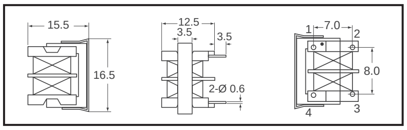

Inductance (min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
.47mH	0.15	1000	308-1385-ND	.46	.38	.30	UU9LFHNP-HB471
.68mH	0.25	850	308-1386-ND	.46	.38	.30	UU9LFHNP-HB681
1.0mH	0.35	700	308-1387-ND	.46	.38	.30	UU9LFHNP-HB102
2.2mH	0.7	500	308-1388-ND	.46	.38	.30	UU9LFHNP-HB222
3.9mH	1.2	380	308-1389-ND	.46	.38	.30	UU9LFHNP-HB392
4.7mH	1.6	340	308-1390-ND	.46	.38	.30	UU9LFHNP-HB472
6.8mH	2.5	250	308-1391-ND	.46	.38	.30	UU9LFHNP-HB682
10.0mH	4.0	200	308-1392-ND	.46	.38	.30	UU9LFHNP-HB103

Series UU10LF

Small size common mode choke.

Applications:
VCR, TV

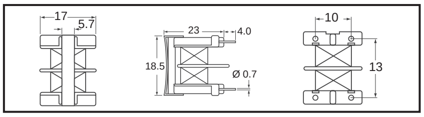

Inductance (min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
3.3mH	.71	650	308-1393-ND	.63	.53	.41	UU10LFNP-B332
6.8mH	1.26	430	308-1394-ND	.63	.53	.41	UU10LFNP-B682
12mH	2.20	340	308-1395-ND	.63	.53	.41	UU10LFNP-B123
22mH	3.64	250	308-1396-ND	.63	.53	.41	UU10LFNP-B223
33mH	5.74	200	308-1397-ND	.63	.53	.41	UU10LFNP-B333
51mH	9.12	150	308-1398-ND	.63	.53	.41	UU10LFNP-B513

Series UU16LF

AC common mode choke coil which has excellent attenuation characteristics in low frequency band.
Applications:
VCR, TV

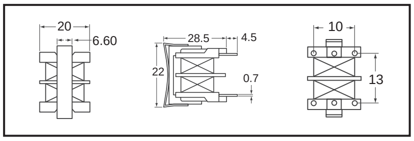

Inductance (min.)	D.C.R.(Ω) (Maximum at 20°C)	Current (A)	Digi-Key Part No.	Price Each 1	10	100	Sumida Part No.
1.5mH	0.125	1.9	308-1399-ND	.81	.67	.52	UU16LFNP-152
4.0mH	0.27	1.2	308-1400-ND	.81	.67	.52	UU16LFNP-402
8.0mH	0.46	0.9	308-1401-ND	.81	.67	.52	UU16LFNP-802
20mH	1.6	0.5	308-1402-ND	.81	.67	.52	UU16LFNP-203
30mH	2.5	0.4	308-1403-ND	.81	.67	.52	UU16LFNP-303

COILTRONICS® ECONO-PAC™/OCTA-PAC® Power Inductors and Transformers

COOPER Bussmann

These parts are commonly used in reference designs for manufacturers like Linear Technology, Texas Instruments, On-Semiconductor™, Maxim, National Semiconductor™, Fairchild Semiconductor®, Analog Devices and many more. • Surface mount magnetics that can be used as single or coupled inductors or 1:1 transformers that provide isolation between two windings • OCTA-PAC's are designed around high frequency, low loss material • ECONO-PAC's are a lower cost version of OCTA-PAC's offering high saturation flux density

Applications: • Computer and portable power devices • LCD panels, DVD players • Inductor: DC-DC converters • Buck, boost, forward and resonant converters • Noise filtering and filter chokes • Transformers: 1:1 300Vdc isolation, flyback, sepic

Specifications: • Operating Ambient Temperature Range: -40°C ~ 85°C (Range is application specific)
Infrared Reflow Temperature: 240°C maximum for 30 seconds on Non-RoHS Compliant components, 260°C maximum for 10 seconds on RoHS Compliant components

Packaging: • CTX-1, -1P Series *(1,100 pcs. on a 13" dia. reel; 24mm tape width, 12mm pitch)* **• CTX-2, -2P Series** *(800 pcs. on a 13" diameter reel; 24mm tape width, 12mm pitch)* **• CTX-3 Series** *(800 pieces on a 13" diameter reel; 24mm tape width, 16mm pitch)* **• CTX-4, -4P Series** *(600 pieces on a 13" diameter reel; 24mm tape width, 16mm pitch)* **• Legend:** • No suffix is OCTA-PAC • P suffix is ECONO-PAC

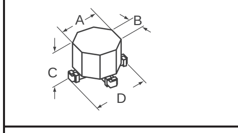

Series	Dimensions (mm) A (sq.)	B ref.	C max.	D
CTX-1	8.89	3.68	4.19	11.43
CTX-2	8.89	3.68	5.97	11.43
CTX-3	11.43	4.72	4.83	13.97
CTX-4	11.43	4.72	6.35	13.97

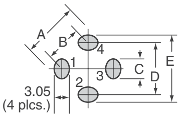

Series	Dimensions (mm) A	B	C	D	E
CTX-1, -2	10.72	7.04	3.68	9.96	13.00
CTX-3, -4	12.50	8.84	4.06	12.50	15.54

Connection Options

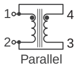

Parallel Connection: Doubles the current capacity

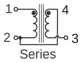

Series Connection: Four times the parallel inductance

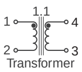

1:1 Ratio Transformer: For isolation and some flyback applications

Parallel Connection				Series Connection									Tape and Reel		
Open Circuit Inductance ±20% (µH)	Full Load Current DC (A)	Full Load Inductance Min. (µH)	DC Resistance Maximum (Ω)	Open Circuit Inductance ±20% (µH)	Full Load Current DC (A)	Full Load Inductance Min. (µH)	DC Resistance Max. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Size	Pricing	Coiltronics Part No.
OCTA-PAC Series															
4.70	3.00	2.66	.021	18.80	1.50	10.65	.084	513-1214-1-ND† ***NEW!***	5.43	4.94	3.68	513-1214-2-ND† ***NEW!***	800	1836.00	CTX5-2-R
4.90	4.40	2.59	.014	19.60	2.20	10.37	.056	513-1215-1-ND† ***NEW!***	5.61	5.10	3.80	513-1215-2-ND† ***NEW!***	600	1422.00	CTX5-4-R
9.60	3.40	4.82	.019	38.42	1.70	19.28	.078	513-1002-1-ND†	6.25	5.68	4.23	513-1002-2-ND†	600	1584.00	CTX10-4-R
10.00	1.90	4.85	.044	40.00	.95	19.40	.176	513-1003-1-ND†	4.93	4.49	3.34	513-1003-2-ND†	1,100	2085.00/M	CTX10-1-R
10.58	2.50	5.18	.031	42.30	1.25	20.72	.125	513-1004-1-ND†	6.04	5.49	4.08	513-1004-2-ND†	800	2040.00	CTX10-2-R
14.16	3.00	6.76	.024	56.64	1.50	27.03	.096	513-1005-1-ND	6.25	5.68	4.23	513-1005-2-ND	600	1584.00	CTX15-4
14.16	3.00	6.76	.024	56.64	1.50	27.03	.096	513-1202-1-ND† ***NEW!***	6.25	5.68	4.23	513-1202-2-ND† ***NEW!***	600	1584.00	CTX15-4-R
19.60	1.00	11.54	.146	78.40	.50	46.15	.583	513-1006-1-ND	4.93	4.49	3.34	513-1006-2-ND	1,100	—	CTX20-1
19.60	1.00	11.54	.146	78.40	.50	46.15	.583	513-1203-1-ND† ***NEW!***	4.93	4.49	3.34	513-1203-2-ND† ***NEW!***	1,100	2085.00/M	CTX20-1-R
19.60	2.10	10.68	.055	78.40	1.05	42.73	.220	513-1007-1-ND†	6.25	5.68	4.23	513-1007-2-ND†	600	1584.00	CTX20-4-R
20.18	1.50	10.76	.078	80.74	.75	43.04	.312	513-1008-1-ND†	6.14	5.58	4.16	513-1008-2-ND†	800	2076.00	CTX20-3-R
20.73	1.30	12.36	.107	82.91	.65	49.46	.426	513-1009-1-ND	6.04	5.49	4.08	—	—	—	CTX20-2
20.73	1.30	12.36	.107	82.91	.65	49.46	.426	513-1204-1-ND† ***NEW!***	6.04	5.49	4.08	513-1204-2-ND† ***NEW!***	800	2040.00	CTX20-2-R
25.92	2.00	13.32	.063	103.68	1.00	53.27	.253	513-1010-1-ND	6.25	5.68	4.23	513-1010-2-ND	600	1584.00	CTX25-4
25.92	2.00	13.32	.063	103.68	1.00	53.27	.253	513-1207-1-ND† ***NEW!***	6.25	5.68	4.23	513-1207-2-ND† ***NEW!***	600	1539.00	CTX25-4-R
31.77	1.40	15.90	.105	127.09	.70	63.59	.420	513-1011-1-ND	6.04	5.49	4.08	513-1011-2-ND	800	2040.00	CTX33-2
31.77	1.40	15.90	.105	127.09	.70	63.59	.420	513-1210-1-ND† ***NEW!***	6.04	5.49	4.08	513-1210-2-ND† ***NEW!***	800	2040.00	CTX33-2-R
32.86	.96	19.69	.083	131.42	.48	78.77	. 331	513-1012-1-ND†	6.14	5.58	4.16	513-1012-2-ND†	800	2076.00	CTX33-3-R
33.12	1.80	16.82	.072	132.50	.90	67.27	.287	513-1013-1-ND	6.25	5.68	4.23	513-1013-2-ND	600	1584.00	CTX33-4
33.12	1.80	16.82	.072	132.50	.90	67.27	.287	513-1211-1-ND† ***NEW!***	6.25	5.68	4.23	513-1211-2-ND† ***NEW!***	600	1584.00	CTX33-4-R
50.18	1.50	25.03	.111	200.70	.75	100.11	.443	513-1014-1-ND†	6.57	5.97	4.44	513-1014-2-ND†	600	1665.00	CTX50-4-R
50.63	.64	29.34	.365	202.50	.32	117.38	1.461	513-1015-1-ND	5.22	4.75	3.53	513-1015-2-ND	1,100	2205.00/M	CTX50-1
50.63	.64	29.34	.365	202.50	.32	117.38	1.461	513-1212-1-ND† ***NEW!***	5.22	4.75	3.53	513-1212-2-ND† ***NEW!***	1,100	2205.00/M	CTX50-1-R
51.18	.92	28.79	.210	204.73	.46	115.16	.839	513-1016-1-ND†	6.35	5.78	4.30	513-1016-2-ND†	800	2148.00	CTX50-2-R
67.08	1.20	35.29	.157	268.32	.60	141.15	.630	513-1017-1-ND	6.57	5.97	4.44	—	—	—	CTX68-4
67.08	1.20	35.29	.157	268.32	.60	141.15	.630	513-1216-1-ND† ***NEW!***	6.57	5.97	4.44	513-1216-2-ND† ***NEW!***	600	1665.00	CTX68-4-R
99.23	.44	58.72	.784	396.90	.22	234.88	3.137	513-1018-1-ND	5.22	4.75	3.53	513-1018-2-ND	1,100	2205.00/M	CTX100-1
99.23	.44	58.72	.784	396.90	.22	234.88	3.137	513-1195-1-ND† ***NEW!***	5.22	4.75	3.53	513-1195-2-ND† ***NEW!***	1,100	2205.00/M	CTX100-1-R
99.23	.92	54.56	.302	396.90	.46	218.25	1.210	513-1019-1-ND	6.57	5.97	4.44	513-1019-2-ND	600	1665.00	CTX100-4
99.23	.92	54.56	.302	396.90	.46	218.25	1.210	513-1198-1-ND† ***NEW!***	6.57	5.97	4.44	513-1198-2-ND† ***NEW!***	600	1665.00	CTX100-4-R
99.45	.63	57.45	.457	397.81	.32	229.79	1.828	513-1020-1-ND	6.35	5.78	4.30	513-1020-2-ND	800	2148.00	CTX100-2
99.45	.63	57.45	.457	397.81	.32	229.79	1.828	513-1196-1-ND† ***NEW!***	6.35	5.78	4.30	513-1196-2-ND† ***NEW!***	800	2148.00	CTX100-2-R
101.40	.70	52.48	.345	405.60	.35	209.93	1.381	513-1021-1-ND	6.46	5.87	4.37	513-1021-2-ND	800	2184.00	CTX100-3
101.40	.70	52.48	.345	405.60	.35	209.93	1.381	513-1197-1-ND† ***NEW!***	6.46	5.87	4.37	513-1197-2-ND† ***NEW!***	800	2184.00	CTX100-3-R
148.23	.82	77.17	.372	592.90	.41	308.69	1.488	513-1022-1-ND	6.57	5.97	4.44	513-1022-2-ND	600	1665.00	CTX150-4
148.23	.82	77.17	.372	592.90	.41	308.69	1.488	513-1201-1-ND† ***NEW!***	6.57	5.97	4.44	513-1201-2-ND† ***NEW!***	600	1665.00	CTX150-4-R
200.70	.64	111.08	.545	802.82	.32	444.32	2.180	513-1023-1-ND†	6.57	5.97	4.44	513-1023-2-ND†	600	1665.00	CTX200-4-R
254.40	.60	122.30	.615	1,017.60	.308	489.20	2.460	513-1024-1-ND	6.57	5.97	4.44	—	—	—	CTX250-4
254.40	.60	122.30	.615	1,017.60	.308	489.20	2.460	513-1206-1-ND† ***NEW!***	6.57	5.97	4.44	513-1206-2-ND† ***NEW!***	600	1665.00	CTX250-4-R
298.12	.62	147.92	.672	1,192.46	.31	591.66	2.687	513-1025-1-ND	6.57	5.97	4.44	513-1025-2-ND	600	1665.00	CTX300-4
298.12	.62	147.92	.672	1,192.46	.31	591.66	2.687	513-1208-1-ND† ***NEW!***	6.57	5.97	4.44	513-1208-2-ND† ***NEW!***	600	1665.00	CTX300-4-R
ECONO-PAC Series															
8.08	1.80	5.31	.052	32.33	.90	21.23	.207	513-1124-1-ND†	2.84	2.58	1.92	513-1124-2-ND†	1,100	1200.00/M	CTX8-1P-R
9.62	1.70	6.23	.057	38.48	.85	24.94	.227	513-1026-1-ND†	2.84	2.58	1.92	513-1026-2-ND†	1,100	1200.00/M	CTX10-1P-R
9.83	2.10	6.73	.045	39.30	1.05	26.92	.179	513-1027-1-ND	3.41	3.10	2.31	513-1027-2-ND	800	1152.00	CTX10-2P
9.83	2.10	6.73	.045	39.30	1.05	26.92	.179	513-1199-1-ND† ***NEW!***	3.41	3.10	2.31	513-1199-2-ND† ***NEW!***	800	1152.00	CTX10-2P-R
9.88	2.50	6.70	.047	39.53	1.25	26.79	.187	513-1200-1-ND† ***NEW!***	3.41	3.10	2.31	513-1200-2-ND† ***NEW!***	600	864.00	CTX10-4P-R
19.58	1.50	13.37	.097	78.34	.75	53.48	.387	513-1029-1-ND†	3.41	3.10	2.31	513-1029-2-ND†	800	1147.20	CTX20-2P-R
20.62	1.90	13.44	.084	82.47	.95	53.76	.337	513-1030-1-ND	3.41	3.10	2.31	513-1030-2-ND	600	864.00	CTX20-4P
20.62	1.90	13.44	.084	82.47	.95	53.76	.337	513-1205-1-ND† ***NEW!***	3.41	3.10	2.31	513-1205-2-ND† ***NEW!***	600	864.00	CTX20-4P-R
24.79	1.40	16.60	.109	99.14	.70	66.38	.436	513-1031-1-ND	3.41	3.10	2.31	513-1031-2-ND	800	1152.00	CTX25-2P
32.33	.80	22.27	.250	129.32	.40	89.06	1.001	513-1032-1-ND	2.84	2.58	1.92	513-1032-2-ND	1,100	1200.00/M	CTX33-1P
32.33	.80	22.27	.250	129.32	.40	89.06	1.001	513-1209-1-ND† ***NEW!***	2.77	2.52	1.88	513-1209-2-ND† ***NEW!***	1,100	1170.00/M	CTX33-1P-R
32.67	1.30	21.29	.126	130.70	.65	85.17	.503	513-1033-1-ND†	3.41	3.10	2.31	513-1033-2-ND†	800	1152.00	CTX33-2P-R
48.80	1.20	32.21	.201	195.20	.60	128.83	.805	513-1034-1-ND	3.41	3.10	2.31	513-1034-2-ND	600	864.00	CTX50-4P
48.80	1.20	32.21	.201	195.20	.60	128.83	.805	513-1213-1-ND† ***NEW!***	3.41	3.10	2.31	513-1213-2-ND† ***NEW!***	600	864.00	CTX50-4P-R
67.37	1.10	43.04	.238	269.50	.55	172.16	.952	513-1035-1-ND†	3.41	3.10	2.31	513-1035-2-ND†	600	864.00	CTX68-4P-R
99.01	.54	63.64	.557	396.06	.27	254.55	2.227	513-1036-1-ND†	2.84	2.58	1.92	513-1036-2-ND†	1,100	1200.00/M	CTX100-1P-R

† ***RoHS Compliant***

UNI-PAC™ and Amorphous Surface Mount Power Inductors

Features: These specified parts are designed for use in National Semiconductors Webench program, but are also used in many power applications like DC-DC converters and battery powered equipment. Miniature size with maximum power density and are rugged enough for design in high shock environments.
Specifications: • Operating Ambient Temperature Range: -40°C ~ 85°C **• Infrared Reflow Temperature:** 240°C maximum for 30 seconds on Non-RoHS Compliant components, 260°C maximum for 10 seconds on RoHS Compliant components

Fig. 1

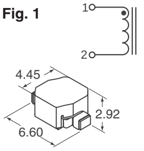

Fig. 2

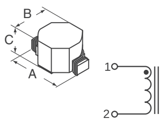

Series	Dimensions (mm) A Max.	B Max.	C Max.
UP1B	8.89	6.10	5.0
UP2B	13.97	10.41	6.0
UP2C	12.90	9.40	5.2

Fig. 3

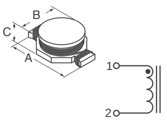

Series	Dimensions (mm) A Max.	B Max.	C Max.
UP2	13.74	8.76	5.87
UP3B	19.30	13.21	6.8
UP4B	22.10	15.00	7.87

Fig. 4

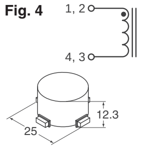

Fig.	Rated Inductance (µH)	OCL(1) ± 20% (µH)	IRMS(2) Amperes	ISAT(3) Amperes	DCR(4) (Ω) (Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Coiltronics Part No.
UP0.4C Series													
1	22	21.8	0.76	0.77	0.360	513-1061-1-ND†	1.03	.94	.70	513-1061-2-ND†	2,500	435.00/M	UP0.4C-220-R
	33	32.2	0.64	0.63	0.560	513-1063-1-ND†	1.03	.94	.70	513-1063-2-ND†	2,500	435.00/M	UP0.4C-330-R
	47	46.5	0.53	0.53	0.820	513-1064-1-ND†	1.03	.94	.70	513-1064-2-ND†	2,500	435.00/M	UP0.4C-470-R

Note (1): Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc. **Note (2):** RMS current for an approximate ΔT of 40°C at an ambient temperature of 85°C **Note (3):** Peak current for approximately 30% rolloff UP0.4C, UP1B, 3B, 4B. 10% roll off UP2B at 20°C. **Note (4):** DCR limits 20°C † ***RoHS Compliant***

(Continued)

UNI-PAC™ and Amorphous Surface Mount Power Inductors *(Cont.)*

Fig.	Rated Inductance (µH)	OCL(1) ± 20% (µH)	IRMS(2) Amperes	ISAT(3) Amperes	DCR(4) (Ω) (Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Coiltronics Part No.
						UP2B Series							
1	68	68.2	0.45	0.43	1.10	513-1065-1-ND	1.03	.94	.70	513-1065-2-ND	2,500	435.00/M	UP0.4C-680
	68	68.2	0.45	0.43	1.10	513-1227-1-ND† **NEW!**	1.03	.94	.70	513-1227-2-ND† **NEW!**	2,500	435.00/M	UP0.4C-680-R
	100	102.5	0.37	0.35	1.58	513-1060-1-ND†	1.03	.94	.70	513-1060-2-ND†	2,500	435.00/M	UP0.4C-101-R
						UP1B Series							
2	0.47	0.569	6.0	7.7	0.0097	513-1183-1-ND†	1.14	1.04	.77	513-1183-2-ND†	900	432.00	UP1B-R47-R
	1.0	1.20	4.4	5.3	0.0177	513-1181-1-ND†	1.14	1.04	.77	513-1181-2-ND†	900	432.00	UP1B-1R0-R
	4.7	5.15	2.2	2.6	0.0544	513-1182-1-ND†	1.14	1.04	.77	513-1182-2-ND†	900	432.00	UP1B-4R7-R
	10.0	11.00	1.5	1.9	0.1107	513-1180-1-ND†	1.14	1.04	.77	513-1180-2-ND†	900	432.00	UP1B-100-R
	15.0	16.00	1.2	1.5	0.1747	513-1067-1-ND	1.14	1.04	.77	513-1067-2-ND	900	432.00	UP1B-150
	15.0	16.00	1.2	1.5	0.1747	513-1228-1-ND† **NEW!**	1.14	1.04	.77	513-1228-2-ND† **NEW!**	900	432.00	UP1B-150-R
	22.0	23.50	1.0	1.2	0.2541	513-1069-1-ND†	1.14	1.04	.77	513-1069-2-ND†	900	432.00	UP1B-220-R
	33.0	36.00	0.82	0.99	0.3670	513-1071-1-ND†	1.14	1.04	.77	513-1071-2-ND†	900	432.00	UP1B-330-R
	47.0	48.50	0.72	0.87	0.4740	513-1073-1-ND†	1.14	1.04	.77	513-1073-2-ND†	900	432.00	UP1B-470-R
	68.0	73.52	0.58	0.67	0.7320	513-1074-1-ND†	1.14	1.04	.77	513-1074-2-ND†	900	432.00	UP1B-680-R
	100.0	112.67	0.47	0.53	1.11	513-1066-1-ND†	1.14	1.04	.77	513-1066-2-ND†	900	432.00	UP1B-101-R
	150.0	152.40	0.40	0.46	1.61	513-1229-1-ND† **NEW!**	1.14	1.04	.77	513-1229-2-ND† **NEW!**	900	432.00	UP1B-151-R
	220.0	223.10	0.36	0.38	1.96	513-1070-1-ND†	1.14	1.04	.77	513-1070-2-ND†	900	432.00	UP1B-221-R
	330.0	331.90	0.28	0.31	3.10	513-1072-1-ND†	1.14	1.04	.77	513-1072-2-ND†	900	432.00	UP1B-331-R
	1.0	1.00	9.3	9.9	0.0065	513-1186-1-ND†	1.38	1.26	.94	513-1186-2-ND†	550	321.75	UP2B-1R0-R
	4.7	4.77	5.5	4.2	0.0165	513-1187-1-ND†	1.38	1.26	.94	513-1187-2-ND†	550	321.75	UP2B-4R7-R
	10.0	9.73	4.3	3.3	0.0267	513-1185-1-ND†	1.38	1.26	.94	513-1185-2-ND†	550	321.75	UP2B-100-R
	15.0	15.43	3.5	2.4	0.0410	513-1076-1-ND†	1.38	1.26	.94	513-1076-2-ND†	550	321.75	UP2B-150-R
	22.0	22.50	2.8	2.0	0.0617	513-1078-1-ND	1.38	1.26	.94	513-1078-2-ND	550	321.75	UP2B-220
	22.0	22.50	2.8	2.0	0.0617	513-1230-1-ND† **NEW!**	1.38	1.26	.94	513-1230-2-ND† **NEW!**	550	321.75	UP2B-220-R
	33.0	33.13	2.1	1.7	0.0917	513-1080-1-ND†	1.38	1.26	.94	513-1080-2-ND†	550	321.75	UP2B-330-R
	47.0	48.65	1.7	1.4	0.1388	513-1082-1-ND†	1.38	1.26	.94	513-1082-2-ND†	550	321.75	UP2B-470-R
	68.0	68.17	1.5	1.2	0.1787	513-1083-1-ND†	1.38	1.26	.94	513-1083-2-ND†	550	321.75	UP2B-680-R
	100.0	102.60	1.2	0.95	0.2707	513-1075-1-ND†	1.38	1.26	.94	513-1075-2-ND†	550	321.75	UP2B-101-R
	150.0	150	1.0	0.77	0.4100	513-1077-1-ND†	1.38	1.26	.94	513-1077-2-ND†	550	321.75	UP2B-151-R
	220.0	223	0.773	0.637	0.6717	513-1079-1-ND†	1.38	1.26	.94	513-1079-2-ND†	550	321.75	UP2B-221-R
	330.0	338	0.676	0.510	0.8783	513-1081-1-ND†	1.38	1.26	.94	513-1081-2-ND†	550	321.75	UP2B-331-R
						UP2C Series							
2	33.0	32.11	2.16	2.20	79.7	513-1188-1-ND†	1.49	1.36	1.01	513-1188-2-ND†	900	567.00	UP2C-330-R
						UP2 Series							
3	100	102.60	1.4	0.95	0.2772	513-1184-1-ND†	1.99	1.81	1.35	513-1184-2-ND†	600	504.00	UP2-101-R
						UP3B Series							
3	10.0	11.00	4.3	5.2	0.0260	513-1084-1-ND†	1.67	1.52	1.13	513-1084-2-ND†	450	317.25	UP3B-100-R
	15.0	16.38	3.9	4.3	0.0317	513-1086-1-ND	1.67	1.52	1.13	513-1086-2-ND	450	317.25	UP3B-150
	15.0	16.38	3.9	4.3	0.0317	513-1231-1-ND† **NEW!**	1.67	1.52	1.13	513-1231-2-ND† **NEW!**	450	317.25	UP3B-150-R
	22.0	22.93	3.1	3.7	0.0490	513-1088-1-ND†	1.67	1.52	1.13	513-1088-2-ND†	450	317.25	UP3B-220-R
	33.0	33.85	2.4	3.0	0.0688	513-1089-1-ND†	1.67	1.52	1.13	513-1089-2-ND†	450	317.25	UP3B-330-R
	47.0	51.00	1.9	2.4	0.1082	513-1091-1-ND	1.67	1.52	1.13	513-1091-2-ND	450	317.25	UP3B-470
	47.0	51.00	1.9	2.4	0.1082	513-1232-1-ND† **NEW!**	1.67	1.52	1.13	513-1232-2-ND† **NEW!**	450	317.25	UP3B-470-R
	68.0	69.50	1.6	2.0	0.1558	513-1092-1-ND†	1.67	1.52	1.13	513-1092-2-ND†	450	317.25	UP3B-680-R
	100.0	101.40	1.4	1.8	0.2053	513-1085-1-ND†	1.67	1.52	1.13	513-1085-2-ND†	450	317.25	UP3B-101-R
	150.0	152.9	1.2	1.4	0.2960	513-1087-1-ND†	1.67	1.52	1.13	513-1087-2-ND†	450	317.25	UP3B-151-R
	330.0	332.80	0.75	0.98	0.7330	513-1090-1-ND†	1.67	1.52	1.13	513-1090-2-ND†	450	317.25	UP3B-331-R
						UP4B Series							
3	1.0	0.916	17.3	37.3	0.0023	513-1189-1-ND†	1.92	1.75	1.30	513-1189-2-ND†	275	222.75	UP4B-1R0-R
	1.5	1.52	13.4	28.9	0.0039	513-1190-1-ND†	1.92	1.75	1.30	513-1190-2-ND†	275	222.75	UP4B-1R5-R
	15.0	15.61	5.5	9.1	0.0230	513-1094-1-ND†	1.92	1.75	1.30	513-1094-2-ND†	275	222.75	UP4B-150-R
	22.0	22.61	4.5	7.6	0.0340	513-1096-1-ND†	1.92	1.75	1.30	513-1096-2-ND†	275	222.75	UP4B-220-R
	47.0	48.10	3.1	5.2	0.0740	513-1098-1-ND†	1.92	1.75	1.30	513-1098-2-ND†	275	222.75	UP4B-470-R
	68.0	69.14	2.4	4.3	0.1200	513-1099-1-ND†	1.92	1.75	1.30	513-1099-2-ND†	275	222.75	UP4B-680-R
	100.0	99.42	2.0	3.6	0.1700	513-1093-1-ND†	1.92	1.75	1.30	513-1093-2-ND†	275	222.75	UP4B-101-R
	150.0	146.90	1.7	3.0	0.2392	513-1233-1-ND† **NEW!**	1.92	1.75	1.30	513-1233-2-ND† **NEW!**	275	222.75	UP4B-151-R
	220.0	221.40	1.4	2.4	0.3571	513-1234-1-ND† **NEW!**	1.92	1.75	1.30	513-1234-2-ND† **NEW!**	275	222.75	UP4B-221-R
						CTX06 Series							
4	22	23.1 ‡	8.5	6.8	0.0117	513-1102-ND	11.15	10.13	7.54	—	—	—	CTX06-14622
	33	34.1 ‡	7.7	7.7	0.0141	513-1101-ND†	11.25	10.23	7.61	—	—	—	CTX06-14621
	47	47.2 ‡	7.1	8.5	0.0166	513-1100-ND†	16.90	15.36	11.43	—	—	—	CTX06-14620

‡ Tolerance is ±25%

Note (1): Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc. **Note (2):** RMS current for an approximate ΔT of 40°C at an ambient temperature of 85°C. **Note (3):** Peak current for approximately 30% roll off UP0.4C, UP1B, 3B, 4B. 10% roll off UP2B at 20°C. **Note (4):** DCR limits 20°C † ***RoHS Compliant***

Shielded High Power Inductors — DR Series

Series	Dimensions (mm) Square	Height
DR73	7.60	3.55
DR74	7.60	4.35
DR125	12.50	6.00
DR127	12.50	8.00

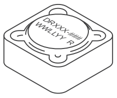

Features:

Designed for use in many power applications, DC-DC converters, LCD panels, DVD players and portable power devices.

Specifications:
- **Operating Ambient Temperature Range:** -40°C ~ 125°C
- **IR Reflow Temperature:** 240°C maximum for 30 seconds, 260°C maximum for 10 seconds for RoHS Compliant components

Rated Inductance (µH)	OCL(1) ± 20% (µH)	IRMS(2) Amperes	ISAT(3) Amperes Peak	DCR(4) (Ω) (Typ.)	Volt-uSec(5) Typ.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Coiltronics Part No.
						DR73 Series							
1.00	0.992	5.28	7.97	0.0102	3.56	513-1130-1-ND†	1.67	1.52	1.13	513-1130-2-ND†	1,350	705.00/M	DR73-1R0-R
1.50	1.482	4.67	6.52	0.0130	4.36	513-1132-1-ND†	1.67	1.52	1.13	513-1132-2-ND†	1,350	705.00/M	DR73-1R5-R
4.70	4.422	3.09	3.78	0.0297	7.52	513-1133-1-ND†	1.67	1.52	1.13	513-1133-2-ND†	1,350	705.00/M	DR73-4R7-R
6.80	6.480	2.55	3.12	0.0435	9.11	513-1134-1-ND†	1.67	1.52	1.13	513-1134-2-ND†	1,350	705.00/M	DR73-6R8-R
10.0	10.30	2.08	2.47	0.0656	11.5	513-1129-1-ND†	1.67	1.52	1.13	513-1129-2-ND†	1,350	705.00/M	DR73-100-R
15.0	15.01	1.83	2.05	0.0844	13.9	513-1135-1-ND†	1.67	1.52	1.13	513-1135-2-ND†	1,350	705.00/M	DR73-150-R
33.0	34.41	1.31	1.35	0.1660	21.0	513-1131-1-ND†	1.67	1.52	1.13	513-1131-2-ND†	1,350	705.00/M	DR73-330-R
47.0	48.62	1.08	1.14	0.2410	24.9	513-1136-1-ND†	1.67	1.52	1.13	513-1136-2-ND†	1,350	705.00/M	DR73-470-R
						DR74 Series							
1.00	0.952	5.39	10.2	0.0099	3.08	513-1139-1-ND†	1.70	1.55	1.16	513-1139-2-ND†	1,100	720.00/M	DR74-1R0-R
2.20	1.986	4.76	7.06	0.0126	4.45	513-1140-1-ND†	1.70	1.55	1.16	513-1140-2-ND†	1,100	720.00/M	DR74-2R2-R
10.0	9.882	2.41	3.17	0.0489	9.92	513-1137-1-ND†	1.70	1.55	1.16	513-1137-2-ND†	1,100	720.00/M	DR74-100-R
15.0	16.09	2.11	2.48	0.0637	12.7	513-1138-1-ND†	1.70	1.55	1.16	513-1138-2-ND†	1,100	720.00/M	DR74-150-R
33.0	33.01	1.41	1.73	0.143	18.1	513-1141-1-ND†	1.70	1.55	1.16	513-1141-2-ND†	1,100	720.00/M	DR74-330-R
100	101.6	0.86	0.99	0.383	31.8	513-1142-1-ND	1.70	1.55	1.16	—	—	—	DR74-101
100	101.6	0.86	0.99	0.383	31.8	513-1225-1-ND† **NEW!**	1.70	1.55	1.16	513-1225-2-ND† **NEW!**	1,100	720.00/M	DR74-101-R
						DR125 Series							
1.00	0.894	15.0	23.6	0.0024	4.43	513-1126-1-ND†	1.78	1.62	1.20	513-1126-2-ND†	600	450.00	DR125-1R0-R
4.70	5.274	7.18	9.71	0.0105	10.8	513-1125-1-ND†	1.78	1.62	1.20	513-1125-2-ND†	600	450.00	DR125-4R7-R
22.0	22.36	3.70	4.71	0.0396	22.2	513-1127-1-ND†	1.78	1.62	1.20	513-1127-2-ND†	600	450.00	DR125-220-R
47.0	47.47	2.71	3.24	0.0740	32.3	513-1128-1-ND†	1.78	1.62	1.20	513-1128-2-ND†	600	450.00	DR125-470-R

† ***RoHS Compliant***

(Continued)

Shielded High Power Inductors — DR Series *(Cont.)*

Rated Inductance (µH)	OCL(1) ± 20% (µH)	IRMS(2) Amperes	ISAT(3) Amperes Peak	DCR(4) (Ω) (Type)	Volt-uSec(5) Type	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Coiltronics Part No.
							1	10	100		Size	Pricing	
						DR127 Series							
0.47	0.419	17.9	56.0	0.00195	3.50	513-1059-1-ND†	1.85	1.68	1.25	513-1059-2-ND†	350	273.00	DR127-R47-R
1.00	0.821	15.5	40.0	0.00313	4.90	513-1218-1-ND† ***NEW!***	1.85	1.68	1.25	513-1218-2-ND† ***NEW!***	350	273.00	DR127-1R0-R
1.50	1.357	13.5	31.1	0.00341	6.30	513-1043-1-ND	1.85	1.68	1.25	513-1043-2-ND	350	273.00	DR127-1R5
1.50	1.357	13.5	31.1	0.00341	6.30	513-1219-1-ND† ***NEW!***	1.85	1.68	1.25	513-1219-2-ND† ***NEW!***	350	273.00	DR127-1R5-R
2.20	2.027	12.5	25.5	0.00402	7.70	513-1046-1-ND	1.85	1.68	1.25	—	—	—	DR127-2R2
2.20	2.027	12.5	25.5	0.00402	7.70	513-1220-1-ND† ***NEW!***	1.85	1.68	1.25	513-1220-2-ND† ***NEW!***	350	273.00	DR127-2R2-R
3.30	2.831	10.5	21.5	0.00567	9.10	513-1221-1-ND† ***NEW!***	1.85	1.68	1.25	513-1221-2-ND† ***NEW!***	350	273.00	DR127-3R3-R
4.70	4.841	8.25	16.5	0.00917	11.9	513-1222-1-ND† ***NEW!***	1.85	1.68	1.25	513-1222-2-ND† ***NEW!***	350	273.00	DR127-4R7-R
6.80	7.387	7.34	13.3	0.0116	14.7	513-1055-1-ND†	1.85	1.68	1.25	513-1055-2-ND†	350	273.00	DR127-6R8-R
8.20	8.861	6.32	12.2	0.0157	16.1	513-1058-1-ND†	1.85	1.68	1.25	513-1058-2-ND†	350	273.00	DR127-8R2-R
10.0	10.47	6.04	11.2	0.0172	17.5	513-1037-1-ND†	1.85	1.68	1.25	513-1037-2-ND†	350	273.00	DR127-100-R
15.0	14.09	5.03	9.66	0.0247	20.3	513-1040-1-ND†	1.85	1.68	1.25	513-1040-2-ND†	350	273.00	DR127-150-R
22.0	22.93	4.00	7.57	0.0391	25.9	513-1044-1-ND†	1.85	1.68	1.25	513-1044-2-ND†	350	273.00	DR127-220-R
33.0	33.92	3.23	6.22	0.0600	31.5	513-1047-1-ND†	1.85	1.68	1.25	513-1047-2-ND†	350	273.00	DR127-330-R
47.0	47.05	2.95	5.28	0.0719	37.1	513-1050-1-ND†	1.85	1.68	1.25	513-1050-2-ND†	350	273.00	DR127-470-R
68.0	66.48	2.44	4.44	0.105	44.1	513-1053-1-ND†	1.85	1.68	1.25	513-1053-2-ND†	350	273.00	DR127-680-R
82.0	79.75	2.09	4.06	0.143	48.3	513-1056-1-ND†	1.85	1.68	1.25	513-1056-2-ND†	350	273.00	DR127-820-R
100	99.31	1.96	3.64	0.163	53.9	513-1038-1-ND†	1.85	1.68	1.25	513-1038-2-ND†	350	273.00	DR127-101-R
150	144.9	1.59	3.01	0.247	65.1	513-1041-1-ND†	1.85	1.68	1.25	513-1041-2-ND†	350	273.00	DR127-151-R
220	221.5	1.29	2.43	0.376	80.5	513-1045-1-ND†	1.85	1.68	1.25	513-1045-2-ND†	350	273.00	DR127-221-R
330	323.6	1.04	2.01	0.574	97.3	513-1048-1-ND†	1.85	1.68	1.25	513-1048-2-ND†	350	273.00	DR127-331-R
470	467.1	0.85	1.68	0.861	117	513-1051-1-ND†	1.85	1.68	1.25	513-1051-2-ND†	350	273.00	DR127-471-R
680	676.7	0.76	1.39	1.08	141	513-1054-1-ND	1.85	1.68	1.25	513-1054-2-ND	350	273.00	DR127-681
680	676.7	0.76	1.39	1.08	141	513-1223-1-ND† ***NEW!***	1.85	1.68	1.25	513-1223-2-ND† ***NEW!***	350	273.00	DR127-681-R
820	818.1	0.65	1.27	1.47	155	513-1057-1-ND	1.85	1.68	1.25	513-1057-2-ND	350	273.00	DR127-821
820	818.1	0.65	1.27	1.47	155	513-1224-1-ND† ***NEW!***	1.85	1.68	1.25	513-1224-2-ND† ***NEW!***	350	273.00	DR127-821-R
1000	1005	0.61	1.14	1.66	172	513-1039-1-ND	1.85	1.68	1.25	513-1039-2-ND	350	273.00	DR127-102
1000	1005	0.61	1.14	1.66	172	513-1217-1-ND† ***NEW!***	1.85	1.68	1.25	513-1217-2-ND† ***NEW!***	350	273.00	DR127-102-R

Note (1): Open Circuit Inductance Test Parameters: 100KHz, 0.25Vrms, 0.0 Adc. **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximately 30% roll off at 20°C. **Note (4):** DCR limits at 20°C **Note (5):** Applied Volt-Time product (V-μS) across the inductor. This value represents the applied V-μS at 100KHz necessary to generate a core loss equal to 10% of the total losses for 40°C temperature rise † ***RoHS Compliant***.

Shielded Low Profile, High Power Inductors – SD Series (SMD)

Series	Dimensions (mm)	
	Square	Height
SD10	5.20	1.00
SD14	5.20	1.45

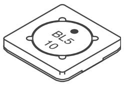

Specifications: • **Operating Ambient Temperature:** -40°C~85°C
• **IR Reflow Temperature:** 240°C maximum for 30 seconds, 260°C maximum for 10 seconds for RoHS Compliant components

Rated Inductance (µH)	OCL(1) ± 20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) Amperes Peak	DCR(4) (Ω) Typ.	Volt-uSec(5) Typ.	Part Marking	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Coiltronics Part No.
								1	10	100		Size	Pricing	
							SD10 Series							
1.00	1.119	1.93	2.25	0.0448	3.3	B	513-1168-1-ND†	1.88	1.71	1.28	513-1168-2-ND†	3,800	795.00/M	SD10-1R0-R
2.20	2.081	1.35	1.65	0.0912	4.5	D	513-1169-1-ND†	1.88	1.71	1.28	513-1169-2-ND†	3,800	795.00/M	SD10-2R2-R
3.30	3.339	1.24	1.31	0.1078	5.7	E	513-1170-1-ND†	1.88	1.71	1.28	513-1170-2-ND†	3,800	795.00/M	SD10-3R3-R
4.70	4.893	1.04	1.08	0.1535	6.9	F	513-1171-1-ND	1.88	1.71	1.28	513-1171-2-ND	3,800	795.00/M	SD10-4R7
4.70	4.893	1.04	1.08	0.1535	6.9	F	513-1226-1-ND† ***NEW!***	1.88	1.71	1.28	513-1226-2-ND† ***NEW!***	3,800	795.00/M	SD10-4R7-R
6.20	6.743	0.94	0.92	0.1870	8.1	G	513-1172-1-ND†	1.88	1.71	1.28	513-1172-2-ND†	3,800	795.00/M	SD10-6R2-R
8.20	8.889	0.800	0.800	0.2607	9.3	H	513-1173-1-ND†	1.88	1.71	1.28	513-1173-2-ND†	3,800	795.00/M	SD10-8R2-R
10 0	10.07	0.760	0.752	0.336	9.9	J	513-1167-1-ND†	1.88	1.71	1.28	513-1167-2-ND†	3,800	795.00/M	SD10-100-R
							SD14 Series							
3.2	3.19	1.94	2.08	0.0663	7.9	G	513-1176-1-ND†	1.88	1.71	1.28	513-1176-2-ND†	3,800	795.00/M	SD14-3R2-R
4.5	4.53	1.64	1.74	0.0935	9.4	H	513-1177-1-ND†	1.88	1.71	1.28	513-1177-2-ND†	3,800	795.00/M	SD14-4R5-R
6.9	6.98	1.35	1.41	0.1363	11.6	J	513-1178-1-ND†	1.88	1.71	1.28	513-1178-2-ND†	3,800	795.00/M	SD14-6R9-R
8.8	8.88	1.14	1.25	0.1913	13.1	K	513-1179-1-ND†	1.88	1.71	1.28	513-1179-2-ND†	3,800	795.00/M	SD14-8R8-R
10	9.93	1.1	1.18	0.2058	13.9	L	513-1174-1-ND†	1.88	1.71	1.28	513-1174-2-ND†	3,800	795.00/M	SD14-100-R
15	14.68	0.98	0.969	0.2609	16.9	M	513-1175-1-ND†	1.88	1.71	1.28	513-1175-2-ND†	3,800	795.00/M	SD14-150-R

Note (1): Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc. **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. **Note (3):** Peak current for approximate 30% roll off at 20°C. **Note (4):** DCR limits 20°C **Note (5):** Applied Volt-Time product (V-uS) across the inductor at 100kHz necessary to generate a core loss equal to 10% of the total losses for 40°C temperature rise. † ***RoHS Compliant***

Dual Winding, Shielded Inductors/Transformers DRQ/Low Profile SDQ Series (SMD)

Series	Dimensions (mm)	
	Square	Height
DRQ74	7.6	4.45
DRQ127	12.5	8.0
SDQ12	5.2	1.2

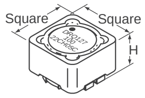

Features:

Dual winding inductors can be used as either a single inductor, or in coupled inductor/transformer applications (1:1 turns ratio), offering a broad range of inductance and current ratings.

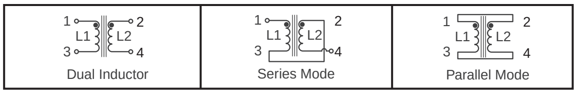

Dual Inductor

Series Mode

Parallel Mode

Specifications:

- **Operating Temperature:** -40°C ~ 125°C, SDQ Series -40°C ~ 85°C (ranges are application specific)
- **IR Reflow Temperature:** 260°C for 10 second max., 200VAC isolation between windings. Turns Ratio: (1-2):(3-4) 1:1

Rated Inductance (µH)	Parallel Ratings					Series Ratings					Part Marking	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Coiltronics Part No.
	OCL(1) ±20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) (Amperes Peak)	DCR(4) (Ω) (Typ.)	Volt(5) µ-Sec.	OCL(1) ±20% (µH)	I_{RMS}(2) Amperes	I_{SAT}(3) (Amperes Peak)	DCR(4) (Ω) (Typ.)	Volt(5) µ-Sec.			1	10	100		Size	Pricing	
											DRQ74 Series								
22.0	21.73	1.75	2.13	0.0925	14.7	86.92	0.874	1.07	0.371	29.4	—	513-1148-1-ND	1.78	1.62	1.20	513-1148-2-ND	1,100	750.00/M	DRQ74-220-R
											DRQ127Series								
4.70	4.841	8.25	16.5	0.00917	11.9	19.36	4.13	8.24	0.0367	23.8	—	513-1147-1-ND	2.45	2.23	1.66	513-1147-2-ND	350	362.25	DRQ127-4R7-R
10.0	10.47	6.04	11.2	0.0172	17.5	41.88	3.02	5.60	0.0686	35.0	—	513-1143-1-ND	2.45	2.23	1.66	513-1143-2-ND	350	362.25	DRQ127-100-R
15.0	14.09	5.03	9.66	0.0247	20.3	56.36	2.51	4.83	0.099	40.6	—	513-1144-1-ND	2.45	2.23	1.66	513-1144-2-ND	350	362.25	DRQ127-150-R
22.0	22.93	4.00	7.57	0.0391	25.9	91.72	2.00	3.78	0.157	51.8	—	513-1145-1-ND	2.45	2.23	1.66	513-1145-2-ND	350	362.25	DRQ127-220-R
33.0	33.92	3.23	6.22	0.0600	31.5	135.7	1.61	3.11	0.241	63.0	—	513-1146-1-ND	2.45	2.23	1.66	513-1146-2-ND	350	362.25	DRQ127-330-R
											SDQ12 Series								
6.2	6.25	1.02	1.22	0.2387	8.75	25.00	0.512	0.608	0.9548	17.5	G	513-1111-1-ND	2.06	1.88	1.40	513-1111-2-ND	3,800	870.00/M	SDQ12-6R2-R
8.2	8.41	0.868	1.05	0.3318	10.15	33.64	0.434	0.524	1.33	20.3	H	513-1112-1-ND	2.06	1.88	1.40	513-1112-2-ND	3,800	870.00/M	SDQ12-8R2-R

Note (1): Open Circuit Inductance Test Parameters: 100KHz, 0.250Vrms, 0.0 Adc Parallel (1,2-4,2) Series: (1-4) tie (2-3) **Note (2):** RMS current for an approximate ΔT of 40°C without core loss. It is recommended that the temperature of the part not exceed 125°C. De-rating is necessary for AC currents. **Note (3):** Peak current for approximate 30% roll off at 20°C. **Note (4):** DCR limits at 20°C **Note (5):** Applied Volt-Time product (V-μS) across the inductor. This value represents the applied V-μS at 100kHz necessary to generate a core loss equal to 10% of the total losses for a 40°C temperature rise.

COILTRONICS®
COOPER Bussmann

Common Mode Inductors-CMS Series (SMD)

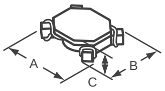

Series	Dimensions (mm) A	B	C
CMS1	9.4	7.2	2.6
CMS2	8.9	11.4	6.0

Specifications: • **Operating Temperature:** -40°C ~ 160°C (160°C maximum inductance values are sustained up to 160°C) • **Isolation Voltage:** 300Vdc, Noise attenuation up to 44dB • **Frequency Range:** Up to 100MHz • **IR Reflow Temperature:** 260°C for 10 seconds maximum

OCL Nominal ±20% (µH)	IRMS Amperes (Max.)	DCR @ 20°C (Ω) (Typ.)	Digi-Key Part. No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Coiltronics Part No.
4.5	7.00	0.0027	513-1114-1-ND	2.13	1.94	1.44	513-1114-2-ND	2,000	900.00/M	CMS1-1-R
41.5	2.60	0.019	513-1113-1-ND	2.13	1.94	1.44	513-1113-2-ND	2,000	900.00/M	CMS1-7-R
102	2.80	0.019	513-1115-1-ND	3.27	2.97	2.21	513-1115-2-ND	800	1104.00	CMS2-4-R

Toroidal Power Inductors

Specifications:
- **Operating Temperature:** -40°C ~ 75°C, UL94V-O flammability test

Series	Dimensions (mm) øD	Thickness
CTX50-1	16.2	9.0
CTX250-2	31.2	19.0

Fig. 1

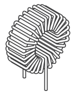

Fig. 2

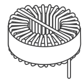

Fig.	Rated Inductance (µH)	OCL$^{(1)}$ ± 20% (µH)	IDC$^{(2)}$ Amperes	ISAT$^{(3)}$ Amperes	DCR @ 20°C (Ω) (Max.)	Digi-Key Part No.	Price Each 1	10	100	Coiltronics Part No.
1	50	50.29	2.6	2.7	0.0715	513-1108-ND	2.12	1.93	1.44	CTX50-1-52-R
2	50	50.29	2.6	2.7	0.0715	513-1116-ND	3.66	3.33	2.48	CTX50-1-52LP-R
2	250	251.1	4.2	4.2	0.0833	513-1117-ND	7.74	7.04	5.24	CTX250-2-52LP-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.250 Vrms, 0.0 Adc. **Note (2):** DC Current for an approximate ΔT of 30°C at 75°C ambient with no core loss. **Note (3):** Peak current for an approximate 30% roll-off in open circuit inductance.

Shielded, Low Profile Power Inductors - FLAT PAC™ (SMD)

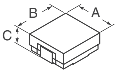

Series	Dimensions (mm) A	B	C
FP3	6.7	7.3	3.0
HC7	13.0	13.8	5.5
HC8	10.4	10.4	4.0

Features: • A design that utilizes powder iron material with a non-organic binder to eliminate thermal aging, providing for a low profile, high current inductor.
Specifications: • **Operating Ambient Temperature Range:** 40°C ~ 155°C • **IR Reflow Temperature:** 260°C for 10 seconds max.
• **Frequency Range:** 1kHz ~ 500kHz (HC7 and HC8 Series), up to 2MHz (FP3 Series)

Rated Inductance (µH)	OCL$^{(1)}$ ± 20% (µH)	IRMS$^{(2)}$ Amperes	ISAT$^{(3)}$ Amperes Peak	DCR (Ω) (Typ.)	Digi-Key Part. No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Coiltronics Part No.
FP3 Series												
1.00	1.10	6.26	9.5	11.2	513-1149-1-ND	2.17	1.97	1.47	513-1149-2-ND	1,700	915.00/M	FP3-1R0-R
2.00	2.00	5.40	6.9	15.0	513-1151-1-ND	2.17	1.97	1.47	513-1151-2-ND	1,700	915.00/M	FP3-2R0-R
3.30	3.20	3.63	5.5	30.0	513-1152-1-ND	1.81	1.65	1.23	513-1152-2-ND	1,700	765.00/M	FP3-3R3-R
4.70	4.70	3.23	4.2	40.0	513-1150-1-ND	1.81	1.65	1.23	513-1150-2-ND	1,700	765.00/M	FP3-4R7-R
HC7 Series												
1.0	1.05	20.30	19.6	2.10	513-1164-1-ND	4.72	4.29	3.20	513-1164-2-ND	610	1216.95	HC7-1R0-R
2.2	2.58	13.00	12.5	5.20	513-1166-1-ND	3.62	3.29	2.45	513-1166-2-ND	610	933.30	HC7-2R2-R
4.7	4.81	9.80	9.2	9.00	513-1165-1-ND	3.62	3.29	2.45	513-1165-2-ND	610	933.30	HC7-4R7-R
HC8 Series												
0.39	0.390	28.3	26	1.55	513-1110-1-ND	4.37	3.97	2.96	513-1110-2-ND	800	1476.00	HC8-R39-R
1.2	1.32	16.0	14.4	4.70	513-1109-1-ND	4.37	3.97	2.96	513-1109-2-ND	800	1476.00	HC8-1R2-R

Note (1): Open Circuit Inductance Test Parameters: 100kHz, 0.1Vrms, 0.0 Adc. **Note (2):** IRMS Amperes for approximately ΔT of 40°C above 85°C ambient. **Note (3):** ISAT Amperes Peak for approximately 15% rolloff (@ 20°C), additional rolloff percentages and ISAT values on data sheets.

High Current Power Inductors (SMD)

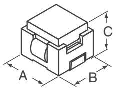

Series	Dimensions (mm) A	B	C
HC1	13	13	10
HC2LP	19.2	19.2	11.18

Features: • Designed for high current, low voltage applications where low DCR and high efficiency are needed.
Specifications:
• **Operating Ambient Temperature Range:** -40°C ~ 85°C • **IR Reflow Temperature:** 260°C for 10 seconds max.
• **Frequency Range:** 1kHz ~ 1MHz

Rated Inductance (µH)	OCL$^{(1)}$ ± 20% (µH)	IRMS$^{(2)}$ Amperes	ISAT$^{(3)}$ Amperes Peak	DCR (Ω) (Typ.)	Digi-Key Part. No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Coiltronics Part No.
HC1 Series												
0.22	0.218	51.42	40.5	0.00034	513-1160-1-ND	3.27	2.97	2.21	513-1160-2-ND	250	345.00	HC1-R22-R
1.0	1.12	28.01	25.4	0.00138	513-1154-1-ND	3.27	2.97	2.21	513-1154-2-ND	250	345.00	HC1-1R0-R
1.7	1.66	22.3	22.2	0.0018	513-1155-1-ND	3.27	2.97	2.21	513-1155-2-ND	250	345.00	HC1-1R7-R
2.3	2.29	22.3	16.7	0.0018	513-1156-1-ND	3.27	2.97	2.21	513-1156-2-ND	250	345.00	HC1-2R3-R
3.6	3.59	16.76	13.4	0.0032	513-1157-1-ND	3.27	2.97	2.21	513-1157-2-ND	250	345.00	HC1-3R6-R
5.1	5.15	12.79	11.2	0.0054	513-1158-1-ND	3.27	2.97	2.21	513-1158-2-ND	250	345.00	HC1-5R1-R
7.8	7.85	12.79	6.7	0.0054	513-1159-1-ND	3.27	2.97	2.21	513-1159-2-ND	250	345.00	HC1-7R8-R
10	10.5	12.79	5.3	0.0054	513-1153-1-ND	3.27	2.97	2.21	513-1153-2-ND	250	345.00	HC1-100-R
HC2LP Series												
2.2	2.00	24.3	31.90	0.0023	513-1161-1-ND	5.11	4.65	—	513-1161-2-ND	130	280.80	HC2LP-2R2-R
4.7	4.55	17.0	21.25	0.0046	513-1162-1-ND	5.11	4.65	—	513-1162-2-ND	130	280.80	HC2LP-4R7-R
6.0	6.00	17.0	16.50	0.0046	513-1163-1-ND	5.11	4.65	—	513-1163-2-ND	130	280.80	HC2LP-6R0-R

Note (1): Open Circuit Inductance Test Parameters: 300kHz, .25Vrms, 0.0 Adc and Isat. **Note (2):** IRMS Amperes for approximately ΔT of 40°C. DC current for an approximate ΔT of 40°C without core loss. Derating is necessary for AC currents. It is recommended that the temperature of the part not exceed 125°C under worst case operating conditions verified in the end application. **Note (3):** ISAT Amperes Peak for approximately 30% rolloff @ 20°C.

Power Over Ethernet Transformers (SMD)

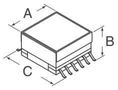

Series	Dimensions (mm) A	B	C
POE	18.0	24.6	10.0

Features: Versatile design allows multiple output variations. For use in IEEE 802.3af compliant applications, UPS, VoiP Phone, Wireless LAN Access points, Bluetooth Access points.
Specifications: • **Operating Temperature:** -40°C ~ 85°C • **Infrared Reflow Temperature:** 260°C for 10 seconds max., 1500VAC isolation primary to secondary • **Open Circuit Inductance Test Parameters:** 100kHz, 0.100Vrms, 0.0Adc for Leakage Inductance: 200kHz, 0.01Vrms, 0.0Adc

Wattage	Inductance (µH)	Output Ratings (No. of Outputs) x (V @ A)	Leakage Inductance Typ. (µH)	Primary Current Peak (Adc)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Size	Pricing	Coiltronics Part No.
13	100	(3) x 3.3V @ 1.35A	1.50	1.60	513-1104-1-ND	9.09	8.26	513-1104-2-ND	140	537.60	POE13W3X3.3-R
13	100	(3) x 5.0V @ 0.90A	1.20	1.60	513-1105-1-ND	9.09	8.26	513-1105-2-ND	140	537.60	POE13W3X5.0-R
13	100	(2) x 12.0V @ 0.60A	1.00	1.70	513-1103-1-ND	9.09	8.26	513-1103-2-ND	140	537.60	POE13W2X12-R
13	100	V1:7.0 @ 1.1A V2:3.3V @ 1.1A V3:1.8V @ 1.1A	1.00	1.70	513-1107-1-ND	9.09	8.26	513-1107-2-ND	140	537.60	POE13W3VERS-R
13	100	V1:5.0V @ 1.6A 2:3.3V @ 1.6	1.20	1.70	513-1106-1-ND	9.09	8.26	513-1106-2-ND	140	537.60	POE13W2VERS-R

VERSA-PAC® Inductors/ Transformers (SMD)

Specifications:

- **Operating Temperature:** -40°C ~ 85°C • **Isolation Voltage:** 500Vdc
- **Frequency Range:** 1MHz • **IR Reflow Temperature:** 260°C for 10 seconds max.

Series	Dimensions (mm) A	B	C
VP5	21.0	28.5	10.8
VP2	16.3	16.8	7.8
VP1 VPH1	12.9	13.0	6.2

VP1, 2 and VPH1 Series

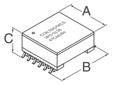

VP5 Series

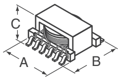

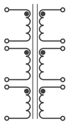

Inductance(1) (BASE) ±20% (µH)	ISAT(2,3) (BASE) Max. (Amperes)	IRMS(2,4) (BASE) Typ. (Amperes)	Volt-µSec(5) (BASE) Max. (µVs)	Digi-Key Part. N o.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Coiltronics Part No.
9.9	1.60	2.08	65.6	513-1193-ND§	13.24	12.03	8.96	—	—	—	VP5-0155-R
10.6	0.76	1.26	33.7	513-1192-1-ND	8.17	7.42	5.52	513-1192-2-ND	300	1035.00	VP2-0216-R
12.2	0.43	0.85	21.8	513-1191-1-ND	6.92	6.29	4.68	513-1191-2-ND	600	1755.00	VP1-0190-R
27.4	0.29	0.55	32.9	513-1194-1-ND	6.92	6.29	4.68	513-1194-2-ND	600	1755.00	VPH1-0190-R

Note (1): LBASE = Nominal Inductance of a single winding. **Note (2):** IBASE = is the lesser of ISAT(BASE) and IRMS(BASE) **Note (3):** Peak current that will result in 30% saturation of the core. This current value assumes that equal current flows in all six windings. Saturation current per winding may be calculated as follows: ISAT = 6 x ISAT(BASE)/Number of windings driven. **Note (4):** IRMS current that results in a surface temperature of approximately 40°C above ambient. The 40°C rise occurs when the specified current flows through each of the six windings. **Note (5):** For multiple windings in series, the volt-µsec TOTAL (µVs) capability varies as the number of windings in series (S): Volt-µsec TOTAL = S x Volt-µsec(BASE). For multiple windings in parallel, the Volt-µsecond TOTAL (µVs) capability is as shown in the table above. **§ *Bulk***

Inductors

Unshielded Drum Core – DU Series

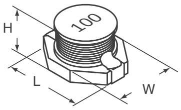

Features: • Drop in replacements for industry prevalent competitor series • High energy storage and low resistance • Ideal for DC-DC buck or boost conversion • Robust temperature deflection to prevent damage during solder reflow **Specification: • Operating Temperature Rating:** -40°C ~ 85°C

Note (A): Nominal Inductance Tested at 100kHz, 100mVrms at 20°C
Note (B): DC current applied to produce a typical 10% drop in inductance
Note (C): DC resistance is maximum at 20°C

Induc-tance µH(A)	Pkg. Size	Tol.	ISAT A(B)	DCR Max. Ω(C)	Dim. (mm) L	W	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	CoEv Part No.
DU6629 Series															
1.0	6629	±20%	2.90	0.050	6.60	4.50	2.92	436-1089-1-ND	1.21	1.09	.91	—	—	—	DU6629-1R0M
4.7			1.50	0.090				436-1092-1-ND	1.21	1.09	.91	—	—	—	DU6629-4R7M
47			0.50	0.640				436-1090-1-ND	1.21	1.09	.91	—	—	—	DU6629-470M
100			0.31	1.270				436-1087-1-ND	1.21	1.09	.91	—	—	—	DU6629-101M
470			0.16	6.600				436-1091-1-ND	1.21	1.09	.91	—	—	—	DU6629-471M
DU1330 Series															
47	1330	±20%	1.00	0.390	12.95	9.40	3.30	436-1096-1-ND	1.33	1.20	1.00	—	—	—	DU1330-470M
470			0.30	4.000				436-1097-1-ND	1.33	1.20	1.00	—	—	—	DU1330-471M
NEW! MGDU2 Series — RoHS Compliant NEW!															
10	1330	±20%	2.40	0.110	12.95	9.40	3.30	436-1140-1-ND	1.45	1.31	1.09	436-1140-2-ND	1,000	435.00	MGDU2-00001
47			1.00	0.390				436-1142-1-ND	1.45	1.31	1.09	436-1142-2-ND	1,000	435.00	MGDU2-00005
100			0.70	0.840				436-1141-1-ND	1.45	1.31	1.09	436-1141-2-ND	1,000	435.00	MGDU2-00007
470			0.30	4.000				436-1143-1-ND	1.45	1.31	1.09	436-1143-2-ND	1,000	435.00	MGDU2-00011
DU1352 Series															
1.0	1352	±20%	9.00	0.0092	12.95	9.40	5.21	436-1101-1-ND	1.27	1.14	.95	436-1101-2-ND	700	266.00	DU1352-1R0M
4.7			5.40	0.0184				436-1104-1-ND	1.27	1.14	.95	—	—	—	DU1352-4R7M
10			3.80	0.0380				436-1098-1-ND	1.35	1.22	1.02	—	—	—	DU1352-100M
47			1.60	0.1400				436-1102-1-ND	1.27	1.14	.95	436-1102-2-ND	700	266.00	DU1352-470M
470			0.50	1.2700				436-1103-1-ND	1.27	1.14	.95	—	—	—	DU1352-471M
1,000			0.30	3.0000				436-1100-1-ND	1.27	1.14	.95	436-1100-2-ND	700	266.00	DU1352-102M
NEW! MGDU3 Series — RoHS Compliant NEW!															
1.0	1352	±20%	9.00	0.0092	12.95	9.40	5.21	436-1146-1-ND	1.40	1.26	1.05	436-1146-2-ND	700	294.00	MGDU3-00004
4.7			5.40	0.0184				436-1149-1-ND	1.40	1.26	1.05	436-1149-2-ND	700	294.00	MGDU3-00003
10			3.80	0.0380				436-1144-1-ND	1.40	1.26	1.05	436-1144-2-ND	700	294.00	MGDU3-00009
47			1.60	0.1400				436-1147-1-ND	1.55	1.40	1.17	436-1147-2-ND	700	325.50	MGDU3-00013
100			1.20	0.2800				436-1145-1-ND	1.45	1.31	1.09	436-1145-2-ND	700	304.50	MGDU3-00015
470			0.50	1.2700				436-1148-1-ND	1.55	1.40	1.17	436-1148-2-ND	700	325.50	MGDU3-00019
DU1311 Series															
10	1311	±20%	8.00	0.040	12.95	9.40	11.43	436-1105-1-ND	1.31	1.18	.99	436-1105-2-ND	250	98.25	DU1311-100M
NEW! MGDU4 Series — RoHS Compliant NEW!															
10	1311	±20%	8.00	0.040	12.95	9.40	11.43	436-1136-1-ND	1.60	1.44	1.20	436-1136-2-ND	250	120.00	MGDU4-00002
47			3.80	0.110				436-1138-1-ND	1.60	1.44	1.20	436-1138-2-ND	250	120.00	MGDU4-00006
100			2.50	0.220				436-1137-1-ND	1.65	1.49	1.24	436-1137-2-ND	250	123.75	MGDU4-00008
470			1.00	0.950				436-1139-1-ND	1.60	1.44	1.20	436-1139-2-ND	250	120.00	MGDU4-00012
DU1971 Series															
1.0	1971	±20%	20.00	0.009	18.54	15.24	7.40	436-1113-1-ND	1.61	1.45	1.21	—	—	—	DU1971-1R0M
10			10.00	0.031				436-1110-1-ND	1.61	1.45	1.21	—	—	—	DU1971-100M
47			4.50	0.086				436-1114-1-ND	1.61	1.45	1.21	—	—	—	DU1971-470M
NEW! MGDU5 Series — RoHS Compliant NEW!															
10	1971	±20%	10.00	0.031	18.54	15.24	7.40	436-1150-1-ND	1.80	1.62	1.35	436-1150-2-ND	250	135.00	MGDU5-00008
47			4.50	0.086				436-1153-1-ND	1.90	1.71	1.43	436-1153-2-ND	250	142.50	MGDU5-00012
100			3.00	0.190				436-1151-1-ND	1.85	1.67	1.39	436-1151-2-ND	250	138.75	MGDU5-00014
470			1.40	0.850				436-1154-1-ND	1.90	1.71	1.43	436-1154-2-ND	250	142.50	MGDU5-00018
1,000			1.00	1.800				436-1152-1-ND	2.00	1.80	1.50	436-1152-2-ND	250	150.00	MGDU5-00025

(Continued)

E

Shielded Drum Core – DS Series

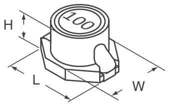

Features: • Drop-in replacements for industry prevalent competitor series • Ideal for DC-DC buck or boost conversion • High energy storage and low resistance • Robust temperature deflection to prevent damage during solder reflow **Specification:** • **Operating Temperature Rating:** -40°C ~ 85°C

Note (A): Nominal Inductance Tested at 100kHz, 100mVrms at 20°C
Note (B): DC current applied to produce a typical 10% drop in inductance
Note (C): DC resistance is maximum at 20°C

Inductance µH^(A)	Pkg. Size	Tol.	ISAT A^(B)	DCR Max. Ω^(C)	Dim. (mm) L	W	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	CoEv Part No.
DS6630 Series															
470	6630	±20%	0.19	1.800	6.60	4.50	2.92	436-1066-1-ND	1.36	1.23	1.02	—	—	—	DS6630-471M
1,000			0.15	3.400				436-1062-1-ND	1.36	1.23	1.02	436-1062-2-ND	2,500	408.00/M	DS6630-102M
10,000			0.02	39.60				436-1063-1-ND	1.36	1.23	1.02	—	—	—	DS6630-103M
DS1976 Series															
10	1976	±20%	7.00	0.040	18.54	15.25	7.62	436-1078-1-ND	1.49	1.35	1.12	—	—	—	DS1976-100M
NEW! MGDS5 Series — RoHS Compliant NEW!															
47	1976	±20%	4.00	0.097	18.54	15.25	7.62	436-1134-1-ND	2.55	2.30	1.91	436-1134-2-ND	250	191.00	MGDS5-00005
100			2.40	0.207				436-1132-1-ND	2.80	2.52	2.10	436-1132-2-ND	250	210.00	MGDS5-00007
470			1.10	1.080				436-1135-1-ND	2.15	1.94	1.62	436-1135-2-ND	250	161.25	MGDS5-00011
1,000			0.80	2.010				436-1133-1-ND	2.55	2.30	1.92	436-1133-2-ND	250	191.25	MGDS5-00013

Shielded Drum Core – DQ Series

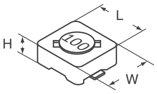

Features: • High energy storage and low resistance • Smaller real estate than other common inductors • Robust temperature deflection to prevent damage during solder reflow • Highly resistive core for EMI suppression applications **Specification:** • **Operating Temperature Rating:** -40°C ~ 85°C

Note (A): Nominal Inductance Tested at 1kHz, 1Vrms at 20°C

Note (B): DC current applied to produce a typical 30% drop from the measured nominal inductance

Note (C): DC resistance is maximum at 20°C

Inductance µH^(A)	Pkg. Size	Tol.	ISAT A^(B)	DCR Max. Ω^(C)	Dim. (mm) L	W	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	CoEv Part No.
DQ6530 Series															
4.7	6530	±20%	1.630	0.080	6.50	6.90	3.00	436-1034-1-ND	1.45	1.31	1.09	—	—	—	DQ6530-4R7M
47			0.50	0.69				436-1033-1-ND	1.24	1.12	.93	—	—	—	DQ6530-470M
100			0.34	1.39				436-1032-1-ND	1.24	1.12	.93	—	—	—	DQ6530-101M
DQ7545 Series															
47	7545	±20%	0.88	0.260	7.50	7.50	4.50	436-1046-1-ND	1.05	.95	.79	—	—	—	DQ7545-470M
100			0.60	0.610				436-1044-1-ND	1.05	.95	.79	—	—	—	DQ7545-101M
NEW! MGDQ4 Series — RoHS Compliant NEW!															
10	7545	±20%	1.84	0.049	7.50	7.50	4.50	436-1129-1-ND	1.20	1.08	.90	436-1129-2-ND	1,000	360.00	MGDQ4-00004
47			0.88	0.260				436-1131-1-ND	1.50	1.35	1.13	436-1131-2-ND	1,000	360.00	MGDQ4-00012
100			0.60	0.610				436-1130-1-ND	1.45	1.31	1.09	436-1130-2-ND	1,000	435.00	MGDQ4-00016
DQ1260 Series															
47	1260	±20%	1.80	0.075	12.80	12.80	6.00	436-1051-1-ND	1.25	1.13	.94	—	—	—	DQ1260-470M
100			1.30	0.160				436-1049-1-ND	1.25	1.13	.94	—	—	—	DQ1260-101M
1,000			0.40	1.530				436-1050-1-ND	1.25	1.13	.94	—	—	—	DQ1260-102M
NEW! MGDQ5 Series — RoHS Compliant NEW!															
10	1260	±20%	4.00	0.025	12.80	12.80	6.00	436-1120-1-ND	1.30	1.17	.98	436-1120-2-ND	650	253.50	MGDQ5-00005
47			1.80	0.075				436-1123-1-ND	1.35	1.22	1.02	436-1123-2-ND	650	263.25	MGDQ5-00013
100			1.30	0.160				436-1121-1-ND	1.35	1.22	1.02	436-1121-2-ND	650	263.25	MGDQ5-00017
1,000			0.40	1.530				436-1122-1-ND	1.30	1.17	.98	436-1122-2-ND	650	253.50	MGDQ5-00029
DQ1280 Series*															
4.7	1280	±20%	13.50	0.016	12.80	12.80	8.00	436-1059-1-ND	1.22	1.10	.92	436-1059-2-ND	300	109.80	DQ1280-4R7M
1,000			0.55	1.820				436-1055-1-ND	1.22	1.10	.92	436-1055-2-ND	300	146.40	DQ1280-102M
NEW! MGDQ6 Series* — RoHS Compliant NEW!															
4.7	1280	±20%	13.50	0.016	12.50	12.50	8.00	436-1128-1-ND	1.40	1.26	1.05	436-1128-2-ND	300	126.00	MGDQ6-00006
10			5.40	0.022				436-1124-1-ND	1.45	1.31	1.09	436-1124-2-ND	300	130.50	MGDQ6-00009
47			2.50	0.100				436-1127-1-ND	1.45	1.31	1.09	436-1127-2-ND	300	130.50	MGDQ6-00017
100			1.70	0.220				436-1125-1-ND	1.80	1.62	1.35	436-1125-2-ND	300	162.00	MGDQ6-00021
1,000			0.55	1.820				436-1126-1-ND	1.55	1.40	1.17	436-1126-2-ND	300	139.50	MGDQ6-00033

* MGDQ6 Series and DQ1280 Series have the same pcb pad layout

Chip Coils Monolithic and Film Type SMD

LQP03T Series

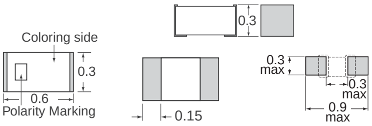

Murata's original thin film technology contributes further to miniaturizing high performance equipment because the size is small and the Q-value is high.

LQP15M Series

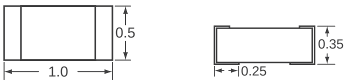

Features: • Tight inductance tolerance • Ultra small size 0402 inductor, low profile and lightest weight in the world, enables miniaturization of mobile telecommunication equipment • Weight: LQP15M Series 0.61mg/pcs. multilayer film type inductor 0.94mg/pcs

LQG15HS Series

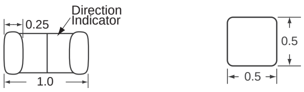

Chip inductors specifically designed for high frequency applications. They are designed to realize stable characteristics in high frequency range applying integrated multilayer process. Integrated multilayer process enables a wide range of inductance values with tight tolerance.

LQM18N Series

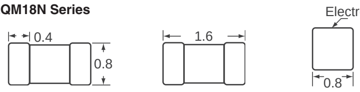

Magnetically shielded chip coils were developed by using original multilayer process technology and magnetic materials. Compact size is suitable for high density mounting. Shielded construction is not affected by interference from peripheral components.

LQG18H Series

Designed to realize stable characteristics in high frequency range applying integrated multilayer process. Monolithic air core.

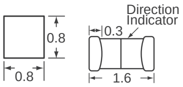

LQM21D Series

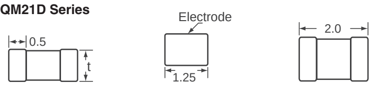

Consists of magnetically shielded chip inductors. It has less than half the DC resistance of our conventional monolithic chip inductors as well as high inductance. Monolithic design.

Part No.	t
LQM21DN4R7N00 to N100N00	0.85 ± 0.2
LQM21DN220N00	1.25 ± 0.2

LQM21F Series

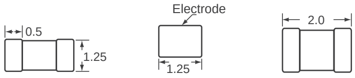

Suitable for power line choke because of its excellent direct current characteristics. The series has larger rated current (60mA at 10 micro H) than conventional rated current. Monolithic ferrite core.

LQM21N Series

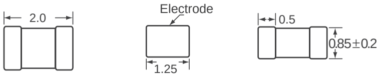

Consists of magnetically shielded chip inductors developed using Murata's original multilayer process technology and magnetic materials. The miniature size of 2.0mm x 1.25mm enables compact design of electric equipment.

Inductance (nH)	Tolerance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape and Reel* Size	Pricing	Murata Part No.
LQP03T Series													
1.0	±0.2nH	500	400	11	0.10 max.	6,000 min.	490-2481-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N0C00D
1.2	±0.2nH	500	280	11	0.13 max.	6,000 min.	490-2482-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N2C00D
1.5	±0.2nH	500	280	11	0.16 max.	6,000 min.	490-2483-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N5C00D
1.8	±0.2nH	500	280	11	0.16 max.	6,000 min.	490-2484-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN1N8C00D
2.2	±0.2nH	500	220	11	0.18 max.	6,000 min.	490-2485-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN2N2C00D
2.7	±0.2nH	500	220	11	0.21 max.	6,000 min.	490-2486-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN2N7C00D
3.3	±0.2nH	500	190	11	0.30 max.	6,000 min.	490-2487-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN3N3C00D
3.9	±0.2nH	500	170	11	0.45 max.	6,000 min.	490-2488-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN3N9C00D
4.7	±5%	500	160	11	0.55 max.	6,000 min.	490-2489-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN4N7J00D
5.6	±5%	500	140	11	0.68 max.	6,000 min.	490-2490-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN5N6J00D
6.8	±5%	500	130	11	0.75 max.	6,000 min.	490-2491-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN6N8J00D
8.2	±5%	500	110	11	0.86 max.	5,500 min.	490-2492-1-ND	.25	2.11	16.88	10,000	73.85/M	LQP03TN8N2J00D
LQP15M Series — Case 0402													
1.0	±0.1nH	500	400	13	0.10 max.	6,000 min.	490-1124-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N0B02D
1.2	±0.1nH	500	390	13	0.10 max.	6,000 min.	490-1125-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N2B02D
1.5	±0.1nH	500	280	13	0.20 max.	6,000 min.	490-1126-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N5B02D
1.8	±0.1nH	500	280	13	0.20 max.	6,000 min.	490-1127-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN1N8B02D
2.2	±0.1nH	500	220	13	0.30 max.	6,000 min.	490-1128-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN2N2B02D
2.7	±0.1nH	500	220	13	0.30 max.	6,000 min.	490-1129-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN2N7B02D
3.3	±0.1nH	500	190	13	0.40 max.	6,000 min.	490-1130-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN3N3B02D
3.9	±0.1nH	500	170	13	0.50 max.	6,000 min.	490-1131-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN3N9B02D
4.7	±0.1nH	500	160	13	0.60 max.	6,000 min.	490-1132-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN4N7B02D
5.6	±0.1nH	500	140	13	0.70 max.	6,000 min.	490-1133-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN5N6B02D
6.8	±0.1nH	500	130	13	0.90 max.	6,000 min.	490-1134-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN6N8B02D
8.2	±0.1nH	500	110	13	1.10 max.	5,500 min.	490-1135-1-ND	.20	1.67	13.36	10,000	58.45/M	LQP15MN8N2B02D
LQG15HS Series — Case 0402													
1.0	±0.3nH	100	300	8	0.07 max.	10,000 min.	490-2610-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N0S02D
1.2	±0.3nH	100	300	8	0.09 max.	6,000 min.	490-2611-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N2S02D
1.5	±0.3nH	100	300	8	0.10 max.	6,000 min.	490-2612-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N5S02D
1.8	±0.3nH	100	300	8	0.10 max.	6,000 min.	490-2613-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS1N8S02D
2.2	±0.3nH	100	300	8	0.12 max.	6,000 min.	490-2614-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS2N2S02D
2.7	±0.3nH	100	300	8	0.15 max.	6,000 min.	490-2615-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS2N7S02D
3.3	±0.3nH	100	300	8	0.17 max.	6,000 min.	490-2616-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS3N3S02D
3.9	±0.3nH	100	300	8	0.18 max.	6,000 min.	490-2617-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS3N9S02D
4.7	±0.3nH	100	300	8	0.18 max.	6,000 min.	490-2618-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS4N7S02D
5.6	±0.3nH	100	300	8	0.20 max.	4,500 min.	490-2619-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS5N6S02D
6.2	±0.3nH	100	300	8	0.22 max.	4,500 min.	490-2620-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS6N2S02D
6.8	±5%	100	300	8	0.24 max.	4,500 min.	490-2621-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS6N8J02D
7.5	±5%	100	300	8	0.24 max.	4,200 min.	490-3456-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS7N5J02D
8.2	±5%	100	300	8	0.24 max.	3,700 min.	490-2622-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS8N2J02D
10	±5%	100	300	8	0.26 max.	3,400 min.	490-2623-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS10NJ02D
12	±5%	100	300	8	0.28 max.	3,000 min.	490-2624-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS12NJ02D
15	±5%	100	300	8	0.32 max.	2,500 min.	490-2625-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS15NJ02D
18	±5%	100	300	8	0.36 max.	2,200 min.	490-2626-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS18NJ02D
22	±5%	100	300	8	0.42 max.	1,900 min.	490-2627-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS22NJ02D
27	±5%	100	300	8	0.46 max.	1,700 min.	490-2628-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS27NJ02D
33	±5%	100	200	8	0.58 max.	1,600 min.	490-2629-1-ND	.09	.74	5.88	10,000	25.73/M	LQG15HS33NJ02D
39	±5%	100	200	8	0.65 max.	1,200 min.	490-2630-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS39NJ02D
47	±5%	100	200	8	0.72 max.	1,000 min.	490-2631-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS47NJ02D
56	±5%	100	200	8	0.82 max.	800 min.	490-2632-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS56NJ02D
68	±5%	100	180	8	0.92 max.	800 min.	490-2633-1-ND	.09	.79	6.32	10,000	27.65/M	LQG15HS68NJ02D
82	±5%	100	150	8	1.20 max.	700 min.	490-2634-1-ND	.11	.88	7.00	10,000	30.63/M	LQG15HS82NJ02D
100	±5%	100	150	8	1.25 max.	600 min.	490-2635-1-ND	.11	.88	7.00	10,000	30.63/M	LQG15HSR10J02D
120	±5%	100	150	8	1.30 max.	600 min.	490-2636-1-ND	.11	.88	7.00	10,000	30.63/M	LQG15HSR12J02D
150	±5%	100	140	8	2.99 max.	550 min.	490-2637-1-ND	.12	.98	7.80	10,000	34.13/M	LQG15HSR15J02D
180	±5%	100	130	8	3.38 max.	500 min.	490-2638-1-ND	.12	.98	7.80	10,000	34.13/M	LQG15HSR18J02D
220	±5%	100	120	8	3.77 max.	450 min.	490-2639-1-ND	.12	.98	7.80	10,000	34.13/M	LQG15HSR22J02D
270	±5%	100	110	8	4.94 max.	400 min.	490-2640-1-ND	.12	.98	7.80	10,000	34.13/M	LQG15HSR27J02D
LQM18N Series — Case 0603													
47	±20%	50	50	10	0.30 max.	260 min.	490-1110-1-ND	.23	1.93	15.44	4,000	67.55/M	LQM18NN47NM00D
100	±10%	25	50	15	0.50 max.	240 min.	490-1111-1-ND	.23	1.93	15.44	4,000	67.55/M	LQM18NNR10K00D
1000	±10%	10	25	35	0.60 max.	75 min.	490-1112-1-ND	.26	2.18	17.40	4,000	76.13/M	LQM18NN1R0K00D
2200	±10%	10	15	35	1.15 max.	50 min.	490-1113-1-ND	.26	2.18	17.40	4,000	76.13/M	LQM18NN2R2K00D
LQG18H Series — Case 0603													
1.2	±0.3nH	100	500	12	0.10 max.	6,000 min.	490-1099-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N2S00D
1.5	±0.3nH	100	500	12	0.10 max.	6,000 min.	490-1100-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N5S00D
1.8	±0.3nH	100	500	12	0.10 max.	6,000 min.	490-1101-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN1N8S00D
2.2	±0.3nH	100	500	12	0.10 max.	6,000 min.	490-1102-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN2N2S00D
2.7	±0.3nH	100	500	12	0.15 max.	6,000 min.	490-1103-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN2N7S00D
3.3	±0.3nH	100	500	12	0.15 max.	6,000 min.	490-1104-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN3N3S00D
3.9	±0.3nH	100	450	12	0.15 max.	6,000 min.	490-1105-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN3N9S00D
4.7	±0.3nH	100	450	12	0.20 max.	6,000 min.	490-1106-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN4N7S00D
5.6	±0.3nH	100	430	12	0.20 max.	5,000 min.	490-1107-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN5N6S00D
6.8	±5%	100	430	12	0.25 max.	5,000 min.	490-1108-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN6N8J00D
8.2	±5%	100	400	12	0.25 max.	4,000 min.	490-1109-1-ND	.21	1.75	14.00	4,000	61.25/M	LQG18HN8N2J00D
LQM21D Series — Case 0805													
4.7µH	±30%	1	30	—	0.30 max.	35 min.	490-1120-1-ND	.26	2.19	17.52	4,000	76.65/M	LQM21DN4R7N00D
10µH	±30%	1	15	—	0.50 max.	24 min.	490-1121-1-ND	.26	2.19	17.52	4,000	76.65/M	LQM21DN100N00D
22µH	±30%	1	13	—	0.65 max.	16 min.	490-1123-1-ND	.26	2.19	17.52	3,000	76.65/M	LQM21DN220N00L
LQM21F Series — Case 0805													
10µH	±30%	1	60	—	0.50±30%	15 min.	490-1122-1-ND	.18	1.51	12.08	3,000	52.85/M	LQM21FN100N00L
LQM21N Series — Case 0805													
0.1µH	±10%	25	250	20	0.26 max.	340 min.	490-1114-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR10K10D
0.22µH	±10%	25	250	20	0.38 max.	220 min.	490-1115-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR22K10D
0.47µH	±10%	25	200	25	0.57 max.	150 min.	490-1116-1-ND	.23	1.88	15.04	4,000	65.80/M	LQM21NNR47K10D
1µH	±10%	10	50	45	0.40 max.	107 min.	490-1117-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN1R0K10D
1.5µH	±10%	10	50	45	0.50 max.	87 min.	490-1118-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN1R5K10D
2.2µH	±10%	10	30	45	0.63 max.	71 min.	490-1119-1-ND	.24	2.03	16.20	4,000	70.88/M	LQM21NN2R2K10D

* For Tape and Reel part number, change 1-ND to 2-ND.

muRata
Innovator in Electronics

Chip Coils Wound Type SMD

RoHS COMPLIANT

Induct-ance (nH)	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR Max. (ohm)	SRF Min. (GHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Size	Pricing	Murata Part No.
LQW15A Series — Pkg 0402													
1.5	±0.5nH	100	1000	10	0.03	18	490-1136-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN1N5D00D
2.7	±0.5nH	100	850	20	0.05	15	490-1137-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN2N7D00D
4.3	±0.2nH	100	750	25	0.07	10	490-1138-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN4N3C00D
4.7	±0.2nH	100	750	25	0.07	8	490-1139-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN4N7C00D
5.1	±0.5nH	100	600	25	0.12	8	490-1140-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN5N1D00D
6.2	±0.5nH	100	700	25	0.09	8	490-1141-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN6N2D00D
6.8	±5%	100	700	25	0.09	6	490-1142-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN6N8J00D
7.5	±5%	100	570	25	0.13	6	490-1143-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN7N5J00D
8.2	±5%	100	540	25	0.14	5.5	490-1144-1-ND	.44	.37	.30	10,000	129.15/M	LQW15AN8N2J00D
9.1	±5%	100	540	25	0.14	5.5	490-1145-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN9N1J00D
10	±5%	100	500	25	0.17	5.5	490-1146-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN10NJ00D
12	±5%	100	500	30	0.14	5.5	490-1147-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN12NJ00D
15	±5%	100	460	30	0.16	5	490-1148-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN15NJ00D
18	±5%	100	370	25	0.27	4.5	490-1149-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN18NJ00D
22	±5%	100	310	25	0.30	4	490-1150-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN22NJ00D
27	±5%	100	280	25	0.52	3.5	490-1151-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN27NJ00D
33	±5%	100	260	25	0.63	3.2	490-1152-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN33NJ00D
39	±5%	100	250	25	0.70	3	490-1153-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN39NJ00D
47	±5%	100	210	25	1.08	2.9	490-1154-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN47NJ00D
56	±5%	100	200	25	1.17	2.8	490-1155-1-ND	.43	.36	.29	10,000	126.00/M	LQW15AN56NJ00D
68	±5%	100	140	20	1.96	2.5	490-1156-1-ND	.44	.37	.30	10,000	129.15/M	LQW15AN68NJ00D
82	±5%	100	130	20	2.24	2.3	490-1157-1-ND	.44	.37	.30	10,000	129.15/M	LQW15AN82NJ00D

Induct-ance (nH)	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR Max. (ohm)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Size	Pricing	Murata Part No.
LQW18A Series — Pkg 0603													
2.2	±0.5nH	100	700	16	0.049	6,000	490-1158-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN2N2D00D
3.6	±0.5nH	100	850	25	0.059	6,000	490-1159-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN3N6D00D
3.9	±0.5nH	100	850	35	0.059	6,000	490-1160-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN3N9D00D
4.3	±0.5nH	100	850	35	0.059	6,000	490-1161-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN4N3D00D
4.7	±0.5nH	100	850	35	0.059	6,000	490-1162-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN4N7D00D
5.6	±0.5nH	100	750	35	0.082	6,000	490-1164-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN5N6D00D
6.2	±0.5nH	100	750	35	0.082	6,000	490-1163-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN6N2D00D
6.8	+0.5nH	100	750	35	0.082	6,000	490-1165-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN6N8D00D
7.5	±0.5nH	100	750	35	0.082	6,000	490-1166-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN7N5D00D
8.2	±0.5nH	100	650	35	0.11	6,000	490-1167-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN8N2D00D
8.7	±0.5nH	100	650	35	0.11	6,000	490-1168-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN8N7D00D
10	±5%	100	650	35	0.11	6,000	490-1169-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN10NJ00D
12	±5%	100	600	35	0.13	6,000	490-1170-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN12NJ00D
15	±5%	100	600	40	0.13	6,000	490-1171-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN15NJ00D
18	±5%	100	550	40	0.16	5,500	490-1172-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN18NJ00D
22	±5%	100	500	40	0.17	4,600	490-1173-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN22NJ00D
27	±5%	100	440	40	0.21	3,700	490-1174-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN27NJ00D
33	±5%	100	420	40	0.23	3,200	490-1175-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN33NJ00D
39	±5%	100	400	40	0.26	2,800	490-1176-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN39NJ00D
56	±5%	100	360	38	0.35	2,400	490-1177-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN56NJ00D
68	±5%	100	340	38	0.38	2,200	490-1178-1-ND	.39	.33	.27	4,000	115.15/M	LQW18AN68NJ00D
100	±5%	100	220	34	0.68	1,800	490-1179-1-ND	.39	.33	.27	4,000	115.15/M	LQW18ANR10J00D
120	±5%	100	180	32	1.3	1,600	490-1180-1-ND	.39	.33	.27	4,000	115.15/M	LQW18ANR12J00D
270	±5%	100	110	30	3.4	960	490-1181-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR27J00D
330	±5%	100	85	30	5.5	800	490-1182-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR33J00D
390	±5%	100	80	30	6.2	800	490-1183-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR39J00D
470	±5%	100	75	30	7.0	700	490-1184-1-ND	.43	.36	.29	4,000	126.00/M	LQW18ANR47J00D

Induct-ance (µH)	Toler-ance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Size	Pricing	Murata Part No.
LQH43C Series													
1.0	±20%	1	1080	—	0.08 max.	100	490-2514-1-ND	.64	.54	.43	500	93.10	LQH43CN1R0M03L
2.2	±20%	1	900	—	0.11 max.	60	490-2515-1-ND	.64	.54	.43	500	93.10	LQH43CN2R2M03L
3.3	±20%	1	800	—	0.13 max.	47	490-2516-1-ND	.64	.54	.43	500	93.10	LQH43CN3R3M03L
4.7	±20%	1	750	—	0.15 max.	35	490-2517-1-ND	.64	.54	.43	500	93.10	LQH43CN4R7M03L
6.8	±20%	1	720	—	0.20 max.	30	490-2518-1-ND	.64	.54	.43	500	93.10	LQH43CN6R8M03L
10	±10%	1	650	—	0.24 max.	23	490-2519-1-ND	.64	.54	.43	500	93.10	LQH43CN100K03L
33	±10%	1	310	—	1.0 max.	12	490-2520-1-ND	.64	.54	.43	500	93.10	LQH43CN330K03L
47	±10%	1	280	—	1.1 max.	10	490-2521-1-ND	.64	.54	.43	500	93.10	LQH43CN470K03L
68	±10%	1	220	—	1.7 max.	8.4	490-2522-1-ND	.64	.54	.43	500	93.10	LQH43CN680K03L
330	±10%	1	100	—	6.8 max.	3.6	490-2523-1-ND	.67	.56	.45	500	97.65	LQH43CN331K03L
470	±10%	1‡	90	—	8.5 max.	3.0	490-2524-1-ND	.67	.56	.45	500	97.65	LQH43CN471K03L
LQH43M Series													
3.9	±20%	1	500	20	0.38 max.	41	490-2525-1-ND	.79	.66	.53	500	114.89	LQH43MN3R9M03L
5.6	±10%	1	500	30	0.47 max.	33	490-2526-1-ND	.79	.66	.53	500	114.89	LQH43MN5R6K03L
27	±10%	1	300	35	1.1 max.	14	490-2527-1-ND	.63	.53	.43	500	92.58	LQH43MN270K03L
82	±10%	1	170	35	2.2 max.	7.5	490-2528-1-ND	.63	.53	.43	500	92.58	LQH43MN820K03L
150	±10%	1	130	40	3.7 max.	5.5	490-2529-1-ND	.63	.53	.43	500	92.58	LQH43MN151K03L

‡ Test Freq. is KHz   * For Tape and Reel part number, change 1-ND to 2-ND.

LQW15A Series

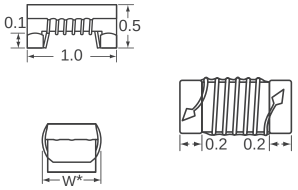

*W: 0.6±0.1 (1.5-22nH), 0.5±0.1 (27-56nH)

Consists of air core chip coil using a miniature alumina core. Has high Q value and high self resonant frequency in high frequency range. Suitable for high frequency circuits which are used in telecommunication equipment.

LQW18A Series

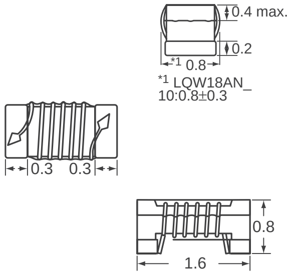

Horizontal winding structure enables tight inductance. High self resonant frequency realizes high-Q value and stable inductance at high frequency. Low DC resistance design is ideal for low loss, high output and low power consumption.

LQH43C Series

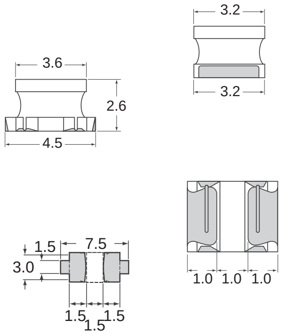

Consists of miniature chip inductors with low DC resistance, high current capacity, and high impedance characteristics. It is suitable for use as choke coil in DC power supply circuits.

LQH43M Series

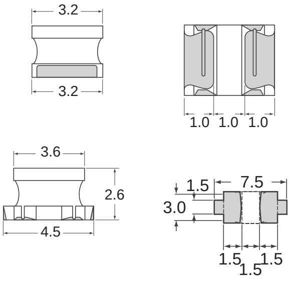

Consists of winding type chip coils for general use by Murata's original auto winding technology and ferrite core. High Q value at high frequency and low DC resistance.

(Continued)

Chip Coils Wound Type SMD *(Cont.)*

Inductance (µH)	Tolerance	Test Freq. (MHz)	Rated Current (mA)	Q (Min.)	DCR (ohm)	SRF (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Size	Pricing	Murata Part No.
LQH32M Series													
1.0	±20%	1	445	20	0.5 max.	100	490-2500-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN1R0M23L
2.2	±10%	1	370	20	0.8 max.	50	490-2501-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN2R2K23L
4.7	±10%	1	270	20	1.2 max.	31	490-2502-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN4R7K23L
6.8	±10%	1	240	20	1.5 max.	25	490-2503-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN6R8K23L
8.2	±10%	1	225	20	1.6 max.	23	490-2504-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN8R2K23L
10	±5%	1	190	35	1.8 max.	20	490-2505-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN100J23L
22	±5%	1	150	35	2.8 max.	14	490-2506-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN220J23L
33	±5%	1	115	40	3.5 max.	12	490-2507-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN330J23L
47	±5%	1	100	40	4.3 max.	11	490-2508-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN470J23L
150	±5%	1	70	40	9.3 max.	7	490-2509-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN151J23L
270	±5%	1	65	40	12.5 max.	5	490-2510-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN271J23L
330	±5%	1	65	40	13.0 max.	5	490-2511-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN331J23L
390	±5%	1	50	50	22.0 max.	5	490-2512-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN391J23L
560	±5%	1‡	40	50	28.0 max.	5	490-2513-1-ND	.39	.33	.26	2,000	113.05/M	LQH32MN561J23L
LQH32C Series													
1.0	±20%	1	800	—	0.06±30%	96	490-2493-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN1R0M23L
2.2	±20%	1	600	—	0.13±30%	64	490-2494-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN2R2M23L
4.7	±20%	1	450	—	0.2±30%	43	490-2495-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN4R7M23L
10	±10%	1	300	—	0.44±30%	26	490-2496-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN100K23L
47	±10%	1	170	—	1.3±30%	15	490-2497-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN470K23L
330	±10%	1	60	—	10±30%	5.6	490-2498-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN331K23L
470	±10%	1‡	60	—	19±30%	5	490-2499-1-ND	.39	.33	.26	2,000	113.05/M	LQH32CN471K23L

‡ Test Freq. is KHz   * For Tape and Reel part number, change 1-ND to 2-ND.

LQH32M Series

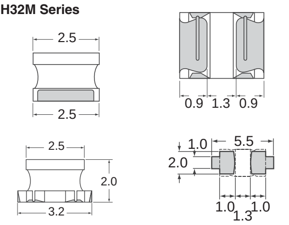

Consists of miniature chip inductors wound on a special ferrite core. High Q value at high frequency and low DC resistance.

LQH32C Series

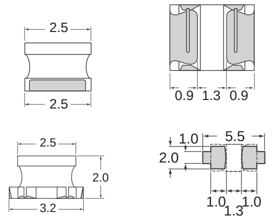

Consists of miniature chip coils with low DC resistance, high current capacity, and high impedance characteristics. Features are possible by the development of Murata's automatic winding techniques. Excellent for use as power supply line choke coils.

Common Mode Choke Coils Wound Type, Film Type and Film Type Arrays

DLW21H Series: Excellent noise suppression for limited board space applications. Suitable for differential signal line like USB2.0, IEEE1394 and LVDS. DLW21H does not provide distortion to high speed signal transmission due to its high coupling. (USB2.0:DLW21HN900SQ2). These parts are lead free.

DLW31S Series: High common mode impedance at high frequency provides excellent noise suppression performance. DLW31S series enables noise suppression for differential signal line without distortion in high speed signal transmission due to its high coupling. Lead is not contained in the product. Small dimension enables higher density mounting.

DLW5BS Series: High performance wound type chip common mode choke coil. Its high impedance characteristic enables great noise suppression, but it does not damage high speed signal due to low normal mode impedance.

DLP31S Series: Has excellent performance at high frequency range. Suitable for differential signal line like USB, because DLP31S does not provide distortion to high speed signal transmission due to its high coupling (coupling coefficient: 0.98 minimum)

DLP31D Series: Utilizing ferrite materials and thin film technology, this common mode choke coil array has high impedance characteristics all packaged in a small case size. 2 components are included in 3.2 x 1.6mm. DLP31D can suppress common mode noise without damage to signal wave.

DLW21H Series

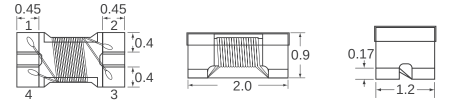

DLW31S Series

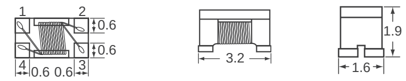

DLW5BS Series

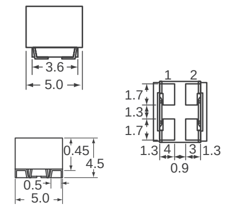

DLP31S Series

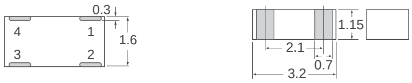

DLP31D Series

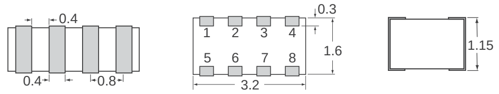

Common Mode Impedance (at 100MHz) (ohm)	Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (min.) (M ohm)	Withstanding Voltage (Vdc)	DC Resistance (ohm)	Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Murata Part No.
DLW21H Series — Wound Type													
67	330	50	10	125	0.35 max.	490-1063-1-ND	.60	.52	.48	490-1063-2-ND	3,000	276.50/M	DLW21HN670SQ2L
90	330	50	10	125	0.35 max.	490-1064-1-ND	.60	.52	.48	490-1064-2-ND	3,000	276.50/M	DLW21HN900SQ2L
120	280	50	10	125	0.45 max.	490-1065-1-ND	.60	.52	.48	490-1065-2-ND	3,000	276.50/M	DLW21HN121SQ2L
180	250	50	10	125	0.50 max.	490-1066-1-ND	.60	.52	.48	490-1066-2-ND	3,000	276.50/M	DLW21HN181SQ2L
DLW31S Series — Wound Type													
2200 (Typ.)	200	50	10	125	1.2	490-1070-1-ND	1.07	.93	.86	490-1070-2-ND	2,000	498.75/M	DLW31SN222SQ2L
1000 (Typ.)	230	50	10	125	1.0	490-1069-1-ND	1.07	.93	.86	490-1069-2-ND	2,000	498.75/M	DLW31SN102SQ2L
600 (Typ.)	260	50	10	125	0.8	490-1068-1-ND	1.07	.93	.86	490-1068-2-ND	2,000	498.75/M	DLW31SN601SQ2L
90 (Typ.)	370	50	10	125	0.3	490-1067-1-ND	1.07	.93	.86	490-1067-2-ND	2,000	498.75/M	DLW31SN900SQ2L
DLW5BS Series — Wound Type													
1000 (Typ.)	1500	50	10	125	0.06	490-1072-1-ND	1.67	1.44	1.33	490-1072-2-ND	400	310.10	DLW5BSN102SQ2L
350 (Typ.)	2000	50	10	125	0.04	490-1071-1-ND	1.67	1.44	1.33	490-1071-2-ND	400	310.10	DLW5BSN351SQ2L
DLP31S Series — Film Type													
120	100	16	100	40	2.0 max.	490-2479-1-ND	1.46	1.26	1.17	490-2479-2-ND	3,000	677.25/M	DLP31SN121SL2L
550	100	16	100	40	3.6 max.	490-2480-1-ND	1.46	1.26	1.17	490-2480-2-ND	3,000	677.25/M	DLP31SN551SL2L
DLP31D Series — Film Type Arrays													
90	160	10	100	25	1.1 max.	490-2474-1-ND	1.46	1.27	1.17	490-2474-2-ND	3,000	678.83/M	DLP31DN900ML4L
130	120	10	100	25	1.6 max.	490-2475-1-ND	1.46	1.27	1.17	490-2475-2-ND	3,000	678.83/M	DLP31DN131ML4L
200	100	10	100	25	2.2 max.	490-2476-1-ND	1.46	1.27	1.17	490-2476-2-ND	3,000	678.83/M	DLP31DN201ML4L
320	80	10	100	25	3.5 max.	490-2477-1-ND	1.46	1.27	1.17	490-2477-2-ND	3,000	678.83/M	DLP31DN321ML4L
440	70	10	100	25	4.3 max.	490-2478-1-ND	1.46	1.27	1.17	490-2478-2-ND	3,000	678.83/M	DLP31DN441ML4L

Panasonic®

Surface Mount Inductors

Non Wound and Wire Wound type chip inductors for automatic and high-density mounting.

Features: • High Q • Good for mounting • Wide availability range (1.0nH ~ 1000µH) • Stable L-value in any mounting direction (non winding type)

Recommended Applications: • Portable telephones, Wireless Communication equipment (W-LAN, BT), PDA, Camcorder, DSC, Various modules, HIC, TV, VTR, PC peripherals

Item / Styles / Type	Non Wound Type		Wire Wound Type					
	F 0402 (1005)	E 0603 (1608)	K 0402 (1005)	J 0603 (1608)	D 0805 (2012)	C 1008 (2520)	A 1210 (3225)	B 1812 (4532)
Non Magnetic Core	ELJRF	ELJRE	ELJNK	—	ELJND	ELJNC	ELJNA	—
Higher Q Type	ELFQF	—	—	ELJFJ	—	—	—	—
Regular	—	—	—	ELJFJ	ELJFD	ELJFC	ELJFA	ELJFB
Shield	—	—	—	—	—	ELJSC	ELJSA	—
High Power	ELJPF	ELJPE	—	—	—	ELJPC	ELJPA	ELJPB
Low DC Resistance	—	—	—	—	—	—	ELJEA	—

Fig. 1 - 0402 (1005)

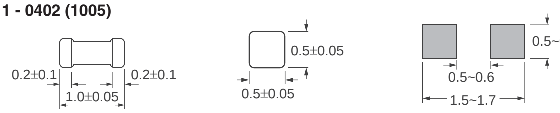

RF Type (Non-winding design)**:** • High Q • High self-resonant frequency • Non Polarity
QF Type: • High Q • Lead-Free
PF Type: • High power type • Stable for power line as choke coil

Fig. 2 - 0402 (1005)

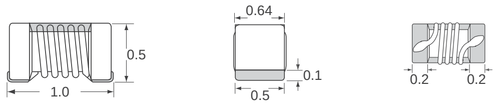

NK Type: • Wire wound type • High self-resonant frequency • High Q

Fig. 3 - 0603 (1608)

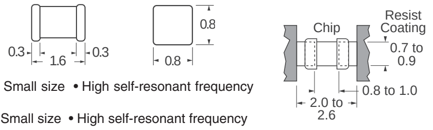

RE Type (Non-winding design): • Small size • High self-resonant frequency • Tight tolerance
PE Type (Non-winding design): • Small size • High self-resonant frequency

Fig. 4 - 0603 (1608)

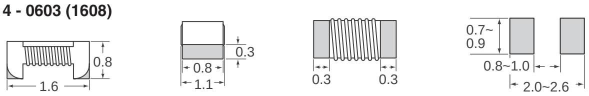

NJ Type: • Wire wound type • High self-resonant frequency

Fig. 5 - 0805 (2012)

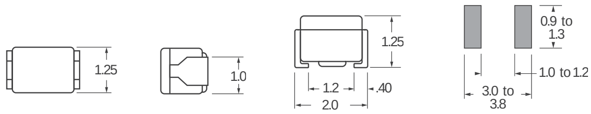

ND Type: • High Q • High self-resonant frequency **FD Type:** • High Q • Standard version of ND Type

Fig. 6 - 1008 (2520)

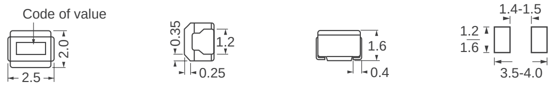

NC Type: • Low inductance, tight tolerance and small size • Suitable for high-frequency circuits • Coreless type • L is stable with respect to temperature and humidity **FC/SC Type:** • Smallest of the coil type inductors • Suitable for a variety of small processing circuits • SC Type is equipped with a magnetic shield function **PC Type:** • High rated DC current • Low DC resistance • Suitable for power circuits

Fig. 7 - 1210 (3225)

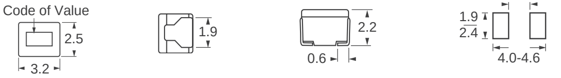

FA Type: • Chip inductor for general use • Compact size with a wide inductance range **NA Type:** • Coreless Type • L is stable with respect to temperature and humidity suitable for high-frequency circuits **SA Type:** • Use of ferrite resin giving it an additional function of magnetic shield • Compact size with high inductance **PA Type:** • High power • High rated DC current • Suitable for power line as choke coil **EA Type:** • Low DC resistance

Fig. 8 - 1812 (4532)

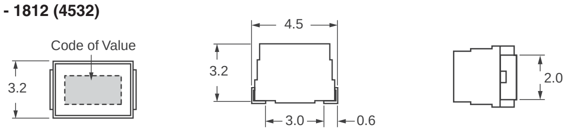

FB and PB Type: • Chip inductor for general use • High inductance

Inductance	Tolerance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T/R Pricing 10,000	Panasonic Part No.
Fig. 1, 0402 (1005) — Type RF (2% Tolerance) — RoHS Compliant														
1.0nH	±0.2nH	8	—	100	6000	0.05	400	PCD1898CT-ND	.12	.96	7.56	PCD1898TR-ND	41.00/M	ELJ-RF1N0ZFB
1.2nH	±0.2nH	8	—	100	6000	0.06	400	PCD1899CT-ND	.12	.96	7.56	PCD1899TR-ND	41.00/M	ELJ-RF1N2ZFB
1.5nH	±0.2nH	8	—	100	6000	0.07	400	PCD1900CT-ND	.12	.96	7.56	PCD1900TR-ND	41.00/M	ELJ-RF1N5ZFB
1.8nH	±0.2nH	8	—	100	6000	0.08	400	PCD1901CT-ND	.12	.96	7.56	PCD1901TR-ND	41.00/M	ELJ-RF1N8ZFB
2.2nH	±0.2nH	8	—	100	6000	0.09	400	PCD1902CT-ND	.12	.96	7.56	PCD1902TR-ND	41.00/M	ELJ-RF2N2ZFB
2.7nH	±0.2nH	8	—	100	5500	0.10	400	PCD1903CT-ND	.12	.96	7.56	PCD1903TR-ND	41.00/M	ELJ-RF2N7ZFB
3.3nH	±0.2nH	8	—	100	5500	0.12	400	PCD1904CT-ND	.12	.96	7.56	PCD1904TR-ND	41.00/M	ELJ-RF3N3ZFB
3.9nH	±0.2nH	8	—	100	5200	0.15	360	PCD1905CT-ND	.12	.96	7.56	PCD1905TR-ND	41.00/M	ELJ-RF3N9ZFB
4.7nH	±0.2nH	8	—	100	4800	0.17	360	PCD1906CT-ND	.12	.96	7.56	PCD1906TR-ND	41.00/M	ELJ-RF4N7ZFB
5.6nH	±0.2nH	8	—	100	4600	0.19	340	PCD1907CT-ND	.12	.96	7.56	PCD1907TR-ND	41.00/M	ELJ-RF5N6ZFB
6.8nH	±0.2nH	8	—	100	4000	0.30	320	PCD1908CT-ND	.12	.96	7.56	PCD1908TR-ND	41.00/M	ELJ-RF6N8ZFB
8.2nH	±0.2nH	8	—	100	3500	0.35	320	PCD1909CT-ND	.12	.96	7.56	PCD1909TR-ND	41.00/M	ELJ-RF8N2ZFB
10nH	±2%	8	—	100	2800	0.41	320	PCD1910CT-ND	.12	.96	7.56	PCD1910TR-ND	41.00/M	ELJ-RF10NGFB
12nH	±2%	8	—	100	2800	0.45	320	PCD1911CT-ND	.12	.96	7.56	PCD1911TR-ND	41.00/M	ELJ-RF12NGFB
15nH	±2%	8	—	100	2500	0.60	240	PCD1912CT-ND	.12	.96	7.56	PCD1912TR-ND	41.00/M	ELJ-RF15NGFB
18nH	±2%	8	—	100	2200	0.70	240	PCD1913CT-ND	.12	.96	7.56	PCD1913TR-ND	41.00/M	ELJ-RF18NGFB
22nH	±2%	8	—	100	2000	0.80	200	PCD1914CT-ND	.12	.96	7.56	PCD1914TR-ND	41.00/M	ELJ-RF22NGFB
27nH	±2%	8	—	100	1800	1.20	200	PCD1915CT-ND	.12	.96	7.56	PCD1915TR-ND	41.00/M	ELJ-RF27NGFB
33nH	±2%	8	—	100	1800	1.40	170	PCD1916CT-ND	.12	.96	7.56	PCD1916TR-ND	41.00/M	ELJ-RF33NGFB
39nH	±2%	8	—	100	1800	1.70	150	PCD1917CT-ND	.12	.96	7.56	PCD1917TR-ND	41.00/M	ELJ-RF39NGFB
47nH	±2%	8	—	100	1800	2.10	140	PCD1918CT-ND	.12	.96	7.56	PCD1918TR-ND	41.00/M	ELJ-RF47NGFB
56nH	±2%	8	—	100	1500	2.50	130	PCD1919CT-ND	.12	.96	7.56	PCD1919TR-ND	41.00/M	ELJ-RF56NGFB
68nH	±2%	8	—	100	1500	4.50	120	PCD1920CT-ND	.12	.96	7.56	PCD1920TR-ND	41.00/M	ELJ-RF68NGFB
82nH	±2%	8	—	100	1400	4.50	110	PCD1921CT-ND	.12	.96	7.56	PCD1921TR-ND	41.00/M	ELJ-RF82NGFB
100nH	±2%	8	—	100	1200	5.50	90	PCD1922CT-ND	.12	.96	7.56	PCD1922TR-ND	41.00/M	ELJ-RFR10GFB
Fig. 1, 0402 (1005) — Type RF (5% Tolerance) — RoHS Compliant														
1.0nH	±0.3nH	8	—	100	6000	0.05	400	PCD1923CT-ND	.08	.68	5.36	PCD1923TR-ND	29.00/M	ELJ-RF1N0DFB
1.2nH	±0.3nH	8	—	100	6000	0.06	400	PCD1924CT-ND	.08	.68	5.36	PCD1924TR-ND	29.00/M	ELJ-RF1N2DFB
1.5nH	±0.3nH	8	—	100	6000	0.07	400	PCD1925CT-ND	.08	.68	5.36	PCD1925TR-ND	29.00/M	ELJ-RF1N5DFB
1.8nH	±0.3nH	8	—	100	6000	0.08	400	PCD1926CT-ND	.08	.68	5.36	PCD1926TR-ND	29.00/M	ELJ-RF1N8DFB
2.2nH	±0.3nH	8	—	100	6000	0.09	400	PCD1927CT-ND	.08	.68	5.36	PCD1927TR-ND	29.00/M	ELJ-RF2N2DFB
2.7nH	±0.3nH	8	—	100	5500	0.10	400	PCD1928CT-ND	.08	.68	5.36	PCD1928TR-ND	29.00/M	ELJ-RF2N7DFB
3.3nH	±0.3nH	8	—	100	5500	0.12	400	PCD1929CT-ND	.08	.68	5.36	PCD1929TR-ND	29.00/M	ELJ-RF3N3DFB
3.9nH	±0.3nH	8	—	100	5200	0.15	360	PCD1930CT-ND	.08	.68	5.36	PCD1930TR-ND	29.00/M	ELJ-RF3N9DFB
4.7nH	±0.3nH	8	—	100	4800	0.17	360	PCD1931CT-ND	.08	.68	5.36	PCD1931TR-ND	29.00/M	ELJ-RF4N7DFB
5.6nH	±0.3nH	8	—	100	4600	0.19	340	PCD1932CT-ND	.08	.68	5.36	PCD1932TR-ND	29.00/M	ELJ-RF5N6DFB
6.8nH	±5%	8	—	100	4000	0.30	320	PCD1933CT-ND	.08	.68	5.36	PCD1933TR-ND	29.00/M	ELJ-RF6N8JFB
8.2nH	±5%	8	—	100	3500	0.35	320	PCD1934CT-ND	.08	.68	5.36	PCD1934TR-ND	29.00/M	ELJ-RF8N2JFB
10nH	±5%	8	—	100	2800	0.41	320	PCD1935CT-ND	.08	.68	5.36	PCD1935TR-ND	29.00/M	ELJ-RF10NJFB
12nH	±5%	8	—	100	2800	0.45	320	PCD1936CT-ND	.08	.68	5.36	PCD1936TR-ND	29.00/M	ELJ-RF12NJFB
15nH	±5%	8	—	100	2500	0.60	240	PCD1937CT-ND	.08	.68	5.36	PCD1937TR-ND	29.00/M	ELJ-RF15NJFB
18nH	±5%	8	—	100	2200	0.70	240	PCD1938CT-ND	.08	.68	5.36	PCD1938TR-ND	29.00/M	ELJ-RF18NJFB
22nH	±5%	8	—	100	2000	0.80	200	PCD1939CT-ND	.08	.68	5.36	PCD1939TR-ND	29.00/M	ELJ-RF22NJFB
27nH	±5%	8	—	100	1800	1.20	200	PCD1940CT-ND	.08	.68	5.36	PCD1940TR-ND	29.00/M	ELJ-RF27NJFB
33nH	±5%	8	—	100	1800	1.40	170	PCD1941CT-ND	.08	.68	5.36	PCD1941TR-ND	29.00/M	ELJ-RF33NJFB

(Continued)

Panasonic Surface Mount Inductors *(Cont.)*

Inductance	Tolerance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	T/R Pricing	Panasonic Part No.
									1	10	100		10,000	
39nH	±5%	8	—	100	1800	1.70	150	PCD1942CT-ND	.08	.68	5.36	PCD1942TR-ND	29.00/M	ELJ-RF39NJFB
47nH	±5%	8	—	100	1800	2.10	140	PCD1943CT-ND	.08	.68	5.36	PCD1943TR-ND	29.00/M	ELJ-RF47NJFB
56nH	±5%	8	—	100	1500	2.50	130	PCD1944CT-ND	.08	.68	5.36	PCD1944TR-ND	29.00/M	ELJ-RF56NJFB
68nH	±5%	8	—	100	1500	4.50	120	PCD1945CT-ND	.08	.68	5.36	PCD1945TR-ND	29.00/M	ELJ-RF68NJFB
82nH	±5%	8	—	100	1400	4.50	110	PCD1946CT-ND	.08	.68	5.36	PCD1946TR-ND	29.00/M	ELJ-RF82NJFB
100nH	±5%	8	—	100	1200	5.50	90	PCD1947CT-ND	.08	.68	5.36	PCD1947TR-ND	29.00/M	ELJ-RFR10JFB
Fig. 1, 0402 (1005) — Type RF (5% Tolerance)														
1.0nH	±0.3nH	8	21	100	6000	0.05	400	PCD1264CT-ND†	.11	.93	7.29	PCD1264TR-ND	40.00/M	ELJ-RF1N0DF
1.2nH	±0.3nH	8	21	100	6000	0.06	400	PCD1265CT-ND†	.11	.93	7.29	PCD1265TR-ND	40.00/M	ELJ-RF1N2DF
1.5nH	±0.3nH	8	21	100	6000	0.07	400	PCD1266CT-ND†	.11	.93	7.29	PCD1266TR-ND	40.00/M	ELJ-RF1N5DF
1.8nH	±0.3nH	8	21	100	6000	0.08	400	PCD1267CT-ND†	.11	.93	7.29	PCD1267TR-ND	40.00/M	ELJ-RF1N8DF
2.2nH	±0.3nH	8	21	100	6000	0.09	400	PCD1268CT-ND†	.11	.93	7.29	PCD1268TR-ND	40.00/M	ELJ-RF2N2DF
2.7nH	±0.3nH	8	21	100	5500	0.10	400	PCD1269CT-ND†	.11	.93	7.29	PCD1269TR-ND	40.00/M	ELJ-RF2N7DF
3.3nH	±0.3nH	7	21	100	5500	0.12	400	PCD1270CT-ND†	.11	.93	7.29	PCD1270TR-ND	40.00/M	ELJ-RF3N3DF
3.9nH	±0.3nH	7	20	100	5200	0.15	360	PCD1271CT-ND†	.11	.93	7.29	PCD1271TR-ND	40.00/M	ELJ-RF3N9DF
4.7nH	±0.3nH	7	20	100	4800	0.17	360	PCD1272CT-ND†	.11	.93	7.29	PCD1272TR-ND	40.00/M	ELJ-RF4N7DF
5.6nH	±0.3nH	7	20	100	4600	0.19	340	PCD1273CT-ND†	.11	.93	7.29	PCD1273TR-ND	40.00/M	ELJ-RF5N6DF
6.8nH	5%	7	19	100	4000	0.30	320	PCD1274CT-ND†	.11	.93	7.29	PCD1274TR-ND	40.00/M	ELJ-RF6N8JF
8.2nH	5%	7	19	100	3500	0.35	320	PCD1275CT-ND†	.11	.93	7.29	PCD1275TR-ND	40.00/M	ELJ-RF8N2JF
10.0nH	5%	7	19	100	2800	0.41	320	PCD1276CT-ND†	.11	.93	7.29	PCD1276TR-ND	40.00/M	ELJ-RF10NJF
12.0nH	5%	7	19	100	2800	0.45	320	PCD1277CT-ND†	.11	.93	7.29	PCD1277TR-ND	40.00/M	ELJ-RF12NJF
15.0nH	5%	7	19	100	2500	0.60	240	PCD1278CT-ND†	.11	.93	7.29	PCD1278TR-ND	40.00/M	ELJ-RF15NJF
18.0nH	5%	7	19	100	2200	0.70	240	PCD1279CT-ND†	.11	.93	7.29	PCD1279TR-ND	40.00/M	ELJ-RF18NJF
22.0nH	5%	7	19	100	2000	0.80	200	PCD1280CT-ND†	.11	.93	7.29	PCD1280TR-ND	40.00/M	ELJ-RF22NJF
27.0nH	5%	7	19	100	1800	1.20	200	PCD1281CT-ND†	.11	.93	7.29	PCD1281TR-ND	40.00/M	ELJ-RF27NJF
33.0nH	5%	7	18	100	1800	1.40	170	PCD1282CT-ND†	.11	.93	7.29	PCD1282TR-ND	40.00/M	ELJ-RF33NJF
39.0nH	5%	7	18	100	1800	1.70	150	PCD1283CT-ND†	.11	.93	7.29	PCD1283TR-ND	40.00/M	ELJ-RF39NJF
47.0nH	5%	7	—	100	1800	2.10	140	PCD1326CT-ND	.11	.93	7.29	PCD1326TR-ND	40.00/M	ELJ-RF47NJF
56.0nH	5%	7	—	100	1500	2.50	130	PCD1327CT-ND	.11	.93	7.29	PCD1327TR-ND	40.00/M	ELJ-RF56NJF
68.0nH	5%	7	—	100	1500	4.00	120	PCD1328CT-ND	.11	.93	7.29	PCD1328TR-ND	40.00/M	ELJ-RF68NJF
82.0nH	5%	7	—	100	1400	4.50	110	PCD1329CT-ND	.11	.93	7.29	PCD1329TR-ND	40.00/M	ELJ-RF82NJF
100.0nH	5%	7	—	100	1200	5.50	90	PCD1330CT-ND	.11	.93	7.29	PCD1330TR-ND	40.00/M	ELJ-RFR10JF
† **PCD3-KIT-ND** ***Digi-Key® RF Surface Mount Inductors Kit*** 10 Each of Values Denoted (200 Total Pieces) **$69.95**														
Fig. 1, 0402 (1005) — Type PF (5% Tolerance) — RoHS Compliant														
2.2nH	±0.3nH	7	—	100	5300	0.040	1900	PCD1889CT-ND	.17	1.41	11.11	PCD1889TR-ND	61.00/M	ELJ-PF2N2DFB
2.7nH	±0.3nH	7	—	100	5300	0.050	1800	PCD1890CT-ND	.17	1.41	11.11	PCD1890TR-ND	61.00/M	ELJ-PF2N7DFB
3.3nH	±0.3nH	7	—	100	5000	0.070	1500	PCD1891CT-ND	.17	1.41	11.11	PCD1891TR-ND	61.00/M	ELJ-PF3N3DFB
3.9nH	±0.3nH	7	—	100	4800	0.080	1400	PCD1892CT-ND	.17	1.41	11.11	PCD1892TR-ND	61.00/M	ELJ-PF3N9DFB
4.7nH	±0.3nH	7	—	100	4600	0.100	1300	PCD1893CT-ND	.17	1.41	11.11	PCD1893TR-ND	61.00/M	ELJ-PF4N7DFB
5.6nH	±0.3nH	7	—	100	4200	0.120	1200	PCD1894CT-ND	.17	1.41	11.11	PCD1894TR-ND	61.00/M	ELJ-PF5N6DFB
6.8nH	±5%	7	—	100	4000	0.160	1100	PCD1895CT-ND	.17	1.41	11.11	PCD1895TR-ND	61.00/M	ELJ-PF6N8JFB
8.2nH	±5%	7	—	100	3700	0.210	900	PCD1896CT-ND	.17	1.41	11.11	PCD1896TR-ND	61.00/M	ELJ-PF8N2JFB
10nH	±5%	7	—	100	3200	0.260	750	PCD1897CT-ND	.17	1.41	11.11	PCD1897TR-ND	61.00/M	ELJ-PF10NJFB
Fig. 1, 0402 (1005) — Type PF (5% Tolerance)														
2.2nH	±0.3nH	7	—	100	5300	0.04	1900	PCD1539CT-ND	.35	2.91	22.83	PCD1539TR-ND	124.50/M	ELJ-PF2N2DF
2.7nH	±0.3nH	7	—	100	5300	0.05	1800	PCD1540CT-ND	.35	2.91	22.83	PCD1540TR-ND	124.50/M	ELJ-PF2N7DF
3.3nH	±0.3nH	7	—	100	5000	0.07	1500	PCD1541CT-ND	.35	2.91	22.83	PCD1541TR-ND	124.50/M	ELJ-PF3N3DF
3.9nH	±0.3nH	7	—	100	4800	0.08	1400	PCD1542CT-ND	.35	2.91	22.83	PCD1542TR-ND	124.50/M	ELJ-PF3N9DF
4.7nH	±0.3nH	7	—	100	4600	0.10	1300	PCD1543CT-ND	.35	2.91	22.83	PCD1543TR-ND	124.50/M	ELJ-PF4N7DF
5.6nH	±0.3nH	7	—	100	4200	0.12	1200	PCD1544CT-ND	.35	2.91	22.83	PCD1544TR-ND	124.50/M	ELJ-PF5N6DF
6.8nH	5%	7	—	100	4000	0.16	1100	PCD1545CT-ND	.35	2.91	22.83	PCD1545TR-ND	124.50/M	ELJ-PF6N8JF
8.2nH	5%	7	—	100	3700	0.21	900	PCD1546CT-ND	.35	2.91	22.83	PCD1546TR-ND	124.50/M	ELJ-PF8N2JF
10.0nH	5%	7	—	100	3200	0.26	750	PCD1547CT-ND	.35	2.91	22.83	PCD1547TR-ND	124.50/M	ELJ-PF10NJF
Fig. 1, 0402 (1005) — Type QF (5% Tolerance)														
1.0nH	±0.3nH	10	41	100	6000	0.05	400	PCD1846CT-ND	.27	2.21	17.33	PCD1846TR-ND	95.00/M	ELJ-QF1N0DF
1.2nH	±0.3nH	10	41	100	6000	0.06	400	PCD1847CT-ND	.27	2.21	17.33	PCD1847TR-ND	95.00/M	ELJ-QF1N2DF
1.5nH	±0.3nH	10	40	100	6000	0.07	400	PCD1848CT-ND	.27	2.21	17.33	PCD1848TR-ND	95.00/M	ELJ-QF1N5DF
1.8nH	±0.3nH	10	40	100	6000	0.08	400	PCD1849CT-ND	.27	2.21	17.33	PCD1849TR-ND	95.00/M	ELJ-QF1N8DF
2.2nH	±0.3nH	10	40	100	6000	0.09	400	PCD1850CT-ND	.27	2.21	17.33	PCD1850TR-ND	95.00/M	ELJ-QF2N2DF
2.7nH	±0.3nH	10	40	100	5500	0.10	400	PCD1851CT-ND	.27	2.21	17.33	PCD1851TR-ND	95.00/M	ELJ-QF2N7DF
3.3nH	±0.3nH	10	39	100	5500	0.12	400	PCD1852CT-ND	.27	2.21	17.33	PCD1852TR-ND	95.00/M	ELJ-QF3N3DF
3.9nH	±0.3nH	10	39	100	5200	0.15	360	PCD1853CT-ND	.27	2.21	17.33	PCD1853TR-ND	95.00/M	ELJ-QF3N9DF
4.7nH	±0.3nH	10	39	100	4800	0.17	360	PCD1854CT-ND	.27	2.21	17.33	PCD1854TR-ND	95.00/M	ELJ-QF4N7DF
5.6nH	±0.3nH	10	39	100	4600	0.19	340	PCD1855CT-ND	.27	2.21	17.33	PCD1855TR-ND	95.00/M	ELJ-QF5N6DF
6.8nH	5%	10	39	100	4000	0.30	320	PCD1856CT-ND	.27	2.21	17.33	PCD1856TR-ND	95.00/M	ELJ-QF6N8JF
8.2nH	5%	10	39	100	3500	0.35	320	PCD1857CT-ND	.27	2.21	17.33	PCD1857TR-ND	95.00/M	ELJ-QF8N2JF
10nH	5%	10	39	100	2800	0.41	320	PCD1858CT-ND	.27	2.21	17.33	PCD1858TR-ND	95.00/M	ELJ-QF10NJF
12nH	5%	10	38	100	2800	0.45	320	PCD1859CT-ND	.27	2.21	17.33	PCD1859TR-ND	95.00/M	ELJ-QF12NJF
15nH	5%	10	36	100	2500	0.60	240	PCD1860CT-ND	.27	2.21	17.33	PCD1860TR-ND	95.00/M	ELJ-QF15NJF
18nH	5%	10	36	100	2200	0.70	240	PCD1861CT-ND	.27	2.21	17.33	PCD1861TR-ND	95.00/M	ELJ-QF18NJF
22nH	5%	10	36	100	2200	0.80	200	PCD1862CT-ND	.27	2.21	17.33	PCD1862TR-ND	95.00/M	ELJ-QF22NJF
27nH	5%	10	36	100	1800	1.20	200	PCD1863CT-ND	.27	2.21	17.33	PCD1863TR-ND	95.00/M	ELJ-QF27NJF
33nH	5%	10	35	100	1800	1.40	170	PCD1864CT-ND	.27	2.21	17.33	PCD1864TR-ND	95.00/M	ELJ-QF33NJF
39nH	5%	10	35	100	1800	1.70	150	PCD1865CT-ND	.27	2.21	17.33	PCD1865TR-ND	95.00/M	ELJ-QF39NJF
Fig. 2, 0402 (1005) — Type NK (3% Tolerance)														
3.9nH	±0.2nH	25	—	250	10000	0.07	850	PCD1780CT-ND	.62	5.11	40.15	—	—	ELJ-NK3N9ZF
Fig. 2, 0402 (1005) — Type NK (5% Tolerance)														
2.2nH	±0.5nH	20	—	250	15000	0.05	900	PCD1773CT-ND	.50	4.08	32.04	—	—	ELJ-NK2N2EF
Inductance	**Tolerance**	**Q Min.**	**Q Typ. @ 800 MHz**	**L,Q Test Freq. (MHz)**	**S.R.F. Min. (MHz)**	**RDC Max. (Ohm)**	**IDC Max. (mA)**	**Digi-Key Part No.**	**Cut Tape Pricing**			**Digi-Key Part No.**	**T/R Pricing**	**Panasonic Part No.**
									1	**10**	**100**		**3,000**	
Fig. 3, 0603 (1608) — Type RE (2% Tolerance) — RoHS Compliant														
1.0nH	±0.2nH	7	—	100	6000	0.05	500	PCD1990CT-ND	.15	1.23	9.63	PCD1990TR-ND	53.00/M	ELJ-RE1N0ZFA
1.2nH	±0.2nH	7	—	100	6000	0.06	500	PCD1991CT-ND	.15	1.23	9.63	PCD1991TR-ND	53.00/M	ELJ-RE1N2ZFA
1.5nH	±0.2nH	8	—	100	6000	0.07	500	PCD1992CT-ND	.15	1.23	9.63	PCD1992TR-ND	53.00/M	ELJ-RE1N5ZFA
1.8nH	±0.2nH	8	—	100	6000	0.08	500	PCD1993CT-ND	.15	1.23	9.63	PCD1993TR-ND	53.00/M	ELJ-RE1N8ZFA
2.2nH	±0.2nH	8	—	100	6000	0.09	500	PCD1994CT-ND	.15	1.23	9.63	PCD1994TR-ND	53.00/M	ELJ-RE2N2ZFA
2.7nH	±0.2nH	8	—	100	6000	0.10	500	PCD1995CT-ND	.15	1.23	9.63	PCD1995TR-ND	53.00/M	ELJ-RE2N7ZFA
3.3nH	±0.2nH	9	—	100	5500	0.12	500	PCD1996CT-ND	.15	1.23	9.63	PCD1996TR-ND	53.00/M	ELJ-RE3N3ZFA
3.9nH	±0.2nH	9	—	100	5500	0.15	450	PCD1997CT-ND	.15	1.23	9.63	PCD1997TR-ND	53.00/M	ELJ-RE3N9ZFA
4.7nH	±0.2nH	9	—	100	4800	0.17	450	PCD1998CT-ND	.15	1.23	9.63	PCD1998TR-ND	53.00/M	ELJ-RE4N7ZFA
5.6nH	±0.2nH	9	—	100	4600	0.18	430	PCD1999CT-ND	.15	1.23	9.63	PCD1999TR-ND	53.00/M	ELJ-RE5N6ZFA
6.8nH	±0.2nH	9	—	100	3550	0.20	430	PCD2000CT-ND	.15	1.23	9.63	PCD2000TR-ND	53.00/M	ELJ-RE6N8ZFA
8.2nH	±0.2nH	9	—	100	3550	0.28	400	PCD2001CT-ND	.15	1.23	9.63	PCD2001TR-ND	53.00/M	ELJ-RE8N2ZFA
10nH	±2%	10	—	100	2800	0.32	400	PCD2002CT-ND	.15	1.23	9.63	PCD2002TR-ND	53.00/M	ELJ-RE10NGFA
12nH	±2%	10	—	100	2800	0.35	400	PCD2003CT-ND	.15	1.23	9.63	PCD2003TR-ND	53.00/M	ELJ-RE12NGFA
15nH	±2%	10	—	100	2500	0.41	350	PCD2004CT-ND	.15	1.23	9.63	PCD2004TR-ND	53.00/M	ELJ-RE15NGFA
18nH	±2%	10	—	100	2300	0.45	350	PCD2005CT-ND	.15	1.23	9.63	PCD2005TR-ND	53.00/M	ELJ-RE18NGFA
22nH	±2%	10	—	100	2000	0.50	300	PCD2006CT-ND	.15	1.23	9.63	PCD2006TR-ND	53.00/M	ELJ-RE22NGFA
27nH	±2%	10	—	100	2000	0.55	300	PCD2007CT-ND	.15	1.23	9.63	PCD2007TR-ND	53.00/M	ELJ-RE27NGFA
33nH	±2%	10	—	100	1800	0.60	300	PCD2008CT-ND	.15	1.23	9.63	PCD2008TR-ND	53.00/M	ELJ-RE33NGFA
39nH	±2%	11	—	100	1800	0.80	300	PCD2009CT-ND	.15	1.23	9.63	PCD2009TR-ND	53.00/M	ELJ-RE39NGFA

(Continued)

Inductance	Tolerance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T/R Pricing 3,000	Panasonic Part No.
47nH	±2%	11	—	100	1800	0.95	250	PCD2010CT-ND	.15	1.23	9.63	PCD2010TR-ND	53.00/M	ELJ-RE47NGFA
56nH	±2%	12	—	100	1800	1.20	250	PCD2011CT-ND	.15	1.23	9.63	PCD2011TR-ND	53.00/M	ELJ-RE56NGFA
68nH	±2%	12	—	100	1500	1.30	250	PCD2012CT-ND	.15	1.23	9.63	PCD2012TR-ND	53.00/M	ELJ-RE68NGFA
82nH	±2%	12	—	100	1500	1.50	250	PCD2013CT-ND	.15	1.23	9.63	PCD2013TR-ND	53.00/M	ELJ-RE82NGFA
100nH	±2%	12	—	100	1300	1.80	200	PCD2014CT-ND	.15	1.23	9.63	PCD2014TR-ND	53.00/M	ELJ-RER10GFA
120nH	±2%	5	—	25.2	1200	3.00	130	PCD2015CT-ND	.15	1.23	9.63	PCD2015TR-ND	53.00/M	ELJ-RER12GFA
150nH	±2%	5	—	25.2	1100	4.50	100	PCD2016CT-ND	.15	1.23	9.63	PCD2016TR-ND	53.00/M	ELJ-RER15GFA
180nH	±2%	4	—	25.2	1000	6.50	80	PCD2017CT-ND	.15	1.23	9.63	PCD2017TR-ND	53.00/M	ELJ-RER18GFA
220nH	±2%	4	—	25.2	900	7.50	70	PCD2018CT-ND	.15	1.23	9.63	PCD2018TR-ND	53.00/M	ELJ-RER22GFA
Fig. 3, 0603 (1608) — Type RE (2% Tolerance)														
1.5nH	±0.2nH	8	47	100	6000	0.07	500	PCD1284CT-ND	.15	1.23	9.63	PCD1284TR-ND	52.50/M	ELJ-RE1N5ZF2
1.8nH	±0.2nH	8	45	100	6000	0.08	500	PCD1285CT-ND	.15	1.23	9.63	PCD1285TR-ND	52.50/M	ELJ-RE1N8ZF2
2.2nH	±0.2nH	8	35	100	6000	0.09	500	PCD1286CT-ND	.15	1.23	9.63	PCD1286TR-ND	52.50/M	ELJ-RE2N2ZF2
2.7nH	±0.2nH	8	35	100	6000	0.10	500	PCD1287CT-ND	.15	1.23	9.63	PCD1287TR-ND	52.50/M	ELJ-RE2N7ZF2
3.3nH	±0.2nH	9	35	100	5500	0.12	500	PCD1288CT-ND	.15	1.23	9.63	PCD1288TR-ND	52.50/M	ELJ-RE3N3ZF2
3.9nH	±0.2nH	9	36	100	5500	0.15	450	PCD1289CT-ND	.15	1.23	9.63	PCD1289TR-ND	52.50/M	ELJ-RE3N9ZF2
4.7nH	±0.2nH	9	36	100	4800	0.17	450	PCD1290CT-ND	.15	1.23	9.63	PCD1290TR-ND	52.50/M	ELJ-RE4N7ZF2
5.6nH	±0.2nH	9	36	100	4600	0.18	430	PCD1291CT-ND	.15	1.23	9.63	PCD1291TR-ND	52.50/M	ELJ-RE5N6ZF2
6.8nH	±0.2nH	9	36	100	3550	0.20	430	PCD1292CT-ND	.15	1.23	9.63	PCD1292TR-ND	52.50/M	ELJ-RE6N8ZF2
8.2nH	±0.2nH	9	36	100	3500	0.28	400	PCD1293CT-ND	.15	1.23	9.63	PCD1293TR-ND	52.50/M	ELJ-RE8N2ZF2
10nH	2%	10	37	100	2800	0.32	400	PCD1294CT-ND	.15	1.23	9.63	PCD1294TR-ND	52.50/M	ELJ-RE10NGF2
12nH	2%	10	37	100	2800	0.35	400	PCD1295CT-ND	.15	1.23	9.63	PCD1295TR-ND	52.50/M	ELJ-RE12NGF2
15nH	2%	10	38	100	2500	0.41	350	PCD1296CT-ND	.15	1.23	9.63	PCD1296TR-ND	52.50/M	ELJ-RE15NGF2
18nH	2%	10	39	100	2300	0.45	350	PCD1297CT-ND	.15	1.23	9.63	PCD1297TR-ND	52.50/M	ELJ-RE18NGF2
22nH	2%	10	40	100	2000	0.50	300	PCD1298CT-ND	.15	1.23	9.63	PCD1298TR-ND	52.50/M	ELJ-RE22NGF2
27nH	2%	10	41	100	2000	0.55	300	PCD1299CT-ND	.15	1.23	9.63	PCD1299TR-ND	52.50/M	ELJ-RE27NGF2
33nH	2%	10	40	100	1800	0.60	300	PCD1300CT-ND	.15	1.23	9.63	PCD1300TR-ND	52.50/M	ELJ-RE33NGF2
39nH	2%	11	39	100	1800	0.80	300	PCD1301CT-ND	.15	1.23	9.63	PCD1301TR-ND	52.50/M	ELJ-RE39NGF2
47nH	2%	11	38	100	1800	0.95	250	PCD1302CT-ND	.15	1.23	9.63	PCD1302TR-ND	52.50/M	ELJ-RE47NGF2
56nH	2%	12	35	100	1800	1.2	250	PCD1303CT-ND	.15	1.23	9.63	PCD1303TR-ND	52.50/M	ELJ-RE56NGF3
68nH	2%	12	35	100	1500	1.3	250	PCD1304CT-ND	.15	1.23	9.63	PCD1304TR-ND	52.50/M	ELJ-RE68NGF3
82nH	2%	12	33	100	1500	1.5	250	PCD1305CT-ND	.15	1.23	9.63	PCD1305TR-ND	52.50/M	ELJ-RE82NGF3
100nH	2%	12	30	100	1300	1.8	200	PCD1306CT-ND	.15	1.23	9.63	PCD1306TR-ND	52.50/M	ELJ-RER10GF3
PCD4-KIT-ND ***Digi-Key® RE (2% Tolerance) Surface Mount Inductors Kit*** 10 Each of all 23 Values (230 Total) **$79.95**														
Fig. 3, 0603 (1608) — Type RE (5% Tolerance) — RoHS Compliant														
1.0nH	±0.3nH	7	—	100	6000	0.05	500	PCD1961CT-ND	.11	.93	7.29	PCD1961TR-ND	40.00/M	ELJ-RE1N0DFA
1.2nH	±0.3nH	7	—	100	6000	0.06	500	PCD1962CT-ND	.11	.93	7.29	PCD1962TR-ND	40.00/M	ELJ-RE1N2DFA
1.5nH	±0.3nH	8	—	100	6000	0.07	500	PCD1963CT-ND	.11	.93	7.29	PCD1963TR-ND	40.00/M	ELJ-RE1N5DFA
1.8nH	±0.3nH	8	—	100	6000	0.08	500	PCD1964CT-ND	.11	.93	7.29	PCD1964TR-ND	40.00/M	ELJ-RE1N8DFA
2.2nH	±0.3nH	8	—	100	6000	0.09	500	PCD1965CT-ND	.11	.93	7.29	PCD1965TR-ND	40.00/M	ELJ-RE2N2DFA
2.7nH	±0.3nH	8	—	100	6000	0.10	500	PCD1966CT-ND	.11	.93	7.29	PCD1966TR-ND	40.00/M	ELJ-RE2N7DFA
3.3nH	±0.3nH	9	—	100	5500	0.12	500	PCD1967CT-ND	.11	.93	7.29	PCD1967TR-ND	40.00/M	ELJ-RE3N3DFA
3.9nH	±5%	9	—	100	5500	0.15	450	PCD1968CT-ND	.11	.93	7.29	PCD1968TR-ND	40.00/M	ELJ-RE3N9JFA
4.7nH	±5%	9	—	100	4800	0.17	450	PCD1969CT-ND	.11	.93	7.29	PCD1969TR-ND	40.00/M	ELJ-RE4N7JFA
5.6nH	±5%	9	—	100	4600	0.18	430	PCD1970CT-ND	.11	.93	7.29	PCD1970TR-ND	40.00/M	ELJ-RE5N6JFA
6.8nH	±5%	9	—	100	3550	0.20	430	PCD1971CT-ND	.11	.93	7.29	PCD1971TR-ND	40.00/M	ELJ-RE6N8JFA
8.2nH	±5%	9	—	100	3550	0.28	400	PCD1972CT-ND	.11	.93	7.29	PCD1972TR-ND	40.00/M	ELJ-RE8N2JFA
10nH	±5%	10	—	100	2800	0.32	400	PCD1973CT-ND	.11	.93	7.29	PCD1973TR-ND	40.00/M	ELJ-RE10NJFA
12nH	±5%	10	—	100	2800	0.35	400	PCD1974CT-ND	.11	.93	7.29	PCD1974TR-ND	40.00/M	ELJ-RE12NJFA
15nH	±5%	10	—	100	2500	0.41	350	PCD1975CT-ND	.11	.93	7.29	PCD1975TR-ND	40.00/M	ELJ-RE15NJFA
18nH	±5%	10	—	100	2300	0.45	350	PCD1976CT-ND	.11	.93	7.29	PCD1976TR-ND	40.00/M	ELJ-RE18NJFA
22nH	±5%	10	—	100	2000	0.50	300	PCD1977CT-ND	.11	.93	7.29	PCD1977TR-ND	40.00/M	ELJ-RE22NJFA
27nH	±5%	10	—	100	2000	0.55	300	PCD1978CT-ND	.11	.93	7.29	PCD1978TR-ND	40.00/M	ELJ-RE27NJFA
33nH	±5%	10	—	100	1800	0.60	300	PCD1979CT-ND	.11	.93	7.29	PCD1979TR-ND	40.00/M	ELJ-RE33NJFA
39nH	±5%	11	—	100	1800	0.80	300	PCD1980CT-ND	.11	.93	7.29	PCD1980TR-ND	40.00/M	ELJ-RE39NJFA
47nH	±5%	11	—	100	1800	0.95	250	PCD1981CT-ND	.11	.93	7.29	PCD1981TR-ND	40.00/M	ELJ-RE47NJFA
56nH	±5%	12	—	100	1800	1.20	250	PCD1982CT-ND	.11	.93	7.29	PCD1982TR-ND	40.00/M	ELJ-RE56NJFA
68nH	±5%	12	—	100	1500	1.30	250	PCD1983CT-ND	.11	.93	7.29	PCD1983TR-ND	40.00/M	ELJ-RE68NJFA
82nH	±5%	12	—	100	1500	1.50	250	PCD1984CT-ND	.11	.93	7.29	PCD1984TR-ND	40.00/M	ELJ-RE82NJFA
100nH	±5%	12	—	100	1300	1.80	200	PCD1985CT-ND	.11	.93	7.29	PCD1985TR-ND	40.00/M	ELJ-RER10JFA
120nH	±5%	5	—	25.2	1200	3.00	130	PCD1986CT-ND	.11	.93	7.29	PCD1986TR-ND	40.00/M	ELJ-RER12JFA
150nH	±5%	5	—	25.2	1100	4.50	100	PCD1987CT-ND	.11	.93	7.29	PCD1987TR-ND	40.00/M	ELJ-RER15JFA
180nH	±5%	4	—	25.2	1000	6.50	80	PCD1988CT-ND	.11	.93	7.29	PCD1988TR-ND	40.00/M	ELJ-RER18JFA
220nH	±5%	4	—	25.2	900	7.50	70	PCD1989CT-ND	.11	.93	7.29	PCD1989TR-ND	40.00/M	ELJ-RER22JFA
Fig. 3, 0603 (1608) — Type RE (5% Tolerance)														
1.5nH	±0.3nH	8	47	100	6000	0.07	500	PCD1196CT-ND‡	.11	.93	7.29	PCD1196TR-ND	40.00/M	ELJ-RE1N5DF2
1.8nH	±0.3nH	8	45	100	6000	0.08	500	PCD1197CT-ND‡	.11	.93	7.29	PCD1197TR-ND	40.00/M	ELJ-RE1N8DF2
2.2nH	±0.3nH	8	35	100	6000	0.09	500	PCD1143CT-ND‡	.11	.93	7.29	PCD1143TR-ND	40.00/M	ELJ-RE2N2DF2
2.7nH	±0.3nH	8	35	100	6000	0.10	500	PCD1144CT-ND‡	.11	.93	7.29	PCD1144TR-ND	40.00/M	ELJ-RE2N7DF2
3.3nH	±0.3nH	9	35	100	5500	0.12	500	PCD1145CT-ND‡	.11	.93	7.29	PCD1145TR-ND	40.00/M	ELJ-RE3N3DF2
3.9nH	5%	9	36	100	5500	0.15	450	PCD1146CT-ND‡	.11	.93	7.29	PCD1146TR-ND	40.00/M	ELJ-RE3N9JF2
4.7nH	5%	9	36	100	4800	0.17	450	PCD1147CT-ND‡	.11	.93	7.29	PCD1147TR-ND	40.00/M	ELJ-RE4N7JF2
5.6nH	5%	9	36	100	4600	0.18	430	PCD1148CT-ND‡	.11	.93	7.29	PCD1148TR-ND	40.00/M	ELJ-RE5N6JF2
6.8nH	5%	9	36	100	3550	0.20	430	PCD1149CT-ND‡	.11	.93	7.29	PCD1149TR-ND	40.00/M	ELJ-RE6N8JF2
8.2nH	5%	9	36	100	3500	0.28	400	PCD1150CT-ND‡	.11	.93	7.29	PCD1150TR-ND	40.00/M	ELJ-RE8N2JF2
10nH	5%	10	37	100	2800	0.32	400	PCD1151CT-ND‡	.11	.93	7.29	PCD1151TR-ND	40.00/M	ELJ-RE10NJF2
12nH	5%	10	37	100	2800	0.35	400	PCD1152CT-ND‡	.11	.93	7.29	PCD1152TR-ND	40.00/M	ELJ-RE12NJF2
15nH	5%	10	38	100	2500	0.41	350	PCD1153CT-ND‡	.11	.93	7.29	PCD1153TR-ND	40.00/M	ELJ-RE15NJF2
18nH	5%	10	39	100	2300	0.45	350	PCD1154CT-ND‡	.11	.93	7.29	PCD1154TR-ND	40.00/M	ELJ-RE18NJF2
22nH	5%	10	40	100	2000	0.50	300	PCD1155CT-ND‡	.11	.93	7.29	PCD1155TR-ND	40.00/M	ELJ-RE22NJF2
27nH	5%	10	41	100	2000	0.55	300	PCD1156CT-ND‡	.11	.93	7.29	PCD1156TR-ND	40.00/M	ELJ-RE27NJF2
33nH	5%	10	40	100	1800	0.60	300	PCD1157CT-ND‡	.11	.93	7.29	PCD1157TR-ND	40.00/M	ELJ-RE33NJF2
39nH	5%	11	39	100	1800	0.80	300	PCD1158CT-ND‡	.11	.93	7.29	PCD1158TR-ND	40.00/M	ELJ-RE39NJF2
47nH	5%	11	38	100	1800	0.95	250	PCD1159CT-ND‡	.11	.93	7.29	PCD1159TR-ND	40.00/M	ELJ-RE47NJF2
56nH	5%	12	35	100	1800	1.20	250	PCD1198CT-ND‡	.11	.93	7.29	PCD1198TR-ND	40.00/M	ELJ-RE56NJF3
68nH	5%	12	35	100	1500	1.30	250	PCD1199CT-ND‡	.11	.93	7.29	PCD1199TR-ND	40.00/M	ELJ-RE68NJF3
82nH	5%	12	33	100	1500	1.50	250	PCD1200CT-ND‡	.11	.93	7.29	PCD1200TR-ND	40.00/M	ELJ-RE82NJF3
100nH	5%	12	30	100	1300	1.80	200	PCD1201CT-ND‡	.11	.93	7.29	PCD1201TR-ND	40.00/M	ELJ-RER10JF3
120nH	5%	5	25	25.2	1200	3.00	130	PCD1322CT-ND	.11	.93	7.29	PCD1322TR-ND	40.00/M	ELJ-RER12JF3
150nH	5%	5	22	25.2	1100	4.50	100	PCD1323CT-ND	.11	.93	7.29	PCD1323TR-ND	40.00/M	ELJ-RER15JF3
180nH	5%	4	20	25.2	1000	6.50	80	PCD1324CT-ND	.11	.93	7.29	PCD1324TR-ND	40.00/M	ELJ-RER18JF3
220nH	5%	4	—	25.2	900	7.50	70	PCD1325CT-ND	.11	.93	7.29	PCD1325TR-ND	40.00/M	ELJ-RER22JF3
‡ **PCD1-KIT-ND** ***Digi-Key® RE (5% Tolerance) Surface Mount Inductors Kit*** 10 Each of Denoted Values (230 Total Pieces).......... **$69.95**														
Fig. 3, 0603 (1608) — Type PE (10% Tolerance) — RoHS Compliant														
2.2nH	±10%	8	—	100	—	30	2100	PCD1948CT-ND	.35	2.91	22.83	PCD1948TR-ND	125.00/M	ELJ-PE2N2KFA
2.7nH	±10%	8	—	100	—	30	2100	PCD1949CT-ND	.35	2.91	22.83	PCD1949TR-ND	125.00/M	ELJ-PE2N7KFA
3.3nH	±10%	8	—	100	—	40	2100	PCD1950CT-ND	.35	2.91	22.83	PCD1950TR-ND	125.00/M	ELJ-PE3N3KFA
3.9nH	±10%	9	—	100	—	40	2100	PCD1951CT-ND	.35	2.91	22.83	PCD1951TR-ND	125.00/M	ELJ-PE3N9KFA
4.7nH	±10%	9	—	100	—	50	2100	PCD1952CT-ND	.35	2.91	22.83	PCD1952TR-ND	125.00/M	ELJ-PE4N7KFA
5.6nH	±10%	9	—	100	—	55	2100	PCD1953CT-ND	.35	2.91	22.83	PCD1953TR-ND	125.00/M	ELJ-PE5N6KFA
6.8nH	±10%	9	—	100	—	55	1900	PCD1954CT-ND	.35	2.91	22.83	PCD1954TR-ND	125.00/M	ELJ-PE6N8KFA
8.2nH	±10%	9	—	100	—	60	1700	PCD1955CT-ND	.35	2.91	22.83	PCD1955TR-ND	125.00/M	ELJ-PE8N2KFA

(Continued)

Inductance	Tolerance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T/R Pricing 3,000	Panasonic Part No.
10nH	±10%	9	—	100	—	65	1400	PCD1956CT-ND	.35	2.91	22.83	PCD1956TR-ND	125.00/M	ELJ-PE10NKFA
12nH	±10%	9	—	100	—	80	1300	PCD1957CT-ND	.35	2.91	22.83	PCD1957TR-ND	125.00/M	ELJ-PE12NKFA
15nH	±10%	9	—	100	—	100	900	PCD1958CT-ND	.35	2.91	22.83	PCD1958TR-ND	125.00/M	ELJ-PE15NKFA
18nH	±10%	9	—	100	—	120	800	PCD1959CT-ND	.35	2.91	22.83	PCD1959TR-ND	125.00/M	ELJ-PE18NKFA
22nH	±10%	9	—	100	—	150	700	PCD1960CT-ND	.35	2.91	22.83	PCD1960TR-ND	125.00/M	ELJ-PE22NKFA
Fig. 3, 0603 (1608) — Type PE (10% Tolerance)														
2.2nH	10%	8	—	100	6000	0.030	2.1	PCD1404CT-ND	.35	2.91	22.83	PCD1404TR-ND	125.00/M	ELJ-PE2N2KF
2.7nH	10%	8	—	100	5500	0.030	2.1	PCD1405CT-ND	.35	2.91	22.83	PCD1405TR-ND	125.00/M	ELJ-PE2N7KF
3.3nH	10%	8	—	100	5500	0.040	2.1	PCD1406CT-ND	.35	2.91	22.83	PCD1406TR-ND	125.00/M	ELJ-PE3N3KF
3.9nH	10%	9	—	100	5200	0.040	2.1	PCD1407CT-ND	.35	2.91	22.83	PCD1407TR-ND	125.00/M	ELJ-PE3N9KF
4.7nH	10%	9	—	100	4800	0.050	2.1	PCD1408CT-ND	.35	2.91	22.83	PCD1408TR-ND	125.00/M	ELJ-PE4N7KF
5.6nH	10%	9	—	100	4600	0.055	2.1	PCD1409CT-ND	.35	2.91	22.83	PCD1409TR-ND	125.00/M	ELJ-PE5N6KF
6.8nH	10%	9	—	100	4000	0.055	1.9	PCD1410CT-ND	.35	2.91	22.83	PCD1410TR-ND	125.00/M	ELJ-PE6N8KF
8.2nH	10%	9	—	100	3500	0.060	1.7	PCD1411CT-ND	.35	2.91	22.83	PCD1411TR-ND	125.00/M	ELJ-PE8N2KF
10nH	10%	9	—	100	2800	0.065	1.4	PCD1412CT-ND	.35	2.91	22.83	PCD1412TR-ND	125.00/M	ELJ-PE10NKF
12nH	10%	9	—	100	2500	0.080	1.3	PCD1413CT-ND	.35	2.91	22.83	PCD1413TR-ND	125.00/M	ELJ-PE12NKF
15nH	10%	9	—	100	2200	0.100	0.9	PCD1414CT-ND	.35	2.91	22.83	PCD1414TR-ND	125.00/M	ELJ-PE15NKF
18nH	10%	9	—	100	2000	0.120	0.8	PCD1415CT-ND	.35	2.91	22.83	PCD1415TR-ND	125.00/M	ELJ-PE18NKF
22nH	10%	9	—	100	1800	0.150	0.7	PCD1416CT-ND	.35	2.91	22.83	PCD1416TR-ND	125.00/M	ELJ-PE22NKF
Fig. 4, 0603 (1608) — Type NJ (5% Tolerance)														
39nH	5%	40	—	250	3200	0.25	400	PCD1512CT-ND	.50	4.12	32.38	PCD1512TR-ND	176.63/M	ELJ-NJ39NJF2
Fig. 5, 0805 (2012) — Type FD (10% Tolerance)														
3.3µH	10%	15	—	7.96	50	2.84	140	PCD1193CT-ND	1.55	12.78	100.38	—	—	ELJ-FD3R3KF
Fig. 5, 0805 (2012) — Type ND (10% Tolerance)														
10nH	10%	10	48	100	3300	0.14	540	PCD1160CT-ND	.35	2.91	22.83	PCD1160TR-ND	125.00/M	ELJ-ND10NKF
12nH	10%	10	53	100	3300	0.18	535	PCD1161CT-ND	.35	2.91	22.83	PCD1161TR-ND	125.00/M	ELJ-ND12NKF
15nH	10%	12	55	100	3000	0.18	520	PCD1162CT-ND	.35	2.91	22.83	PCD1162TR-ND	125.00/M	ELJ-ND15NKF
18nH	10%	12	55	100	3000	0.22	480	PCD1163CT-ND	.35	2.91	22.83	PCD1163TR-ND	125.00/M	ELJ-ND18NKF
22nH	10%	15	55	100	2600	0.22	465	PCD1164CT-ND	.35	2.91	22.83	PCD1164TR-ND	125.00/M	ELJ-ND22NKF
27nH	10%	15	57	100	2500	0.26	455	PCD1165CT-ND	.35	2.91	22.83	PCD1165TR-ND	125.00/M	ELJ-ND27NKF
33nH	10%	15	58	100	2050	0.30	395	PCD1166CT-ND	.35	2.91	22.83	PCD1166TR-ND	125.00/M	ELJ-ND33NKF
Fig. 5, 0805 (2012) — Type ND (5% Tolerance)														
12nH	5%	10	53	100	3300	0.18	535	PCD1185CT-ND	.35	2.91	22.83	PCD1185TR-ND	125.00/M	ELJ-ND12NJF
39nH	5%	15	55	100	2000	0.31	390	PCD1167CT-ND	.35	2.91	22.83	PCD1167TR-ND	125.00/M	ELJ-ND39NJF
47nH	5%	15	50	100	1650	0.35	385	PCD1168CT-ND	.35	2.91	22.83	PCD1168TR-ND	125.00/M	ELJ-ND47NJF
56nH	5%	15	45	100	1550	0.39	360	PCD1169CT-ND	.35	2.91	22.83	PCD1169TR-ND	125.00/M	ELJ-ND56NJF
68nH	5%	15	44	100	1450	0.44	340	PCD1170CT-ND	.35	2.91	22.83	PCD1170TR-ND	125.00/M	ELJ-ND68NJF
82nH	5%	15	40	100	1100	0.48	330	PCD1171CT-ND	.35	2.91	22.83	PCD1171TR-ND	125.00/M	ELJ-ND82NJF
100nH	5%	8	35	25.2	800	0.66	285	PCD1172CT-ND	.35	2.91	22.83	PCD1172TR-ND	125.00/M	ELJ-NDR10JF
120nH	5%	8	—	25.2	600	0.76	275	PCD1173CT-ND	.35	2.91	22.83	PCD1173TR-ND	125.00/M	ELJ-NDR12JF
150nH	5%	10	—	25.2	600	1.13	230	PCD1174CT-ND	.35	2.91	22.83	PCD1174TR-ND	125.00/M	ELJ-NDR15JF
180nH	5%	10	—	25.2	600	1.24	195	PCD1175CT-ND	.35	2.91	22.83	PCD1175TR-ND	125.00/M	ELJ-NDR18JF
220nH	5%	10	—	25.2	500	1.41	170	PCD1176CT-ND	.35	2.91	22.83	PCD1176TR-ND	125.00/M	ELJ-NDR22JF
270nH	5%	10	—	25.2	300	1.50	165	PCD1177CT-ND	.35	2.91	22.83	PCD1177TR-ND	125.00/M	ELJ-NDR27JF
330nH	5%	10	—	25.2	200	1.66	160	PCD1178CT-ND	.35	2.91	22.83	PCD1178TR-ND	125.00/M	ELJ-NDR33JF
390nH	5%	10	—	25.2	150	1.82	150	PCD1179CT-ND	.35	2.91	22.83	PCD1179TR-ND	125.00/M	ELJ-NDR39JF
470nH	5%	10	—	25.2	150	1.97	145	PCD1180CT-ND	.35	2.91	22.83	PCD1180TR-ND	125.00/M	ELJ-NDR47JF
560nH	5%	10	—	25.2	100	2.07	140	PCD1181CT-ND	.35	2.91	22.83	PCD1181TR-ND	125.00/M	ELJ-NDR56JF
680nH	5%	10	—	25.2	100	2.32	130	PCD1182CT-ND	.35	2.91	22.83	PCD1182TR-ND	125.00/M	ELJ-NDR68JF
820nH	5%	10	—	25.2	80	2.60	125	PCD1183CT-ND	.35	2.91	22.83	PCD1183TR-ND	125.00/M	ELJ-NDR82JF
1000nH	5%	8	—	7.96	80	2.98	120	PCD1184CT-ND	.35	2.91	22.83	PCD1184TR-ND	125.00/M	ELJ-ND1R0JF
PCD2-KIT-ND ***Digi-Key® ND Surface Mount Inductors Kit*** 10 Each of 25 Values (PCD1185CT-ND Not Included) (250 Total Pieces) **$99.95**														
Inductance	**Tolerance**	**Q Min.**	**Q Typ. @ 800 MHz**	**L,Q Test Freq. (MHz)**	**S.R.F. Min. (MHz)**	**RDC Max. (Ohm)**	**IDC Max. (mA)**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**100**	**Digi-Key Part No.**	**T/R Pricing 2,000**	**Panasonic Part No.**
Fig. 6, 1008 (2520) — Type NC (10% Tolerance)														
10nH	10%	10	—	100	2500	0.32	280	PCD1037CT-ND	.28	2.31	18.15	PCD1037TR-ND	99.00/M	ELJ-NC10NKF
12nH	10%	10	—	100	2200	0.34	270	PCD1038CT-ND	.28	2.31	18.15	PCD1038TR-ND	99.00/M	ELJ-NC12NKF
15nH	10%	10	—	100	1800	0.38	255	PCD1039CT-ND	.28	2.31	18.15	PCD1039TR-ND	99.00/M	ELJ-NC15NKF
18nH	10%	10	—	100	1550	0.40	250	PCD1040CT-ND	.28	2.31	18.15	PCD1040TR-ND	99.00/M	ELJ-NC18NKF
22nH	10%	15	—	100	1350	0.43	240	PCD1041CT-ND	.28	2.31	18.15	PCD1041TR-ND	99.00/M	ELJ-NC22NKF
27nH	10%	15	—	100	1150	0.47	230	PCD1042CT-ND	.28	2.31	18.15	PCD1042TR-ND	99.00/M	ELJ-NC27NKF
33nH	10%	15	—	100	1000	0.51	220	PCD1043CT-ND	.28	2.31	18.15	PCD1043TR-ND	99.00/M	ELJ-NC33NKF
39nH	10%	15	—	100	890	0.55	215	PCD1044CT-ND	.28	2.31	18.15	PCD1044TR-ND	99.00/M	ELJ-NC39NKF
47nH	10%	15	—	100	770	0.59	205	PCD1045CT-ND	.28	2.31	18.15	PCD1045TR-ND	99.00/M	ELJ-NC47NKF
56nH	10%	15	—	100	670	0.63	200	PCD1046CT-ND	.28	2.31	18.15	PCD1046TR-ND	99.00/M	ELJ-NC56NKF
68nH	10%	15	—	100	590	0.68	190	PCD1047CT-ND	.28	2.31	18.15	PCD1047TR-ND	99.00/M	ELJ-NC68NKF
82nH	10%	15	—	100	520	0.73	185	PCD1048CT-ND	.28	2.31	18.15	PCD1048TR-ND	99.00/M	ELJ-NC82NKF
100nH	10%	10	—	25.2	460	0.80	175	PCD1049CT-ND	.28	2.31	18.15	PCD1049TR-ND	99.00/M	ELJ-NCR10KF
120nH	10%	10	—	25.2	400	0.87	170	PCD1050CT-ND	.28	2.31	18.15	PCD1050TR-ND	99.00/M	ELJ-NCR12KF
150nH	10%	10	—	25.2	340	0.98	160	PCD1051CT-ND	.28	2.31	18.15	PCD1051TR-ND	99.00/M	ELJ-NCR15KF
180nH	10%	10	—	25.2	300	1.05	155	PCD1052CT-ND	.28	2.31	18.15	PCD1052TR-ND	99.00/M	ELJ-NCR18KF
Fig. 6, 1008 (2520) — Type NC (5% Tolerance)														
33nH	5%	15	—	100	1000	0.51	220	PCD1202CT-ND	.28	2.31	18.15	PCD1202TR-ND	99.00/M	ELJ-NC33NJF
39nH	5%	15	—	100	890	0.55	215	PCD1203CT-ND	.28	2.31	18.15	PCD1203TR-ND	99.00/M	ELJ-NC39NJF
47nH	5%	15	—	100	770	0.59	205	PCD1204CT-ND	.28	2.31	18.15	PCD1204TR-ND	99.00/M	ELJ-NC47NJF
56nH	5%	15	—	100	670	0.63	200	PCD1205CT-ND	.28	2.31	18.15	PCD1205TR-ND	99.00/M	ELJ-NC56NJF
68nH	5%	15	—	100	590	0.68	190	PCD1206CT-ND	.28	2.31	18.15	PCD1206TR-ND	99.00/M	ELJ-NC68NJF
82nH	5%	15	—	100	520	0.73	185	PCD1207CT-ND	.28	2.31	18.15	PCD1207TR-ND	99.00/M	ELJ-NC82NJF
100nH	5%	10	—	25.2	460	0.80	175	PCD1208CT-ND	.28	2.31	18.15	PCD1208TR-ND	99.00/M	ELJ-NCR10JF
120nH	5%	10	—	25.2	400	0.87	170	PCD1209CT-ND	.28	2.31	18.15	PCD1209TR-ND	99.00/M	ELJ-NCR12JF
150nH	5%	10	—	25.2	340	0.98	160	PCD1210CT-ND	.28	2.31	18.15	PCD1210TR-ND	99.00/M	ELJ-NCR15JF
180nH	5%	10	—	25.2	300	1.05	155	PCD1211CT-ND	.28	2.31	18.15	PCD1211TR-ND	99.00/M	ELJ-NCR18JF
220nH	5%	10	—	25.2	260	1.15	145	PCD1212CT-ND	.28	2.31	18.15	PCD1212TR-ND	99.00/M	ELJ-NCR22JF
270nH	5%	10	—	25.2	230	1.25	140	PCD1213CT-ND	.28	2.31	18.15	PCD1213TR-ND	99.00/M	ELJ-NCR27JF
330nH	5%	10	—	25.2	200	1.37	135	PCD1214CT-ND	.28	2.31	18.15	PCD1214TR-ND	99.00/M	ELJ-NCR33JF
390nH	5%	10	—	25.2	180	1.47	130	PCD1215CT-ND	.28	2.31	18.15	PCD1215TR-ND	99.00/M	ELJ-NCR39JF
470nH	5%	10	—	25.2	160	1.58	125	PCD1216CT-ND	.28	2.31	18.15	PCD1216TR-ND	99.00/M	ELJ-NCR47JF
560nH	5%	10	—	25.2	145	1.70	120	PCD1217CT-ND	.28	2.31	18.15	PCD1217TR-ND	99.00/M	ELJ-NCR56JF
680nH	5%	10	—	25.2	130	1.85	110	PCD1218CT-ND	.28	2.31	18.15	PCD1218TR-ND	99.00/M	ELJ-NCR68JF
820nH	5%	10	—	25.2	100	2.10	100	PCD1219CT-ND	.28	2.31	18.15	PCD1219TR-ND	99.00/M	ELJ-NCR82JF
Fig. 6, 1008 (2520) — Type FC (20% Tolerance)														
0.22µH	20%	25	—	25.2	230	0.7	190	PCD1053CT-ND	.28	2.31	18.15	PCD1053TR-ND	99.00/M	ELJ-FCR22MF
0.27µH	20%	25	—	25.2	210	0.75	180	PCD1054CT-ND	.28	2.31	18.15	PCD1054TR-ND	99.00/M	ELJ-FCR27MF
0.33µH	20%	25	—	25.2	190	0.85	170	PCD1055CT-ND	.28	2.31	18.15	PCD1055TR-ND	99.00/M	ELJ-FCR33MF
0.39µH	20%	25	—	25.2	175	0.95	160	PCD1056CT-ND	.28	2.31	18.15	PCD1056TR-ND	99.00/M	ELJ-FCR39MF
0.47µH	20%	25	—	25.2	160	1.0	155	PCD1057CT-ND	.28	2.31	18.15	PCD1057TR-ND	99.00/M	ELJ-FCR47MF
0.56µH	20%	25	—	25.2	150	1.1	150	PCD1058CT-ND	.28	2.31	18.15	PCD1058TR-ND	99.00/M	ELJ-FCR56MF

(Continued)

Inductance	Tolerance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	T/R Pricing 2,000	Panasonic Part No.
									1	10	100			
0.68µH	20%	25	—	25.2	135	1.25	140	PCD1059CT-ND	.28	2.31	18.15	PCD1059TR-ND	99.00/M	ELJ-FCR68MF
0.82µH	20%	25	—	25.2	125	1.4	130	PCD1060CT-ND	.28	2.31	18.15	PCD1060TR-ND	99.00/M	ELJ-FCR82MF
Fig. 6, 1008 (2520) — Type FC (10% Tolerance)														
0.22µH	10%	25	—	25.2	230	0.70	190	PCD1220CT-ND	.28	2.31	18.15	PCD1220TR-ND	99.00/M	ELJ-FCR22KF
0.27µH	10%	25	—	25.2	210	0.75	180	PCD1221CT-ND	.28	2.31	18.15	PCD1221TR-ND	99.00/M	ELJ-FCR27KF
0.33µH	10%	25	—	25.2	190	0.85	170	PCD1222CT-ND	.28	2.31	18.15	PCD1222TR-ND	99.00/M	ELJ-FCR33KF
0.39µH	10%	25	—	25.2	175	0.95	160	PCD1223CT-ND	.28	2.31	18.15	PCD1223TR-ND	99.00/M	ELJ-FCR39KF
0.47µH	10%	25	—	25.2	160	1.00	155	PCD1224CT-ND	.28	2.31	18.15	PCD1224TR-ND	99.00/M	ELJ-FCR47KF
0.56µH	10%	25	—	25.2	150	1.10	150	PCD1225CT-ND	.28	2.31	18.15	PCD1225TR-ND	99.00/M	ELJ-FCR56KF
0.68µH	10%	25	—	25.2	135	1.25	140	PCD1226CT-ND	.28	2.31	18.15	PCD1226TR-ND	99.00/M	ELJ-FCR68KF
0.82µH	10%	25	—	25.2	125	1.40	130	PCD1227CT-ND	.28	2.31	18.15	PCD1227TR-ND	99.00/M	ELJ-FCR82KF
1.0µH	10%	25	—	7.96	115	0.65	195	PCD1061CT-ND	.28	2.31	18.15	PCD1061TR-ND	99.00/M	ELJ-FC1R0KF
1.2µH	10%	25	—	7.96	100	0.75	180	PCD1062CT-ND	.28	2.31	18.15	PCD1062TR-ND	99.00/M	ELJ-FC1R2KF
1.5µH	10%	25	—	7.96	90	0.85	170	PCD1063CT-ND	.28	2.31	18.15	PCD1063TR-ND	99.00/M	ELJ-FC1R5KF
1.8µH	10%	25	—	7.96	85	0.95	160	PCD1064CT-ND	.28	2.31	18.15	PCD1064TR-ND	99.00/M	ELJ-FC1R8KF
2.2µH	10%	25	—	7.96	80	1.05	155	PCD1065CT-ND	.28	2.31	18.15	PCD1065TR-ND	99.00/M	ELJ-FC2R2KF
2.7µH	10%	25	—	7.96	75	1.2	145	PCD1066CT-ND	.28	2.31	18.15	PCD1066TR-ND	99.00/M	ELJ-FC2R7KF
3.3µH	10%	25	—	7.96	65	1.3	135	PCD1067CT-ND	.28	2.31	18.15	PCD1067TR-ND	99.00/M	ELJ-FC3R3KF
3.9µH	10%	25	—	7.96	60	1.4	130	PCD1068CT-ND	.28	2.31	18.15	PCD1068TR-ND	99.00/M	ELJ-FC3R9KF
4.7µH	10%	25	—	7.96	55	1.55	125	PCD1069CT-ND	.28	2.31	18.15	PCD1069TR-ND	99.00/M	ELJ-FC4R7KF
5.6µH	10%	25	—	7.96	50	1.75	120	PCD1070CT-ND	.28	2.31	18.15	PCD1070TR-ND	99.00/M	ELJ-FC5R6KF
6.8µH	10%	25	—	7.96	45	1.95	115	PCD1071CT-ND	.28	2.31	18.15	PCD1071TR-ND	99.00/M	ELJ-FC6R8KF
8.2µH	10%	25	—	7.96	40	2.2	105	PCD1072CT-ND	.28	2.31	18.15	PCD1072TR-ND	99.00/M	ELJ-FC8R2KF
10µH	10%	25	—	2.52	32	3.5	80	PCD1073CT-ND	.28	2.31	18.15	PCD1073TR-ND	99.00/M	ELJ-FC100KF
12µH	10%	25	—	2.52	30	3.8	75	PCD1074CT-ND	.28	2.31	18.15	PCD1074TR-ND	99.00/M	ELJ-FC120KF
15µH	10%	25	—	2.52	28	4.4	70	PCD1075CT-ND	.28	2.31	18.15	PCD1075TR-ND	99.00/M	ELJ-FC150KF
18µH	10%	25	—	2.52	25	5.0	65	PCD1076CT-ND	.28	2.31	18.15	PCD1076TR-ND	99.00/M	ELJ-FC180KF
22µH	10%	25	—	2.52	22	5.8	60	PCD1077CT-ND	.28	2.31	18.15	PCD1077TR-ND	99.00/M	ELJ-FC220KF
Fig. 6, 1008 (2520) — Type FC (5% Tolerance)														
1.0µH	5%	25	—	7.96	115	0.65	195	PCD1228CT-ND	.28	2.31	18.15	PCD1228TR-ND	99.00/M	ELJ-FC1R0JF
1.2µH	5%	25	—	7.96	100	0.75	180	PCD1229CT-ND	.28	2.31	18.15	PCD1229TR-ND	99.00/M	ELJ-FC1R2JF
1.5µH	5%	25	—	7.96	90	0.85	170	PCD1230CT-ND	.28	2.31	18.15	PCD1230TR-ND	99.00/M	ELJ-FC1R5JF
1.8µH	5%	25	—	7.96	85	0.95	160	PCD1231CT-ND	.28	2.31	18.15	PCD1231TR-ND	99.00/M	ELJ-FC1R8JF
2.2µH	5%	25	—	7.96	80	1.05	155	PCD1232CT-ND	.28	2.31	18.15	PCD1232TR-ND	99.00/M	ELJ-FC2R2JF
2.7µH	5%	25	—	7.96	75	1.20	145	PCD1233CT-ND	.28	2.31	18.15	PCD1233TR-ND	99.00/M	ELJ-FC2R7JF
3.3µH	5%	25	—	7.96	65	1.30	135	PCD1234CT-ND	.28	2.31	18.15	PCD1234TR-ND	99.00/M	ELJ-FC3R3JF
3.9µH	5%	25	—	7.96	60	1.40	130	PCD1235CT-ND	.28	2.31	18.15	PCD1235TR-ND	99.00/M	ELJ-FC3R9JF
4.7µH	5%	25	—	7.96	55	1.55	125	PCD1236CT-ND	.28	2.31	18.15	PCD1236TR-ND	99.00/M	ELJ-FC4R7JF
5.6µH	5%	25	—	7.96	50	1.75	120	PCD1237CT-ND	.28	2.31	18.15	PCD1237TR-ND	99.00/M	ELJ-FC5R6JF
6.8µH	5%	25	—	7.96	45	1.95	115	PCD1238CT-ND	.28	2.31	18.15	PCD1238TR-ND	99.00/M	ELJ-FC6R8JF
8.2µH	5%	25	—	7.96	40	2.2	105	PCD1239CT-ND	.28	2.31	18.15	PCD1239TR-ND	99.00/M	ELJ-FC8R2JF
10µH	5%	25	—	2.52	32	3.5	80	PCD1240CT-ND	.28	2.31	18.15	PCD1240TR-ND	99.00/M	ELJ-FC100JF
12µH	5%	25	—	2.52	30	3.8	75	PCD1241CT-ND	.28	2.31	18.15	PCD1241TR-ND	99.00/M	ELJ-FC120JF
15µH	5%	25	—	2.52	28	4.4	70	PCD1242CT-ND	.28	2.31	18.15	PCD1242TR-ND	99.00/M	ELJ-FC150JF
18µH	5%	25	—	2.52	25	5.0	65	PCD1243CT-ND	.28	2.31	18.15	PCD1243TR-ND	99.00/M	ELJ-FC180JF
22µH	5%	25	—	2.52	22	5.8	60	PCD1244CT-ND	.28	2.31	18.15	PCD1244TR-ND	99.00/M	ELJ-FC220JF
27µH	5%	20	—	2.52	21	6.3	115	PCD1245CT-ND	.28	2.31	18.15	PCD1245TR-ND	99.00/M	ELJ-FC270JF
33µH	5%	20	—	2.52	20	7.1	110	PCD1246CT-ND	.28	2.31	18.15	PCD1246TR-ND	99.00/M	ELJ-FC330JF
39µH	5%	20	—	2.52	18	9.5	90	PCD1247CT-ND	.28	2.31	18.15	PCD1247TR-ND	99.00/M	ELJ-FC390JF
47µH	5%	20	—	2.52	17	11.00	80	PCD1248CT-ND	.28	2.31	18.15	PCD1248TR-ND	99.00/M	ELJ-FC470JF
56µH	5%	20	—	2.52	16	12.1	75	PCD1249CT-ND	.28	2.31	18.15	PCD1249TR-ND	99.00/M	ELJ-FC560JF
68µH	5%	20	—	2.52	15	16.6	70	PCD1250CT-ND	.28	2.31	18.15	PCD1250TR-ND	99.00/M	ELJ-FC680JF
82µH	5%	20	—	2.52	13	19.0	65	PCD1251CT-ND	.28	2.31	18.15	PCD1251TR-ND	99.00/M	ELJ-FC820JF
100µH	5%	15	—	0.796	12	21.0	60	PCD1252CT-ND	.28	2.31	18.15	PCD1252TR-ND	99.00/M	ELJ-FC101JF
Fig. 6, 1008 (2520) — Type SC (10% Tolerance)														
27µH	10%	40	—	2.52	20	4.5	18	PCD1078CT-ND	.28	2.31	18.15	PCD1078TR-ND	99.00/M	ELJ-SC270KF
33µH	10%	40	—	2.52	18	5.2	14	PCD1079CT-ND	.28	2.31	18.15	PCD1079TR-ND	99.00/M	ELJ-SC330KF
39µH	10%	40	—	2.52	15	5.7	13	PCD1080CT-ND	.28	2.31	18.15	PCD1080TR-ND	99.00/M	ELJ-SC390KF
47µH	10%	40	—	2.52	14	6.6	12	PCD1081CT-ND	.28	2.31	18.15	PCD1081TR-ND	99.00/M	ELJ-SC470KF
56µH	10%	40	—	2.52	13	7.1	10	PCD1082CT-ND	.28	2.31	18.15	PCD1082TR-ND	99.00/M	ELJ-SC560KF
68µH	10%	25	—	2.52	13	6.5	17	PCD1083CT-ND	.28	2.31	18.15	PCD1083TR-ND	99.00/M	ELJ-SC680KF
82µH	10%	25	—	2.52	13	7.4	14	PCD1084CT-ND	.28	2.31	18.15	PCD1084TR-ND	99.00/M	ELJ-SC820KF
100µH	10%	25	—	0.796	12	8.4	10	PCD1085CT-ND	.28	2.31	18.15	PCD1085TR-ND	99.00/M	ELJ-SC101KF
Fig. 6, 1008 (2520) — Type PC														
1.0µH	20%	10	—	7.96	95	0.45	475	PCD1086CT-ND	.28	2.31	18.15	PCD1086TR-ND	99.00/M	ELJ-PC1R0MF
1.5µH	20%	10	—	7.96	85	0.55	435	PCD1087CT-ND	.28	2.31	18.15	PCD1087TR-ND	99.00/M	ELJ-PC1R5MF
2.2µH	20%	10	—	7.96	65	0.65	390	PCD1088CT-ND	.28	2.31	18.15	PCD1088TR-ND	99.00/M	ELJ-PC2R2MF
3.3µH	20%	8	—	7.96	55	0.85	340	PCD1089CT-ND	.28	2.31	18.15	PCD1089TR-ND	99.00/M	ELJ-PC3R3MF
4.7µH	20%	8	—	7.96	43	1.2	285	PCD1090CT-ND	.28	2.31	18.15	PCD1090TR-ND	99.00/M	ELJ-PC4R7MF
6.8µH	10%	8	—	7.96	39	1.3	275	PCD1091CT-ND	.28	2.31	18.15	PCD1091TR-ND	99.00/M	ELJ-PC6R8KF
10µH	10%	20	—	2.52	32	2.2	210	PCD1092CT-ND	.28	2.31	18.15	PCD1092TR-ND	99.00/M	ELJ-PC100KF
12µH	10%	20	—	2.52	25	2.7	195	PCD1093CT-ND	.28	2.31	18.15	PCD1093TR-ND	99.00/M	ELJ-PC120KF
15µH	10%	20	—	2.52	21	3.2	175	PCD1094CT-ND	.28	2.31	18.15	PCD1094TR-ND	99.00/M	ELJ-PC150KF
22µH	10%	20	—	2.52	18	4.0	160	PCD1095CT-ND	.28	2.31	18.15	PCD1095TR-ND	99.00/M	ELJ-PC220KF
33µH	10%	20	—	2.52	16	6.5	120	PCD1096CT-ND	.28	2.31	18.15	PCD1096TR-ND	99.00/M	ELJ-PC330KF
Fig. 7, 1210 (3225) — Type FA														
0.22µH	20%	25	—	25.2	230	0.29	360	PCD1000CT-ND	.28	2.31	18.15	PCD1000TR-ND	99.00/M	ELJ-FAR22MF2
0.27µH	20%	25	—	25.2	210	0.32	345	PCD1001CT-ND	.28	2.31	18.15	PCD1001TR-ND	99.00/M	ELJ-FAR27MF2
0.33µH	20%	25	—	25.2	190	0.35	330	PCD1002CT-ND	.28	2.31	18.15	PCD1002TR-ND	99.00/M	ELJ-FAR33MF2
0.39µH	20%	25	—	25.2	175	0.39	305	PCD1003CT-ND	.28	2.31	18.15	PCD1003TR-ND	99.00/M	ELJ-FAR39MF2
0.47µH	20%	25	—	25.2	160	0.44	290	PCD1004CT-ND	.28	2.31	18.15	PCD1004TR-ND	99.00/M	ELJ-FAR47MF2
0.56µH	20%	25	—	25.2	150	0.49	275	PCD1005CT-ND	.28	2.31	18.15	PCD1005TR-ND	99.00/M	ELJ-FAR56MF2
0.68µH	20%	25	—	25.2	135	0.55	260	PCD1006CT-ND	.28	2.31	18.15	PCD1006TR-ND	99.00/M	ELJ-FAR68MF2
0.82µH	20%	25	—	25.2	125	0.61	245	PCD1007CT-ND	.28	2.31	18.15	PCD1007TR-ND	99.00/M	ELJ-FAR82MF2
1.0µH	10%	30	—	7.96	115	0.69	230	PCD1008CT-ND	.28	2.31	18.15	PCD1008TR-ND	99.00/M	ELJ-FA1R0KF2
1.2µH	10%	30	—	7.96	100	0.75	215	PCD1009CT-ND	.28	2.31	18.15	PCD1009TR-ND	99.00/M	ELJ-FA1R2KF2
1.5µH	10%	30	—	7.96	90	0.75	210	PCD1010CT-ND	.28	2.31	18.15	PCD1010TR-ND	99.00/M	ELJ-FA1R5KF
1.8µH	10%	30	—	7.96	85	0.82	200	PCD1011CT-ND	.28	2.31	18.15	PCD1011TR-ND	99.00/M	ELJ-FA1R8KF
2.2µH	10%	30	—	7.96	80	0.95	190	PCD1012CT-ND	.28	2.31	18.15	PCD1012TR-ND	99.00/M	ELJ-FA2R2KF
2.7µH	10%	30	—	7.96	75	1.1	180	PCD1013CT-ND	.28	2.31	18.15	PCD1013TR-ND	99.00/M	ELJ-FA2R7KF
3.3µH	10%	30	—	7.96	65	1.2	180	PCD1014CT-ND	.28	2.31	18.15	PCD1014TR-ND	99.00/M	ELJ-FA3R3KF
3.9µH	10%	30	—	7.96	60	1.3	175	PCD1015CT-ND	.28	2.31	18.15	PCD1015TR-ND	99.00/M	ELJ-FA3R9KF
4.7µH	10%	30	—	7.96	55	1.5	165	PCD1016CT-ND	.28	2.31	18.15	PCD1016TR-ND	99.00/M	ELJ-FA4R7KF
5.6µH	10%	30	—	7.96	50	1.6	160	PCD1261CT-ND	.28	2.31	18.15	PCD1261TR-ND	99.00/M	ELJ-FA5R6KF
6.8µH	10%	30	—	7.96	45	1.8	150	PCD1262CT-ND	.28	2.31	18.15	PCD1262TR-ND	99.00/M	ELJ-FA6R8KF
8.2µH	10%	30	—	7.96	40	2.0	140	PCD1263CT-ND	.28	2.31	18.15	PCD1263TR-ND	99.00/M	ELJ-FA8R2KF
10µH	10%	30	—	2.52	36	2.1	140	PCD1020CT-ND	.28	2.31	18.15	PCD1020TR-ND	99.00/M	ELJ-FA100KF
12µH	10%	30	—	2.52	33	2.5	125	PCD1021CT-ND	.28	2.31	18.15	PCD1021TR-ND	99.00/M	ELJ-FA120KF
15µH	10%	30	—	2.52	30	2.8	120	PCD1022CT-ND	.28	2.31	18.15	PCD1022TR-ND	99.00/M	ELJ-FA150KF
18µH	10%	30	—	2.52	27	3.3	110	PCD1023CT-ND	.28	2.31	18.15	PCD1023TR-ND	99.00/M	ELJ-FA180KF
22µH	10%	30	—	2.52	25	3.7	105	PCD1024CT-ND	.28	2.31	18.15	PCD1024TR-ND	99.00/M	ELJ-FA220KF

(Continued)

Panasonic Surface Mount Inductors *(Cont.)*

Inductance	Tolerance	Q Min.	Q Typ. @ 800 MHz	L,Q Test Freq. (MHz)	S.R.F. Min. (MHz)	RDC Max. (Ohm)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T/R Pricing 2,000	Panasonic Part No.
27µH	10%	30	—	2.52	22	5.0	90	PCD1025CT-ND	.28	2.31	18.15	PCD1025TR-ND	99.00/M	ELJ-FA270KF
33µH	10%	30	—	2.52	20	5.6	85	PCD1026CT-ND	.28	2.31	18.15	PCD1026TR-ND	99.00/M	ELJ-FA330KF
39µH	10%	30	—	2.52	20	6.4	80	PCD1027CT-ND	.28	2.31	18.15	PCD1027TR-ND	99.00/M	ELJ-FA390KF
47µH	10%	30	—	2.52	15	7.0	75	PCD1028CT-ND	.28	2.31	18.15	PCD1028TR-ND	99.00/M	ELJ-FA470KF
56µH	10%	30	—	2.52	15	8.0	70	PCD1029CT-ND	.28	2.31	18.15	PCD1029TR-ND	99.00/M	ELJ-FA560KF
68µH	10%	30	—	2.52	15	9.0	65	PCD1030CT-ND	.28	2.31	18.15	PCD1030TR-ND	99.00/M	ELJ-FA680KF
82µH	10%	30	—	2.52	11	10.0	60	PCD1031CT-ND	.28	2.31	18.15	PCD1031TR-ND	99.00/M	ELJ-FA820KF
100µH	10%	20	—	0.796	10	10.0	60	PCD1032CT-ND	.28	2.31	18.15	PCD1032TR-ND	99.00/M	ELJ-FA101KF
120µH	10%	20	—	0.796	10	11.0	55	PCD1033CT-ND	.28	2.31	18.15	PCD1033TR-ND	99.00/M	ELJ-FA121KF
150µH	10%	20	—	0.796	8.0	15.0	50	PCD1034CT-ND	.28	2.31	18.15	PCD1034TR-ND	99.00/M	ELJ-FA151KF
180µH	10%	20	—	0.796	7.0	17.0	50	PCD1035CT-ND	.28	2.31	18.15	PCD1035TR-ND	99.00/M	ELJ-FA181KF
220µH	10%	20	—	0.796	7.0	21.0	45	PCD1036CT-ND	.28	2.31	18.15	PCD1036TR-ND	99.00/M	ELJ-FA221KF
Fig. 7, 1210 (3225) — Type FA (5% Tolerance)														
1.0µH	5%	30	—	7.96	115	0.69	230	PCD1825CT-ND	.28	2.31	18.17	PCD1825TR-ND	99.00/M	ELJ-FA1R0JF2
1.2µH	5%	30	—	7.96	100	0.75	215	PCD1826CT-ND	.28	2.31	18.17	PCD1826TR-ND	99.00/M	ELJ-FA1R2JF2
1.5µH	5%	30	—	7.96	90	0.75	210	PCD1827CT-ND	.28	2.31	18.17	PCD1827TR-ND	99.00/M	ELJ-FA1R5JF
1.8µH	5%	30	—	7.96	85	0.82	200	PCD1828CT-ND	.28	2.31	18.17	PCD1828TR-ND	99.00/M	ELJ-FA1R8JF
2.2µH	5%	30	—	7.96	80	0.95	190	PCD1832CT-ND	.28	2.31	18.17	PCD1832TR-ND	99.00/M	ELJ-FA2R2JF
2.7µH	5%	30	—	7.96	75	1.1	180	PCD1833CT-ND	.28	2.31	18.17	PCD1833TR-ND	99.00/M	ELJ-FA2R7JF
3.3µH	5%	30	—	7.96	65	1.2	180	PCD1836CT-ND	.28	2.31	18.17	PCD1836TR-ND	99.00/M	ELJ-FA3R3JF
3.9µH	5%	30	—	7.96	60	1.3	175	PCD1837CT-ND	.28	2.31	18.17	PCD1837TR-ND	99.00/M	ELJ-FA3R9JF
4.7µH	5%	30	—	7.96	55	1.5	165	PCD1839CT-ND	.28	2.31	18.17	PCD1839TR-ND	99.00/M	ELJ-FA4R7JF
5.6µH	5%	30	—	7.96	50	1.6	160	PCD1841CT-ND	.28	2.31	18.17	PCD1841TR-ND	99.00/M	ELJ-FA5R6JF
6.8µH	5%	30	—	7.96	45	1.8	150	PCD1843CT-ND	.28	2.31	18.17	PCD1843TR-ND	99.00/M	ELJ-FA6R8JF
8.2µH	5%	30	—	7.96	40	2.0	140	PCD1845CT-ND	.28	2.31	18.17	PCD1845TR-ND	99.00/M	ELJ-FA8R2JF
10µH	5%	30	—	2.52	36	2.1	140	PCD1817CT-ND	.28	2.31	18.17	PCD1817TR-ND	99.00/M	ELJ-FA100JF
12µH	5%	30	—	2.52	33	2.5	125	PCD1819CT-ND	.28	2.31	18.17	PCD1819TR-ND	99.00/M	ELJ-FA120JF
15µH	5%	30	—	2.52	30	2.8	120	PCD1821CT-ND	.28	2.31	18.17	PCD1821TR-ND	99.00/M	ELJ-FA150JF
18µH	5%	30	—	2.52	27	3.3	110	PCD1823CT-ND	.28	2.31	18.17	PCD1823TR-ND	99.00/M	ELJ-FA180JF
22µH	5%	30	—	2.52	25	3.7	105	PCD1829CT-ND	.28	2.31	18.17	PCD1829TR-ND	99.00/M	ELJ-FA220JF
27µH	5%	30	—	2.52	22	5.0	90	PCD1831CT-ND	.28	2.31	18.17	PCD1831TR-ND	99.00/M	ELJ-FA270JF
33µH	5%	30	—	2.52	20	5.6	85	PCD1834CT-ND	.28	2.31	18.17	PCD1834TR-ND	99.00/M	ELJ-FA330JF
39µH	5%	30	—	2.52	20	6.4	80	PCD1835CT-ND	.28	2.31	18.17	PCD1835TR-ND	99.00/M	ELJ-FA390JF
47µH	5%	30	—	2.52	15	7.0	75	PCD1838CT-ND	.28	2.31	18.17	PCD1838TR-ND	99.00/M	ELJ-FA470JF
56µH	5%	30	—	2.52	15	8.0	70	PCD1840CT-ND	.28	2.31	18.17	PCD1840TR-ND	99.00/M	ELJ-FA560JF
68µH	5%	30	—	2.52	15	9.0	65	PCD1842CT-ND	.28	2.31	18.17	PCD1842TR-ND	99.00/M	ELJ-FA680JF
82µH	5%	30	—	2.52	11	10	60	PCD1844CT-ND	.28	2.31	18.17	PCD1844TR-ND	99.00/M	ELJ-FA820JF
100µH	5%	20	—	0.796	10	10	60	PCD1818CT-ND	.28	2.31	18.17	PCD1818TR-ND	99.00/M	ELJ-FA101JF
120µH	5%	20	—	0.796	10	11	55	PCD1820CT-ND	.28	2.31	18.17	PCD1820TR-ND	99.00/M	ELJ-FA121JF
150µH	5%	20	—	0.796	8	15	50	PCD1822CT-ND	.28	2.31	18.17	PCD1822TR-ND	99.00/M	ELJ-FA151JF
180µH	5%	20	—	0.796	7	17	50	PCD1824CT-ND	.28	2.31	18.17	PCD1824TR-ND	99.00/M	ELJ-FA181JF
220µH	5%	20	—	0.796	7	21	45	PCD1830CT-ND	.28	2.31	18.17	PCD1830TR-ND	99.00/M	ELJ-FA221JF
Fig. 7, 1210 (3225) — Type NA														
0.047µH	20%	10	—	100	680	0.20	450	PCD1115CT-ND	.28	2.31	18.15	PCD1115TR-ND	99.00/M	ELJ-NA47NMF
0.056µH	20%	10	—	100	600	0.22	420	PCD1116CT-ND	.28	2.31	18.15	PCD1116TR-ND	99.00/M	ELJ-NA56NMF
0.068µH	20%	10	—	100	540	0.25	400	PCD1117CT-ND	.28	2.31	18.15	PCD1117TR-ND	99.00/M	ELJ-NA68NMF
0.082µH	20%	10	—	100	500	0.27	380	PCD1118CT-ND	.28	2.31	18.15	PCD1118TR-ND	99.00/M	ELJ-NA82NMF
0.10µH	20%	10	—	100	450	0.30	360	PCD1119CT-ND	.28	2.31	18.15	PCD1119TR-ND	99.00/M	ELJ-NAR10MF
0.12µH	20%	10	—	25.2	400	0.67	240	PCD1120CT-ND	.28	2.31	18.15	PCD1120TR-ND	99.00/M	ELJ-NAR12MF
0.15µH	20%	10	—	25.2	350	0.72	230	PCD1121CT-ND	.28	2.31	18.15	PCD1121TR-ND	99.00/M	ELJ-NAR15MF
0.18µH	20%	10	—	25.2	320	0.81	220	PCD1122CT-ND	.28	2.31	18.15	PCD1122TR-ND	99.00/M	ELJ-NAR18MF
0.22µH	10%	10	—	1.0, 25.2	280	0.90	210	PCD1123CT-ND	.28	2.31	18.15	PCD1123TR-ND	99.00/M	ELJ-NAR22KF
0.27µH	10%	10	—	1.0, 25.2	250	1.0	200	PCD1124CT-ND	.28	2.31	18.15	PCD1124TR-ND	99.00/M	ELJ-NAR27KF
0.33µH	10%	10	—	1.0, 25.2	220	1.1	190	PCD1125CT-ND	.28	2.31	18.15	PCD1125TR-ND	99.00/M	ELJ-NAR33KF
0.39µH	10%	10	—	1.0, 25.2	200	1.2	180	PCD1126CT-ND	.28	2.31	18.15	PCD1126TR-ND	99.00/M	ELJ-NAR39KF
0.47µH	10%	10	—	1.0, 25.2	180	1.4	175	PCD1127CT-ND	.28	2.31	18.15	PCD1127TR-ND	99.00/M	ELJ-NAR47KF
0.56µH	10%	10	—	1.0, 25.2	160	1.5	170	PCD1128CT-ND	.28	2.31	18.15	PCD1128TR-ND	99.00/M	ELJ-NAR56KF
0.68µH	10%	10	—	1.0, 25.2	150	1.7	155	PCD1129CT-ND	.28	2.31	18.15	PCD1129TR-ND	99.00/M	ELJ-NAR68KF
0.82µH	10%	10	—	1.0, 25.2	135	1.9	145	PCD1130CT-ND	.28	2.31	18.15	PCD1130TR-ND	99.00/M	ELJ-NAR82KF
1.0µH	5%	13	—	1.0, 7.96	120	2.1	125	PCD1131CT-ND	.28	2.31	18.15	PCD1131TR-ND	99.00/M	ELJ-NA1ROJF
1.2µH	5%	13	—	1.0, 7.96	110	2.3	120	PCD1132CT-ND	.28	2.31	18.15	PCD1132TR-ND	99.00/M	ELJ-NA1R2JF
1.5µH	5%	13	—	1.0, 7.96	95	2.7	115	PCD1133CT-ND	.28	2.31	18.15	PCD1133TR-ND	99.00/M	ELJ-NA1R5JF
1.8µH	5%	13	—	1.0, 7.96	85	3.0	110	PCD1134CT-ND	.28	2.31	18.15	PCD1134TR-ND	99.00/M	ELJ-NA1R8JF
2.2µH	5%	13	—	1.0, 7.96	80	3.2	110	PCD1135CT-ND	.28	2.31	18.15	PCD1135TR-ND	99.00/M	ELJ-NA2R2JF
2.7µH	5%	13	—	1.0, 7.96	70	3.6	105	PCD1136CT-ND	.28	2.31	18.15	PCD1136TR-ND	99.00/M	ELJ-NA2R7JF
3.3µH	5%	13	—	1.0, 7.96	62	4.2	100	PCD1137CT-ND	.28	2.31	18.15	PCD1137TR-ND	99.00/M	ELJ-NA3R3JF
3.9µH	5%	13	—	1.0, 7.96	57	4.4	95	PCD1138CT-ND	.28	2.31	18.15	PCD1138TR-ND	99.00/M	ELJ-NA3R9JF
4.7µH	5%	13	—	1.0, 7.96	52	7.7	70	PCD1139CT-ND	.28	2.31	18.15	PCD1139TR-ND	99.00/M	ELJ-NA4R7JF
5.6µH	5%	13	—	1.0, 7.96	46	8.7	65	PCD1140CT-ND	.28	2.31	18.15	PCD1140TR-ND	99.00/M	ELJ-NA5R6JF
6.8µH	5%	13	—	1.0, 7.96	42	10.0	60	PCD1141CT-ND	.28	2.31	18.15	PCD1141TR-ND	99.00/M	ELJ-NA6R8JF
8.2µH	5%	13	—	1.0, 7.96	38	11.0	60	PCD1142CT-ND	.28	2.31	18.15	PCD1142TR-ND	99.00/M	ELJ-NA8R2JF
Fig. 7, 1210 (3225) — Type SA (10% Tolerance)														
10µH	10%	40	—	1.0, 5.0	30	1.8	18	PCD1097CT-ND	.28	2.31	18.15	PCD1097TR-ND	99.00/M	ELJ-SA100KF
12µH	10%	40	—	1.0, 5.0	28	2.0	17	PCD1098CT-ND	.28	2.31	18.15	PCD1098TR-ND	99.00/M	ELJ-SA120KF
15µH	10%	40	—	1.0, 5.0	25	2.2	15	PCD1099CT-ND	.28	2.31	18.15	PCD1099TR-ND	99.00/M	ELJ-SA150KF
18µH	10%	40	—	1.0, 5.0	23	2.5	13	PCD1100CT-ND	.28	2.31	18.15	PCD1100TR-ND	99.00/M	ELJ-SA180KF
22µH	10%	40	—	1.0, 5.0	20	2.8	12	PCD1101CT-ND	.28	2.31	18.15	PCD1101TR-ND	99.00/M	ELJ-SA220KF
27µH	10%	40	—	1.0, 5.0	18	3.2	10	PCD1102CT-ND	.28	2.31	18.15	PCD1102TR-ND	99.00/M	ELJ-SA270KF
33µH	10%	40	—	1.0, 5.0	17	3.5	10	PCD1103CT-ND	.28	2.31	18.15	PCD1103TR-ND	99.00/M	ELJ-SA330KF
39µH	10%	40	—	1.0, 5.0	15	3.8	9.0	PCD1104CT-ND	.28	2.31	18.15	PCD1104TR-ND	99.00/M	ELJ-SA390KF
47µH	10%	40	—	1.0, 5.0	14	4.0	8.0	PCD1105CT-ND	.28	2.31	18.15	PCD1105TR-ND	99.00/M	ELJ-SA470KF
56µH	10%	40	—	1.0, 5.0	13	4.5	7.0	PCD1106CT-ND	.28	2.31	18.15	PCD1106TR-ND	99.00/M	ELJ-SA560KF
68µH	10%	40	—	1.0, 1.5	12	5.0	6.0	PCD1107CT-ND	.28	2.31	18.15	PCD1107TR-ND	99.00/M	ELJ-SA680KF
82µH	10%	40	—	1.0, 1.5	11	6.0	6.0	PCD1108CT-ND	.28	2.31	18.15	PCD1108TR-ND	99.00/M	ELJ-SA820KF
100µH	10%	40	—	1.0, 1.5	10	7.0	5.0	PCD1109CT-ND	.28	2.31	18.15	PCD1109TR-ND	99.00/M	ELJ-SA101KF
120µH	10%	40	—	1.0, 1.5	9.0	8.0	5.0	PCD1110CT-ND	.28	2.31	18.15	PCD1110TR-ND	99.00/M	ELJ-SA121KF
150µH	10%	40	—	0.1, 1.5	5.0	9.0	5.0	PCD1111CT-ND	.28	2.31	18.15	PCD1111TR-ND	99.00/M	ELJ-SA151KF
180µH	10%	40	—	0.1, 1.5	5.0	11.0	5.0	PCD1112CT-ND	.28	2.31	18.15	PCD1112TR-ND	99.00/M	ELJ-SA181KF
220µH	10%	40	—	0.1, 1.5	4.0	12.0	5.0	PCD1113CT-ND	.28	2.31	18.15	PCD1113TR-ND	99.00/M	ELJ-SA221KF
270µH	10%	40	—	0.1, 1.5	4.0	14.0	5.0	PCD1114CT-ND	.28	2.31	18.15	PCD1114TR-ND	99.00/M	ELJ-SA271KF
Fig. 7, 1210 (3225) — Type EA														
1.0µH	20%	7	—	7.96	100	0.09	500	PCD1417CT-ND	.35	2.91	22.83	PCD1417TR-ND	125.00/M	ELJ-EA1R0MF
1.5µH	20%	7	—	7.96	80	0.10	390	PCD1418CT-ND	.35	2.91	22.83	PCD1418TR-ND	125.00/M	ELJ-EA1R5MF
2.2µH	20%	7	—	7.96	65	0.13	350	PCD1419CT-ND	.35	2.91	22.83	PCD1419TR-ND	125.00/M	ELJ-EA2R2MF
3.3µH	20%	7	—	7.96	50	0.16	270	PCD1420CT-ND	.35	2.91	22.83	PCD1420TR-ND	125.00/M	ELJ-EA3R3MF
4.7µH	20%	7	—	7.96	46	0.18	240	PCD1421CT-ND	.35	2.91	22.83	PCD1421TR-ND	125.00/M	ELJ-EA4R7MF
6.8µH	20%	7	—	7.96	36	0.25	200	PCD1422CT-ND	.35	2.91	22.83	PCD1422TR-ND	125.00/M	ELJ-EA6R8MF

(Continued)

Panasonic® Surface Mount Inductors *(Cont.)*

Inductance	Tolerance	Q Typ. @ Q Min.	L,Q Test 800 MHz	S.R.F. Min. Freq. (MHz)	RDC Max. (MHz)	IDC Max. (Ohm)	Digi-Key (mA)	Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T/R Pricing 2,000	Panasonic Part No
10µH	10%	10	—	2.52	29	0.34	160	PCD1423CT-ND	.35	2.91	22.83	PCD1423TR-ND	125.00/M	ELJ-EA100KF
15µH	10%	10	—	2.52	25	0.42	145	PCD1424CT-ND	.35	2.91	22.83	PCD1424TR-ND	125.00/M	ELJ-EA150KF
22µH	10%	10	—	2.52	18	0.65	115	PCD1425CT-ND	.35	2.91	22.83	PCD1425TR-ND	125.00/M	ELJ-EA220KF
33µH	10%	10	—	2.52	16	0.91	95	PCD1426CT-ND	.35	2.91	22.83	PCD1426TR-ND	125.00/M	ELJ-EA330KF
47µH	10%	10	—	2.52	13	1.30	80	PCD1427CT-ND	.35	2.91	22.83	PCD1427TR-ND	125.00/M	ELJ-EA470KF
68µH	10%	10	—	2.52	10	1.95	60	PCD1428CT-ND	.35	2.91	22.83	PCD1428TR-ND	125.00/M	ELJ-EA680KF
100µH	10%	20	—	0.796	8.0	3.12	50	PCD1429CT-ND	.35	2.91	22.83	PCD1429TR-ND	125.00/M	ELJ-EA101KF
150µH	10%	20	—	0.796	7.0	4.03	45	PCD1430CT-ND	.35	2.91	22.83	PCD1430TR-ND	125.00/M	ELJ-EA151KF
220µH	10%	20	—	0.796	5.0	7.15	35	PCD1431CT-ND	.35	2.91	22.83	PCD1431TR-ND	125.00/M	ELJ-EA221KF
330µH	10%	20	—	0.796	4.0	9.23	30	PCD1432CT-ND	.35	2.91	22.83	PCD1432TR-ND	125.00/M	ELJ-EA331KF
Fig. 7, 1210 (3225) — Type PA														
1.0µH	20%	7	—	7.96	150	0.15	600	PCD1478CT-ND	.28	2.31	18.15	PCD1478TR-ND	99.00/M	ELJ-PA1R0MF
1.5µH	20%	7	—	7.96	110	0.18	550	PCD1479CT-ND	.28	2.31	18.15	PCD1479TR-ND	99.00/M	ELJ-PA1R5MF
2.2µH	20%	7	—	7.96	80	0.23	500	PCD1480CT-ND	.28	2.31	18.15	PCD1480TR-ND	99.00/M	ELJ-PA2R2MF
3.3µH	20%	7	—	7.96	58	0.28	400	PCD1481CT-ND	.28	2.31	18.15	PCD1481TR-ND	99.00/M	ELJ-PA3R3MF
4.7µH	20%	7	—	7.96	46	0.34	350	PCD1482CT-ND	.28	2.31	18.15	PCD1482TR-ND	99.00/M	ELJ-PA4R7MF
6.8µH	20%	7	—	7.96	38	0.42	300	PCD1483CT-ND	.28	2.31	18.15	PCD1483TR-ND	99.00/M	ELJ-PA6R8MF
10µH	10%	15	—	2.52	23	0.50	240	PCD1484CT-ND	.28	2.31	18.15	PCD1484TR-ND	99.00/M	ELJ-PA100KF
12µH	10%	15	—	2.52	21	0.60	230	PCD1485CT-ND	.28	2.31	18.15	PCD1485TR-ND	99.00/M	ELJ-PA120KF
15µH	10%	15	—	2.52	18	0.74	220	PCD1486CT-ND	.28	2.31	18.15	PCD1486TR-ND	99.00/M	ELJ-PA150KF
18µH	10%	15	—	2.52	17	0.90	205	PCD1487CT-ND	.28	2.31	18.15	PCD1487TR-ND	99.00/M	ELJ-PA180KF
22µH	10%	15	—	2.52	15	1.15	185	PCD1488CT-ND	.28	2.31	18.15	PCD1488TR-ND	99.00/M	ELJ-PA220KF
27µH	10%	15	—	2.52	13	1.45	165	PCD1489CT-ND	.28	2.31	18.15	PCD1489TR-ND	99.00/M	ELJ-PA270KF
33µH	10%	15	—	2.52	12	1.65	155	PCD1490CT-ND	.28	2.31	18.15	PCD1490TR-ND	99.00/M	ELJ-PA330KF
39µH	10%	15	—	2.52	11	1.90	145	PCD1491CT-ND	.28	2.31	18.15	PCD1491TR-ND	99.00/M	ELJ-PA390KF
47µH	10%	15	—	2.52	9.5	2.25	135	PCD1492CT-ND	.28	2.31	18.15	PCD1492TR-ND	99.00/M	ELJ-PA470KF
56µH	10%	15	—	2.52	8.5	3.30	110	PCD1493CT-ND	.28	2.31	18.15	PCD1493TR-ND	99.00/M	ELJ-PA560KF
68µH	10%	15	—	2.52	7.5	3.70	105	PCD1494CT-ND	.28	2.31	18.15	PCD1494TR-ND	99.00/M	ELJ-PA680KF
82µH	10%	15	—	2.52	7.0	4.20	100	PCD1495CT-ND	.28	2.31	18.15	PCD1495TR-ND	99.00/M	ELJ-PA820KF
100µH	10%	20	—	0.796	6.5	5.00	90	PCD1496CT-ND	.28	2.31	18.15	PCD1496TR-ND	99.00/M	ELJ-PA101KF
120µH	10%	20	—	0.796	6.0	7.00	75	PCD1497CT-ND	.28	2.31	18.15	PCD1497TR-ND	99.00/M	ELJ-PA121KF
150µH	10%	20	—	0.796	5.5	8.00	70	PCD1498CT-ND	.28	2.31	18.15	PCD1498TR-ND	99.00/M	ELJ-PA151KF
180µH	10%	20	—	0.796	5.0	9.50	65	PCD1499CT-ND	.28	2.31	18.15	PCD1499TR-ND	99.00/M	ELJ-PA181KF
220µH	10%	20	—	0.796	4.0	11.0	60	PCD1500CT-ND	.28	2.31	18.15	PCD1500TR-ND	99.00/M	ELJ-PA221KF
270µH	10%	20	—	0.796	3.5	14.5	55	PCD1501CT-ND	.28	2.31	18.15	PCD1501TR-ND	99.00/M	ELJ-PA271KF
330µH	10%	20	—	0.796	3.0	16.0	50	PCD1502CT-ND	.28	2.31	18.15	PCD1502TR-ND	99.00/M	ELJ-PA331KF
Inductance	**Tolerance**	**Q Min.**	**Q Typ. @ 800 MHz**	**L,Q Test Freq. (MHz)**	**S.R.F. Min. (MHz)**	**RDC Max. (Ohm)**	**IDC Max. (mA)**	**Digi-Key Part No.**	**Cut Tape Pricing 1**	**10**	**100**	**Digi-Key Part No.**	**T/R Pricing 500**	**Panasonic Part No.**
Fig. 8, 1812 (4532) — Type FB														
.22µH	20%	30	—	25.2	230	0.30	700	PCD1433CT-ND	.51	4.14	27.60	PCD1433TR-ND	80.50	ELJ-FBR22MF
.27µH	20%	30	—	25.2	200	0.32	650	PCD1434CT-ND	.51	4.14	27.60	PCD1434TR-ND	80.50	ELJ-FBR27MF
.33µH	20%	30	—	25.2	180	0.35	630	PCD1435CT-ND	.51	4.14	27.60	PCD1435TR-ND	80.50	ELJ-FBR33MF
.39µH	20%	30	—	25.2	155	0.37	620	PCD1436CT-ND	.51	4.14	27.60	PCD1436TR-ND	80.50	ELJ-FBR39MF
.47µH	20%	30	—	25.2	135	0.40	580	PCD1437CT-ND	.51	4.14	27.60	PCD1437TR-ND	80.50	ELJ-FBR47MF
.56µH	20%	30	—	25.2	120	0.42	560	PCD1438CT-ND	.51	4.14	27.60	PCD1438TR-ND	80.50	ELJ-FBR56MF
.68µH	20%	30	—	25.2	105	0.48	530	PCD1439CT-ND	.51	4.14	27.60	PCD1439TR-ND	80.50	ELJ-FBR68MF
.82µH	20%	30	—	25.2	90	0.50	500	PCD1440CT-ND	.51	4.14	27.60	PCD1440TR-ND	80.50	ELJ-FBR82MF
1.0µH	10%	30	—	25.2	80	0.52	470	PCD1441CT-ND	.51	4.14	27.60	PCD1441TR-ND	80.50	ELJ-FB1R0KF
1.2µH	10%	30	—	25.2	70	0.55	460	PCD1442CT-ND	.51	4.14	27.60	PCD1442TR-ND	80.50	ELJ-FB1R2KF
1.5µH	10%	30	—	25.2	60	0.61	430	PCD1443CT-ND	.51	4.14	27.60	PCD1443TR-ND	80.50	ELJ-FB1R5KF
1.8µH	10%	30	—	25.2	50	0.61	410	PCD1444CT-ND	.51	4.14	27.60	PCD1444TR-ND	80.50	ELJ-FB1R8KF
2.2µH	10%	30	—	7.96	45	0.61	410	PCD1445CT-ND	.51	4.14	27.60	PCD1445TR-ND	80.50	ELJ-FB2R2KF
2.7µH	10%	50	—	7.96	43	0.61	400	PCD1446CT-ND	.51	4.14	27.60	PCD1446TR-ND	80.50	ELJ-FB2R7KF
3.3µH	10%	50	—	7.96	39	0.66	380	PCD1447CT-ND	.51	4.14	27.60	PCD1447TR-ND	80.50	ELJ-FB3R3KF
3.9µH	10%	50	—	7.96	36	0.74	360	PCD1448CT-ND	.51	4.14	27.60	PCD1448TR-ND	80.50	ELJ-FB3R9KF
4.7µH	10%	50	—	5.0	33	0.81	350	PCD1449CT-ND	.51	4.14	27.60	PCD1449TR-ND	80.50	ELJ-FB4R7KF
5.6µH	10%	50	—	5.0	30	0.88	330	PCD1450CT-ND	.51	4.14	27.60	PCD1450TR-ND	80.50	ELJ-FB5R6KF
6.8µH	10%	50	—	5.0	26	1.0	310	PCD1451CT-ND	.51	4.14	27.60	PCD1451TR-ND	80.50	ELJ-FB6R8KF
8.2µH	10%	50	—	5.0	24	1.6	250	PCD1452CT-ND	.51	4.14	27.60	PCD1452TR-ND	80.50	ELJ-FB8R2KF
10µH	5%	50	—	5.0	22	1.8	235	PCD1453CT-ND	.51	4.14	27.60	PCD1453TR-ND	80.50	ELJ-FB100JF
12µH	5%	50	—	5.0	20	1.9	225	PCD1454CT-ND	.51	4.14	27.60	PCD1454TR-ND	80.50	ELJ-FB120JF
15µH	5%	50	—	5.0	18	2.1	215	PCD1455CT-ND	.51	4.14	27.60	PCD1455TR-ND	80.50	ELJ-FB150JF
18µH	5%	50	—	5.0	16	2.3	205	PCD1456CT-ND	.51	4.14	27.60	PCD1456TR-ND	80.50	ELJ-FB180JF
22µH	5%	50	—	2.52	15	2.6	195	PCD1457CT-ND	.51	4.14	27.60	PCD1457TR-ND	80.50	ELJ-FB220JF
27µH	5%	50	—	2.52	13	2.9	185	PCD1458CT-ND	.51	4.14	27.60	PCD1458TR-ND	80.50	ELJ-FB270JF
33µH	5%	50	—	2.52	12	3.1	175	PCD1459CT-ND	.51	4.14	27.60	PCD1459TR-ND	80.50	ELJ-FB330JF
39µH	5%	50	—	2.52	10	3.6	165	PCD1460CT-ND	.51	4.14	27.60	PCD1460TR-ND	80.50	ELJ-FB390JF
47µH	5%	50	—	2.52	9.7	4.2	130	PCD1461CT-ND	.51	4.14	27.60	PCD1461TR-ND	80.50	ELJ-FB470JF
56µH	5%	40	—	2.52	9.0	4.7	125	PCD1462CT-ND	.51	4.14	27.60	PCD1462TR-ND	80.50	ELJ-FB560JF
68µH	5%	40	—	2.52	8.2	5.3	115	PCD1463CT-ND	.51	4.14	27.60	PCD1463TR-ND	80.50	ELJ-FB680JF
82µH	5%	40	—	2.52	7.5	5.9	110	PCD1464CT-ND	.51	4.14	27.60	PCD1464TR-ND	80.50	ELJ-FB820JF
100µH	5%	40	—	2.52	6.7	8.8	105	PCD1465CT-ND	.51	4.14	27.60	PCD1465TR-ND	80.50	ELJ-FB101JF
120µH	5%	40	—	1.5	6.1	10	100	PCD1466CT-ND	.51	4.14	27.60	PCD1466TR-ND	80.50	ELJ-FB121JF
150µH	5%	40	—	1.5	5.5	11	95	PCD1467CT-ND	.51	4.14	27.60	PCD1467TR-ND	80.50	ELJ-FB151JF
180µH	5%	40	—	1.5	5.1	13	85	PCD1468CT-ND	.51	4.14	27.60	PCD1468TR-ND	80.50	ELJ-FB181JF
220µH	5%	40	—	0.796	4.5	13	85	PCD1469CT-ND	.51	4.14	27.60	PCD1469TR-ND	80.50	ELJ-FB221JF
270µH	5%	40	—	0.796	4.1	14	80	PCD1470CT-ND	.51	4.14	27.60	PCD1470TR-ND	80.50	ELJ-FB271JF
330µH	5%	40	—	0.796	3.7	16	75	PCD1471CT-ND	.51	4.14	27.60	PCD1471TR-ND	80.50	ELJ-FB331JF
390µH	5%	40	—	0.796	3.3	19	70	PCD1472CT-ND	.51	4.14	27.60	PCD1472TR-ND	80.50	ELJ-FB391JF
470µH	5%	30	—	0.796	3.3	31	55	PCD1473CT-ND	.51	4.14	27.60	PCD1473TR-ND	80.50	ELJ-FB471JF
560µH	5%	30	—	0.796	2.7	35	50	PCD1474CT-ND	.51	4.14	27.60	PCD1474TR-ND	80.50	ELJ-FB561JF
680µH	5%	30	—	0.796	2.5	39	50	PCD1475CT-ND	.51	4.14	27.60	PCD1475TR-ND	80.50	ELJ-FB681JF
820µH	5%	30	—	0.796	2.4	45	45	PCD1476CT-ND	.51	4.14	27.60	PCD1476TR-ND	80.50	ELJ-FB821JF
1000µH	5%	30	—	0.796	2.1	53	40	PCD1477CT-ND	.51	4.14	27.60	PCD1477TR-ND	80.50	ELJ-FB102JF
Fig. 8, 1812 (4532) — Type PB (10% Tolerance)														
10µH	10%	10	—	2.52	19	0.65	360	PCD1522CT-ND	.63	5.13	34.20	PCD1522TR-ND	100.00	ELJ-PB100KF
12µH	10%	10	—	2.52	17	0.70	340	PCD1523CT-ND	.63	5.13	34.20	PCD1523TR-ND	100.00	ELJ-PB120KF
15µH	10%	10	—	2.52	15	0.80	320	PCD1524CT-ND	.63	5.13	34.20	PCD1524TR-ND	100.00	ELJ-PB150KF
18µH	10%	10	—	2.52	14	0.90	310	PCD1525CT-ND	.63	5.13	34.20	PCD1525TR-ND	100.00	ELJ-PB180KF
22µH	10%	10	—	2.52	13	1.00	300	PCD1526CT-ND	.63	5.13	34.20	PCD1526TR-ND	100.00	ELJ-PB220KF
27µH	10%	10	—	2.52	11	1.20	270	PCD1527CT-ND	.63	5.13	34.20	PCD1527TR-ND	100.00	ELJ-PB270KF
33µH	10%	10	—	2.52	10	1.40	250	PCD1528CT-ND	.63	5.13	34.20	PCD1528TR-ND	100.00	ELJ-PB330KF
39µH	10%	10	—	2.52	9.5	1.60	230	PCD1529CT-ND	.63	5.13	34.20	PCD1529TR-ND	100.00	ELJ-PB390KF
47µH	10%	10	—	2.52	8.5	1.90	210	PCD1530CT-ND	.63	5.13	34.20	PCD1530TR-ND	100.00	ELJ-PB470KF
56µH	10%	10	—	2.52	8	2.20	190	PCD1531CT-ND	.63	5.13	34.20	PCD1531TR-ND	100.00	ELJ-PB560KF
68µH	10%	10	—	2.52	7	2.60	170	PCD1532CT-ND	.63	5.13	34.20	PCD1532TR-ND	100.00	ELJ-PB680KF
82µH	10%	10	—	2.52	6.5	3.50	160	PCD1533CT-ND	.63	5.13	34.20	PCD1533TR-ND	100.00	ELJ-PB820KF
100µH	10%	20	—	0.796	6	4.00	150	PCD1534CT-ND	.63	5.13	34.20	PCD1534TR-ND	100.00	ELJ-PB101KF
120µH	10%	20	—	0.796	5.5	4.50	130	PCD1535CT-ND	.63	5.13	34.20	PCD1535TR-ND	100.00	ELJ-PB121KF
150µH	10%	20	—	0.796	5	6.50	120	PCD1536CT-ND	.63	5.13	34.20	PCD1536TR-ND	100.00	ELJ-PB151KF
180µH	10%	20	—	0.796	4.5	7.50	110	PCD1537CT-ND	.63	5.13	34.20	PCD1537TR-ND	100.00	ELJ-PB181KF
220µH	10%	20	—	0.796	4	9.00	90	PCD1538CT-ND	.63	5.13	34.20	PCD1538TR-ND	100.00	ELJ-PB221KF

Thin Film Inductors

Features:

- Excellent inductance tolerances
- Thin package profiles
- Self resonant frequencies of more than 1Ghz
- High Q values
- High rated currents
- Susumu's HPL Series thin film inductors contribute to lead-free composition of electronic products

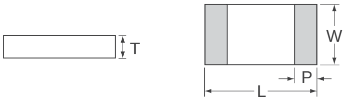

Series	Dimension (mm) L	W	P	T
HPL0603	0.60 ± 0.05	0.30 ± 0.05	0.07 ± 0.05	0.28 ± 0.05
HPL1005	1.00 ± 0.10	0.50 ± 0.10	0.15 ± 0.10	0.40 ± 0.10
TFL0816	1.60 ± 0.10	0.80 ± 0.10	0.30 ± 0.20	0.45 ± 0.10

Inductance (nH)	Tolerance	Q Min.	Test Frequency (MHz)	S.R.F. Min. (GHz)	DCR Max. (Ω)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Susumu Part No.
HPL0603 Series 0201 Package - RoHS Compliant														
1.0	± 0.2nH	15	300	10	0.24	510	408-1015-1-ND	.89	7.35	28.88	408-1015-2-ND	10,000	31.50/M	HPL0603-1N0
1.2	± 0.2nH	15	300	10	0.30	460	408-1016-1-ND	.89	7.35	28.88	408-1016-2-ND	10,000	31.50/M	HPL0603-1N2
1.5	± 0.2nH	15	300	10	0.26	490	408-1017-1-ND	.89	7.35	28.88	408-1017-2-ND	10,000	31.50/M	HPL0603-1N5
1.8	± 0.2nH	15	300	10	0.36	420	408-1018-1-ND	.89	7.35	28.88	408-1018-2-ND	10,000	31.50/M	HPL0603-1N8
2.2	± 0.2nH	15	300	10	0.50	350	408-1019-1-ND	.89	7.35	28.88	408-1019-2-ND	10,000	31.50/M	HPL0603-2N2
2.7	± 0.2nH	13	300	10	0.54	340	408-1020-1-ND	.89	7.35	28.88	408-1020-2-ND	10,000	31.50/M	HPL0603-2N7
3.3	± 0.2nH	13	300	7	0.66	310	408-1021-1-ND	.89	7.35	28.88	408-1021-2-ND	10,000	31.50/M	HPL0603-3N3
3.9	± 0.2nH	13	300	7	0.80	280	408-1022-1-ND	.89	7.35	28.88	408-1022-2-ND	10,000	31.50/M	HPL0603-3N9
4.7	± 0.2nH	13	300	7	1.00	250	408-1023-1-ND	.89	7.35	28.88	408-1023-2-ND	10,000	31.50/M	HPL0603-4N7
5.6	± 0.2nH	10	300	6	1.60	200	408-1024-1-ND	.89	7.35	28.88	408-1024-2-ND	10,000	31.50/M	HPL0603-5N6
HPL1005 Series 0402 Package - RoHS Compliant														
1.0	± 0.2nH	15	300	7	0.03	1800	408-1000-1-ND	.89	7.35	28.88	408-1000-2-ND	10,000	31.50/M	HPL1005-1N0
1.2	± 0.2nH	15	300	7	0.08	1400	408-1001-1-ND	.89	7.35	28.88	408-1001-2-ND	10,000	31.50/M	HPL1005-1N2
1.5	± 0.2nH	15	300	7	0.10	1200	408-1002-1-ND	.89	7.35	28.88	408-1002-2-ND	10,000	31.50/M	HPL1005-1N5
1.8	± 0.2nH	15	300	7	0.14	1000	408-1003-1-ND	.89	7.35	28.88	408-1003-2-ND	10,000	31.50/M	HPL1005-1N8
2.2	± 0.2nH	15	300	7	0.15	900	408-1004-1-ND	.89	7.35	28.88	408-1004-2-ND	10,000	31.50/M	HPL1005-2N2
2.7	± 0.2nH	13	300	7	0.23	750	408-1005-1-ND	.89	7.35	28.88	408-1005-2-ND	10,000	31.50/M	HPL1005-2N7
3.3	± 0.2nH	13	300	7	0.25	700	408-1006-1-ND	.89	7.35	28.88	408-1006-2-ND	10,000	31.50/M	HPL1005-3N3
3.9	± 0.2nH	13	300	7	0.30	620	408-1007-1-ND	.89	7.35	28.88	408-1007-2-ND	10,000	31.50/M	HPL1005-3N9
4.7	± 0.2nH	13	300	6	0.50	500	408-1008-1-ND	.89	7.35	28.88	408-1008-2-ND	10,000	31.50/M	HPL1005-4N7
5.6	± 0.2nH	10	300	5.5	0.70	450	408-1009-1-ND	.89	7.35	28.88	408-1009-2-ND	10,000	31.50/M	HPL1005-5N6
6.8	± 0.2nH	10	300	4.5	0.80	430	408-1010-1-ND	.89	7.35	28.88	408-1010-2-ND	10,000	31.50/M	HPL1005-6N8
8.2	± 0.2nH	10	300	4	1.10	340	408-1011-1-ND	.89	7.35	28.88	408-1011-2-ND	10,000	31.50/M	HPL1005-8N2
10	± 2%	10	300	3.5	1.40	300	408-1012-1-ND	.89	7.35	28.88	408-1012-2-ND	10,000	31.50/M	HPL1005-10N
12	± 2%	10	300	3.5	1.65	270	408-1013-1-ND	.89	7.35	28.88	408-1013-2-ND	10,000	31.50/M	HPL1005-12N
15	± 2%	10	300	3.5	2.25	240	408-1014-1-ND	.89	7.35	28.88	408-1014-2-ND	10,000	31.50/M	HPL1005-15N
TFL0816 Series 0603 Package														
1.0	± 0.2nH	20	300	6	0.10	1000	408-1025-1-ND	1.70	14.00	55.00	408-1025-2-ND	5,000	60.00/M	TFL0816-1N0
1.2	± 0.2nH	20	300	6	0.10	1000	408-1026-1-ND	1.70	14.00	55.00	408-1026-2-ND	5,000	60.00/M	TFL0816-1N2
1.5	± 0.2nH	20	300	6	0.10	1000	408-1027-1-ND	1.70	14.00	55.00	408-1027-2-ND	5,000	60.00/M	TFL0816-1N5
1.8	± 0.2nH	20	300	6	0.15	800	408-1028-1-ND	1.70	14.00	55.00	408-1028-2-ND	5,000	60.00/M	TFL0816-1N8
2.2	± 0.2nH	20	300	6	0.15	800	408-1029-1-ND	1.70	14.00	55.00	408-1029-2-ND	5,000	60.00/M	TFL0816-2N2
2.7	± 0.2nH	20	300	6	0.15	800	408-1030-1-ND	1.70	14.00	55.00	408-1030-2-ND	5,000	60.00/M	TFL0816-2N7
3.3	± 0.2nH	20	300	6	0.20	700	408-1031-1-ND	1.70	14.00	55.00	408-1031-2-ND	5,000	60.00/M	TFL0816-3N3
3.9	± 0.2nH	20	300	6	0.20	700	408-1032-1-ND	1.70	14.00	55.00	408-1032-2-ND	5,000	60.00/M	TFL0816-3N9
4.7	± 0.2nH	20	300	5	0.25	600	408-1033-1-ND	1.70	14.00	55.00	408-1033-2-ND	5,000	60.00/M	TFL0816-4N7
5.6	± 0.2nH	15	300	5	0.50	400	408-1034-1-ND	1.70	14.00	55.00	408-1034-2-ND	5,000	60.00/M	TFL0816-5N6
6.8	± 0.2nH	15	300	5	0.50	400	408-1035-1-ND	1.70	14.00	55.00	408-1035-2-ND	5,000	60.00/M	TFL0816-6N8
8.2	± 0.2nH	15	300	4	0.50	400	408-1036-1-ND	1.70	14.00	55.00	408-1036-2-ND	5,000	60.00/M	TFL0816-8N2
10	± 2%	15	300	4	1.00	300	408-1037-1-ND	1.70	14.00	55.00	408-1037-2-ND	5,000	60.00/M	TFL0816-10N
12	± 2%	15	300	3	1.00	300	408-1038-1-ND	1.70	14.00	55.00	408-1038-2-ND	5,000	60.00/M	TFL0816-12N
15	± 2%	15	300	3	1.00	300	408-1039-1-ND	1.70	14.00	55.00	408-1039-2-ND	5,000	60.00/M	TFL0816-15N
18	± 2%	15	300	2	1.50	250	408-1040-1-ND	1.70	14.00	55.00	408-1040-2-ND	5,000	60.00/M	TFL0816-18N
22	± 2%	15	300	2	1.50	250	408-1041-1-ND	1.70	14.00	55.00	408-1041-2-ND	5,000	60.00/M	TFL0816-22N
27	± 2%	15	300	2	2.00	200	408-1042-1-ND	1.70	14.00	55.00	408-1042-2-ND	5,000	60.00/M	TFL0816-27N
33	± 2%	15	200	1.5	2.00	200	408-1043-1-ND	1.70	14.00	55.00	408-1043-2-ND	5,000	60.00/M	TFL0816-33N
39	± 2%	15	200	1.5	3.00	180	408-1044-1-ND	1.70	14.00	55.00	408-1044-2-ND	5,000	60.00/M	TFL0816-39N
47	± 2%	15	200	1.5	3.00	180	408-1045-1-ND	1.70	14.00	55.00	408-1045-2-ND	5,000	60.00/M	TFL0816-47N
56	± 2%	15	200	1	4.00	150	408-1046-1-ND	1.70	14.00	55.00	408-1046-2-ND	5,000	60.00/M	TFL0816-56N
68	± 2%	15	200	1	4.50	140	408-1047-1-ND	1.70	14.00	55.00	408-1047-2-ND	5,000	60.00/M	TFL0816-68N
82	± 2%	10	200	1	6.00	120	408-1048-1-ND	1.70	14.00	55.00	408-1048-2-ND	5,000	60.00/M	TFL0816-82N
100	± 2%	10	200	1	8.50	100	408-1049-1-ND	1.70	14.00	55.00	408-1049-2-ND	5,000	60.00/M	TFL0816-R10

Voltage Step-Up Coil ELT-3KN, ELT-5KN and ELT-5KT Types

High inductance Voltage Step-up coil chip series for piezo-electric buzzer and DC-DC circuit of EL **Features:** • Small and thin • High inductance **Recommended Applications:** • Watches, Toys, Camera, Electronic thermometers, Pagers, PHS, Portable telephones **Operating Temperature:** -20°C ~ 85°C (-20°C ~ 105°C for the 5KT Type).

Fig. 1

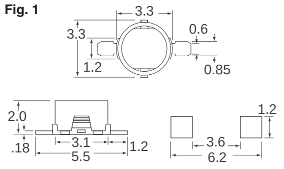

Fig. 2

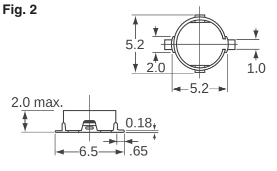

Fig. 3

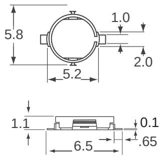

Fig.	Inductance @ 100kHz (µH)	Rated Tolerance (%)	Current mA	RDC Ohm	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
						3KN Type						
1	560	—	45	15	PCD1397CT-ND	2.10	1.74	1.37	PCD1397TR-ND	1,000	743.00	ELT-3KN128B
	1.0	—	30	35	PCD1398CT-ND	2.10	1.74	1.37	PCD1398TR-ND	1,000	743.00	ELT-3KN104B
	1.0	—	40	23	PCD1399CT-ND	2.10	1.74	1.37	PCD1399TR-ND	1,000	743.00	ELT-3KN121B
	1.0	—	30	25	PCD1400CT-ND	2.10	1.74	1.37	PCD1400TR-ND	1,000	743.00	ELT-3KN123B
	2.0	—	20	44	PCD1401CT-ND	2.10	1.74	1.37	PCD1401TR-ND	1,000	743.00	ELT-3KN131B
	2.5	—	20	64	PCD1402CT-ND	2.10	1.74	1.37	PCD1402TR-ND	1,000	743.00	ELT-3KN118B
	4.0	—	15	85	PCD1403CT-ND	2.10	1.74	1.37	PCD1403TR-ND	1,000	743.00	ELT-3KN124B
						5KN Type						
2	220.0	±10	100	2.4	PCD1550CT-ND	2.23	1.84	1.45	PCD1550TR-ND	4,000	788.00/M	ELT-5KN127C
	560.0	±10	60	6.0	PCD1551CT-ND	2.23	1.84	1.45	PCD1551TR-ND	4,000	788.00/M	ELT-5KN118C
	390	±10	120	2.8	PCD1552CT-ND	2.23	1.84	1.45	PCD1552TR-ND	4,000	788.00/M	ELT-5KN131C
	1000	±10	55	11.5	PCD1553CT-ND	2.23	1.84	1.45	PCD1553TR-ND	4,000	788.00/M	ELT-5KN134C
	1500	±10	40	20.0	PCD1554CT-ND	2.23	1.84	1.45	PCD1554TR-ND	4,000	788.00/M	ELT-5KN135C
	2700	±10	35	33.0	PCD1555CT-ND	2.23	1.84	1.45	PCD1555TR-ND	4,000	788.00/M	ELT-5KN120C
						5KT Type						
3	3.3	±20	1000	0.17	PCD1556CT-ND	2.44	2.02	1.59	PCD1556TR-ND	5,000	863.00/M	ELT-5KT3R3MA
	4.7	±20	950	0.20	PCD1557CT-ND	2.44	2.02	1.59	PCD1557TR-ND	5,000	863.00/M	ELT-5KT4R7MA
	6.8	±20	760	0.30	PCD1558CT-ND	2.44	2.02	1.59	PCD1558TR-ND	5,000	863.00/M	ELT-5KT6R8MA
	10.0	±20	680	0.36	PCD1559CT-ND	2.44	2.02	1.59	PCD1559TR-ND	5,000	863.00/M	ELT-5KT100MA
	15.0	±15	510	0.58	PCD1560CT-ND	2.44	2.02	1.59	PCD1560TR-ND	5,000	863.00/M	ELT-5KT150LA
	22.0	±15	420	0.90	PCD1561CT-ND	2.44	2.02	1.59	PCD1561TR-ND	5,000	863.00/M	ELT-5KT220LA
	33.0	±15	360	1.20	PCD1562CT-ND	2.44	2.02	1.59	PCD1562TR-ND	5,000	863.00/M	ELT-5KT330LA
	47.0	±15	300	1.70	PCD1563CT-ND	2.44	2.02	1.59	PCD1563TR-ND	5,000	863.00/M	ELT-5KT470LA
	68.0	±15	260	2.60	PCD1564CT-ND	2.44	2.02	1.59	PCD1564TR-ND	5,000	863.00/M	ELT-5KT680LA
	100.0	±15	190	4.30	PCD1565CT-ND	2.44	2.02	1.59	PCD1565TR-ND	5,000	863.00/M	ELT-5KT101LA
						5KT Type - RoHS Compliant						
3	3.3	±20	1000	0.17	PCD2024CT-ND	1.28	1.05	.83	PCD2024TR-ND	5,000	450.00/M	ELT-5KT3R3MB
	4.7	±20	950	0.20	PCD2025CT-ND	1.28	1.05	.83	PCD2025TR-ND	5,000	450.00/M	ELT-5KT4R7MB
	6.8	±20	760	0.30	PCD2026CT-ND	1.28	1.05	.83	PCD2026TR-ND	5,000	450.00/M	ELT-5KT6R8MB
	10.0	±20	680	0.36	PCD2027CT-ND	1.28	1.05	.83	PCD2027TR-ND	5,000	450.00/M	ELT-5KT100MC
	15.0	±15	510	0.58	PCD2028CT-ND	1.28	1.05	.83	PCD2028TR-ND	5,000	450.00/M	ELT-5KT150LB
	22.0	±15	420	0.90	PCD2029CT-ND	1.28	1.05	.83	PCD2029TR-ND	5,000	450.00/M	ELT-5KT220LB
	33.0	±15	360	1.20	PCD2030CT-ND	1.28	1.05	.83	PCD2030TR-ND	5,000	450.00/M	ELT-5KT330LB
	47.0	±15	300	1.70	PCD2031CT-ND	1.28	1.05	.83	PCD2031TR-ND	5,000	450.00/M	ELT-5KT470LB
	68.0	±15	260	2.60	PCD2032CT-ND	1.28	1.05	.83	PCD2032TR-ND	5,000	450.00/M	ELT-5KT680LB
	100.0	±15	190	4.30	PCD2033CT-ND	1.28	1.05	.83	PCD2033TR-ND	5,000	450.00/M	ELT-5KT101LB

SMD Choke Coils

ELC-3N Type

Features: • Low DC resistance and large current capability • Shock resistant
Recommended Applications: • DC/DC converter circuitry for computer peripherals and cellular hand sets • Chopper circuit decoupling chokes in DC/DC converter circuitry
Rated Current: This indicates the value of current when the inductance is 70% of nominal value and case temperature has risen Δt=45°C (at 20°C)
Operating Temperature: -40 ~ 105°C (Including self-temperature rise)

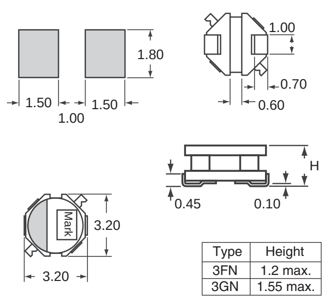

Type	Height
3FN	1.2 max.
3GN	1.55 max.

Inductance at 100kHz (µH)	Tolerance (%)	RDC at 20°C Tol. ±20%	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
					ELC-3FN					
0.2	±30	.029	2500	PCD2177CT-ND ***NEW!***	.70	.58	.46	PCD2177TR-ND ***NEW!***	248.00/M	ELC-3FNR20N
1.0	±30	.080	1400	PCD2034CT-ND	.70	.58	.46	PCD2034TR-ND	248.00/M	ELC-3FN1R0N
1.8	±30	.110	1100	PCD2035CT-ND	.70	.58	.46	PCD2035TR-ND	248.00/M	ELC-3FN1R8N
2.2	±30	.120	1000	PCD2036CT-ND	.70	.58	.46	PCD2036TR-ND	248.00/M	ELC-3FN2R2N
2.7	±30	.150	950	PCD2037CT-ND	.70	.58	.46	PCD2037TR-ND	248.00/M	ELC-3FN2R7N
4.7	±30	.280	750	PCD2038CT-ND	.70	.58	.46	PCD2038TR-ND	248.00/M	ELC-3FN4R7N
5.6	±30	.310	680	PCD2039CT-ND	.70	.58	.46	PCD2039TR-ND	248.00/M	ELC-3FN5R6N
6.8	±30	.360	620	PCD2040CT-ND	.70	.58	.46	PCD2040TR-ND	248.00/M	ELC-3FN6R8N
7.5	±30	.390	600	PCD2041CT-ND	.70	.58	.46	PCD2041TR-ND	248.00/M	ELC-3FN7R5N
10.0	±20	.430	530	PCD2042CT-ND	.70	.58	.46	PCD2042TR-ND	248.00/M	ELC-3FN100M
15.0	±20	1.000	370	PCD2043CT-ND	.70	.58	.46	PCD2043TR-ND	248.00/M	ELC-3FN150M
22.0	±20	1.180	330	PCD2044CT-ND	.70	.58	.46	PCD2044TR-ND	248.00/M	ELC-3FN220M
33.0	±20	1.900	260	PCD2045CT-ND	.70	.58	.46	PCD2045TR-ND	248.00/M	ELC-3FN330M
47.0	±20	2.450	230	PCD2046CT-ND	.70	.58	.46	PCD2046TR-ND	248.00/M	ELC-3FN470M
68.0	±20	4.200	170	PCD2047CT-ND	.70	.58	.46	PCD2047TR-ND	248.00/M	ELC-3FN680M
					ELC-3GN					
1.0	±30	.64	1300	PCD2048CT-ND	.74	.61	.48	PCD2048TR-ND	260.00/M	ELC-3GN1R0N
1.6	±30	.83	1200	PCD2049CT-ND	.74	.61	.48	PCD2049TR-ND	260.00/M	ELC-3GN1R6N
2.2	±30	.100	1000	PCD2050CT-ND	.74	.61	.48	PCD2050TR-ND	260.00/M	ELC-3GN2R2N
3.3	±30	.130	970	PCD2051CT-ND	.74	.61	.48	PCD2051TR-ND	260.00/M	ELC-3GN3R3N
4.7	±30	.200	760	PCD2052CT-ND	.74	.61	.48	PCD2052TR-ND	260.00/M	ELC-3GN4R7N
6.8	±30	.250	680	PCD2053CT-ND	.74	.61	.48	PCD2053TR-ND	260.00/M	ELC-3GN6R8N
8.2	±30	.410	540	PCD2054CT-ND	.74	.61	.48	PCD2054TR-ND	260.00/M	ELC-3GN8R2N
10.0	±20	.430	530	PCD2055CT-ND	.74	.61	.48	PCD2055TR-ND	260.00/M	ELC-3GN100M
15.0	±20	.600	430	PCD2056CT-ND	.74	.61	.48	PCD2056TR-ND	260.00/M	ELC-3GN150M
22.0	±20	.950	330	PCD2057CT-ND	.74	.61	.48	PCD2057TR-ND	260.00/M	ELC-3GN220M
33.0	±20	1.400	280	PCD2058CT-ND	.74	.61	.48	PCD2058TR-ND	260.00/M	ELC-3GN330M
47.0	±20	1.950	240	PCD2059CT-ND	.74	.61	.48	PCD2059TR-ND	260.00/M	ELC-3GN470M
68.0	±20	3.000	190	PCD2060CT-ND	.74	.61	.48	PCD2060TR-ND	260.00/M	ELC-3GN680M

ELL-8UV Type

Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δt=45°C lower at D.C. superposition (at 20°C) **Operating Temperature**: -40 ~ 105°C (Including self-temperature rise)

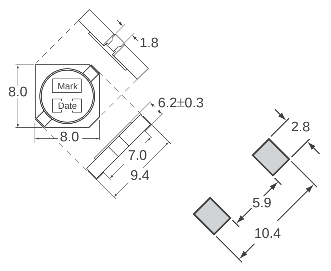

Inductance at 100kHz (µH)	Tolerance (%)	Rated Current* mA	RDC at 20°C Tol. ±20	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
1.3	±30	5.40	7.80	PCD2132CT-ND	1.34	1.11	.87	PCD2132TR-ND	236.50	ELL-8UV1R3N
2.0	±30	5.10	8.70	PCD2133CT-ND	1.34	1.11	.87	PCD2133TR-ND	236.50	ELL-8UV2R0N
2.7	±30	4.75	10.00	PCD2134CT-ND	1.34	1.11	.87	PCD2134TR-ND	236.50	ELL-8UV2R7N
4.7	±30	4.20	12.00	PCD2135CT-ND	1.34	1.11	.87	PCD2135TR-ND	236.50	ELL-8UV4R7N
6.2	±30	3.80	16.00	PCD2183CT-ND ***NEW!***	1.34	1.11	.87	PCD2183TR-ND ***NEW!***	236.50	ELL-8UV6R2N
10.0	±20	3.00	22.00	PCD2136CT-ND	1.34	1.11	.87	PCD2136TR-ND	236.50	ELL-8UV100M
15.0	±20	2.50	26.00	PCD2137CT-ND	1.34	1.11	.87	PCD2137TR-ND	236.50	ELL-8UV150M
22.0	±20	2.05	40.00	PCD2138CT-ND	1.34	1.11	.87	PCD2138TR-ND	236.50	ELL-8UV220M
27.0	±20	1.80	53.00	PCD2139CT-ND	1.34	1.11	.87	PCD2139TR-ND	236.50	ELL-8UV270M
33.0	±20	1.65	78.00	PCD2184CT-ND ***NEW!***	1.34	1.11	.87	PCD2184TR-ND ***NEW!***	236.50	ELL-8UV330M
39.0	±20	1.50	90.00	PCD2140CT-ND	1.34	1.11	.87	PCD2140TR-ND	236.50	ELL-8UV390M
47.0	±20	1.25	100.00	PCD2141CT-ND	1.34	1.11	.87	PCD2141TR-ND	236.50	ELL-8UV470M
68.0	±20	1.10	130.00	PCD2142CT-ND	1.34	1.11	.87	PCD2142TR-ND	236.50	ELL-8UV680M
100.0	±20	0.82	160.00	PCD2143CT-ND	1.34	1.11	.87	PCD2143TR-ND	236.50	ELL-8UV101M
220.0	±20	0.66	370.00	PCD2185CT-ND ***NEW!***	1.34	1.11	.87	PCD2185TR-ND ***NEW!***	236.50	ELL-8UV221M

(Continued)

Panasonic SMD Choke Coils *(Cont.)*

ELL6RH, ELL6SH and ELL6UH Types

Magnetic Shielded Series

Features:
- Thin type (ELL6RH – 2.5mm height, ELL6SH – 3.0mm height, ELL6UH – 4.7mm height)
- Higher reliability in mounting by separated user terminal and internal connection
- High current

Recommended Applications:
- Video, audio, mobile communications, electric battery driving equipment
- Choke coils for chopper circuit, and decoupling choke in DC/DC convertor circuit

Cautions for Use:
- DC/DC convertor — Chopper type: 1W maximum
- Operating Temperature: 105°C maximum (including self-temperature rise)

Rated Current:
ELL6RH and **ELL6SH**: This indicates the value of current when the inductance is 80% more than nominal value and temperature rising Δt=45°C lower at D.C. superposition (at 20°C)
ELL6UH: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δt=45°C lower at D.C. superposition. (20°C)

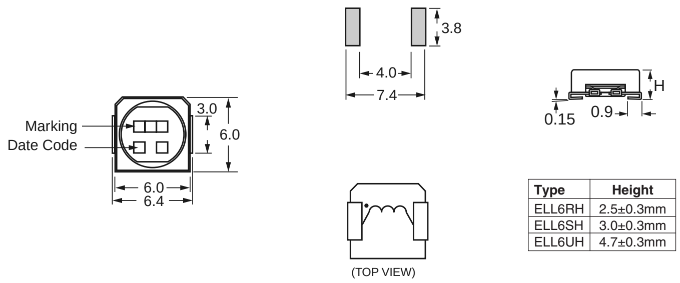

Type	Height
ELL6RH	2.5±0.3mm
ELL6SH	3.0±0.3mm
ELL6UH	4.7±0.3mm

Inductance at 100kHz Tolerance ±20%	RDC at 20°C Tolerance ±20%	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
				1	10	100			
ELL6RH Series									
1.0µH	0.019Ω	3000	PCD1337CT-ND	1.22	1.01	.80	PCD1337TR-ND	432.00	ELL-6RH1R0M
1.5µH	0.024Ω	2400	PCD1338CT-ND	1.22	1.01	.80	PCD1338TR-ND	432.00	ELL-6RH1R5M
2.7µH	0.039Ω	1800	PCD1339CT-ND	1.22	1.01	.80	PCD1339TR-ND	432.00	ELL-6RH2R7M
3.3µH	0.044Ω	1600	PCD1340CT-ND	1.22	1.01	.80	PCD1340TR-ND	432.00	ELL-6RH3R3M
5.1µH	0.056Ω	1550	PCD1341CT-ND	1.22	1.01	.80	PCD1341TR-ND	432.00	ELL-6RH5R1M
6.2µH	0.062Ω	1400	PCD1342CT-ND	1.22	1.01	.80	PCD1342TR-ND	432.00	ELL-6RH6R2M
7.5µH	0.080Ω	1250	PCD1343CT-ND	1.22	1.01	.80	PCD1343TR-ND	432.00	ELL-6RH7R5M
8.2µH	0.087Ω	1200	PCD1344CT-ND	1.22	1.01	.80	PCD1344TR-ND	432.00	ELL-6RH8R2M
10µH	0.095Ω	1100	PCD1345CT-ND	1.22	1.01	.80	PCD1345TR-ND	432.00	ELL-6RH100M
12µH	0.13Ω	1000	PCD1346CT-ND	1.22	1.01	.80	PCD1346TR-ND	432.00	ELL-6RH120M
15µH	0.15Ω	850	PCD1347CT-ND	1.22	1.01	.80	PCD1347TR-ND	432.00	ELL-6RH150M
18µH	0.17Ω	800	PCD1348CT-ND	1.22	1.01	.80	PCD1348TR-ND	432.00	ELL-6RH180M
22µH	0.22Ω	700	PCD1349CT-ND	1.22	1.01	.80	PCD1349TR-ND	432.00	ELL-6RH220M
27µH	0.26Ω	650	PCD1350CT-ND	1.22	1.01	.80	PCD1350TR-ND	432.00	ELL-6RH270M
33µH	0.38Ω	600	PCD1351CT-ND	1.22	1.01	.80	PCD1351TR-ND	432.00	ELL-6RH330M
39µH	0.41Ω	550	PCD1352CT-ND	1.22	1.01	.80	PCD1352TR-ND	432.00	ELL-6RH390M
47µH	0.48Ω	500	PCD1353CT-ND	1.22	1.01	.80	PCD1353TR-ND	432.00	ELL-6RH470M
56µH	0.54Ω	450	PCD1354CT-ND	1.22	1.01	.80	PCD1354TR-ND	432.00	ELL-6RH560M
68µH	0.77Ω	400	PCD1355CT-ND	1.22	1.01	.80	PCD1355TR-ND	432.00	ELL-6RH680M
82µH	0.87Ω	350	PCD1356CT-ND	1.22	1.01	.80	PCD1356TR-ND	432.00	ELL-6RH820M
100µH	1.00Ω	300	PCD1357CT-ND	1.22	1.01	.80	PCD1357TR-ND	432.00	ELL-6RH101M
120µH	1.50Ω	280	PCD1358CT-ND	1.22	1.01	.80	PCD1358TR-ND	432.00	ELL-6RH121M
150µH	1.80Ω	250	PCD1359CT-ND	1.22	1.01	.80	PCD1359TR-ND	432.00	ELL-6RH151M
180µH	2.00Ω	230	PCD1360CT-ND	1.22	1.01	.80	PCD1360TR-ND	432.00	ELL-6RH181M
220µH	2.30Ω	200	PCD1361CT-ND	1.22	1.01	.80	PCD1361TR-ND	432.00	ELL-6RH221M
ELL6SH Series									
1.0µH	0.019Ω	3400	PCD1362CT-ND	1.22	1.01	.80	PCD1362TR-ND	432.00	ELL-6SH1R0M
1.5µH	0.024Ω	3200	PCD1363CT-ND	1.22	1.01	.80	PCD1363TR-ND	432.00	ELL-6SH1R5M
2.7µH	0.031Ω	2400	PCD1364CT-ND	1.22	1.01	.80	PCD1364TR-ND	432.00	ELL-6SH2R7M
3.3µH	0.034Ω	2200	PCD1365CT-ND	1.22	1.01	.80	PCD1365TR-ND	432.00	ELL-6SH3R3M
4.7µH	0.042Ω	2000	PCD1366CT-ND	1.22	1.01	.80	PCD1366TR-ND	432.00	ELL-6SH4R7M
5.6µH	0.049Ω	1800	PCD1367CT-ND	1.22	1.01	.80	PCD1367TR-ND	432.00	ELL-6SH5R6M
6.8µH	0.052Ω	1500	PCD1368CT-ND	1.22	1.01	.80	PCD1368TR-ND	432.00	ELL-6SH6R8M
8.2µH	0.061Ω	1400	PCD1369CT-ND	1.22	1.01	.80	PCD1369TR-ND	432.00	ELL-6SH8R2M
10µH	0.065Ω	1300	PCD1370CT-ND	1.22	1.01	.80	PCD1370TR-ND	432.00	ELL-6SH100M
12µH	0.071Ω	1200	PCD1371CT-ND	1.22	1.01	.80	PCD1371TR-ND	432.00	ELL-6SH120M
15µH	0.096Ω	1100	PCD1372CT-ND	1.22	1.01	.80	PCD1372TR-ND	432.00	ELL-6SH150M
18µH	0.13Ω	1000	PCD1373CT-ND	1.22	1.01	.80	PCD1373TR-ND	432.00	ELL-6SH180M
22µH	0.14Ω	900	PCD1374CT-ND	1.22	1.01	.80	PCD1374TR-ND	432.00	ELL-6SH220M
27µH	0.16Ω	800	PCD1375CT-ND	1.22	1.01	.80	PCD1375TR-ND	432.00	ELL-6SH270M
33µH	0.18Ω	700	PCD1376CT-ND	1.22	1.01	.80	PCD1376TR-ND	432.00	ELL-6SH330M
39µH	0.24Ω	650	PCD1377CT-ND	1.22	1.01	.80	PCD1377TR-ND	432.00	ELL-6SH390M
47µH	0.27Ω	600	PCD1378CT-ND	1.22	1.01	.80	PCD1378TR-ND	432.00	ELL-6SH470M
56µH	0.29Ω	550	PCD1379CT-ND	1.22	1.01	.80	PCD1379TR-ND	432.00	ELL-6SH560M
68µH	0.52Ω	500	PCD1380CT-ND	1.22	1.01	.80	PCD1380TR-ND	432.00	ELL-6SH680M
82µH	0.60Ω	450	PCD1381CT-ND	1.22	1.01	.80	PCD1381TR-ND	432.00	ELL-6SH820M
100µH	0.68Ω	400	PCD1382CT-ND	1.22	1.01	.80	PCD1382TR-ND	432.00	ELL-6SH101M
120µH	0.75Ω	370	PCD1383CT-ND	1.22	1.01	.80	PCD1383TR-ND	432.00	ELL-6SH121M
150µH	0.86Ω	350	PCD1384CT-ND	1.22	1.01	.80	PCD1384TR-ND	432.00	ELL-6SH151M
180µH	1.30Ω	300	PCD1385CT-ND	1.22	1.01	.80	PCD1385TR-ND	432.00	ELL-6SH181M
220µH	1.40Ω	280	PCD1386CT-ND	1.22	1.01	.80	PCD1386TR-ND	432.00	ELL-6SH221M
270µH	2.40Ω	260	PCD1387CT-ND	1.22	1.01	.80	PCD1387TR-ND	432.00	ELL-6SH271M
330µH	2.70Ω	240	PCD1388CT-ND	1.22	1.01	.80	PCD1388TR-ND	432.00	ELL-6SH331M
390µH	2.80Ω	210	PCD1389CT-ND	1.22	1.01	.80	PCD1389TR-ND	432.00	ELL-6SH391M
470µH	3.20Ω	200	PCD1390CT-ND	1.22	1.01	.80	PCD1390TR-ND	432.00	ELL-6SH471M
560µH	3.70Ω	180	PCD1391CT-ND	1.22	1.01	.80	PCD1391TR-ND	432.00	ELL-6SH561M
680µH	4.30Ω	160	PCD2182CT-ND ***NEW!***	1.12	.93	.73	PCD2182TR-ND ***NEW!***	397.00	ELL-6SH681M
ELL6UH Series									
10µH	0.063Ω	1800	PCD2107CT-ND	.80	.66	.52	PCD2107TR-ND	282.00	ELL-6UH100M
12µH	0.071Ω	1700	PCD2108CT-ND	.80	.66	.52	PCD2108TR-ND	282.00	ELL-6UH120M
15µH	0.079Ω	1600	PCD2109CT-ND	.80	.66	.52	PCD2109TR-ND	282.00	ELL-6UH150M
18µH	0.088Ω	1400	PCD2110CT-ND	.80	.66	.52	PCD2110TR-ND	282.00	ELL-6UH180M
22µH	0.098Ω	1300	PCD2111CT-ND	.80	.66	.52	PCD2111TR-ND	282.00	ELL-6UH220M
27µH	0.110Ω	1200	PCD2112CT-ND	.80	.66	.52	PCD2112TR-ND	282.00	ELL-6UH270M
33µH	0.130Ω	1100	PCD2113CT-ND	.80	.66	.52	PCD2113TR-ND	282.00	ELL-6UH330M
39µH	0.150Ω	1000	PCD2114CT-ND	.80	.66	.52	PCD2114TR-ND	282.00	ELL-6UH390M
47µH	0.160Ω	900	PCD2115CT-ND	.80	.66	.52	PCD2115TR-ND	282.00	ELL-6UH470M
56µH	0.210Ω	800	PCD2116CT-ND	.80	.66	.52	PCD2116TR-ND	282.00	ELL-6UH560M
68µH	0.230Ω	700	PCD2117CT-ND	.80	.66	.52	PCD2117TR-ND	282.00	ELL-6UH680M
82µH	0.260Ω	650	PCD2118CT-ND	.80	.66	.52	PCD2118TR-ND	282.00	ELL-6UH820M
100µH	0.360Ω	600	PCD2119CT-ND	.80	.66	.52	PCD2119TR-ND	282.00	ELL-6UH101M
120µH	0.480Ω	580	PCD2120CT-ND	.80	.66	.52	PCD2120TR-ND	282.00	ELL-6UH121M
150µH	0.680Ω	500	PCD2121CT-ND	.80	.66	.52	PCD2121TR-ND	282.00	ELL-6UH151M
180µH	0.750Ω	470	PCD2122CT-ND	.80	.66	.52	PCD2122TR-ND	282.00	ELL-6UH181M
220µH	0.840Ω	410	PCD2123CT-ND	.80	.66	.52	PCD2123TR-ND	282.00	ELL-6UH221M
270µH	1.200Ω	370	PCD2124CT-ND	.80	.66	.52	PCD2124TR-ND	282.00	ELL-6UH271M
330µH	1.360Ω	330	PCD2125CT-ND	.80	.66	.52	PCD2125TR-ND	282.00	ELL-6UH331M
390µH	1.500Ω	300	PCD2126CT-ND	.80	.66	.52	PCD2126TR-ND	282.00	ELL-6UH391M
470µH	1.680Ω	270	PCD2127CT-ND	.80	.66	.52	PCD2127TR-ND	282.00	ELL-6UH471M
560µH	2.530Ω	260	PCD2128CT-ND	.80	.66	.52	PCD2128TR-ND	282.00	ELL-6UH561M
680µH	2.830Ω	240	PCD2129CT-ND	.80	.66	.52	PCD2129TR-ND	282.00	ELL-6UH681M
820µH	3.140Ω	200	PCD2130CT-ND	.80	.66	.52	PCD2130TR-ND	282.00	ELL-6UH821M
1000µH	3.670Ω	180	PCD2131CT-ND	.80	.66	.52	PCD2131TR-ND	282.00	ELL-6UH102M

ELL6GM Type

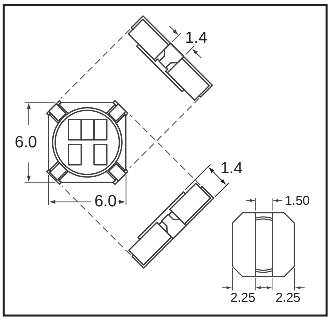

Features:
- Magnetic shielded structure
- Low DC resistance and high current
- Structure for withstanding fall shock
- Available on tape and reel for automatic insertion

Recommended Applications:
- DC/DC converter
- Chopper circuit, decoupling choke

Note: *Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance		DCR (@20°C)		*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
Nominal (µH)	TOL.	Nominal (Ohm)	TOL.			1	10	100			
1.2	±30%	0.023	±20%	2300	PCD1673CT-ND	1.57	1.30	1.02	PCD1673TR-ND	555.00	ELL-6GM1R2N
1.8	±30%	0.028	±20%	1900	PCD1674CT-ND	1.57	1.30	1.02	PCD1674TR-ND	555.00	ELL-6GM1R8N
2.2	±30%	0.035	±20%	1800	PCD1675CT-ND	1.57	1.30	1.02	PCD1675TR-ND	555.00	ELL-6GM2R2N
2.7	±30%	0.041	±20%	1700	PCD1676CT-ND	1.57	1.30	1.02	PCD1676TR-ND	555.00	ELL-6GM2R7N
3.6	±30%	0.057	±20%	1500	PCD1677CT-ND	1.57	1.30	1.02	PCD1677TR-ND	555.00	ELL-6GM3R6N
4.7	±30%	0.078	±20%	1250	PCD1678CT-ND	1.57	1.30	1.02	PCD1678TR-ND	555.00	ELL-6GM4R7N
5.6	±30%	0.086	±20%	1200	PCD1679CT-ND	1.57	1.30	1.02	PCD1679TR-ND	555.00	ELL-6GM5R6N
6.8	±30%	0.096	±20%	1100	PCD1680CT-ND	1.57	1.30	1.02	PCD1680TR-ND	555.00	ELL-6GM6R8N
7.5	±30%	0.11	±20%	1050	PCD1681CT-ND	1.57	1.30	1.02	PCD1681TR-ND	555.00	ELL-6GM7R5N
10	±20%	0.15	±20%	930	PCD1682CT-ND	1.57	1.30	1.02	PCD1682TR-ND	555.00	ELL-6GM100M
12	±20%	0.17	±20%	830	PCD1683CT-ND	1.57	1.30	1.02	PCD1683TR-ND	555.00	ELL-6GM120M
15	±20%	0.19	±20%	740	PCD1684CT-ND	1.57	1.30	1.02	PCD1684TR-ND	555.00	ELL-6GM150M
18	±20%	0.26	±20%	710	PCD1685CT-ND	1.57	1.30	1.02	PCD1685TR-ND	555.00	ELL-6GM180M
22	±20%	0.32	±20%	620	PCD1686CT-ND	1.57	1.30	1.02	PCD1686TR-ND	555.00	ELL-6GM220M
27	±20%	0.35	±20%	560	PCD1687CT-ND	1.57	1.30	1.02	PCD1687TR-ND	555.00	ELL-6GM270M
33	±20%	0.49	±20%	500	PCD1688CT-ND	1.57	1.30	1.02	PCD1688TR-ND	555.00	ELL-6GM330M
39	±20%	0.55	±20%	460	PCD1689CT-ND	1.57	1.30	1.02	PCD1689TR-ND	555.00	ELL-6GM390M
47	±20%	0.62	±20%	420	PCD1690CT-ND	1.57	1.30	1.02	PCD1690TR-ND	555.00	ELL-6GM470M
56	±20%	0.70	±20%	380	PCD1691CT-ND	1.57	1.30	1.02	PCD1691TR-ND	555.00	ELL-6GM560M
68	±20%	0.82	±20%	350	PCD1692CT-ND	1.57	1.30	1.02	PCD1692TR-ND	555.00	ELL-6GM680M

ELL6PM Type

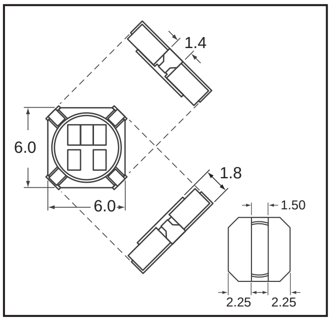

Features:
- Magnetic shielded structure
- Low DC resistance and high current
- Structure for withstanding fall shock
- Available on tape and reel for automatic insertion

Recommended Applications:
- DC/DC converter
- Chopper circuit, decoupling choke

Note: *Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance		DCR (@20°C)		*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
Nominal (µH)	TOL.	Nominal (Ohm)	TOL.			1	10	100			
1.0	±30%	0.016	±20%	2700	PCD1693CT-ND	1.66	1.37	1.08	PCD1693TR-ND	585.00	ELL-6PM1R0N
1.5	±30%	0.020	±20%	2450	PCD1694CT-ND	1.66	1.37	1.08	PCD1694TR-ND	585.00	ELL-6PM1R5N
2.0	±30%	0.024	±20%	2200	PCD1695CT-ND	1.66	1.37	1.08	PCD1695TR-ND	585.00	ELL-6PM2R0N
2.7	±30%	0.029	±20%	2000	PCD1696CT-ND	1.66	1.37	1.08	PCD1696TR-ND	585.00	ELL-6PM2R7N
3.3	±30%	0.035	±20%	1850	PCD1697CT-ND	1.66	1.37	1.08	PCD1697TR-ND	585.00	ELL-6PM3R3N
3.9	±30%	0.040	±20%	1800	PCD1698CT-ND	1.66	1.37	1.08	PCD1698TR-ND	585.00	ELL-6PM3R9N
4.7	±30%	0.047	±20%	1680	PCD1699CT-ND	1.66	1.37	1.08	PCD1699TR-ND	585.00	ELL-6PM4R7N
5.6	±30%	0.052	±20%	1500	PCD1700CT-ND	1.66	1.37	1.08	PCD1700TR-ND	585.00	ELL-6PM5R6N
6.8	±30%	0.057	±20%	1350	PCD1701CT-ND	1.66	1.37	1.08	PCD1701TR-ND	585.00	ELL-6PM6R8N
7.5	±30%	0.070	±20%	1300	PCD1702CT-ND	1.66	1.37	1.08	PCD1702TR-ND	585.00	ELL-6PM7R5N
9.1	±30%	0.077	±20%	1200	PCD1703CT-ND	1.66	1.37	1.08	PCD1703TR-ND	585.00	ELL-6PM9R1N
10	±20%	0.085	±20%	1000	PCD1704CT-ND	1.66	1.37	1.08	PCD1704TR-ND	585.00	ELL-6PM100M
12	±20%	0.11	±20%	950	PCD1705CT-ND	1.66	1.37	1.08	PCD1705TR-ND	585.00	ELL-6PM120M
15	±20%	0.13	±20%	950	PCD1706CT-ND	1.66	1.37	1.08	PCD1706TR-ND	585.00	ELL-6PM150M
18	±20%	0.14	±20%	820	PCD1707CT-ND	1.66	1.37	1.08	PCD1707TR-ND	585.00	ELL-6PM180M
22	±20%	0.20	±20%	700	PCD1708CT-ND	1.66	1.37	1.08	PCD1708TR-ND	585.00	ELL-6PM220M
27	±20%	0.22	±20%	620	PCD1709CT-ND	1.66	1.37	1.08	PCD1709TR-ND	585.00	ELL-6PM270M
33	±20%	0.29	±20%	550	PCD1710CT-ND	1.66	1.37	1.08	PCD1710TR-ND	585.00	ELL-6PM330M
39	±20%	0.31	±20%	520	PCD1711CT-ND	1.66	1.37	1.08	PCD1711TR-ND	585.00	ELL-6PM390M
47	±20%	0.36	±20%	440	PCD1712CT-ND	1.66	1.37	1.08	PCD1712TR-ND	585.00	ELL-6PM470M
56	±20%	0.50	±20%	420	PCD1713CT-ND	1.66	1.37	1.08	PCD1713TR-ND	585.00	ELL-6PM560M
68	±20%	0.60	±20%	400	PCD1714CT-ND	1.66	1.37	1.08	PCD1714TR-ND	585.00	ELL-6PM680M
82	±20%	0.68	±20%	360	PCD1715CT-ND	1.66	1.37	1.08	PCD1715TR-ND	585.00	ELL-6PM820M
100	±20%	0.97	±20%	320	PCD1716CT-ND	1.66	1.37	1.08	PCD1716TR-ND	585.00	ELL-6PM101M

ELL6PV Type

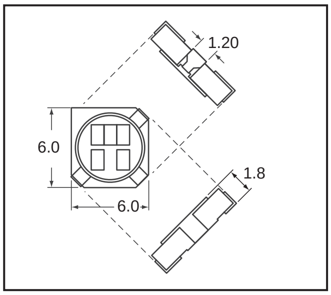

Features:
- Thin type (height, 1.8mm)
- Capable of corresponding high current
- Low DC resistance

Recommended Application:
- Videos, audio, mobile communications, electric battery driving equipment
- Choke coils for chopper circuit decoupling choke in DC/DC convertor circuit

Cautions for Use:
- DC/DC power converter
- Chopper type: 1W maximum
- Operating temperature: 105°C maximum (Including self-temperature rise)

Note: *Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Inductance		DCR (@20°C)		*Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
Nominal (µH)	TOL.	Nominal (Ohm)	TOL.			1	10	100			
1.0	±30%	0.016	±20%	3000	PCD1717CT-ND	1.38	1.14	.90	PCD1717TR-ND	488.00	ELL-6PV1R0N
1.5	±30%	0.019	±20%	2600	PCD1718CT-ND	1.38	1.14	.90	PCD1718TR-ND	488.00	ELL-6PV1R5N
1.8	±30%	0.024	±20%	2500	PCD1719CT-ND	1.38	1.14	.90	PCD1719TR-ND	488.00	ELL-6PV1R8N
2.4	±30%	0.027	±20%	2150	PCD1720CT-ND	1.38	1.14	.90	PCD1720TR-ND	488.00	ELL-6PV2R4N
3.3	±30%	0.032	±20%	1900	PCD1721CT-ND	1.38	1.14	.90	PCD1721TR-ND	488.00	ELL-6PV3R3N
3.9	±30%	0.038	±20%	1800	PCD1722CT-ND	1.38	1.14	.90	PCD1722TR-ND	488.00	ELL-6PV3R9N
4.7	±30%	0.044	±20%	1700	PCD1723CT-ND	1.38	1.14	.90	PCD1723TR-ND	488.00	ELL-6PV4R7N
5.6	±30%	0.049	±20%	1450	PCD1724CT-ND	1.38	1.14	.90	PCD1724TR-ND	488.00	ELL-6PV5R6N
6.8	±30%	0.055	±20%	1250	PCD1725CT-ND	1.38	1.14	.90	PCD1725TR-ND	488.00	ELL-6PV6R8N
8.2	±30%	0.070	±20%	1150	PCD1726CT-ND	1.38	1.14	.90	PCD1726TR-ND	488.00	ELL-6PV8R2N
9.1	±30%	0.076	±20%	1100	PCD1727CT-ND	1.38	1.14	.90	PCD1727TR-ND	488.00	ELL-6PV9R1N
10	±20%	0.085	±20%	1000	PCD1728CT-ND	1.38	1.14	.90	PCD1728TR-ND	488.00	ELL-6PV100M
12	±20%	0.090	±20%	980	PCD1729CT-ND	1.38	1.14	.90	PCD1729TR-ND	488.00	ELL-6PV120M
15	±20%	0.12	±20%	880	PCD1730CT-ND	1.38	1.14	.90	PCD1730TR-ND	488.00	ELL-6PV150M
18	±20%	0.14	±20%	840	PCD1731CT-ND	1.38	1.14	.90	PCD1731TR-ND	488.00	ELL-6PV180M
22	±20%	0.20	±20%	700	PCD1732CT-ND	1.38	1.14	.90	PCD1732TR-ND	488.00	ELL-6PV220M
27	±20%	0.22	±20%	670	PCD1733CT-ND	1.38	1.14	.90	PCD1733TR-ND	488.00	ELL-6PV270M
33	±20%	0.28	±20%	600	PCD1734CT-ND	1.38	1.14	.90	PCD1734TR-ND	488.00	ELL-6PV330M
39	±20%	0.33	±20%	550	PCD1735CT-ND	1.38	1.14	.90	PCD1735TR-ND	488.00	ELL-6PV390M
47	±20%	0.37	±20%	500	PCD1736CT-ND	1.38	1.14	.90	PCD1736TR-ND	488.00	ELL-6PV470M
56	±20%	0.41	±20%	450	PCD1737CT-ND	1.38	1.14	.90	PCD1737TR-ND	488.00	ELL-6PV560M
68	±20%	0.57	±20%	420	PCD1738CT-ND	1.38	1.14	.90	PCD1738TR-ND	488.00	ELL-6PV680M
82	±20%	0.65	±20%	380	PCD1739CT-ND	1.38	1.14	.90	PCD1739TR-ND	488.00	ELL-6PV820M
100	±20%	0.75	±20%	340	PCD1740CT-ND	1.38	1.14	.90	PCD1740TR-ND	488.00	ELL-6PV101M

ELL3GM Type

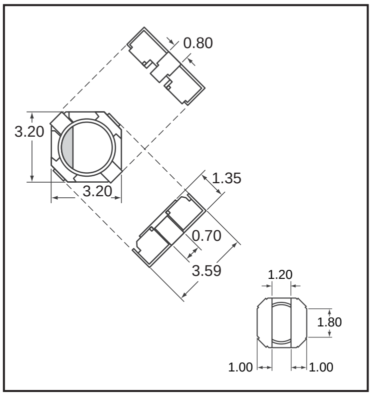

Features: • Magnetic shielded structure • Low DC resistance, high current • Shock resistant • Available on tape and reel for automatic insertion • Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Recommended Applications: • DC/DC Converter Circuit for computer peripheral, Hand phone • Choke coils for chopper circuit decoupling choke in DC/DC Converter Circuit

Inductance (100kHz)		RDC (@20°C)		Rated		Cut Tape				Tape & Reel	
Nominal (µH)	TOL.	Nominal (Ω)	TOL.	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Pricing 2,000	Panasonic Part No.
1.0	±30%	0.038	±20%	1800	PCD1641CT-ND	1.26	1.04	.82	PCD1641TR-ND	443.00/M	ELL-3GM1R0N
1.3	±30%	0.058	±20%	1500	PCD1642CT-ND	1.26	1.04	.82	PCD1642TR-ND	443.00/M	ELL-3GM1R3N
2.2	±30%	0.10	±20%	1100	PCD1643CT-ND	1.26	1.04	.82	PCD1643TR-ND	443.00/M	ELL-3GM2R2N
2.7	±30%	0.11	±20%	1000	PCD1644CT-ND	1.26	1.04	.82	PCD1644TR-ND	443.00/M	ELL-3GM2R7N
3.3	±30%	0.13	±20%	980	PCD1645CT-ND	1.26	1.04	.82	PCD1645TR-ND	443.00/M	ELL-3GM3R3N
3.9	±30%	0.14	±20%	940	PCD1646CT-ND	1.26	1.04	.82	PCD1646TR-ND	443.00/M	ELL-3GM3R9N
4.3	±30%	0.22	±20%	720	PCD1647CT-ND	1.26	1.04	.82	PCD1647TR-ND	443.00/M	ELL-3GM4R3N
5.1	±30%	0.24	±20%	690	PCD1648CT-ND	1.26	1.04	.82	PCD1648TR-ND	443.00/M	ELL-3GM5R1N
5.6	±30%	0.26	±20%	670	PCD1649CT-ND	1.26	1.04	.82	PCD1649TR-ND	443.00/M	ELL-3GM5R6N
6.8	±30%	0.28	±20%	650	PCD1650CT-ND	1.26	1.04	.82	PCD1650TR-ND	443.00/M	ELL-3GM6R8N
8.2	±30%	0.31	±20%	620	PCD1651CT-ND	1.26	1.04	.82	PCD1651TR-ND	443.00/M	ELL-3GM8R2N
10	±20%	0.35	±20%	550	PCD1652CT-ND	1.26	1.04	.82	PCD1652TR-ND	443.00/M	ELL-3GM100M
12	±20%	0.40	±20%	530	PCD1653CT-ND	1.26	1.04	.82	PCD1653TR-ND	443.00/M	ELL-3GM120M
15	±20%	0.56	±20%	440	PCD1654CT-ND	1.26	1.04	.82	PCD1654TR-ND	443.00/M	ELL-3GM150M
18	±20%	0.64	±20%	420	PCD1655CT-ND	1.26	1.04	.82	PCD1655TR-ND	443.00/M	ELL-3GM180M
22	±20%	0.77	±20%	360	PCD1656CT-ND	1.26	1.04	.82	PCD1656TR-ND	443.00/M	ELL-3GM220M
27	±20%	1.05	±20%	330	PCD1657CT-ND	1.26	1.04	.82	PCD1657TR-ND	443.00/M	ELL-3GM270M
33	±20%	1.20	±20%	310	PCD1658CT-ND	1.26	1.04	.82	PCD1658TR-ND	443.00/M	ELL-3GM330M
47	±20%	2.00	±20%	220	PCD2178CT-ND ***NEW!***	1.26	1.04	.82	PCD2178TR-ND ***NEW!***	443.00/M	ELL-3GM470M

ELL4LM and ELL4GM Types

Features:

Series ELL4LM: • Magnetic shielded structure • Low DC resistance, high current • Structure for withstanding fall shock • Available on tape and reel for automatic insertion **Recommended Applications:** • DC/DC Converter Circuit for Computer peripheral, hand phone • Choke coils for chopper circuit decoupling choke in DC/DC Converter Circuit ***Rated Current:** This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition (at 20°C)

Series ELL4GM: • Low Profile • High Power • High Inductance • Shock Resistant **Recommended Applications**: • Digital Base Band • CPA and PA **Rated Current:** The Maximum allowable current is a D.C. current which causes a 30% inductance reduction from its nominal value or coil temperature to rise 45°C, whichever is smaller (Reference ambient temperature 20°C)

Operating Temperature: -40 ~ 105°C (Including self-temperature rise)

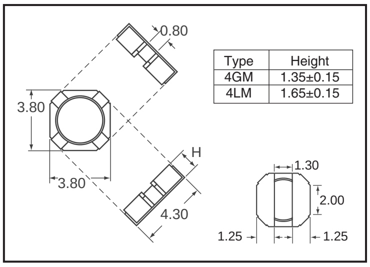

Type	Height
4GM	1.35±0.15
4LM	1.65±0.15

Inductance(100kHz)		RDC (@20°C)		Rated		Cut Tape				Tape & Reel		
Nominal (µH)	TOL.	Nominal (Ω)	TOL.	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Size	Pricing	Panasonic Part No.
						ELL4LM Series						
1.0	±30%	0.026	±20%	2000	PCD1659CT-ND	1.40	1.16	.91	PCD1659TR-ND	3,000	495.00/M	ELL-4LM1R0N
1.5	±30%	0.031	±20%	1600	PCD1660CT-ND	1.40	1.16	.91	PCD1660TR-ND	3,000	495.00/M	ELL-4LM1R5N
2.0	±30%	0.043	±20%	1350	PCD1661CT-ND	1.40	1.16	.91	PCD1661TR-ND	3,000	495.00/M	ELL-4LM2R0N
2.7	±30%	0.056	±20%	1250	PCD1662CT-ND	1.40	1.16	.91	PCD1662TR-ND	3,000	495.00/M	ELL-4LM2R7N
3.3	±30%	0.062	±20%	1100	PCD1663CT-ND	1.40	1.16	.91	PCD1663TR-ND	3,000	495.00/M	ELL-4LM3R3N
4.7	±30%	0.090	±20%	900	PCD1664CT-ND	1.40	1.16	.91	PCD1664TR-ND	3,000	495.00/M	ELL-4LM4R7N
6.2	±30%	0.14	±20%	800	PCD1665CT-ND	1.40	1.16	.91	PCD1665TR-ND	3,000	495.00/M	ELL-4LM6R2N
7.5	±30%	0.15	±20%	720	PCD1666CT-ND	1.40	1.16	.91	PCD1666TR-ND	3,000	495.00/M	ELL-4LM7R5N
10	±30%	0.18	±20%	690	PCD1667CT-ND	1.40	1.16	.91	PCD1667TR-ND	3,000	495.00/M	ELL-4LM100M
12	±30%	0.20	±20%	530	PCD1668CT-ND	1.40	1.16	.91	PCD1668TR-ND	3,000	495.00/M	ELL-4LM120M
15	±30%	0.30	±20%	500	PCD1669CT-ND	1.40	1.16	.91	PCD1669TR-ND	3,000	495.00/M	ELL-4LM150M
18	±30%	0.32	±20%	460	PCD1670CT-ND	1.40	1.16	.91	PCD1670TR-ND	3,000	495.00/M	ELL-4LM180M
22	±30%	0.38	±20%	430	PCD1671CT-ND	1.40	1.16	.91	PCD1671TR-ND	3,000	495.00/M	ELL-4LM220M
27	±30%	0.42	±20%	370	PCD1672CT-ND	1.40	1.16	.91	PCD1672TR-ND	3,000	495.00/M	ELL-4LM270M
						ELL4GM Series						
2.4	±30%	0.066	±20%	1150	PCD2061CT-ND	.96	.79	.62	PCD2061TR-ND	2,000	338.00/M	ELL-4GM2R4N
3.6	±30%	0.10	±20%	950	PCD2062CT-ND	.96	.79	.62	PCD2062TR-ND	2,000	338.00/M	ELL-4GM3R6N
4.7	±30%	0.12	±20%	800	PCD2063CT-ND	.96	.79	.62	PCD2063TR-ND	2,000	338.00/M	ELL-4GM4R7N
5.6	±30%	0.13	±20%	750	PCD2064CT-ND	.96	.79	.62	PCD2064TR-ND	2,000	338.00/M	ELL-4GM5R6N
6.8	±30%	0.18	±20%	640	PCD2065CT-ND	.96	.79	.62	PCD2065TR-ND	2,000	338.00/M	ELL-4GM6R8N
8.2	±30%	0.22	±20%	580	PCD2066CT-ND	.96	.79	.62	PCD2066TR-ND	2,000	338.00/M	ELL-4GM8R2N
10	±20%	0.26	±20%	540	PCD2067CT-ND	.96	.79	.62	PCD2067TR-ND	2,000	338.00/M	ELL-4GM100M
15	±20%	0.29	±20%	410	PCD2179CT-ND ***NEW!***	.96	.79	.62	PCD2179TR-ND ***NEW!***	2,000	338.00/M	ELL-4GM150M
18	±20%	0.49	±20%	400	PCD2068CT-ND	.96	.79	.62	PCD2068TR-ND	2,000	338.00/M	ELL-4GM180M
22	±20%	0.56	±20%	350	PCD2069CT-ND	.96	.79	.62	PCD2069TR-ND	2,000	338.00/M	ELL-4GM220M
27	±20%	0.64	±20%	330	PCD2070CT-ND	.96	.79	.62	PCD2070TR-ND	2,000	338.00/M	ELL-4GM270M
33	±20%	0.70	±20%	300	PCD2071CT-ND	.96	.79	.62	PCD2071TR-ND	2,000	338.00/M	ELL-4GM330M
47	±20%	1.05	±20%	260	PCD2180CT-ND ***NEW!***	.96	.79	.62	PCD2180TR-ND ***NEW!***	2,000	338.00/M	ELL-4GM470M

ELLATV Type

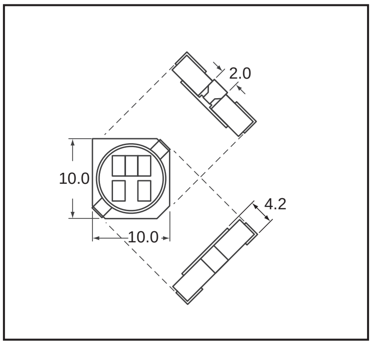

Features:

• Magnetic shielded structure • Low DC resistance and capable of corresponding high current • Available on tape and reel for automatic insertion • Rated Current: This indicates the value of current when the inductance is 70% more than nominal value and temperature rising Δ t=45°C lower at D.C. superposition. (at 20°C)

Recommended Applications:

- DC/DC converter circuit for computer peripheral, LCD
- Choke coils for chopper circuit decoupling choked in DC/DC Converter Circuit

Inductance (100kHz)		RDC (@20°C)		Rated		Cut Tape				Tape & Reel	
Nominal (µH)	TOL.	Nominal (mOhm)	TOL.	Current (mA)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Pricing 500	Panasonic Part No.
1.5	±30%	5.3	±20%	6700	PCD1741CT-ND	2.34	1.93	1.52	PCD1741TR-ND	412.50	ELL-ATV1R5N
2.2	±30%	6.3	±20%	6200	PCD1742CT-ND	2.34	1.93	1.52	PCD1742TR-ND	412.50	ELL-ATV2R2N
3.3	±30%	8.8	±20%	5350	PCD1743CT-ND	2.34	1.93	1.52	PCD1743TR-ND	412.50	ELL-ATV3R3N
4.3	±30%	10	±20%	5000	PCD1744CT-ND	2.34	1.93	1.52	PCD1744TR-ND	412.50	ELL-ATV4R3N
5.1	±30%	14	±20%	4350	PCD1745CT-ND	2.34	1.93	1.52	PCD1745TR-ND	412.50	ELL-ATV5R1N
6.8	±30%	16	±20%	4000	PCD1746CT-ND	2.34	1.93	1.52	PCD1746TR-ND	412.50	ELL-ATV6R8N
8.2	±30%	18	±20%	3700	PCD1747CT-ND	2.34	1.93	1.52	PCD1747TR-ND	412.50	ELL-ATV8R2N
10	±20%	23	±20%	3300	PCD1748CT-ND	2.34	1.93	1.52	PCD1748TR-ND	412.50	ELL-ATV100M
12	±20%	25	±20%	2900	PCD1749CT-ND	2.34	1.93	1.52	PCD1749TR-ND	412.50	ELL-ATV120M
15	±20%	32	±20%	2800	PCD1750CT-ND	2.34	1.93	1.52	PCD1750TR-ND	412.50	ELL-ATV150M
18	±20%	38	±20%	2500	PCD1751CT-ND	2.34	1.93	1.52	PCD1751TR-ND	412.50	ELL-ATV180M
22	±20%	45	±20%	2200	PCD1752CT-ND	2.34	1.93	1.52	PCD1752TR-ND	412.50	ELL-ATV220M
27	±20%	56	±20%	2000	PCD1753CT-ND	2.34	1.93	1.52	PCD1753TR-ND	412.50	ELL-ATV270M
33	±20%	62	±20%	1800	PCD1754CT-ND	2.34	1.93	1.52	PCD1754TR-ND	412.50	ELL-ATV330M
39	±20%	74	±20%	1600	PCD1755CT-ND	2.34	1.93	1.52	PCD1755TR-ND	412.50	ELL-ATV390M
47	±20%	94	±20%	1550	PCD1756CT-ND	2.34	1.93	1.52	PCD1756TR-ND	412.50	ELL-ATV470M
56	±20%	100	±20%	1350	PCD1757CT-ND	2.34	1.93	1.52	PCD1757TR-ND	412.50	ELL-ATV560M
68	±20%	130	±20%	1200	PCD1758CT-ND	2.34	1.93	1.52	PCD1758TR-ND	412.50	ELL-ATV680M
82	±20%	150	±20%	1100	PCD1759CT-ND	2.34	1.93	1.52	PCD1759TR-ND	412.50	ELL-ATV820M
100	±20%	180	±20%	1000	PCD1760CT-ND	2.34	1.93	1.52	PCD1760TR-ND	412.50	ELL-ATV101M
120	±20%	210	±20%	940	PCD1761CT-ND	2.34	1.93	1.52	PCD1761TR-ND	412.50	ELL-ATV121M
150	±20%	300	±20%	850	PCD1762CT-ND	2.34	1.93	1.52	PCD1762TR-ND	412.50	ELL-ATV151M
180	±20%	350	±20%	770	PCD1763CT-ND	2.34	1.93	1.52	PCD1763TR-ND	412.50	ELL-ATV181M
220	±20%	400	±20%	700	PCD1764CT-ND	2.34	1.93	1.52	PCD1764TR-ND	412.50	ELL-ATV221M
270	±20%	500	±20%	630	PCD1765CT-ND	2.34	1.93	1.52	PCD1765TR-ND	412.50	ELL-ATV271M
330	±20%	600	±20%	550	PCD1766CT-ND	2.34	1.93	1.52	PCD1766TR-ND	412.50	ELL-ATV331M
390	±20%	750	±20%	520	PCD1767CT-ND	2.34	1.93	1.52	PCD1767TR-ND	412.50	ELL-ATV391M
470	±20%	850	±20%	480	PCD1768CT-ND	2.34	1.93	1.52	PCD1768TR-ND	412.50	ELL-ATV471M
560	±20%	1100	±20%	440	PCD1769CT-ND	2.34	1.93	1.52	PCD1769TR-ND	412.50	ELL-ATV561M
680	±20%	1250	±20%	400	PCD1770CT-ND	2.34	1.93	1.52	PCD1770TR-ND	412.50	ELL-ATV681M
820	±20%	1700	±20%	360	PCD1771CT-ND	2.34	1.93	1.52	PCD1771TR-ND	412.50	ELL-ATV821M
1000	±20%	2000	±20%	330	PCD1772CT-ND	2.34	1.93	1.52	PCD1772TR-ND	412.50	ELL-ATV102M

(Continued)

ELL5GM and ELL5PM Types

Features:
- Magnetic shielded structure
- Low DC resistance and large current capability
- Shock resistant structure

Recommended Applications:
- DC/DC converter circuitry for computer peripherals and cellular hand sets
- Chopper circuit decoupling chokes in DC/DC converter circuitry

Rated Current: This indicates the value of current when the inductance is 70% of nominal value or when the case temperature has risen 45°C (at 20°C)

Operating Temperature: -40 ~ 105°C (Including self-temperature rise)

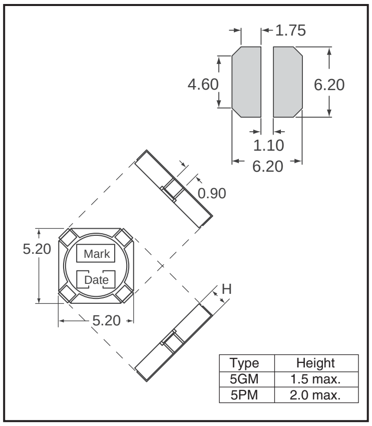

Type	Height
5GM	1.5 max.
5PM	2.0 max.

Inductance (100kHz) Nominal (µH)	TOL.	RDC (@20°C) TOL. ± 20% (mΩ)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
				ELL5GM Series						
1.0	±30%	32	2200	PCD2072CT-ND	.99	.82	.64	PCD2072TR-ND	349.00/M	ELL-5GM1R0N
2.2	±30%	53	1600	PCD2073CT-ND	.99	.82	.64	PCD2073TR-ND	349.00/M	ELL-5GM2R2N
3.6	±30%	70	1300	PCD2074CT-ND	.99	.82	.64	PCD2074TR-ND	349.00/M	ELL-5GM3R6N
4.7	±30%	92	1100	PCD2075CT-ND	.99	.82	.64	PCD2075TR-ND	349.00/M	ELL-5GM4R7N
5.6	±30%	100	1000	PCD2076CT-ND	.99	.82	.64	PCD2076TR-ND	349.00/M	ELL-5GM5R6N
6.8	±30%	120	900	PCD2077CT-ND	.99	.82	.64	PCD2077TR-ND	349.00/M	ELL-5GM6R8N
8.2	±30%	140	850	PCD2078CT-ND	.99	.82	.64	PCD2078TR-ND	349.00/M	ELL-5GM8R2N
10.0	±20%	150	750	PCD2079CT-ND	.99	.82	.64	PCD2079TR-ND	349.00/M	ELL-5GM100M
12.0	±20%	210	700	PCD2080CT-ND	.99	.82	.64	PCD2080TR-ND	349.00/M	ELL-5GM120M
15.0	±20%	250	650	PCD2081CT-ND	.99	.82	.64	PCD2081TR-ND	349.00/M	ELL-5GM150M
18.0	±20%	270	600	PCD2082CT-ND	.99	.82	.64	PCD2082TR-ND	349.00/M	ELL-5GM180M
22.0	±20%	380	500	PCD2083CT-ND	.99	.82	.64	PCD2083TR-ND	349.00/M	ELL-5GM220M
27.0	±20%	430	450	PCD2084CT-ND	.99	.82	.64	PCD2084TR-ND	349.00/M	ELL-5GM270M
33.0	±20%	490	400	PCD2085CT-ND	.99	.82	.64	PCD2085TR-ND	349.00/M	ELL-5GM330M
47.0	±20%	930	390	PCD2181CT-ND ***NEW!***	.99	.82	.64	PCD2181TR-ND ***NEW!***	349.00/M	ELL-5GM470M
				ELL5PM Series						
1.2	±30%	23	2500	PCD2086CT-ND	1.08	.90	.71	PCD2086TR-ND	383.00/M	ELL-5PM1R2N
1.8	±30%	27	2300	PCD2087CT-ND	1.08	.90	.71	PCD2087TR-ND	383.00/M	ELL-5PM1R8N
2.4	±30%	32	2050	PCD2088CT-ND	1.08	.90	.71	PCD2088TR-ND	383.00/M	ELL-5PM2R4N
3.0	±30%	36	1800	PCD2089CT-ND	1.08	.90	.71	PCD2089TR-ND	383.00/M	ELL-5PM3R0N
3.9	±30%	47	1600	PCD2090CT-ND	1.08	.90	.71	PCD2090TR-ND	383.00/M	ELL-5PM3R9N
4.7	±30%	53	1500	PCD2091CT-ND	1.08	.90	.71	PCD2091TR-ND	383.00/M	ELL-5PM4R7N
5.6	±30%	68	1350	PCD2092CT-ND	1.08	.90	.71	PCD2092TR-ND	383.00/M	ELL-5PM5R6N
6.8	±30%	74	1200	PCD2093CT-ND	1.08	.90	.71	PCD2093TR-ND	383.00/M	ELL-5PM6R8N
8.2	±30%	81	1050	PCD2094CT-ND	1.08	.90	.71	PCD2094TR-ND	383.00/M	ELL-5PM8R2N
10.0	±20%	97	1000	PCD2095CT-ND	1.08	.90	.71	PCD2095TR-ND	383.00/M	ELL-5PM100M
12.0	±20%	120	850	PCD2096CT-ND	1.08	.90	.71	PCD2096TR-ND	383.00/M	ELL-5PM120M
15.0	±20%	140	800	PCD2097CT-ND	1.08	.90	.71	PCD2097TR-ND	383.00/M	ELL-5PM150M
18.0	±20%	180	720	PCD2098CT-ND	1.08	.90	.71	PCD2098TR-ND	383.00/M	ELL-5PM180M
22.0	±20%	210	680	PCD2099CT-ND	1.08	.90	.71	PCD2099TR-ND	383.00/M	ELL-5PM220M
27.0	±20%	230	550	PCD2100CT-ND	1.08	.90	.71	PCD2100TR-ND	383.00/M	ELL-5PM270M
33.0	±20%	270	530	PCD2101CT-ND	1.08	.90	.71	PCD2101TR-ND	383.00/M	ELL-5PM330M
39.0	±20%	390	480	PCD2102CT-ND	1.08	.90	.71	PCD2102TR-ND	383.00/M	ELL-5PM390M
47.0	±20%	440	450	PCD2103CT-ND	1.08	.90	.71	PCD2103TR-ND	383.00/M	ELL-5PM470M
56.0	±20%	610	400	PCD2104CT-ND	1.08	.90	.71	PCD2104TR-ND	383.00/M	ELL-5PM560M
68.0	±20%	700	350	PCD2105CT-ND	1.08	.90	.71	PCD2105TR-ND	383.00/M	ELL-5PM680M
82.0	±20%	780	320	PCD2106CT-ND	1.08	.90	.71	PCD2106TR-ND	383.00/M	ELL-5PM820M

ELLCTV Type

Features:
- Magnetic shielded structure
- Low DC resistance and large current capability

Recommended Applications:
- DC/DC converter circuitry for computer peripherals and cellular hand sets
- Chopper circuit decoupling chokes in DC/DC converter circuitry

Rated Current: This indicates the value of current when the inductance is 70% of nominal value or when the case temperature has risen 45°C (at 20°C)

Operating Temperature: -40 ~ 105°C (Including self-temperature rise)

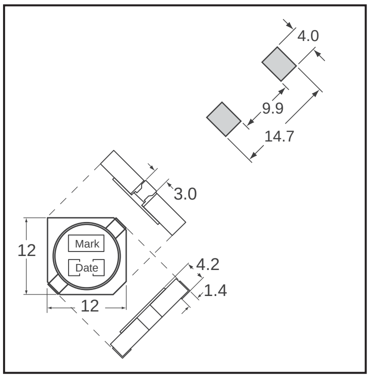

Inductance (100kHz) Nominal (µH)	TOL.	RDC (@20°C) TOL. ± 20% (mΩ)	Rated Current (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
1.2	±30%	4.6	6500	PCD2144CT-ND	1.98	1.63	1.28	PCD2144TR-ND	349.00	ELL-CTV1R2N
2.0	±30%	5.6	6300	PCD2145CT-ND	1.98	1.63	1.28	PCD2145TR-ND	349.00	ELL-CTV2R0N
2.7	±30%	7.0	5700	PCD2146CT-ND	1.98	1.63	1.28	PCD2146TR-ND	349.00	ELL-CTV2R7N
3.9	±30%	8.5	5600	PCD2147CT-ND	1.98	1.63	1.28	PCD2147TR-ND	349.00	ELL-CTV3R9N
4.7	±30%	9.9	5200	PCD2148CT-ND	1.98	1.63	1.28	PCD2148TR-ND	349.00	ELL-CTV4R7N
5.6	±30%	11	4900	PCD2149CT-ND	1.98	1.63	1.28	PCD2149TR-ND	349.00	ELL-CTV5R6N
6.8	±30%	14	4500	PCD2150CT-ND	1.98	1.63	1.28	PCD2150TR-ND	349.00	ELL-CTV6R8N
8.2	±30%	15	4400	PCD2151CT-ND	1.98	1.63	1.28	PCD2151TR-ND	349.00	ELL-CTV8R2N
10.0	±20%	17	3900	PCD2152CT-ND	1.98	1.63	1.28	PCD2152TR-ND	349.00	ELL-CTV100M
12.0	±20%	22	3700	PCD2153CT-ND	1.98	1.63	1.28	PCD2153TR-ND	349.00	ELL-CTV120M
15.0	±20%	25	3100	PCD2154CT-ND	1.98	1.63	1.28	PCD2154TR-ND	349.00	ELL-CTV150M
18.0	±20%	30	3000	PCD2155CT-ND	1.98	1.63	1.28	PCD2155TR-ND	349.00	ELL-CTV180M
22.0	±20%	37	2700	PCD2156CT-ND	1.98	1.63	1.28	PCD2156TR-ND	349.00	ELL-CTV220M
27.0	±20%	43	2300	PCD2157CT-ND	1.98	1.63	1.28	PCD2157TR-ND	349.00	ELL-CTV270M
33.0	±20%	50	2200	PCD2158CT-ND	1.98	1.63	1.28	PCD2158TR-ND	349.00	ELL-CTV330M
39.0	±20%	61	2100	PCD2159CT-ND	1.98	1.63	1.28	PCD2159TR-ND	349.00	ELL-CTV390M
47.0	±20%	69	1900	PCD2160CT-ND	1.98	1.63	1.28	PCD2160TR-ND	349.00	ELL-CTV470M
56.0	±20%	87	1600	PCD2161CT-ND	1.98	1.63	1.28	PCD2161TR-ND	349.00	ELL-CTV560M
68.0	±20%	100	1500	PCD2162CT-ND	1.98	1.63	1.28	PCD2162TR-ND	349.00	ELL-CTV680M
82.0	±20%	120	1400	PCD2163CT-ND	1.98	1.63	1.28	PCD2163TR-ND	349.00	ELL-CTV820M
100.0	±20%	150	1200	PCD2164CT-ND	1.98	1.63	1.28	PCD2164TR-ND	349.00	ELL-CTV101M
120.0	±20%	190	1100	PCD2165CT-ND	1.98	1.63	1.28	PCD2165TR-ND	349.00	ELL-CTV121M
150.0	±20%	220	1000	PCD2166CT-ND	1.98	1.63	1.28	PCD2166TR-ND	349.00	ELL-CTV151M
180.0	±20%	270	930	PCD2167CT-ND	1.98	1.63	1.28	PCD2167TR-ND	349.00	ELL-CTV181M
220.0	±20%	310	840	PCD2168CT-ND	1.98	1.63	1.28	PCD2168TR-ND	349.00	ELL-CTV221M
270.0	±20%	400	810	PCD2169CT-ND	1.98	1.63	1.28	PCD2169TR-ND	349.00	ELL-CTV271M
330.0	±20%	500	660	PCD2170CT-ND	1.98	1.63	1.28	PCD2170TR-ND	349.00	ELL-CTV331M
390.0	±20%	560	630	PCD2171CT-ND	1.98	1.63	1.28	PCD2171TR-ND	349.00	ELL-CTV391M
470.0	±20%	690	580	PCD2172CT-ND	1.98	1.63	1.28	PCD2172TR-ND	349.00	ELL-CTV471M
560.0	±20%	810	540	PCD2173CT-ND	1.98	1.63	1.28	PCD2173TR-ND	349.00	ELL-CTV561M
680.0	±20%	1010	470	PCD2174CT-ND	1.98	1.63	1.28	PCD2174TR-ND	349.00	ELL-CTV681M
820.0	±20%	1140	440	PCD2175CT-ND	1.98	1.63	1.28	PCD2175TR-ND	349.00	ELL-CTV821M
1000.0	±20%	1500	410	PCD2176CT-ND	1.98	1.63	1.28	PCD2176TR-ND	349.00	ELL-CTV102M

SMD Power Choke Coils ETQP4L Type

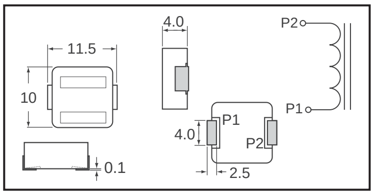

Features:
- Small size, Space saving (11.5 x 10 x 4 mm)
- Capable of corresponding high current (15A to 21A)
- Low loss (DCR :0.7 to 1.6mΩ)
- Capable of corresponding high frequency (to 1MHZ)
- Surface mount and lead-free type

Recommended Applications:
- DC/DC converter for driving CPU at high speed such as server and router
- Electric power supply for CPU peripherals of Note PC and Desktop PC

Inductance (at 20°C) (Tol. = ±20%) L1 (µH)		L2*		DC Resist. (at 20°C)	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel Pricing	Panasonic
(µH)	Meas. Current	(µH)	Meas. Current	RDC (mΩ) Max.	Part No.	1	10	100	Part No.	500	Part No
.56±20%	15A	0.53	21A	1.7	PCD1638CT-ND	3.68	3.15	2.10	PCD1638TR-ND	708.75	ETQ-P4LR56WFC
.36±20%	17A	0.34	24A	1.1	PCD1637CT-ND	3.68	3.15	2.10	PCD1637TR-ND	708.75	ETQ-P4LR36WFC
.19±20%	21A	0.176	30A	0.7	PCD1636CT-ND	3.68	3.15	2.10	PCD1636TR-ND	708.75	ETQ-P4LR19WFC

* Reference Only

Panasonic® SMD Power Choke Coils

ETQP5L Type

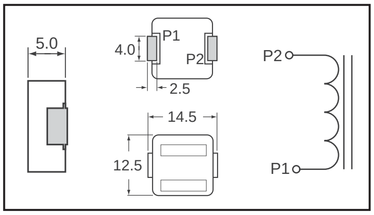

Features:
- Small size, Space saving (11.5 x 10 x 4 mm)
- Capable of corresponding high current (21A to 28A)
- Low loss (DCR :0.7 to 1.6mΩ)
- Capable of corresponding high frequency (to 1MHZ)
- Low buzz noise due to gap-less structure

Recommended Applications:
- DC/DC converter for driving CPU at high speed such as server and router
- Desktop PC power supply modules

Inductance (at 20°C) (Tol. = ±20%)				DC Resist. (at 20°C)							
L1		L2*								Tape & Reel	
(µH)	Meas. Current	(µH)	Meas. Current	DCR (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Pricing 500	Panasonic Part No
0.50±20%	30A	0.46	42A	0.8±7%	PCD2021CT-ND	3.43	2.94	1.96	PCD2021TR-ND	661.50	ETQ-P5LR50XFA
0.60±20%	30A	0.54	42A	1.1±5%	PCD2022CT-ND	3.43	2.94	1.96	PCD2022TR-ND	661.50	ETQ-P5LR60XFA

* Reference Only

PCC-N6 Type — Thin, Compact and High Power

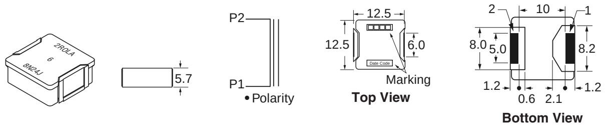

Features:
- High power type
- Thin type (5.7mm height)
- Low leakage flux

Recommended Applications:
- DC/DC converter for driving PC at high speed
- Thin type on-board power supply module for exchanger (10~40W)

Series	Inductance Initial at 25°C (100 KHz) L₀ (µH)	Inductance At Flat Point at 25°C (100 KHz) L₁ (µH)	Saturation Current At 25°C I sat (A) min.	Saturation Current At 100°C I sat (A) min.	Heat Rating Current ΔT=40K(°C) I₀ (A) Ref. Only	DC Resistance At 20°C DCR (mΩ) max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No.
HL	2.3±30%	1.2±30%	14.3	11.7	14.2	2.24	PCD1307CT-ND	5.78	4.95	3.30	PCD1307TR-ND	1113.75	ETQ-P6F1R2HFA
	3.5±30%	2.0±30%	10.7	8.7	12.5	3.30	PCD1308CT-ND	5.78	4.95	3.30	PCD1308TR-ND	1113.75	ETQ-P6F2R0HFA
	4.8±25%	3.2±25%	8.6	7.1	10.8	4.92	PCD1309CT-ND	5.78	4.95	3.30	PCD1309TR-ND	1113.75	ETQ-P6F3R2HFA
	6.6±25%	4.6±25%	7.3	6.0	9.3	6.48	PCD1310CT-ND	5.78	4.95	3.30	PCD1310TR-ND	1113.75	ETQ-P6F4R6HFA
	8.3±25%	6.4±25%	6.2	5.2	7.9	8.64	PCD1311CT-ND	5.78	4.95	3.30	PCD1311TR-ND	1113.75	ETQ-P6F6R4HFA
	10.4±25%	8.2±25%	5.6	4.7	7.2	10.9	PCD1312CT-ND	5.78	4.95	3.30	PCD1312TR-ND	1113.75	ETQ-P6F8R2HFA
	12.5±25%	10.2±25%	4.7	4.0	6.5	13.3	PCD1313CT-ND	5.78	4.95	3.30	PCD1313TR-ND	1113.75	ETQ-P6F102HFA
SP	1.9±30%	1.0±30%	19.4	15.4	14.2	2.24	PCD1314CT-ND	5.78	4.95	3.30	PCD1314TR-ND	1113.75	ETQ-P6F1R0SFA
	2.8±30%	1.6±30%	14.9	12.2	12.5	3.30	PCD1315CT-ND	5.78	4.95	3.30	PCD1315TR-ND	1113.75	ETQ-P6F1R6SFA
	3.6±30%	2.5±30%	11.3	9.3	10.8	4.92	PCD1316CT-ND	5.78	4.95	3.30	PCD1316TR-ND	1113.75	ETQ-P6F2R5SFA
	4.9±30%	3.5±30%	9.5	8.0	9.3	6.48	PCD1392CT-ND	5.78	4.95	3.30	PCD1392TR-ND	1113.75	ETQ-P6F3R5SFA
LB	1.8±30%	0.8±30%	25.2	20.0	14.2	2.24	PCD1317CT-ND	5.78	4.95	3.30	PCD1317TR-ND	1113.75	ETQ-P6F0R8LFA
	2.5±30%	1.3±30%	18.6	15.8	12.5	3.30	PCD1318CT-ND	5.78	4.95	3.30	PCD1318TR-ND	1113.75	ETQ-P6F1R3LFA
	3.1±30%	2.0±30%	15.1	12.1	10.8	4.92	PCD1319CT-ND	5.78	4.95	3.30	PCD1319TR-ND	1113.75	ETQ-P6F2R0LFA
	4.1±30%	2.9±30%	12.0	10.0	9.3	6.48	PCD1320CT-ND	5.78	4.95	3.30	PCD1320TR-ND	1113.75	ETQ-P6F2R9LFA
	5.0±20%	4.1±20%	10.8	8.7	7.9	8.64	PCD1321CT-ND	5.78	4.95	3.30	PCD1321TR-ND	1113.75	ETQ-P6F4R1LFA

N6B Type — High Rated Current, Low Profile and Low Loss

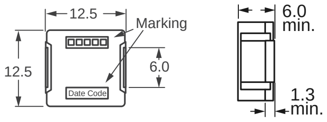

Applications:
- DC/DC converter for cpu in PC or video game machine
- Thin type on-board power supply for switchboards

Inductance (at 20°C) (Tol. = ±20%)				DC Resistance (at 20°C)							
L1		L2								Tape and Reel	
(µH)	Meas. Current	(µH)	Meas. Current	DCR (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Pricing 500	Panasonic Part No
0.58	at 19A	0.54	at 27A	1.44	PCD1393CT-ND	3.35	2.88	1.92	PCD1393TR-ND	646.65	ETQ-P6F0R6BFA
1.06	at 16A	0.99	at 22A	2.24	PCD1394CT-ND	3.35	2.88	1.92	PCD1394TR-ND	646.65	ETQ-P6F1R1BFA
1.71	at 14A	1.50	at 20A	3.30	PCD1395CT-ND	3.35	2.88	1.92	PCD1395TR-ND	646.65	ETQ-P6F1R8BFA
2.45	at 12A	2.17	at 17A	4.92	PCD1396CT-ND	3.35	2.88	1.92	PCD1396TR-ND	646.65	ETQ-P6F2R5BFA
3.32	at 10A	2.96	at 14A	6.48	PCD1639CT-ND	3.35	2.88	1.92	PCD1639TR-ND	646.65	ETQ-P6F3R4BFA

PCC-NX1/NX2 Type — Small and Ultra Thin, High Current and Low Loss

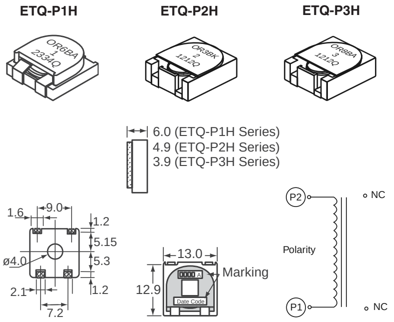

Features:
- High Power: 1 sat(<29A)
- High Inductance: 0.7-2.5 µH
- Low Resistance: .89-5.0mΩ
- Small Mount Area: 13.0-12.9
- Height: ETQ-P3H: 3.9mm; ETQ-P2H: 4.9mm; ETQ-P1H: 6.0mm

Applications:
- PC High speed of CPU: Notebook PC

Series	Inductance (at 20°C) L1 (µH)	L1 Meas. Current	L2* (µH)	L2* Meas. Current	DC Resist. (@ 20°C) DCR (mΩ) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	Panasonic Part No
ETQ-P1H	0.60±25%	26A	0.45	36A	0.90	PCD1634CT-ND	4.34	3.72	2.48	PCD1634TR-ND	837.00	ETQ-P1H0R6BFA
	1.00±20%	19A	0.80	27A	1.56	PCD1635CT-ND	4.34	3.72	2.48	PCD1635TR-ND	837.00	ETQ-P1H1R0BFA
ETQ-P2H	0.33±20%	23A	0.30	32A	0.89	PCD1566CT-ND	3.96	3.40	2.27	PCD1566TR-ND	764.10	ETQ-P2H0R3BFK
	0.69±20%	21A	0.59	29A	1.30	PCD1567CT-ND	3.96	3.40	2.27	PCD1567TR-ND	764.10	ETQ-P2H0R7BFA
	1.22±20%	16A	1.04	22A	2.27	PCD1568CT-ND	3.96	3.40	2.27	PCD1568TR-ND	764.10	ETQ-P2H1R2BFA
	1.83±20%	14A	1.49	20A	3.48	PCD1569CT-ND	3.96	3.40	2.27	PCD1569TR-ND	764.10	ETQ-P2H1R8BFA
	2.61±20%	12A	2.12	17A	4.98	PCD1570CT-ND	3.96	3.40	2.27	PCD1570TR-ND	764.10	ETQ-P2H2R6BFA
ETQ-P3H	0.36±20%	23A	0.32	32A	1.04	PCD1640CT-ND	3.96	3.40	2.27	PCD1640TR-ND	764.10	ETQ-P3H0R4BFA
	0.80±20%	16A	0.71	22A	2.33	PCD1571CT-ND	3.96	3.40	2.27	PCD1571TR-ND	764.10	ETQ-P3H0R8BFA
	1.43±20%	12A	1.25	17A	4.52	PCD1572CT-ND	3.96	3.40	2.27	PCD1572TR-ND	764.10	ETQ-P3H1R4BFA

* Reference only

PCC-S1 Type — High Inductance and High Current

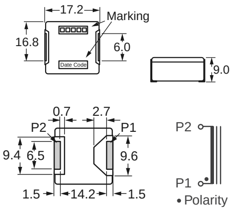

Features: • High inductance • High current **Recommended Applications:** • DC/DC converter • Computer network • Telcom base station

Series	Inductance Initial at 25°C (100 KHz) L₀ (µH)	Inductance At Flat Point at 25°C (100 KHz) L₁ (µH)	Saturation Current At 25°C I sat (A) min.	Saturation Current At 100°C I sat (A) min.	Heat Rating Current ΔT=40K(°C) I₀ (A) Ref. Only	DC Resistance @ 20°C DCR (mΩ) max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 250	Panasonic Part No.
HL	2.9±30%	1.2±30%	21.4	18.0	22.6	1.00	PCD1331CT-ND	10.50	7.00	5.81	PCD1331TR-ND	1181.25	ETQ-PAF1R2HFA
	4.6±30%	2.7±30%	15.5	12.5	17.5	1.56	PCD1332CT-ND	10.50	7.00	5.81	PCD1332TR-ND	1181.25	ETQ-PAF2R7HFA
	6.8±30%	4.8±30%	10.6	9.0	14.4	2.29	PCD1333CT-ND	10.50	7.00	5.81	PCD1333TR-ND	1181.25	ETQ-PAF4R8HFA
	9.7±30%	7.2±30%	8.6	7.3	12.0	3.31	PCD1334CT-ND	10.50	7.00	5.81	PCD1334TR-ND	1181.25	ETQ-PAF7R2HFA
EX	1.9±30%	0.7±30%	50.4	42.3	22.6	1.00	PCD1335CT-ND	10.50	7.00	5.81	PCD1335TR-ND	1181.25	ETQ-PAF0R7EFA
	2.9±30%	1.3±30%	36.7	30.0	17.5	1.56	PCD1336CT-ND	10.50	7.00	5.81	PCD1336TR-ND	1181.25	ETQ-PAF1R3EFA

THIN FILM TECHNOLOGY

SSM SUSUMU CO., LTD

NEW! Delay Lines

Fig. 1

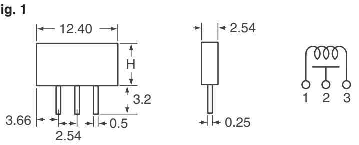

Time Delay	H	Form
0.1 ~ 5.0ns	6.35 max.	D
5.5 ~ 10.0ns	9.20 max.	V

Fig. 2

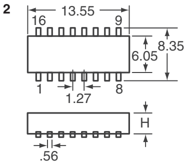

Time Delay	H	Code
0.1 ~ 1.0ns	2.37 max.	L
1.1 ~ 5.0ns	4.85 max.	M

GL1L

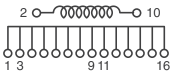

GL2L

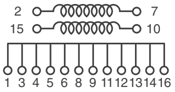

Fig. 3

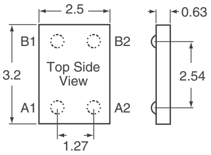

CL1L5

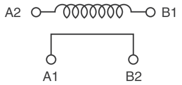

CL2LA

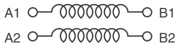

Dimensions in mm

Fig.	Delay (Ns)	Tolerance (pS)	Impedance (Ω)	Insertion Loss MHz (-3dB)	Return Loss MHz (-15dB)	Digi-Key Part No.	Price Each			Susumu Part No.
							1	10	50	
DS1L Series 3 Pin SIP Delay Lines										
1	0.1	±50	50 ±5	2980	2380	408-1108-ND	9.23	6.55	5.69	DS1L5DJ010S-C
	0.5	±50	50 ±5	2580	800	408-1109-ND	9.23	6.55	5.69	DS1L5DJ050S-C
	1.0	±50	50 ±5	1260	185	408-1110-ND	9.23	6.55	5.69	DS1L5DJ100S-C
	1.5	±50	50 ±5	1140	180	408-1111-ND	9.23	6.55	5.69	DS1L5DJ150S-C
	2.0	±50	50 ±5	910	118	408-1112-ND	9.23	6.55	5.69	DS1L5DJ200S-C
	3.0	±125	50 ±5	610	322	408-1113-ND	17.10	12.14	10.55	DS1L5DJ300S-C
	3.5	±125	50 ±5	560	415	408-1114-ND	17.10	12.14	10.55	DS1L5DJ350S-C
	4.0	±125	50 ±5	480	436	408-1115-ND	17.10	12.14	10.55	DS1L5DJ400S-C
	4.5	±125	50 ±5	440	388	408-1116-ND	17.10	12.14	10.55	DS1L5DJ450S-C
	5.0	±125	50 ±5	590	341	408-1117-ND	17.10	12.14	10.55	DS1L5DJ500S-C
	6.0	±250	50 ±5	470	294	408-1118-ND	20.81	14.77	12.84	DS1L5VJ600S-C
	7.0	±250	50 ±5	400	200	408-1119-ND	20.81	14.77	12.84	DS1L5VJ700S-C
	8.0	±250	50 ±5	350	209	408-1120-ND	20.81	14.77	12.84	DS1L5VJ800S-C
	9.0	±250	50 ±5	310	181	408-1121-ND	20.81	14.77	12.84	DS1L5VJ900S-C
	10.0	±250	50 ±5	280	166	408-1122-ND	20.81	14.77	12.84	DS1L5VJA00S-C
	0.1	±25	50 ±5	3500	2200	408-1123-ND	10.13	7.18	6.25	DS1L5DJ010K-C
	0.5	±25	50 ±5	2700	2000	408-1124-ND	10.13	7.18	6.25	DS1L5DJ050K-C
	1.0	±50	50 ±5	2100	2000	408-1125-ND	10.13	7.18	6.25	DS1L5DJ100K-C
	1.3	±50	50 ±5	2300	1500	408-1126-ND	10.13	7.18	6.25	DS1L5DJ130K-C

Fig.	Delay (Ns)	Tolerance (pS)	Impedance (Ω)	Insertion Loss GHz (-3dB)	Return Loss GHz (-15dB)	Digi-Key Part No.	Price Each			Susumu Part No.
							1	10	50	
GL1L Series 16 Pin SOIC Delay Lines										
2	0.1	±50	50 ±5	8.41	3.67	408-1127-ND	19.35	13.73	11.94	GL1L5LS010S-C
	0.5	±50	50 ±5	3.86	1.80	408-1128-ND	19.35	13.73	11.94	GL1L5LS050S-C
	1.0	±50	50 ±5	2.92	1.43	408-1129-ND	19.35	13.73	11.94	GL1L5LS100S-C
	1.5	±50	50 ±5	1.99	1.87	408-1130-ND	19.35	13.73	11.94	GL1L5MS150S-C
	2.0	±50	50 ±5	1.78	1.48	408-1131-ND	19.35	13.73	11.94	GL1L5MS200S-C
	2.5	±50	50 ±5	1.51	1.58	408-1132-ND	19.35	13.73	11.94	GL1L5MS250S-C
	3.0	±50	50 ±5	1.15	1.64	408-1133-ND	19.35	13.73	11.94	GL1L5MS300S-C
	3.5	±50	50 ±5	1.11	1.25	408-1134-ND	19.35	13.73	11.94	GL1L5MS350S-C
	4.0	±50	50 ±5	0.93	1.35	408-1135-ND	19.35	13.73	11.94	GL1L5MS400S-C
	4.5	±50	50 ±5	0.69	1.34	408-1136-ND	19.35	13.73	11.94	GL1L5MS450S-C
	5.0	±50	50 ±5	0.60	1.59	408-1137-ND	19.35	13.73	11.94	GL1L5MS500S-C

Fig.	Delay (Ps)	Tolerance (pS)	Individual Impedance (Ω)	20 ~ 80% Risetime (ps)	Digi-Key Part No.	Price Each			Susumu Part No.
						1	10	50	
GL2L Series 16 Pin SOIC Delay Lines									
2	0.1	±50	50 ±5	<144	408-1138-ND	35.33	25.07	21.79	GL2L5LS010D-C
	0.5	±50	50 ±5	<200	408-1139-ND	35.33	25.07	21.79	GL2L5LS050D-C
	1.0	±50	50 ±5	<270	408-1140-ND	35.33	25.07	21.79	GL2L5LS100D-C
	1.5	±50	50 ±5	<340	408-1141-ND	35.33	25.07	21.79	GL2L5MS150D-C
	2.0	±50	50 ±5	<410	408-1142-ND	35.33	25.07	21.79	GL2L5MS200D-C
	2.5	±50	50 ±5	<480	408-1143-ND	35.33	25.07	21.79	GL2L5MS250D-C
	3.0	-0.5	50 ±5	<550	408-1144-ND	35.33	25.07	21.79	GL2L5MS300D-C
	3.5	±100	50 ±5	<620	408-1145-ND	35.33	25.07	21.79	GL2L5MS350D-C
	4.0	±100	50 ±5	<690	408-1146-ND	35.33	25.07	21.79	GL2L5MS400D-C
	4.5	±100	50 ±5	<760	408-1147-ND	35.33	25.07	21.79	GL2L5MS450D-C

Fig.	Delay (Ns)	Tolerance (pS)	Impedance (Ω)	Insertion Loss GHz (-3dB)	Return Loss GHz (-15dB)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 100	Susumu Part No.
							1	10	50			
CL1L Series 1210 Chip Delay Lines												
3	40	±10	50 ±5	11	4.6	408-1148-1-ND	8.21	5.83	5.07	408-1148-2-ND	441.00	CL1L5AT004L-T1
	60	±10	50 ±5	12.4	4.3	408-1149-1-ND	8.21	5.83	5.07	408-1149-2-ND	441.00	CL1L5AT006L-T1
	80	±10	50 ±5	11	7.4	408-1150-1-ND	8.21	5.83	5.07	408-1150-2-ND	441.00	CL1L5AT008L-T1
	100	±10	50 ±5	9.4	4.3	408-1151-1-ND	8.21	5.83	5.07	408-1151-2-ND	441.00	CL1L5AT010L-T1
	120	±10	50 ±5	8.4	6.3	408-1152-1-ND	8.21	5.83	5.07	408-1152-2-ND	441.00	CL1L5AT012L-T1
	140	±10	50 ±5	7.4	6.1	408-1153-1-ND	8.21	5.83	5.07	408-1153-2-ND	441.00	CL1L5AT014L-T1
	160	±10	50 ±5	6.6	5.9	408-1154-1-ND	8.21	5.83	5.07	408-1154-2-ND	441.00	CL1L5AT016L-T1
	180	±10	50 ±5	5.9	4.5	408-1155-1-ND	8.21	5.83	5.07	408-1155-2-ND	441.00	CL1L5AT018L-T1
	200	±10	50 ±5	5.5	5.4	408-1156-1-ND	8.21	5.83	5.07	408-1156-2-ND	441.00	CL1L5AT020L-T1
	220	±10	50 ±5	4.9	4.9	408-1157-1-ND	8.21	5.83	5.07	408-1157-2-ND	441.00	CL1L5AT022L-T1

Fig.	Delay (Ns)	Tolerance (pS)	Differential Impedance (Ω)	20 ~ 80% Risetime (ps)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 100	Susumu Part No.
						1	10	50			
CL2L Series 1210 Chip Delay Lines											
3	40	±10	100 ±10	<20	408-1158-1-ND	14.63	10.38	9.03	408-1158-2-ND	785.00	CL2LAAT004D-C-T1
	60	±10	100 ±10	<24	408-1159-1-ND	14.63	10.38	9.03	408-1159-2-ND	785.00	CL2LAAT006D-C-T1
	80	±10	100 ±10	<24	408-1160-1-ND	14.63	10.38	9.03	408-1160-2-ND	785.00	CL2LAAT008D-C-T1
	100	±10	100 ±10	<27	408-1161-1-ND	14.63	10.38	9.03	408-1161-2-ND	785.00	CL2LAAT010D-C-T1
	120	±10	100 ±10	<31	408-1162-1-ND	14.63	10.38	9.03	408-1162-2-ND	785.00	CL2LAAT012D-C-T1
	140	±10	100 ±10	<37	408-1163-1-ND	14.63	10.38	9.03	408-1163-2-ND	785.00	CL2LAAT014D-C-T1
	160	±10	100 ±10	<37	408-1164-1-ND	14.63	10.38	9.03	408-1164-2-ND	785.00	CL2LAAT016D-C-T1
	180	±10	100 ±10	<39	408-1165-1-ND	14.63	10.38	9.03	408-1165-2-ND	785.00	CL2LAAT018D-C-T1
	200	±10	100 ±10	<45	408-1166-1-ND	14.63	10.38	9.03	408-1166-2-ND	785.00	CL2LAAT020D-C-T1

THIN FILM TECHNOLOGY

SSM SUSUMU CO., LTD

NEW! Power Choke Coils

Specifications:

- **Operating Temperature:** -55°C ~ 125°C
- **Features:** • High Power • High Saturation Current • Inductance Tolerance: 20%
- **Applications:** • DC/DC Converter for CPU's • Thin-type On-board Power Supply Module for the Exchanger

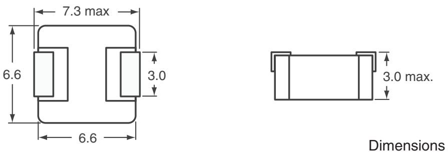

Dimensions in mm

L0 Inductance (µH) @ (0A)	R_{dc} (mΩ) Typical	R_{dc} (mΩ) Maximum	Heat Rating Current DC Amps. Idc Typical (A)	Saturation Current DC Amps. Isat Typical (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Pulse Part No.
0.10	1.5	1.7	32.5	60.0	408-1096-1-ND	1.40	1.20	.80	408-1096-2-ND	500.00	PCMC063T-R10MN
0.22	1.9	2.5	26.0	52.0	408-1097-1-ND	1.40	1.20	.80	408-1097-2-ND	500.00	PCMC063T-R22MN
0.33	3.5	3.9	20.0	30.0	408-1098-1-ND	1.40	1.20	.80	408-1098-2-ND	500.00	PCMC063T-R33MN
0.47	4.0	4.2	17.5	26.0	408-1099-1-ND	1.40	1.20	.80	408-1099-2-ND	500.00	PCMC063T-R47MN
0.68	5.0	5.5	15.5	25.0	408-1100-1-ND	1.40	1.20	.80	408-1100-2-ND	500.00	PCMC063T-R68MN
0.82	6.7	8.0	13.0	24.0	408-1101-1-ND	1.40	1.20	.80	408-1101-2-ND	500.00	PCMC063T-R82MN
1.00	9.0	10.0	11.0	22.0	408-1102-1-ND	1.40	1.20	.80	408-1102-2-ND	500.00	PCMC063T-1R0MN
1.20	10.0	12.0	10.0	20.0	408-1103-1-ND	1.40	1.20	.80	408-1103-2-ND	500.00	PCMC063T-1R2MN
1.50	14.0	15.0	9.0	18.0	408-1104-1-ND	1.40	1.20	.80	408-1104-2-ND	500.00	PCMC063T-1R5MN
2.20	18.0	20.0	8.0	14.0	408-1105-1-ND	1.75	1.50	1.00	408-1105-2-ND	625.00	PCMC063T-2R2MN
3.30	28.0	30.0	6.0	13.5	408-1106-1-ND	1.75	1.50	1.00	408-1106-2-ND	625.00	PCMC063T-3R3MN
4.70	37.0	40.0	5.5	10.0	408-1107-1-ND	1.75	1.50	1.00	408-1107-2-ND	625.00	PCMC063T-4R7MN

Pulse®
A TECHNITROL COMPANY

Wire-Wound RF Chip Inductors 0402, 0603, 0805

Specifications:

Wirewound ceramic core construction

- **Operating Temperature:** -40°C ~ 125°C
- **Terminal Plating:** Gold (0402), Tin or Gold manufacturers' discretion (0603, 0805)

Note: Inductance information is not stamped on part because of the small size.

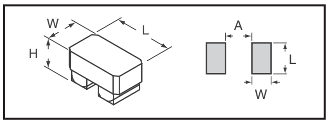

Series	Suggested Pad Layout in Inches (mm) L	W	A	Series	Dimensions in Inches (mm) Max. L	W	H
PE-0402CD	0.026 (0.66)	0.014 (0.36)	0.018 (0.46)	PE-0402CD	0.047 (1.19)	0.026 (0.66)	0.024 (0.61)
PE-0603CD	0.050 (1.27)	0.025 (0.64)	0.025 (0.64)	PE-0603CD	0.071 (1.80)	0.049 (1.24)	0.049 (1.24)
PE-0805CM	0.070 (1.78)	0.040 (1.02)	0.030 (0.76)	PE-0805CM	0.090 (2.29)	0.066 (1.68)	0.057 (1.45)

Inductance[1] (nH) ± 5%	IDC[5] (mA) Max.	Q[2] Min.	Q Tested @ (MHz)	SRF[3] (MHz) Min.	RDC[4] (Ω) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Size	Pricing	Pulse Part No.
						0402 Wire Wound						
1	1360	13	250	6000	0.045	553-1000-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD1N0JTG
3.3	840	20	250	6000	0.066	553-1001-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD3N3JTG
3.6	840	20	250	6000	0.066	553-1002-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD3N6JTG
5.1	800	23	250	5800	0.083	553-1003-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD5N1JTG
5.6	760	23	250	5800	0.083	553-1004-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD5N6JTG
6.8	680	20	250	5800	0.083	553-1005-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD6N8JTG
7.5	680	25	250	5800	0.104	553-1006-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD7N5JTG
8.2	680	25	250	4400	0.104	553-1007-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD8N2JTG
10	480	21	250	3900	0.195	553-1008-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD100JTG
15	560	26	250	3280	0.172	553-1009-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD150JTG
23	400	26	250	2720	0.214	553-1010-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD230JTG
27	400	26	250	2480	0.298	553-1011-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD270JTG
33	350	24	250	2350	0.35	553-1012-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD330JTG
40	320	26	250	2240	0.438	553-1013-1-ND	.49	.28	.19	3,000	131.00/M	PE-0402CD400JTG
						0603 Wire Wound						
3.6	700	20	250	>6000	0.07	553-1014-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD3N6JTT
5.1	700	20	250	5700	0.108	553-1015-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD5N1JTT
6.2	700	25	250	5800	0.11	553-1016-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD6N2JTT
8.2	700	30	250	4600	0.12	553-1017-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD080JTT
10	700	30	250	4800	0.13	553-1018-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD100JTT
15	700	30	250	4000	0.17	553-1019-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD150JTT
18	700	35	250	3100	0.17	553-1020-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD180JTT
22	700	35	250	3000	0.19	553-1021-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD220JTT
27	600	35	250	2800	0.22	553-1022-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD270JTT
33	600	35	250	2300	0.22	553-1023-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD330JTT
39	600	35	250	2200	0.25	553-1024-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD390JTT
47	600	35	200	2000	0.28	553-1025-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD470JTT
56	600	35	200	1900	0.31	553-1026-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD560JTT
68	600	35	200	1700	0.34	553-1027-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD680JTT
82	400	34	150	1700	0.54	553-1028-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD820JTT
120	300	32	150	1300	0.65	553-1029-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CDR12JTT
220	200	25	100	900	1.9	553-1030-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD221JTT
330	150	22	100	500	2.3	553-1031-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD331JTT
390	130	20	100	350	2.9	553-1032-1-ND	.42	.24	.16	2,000	113.00/M	PE-0603CD391JTT
						0805 Wire Wound						
10	600	60	500	3900	0.10	553-1033-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM100JTT
12	600	50	500	2900	0.13	553-1034-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM120JTT
18	600	50	500	2600	0.13	553-1035-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM180JTT
22	500	55	500	2200	0.13	553-1036-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM220JTT
33	500	58	500	1800	0.18	553-1037-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM330JTT
39	500	60	500	2000	0.23	553-1038-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM390JTT
47	500	60	500	1650	0.25	553-1039-1-ND	.37	.21	.14	2,000	105.00/M	PE-0805CM470JTT
56	500	60	500	1300	0.16	553-1040-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM560JTT
68	500	60	500	1350	0.18	553-1041-1-ND	.37	.21	.14	2,000	105.00/M	PE-0805CM680JTT
82	400	60	500	1300	0.36	553-1042-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM820JTT
120	350	45	250	1100	0.56	553-1043-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM121JTT
150	350	50	250	900	0.56	553-1044-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM151JTT
330	300	40	100	775	1.28	553-1045-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM331JTT
47 0	240	38	100	600	3.25	553-1046-1-ND	.37	.21	.14	2,000	105.00/M	PE-0805CM471JTT
560	240	40	100	600	3.1	553-1047-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM561JTT
680	240	32	50	550	3.5	553-1048-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM681JTT
820	200	23	50	215	2.35	553-1049-1-ND	.39	.23	.15	2,000	105.00/M	PE-0805CM821JTT

Notes:

1. Inductance measured using a HP4286A RF Impedance Analyzer.
2. Q measured using a HP4291A RF Impedance Analyzer with a HP16193A Test Fixture.
3. SRF measured using a HP8753C Network Analyzer.
4. R_{DC} measured using a Valhalla Scientific model 4100 ATC Digital Ohmmeter.
5. Based on a 15°C maximum temperature rise.

* For Tape and Reel part number, change 1-ND to 2-ND.

Pulse®
A TECHNITROL COMPANY

SMT Power Inductors Unshielded Drum Core P0751/2 Series

Specifications:

- **Operating Temperature:** -40°C ~ 130°C
- **Footprint:** 13.0mm X 9.4mm maximum
- **Current Rating:** Up to 6.8A
- **Inductance Range:** 1.0µH ~ 1000µH

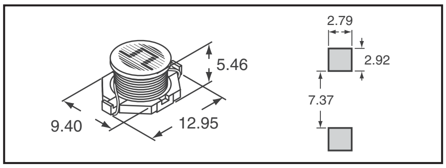

Inductance[1] @ IPK ADC (µH) ± 20%	Irated[4] (A)	DCR Max. (mΩ)	Saturation[2] Current @ 25°C (A)	Heating[3] Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Size	Pricing	Pulse Part No.
1.0	6.8	10	9.0	6.8	553-1055-1-ND	.82	.48	.33	800	208.80	P0751.102NLT
1.5	6.4	12	8.0	6.4	553-1056-1-ND	.82	.48	.33	800	208.80	P0751.152NLT
2.2	6.1	15	7.0	6.1	553-1057-1-ND	.82	.48	.33	800	208.80	P0751.222NLT
3.3	5.4	18	6.4	5.4	553-1058-1-ND	.82	.48	.33	800	208.80	P0751.332NLT
4.7	4.8	33	5.4	4.8	553-1059-1-ND	.82	.48	.33	800	208.80	P0751.472NLT
6.8	4.4	44	4.6	4.4	553-1060-1-ND	.82	.48	.33	800	208.80	P0751.682NLT
10	3.8	50	3.8	3.9	553-1061-1-ND	.82	.48	.33	800	208.80	P0751.103NLT
15	3.0	55	3.0	3.1	553-1062-1-ND	.82	.48	.33	800	208.80	P0751.153NLT
22	2.6	114	2.6	2.7	553-1063-1-ND	.82	.48	.33	800	208.80	P0751.223NLT
33	2.0	120	2.0	2.1	553-1064-1-ND	.82	.48	.33	800	208.80	P0751.333NLT
47	1.6	168	1.6	1.8	553-1065-1-ND	.82	.48	.33	800	208.80	P0751.473NLT
68	1.4	240	1.4	1.5	553-1066-1-ND	.82	.48	.33	800	208.80	P0751.683NLT
100	1.2	380	1.2	1.3	553-1067-1-ND	.82	.48	.33	800	222.40	P0752.104NLT
150	1.0	570	1.0	1.0	553-1068-1-ND	.82	.48	.33	800	222.40	P0752.154NLT
220	0.8	840	0.8	0.8	553-1069-1-ND	.82	.48	.33	800	222.40	P0752.224NLT
330	0.6	1020	0.6	0.6	553-1070-1-ND	.82	.48	.33	800	222.40	P0752.334NLT
470	0.5	1460	0.5	0.5	553-1071-1-ND	.82	.48	.33	800	222.40	P0752.474NLT
680	0.4	2170	0.4	0.4	553-1072-1-ND	.82	.48	.33	800	222.40	P0752.684NLT
1000	0.3	3300	0.3	0.3	553-1073-1-ND	.82	.48	.33	800	222.40	P0752.105NLT

Notes: The temperature of the component (ambient plus temperature rise) must be within the specified operating temperature range.
1. Inductance tested at 100kHz, 10 mVRMS.
2. Inductance drop = 10% typical at the Saturation Current.
3. ΔT = 15°C rise typical at the Heating Current.
4. The rated current is the lower of the saturation or heating current.

* For Tape and Reel part number, change 1-ND to 2-ND.

SMT Power Inductor Shielded Drum Core P1167 Series

Specifications:

- **Operating Temperature:** -40°C ~ 130°C
- **Current Rating:** Up to 3.5A
- **Footprint:** 7.5mm x 7.5mm maximum
- **Inductance Range:** 1.8µH ~ 750µH

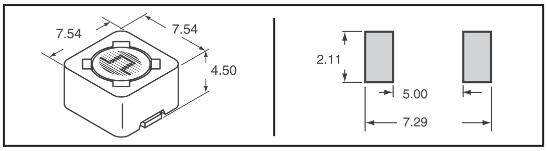

Inductance @ Rated Current (µH) Minimum	Rated Current IDC	DCR (mΩ) Typ.	Maximum	Inductance @ 0 IDC (µH) ± 20%	Saturation Current @ 25°C (A)	Heating Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 900	Pulse Part No.
1.8	3.5	13	16	2.7*	3.5	3.6	553-1074-1-ND	1.28	.75	.52	553-1074-2-ND	367.20	P1167.272NLT
2.3	3.1	15	20	3.6*	3.1	3.4	553-1075-1-ND	1.28	.75	.52	553-1075-2-ND	367.20	P1167.362NLT
2.9	2.6	25	30	4.5*	2.9	2.6	553-1076-1-ND	1.28	.75	.52	553-1076-2-ND	367.20	P1167.452NLT
3.5	2.5	27	33	5.4*	2.7	2.5	553-1077-1-ND	1.28	.75	.52	553-1077-2-ND	367.20	P1167.542NLT
4.1	2.4	30	35	6.3*	2.5	2.4	553-1078-1-ND	1.28	.75	.52	553-1078-2-ND	367.20	P1167.632NLT
7.5	2.0	42	50	10	2.1	2.0	553-1079-1-ND	1.28	.75	.52	553-1079-2-ND	367.20	P1167.103NLT
9.0	1.9	46	57	12	1.9	1.9	553-1080-1-ND	1.28	.75	.52	553-1080-2-ND	367.20	P1167.123NLT
11.3	1.7	53	66	15	1.7	1.8	553-1081-1-ND	1.28	.75	.52	553-1081-2-ND	367.20	P1167.153NLT
13.5	1.5	59	73	18	1.5	1.7	553-1082-1-ND	1.28	.75	.52	553-1082-2-ND	367.20	P1167.183NLT
16.5	1.4	87	105	22	1.4	1.4	553-1083-1-ND	1.28	.75	.52	553-1083-2-ND	367.20	P1167.223NLT
20.3	1.2	100	130	27	1.2	1.3	553-1084-1-ND	1.28	.75	.52	553-1084-2-ND	367.20	P1167.273NLT
24.8	1.1	139	170	33	1.1	1.1	553-1085-1-ND	1.28	.75	.52	553-1085-2-ND	367.20	P1167.333NLT
29.3	1.0	156	200	39	1.0	1.0	553-1086-1-ND	1.28	.75	.52	553-1086-2-ND	367.20	P1167.393NLT
35.3	0.94	173	220	47	0.94	1.0	553-1087-1-ND	1.28	.75	.52	553-1087-2-ND	367.20	P1167.473NLT
42.0	0.88	225	270	56	0.86	0.86	553-1088-1-ND	1.28	.75	.52	553-1088-2-ND	367.20	P1167.563NLT
51.0	0.78	251	310	68	0.78	0.81	553-1089-1-ND	1.28	.75	.52	553-1089-2-ND	367.20	P1167.683NLT
61.5	0.70	282	350	82	0.70	0.77	553-1090-1-ND	1.28	.75	.52	553-1090-2-ND	367.20	P1167.823NLT
75.0	0.63	317	390	100	0.63	.072	553-1091-1-ND	1.28	.75	.52	553-1091-2-ND	367.20	P1167.104NLT
90.0	0.57	418	530	120	0.57	0.63	553-1092-1-ND	1.28	.75	.52	553-1092-2-ND	367.20	P1167.124NLT
113	0.52	497	610	150	0.52	0.58	553-1093-1-ND	1.28	.75	.52	553-1093-2-ND	367.20	P1167.154NLT
135	0.47	635	820	180	0.47	0.51	553-1094-1-ND	1.28	.75	.52	553-1094-2-ND	367.20	P1167.184NLT
165	0.43	745	930	220	0.43	0.47	553-1095-1-ND	1.28	.75	.52	553-1095-2-ND	367.20	P1167.224NLT
203	0.39	840	1040	270	0.39	0.44	553-1096-1-ND	1.28	.75	.52	553-1096-2-ND	367.20	P1167.274NLT
248	0.35	1162	1470	330	0.35	0.38	553-1097-1-ND	1.28	.75	.52	553-1097-2-ND	367.20	P1167.334NLT
293	0.32	1237	1570	390	0.32	0.37	553-1098-1-ND	1.28	.75	.52	553-1098-2-ND	367.20	P1167.394NLT
353	0.29	1688	2180	470	0.29	0.31	553-1099-1-ND	1.28	.75	.52	553-1099-2-ND	367.20	P1167.474NLT
420	0.26	2240	2960	560	0.26	0.27	553-1100-1-ND	1.28	.75	.52	553-1100-2-ND	367.20	P1167.564NLT
510	0.23	2402	3180	680	0.23	0.26	553-1101-1-ND	1.28	.75	.52	553-1101-2-ND	367.20	P1167.684NLT
615	0.21	2702	3500	820	0.21	0.25	553-1102-1-ND	1.28	.75	.52	553-1102-2-ND	367.20	P1167.824NLT
750	0.19	3703	4930	1000	0.19	0.21	553-1103-1-ND	1.28	.75	.52	553-1103-2-ND	367.20	P1167.105NLT

* Inductance at 0 IDC tolerance on indicated part numbers is ±30%; tolerance is ±20% on all other parts.

Toroid Power Inductors — Bare Coil Series

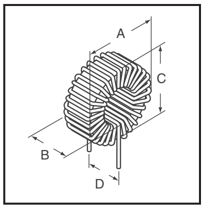

Specifications:

- **Current Range:** Up to 48A
- **Frequency Range:** Up to 1MHz
- **Operating Temperature:** -40°C ~ 130°C
- **Electrical Specifications:** Measured at 25°C

Inductance @ Rated Current (µH) Typ.	Rated Current IDC	DCR Maximum (mΩ)	Inductance @ 0 IDC (µH) ± 20%	Dimensions – Inches (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Pulse Part No.
0.48	30.5	2.0	0.60	.807 (20.50)	.374 (9.50)	.748 (19.00)	.354 (9.00)	553-1104-ND	1.03	.60	.42	PG0122
0.49	48.0	0.85	0.86	.807 (20.50)	.413 (10.50)	.748 (19.00)	.354 (9.00)	553-1105-ND	1.28	.75	.52	PG0123
0.50	22.5	1.5	0.88	.625 (15.90)	.345 (8.80)	.545 (13.80)	.300 (7.60)	553-1106-ND	.55	.32	.21	PA0690
0.67	22.5	2.6	0.86	—	.400 (10.20)	.660 (16.80)	.300 (7.60)	553-1107-ND	.92	.54	.37	PA0235L
0.80	21.5	2.0	1.70	.625 (15.90)	.345 (8.80)	.545 (13.80)	.300 (7.60)	553-1108-ND	.55	.32	.21	PA0689
0.86	37.5	1.6	1.96	.874 (22.20)	.374 (9.50)	—	.245 (6.20)	553-1109-ND	.92	.54	.37	PA0430L
0.93	23.8	3.8	1.44	.906 (23.00)	.492 (12.50)	.906 (23.00)	.300 (7.60)	553-1110-ND	.74	.42	.28	P1967L
1.02	14.9	4.2	1.70	.571 (14.50)	.276 (7.00)	.571 (14.50)	.276 (7.00)	553-1111-ND	.49	.28	.19	PG0116
1.05	19.0	2.7	2.24	.604 (15.30)	.323 (8.20)	.556 (14.10)	.250 (6.40)	553-1112-ND	.68	.39	.25	PA0489L
1.10	13.8	7.0	2.50	.630 (16.00)	.374 (9.50)	.630 (16.00)	.295 (7.50)	553-1113-ND	.67	.39	.27	PG0112
1.81	14.3	5.0	3.50	.610 (15.50)	.325 (8.30)	—	.300 (7.60)	553-1114-ND	.68	.39	.25	P1715L
3.22	20.5	5.5	7.80	.874 (22.20)	.374 (9.50)	—	.240 (6.10)	553-1115-ND	1.13	.66	.46	PA0431L
5.00	20.5	7.5	12.10	.980 (24.90)	.440 (11.20)	.980 (24.90)	.310 (7.90)	553-1116-ND	.98	.57	.40	PA0432L

Pulse®
A TECHNITROL COMPANY

Power Toroid Inductors - for National Simple Switcher™

Specifications: • Base Material meets flammability requirements of UL94V-0 • Operating Temperature: -40°C ~ 130°C

150KHz Inductors are tested and recommended by National Semiconductor for the LM259X series regulators.

260KHz Inductors are tested and recommended by National Semiconductor for the LM267X series regulators.

Fig. 1

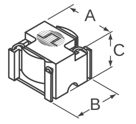

Fig. 2

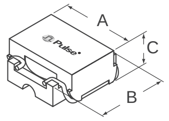

Fig. 3

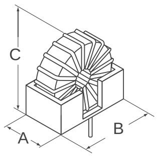

Package Type	Dimensions – Inches (mm)		
	A	B	C
LCI-20	.340 (8.64)	.340 (8.64)	.270 (6.86)
LCI-30	.435 (11.05)	.440 (11.18)	.360 (9.14)
LCI-37	.565 (14.35)	.570 (14.48)	.360 (9.14)
LCI-44	.600 (15.24)	.620 (15.75)	.390 (9.91)
LCI-50	.670 (17.02)	.700 (17.78)	.390 (9.91)
HCI-68	.940 (23.87)	.940 (23.87)	.400 (10.16)

Package Type	Dimensions – Inches (mm)			Lead Space
	A	B	C	
Big Foot	1.00 (25.40)	1.22 (30.99)	0.50 (12.70)	—
KM-1.1	0.35 (8.89)	0.58 (14.74)	0.71 (18.17)	0.22 (5.60)
KM-2.0	0.45 (11.43)	0.65 (21.08)	0.70 (17.78)	0.30 (7.62)
KM-2.1	0.46 (11.69)	0.67 (17.02)	0.75 (19.05)	0.30 (7.62)
KM-3.0	0.45 (11.43)	0.83 (21.09)	0.95 (24.13)	0.30 (7.62)
KM-4.0	0.60 (15.24)	0.95 (24.13)	1.35 (34.29)	0.45 (11.44)

150KHz Inductors

Fig.	Package Type	Inductance Nominal (µH) ±20%	Rated Current (IDC)	ET$_{OP}$ Maximum (V-µSec)*	DCR Nominal (Ω)	National Reference No.	Digi-Key Part No.	Price Each 1	10	100	Pulse Part No.
1	LCI-20	178	0.16	16.5	2.8	LM259X-L2	553-1269-5-ND	2.23	1.45	1.11	PE-53802S
	LCI-20	55	0.3	6.6	1	LM259X-L5	553-1270-5-ND	2.17	1.34	.98	PE-53805S
	LCI-20	39	0.34	6.6	0.8	LM259X-L6	553-1271-5-ND	1.84	1.20	.92	PE-53806S
	LCI-30	374	0.2	75.9	2.7	LM259X-L8	553-1272-5-ND	1.64	1.01	.74	PE-53808S
	LCI-30	176	0.3	26.4	1.4	LM259X-L10	553-1273-5-ND	1.59	.99	.73	PE-53810S
	LCI-30	118	0.38	19.8	1.2	LM259X-L11	553-1274-5-ND	1.59	.99	.73	PE-53811S
	LCI-30	78	0.46	16.5	0.8	LM259X-L12	553-1275-5-ND	2.33	1.44	1.06	PE-53812S
	LCI-30	55	0.56	13.2	0.5	LM259X-L13	553-1276-5-ND	2.13	1.32	.97	PE-53813S
	LCI-30	39	0.68	9.9	0.3	LM259X-L14	553-1277-5-ND	2.00	1.24	.91	PE-53814S
	LCI-30	26	0.84	6.6	0.2	LM259X-L15	553-1278-5-ND	1.84	1.14	.84	PE-53815S
	LCI-30	17	1.02	6.6	0.1	LM259X-L16	553-1279-5-ND	2.17	1.34	.98	PE-53816S
	LCI-37	375	0.36	75.9	1.3	LM259X-L17	553-1280-5-ND	2.33	1.44	1.06	PE-53817S
	LCI-37	252	0.44	49.5	0.9	LM259X-L18	553-1281-5-ND	1.96	1.22	.89	PE-53818S
	LCI-37	173	0.54	36.30	0.6	LM259X-L19	553-1282-5-ND	1.59	.99	.73	PE-53819S
	LCI-37	115	0.67	29.7	0.4	LM259X-L20	553-1283-5-ND	2.62	1.62	1.19	PE-53820S
	LCI-37	78	0.82	23.1	0.3	LM259X-L21	553-1284-5-ND	2.17	1.34	.98	PE-53821S
	LCI-37	54	1.0	16.5	0.2	LM259X-L22	553-1285-5-ND	2.17	1.34	.98	PE-53822S
	LCI-37	38	1.2	13.2	0.1	LM259X-L23	553-1286-5-ND	2.17	1.34	.98	PE-53823S
	LCI-37	26	1.48	9.9	0.1	LM259X-L24	553-1287-5-ND	2.00	1.24	.91	PE-53824S
	LCI-37	18	1.81	9.9	0.06	LM259X-L25	553-1288-5-ND	2.17	1.34	.98	PE-53825S
	LCI-44	377	0.68	75.9	1	LM259X-L26	553-1289-5-ND	2.17	1.34	.98	PE-53826S
	LCI-44	248	0.83	72.6	0.6	LM259X-L27	553-1290-5-ND	2.17	1.34	.98	PE-53827S
	LCI-44	168	1.02	56.1	0.4	LM259X-L28	553-1291-5-ND	2.17	1.34	.98	PE-53828S
	LCI-44	112	1.26	42.9	0.3	LM259X-L29	553-1292-5-ND	2.00	1.24	.91	PE-53829S
	LCI-44	77	1.54	33	0.2	LM259X-L30	553-1293-5-ND	2.00	1.24	.91	PE-53830S
	LCI-44	53	1.87	26.4	0.13	LM259X-L31	553-1294-5-ND	2.00	1.24	.91	PE-53931S
	LCI-44	37	2.24	19.8	0.1	LM259X-L32	553-1295-5-ND	2.17	1.34	.98	PE-53932S
	LCI-44	24	2.74	16.5	0.07	LM259X-L33	553-1296-5-ND	2.17	1.34	.98	PE-53933S
	LCI-44	17	3.0	13.2	0.05	LM259X-L34	553-1297-5-ND	2.00	1.24	.91	PE-53934S
2	HCI-68	250	1.5	72.6	0.23	LM259X-L35	553-1298-5-ND	2.19	1.43	1.09	PE-53935S
	HCI-68	168	1.81	75.9	0.18	LM259X-L36	553-1299-5-ND	2.57	1.68	1.28	PE-54036S
	HCI-68	77	2.7	52.8	0.09	LM259X-L38	553-1301-5-ND	2.19	1.43	1.09	PE-54038S
	HCI-68	53	3.0	42.9	0.08	LM259X-L39	553-1302-5-ND	2.57	1.68	1.28	PE-54039S
	HCI-68	38	3.0	29.7	0.05	LM259X-L40	553-1303-5-ND	2.02	1.31	1.01	PE-54040S
1	LCI-50	25	3.0	19.8	0.04	LM259X-L41	553-1304-5-ND	1.84	1.14	.84	PE-54041S
2	HCI-68	77	3.0	59.4	0.08	LM259X-L44	553-1305-5-ND	2.26	1.47	1.13	PE-54044S

* ET$_{OP}$ rated at 150 KHz.

260KHz Inductors

RoHS COMPLIANT

Fig.	Package Type	Inductance Nominal (µH) ±20%	Rated Current (IDC)	ET$_{OP}$ Maximum (V-µSec)‡	DCR Nominal (Ω)	National Reference No.	Digi-Key Part No.	Price Each 1	10	100	Pulse Part No.
						KlipMount™					
3	KM-3.0	22.8	4.9	23.3	.036	LM267X-L41	553-1117-ND	3.03	1.97	1.51	P0841NL
	KM-1.1	10.2	4.3	10	.026	LM267X-L45	553-1118-ND	1.43	.89	.65	P0845NL
	KM-2.1	14.8	5.0	17	.023	LM267X-L46	553-1119-ND	1.96	1.22	.89	P0846NL
	KM-2.0	10	5.0	13	.025	LM267X-L47	553-1120-ND	1.68	1.04	.76	P0847NL
	KM-4.0	50	5.0	40	.050	LM267X-L48	553-1121-ND	4.11	2.67	2.05	P0848NL
	KM-4.0	33	5.0	36	.047	LM267X-L49	553-1122-ND	2.99	1.95	1.49	P0849NL
	KM-3.0	23	5.0	24	.026	LM267X-L50	553-1123-ND	2.89	1.88	1.44	P0850NL
						Surface Mount					
2	HCI-68	22.8	4.9	23.3	.036	LM267X-L41	553-1124-ND	2.66	1.65	1.21	P0841SNL
1	LCI-44	10	4.3	10	.050	LM267X-L45	553-1125-5-ND	2.17	1.34	.98	P0845SNL
	LCI-50	15	5.0	17	.027	LM267X-L46	553-1126-5-ND	1.80	1.12	.82	P0846SNL
	LCI-50	11	5.0	13	.025	LM267X-L47	553-1127-5-ND	2.04	1.27	.93	P0847SNL
2	Big Foot	52	5.0	40	.025	LM267X-L48	553-1128-ND	3.41	2.22	1.70	P0848SNL
	Big Foot	36	5.0	36	.019	LM267X-L49	553-1129-ND	3.48	2.26	1.73	P0849SNL
	Big Foot	24.7	5.0	24	.013	LM267X-L50	553-1130-ND	3.41	2.22	1.70	P0850SNL

‡ ET$_{OP}$ rated at 260 KHz.

Note: Simple Switcher is a trademark of National Semiconductor.

Pulse® A TECHNITROL COMPANY

SMT Power Inductor Toroid SLIC Series

Specifications: • **Operating Temperature:** -40°C ~ 130°C • **Current Ratings:** up to 23.8 ADC • **Frequency Range:** up to 1MHz

Fig. 1

Package	Dimensions – Inch (mm)		
	A	B	C
LCI-20	.340 (8.64)	.340 (8.64)	.270 (6.86)
LCI-30	.435 (11.05)	.440 (11.18)	.360 (9.14)
LCI-37	.565 (14.35)	.570 (14.48)	.360 (9.14)
LCI-44	.600 (15.24)	.620 (15.75)	.390 (9.91)
LCI-50	.670 (17.02)	.700 (17.78)	.390 (9.91)

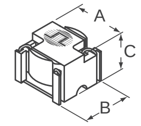

Fig. 2

Package	Dimensions – Inch (mm)		
	A	B	C
LCCI-37	.560 (14.22)	.645 (16.38)	.350 (8.89)
LCCI-44	.590 (14.99)	.715 (18.16)	.390 (9.91)
LCCI-50	.670 (17.02)	.770 (19.56)	.390 (9.91)

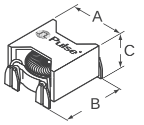

Fig. 3

Package	Dimensions – Inch (mm)		
	A	B	C
HCI-37	.620 (15.75)	.605 (15.37)	.370 (9.40)
HCI-44	.670 (17.02)	.670 (17.02)	.390 (9.91)
HCI-50	.740 (18.80)	.740 (18.80)	.390 (9.91)
HCI-68	.940 (23.88)	.940 (23.88)	.390 (9.91)

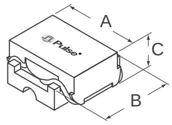

Fig. 4

Package	Dimensions – Inch (mm)		
	A	B	C
HCCI-44	.715 (18.16)	.800 (20.32)	1.000 (25.40)
HCCI-50	.865 (21.97)	.910 (23.11)	1.110 (28.19)
HCCI-68	.390 (9.91)	.390 (9.91)	.390 (9.91)

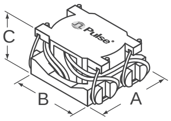

Fig.	Package Type	Inductance @ Irated (µH)	Irated (A)	Inductance @ 0 A_{DC} (µH)	DCR (mΩ) Typical	DCR (mΩ) Maximum	Reference ET (Volt-uSec)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Pulse Part No.
					Low Current Inductors - LCI Type							
1	LCI-20	1.01	3.4	1.1	9.35	11	0.53	553-1131-ND	1.44	.84	.58	PE-53630
	LCI-37	2.5	8.0	3.8	7.055	8.3	1.77	553-1132-ND	1.47	.91	.67	PE-53661
	LCI-30	3.8	4.8	5.2	14.705	17.3	1.76	553-1133-ND	1.23	.72	.50	PE-53650
	LCI-44	4.9	7.8	7.9	10.54	12.4	3.04	553-1134-ND	1.59	.93	.64	PE-53662
	LCI-37	5.1	5.4	7.5	15.045	17.7	2.51	553-1135-ND	1.51	.94	.69	PE-53651
	LCI-20	6.2	1.4	7	59.5	70	1.33	553-1136-ND	1.35	.84	.61	PE-53600
	LCI-44	9.0	5.5	14	25.0	28	4.06	553-1137-ND	1.44	.84	.58	PE-53652
	LCI-50	9.3	7.2	16	15.895	18.7	4.92	553-1138-ND	1.39	.86	.63	PE-53663
	LCI-30	9.4	2.8	12.3	36.89	43.4	2.70	553-1139-ND	1.49	.87	.60	PE-53631
	LCI-37	16.2	2.7	21.9	63.0	72	4.29	553-1141-ND	1.43	.89	.65	PE-53632
	LCI-20	17.6	1.0	22.7	106.25	125	2.40	553-1142-ND	1.55	.96	.71	PE-53601
	LCI-44	29.1	2.7	40.5	85.0	100	6.90	553-1143-ND	1.35	.84	.61	PE-53633
	LCI-30	29.7	1.4	35.3	141.1	166	4.60	553-1144-ND	1.39	.81	.56	PE-53602
	LCI-50	50	2.6	72.9	113.05	133	10.5	553-1145-ND	1.55	.96	.71	PE-53634
	LCI-37	58.1	1.3	73	246.5	290	7.83	553-1146-ND	1.55	.96	.71	PE-53604
	LCI-30	114	0.94	167	323	380	10.0	553-1147-ND	1.54	.90	.62	PE-53606
	LCI-37	192	0.90	292	476	560	15.7	553-1148-ND	1.72	1.07	.78	PE-53608
	LCI-37	383	0.72	672	732.7	862	23.5	553-1149-ND	1.92	1.19	.87	PE-53611
	LCI-44	645	0.74	1134	1062.5	1250	36.5	553-1150-ND	1.51	.94	.69	PE-53613
	LCI-50	1070	0.71	1950	1445	1700	54.4	553-1151-ND	1.51	.94	.69	PE-53614
					Low Current Coupled Inductors - LCCI Type							
2	LCCI-50	4.025	6.4	6.575	18.4	23	3.135	553-1152-ND	1.88	1.17	.85	PE-53719
	LCCI-44	21.9	2.7	39.5	72.4	90.5	6.90	553-1153-ND	1.88	1.17	.85	PE-53718
	LCCI-37	43.6	1.1	77	247.2	309	7.83	553-1154-ND	3.65	2.01	1.24	PE-53717
					High Current Inductors - HCI Type							
3	HCI-37	0.81	14.3	1.25	2.125	2.5	1.035	553-1155-ND	1.64	1.01	.74	PE-53690
	HCI-37	1.32	11.5	2.1	3.4	4.0	1.33	553-1156-ND	1.64	1.01	.74	PE-53680
	HCI-44	1.68	13.9	2.8	3.06	3.6	1.83	553-1157-ND	1.55	.96	.71	PE-53691
	HCI-44	2.5	11.4	4.2	4.59	5.4	2.23	553-1158-ND	1.55	.96	.71	PE-53681
	HCI-50	3.5	12.4	6.5	5.61	6.6	3.10	553-1159-ND	1.84	1.14	.84	PE-53692
	HCI-50	4.7	10.4	8.4	7.055	8.3	3.58	553-1160-ND	1.84	1.14	.84	PE-53682
	HCI-68	5.2	15.4	10.5	5.27	6.2	5.21	553-1161-ND	2.17	1.34	.98	PE-53700
	HCI-68	9.4	10.9	17.6	10.455	12.3	6.84	553-1162-ND	1.96	1.22	.89	PE-53683
					High Current Coupled Inductors - HCCI Type							
4	HCCI-44	0.53	23.8	0.88	1	3	1	553-1163-ND	2.00	1.24	.91	PE-53361
	HCCI-50	1.1	21.0	2.1	1.7	2.5	1.75	553-1164-ND	2.53	1.57	1.15	PE-53362
	HCCI-68	2.1	22.4	4	2.5	3.4	3.25	553-1165-ND	2.30	1.50	1.15	PE-53363

Note: Electrical Specification tested at 25°C
Reference values are for an inductor with a 55°C temperature rise.

Telecommunication Transformers T1/E1 and T3/E3

Transformers designed for digital and analog telecom applications supporting a wide variety of leading transceiver IC manufacturers. **Specifications:** • **Standard Operating Temperature:** 0°C ~ 70°C • **Extended Temperature:** -40°C ~ 85°C • **Agency Approvals:** UL1459 / UL1950, EN60950 per BABT • **Isolation Voltage:** 1500Vrms

Fig. 1

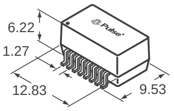

Fig. 2

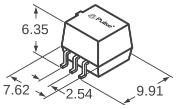

Schematic:

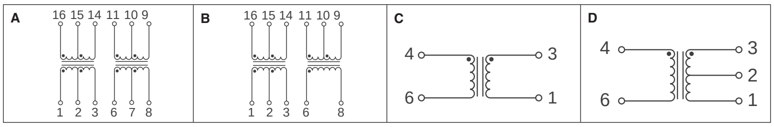

Fig.	Schematic	Temperature Rating	Turns Ratio B Primary : Secondary (±5%)	Primary Inductance (mH Minimum)	Primary Pins	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Pulse Part No.
				T1/E1 Dual Transmit and Receive Transformer						
1	A	Standard	1CT:1CT / 1CT:1.36CT	1.2	16-14, 6-8	553-1166-ND	3.55	2.31	1.77	T1190
			1CT:1CT / 1CT:2CT	1.2	16-14,6-8	553-1167-ND	3.55	2.31	1.77	PE-68678
			1CT:1.15CT / 1CT:1.15CT	1.2	1-3, 6-8	553-1168-ND	3.55	2.31	1.77	PE65870
			1CT:1.41CT / 1CT:1.41CT	1.0	16-14, 11-9	553-1169-ND	3.55	2.31	1.77	PE-68786
			1CT:2CT / 1CT:2CT	1.2	16-14,6-8	553-1170-ND	3.55	2.31	1.77	PE-65861
	A	Standard	1CT:2.42CT / 1CT:2.42CT	1.2	1-3, 6-8	553-1171-ND	3.55	2.31	1.77	T1137
		Extended	1CT:1CT / 1CT:2CT	1.2	16-14,6-8	553-1172-ND	3.55	2.31	1.77	T1094
		Extended	1CT:1CT / 1CT:2.4CT	1.0	9-11, 1-3	553-1173-ND	3.55	2.31	1.77	T1144
		Extended	1CT:1.15CT / 1CT:1.15CT	1.2	1-3, 6-8	553-1174-ND	3.55	2.31	1.77	T1093
		Extended	1CT:1.41CT / 1CT:1.41CT	1.0	16-14, 11-9	553-1175-ND	3.55	2.31	1.77	T1095
	B	Extended	1CT:2CT / 1:1.36CT	1.2	16-14,6-8	553-1176-ND	3.55	2.31	1.77	T1091
	A		1CT:2CT / 1CT:2CT		16-14,6-8	553-1177-ND	3.55	2.31	1.77	T1090
	A		1CT:2.42CT / 1CT:2.42CT		1-3, 6-8	553-1178-ND	3.55	2.31	1.77	TX1287
				T3/E3 Single Transmit and Receive Transformer						
2	C	Standard	1:1*	.040	4-6	553-1179-ND	3.96	2.71	2.16	PE-65967
	D	Standard	1:2CT*	.019	4-6	553-1180-ND	3.96	2.71	2.16	PE-65968
	C	Extended	1:1*	.100	1-3	553-1181-ND	4.23	2.90	2.31	T3001
	D	Extended	1:2CT*	.040	4-6	553-1182-ND	4.23	2.90	2.31	T3002

* Primary : Secondary Tolerance is ±2%

LAN Discrete Modules

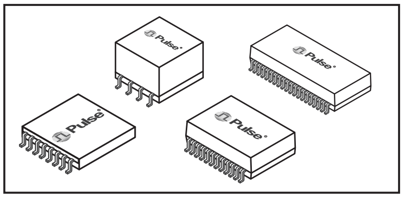

Pulse offers the most comprehensive line of discrete LAN magnetics modules available to the OEM worldwide. With technological advancements such as patented InterLock Base construction. Modules for 10/100/1000BASE-TX (Gigabit), 10/100BASE-TX, 10BASE-T, and ATM applications are optimized for all major LAN transceivers. All modules provide electrical circuit isolation that meets applicable IEEE and ANSI standards, while maintaining signal integrity needed for the most demanding applications. 10BASE-T modules have various levels of filtering for use with each referenced IC. 10/100BASE-TX and Gigabit modules provide "tuned" common mode noise attenuation best matched to the transceiver being considered.

Operating Temperature: 0°C ~ 70°C (unless otherwise noted)

Number of Ports	Turns Ratio	Configuration*	Package Style**	Package L x W x H*** Inches (mm) - Maximum	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Pulse Part No.
Gigabit Ethernet 10/100/1000BASE-T									
1	1CT:1CT	T,C	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16 x 5.71)	553-1189-ND	8.85	6.06	4.82	H5004
1	1CT:1CT	T,C	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16 x 5.71)	553-1190-ND§	8.21	6.01	4.98	HX5004
1	1CT:1	T,C,S	24-PIN SOIC	.690 x .630 x .225 (17.53 x 16 x 5.71)	553-1191-ND	5.85	4.01	3.19	H5007
1	1CT:1CT	T,C,S	24-PIN SOIC	.537 x .740 x .225 (13.64 x 18.80 x 5.71)	553-1192-ND	9.30	6.37	5.07	H5008
1	1CT:1	T,C,S	24-PIN SOIC	.537 x .740 x .225 (13.64 x 18.80 x 5.71)	553-1193-ND§	8.89	6.51	5.39	HX5008
2	1CT:1CT	T,C,S	48-PIN SMT	1.095 x .600 x .285 (27.81 x 15.24 x 7.24)	553-1194-ND◆	12.50	9.15	7.58	H5012
2	1CT:1CT	T,C	48-PIN SMT	1.095 x .600 x .285 (27.81 x 15.24 x 7.24)	553-1195-ND◆	11.74	8.59	7.12	H5014
2	1CT:1CT	T,C	48-PIN SMT	1.095 x .600 x .285 (27.81 x 15.24 x 7.24)	553-1196-ND§◆	12.93	9.46	7.84	HX5014
2	1CT:1CT	T,C	48-PIN SMT	1.100 x .430 x .340 (27.94 x 10.92 x 8.64)	553-1197-ND◆	11.74	8.59	7.12	H5020
2	1CT:1CT	T,C	48-PIN SMT	1.100 x .430 x .340 (27.94 x 10.92 x 8.64)	553-1198-ND§◆	12.93	9.46	7.84	HX5020

Number of Ports	Turns Ratio	Configuration* TX	Configuration* RX	Package Style**	Package L x W x H*** Inches (mm) - Maximum	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Pulse Part No.
Fast Ethernet 10/100BASE-TX										
1	1CT:1CT	T,C	C,T	16-PIN PCMCIA	.560 x .670 x .082 (14.22 x 17.02 x 2.08)	553-1199-ND	4.80	3.29	2.62	H0009
1	1CT:1CT	T,C	C,T	16-PIN PCMCIA	.500 x .380 x .084 (12.7 x 9.65 x 2.13)	553-1200-ND	4.95	3.39	2.70	H0019
1	1CT:1CT	T,C,S	C,T	12-PIN PCMCIA	.465 x .450 x .085 (11.81 x 11.43 x 2.16)	553-1201-ND	5.46	3.74	2.98	H0022
1	1CT:1CT	T,C,S	C,T	16-PIN SMT	1.00 x .505 x .245 (25.4 x 12.83 x 6.22)	553-1202-ND	3.54	2.43	1.93	H1012
1	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .370 x .235 (12.7 x 9.4 x 5.97)	553-1203-ND	3.83	2.49	1.91	H1102
1	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .380 x .236 (12.7 x 9.65 x 5.99)	553-1205-ND	3.48	2.26	1.73	H1260
1	1CT:1CT	T,C,S	C,T	24-PIN SMT	.690 x .630 x .225 (17.53 x 16.00 x 5.71)	553-1206-ND	3.65	2.38	1.82	H1267
1	1CT:1CT	T,C,S	C,T	16-PIN SMT	1.00 x .505 x .245 (25.4 x 12.83 x 6.22)	553-1207-ND§	6.18	4.23	3.37	HX1148
1	1CT:1CT	T,C	T,C	16-PIN SOIC	.500 x .380 x .235 (12.7 x 9.65 x 5.97)	553-1208-ND§	4.21	2.74	2.10	HX1188
1	1CT:1CT	C,T	C,T	16-PIN SOIC	.500 x .380 x .235 (12.7 x 9.65 x 5.97)	553-1209-ND§	4.00	2.60	1.99	HX1198
2	1CT:1CT	T,C,S	C,T	40-PIN SOIC	1.125 x .640 x .230 (28.58 x 16.26 x 5.84)	553-1210-ND	8.31	5.69	4.53	H1028
2	1CT:1CT	T,C	C,T	24-PIN SMT	.515 x .590 x .145 (13.08 x 14.99 x 3.68)	553-1211-ND◆	6.30	4.32	3.43	H1174
2	1CT:1CT	T,C	T,C	24-PIN SMT	.515 x .590 x .145 (13.08 x 14.99 x 3.68)	553-1212-ND◆	6.00	4.11	3.27	H1270
4	1CT:1CT	T,C	C,T	40-PIN SOIC	1.125 x .630 x .280 (28.58 x 16.00 x 7.11)	553-1213-ND‡	7.70	5.64	4.67	H1036L
4	1CT:1CT	T,C	C,T	40-PIN SOIC	1.125 x .630 x .280 (28.58 x 16.00 x 7.11)	553-1214-ND‡	7.70	5.64	4.67	H1044
4	1CT:1CT	T,C	C,T	40-PIN SOIC	1.125 x .630 x .280 (28.58 x 16.00 x 7.11)	553-1215-ND‡	8.08	5.91	4.90	H1053
4	1CT:1CT	T,C	C,T	40-PIN SOIC	1.125 x .630 x .280 (28.58 x 16.00 x 7.11)	553-1216-ND‡	8.08	5.91	4.90	H1060
4	1CT:1CT	T,C	C,T	40-PIN SOIC	1.125 x .630 x .280 (28.58 x 16.00 x 7.11)	553-1217-ND‡	8.08	5.91	4.90	H1062
4	2CT:1CT	T,C	C,T	40-PIN SOIC	1.125 x .640 x .230 (28.58 x 16.26 x 5.84)	553-1218-ND‡	8.48	6.21	5.15	H1069
4	1CT:1CT	C,T,C	C,T,C	40-PIN SOIC	1.125 x .630 x .230 (28.58 x 16.00 x 5.84)	553-1219-ND‡	9.14	6.69	5.54	H1140
4	1CT:1CT	T,C	T,C	40-PIN SOIC	1.125 x .630 x .230 (28.58 x 16.00 x 5.84)	553-1220-ND‡	8.08	5.91	4.90	H1164
4	1CT:1CT	T,C	T,C	40-PIN SOIC	1.125 x .630 x .235 (28.58 x 16.00 x 5.97)	553-1221-ND‡	9.15	6.27	4.99	H1259
4	1CT:1CT	T,C	T,C	40-PIN SOIC	1.125 x .630 x .230 (28.58 x 16.00 x 5.84)	553-1222-ND§‡	8.61	6.30	5.22	HX1234
10BASE-T Filter Modules										
1	1CT:1CT	F,T,C	F,T,C	16-PIN SMT	.920 x .500 x .230 (23.37 x 12.7 x 5.84)	553-1223-ND	6.93	4.75	3.78	PE-68026
1	1CT:1CT	F,T,C	F,T	16-PIN THT	1.005 x .405 x .338 (25.53 x 10.29 x 8.59)	553-1224-ND	4.20	2.88	2.29	FL1012
1	1CT:1CT	F,T,C	F,TC	10-PIN SIL	1.00 x .210 x .450 (25.4 x 5.33 x 11.43)	553-1225-ND	4.68	3.21	2.55	PE-68017S
10BASE-T Transformer/Choke Modules										
1	1CT:1CT:2CT	T,C	T,C	16-PIN SOIC	.457 x .375 x .233 (11.61 x 9.53 x 5.92)	553-1226-ND	3.72	2.42	1.85	ST4202T
4	1CT:2CT	T,C	T	40-PIN SOIC	1.125 x .640 x .230 (28.58 x 16.26 x 5.84)	553-1227-ND	7.80	5.34	4.25	PE-68062L
VoIP(Voice over Internet Protocol) Transformer Modules										
2	1CT:1CT	T,C,S	C,T	24-PIN SOIC	.510 x .740 x .280 (12.95 x 18.8 x 7.11)	553-1228-ND	6.00	4.11	3.27	H2005A
2	1CT:1CT	T,C,S	T	24-PIN SOIC	.537 x .590 x .245 (13.64 x 14.99 x 6.22)	553-1229-ND	5.31	3.64	2.90	H2008
2	1CT:1CT	T,C,S	T,C,S	24-PIN SOIC	.518 x .732 x .241 (13.16 x 18.59 x 6.12)	553-1230-ND	7.20	4.93	3.92	H2009
AUI Ethernet Transformer										
—	1:1	—	—	16-PIN SOIC	.500 x .370 x .200 (12.7 x 9.4 x 5.08)	553-1232-ND	2.45	1.52	1.11	PE-65728

Number of Lines	Inductance (µH) Minimum	DC Resistance (Ω) Maximum	Package Style**	Package L x W x H*** Inches (mm) - Maximum	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Pulse Part No.
LAN Common Mode Chokes									
4	68	0.20	8-PIN SOIC	.230 x .360 x .215 (5.84 x 9.14 x 5.46)	553-1233-ND	2.29	1.42	1.04	23Z104SM
4	100	0.60	8-PIN SMT	.475 x .600 x .340 (12.06 x 15.24 x 8.64)	553-1234-ND	3.41	2.22	1.70	PE-67540
4	140	0.60	8-PIN DIP	.500 x .500 x .375 (12.7 x 12.7 x 9.52)	553-1235-ND	2.89	1.88	1.44	PE-67539

* F = Filter, T = Transformer, C = Chokes, S = Shunt Inductor

** SOIC = 50 mil pitch leads, SMT = 100 mil pitch leads (surface mount), THT = Through Hole, DIP = Dual In-Package (Through Hole), SIL = Single In-Line (Through Hole)

*** L x W x H = Width is measured on surface mount parts pin-tip to pin-tip (height includes wash area)

§ Suitable for industrial temperature applications, -40°C ~ 85°C

◆ .039" (0.99mm) pitch leads

‡ Each has a different pinout for optimization in layout with various IC Manufacturers

NEWAVA TECHNOLOGY

Transformers and Inductors

Fig. 1

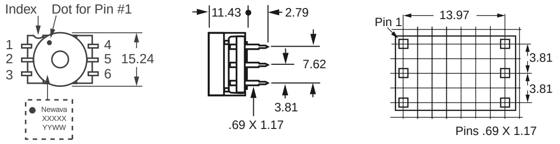

Fig. 2

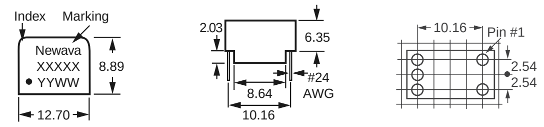

Fig. 3

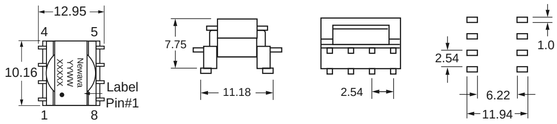

Fig. 4

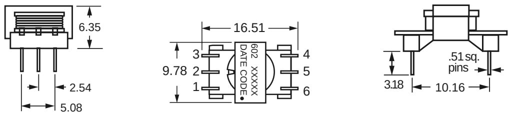

Fig. 5

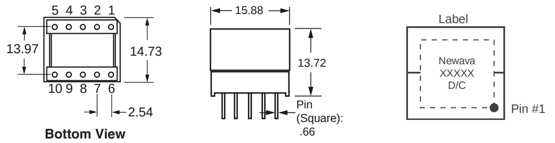

Fig. 6

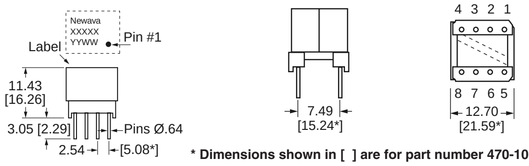

* Dimensions shown in [ ] are for part number 470-1011-ND

Fig. 7

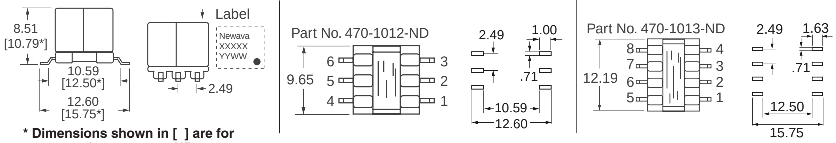

* Dimensions shown in [ ] are for part number 470-1013-ND

Fig. 8

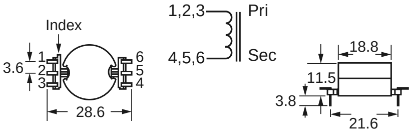

Fig. 9

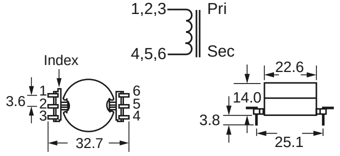

Fig. 10

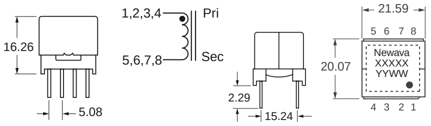

Fig. 11

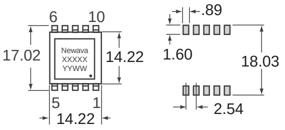

Mechanicals:
12.70mm max. Height
14.22mm max. Width of Body
14.22mm max. Length of Body
Coplanarity of ±0.10mm across all Leads
All pins may not be used.

Fig.	Description (applications and notes)	Inductance	Schematic Information						Digi-Key Part No.	Price Each					Newava Part No.
			Primary			Secondary									
			Start	CTap	Finish	Start	CTap	Finish		1	10	50	100	500	
1	Transformer for Maxim 250/251; 5V to 5V @ 50ma	2.5mH	1	—	3	4	—	6	470-1001-ND	10.36	7.13	4.15	3.97	3.50	S22601
2	Transformer for Maxim 250/251; For RS232 Isolation	2mH	1	2	3	4	5	6	470-1002-ND	9.20	6.33	3.68	3.52	3.11	S22100
	Isolation for Digital Audio; Crystal CS8401/2/11/12	225µH	1	—	2	3	—	4	470-1003-ND	9.20	6.33	3.68	3.52	3.11	S22083
3	Digital Audio, SMD;Transformer	225µH	1	—	4	5	—	8	470-1000-ND	8.96	6.16	3.48	3.03	2.69	S37211
4	Isolation for Digital Audio: Crystal CS8401/2/11/12	225µH	1	—	3	4	—	6	470-1004-ND	8.36	5.75	3.35	3.20	2.83	S22160
	Transformer for Maxim 250/251; RS232 Isolation	2mH	3	2	1	6	5	4	470-1005-ND	8.36	5.75	3.35	3.20	2.83	S22230
	Isolation for Digital Audio, Shielded, Crystal CS8401/2/11/12	225µH	1	—	3	4	—	6	470-1006-ND	8.60	5.92	3.44	3.29	2.91	S22133
	Digital Audio, Shielded, 70-110 ohm, Crystal 8401, 8402, 8411 and 8412	225µH	1	—	3	4	—	6	470-1007-ND	8.60	5.92	3.44	3.29	2.91	S22523
5	Inductor, 3.6A	33µH	1-5	—	6-10	—	—	—	470-1009-ND	9.20	6.33	3.68	3.52	3.11	S34568
6	Inductor DCR 0.15 ohms, 0.63A	150µH	1-4	—	5-8	—	—	—	470-1010-ND	8.96	6.16	3.59	3.43	3.03	S34547
	Inductor DCR 0.04 ohms, 3.7A	47µH	1-4	—	5-8	—	—	—	470-1011-ND	9.44	6.49	3.78	3.62	3.19	S34567
7	Inductor DCR 0.300 ohms SMD, 0.45A	150µH	1	—	6	—	—	—	470-1012-ND	9.20	6.33	3.68	3.52	3.11	S34582
	Inductor DCR 0.150 ohms SMD, 0.63A	150µH	1-4	—	5-8	—	—	—	470-1013-ND	8.96	6.16	3.59	3.43	3.03	S34591
8	1A Inductor, Buck for LM257x	330µH	1	—	3	4	—	6	470-1018-ND	11.88	8.17	4.76	4.55	4.01	S34042
9	3A Inductor, Buck for LM257x	150µH	1	—	3	4	—	6	470-1008-ND	12.12	8.34	4.85	4.64	4.10	S34045
	0.9A Inductor, Buck for LM257x	1000µH	1	—	3	4	—	6	470-1014-ND	13.00	8.94	5.20	4.98	4.39	S34050
10	3.25A Inductor, for LM259x	68µH	1	—	4	5	—	8	470-1017-ND	9.44	6.49	3.78	3.62	3.19	S34566
11	2.25A Inductor, SMD for LM259x	47µH	6	1	2	3	4	5	470-1016-ND	9.20	6.33	3.68	3.52	3.11	S34603
	1.5A Inductor, SMD for LM259x	100µH	1-5	—	6-10	—	—	—	470-1019-ND	9.20	6.33	3.68	3.52	3.11	S34601

EPCOS

Helically Wound Power Inductors

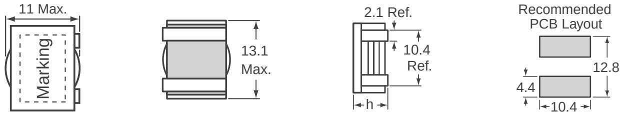

Features: • Very High Rated Current • Extremely Low DC Resistance • Very Low Profile and Smallest Possible Footprint • Suitable for pick-and-place processes

Construction: • Ferrite Core • Magnetically Shielded • Winding: Enamel Copper Flat Wire • Self-Leaded Construction Under Body Termination

General Technical Data: • Inductance Tolerance: 10% • Operating Temperature: -40°C ~ 130°C

Inductance (µH)	I_{sat} (A)	R_{max} (mΩ)	Height (h) (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Epcos Part No.
0.50	30	1.1	4.95	495-1866-1-ND	2.52	2.29	2.06	495-1866-2-ND	750	931.88	B82559A0501A013
0.95	25	1.4	5.95	495-1867-1-ND	2.59	2.36	2.12	495-1867-2-ND	550	702.63	B82559A0951A013
1.1	20	2.2	4.95	495-1860-1-ND	2.52	2.29	2.06	495-1860-2-ND	750	931.88	B82559A0112A013
1.4	22	1.8	5.95	495-1861-1-ND	2.59	2.36	2.12	495-1861-2-ND	550	702.63	B82559A0142A013
2.2	15	4.2	4.95	495-1862-1-ND	2.52	2.29	2.06	495-1862-2-ND	750	931.88	B82559A0222A013
2.4	16.5	3.2	5.95	495-1863-1-ND	2.59	2.36	2.12	495-1863-2-ND	550	702.63	B82559A0242A013
3.0	13	5.1	4.95	495-1864-1-ND	2.52	2.29	2.06	495-1864-2-ND	750	931.88	B82559A0302A013
3.9	12	6.0	5.95	495-1865-1-ND	2.59	2.36	2.12	495-1865-2-ND	550	702.63	B82559A0392A013
Power Inductor Kit (2 of each part number listed above)				495-1686-ND	37.50	—	—	—	—	—	B82559X1

API Delevan

Coils and Inductors

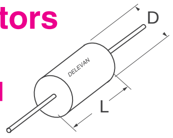

Series 1025 Molded Unshielded RF Coils

Operating Temperature Range: -55°C ~ 125°C (Phenolic Core), -55°C ~ 105°C (Iron and Ferrite Core) **Maximum Power Dissipation @ 90°C:** .21W (Phenolic Core), .09W (Iron Core), .073W (Ferrite Core)

Dimensions		Lead Size AWG #24 (TCW)	Lead Length
L	D		
.250" (6.35mm)	.095" (2.41mm)	.020" (.51mm)	1.5" (38.1mm)

Induct. (µH)	Q Min.	Test Freq. (MHz)	Max. Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
Series 1025 Phenolic Core (LT4K)								
.10	40	25.0	1380	DN2594-ND	.63	.54	.36	1025-94K
.12	40	25.0	1300	DN2596-ND	.63	.54	.36	1025-96K
.33	30	25.0	830	DN2508-ND	.63	.54	.36	1025-08K
.39	30	25.0	710	DN2510-ND	.63	.54	.36	1025-10K
.47	30	25.0	660	DN2512-ND	.63	.54	.36	1025-12K
.56	30	25.0	550	DN2514-ND	.63	.54	.36	1025-14K
.68	28	25.0	500	DN2516-ND	.63	.54	.36	1025-16K
.82	28	25.0	420	DN2518-ND	.63	.54	.36	1025-18K
1.0	25	25.0	390	DN2520-ND	.63	.54	.36	1025-20K
Series 1025 Iron Core (LT10K)								
1.2	25	7.9	620	DN2522-ND	.77	.66	.44	1025-22K
1.5	28	7.9	560	DN2524-ND	.77	.66	.44	1025-24K
2.2	30	7.9	415	DN2528-ND	.77	.66	.44	1025-28K
2.7	37	7.9	355	DN2530-ND	.77	.66	.44	1025-30K
3.3	45	7.9	285	DN2532-ND	.77	.66	.44	1025-32K
3.9	45	7.9	263	DN2534-ND	.77	.66	.44	1025-34K
4.7	45	7.9	239	DN2536-ND	.77	.66	.44	1025-36K
5.6	50	7.9	195	DN2538-ND	.77	.66	.44	1025-38K
6.8	50	7.9	185	DN2540-ND	.77	.66	.44	1025-40K
8.2	55	7.9	160	DN2542-ND	.77	.66	.44	1025-42K
10.0	55	7.9	144	DN2544-ND	.77	.66	.44	1025-44K
12.0	45	2.5	160	DN2546-ND	.77	.66	.44	1025-46K
15.0	45	2.5	157	DN2548-ND	.77	.66	.44	1025-48K
18.0	50	2.5	149	DN2550-ND	.77	.66	.44	1025-50K
22.0	50	2.5	144	DN2552-ND	.77	.66	.44	1025-52K
27.0	50	2.5	140	DN2554-ND	.77	.66	.44	1025-54K
Series 1025 Ferrite (LT10K)								
33.0	45	2.5	130	DN2556-ND	.84	.72	.48	1025-56K
39.0	45	2.5	125	DN2558-ND	.84	.72	.48	1025-58K
47.0	45	2.5	110	DN2560-ND	.84	.72	.48	1025-60K
68.0	50	2.5	92	DN2564-ND	.84	.72	.48	1025-64K
82.0	50	2.5	88	DN2566-ND	.98	.84	.56	1025-66K
100.0	50	2.5	84	DN2568-ND	.98	.84	.56	1025-68K
120.0	30	.79	66	DN2570-ND	.98	.84	.56	1025-70K
150.0	30	.79	61	DN2572-ND	.98	.84	.56	1025-72K
180.0	30	.79	57	DN2574-ND	.98	.84	.56	1025-74K
220.0	30	.79	52	DN2576-ND	.98	.84	.56	1025-76K
270.0	30	.79	47	DN2578-ND	1.05	.90	.60	1025-78K
330.0	30	.79	45	DN2580-ND	1.05	.90	.60	1025-80K
470.0	30	.79	36	DN2584-ND	1.05	.90	.60	1025-84K
560.0	30	.79	35	DN2586-ND	1.05	.90	.60	1025-86K
680.0	30	.79	30	DN2588-ND	1.05	.90	.60	1025-88K
820.0	30	.79	29	DN2590-ND	1.16	.99	.66	1025-90K
1000.0	30	.79	28	DN2592-ND	1.16	.99	.66	1025-92K

Series 1641 Molded Shielded RF Coils

Operating Temperature Range: -55°C ~ 105°C, **Maximum Power Dissipation @ 90°C:** .11W

Dimensions		Lead Size AWG #22 (TCW)	Lead Length
L	D		
.410" (10.41mm)	.162" (4.11mm)	.025" (.64mm)	1.44" (36.58mm)

Induct. (µH)	Q Min.	Test Freq. (MHz)	Max. Current Rating (mA)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
Series 1641 Phenolic Core Iron Sleeve (LT10K)								
.10	50	25.0	1830	DN41101-ND	1.16	.99	.66	1641-101K
.12	51	25.0	1570	DN41121-ND	1.16	.99	.66	1641-121K
.15	51	25.0	1500	DN41151-ND	1.16	.99	.66	1641-151K
.18	50	25.0	1330	DN41181-ND	1.16	.99	.66	1641-181K
.22	49	25.0	1120	DN41221-ND	1.16	.99	.66	1641-221K
.39	44	25.0	680	DN41391-ND	1.16	.99	.66	1641-391K
.47	44	25.0	580	DN41471-ND	1.16	.99	.66	1641-471K
.56	43	25.0	505	DN41561-ND	1.16	.99	.66	1641-561K
.68	42	25.0	430	DN41681-ND	1.16	.99	.66	1641-681K
Series 1641 Iron Core Iron Sleeve (LT10K)								
1.0	44	25.0	1090	DN41102-ND	1.33	1.14	.76	1641-102K
1.2	44	7.9	900	DN41122-ND	1.33	1.14	.76	1641-122K
1.5	44	7.9	835	DN41152-ND	1.33	1.14	.76	1641-152K
1.8	44	7.9	775	DN41182-ND	1.33	1.14	.76	1641-182K
2.2	44	7.9	665	DN41222-ND	1.33	1.14	.76	1641-222K
2.7	44	7.9	545	DN41272-ND	1.33	1.14	.76	1641-272K
3.3	44	7.9	490	DN41332-ND	1.33	1.14	.76	1641-332K
3.9	44	7.9	455	DN41392-ND	1.33	1.14	.76	1641-392K
4.7	44	7.9	390	DN41472-ND	1.33	1.14	.76	1641-472K
5.6	44	7.9	340	DN41562-ND	1.33	1.14	.76	1641-562K
6.8	50	7.9	285	DN41682-ND	1.33	1.14	.76	1641-682K
8.2	50	7.9	250	DN41822-ND	1.33	1.14	.76	1641-822K
10.0	50	7.9	228	DN41103-ND	1.33	1.14	.76	1641-103K
12.0	55	2.5	205	DN41123-ND	1.33	1.14	.76	1641-123K
Series 1641 Ferrite Core Ferrite Sleeve (LT10K)								
15.0	45	2.5	325	DN41153-ND	1.33	1.14	.76	1641-153K
18.0	45	2.5	305	DN41183-ND	1.33	1.14	.76	1641-183K
22.0	45	2.5	295	DN41223-ND	1.33	1.14	.76	1641-223K
27.0	45	2.5	265	DN41273-ND	1.33	1.14	.76	1641-273K
33.0	45	2.5	248	DN41333-ND	1.33	1.14	.76	1641-333K
39.0	50	2.5	209	DN41393-ND	1.33	1.14	.76	1641-393K
47.0	50	2.5	200	DN41473-ND	1.33	1.14	.76	1641-473K
56.0	50	2.5	194	DN41563-ND	1.33	1.14	.76	1641-563K
68.0	50	2.5	176	DN41683-ND	1.33	1.14	.76	1641-683K
82.0	50	2.5	186	DN41823-ND	1.33	1.14	.76	1641-823K
100.0	50	2.5	164	DN41104-ND	1.33	1.14	.76	1641-104K
120.0	55	.79	153	DN41124-ND	1.33	1.14	.76	1641-124K
150.0	55	.79	143	DN41154-ND	1.33	1.14	.76	1641-154K
180.0	55	.79	138	DN41184-ND	1.33	1.14	.76	1641-184K
220.0	55	.79	130	DN41224-ND	1.33	1.14	.76	1641-224K
270.0	55	.79	120	DN41274-ND	1.33	1.14	.76	1641-274K
330.0	55	.79	115	DN41334-ND	1.33	1.14	.76	1641-334K
390.0	60	.79	107	DN41394-ND	1.33	1.14	.76	1641-394K
470.0	60	.79	94	DN41474-ND	1.40	1.20	.80	1641-474K
560.0	60	.79	90	DN41564-ND	1.40	1.20	.80	1641-564K
680.0	60	.79	84	DN41684-ND	1.40	1.20	.80	1641-684K
820.0	60	.79	80	DN41824-ND	1.40	1.20	.80	1641-824K
1000.0	60	.79	70	DN41105-ND	1.40	1.20	.80	1641-105K

Series 2474 Power Inductors

Mechanical Configuration: Units are axial leaded for printed circuit mounting, encapsulated in an epoxy molded case. High resistivity ferrite core allows for high inductance with low DC resistance. **Operating Temperature Range:** -55°C ~ 125°C **Current Rating:** 40°C Rise over 85°C Ambient **Maximum Power Dissipation @ 85°C:** .50W **Inductance:** Measured at 1V with no DC current

Dimensions		Lead Size AWG #20 (TCW)	Lead Length
L	D		
.740" (18.80mm)	.240" (6.10mm)	.032" (.81mm)	1.44" (36.58mm)

Induct. (µH)	Max. DC Resist. (Ohms)	Max. Current Rating (Amps)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
Series 2474 Ferrite Core							
1.0	0.009	6.27	DN7401-ND	2.33	2.00	1.34	2474-01L
1.5	0.011	5.67	DN7403-ND	2.33	2.00	1.34	2474-03L
1.8	0.012	5.43	DN7404-ND	2.33	2.00	1.34	2474-04L
2.2	0.013	5.22	DN7405-ND	2.33	2.00	1.34	2474-05L
2.7	0.014	5.03	DN7406-ND	2.33	2.00	1.34	2474-06L
3.3	0.016	4.70	DN7407-ND	2.33	2.00	1.34	2474-07L
3.9	0.017	4.56	DN7408-ND	2.33	2.00	1.34	2474-08L
4.7	0.022	4.01	DN7409-ND	2.33	2.00	1.34	2474-09L
5.6	0.024	3.84	DN7410-ND	2.33	2.00	1.34	2474-10L
6.8	0.026	3.69	DN7411-ND	2.33	2.00	1.34	2474-11L
8.2	0.028	3.55	DN7412-ND	2.33	2.00	1.34	2474-12L
10.0	0.033	3.27	DN7413-ND	2.76	2.37	1.58	2474-13L
12.0	0.037	3.09	DN7414-ND	2.76	2.37	1.58	2474-14L
15.0	0.040	2.97	DN7415-ND	2.76	2.37	1.58	2474-15L
18.0	0.044	2.84	DN7416-ND	2.76	2.37	1.58	2474-16L
22.0	0.050	2.66	DN7417-ND	2.76	2.37	1.58	2474-17L
27.0	0.070	2.25	DN7418-ND	2.76	2.37	1.58	2474-18L
33.0	0.075	2.17	DN7419-ND	2.76	2.37	1.58	2474-19L
39.0	0.084	2.05	DN7420-ND	2.76	2.37	1.58	2474-20L
47.0	0.104	1.84	DN7421-ND	2.76	2.37	1.58	2474-21L
56.0	0.130	1.65	DN7422-ND	2.76	2.37	1.58	2474-22L
68.0	0.145	1.56	DN7423-ND	2.76	2.37	1.58	2474-23L
82.0	0.152	1.53	DN7424-ND	2.76	2.37	1.58	2474-24L
100.0	0.208	1.30	DN7425-ND	2.94	2.52	1.68	2474-25L
120.0	0.283	1.12	DN7426-ND	2.94	2.52	1.68	2474-26L
150.0	0.330	1.04	DN7427-ND	2.94	2.52	1.68	2474-27L
180.0	0.362	0.99	DN7428-ND	2.94	2.52	1.68	2474-28L
220.0	0.505	0.84	DN7429-ND	2.94	2.52	1.68	2474-29L
270.0	0.557	0.80	DN7430-ND	2.94	2.52	1.68	2474-30L
330.0	0.650	0.74	DN7431-ND	2.94	2.52	1.68	2474-31L
390.0	0.770	0.68	DN7432-ND	2.94	2.52	1.68	2474-32L
470.0	1.03	0.59	DN7433-ND	2.94	2.52	1.68	2474-33L
560.0	1.14	0.56	DN7434-ND	2.94	2.52	1.68	2474-34L
680.0	1.50	0.49	DN7435-ND	2.94	2.52	1.68	2474-35L
820.0	1.98	0.42	DN7436-ND	2.94	2.52	1.68	2474-36L
1000.0	2.30	0.39	DN7437-ND	3.12	2.68	1.79	2474-37L
1200.0	2.55	0.37	DN7438-ND	3.12	2.68	1.79	2474-38L
1500.0	3.00	0.34	DN7439-ND	3.12	2.68	1.79	2474-39L
1800.0	4.00	0.30	DN7440-ND	3.12	2.68	1.79	2474-40L
2200.0	4.40	0.28	DN7441-ND	3.12	2.68	1.79	2474-41L
2700.0	5.80	0.25	DN7442-ND	3.12	2.68	1.79	2474-42L
3300.0	6.56	0.23	DN7443-ND	3.12	2.68	1.79	2474-43L
4700.0	10.1	0.19	DN7445-ND	3.12	2.68	1.79	2474-45L
5600.0	11.2	0.18	DN7446-ND	3.12	2.68	1.79	2474-46L
6800.0	15.0	0.15	DN7447-ND	3.12	2.68	1.79	2474-47L
8200.0	20.8	0.13	DN7448-ND	3.12	2.68	1.79	2474-48L
10000.0	23.4	0.12	DN7449-ND	3.34	2.87	1.91	2474-49L
12000.0	26.0	0.12	DN7450-ND	3.34	2.87	1.91	2474-50L
15000.0	36.0	0.10	DN7451-ND	3.34	2.87	1.91	2474-51L
18000.0	40.0	0.09	DN7452-ND	3.34	2.87	1.91	2474-52L

Series 4590 High Current Filter Inductors

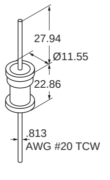

Mechanical Configuration: Ferrite bobbin protected with a flame retardant polyolefin sleeve. High saturation bobbin allows for high inductance with low DCR. High resistivity core offers very high parallel resistance, resulting in maximum coil performance. **Operating Temp.:** -55° ~ 125°C (-55° ~ 85°C @ full rated current) **Maximum Power Dissipation @ 85°C:** .70W **Dielectric Withstanding Voltage:** 2500VRMS

Nom. Induct. ±10% (µH)	Max. DC Resist. (Ohms)	Max. Current Rating (Amps)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
3.9	0.007	9.75	DN4495-ND	1.82	1.57	1.05	4590-392K
4.7	0.008	9.11	DN4496-ND	1.82	1.57	1.05	4590-472K
5.6	0.011	7.77	DN4497-ND	1.82	1.57	1.05	4590-562K
6.8	0.011	7.60	DN4498-ND	1.82	1.57	1.05	4590-682K
8.2	0.013	7.15	DN4499-ND	1.82	1.57	1.05	4590-822K
10.0	0.016	6.44	DN4500-ND	2.08	1.79	1.19	4590-103K
12.0	0.018	6.07	DN4501-ND	2.08	1.79	1.19	4590-123K
15.0	0.020	5.76	DN4502-ND	2.08	1.79	1.19	4590-153K
18.0	0.020	5.49	DN4503-ND	2.08	1.79	1.19	4590-183K
22.0	0.024	5.26	DN4504-ND	2.08	1.79	1.19	4590-223K
27.0	0.025	5.15	DN4505-ND	2.08	1.79	1.19	4590-273K
33.0	0.028	4.87	DN4506-ND	2.08	1.79	1.19	4590-333K
39.0	0.028	4.87	DN4507-ND	2.08	1.79	1.19	4590-393K
47.0	0.034	4.45	DN4508-ND	2.08	1.79	1.19	4590-473K
56.0	0.043	3.93	DN4509-ND	2.08	1.79	1.19	4590-563K
68.0	0.059	3.35	DN4510-ND	2.08	1.79	1.19	4590-683K
82.0	0.066	3.17	DN4511-ND	2.08	1.79	1.19	4590-823K
100	0.084	2.81	DN4512-ND	2.08	1.79	1.19	4590-104K
120	0.113	2.43	DN4513-ND	2.08	1.79	1.19	4590-124K
150	0.129	2.27	DN4514-ND	2.08	1.79	1.19	4590-154K
180	0.150	2.10	DN4515-ND	2.08	1.79	1.19	4590-184K
220	0.162	2.02	DN4516-ND	2.08	1.79	1.19	4590-224K
270	0.226	1.71	DN4517-ND	2.08	1.79	1.19	4590-274K
330	0.257	1.61	DN4518-ND	2.08	1.79	1.19	4590-334K
390	0.288	1.52	DN4519-ND	2.08	1.79	1.19	4590-394K
470	0.393	1.30	DN4520-ND	2.08	1.79	1.19	4590-474K
560	0.504	1.15	DN4521-ND	2.08	1.79	1.19	4590-564K
680	0.570	1.08	DN4522-ND	2.08	1.79	1.19	4590-684K
820	0.643	1.01	DN4523-ND	2.08	1.79	1.19	4590-824K
1000	0.844	0.89	DN4524-ND	2.08	1.79	1.19	4590-105K
1200	0.977	0.82	DN4525-ND	1.97	1.70	1.13	4590-125K
1500	1.18	0.75	DN4526-ND	1.97	1.70	1.13	4590-155K
1800	1.50	0.66	DN4527-ND	1.97	1.70	1.13	4590-185K
2200	1.76	0.61	DN4528-ND	1.97	1.70	1.13	4590-225K
2700	2.13	0.56	DN4529-ND	1.97	1.70	1.13	4590-275K
3300	2.53	0.51	DN4530-ND	1.97	1.70	1.13	4590-335K
3900	2.84	0.48	DN4531-ND	1.97	1.70	1.13	4590-395K
4700	3.79	0.41	DN4532-ND	1.82	1.57	1.05	4590-475K
5600	4.24	0.39	DN4533-ND	1.82	1.57	1.05	4590-565K
6800	5.75	0.34	DN4534-ND	1.82	1.57	1.05	4590-685K
8200	6.44	0.32	DN4535-ND	1.82	1.57	1.05	4590-825K
10000	7.30	0.30	DN4536-ND	1.82	1.57	1.05	4590-106K
12000	9.34	0.26	DN4537-ND	1.82	1.57	1.05	4590-126K
15000	10.7	0.25	DN4538-ND	1.82	1.57	1.05	4590-156K
18000	14.8	0.21	DN4539-ND	1.82	1.57	1.05	4590-186K
22000	18.0	0.19	DN4540-ND	1.82	1.57	1.05	4590-226K
27000	22.7	0.17	DN4541-ND	1.82	1.57	1.05	4590-276K
33000	25.7	0.16	DN4542-ND	1.99	1.71	1.14	4590-336K
39000	29.7	0.15	DN4543-ND	1.99	1.71	1.14	4590-396K
47000	33.7	0.14	DN4544-ND	1.99	1.71	1.14	4590-476K
56000	38.0	0.13	DN4545-ND	1.99	1.71	1.14	4590-566K
68000	52.8	0.11	DN4546-ND	1.99	1.71	1.14	4590-686K
100000	76.0	0.09	DN4548-ND	1.99	1.71	1.14	4590-107K

API Delevan

Series 1008 Unshielded Surface Mount Inductors

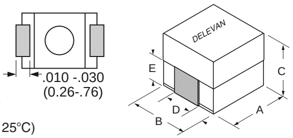

Operating Temperature Range: -67°F ~ 257°F (-55°C ~ 125°C)
Maximum Power Dissipation @ 90°C: .169W (Phenolic), .208W (Ferrite)

Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E (Ref. only)
.100 (2.54)	.080 (2.03)	.080 (2.03)	.055 (1.40)	.046 (1.17)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series 1008 Phenolic Core — K Tolerance, ±10%										
.010	50.0	40	1562	DN08100CT-ND	1.61	1.38	.92	DN08100TR-ND	368.00	1008-100K
.012	50.0	40	1450	DN08120CT-ND	1.61	1.38	.92	DN08120TR-ND	368.00	1008-120K
.015	50.0	40	1381	DN08150CT-ND	1.61	1.38	.92	DN08150TR-ND	368.00	1008-150K
.018	50.0	40	1320	DN08180CT-ND	1.61	1.38	.92	DN08180TR-ND	368.00	1008-180K
.022	50.0	35	1235	DN08220CT-ND	1.61	1.38	.92	DN08220TR-ND	368.00	1008-220K
.027	50.0	35	1164	DN08270CT-ND	1.61	1.38	.92	DN08270TR-ND	368.00	1008-270K
.033	50.0	30	1105	DN08330CT-ND	1.61	1.38	.92	DN08330TR-ND	368.00	1008-330K
.039	50.0	30	1053	DN08390CT-ND	1.61	1.38	.92	DN08390TR-ND	368.00	1008-390K
.047	50.0	30	1108	DN08470CT-ND	1.61	1.38	.92	DN08470TR-ND	368.00	1008-470K
.056	50.0	25	847	DN08560CT-ND	1.61	1.38	.92	DN08560TR-ND	368.00	1008-560K
.068	50.0	25	823	DN08680CT-ND	1.61	1.38	.92	DN08680TR-ND	368.00	1008-680K
.082	50.0	25	801	DN08820CT-ND	1.61	1.38	.92	DN08820TR-ND	368.00	1008-820K
.100	25.0	15	728	DN08101CT-ND	1.61	1.38	.92	DN08101TR-ND	368.00	1008-101K
Series 1008 Ferrite Core — K Tolerance, ±10%										
.12	25.0	40	1225	DN08121CT-ND	1.61	1.38	.92	DN08121TR-ND	368.00	1008-121K
.15	25.0	40	1168	DN08151CT-ND	1.61	1.38	.92	DN08151TR-ND	368.00	1008-151K
.18	25.0	40	1119	DN08181CT-ND	1.61	1.38	.92	DN08181TR-ND	368.00	1008-181K
.22	25.0	40	1055	DN08221CT-ND	1.61	1.38	.92	DN08221TR-ND	368.00	1008-221K
.27	25.0	40	1000	DN08271CT-ND	1.61	1.38	.92	DN08271TR-ND	368.00	1008-271K
.33	25.0	40	954	DN08331CT-ND	1.61	1.38	.92	DN08331TR-ND	368.00	1008-331K
.47	25.0	40	846	DN08471CT-ND	1.61	1.38	.92	DN08471TR-ND	368.00	1008-471K
.56	25.0	40	808	DN08561CT-ND	1.61	1.38	.92	DN08561TR-ND	368.00	1008-561K
.68	25.0	40	760	DN08681CT-ND	1.61	1.38	.92	DN08681TR-ND	368.00	1008-681K
.82	25.0	40	708	DN08821CT-ND	1.61	1.38	.92	DN08821TR-ND	368.00	1008-821K
Series 1008 Ferrite Core — J Tolerance, ±5%										
1.0	7.9	30	685	DN08102JCT-ND	1.61	1.38	.92	DN08102JTR-ND	368.00	1008-102J
1.2	7.9	30	591	DN08122JCT-ND	1.93	1.65	1.10	DN08122JTR-ND	440.00	1008-122J
1.5	7.9	30	548	DN08152JCT-ND	1.93	1.65	1.10	DN08152JTR-ND	440.00	1008-152J
2.2	7.9	30	433	DN08222JCT-ND	1.93	1.65	1.10	DN08222JTR-ND	440.00	1008-222J
3.3	7.9	30	398	DN08332JCT-ND	1.93	1.65	1.10	DN08332JTR-ND	440.00	1008-332J
3.9	7.9	30	354	DN08392JCT-ND	1.93	1.65	1.10	DN08392JTR-ND	440.00	1008-392J
4.7	7.9	30	334	DN08472JCT-ND	1.93	1.65	1.10	DN08472JTR-ND	440.00	1008-472J
5.6	7.9	30	312	DN08562JCT-ND	1.93	1.65	1.10	DN08562JTR-ND	440.00	1008-562J
6.8	7.9	30	274	DN08682JCT-ND	1.93	1.65	1.10	DN08682JTR-ND	440.00	1008-682J
10.0	7.9	30	245	DN08103JCT-ND	1.93	1.65	1.10	DN08103JTR-ND	440.00	1008-103J
15.0	2.5	30	194	DN08153JCT-ND	1.93	1.65	1.10	DN08153JTR-ND	440.00	1008-153J
18.0	2.5	30	173	DN08183JCT-ND	1.93	1.65	1.10	—	—	1008-183J
22.0	2.5	30	158	DN08223JCT-ND	1.93	1.65	1.10	DN08223JTR-ND	440.00	1008-223J
27.0	2.5	30	146	DN08273JCT-ND	1.93	1.65	1.10	DN08273JTR-ND	440.00	1008-273J
33.0	2.5	30	135	DN08333JCT-ND	1.93	1.65	1.10	DN08333JTR-ND	440.00	1008-333J
39.0	2.5	30	125	DN08393JCT-ND	1.93	1.65	1.10	DN08393JTR-ND	440.00	1008-393J
47.0	2.5	30	120	DN08473JCT-ND	1.93	1.65	1.10	DN08473JTR-ND	440.00	1008-473J

1008KIT-ND (API Delevan Part No. 1008KIT)
Series 1008 Inductor Kit. 5 each of 54 values (0.0018µH ~ 47.0µH), 270 total pieces................ **$95.95**

Series S1008 Shielded Surface Mount Inductors

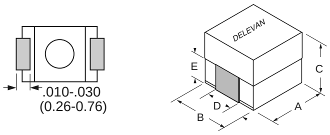

Operating Temperature Range: -55°C ~ 125°C
Maximum Power Dissipation @ 90°C: .157W

Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E
.100 (2.54)	.080 (2.03)	.080 (2.03)	.055 (1.40)	.046 (1.17)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series S1008 Ferrite Core, ±10%										
.10	25	40	1120	DN1001CT-ND	1.72	1.47	.98	DN1001TR-ND	392.00	S1008-101K
.15	25	40	1015	DN1003CT-ND	1.72	1.47	.98	DN1003TR-ND	392.00	S1008-151K
.18	25	40	970	DN1004CT-ND	1.72	1.47	.98	—	—	S1008-181K
.22	25	40	930	DN1005CT-ND	1.72	1.47	.98	—	—	S1008-221K
.27	25	40	900	DN1006CT-ND	1.72	1.47	.98	DN1006TR-ND	392.00	S1008-271K
.33	25	40	865	DN1007CT-ND	1.72	1.47	.98	DN1007TR-ND	392.00	S1008-331K
.39	25	40	840	DN1008CT-ND	1.72	1.47	.98	DN1008TR-ND	392.00	S1008-391K
.47	25	40	815	DN1009CT-ND	1.72	1.47	.98	DN1009TR-ND	392.00	S1008-471K
.56	25	40	790	DN1010CT-ND	1.72	1.47	.98	DN1010TR-ND	392.00	S1008-561K
.62	25	40	770	DN1011CT-ND	1.72	1.47	.98	DN1011TR-ND	1152.00	S1008-621K
.68	25	40	750	DN1012CT-ND	1.72	1.47	.98	DN1012TR-ND	392.00	S1008-681K
.75	25	40	735	DN1013CT-ND	1.72	1.47	.98	DN1013TR-ND	392.00	S1008-751K
.82	25	40	715	DN1014CT-ND	1.72	1.47	.98	DN1014TR-ND	392.00	S1008-821K
.91	25	40	685	DN1015CT-ND	1.72	1.47	.98	DN1015TR-ND	392.00	S1008-911K
1.0	7.9	30	670	DN1016CT-ND	1.72	1.47	.98	DN1016TR-ND	392.00	S1008-102K
1.2	7.9	30	625	DN1017CT-ND	1.72	1.47	.98	DN1017TR-ND	392.00	S1008-122K
1.5	7.9	30	545	DN1018CT-ND	1.72	1.47	.98	DN1018TR-ND	392.00	S1008-152K
2.2	7.9	30	375	DN1020CT-ND	1.72	1.47	.98	DN1020TR-ND	392.00	S1008-222K
2.7	7.9	30	365	DN1021CT-ND	1.72	1.47	.98	DN1021TR-ND	392.00	S1008-272K
3.3	7.9	30	355	DN1022CT-ND	1.72	1.47	.98	DN1022TR-ND	392.00	S1008-332K
3.9	7.9	30	335	DN1023CT-ND	1.72	1.47	.98	—	—	S1008-392K
4.7	7.9	30	305	DN1024CT-ND	1.72	1.47	.98	DN1024TR-ND	392.00	S1008-472K
5.6	7.9	30	295	DN1025CT-ND	1.72	1.47	.98	DN1025TR-ND	392.00	S1008-562K
6.8	7.9	30	250	DN1026CT-ND	1.72	1.47	.98	DN1026TR-ND	392.00	S1008-682K
8.2	7.9	30	240	DN1027CT-ND	1.72	1.47	.98	DN1027TR-ND	392.00	S1008-822K
10.0	7.9	30	230	DN1028CT-ND	1.72	1.47	.98	DN1028TR-ND	392.00	S1008-103K
12.0	2.5	30	220	DN1029CT-ND	1.72	1.47	.98	DN1029TR-ND	392.00	S1008-123K
15.0	2.5	30	210	DN1030CT-ND	1.72	1.47	.98	DN1030TR-ND	392.00	S1008-153K
18.0	2.5	30	200	DN1031CT-ND	1.72	1.47	.98	DN1031TR-ND	392.00	S1008-183K
22.0	2.5	30	170	DN1032CT-ND	1.72	1.47	.98	DN1032TR-ND	392.00	S1008-223K
27.0	2.5	30	160	DN1033CT-ND	1.72	1.47	.98	DN1033TR-ND	392.00	S1008-273K
33.0	2.5	30	125	DN1034CT-ND	1.72	1.47	.98	DN1034TR-ND	392.00	S1008-333K
47.0	2.5	30	110	DN1036CT-ND	1.72	1.47	.98	DN1036TR-ND	392.00	S1008-473K

S1008KIT-ND (API Delevan Part No. S1008KIT)
Series S1008 Inductor Kit. 5 each of 36 values (0.1µH to 47.0µH), 180 total pieces **$95.95**

Series 1210 Unshielded Surface Mount Inductors

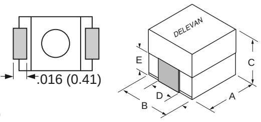

Operating Temperature Range: -67°F ~ 257°F (-55°C ~ 125°C)
Maximum Power Dissipation @ 90°C Ambient: .168W (Phenolic), .287W (Iron and Ferrite)

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E (Ref. only)
.118 ~ .138 (3.00 ~ 3.51)	.085 ~ .105 (2.16 ~ 2.67)	.081 ~ .101 (2.06 ~ 2.57)	.041 ~ .061 (1.04 ~ 1.55)	.054 (1.37)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series 1210 Phenolic Core, ±10%										
.010	50.0	30	966	DN10100CT-ND	.84	.72	.48	DN10100TR-ND	192.00	1210-100K
.012	50.0	30	931	DN10120CT-ND	.84	.72	.48	—	—	1210-120K
.015	50.0	30	871	DN10150CT-ND	.84	.72	.48	DN10150TR-ND	192.00	1210-150K
.018	50.0	30	821	DN10180CT-ND	.84	.72	.48	DN10180TR-ND	192.00	1210-180K
.022	50.0	30	779	DN10220CT-ND	.84	.72	.48	DN10220TR-ND	192.00	1210-220K
.027	50.0	30	743	DN10270CT-ND	.84	.72	.48	DN10270TR-ND	192.00	1210-270K
.033	50.0	30	711	DN10330CT-ND	.84	.72	.48	DN10330TR-ND	192.00	1210-330K
.039	50.0	30	670	DN10390CT-ND	.84	.72	.48	DN10390TR-ND	192.00	1210-390K
.047	50.0	30	636	DN10470CT-ND	.84	.72	.48	DN10470TR-ND	192.00	1210-470K
.056	50.0	30	606	DN10560CT-ND	.84	.72	.48	DN10560TR-ND	192.00	1210-560K
.068	50.0	30	580	DN10680CT-ND	.74	.63	.42	DN10680TR-ND	168.00	1210-680K
.082	50.0	30	551	DN10820CT-ND	.84	.72	.48	DN10820TR-ND	192.00	1210-820K
Series 1210 Iron Core, ±10%										
.10	25.0	30	1018	DN10101CT-ND	.95	.81	.54	DN10101TR-ND	216.00	1210-101K
.12	25.0	30	971	DN10121CT-ND	.95	.81	.54	DN10121TR-ND	216.00	1210-121K
.15	25.0	30	910	DN10151CT-ND	.95	.81	.54	DN10151TR-ND	216.00	1210-151K
.22	25.0	30	805	DN10221CT-ND	.95	.81	.54	DN10221TR-ND	216.00	1210-221K
.27	25.0	30	759	DN10271CT-ND	.95	.81	.54	DN10271TR-ND	216.00	1210-271K
.33	25.0	30	720	DN10331CT-ND	.95	.81	.54	DN10331TR-ND	216.00	1210-331K
.39	25.0	30	679	DN10391CT-ND	.95	.81	.54	DN10391TR-ND	216.00	1210-391K
.47	25.0	30	644	DN10471CT-ND	.95	.81	.54	DN10471TR-ND	216.00	1210-471K
.56	25.0	30	614	DN10561CT-ND	.95	.81	.54	DN10561TR-ND	216.00	1210-561K
.68	25.0	30	588	DN10681CT-ND	.95	.81	.54	DN10681TR-ND	216.00	1210-681K
.82	25.0	30	556	DN10821CT-ND	.95	.81	.54	DN10821TR-ND	216.00	1210-821K
Series 1210 Ferrite Core, ±5%										
1.0	7.9	30	515	DN10102JCT-ND	.98	.84	.56	DN10102JTR-ND	224.00	1210-102J
1.2	7.9	30	497	DN10122JCT-ND	.98	.84	.56	DN10122JTR-ND	224.00	1210-122J
1.5	7.9	30	467	DN10152JCT-ND	.98	.84	.56	DN10152JTR-ND	224.00	1210-152J
1.8	7.9	30	454	DN10182JCT-ND	.98	.84	.56	DN10182JTR-ND	224.00	1210-182J
2.2	7.9	30	431	DN10222JCT-ND	.98	.84	.56	DN10222JTR-ND	224.00	1210-222J
2.7	7.9	30	411	DN10272JCT-ND	.98	.84	.56	DN10272JTR-ND	224.00	1210-272J
3.3	7.9	30	393	DN10332JCT-ND	.98	.84	.56	DN10332JTR-ND	224.00	1210-332J
3.9	7.9	30	378	DN10392JCT-ND	.98	.84	.56	DN10392JTR-ND	224.00	1210-392J
4.7	7.9	30	352	DN10472JCT-ND	.98	.84	.56	DN10472JTR-ND	224.00	1210-472J
5.6	7.9	30	341	DN10562JCT-ND	.98	.84	.56	DN10562JTR-ND	224.00	1210-562J
6.8	7.9	30	321	DN10682JCT-ND	.98	.84	.56	DN10682JTR-ND	224.00	1210-682J
8.2	7.9	30	305	DN10822JCT-ND	.98	.84	.56	DN10822JTR-ND	224.00	1210-822J
10.0	7.9	30	297	DN10103JCT-ND	1.02	.87	.58	DN10103JTR-ND	232.00	1210-103J
15.0	2.5	30	257	DN10153JCT-ND	1.02	.87	.58	DN10153JTR-ND	232.00	1210-153J
18.0	2.5	30	237	DN10183JCT-ND	1.02	.87	.58	DN10183JTR-ND	232.00	1210-183J
22.0	2.5	30	224	DN10223JCT-ND	1.02	.87	.58	DN10223JTR-ND	232.00	1210-223J
27.0	2.5	30	193	DN10273JCT-ND	1.02	.87	.58	DN10273JTR-ND	232.00	1210-273J
33.0	2.5	30	182	DN10333JCT-ND	1.02	.87	.58	DN10333JTR-ND	232.00	1210-333J
39.0	2.5	30	170	DN10393JCT-ND	1.02	.87	.58	DN10393JTR-ND	232.00	1210-393J
47.0	2.5	30	163	DN10473JCT-ND	1.02	.87	.58	DN10473JTR-ND	232.00	1210-473J
56.0	2.5	30	152	DN10563JCT-ND	1.02	.87	.58	DN10563JTR-ND	232.00	1210-563J
68.0	2.5	30	144	DN10683JCT-ND	1.02	.87	.58	DN10683JTR-ND	232.00	1210-683J
82.0	2.5	30	136	DN10823JCT-ND	1.02	.87	.58	DN10823JTR-ND	232.00	1210-823J
100.0	2.5	30	120	DN10104JCT-ND	1.02	.87	.58	DN10104JTR-ND	232.00	1210-104J

1210KIT-ND (API Delevan Part No. 1210KIT)
Series 1210 Inductor Kit. 5 each of 58 values (0.0018µH to 100.0µH), 290 total pieces............... **$95.95**

(Continued)

Series S1210 Shielded Surface Mount Inductors

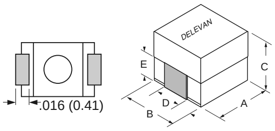

Operating Temperature Range: -55°C ~ 125°C
Maximum Power Dissipation @ 90°C: .266W (Iron), .224W (Ferrite)

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E
.118 ~ .138 (3.00 ~ 3.51)	.085 ~ .105 (2.16 ~ 2.67)	.081 ~ .101 (2.06 ~ 2.57)	.041 ~ .061 (1.04 ~ 1.55)	.054 (1.37)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series S1210 Iron Core, ±10%										
.10	25	40	1175	DN1050CT-ND	1.09	.93	.62	DN1050TR-ND	248.00	S1210-101K
.12	25	40	1104	DN1051CT-ND	1.09	.93	.62	DN1051TR-ND	248.00	S1210-121K
.15	25	40	1017	DN1052CT-ND	1.09	.93	.62	DN1052TR-ND	248.00	S1210-151K
.18	25	40	971	DN1053CT-ND	1.09	.93	.62	DN1053TR-ND	248.00	S1210-181K
.27	25	40	860	DN1055CT-ND	1.09	.93	.62	—	—	S1210-271K
.33	25	40	831	DN1056CT-ND	1.09	.93	.62	DN1056TR-ND	248.00	S1210-331K
.39	25	40	720	DN1057CT-ND	1.09	.93	.62	DN1057TR-ND	248.00	S1210-391K
.47	25	40	679	DN1058CT-ND	1.09	.93	.62	DN1058TR-ND	248.00	S1210-471K
.56	25	40	644	DN1059CT-ND	1.09	.93	.62	DN1059TR-ND	248.00	S1210-561K
.68	25	40	614	DN1060CT-ND	1.09	.93	.62	DN1060TR-ND	248.00	S1210-681K
.82	25	40	588	DN1061CT-ND	1.09	.93	.62	DN1061TR-ND	248.00	S1210-821K
Series S1210 Ferrite Core, ±10%										
1.0	7.9	40	679	DN1062CT-ND	1.02	.87	.58	DN1062TR-ND	232.00	S1210-102K
1.2	7.9	40	650	DN1063CT-ND	1.02	.87	.58	DN1063TR-ND	232.00	S1210-122K
1.5	7.9	40	603	DN1064CT-ND	1.02	.87	.58	DN1064TR-ND	232.00	S1210-152K
1.8	7.9	40	564	DN1065CT-ND	1.02	.87	.58	DN1065TR-ND	232.00	S1210-182K
2.2	7.9	40	533	DN1066CT-ND	1.02	.87	.58	DN1066TR-ND	232.00	S1210-222K
2.7	7.9	40	526	DN1067CT-ND	1.02	.87	.58	DN1067TR-ND	232.00	S1210-272K
3.3	7.9	40	509	DN1068CT-ND	1.02	.87	.58	DN1068TR-ND	232.00	S1210-332K
3.9	7.9	40	500	DN1069CT-ND	1.02	.87	.58	DN1069TR-ND	232.00	S1210-392K
4.7	7.9	40	455	DN1070CT-ND	1.02	.87	.58	DN1070TR-ND	232.00	S1210-472K
5.6	7.9	40	399	DN1071CT-ND	1.02	.87	.58	DN1071TR-ND	232.00	S1210-562K
6.8	7.9	40	372	DN1072CT-ND	1.02	.87	.58	DN1072TR-ND	232.00	S1210-682K
8.2	7.9	40	349	DN1073CT-ND	1.02	.87	.58	DN1073TR-ND	232.00	S1210-822K
10.0	2.5	40	330	DN1074CT-ND	1.02	.87	.58	DN1074TR-ND	232.00	S1210-103K
12.0	2.5	40	314	DN1075CT-ND	1.02	.87	.58	—	—	S1210-123K
15.0	2.5	40	288	DN1076CT-ND	1.02	.87	.58	DN1076TR-ND	232.00	S1210-153K
22.0	2.5	40	262	DN1078CT-ND	1.02	.87	.58	DN1078TR-ND	232.00	S1210-223K
27.0	2.5	40	228	DN1079CT-ND	1.02	.87	.58	DN1079TR-ND	232.00	S1210-273K
33.0	2.5	40	215	DN1080CT-ND	1.02	.87	.58	DN1080TR-ND	232.00	S1210-333K
39.0	2.5	40	204	DN1081CT-ND	1.02	.87	.58	DN1081TR-ND	232.00	S1210-393K
47.0	2.5	40	194	DN1082CT-ND	1.02	.87	.58	DN1082TR-ND	232.00	S1210-473K
68.0	2.5	40	172	DN1084CT-ND	1.02	.87	.58	DN1084TR-ND	232.00	S1210-683K
82.0	2.5	40	156	DN1085CT-ND	1.02	.87	.58	DN1085TR-ND	232.00	S1210-823K
100.0	2.5	40	144	DN1086CT-ND	1.02	.87	.58	DN1086TR-ND	232.00	S1210-104K

S1210KIT-ND (API Delevan Part No. S1210KIT)
Series S1210 Inductor Kit. 5 each of 37 values (0.10µH to 100.0µH), 185 total pieces................**$95.95**

Series 1812 Unshielded Surface Mount Inductors

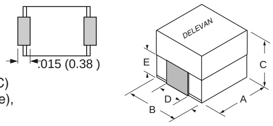

Operating Temperature Range: -67°F ~ 257°F (-55°C ~ 125°C)
Maximum Power Dissipation @ 90°C: .278W (Iron and Ferrite), .210W (Phenolic).

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E
.166 ~ .190 (4.22 ~ 4.83)	.118 ~ .134 (3.00 ~ 3.40)	.118 ~ .134 (3.00 ~ 3.40)	.054 ~ .078 (1.37 ~ 1.98)	.066 (1.68)

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series 1812 Iron Core, ±10%										
.10	25.0	30	818	DN12101CT-ND	.70	.60	.40	DN12101TR-ND	160.00	1812-101K
.12	25.0	30	818	DN12121CT-ND	.70	.60	.40	DN12121TR-ND	160.00	1812-121K
.18	25.0	30	757	DN12181CT-ND	.70	.60	.40	DN12181TR-ND	160.00	1812-181K
.22	25.0	30	708	DN12221CT-ND	.70	.60	.40	DN12221TR-ND	160.00	1812-221K
.27	25.0	30	668	DN12271CT-ND	.70	.60	.40	DN12271TR-ND	160.00	1812-271K
.33	25.0	30	604	DN12331CT-ND	.70	.60	.40	—	—	1812-331K
.39	25.0	30	535	DN12391CT-ND	.70	.60	.40	—	—	1812-391K
.47	25.0	30	501	DN12471CT-ND	.70	.60	.40	DN12471TR-ND	160.00	1812-471K
.56	25.0	30	409	DN12561CT-ND	.70	.60	.40	DN12561TR-ND	160.00	1812-561K
.68	25.0	30	379	DN12681CT-ND	.70	.60	.40	DN12681TR-ND	160.00	1812-681K
.82	25.0	30	354	DN12821CT-ND	.70	.60	.40	—	—	1812-821K
Series 1812 Ferrite Core — J Tolerance, ±5%										
1.0	7.9	50	634	DN12102JCT-ND	.77	.66	.44	DN12102JTR-ND	176.00	1812-102J
1.2	7.9	50	604	DN12122JCT-ND	.77	.66	.44	DN12122JTR-ND	176.00	1812-122J
1.5	7.9	50	578	DN12152JCT-ND	.77	.66	.44	DN12152JTR-ND	176.00	1812-152J
1.8	7.9	50	556	DN12182JCT-ND	.77	.66	.44	DN12182JTR-ND	176.00	1812-182J
2.2	7.9	50	535	DN12222JCT-ND	.77	.66	.44	DN12222JTR-ND	176.00	1812-222J
2.7	7.9	50	517	DN12272JCT-ND	.77	.66	.44	DN12272JTR-ND	176.00	1812-272J
3.3	7.9	50	501	DN12332JCT-ND	.77	.66	.44	DN12332JTR-ND	176.00	1812-332J
3.9	7.9	50	472	DN12392JCT-ND	.77	.66	.44	DN12392JTR-ND	176.00	1812-392J
4.7	7.9	50	448	DN12472JCT-ND	.77	.66	.44	DN12472JTR-ND	176.00	1812-472J
5.6	7.9	50	427	DN12562JCT-ND	.77	.66	.44	DN12562JTR-ND	176.00	1812-562J
6.8	7.9	50	409	DN12682JCT-ND	.77	.66	.44	—	—	1812-682J
8.2	7.9	50	375	DN12822JCT-ND	.77	.66	.44	DN12822JTR-ND	176.00	1812-822J
10.0	7.9	50	354	DN12103JCT-ND	.77	.66	.44	DN12103JTR-ND	176.00	1812-103J
12.0	2.5	50	317	DN12123JCT-ND	.77	.66	.44	DN12123JTR-ND	176.00	1812-123J
15.0	2.5	50	283	DN12153JCT-ND	.77	.66	.44	DN12153JTR-ND	176.00	1812-153J
18.0	2.5	50	268	DN12183JCT-ND	.77	.66	.44	DN12183JTR-ND	176.00	1812-183J
22.0	2.5	50	250	DN12223JCT-ND	.77	.66	.44	DN12223JTR-ND	176.00	1812-223J
27.0	2.5	50	236	DN12273JCT-ND	.77	.66	.44	DN12273JTR-ND	176.00	1812-273J
33.0	2.5	50	224	DN12333JCT-ND	.77	.66	.44	DN12333JTR-ND	176.00	1812-333J
39.0	2.5	50	211	DN12393JCT-ND	.77	.66	.44	DN12393JTR-ND	176.00	1812-393J
47.0	2.5	50	200	DN12473JCT-ND	.77	.66	.44	DN12473JTR-ND	176.00	1812-473J
56.0	2.5	50	191	DN12563JCT-ND	.77	.66	.44	DN12563JTR-ND	176.00	1812-563J
82.0	2.5	50	169	DN12823JCT-ND	.77	.66	.44	DN12823JTR-ND	176.00	1812-823J
100.0	2.5	50	158	DN12104JCT-ND	.77	.66	.44	DN12104JTR-ND	176.00	1812-104J
120.0	0.79	40	158	DN12124JCT-ND	.77	.66	.44	DN12124JTR-ND	176.00	1812-124J
150.0	0.79	40	149	DN12154JCT-ND	.77	.66	.44	DN12154JTR-ND	176.00	1812-154J
180.0	0.79	40	145	DN12184JCT-ND	.77	.66	.44	DN12184JTR-ND	176.00	1812-184J
220.0	0.79	40	142	DN12224JCT-ND	1.16	.99	.66	DN12224JTR-ND	264.00	1812-224J
270.0	0.79	40	129	DN12274JCT-ND	1.16	.99	.66	DN12274JTR-ND	264.00	1812-274J
330.0	0.79	40	120	DN12334JCT-ND	1.16	.99	.66	DN12334JTR-ND	264.00	1812-334J
470.0	0.79	40	88	DN12474JCT-ND	1.16	.99	.66	DN12474JTR-ND	264.00	1812-474J
560.0	0.79	30	82	DN12564JCT-ND	1.16	.99	.66	DN12564JTR-ND	264.00	1812-564J
680.0	0.79	30	82	DN12684JCT-ND	1.16	.99	.66	DN12684JTR-ND	264.00	1812-684J
820.0	0.79	30	67	DN12824JCT-ND	1.16	.99	.66	DN12824JTR-ND	264.00	1812-824J
1000.0	0.79	30	55	DN12105JCT-ND	1.16	.99	.66	DN12105JTR-ND	264.00	1812-105J

1812KIT-ND (API Delevan Part No. 1812KIT)
Series 1812 Inductor Kit. 5 each of 61 values (0.010µH to 1000.0µH), 305 total pieces...............**$95.95**

Series S1812 Shielded Surface Mount Inductors

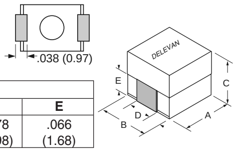

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E
.166 ~ .190 (4.22 ~ 4.83)	.118 ~ .134 (3.00 ~ 3.40)	.118 ~ .134 (3.00 ~ 3.40)	.054 ~ .078 (1.37 ~ 1.98)	.066 (1.68)

Operating Temperature Range: -55°C ~ 125°C **Maximum Power Dissipation @ 90°C:** .278W

Induct. (µH)	Test Freq. (MHz)	Q Min.	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
Series S1812 Iron Core, ±20%										
.12	25	50	1412	DN1101CT-ND	1.26	1.08	.72	DN1101TR-ND	288.00	S1812-121M
.15	25	50	1347	DN1102CT-ND	1.26	1.08	.72	DN1102TR-ND	288.00	S1812-151M
.18	25	50	1290	DN1103CT-ND	1.26	1.08	.72	DN1103TR-ND	288.00	S1812-181M
.47	25	40	802	DN1108CT-ND	1.26	1.08	.72	—	—	S1812-471M
.56	25	40	735	DN1109CT-ND	1.26	1.08	.72	DN1109TR-ND	288.00	S1812-561M
.82	25	40	614	DN1111CT-ND	1.26	1.08	.72	DN1111TR-ND	288.00	S1812-821M
Series S1812 Ferrite Core, ±10%										
1.0	7.9	40	755	DN1112CT-ND	1.30	1.11	.74	DN1112TR-ND	296.00	S1812-102K
1.2	7.9	40	725	DN1113CT-ND	1.30	1.11	.74	DN1113TR-ND	296.00	S1812-122K
1.5	7.9	40	706	DN1114CT-ND	1.30	1.11	.74	DN1114TR-ND	296.00	S1812-152K
1.8	7.9	40	681	DN1115CT-ND	1.30	1.11	.74	DN1115TR-ND	296.00	S1812-182K
2.2	7.9	40	658	DN1116CT-ND	1.30	1.11	.74	DN1116TR-ND	296.00	S1812-222K
3.3	7.9	40	534	DN1118CT-ND	1.30	1.11	.74	DN1118TR-ND	296.00	S1812-332K
3.9	7.9	40	487	DN1119CT-ND	1.30	1.11	.74	DN1119TR-ND	296.00	S1812-392K
4.7	7.9	40	471	DN1120CT-ND	1.30	1.11	.74	DN1120TR-ND	296.00	S1812-472K
5.6	7.9	40	447	DN1121CT-ND	1.30	1.11	.74	DN1121TR-ND	296.00	S1812-562K
6.8	7.9	40	408	DN1122CT-ND	1.30	1.11	.74	DN1122TR-ND	296.00	S1812-682K
8.2	7.9	40	372	DN1123CT-ND	1.30	1.11	.74	DN1123TR-ND	296.00	S1812-822K
10.0	2.5	40	333	DN1124CT-ND	1.30	1.11	.74	DN1124TR-ND	296.00	S1812-103K
12.0	2.5	50	315	DN1125CT-ND	1.30	1.11	.74	DN1125TR-ND	296.00	S1812-123K
15.0	2.5	50	301	DN1126CT-ND	1.30	1.11	.74	DN1126TR-ND	296.00	S1812-153K
22.0	2.5	50	277	DN1128CT-ND	1.30	1.11	.74	DN1128TR-ND	296.00	S1812-223K
27.0	2.5	50	267	DN1129CT-ND	1.30	1.11	.74	—	—	S1812-273K
33.0	2.5	50	258	DN1130CT-ND	1.30	1.11	.74	DN1130TR-ND	296.00	S1812-333K
39.0	2.5	50	250	DN1131CT-ND	1.30	1.11	.74	DN1131TR-ND	296.00	S1812-393K
47.0	2.5	50	242	DN1132CT-ND	1.30	1.11	.74	DN1132TR-ND	296.00	S1812-473K
56.0	2.5	50	235	DN1133CT-ND	1.30	1.11	.74	DN1133TR-ND	296.00	S1812-563K
68.0	2.5	50	215	DN1134CT-ND	1.30	1.11	.74	DN1134TR-ND	296.00	S1812-683K
82.0	2.5	50	196	DN1135CT-ND	1.30	1.11	.74	DN1135TR-ND	296.00	S1812-823K
100.0	.79	40	169	DN1136CT-ND	1.30	1.11	.74	DN1136TR-ND	296.00	S1812-104K
120.0	.79	40	163	DN1137CT-ND	1.30	1.11	.74	DN1137TR-ND	296.00	S1812-124K
150.0	.79	40	158	DN1138CT-ND	1.30	1.11	.74	DN1138TR-ND	296.00	S1812-154K
180.0	.79	40	153	DN1139CT-ND	1.30	1.11	.74	DN1139TR-ND	296.00	S1812-184K
220.0	.79	40	149	DN1140CT-ND	1.54	1.32	.88	DN1140TR-ND	352.00	S1812-224K
270.0	.79	40	135	DN1141CT-ND	1.54	1.32	.88	DN1141TR-ND	352.00	S1812-274K
330.0	.79	40	129	DN1142CT-ND	1.54	1.32	.88	DN1142TR-ND	352.00	S1812-334K
390.0	.79	40	105	DN1143CT-ND	1.54	1.32	.88	DN1143TR-ND	352.00	S1812-394K
470.0	.79	40	91	DN1144CT-ND	1.54	1.32	.88	DN1144TR-ND	352.00	S1812-474K
560.0	.79	40	84	DN1145CT-ND	1.54	1.32	.88	DN1145TR-ND	352.00	S1812-564K
680.0	.79	40	79	DN1146CT-ND	1.54	1.32	.88	DN1146TR-ND	352.00	S1812-684K
820.0	.79	40	71	DN1147CT-ND	1.54	1.32	.88	DN1147TR-ND	352.00	S1812-824K
1000.0	.25	40	60	DN1148CT-ND	1.54	1.32	.88	DN1148TR-ND	352.00	S1812-105K

S1812KIT-ND (API Delevan Part No. S1812KIT)
Series S1812 Inductor Kit. 5 each of 49 values (0.10µH to 1000.0µH), 245 total pieces **$95.95**

(Continued)

Series P1812
Surface Mount Power Inductors

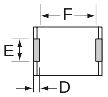

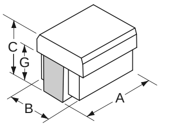

Minimum to Maximum Dimensions – Inch (mm)			
A (over terminals)	**B**	**C (over terminals)**	**D (Min.)**
.166 ~ .190 (4.22 ~ 4.83)	.118 ~ .134 (3.00 ~ 3.40)	.118 ~ .134 (3.00 ~ 3.40)	.015 (.38)

E	**F (Ref. only)**	**G (Ref. only)**
.054 ~ .078 (1.37-1.98)	.118 (3.00)	.066 (1.68)

Operating Temperature Range: -55°C ~ 125°C **Maximum Power Dissipation @ 90°C:** .278W.

Induct. (µH) ±10% @ 1KHz	DC Resist. Max. (Ohms)	Current Rating (mA)	Incre-mental Current Rating (mA DC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
1.0	0.113	1050	2400	DN3300CT-ND	.86	.75	.50	—	—	P1812-102K
4.7	0.401	650	1131	DN3308CT-ND	.86	.75	.50	DN3308TR-ND	197.60	P1812-472K
5.6	0.437	650	1060	DN3309CT-ND	.86	.75	.50	DN3309TR-ND	197.60	P1812-562K
6.8	0.472	600	990	DN3310CT-ND	.86	.75	.50	DN3310TR-ND	197.60	P1812-682K
10	0.608	550	772	DN3312CT-ND	.93	.80	.53	DN3312TR-ND	212.00	P1812-103K
15	0.780	450	693	DN3314CT-ND	.93	.80	.53	DN3314TR-ND	212.00	P1812-153K
18	0.875	400	614	DN3315CT-ND	.93	.80	.53	DN3315TR-ND	212.00	P1812-183K
22	1.200	370	515	DN3316CT-ND	.93	.80	.53	DN3316TR-ND	212.00	P1812-223K
33	1.578	300	425	DN3318CT-ND	.93	.80	.53	DN3318TR-ND	212.00	P1812-333K
39	1.848	280	376	DN3319CT-ND	.93	.80	.53	DN3319TR-ND	212.00	P1812-393K
47	2.064	260	366	DN3320CT-ND	.93	.80	.53	DN3320TR-ND	212.00	P1812-473K
56	2.268	240	336	DN3321CT-ND	.93	.80	.53	—	—	P1812-563K
68	3.408	220	297	DN3322CT-ND	.93	.80	.53	DN3322TR-ND	212.00	P1812-683K
100	4.320	180	238	DN3324CT-ND	.93	.80	.53	DN3324TR-ND	212.00	P1812-104K
120	6.000	160	208	DN3325CT-ND	.93	.80	.53	DN3325TR-ND	212.00	P1812-124K

Series P1330
Surface Mount Power Inductors

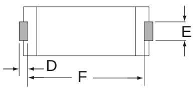

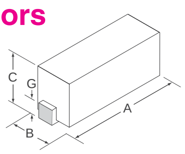

Minimum to Maximum Dimensions – Inch (mm)			
A	**B**	**C**	**D (Min.)**
.300 ~ .325 (7.62 ~ 8.26)	.105 ~ .125 (2.67 ~ 3.18)	.125 ~ .145 (3.18 ~ 3.68)	.020 (.506)

E	**F (Ref. only)**	**G (Ref. only)**
.040 ~ .060 (1.02 ~ 1.52)	.190 (4.83)	.070 (1.78)

Operating Temperature Range: -55°C ~ 125°C **Maximum Power Dissipation @ 90°C:** .210W

Induct. (µH) ±10% @ 1KHz	DC Resist. Max. (Ohms)	Current Rating (mA)	Incre-mental Current Rating (mA DC)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500	API Delevan Part No.
1	0.035	2780	1526	DN3260CT-ND	1.56	1.34	.90	DN3260TR-ND	356.80	P1330-102K
1.8	0.048	1950	1180	DN3263CT-ND	1.56	1.34	.90	—	—	P1330-182K
2.2	0.075	1690	1104	DN3264CT-ND	1.56	1.34	.90	DN3264TR-ND	356.80	P1330-222K
5.6	0.145	1110	612	DN3269CT-ND	1.56	1.34	.90	DN3269TR-ND	356.80	P1330-562K
10	0.216	946	564	DN3272CT-ND	1.56	1.34	.90	DN3272TR-ND	356.80	P1330-103K
22	0.384	694	348	DN3276CT-ND	1.56	1.34	.90	DN3276TR-ND	356.80	P1330-223K
39	0.600	488	270	DN3279CT-ND	1.56	1.34	.90	DN3279TR-ND	356.80	P1330-393K
47	0.792	467	246	DN3280CT-ND	1.56	1.34	.90	DN3280TR-ND	356.80	P1330-473K
68	1.020	384	174	DN3282CT-ND	1.56	1.34	.90	DN3282TR-ND	356.80	P1330-683K
82	1.380	362	150	DN3283CT-ND	1.56	1.34	.90	DN3283TR-ND	356.80	P1330-823K
100	1.680	347	132	DN3284CT-ND	1.83	1.57	1.05	DN3284TR-ND	418.40	P1330-104K
150	2.040	272	106	DN3286CT-ND	1.83	1.57	1.05	DN3286TR-ND	418.40	P1330-154K
220	2.648	223	72	DN3288CT-ND	1.83	1.57	1.05	—	—	P1330-224K
330	4.800	179	57	DN3290CT-ND	1.83	1.57	1.05	DN3290TR-ND	418.40	P1330-334K
470	6.000	161	41	DN3292CT-ND	1.83	1.57	1.05	DN3292TR-ND	418.40	P1330-474K
1000	11.160	105	22	DN3296CT-ND	1.83	1.57	1.05	DN3296TR-ND	418.40	P1330-105K

Series 4922
High Current Surface Mount Power Inductors

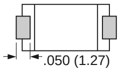

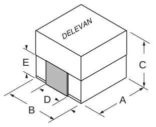

Mechanical Configuration: Units are encapsulated in a surface mount package using an epoxy molded case. Leads are pre-tinned. A high resistivity ferrite core allows for high inductance with low DC resistance. **Operating Temperature Range:** -55°C ~ 125°C **Current Rating:** 40°C Rise over 85°C Ambient **Maximum Power Dissipation @ 85°C:** .55W **Inductance:** Measured at 1V with no DC current

Minimum to Maximum Dimensions – Inch (mm)				
A	**B**	**C**	**D**	**E (Ref. only)**
.500 (12.70)	.240 (6.10)	.220 (5.59)	.065 (1.66)	.100 (2.54)

Induct. (µH) ±15% @ 1KHz	DC Resist. Max. (Ohms)	Rated Current (Max. Amps)	Incre-mental Current (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 800	API Delevan Part No.
SERIES 4922 FERRITE CORE, ±15%										
0.22	0.0080	7.00	7.00	DN2193CT-ND	2.24	1.92	1.28	DN2193TR-ND	819.20	4922-221L
0.33	0.0090	6.50	6.50	DN2195CT-ND	2.24	1.92	1.28	DN2195TR-ND	819.20	4922-331L
0.39	0.0095	6.25	6.25	DN2196CT-ND	2.24	1.92	1.28	DN2196TR-ND	819.20	4922-391L
0.47	0.0100	6.00	6.00	DN2197CT-ND	2.24	1.92	1.28	DN2197TR-ND	819.20	4922-471L
0.56	0.0105	5.80	5.80	DN2198CT-ND	2.24	1.92	1.28	DN2198TR-ND	819.20	4922-561L
0.68	0.0110	5.70	5.70	DN2199CT-ND	2.24	1.92	1.28	DN2199TR-ND	819.20	4922-681L
0.82	0.0120	5.60	5.60	DN2200CT-ND	2.24	1.92	1.28	—	—	4922-821L
1.0	0.013	5.50	5.50	DN2201CT-ND	2.24	1.92	1.28	DN2201TR-ND	819.20	4922-01L
1.2	0.018	4.69	4.69	DN2202CT-ND	2.24	1.92	1.28	DN2202TR-ND	819.20	4922-02L
1.5	0.020	4.45	4.45	DN2203CT-ND	2.24	1.92	1.28	DN2203TR-ND	819.20	4922-03L
1.8	0.021	4.34	4.34	DN2204CT-ND	2.24	1.92	1.28	DN2204TR-ND	819.20	4922-04L
2.2	0.029	3.70	3.70	DN2205CT-ND	2.24	1.92	1.28	DN2205TR-ND	819.20	4922-05L
2.7	0.034	3.41	3.41	DN2206CT-ND	2.24	1.92	1.28	—	—	4922-06L
3.3	0.038	3.23	3.23	DN2207CT-ND	2.24	1.92	1.28	DN2207TR-ND	819.20	4922-07L
3.9	0.042	3.07	3.07	DN2208CT-ND	2.24	1.92	1.28	DN2208TR-ND	819.20	4922-08L
4.7	0.047	2.90	2.90	DN2209CT-ND	2.24	1.92	1.28	DN2209TR-ND	819.20	4922-09L
5.6	0.051	2.79	2.79	DN2210CT-ND	2.38	2.04	1.36	DN2210TR-ND	870.40	4922-10L
8.2	0.063	2.51	2.51	DN2212CT-ND	2.38	2.04	1.36	DN2212TR-ND	870.40	4922-12L
10.0	0.071	2.36	2.36	DN2213CT-ND	2.38	2.04	1.36	DN2213TR-ND	870.40	4922-13L
12.0	0.079	2.24	2.24	DN2214CT-ND	2.38	2.04	1.36	DN2214TR-ND	870.40	4922-14L
15.0	0.089	2.11	2.11	DN2215CT-ND	2.38	2.04	1.36	DN2215TR-ND	870.40	4922-15L
18.0	0.119	1.82	1.82	DN2216CT-ND	2.38	2.04	1.36	DN2216TR-ND	870.40	4922-16L
22.0	0.152	1.61	1.61	DN2217CT-ND	2.56	2.19	1.46	DN2217TR-ND	934.40	4922-17L
27.0	0.179	1.48	1.48	DN2218CT-ND	2.56	2.19	1.46	DN2218TR-ND	934.40	4922-18L
33.0	0.222	1.33	1.33	DN2219CT-ND	2.56	2.19	1.46	DN2219TR-ND	934.40	4922-19L
39.0	0.315	1.12	1.12	DN2220CT-ND	2.56	2.19	1.46	DN2220TR-ND	934.40	4922-20L
47.0	0.362	1.04	1.04	DN2221CT-ND	2.56	2.19	1.46	DN2221TR-ND	934.40	4922-21L
56.0	0.397	1.00	1.00	DN2222CT-ND	2.56	2.19	1.46	DN2222TR-ND	934.40	4922-22L
68.0	0.418	0.97	0.97	DN2223CT-ND	2.56	2.19	1.46	DN2223TR-ND	934.40	4922-23L
82.0	0.604	0.81	0.81	DN2224CT-ND	2.73	2.34	1.56	DN2224TR-ND	998.40	4922-24L
100	0.672	0.76	0.76	DN2225CT-ND	2.73	2.34	1.56	DN2225TR-ND	998.40	4922-25L
120	0.735	0.73	0.73	DN2226CT-ND	2.73	2.34	1.56	DN2226TR-ND	998.40	4922-26L
150	0.998	0.63	0.63	DN2227CT-ND	2.73	2.34	1.56	DN2227TR-ND	998.40	4922-27L
180	1.37	0.53	0.53	DN2228CT-ND	2.73	2.34	1.56	DN2228TR-ND	998.40	4922-28L
220	1.58	0.50	0.50	DN2229CT-ND	2.73	2.34	1.56	DN2229TR-ND	998.40	4922-29L
270	1.77	0.47	0.47	DN2230CT-ND	2.73	2.34	1.56	DN2230TR-ND	998.40	4922-30L
330	2.51	0.39	0.39	DN2231CT-ND	2.73	2.34	1.56	DN2231TR-ND	998.40	4922-31L
390	2.73	0.38	0.38	DN2232CT-ND	2.73	2.34	1.56	DN2232TR-ND	998.40	4922-32L
470	3.25	0.35	0.35	DN2233CT-ND	2.73	2.34	1.56	DN2233TR-ND	998.40	4922-33L
560	3.75	0.33	0.33	DN2234CT-ND	2.80	2.40	1.60	—	—	4922-34L
680	4.31	0.30	0.30	DN2235CT-ND	2.80	2.40	1.60	DN2235TR-ND	1024.00	4922-35L
1000	6.90	0.24	0.24	DN2237CT-ND	2.80	2.40	1.60	DN2237TR-ND	1024.00	4922-37L
1200	10.00	0.20	0.20	DN2238CT-ND	2.80	2.40	1.60	DN2238TR-ND	1024.00	4922-38L
1500	12.50	0.178	0.178	DN2239CT-ND	2.80	2.40	1.60	—	—	4922-39L
1800	16.00	0.157	0.157	DN2333CT-ND	2.80	2.40	1.60	DN2333TR-ND	1024.00	4922-40L
2200	20.00	0.141	0.141	DN2334CT-ND	2.80	2.40	1.60	—	—	4922-41L
2700	23.00	0.131	0.131	DN2335CT-ND	2.80	2.40	1.60	DN2335TR-ND	1024.00	4922-42L
3900	33.00	0.110	0.110	DN2337CT-ND	2.80	2.40	1.60	DN2337TR-ND	1024.00	4922-44L
4700	37.00	0.103	0.103	DN2338CT-ND	2.80	2.40	1.60	DN2338TR-ND	1024.00	4922-45L
5600	40.00	0.100	0.100	DN2339CT-ND	2.80	2.40	1.60	DN2339TR-ND	1024.00	4922-46L
6800	62.00	0.080	0.080	DN2340CT-ND	2.94	2.52	1.68	DN2340TR-ND	1075.20	4922-47L
8200	66.00	0.077	0.077	DN2341CT-ND	2.94	2.52	1.68	DN2341TR-ND	1075.20	4922-48L
10000	74.00	0.071	0.071	DN2342CT-ND	2.94	2.52	1.68	DN2342TR-ND	1075.20	4922-49L
12000	93.00	0.065	0.065	DN2343CT-ND	2.94	2.52	1.68	DN2343TR-ND	1075.20	4922-50L
18000	143.00	0.052	0.052	DN2345CT-ND	3.29	2.82	1.88	DN2345TR-ND	1203.20	4922-52L
22000	160.00	0.050	0.050	DN2346CT-ND	3.29	2.82	1.88	DN2346TR-ND	1203.20	4922-53L

(Continued)

API Delevan Inductors *(Cont.)*

Series 5022 Surface Mount Inductors

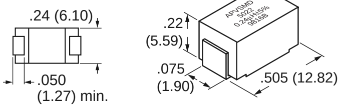

Mechanical Configuration: Units are encapsulated in a surface mount package using an epoxy molded case. **Operating Temperature Range:** -55°C ~ 125°C **Current Rating at 90°C Ambient:** 35°C Rise **Maximum Power Dissipation at 90°C**: .405W **Weight Maximum:** 1.5 grams

Induct. (µH) ± 5%	Q Min.	Test Freq. (MHz)	DC Resist. Max. (Ohms)	Current Rating Max. (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 800	API Delevan Part No.
Series 5022 Phenolic Core											
0.20	50	25.0	0.047	2790	DN2243CT-ND	2.73	2.34	1.56	DN2243TR-ND	998.40	5022-201J
0.62	50	25.0	0.140	1615	DN2255CT-ND	2.10	1.80	1.20	DN2255TR-ND	768.00	5022-621J
2.00	33	7.9	0.800	675	DN2267CT-ND	2.10	1.80	1.20	DN2267TR-ND	768.00	5022-202J
3.90	33	7.9	2.300	395	DN2274CT-ND	2.10	1.80	1.20	DN2274TR-ND	768.00	5022-392J
Series 5022 Iron Core											
13.0	65	2.5	1.200	520	DN2287CT-ND	2.31	1.98	1.32	DN2287TR-ND	844.80	5022-133J
100.0	50	2.5	4.500	275	DN2308CT-ND	2.49	2.13	1.42	DN2308TR-ND	908.80	5022-104J

Series 8532 Surface Mount Power Inductors

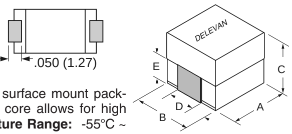

Mechanical Configuration: Units are encapsulated in a surface mount package using an epoxy molded case. High resistivity ferrite core allows for high inductance with low DC resistance. **Operating Temperature Range:** -55°C ~ 125°C **Current Rating:** 40°C Rise over 85°C Ambient **Maximum Power Dissipation at 85°C**: .50W **Inductance:** Measured at 1 V with no DC current

Minimum to Maximum Dimensions – Inch (mm)				
A (over terminals)	B	C (over terminals)	D	E (Ref. only)
.840 ~ .860 (21.34 ~ 21.84)	.310 ~ .330 (7.87 ~ 8.38)	.266 ~ .286 (6.76 ~ 7.26)	.070 ~ .110 (1.78 ~ 2.79)	.20 (5.08)

Induct. @ 1 KHz (µH)±15%	Max. DC Resist. (Ohms)	Current Rating Max. (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 480	API Delevan Part No.
Series 8532 Ferrite Core, ±15%									
1.0	0.009	6.27	DN3201CT-ND	3.01	2.58	1.72	DN3201TR-ND	660.48	8532-01LTR
1.2	0.010	5.95	DN3202CT-ND	3.01	2.58	1.72	DN3202TR-ND	660.48	8532-02LTR
1.5	0.011	5.67	DN3203CT-ND	3.01	2.58	1.72	—	—	8532-03LTR
2.2	0.013	5.22	DN3205CT-ND	3.01	2.58	1.72	DN3205TR-ND	660.48	8532-05LTR
3.3	0.016	4.70	DN3207CT-ND	3.01	2.58	1.72	DN3207TR-ND	660.48	8532-07LTR
3.9	0.017	4.56	DN3208CT-ND	3.01	2.58	1.72	DN3208TR-ND	660.48	8532-08LTR
4.7	0.022	4.01	DN3209CT-ND	3.01	2.58	1.72	DN3209TR-ND	660.48	8532-09LTR
5.6	0.024	3.84	DN3210CT-ND	3.01	2.58	1.72	DN3210TR-ND	660.48	8532-10LTR
6.8	0.026	3.69	DN3211CT-ND	3.01	2.58	1.72	DN3211TR-ND	660.48	8532-11LTR
10.0	0.033	3.27	DN3213CT-ND	3.36	2.88	1.92	DN3213TR-ND	737.28	8532-13LTR
12.0	0.037	3.09	DN3214CT-ND	3.36	2.88	1.92	DN3214TR-ND	737.28	8532-14LTR
15.0	0.040	2.97	DN3215CT-ND	3.36	2.88	1.92	DN3215TR-ND	737.28	8532-15LTR
18.0	0.044	2.84	DN3216CT-ND	3.36	2.88	1.92	DN3216TR-ND	737.28	8532-16LTR
22.0	0.050	2.66	DN3217CT-ND	3.36	2.88	1.92	DN3217TR-ND	737.28	8532-17LTR
27.0	0.070	2.25	DN3218CT-ND	3.36	2.88	1.92	DN3218TR-ND	737.28	8532-18LTR
33.0	0.075	2.17	DN3219CT-ND	3.36	2.88	1.92	—	—	8532-19LTR
47.0	0.104	1.84	DN3221CT-ND	3.36	2.88	1.92	DN3221TR-ND	737.28	8532-21LTR
56.0	0.130	1.65	DN3222CT-ND	3.36	2.88	1.92	DN3222TR-ND	737.28	8532-22LTR
68.0	0.145	1.56	DN3223CT-ND	3.36	2.88	1.92	DN3223TR-ND	737.28	8532-23LTR
82.0	0.152	1.53	DN3224CT-ND	3.36	2.88	1.92	DN3224TR-ND	737.28	8532-24LTR
100.0	0.208	1.30	DN3225CT-ND	3.54	3.03	2.02	DN3225TR-ND	775.68	8532-25LTR
120.0	0.283	1.12	DN3226CT-ND	3.54	3.03	2.02	DN3226TR-ND	775.68	8532-26LTR
150.0	0.330	1.04	DN3227CT-ND	3.54	3.03	2.02	—	—	8532-27LTR
180.0	0.362	0.99	DN3228CT-ND	3.54	3.03	2.02	DN3228TR-ND	775.68	8532-28LTR
220.0	0.505	0.84	DN3229CT-ND	3.54	3.03	2.02	DN3229TR-ND	775.68	8532-29LTR
270.0	0.557	0.80	DN3230CT-ND	3.54	3.03	2.02	DN3230TR-ND	775.68	8532-30LTR
390.0	0.770	0.68	DN3232CT-ND	3.54	3.03	2.02	—	—	8532-32LTR
560.0	1.14	0.56	DN3234CT-ND	3.54	3.03	2.02	DN3234TR-ND	775.68	8532-34LTR
680.0	1.50	0.49	DN3235CT-ND	3.54	3.03	2.02	DN3235TR-ND	775.68	8532-35LTR
820.0	1.98	0.42	DN3236CT-ND	3.54	3.03	2.02	—	—	8532-36LTR
1000.0	2.30	0.39	DN3237CT-ND	3.75	3.21	2.14	DN3237TR-ND	821.76	8532-37LTR
1200.0	2.55	0.37	DN3238CT-ND	3.75	3.21	2.14	DN3238TR-ND	821.76	8532-38LTR
1500.0	3.00	0.34	DN3239CT-ND	3.75	3.21	2.14	—	—	8532-39LTR
1800.0	4.00	0.30	DN3240CT-ND	3.75	3.21	2.14	DN3240TR-ND	821.76	8532-40LTR
2200.0	4.40	0.28	DN3241CT-ND	3.75	3.21	2.14	DN3241TR-ND	821.76	8532-41LTR
2700.0	5.80	0.25	DN3242CT-ND	3.75	3.21	2.14	DN3242TR-ND	821.76	8532-42LTR
3300.0	6.56	0.23	DN3243CT-ND	3.75	3.21	2.14	—	—	8532-43LTR
3900.0	8.63	0.20	DN3244CT-ND	3.75	3.21	2.14	DN3244TR-ND	821.76	8532-44LTR
4700.0	10.1	0.19	DN3245CT-ND	3.75	3.21	2.14	—	—	8532-45LTR
5600.0	11.2	0.18	DN3246CT-ND	3.75	3.21	2.14	DN3246TR-ND	821.76	8532-46LTR
6800.0	15.0	0.15	DN3247CT-ND	3.75	3.21	2.14	DN3247TR-ND	821.76	8532-47LTR
8200.0	20.8	0.13	DN3248CT-ND	3.75	3.21	2.14	DN3248TR-ND	821.76	8532-48LTR
10000.0	23.4	0.12	DN3249CT-ND	3.75	3.21	2.14	DN3249TR-ND	821.76	8532-49LTR
12000.0	26.0	0.12	DN3250CT-ND	3.75	3.21	2.14	DN3250TR-ND	821.76	8532-50LTR
15000.0	36.0	0.10	DN3251CT-ND	3.75	3.21	2.14	DN3251TR-ND	821.76	8532-51LTR
18000.0	40.0	0.09	DN3252CT-ND	3.75	3.21	2.14	—	—	8532-52LTR

Series SPD62 Shielded Surface Mount Inductors

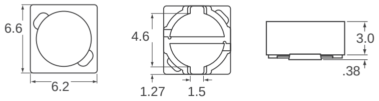

This low cost power choke is suitable for PDA, palmtop and other power management applications requiring small size, high current capacity and a shielded winding to reduce EMI/RFI. The flat top construction lends itself to auto-insertion. **Operating Temperature Range:** -55°C ~ 125°C

Induct. (µH) ± 20%	Test Freq. (KHz)	DC Resist. Max. (Ohms)	Curr. Rating Max. (Amps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500	API Delevan Part No.
1.2	100	0.040	3.50	DN7500CT-ND	1.51	1.29	.86	DN7500TR-ND	602.00/M	SPD62-122M
4.7	100	0.070	2.00	DN7503CT-ND	1.51	1.29	.86	DN7503TR-ND	602.00/M	SPD62-472M
6.8	100	0.080	1.80	DN7504CT-ND	1.51	1.29	.86	—	—	SPD62-682M
10	100	0.12	1.40	DN7505CT-ND	1.51	1.29	.86	DN7505TR-ND	602.00/M	SPD62-103M
12	100	0.13	1.30	DN7506CT-ND	1.51	1.29	.86	—	—	SPD62-123M
15	1.0	0.15	1.20	DN7507CT-ND	1.51	1.29	.86	DN7507TR-ND	700.00/M	SPD62-153M
18	1.0	0.19	1.10	DN7508CT-ND	1.51	1.29	.86	DN7508TR-ND	700.00/M	SPD62-183M
22	1.0	0.20	1.00	DN7509CT-ND	1.51	1.29	.86	DN7509TR-ND	602.00/M	SPD62-223M
27	1.0	0.25	0.94	DN7510CT-ND	1.51	1.29	.86	—	—	SPD62-273M
33	1.0	0.28	0.82	DN7511CT-ND	1.51	1.29	.86	DN7511TR-ND	602.00/M	SPD62-333M
39	1.0	0.40	0.78	DN7512CT-ND	1.51	1.29	.86	DN7512TR-ND	700.00/M	SPD62-393M
47	1.0	0.44	0.70	DN7513CT-ND	1.51	1.29	.86	DN7513TR-ND	602.00/M	SPD62-473M
56	1.0	0.51	0.68	DN7514CT-ND	1.51	1.29	.86	DN7514TR-ND	602.00/M	SPD62-563M
68	1.0	0.64	0.56	DN7515CT-ND	1.51	1.29	.86	DN7515TR-ND	602.00/M	SPD62-683M
82	1.0	0.71	0.50	DN7516CT-ND	1.51	1.29	.86	DN7516TR-ND	700.00/M	SPD62-823M
120	1.0	0.95	0.39	DN7518CT-ND	1.51	1.29	.86	DN7518TR-ND	602.00/M	SPD62-124M
150	1.0	1.07	0.37	DN7519CT-ND	1.51	1.29	.86	DN7519TR-ND	602.00/M	SPD62-154M
180	1.0	1.67	0.35	DN7520CT-ND	1.51	1.29	.86	—	—	SPD62-184M
270	1.0	2.77	0.29	DN7522CT-ND	1.51	1.29	.86	DN7522TR-ND	700.00/M	SPD62-274M
330	1.0	3.30	0.22	DN7523CT-ND	1.51	1.29	.86	—	—	SPD62-334M

Series DC780 High Current Power Line Chokes

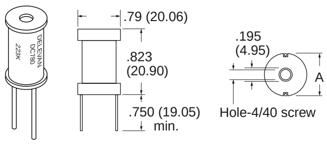

Mechanical Configuration: Ferrite bobbin protected with a flame retardant polyolefin sleeve. Center hole allows for mechanical mounting. Insulated bobbins. **Operating Temperature:** -55°C ~ 125°C, -55°C ~ 80°C @ full rated current

Nom. Induct. (µH)	Max. DCR (Ohms)	Max. Rated Current (ADC)	Dimension Inch (mm) A	Digi-Key Part No.	Price Each 1	10	50	API Delevan Part No.
Series DC780, ±15%								
1.0	0.003	11.4	.620 (15.748)	DN2400-ND	5.17	4.70	4.52	DC780-102L
1.2	0.003	11.4	.620 (15.748)	DN2401-ND	5.17	4.70	4.52	DC780-122L
1.5	0.003	11.4	.620 (15.748)	DN2402-ND	5.17	4.70	4.52	DC780-152L
1.8	0.003	11.4	.620 (15.748)	DN2403-ND	5.17	4.70	4.52	DC780-182L
2.2	0.004	11.4	.620 (15.748)	DN2404-ND	5.17	4.70	4.52	DC780-222L
2.7	0.005	11.4	.620 (15.748)	DN2405-ND	5.17	4.70	4.52	DC780-272L
3.3	0.005	11.4	.620 (15.748)	DN2406-ND	5.17	4.70	4.52	DC780-332L
3.9	0.005	11.4	.620 (15.748)	DN2407-ND	5.17	4.70	4.52	DC780-392L
4.7	0.005	11.4	.620 (15.748)	DN2408-ND	5.17	4.70	4.52	DC780-472L
5.6	0.006	11.4	.620 (15.748)	DN2409-ND	5.17	4.70	4.52	DC780-562L
6.8	0.007	11.4	.620 (15.748)	DN2410-ND	5.17	4.70	4.52	DC780-682L
8.2	0.007	11.4	.620 (15.748)	DN2411-ND	5.17	4.70	4.52	DC780-822L
Series DC780, ±10%								
10.0	0.009	11.4	.620 (15.748)	DN2412-ND	6.05	5.50	5.28	DC780-103K
12.0	0.009	11.4	.620 (15.748)	DN2413-ND	6.05	5.50	5.28	DC780-123K
15.0	0.013	9.0	.625 (15.875)	DN2414-ND	6.05	5.50	5.28	DC780-153K
18.0	0.018	7.2	.630 (16.002)	DN2415-ND	6.05	5.50	5.28	DC780-183K
22.0	0.019	7.2	.630 (16.002)	DN2416-ND	6.05	5.50	5.28	DC780-223K
33.0	0.029	5.5	.546 (13.868)	DN2418-ND	6.05	5.50	5.28	DC780-333K
39.0	0.030	5.5	.594 (15.087)	DN2419-ND	6.05	5.50	5.28	DC780-393K
47.0	0.035	5.5	.625 (15.875)	DN2420-ND	6.05	5.50	5.28	DC780-473K
56.0	0.039	5.5	.625 (15.875)	DN2421-ND	6.05	5.50	5.28	DC780-563K
68.0	0.053	4.8	.656 (16.662)	DN2422-ND	6.05	5.50	5.28	DC780-683K
82.0	0.060	4.8	.656 (16.662)	DN2423-ND	6.05	5.50	5.28	DC780-823K
100	0.080	4.0	.593 (15.062)	DN2424-ND	6.05	5.50	5.28	DC780-104K
120	0.090	4.0	.593 (15.062)	DN2425-ND	6.05	5.50	5.28	DC780-124K
150	0.098	4.0	.593 (15.062)	DN2426-ND	6.05	5.50	5.28	DC780-154K
180	0.110	4.0	.593 (15.062)	DN2427-ND	7.70	7.00	6.72	DC780-184K
220	0.150	2.8	.593 (15.062)	DN2428-ND	7.70	7.00	6.72	DC780-224K
330	0.305	1.6	.590 (14.986)	DN2430-ND	7.70	7.00	6.72	DC780-334K
390	0.320	1.6	.590 (14.986)	DN2431-ND	7.70	7.00	6.72	DC780-394K
470	0.355	1.6	.590 (14.986)	DN2432-ND	7.70	7.00	6.72	DC780-474K
560	0.388	1.6	.590 (14.986)	DN2433-ND	7.70	7.00	6.72	DC780-564K
680	0.430	1.6	.590 (14.986)	DN2434-ND	7.70	7.00	6.72	DC780-684K
820	0.590	1.3	.590 (14.986)	DN2435-ND	7.70	7.00	6.72	DC780-824K
1000	0.818	1.0	.590 (14.986)	DN2436-ND	7.70	7.00	6.72	DC780-105K
1200	1.140	0.8	.590 (14.986)	DN2437-ND	7.70	7.00	6.72	DC780-125K
1500	1.260	0.8	.590 (14.986)	DN2438-ND	7.70	7.00	6.72	DC780-155K
1800	1.390	0.8	.590 (14.986)	DN2439-ND	7.70	7.00	6.72	DC780-185K
2200	1.540	0.8	.590 (14.986)	DN2440-ND	7.70	7.00	6.72	DC780-225K

(Continued)

Series CM9900 PC Mount Common Mode Chokes

Operating Temperature Range: -55°C ~ 125°C **Current Rating at 80°C Ambient:** 40°C Rise **Mechanical Configuration:** Tape wrapped winding sections; varnish impregnated assembly

Notes: (1) Leakage inductance tested at L1 with L2 shorted or at L2 with L1 shorted (2) Windings balanced within 1%

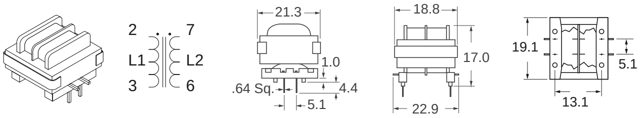

Inductance (µH) L1 or L2	Current Rating Max. (Amps)	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
820	1.1	DN4614-ND	4.48	3.49	2.99	CM9900-824
2200	.55	DN4619-ND	4.48	3.49	2.99	CM9900-225

Series CM6149 Surface Mount Low Profile Common Mode Choke / Isolation Transformer

Operating Temperature Range: –55°C ~ 105°C **Electrical Characteristics:** Measured @ 25°C **Maximum Power Dissipation @ 25°C:** .200W

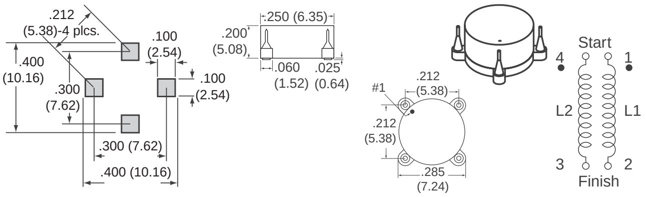

Inductance ±25% (µH) L1 or L2	Max. DCR (Ohms)	Rated RMS Current (Amps DC) Max.	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
25	.010	3.0	DN12825-ND	11.90	10.20	6.80	CM6149-253
47	.015	2.5	DN12826-ND	11.90	10.20	6.80	CM6149-473
68	.020	2.0	DN12827-ND	11.90	10.20	6.80	CM6149-683
100	.030	1.6	DN12828-ND	11.90	10.20	6.80	CM6149-104
150	.040	1.3	DN12829-ND	11.90	10.20	6.80	CM6149-154
220	.060	1.0	DN12830-ND	11.90	10.20	6.80	CM6149-224
330	.090	.75	DN12831-ND	13.37	11.46	7.64	CM6149-334
1200	.350	.30	DN12835-ND	13.37	11.46	7.64	CM6149-125
1500	.500	.24	DN12836-ND	14.00	12.00	8.00	CM6149-155
2200	.750	.18	DN12837-ND	14.00	12.00	8.00	CM6149-225

Series CM6350 Surface Mount Common Mode Choke

Operating Temperature Range: –55°C ~ 105°C **Electrical Characteristics:** Measured @ 25°C **Maximum Power Dissipation @ 25°C:** .400W

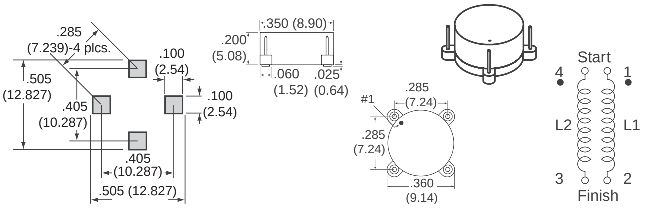

Inductance ±25% (µH) L1 or L2	Max. DCR (Ohms)	Rated RMS Current (Amps) Max.	Digi-Key Part No.	Price Each 1	10	100	API Delevan Part No.
33	0.007	5.50	DN12838-ND	6.69	5.73	3.82	CM6350-333
47	0.008	5.00	DN12839-ND	6.69	5.73	3.82	CM6350-473
68	0.010	4.20	DN12840-ND	6.69	5.73	3.82	CM6350-683
100	0.014	3.30	DN12841-ND	6.69	5.73	3.82	CM6350-104
220	0.027	2.20	DN12843-ND	6.83	5.85	3.90	CM6350-224
330	0.040	1.80	DN12844-ND	6.83	5.85	3.90	CM6350-334
470	0.060	1.50	DN12845-ND	6.83	5.85	3.90	CM6350-474
680	0.090	1.20	DN12846-ND	6.83	5.85	3.90	CM6350-684
1000	0.130	0.90	DN12847-ND	6.83	5.85	3.90	CM6350-105
1500	0.190	0.75	DN12848-ND	7.39	6.33	4.22	CM6350-155
2200	0.300	0.60	DN12849-ND	7.39	6.33	4.22	CM6350-225
3300	0.550	0.40	DN12850-ND	16.03	13.74	9.16	CM6350-335
4700	1.050	0.25	DN12851-ND	7.39	6.33	4.22	CM6350-475

Series 4426 Surface Mount Air Core Inductors

High Q, wire wound air cores designed to operate over a wide frequency range. Flat cap top is suitable for automatic placement. **Operating Temperature Range:** -55°C ~ 125°C

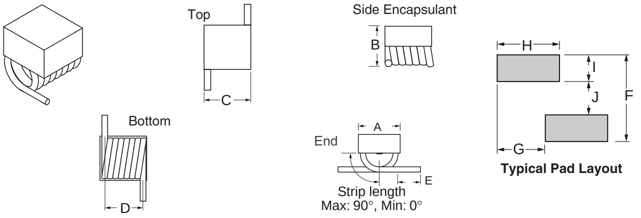

	Size A		Size B	
	(inch)	(mm)	(inch)	(mm)
A Max.	.120	3.05	.120	3.05
B Max.	.125	3.18	.125	3.18
C Max.	.145	3.68	.270	6.86
D	.115±.010	2.92±.25	.230±.010	5.84±.25
E	.05±.015	1.27±.38	.05±.015	1.27±.38
F	.165	4.19	.285	7.23
G	.110	2.79	.110	2.79
H	.130	3.30	.130	3.30
I	.050	1.27	.050	1.27
J	.065	1.65	.185	4.69

Size Code	Induct. (nH)	Turns	Q Min.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	API Delevan Part No.
Series 4426 Air Core Inductors											
A	2.5±10%	1	145	DN4001CT-ND	.60	.51	.34	DN4001TR-ND	650	218.40	4426-1
	5.0±10%	2	140	DN4002CT-ND	.60	.51	.34	DN4002TR-ND	650	218.40	4426-2
	8.0±5%	3	140	DN4003CT-ND	.60	.51	.34	DN4003TR-ND	650	218.40	4426-3
	12.5±5%	4	137	DN4004CT-ND	.60	.51	.34	DN4004TR-ND	650	218.40	4426-4
	18.5±5%	5	132	DN4005CT-ND	.74	.63	.42	DN4005TR-ND	650	218.40	4426-5
B	17.5±5%	6	100	DN4006CT-ND	.60	.51	.34	—	—	—	4426-6
	22.0±5%	7	102	DN4007CT-ND	.60	.51	.34	DN4007TR-ND	400	134.40	4426-7
	28.0±5%	8	105	DN4008CT-ND	.60	.51	.34	DN4008TR-ND	400	134.40	4426-8
	35.5±5%	9	112	DN4009CT-ND	.60	.51	.34	DN4009TR-ND	400	134.40	4426-9
	43.0±5%	11	106	DN4010CT-ND	.60	.51	.34	DN4010TR-ND	400	134.40	4426-10

4426KIT-ND (API Delevan Part No. 4426KIT)
Series 4426 Inductor Kit. 5 each of 10 values (2.5nH to 43nH), 50 total pieces...................... **$25.50**

Series SMB 2.5 Surface Mount Shield Beads

High resistivity ferrite material eliminates the need to insulate windings. Lead wire is plated copper. **Operating Temperature Range:** –40°C ~ 125°C

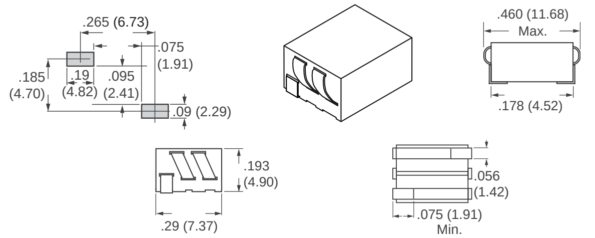

API Delevan Part No.	Turns	Minimum Impedance (Ohms) 10 MHz	100 MHz	150 MHz	220 MHz	Idc Max. (Amps)	DCR Max. (Ohms)
SMB2.5-1	2 1/2	210	385	400	375	9.5	0.005
SMB2.5-2	2 1/2	NA	490	635	650	9.5	0.005

Digi-Key Part No.	Cut Tape Price Each 10	50	100	Digi-Key Part No.	Tape & Reel Pricing 700	API Delevan Part No.
DN4700CT-ND	.77	.66	.44	DN4700TR-ND	246.40	SMB2.5-1
DN4701CT-ND	.77	.66	.44	DN4701TR-ND	246.40	SMB2.5-2

TDK Inductors

MLK, MLG and MLF Series

RoHS COMPLIANT

Dim. in mm

Fig. 1 MLK0603 (EIA0201)

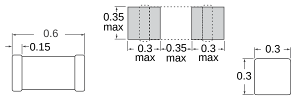

Fig. 2 MLK1005 (EIA0402)

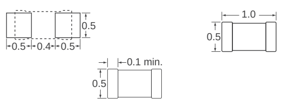

Fig. 3 MLG1608 (EIA0603)

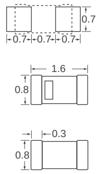

Fig. 4 MLF1608 (EIA0603)

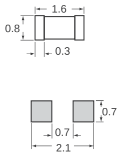

Fig. 5 MLF2012 (EIA0805)

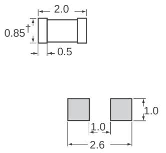

MLK Series: Supports operating frequency bands of up to 12GHz with nominal inductance values from 1 to 100nH. Provides high Q characteristics. Advanced monolithic structure is formed using a lamination and firing process with high-frequency ceramic and conductive materials. Because the part is non-polarized, it can be used in bulk cassette loaders. **Operating Temperature:** -25°C ~ 85°C

MLG Series: Supports operating frequency bands of up to 10GHz with nominal inductance values from 1 to 100nH. Provides high Q characteristics. Advanced monolithic structure is formed using a lamination and firing process with high-frequency ceramic and conductive materials. **Operating Temperature:** -25°C ~ 85°C

MLF Series - Magnetic Shielded Inductor: TDK's MLF multilayer chip inductor combines high performance with the most compact design available today. MLF inductor's multilayer technology utilizes ferrite paste and electric conductor paste layered in a monolithic structure. Sintering of ferrite and electric conductors forms a perfect closed magnetic circuit and a magnetic shield. Magnetic shielding is ideally suited for high density circuit application in disk drives, personal computers, measuring equipment, and telephone equipment. **Operating Temperature:** -25°C ~ 85°C

Inductance (nH)	Inductance Tol.	Test Freq. (MHz)	DC Res. max. (Ω)	Rated Current max. (mA)	SRF min. (GHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel§ Pricing 15,000	TDK Part No.
Fig. 1 — MLK0603											
1.0	±0.3nH	100	0.20	300	12.0	445-1570-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N0S
1.2	±0.3nH	100	0.25	300	11.0	445-1571-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N2S
1.5	±0.3nH	100	0.30	300	9.5	445-1572-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N5S
1.8	±0.3nH	100	0.35	300	8.5	445-1573-1-ND	.18	1.47	11.76	51.00/M	MLK0603L1N8S
2.2	±0.3nH	100	0.40	300	8.0	445-1574-1-ND	.18	1.47	11.76	51.00/M	MLK0603L2N2S
2.7	±0.3nH	100	0.45	300	7.5	445-1575-1-ND	.18	1.47	11.76	51.00/M	MLK0603L2N7S
3.3	±0.3nH	100	0.50	200	7.0	445-1576-1-ND	.18	1.47	11.76	51.00/M	MLK0603L3N3S
3.9	±0.3nH	100	0.55	200	6.5	445-1577-1-ND	.18	1.47	11.76	51.00/M	MLK0603L3N9S
4.7	±0.3nH	100	0.60	200	6.0	445-1578-1-ND	.18	1.47	11.76	51.00/M	MLK0603L4N7S
5.6	±0.3nH	100	0.70	200	5.7	445-1579-1-ND	.18	1.47	11.76	51.00/M	MLK0603L5N6S
6.8	±5%	100	0.80	200	5.5	445-1580-1-ND	.18	1.47	11.76	51.00/M	MLK0603L6N8J
8.2	±5%	100	0.90	200	5.0	445-1581-1-ND	.18	1.47	11.76	51.00/M	MLK0603L8N2J
10	±5%	100	1.00	200	4.7	445-1582-1-ND	.18	1.47	11.76	51.00/M	MLK0603L10NJ
12	±5%	100	1.10	150	4.3	445-1583-1-ND	.18	1.47	11.76	51.00/M	MLK0603L12NJ
15	±5%	100	1.20	150	4.0	445-1584-1-ND	.18	1.47	11.76	51.00/M	MLK0603L15NJ
18	±5%	100	1.40	100	3.7	445-1585-1-ND	.18	1.47	11.76	51.00/M	MLK0603L18NJ
22	±5%	100	1.60	100	3.5	445-1586-1-ND	.18	1.47	11.76	51.00/M	MLK0603L22NJ

Inductance (nH)	Inductance Tol.	Test Freq. (MHz)	DC Res. max. (Ω)	Rated Current max. (mA)	SRF min. (GHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel§ Pricing 10,000	TDK Part No.
Fig. 2 — MLK1005											
1	±0.3nH	100	0.1	300	12	445-1455-1-ND	.15	1.22	9.72	—	MLK1005S1N0S
1.2	±0.3nH	100	0.15	300	11	445-1456-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N2S
1.5	±0.3nH	100	0.16	300	9.5	445-1457-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N5S
1.8	±0.3nH	100	0.2	300	8.5	445-1458-1-ND	.15	1.22	9.72	42.53/M	MLK1005S1N8S
2.2	±0.3nH	100	0.21	300	8	445-1459-1-ND	.15	1.22	9.72	42.53/M	MLK1005S2N2S
2.7	±0.3nH	100	0.23	300	7.5	445-1460-1-ND	.15	1.22	9.72	42.53/M	MLK1005S2N7S
3.3	±0.3nH	100	0.25	300	7	445-1461-1-ND	.15	1.22	9.72	42.53/M	MLK1005S3N3S
3.9	±0.3nH	100	0.28	300	6.5	445-1462-1-ND	.15	1.22	9.72	42.53/M	MLK1005S3N9S
4.7	±0.3nH	100	0.32	300	6	445-1463-1-ND	.15	1.22	9.72	42.53/M	MLK1005S4N7S
5.6	±0.5nH	100	0.35	300	5.7	445-1464-1-ND	.15	1.22	9.72	42.53/M	MLK1005S5N6D
6.8	±0.5nH	100	0.38	300	5.5	445-1465-1-ND	.15	1.22	9.72	42.53/M	MLK1005S6N8D
8.2	±0.5nH	100	0.42	300	5	445-1466-1-ND	.15	1.22	9.72	42.53/M	MLK1005S8N2D
10	±5%	100	0.45	200	4.7	445-1467-1-ND	.15	1.22	9.72	42.53/M	MLK1005S10NJ
12	±5%	100	0.5	200	4.3	445-1468-1-ND	.15	1.22	9.72	42.53/M	MLK1005S12NJ
15	±5%	100	0.55	200	4	445-1469-1-ND	.15	1.22	9.72	42.53/M	MLK1005S15NJ
18	±5%	100	0.65	200	3.7	445-1470-1-ND	.15	1.22	9.72	42.53/M	MLK1005S18NJ
22	±5%	100	0.75	200	3.5	445-1471-1-ND	.15	1.22	9.72	42.53/M	MLK1005S22NJ
27	±5%	100	0.95	200	3	445-1472-1-ND	.15	1.22	9.72	42.53/M	MLK1005S27NJ
33	±5%	100	1.1	200	2.5	445-1473-1-ND	.15	1.22	9.72	42.53/M	MLK1005S33NJ
39	±5%	100	1.2	100	2	445-1474-1-ND	.15	1.22	9.72	—	MLK1005S39NJ
47	±5%	100	1.3	100	1.8	445-1475-1-ND	.15	1.22	9.72	42.53/M	MLK1005S47NJ
56	±5%	100	1.4	100	1.5	445-1476-1-ND	.15	1.22	9.72	42.53/M	MLK1005S56NJ
68	±5%	100	1.6	100	1.2	445-1477-1-ND	.15	1.22	9.72	42.53/M	MLK1005S68NJ
82	±5%	100	1.8	50	1	445-1478-1-ND	.15	1.22	9.72	42.53/M	MLK1005S82NJ
100	±5%	100	2.2	50	0.8	445-1479-1-ND	.15	1.22	9.72	42.53/M	MLK1005SR10J

Inductance (nH)	Inductance Tol.	Test Freq. (MHz)	DC Res. max. (Ω)	Rated Current max. (mA)	SRF min. (GHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel§ Pricing 4,000	TDK Part No.
Fig. 3 — MLG1608											
1	±0.3nH	100	0.1	300	10	445-1480-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N0S
1.2	±0.3nH	100	0.1	300	10	445-1481-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N2S
1.5	±0.3nH	100	0.1	300	10	445-1482-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N5S
1.8	±0.3nH	100	0.1	300	9.8	445-1483-1-ND	.16	1.34	10.68	46.73/M	MLG1608B1N8S
2.2	±0.3nH	100	0.15	300	7.6	445-1484-1-ND	.16	1.34	10.68	46.73/M	MLG1608B2N2S
2.7	±0.3nH	100	0.15	300	7	445-1485-1-ND	.16	1.34	10.68	46.73/M	MLG1608B2N7S
3.3	±0.3nH	100	0.2	300	6.2	445-1486-1-ND	.16	1.34	10.68	46.73/M	MLG1608B3N3S
3.9	±0.3nH	100	0.2	300	5.6	445-1487-1-ND	.16	1.34	10.68	46.73/M	MLG1608B3N9S
4.7	±0.3nH	100	0.2	300	4.8	445-1488-1-ND	.16	1.34	10.68	46.73/M	MLG1608B4N7S
5.6	±0.5nH	100	0.2	300	4.6	445-1489-1-ND	.16	1.34	10.68	46.73/M	MLG1608B5N6D
6.8	±0.5nH	100	0.2	300	4.2	445-1490-1-ND	.16	1.34	10.68	46.73/M	MLG1608B6N8D
8.2	±0.5nH	100	0.25	300	3.6	445-1491-1-ND	.16	1.34	10.68	46.73/M	MLG1608B8N2D
10	±5%	100	0.25	300	3.2	445-1492-1-ND	.16	1.34	10.68	46.73/M	MLG1608B10NJ
12	±5%	100	0.3	300	2.8	445-1493-1-ND	.16	1.34	10.68	46.73/M	MLG1608B12NJ
15	±5%	100	0.35	300	2.6	445-1494-1-ND	.16	1.34	10.68	46.73/M	MLG1608B15NJ
18	±5%	100	0.4	300	2.4	445-1495-1-ND	.16	1.34	10.68	46.73/M	MLG1608B18NJ
22	±5%	100	0.5	300	2	445-1496-1-ND	.16	1.34	10.68	46.73/M	MLG1608B22NJ
27	±5%	100	0.55	300	1.9	445-1497-1-ND	.16	1.34	10.68	46.73/M	MLG1608B27NJ
33	±5%	100	0.6	300	1.6	445-1498-1-ND	.16	1.34	10.68	46.73/M	MLG1608B33NJ
39	±5%	100	0.65	300	1.4	445-1499-1-ND	.16	1.34	10.68	46.73/M	MLG1608B39NJ
47	±5%	100	0.7	300	1.2	445-1500-1-ND	.16	1.34	10.68	46.73/M	MLG1608B47NJ
56	±5%	100	0.75	300	1	445-1501-1-ND	.16	1.34	10.68	46.73/M	MLG1608B56NJ
68	±5%	100	0.8	300	0.9	445-1502-1-ND	.16	1.34	10.68	46.73/M	MLG1608B68NJ
82	±5%	100	0.9	300	0.8	445-1503-1-ND	.16	1.34	10.68	46.73/M	MLG1608B82NJ
100	±5%	100	1	300	0.7	445-1504-1-ND	.16	1.34	10.68	46.73/M	MLG1608BR10J

Inductance (μH)	Inductance Tol.	Test Freq. (MHz)	DC Res. max. (Ω)	Rated Current max. (mA)	SRF min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel§ Pricing 4,000	TDK Part No.
Fig. 4 — MLF1608											
0.047	±20%	50	0.3	50	260	445-1000-1-ND	.41	3.40	27.20	119.00/M	MLF1608D47NM
0.068	±20%	50	0.3	50	250	445-1001-1-ND	.41	3.40	27.20	119.00/M	MLF1608D68NM
0.082	±20%	50	0.3	50	245	445-1002-1-ND	.41	3.40	27.20	119.00/M	MLF1608D82NM
0.1	±10%	25	0.5	50	240	445-1003-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR10K
0.12	±10%	25	0.5	50	205	445-1004-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR12K
0.15	±10%	25	0.6	50	180	445-1005-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR15K
0.18	±10%	25	0.6	50	165	445-1006-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR18K
0.22	±10%	25	0.8	50	150	445-1007-1-ND	.39	3.28	26.24	114.80/M	MLF1608DR22K
0.27	±10%	25	0.8	50	136	445-1008-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR27K
0.33	±10%	25	0.85	35	125	445-1009-1-ND	.39	3.28	26.24	114.80/M	MLF1608DR33K
0.39	±10%	25	1	35	110	445-1010-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR39K
0.47	±10%	25	1.35	35	105	445-1011-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR47K
0.56	±10%	25	1.55	35	95	445-1012-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR56K
0.68	±10%	25	1.7	35	90	445-1013-1-ND	.41	3.40	27.20	119.00/M	MLF1608DR68K
1.2	±10%	10	0.8	25	65	445-1014-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R2K
1.5	±10%	10	0.8	25	60	445-1015-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R5K
1.8	±10%	10	0.95	25	55	445-1016-1-ND	.41	3.40	27.20	119.00/M	MLF1608A1R8K
2.2	±10%	10	1.15	15	50	445-1017-1-ND	.41	3.40	27.20	119.00/M	MLF1608A2R2K
2.7	±10%	10	1.35	15	45	445-1018-1-ND	.41	3.40	27.20	119.00/M	MLF1608A2R7K
3.3	±10%	10	1.55	15	40	445-1019-1-ND	.41	3.40	27.20	119.00/M	MLF1608A3R3K
3.9	±10%	10	1.7	15	35	445-1020-1-ND	.44	4.08	34.00	—	MLF1608A3R9K
4.7	±10%	10	2.1	15	33	445-1021-1-ND	.41	3.40	27.20	119.00/M	MLF1608A4R7K
5.6	±10%	4	1.55	5	22	445-1022-1-ND	.39	3.28	26.24	114.80/M	MLF1608E5R6K
6.8	±10%	4	1.7	5	20	445-1023-1-ND	.41	3.40	27.20	119.00/M	MLF1608E6R8K
8.2	±10%	4	2.1	5	18	445-1024-1-ND	.41	3.40	27.20	119.00/M	MLF1608E8R2K
10	±10%	2	1.85	3	17	445-1025-1-ND	.41	3.40	27.20	119.00/M	MLF1608E100K
12	±10%	2	2.1	3	15	445-1026-1-ND	.41	3.40	27.20	—	MLF1608E120K
15	±10%	1	1.7	1	14	445-1027-1-ND	.41	3.40	27.20	119.00/M	MLF1608C150K
18	±10%	1	1.85	1	13	445-1028-1-ND	.41	3.40	27.20	119.00/M	MLF1608C180K
22	±10%	1	2.1	1	11	445-1029-1-ND	.41	3.40	27.20	119.00/M	MLF1608C220K
27	±10%	1	2.75	1	10	445-1030-1-ND	.41	3.40	27.20	119.00/M	MLF1608C270K
33	±10%	1	2.95	1	9	445-1031-1-ND	.41	3.40	27.20	119.00/M	MLF1608C330K
Fig. 5 — MLF2012											
0.047	±20%	50	0.2	300	320	445-1032-1-ND	.41	3.40	27.20	119.00/M	MLF2012D47NM
0.082	±20%	50	0.2	300	255	445-1034-1-ND	.41	3.40	27.20	119.00/M	MLF2012D82NM
0.1	±10%	25	0.3	250	235	445-1035-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR10K
0.12	±10%	25	0.3	250	220	445-1036-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR12K
0.15	±10%	25	0.4	250	200	445-1037-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR15K
0.22	±10%	25	0.5	250	170	445-1039-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR22K
0.27	±10%	25	0.5	250	150	445-1040-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR27K
0.33	±10%	25	0.55	250	145	445-1041-1-ND	.41	3.40	27.20	119.00/M	MLF2012DR33K
0.39	±10%	25	0.65	200	135	445-1042-1-ND	.43	3.94	32.80	—	MLF2012DR39K
1	±10%	10	0.4	50	75	445-1047-1-ND	.39	3.28	26.24	114.80/M	MLF2012A1R0K
1.2	±10%	10	0.5	50	65	445-1048-1-ND	.41	3.40	27.20	119.00/M	MLF2012A1R2K
1.8	±10%	10	0.6	50	55	445-1050-1-ND	.41	3.40	27.20	119.00/M	MLF2012A1R8K
2.2	±10%	10	0.65	30	50	445-1051-1-ND	.39	3.28	26.24	114.80/M	MLF2012A2R2K

Inductance (μH)	Inductance Tol.	Test Freq. (MHz)	DC Res. max. (Ω)	Rated Current max. (mA)	SRF min. (MHz)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel§ Pricing 2,000	TDK Part No.
Fig. 5 — MLF2012											
0.47	±10%	25	0.65	200	125	445-1043-1-ND†	.39	3.28	26.24	114.80/M	MLF2012DR47K
0.56	±10%	25	0.75	150	115	445-1044-1-ND†	.41	3.40	27.20	119.00/M	MLF2012DR56K
0.68	±10%	25	0.8	150	105	445-1045-1-ND†	.39	3.28	26.24	114.80/M	MLF2012DR68K
0.82	±10%	25	1	150	100	445-1046-1-ND†	.41	3.40	27.20	119.00/M	MLF2012DR82K
2.7	±10%	10	0.75	30	45	445-1052-1-ND†	.41	3.40	27.20	119.00/M	MLF2012A2R7K
3.3	±10%	10	0.8	30	41	445-1053-1-ND†	.41	3.40	27.20	119.00/M	MLF2012A3R3K
4.7	±10%	10	1	30	35	445-1055-1-ND†	.39	3.28	26.24	114.80/M	MLF2012A4R7K
5.6	±10%	4	0.9	15	32	445-1056-1-ND†	.41	3.40	27.20	119.00/M	MLF2012E5R6K
6.8	±10%	4	1	15	29	445-1057-1-ND†	.41	3.40	27.20	119.00/M	MLF2012E6R8K
10	±10%	2	1.15	15	24	445-1059-1-ND†	.39	3.28	26.24	114.80/M	MLF2012E100K
12	±10%	2	1.25	15	22	445-1060-1-ND†	.41	3.40	27.20	119.00/M	MLF2012E120K
15	±10%	1	0.8	5	19	445-1061-1-ND†	.41	3.40	27.20	119.00/M	MLF2012C150K
18	±10%	1	0.9	5	18	445-1062-1-ND†	.41	3.40	27.20	119.00/M	MLF2012C180K
22	±10%	1	1.1	5	16	445-1063-1-ND†	.41	3.40	27.20	119.00/M	MLF2012C220K
27	±10%	1	1.15	5	14	445-1064-1-ND†	.41	3.40	27.20	119.00/M	MLF2012C270K
33	±10%	0.4	1.25	5	13	445-1065-1-ND†	.41	3.40	27.20	119.00/M	MLF2012C330K
39	±10%	2	2.9	4	8	445-1066-1-ND†	.41	3.40	27.20	119.00/M	MLF2012K390K
47	±10%	2	3	4	7.5	445-1067-1-ND†	.39	3.28	26.24	—	MLF2012K470K
68	±10%	1	2.9	2	6.5	445-1069-1-ND†	.41	3.40	27.20	119.00/M	MLF2012C680K
100	±10%	1	3.1	2	5.5	445-1071-1-ND†	.41	3.40	27.20	119.00/M	MLF2012C101K

§ For Tape and Reel part number, change 1-ND to 2-ND. † Thickness is 1.25mm

TDK Inductors

NLFC, NLV, NLCV, NLFV and NLC Series

NLFC Series: This product has good heat durability that withstands lead-free compatible reflow soldering conditions. Lead-free materials are used for the plating on the terminal. The NLFC series features magnetic shielding and is recommended for power supply line applications. DCR: ±30% **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

NLV Series: This product supports lead-free solder reflow condition. Lead-free materials are used to terminal plating. This product uses metal terminal, therefore it is high connection reliability. They are wire wound. **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

NLCV Series: Lead-free materials are used to terminal plating in this product. **Applications:** • Universal inductance circuit use • AV components • Car electronics • IT equipment This series is a large current type: 1.0 to 33 µH (NLCV32: 1.0 to 330 µH) DCR: ±30% **Operating Temperature:** -40°C ~ 85°C (-40°F ~ 185°F)

NLFV Series: Provides low DC resistance while using 252018 size winding construction. **Applications:** • PCs • Hard disk drives • Other types of electronics DCR: ±20% **Operating Temperature:** -20°C ~ 85°C (-4°F ~ 185°F)

NLC4532 Series: Designed to be used on power lines and support rated current in the range from 90 to 150mA. NLC Series has only half as much DC resistance and twice as much DC current. **Operating Temperature:** -40°C ~ 105°C (-40°F ~ 221°F)

Dim. in mm.

Fig. 1 — NLFC2016 (EIA0805)

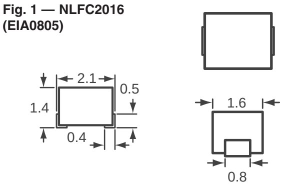

Fig. 2 — NLV32T and NLCV32T (EIA1210)

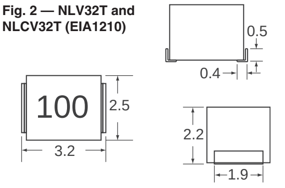

Fig. 3 — NLCV25T, NLFV25 and NLV25T (EIA1008)

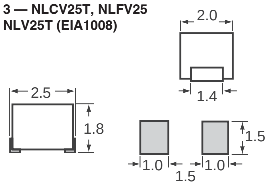

Fig. 4 — NLC4532 (EIA1812)

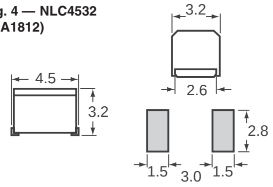

Inductance (µH)	Inductance Tol.	Test Freq. (MHz)	DC Res. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel§ Pricing 2,000	TDK Part No.
Fig. 1 — NLFC2016 Series											
1.0	±20%	7.96	0.16	300	100	445-1897-1-ND	.65	.60	.50	180.00/M	NLFC201614T-1R0M-PF
2.2		7.96	0.23	240	80	445-1899-1-ND	.65	.60	.50	180.00/M	NLFC201614T-2R2M-PF
4.7		7.96	0.4	150	45	445-1900-1-ND	.65	.60	.50	180.00/M	NLFC201614T-4R7M-PF
10	±10%	2.52	0.7	120	32	445-1896-1-ND	.65	.60	.50	180.00/M	NLFC201614T-100K-PF
22		2.52	1.7	75	16	445-1898-1-ND	.65	.60	.50	180.00/M	NLFC201614T-220K-PF
Fig. 2 — NLV32T Series											
0.010	±5%	100	0.13	450	2500	445-1505-1-ND	.29	.25	.20	84.53/M	NLV32T-010J-PF
0.015		100	0.16	450	2100	445-1506-1-ND	.29	.25	.20	84.53/M	NLV32T-015J-PF
0.047		100	0.30	450	1200	445-1509-1-ND	.29	.25	.20	84.53/M	NLV32T-047J-PF
0.10		100	0.44	450	700	445-1511-1-ND	.29	.25	.20	—	NLV32T-R10J-PF
0.15		25.2	0.25	450	450	445-1512-1-ND	.29	.25	.20	84.53/M	NLV32T-R15J-PF
0.22	±5%	25.2	0.32	450	350	445-1513-1-ND	.29	.25	.20	84.53/M	NLV32T-R22J-PF
0.33		25.2	0.40	450	300	445-1514-1-ND	.29	.25	.20	84.53/M	NLV32T-R33J-PF
0.47		25.2	0.50	450	220	445-1515-1-ND	.29	.25	.20	86.94/M	NLV32T-R47J-PF
0.68		25.2	0.60	450	160	445-1516-1-ND	.29	.25	.20	84.53/M	NLV32T-R68J-PF
1.0		7.96	0.70	400	120	445-1517-1-ND	.29	.25	.20	84.53/M	NLV32T-1R0J-PF
1.5	±5%	7.96	0.85	370	85	445-1518-1-ND	.29	.25	.20	—	NLV32T-1R5J-PF
2.2		7.96	1.00	320	75	445-1519-1-ND	.29	.25	.20	84.53/M	NLV32T-2R2J-PF
3.3		7.96	1.20	260	60	445-1520-1-ND	.29	.25	.20	84.53/M	NLV32T-3R3J-PF
4.7		7.96	1.50	220	50	445-1521-1-ND	.29	.25	.20	84.53/M	NLV32T-4R7J-PF
6.8		7.96	1.80	180	40	445-1522-1-ND	.29	.25	.20	—	NLV32T-6R8J-PF
10	±5%	2.52	2.10	150	30	445-1523-1-ND	.29	.25	.20	84.53/M	NLV32T-100J-PF
22		2.52	3.70	110	20	445-1525-1-ND	.29	.25	.20	84.53/M	NLV32T-220J-PF
33		2.52	5.60	70	17	445-1526-1-ND	.29	.25	.20	—	NLV32T-330J-PF
47		2.52	7.00	60	15	445-1527-1-ND	.29	.25	.20	84.53/M	NLV32T-470J-PF
68		2.52	9.00	50	12	445-1528-1-ND	.29	.25	.20	84.53/M	NLV32T-680J-PF
100	±5%	0.796	10.00	40	10	445-1529-1-ND	.29	.25	.20	84.53/M	NLV32T-101J-PF
150		0.796	15.00	65	8	445-1530-1-ND	.29	.25	.20	—	NLV32T-151J-PF
220		0.796	21.00	50	7	445-1531-1-ND	.29	.25	.20	84.53/M	NLV32T-221J-PF
330		0.796	34.00	40	5	445-1532-1-ND	.29	.25	.20	84.53/M	NLV32T-331J-PF
470		0.796	40.00	25	4	445-1533-1-ND	.29	.25	.20	84.53/M	NLV32T-471J-PF
Fig. 2 — NLCV32T Series											
1.0	±20%	7.96	0.08	850	100	445-1534-1-ND	.29	.25	.20	84.53/M	NLCV32T-1R0M-PF
1.5		7.96	0.11	700	80	445-1535-1-ND	.29	.25	.20	84.53/M	NLCV32T-1R5M-PF
2.2		7.96	0.13	600	68	445-1536-1-ND	.29	.25	.20	84.53/M	NLCV32T-2R2M-PF
3.3		7.96	0.16	500	54	445-1537-1-ND	.29	.25	.20	84.53/M	NLCV32T-3R3M-PF
10	±10%	2.52	0.36	300	30	445-1538-1-ND	.29	.25	.20	84.53/M	NLCV32T-100K-PF
15		2.52	0.56	250	26	445-1539-1-ND	.29	.25	.20	84.53/M	NLCV32T-150K-PF
22		2.52	0.77	210	21	445-1540-1-ND	.29	.25	.20	84.53/M	NLCV32T-220K-PF
33		2.52	1.10	170	17	445-1541-1-ND	.29	.25	.20	84.53/M	NLCV32T-330K-PF
47		2.52	1.64	150	14	445-1542-1-ND	.29	.25	.20	84.53/M	NLCV32T-470K-PF
100	±10%	0.796	3.70	100	10	445-1543-1-ND	.29	.25	.20	84.53/M	NLCV32T-101K-PF
150		0.796	6.10	85	8	445-1544-1-ND	.29	.25	.20	84.53/M	NLCV32T-151K-PF
220		0.796	8.40	70	7	445-1545-1-ND	.29	.25	.20	84.53/M	NLCV32T-221K-PF
330		0.796	12.3	60	6	445-1546-1-ND	.29	.25	.20	84.53/M	NLCV32T-331K-PF
Fig. 3 — NLV25T Series											
0.01	±5%	100	0.26	530	2150	445-1701-1-ND	.27	.23	.18	77.70/M	NLV25T-010J-PF
0.012		100	0.27	500	2050	445-1702-1-ND	.27	.23	.18	78.00/M	NLV25T-012J-PF
0.015		100	0.29	480	2000	445-1703-1-ND	.27	.23	.18	78.00/M	NLV25T-015J-PF
0.018		100	0.31	450	1850	445-1704-1-ND	.27	.23	.18	78.00/M	NLV25T-018J-PF
0.022	±5%	100	0.37	420	1650	445-1705-1-ND	.27	.23	.18	77.70/M	NLV25T-022J-PF
0.027		100	0.4	410	1550	445-1706-1-ND	.28	.23	.19	80.24/M	NLV25T-027J-PF
0.033		100	0.42	400	1450	445-1707-1-ND	.39	.33	.26	113.75/M	NLV25T-033J-PF
0.039		100	0.45	380	1350	445-1708-1-ND	.27	.23	.18	77.70/M	NLV25T-039J-PF
0.047		100	0.5	360	1200	445-1709-1-ND	.39	.33	.26	113.75/M	NLV25T-047J-PF
0.056	±5%	100	0.6	340	1100	445-1710-1-ND	.28	.23	.19	80.00/M	NLV25T-056J-PF
0.068		100	0.65	320	1050	445-1711-1-ND	.39	.33	.26	113.75/M	NLV25T-068J-PF
0.082		100	0.75	300	900	445-1712-1-ND	.28	.23	.19	80.24/M	NLV25T-082J-PF
0.1		100	0.8	280	800	445-1713-1-ND	.27	.23	.18	77.70/M	NLV25T-R10J-PF
0.12		25.2	0.3	550	700	445-1714-1-ND	.27	.23	.18	77.70/M	NLV25T-R12J-PF
0.15	±5%	25.2	0.35	500	550	445-1715-1-ND	.27	.23	.18	77.70/M	NLV25T-R15J-PF
0.18		25.2	0.4	460	500	445-1716-1-ND	.27	.23	.18	77.70/M	NLV25T-R18J-PF
0.22		25.2	0.5	430	450	445-1717-1-ND	.27	.23	.18	77.70/M	NLV25T-R22J-PF
0.27		25.2	0.55	420	425	445-1718-1-ND	.27	.23	.18	77.70/M	NLV25T-R27J-PF
0.33		25.2	0.6	400	400	445-1719-1-ND	.27	.23	.18	77.70/M	NLV25T-R33J-PF
0.39	±5%	25.2	0.65	375	375	445-1720-1-ND	.27	.23	.18	77.70/M	NLV25T-R39J-PF
0.47		25.2	0.68	350	350	445-1721-1-ND	.27	.23	.18	77.70/M	NLV25T-R47J-PF
0.56		25.2	0.75	325	325	445-1722-1-ND	.27	.23	.18	77.70/M	NLV25T-R56J-PF
0.68		25.2	0.85	300	300	445-1723-1-ND	.27	.23	.18	77.70/M	NLV25T-R68J-PF
0.82		25.2	1	260	260	445-1724-1-ND	.27	.23	.18	77.70/M	NLV25T-R82J-PF
1.0	±5%	7.96	1.1	245	245	445-1725-1-ND	.27	.23	.18	77.70/M	NLV25T-1R0J-PF
1.2		7.96	1.2	230	230	445-1726-1-ND	.27	.23	.18	77.70/M	NLV25T-1R2J-PF
1.5		7.96	1.3	220	182	445-1727-1-ND	.27	.23	.18	77.70/M	NLV25T-1R5J-PF
1.8		7.96	1.45	210	135	445-1728-1-ND	.27	.23	.18	77.70/M	NLV25T-1R8J-PF
2.2		7.96	1.55	200	105	445-1729-1-ND	.27	.23	.18	77.70/M	NLV25T-2R2J-PF
2.7	±5%	7.96	1.7	195	70	445-1730-1-ND	.27	.23	.18	77.70/M	NLV25T-2R7J-PF
3.3		7.96	1.9	185	55	445-1731-1-ND	.27	.23	.18	77.70/M	NLV25T-3R3J-PF
3.9		7.96	2.1	180	48	445-1732-1-ND	.27	.23	.18	77.70/M	NLV25T-3R9J-PF
4.7		7.96	2.3	175	43	445-1733-1-ND	.27	.23	.18	77.70/M	NLV25T-4R7J-PF
5.6		7.96	2.5	170	42	445-1734-1-ND	.27	.23	.18	77.70/M	NLV25T-5R6J-PF
6.8	±5%	7.96	2.7	165	39	445-1735-1-ND	.27	.23	.18	77.70/M	NLV25T-6R8J-PF
8.2		7.96	3.05	160	36	445-1736-1-ND	.27	.23	.18	77.70/M	NLV25T-8R2J-PF
10		2.52	3.5	155	33	445-1737-1-ND	.27	.23	.18	77.70/M	NLV25T-100J-PF
12		2.52	3.8	150	30	445-1738-1-ND	.27	.23	.18	77.70/M	NLV25T-120J-PF
15		2.52	4.4	140	26	445-1739-1-ND	.27	.23	.18	77.70/M	NLV25T-150J-PF
18	±5%	2.52	4.8	130	24	445-1740-1-ND	.27	.23	.18	77.70/M	NLV25T-180J-PF
22		2.52	5.5	125	22	445-1741-1-ND	.27	.23	.18	77.70/M	NLV25T-220J-PF
27		2.52	6.3	115	21	445-1742-1-ND	.27	.23	.18	77.70/M	NLV25T-270J-PF
33		2.52	7.1	110	20	445-1743-1-ND	.27	.23	.18	77.70/M	NLV25T-330J-PF
39		2.52	9.5	90	18	445-1744-1-ND	.27	.23	.18	77.70/M	NLV25T-390J-PF
47	±5%	2.52	11.1	80	17	445-1745-1-ND	.27	.23	.18	77.70/M	NLV25T-470J-PF
56		2.52	12.1	75	16	445-1746-1-ND	.27	.23	.18	77.70/M	NLV25T-560J-PF
68		2.52	16.6	70	15	445-1747-1-ND	.27	.23	.18	77.70/M	NLV25T-680J-PF
82		2.52	19	66	13	445-1748-1-ND	.27	.23	.18	77.70/M	NLV25T-820J-PF
100		0.796	21	60	12	445-1749-1-ND	.27	.23	.18	77.70/M	NLV25T-101J-PF
Fig. 3 — NLCV25T Series											
1.0	±20%	7.96	0.34	475	200	445-1752-1-ND	.27	.23	.18	77.70/M	NLCV25T-1R0M-PF
1.5		7.96	0.42	435	165	445-1753-1-ND	.27	.23	.18	77.70/M	NLCV25T-1R5M-PF
2.2		7.96	0.5	390	95	445-1754-1-ND	.27	.23	.18	77.70/M	NLCV25T-2R2M-PF
3.3		7.96	0.65	340	55	445-1755-1-ND	.27	.23	.18	77.70/M	NLCV25T-3R3M-PF
4.7		7.96	0.8	285	43	445-1756-1-ND	.27	.23	.18	77.70/M	NLCV25T-4R7M-PF
6.8		7.96	1	275	39	445-1757-1-ND	.27	.23	.18	77.70/M	NLCV25T-6R8M-PF
10	±10%	2.52	1.69	210	32	445-1750-1-ND	.27	.23	.18	77.70/M	NLCV25T-100K-PF
15		2.52	2.2	175	21	445-1751-1-ND	.27	.23	.18	77.70/M	NLCV25T-150K-PF
22		2.52	2.8	160	18	445-1758-1-ND	.27	.23	.18	77.70/M	NLCV25T-220K-PF
33		2.52	4.2	120	16	445-1759-1-ND	.27	.23	.18	77.70/M	NLCV25T-330K-PF
Fig. 3 — NLFV25 Series											
1.0	±20%	7.96	0.07	455	100	445-1904-1-ND	.64	.60	.50	178.20/M	NLFV25T-1R0M-PF
1.5		7.96	0.09	350	80	445-1905-1-ND	.64	.60	.50	178.20/M	NLFV25T-1R5M-PF
2.2		7.96	0.1	315	70	445-1907-1-ND	.64	.60	.50	178.20/M	NLFV25T-2R2M-PF
3.3		7.96	0.2	280	55	445-1909-1-ND	.64	.60	.50	178.20/M	NLFV25T-3R3M-PF
4.7		7.96	0.24	210	45	445-1911-1-ND	.64	.60	.50	178.20/M	NLFV25T-4R7M-PF
6.8		7.96	0.29	175	38	445-1913-1-ND	.64	.60	.50	178.20/M	NLFV25T-6R8M-PF
10	±10%	2.52	0.36	155	32	445-1901-1-ND	.64	.60	.50	178.20/M	NLFV25T-100K-PF
15		2.52	0.75	130	28	445-1903-1-ND	.64	.60	.50	178.20/M	NLFV25T-150K-PF
22		2.52	1.0	105	16	445-1906-1-ND	.64	.60	.50	178.20/M	NLFV25T-220K-PF
33		2.52	1.4	85	14	445-1908-1-ND	.64	.60	.50	178.20/M	NLFV25T-330K-PF
47		2.52	1.7	60	11	445-1910-1-ND	.64	.60	.50	178.20/M	NLFV25T-470K-PF
68		2.52	3.3	50	10	445-1912-1-ND	.64	.60	.50	178.20/M	NLFV25T-680K-PF
100		0.796	4.0	40	8	445-1902-1-ND	.64	.60	.50	178.20/M	NLFV25T-101K-PF

Inductance (µH)	Inductance Tol.	Test Freq. (MHz)	DC Res. Max. (Ω)	Rated Current Max. (mA)	SRF Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel§ Pricing 500	TDK Part No.
Fig. 4 — NLC4532 Series											
1.0	±10%	7.96	0.11	1050	200	445-1944-1-ND	.59	.49	.40	85.75	NLC453232T-1R0K-PF
1.2		7.96	0.12	1000	160	445-1945-1-ND	.59	.49	.40	85.75	NLC453232T-1R2K-PF
1.5		7.96	0.15	950	130	445-1946-1-ND	.59	.49	.40	85.75	NLC453232T-1R5K-PF
1.8		7.96	0.16	900	100	445-1947-1-ND	.59	.49	.40	85.75	NLC453232T-1R8K-PF
2.2		7.96	0.18	850	80	445-1948-1-ND	.59	.49	.40	85.75	NLC453232T-2R2K-PF
2.7	±10%	7.96	0.2	800	60	445-1949-1-ND	.59	.49	.40	85.75	NLC423232T-2R7K-PF
3.3		7.96	0.22	750	45	445-1950-1-ND	.59	.49	.40	85.75	NLC453232T-3R3K-PF
3.9		7.96	0.24	700	40	445-1951-1-ND	.59	.49	.40	85.75	NLC453232T-3R9K-PF
4.7		7.96	0.27	650	35	445-1952-1-ND	.59	.49	.40	85.75	NLC453232T-4R7K-PF
5.6		7.96	0.3	650	30	445-1953-1-ND	.59	.49	.40	85.75	NLC453232T-5R6K-PF
6.8	±10%	7.96	0.35	600	28	445-1954-1-ND	.59	.49	.40	85.75	NLC453232T-6R8K-PF
8.2		7.96	0.4	600	25	445-1955-1-ND	.59	.49	.40	85.75	NLC453232T-8R2K-PF
10		2.52	0.5	550	22	445-1956-1-ND	.59	.49	.40	85.75	NLC453232T-100K-PF
12		2.52	0.6	500	21	445-1957-1-ND	.59	.49	.40	85.75	NLC453232T-120K-PF
15		2.52	0.7	450	20	445-1958-1-ND	.59	.49	.40	85.75	NLC453232T-150K-PF
18	±10%	2.52	0.8	400	19	445-1959-1-ND	.59	.49	.40	85.75	NLC453232T-180K-PF
22		2.52	0.9	370	18	445-1960-1-ND	.59	.49	.40	85.75	NLC453232T-220K-PF
27		2.52	1.2	330	16	445-1961-1-ND	.59	.49	.40	85.75	NLC453232T-270K-PF
33		2.52	1.4	300	14	445-1962-1-ND	.59	.49	.40	85.75	NLC453232T-330K-PF
39		2.52	1.6	280	12	445-1963-1-ND	.59	.49	.40	85.75	NLC453232T-390K-PF
47	±10%	2.52	1.9	260	11.5	445-1964-1-ND	.59	.49	.40	85.75	NLC453232T-470K-PF
56		2.52	2.2	240	11	445-1965-1-ND	.59	.49	.40	85.75	NLC453232T-560K-PF
68		2.52	2.6	220	10	445-1966-1-ND	.59	.49	.40	85.75	NLC453232T-680K-PF
82		2.52	3.5	200	9	445-1967-1-ND	.59	.49	.40	85.75	NLC453232T-820K-PF
100		0.796	4	180	8	445-1968-1-ND	.59	.49	.40	85.75	NLC453232T-101K-PF
120	±10%	0.796	4.5	160	7.5	445-1969-1-ND	.59	.49	.40	85.75	NLC453232T-121K-PF
150		0.796	6.5	140	7	445-1970-1-ND	.59	.49	.40	85.75	NLC453232T-151K-PF
180		0.796	7.5	120	6.5	445-1971-1-ND	.59	.49	.40	85.75	NLC453232T-181K-PF
220		0.796	9	120	5.5	445-1972-1-ND	.59	.49	.40	85.75	NLC453232T-221K-PF
270		0.796	11	100	5	445-1973-1-ND	.59	.49	.40	85.75	NLC453232T-271K-PF
330		0.796	13	90	4	445-1974-1-ND	.59	.49	.40	85.75	NLC453232T-331K-PF

§ For Tape and Reel part number, change the 1-ND to 2-ND.

Inductors - VLP and SLF Series

VLP Series: This is a SMD power inductor for power supplies that has an open magnetic path construction based on a low-height drum core (upright). User terminals are contact-formed on the bottom of the drum core using copper (finished with tin plating). It uses crosswise windings and supports large currents.

SLF Series: SLF series large current leadless inductors have been developed for SMD of power circuits. High performance ferrite core material and low-profile design, ensure superior characteristics and high reliability. **Features:** • Low-profile SMD type • Magnetic shielded type suitable for high density mounting • Provided with embossed carrier tape packaging for automatic mounting machines • Only reflow soldering is applicable **Characteristics:** Sizes SLF6028, SLF7032, and SLF7045: Operating temperature is -20°C ~ 85°C; Size SLF10145: Operating temperature is -20°C ~ 90°C

Fig. 1 — VLP46

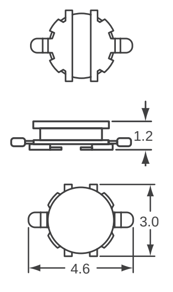

Fig. 2 — VLP56

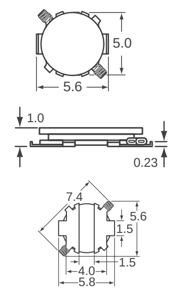

Fig. 3 — SLF6028

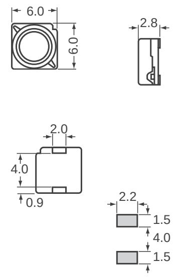

Fig. 4 — SLF7032

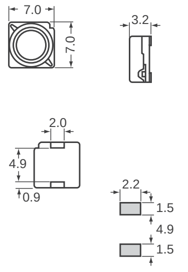

Fig. 5 — SLF7045

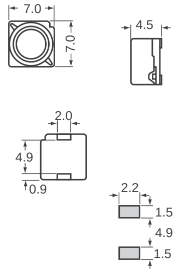

Fig. 6 — SLF10145

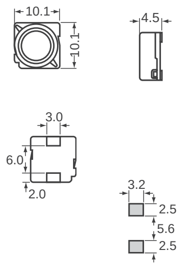

Inductance (µH)	Test Frequency L (KHz)	DC Res. Maximum (Ω)	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	TDK Part No.
Fig. 1 — VLP46 Series (±20% Inductance Tolerance)											
1.0	100	0.11	2.30	445-1916-1-ND	1.90	1.76	1.46	445-1916-2-ND	3,000	525.60/M	VLP4612T-1R0M1R5
1.8	100	0.14	1.70	445-1917-1-ND	1.90	1.76	1.46	445-1917-2-ND	3,000	525.60/M	VLP4612T-1R8M1R3
2.5	100	0.17	1.40	445-1919-1-ND	1.90	1.76	1.46	445-1919-2-ND	3,000	525.60/M	VLP4612T-2R5M1R1
3.3	100	0.26	0.90	445-1920-1-ND	1.90	1.76	1.46	445-1920-2-ND	3,000	525.60/M	VLP4612T-3R3MR85
4.7	100	0.28	0.88	445-1921-1-ND	1.90	1.76	1.46	445-1921-2-ND	3,000	525.60/M	VLP4612T-4R7MR72
6.8	100	0.38	0.77	445-1922-1-ND	1.90	1.76	1.46	445-1922-2-ND	3,000	525.60/M	VLP4612T-6R8MR67
10.0	100	0.62	0.59	445-1914-1-ND	1.90	1.76	1.46	445-1914-2-ND	3,000	525.60/M	VLP4612T-100MR52
15.0	100	0.96	0.45	445-1915-1-ND	1.90	1.76	1.46	445-1915-2-ND	3,000	525.60/M	VLP4612T-150MR42
22.0	100	1.42	0.39	445-1918-1-ND	1.90	1.76	1.46	445-1918-2-ND	3,000	525.60/M	VLP4612T-220MR34
Fig. 2 — VLP56 Series (±20% Inductance Tolerance)											
2.7	100	0.17	1.26	445-1926-1-ND	2.52	2.33	1.94	445-1926-2-ND	3,000	698.40/M	VLP5610T-2R7M1R0
4.7	100	0.24	1.08	445-1929-1-ND	2.52	2.33	1.94	445-1929-2-ND	3,000	698.40/M	VLP5610T-4R7MR90
6.8	100	0.30	0.90	445-1930-1-ND	2.52	2.33	1.94	445-1930-2-ND	3,000	698.40/M	VLP5610T-6R8MR80
10.0	100	0.45	0.72	445-1923-1-ND	2.52	2.33	1.94	445-1923-2-ND	3,000	698.40/M	VLP5610T-100MR65
15.0	100	0.71	0.63	445-1924-1-ND	2.52	2.33	1.94	445-1924-2-ND	3,000	698.40/M	VLP5610T-150MR52
22.0	100	0.96	0.50	445-1925-1-ND	2.52	2.33	1.94	445-1925-2-ND	3,000	698.40/M	VLP5610T-220MR45
33.0	100	1.47	0.41	445-1927-1-ND	2.52	2.33	1.94	445-1927-2-ND	3,000	698.40/M	VLP5610T-330MR36
47.0	100	1.93	0.36	445-1928-1-ND	2.52	2.33	1.94	445-1928-2-ND	3,000	698.40/M	VLP5610T-470MR29

Inductance (µH)	Test Frequency L (KHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	TDK Part No.
Fig. 3 — SLF6028 Series (±20% Inductance Tolerance)											
4.7	100	0.0284	1.6	445-1995-1-ND•	2.73	2.28	1.82	445-1995-2-ND•	1,000	796.25	SLF6028T-4R7M1R6-PF
6.8	100	0.0354	1.5	445-1997-1-ND•	2.73	2.28	1.82	445-1997-2-ND•	1,000	796.25	SLF6028T-6R8M1R5-PF
10	100	0.0532	1.3	445-1989-1-ND•	2.73	2.28	1.82	445-1989-2-ND•	1,000	796.25	SLF6028T-100M1R3-PF
15	100	0.0745	1.0	445-1991-1-ND•	2.73	2.28	1.82	445-1991-2-ND•	1,000	796.25	SLF6028T-150M1R0-PF
22	100	0.104	0.77	445-1992-1-ND•	2.73	2.28	1.82	445-1992-2-ND•	1,000	796.25	SLF6028T-220MR77-PF
33	100	0.148	0.69	445-1993-1-ND•	2.73	2.28	1.82	445-1993-2-ND•	1,000	796.25	SLF6028T-330MR69-PF
47	100	0.21	0.59	445-1994-1-ND•	2.73	2.28	1.82	445-1994-2-ND•	1,000	796.25	SLF6028T-470MR59-PF
68	100	0.29	0.5	445-1996-1-ND•	2.73	2.28	1.82	445-1996-2-ND•	1,000	796.25	SLF6028T-680MR50-PF
100	100	0.43	0.42	445-1990-1-ND•	2.73	2.28	1.82	445-1990-2-ND•	1,000	796.25	SLF6028T-101MR42-PF
Fig. 4 — SLF7032 Series (±20% Inductance Tolerance)											
3.3	100	0.023	1.9	445-2007-1-ND•	1.16	.97	.78	445-2007-2-ND•	1,000	337.75	SLF7032T-3R3M1R9-2-PF
4.7	100	0.036	1.7	445-2010-1-ND•	1.16	.97	.78	445-2010-2-ND•	1,000	337.75	SLF7032T-4R7M1R7-2-PF
6.8	100	0.041	1.6	445-2013-1-ND•	1.16	.97	.78	445-2013-2-ND•	1,000	337.75	SLF7032T-6R8M1R6-2-PF
10	100	0.053	1.4	445-1998-1-ND•	1.16	.97	.78	445-1998-2-ND•	1,000	337.75	SLF7032T-100M1R4-2-PF
15	100	0.075	1.1	445-2001-1-ND•	1.16	.97	.78	445-2001-2-ND•	1,000	337.75	SLF7032T-150M1R1-2-PF
22	100	0.11	0.96	445-2003-1-ND•	1.16	.97	.78	445-2003-2-ND•	1,000	337.75	SLF7032T-220MR96-2-PF
33	100	0.16	0.75	445-2005-1-ND•	1.16	.97	.78	445-2005-2-ND•	1,000	337.75	SLF7032T-330MR75-2-PF
47	100	0.24	0.67	445-2008-1-ND•	1.16	.97	.78	445-2008-2-ND•	1,000	337.75	SLF7032T-470MR67-2-PF
68	100	0.31	0.59	445-2011-1-ND•	1.16	.97	.78	445-2011-2-ND•	1,000	337.75	SLF7032T-680MR59-2-PF
100	100	0.45	0.45	445-1999-1-ND•	1.16	.97	.78	445-1999-2-ND•	1,000	337.75	SLF7032T-101MR45-2-PF
150	100	0.65	0.37	445-2002-1-ND•	1.16	.97	.78	445-2002-2-ND•	1,000	337.75	SLF7032T-151MR37-2-PF
220	100	1.05	0.29	445-2004-1-ND•	1.16	.97	.78	445-2004-2-ND•	1,000	337.75	SLF7032T-221MR29-2-PF
330	100	1.67	0.22	445-2006-1-ND•	1.16	.97	.78	445-2006-2-ND•	1,000	337.75	SLF7032T-331MR22-2-PF
470	100	2.05	0.2	445-2009-1-ND•	1.16	.97	.78	445-2009-2-ND•	1,000	337.75	SLF7032T-471MR20-2-PF
680	100	3.15	0.16	445-2012-1-ND•	1.16	.97	.78	445-2012-2-ND•	1,000	337.75	SLF7032T-681MR16-2-PF
1000	100	4.78	0.13	445-2000-1-ND•	1.16	.97	.78	445-2000-2-ND•	1,000	337.75	SLF7032T-102MR13-2-PF

• RoHS Compliant

(Continued)

Inductance (µH)	Test Frequency L (KHz)	DC Res. Nominal (Ω) ±20%	Rated Current (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	TDK Part No.
Fig. 5 — SLF7045 Series (±20% Inductance Tolerance)											
3.3	100	0.02	2.5	445-2023-1-ND•	1.31	1.09	.88	445-2023-2-ND•	1,000	381.50	SLF7045T-3R3M2R5-PF
4.7	100	0.03	2	445-2026-1-ND•	1.31	1.09	.88	445-2026-2-ND•	1,000	381.50	SLF7045T-4R7M2R0-PF
6.8	100	0.039	1.7	445-2029-1-ND•	1.31	1.09	.88	445-2029-2-ND•	1,000	381.50	SLF7045T-6R8M1R7-PF
10	100	0.036	1.3	445-2014-1-ND•	1.31	1.09	.88	445-2014-2-ND•	1,000	381.50	SLF7045T-100M1R3-PF
15	100	0.052	1.1	445-2017-1-ND•	1.31	1.09	.88	445-2017-2-ND•	1,000	381.50	SLF7045T-150M1R1-PF
22	100	0.061	0.9	445-2019-1-ND•	1.31	1.09	.88	445-2019-2-ND•	1,000	381.50	SLF7045T-220MR90-PF
33	100	0.096	0.82	445-2021-1-ND•	1.31	1.09	.88	445-2021-2-ND•	1,000	381.50	SLF7045T-330MR82-PF
47	100	0.125	0.75	445-2024-1-ND•	1.31	1.09	.88	445-2024-2-ND•	1,000	381.50	SLF7045T-470MR75-PF
68	100	0.175	0.6	445-2027-1-ND•	1.31	1.09	.88	445-2027-2-ND•	1,000	381.50	SLF7045T-680MR60-PF
100	100	0.25	0.5	445-2015-1-ND•	1.31	1.09	.88	445-2015-2-ND•	1,000	381.50	SLF7045T-101MR50-PF
150	100	0.34	0.4	445-2018-1-ND•	1.31	1.09	.88	445-2018-2-ND•	1,000	381.50	SLF7045T-151MR40-PF
220	100	0.52	0.33	445-2020-1-ND•	1.31	1.09	.88	445-2020-2-ND•	1,000	381.50	SLF7045T-221MR33-PF
330	100	0.74	0.25	445-2022-1-ND•	1.31	1.09	.88	445-2022-2-ND•	1,000	381.50	SLF7045T-331MR25-PF
470	100	1.05	0.22	445-2025-1-ND•	1.31	1.09	.88	445-2025-2-ND•	1,000	381.50	SLF7045T-471MR22-PF
680	100	1.48	0.2	445-2028-1-ND•	1.31	1.09	.88	445-2028-2-ND•	1,000	381.50	SLF7045T-681MR20-PF
1000	100	2.28	0.14	445-2016-1-ND•	1.31	1.09	.88	445-2016-2-ND•	1,000	381.50	SLF7045T-102MR14-PF
Fig. 6 — SLF10145 Series (±20% Inductance Tolerance)											
10	1	0.0364	2.5	445-1975-1-ND•	1.76	1.47	1.18	445-1975-2-ND•	500	256.38	SLF10145T-100M2R5-PF
15	1	0.0472	2.2	445-1978-1-ND•	1.76	1.47	1.18	445-1978-2-ND•	500	256.38	SLF10145T-150M2R2-PF
22	1	0.0591	1.9	445-1981-1-ND•	1.76	1.47	1.18	445-1981-2-ND•	500	256.38	SLF10145T-220M1R9-PF
33	1	0.0815	1.6	445-1983-1-ND•	1.76	1.47	1.18	445-1983-2-ND•	500	256.38	SLF10145T-330M1R6-PF
47	1	0.1	1.4	445-1985-1-ND•	1.76	1.47	1.18	445-1985-2-ND•	500	256.38	SLF10145T-470M1R4-PF
68	1	0.14	1.2	445-1987-1-ND•	1.76	1.47	1.18	445-1987-2-ND•	500	256.38	SLF10145T-680M1R2-PF
100	1	0.2	1.0	445-1976-1-ND•	1.76	1.47	1.18	445-1976-2-ND•	500	256.38	SLF10145T-101M1R0-PF
150	1	0.35	0.79	445-1979-1-ND•	1.76	1.47	1.18	445-1979-2-ND•	500	256.38	SLF10145T-151MR79-PF
220	1	0.47	0.65	445-1982-1-ND•	1.76	1.47	1.18	445-1982-2-ND•	500	256.38	SLF10145T-221MR65-PF
330	1	0.68	0.54	445-1984-1-ND•	1.76	1.47	1.18	445-1984-2-ND•	500	256.38	SLF10145T-331MR54-PF
470	1	1.03	0.47	445-1986-1-ND•	1.76	1.47	1.18	445-1986-2-ND•	500	256.38	SLF10145T-471MR47-PF
680	1	1.6	0.38	445-1988-1-ND•	1.76	1.47	1.18	445-1988-2-ND•	500	256.38	SLF10145T-681MR38-PF
1000	1	2.8	0.29	445-1977-1-ND•	1.76	1.47	1.18	445-1977-2-ND•	500	256.38	SLF10145T-102MR29-PF
1500	1	3.4	0.22	445-1980-1-ND•	1.76	1.47	1.18	445-1980-2-ND•	500	256.38	SLF10145T-152MR22-PF

- **RoHS Compliant**

Transformers - PCA Series

PCA Series:

These PCA transformers are generic in their winding construction and can be configured into numerous winding turn ratios via the PCB they are mounted on.

Applications:

- Inductors (coupled, choke, buck, boost and resonant)
- Transformers (flyback, feed forward, push-pull and converter).

There are four package sizes with numerous available inductance values within each package.

Fig. 1 — PCA11/5ER

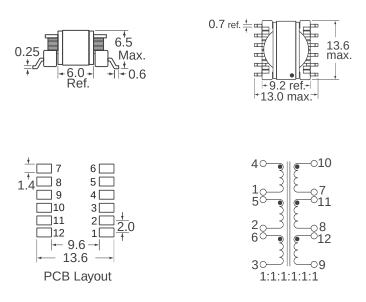

Fig. 2 — PCA15EFD

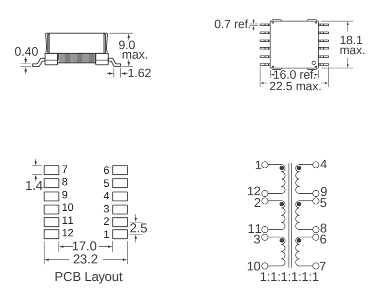

Fig. 3 — PCA20EFD

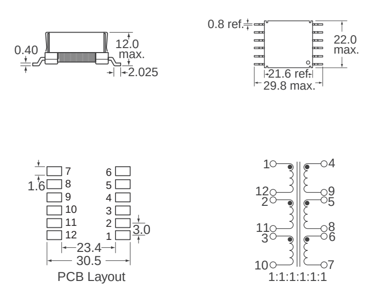

Inductance (µH) Parallel	Series	IDC[1] (A) (Typ.) Par.	Series	DCR (mΩ) (±15%) Par.	Series	Digi-Key Part No.	Price Each 1	10	100	TDK Part No.
Fig. 1 — PCA11/5ER Series										
193.0±30%	6.9mH±30%	0.11	0.02	44.4	1607	445-1670-ND	3.54	2.66	1.77	PCA11/5ER-U01S002
27.4±20%	985±20%	1.76	0.29	44.4	1607	445-1668-ND	3.54	2.66	1.77	PCA11/5ER-U03S002
10.9±20%	394±20%	5.19	0.87	44.4	1607	445-1665-ND	3.54	2.66	1.77	PCA11/5ER-U07S002
8.5±20%	306±20%	6.57	1.10	44.4	1607	445-1664-ND	3.54	2.66	1.77	PCA11/5ER-U09S002
Fig. 2 — PCA15E FD Series										
169.0±30%	6.1mH±30%	0.1	0.02	12.9	466	445-1690-ND	4.41	3.31	2.21	PCA15EFD-U01S003
81.0±30%	2.9mH±30%	0.2	0.04	8.9	323	445-1689-ND	4.41	3.31	2.21	PCA15EFD-U02S002
3.8±20%	137±20%	13.4	2.23	8.9	323	445-1681-ND	4.41	3.31	2.21	PCA15EFD-U10S002
Fig. 3 — PCA20EFD Series										
197.3±30%	7.1mH±30%	0.2	0.03	7.9	285	445-1700-ND	4.86	3.65	2.43	PCA20EFD-U01S003
87.7±30%	3.2mH±30%	0.3	0.06	5.2	188	445-1699-ND	4.86	3.65	2.43	PCA20EFD-U02S002
9.9±20%	357±20%	8.6	1.43	5.2	188	445-1696-ND	4.86	3.65	2.43	PCA20EFD-U04S002
12.0±20%	430±20%	10.9	1.82	7.9	285	445-1697-ND	4.86	3.65	2.43	PCA20EFD-U05S003
9.6±20%	347±20%	13.3	2.21	7.9	285	445-1695-ND	4.86	3.65	2.43	PCA20EFD-U07S003
4.3±20%	154±20%	20.5	3.42	5.2	188	445-1692-ND	4.86	3.65	2.43	PCA20EFD-U08S002
3.4±20%	122±20%	26.2	4.36	5.2	188	445-1691-ND	4.86	3.65	2.43	PCA20EFD-U10S002

AlfaMag Electronics

Inductors for National Simple Switchers™

Features: • High energy storage with minimum saturation • High stability from no load to full load • Operating Temp. Range: -40°C ~ 125°C (50KHz and 150KHz), 40°C ~ 130°C (260KHz) • Electrical specifications at 25°C ambient • Inductance is measured at 20KHz, 10mVrms **50KHz Inductors** are compatible with National Simple Switcher LM2574, LM2475, and LM2576 Series of Regulators. 50KHz Inductance will be typical for the I_{DC} and ET_{OP} values listed. **150KHz Inductors** are compatible with National Simple Switcher part numbers LM259X-L1 through LM259X-L44 and LM258X-L. **260KHz Inductors** are compatible with National Simple Switcher part numbers LM267X-L41 and LM267X-L45 through LM267X-L50

Size Code	Dimensions - Inches ±0.01 (mm ±0.25)			
	A	B	C	X
C1	0.580 (14.73)	0.340 (8.64)	0.220 (5.58)	0.650 (16.51)
C2	0.650 (16.5)	0.449 (11.4)	0.299 (7.6)	0.700 (17.78)
C3	0.827 (21.0)	0.449 (11.4)	0.299 (7.6)	0.950 (24.13)
C4	0.949 (24.1)	0.598 (15.2)	0.449 (11.4)	1.100 (27.94)
C5	1.252 (31.8)	0.701 (17.8)	0.500 (12.7)	1.400 (35.56)

Size Code	Dimensions - Inches ±0.010 (mm ±0.25)			
	A	B	C	D
S1	0.339 (8.6)	0.339 (8.6)	0.185 (4.7)	0.268 (6.8)
S2	0.394 (10.0)	0.394 (10.0)	0.256 (6.5)	0.339 (8.6)
S3	0.503 (12.8)	0.503 (12.8)	0.276 (7.0)	0.449 (11.4)
S4	0.591 (15.0)	0.591 (15.0)	0.315 (8.0)	0.508 (12.9)
S5	0.669 (17.0)	0.701 (17.8)	0.390 (9.91)	0.591 (15.0)
S6	0.925 (23.5)	0.925 (23.5)	0.496 (12.6)	0.827 (21.0)
S7	1.063 (27.0)	1.220 (30.99)	0.500 (12.7)	1.10 (27.9)
T1	0.339 (8.6)	0.339 (8.6)	0.185 (4.7)	0.250 (6.35)
T2	0.394 (10.0)	0.394 (10.0)	0.256 (6.5)	0.300 (7.62)
T3	0.503 (12.8)	0.503 (12.8)	0.276 (7.0)	0.375 (9.52)
T4	0.591 (15.0)	0.591 (15.0)	0.315 (8.0)	0.500 (12.70)
T5	0.669 (17.0)	0.701 (17.8)	0.390 (9.91)	0.600 (15.24)

Typical Schematic

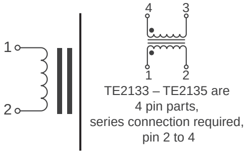

TE2133 – TE2135 are 4 pin parts, series connection required, pin 2 to 4

B Series — **Base Mount**

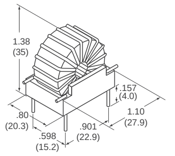

C Series — **Clip Mount**

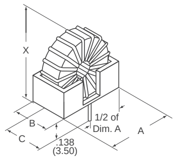

F Series — **Encapsulated Flat Mount**

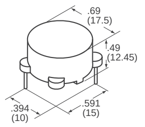

S Series — **Surface Mount**

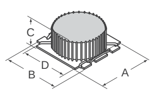

T Series — **Thru-Hole Mount**

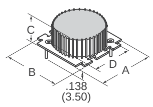

V Series — **Encapsulated Vertical Mount**

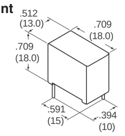

50 KHz Inductors

L_N (µH) Typ.	I_{DC} Current (A)	ET_{OP} (V-µSec) Max.	DCR (Ohms) Max.	Size Code (Dim.)	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.
47	3.0	90	0.05	C2	TE2000-ND	1.53	1.04	.94	SWC-3.0-47
47	3.0	90	0.05	S5	TE2001-ND	1.29	.87	.79	SWS-3.0-47
47	3.0	90	0.05	T5	TE2002-ND	1.37	.93	.84	SWT-3.0-47
68	3.0	90	0.02	C4	TE2003-ND	2.14	1.70	1.54	SWC-3.0-68
100	3.0	90	0.04	C4	TE2004-ND	1.93	1.53	1.39	SWC-3.0-100
150	2.0	90	0.10	C4	TE2005-ND	1.86	1.48	1.34	SWC-2.0-150
150	2.0	90	0.10	S6	TE2006-ND	1.98	1.34	1.22	SWS-2.0-150
150	3.0	200	0.10	C4	TE2024-ND	1.83	1.45	1.32	SWC-3.0-150
220	1.4	90	0.38	S5	TE2007-ND	1.86	1.26	1.14	SWS-1.4-220
220	1.4	90	0.38	T5	TE2008-ND	1.98	1.34	1.22	SWT-1.4-220
220	1.4	90	0.38	F Series	TE2009-ND	2.02	1.37	1.24	SWF-1.4-220
220	1.4	90	0.38	V Series	TE2010-ND	1.86	1.48	1.34	SWV-1.4-220
220	1.4	90	0.14	C3	TE2011-ND	1.90	1.28	1.17	SWC-1.4-220
220	1.4	90	0.14	S6	TE2012-ND	1.82	1.23	1.12	SWS6-1.4-220
220	3.0	200	0.07	C5	TE2025-ND	2.57	2.04	1.85	SWC-3.0-220
330	0.9	90	0.74	S5	TE2013-ND	1.94	1.31	1.19	SWS-0.90-330
330	0.9	90	0.74	T5	TE2014-ND	2.02	1.37	1.24	SWT-0.90-330
330	0.9	90	0.74	F Series	TE2015-ND	1.76	1.39	1.27	SWF-0.90-330
330	0.9	90	0.74	V Series	TE2016-ND	1.90	1.50	1.37	SWV-0.90-330
330	0.9	90	0.18	C3	TE2017-ND	2.02	1.37	1.24	SWC-0.90-330
330	0.9	90	0.18	S6	TE2018-ND	1.90	1.28	1.17	SWS6-0.90-330
330	3.0	200	0.15	C5	TE2026-ND	2.54	2.01	1.83	SWC-3.0-330
470	0.64	90	0.16	C4	TE2019-ND	2.17	1.72	1.57	SWC-0.64-470
470	2.0	200	0.17	C5	TE2027-ND	2.61	2.07	1.88	SWC-2.0-470
680	0.85	90	1.25	S5	TE2020-ND	1.76	1.39	1.27	SWS-0.85-680
680	0.85	90	1.25	T5	TE2021-ND	1.83	1.45	1.32	SWT-0.85-680
680	0.85	90	1.25	F Series	TE2022-ND	1.93	1.53	1.39	SWF-0.85-680
680	0.85	90	1.25	V Series	TE2023-ND	2.07	1.64	1.49	SWV-0.85-680
680	1.3	200	0.20	C5	TE2028-ND	2.71	2.15	1.95	SWC-1.3-680
1000	0.95	200	0.24	C5	TE2029-ND	2.92	2.31	2.10	SWC-0.95-1000
1500	0.62	200	1.00	B Series	TE2030-ND	2.82	2.23	2.03	SWB-0.62-1500
2200	0.42	200	1.80	B Series	TE2031-ND	2.82	2.23	2.03	SWB-0.42-2200

150 KHz Inductors

L_N (µH) ±20%	I_{DC} Current (A)	ET_{OP} (V-µSec) Max.	DCR (Ohms) Max.	Simple Switcher™ Reference No.†	Size Code (Dim.)	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.	Size Code (Dim.)	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.
					Surface Mount						**Thru-Hole**					
118	0.20	13.2	1.80	LM259X-L3	S1	TE2034-ND	1.09	.74	.67	SWS-0.20-118	T1	TE2079-ND	1.15	.78	.71	SWT-0.20-118
55	0.30	6.6	1.00	LM259X-L5	S1	TE2036-ND	1.03	.69	.63	SWS-0.30-55	T1	TE2081-ND	1.09	.74	.67	SWT-0.30-55
374	0.20	75.9	2.70	LM259X-L8	S2	TE2039-ND	1.38	.93	.85	SWS-0.20-374	T2	TE2084-ND	1.44	.97	.88	SWT-0.20-374
256	0.25	33.0	2.20	LM259X-L9	S2	TE2040-ND	1.32	.89	.81	SWS-0.25-256	T2	TE2085-ND	1.38	.93	.85	SWT-0.25-256
176	0.30	26.4	1.40	LM259X-L10	S2	TE2041-ND	1.26	.85	.77	SWS-0.30-176	T2	TE2086-ND	1.32	.89	.81	SWT-0.30-176
118	0.38	19.8	1.20	LM259X-L11	S2	TE2042-ND	1.19	.81	.73	SWS-0.38-118	T2	TE2087-ND	1.26	.85	.77	SWT-0.38-118
55	0.56	13.2	0.50	LM259X-L13	S2	TE2044-ND	1.13	.77	.70	SWS-0.56-55	T2	TE2089-ND	1.19	.81	.73	SWT-0.56-55
26	0.84	6.6	0.20	LM259X-L15	S2	TE2046-ND	1.07	.73	.66	SWS-0.84-26	T2	TE2091-ND	1.13	.77	.70	SWT-0.84-26
17	1.02	6.6	0.10	LM259X-L16	S2	TE2047-ND	1.07	.73	.66	SWS-1.02-17	T2	TE2092-ND	1.19	.81	.73	SWT-1.02-17
375	0.36	75.9	1.30	LM259X-L17	S3	TE2048-ND	1.55	1.04	.95	SWS-0.36-375	T3	TE2093-ND	1.61	1.09	.99	SWT-0.36-375
252	0.44	49.5	0.90	LM259X-L18	S3	TE2049-ND	1.42	.96	.87	SWS-0.44-252	T3	TE2094-ND	1.55	1.04	.95	SWT-0.44-252
173	0.54	36.3	0.60	LM259X-L19	S3	TE2050-ND	1.42	.96	.87	SWS-0.54-173	T3	TE2095-ND	1.48	1.00	.91	SWT-0.54-173
115	0.67	29.7	0.40	LM259X-L20	S3	TE2051-ND	1.36	.92	.84	SWS-0.67-115	T3	TE2096-ND	1.42	.96	.87	SWT-0.67-115
78	0.82	23.1	0.30	LM259X-L21	S3	TE2052-ND	1.30	.88	.80	SWS-0.82-78	T3	TE2097-ND	1.36	.92	.84	SWT-0.82-78
54	1.00	16.5	0.20	LM259X-L22	S3	TE2053-ND	1.30	.88	.80	SWS-1.00-54	T3	TE2098-ND	1.36	.92	.84	SWT-1.00-54
38	1.20	13.2	0.10	LM259X-L23	S3	TE2054-ND	1.30	.88	.80	SWS-1.20-38	T3	TE2099-ND	1.36	.92	.84	SWT-1.20-38
26	1.48	9.9	0.10	LM259X-L24	S3	TE2055-ND	1.24	.84	.76	SWS-1.48-26	T3	TE2100-ND	1.30	.88	.80	SWT-1.48-26
18	1.81	9.9	0.06	LM259X-L25	S3	TE2056-ND	1.24	.84	.76	SWS-1.81-18	T3	TE2101-ND	1.30	.88	.80	SWT-1.81-18
377	0.68	75.9	1.00	LM259X-L26	S4	TE2057-ND	1.55	1.04	.95	SWS-0.68-377	T4	TE2102-ND	1.67	1.13	1.02	SWT-0.68-377
248	0.83	72.6	0.60	LM259X-L27	S4	TE2058-ND	1.55	1.04	.95	SWS-0.83-248	T4	TE2103-ND	1.61	1.09	.99	SWT-0.83-248
168	1.02	56.1	0.40	LM259X-L28	S4	TE2059-ND	1.48	1.00	.91	SWS-1.02-168	T4	TE2104-ND	1.55	1.04	.95	SWT-1.02-168
112	1.26	42.9	0.30	LM259X-L29	S4	TE2060-ND	1.42	.96	.87	SWS-1.26-112	T4	TE2105-ND	1.48	1.00	.91	SWT-1.26-112
77	1.54	33.0	0.20	LM259X-L30	S4	TE2061-ND	1.42	.96	.87	SWS-1.54-77	T4	TE2106-ND	1.48	1.00	.91	SWT-1.54-77
53	1.87	26.4	0.13	LM259X-L31	S4	TE2062-ND	1.41	.95	.86	SWS-1.87-53	T4	TE2107-ND	1.53	1.03	.94	SWT-1.87-53
37	2.24	19.8	0.10	LM259X-L32	S4	TE2063-ND	1.36	.92	.84	SWS-2.24-37	T4	TE2108-ND	1.42	.96	.87	SWT-2.24-37
24	2.74	16.5	0.07	LM259X-L33	S4	TE2064-ND	1.36	.92	.84	SWS-2.74-24	T4	TE2109-ND	1.42	.96	.87	SWT-2.74-24
17	3.00	13.2	0.05	LM259X-L34	S4	TE2065-ND	1.36	.92	.84	SWS-3.00-17	C1	TE2110-ND	1.42	.96	.87	SWC-3.00-17
250	1.50	72.6	0.23	LM259X-L35	S6	TE2066-ND	2.78	2.20	2.00	SWS-1.50-250	C3	TE2111-ND	2.84	2.25	2.04	SWC-1.50-250
168	1.81	75.9	0.18	LM259X-L36	S6	TE2067-ND	2.68	2.12	1.93	SWS-1.81-168	C3	TE2112-ND	2.73	2.16	1.97	SWC-1.81-168
114	2.22	62.7	0.10	LM259X-L37	S6	TE2068-ND	2.68	2.12	1.93	SWS-2.22-114	C3	TE2113-ND	2.73	2.16	1.97	SWC-2.22-114
77	2.70	52.8	0.09	LM259X-L38	S6	TE2069-ND	2.61	2.07	1.88	SWS-2.70-77	C3	TE2114-ND	2.66	2.11	1.92	SWC-2.70-77
53	3.00	42.9	0.08	LM259X-L39	S6	TE2070-ND	2.52	2.00	1.82	SWS-3.00-53	C3	TE2115-ND	2.57	2.04	1.85	SWC-3.00-53
38	3.00	29.7	0.05	LM259X-L40	S6	TE2071-ND	2.52	2.00	1.82	SWS-3.00-38	C3	TE2116-ND	2.57	2.04	1.85	SWC-3.00-38
25	3.00	19.8	0.04	LM259X-L41	S5	TE2072-ND	1.88	1.27	1.15	SWS-3.00-25	C2	TE2117-ND	1.94	1.31	1.19	SWC-3.00-25
167	2.50	75.9	0.14	LM259X-L42	S6	TE2073-ND	3.45	2.73	2.48	SWS-2.50-167	C4	TE2118-ND	3.09	2.84	2.58	SWC-2.50-167
110	3.00	75.9	0.09	LM259X-L43	S6	TE2074-ND	3.05	2.80	2.55	SWS-3.00-110	C4	TE2119-ND	3.17	2.91	2.65	SWC-3.00-110
77	3.00	59.4	0.08	LM259X-L44	S6	TE2075-ND	2.66	2.11	1.92	SWS-3.00-77	C3	TE2120-ND	2.72	2.15	1.96	SWC-3.00-77
19	4.50	32.0‡	0.02	LM258X-L	S6	TE2076-ND	2.64	2.09	1.90	SWS-4.50-19	C3	TE2121-ND	2.69	2.13	1.94	SWC-4.5-19

† To be used for reference only. ‡ ET_{OP} for part number SW☐-4.50-19 is based on a frequency of 100KHz. All other items are rated at 150KHz. ***Note:*** Simple Switcher is a trademark of National Semiconductor.

260 KHz Inductors

L_N (µH) ±20%	I_{DC} Current (A)	ET_{OP} (V-µSec) Max.	DCR (Ohms) Max.	Simple Switcher™ Reference No.†	Size Code (Dim.)	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.	L_N (µH) ±20%	DCR (Ohms) Max.	Size Code (Dim.)	Digi-Key Part No.	Price Each 1	10	25	AlfaMag Part No.
						Surface Mount								**Clip Mount (Thru-Hole)**				
22.8	4.9	23.3	36	LM267X-L41	S6	TE2129-ND	3.03	2.78	2.53	SW260S-4.9-23	22.8	36	C3	TE2122-ND	3.06	2.81	2.55	SW260C-4.9-23
10	4.3	10	26	LM267X-L45	S4	TE2130-ND	2.33	1.85	1.68	SW260S-4.3-10	10.2	26	C1	TE2123-ND	3.34	2.64	2.40	SW260C-4.3-10
15	5.0	17.0	27	LM267X-L46	S5	TE2131-ND	2.82	2.23	2.03	SW260S-5.0-15	14.8	23	C2	TE2124-ND	2.92	2.31	2.10	SW260C-5.0-15
11	5.0	13.0	25	LM267X-L47	S5	TE2132-ND	2.64	2.09	1.90	SW260S-5.0-10	10	25	C2	TE2125-ND	2.75	2.18	1.98	SW260C-5.0-10
52*	5.0	40.0	25	LM267X-L48	S7	TE2133-ND	4.74	4.35	3.95	SW260S-5.0-50	50	50	C4	TE2126-ND	4.08	3.74	3.40	SW260C-5.0-50
36*	5.0	36.0	19	LM267X-L49	S7	TE2134-ND	4.53	4.16	3.78	SW260S-5.0-33	33	47	C4	TE2127-ND	3.84	3.52	3.20	SW260C-5.0-33
24.7*	5.0	24.0	13	LM267X-L50	S7	TE2135-ND	3.84	3.52	3.20	SW260S-5.0-23	23	26	C3	TE2128-ND	3.06	2.81	2.55	SW260C-5.0-23

† To be used for reference only. * 4 pin part, series connection with pins 2-4 connected for correct inductance (L_N) rating. ***Note:*** Simple Switcher is a trademark of National Semiconductor.

TOKO Surface Mount Inductors

LL1005FH, LL1608F, LL1608FH, LL2012F, PTL1608F and PTL2012F Types

FEATURES: LL1005FH – World's smallest chip inductor. For reflow soldering • Temperature Coefficient: +250ppm/°C maximum • Temperature Range: -40°C ~ 100°C • Miniature size (1.0mm x 0.5mm) **LL1608F and LL2012F** – For reflow soldering • Temperature Coefficient: +250ppm/°C maximum • Temperature Range: -40°C ~ 100°C • Laminated ceramic allows high SRF.

The **PTL1608 and PTL2012 Series** is a photolithographically etched single layer ceramic chip inductor providing high SRF, excellent Q, and superior temperature stability. Highly stable and specifically designed for critical tolerance inductor needs. Solves the tight tolerance needs of GaAs matching and VCO circuits. Tolerance: C=±0.2nH, S=±0.3nH, T=3%

LL1005FH

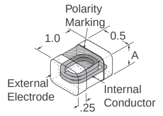

0402 Package

LL1608F, LL1608FH, PTL1608F

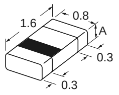

0603 Package

LL2012F, PTL2012F

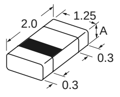

0805 Package

Dim. A (mm)	Lo (nH)	Tol.	Q (typ)	SRF MHz (typ)	IDC mA (Max)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Tape & Reel Pricing★	Toko Part No.
LL1005FH											
0.50	1.0	±0.3nH	30	>6000	300	TKS2580CT-ND	.68	.63	.32	—	LL1005-FH1N0S
0.50	1.2	±0.3nH	30	>6000	300	TKS2581CT-ND	.68	.63	.32	—	LL1005-FH1N2S
0.50	1.5	±0.3nH	30	>6000	300	TKS2582CT-ND	.68	.63	.32	—	LL1005-FH1N5S
0.50	3.3	±10%	28	5000	300	TKS2586CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH3N3K
0.50	3.9	±10%	30	4700	300	TKS2587CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH3N9K
0.50	4.7	±10%	28	4300	300	TKS2588CT-ND	.60	.56	.28	—	LL1005-FH4N7K
0.50	5.6	±10%	28	4000	300	TKS2589CT-ND	.60	.56	.28	—	LL1005-FH5N6K
0.50	6.8	±10%	28	3650	300	TKS2590CT-ND	.60	.56	.28	—	LL1005-FH6N8K
0.50	8.2	±10%	28	3200	300	TKS2591CT-ND	.60	.56	.28	—	LL1005-FH8N2K
0.50	10.0	±10%	23	2800	300	TKS2592CT-ND	.60	.56	.28	1590.00/10000	LL1005-FH10NK
0.50	18.0	±10%	17	2000	300	TKS2595CT-ND	.60	.56	.28	—	LL1005-FH18NK
0.50	22.0	±10%	23	1800	300	TKS2596CT-ND	.60	.56	.28	—	LL1005-FH22NK
0.50	27.0	±10%	20	1600	300	TKS2597CT-ND	.60	.56	.28	—	LL1005-FH27NK
LL1608F											
0.80	1.5	±0.3nH	60	>6000	300	TKS2353CT-ND	.68	.61	.30	844.00/4000	LL1608-F1N5S
0.80	2.2	±0.3nH	35	>6000	300	TKS2355CT-ND	.68	.61	.30	—	LL1608-F2N2S
0.80	2.7	±0.3nH	30	>6000	300	TKS2356CT-ND	.68	.61	.30	—	LL1608-F2N7S
0.80	3.9	±10%	31	5700	300	TKS2340CT-ND	.68	.61	.30	—	LL1608-F3N9K
0.80	12.0	±10%	24	2750	300	TKS2346CT-ND	.68	.61	.30	840.00/4000	LL1608-F12NK
0.80	15.0	±10%	24	2300	300	TKS2347CT-ND	.68	.61	.30	—	LL1608-F15NK
0.80	18.0	±10%	24	2300	300	TKS2348CT-ND	.68	.61	.30	840.00/4000	LL1608-F18NK
0.80	27.0	±10%	25	1750	300	TKS2350CT-ND	.68	.61	.30	840.00/4000	LL1608-F27NK
0.80	33.0	±10%	24	1500	300	TKS2351CT-ND	.68	.61	.30	840.00/4000	LL1608-F33NK
0.80	39.0	±10%	20	1300	300	TKS2352CT-ND	.68	.61	.30	—	LL1608-F39NK
0.80	47.0	±10%	18	1200	300	TKS2381CT-ND	.68	.63	.32	—	LL1608-F47NK
0.80	56.0	±10%	14	1100	300	TKS2382CT-ND	.68	.63	.32	1004.00/4000	LL1608-F56NK
0.80	100.0	±10%	3	830	300	TKS2385CT-ND	.68	.63	.32	—	LL1608-FR10K
LL1608FH											
0.80	1.5	±0.3nH	13	>6000	1000	TKS3701CT-ND	.68	.61	.30	—	LL1608-FH1N5S
0.80	2.2	±0.3nH	12	>6000	1000	TKS3703CT-ND	.68	.61	.30	—	LL1608-FH2N2S
0.80	5.6	±0.3nH	12	4350	600	TKS3708CT-ND	.68	.61	.30	840.00/4000	LL1608-FH5N6S
0.80	15.0	±5%	15	2150	600	TKS3713CT-ND	.68	.61	.30	—	LL1608-FH15NJ
0.80	18.0	±5%	16	2050	600	TKS3714CT-ND	.68	.61	.30	—	LL1608-FH18NJ
0.80	39.0	±5%	17	1350	500	TKS3718CT-ND	.68	.61	.30	—	LL1608-FH39NJ
0.80	56.0	±5%	17	1100	500	TKS3720CT-ND	.68	.61	.30	—	LL1608-FH56NJ
0.80	82.0	±5%	18	900	300	TKS3722CT-ND	.68	.61	.30	—	LL1608-FH82NJ
PTL1608F											
0.50	1.5	±0.2nH	9	10000	800	TKS2902CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F1N5C
0.50	1.8	±0.2nH	10	9250	700	TKS2903CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F1N8C
0.50	2.2	±0.2nH	9	8400	650	TKS2904CT-ND	.75	.67	.33	1398.00/6000	PTL1608-F2N2C
0.50	3.3	±0.2nH	9	6600	500	TKS2906CT-ND	.75	.67	.33	—	PTL1608-F3N3C
0.50	4.7	±0.2nH	10	5200	450	TKS2908CT-ND	.75	.67	.33	—	PTL1608-F4N7C
0.50	5.6	±0.2nH	10	4700	400	TKS2909CT-ND	.75	.67	.33	—	PTL1608-F5N6C
0.50	6.8	±0.3nH	9	4200	350	TKS2910CT-ND	.75	.67	.33	1260.00/6000	PTL1608-F6N8S
0.50	8.2	±0.3nH	9	3750	300	TKS2911CT-ND	.75	.67	.33	—	PTL1608-F8N2S
0.50	10	3%	9	3250	250	TKS2912CT-ND	.90	.81	.40	—	PTL1608-F10NT
0.50	15	3%	8	2650	200	TKS2914CT-ND	.90	.81	.40	1260.00/6000	PTL1608-F15NT
LL2012F											
0.60	1.8	±0.3nH	42	6000	300	TKS2360CT-ND	.90	.81	.40	1120.00/4000	LL2012-F1N8S
0.60	6.8	±10%	44	3650	300	TKS2367CT-ND	.75	.67	.33	—	LL2012-F6N8K
0.85	10.0	±10%	40	2500	300	TKS2369CT-ND	.75	.67	.33	932.00/4000	LL2012-F10NK
0.85	12.0	±10%	40	2450	300	TKS2370CT-ND	.75	.67	.33	—	LL2012-F12NK
1.10	330.0	±10%	20	380	150	TKS2392CT-ND	.75	.70	.35	—	LL2012-FR33K
PTL2012F											
0.50	1.0	±0.2nH	11	10000	1300	TKS2950CT-ND	.98	.88	.43	—	PTL2012-F1N0C
0.50	1.2	±0.2nH	10	9000	1100	TKS2951CT-ND	.98	.88	.43	—	PTL2012-F1N2C
0.50	1.5	±0.2nH	8	8500	800	TKS2952CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F1N5C
0.50	1.8	±0.2nH	9	8000	800	TKS2953CT-ND	.98	.88	.43	1818.00/6000	PTL2012-F1N8C
0.50	2.2	±0.2nH	10	7000	750	TKS2954CT-ND	.98	.88	.43	—	PTL2012-F2N2C
0.50	2.7	±0.2nH	10	6000	750	TKS2955CT-ND	.98	.88	.43	—	PTL2012-F2N7C
0.50	3.9	±0.2nH	10	4800	600	TKS2957CT-ND	.98	.88	.43	—	PTL2012-F3N9C
0.50	5.6	±0.2nH	10	4000	500	TKS2959CT-ND	.98	.88	.43	—	PTL2012-F5N6C
0.50	6.8	±0.3nH	10	3600	450	TKS2960CT-ND	.90	.81	.40	—	PTL2012-F6N8S
0.50	12	3%	12	2500	350	TKS2963CT-ND	.90	.81	.40	—	PTL2012-F12NT
0.50	15	3%	12	2250	300	TKS2964CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F15NT
0.50	22	3%	12	1800	250	TKS2966CT-ND	.90	.81	.40	1680.00/6000	PTL2012-F22NT
0.50	27	3%	12	1650	200	TKS2967CT-ND	.90	.81	.40	—	PTL2012-F27NT
0.50	33	3%	11	1450	200	TKS2968CT-ND	.90	.81	.40	—	PTL2012-F33NT
0.50	39	3%	11	1350	180	TKS2969CT-ND	.90	.81	.40	—	PTL2012-F39NT
0.50	47	3%	11	1180	130	TKS2970CT-ND	.90	.81	.40	—	PTL2012-F47NT
0.50	56	3%	11	1070	120	TKS2971CT-ND	.90	.81	.40	—	PTL2012-F56NT
0.50	68	3%	11	950	100	TKS2972CT-ND	.90	.81	.40	—	PTL2012-F68NT

★ For Tape and Reel part number, change CT-ND to TR-ND.

Fixed Surface Mount Inductors

32CS, 33CS, 36CS, D73C, D73F, D75C, D75F, D52FU, D62CB, D10F, D32FU and D124C Types

Features: 32CS: • For dip-soldering type • Very small **33CS, 36CS:** • High current • High Q for reflow soldering **D73F/C, D75F/C:** • Miniature surface mount type • Low profile (3.2 or 4.8mm height) • Available in magnetically shielded or unshielded versions • Operating Temperature: -40°C ~ 80°C • Step up/Step down inductor for up to 4W DC/DC converter circuit • Current limiting inductor for DC/AC inverter circuit **D52FU:** • Low profile (2.2mm typical height) and 5mm square • Ideal for IC inverter EL lamp driver applications • Magnetically shielded version • Available on tape and reel for auto-insertion • Suitable for reflow soldering **D62CB (with Ferrite Shield):** • Low profile (2.5mm maximum) • Ideal for a variety of DC-DC converter inductor applications • Magnetically shielded **D10F:** • Low profile SMD type (5mm high) • Suitable for large current • Suitable for reflow soldering **D32FU:** • Low profile (2.2mm maximum) and 3.5mm square • Ideal for IC inverter EL lamp driver applications • Available on tape and reel for auto-insertion • Suitable for reflow soldering **D124C:** • Low profile (4.5mm maximum) • Suitable for large currents

32CS

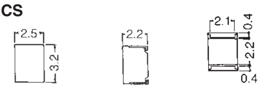

33CS

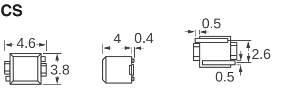

36CS

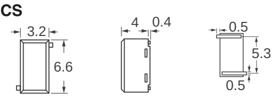

D73C

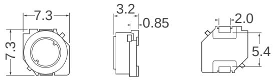

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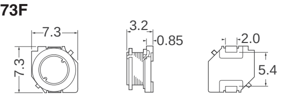

D75C/F

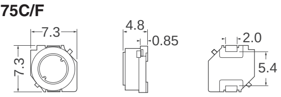

D52FU

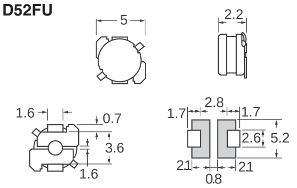

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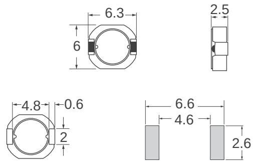

D10F

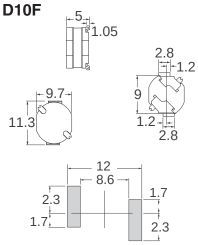

D32FU

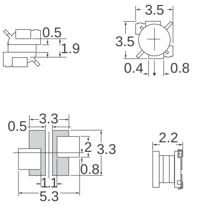

D124C

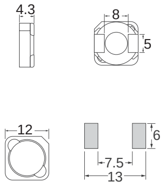

Induct. L Nom.	L Tol. (%)	Q Min	Test Frequency	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing★	Toko Part No.
32CS Type										
68nH	±20	26	100MHz	320mA	TKS1011CT-ND	1.50	1.16	.87	786.00/1500	380NB-68NM
1.0µH	±10	30	7.96MHz	235mA	TKS1025CT-ND	1.50	1.16	.87	786.00/1500	380LB-1R0K
4.7µH	±10	30	7.96MHz	160mA	TKS1033CT-ND	1.50	1.16	.87	—	380LB-4R7K
220µH	±5	18	.796MHz	30.0mA	TKS1053CT-ND	1.50	1.16	.87	786.00/1500	380HB-221J
33CS Type										
6.8nH	±10	70	150MHz	1000mA	TKS2673CT-ND	1.01	.78	.59	1520.00/2000	Y655LY-01K
15.3nH	±10	75	150MHz	1000mA	TKS2675CT-ND	2.18	1.68	1.26	—	Y655LY-03K
36CS Type										
22nH	±10	85	150MHz	1000mA	TKS2677CT-ND	2.13	1.64	1.23	1640.00/2000	656LZ-05K
27.5nH	±10	85	150MHz	1000mA	TKS2678CT-ND	2.13	1.64	1.23	1640.00/2000	656LZ-06K
49.8nH	±10	85	150MHz	1000mA	TKS2681CT-ND	2.13	1.64	1.23	—	656LZ-09K

Induct. L Nom.	L Tol. (%)	Test Frequency	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing★	Toko Part No.
D73C Type, with Ferrite Shield									
3.3µH	±20	100KHz	2.26A	TKS2504CT-ND	3.17	2.44	1.83	—	636CY-3R3M
12µH	±20	100KHz	1.23A	TKS2508CT-ND	3.17	2.44	1.83	1110.00/1000	636CY-120M
82µH	±20	100KHz	.46A	TKS2547CT-ND	3.17	2.44	1.83	—	636CY-820M
D73F Type, Unshielded									
3.3µH	±20	100KHz	2.08A	TKS2523CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-3R3M
10µH	±20	100KHz	1.41A	TKS2526CT-ND	3.17	2.44	1.83	—	636FY-100M
18µH	±20	100KHz	1.00A	TKS2529CT-ND	2.27	1.75	1.32	—	636FY-180M
22µH	±20	100KHz	.93A	TKS2530CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-220M
47µH	±20	100KHz	.59A	TKS2534CT-ND	3.17	2.44	1.83	—	636FY-470M
68µH	±20	100KHz	.49A	TKS2536CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-680M
82µH	±20	100KHz	.44A	TKS2537CT-ND	2.27	1.75	1.32	—	636FY-820M
100µH	±20	100KHz	.38A	TKS2538CT-ND	3.17	2.44	1.83	1110.00/1000	636FY-101M
D75C Type, with Ferrite Shield									
120µH	± 20	100KHz	0.47A	TKS2560CT-ND	3.17	2.44	1.83	1110.00/1000	646CY-121M
180µH	± 20	100KHz	0.39A	TKS2562CT-ND	3.17	2.44	1.83	—	646CY-181M
D75F Type, Unshielded									
120µH	± 10	100KHz	0.42A	TKS2551CT-ND	2.27	1.75	1.32	—	646FY-121K
180µH	±10	100KHz	0.35A	TKS2553CT-ND	3.54	2.72	2.04	—	646FY-181K
220µH	±10	100KHz	0.29A	TKS2554CT-ND	3.54	2.72	2.04	1240.00/1000	646FY-221K
270µH	±10	100KHz	0.28A	TKS2555CT-ND	3.54	2.72	2.04	1240.00/1000	646FY-271K
390µH	±10	100KHz	0.215A	TKS2557CT-ND	3.54	2.72	2.04	1360.00/1000	646FY-391K
470µH	±10	100KHz	0.195A	TKS2558CT-ND	3.54	2.72	2.04	1240.00/1000	646FY-471K

★ For Tape and Reel part number, change CT-ND to TR-ND. † Self Resonance Frequency (MHz)

(Continued)

TOKO Fixed Surface Mount Inductors *(Cont.)*

32CS, 33CS, 36CS, D73C, D73F, D75C, D75F, D52FU, D62CB, D10F, D32FU and D124C Types *(Cont.)*

Induct. L Nom.	L Tol. (%)	SRF† (MHz)	DC Resistance (Ω)	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing★	Toko Part No.
					D52FU Type					
470µH	±20	5.17	6.78	140mA	TKS3500CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-471M
560µH	±20	4.83	9.43	125mA	TKS3501CT-ND	1.88	1.41	1.30	—	875FU-561M
680µH	±20	4.27	10.79	115mA	TKS3502CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-681M
820µH	±20	3.94	12.35	105mA	TKS3503CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-821M
1200µH	±20	3.17	18.64	88mA	TKS3505CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-122M
2200µH	±20	2.38	32.13	64mA	TKS3508CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-222M
2700µH	±20	2.11	37.61	61mA	TKS3509CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-272M
3900µH	±20	1.81	58.84	50mA	TKS3511CT-ND	1.88	1.41	1.30	1602.00/2000	875FU-392M
4700µH	±20	1.63	80.21	42mA	TKS3512CT-ND	1.88	1.41	1.30	—	875FU-472M
5600µH	±20	1.46	92.12	40mA	TKS3513CT-ND	1.88	1.41	1.30	—	875FU-562M

Induct. L (µH)	L Tol. (%)	DC Resistance (mΩ)	Max. DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing★	Toko Part No.
				D62CB Type					
3.3	±20	24	1.89A	TKS5513CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-3R3M
4.3	±20	31	1.65A	TKS5514CT-ND	3.22	2.48	1.86	—	A920CY-4R3M
18.0	±20	110	0.79A	TKS5519CT-ND	3.22	2.48	1.86	—	A920CY-180M
27.0	±20	170	0.64A	TKS5521CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-270M
39.0	±20	245	0.53A	TKS5523CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-390M
47.0	±20	290	0.48A	TKS5524CT-ND	3.22	2.48	1.86	1692.00/1500	A920CY-470M

Induct. L (µH)	L Tol. (%)	Test Freq.	DC Resistance (Ω)	Max. DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing★	Toko Part No.
					D10F Type					
12	±20	100KHz	0.050	2.48A	TKS5461CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-120M
15	±20	100KHz	0.058	2.27A	TKS5462CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-150M
18	±20	100KHz	0.067	2.15A	TKS5463CT-ND	4.78	3.68	2.76	—	A814AY-180M
33	±20	100KHz	0.095	1.72A	TKS5466CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-330M
39	±20	100KHz	0.12	1.58A	TKS5467CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-390M
56	±10	100KHz	0.18	1.28A	TKS5469CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-560K
150	±10	100KHz	0.40	0.80A	TKS5474CT-ND	4.78	3.68	2.76	—	A814AY-151K
180	±10	100KHz	0.53	0.73A	TKS5475CT-ND	4.78	3.68	2.76	920.00/500	A814AY-181K
270	±10	100KHz	0.84	0.60A	TKS5477CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-271K
390	±10	100KHz	1.09	0.49A	TKS5479CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-391K
470	±10	100KHz	1.25	0.46A	TKS5480CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-471K
560	±10	100KHz	1.63	0.41A	TKS5481CT-ND	4.78	3.68	2.76	—	A814AY-561K
680	±10	100KHz	1.90	0.38A	TKS5482CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-681K
1200	±10	100KHz	3.67	0.27A	TKS5485CT-ND	4.78	3.68	2.76	—	A814AY-122K
1500	±10	100KHz	4.37	0.25A	TKS5486CT-ND	4.78	3.68	2.76	1050.00/500	A814AY-152K

Induct. L (mH)	L Tol. (%)	DC Resistance (Ω)	Max. DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing★	Toko Part No.
				D32FU Type					
0.33	±20	9.7	109mA	TKS5530CT-ND	2.13	1.64	1.23	—	887FU-331M
0.39	±20	12	98mA	TKS5531CT-ND	2.13	1.64	1.23	—	887FU-391M
0.47	±20	14	90mA	TKS5532CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-471M
0.68	±20	20	74mA	TKS5534CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-681M
0.82	±20	30	71mA	TKS5535CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-821M
1.0	±20	34	66mA	TKS5536CT-ND	2.13	1.64	1.23	—	887FU-102M
1.2	±20	35	57mA	TKS5537CT-ND	2.13	1.64	1.23	1640.00/2000	887FU-122M
1.5	±20	56	52mA	TKS5538CT-ND	2.13	1.64	1.23	1320.00/2000	887FU-152M
1.8	±20	59	46mA	TKS5539CT-ND	2.13	1.64	1.23	1640.00/2000	887FU-182M
2.5	±20	81	42mA	TKS5541CT-ND	2.13	1.64	1.23	1640.00/2000	887FU-252M
2.7	±20	93	38mA	TKS5542CT-ND	2.13	1.64	1.23	1640.00/2000	887FU-272M

Induct. L (µH)	L Tol. (%)	Test Freq.	DC Resistance (Ω)	Max. DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Toko Part No.
					D124C Type				
8.2	±20	100KHz	19.0 (15.3)	4.4A	TKS5493CT-ND	6.24	4.80	3.60	892NAS-8R2M
47.0	±20	100KHz	94.5 (77.7)	1.7A	TKS5499CT-ND	6.24	4.80	3.60	892NBS-470M

★ For Tape and Reel part number, change CT-ND to TR-ND. † Self Resonance Frequency (MHz)

Surface Mount Inductors

43FS, 5CCD and 5CCE Types

43FS For reflow soldering type. Small size.

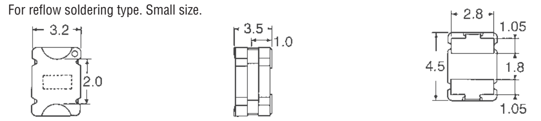

5CCD

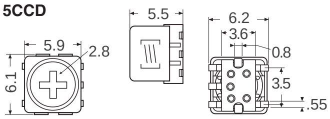

5CCE

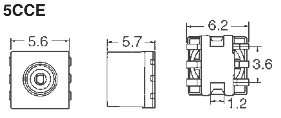

TK9999-ND	Ceramic Driver Holder	**$4.16**

L Nom.	Q Min.	Test Freq.	Rated DC Current	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel Pricing★	Toko Part No.
				43FS Type					
.22µH ± 20%	22	25.2MHz	190mA	TKS1205CT-ND	1.50	11.52	86.40	—	300NS-R22M
.56µH ± 20%	19	25.2MHz	145mA	TKS1210CT-ND	2.81	21.60	162.00	—	300NS-R56M
.68µH ± 20%	18	25.2MHz	140mA	TKS1211CT-ND	1.50	11.52	86.40	—	300NS-R68M
.82µH ± 20%	17	25.2MHz	135mA	TKS1212CT-ND	1.50	11.52	86.40	—	300NS-R82M
1.0µH ± 10%	50	7.96MHz	250mA	TKS1213CT-ND	2.81	21.60	162.00	—	300LS-1R0K
1.2µH ± 10%	50	7.96MHz	240mA	TKS1214CT-ND	2.81	21.60	162.00	540.00/500	300LS-1R2K
1.5µH ± 10%	50	7.96MHz	230mA	TKS1215CT-ND	2.81	21.60	162.00	575.00/500	300LS-1R5K
1.8µH ± 10%	50	7.96MHz	220mA	TKS1216CT-ND	2.81	21.60	162.00	540.00/500	300LS-1R8K
2.2µH ± 10%	50	7.96MHz	200mA	TKS1217CT-ND	2.81	21.60	162.00	—	300LS-2R2K
2.7µH ± 10%	50	7.96MHz	190mA	TKS1218CT-ND	2.81	21.60	162.00	—	300LS-2R7K
5.6µH ± 10%	50	7.96MHz	150mA	TKS1222CT-ND	2.81	21.60	162.00	575.00/500	300LS-5R6K
18.0µH ± 10%	50	2.52MHz	125mA	TKS1228CT-ND	2.81	21.60	162.00	575.00/500	300LS-180K
22.0µH ± 10%	50	2.52MHz	115mA	TKS1229CT-ND	2.81	21.60	162.00	575.00/500	300LS-220K
47.0µH ± 10%	50	2.52MHz	85mA	TKS1233CT-ND	2.81	21.60	162.00	575.00/500	300LS-470K
68.0µH ± 10%	50	2.52MHz	75mA	TKS1235CT-ND	2.81	21.60	162.00	575.00/500	300LS-680K
82.0µH ± 10%	50	2.52MHz	75mA	TKS1236CT-ND	2.81	21.60	162.00	540.00/500	300LS-820K
120µH ± 5%	50	796KHz	70mA	TKS1238CT-ND	2.81	21.60	162.00	575.00/500	300HS-121J
180µH ± 5%	50	796KHz	60mA	TKS1240CT-ND	2.81	21.60	162.00	540.00/500	300HS-181J
220µH ± 5%	50	796KHz	60mA	TKS1241CT-ND	2.81	21.60	162.00	—	300HS-221J
330µH ± 5%	50	796KHz	50mA	TKS1243CT-ND	2.81	21.60	162.00	575.00/500	300HS-331J
470µH ± 5%	50	796KHz	45mA	TKS1245CT-ND	2.81	21.60	162.00	575.00/500	300HS-471J
560µH ± 5%	50	796KHz	45mA	TKS1246CT-ND	2.81	21.60	162.00	—	300SS-561J
820µH ± 5%	50	796KHz	50mA	TKS1248CT-ND	2.81	21.60	162.00	575.00/500	300SS-821J
				5CCD Type					
8.2µH ± 3%	65	7.96MHz	—	TKS2253CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9082Z
22.0µH ± 3%	45	2.52MHz	—	TKS2258CT-ND	3.32	25.68	194.40	1168.00/1000	614BN-9220Z
82.0µH ± 3%	30	2.52MHz	—	TKS2265CT-ND	3.32	25.68	194.40	1284.00/1000	614AN-9820Z
100µH ± 3%	45	796KHz	—	TKS2266CT-ND	3.32	25.68	194.40	—	614AN-9101Z
120µH ± 3%	45	796KHz	—	TKS2267CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9121Z
180µH ± 3%	45	796KHz	—	TKS2269CT-ND	3.32	25.68	194.40	—	614AN-9181Z
220µH ± 3%	45	796KHz	—	TKS2270CT-ND	3.32	25.68	194.40	—	614AN-9221Z
330µH ± 3%	45	796KHz	—	TKS2272CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9331Z
390µH ± 3%	45	796KHz	—	TKS2273CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9391Z
560µH ± 3%	45	796KHz	—	TKS2275CT-ND	3.32	25.68	194.40	1284.00/1000	614AN-9561Z
820µH ± 3%	45	796KHz	—	TKS2277CT-ND	3.32	25.68	194.40	1168.00/1000	614AN-9821Z
				5CCE Type					
82nH ± 5%	63	100MHz	—	TKS2421CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0151Z
220nH ± 5%	60	100MHz	—	TKS2426CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0156Z
270nH ± 5%	72	100MHz	—	TKS2427CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0157Z
330nH ± 5%	75	100MHz	—	TKS2428CT-ND	5.80	46.40	348.00	—	A638AN-0158Z
470nH ± 5%	67	100MHz	—	TKS2430CT-ND	5.80	46.40	348.00	—	A638AN-0160Z
820nH ± 5%	48	30MHz	—	TKS2433CT-ND	5.80	46.40	348.00	—	A638AN-0163Z
1000nH ± 5%	50	30MHz	—	TKS2434CT-ND	5.80	46.40	348.00	2122.50/750	A638AN-0164Z
1200nH ± 5%	48	30MHz	—	TKS2435CT-ND	5.80	46.40	348.00	—	A638AN-0165Z
1500nH ± 5%	48	30MHz	—	TKS2436CT-ND	5.80	46.40	348.00	1305.00/750	A638AN-0166Z
1800nH ± 5%	47	30MHz	—	TKS2437CT-ND	5.80	46.40	348.00	—	A638AN-0167Z

★ For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Inductors

FSLU, FSLM, 3DF and 5CA Types

Features: FSLU – Conforms to EIA Standard 1008 footprint • Typical maximum Q: 40-50 • Proprietary wire-wound structure with welded terminations offers high reliability. • Operating Temperature Range: -40°C ~ 85°C • Superior solderability and high heat-resistance for flow and reflow soldering **FSLM** – Ferrite core wirewound inductor conforms to EIA Standard 1008 footprint. • Proprietary welded termination offers superior reliability and high heat-resistance for flow and reflow soldering capability. • Recommended for general signal conditioning, RF or IF filtering applications and as matching elements

FSLU
1008 Package

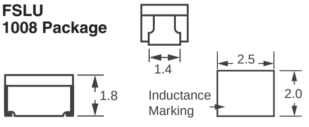

5CA

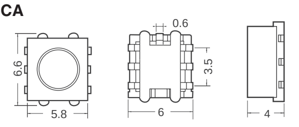

FSLM 1008 Package

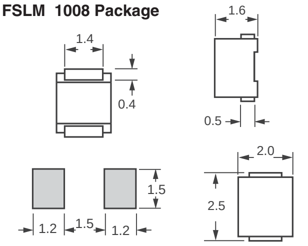

3DF

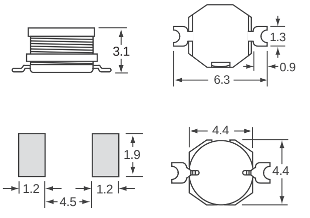

L Nom.	Tol.	Q Min.	Test Freq.	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing★	Toko Part No.
					FSLU Type					
.010µH	±10%	15	100MHz	730mA	TKS2649CT- ND	1.36	1.20	1.08	480.00/2000	FSLU2520-10NK
.012µH	±10%	15	100MHz	690mA	TKS2650CT-ND	1.36	1.20	1.08	640.00/2000	FSLU2520-12NK
.015µH	±10%	15	100MHz	660mA	TKS2651CT-ND	1.36	1.20	1.08	640.00/2000	FSLU2520-15NK
.018µH	±10%	15	100MHz	600mA	TKS2652CT-ND	1.36	1.20	1.08	640.00/2000	FSLU2520-18NK
.022µH	±10%	15	100MHz	550mA	TKS2653CT-ND	1.36	1.20	1.08	640.00/2000	FSLU2520-22NK
.027µH	±10%	15	100MHz	520mA	TKS2654CT-ND	1.36	1.20	1.08	640.00/2000	FSLU2520-27NK
.033µH	±10%	20	100MHz	480mA	TKS2655CT-ND	1.36	1.20	1.08	—	FSLU2520-33NK
.039µH	±10%	20	100MHz	460mA	TKS2656CT-ND	1.36	1.20	1.08	—	FSLU2520-39NK
.047µH	±10%	20	100MHz	440mA	TKS2657CT-ND	1.36	1.20	1.08	640.00/2000	FSLU2520-47NK
.056µH	±10%	20	100MHz	420mA	TKS2658CT-ND	1.36	1.20	1.08	640.00/2000	FSLU2520-56NK
.082µH	±10%	20	100MHz	390mA	TKS2660CT-ND	1.36	1.20	1.08	480.00/2000	FSLU2520-82NK
0.1µH	±10%	30	25.2MHz	540mA	TKS2661CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R10K
.12µH	±10%	30	25.2MHz	500mA	TKS2662CT-ND	1.36	1.20	1.08	—	FSLU2520-R12K
.15µH	±10%	30	25.2MHz	480mA	TKS2663CT-ND	1.36	1.20	1.08	—	FSLU2520-R15K
.18µH	±10%	30	25.2MHz	430mA	TKS2664CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-R18K
.22µH	±10%	30	25.2MHz	420mA	TKS2665CT-ND	1.36	1.20	1.08	—	FSLU2520-R22K
.27µH	±10%	30	25.2MHz	410mA	TKS2666CT-ND	1.36	1.20	1.08	480.00/2000	FSLU2520-R27K

★ For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

TOKO Surface Mount Inductors *(Cont.)*

FSLU, FSLM, 3DF and 5CA Types *(Cont.)*

L Nom.	Tol.	Q Min.	Test Freq.	Rated DC Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing★	Toko Part No.
.33µH	±10%	30	25.2MHz	380mA	TKS2667CT-ND	1.36	1.20	1.08	—	FSLU2520-R33K
.39µH	±10%	30	25.2MHz	360mA	TKS2668CT-ND	1.36	1.20	1.08	—	FSLU2520-R39K
.68µH	±10%	30	25.2MHz	320mA	TKS2671CT-ND	1.36	1.20	1.08	—	FSLU2520-R68K
1.2µH	±5%	25	7.96MHz	235mA	TKS2621CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-1R2J
1.5µH	±5%	25	7.96MHz	230mA	TKS2622CT-ND	1.36	1.20	1.08	640.00/2000	FSLU2520-1R5J
1.8µH	±5%	25	7.96MHz	220mA	TKS2623CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-1R8J
2.7µH	±5%	25	7.96MHz	200mA	TKS2625CT-ND	1.36	1.20	1.08	—	FSLU2520-2R7J
3.9µH	±5%	25	7.96MHz	185mA	TKS2627CT-ND	1.36	1.20	1.08	480.00/2000	FSLU2520-3R9J
5.6µH	±5%	20	7.96MHz	175mA	TKS2629CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-5R6J
6.8µH	±5%	20	7.96MHz	165mA	TKS2630CT-ND	1.36	1.20	1.08	—	FSLU2520-6R8J
8.2µH	±5%	20	7.96MHz	160mA	TKS2631CT-ND	1.36	1.20	1.08	—	FSLU2520-8R2J
18µH	±5%	20	2.52MHz	135mA	TKS2635CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-180J
47µH	±5%	20	2.52MHz	80mA	TKS2640CT-ND	1.36	1.20	1.08	480.00/2000	FSLU2520-470J
100µH	±5%	15	0.796MHz	60mA	TKS2644CT-ND	1.36	1.20	1.08	520.00/2000	FSLU2520-101J
120µH	±5%	15	0.796MHz	52mA	TKS2645CT-ND	1.36	1.20	1.08	480.00/2000	FSLU2520-121J
FSLM Type										
0.12µH	±5%	30	25.2MHz	550mA	TKS3601CT-ND	.85	.75	.67	—	FSLM2520-R12J
0.15µH	±5%	30	25.2MHz	500mA	TKS3602CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R15J
0.18µH	±5%	30	25.2MHz	460mA	TKS3603CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R18J
0.47µH	±5%	30	25.2MHz	350mA	TKS3607CT-ND	.85	.75	.67	—	FSLM2520-R47J
0.56µH	±5%	30	25.2MHz	330mA	TKS3608CT-ND	.85	.75	.67	500.00/2000	FSLM2520-R56J
1.5µH	±5%	30	7.96MHz	230mA	TKS3613CT-ND	.85	.75	.67	500.00/2000	FSLM2520-1R5J
1.8µH	±5%	30	7.96MHz	220mA	TKS3614CT-ND	.85	.75	.67	500.00/2000	FSLM2520-1R8J
12µH	±5%	25	2.52MHz	150mA	TKS3624CT-ND	.85	.75	.67	—	FSLM2520-120J
3DF Type										
95µH	—	—	100KHz	21mA	TKS1200-ND	1.31	1.30	1.22	—	682AE-014=P3
5CA Type										
1.2 mH	—	70	252 KHz	54mA	TKS2318CT-ND	4.46	3.54	2.59	3400.00/2000	395GN-0091IB=P3

★ For Tape and Reel part number, change CT-ND to TR-ND.

Fixed Inductors

7BA

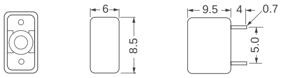

8RB

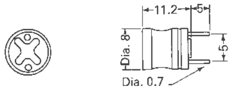

8RBS Low Profile

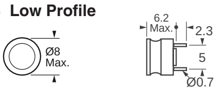

8RHB

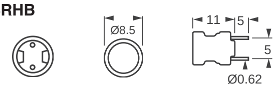

10RHB2

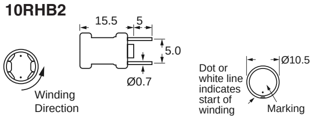

10RB

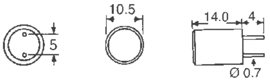

L. Nom.	Test Freq.	Q. Min.	Rated DC Current	Digi-Key Part No.	Price Each 1	10	100	500	Toko Part No.
7BA Type									
1.6µH	7.96MHz	30	30mA	TK4205-ND	.56	.50	.45	.42	144LY-1R6K
3.3µH	7.96MHz	30	30mA	TK4212-ND	1.95	1.45	1.31	.98	144LY-3R3K
8.2µH	7.96MHz	30	30mA	TK4222-ND	1.95	1.45	1.31	.98	144LY-8R2K
20µH	2.52MHz	30	30mA	TK4231-ND	1.95	1.45	1.31	.98	144LY-200J
1000µH	796KHz	30	30mA	TK4283-ND	1.95	1.45	1.31	.98	144HY-102J
8RB Type									
.15mH	796KHz	80	200mA	TK4302-ND	2.04	1.67	.83	.70	187LY-151J
.18mH	796KHz	80	200mA	TK4303-ND	2.04	1.67	.83	.70	187LY-181J
.22mH	796KHz	80	200mA	TK4304-ND	.76	.68	.61	.56	187LY-221J
.33mH	796KHz	80	200mA	TK4306-ND	2.04	1.67	.83	.70	187LY-331J
.56mH	796KHz	80	200mA	TK4309-ND	2.04	1.67	.83	.70	187LY-561J
1.0mH	252KHz	80	150mA	TK4312-ND	2.04	1.67	.83	.70	187LY-102J
6.8mH	252KHz	90	50mA	TK4322-ND	2.04	1.67	.83	.70	187LY-682J
15mH	79.6KHz	100	40mA	TK4326-ND	2.04	1.67	.83	.70	187LY-153J
18mH	79.6KHz	100	30mA	TK4327-ND	2.04	1.67	.83	.70	187LY-183J
8RBS Type Low Profile									
1.5mH	252kHz	80	50mA	TK4394-ND	2.41	1.71	.98	.82	262LY-152K
2.2mH	252kHz	80	50mA	TK4396-ND	2.41	1.71	.98	.82	262LY-222K
8RHB Type									
1.5µH	7.96MHz	20	8.5A	TK4431-ND	2.51	2.04	1.02	.85	622LY-1R5M
4.7µH	7.96MHz	20	4.3A	TK4434-ND	2.51	2.04	1.02	.85	622LY-4R7M
220µH	0.796MHz	20	0.64A	TK4452-ND	2.51	2.04	1.02	.85	622LY-221K
1000µH	0.252MHz	50	0.29A	TK4460-ND	2.51	2.04	1.02	.85	622LY-102K

L. Nom.	Test Freq.	SRF	Rated DC Current	Digi-Key Part No.	Price Each 1	10	100	500	Toko Part No.
10RHB2 Type									
12µH	1kHz	33.0MHz	2.00A	TK5153-ND	5.57	4.77	2.25	1.89	824MY-120K
15µH	1kHz	25.0MHz	1.93A	TK5154-ND	5.57	4.77	2.25	1.89	824MY-150K
18µH	1kHz	16.0MHz	1.77A	TK5155-ND	5.57	4.77	2.25	1.89	824MY-180K
27µH	1kHz	8.30MHz	1.56A	TK5157-ND	5.57	4.77	2.25	1.89	824MY-270K
33µH	1kHz	5.90MHz	1.49A	TK5158-ND	5.57	4.77	2.25	1.89	824MY-330K
39µH	1kHz	4.90MHz	1.40A	TK5159-ND	5.57	4.77	2.25	1.89	824MY-390K
82µH	1kHz	3.60MHz	1.04A	TK5163-ND	5.57	4.77	2.25	1.89	824MY-820K
120µH	1kHz	2.60MHz	0.94A	TK5165-ND	5.57	4.77	2.25	1.89	824MY-121K
470µH	1kHz	1.30MHz	0.48A	TK5172-ND	5.57	4.77	2.25	1.89	824MY-471K
680µH	1kHz	1.10MHz	0.44A	TK5174-ND	5.57	4.77	2.25	1.89	824MY-681K
1000µH	1kHz	0.87MHz	0.31A	TK5176-ND	5.57	4.77	2.25	1.89	824MY-102K
1200µH	1kHz	0.83MHz	0.28A	TK5177-ND	5.57	4.77	2.25	1.89	824MY-122K
1500µH	1kHz	0.77MHz	0.27A	TK5178-ND	5.57	4.77	2.25	1.89	824MY-152K
1800µH	1kHz	0.71MHz	0.24A	TK5179-ND	5.57	4.77	2.25	1.89	824MY-182K
2700µH	1kHz	0.61MHz	0.19A	TK5181-ND	5.57	4.77	2.25	1.89	824MY-272K
3300µH	1kHz	0.52MHz	0.18A	TK5182-ND	5.57	4.77	2.25	1.89	824MY-332K
3900µH	1kHz	0.48MHz	0.16A	TK5183-ND	5.57	4.77	2.25	1.89	824MY-392K

L. Nom.	Test Freq.	Q. Min.	Rated DC Current	Digi-Key Part No.	Price Each 1	10	100	500	Toko Part No.
10RB Type									
2.2mH	50KHz	70	60mA	TK4404-ND	3.75	3.06	1.52	1.28	181LY-222J
18mH	50KHz	100	22mA	TK4415-ND	3.75	3.06	1.52	1.28	181LY-183J

Molded Coils

MC120

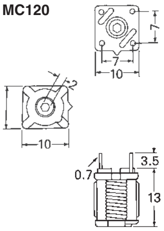

MC122

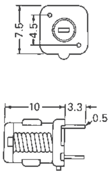

MC134

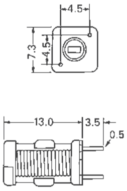

SMT MC152

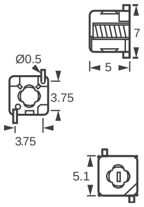

TK9996-ND Ceramic Tuning Driver (MC120) (Requires Holder TK9999-ND, below)............**$31.39**
TK9999-ND Ceramic Driver Holder **$4.16**

Turns/ Color	L Nom.	Test Freq.	Q. Min.	Digi-Key Part No.	Pricing 1	10	100	500	Toko Part No.
MC120 with Case									
2 1/2 RED	.065µH	100MHz	90	TK2702-ND	5.44	47.60	207.00	775.00	E526HNA-100295
3 1/2 ORG	.0994µH	100MHz	100	TK2703-ND	5.44	47.60	207.00	775.00	E526HNA-100296
4 1/2 YEL	.141µH	100MHz	100	TK2704-ND	5.44	47.60	207.00	775.00	E526HNA-100297
7 1/2 VIO	.241µH	50MHz	80	TK2707-ND	5.44	47.60	207.00	775.00	E526HNA-100300
8 1/2 GRY	.29µH	50MHz	80	TK2708-ND	5.44	47.60	207.00	775.00	E526HNA-100301
1 1/2 BRW	.0367µH	100MHz	80	TK2710-ND	5.44	47.60	207.00	775.00	E526HNA-100310
5 1/2 GRN	.137µH	100MHz	110	TK2714-ND	5.44	47.60	207.00	775.00	E526HNA-100314
MC120 without Case									
1 1/2 BRW	.0461µH	100MHz	120	TK2715-ND	5.44	47.60	207.00	775.00	E526HN-100302
2 1/2 RED	.0845µH	100MHz	130	TK2716-ND	5.44	47.60	207.00	775.00	E526HN-100303
3 1/2 ORG	.13µH	100MHz	130	TK2717-ND	5.44	47.60	207.00	775.00	E526HN-100304
4 1/2 YEL	.195µH	100MHz	140	TK2718-ND	5.44	47.60	207.00	775.00	E526HN-100305
5 1/2 GRN	.241µH	50MHz	100	TK2719-ND	5.44	47.60	207.00	775.00	E526HN-100306
6 1/2 BLU	.317µH	50MHz	100	TK2720-ND	5.44	47.60	207.00	775.00	E526HN-100307
7 1/2 VIO	.358µH	50MHz	100	TK2721-ND	5.44	47.60	207.00	775.00	E526HN-100308
8 1/2 GRY	.441µH	50MHz	100	TK2722-ND	5.44	47.60	207.00	775.00	E526HN-100309
9 1/2 WHT	.534µH	50MHz	100	TK2723-ND	5.44	47.60	207.00	775.00	E526HN-100109
1 1/2 BRW	.0437µH	100MHz	100	TK2724-ND	5.44	47.60	207.00	775.00	E526HN-100315
2 1/2 RED	.0745µH	100MHz	150	TK2725-ND	5.44	47.60	207.00	775.00	E526HN-100316
3 1/2 ORG	.118µH	100MHz	170	TK2726-ND	5.44	47.60	207.00	775.00	E526HN-100317
4 1/2 YEL	.154µH	100MHz	180	TK2727-ND	5.44	47.60	207.00	775.00	E526HN-100318
5 1/2 GRN	.211µH	100MHz	190	TK2728-ND	5.44	47.60	207.00	775.00	E526HN-100319
MC122 with Case									
2 1/2 RED	.0523µH	100MHz	80	TK2802-ND	2.96	25.90	113.00	425.00	E528SNAS-100073
3 1/2 ORG	.078µH	100MHz	90	TK2803-ND	2.96	25.90	113.00	425.00	E528SNAS-100074
4 1/2 YEL	.108µH	100MHz	90	TK2804-ND	2.96	25.90	113.00	425.00	E528SNAS-100075
MC122 without Case									
1 1/2 WHT	.0352µH	100MHz	90	TK2814-ND	2.96	25.90	113.00	425.00	E528SN-100059
2 1/2 RED	.0604µH	100MHz	110	TK2815-ND	2.96	25.90	113.00	425.00	E528SN-100060
4 1/2 YEL	.137µH	100MHz	120	TK2817-ND	2.96	25.90	113.00	425.00	E528SN-100062
3 1/2 ORG	.0918µH	57MHz	100	TK2819-ND	2.96	25.90	113.00	425.00	E528SN-100064
4 1/2 YEL	.130µH	57MHz	100	TK2820-ND	2.96	25.90	113.00	425.00	E528SN-100065
10 1/2 ORG	.447µH	45MHz	70	TK2826-ND	2.96	25.90	113.00	425.00	E528SN-100071
MC134 with Case									
10 1/2 BLK	.260µH	50MHz	50	TK3001-ND	4.48	39.20	171.03	643.24	E540SNA-10005
11 1/2 BRW	.294µH	50MHz	50	TK3002-ND	4.48	39.20	171.03	643.24	E540SNA-11003
12 1/2 RED	.317µH	50MHz	60	TK3003-ND	4.48	39.20	171.03	643.24	E540SNA-12003
13 1/2 ORG	.350µH	50MHz	60	TK3004-ND	4.48	39.20	171.03	643.24	E540SNA-13003
14 1/2 YEL	.383µH	50MHz	55	TK3005-ND	4.48	39.20	171.03	643.24	E540SNA-14002
15 1/2 GRN	.422µH	50MHz	80	TK3006-ND	4.48	39.20	171.03	643.24	E540SNA-15002
MC134 without Case									
10 1/2 BLK	.398µH	50MHz	80	TK3007-ND	4.48	39.20	171.03	643.24	E540SN-10004
11 1/2 BRW	.451µH	50MHz	80	TK3008-ND	4.48	39.20	171.03	643.24	E540SN-11002
12 1/2 RED	.483µH	50MHz	80	TK3009-ND	4.48	39.20	171.03	643.24	E540SN-12002
14 1/2 YEL	.603µH	50MHz	80	TK3011-ND	4.48	39.20	171.03	643.24	E540SN-14001
15 1/2 GRN	.685µH	50MHz	80	TK3012-ND	4.48	39.20	171.03	643.24	E540SN-15001

(Continued)

TOKO Molded Coils *(Cont.)*

Turns/ Color	L Nom.	Test Freq.	Q. Min.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T & R Pricing 1,500	Toko Part No.
MC152 Ferrite Core — Surface Mount										
1 1/2 WHT	.032µH	100MHz	90	TKS2700CT-ND	3.95	34.80	310.00	TKS2700TR-ND	2370.00	E558CN-100020
3 1/2 ORG	.068µH	100MHz	110	TKS2702CT-ND	3.95	34.80	310.00	—	—	E558CN-100022
4 1/2 YEL	.090µH	100MHz	115	TKS2703CT-ND	3.95	34.80	310.00	TKS2703TR-ND	2370.00	E558CN-100023
6 1/2 BLU	.142µH	100MHz	120	TKS2705CT-ND	3.95	34.80	310.00	TKS2705TR-ND	2370.00	E558CN-100025
MC152 Air Core — Surface Mount										
2 1/2 VIO	.046µH	100MHz	100	TKS2707CT-ND	1.48	13.04	98.78	—	—	E558HN-100097
4 1/2 YEL	.073µH	100MHz	105	TKS2709CT-ND	1.48	13.04	98.78	TKS2709TR-ND	2370.00	E558HN-100099
5 1/2 WHT	.091µH	100MHz	120	TKS2710CT-ND	1.48	13.04	98.78	—	—	E558HN-100100
MC152 Brass Core — Surface Mount										
3 1/2 ORG	.048µH	100MHz	56	TKS2714CT-ND	3.95	34.80	310.00	TKS2714TR-ND	2370.00	E558AN-100042
5 1/2 WHT	.072µH	100MHz	50	TKS2716CT-ND	2.28	20.08	152.11	—	—	E558AN-100044
6 1/2 BLU	.084µH	100MHz	50	TKS2717CT-ND	2.28	20.08	152.11	—	—	E558AN-100045

Coils

5K

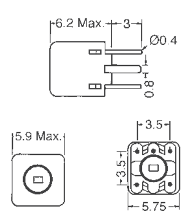

5P, 5PH

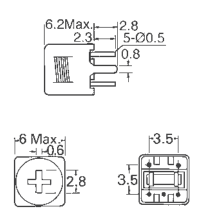

7KMM

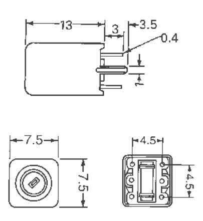

7P, 7PA, 7PH

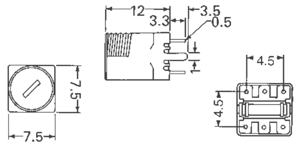

Diagrams

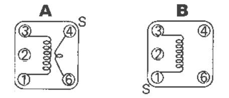

TK9999-ND Ceramic Driver Holder **$4.16**

Dia-gram	L Nom.	Test Freq.	Q. Min.	Digi-Key Part No.	Pricing 1	10	100	500	Toko Part No.
5K Type									
B	.08µH	75.0MHz	45	TK5001-ND	4.85	41.23	325.80	974.50	294SN-T1008Z
	.22µH	45.0MHz	45	TK5004-ND	4.85	41.23	325.80	974.50	294SN-T1011Z
	.33µH	45.0MHz	45	TK5005-ND	4.85	41.23	325.80	974.50	294SN-T1012Z
	.47µH	45.0MHz	45	TK5006-ND	4.85	41.23	325.80	974.50	294SN-T1013Z
	.68µH	45.0MHz	45	TK5007-ND	4.85	41.23	325.80	974.50	294SN-T1014Z
	1.00µH	30.0MHz	45	TK5008-ND	4.85	41.23	325.80	974.50	294SN-T1015Z
5P Type									
B	33µH	2.52MHz	40	TK5110-ND	5.14	44.28	350.00	1040.00	5PNR-T1005Z
	39µH	2.52MHz	40	TK5111-ND	5.14	44.28	350.00	1040.00	5PNR-T1006Z
	47µH	2.52MHz	40	TK5112-ND	5.14	44.28	350.00	1040.00	5PNR-T1007Z
	68µH	2.52MHz	40	TK5114-ND	5.14	44.28	350.00	1040.00	5PNR-T1009Z
	82µH	2.52MHz	40	TK5115-ND	5.14	44.28	350.00	1040.00	5PNR-T1010Z
	120µH	.796MHz	40	TK5117-ND	5.14	44.28	350.00	1040.00	5PNR-T1012Z
	150µH	.796MHz	40	TK5118-ND	5.14	44.28	350.00	1040.00	5PNR-T1013Z
	270µH	.796MHz	40	TK5121-ND	5.14	44.28	350.00	1040.00	5PNR-T1016Z
	390µH	.796MHz	40	TK5123-ND	5.14	44.28	350.00	1040.00	5PNR-T1018Z
	470µH	.796MHz	40	TK5124-ND	5.14	44.28	350.00	1040.00	5PNR-T1019Z
	560µH	.796MHz	40	TK5125-ND	5.14	44.28	350.00	1040.00	5PNR-T1020Z
5PH Type									
B	1.5µH	7.96MHz	55	TK5132-ND	4.21	36.23	287.00	855.00	332PN-T1014Z
	1.8µH	7.96MHz	55	TK5133-ND	4.21	36.23	287.00	855.00	332PN-T1015Z
	2.7µH	7.96MHz	55	TK5135-ND	4.21	36.23	287.00	855.00	332PN-T1017Z
	3.9µH	7.96MHz	55	TK5137-ND	4.21	36.23	287.00	855.00	332PN-T1019Z
	4.7µH	7.96MHz	55	TK5138-ND	4.21	36.23	287.00	855.00	332PN-T1020Z
	6.8µH	7.96MHz	55	TK5140-ND	4.21	36.23	287.00	855.00	332PN-T1022Z
7KMM Type									
B	0.1µH	50.0MHz	35	TK3101-ND	5.61	48.30	383.00	1140.00	292KNAS-T1028Z
	0.15µH	50.0MHz	35	TK3102-ND	5.61	48.30	383.00	1140.00	292KNAS-T1030Z
	0.33µH	50.0MHz	50	TK3104-ND	5.61	48.30	383.00	1140.00	292KNAS-T1034Z
	0.68µH	50.0MHz	50	TK3106-ND	5.61	48.30	383.00	1140.00	292KNAS-T1038Z
	1.5µH	7.96MHz	40	TK3108-ND	5.61	48.30	383.00	1140.00	292CNS-T1042Z
	2.2µH	7.96MHz	40	TK3109-ND	5.61	48.30	383.00	1140.00	292CNS-T1044Z
	3.3µH	7.96MHz	40	TK3110-ND	5.61	48.30	383.00	1140.00	292CNS-T1046Z
	4.7µH	7.96MHz	40	TK3111-ND	5.61	48.30	383.00	1140.00	292CNS-T1048Z
	6.6µH	4.0MHz	85	TK3115-ND	2.10	18.90	168.00	777.00	MF292CNS-T1082Z
	0.18µH	50.0MHz	35	TK3117-ND	5.61	48.30	383.00	1140.00	292KNAS-T1031Z
	0.27µH	50.0MHz	50	TK3118-ND	5.61	48.30	383.00	1140.00	292KNAS-T1033Z
	0.39µH	50.0MHz	50	TK3119-ND	5.61	48.30	383.00	1140.00	292KNAS-T1035Z
	0.56µH	50.0MHz	50	TK3120-ND	5.61	48.30	383.00	1140.00	292KNAS-T1037Z
	1.2µH	7.96MHz	40	TK3122-ND	5.61	48.30	383.00	1140.00	292CNS-T1041Z
	12.0µH	2.52MHz	35	TK3128-ND	5.61	50.40	383.00	1140.00	F292CNS-T1053Z
	22.0µH	2.52MHz	35	TK3130-ND	5.61	50.40	383.00	1140.00	F292CNS-T1056Z
	33.0µH	2.52MHz	35	TK3132-ND	5.61	50.40	383.00	1140.00	F292CNS-T1058Z
	56.0µH	2.52MHz	35	TK3135-ND	2.10	18.90	168.00	777.00	F292CNS-T1061Z
	68.0µH	2.52MHz	35	TK3136-ND	2.10	18.90	168.00	777.00	F292CNS-T1062Z

Dia-gram	L Nom.	Test Freq.	Q. Min.	Digi-Key Part No.	Pricing 1	10	100	500	Toko Part No.
7KMM High Frequency Type									
B	0.08µH	80.0MHz	50	TK3138-ND	5.61	48.30	383.00	1140.00	292SNS-T1365Z
	0.10µH	80.0MHz	50	TK3139-ND	5.61	48.30	383.00	1140.00	292SNS-T1366Z
	0.15µH	80.0MHz	60	TK3140-ND	5.61	48.30	383.00	1140.00	292SNS-T1367Z
	0.22µH	80.0MHz	60	TK3141-ND	5.61	48.30	383.00	1140.00	292SNS-T1368Z
	0.33µH	80.0MHz	60	TK3142-ND	5.61	48.30	383.00	1140.00	292SNS-T1369Z
	0.47µH	50.0MHz	60	TK3143-ND	5.61	48.30	383.00	1140.00	292SNS-T1370Z
	0.68µH	50.0MHz	60	TK3144-ND	5.61	48.30	383.00	1140.00	292SNS-T1371Z
	1.00µH	7.96MHz	40	TK3145-ND	5.61	48.30	383.00	1140.00	292KNS-T1372Z
	1.50µH	7.96MHz	40	TK3146-ND	5.61	48.30	383.00	1140.00	292KNS-T1373Z
	2.20µH	7.96MHz	40	TK3147-ND	5.61	48.30	383.00	1140.00	292KNS-T1374Z
	3.30µH	7.96MHz	40	TK3148-ND	5.61	48.30	383.00	1140.00	292KNS-T1375Z
	4.70µH	7.96MHz	40	TK3149-ND	5.61	48.30	383.00	1140.00	292KNS-T1376Z
7P Type									
B	100µH	796KHz	80	TK2417-ND	4.20	37.80	287.00	850.00	A7BRS-T1040Z
	120µH	796KHz	80	TK2418-ND	4.20	37.80	287.00	850.00	A7BRS-T1041Z
	180µH	796KHz	80	TK2420-ND	4.20	37.80	287.00	850.00	A7BRS-T1043Z
	270µH	796KHz	80	TK2422-ND	4.20	37.80	287.00	850.00	A7BRS-T1045Z
7PA Type									
B	1.5mH	252KHz	60	TK3203-ND	4.74	40.83	323.00	960.00	126ANS-T1096Z
	1.8mH	252KHz	60	TK3204-ND	4.74	40.83	323.00	960.00	126ANS-T1097Z
	4.7mH	252KHz	60	TK3209-ND	4.74	40.83	323.00	960.00	126ANS-T1102Z
	5.6mH	252KHz	60	TK3210-ND	4.74	40.83	323.00	960.00	126ANS-T1103Z
	6.8mH	252KHz	60	TK3211-ND	4.74	40.83	323.00	960.00	126ANS-T1104Z
	10.0mH	79.6KHz	60	TK3213-ND	4.74	40.83	323.00	960.00	126ANS-T1106Z
	12.0mH	79.6KHz	60	TK3214-ND	4.74	40.83	323.00	960.00	126ANS-T1107Z
	18.0mH	79.6KHz	60	TK3216-ND	4.74	40.83	323.00	960.00	126ANS-T1109Z
	5mH	252KHz	70	TK3218-ND	4.74	40.83	323.00	960.00	126LNS-6285Z
7PH Type									
B	5.6µH	7.96MHz	80	TK2402-ND	4.31	37.38	294.00	875.00	A119ANS-T1030Z
	10.0µH	2.52MHz	80	TK2405-ND	4.31	37.38	294.00	875.00	A119ANS-T1033Z
	15.0µH	2.52MHz	80	TK2407-ND	4.31	37.38	294.00	875.00	A119ANS-T1035Z
	27.0µH	2.52MHz	80	TK2410-ND	4.31	37.38	294.00	875.00	A119ANS-T1038Z
	33.0µH	2.52MHz	80	TK2411-ND	4.31	37.38	294.00	875.00	A119ANS-T1039Z
	39.0µH	2.52MHz	80	TK2412-ND	4.31	37.38	294.00	875.00	A119ANS-T1040Z
	56.0µH	2.52MHz	80	TK2414-ND	4.31	37.38	294.00	875.00	A119ANS-T1042Z
	10.7µH	2.52MHz	95	TK2427-ND	4.31	37.38	294.00	875.00	A119ANS-17152Z
—	10.7µH	2.52MHz	90	TK2428-ND	1.63	14.63	130.00	601.25	A119ANS-17153Y
B	11.8µH	2.52MHz	114	TK2429-ND	1.63	14.63	130.00	601.25	A119AN-T1018Z
—	10.9µH	4.4MHz	80	TK2430-ND	1.63	14.63	130.00	601.25	119LNS-A3753GO
A	12.5µH	4.4MHz	90	TK2431-ND	4.31	37.38	294.00	875.00	119LNS-A4451DY

Coils

10EZ

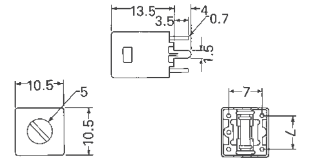

10K

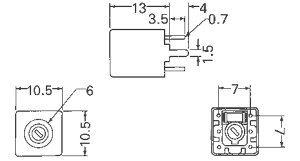

10PA

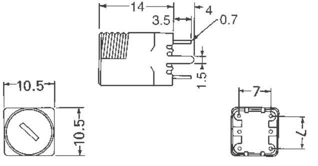

12VXA

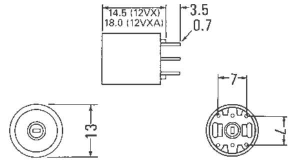

Diagrams

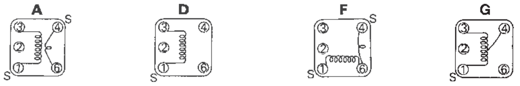

TK9999-ND Ceramic Driver Holder **$4.16**

Dia-Gram	L Nom.	Test Freq.	Q. Min.	Digi-Key Part No.	Pricing 1	10	100	500	Toko Part No.
10EZ Type									
D	1200µH	252KHz	50	TK1232-ND	3.46	31.20	236.00	700.00	RUNS-T1028Z
10K Type									
D	0.15µH	75MHz	60	TK1404-ND	4.12	37.20	281.00	835.00	BTKENS-T1045Z
	0.47µH	45MHz	70	TK1408-ND	4.12	37.20	281.00	835.00	BTKXNS-T1048Z
	1.5µH	7.96MHz	60	TK1412-ND	4.12	37.20	281.00	835.00	BTKANS-9449HM
F	0.16µH	27MHz	65	TK1418-ND	1.55	13.95	124.00	573.50	KXN-K4636BJF
G	66µH	2.52MHz	60	TK1421-ND	4.12	37.20	281.00	835.00	BKANS-K4087HU
10PA Type									
D	1.35mH	200KHz	70	TK1701-ND	3.75	33.60	255.00	760.00	CAN-1A901HM
	5.6mH	252KHz	80	TK1712-ND	3.75	33.60	255.00	760.00	CLNS-T1027Z
	15.0mH	79.6KHz	70	TK1717-ND	3.75	33.60	255.00	760.00	CLNS-T1032Z
	27.0mH	79.6KHz	70	TK1720-ND	3.75	33.60	255.00	760.00	CLNS-T1035Z
	39.0mH	79.6KHz	70	TK1722-ND	3.75	33.60	255.00	760.00	CLNS-T1037Z
	47.0mH	79.6KHz	70	TK1723-ND	3.75	33.60	255.00	760.00	CLNS-T1038Z
	56.0mH	79.6KHz	70	TK1724-ND	3.75	33.60	255.00	760.00	CLNS-T1039Z
12VXA Type									
A	1.0mH	252KHz	25	TK2001-ND	4.70	40.02	316.30	945.50	707VX-A062AO

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RL822 Series
Features: • High current capacity • Ferrite bobbin core • Low core loss • High reliability, high efficiency. • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies •DC-DC converters. • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL187 Series
Features: • High Q • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies •DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL622 Series
Features: • High current capacity • Ferrite bobbin core • Low core loss • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: 55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL181S Series
Features: • Ferrite shield for low radiation • High Q • High reliability, high efficiency • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies •DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL262 Series
Features: • High Q • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL824 Series
Features: • High current capacity • Ferrite bobbin core • Low core loss • High reliability, high efficiency • Winding covered with shrink tubing • Operating temperature: -55°C ~ 105°C **Applications:** • Switch mode power supplies • DC-DC converters • Desktop, notebook computers, servers • Digital TV, DVD, cable modems, DSS set-top boxes • Battery chargers • Output chokes • EMI filters

RL822 Series

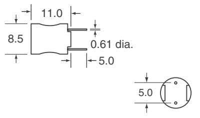

RL187 Series

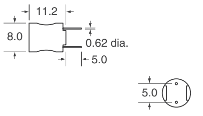

RL622 Series

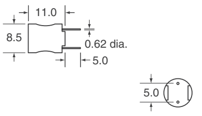

RL181S Series

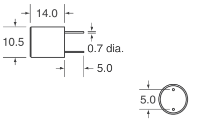

RL262 Series

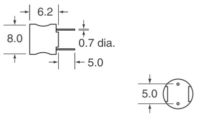

RL824 Series

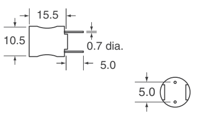

L(μH) ±5% @1KHz	Q (Min.) @50KHz	Test Freq. (KHz)	SRF (MHz) Min.	DCR (Ω) Max.	I, DC (mA)	Digi-Key Part No	Price Each					JW Miller Part No.
							1	10	25	50	100	
RL822 Series												
1.0	—	—	150	0.013	3.71	M9957-ND	1.18	.94	.71	.59	.47	RL822-1R0K-RC
3.3	—	—	79	0.025	2.66	M9958-ND	1.18	.94	.71	.59	.47	RL822-3R3K-RC
4.7	—	—	51	0.030	2.27	M9959-ND	1.18	.94	.71	.59	.47	RL822-4R7K-RC
10	—	—	14	0.045	1.96	M9960-ND	1.18	.94	.71	.59	.47	RL822-100K-RC
15	—	—	12	0.058	1.75	M9961-ND	1.18	.94	.71	.59	.47	RL822-150K-RC
22	—	—	9.2	0.070	1.29	M9962-ND	1.18	.94	.71	.59	.47	RL822-220K-RC
47	—	—	6.5	0.17	0.79	M9963-ND	1.18	.94	.71	.59	.47	RL822-470K-RC
56	—	—	5.4	0.20	0.76	M9964-ND	1.18	.94	.71	.59	.47	RL822-560K-RC
68	—	—	4.9	0.22	0.70	M9965-ND	1.18	.94	.71	.59	.47	RL822-680K-RC
100	—	—	3.7	0.28	0.58	M9966-ND	1.18	.94	.71	.59	.47	RL822-101K-RC
150	—	—	3.2	0.54	0.42	M9967-ND	1.18	.94	.71	.59	.47	RL822-151K-RC
220	—	—	2.7	0.68	0.38	M9968-ND	1.18	.94	.71	.59	.47	RL822-221K-RC
330	—	—	2.3	0.90	0.33	M9969-ND	1.18	.94	.71	.59	.47	RL822-331K-RC
470	—	—	1.9	1.37	0.25	M9970-ND	1.18	.94	.71	.59	.47	RL822-471K-RC
560	—	—	1.8	1.53	0.23	M9971-ND	1.18	.94	.71	.59	.47	RL822-561K-RC
680	—	—	1.6	2.00	0.21	M9972-ND	1.18	.94	.71	.59	.47	RL822-681K-RC
820	—	—	1.5	2.70	0.18	M9973-ND	1.18	.94	.71	.59	.47	RL822-821K-RC
1000	—	—	1.3	2.96	0.16	M9974-ND	1.18	.94	.71	.59	.47	RL822-102K-RC
RL187 Series												
100	80	796	5.3	2.0	200	M10038-ND	1.18	.94	.71	.59	.47	RL187-101J-RC
150	80	796	3.8	2.0	200	M10039-ND	1.18	.94	.71	.59	.47	RL187-151J-RC
220	80	796	2.9	3.0	200	M10040-ND	1.18	.94	.71	.59	.47	RL187-221J-RC
330	80	796	2.3	4.0	200	M10041-ND	1.18	.94	.71	.59	.47	RL187-331J-RC
390	80	796	2.1	4.0	200	M10042-ND	1.18	.94	.71	.59	.47	RL187-391J-RC
470	80	796	1.9	4.0	200	M10043-ND	1.18	.94	.71	.59	.47	RL187-471J-RC
560	80	796	1.7	4.0	200	M10044-ND	1.18	.94	.71	.59	.47	RL187-561J-RC
680	80	796	1.6	4.0	200	M10045-ND	1.18	.94	.71	.59	.47	RL187-681J-RC
820	80	796	1.4	6.0	200	M10046-ND	1.18	.94	.71	.59	.47	RL187-821J-RC
1000	90	252	1.3	6.0	150	M10047-ND	1.18	.94	.71	.59	.47	RL187-102J-RC
1200	90	252	1.2	9.0	150	M10048-ND	1.18	.94	.71	.59	.47	RL187-122J-RC
1500	90	252	1.1	9.0	150	M10049-ND	1.18	.94	.71	.59	.47	RL187-152J-RC
2200	90	252	0.9	13	100	M10050-ND	1.18	.94	.71	.59	.47	RL187-222J-RC
2700	90	252	0.8	13	100	M10051-ND	1.18	.94	.71	.59	.47	RL187-272J-RC
3300	90	252	0.7	13	100	M10052-ND	1.18	.94	.71	.59	.47	RL187-332J-RC
3900	90	252	0.6	13	50	M10053-ND	1.18	.94	.71	.59	.47	RL187-392J-RC
4700	90	252	0.6	18	50	M10054-ND	1.18	.94	.71	.59	.47	RL187-472J-RC
5600	90	252	0.5	18	50	M10055-ND	1.18	.94	.71	.59	.47	RL187-562J-RC
6800	90	252	0.5	26	50	M10056-ND	1.18	.94	.71	.59	.47	RL187-682J-RC
8200	90	252	0.4	26	50	M10057-ND	1.18	.94	.71	.59	.47	RL187-822J-RC
10000	100	79.6	0.4	40	40	M10058-ND	1.18	.94	.71	.59	.47	RL187-103J-RC
15000	100	79.6	0.4	60	40	M10059-ND	1.18	.94	.71	.59	.47	RL187-153J-RC
18000	100	79.6	0.3	60	30	M10060-ND	1.18	.94	.71	.59	.47	RL187-183J-RC
22000	100	79.6	0.3	80	30	M10061-ND	1.18	.94	.71	.59	.47	RL187-223J-RC
27000	100	79.6	0.3	80	30	M10062-ND	1.18	.94	.71	.59	.47	RL187-273J-RC
33000	100	79.6	0.3	80	30	M10063-ND	1.18	.94	.71	.59	.47	RL187-333J-RC
RL622 Series												
1.0	20	7.96	150	0.013	10	M9975-ND	1.13	.90	.68	.57	.45	RL622-1R0K-RC
1.5	20	7.96	130	0.016	8.5	M9976-ND	1.13	.90	.68	.57	.45	RL622-1R5K-RC
2.2	20	7.96	100	0.021	6.5	M9977-ND	1.13	.90	.68	.57	.45	RL622-2R2K-RC
3.3	20	7.96	79	0.025	5.5	M9978-ND	1.13	.90	.68	.57	.45	RL622-3R3K-RC
4.7	20	7.96	51	0.030	4.3	M9979-ND	1.13	.90	.68	.57	.45	RL622-4R7K-RC
6.8	20	7.96	29	0.035	3.7	M9980-ND	1.13	.90	.68	.57	.45	RL622-6R8K-RC
10	50	2.52	14	0.045	3.0	M9981-ND	1.13	.90	.68	.57	.45	RL622-100K-RC
12	50	2.52	13	0.050	2.7	M9982-ND	1.13	.90	.68	.57	.45	RL622-120K-RC
15	40	2.52	12	0.056	2.3	M9983-ND	1.13	.90	.68	.57	.45	RL622-150K-RC
18	40	2.52	11	0.061	2.2	M9984-ND	1.13	.90	.68	.57	.45	RL622-180K-RC
22	40	2.52	9.2	0.070	2.0	M9985-ND	1.13	.90	.68	.57	.45	RL622-220K-RC
27	30	2.52	8.5	0.080	1.7	M9986-ND	1.13	.90	.68	.57	.45	RL622-270K-RC
33	30	2.52	7.8	0.090	1.6	M9987-ND	1.13	.90	.68	.57	.45	RL622-330K-RC
39	30	2.52	6.9	0.10	1.5	M9988-ND	1.13	.90	.68	.57	.45	RL622-390K-RC
47	30	2.52	6.5	0.16	1.4	M9989-ND	1.13	.90	.68	.57	.45	RL622-470K-RC
56	30	2.52	5.4	0.18	1.3	M9990-ND	1.13	.90	.68	.57	.45	RL622-560K-RC
68	30	2.52	4.9	0.21	1.2	M9991-ND	1.13	.90	.68	.57	.45	RL622-680K-RC
82	30	2.52	4.1	0.23	1.1	M9992-ND	1.13	.90	.68	.57	.45	RL622-820K-RC
100	20	0.796	3.7	0.28	0.91	M9993-ND	1.13	.90	.68	.57	.45	RL622-101K-RC
120	20	0.796	3.4	0.32	0.84	M9994-ND	1.13	.90	.68	.57	.45	RL622-121K-RC
150	20	0.796	3.2	0.37	0.75	M9995-ND	1.13	.90	.68	.57	.45	RL622-151K-RC
180	20	0.796	2.8	0.58	0.69	M9996-ND	1.13	.90	.68	.57	.45	RL622-181K-RC
220	20	0.796	2.7	0.65	0.64	M9997-ND	1.13	.90	.68	.57	.45	RL622-221K-RC
270	20	0.796	2.4	0.75	0.57	M9998-ND	1.13	.90	.68	.57	.45	RL622-271K-RC
330	20	0.796	2.3	0.85	0.54	M9999-ND	1.13	.90	.68	.57	.45	RL622-331K-RC
390	20	0.796	2.1	1.0	0.48	M10000-ND	1.13	.90	.68	.57	.45	RL622-391K-RC
470	20	0.796	1.9	1.1	0.46	M10001-ND	1.13	.90	.68	.57	.45	RL622-471K-RC
560	20	0.796	1.8	1.4	0.41	M10002-ND	1.13	.90	.68	.57	.45	RL622-561K-RC
680	20	0.796	1.6	1.6	0.38	M10003-ND	1.13	.90	.68	.57	.45	RL622-681K-RC
820	20	0.796	1.5	1.8	0.35	M10004-ND	1.13	.90	.68	.57	.45	RL622-821K-RC
1000	50	0.252	1.3	2.9	0.29	M10005-ND	1.13	.90	.68	.57	.45	RL622-102K-RC
1200	50	0.252	1.1	4.0	0.13	M10006-ND	1.13	.90	.68	.57	.45	RL622-122K-RC
1500	20	0.252	1.0	6.1	0.08	M10007-ND	1.13	.90	.68	.57	.45	RL622-152K-RC
1800	20	0.252	1.0	6.4	0.08	M10008-ND	1.13	.90	.68	.57	.45	RL622-182K-RC
2200	20	0.252	0.9	6.8	0.08	M10009-ND	1.13	.90	.68	.57	.45	RL622-222K-RC
2700	20	0.252	0.9	7.7	0.08	M10010-ND	1.13	.90	.68	.57	.45	RL622-272K-RC
3300	20	0.252	0.7	9.0	0.08	M10011-ND	1.13	.90	.68	.57	.45	RL622-332K-RC
3900	20	0.252	0.6	14.0	0.08	M10012-ND	1.13	.90	.68	.57	.45	RL622-392K-RC
4700	20	0.252	0.5	16.0	0.05	M10013-ND	1.13	.90	.68	.57	.45	RL622-472K-RC
5600	20	0.252	0.4	18.0	0.05	M10014-ND	1.13	.90	.68	.57	.45	RL622-562K-RC
6800	20	0.252	0.4	19.0	0.05	M10015-ND	1.13	.90	.68	.57	.45	RL622-682K-RC
8200	20	0.252	0.3	21.0	0.05	M10016-ND	1.13	.90	.68	.57	.45	RL622-822K-RC
10000	40	0.079	0.3	25.0	0.05	M10017-ND	1.13	.90	.68	.57	.45	RL622-103K-RC
12000	40	0.079	0.3	33.0	0.04	M10018-ND	1.13	.90	.68	.57	.45	RL622-123K-RC
15000	40	0.079	0.2	37.0	0.04	M10019-ND	1.13	.90	.68	.57	.45	RL622-153K-RC
18000	30	0.079	0.2	40.0	0.04	M10020-ND	1.13	.90	.68	.57	.45	RL622-183K-RC
22000	30	0.079	0.1	56.0	0.03	M10021-ND	1.13	.90	.68	.57	.45	RL622-223K-RC
27000	30	0.079	0.1	62.0	0.03	M10022-ND	1.13	.90	.68	.57	.45	RL622-273K-RC
33000	30	0.079	0.1	70.0	0.03	M10023-ND	1.13	.90	.68	.57	.45	RL622-333K-RC
39000	30	0.079	0.1	80.0	0.03	M10024-ND	1.13	.90	.68	.57	.45	RL622-393K-RC
47000	20	0.079	0.1	99.0	0.03	M10025-ND	1.13	.90	.68	.57	.45	RL622-473K-RC
56000	20	0.079	01	135.0	0.02	M10026-ND	1.13	.90	.68	.57	.45	RL622-563K-RC
68000	20	0.079	0.1	150.0	0.02	M10027-ND	1.13	.90	.68	.57	.45	RL622-683K-RC
82000	20	0.079	0.1	212.0	0.02	M10028-ND	1.13	.90	.68	.57	.45	RL622-823K-RC
100000	20	0.025	0.1	235.0	0.02	M10029-ND	1.13	.90	.68	.57	.45	RL622-104K-RC
RL181S Series												
1000	70	—	0.77	3.4	90	M10064-ND	1.98	1.49	1.12	.99	.87	RL181S-102J-RC
1500	70	—	0.64	4.0	70	M10065-ND	1.98	1.49	1.12	.99	.87	RL181S-152J-RC
3300	100	—	0.44	6.1	50	M10066-ND	1.98	1.49	1.12	.99	.87	RL181S-332J-RC
4700	100	—	0.38	7.5	40	M10067-ND	1.98	1.49	1.12	.99	.87	RL181S-472J-RC
5600	100	—	0.35	8.4	40	M10068-ND	1.98	1.49	1.12	.99	.87	RL181S-562J-RC
8200	100	—	0.28	10.4	30	M10069-ND	1.98	1.49	1.12	.99	.87	RL181S-822J-RC
10000	100	—	0.25	12.1	25	M10070-ND	1.98	1.49	1.12	.99	.87	RL181S-103J-RC
15000	100	—	0.22	15.0	22	M10071-ND	1.98	1.49	1.12	.99	.87	RL181S-153J-RC
18000	100	—	0.19	17.0	21	M10072-ND	1.98	1.49	1.12	.99	.87	RL181S-183J-RC
22000	100	—	0.19	19.5	20	M10073-ND	1.98	1.49	1.12	.99	.87	RL181S-223J-RC
33000	100	—	0.16	26.0	17	M10074-ND	1.98	1.49	1.12	.99	.87	RL181S-333J-RC
39000	100	—	0.12	45.0	15	M10075-ND	1.98	1.49	1.12	.99	.87	RL181S-393J-RC
47000	100	—	0.12	52.0	13	M10076-ND	1.98	1.49	1.12	.99	.87	RL181S-473J-RC
100000	100	—	0.09	82.0	9	M10077-ND	1.98	1.49	1.12	.99	.87	RL181S-104J-RC
120000	100	—	0.09	97	8	M10078-ND	1.98	1.49	1.12	.99	.87	RL181S-124J-RC
RL262 Series												
100	60	796	6.1	2.0	200	M10030-ND	1.18	.94	.71	.59	.47	RL262-101J-RC
470	60	796	3.2	5.0	100	M10031-ND	1.18	.94	.71	.59	.47	RL262-471J-RC
1000	80	252	2.1	9.0	50	M10032-ND	1.18	.94	.71	.59	.47	RL262-102J-RC
1500	80	252	1.8	11.0	50	M10033-ND	1.18	.94	.71	.59	.47	RL262-152J-RC
2200	80	252	1.5	14.0	50	M10034-ND	1.18	.94	.71	.59	.47	RL262-222J-RC
8200	80	252	0.6	45.0	30	M10035-ND	1.18	.94	.71	.59	.47	RL262-822J-RC
10000	60	79.6	0.6	55.0	20	M10036-ND	1.18	.94	.71	.59	.47	RL262-103J-RC
15000	60	79.6	0.5	80.0	20	M10037-ND	1.18	.94	.71	.59	.47	RL262-153J-RC
RL824 Series												
10	—	—	44	0.52	2.2	M9943-ND	1.30	.98	.74	.65	.57	RL824-100K-RC
15	—	—	25	0.065	1.93	M9944-ND	1.42	1.07	.80	.71	.63	RL824-150K-RC
47	—	—	4.1	0.11	1.29	M9945-ND	1.30	.98	.74	.65	.57	RL824-470K-RC
100	—	—	2.8	0.18	1.02	M9946-ND	1.30	.98	.74	.65	.57	RL824-101K-RC
120	—	—	2.6	0.19	0.94	M9947-ND	1.30	.98	.74	.65	.57	RL824-121K-RC
150	—	—	2.2	0.22	0.92	M9948-ND	1.30	.98	.74	.65	.57	RL824-151K-RC
220	—	—	1.9	0.28	0.82	M9949-ND	1.30	.98	.74	.65	.57	RL824-221K-RC
330	—	—	1.5	0.50	0.56	M9950-ND	1.30	.98	.74	.65	.57	RL824-331K-RC
390	—	—	1.4	0.56	0.52	M9951-ND	1.30	.98	.74	.65	.57	RL824-391K-RC
470	—	—	1.3	0.62	0.48	M9952-ND	1.30	.98	.74	.65	.57	RL824-471K-RC
680	—	—	1.1	0.79	0.44	M9953-ND	1.30	.98	.74	.65	.57	RL824-681K-RC
820	—	—	1.0	0.86	0.40	M9954-ND	1.30	.98	.74	.65	.57	RL824-821K-RC
1000	—	—	0.87	1.60	0.31	M9955-ND	1.42	1.07	.80	.71	.63	RL824-102K-RC
2200	—	—	0.66	2.80	0.24	M9956-ND	1.30	.98	.74	.65	.57	RL824-222K-RC

J.W.Miller
M A G N E T I C S

Surface Mount Chip Inductors

PM1812 and PM1210 Series

Dim. in mm.

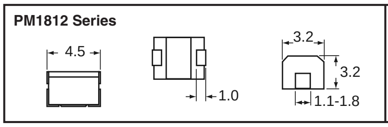

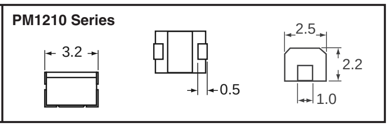

L (µH)	Q Min.	Test Frequency (MHz)	SRF (MHz) Max.	DCR (Ω) Max.	I,dc (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	J.W. Miller Part No.
PM1812 Series 10%													
0.10	28.00	25.20	300.00	0.18	800.00	M8526CT-ND◊	.45	.41	.34	M8526TR-ND◊	500	66.75	PM1812-R10K-RC
0.12	30.00	25.20	280.00	0.20	770.00	M6033CT-ND	.45	.41	.34	M6033TR-ND	500	66.75	PM1812-R12K
0.18	30.00	25.20	220.00	0.24	700.00	M6035CT-ND	.45	.41	.34	M6035TR-ND	500	66.75	PM1812-R18K
0.22	30.00	25.20	200.00	0.25	665.00	M6036CT-ND	.45	.41	.34	—	—	—	PM1812-R22K
0.27	30.00	25.20	180.00	0.26	635.00	M6037CT-ND	.45	.41	.34	M6037TR-ND	500	66.75	PM1812-R27K
0.33	30.00	25.20	165.00	0.28	605.00	M6038CT-ND	.45	.41	.34	—	—	—	PM1812-R33K
0.39	30.00	25.20	150.00	0.30	575.00	M6039CT-ND	.45	.41	.34	M6039TR-ND	500	66.75	PM1812-R39K
0.56	30.00	25.20	140.00	0.36	520.00	M6041CT-ND	.45	.41	.34	—	—	—	PM1812-R56K
0.68	30.00	25.20	135.00	0.40	500.00	M6042CT-ND	.45	.41	.34	M6042TR-ND	500	66.75	PM1812-R68K
0.82	30.00	25.20	130.00	0.45	475.00	M6043CT-ND	.45	.41	.34	—	—	—	PM1812-R82K
PM1812 Series 5%													
1.00	50.00	7.96	100.00	0.50	450.00	M8527CT-ND◊	.45	.41	.34	M8527TR-ND◊	500	66.75	PM1812-1R0J-RC
1.20	50.00	7.96	80.00	0.55	430.00	M8528CT-ND◊	.45	.41	.34	M8528TR-ND◊	500	66.75	PM1812-1R2J-RC
1.50	50.00	7.96	70.00	0.60	410.00	M6046CT-ND	.45	.41	.34	M6046TR-ND	500	66.75	PM1812-1R5J
2.20	50.00	7.96	55.00	0.70	380.00	M8529CT-ND◊	.45	.41	.34	M8529TR-ND◊	500	66.75	PM1812-2R2J-RC
3.30	50.00	7.96	45.00	0.80	355.00	M8530CT-ND◊	.45	.41	.34	M8530TR-ND◊	500	66.75	PM1812-3R3J-RC
3.90	50.00	7.96	40.00	0.90	330.00	M6051CT-ND	.45	.41	.34	M6051TR-ND	500	66.75	PM1812-3R9J
4.70	50.00	7.96	35.00	1.00	315.00	M6052CT-ND	.45	.41	.34	M6052TR-ND	500	66.75	PM1812-4R7J
5.60	50.00	7.96	33.00	1.10	300.00	M6053CT-ND	.45	.41	.34	M6053TR-ND	500	66.75	PM1812-5R6J
6.80	50.00	7.96	27.00	1.20	285.00	M6054CT-ND	.45	.41	.34	M6054TR-ND	500	66.75	PM1812-6R8J
8.20	50.00	7.96	25.00	1.40	270.00	M6055CT-ND	.45	.41	.34	—	—	—	PM1812-8R2J
10.00	50.00	2.52	20.00	1.60	250.00	M8531CT-ND◊	.45	.41	.34	M8531TR-ND◊	500	66.75	PM1812-100J-RC
12.00	50.00	2.52	18.00	2.00	225.00	M8532CT-ND◊	.45	.41	.34	M8532TR-ND◊	500	66.75	PM1812-120J-RC
15.00	50.00	2.52	17.00	2.50	200.00	M6058CT-ND	.45	.41	.34	M6058TR-ND	500	66.75	PM1812-150J
33.00	50.00	2.52	11.00	4.00	160.00	M6062CT-ND	.45	.41	.34	—	—	—	PM1812-330J
33.00	50.00	2.52	11.00	4.00	160.00	M8533CT-ND◊	.45	.41	.34	M8533TR-ND◊	500	66.75	PM1812-330J-RC
47.00	50.00	2.52	10.00	5.00	140.00	M8534CT-ND◊	.45	.41	.34	M8534TR-ND◊	500	66.75	PM1812-470J-RC
56.00	50.00	2.52	9.00	5.50	135.00	M6065CT-ND	.45	.41	.34	—	—	—	PM1812-560J
68.00	50.00	2.52	9.00	6.00	130.00	M6066CT-ND	.45	.41	.34	M6066TR-ND	500	66.75	PM1812-680J
100.00	40.00	0.796	7.00	8.00	110.00	M8535CT-ND◊	.45	.41	.34	M8535TR-ND◊	500	66.75	PM1812-101J-RC
150.00	40.00	0.796	5.00	9.00	105.00	M6070CT-ND	.45	.41	.34	M6070TR-ND	500	89.00	PM1812-151J
180.00	40.00	0.796	5.00	9.50	102.00	M6071CT-ND	.45	.41	.34	—	—	—	PM1812-181J
220.00	40.00	0.796	4.00	10.00	100.00	M8536CT-ND◊	.45	.41	.34	M8536TR-ND◊	500	66.75	PM1812-221J-RC
270.00	30.00	0.796	3.00	12.00	92.00	M6073CT-ND	.45	.41	.34	—	—	—	PM1812-271J
330.00	30.00	0.796	3.00	14.00	85.00	M6074CT-ND	.45	.41	.34	—	—	—	PM1812-331J
330.00	30.00	0.796	3.00	14.00	85.00	M8537CT-ND◊	.45	.41	.34	M8537TR-ND◊	500	66.75	PM1812-331J-RC
390.00	30.00	0.796	3.00	18.00	80.00	M6075CT-ND	.45	.41	.34	M6075TR-ND	500	66.75	PM1812-391J
470.00	30.00	0.796	3.00	26.00	62.00	M6076CT-ND	.45	.41	.34	—	—	—	PM1812-471J
560.00	30.00	0.796	2.00	30.00	50.00	M8538CT-ND◊	.45	.41	.34	M8538TR-ND◊	500	66.75	PM1812-561J-RC
820.00	30.00	0.796	2.00	35.00	30.00	M6079CT-ND	.45	.41	.34	M6079TR-ND	500	66.75	PM1812-821J
1000.00	30.00	0.796	2.00	40.00	30.00	M8539CT-ND◊	.45	.41	.34	M8539TR-ND◊	500	66.75	PM1812-102J-RC
PM1210 Series 10%													
0.01	17.00	100.00	2300.00	0.14	450.00	M6082CT-ND	.45	.41	.34	—	—	—	PM1210-R012K
0.02	19.00	100.00	2100.00	0.16	450.00	M6083CT-ND	.45	.41	.34	—	—	—	PM1210-R015K
0.02	21.00	100.00	1900.00	0.18	450.00	M6084CT-ND	.45	.41	.34	—	—	—	PM1210-R018K
0.02	23.00	100.00	1700.00	0.20	450.00	M6085CT-ND	.45	.41	.34	—	—	—	PM1210-R022K
0.03	23.00	100.00	1500.00	0.22	450.00	M6086CT-ND	.45	.41	.34	—	—	—	PM1210-R027K
PM1210 Series 5%													
0.03	25.00	100.00	1400.00	0.24	450.00	M6087CT-ND	.45	.41	.34	—	—	—	PM1210-R033J
0.04	25.00	100.00	1300.00	0.27	450.00	M6088CT-ND	.45	.41	.34	—	—	—	PM1210-R039J
0.05	26.00	100.00	1200.00	0.30	450.00	M6089CT-ND	.45	.41	.34	—	—	—	PM1210-R047J
0.06	26.00	100.00	1100.00	0.33	450.00	M6090CT-ND	.45	.41	.34	—	—	—	PM1210-R056J
0.07	27.00	100.00	1000.00	0.36	450.00	M6091CT-ND	.45	.41	.34	—	—	—	PM1210-R068J
0.08	27.00	100.00	900.00	0.40	450.00	M6092CT-ND	.45	.41	.34	—	—	—	PM1210-R082J
0.10	28.00	100.00	700.00	0.44	450.00	M6093CT-ND	.45	.41	.34	—	—	—	PM1210-R10J
0.12	28.00	25.20	500.00	0.22	450.00	M6094CT-ND	.45	.41	.34	—	—	—	PM1210-R12J
0.15	28.00	25.20	450.00	0.25	450.00	M6095CT-ND	.45	.41	.34	—	—	—	PM1210-R15J
0.18	28.00	25.20	400.00	0.28	450.00	M6096CT-ND	.45	.41	.34	—	—	—	PM1210-R18J
0.22	28.00	25.20	350.00	0.32	450.00	M6097CT-ND	.45	.41	.34	—	—	—	PM1210-R22J
0.33	28.00	25.20	300.00	0.40	450.00	M6099CT-ND	.45	.41	.34	—	—	—	PM1210-R33J
0.39	28.00	25.20	250.00	0.45	450.00	M6100CT-ND	.45	.41	.34	—	—	—	PM1210-R39J
0.47	28.00	25.20	220.00	0.50	450.00	M6101CT-ND	.45	.41	.34	—	—	—	PM1210-R47J
0.68	28.00	25.20	160.00	0.60	450.00	M6103CT-ND	.45	.41	.34	—	—	—	PM1210-R68J
0.82	28.00	25.20	140.00	0.65	450.00	M6104CT-ND	.45	.41	.34	—	—	—	PM1210-R82J
1.00	28.00	7.96	120.00	0.70	400.00	M6105CT-ND	.45	.41	.34	M6105TR-ND	2,000	178.00/M	PM1210-1R0J
1.00	28.00	7.96	120.00	0.70	400.00	M8540CT-ND◊	.45	.41	.34	M8540TR-ND◊	2,000	133.50/M	PM1210-1R0J-RC
1.20	28.00	7.96	100.00	0.75	390.00	M6106CT-ND	.45	.41	.34	M6106TR-ND	2,000	178.00/M	PM1210-1R2J
1.50	28.00	7.96	85.00	0.85	370.00	M6107CT-ND	.45	.41	.34	—	—	—	PM1210-1R5J
1.50	28.00	7.96	85.00	0.85	370.00	M8541CT-ND◊	.45	.41	.34	M8541TR-ND◊	2,000	133.50/M	PM1210-1R5J-RC
1.80	28.00	7.96	80.00	0.90	350.00	M6108CT-ND	.45	.41	.34	—	—	—	PM1210-1R8J
2.20	30.00	7.96	75.00	1.00	320.00	M8542CT-ND◊	.45	.41	.34	M8542TR-ND◊	2,000	133.50/M	PM1210-2R2J-RC
2.70	30.00	7.96	70.00	1.10	290.00	M6110CT-ND	.45	.41	.34	M6110TR-ND	2,000	178.00/M	PM1210-2R7J
3.30	30.00	7.96	60.00	1.20	260.00	M6111CT-ND	.45	.41	.34	—	—	—	PM1210-3R3J
3.90	30.00	7.96	55.00	1.30	250.00	M6112CT-ND	.45	.41	.34	—	—	—	PM1210-3R9J

◊ ***RoHS Compliant***

(Continued)

J.W. Miller MAGNETICS Surface Mount Chip Inductors *(Cont.)*

L (µH)	Q Min.	Test Frequency (MHz)	SRF (MHz) Max.	DCR (Ω) Max.	I,dc (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	J.W. Miller Part No.
4.70	30.00	7.96	50.00	1.70	220.00	M6113CT-ND	.45	.41	.34	—	—	—	PM1210-4R7J
4.70	30.00	7.96	50.00	1.70	220.00	M8543CT-ND◊	.45	.41	.34	M8543TR-ND◊	2,000	133.50/M	PM1210-4R7J-RC
5.60	30.00	7.96	47.00	1.80	200.00	M6114CT-ND	.45	.41	.34	—	—	—	PM1210-5R6J
5.60	30.00	7.96	47.00	1.80	200.00	M8544CT-ND◊	.45	.41	.34	M8544TR-ND◊	2,000	133.50/M	PM1210-5R6J-RC
6.80	30.00	7.96	43.00	2.00	180.00	M6115CT-ND	.45	.41	.34	—	—	—	PM1210-6R8J
8.20	30.00	7.96	40.00	2.30	170.00	M6116CT-ND	.45	.41	.34	—	—	—	PM1210-8R2J
10.00	30.00	2.52	36.00	2.50	150.00	M8545CT-ND◊	.45	.41	.34	M8545TR-ND◊	2,000	133.50/M	PM1210-100J-RC
12.00	30.00	2.52	33.00	2.80	140.00	M6118CT-ND	.45	.41	.34	M6118TR-ND	2,000	178.00/M	PM1210-120J
12.00	30.00	2.52	33.00	2.80	140.00	M8546CT-ND◊	.45	.41	.34	M8546TR-ND◊	2,000	133.50/M	PM1210-120J-RC
15.00	30.00	2.52	30.00	3.20	130.00	M6119CT-ND	.45	.41	.34	—	—	—	PM1210-150J
15.00	30.00	2.52	30.00	3.20	130.00	M8547CT-ND◊	.45	.41	.34	M8547TR-ND◊	2,000	133.50/M	PM1210-150J-RC
18.00	30.00	2.52	27.00	3.60	120.00	M6120CT-ND	.45	.41	.34	—	—	—	PM1210-180J
22.00	30.00	2.52	25.00	4.00	110.00	M6121CT-ND	.45	.41	.34	—	—	—	PM1210-220J
27.00	30.00	2.52	20.00	5.00	80.00	M6122CT-ND	.45	.41	.34	—	—	—	PM1210-270J
33.00	30.00	2.52	17.00	5.60	70.00	M6123CT-ND	.45	.41	.34	—	—	—	PM1210-330J
33.00	30.00	2.52	17.00	5.60	70.00	M8548CT-ND◊	.45	.41	.34	M8548TR-ND◊	2,000	133.50/M	PM1210-330J-RC
47.00	30.00	2.52	15.00	7.00	60.00	M6125CT-ND	.45	.41	.34	—	—	—	PM1210-470J
47.00	30.00	2.52	15.00	7.00	60.00	M8549CT-ND◊	.45	.41	.34	M8549TR-ND◊	2,000	133.50/M	PM1210-470J-RC
56.00	30.00	2.52	13.00	8.00	55.00	M6126CT-ND	.45	.41	.34	—	—	—	PM1210-560J
68.00	30.00	2.52	12.00	9.00	50.00	M8550CT-ND◊	.45	.41	.34	M8550TR-ND◊	2,000	133.50/M	PM1210-680J-RC
82.00	30.00	2.52	11.00	10.00	45.00	M8551CT-ND◊	.45	.41	.34	M8551TR-ND◊	2,000	133.50/M	PM1210-820J-RC
100.00	20.00	0.796	10.00	10.00	40.00	M6129CT-ND	.45	.41	.34	—	—	—	PM1210-101J
100.00	20.00	0.796	10.00	10.00	40.00	M8552CT-ND◊	.45	.41	.34	M8552TR-ND◊	2,000	133.50/M	PM1210-101J-RC
120.00	20.00	0.796	10.00	11.00	70.00	M6130CT-ND	.45	.41	.34	—	—	—	PM1210-121J
120.00	20.00	0.796	10.00	11.00	70.00	M8553CT-ND◊	.45	.41	.34	M8553TR-ND◊	2,000	133.50/M	PM1210-121J-RC
150.00	20.00	0.796	8.00	15.00	65.00	M6131CT-ND	.45	.41	.34	M6131TR-ND	2,000	178.00/M	PM1210-151J
150.00	20.00	0.796	8.00	15.00	65.00	M8554CT-ND◊	.45	.41	.34	M8554TR-ND◊	2,000	133.50/M	PM1210-151J-RC
180.00	20.00	0.796	7.00	17.00	60.00	M6132CT-ND	.45	.41	.34	—	—	—	PM1210-181J
180.00	20.00	0.796	7.00	17.00	60.00	M8555CT-ND◊	.45	.41	.34	M8555TR-ND◊	2,000	133.50/M	PM1210-181J-RC
220.00	20.00	0.796	7.00	21.00	50.00	M8556CT-ND◊	.45	.41	.34	M8556TR-ND◊	2,000	133.50/M	PM1210-221J-RC

◊ ***RoHS Compliant***

J.W. Miller MAGNETICS Multi-6 Pack, Inductors and Transformers

PM620 Series

Features: • Six windings offer many inductor or transformer configuration • High magnetic coupling • Non-gapped and gapped core construction • Low core loss at high frequency applications • Low noise radiation • Compact size and low profile • Dielectric Strength: 500 Vrms between windings • Operating Temperature: -40°C ~ 105°C

Applications: • ***Transformers:*** flyback, forward, push-pull, bridge, multiple outputs, inverter, step-up, step-down, gate drive, base drive, signal, wide band, pulse, impedance, isolation, converter • ***Inductors:*** buck, boost, buck-boost, coupled, input, output, choke, filter, resonant, high-Q, EMI/RFI filtering, differential, forward, common mode

TYPICAL CONFIGURATIONS FOR TRANSFORMERS:

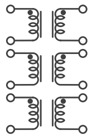
Basic Diagram
Turns Ratio:
1:1:1:1:1:1

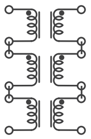
Turns Ratio:
1:1

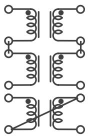
Turns Ratio:
1:1:1

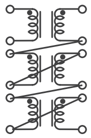
Turns Ratio:
1:5 or 5:1

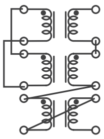
Turns Ratio:
1:4 or 4:1

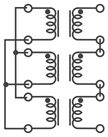
Turns Ratio:
1:3 or 3:1

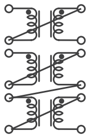
Turns Ratio:
1:2 or 2:1

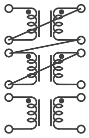
Turns Ratio:
4:1:1

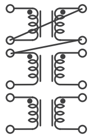
Turns Ratio:
3:1:1:1

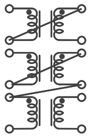
Turns Ratio:
2:3 or 3:2

TYPICAL CONFIGURATIONS FOR INDUCTORS:

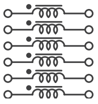
Basic Diagram
Inductance: L
Current: I

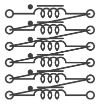
Inductance: 36 x L
Current: I

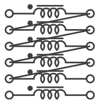
Inductance: 25 x L
Current: I

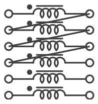
Inductance: 16 x L
Current: I

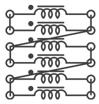
Inductance: 9 x L
Current: 2 x I

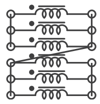
Inductance: 4 x L
Current: 3 x I

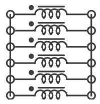
Inductance: L
Current: 6 x I

PM620 Series

Dim. in mm

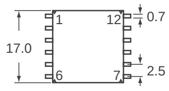

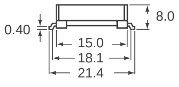

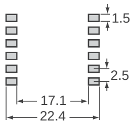

Pad Layout

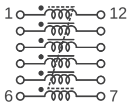

L (µH) @ 100KHz	DCR (Ω) Max.	Isat (A)	Digi-Key Part No.	Price Each 1	10	25	J.W. Miller Part No.
PM620 Series							
160.6 ±30%	0.094	0.03	M1342-ND	2.85	2.14	1.90	PM620-01-B
77.0 ±30%	0.065	0.04	M1343-ND	2.85	2.14	1.90	PM620-02-B
131.8 ±20%	0.094	0.08	M1344-ND	2.85	2.14	1.90	PM620-03-B

J.W.Miller
MAGNETICS

Surface Mount High Power Inductors — PM7232S, PM1038S, PM12639S, PM12645S, PM12651S, PM13560S, PM13656S and PM13666 Series

Dim. in mm

Features:

- Ideal for very high current DC/DC converter output inductors
- Magnetically shielded for low radiation
- High saturation current
- Low DC resistance
- Low Profile
- Test Frequency: 100KHz
- Operating Temperature: -40°C ~150°C

Fig. 1

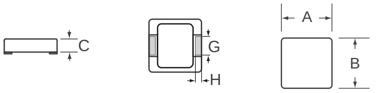

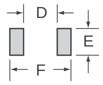

Pad Layout for both.

Fig. 2

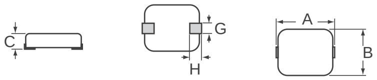

L(µH) ±20%	DCR Ω Max.	Irated (A)	Dimensions (mm) A	B	C	D	E	F	G	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	JW Miller Part No.
Fig. 1 — PM7232S Series																		
0.10	0.0011	22	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M1266CT-ND	3.16	2.87	2.14	M1266TR-ND	1,500	1360.00/M	PM7232S-R10M
0.10	0.0011	22	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8494CT-ND◊	2.41	2.20	1.64	M8494TR-ND◊	1,500	1020.00/M	PM7232S-R10M-RC
0.22	0.0017	17	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M1267CT-ND	3.16	2.87	2.14	—	—	—	PM7232S-R22M
0.22	0.0017	17	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8495CT-ND◊	2.41	2.20	1.64	M8495TR-ND◊	1,500	1020.00/M	PM7232S-R22M-RC
0.47	0.0030	15	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8496CT-ND◊	2.41	2.20	1.64	M8496TR-ND◊	1,500	1020.00/M	PM7232S-R47M-RC
0.72	0.0080	12.5	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M1269CT-ND	3.16	2.87	2.14	M1269TR-ND	1,500	1360.00/M	PM7232S-R72M
0.72	0.0080	12.5	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8497CT-ND◊	2.41	2.20	1.64	M8497TR-ND◊	1,500	1020.00/M	PM7232S-R72M-RC
1.0	0.0084	10	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M1270CT-ND	3.16	2.87	2.14	M1270TR-ND	1,500	1335.00/M	PM7232S-1R0M
1.5	0.0095	9	7.2	6.6	3.2	3.5	1.3	3.0	4.0	7.5	M8498CT-ND◊	2.41	2.20	1.64	M8498TR-ND◊	1,500	1020.00/M	PM7232S-1R5M-RC
Fig. 2 — PM1038S Series																		
0.75	0.0035	20	10.5	10.0	3.8	4.5	5.0	11.5	2.0	2.4	M1277CT-ND	2.66	2.42	1.80	—	—	—	PM1038S-R75M
1.2	0.0047	17	10.5	10.0	3.8	4.5	5.0	11.5	2.0	2.4	M1278CT-ND	2.66	2.42	1.80	M1278TR-ND	800	900.00	PM1038S-1R2M
2.5	0.011	11.5	10.5	10.0	3.8	4.5	5.0	11.5	2.0	2.4	M1279CT-ND	2.66	2.42	1.80	—	—	—	PM1038S-2R5M
Fig. 1 — PM12639S Series																		
0.67	0.0014	23	12.6	12.6	3.9	5.8	2.4	6.0	6.5	13.0	M1261CT-ND	3.48	3.17	2.36	M1261TR-ND	800	1408.00	PM12639S-R67M
0.67	0.0014	23	12.6	12.6	3.9	5.8	2.4	6.0	6.5	13.0	M8105CT-ND◊	3.12	2.84	2.12	M8105TR-ND◊	800	1056.00	PM12639S-R67M-RC
1.2	0.0028	18.5	12.6	12.6	3.9	5.8	2.4	6.0	6.5	13.0	M1262CT-ND	3.48	3.17	2.36	M1262TR-ND	800	1408.00	PM12639S-1R2M
1.2	0.0028	18.5	12.6	12.6	3.9	5.8	2.4	6.0	6.5	13.0	M8106CT-ND◊	3.12	2.84	2.12	M8106TR-ND◊	800	1056.00	PM12639S-1R2M-RC
Fig. 1 — PM12645S Series																		
1.2	0.0018	21	12.6	12.6	4.5	5.8	2.4	6.0	6.5	13.0	M8107CT-ND◊	2.54	2.31	1.72	M8107TR-ND◊	800	858.00	PM12645S-1R2M-RC
1.8	0.0035	16	12.6	12.6	4.5	5.8	2.4	6.0	6.5	13.0	M1264CT-ND	3.55	3.23	2.40	M1264TR-ND	800	1144.00	PM12645S-1R8M
1.8	0.0035	16	12.6	12.6	4.5	5.8	2.4	6.0	6.5	13.0	M8108CT-ND◊	2.54	2.31	1.72	M8108TR-ND◊	800	858.00	PM12645S-1R8M-RC
2.7	0.0044	15	12.6	12.6	4.5	5.8	2.4	6.0	6.5	13.0	M1265CT-ND	3.55	3.23	2.40	M1265TR-ND	800	1144.00	PM12645S-2R7M
2.7	0.0044	15	12.6	12.6	4.5	5.8	2.4	6.0	6.5	13.0	M8109CT-ND◊	2.54	2.31	1.72	M8109TR-ND◊	800	858.00	PM12645S-2R7M-RC
Fig. 1 — PM12651S Series																		
4.7	0.0072	12	12.6	12.6	5.1	5.8	2.4	6.0	6.5	13.0	M8500CT-ND◊	2.54	2.31	1.72	M8500TR-ND◊	800	858.00	PM12651S-4R7M-RC
Fig. 1 — PM13560S Series																		
6.0	0.0107	9.5	13.0	12.6	5.6	5.8	2.4	6.4	6.5	13.4	M1283CT-ND	2.96	2.70	2.01	M1283TR-ND	500	730.00	PM13560S-6R0M
6.0	0.0107	9.5	13.0	12.6	5.6	5.8	2.4	6.4	6.5	13.4	M8501CT-ND◊	2.59	2.36	1.76	M8501TR-ND◊	500	547.50	PM13560S-6R0M-RC
10	0.0149	7.5	13.0	12.6	5.6	5.8	2.4	6.4	6.5	13.4	M8502CT-ND◊	2.59	2.36	1.76	M8502TR-ND◊	500	547.50	PM13560S-100M-RC
Fig. 2 — PM13656S Series																		
0.5	0.00088	40	13.6	12.6	5.6	5.3	5.0	14.7	2.4	3.5	M1280CT-ND	3.02	2.75	2.04	—	—	—	PM13656S-R50M
Fig. 2 — PM13666S Series																		
1.0	0.0012	25	13.6	12.6	6.6	2.4	3.5	5.3	5.0	14.7	M1281CT-ND	2.96	2.70	2.01	M1281TR-ND	500	730.00	PM13666S-1R0M
1.0	0.0012	25	13.6	12.6	6.6	2.4	3.5	5.3	5.0	14.7	M8499CT-ND◊	2.59	2.36	1.76	M8499TR-ND◊	500	547.50	PM13666S-1R0M-RC

◊ ***RoHS Compliant***

Surface Mount High Current Toroid Inductors — PM2110 Series

Dim. in mm

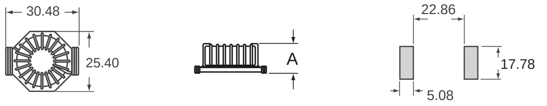

L (µH) @ 1KHz	I,dc (A)	L (µH) ±20% @ Rated I	DCR (Ω) Max.	Dim. A (mm) Max.	Digi-Key Part No.	Price Each 1	10	25	J.W. Miller Part No.
PM2110 Series 20%									
1.00	22.70	0.80	0.00	14.48	M6134-ND	3.69	2.77	2.46	PM2110-1R0M
1.00	22.70	0.80	0.00	14.48	M8754-ND◊	2.74	2.06	1.83	PM2110-1R0M-RC
1.20	20.30	1.00	0.00	14.48	M6135-ND	2.85	2.14	1.91	PM2110-1R2M
1.50	20.30	1.20	0.00	14.48	M6136-ND	2.85	2.14	1.91	PM2110-1R5M
1.80	18.50	1.40	0.00	14.48	M6137-ND	2.85	2.14	1.91	PM2110-1R8M
2.20	17.20	1.70	0.00	14.48	M6138-ND	2.85	2.14	1.91	PM2110-2R2M
2.70	16.00	2.00	0.00	14.48	M6139-ND	2.85	2.14	1.91	PM2110-2R7M
3.30	16.00	2.50	0.00	14.48	M6140-ND	2.85	2.14	1.91	PM2110-3R3M
3.90	15.10	2.80	0.00	14.48	M6141-ND	2.85	2.14	1.91	PM2110-3R9M
4.70	14.40	3.40	0.00	14.48	M6142-ND	3.69	2.77	2.46	PM2110-4R7M
5.60	13.70	3.90	0.01	14.48	M8755-ND◊	2.74	2.06	1.83	PM2110-5R6M-RC
6.80	13.10	4.60	0.01	14.48	M6144-ND	3.69	2.77	2.46	PM2110-6R8M
8.20	12.60	5.50	0.01	14.48	M6145-ND	2.85	2.14	1.91	PM2110-8R2M
PM2110 Series 10%									
10.00	11.70	6.50	0.01	14.48	M6146-ND	3.69	2.77	2.46	PM2110-100K
10.00	11.70	6.50	0.01	14.48	M8756-ND◊	3.69	2.77	2.46	PM2110-100K-RC
12.00	11.30	7.60	0.01	14.48	M6147-ND	3.69	2.77	2.46	PM2110-120K

L (µH) @ 1KHz	I,dc (A)	L (µH) ±20% @ Rated I	DCR (Ω) Max.	Dim. A (mm) Max.	Digi-Key Part No.	Price Each 1	10	25	J.W. Miller Part No.
12.00	11.30	7.60	0.01	14.48	M8757-ND◊	2.87	2.16	1.92	PM2110-120K-RC
15.00	10.70	9.20	0.01	14.48	M6148-ND	3.69	2.77	2.46	PM2110-150K
15.00	10.70	9.20	0.01	14.48	M8758-ND◊	2.87	2.16	1.92	PM2110-150K-RC
18.00	10.20	10.70	0.01	14.48	M8759-ND◊	2.87	2.16	1.92	PM2110-180K-RC
22.00	9.70	12.70	0.01	14.48	M8760-ND◊	2.87	2.16	1.92	PM2110-220K-RC
27.00	8.20	16.00	0.01	13.72	M6151-ND	3.69	2.77	2.46	PM2110-270K
27.00	8.20	16.00	0.01	13.72	M8761-ND◊	2.87	2.16	1.92	PM2110-270K-RC
33.00	7.00	20.10	0.02	13.21	M8762-ND◊	2.87	2.16	1.92	PM2110-330K-RC
39.00	6.80	23.20	0.02	15.75	M8763-ND◊	2.87	2.16	1.92	PM2110-390K-RC
47.00	6.50	27.20	0.02	15.75	M8764-ND◊	3.69	2.77	2.46	PM2110-470K-RC
56.00	6.20	31.60	0.02	15.75	M6155-ND	3.69	2.77	2.46	PM2110-560K
56.00	6.20	31.60	0.02	15.75	M8765-ND◊	2.87	2.16	1.92	PM2110-560K-RC
68.00	5.90	37.10	0.03	15.75	M8766-ND◊	3.69	2.77	2.46	PM2110-680K-RC
82.00	5.60	43.40	0.03	15.75	M6157-ND	3.69	2.77	2.46	PM2110-820K
100.00	5.40	51.40	0.03	15.75	M8767-ND◊	3.69	2.77	2.46	PM2110-101K-RC
150.00	4.30	77.30	0.05	14.99	M6160-ND	3.69	2.77	2.46	PM2110-151K
150.00	4.30	77.30	0.05	14.99	M8768-ND◊	3.13	2.35	2.09	PM2110-151K-RC
180.00	3.70	96.30	0.07	13.46	M8769-ND◊	3.69	2.77	2.46	PM2110-181K-RC
220.00	3.50	113.80	0.07	15.24	M6162-ND	3.69	2.77	2.46	PM2110-221K
220.00	3.50	113.80	0.07	15.24	M8770-ND◊	3.13	2.35	2.09	PM2110-221K-RC
270.00	3.40	134.90	0.08	15.24	M6163-ND	3.69	2.77	2.46	PM2110-271K
270.00	3.40	134.90	0.08	15.24	M8771-ND◊	3.13	2.35	2.09	PM2110-271K-RC
330.00	3.20	159.50	0.09	15.24	M8772-ND◊	3.13	2.35	2.09	PM2110-331K-RC
390.00	3.10	182.90	0.10	15.24	M8773-ND◊	3.13	2.35	2.09	PM2110-391K-RC
470.00	2.60	230.40	0.13	14.48	M6166-ND	3.69	2.77	2.46	PM2110-471K
470.00	2.60	230.40	0.13	14.48	M8774-ND◊	3.13	2.35	2.09	PM2110-471K-RC
680.00	2.10	337.10	0.20	13.72	M6168-ND	3.69	2.77	2.46	PM2110-681K
820.00	2.00	394.10	0.22	15.24	M6169-ND	3.69	2.77	2.46	PM2110-821K
820.00	2.00	394.10	0.22	15.24	M8775-ND◊	3.13	2.35	2.09	PM2110-821K-RC
1000.00	1.90	463.70	0.24	15.24	M8776-ND◊	3.13	2.35	2.09	PM2110-102K-RC

◊ ***RoHS Compliant***

J.W.Miller
MAGNETICS

Surface Mount High Current Toroid Inductors — PM2120 Series

Dim. in mm

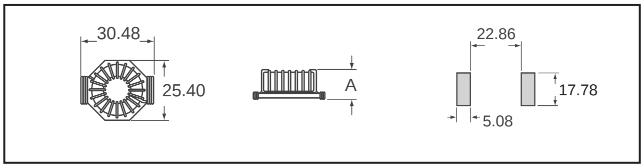

L (µH) @ 1KHz	I,dc (A)	L (µH) ±20% @ Rated I	DCR (Ω) Max.	Dim. A (mm) Max.	Digi-Key Part No.	Price Each			J.W. Miller Part No.
						1	10	25	
PM2120 Series 20%									
1.00	25.40	0.90	0.00	20.83	M6171-ND	4.08	3.06	2.72	PM2120-1R0M
1.50	22.00	1.30	0.00	20.83	M6173-ND	4.08	3.06	2.72	PM2120-1R5M
1.80	22.00	1.50	0.00	20.83	M6174-ND	4.08	3.06	2.72	PM2120-1R8M
2.20	19.70	1.80	0.00	20.83	M6175-ND	4.08	3.06	2.72	PM2120-2R2M
2.20	19.70	1.80	0.00	20.83	M8777-ND◊	3.06	2.30	2.04	PM2120-2R2M-RC
2.70	19.70	2.20	0.00	20.83	M6176-ND	4.08	3.06	2.72	PM2120-2R7M
3.30	18.00	2.60	0.00	20.83	M6177-ND	4.08	3.06	2.72	PM2120-3R3M
4.70	16.60	3.70	0.01	20.83	M6179-ND	4.08	3.06	2.72	PM2120-4R7M
4.70	16.60	3.70	0.01	20.83	M8778-ND◊	3.06	2.30	2.04	PM2120-4R7M-RC
5.60	15.60	4.20	0.01	20.83	M6180-ND	4.08	3.06	2.72	PM2120-5R6M
5.60	15.60	4.20	0.01	20.83	M8779-ND◊	3.06	2.30	2.04	PM2120-5R6M-RC
6.80	14.70	5.00	0.01	20.83	M6181-ND	4.08	3.06	2.72	PM2120-6R8M
6.80	14.70	5.00	0.01	20.83	M8780-ND◊	3.06	2.30	2.04	PM2120-6R8M-RC
8.20	14.70	6.10	0.01	20.83	M6182-ND	4.08	3.06	2.72	PM2120-8R2M
PM2120 Series 10%									
10.00	13.90	7.20	0.01	20.83	M8781-ND◊	3.12	2.34	2.08	PM2120-100K-RC
12.00	12.70	8.30	0.01	20.83	M6184-ND	4.08	3.06	2.72	PM2120-120K
12.00	12.70	8.30	0.01	20.83	M8782-ND◊	3.12	2.34	2.08	PM2120-120K-RC
15.00	12.20	10.20	0.01	20.83	M6185-ND	4.08	3.06	2.72	PM2120-150K
15.00	12.20	10.20	0.01	20.83	M8783-ND◊	4.08	3.06	2.72	PM2120-150K-RC
18.00	11.80	12.00	0.01	20.83	M8784-ND◊	3.12	2.34	2.08	PM2120-180K-RC
22.00	11.00	14.20	0.01	20.83	M8785-ND◊	3.12	2.34	2.08	PM2120-220K-RC
27.00	10.40	16.90	0.01	20.83	M6188-ND	4.08	3.06	2.72	PM2120-270K
27.00	10.40	16.90	0.01	20.83	M8786-ND◊	3.12	2.34	2.08	PM2120-270K-RC
33.00	10.10	20.30	0.01	20.83	M8787-ND◊	4.08	3.06	2.72	PM2120-330K-RC
39.00	9.60	23.30	0.01	20.83	M8788-ND◊	3.12	2.34	2.08	PM2120-390K-RC
47.00	8.20	29.20	0.02	20.07	M6191-ND	4.08	3.06	2.72	PM2120-470K
47.00	8.20	29.20	0.02	20.07	M8789-ND◊	3.12	2.34	2.08	PM2120-470K-RC
56.00	7.90	33.90	0.02	20.07	M6192-ND	4.08	3.06	2.72	PM2120-560K
56.00	7.90	33.90	0.02	20.07	M8790-ND◊	3.12	2.34	2.08	PM2120-560K-RC
68.00	6.70	42.20	0.03	19.56	M8791-ND◊	3.40	2.56	2.27	PM2120-680K-RC
82.00	6.40	49.50	0.03	22.10	M8792-ND◊	3.40	2.56	2.27	PM2120-820K-RC
100.00	6.10	58.70	0.04	22.10	M8793-ND◊	3.40	2.56	2.27	PM2120-101K-RC
120.00	5.80	68.10	0.04	22.10	M6196-ND	4.08	3.06	2.72	PM2120-121K
120.00	5.80	68.10	0.04	22.10	M8794-ND◊	3.40	2.56	2.27	PM2120-121K-RC
150.00	5.50	82.50	0.04	22.10	M8795-ND◊	4.08	3.06	2.72	PM2120-151K-RC
180.00	5.30	96.20	0.05	21.08	M8796-ND◊	3.40	2.56	2.27	PM2120-181K-RC
220.00	5.00	113.70	0.05	21.08	M8797-ND◊	4.08	3.06	2.72	PM2120-221K-RC
330.00	3.60	183.40	0.10	19.81	M8798-ND◊	3.40	2.56	2.27	PM2120-331K-RC
390.00	3.50	211.60	0.11	19.81	M6202-ND	4.08	3.06	2.72	PM2120-391K
390.00	3.50	211.60	0.11	19.81	M8799-ND◊	3.40	2.56	2.27	PM2120-391K-RC
470.00	3.30	247.10	0.12	21.59	M6203-ND	4.08	3.06	2.72	PM2120-471K
470.00	3.30	247.10	0.12	21.59	M8800-ND◊	3.06	2.30	2.04	PM2120-471K-RC
560.00	3.20	285.80	0.13	21.59	M6204-ND	4.08	3.06	2.72	PM2120-561K
820.00	2.90	392.50	0.16	21.59	M6206-ND	4.08	3.06	2.72	PM2120-821K
1000.00	2.50	499.70	0.22	20.83	M8801-ND◊	3.40	2.56	2.27	PM2120-102K-RC

◊ ***RoHS Compliant***

Surface Mount Chip Inductors

PM0603 Series

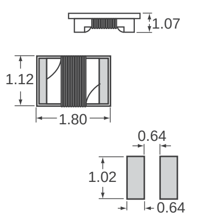

PM0805 Series

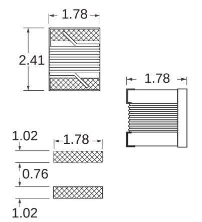

PM1008 Series

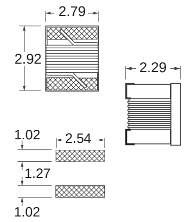

Features: • Ceramic Core, Wire Wound for Superior Reliability • High Self-Resonant Frequency • Flat Top Surface for Automated Pick and Place

L (nH)	Tol.	Q Min.	L Test Freq. MHz	R,dc Max. Ω	I,dc Max. mA	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing* 3,000	J.W.Miller Part No.
							1	10	100		
PM0603 Series											
2.2	±0.3 nH	18	250	0.08	700	M1243CT-ND	.58	.52	.44	—	PM0603-2N2
3.9	±0.3 nH	22	250	0.08	700	M1246CT-ND	.58	.52	.44	156.00/M	PM0603-3N9
3.9	±0.3 nH	22	250	0.08	700	M8489CT-ND◊	.39	.36	.30	117.00/M	PM0603-3N9-RC
4.7	±0.3 nH	20	250	0.13	700	M1248CT-ND	.58	.52	.44	—	PM0603-4N7
6.8	±5%	28	250	0.11	700	M1251CT-ND	.58	.52	.44	172.50/M	PM0603-6N8J
8.2	±5%	30	250	0.11	700	M1254CT-ND	.58	.52	.44	—	PM0603-8N2J
10	±5%	30	250	0.15	700	M8484CT-ND◊	.58	.52	.44	117.00/M	PM0603-10NJ-RC
12	±5%	30	250	0.13	700	M1238CT-ND	.58	.52	.44	—	PM0603-12NJ
18	±5%	35	250	0.17	700	M1240CT-ND	.58	.52	.44	—	PM0603-18NJ
18	±5%	35	250	0.17	700	M8485CT-ND◊	.39	.36	.30	117.00/M	PM0603-18NJ-RC
22	±5%	38	250	0.19	700	M1241CT-ND	.58	.52	.44	156.00/M	PM0603-22NJ
27	±5%	40	250	0.23	700	M1242CT-ND	.39	.36	.30	—	PM0603-27NJ
27	±5%	40	250	0.23	700	M8486CT-ND◊	.39	.36	.30	117.00/M	PM0603-27NJ-RC
33	±5%	43	250	0.23	600	M1244CT-ND	.39	.36	.30	156.00/M	PM0603-33NJ
33	±5%	43	250	0.23	600	M8487CT-ND◊	.58	.52	.44	117.00/M	PM0603-33NJ-RC
39	±5%	43	250	0.25	600	M1245CT-ND	.39	.36	.30	—	PM0603-39NJ
39	±5%	43	250	0.25	600	M8488CT-ND◊	.58	.52	.44	117.00/M	PM0603-39NJ-RC
47	±5%	40	200	0.28	600	M1247CT-ND	.58	.52	.44	—	PM0603-47NJ
47	±5%	40	200	0.28	600	M8490CT-ND◊	.58	.52	.44	117.00/M	PM0603-47NJ-RC
56	±5%	40	200	0.31	600	M1249CT-ND	.58	.52	.44	—	PM0603-56NJ
68	±5%	40	200	0.34	600	M1250CT-ND	.58	.52	.44	—	PM0603-68NJ
72	±5%	35	150	0.49	400	M1252CT-ND	.58	.52	.44	172.50/M	PM0603-72NJ
82	±5%	35	150	0.54	400	M1253CT-ND	.39	.36	.30	—	PM0603-82NJ
82	±5%	35	150	0.54	400	M8491CT-ND◊	.39	.36	.30	117.00/M	PM0603-82NJ-RC
100	±5%	35	150	0.58	400	M8492CT-ND◊	.39	.36	.30	117.00/M	PM0603-R10J-RC
120	±5%	35	150	0.65	300	M1256CT-ND	.58	.52	.44	156.00/M	PM0603-R12J
120	±5%	35	150	0.65	300	M8493CT-ND◊	.39	.36	.30	117.00/M	PM0603-R12J-RC
150	±5%	30	150	0.92	280	M1257CT-ND	.58	.52	.44	172.50/M	PM0603-R15J
180	±5%	30	100	1.25	240	M1258CT-ND	.58	.52	.44	172.50/M	PM0603-R18J
220	±5%	30	100	2.10	200	M1259CT-ND	.58	.52	.44	172.50/M	PM0603-R22J
270	±5%	30	100	2.30	170	M1260CT-ND	.58	.52	.44	172.50/M	PM0603-R27J

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

L	Tol. %	Q Min.	L Test Freq. MHz	R,dc Max. Ω	I,dc Max. mA	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing* 2,000	J.W.Miller Part No.
							1	10	100		
PM0805 Series											
2.2nH	20	15	250	0.08	600	M1150CT-ND	.53	.48	.40	157.50/M	PM0805-2N2M
3.3nH	20	50	250	0.08	600	M1151CT-ND	.53	.48	.40	157.50/M	PM0805-3N3M
6.8nH	20	50	250	0.11	600	M1152CT-ND	.53	.48	.40	160.00/M	PM0805-6N8M
6.8nH	20	50	250	0.11	600	M8452CT-ND◊	.53	.48	.40	120.00/M	PM0805-6N8M-RC
8.2nH	20	50	250	0.12	600	M1153CT-ND	.53	.48	.40	160.00/M	PM0805-8N2M
8.2nH	20	50	250	0.12	600	M8453CT-ND◊	.40	.36	.30	120.00/M	PM0805-8N2M-RC
12nH	20	50	250	0.15	600	M1154CT-ND	.53	.48	.40	160.00/M	PM0805-12NM
12nH	20	50	250	0.15	600	M8454CT-ND◊	.40	.36	.30	120.00/M	PM0805-12NM-RC
15nH	20	50	250	0.17	600	M1155CT-ND	.53	.48	.40	157.50/M	PM0805-15NM
18nH	20	50	250	0.20	600	M1156CT-ND	.53	.48	.40	157.50/M	PM0805-18NM
22nH	20	55	250	0.22	500	M8455CT-ND◊	.53	.48	.40	157.50/M	PM0805-22NM-RC
27nH	20	55	250	0.25	500	M1158CT-ND	.53	.48	.40	—	PM0805-27NM
27nH	20	55	250	0.25	500	M8456CT-ND◊	.53	.48	.40	120.00/M	PM0805-27NM-RC
33nH	20	60	250	0.27	500	M1159CT-ND	.53	.48	.40	—	PM0805-33NM
33nH	20	60	250	0.27	500	M8457CT-ND◊	.53	.48	.40	120.00/M	PM0805-33NM-RC
39nH	20	60	250	0.29	500	M1160CT-ND	.53	.48	.40	—	PM0805-39NM
39nH	20	60	250	0.29	500	M8458CT-ND◊	.53	.48	.40	120.00/M	PM0805-39NM-RC
47nH	20	60	200	0.31	500	M1161CT-ND	.53	.48	.40	160.00/M	PM0805-47NM
47nH	20	60	200	0.31	500	M8459CT-ND◊	.40	.36	.30	120.00/M	PM0805-47NM-RC
.056µH	10	60	200	0.34	500	M1162CT-ND	.53	.48	.40	—	PM0805-56NK
.056µH	10	60	200	0.34	500	M8460CT-ND◊	.53	.48	.40	120.00/M†	PM0805-56NK-RC
.068µH	10	60	200	0.38	500	M1163CT-ND	.53	.48	.40	—	PM0805-68NK
.068µH	10	60	200	0.38	500	M8461CT-ND◊	.53	.48	.40	120.00/M	PM0805-68NK-RC
.082µH	10	65	150	0.42	400	M1164CT-ND	.40	.36	.30	157.50/M†	PM0805-82NK
.082µH	10	65	150	0.42	400	M8462CT-ND◊	.40	.36	.30	120.00/M†	PM0805-82NK-RC
.10µH	10	65	150	0.46	400	M1165CT-ND	.53	.48	.40	—	PM0805-R10K
.10µH	10	65	150	0.46	400	M8463CT-ND◊	.40	.36	.30	120.00/M	PM0805-R10K-RC
.12µH	10	50	150	0.51	400	M1166CT-ND	.53	.48	.40	160.00/M	PM0805-R12K

* For Tape and Reel part number, change CT-ND to TR-ND. † Reel size 3,000
◊ ***RoHS Compliant***

(Continued)

J.W.Miller MAGNETICS

Surface Mount Chip Inductors *(Cont.)*

L	Tol. %	Q Min.	L Test Freq. MHz	R,dc Max. Ω	I,dc Max. mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 2,000	J.W.Miller Part No.
.12µH	10	50	150	0.51	400	M8464CT-ND◊	.53	.48	.40	120.00/M	PM0805-R12K-RC
.15µH	10	50	100	0.56	400	M1167CT-ND	.40	.36	.30	160.00/M	PM0805-R15K
.15µH	10	50	100	0.56	400	M8465CT-ND◊	.40	.36	.30	120.00/M	PM0805-R15K-RC
.18µH	10	50	100	0.64	400	M1168CT-ND	.53	.48	.40	157.50/M	PM0805-R18K
.22µH	10	50	100	0.70	400	M1169CT-ND	.53	.48	.40	—	PM0805-R22K
.22µH	10	50	100	0.70	400	M8466CT-ND◊	.40	.36	.30	120.00/M	PM0805-R22K-RC
.27µH	10	40	100	1.1	280	M1170CT-ND	.53	.48	.40	160.00/M	PM0805-R27K
.33µH	10	40	100	1.2	260	M1171CT-ND	.53	.48	.40	157.50/M	PM0805-R33K
.39µH	10	40	100	1.5	200	M1172CT-ND	.53	.48	.40	157.50/M	PM0805-R39K
PM1008 Series											
10nH	20	50	50	0.08	1000	M1176CT-ND	.53	.48	.40	157.50/M	PM1008-10NM
12nH	20	50	50	0.09	1000	M1177CT-ND	.53	.48	.40	157.50/M	PM1008-12NM
15nH	20	50	50	0.10	1000	M1178CT-ND	.53	.48	.40	—	PM1008-15NM
18nH	20	50	50	0.11	1000	M1179CT-ND	.53	.48	.40	—	PM1008-18NM
18nH	20	50	50	0.11	1000	M8467CT-ND◊	.53	.48	.40	157.50/M	PM1008-18NM-RC
22nH	20	55	50	0.12	1000	M1180CT-ND	.53	.48	.40	210.00/M	PM1008-22NM
22nH	20	55	50	0.12	1000	M8468CT-ND◊	.53	.48	.40	120.00/M	PM1008-22NM-RC
27nH	20	55	50	0.13	1000	M1181CT-ND	.40	.36	.30	160.00/M	PM1008-27NM
27nH	20	55	50	0.13	1000	M8469CT-ND◊	.53	.48	.40	157.50/M	PM1008-27NM-RC
33nH	20	60	50	0.14	1000	M1182CT-ND	.53	.48	.40	157.50/M	PM1008-33NM
39nH	20	60	50	0.15	1000	M1183CT-ND	.53	.48	.40	157.50/M	PM1008-39NM
47nH	20	65	50	0.16	1000	M1184CT-ND	.53	.48	.40	—	PM1008-47NM
56nH	10	65	50	0.18	1000	M1185CT-ND	.53	.48	.40	157.50/M	PM1008-56NK
68nH	10	65	50	0.20	1000	M1186CT-ND	.53	.48	.40	210.00/M	PM1008-68NK
68nH	10	65	50	0.20	1000	M8470CT-ND◊	.53	.48	.40	157.50/M	PM1008-68NK-RC
82nH	10	60	50	0.22	1000	M1187CT-ND	.53	.48	.40	210.00/M	PM1008-82NK
82nH	10	60	50	0.22	1000	M8471CT-ND◊	.53	.48	.40	157.50/M	PM1008-82NK-RC
.10µH	10	60	25	0.56	650	M1188CT-ND	.53	.48	.40	157.50/M	PM1008-R10K
.12µH	10	60	25	0.68	650	M1189CT-ND	.53	.48	.40	157.50/M	PM1008-R12K
.15µH	10	45	25	0.70	580	M1190CT-ND	.53	.48	.40	—	PM1008-R15K
.18µH	10	45	25	0.77	620	M1191CT-ND	.53	.48	.40	—	PM1008-R18K
.22µH	10	45	25	0.84	500	M1192CT-ND	.53	.48	.40	—	PM1008-R22K
.27µH	10	45	25	0.91	500	M1193CT-ND	.53	.48	.40	—	PM1008-R27K
.33µH	10	45	25	1.05	450	M1194CT-ND	.53	.48	.40	160.00/M	PM1008-R33K
.33µH	10	45	25	1.05	450	M8472CT-ND◊	.40	.36	.30	120.00/M	PM1008-R33K-RC
.39µH	10	45	25	1.12	470	M1195CT-ND	.53	.48	.40	—	PM1008-R39K
.47µH	10	45	25	1.19	470	M1196CT-ND	.53	.48	.40	—	PM1008-R47K
.47µH	10	45	25	1.19	470	M8473CT-ND◊	.53	.48	.40	120.00/M	PM1008-R47K-RC
.68µH	10	45	25	1.47	400	M8474CT-ND◊	.40	.36	.30	120.00/M	PM1008-R68K-RC
.82µH	10	45	25	1.61	400	M1199CT-ND	.53	.48	.40	160.00/M	PM1008-R82K
.82µH	10	45	25	1.61	400	M8475CT-ND◊	.40	.36	.30	120.00/M	PM1008-R82K-RC
1.0µH	10	35	25	1.75	370	M8476CT-ND◊	.40	.36	.30	120.00/M	PM1008-1R0K-RC
1.2µH	10	35	7.9	2.00	340	M1201CT-ND	.53	.48	.40	—	PM1008-1R2K
1.2µH	10	35	7.9	2.00	340	M8477CT-ND◊	.40	.36	.30	120.00/M	PM1008-1R2K-RC
1.5µH	10	28	7.9	2.30	330	M1202CT-ND	.53	.48	.40	160.00/M	PM1008-1R5K
1.5µH	10	28	7.9	2.30	330	M8478CT-ND◊	.40	.36	.30	120.00/M	PM1008-1R5K-RC
1.8µH	10	28	7.9	2.60	300	M1203CT-ND	.53	.48	.40	—	PM1008-1R8K
1.8µH	10	28	7.9	2.60	300	M8479CT-ND◊	.40	.36	.30	120.00/M	PM1008-1R8K-RC
2.2µH	10	28	7.9	2.80	290	M1204CT-ND	.53	.48	.40	160.00/M	PM1008-2R2K
2.2µH	10	28	7.9	2.80	290	M8480CT-ND◊	.40	.36	.30	120.00/M	PM1008-2R2K-RC
2.7µH	10	22	7.9	3.20	290	M1205CT-ND	.53	.48	.40	—	PM1008-2R7K
2.7µH	10	22	7.9	3.20	290	M8481CT-ND◊	.40	.36	.30	120.00/M	PM1008-2R7K-RC
3.3µH	10	22	7.9	3.40	290	M8482CT-ND◊	.40	.36	.30	120.00/M	PM1008-3R3K-RC
3.9µH	10	20	7.9	3.60	260	M1207CT-ND	.53	.48	.40	157.50/M	PM1008-3R9K
4.7µH	10	20	7.9	4.00	260	M1208CT-ND	.40	.36	.30	160.00/M	PM1008-4R7K
4.7µH	10	20	7.9	4.00	260	M8483CT-ND◊	.40	.36	.30	120.00/M	PM1008-4R7K-RC

* For Tape and Reel part number, change CT-ND to TR-ND. † Reel size 3,000
◊ ***RoHS Compliant***

Surface Mount Power Inductors —
PM3308 Series

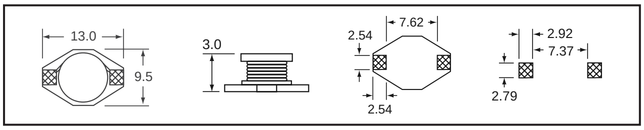

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 1,000	J.W.Miller Part No.
10	0.11	2.4	2.0	M9719CT-ND	2.25	2.03	1.69	680.00	PM3308-100M
10	0.11	2.4	2.0	M8576CT-ND◊	1.70	1.53	1.28	510.00	PM3308-100M-RC
22	0.23	1.6	1.3	M9721CT-ND	2.25	2.03	1.69	—	PM3308-220M
22	0.23	1.6	1.3	M8577CT-ND◊	1.70	1.53	1.28	510.00	PM3308-220M-RC
33	0.30	1.4	1.1	M9722CT-ND	2.25	2.03	1.69	—	PM3308-330M
33	0.30	1.4	1.1	M8578CT-ND◊	1.70	1.53	1.28	510.00	PM3308-330M-RC
47	0.39	1.0	0.8	M9723CT-ND	1.70	1.53	1.28	—	PM3308-470M
47	0.39	1.0	0.8	M8579CT-ND◊	1.70	1.53	1.28	510.00	PM3308-470M-RC
68	0.66	0.9	0.7	M8580CT-ND◊	1.70	1.53	1.28	510.00	PM3308-680M-RC
100	0.84	0.7	0.6	M9725CT-ND	2.25	2.03	1.69	—	PM3308-101M
220	1.9	0.5	0.4	M9727CT-ND	2.25	2.03	1.69	—	PM3308-221M
330	2.7	0.4	0.3	M9728CT-ND	2.25	2.03	1.69	680.00	PM3308-331M
330	2.7	0.4	0.3	M8581CT-ND◊	1.70	1.53	1.28	510.00	PM3308-331M-RC
470	4.0	0.3	0.2	M9729CT-ND	2.25	2.03	1.69	—	PM3308-471M
470	4.0	0.3	0.2	M8582CT-ND◊	1.70	1.53	1.28	510.00	PM3308-471M-RC
680	5.3	0.2	0.1	M9730CT-ND	2.25	2.03	1.69	680.00	PM3308-681M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Surface Mount Power Inductors —
PM3316 Series

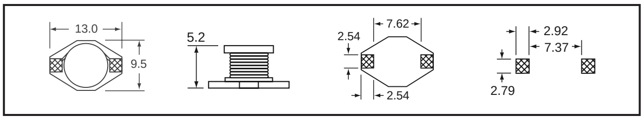

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 500	J.W.Miller Part No.
1.0	0.009	9.0	6.8	M9700CT-ND	2.13	1.92	1.60	—	PM3316-1R0M
1.0	0.009	9.0	6.8	M8557CT-ND◊	2.13	1.92	1.60	180.00	PM3316-1R0M-RC
1.5	0.010	8.0	6.4	M9701CT-ND	2.13	1.92	1.60	—	PM3316-1R5M
1.5	0.010	8.0	6.4	M8558CT-ND◊	1.20	1.08	.90	180.00	PM3316-1R5M-RC
2.2	0.012	7.0	6.1	M9702CT-ND	2.13	1.92	1.60	—	PM3316-2R2M
2.2	0.012	7.0	6.1	M8559CT-ND◊	1.20	1.08	.90	180.00	PM3316-2R2M-RC
3.3	0.015	6.4	5.4	M8560CT-ND◊	1.20	1.08	.90	180.00	PM3316-3R3M-RC
4.7	0.018	5.4	4.8	M8561CT-ND◊	1.20	1.08	.90	180.00	PM3316-4R7M-RC
6.8	0.027	4.6	4.4	M8562CT-ND◊	1.20	1.08	.90	180.00	PM3316-6R8M-RC
10	0.038	3.8	3.9	M8563CT-ND◊	1.20	1.08	.90	180.00	PM3316-100M-RC
15	0.046	3.0	3.1	M8564CT-ND◊	1.20	1.08	.90	180.00	PM3316-150M-RC
22	0.085	2.6	2.7	M9708CT-ND	2.13	1.92	1.60	240.00	PM3316-220M
22	0.085	2.6	2.7	M8565CT-ND◊	1.20	1.08	.90	180.00	PM3316-220M-RC
33	0.10	2.0	2.1	M8566CT-ND◊	1.20	1.08	.90	180.00	PM3316-330M-RC
47	0.14	1.6	1.8	M8567CT-ND◊	2.13	1.92	1.60	180.00	PM3316-470M-RC
68	0.20	1.4	1.5	M9711CT-ND	2.13	1.92	1.60	—	PM3316-680M
68	0.20	1.4	1.5	M8568CT-ND◊	1.20	1.08	.90	180.00	PM3316-680M-RC
100	0.28	1.2	1.3	M8569CT-ND◊	1.20	1.08	.90	180.00	PM3316-101M-RC
150	0.40	1.0	1.0	M8570CT-ND◊	2.13	1.92	1.60	180.00	PM3316-151M-RC
220	0.61	0.8	0.8	M8571CT-ND◊	1.20	1.08	.90	180.00	PM3316-221M-RC
330	1.02	0.6	0.6	M8572CT-ND◊	1.20	1.08	.90	180.00	PM3316-331M-RC
470	1.27	0.5	0.5	M8573CT-ND◊	1.20	1.08	.90	180.00	PM3316-471M-RC
680	2.02	0.4	0.4	M8574CT-ND◊	1.20	1.08	.90	180.00	PM3316-681M-RC
1000	3.00	0.3	0.3	M8575CT-ND◊	1.20	1.08	.90	180.00	PM3316-102M-RC

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Surface Mount Power Inductors —
PM3340 Series

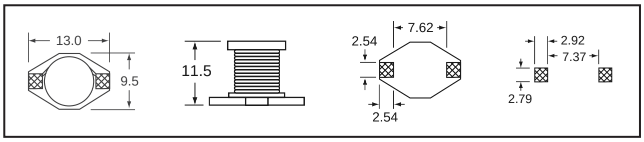

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 225	J.W.Miller Part No.
10	0.033	8.0	3.5	M9732CT-ND	2.43	2.19	1.82	218.25	PM3340-100M
10	0.033	8.0	3.5	M8583CT-ND◊	1.75	1.58	1.32	118.13	PM3340-100M-RC
15	0.042	7.0	3.0	M9733CT-ND	2.43	2.19	1.82	157.50	PM3340-150M
15	0.042	7.0	3.0	M8584CT-ND◊	1.75	1.58	1.32	118.13	PM3340-150M-RC
22	0.054	5.5	2.5	M9734CT-ND	2.43	2.19	1.82	157.50	PM3340-220M
22	0.054	5.5	2.5	M8585CT-ND◊	2.43	2.19	1.82	118.13	PM3340-220M-RC
33	0.08	4.0	2.0	M8586CT-ND◊	1.75	1.58	1.32	118.13	PM3340-330M-RC
47	0.1	3.8	1.6	M9736CT-ND	2.43	2.19	1.82	163.69	PM3340-470M
47	0.1	3.8	1.6	M8587CT-ND◊	2.43	2.19	1.82	163.69	PM3340-470M-RC
68	0.17	3.0	1.2	M9737CT-ND	1.75	1.58	1.32	157.50	PM3340-680M
68	0.17	3.0	1.2	M8588CT-ND◊	1.75	1.58	1.32	118.13	PM3340-680M-RC
100	0.22	2.5	1.2	M8589CT-ND◊	1.75	1.58	1.32	118.13	PM3340-101M-RC
150	0.34	2.0	0.9	M9739CT-ND	2.43	2.19	1.82	157.50	PM3340-151M
150	0.34	2.0	0.9	M8590CT-ND◊	1.75	1.58	1.32	118.13	PM3340-151M-RC
220	0.44	1.6	0.7	M8591CT-ND◊	1.75	1.58	1.32	118.13	PM3340-221M-RC
330	0.7	1.2	0.6	M8592CT-ND◊	1.75	1.58	1.32	118.13	PM3340-331M-RC
470	0.95	1.0	0.3	M9742CT-ND	2.43	2.19	1.82	157.50	PM3340-471M
1000	2.0	0.8	0.1	M8593CT-ND◊	1.75	1.58	1.32	118.13	PM3340-102M-RC

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

J.W.Miller
MAGNETICS

Surface Mount Power Inductors — PM5022 Series

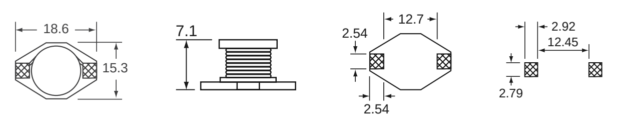

L ±20% (µH)	R, dc Max. Ω	I, sat. Amp	I, rms Amp	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 250	J.W.Miller Part No.
1.0	0.011	20	8.6	M9745CT-ND	1.65	1.49	1.24	135.00	PM5022-1R0M
2.2	0.014	16	7.1	M8595CT-ND◊	1.35	1.22	1.02	101.25	PM5022-2R2M-RC
3.3	0.016	14	6.2	M8596CT-ND◊	1.65	1.49	1.24	101.25	PM5022-3R3M-RC
5.6	0.022	12	5.3	M9746CT-ND	1.35	1.22	1.02	135.00	PM5022-5R6M
5.6	0.022	12	5.3	M8594CT-ND◊	1.35	1.22	1.02	101.25	PM5022-5R6M-RC
10	0.032	10	4.3	M8597CT-ND◊	1.35	1.22	1.02	101.25	PM5022-100M-RC
15	0.036	8	4.0	M8598CT-ND◊	1.35	1.22	1.02	101.25	PM5022-150M-RC
22	0.047	7	3.5	M8599CT-ND◊	1.35	1.22	1.02	101.25	PM5022-220M-RC
33	0.066	5.5	3.0	M8600CT-ND◊	1.35	1.22	1.02	105.00	PM5022-330M-RC
47	0.087	4.5	2.6	M8601CT-ND◊	1.35	1.22	1.02	101.25	PM5022-470M-RC
68	0.13	3.5	2.3	M8602CT-ND◊	1.35	1.22	1.02	101.25	PM5022-680M-RC
100	0.19	3.0	1.8	M8603CT-ND◊	1.35	1.22	1.02	101.25	PM5022-101M-RC
150	0.25	2.6	1.5	M8604CT-ND◊	1.35	1.22	1.02	101.25	PM5022-151M-RC
220	0.38	2.4	1.2	M8605CT-ND◊	1.65	1.49	1.24	123.75	PM5022-221M-RC
330	0.56	1.9	1.0	M8606CT-ND◊	1.35	1.22	1.02	101.25	PM5022-331M-RC
470	0.85	1.4	0.82	M8607CT-ND◊	1.35	1.22	1.02	101.25	PM5022-471M-RC
680	1.2	1.2	0.72	M9762CT-ND	1.35	1.22	1.02	135.00	PM5022-681M
680	1.2	1.2	0.72	M8608CT-ND◊	1.35	1.22	1.02	101.25	PM5022-681M-RC
1000	1.8	1.0	0.56	M8609CT-ND◊	1.65	1.49	1.24	101.25	PM5022-102M-RC

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Surface Mount Power Inductors

PM43

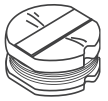

PM54

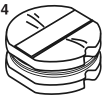

PM105

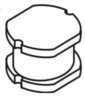

PM105S

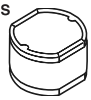

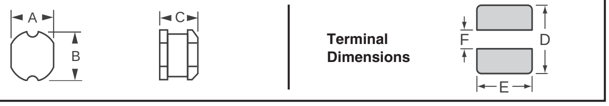

Series	A	B	C	D Typ.	E Typ.	F Typ.
	Dimensions (mm)					
PM43	4.0 ± 0.3	4.5 ± 0.3	3.2 ± 0.3	4.5	4.0	1.2
PM54	5.2 ± 0.3	5.8 ± 0.3	4.5 ± 0.3	5.8	5.2	1.3
PM105	9.0 ± 0.4	10.0 ± 0.4	5.4 ± 0.4	10.0	9.5	2.5
PM105S/SB	9.2 ± 0.4	10.0 ± 0.4	5.0 ± 0.5	10.0	9.5	2.5

L (µH)	Tol. %	Test Freq.	Max. DCR Ω	Rated I Amps	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing* 1,500	J.W.Miller Part No.
					PM43 Series					
10	20	2.5MHz	0.182	1.04	M8503CT-ND◊	1.45	1.31	1.09	435.00/M	PM43-100M-RC
12	20	2.5MHz	0.210	0.97	M3120CT-ND	1.63	1.47	1.23	580.00/M	PM43-120M
12	20	2.5MHz	0.210	0.97	M8504CT-ND◊	1.45	1.31	1.09	435.00/M	PM43-120M-RC
15	20	2.5MHz	0.235	0.85	M3150CT-ND	1.63	1.47	1.23	580.00/M	PM43-150M
15	20	2.5MHz	0.235	0.85	M8505CT-ND◊	1.63	1.47	1.23	435.00/M	PM43-150M-RC
18	20	2.5MHz	0.338	0.74	M3180CT-ND	1.63	1.47	1.23	489.00/M	PM43-180M
22	20	2.5MHz	0.378	0.68	M8506CT-ND◊	1.45	1.31	1.09	435.00/M	PM43-220M-RC
27	20	2.5MHz	0.522	0.62	M3327CT-ND	2.38	2.15	1.79	—	PM43-270M
33	10	2.5MHz	0.540	0.56	M8507CT-ND◊	1.45	1.31	1.09	435.00/M	PM43-330K-RC
39	10	2.5MHz	0.587	0.52	M3390CT-ND	1.63	1.47	1.23	489.00/M	PM43-390K
47	10	2.5MHz	0.844	0.44	M8508CT-ND◊	1.45	1.31	1.09	435.00/M	PM43-470K-RC
56	10	2.5MHz	0.937	0.42	M3560CT-ND	1.45	1.31	1.09	—	PM43-560K
56	10	2.5MHz	0.937	0.42	M8509CT-ND◊	1.45	1.31	1.09	435.00/M	PM43-560K-RC
68	10	2.5MHz	1.117	0.37	M3680CT-ND	1.63	1.47	1.23	—	PM43-680K
68	10	2.5MHz	1.117	0.37	M8510CT-ND◊	1.45	1.31	1.09	435.00/M	PM43-680K-RC
					PM54 Series					
10	20	2.5MHz	0.10	1.44	M8511CT-ND◊	1.00	.90	.75	300.00/M	PM54-100M-RC
12	20	2.5MHz	0.12	1.40	M4120CT-ND	1.63	1.47	1.23	580.00/M	PM54-120M
12	20	2.5MHz	0.12	1.40	M8513CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-120M-RC
15	20	2.5MHz	0.14	1.30	M4150CT-ND	1.63	1.47	1.23	—	PM54-150M
15	20	2.5MHz	0.14	1.30	M8514CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-150M-RC
18	20	2.5MHz	0.15	1.23	M4180CT-ND	1.35	1.22	1.02	—	PM54-180M
18	20	2.5MHz	0.15	1.23	M8516CT-ND◊	.15	.14	.11	435.00/M	PM54-180M-RC
22	20	2.5MHz	0.18	1.11	M8518CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-220M-RC
27	20	2.5MHz	0.20	0.97	M4270CT-ND	1.63	1.47	1.23	—	PM54-270M
27	20	2.5MHz	0.20	0.97	M8520CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-270M-RC
33	15	2.5MHz	0.23	0.88	M4330CT-ND	1.63	1.47	1.23	—	PM54-330L
33	15	2.5MHz	0.23	0.88	M8521CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-330L-RC
39	15	2.5MHz	0.32	0.80	M4390CT-ND	1.63	1.47	1.23	—	PM54-390L
39	15	2.5MHz	0.32	0.80	M8522CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-390L-RC
47	15	2.5MHz	0.37	0.72	M4470CT-ND	1.63	1.47	1.23	580.00/M	PM54-470L
47	15	2.5MHz	0.37	0.72	M8523CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-470L-RC
56	10	2.5MHz	0.42	0.68	M4560CT-ND	1.45	1.31	1.09	580.00/M	PM54-560K
68	10	2.5MHz	0.46	0.61	M4680CT-ND	1.63	1.47	1.23	—	PM54-680K
68	10	2.5MHz	0.46	0.61	M8524CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-680K-RC
82	10	2.5MHz	0.60	0.58	M8525CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-820K-RC
100	10	1KHz	0.70	0.52	M8512CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-101K-RC
120	10	1KHz	0.93	0.48	M4121CT-ND	1.63	1.47	1.23	652.00/M	PM54-121K
150	10	1KHz	1.10	0.40	M4151CT-ND	1.63	1.47	1.23	580.00/M	PM54-151K
150	10	1KHz	1.10	0.40	M8515CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-151K-RC
180	10	1KHz	1.38	0.38	M4181CT-ND	1.45	1.31	1.09	—	PM54-181K
180	10	1KHz	1.38	0.38	M8517CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-181K-RC
220	10	1KHz	1.57	0.35	M8519CT-ND◊	1.45	1.31	1.09	435.00/M	PM54-221K-RC

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

L (µH)	Tol. %	Test Freq.	Max. DCR Ω	Rated I Amps	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing* 500	J.W.Miller Part No.
					PM105 Series					
10	20	2.5MHz	0.06	2.60	M1001CT-ND	2.75	2.48	2.07	412.50	PM105-100M
10	20	2.5MHz	0.06	2.60	M8413CT-ND◊	1.90	1.71	1.43	285.00	PM105-100M-RC
12	20	2.5MHz	0.07	2.45	M1002CT-ND	2.75	2.48	2.07	412.50	PM105-120M
15	20	2.5MHz	0.08	2.27	M1003CT-ND	2.75	2.48	2.07	412.50	PM105-150M
15	20	2.5MHz	0.08	2.27	M8414CT-ND◊	1.90	1.71	1.43	285.00	PM105-150M-RC
18	20	2.5MHz	0.09	2.15	M1004CT-ND	1.90	1.71	1.43	—	PM105-180M
22	20	2.5MHz	0.10	1.95	M1005CT-ND	2.75	2.48	2.07	—	PM105-220M
22	20	2.5MHz	0.10	1.95	M8415CT-ND◊	1.90	1.71	1.43	—	PM105-220M-RC
33	20	2.5MHz	0.12	1.50	M1007CT-ND	1.90	1.71	1.43	412.50	PM105-330M
33	20	2.5MHz	0.12	1.50	M8416CT-ND◊	1.90	1.71	1.43	285.00	PM105-330M-RC
39	20	2.5MHz	0.14	1.37	M1008CT-ND	2.75	2.48	2.07	—	PM105-390M
39	20	2.5MHz	0.14	1.37	M8417CT-ND◊	1.90	1.71	1.43	285.00	PM105-390M-RC
47	10	2.5MHz	0.17	1.28	M1009CT-ND	2.75	2.48	2.07	412.50	PM105-470K
47	10	2.5MHz	0.17	1.28	M8418CT-ND◊	1.90	1.71	1.43	285.00	PM105-470K-RC
56	10	2.5MHz	0.19	1.17	M1010CT-ND	4.19	3.77	3.14	627.75	PM105-560K
56	10	2.5MHz	0.19	1.17	M8419CT-ND◊	2.75	2.48	2.07	285.00	PM105-560K-RC
68	10	2.5MHz	0.22	1.11	M1011CT-ND	2.75	2.48	2.07	412.50	PM105-680K
68	10	2.5MHz	0.22	1.11	M8420CT-ND◊	1.90	1.71	1.43	285.00	PM105-680K-RC
82	10	2.5MHz	0.25	1.00	M1012CT-ND	2.75	2.48	2.07	—	PM105-820K
82	10	2.5MHz	0.25	1.00	M8421CT-ND◊	1.90	1.71	1.43	285.00	PM105-820K-RC
100	10	1kHz	0.35	0.97	M1013CT-ND	1.90	1.71	1.43	—	PM105-101K
100	10	1kHz	0.35	0.97	M8422CT-ND◊	1.90	1.71	1.43	262.50	PM105-101K-RC
120	10	1kHz	0.40	0.89	M8423CT-ND◊	1.90	1.71	1.43	285.00	PM105-121K-RC
150	10	1kHz	0.47	0.78	M1015CT-ND	1.90	1.71	1.43	—	PM105-151K
150	10	1kHz	0.47	0.78	M8424CT-ND◊	1.90	1.71	1.43	285.00	PM105-151K-RC
180	10	1kHz	0.63	0.72	M8425CT-ND◊	1.90	1.71	1.43	285.00	PM105-181K-RC
220	10	1kHz	0.73	0.66	M1017CT-ND	2.75	2.48	2.07	412.50	PM105-221K
220	10	1kHz	0.73	0.66	M8426CT-ND◊	1.90	1.71	1.43	285.00	PM105-221K-RC
270	10	1kHz	0.97	0.57	M8427CT-ND◊	1.90	1.71	1.43	285.00	PM105-271K-RC
330	10	1kHz	1.15	0.52	M8428CT-ND◊	1.90	1.71	1.43	285.00	PM105-331K-RC
470	10	1kHz	1.48	0.42	M1021CT-ND	2.75	2.48	2.07	—	PM105-471K
470	10	1kHz	1.48	0.42	M8429CT-ND◊	1.90	1.71	1.43	285.00	PM105-471K-RC
560	10	1kHz	1.90	0.33	M8430CT-ND◊	1.90	1.71	1.43	285.00	PM105-561K-RC
680	10	1kHz	2.25	0.28	M1023CT-ND	2.75	2.48	2.07	—	PM105-681K
680	10	1kHz	2.25	0.28	M8431CT-ND◊	2.75	2.48	2.07	285.00	PM105-681K-RC
820	10	1kHz	2.55	0.24	M8432CT-ND◊	1.90	1.71	1.43	285.00	PM105-821K-RC
					PM105S/SB (Shielded) Series					
10	20	2.5MHz	0.06	2.06	M8433CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-100M-RC
12	20	2.5MHz	0.06	2.31	M1026CT-ND	3.75	3.38	2.82	562.50	PM105S-120M
12	20	2.5MHz	0.07	1.94	M8434CT-ND◊	3.75	3.38	2.82	562.50	PM105SB-120M-RC
15	20	2.5MHz	0.07	2.06	M1027CT-ND	3.75	3.38	2.82	562.50	PM105S-150M
15	20	2.5MHz	0.07	1.72	M8435CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-150M-RC
18	20	2.5MHz	0.08	1.58	M8436CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-180M-RC
22	20	2.5MHz	0.08	1.42	M8437CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-220M-RC
27	20	2.5MHz	0.10	1.32	M8438CT-ND◊	1.46	1.31	1.10	220.50	PM105SB-270M-RC
33	15	2.5MHz	0.11	1.16	M8439CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-330L-RC
39	20	2.5MHz	0.16	1.28	M1032CT-ND	3.75	3.38	2.82	562.50	PM105S-390M
39	15	2.5MHz	0.12	1.10	M8440CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-390L-RC
47	15	2.5MHz	0.14	1.00	M8441CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-470L-RC
56	20	2.5MHz	0.19	1.07	M1034CT-ND	3.75	3.38	2.82	562.50	PM105S-560M
56	15	2.5MHz	0.19	0.93	M8442CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-560L-RC
68	20	2.5MHz	0.22	0.97	M1035CT-ND	3.75	3.38	2.82	562.50	PM105S-680M
82	20	2.5MHz	0.28	0.88	M1036CT-ND	3.75	3.38	2.82	—	PM105S-820M
82	15	2.5MHz	0.28	0.79	M8443CT-ND◊	3.75	3.38	2.82	220.50	PM105SB-820L-RC
100	20	1kHz	0.35	0.80	M1037CT-ND	3.75	3.38	2.82	562.50	PM105S-101M
100	10	1kHz	0.34	0.72	M8444CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-101K-RC
120	20	1kHz	0.38	0.73	M1038CT-ND	3.00	2.70	2.25	562.50	PM105S-121M
120	10	1kHz	0.37	0.63	M8445CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-121K-RC
150	10	1kHz	0.51	0.55	M8446CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-151K-RC
180	20	1kHz	0.62	0.60	M1040CT-ND	3.75	3.38	2.82	562.50	PM105S-181M
180	10	1kHz	0.57	0.50	M8447CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-181K-RC
220	20	1kHz	0.69	0.54	M1041CT-ND	3.75	3.38	2.82	—	PM105S-221M
220	10	1kHz	0.78	0.47	M8448CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-221K-RC
270	20	1kHz	0.78	0.49	M1042CT-ND	3.00	2.70	2.25	—	PM105S-271M
270	10	1kHz	0.87	0.41	M8449CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-271K-RC
330	20	1kHz	1.03	0.44	M1043CT-ND	3.75	3.38	2.82	—	PM105S-331M
330	10	1kHz	1.20	0.37	M8450CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-331K-RC
390	20	1kHz	1.18	0.41	M1044CT-ND	3.75	3.38	2.82	562.50	PM105S-391M
470	20	1kHz	1.60	0.37	M1045CT-ND	3.75	3.38	2.82	562.50	PM105S-471M
470	10	1kHz	1.50	0.33	M8451CT-ND◊	1.47	1.33	1.11	220.50	PM105SB-471K-RC

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

J.W.Miller
MAGNETICS

Surface Mount Dual Toroid Inductors

The PM3602 and PM3604 Series are versatile surface mount coils that can provide different functions in a single package. A bifilar method is used in the winding of these coils. The user can utilize these coils in four different ways, depending on the external connection chosen:

(1) Parallel Connection:	Doubles the current capacity
(2) Series Connection:	4 times the parallel inductance
(3) Dual Inductor:	Creates two differential mode inductors
(4) 1:1 Ratio Transformer:	For isolation and some flyback applications

Features:
• Toroidal core design to minimize RFI radiation • Low loss core material • Encapsulated in case for pick and place capability • Reflow soldering • Hi-pot 500V • Operating ambient temperature: -40°C ~ 85°C

Typical Applications:
• Switching power supplies • Converters • Data communications • Processor/controller circuits • Personal computers • Filters

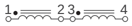

Series Mode

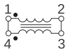

Parallel Mode

Series or parallel connections are made at the circuit level (not an internal connection of the device).

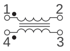

1:1 Transformer/
Dual Differential Mode

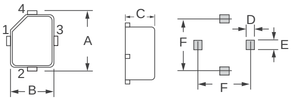

Part #	Dimensions (mm) A	B	C	D	E	F
PM3602	11.48	8.99	5.71	2.54	2.54	9.78
PM3604	13.97	11.48	6.73	4.06	2.54	12.70

Parallel L ±20% µH	Parallel I,dc Max. Amps	Parallel L ±20% @ I,dc µH	Parallel R,dc Max. Ω	Series L ±20% µH	Series I,dc Max. Amps	Series L ±20% @ I,dc µH	Series R,dc Max. Ω	Digi-Key Part No.	Price Each 1	10	25	J.W.Miller Part No.
								PM3602 Series				
5	2.41	3.8	0.023	20	1.20	15.2	0.092	M8662-ND◊	2.49	1.78	1.42	PM3602-5-B-RC
8	1.90	6.1	0.037	32	0.95	23.2	0.15	M1210-ND	2.49	1.78	1.42	PM3602-8-B
8	1.90	6.1	0.037	32	0.95	23.2	0.15	M8663-ND◊	2.49	1.78	1.42	PM3602-8-B-RC
10	1.83	7.4	0.040	40	0.92	29.6	0.16	M1211-ND	2.49	1.78	1.42	PM3602-10-B
10	1.83	7.4	0.040	40	0.92	29.6	0.16	M8664-ND◊	2.07	1.48	1.18	PM3602-10-B-RC
15	1.45	11.1	0.063	60	0.73	44.4	0.25	M1212-ND	2.49	1.78	1.42	PM3602-15-B
15	1.45	11.1	0.063	60	0.73	44.4	0.25	M8665-ND◊	2.49	1.78	1.42	PM3602-15-B-RC
20	1.25	15.2	0.086	80	0.63	60.8	0.34	M1213-ND	2.49	1.78	1.42	PM3602-20-B
20	1.25	15.2	0.086	80	0.63	60.8	0.34	M8666-ND◊	2.49	1.78	1.42	PM3602-20-B-RC
25	1.17	18.5	0.098	100	0.59	74.0	0.39	M1214-ND	2.49	1.78	1.42	PM3602-25-B
25	1.17	18.5	0.098	100	0.59	74.0	0.39	M8667-ND◊	2.49	1.78	1.42	PM3602-25-B-RC
33	0.98	24.8	0.14	132	0.49	99.2	0.56	M1215-ND	2.49	1.78	1.42	PM3602-33-B
33	0.98	24.8	0.14	132	0.49	99.2	0.56	M8668-ND◊	2.49	1.78	1.42	PM3602-33-B-RC
50	0.78	37.5	0.22	200	0.38	150.0	0.88	M1216-ND	2.49	1.78	1.42	PM3602-50-B
50	0.78	37.5	0.22	200	0.38	150.0	0.88	M8669-ND◊	2.49	1.78	1.42	PM3602-50-B-RC
68	0.72	49.6	0.26	272	0.36	198.4	1.04	M1217-ND	2.49	1.78	1.42	PM3602-68-B
68	0.72	49.6	0.26	272	0.36	198.4	1.04	M8670-ND◊	2.49	1.78	1.42	PM3602-68-B-RC
100	0.58	74.0	0.40	400	0.29	296.0	1.60	M8671-ND◊	2.72	2.04	1.81	PM3602-100-B-RC
150	0.47	111.0	0.60	600	0.24	444.0	2.40	M1219-ND	2.72	2.04	1.81	PM3602-150-B
150	0.47	111.0	0.60	600	0.24	444.0	2.40	M8672-ND◊	2.72	2.04	1.81	PM3602-150-B-RC
200	0.40	150.0	0.84	800	0.20	600.0	3.36	M8673-ND◊	2.72	2.04	1.81	PM3602-200-B-RC
250	0.33	192.5	1.19	1000	0.17	770.0	4.76	M1221-ND	2.72	2.04	1.81	PM3602-250-B
250	0.33	192.5	1.19	1000	0.17	770.0	4.76	M8674-ND◊	2.72	2.04	1.81	PM3602-250-B-RC
300	0.32	225.0	1.31	1200	0.16	900.0	5.24	M8675-ND◊	2.72	2.04	1.81	PM3602-300-B-RC
								PM3604 Series				
5	3.30	3.8	0.019	20	1.65	15.2	0.076	M8676-ND◊	2.07	1.48	1.18	PM3604-5-B-RC
8	3.00	5.8	0.024	32	1.50	23.2	0.096	M8677-ND◊	2.59	1.85	1.48	PM3604-8-B-RC
10	2.70	7.3	0.028	40	1.35	29.2	0.11	M8678-ND◊	2.59	1.85	1.48	PM3604-10-B-RC
15	2.20	11.0	0.041	60	1.10	44.0	0.16	M8679-ND◊	2.07	1.48	1.18	PM3604-15-B-RC
20	2.02	14.2	0.049	80	1.01	56.8	0.20	M1227-ND	2.59	1.85	1.48	PM3604-20-B
20	2.02	14.2	0.049	80	1.01	56.8	0.20	M8680-ND◊	2.59	1.85	1.48	PM3604-20-B-RC
25	1.91	17.0	0.054	100	0.96	68.0	0.22	M1228-ND	2.59	1.85	1.48	PM3604-25-B
25	1.91	17.0	0.054	100	0.96	68.0	0.22	M8681-ND◊	2.59	1.85	1.48	PM3604-25-B-RC
33	1.60	23.1	0.078	132	0.80	92.4	0.31	M1229-ND	2.59	1.85	1.48	PM3604-33-B
33	1.60	23.1	0.078	132	0.80	92.4	0.31	M8682-ND◊	2.59	1.85	1.48	PM3604-33-B-RC
50	1.28	35.5	0.12	200	0.64	142.0	0.48	M1230-ND	2.59	1.85	1.48	PM3604-50-B
50	1.28	35.5	0.12	200	0.64	142.0	0.48	M8683-ND◊	2.59	1.85	1.48	PM3604-50-B-RC
68	1.19	46.2	0.14	272	0.60	184.8	0.56	M1231-ND	2.59	1.85	1.48	PM3604-68-B
68	1.19	46.2	0.14	272	0.60	184.8	0.56	M8684-ND◊	2.59	1.85	1.48	PM3604-68-B-RC
100	0.98	68.0	0.21	400	0.49	272.0	0.84	M8685-ND◊	2.85	2.14	1.90	PM3604-100-B-RC
150	0.78	103.5	0.32	600	0.39	414.0	1.28	M1233-ND	2.85	2.14	1.90	PM3604-150-B
150	0.78	103.5	0.32	600	0.39	414.0	1.28	M8686-ND◊	2.85	2.14	1.90	PM3604-150-B-RC
200	0.65	140.0	0.47	800	0.33	560.0	1.88	M8687-ND◊	2.85	2.14	1.90	PM3604-200-B-RC
250	0.60	172.5	0.53	1000	0.30	690.0	2.12	M1235-ND	2.85	2.14	1.90	PM3604-250-B
250	0.60	172.5	0.53	1000	0.30	690.0	2.12	M8688-ND◊	2.85	2.14	1.90	PM3604-250-B-RC
300	0.52	213.0	0.73	1200	0.26	852.0	2.92	M1236-ND	2.85	2.14	1.90	PM3604-300-B
300	0.52	213.0	0.73	1200	0.26	852.0	2.92	M8689-ND◊	1.77	1.33	1.18	PM3604-300-B-RC

◊ ***RoHS Compliant***

High Current Toroid Inductors

5700 Series

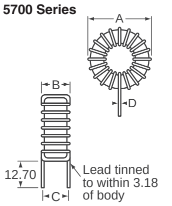

6701-6705 &
6726-6731 Series

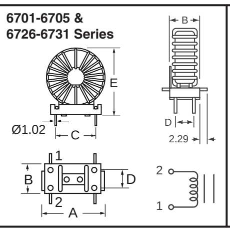

6706 - 6725 Series

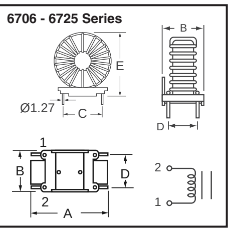

L (µH) ±15%	I,dc Max. Amps	R,dc Max. Ω	Dimensions (mm) A Max.	B Max.	C Nom.	D Nom.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
					5700 Series					
10	11.00	.008	22.23	11.10	8.13	1.63	M5701-ND	5.08	3.81	5701
10	11.00	.008	22.23	11.10	8.13	1.63	M8709-ND◊	5.08	3.81	5701-RC
25	5.50	.014	22.23	11.10	7.62	1.02	M8710-ND◊	5.08	3.81	5702-RC
125	2.75	.12	22.23	11.10	7.62	.51	M5703-ND	5.08	3.81	5703
125	2.75	.12	22.23	11.10	7.62	.51	M8711-ND◊	5.08	3.81	5703-RC
275	2.00	.24	22.23	11.10	7.62	.41	M5704-ND	5.08	3.81	5704
275	2.00	.24	22.23	11.10	7.62	.41	M8712-ND◊	5.08	3.81	5704-RC
450	1.50	.49	22.23	11.10	7.62	.30	M5705-ND	5.47	4.11	5705
450	1.50	.49	22.23	11.10	7.62	.30	M8713-ND◊	5.47	4.11	5705-RC
25	9.00	.012	28.58	14.27	11.43	1.63	M5706-ND	5.47	4.11	5706
25	9.00	.012	28.58	14.27	11.43	1.63	M8714-ND◊	5.47	4.11	5706-RC
75	5.00	.04	28.58	14.27	10.67	.91	M8715-ND◊	5.47	4.11	5707-RC
400	2.25	.33	28.58	14.27	10.67	.46	M5708-ND	5.47	4.11	5708
400	2.25	.33	28.58	14.27	10.67	.46	M8716-ND◊	5.47	4.11	5708-RC
800	1.75	.64	28.58	14.27	10.67	.38	M5709-ND	5.47	4.11	5709
1000	1.50	.98	28.58	14.27	10.16	.30	M5710-ND	5.47	4.11	5710
50	9.50	.012	31.75	15.88	13.46	1.63	M5711-ND	6.24	4.69	5711
50	9.50	.012	31.75	15.88	13.46	1.63	M8717-ND◊	6.24	4.69	5711-RC
150	4.75	.046	31.75	15.88	12.70	.91	M5712-ND	6.24	4.69	5712
150	4.75	.046	31.75	15.88	12.70	.91	M8718-ND◊	6.24	4.69	5712-RC
700	2.25	.42	31.75	15.88	12.70	.46	M5713-ND	6.24	4.69	5713
700	2.25	.42	31.75	15.88	12.70	.46	M8719-ND◊	6.24	4.69	5713-RC
1250	1.75	.85	31.75	15.88	12.19	.38	M5714-ND	6.24	4.69	5714
1600	1.50	1.27	31.75	15.88	12.19	.30	M5715-ND	6.24	4.69	5715
1600	1.50	1.27	31.75	15.88	12.19	.30	M8720-ND◊	6.24	4.69	5715-RC
125	7.75	.032	46.02	19.05	17.27	1.63	M5716-ND	7.03	6.25	5716
125	7.75	.032	46.02	19.05	17.27	1.63	M8721-ND◊	7.03	6.25	5716-RC
500	4.00	.15	46.02	19.05	16.51	.81	M5717-ND	7.03	6.25	5717
500	4.00	.15	46.02	19.05	16.51	.81	M8722-ND◊	7.03	6.25	5717-RC
1100	2.50	.33	46.02	19.05	16.51	.64	M5718-ND	7.03	6.25	5718
1100	2.50	.33	46.02	19.05	16.51	.64	M8723-ND◊	7.03	6.25	5718-RC
2250	1.75	.92	46.02	19.05	16.51	.46	M5719-ND	7.03	6.25	5719
2250	1.75	.92	46.02	19.05	16.51	.46	M8724-ND◊	7.03	6.25	5719-RC
4500	1.25	2.64	46.02	19.05	16.51	.30	M5720-ND	7.03	6.25	5720
250	8.00	.041	53.98	23.80	20.07	1.57	M5721-ND	8.20	7.29	5721
250	8.00	.041	53.98	23.80	20.07	1.57	M8725-ND◊	8.20	7.29	5721-RC
900	3.75	.175	53.98	23.80	19.05	.81	M5722-ND	8.20	7.29	5722
900	3.75	.175	53.98	23.80	19.05	.81	M8726-ND◊	8.20	7.29	5722-RC
1800	2.50	.55	53.98	23.80	19.05	.58	M5723-ND	8.20	7.29	5723
1800	2.50	.55	53.98	23.80	19.05	.58	M8727-ND◊	8.20	7.29	5723-RC
4000	1.75	1.16	53.98	23.80	18.80	.46	M5724-ND	8.78	7.81	5724
4000	1.75	1.16	53.98	23.80	18.80	.46	M8728-ND◊	8.78	7.81	5724-RC
8000	1.00	3.34	53.98	23.80	18.80	.30	M8729-ND◊	8.78	7.81	5725-RC
25	2.50	.040	13.97	5.59	5.33	.51	M5726-ND	4.70	3.53	5726
25	2.50	.040	13.97	5.59	5.33	.51	M8730-ND◊	4.70	3.53	5726-RC
35	2.50	.035	17.78	8.13	7.62	.64	M5727-ND	4.70	3.53	5727
35	2.50	.035	17.78	8.13	7.62	.64	M8731-ND◊	4.70	3.53	5727-RC
50	2.50	.060	19.05	8.13	7.11	.51	M5728-ND	4.70	3.53	5728
50	2.50	.060	19.05	8.13	7.11	.51	M8732-ND◊	4.70	3.53	5728-RC
100	2.50	.080	21.59	9.14	8.38	.51	M5729-ND	4.70	3.53	5729
100	2.50	.080	21.59	9.14	8.38	.51	M8733-ND◊	4.70	3.53	5729-RC
70	3.00	.050	21.59	9.14	8.38	.64	M5730-ND	5.04	3.78	5730
70	3.00	.050	21.59	9.14	8.38	.64	M8734-ND◊	5.04	3.78	5730-RC
40	4.00	.025	21.59	9.14	8.64	.81	M5731-ND	4.70	3.53	5731
40	4.00	.025	21.59	9.14	8.64	.81	M8735-ND◊	4.70	3.53	5731-RC

L (µH) ±15%	I,dc Max. Amps	R,dc Max. Ω	Dimensions (mm) A Max.	B Max.	C ± .38	D ± .38	E Max.	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
					6700 Series						
10	11.00	.008	22.23	10.77	15.24	6.35	25.40	M5732-ND	6.52	4.89	6701
10	11.00	.008	22.23	10.77	15.24	6.35	25.40	M8736-ND◊	6.52	4.89	6701-RC
25	5.50	.014	22.23	10.79	15.24	6.35	25.40	M8737-ND◊	6.52	4.89	6702-RC
125	2.75	.12	22.23	10.79	15.24	6.35	25.40	M5734-ND	6.52	4.89	6703
125	2.75	.12	22.23	10.79	15.24	6.35	25.40	M8738-ND◊	6.52	4.89	6703-RC
275	2.00	.24	22.23	10.79	15.24	6.35	25.40	M5735-ND	6.52	4.89	6704
275	2.00	.24	22.23	10.79	15.24	6.35	25.40	M8739-ND◊	6.52	4.89	6704-RC
450	1.50	.49	22.23	10.79	15.24	6.35	25.40	M5736-ND	6.52	4.89	6705
25	9.00	.012	28.58	15.24	20.32	10.16	31.75	M5737-ND	7.06	5.30	6706
25	9.00	.012	28.58	15.24	20.32	10.16	31.75	M8740-ND◊	7.06	5.30	6706-RC
75	5.00	.04	28.58	15.24	20.32	10.16	31.75	M5738-ND	7.06	5.30	6707
75	5.00	.04	28.58	15.24	20.32	10.16	31.75	M8741-ND◊	7.06	5.30	6707-RC
400	2.25	.33	28.58	15.24	20.32	10.16	31.75	M5739-ND	7.06	5.30	6708
1000	1.50	.98	28.58	15.24	20.32	10.16	31.75	M8742-ND◊	7.06	5.30	6710-RC
50	9.50	.012	31.75	20.32	22.86	15.24	34.93	M8743-ND◊	7.73	5.80	6711-RC
150	4.75	.046	31.75	20.32	22.86	15.24	34.93	M5743-ND	7.73	5.80	6712
150	4.75	.046	31.75	20.32	22.86	15.24	34.93	M8744-ND◊	7.73	5.80	6712-RC
700	2.25	.42	31.75	20.32	22.86	15.24	34.93	M5744-ND	7.73	5.80	6713
700	2.25	.42	31.75	20.32	22.86	15.24	34.93	M8745-ND◊	7.73	5.80	6713-RC
1250	1.75	.85	31.75	20.32	22.86	15.24	34.93	M5745-ND	7.73	5.80	6714
1600	1.50	1.27	31.75	20.32	22.86	15.24	34.93	M5746-ND	7.73	5.80	6715
125	7.75	.032	46.02	22.86	30.48	17.78	49.53	M5747-ND	6.85	6.10	6716
125	7.75	.032	46.02	22.86	30.48	17.78	49.53	M8746-ND◊	6.85	6.10	6716-RC
500	4.00	.15	46.02	22.86	30.48	17.78	49.53	M5748-ND	6.85	6.10	6717
500	4.00	.15	46.02	22.86	30.48	17.78	49.53	M8747-ND◊	6.85	6.10	6717-RC

◊ ***RoHS Compliant***

(Continued)

J.W.Miller MAGNETICS High Current Toroid Inductors *(Cont.)*

L (µH) ±15%	I,dc Max. Amps	R,dc Max. Ω	Dimensions (mm) A Max.	B Max.	C ± .38	D ± .38	E Max.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
1100	2.50	.33	46.02	22.86	30.48	17.78	49.53	M5749-ND	6.85	6.10	6718
2250	1.75	.92	46.02	22.86	30.48	17.78	49.53	M5750-ND	6.85	6.10	6719
4500	1.25	2.64	46.02	22.86	30.48	17.78	49.53	M5751-ND	8.06	7.17	6720
250	8.00	.041	53.98	27.94	38.10	22.86	57.15	M5752-ND	8.06	7.17	6721
250	8.00	.041	53.98	27.94	38.10	22.86	57.15	M8748-ND◊	8.06	7.17	6721-RC
900	3.75	.175	53.98	27.94	38.10	22.86	57.15	M5753-ND	9.32	8.29	6722
900	3.75	.175	53.98	27.94	38.10	22.86	57.15	M8749-ND◊	9.32	8.29	6722-RC
1800	2.50	.55	53.98	27.94	38.10	22.86	57.15	M5754-ND	9.32	8.29	6723
4000	1.75	1.16	53.98	27.94	38.10	22.86	57.15	M5755-ND	9.32	8.29	6724
8000	1.00	3.34	53.98	27.94	38.10	22.86	57.15	M5756-ND	9.32	8.29	6725
8000	1.00	3.34	53.98	27.94	38.10	22.86	57.15	M8750-ND◊	9.32	8.29	6725-RC
25	2.50	.040	13.97	10.79	15.24	6.35	25.40	M5757-ND	7.12	5.35	6726
35	2.50	.035	17.78	10.79	15.24	6.35	25.40	M5758-ND	7.12	5.35	6727
50	2.50	.060	19.05	10.79	15.24	6.35	25.40	M5759-ND	7.12	5.35	6728
100	2.50	.080	21.59	10.79	15.24	6.35	25.40	M8751-ND◊	7.12	5.35	6729-RC
70	3.00	.050	21.59	10.79	15.24	6.35	25.40	M5761-ND	7.12	5.35	6730
70	3.00	.050	21.59	10.79	15.24	6.35	25.40	M8752-ND◊	7.12	5.35	6730-RC
40	4.00	.025	21.59	10.79	15.24	6.35	25.40	M5762-ND	7.12	5.35	6731
40	4.00	.025	21.59	10.79	15.24	6.35	25.40	M8753-ND◊	7.12	5.35	6731-RC

◊ ***RoHS Compliant***

High Current Toroid Inductor

2100, 2200 and 2300 Series (Std., HT and LL)

2100, 2200, and 2300 Series: Features: • High current • Low radiation • 12.70 mm lead length tinned to within 1.59 mm of body **Typical Applications:** • DC-DC converters • EMI filters

2100LL and 2200LL Series: Features: • Low core loss • Low magnetic radiation • High current capacity • Horizontal mount • Operating Temperature: -55°C ~ 125°C **Typical Applications:** • Switch mode power supplies • DC-DC converters • Output chokes • EMI filters **Notes:** • Rated Idc causes a 30°C temperature rise

2200HT Series: Features: • High temperature rating, up to 200°C • Low magnetic radiation • High current capacity • Horizontal or vertical mount available • Low cost • Operating Temperature: -55°C ~ 200°C • 12.70 mm lead length tinned to within 1.59 mm of body

Fig. 1

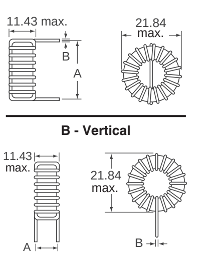

Fig. 2

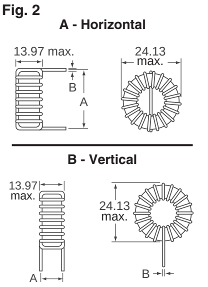

Fig. 3

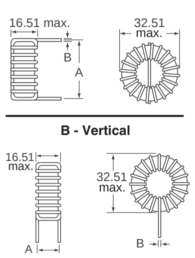

Fig.	L (µH) ±15% @ 1KHz	Idc (A)	L (µH) ±15% @ I Rated	DCR Max. Ω	Dim. (mm) A Max.	Dim. (mm) B Min.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
						2100 Series				
1A	10	10.8	6.3	0.006	19.56	1.35	M8802-ND◊	2.13	1.52	2101-H-RC
	15	7.7	10.2	0.012	19.30	1.07	M9766-ND	2.13	1.52	2103-H
	15	7.7	10.2	0.012	19.30	1.07	M8803-ND◊	2.13	1.52	2103-H-RC
	22	7.0	14.2	0.015	19.30	1.07	M9768-ND	2.13	1.52	2105-H
	22	7.0	14.2	0.015	19.30	1.07	M8804-ND◊	2.13	1.52	2105-H-RC
	33	5.0	22.8	0.029	19.05	0.86	M8805-ND◊	2.13	1.52	2107-H-RC
	47	3.6	34.7	0.055	19.05	0.69	M9772-ND	2.13	1.52	2109-H
	47	3.6	34.7	0.055	19.05	0.69	M8806-ND◊	2.13	1.52	2109-H-RC
	56	3.4	40.6	0.060	19.05	0.69	M8807-ND◊	2.13	1.52	2110-H-RC
	68	3.3	48.3	0.067	19.05	0.69	M9774-ND	2.13	1.52	2111-H
	68	3.3	48.3	0.067	19.05	0.69	M8808-ND◊	2.13	1.52	2111-H-RC
	100	2.4	75.2	0.13	18.80	0.56	M8809-ND◊	2.13	1.52	2112-H-RC
	120	2.2	88.5	0.15	18.80	0.56	M9776-ND	2.13	1.52	2113-H
	120	2.2	88.5	0.15	18.80	0.56	M8810-ND◊	2.13	1.52	2113-H-RC
	150	3.4	84.3	0.062	20.07	0.86	M8811-ND◊	2.13	1.52	2114-H-RC
	180	2.6	113.1	0.11	19.56	0.69	M8812-ND◊	2.13	1.52	2115-H-RC
	220	2.4	134.4	0.12	19.56	0.69	M9779-ND	2.13	1.52	2116-H
	220	2.4	134.4	0.12	19.56	0.69	M8813-ND◊	2.13	1.52	2116-H-RC
	270	1.8	181.6	0.21	19.30	0.56	M9780-ND	2.99	2.14	2117-H
	270	1.8	181.6	0.21	19.30	0.56	M8814-ND◊	2.41	1.72	2117-H-RC
	330	1.7	216.3	0.23	19.30	0.56	M8815-ND◊	2.41	1.72	2118-H-RC
	470	1.6	293.8	0.28	19.30	0.56	M8816-ND◊	2.41	1.72	2120-H-RC
	560	1.5	341.5	0.30	20.07	0.56	M9784-ND	2.41	1.72	2121-H
	560	1.5	341.5	0.30	20.07	0.56	M8817-ND◊	2.41	1.72	2121-H-RC
	1000	1.3	559.2	0.40	20.57	0.56	M8818-ND◊	2.41	1.72	2124-H-RC
1B	10	10.8	6.3	0.006	8.64	1.35	M9857-ND	2.13	1.52	2101-V
	10	10.8	6.3	0.006	8.64	1.35	M8848-ND◊	2.13	1.52	2101-V-RC
	18	7.4	11.9	0.013	8.38	1.07	M9860-ND	2.13	1.52	2104-V
	18	7.4	11.9	0.013	8.38	1.07	M8849-ND◊	2.13	1.52	2104-V-RC
	22	7.0	14.2	0.015	8.38	1.07	M8850-ND◊	2.13	1.52	2105-V-RC
	27	5.3	19.1	0.026	8.13	0.86	M9862-ND	2.13	1.52	2106-V
	27	5.3	19.1	0.026	8.13	0.86	M8851-ND◊	2.13	1.52	2106-V-RC
	33	5.0	22.8	0.029	8.13	0.86	M8852-ND◊	2.13	1.52	2107-V-RC
	39	4.8	26.4	0.032	8.13	0.86	M8853-ND◊	2.13	1.52	2108-V-RC
	47	3.6	34.7	0.055	7.87	0.69	M8854-ND◊	2.13	1.52	2109-V-RC
1B	56	3.4	40.6	0.060	7.87	0.69	M8855-ND◊	2.13	1.52	2110-V-RC
	100	2.4	75.2	0.13	7.87	0.56	M8856-ND◊	2.13	1.52	2112-V-RC
	150	3.4	84.3	0.062	8.89	0.86	M9870-ND	2.13	1.52	2114-V
	150	3.4	84.3	0.062	8.89	0.86	M8857-ND◊	2.13	1.52	2114-V-RC
	180	2.6	113.1	0.11	8.64	0.69	M9871-ND	2.13	1.52	2115-V
	180	2.6	113.1	0.11	8.64	0.69	M8858-ND◊	2.13	1.52	2115-V-RC
	220	2.4	134.4	0.12	8.64	0.69	M9872-ND	2.13	1.52	2116-V
	220	2.4	134.4	0.12	8.64	0.69	M8859-ND◊	2.13	1.52	2116-V-RC
	330	1.7	216.3	0.23	8.38	0.56	M8860-ND◊	2.41	1.72	2118-V-RC
	390	1.7	250.1	0.25	8.38	0.56	M9875-ND	2.41	1.72	2119-V
	390	1.7	250.1	0.25	8.38	0.56	M8861-ND◊	2.41	1.72	2119-V-RC
	470	1.6	293.8	0.28	8.89	0.56	M8862-ND◊	2.41	1.72	2120-V-RC
	1000	1.3	559.2	0.40	9.40	0.56	M8863-ND◊	2.41	1.72	2124-V-RC
						2200 Series				
2A	22	10.3	13.4	0.010	22.35	1.35	M8819-ND◊	2.69	1.92	2205-H-RC
	27	9.8	16.0	0.011	22.35	1.35	M8820-ND◊	2.69	1.92	2206-H-RC
	33	7.4	21.6	0.020	22.10	1.07	M9794-ND	2.69	1.92	2207-H
	33	7.4	21.6	0.020	22.10	1.07	M8821-ND◊	2.69	1.92	2207-H-RC
	47	6.7	29.3	0.024	22.10	1.07	M8822-ND◊	2.69	1.92	2209-H-RC
	56	6.4	34.1	0.026	22.10	1.07	M8823-ND◊	2.69	1.92	2210-H-RC
	68	4.9	45.7	0.046	21.84	0.86	M9798-ND	2.69	1.92	2211-H
	68	4.9	45.7	0.046	21.84	0.86	M8824-ND◊	2.69	1.92	2211-H-RC
	100	4.4	64.0	0.056	21.84	0.86	M8825-ND◊	2.69	1.92	2212-H-RC
	150	3.1	102.7	0.11	21.84	0.69	M9801-ND	2.69	1.92	2214-H
	150	3.1	102.7	0.11	21.84	0.69	M8826-ND◊	2.69	1.92	2214-H-RC
	270	3.4	149.4	0.092	22.86	0.86	M9804-ND	2.97	2.12	2217-H
	270	3.4	149.4	0.092	22.86	0.86	M8827-ND◊	2.97	2.12	2217-H-RC
	330	3.3	176.8	0.10	22.86	0.86	M8828-ND◊	2.97	2.12	2218-H-RC
	470	2.3	275.9	0.19	22.35	0.69	M8829-ND◊	2.97	2.12	2220-H-RC
	1000	1.9	521.3	0.28	23.11	0.69	M8830-ND◊	2.97	2.12	2224-H-RC
2B	10	12.5	6.7	0.007	11.68	1.35	M9881-ND	2.69	1.92	2201-V
	10	12.5	6.7	0.007	11.68	1.35	M8864-ND◊	2.69	1.92	2201-V-RC
	12	12.0	7.9	0.008	11.68	1.35	M9882-ND	2.69	1.92	2202-V
	12	12.0	7.9	0.008	11.68	1.35	M8865-ND◊	2.69	1.92	2202-V-RC
	15	11.3	9.6	0.008	11.68	1.35	M9883-ND	2.69	1.92	2203-V
	15	11.3	9.6	0.008	11.68	1.35	M8866-ND◊	2.69	1.92	2203-V-RC
	18	10.8	11.3	0.009	11.68	1.35	M9884-ND	2.69	1.92	2204-V
	18	10.8	11.3	0.009	11.68	1.35	M8867-ND◊	2.69	1.92	2204-V-RC
	22	10.3	13.4	0.010	11.68	1.35	M8868-ND◊	2.69	1.92	2205-V-RC
	27	9.8	16.0	0.011	11.68	1.35	M8869-ND◊	2.69	1.92	2206-V-RC
	33	7.4	21.6	0.020	11.43	1.07	M9887-ND	2.69	1.92	2207-V
	33	7.4	21.6	0.020	11.43	1.07	M8870-ND◊	2.69	1.92	2207-V-RC
	47	6.7	29.3	0.024	11.43	1.07	M9889-ND	2.69	1.92	2209-V
	47	6.7	29.3	0.024	11.43	1.07	M8871-ND◊	2.69	1.92	2209-V-RC
	56	6.4	34.1	0.026	11.43	1.07	M8872-ND◊	2.69	1.92	2210-V-RC
	100	4.4	64.0	0.056	11.18	0.86	M8873-ND◊	2.69	1.92	2212-V-RC
	120	3.3	84.4	0.098	11.18	0.69	M9893-ND	2.69	1.92	2213-V
	120	3.3	84.4	0.098	11.18	0.69	M8874-ND◊	2.69	1.92	2213-V-RC
	220	3.6	125.6	0.083	12.19	0.86	M8875-ND◊	2.69	1.92	2216-V-RC
	330	3.3	176.8	0.10	12.19	0.86	M9898-ND	2.97	2.12	2218-V
	330	3.3	176.8	0.10	12.19	0.86	M8876-ND◊	2.97	2.12	2218-V-RC
	470	2.3	275.9	0.19	11.68	0.69	M9900-ND	2.97	2.12	2220-V
	470	2.3	275.9	0.19	11.68	0.69	M8877-ND◊	2.97	2.12	2220-V-RC
	1000	1.9	521.3	0.28	12.45	0.69	M9904-ND	2.97	2.12	2224-V
	1000	1.9	521.3	0.28	12.45	0.69	M8878-ND◊	2.97	2.12	2224-V-RC
						2300 Series				
3A	10	20.0	6.7	0.005	29.97	1.68	M8831-ND◊	2.78	2.09	2301-H-RC
	15	18.0	9.5	0.006	29.97	1.68	M9814-ND	2.78	2.09	2303-H
	15	18.0	9.5	0.006	29.97	1.68	M8832-ND◊	2.78	2.09	2303-H-RC
	22	16.4	13.2	0.007	29.97	1.68	M9816-ND	2.78	2.09	2305-H
	22	16.4	13.2	0.007	29.97	1.68	M8833-ND◊	2.78	2.09	2305-H-RC
	27	15.6	15.7	0.008	29.97	1.68	M8834-ND◊	2.78	2.09	2306-H-RC
	47	10.7	29.0	0.016	28.96	1.35	M8835-ND◊	2.78	2.09	2309-H-RC
	56	10.2	33.7	0.017	28.96	1.35	M9821-ND	2.78	2.09	2310-H
	56	10.2	33.7	0.017	28.96	1.35	M8836-ND◊	2.78	2.09	2310-H-RC
	68	7.7	45.2	0.030	28.70	1.07	M9822-ND	2.78	2.09	2311-H
	68	7.7	45.2	0.030	28.70	1.07	M8837-ND◊	2.78	2.09	2311-H-RC
	100	7.0	63.1	0.037	28.70	1.07	M8838-ND◊	2.78	2.09	2312-H-RC
	120	6.7	73.9	0.040	28.70	1.07	M8839-ND◊	2.78	2.09	2313-H-RC
	180	4.8	118.9	0.078	28.45	0.86	M9826-ND	2.78	2.09	2315-H
	180	4.8	118.9	0.078	28.45	0.86	M8840-ND◊	2.78	2.09	2315-H-RC
	220	5.8	123.8	0.054	29.72	1.07	M8841-ND◊	3.03	2.28	2316-H-RC
	330	5.2	174.1	0.067	29.72	1.07	M9829-ND	2.78	2.09	2318-H
	330	5.2	174.1	0.067	29.72	1.07	M8842-ND◊	3.03	2.28	2318-H-RC
	390	5.0	200.2	0.072	29.72	1.07	M9830-ND	2.78	2.09	2319-H
	390	5.0	200.2	0.072	29.72	1.07	M8843-ND◊	3.03	2.28	2319-H-RC
	470	3.8	271.4	0.13	29.46	0.86	M8844-ND◊	3.03	2.28	2320-H-RC
	560	3.6	314.8	0.14	29.46	0.86	M8845-ND◊	3.03	2.28	2321-H-RC
	680	3.4	370.7	0.15	29.46	0.86	M8846-ND◊	3.03	2.28	2322-H-RC
	1000	2.4	593.6	0.30	28.96	0.69	M8847-ND◊	3.03	2.28	2324-H-RC
3B	10	20.0	6.7	0.005	14.22	1.68	M9905-ND	2.78	2.09	2301-V
	10	20.0	6.7	0.005	14.22	1.68	M8879-ND◊	2.78	2.09	2301-V-RC
	12	19.1	7.8	0.005	14.22	1.68	M9906-ND	2.78	2.09	2302-V
	12	19.1	7.8	0.005	14.22	1.68	M8880-ND◊	2.78	2.09	2302-V-RC
	22	16.4	13.2	0.007	14.22	1.68	M8881-ND◊	2.78	2.09	2305-V-RC
	27	15.6	15.7	0.008	14.22	1.68	M8882-ND◊	2.78	2.09	2306-V-RC
	33	11.7	21.3	0.013	13.46	1.35	M9911-ND	2.78	2.09	2307-V
	33	11.7	21.3	0.013	13.46	1.35	M8883-ND◊	2.78	2.09	2307-V-RC
	39	11.2	24.7	0.014	13.46	1.35	M9912-ND	2.78	2.09	2308-V

◊ ***RoHS Compliant***

(Continued)

J.W.Miller MAGNETICS

High Current Toroid Inductor *(Cont.)*

Fig.	L (µH) ±15% @ 1KHz	Idc (A)	L (µH) ±15% @ I Rated	DCR Max. Ω	Dim. (mm) A Max.	Dim. (mm) B Min.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
3B	39	11.2	24.7	0.014	13.46	1.35	M8884-ND◊	2.78	2.09	2308-V-RC
	47	10.7	29.0	0.016	13.46	1.35	M8885-ND◊	2.78	2.09	2309-V-RC
	56	10.2	33.7	0.017	13.46	1.35	M8886-ND◊	2.78	2.09	2310-V-RC
	68	7.7	45.2	0.030	13.21	1.07	M8887-ND◊	2.78	2.09	2311-V-RC
	100	7.0	63.1	0.037	13.21	1.07	M8888-ND◊	2.78	2.09	2312-V-RC
	120	6.7	73.9	0.040	13.21	1.07	M9917-ND	2.78	2.09	2313-V
	120	6.7	73.9	0.040	13.21	1.07	M8889-ND◊	2.78	2.09	2313-V-RC
	150	5.0	101.4	0.071	12.95	0.86	M9918-ND	2.78	2.09	2314-V
	150	5.0	101.4	0.071	12.95	0.86	M8890-ND◊	2.78	2.09	2314-V-RC
	270	5.5	147.2	0.060	14.22	1.07	M9921-ND	2.78	2.09	2317-V
	270	5.5	147.2	0.060	14.22	1.07	M8891-ND◊	3.03	2.28	2317-V-RC
	330	5.2	174.1	0.067	14.22	1.07	M9922-ND	2.78	2.09	2318-V
	330	5.2	174.1	0.067	14.22	1.07	M8892-ND◊	3.03	2.28	2318-V-RC
	390	5.0	200.2	0.072	14.22	1.07	M9923-ND	2.78	2.09	2319-V
	390	5.0	200.2	0.072	14.22	1.07	M8893-ND◊	3.03	2.28	2319-V-RC
	470	3.8	271.4	0.13	13.72	0.86	M9924-ND	2.78	2.09	2320-V
	470	3.8	271.4	0.13	13.72	0.86	M8894-ND◊	3.03	2.28	2320-V-RC
	1000	2.4	593.6	0.30	13.46	0.69	M9928-ND	2.78	2.09	2324-V
	1000	2.4	593.6	0.30	13.46	0.69	M8895-ND◊	3.03	2.28	2324-V-RC
Low Loss – RoHS Compliant										
2100LL Series										
1A	10	11.4	5.2	0.005	20.32	1.35	M1400-ND	3.50	2.63	2100LL-100H-RC
	12	10.9	6.1	0.006	20.32	1.35	M1401-ND	3.50	2.63	2100LL-120H-RC
	15	10.5	7.3	0.006	20.32	1.35	M1402-ND	3.50	2.63	2100LL-150H-RC
	18	10.1	8.5	0.007	20.32	1.35	M1403-ND	3.50	2.63	2100LL-180H-RC
	22	7.5	11.8	0.012	19.81	1.07	M1404-ND	3.50	2.63	2100LL-220H-RC
	27	7.3	14.2	0.012	19.81	1.07	M1405-ND	3.50	2.63	2100LL-270H-RC
	33	6.9	16.6	0.014	19.81	1.07	M1406-ND	3.50	2.63	2100LL-330H-RC
	39	6.6	18.8	0.015	19.81	1.07	M1407-ND	3.50	2.63	2100LL-390H-RC
	47	5.2	25.3	0.024	19.30	0.86	M1408-ND	3.50	2.63	2100LL-470H-RC
	56	5.0	29.3	0.026	19.30	0.86	M1409-ND	3.50	2.63	2100LL-560H-RC
	68	4.7	34.0	0.030	19.30	0.86	M1410-ND	3.50	2.63	2100LL-680H-RC
	82	4.6	39.9	0.032	19.30	0.86	M1411-ND	3.50	2.63	2100LL-820H-RC
	100	4.3	46.2	0.036	19.30	0.86	M1412-ND	3.50	2.63	2100LL-101H-RC
	120	4.1	53.5	0.039	19.30	0.86	M1413-ND	3.50	2.63	2100LL-121H-RC
	150	3.9	63.8	0.043	19.30	0.86	M1414-ND	3.50	2.63	2100LL-151H-RC
	180	3.7	73.3	0.048	19.30	0.86	M1415-ND	3.50	2.63	2100LL-181H-RC
	220	3.5	85.1	0.053	19.30	0.86	M1416-ND	3.50	2.63	2100LL-221H-RC
	270	2.7	124.2	0.093	18.80	0.69	M1417-ND	3.50	2.63	2100LL-271H-RC
	330	2.5	145.1	0.103	18.80	0.69	M1418-ND	3.50	2.63	2100LL-331H-RC
	390	2.4	165.4	0.112	18.80	0.69	M1419-ND	3.50	2.63	2100LL-391H-RC
	470	2.3	190.1	0.124	19.30	0.69	M1420-ND	3.50	2.63	2100LL-471H-RC
2200LL Series										
2A	10	14.3	6.0	0.006	26.67	1.35	M1421-ND	4.75	3.57	2200LL-100H-RC
	12	14.2	6.9	0.006	26.67	1.35	M1422-ND	4.75	3.57	2200LL-120H-RC
	15	13.6	8.3	0.007	26.67	1.35	M1423-ND	4.75	3.57	2200LL-150H-RC
	18	13.1	9.7	0.007	26.67	1.35	M1424-ND	4.75	3.57	2200LL-180H-RC
	22	12.6	11.5	0.008	26.67	1.35	M1425-ND	4.75	3.57	2200LL-220H-RC
	27	11.8	13.5	0.009	26.67	1.35	M1426-ND	4.75	3.57	2200LL-270H-RC
	33	11.1	15.7	0.010	26.67	1.35	M1427-ND	4.75	3.57	2200LL-330H-RC
	39	10.8	18.1	0.011	26.67	1.35	M1428-ND	4.75	3.57	2200LL-390H-RC
	47	10.3	20.9	0.012	26.67	1.35	M1429-ND	4.75	3.57	2200LL-470H-RC
	56	9.8	23.9	0.013	26.67	1.35	M1430-ND	4.75	3.57	2200LL-560H-RC
	68	7.6	33.9	0.022	26.16	1.07	M1431-ND	4.75	3.57	2200LL-680H-RC
	82	7.1	39.0	0.024	26.16	1.07	M1432-ND	4.75	3.57	2200LL-820H-RC
	100	6.8	45.6	0.027	26.16	1.07	M1433-ND	4.75	3.57	2200LL-101H-RC
	120	5.1	63.4	0.047	25.65	0.86	M1434-ND	4.75	3.57	2200LL-121H-RC
	150	4.9	76.0	0.052	25.65	0.86	M1435-ND	4.75	3.57	2200LL-151H-RC
	180	4.7	88.5	0.057	25.65	0.86	M1436-ND	4.75	3.57	2200LL-181H-RC
	220	4.4	103.1	0.063	25.65	0.86	M1437-ND	4.75	3.57	2200LL-221H-RC
	270	4.0	141.9	0.077	25.65	0.69	M1439-ND	4.75	3.57	2200LL-331H-RC
	390	3.8	161.2	0.084	25.65	0.69	M1440-ND	4.75	3.57	2200LL-391H-RC
	470	3.7	185.7	0.092	25.65	0.69	M1441-ND	4.75	3.57	2200LL-471H-RC
High Temperature										
2100HT Series										
1A	10	9.9	7.6	0.012	19.30	1.07	M1285-ND	2.56	1.83	2100HT-100-H
	10	9.9	7.6	0.012	19.30	1.07	M8917-ND◊	2.56	1.83	2100HT-100-H-RC
	15	9.1	11.0	0.014	19.30	1.07	M8918-ND◊	2.56	1.83	2100HT-150-H-RC
	33	6.1	24.0	0.031	20.07	0.86	M8919-ND◊	2.63	1.88	2100HT-330-H-RC
	47	5.6	33.1	0.036	20.07	0.86	M1289-ND	2.66	1.90	2100HT-470-H
	47	5.6	33.1	0.036	20.07	0.86	M8920-ND◊	2.63	1.88	2100HT-470-H-RC
	100	4.6	64.5	0.053	20.07	0.86	M8921-ND◊	2.73	1.95	2100HT-101-H-RC
1B	47	5.6	33.1	0.036	8.89	0.86	M1296-ND	2.66	1.90	2100HT-470-V
	47	5.6	33.1	0.036	8.89	0.86	M8922-ND◊	2.63	1.88	2100HT-470-V-RC
2200HT Series										
2A	12	10.9	9.4	0.015	22.35	1.35	M1299-ND	3.05	2.18	2200HT-120-H
	12	10.9	9.4	0.015	22.35	1.35	M8923-ND◊	3.05	2.18	2200HT-120-H-RC
	39	8.1	27.4	0.026	22.10	1.07	M8924-ND◊	2.73	2.05	2200HT-390-H-RC
	56	6.1	40.9	0.046	21.84	0.86	M1303-ND	2.79	2.10	2200HT-560-H
	100	5.3	68.9	0.061	22.86	0.86	M8925-ND◊	2.82	2.12	2200HT-101-H-RC
	180	4.6	115.6	0.082	22.86	0.86	M1306-ND	2.88	2.16	2200HT-181-H
	180	4.6	115.6	0.082	22.86	0.86	M8926-ND◊	2.88	2.16	2200HT-181-H-RC
2B	22	9.3	16.3	0.020	11.43	1.07	M1310-ND	3.12	2.23	2200HT-220-V
	100	5.3	68.9	0.061	12.19	0.86	M1311-ND	2.82	2.12	2200HT-101-V
2300HT Series										
3A	10	23.3	7.2	0.006	29.97	1.68	M8927-ND◊	3.96	2.97	2300HT-100-H-RC
	33	13.6	23.0	0.015	28.96	1.35	M1316-ND	4.23	3.18	2300HT-330-H
	33	13.6	23.0	0.015	28.96	1.35	M8928-ND◊	4.23	3.18	2300HT-330-H-RC
	47	10.0	34.7	0.028	28.70	1.07	M1317-ND	4.26	3.20	2300HT-470-H
	47	10.0	34.7	0.028	28.70	1.07	M8929-ND◊	4.26	3.20	2300HT-470-H-RC
	150	7.5	97.9	0.050	29.72	1.07	M8930-ND◊	4.32	3.24	2300HT-151-H-RC
3A	220	6.8	136.6	0.061	29.72	1.07	M1321-ND	4.35	3.27	2300HT-221-H
	220	6.8	136.6	0.061	29.72	1.07	M8931-ND◊	4.35	3.27	2300HT-221-H-RC
	330	4.9	218.3	0.10	29.46	0.94	M8932-ND◊	4.41	3.31	2300HT-331-H-RC
	470	4.5	297.9	0.14	29.46	0.94	M1323-ND	4.44	3.33	2300HT-471-H
	470	4.5	297.9	0.14	29.46	0.94	M8933-ND◊	4.44	3.33	2300HT-471-H-RC
3B	10	23.3	7.2	0.006	14.22	1.68	M1325-ND	3.96	2.97	2300HT-100-V
	10	23.3	7.2	0.006	14.22	1.68	M8934-ND◊	3.96	2.97	2300HT-100-V-RC
	22	19.0	14.5	0.008	14.22	1.68	M1326-ND	4.20	3.15	2300HT-220-V
	22	19.0	14.5	0.008	14.22	1.68	M8935-ND◊	4.20	3.15	2300HT-220-V-RC
	47	10.0	34.7	0.028	13.21	1.07	M8936-ND◊	4.26	3.20	2300HT-470-V-RC

◊ RoHS Compliant

Common Mode Choke with Header

8100 Series

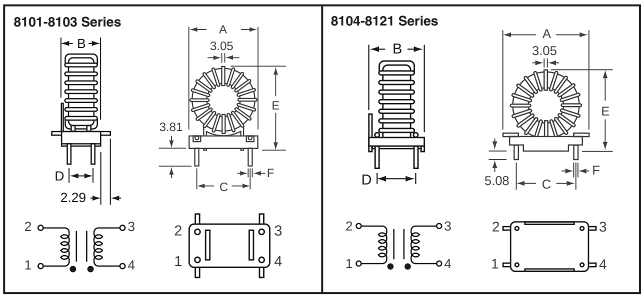

L (mH) Min. @ 1KHz	I Max. (A)	R,dc Max. (Ω)	Dimensions (mm) A Max.	B ±0.01	C ±0.015	D ±0.015	E Max.	F Max.	Digi-Key Part No.	Price Each 1	Price Each 10	J.W. Miller Part No.
4	1.7	0.173	19.30	10.79	15.24	6.35	22.86	1.02	M9836-ND	3.57	2.68	8101
4	1.7	0.173	19.30	10.79	15.24	6.35	22.86	1.02	M8896-ND◊	3.57	2.68	8101-RC
2.5	2.4	0.09	19.30	10.79	15.24	6.35	22.86	1.02	M9837-ND	5.70	4.28	8102
2.5	2.4	0.09	19.30	10.79	15.24	6.35	22.86	1.02	M8897-ND◊	3.57	2.68	8102-RC
1	4.8	0.022	19.30	10.79	15.24	6.35	22.86	1.02	M8898-ND◊	5.70	4.28	8103-RC
10	2.4	0.17	30.48	15.24	20.32	10.16	30.48	1.27	M9839-ND	5.61	4.21	8104
10	2.4	0.17	30.48	15.24	20.32	10.16	30.48	1.27	M8899-ND◊	5.61	4.21	8104-RC
7	2.8	0.12	30.48	15.24	20.32	10.16	30.48	1.27	M9840-ND	5.61	4.21	8105
7	2.8	0.12	30.48	15.24	20.32	10.16	30.48	1.27	M8900-ND◊	5.61	4.21	8105-RC
5	3.7	0.07	30.48	15.24	20.32	10.16	30.48	1.27	M8901-ND◊	5.61	4.21	8106-RC
2	6.6	0.022	30.48	15.24	20.32	10.16	30.48	1.27	M8902-ND◊	5.61	4.21	8107-RC
1	10	0.01	30.48	15.24	20.32	10.16	30.48	1.27	M8903-ND◊	5.61	4.21	8108-RC
30	2.3	0.33	34.29	20.32	22.86	15.24	36.83	1.27	M8904-ND◊	8.43	6.33	8109-RC
20	2.9	0.21	34.29	20.32	22.86	15.24	36.83	1.27	M8905-ND◊	8.43	6.33	8110-RC
12	4	0.11	34.29	20.32	22.86	15.24	36.83	1.27	M9846-ND	8.43	6.33	8111
12	4	0.11	34.29	20.32	22.86	15.24	36.83	1.27	M8906-ND◊	8.43	6.33	8111-RC
8	5.6	0.055	34.29	20.32	22.86	15.24	36.83	1.27	M9847-ND	8.43	6.33	8112
8	5.6	0.055	34.29	20.32	22.86	15.24	36.83	1.27	M8907-ND◊	8.43	6.33	8112-RC
5	8.9	0.022	36.83	20.32	22.86	15.24	38.10	1.09	M9848-ND	8.43	6.33	8113
5	8.9	0.022	36.83	20.32	22.86	15.24	38.10	1.09	M8908-ND◊	8.43	6.33	8113-RC
2.5	12.5	0.011	36.83	20.32	22.86	15.24	38.10	1.35	M9849-ND	8.43	6.33	8114
2.5	12.5	0.011	36.83	20.32	22.86	15.24	38.10	1.35	M8909-ND◊	8.43	6.33	8114-RC
1.2	16	0.006	38.10	20.32	22.86	15.24	38.86	1.52	M8910-ND◊	8.43	6.33	8115-RC
50	2.3	0.45	39.37	20.32	22.86	15.24	41.91	1.27	M8911-ND◊	8.42	7.48	8116-RC
36	2.9	0.3	39.37	20.32	22.86	15.24	41.91	1.27	M9852-ND	8.42	7.48	8117
36	2.9	0.3	39.37	20.32	22.86	15.24	41.91	1.27	M8912-ND◊	8.42	7.48	8117-RC
7.3	9.3	0.032	41.91	20.32	22.86	15.24	41.91	1.09	M8913-ND◊	8.42	7.48	8118-RC
4	14.5	0.012	43.18	22.86	30.48	17.78	41.91	1.52	M9854-ND	8.42	7.48	8119
4	14.5	0.012	43.18	22.86	30.48	17.78	41.91	1.52	M8914-ND◊	8.42	7.48	8119-RC
2.4	17	0.008	43.18	22.86	30.48	17.78	41.91	1.70	M9855-ND	8.42	7.48	8120
2.4	17	0.008	43.18	22.86	30.48	17.78	41.91	1.70	M8915-ND◊	8.42	7.48	8120-RC
1	20	0.007	43.18	22.86	30.48	17.78	41.91	1.70	M8916-ND◊	8.42	7.48	8121-RC

◊ RoHS Compliant

SMT Common Mode Chokes

3700 Series

RoHS COMPLIANT

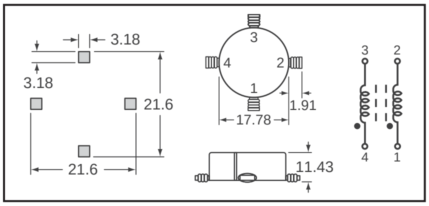

L (mH)	DCR (Ω) Max.	I* (A)	Freq. Range with 20dB Atten. (Typ.)	Digi-Key Part No.	Price Each 1	Price Each 10	Tape & Reel Pricing‡ 200	JW Miller Part No.
0.2	0.008	7.0	5-55 MHz	M8937CT-ND	2.85	2.14	266.00	PM3700-10-RC
0.75	0.012	5.5	1-20 MHz	M8938CT-ND	2.85	2.14	266.00	PM3700-30-RC
2.0	0.03	3.5	300 KHz-20 MHz	M3939CT-ND	2.96	2.22	275.80	PM3700-50-RC
20	0.25	1.0	25 KHz-4 MHz	M3940CT-ND	3.15	2.37	294.00	PM3700-80-RC

* Current to cause 35°C maximum temperature rise. ‡ For Tape and Reel part number, change CT-ND to TR-ND.

J.W.Miller
MAGNETICS

High Current RF Chokes

1110, 1120, 1130 and 1140 Series

1110 Series

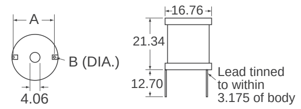

1120 Series

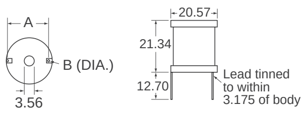

1130 Series

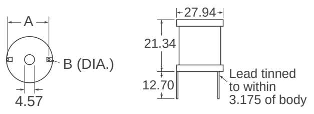

1140 Series

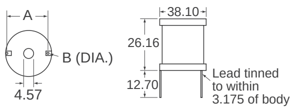

L (uH) ±20% @ 1KHz	DCR (Ω) Max.	I,dc (A)	Dimension (mm)		Digi-Key Part No.	Price Each			J.W. Miller Part No.
			A Approx.	B Nom.		1	10	25	
RF Chokes 1110 Series 10%									
10.00	0.01	9.00	13.97	1.27	M6220-ND	3.75	2.82	2.50	1110-100K
10.00	0.01	9.00	13.97	1.27	M8338-ND◊	2.65	1.99	1.77	1110-100K-RC
12.00	0.01	9.00	13.97	1.27	M8339-ND◊	2.65	1.99	1.77	1110-120K-RC
15.00	0.02	7.20	13.46	1.27	M6222-ND	3.75	2.82	2.50	1110-150K
15.00	0.02	7.20	13.46	1.27	M8340-ND◊	2.65	1.99	1.77	1110-150K-RC
22.00	0.02	5.50	13.46	1.27	M8341-ND◊	2.65	1.99	1.77	1110-220K-RC
47.00	0.06	2.80	13.46	1.02	M8342-ND◊	2.65	1.99	1.77	1110-470K-RC
68.00	0.08	2.80	12.70	0.76	M6230-ND	3.75	2.82	2.50	1110-680K
100.00	0.10	2.80	12.70	0.76	M8343-ND◊	2.65	1.99	1.77	1110-101K-RC
150.00	0.18	1.60	12.70	0.76	M6234-ND	3.75	2.82	2.50	1110-151K
150.00	0.18	1.60	12.70	0.76	M8344-ND◊	2.65	1.99	1.77	1110-151K-RC
220.00	0.24	1.60	12.70	0.76	M8345-ND◊	2.65	1.99	1.77	1110-221K-RC
330.00	0.34	1.30	11.94	0.51	M8346-ND◊	2.65	1.99	1.77	1110-331K-RC
390.00	0.46	1.00	11.94	0.51	M6239-ND	3.75	2.82	2.50	1110-391K
560.00	0.70	0.80	11.94	0.51	M8347-ND◊	2.65	1.99	1.77	1110-561K-RC
RF Chokes 1120 Series 20%									
1.00	0.00	11.40	16.00	1.78	M6242-ND	4.26	3.20	2.84	1120-1R0M
4.70	0.01	11.40	16.00	1.52	M8348-ND◊	4.26	3.20	2.84	1120-4R7M-RC
RF Chokes 1120 Series 10%									
10.00	0.01	11.40	16.00	1.52	M8349-ND◊	3.99	3.00	2.66	1120-100K-RC
12.00	0.01	11.40	16.00	1.52	M8350-ND◊	3.99	3.00	2.66	1120-120K-RC
47.00	0.04	5.50	15.75	1.27	M6262-ND	4.26	3.20	2.84	1120-470K
47.00	0.04	5.50	15.75	1.27	M8351-ND◊	3.99	3.00	2.66	1120-470K-RC
68.00	0.05	4.80	15.75	1.02	M8352-ND◊	4.26	3.20	2.84	1120-680K-RC
82.00	0.06	4.80	15.75	1.02	M6265-ND	4.26	3.20	2.84	1120-820K
82.00	0.06	4.80	15.75	1.02	M8353-ND◊	3.99	3.00	2.66	1120-820K-RC
100.00	0.08	4.00	15.75	1.02	M8354-ND◊	4.26	3.20	2.84	1120-101K-RC
150.00	0.10	4.00	15.75	0.76	M8355-ND◊	3.99	3.00	2.66	1120-151K-RC
220.00	0.15	2.80	15.75	0.76	M8356-ND◊	3.99	3.00	2.66	1120-221K-RC
270.00	0.21	2.00	15.24	0.76	M8357-ND◊	3.99	3.00	2.66	1120-271K-RC
470.00	0.36	1.60	15.24	0.76	M8358-ND◊	3.99	3.00	2.66	1120-471K-RC
1000.00	0.82	1.00	15.24	0.51	M6278-ND	4.26	3.20	2.84	1120-102K
1000.00	0.82	1.00	15.24	0.51	M8359-ND◊	3.99	3.00	2.66	1120-102K-RC
1500.00	1.26	0.80	15.24	0.51	M8360-ND◊	3.99	3.00	2.66	1120-152K-RC
RF Chokes 1130 Series 20%									
1.20	0.00	21.00	20.32	2.03	M6284-ND	6.75	5.07	4.50	1130-1R2M
1.20	0.00	21.00	20.32	2.03	M8361-ND◊	6.15	4.62	4.10	1130-1R2M-RC
2.20	0.00	21.00	20.32	2.03	M6287-ND	6.75	5.07	4.50	1130-2R2M
8.20	0.00	21.00	20.83	2.03	M8362-ND◊	6.15	4.62	4.10	1130-8R2M-RC

L (uH) ±20% @ 1KHz	DCR (Ω) Max.	I,dc (A)	Dimension (mm)		Digi-Key Part No.	Price Each			J.W. Miller Part No.
			A Approx.	B Nom.		1	10	25	
RF Chokes 1130 Series 10%									
10.00	0.01	17.00	20.83	2.03	M8363-ND◊	6.15	4.62	4.10	1130-100K-RC
39.00	0.02	11.40	20.07	1.52	M8364-ND◊	6.15	4.62	4.10	1130-390K-RC
82.00	0.03	9.00	20.07	1.27	M6306-ND	6.75	5.07	4.50	1130-820K
100.00	0.03	9.00	20.07	1.27	M8365-ND◊	3.99	3.00	2.66	1130-101K-RC
120.00	0.05	7.20	20.07	1.27	M8366-ND◊	6.15	4.62	4.10	1130-121K-RC
220.00	0.08	5.50	19.56	1.02	M6311-ND	6.15	4.62	4.10	1130-221K
220.00	0.08	5.50	19.56	1.02	M8367-ND◊	6.15	4.62	4.10	1130-221K-RC
470.00	0.19	4.00	19.56	1.02	M6315-ND	6.75	5.07	4.50	1130-471K
470.00	0.19	4.00	19.56	1.02	M8368-ND◊	6.15	4.62	4.10	1130-471K-RC
560.00	0.21	4.00	19.56	0.76	M8369-ND◊	6.15	4.62	4.10	1130-561K-RC
680.00	0.26	2.80	19.56	0.76	M8370-ND◊	6.15	4.62	4.10	1130-681K-RC
1500.00	0.52	2.00	19.05	0.76	M8371-ND◊	6.15	4.62	4.10	1130-152K-RC
3300.00	1.27	1.30	19.05	0.51	M8372-ND◊	6.15	4.62	4.10	1130-332K-RC
4700.00	1.86	1.00	19.05	0.51	M8373-ND◊	6.15	4.62	4.10	1130-472K-RC
RF Chokes 1140 Series 10%									
18.00	0.01	27.00	29.21	2.03	M8374-ND◊	9.56	8.50	7.44	1140-180K-RC
33.00	0.01	21.00	29.21	1.78	M8375-ND◊	9.56	8.50	7.44	1140-330K-RC
47.00	0.02	14.40	29.21	1.78	M6345-ND	10.13	9.00	7.88	1140-470K
68.00	0.02	14.40	29.21	1.52	M6347-ND	10.13	9.00	7.88	1140-680K
68.00	0.02	14.40	29.21	1.52	M8376-ND◊	9.56	8.50	7.44	1140-680K-RC
100.00	0.03	14.40	29.21	1.52	M8377-ND◊	9.56	8.50	7.44	1140-101K-RC
120.00	0.03	14.40	29.21	1.52	M6350-ND	10.13	9.00	7.88	1140-121K
120.00	0.03	14.40	29.21	1.52	M8378-ND◊	9.56	8.50	7.44	1140-121K-RC
220.00	0.05	11.40	29.21	1.27	M8379-ND◊	9.56	8.50	7.44	1140-221K-RC
330.00	0.07	11.40	29.21	1.27	M6355-ND	10.13	9.00	7.88	1140-331K
330.00	0.07	11.40	29.21	1.27	M8380-ND◊	9.56	8.50	7.44	1140-331K-RC
820.00	0.15	7.20	29.21	1.02	M6360-ND	10.13	9.00	7.88	1140-821K
820.00	0.15	7.20	29.21	1.02	M8381-ND◊	9.56	8.50	7.44	1140-821K-RC
1200.00	0.23	5.50	28.96	1.02	M6362-ND	10.13	9.00	7.88	1140-122K
1200.00	0.23	5.50	28.96	1.02	M8382-ND◊	9.56	8.50	7.44	1140-122K-RC
2200.00	0.49	4.00	27.94	0.76	M8383-ND◊	9.56	8.50	7.44	1140-222K-RC
3900.00	0.85	2.80	27.94	0.76	M6368-ND	10.13	9.00	7.88	1140-392K
3900.00	0.85	2.80	27.94	0.76	M8384-ND◊	9.56	8.50	7.44	1140-392K-RC
4700.00	1.14	2.00	28.45	0.76	M8385-ND◊	9.56	8.50	7.44	1140-472K-RC
10,000.00	2.76	1.30	28.19	0.51	M8386-ND◊	10.13	9.00	7.88	1140-103K-RC
15,000.00	3.39	1.30	27.94	0.51	M8387-ND◊	9.56	8.50	7.44	1140-153K-RC

◊ ***RoHS Compliant***

Conformal Coated RF Chokes

Dim. in mm

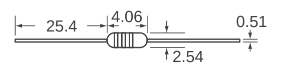

Features: • Epoxy coating • Operating temperature -55°C ~ 105°C

L (µH) 20%	Q Min.	Test Freq. (MHz)	I,dc Max. (mA)	Digi-Key Part No.	Price Each		J.W. Miller Part No.
					1	10	
0.10	35	25	700	M1350-ND	.30	.24	79FR10M
0.10	35	25	700	M8110-ND◊	.30	.24	79FR10M-RC
0.12	35	25	660	M1351-ND	.30	.24	79FR12M
0.12	35	25	660	M8111-ND◊	.30	.24	79FR12M-RC
0.15	35	25	620	M1352-ND	.30	.24	79FR15M
0.15	35	25	620	M8112-ND◊	.30	.24	79FR15M-RC
0.18	35	25	600	M1353-ND	.30	.24	79FR18M
0.18	35	25	600	M8113-ND◊	.30	.24	79FR18M-RC
0.22	35	25	400	M1354-ND	.30	.24	79FR22M
0.22	35	25	400	M8114-ND◊	.30	.24	79FR22M-RC
0.27	35	25	380	M1355-ND	.30	.24	79FR27M
0.27	35	25	380	M8115-ND◊	.30	.24	79FR27M-RC
0.33	35	25	370	M1356-ND	.30	.24	79FR33M
0.33	35	25	370	M8116-ND◊	.30	.24	79FR33M-RC
0.39	35	25	350	M1357-ND	.30	.24	79FR39M
0.39	35	25	350	M8117-ND◊	.30	.24	79FR39M-RC
0.47	35	25	330	M1358-ND	.30	.24	79FR47M
0.47	35	25	330	M8118-ND◊	.30	.24	79FR47M-RC
0.56	35	25	320	M1359-ND	.30	.24	79FR56M
0.56	35	25	320	M8119-ND◊	.30	.24	79FR56M-RC

L (µH) 10%	Q Min.	Test Freq. (MHz)	I,dc Max. (mA)	Digi-Key Part No.	Price Each		J.W. Miller Part No.
					1	10	
0.68	35	25	310	M1360-ND	.30	.24	79FR68M
0.68*	35	25	310	M8120-ND◊	.30	.24	79FR68M-RC
0.82*	35	25	290	M1361-ND	.30	.24	79FR82M
0.82*	35	25	290	M8121-ND◊	.30	.24	79FR82M-RC
1.0	35	25	270	M1362-ND	.30	.24	79F1R0K
1.0	35	25	270	M8122-ND◊	.30	.24	79F1R0K-RC
1.2	40	7.9	260	M1363-ND	.30	.24	79F1R2K
1.2	40	7.9	260	M8123-ND◊	.30	.24	79F1R2K-RC
1.5	40	7.9	250	M1364-ND	.30	.24	79F1R5K
1.5	40	7.9	250	M8124-ND◊	.30	.24	79F1R5K-RC
1.8	40	7.9	240	M1365-ND	.30	.24	79F1R8K
1.8	40	7.9	240	M8125-ND◊	.30	.24	79F1R8K-RC
2.2	40	7.9	230	M1366-ND	.30	.24	79F2R2K
2.2	40	7.9	230	M8126-ND◊	.30	.24	79F2R2K-RC
2.7	40	7.9	220	M1367-ND	.30	.24	79F2R7K
2.7	40	7.9	220	M8127-ND◊	.30	.24	79F2R7K-RC
3.3	40	7.9	210	M1368-ND	.30	.24	79F3R3K
3.3	40	7.9	210	M8128-ND◊	.30	.24	79F3R3K-RC
3.9	40	7.9	200	M1369-ND	.30	.24	79F3R9K
3.9	40	7.9	200	M8129-ND◊	.30	.24	79F3R9K-RC
4.7	40	7.9	190	M1370-ND	.30	.24	79F4R7K
4.7	40	7.9	190	M8130-ND◊	.30	.24	79F4R7K-RC
5.6	40	7.9	180	M1371-ND	.30	.24	79F5R6K
5.6	40	7.9	180	M8131-ND◊	.30	.24	79F5R6K-RC
6.8	40	7.9	175	M1372-ND	.30	.24	79F6R8K
6.8	40	7.9	175	M8132-ND◊	.30	.24	79F6R8K-RC
8.2	40	7.9	165	M1373-ND	.30	.24	79F8R2K
8.2	40	7.9	165	M8133-ND◊	.30	.24	79F8R2K-RC
10	40	2.5	160	M8134-ND◊	.30	.24	79F100K-RC
12	40	2.5	150	M1375-ND	.30	.24	79F120K
12	40	2.5	150	M8135-ND◊	.30	.24	79F120K-RC
15	40	2.5	145	M1376-ND	.30	.24	79F150K
15	40	2.5	145	M8136-ND◊	.30	.24	79F150K-RC

L (µH) 10%	Q Min.	Test Freq. (MHz)	I,dc Max. (mA)	Digi-Key Part No.	Price Each		J.W. Miller Part No.
					1	10	
18	40	2.5	140	M1377-ND	.30	.24	79F180K
18	40	2.5	140	M8137-ND◊	.30	.24	79F180K-RC
22	40	2.5	100	M1378-ND	.30	.24	79F220K
22	40	2.5	100	M8138-ND◊	.30	.24	79F220K-RC
27	40	2.5	80	M1379-ND	.30	.24	79F270K
27	40	2.5	80	M8139-ND◊	.30	.24	79F270K-RC
33	40	2.5	75	M8140-ND◊	.30	.24	79F330K-RC
39	40	2.5	74	M1381-ND	.30	.24	79F390K
39	40	2.5	74	M8141-ND◊	.30	.24	79F390K-RC
47	40	2.5	70	M1382-ND	.30	.24	79F470K
47	40	2.5	70	M8142-ND◊	.30	.24	79F470K-RC
56	40	2.5	68	M1383-ND	.30	.24	79F560K
56	40	2.5	68	M8143-ND◊	.30	.24	79F560K-RC
68	40	2.5	64	M1384-ND	.30	.24	79F680K
68	40	2.5	64	M8144-ND◊	.30	.24	79F680K-RC
82	40	2.5	46	M1385-ND	.30	.24	79F820K
82	40	2.5	46	M8145-ND◊	.30	.24	79F820K-RC
100	40	2.5	44	M8146-ND◊	.30	.24	79F101K-RC
120	40	0.79	42	M1387-ND	.30	.24	79F121K
120	40	0.79	42	M8147-ND◊	.30	.24	79F121K-RC
150	40	0.79	39	M1388-ND	.30	.24	79F151K
150	40	0.79	39	M8148-ND◊	.30	.24	79F151K-RC
180	40	0.79	37	M1389-ND	.30	.24	79F181K
180	40	0.79	37	M8939-ND◊	.30	.24	79F181K-RC
220	40	0.79	35	M8150-ND◊	.30	.24	79F221K-RC
270	40	0.79	25	M1391-ND	.30	.24	79F271K
270	40	0.79	25	M8151-ND◊	.30	.24	79F271K-RC
330	40	0.79	25	M1392-ND	.30	.24	79F331K
330	40	0.79	25	M8152-ND◊	.30	.24	79F331K-RC
390	40	0.79	25	M1393-ND	.30	.24	79F391K
390	40	0.79	25	M8153-ND◊	.30	.24	79F391K-RC
470	40	0.79	24	M8154-ND◊	.30	.24	79F471K-RC

*L (µH) 20% ◊ ***RoHS Compliant***

J.W.Miller
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Hash Choke

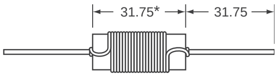

* 5230 Form Length is 22.23

L (µH) 20%	R, dc Max. (Ω)	I, dc Max. (A)	Coil Dia. Max. (mm)	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
				Ferrite Core			
4	.012	8	9.65	M5230-ND	1.88	1.41	5230
4	.012	8	9.65	M8268-ND◊	1.69	1.27	5230-RC
40	.082	3	7.87	M5240-ND	1.71	1.29	5240
40	.082	3	7.87	M8269-ND◊	1.69	1.27	5240-RC
68	.054	5	14.22	M8270-ND◊	1.97	1.41	5248-RC
100	.216	2	9.65	M5250-ND	2.19	1.57	5250
100	.216	2	9.65	M8271-ND◊	1.97	1.41	5250-RC
125	.08	3.5	12.70	M5252-ND	2.19	1.57	5252
125	.08	3.5	12.70	M8272-ND◊	1.97	1.41	5252-RC
250	.17	2.5	11.18	M8273-ND◊	1.97	1.41	5254-RC
500	.26	2	14.22	M8274-ND◊	1.97	1.41	5256-RC
1000	.55	1	12.70	M5258-ND	2.09	1.50	5258
1000	.55	1	12.70	M8275-ND◊	2.03	1.45	5258-RC

◊ *RoHS Compliant*

Radial Lead High Current RF Chokes

Dim. in mm

Parts finished
with VWI
rated sleeving

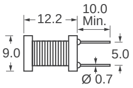

L (µH)	Q Min.	Test Freq. (MHz)	I, dc Max. (A)	R,dc Max. Ohms	Digi-Key Part No.	Price Each 1	10	J.W.Miller Part No.
1.0†	20	7.96	10	.013	M8610-ND◊	1.00	.75	6000-1R0M-RC
1.5†	20	7.96	8.5	.016	M6002-ND	1.51	1.14	6000-1R5M
1.5†	20	7.96	8.5	.016	M8611-ND◊	1.00	.75	6000-1R5M-RC
2.2†	20	7.96	6.5	.021	M8612-ND◊	1.00	.75	6000-2R2M-RC
3.3†	20	7.96	5.5	.025	M6004-ND	1.51	1.14	6000-3R3M
3.3†	20	7.96	5.5	.025	M8613-ND◊	1.00	.75	6000-3R3M-RC
4.7†	20	7.96	4.6	.030	M8614-ND◊	1.00	.75	6000-4R7M-RC
6.8†	20	7.96	4.1	.035	M8615-ND◊	1.00	.75	6000-6R8M-RC
10††	50	2.52	3.4	.045	M8616-ND◊	1.00	.75	6000-100K-RC
12††	50	2.52	3.1	.050	M6008-ND	1.51	1.14	6000-120K
12††	50	2.52	3.1	.050	M8617-ND◊	1.00	.75	6000-120K-RC
15††	50	2.52	2.9	.056	M8618-ND◊	1.00	.75	6000-150K-RC
18††	40	2.52	2.66	.061	M6010-ND	1.00	.75	6000-180K
18††	40	2.52	2.66	.061	M8619-ND◊	1.51	1.14	6000-180K-RC
22††	40	2.52	2.4	.070	M8620-ND◊	1.00	.75	6000-220K-RC
27††	40	2.52	2.22	.080	M8621-ND◊	1.51	1.14	6000-270K-RC
33††	30	2.52	2.05	.090	M8622-ND◊	1.00	.75	6000-330K-RC
39††	30	2.52	1.85	.10	M6014-ND	1.51	1.14	6000-390K
39††	30	2.52	1.85	.10	M8623-ND◊	1.00	.75	6000-390K-RC
47††	30	2.52	1.77	.16	M8624-ND◊	1.00	.75	6000-470K-RC
56††	30	2.52	1.48	.18	M8625-ND◊	1.00	.75	6000-560K-RC
68††	30	2.52	1.36	.21	M8626-ND◊	1.51	1.14	6000-680K-RC
82††	30	2.52	1.3	.23	M6018-ND	1.51	1.14	6000-820K
82††	30	2.52	1.3	.23	M8627-ND◊	1.00	.75	6000-820K-RC
100††	20	.796	1.4	.28	M8628-ND◊	1.00	.75	6000-101K-RC
120††	20	.796	1.25	.32	M8629-ND◊	1.51	1.14	6000-121K-RC
150††	20	.796	1.15	.37	M6021-ND	1.51	1.14	6000-151K
150††	20	.796	1.15	.37	M8630-ND◊	1.00	.75	6000-151K-RC
180††	20	.796	1.08	.58	M8631-ND◊	1.00	.75	6000-181K-RC
220††	20	.796	1.0	.65	M8632-ND◊	1.00	.75	6000-221K-RC
270††	20	.796	.90	.75	M8633-ND◊	1.00	.75	6000-271K-RC
330††	20	.796	.78	.85	M8634-ND◊	1.51	1.14	6000-331K-RC
390††	20	.796	.74	1.0	M6026-ND	1.51	1.14	6000-391K
390††	20	.796	.74	1.0	M8635-ND◊	1.51	1.14	6000-391K-RC
470††	20	.796	.68	1.1	M6027-ND	1.00	.75	6000-471K
470††	20	.796	.68	1.1	M8636-ND◊	1.00	.75	6000-471K-RC
560††	20	.796	.64	1.4	M8637-ND◊	1.00	.75	6000-561K-RC
680††	20	.796	.59	1.6	M6029-ND	1.51	1.14	6000-681K
680††	20	.796	.59	1.6	M8638-ND◊	1.00	.75	6000-681K-RC
820††	20	.796	.56	1.8	M8639-ND◊	1.00	.75	6000-821K-RC
1000††	50	.252	.51	2.9	M8640-ND◊	1.00	.75	6000-102K-RC

† 20% tolerance. †† 10% tolerance. ◊ *RoHS Compliant*

Coiled RF Chokes

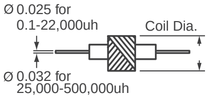

L (µH) 5%	Q Min.	Test Freq. (MHz)	I, dc Max. (mA)	DCR Ω (Max.)	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
					Iron Core			
1.0†	41	25	2041	4.19	M7010-ND	1.01	.81	70F106AI
1.0†	41	25	2041	4.19	M8388-ND◊	1.01	.81	70F106AI-RC
2.2††	43	7.9	1132	4.06	M72R2-ND	1.23	.98	70F226AI
2.2††	43	7.9	1132	4.06	M8398-ND◊	1.23	.98	70F226AI-RC
3.3††	40	7.9	912	3.81	M73R3-ND	1.23	.98	70F336AI
3.3††	40	7.9	912	3.81	M8403-ND◊	1.23	.98	70F336AI-RC
4.7††	43	7.9	661	3.81	M74R7-ND	1.23	.98	70F476AI
4.7††	43	7.9	661	3.81	M8409-ND◊	1.23	.98	70F476AI-RC
6.8††	40	7.9	566	3.81	M76R8-ND	1.23	.98	70F686AI
6.8††	40	7.9	566	3.81	M8412-ND◊	1.23	.98	70F686AI-RC
10††	36	7.9	277	4.06	M7100-ND	1.19	.90	70F105AI
10††	36	7.9	277	4.06	M8389-ND◊	1.19	.90	70F105AI-RC
22	51	2.5	229	4.19	M7220-ND	1.19	.90	70F225AI
22	51	2.5	229	4.19	M8394-ND◊	1.19	.90	70F225AI-RC
33	50	2.5	208	4.32	M7330-ND	1.19	.90	70F335AI
33	50	2.5	208	4.32	M8399-ND◊	1.19	.90	70F335AI-RC
47	44	2.5	188	4.44	M8404-ND◊	1.19	.90	70F475AI-RC
68	42	2.5	169	4.57	M7680-ND	1.19	.90	70F685AI
100	25	2.5	139	4.19	M7101-ND	1.30	.98	70F104AI
100	25	2.5	139	4.19	M8390-ND◊	1.24	.93	70F104AI-RC
330	41	.79	103	4.44	M7331-ND	1.30	.98	70F334AI
470	35	.79	95	4.70	M7471-ND	1.30	.98	70F474AI
470	35	.79	95	4.70	M8405-ND◊	1.30	.98	70F474AI-RC
680	37	.79	87	5.08	M7681-ND	1.37	1.03	70F684AI
1000	30	.79	79	5.71	M8391-ND◊	1.24	.93	70F103AI-RC
2200	40	.25	57	6.10	M8395-ND◊	1.41	1.06	70F223AI-RC
3300	52	.25	53	6.60	M7332-ND	1.41	1.06	70F333AI
3300	52	.25	53	6.60	M8400-ND◊	1.41	1.06	70F333AI-RC
4700	49	.25	48	7.24	M7472-ND	1.53	1.15	70F473AI
4700	49	.25	48	7.24	M8406-ND◊	1.53	1.15	70F473AI-RC
6800	51	.25	43	7.87	M7682-ND	1.53	1.15	70F683AI
6800	51	.25	43	7.87	M8410-ND◊	1.53	1.15	70F683AI-RC
10,000	41	.25	38	8.51	M7103-ND	1.46	1.10	70F102AI
10,000	41	.25	38	8.51	M8392-ND◊	1.46	1.10	70F102AI-RC
22,000	50	.079	41	8.38	M8396-ND◊	2.25	1.61	70F222AI-RC
					Ferrite Core			
33,000	61	.079	43	8.97	M8401-ND◊	3.10	2.22	70F332AF-RC
47,000	57	.079	38	9.75	M7473-ND	3.10	2.22	70F472AF
47,000	57	.079	38	9.75	M8407-ND◊	3.10	2.22	70F472AF-RC
68,000	57	.079	34	10.54	M8411-ND◊	3.10	2.22	70F682AF-RC
100,000	48	.079	29	11.33	M8393-ND◊	1.72	1.23	70F101AF-RC
220,000	51	.025	39	13.72	M8397-ND◊	2.33	1.67	70F221AF-RC
330,000	54	.025	34	14.73	M8402-ND◊	2.59	1.85	70F331AF-RC
470,000	55	.025	30	15.62	M8408-ND◊	2.59	1.85	70F471AF-RC

† 20% tolerance. †† 10% tolerance. ◊ *RoHS Compliant*

Molded RF Chokes

9230 Series Dimensions: Form Length: 6.35mm; Form Diameter: 2.41mm; Lead Length: 38.10mm; Tolerance: ±10%.

9250 Series Dimensions: Form Length: 10.41mm; Form Diameter: 4.11mm; Lead Length: 25.4mm; Tolerance: ±10%.

L (µH)	Q Min.	Test Freq. (MHz)	I, dc Max. (mA)	DCR Ω (Max.)	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
					Phenolic Core			
0.1	40	25.0	1100	0.07	M8656-ND◊	1.13	.90	9230-94-RC
0.15	38	25.0	1100	0.10	M8657-ND◊	1.04	.84	9230-00-RC
0.22	33	25.0	935	0.14	M9R22-ND	1.04	.84	9230-04
0.22	33	25.0	935	0.14	M8658-ND◊	1.04	.84	9230-04-RC
0.33	30	25.0	780	0.20	M9R33-ND	1.04	.84	9230-08
0.33	30	25.0	780	0.20	M8659-ND◊	1.04	.84	9230-08-RC
0.39	30	25.0	640	0.30	M9R39-ND	1.04	.84	9230-10
0.47	30	25.0	590	0.35	M9R47-ND	1.04	.84	9230-12
0.47	30	25.0	590	0.35	M8660-ND◊	1.04	.84	9230-12-RC
0.68	28	25.0	450	0.60	M8661-ND◊	1.04	.84	9230-16-RC
0.82	28	25.0	380	0.85	M9R82-ND	1.04	.84	9230-18
1.0	25	25.0	350	1.0	M9010-ND	1.04	.84	9230-20
1.0	25	25.0	350	1.0	M8641-ND◊	1.04	.84	9230-20-RC
					Iron Core			
2.2	30	7.9	550	0.40	M92R2-ND	1.13	.85	9230-28
2.2	30	7.9	550	0.40	M8647-ND◊	1.13	.85	9230-28-RC
3.3	45	7.9	380	0.85	M8650-ND◊	1.13	.85	9230-32-RC
4.7	45	7.9	320	1.2	M94R7-ND	1.13	.85	9230-36
4.7	45	7.9	320	1.2	M8653-ND◊	1.13	.85	9230-36-RC
6.8	50	7.9	245	2.0	M96R8-ND	1.28	.96	9230-40
6.8	50	7.9	245	2.0	M8655-ND◊	1.28	.96	9230-40-RC
10	55	7.9	180	3.7	M9100-ND	1.28	.96	9230-44
10	55	7.9	180	3.7	M8642-ND◊	1.28	.96	9230-44-RC
22	50	2.5	190	3.3	M9220-ND	1.30	.98	9230-52
22	50	2.5	190	3.3	M8645-ND◊	1.30	.98	9230-52-RC
					Ferrite Core			
33	45	2.5	187	3.4	M8648-ND◊	1.38	1.04	9230-56-RC
47	45	2.5	165	4.5	M8651-ND◊	1.38	1.04	9230-60-RC
68	50	2.5	135	6.7	M9680-ND	1.38	1.04	9230-64
68	50	2.5	135	6.7	M8654-ND◊	1.38	1.04	9230-64-RC
100	50	2.5	125	8.0	M9101-ND	1.52	1.15	9230-68
100	50	2.5	125	8.0	M8643-ND◊	1.52	1.15	9230-68-RC
220	30	0.79	73	21	M9221-ND	1.52	1.15	9230-76
220	30	0.79	73	21	M8646-ND◊	1.52	1.15	9230-76-RC
330	30	0.79	62	28	M9331-ND	1.52	1.15	9230-80
330	30	0.79	62	28	M8649-ND◊	1.52	1.15	9230-80-RC
470	30	0.79	50	42	M8652-ND◊	1.52	1.15	9230-84-RC
680	30	0.79	42	60	M9681-ND	1.52	1.15	9230-88
1000	30	0.79	38	72	M9102-ND	1.86	1.40	9230-92
1000	30	0.79	38	72	M8644-ND◊	1.86	1.40	9230-92-RC
					Phenolic Core (Shielded)			
0.1	50	25.0	1790	0.025	M9201-ND	1.90	1.36	9250-101
0.1	50	25.0	1790	0.025	M8206-ND◊	1.90	1.36	9250-101-RC
0.12	51	25.0	1530	0.034	M9202-ND	1.90	1.36	9250-121
0.15	51	25.0	1470	0.037	M9203-ND	1.90	1.36	9250-151
0.15	51	25.0	1470	0.037	M8207-ND◊	1.90	1.36	9250-151-RC
0.18	50	25.0	1300	0.047	M9204-ND	1.90	1.36	9250-181
0.18	50	25.0	1300	0.047	M8208-ND◊	1.90	1.36	9250-181-RC
0.22	49	25.0	1100	0.067	M8209-ND◊	1.90	1.36	9250-221-RC
0.27	47	25.0	855	0.11	M9206-ND	1.90	1.36	9250-271
0.33	46	25.0	780	0.13	M8210-ND◊	1.90	1.36	9250-331-RC
0.47	44	25.0	565	0.25	M8211-ND◊	1.90	1.36	9250-471-RC
0.56	43	25.0	490	0.33	M9210-ND	1.90	1.36	9250-561
0.68	42	25.0	420	0.45	M9211-ND	1.90	1.36	9250-681
0.68	42	25.0	420	0.45	M8212-ND◊	1.77	1.27	9250-681-RC
0.82	40	25.0	370	0.59	M9212-ND	1.90	1.36	9250-821
					Iron Core (Shielded)			
1.0	44	25.0	1070	0.07	M9213-ND	1.99	1.42	9250-102
1.0	44	25.0	1070	0.07	M8213-ND◊	1.99	1.42	9250-102-RC
1.2	44	7.9	895	0.10	M9214-ND	1.99	1.42	9250-122
1.2	44	7.9	895	0.10	M8214-ND◊	1.99	1.42	9250-122-RC
1.5	44	7.9	815	0.12	M9215-ND	1.99	1.42	9250-152
1.8	44	7.9	775	0.14	M9216-ND	1.99	1.42	9250-182
1.8	44	7.9	775	0.14	M8215-ND◊	1.99	1.42	9250-182-RC
2.2	44	7.9	650	0.19	M9217-ND	1.99	1.42	9250-222
2.2	44	7.9	650	0.19	M8216-ND◊	1.99	1.42	9250-222-RC
2.7	44	7.9	535	0.28	M9218-ND	1.99	1.42	9250-272

◊ *RoHS Compliant*

(Continued)

J.W.Miller
MAGNETICS

Molded RF Chokes *(Cont.)*

L (µH)	Q Min.	Test Freq. (MHz)	I, dc Max. (mA)	DCR Ω (Max.)	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
3.3	44	7.9	480	0.35	M8217-ND◊	1.99	1.42	9250-332-RC
3.9	44	7.9	450	0.40	M9222-ND	1.99	1.42	9250-392
3.9	44	7.9	450	0.40	M8218-ND◊	1.99	1.42	9250-392-RC
4.7	44	7.9	380	0.55	M8219-ND◊	1.99	1.42	9250-472-RC
5.6	44	7.9	335	0.72	M9224-ND	1.99	1.42	9250-562
6.8	50	7.9	280	1.02	M9225-ND	1.99	1.42	9250-682
8.2	50	7.9	250	1.32	M9226-ND	1.99	1.42	9250-822
8.2	50	7.9	250	1.32	M8220-ND◊	1.99	1.42	9250-822-RC
10	50	7.9	220	1.62	M9227-ND	1.99	1.42	9250-103
10	50	7.9	220	1.62	M8221-ND◊	1.99	1.42	9250-103-RC
12	55	2.5	200	2.0	M9228-ND	1.99	1.42	9250-123
Ferrite Core (Shielded)								
15	45	2.5	315	0.80	M9229-ND	1.99	1.42	9250-153
15	45	2.5	315	0.80	M8222-ND◊	1.99	1.42	9250-153-RC
18	45	2.5	300	0.89	M9230-ND	2.39	1.71	9250-183
18	45	2.5	300	0.89	M8223-ND◊	2.39	1.71	9250-183-RC
22	45	2.5	290	0.96	M9231-ND	1.99	1.42	9250-223
22	45	2.5	290	0.96	M8224-ND◊	1.99	1.42	9250-223-RC
27	45	2.5	260	1.19	M8225-ND◊	2.39	1.71	9250-273-RC
33	45	2.5	240	1.37	M9233-ND	2.19	1.57	9250-333
33	45	2.5	240	1.37	M8226-ND◊	2.19	1.57	9250-333-RC
39	50	2.5	205	1.93	M9234-ND	2.19	1.57	9250-393
39	50	2.5	205	1.93	M8227-ND◊	2.19	1.57	9250-393-RC
47	50	2.5	195	2.11	M9235-ND	2.19	1.57	9250-473
47	50	2.5	195	2.11	M8228-ND◊	2.19	1.57	9250-473-RC
56	50	2.5	190	2.23	M9236-ND	2.19	1.57	9250-563
56	50	2.5	190	2.23	M8229-ND◊	2.19	1.57	9250-563-RC
68	50	2.5	170	2.70	M9237-ND	2.19	1.57	9250-683
68	50	2.5	170	2.70	M8230-ND◊	2.19	1.57	9250-683-RC
82	50	2.5	180	2.44	M9238-ND	2.39	1.71	9250-823
82	50	2.5	180	2.44	M8231-ND◊	2.39	1.71	9250-823-RC
100	50	2.5	160	3.12	M9239-ND	2.39	1.71	9250-104
100	50	2.5	160	3.12	M8232-ND◊	2.39	1.71	9250-104-RC
120	55	.79	150	3.6	M9240-ND	2.39	1.71	9250-124
120	55	.79	150	3.6	M8233-ND◊	2.39	1.71	9250-124-RC
150	55	.79	140	4.1	M9241-ND	2.39	1.71	9250-154
150	55	.79	140	4.1	M8234-ND◊	2.39	1.71	9250-154-RC
180	55	.79	135	4.4	M9242-ND	2.39	1.71	9250-184
180	55	.79	135	4.4	M8235-ND◊	2.39	1.71	9250-184-RC
220	55	.79	125	5.0	M8236-ND◊	2.39	1.71	9250-224-RC
270	55	.79	115	5.8	M9244-ND	2.39	1.71	9250-274
270	55	.79	115	5.8	M8237-ND◊	2.39	1.71	9250-274-RC
330	55	.79	110	6.4	M8238-ND◊	2.39	1.71	9250-334-RC
390	60	.79	105	7.4	M8239-ND◊	2.39	1.71	9250-394-RC
470	60	.79	92	9.5	M9247-ND	2.39	1.71	9250-474
470	60	.79	92	9.5	M8240-ND◊	2.39	1.71	9250-474-RC
560	60	.79	90	10.5	M9248-ND	2.39	1.71	9250-564
560	60	.79	90	10.5	M8241-ND◊	2.39	1.71	9250-564-RC
680	60	.79	80	11.8	M8242-ND◊	2.39	1.71	9250-684-RC
820	60	.79	80	13.0	M9250-ND	2.39	1.71	9250-824
820	60	.79	80	13.0	M8243-ND◊	2.39	1.71	9250-824-RC
1,000	60	.79	70	17.5	M8244-ND◊	2.39	1.71	9250-105-RC
1,200	45	.25	60	22.1	M9252-ND	2.74	1.96	9250-125
1,200	45	.25	60	22.1	M8245-ND◊	2.74	1.96	9250-125-RC
1,500	45	.25	55	26.5	M9253-ND	2.74	1.96	9250-155
1,500	45	.25	55	26.5	M8246-ND◊	2.74	1.96	9250-155-RC
1,800	45	.25	50	29.9	M9254-ND	2.74	1.96	9250-185
1,800	45	.25	50	29.9	M8247-ND◊	2.74	1.96	9250-185-RC
2,200	45	.25	50	33.8	M8248-ND◊	2.74	1.96	9250-225-RC
2,700	45	.25	40	47.3	M9256-ND	2.74	1.96	9250-275
2,700	45	.25	40	47.3	M8249-ND◊	2.74	1.96	9250-275-RC
3,300	45	.25	40	53.0	M9257-ND	2.74	1.96	9250-335
3,300	45	.25	40	53.0	M8250-ND	2.74	1.96	9250-335-RC
3,900	45	.25	35	73.8	M9258-ND	2.74	1.96	9250-395
3,900	45	.25	35	73.8	M8251-ND◊	2.74	1.96	9250-395-RC
4,700	45	.25	31	81.6	M9259-ND	2.95	2.11	9250-475
4,700	45	.25	31	81.6	M8252-ND◊	2.95	2.11	9250-475-RC
5,600	44	.25	28	89.9	M9260-ND	2.95	2.11	9250-565
5,600	44	.25	28	89.9	M8253-ND◊	2.95	2.11	9250-565-RC
6,800	40	.25	27	111	M9261-ND	2.95	2.11	9250-685
6,800	40	.25	27	111	M8254-ND◊	2.95	2.11	9250-685-RC
8,200	40	.25	26	119	M8255-ND◊	2.95	2.11	9250-825-RC
10,000	40	.25	24	137	M9263-ND	2.95	2.11	9250-106
10,000	40	.25	24	137	M8256-ND◊	2.95	2.11	9250-106-RC
12,000	30	.079	23	143	M9264-ND	2.81	2.11	9250-126
12,000	30	.079	23	143	M8257-ND◊	2.81	2.11	9250-126-RC
15,000	30	.079	22	157	M9265-ND	2.74	1.96	9250-156
15,000	30	.079	22	157	M8258-ND◊	2.74	1.96	9250-156-RC
18,000	30	.079	21	175	M9266-ND	3.75	2.82	9250-186
18,000	30	.079	21	175	M8259-ND◊	3.75	2.82	9250-186-RC
22,000	27	.079	17	274	M9267-ND	4.95	3.72	9250-226
22,000	27	.079	17	274	M8260-ND◊	4.95	3.72	9250-226-RC
27,000	27	.079	16	308	M8261-ND◊	4.95	3.72	9250-276-RC
33,000	27	.079	15	343	M8262-ND◊	4.95	3.72	9250-336-RC
39,000	27	.079	15	376	M9270-ND	4.95	3.72	9250-396
47,000	23	.079	13	473	M9271-ND	4.95	3.72	9250-476
47,000	23	.079	13	473	M8263-ND◊	4.80	3.60	9250-476-RC
56,000	23	.079	13	512	M9272-ND	6.30	4.73	9250-566
56,000	23	.079	13	512	M8264-ND◊	6.30	4.73	9250-566-RC
68,000	23	.079	12	580	M9273-ND	6.30	4.73	9250-686
68,000	23	.079	12	580	M8265-ND◊	6.30	4.73	9250-686-RC
82,000	21	.079	11	618	M9274-ND	6.54	4.91	9250-826
82,000	21	.079	11	618	M8266-ND◊	6.54	4.91	9250-826-RC
100,000	18	.079	11	678	M9275-ND	8.10	6.08	9250-107
100,000	18	.079	11	678	M8267-ND◊	8.10	6.08	9250-107-RC

◊ ***RoHS Compliant***

Filter and Miniature High Current Chokes

Dim. in mm.

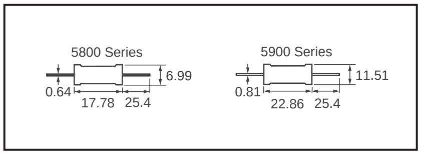

Inductance ± 15% @ 1 KHz. Coils finished with sleeving VW1 Rated. Leads No. 20 tinned copper 1" long minimum Ambient Temperature: -55°C ~ 125°C.

L (µH) ±10%	Max. DCR Ω @ +20°C	Rated Current Amp	Digi-Key Part No.	Price Each 1	10	J.W.Miller Part No.
5800 Series						
3.9	.019	1.28	M8276-ND◊	1.33	1.00	5800-3R9-RC
4.7	.022	1.28	M5802-ND	1.48	1.11	5800-4R7
4.7	.022	1.28	M8277-ND◊	1.33	1.00	5800-4R7-RC
6.8	.026	1.28	M5804-ND	1.33	1.00	5800-6R8
8.2	.028	1.28	M5805-ND	1.48	1.11	5800-8R2
10	.033	1.28	M8278-ND◊	1.33	1.00	5800-100-RC
12	.037	1.28	M5807-ND	1.48	1.11	5800-120
12	.037	1.28	M8279-ND◊	1.33	1.00	5800-120-RC
15	.040	1.28	M5808-ND	1.48	1.11	5800-150
15	.040	1.28	M8280-ND◊	1.33	1.00	5800-150-RC
18	.044	1.28	M8281-ND◊	1.48	1.11	5800-180-RC
22	.050	1.28	M8282-ND◊	1.33	1.00	5800-220-RC
27	.058	1.28	M8283-ND◊	1.33	1.00	5800-270-RC
33	.075	1.008	M5812-ND	1.48	1.11	5800-330
33	.075	1.008	M8284-ND◊	1.33	1.00	5800-330-RC
39	.094	0.804	M5813-ND	1.48	1.11	5800-390
39	.094	0.804	M8285-ND	1.33	1.00	5800-390-RC
47	.109	0.804	M8286-ND	1.48	1.11	5800-470-RC
56	.140	0.804	M5815-ND	1.48	1.11	5800-560
56	.140	0.804	M8287-ND◊	1.33	1.00	5800-560-RC
68	.145	0.804	M5816-ND	1.52	1.14	5800-680
68	.145	0.804	M8288-ND◊	1.33	1.00	5800-680-RC
82	.152	0.804	M5817-ND	1.48	1.11	5800-820
82	.152	0.804	M8289-ND◊	1.33	1.00	5800-820-RC
100	.208	0.632	M8290-ND◊	1.33	1.00	5800-101-RC
120	.283	0.508	M5819-ND	1.48	1.11	5800-121
120	.283	0.508	M8291-ND◊	1.33	1.00	5800-121-RC
150	.340	0.508	M5820-ND	1.48	1.11	5800-151
150	.340	0.508	M8292-ND◊	1.33	1.00	5800-151-RC
180	.362	0.508	M8293-ND◊	1.33	1.00	5800-181-RC
220	.430	0.508	M8294-ND◊	1.33	1.00	5800-221-RC
270	.557	0.400	M8295-ND◊	1.33	1.00	5800-271-RC
330	.665	0.400	M8296-ND◊	1.33	1.00	5800-331-RC
390	.772	0.400	M8297-ND◊	1.33	1.00	5800-391-RC
470	1.15	0.315	M5826-ND	1.48	1.11	5800-471
470	1.15	0.315	M8298-ND◊	1.33	1.00	5800-471-RC
560	1.27	0.315	M5827-ND	1.48	1.11	5800-561
560	1.27	0.315	M8299-ND◊	1.33	1.00	5800-561-RC
680	1.61	0.250	M8300-ND◊	1.33	1.00	5800-681-RC
820	1.96	0.200	M5829-ND	1.48	1.11	5800-821
1000	2.30	0.200	M8301-ND◊	1.33	1.00	5800-102-RC
1200	2.65	0.200	M5831-ND	1.48	1.11	5800-122
1200	2.65	0.200	M8302-ND◊	1.33	1.00	5800-122-RC
1500	3.45	0.158	M5832-ND	1.48	1.11	5800-152
1500	3.45	0.158	M8303-ND◊	1.33	1.00	5800-152-RC
1800	4.03	0.158	M5833-ND	1.48	1.11	5800-182
1800	4.03	0.158	M8304-ND◊	1.33	1.00	5800-182-RC
2200	4.48	0.158	M5834-ND	1.48	1.11	5800-222
2200	4.48	0.158	M8305-ND◊	1.33	1.00	5800-222-RC
2700	5.90	0.125	M5835-ND	1.48	1.11	5800-272
2700	5.90	0.125	M8306-ND◊	1.48	1.11	5800-272-RC
3300	6.56	0.125	M8307-ND◊	1.33	1.00	5800-332-RC
3900	8.63	0.100	M5837-ND	1.48	1.11	5800-392
3900	8.63	0.100	M8308-ND◊	1.33	1.00	5800-392-RC
4700	10.5	0.100	M5838-ND	1.48	1.11	5800-472
4700	10.5	0.100	M8309-ND◊	1.33	1.00	5800-472-RC
5600	13.9	0.082	M5839-ND	1.48	1.11	5800-562
5600	13.9	0.082	M8310-ND◊	1.33	1.00	5800-562-RC
6800	16.3	0.082	M5840-ND	1.48	1.11	5800-682
6800	16.3	0.082	M8311-ND◊	1.33	1.00	5800-682-RC
8200	20.8	0.065	M8312-ND◊	1.33	1.00	5800-822-RC
10000	26.4	0.050	M8313-ND◊	1.33	1.00	5800-103-RC
15000	42.5	0.039	M8314-ND◊	1.33	1.00	5800-153-RC
18000	48.3	0.039	M8315-ND◊	1.33	1.00	5800-183-RC
5900 Series						
3.9	.007	4.0	M8316-ND◊	2.37	1.69	5900-3R9-RC
4.7	.008	4.0	M5902-ND	2.63	1.88	5900-4R7
4.7	.008	4.0	M8317-ND◊	2.37	1.69	5900-4R7-RC
10	.017	4.0	M8318-ND◊	2.37	1.69	5900-100-RC
22	.026	4.0	M8319-ND◊	2.37	1.69	5900-220-RC
33	.032	4.0	M8320-ND◊	2.37	1.69	5900-330-RC
47	.035	4.0	M5914-ND	2.63	1.88	5900-470
47	.035	4.0	M8321-ND◊	2.37	1.69	5900-470-RC
68	.047	2.5	M5916-ND	2.63	1.88	5900-680
68	.047	2.5	M8322-ND◊	2.37	1.69	5900-680-RC
82	.060	2.0	M5917-ND	2.63	1.88	5900-820
82	.060	2.0	M8323-ND◊	2.37	1.69	5900-820-RC
100	.090	1.6	M5918-ND	2.63	1.88	5900-101
100	.090	1.6	M8324-ND◊	2.37	1.69	5900-101-RC
150	.129	1.6	M5920-ND	2.63	1.88	5900-151
150	.129	1.6	M8325-ND◊	2.37	1.69	5900-151-RC
180	.150	1.6	M8326-ND◊	2.37	1.69	5900-181-RC
220	.162	1.6	M5922-ND	2.63	1.88	5900-221
220	.162	1.6	M8327-ND	2.37	1.69	5900-221-RC
330	.212	1.6	M8328-ND	2.37	1.69	5900-331-RC
390	.281	1.6	M5925-ND	2.63	1.88	5900-391
390	.281	1.6	M8329-ND	2.37	1.69	5900-391-RC
470	.380	1.2	M8330-ND◊	2.37	1.69	5900-471-RC
560	.420	1.0	M5927-ND	2.63	1.88	5900-561
680	.548	1.0	M5928-ND	2.63	1.88	5900-681
680	.548	1.0	M8331-ND◊	2.37	1.69	5900-681-RC
1000	.844	0.8	M5930-ND	2.63	1.88	5900-102
1000	.844	0.8	M8332-ND◊	2.37	1.69	5900-102-RC
2200	2.00	0.5	M8333-ND◊	2.37	1.69	5900-222-RC
3900	2.75	0.4	M8334-ND◊	2.37	1.69	5900-392-RC
4700	3.19	0.4	M5938-ND	2.63	1.88	5900-472
4700	3.19	0.4	M8335-ND◊	2.37	1.69	5900-472-RC
10000	7.30	0.250	M8336-ND◊	2.03	1.53	5900-103-RC
100000	89.7	0.065	M8337-ND◊	2.03	1.53	5900-104-RC

◊ ***RoHS Compliant***

J.W.Miller
MAGNETICS

Epoxy Conformal Coated Inductors

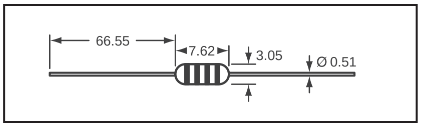

L± 10% µH	Q Min.	Test Freq. MHz	I, dc Max. mA	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
Phenolic Core							
.10	40	25.0	1100	M8001-ND	1.13	.90	8230-94
.10	40	25.0	1100	M8159-ND◊	1.13	.90	8230-94-RC
.12	40	25.0	1100	M8002-ND	1.13	.90	8230-96
.15	38	25.0	1100	M8003-ND	1.25	1.00	8230-00
.18	35	25.0	1010	M8004-ND	1.25	1.00	8230-02
.18	35	25.0	1010	M8160-ND◊	1.25	1.00	8230-02-RC
.22	33	25.0	935	M8005-ND	1.25	1.00	8230-04
.22	33	25.0	935	M8161-ND◊	1.25	1.00	8230-04-RC
.27	33	25.0	875	M8006-ND	1.25	1.00	8230-06
.27	33	25.0	875	M8162-ND◊	1.25	1.00	8230-06-RC
.33	30	25.0	780	M8007-ND	1.25	1.00	8230-08
.33	30	25.0	780	M8163-ND◊	1.25	1.00	8230-08-RC
.39	30	25.0	640	M8008-ND	1.25	1.00	8230-10
.39	30	25.0	640	M8164-ND◊	1.25	1.00	8230-10-RC
.47	30	25.0	590	M8165-ND◊	1.25	1.00	8230-12-RC
.56	30	25.0	495	M8010-ND	1.25	1.00	8230-14
.56	30	25.0	495	M8166-ND◊	1.25	1.00	8230-14-RC
.68	28	25.0	450	M8011-ND	1.25	1.00	8230-16
.68	28	25.0	450	M8167-ND◊	1.25	1.00	8230-16-RC
.82	28	25.0	380	M8012-ND	1.25	1.00	8230-18
.82	28	25.0	380	M8168-ND◊	1.25	1.00	8230-18-RC
1.00	25	25.0	350	M8013-ND	1.25	1.00	8230-20
1.00	25	25.0	350	M8169-ND◊	1.25	1.00	8230-20-RC
Iron Core							
1.20	25	7.9	825	M8170-ND◊	1.19	.90	8230-22-RC
1.50	28	7.9	745	M8015-ND	1.19	.90	8230-24
1.50	28	7.9	745	M8171-ND◊	1.19	.90	8230-24-RC
1.80	30	7.9	640	M8016-ND	1.19	.90	8230-26
1.80	30	7.9	640	M8172-ND◊	1.19	.90	8230-26-RC
2.20	30	7.9	550	M8017-ND	1.19	.90	8230-28
2.20	30	7.9	550	M8173-ND◊	1.19	.90	8230-28-RC
2.70	37	7.9	495	M8018-ND	1.19	.90	8230-30
2.70	37	7.9	495	M8174-ND◊	1.19	.90	8230-30-RC
3.30	45	7.9	380	M8175-ND◊	1.19	.90	8230-32-RC
3.90	45	7.9	350	M8020-ND	1.19	.90	8230-34
3.90	45	7.9	350	M8176-ND◊	1.19	.90	8230-34-RC
4.70	45	7.9	320	M8177-ND◊	1.19	.90	8230-36-RC
5.60	50	7.9	260	M8022-ND	1.19	.90	8230-38
5.60	50	7.9	260	M8178-ND◊	1.19	.90	8230-38-RC
6.80	50	7.9	245	M8023-ND	1.19	.90	8230-40
6.80	50	7.9	245	M8179-ND◊	1.19	.90	8230-40-RC
8.20	55	7.9	210	M8024-ND	1.19	.90	8230-42
8.20	55	7.9	210	M8180-ND◊	1.19	.90	8230-42-RC
10.00	55	7.9	180	M8181-ND◊	1.19	.90	8230-44-RC
12.00	45	2.5	210	M8026-ND	1.19	.90	8230-46
12.00	45	2.5	210	M8182-ND◊	1.19	.90	8230-46-RC
15.00	45	2.5	205	M8027-ND	1.19	.90	8230-48
15.00	45	2.5	205	M8183-ND◊	1.19	.90	8230-48-RC
18.00	50	2.5	195	M8028-ND	1.19	.90	8230-50
18.00	50	2.5	195	M8184-ND◊	1.19	.90	8230-50-RC
22.00	50	2.5	190	M8029-ND	1.19	.90	8230-52
22.00	50	2.5	190	M8185-ND◊	1.19	.90	8230-52-RC
27.00	50	2.5	185	M8030-ND	1.19	.90	8230-54
27.00	50	2.5	185	M8186-ND◊	1.19	.90	8230-54-RC
Ferrite Core							
33.00	45	2.5	187	M8031-ND	1.37	1.03	8230-56
33.00	45	2.5	187	M8187-ND◊	1.37	1.03	8230-56-RC
39.00	45	2.5	180	M8032-ND	1.37	1.03	8230-58
39.00	45	2.5	180	M8188-ND◊	1.37	1.03	8230-58-RC
47.00	45	2.5	165	M8033-ND	1.37	1.03	8230-60
47.00	45	2.5	165	M8189-ND◊	1.37	1.03	8230-60-RC
56.00	45	2.5	145	M8034-ND	1.37	1.03	8230-62
56.00	45	2.5	145	M8190-ND◊	1.37	1.03	8230-62-RC
68.00	50	2.5	135	M8035-ND	1.37	1.03	8230-64
68.00	50	2.5	135	M8191-ND◊	1.37	1.03	8230-64-RC
82.00	50	2.5	130	M8036-ND	1.37	1.03	8230-66
82.00	50	2.5	130	M8192-ND◊	1.37	1.03	8230-66-RC
100.00	50	2.5	125	M8037-ND	1.37	1.03	8230-68
100.00	50	2.5	125	M8193-ND◊	1.37	1.03	8230-68-RC
120.00	30	.79	97	M8038-ND	1.37	1.03	8230-70
120.00	30	.79	97	M8194-ND◊	1.37	1.03	8230-70-RC
150.00	30	.79	85	M8195-ND◊	1.37	1.03	8230-72-RC
180.00	30	.79	79	M8040-ND	1.37	1.03	8230-74
180.00	30	.79	79	M8196-ND◊	1.37	1.03	8230-74-RC
220.00	30	.79	73	M8041-ND	1.37	1.03	8230-76
220.00	30	.79	73	M8197-ND◊	1.37	1.03	8230-76-RC
270.00	30	.79	65	M8042-ND	1.46	1.10	8230-78
270.00	30	.79	65	M8198-ND◊	1.46	1.10	8230-78-RC
330.00	30	.79	62	M8043-ND	1.46	1.10	8230-80
330.00	30	.79	62	M8199-ND◊	1.46	1.10	8230-80-RC
390.00	30	.79	55	M8044-ND	1.46	1.10	8230-82
390.00	30	.79	55	M8200-ND◊	1.46	1.10	8230-82-RC
470.00	30	.79	50	M8201-ND◊	1.46	1.10	8230-84-RC
560.00	30	.79	48	M8046-ND	1.46	1.10	8230-86
560.00	30	.79	48	M8202-ND◊	1.46	1.10	8230-86-RC
680.00	30	.79	42	M8047-ND	1.46	1.10	8230-88
680.00	30	.79	42	M8203-ND◊	1.46	1.10	8230-88-RC
820.00	30	.79	40	M8048-ND	1.65	1.24	8230-90
820.00	30	.79	40	M8204-ND◊	1.65	1.24	8230-90-RC
1,000.00	30	.79	38	M8049-ND	1.65	1.24	8230-92
1,000.00	30	.79	38	M8205-ND◊	1.65	1.24	8230-92-RC

◊ ***RoHS Compliant***

Wide-Band Chokes

Dim. in mm.

Fig. 1

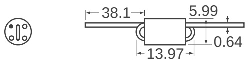

Fig. 2

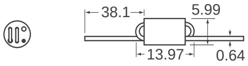

Fig. 3

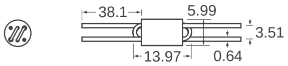

Fig.	No. of Turns	Min. Z (Ω)	Freq. (MHz)	Digi-Key Part No.	Price Each 1	10	J.W.Miller Part No.
1	1 1/2	225	10	M8693-ND◊	.75	.60	FB20009-3B-RC
		175	10	M8696-ND◊	.75	.60	FB20019-4B-RC
2	2 1/2	460	10	M8694-ND◊	.85	.68	FB20010-3B-RC
		30	10	M8697-ND◊	.85	.68	FB20020-4B-RC
3	2 x 1 1/2	215	10	M2113-ND	.95	.76	FB20011-3B
		215	10	M8695-ND◊	.95	.76	FB20011-3B-RC
		175	10	M2214-ND	.95	.76	FB20021-4B
		175	10	M8698-ND◊	.95	.76	FB20021-4B-RC

◊ ***RoHS Compliant***

Ferrite Beads

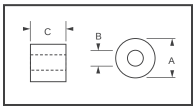

The addition of a Ferrite Bead to a piece of wire causes the impedance of the lead to increase and acts like a small RF choke at high frequencies. It is possible to dissipate high frequency parasitic signals and attenuate undesirable frequencies that travel on DC circuits by the use of beads.

Freq. Range	Dim. (mm) A	B	C	Digi-Key Part No.	Pricing 1	10	J.W.Miller Part No.
0-40 MHz	1.32	.69	2.16	M8699-ND◊	.30	2.40	FB73-085-RC
40-200 MHz	3.12	1.02	5.61	M8700-ND◊	.18	1.40	FB43-226-RC
0-40 MHz	3.18	1.02	5.61	M2303-ND	.30	2.40	FB73-226
0-40 MHz	3.18	1.02	5.61	M8701-ND◊	.30	2.40	FB73-226-RC
40-200 MHz	3.18	1.02	2.87	M8702-ND◊	.18	1.40	FB43-110-RC
200+ MHz	3.18	1.02	2.87	M2305-ND	.18	1.40	FB64-110
200+ MHz	3.18	1.02	2.87	M8703-ND◊	.18	1.40	FB64-110-RC
0-40 MHz	3.12	1.02	2.87	M2306-ND	.20	1.60	FB73-110
0-40 MHz	3.12	1.02	2.87	M8704-ND◊	.20	1.60	FB73-110-RC
40-200 MHz	4.70	1.27	10.46	M2307-ND	.30	2.40	FB43-422
40-200 MHz	4.70	1.27	10.46	M8705-ND◊	.27	2.16	FB43-422-RC
0-40 MHz	4.70	1.27	10.46	M2308-ND	.25	2.00	FB73-422
0-40 MHz	4.70	1.27	10.46	M8706-ND◊	.25	2.00	FB73-422-RC
40-200 MHz	7.14	2.13	7.16	M2309-ND	.25	2.00	FB43-287
40-200 MHz	7.14	2.13	7.16	M8707-ND◊	.25	2.00	FB43-287-RC
0-40 MHz	7.14	2.13	7.16	M2310-ND	.25	2.00	FB73-28
0-40 MHz	7.14	2.13	7.16	M8708-ND◊	.25	2.00	FB73-287-RC

◊ ***RoHS Compliant***

High Current Ferrite Beads

Dim. in mm.

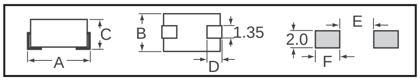

	A	B	C	D	E	F
PM2001	3.6	2.5	2.30	1.15	0.8	2.2
PM2002	4.6	3.1	2.84	1.35	1.0	2.5
PM2003	9.1	3.1	2.84	1.35	4.5	3.0

Features: • High current capacity up to 5A • Low DC resistance • Multiple sizes available • Low cost • **Operating Temperature:** -55°C ~ 125°C

Z (Ω) ±25% @ 25MHz	DCR (Ω) Max.	Digi-Key Part No.	Cut Tape Pricing 10	50	J.W.Miller Part No.
20	0.0005	M1331CT-ND	2.51	10.33	PM2001-200
		M1331TR-ND	118.00/1,000		
20	0.0005	M8690CT-ND◊	2.51	10.33	PM2001-200-RC
		M8690TR-ND◊	97.35/1,000		
30	0.0006	M8691CT-ND◊	1.28	5.25	PM2002-300-RC
		M8691TR-ND◊	24.75/500		
60	0.0009	M8692CT-ND◊	1.66	6.83	PM2003-600-RC
		M8692TR-ND◊	32.18/500		

◊ ***RoHS Compliant***

Epoxy Conformal Coated Inductors

Dim. in mm

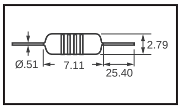

- **Operating Temperature:** -55°C ~ 105°C
- **Working Voltage:** 250VDC maximum
- **Material:** Coating-Epoxy Leads-Tinned Copper • **Core Material:** Ferrite

L± 20% (µH)	Q Min.	Test Freq. (MHz)	I, dc Max. (mA)	Digi-Key Part No.	Price Each 1	10	J.W. Miller Part No.
.10	40	25.0	500	M7801-ND	.54	.44	78FR10M
.12	40	25.0	500	M7802-ND	.54	.44	78FR12M
.15	40	25.0	500	M7803-ND	.54	.44	78FR15M
.18	40	25.0	450	M7804-ND	.54	.44	78FR18M
.22*	40	25.0	1025	M7805-ND	.54	.44	78FR22K
.27*	40	25.0	950	M7806-ND	.54	.44	78FR27K
.33*	40	25.0	815	M7807-ND	.54	.44	78FR33K
.39*	40	25.0	700	M7808-ND	.54	.44	78FR39K
.56*	40	25.0	545	M7810-ND	.54	.44	78FR56K
.68*	40	25.0	495	M7811-ND	.54	.44	78FR68K
.82*	40	25.0	415	M7812-ND	.54	.44	78FR82K
1.2*	40	7.9	590	M7814-ND	.54	.44	78F1R2K
1.5*	45	7.9	535	M7815-ND	.54	.44	78F1R5K
1.8*	50	7.9	455	M7816-ND	.54	.44	78F1R8K
2.2*	50	7.9	395	M7817-ND	.54	.44	78F2R2K
2.7*	50	7.9	355	M7818-ND	.54	.44	78F2R7K
4.7†	45	7.9	230	M7821-ND	.54	.44	78F4R7J
6.8†	40	7.9	175	M7823-ND	.54	.44	78F6R8J
10†	40	2.5	130	M7825-ND	.54	.44	78F100J
15†	50	2.5	150	M7827-ND	.54	.44	78F150J
18†	50	2.5	145	M7828-ND	.54	.44	78F180J
22†	50	2.5	140	M7829-ND	.54	.44	78F220J
39†	50	2.5	185	M7832-ND	.54	.44	78F390J
56†	60	2.5	150	M7834-ND	.54	.44	78F560J
68†	60	2.5	137	M7835-ND	.54	.44	78F680J
82†	60	2.5	132	M7836-ND	.54	.44	78F820J
100†	60	2.5	125	M7837-ND	.54	.44	78F101J
120†	60	0.79	100	M7838-ND	.54	.44	78F121J
180†	60	0.79	84	M7840-ND	.54	.44	78F181J
220†	60	0.79	76	M7841-ND	.54	.44	78F221J
270†	60	0.79	70	M7842-ND	.54	.44	78F271J
330†	60	0.79	65	M7843-ND	.54	.44	78F331J
390†	60	0.79	60	M7844-ND	.54	.44	78F391J
560†	60	0.79	51	M7846-ND	.54	.44	78F561J
560†	60	0.79	51	M8155-ND◊	.54	.44	78F561J-RC
680†	60	0.79	45	M7847-ND	.54	.44	78F681J
680†	60	0.79	45	M8156-ND◊	.54	.44	78F681J-RC
820†	60	0.79	43	M8157-ND◊	.30	.24	78F821J-RC
1000†	60	0.79	41	M8158-ND◊	.30	.24	78F102J-RC

◊ ***RoHS Compliant***
* Rated at L ± 10% µH. † Rated at L ± 5% µH.

J.W.Miller MAGNETICS EMI Filters (For Electromagnetic Interference)

Applications:
- Communication equipment, cordless phones, automotive phones
- Digital audio and video equipment
- Electronic automotive equipment such as engine controls, panels and audio systems
- Electronic musical instruments and other digital devices

Specifications:
- Rated Current: 5A
- Rated Voltage: 50VDC
- DCR: 0.05Ω maximum
- Insulation Resistance: 10GΩ minimum @ 50VDC
- HI-Pot: 125VDC
- Operating Temperature -25°C ~ 85°C

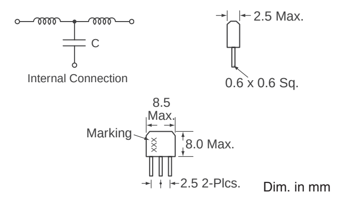

Cap. ±20% (pF)	25dB AH. Frequency (MHz)	15dB AH. Frequency (MHz)	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape & Box Pricing 2,000	J.W. Miller Part No.
22	800	220 ~ 800	M9936CT-ND	.48	.43	M9936TB-ND	142.50/M	EMI220T-LC
47	550 ~ 700	350 ~ 800	M9938CT-ND	.48	.43	M9938TB-ND	142.50/M	EMI470T-LC
100	350 ~ 500	200 ~ 800	M9941CT-ND	.48	.43	M9941TB-ND	142.50/M	EMI101T-LC
220	200 ~ 350	100 ~ 800	M9939CT-ND	.48	.43	M9939TB-ND	142.50/M	EMI221T-LC
270	200 ~ 300	80 ~ 800	M9940CT-ND	.48	.43	M9940TB-ND	142.50/M	EMI271T-LC
470	120 ~ 300	50 ~ 800	M9937CT-ND	.48	.43	M9937TB-ND	142.50/M	EMI471T-LC
1000	70 ~ 200	30 ~ 800	M9934CT-ND	.48	.43	M9934TB-ND	142.50/M	EMI102T-LC
2200	45 ~ 200	20 ~ 800	M9942CT-ND	.48	.43	M9942TB-ND	142.50/M	EMI222T-LC
10,000	15 ~ 200	6 ~ 800	M9935CT-ND†	.48	.43	M9935TB-ND†	142.50/M	EMI103T-LC

† Capacitance Tolerance: -20%, 80%

TDK RF Balun Transformers HHM Series - Surface Mount

Features: These products are intended for wireless LAN (Local Area Network) applications.

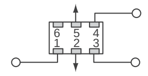

Pin Configuration
1 Unbalanced Port
2 GND or DC Feed + RF GND
3 Balanced Port
4 Balanced Port
5 GND
6 NC

Fig. 1

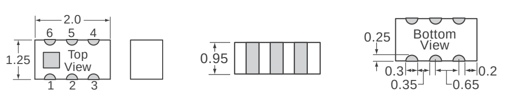

Fig. 2

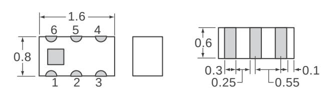

Fig.	Application	Operating Frequency (MHz)	Impedance In/Out (Ω)	Insertion Loss-max. (dB)	Difference of Phase (deg.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	TDK Part No.
1	Bluetooth and IEEE802.11b/g	2400 ~ 2500	50/50	1.2	180 ± 10	445-1233-1-ND	2.05	1.54	1.03	445-1233-2-ND	635.19/M	HHM1517
	Bluetooth and IEEE802.11b/g	2400 ~ 2500	50/100	1.0	180 ± 10	445-1234-1-ND	2.05	1.54	1.03	445-1234-2-ND	635.19/M	HHM1520
	Bluetooth and IEEE802.11b/g	2400 ~ 2500	50/200	1.0	180 ± 10	445-1229-1-ND	2.05	1.54	1.03	445-1229-2-ND	635.19/M	HHM1521
	Wideband-LAN	4900 ~ 5950	50/100	1.0	180 ± 10	445-1231-1-ND	2.05	1.54	1.03	445-1231-2-ND	635.19/M	HHM1570B1
	Wideband-LAN	5150 ~ 5875	50/100	1.0	180 ± 10	445-1230-1-ND	2.05	1.54	1.03	445-1230-2-ND	635.19/M	HHM1562B
2	Bluetooth and IEEE802.11b/g	2400 ~ 2500	50/100	1.2	180 ± 10	445-1232-1-ND	2.05	1.54	1.03	445-1232-2-ND	635.19/M	HHM1711D1

Pulse® A TECHNITROL COMPANY RF Wide Band Balun Transformers

The Pulse balun transformer offers an excellent insertion loss device in a low cost SMT format. The RF Baluns are ideal for balanced to unbalanced applications and have been designed for applications such as CATV Distribution/Drop Amplifiers, Set Top Boxes and Home Gateways.

Operating Temperature: -40°C ~ 85°C

Pulse Part No.	Dimensions (Inches) L	W	H
CX2024	0.202 (±.015)	0.204 (±.015)	0.14 (Max.)
CX2045L	0.15 (±.015)	0.15 (+.02/-.015)	0.11 (±.015)
CX2156	0.169 (±.004)	0.209 (±.004)	0.118 (+.018/-.012)
CX2147	0.272 (Max.)	0.272 (Max.)	0.173 (Max.)
CX2032	0.36 (Max.)	0.265 (Max.)	0.098 (Max.)

Fig. 1

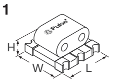

Fig. 2

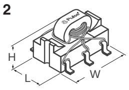

Fig. 3

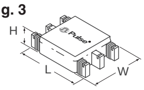

Schem. 1

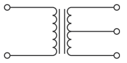

Schem. 2

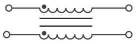

Fig.	Schematic	Impedance Ratio (+ -2%) Primary:Secondary	Turns Ratio (+ -2%) Primary:Secondary	Bandwidth (MHz Typ) Midband Loss	Insertion Loss (dB Typ)	Digi-Key Part No.	Price Each 1	10	100	500	Pulse Part No.
1	2	1:1	1:1	10 - 1000	0.4	553-1050-ND	1.80	1.12	.82	.72	CX2024
	1	1:2CT*	1:1.4CT*	3 - 300	0.8	553-1052-ND	2.04	1.27	.93	.82	CX2045L
2	2	1:1	1:1	2.3 - 2700	0.2	553-1051-ND	2.04	1.27	.93	.82	CX2156
	1	1:1CT*	1:1CT*	5 - 200	0.3	553-1053-ND	1.84	1.14	.84	.74	CX2147
3	1	1:4CT*	1:2CT*	5 - 165	0.6	553-1054-ND	2.44	1.59	1.22	1.08	CX2032

*Note: CT indicates Center Tap.

TOKO Balun Transformers

Toko's high quality balun (balanced/unbalanced) transformers are precisely wound around a double ferrite core. Toko's baluns are ideally suited for designing double balanced mixers, directional couplers, signal splitters, signal distributors, and impedance matching circuits.

Fig. 1

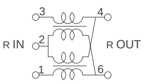

Fig. 2

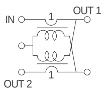

Type B5F
SMD

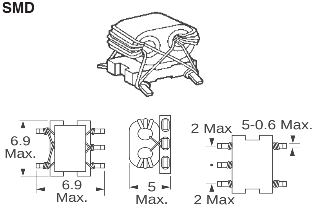

Type B7T
Leaded

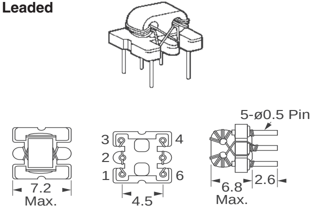

Fig.	Winding	Operating Frequency Range	Insertion Loss	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Toko Part No.
			Type B5F – Surface Mount							
1	n = 1	50MHz ~ 400MHz	10dB Maximum	TKS2514CT-ND	2.89	2.58	1.87	TKS2514TR-ND	1610.00	458DB-1012
	n = 2	400MHz ~ 1.3GHz	4dB Maximum	TKS2511CT-ND	2.89	2.58	1.87	—	—	458DB-1005
			Type B7T – Leaded							
2	n = 6	6MHz ~ 600MHz	IN to OUT-1 0.8dB Maximum; IN to OUT-2 15dB ~ 17dB	TK2516-ND	5.55	4.35	2.59	—	—	456PS-1011

Panasonic® Hybrid Passive RF/Microwave Devices

Note: All drawings are top view.

These components are suited for Mobile Phones (Handsets/Base Stations), Navigation Devices (GPS), Pagers, Mobile Computing (PCs and PDAs), Mobile Data Terminals, Wireless Microphones, Cordless Phones and Wireless Local Area Network (WLAN) applications.

SPECIFICATIONS: • Operating Temperature: -30°C ~ 85°C **• Soldering:** 230°C for 5 seconds

BALUN: Ultra small, thin, high precision, with ultra-fine geometry baluns to meet your single-ended to double-ended to electronic circuitry interface requirements. **Application:** Single/Double Ended Mixer, Differential Amp, Matching.

DIRECTIONAL COUPLER: Miniaturized, high coupling efficiency, low-cost, with ultra-fine geometry directional couplers to meet your most demanding coupling needs. **Application:** To control transmitted power.

DIRECTIONAL COUPLER with LC FILTER: A directional coupler having the above same features and benefits, but also incorporating an LC Filter. **Application:** To control transmitted power while suppressing spurious noise.

POWER DIVIDER: Miniaturized, high efficiency/low-loss, with ultra-fine geometry, three port power divider to meet your circuitry power handling requirements. **Application:** To divide internal signals (ex. VCO).

Fig. 1

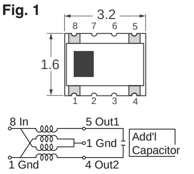

Fig. 2

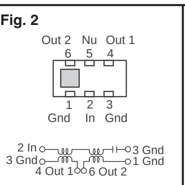

Fig. 3

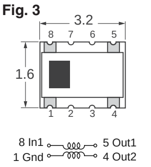

Fig. 4

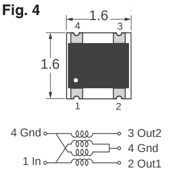

Fig. 5

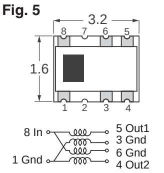

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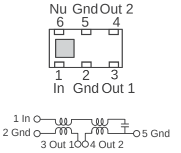

Fig. 7

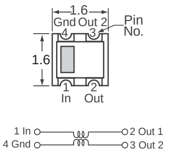

Fig. 8

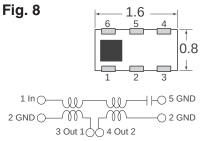

Fig. 9

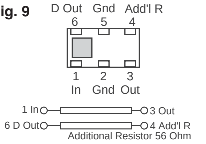

Fig. 10

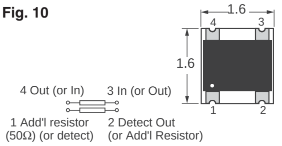
1.6
4 3
1.6
1 2
4 Out (or In)
3 In (or Out)
1 Add'l resistor (50Ω) (or detect)
2 Detect Out (or Add'l Resistor)

Fig. 11

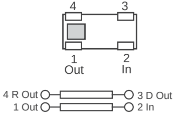

Fig. 12

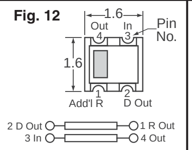

Fig. 13

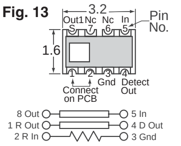

Fig. 14

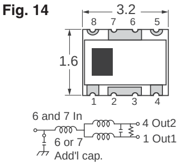

In 6 pin and In 7 pin connected on PCB

Fig. 15

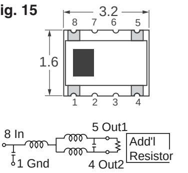

Fig. 16

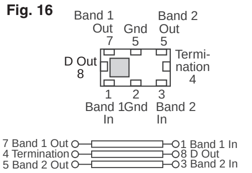

Fig. 17

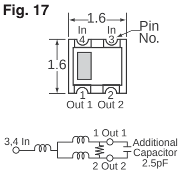

Fig. 18

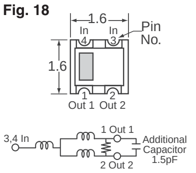

Fig. 19

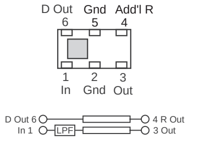

Fig.	Description	Operating Frequency (Mhz)	Impedance In/Out (ohms)	Insertion Loss (max.)	Difference of Phase (deg.)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel*		Panasonic Part No.
								1	10	100	Size	Pricing	
1	Balun	380~430	50/200	1dB	180±15	3.2 x 1.6	P10702CT-ND	1.89	1.58	1.26	500	472.08	EHF-FD1617
2	Balun	1700~1900	50/50	.8dB	180±10	3.2 x 1.6	P12025CT-ND	1.81	1.51	1.21	—	—	EHF-1BD1800
		1700~1900	50/100	.8dB	180±10	3.2 x 1.6	P12026CT-ND	1.81	1.51	1.21	—	—	EHF-1BE1800
		880~960	50/200	.8dB	180±10	3.2 x 1.6	P12027CT-ND	1.81	1.51	1.21	—	—	EHF-1BG0920
		1700~1900	50/200	.8dB	180±10	3.2 x 1.6	P12028CT-ND	1.81	1.51	1.21	3,000	905.52/M	EHF-1BG1800
3	Balun	880~960	50/50	1dB	180±15	3.2 x 1.6	P10705CT-ND	1.71	1.43	1.14	500	426.72	EHF-FD1618
		1700~2000	50/50	.8dB	180±15	3.2 x 1.6	P10708CT-ND	1.71	1.43	1.14	—	—	EHF-FD1619
4	Balun	824~894	50/200	1dB	180±15	1.6 x 1.6	P10703CT-ND	1.89	1.58	1.26	4,000	837.16/M	EHF-FD1622
		880~960	50/200	2dB	180±15	1.6 x 1.6	P10706CT-ND	1.89	1.58	1.26	4,000	837.16/M	EHF-FD1620
5	Balun	1700~1900	50/200	1dB	180±15	3.2 x 1.6	P10711-ND†	1.71	1.43	1.14	—	—	EHF-FD1626
6	Balun	1700~1900	50/50	1.0dB	180±15	2.0 x 1.25	P12029CT-ND	1.81	1.51	1.21	—	—	EHF-2BD1800
		1920~2170	50/50	1.0dB	180±15	2.0 x 1.25	P12030CT-ND	1.81	1.51	1.21	—	—	EHF-2BD2060
		2400~2500	50/50	1.0dB	180±15	2.0 x 1.25	P12031CT-ND	1.81	1.51	1.21	—	—	EHF-2BD2450
		880~960	50/100	1.0dB	180±15	2.0 x 1.25	P12032CT-ND	1.81	1.51	1.21	—	—	EHF-2BE0920
		1700~1900	50/100	1.0dB	180±15	2.0 x 1.25	P12033CT-ND	1.81	1.51	1.21	—	—	EHF-2BE1800
		1920~2170	50/100	1.0dB	180±15	2.0 x 1.25	P12034CT-ND	1.81	1.51	1.21	—	—	EHF-2BE2060
		2400~2500	50/100	1.0dB	180±15	2.0 x 1.25	P12035CT-ND	1.81	1.51	1.21	500	452.76	EHF-2BE2450
		1700~1900	50/200	1.0dB	180±15	2.0 x 1.25	P12037CT-ND	1.81	1.51	1.21	—	—	EHF-2BG1800
		1920~2170	50/200	1.0dB	180±15	2.0 x 1.25	P12038CT-ND	1.81	1.51	1.21	—	—	EHF-2BG2060
		2400~2500	50/200	1.0dB	180±15	2.0 x 1.25	P12039CT-ND	1.81	1.51	1.21	500	452.76	EHF-2BG2450
		3400~4000	50/100	1.0dB	180±20	2.0 x 1.25	P12041CT-ND	1.81	1.51	1.21	—	—	EHF-FD1755T
7	Balun	1700~2000	50/50	.8dB	180±10	1.6 x 1.6	P12040CT-ND	1.81	1.51	1.21	500	452.76	EHF-FD1629
8	Balun	5150~5350	50/100	1.2dB	180±15	1.6 x 0.8	P12428CT-ND	4.80	4.01	3.21	—	—	EHF-4BE5250

Fig.	Description	Operating Frequency (Mhz)	Coupling Factor (dB)	Insertion Loss (max.)	Isolation (min.)	Voltage Standing Wave Ratio (max.)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel*		Panasonic Part No.
									1	10	100	Size	Pricing	
9	Directional Coupler	850~950	14.5±1	.3dB	25dB	1.3	2.0 x 1.25	P12042CT-ND	1.53	1.28	1.02	500	381.36	EHF-2CM0900
		1710~1785	14±1	.35dB	22dB	1.3	1.6 x .8	P12043CT-ND	1.53	1.28	1.02	—	—	EHF-4CM1747
10	Directional Coupler	800~1000	17±2	.30dB	24dB	1.3	1.6 x 1.6	P10684CT-ND	1.62	1.35	1.08	4,000	717.99/M	EHF-FD1540
		1850~1950	14±2	.40dB	19dB	1.3	1.6 x 1.6	P10691CT-ND	1.62	1.35	1.08	4,000	717.99/M	EHF-FD1541
11	Directional Coupler	1710~1910	17±1.5	.25dB	27dB	1.3	1.6 x .8	P12044CT-ND	1.53	1.28	1.02	—	—	EHF-4CQ1810
		820~850	20±1	.25dB	30dB	1.3	1.6 x .8	P12045CT-ND	1.53	1.28	1.02	—	—	EHF-4CT0835
12	Directional Coupler	1850~1950	20±1	.3dB	26dB	1.3	1.6 x 1.6	P12046CT-ND	1.53	1.28	1.02	—	—	EHF-FD1542
		1850~1950	17±1	.3dB	23dB	1.3	1.6 x 1.6	P12047CT-ND	1.53	1.28	1.02	500	381.36	EHF-FD1548
13	Direc. Coupler	800~1000	14±2	.4dB	20dB	1.3	3.2 x 1.6	P12048CT-ND	1.53	1.28	1.02	500	381.36	EHF-FD1556
16	Dual Directional	880~915	19±2	.35dB	24dB	1.5	2.0 x 1.25	P12049CT-ND	1.53	1.28	1.02	500	381.36	EHF-FD1812D
		1710~1785	14±1.5	.45dB	17dB	1.5								
		880~915	14±1	.45dB	18dB	1.5	2.0 x 1.25	P12050CT-ND	1.53	1.28	1.02	—	—	EHF-FD1824
		1710~1785	14±1	.45dB	18dB	1.5								

Fig.	Description	Operating Frequency (Mhz)	Coupling Factor (dB)	Insertion Loss (max.)	2FO Attenuation (min.)	3FO Attenuation (min.)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel*		Panasonic Part No.
									1	10	100	Size	Pricing	
19	Direc. Coupler with Filter	880~915	20±1	.45d	22dB	17dB	2.0 x 1.25	P12051CT-ND	1.81	1.51	1.21	—	—	EHF-FD1728
		1710~1785	20±1	.45d	22dB	17dB	2.0 x 1.25	P12052CT-ND	1.81	1.51	1.21	500	452.76	EHF-FD1729

Fig.	Description	Operating Frequency (Mhz)	Insertion Loss (max.)	Isolation (min.)	Voltage Standing Wave Ratio (max.)	Size (mm)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel*		Panasonic Part No.
								1	10	100	Size	Pricing	
14	Power Divider	720~760	4.0dB	18dB	1.8	3.2 x 1.6	P10715-ND†	2.02	1.69	1.35	—	—	EHF-FD1502
15	Power Divider	981~1008	4.0dB	18dB	2.1	3.2 x 1.6	P10716-ND†	2.02	1.69	1.35	—	—	EHF-FD1508
		1546~1630	4.0dB	18dB	1.9	3.2 x 1.6	P10717CT-ND	1.93	1.61	1.29	4,000	856.52/M	EHF-FD1503
		1607~1685	4.0dB	18dB	1.6	3.2 x 1.6	P10718-ND†	1.93	1.61	1.29	—	—	EHF-FD1506
		1880~1920	4.0dB	18dB	1.6	3.2 x 1.6	P10720-ND†	1.93	1.61	1.29	—	—	EHF-FD1507
		2043~2104	4.0dB	18dB	1.6	3.2 x 1.6	P10721-ND†	1.93	1.61	1.29	—	—	EHF-FD1509
17	Power Divider	1607~1685	4dB	18dB	2.1	1.6 x 1.6	P12053CT-ND	1.53	1.28	1.02	500	381.36	EHF-FD1495
18	Power Divider	945~979	4dB	18dB	2.1	1.6 x 1.6	P12054CT-ND	1.53	1.28	1.02	—	—	EHF-FD1779

† Bulk Package * For Tape and Reel part number, change CT-ND to TR-ND.

TOKO Helical Filters

Examples of Connection Diagrams — Bottom View

Fig. 1 — 5CHW Type – Surface Mount

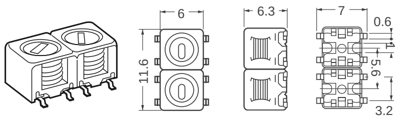

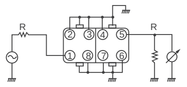

Fig. 2 — 5CHT Type – Surface Mount

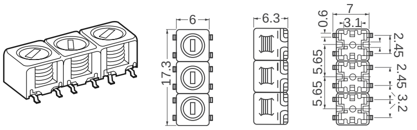

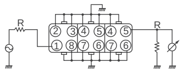

Fig. 3 — 5CHLW Type – Surface Mount

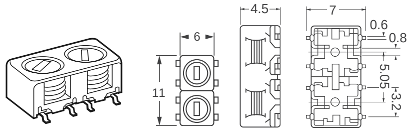

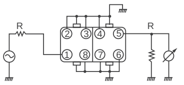

Fig. 4 — 5HW Type

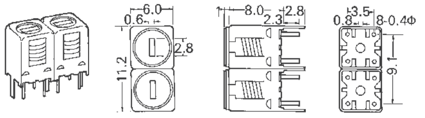

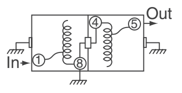

Fig. 5— 5HT Type

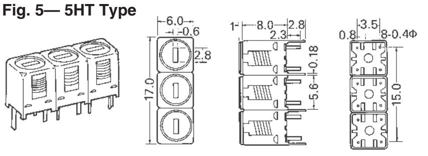

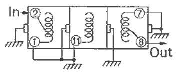

Fig. 6 — 7HW Type

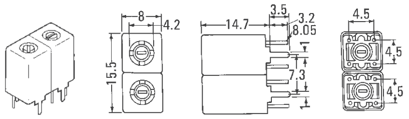

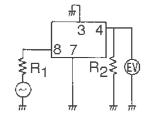

Fig. 7 — 7HT Type

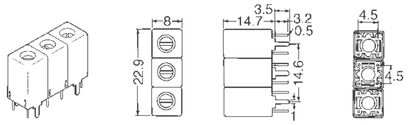

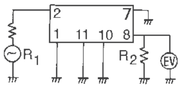

Fig. 8 — CBW Type

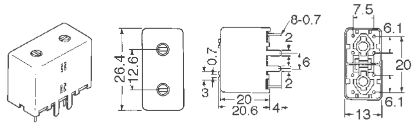

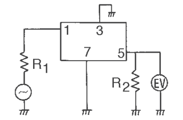

Fig. 9 — CBT Type

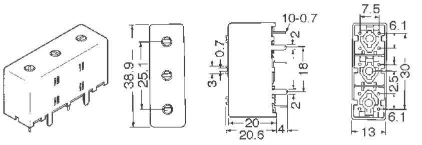

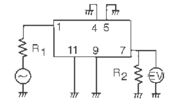

Test /Bw Freq./Min. (MHz)/(MHz)	Selectivity (Min.) dB (MHz) dB (MHz)	Ripple/ Loss dB / dB	Digi-Key Part No.	Cut Tape Pricing 1	10	Digi-Key Part No.	Tape & Reel Pricing	Toko Part No.
Fig. 1 — 5CHW TYPE – Surface Mount								
420 / 10	20 (+50) 14 (–50)	0.5 / 3.0	TKS5440CT-ND	19.90	159.20	—	—	492S-1051A
427 / 10	20 (+50) 14 (–50)	0.5 / 3.0	TKS5441CT-ND	19.90	159.20	TKS5441TR-ND	8932.50/750	492S-1053A
435 / 10	20 (+50) 14 (–50)	0.5 / 3.5	TKS5442CT-ND	19.90	159.20	—	—	492S-1055A
450 / 10	17 (+50) 12 (–50)	0.5 / 3.5	TKS5443CT-ND	19.90	159.20	—	—	492S-1057A
456 / 10	16 (+50) 12 (–50)	0.5 / 3.5	TKS5444CT-ND	19.90	159.20	TKS5444TR-ND	8932.50/750	492S-1059A
463.5 / 10	16 (+50) 12 (–50)	0.5 / 3.5	TKS5445CT-ND	19.90	159.20	—	—	492S-1061A
470 / 10	15 (+50) 12 (–50)	0.5 / 3.5	TKS5446CT-ND	19.90	159.20	TKS5446TR-ND	5970.00/750	492S-1063A
Fig. 2 — 5CHT TYPE – Surface Mount								
395 / 10	33 (+50) 33 (–50)	0.5 / 4.5	TKS5448CT-ND	27.25	218.00	—	—	493S-1066A
425 / 10	30 (+50) 30 (–50)	0.5 / 4.5	TKS5450CT-ND	27.25	218.00	TKS5450TR-ND	10218.75/750	493S-1068A
430 / 10	30 (+50) 30 (–50)	0.5 / 4.5	TKS5451CT-ND	27.25	218.00	TKS5451TR-ND	10218.75/750	493S-1069A
440 / 10	27 (+50) 27 (–50)	0.5 / 4.5	TKS5452CT-ND	27.25	218.00	—	—	493S-1071A
452 / 10	27 (+50) 27 (–50)	0.5 / 4.5	TKS5453CT-ND	27.25	218.00	TKS5453TR-ND	10218.75/750	493S-1073A
Fig. 3 — 5CHLW TYPE – Surface Mount								
836 / 23	14 (+100) 22 (–100)	1.5 / 4.0	TKS5432CT-ND	13.17	104.23	—	—	477MS-1093A
881 / 23	12 (+100) 19 (–100)	1.0 / 3.5	TKS5435CT-ND	13.17	104.23	—	—	477MS-1094A
902.5 / 25	18 (+100) 24 (–100)	1.0 / 2.5	TKS5436CT-ND	20.90	167.20	—	—	477MS-1034A
915 / 25	18 (+100) 25 (–100)	1.0 / 2.5	TKS5437CT-ND	20.90	167.20	TKS5437TR-ND	5800.00/1000	477MS-1035A
933 / 25	18 (+100) 25 (–100)	1.0 / 2.5	TKS5438CT-ND	20.90	167.20	TKS5438TR-ND	5800.00/1000	477MS-1036A

Test / Bw Freq. / Min. (MHz) / (MHz)	Selectivity (Min.) dB (MHz) dB (MHz)	Ripple/ Loss dB / dB	Digi-Key Part No.	Pricing 1	10	50	Toko Part No.
Fig. 4 — 5HW Type							
365 / 6	20 (–50) 25 (+50)	1.0 / 4.5	TK5414-ND	26.05	208.40	989.90	5HW-35045A-365
475 / 8	18 (–50) 22 (+50)	1.0 / 4.5	TK5415-ND	26.05	208.40	989.90	5HW-44545A-475
530 / 10	16 (–50) 20 (+50)	1.0 / 4.5	TK5416-ND	26.05	208.40	989.90	5HW-51035A-530
700 / 16	23 (–100) 26 (+100)	1.0 / 3.5	TK5418-ND	26.05	208.40	989.90	5HW-68050A-700
820 / 16	22 (–100) 24 (+100)	1.0 / 3.5	TK5419-ND	26.05	208.40	989.90	5HW-78045A-820
1010 / 16	14 (–100) 18 (+100)	1.0 / 3.5	TK5421-ND	26.05	208.40	989.90	5HW-100090A-1010
1305 / 25	18 (–100) 20 (+100)	1.0 / 3.5	TK5423-ND	26.05	208.40	989.90	5HW-125055F-1305
425 / 7	20 (–50) 25 (+50)	1.0 / 4.5	TK5424-ND	26.05	208.40	989.90	5HW-39545A-425
Fig. 5 — 5HT Type							
360 / 16	33 (+50) 25 (–50)	1.0 / 4.0	TK5401-ND	23.70	189.60	900.60	5HT-36020AS-360
440 / 14	28 (+50) 25 (–50)	1.0 / 4.0	TK5403-ND	23.70	189.60	900.60	5HT-44020AS-440
480 / 14	26 (+50) 22 (–50)	1.0 / 4.0	TK5404-ND	23.70	189.60	900.60	5HT-48030AS-480
515 / 16	25 (+50) 20 (–50)	1.0 / 4.0	TK5405-ND	23.70	189.60	900.60	5HT-51535AS-515
590/12	34 (+50) 25 (–50)	1.0 / 4.0	TK5406-ND	23.70	189.60	900.60	5HT-59065F-590
655 / 12	30 (+50) 26 (–50)	1.0 / 4.0	TK5407-ND	23.70	189.60	900.60	5HT-65550F-655
735 / 15	28 (+50) 24 (–50)	1.0 / 4.0	TK5408-ND	23.70	189.60	900.60	5HT-73565F-735
830 / 15	26 (+50) 22 (–50)	1.0 / 4.0	TK5409-ND	23.70	189.60	900.60	5HT-83050F-830
1010 / 15	18 (+50) 14 (–50)	1.0 / 4.0	TK5411-ND	23.70	189.60	900.60	5HT-101045F-1010
Fig. 6 — 7HW Type							
405 / 9	20 (–10) 15 (+10)	1.5 / 3.5	TK3301-ND	20.45	163.60	777.10	252MXPR-2535A
435 / 10.5	17 (–5) 14 (+15)	1.5 / 3.0	TK3302-ND	20.45	163.60	777.10	252MXPR-2537A
453 / 11.5	16 (–3) 13 (+7)	1.5 / 2.5	TK3303-ND	20.45	163.60	777.10	252MXPR-2767A
480 / 12.5	14 (–10) 11 (+10)	1.5 / 2.5	TK3305-ND	10.23	92.03	409.00	252MXPR-2765A
550 / 7	23 (–10) 20 (+15)	1.5 / 3.5	TK3307-ND	10.23	92.03	409.00	252HXPK-2736F
600 / 8	23 (–5) 21 (+15)	1.5 / 3.5	TK3308-ND	20.45	163.60	777.10	252HXPK-2733F
830 / 13.5	20 (–35) 18 (+10)	1.5 / 3.0	TK3311-ND	20.45	163.60	777.10	252HXPK-2774F
870 / 14	19 (–30) 16 (+15)	1.5 / 3.0	TK3312-ND	20.45	163.60	777.10	252HXPK-2770F
Fig. 7 — 7HT Type							
880 / 20	16 (–40) 10 (+40)	2.0 / 3.0	TK3404-ND	28.65	229.20	1088.70	302HXPK-1339D1
835 / 23	33 (–75) 10 (+35)	0.5 / 3.0	TK3403-ND	28.65	229.20	1088.70	302HXPK-1328D1
1015 / 20	20 (–40) 16 (+40)	2.0 / 4.0	TK3406-ND	28.65	229.20	1088.70	302HXPK-1271B
813 / 17	23 (–50) 16 (+50)	0.5 / 3.0	TK3409-ND	28.65	229.20	1088.70	302HXPK-1341D1
456 / 4.5	29 (–20) 22 (+20)	0.5 / 5.0	TK3410-ND	28.65	229.20	1088.70	302HXPK-1035D
433 / 7.2	23 (–15) 17 (+15)	0.5 / 5.0	TK3411-ND	28.65	229.20	1088.70	302HXPK-1354D1
Fig. 8 — CBW Type							
220 / 2.0	20 (–15) 18 (+15)	0.5 / 3.0	TK3601-ND	32.25	258.00	1225.50	271MT-1166A
138 / 2.2	20 (–15) 18 (+10)	1.0 / 2.5	TK3606-ND	16.13	145.13	645.00	271MT-1134A
167 / 2.4	19 (–10) 17 (+10)	1.0 / 2.5	TK3605-ND	32.25	258.00	1225.50	271MT-1136A
187 / 2.8	15 (–10) 14 (+10)	1.0 / 2.5	TK3603-ND	32.25	258.00	1225.50	271MT-1143A
216 / 3.0	15 (–10) 14 (+10)	1.0 / 3.0	TK3602-ND	32.25	258.00	1225.50	271MT-1145A
Fig. 9 — CBT Type							
145 / 2.8	25 (–6) 25 (+6)	0.5 / 8.0	TK3506-ND	48.30	386.40	1835.40	272MT-1006A
145 / 1.2	30 (–6) 30 (+6)	0.5 / 8.0	TK3504-ND	48.30	386.40	1835.40	272MT-1008A
170 / 1.5	25 (–6) 25 (+6)	0.5 / 8.0	TK3502-ND	48.30	386.40	1835.40	272MT-1013A
223 / 2.6	28 (–10) 40 (+20)	0.5 / 6.0	TK3501-ND	48.30	386.40	1835.40	272MT-1080A

NEW! Flexield® Noise Suppression Sheets - Flexible Ferrite Material

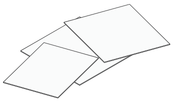

Flexield is an absorptive electromagnetic shielding material consisting of magnetic material and resin. It suppresses noise radiated from electronic equipment over a wide range of frequencies, offers flexibility in fabrication, and delivers particularly excellent performance in high frequency ranges. Flexield is the ideal sheet-type noise reduction product for mobile devices including notebook PCs, digital cameras, and cell phones. **Features:** • Flexible-will not crack • Well suited for thin and compact devices • Support a wide range of frequency bands • Excellent performance at high frequencies **Applications:** • Electromagnetic noise reduction for electric equipment • Internal EMI • Resonance reduction • RF-block • Amplifier • Radiated noise reduction • Surface current suppression • Improvement of noise immunity • Electrostatic discharge countermeasure • Improved antenna reception sensitivity.

Size L x W x T (mm)	Suggested Frequency Range MHz/GHz	Material Name	Min. Initial Perme-ability (ui)@10MHz	Digi-Key Part No.	Price Each 1	10	TDK Part No.
-40°C ~ 85°C Operating Temperature Range							
300 x 200 x .25	100/10	IRL03	25	445-2580-ND	52.50	45.00	IRL03AB 300X200X0.25
300 x 200 x .5	100/10	IRL03	25	445-2581-ND	66.50	57.00	IRL03AB 300X200X0.5
200 x 200 x 1	100/10	IRL02	25	445-2582-ND	78.75	67.50	IRL02A 200X200X1
300 x 200 x .05	100/10	IRL02	25	445-2583-ND	78.75	67.50	IRL02AB 300X200X0.05
300 x 200 x .25	50/10	IRL04	35	445-2584-ND	78.75	67.50	IRL04AB 300X200X0.25
300 x 200 x .5	50/10	IRL04	35	445-2585-ND	66.50	57.00	IRL04AB 300X200X0.5
300 x 200 x .1	30/10	IRL05	60	445-2586-ND	78.75	67.50	IRL05AB 300X200X0.1
-40°C ~ 85°C Operating Temperature Range							
300 x 200 x .25	50/10	IRJ04	35	445-2587-ND	52.50	45.00	IRJ04AB 300X200X0.25
-40°C ~ 70°C Operating Temperature Range							
300 x 300 x 1	500/5	IRB02	7	445-2588-ND	145.06	121.60	IRB02A 300X300X1

Ferrite Beads / SMD

RoHS COMPLIANT

MMZ – Digital Signal Line Application
MPZ – Power Supply Line Application

MATERIAL CHARACTERISTICS

A Material: This high-impedance product is based on the impedance frequency characteristics of our Y-material. The product offers excellent impedance characteristics, which is greater than 2500Ω, in the vicinity of 100MHz range (MMZ1608A252B).

B Material: This type is perfectly suited for fast digital signals. By equalizing R components and X components that beads possess at a frequency of 5MHz, it is able to suppress overshooting, undershooting and ringing of fast digital signals.

D Material: For applications calling for low insertion loss at low frequencies and sharply increasing impedance at high frequencies. Designed for high impedance at high frequencies (200 ~ 500MHz) for signal line applications.

R Material: For digital signal line applications.

S Material: For signal line applications in which the blocking region is near 100MHz.

Y Material: High frequency range type intended for the 100MHz region and above. For signal line applications in which the signal frequency is far from the cutoff frequency.

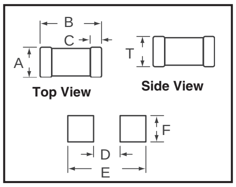

	Dimensions (mm) A	B	C	D	E	F	T
MMZ0603	0.3	0.6	—	0.3	0.8	0.3	0.3
MMZ1005	0.5	1	0.1	0.5	1.4	0.5	0.5
MMZ1608	0.8	1.6	0.3	0.8	2.0	0.8	0.8
MMZ1608-C	0.8	1.6	0.3	0.8	2.0	0.8	0.6
MMZ2012	1.25	2	0.5	1	3.6	1.2	0.85
MPZ1608	0.8	1.6	0.3	0.8	2.0	0.8	0.6*
MPZ2012	1.25	2	0.5	1	3.6	1.2	0.85

*** 220Ω and 600Ω = 0.8**

Imp. 100MHz (Ω)±25%	I Max. (A)	Rdc Max. (Ω)	Mate-rial	Digi-Key Part No.	Cut Tape Pricing 10	50	100	Tape and Reel Size	Pricing*	TDK Part No.
MMZ0603										
10	0.50	0.15	S	445-2141-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S100C
80	0.20	0.5		445-2142-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S800C
120	0.20	0.8		445-2143-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S121C
240	0.10	1.0		445-2144-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S241C
470	0.05	1.8		445-2145-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S471C
600	0.05	2.0		445-2146-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603S601C
120	0.20	0.8	Y	445-2147-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603Y121C
240	0.10	1.0		445-2148-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603Y241C
470	0.05	1.8		445-2149-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603Y471C
33	0.10	1.0	D	445-2140-1-ND	1.40	6.05	11.16	15,000	65.12/M	MMZ0603D330C
MMZ1005										
80	0.50	0.2	S	445-2159-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S800C
120	0.50	0.25		445-2160-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S121C
240	0.40	0.4		445-2161-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S241C
600	0.30	0.6		445-2162-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S601C
1000	0.20	1.0		445-2163-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005S102C
40	0.55	0.12	Y	445-2150-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y400C
80	0.45	0.17		445-2151-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y800C
120	0.40	0.21		445-2152-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y121C
240	0.30	0.33		445-2153-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y241C
300	0.25	0.38		445-2154-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y301C
470	0.25	0.5		445-2155-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y471C
600	0.25	0.56		445-2156-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y601C
1000	0.20	0.74		445-2157-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y102C
1500	0.10	1.15		445-2158-1-ND	.59	2.54	4.69	10,000	27.37/M	MMZ1005Y152C
MMZ1608										
15	1.5	0.05	R	445-2180-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R150A
30	1.5	0.05		445-2181-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R300A
60	0.8	0.1		445-2182-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R600A
120	0.5	0.18		445-2170-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R121A
300	0.5	0.25		445-2171-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R301A
600	0.5	0.4		445-1547-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R601A
1000	0.4	0.5		445-1548-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608R102A
40	0.6	0.1	S	445-2183-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S400A
80	0.5	0.15		445-2172-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S800A
120	0.5	0.2		445-2173-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S121A
180	0.5	0.2	S	445-2174-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S181A
300	0.5	0.3		445-2175-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S301A
600	0.5	0.4		445-1549-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S601A
1000	0.4	0.5		445-1550-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608S102A
15	1.5	0.05	Y	445-2184-1-ND	.54	2.35	4.34	4,000	25.31/M	MMZ1608Y150B
30	1.5	0.05		445-2185-1-ND	.54	2.35	4.34	4,000	25.31/M	MMZ1608Y300B
60	0.5	0.15		445-2186-1-ND	.54	2.35	4.34	4,000	25.31/M	MMZ1608Y600B
120	0.5	0.2		445-2176-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y121B
300	0.5	0.3		445-2177-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y301B
600	0.5	0.4		445-1551-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y601B
1000	0.4	0.5		445-1552-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y102B
1500	0.3	0.6		445-1553-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608Y152B
1500	0.3	1.0	A	445-2178-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608A152E
2500	0.2	0.8		445-2179-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608A252B
80	0.5	0.4	D	445-2167-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608D800B
120	0.4	0.5		445-2168-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608D121B
300	0.3	0.7		445-2169-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608D301B
MMZ1608-C										
120	0.6	0.15	B	445-2164-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608B121C
300	0.5	0.25		445-2165-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608B301C
600	0.5	0.4		445-2166-1-ND	.53	2.28	4.21	4,000	24.56/M	MMZ1608B601C
MMZ2012										
15	1.5	0.05	R	445-2198-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R150A
30	1.5	0.05		445-2199-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R300A
60	1.0	0.1		445-2200-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R600A
120	0.8	0.12		445-2190-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R121A
300	0.6	0.15		445-2191-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R301A
600	0.5	0.2		445-1554-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R601A
1000	0.5	0.3		445-1555-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012R102A
40	1.0	0.1	S	445-2201-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S400A
80	0.8	0.1		445-2192-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S800A
120	0.8	0.15		445-2193-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S121A
180	0.6	0.15		445-2194-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S181A
300	0.6	0.2		445-2195-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S301A
600	0.5	0.3		445-1556-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S601A
1000	0.5	0.35		445-1557-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012S102A
15	1.5	0.05	Y	445-2202-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y150B
30	1.5	0.05		445-2203-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y300B
60	1.0	0.1		445-2204-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y600B
120	0.8	0.12		445-2196-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y121B
300	0.6	0.15		445-2197-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y301B
600	0.5	0.2		445-1558-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y601B
1000	0.5	0.3		445-1559-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y102B
1500	0.5	0.4		445-1560-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y152B
2000	0.4	0.5		445-1561-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012Y202B
80	0.5	0.3	D	445-2187-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012D800B
120	0.5	0.3		445-2188-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012D121B
300	0.4	0.5		445-2189-1-ND	.67	2.89	5.34	4,000	31.15/M	MMZ2012D301B
MPZ1608										
30	5.0	0.01	S	445-1562-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S300A
60	3.5	0.02		445-1563-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S600A
100	3.0	0.03		445-1564-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S101A
220	2.0	0.05		445-1565-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S221A
600	1.0	0.15		445-2205-1-ND	.53	2.28	4.21	4,000	24.56/M	MPZ1608S601A
MPZ2012										
30	5.0	0.01	S	445-1566-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S300A
100	4.0	0.02		445-1567-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S101A
220	3.0	0.04		445-1568-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S221A
330	2.5	0.05		445-1569-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S331A
600	2.0	0.1		445-2206-1-ND	.67	2.89	5.34	4,000	31.15/M	MPZ2012S601A

* For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Signal Line and DC Power Line / SMD – ACF and ACH Series

RoHS COMPLIANT

Features:

- The ACF and ACH series are T-type EMC filters incorporating ferrite chip beads and multi-layer ceramic chip capacitors.
- The external structure consists entirely of ferrite, enabling these parts to achieve superior attenuation characteristics despite their extremely compact dimensions.
- Because they can be mounted on edge, the ACF and ACH series are ideal for high-density circuit configurations.
- Operating Temperature Range: -25°C ~ 85°C

	Dimensions (mm) T	L	A	B	C	W	a	b	c	d
ACF321825	2.5	3.2	0.6	0.35	0.3	1.8	1.4	2.2	1.94	0.6
ACF451832	3.2	4.5	1	0.35	0.4	1.8	1.75	3.5	1.94	1
ACH3218	2.5	3.2	0.6	0.35	0.3	1.8	1.4	2.2	1.94	0.6
ACH4518	3.2	4.5	1	0.35	0.4	1.8	1.75	3.5	1.94	1

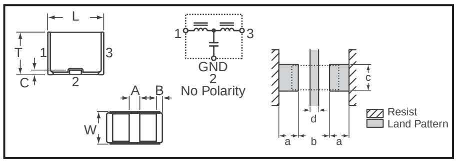

Attenuation Frequency (MHz) Max.	I Max. (A)	Rdc Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing* 1,000	TDK Part No.
ACF321825								
17	0.3	0.15	445-2059-1-ND	.44	3.78	17.46	203.70	ACF321825-223
27	0.3	0.15	445-2060-1-ND	.44	3.78	17.46	203.70	ACF321825-103
37	0.3	0.15	445-2061-1-ND	.44	3.78	17.46	203.70	ACF321825-682
45	0.3	0.15	445-2062-1-ND	.44	3.78	17.46	203.70	ACF321825-472
55	0.3	0.15	445-2063-1-ND	.44	3.78	17.46	203.70	ACF321825-332
65	0.3	0.15	445-2064-1-ND	.44	3.78	17.46	203.70	ACF321825-222
80	0.3	0.15	445-2065-1-ND	.44	3.78	17.46	203.70	ACF321825-152
100	0.3	0.15	445-2066-1-ND	.44	3.78	17.46	203.70	ACF321825-102
120	0.3	0.15	445-2067-1-ND	.44	3.78	17.46	203.70	ACF321825-681
145	0.3	0.15	445-2068-1-ND	.44	3.78	17.46	203.70	ACF321825-471
165	0.3	0.15	445-2069-1-ND	.44	3.78	17.46	203.70	ACF321825-331
200	0.3	0.15	445-2070-1-ND	.44	3.78	17.46	203.70	ACF321825-221
240	0.3	0.15	445-2071-1-ND	.44	3.78	17.46	203.70	ACF321825-151
300	0.3	0.15	445-2072-1-ND	.44	3.78	17.46	203.70	ACF321825-101

* For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

3-Terminal Filters for Signal Line and DC Power Line / SMD – ACF and ACH Series *(Cont.)*

Attenuation Frequency (MHz) Max.	I Max. (A)	Rdc Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing* 1,000	TDK Part No.
370	0.3	0.15	445-2073-1-ND	.44	3.78	17.46	203.70	ACF321825-680
450	0.3	0.15	445-2074-1-ND	.44	3.78	17.46	203.70	ACF321825-470
530	0.3	0.15	445-2075-1-ND	.44	3.78	17.46	203.70	ACF321825-330
650	0.3	0.15	445-2076-1-ND	.44	3.78	17.46	203.70	ACF321825-220
ACF451832								
12	0.3	0.15	445-2077-1-ND	.51	4.41	20.37	237.65	ACF451832-333
15	0.3	0.15	445-2078-1-ND	.51	4.41	20.37	237.65	ACF451832-223
18	0.3	0.15	445-2079-1-ND	.51	4.41	20.37	237.65	ACF451832-153
23	0.3	0.15	445-2080-1-ND	.51	4.41	20.37	237.65	ACF451832-103
35	0.3	0.15	445-2081-1-ND	.51	4.41	20.37	237.65	ACF451832-682
40	0.3	0.15	445-2082-1-ND	.51	4.41	20.37	237.65	ACF451832-472
50	0.3	0.15	445-2083-1-ND	.51	4.41	20.37	237.65	ACF451832-332
60	0.3	0.15	445-2084-1-ND	.51	4.41	20.37	237.65	ACF451832-222
75	0.3	0.15	445-2085-1-ND	.51	4.41	20.37	237.65	ACF451832-152
90	0.3	0.15	445-2086-1-ND	.51	4.41	20.37	237.65	ACF451832-102
105	0.3	0.15	445-2087-1-ND	.51	4.41	20.37	237.65	ACF451832-681
125	0.3	0.15	445-2088-1-ND	.51	4.41	20.37	237.65	ACF451832-471
150	0.3	0.15	445-2089-1-ND	.51	4.41	20.37	237.65	ACF451832-331
190	0.3	0.15	445-2090-1-ND	.51	4.41	20.37	237.65	ACF451832-221
230	0.3	0.15	445-2091-1-ND	.51	4.41	20.37	237.65	ACF451832-151
280	0.3	0.15	445-2092-1-ND	.51	4.41	20.37	237.65	ACF451832-101
340	0.3	0.15	445-2093-1-ND	.51	4.41	20.37	237.65	ACF451832-680
410	0.3	0.15	445-2094-1-ND	.51	4.41	20.37	237.65	ACF451832-470
500	0.3	0.15	445-2095-1-ND	.51	4.41	20.37	237.65	ACF451832-330
600	0.3	0.15	445-2096-1-ND	.51	4.41	20.37	237.65	ACF451832-220
ACH3218								
17	1.5	0.06	445-2097-1-ND	.44	3.78	17.46	203.70	ACH3218-223
27	1.5	0.06	445-2098-1-ND	.44	3.78	17.46	203.70	ACH3218-103
37	1.5	0.06	445-2099-1-ND	.44	3.78	17.46	203.70	ACH3218-682
45	1.5	0.06	445-2100-1-ND	.44	3.78	17.46	203.70	ACH3218-472
55	1.5	0.06	445-2101-1-ND	.44	3.78	17.46	203.70	ACH3218-332
65	1.5	0.06	445-2102-1-ND	.44	3.78	17.46	203.70	ACH3218-222
80	1.5	0.06	445-2103-1-ND	.44	3.78	17.46	203.70	ACH3218-152
100	1.5	0.06	445-2104-1-ND	.44	3.78	17.46	203.70	ACH3218-102
120	1.5	0.06	445-2105-1-ND	.44	3.78	17.46	203.70	ACH3218-681
145	1.5	0.06	445-2106-1-ND	.44	3.78	17.46	203.70	ACH3218-471
165	1.5	0.06	445-2107-1-ND	.44	3.78	17.46	203.70	ACH3218-331
200	1.5	0.06	445-2108-1-ND	.44	3.78	17.46	203.70	ACH3218-221
240	1.5	0.06	445-2109-1-ND	.44	3.78	17.46	203.70	ACH3218-151
300	1.5	0.06	445-2110-1-ND	.44	3.78	17.46	203.70	ACH3218-101
370	1.5	0.06	445-2111-1-ND	.44	3.78	17.46	203.70	ACH3218-680
450	1.5	0.06	445-2112-1-ND	.44	3.78	17.46	203.70	ACH3218-470
530	1.5	0.06	445-2113-1-ND	.44	3.78	17.46	203.70	ACH3218-330
650	1.5	0.06	445-2114-1-ND	.44	3.78	17.46	203.70	ACH3218-220
ACH4518								
12	2	0.04	445-2115-1-ND	.61	5.26	24.27	283.15	ACH4518-333
15	2	0.04	445-2116-1-ND	.61	5.26	24.27	283.15	ACH4518-223
18	2	0.04	445-2117-1-ND	.61	5.26	24.27	283.15	ACH4518-153
23	2	0.04	445-2118-1-ND	.61	5.26	24.27	283.15	ACH4518-103
35	2	0.04	445-2119-1-ND	.61	5.26	24.27	283.15	ACH4518-682
40	2	0.04	445-2120-1-ND	.61	5.26	24.27	283.15	ACH4518-472
50	2	0.04	445-2121-1-ND	.61	5.26	24.27	283.15	ACH4518-332
60	2	0.04	445-2122-1-ND	.61	5.26	24.27	283.15	ACH4518-222
75	2	0.04	445-2123-1-ND	.61	5.26	24.27	283.15	ACH4518-152
90	2	0.04	445-2124-1-ND	.61	5.26	24.27	283.15	ACH4518-102
105	2	0.04	445-2125-1-ND	.61	5.26	24.27	283.15	ACH4518-681
125	2	0.04	445-2126-1-ND	.61	5.26	24.27	283.15	ACH4518-471
150	2	0.04	445-2127-1-ND	.61	5.26	24.27	283.15	ACH4518-331
190	2	0.04	445-2128-1-ND	.61	5.26	24.27	283.15	ACH4518-221
230	2	0.04	445-2129-1-ND	.61	5.26	24.27	283.15	ACH4518-151
280	2	0.04	445-2130-1-ND	.61	5.26	24.27	283.15	ACH4518-101
340	2	0.04	445-2131-1-ND	.61	5.26	24.27	283.15	ACH4518-680
410	2	0.04	445-2132-1-ND	.61	5.26	24.27	283.15	ACH4518-470
500	2	0.04	445-2133-1-ND	.61	5.26	24.27	283.15	ACH4518-330
600	2	0.04	445-2134-1-ND	.61	5.26	24.27	283.15	ACH4518-220

* For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Signal Line / SMD – MEM-T Series

Features:

- Multilayer chip EMC filter utilizing a T-type circuit
- Entirely monolithic structure results in high reliability
- Due to closed magnetic circuit architecture, high-density installation becomes possible and crosstalk generation is prevented
- Steep attenuation characteristic plot. Highly effective noise suppression
- Covers a wide range of frequencies
- Operating Temperature Range: -40°C ~ 85°C

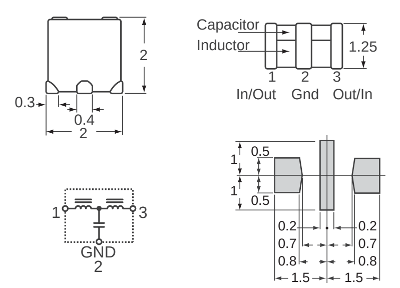

Cut-off Frequency (MHz)	I Max. (A)	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape and Reel Pricing* 1,000	TDK Part No.
10	0.1	445-2135-1-ND	.26	2.28	10.52	122.69	MEM2012T10R0
25	0.15	445-2136-1-ND	.26	2.28	10.52	122.69	MEM2012T25R0
50	0.15	445-2137-1-ND	.26	2.28	10.52	122.69	MEM2012T50R0
75	0.25	445-2138-1-ND	.26	2.28	10.52	122.69	MEM2012T75R0
100	0.25	445-2139-1-ND	.26	2.28	10.52	122.69	MEM2012T101R

* For Tape and Reel part number, change 1-ND to 2-ND.

Common Mode Choke Coils for Signal Line / SMD – ZJYS Series

Features: • A common mode filter for distortion-free noise removal from transmitted signals. Optimized for transmission of high quality signals • Best filter for countering the common mode noise resulting from data signal processing by PCs, phone equipment, etc • Due to a maximum current tolerance of 5A, can also be used to counter power line noise • The ZJYS81R5-2PL is a high inductance common mode filter designed to use with a CAN-BUS

Fig. 1 — ZJYS51R5-2P, -2PB, -2PL, 5103-2PL

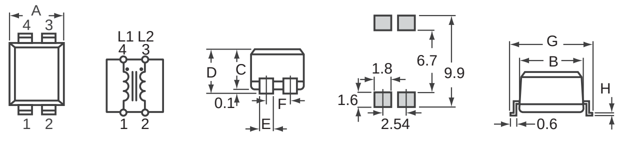

Fig. 2 — ZJYS51R5-4P, -M4PA

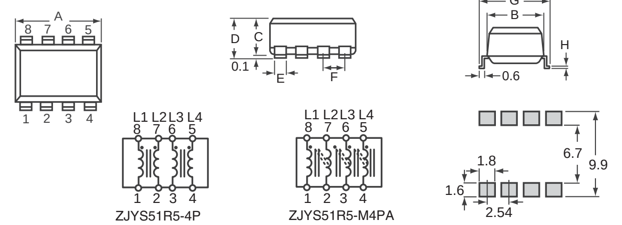

Fig. 3 — ZJYS5105-2PL

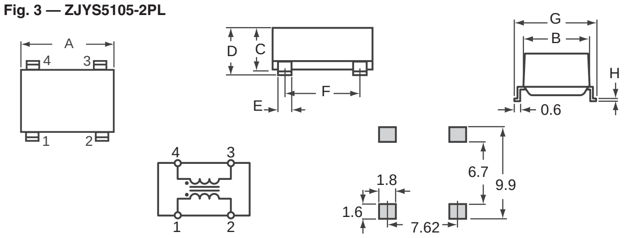

Fig. 4 — ZJYS81R5-2PL25-G01, -2PL51-G01

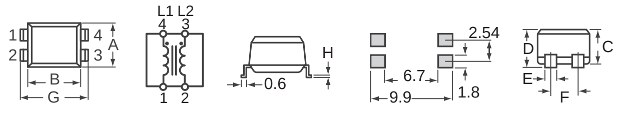

Fig.	Dimensions (mm) A (Max.)	B (Max.)	C (Max.)	D (Max.)	E	F	G (Max.)	H	TDK Part No.
1	5.5	6.86	4.57	5.08	1.3	2.54	9	0.25	ZJYS51R5-2P, -2PB, -2PL, 5103-2PL
2	10.5	6.86	4.57	5.08	1.3	2.54	9	0.25	ZJYS51R5-4P, -M4PA
3	10.5	7.5	4.57	5.08	1.3	7.62	9	0.25	ZJYS5105-2PL
4	6	7.1	4.5	5	1.3	2.54	9	0.25	ZJYS81R5-2PL25-G01, -2PL51-G01

Min. Impedance Ω (MHz)	Rated Curr. I (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Tape and Reel* Size	Pricing	TDK Part No.
Fig. 1 — 50V, Operating Temperature -25°C ~ 85°C								
200 (20~300)	2	445-2219-1-ND	1.31	1.14	1.06	1,500	613.48/M	ZJYS51R5-2P
200 (20~300)	2	445-2220-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS51R5-2PB
200 (20~300)	2	445-2221-1-ND	1.42	1.23	1.14	1,500	660.66/M	ZJYS51R5-2PL
100 (100~300)	3	445-2218-1-ND	1.42	1.23	1.14	1,500	660.66/M	ZJYS5103-2PL
Fig. 2 — 50V, Operating Temperature -25°C ~ 85°C								
200 (20~300)	2	445-2224-1-ND	2.22	1.93	1.78	1,000	1038.19	ZJYS51R5-4P
200 (20~300)	0.5	445-2225-1-ND	2.22	1.93	1.78	1,000	1038.19	ZJYS51R5-M4PA
Fig. 3 — 50V, Operating Temperature -25°C ~ 85°C								
100 (100~300)	5	445-2217-1-ND	1.82	1.58	1.46	1,000	849.43	ZJYS5105-2PL
Fig. 4 — 80V, Operating Temperature -40°C ~ 125°C								
600 (10~100)	0.5	445-2222-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS81R5-2PL25-G01
1000 (10~100)	0.5	445-2223-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS81R5-2PL51-G01

* For Tape and Reel part number, change 1-ND to 2-ND

Common Mode Choke Coils for DC Power and Signal Line / SMD

Features: • A chip-type common mode filter for large current applications. Common mode impedance surpasses 80 ~ 1000Ω at 100MHz. Noise is greatly suppressed • Height and size have been considered, resulting in a compact and light weight choke coil. Applicable for the miniaturization required to reduce the size and weight of portable equipment

Fig. 1 — ACM2012-xxx-2P Types

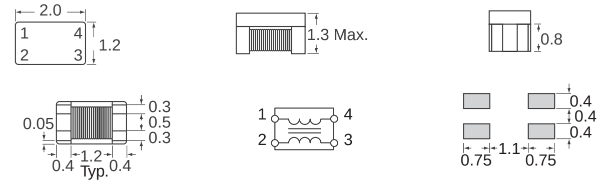

Fig. 2 — ACM3225-xxx-2P and ACM4532-xxx-2P Types

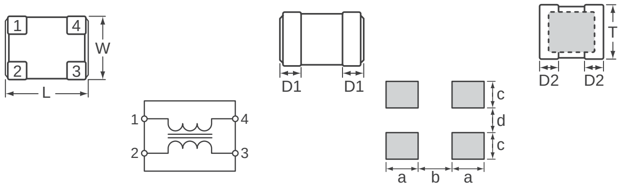

Fig. 3 — ACM4532-102-3P Type

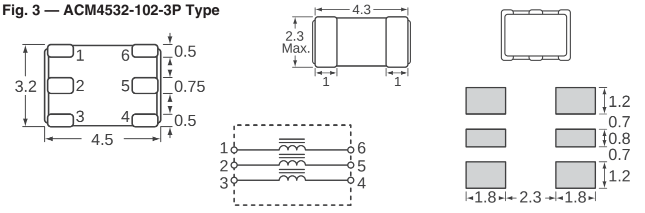

Fig. 4 — ACM7060-xxx-2PL, ACM9070-701-2PL, ACM1211-xxx-2PL, ACM1513-551-2PL Type

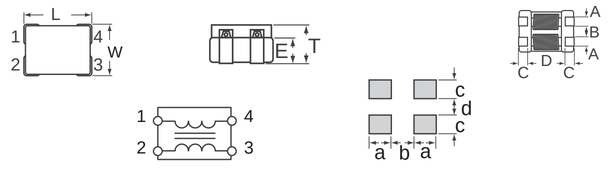

Fig.	L (mm)	W (mm)	T (mm) Max.	D1 (mm)	D2 (mm)	A (mm)	B (mm)	C (mm)	D (mm) Typ.	E (mm)	a (mm)	b (mm)	c (mm)	d (mm)	TDK Part No. Family
2	3.2	2.5	2.3	0.7	0.65	—	—	—	—	—	1.5	1.6	1.4	1.1	ACM3225-xxx-2P
	4.5	3.2	3.0	1	1	—	—	—	—	—	1.8	2.3	1.75	1.1	ACM4532-xxx-2P
4	7.0	6.0	3.5	—	—	1.5	1.5	1.5	4.0	2.2	2.5	4.0	1.5	1.5	ACM7060-xxx-2PL
	9.0	7.0	4.5	—	—	1.5	2.0	1.5	6.0	2.9	2.5	6.0	1.5	2.0	ACM9070-701-2PL
	12.0	11.0	6.0	—	—	2.7	2.5	2.3	7.4	3.8	3.2	7.6	2.7	2.5	ACM1211-xxx-2PL
	15.0	13.0	6.0	—	—	2.7	3.8	2.3	10.4	3.8	3.3	10.4	2.7	3.8	ACM1513-551-2PL

Fig.	Typical Impedance @ 100MHz (Ω)	Maximum DC Resistance (Ω)	Maximum Rated Current Idc (A)	Number of Lines	Digi-Key Part No	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		TDK Part No.
						1	10	50		Size	Pricing	
1	90	0.19	0.4	2	445-2207-1-ND	.57	.50	.46	445-2207-2-ND	2,000	264.27/M	ACM2012-900-2P
	120	0.22	0.37	2	445-2208-1-ND	.57	.50	.46	445-2208-2-ND	2,000	264.27/M	ACM2012-121-2P
	200	0.25	0.35	2	445-2209-1-ND	.57	.50	.46	445-2209-2-ND	2,000	264.27/M	ACM2012-201-2P
	360	0.5	0.22	2	445-2210-1-ND	.57	.50	.46	445-2210-2-ND	2,000	264.27/M	ACM2012-361-2P
2	80	0.15	0.4	2	445-2030-1-ND	.97	.85	.78	445-2030-2-ND	1,000	453.02	ACM3225-800-2P
	160	0.2	0.35	2	445-2031-1-ND	.97	.85	.78	445-2031-2-ND	1,000	453.02	ACM3225-161-2P
	270	0.3	0.3	2	445-2032-1-ND	.97	.85	.78	445-2032-2-ND	1,000	453.02	ACM3225-271-2P
	1000	0.5	0.2	2	445-2033-1-ND	.97	.85	.78	445-2033-2-ND	1,000	453.02	ACM3225-102-2P
	600	0.2	1.0	2	445-2035-1-ND	1.08	.94	.87	445-2035-2-ND	1,000	490.79	ACM3225-601-2P
	600	0.1	1.5	2	445-2036-1-ND	1.05	.92	.85	445-2036-2-ND	500	245.39	ACM4532-601-2P
	800	0.1	1.0	2	445-2037-1-ND	1.05	.92	.85	445-2037-2-ND	500	245.39	ACM4532-801-2P
3	1000	0.6	0.2	3	445-2034-1-ND	1.05	.92	.85	445-2034-2-ND	500	245.39	ACM4532-102-3P
4	300	0.01	5	2	445-2214-1-ND	1.50	1.30	1.20	445-2214-2-ND	1,500	698.43/M	ACM7060-301-2PL
	700	0.015	4	2	445-2215-1-ND	1.50	1.30	1.20	445-2215-2-ND	1,500	698.43/M	ACM7060-701-2PL
	700	0.01	5	2	445-2216-1-ND	1.58	1.37	1.27	445-2216-2-ND	800	588.94	ACM9070-701-2PL
	700	0.006	8	2	445-2212-1-ND	2.22	1.93	1.78	445-2212-2-ND	500	519.09	ACM1211-701-2PL
	1000	0.014	6	2	445-2213-1-ND	2.22	1.93	1.78	445-2213-2-ND	500	519.09	ACM1211-102-2PL
	550	0.004	10	2	445-2211-1-ND	2.63	2.28	2.11	445-2211-2-ND	500	613.48	ACM1513-551-2PL

Clamp Filters for Cable

Features: • Unique plastic case ensures simple, convenient installation and includes a self-holding mechanism to prevent slippage on cables • Ferrite core provides excellent absorption of high-frequency EMC • Highly effective as countermeasure against common mode EMC without adverse effect on signal quality • Large core size prevents saturation during large signal surges

Fig. 1 — ZCAT Type

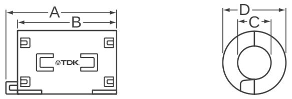

Fig. 2 — ZCAT-A Type

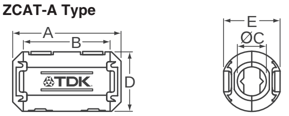

Fig. 3 — ZCAT-D Type

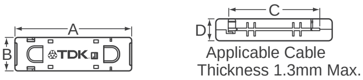

Fig.	Dimensions (mm)					Min. Impedance @ 50 ~ 500MHz (Ω)	Outer Cable Diameter (mm)	Case Color	Digi-Key Part No.	Price Each				TDK Part No.
	A	B	ØC	ØD	E					1	10	50	100	
							ZCAT Type							
1	22	18	7	15	—	35	7 Max.	Gray	445-2040-ND	1.09	.90	.78	.70	ZCAT1518-0730
	22	18	7	15	—	35	7 Max.	Black	445-2041-ND	1.09	.90	.78	.70	ZCAT1518-0730-BK
	21	17	9	20	—	35	9 Max.	Gray	445-2044-ND	1.29	1.07	.93	.83	ZCAT2017-0930
	21	17	9	20	—	35	9 Max.	Black	445-2045-ND	1.29	1.07	.93	.83	ZCAT2017-0930-BK
	36	32	11	20.5	—	50	11 Max.	Gray	445-2048-ND	1.19	.99	.85	.77	ZCAT2132-1130
	36	32	11	20.5	—	50	11 Max.	Black	445-2049-ND	1.19	.99	.85	.77	ZCAT2132-1130-BK
	39	34	13	30	—	100	13 Max.	Gray	445-2054-ND	2.55	2.11	1.82	1.64	ZCAT3035-1330
	39	34	13	30	—	100	13 Max.	Black	445-2055-ND	2.55	2.11	1.82	1.64	ZCAT3035-1330-BK
							ZCAT-A Type							
2	25	20	5	12.8	11.2	50	3 ~ 5	Gray	445-2038-ND	.71	.60	.51	.46	ZCAT1325-0530A
	25	20	5	12.8	11.2	50	3 ~ 5	Black	445-2039-ND	.71	.60	.51	.46	ZCAT1325-0530A-BK
	30	23	7	16.5	15	50	4 ~ 7	Gray	445-2042-ND	1.22	1.02	.88	.79	ZCAT1730-0730A
	30	23	7	16.5	15	50	4 ~ 7	Black	445-2043-ND	1.22	1.02	.88	.79	ZCAT1730-0730A-BK
	35	28	9	19.5	17.4	80	6 ~ 9	Gray	445-2046-ND	1.22	1.02	.88	.79	ZCAT2035-0930A
	35	28	9	19.5	17.4	80	6 ~ 9	Black	445-2047-ND	1.22	1.02	.88	.79	ZCAT2035-0930A-BK
	35	28	10	21.5	20	80	8 ~ 10	Gray	445-2050-ND	1.60	1.33	1.14	1.03	ZCAT2235-1030A
	35	28	10	21.5	20	80	8 ~ 10	Black	445-2051-ND	1.60	1.33	1.14	1.03	ZCAT2235-1030A-BK
	36	29	13	23.5	22	50	10 ~ 13	Gray	445-2052-ND	2.04	1.69	1.46	1.31	ZCAT2436-1330A
	36	29	13	23.5	22	50	10 ~ 13	Black	445-2053-ND	2.04	1.69	1.46	1.31	ZCAT2436-1330A-BK
							ZCAT-D Type							
3	33.5	17.5	26	11.5	—	30	20 Conductor Flat	Black	445-2056-ND	2.55	2.11	1.82	1.64	ZCAT3618-2630D-BK
	45.5	24.5	34	12	—	35	26 Conductor Flat	Black	445-2057-ND	4.07	3.38	2.91	2.62	ZCAT4625-3430D-BK
	67.5	18.5	52	16	—	35	40 Conductor Flat	Black	445-2058-ND	6.79	5.63	4.85	4.37	ZCAT6819-5230D-BK

EMI Suppression Ferrite Chips and Arrays

BLM15 Series: The BLM series comprises the A series for standard, and the B series for high speed signal. Parts are lead free.- The BLM-A series generates an impedance from the relatively low frequencies. The BLM-A series is effective in noise suppression in the wide frequency range (30MHz – several hundred MHz). The BLM-B series can minimize attenuation of the signal waveform due to its sharp impedance characteristics. Various impedances are available to match signal frequency. The BLM-B series has sharp impedance characteristics.

BLM18 Series: The chip ferrite bead BLM18H series comprises ferrite bead inductors in the shape of a chip. This inductor generates a high impedance which at high frequencies mainly consists of a resistance element. The BLM18H series is effective in circuits without stable ground lines because the BLM18H series does not need a connection to ground. The BLM18HG, BLM18HD series has a modified internal electrode structure, that minimizes stray capacitance and increases the effective frequency range. The BLM_H series can provide higher levels of impedance well into the GHz range. The BLM18HG is intended for standard signal lines as this series provides significant impedance across a broad frequency range. The BLM18HD provides a sharper roll-off after the cut off frequency. This series is ideal for high speed signal lines.

BLM31 and BLM41 Series: Series can be used in high current circuits due to its low DC resistance. It can match power lines to a maxium of 6A DC (BLM41P).

BLA31 Series: The BLA31A/B is capable of filtering 4 circuits in a 3216 package size. BLA31A/B is suitable for EMI suppression in smaller digital equipment.

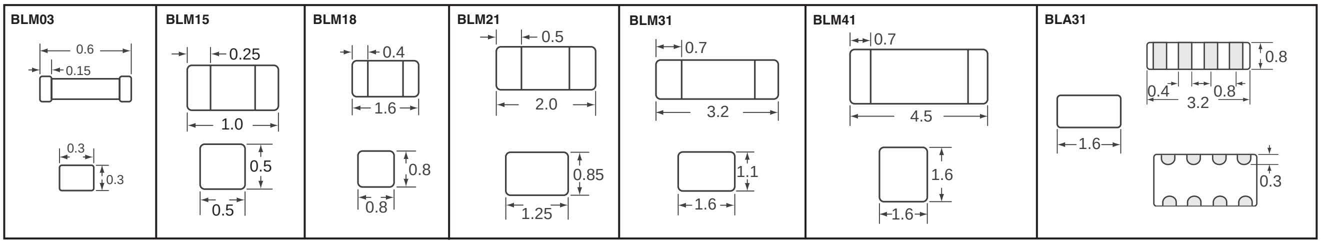

Impedance (at 100MHz) (ohm)	Rated Current (mA)	DC Resistance (max.) (ohm)	Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel		MuRata Part No.
				10	50	100		Size	Pricing	
BLM03 Series — 0201 Case Size										
10 (Typ.)	500	0.1	490-2555-1-ND	1.49	6.47	11.94	490-2555-2-ND	15,000	69.65/M	BLM03AG100SN1D
70 (Typ.)	200	0.5	490-2556-1-ND	1.49	6.47	11.94	490-2556-2-ND	15,000	69.65/M	BLM03AG700SN1D
120 ± 25%	200	0.8	490-2557-1-ND	1.49	6.47	11.94	490-2557-2-ND	15,000	69.65/M	BLM03AG121SN1D
240 ± 25%	100	1.0	490-2558-1-ND	1.49	6.47	11.94	490-2558-2-ND	15,000	69.65/M	BLM03AG241SN1D
BLM15 Series — 0402 Case Size										
120 ± 25%	500	0.25	490-1005-1-ND	.62	2.70	4.98	490-1005-2-ND	10,000	29.05/M	BLM15AG121SN1D
120 ± 25%	300	0.55	490-1008-1-ND	.62	2.70	4.98	490-1008-2-ND	10,000	29.05/M	BLM15BB121SN1D
600 ± 25%	300	0.60	490-1006-1-ND	.66	2.84	5.25	490-1006-2-ND	10,000	30.63/M	BLM15AG601SN1D
1000 ± 25%	200	1.00	490-1007-1-ND	.66	2.84	5.25	490-1007-2-ND	10,000	30.63/M	BLM15AG102SN1D
600 ± 25%	200	0.65	490-1009-1-ND	.69	2.97	5.49	490-1009-2-ND	10,000	32.03/M	BLM15BD601SN1D
1000 ± 25%	200	0.90	490-1010-1-ND	.69	2.97	5.49	490-1010-2-ND	10,000	32.03/M	BLM15BD102SN1D
BLM18 Series — 0603 Case Size										
470±25%	100	1.20	490-1029-1-ND	1.20	5.20	9.60	490-1029-2-ND	4,000	56.00/M	BLM18HD471SN1D
600±25%	100	1.50	490-1030-1-ND	1.20	5.20	9.60	490-1030-2-ND	4,000	56.00/M	BLM18HD601SN1D
1000±25%	50	1.80	490-1031-1-ND	1.20	5.20	9.60	490-1031-2-ND	4,000	56.00/M	BLM18HD102SN1D
470±25%	200	0.85	490-1032-1-ND	1.20	5.20	9.60	490-1032-2-ND	4,000	56.00/M	BLM18HG471SN1D
600±25%	200	1.00	490-1033-1-ND	1.20	5.20	9.60	490-1033-2-ND	4,000	56.00/M	BLM18HG601SN1D
1000±25%	100	1.60	490-1034-1-ND	1.20	5.20	9.60	490-1034-2-ND	4,000	56.00/M	BLM18HG102SN1D
120±25%	200	0.20	490-1011-1-ND	.56	2.44	4.50	490-1011-2-ND	4,000	26.25/M	BLM18AG121SN1D
220±25%	200	0.30	490-1012-1-ND	.56	2.44	4.50	490-1012-2-ND	4,000	26.25/M	BLM18AG221SN1D
470±25%	200	0.50	490-1013-1-ND	.56	2.44	4.50	490-1013-2-ND	4,000	26.25/M	BLM18AG471SN1D
600±25%	200	0.50	490-1014-1-ND	.56	2.44	4.50	490-1014-2-ND	4,000	26.25/M	BLM18AG601SN1D
1000±25%	100	0.70	490-1015-1-ND	.56	2.44	4.50	490-1015-2-ND	4,000	26.25/M	BLM18AG102SN1D
22±25%	500	0.35	490-1016-1-ND	.56	2.44	4.50	490-1016-2-ND	4,000	26.25/M	BLM18BA220SN1D
47±25%	300	0.55	490-1017-1-ND	.56	2.44	4.50	490-1017-2-ND	4,000	26.25/M	BLM18BA470SN1D
75±25%	300	0.70	490-1018-1-ND	.56	2.44	4.50	490-1018-2-ND	4,000	26.25/M	BLM18BA750SN1D
120±25%	200	0.90	490-1019-1-ND	.56	2.44	4.50	490-1019-2-ND	4,000	26.25/M	BLM18BA121SN1D
120±25%	200	0.50	490-1020-1-ND	.56	2.44	4.50	490-1020-2-ND	4,000	26.25/M	BLM18BB121SN1D
470±25%	50	1.00	490-1021-1-ND	.56	2.44	4.50	490-1021-2-ND	4,000	26.25/M	BLM18BB471SN1D
470±25%	200	0.55	490-1022-1-ND	.56	2.44	4.50	490-1022-2-ND	4,000	26.25/M	BLM18BD471SN1D
600±25%	200	0.65	490-1023-1-ND	.56	2.44	4.50	490-1023-2-ND	4,000	26.25/M	BLM18BD601SN1D
1000±25%	100	0.85	490-1024-1-ND	.56	2.44	4.50	490-1024-2-ND	4,000	26.25/M	BLM18BD102SN1D
1500±25%	50	1.20	490-1025-1-ND	.56	2.44	4.50	490-1025-2-ND	4,000	26.25/M	BLM18BD152SN1D
1800±25%	50	1.50	490-1026-1-ND	.56	2.44	4.50	490-1026-2-ND	4,000	26.25/M	BLM18BD182SN1D
2200±25%	50	1.50	490-1027-1-ND	.56	2.44	4.50	490-1027-2-ND	4,000	26.25/M	BLM18BD222SN1D
2500±25%	50	1.50	490-1028-1-ND	.56	2.44	4.50	490-1028-2-ND	4,000	26.25/M	BLM18BD252SN1D
30 (Typ.)	1000	0.05	490-1035-1-ND	.56	2.44	4.50	490-1035-2-ND	4,000	26.25/M	BLM18PG300SN1D
60 (Typ.)	500	0.10	490-1036-1-ND	.56	2.44	4.50	490-1036-2-ND	4,000	26.25/M	BLM18PG600SN1D
120±25%	2000	0.05	490-1037-1-ND	.56	2.44	4.50	490-1037-2-ND	4,000	26.25/M	BLM18PG121SN1D
BLM21 Series — 0805 Case Size										
1000±25%	200	0.45	490-1041-1-ND	.83	3.58	6.60	490-1041-2-ND	4,000	38.50/M	BLM21AG102SN1D
120±25%	200	0.15	490-1038-1-ND	.74	3.22	5.94	490-1038-2-ND	4,000	34.65/M	BLM21AG121SN1D
470±25%	200	0.25	490-1039-1-ND	.74	3.22	5.94	490-1039-2-ND	4,000	34.65/M	BLM21AG471SN1D
600±25%	200	0.30	490-1040-1-ND	.74	3.22	5.94	490-1040-2-ND	4,000	34.65/M	BLM21AG601SN1D
120±25%	200	0.25	490-1042-1-ND	.74	3.22	5.94	490-1042-2-ND	4,000	34.65/M	BLM21BB121SN1D
470±25%	200	0.45	490-1043-1-ND	.74	3.22	5.94	490-1043-2-ND	4,000	34.65/M	BLM21BB471SN1D
120±25%	200	0.25	490-1044-1-ND	.74	3.22	5.94	490-1044-2-ND	4,000	34.65/M	BLM21BD121SN1D
470±25%	200	0.35	490-1045-1-ND	.74	3.22	5.94	490-1045-2-ND	4,000	34.65/M	BLM21BD471SN1D
600±25%	200	0.35	490-1046-1-ND	.79	3.41	6.30	490-1046-2-ND	4,000	36.75/M	BLM21BD601SN1D
1000±25%	200	0.40	490-1047-1-ND	.83	3.58	6.60	490-1047-2-ND	4,000	38.50/M	BLM21BD102SN1D
1500±25%	200	0.45	490-1048-1-ND	1.07	4.63	8.55	490-1048-2-ND	4,000	49.88/M	BLM21BD152SN1D
1800±25%	200	0.50	490-1049-1-ND	1.07	4.63	8.55	490-1049-2-ND	4,000	49.88/M	BLM21BD182SN1D
2200±25%	200	0.60	490-1050-1-ND	1.07	4.63	8.55	490-1050-2-ND	4,000	49.88/M	BLM21BD222TN1D
2700±25%	200	0.80	490-1051-1-ND	1.07	4.63	8.55	490-1051-2-ND	3,000	49.88/M	BLM21BD272SN1L
220 (Typ.)	2000	0.050	490-1054-1-ND	.56	2.41	4.44	490-1054-2-ND	4,000	25.90/M	BLM21PG221SN1D
30 (Typ.)	3000	0.015	490-1052-1-ND	.71	3.06	5.64	490-1052-2-ND	4,000	32.90/M	BLM21PG300SN1D
60 (Typ.)	3000	0.025	490-1053-1-ND	.71	3.06	5.64	490-1053-2-ND	4,000	32.90/M	BLM21PG600SN1D
BLM31 Series — 1206 Case Size										
50 (Typ.)	3000	0.025	490-1055-1-ND	2.00	8.65	15.96	490-1055-2-ND	3,000	93.10/M	BLM31PG500SN1L
120 (Typ.)	3000	0.025	490-1056-1-ND	2.00	8.65	15.96	490-1056-2-ND	3,000	93.10/M	BLM31PG121SN1L
600 (Typ.)	1500	0.09	490-1057-1-ND	2.00	8.65	15.96	490-1057-2-ND	3,000	93.10/M	BLM31PG601SN1L
BLM41 Series — 1806 Case Size										
80 (Typ.)	1000	0.10	490-1059-1-ND	2.17	9.39	17.34	490-1059-2-ND	2,500	101.16/M	BLM41PF800SN1L
60 (Typ.)	6000	0.01	490-1058-1-ND	2.53	10.95	20.22	490-1058-2-ND	2,500	117.96/M	BLM41PG600SN1L
470 (Typ.)	2000	0.05	490-1060-1-ND	2.33	10.09	18.63	490-1060-2-ND	2,500	108.68/M	BLM41PG471SN1L
1000 (Typ.)	1500	0.09	490-1061-1-ND	2.57	11.12	20.52	490-1061-2-ND	2,500	119.70/M	BLM41PG102SN1L
BLA31 Series — SMD Array										
120±25%	150	0.20	490-1000-1-ND	4.50	19.50	36.00	490-1000-2-ND	4,000	210.00/M	BLA31AG121SN4D
600±25%	100	0.45	490-1001-1-ND	4.50	19.50	36.00	490-1001-2-ND	4,000	210.00/M	BLA31AG601SN4D
1000±25%	50	0.45	490-1002-1-ND	4.50	19.50	36.00	490-1002-2-ND	4,000	210.00/M	BLA31AG102SN4D
120±25%	150	0.30	490-1003-1-ND	4.50	19.50	36.00	490-1003-2-ND	4,000	210.00/M	BLA31BD121SN4D
600±25%	100	0.35	490-1004-1-ND	4.50	19.50	36.00	490-1004-2-ND	4,000	210.00/M	BLA31BD601SN4D

Chip EMI Filters Capacitor Type

NFM21CC Series: The chip EMIFIL NFM21C series is a chip type 3-terminal EMI suppression filter. It can reduce residual inductance to an extremely low level making it excellent for noise suppression at high frequencies.

NFM21PC Series: NFM21P is a 3-terminal structure component. This product can be applied to large current DC power lines. NFM21P is suitable for noise suppression of DC power lines where relatively large current operates.

NFE31PT Series: Its large rated current of 6A and low voltage drop due to small DC resistance are suitable for DC power line use. The feedthrough capacitor realizes excellent high frequency characteristics. The structure incorporates built-in ferrite beads which minimize resonance with surrounding circuits.

NFM41PC Series: The chip EMIFIL NFM41P series consists of 3-terminal structure. These components are able to be applied to large current DC power lines. NFM41P series are suitable in noise suppression in DC lines where relatively large currents operate.

NFE61PT Series: Its large rated current of 2A and low voltage drop due to small DC resistance are suitable for DC power line use. The feedthrough capacitor realizes excellent high frequency characteristics.

NFM21CC Series

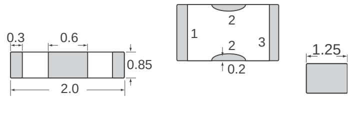

NFM21PC Series

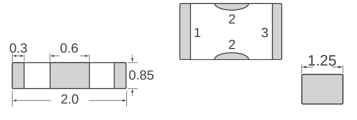

NFE31PT Series

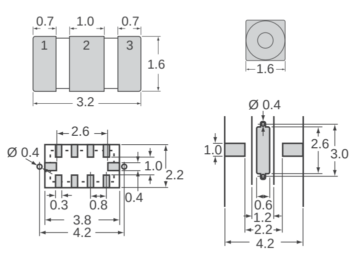

NFM41PC Series

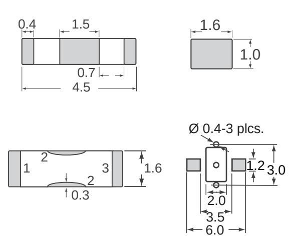

NFE61PT Series

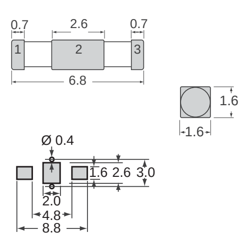

E

Cap.	Rated Volt. (Vdc)	Rated Current (mA)	Digi-Key Part No.	Pricing 1	10	50	100	Digi-Key Part No.	Tape and Reel Size	Pricing	MuRata Part No.
NFM21CC Series — 0805 Case Size											
22pF	50	700	490-2532-1-ND	.24	2.04	9.42	15.70	490-2532-2-ND	4,000	109.90/M	NFM21CC220U1H3D
47pF	50	700	490-2533-1-ND	.24	2.04	9.42	15.70	490-2533-2-ND	4,000	109.90/M	NFM21CC470U1H3D
100pF	50	700	490-2534-1-ND	.24	2.04	9.42	15.70	490-2534-2-ND	4,000	109.90/M	NFM21CC101U1H3D
2200pF	50	1000	490-2535-1-ND	.24	2.04	9.42	15.70	490-2535-2-ND	4,000	109.90/M	NFM21CC222R1H3D
NFM21PC Series — 0805 Case Size											
0.10µF	25	2	490-2536-1-ND	.18	1.57	7.25	12.08	490-2536-2-ND	4,000	84.53/M	NFM21PC104R1E3D
0.47µF	16	2	490-2537-1-ND	.23	2.00	9.23	15.38	490-2537-2-ND	4,000	107.63/M	NFM21PC474R1C3D
1.0µF	16	4	490-3912-1-ND† ***NEW!***	.24	2.10	9.68	16.13	490-3912-2-ND† ***NEW!***	4,000	113.00/M	NFM21PC105B1C3D
NFE31PT Series — 1206 Case Size											
22pF	25	6	490-2544-1-ND	.54	4.66	21.53	35.88	490-2544-2-ND	2,000	251.13/M	NFE31PT220R1E9L
100pF	25	6	490-2545-1-ND	.54	4.66	21.53	35.88	490-2545-2-ND	2,000	251.13/M	NFE31PT101C1E9L
470pF	25	6	490-2546-1-ND	.54	4.66	21.53	35.88	490-2546-2-ND	2,000	251.13/M	NFE31PT471F1E9L
2200pF	25	6	490-2547-1-ND	.54	4.66	21.53	35.88	490-2547-2-ND	2,000	251.13/M	NFE31PT222Z1E9L
NFM41PC Series — 1806 Case Size											
0.20µF	50	2	490-2550-1-ND	.84	7.25	33.45	55.75	490-2550-2-ND	4,000	390.25/M	NFM41PC204F1H3L
NFE61PT Series — 2606 Case Size											
33pF	50	2	490-2551-1-ND	.70	6.08	28.07	46.78	490-2551-2-ND	2,500	327.43/M	NFE61PT330B1H9L
680pF	50	2	490-2552-1-ND	.70	6.08	28.07	46.78	490-2552-2-ND	2,500	327.43/M	NFE61PT681B1H9L
1000pF	50	2	490-2553-1-ND	.70	6.08	28.07	46.78	490-2553-2-ND	2,500	327.43/M	NFE61PT102E1H9L
4700pF	50	2	490-2554-1-ND	.85	7.39	34.13	56.88	490-2554-2-ND	2,500	398.13/M	NFE61PT472C1H9L

† RoHS Compliant

LC Combined Chip EMIFIL

NFL18ST Series: The NFL18ST series is an EMI suppression filter for high speed signal lines, achieving T-type structure in 1.6 x 0.8mm size with Murata's multilayer technology. Noise suppression for video signal lines (RGB lines) and high speed clock lines.

NFL21S Series: Murata's original internal structure design enables excellent noise suppression up to high frequencies. Available in five different values of cut off frequency ranging from 20MHz up to 500MHz.

NFW31S Series: The signal line chip EMI filter NFW31S series consists of high performance EMI suppression filters LC combined wound type. They are designed for noise suppression in high speed signal digital circuits in which the signal harmonics are prone to becoming noise sources. These filters achieve a 100dB/dec. (typical) damping characteristic with Murata's innovative circuit design. This makes these chips effective in applications where the signal and noise frequencies are close to each other.

NFL18ST Series

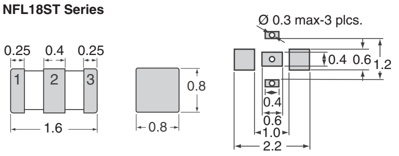

NFL21S Series

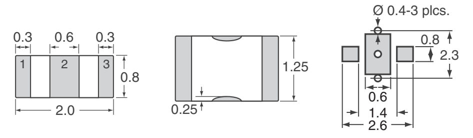

NFW31S Series

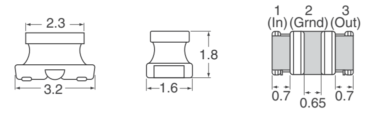

Cut-off Freq. (MHz)	Cap. (pF)	Inductance (nH)	Rated Volt. (Vdc)	Rated Current (mA)	Digi-Key Part No.	Pricing 1	10	50	100	Digi-Key Part No.	Tape and Reel Size	Pricing	MuRata Part No.
NFL18ST Series													
150	32	140	16	100	490-2531-1-ND	.50	4.37	20.19	33.65	490-2531-2-ND	4,000	235.55/M	NFL18ST157X1C3D
300	18	62	16	200	490-2530-1-ND	.50	4.37	20.19	33.65	490-2530-2-ND	4,000	235.55/M	NFL18ST307X1C3D
NFL21S Series													
20	240	700	16	100	490-2543-1-ND	.40	3.43	15.84	26.40	490-2543-2-ND	4,000	184.80/M	NFL21SP206X1C3D
50	84	305	16	150	490-2542-1-ND	.40	3.43	15.84	26.40	490-2542-2-ND	4,000	184.80/M	NFL21SP506X1C3D
70	76	185	16	150	490-2541-1-ND	.37	3.22	14.88	24.80	490-2541-2-ND	4,000	173.60/M	NFL21SP706X1C3D
100	44	135	16	200	490-2540-1-ND	.29	2.54	11.72	19.53	490-2540-2-ND	4,000	136.68/M	NFL21SP107X1C3D
300	19	45	16	300	490-2539-1-ND	.28	2.40	11.07	18.45	490-2539-2-ND	4,000	129.15/M	NFL21SP307X1C3D

Nominal Cut-off Freq. (MHz)	Attenuation at 10 MHz (dB)	Attenuation at 400 MHz (dB)	Digi-Key Part No.	Pricing 1	10	50	100	Digi-Key Part No.	Tape and Reel Size	Pricing	MuRata Part No.
NFW31S Series											
10	6 maximum	—	490-2548-1-ND	.74	6.37	29.42	49.03	490-2548-2-ND	2,000	343.18/M	NFW31SP106X1E4L
400	—	6 maximum	490-2549-1-ND	.74	6.37	29.42	49.03	490-2549-2-ND	2,000	343.18/M	NFW31SP407X1E4L

Steward Surface Mount EMI Suppression Ferrite Chips for Signal and Power Filtering

Chips up to 10 Amps continuous operation

Applications:
- Filtering of power input pins of oscillators and logic devices using high speed clocks
- Filtering of low frequency input/output signals entering/exiting shielded enclosures
- High frequency filtering of medium speed clocks and video signals

RoHS COMPLIANT

Fig. 1

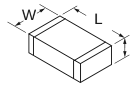

Fig. 2

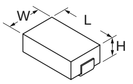

Steward's Part Number Prefix Code

HR: High Retention under bias
HI: High Current
MI: Mid Current
LI: Low Current
DM: Differential Mode and Ultra High Current
HZ: High Impedance

Fig.	Size Code	Dimensions - mm			Current Rating IMax (mA) Continuous	Typical Impedance @ 100 MHz	Typical Peak Impedance (Ω)	Peak Impedance Frequency (MHz)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel				Steward Part No.
		Length	Width	Height						10	50	100		Size	Pricing	Size	Pricing	
1	***0402***	1.01	0.50	0.50	200	300 Ω	549	374	240-2360-1-ND	.80	3.45	6.36	240-2360-2-ND	10,000	37.00/M	30,000	35.00/M	LI0402B301R-10
					400	120 Ω	213	682	240-2361-1-ND	.80	3.45	6.36	240-2361-2-ND	10,000	37.00/M	30,000	35.00/M	LI0402D121R-10
					500	30 Ω	58	1,195	240-2362-1-ND	.80	3.45	6.36	240-2362-2-ND	8,000	37.00/M	32,000	34.00/M	LI0402E300R-10
					500	60 Ω	97	801	240-2363-1-ND	.80	3.45	6.36	240-2363-2-ND	10,000	37.00/M	30,000	35.00/M	LI0402E600R-10
					100	600 Ω	965	241	240-2364-1-ND	.98	4.26	7.86	240-2364-2-ND	10,000	46.00/M	30,000	43.00/M	HZ0402A601R-10
1	***0603***	1.60	0.80	0.80	400	300 Ω	389	261	240-2365-1-ND	.66	2.86	5.28	240-2365-2-ND	4,000	31.00/M	12,000	28.00/M	LI0603D301R-10
					500	150 Ω	209	332	240-2366-1-ND	.66	2.86	5.28	240-2366-2-ND	4,000	31.00/M	12,000	28.00/M	LI0603E151R-10
					700	120 Ω	177	389	240-2367-1-ND	.66	2.86	5.28	240-2367-2-ND	4,000	31.00/M	12,000	28.00/M	LI0603G121R-10
					700	220 Ω	283	251	240-2368-1-ND	.66	2.86	5.28	240-2368-2-ND	4,000	31.00/M	12,000	28.00/M	LI0603G221R-10
					700	80 Ω	101	515	240-2369-1-ND	.66	2.86	5.28	240-2369-2-ND	4,000	31.00/M	12,000	28.00/M	LI0603G800R-10
	0603	1.60	0.80	0.80	1,000	60 Ω	96	739	240-2370-1-ND	.80	3.46	6.39	240-2370-2-ND	4,000	37.00/M	12,000	34.00/M	MI0603J600R-10
					1,000	600 Ω	644	138	240-2371-1-ND	.98	4.26	7.86	240-2371-2-ND	4,000	46.00/M	12,000	42.00/M	MI0603J601R-10
					1,000	68 Ω	107	682	240-2372-1-ND	.65	2.83	5.22	240-2372-2-ND	4,000	30.00/M	12,000	28.00/M	MI0603J680R-10
					1,500	30 Ω	45	940	240-2373-1-ND	.67	2.91	5.37	240-2373-2-ND	4,000	31.00/M	12,000	29.00/M	MI0603K300R-10
					2,000	300 Ω	412	214	240-2374-1-ND	.98	4.26	7.86	240-2374-2-ND	4,000	46.00/M	12,000	42.00/M	MI0603L301R-10
					2,500	120 Ω	171	457	240-2375-1-ND	.98	4.26	7.86	240-2375-2-ND	4,000	46.00/M	12,000	42.00/M	MI0603M121R-10
	0603	1.60	0.80	0.80	4,000	60 Ω	85	739	240-2376-1-ND	.99	4.27	7.89	240-2376-2-ND	4,000	46.00/M	12,000	42.00/M	HI0603P600R-10
	0603	1.60	0.80	0.80	100	2,200 Ω	3051	122	240-2377-1-ND	.75	3.23	5.97	240-2377-2-ND	4,000	35.00/M	12,000	32.00/M	HZ0603A222R-10
					200	1,000 Ω	992	135	240-2378-1-ND	.75	3.23	5.97	240-2378-2-ND	4,000	35.00/M	12,000	32.00/M	HZ0603B102R-10
					200	1,100 Ω	1,539	288	240-2379-1-ND	.75	3.23	5.97	240-2379-2-ND	4,000	35.00/M	12,000	32.00/M	HZ0603B112R-10
					300	600 Ω	775	168	240-2380-1-ND	.75	3.23	5.97	240-2380-2-ND	4,000	35.00/M	12,000	32.00/M	HZ0603C601R-10
					300	650 Ω	964	380	240-2381-1-ND	.75	3.23	5.97	240-2381-2-ND	4,000	35.00/M	12,000	32.00/M	HZ0603C651R-10
1	***0805***	2.00	1.25	0.90	700	300 Ω	350	205	240-2382-1-ND	.80	3.48	6.42	240-2382-2-ND	4,000	37.00/M	12,000	34.00/M	LI0805G301R-10
					800	120 Ω	171	319	240-2383-1-ND	.80	3.48	6.42	240-2383-2-ND	4,000	37.00/M	12,000	34.00/M	LI0805H121R-10
					800	150 Ω	209	374	240-2384-1-ND	.80	3.48	6.42	240-2384-2-ND	4,000	37.00/M	12,000	34.00/M	LI0805H151R-10
					800	75 Ω	132	769	240-2385-1-ND	.80	3.48	6.42	240-2385-2-ND	4,000	37.00/M	12,000	34.00/M	LI0805H750R-10
	0805	2.00	1.25	0.90	1,000	7 Ω	34	2,456	240-2386-1-ND	.88	3.80	7.02	240-2386-2-ND	4,000	41.00/M	12,000	37.00/M	MI0805J070R-10
					1,500	11 Ω	24	3,000	240-2387-1-ND	.88	3.80	7.02	240-2387-2-ND	4,000	41.00/M	12,000	37.00/M	MI0805K110R-10
					1,500	26 Ω	43	1,059	240-2388-1-ND	.88	3.80	7.02	240-2388-2-ND	4,000	41.00/M	12,000	37.00/M	MI0805K260R-10
					1,500	40 Ω	69	903	240-2389-1-ND	.88	3.80	7.02	240-2389-2-ND	4,000	41.00/M	12,000	37.00/M	MI0805K400R-10
					1,500	600 Ω	727	122	240-2390-1-ND	1.04	4.49	8.28	240-2390-2-ND	4,000	48.00/M	12,000	44.00/M	MI0805K601R-10
					2,000	300 Ω	393	197	240-2391-1-ND	1.04	4.49	8.28	240-2391-2-ND	4,000	48.00/M	12,000	44.00/M	MI0805L301R-10
					2,500	220 Ω	284	226	240-2392-1-ND	1.12	4.84	8.94	240-2392-2-ND	4,000	52.00/M	12,000	48.00/M	MI0805M221R-10
	0805	2.00	1.25	0.90	3,500	120 Ω	167	231	240-2393-1-ND	.98	4.26	7.86	240-2393-2-ND	4,000	46.00/M	12,000	42.00/M	HI0805O121R-10
					4,500	31 Ω	45	800	240-2394-1-ND	.98	4.26	7.86	240-2394-2-ND	4,000	46.00/M	12,000	42.00/M	HI0805Q310R-10
					5,000	80 Ω	95	200	240-2395-1-ND	.98	4.26	7.86	240-2395-2-ND	4,000	46.00/M	12,000	42.00/M	HI0805R800R-10
	0805	2.00	1.25	0.90	200	2,700 Ω	2,894	88	240-2504-1-ND	1.10	4.75	8.76	240-2504-2-ND	2,000	51.00/M	6 ,000	48.00/M	HZ0805B272R-10
					300	2,000 Ω	2,099	100	240-2396-1-ND	.96	4.14	7.65	240-2396-2-ND	4,000	45.00/M	12,000	41.00/M	HZ0805C202R-10
					400	1,000 Ω	1,268	113	240-2397-1-ND	.96	4.14	7.65	240-2397-2-ND	4,000	45.00/M	12,000	41.00/M	HZ0805D102R-10
					400	1,500 Ω	1,525	110	240-2398-1-ND	.96	4.14	7.65	240-2398-2-ND	4,000	45.00/M	12,000	41.00/M	HZ0805D152R-10
					500	600 Ω	696	155	240-2399-1-ND	.80	3.46	6.39	240-2399-2-ND	4,000	37.00/M	12,000	34.00/M	HZ0805E601R-10
					700	470 Ω	572	149	240-2400-1-ND	.80	3.46	6.39	240-2400-2-ND	4,000	37.00/M	12,000	34.00/M	HZ0805G471R-10
1	***1206***	3.20	1.60	1.10	800	120 Ω	145	422	240-2401-1-ND	.85	3.69	6.81	240-2401-2-ND	3,000	40.00/M	6,000	37.00/M	LI1206H121R-10
						150 Ω	182	241	240-2402-1-ND	.85	3.69	6.81	240-2402-2-ND	3,000	40.00/M	6,000	37.00/M	LI1206H151R-10
	1206	3.20	1.60	1.10	1,500	26 Ω	46	940	240-2403-1-ND	1.03	4.47	8.25	240-2403-2-ND	3,000	48.00/M	6,000	45.00/M	MI1206K260R-10
					1,500	31 Ω	41	1,018	240-2404-1-ND	1.22	5.28	9.75	240-2404-2-ND	3,000	57.00/M	6,000	54.00/M	MI1206K310R-10
					1,800	600 Ω	662	79	240-2405-1-ND	1.41	6.09	11.25	240-2405-2-ND	3,000	66.00/M	6,000	62.00/M	MI1206K601R-10
					1,500	90 Ω	154	867	240-2406-1-ND	1.22	5.28	9.75	240-2406-2-ND	3,000	57.00/M	6,000	54.00/M	MI1206K900R-10
					2,000	500 Ω	483	85	240-2407-1-ND	1.22	5.28	9.75	240-2407-2-ND	3,000	57.00/M	6,000	54.00/M	MI1206L501R-10
	1206	3.20	1.60	1.10	3,000	100 Ω	149	684	240-2408-1-ND	1.37	5.92	10.92	240-2408-2-ND	3,000	64.00/M	6,000	60.00/M	HI1206N101R-10
				1.10	3,000	80 Ω	131	903	240-2409-1-ND	1.37	5.92	10.92	240-2409-2-ND	3,000	64.00/M	6,000	60.00/M	HI1206N800R-10
				1.10	4,000	120 Ω	144	189	240-2410-1-ND	1.26	5.46	10.08	240-2410-2-ND	3,000	59.00/M	6,000	55.00/M	HI1206P121R-10
				1.35	6,000	160 Ω	229	306	240-2411-1-ND	1.37	5.92	10.92	240-2411-2-ND	2,000	64.00/M	6,000	60.00/M	HI1206T161R-10
				1.10	6,000	50 Ω	70	1,018	240-2412-1-ND	1.37	5.92	10.92	240-2412-2-ND	3,000	64.00/M	6,000	60.00/M	HI1206T500R-10
	1206	3.20	1.60	1.10	300	2,000 Ω	2,505	41	240-2413-1-ND	1.13	4.88	9.00	240-2413-2-ND	3,000	53.00/M	6,000	50.00/M	HZ1206C202R-10
					400	1,000 Ω	973	92	240-2414-1-ND	1.13	4.88	9.00	240-2414-2-ND	3,000	53.00/M	6,000	50.00/M	HZ1206D102R-10
					500	600 Ω	674	75	240-2415-1-ND	1.13	4.88	9.00	240-2415-2-ND	3,000	53.00/M	6,000	50.00/M	HZ1206E601R-10
1	***1210***	3.20	2.50	1.40	1,500	60 Ω	100	700	240-2416-1-ND	1.88	8.13	15.00	240-2416-2-ND	3,000	88.00/M	6,000	83.00/M	MI1210K600R-10
1	***1612***	4.06	3.05	2.28	10,000	56 Ω	81	940	240-2417-1-ND	5.78	25.03	46.20	240-2417-2-ND	2,500	270.00/M	5,000	254.00/M	DM1612X560R-10
									240-2499-1-ND	5.78	25.03	46.20	240-2499-2-ND	5,000	270.00/M	10,000	254.00/M	HI1612X560R-10
1	***1806***	4.50	1.60	1.60	300	150 Ω	223	871	240-2418-1-ND	2.42	10.47	19.32	240-2418-2-ND	2,000	113.00/M	6,000	106.00/M	LI1806C151R-10
					500	100 Ω	166	966	240-2419-1-ND	2.42	10.47	19.32	240-2419-2-ND	2,000	113.00/M	6,000	106.00/M	LI1806E101R-10
					500	80 Ω	117	1,103	240-2420-1-ND	2.42	10.47	19.32	240-2420-2-ND	2,000	113.00/M	6,000	106.00/M	LI1806E800R-10
	1806	4.50	1.60	1.60	6,000	60 Ω	92	1,000	240-2421-1-ND	2.63	11.38	21.00	240-2421-2-ND	2,000	123.00/M	6,000	116.00/M	HI1806T600R-10
1	***1812***	4.50	3.20	1.40	1,500	120 Ω	170	800	240-2422-1-ND	2.70	11.70	21.60	240-2422-2-ND	2,500	126.00/M	5,000	119.00/M	MI1812K121R-10
	1812	4.50	3.20	1.40	6,000	80 Ω	108	1,000	240-2423-1-ND	2.70	11.70	21.60	240-2423-2-ND	2,500	126.00/M	5,000	119.00/M	HI1812T800R-10
1	***2220***	5.59	5.08	1.52	4,000	170 Ω	256	581	240-2424-1-ND	7.31	31.69	58.50	240-2424-2-ND	2,000	341.00/M	6,000	322.00/M	HI2220P171R-10
				1.80	4,000	250 Ω	289	205	240-2425-1-ND	7.31	31.69	58.50	240-2425-2-ND	2,000	341.00/M	6,000	322.00/M	HI2220P251R-10
				1.97	4,000	550 Ω	851	272	240-2426-1-ND	8.72	37.78	69.75	240-2426-2-ND	2,000	407.00/M	6,000	384.00/M	HI2220P551R-10
				3.05	4,000	600 Ω	764	79	240-2427-1-ND	8.72	37.78	69.75	240-2427-2-ND	2,000	407.00/M	6,000	384.00/M	HI2220P601R-10
				3.05	4,000	700 Ω	634	100	240-2428-1-ND	8.72	37.78	69.75	240-2428-2-ND	2,000	407.00/M	6,000	384.00/M	HI2220P701R-10
				1.80	5,000	150 Ω	226	581	240-2429-1-ND	7.31	31.69	58.50	240-2429-2-ND	2,000	341.00/M	6,000	322.00/M	HI2220R151R-10
				3.20	5,000	300 Ω	374	189	240-2430-1-ND	7.31	31.69	58.50	240-2430-2-ND	2,000	341.00/M	6,000	322.00/M	HI2220R301R-10
				1.80	6,000	100 Ω	158	655	240-2431-1-ND	7.31	31.69	58.50	240-2431-2-ND	2,000	341.00/M	6,000	322.00/M	HI2220T101R-10
	2220	5.59	5.08	3.05	4,000	600 Ω	623	104	240-2432-1-ND	9.83	42.58	78.60	240-2432-2-ND	2,000	459.00/M	6,000	432.00/M	HR2220P601R-10
				3.61	8,000	800 Ω	791	96	240-2433-1-ND	13.64	59.12	109.14	240-2433-2-ND	2,000	637.00/M	6,000	600.00/M	HR2220V801R-10
1	***3312***	8.50	3.05	2.28	10,000	100 Ω	173	1,059	240-2434-1-ND	10.27	44.51	82.17	240-2434-2-ND	2,500	479.00/M	5,000	452.00/M	DM3312X101R-10
									240-2498-1-ND	10.27	44.51	82.17	240-2498-2-ND	5,000	479.00/M	10,000	452.00/M	HI3312X101R-10
2	***1612***	5.08	3.05	3.05	10,000	48 Ω	55	1,000	240-2435-1-ND	1.60	6.94	12.81	240-2435-2-ND	2,500	75.00/M	5,000	70.00/M	28F0121-0SR-10
2	***3312***	9.53	3.05	3.05	10,000	96 Ω	115	300	240-2436-1-ND	1.60	6.94	12.81	240-2436-2-ND	2,500	75.00/M	5,000	70.00/M	28F0121-1SR-10

240-2227-ND Surface Mount Ferrite Chip Bead Sample Kit (10-30 samples each of over 70 parts; 0402 to 3312 sizes)........ **$60.00**

Steward EMI Filters, Chokes, Chips and Power Inductor Chips

Surface Mount Four - Line Chip Arrays for Differential Signal Filtering

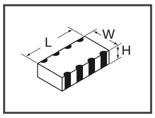

Features: • Small footprint • Rugged construction • Broad range of impedance values • Good high frequency performance (peaks well above 100MHz) • Lower installation cost (one pick and place motion instead of four discrete installations) • Equivalent performance to four 0603 sized chips

Size Code	Dimensions - mm			Typical Impedance @ 100MHz	Typical Peak Impedance (Ω)	Peak Impedance Frequency (MHz)	Number of Filtered Circuits	Current Rating I Max. (mA) Continuous	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel						Steward Part No.
	L	W	H							10	50	100		Size	Pricing	Size	Pricing	Size	Pricing	
1206	3.20	1.60	0.80	1,000	1,129	175	4	200	240-2483-1-ND	.69	.60	.55	240-2483-2-ND	3,000	318.00/M	6,000	300.00/M	9,000	291.00/M	DA1206B102R-10
				600	761	214		200	240-2482-1-ND	.61	.53	.49	240-2482-2-ND	3,000	281.00/M	6,000	265.00/M	9,000	257.00/M	DA1206B601R-10
				120	211	559		300	240-2480-1-ND	.61	.53	.49	240-2480-2-ND	3,000	281.00/M	6,000	265.00/M	9,000	257.00/M	DA1206C121R-10
				300	420	261		400	240-2481-1-ND	.61	.53	.49	240-2481-2-ND	3,000	281.00/M	6,000	265.00/M	9,000	257.00/M	DA1206D301R-10
				30	56	1,161		500	240-2479-1-ND	.61	.53	.49	240-2479-2-ND	3,000	281.00/M	6,000	265.00/M	9,000	257.00/M	DA1206E300R-10

Power Inductor Chip / Monolithic Surface Mount

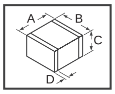

Steward's DI2220V301R-10 is a surface mount, high current power inductor (in the industry's smallest package) with exceptional performance under DC Bias. Very low DCR provides superior thermal performance under DC bias. This compact, monolithic component produces flat inductance over the driven current range (from 3 to 8 amps) comparable to a larger, heavier, wire-wound toroidal inductor. EMI resistant, fully shielded internal coil. Tuned to work with the new generation of high frequency multiphase DC-DC converters. Mounting can be on back side of PC boards. Low profile, small footprint and vibration resistant.

Size Code	Dimensions (mm)				L @ 2MHz Typical nH (± 10%)		DCR Max. (Ω)	Rated I Max. Continuous (mA)	Digi-Key Part No	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Steward Part No.
	A	B	C	D	5 Amps	8 Amps				10	50	100		Size	Pricing	
2220	5.59	5.08	3.61	0.76	300	270	0.010	8,000	240-2484-1-ND	1.53	1.33	1.22	240-2484-2-ND	2,000	671.00/M	DI2220V301R-10

Miniature High Current Common Mode Choke Chip Beads

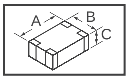

Steward's monolithic surface mount common mode chokes are designed for power and data line EMI filtering where high current, small size or high frequency performance is required. Low Normal Mode Impedance and Low DCR to minimize signal distortion. Up to 10 Amps continuous operating current capability in an 1812 size. Vibration resistant. Excellent performance beyond 1 GHz. Very stable impedance under load.

Size Code	Dimensions (mm)			Typical Impedance Common Mode (Ω)		Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Rated I Max. Continuous (mA)	Digi-Key Part No	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel				Steward Part No.
	A	B	C	@ 100MHz	@ 500MHz					10	50	100		Size	Pricing	Size	Pricing	
1812	4.57	3.05	1.60	33	50	3,000	0.003	10,000	240-2455-1-ND	.51	.44	.41	240-2455-2-ND	2,500	236.00/M	5,000	223.00/M	CM1812X330R-10
	4.57	3.05	2.36	60	85	1,148	0.005	5,000	240-2454-1-ND	.54	.47	.43	240-2454-2-ND	2,500	249.00/M	5,000	235.00/M	CM1812R600R-10
3312	8.50	3.05	2.36	110	155	903	0.005	5,000	240-2500-1-ND	.63	.55	.51	240-2500-2-ND	2,500	293.00/M	5,000	277.00/M	CM3312R111R-10

Common Mode Chip Beads for Power and Signal EMI Filtering

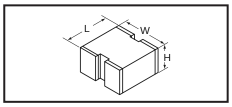

Features:

• Monolithic • Compact size • High current carrying capability • Very low DCR to minimize signal distortion • Smaller, lighter, and less susceptible to vibration than old style wire-wound chokes • Performance peaks beyond 2 GHz • Very stable impedance under load

Size Code	Dimensions (mm)			Typical Impedance Common Mode (Ω)		Peak Impedance Frequency (MHz)	DCR Max. (Ω)	Current Rating I Max. (mA) Continuous	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel						Steward Part No.
	L	W	H	@ 100MHz	@ 500MHz					10	50	100		Size	Pricing	Size	Pricing	Size	Pricing	
Low Profile Surface Mount - Monolithic																				
1922	4.70	5.60	2.84	33	58	3,000	.003	10,000	240-2456-1-ND	.69	.60	.56	240-2456-2-ND	2,500	322.00/M	5,000	304.00/M	10,000	294.00/M	CM1922X330R-10
3322	8.50	5.60	2.10	61	85	3,000	.015	7,000	240-2457-1-ND	.91	.79	.73	240-2457-2-ND	2,500	423.00/M	5,000	398.00/M	10,000	386.00/M	CM3322U610R-10
	8.50	5.60	2.84	63	110	2,882	.008	10,000	240-2458-1-ND	.91	.79	.73	240-2458-2-ND	2,500	423.00/M	5,000	398.00/M	10,000	386.00/M	CM3322X630R-10
High Frequency – Low Profile Surface Mount - Monolithic																				
3322	8.50	5.60	2.10	40	125	2,556	.030	4,000	240-2459-1-ND	.91	.79	.73	240-2459-2-ND	2,500	423.00/M	5,000	398.00/M	10,000	386.00/M	CM3322P400R-10

Common Mode Chokes for Data/Signal Lines and CAN-Bus Applications

Automotive, Medical, Industrial, Consumer Electronics, etc.
Strong low and high frequency impedance!

Surface mount chokes for Control Area Networks (CAN-Bus) and other common mode EMI filtering applications. Current compensated surface mount chokes filter common mode noise currents and minimize emissions from high speed data lines. Also suppress interface with on-board electronics. Available in 1812 and 2824 sizes. Four chokes offer peak impedance below 10 MHz. Over 12,000Ωß at 2 MHz.

Fig.	A	A1 Max.	B	C	C1 Max.	D	T1	T2	Steward Part No. Family
1	7.50	9.00	5.50	3.80	4.90	2.54	1.75	0.50	CC2824xxxxR-x0
2	5.00	5.20	3.50	3.55	—	1.70	1.00	1.00	CC1812xxxxR-x0

Fig. 1

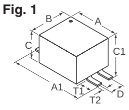

Fig. 2

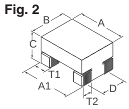

Fig.	Lp Inductance (µH)				Typical Peak Impedance	TRP 100KHz/ 50mV	Hi-Pot (VAC) 0.5 ma, 2 sec.	DCR Typical (Ω)	idc mA	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Steward Part No.
	Test Conditions	Min.	Nom.	Max.							10	50	100		Size	Pricing	
1	100KHz / 50mV	3.5	5.0	6.5	388 Ω @ 500 MHz	1 : 1 ± 5%	250	0.10	1,200	240-2445-1-ND	2.84	2.46	2.28	240-2445-2-ND	1,500	1325.00/M	CC2824J502R-10
	100KHz / 50mV	7.7	11.0	14.3	780 Ω @ 200 MHz	1 : 1 ± 5%	250	0.12	800	240-2446-1-ND	2.98	2.58	2.39	240-2446-2-ND	1,500	1389.00/M	CC2824E113R-10
	100KHz / 50mV	17.5	25.0	32.5	1,971 Ω @ 100 MHz	1 : 1 ± 5%	250	0.13	800	240-2447-1-ND	3.19	2.76	2.55	240-2447-2-ND	1,500	1486.00/M	CC2824E253R-10
	100KHz / 50mV	35.0	51.0	66.3	3,805 Ω @ 50 MHz	1 : 1 ± 5%	250	0.16	800	240-2448-1-ND	3.26	2.82	2.61	240-2448-2-ND	1,500	1518.00/M	CC2824E513R-10
	100KHz / 50mV	329.0	470.0	611.0	8,580 Ω @ 5 MHz	1 : 1 ± 5%	750	0.20	700	240-2449-1-ND	3.19	2.76	2.55	240-2449-2-ND	1,500	1486.00/M	CC2824E474R-10
	100KHz / 50mV	700.0	1000.0	1500.0	4,250 Ω @ 7 MHz	1 : 1 ± 5%	750	0.20	700	240-2450-1-ND	2.77	2.41	2.22	240-2450-2-ND	1,500	1292.00/M	CC2824E105R-10
	10KHz / 50mV	1540.0	2200.0	3300.0	5,278 Ω @ 5 MHz	1 : 1 ± 5%	750	0.40	500	240-2451-1-ND	3.19	2.76	2.55	240-2451-2-ND	1,500	1486.00/M	CC2824D225R-10
	10KHz / 50mV	3290.0	4700.0	7050.0	12,300 Ω @ 2 MHz	1 : 1 ± 5%	750	0.55	400	240-2452-1-ND	3.19	2.76	2.55	240-2452-2-ND	1,500	1486.00/M	CC2824B475R-10
2	100KHz / 50mV	35.7	51.0	66.3	3,530 Ω @ 40 MHz	1 : 1 ± 5%	250	0.50	200	240-2453-1-ND	2.01	1.74	1.61	240-2453-2-ND	2,000	937.00/M	CC1812C513R-10

Common Mode EMI Filters

SMD Common Mode Arrays for Power and Signal EMI Filtering

An advanced family of ferrite common mode choke arrays provides electromagnetic interference EMI filtering for both power and data lines in one part. High continuous operating current capability (5 Amps). Very low normal mode impedance allows desired signals to pass. Parts have no crosstalk. One single part can be used as a multi-line array or installed as a multi-pass choke in series to multiply impedance. Excellent filters for USB, Firewire and RJ11 to RJ45 Modular Data/Power Port applications. DCR Maximum is 0.020 Ω. Will easily fit behind connector port jacks.

Fig. 1

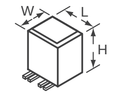

Two Chokes

Fig. 2

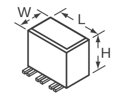

Three Chokes

Fig. 3

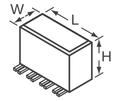

Four Chokes

Fig.	Size Code	Dimensions (mm)			Typical Impedance (Ω)		Current Rating I Max. (A) Continuous	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel						Steward Part No.
		Length	Width	Height	@ 100MHz	@ 300MHz			10	50	100		Size	Pricing	Size	Pricing	Size	Pricing	
1	2722	6.99	5.72	7.62	150	170	5	240-2470-1-ND	.99	.86	.79	240-2470-2-ND	600	276.00	3,000	433.00/M	6,000	420.00/M	CM2722R151R-10
	2722	6.99	5.72	9.53	200	210	5	240-2471-1-ND	1.25	1.08	1.00	240-2471-2-ND	500	289.50	2,500	546.00/M	5,000	529.00/M	CM2722R201R-10
	2722	6.99	5.72	4.32	80	95	5	240-2472-1-ND	.95	.83	.76	240-2472-2-ND	1,000	443.00	5,000	417.00/M	10,000	405.00/M	CM2722R800R-10
2	3822	9.78	5.72	7.62	150	170	5	240-2473-1-ND	1.07	.93	.86	240-2473-2-ND	600	298.80	3,000	469.00/M	6,000	455.00/M	CM3822R151R-10
	3822	9.78	5.72	4.32	80	95	5	240-2475-1-ND	1.02	.88	.82	240-2475-2-ND	1,000	473.00	5,000	446.00/M	10,000	432.00/M	CM3822R800R-10
	3822	9.78	5.72	9.53	200	210	5	240-2474-1-ND	1.44	1.25	1.15	240-2474-2-ND	500	334.50	2,500	630.00/M	5,000	611.00/M	CM3822R201R-10
3	5022	12.57	5.72	7.62	150	170	5	240-2476-1-ND	1.31	1.14	1.05	240-2476-2-ND	600	366.60	3,000	576.00/M	6,000	559.00/M	CM5022R151R-10
	5022	12.57	5.72	9.53	200	210	5	240-2477-1-ND	1.69	1.47	1.36	240-2477-2-ND	375	295.50	1,875	743.01/M	3,750	720.00/M	CM5022R201R-10
	5022	12.57	5.72	4.32	80	95	5	240-2478-1-ND	1.21	1.05	.97	240-2478-2-ND	1,000	565.00	5,000	532.00/M	10,000	516.00/M	CM5022R800R-10

(Continued)

Steward Common Mode EMI Filters *(Cont.)*

Common Mode Chokes for Ultra High Current Power EMI Filtering (Capable of 8 to 75 Amps Continuous Operation)

Fig. 1 – Two Chokes

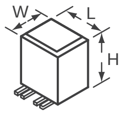

Fig. 2 – Three Chokes

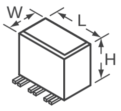

Fig. 3 – Four Chokes

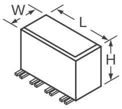

Features: • Surface mount design • Filters groups of signals. • Multi pass board layout application can effectively install 2, 3 or 4 chokes in series to multiply impedance up to 1000 Ω at 100 MHz • High continuous operating current capability (8 Amps) • Will fit behind RJ45 Jack • Eliminates the need for an expensive filtered connector • Surface mount • Very low DCR

Fig. 4 – One Choke

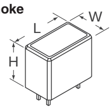

Features:
- High continuous operating current capability (10 – 20 Amps)
- Compact size
- Parts available in both thru-hole (B) and surface mount (R) versions

Fig. 5

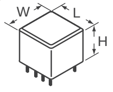

Features: • Can be used as multi-pass device to multiply impedance • Parts available in both thru-hole (B) and surface mount (R) versions

Fig. 6 – One Choke

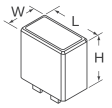

Features:
- High continous operating current capability (10 – 20 Amps)
- Small footprint
- Smaller and lighter than older style wire wound high current chokes
- Very low DCR

Fig. 7

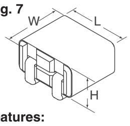

Features:
- Surface mount design
- High continuous operating current (15 Amps)
- Low profile
- Low DCR
- Resistant to board flex stress

Fig.	Size Code	Dimensions (mm)			Common Mode Impedance (Ω)		Current Rating I Max. (A) Continuous	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel						Steward Part No.
		L	W	H	@ 100MHz	@ 300MHz			1	10	50	100		Size	Pricing	Size	Pricing	Size	Pricing	
High Power Surface Mount																				
7	2021	5.60	5.00	2.85	33	35	**15**	240-2502-1-ND	—	.83	.72	.66	240-2502-2-ND	2,500	385.00/M	5,000	363.00/M	10,000	352.00/M	CM2021Y330R-10
4	2545	11.38	6.30	9.32	170	180	**10**	240-2460-1-ND‡	—	1.05	.91	.84	240-2460-2-ND	400	194.40	2,000	458.00/M	4,000	444.00/M	CM2545X171R-10
1	3032	7.62	8.13	9.45	200	205	**8**	240-2461-1-ND	—	1.32	1.15	1.06	240-2461-2-ND	250	154.00	1,250	581.00/M	2,500	563.00/M	CM3032V201R-10
1	3032	7.62	8.13	14.48	300	295	**8**	240-2462-1-ND	—	1.59	1.38	—	240-2462-2-ND	100	74.00	500	349.00	1,000	677.00	CM3032V301R-10
7	3421	8.68	5.60	2.85	60	65	**15**	240-2501-1-ND	—	.76	.66	.61	240-2501-2-ND	2,500	354.00/M	5,000	334.00/M	10,000	324.00/M	CM3421Y600R-10
4	3440	10.03	8.51	9.32	170	170	**20**	240-2463-1-ND‡	—	1.17	1.01	.94	240-2463-2-ND	375	203.63	1,875	512.00/M	3,750	497.00/M	CM3440Z171R-10
5	4545	11.38	11.38	9.32	130	145	**10**	240-2464-1-ND‡	—	1.38	1.20	1.11	240-2464-2-ND	400	257.60	2,000	607.00/M	4,000	589.00/M	CM4545Z131R-10
2	4732	11.94	8.13	9.45	200	220	**8**	240-2465-1-ND	—	1.63	1.41	1.31	240-2465-2-ND	400	303.60	2,000	715.00/M	4,000	694.00/M	CM4732V201R-10
2	4732	11.94	8.13	14.48	300	305	**8**	240-2466-1-ND	—	1.92	1.67	—	240-2466-2-ND	150	134.40	750	633.00	1,500	819.00/M	CM4732V301R-10
5	5740	14.48	10.03	9.32	170	190	**20**	240-2467-1-ND‡	—	1.33	1.16	1.07	240-2467-2-ND	375	232.50	1,875	584.00/M	3,750	567.00/M	CM5740Z171R-10
3	6032	15.24	8.13	9.45	200	210	**8**	240-2468-1-ND	—	1.67	1.45	1.34	240-2468-2-ND	250	194.75	1,250	735.00/M	2,500	712.00/M	CM6032V201R-10
3	6032	15.24	8.13	14.48	300	300	**8**	240-2469-1-ND	—	1.99	1.73	—	240-2469-2-ND	100	92.90	500	438.00	1,000	849.00	CM6032V301R-10
High Current Thru Hole																				
4	2545	11.38	6.30	9.32	170	175	**10**	240-2485-ND†	.81	.67	.58	.52	—	—	—	—	—	—	—	CM2545X171B-10
5	4545	11.38	11.38	9.32	130	145	**10**	240-2486-ND†	.95	.79	.68	.61	—	—	—	—	—	—	—	CM4545Z131B-10
Ultra High Current Thru Hole																				
4	3440	10.03	8.51	9.32	170	175	**20**	240-2487-ND†	.90	.75	.65	.58	—	—	—	—	—	—	—	CM3440Z171B-10
6	5441	13.72	10.41	15.24	160	150	**75**	240-2488-ND†	1.69	1.41	1.21	1.09	—	—	—	—	—	—	—	CM5441Z161B-10
6	5441	13.72	10.41	10.52	100	112	**75**	240-2489-ND†	1.61	1.34	1.15	1.04	—	—	—	—	—	—	—	CM5441Z101B-10
5	5740	14.48	10.03	9.32	170	175	**20**	240-2490-ND†	1.05	.88	.76	.68	—	—	—	—	—	—	—	CM5740Z171B-10

† Bulk Packaging ‡ SMT

240-2228-ND *(Steward K-103) High Current (4A to 75A) Common Mode Sample Kit (4 each of 25 different parts)* **$45.00**

Differential Mode Surface Mount and Through Hole Ferrite EMI Filters

Differential Mode Multi-Line Arrays for Power EMI Filtering

3, 4, 5, & 8 Line Filters Rated up to 10 Amps Continuous Operation

These multi-line ferrite products provide economical EMI filtering of differential mode noise in surface mount and through-hole PCB applications. They are designed to provide high frequency suppression of both common and differential mode EMI noise on groups of data/power lines. The surface mount differential mode EMI filters are rated for up to 9 Amps continuous operation per filtered line (channel) and the thru hole filters are rated up to 10 Amps continuous operation per line. Rugged construction provides protection against transient events as well as much higher peak current handling capability than most other EMI suppression devices. Low DCR.

Fig. 1 – Surface Mount (R)

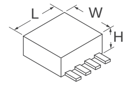

Fig. 2 – Through Hole (T)

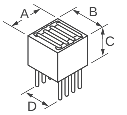

Surface Mount

Fig.	Dimensions - mm			Typ. Impedance (Ω)		Current Rating I Max. Continuous	No. of Lines	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel						Steward Part No.
	L	W	H	@ 100MHz	@ 300MHz				10	50	100		Size	Pricing	Size	Pricing	Size	Pricing	
1	8.33	10.87	6.35	200	210	9 Amps	3	240-2441-1-ND	9.06	39.24	72.45	240-2441-2-ND	450	190.35	2,250	398.00/M	4,500	386.00/M	29F0330-2SR-10
	6.10	4.50	4.19	119	120	6 Amps	4	240-2442-1-ND	9.36	40.58	74.91	240-2442-2-ND	900	393.30	4,500	412.00/M	9,000	400.00/M	29F0418-1SR-10
	10.87	10.87	6.35	200	210	9 Amps	4	240-2443-1-ND	10.10	43.78	80.82	240-2443-2-ND	450	211.95	2,250	445.00/M	4,500	431.00/M	29F0430-2SR-10
	11.43	4.50	4.19	119	120	6 Amps	8	240-2444-1-ND	13.06	56.60	104.49	240-2444-2-ND	900	549.00	4,500	575.00/M	9,000	557.00/M	29F0818-1SR-10

Though Hole

Fig.	No. of Lines	Dimensions (mm)				Current Rating I Max. Continuous	Typical Impedance (Ω)		Digi-Key Part No.	Price Each				Steward Part No.
		A	B	C	D		@ 100MHz	@ 300MHz		1	10	50	100	
2	4	10.87	10.87	10.57	7.62	10 Amps	342	400	240-2494-ND	.72	.60	.52	.47	29F0428-0T0-10
	4	10.87	5.49	10.44	2.54	10 Amps	285	290	240-2495-ND	.54	.45	.39	.35	29F0429-0T0-10
	5	13.41	10.87	10.57	7.62	10 Amps	342	400	240-2496-ND	.86	.71	.62	.56	29F0528-0T0-10

Axial Lead Ferrite Beads for Broad Band EMI Filtering

Through Hole Applications

Steward's two-terminal axial lead ferrite beads provide economical filtering for differential mode EMI suppression applications. Constructed using a continuous 22 gauge conductor, these devices are able to withstand high peak currents that can destroy other surface mount devices. Thru hole installation. Low DCR.

Fig. 1

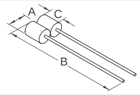

Fig. 2

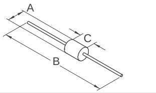

Fig.	Dimensions - mm			Typical Impedance (Ω)		Current Rating I Max. (A) Continuous	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel				Steward Part No.
	A	B	C	@ 100MHz	@ 300MHz			10	50	100		Size	Pricing	Size	Pricing	
1	3.51	25.40	4.45	143	165	5	240-2437-1-ND	.99	4.27	7.89	240-2437-2-ND	1,800	46.00/M	5,400	43.00/M	28J0138-11R-10
2	3.51	59.00	4.45	75	80	5	240-2438-1-ND	.53	2.31	4.26	240-2438-2-ND	4,500	25.00/M	9,000	23.00/M	28L0138-10R-10
2	3.51	59.00	8.89	135	138	5	240-2439-1-ND	.72	3.10	5.73	240-2439-2-ND	4,500	33.00/M	9,000	32.00/M	28L0138-40R-10
2	3.51	59.00	13.97	220	210	5	240-2440-1-ND	.90	3.92	7.23	240-2440-2-ND	4,500	42.00/M	9,000	40.00/M	28L0138-70R-10

Wound Bead Chokes for Differential Mode EMI Filtering

Broad Band EMI Filtering - Through Hole

Multi-aperture, multiple turn ferrite chokes. Three turn configurations provide lossy impedance over 1,000 Ω. These parts offer excellent broadband frequency performance. Current rating is up to 7 Amps continuous operation. Parts shown in figure three have a 1.26mm plastic spacer

Fig. 1

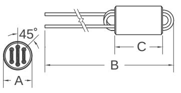

Fig. 2

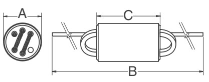

Fig. 3

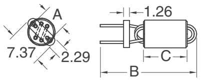

Fig.	Dimensions - mm			Current Rating I Max. (A) Continuous	Typical Impedance (Ω)		Digi-Key Part No.	Pricing				Steward Part No.
	A	B	C		@ 50MHz	@ 100MHz		1	10	50	100	
1	6.00	50.53	10.00	7	845	1,000	240-2492-ND	.19	1.55	6.70	12.06	28C0236-0EW-10
2	6.00	86.46	10.00	7	700	835	240-2491-ND	.16	1.32	5.68	10.22	28C0236-0BW-10
3	6.00	20.96	10.00	7	845	1,000	240-2493-ND	.20	1.65	7.11	12.80	28C0236-0JW-10

Steward

Ferrite EMI Disks and Plates with Adhesive

Steward's Ferrite Disks and Plates provide a simple, cost-effective solution for radiated and inductively coupled electromagnetic interference. After the PC board soldering process, a ferrite disk or plate can be installed directly on the source of EMI (such as active devices or unwanted antennas). Can also be utilized either as inductively-coupled components or EMI shields on PC board components and traces.

Inductive Coupling occurs when the ferrite affects the conducted wave form leaving the active component. The rise time of the wave form is effectively slowed by the ferrite, and the overshoot and associated ringing are attenuated. EMI shielding occurs when the ferrite absorbs the radiated EMI emissions from active components, effectively protecting other boards or components in the vicinity from radiated contamination. Performance varies with each application.

Features: • Parts have 3M double sided permanent adhesive • Can be used to locate unwanted EMI antennas • Flat Flex and Ribbon Cable Shields • Provides retrofit auxiliary EMI attenuation

Fig. 1 – Disks

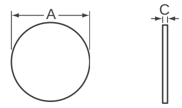

Fig. 2 – Plates

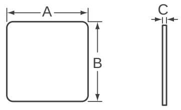

240-2247-ND Ferrite EMI Disk and Plate Kit (5 each of 20 different part numbers)
"Sample kit contains parts with temporary adhesives so they can be repositioned" **$30.00**

Fig.	Dimensions (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Steward Part No.
Disks								
1	20.00	—	1.27	240-2248-ND†	.52	.43	.37	HM0787-100
	20.00	—	1.91	240-2249-ND†	.54	.45	.39	HM0787-200
	35.56	—	1.91	240-2250-ND†	1.02	.85	.73	HM1400-200
	35.56	—	2.54	240-2251-ND†	1.09	.91	.78	HM1400-300
	16.51	—	1.27	240-2252-ND	.48	.40	.34	MM0650-100
1	20.00	—	1.27	240-2253-ND	.52	.43	.38	MM0787-100
	20.00	—	1.91	240-2254-ND	.54	.45	.39	MM0787-200
	35.56	—	1.91	240-2255-ND	1.01	.84	.73	MM1400-200
	35.56	—	2.54	240-2256-ND	1.04	.86	.75	MM1400-300
Plates								
2	26.42	26.42	1.27	240-2257-ND†	.79	.66	.57	HP1040-100
	26.42	26.42	1.91	240-2258-ND†	.80	.67	.58	HP1040-200
	8.00	8.00	2.00	240-2259-ND	.46	.38	.33	MP0315-200
	26.42	8.89	1.27	240-2260-ND	.58	.49	.42	MP0350-000
	11.00	11.00	2.00	240-2261-ND	.41	.35	.30	MP0433-000
2	13.00	13.00	2.00	240-2262-ND	.44	.37	.32	MP0512-200
	21.00	15.00	2.00	240-2263-ND	.52	.44	.38	MP0590-200
	15.00	15.00	2.00	240-2264-ND	.48	.40	.35	MP0591-200
	19.30	19.30	1.27	240-2265-ND	.68	.56	.49	MP0760-100
	26.42	26.42	1.27	240-2266-ND	.79	.66	.57	MP1040-100
2	26.42	26.42	1.91	240-2267-ND	.87	.72	.62	MP1040-200
	38.00	38.00	2.00	240-2268-ND	1.19	.99	.86	MP1496-000

† for Higher EMI Frequencies

Broad Band (30 MHz – 900 MHz Optimized) Ribbon & Flex Cable Ferrite Cores for EMI

One Piece Ferrite EMI Cores for Flat Cables: Cable must be inserted into the ferrite cores before cable ends are connected for figures 1 and 2. Parts made from high performance material.

Split Ribbon Cable Core Assemblies with Hinged Plastic Cases: Conveniently contain both ferrite core halves within the same fully assembled, hinged black plastic case. Order one part for each assembly

Split Ribbon Cable Cores with Plastic End Clips: Easy to use where assembled cable connectors prevent the use of one piece ferrite cores. White end clips provide secure closure of ferrite parts onto the flat cable. Tabs with screw holes for mounting the assembly included. Order two parts for each assembly.

Split Ribbon Cable Cores with Metal Clips: Split ferrite cores for flat ribbon cables clamp together with small metal clips that provide secure closure. Order two parts for each assembly.

Fig. 1 – One Piece Ferrite

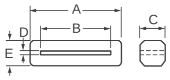

Fig. 2 One Piece Ferrite

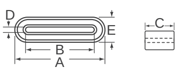

Fig. 3 – Assembly with hinged plastic case

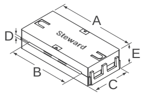

Fig. 4 – Split Ferrite

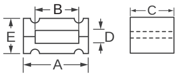

Assembled Example of two plastic clipped parts (_P0)

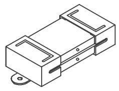

Assembled Example of two metal clipped parts (_M0)

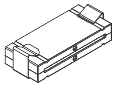

Fig.	Dimensions (mm) A	B	C	D	E	Typical Impedance (Ω) @ 100 MHz	@300 MHz	Digi-Key Part No.	Pricing 1	2	10	50	100	Steward Part No.
Rectangular Shaped One Piece Ferrite EMI Cores for Flat Cables														
1	8.00	6.00	12.00	0.70	2.70	102	250	240-2320-ND	.25	—	2.06	8.89	16.00	28R0315-200
	11.50	8.00	12.00	0.70	3.00	104	260	240-2155-ND	.30	—	2.47	10.64	19.15	28R0453-200
	11.50	8.00	20.00	0.70	3.00	160	330	240-2321-ND	.30	—	2.45	10.55	18.99	28R0453-300
	12.20	8.00	18.00	1.00	5.50	190	320	240-2156-ND	.25	—	2.07	8.93	16.07	28R0480-000
	15.01	10.00	22.86	1.50	7.49	227	370	240-2229-ND	.48	—	4.00	17.23	31.01	28R0592-010
1	17.00	13.00	12.00	0.75	3.50	110	270	240-2157-ND	.31	—	2.55	10.99	19.78	28R0669-000
	22.35	14.00	19.05	1.50	7.75	187	356	240-2082-ND	.60	—	4.99	21.49	38.68	28R0880-000
	22.80	18.70	16.00	0.70	2.80	127	290	240-2161-ND	.35	—	2.92	12.60	22.68	28R0898-200
	28.00	23.00	20.00	0.80	5.80	192	380	240-2162-ND	.59	—	4.89	21.08	37.94	28R1102-100
	28.00	23.00	27.00	1.10	6.10	230	480	240-2325-ND	.69	—	5.73	24.70	44.46	28R1103-000
1	31.12	24.77	13.30	1.91	8.26	128	300	240-2327-ND	.62	—	5.10	21.98	39.56	28R1227-100
	31.40	23.00	19.00	1.50	7.75	162	370	240-2328-ND	.70	—	5.81	25.05	45.09	28R1236-000
	31.40	23.00	21.00	1.00	7.75	211	440	240-2329-ND	.82	—	6.78	29.24	52.63	28R1240-010
	38.10	26.67	25.40	1.91	12.07	230	520	240-2084-ND	1.54	—	12.79	55.11	99.20	28R1517-000
	45.08	34.42	28.58	1.52	12.45	260	530	240-2086-ND	2.16	—	17.87	77.03	138.65	28R1775-000
1	63.50	52.07	28.58	1.68	12.70	298	588	240-2088-ND	3.05	—	25.28	108.95	196.11	28R1779-000
	63.50	52.07	12.98	1.68	12.70	170	375	240-2335-ND	1.38	—	11.42	49.23	88.61	28R1779-100
	45.72	35.05	27.94	1.52	12.70	260	555	240-2336-ND	2.19	—	18.14	78.19	140.74	28R1800-010
	47.70	36.00	27.00	2.74	15.24	244	507	240-2337-ND	2.49	—	20.62	88.89	160.00	28R1861-000
	50.80	40.60	15.20	2.00	12.20	170	380	240-2338-ND	1.38	—	11.46	49.40	88.92	28R2000-010
1	55.12	43.69	25.40	1.27	12.70	280	550	240-2090-ND	2.42	—	20.05	86.44	155.59	28R2170-000
	55.12	43.69	12.70	1.27	12.70	170	370	240-2092-ND	1.38	—	11.44	49.33	88.79	28R2170-100
	79.98	68.58	12.70	1.91	11.99	135	318	240-2094-ND	1.56	—	12.91	55.64	100.15	28R3149-000
Oval Shaped One Piece Ferrite EMI Cores for Flat Cables														
2	15.50	13.50	10.00	1.40	3.40	80	216	240-2322-ND	.28	—	2.29	9.85	17.73	28R0610-000
	19.20	15.00	10.00	1.15	5.35	107	258	240-2323-ND	.35	—	2.89	12.46	22.43	28R0756-000
	19.20	15.00	16.00	1.15	5.35	150	300	240-2159-ND	.30	—	2.51	10.80	19.44	28R0756-200
	25.00	18.00	24.00	0.90	7.70	220	430	240-2160-ND	.70	—	5.82	25.09	45.16	28R0984-000
	25.00	18.00	16.00	0.90	7.70	170	370	240-2324-ND	.58	—	4.84	20.88	37.58	28R0984-200
2	28.58	23.50	31.00	1.70	7.70	220	430	240-2230-ND	.91	—	7.56	32.60	58.68	28R1127-000
	28.58	23.50	17.00	1.70	7.70	150	330	240-2231-ND	.61	—	5.04	21.73	39.11	28R1127-400
	28.58	23.50	9.70	1.70	7.70	110	265	240-2326-ND	.38	—	3.16	13.64	24.55	28R1127-500
	37.00	27.00	18.25	1.50	8.00	168	380	240-2163-ND	.78	—	6.49	27.96	50.33	28R1141-010
	32.00	25.10	35.00	0.90	7.75	350	700	240-2330-ND	1.27	—	10.53	45.40	81.72	28R1261-100
2	32.00	25.10	9.70	0.90	7.75	135	310	240-2331-ND	.46	—	3.77	16.25	29.25	28R1261-200
	34.00	28.00	25.00	1.00	7.00	220	449	240-2332-ND	.87	—	7.19	30.98	55.76	28R1340-200
	36.83	29.58	10.00	0.75	7.75	130	290	240-2164-ND	.55	—	4.55	19.61	35.30	28R1450-100
	37.01	33.00	13.46	0.51	4.50	140	310	240-2333-ND	.45	—	3.74	16.10	28.98	28R1457-400
	42.00	37.50	5.00	0.70	5.00	84	200	240-2334-ND	.39	—	3.27	14.09	25.36	28R1654-010
2	49.61	44.00	12.00	1.45	7.62	127	300	240-2165-ND	.74	—	6.13	26.41	47.54	28R1953-000
Split Ribbon Cable Core Assemblies with Hinged Plastic Cases														
3	67.08	52.07	27.53	1.68	16.66	236	480	240-2341-ND	4.16	—	34.46	148.53	267.35	28S2001-2A2
Split Ribbon Cable Cores with Plastic End Clips														
4	63.50	52.07	28.58	1.68	12.7	280	590	240-2097-ND*	—	4.41	18.26	78.69	141.64	28S2001-0P0
	76.20	65.28	28.58	1.68	12.7	280	600	240-2099-ND*	—	4.67	19.36	83.46	150.23	28S2011-0P0
	45.09	34.42	28.58	1.68	12.7	250	550	240-2103-ND*	—	3.54	14.65	63.13	113.63	28S2022-0P0
Split Ribbon Cable Cores with Metal End Clips														
4	63.50	52.07	28.58	1.68	12.7	280	590	240-2096-ND*	—	4.01	16.62	71.63	128.93	28S2001-0M0
	63.50	52.07	12.98	1.68	12.7	150	340	240-2340-ND*	—	2.20	9.10	39.23	70.61	28S2001-1M0
	76.20	65.28	28.58	1.68	12.7	280	600	240-2098-ND*	—	4.28	17.72	76.40	137.52	28S2011-0M0
	88.90	78.23	28.58	1.68	12.96	240	630	240-2100-ND*	—	5.55	22.99	99.10	178.38	28S2012-0M0
	45.09	34.42	28.58	1.68	12.7	250	550	240-2102-ND*	—	3.14	12.99	56.00	100.80	28S2022-0M0
	38.10	26.67	25.40	1.68	12.7	250	520	240-2104-ND*	—	2.48	10.26	44.23	79.61	28S2023-0M0
Extra Accessories														
—	Extra Plastic End Clip with Mounting Hole for a Split Ribbon Cable Core							240-2345-ND	.13	—	1.04	4.49	8.08	ASSE001-2
	Extra Metal End Clip for Split Ribbon Cable Core							240-2346-ND	.14	—	1.17	5.06	9.11	ASSE017-2

* ***Note:*** Split ribbon cable cores require two ferrite pieces per one complete assembly (except split cores in fully assembled hinged plastic cases).

240-2507-ND Ferrite EMI Cores for Flat Ribbon and Flex Cables (3-11 each of 36 different sizes).. **$60.00**

Ferrite EMI Cores for Cables and Wiring Harnesses

Low Frequency (300 KHz – 30 MHz) Cores for Round Cables

Steward LFB ferrite material provides excellent impedance at lower frequencies. Optimum EMI attenuation is between 300 KHz and 30 MHz however, with additional wire turns, much broader EMI frequencies can be effectively attenuated.

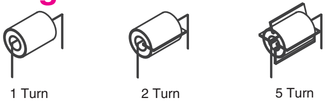

Additional wire turns will multiply impedance.

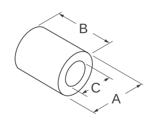

Dimensions (mm)			Net Impedance (Ω)						Digi-Key	Pricing					Steward
			@ 1 MHz (1 Turn)	@ 1 MHz (2 Turn)	@ 1 MHz (5 Turn)	@ 5 MHz (1 Turn)	@ 5 MHz (2 Turn)	@ 5 MHz (5 Turn)							
A	B	C							Part No.	1	10	50	100	500	Part No.
9.00	7.00	5.00	21	90	558	36	140	867	240-2135-ND	.14	1.16	5.00	9.00	36.00	LFB090050-000
9.50	19.05	5.10	63	240	1464	86	332	2514	240-2277-ND	.37	3.10	13.35	24.03	96.12	LFB095051-000
12.70	7.00	7.92	16	70	436	25	102	593	240-2278-ND	.19	1.55	6.68	12.02	48.06	LFB127079-000
14.27	28.58	6.35	122	490	2842	120	480	2646	240-2279-ND	1.17	9.68	41.71	75.08	300.33	LFB143064-000
14.27	13.46	6.35	57	220	1169	53	215	1552	240-2136-ND	.61	5.03	21.69	39.04	156.15	LFB143064-100
15.88	28.58	7.87	105	410	2615	100	390	2305	240-2281-ND	1.17	9.68	41.71	75.08	300.33	LFB159079-000
17.40	28.58	9.50	91	350	2184	85	340	2044	240-2282-ND	1.40	11.61	50.05	90.09	360.36	LFB174095-000
18.10	10.00	10.00	31	138	809	29	115	722	240-2283-ND	.42	3.48	15.01	27.02	108.09	LFB180100-000
18.70	28.58	10.16	91	350	1969	84	330	1863	240-2284-ND	1.59	13.16	56.73	102.11	408.42	LFB187102-000
22.10	12.70	14.00	30	30	120	28	110	699	240-2137-ND	.70	5.81	25.03	45.05	180.18	LFB220140-000
25.00	13.00	15.00	34	105	980	26	80	624	240-2285-ND	.75	6.19	26.69	48.04	192.15	LFB250150-000
25.91	28.58	12.83	106	420	2647	62	240	1487	240-2138-ND	2.15	17.80	76.74	138.13	552.51	LFB259128-000
28.98	15.21	19.05	34	155	963	22	70	573	240-2286-ND	1.14	9.48	40.88	73.58	294.30	LFB290190-000
31.00	13.00	19.00	33	33	143	22	88	554	240-2139-ND	1.05	8.71	37.54	67.57	270.27	LFB310190-000
36.00	15.00	23.00	27	110	653	19	75	438	240-2287-ND	1.35	11.23	48.39	87.10	348.39	LFB360230-300

240-2508-ND Ferrite Low Frequency EMI Cores for Round Cables and Wire Bundles (4-16 each of 15 different sizes)........ **$60.00**

Ferrite Cylinders and Toroids for Electromagnetic Interference (EMI) Broad Band (optimized 30 MHz – 800 MHz +) Bead Cores for Round Cables & Wire Bundles

Fig. 1

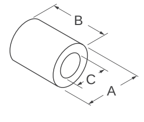

Fig. 2

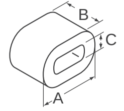

One-piece ferrite tubular bead cores for effectively attenuating a broad range of conducted and radiated electromagnetic interference (EMI). Install over round cables or wire bundles. Ferrite beads can be over molded or covered with heat shrink coating if desired. Additional wire turns will multiply impedance. Steward's cylindrical beads for round cables in Broad Band 28 material provide the smallest and most cost effective EMI solution when filtering both common mode and differential mode EMI on internal and external cable assemblies. By using Steward's high performance material, one is able to use the smallest and lowest weight core size possible with the highest EMI attenuation performance available.

	Dimensions (mm)			Typical Impedance Ω			Digi-Key	Pricing					Steward
Fig.	A	B	C	@ 50 MHz	@ 100 MHz	@ 300 MHz	Part No.	1	10	50	100	500	Part No.
1	6.35	15.88	3.18	131	182	300	240-2289-ND	.16	1.30	5.60	10.08	40.32	28B0250-100
	6.78	14.22	3.99	100	138	260	240-2112-ND	.14	1.15	4.95	8.91	35.64	28B0268-000
	7.00	13.50	3.80	84	146	268	240-2290-ND	.15	1.26	5.44	9.79	39.15	28B0275-000
	8.00	4.78	3.17	69	100	220	240-2291-ND	.10	.82	3.54	6.37	25.47	28B0315-000
	8.00	10.06	3.17	112	158	281	240-2292-ND	.18	1.46	6.29	11.32	45.27	28B0315-100
1	8.60	10.00	3.80	85	143	264	240-2293-ND	.16	1.35	5.80	10.44	41.76	28B0339-000
	9.00	10.00	4.50	93	132	254	240-2294-ND	.16	1.34	5.78	10.40	41.58	28B0354-000
	9.00	20.00	4.75	148	205	360	240-2295-ND	.26	2.16	9.33	16.79	67.14	28B0355-000
	9.53	14.48	5.08	114	154	282	240-2067-ND	.21	1.72	7.43	13.37	53.46	28B0375-100
	9.53	19.05	5.08	146	194	310	240-2113-ND	.24	1.99	8.58	15.44	61.74	28B0375-300
1	9.53	4.83	5.08	52	81	200	240-2296-ND	.12	.99	4.29	7.72	30.87	28B0375-400
	9.75	10.00	3.80	125	159	286	240-2297-ND	.22	1.82	7.86	14.15	56.61	28B0384-000
	9.75	25.00	3.80	254	322	473	240-2298-ND	.39	3.26	14.06	25.31	101.25	28B0384-200
	9.91	15.00	6.35	88	128	248	240-2299-ND	.19	1.61	6.95	12.51	50.04	28B0390-200
	12.00	10.00	3.55	152	195	320	240-2240-ND	.25	2.08	8.96	16.13	64.53	28B0473-000
1	12.00	25.00	3.55	318	424	558	240-2241-ND	.54	4.48	19.30	34.74	138.96	28B0473-200
	12.32	25.40	4.88	253	320	450	240-2114-ND	.54	4.47	19.28	34.70	138.78	28B0485-000
	12.70	6.35	7.92	52	83	200	240-2301-ND	.17	1.41	6.06	10.91	43.65	28B0500-100
	14.27	10.16	6.35	101	145	270	240-2302-ND	.32	2.63	11.35	20.43	81.72	28B0562-000
	14.27	28.58	6.35	262	317	470	240-2078-ND	.47	3.87	16.68	30.02	120.06	28B0562-200
1	14.27	15.24	7.26	121	173	295	240-2303-ND	.45	3.72	16.05	28.89	115.56	28B0563-000
	14.27	28.57	7.26	197	287	406	240-2304-ND	.64	5.33	22.98	41.36	165.42	28B0563-200
	14.48	5.51	8.51	51	82	200	240-2305-ND	.21	1.70	7.34	13.21	52.83	28B0570-000
	15.00	35.00	5.90	348	450	580	240-2242-ND	.84	6.95	29.94	53.89	215.55	28B0591-200
	15.65	28.58	7.00	232	310	450	240-2306-ND	.76	6.32	27.25	49.05	196.20	28B0616-000
1	15.88	14.27	7.87	87	163	273	240-2307-ND	.48	3.99	17.20	30.96	123.84	28B0625-000
	15.88	28.58	7.87	209	280	400	240-2115-ND	.74	6.13	26.43	47.57	190.26	28B0625-100
	16.00	28.00	9.25	171	243	370	240-2308-ND	.68	5.61	24.20	43.56	174.24	28B0631-100
	17.00	25.00	7.01	226	323	445	240-2309-ND	.75	6.25	26.93	48.47	193.86	28B0669-000
	17.42	6.35	9.52	61	91	214	240-2310-ND	.26	2.17	9.36	16.85	67.41	28B0686-000
1	17.42	28.57	9.52	191	242	390	240-2079-ND	.77	6.34	27.33	49.19	196.74	28B0686-200
	18.67	28.58	10.16	197	250	400	240-2080-ND	.88	7.32	31.56	56.81	227.25	28B0735-000
	18.67	14.27	10.16	108	150	270	240-2311-ND	.58	4.78	20.61	37.10	148.41	28B0735-300
	22.10	6.35	13.72	53	85	205	240-2312-ND	.37	3.07	13.23	23.81	95.22	28B0870-000
	22.10	12.70	13.72	80	122	236	240-2116-ND	.59	4.88	21.05	37.89	151.56	28B0870-100
1	25.40	12.70	15.49	83	122	247	240-2313-ND	.72	5.97	25.74	46.33	185.31	28B0999-000
	25.40	12.70	12.70	106	151	278	240-2117-ND	.77	6.39	27.54	49.57	198.27	28B1000-000
	25.91	28.58	12.83	104	276	412	240-2081-ND	1.69	13.99	60.31	108.56	434.25	28B1020-100
	28.50	28.58	13.77	218	307	440	240-2243-ND	2.06	17.10	73.70	132.66	530.64	28B1122-100
	29.01	7.49	19.00	53	85	200	240-2118-ND	.56	4.61	19.88	35.78	143.10	28B1142-000
1	29.01	13.84	19.00	77	114	235	240-2314-ND	.84	6.93	29.85	53.73	214.92	28B1142-100
	31.12	15.93	19.05	100	140	270	240-2315-ND	1.12	9.28	40.01	72.02	288.09	28B1225-000
	31.12	10.00	19.05	70	110	240	240-2316-ND	.76	6.27	27.04	48.67	194.67	28B1225-300
	31.75	22.22	19.05	134	186	292	240-2119-ND	1.67	13.85	59.71	107.48	429.93	28B1250-000
	36.00	12.70	23.00	78	115	230	240-2317-ND	1.13	9.37	40.39	72.70	290.79	28B1417-200
1	39.12	22.22	16.76	204	254	405	240-2319-ND	3.24	26.88	115.88	208.58	834.30	28B1540-000
	50.80	28.70	25.40	218	305	442	240-2244-ND	6.50	53.85	232.13	417.83	1671.30	28B2000-100
	60.96	12.70	35.56	90	135	285	240-2120-ND	3.30	27.32	117.75	211.95	847.80	28B2400-000
2	38.86	28.58	12.95	161	210	347	240-2318-ND	2.39	19.80	85.34	153.61	614.43	28B1531-000
	19.64	12.70	5.10	100	141	273	240-2497-ND	.58	4.82	20.79	37.42	149.67	28B0773-050

240-2505-ND Ferrite Broadband EMI Cores for Round Cables and Wire Bundles (1-12 each of 36 part sizes)........ **$60.00**

(Continued)

Steward Ferrite EMI Cores for Cables and Wiring Harnesses *(Cont.)*

High Frequency (300 MHz – 2 GHz) Cylindrical Cores for Round Cables

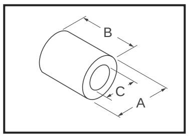

Made from special high frequency material, these ferrite cylinders and toroids have EMI attenuation (impedance) that peaks above 1 GHz for most part sizes. Also available in split clamp-on shapes (in plastic cases) listed at the bottom of this page. Size and shape of the part can affect performance and frequency response.

Dimensions (mm)			Net Impedance (Ω)		Digi-Key	Pricing					Steward
A	B	C	@ 500 MHz	@ 800 MHz	Part No.	1	10	50	100	500	Part No.
7.52	10.00	2.39	136	138	240-2146-ND	.18	1.45	6.26	11.27	45.09	HFB075024-000
9.52	10.00	5.08	74	85	240-2145-ND	.21	1.77	7.65	13.77	55.08	HFB095051-100
9.52	19.00	5.08	135	183	240-2140-ND	.29	2.42	10.41	18.74	74.97	HFB095051-200
12.32	5.00	4.88	56	62	240-2269-ND	.21	1.75	7.53	13.55	54.18	HFB123049-000
12.32	10.00	4.88	110	127	240-2149-ND	.30	2.50	10.78	19.40	77.58	HFB123049-100
12.32	25.40	4.88	287	305	240-2270-ND	.76	6.29	27.10	48.78	195.12	HFB123049-300
14.27	5.00	6.35	50	64	240-2271-ND	.25	2.08	8.96	16.13	64.53	HFB143064-000
14.27	10.00	6.35	100	113	240-2147-ND	.38	3.15	13.58	24.44	97.74	HFB143064-100
14.27	28.58	6.35	315	306	240-2148-ND	.90	7.46	32.16	57.89	231.57	HFB143064-300
14.99	28.58	6.99	287	279	240-2150-ND	.97	8.03	34.63	62.33	249.30	HFB150070-200
15.24	10.00	3.38	190	189	240-2151-ND	.52	4.31	18.56	33.41	133.65	HFB152034-000
15.65	20.00	6.99	200	216	240-2273-ND	.83	6.88	29.65	53.37	213.48	HFB157070-000
15.88	28.58	7.87	290	302	240-2142-ND	1.06	8.80	37.91	68.24	272.97	HFB159079-100
16.00	19.00	9.25	145	155	240-2274-ND	.73	6.05	26.08	46.94	187.74	HFB160093-200
16.00	27.99	9.25	198	261	240-2152-ND	.91	7.55	32.55	58.59	234.36	HFB160093-300
16.99	10.00	7.01	115	127	240-2153-ND	.54	4.43	19.11	34.40	137.61	HFB170070-000
16.99	20.00	7.01	215	234	240-2275-ND	.90	7.50	32.31	58.16	232.65	HFB170070-100
18.67	30.00	10.16	250	276	240-2143-ND	1.31	10.83	46.68	84.02	336.06	HFB187102-100
25.91	28.58	12.83	246	268	240-2154-ND	2.48	20.55	88.58	159.44	637.74	HFB259128-100

240-2225-ND High Frequency Ferrite Clamp-On and Solid Cylinder Core Sample Kit for Round Cables (one each of 18 different sizes) **$30.00**

Clamp-On, Split Ferrite Cores in Plastic Cases for Round Cables and Wire Bundles

Split ferrite bead cores in clamp-on (or snap-on) plastic cases can be easily used for EMI attentuation where one-piece cores cannot be installed. Clamp-on cores are also convenient for use during EMI testing.
Cylinder, Round and box shaped plastic cased part shapes available. Additional wire turns will multiply impedance. High performance material.

Fig. 1

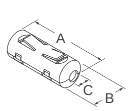

Fig. 2

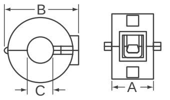

Fig. 3

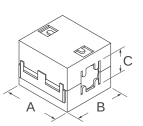

Fig. 4

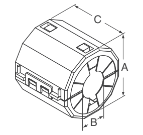

Broad Band Clamp-On Cores Optimized for 30 MHz – 800 MHz +

Fig.	Case Color	Plastic Case Dimensions (mm)			Max. Cable Diameter (mm)	Typical Impedance (Ω)		Digi-Key	Price Each				Steward
		A	B	C		@ 100 MHz	@ 300 MHz	Part No.	1	10	50	100	Part No.
								Cylinder Clamp-On Ferrite					
1	Black	25.20	13.00	3.50	3.50	240	400	240-2233-ND	1.02	.85	.73	.66	28A0350-0B2
	White	29.08	12.80	5.44	4.65	170	320	240-2068-ND	1.05	.87	.75	.68	28A0392-0A0
	Black	29.08	12.80	5.44	4.65	170	320	240-2070-ND	1.05	.87	.75	.68	28A0392-0A2
	Black	42.55	14.30	5.35	5.10	277	449	240-2344-ND	1.23	1.03	.89	.80	28A0434-0A2
	Black	53.39	18.75	4.80	4.50	572	688	240-2245-ND	1.81	1.51	1.30	1.17	28A0592-0A2
	Black	53.39	18.75	6.60	6.55	471	575	240-2246-ND	1.75	1.46	1.26	1.13	28A0593-0A2
	White	40.36	19.10	9.09	8.95	240	390	240-2065-ND	1.93	1.60	1.38	1.25	28A0640-0A0
	Black	40.36	19.10	9.09	8.95	240	390	240-2066-ND	1.93	1.60	1.38	1.25	28A0640-0A2
	Black	41.68	21.03	7.00	6.35	270	460	240-2122-ND	2.05	1.70	1.47	1.32	28A2026-0A2
	Black	35.10	18.00	9.00	9.00	220	360	240-2124-ND	1.51	1.25	1.08	.97	28A2736-0A2
	Black	33.70	30.00	13.00	12.85	260	410	240-2127-ND	3.11	2.58	2.22	2.00	28A3851-0A2
								Round Clamp-On Ferrite					
2	Black	19.90	19.20	8.20	8.13	160	300	240-2123-ND	1.26	1.05	.91	.82	28A2432-0A2
	Black	13.60	24.55	10.20	10.19	130	250	240-2125-ND	1.32	1.10	.95	.86	28A3039-0A2
	Black	15.40	28.80	13.60	13.55	120	230	240-2128-ND	1.52	1.26	1.09	.98	28A4155-0A2
								Box Clamp-On Ferrite					
3	White	32.50	29.00	13.00	12.70	280	440	240-2072-ND	3.69	3.06	2.64	2.38	28A2024-0A0
	Black	32.50	29.00	13.00	12.70	280	440	240-2073-ND	3.69	3.06	2.64	2.38	28A2024-0A2
	White	32.03	17.58	7.26	6.35	320	510	240-2074-ND	1.86	1.55	1.33	1.20	28A2025-0A0
	Black	32.03	17.58	7.26	6.35	320	510	240-2075-ND	1.86	1.55	1.33	1.20	28A2025-0A2
	White	32.84	21.77	10.00	9.91	250	420	240-2076-ND	2.32	1.92	1.66	1.49	28A2029-0A0
	Black	32.84	21.77	10.00	9.91	250	420	240-2077-ND	2.32	1.92	1.66	1.49	28A2029-0A2
	Black	42.00	29.20	19.30	18.80	210	360	240-2121-ND	5.15	4.27	3.68	3.31	28A5776-0A2
								Large Round Clamp-On					
4	Black	56.64	19.50	45.00	25.40	425	533	240-2199-ND	18.58	15.40	13.28	11.95	28A5131-0A2

240-2224-ND Split Clamp-On Broad Band EMI Ferrite Cores Sample Kit for Round Cables (one each of 14 different sizes) **$30.00**
240-2506-ND Split Clamp-on Broadband EMI Ferrite Cores Large Sample Kit for Round Cables (1-12 each of 16 different sizes) **$60.00**

High Frequency (300MHz – 2GHz) Clamp-On Ferrite Cores

Case Color: Black

Plastic Case Dimensions (mm)			Max. Cable Diameter (mm)	Net Impedance (Ω)		Digi-Key	Price Each				Steward
A	B	C		@ 500 MHz	@ 800 MHz	Part No.	1	10	50	100	Part No.
						Cylinder Clamp-On Ferrite					
29.30	12.80	5.30	4.65	152	168	240-2129-ND	1.35	1.12	.97	.87	HFA100049-0A2
41.68	21.03	8.13	6.35	340	281	240-2132-ND	2.41	2.00	1.73	1.55	HFA150068-0A2
40.36	19.10	9.09	8.95	260	262	240-2130-ND	2.59	2.15	1.85	1.67	HFA163090-0A2
						Box Clamp-On Ferrite					
32.50	17.88	7.00	6.35	350	339	240-2131-ND	2.16	1.79	1.55	1.39	HFA150066-0A2
32.64	21.77	10.00	9.91	290	280	240-2133-ND	2.86	2.38	2.05	1.85	HFA187102-0A2
32.51	29.01	13.00	12.70	315	275	240-2134-ND	4.57	3.79	3.27	2.94	HFA259131-0A2

Panasonic

EMI Bead Cores (For Electromagnetic Interference)

SPECIFICATIONS: • DC Resistance: 10mΩ maximum **• Insulation Resistance:** 10MΩ minimum

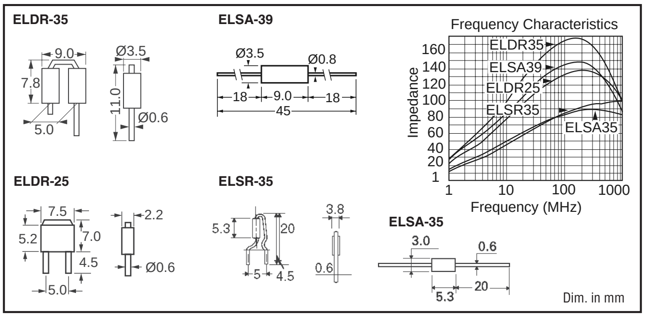

Description	Imp. (Ω) 100 MHz	Digi-Key Part No.	Pricing 10	100	1,000	2,000	Panasonic Part No.
Radial Dual Type (Tape and Box)	140 min.	P9817TB-ND	—	—	88.00	—	EXC-ELDR35V
Radial Dual Type (Bulk)	140 min.	P9817BK-ND	1.79	14.58	—	—	EXC-ELDR35C
Axial Single Type (Tape and Box)	110 min.	P9818TB-ND	—	—	58.00	—	EXC-ELSA39V
Axial Single Type (Bulk)	110 min.	P9818BK-ND	1.27	10.34	—	—	EXC-ELSA39
Radial Dual Type (Tape and Box)	100 min.	P9819TB-ND	—	—	—	82.00/M	EXC-ELDR25V
Radial Dual Type (Bulk)	100 min.	P9819BK-ND	1.73	14.08	114.00	—	EXC-ELDR25C
Axial Single Type (Tape and Box)	60 min.	P9820TB-ND	—	—	58.00	—	EXC-ELSA35V
Axial Lead Type (Bulk)	60 min.	P9820BK-ND	1.27	8.78	—	—	EXC-ELSA35
Radial Single Type (Tape and Box)	60 min.	P9821TB-ND	—	—	58.00	—	EXC-ELSR35T
Radial Form Type (Bulk)	60 min.	P9821BK-ND	1.27	8.78	—	—	EXC-ELSR35S

Surface Mount Bead Cores 0603

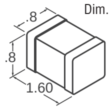

FEATURES: EXC-3BB Series: • High impedance for high speed signal line • Increase the A characteristics sharply above 40MHz and is applicable for radiated noise in the 100MHz ~ 300MHz range **EXC-3BP Series:** • Reduced DC resistance for EMI suppression • High current rating • Effective noise suppression at high frequency, up to 2GHz
APPLICATIONS: Clock line, signal line, I/O interface circuit

Imp. 100 MHz ±25%	I (mA)	Rdc (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 4,000	Panasonic Part No.
220Ω	200	0.3	P10188CT-ND	1.52	10.23	34.65	P10188TR-ND	45.00/M	EXC-3BB221H
600Ω	100	0.8	P10189CT-ND	1.52	10.23	34.65	P10189TR-ND	45.00/M	EXC-3BB601H
1000Ω	50	1	P10190CT-ND	1.52	10.23	34.65	P10190TR-ND	45.00/M	EXC-3BB102H
60Ω	1000	0.07	P10749CT-ND	1.72	12.10	41.80	P10749TR-ND	66.00/M	EXC-3BP600H
120Ω	500	0.1	P10750CT-ND	1.72	12.10	41.80	P10750TR-ND	66.00/M	EXC-3BP121H

Surface Mount Bead Cores

SPECIFICATIONS:
• Tolerance: ±25% **• Test Frequency:** 100MHz **• Rated Current:** 2 (A) **• Flow/ Reflow Soldering**

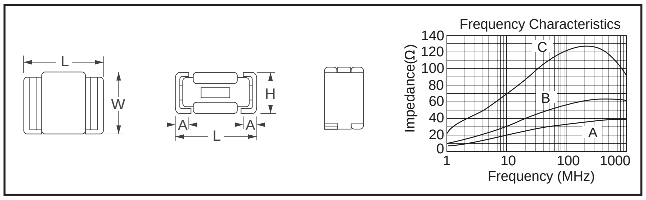

Dia.	Imp. (Ω)	Dimensions (mm) L	W	H	A	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	10,000	Panasonic Part No.
A	25	3.2	1.6	1.6	0.5	P9810CT-ND	.41	.31	P9810TR-ND	173.00/M	160.00/M	EXC-CL3216U1
B	45	3.2	2.5	1.6	0.5	P9811CT-ND	.53	.39	P9811TR-ND	221.00/M	205.00/M	EXC-CL3225U1
C	115	4.5	3.2	1.8	0.5	P9812CT-ND	.62	.46	P9812TR-ND	—	240.00/M	EXC-CL4532U1

Surface Mount Bead Cores

High Current

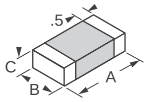

FEATURES: Super small, high self-resonant frequency and excellent tolerance.
SPECIFICATIONS: • Tolerance: ±25% **• Test Frequency:** 100MHz

Size	Imp (Ω)	I (A)	Rdc Max. (mΩ)	Dim. (mm) A	B	C	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Tape and Reel Pricing* 3,000	4,000	Panasonic Part No.
0603	27	4	6	1.6	.8	.8	P10436CT-ND	2.61	18.43	63.65	—	87.00/M	EXC-ML16A270U
0805	39	4	8	2.0	1.2	.9	P10191CT-ND	2.61	18.43	63.65	—	87.00/M	EXC-ML20A390U
1206	68	3	12	3.2	1.6	.9	P10437CT-ND	2.56	18.25	65.70	102.00/M	—	EXC-ML32A680U
1806	91	3	16	4.5	1.6	1.1	P11956CT-ND	2.82	20.13	72.45	121.00/M	—	EXC-ML45A910H

*For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Bead Core Array 0804 (0402x4)

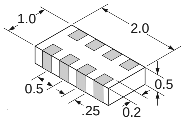

FEATURES: • .02 inch (0.51mm) height, lightweight (typically only 5mg), narrow pitch, compatible with SSOP pitch

EXC-28BB Series: • Suitable for high speed signals (over 50Mhz), excellent cross talk characteristics (100Mhz: <-25dB) **APPLICATIONS:** • PC, LCD, DSC, Printer, PDA, MD, CD, NAVI

EXC-28BA Series: • Suitable for ring suppression while maintaining wave form, excellent cross talk characteristics (100Mhz: <-30dB) **APPLICATIONS:** • HDD, E-IDE (Ultra DMA 33), DVD, CD-ROM, C-DR, CDR-RW

Imp. 100 MHz ±25%	I (mA)	Rdc (Ω)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Pricing 5,000	Panasonic Part No.
120Ω	100	0.5	P10751CT-ND	.71	.52	.38	P10751TR-ND	298.00/M	EXC-28BB121U
220Ω	100	0.7	P10752CT-ND	.71	.52	.38	P10752TR-ND	298.00/M	EXC-28BB221U
120Ω	100	0.5	P10753CT-ND	.71	.52	.38	P10753TR-ND	298.00/M	EXC-28BA121U
200Ω	100	0.7	P10754CT-ND	.71	.52	.38	P10754TR-ND	298.00/M	EXC-28BA221U

Common Mode Noise Filter 0504

Features: • Low profile • Low DC resistance • High reliability and high mounting efficiency due to multilayer construction

Applications: General electronic equipment

Specifications: Temperature Range: -40°C ~ 85°C

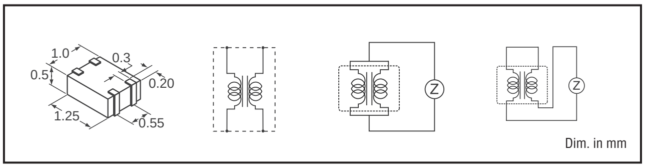

Imp. @ 100MHz Common Mode	Differential Mode	Rated Volt. (V DC)	Rated Current (mA DC)	Rdc (Ω Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 5,000	Panasonic Part No.
90Ω	15Ω	5	160	1.75	P12972CT-ND	.61	.46	.34	192.00/M	EXC-24CE900U
120Ω	18Ω	5	140	2.20	P12970CT-ND	.61	.46	.34	192.00/M	EXC-24CE121U
200Ω	20Ω	5	130	2.70	P12971CT-ND	.61	.46	.34	192.00/M	EXC-24CE201U

*For Tape and Reel part number, change CT-ND to TR-ND

Common Mode Noise Filter Array 0804

Features: • Low profile • Low DC resistance • High reliability and high mounting efficiency due to multilayer construction • 2 filters in one small package

Applications: General electronic equipment

Specifications: Temperature Range: -40°C ~ 85°C

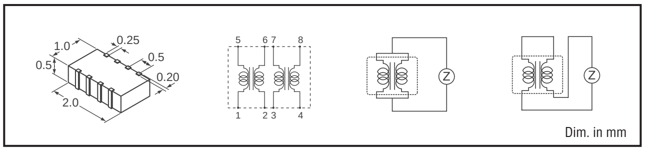

Imp. @ 100MHz Common Mode	Differential Mode	Rated Volt. (V DC)	Rated Current (mA DC)	Rdc (Ω Max.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 5,000	Panasonic Part No.
90Ω	15Ω	5	160	1.5	P12975CT-ND	.88	.66	.49	277.00/M	EXC-28CE900U
120Ω	18Ω	5	140	2.0	P12973CT-ND	.88	.66	.49	277.00/M	EXC-28CE121U
200Ω	20Ω	5	130	2.5	P12974CT-ND	.88	.66	.49	277.00/M	EXC-28CE201U

*For Tape and Reel part number, change CT-ND to TR-ND.

LC/LR Composite Devices

Features:

- Effective for noise and ESD at the same time
- Simple pattern without connecting GND pattern

Applications:

- Information/communication devices with LCD displays

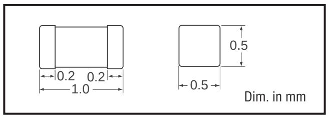

Inductance @100MHz ±20% Nom.	Q Min. @100 MHz	Imp. @ 800-900 MHz Nom.	SRF @ ±50MHz Nom. (MHz)	RDC Max. (Ω)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	T&R Pricing* 10,000	Panasonic Part No.
99nH	4	1500Ω	850	10	90	P13345CT-ND	.16	1.35	10.58	61.00/M	ELW-CF800F01

Inductance @ 100MHz, ±5% Nom.	DCR @ ±20% Nom.	SRF Min. (MHz)	IDC Max. (mA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	T&R Pricing* 10,000	Panasonic Part No.
100nH	100Ω	1200	23	P13346CT-ND	.15	1.26	9.87	57.00/M	ELW-RFR10101F

*For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic

Surface Mount 2 Mode Noise Filters

EXC-24CB and EXC-24CP Series

FEATURES:
• Acoustic quality improvement of mobile phone and portable audio equipment • Effectively suppresses both common mode noise and normal mode noise • Small size and light weight

APPLICATIONS:
• Receiver line, microphone line and headset of mobile phone (GSM, TDMA, PDC, etc.) • Small digital equipment such as personal computers, printer, HDD, DVD-ROM, CD-ROM and LCD • Digital audio and video equipment such as PDA, DSC, DVC, CD Player, DVD Player and MD Player

SPECIFICATIONS:
• **Tolerance:** ±25% • **Rated Voltage**: 5VDC

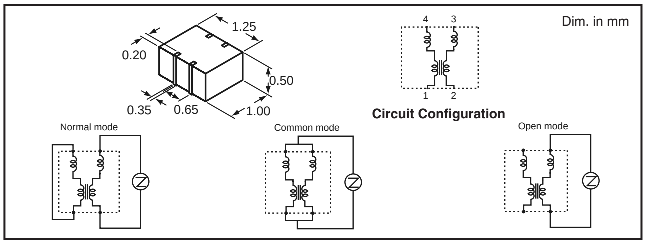

Open Mode Impedance @100MHz (Ω)	Rated Current (mA DC)	DC Resist. Max.(Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel* Pricing 5,000	Panasonic Part No.
1000	50	1.5	P11169CT-ND	.68	.51	.38	215.00/M	EXC-24CB102U
220	100	0.7	P11170CT-ND	.68	.51	.38	215.00/M	EXC-24CB221U
220	350	0.4	P11598CT-ND	.71	.53	.39	223.00/M	EXC-24CP221U
120	500	0.3	P11597CT-ND	.71	.53	.39	223.00/M	EXC-24CP121U

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount Common Mode Noise Filters

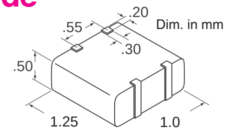

FEATURES:
• Effective in noise suppression of portable equipment • Magnetic shield type • Small size and light weight • Lead Free

APPLICATIONS:
• Digital audio and video equipment; PDA, DSC, DVC, DVD and CD player • USB data line of mobile phone (IMT2000) • Small digital equipment such as personal computers • MD Player

Imp. @ 100MHz (Ω) Common Mode	Differential Mode	Rated Volt (VDC)	Rated Current (mA DC)	DC Resist. Max. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 5,000	Panasonic Part No.
60	20	5	160	2	P11173CT-ND	.95	.71	.52	299.00/M	EXC-24CD600U
90	30	5	160	2	P11174CT-ND	.95	.71	.52	299.00/M	EXC-24CD900U
120	35	5	140	2	P11171CT-ND	.95	.71	.52	299.00/M	EXC-24CD121U
200	40	5	130	3	P11172CT-ND	.95	.71	.52	299.00/M	EXC-24CD201U

*For Tape and Reel part number, change CT-ND to TR-ND.

SMT EMI Filters

SPECIFICATIONS: • 50VDC • 2A Maximum

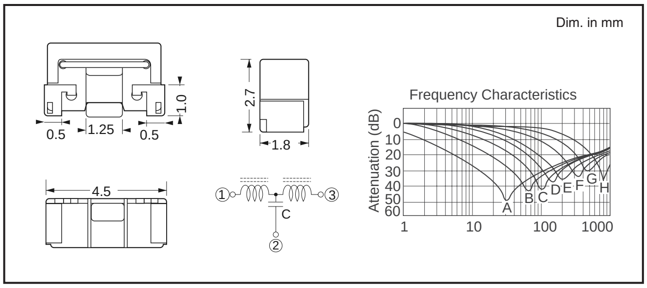

Dia.	Cap. (pF)	25dB Freq. (MHz)	15dB Freq. (MHz)	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Panasonic Part No.
H	22	800~1000	600~1000	P9825CT-ND	.69	.51	P9825TR-ND	289.00	EXC-CET220U
G	47	450~550	350~1000	P9826CT-ND	.69	.51	P9826TR-ND	289.00	EXC-CET470U
F	100	300~450	200~900	P9827CT-ND	.69	.51	P9827TR-ND	289.00	EXC-CET101U
E	270	200~300	80~700	P9828CT-ND	.69	.51	P9828TR-ND	289.00	EXC-CET271U
D	470	100~220	50~700	P9829CT-ND	.69	.51	P9829TR-ND	289.00	EXC-CET471U
C	1000	65~200	30~700	P9830CT-ND	.69	.51	P9830TR-ND	289.00	EXC-CET102U
B	2200	35~180	15~700	P9831CT-ND	.69	.51	P9831TR-ND	289.00	EXC-CET222U
A	10000	15~120	5~700	P9832CT-ND	.69	.51	P9832TR-ND	289.00	EXC-CET103U

SMT Digital Noise Filters Series K: Type E

High performance noise filter for digital signal processing circuits. Wide attenuation band by low pass "T" filter constitution.

FEATURES:
• Wide attenuation band in noise signal • Minimal rounding of waveforms of the signal • High rated DC current: 2.0A • Rated Voltage VDC: 50V P9870-P9878; 25V P13159 • DCR (DC Resistance Ω): 0.02 • High magnetic shielding characteristics • Selection for: high current in small size.

APPLICATIONS:
• Office automated equipment • TVs, VTRs • Communication equipment

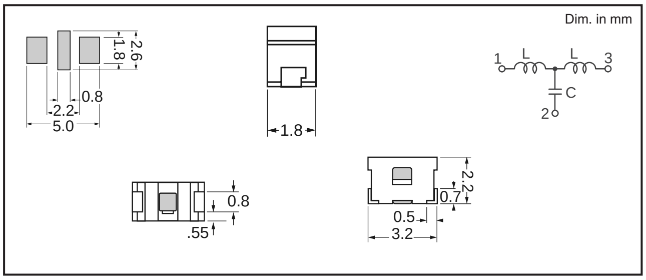

Induct. (1-3) +40 -30% (nH)	Capacitance (1-2) (pF)	Nom. Cap. (pF)	Frequency Range @ 15dB Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 2,000	Panasonic Part No.
60	10±20%	10	1000-1500	P9870CT-ND	.69	.52	.38	216.00/M	ELK-E100FA
	22±20%	22	700-1000	P9871CT-ND	.69	.52	.38	216.00/M	ELK-E220FA
	47±20%	47	500-1000	P9872CT-ND	.69	.52	.38	216.00/M	ELK-E470FA
	100±20%	100	400-1000	P9873CT-ND	.69	.52	.38	216.00/M	ELK-E101FA
	220±20%	220	250-1000	P9874C T-ND	.69	.52	.38	216.00/M	ELK-E221FA
	485±20%	470	150-1000	P9875CT-ND	.69	.52	.38	216.00/M	ELK-E471FA
	1030±30%	1000	80-1000	P9876CT-ND	.69	.52	.38	216.00/M	ELK-E102FA
	2140±30%	2200	50-1000	P9877CT-ND	.69	.52	.38	216.00/M	ELK-E222FA
	9700±30%	10000	15-1000	P9878CT-ND	.69	.52	.38	216.00/M	ELK-E103FA
	32200±30%	33000	10-1000	P13159CT-ND	.56	.52	.38	216.00/M	ELK-E333FA

* For Tape and Reel part number, change CT-ND to TR-ND.

Digital Noise Filters (ELKT Type)

Useful EMI noise filter when signal and noise frequency are close in frequency. T type radial lead EMI filter consisting of one capacitor and two inductors.

FEATURES:
• Flat response at signal frequency and sharp noise attenuation characteristics • Minimal distortion of pulse signal wave form and excellent noise attenuation toward high frequency noise (good EMI filter for analog signal line such as video signal)

APPLICATIONS:
• Reduction of EMI noise on the signal line, I/O line and DC line circuit within OA, AV, communication equipment

Replaces ELK-A series

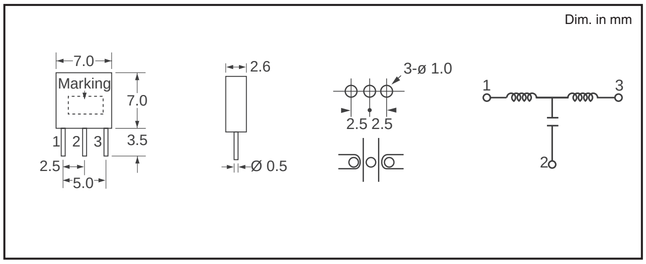

Cut-off Freq. (MHz)	Impedance Zo(Ω)	Rated Current (mA)	Digi-Key Part No .	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	Panasonic Part No.
20	100	100	P11092CT-ND	1.14	1.06	.77	—	—	ELK-TT151EA
35	100	120	P11097CT-ND	1.14	1.06	.77	—	—	ELK-TT820CA
35	300	90	P11098CT-ND	1.14	1.06	.77	P11098TB-ND	439.00	ELK-TT270FA
40	550	90	P11099CT-ND	1.14	1.06	.77	P11099TB-ND	439.00	ELK-TT150GA
50	100	130	P11100CT-ND	1.14	1.06	.77	—	—	ELK-TT560BA
55	300	100	P11101CT-ND	1.14	1.06	.77	P11101TB-ND	439.00	ELK-TT180EA
60	550	90	P11102CT-ND	1.14	1.06	.77	—	—	ELK-TT100FA

High Frequency Band Pass Filters ELB-1A (0603) Type and ELB-2A (0805) Type

FEATURES: • Helical resonator structure • High attenuation at high frequency • Low insertion loss • Small size

APPLICATIONS: • Cordless phones • Wireless LAN

Fig. 1

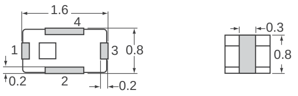

Fig. 2

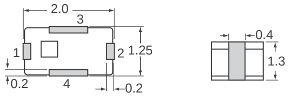

Fig. 3

Dim. in mm

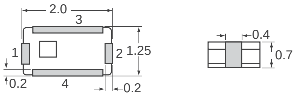

Fig.	Frequency (GHz)	Frequency Characteristics Insertion Loss (dB) Maximum	 Attenuation (dB) Min./(GHz)	VSWR Maximum	Impedance (Ω)	Applications	Digi-Key Part No.	Cut Tape Price Each 1	 10	Digi-Key Part No.	Tape and Reel Size	 Pricing	Panasonic Part No.
						0603							
1	5.80	2.5	13/4.8	2.0	50	Cordless Phone	P13149CT-ND	1.00	.93	P13149TR-ND	4,000	399.00/M	ELB-1A001
	2.45	2.2	25/4.8	2.0	50	Cordless Phone/Wireless LAN	P13150CT-ND	1.00	.93	P13150TR-ND	4,000	399.00/M	ELB-1A002
						0805							
2	5.50	1.5	15/4	2.0	50	Wireless LAN	P13151CT-ND	1.00	.93	P13151TR-ND	3,000	399.00/M	ELB-2A002
	5.40	1.8	25/7.5	2.0	50	Wireless LAN	P13152CT-ND	1.00	.93	P13152TR-ND	3,000	399.00/M	ELB-2A003
	5.80	2.0	28/3.275	2.0	50	Cordless Phone	P13154CT-ND	1.00	.93	P13154TR-ND	3,000	399.00/M	ELB-2A005
	2.45	1.6	25/3.4	2.0	50	Cordless Phone	P13157CT-ND	1.00	.93	P13157TR-ND	3,000	399.00/M	ELB-2A009
3	5.50	1.2	25/2.45	2.0	50	Wireless LAN	P13158CT-ND	1.00	.93	P13158TR-ND	3,000	399.00/M	ELB-2A501

Digital Noise Filters ELK-EV Type

FEATURES:
- Effective on both EMI noise and ESD • Improves the varistor suppression and spike voltage • Small size (1216 size)
- Good DC loaded characteristics up to 2A

SPECIFICATIONS:
- Rated Current: 2.0A Maximum • DCR (DC Resistance): 0.02Ω Typical

APPLICATIONS: • Countermeasure for ESD and EMI noise on DC line such as POS, FA machine, Amusement and etc.

Dim. in mm

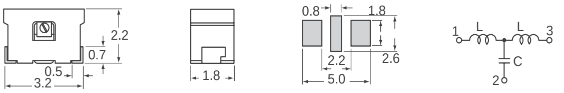

Inductance (1-3) ±40% (nH)	Varistor Voltage (V 1mA)	Capacitance (1-2) Typical (pF)	Frequency Range @ 15dB Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	 10	Tape & Reel Pricing* 2,000	Panasonic Part No.
60	27±25%	15	700-1500	P13170CT-ND	1.05	.98	405.00/M	ELK-EV150FF
	27±25%	30	450-1000	P13171CT-ND	1.05	.98	405.00/M	ELK-EV300FF
	27±25%	160	150-1000	P13172CT-ND	1.05	.98	405.00/M	ELK-EV161FF
	27±25%	430	80-1000	P13173CT-ND	1.05	.98	405.00/M	ELK-EV431FF
	22±25%	560	60-1000	P13174CT-ND	1.05	.98	405.00/M	ELK-EV561FE
	12±25%	1050	40-1000	P13175CT-ND	1.05	.98	405.00/M	ELK-EV112FC
	12±25%	3500	15-1000	P13176CT-ND	1.05	.98	405.00/M	ELK-EV352FC

*For Tape and Reel part number, change CT-ND to TR-ND.

Digital Noise Filters ELK-EA Type

FEATURES:
- Small size • Good DC loaded characteristics up to 5A • Steep attenuation and stable frequency characteristics at high impedance load

SPECIFICATIONS:
- Rated Current: 5.0A Maximum • Rated Voltage Maximum: 50V P13160-P13168; 25V P13169 • DCR (DC Resistance): 4mΩ Typical

Dim. in mm

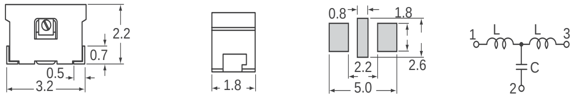

Inductance (1-3) ±40% (nH)	Capacitance (1-2) (pF)	Nominal Capacitance (pF)	Frequency Range @ 15dB Min. (MHz)	Digi-Key Part No.	Cut Tape Price Each 1	 10	Tape & Reel Pricing* 2,000	Panasonic Part No.
14	10±20%	10	1200-1500	P13160CT-ND	.63	.59	243.00/M	ELK-EA100FA
	22±20%	22	700-1000	P13161CT-ND	.63	.59	243.00/M	ELK-EA220FA
	47±20%	47	400-1000	P13162CT-ND	.63	.59	243.00/M	ELK-EA470FA
	100±20%	100	250-1000	P13163CT-ND	.63	.59	243.00/M	ELK-EA101FA
	220±20%	220	150-1000	P13164CT-ND	.63	.59	243.00/M	ELK-EA221FA
	485±20%	470	70-1000	P13165CT-ND	.63	.59	243.00/M	ELK-EA471FA
	1030±30%	1000	40-1000	P13166CT-ND	.63	.59	243.00/M	ELK-EA102FA
	2140±30%	2200	20-1000	P13167CT-ND	.63	.59	243.00/M	ELK-EA222FA
	9700±30%	10000	4-1000	P13168CT-ND	.63	.59	243.00/M	ELK-EA103FA
	32000±30%	33000	2-1000	P13169CT-ND	.63	.59	243.00/M	ELK-EA333FA

*For Tape and Reel part number, change CT-ND to TR-ND.

Combination Line Filters

Series C, types 21C, 25C and 25C (F)

Combination line filters applicable for attenuation of both the common mode and normal mode.

FEATURES: • Addition of superior normal mode attenuation characteristics • Compact and high inductance • Low profile and suitable for high density mounting

RECOMMENDED APPLICATIONS: • Lighting equipment • AV Equipment • Communication equipment • Power supply

SPECIFICATIONS: • Operating Temperature: -20°C ~ 115°C • Voltage: AC 250Vrms Maximum • Dielectric withstanding voltage: AC 2kV 1 minute • Temperature rise: 45 K Maximum

21C Type

Dim. in mm

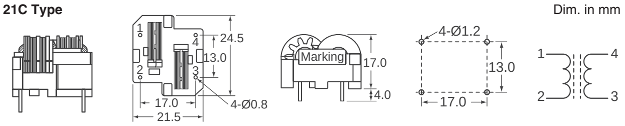

25C Type

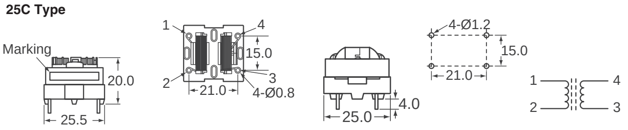

25C (F) Type

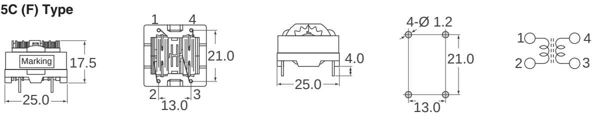

Inductance (mH Min.) Common	 Normal	DCR (at 20°C) (Ω) ±20% Tol.	Rated Current (A rms) Max.	Digi-Key Part No.	Price Each 1	 10	 100	Panasonic Part No.
				21C Type				
43.0	1.70	3.07	0.3	PLK1294-ND	3.68	3.15	2.63	ELF-21C003A
25.0	.960	1.75	0.4	PLK1295-ND	3.68	3.15	2.63	ELF-21C004A
11.0	.440	.790	0.6	PLK1296-ND	3.68	3.15	2.63	ELF-21C006A
6.40	.250	.450	0.9	PLK1297-ND	3.68	3.15	2.63	ELF-21C009A
3.90	.150	.300	1.1	PLK1298-ND	3.68	3.15	2.63	ELF-21C011A
2.30	.090	.170	1.5	PLK1299-ND	3.68	3.15	2.63	ELF-21C015A
1.70	.065	.120	1.8	PLK1300-ND	3.68	3.15	2.63	ELF-21C018A
1.00	.040	.080	2.3	PLK1301-ND	3.68	3.15	2.63	ELF-21C023A
				25C Type				
184.0	5.30	5.031	0.3	PLK1302-ND	4.48	3.84	3.20	ELF-25C003A
72.0	2.10	1.891	0.5	PLK1303-ND	4.48	3.84	3.20	ELF-25C005A
34.0	0.90	.916	0.7	PLK1304-ND	4.48	3.84	3.20	ELF-25C007A
20.0	0.52	.510	0.9	PLK1305-ND	4.48	3.84	3.20	ELF-25C009A
11.0	0.31	.310	1.2	PLK1306-ND	4.48	3.84	3.20	ELF-25C012A
6.70	.180	.180	1.6	PLK1307-ND	4.48	3.84	3.20	ELF-25C016A
4.40	.110	.113	2.0	PLK1308-ND	4.48	3.84	3.20	ELF-25C020A
3.00	.080	.080	2.5	PLK1309-ND	4.48	3.84	3.20	ELF-25C025A
1.80	.050	.053	3.2	PLK1310-ND	4.48	3.84	3.20	ELF-25C032A
1.20	.03	.037	3.8	PLK1311-ND	4.48	3.84	3.20	ELF-25C038A
				25C (F) Type				
85.0	2.10	1.891	0.5	PLK1312-ND	3.82	3.27	2.73	ELF-25C005F
52.0	1.28	1.270	0.6	PLK1313-ND	3.82	3.27	2.73	ELF-25C006F
34.0	0.90	0.916	0.7	PLK1314-ND	3.82	3.27	2.73	ELF-25C007F
26.0	0.68	0.673	0.8	PLK1315-ND	3.82	3.27	2.73	ELF-25C008F
20.0	0.52	0.510	0.9	PLK1316-ND	3.82	3.27	2.73	ELF-25C009F
11.0	0.31	0.310	1.2	PLK1317-ND	3.82	3.27	2.73	ELF-25C012F
6.7	0.18	0.180	1.6	PLK1318-ND	3.82	3.27	2.73	ELF-25C016F
4.4	0.11	0.113	2.0	PLK1319-ND	3.82	3.27	2.73	ELF-25C020F

Panasonic® Line Filters

V Series (290, 450, 650, 850, 21V, 22V, 24V Types)
H Series (200, 270, 400, 600 Types)
F Series (23F, 25F Types)
M Series (11M, 14M, 16M Types)
N Series (15N, 18N, 20N Types)
High N Series (17N, 19N, 21N Types)

Standard Circuit Diagram

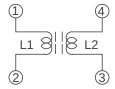

Circuit Example

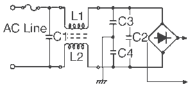

Line filters for suppressing conductive noise ranging from low to high frequencies generated from power supply circuits of various equipment

V Series (Vertical Structure): Excellent attenuation in high frequency characteristics
H Series (Horizontal Structure): Greatly decreases leakage flux
F Series (Thin Structure): 15 mm height max.
M Series (Small Structure): Small size and lightweight
N Series (Vertical Structure): Suitable for high-density automatic insertion
High N Series (High L Structure): High inductance (same size with N Series)

Dim. in (mm)

290 Type

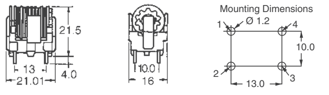

450, 650 Type Dimensions: shown in [ ] are for 450 type.

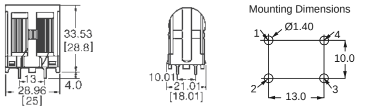

850 Type

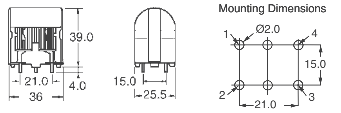

21V Type

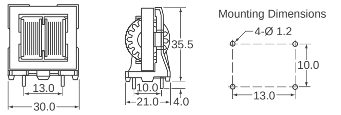

22V Type

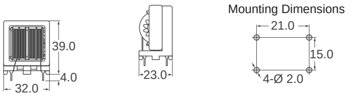

24V Type

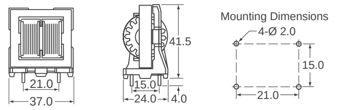

270 Type

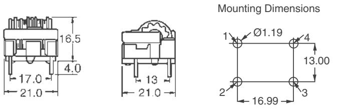

200, 400, 600 Type

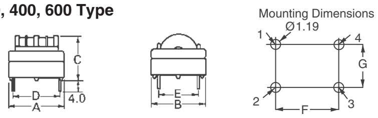

Type	A	B	C	D	E	F	G
200	20.00	21.00	20.00	13.00	10.00	13.00	10.00
400	24.00	24.50	19.50	21.00	15.00	21.00	15.00
600	28.50	29.00	22.50	24.00	20.00	24.00	20.00

23F, 25F Types

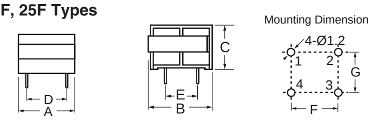

Type	A Max.	B Max.	C Max.	D	E	F	G
23F	24	23	14	16±0.5	10±0.5	16±0.1	10±0.1
25F	28	25	15	21±0.5	11±0.5	21±0.1	11±0.1

15N Type

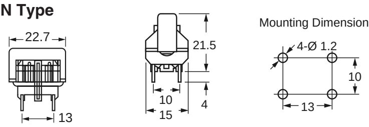

18N Type

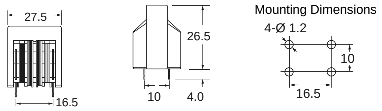

20N Type

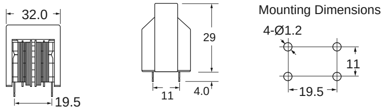

17N Type

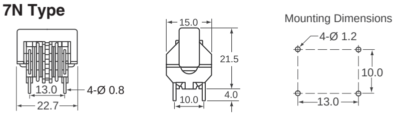

19N Type

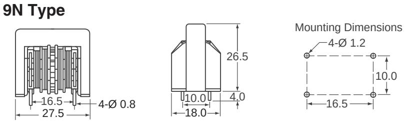

21N Type

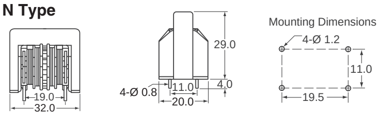

11M Type

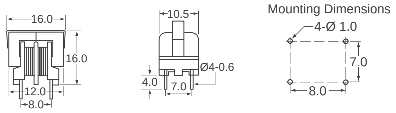

14M Type

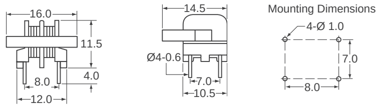

16M Type

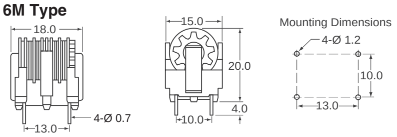

Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing				Panasonic Part No.
				1	10	100	1,000	
				V Series				
290	33.0	0.3	PLK1005-ND	3.36	28.80	240.00	1433.00	ELF-18D290H
	22.0	0.4	PLK1004-ND	3.36	28.80	240.00	1433.00	ELF-18D290C
	10.0	0.6	PLK1003-ND	3.36	28.80	240.00	1433.00	ELF-18D290G
	3.3	1.1	PLK1002-ND	3.36	28.80	240.00	1433.00	ELF-18D290S
	2.2	1.3	PLK1001-ND	3.36	28.80	240.00	1433.00	ELF-18D290T
	0.82	2.0	PLK1000-ND	3.36	28.80	240.00	1433.00	ELF-18D290B
450	56.0	0.45	PLK1206-ND	5.68	48.69	405.75	2422.00	ELF-18D450Q
	39.0	0.50	PLK1207-ND	5.68	48.69	405.75	2422.00	ELF-18D450H
	18.0	0.8	PLK1007-ND	5.68	48.69	405.75	2422.00	ELF-18D450B
	10.0	1.0	PLK1208-ND	5.68	48.69	405.75	2422.00	ELF-18D450J
	8.2	1.1	PLK1209-ND	5.68	48.69	405.75	2422.00	ELF-18D450G
	6.8	1.2	PLK1210-ND	5.68	48.69	405.75	2422.00	ELF-18D450L
	5.6	1.4	PLK1211-ND	5.68	48.69	405.75	2422.00	ELF-18D450D
	3.9	1.8	PLK1212-ND	5.68	48.69	405.75	2422.00	ELF-18D450K
	2.7	2.0	PLK1006-ND	5.68	48.69	405.75	2422.00	ELF-18D450A
	2.2	2.2	PLK1213-ND	5.68	48.69	405.75	2422.00	ELF-18D450C
	1.2	3.0	PLK1214-ND	5.68	48.69	405.75	2422.00	ELF-18D450M
650	68.0	0.6	PLK1223-ND	6.21	53.25	443.75	2649.00	ELF-18D656S
	47.0	0.7	PLK1012-ND	6.21	53.25	443.75	2649.00	ELF-18D650U
	39.0	0.7	PLK1215-ND	6.21	53.25	443.75	2649.00	ELF-18D650P
	33.0	0.8	PLK1216-ND	6.21	53.25	443.75	2649.00	ELF-18D650H
	27.0	1.0	PLK1224-ND	6.21	53.25	443.75	2649.00	ELF-18D656V
	22.0	1.0	PLK1011-ND	6.21	53.25	443.75	2649.00	ELF-18D650L
	18.0	1.0	PLK1217-ND	6.21	53.25	443.75	2649.00	ELF-18D650Q
	18.0	1.2	PLK1225-ND	6.21	53.25	443.75	2649.00	ELF-18D656Q
	15.0	1.3	PLK1226-ND	6.21	53.25	443.75	2649.00	ELF-18D656D
	12.0	1.3	PLK1218-ND	6.21	53.25	443.75	2649.00	ELF-18D650J
	12.0	1.6	PLK1038-ND	6.21	53.25	443.75	2649.00	ELF-18D656J
	10.0	1.4	PLK1219-ND	6.21	53.25	443.75	2649.00	ELF-18D650W
	8.2	1.7	PLK1010-ND	6.21	53.25	443.75	2649.00	ELF-18D650C
	6.8	1.8	PLK1220-ND	6.21	53.25	443.75	2649.00	ELF-18D650K
	6.8	2.0	PLK1227-ND	6.21	53.25	443.75	2649.00	ELF-18D656K
	5.6	2.2	PLK1228-ND	6.21	53.25	443.75	2649.00	ELF-18D656X
650	4.7	2.0	PLK1221-ND	6.21	53.25	443.75	2649.00	ELF-18D650Y
	3.3	2.4	PLK1009-ND	6.21	53.25	443.75	2649.00	ELF-18D650B
	1.8	2.8	PLK1222-ND	6.21	53.25	443.75	2649.00	ELF-18D650G
	1.5	3.1	PLK1008-ND	6.21	53.25	443.75	2649.00	ELF-18D650M
	4.7	2.5	PLK1229-ND	6.21	53.25	443.75	2649.00	ELF-18D656Y
	2.7	2.7	PLK1230-ND	6.21	53.25	443.75	2649.00	ELF-18D656Z
	2.2	2.8	PLK1037-ND	6.21	53.25	443.75	2649.00	ELF-18D666A
850	82.0	0.8	PLK1231-ND	9.82	84.18	701.50	4188.00	ELF-18D850R
	56.0	1.1	PLK1017-ND	9.82	84.18	701.50	4188.00	ELF-18D850T
	47.0	1.2	PLK1232-ND	9.82	84.18	701.50	4188.00	ELF-18D850U
	33.0	1.4	PLK1233-ND	9.82	84.18	701.50	4188.00	ELF-18D850H
	27.0	1.5	PLK1234-ND	9.82	84.18	701.50	4188.00	ELF-18D850Z
	22.0	1.8	PLK1018-ND	9.82	84.18	701.50	4188.00	ELF-18D860C
	18.0	1.9	PLK1235-ND	9.82	84.18	701.50	4188.00	ELF-18D850Q
	15.0	2.0	PLK1236-ND	9.82	84.18	701.50	4188.00	ELF-18D850D
	10.0	2.5	PLK1016-ND	9.82	84.18	701.50	4188.00	ELF-18D850W
	8.2	3.0	PLK1237-ND	9.82	84.18	701.50	4188.00	ELF-18D850C
	5.6	3.4	PLK1238-ND	9.82	84.18	701.50	4188.00	ELF-18D850X
	4.7	3.5	PLK1015-ND	9.82	84.18	701.50	4188.00	ELF-18D850Y
	3.9	3.7	PLK1239-ND	9.82	84.18	701.50	4188.00	ELF-18D850P
	3.3	4.2	PLK1014-ND	9.82	84.18	701.50	4188.00	ELF-18D850B
	2.7	4.5	PLK1240-ND	9.82	84.18	701.50	4188.00	ELF-18D860B
	1.5	5.0	PLK1013-ND	9.82	84.18	701.50	4188.00	ELF-18D850M
21V	68.0	0.6	PLK1102-ND	4.66	39.93	332.75	1987.00	ELF-21V006A
	56.0	0.7	PLK1103-ND	4.66	39.93	332.75	1987.00	ELF-21V007A
	33.0	0.8	PLK1104-ND	5.78	49.50	412.50	2463.00	ELF-21V008A
	27.0	1.0	PLK1105-ND	5.78	49.50	412.50	2463.00	ELF-21V010A
	18.0	1.2	PLK1106-ND	5.78	49.50	412.50	2463.00	ELF-21V012A
	15.0	1.3	PLK1107-ND	5.78	49.50	412.50	2463.00	ELF-21V013A
	12.0	1.6	PLK1108-ND	5.78	49.50	412.50	2463.00	ELF-21V016A
	8.2	1.8	PLK1109-ND	5.78	49.50	412.50	2463.00	ELF-21V018A
	6.8	2.0	PLK1110-ND	5.78	49.50	412.50	2463.00	ELF-21V020A
	5.6	2.2	PLK1111-ND	5.78	49.50	412.50	2463.00	ELF-21V022A

(Continued)

Type	Induc-tance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing				Panasonic Part No.
				1	10	100	1,000	
21V	4.5	2.5	PLK1112-ND	5.78	49.50	412.50	2463.00	ELF-21V025A
	2.7	2.7	PLK1113-ND	5.78	49.50	412.50	2463.00	ELF-21V027A
	2.2	3.0	PLK1114-ND	5.78	49.50	412.50	2463.00	ELF-21V030A
22V (A)	23.3	2.0	PLK1320-ND	2.78	23.85	198.75	1192.50	ELF-22V020A
	12.6	2.5	PLK1321-ND	2.78	23.85	198.75	1192.50	ELF-22V025A
	9.8	3.0	PLK1322-ND	2.78	23.85	198.75	1192.50	ELF-22V030A
	7.3	3.5	PLK1323-ND	2.78	23.85	198.75	1192.50	ELF-22V035A
	5.8	4.0	PLK1324-ND	2.78	23.85	198.75	1192.50	ELF-22V040A
	4.0	5.0	PLK1325-ND	2.78	23.85	198.75	1192.50	ELF-22V050A
	3.0	6.0	PLK1326-ND	2.78	23.85	198.75	1192.50	ELF-22V060A
	2.0	7.0	PLK1327-ND	2.78	23.85	198.75	1192.50	ELF-22V070A
22V (B)	27.0	2.0	PLK1328-ND	2.78	23.85	198.75	1192.50	ELF-22V020B
	18.0	2.5	PLK1329-ND	2.78	23.85	198.75	1192.50	ELF-22V025B
	13.1	3.0	PLK1330-ND	2.78	23.85	198.75	1192.50	ELF-22V030B
	9.3	3.5	PLK1331-ND	2.78	23.85	198.75	1192.50	ELF-22V035B
	6.9	4.0	PLK1332-ND	2.78	23.85	198.75	1192.50	ELF-22V040B
	4.5	5.0	PLK1333-ND	2.78	23.85	198.75	1192.50	ELF-22V050B
	3.2	6.0	PLK1334-ND	2.78	23.85	198.75	1192.50	ELF-22V060B
	2.2	7.0	PLK1335-ND	2.78	23.85	198.75	1192.50	ELF-22V070B
22V (C)	16.0	2.0	PLK1336-ND	2.78	23.85	198.75	1192.50	ELF-22V020C
	9.8	2.5	PLK1337-ND	2.78	23.85	198.75	1192.50	ELF-22V025C
	8.0	3.0	PLK1338-ND	2.78	23.85	198.75	1192.50	ELF-22V030C
	5.8	3.5	PLK1339-ND	2.78	23.85	198.75	1192.50	ELF-22V035C
	4.5	4.0	PLK1340-ND	2.78	23.85	198.75	1192.50	ELF-22V040C
24V	82.0	0.8	PLK1115-ND	5.78	49.50	412.50	2463.00	ELF-24V008A
	56.0	1.0	PLK1116-ND	5.78	49.50	412.50	2463.00	ELF-24V010A
	47.0	1.2	PLK1117-ND	5.78	49.50	412.50	2463.00	ELF-24V012A
	33.0	1.4	PLK1118-ND	5.78	49.50	412.50	2463.00	ELF-24V014A
	27.0	1.5	PLK1119-ND	5.78	49.50	412.50	2463.00	ELF-24V015A
	22.0	1.8	PLK1120-ND	5.78	49.50	412.50	2463.00	ELF-24V018A
	18.0	1.9	PLK1121-ND	5.78	49.50	412.50	2463.00	ELF-24V019A
	15.0	2.0	PLK1122-ND	5.78	49.50	412.50	2463.00	ELF-24V020A
	10.0	2.5	PLK1123-ND	5.78	49.50	412.50	2463.00	ELF-24V025A
	9.0	2.8	PLK1124-ND	5.78	49.50	412.50	2463.00	ELF-24V028A
	8.2	3.0	PLK1125-ND	5.78	49.50	412.50	2463.00	ELF-24V030A
	5.6	3.4	PLK1126-ND	5.78	49.50	412.50	2463.00	ELF-24V034A
	4.7	3.5	PLK1127-ND	8.58	73.50	612.50	3657.00	ELF-24V035A
	3.9	3.7	PLK1128-ND	8.58	73.50	612.50	3657.00	ELF-24V037A
	3.3	4.2	PLK1129-ND	8.58	73.50	612.50	3657.00	ELF-24V042A
	2.7	4.5	PLK1130-ND	8.58	73.50	612.50	3657.00	ELF-24V045A
	1.5	5.0	PLK1131-ND	8.58	73.50	612.50	3657.00	ELF-24V050A
	0.80	7.0	PLK1132-ND	8.58	73.50	612.50	3657.00	ELF-24V070A
	0.40	8.0	PLK1133-ND	8.58	73.50	612.50	3657.00	ELF-24V080A
	0.26	9.0	PLK1134-ND	8.58	73.50	612.50	3657.00	ELF-24V090A
	0.15	10.0	PLK1135-ND	8.58	73.50	612.50	3657.00	ELF-24V100A
H Series								
200	68.0	0.25	PLK1247-ND	3.84	32.88	274.00	1636.00	ELF-18D222F
	47.0	0.3	PLK1248-ND	3.84	32.88	274.00	1636.00	ELF-18D235F
	33.0	0.4	PLK1024-ND	3.84	32.88	274.00	1636.00	ELF-18D221F
	22.0	0.4	PLK1021-ND	3.84	32.88	274.00	1636.00	ELF-18D218
	18.0	0.5	PLK1241-ND	3.84	32.88	274.00	1636.00	ELF-18D210
	15.0	0.5	PLK1242-ND	3.84	32.88	274.00	1636.00	ELF-18D215
	8.2	0.7	PLK1243-ND	3.84	32.88	274.00	1636.00	ELF-18D214
	6.8	0.8	PLK1244-ND	3.84	32.88	274.00	1636.00	ELF-18D225
	4.7	1.0	PLK1249-ND	3.84	32.88	274.00	1636.00	ELF-18D227F
	3.9	1.0	PLK1020-ND	3.84	32.88	274.00	1636.00	ELF-18D216
	3.3	1.0	PLK1245-ND	3.84	32.88	274.00	1636.00	ELF-18D213
	2.7	1.3	PLK1246-ND	3.84	32.88	274.00	1636.00	ELF-18D219
	2.2	1.5	PLK1023-ND	3.84	32.88	274.00	1636.00	ELF-18D228F
	1.5	1.6	PLK1019-ND	3.84	32.88	274.00	1636.00	ELF-18D217
	1.2	2.0	PLK1250-ND	3.84	32.88	274.00	1636.00	ELF-18D230F
	1.0	2.1	PLK1022-ND	3.84	32.88	274.00	1636.00	ELF-18D212F
270	33.0	0.3	PLK1251-ND	3.36	28.80	240.00	1433.00	ELF-18D270J
	22.0	0.4	PLK1252-ND	3.36	28.80	240.00	1433.00	ELF-18D270B
	18.0	0.5	PLK1253-ND	3.36	28.80	240.00	1433.00	ELF-18D270H
	10.0	0.6	PLK1254-ND	3.36	28.80	240.00	1433.00	ELF-18D270G
	6.8	0.7	PLK1025-ND	3.36	28.80	240.00	1433.00	ELF-18D270A
	5.6	0.8	PLK1255-ND	3.36	28.80	240.00	1433.00	ELF-18D270Q
	2.7	1.1	PLK1256-ND	3.36	28.80	240.00	1433.00	ELF-18D270D
	1.8	1.5	PLK1257-ND	3.36	28.80	240.00	1433.00	ELF-18D270C
400	68.0	0.4	PLK1266-ND	4.55	39.03	325.25	1942.00	ELF-18D437F
	39.0	0.5	PLK1267-ND	4.55	39.03	325.25	1942.00	ELF-18D427F
	33.0	0.5	PLK1029-ND	4.55	39.03	325.25	1942.00	ELF-18D428
	27.0	0.6	PLK1258-ND	4.55	39.03	325.25	1942.00	ELF-18D423
	22.0	0.6	PLK1259-ND	4.55	39.03	325.25	1942.00	ELF-18D422
	18.0	0.7	PLK1260-ND	4.55	39.03	325.25	1942.00	ELF-18D417
	18.0	0.8	PLK1268-ND	4.55	39.03	325.25	1942.00	ELF-18D417F
	12.0	0.9	PLK1028-ND	4.55	39.03	325.25	1942.00	ELF-18D430
	10.0	1.0	PLK1031-ND	4.55	39.03	325.25	1942.00	ELF-18D431F
	8.2	1.0	PLK1261-ND	4.55	39.03	325.25	1942.00	ELF-18D415
	6.8	1.2	PLK1262-ND	4.55	39.03	325.25	1942.00	ELF-18D412
	5.6	1.3	PLK1263-ND	4.55	39.03	325.25	1942.00	ELF-18D424
	5.6	1.4	PLK1269-ND	4.55	39.03	325.25	1942.00	ELF-18D424F
	3.9	1.5	PLK1264-ND	4.55	39.03	325.25	1942.00	ELF-18D433
	3.3	1.8	PLK1265-ND	4.55	39.03	325.25	1942.00	ELF-18D414
	2.7	2.0	PLK1270-ND	4.55	39.03	325.25	1942.00	ELF-18D434F
	2.2	2.0	PLK1027-ND	4.55	39.03	325.25	1942.00	ELF-18D416
	2.2	2.2	PLK1030-ND	4.55	39.03	325.25	1942.00	ELF-18D435F
	1.5	2.4	PLK1026-ND	4.55	39.03	325.25	1942.00	ELF-18D419
	1.2	3.0	PLK1271-ND	4.55	39.03	325.25	1942.00	ELF-18D420F
	0.56	3.4	PLK1272-ND	4.55	39.03	325.25	1942.00	ELF-18D441F
600	100.0	0.4	PLK1273-ND	5.75	49.29	410.75	2452.00	ELF-18D620
	68.0	0.5	PLK1274-ND	5.75	49.29	410.75	2452.00	ELF-18D607
	47.0	0.7	PLK1287-ND	5.75	49.29	410.75	2452.00	ELF-18D605F
	39.0	0.7	PLK1275-ND	5.75	49.29	410.75	2452.00	ELF-18D615
	33.0	0.8	PLK1036-ND	5.75	49.29	410.75	2452.00	ELF-18D624F
	27.0	0.8	PLK1276-ND	5.75	49.29	410.75	2452.00	ELF-18D618
	27.0	1.0	PLK1288-ND	5.75	49.29	410.75	2452.00	ELF-18D618F
	22.0	1.0	PLK1034-ND	5.75	49.29	410.75	2452.00	ELF-18D612
	18.0	1.0	PLK1277-ND	5.75	49.29	410.75	2452.00	ELF-18D606
	18.0	1.2	PLK1289-ND	5.75	49.29	410.75	2452.00	ELF-18D606F
	12.0	1.3	PLK1278-ND	5.75	49.29	410.75	2452.00	ELF-18D609
	12.0	1.6	PLK1290-ND	5.75	49.29	410.75	2452.00	ELF-18D609F
	10.0	1.4	PLK1279-ND	5.75	49.29	410.75	2452.00	ELF-18D616
	10.0	1.6	PLK1291-ND	5.75	49.29	410.75	2452.00	ELF-18D601F
	8.2	1.7	PLK1280-ND	5.75	49.29	410.75	2452.00	ELF-18D602
	5.6	1.8	PLK1281-ND	5.75	49.29	410.75	2452.00	ELF-18D603
	5.6	2.1	PLK1292-ND	5.75	49.29	410.75	2452.00	ELF-18D603F
	4.7	2.0	PLK1282-ND	5.75	49.29	410.75	2452.00	ELF-18D604
	4.7	2.5	PLK1293-ND	5.75	49.29	410.75	2452.00	ELF-18D604F
	3.9	2.2	PLK1283-ND	5.75	49.29	410.75	2452.00	ELF-18D613
	3.3	2.5	PLK1033-ND	5.75	49.29	410.75	2452.00	ELF-18D605
	2.7	2.6	PLK1284-ND	5.75	49.29	410.75	2452.00	ELF-18D611
	2.2	2.8	PLK1035-ND	5.75	49.29	410.75	2452.00	ELF-18D617F
	1.8	2.8	PLK1285-ND	5.75	49.29	410.75	2452.00	ELF-18D614
	1.5	3.1	PLK1286-ND	5.75	49.29	410.75	2452.00	ELF-18D610
	1.0	3.4	PLK1032-ND	5.75	49.29	410.75	2452.00	ELF-18D608
F Series								
23F	50.0	0.3	PLK1039-ND	9.85	84.39	703.25	4198.00	ELF-23F003A
	30.0	0.4	PLK1040-ND	9.85	84.39	703.25	4198.00	ELF-23F004A
	20.0	0.5	PLK1041-ND	9.85	84.39	703.25	4198.00	ELF-23F005A
	14.0	0.6	PLK1042-ND	9.85	84.39	703.25	4198.00	ELF-23F006A
	10.0	0.7	PLK1043-ND	9.85	84.39	703.25	4198.00	ELF-23F007A
	8.0	0.8	PLK1044-ND	9.85	84.39	703.25	4198.00	ELF-23F008A
	6.0	0.9	PLK1045-ND	9.85	84.39	703.25	4198.00	ELF-23F009A
	5.0	1.0	PLK1046-ND	9.85	84.39	703.25	4198.00	ELF-23F010A
	3.5	1.2	PLK1047-ND	9.85	84.39	703.25	4198.00	ELF-23F012A
	2.0	1.6	PLK1048-ND	9.85	84.39	703.25	4198.00	ELF-23F016A
	1.5	1.8	PLK1049-ND	9.85	84.39	703.25	4198.00	ELF-23F018A
	1.2	2.0	PLK1050-ND	9.85	84.39	703.25	4198.00	ELF-23F020A
	1.0	2.2	PLK1051-ND	9.85	84.39	703.25	4198.00	ELF-23F022A
25F	28.0	0.6	PLK1052-ND	11.49	98.46	820.50	4898.00	ELF-25F106A
	20.0	0.7	PLK1053-ND	11.49	98.46	820.50	4898.00	ELF-25F107A
	15.0	0.8	PLK1054-ND	11.49	98.46	820.50	4898.00	ELF-25F108A
	12.0	0.9	PLK1055-ND	11.49	98.46	820.50	4898.00	ELF-25F109A
	10.0	1.0	PLK1056-ND	11.49	98.46	820.50	4898.00	ELF-25F110A
	7.0	1.2	PLK1057-ND	11.49	98.46	820.50	4898.00	ELF-25F112A
	5.0	1.4	PLK1058-ND	11.49	98.46	820.50	4898.00	ELF-25F114A
	4.0	1.6	PLK1059-ND	11.49	98.46	820.50	4898.00	ELF-25F116A
	3.0	1.8	PLK1060-ND	11.49	98.46	820.50	4898.00	ELF-25F118A
	2.0	2.0	PLK1061-ND	11.49	98.46	820.50	4898.00	ELF-25F020A
	1.6	2.2	PLK1062-ND	11.49	98.46	820.50	4898.00	ELF-25F022A
	1.3	2.5	PLK1063-ND	11.49	98.46	820.50	4898.00	ELF-25F025A
M Series								
11M	30.0	0.1	PLK1136-ND	2.92	25.05	208.75	1246.00	ELF-11M010E
	12.0	0.2	PLK1137-ND	2.92	25.05	208.75	1246.00	ELF-11M020E
	6.0	0.3	PLK1138-ND	2.92	25.05	208.75	1246.00	ELF-11M030E
	3.5	0.4	PLK1139-ND	2.92	25.05	208.75	1246.00	ELF-11M040E
	2.5	0.5	PLK1140-ND	2.92	25.05	208.75	1246.00	ELF-11M050E
	1.5	0.6	PLK1141-ND	2.92	25.05	208.75	1246.00	ELF-11M060E
	1.0	0.7	PLK1142-ND	2.92	25.05	208.75	1246.00	ELF-11M070E
	0.8	0.8	PLK1143-ND	2.92	25.05	208.75	1246.00	ELF-11M080E
	0.7	0.9	PLK1144-ND	2.92	25.05	208.75	1246.00	ELF-11M090E
	0.5	1.0	PLK1145-ND	2.92	25.05	208.75	1246.00	ELF-11M100E
14M	30.0	0.1	PLK1146-ND	3.20	27.45	228.75	1366.00	ELF-14M010E
	12.0	0.2	PLK1147-ND	3.20	27.45	228.75	1366.00	ELF-14M020E
	6.0	0.3	PLK1148-ND	3.20	27.45	228.75	1366.00	ELF-14M030E
	3.5	0.4	PLK1149-ND	3.20	27.45	228.75	1366.00	ELF-14M040E
	2.5	0.5	PLK1150-ND	3.20	27.45	228.75	1366.00	ELF-14M050E
	1.5	0.6	PLK1151-ND	3.20	27.45	228.75	1366.00	ELF-14M060E
	1.0	0.7	PLK1152-ND	3.20	27.45	228.75	1366.00	ELF-14M070E
	0.8	0.8	PLK1153-ND	3.20	27.45	228.75	1366.00	ELF-14M080E
	0.7	0.9	PLK1154-ND	3.20	27.45	228.75	1366.00	ELF-14M090E
	0.5	1.0	PLK1155-ND	3.20	27.45	228.75	1366.00	ELF-14M100E
16M	28.0	0.2	PLK1156-ND	1.77	15.15	126.25	754.00	ELF-16M020A
	20.0	0.3	PLK1157-ND	1.77	15.15	126.25	754.00	ELF-16M030A
	15.0	0.4	PLK1158-ND	1.77	15.15	126.25	754.00	ELF-16M040A
	8.0	0.5	PLK1159-ND	1.77	15.15	126.25	754.00	ELF-16M050A
	7.0	0.6	PLK1160-ND	1.77	15.15	126.25	754.00	ELF-16M060A
	5.0	0.7	PLK1161-ND	1.77	15.15	126.25	754.00	ELF-16M070A
	3.5	0.8	PLK1162-ND	1.77	15.15	126.25	754.00	ELF-16M080A
	2.0	1.0	PLK1163-ND	1.77	15.15	126.25	754.00	ELF-16M100A
	1.0	1.3	PLK1164-ND	1.77	15.15	126.25	754.00	ELF-16M130A
	0.8	1.5	PLK1165-ND	1.77	15.15	126.25	754.00	ELF-16M150A
	0.6	1.7	PLK1166-ND	1.77	15.15	126.25	754.00	ELF-16M170A
	0.5	2.0	PLK1167-ND	1.77	15.15	126.25	754.00	ELF-16M200A
N Series								
15N	104.0	0.2	PLK1064-ND	2.42	20.76	173.00	1033.00	ELF-15N002A
	43.0	0.3	PLK1065-ND	2.42	20.76	173.00	1033.00	ELF-15N003A
	26.0	0.4	PLK1066-ND	2.42	20.76	173.00	1033.00	ELF-15N004A
	19.0	0.5	PLK1067-ND	2.42	20.76	173.00	1033.00	ELF-15N005A
	12.0	0.6	PLK1068-ND	2.42	20.76	173.00	1033.00	ELF-15N006A

(Continued)

Panasonic® Line Filters *(Cont.)*

Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
15N	10.0	0.7	PLK1069-ND	2.42	20.76	173.00	1033.00	ELF-15N007A
	6.8	0.8	PLK1070-ND	2.42	20.76	173.00	1033.00	ELF-15N008A
	5.3	1.0	PLK1071-ND	2.42	20.76	173.00	1033.00	ELF-15N010A
	4.0	1.1	PLK1072-ND	2.42	20.76	173.00	1033.00	ELF-15N011A
	2.7	1.3	PLK1073-ND	2.42	20.76	173.00	1033.00	ELF-15N013A
	2.1	1.5	PLK1074-ND	2.42	20.76	173.00	1033.00	ELF-15N015A
	1.7	1.7	PLK1075-ND	2.42	20.76	173.00	1033.00	ELF-15N017A
	1.0	2.2	PLK1076-ND	2.42	20.76	173.00	1033.00	ELF-15N022A
	0.6	3.0	PLK1077-ND	2.42	20.76	173.00	1033.00	ELF-15N030A
18N	80.0	0.4	PLK1078-ND	4.67	40.05	333.75	1993.00	ELF-18N004A
	50.0	0.5	PLK1079-ND	4.67	40.05	333.75	1993.00	ELF-18N005A
	35.0	0.6	PLK1080-ND	4.67	40.05	333.75	1993.00	ELF-18N006A
	20.0	0.8	PLK1081-ND	4.67	40.05	333.75	1993.00	ELF-18N008A
	15.0	1.0	PLK1082-ND	4.67	40.05	333.75	1993.00	ELF-18N010A
	9.5	1.2	PLK1083-ND	4.67	40.05	333.75	1993.00	ELF-18N012A
	6.0	1.6	PLK1084-ND	4.67	40.05	333.75	1993.00	ELF-18N016A
	4.2	2.0	PLK1085-ND	4.67	40.05	333.75	1993.00	ELF-18N020A
	2.4	2.5	PLK1086-ND	4.67	40.05	333.75	1993.00	ELF-18N025A
	1.4	3.2	PLK1087-ND	4.67	40.05	333.75	1993.00	ELF-18N032A
20N	69.0	0.6	PLK1088-ND	5.11	43.77	364.75	2178.00	ELF-20N006A
	43.0	0.8	PLK1089-ND	5.11	43.77	364.75	2178.00	ELF-20N008A
	28.0	1.0	PLK1090-ND	5.11	43.77	364.75	2178.00	ELF-20N010A
	18.0	1.3	PLK1091-ND	5.11	43.77	364.75	2178.00	ELF-20N013A
	14.0	1.5	PLK1092-ND	5.11	43.77	364.75	2178.00	ELF-20N015A
	12.0	1.6	PLK1093-ND	5.11	43.77	364.75	2178.00	ELF-20N016A
	7.5	1.8	PLK1094-ND	5.11	43.77	364.75	2178.00	ELF-20N018A
	7.0	2.0	PLK1095-ND	5.11	43.77	364.75	2178.00	ELF-20N020A
	6.2	2.2	PLK1096-ND	5.11	43.77	364.75	2178.00	ELF-20N022A
	4.9	2.4	PLK1097-ND	5.11	43.77	364.75	2178.00	ELF-20N024A
	4.7	2.7	PLK1098-ND	5.11	43.77	364.75	2178.00	ELF-20N027A
	2.9	3.0	PLK1099-ND	5.11	43.77	364.75	2178.00	ELF-20N030A
	2.0	3.5	PLK1100-ND	5.11	43.77	364.75	2178.00	ELF-20N035A
	1.5	4.0	PLK1101-ND	5.11	43.77	364.75	2178.00	ELF-20N040A

Type	Inductance mH min.	Rated Current A rms	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
			High N Series					
17N	142.0	0.2	PLK1168-ND	1.42	12.21	101.75	607.00	ELF-17N002A
	60.0	0.3	PLK1169-ND	1.42	12.21	101.75	607.00	ELF-17N003A
	35.0	0.4	PLK1170-ND	1.42	12.21	101.75	607.00	ELF-17N004A
	26.0	0.5	PLK1171-ND	1.42	12.21	101.75	607.00	ELF-17N005A
	16.0	0.6	PLK1172-ND	1.42	12.21	101.75	607.00	ELF-17N006A
	14.0	0.7	PLK1173-ND	1.42	12.21	101.75	607.00	ELF-17N007A
	9.2	0.8	PLK1174-ND	1.42	12.21	101.75	607.00	ELF-17N008A
	7.2	1.0	PLK1175-ND	1.42	12.21	101.75	607.00	ELF-17N010A
	5.4	1.1	PLK1176-ND	1.42	12.21	101.75	607.00	ELF-17N011A
	3.7	1.3	PLK1177-ND	1.42	12.21	101.75	607.00	ELF-17N013A
	2.9	1.5	PLK1178-ND	1.42	12.21	101.75	607.00	ELF-17N015A
	2.3	1.7	PLK1179-ND	1.42	12.21	101.75	607.00	ELF-17N017A
	1.3	2.2	PLK1180-ND	1.42	12.21	101.75	607.00	ELF-17N022A
	0.8	3.0	PLK1181-ND	1.42	12.21	101.75	607.00	ELF-17N030A
19N	99.0	0.4	PLK1182-ND	2.57	22.05	183.75	1097.00	ELF-19N004A
	62.0	0.5	PLK1183-ND	2.57	22.05	183.75	1097.00	ELF-19N005A
	43.0	0.6	PLK1184-ND	2.57	22.05	183.75	1097.00	ELF-19N006A
	25.0	0.8	PLK1185-ND	2.57	22.05	183.75	1097.00	ELF-19N008A
	19.0	1.0	PLK1186-ND	2.57	22.05	183.75	1097.00	ELF-19N010A
	12.0	1.2	PLK1187-ND	2.57	22.05	183.75	1097.00	ELF-19N012A
	7.4	1.6	PLK1188-ND	2.57	22.05	183.75	1097.00	ELF-19N016A
	5.1	2.0	PLK1189-ND	2.57	22.05	183.75	1097.00	ELF-19N020A
	3.0	2.5	PLK1190-ND	2.57	22.05	183.75	1097.00	ELF-19N025A
	1.7	3.2	PLK1191-ND	2.57	22.05	183.75	1097.00	ELF-19N032A
21N	87.0	0.6	PLK1192-ND	3.24	27.75	231.25	1381.00	ELF-21N006A
	54.0	0.8	PLK1193-ND	3.24	27.75	231.25	1381.00	ELF-21N008A
	36.0	1.0	PLK1194-ND	3.24	27.75	231.25	1381.00	ELF-21N010A
	22.0	1.3	PLK1195-ND	3.24	27.75	231.25	1381.00	ELF-21N013A
	18.0	1.5	PLK1196-ND	3.24	27.75	231.25	1381.00	ELF-21N015A
	15.0	1.6	PLK1197-ND	3.24	27.75	231.25	1381.00	ELF-21N016A
	9.4	1.8	PLK1198-ND	3.24	27.75	231.25	1381.00	ELF-21N018A
	8.7	2.0	PLK1199-ND	3.24	27.75	231.25	1381.00	ELF-21N020A
	7.8	2.2	PLK1200-ND	3.24	27.75	231.25	1381.00	ELF-21N022A
	6.1	2.4	PLK1201-ND	3.24	27.75	231.25	1381.00	ELF-21N024A
	5.8	2.7	PLK1202-ND	3.24	27.75	231.25	1381.00	ELF-21N027A
	3.7	3.0	PLK1203-ND	3.24	27.75	231.25	1381.00	ELF-21N030A
	2.5	3.5	PLK1204-ND	3.24	27.75	231.25	1381.00	ELF-21N035A
	1.9	4.0	PLK1205-ND	3.24	27.75	231.25	1381.00	ELF-21N040A

Ring Core Ferrites TT Series

Applications: General purpose noise reduction, such as for power circuits, motor areas, and TV circuits.
Measuring Wire: UL1015 AWG #14, 100mm, 1 turn

Fig. 1

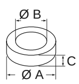

Fig. 2

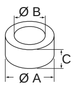

Fig. 3

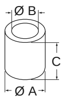

Fig.	Dimensions (mm) A	B	C	Typical Impedance (Ω) 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
1	12.0	8.0	5.5	20	27	42	P12713-ND	.41	.30	.20	KR16TT120805
	13.0	7.1	6.3	30	40	55	P12715-ND	.49	.36	.24	KR16TT130706
	16.0	12.0	8.0	20	30	45	P12721-ND	.49	.36	.24	KR16TT161208
	18.0	10.0	6.0	30	40	55	P12722-ND	.62	.45	.30	KR16TT181006
	18.0	10.0	10.0	35	50	80	P12723-ND	.66	.48	.32	KR16TT181010
	18.5	10.0	8.0	42	51	68	P12724-ND	.57	.42	.28	KR16TT191008
	18.5	10.0	10.0	35	50	80	P12725-ND	.62	.45	.30	KR16TT191010
	20.5	10.6	10.3	55	65	80	P11378-ND	.70	.51	.34	KR16TT201110
	20.5	10.6	12.0	65	75	95	P11379-ND	.74	.54	.36	KR16TT201112
	22.0	14.0	6.0	25	30	48	P11380-ND	.62	.45	.30	KR16TT221406
	22.0	14.0	10.0	35	45	60	P11381-ND	.78	.57	.38	KR16TT221410
	25.0	15.0	8.0	35	44	64	P11382-ND	1.07	.78	.52	KR16TT251508
	25.0	15.0	12.0	35	50	80	P11383-ND	1.19	.87	.58	KR16TT251512
	28.5	18.0	7.5	30	40	60	P11385-ND	.90	.66	.44	KR16TT281807
	28.5	18.0	15.0	53	67	88	P11386-ND	1.52	1.11	.74	KR16TT281815
2	9.0	6.0	10.0	30	38	56	P12710-ND	.49	.36	.24	KR16TT090610
	9.5	4.9	10.4	40	50	70	P12711-ND	.57	.42	.28	KR16TT100510
	12.0	8.0	15.0	35	50	80	P12714-ND	.49	.36	.24	KR16TT120815
	16.0	9.0	18.0	80	95	110	P12719-ND	.94	.69	.46	KR16TT160918
	26.0	13.0	29.0	155	170	160	P11384-ND	2.34	1.71	1.14	KR16TT261329
3	10.7	6.4	20.0	72	88	110	P12712-ND	.82	.60	.40	KR16TT110620
	14.3	6.4	20.0	120	140	140	P12716-ND	.90	.66	.44	KR16TT140620
	14.3	6.4	28.6	200	220	175	P12717-ND	1.19	.87	.58	KR16TT140629
	16.0	7.8	28.0	150	180	170	P12718-ND	1.31	.96	.64	KR16TT160828
	16.0	9.0	28.0	120	140	140	P12720-ND	1.39	1.02	.68	KR16TT160928
	18.5	10.0	29.0	130	150	150	P11377-ND	1.52	1.11	.74	KR16TT191029

Flat Cable Core Ferrites FP Series

Applications: Noise reduction for flat cables. **Measuring Wire:** • 1 – 1UEW 0.5, 50mm, 1turn • 2 – UL1007 AWG26, 65mm, 1turn • 3 – 1UEW 0.5, 100mm, 1 turn

Fig. 1

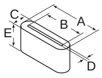

Fig. 2

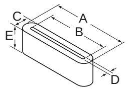

Fig. 3

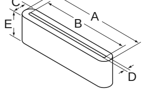

Fig.	Measuring Wire	Dimensions (mm) A	B	C	D	E	Typical Impedance (Ω) 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
1	1	22.5	17.5	6.0	1.0	10.3	32	40	56	P11387-ND	.82	.60	.40	KR16FP220610
2	3	33.5	27.0	6.5	1.3	10.0	28	38	73	P11388-ND	.86	.63	.42	KR16FP340710
	2	33.5	28.5	7.5	2.5	12.0	25	32	53	P11389-ND	.90	.66	.44	KR16FP340812
	2	36.0	31.0	6.5	1.5	9.0	23	30	48	P11390-ND	.86	.63	.42	KR16FP360709
3	2	40.0	34.8	6.5	1.3	10.0	24	34	65	P11391-ND	1.03	.75	.50	KR16FP400710
	3	45.2	40.0	6.5	1.3	12.0	28	40	83	P11392-ND	1.15	.84	.56	KR16FP450712

Ring Core with Casing Ferrites

TA and TB Series

Applications:
Low frequency noise reduction. TB Series has Fixed Hole.
Material of Case: PP
Measuring Wire: UL1015 AWG #14, 100mm, 1 turn

Fig. 1

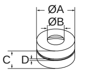

Fig. 2

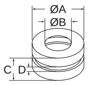

Fig. 3

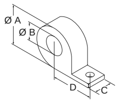

Fig.	Case Color	Dimensions (mm) A	B	C	D	Typical Impedance Ω / MHz			Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
						TA Series							
1	White	19.6	8.7	11.0	1.0*	35/30	50/50	80/100	P11398-ND	1.15	.84	.56	KR16TA191010W
2	White	26.5	13.5	14.0	3.0*	35/30	50/50	80/100	P11399-ND	1.68	1.23	.82	KR16TA251512W
2	Black	26.5	13.5	14.0	3.0*	20/1	18/5	14/10	P11400-ND	1.80	1.32	.88	KR50TA251512B1
						TB Series							
3	Black	29.5	13.4	13.5	23.0	35/30	50/50	80/100	P11401-ND	2.34	1.71	1.14	KR16TB251512B1

* Maximum

Snap-On Core Ferrites

KRCB Series

Applications: Noise reduction on AC power cable for PC's and other electronic devices. Their "snap-on" construction allows for easy installation at any point in the production cycle.
Material of Case: Nylon 66 **Material of Core:** KR16 **Measuring Wire:** UL1015 AWG #14, 100mm, 1turn

Fig. 1

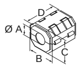

Fig. 2

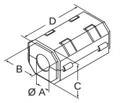

Fig. 3

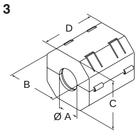

Fig.	Case Color	Dimensions (mm) A	B	C	D	Typical Impedance (Ω) 30MHz	50MHz	100MHz	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
1	Black	6.5	19.0	15.5	21.0	35	50	80	P11393-ND	1.39	1.02	.68	KRCBC130714B
	White	6.5	19.0	15.5	21.0	35	50	80	P11394-ND	1.48	1.08	.72	KRCBG130714
2	Black	8.5	22.0	21.0	37.0	110	140	140	P11395-ND	2.58	1.89	1.26	KRCBC160928B
	White	8.5	22.0	21.0	37.0	110	140	140	P11396-ND	2.46	1.80	1.20	KRCBN160928
3	Black	12.8	33.0	31.5	34.0	130	160	170	P11397-ND	5.74	4.20	2.80	KRCBC261329B

Qualtek ELECTRONICS CORP. AC Line Cords

- **Temperature Rating:** +60°C
- **Volt Rating:** 125V/AC.
- **Small Appliance Line Cord:** NEMA 1-15 P Polarized Plug
- **Male Plug Power Cord:** NEMA 5-15 P Plug
- **Detachable Power Cord:** NEMA 5-15 P Plug, IEC 320 Connector

SPT-1: All thermoplastic, parallel-jacketed, with or without third conductor for grounding purposes only. Light duty cord for pendant or portable use in damp locations. 300V.

SVT: Two or three-conductor, all plastic construction with or without third conductor for grounding purposes only. 300V, +60° C.

SJT: Junior hard service thermoplastic or rubber-insulated conductors with overall thermoplastic jacket. 300V, 60°C ~ 105°C

Fig. 1

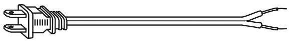

Fig. 2

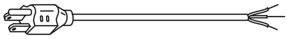

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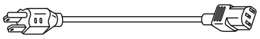

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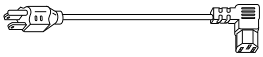

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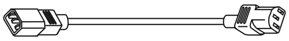

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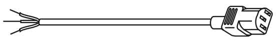

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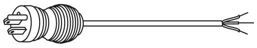

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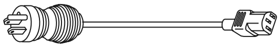

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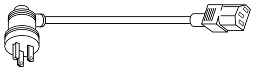

Fig. 10

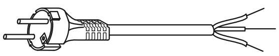

Fig. 11

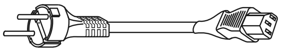

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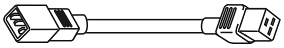

Fig. 13

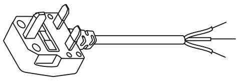

Fig. 14

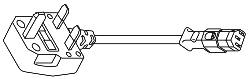

Fig. 15

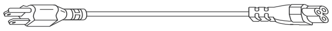

Description	Fig.	Length Feet (Meter)	Cord/Plug Color	AWG	Rating Amps @ 125V	Cord Type	Digi-Key Part No.	Price Each				Qualtek Part No.
								1	10	100	250	
Small Appliance Line Cord UL Listed	1	6'0" (1.83)	Brown/Brown	18/2	10	SPT-1	Q100-ND	1.58	1.43	1.15	.97	221001-03
		6'0" (1.83)	White/White	18/2	10	SPT-1	Q101-ND	2.29	2.08	1.67	1.41	221001-08
		6'0" (1.83)	Black/Black	18/2	10	SPT-1	Q114-ND	1.61	1.46	1.17	.99	221001-01
		9'0" (2.74)	Black/Black	18/2	10	SPT-1	Q121-ND	1.77	1.60	1.29	1.09	221002-01
Male Plug Power Cord UL Listed CSA Certified CEE Color Code	2	6'7" (2.01)	Black/Black	18/3	10	SVT	Q106-ND	3.10	2.80	2.25	1.90	311007-01
		9'10" (3.00)	Black/Black	18/3	10	SVT	Q107-ND	3.35	3.03	2.44	2.06	311010-01
		6'7" (2.01)	Black/Black	18/3	10	SJT	Q108-ND	2.98	2.69	2.16	1.83	311013-01
		9'10" (3.00)	Black/Black	18/3	10	SJT	Q109-ND	4.99	4.51	3.63	3.06	311016-01
		6'7" (2.01)	Black/Black	16/3	13	SJT	Q110-ND	3.21	2.91	2.34	1.98	311019-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q111-ND	5.63	5.09	4.09	3.46	311022-01
		6'7" (2.01)	Black/Black	14/3	15	SJT	Q112-ND	3.96	3.58	2.88	2.43	311024-01
		9'10" (3.00)	Black/Black	14/3	15	SJT	Q113-ND	4.86	4.39	3.53	2.98	311027-01
N. Amer. Color Code	2	8'0" (2.44)	Gray/Gray	18/3	10	SVT	Q122-ND	4.06	3.67	2.95	2.49	211012-06
		8'0" (2.44)	Gray/Gray	18/3	10	SJT	Q123-ND	3.26	2.95	2.37	2.01	211018-06
Detachable Power Cord UL Listed CSA Certified CEE Color Code	3	6'7" (2.01)	Black/Black	18/3	10	SJT	Q102-ND	3.37	3.05	2.45	2.07	312007-01
		9'10" (3.00)	Black/Black	18/3	10	SJT	Q103-ND	6.67	6.03	4.85	4.09	312010-01
		6'7" (2.01)	Black/Black	16/3	13	SJT	Q115-ND	3.92	3.54	2.85	2.41	312011-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q116-ND	4.88	4.41	3.55	3.00	312014-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q120-ND†	10.11	9.13	7.34	6.20	312040-01
		7'6" (2.29)	Black/Black	16/3	13	SJT	Q124-ND	4.23	3.83	3.08	2.60	212013-01
		7'6" (2.29)	Black/Black	18/3	10	SVT	Q125-ND	2.64	2.39	1.92	1.63	312003-01
		7'6" (2.29)	Black/Black	18/3	10	SVT	Q126-ND*	3.67	3.32	2.67	2.25	312021-01
	4	6'7" (2.01)	Black/Black	18/3	10	SJT	Q104-ND	5.85	5.29	4.25	3.59	313006-01
		6'7" (2.01)	Black/Black	16/3	13	SJT	Q117-ND	6.23	5.64	4.53	3.83	313010-01
		9'10" (3.00)	Black/Black	18/3	10	SJT	Q105-ND	4.50	4.07	3.27	2.76	313009-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q118-ND	7.66	6.92	5.56	4.70	313014-01
		9'10" (3.00)	Black/Black	16/3	13	SJT	Q119-ND†	10.14	9.16	7.36	6.22	313026-01
	5	3'3" (.99)	Black/Black	18/3	10	SVT	Q127-ND	2.98	2.69	2.16	1.83	318002-01
		3'3" (.99)	Black/Black	18/3	10	SJT	Q128-ND	2.73	2.47	1.99	1.68	318005-01
	12	9'10" (3.00)	Black/Black	14/3	15	SJT	Q268-ND	14.13	12.77	10.26	8.67	331010-01
	6	9'10" (3.00)	Black/Black	18/3	10	SJT	Q129-ND	3.59	3.25	2.61	2.21	315008-01
	15	6'0" (1.83)	Black/Black	18/3	10	SVT	Q139-ND	2.78	2.52	2.02	1.71	350049-LD01
		10'0" (3.50)	Black/Black	18/3	10	SVT	Q140-ND	3.28	2.97	2.39	2.02	350050-LD01
Hospital Grade UL Listed CSA Certified N. Amer. Color Code	7	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q130-ND	5.53	5.00	4.02	3.39	232003-06
		10'0" (3.05)	Gray/Gray	18/3	10	SJT	Q131-ND	11.05	9.98	8.02	6.77	232011-06
	8	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q132-ND	6.20	5.60	4.50	3.80	233003-06
		10'0" (3.05)	Gray/Gray	18/3	10	SJT	Q133-ND	6.20	5.60	4.50	3.80	233009-06
	9	10'0" (3.05)	Gray/Clear	18/3	10	SJT	Q263-ND	13.51	12.20	9.81	8.28	243003-06

† Shielded with Mylar Foil * Temperature Rating: +105° C VW-1

Description	Fig.	Length Feet (Meter)	Color	Cordage	Conductors (MM2)	Rating Amps @ 250V	Digi-Key Part No.	Price Each				Qualtek Part No.
								1	10	100	250	
International Power Cords												
Continental Europe	10	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q134-ND	5.36	4.85	3.90	3.29	363012-D01
	11	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q135-ND	6.18	5.58	4.49	3.79	364002-D01
	5	8'2" (2.5)	Black	H05VV-F/SJT	3 X 1.00	10	Q136-ND	5.36	4.85	3.90	3.29	319004-T01
United Kingdom	13	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q137-ND	10.85	9.80	7.88	6.65	369003-E01
	14	8'2" (2.5)	Black	H05VV-F	3 X 1.00	10	Q138-ND	11.65	10.53	8.46	7.15	370001-E01

AC Receptacles

Approvals: 701W-15/XX and 716W-15/XX: IEC 320. **736W-B-101, -102:** UL, CSA, VDE, FIMKO, DEMKO, NEMKO, SEMKO. **738W-CX2-01:** UL, CSA. **743W-00/0X:** UL, CSA, VDE, SEV, DEMKO, NEMKO, SEMKO, FIMKO, CB. **744W-00/0X and 745W-XX/YY:** UL, CSA, VDE, SEV, SEMKO, DEMKO, FIMKO, NEMKO **770W-X2/03, /04, /05:** UL, CSA, VDE, SEV, SETI, DEMKO, NEMKO, SEMKO, ÖVE, CB. **770W-X2/09, /11, /12:** UL, CSA, VDE, SEV, FIMKO, DEMKO, NEMKO, SEMKO, ÖVE. **770W-X2/10:** UL, CSA, VDE, NEMKO. **771W-X2/01, /02:** ULR, CSA, VDE, SEV, DEMKO, NEMKO, SEMKO. **761-18/xxx and 762-18/xxx:** UL, CSA, VDE. **763-00/xxx and 763-00/xxx:** UL, CSA, VDE. **770W-00-01:** UL, CSA, VDE, SEMKO, DEMKO, NEMKO, SETI. **771W-xxx/01:** UL, CSA, VDE, NEMKO.

Fig. 1

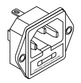

Fig. 2

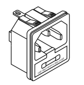

Fig. 3

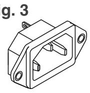

Front/Rear Mount

Fig. 4

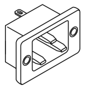

Fig. 5

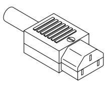

Fig. 6

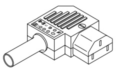

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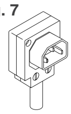

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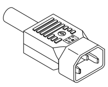

Fig. 9

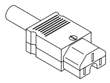

Fig. 10

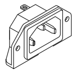

7mm Terminal Pitch

Fig. 11

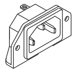

9mm Terminal Pitch

Fig. 12

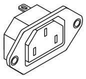

Fig. 13

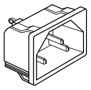

Fig. 14

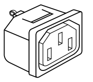

Fig. 15

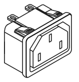

Fig. 16

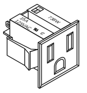

Fig. 17

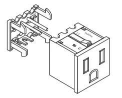

Fig. 18

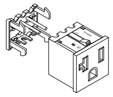

Fig. 19

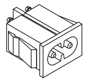

Fig. 20

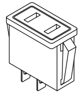

Fig. 21

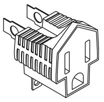

Fig. 22

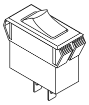

Fig. 23

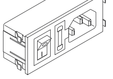

Fig. 24

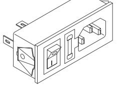

Fig. 25

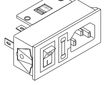

Fig. 26

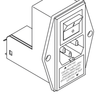

Fig. 27

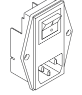

Fig. 28

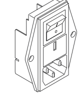

Fig. 29

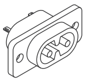

Fig. 30

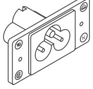

Fig. 31

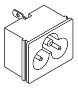

Fig. 32

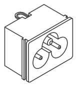

Fig. 33

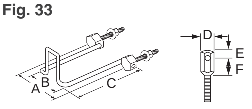

Fig.	Description	Mount Type	Panel Cutout H x W(mm)	Contact Type	Digi-Key Part No.	Price Each 1	10	100	Qualtek Part No.
	Power Inlets with Single 5x20mm Fuseholder								
1	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	Solder Tab	Q201-ND	2.42	2.19	1.76	719W-00/02
	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	.187” (4.75mm) Fast-On	Q202-ND	2.42	2.19	1.76	719W-00/03
	AC Receptacle, Straight, Male	Screw	31.4 x 27.0	.248” (6.35mm) Fast-On	Q203-ND	2.42	2.19	1.76	719W-00/04
2	AC Receptacle, Straight, Male, .031” (0.8mm)	Snap-In	27.0 x 31.4	Solder Tab	Q204-ND	2.42	2.19	1.76	723W-X2/02
	AC Receptacle, Straight, Male, .031” (0.8mm)	Snap-In	27.0 x 31.4	.187” (4.75mm) Fast-On	Q205-ND	2.42	2.19	1.76	723W-X2/03
	AC Receptacle, Straight, Male, .031” (0.8mm)	Snap-In	27.0 x 31.4	.248” (6.35mm) Fast-On	Q206-ND	2.42	2.19	1.76	723W-X2/04
	AC Power Inlets								
3	AC Recept., Straight, Male (front or rear mt.)	Screw	19.8 x 27.4 frt.	Solder Tab	Q210-ND	.64	.58	.47	703W-00/02
	AC Recept., Straight, Male (front or rear mt.)	Screw	or 22.8 x 30.0	.187” (4.75mm) Fast-On	Q211-ND	.64	.58	.47	703W-00/03
	AC Recept., Straight, Male (front or rear mt.)	Screw	rear mount	.248” (6.35mm) Fast-On	Q212-ND	.74	.67	.54	703W-00/04
4	Power Receptacle	Screw	24.5 x 32.5	.248” (6.3mm) Quick Connect	Q235-ND	.79	.72	.58	744W-00/04
	AC Power Plug Assemblies								
5	In-Line Plug, Straight, Female	Cord	—	Screw Terminals	Q213-ND	3.93	3.55	2.86	704-00/00
6	In-Line Plug, Right Angle, Female	Cord	—	Screw Terminals	Q214-ND	5.08	4.59	3.69	705-00/00
7	In-Line Plug, Right Angle, Male	Cord	—	Screw Terminals	Q215-ND	7.11	6.43	5.17	711-00/00
8	In-Line Plug, Straight, Male	Cord	—	Screw Terminals	Q216-ND	7.11	6.43	5.17	712-00/00
9	In-Line Plug, Straight, Female	Cord	—	Screw Terminals	Q217-ND	4.45	4.03	3.24	709-00/00
	Angled Inlet PCB Mount								
10	AC Receptacle, Right Angle, Male	Screw	22.8 x 30.8	Round PC Terminals	Q218-ND	.74	.67	.54	703W-00/52
	AC Receptacle, Right Angle, Male	Screw	22.8 x 30.8	Flat PC Terminals	Q219-ND	.69	.63	.51	703W-00/53
11	AC Receptacle, Right Angle, Male	Screw	22.8 x 30.8	Flat PC Terminals	Q220-ND	.69	.63	.51	703W-00/54
	AC Power Inlets IEC 320								
12	AC Receptacle, Straight, Female	Screw	24.2 x 32.4	Solder Tab	Q221-ND	.64	.58	.47	710W-00/01
	AC Receptacle, Straight, Female	Screw	24.2 x 32.4	.187” (4.75mm) Fast-On	Q222-ND	.64	.58	.47	710W-00/02
	AC Receptacle, Straight, Female	Screw	24.2 x 32.4	.248” (6.35mm) Fast-On	Q223-ND	.74	.67	.54	710W-00/03
13	AC Receptacle, Straight, Male, .031” (0.8mm)	Snap-In	27.0 x 20.5	Solder Tab	Q207-ND	.69	.63	.51	701W-X2/02
	AC Receptacle, Straight, Male, .031” (0.8mm)	Snap-In	27.0 x 20.5	.187” (4.75mm) Fast-On	Q208-ND	.69	.63	.51	701W-X2/03
	AC Receptacle, Straight, Male, .031” (0.8mm)	Snap-In	27.0 x 20.5	.248” (6.35mm) Fast-On	Q209-ND	.69	.63	.51	701W-X2/04
13	Power Receptacle, .059” (1.5mm), Male	Snap-In	27.2 x 19.7	Solder Tab	Q256-ND	.59	.54	.43	701W-15/21
	Power Receptacle, .059” (1.5mm), Male	Snap-In	27.2 x 19.7	.187” (4.7mm) Fast-On/Solder Tab	Q257-ND	.59	.54	.43	701W-15/26
	Power Receptacle, .059” (1.5mm), Male	Snap-In	27.2 x 19.7	.250” (6.35mm) Fast-On	Q258-ND	.64	.58	.47	701W-15/31
14	Power Outlet, .059” (1.5mm), Female	Snap-In	25.2 x 32.8	Solder Tab	Q259-ND	.79	.72	.58	716W-15/05
	Power Outlet, .059” (1.5mm), Female	Snap-In	25.2 x 32.8	.187” (4.7mm) Fast-On/Solder Tab	Q260-ND	.79	.72	.58	716W-15/10
	Power Outlet, .059” (1.5mm), Female	Snap-In	25.2 x 32.8	.250” (6.35mm) Fast-On	Q261-ND	.84	.76	.61	716W-15/15
15	AC Recept., Straight, Female, .031” (0.8mm)	Snap-In	25.3 x 32.6	Solder Tab	Q224-ND	.79	.72	.58	716W-X2/01
	AC Recept. Straight, Female, .031” (0.8mm)	Snap-In	25.3 x 32.6	.187” (4.75mm) Fast-On	Q225-ND	.69	.63	.51	716W-X2/02
	AC Recept., Straight, Female, .031” (0.8mm)	Snap-In	25.3 x 32.6	.248” (6.35mm) Fast-On	Q226-ND	.69	.63	.51	716W-X2/03
	NEMA 5-15R Power Outlets								
16	AC Recept., Straight, Female, .031” (0.8mm)	Snap-In	22.3 x 24.6	.187” (4.75mm) Fast-On	Q227-ND	.59	.54	.43	738W-X2/03
17	AC Recept., Straight, Female, .031” (0.8mm)	Snap-In	24.6 x 24.6	IDC Crimp Terminals	Q228-ND	.79	.72	.58	739W-X2/03
	NEMA 5-20P Power Outlets								
18	AC Recept., Straight, Female, .031” (0.8mm)	Snap-In	24.5 x 24.5	IDC Crimp Terminals	Q282-ND	1.23	1.12	.90	739W-X2/20
	Power Receptacles								
19	Power Receptacle	Screw	12.4 x 21.0	Solder Tab	Q269-ND	.59	.54	.43	770W-X2/03
	Power Receptacle	Panel	12.4 x 21.0	Right Angle, PCB Pins	Q273-ND	.49	.45	.36	770W-X2/10
	Power Receptacle	Snap-In	12.5 x 24.5	PCB Pins	Q277-ND	.79	.72	.58	771W-X2/02
20	Power Receptacle, 2 Con.	Snap-In	12.4 x 22.1	4.8mm Tab	Q281-ND	.49	.45	.36	738W-CX2-01
	AC Adapter								
21	AC Adapter 3 Prong/2 Prong	—	—	Wall Plug	Q280-ND	.74	.67	.54	738W-E-01
	Circuit Breaker Switch								
22	Illuminated, Black Body w/Red Actuator, 15 Amp	Panel	14.0 x 28.5	Solder Tab	Q278-ND	1.62	1.46	1.18	736W-B-101
22	Non-illuminated, Black Body w/Red Actuator, 15 Amp	Panel	14.0 x 28.5	Solder Tab	Q279-ND	1.37	1.24	1.00	736W-B-102
	Multi-Function Modules								
23	Male, Plastic Housing, SPST, Sgl. Fuse 5x20	Snap-In	66.0 x 27.0	Solder Tab	Q300-ND	7.85	5.61	4.66	761-18/003
	Male, Plastic Housing, DPST, Sgl. Fuse 5x20	Snap-In	66.0 x 26.9	Solder Tab	Q301-ND	10.83	7.74	6.43	761-18/004
24	Male, Metal Housing, SPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	.250” Fast-On	Q302-ND	10.45	7.47	6.20	762-18/002
	Male, Metal Housing, DPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	.250” Fast-On	Q303-ND	16.34	11.67	9.69	762-18/003
25	Male, Metal Housing, SPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	.250” Fast-On	Q304-ND	16.34	11.67	9.69	762-18/004
	Male, Metal Housing, DPST, Single Fuse 5x20	Snap-In	66.0 x 27.0	.250” Fast-On	Q305-ND	20.69	14.78	12.27	762-18/005
26	Male, Plastic Housing, DPST, Double + Fuse	Screw	58.9 x 27.5	Solder Tab	Q306-ND	8.49	6.07	5.04	763-00/001
27	Male, Plastic Housing, DPST, Double 5x20	Screw	72.4 x 27.9	Solder Tab	Q307-ND	9.77	6.98	5.80	764-00/002
28	Male, Plastic Housing, DPST, Double 5x20	Screw	72.4 x 27.9	Solder Tab	Q308-ND	11.26	8.05	6.68	764-00/003
	Low Power Inlets								
29	Male, Thermoplastic Housing	Screw	21.0 x 12.4	Solder Tab	Q309-ND	.74	.67	.54	770W-00/01
30	Male, Thermoplastic Housing	Screw	24.5 x 12.5	Solder Tab	Q310-ND	1.23	1.12	.90	771W-AX2/01
31	Male, Thermoplastic Housing	Panel	24.5 x 12.5	Solder Tab	Q311-ND	1.23	1.12	.90	771W-BX2/01
32	Male, Thermoplastic Housing	Panel	24.5 x 12.5	Solder Tab	Q312-ND	1.23	1.12	.90	771W-CX2/01

Fig.	Dimensions - Inch (mm) A	B	C	D	E	F	Digi-Key Part No.	Price Each 1	25	50	100	Qualtek Part No.
	Power Plug Retainer Clips											
33	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.250 (6.35)	.125 (3.18)	.196 (4.98)	Q264-ND	2.44	2.06	1.86	1.63	730B-00/00
	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.218 (5.54)	.125 (3.18)	.196 (4.98)	Q265-ND	3.10	2.60	2.36	2.06	732B-00/00
	1.80 (45.72)	1.11 (28.19)	1.32 (33.53)	.250 (6.35)	.125 (3.18)	.196 (4.98)	Q266-ND	2.44	2.06	1.86	1.63	730-00/05
	1.80 (45.72)	1.11 (28.19)	1.40 (35.56)	.250 (6.35)	.125 (3.18)	.352 (8.94)	Q267-ND	2.65	2.23	2.02	1.76	731B-00/00

Fig. 1

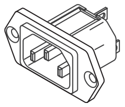

Fig. 2

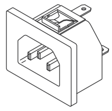

Fig. 3

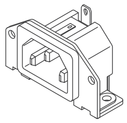

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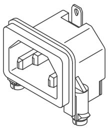

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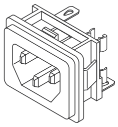

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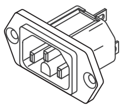

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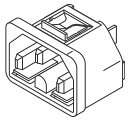

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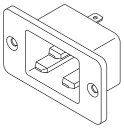

Fig. 9

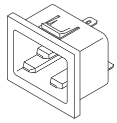

Fig. 10

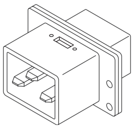

Fig. 11

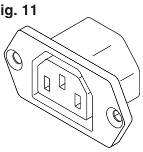

Fig. 12

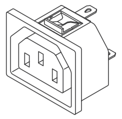

Fig. 13

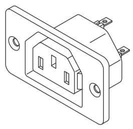

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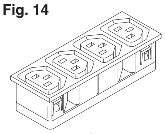

486-1026-ND:

486-1027-ND:

Fig. 15

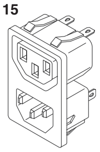

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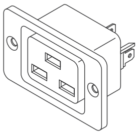

Fig. 17

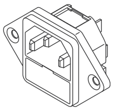

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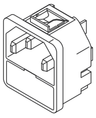

Fig. 19

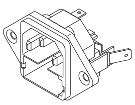

Fig. 20

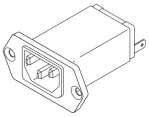

Fig. 21

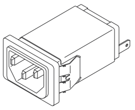

Fig. 22

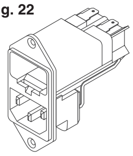

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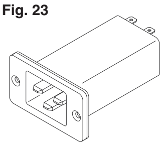

Fig. 24

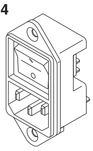

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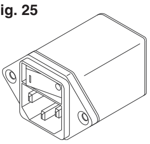

Fig. 26

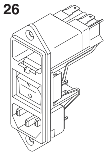

Fig. 27

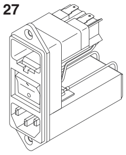

Fig. 28

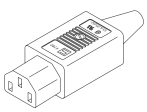

Fig. 29

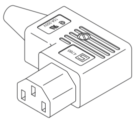

Fig. 30

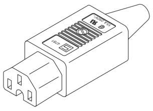

Fig. 31

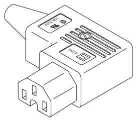

Fig. 32

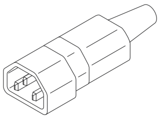

Fig. 33

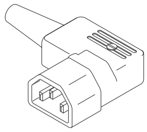

Fig. 34

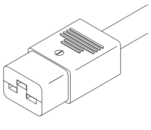

Fig. 35

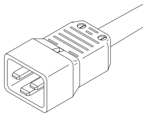

Fig.	Mounting	Terminal/ Pin Space	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
			Power Entry Modules				
1	Screw-On	Solder .138"	486-1001-ND	1.31	1.05	.95	6100.3100
	Screw-On	Q.C. .187"	486-1002-ND	1.31	1.05	.95	6100.3200
	Screw-On	Q.C. .250"	486-1003-ND	1.31	1.05	.95	6100.3300
2	Snap-In 1.5mm	Solder .138"	486-1004-ND	1.37	1.10	.99	6100.4115
	Snap-In 1.5mm	Q.C. .187"	486-1005-ND	1.37	1.10	.99	6100.4215
	Snap-In 1.5mm	Q.C. .250"	486-1006-ND	1.37	1.10	.99	6100.4315
3	Screw-On	9.05/9.7mm	486-1007-ND	1.48	1.19	1.07	GSP1.8101.1
	Screw-On	7/7.3mm	486-1008-ND	1.94	1.56	1.40	GSP1.9113.1
4	Screw-On pcb	9.05/9.7mm	486-1009-ND	2.13	1.71	1.54	GSP2.8101.13
	Screw-On pcb	9.05/9.7mm	486-1010-ND	1.79	1.44	1.30	GSP2.8201.13
5	Front Snap-In	Q.C. .187"	486-1011-ND	3.04	2.43	2.19	GSF2.1011.01
6	Screw-On	Solder .138"	486-1012-ND•	1.79	1.44	1.30	6110.3100
	Screw-On	Q.C. .250"	486-1013-ND•	1.79	1.44	1.30	6110.3300
7	Snap-In 1.5mm	Solder .138"	486-1014-ND•	1.79	1.44	1.30	6110.4115
8	Screw-On	Solder .150"	486-1015-ND	1.89	1.52	1.37	4798.9200
	Screw-On	Q.C. .250"	486-1016-ND	1.89	1.52	1.37	4798.9000
9	Snap-In 1.5mm	Solder .150"	486-1017-ND	1.89	1.52	1.37	4793.4200
	Snap-In 1.5mm	Q.C. .250"	486-1018-ND	1.89	1.52	1.37	4793.4000
10	Screw-On	inlet/outlet	486-1019-ND†	11.56	9.25	8.33	4730.0100
11	Screw-On	Solder .138"	486-1020-ND	2.08	1.67	1.50	6600.3100
	Screw-On	Q.C. .250"	486-1021-ND	2.08	1.67	1.50	6600.3300
12	Snap-In 1.5mm	Solder .138"	486-1022-ND	2.01	1.61	1.45	6600.4115
	Snap-In 1.5mm	Q.C. .250"	486-1023-ND	2.01	1.61	1.45	6600.4315
13	Screw-On	Q.C. .250"	486-1024-ND	2.91	2.33	2.10	4721.0000
	Screw-On	Solder .150"	486-1025-ND	2.91	2.33	2.10	4721.0300
14	Snap-In 1.5mm	Solder .150"	486-1026-ND	3.76	3.01	2.71	0909.0021
	Snap-In 1.5mm	Q.C. .187" Insulated	486-1027-ND	6.40	5.13	4.61	4752.4200
15	Snap-In 1.5mm	Solder/Q.C.	486-1028-ND	3.43	2.74	2.47	4300.0301
16	Screw-On	Solder/Q.C. .187"	486-1029-ND	4.31	3.45	3.11	6653.3100
17	Screw-On	Solder .138"	486-1031-ND	3.44	2.75	2.48	6200.2100
17	Screw-On	Q.C. .250"	486-1032-ND	3.44	2.75	2.48	6200.2300
18	Snap-In 1.5mm	Solder .138"	486-1033-ND	3.44	2.75	2.48	6200.4115
	Snap-In 1.5mm	Q.C. .250"	486-1034-ND	3.44	2.75	2.48	6200.4315
19	Screw-on	Q.C. .250"	486-1035-ND§	4.09	3.28	2.95	4301.0501
	Snap-In 1.5mm	Q.C. .250"	486-1036-ND§	4.09	3.28	2.95	4301.0502
20	Screw-on	Q.C. .250"	486-1038-ND	15.00	12.00	10.80	5110.0133.1
21	Snap-In .8-3.0mm	Q.C. .250"	486-1039-ND	15.00	12.00	10.80	5110.0343.1
	Snap-In .8-3.0mm	Q.C. .250"	486-1040-ND	15.00	12.00	10.80	5110.1043.1
22	Screw-On	Q.C. .187"	486-1041-ND‡	5.23	4.19	3.77	4303.0001
23	Screw-On	Q.C. .250"	486-1043-ND†	27.97	22.38	20.14	C20F.0001
24	Screw-On	Q.C. .187"	486-1044-ND	11.29	9.04	8.14	4302.2001
25	Screw-On	Q.C. .250"	486-1045-ND	34.90	27.93	25.13	4302.5002
26	Screw-On	Q.C. .187"	486-1046-ND‡	17.76	14.21	12.79	KD14.1101.151
27	Screw-On	Q.C. .187"	486-1047-ND‡	43.57	34.86	31.37	CD44.1101.151
			Fuse Drawer for Modules				
—	—	—	486-1037-ND	3.03	2.43	2.18	4301.1401
—	—	—	486-1042-ND	3.03	2.43	2.19	4303.2401

Fig.	Mounting	Max. Wire Size	Digi-Key Part No.	Price Each 1	25	50	Schurter Part No.
			Power Entry Connectors				
28	Straight Entry	18 AWG	486-1048-ND	4.67	3.74	3.37	4782.0000
29	Angled Entry	18 AWG	486-1049-ND	5.61	4.49	4.04	4785.0000
30	Straight Entry	18 AWG	486-1050-ND•	4.21	3.37	3.03	4781.0000
31	Angled Entry	18 AWG	486-1051-ND•	4.67	3.74	3.37	4784.0000
32	Straight Entry	18 AWG	486-1052-ND	6.54	5.24	4.71	4732.0000
33	Angled Entry	18 AWG	486-1053-ND	7.01	5.61	5.05	4733.0000
34	Straight Entry	14 AWG	486-1054-ND†	7.72	6.18	5.57	4795.0000
35	Straight Entry	14 AWG	486-1055-ND†	8.77	7.02	6.32	4796.0000

• High Temperature (120°C)
† High Current (20A)
§ Fuse Drawer (486-1037-ND) available for this part, sold separately.
‡ Fuse Drawer (486-1042-ND) available for this part, sold separately.

Power Entry Modules

C Series: The C series is a two-function power entry module combining a DPST switch and an IEC 320 power line connector.

EC Series: This series of filtered power entry modules provides the highest attenuation of any standard filter available in a package size limited by the dimensions of the integral IEC connector. These filters combine high common-mode inductance with high differential-mode capacitance and minimal parasitic elements, for effective attenuation of line-to-ground and line-to-line noise across the frequency range.

ED Series: These filtered power entry modules are more effective than general purpose filters in applications where line-to-line and low frequency line-to-ground noise must be controlled.

EEA Series: A new design in both the internal structure and manufacturing process makes this series cost effective and compact.

EF Series: This rugged international series of filtered power entry modules incorporates the special IEC power line connector. They are UL recognized, CSA certified, and VDE and SEV approved. Models with F suffix are SEMKO approved and comply with BSI standards.

GG Series: The GG series power entry modules combine the functions of a general purpose RFI filter with IEC power cord connector and single or dual metric fusing, in the smallest possible panel space.

EEJ Series: The 1-15 Amp versions are flange mounted and mechanically equivalent to the EEA/EEB series. The performance has been enhanced to meet the needs for more attenuation. It also has an extended metal flange around the socket for improved high frequency EMI shielding. The EEJ series also includes a 20 Amp version that uses the inlet IEC 320/C20.

EJH Series: The 1-15 Amp versions are flange mounted and mechanically equivalent to the EAH/EBH series. The performance has been enhanced to meet the needs for more attenuation. It has an improved high frequency EMI shielding and larger contact area for the panel ground. These medical filters are designed to provide common and differential mode performance while maintaining the UL leakage requirements for medical and dental equipment. The EJH series also includes a 20 Amp version that uses the inlet IEC 320/C20.

EJS Series: The 1-15 Amp versions are snap-in mounted and mechanically equivalent to the EAS/EBS series. The performance has been enhanced to meet the needs for more attenuation. It has improved high frequency EMI shielding. The EJS series also includes a 20 Amp version that uses the inlet IEC 320/C20.

H Series: The H series was developed specifically for health care applications. These products are suitable for uses in both patient care equipment and non-patient care equipment. Their extremely low leakage current allows compliance with UL544 and CSA 22.2 health care specifications.

P Series: This series of power entry modules offers full flexibility of design in the most compact package. As the first 10 Amp module to provide all five power entry functions in one compact design, the "Chameleon" readily adapts to its environment and the needs of international markets. • Snap-in or flange mounting • IEC power line connector • Both North American and European fusing capabilities • Two voltage selection • Optional DPST on/off switch • Filtering options for general purpose and medical applications.

J Series: The most widely accepted of all the power entry modules, the J series combines an IEC connector, 2 voltage, or 4 voltage selection, and a North American fuseholder.

LA Series: A multi-function power entry connector with a choice of filtering capabilities. The series features an IEC line connector, selectable North American or dual European fusing capabilities, DPST on/off switch and 120/240 voltage selection. The filtered LA units provide a one piece solution to all power entry needs and provide a filtering solution for almost any RFI problem. Their vertical design is flange mounted and will meet requirements for worldwide markets.

M Series: This series of power entry modules offers the most choices of power entry components and filtering options to fit a specific need.

SR Series: The SR series includes a full line of popular AC receptacles. These male and female power line connectors include snap-in and flange mounted models. All have complete safety agency approvals for worldwide usage.

Part Numbering System for P Series (Figure 10A & 10B)

	Mounting Style	Extender Options	Switch Options	Voltage Select	Fuse Options	Filter Type	Filter Current	Shield Options
P	E = Mtg. Ears (horiz) S = Snap-in	0 = None C = FN260 J = J Series L = L Series	0 = Blank S = DPST	0 = Single AC volt. S = Dual AC volt. select (SMPS) X = Dual AC volt. select (series/parallel)	D = Dual fuse S = Single fuse	0 = No filter B = Intercon. block H = Medical Filter S = Gen. purpose	0 = No filter or Intercon. block 3 = 3 amps 6 = 6 amps X = 10 amps	0 = No shield A = Filter shield B = Complete shield

Fig.	Rated Current 120V (Amps)	Termination	Dimensions (mm) A	B	C	D	E	F	Digi-Key Part No.	Pricing 1	25	100	Corcom Part No.
Series C — Power Entry Modules													
1	10	Faston, Straight	31.24	24.64	41.17	—	—	—	CCM1647-ND*	8.99	157.25	571.48	10CS1
Series EC — Power Entry Modules													
2	3	Faston, Straight	66.50	30.20	20.60	40.01	—	—	CCM1623-ND	23.35	408.25	1363.00	3EC1
	6	Faston, Straight	66.50	30.20	20.60	40.01	—	—	CCM1611-ND	24.05	420.50	1404.00	6EC1
	10	Faston, Straight	66.50	30.20	20.60	40.01	—	—	CCM1646-ND	25.34	443.00	1611.72	10EC1
Series ED — Power Entry Modules													
2	3	Faston, Straight	56.00	30.20	20.60	40.01	—	—	CCM1204-ND	17.71	309.75	1035.00	3ED1
	6	Faston, Straight	56.00	30.20	20.60	40.01	—	—	CCM1205-ND	17.71	309.75	1126.18	6ED1
	10	Faston, Straight	66.50	30.20	20.60	40.01	—	—	CCM1206-ND	18.26	319.00	1066.00	10ED1
	3	Wire Lead, Straight	39.40	30.20	20.60	40.01	—	—	CCM1214-ND	17.53	306.50	1025.00	3ED8
	6	Wire Lead, Straight	39.40	30.20	20.60	40.01	—	—	CCM1215-ND	17.71	309.75	1126.04	6ED8
	6	Wire Lead, Straight	50.30	30.20	20.60	40.01	—	—	CCM1218-ND	22.47	393.00	1313.00	6ED8C
	10	Faston, Straight	66.50	30.20	20.60	40.01	—	—	CCM1219-ND	24.14	422.25	1535.36	10ED1C
Series EEA — Power Entry Modules													
2	3	Faston, Straight	54.60	28.70	20.60	40.01	—	—	CCM1622-ND	11.26	197.00	717.11	3EEA1
	6	Faston, Straight	54.60	28.70	20.60	40.01	—	—	CCM1610-ND	10.41	181.75	608.00	6EEA1
	10	Faston, Straight	54.60	28.70	20.60	40.01	—	—	CCM1645-ND	11.44	200.00	666.00	10EEA1
Series EF — Power Entry Modules													
2	1	Faston, Straight	55.90	30.20	20.60	40.01	—	—	CCM1100-ND	14.75	257.75	939.31	1EF1F
	3	Faston, Straight	55.90	30.20	20.60	40.01	—	—	CCM1101-ND	14.75	257.75	939.31	3EF1F
	6	Faston, Straight	55.90	30.20	20.60	40.01	—	—	CCM1102-ND	14.75	257.75	861.00	6EF1F
	10	Faston, Straight	66.50	30.20	20.60	40.01	—	—	CCM1103-ND	14.99	262.25	952.64	10EF1F
	3	Faston, Straight	55.90	30.20	20.60	40.01	—	—	CCM1621-ND	17.68	309.00	1032.00	3EF1
	6	Faston, Straight	55.90	30.20	20.60	40.01	—	—	CCM1609-ND	17.68	309.00	1032.00	6EF1
	15	Faston, Straight	66.50	30.20	20.60	40.01	—	—	CCM1636-ND	21.81	381.00	1273.00	15EF1F
Series GG — Power Entry Modules With Fuseholders													
3	6	Faston, Straight	42.20	28.70	32.80	33.30	—	—	CCM1620-ND	15.94	278.50	1013.70	6EGG1-1
	6	Faston, Straight	42.20	28.70	32.80	33.30	—	—	CCM1650-ND†	19.44	340.00	1136.00	6EGG1-2
Series EEJ — Enhanced Performance Compact RFI Filter IEC Connector Package													
4	1	Straight	54.61	30.48	24.38	40.00	51.76	—	CCM1220-ND	11.08	193.75	646.00	1EEJ1
	3	Straight	54.61	30.48	24.38	40.00	51.76	—	CCM1221-ND	8.96	156.75	569.79	3EEJ1
	6	Straight	54.61	30.48	24.38	40.00	51.76	—	CCM1222-ND	8.36	146.25	531.08	6EEJ1
	10	Straight	54.61	30.48	24.38	40.00	51.76	—	CCM1223-ND	9.09	159.25	579.83	10EEJ1
	15	Straight	54.61	30.48	24.38	40.00	51.76	—	CCM1224-ND	9.85	172.25	624.99	15EEJ1
6	1	Right Angle	39.12	28.70	24.38	40.00	51.76	—	CCM1226-ND	11.89	207.75	693.00	1EEJ2
	3	Right Angle	39.12	28.70	24.38	40.00	51.76	—	CCM1227-ND	9.79	171.25	622.02	3EEJ2
	6	Right Angle	39.12	28.70	24.38	40.00	51.76	—	CCM1228-ND	9.09	159.25	579.49	6EEJ2
	10	Right Angle	39.12	28.70	24.38	40.00	51.76	—	CCM1229-ND	9.79	171.25	571.00	10EEJ2
	15	Right Angle	45.47	28.70	24.38	40.00	51.76	—	CCM1230-ND	10.08	176.50	642.20	15EEJ2
7	1	PCB	39.12	28.70	24.38	40.00	51.76	—	CCM1231-ND	13.27	232.25	776.00	1EEJP
	3	PCB	39.12	28.70	24.38	40.00	51.76	—	CCM1232-ND	10.55	184.75	671.51	3EEJP
	6	PCB	39.12	28.70	24.38	40.00	51.76	—	CCM1233-ND	9.81	171.50	573.00	6EEJP
	10	PCB	39.12	28.70	24.38	40.00	51.76	—	CCM1234-ND	10.55	184.75	670.91	10EEJP
	15	PCB	45.47	28.70	24.38	40.00	51.76	—	CCM1235-ND	11.98	209.25	760.79	15EEJP
Series EJH — Enhanced Performance Compact RFI Filter IEC Connector Package													
4	1	Straight	54.61	30.48	24.38	40.00	51.76	—	CCM1236-ND	10.86	189.50	634.00	1EJH1
	3	Straight	54.61	30.48	24.38	40.00	51.76	—	CCM1237-ND	10.07	176.25	640.20	3EJH1
	6	Straight	54.61	30.48	24.38	40.00	51.76	—	CCM1238-ND	9.42	164.75	599.32	6EJH1
	10	Straight	54.61	30.48	24.38	40.00	51.76	—	CCM1239-ND	10.07	176.25	639.21	10EJH1
	15	Straight	54.61	30.48	24.38	40.00	51.76	—	CCM1240-ND	9.59	167.75	609.30	15EJH1
5	20	Straight	79.38	34.79	29.99	42.01	53.00	—	CCM1241-ND	17.24	301.00	1006.00	20EJH1
6	1	Right Angle	39.12	28.70	24.38	40.00	51.76	—	CCM1242-ND	11.12	194.75	707.39	1EJH2
	3	Right Angle	39.12	28.70	24.38	40.00	51.76	—	CCM1243-ND	8.92	156.00	566.80	3EJH2
	6	Right Angle	39.12	28.70	24.38	40.00	51.76	—	CCM1244-ND	8.83	154.25	516.00	6EJH2
	10	Right Angle	39.12	28.70	24.38	40.00	51.76	—	CCM1245-ND	9.51	166.25	604.26	10EJH2
	15	Right Angle	45.47	28.70	24.38	40.00	51.76	—	CCM1246-ND	9.68	169.25	565.00	15EJH2
7	1	PCB	39.12	28.70	24.38	40.00	51.76	—	CCM1247-ND	12.91	225.75	820.67	1EJHP
	3	PCB	39.12	28.70	24.38	40.00	51.76	—	CCM1248-ND	10.79	188.50	630.00	3EJHP
	6	PCB	39.12	28.70	24.38	40.00	51.76	—	CCM1249-ND	10.70	187.00	625.00	6EJHP
	10	PCB	39.12	28.70	24.38	40.00	51.76	—	CCM1250-ND	11.71	205.00	744.48	10EJHP
	15	PCB	45.47	28.70	24.38	40.00	51.76	—	CCM1251-ND	11.63	203.25	679.00	15EJHP

* Unfiltered † Utilizes 2 5x20 fuses

(Continued)

Fig. 1

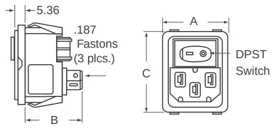

Fig. 2

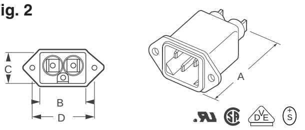

Fig. 3

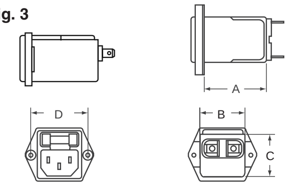

Fig. 4

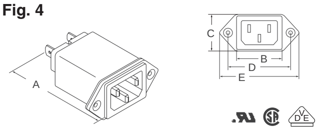

Fig. 5

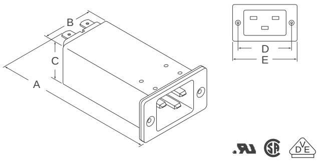

Fig. 6

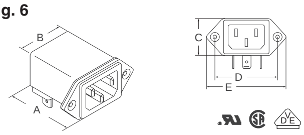

Fig. 7

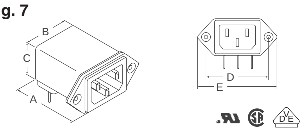

Fig. 8

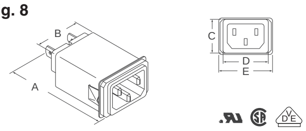

Fig. 9

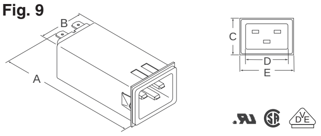

See chart for part number break down.

Fig. 10A

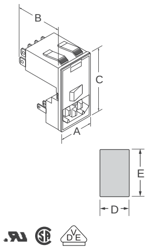

Fig. 10B

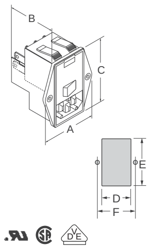

Power Entry Modules *(Cont.)*

Fig.	Rated Current 120V (Amps)	Termination	Dimensions (mm) A	B	C	D	E	F	Digi-Key Part No.	Pricing 1	25	100	Corcom Part No.
Series EJS — Enhanced Performance Snap-In Compact RFI Filter IEC Connector Package													
8	1	Straight	55.88	27.94	24.38	30.10	34.21	—	CCM1252-ND	12.04	210.75	703.00	1EJS1
	3	Straight	55.88	27.94	24.38	30.10	34.21	—	CCM1253-ND	9.94	174.00	633.23	3EJS1
	6	Straight	55.88	27.94	24.38	30.10	34.21	—	CCM1254-ND	9.31	162.50	543.00	6EJS1
	10	Straight	55.88	27.94	24.38	30.10	34.21	—	CCM1255-ND	10.02	175.00	586.00	10EJS1
	15	Straight	55.88	27.94	24.38	30.10	34.21	—	CCM1256-ND	10.05	175.50	587.00	15EJS1
9	20	Straight	79.375	34.29	29.99	37.08	36.07	—	CCM1257-ND	18.80	328.75	1097.00	20EJS1
Series H - Power Entry Modules													
2	6	Faston, Straight	55.90	30.20	20.60	40.01	—	—	CCM1607-ND	17.58	307.50	1118.97	6EH4
Series P, Chameleon — For General or Medical Applications (See chart for part number break down)													
10A	10	Faston	31.50	49.02	58.67	26.92	55.91	—	CCM1372-ND*	17.21	300.75	1004.00	PS0SXS000
	10	Faston	31.50	49.02	58.67	26.92	55.91	—	CCM1373-ND*	13.42	234.75	852.54	PS000S000
	10	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1374-ND	20.52	358.75	1306.72	PS0S0SBX0
	3	Faston	31.50	54.10	58.67	28.50	55.91	—	CCM1376-ND	25.59	447.00	1494.00	PS000SS3B
	6	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1378-ND	23.67	414.00	1383.00	PS0SXSS60
	10	Faston	31.50	54.10	58.67	28.50	55.91	—	CCM1379-ND	29.04	507.75	1695.00	PS0S0SSXA
	6	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1381-ND	23.67	414.00	1383.00	PS0SXDS60
	6	Faston	31.50	54.10	58.67	26.92	55.91	—	CCM1600-ND	23.67	414.00	1507.06	PS0S0SS60
10B	10	Faston	50.29	49.02	58.67	28.50	55.91	40.01	CCM1375-ND*	18.31	320.00	1162.90	PE0SSS000
	6	Faston	50.29	54.10	58.67	28.50	55.91	40.01	CCM1383-ND	24.77	433.00	1447.00	PE0SSSS60
	10	Faston	50.29	54.10	58.67	28.50	55.91	40.01	CCM1384-ND	27.79	485.75	1768.17	PE0SSSSX0
	3	Faston	50.29	54.10	58.67	28.50	55.91	40.01	CCM1385-ND	26.20	458.00	1531.00	PE0S0SS30

* Unfiltered   † Utilizes 2 5x20 fuses

Fig.	Rated Current 120V (Amps)	RFI Filter Type	Available Voltage Selection Position	DPST On/Off Switch	Dimensions (mm) A	B	C	D	E	Digi-Key Part No.	Pricing 1	25	100	Corcom Part No.
Series J — Power Entry Modules														
11	6	Unfiltered	4	—	68.07	38.61	29.72	31.24	—	CCM1200-ND	18.97	331.50	1107.00	6VJ1
	6	Gen. Purpose	4	—	69.85	47.50	29.73	40.13	—	CCM1201-ND	33.92	592.75	1979.00	6J4
Series LA — Power Entry Modules														
12	5	Gen. Purpose	2	—	50.50	39.90	65.79	61.21	—	CCM1614-ND	68.39	1195.50	3993.99	5EFLA2S
Series M — Power Entry Modules														
13	6	Unfiltered	1	Yes	105.92	91.95	36.83	81.8	—	CCM1001-ND	21.98	384.25	1282.00	6VM1S
	6	Unfiltered	2	Yes	118.11	104.14	36.83	94.5	—	CCM1003-ND	25.64	448.00	1498.00	6VM2S
	6	Unfiltered	4	Yes	118.11	104.14	36.83	94.5	—	CCM1005-ND	25.64	448.00	1498.00	6VM4S
	5	Medical	1	Yes	105.92	91.95	29.0	81.8	55.63	CCM1011-ND	32.59	569.50	1902.00	5EHM1S
	5	Gen. Purpose	1	Yes	105.92	91.95	29.0	81.8	55.63	CCM1021-ND	32.04	560.25	2037.20	5EFM1S
	5	Gen. Purpose	4	Yes	118.11	104.14	29.0	94.0	55.63	CCM1023-ND	35.71	624.50	2086.00	5EFM4S
14	5	Medical	4	No	98.55	84.33	29.0	74.2	55.63	CCM1012-ND	31.63	552.75	2013.25	5EHM4
	5	Gen. Purpose	1	No	86.11	72.14	29.0	62.0	55.63	CCM1020-ND	27.46	480.25	1605.00	5EFM1
Insulating Boot for M1 Version										CCM1066-ND	3.08	69.75	244.00	MA604

Fig.	Rated Current 125V (Amps)	Output Terminals	Mounting Style	Input Config.	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 1	25	100	Corcom Part No.
Series SR — AC Connector													
15	15	PC Terminals	Flange	Male	50.01	40.01	28.19	26.70	CCM1400-ND	3.33	58.25	195.00	6ESRM-P
	15	Quick Disconnect	Flange	Male	50.22	40.01	22.76	31.09	CCM1401-ND	2.53	44.00	148.00	6ESRM-3
	15	Quick Disconnect	Snap-In	Male	30.40	—	22.66	30.61	CCM1402-ND	2.67	46.25	155.00	6ESRMC2
	15	Quick Disconnect	Snap-In	Female	35.31	—	28.19	35.71	CCM1403-ND	3.09	53.75	179.00	6ESRFC3
	15	Quick Disconnect	Flange	Female	50.01	40.01	29.31	35.71	CCM1404-ND	3.09	53.75	179.00	6ESRF-3

Fig. 11

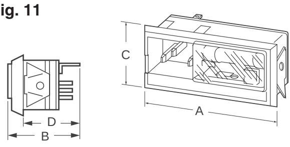

Fig. 12

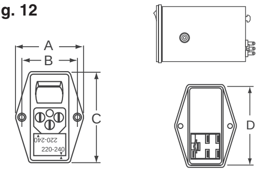

Fig. 13

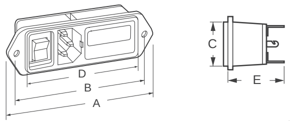

Note: Picture shown with switch.

Fig. 14

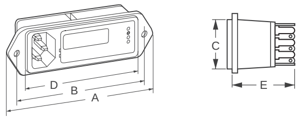

Fig. 15

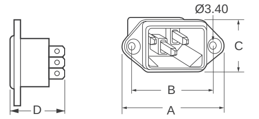

Note: Picture shown with mounting flange.

RF Line Filters

B Series: These general purpose common-mode RFI power line filters effectively provide RFI control of line-to-ground noise in a small size at a low cost.

EDP Series: These RFI power line filters provide enhanced differential-mode performance for applications requiring more line-to-line protection.

EJT Series: The EJT Series is an IEC 320/C14 input connector. This product was designed to address the demand for more noise attenuation at higher frequencies in a compact inlet.

EOP Series: A general purpose filter which is effective in removing both common and differential-mode noise for susceptibility applications.

EP Series: The EP/VP series of RFI filters has been developed to reduce conducted noise to acceptable limits for equipment that must comply with requirements of CISPAR in Europe and the FCC specifications in the USA.

H Series: The H series filters were developed specifically for health care applications. These products are suitable for uses in both patient care equipment and nonpatient care equipment. Extremely low leakage current allows compliance with UL544 and CSA 22.2 health care specifications.

HT Series: This series of power line filters provides superior common-mode and premium differential-mode attenuation to RFI noise on the frequency range from 10KHz to 30MHz, for IEC601 and UL544 patient-connected equipment, as well as all other electronic equipment that cannot tolerate any leakage current.

K Series: These power line filters are general purpose common-mode and differential-mode filters. They are effective in the control of line-to-line as well as line-to-ground RFI interference. They are particularly suited in applications where pulsed, continuous and/or intermittent RFI interference is present.

MV Series: This series answers the need for a medical filter to help equipment comply with increasing noise sources in medical applications while still meeting leakage current requirements of UL2601.

N Series: The N series RFI filters are designed to provide superior common-mode attenuation for most digital electronic equipment (particularly switching power supplies) over the frequency range of 10KHz to 30MHz.

Q Series: A series of RFI power line filters that has been developed specifically for switching power supplies and is designed to be all the line filtering needed to control conducted emissions all the way down to 10KHz.

R Series: These dual T section RFI power line filters provide premium performance at a moderate cost. They are well suited for impedance loads where noisy RFI environments are present. They control pulsed, continuous and/or intermittent interference, insuring protection of your equipment from power noise in addition to protecting the line from equipment noise.

S Series: The S series of RFI power line filters combines successful line-to-ground interference rejection filters with additional circuitry designed to reduce line-to-line noise and transients.

SK Series: This series of RFI power line filters was designed to reduce conducted noise to acceptable limits for equipment that must comply with the FCC specifications in the USA and CISPAR specifications in Europe.

T Series: These RFI power line filters provide superior common-mode and premium differential-mode attenuation, exceeded only by that of Q series filters.

U Series: The U series was designed to meet the RFI needs created by power factor corrected power supplies. This high performance filter offers a high impedance circuit to mismatch the power supply's impedance characteristics.

V and W Series: These RFI power line filters will protect equipment from malfunctions due to conducted interference coming into the equipment from the line, especially line-to-line noise and transients. The W series has a two-stage construction that provides excellent suppression at high frequency.

X Series: This series was designed to bring most digital equipment (including switching power supplies) into compliance with FCC Part 15J, Class B conducted emission limits.

Z Series: A design that brings most digital equipment (including switching power supplies) into compliance with EN55022 Level B, (as well as FCC Part 15J, Class B) conducted emission limits.

Fig.	Rated Current 120 V (Amps)	Termination	Dimension (mm) A	B	C	D	Digi-Key Part No.	Pricing 1	25	100	Corcom Part No.
Series B — Line Filter											
1	1	Faston	57.15	46.23	16.76	53.98	CCM1300-ND	14.94	261.25	950.13	1VB1
	2	Faston	57.15	46.23	16.76	53.98	CCM1301-ND	13.44	234.75	784.00	2VB1
	3	Faston	66.29	46.23	19.81	53.98	CCM1302-ND	15.52	271.50	906.00	3VB1
	5	Faston	66.29	46.23	19.81	53.98	CCM1303-ND	14.38	251.50	913.88	5VB1
	10	Faston	66.29	46.23	29.46	53.98	CCM1304-ND	16.07	281.00	938.00	10VB1
	20	Faston	85.30	52.60	29.50	60.33	CCM1634-ND	24.88	435.00	1454.00	20EB1
	20	Faston	85.34	52.58	29.46	60.33	CCM1305-ND	24.65	431.00	1439.00	20VB1
9	1	Wire Lead	24.38	46.23	16.76	53.98	CCM1310-ND	15.90	278.00	929.00	1VB3
	2	Wire Lead	24.38	46.23	16.76	53.98	CCM1311-ND	14.50	253.50	848.00	2VB3
	3	Wire Lead	33.53	46.23	19.81	53.98	CCM1312-ND	16.55	289.50	1053.85	3VB3
	5	Wire Lead	33.53	46.23	19.81	53.98	CCM1313-ND	15.23	266.00	890.00	5VB3
	10	Wire Lead	33.53	46.23	29.46	53.98	CCM1314-ND	16.81	293.75	982.00	10VB3
4	20	Stud	87.88	52.58	29.46	60.33	CCM1321-ND	29.33	513.00	1866.12	20VB6

Fig. 1

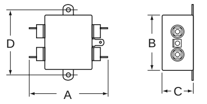

Fig. 2

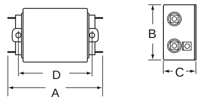

(Continued)

RF Line Filters *(Cont.)*

Fig.	Rated Current 120 V (Amps)	Termination	Dimension (mm) A	B	C	D	Digi-Key Part No.	Pricing 1	25	100	Corcom Part No.
Series EDP — For General Purpose Application											
6	1	PCB	36.6	31.50	24.15	—	CCM1364-ND	19.07	333.25	1212.73	1EDP
	3	PCB	36.6	31.50	24.15	—	CCM1365-ND	17.81	311.25	1040.00	3EDP
Series EJT1 — Compact RFI Filter For Higher Frequency Applications											
10	1A	Faston	56.6	30.2	22.2	40.0	CCM1652-ND	18.40	322.00	1171.07	1EJT1
	3A	Faston	56.6	30.2	22.2	40.0	CCM1653-ND	18.32	320.00	1070.00	3EJT1
	6A	Faston	56.6	30.2	22.2	40.0	CCM1654-ND	18.29	319.75	1069.00	6EJT1
	10A	Faston	56.6	30.2	22.2	40.0	CCM1655-ND	18.40	322.00	1169.48	10EJT1
	15A	Faston	56.6	30.2	22.2	40.0	CCM1656-ND	18.65	326.00	1185.85	15EJT1
Series EJT8 — Compact RFI Filter For Higher Frequency Applications											
10	1A	Wire Lead	56.6	30.2	22.2	40.0	CCM1657-ND	17.54	306.75	1116.39	1EJT8
	3A	Wire Lead	56.6	30.2	22.2	40.0	CCM1658-ND	17.54	306.75	1115.92	3EJT8
	6A	Wire Lead	56.6	30.2	22.2	40.0	CCM1659-ND	17.80	311.00	1039.00	6EJT8
	10A	Wire Lead	56.6	30.2	22.2	40.0	CCM1660-ND	17.88	312.50	1043.00	10EJT8
	15A	Wire Lead	56.6	30.2	22.2	40.0	CCM1661-ND	18.15	317.25	1059.00	15EJT8
Series EOP — For General Purpose Application											
6	1	PCB	36.50	31.50	19.81	8.12	CCM1366-ND	16.06	280.75	938.00	1EOP
	3	PCB	36.50	31.50	19.81	8.12	CCM1367-ND	14.38	251.50	839.00	3EOP
Series EP — Line Filter For Switching Power Supply Noise Suppression											
2	3	Faston	97.80	52.60	45.20	74.63	CCM1619-ND	36.86	644.50	2152.00	3EP1
	10	Faston	168.10	52.60	70.60	142.88	CCM1644-ND	83.49	1459.75	4875.00	10EP1
Series EXP — For Emission Control Applications											
5	3	PCB	66.80	28.70	41.15	—	CCM1370-ND	25.50	445.75	1489.00	3EXP
	6	PCB	66.29	28.70	44.45	—	CCM1371-ND	39.34	687.50	2297.00	6EXP
Series EZP — For Emission Control Applications											
5	2	PCB	66.29	28.70	44.45	—	CCM1368-ND	31.78	556.00	1855.01	2EZP
	3	PCB	66.29	28.70	44.45	—	CCM1369-ND	31.87	557.00	1860.00	3EZP
Series H — Line Filter For Healthcare Equipment											
1	6	Faston	57.20	46.10	16.70	53.98	CCM1608-ND	14.51	253.75	922.70	6EH1
Series HT — High Performance Line Filter For Medical Equipment											
2	6	Faston	90.40	54.60	46.00	74.63	CCM1606-ND	49.08	858.00	2864.00	6EHT1
Series K — Line Filter											
1	2	Faston	78.70	52.60	23.10	60.33	CCM1627-ND	17.19	300.50	1093.32	2VK1
	5	Faston	78.70	52.60	29.50	60.33	CCM1613-ND	17.49	305.75	1021.00	5VK1
	10	Faston	85.10	52.60	29.50	60.33	CCM1641-ND	18.45	322.75	1173.25	10VK1
	20	Faston	85.10	65.00	38.90	74.63	CCM1632-ND	27.53	481.75	1750.72	20VK1
	20	Faston	85.10	65.00	38.90	74.63	CCM1633-ND	27.82	486.50	1770.98	20EK1
4	20	Stud	87.90	65.00	38.90	74.63	CCM1631-ND	31.85	557.00	1859.00	20VK6
	30	Stud	135.60	85.90	38.90	95.25	CCM1625-ND	59.69	1043.50	3486.00	30VK6
9	2	Wire Lead	46.00	52.60	23.10	60.33	CCM1626-ND	18.54	324.50	1178.38	2VK3
	5	Wire Lead	46.00	52.60	29.50	60.33	CCM1612-ND	19.71	344.50	1252.73	5VK3
Series MV — Multipurpose Line Filter For Medical Applications											
2	10	Faston	98.00	52.80	38.90	74.63	CCM1642-ND	43.12	753.50	2517.00	10MV1
Series N - High Performance Line Filter for Switching Power Supplies											
2	10	Faston	119.10	57.70	45.70	103.20	CCM1649-ND	89.83	1570.50	5245.00	10VN1
Series Q — Line Filters For Switching Power Supply Emissions Down to 10kHz											
2	3	Faston	97.80	52.60	45.20	74.63	CCM1651-ND	57.43	1004.00	3353.00	3EQ1
	6	Faston	126.50	57.70	45.70	103.20	CCM1605-ND	83.27	1456.00	4864.00	6EQ1
Series R — Line Filter, 2 Stage											
2	2	Faston	85.09	45.97	29.46	60.33	CCM1331-ND	24.70	431.75	1441.00	2VR1
	3	Faston	97.79	52.58	29.46	74.63	CCM1332-ND	26.50	463.25	1546.00	3VR1
	5	Faston	97.79	52.58	29.46	74.63	CCM1333-ND	24.93	435.75	1456.00	5VR1
	10	Faston	97.79	52.58	38.86	74.63	CCM1334-ND	26.15	457.00	1527.00	10VR1
	20	Faston	132.84	85.60	38.86	95.25	CCM1335-ND	63.43	1108.75	3704.99	20VR1
	10	Stud	100.58	52.58	38.86	74.63	CCM1360-ND	31.01	542.00	1810.00	10VR6
8	2	Wire Lead	52.58	45.97	29.46	60.33	CCM1341-ND	27.31	477.50	1593.00	2VR3
	5	Wire Lead	65.02	52.58	29.46	74.63	CCM1343-ND	27.51	481.25	1752.14	5VR3
	10	Wire Lead	65.02	52.58	38.86	74.63	CCM1344-ND	27.03	472.75	1720.38	10VR3
Series S — Line Filter For Emission Control											
2	3	Faston	85.30	46.20	29.50	60.33	CCM1617-ND	32.46	567.25	1894.00	3VS1
	6	Faston	98.00	52.80	38.90	74.63	CCM1603-ND	32.46	567.25	1894.00	6VS1
	10	Faston	98.00	52.80	38.90	74.63	CCM1640-ND	38.22	668.25	2231.00	10VS1
	20	Faston	132.80	85.90	38.90	95.25	CCM1648-ND	84.50	1476.75	4932.99	20VS1
Series SK — Line Filter - High Performance K Series											
2	20	Stud	127.30	57.20	45.20	103.20	CCM1630-ND	61.51	1075.25	3592.00	20VSK6
7	30	Stud	125.00	79.25	69.85	87.30	CCM1624-ND	73.95	1293.25	4705.07	30VSK6
	40	Stud	152.40	79.25	55.40	88.90	CCM1615-ND	81.92	1432.25	5214.64	40VSK6
Series T — High Performance Line Filter For Switching Power Supplies											
2	6	Faston	90.40	54.60	46.00	74.63	CCM1604-ND	49.84	871.50	2910.01	6ET1
	10	Faston	119.10	57.70	45.70	103.20	CCM1643-ND	69.21	1209.75	4040.99	10ET1
	10	Faston	119.10	57.70	45.70	103.20	CCM1639-ND	72.00	1258.75	4580.12	10VT1
3	15	Faston	138.40	79.20	55.40	88.90	CCM1635-ND	94.72	1656.25	6024.26	15ET1
Series U — For Power Factor Corrected Power Supplies											
2	6.5	6EU1 Faston	125.73	57.66	45.72	103.12	CCM1363-ND	68.22	1192.75	3983.00	6EU1
Series V — Line Filter For Emission Control											
2	6	Faston	98.00	52.80	38.90	74.63	CCM1602-ND	36.68	641.25	2335.48	6VV1
	10	Faston	98.00	52.80	38.90	74.63	CCM1638-ND	41.38	723.25	2415.00	10VV1
3	20	Faston	132.80	85.90	38.90	95.25	CCM1629-ND	88.39	1545.25	5159.99	20VV1
Series W — Line Filter For Emission Control, 2 Stage											
2	3	Faston	85.30	46.20	32.50	60.33	CCM1616-ND	38.65	675.25	2256.00	3VW1
	6	Faston	98.00	52.80	38.90	74.63	CCM1601-ND	38.65	675.25	2256.00	6VW1
	10	Faston	98.00	52.80	38.90	74.63	CCM1637-ND	44.32	774.75	2819.79	10VW1
3	20	Faston	132.80	85.90	38.90	95.25	CCM1628-ND	90.38	1580.00	5277.98	20VW1

Fig. 3

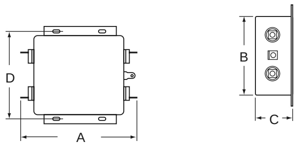

Fig. 4

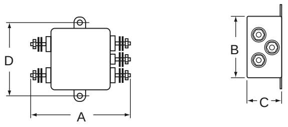

Fig. 5

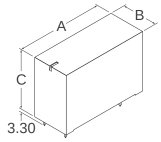

Fig. 6

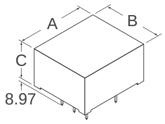

Fig. 7

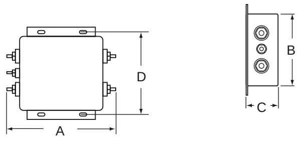

Fig. 8

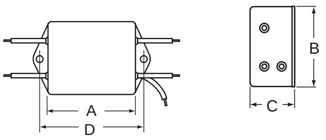

Fig. 9

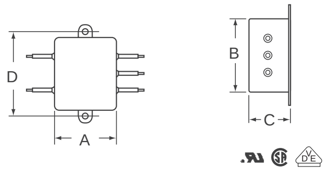

Fig. 10

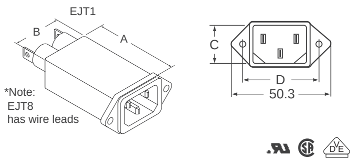

*Note:
EJT8
has wire leads

E

Power Line EMI Filters

EB Series: General purpose EMI filters, which suppress high frequency conducted noise both into and out of the equipment through the power lines. The compact and low cost designs make these a good choice for cleaning up noisy power lines.

EK Series: General purpose EMI filters with enhanced differential mode performance. They are effective in suppressing both common mode and differential mode noise. This series is a very good choice when it is required to comply with basic EMI emission regulations, such as FCC-A and VDE-A.

ER Series: High performance EMI filters with multi-stage design for both common mode and differential mode noise suppression. This series is most useful when attenuation is required for compliance with stringent EMI emission regulations such as FCC-B and VDE-B.

HB Series: General purpose EMI filters specially designed for medical and dental equipment, both patient care and nonpatient categories. The leakage current in this series is extremely low to satisfy the stringent leakage current limit imposed by safety regulations for medical and dental equipment, such as UL544 and IEC601.

Fig. 1

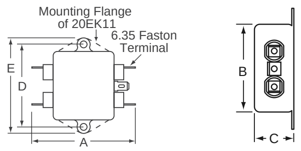

Fig. 2

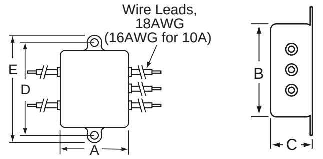

Fig. 3

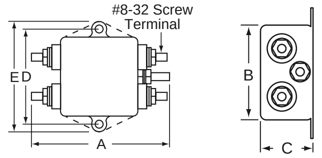

Fig. 4

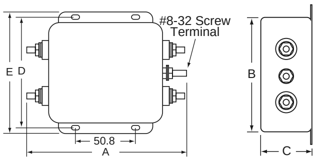

Fig. 5

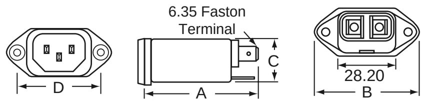

Fig. 6

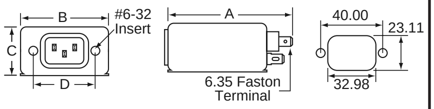

Fig. 7

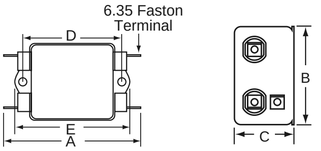

Fig. 8

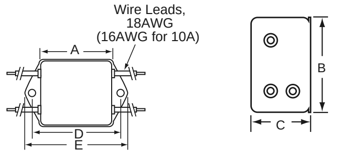

Fig. 9

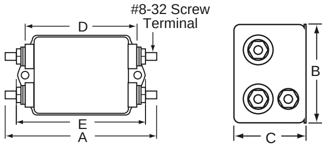

Fig.	Rated Amps	Termination	Dimensions (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	25	100	Eastek Part No.
						Series EB						
1	2A	Faston	57.2	46.2	16.8	54.0	64.3	364-1000-ND	7.64	5.73	4.46	02EB11
	3A	Faston	66.3	46.2	19.8	54.0	64.3	364-1001-ND	8.83	6.62	5.15	03EB11
	6A	Faston	66.3	46.2	19.8	54.0	64.3	364-1002-ND	8.18	6.13	4.77	06EB11
	10A	Faston	66.3	46.2	29.5	54.0	64.3	364-1008-ND	9.21	6.91	5.37	10EB11
	20A	Faston	85.3	52.6	29.5	60.3	71.4	364-1003-ND	14.85	11.14	8.66	20EB11
2	2A	Wire	24.4	46.2	16.8	54.0	64.3	364-1004-ND	8.40	6.30	4.90	02EB33
	3A	Wire	33.5	46.2	19.8	54.0	64.3	364-1005-ND	9.58	7.19	5.59	03EB33
	6A	Wire	33.5	46.2	19.8	54.0	64.3	364-1006-ND	8.83	6.62	5.15	06EB33
	10A	Wire	33.5	46.2	29.5	54.0	64.3	364-1007-ND	9.74	7.31	5.68	10EB33
3	10A	Screw	69.1	46.2	29.5	54.0	64.3	364-1009-ND	11.78	8.84	6.87	10EB66
	20A	Screw	87.9	52.6	29.5	60.3	71.4	364-1010-ND	17.50	13.13	10.21	20EB66
4	30A	Screw	135.6	85.9	38.9	95.2	106.7	364-1011-ND	33.42	25.07	19.50	30EB66
5	1A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1012-ND	8.16	6.12	4.76	01EBM1
	3A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1013-ND	6.93	5.20	4.04	03EBM1
	6A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1014-ND	6.86	5.15	4.00	06EBM1
	10A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1015-ND	7.00	5.25	4.08	10EBM1
						Series EK						
1	2A	Faston	78.7	52.6	23.1	60.3	71.4	364-1016-ND	9.76	7.32	5.69	02EK11
	3A	Faston	78.7	52.6	29.5	60.3	71.4	364-1017-ND	11.62	8.72	6.78	03EK11
	6A	Faston	78.7	52.6	29.5	60.3	71.4	364-1018-ND	9.94	7.45	5.80	06EK11
	10A	Faston	85.1	52.6	29.5	60.3	71.4	364-1019-ND	10.69	8.02	6.24	10EK11
	20A	Faston	85.1	65.0	38.9	74.6	85.1	364-1020-ND	16.61	12.46	9.69	20EK11
2	2A	Wire	46.0	52.6	23.1	60.3	71.4	364-1021-ND	10.75	8.06	6.27	02EK33
	3A	Wire	46.0	52.6	29.5	60.3	71.4	364-1022-ND	12.22	9.16	7.13	03EK33
	6A	Wire	46.0	52.6	29.5	60.3	71.4	364-1023-ND	11.42	8.57	6.66	06EK33
	10A	Wire	52.6	52.6	29.5	60.3	71.4	364-1024-ND	11.25	8.43	6.56	10EK33
6	3A	IEC320/Faston	81.5	57.2	32.5	40.0	—	364-1025-ND	13.15	9.86	7.67	03EKM1
	6A	IEC320/Faston	81.5	57.2	32.5	40.0	—	364-1026-ND	12.14	9.10	7.08	06EKM1
	10A	IEC320/Faston	94.2	57.2	32.5	40.0	—	364-1027-ND	13.48	10.11	7.87	10EKM1
3	10A	Screw	87.9	52.6	29.5	60.3	71.4	364-1028-ND	13.20	9.90	7.70	10EK66
	20A	Screw	87.9	65.0	38.9	74.6	85.1	364-1029-ND	19.21	14.40	11.20	20EK66
4	30A	Screw	135.6	85.9	38.9	95.2	106.7	364-1030-ND	35.98	26.98	21.00	30EK66
						Series ER						
7	2A	Faston	85.1	46.0	29.5	60.3	70.6	364-1031-ND	14.75	11.06	8.60	02ER11
	3A	Faston	97.8	52.6	29.5	74.6	85.1	364-1032-ND	15.82	11.87	9.23	03ER11
	6A	Faston	97.8	52.6	29.5	74.6	85.1	364-1033-ND	14.87	11.15	8.67	06ER11
	10A	Faston	97.8	52.6	38.9	74.6	85.1	364-1034-ND	15.60	11.70	9.10	10ER11
	20A	Faston	132.8	85.6	38.9	95.2	106.7	364-1035-ND	37.88	28.41	22.10	20ER11
8	2A	Wire	52.6	46.0	29.5	60.3	70.6	364-1036-ND	16.28	12.21	9.50	02ER33
	3A	Wire	65.0	52.6	29.5	74.6	85.1	364-1037-ND	16.87	12.65	9.84	03ER33
	6A	Wire	65.0	52.6	29.5	74.6	85.1	364-1038-ND	16.43	12.33	9.59	06ER33
	10A	Wire	65.0	52.6	38.9	74.6	85.1	364-1039-ND	16.16	12.12	9.42	10ER33
6	3A	IEC320/Faston	110.0	57.2	32.5	40.0	—	364-1040-ND	18.26	13.69	10.65	03ERM1
	6A	IEC320/Faston	110.0	57.2	32.5	40.0	—	364-1041-ND	17.23	12.92	10.05	06ERM1
	10A	IEC320/Faston	110.0	57.2	38.9	40.0	—	364-1042-ND	18.53	13.90	10.81	10ERM1
9	10A	Screw	100.6	52.6	38.9	74.6	85.1	364-1043-ND	18.51	13.88	10.80	10ER66
4	20A	Screw	135.6	85.6	38.9	95.2	106.7	364-1044-ND	38.87	29.15	22.67	20ER66
	30A	Screw	151.1	79.2	55.4	88.9	100.6	364-1045-ND	66.00	49.50	38.50	30ER66
						Series HB						
1	6A	Faston	66.3	46.2	19.8	54.0	64.3	364-1046-ND	8.34	6.25	4.86	06HB11
2	6A	Wire	33.5	46.2	19.8	54.0	64.3	364-1047-ND	9.48	7.11	5.53	06HB33
5	6A	IEC320/Faston	54.5	50.3	20.8	40.0	—	364-1048-ND	10.30	7.72	6.01	06HBM1

NEW! ELNA AMERICA, INC.

Audio Aluminum Electrolytic Capacitors

RFS Series

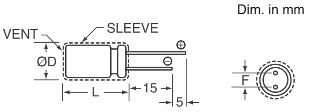

ELNA developed new raw material for the separate paper which uses a silk fiber. Therefore, this series can give high grade sound for any audio design. This series can be used to relieve the music's vibration energy, to decrease the peak feeling sound at high compass and rough quality sound at middle compass, and to increase massive sound at low compass.

Specifications: • Operating Temperature Range: -40°C ~ 85°C • Standards: JIS C5101-1, -4 1998 (IEC 60384-1 1992, -4 1985)

WV DC	Cap. (µF)	Rated Ripple Current (mArms)	Dimensions (mm)			Digi-Key Part No.	Pricing			ELNA Part No.
			D	L	F		1	10	100	
25	4.7	25	5.0	11.0	2.0	604-1049-ND	.09	.75	5.88	RFS-25V4R7ME3
	10	35	5.0	11.0	2.0	604-1050-ND	.09	.75	5.88	RFS-25V100ME3
	22	60	5.0	11.0	2.0	604-1051-ND	.09	.75	5.88	RFS-25V220ME3
	22	80	6.3	11.0	2.5	604-1052-ND	.14	1.08	8.46	RFS-25V220MF3
	33	120	8.0	11.5	3.5	604-1053-ND	.21	1.68	13.16	RFS-25V330MG3
	47	140	8.0	11.5	3.5	604-1054-ND	.21	1.68	13.16	RFS-25V470MG3
	100	270	10.0	16.0	5.0	604-1055-ND	.39	3.15	24.68	RFS-25V101MH4
	220	505	12.5	20.0	5.0	604-1056-ND	.69	5.52	43.24	RFS-25V221MI5
	330	675	12.5	25.0	5.0	604-1057-ND	.88	7.05	55.23	RFS-25V331MI6
	470	940	16.0	25.0	7.5	604-1058-ND	1.34	10.71	83.90	RFS-25V471MJ6
	1000	1575	16.0	35.5	7.5	604-1059-ND	2.35	18.81	147.35	RFS-25V102MJ8

WV DC	Cap. (µF)	Rated Ripple Current (mArms)	Dimensions (mm)			Digi-Key Part No.	Pricing			ELNA Part No.
			D	L	F		1	10	100	
35	4.7	30	5.0	11.0	2.0	604-1060-ND	.09	.75	5.88	RFS-35V4R7ME3
	10	35	5.0	11.0	2.0	604-1061-ND	.09	.75	5.88	RFS-35V100ME3
	22	95	8.0	11.5	3.5	604-1062-ND	.21	1.68	13.16	RFS-35V220MG3
	33	140	10.0	12.5	5.0	604-1063-ND	.31	2.49	19.51	RFS-35V330MH3
	47	170	10.0	12.5	5.0	604-1064-ND	.31	2.49	19.51	RFS-35V470MH3
	100	295	10.0	20.0	5.0	604-1065-ND	.51	4.05	31.73	RFS-35V101MH5
	220	550	12.5	25.0	5.0	604-1066-ND	.88	7.05	55.23	RFS-35V221MI6
	330	785	16.0	25.0	7.5	604-1067-ND	1.34	10.71	83.90	RFS-35V331MJ6
	470	1030	16.0	31.5	7.5	604-1068-ND	1.58	12.60	98.70	RFS-35V471MJ7
	1000	1690	18.0	35.5	7.5	604-1069-ND	2.51	20.07	157.22	RFS-35V102MK8

BC COMPONENTS

SAL-A 123

Axial Solid AL Electrolytic Capacitors

FEATURES:

- Polarized aluminum electrolytic capacitors, solid electrolyte MnO2
- Axial leads, aluminum case, ceramic seal, blue insulation sleeve.
- SAL-A: standard version
- Extremely long useful life: 20,000 hours at 125°C
- Extended usable temperature range up to 200°C
- Excellent low temperature impedance and ESR behavior
- Charge and discharge proof, application with 0 Ω resistance allowed
- Reverse DC voltage up to 0.3 x U_R allowed
- AC voltage up to 0.8 x U_R allowed
- Advanced technology to achieve high reliability and high stability

APPLICATIONS:

- EDP, telecommunications, general industrial, automotive, military and space
- Smoothing, filtering, buffering, timing
- For power supplies, DC/DC converters

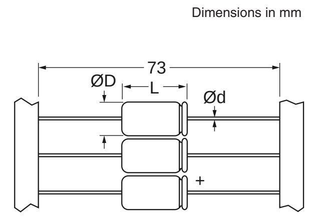

Form BA: Taped in box (ammopack)

DESCRIPTION	VALUE
Case sizes ($ØD_{nom}$ x L_{nom} in mm)	6.7 x 15.3 to 12.9 x 32.0
Rated capacitance range (E6 Series), C_R	1.5 to 2200 µF
Tolerance on C_R	±20%
Rated voltage range, U_R	6.3 to 40V
Category temperature range	-55°C ~ 125°C
Usable temperature range	-80°C ~ 200°C
Endurance test at 155 and 125°C	5000 and 8000 hours
Useful life at 40°C, I_R applied	450,000 hours
Shelf life at 0 V, 125°C	500 hours
Based on sectional specification	IEC 384-4/CECC 30300
Detail specification	IEC384-4-2/CECC 30302
Climatic category IEC 68 (DIN 40040; NF C20-600)	55/125/56 (FKD; 434)
Approvals	CNET LNZ 44-04 COS-C (PTT) Gam-t-1 (MIL) CECC 30302-003

WV (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ	Ripple Curr. (mA)	Dimensions (mm)			Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape and Box Pricing				BC Components Part No.
					L	D	d		1	10		100	500	1,000	5,000	
6.3	47	15	0.180	58	15.3	6.7	0.6	4264PHCT-ND	4.25	38.91	—	—	—	—	—	2222 123 13479
	68	21	0.180	83	15.3	6.7	0.6	4265PHCT-ND	5.96	54.64	4265PHTB-ND	466.90	1908.59	2965.36	2798.31/M	2222 123 13689
	330	104	0.180	330	23.3	9.3	0.6	4267PHCT-ND	7.42	68.03	—	—	—	—	—	2222 123 13331
	680	214	0.180	680	32	10.3	0.6	4268PHCT-ND	9.39	86.12	4268PHTB-ND	735.93	3008.32	4674.01	4410.71/M	2222 123 13681
	1000	315	0.180	940	32	12.9	0.6	4269PHCT-ND	11.17	102.40	4269PHTB-ND	875.07	3577.12	5557.73	5244.65/M	2222 123 13102
	1500	473	0.180	1220	32	12.9	0.6	4270PHCT-ND	6.01	55.11	—	—	—	—	—	2222 123 13152
10	33	17	0.180	63	15.3	6.7	0.6	4271PHCT-ND	6.04	55.36	4271PHTB-ND	473.10	1933.95	3004.76	2835.50/M	2222 123 14339
	47	24	0.180	83	15.3	6.7	0.6	4272PHCT-ND	4.25	38.91	4272PHTB-ND	332.53	1359.30	2111.93	1992.96/M	2222 123 14479
	68	34	0.180	110	20.4	7.6	0.6	4273PHCT-ND	3.85	35.26	4273PHTB-ND	494.75	2022.42	3142.22	2965.21/M	2222 123 14689
	150	75	0.180	240	23.3	9.3	0.6	4275PHCT-ND	4.13	37.87	4275PHTB-ND	547.29	2237.22	3475.95	3280.14/M	2222 123 14151
	220	110	0.180	350	23.3	9.3	0.6	4276PHCT-ND	7.54	69.11	4276PHTB-ND	590.60	2414.27	3751.03	3539.72/M	2222 123 14221
	330	165	0.180	490	32	10.3	0.8	4277PHCT-ND	4.46	40.92	—	—	—	—	—	2222 123 14331
	470	235	0.180	570	32	10.3	0.8	4278PHCT-ND	4.49	41.11	—	—	—	—	—	2222 123 14471
	680	340	0.180	760	32	12.9	0.8	4279PHCT-ND	5.17	47.41	4279PHTB-ND	881.25	3602.38	5596.99	5281.69/M	2222 123 14681
	1000	500	0.180	1000	32	12.9	0.8	4280PHCT-ND	13.82	126.65	4280PHTB-ND	1082.25	4424.01	6873.55	6486.34/M	2222 123 14102
16	10	16	0.140	31	15.3	6.7	0.6	4281PHCT-ND	6.00	55.00	4281PHTB-ND	470.00	1921.27	2985.06	2816.90/M	2222 123 15109
	15	24	0.140	47	15.3	6.7	0.6	4282PHCT-ND	3.69	33.83	—	—	—	—	—	2222 123 15159
	22	35	0.140	63	15.3	6.7	0.6	4283PHCT-ND	6.16	56.45	4283PHTB-ND	482.36	1971.80	3063.57	2890.99/M	2222 123 15229
	33	55	0.140	89	20.4	7.6	0.6	4284PHCT-ND	6.28	57.53	4284PHTB-ND	491.64	2009.74	3122.52	2946.62/M	2222 123 15339
	47	75	0.140	120	20.4	7.6	0.6	4285PHCT-ND	6.43	58.98	4285PHTB-ND	504.00	2060.27	3201.03	3020.71/M	2222 123 15479
	68	110	0.140	180	20.4	7.6	0.6	4286PHCT-ND	6.67	61.15	4286PHTB-ND	522.57	2136.15	3318.94	626.40/M	2222 123 15689
	100	160	0.140	260	23.3	9.3	0.6	4287PHCT-ND	7.07	64.77	4287PHTB-ND	553.50	2262.58	3515.36	3317.33/M	2222 123 15101
	150	240	0.160	310	23.3	9.3	0.6	4288PHCT-ND	7.62	69.84	—	—	—	—	—	2222 123 15151
	220	350	0.160	420	32	10.3	0.8	4289PHCT-ND	8.45	77.43	4289PHTB-ND	661.71	2704.96	4202.67	3965.92/M	2222 123 15221
	330	500	0.160	510	32	10.3	0.8	4290PHCT-ND	4.44	40.73	4290PHTB-ND	760.65	3109.38	4831.02	4558.87/M	2222 123 15331
	470	750	0.160	680	32	12.9	0.8	4291PHCT-ND	11.33	103.85	4291PHTB-ND	887.43	3627.65	5636.24	5318.73/M	2222 123 15471
	680	870	0.160	850	32	12.9	0.8	4292PHCT-ND	13.74	125.92	4292PHTB-ND	1076.04	4398.65	6834.15	6449.16/M	2222 123 15681
25	15	35	0.140	60	15.3	6.7	0.6	4294PHCT-ND	6.00	55.00	4294PHTB-ND	470.00	1921.27	2985.06	2816.90/M	2222 123 16159
	22	55	0.140	88	20.4	7.6	0.6	4295PHCT-ND	6.20	56.81	—	—	—	—	—	2222 123 16229
	47	100	0.140	160	20.4	7.6	0.6	4297PHCT-ND	6.83	62.60	—	—	—	—	—	2222 123 16479
	68	170	0.140	230	23.3	9.3	0.6	4298PHCT-ND	7.34	67.30	—	—	—	—	—	2222 123 16689
	100	250	0.160	250	23.3	9.3	0.6	4299PHCT-ND	8.13	74.54	4299PHTB-ND	636.97	2603.80	4045.50	3817.61/M	2222 123 16101
	150	400	0.160	350	32	10.3	0.8	4300PHCT-ND	4.42	40.51	—	—	—	—	—	2222 123 16151
	330	800	0.160	600	32	12.9	0.8	4302PHCT-ND	13.93	127.73	—	—	—	—	—	2222 123 16331
35	1.5	5.0	0.120	7.0	15.3	6.7	0.6	4304PHCT-ND	4.22	38.67	4304PHTB-ND	330.41	1350.65	2098.50	1980.28/M	2222 123 10158
	2.2	5.0	0.120	10	15.3	6.7	0.6	4305PHCT-ND	5.88	53.91	4305PHTB-ND	460.72	1883.32	2926.11	2761.27/M	2222 123 10228
	3.3	7.0	0.120	14	15.3	6.7	0.6	4306PHCT-ND	5.96	54.64	—	—	—	—	—	2222 123 10338
	6.8	15	0.120	27	15.3	6.7	0.6	4308PHCT-ND	6.16	56.45	4308PHTB-ND	482.36	1971.80	3063.57	2890.99/M	2222 123 10688
	10	20	0.120	37	20.4	7.6	0.6	4309PHCT-ND	6.32	57.90	4309PHTB-ND	494.75	2022.42	3142.22	2965.21/M	2222 123 10109
	15	30	0.120	53	20.4	7.6	0.6	4310PHCT-ND	6.59	60.43	—	—	—	—	—	2222 123 10159
	22	45	0.120	78	20.4	7.6	0.6	4311PHCT-ND	6.99	64.04	—	—	—	—	—	2222 123 10229
	33	65	0.120	120	23.3	9.3	0.6	4312PHCT-ND	5.15	47.22	—	—	—	—	—	2222 123 10339
	47	95	0.120	140	23.3	9.3	0.6	4313PHCT-ND	8.37	76.71	4313PHTB-ND	655.53	2679.69	4163.41	3928.88/M	2222 123 10479
	68	135	0.160	170	32	10.3	0.8	4314PHCT-ND	9.51	87.21	4314PHTB-ND	745.21	3046.27	4732.96	4466.34/M	2222 123 10689
	100	200	0.160	220	32	12.9	0.8	4315PHCT-ND	11.29	103.49	4315PHTB-ND	884.35	3615.06	5616.69	5300.28/M	2222 123 10101
	150	300	0.160	290	32	12.9	0.8	4316PHCT-ND	14.01	128.46	4316PHTB-ND	1097.71	4487.22	6971.76	6579.01/M	2222 123 10151
40	2.2	9.0	0.120	11	15.3	6.7	0.6	4317PHCT-ND	3.74	34.24	4317PHTB-ND	460.72	1883.32	2926.11	2761.27/M	2222 123 17228
	3.3	13	0.120	16	15.3	6.7	0.6	4318PHCT-ND	5.92	54.28	4318PHTB-ND	463.82	1896.01	2945.81	2779.86/M	2222 123 17338
	4.7	19	0.120	22	15.3	6.7	0.6	4319PHCT-ND	3.74	34.24	4319PHTB-ND	470.00	1921.27	2985.06	2816.90/M	2222 123 17478
	10	40	0.120	41	20.4	7.6	0.6	4321PHCT-ND	6.24	57.17	—	—	—	—	—	2222 123 17109
	15	60	0.120	61	20.4	7.6	0.6	4322PHCT-ND	6.47	59.34	4322PHTB-ND	507.11	2072.95	3220.73	3039.30/M	2222 123 17159
	68	270	0.160	170	32	10.3	0.8	4326PHCT-ND	5.84	53.52	4326PHTB-ND	457.31	1869.40	2904.46	2740.85/M	2222 123 17689
	100	400	0.160	220	32	12.9	0.8	4327PHCT-ND	10.58	96.97	—	—	—	—	—	2222 123 17101

BC COMPONENTS

ASM 021

Axial Standard Miniature Electrolytic Capacitors

FEATURES:
- Polarized aluminum electrolytic capacitors, non-solid
- Axial leads, cylindrical aluminum case, insulated with a blue sleeve
- Charge and discharge proof
- Case Ø10mm x 30mm to 21mm x 40mm with pressure relief
- Taped versions up to case Ø15mm x 30mm available for automatic insertion
- Miniaturized, high CV-product per unit volume

APPLICATIONS:
- General purpose, industrial, automotive, audio-video
- Coupling, decoupling, smoothing, filtering, buffering and timing
- Portable and mobile equipment (small size, low mass)
- Low mounting height boards, vibration and shock resistant.

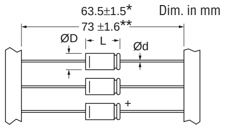

Case size 10 x 30 and above are bulk
Form BA: Taped in box (ammo pack)
*Case ØD x L =
4.5 x 10 to 8 x 11mm
**Case ØD x L =
6.5 x 18 to 10 x 25mm

DESCRIPTION	VALUE	
Case sizes (ØD$_{nom}$ x L$_{nom}$ in mm)	4.5 x 10 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C$_R$	0.47 ~ 15,000µF	
Tolerance on C$_R$	±20%	
Rated voltage range, U$_R$	6.3 ~ 100V	
Category temperature range	–40°C ~ 85°C	
Endurance test at 85°C: U$_R$ = 6.3 ~ 25V U$_R$ = 40 ~ 100V	1,000 hours 2,000 hours	5,000 hours 5,000 hours
Useful life at 85°C	2,500 hours	8,000 hours
Useful life at 40°C, 1.4 x I$_R$ applied	70,000 hours	200,000 hours
Shelf life at 0 V, 85°C	500 hours	500 hours
Based on sectional specification: U$_R$ = 6.3 ~ 25V U$_R$ = 40 ~ 100V	IEC 384-4/CECC 30300 GP grade LL grade	IEC384-4/CECC 30300 LL grade LL grade
Climatic category IEC 68 (DIN 40040)	40/085/56 (GPF)	

WV (VDC)	Cap. (µF)	Leakage Curr. (µA)	tan d	Ripple Curr. (mA)	Dimensions (mm)			Digi-Key Part No.	Pricing*			Digi-Key Part No.	Pricing*				BC Components Part No.
					L	D	d		1	10	100		500	1,000	5,000	10,000	
6.3	470	22	0.250	260	11	8.0	0.6	4000PHCT-ND	.70	6.04	47.31	4000PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 33471
	1000	42	0.250	440	18	8.0	0.8	4001PHCT-ND	.81	6.91	54.12	4001PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 33102
	2200	87	0.290	710	25	10	0.8	4002PHCT-ND	1.17	10.07	78.84	4002PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90589
10	100	10	0.200	100	10	4.5	0.6	4003PHCT-ND	.50	4.30	33.70	4003PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 34101
	220	17	0.200	160	10	6.0	0.6	4004PHCT-ND	.55	4.74	37.11	4004PHTB-ND	—	235.67	222.40/M	205.07/M	2222 021 34221
	330	24	0.200	230	11	8.0	0.6	4005PHCT-ND	.70	6.04	47.31	4005PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 34331
	470	32	0.200	310	18	6.5	0.8	4006PHCT-ND	.70	6.04	47.31	4006PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 34471
	680	45	0.200	400	18	8.0	0.8	4007PHCT-ND	.81	6.91	54.12	—	—	—	—	—	2222 021 34681
	1000	64	0.200	550	18	10	0.8	4008PHCT-ND	.93	7.94	62.16	4008PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 34102
	1500	94	0.230	690	25	10	0.8	4009PHCT-ND	1.17	10.07	78.84	4009PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90525
	1500	94	0.230	740	30	10	0.8	4010PHBK-ND	1.38	11.86	92.92	—	379.84	590.15	556.91/M	513.51/M	2222 021 14152
	2200	136	0.250	800	30	12.5	0.8	4011PHBK-ND	1.52	13.04	102.18	—	417.68	648.95	612.40/M	564.68/M	2222 021 14222
	3300	202	0.270	1000	30	12.5	0.8	4012PHBK-ND	1.67	14.29	111.93	—	457.55	710.89	670.85/M	618.58/M	2222 021 14332
	4700	286	0.290	1180	30	15	0.8	4013PHBK-ND	1.94	16.62	130.17	—	532.10	826.71	780.14/M	719.35/M	2222 021 14472
16	68	11	0.160	90	10	4.5	0.6	4017PHCT-ND	.50	4.30	33.70	4017PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 35689
	150	18	0.160	140	10	6.0	0.6	4018PHCT-ND	.55	4.74	37.11	4018PHTB-ND	—	235.67	222.40/M	205.07/M	2222 021 35151
	220	25	0.160	210	11	8.0	0.6	4019PHCT-ND	.70	6.04	47.31	4019PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 35221
	330	36	0.160	290	18	6.5	0.8	4020PHCT-ND	.70	6.04	47.31	4020PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 35331
	470	49	0.160	380	18	8.0	0.8	4021PHCT-ND	.81	6.91	54.12	4021PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 35471
	680	69	0.160	500	18	10	0.8	4022PHCT-ND	.93	7.94	62.16	4022PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 35681
	1000	100	0.160	660	25	10	0.8	4023PHCT-ND	1.17	10.07	78.84	4023PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90518
	1000	100	0.160	700	30	10	0.8	4024PHBK-ND	1.39	11.89	93.13	—	380.70	591.49	558.17/M	514.68/M	2222 021 15102
	2200	216	0.210	890	30	12.5	0.8	4026PHBK-ND	1.66	14.21	111.32	—	455.05	707.01	667.19/M	615.20/M	2222 021 15222
	3300	321	0.230	1130	30	15	0.8	4027PHBK-ND	1.98	16.94	132.66	—	542.28	842.53	795.07/M	733.12/M	2222 021 15332
	4700	455	0.250	1410	30	18	0.8	4028PHBK-ND	2.38	20.37	159.54	—	652.18	1013.28	956.20/M	881.69/M	2222 021 15472
	6800	656	0.300	1780	38	18	0.8	4029PHBK-ND	2.98	25.58	200.36	—	819.04	1272.53	1200.85/M	1107.28/M	2222 021 15682
	10000	964	0.360	2170	38	21	0.8	4030PHBK-ND	3.91	33.47	262.21	—	1071.88	1665.36	1571.55/M	1449.09/M	2222 021 15103
25	47	11	0.140	80	10	4.5	0.6	4031PHCT-ND	.50	4.30	33.70	4031PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 36479
	100	19	0.140	150	10	6.0	0.6	4032PHCT-ND	.55	4.74	37.11	4032PHTB-ND	—	235.67	222.40/M	205.07/M	2222 021 36101
	150	27	0.140	190	11	8.0	0.6	4033PHCT-ND	.70	6.04	47.31	4033PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90535
	150	27	0.140	210	18	6.5	0.8	4034PHCT-ND	.70	6.04	47.31	4034PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 36151
	220	37	0.140	250	18	6.5	0.8	4035PHCT-ND	.70	6.04	47.31	4035PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 36221
	330	54	0.140	340	18	8.0	0.8	4036PHCT-ND	.81	6.91	54.12	4036PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 36331
	470	75	0.140	450	18	10	0.8	4037PHCT-ND	.93	7.94	62.16	4037PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 36471
	680	106	0.140	560	25	10	0.8	4038PHCT-ND	1.17	10.07	78.84	4038PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90528
	1000	154	0.140	720	30	12.5	0.8	4040PHBK-ND	1.52	13.04	102.13	—	417.49	648.65	612.12/M	564.42/M	2222 021 16102
	1500	229	0.170	790	30	12.5	0.8	4041PHBK-ND	1.67	14.29	111.93	—	457.55	710.89	670.85/M	618.58/M	2222 021 16152
	2200	334	0.190	1030	30	15	0.8	4042PHBK-ND	1.96	16.82	131.72	—	538.44	836.56	789.44/M	727.93/M	2222 021 16222
	3300	499	0.210	1310	30	18	0.8	4043PHBK-ND	2.42	20.76	162.64	—	664.86	1032.98	974.79/M	898.83/M	2222 021 16332
	4700	709	0.230	1680	38	18	0.8	4044PHBK-ND	3.01	25.82	202.22	—	826.63	1284.32	1211.98/M	1117.54/M	2222 021 16472
	4700	709	0.230	1680	38	18	0.8	4328PHBK-ND◊ ***NEW!***	3.01	25.82	202.22	—	826.63	1284.32	1211.98/M	1445.72/M	2222 021 90062
	6800	1024	0.280	2070	38	21	0.8	4045PHBK-ND	3.90	33.40	261.60	—	1069.38	1661.48	1567.89/M	1445.72/M	2222 021 16682
40	22	9.0	0.110	60	10	4.5	0.6	4046PHCT-ND	.50	4.30	33.70	4046PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 37229
	47	15	0.110	110	10	6.0	0.6	4047PHCT-ND	.55	4.74	37.11	4047PHTB-ND	—	235.67	222.40/M	205.07/M	2222 021 37479
	100	28	0.110	170	11	8.0	0.6	4048PHCT-ND	.70	6.04	47.31	4048PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90538
	100	28	0.110	190	18	6.5	0.8	4049PHCT-ND	.70	6.04	47.31	4049PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 37101
	150	40	0.110	250	18	8.0	0.8	4050PHCT-ND	.81	6.91	54.12	4050PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 37151
	220	57	0.110	330	18	10	0.8	4051PHCT-ND	.93	7.94	62.16	4051PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 37221
	330	83	0.110	430	25	10	0.8	4052PHCT-ND	1.17	10.07	78.84	4052PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 37331
	470	117	0.110	520	25	10	0.8	4053PHCT-ND	1.17	10.07	78.84	4053PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90515
	470	117	0.120	570	30	10	0.8	4054PHBK-ND	1.25	10.70	83.80	—	342.56	532.24	502.26/M	463.12/M	2222 021 17471
	680	167	0.120	620	30	12.5	0.8	4055PHBK-ND	1.54	13.19	103.35	—	422.49	656.41	619.44/M	571.17/M	2222 021 17681
	1000	244	0.120	770	30	12.5	0.8	4056PHBK-ND	1.61	13.82	108.22	—	442.37	687.31	648.60/M	598.06/M	2222 021 17102
	1500	364	0.150	930	30	15	0.8	4057PHBK-ND	1.96	16.78	131.41	—	537.19	834.62	787.61/M	726.24/M	2222 021 17152
	2200	532	0.170	1200	30	18	0.8	4058PHBK-ND	2.45	20.96	164.19	—	671.20	1042.83	984.09/M	907.41/M	2222 021 17222
	3300	796	0.190	1550	38	18	0.8	4059PHBK-ND	3.21	27.47	215.21	—	879.75	1366.86	1289.86/M	1189.35/M	2222 021 17332
	4700	1132	0.210	1880	38	21	0.8	4060PHBK-ND	4.18	35.80	280.45	—	1146.42	1781.19	1680.85/M	1549.87/M	2222 021 17472
63	0.47	4.2	0.090	8.0	10	4.5	0.6	4061PHCT-ND	.46	3.91	30.62	4061PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38477
	1.0	4.4	0.090	12	10	4.5	0.6	4062PHCT-ND	.46	3.91	30.62	4062PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38108
	2.2	4.8	0.090	21	10	4.5	0.6	4063PHCT-ND	.46	3.91	30.62	4063PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38228
	3.3	5.2	0.090	25	10	4.5	0.6	4064PHCT-ND	.46	3.91	30.62	4064PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38338
	4.7	5.8	0.090	31	10	4.5	0.6	4065PHCT-ND	.46	3.91	30.62	4065PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38478
	10	7.8	0.080	50	10	4.5	0.6	4066PHCT-ND	.46	3.91	30.62	4066PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 38109
	15	9.5	0.080	55	10	4.5	0.6	4067PHCT-ND	.50	4.30	33.70	4067PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 38159
	22	12	0.080	90	10	6.0	0.6	4068PHCT-ND	.50	4.30	33.70	4068PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 38229
	33	16	0.080	100	10	6.0	0.6	4069PHCT-ND	.55	4.74	37.11	4069PHTB-ND	—	235.67	222.40/M	205.07/M	2222 021 38339
	47	22	0.080	140	11	8.0	0.6	4070PHCT-ND	.70	6.04	47.31	4070PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90542
	47	22	0.080	150	18	6.5	0.8	4071PHCT-ND	.70	6.04	47.31	4071PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 38479
	68	30	0.080	160	11	8.0	0.6	4072PHCT-ND	.70	6.04	47.31	4072PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90545
	68	30	0.080	170	18	6.5	0.8	4073PHCT-ND	.70	6.04	47.31	4073PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 38689
	100	42	0.080	250	18	8.0	0.8	4074PHCT-ND	.81	6.91	54.12	4074PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 38101
	150	61	0.080	320	18	10	0.8	4075PHCT-ND	.93	7.94	62.16	4075PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 38151
	220	88	0.080	430	25	10	0.8	4076PHCT-ND	1.17	10.07	78.84	4076PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90512
	220	88	0.080	480	30	10	0.8	4077PHBK-ND	1.39	11.90	93.25	—	381.18	592.24	558.88/M	515.33/M	2222 021 18221
	330	129	0.080	530	30	12.5	0.8	4078PHBK-ND	1.53	13.11	102.67	—	419.70	652.09	615.36/M	567.41/M	2222 021 18331
	470	182	0.080	630	30	12.5	0.8	4079PHBK-ND	1.59	13.62	106.67	—	436.03	677.46	639.30/M	589.48/M	2222 021 18471
	680	261	0.080	830	30	15	0.8	4080PHBK-ND	1.88	16.15	126.48	—	517.01	803.28	758.03/M	698.96/M	2222 021 18681
	1000	382	0.080	1120	30	18	0.8	4081PHBK-ND	2.33	20.01	156.77	—	640.84	995.67	939.58/M	866.37/M	2222 021 18102
	1500	571	0.110	1350	38	18	0.8	4082PHBK-ND	3.04	26.05	204.07	—	834.22	1296.11	1223.10/M	1127.80/M	2222 021 18152
	2200	836	0.130	1780	38	21	0.8	4083PHBK-ND	4.03	34.50	270.25	—	1104.73	1716.41	1619.72/M	1493.51/M	2222 021 18222
100	1.0	4.6	0.080	14	10	4.5	0.6	4084PHCT-ND	.46	3.91	30.62	4084PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 39108
	2.2	5.3	0.080	20	10	4.5	0.6	4085PHCT-ND	.46	3.91	30.62	4085PHTB-ND	—	194.48	183.53/M	169.23/M	2222 021 39228
	4.7	7.0	0.080	30	10	4.5	0.6	4086PHCT-ND	.50	4.30	33.70	4086PHTB-ND	—	214.03	201.98/M	186.24/M	2222 021 39478
	10	10	0.080	65	10	6.0	0.6	4087PHCT-ND	.53	4.54	35.56	4087PHTB-ND	—	225.82	213.10/M	196.50/M	2222 021 39109
	15	13	0.080	77	11	8.0	0.6	4088PHCT-ND	.70	6.04	47.31	4088PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90548
	15	13	0.080	85	18	6.5	0.8	4089PHCT-ND	.70	6.04	47.31	4089PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 39159
	22	17	0.080	95	11	8.0	0.6	4090PHCT-ND	.70	6.04	47.31	4090PHTB-ND	193.38	300.45	283.52/M	261.43/M	2222 021 90552
	22	17	0.080	100	18	6.5	0.8	4091PHCT-ND	.70	6.04	47.31	4091PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 39229
	33	24	0.080	120	18	6.5	0.8	4092PHCT-ND	.70	6.04	47.31	4092PHTB-ND	—	300.45	283.52/M	261.43/M	2222 021 39339
	47	32	0.080	160	18	8.0	0.8	4093PHCT-ND	.81	6.91	54.12	4093PHTB-ND	221.23	343.73	324.37/M	299.10/M	2222 021 39479
	68	45	0.080	220	18	10	0.8	4094PHCT-ND	.93	7.94	62.16	4094PHTB-ND	254.09	394.77	372.54/M	343.51/M	2222 021 39689
	100	64	0.080	300	25	10	0.8	4095PHCT-ND	1.17	10.07	78.84	4095PHTB-ND	322.29	500.74	472.54/M	435.72/M	2222 021 90532
	100	64	0.070	360	30	10	0.8	4096PHBK-ND	1.42	12.17	95.29	—	389.54	605.22	571.13/M	526.63/M	2222 021 19101
	220	136	0.080	460	30	12.5	0.8	4098PHBK-ND	1.63	14.00	109.63	—	448.14	696.27	657.05/M	605.85/M	2222 021 19221
	330	202	0.090	580	30	15	0.8	4099PHBK-ND	2.01	17.21	134.82	—	551.12	856.26	808.03/M	745.07/M	2222 021 19331
	470	286	0.090	740	30	18	0.8	4100PHBK-ND	2.49	21.35	167.27	—	683.78	1062.38	1002.54/M	924.42/M	2222 021 19471
	1000	604	0.100	1260	38	21	0.8	4102PHBK-ND	4.31	36.95	289.43	—	1183.12	1838.20	1734.65/M	1599.48/M	2222 021 19102

* "CT" stands for Cut Tape; "TB" stands for Tape and Box; "BK" stands for Bulk. ◊ ***RoHS Compliant***

COMPONENTS

AHT 118 Axial High Temperature Electrolytic Capacitors

FEATURES:

- Polarized aluminum electrolytic capacitors, non-solid
- Axial leads, cylindrical aluminum case, insulated with a blue sleeve
- Case Ø10mm x 30mm to 21mm x 40 mm with pressure relief
- Taped versions up to case Ø15mm x 30 mm available for automatic insertion
- Charge and discharge proof
- Extra long useful life: 4,000 hours at 125°C, high reliability
- Extended temperature range: 125°C (usable up to 150°C)
- Miniaturized, high CV-product per unit volume

APPLICATIONS:

- Automotive, industrial and telecommunication
- Smoothing, filtering, coupling, decoupling, timing
- For use after very long storage (10 years) without voltage applied
- Portable and mobile equipment (small size, low mass)
- Low mounting height boards, vibration and shock resistant
- Outdoor applications, e.g. aerial amplifiers

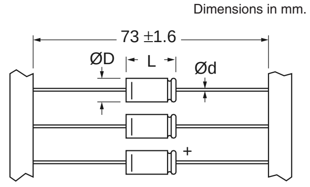

Case size 10mm x 30mm and above are bulk
Form BA: Taped in box (ammopack)
Case ØD x L = 6.5mm x 18mm to 10mm x 25mm

DESCRIPTION	VALUE	
Case sizes ($ØD_{nom}$ x L_{nom} in mm)	6.5 x 18 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C_R	1 to 10,000 µF	
Tolerance on C_R	±20%	
Rated voltage range, U_R	6.3 to 200V	
Category temperature range	-40°C ~ 125°C	-55°C ~ 125°C
Endurance test at 150°C, with no I_R applied	500 hours	1,000 hours
Endurance test at 125°C	2,000 hours	3,000 hours
Useful life at 125°C	4,000 hours	4,000 hours
Useful life at 40°C, 1.8 x I_R applied	500,000 hours	500,000 hours
Shelf life at 0 V, 125°C U_R = 6.3 to 63V U_R = 100 and 200 V	500 hours 100 hours	
Based on sectional specification	IEC 384-4/CECC 30300, LL grade	
Climatic category IEC 68 (DIN 40040)	40/125/56 (GKD)	55/125/56 (FKD)

WV (VDC)	Cap. (µF)	Leakage Curr. (µA)	tan δ	Ripple Curr. (mA)	Dimensions (mm) L	D	d	Digi-Key Part No.	Pricing* 1	10	100	Digi-Key Part No.	Pricing* 500	1,000	5,000	10,000	BC Components Part No.
6.3	1000	42	0.500	251	18	10	0.8	4103PHCT-ND	1.98	16.97	132.96	4103PHTB-ND	543.53	844.47	796.91/M	734.81/M	2222 118 33102
	1500	61	0.500	352	25	10	0.8	4104PHCT-ND	2.07	17.76	139.14	4104PHTB-ND	568.79	883.73	833.95/M	768.96/M	2222 118 90503
10	220	20	0.350	109	18	6.5	0.8	4105PHCT-ND	1.84	15.79	123.68	4105PHTB-ND	—	785.52	741.27/M	683.51/M	2222 118 34221
	330	24	0.350	150	18	8.0	0.8	4106PHCT-ND	1.89	16.19	126.78	4106PHTB-ND	518.26	805.22	759.86/M	700.65/M	2222 118 34331
	470	32	0.350	179	18	8.0	0.8	4107PHCT-ND	1.89	16.19	126.78	4107PHTB-ND	518.26	805.22	759.86/M	700.65/M	2222 118 34471
	1000	64	0.350	343	25	10	0.8	4108PHCT-ND	1.98	16.98	133.01	4108PHTB-ND	568.79	883.73	833.95/M	768.96/M	2222 118 90505
	1500	94	0.320	590	30	12.5	0.8	4110PHBK-ND	2.34	20.09	157.38	—	643.34	999.55	943.24/M	869.74/M	2222 118 14152
	2200	136	0.400	634	30	12.5	0.8	4111PHBK-ND	2.75	23.57	184.59	—	754.58	1172.38	1106.34/M	1020.13/M	2222 118 14222
	4700	286	0.460	1035	30	18	0.8	4113PHBK-ND	4.20	36.00	282.00	—	1152.76	1791.04	1690.14/M	1558.44/M	2222 118 14472
	6800	412	0.530	1395	38	18	0.8	4114PHBK-ND	5.43	46.58	364.86	—	1491.48	2317.30	2186.76/M	2016.37/M	2222 118 14682
	10000	604	0.530	1674	38	21	0.8	4115PHBK-ND	7.28	62.37	488.54	—	1997.06	3102.82	2928.03/M	2699.87/M	2222 118 14103
16	220	25	0.250	145	18	8.0	0.8	4116PHCT-ND	1.89	16.19	126.78	—	—	—	—	—	2222 118 35221
	330	36	0.250	204	18	10	0.8	4117PHCT-ND	1.98	16.97	132.96	4117PHTB-ND	543.53	844.47	796.91/M	734.81/M	2222 118 35331
	470	49	0.250	243	18	10	0.8	4118PHCT-ND	1.98	16.97	132.96	4118PHTB-ND	543.53	844.47	796.91/M	734.81/M	2222 118 35471
	680	69	0.220	389	30	10	0.8	4119PHBK-ND	2.06	17.69	138.53	—	566.29	879.85	830.29/M	765.59/M	2222 118 15681
	1000	100	0.220	557	30	12.5	0.8	4120PHBK-ND	2.33	20.01	156.77	—	640.84	995.67	939.58/M	866.37/M	2222 118 15102
	1500	148	0.290	609	30	12.5	0.8	4121PHBK-ND	2.75	23.60	184.90	—	755.83	1174.32	1108.17/M	1021.82/M	2222 118 15152
	2200	215	0.290	790	30	15	0.8	4122PHBK-ND	3.35	28.70	224.80	—	918.94	1427.75	1347.33/M	1242.34/M	2222 118 15222
	3300	321	0.340	1008	30	18	0.8	4123PHBK-ND	4.27	36.63	286.96	—	1173.03	1822.53	1719.86/M	1585.85/M	2222 118 15332
	4700	455	0.340	1363	38	18	0.8	4124PHBK-ND	5.43	46.58	364.86	—	1491.48	2317.30	2186.76/M	2016.37/M	2222 118 15472
	6800	657	0.380	1627	38	21	0.8	4125PHBK-ND	7.23	61.97	485.46	—	1984.48	3083.27	2909.58/M	2682.86/M	2222 118 15682
25	100	20	0.180	102	18	6.5	0.8	4126PHCT-ND	1.84	15.79	123.68	4126PHTB-ND	—	785.52	741.27/M	683.51/M	2222 118 36101
	220	37	0.180	196	18	10	0.8	4127PHCT-ND	1.98	16.97	132.96	4127PHTB-ND	543.53	844.47	796.91/M	734.81/M	2222 118 36221
	330	54	0.180	274	25	10	0.8	4128PHCT-ND	2.07	17.76	139.14	4128PHTB-ND	568.79	883.73	833.95/M	768.96/M	2222 118 36331
	470	75	0.180	327	25	10	0.8	4129PHCT-ND	2.07	17.76	139.14	4129PHTB-ND	568.79	883.73	833.95/M	768.96/M	2222 118 90509
	470	75	0.180	366	30	10	0.8	4130PHBK-ND	2.22	18.99	148.73	—	607.99	944.62	891.41/M	821.95/M	2222 118 16471
	1000	154	0.240	531	30	12.5	0.8	4132PHBK-ND	2.91	24.91	195.12	—	797.62	1239.25	1169.44/M	1078.32/M	2222 118 16102
	1500	229	0.250	691	30	15	0.8	4133PHBK-ND	3.56	30.51	239.02	—	977.06	1518.05	1432.54/M	1320.91/M	2222 118 16152
	2200	334	0.260	919	30	18	0.8	4134PHBK-ND	4.48	38.37	300.54	—	1228.56	1908.80	1801.27/M	1660.91/M	2222 118 16222
	3300	499	0.260	1280	38	18	0.8	4135PHBK-ND	5.89	50.53	395.79	—	1617.90	2513.72	2372.12/M	2187.28/M	2222 118 16332
	4700	709	0.280	1464	38	21	0.8	4136PHBK-ND	7.74	66.32	519.47	—	2123.48	3299.24	3113.38/M	2870.78/M	2222 118 16472
40	47	20	0.110	89.8	18	6.5	0.8	4137PHCT-ND	1.84	15.79	123.68	4137PHTB-ND	—	785.52	741.27/M	683.51/M	2222 118 37479
	100	28	0.110	147	18	8.0	0.8	4138PHCT-ND	1.89	16.19	126.78	4138PHTB-ND	518.26	805.22	759.86/M	700.65/M	2222 118 37101
	150	40	0.110	207	18	10	0.8	4139PHCT-ND	1.98	16.96	132.85	4139PHTB-ND	543.05	843.73	796.20/M	734.16/M	2222 118 37151
	220	57	0.100	338	30	10	0.8	4141PHBK-ND	2.18	18.67	146.26	—	597.90	928.95	876.62/M	808.32/M	2222 118 17221
	330	83	0.100	484	30	12.5	0.8	4142PHBK-ND	2.52	21.63	169.44	—	692.62	1076.11	1015.50/M	936.37/M	2222 118 17331
	470	117	0.110	522	30	12.5	0.8	4143PHBK-ND	2.85	24.44	191.41	—	782.44	1215.67	1147.19/M	1057.80/M	2222 118 17471
	1000	244	0.130	852	30	18	0.8	4145PHBK-ND	4.28	36.67	287.26	—	1174.28	1824.47	1721.69/M	1587.54/M	2222 118 17102
	2200	532	0.150	1403	38	21	0.8	4147PHBK-ND	7.51	64.34	504.00	—	2060.27	3201.03	3020.71/M	2785.33/M	2222 118 17222
63	1.0	20	0.070	16.4	18	6.5	0.8	4148PHCT-ND	1.84	15.79	123.68	4148PHTB-ND	—	785.52	741.27/M	683.51/M	2222 118 38108
	2.2	20	0.070	24.3	18	6.5	0.8	4149PHCT-ND	1.84	15.79	123.68	4149PHTB-ND	—	785.52	741.27/M	683.51/M	2222 118 38228
	4.7	20	0.070	35.6	18	6.5	0.8	4150PHCT-ND	1.84	15.79	123.68	4150PHTB-ND	—	785.52	741.27/M	683.51/M	2222 118 38478
	10	20	0.070	51.9	18	6.5	0.8	4151PHCT-ND	1.84	15.79	123.68	4151PHTB-ND	—	785.52	741.27/M	683.51/M	2222 118 38109
	22	20	0.070	77	18	6.5	0.8	4152PHCT-ND	1.84	15.79	123.68	4152PHTB-ND	—	785.52	741.27/M	683.51/M	2222 118 38229
	47	22	0.070	126	18	8.0	0.8	4153PHCT-ND	1.89	16.19	126.78	4153PHTB-ND	518.26	805.22	759.86/M	700.65/M	2222 118 38479
	100	42	0.070	243	25	10	0.8	4154PHCT-ND	2.07	17.76	139.14	4154PHTB-ND	568.79	883.73	833.95/M	768.96/M	2222 118 90514
	100	42	0.070	262	30	10	0.8	4155PHBK-ND	2.18	18.67	146.26	—	597.90	928.95	876.62/M	808.32/M	2222 118 18101
	150	61	0.070	415	30	12.5	0.8	4156PHBK-ND	2.49	21.35	167.27	—	683.78	1062.38	1002.54/M	924.42/M	2222 118 18151
	220	87	0.080	454	30	12.5	0.8	4157PHBK-ND	2.93	25.10	196.65	—	803.86	1248.95	1178.59/M	1086.76/M	2222 118 18221
	330	129	0.090	544	30	15	0.8	4158PHBK-ND	3.62	30.99	242.73	—	992.24	1541.63	1454.79/M	1341.43/M	2222 118 18331
	470	182	0.090	695	30	18	0.8	4159PHBK-ND	4.58	39.27	307.62	—	1257.47	1953.72	1843.67/M	1700.00/M	2222 118 18471
	680	261	0.090	971	38	18	0.8	4160PHBK-ND	5.80	49.74	389.61	—	1592.64	2474.47	2335.07/M	2153.12/M	2222 118 18681
	1000	383	0.100	1161	38	21	0.8	4161PHBK-ND	7.78	66.71	522.57	—	2136.16	3318.94	3131.97/M	2887.92/M	2222 118 18102
100	4.7	20	0.070	36	18	6.5	0.8	4162PHCT-ND	1.63	14.01	109.75	—	—	—	—	—	2222 118 39478
	10	20	0.070	52	18	6.5	0.8	4163PHCT-ND	1.84	15.79	123.68	4163PHTB-ND	—	785.52	741.27/M	683.51/M	2222 118 39109
	22	20	0.070	91	18	8.0	0.8	4164PHCT-ND	1.89	16.19	126.78	4164PHTB-ND	518.26	805.22	759.86/M	700.65/M	2222 118 39229
	33	24	0.070	140	25	10	0.8	4165PHCT-ND	2.07	17.76	139.14	4165PHTB-ND	568.79	883.73	833.95/M	768.96/M	2222 118 39339
	47	33	0.070	170	25	10	0.8	4166PHCT-ND	2.07	17.76	139.14	4166PHTB-ND	568.79	883.73	833.95/M	768.96/M	2222 118 90536
	47	33	0.080	178	30	10	0.8	4167PHBK-ND	2.31	19.78	154.91	—	633.25	983.88	928.45/M	856.11/M	2222 118 19479
	100	64	0.090	303	30	12.5	0.8	4169PHBK-ND	2.98	25.58	200.36	—	819.04	1272.53	1200.85/M	1107.28/M	2222 118 19101
	220	136	0.100	481	30	18	0.8	4171PHBK-ND	4.52	38.72	303.34	—	1239.99	1926.56	1818.03/M	1676.37/M	2222 118 19221
	470	286	0.100	833	38	21	0.8	4173PHBK-ND	7.74	66.32	519.47	—	2123.48	3299.24	3113.38/M	2870.78/M	2222 118 19471
200	2.2	20	0.060	27	18	6.5	0.8	4174PHCT-ND	1.84	15.79	123.68	—	—	—	—	—	2222 118 90538
	10	20	0.060	85	25	10	0.8	4176PHCT-ND	2.07	17.76	139.14	4176PHTB-ND	568.79	883.73	833.95/M	768.96/M	2222 118 90543
	15	22	0.046	129	30	10	0.8	4177PHBK-ND	2.15	18.44	144.41	—	590.31	917.16	865.50/M	798.06/M	2222 118 92159
	22	31	0.046	198	30	12.5	0.8	4178PHBK-ND	2.52	21.59	169.13	—	691.37	1074.17	1013.67/M	934.68/M	2222 118 92229
	33	44	0.046	242	30	15	0.8	4179PHBK-ND	3.10	26.57	208.09	—	850.64	1321.64	1247.19/M	1150.00/M	2222 118 92339
	47	61	0.046	317	30	18	0.8	4180PHBK-ND	3.83	32.84	257.25	—	1051.61	1633.87	1541.83/M	1421.69/M	2222 118 92479
	100	124	0.046	551	38	21	0.8	4182PHBK-ND	6.63	56.84	445.25	—	1820.12	2827.90	2668.59/M	2460.65/M	2222 118 92101

* "CT" stands for Cut Tape; "TB" stands for Tape and Box; "BK" stands for Bulk.

AML 138 Axial Miniature Long-Life Electrolytic Capacitors

FEATURES:

- Polarized aluminum electrolytic capacitors, non-solid • Axial leads, cylindrical aluminum case, insulated with a blue sleeve (case Ø6.3mm x 12.7mm and 7.7mm x 12.7 mm are molded with flame retardant plastic material) • Case Ø10mm x 30mm to 21mm x 40mm with pressure relief • Taped versions up to case Ø15mm x 30 mm available for automatic insertion • Charge and discharge proof
- Long useful life: 2,000 to 10,000 hours at 105°C, high reliability
- High ripple current capability • Miniaturized, high CV-product per unit volume

APPLICATIONS:

- Industrial, automotive, EDP and telecommunication • Smoothing, filtering, buffering in SMPS; coupling, decoupling, timing • Portable and mobile equipment (small size, low mass) • Standby applications
- Low mounting height boards • Vibration and shock resistant

Dimension in mm.

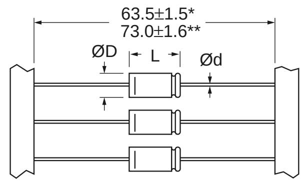

Case size 10mm x 30mm and above are bulk
Form BA: Taped in box (ammopack)
*Case ØD x L = 6.3mm x 12.7mm and 7.7mm x 12.7 mm
**Case ØD x L = 6.5mm x 18mm and 10mm x 25 mm

DESCRIPTION	VALUE	
Case sizes (ØD$_{nom}$ x L$_{nom}$ in mm)	6.3 x 12.7 to 10 x 25	10 x 30 to 21 x 40
Rated capacitance range, C$_R$	1.0 to 15,000 µF	
Tolerance on C$_R$	±20%	
Rated voltage range, U$_R$	6.3 to 100V	
Category temperature range	-40°C ~ 105°C	
Endurance test at 105°C	1,000 hours	5,000 hours
Useful life at 105°C	2,000 hours	10,000 hours
Useful life at 40°C, I$_R$ applied	1.3 x I$_R$ applied: 200,000 hours	1.8 x I$_R$ applied: 500,000 hours
Shelf life at 0 V, 105°C	500 hours	
Based on sectional specification	IEC 384-4/CECC 30300	
Climatic category IEC 68 (DIN 40040)	40/105/56 (GMF)	

WV (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ	Ripple Current (mA)	Dimensions (mm) L	D	d	Digi-Key Part No.	Pricing* 1	10	100	Digi-Key Part No.	Tape and Box Pricing 500	1,000	BC Components Part No.
6.3	100	16	0.240	99	12.7	6.3	0.6	4183PHCT-ND	1.34	11.45	89.68	4183PHTB-ND	—	569.55	2222 138 33101
	220	31	0.240	160	12.7	7.7	0.6	4184PHCT-ND	1.47	12.63	98.96	4184PHTB-ND	404.52	628.50	2222 138 33221
	470	22	0.240	250	18	6.5	0.8	4185PHCT-ND	1.15	9.87	77.29	4185PHTB-ND	—	490.89	2222 138 33471
	1000	42	0.240	430	18	10	0.8	4186PHCT-ND	1.57	13.42	105.14	4186PHTB-ND	429.79	667.76	2222 138 33102
	2200	87	0.290	640	25	10	0.8	4187PHCT-ND	1.89	16.19	126.78	4187PHTB-ND	518.26	805.22	2222 138 33222
10	150	33	0.200	140	12.7	7.7	0.6	4188PHCT-ND	1.47	12.63	98.96	4188PHTB-ND	404.52	628.50	2222 138 34151
	220	17	0.200	190	18	6.5	0.8	4189PHCT-ND	1.15	9.87	77.29	4189PHTB-ND	—	490.89	2222 138 34221
	470	32	0.200	300	18	8.0	0.8	4190PHCT-ND	1.24	10.66	83.50	4190PHTB-ND	341.31	530.30	2222 138 34471
	1000	64	0.200	520	25	10	0.8	4191PHCT-ND	1.89	16.19	126.78	4191PHTB-ND	518.26	805.22	2222 138 34102
	1500	94	0.260	560	30	10	0.8	4192PHBK-ND	1.58	13.54	106.06	—	433.53	673.58	2222 138 14152
	2200	140	0.270	750	30	12.5	0.8	4193PHBK-ND	1.83	15.67	122.76	—	501.84	779.70	2222 138 14222
	3300	200	0.280	990	30	15	0.8	4194PHBK-ND	2.22	18.99	148.73	—	607.99	944.62	2222 138 14332
	4700	290	0.310	1200	30	18	0.8	4195PHBK-ND	2.71	23.25	182.13	—	744.49	1156.71	2222 138 14472
	6800	410	0.320	1700	38	18	0.8	4196PHBK-ND	3.45	29.60	231.90	—	947.95	1472.83	2222 138 14682
	10000	600	0.370	1900	38	18	0.8	4197PHBK-ND	4.59	39.32	307.97	—	1258.91	1955.96	2222 138 14103
16	22	10	0.120	58	12.7	6.3	0.6	4199PHCT-ND	1.34	11.45	89.68	4199PHTB-ND	—	569.55	2222 138 35229
	47	18	0.160	83	12.7	6.3	0.6	4200PHCT-ND	1.34	11.45	89.68	4200PHTB-ND	—	569.55	2222 138 35479
	100	35	0.160	130	12.7	7.7	0.6	4201PHCT-ND	1.47	12.63	98.96	4201PHTB-ND	404.52	628.50	2222 138 35101
	220	25	0.160	230	18	8.0	0.8	4202PHCT-ND	1.24	10.66	83.50	4202PHTB-ND	341.31	530.30	2222 138 35221
	470	49	0.160	360	18	10	0.8	4203PHCT-ND	1.57	13.42	105.14	4203PHTB-ND	429.79	667.76	2222 138 35471
	1000	100	0.190	530	30	10	0.8	4204PHBK-ND	1.58	13.50	105.75	—	432.29	671.64	2222 138 15102
	2200	210	0.210	950	30	15	0.8	4206PHBK-ND	2.17	18.63	145.96	—	596.65	927.01	2222 138 15222
	3300	320	0.230	1200	30	18	0.8	4207PHBK-ND	2.72	23.33	182.74	—	746.99	1160.59	2222 138 15332
	4700	450	0.280	1400	30	18	0.8	4208PHBK-ND	3.49	29.88	234.06	—	956.79	1486.56	2222 138 15472
	6800	660	0.280	1800	38	18	0.8	4209PHBK-ND	4.47	38.29	299.93	—	1226.06	1904.92	2222 138 15682
	10000	960	0.350	2100	38	21	0.8	4210PHBK-ND	6.08	52.10	408.15	—	1668.43	2592.23	2222 138 15103
25	10	8.0	0.090	46	12.7	6.3	0.6	4211PHCT-ND	1.34	11.45	89.68	4211PHTB-ND	—	569.55	2222 138 36109
	22	14	0.140	61	12.7	6.3	0.6	4212PHCT-ND	1.34	11.45	89.68	4212PHTB-ND	—	569.55	2222 138 36229
	33	20	0.140	74	12.7	6.3	0.6	4213PHCT-ND	1.34	11.45	89.68	4213PHTB-ND	—	569.55	2222 138 36339
	47	27	0.140	96	12.7	7.7	0.6	4214PHCT-ND	1.47	12.63	98.96	4214PHTB-ND	404.52	628.50	2222 138 36479
	100	19	0.130	160	18	6.5	0.8	4215PHCT-ND	1.15	9.87	77.29	4215PHTB-ND	—	490.89	2222 138 36101
	220	37	0.130	270	18	10	0.8	4216PHCT-ND	1.57	13.42	105.14	4216PHTB-ND	429.79	667.76	2222 138 36221
	470	75	0.130	440	25	10	0.8	4217PHCT-ND	1.89	16.19	126.78	4217PHTB-ND	518.26	805.22	2222 138 36471
	680	110	0.140	500	30	10	0.8	4218PHBK-ND	1.55	13.30	104.20	—	425.95	661.79	2222 138 16681
	1000	150	0.140	670	30	12.5	0.8	4219PHBK-ND	1.80	15.40	120.60	—	493.00	765.97	2222 138 16102
	1500	230	0.150	890	30	15	0.8	4220PHBK-ND	2.18	18.71	146.57	—	599.15	930.89	2222 138 16152
	2200	330	0.160	1200	30	18	0.8	4221PHBK-ND	2.72	23.33	182.74	—	746.99	1160.59	2222 138 16222
	3300	500	0.170	1600	38	18	0.8	4222PHBK-ND	3.56	30.55	239.32	—	978.31	1519.99	2222 138 16332
	4700	710	0.200	1800	38	18	0.8	4223PHBK-ND	4.65	39.87	312.29	—	1276.59	1983.42	2222 138 16472
	6800	1000	0.260	2100	38	21	0.8	4224PHBK-ND	6.26	53.69	420.53	—	1719.06	2670.88	2222 138 16682
40	33	29	0.110	91	12.7	7.7	0.6	4225PHCT-ND	1.47	12.63	98.96	4225PHTB-ND	404.52	628.50	2222 138 37339
	47	15	0.100	120	18	6.5	0.8	4226PHCT-ND	1.15	9.87	77.29	4226PHTB-ND	—	490.89	2222 138 37479
	100	28	0.100	180	18	8.0	0.8	4227PHCT-ND	1.24	10.66	83.50	4227PHTB-ND	341.31	530.30	2222 138 37101
	220	57	0.100	350	25	10	0.8	4228PHCT-ND	1.89	16.19	126.78	4228PHTB-ND	518.26	805.22	2222 138 37221
	330	83	0.100	410	30	10	0.8	4229PHBK-ND	1.50	12.83	100.49	—	410.77	638.21	2222 138 17331
	470	120	0.100	550	30	12.5	0.8	4230PHBK-ND	1.67	14.29	111.93	—	457.55	710.89	2222 138 17471
	680	170	0.110	650	30	12.5	0.8	4231PHBK-ND	1.93	16.50	129.25	—	528.35	820.89	2222 138 17681
	1000	240	0.110	840	30	15	0.8	4232PHBK-ND	2.31	19.82	155.22	—	634.50	985.82	2222 138 17102
	2200	530	0.130	1500	38	18	0.8	4234PHBK-ND	3.78	32.41	253.87	—	1037.77	1612.38	2222 138 17222
	3300	800	0.150	1700	38	21	0.8	4235PHBK-ND	5.11	43.82	343.22	—	1403.01	2179.84	2222 138 17332
50	10	13	0.090	51	12.7	6.3	0.6	4236PHCT-ND	1.34	11.45	89.68	4236PHTB-ND	—	569.55	2222 138 31109
	22	25	0.090	82	12.7	7.7	0.6	4237PHCT-ND	1.47	12.63	98.96	4237PHTB-ND	404.52	628.50	2222 138 31229
	100	34	0.080	230	18	10	0.8	4238PHCT-ND	1.57	13.42	105.14	4238PHTB-ND	429.79	667.76	2222 138 31101
63	4.7	9.0	0.090	35	12.7	6.3	0.6	4239PHCT-ND	1.34	11.45	89.68	4239PHTB-ND	—	569.55	2222 138 38478
	10	16	0.080	59	12.7	7.7	0.6	4240PHCT-ND	1.47	12.63	98.96	4240PHTB-ND	404.52	628.50	2222 138 38109
	22	12	0.070	100	18	6.5	0.8	4241PHCT-ND	1.15	9.87	77.29	4241PHTB-ND	—	490.89	2222 138 38229
	47	22	0.070	150	18	8.0	0.8	4242PHCT-ND	1.24	10.66	83.50	4242PHTB-ND	341.31	530.30	2222 138 38479
	100	42	0.070	280	25	10	0.8	4243PHCT-ND	1.89	16.19	126.78	4243PHTB-ND	518.26	805.22	2222 138 38101
	150	61	0.110	340	30	10	0.8	4244PHBK-ND	1.47	12.59	98.63	—	403.18	626.41	2222 138 18151
	220	88	0.110	470	30	12.5	0.8	4245PHBK-ND	1.64	14.09	110.38	—	451.21	701.04	2222 138 18221
	330	130	0.120	570	30	12.5	0.8	4246PHBK-ND	1.92	16.46	128.94	—	527.10	818.95	2222 138 18331
	470	180	0.120	730	30	15	0.8	4247PHBK-ND	2.27	19.46	152.44	—	623.16	968.20	2222 138 18471
	1000	380	0.120	1300	38	18	0.8	4249PHBK-ND	3.60	30.87	241.79	—	988.40	1535.66	2222 138 18102
	1500	570	0.130	1600	38	21	0.8	4250PHBK-ND	4.84	41.45	324.68	—	1327.21	2062.08	2222 138 18152
100	1.0	5.0	0.090	16	12.7	6.3	0.6	4251PHCT-ND	1.34	11.45	89.68	4251PHTB-ND	—	569.55	2222 138 39108
	2.2	7.0	0.090	24	12.7	6.3	0.6	4252PHCT-ND	1.34	11.45	89.68	4252PHTB-ND	—	569.55	2222 138 39228
	4.7	12	0.080	40	12.7	7.7	0.6	4253PHCT-ND	1.47	12.63	98.96	4253PHTB-ND	404.52	628.50	2222 138 39478
	10	10	0.070	67	18	6.5	0.8	4254PHCT-ND	1.15	9.87	77.29	4254PHTB-ND	—	490.89	2222 138 39109
	22	17	0.070	100	18	8.0	0.8	4255PHCT-ND	1.24	10.66	83.50	4255PHTB-ND	341.31	530.30	2222 138 39229
	47	32	0.070	190	25	10	0.8	4256PHCT-ND	1.89	16.19	126.78	4256PHTB-ND	518.26	805.22	2222 138 39479
	68	45	0.070	220	30	10	0.8	4257PHBK-ND	1.56	13.34	104.50	—	427.19	663.73	2222 138 19689
	100	64	0.070	290	30	12.5	0.8	4258PHBK-ND	1.74	14.92	116.89	—	477.82	742.38	2222 138 19101
	220	140	0.070	470	30	15	0.8	4260PHBK-ND	2.43	20.84	163.25	—	667.35	1036.86	2222 138 19221
	330	200	0.080	620	30	18	0.8	4261PHBK-ND	3.06	26.25	205.63	—	840.56	1305.96	2222 138 19331
	470	290	0.080	840	38	18	0.8	4262PHBK-ND	3.86	33.12	259.42	—	1060.44	1647.60	2222 138 19471

* "CT" stands for Cut Tape and "BK" stands for Bulk

Bi-Polar Series SU Capacitors

FEATURES:

- Ideal for circuits where polarity is not constant or reverse voltage is applied when switches are turned on or off.
- Life: 2000 hours at +85°C.

SPECIFICATIONS:

Operating Temperature Range: –40°C ~ 85°C.

Capacitance Tolerance: ±20% (120Hz, +20°C).

Leakage Current: I ≤ 0.03CV + 3(µA) after 5 minutes application of rated working voltage at +20°C.

Low Temperature Characteristics: Impedance ratio max. at 120Hz. Following specified values.

Working Voltage		6.3V	10V	16V	25V	35V	50V
Impedance	-25°C/+20°C	4	3	2	2	2	2
	-40°C/+20°C	8	6	4	4	4	3

ENDURANCE:

Test Conditions: Duration: 2000 hours. Ambient Temperature: +85°C. Applied Voltage: Rated DC working voltage to each polarity for 1000 hours.

Post Test Requirements: +20°C. Leakage Current: ≤Initial specified value. Capacitance Change: ±20% of initial measured value. tan δ: ≤150% of initial specified value.

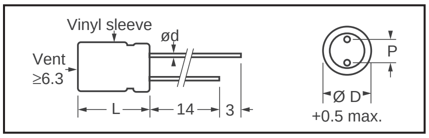

SHELF LIFE:

Test Conditions: Duration: 1000 hours. Ambient Temperature: 85°C. Applied Voltage: none

Post Test Requirements (+20°C): Same limits for "Endurance".

WV	Cap. (µF)	D.C.L. (+20°C/5min.) (µA) max.	tan δ (120Hz/+20°C) (max.)	Ripple Current (mA) rms	Dimensions				Digi-Key Part No.	Pricing						Panasonic Part No.
					D	L	P	d		1	10	100	1,000	5,000	10,000	
6.3	33	9.2	0.30	80	5	11	2.0	0.5	P1141-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A0JN330U
	47	11.8	0.30	90	5	11	2.0	0.5	P1142-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A0JN470U
	100	21.9	0.30	130	6.3	11.2	2.5	0.5	P1143-ND	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A0JN101U
	220	44.5	0.30	200	8	11.5	3.5	0.6	P1144-ND	.38	2.65	18.95	106.00	99.00/M	95.00/M	ECE-A0JN221U
	330	65.3	0.30	250	8	11.5	3.5	0.6	P1145-ND	.42	2.96	21.13	118.00	110.00/M	106.00/M	ECE-A0JN331U
	470	91.8	0.30	310	10	12.5	5.0	0.6	P1146-ND	.53	3.73	27.40	157.00	152.00/M	146.00/M	ECE-A0JN471X
	1000	192.0	0.30	430	10	20	5.0	0.6	P1147-ND	.80	5.60	41.10	236.00	227.00/M	219.00/M	ECE-A0JN102U
	2200	418.8	0.30	660	12.5	25	5.0	0.6	P1148-ND	1.11	7.87	59.02	349.00	336.00/M	328.00/M	ECE-A0JN222U
	3300	626.7	0.30	760	16	25	7.5	0.8	P1149-ND	1.42	10.05	75.40	446.00	429.00/M	419.00/M	ECE-A0JN332U
	4700	891.3	0.30	1170	16	31.5	7.5	0.8	P1150-ND	1.73	12.36	93.26	606.00	588.00/M	574.00/M	ECE-A0JN472U
	6800	1288.2	0.30	1450	18	35.5	7.5	0.8	P1151-ND	2.44	17.38	131.14	852.00	826.00/M	807.00/M	ECE-A0JN682U
10	22	9.6	0.25	60	5	11	2.0	0.5	P1152-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1AN220U
	33	12.9	0.25	80	5	11	2.0	0.5	P1153-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1AN330U
	47	17.1	0.25	90	5	11	2.0	0.5	P1154-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1AN470U
	100	33.0	0.25	130	6.3	11.2	2.5	0.5	P1155-ND	.84	6.27	46.06	265.00	255.00/M	245.00/M	ECE-A1AN101U
	100	33.0	0.25	130	6.3	11.2	2.5	0.5	P1370-ND	.51	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1AN101X
	220	69.0	0.25	200	8	11.5	3.5	0.6	P1156-ND	.42	2.96	21.13	118.00	110.00/M	106.00/M	ECE-A1AN221U
	330	102.0	0.25	280	10	16	5.0	0.6	P1157-ND	.53	3.73	27.40	157.00	152.00/M	146.00/M	ECE-A1AN331U
	470	144.0	0.25	340	10	16	5.0	0.6	P1158-ND	.66	4.66	34.24	197.00	189.00/M	182.00/M	ECE-N1AN471U
	1000	303.0	0.25	470	12.5	20	5.0	0.6	P1159-ND	.99	6.99	52.45	310.00	298.00/M	291.00/M	ECE-A1AN102X
	2200	663.0	0.25	690	16	25	7.5	0.8	P1160-ND	1.42	10.05	75.40	446.00	429.00/M	419.00/M	ECE-A1AN222U
	3300	993.0	0.25	1090	16	31.5	7.5	0.8	P1161-ND	1.73	12.36	93.26	606.00	588.00/M	574.00/M	ECE-A1AN332U
	4700	1413.0	0.25	1200	18	35.5	7.5	0.8	P1162-ND	2.44	17.38	131.14	852.00	826.00/M	807.00/M	ECE-A1AN472U
16	10	7.8	0.20	40	5	11	2.0	0.5	P1163-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1CN100U
	22	13.5	0.20	60	5	11	2.0	0.5	P1164-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1CN220U
	33	18.8	0.20	80	5	11	2.0	0.5	P1165-ND	.20	1.38	9.83	55.00	51.00/M	49.00/M	ECE-A1CN330U
	47	25.5	0.20	100	6.3	11.2	2.5	0.5	P1166-ND	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1CN470U
	100	51.0	0.20	180	8	11.5	3.5	0.6	P1167-ND	.43	2.96	21.13	118.00	110.00/M	106.00/M	ECE-A1CN101U
	220	108.6	0.20	260	10	12.5	5.0	0.6	P1168-ND	.53	3.73	27.40	157.00	152.00/M	146.00/M	ECE-A1CN221X
	330	161.4	0.20	330	10	16	5.0	0.6	P1169-ND	.66	4.66	34.24	197.00	189.00/M	182.00/M	ECE-A1CN331U
	470	228.6	0.20	380	10	20	5.0	0.6	P1170-ND	.74	5.25	39.35	233.00	224.00/M	219.00/M	ECE-A1CN471U
	1000	483.0	0.20	560	12.5	25	5.0	0.6	P1171-ND	1.23	8.74	65.57	388.00	373.00/M	364.00/M	ECE-A1CN102U
	2200	1059.0	0.20	750	16	31.5	7.5	0.8	P1172-ND	1.73	12.36	93.26	606.00	588.00/M	574.00/M	ECE-A1CN222U
	3300	1587.0	0.20	900	18	35.5	7.5	0.8	P1173-ND	2.44	17.38	131.14	852.00	826.00/M	807.00/M	ECE-A1CN332U
25	3.3	5.4	0.15	20	5	11	2.0	0.5	P1174-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1EN3R3U
	4.7	6.5	0.15	25	5	11	2.0	0.5	P1175-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1EN4R7U
	10	10.5	0.15	45	5	11	2.0	0.5	P1176-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1EN100U
	22	19.5	0.15	60	5	11	2.0	0.5	P1177-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1EN220X
	33	27.7	0.15	90	6.3	11.2	2.5	0.5	P1178-ND	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1EN330U
	47	38.2	0.15	110	6.3	11.2	2.5	0.5	P1179-ND	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1EN470U
	100	78.0	0.15	180	8	11.5	3.5	0.6	P1180-ND	.45	3.17	23.29	134.00	129.00/M	124.00/M	ECE-A1EN101U
	220	168.0	0.15	320	10	16	5.0	0.6	P1181-ND	.67	4.66	34.24	197.00	189.00/M	182.00/M	ECE-A1EN221U
	330	250.5	0.15	350	12.5	20	5.0	0.6	P1182-ND	.80	5.68	42.62	252.00	242.00/M	237.00/M	ECE-A1EN331U
	470	355.5	0.15	430	12.5	20	5.0	0.6	P1183-ND	.99	6.99	52.45	310.00	298.00/M	291.00/M	ECE-A1EN471U
	1000	753.0	0.15	680	16	25	7.5	0.8	P1184-ND	1.51	10.81	81.60	530.00	514.00/M	502.00/M	ECE-A1EN102U
	2200	1653.0	0.15	900	18	35.5	7.5	0.8	P1185-ND	2.44	17.38	131.14	852.00	826.00/M	807.00/M	ECE-A1EN222U
35	4.7	7.9	0.15	30	5	11	2.0	0.5	P1186-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1VN4R7U
	10	13.5	0.15	43	5	11	2.0	0.5	P1187-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1VN100U
	22	26.1	0.15	80	6.3	11.2	2.5	0.5	P1188-ND	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1VN220U
	33	37.6	0.15	100	8	11.5	3.5	0.6	P1189-ND	.42	2.96	21.13	118.00	110.00/M	106.00/M	ECE-A1VN330U
	47	52.3	0.15	120	8	11.5	3.5	0.6	P1190-ND	.45	3.17	23.29	134.00	129.00/M	124.00/M	ECE-A1VN470U
	100	108.0	0.15	230	10	16	5.0	0.6	P1191-ND	.67	4.66	34.24	197.00	189.00/M	182.00/M	ECE-A1VN101U
	220	234.0	0.15	360	12.5	20	5.0	0.6	P1192-ND	.80	5.68	42.62	252.00	242.00/M	237.00/M	ECE-A1VN221U
	330	349.5	0.15	450	12.5	20	5.0	0.6	P1193-ND	.99	6.99	52.45	310.00	298.00/M	291.00/M	ECE-A1VN331U
	470	496.5	0.15	590	12.5	25	5.0	0.6	P1194-ND	1.08	7.72	58.28	379.00	367.00/M	358.00/M	ECE-A1VN471U
50	0.47	3.7	0.15	10	5	11	2.0	0.5	P1195-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1HNR47U
	1	4.5	0.15	10	5	11	2.0	0.5	P1196-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1HN010U
	2.2	6.3	0.15	18	5	11	2.0	0.5	P1197-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1HN2R2U
	3.3	7.9	0.15	25	5	11	2.0	0.5	P1198-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1HN3R3U
	4.7	10.0	0.15	30	5	11	2.0	0.5	P1199-ND	.24	1.53	10.81	59.00	51.00/M	49.00/M	ECE-A1HN4R7U
	10	18.0	0.15	50	6.3	11.2	2.5	0.5	P1280-ND	.31	2.14	15.30	86.00	80.00/M	77.00/M	ECE-A1HN100U
	22	36.0	0.15	90	8	11.5	3.5	0.6	P1281-ND	.42	2.96	21.13	118.00	110.00/M	106.00/M	ECE-A1HN220U
	33	52.5	0.15	110	8	11.5	3.5	0.6	P1282-ND	.45	3.17	23.29	134.00	129.00/M	124.00/M	ECE-A1HN330U
	47	73.5	0.15	140	10	12.5	5.0	0.6	P1283-ND	.57	3.96	29.12	167.00	161.00/M	155.00/M	ECE-A1HN470U
	100	153.0	0.15	250	10	20	5.0	0.6	P1284-ND	.74	5.25	39.35	233.00	224.00/M	219.00/M	ECE-A1HN101U
	220	333.0	0.15	360	12.5	25	5.0	0.6	P1285-ND	1.11	7.87	59.02	349.00	336.00/M	328.00/M	ECE-A1HN221U
	330	498.0	0.15	450	16	25	7.5	0.8	P1286-ND	1.24	8.88	67.02	436.00	422.00/M	412.00/M	ECE-A1HN331U
	470	708.0	0.15	590	16	31.5	7.5	0.8	P1287-ND	1.73	12.36	93.26	606.00	588.00/M	574.00/M	ECE-A1HN471U

Panasonic® M Series Radial Lead Aluminum Electrolytic Capacitors

Ammo Box Packaging

PANASONIC M SERIES CROSS REFERENCES
Nichicon: VR; **Chemicon:** SMG;
Marcon: DSM; **Rubycon:** YK; **Elna:** RE3;
Nitsuko: MK; **Sanyo:** HC/HPC

FEATURES: • Miniaturized size version for general purpose use • Life: 2000 hours at 85°C • Vent construction for ≥Ø6.3 mm products

5-8 mm

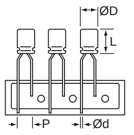

10, 12.5 mm

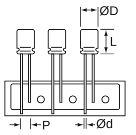

SPECIFICATIONS:

Operating Temperature Range	-40°C ~ 85°C	-25°C ~ 85°C
Rated Working Voltage Range	6.3 ~ 50 V DC	160 ~ 450 V DC
Nominal Capacitance Range	0.47 ~ 2200 µF	1 ~ 470 µF

Capacitance Tolerance: ±20% (120 Hz, 20°C)

Leakage Current	I≤ 0.03 CV or 4 (µA) after 1 minute I≤ 0.01 CV or 3 (µA) after 2 minutes Whichever is greater measured with rated working voltage at 20°C.	I≤ 0.06 CV + 10 (µA) after 2 minutes application of rated working voltage at 20°C.

tan δ: (at 120 Hz, 20°C)

W.V.	6.3	10	16	25	35	50
tan δ	0.28	0.24	0.20	0.16	0.14	0.12

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Low Temperature Characteristics: Impedance ratio at 120 Hz

W.V.	6.3	10	16	25	35	50
-25°C/20°C	5	4	3	2	2	2
-40°C/20°C	12	10	8	5	4	3

For capacitance value >1000 µF, add 0.5 per every 1000 µF for -25°C/20°C.
add 1.0 per every 1000 µF for -40°C/20°C.

Ripple Current: 120 Hz, 85°C

Frequency (Hz)	50/60	120	1k	10k
Correction Factor (Multiplier)	0.7	1	1.3	1.7

Endurance:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	2000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 150% initial specified value

Shelf Life:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 150% initial specified value

WV (VDC)	Cap (µF)	Leakage Current (µA)	tan δ Maximum	Ripple Current (mA) rms	Dimensions (mm) ØD	L	P	Ød	Digi-Key Part No.	Pricing 500	1,000	2,000	Panasonic Part No.
6.3	220	13.8	0.28	240	5	11	5.0	0.5	P10357TB-ND	—	—	27.00/M	ECA-0JM221B
	220	13.8	0.28	240	5	11	2.5	0.5	P10401TB-ND	—	—	27.00/M	ECA-0JM221I
	470	29.6	0.28	380	6.3	11.2	5.0	0.5	P10358TB-ND	—	—	39.00/M	ECA-0JM471B
	470	29.6	0.28	380	6.3	11.2	2.5	0.5	P10402TB-ND	—	—	39.00/M	ECA-0JM471I
	1000	63	0.28	580	8	11.5	5.0	0.6	P10359TB-ND	—	63.00	—	ECA-0JM102B
	1000	63	0.28	580	8	11.5	3.5	0.6	P10403TB-ND	—	63.00	—	ECA-0JM102BJ
	2200	138.6	0.3	890	10	16	5.0	0.6	P10360TB-ND	67.00	—	104.00/M	ECA-0JM222B
	3300	207.9	0.32	1020	10	20	5.0	0.6	P10361TB-ND	86.50	—	138.00/M	ECA-0JM332B
	4700	296.1	0.34	1170	12.5	20	5.0	0.6	P10362TB-ND	124.00	—	197.00/M	ECA-0JM472B
10	100	10	0.24	150	5	11	5.0	0.5	P10363TB-ND	—	—	27.00/M	ECA-1AM101B
	100	10	0.24	150	5	11	2.5	0.5	P10404TB-ND	—	—	27.00/M	ECA-1AM101I
	220	22	0.24	250	5	11	5.0	0.5	P10364TB-ND	—	—	42.00/M	ECA-1AM221B
	220	22	0.24	250	6.3	11.2	2.5	0.5	P10405TB-ND	—	—	42.00/M	ECA-1AM221I
	330	33	0.24	330	6.3	11.2	5.0	0.5	P10365TB-ND	—	—	39.00/M	ECA-1AM331B
	330	33	0.24	330	6.3	11.2	2.5	0.5	P10406TB-ND	—	—	39.00/M	ECA-1AM331I
	470	47	0.24	400	8	11.5	5.0	0.6	P10366TB-ND	—	63.00	—	ECA-1AM471B
	470	47	0.24	400	8	11.5	3.5	0.6	P10407TB-ND	—	63.00	—	ECA-1AM471BJ
	1000	100	0.24	630	10	12.5	5.0	0.6	P10367TB-ND	51.00	—	80.00/M	ECA-1AM102B
	2200	220	0.26	920	10	20	5.0	0.6	P10368TB-ND	86.50	—	138.00/M	ECA-1AM222B
16	100	16	0.2	180	5	11	5.0	0.5	P10369TB-ND	—	—	30.00/M	ECA-1CM101B
	100	16	0.2	180	5	11	2.5	0.5	P10408TB-ND	—	—	30.00/M	ECA-1CM101I
	220	35.2	0.2	280	6.3	11.2	5.0	0.5	P10370TB-ND	—	—	39.00/M	ECA-1CM221B
	220	35.2	0.2	280	6.3	11.2	2.5	0.5	P10409TB-ND	—	—	39.00/M	ECA-1CM221I
	330	52.8	0.3	350	8	11.5	5.0	0.6	P10371TB-ND	—	63.00	—	ECA-1CM331B
	330	52.8	0.3	350	8	11.5	3.5	0.6	P10410TB-ND	—	63.00	—	ECA-1CM331BJ
	470	75.2	0.2	440	8	11.5	5.0	0.6	P10372TB-ND	—	63.00	—	ECA-1CM471B
	470	75.2	0.2	440	8	11.5	3.5	0.6	P10411TB-ND	—	63.00	—	ECA-1CM471BJ
	1000	160	0.2	680	10	16	5.0	0.6	P10373TB-ND	67.00	—	104.00/M	ECA-1CM102B
	2200	352	0.22	1000	12.5	20	5.0	0.6	P10374TB-ND	124.00	—	197.00/M	ECA-1CM222B
25	47	11.7	0.16	130	5	11	5.0	0.5	P10375TB-ND	—	—	30.00/M	ECA-1EM470B
	47	11.7	0.16	130	5	11	2.5	0.5	P10412TB-ND	—	—	30.00/M	ECA-1EM470I
	100	25	0.16	180	6.3	11.2	5.0	0.5	P10376TB-ND	—	—	42.00/M	ECA-1EM101B
	100	25	0.16	180	6.3	11.2	2.5	0.5	P10413TB-ND	—	—	42.00/M	ECA-1EM101I
	220	55	0.16	310	8	11.5	5.0	0.6	P10377TB-ND	—	63.00	—	ECA-1EM221B
	220	55	0.16	310	8	11.5	3.5	0.6	P10414TB-ND	—	63.00	—	ECA-1EM221BJ
	330	82.5	0.16	390	8	11.5	5.0	0.6	P10378TB-ND	—	63.00	—	ECA-1EM331B
	330	82.5	0.16	390	8	11.5	3.5	0.6	P10415TB-ND	—	63.00	—	ECA-1EM331BJ
	470	117.5	0.16	480	10	12.5	5.0	0.6	P10379TB-ND	59.00	—	92.00/M	ECA-1EM471B
	1000	250	0.16	850	10	20	5.0	0.6	P10380TB-ND	93.00	—	148.00/M	ECA-1EM102B
35	33	11.5	0.14	110	5	11	5.0	0.5	P10381TB-ND	—	—	30.00/M	ECA-1VM330B
	33	11.5	0.14	110	5	11	2.5	0.5	P10416TB-ND	—	—	30.00/M	ECA-1VM330I
	47	16.4	0.14	130	5	11	5.0	0.5	P10382TB-ND	—	—	30.00/M	ECA-1VM470B
	47	16.4	0.14	130	5	11	2.5	0.5	P10417TB-ND	—	—	30.00/M	ECA-1VM470I
	100	35	0.14	210	6.3	11.2	5.0	0.5	P10383TB-ND	—	—	39.00/M	ECA-1VM101B
	100	35	0.14	210	6.3	11.2	2.5	0.5	P10418TB-ND	—	—	39.00/M	ECA-1VM101I
	220	77	0.14	350	8	11.5	5.0	0.6	P10384TB-ND	—	63.00	—	ECA-1VM221B
	220	77	0.14	350	8	11.5	3.5	0.6	P10419TB-ND	—	63.00	—	ECA-1VM221BJ
	330	115.5	0.14	440	10	12.5	5.0	0.6	P10385TB-ND	59.00	—	92.00/M	ECA-1VM331B
	470	164.5	0.14	550	10	16	5.0	0.6	P10386TB-ND	68.00	—	106.00/M	ECA-1VM471B
	1000	350	0.14	900	12.5	20	5.0	0.6	P10387TB-ND	136.50	—	216.00/M	ECA-1VM102B
50	0.47	3	0.12	5	5	11	5.0	0.5	P10388TB-ND	—	—	27.00/M	ECA-1HMR47B
	0.47	3	0.12	5	5	11	2.5	0.5	P10420TB-ND	—	—	27.00/M	ECA-1HMR47I
	1	3	0.12	10	5	11	5.0	0.5	P10389TB-ND	—	—	27.00/M	ECA-1HM010B
	1	3	0.12	10	5	11	2.5	0.5	P10421TB-ND	—	—	27.00/M	ECA-1HM010I
	2.2	3	0.12	20	5	11	5.0	0.5	P10390TB-ND	—	—	27.00/M	ECA-1HM2R2B
	2.2	3	0.12	20	5	11	2.5	0.5	P10422TB-ND	—	—	27.00/M	ECA-1HM2R2I
	3.3	3	0.12	35	5	11	5.0	0.5	P10391TB-ND	—	—	27.00/M	ECA-1HM3R3B
	3.3	3	0.12	35	5	11	2.5	0.5	P10423TB-ND	—	—	27.00/M	ECA-1HM3R3I
	4.7	3	0.12	45	5	11	5.0	0.5	P10392TB-ND	—	—	27.00/M	ECA-1HM4R7B
	4.7	3	0.12	45	5	11	2.5	0.5	P10424TB-ND	—	—	27.00/M	ECA-1HM4R7I
	10	5	0.12	65	5	11	5.0	0.5	P10393TB-ND	—	—	27.00/M	ECA-1HM100B
	10	5	0.12	65	5	11	2.5	0.5	P10425TB-ND	—	—	27.00/M	ECA-1HM100I
	22	11	0.12	100	5	11	5.0	0.5	P10394TB-ND	—	—	30.00/M	ECA-1HM220B
	22	11	0.12	100	5	11	2.5	0.5	P10426TB-ND	—	—	30.00/M	ECA-1HM220I
	33	16.5	0.12	110	5	11	5.0	0.5	P10395TB-ND	—	—	30.00/M	ECA-1HM330B
	33	16.5	0.12	110	5	11	2.5	0.5	P10427TB-ND	—	—	30.00/M	ECA-1HM330I
	47	23.5	0.12	130	6.3	11.2	5.0	0.5	P10396TB-ND	—	—	42.00/M	ECA-1HM470B
	47	23.5	0.12	130	6.3	11.2	2.5	0.5	P10428TB-ND	—	—	42.00/M	ECA-1HM470I
	100	50	0.12	250	8	11.5	5.0	0.6	P10397TB-ND	—	63.00	—	ECA-1HM101B
	100	50	0.12	250	8	11.5	3.5	0.6	P10429TB-ND	—	63.00	—	ECA-1HM101BJ
	220	11	0.12	400	10	12.5	5.0	0.6	P10398TB-ND	63.00	—	98.00/M	ECA-1HM221B
	330	165	0.12	500	10	16	5.0	0.6	P10399TB-ND	72.00	—	112.00/M	ECA-1HM331B
	470	235	0.12	650	10	20	5.0	0.6	P10400TB-ND	93.00	—	148.00/M	ECA-1HM471B

Panasonic M Series Radial Lead Aluminum Electrolytic Capacitors

PANASONIC M SERIES
CROSS REFERENCES
Nichicon: VR; **Chemicon:** SMG;
Marcon: DSM; **Rubycon:** YK;
Elna: RE3; **Nitsuko:** MK;
Sanyo: HC/HPC

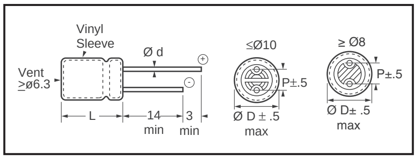

FEATURES:

- Miniaturized size version for general purpose use
- Life: 2000 hours at +85°C
- Vent construction for ≥ø6.3 mm products

SPECIFICATIONS:

Operating Temperature Range	-40°C ~ 85°C	-25°C ~ 85°C
Rated Working Voltage Range	6.3 ~ 100 V DC	160 ~ 450 V DC
Nominal Capacitance Range	0.33 ~ 22000 µF	1 ~ 470 µF

Capacitance Tolerance: ±20% (120 Hz, 20°C)

Leakage Current	I≤ 0.03 CV or 4 (µA) after 1 minute I≤ 0.01 CV or 3 (µA) after 2 minutes Whichever is greater measured with rated working voltage at 20°C.	I≤ 0.06 CV + 10 (µA) after 2 minutes application of rated working voltage at 20°C.

tan δ: (at 120 Hz, 20°C)

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
tan δ	0.28	0.24	0.20	0.16	0.14	0.12	0.11	0.10	0.16	0.18	0.20

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Low Temperature Characteristics: Impedance ratio at 120 Hz

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
-25°C/20°C	5	4	3	2	2	2	2	2	2	3	6
-40°C/20°C	12	10	8	5	4	3	3	3	—	—	—

For capacitance value >1000 µF, add 0.5 per every 1000 µF for -25°C/20°C.
add 1.0 per every 1000 µF for -40°C/20°C.

Ripple Current: 120 Hz, 85°C

Frequency (Hz)	50/60	120	1k	10k
Correction Factor (Multiplier)	0.7	1	1.3	1.7

Endurance:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	2000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 150% initial specified value

Shelf Life:

Test Conditions		**Post Test Requirements at 20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	85°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 150% initial specified value

WV (VDC)	**Cap. (µF)**	**Leakage Current (µA)**	**tan δ max.**	**Ripple Current (mA) rms**	**Dimensions (mm)**				**Digi-Key Part No.**	**Pricing**						**Panasonic Part No.**
					øD	**L**	**P**	**ød**		**1**	**10**	**100**	**500**	**1,000**	**5,000**	
6.3	100	6.3	0.28	130	5	11	2.0	0.5	P5111-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-0JM101
	220	13.8	0.28	240	5	11	2.0	0.5	P5112-ND	.16	.77	5.21	17.64	27.00	23.00/M	ECA-0JM221
	330	20.7	0.28	300	6.3	11.2	2.5	0.5	P5113-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-0JM331
	470	29.6	0.28	380	6.3	11.2	2.5	0.5	P5114-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-0JM471
	1000	63.0	0.28	580	8	11.5	3.5	0.6	P5115-ND	.25	1.48	10.58	38.07	59.00	55.00/M	ECA-0JM102
	2200	138.6	0.30	890	10	16	5.0	0.6	P5116-ND	.46	2.60	18.58	66.87	104.00	97.00/M	ECA-0JM222
	3300	207.9	0.32	1020	10	20	5.0	0.6	P5117-ND	.57	3.26	23.97	86.70	138.00	133.00/M	ECA-0JM332
	4700	296.1	0.34	1170	12.5	20	5.0	0.6	P5118-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-0JM472
	6800	428.4	0.38	1270	12.5	25	5.0	0.6	P5119-ND	.93	5.90	44.26	157.36	262.00	252.00/M	ECA-0JM682
	10000	630.0	0.46	1450	16	25	7.5	0.8	P5120-ND	1.30	7.43	55.73	198.16	329.00	317.00/M	ECA-0JM103
	15000	945.0	0.56	1700	16	31.5	7.5	0.8	P5121-ND	1.61	9.27	69.94	262.28	455.00	441.00/M	ECA-0JM153
	22000	1386.0	0.70	1900	18	35.5	7.5	0.8	P5122-ND	2.35	13.52	102.00	382.50	663.00	643.00/M	ECA-0JM223
10	100	10.0	0.24	150	5	11	2.0	0.5	P5123-ND	.16	.77	5.21	17.64	27.00	23.00/M	ECA-1AM101
	220	22.0	0.24	250	6.3	11.2	2.5	0.5	P5124-ND	.24	1.21	8.12	27.51	42.00	35.00/M	ECA-1AM221
	330	33.0	0.24	330	6.3	11.2	2.5	0.5	P5125-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1AM331
	470	47.0	0.24	400	8	11.5	3.5	0.6	P5126-ND	.32	1.65	11.63	40.19	63.00	55.00/M	ECA-1AM471
	1000	100.0	0.24	630	10	12.5	5.0	0.6	P5127-ND	.34	1.99	14.20	51.12	80.00	74.00/M	ECA-1AM102
	2200	220.0	0.26	920	10	20	5.0	0.6	P5128-ND	.57	3.26	23.97	86.70	138.00	133.00/M	ECA-1AM222
	3300	330.0	0.28	1090	12.5	20	5.0	0.6	P5129-ND	.74	4.66	34.24	123.85	197.00	189.00/M	ECA-1AM332
	4700	470.0	0.30	1200	12.5	25	5.0	0.6	P5130-ND	.94	5.90	44.26	157.36	262.00	252.00/M	ECA-1AM472
	6800	680.0	0.34	1400	16	25	7.5	0.8	P5131-ND	1.30	7.43	55.73	198.16	329.00	317.00/M	ECA-1AM682
	10000	1000.0	0.42	1600	16	31.5	7.5	0.8	P5132-ND	1.56	9.27	69.94	262.28	455.00	441.00/M	ECA-1AM103
	15000	1500.0	0.52	1850	18	35.5	7.5	0.8	P5133-ND	2.35	13.52	102.00	382.50	663.00	643.00/M	ECA-1AM153
16	10	3.0	0.20	30	5	11	2.0	0.5	P5134-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM100
	22	3.5	0.20	75	5	11	2.0	0.5	P5135-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM220
	33	5.2	0.20	110	5	11	2.0	0.5	P5136-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM330
	47	7.5	0.20	130	5	11	2.0	0.5	P5137-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1CM470
	100	16.0	0.20	180	5	11	2.0	0.5	P5138-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1CM101
	220	35.2	0.20	280	6.3	11.2	2.5	0.5	P5139-ND	.19	1.02	7.21	24.89	39.00	34.00/M	ECA-1CM221
	330	52.8	0.20	350	8	11.5	3.5	0.6	P5140-ND	.32	1.65	11.63	40.19	63.00	55.00/M	ECA-1CM331
	470	75.2	0.20	440	8	11.5	3.5	0.6	P5141-ND	.26	1.48	10.58	38.07	59.00	55.00/M	ECA-1CM471
	1000	160.0	0.20	680	10	16	5.0	0.6	P5142-ND	.40	2.60	18.58	66.87	104.00	97.00/M	ECA-1CM102
	2200	352.0	0.22	1000	12.5	20	5.0	0.6	P5143-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-1CM222
	3300	528.0	0.24	1200	12.5	25	5.0	0.6	P5144-ND	1.03	5.90	44.26	157.36	262.00	252.00/M	ECA-1CM332
	4700	752.0	0.26	1360	16	25	7.5	0.8	P5145-ND	1.30	7.43	55.73	198.16	329.00	317.00/M	ECA-1CM472
	6800	1088.0	0.30	1600	16	31.5	7.5	0.8	P5146-ND	1.58	9.27	69.94	262.28	455.00	441.00/M	ECA-1CM682
	10000	1600.0	0.38	1800	18	35.5	7.5	0.8	P5147-ND	2.35	13.52	102.00	382.50	663.00	643.00/M	ECA-1CM103
25	10	3.0	0.16	50	5	11	2.0	0.5	P5148-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1EM100
	22	5.5	0.16	90	5	11	2.0	0.5	P5149-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1EM220
	33	8.2	0.16	110	5	11	2.0	0.5	P5150-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1EM330
	47	11.7	0.16	130	5	11	2.0	0.5	P5151-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1EM470
	100	25.0	0.16	180	6.3	11.2	2.5	0.5	P5152-ND	.23	1.21	8.12	27.51	42.00	35.00/M	ECA-1EM101
	220	55.0	0.16	310	8	11.5	3.5	0.6	P5153-ND	.31	1.65	11.63	40.19	63.00	55.00/M	ECA-1EM221
	330	82.5	0.16	390	8	11.5	3.5	0.6	P5154-ND	.25	1.48	10.58	38.07	59.00	55.00/M	ECA-1EM331
	470	117.5	0.16	480	10	12.5	5.0	0.6	P5155-ND	.39	2.30	16.40	59.04	92.00	85.00/M	ECA-1EM471
	1000	250.0	0.16	850	10	20	5.0	0.6	P5156-ND	.58	3.50	25.69	92.91	148.00	142.00/M	ECA-1EM102
	2200	550.0	0.18	1200	12.5	25	5.0	0.6	P5157-ND	1.04	5.90	44.26	157.36	262.00	252.00/M	ECA-1EM222
	3300	825.0	0.20	1300	16	25	7.5	0.8	P5158-ND	1.35	8.31	62.30	221.52	368.00	354.00/M	ECA-1EM332
	4700	1175.0	0.22	1500	16	31.5	7.5	0.8	P5159-ND	1.72	10.04	75.78	284.18	493.00	477.00/M	ECA-1EM472
	6800	1700.0	0.26	1750	18	35.5	7.5	0.8	P5160-ND	2.55	14.67	110.74	415.28	720.00	698.00/M	ECA-1EM682

(Continued)

WV (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ max.	Ripple Current (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
					øD	L	P	ød		1	10	100	500	1,000	5,000	
35	10	3.5	0.14	60	5	11	2.0	0.5	P5161-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1VM100
	22	7.7	0.14	95	5	11	2.0	0.5	P5162-ND	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1VM220
	33	11.5	0.14	110	5	11	2.0	0.5	P5163-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1VM330
	47	16.4	0.14	130	5	11	2.0	0.5	P5164-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1VM470
	100	35.0	0.14	210	6.3	11.2	2.5	0.5	P5165-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1VM101
	220	77.0	0.14	350	8	11.5	3.5	0.6	P5166-ND	.26	1.48	10.58	38.07	59.00	55.00/M	ECA-1VM221
	330	115.5	0.14	440	10	12.5	5.0	0.6	P5167-ND	.36	2.30	16.40	59.04	92.00	85.00/M	ECA-1VM331
	470	164.5	0.14	550	10	16	5.0	0.6	P5168-ND	.43	2.65	18.95	68.22	106.00	99.00/M	ECA-1VM471
	1000	350.0	0.14	900	12.5	20	5.0	0.6	P5169-ND	.74	5.13	37.67	136.26	216.00	208.00/M	ECA-1VM102
	2200	770.0	0.16	1250	16	25	7.5	0.8	P5170-ND	1.26	8.31	62.30	221.52	368.00	354.00/M	ECA-1VM222
	3300	1155.0	0.18	1400	16	31.5	7.5	0.8	P5171-ND	1.48	10.04	75.78	284.18	493.00	477.00/M	ECA-1VM332
	4700	1645.0	0.20	1600	18	35.5	7.5	0.8	P5172-ND	2.42	14.67	110.74	415.28	720.00	698.00/M	ECA-1VM472
50	0.33	3.0	0.12	4.4	5	11	2.0	0.5	P5349-ND*	.21	1.33	8.99	30.45	46.00	39.00/M	ECA-1HMR33
	0.47	3.0	0.12	5	5	11	2.0	0.5	P5173-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HMR47
	1.0	3.0	0.12	10	5	11	2.0	0.5	P5174-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM010
	2.2	3.0	0.12	20	5	11	2.0	0.5	P5175-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM2R2
	3.3	3.0	0.12	35	5	11	2.0	0.5	P5176-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM3R3
	4.7	3.0	0.12	45	5	11	2.0	0.5	P5177-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM4R7
	10	5.0	0.12	65	5	11	2.0	0.5	P5178-ND*	.15	.77	5.21	17.64	27.00	23.00/M	ECA-1HM100
	22	11.0	0.12	100	5	11	2.0	0.5	P5179-ND*	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1HM220
	33	16.5	0.12	110	5	11	2.0	0.5	P5180-ND*	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1HM330
	47	23.5	0.12	130	6.3	11.2	2.5	0.5	P5181-ND*	.25	1.21	8.12	27.51	42.00	35.00/M	ECA-1HM470
	100	50.0	0.12	250	8	11.5	3.5	0.6	P5182-ND*	.29	1.65	11.63	40.19	63.00	55.00/M	ECA-1HM101
	220	110.0	0.12	400	10	12.5	5.0	0.6	P5183-ND*	.37	2.45	17.48	62.91	98.00	91.00/M	ECA-1HM221
	330	165.0	0.12	500	10	16	5.0	0.6	P5184-ND*	.43	2.56	18.82	68.09	108.00	104.00/M	ECA-1HM331
	470	235.0	0.12	650	10	20	5.0	0.6	P5185-ND*	.52	3.50	25.69	92.91	148.00	142.00/M	ECA-1HM471
	1000	500.0	0.12	1050	12.5	25	5.0	0.6	P5186-ND*	1.03	6.12	45.90	163.20	271.00	261.00/M	ECA-1HM102
	2200	1100.0	0.14	1300	16	31.5	7.5	0.8	P5187-ND*	1.85	10.81	81.60	306.00	530.00	514.00/M	ECA-1HM222
	3300	1650.0	0.16	1500	18	35.5	7.5	0.8	P5188-ND*	2.51	14.67	110.74	415.28	720.00	698.00/M	ECA-1HM332
63	10	6.3	0.11	70	5	11	2.0	0.5	P5189-ND	.17	.87	5.86	19.85	30.00	26.00/M	ECA-1JM100
	22	13.8	0.11	105	5	11	2.0	0.5	P5190-ND	.18	.87	5.86	19.85	30.00	26.00/M	ECA-1JM220
	33	20.7	0.11	130	6.3	11.2	2.5	0.5	P5191-ND	.19	1.02	7.21	24.89	39.00	34.00/M	ECA-1JM330
	47	29.6	0.11	160	6.3	11.2	2.5	0.5	P5192-ND	.21	1.11	7.81	26.98	43.00	37.00/M	ECA-1JM470
	100	63.0	0.11	270	8	11.5	3.5	0.6	P5193-ND	.31	1.79	12.75	45.90	71.00	66.00/M	ECA-1JM101
	220	138.6	0.11	450	10	16	5.0	0.6	P5194-ND	.45	2.56	18.82	68.09	108.00	104.00/M	ECA-1JM221
	330	207.9	0.11	550	10	20	5.0	0.6	P5195-ND	.63	3.64	26.72	96.65	153.00	148.00/M	ECA-1JM331
	470	296.1	0.11	750	12.5	20	5.0	0.6	P5196-ND	.92	5.25	39.35	139.92	233.00	224.00/M	ECA-1JM471
	1000	630.0	0.11	1100	16	25	7.5	0.8	P5197-ND	1.40	8.31	62.30	221.52	368.00	354.00/M	ECA-1JM102
	2200	1386.0	0.13	1400	18	35.5	7.5	0.8	P5198-ND	2.64	15.45	116.58	437.18	758.00	734.00/M	ECA-1JM222
100	0.47	3.0	0.10	10	5	11	2.0	0.5	P5199-ND	.18	.91	6.11	20.69	32.00	27.00/M	ECA-2AMR47
	1.0	3.0	0.10	20	5	11	2.0	0.5	P5305-ND	.18	.91	6.11	20.69	32.00	27.00/M	ECA-2AM010
	2.2	3.0	0.10	30	5	11	2.0	0.5	P5306-ND	.19	.91	6.11	20.69	32.00	27.00/M	ECA-2AM2R2
	3.3	3.3	0.10	40	5	11	2.0	0.5	P5307-ND	.19	.91	6.11	20.69	32.00	27.00/M	ECA-2AM3R3
	4.7	4.7	0.10	50	5	11	2.0	0.5	P5308-ND	.19	.91	6.11	20.69	32.00	27.00/M	ECA-2AM4R7
	10	10.0	0.10	70	5	11	2.0	0.5	P5309-ND	.19	.94	6.32	21.42	33.00	28.00/M	ECA-2AM100
	22	22.0	0.10	115	6.3	11.2	2.5	0.5	P5310-ND	.21	1.11	7.81	26.98	43.00	37.00/M	ECA-2AM220
	33	33.0	0.10	145	8	11.5	3.5	0.6	P5311-ND	.38	1.99	14.03	48.45	77.00	66.00/M	ECA-2AM330
	47	47.0	0.10	180	8	11.5	3.5	0.6	P5312-ND	.32	1.89	13.48	48.51	75.00	70.00/M	ECA-2AM470
	100	100.0	0.10	350	10	16	5.0	0.6	P5313-ND	.48	2.89	21.22	76.76	122.00	117.00/M	ECA-2AM101
	220	220.0	0.10	550	12.5	20	5.0	0.6	P5314-ND	.94	5.46	40.97	145.68	242.00	233.00/M	ECA-2AM221
	330	330.0	0.10	700	12.5	25	5.0	0.6	P5315-ND	1.21	6.99	52.45	186.48	310.00	298.00/M	ECA-2AM331
	470	470.0	0.10	900	16	25	7.5	0.8	P5316-ND	1.59	9.27	69.94	262.28	455.00	441.00/M	ECA-2AM471
	1000	1000.0	0.10	1300	18	35.5	7.5	0.8	P5317-ND	2.91	17.76	134.06	502.73	871.00	845.00/M	ECA-2AM102
160	1.0	19.6	0.16	36	6.3	11.2	2.5	0.5	P5318-ND	.32	1.37	9.63	33.25	53.00	46.00/M	ECA-2CM010
	2.2	31.1	0.16	53	6.3	11.2	2.5	0.5	P5319-ND	.33	1.37	9.63	33.25	53.00	46.00/M	ECA-2CM2R2
	3.3	41.6	0.16	66	6.3	11.2	2.5	0.5	P5320-ND	.29	1.23	8.75	31.50	49.00	46.00/M	ECA-2CM3R3
	4.7	55.1	0.16	78	6.3	11.2	2.5	0.5	P5321-ND	.31	1.23	8.75	31.50	49.00	46.00/M	ECA-2CM4R7
	10	103.0	0.16	105	10	12.5	5.0	0.6	P5322-ND	.42	2.30	16.40	59.04	92.00	85.00/M	ECA-2CM100
	22	221.0	0.16	175	10	16	5.0	0.6	P5323-ND	.51	2.56	18.82	68.09	108.00	104.00/M	ECA-2CM220
	33	326.0	0.16	235	10	20	5.0	0.6	P5324-ND	.68	3.03	22.25	80.50	128.00	123.00/M	ECA-2CM330
	47	461.0	0.16	320	12.5	20	5.0	0.6	P5325-ND	.99	4.81	36.07	128.24	213.00	205.00/M	ECA-2CM470
	100	970.0	0.16	515	12.5	25	5.0	0.6	P5326-ND	1.24	6.12	45.90	163.20	271.00	261.00/M	ECA-2CM101
	220	2122.0	0.16	830	16	31.5	7.5	0.8	P5327-ND	1.79	9.65	72.86	273.23	474.00	459.00/M	ECA-2CM221
	330	3178.0	0.16	1090	18	31.5	7.5	0.8	P5328-ND	3.07	18.53	139.88	524.55	909.00	881.00/M	ECA-2CM331
	470	4522.0	0.16	1440	18	40	7.5	0.8	P5329-ND	4.16	24.33	183.60	688.50	1193.00	1157.00/M	ECA-2CM471
250	1.0	25.0	0.18	34	6.3	11.2	2.5	0.5	P5330-ND	.29	1.23	8.75	31.50	49.00	46.00/M	ECA-2EM010
	2.2	43.0	0.18	50	6.3	11.2	2.5	0.5	P5331-ND	.29	1.23	8.75	31.50	49.00	46.00/M	ECA-2EM2R2
	3.3	59.5	0.18	72	8	11.5	3.5	0.6	P5332-ND	.36	1.79	12.75	45.90	71.00	66.00/M	ECA-2EM3R3
	4.7	80.5	0.18	86	8	11.5	3.5	0.6	P5333-ND	.41	1.79	12.75	45.90	71.00	66.00/M	ECA-2EM4R7
	10	160.0	0.18	110	10	16	5.0	0.6	P5334-ND	.51	2.56	18.82	68.09	108.00	104.00/M	ECA-2EM100
	22	340.0	0.18	180	10	20	5.0	0.6	P5335-ND	.81	3.36	24.65	89.17	142.00	136.00/M	ECA-2EM220
	33	505.0	0.18	250	12.5	20	5.0	0.6	P5336-ND	1.00	4.81	36.07	128.24	213.00	205.00/M	ECA-2EM330
	47	715.0	0.18	350	12.5	25	5.0	0.6	P5337-ND	1.21	6.12	45.90	163.20	271.00	261.00/M	ECA-2EM470
	100	1510.0	0.18	530	16	31.5	7.5	0.8	P5338-ND	1.91	9.65	72.86	273.23	474.00	459.00/M	ECA-2EM101
	220	3310.0	0.18	930	18	40	7.5	0.8	P5339-ND	4.15	24.33	183.60	688.50	1193.00	1157.00/M	ECA-2EM221
450	1.0	37.0	0.20	37	8	11.5	3.5	0.6	P5340-ND	.44	1.94	13.85	49.86	78.00	72.00/M	ECA-2WM010
	2.2	69.4	0.20	44	10	12.5	5.0	0.6	P5341-ND	.52	2.65	18.95	68.22	106.00	99.00/M	ECA-2WM2R2
	3.3	99.1	0.20	60	10	16	5.0	0.6	P5342-ND	.59	2.80	20.54	74.29	118.00	114.00/M	ECA-2WM3R3
	4.7	136.0	0.20	79	10	20	5.0	0.6	P5343-ND	.85	3.50	25.69	92.91	148.00	142.00/M	ECA-2WM4R7
	10	280.0	0.20	130	12.5	20	5.0	0.6	P5344-ND	1.18	5.46	40.97	145.68	242.00	233.00/M	ECA-2WM100
	22	604.0	0.20	210	16	25	7.5	0.8	P5345-ND	1.63	8.50	64.12	240.45	417.00	404.00/M	ECA-2WM220
	33	901.0	0.20	285	16	31.5	7.5	0.8	P5346-ND	1.95	10.81	81.60	306.00	530.00	514.00/M	ECA-2WM330

*** M-KIT-ND** ***Digi-Key® M Series Capacitors Kit*** 10 each of values denoted. 170 total pieces. Included notebook style storage case and bin storage guide.. **$69.95**

Panasonic®

NHG Series Radial Lead Aluminum Electrolytic Capacitors

Panasonic NHG Series Cross References:
Nippon Chemicon: KMG; **Nichicon:** VZ;
Elna: RJ4; **Rubycon:** YXA

FEATURES:

- Compact size (same case size with series M)
- Life: 1000 ~ 2000 hours at +105°C

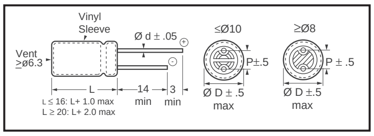

SPECIFICATIONS:

Operating Temperature Range	-55°C ~ 105°C	-25°C ~ 105°C
Rated Working Voltage Range	6.3 to 100VDC	160 to 450VDC
Nominal Capacitance Range	0.1 to 22000 µF	1.0 to 330 µF

Capacitance Tolerance: ±20% (120 Hz, +20°C)

Leakage Current	I ≤ 0.01 CV µA or 3µA, whichever is greater after 2 minutes application of rated working voltage at 20°C.	I ≤ 0.06 CV + 10µA after 2 minutes application of rated working voltage at 20°C.

tan δ: (at 120 Hz, +20°C)

W.V.	6.3	10	16	25	35	50	63	100	160	250	450
tan δ max.	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.15	0.15	0.24

For capacitance value > 1000 µF, add 0.02 per every 1000 µF.

Ripple Current: 120 Hz, 105°C

W.V. (V.DC)	**Cap (µF)**	**Frequency (Hz)**				
		60	**120**	**1k**	**10k**	**100k**
6.3 ~ 100	**~ 33**	0.75	1	1.55	1.80	2.00
	47 ~ 470	0.80	1	1.35	1.50	1.50
	1000 ~	0.85	1	1.10	1.15	1.15
160 ~ 450	**1.0 ~ 330**	0.80	1	1.35	1.50	1.50

Endurance:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	2000 Hours*	**Leakage Current**	≤ initial specified value
Ambient Temperature	105°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	Rated DC Working Voltage	**tan δ**	≤ 200% initial specified value

* 1000 Hours for ≤ Ø8mm products.

Shelf Life:

Test Conditions		**Post Test Requirements at +20°C**	
Duration	1000 Hours	**Leakage Current**	≤ initial specified value
Ambient Temperature	105°C	**Capacitance Change**	±20% of initial measured value
Applied Voltage	—	**tan δ**	≤ 200% initial specified value

WV (VDC)	**Cap. µF**	**D.C.L. (+20°C) (µA) max.**	**tan δ max.**	**Ripple Current (mA) rms**	**Dimensions (mm)**				**Digi-Key Part No.**	**Pricing**						**Panasonic Part No.**
					øD	**L**	**P**	**ød**		**1**	**10**	**100**	**500**	**1,000**	**5,000**	
6.3	100	6.3	0.28	91	5	11	2.0	0.5	P5505-ND	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-0JHG101
	220	13.8	0.28	140	5	11	2.0	0.5	P5506-ND	.19	.97	6.82	23.56	37.00	32.00/M	ECA-0JHG221
	330	20.7	0.28	190	6.3	11.2	2.5	0.5	P5507-ND	.30	1.53	10.81	37.34	59.00	51.00/M	ECA-0JHG331
	470	29.6	0.28	230	6.3	11.2	2.5	0.5	P5508-ND	.24	1.38	9.83	35.37	55.00	51.00/M	ECA-0JHG471
	1000	63.0	0.28	380	8	11.5	3.5	0.6	P5509-ND	.38	2.24	16.03	57.69	90.00	83.00/M	ECA-0JHG102
	2200	138.6	0.30	710	10	16	5.0	0.6	P5510-ND	.63	3.54	26.01	94.10	149.00	144.00/M	ECA-0JHG222
	3300	207.9	0.32	840	10	20	5.0	0.6	P5511-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-0JHG332
	4700	296.1	0.34	1090	12.5	20	5.0	0.6	P5512-ND	.99	5.68	42.62	151.52	252.00	242.00/M	ECA-0JHG472
	6800	428.4	0.38	1350	12.5	25	5.0	0.6	P5513-ND	1.27	7.21	54.09	192.32	320.00	308.00/M	ECA-0JHG682
	10000	630.0	0.46	1650	16	25	7.5	0.8	P5514-ND	1.61	9.27	69.94	262.28	455.00	441.00/M	ECA-0JHG103
	15000	945.0	0.56	2010	16	31.5	7.5	0.8	P5515-ND	2.14	12.36	93.26	349.73	606.00	588.00/M	ECA-0JHG153
	22000	1386.0	0.70	2350	18	35.5	7.5	0.8	P5516-ND	3.02	17.38	131.14	491.78	852.00	826.00/M	ECA-0JHG223
10	100	10.0	0.24	110	5	11	2.0	0.5	P5517-ND	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1AHG101
	220	22.0	0.24	170	6.3	11.2	2.5	0.5	P5518-ND	.30	1.53	10.81	37.34	59.00	51.00/M	ECA-1AHG221
	330	33.0	0.24	200	6.3	11.2	2.5	0.5	P5519-ND	.25	1.38	9.83	35.37	55.00	51.00/M	ECA-1AHG331
	470	47.0	0.24	250	8	11.5	3.5	0.6	P5520-ND	.35	2.04	14.58	52.47	82.00	76.00/M	ECA-1AHG471
	1000	100.0	0.24	460	10	12.5	5.0	0.6	P5521-ND	.41	2.80	20.54	74.29	118.00	114.00/M	ECA-1AHG102
	2200	220.0	0.26	760	10	20	5.0	0.6	P5522-ND	.79	4.43	32.52	117.64	187.00	180.00/M	ECA-1AHG222
	3300	330.0	0.28	1000	12.5	20	5.0	0.6	P5523-ND	.96	5.68	42.62	151.52	252.00	242.00/M	ECA-1AHG332
	4700	470.0	0.30	1260	12.5	25	5.0	0.6	P5524-ND	1.30	7.65	57.38	204.00	339.00	326.00/M	ECA-1AHG472
	6800	680.0	0.34	1570	16	25	7.5	0.8	P5525-ND	1.84	10.49	78.68	279.76	465.00	448.00/M	ECA-1AHG682
	10000	1000.0	0.42	1890	16	31.5	7.5	0.8	P5526-ND	2.15	12.36	93.26	349.73	606.00	588.00/M	ECA-1AHG103
	15000	1500.0	0.52	2180	18	35.5	7.5	0.8	P5527-ND	3.02	17.38	131.14	491.78	852.00	826.00/M	ECA-1AHG153
16	47	7.5	0.20	77	5	11	2.0	0.5	P5528-ND	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1CHG470
	100	16.0	0.20	110	5	11	2.0	0.5	P5529-ND	.19	.97	6.82	23.56	37.00	32.00/M	ECA-1CHG101
	220	35.2	0.20	180	6.3	11.2	2.5	0.5	P5530-ND	.25	1.38	9.83	35.37	55.00	51.00/M	ECA-1CHG221
	330	52.8	0.20	260	8	11.5	3.5	0.6	P5531-ND	.37	2.04	14.58	52.47	82.00	76.00/M	ECA-1CHG331
	470	75.2	0.20	310	8	11.5	3.5	0.6	P5532-ND	.40	2.24	16.03	57.69	90.00	83.00/M	ECA-1CHG471
	1000	160.0	0.20	560	10	16	5.0	0.6	P5533-ND	.63	3.54	26.01	94.10	149.00	144.00/M	ECA-1CHG102
	2200	352.0	0.22	920	12.5	20	5.0	0.6	P5534-ND	.99	5.68	42.62	151.52	252.00	242.00/M	ECA-1CHG222
	3300	528.0	0.24	1170	12.5	25	5.0	0.6	P5535-ND	1.35	7.65	57.38	204.00	339.00	326.00/M	ECA-1CHG332
	4700	752.0	0.26	1480	16	25	7.5	0.8	P5536-ND	1.61	9.27	69.94	262.28	455.00	441.00/M	ECA-1CHG472
	6800	1088.0	0.30	1780	16	31.5	7.5	0.8	P5537-ND	2.07	12.36	93.26	349.73	606.00	588.00/M	ECA-1CHG682
	10000	1600.0	0.38	2060	18	35.5	7.5	0.8	P5538-ND	3.02	17.38	131.14	491.78	852.00	826.00/M	ECA-1CHG103
25	47	11.7	0.16	91	5	11	2.0	0.5	P5539-ND	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1EHG470
	100	25.0	0.16	130	6.3	11.2	2.5	0.5	P5540-ND	.28	1.53	10.81	37.34	59.00	51.00/M	ECA-1EHG101
	220	55.0	0.16	230	8	11.5	3.5	0.6	P5541-ND	.35	2.04	14.58	52.47	82.00	76.00/M	ECA-1EHG221
	330	82.5	0.16	310	8	11.5	3.5	0.6	P5542-ND	.42	2.35	16.75	60.30	94.00	87.00/M	ECA-1EHG331
	470	117.5	0.16	380	10	12.5	5.0	0.6	P5543-ND	.49	2.94	21.57	78.03	124.00	119.00/M	ECA-1EHG471
	1000	250.0	0.16	680	10	20	5.0	0.6	P5544-ND	.82	4.66	34.24	123.85	197.00	189.00/M	ECA-1EHG102
	2200	550.0	0.18	1090	12.5	25	5.0	0.6	P5545-ND	1.29	7.65	57.38	204.00	339.00	326.00/M	ECA-1EHG222
	3300	825.0	0.20	1400	16	25	7.5	0.8	P5546-ND	1.65	9.85	74.32	278.70	483.00	468.00/M	ECA-1EHG332
	4700	1175.0	0.22	1750	16	31.5	7.5	0.8	P5547-ND	1.84	12.36	93.26	349.73	606.00	588.00/M	ECA-1EHG472
	6800	1700.0	0.26	2040	18	35.5	7.5	0.8	P5548-ND	3.15	18.15	136.98	513.68	890.00	863.00/M	ECA-1EHG682
35	33	11.5	0.14	75	5	11	2.0	0.5	P5549-ND	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1VHG330
	47	16.4	0.14	90	5	11	2.0	0.5	P5550-ND	.19	.97	6.82	23.56	37.00	32.00/M	ECA-1VHG470
	100	35.0	0.14	150	6.3	11.2	2.5	0.5	P5551-ND	.25	1.38	9.83	35.37	55.00	51.00/M	ECA-1VHG101
	220	77.0	0.14	270	8	11.5	3.5	0.6	P5552-ND	.42	2.35	16.75	60.30	94.00	87.00/M	ECA-1VHG221
	330	115.5	0.14	350	10	12.5	5.0	0.6	P5553-ND	.52	2.94	21.57	78.03	124.00	119.00/M	ECA-1VHG331
	470	164.5	0.14	460	10	16	5.0	0.6	P5554-ND	.56	3.54	26.01	94.10	149.00	144.00/M	ECA-1VHG471
	1000	350.0	0.14	810	12.5	20	5.0	0.6	P5555-ND	1.03	5.90	44.26	157.36	262.00	252.00/M	ECA-1VHG102
	2200	770.0	0.16	1260	16	25	7.5	0.8	P5556-ND	1.71	9.85	74.32	278.70	483.00	468.00/M	ECA-1VHG222
	3300	1155.0	0.18	1610	16	31.5	7.5	0.8	P5557-ND	2.15	12.36	93.26	349.73	606.00	588.00/M	ECA-1VHG332
	4700	1645.0	0.20	1910	18	35.5	7.5	0.8	P5558-ND	3.15	18.15	136.98	513.68	890.00	863.00/M	ECA-1VHG472
50	0.1	3.0	0.12	1.1	5	11	2.0	0.5	P5559-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG0R1
	0.22	3.0	0.12	2.3	5	11	2.0	0.5	P5560-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHGR22
	0.33	3.0	0.12	3.5	5	11	2.0	0.5	P5561-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHGR33
	0.47	3.0	0.12	5	5	11	2.0	0.5	P5562-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHGR47
	1.0	3.0	0.12	10	5	11	2.0	0.5	P5563-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG010
	2.2	3.0	0.12	18	5	11	2.0	0.5	P5564-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG2R2
	3.3	3.0	0.12	22	5	11	2.0	0.5	P5565-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG3R3
	4.7	3.0	0.12	26	5	11	2.0	0.5	P5566-ND*	.24	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG4R7
	10	5.0	0.12	39	5	11	2.0	0.5	P5567-ND*	.22	1.14	7.69	26.04	40.00	33.00/M	ECA-1HHG100
	22	11.0	0.12	65	5	11	2.0	0.5	P5568-ND*	.18	.97	6.82	23.56	37.00	32.00/M	ECA-1HHG220
	33	16.5	0.12	90	5	11	2.0	0.5	P5569-ND*	.19	.97	6.82	23.56	37.00	32.00/M	ECA-1HHG330
	47	23.5	0.12	110	6.3	11.2	2.5	0.5	P5570-ND*	.29	1.53	10.81	37.34	59.00	51.00/M	ECA-1HHG470
	100	50.0	0.12	180	8	11.5	3.5	0.6	P5571-ND*	.39	2.14	15.30	55.08	86.00	80.00/M	ECA-1HHG101
	220	110.0	0.12	330	10	12.5	5.0	0.6	P5572-ND*	.50	2.94	21.57	78.03	124.00	119.00/M	ECA-1HHG221
	330	165.0	0.12	410	10	16	5.0	0.6	P5573-ND*	.57	3.54	26.01	94.10	149.00	144.00/M	ECA-1HHG331
	470	235.0	0.12	530	10	20	5.0	0.6	P5574-ND*	.70	4.66	34.24	123.85	197.00	189.00/M	ECA-1HHG471
	1000	500.0	0.12	950	12.5	25	5.0	0.6	P5575-ND*	1.19	7.65	57.38	204.00	339.00	326.00/M	ECA-1HHG102
	2200	1100.0	0.14	1470	16	31.5	7.5	0.8	P5576-ND*	1.74	12.36	93.26	349.73	606.00	588.00/M	ECA-1HHG222
	3300	1650.0	0.16	1770	18	35.5	7.5	0.8	P5577-ND	3.04	18.15	136.98	513.68	890.00	863.00/M	ECA-1HHG332

(Continued)

Panasonic NHG Series Radial Lead Aluminum Electrolytic Capacitors *(Cont.)*

WV (VDC)	Cap. µF	D.C.L. (±20°C) (µA) max.	tan δ max.	Ripple Current (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
					øD	L	P	ød		1	10	100	500	1,000	5,000	
63	10	6.3	0.10	46	5	11	2.0	0.5	P5578-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1JHG100
	22	13.8	0.10	71	5	11	2.0	0.5	P5579-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-1JHG220
	33	20.7	0.10	100	6.3	11.2	2.5	0.5	P5580-ND	.31	1.59	11.22	38.76	61.00	53.00/M	ECA-1JHG330
	47	29.6	0.10	120	6.3	11.2	2.5	0.5	P5581-ND	.25	1.43	10.20	36.72	57.00	53.00/M	ECA-1JHG470
	100	63.0	0.10	215	10	12.5	5.0	0.6	P5582-ND	.48	3.21	22.95	82.62	129.00	119.00/M	ECA-1JHG101
	220	138.6	0.10	335	10	16	5.0	0.6	P5583-ND	.69	3.87	28.41	102.77	163.00	157.00/M	ECA-1JHG221
	330	207.9	0.10	510	10	20	5.0	0.6	P5584-ND	.91	5.13	37.67	136.26	216.00	208.00/M	ECA-1JHG331
	470	296.1	0.10	640	12.5	20	5.0	0.6	P5585-ND	1.15	6.56	49.19	174.88	291.00	280.00/M	ECA-1JHG471
	1000	630.0	0.10	930	16	25	7.5	0.8	P5586-ND	1.78	10.23	77.22	289.58	502.00	486.00/M	ECA-1JHG102
	2200	1386.0	0.12	1610	18	35.5	7.5	0.8	P5587-ND	3.49	20.08	151.54	568.28	985.00	955.00/M	ECA-1JHG222
100	0.47	3.0	0.08	9	5	11	2.0	0.5	P5588-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHGR47
	1.0	3.0	0.08	14	5	11	2.0	0.5	P5589-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG010
	2.2	3.0	0.08	21	5	11	2.0	0.5	P5590-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG2R2
	3.3	3.3	0.08	31	5	11	2.0	0.5	P5591-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG3R3
	4.7	4.7	0.08	38	5	11	2.0	0.5	P5592-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECA-2AHG4R7
	10	10.0	0.08	54	6.3	11.2	2.5	0.5	P5593-ND	.30	1.59	11.22	38.76	61.00	53.00/M	ECA-2AHG100
	22	22.0	0.08	93	6.3	11.2	2.5	0.5	P5594-ND	.25	1.43	10.20	36.72	57.00	53.00/M	ECA-2AHG220
	33	33.0	0.08	130	8	11.5	3.5	0.6	P5595-ND	.44	2.45	17.48	62.91	98.00	91.00/M	ECA-2AHG330
	47	47.0	0.08	165	10	12.5	5.0	0.6	P5596-ND	.53	2.96	21.13	76.05	118.00	110.00/M	ECA-2AHG470
	100	100.0	0.08	265	10	20	5.0	0.6	P5597-ND	.91	5.13	37.67	136.26	216.00	208.00/M	ECA-2AHG101
	220	220.0	0.08	440	12.5	25	5.0	0.6	P5598-ND	1.36	7.78	58.37	207.52	345.00	332.00/M	ECA-2AHG221
	330	330.0	0.08	540	16	25	7.5	0.8	P5599-ND	1.92	10.93	81.97	291.44	485.00	466.00/M	ECA-2AHG331
	470	470.0	0.08	715	16	25	7.5	0.8	P5850-ND	2.02	11.58	87.42	327.83	568.00	551.00/M	ECA-2AHG471
	1000	1000.0	0.08	985	18	35.5	7.5	0.8	P5851-ND	3.49	20.08	151.54	568.28	985.00	955.00/M	ECA-2AHG102
160	1.0	19.6	0.15	17	6.3	11.2	2.5	0.5	P5852-ND	.34	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG010
	2.2	31.1	0.15	25	6.3	11.2	2.5	0.5	P5853-ND	.38	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG2R2
	3.3	41.6	0.15	36	6.3	11.2	2.5	0.5	P5854-ND	.41	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG3R3
	4.7	55.1	0.15	43	6.3	11.2	2.5	0.5	P5855-ND	.45	1.53	10.93	39.33	61.00	57.00/M	ECA-2CHG4R7
	10	106.0	0.15	70	10	12.5	5.0	0.6	P5856-ND	.53	2.70	19.86	71.83	114.00	110.00/M	ECA-2CHG100
	22	221.0	0.15	130	10	20	5.0	0.6	P5857-ND	.71	3.64	26.72	96.65	153.00	148.00/M	ECA-2CHG220
	33	326.0	0.15	180	10	20	5.0	0.6	P5858-ND	.82	3.41	25.58	90.96	151.00	146.00/M	ECA-2CHG330
	47	461.0	0.15	220	12.5	20	5.0	0.6	P5859-ND	1.02	4.81	36.07	128.24	213.00	205.00/M	ECA-2CHG470
	100	970.0	0.15	335	16	25	7.5	0.8	P5860-ND	1.50	7.87	59.02	209.84	349.00	336.00/M	ECA-2CHG101
	220	2122.0	0.15	540	16	31.5	7.5	0.8	P5861-ND	2.28	10.81	81.60	306.00	530.00	514.00/M	ECA-2CHG221
	330	3178.0	0.15	705	18	31.5	7.5	0.8	P5862-ND	3.26	19.31	145.72	546.45	947.00	918.00/M	ECA-2CHG331
250	1.0	25.0	0.15	17	6.3	11.2	2.5	0.5	P5863-ND	.40	1.53	10.93	39.33	61.00	57.00/M	ECA-2EHG010
	2.2	43.0	0.15	29	6.3	11.2	2.5	0.5	P5864-ND	.42	1.53	10.93	39.33	61.00	57.00/M	ECA-2EHG2R2
	3.3	59.5	0.15	42	8	11.5	3.5	0.6	P5865-ND	.45	1.87	13.70	49.56	79.00	76.00/M	ECA-2EHG3R3
	4.7	80.5	0.15	50	8	11.5	3.5	0.6	P5866-ND	.52	2.10	15.42	55.76	89.00	85.00/M	ECA-2EHG4R7
	10	160.0	0.15	88	10	16	5.0	0.6	P5867-ND	.78	3.54	26.01	94.10	149.00	144.00/M	ECA-2EHG100
	22	340.0	0.15	155	12.5	20	5.0	0.6	P5868-ND	.94	5.03	37.71	134.08	223.00	215.00/M	ECA-2EHG220
	33	505.0	0.15	190	12.5	20	5.0	0.6	P5869-ND	1.12	5.46	40.97	145.68	242.00	233.00/M	ECA-2EHG330
	47	715.0	0.15	230	12.5	25	5.0	0.6	P5870-ND	1.45	6.99	52.45	186.48	310.00	298.00/M	ECA-2EHG470
	100	1510.0	0.15	365	16	31.5	7.5	0.8	P5871-ND	2.22	10.81	81.60	306.00	530.00	514.00/M	ECA-2EHG101
450	1.0	37.0	0.20	18	8	11.5	3.5	0.6	P5872-ND	.56	2.33	17.13	61.97	98.00	95.00/M	ECA-2WHG010
	2.2	69.4	0.20	29	10	12.5	5.0	0.6	P5873-ND	.60	2.80	20.54	74.29	118.00	114.00/M	ECA-2WHG2R2
	3.3	99.1	0.20	41	10	16	5.0	0.6	P5874-ND	.84	3.64	26.72	96.65	153.00	148.00/M	ECA-2WHG3R3
	4.7	136.0	0.20	49	10	20	5.0	0.6	P5875-ND	.88	3.72	27.88	99.12	165.00	159.00/M	ECA-2WHG4R7
	10	280.0	0.20	75	12.5	20	5.0	0.6	P5876-ND	1.50	6.56	49.19	174.88	291.00	280.00/M	ECA-2WHG100
	22	604.0	0.20	115	16	25	7.5	0.8	P5877-ND	2.00	9.27	69.94	262.28	455.00	441.00/M	ECA-2WHG220
	33	901.0	0.20	155	16	31.5	7.5	0.8	P5878-ND	2.45	11.58	87.42	327.83	568.00	551.00/M	ECA-2WHG330

*** NHG-KIT-ND** ***Digi-Key® NHG Series Capacitors Kit*** 10 each of values denoted. 180 total pieces. Included notebook style storage case and bin storage guide **$69.95**

F

Panasonic Z Series Miniature Aluminum Electrolytic Capacitors

±20%, Low Leakage, Low Impedance

SPECIFICATIONS:

- **Operating Temperature:** -40°C ~ +85°C • **Rated Working Voltage:** 6.3 ~ 50VDC • **Rated Capacitance:** 0.1 ~ 2200µF • **Capacitance Tolerance:** ±20% • **Leakage Current:** I = 0.002CV + 1 (mA) max.; Where, I:-DC leakage current (µA) C:-rated capacitance (µF), V:-DC rated working voltage (V). Leakage current is measured after 2-minute application of the rated DC working voltage. • **Surge Voltage:** The listed surge voltage is applied to the capacitor in series with 1,000 ohms resistor at a cycle of 0.5 minute "ON" and 4.5 minute "OFF" repeating 1,000 times at 25°C ±10°C. After the test, the capacitor should meet the following limits:

Working Voltage	Surge Voltage
10VDC	13VDC

Capacitance change	Within ±10% of the initial measured value
tan δ	Less than 150% of the initial specified value
DC leakage current	Less than the initial specified value

- **tan δ. (Dissipation Factor) Max.**

Working Voltage	tan δ	D.F.
10VDC	0.17	17

0.06 for 1µF or less.

- **Low Temperature Stability:** Maximum impedance ratio against +20°C at 120Hz

Working Voltage	-25°C ~ +20°C	-40°C ~ +20°C
10V	2	4

- **Load Life:** After 2,000 hour application of DC working voltage at +85°C with specified RMS ripple current, the measurements should meet the following requirements:

Capacitance change	Within ±20% of the initial measured value
tan δ	Less than 200% of the initial specified value
DC leakage current	Less than the initial specified value

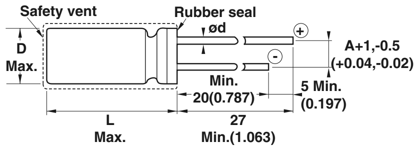

PANASONIC Z
CROSS REFERENCES

IC: RLR
Sprague: 30D
UCC: SX

Not recommended for new designs.

Rating		Dimensions mm (inch)				Max. RMS Ripple Current (mA) @ 120 Hz, 85°C	Max. Leakage Current µA	Digi-Key Part No.	Price Each				Panasonic Part No.
WV DC	Cap. µF	D	L	A	d				1	10	100	1,000	
10	2200	16.0 (.630)	31.5 (1.299)	7.5 (.295)	0.8 (.032)	850	45.0	P6614-ND	1.43	1.08	.81	.48	ECE-A10Z2200

Panasonic® FC Series Radial Lead Aluminum Electrolytic Capacitors

FEATURES:
- Low impedance • Long life: 1000 ~ 5000 hours at 105°C

SPECIFICATIONS:
- **Operating Temperature Range:** -55 ~ 105°C • **Rated Working Voltage Range:** 6.3 to 100VDC • **Nominal Capacitance Range:** 1.0 ~ 15000μF • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3 (μA) whichever is greater measured after 2 minutes application of rated working voltage at 20°C
- **tan δ:** (120Hz, 20°C)

Working Volt. (V)	6.3	10	16	25	35	50	63	100
tan δ Maximum	0.22	0.19	0.16	0.14	0.12	0.10	0.08	0.07

For capacitance value > 1000μF, add 0.02 per every 1000μF.

- **Impedance at High Frequency:** Refer to standard product table (100kHz, 20°C) • **Ripple Current:** Refer to standard product table (100kHz, 105°C)

Endurance:
Test Conditions — Duration: 1000 hours (for Ø4 ~ Ø6.3mm), 2000 hours (for Ø8mm), 3000 hours (for Ø10mm), 5000 hours (for Ø12.5mm ~ 18mm) • **Ambient Temperature:** 105°C ±2°C • **Applied Voltage:** DC voltage with maximum permissible ripple current specified at 105°C (the sum of the DC voltage and super-imposed peak AC voltage for maximum permissible ripple current should be equal to rated DC working voltage.)
Post Test Requirements at 20°C — Leakage Current: ≤ Initial specified value • **Capacitance change:** ±20% of initial measured value • **tan δ:** ≤ 200% of initial specified value

Shelf Life:
Test Conditions — Duration: 1000 hours • **Ambient Temperature:** 105°C ±2°C • **Applied Voltage:** (none)
Post Test Requirements at 20°C — Leakage Current: ≤ Initial specified value • **Capacitance change:** ±20% of initial measured value • **tan δ:** ≤ 200% of initial specified value
- **Body Color:** Black Blue • **Marking Color:** Gold

Frequency Correction Factor for Ripple Current

W.V. (V DC)	Cap. (μF)	Frequency (Hz) 60	120	1K	10K	100K
6.3 ~ 100	1.0 ~ 330	0.55	0.65	0.85	0.90	1.00
	390 ~ 1000	0.70	0.75	0.90	0.95	1.00
	1200 ~ 2200	0.75	0.80	0.90	0.95	1.00
	2700 ~ 15000	0.80	0.85	0.95	1.00	1.00

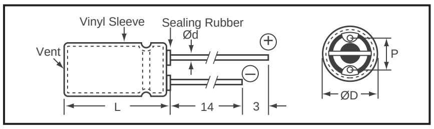

W.V. (V)	Cap. (μF)	Dimensions (mm) ØD	L	P	Ød	Leakage Current (20°C) (2 Min.) (μA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
6.3	68	4	11	1.5	0.45	4.28	1.30	120	1000	P12700-ND	.28	.19	.14	.08	EEU-FC0J680
	100	5	11	2.0	0.50	6.3	0.80	175	1000	P10195-ND	.34	.14	.10	.06	EEU-FC0J101
	150	5	15	2.0	0.50	9.4	0.50	235	1000	P10196-ND	.30	.21	.15	.08	EEU-FC0J151
	220	6.3	11.2	2.0	0.50	13.86	0.350	290	1000	P12701-ND	.34	.17	.13	.07	EEU-FC0J221
	330	6.3	11.2	2.5	0.50	20.7	0.35	290	1000	P10197-ND	.28	.16	.11	.07	EEU-FC0J331S
	330	6.3	15	2.5	0.50	20.79	0.250	400	1000	P12702-ND	.39	.26	.18	.10	EEU-FC0J331
	390	8	11.5	3.5	0.60	24.57	0.117	555	2000	P12703-ND	.48	.25	.18	.10	EEU-FC0J391
	470	8	11.5	3.5	0.60	29.61	0.117	555	2000	P12704-ND	.48	.25	.18	.10	EEU-FC0J471
	560	8	11.5	3.5	0.60	35.28	0.117	555	2000	P12705-ND	.48	.25	.18	.10	EEU-FC0J561
	820	10	12.5	5.0	0.60	51.66	0.090	755	3000	P12706-ND	.63	.35	.25	.14	EEU-FC0J821
	820	8	15	3.5	0.60	51.6	0.085	730	2000	P10198-ND	.48	.28	.21	.12	EEU-FC0J821L
	1000	10	12.5	5.0	0.60	63.0	0.090	755	3000	P10199-ND	.47	.28	.21	.12	EEU-FC0J102
	1200	10	16	5.0	0.60	75.6	0.068	1050	3000	P10201-ND	.61	.38	.28	.16	EEU-FC0J122
	1200	8	20	3.5	0.60	75.6	0.065	995	2000	P10200-ND	.53	.33	.24	.14	EEU-FC0J122L
	1500	12.5	15	5.0	0.60	94.5	0.065	1205	5000	P10203-ND	.80	.55	.40	.23	EEU-FC0J152S
	1500	10	20	5.0	0.60	94.5	0.052	1220	3000	P10202-ND	.73	.45	.33	.19	EEU-FC0J152
	1800	10	25	5.0	0.60	113.4	0.045	1440	3000	P12707-ND	1.07	.62	.44	.24	EEU-FC0J182
	2200	16	15	7.5	0.80	138.6	0.043	1690	5000	P10205-ND	1.05	.73	.55	.32	EEU-FC0J222S
	2200	10	25	5.0	0.60	138.6	0.045	1440	3000	P10204-ND	.80	.51	.37	.22	EEU-FC0J222
	2700	16	15	7.5	0.80	170.1	0.043	1690	5000	P11175-ND	1.51	.94	.67	.37	EEU-FC0J272S
	2700	12.5	20	5.0	0.60	170.1	0.038	1655	5000	P12709-ND	1.30	.77	.55	.30	EEU-FC0J272
	2700	10	30	5.0	0.60	170.1	0.035	1815	3000	P12708-ND	1.20	.76	.54	.30	EEU-FC0J272L
	3300	18	15	7.5	0.80	207.9	0.038	2000	5000	P10207-ND	1.39	.98	.74	.44	EEU-FC0J332S
	3300	12.5	20	5.0	0.60	207.9	0.038	1655	5000	P10206-ND	.90	.59	.45	.27	EEU-FC0J332
	3900	12.5	25	5.0	0.60	245.7	0.030	1945	5000	P10208-ND	1.24	.75	.56	.33	EEU-FC0J392
	4700	16	20	7.5	0.80	296.1	0.029	2205	5000	P10210-ND	1.41	.92	.69	.41	EEU-FC0J472S
	4700	12.5	30	5.0	0.80	296.1	0.025	2310	5000	P10209-ND	1.26	.77	.58	.34	EEU-FC0J472
	5600	16	20	7.5	0.80	352.8	0.029	2205	5000	P11176-ND	2.03	1.20	.85	.46	EEU-FC0J562
	5600	12.5	35	5.0	0.80	352.8	0.022	2510	5000	P10211-ND	1.39	1.00	.75	.45	EEU-FC0J562L
	6800	18	20	7.5	0.80	428.4	0.028	2490	5000	P10214-ND	1.61	1.11	.84	.54	EEU-FC0J682S
	6800	16	25	7.5	0.80	428.4	0.022	2555	5000	P10213-ND	1.66	1.10	.82	.49	EEU-FC0J682
	6800	12.5	40	5.0	0.80	428.4	0.018	2655	5000	P10212-ND	1.59	1.15	.86	.51	EEU-FC0J682L
	8200	16	31.5	7.5	0.80	516.6	0.018	3010	5000	P11177-ND	3.23	1.82	1.29	.70	EEU-FC0J822
	10000	18	25	7.5	0.80	630.0	0.020	2740	5000	P10216-ND	2.04	1.39	1.05	.69	EEU-FC0J103S
	10000	16	35.5	7.5	0.80	630.0	0.016	3150	5000	P10215-ND	1.99	1.42	1.07	.70	EEU-FC0J103
	12000	18	31.5	7.5	0.80	756.0	0.016	3635	5000	P11178-ND	3.71	2.37	1.67	.91	EEU-FC0J123
	12000	16	40	7.5	0.80	756.0	0.015	3360	5000	P11179-ND	3.76	2.30	1.62	.89	EEU-FC0J123L
	15000	18	35.5	7.5	0.80	945.0	0.015	3680	5000	P10217-ND	2.71	1.74	1.32	.86	EEU-FC0J153
10	47	4	11	1.5	0.45	4.7	1.30	120	1000	P11180-ND	.28	.19	.14	.08	EEU-FC1A470
	82	5	11	2.0	0.50	8.2	0.80	175	1000	P10218-ND	.34	.14	.10	.06	EEU-FC1A820
	100	5	11	2.0	0.50	10.0	0.80	175	1000	P11181-ND	.34	.14	.10	.06	EEU-FC1A101S
	100	5	15	2.0	0.50	10.0	0.50	235	1000	P10219-ND	.30	.21	.15	.08	EEU-FC1A101
	180	6.3	11.2	2.5	0.50	18.0	0.35	290	1000	P11182-ND	.34	.17	.13	.07	EEU-FC1A181
	220	6.3	11.2	2.5	0.50	22.0	0.35	290	1000	P10220-ND	.28	.16	.11	.07	EEU-FC1A221S
	220	6.3	15	2.5	0.50	22.0	0.25	400	1000	P11183-ND	.39	.26	.18	.10	EEU-FC1A221
	330	8	11.5	3.5	0.60	33.0	0.117	555	2000	P11184-ND	.48	.25	.18	.10	EEU-FC1A331
	390	8	11.5	3.5	0.60	39.0	0.117	555	2000	P11185-ND	.48	.25	.18	.10	EEU-FC1A391
	470	8	11.5	3.5	0.60	47.0	0.117	555	2000	P10221-ND	.40	.22	.16	.09	EEU-FC1A471
	560	10	12.5	5.0	0.60	56.0	0.09	755	3000	P11186-ND	.63	.35	.25	.14	EEU-FC1A561
	680	10	12.5	5.0	0.60	68.0	0.090	755	3000	P10223-ND	.45	.28	.21	.12	EEU-FC1A681
	680	8	15	3.5	0.60	68.0	0.085	730	2000	P10222-ND	.48	.28	.21	.12	EEU-FC1A681L
	820	10	16	5.0	0.60	82.0	0.068	1050	3000	P11187-ND	.81	.46	.33	.18	EEU-FC1A821
	1000	10	16	5.0	0.60	100.0	0.068	1050	3000	P10225-ND	.59	.38	.28	.16	EEU-FC1A102
	1000	8	20	3.5	0.60	82.0	0.065	995	2000	P10224-ND	.53	.33	.24	.14	EEU-FC1A102L
	1200	12.5	15	5.0	0.60	120.0	0.065	1205	5000	P10227-ND	.80	.55	.40	.23	EEU-FC1A122S
	1200	10	20	5.0	0.60	120.0	0.052	1220	3000	P10226-ND	.72	.45	.33	.19	EEU-FC1A122
	1500	10	25	5.0	0.60	150.0	0.045	1440	3000	P10228-ND	.80	.51	.37	.22	EEU-FC1A152
	1800	16	15	7.5	0.80	180.0	0.043	1690	5000	P10229-ND	1.05	.73	.55	.32	EEU-FC1A182S
	1800	12.5	20	5.0	0.60	180.0	0.038	1655	5000	P11188-ND	1.30	.77	.55	.30	EEU-FC1A182
	2200	12.5	20	5.0	0.60	220.0	0.038	1655	5000	P10230-ND	.90	.59	.45	.27	EEU-FC1A222
	2200	10	30	5.0	0.60	220.0	0.035	1815	3000	P11189-ND	1.20	.76	.54	.30	EEU-FC1A222L
	2700	18	15	7.5	0.80	270.0	0.038	2000	5000	P10232-ND	1.39	.98	.74	.44	EEU-FC1A272S
	2700	12.5	25	5.0	0.60	270.0	0.030	1945	5000	P10231-ND	1.20	.75	.56	.33	EEU-FC1A272
	3300	16	20	7.5	0.80	330.0	0.029	2205	5000	P10234-ND	1.41	.92	.69	.41	EEU-FC1A332S
	3300	12.5	30	5.0	0.80	330.0	0.025	2310	5000	P10233-ND	1.26	.77	.58	.34	EEU-FC1A332
	3900	16	20	7.5	0.80	390.0	0.029	2205	5000	P11190-ND	2.13	1.20	.85	.46	EEU-FC1A392
	3900	12.5	35	5.0	0.80	390.0	0.022	2510	5000	P10235-ND	1.39	1.00	.75	.45	EEU-FC1A392L
	4700	16	25	7.5	0.80	470.0	0.022	2555	5000	P10237-ND	1.81	1.10	.82	.49	EEU-FC1A472
	4700	12.5	40	5.0	0.80	470.0	0.018	2655	5000	P10236-ND	1.53	1.15	.86	.51	EEU-FC1A472L
	5600	18	20	7.5	0.80	560.0	0.028	2490	5000	P10238-ND	1.61	1.11	.84	.54	EEU-FC1A562S
	5600	16	25	7.5	0.80	560.0	0.022	2555	5000	P11191-ND	2.60	1.43	1.01	.55	EEU-FC1A562
	6800	18	25	7.5	0.80	680.0	0.020	2740	5000	P10240-ND	1.97	1.39	1.05	.69	EEU-FC1A682S
	6800	16	31.5	7.5	0.80	680.0	0.018	3010	5000	P10239-ND	1.97	1.24	.94	.61	EEU-FC1A682
	8200	18	31.5	7.5	0.80	820.0	0.016	3635	5000	P11193-ND	3.71	2.37	1.67	.91	EEU-FC1A822
	8200	16	35.5	7.5	0.80	820.0	0.016	3150	5000	P11192-ND	3.27	2.09	1.47	.81	EEU-FC1A822L
	10000	18	35.5	7.5	0.80	1000.0	0.015	3680	5000	P10241-ND	2.71	1.74	1.32	.86	EEU-FC1A103
	12000	18	40	7.5	0.80	1200.0	0.014	3735	5000	P11194-ND	4.77	3.02	2.13	1.16	EEU-FC1A123
16	39	4	11	1.5	0.45	6.24	1.30	120	1000	P11195-ND	.28	.19	.14	.08	EEU-FC1C390
	47	5	11	2.0	0.50	7.52	0.80	175	1000	P11196-ND	.34	.14	.10	.06	EEU-FC1C470
	56	5	11	2.0	0.50	8.96	0.80	175	1000	P11197-ND	.34	.14	.10	.06	EEU-FC1C560
	68	5	11	2.0	0.50	10.8	0.80	175	1000	P10242-ND	.34	.14	.10	.06	EEU-FC1C680
	82	5	15	2.0	0.50	13.1	0.50	235	1000	P10243-ND	.30	.21	.15	.08	EEU-FC1C820
	100	6.3	11.2	2.5	0.50	16.0	0.35	290	1000	P11198-ND	.34	.17	.13	.07	EEU-FC1C101
	120	6.3	11.2	2.5	0.50	19.2	0.35	290	1000	P10244-ND	.28	.16	.11	.07	EEU-FC1C121
	180	6.3	15	2.5	0.50	28.8	0.25	400	1000	P10245-ND	.32	.23	.17	.10	EEU-FC1C181
	220	8	11.5	3.5	0.60	35.2	0.117	555	2000	P11199-ND	.48	.25	.18	.10	EEU-FC1C221
	270	8	11.5	3.5	0.60	43.2	0.117	555	2000	P11200-ND	.46	.25	.18	.10	EEU-FC1C271
	330	8	11.5	3.5	0.60	52.8	0.117	555	2000	P10246-ND	.40	.22	.16	.09	EEU-FC1C331
	390	10	12.5	5.0	0.60	62.4	0.09	755	3000	P11201-ND	.63	.35	.25	.14	EEU-FC1C391

(Continued)

W.V. (V)	Cap. (µF)	Dimensions (mm) ØD	L	P	Ød	Leakage Current (20°C) (2 Min.) (µA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
16	470	10	12.5	5.0	0.60	75.2	0.090	755	3000	P10248-ND	.47	.28	.21	.12	EEU-FC1C471
	470	8	15	3.5	0.60	75.2	0.085	730	2000	P10247-ND	.47	.28	.21	.12	EEU-FC1C471L
	560	10	16	5.0	0.60	89.6	0.068	1050	3000	P11202-ND	.81	.46	.33	.18	EEU-FC1C561
	680	10	16	5.0	0.60	108.8	0.068	1050	3000	P10250-ND	.51	.38	.28	.16	EEU-FC1C681
	680	8	20	3.5	0.60	108.8	0.065	995	2000	P10249-ND	.56	.33	.24	.14	EEU-FC1C681L
	820	12.5	15	5.0	0.60	131.2	0.065	1205	5000	P10252-ND	.80	.55	.40	.23	EEU-FC1C821S
	820	10	20	5.0	0.60	131.2	0.052	1220	3000	P10251-ND	.74	.45	.33	.19	EEU-FC1C821
	1000	10	20	5.0	0.60	160.0	0.052	1220	3000	P11203-ND	1.03	.55	.39	.21	EEU-FC1C102S
	1000	10	25	5.0	0.60	160.0	0.045	1440	3000	P10253-ND	.77	.51	.37	.22	EEU-FC1C102
	1200	16	15	7.5	0.80	192.0	0.043	1690	5000	P11205-ND	1.51	.94	.67	.37	EEU-FC1C122S
	1200	10	25	5.0	0.60	192.0	0.045	1440	3000	P11204-ND	1.07	.62	.44	.24	EEU-FC1C122
	1500	16	15	7.5	0.80	240.0	0.043	1690	5000	P11206-ND	1.56	.94	.67	.37	EEU-FC1C152S
	1500	12.5	20	5.0	0.60	240.0	0.038	1655	5000	P10254-ND	.90	.59	.45	.27	EEU-FC1C152
	1500	10.0	30	5.0	0.60	240.0	0.035	1815	3000	P10255-ND	.90	.62	.46	.27	EEU-FC1C152L
	1800	18	15	7.5	0.80	288.0	0.038	2000	5000	P10256-ND	1.39	.98	.74	.44	EEU-FC1C182S
	1800	12.5	25	5.0	0.60	288.0	0.03	1945	5000	P11207-ND	1.78	.97	.69	.38	EEU-FC1C182
	2200	16	20	7.5	0.80	352.0	0.029	2205	5000	P10258-ND	1.41	.92	.69	.41	EEU-FC1C222S
	2200	12.5	25	5.0	0.60	352.0	0.030	1945	5000	P10257-ND	1.14	.75	.56	.33	EEU-FC1C222
	2700	16	20	7.5	0.80	432.0	0.029	2205	5000	P11208-ND	2.03	1.20	.85	.46	EEU-FC1C272
	2700	12.5	30	5.0	0.60	432.0	0.025	2310	5000	P10259-ND	1.26	.77	.58	.34	EEU-FC1C272L
	3300	18	20	7.5	0.80	528.0	0.028	2490	5000	P10261-ND	1.61	1.11	.84	.54	EEU-FC1C332S
	3300	12.5	35	5.0	0.80	528.0	0.022	2510	5000	P10260-ND	1.35	1.00	.75	.45	EEU-FC1C332
	3900	18	20	7.5	0.80	624.0	0.028	2490	5000	P11209-ND	2.65	1.62	1.15	.63	EEU-FC1C392S
	3900	16	25	7.5	0.80	624.0	0.022	2555	5000	P10262-ND	1.60	1.10	.82	.49	EEU-FC1C392
	4700	18	25	7.5	0.80	752.0	0.020	2740	5000	P10264-ND	1.97	1.39	1.05	.69	EEU-FC1C472S
	4700	16	31.5	7.5	0.80	752.0	0.018	3010	5000	P10263-ND	1.97	1.24	.94	.61	EEU-FC1C472
	5600	18	31.5	7.5	0.80	896.0	0.016	3635	5000	P11210-ND	3.71	2.37	1.67	.91	EEU-FC1C562
	5600	16	35.5	7.5	0.80	896.0	0.016	3150	5000	P10265-ND	1.87	1.42	1.07	.70	EEU-FC1C562L
	6800	16	40	7.5	0.80	1088.0	0.015	3360	5000	P11211-ND	3.65	2.30	1.62	.89	EEU-FC1C682
	8200	18	35.5	7.5	0.80	1312.0	0.015	3680	5000	P10266-ND	2.71	1.74	1.32	.86	EEU-FC1C822
25	10	4	7	1.5	0.45	2.5	2	65	1000	P11212-ND	.30	.13	.09	.05	EEA-FC1E100
	22	5	7	2	0.45	5.5	0.95	120	1000	P11213-ND	.32	.14	.10	.06	EEA-FC1E220
	27	4	11	1.5	0.45	6.75	1.3	120	1000	P11214-ND	.28	.19	.14	.08	EEU-FC1E270
	39	5	11	2	0.50	9.75	0.80	175	1000	P11215-ND	.28	.19	.14	.08	EEU-FC1E390
	47	5	11	2.0	0.50	11.7	0.80	175	1000	P10267-ND	.28	.19	.14	.08	EEU-FC1E470
	56	5	15	2.0	0.50	14.0	0.50	235	1000	P10268-ND	.30	.21	.15	.08	EEU-FC1E560
	82	6.3	11.2	2.5	0.50	20.5	0.35	290	1000	P11216-ND	.33	.17	.13	.07	EEU-FC1E820
	100	6.3	11.2	2.5	0.50	25.0	0.35	290	1000	P10269-ND	.23	.16	.11	.07	EEU-FC1E101S
	120	6.3	15	2.5	0.50	30.0	0.25	400	1000	P10270-ND	.32	.23	.17	.10	EEU-FC1E121
	180	8	11.5	3.5	0.60	45.0	0.117	555	2000	P11217-ND	.48	.25	.18	.10	EEU-FC1E181
	220	8	11.5	3.5	0.60	55.0	0.117	555	2000	P10271-ND	.38	.22	.16	.09	EEU-FC1E221
	270	10	12.5	5	0.60	67.5	0.09	755	3000	P11218-ND	.63	.35	.25	.14	EEU-FC1E271
	330	10	12.5	5.0	0.60	82.5	0.090	755	3000	P10273-ND	.44	.28	.21	.12	EEU-FC1E331
	330	8	15	3.5	0.60	82.5	0.085	730	2000	P10272-ND	.47	.28	.21	.12	EEU-FC1E331L
	390	10	16	5	0.60	97.5	0.068	1050	3000	P11219-ND	.81	.46	.33	.18	EEU-FC1E391
	470	10	16	5.0	0.60	117.5	0.068	1050	3000	P10275-ND	.57	.38	.28	.16	EEU-FC1E471
	470	8	20	3.5	0.60	117.5	0.065	995	2000	P10274-ND	.53	.33	.24	.14	EEU-FC1E471L
	560	12.5	15	5.0	0.60	140.0	0.065	1205	5000	P10276-ND	.80	.55	.40	.23	EEU-FC1E561S
	560	10	20	5	0.60	140.0	0.052	1220	3000	P11220-ND	.93	.55	.39	.21	EEU-FC1E561
	680	10	20	5.0	0.60	170.0	0.052	1220	3000	P10277-ND	.72	.45	.33	.19	EEU-FC1E681
	820	12.5	20	5	0.60	205.0	0.038	1655	5000	P11222-ND	1.30	.77	.55	.30	EEU-FC1E821S
	820	10	25	5	0.60	205.0	0.045	1440	3000	P11221-ND	1.07	.62	.44	.24	EEU-FC1E821
	1000	16	15	7.5	0.80	250.0	0.043	1690	5000	P10279-ND	1.05	.73	.55	.32	EEU-FC1E102S
	1000	12.5	20	5.0	0.60	250.0	0.038	1655	5000	P10278-ND	.87	.59	.45	.27	EEU-FC1E102
	1000	10	30	5	0.60	250.0	0.035	1815	3000	P11223-ND	1.20	.76	.54	.30	EEU-FC1E102L
	1200	18	15	7.5	0.80	300.0	0.038	2000	5000	P10280-ND	1.39	.98	.74	.44	EEU-FC1E122S
	1200	12.5	25	5	0.60	300.0	0.03	1945	5000	P11224-ND	1.78	.97	.69	.38	EEU-FC1E122
	1500	16	20	7.5	0.80	375.0	0.029	2205	5000	P10282-ND	1.41	.92	.69	.41	EEU-FC1E152S
	1500	12.5	25	5.0	0.60	375.0	0.030	1945	5000	P10281-ND	1.24	.75	.56	.33	EEU-FC1E152
	1800	16	20	7.5	0.80	450.0	0.029	2205	5000	P11225-ND	2.03	1.20	.85	.46	EEU-FC1E182
	1800	12.5	30	5.0	0.80	450.0	0.025	2310	5000	P10283-ND	1.26	.77	.58	.34	EEU-FC1E182L
	2200	18	20	7.5	0.80	550.0	0.028	2490	5000	P10285-ND	1.61	1.11	.84	.54	EEU-FC1E222S
	2200	12.5	35	5.0	0.80	550.0	0.022	2510	5000	P10284-ND	1.35	1.00	.75	.45	EEU-FC1E222
	2700	16	25	7.5	0.80	675.0	0.022	2555	5000	P10286-ND	1.81	1.10	.82	.49	EEU-FC1E272
	3300	18	25	7.5	0.80	825.0	0.020	2740	5000	P10288-ND	1.97	1.39	1.05	.69	EEU-FC1E332S
	3300	16	31.5	7.5	0.80	825.0	0.018	3010	5000	P10287-ND	1.97	1.24	.94	.61	EEU-FC1E332
	3900	18	31.5	7.5	0.80	975.0	0.016	3635	5000	P11227-ND	3.71	2.37	1.67	.91	EEU-FC1E392
	3900	16	35.5	7.5	0.80	975.0	0.016	3150	5000	P11226-ND	3.27	2.09	1.47	.81	EEU-FC1E392L
	4700	18	35.5	7.5	0.80	1175.0	0.015	3680	5000	P10289-ND	2.71	1.74	1.32	.86	EEU-FC1E472
	5600	18	40	7.5	0.80	1400.0	0.014	3735	5000	P11228-ND	4.77	3.02	2.13	1.16	EEU-FC1E562
35	18	4	11	1.5	0.45	6.3	1.3	120	1000	P11229-ND	.28	.19	.14	.08	EEU-FC1V180
	22	5	11	2	0.50	7.7	0.80	175	1000	P11230-ND	.34	.14	.10	.06	EEU-FC1V220
	27	5	11	2	0.50	9.45	0.80	175	1000	P11231-ND	.34	.14	.10	.06	EEU-FC1V270
	33	5	11	2.0	0.50	11.5	0.80	175	1000	P10290-ND	.34	.14	.10	.06	EEU-FC1V330
	39	5	15	2.0	0.50	13.6	0.50	235	1000	P10291-ND	.30	.21	.15	.08	EEU-FC1V390
	47	6.3	11.2	2.5	0.50	16.45	0.35	290	1000	P11232-ND	.34	.17	.13	.07	EEU-FC1V470
	56	6.3	11.2	2.5	0.50	19.6	0.35	290	1000	P11233-ND	.33	.17	.13	.07	EEU-FC1V560
	68	6.3	11.2	2.5	0.50	23.8	0.35	290	1000	P10292-ND	.28	.16	.11	.07	EEU-FC1V680
	82	6.3	15	2.5	0.50	28.7	0.25	400	1000	P10293-ND	.32	.23	.17	.10	EEU-FC1V820
	100	8	11.5	3.5	0.60	35.0	0.117	555	2000	P10294-ND	.38	.22	.16	.09	EEU-FC1V101
	120	8	11.5	3.5	0.60	42.0	0.117	555	2000	P11234-ND	.46	.25	.18	.10	EEU-FC1V121
	150	8	11.5	3.5	0.60	52.5	0.117	555	2000	P10295-ND	.36	.22	.16	.09	EEU-FC1V151
	180	10	12.5	5	0.60	63.0	0.09	755	3000	P11235-ND	.63	.35	.25	.14	EEU-FC1V181
	220	10	12.5	5.0	0.60	77.0	0.090	755	3000	P10297-ND	.44	.28	.21	.12	EEU-FC1V221
	220	8	15	3.5	0.60	77.0	0.085	730	2000	P10296-ND	.48	.28	.21	.12	EEU-FC1V221L
	270	10	16	5	0.60	94.5	0.068	1050	3000	P11236-ND	.81	.46	.33	.18	EEU-FC1V271
	390	12.5	15	5.0	0.60	136.5	0.065	1205	5000	P10300-ND	.80	.55	.40	.23	EEU-FC1V391S
	330	10	16	5.0	0.60	115.5	0.068	1050	3000	P10299-ND	.61	.38	.28	.16	EEU-FC1V331
	330	8	20	3.5	0.60	115.5	0.065	995	2000	P10298-ND	.56	.33	.24	.14	EEU-FC1V331L
	390	10	20	5	0.60	136.5	0.052	1220	3000	P11237-ND	.96	.55	.39	.21	EEU-FC1V391
	470	10	20	5.0	0.60	164.5	0.052	1220	3000	P10301-ND	.72	.45	.33	.19	EEU-FC1V471
	560	12.5	20	5	0.60	196.0	0.038	1655	5000	P11239-ND	1.25	.77	.55	.30	EEU-FC1V561S
	560	10	25	5	0.60	196.0	0.045	1440	3000	P11238-ND	1.07	.62	.44	.24	EEU-FC1V561
	680	16	15	7.5	0.80	238.0	0.043	1690	5000	P10303-ND	1.01	.73	.55	.32	EEU-FC1V681S
	680	12.5	20	5.0	0.60	238.0	0.038	1655	5000	P10302-ND	.90	.59	.45	.27	EEU-FC1V681
	680	10	30	5	0.60	238.0	0.035	1815	3000	P11240-ND	1.20	.76	.54	.30	EEU-FC1V681L
	820	18	15	7.5	0.80	287.0	0.038	2000	5000	P10304-ND	1.35	.98	.74	.44	EEU-FC1V821
	820	12.5	25	5	0.60	287.0	0.03	1945	5000	P11241-ND	1.78	.97	.69	.38	EEU-FC1V821L
	1000	16	20	7.5	0.80	350.0	0.029	2205	5000	P10876-ND	1.42	.92	.69	.41	EEU-FC1V102S
	1000	12.5	25	5.0	0.60	350.0	0.030	1945	5000	P10305-ND	1.11	.75	.56	.33	EEU-FC1V102
	1200	16	20	7.5	0.80	420.0	0.029	2205	5000	P11242-ND	2.03	1.20	.85	.46	EEU-FC1V122
	1200	12.5	30	5.0	0.80	420.0	0.025	2310	5000	P10306-ND	1.26	.77	.58	.34	EEU-FC1V122L
	1500	18	20	7.5	0.80	525.0	0.028	2490	5000	P11243-ND	2.65	1.62	1.15	.63	EEU-FC1V152S
	1500	16	25	7.5	0.80	525.0	0.022	2555	5000	P10308-ND	1.81	1.10	.82	.49	EEU-FC1V152
	1500	12.5	35	5.0	0.80	525.0	0.022	2510	5000	P10307-ND	1.39	1.00	.75	.45	EEU-FC1V152L
	1800	18	20	7.5	0.80	630.0	0.028	2490	5000	P11246-ND	2.65	1.62	1.15	.63	EEU-FC1V182S
	1800	16	25	7.5	0.80	630.0	0.022	2555	5000	P11245-ND	2.39	1.43	1.01	.55	EEU-FC1V182
	1800	12.5	40	5	0.80	630.0	0.018	2655	5000	P11244-ND	2.29	1.49	1.05	.58	EEU-FC1V182L

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W.V. (V)	Cap. (µF)	Dimensions (mm)				Leakage Current (20°C) (2 Min.) (µA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Price Each				Panasonic Part No.
		ØD	L	P	Ød						1	10	100	1,000	
35	2200	18	25	7.5	0.80	770.0	0.020	2740	5000	P10310-ND	1.97	1.39	1.05	.69	EEU-FC1V222S
	2200	16	31.5	7.5	0.80	770.0	0.018	3010	5000	P10309-ND	1.78	1.24	.94	.61	EEU-FC1V222
	2700	18	31.5	7.5	0.80	945.0	0.016	3635	5000	P11248-ND	3.71	2.37	1.67	.91	EEU-FC1V272
	2700	16	35.5	7.5	0.80	945.0	0.016	3150	5000	P11247-ND	3.27	2.09	1.47	.81	EEU-FC1V272L
	3300	18	35.5	7.5	0.80	1155.0	0.015	3680	5000	P10311-ND	2.71	1.74	1.32	.86	EEU-FC1V332
	3900	18	40	7.5	0.80	1365.0	0.014	3735	5000	P11249-ND	4.77	3.02	2.13	1.16	EEU-FC1V392
50	1.0	5	11	2.0	0.50	0.5	2.40	20	1000	P10312-ND	.27	.14	.10	.06	EEU-FC1H1R0
	2.2	5	11	2.0	0.50	1.1	1.30	45	1000	P10313-ND	.27	.14	.10	.06	EEU-FC1H2R2
	3.3	5	11	2.0	0.50	1.6	1.30	65	1000	P10314-ND	.34	.14	.10	.06	EEU-FC1H3R3
	4.7	5	11	2.0	0.50	2.3	1.30	95	1000	P10315-ND	.27	.14	.10	.06	EEU-FC1H4R7
	10	4	11	1.5	0.45	5.0	2.5	90	1000	P11250-ND	.28	.19	.14	.08	EEU-FC1H100
	10	5	11	2.0	0.50	5.0	1.30	125	1000	P10316-ND	.34	.14	.10	.06	EEU-FC1H100L
	15	5	11	2.0	0.50	7.5	1.30	145	1000	P10317-ND	.34	.14	.10	.06	EEU-FC1H150
	18	5	11	2	0.50	9.0	1.3	155	1000	P11251-ND	.34	.14	.10	.06	EEU-FC1H180
	22	5	11	2.0	0.50	11.0	1.30	155	1000	P10318-ND	.34	.14	.10	.06	EEU-FC1H220
	27	5	15	2.0	0.50	13.5	0.90	215	1000	P10319-ND	.30	.21	.15	.08	EEU-FC1H270
	33	6.3	11.2	2.5	0.50	16.5	0.60	260	1000	P10320-ND	.27	.16	.11	.07	EEU-FC1H330
	47	6.3	11.2	2.5	0.50	23.5	0.60	260	1000	P10321-ND	.28	.16	.11	.07	EEU-FC1H470
	56	6.3	15	2.5	0.50	28.0	0.40	360	1000	P10322-ND	.32	.23	.17	.10	EEU-FC1H560
	68	8	11.5	3.5	0.60	34.0	0.234	485	2000	P11252-ND	.48	.25	.18	.10	EEU-FC1H680
	82	8	11.5	3.5	0.60	41.0	0.234	485	2000	P11253-ND	.43	.25	.18	.10	EEU-FC1H820
	100	10	12.5	5.0	0.60	50.0	0.162	615	3000	P10323-ND	.44	.28	.21	.12	EEU-FC1H101
	120	10	12.5	5	0.60	60.0	0.162	615	3000	P11255-ND	.63	.35	.25	.14	EEU-FC1H121
	120	8	15	3.5	0.60	60.0	0.155	635	2000	P11254-ND	.65	.35	.25	.14	EEU-FC1H121L
	150	10	16	5	0.60	75.0	0.119	850	3000	P11256-ND	.81	.46	.33	.18	EEU-FC1H151
	180	8	20	3.5	0.60	90.0	0.120	860	2000	P10324-ND	.56	.33	.24	.14	EEU-FC1H181L
	220	12.5	15	5.0	0.60	110.0	0.110	1150	5000	P10326-ND	.80	.55	.40	.23	EEU-FC1H221S
	220	10	20	5.0	0.60	110.0	0.090	1030	3000	P10325-ND	.72	.45	.33	.19	EEU-FC1H221
	270	10	25	5	0.60	135.0	0.082	1200	3000	P11257-ND	1.07	.62	.44	.24	EEU-FC1H271
	330	12.5	20	5	0.60	165.0	0.063	1480	5000	P11258-ND	1.30	.77	.55	.30	EEU-FC1H331
	390	16	15	7.5	0.80	195.0	0.080	1610	5000	P10327-ND	1.05	.73	.55	.32	EEU-FC1H391S
	390	12.5	20	5	0.60	195.0	0.063	1480	5000	P11259-ND	1.30	.77	.55	.30	EEU-FC1H391
	470	12.5	25	5.0	0.60	235.0	0.050	1832	5000	P10328-ND	1.08	.75	.56	.33	EEU-FC1H471
	470	10	30	5	0.60	235.0	0.06	1610	3000	P11260-ND	1.20	.76	.54	.30	EEU-FC1H471L
	560	18	15	7.5	0.80	280.0	0.068	1900	5000	P10329-ND	1.39	.98	.74	.44	EEU-FC1H561S
	560	12.5	25	5	0.60	280.0	0.05	1832	5000	P11261-ND	1.78	.97	.69	.38	EEU-FC1H561
	680	16	20	7.5	0.80	340.0	0.048	1835	5000	P10331-ND	1.41	.92	.69	.41	EEU-FC1H681
	680	12.5	30	5.0	0.80	340.0	0.040	2215	5000	P10330-ND	1.26	.77	.58	.34	EEU-FC1H681L
	820	18	20	7.5	0.80	410.0	0.042	2420	5000	P11262-ND	2.65	1.62	1.15	.63	EEU-FC1H821
	820	12.5	35	5.0	0.80	410.0	0.034	2285	5000	P10332-ND	1.39	1.00	.75	.45	EEU-FC1H821L
	1000	16	25	7.5	0.80	500.0	0.034	2235	5000	P10333-ND	1.75	1.10	.82	.49	EEU-FC1H102
	1000	12.5	40	5	0.80	500.0	0.03	2590	5000	P11263-ND	2.29	1.49	1.05	.58	EEU-FC1H102L
	1200	18	25	7.5	0.80	600.0	0.029	2610	5000	P11265-ND	3.23	2.05	1.45	.79	EEU-FC1H122S
	1200	16	31.5	7.5	0.80	600.0	0.028	2700	5000	P11264-ND	3.23	1.82	1.29	.70	EEU-FC1H122
	1500	16	35.5	7.5	0.80	750.0	0.025	2790	5000	P10334-ND	1.99	1.42	1.07	.70	EEU-FC1H152L
	1800	18	31.5	7.5	0.80	900.0	0.025	3000	5000	P11267-ND	3.58	2.37	1.67	.91	EEU-FC1H182
	1800	16	40	7.5	0.80	900.0	0.023	2845	5000	P11266-ND	3.51	2.30	1.62	.89	EEU-FC1H182L
	2200	18	35.5	7.5	0.80	1100.0	0.023	3100	5000	P10335-ND	2.60	1.74	1.32	.86	EEU-FC1H222
63	6.8	4	11	1.5	0.45	4.284	3.5	80	1000	P11268-ND	.28	.19	.14	.08	EEU-FC1J6R8
	12	5	11	2.0	0.50	7.5	2.00	145	1000	P10336-ND	.34	.14	.10	.06	EEU-FC1J120
	18	5	15	2.0	0.50	11.3	1.30	200	1000	P10337-ND	.30	.21	.15	.08	EEU-FC1J180
	22	6.3	11.2	2.5	0.50	13.8	1.00	240	1000	P10338-ND	.27	.16	.11	.07	EEU-FC1J220
	33	6.3	11.2	2.5	0.50	20.7	1.000	240	1000	P10764-ND	.29	.16	.11	.07	EEU-FC1J330
	39	6.3	15	2.5	0.50	24.5	0.70	330	1000	P10339-ND	.32	.23	.17	.10	EEU-FC1J390
	47	8	11.5	3.5	0.60	29.6	0.342	405	2000	P10340-ND	.38	.22	.16	.09	EEU-FC1J470
	68	8	11.5	3.5	0.60	42.8	0.342	405	2000	P10341-ND	.40	.22	.16	.09	EEU-FC1J680
	56	8	11.5	3.5	0.60	35.28	0.342	405	2000	P11269-ND	.48	.25	.18	.10	EEU-FC1J560
	82	10	12.5	5	0.60	51.66	0.256	535	3000	P11270-ND	.63	.35	.25	.14	EEU-FC1J820
	100	10	12.5	5.0	0.60	63.0	0.256	535	3000	P10343-ND	.44	.28	.21	.12	EEU-FC1J101
	100	8	15	3.5	0.60	63.0	0.230	535	2000	P10342-ND	.40	.28	.21	.12	EEU-FC1J101L
	120	10	16	5	0.60	75.6	0.194	600	3000	P11271-ND	.81	.46	.33	.18	EEU-FC1J121
	150	8	20	3.5	0.60	94.5	0.178	690	2000	P10344-ND	.56	.33	.24	.14	EEU-FC1J151
	180	12.5	15	5.0	0.60	113.4	0.150	1020	5000	P10345-ND	.80	.55	.40	.23	EEU-FC1J181S
	180	10	20	5	0.60	113.4	0.147	885	3000	P11272-ND	.99	.55	.39	.21	EEU-FC1J181
	220	12.5	20	5.0	0.60	138.6	0.085	1285	5000	P10347-ND	.90	.59	.45	.27	EEU-FC1J221S
	220	10	25	5.0	0.60	138.6	0.130	1050	3000	P10346-ND	.68	.51	.37	.22	EEU-FC1J221
	270	16	15	7.5	0.80	170.1	0.090	1410	5000	P10348-ND	1.05	.73	.55	.32	EEU-FC1J271
	330	12.5	20	5.0	0.60	207.9	0.085	1285	5000	P10349-ND	.87	.59	.45	.27	EEU-FC1J331
	330	10	30	5	0.60	207.9	0.09	1300	3000	P11273-ND	1.20	.76	.54	.30	EEU-FC1J331L
	390	18	15	7.5	0.80	245.7	0.086	1690	5000	P10350-ND	1.39	.98	.74	.44	EEU-FC1J391S
	390	12.5	25	5	0.60	245.7	0.07	1720	5000	P11274-ND	1.78	.97	.69	.38	EEU-FC1J391
	470	16	20	7.5	0.80	296.1	0.059	1765	5000	P10352-ND	1.36	.92	.69	.41	EEU-FC1J471
	470	12.5	30	5.0	0.80	296.1	0.055	2090	5000	P10351-ND	1.26	.77	.58	.34	EEU-FC1J471L
	560	16	25	7.5	0.80	352.8	0.05	2160	5000	P11275-ND	2.60	1.43	1.01	.55	EEU-FC1J561
	680	18	20	7.5	0.80	428.4	0.055	2290	5000	P11276-ND	2.65	1.62	1.15	.63	EEU-FC1J681S
	680	16	25	7.5	0.80	428.4	0.050	2160	5000	P10354-ND	1.78	1.10	.82	.49	EEU-FC1J681
	680	12.5	35	5.0	0.80	428.4	0.047	2265	5000	P10353-ND	1.35	1.00	.75	.45	EEU-FC1J681L
	820	18	25	7.5	0.80	516.6	0.043	2585	5000	P11279-ND	3.23	2.05	1.45	.79	EEU-FC1J821S
	820	16	31.5	7.5	0.80	516.6	0.043	2670	5000	P11278-ND	3.23	1.82	1.29	.70	EEU-FC1J821
	820	12.5	40	5	0.80	516.6	0.042	2560	5000	P11277-ND	2.29	1.49	1.05	.58	EEU-FC1J821L
	1000	16	31.5	7.5	0.80	630.0	0.043	2670	5000	P11280-ND	3.33	1.82	1.29	.70	EEU-FC1J102U
	1000	16	35.5	7.5	0.80	630.0	0.036	2770	5000	P10355-ND	1.99	1.42	1.07	.70	EEU-FC1J102
	1200	16	40	7.5	0.80	756.0	0.032	2950	5000	P11282-ND	3.65	2.30	1.62	.89	EEU-FC1J122L
	1200	18	31.5	7.5	0.80	756.0	0.03	2825	5000	P11281-ND	3.71	2.37	1.67	.91	EEU-FC1J122
	1500	18	35.5	7.5	0.80	945.0	0.030	3095	5000	P10356-ND	2.71	1.74	1.32	.86	EEU-FC1J152
	1800	18	40	7.5	0.80	1134.0	0.025	3205	5000	P11283-ND	4.77	3.02	2.13	1.16	EEU-FC1J182
100	1.0	5	11	2.0	0.50	1.0	7.500	15	1000	P10765-ND	.24	.14	.10	.06	EEU-FC2A1R0
	2.2	5	11	2.0	0.50	2.2	5.400	35	1000	P10766-ND	.30	.14	.10	.06	EEU-FC2A2R2
	3.3	5	11	2.0	0.50	3.3	4.400	50	1000	P10767-ND	.30	.14	.10	.06	EEU-FC2A3R3
	4.7	5	11	2.0	0.50	4.7	4.400	65	1000	P10768-ND	.30	.14	.10	.06	EEU-FC2A4R7
	10	6.3	11.2	2.5	0.50	10.0	1.800	114	1000	P10769-ND	.31	.17	.13	.07	EEU-FC2A100
	22	8	11.5	3.5	0.60	22.0	0.680	260	2000	P10770-ND	.44	.24	.18	.10	EEU-FC2A220
	33	10	12.5	5.0	0.60	33.0	0.530	306	3000	P10771-ND	.51	.31	.23	.13	EEU-FC2A330
	33	8	15	3.5	0.60	33.0	0.450	340	2000	P10772-ND	.54	.31	.23	.13	EEU-FC2A330L
	47	10	20	5.0	0.60	47.0	0.240	463	3000	P10773-ND	.82	.50	.37	.21	EEU-FC2A470
	68	10	25	5.0	0.60	68.0	0.210	599	3000	P10774-ND	.88	.56	.41	.24	EEU-FC2A680L
	100	12.5	20	5.0	0.60	100.0	0.180	671	5000	P10776-ND	1.01	.66	.49	.29	EEU-FC2A101
	100	10	30	5.0	0.60	100.0	0.150	698	3000	P10775-ND	.93	.64	.48	.29	EEU-FC2A101L
	150	18	15	7.5	0.80	150.0	0.120	917	5000	P10778-ND	1.55	1.08	.81	.48	EEU-FC2A151S
	150	12.5	25	5.0	0.60	150.0	0.110	807	5000	P10777-ND	1.15	.80	.60	.36	EEU-FC2A151
	220	16	25	7.5	0.80	220.0	0.089	1170	5000	P10780-ND	1.76	1.07	.81	.53	EEU-FC2A221
	220	12.5	35	5.0	0.80	220.0	0.087	1040	5000	P10779-ND	1.55	1.10	.83	.49	EEU-FC2A221L
	270	12.5	40	5.0	0.80	270.0	0.072	1130	5000	P10781-ND	1.55	1.11	.84	.55	EEU-FC2A271L
	330	18	25	7.5	0.80	330.0	0.070	1420	5000	P10783-ND	2.21	1.55	1.17	.76	EEU-FC2A331S
	330	16	31.5	7.5	0.80	330.0	0.062	1520	5000	P10782-ND	2.19	1.36	1.03	.67	EEU-FC2A331
	390	16	35.5	7.5	0.80	390.0	0.053	1730	5000	P10784-ND	2.21	1.56	1.18	.77	EEU-FC2A391L
	470	16	40	7.5	0.80	470.0	0.047	1920	5000	P10874-ND	2.47	1.72	1.30	.85	EEU-FC2A471
	680	18	40	7.5	0.80	680.0	0.036	2300	5000	P10875-ND	3.28	2.26	1.70	1.11	EEU-FC2A681

Panasonic® FM Series Radial Lead Aluminum Electrolytic Capacitors

FEATURES:

• Low Impedance: 40 ~ 70% lower than FC Series • High Ripple Current: 50% higher than FC Series • Long Life: 2000 ~ 7000 hours at 105°C • PVC free, Pb free • Appearance: Black body with gold markings

SPECIFICATIONS:

• **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01 CV (µA) measured after 2 minutes application of rated working voltage at 20°C

• **tan** δ (120 Hz, 20°C)

Working volt. (VDC)	6.3	10	16	25	35	50
tan δ max.	0.22	0.19	0.16	0.14	0.12	0.10

For capacitance value > 1000µF, add 0.02 per every 1000µF.

• **Impedance at High Frequency:** Refer to standard product table • **Ripple Current:** Refer to standard product table (100kHz, 105°C)

Endurance:

Test Conditions — Duration: 3000 hours (for Ø8x11.5 ~ 15mm), 4000 hours (for Ø8x20, Ø10x12.5 ~ 16mm), 5000 hours (for Ø10x20 ~ 25, Ø12.5x20, Ø16x20mm), 7000 hours (for Ø12.5x25 ~ 35, Ø16x25mm) • **Ambient Temperature:** 105°C ±2°C • **Applied Voltage:** DC voltage with maximum permissible ripple current specified at 105°C (the sum of the DC voltage and super-imposed peak AC voltage for maximum permissible ripple current should be equal to rated DC working voltage.)

Post Test Requirements at 20°C — Leakage Current: ≤ Initial specified value • **Capacitance change:** 16V ~ 50V: ±25% of initial measured value (6.3V ~ 10V: ±30%) • **tan** δ: ≤ 200% of initial specified value

Shelf Life: After storage for 1000 hours at 105 ±2°C with no voltage applied and then being stabilized at 20°C, capacitor shall meet the limits specified in Endurance. (With voltage treatment)

Frequency Correction Factor for Ripple Current

W.V. (VDC)	Frequency (Hz) / Cap. (µF)	60	120	1K	10K	100K
6.3 ~ 50	22 ~ 33	0.45	0.55	0.75	0.90	1.00
	47 ~ 330	0.60	0.70	0.85	0.95	1.00
	390 ~ 1000	0.65	0.75	0.90	0.98	1.00
	1200 ~ 6800	0.75	0.80	0.95	1.00	1.00

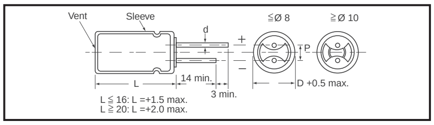

W.V. (VDC)	Cap. (µF)	Dimensions (mm)				Leakage Current (20°C) (2 min.) (µA) Maximum	Impedance (100kHz) (20°C) (Ω) Maximum	Ripple Current (1000kHz @ 105°C) (mA) rms Maximum	Life Time (hours)	Digi-Key Part No.	Pricing				Panasonic Part No.
		ØD	L	P	Ød						1	10	100	1,000	
6.3	150	5	11	2.0	0.5	9.5	0.300	280	2000	P12917-ND	.16	1.16	8.30	46.48	EEU-FM0J151
	330	6	11.2	2.5	0.5	20.8	0.130	455	2000	P12918-ND	.20	1.45	10.35	57.96	EEU-FM0J331
	560	8	11.5	3.5	0.6	35.3	0.056	950	3000	P12348-ND	.32	2.16	15.25	83.19	EEU-FM0J561
	820	8	15	3.5	0.6	51.7	0.041	1240	3000	P12352-ND	.37	2.71	19.35	108.37	EEU-FM0J821L
	1000	10	12.5	5.0	0.6	63.0	0.038	1290	4000	P12340-ND	.37	2.74	19.55	109.48	EEU-FM0J102
	1200	10	16	5.0	0.6	75.6	0.026	1790	4000	P12341-ND	.50	3.65	26.07	145.98	EEU-FM0J122
	1200	8	20	3.5	0.6	75.6	0.030	1560	4000	P12342-ND	.43	3.16	22.58	126.43	EEU-FM0J122L
	1500	10	20	5.0	0.6	94.5	0.019	2180	5000	P12343-ND	.59	4.38	31.29	175.21	EEU-FM0J152
	2200	10	25	5.0	0.6	138.6	0.018	2470	5000	P12344-ND	.61	4.50	33.07	189.96	EEU-FM0J222L
	3300	12.5	20	5.0	0.6	207.9	0.018	2600	5000	P12345-ND	.76	5.63	41.35	237.55	EEU-FM0J332
	3900	12.5	25	5.0	0.6	245.7	0.015	3190	7000	P12346-ND	.95	7.09	52.07	299.13	EEU-FM0J392
	4700	12.5	30	5.0	0.8	296.1	0.013	3630	7000	P12347-ND	.98	7.30	53.60	307.94	EEU-FM0J472L
	5600	12.5	35	5.0	0.8	352.8	0.012	3750	7000	P12349-ND	1.34	10.05	75.41	445.76	EEU-FM0J562L
	5600	16	20	7.5	0.8	352.8	0.017	3300	5000	P12350-ND	1.09	8.21	61.58	364.03	EEU-FM0J562S
	6800	16	25	7.5	0.8	428.4	0.014	3820	7000	P12351-ND	1.30	9.78	73.32	433.38	EEU-FM0J682
10	100	5	11	2.0	0.5	10.0	0.300	280	2000	P12919-ND	.16	1.16	8.30	46.48	EEU-FM1A101
	220	6	11.2	2.5	0.5	22.0	0.130	455	2000	P12920-ND	.20	1.45	10.35	57.96	EEU-FM1A221
	470	8	11.5	3.5	0.6	47.0	0.056	950	3000	P12361-ND	.32	2.16	15.25	83.19	EEU-FM1A471
	680	10	12.5	5.0	0.6	68.0	0.038	1290	4000	P12364-ND	.37	2.74	19.55	109.48	EEU-FM1A681
	680	8	15	3.5	0.6	68.0	0.041	1240	3000	P12365-ND	.37	2.71	19.35	108.37	EEU-FM1A681L
	1000	10	16	5.0	0.6	100.0	0.026	1790	4000	P12353-ND	.50	3.65	26.07	145.98	EEU-FM1A102
	1000	8	20	3.5	0.6	100.0	0.030	1560	4000	P12354-ND	.50	3.65	26.07	145.98	EEU-FM1A102L
	1200	10	20	5.0	0.6	120.0	0.019	2180	5000	P12355-ND	.59	4.38	31.29	175.21	EEU-FM1A122
	1500	10	25	5.0	0.6	150.0	0.018	2470	5000	P12356-ND	.61	4.50	33.07	189.96	EEU-FM1A152L
	2200	12.5	20	5.0	0.6	220.0	0.018	2600	5000	P12357-ND	.76	5.63	41.35	237.55	EEU-FM1A222
	3300	12.5	25	5.0	0.6	330.0	0.015	3190	7000	P12735-ND	.95	7.09	52.07	299.13	EEU-FM1A332
	3900	12.5	30	5.0	0.8	390.0	0.013	3630	7000	P12736-ND	.98	7.30	53.60	307.94	EEU-FM1A392L
	3900	16	20	7.5	0.8	390.0	0.017	3300	5000	P12737-ND	1.09	8.21	61.58	364.03	EEU-FM1A392S
	4700	12.5	35	5.0	0.8	470.0	0.012	3750	7000	P12362-ND	1.34	10.05	75.41	445.76	EEU-FM1A472L
	5600	16	25	7.5	0.8	560.0	0.014	3820	7000	P12363-ND	1.30	9.78	73.32	433.38	EEU-FM1A562
16	68	5	11	2.0	0.5	10.9	0.300	280	2000	P12921-ND	.16	1.16	8.30	46.48	EEU-FM1C680
	120	6	11.2	2.5	0.5	19.2	0.130	455	2000	P12922-ND	.20	1.45	10.35	57.96	EEU-FM1C121
	330	8	11.5	3.5	0.6	52.8	0.056	950	3000	P12372-ND	.32	2.16	15.25	83.19	EEU-FM1C331
	470	10	12.5	5.0	0.6	75.2	0.038	1290	4000	P12375-ND	.37	2.74	19.55	109.48	EEU-FM1C471
	470	8	15	3.5	0.6	75.2	0.041	1240	3000	P12376-ND	.37	2.71	19.35	108.37	EEU-FM1C471L
	680	10	16	5.0	0.6	108.8	0.026	1790	4000	P12377-ND	.50	3.65	26.07	145.98	EEU-FM1C681
	680	8	20	3.5	0.6	108.8	0.030	1560	4000	P12378-ND	.43	3.16	22.58	126.43	EEU-FM1C681L
	1000	10	20	5.0	0.6	160.0	0.019	2180	5000	P12366-ND	.59	4.38	31.29	175.21	EEU-FM1C102
	1200	10	25	5.0	0.6	192.0	0.018	2470	5000	P12367-ND	.61	4.50	33.07	189.96	EEU-FM1C122L
	1500	12.5	20	5.0	0.6	240.0	0.018	2600	5000	P12368-ND	.76	5.63	41.35	237.55	EEU-FM1C152
	2200	12.5	25	5.0	0.6	352.0	0.015	3190	7000	P12369-ND	.95	7.09	52.07	299.13	EEU-FM1C222
	2700	12.5	30	5.0	0.8	432.0	0.013	3630	7000	P12370-ND	.98	7.30	53.60	307.94	EEU-FM1C272L
	2700	16	20	7.5	0.8	432.0	0.017	3300	5000	P12371-ND	1.09	8.21	61.58	364.03	EEU-FM1C272S
	3300	12.5	35	5.0	0.8	528.0	0.012	3750	7000	P12373-ND	1.34	10.05	75.41	445.76	EEU-FM1C332L
	3900	16	25	7.5	0.8	624.0	0.014	3820	7000	P12374-ND	1.30	9.78	73.32	433.38	EEU-FM1C392
25	47	5	11	2.0	0.5	11.8	0.300	280	2000	P12923-ND	.16	1.16	8.30	46.48	EEU-FM1E470
	100	6	11.2	2.5	0.5	25.0	0.130	455	2000	P12924-ND	.20	1.44	10.28	57.54	EEU-FM1E101
	220	8	11.5	3.5	0.6	55.0	0.056	950	3000	P12383-ND	.32	2.16	15.25	83.19	EEU-FM1E221
	330	10	12.5	5.0	0.6	82.5	0.038	1290	4000	P12386-ND	.37	2.74	19.55	109.48	EEU-FM1E331
	330	8	15	3.5	0.6	82.5	0.041	1240	3000	P12387-ND	.37	2.71	19.35	108.37	EEU-FM1E331L
	470	10	16	5.0	0.6	117.5	0.026	1790	4000	P12388-ND	.50	3.65	26.07	145.98	EEU-FM1E471
	470	8	20	3.5	0.6	117.5	0.030	1560	4000	P12389-ND	.43	3.16	22.58	126.43	EEU-FM1E471L
	680	10	20	5.0	0.6	170.0	0.019	2180	5000	P12390-ND	.59	4.38	31.29	175.21	EEU-FM1E681
	820	10	25	5.0	0.6	205.0	0.018	2470	5000	P12391-ND	.61	4.50	33.07	189.96	EEU-FM1E821L
	1000	12.5	20	5.0	0.6	250.0	0.018	2600	5000	P12379-ND	.76	5.63	41.35	237.55	EEU-FM1E102
	1500	12.5	25	5.0	0.6	375.0	0.015	3190	7000	P12380-ND	.95	7.09	52.07	299.13	EEU-FM1E152
	1800	12.5	30	5.0	0.8	450.0	0.013	3630	7000	P12381-ND	.98	7.30	53.60	307.94	EEU-FM1E182L
	1800	16	20	7.5	0.8	450.0	0.017	3300	5000	P12382-ND	1.09	8.21	61.58	364.03	EEU-FM1E182S
	2200	12.5	35	5.0	0.8	550.0	0.012	3750	7000	P12384-ND	1.34	10.05	75.41	445.76	EEU-FM1E222L
	2700	16	25	7.5	0.8	675.0	0.014	3820	7000	P12385-ND	1.30	9.78	73.32	433.38	EEU-FM1E272
35	33	5	11	2.0	0.5	11.6	0.300	280	2000	P12925-ND	.16	1.16	8.30	46.48	EEU-FM1V330
	68	6	11.2	2.5	0.5	23.8	0.130	455	2000	P12926-ND	.20	1.44	10.28	57.54	EEU-FM1V680
	150	8	11.5	3.5	0.6	52.5	0.056	950	3000	P12408-ND	.32	2.16	15.25	83.19	EEU-FM1V151
	220	10	12.5	5.0	0.6	77.0	0.038	1290	4000	P12411-ND	.37	2.74	19.55	109.48	EEU-FM1V221
	220	8	15	3.5	0.6	77.0	0.041	1240	3000	P12412-ND	.37	2.71	19.35	108.37	EEU-FM1V221L
	330	10	16	5.0	0.6	115.5	0.026	1790	4000	P12413-ND	.50	3.65	26.07	145.98	EEU-FM1V331
	330	8	20	3.5	0.6	115.5	0.030	1560	4000	P12414-ND	.43	3.16	22.58	126.43	EEU-FM1V331L
	470	10	20	5.0	0.6	164.5	0.019	2180	5000	P12415-ND	.59	4.38	31.29	175.21	EEU-FM1V471
	560	10	25	5.0	0.6	196.0	0.018	2470	5000	P12416-ND	.61	4.50	33.07	189.96	EEU-FM1V561L
	680	12.5	20	5.0	0.6	238.0	0.018	2600	5000	P12417-ND	.76	5.63	41.35	237.55	EEU-FM1V681
	1000	12.5	25	5.0	0.6	350.0	0.015	3190	7000	P12405-ND	.95	7.09	52.07	299.13	EEU-FM1V102
	1200	12.5	30	5.0	0.8	420.0	0.013	3630	7000	P12406-ND	.98	7.30	53.60	307.94	EEU-FM1V122L
	1200	16	20	7.5	0.8	420.0	0.017	3300	5000	P12407-ND	1.09	8.21	61.58	364.03	EEU-FM1V122S
	1500	12.5	35	5.0	0.8	525.0	0.012	3750	7000	P12409-ND	1.34	10.05	75.41	445.76	EEU-FM1V152L
	1800	16	25	7.5	0.8	630.0	0.014	3820	7000	P12410-ND	1.30	9.78	73.32	433.38	EEU-FM1V182
50	22	5	11	2.0	0.5	11.0	0.340	250	2000	P12927-ND	.16	1.16	8.30	46.48	EEU-FM1H220
	56	6	11.2	2.5	0.5	28.0	0.140	405	2000	P12928-ND	.20	1.44	10.28	57.54	EEU-FM1H560
	100	8	11.5	3.5	0.6	50.0	0.061	870	3000	P12392-ND	.32	2.16	15.25	83.19	EEU-FM1H101
	120	8	15	3.5	0.6	60.0	0.045	1140	3000	P12394-ND	.37	2.71	19.35	108.37	EEU-FM1H121L
	150	10	12.5	5.0	0.6	75.0	0.042	1170	4000	P12395-ND	.37	2.74	19.55	109.48	EEU-FM1H151
	180	8	20	3.5	0.6	90.0	0.033	1430	4000	P12396-ND	.43	3.16	22.58	126.43	EEU-FM1H181L
	220	10	16	5.0	0.6	110.0	0.030	1650	4000	P12397-ND	.50	3.65	26.07	145.98	EEU-FM1H221
	270	10	20	5.0	0.6	135.0	0.023	1890	5000	P12398-ND	.59	4.38	31.29	175.21	EEU-FM1H271
	330	10	25	5.0	0.6	165.0	0.022	2150	5000	P12399-ND	.61	4.50	33.07	189.96	EEU-FM1H331L
	470	12.5	20	5.0	0.6	235.0	0.022	2260	5000	P12400-ND	.76	5.63	41.35	237.55	EEU-FM1H471
	560	12.5	25	5.0	0.6	280.0	0.018	2660	7000	P12401-ND	.95	7.09	52.07	299.13	EEU-FM1H561
	680	12.5	30	5.0	0.8	340.0	0.016	3160	7000	P12402-ND	.98	7.30	53.60	307.94	EEU-FM1H681L
	820	12.5	35	5.0	0.8	410.0	0.014	3270	7000	P12403-ND	1.34	10.05	75.41	445.76	EEU-FM1H821L
	820	16	20	7.5	0.8	410.0	0.019	2870	5000	P12404-ND	1.09	8.21	61.58	364.03	EEU-FM1H821S
	1000	16	25	7.5	0.8	500.0	0.016	3320	7000	P12393-ND	1.30	9.78	73.32	433.38	EEU-FM1H102

Panasonic® EB Series

Radial Lead Type Capacitor for High Ripple Long Life Applications

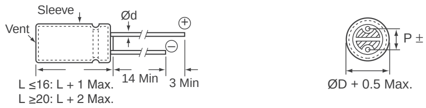

FEATURES: • High Ripple (High Frequency) • Life Time: 105°C 5,000 ~ 10,000 hours

MAIN APPLICATION: Electronic Ballast, Power supply

SPECIFICATIONS: • **Operating Temperature Range: 10 ~ 63VDC:** -40°C ~ 105°C, **160 ~ 450VDC:** -25°C ~ 105°C • **Rated Working Voltage Range:** 10 ~ 450 VDC • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current: 10 ~ 63VDC:** I ≤ 0.01 CV or 3µ A, **160 ~ 450VDC:** I ≤ 0.06 CV + 10µA, after 2 minutes application of rated working voltage at 20°C. whichever is greater. • **Endurance:** After following life test with DC voltage and 105±2°C ripple current value applied (the sum of DC and ripple peak voltage shall not exceed the rated working voltage), the capacitors shall meet the limits. **10 ~ 63VDC:** Duration: 5,000 ~ 10,000 hours. *Capacitance change:* ±30% of initial measured value *DF:* ≤ 300% of initial specified value. *DC Leakage Current:* ≤ initial specified value. **160 ~ 450VDC:** Duration 5,000 hours. *Capacitance change:* ±20% of initial measured value. *DF:* ≤ 200% of initial specified value. *DC Leakage Current:* ≤ initial specified value • **Shelf Life:** After storage for 1,000 hours at 105±2°C with no voltage applied and then being stabilized at ±20°C, capacitors shall meet the limits specified in "Endurance" (with voltage treatment).

(10 ~ 63 VDC) **Ripple Current Frequency Multiplier**

Capacitance (µF)	Frequency (Hz) 60	120	1k	10k	100k
0.47 ~ 10	0.75	1	1.40	1.55	1.65
22 ~ 470	0.85	1	1.20	1.25	1.30
1000 ~ 3300	0.95	1	1.05	1.10	1.15

W.V. (VDC)	Frequency (Hz) 120	1k	10k ~ 30k	30k ~ 100k
160 ~ 250	0.55	0.85	0.90	1.00
350 ~ 450	0.50	0.80	0.90	1.00

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	Dissipation Factor (120Hz/20°C) Max.	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
						øD	L	P	ød		1	10	100	1,000	5,000	10,000	
10	100	10	0.30	105 @ 120kHz	7000	5	15	2.0	0.5	P13114-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1A101
	100	10	0.30	66 @ 120kHz	5000	5	11	2.0	0.5	P13455-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1A101S
	220	22	0.30	152 @ 120kHz	7000	6.3	15	2.5	0.5	P13116-ND	.26	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1A221
	220	22	0.30	100 @ 120kHz	5000	6.3	11.2	2.5	0.5	P13456-ND ***NEW!***	.14	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EBIA221S
	470	47	0.30	278 @ 120kHz	10000	8	15	3.5	0.6	P13118-ND	.36	2.54	19.86	126.75	118.30/M	109.85/M	EEU-EB1A471
	470	47	0.30	180 @ 120kHz	5000	8	11.5	3.5	0.6	P13457-ND ***NEW!***	.21	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1A471S
	2200	220	0.32	540 @ 120kHz	10000	12.5	20	5.0	0.6	P13115-ND	.80	5.68	44.51	284.10	265.16/M	246.22/M	EEU-EB1A222
	3300	330	0.34	802 @ 120kHz	10000	12.5	25	5.0	0.6	P13117-ND	.96	6.78	53.09	338.85	316.26/M	293.67/M	EEU-EB1A332
16	1000	160	0.25	430 @ 120kHz	10000	10	20	5.0	0.6	P13119-ND	.56	3.93	30.81	196.65	183.54/M	170.43/M	EEU-EB1C102
	2200	352	0.27	706 @ 120kHz	10000	12.5	25	5.0	0.6	P13120-ND	.96	6.78	53.09	338.85	316.26/M	293.67/M	EEU-EB1C222
25	47	11.75	0.22	78 @ 120kHz	7000	5	15	2.0	0.5	P13125-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1E470
	47	11.75	0.22	55 @ 120kHz	5000	5	11	2.0	0.5	P13458-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1E470S
	100	25	0.22	135 @ 120kHz	7000	6.3	15	2.5	0.5	P13122-ND	.26	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1E101
	100	25	0.22	95 @ 120kHz	5000	6.3	11.2	2.5	0.5	P13476-ND ***NEW!***	.14	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1E101S
	220	55	0.22	125 @ 120kHz	5000	8	11.5	3.5	0.6	P13477-ND ***NEW!***	.21	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1E221S
	330	82.5	0.22	255 @ 120kHz	10000	8	15	3.5	0.6	P13123-ND	.36	2.54	19.86	126.75	118.30/M	109.85/M	EEU-EB1E331
	470	117.5	0.22	321 @ 120kHz	10000	10	16	5.0	0.6	P13124-ND	.48	3.41	26.72	170.55	159.18/M	147.81/M	EEU-EB1E471
	1000	250	0.22	498 @ 120kHz	10000	12.5	20	5.0	0.6	P13121-ND	.80	5.68	44.51	284.10	265.16/M	246.22/M	EEU-EB1E102
35	33	11.55	0.18	66 @ 120kHz	7000	5	15	2.0	0.5	P13129-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1V330
	33	11.55	0.18	46 @ 120kHz	5000	5	11	2.0	0.5	P13475-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1V330S
	220	77	0.18	197 @ 120kHz	10000	8	15	3.5	0.6	P13127-ND	.36	2.54	19.86	126.75	118.30/M	109.85/M	EEU-EB1V221
	330	115.5	0.18	278 @ 120kHz	10000	10	16	5.0	0.6	P13128-ND	.48	3.41	26.72	170.55	159.18/M	147.81/M	EEU-EB1V331
	470	164.5	0.18	349 @ 120kHz	10000	10	20	5.0	0.6	P13130-ND	.56	3.93	30.81	196.65	183.54/M	170.43/M	EEU-EB1V471
	1000	350	0.18	586 @ 120kHz	10000	12.5	25	5.0	0.6	P13126-ND	.96	6.78	53.09	338.85	316.26/M	293.67/M	EEU-EB1V102
50	.47	3	0.15	4 @ 120kHz	5000	5	11	2.0	0.5	P13466-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1HR47S
	1.0	3	0.15	8 @ 120kHz	5000	5	11	2.0	0.5	P13460-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1H1R0S
	2.2	3	0.15	15 @ 120kHz	5000	5	11	2.0	0.5	P13462-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1H2R2S
	3.3	3	0.15	18 @ 120kHz	5000	5	11	2.0	0.5	P13463-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1H3R3S
	4.7	3	0.15	18 @ 120kHz	5000	5	11	2.0	0.5	P13465-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1HR47S
	10	5	0.15	27 @ 120kHz	5000	5	11	2.0	0.5	P13478-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1H100S
	22	11	0.15	55 @ 120kHz	7000	5	15	2.0	0.5	P13132-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1H220
	22	11	0.15	39 @ 120kHz	5000	5	11	2.0	0.5	P13461-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1H220S
	47	23.5	0.15	87 @ 120kHz	7000	6.3	15	2.5	0.5	P13135-ND	.26	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1H470
	47	23.5	0.15	61 @ 120kHz	5000	6.3	11.2	2.5	0.5	P13464-ND ***NEW!***	.14	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1H470S
	100	50	0.15	99 @ 120kHz	5000	8	11.5	3.5	0.6	P13459-ND ***NEW!***	.21	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1H101S
	220	110	0.15	234 @ 120kHz	10000	10	16	5.0	0.6	P13131-ND	.48	3.41	26.72	170.55	159.18/M	147.81/M	EEU-EB1H221
	330	165	0.15	293 @ 120kHz	10000	10	20	5.0	0.6	P13133-ND	.56	3.93	30.81	196.65	183.54/M	170.43/M	EEU-EB1H331
	470	235	0.15	370 @ 120kHz	10000	12.5	20	5.0	0.6	P13134-ND	.80	5.68	44.51	284.10	265.16/M	246.22/M	EEU-EB1H471
63	0.47	3	0.12	6 @ 120kHz	7000	5	15	2.0	0.5	P13136-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1JR47
	0.47	3	0.12	4.5 @ 120kHz	5000	5	11	2.0	0.5	P13474-ND ***NEW!***	.11	.96	7.54	48.15	41.73/M	41.73/M	EEU-EB1JR47S
	1.0	3	0.12	12 @ 120kHz	7000	5	15	2.0	0.5	P13139-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J1R0
	1.0	3	0.12	9 @ 120kHz	5000	5	11	2.0	0.5	P13468-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1J1R0S
	2.2	3	0.12	22 @ 120kHz	7000	5	15	2.0	0.5	P13140-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J2R2
	2.2	3	0.12	16.5 @ 120kHz	5000	5	11	2.0	0.5	P13469-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1J2R2S
	3.3	3	0.12	30 @ 120kHz	7000	5	15	2.0	0.5	P13143-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J3R3
	3.3	3	0.12	20 @ 120kHz	5000	5	11	2.0	0.5	P13471-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1J3R3S
	4.7	3	0.12	30 @ 120kHz	7000	5	15	2.0	0.5	P13146-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J4R7
	4.7	3	0.12	23 @ 120kHz	5000	5	11	2.0	0.5	P13473-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1J4R7S
	10	6.3	0.12	46 @ 120kHz	7000	5	15	2.0	0.5	P13138-ND	.17	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J100
	10	6.3	0.12	30 @ 120kHz	5000	5	11	2.0	0.5	P13467-ND ***NEW!***	.11	.96	7.54	48.15	44.94/M	41.73/M	EEU-EB1J100S
	22	13.86	0.12	55 @ 120kHz	7000	6.3	15	2.5	0.5	P13142-ND	.26	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1J220
	33	20.79	0.12	71 @ 120kHz	7000	6.3	15	2.5	0.5	P13145-ND	.26	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1J330
	33	20.79	0.12	50 @ 120kHz	5000	6.3	11.2	2.5	0.5	P13470-ND ***NEW!***	.14	1.22	9.59	61.20	57.12/M	53.04/M	EEU-EB1J330S
	47	29.61	0.12	94 @ 120kHz	10000	8	15	3.5	0.6	P13148-ND	.36	2.54	19.86	126.75	118.30/M	109.85/M	EEU-EB1J470
	47	29.61	0.12	80 @ 120kHz	5000	8	11.5	3.5	0.6	P13472-ND ***NEW!***	.21	1.84	14.38	91.80	85.68/M	79.56/M	EEU-EB1J470S
	100	63	0.12	180 @ 120kHz	10000	8	15	3.5	0.6	P13137-ND	.36	2.54	19.86	126.75	118.30/M	109.85/M	EEU-EB1J101
	220	138.6	0.12	292 @ 120kHz	10000	10	20	5.0	0.6	P13141-ND	.56	3.93	30.81	196.65	183.54/M	170.43/M	EEU-EB1J221
	330	207.9	0.12	381 @ 120kHz	10000	12.5	20	5.0	0.6	P13144-ND	.80	5.68	44.51	284.10	265.16/M	246.22/M	EEU-EB1J331
	470	296.1	0.12	454 @ 120kHz	10000	12.5	25	5.0	0.6	P13147-ND	.96	6.78	53.09	338.85	316.26/M	293.67/M	EEU-EB1J471
160	22	221.2	0.15	470 @ 100kHz	5000	10	20	5.0	0.6	P5900-ND	.67	3.93	30.81	196.00	185.00/M	170.00/M	EEU-EB2C220
	33	326.8	0.15	470 @ 100kHz	5000	10	20	5.0	0.6	P5901-ND	.67	3.93	30.81	196.00	185.00/M	170.00/M	EEU-EB2C330
	47	461.2	0.15	600 @ 100kHz	5000	12.5	20	5.0	0.6	P5902-ND	.85	5.90	46.22	294.00	277.00/M	255.00/M	EEU-EB2C470
	68	662.8	0.15	750 @ 100kHz	5000	12.5	25	5.0	0.6	P5903-ND	1.09	6.78	53.09	337.00	318.00/M	293.00/M	EEU-EB2C680
	68	662.8	0.15	750 @ 100kHz	5000	16	20	7.5	0.8	P5904-ND	1.31	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2C680S
	100	970.0	0.15	1060 @ 100kHz	5000	16	25	7.5	0.8	P5905-ND	1.31	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2C101
	100	970.0	0.15	1060 @ 100kHz	5000	18	20	7.5	0.8	P5906-ND	1.53	13.11	102.72	652.00	616.00/M	568.00/M	EEU-EB2C101S
	150	1450.0	0.15	1280 @ 100kHz	5000	16	31.5	7.5	0.8	P5907-ND	1.67	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2C151
	150	1450.0	0.15	1280 @ 100kHz	5000	18	25	7.5	0.8	P5908-ND	2.20	14.43	113.01	718.00	677.00/M	625.00/M	EEU-EB2C151S
	220	2122.0	0.15	1280 @ 100kHz	5000	16	31.5	7.5	0.8	P5909-ND	2.04	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2C221
	220	2122.0	0.15	1280 @ 100kHz	5000	18	25	7.5	0.8	P5910-ND	2.20	14.43	113.01	718.00	677.00/M	625.00/M	EEU-EB2C221S
	330	3178.0	0.15	1690 @ 100kHz	5000	18	31.5	7.5	0.8	P5911-ND	2.04	17.49	136.98	870.00	821.00/M	757.00/M	EEU-EB2C331
200	22	274.0	0.15	470 @ 100kHz	5000	10	20	5.0	0.6	P5912-ND	.64	3.93	30.81	196.00	185.00/M	170.00/M	EEU-EB2D220
	33	406.0	0.15	600 @ 100kHz	5000	12.5	20	5.0	0.6	P5913-ND	.94	5.90	46.22	294.00	277.00/M	255.00/M	EEU-EB2D330
	47	574.0	0.15	600 @ 100kHz	5000	12.5	20	5.0	0.6	P5914-ND	.97	6.12	47.94	304.00	287.00/M	265.00/M	EEU-EB2D470
	68	826.0	0.15	750 @ 100kHz	5000	12.5	25	5.0	0.6	P5915-ND	1.33	7.87	61.64	391.00	369.00/M	341.00/M	EEU-EB2D680
	68	826.0	0.15	750 @ 100kHz	5000	16	20	7.5	0.8	P5916-ND	1.72	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2D680S
	100	1210.0	0.15	1060 @ 100kHz	5000	16	25	7.5	0.8	P5917-ND	1.72	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2D101
	100	1210.0	0.15	1060 @ 100kHz	5000	18	20	7.5	0.8	P5918-ND	1.93	13.11	102.72	652.00	616.00/M	568.00/M	EEU-EB2D101S
	150	1810.0	0.15	1280 @ 100kHz	5000	16	31.5	7.5	0.8	P5919-ND	2.03	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2D151
	150	1810.0	0.15	1280 @ 100kHz	5000	18	25	7.5	0.8	P5920-ND	2.24	14.43	113.01	718.00	677.00/M	625.00/M	EEU-EB2D151S
	220	2650.0	0.15	1690 @ 100kHz	5000	18	31.5	7.5	0.8	P5921-ND	2.04	17.49	136.98	870.00	821.00/M	757.00/M	EEU-EB2D221
250	22	340.0	0.15	560 @ 100kHz	5000	12.5	20	5.0	0.6	P5922-ND	.94	6.34	49.66	315.00	298.00/M	274.00/M	EEU-EB2E220
	33	505.0	0.15	560 @ 100kHz	5000	12.5	20	5.0	0.6	P5923-ND	.94	6.34	49.66	315.00	298.00/M	274.00/M	EEU-EB2E330
	47	715.0	0.15	710 @ 100kHz	5000	12.5	25	5.0	0.6	P5924-ND	1.22	7.87	61.64	391.00	369.00/M	341.00/M	EEU-EB2E470

(Continued)

WV (VDC)	Cap. (µF)	D.C.L. (20°C/2mm) (µA) Max.	Dissipation Factor (120Hz/20°C) Max.	Ripple Current (105°C) (mA) rms Max.	Life Time (hours)	Dimensions (mm) øD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
250	47	715.0	0.15	710 @ 100kHz	5000	16	20	7.5	0.8	P5925-ND	1.65	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2E470S
	68	1030.0	0.15	990 @ 100kHz	5000	16	25	7.5	0.8	P5926-ND	1.65	10.05	78.75	500.00	472.00/M	435.00/M	EEU-EB2E680
	68	1030.0	0.15	990 @ 100kHz	5000	18	20	7.5	0.8	P5927-ND	1.85	13.11	102.72	652.00	616.00/M	568.00/M	EEU-EB2E680S
	100	1510.0	0.15	1200 @ 100kHz	5000	16	31.5	7.5	0.8	P5928-ND	2.03	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2E101
	100	1510.0	0.15	1200 @ 100kHz	5000	18	25	7.5	0.8	P5929-ND	2.02	14.43	113.01	718.00	677.00/M	625.00/M	EEU-EB2E101S
	150	2260.0	0.15	1470 @ 100kHz	5000	18	31.5	7.5	0.8	P5930-ND	2.04	17.49	136.98	870.00	821.00/M	757.00/M	EEU-EB2E151
350	10	220.0	0.20	270 @ 100kHz	5000	10	20	5.0	0.6	P5931-ND	.71	4.59	35.96	228.00	215.00/M	199.00/M	EEU-EB2V100
	22	472.0	0.20	350 @ 100kHz	5000	12.5	20	5.0	0.6	P5932-ND	.97	6.99	54.78	348.00	328.00/M	303.00/M	EEU-EB2V220
	33	703.0	0.20	480 @ 100kHz	5000	16	20	7.5	0.8	P5933-ND	1.56	10.93	85.61	544.00	513.00/M	473.00/M	EEU-EB2V330S
	47	997.0	0.20	640 @ 100kHz	5000	16	25	7.5	0.8	P5934-ND	1.87	11.80	92.45	587.00	554.00/M	511.00/M	EEU-EB2V470
	47	997.0	0.20	640 @ 100kHz	5000	18	20	7.5	0.8	P5935-ND	2.03	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2V470S
	68	1438.0	0.20	780 @ 100kHz	5000	16	31.5	7.5	0.8	P5936-ND	2.49	17.05	133.55	848.00	800.00/M	738.00/M	EEU-EB2V680
	68	1438.0	0.20	780 @ 100kHz	5000	18	25	7.5	0.8	P5937-ND	2.49	17.05	133.55	848.00	800.00/M	738.00/M	EEU-EB2V680S
	100	2110.0	0.20	970 @ 100kHz	5000	18	31.5	7.5	0.8	P5938-ND	2.35	20.11	157.52	1000.00	944.00/M	871.00/M	EEU-EB2V101
400	10	250.0	0.24	250 @ 100kHz	5000	10	20	5.0	0.6	P5939-ND	.78	4.59	35.96	228.00	215.00/M	199.00/M	EEU-EB2G100
	22	538.0	0.24	410 @ 100kHz	5000	12.5	25	5.0	0.6	P5940-ND	1.22	8.74	68.48	435.00	410.00/M	378.00/M	EEU-EB2G220
	22	538.0	0.24	410 @ 100kHz	5000	16	20	7.5	0.8	P5941-ND	1.43	10.93	85.61	544.00	513.00/M	473.00/M	EEU-EB2G220S
	33	802.0	0.24	600 @ 100kHz	5000	16	25	7.5	0.8	P5942-ND	1.87	11.80	92.45	587.00	554.00/M	511.00/M	EEU-EB2G330
	33	802.0	0.24	600 @ 100kHz	5000	18	20	7.5	0.8	P5943-ND	2.03	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2G330S
	47	1138.0	0.24	730 @ 100kHz	5000	16	31.5	7.5	0.8	P5944-ND	2.70	17.05	133.55	848.00	800.00/M	738.00/M	EEU-EB2G470
	47	1138.0	0.24	730 @ 100kHz	5000	18	25	7.5	0.8	P5945-ND	2.70	17.05	133.55	848.00	800.00/M	738.00/M	EEU-EB2G470S
450	10	280.0	0.24	310 @ 100kHz	5000	12.5	20	5.0	0.6	P5946-ND	1.07	6.99	54.78	348.00	328.00/M	303.00/M	EEU-EB2W100
	22	604.0	0.24	560 @ 100kHz	5000	16	25	7.5	0.8	P5947-ND	1.79	11.80	92.45	587.00	554.00/M	511.00/M	EEU-EB2W220
	22	604.0	0.24	560 @ 100kHz	5000	18	20	7.5	0.8	P5948-ND	1.88	13.99	109.58	696.00	657.00/M	606.00/M	EEU-EB2W220S
	33	901.0	0.24	680 @ 100kHz	5000	16	31.5	7.5	0.8	P5949-ND	2.29	17.05	133.55	848.00	800.00/M	738.00/M	EEU-EB2W330
	33	901.0	0.24	680 @ 100kHz	5000	18	25	7.5	0.8	P5950-ND	2.57	15.74	123.28	783.00	739.00/M	681.00/M	EEU-EB2W330S
	47	1279.0	0.24	850 @ 100kHz	5000	18	31.5	7.5	0.8	P5951-ND	2.35	20.11	157.52	1000.00	944.00/M	871.00/M	EEU-EB2W470

KS Series

Features: • Low profile 5mm height for Ø3 ~ Ø8 mm

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Rated Working Voltage Range:** 4 ~ 50VDC • **Nominal Capacitance Range:** 0.1 ~ 330µF • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3 (µA), whichever is greater measured after 2 minutes application of rated working voltage at 20°C

Endurance: • **Test Conditions** — **Duration:** 1000 hours • **Ambient Temperature:** 85°C • **Applied Voltage:** Rated DC working voltage • **Post Test Requirements at 20°C** — **Leakage Current:** ≤ Initial specified value • **Capacitance Change:** ±20% of initial measured value (4V: ±30%) • **tan δ:** ≤ 200% of initial specified value

Shelf Life: • **Test Conditions** — **Duration:** 1000 hours • **Ambient Temperature:** 85°C • **Applied voltage:** (None) • **Post Test Requirements at 20°C** — **Leakage Current:** ≤ Initial specified value • **Capacitance Change:** ±20% of initial measured value (4V: ±30%) • **tan δ:** ≤ 200% of initial specified value **Panasonic KS Cross Reference:** Nippon Chemi-Con: SRE, Nichicon: MA, Elna: RC3, Rubycon: MS5, Marcon: LSM

Recommended Applications: AV (TV, Audio, Video), Office, Home Appliance

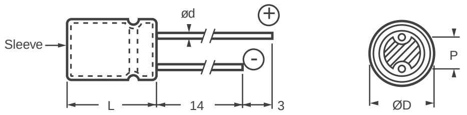

Body Diameter D	3	4	5	6.3	8
Lead Diameter d	0.4	0.45	0.45	0.45	0.45
Lead Space P	1.0	1.5	2.0	2.5	2.5

Tan δ: (120Hz, 20°C)

Working Voltage (V)	4	6.3	10	16	25	35	50
tan δ Maximum	0.35	0.24	0.20	0.16	0.14	0.12	0.10

Characteristics at Low Temperature:
Impedance ratio maximum at 120Hz

Working Voltage (V)	4	6.3	10	16	25	35	50
-25°C/25°C	7	4	3	2	2	2	2
-40°C/20°C	15	8	6	4	4	3	3

WV (VDC)	Cap. (µF)	D.C.L. (+20°C/2 min.)	tan δ (120Hz/+20°C)	Ripple Current	Dim. (mm) ØD	L	P	Digi-Key Part No.	Pricing 10	100	1,000	Panasonic Part No.
4	22	3.0	0.35	19	3	5	1.0	P950-ND	1.38	10.81	59.00	ECE-A0GKK220
	33	3.0	0.35	26	4	5	1.5	P951-ND	.77	6.02	33.00	ECE-A0GKS330
	47	3.0	0.35	34	4	5	1.5	P952-ND	.77	6.02	33.00	ECE-A0GKS470
	100	4.0	0.35	61	5	5	2.0	P953-ND	.84	6.60	36.00	ECE-A0GKS101
	220	8.8	0.35	82	6.3	5	2.5	P954-ND	1.02	8.00	44.00	ECE-A0GKS221
6.3	22	3.0	0.24	29	4	5	1.5	P955-ND	.77	6.02	33.00	ECE-A0JKS220
	33	3.0	0.24	38	5	5	2.0	P956-ND	.84	6.60	36.00	ECE-A0JKS330
	47	3.0	0.24	46	5	5	2.0	P957-ND	.84	6.60	36.00	ECE-A0JKS470
	100	6.3	0.24	71	6.3	5	2.5	P958-ND	1.02	8.00	44.00	ECE-A0JKS101
	330	20.7	0.24	130	8	5	2.5	P959-ND	1.84	14.44	79.00	ECE-A0JKS331
10	22	3.0	0.20	35	5	5	2.0	P960-ND	.84	6.60	36.00	ECE-A1AKS220
	33	3.3	0.20	43	5	5	2.0	P961-ND	.84	6.60	36.00	ECE-A1AKS330
	47	4.7	0.20	65	6.3	5	2.5	P962-ND	1.02	8.00	44.00	ECE-A1AKS470
	100	10.0	0.20	80	6.3	5	2.5	P963-ND	1.02	8.00	44.00	ECE-A1AKS101
	220	22.0	0.20	120	8	5	2.5	P964-ND	1.84	14.44	79.00	ECE-A1AKS221
16	10	3.0	0.16	20	3	5	1.0	P965-ND	1.38	10.81	59.00	ECE-A1CKK100
	10	3.0	0.16	28	4	5	1.5	P966-ND	.77	6.02	33.00	ECE-A1CKS100
	22	3.5	0.16	39	5	5	2.0	P967-ND	.84	6.60	36.00	ECE-A1CKS220
	33	5.2	0.16	60	6.3	5	2.5	P968-ND	1.02	8.00	44.00	ECE-A1CKS330
	47	7.5	0.16	70	6.3	5	2.5	P969-ND	1.02	8.00	44.00	ECE-A1CKS470
	100	16.0	0.16	91	8	5	2.5	P970-ND	1.84	14.44	79.00	ECE-A1CKS101
25	2.2	3.0	0.14	8	3	5	1.0	P971-ND	1.38	10.81	59.00	ECE-A1EKK2R2
	3.3	3.0	0.14	10	3	5	1.0	P972-ND	1.38	10.81	59.00	ECE-A1EKK3R3
	4.7	3.0	0.14	12	3	5	1.0	P973-ND	1.38	10.81	59.00	ECE-A1EKK4R7
	4.7	3.0	0.14	22	4	5	1.5	P974-ND	.77	6.02	33.00	ECE-A1EKS4R7
	10	3.0	0.14	28	5	5	2.0	P975-ND	.84	6.60	36.00	ECE-A1EKS100
	22	5.5	0.14	55	6.3	5	2.5	P976-ND	1.02	8.00	44.00	ECE-A1EKS220
	33	8.2	0.14	65	6.3	5	2.5	P977-ND	1.02	8.00	44.00	ECE-A1EKS330
35	3.3	3.0	0.12	16	4	5	1.5	P978-ND	.77	6.02	33.00	ECE-A1VKS3R3
	4.7	3.0	0.12	22	4	5	1.5	P979-ND	.77	6.02	33.00	ECE-A1VKS4R7
	10	3.5	0.12	30	5	5	2.0	P980-ND	.84	6.60	36.00	ECE-A1VKS100
	22	7.7	0.12	60	6.3	5	2.5	P981-ND	1.02	8.00	44.00	ECE-A1VKS220
	33	11.6	0.12	65	8	5	2.5	P982-ND	1.84	14.44	79.00	ECE-A1VKS330
	47	16.4	0.12	85	8	5	2.5	P983-ND	1.84	14.44	79.00	ECE-A1VKS470
50	0.1	3.0	0.10	1	4	5	1.5	P984-ND	.77	6.02	33.00	ECE-A1HKS0R1
	0.1	3.0	0.10	1	3	5	1.0	P985-ND	1.38	10.81	59.00	ECE-A1HKK0R1
	0.22	3.0	0.10	2	4	5	1.5	P986-ND	.77	6.02	33.00	ECE-A1HKSR22
	0.22	3.0	0.10	2	3	5	1.0	P987-ND	1.38	10.81	59.00	ECE-A1HKKR22
	0.33	3.0	0.10	3	4	5	1.5	P988-ND	.77	6.02	33.00	ECE-A1HKSR33
	0.33	3.0	0.10	3	3	5	1.0	P989-ND	1.38	10.81	59.00	ECE-A1HKKR33
	0.47	3.0	0.10	5	4	5	1.5	P990-ND	.77	6.02	33.00	ECE-A1HKSR47
	0.47	3.0	0.10	5	3	5	1.0	P991-ND	1.38	10.81	59.00	ECE-A1HKKR47
	1.0	3.0	0.10	8	3	5	1.0	P992-ND	1.38	10.81	59.00	ECE-A1HKK010
	1.0	3.0	0.10	10	4	5	1.5	P993-ND	.77	6.02	33.00	ECE-A1HKS010
	2.2	3.0	0.10	16	4	5	1.5	P994-ND	.77	6.02	33.00	ECE-A1HKS2R2
	3.3	3.0	0.10	16	4	5	1.5	P995-ND	.77	6.02	33.00	ECE-A1HKS3R3
	4.7	3.0	0.10	23	5	5	2.0	P996-ND	.84	6.60	36.00	ECE-A1HKS4R7
	10	5.0	0.10	35	6.3	5	2.5	P997-ND	1.02	8.00	44.00	ECE-A1HKS100
	22	11.0	0.10	60	8	5	2.5	P998-ND	1.84	14.44	79.00	ECE-A1HKS220

Panasonic®

KA-Series Miniature Aluminum Electrolytic Capacitors

Rating WV		Dimensions (mm)			Digi-Key	Pricing						Panasonic
DC	µF	D	L	P	Part No.	1	10	100	500	1,000	5,000	Part No.
6.3	22	4.0	7.0	1.5	P800-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A0JKA220
	33	4.0	7.0	1.5	P801-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A0JKA330
	47	4.0	7.0	1.5	P802-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A0JKA470
	100	5.0	7.0	2.0	P803-ND*	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A0JKA101
	220	6.3	7.0	2.5	P829-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A0JKA221
	330	8.0	7.0	3.5	P830-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A0JKA331
10	22	4.0	7.0	1.5	P804-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1AKA220
	33	4.0	7.0	1.5	P805-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1AKA330
	47	5.0	7.0	2.0	P806-ND	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1AKA470
	100	6.3	7.0	2.5	P831-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1AKA101
	220	8.0	7.0	3.5	P832-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A1AKA221
16	10	4.0	7.0	1.5	P807-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1CKA100
	22	4.0	7.0	1.5	P808-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1CKA220
	33	5.0	7.0	2.0	P809-ND*	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1CKA330
	47	5.0	7.0	2.0	P810-ND*	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1CKA470
	100	6.3	7.0	2.5	P833-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1CKA101
25	4.7	4.0	7.0	1.5	P812-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1EKA4R7
	10	4.0	7.0	1.5	P813-ND	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1EKA100
	22	5.0	7.0	2.0	P814-ND	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1EKA220
	33	6.3	7.0	2.5	P815-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1EKA330
	47	6.3	7.0	2.5	P834-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1EKA470
35	4.7	4.0	7.0	1.5	P817-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1VKA4R7
	10	5.0	7.0	2.0	P818-ND*	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1VKA100
	22	6.3	7.0	2.5	P819-ND*	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1VKA220
	33	6.3	7.0	2.5	P835-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1VKA330
	47	8.0	7.0	3.5	P836-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A1VKA470
50	0.1	4.0	7.0	1.5	P820-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA0R1
	0.22	4.0	7.0	1.5	P821-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKAR22
	0.33	4.0	7.0	1.5	P822-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKAR33
	0.47	4.0	7.0	1.5	P823-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKAR47
	1.0	4.0	7.0	1.5	P824-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA010
	2.2	4.0	7.0	1.5	P825-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA2R2
	3.3	4.0	7.0	1.5	P826-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA3R3
	4.7	4.0	7.0	1.5	P827-ND*	.14	.91	6.11	20.69	32.00	27.00/M	ECE-A1HKA4R7
	10	5.0	7.0	2.0	P828-ND*	.16	1.01	6.79	23.00	35.00	30.00/M	ECE-A1HKA100
	22	6.3	7.0	2.5	P837-ND	.15	1.02	7.21	24.89	39.00	34.00/M	ECE-A1HKA220
	33	8.0	7.0	3.5	P838-ND	.23	1.68	12.03	43.29	67.00	63.00/M	ECE-A1HKA330

* **P835-KIT-ND** ***Digi-Key® KA-Series Capacitors Kit*** 10 each of parts indicated. (160 total pieces) Notebook style storage case.......................... **$29.95**

The KA-Series is a tantalum substitute for many applications.

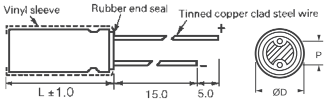

- **Operating Temperature Range:** –40°C ~ 85°C.
- **Rated DC Voltage Range:** 6.3 ~ 63VDC.
- **Rated Capacitance Range:** 1.0 ~ 100µF.
- **Capacitance Tolerance:** ±20%.
- **tan δ:** Maximum at 120Hz.

W.V.	6.3	10	16	25	35	50
tan	0.24	0.2	0.16	0.14	0.12	0.10

- **DC Leakage Current, Maximum:** After 5 minutes application of the DC working voltage, I=0.01 C V or 3µA, whichever is greater.
- **Load Life:** 1,000 hours application of the rated DC working voltage at 85°C, the capacitor shall meet the following limits:

Capacitance Change	Within ±20% of the initial measured value
tan δ	Less than 200% of the initial specified value
DC Leakage Current	Less than the initial specified value

- **Stability at Low and High Temperature:** Impedance ratio at 120Hz –25/20°C, –40/20°C.

W.V.	6.3	10	16	25	35	50
–25/20°C	4	3	2	2	2	2
–40/20°C	8	6	4	4	3	3

- **Shelf Life:** After 1,000 hours storage without load at 85°C, the capacitor shall meet the above "Load life."
- **Others shall be in accordance with JIS-C-5141 (1976).**

PANASONIC K CROSS REFERENCES:

Elna: RC2, **IC:** RSS, **Marcon:** SSM, **Nichicon:** SR/SA, **Rubycon:** MS7, **UCC:** SRG/SRA

KG-Series Miniature Aluminum Electrolytic Capacitors 105°C

WV	Cap.	Size	Digi-Key	Pricing						Panasonic
DC	µF	Code	Part No.	1	10	100	500	1,000	5,000	Part No.
6.3	22	A	P900-ND	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A0JKG220
	33	B	P901-ND	.19	1.02	7.21	24.89	39.00	34.00/M	ECE-A0JKG330
	47	B	P902-ND	.20	1.02	7.21	24.89	39.00	34.00/M	ECE-A0JKG470
	68	C	P903-ND	.20	1.25	8.83	30.50	48.00	42.00/M	ECE-A0JKG680
	100	C	P904-ND•	.24	1.25	8.83	30.50	48.00	42.00/M	ECE-A0JKG101
	220	D	P941-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A0JKG221
10	22	A	P905-ND	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1AKG220
	33	B	P906-ND	.21	1.02	7.21	24.89	39.00	34.00/M	ECE-A1AKG330
	47	C	P907-ND	.21	1.25	8.83	30.50	48.00	42.00/M	ECE-A1AKG470
	68	C	P908-ND	.24	1.25	8.83	30.50	48.00	42.00/M	ECE-A1AKG680
	100	C	P942-ND	.24	1.12	8.03	28.89	45.00	42.00/M	ECE-A1AKG101
16	6.8	A	P909-ND	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1CKG6R8
	10	A	P910-ND	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1CKG100
	15	A	P911-ND	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1CKG150
	22	B	P912-ND	.21	1.02	7.21	24.89	39.00	34.00/M	ECE-A1CKG220
	33	C	P913-ND•	.22	1.25	8.83	30.50	48.00	42.00/M	ECE-A1CKG330
	47	C	P914-ND•	.23	1.25	8.83	30.50	48.00	42.00/M	ECE-A1CKG470
	68	D	P943-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1CKG680
	100	D	P944-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1CKG101
25	6.8	A	P915-ND•	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1EKG6R8
	10	A	P916-ND•	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1EKG100
	15	B	P917-ND	.21	1.02	7.21	24.89	39.00	34.00/M	ECE-A1EKG150
	22	B	P918-ND•	.22	1.02	7.21	24.89	39.00	34.00/M	ECE-A1EKG220
	33	C	P919-ND	.25	1.25	8.83	30.50	48.00	42.00/M	ECE-A1EKG330
	47	D	P945-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1EKG470
	68	D	P946-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1EKG680
35	4.7	A	P920-ND•	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1VKG4R7
	6.8	A	P921-ND	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1VKG6R8
	10	B	P922-ND•	.21	1.02	7.21	24.89	39.00	34.00/M	ECE-A1VKG100
	15	C	P923-ND	.25	1.25	8.83	30.50	48.00	42.00/M	ECE-A1VKG150
	22	C	P924-ND•	.25	1.25	8.83	30.50	48.00	42.00/M	ECE-A1VKG220
	33	D	P947-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1VKG330
	47	D	P948-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1VKG470
50	0.1	A	P925-ND•	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG0R1
	0.15	A	P926-ND	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKGR15
	0.22	A	P927-ND•	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKGR22
	0.33	A	P928-ND•	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKGR33
	0.47	A	P929-ND•	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKGR47
	0.68	A	P930-ND	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKGR68
	1	A	P931-ND•	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG010
	1.5	A	P932-ND	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG1R5
	2.2	A	P933-ND•	.18	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG2R2
	3.3	A	P934-ND•	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG3R3
	4.7	A	P935-ND•	.19	.91	6.41	22.14	35.00	30.00/M	ECE-A1HKG4R7
	6.8	B	P936-ND	.21	1.02	7.21	24.89	39.00	34.00/M	ECE-A1HKG6R8
	10	C	P937-ND•	.25	1.25	8.83	30.50	48.00	42.00/M	ECE-A1HKG100
	15	C	P938-ND	.26	1.25	8.83	30.50	48.00	42.00/M	ECE-A1HKG150
	22	D	P939-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1HKG220
	33	D	P940-ND	.40	1.94	13.85	49.86	78.00	72.00/M	ECE-A1HKG330

• **P900-KIT-ND** ***Digi-Key® KG-Series Capacitors Kit*** 10 each of parts indicated. (180 pieces total) Notebook style storage case............ **$34.95**

The KG-Series is a tantalum substitute for many applications.

Features: • Height is 7mm • Anti-solvent in Freon

Operating Temperature Range: –55°C ~ 105°C

Capacitance Tolerance: ±20% at 120Hz, 20°C

DC Leakage Current: I≤0.01CV or 3[µA] after 2 minutes (whichever is greater)

tan δ (120Hz/120°C):

W.V.	6.3	10	16	25	35	50
tan δ (Maximum)	0.22	0.19	0.16	0.14	0.12	0.10

Low Temperature Impedance Stability at 120Hz:

W.V.	6.3	10	16	25	35	50
Z(-25°C)/Z(20°C)	3	2	2	2	2	2
Z(-40°C)/Z(20°C)	6	5	3	3	3	3
Z(-55°C)/Z(20°C)	8	6	4	4	4	4

Load Life:

After 1,000 hours application of DC rated working voltage at 105°C, the capacitor shall meet the following limits.

Capacitance change: < ±20% of the initial measured value.

tan δ:

< 200% of the initial specified value.

DC leakage current: < the initial specified value.

Anti-solvent:

Can withstand circuit-board cleaning within 5 minutes in Freon TE, TES, or TP-35 at 40°C by dipping, steaming, or ultrasonic.

Size Code	Dimensions: (mm)	
	Body Diameter D	Lead Space P
A	4	1.5
B	5	2
C	6.3	2.5
D	8	3.5

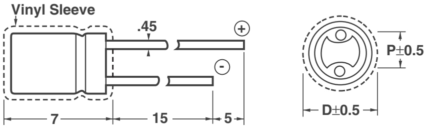

EPCOS

UltraCap® Single Capacitors

UltraCaps – Electrochemical double layer capacitors from EPCOS are new energy storage devices that close the gap between aluminum electrolytic capacitors and batteries in terms of power and energy density. They are capable of several hundred thousand charge and discharge cycles. Outstanding characteristics of UltraCaps are high power delivery and long useful life.

Features: • High Power Density • Fast Charging with High Current • Rechargable with Random Currents and Charging Profiles • Very High Discharge Currents • Proof Against Exhaustive Discharge • Resistant Against Reverse Polarity • Ultra-Low ESR • Wide Operating Temperature Range • Low Weight • PCB Free • Safety Vent • Maintenance Free

Fig. 1

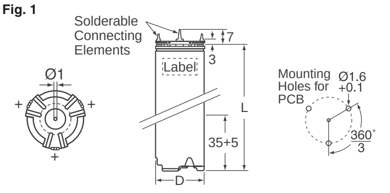

Fig. 2

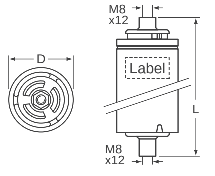

Fig.	WV DC	Capacitance (F)	Maximum ESR at 25° C 1KHz (mΩ)	Capacity (mAh)	Dimensions (mm) D	L	Digi-Key Part No.	Price Each 1	10	100	250	EPCOS Part No.
1	2.5	110	3.0	80	25	67	495-2059-ND	31.20	25.90	21.84	20.28	B49410A2115Q000
		200	1.5	140	30	76	495-2060-ND	42.90	35.61	30.03	27.89	B49410A2205Q000
2	2.5	600	0.6	420	50	109	495-2061-ND	136.50	117.00	109.20	101.40	B49410B2605Q000
		1200	0.35	830	50	148	495-2062-ND	159.25	136.50	127.40	118.30	B49410B2126Q000
		1800	0.30	1300	75	121	495-2063-ND	205.01	172.90	160.55	154.38	B49410B2186Q000
		2700	0.21	1900	75	150	495-2064-ND	248.17	209.30	194.35	186.88	B49410B2276Q000
		3600	0.16	2500	75	176	495-2065-ND	291.33	245.70	228.15	219.38	B49410B2366Q000
		5000	0.18	3500	89	176	495-2066-ND	352.63	312.82	295.75	284.38	B49410B2506Q000

CDE CORNELL DUBILIER

MLP Series Flatpack Ultra Long-Life Aluminum Capacitors

The MLP's high-energy storage and box shape makes it perfect for voltage holdup or filtering in military SEM-E modules, telecom circuit packs, and computer cards. The MLP delivers up to 20 joules of energy storage in a 1/2" height with a 50 year life at +45°C. You can readily heatsink it to double the ripple-current capability. Ratings up to 250V can operate at 75% of rated voltage up to +125°C if clamped or potted to prevent expanding beyond 1/2".

Features:

• Low profile replacement for snap-ins • Double the ripple capability with a heatsink • Nearly hermetic welded seal assures 50-year life • Withstands more than 80,000 feet altitude

Specifications:

• Operating Temperature: -55°C ~ 85°C up to 250VDC, -40°C ~ 85°C 300VDC and up • Leakage Current: ≤ 0.002CVuA @ 25°C and 5 minimum • Terminals: 18AWG copper wire with 60/40 tin-lead electroplate

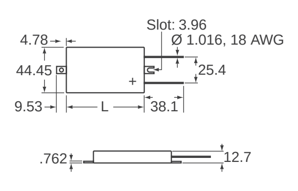

Voltage	Cap. (µf)	ESR Max. @ 25°C (mΩ) 120Hz	20KHz	Ripple Current (A) @ 85°C 120Hz	20KHz	Dim L (mm)	Digi-Key Part No.	Price Each 1	10	100	1,000	Cornell Dubilier Part No.
7.5	19000	76	66	4.2	4.5	38.1	338-1200-ND	69.97	59.97	49.98	31.99	MLP193M7R5EK0A
10	43000	30	27	9.0	9.6	76.2	338-1212-ND	87.43	74.94	62.45	39.97	MLP433M010EB0A
16	13000	81	69	4.1	4.4	38.1	338-1196-ND	69.97	59.97	49.98	31.99	MLP133M016EK0A
16	38000	31	27	9.0	9.6	76.2	338-1210-ND	87.43	74.94	62.45	39.97	MLP383M016EB0A
25	8000	87	69	3.9	4.4	38.1	338-1218-ND	69.97	59.97	49.98	31.99	MLP802M025EK0A
25	20000	34	27	8.6	9.6	76.2	338-1201-ND	87.43	74.94	62.45	39.97	MLP203M025EB0A
35	5600	90	70	3.4	4.4	38.1	338-1217-ND	69.97	59.97	49.98	31.99	MLP562M035EK0A
35	14000	35	27	8.4	9.6	76.2	338-1197-ND	87.43	74.94	62.45	39.97	MLP143M035EB0A
50	4400	97	70	3.7	4.4	38.1	338-1213-ND	69.97	59.97	49.98	31.99	MLP442M050EK0A
50	4400	97	70	3.7	4.4	38.1	338-1214-ND§	69.97	59.97	49.98	31.99	MLP442M050EK1A
50	11000	36	27	8.3	9.6	76.2	338-1192-ND	87.43	74.94	62.45	39.97	MLP113M050EB0A
50	11000	36	27	8.3	9.6	76.2	338-1193-ND§	87.43	74.94	62.45	39.97	MLP113M050EB1A
80	1500	106	77	3.6	4.2	38.1	338-1199-ND	69.97	59.97	49.98	31.99	MLP152M080EK0A
80	3300	44	31	7.5	9.0	76.2	338-1208-ND	87.43	74.94	62.45	39.97	MLP332M080EB0A
100	1100	112	78	3.5	4.2	38.1	338-1191-ND	69.97	59.97	49.98	31.99	MLP112M100EK0A
100	2700	46	33	7.4	8.7	76.2	338-1203-ND	87.43	74.94	62.45	39.97	MLP272M100EB0A
150	500	355	248	1.9	2.3	38.1	338-1215-ND	69.97	59.97	49.98	31.99	MLP501M150EK0A
150	1300	143	100	4.2	5.0	76.2	338-1195-ND	87.43	74.94	62.45	39.97	MLP132M150EB0A
200	400	388	253	1.9	2.3	38.1	338-1211-ND	69.97	59.97	49.98	31.99	MLP401M200EK0A
200	1000	158	100	3.8	5.0	76.2	338-1189-ND	87.43	74.94	62.45	39.97	MLP102M200EB0A
250	330	426	258	1.8	2.3	38.1	338-1205-ND	69.97	59.97	49.98	31.99	MLP331M250EK0A
250	820	172	103	3.8	4.9	76.2	338-1219-ND	87.43	74.94	62.45	39.97	MLP821M250EB0A
300	220	597	393	1.5	1.9	38.1	338-1202-ND	78.33	67.14	55.95	35.81	MLP221M300EK0A
300	560	240	157	3.2	4.0	76.2	338-1216-ND	97.93	83.94	69.95	44.77	MLP561M300EB0A
350	150	1000	734	1.2	1.4	38.1	338-1198-ND	78.33	67.14	55.95	35.81	MLP151M350EK0A
350	370	420	310	2.3	2.8	76.2	338-1209-ND	97.93	83.94	69.95	44.77	MLP371M350EB0A
400	130	1320	970	1.0	1.2	38.1	338-1194-ND	78.33	67.14	55.95	35.81	MLP131M400EK0A
400	330	530	390	2.1	2.5	76.2	338-1206-ND	97.93	83.94	69.95	44.77	MLP331M400EB0A
420	330	530	390	2.1	2.5	76.2	338-1207-ND	97.93	83.94	69.95	44.77	MLP331M420EB0A
450	110	1456	1190	.96	1.1	38.1	338-1190-ND‡	78.33	67.14	55.95	35.81	MLP111M450EK0C
450	280	585	480	2.0	2.3	76.2	338-1204-ND	97.93	83.94	69.95	44.77	MLP281M450EB0A

§ Polyester Insulation ‡ Two leads/no tabs, mounting style

NESSCAP
TURBO-POWER

Ultracapacitors and Pseudocapacitors

The NessCap **Ultracapacitor (ESHSR Series)** is an Electric Double Layer Capacitor (EDLC) that uses an activated carbon powder and coating process to prepare electrodes. The NessCap ultracapacitor's high energy density is made possible through the use of a proprietary binder formulation and specially developed electrode-making process.

The NessCap **Pseudocapacitor (PSHLR Series)** differs from the EDLC in that is uses a metal oxide rather than an activated carbon for electrode material. With this advantage, pseudocapacitor cell needs to be only 60% in volume as compared to an EDLC of the same capacitance. Conversely, it also means the pseudocapacitor holds 80% more energy than the equivalent-size EDLC.

Fig. 1

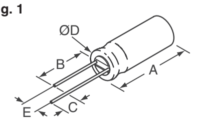

Fig. 2

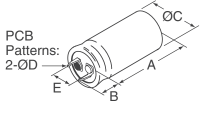

Fig. 3

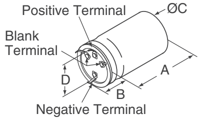

Fig. 4

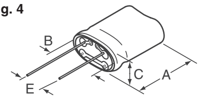

Insulator recommended for certain applications

Fig.	Working Voltage (DC)	Capacitance (F)	Nominal Internal Series Res. at 1KHz (Ω)	Dimensions (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	NessCap Part No.
ESHSR Series (Ultracapacitors)													
1	2.7	3	75	20	15	4	8	3.5	589-1000-ND	2.28	1.95	1.47	ESHSR-0003C0-002R7
	2.7	5	60	20	15	4	10	5	589-1001-ND	2.73	2.34	1.76	ESHSR-0005C0-002R7
	2.7	10	35	30	15	4	10	5	589-1002-ND	3.54	3.25	2.66	ESHSR-0010C0-002R7
	2.7	25	20	25	15	4	16	7.5	589-1003-ND	5.70	5.23	4.28	ESHSR-0025C0-002R7
	2.7	50	16	40	15	4	18	7.5	589-1004-ND	8.25	7.57	6.19	ESHSR-0050C0-002R7
2	2.7	100	10	45	6	22	2	10	589-1005-ND	15.30	14.03	11.48	ESHSR-0100C0-002R7
3	2.7	400	3.2	60	6	35	22.5	—	589-1006-ND	31.88	26.22	20.55	ESHSR-0400C0-002R7
4	5.4	1.5	150	23	17	9	—	8.8	589-1007-ND	5.22	4.79	3.92	EMHSR-0001C5-005R4
	5.4	2.5	100	23	21	10.5	—	10.6	589-1008-ND	6.06	5.56	4.55	EMHSR-0002C5-005R4
PSHLR Series (Pseudocapacitors)													
1	2.3	20	40	30	15	4	10	5	589-1009-ND	5.70	5.23	4.28	PSHLR-0020C0-002R3
	2.3	30	35	40	15	4	10	5	589-1010-ND	6.48	5.94	4.86	PSHLR-0030C0-002R3
	2.3	50	30	25	15	4	16	7.5	589-1011-ND	7.47	6.85	5.61	PSHLR-0050C0-002R3
	2.3	120	20	40	15	4	18	7.5	589-1012-ND	12.57	11.53	9.43	PSHLR-0120C0-002R3
2	2.3	220	15	45	6	22	2	10	589-1013-ND	20.01	18.35	15.01	PSHLR-0220C0-002R3

PowerStor® COOPER Bussmann Aerogel Supercapacitors

The PowerStor Aerogel Capacitor is a unique, ultra-high capacitance device based on a novel type of carbon foam, known as carbon aerogel. Aerogel capacitors are similar to ultracapacitors and electrochemical double layer capacitors (EDLCs) and gold capacitors with the added benefit of low ESR. Temperature range: -25°C ~ 70°C

A Series:

Features: • Ultra low ESR • Low leakage current • Long cycle life • High useable capacity • 2.5VDC working voltage can be configured in series for higher voltage applications **Applications:** • Pulse power • Hold-up power • DC/DC converters • Hybrid battery packs • Valve and solenoid actuation

B Series:

Features: • Higher energy density • Very low ESR • Low leakage currents • Long cycle life • 2.5VDC working voltage can be configured in series for higher voltage applications **Applications:** • Main power • Hybrid battery packs • Hold-up power • Pulse power

P Series:

Features: • Available in an ultra-low ESR version, PA or a low ESR but higher energy density version (PB) • 5.0VDC working voltage. **Applications: PB Series:** • Memory, microprocessor or RTC backup **PA Series:** • Pulse power • Hybrid battery packs • Hold-up power

Fig. 1

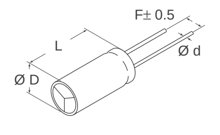

Fig. 2

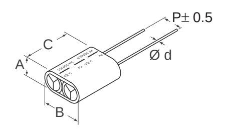

Working Voltage (DC)	Capacitance (F)	Nominal In ternal Series Res. at 1KHz (Ω)	Dimensions (mm) D	L	d (±0.02)	F (±0.5)	Digi-Key Part No.	Price Each 1	10	100	PowerStor Part No.
Fig. 1 — A Series Supercapacitors											
2.5	.47	.150	8.5	21.0	.50	3.5	283-2497-ND•	4.48	3.12	2.56	A0820-2R5474
	1	.090	10.5	22.3	.60	5.0	283-2498-ND•	6.24	4.56	3.72	A1020-2R5105
	1.5	.060	10.5	31.5	.60	5.0	283-2499-ND•	8.00	5.76	4.80	A1030-2R5155
	4.7	.025	16.5	38.0	.80	7.5	283-2500-ND•	13.20	10.38	8.70	A1635-2R5475
Fig. 1 — B Series Supercapacitors											
2.5	.22	3.00	5.5	12.0	.50	2.0	283-2501-NDx	1.32	1.04	.87	B0510-2R5224
	1	.400	8.5	13.5	.50	3.5	283-2502-NDx	3.00	2.00	1.63	B0810-2R5105
	1.5	.300	10.5	14.4	.60	5.0	283-2503-NDx	4.20	2.93	2.40	B1010-2R5155
	2.2	.200	8.5	21.0	.50	3.5	283-2504-ND▲	5.20	3.80	3.10	B0820-2R5225
	3.3	.150	10.5	22.3	.60	5.0	283-2505-ND▲	6.25	4.63	3.83	B1020-2R5335
	4.7	.150	8.5	31.0	.50	3.5	283-2506-ND	6.65	4.93	4.07	B0830-2R5475
	6.8	.100	10.5	31.5	.60	5.0	283-2507-ND	7.50	5.40	4.50	B1030-2R5685
	22	.040	16.5	38.0	.80	7.5	283-2509-ND&	15.40	11.90	10.15	B1635-2R5226
	33	.030	18.5	38.0	.80	7.5	283-2510-ND&	19.95	15.68	13.54	B1835-2R5336
	50	.025	18.5	42.0	.80	7.5	283-2511-ND&	23.80	19.40	16.66	B1840-2R5506

Working Voltage (DC)	Capacitance (F)	Nominal Internal Series Res. at 1KHz (Ω)	Dimensions (mm) A	B	C	d (±0.02)	P(±0.5)	Digi-Key Part No.	Price Each 1	10	100	PowerStor Part No.
Fig. 2 — P Series Supercapacitors												
5.0	.10	10.0	5.5	10.8	12.5	.5	7.3	283-2512-ND▲	4.06	2.80	2.29	PB-5R0V104
	.47	2.00	8.5	16.8	12.5	.5	11.8	283-2513-ND▲	5.13	3.71	3.04	PB-5R0V474
	1.0	1.00	8.5	16.8	21.5	.5	11.8	283-2514-ND▲	7.50	5.40	4.50	PB-5R0V105
	.47	.200	10.5	20.8	21.5	.6	5.3	283-2516-ND•	7.92	5.94	4.95	PA-5R0V474

PowerStor Design Kits

High power design kit for pulse and bridge power applications. PowerStor reference number PS-5903 (4 each of values indicated with a •).

283-2517-ND.............................**$128.25**

High power design kit for bridge power and memory backup applications. PowerStor reference number PS-5904 (6 each of values indicated with an **x**, plus 4 each of values indicated with a ▲).

283-2518-ND.............................**$105.75**

High energy design kit for bridge, pulse and main power applications. PowerStor reference number PS-5906 (2 each of values indicated with an **&**).

283-2520-ND...............................**$99.00**

Panasonic® SG Series Gold Capacitors Electric Double Layer Capacitors

Vertical

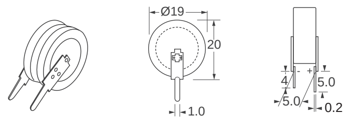

Horizontal

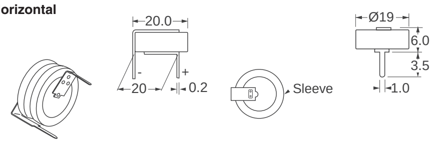

Specifications: • Operating Temperature Range: -25°C ~ 70°C • Rated Working Voltage: 5.5VDC • Nominal Capacitance Range: 0.022F ~ 1.0F (20°C) • Capacitance Tolerance: -20% ~ 80%

Temperature Characteristics: • Capacitance Change -25°C ~ 70°C: ±30% at 20°C • Internal Resistance -25°C: ≤5 times at 20°C • Inflow Current at 70°C: ≤4 times at 20°C

Load Life Characteristics: (after 1000 hours with rated voltage of 5.5VDC applied at 70°C.) • Capacitance Change: ±30% of initial measured value • Internal Resistance: ≤4 times of initial specified value • Inflow Current: ≤2 times of initial specified value

WV DC	Nominal Capacitance (F)	Internal Resistance Ω (1KHz)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
Vertical								
5.5	0.47	30	P6974-ND	4.65	3.71	2.91	1.86	EEC-S5R5V474
	1.0	30	P6975-ND	4.82	3.84	3.01	1.93	EEC-S5R5V105
	1.5	30	P11343-ND	5.55	4.42	3.46	2.22	EEC-S5R5V155
Horizontal								
5.5	0.47	30	P6980-ND	4.65	3.71	2.91	1.86	EEC-S5R5H474
	1.0	30	P6981-ND	4.82	3.84	3.01	1.93	EEC-S5R5H105
	1.5	30	P11342-ND	5.55	4.42	3.46	2.22	EEC-S5R5H155

SD Series Gold Capacitors Electric Double Layer Capacitors

Features: • 30% smaller than the SG series • Terminal solderability 95% • Longer life than a secondary battery • Best choice for µA range IC memory back-up

Specifications: • Operating Temperature Range: -25°C ~ 70°C • Rated Working Voltage: 5.5VDC • Capacitance Tolerance: -20% ~ 80%

Temperature Characteristics: • Capacitance Change -25°C ~ 70°C: ±30% at 20°C • Internal Resistance -25°C: ≤5 times at 20°C

Endurance: (after 1000 hours with rated voltage of 5.5VDC applied at 70°C.) • Capacitance Change: ±30% of initial measured value • Internal Resistance: ≤ 4 times the initial specified value

Vertical

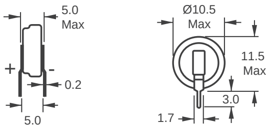

Horizontal

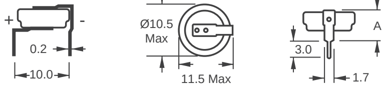

WV DC	Nominal Capacitance (F)	Internal Resistance Ω (1KHz)	Dimensions A mm (Maximum)	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
Vertical									
5.5	0.022	≤150	—	P10789-ND	1.85	1.24	.97	.62	EEC-S0HD223V
	0.047	≤120	—	P10790-ND	1.92	1.28	1.01	.65	EEC-S0HD473V
	0.10	≤75	—	P10791-ND	1.98	1.33	1.04	.67	EEC-S0HD104V
	0.22	≤75	—	P10792-ND	2.06	1.37	1.08	.69	EEC-S0HD224V
	0.33	≤75	—	P11065-ND	1.85	1.42	1.11	.71	EEC-S0HD334V
Horizontal									
5.5	0.022	≤150	5.5	P10785-ND	1.85	1.24	.97	.62	EEC-S0HD223H
	0.047	≤120	5.5	P10786-ND	1.92	1.28	1.01	.65	EEC-S0HD473H
	0.10	≤75	5.5	P10787-ND	1.98	1.33	1.04	.67	EEC-S0HD104H
	0.22	≤75	6.0	P10788-ND	2.06	1.37	1.08	.69	EEC-S0HD224H
	0.33	≤75	6.5	P11064-ND	1.85	1.42	1.11	.71	EEC-S0HD334H

EN Series Gold Capacitors Surface Mount

Electric Double Layer Capacitors

Type A

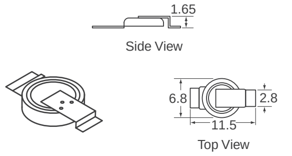

Type B

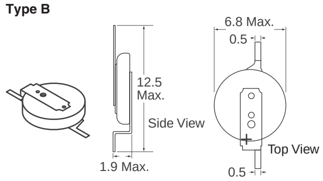

Type J1

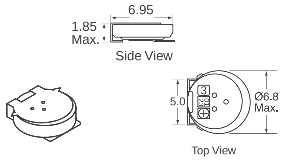

Type RL

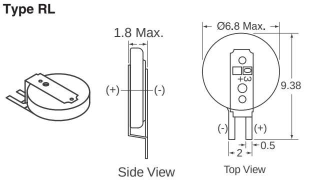

Features: • Surface mount • Longer life than a secondary battery • Lead free stainless steel terminals **Applications :** • Audio/Video equipment • Robotics • Computers • Home appliance • Office equipment **Specifications:** • Operating Temperature Range: -10°C ~ 60°C • Rated Working Voltage: 3.3VDC • Capacitance Tolerance: -20% ~ 80% • Reflow Solder: 240°C 30 second maximum **Endurance:** (After 500 hours with rated voltage of 3.3VDC applied at 60°C.) • Current: 300µA or less (at 30 minutes) • Capacitance Change: ±30% of initial measured value • Internal Resistance: 4KΩ or less

WV DC	Nom. Cap. (F)	Internal Resist. Ω Max.	Current µA	Terminal Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
3.3	0.2	200	150	A	P11067CT-ND	2.19	1.88	1.47	1.26	P11067TR-ND	938.00/M	EEC-EN0F204A
	0.2	200	150	B	P11068CT-ND	2.19	1.88	1.47	1.26	P11068TR-ND	938.00/M	EEC-EN0F204B
	0.2	200	150	J1	P11070CT-ND	2.50	2.14	1.68	1.43	P11070TR-ND	1070.00/M	EEC-EN0F204J1
	0.2	200	150	RL	P11069CT-ND	2.19	1.88	1.47	1.26	P11069TR-ND	938.00/M	EEC-EN0F204RL

HW Series Gold Capacitors Electric Double Layer Capacitors

Specifications: • Operating Temperature Range: -25°C ~ 70°C (reflects capacitance range 1.0 ~ 22); -25°C ~ 60°C (reflects capacitance range 30 ~ 50) • Terminal Polarity: (—) Negative

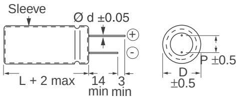

Warning: If the voltage balance breaks down, an over voltage condition could result. To prevent this from occurring, add a voltage dividing resistor in parallel with each capacitor, allowing for the capacitor's leakage current.

WV DC	Nominal Capacitance (F)	Internal Resistance Ω (1KHz)	Dimensions (mm) øD	L	ød	P	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
2.3	3.3	≤0.3	12.5	23	0.8	5.0	P11347-ND	3.03	2.38	1.52	1.42	EEC-HW0D335
	4.7	≤0.3	12.5	23	0.8	5.0	P11344-ND	3.12	2.45	1.57	1.46	EEC-HW0D475
	10.0	≤0.2	12.5	35	0.8	5.0	P11345-ND	4.04	3.17	2.03	1.89	EEC-HW0D106
	22.0	≤0.1	18.0	35	0.8	7.5	P11346-ND	6.95	5.45	3.48	3.25	EEC-HW0D226
	30.0	≤0.1	18.0	35	0.8	7.5	P11348-ND	8.05	6.31	4.03	3.76	EEC-HW0D306
	50.0	≤0.1	18.0	40	0.8	7.5	P11066-ND	8.79	6.89	4.40	4.11	EEC-HW0D506
2.1	70.0	≤0.1	18.0	50	0.8	7.5	P11349-ND	14.81	11.61	7.41	6.92	EEC-HW0D706

AL Series Gold Capacitors Electric Double Layer Capacitors

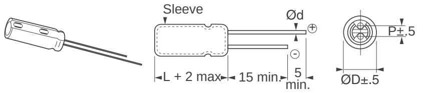

Specifications: • Operating Temperature Range: -25°C ~ 70°C • Rated Working Voltage: 2.5VDC • Nominal Capacitance Range: 0.22F ~ 10F (20°C) • Capacitance Tolerance: -20% ~ 80%

Temperature Characteristics: • Capacitance Change -25°C ~ 70°C: ±30% at 20°C • Internal Resistance -40°C: ≤3 times at 20°C • Inflow Current at 70°C: ≤3 times at 20°C

Load Life Characteristics: (After 1000 hours with rated voltage of 2.5VDC applied at 70°C.) • Capacitance Change: ±30% of initial measured value • Internal Resistance: ≤2 times of initial specified value • Inflow Current: ≤2 times of initial specified value

Shelf Life: After 1000 hours storage at +70°C without load, the capacitor shall meet the specified limits for "Endurance".

Loading with Moisture: The capacitor shall meet the limits for "High Temperature Loading" after 500 hours exposure at 55°C/90 to 95%RH with 2.5V DC applied.

WV DC	Capacitance (F)	Inflow Current* (mA)	Internal Resistance Ω (1KHz)	Dimensions (mm) øD	L	ød	P	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
2.5	1.0	0.18	1.0	8.0	22	0.7	3.5	P6963-ND	4.15	3.21	2.52	1.61	EEC-A0EL105
	3.3	0.30	0.3	12.5	23	0.8	5.0	P6966-ND	5.22	4.04	3.17	2.03	EEC-A0EL335
	4.7	0.44	0.2	12.5	35	0.8	5.0	P6967-ND	6.11	4.73	3.71	2.37	EEC-A0EL475
	10	0.60	0.1	18.0	35	0.8	7.5	P6969-ND	8.71	7.43	5.82	3.73	EEC-A0EL106

* Inflow current is measured after 90 minutes application of rated working voltage. In use, current will decrease to several µA level after approximately 10 hours application of rated working voltage.

F Series Gold Capacitors Electric Double Layer Capacitors

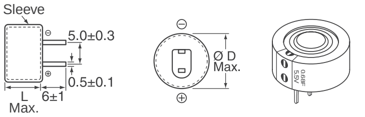

Features: • Endurance: 85°C 1000h

Specifications: • Operating Temperature Range: -25°C ~ 85°C • Maximum Operating Voltage: 5.5VDC • Nominal Capacitance Range: 0.047 ~ 1.0F

Temperature Characteristics: • Capacitance Change: ±30% of initial measured value at 20°C (-25° ~ 85°C) • Internal Resistance: -25°C: Less than 5 times of initial measured value at 20°C

Endurance: (After 1000 hours of 5.5VDC at 85°C, the capacitor shall meet the following limits.) • Capacitance Change: ±30% of initial measured value • Internal Resistance: Less than 4 times of initial specified value

Shelf Life: (After 1000 hours storage at 85°C without load, the capacitor shall meet the specified limits for "Endurance".)

Moisture Resistance: (After 500 hours storage at 55°C, 90% to 95% R.H., the capacitor shall meet the specified limits for "Endurance".)

WV DC	Capacitance (F)	Capacitance Range (F)	Current µA	Internal Resistance Ω (1KHz)	Case Code	Dimensions (mm) D	L	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
5.5	0.047	0.0376 ~ 0.0846	70	120	A	13.5	9.5	P12914-ND	3.48	2.79	2.18	1.40	EEC-F5R5H473
	0.47	0.376 ~ 0.846	215	75	B	21.5	9.5	P12915-ND	8.44	6.76	5.30	3.38	EEC-F5R5H474
	0.68	0.476 ~ 1.224	315	50	B	21.5	9.5	P12916-ND	8.72	6.98	5.47	3.49	EEC-F5R5H684
	1.00	0.80 ~ 1.80	315	50	B	21.5	9.5	P12913-ND	8.99	7.20	5.64	3.60	EEC-F5R5H105

NF Series Gold Capacitors Wet Type Electric Double Layer Capacitors

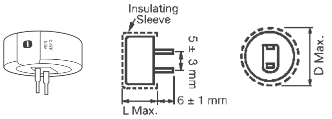

Gold capacitors provide super large capacitance by unique electrode and miniaturization technology meeting the trend of compactness. Suitable for a memory back-up for CMOS type RAM in microcomputers.

Features: • A long period memory back-up is available by excellent self-discharging characteristics • Low profile design is 9.5 mm maximum in height and has a standardized 5 mm terminal spacing • Superior to primary or secondary batteries in operating temperature range, charge/discharge characteristics, long time reliability and performance stability

Specifications: • Operating Temperature Range: -25°C ~ 70°C • Surge Voltage: 6.3VDC • Capacitance Tolerance: -20% ~ 80%

Temperature Characteristics: • Capacitance Change: ±30% at 20°C • Internal Resistance -25°C: Less than 5 times at 20°C • Leakage Current at 70°C: Less than 4 times at 20°C

Load Life Characteristics: (After 1000 hours with rated voltage of 5.5VDC applied at 70°C.) • Capacitance Change: ±30% • Internal Resistance: Less than 4 times • Leakage Current: Less than 2 times

WV DC	Capacitance (F)	Capacitance Range (F)	Inflow Current µA (30 minutes)	Internal Resistance V (1KHz)	Dimensions (mm) L	D	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
5.5	0.1	0.08 ~ 0.18	100	75	7.5	13.5	P6952-ND	2.33	1.66	1.30	.83	EEC-F5R5U104
	0.47	0.376 ~ 0.846	216	30	8.0	21.5	P6954-ND	5.41	4.07	3.19	2.04	EEC-F5R5U474
	1.0	0.8 ~ 1.8	315	30	8.0	21.5	P6955-ND	5.41	4.07	3.19	2.04	EEC-F5R5U105
	1.5	1.2 ~ 2.7	385	30	8.0	21.5	P11063-ND	6.63	4.82	3.77	2.42	EEC-F5R5U155

NEW! ELNA AMERICA, INC.

Electric Double Layer Capacitors

DB Series — 5.5VDC

Features:

- Small-sized • Large capacity • Excellent voltage holding • Wider temperature range than battery • Ideal for backing up of CMOS, Microcomputers and RAM

Specifications:

- Operating Temperature Range: -25°C ~ 70°C

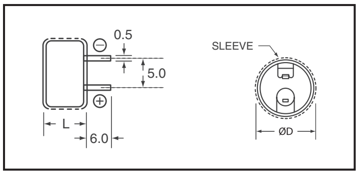

Rated Capaci-tance(F)	Dimensions (mm) D	L	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
.047	13.5	7.5	120	604-1000-ND	2.48	1.98	1.56	DB-5R5D473T
.10	13.5	7.5	75	604-1001-ND	2.48	1.98	1.56	DB-5R5D104T
.22	13.5	7.5	75	604-1004-ND	4.16	3.33	2.61	DB-5R5D224T
.33	13.5	7.5	75	604-1005-ND	4.16	3.33	2.61	DB-5R5D334T
.47	21.5	8.0	30	604-1002-ND	2.81	2.25	1.77	DB-5R5D474T
1.0	21.5	8.0	30	604-1003-ND	2.81	2.25	1.77	DB-5R5D105T

DC/DCK Series

Features:

- Small sized
- Large capacity

Specifications:

- Operating Temperature Range: -25°C ~ 70°C (DC Series) - 10°C ~ 60°C (DCK Series)

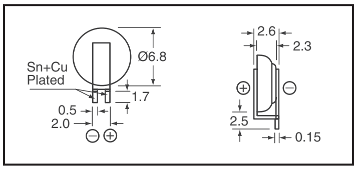

WV DC	Rated Capaci-tance(F)	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
2.5	0.22	100	604-1006-ND	2.44	1.95	1.53	DC-2R5E224U-E
3.3	0.22	200	604-1007-ND	2.44	1.95	1.53	DCK-3R3E224U-E

DK Series — 6.3VDC

Features:

- High voltage tolerance (6.3V guaranteed)
- Highly reliable
- Ideal for backing up Li-battery back equipment

Specifications:

- Operating Temperature Range: -25°C ~ 70°C

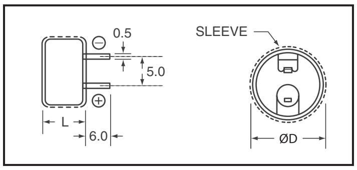

Rated Capaci-tance(F)	Dimensions (mm) D	L	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
.047	13.5	9.5	300	604-1014-ND	3.19	2.55	2.00	DK-6R3D473T
.10	13.5	9.5	200	604-1015-ND	3.19	2.55	2.00	DK-6R3D104T
.47	21.5	9.5	50	604-1016-ND	4.69	3.75	2.94	DK-6R3D474T
.68	21.5	9.5	50	604-1017-ND	4.69	3.75	2.94	DK-6R3D684T
1.0	21.5	9.5	30	604-1018-ND	5.21	4.17	3.27	DK-6R3D105T

DH Series — 5.5VDC

Features:

- High temperature tolerant
- Highly reliable

Specifications:

- Operating Temperature Range: -25°C ~ 85°C

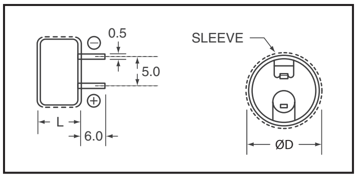

Rated Capaci-tance(F)	Dimensions (mm) D	L	Internal Resistance @ 1KHz (Ω)	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
.047	13.5	9.5	300	604-1008-ND	2.85	2.28	1.79	DH-5R5D473T
.10	13.5	9.5	200	604-1009-ND	2.85	2.28	1.79	DH-5R5D104T
.22	13.5	9.5	120	604-1010-ND	2.85	2.28	1.79	DH-5R5D224T
.47	21.5	9.5	50	604-1011-ND	4.69	3.75	2.94	DH-5R5D474T
.68	21.5	9.5	50	604-1012-ND	4.69	3.75	2.94	DH-5R5D684T
1.0	21.5	9.5	30	604-1013-ND	4.69	3.75	2.94	DH-5R5D105T

DSK Series

Features:

- Reflow soldering method available
- Highly reliable
- Safe
- Pollution free

Specifications:

- Operating Temperature Range: -10°C ~ 60°C

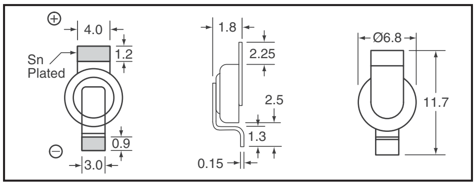

WV DC	Rated Capaci-tance(F)	Internal Resistance @ 1KHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel Pricing* 1,500	ELNA Part No.
2.5	0.22	200 Ω	604-1019-1-ND	2.98	2.55	2.00	1275.00/M	DSK-2R5H224U-HL
3.3	0.22	200 Ω	604-1020-1-ND	2.98	2.55	2.00	1275.00/M	DSK-3R3H224U-HL

* For Tape and Reel part number, change 1-ND to 2-ND.

DX Series — 5.5VDC

Features:

- Smaller and lighter than DB Series • Miniaturized but can encase up to .33F in 11.5 x 5mm case

Specifications:

- Operating Temperature Range: -25°C ~ 70°C

Fig. 1

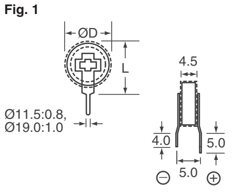

Fig. 2

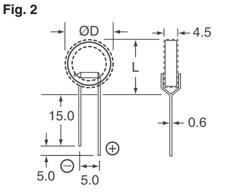

Fig. 3

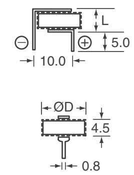

Fig.	Rated Capaci-tance(F)	Dimensions (mm) D	L	Internal Resistance @ 1KHz	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
1	.047	11.5	5.0	120Ω	604-1021-ND	2.06	1.65	1.30	DX-5R5H473U
	.10	11.5	5.0	75Ω	604-1022-ND	2.06	1.65	1.30	DX-5R5H104U
	.22	11.5	5.0	75Ω	604-1023-ND	2.06	1.65	1.30	DX-5R5H224U
	.33	11.5	5.0	75Ω	604-1024-ND	2.06	1.65	1.30	DX-5R5H334U
2	.047	11.5	12.4	120Ω	604-1025-ND	2.10	1.68	1.32	DX-5R5L473T
	.10	11.5	12.4	75Ω	604-1026-ND	2.10	1.68	1.32	DX-5R5L104T
	.22	11.5	12.4	75Ω	604-1027-ND	2.10	1.68	1.32	DX-5R5L224T
	.33	11.5	12.4	75Ω	604-1028-ND	2.10	1.68	1.32	DX-5R5L334T
3	.047	11.5	13.0	120Ω	604-1029-ND	2.06	1.65	1.30	DX-5R5V473U
	.10	11.5	13.0	75Ω	604-1030-ND	2.06	1.65	1.30	DX-5R5V104U
	.22	11.5	13.0	75Ω	604-1031-ND	2.06	1.65	1.30	DX-5R5V224U
	.33	11.5	13.0	75Ω	604-1032-ND	2.06	1.65	1.30	DX-5R5V334U
	1.0	19.0	20.5	30Ω	604-1033-ND	3.75	3.00	2.35	DX-5R5V105U

DZN Series — 2.5VDC

Features: • Low internal resistance allows boosting charge and heavy-current dishcharge • Unlimited number of charges and discharges

Specifications: • Operating Temperature Range: -25°C ~ 70°C

Fig. 1

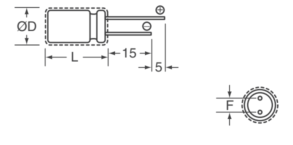

Fig. 2

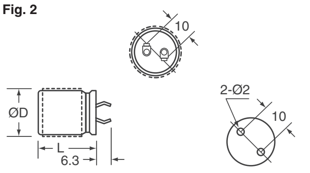

Fig.	Rated Capaci-tance(F)	Dimensions (mm) D	L	F	Internal Resistance @ 1KHz	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
1	1.0	8.0	22	3.5	0.3Ω	604-1042-ND	3.30	2.64	2.07	DZN-2R5D105T
	3.3	12.5	23	5.0	0.2Ω	604-1043-ND	4.28	3.42	2.68	DZN-2R5D335T
	4.7	12.5	31.5	5.0	0.10Ω	604-1044-ND	5.36	4.29	3.37	DZN-2R5D475T
	10	18.0	35	7.5	0.10Ω	604-1045-ND	8.78	7.02	5.50	DZN-2R5D106T
	20	18.0	40	7.5	0.10Ω	604-1046-ND	11.63	9.30	7.29	DZN-2R5D206T
2	50	25.0	40	—	0.03Ω	604-1047-ND	19.20	15.04	9.60	DZN-2R5D506T
	100	35.0	50	—	0.03Ω	604-1048-ND	31.50	23.80	19.60	DZN-2R5D107T

DZ Series — 2.5VDC

Features: • Low internal resistance allows boosting charge and heavy-current dishcharge • Unlimited number of charges and discharges

Specifications: • Operating Temperature Range: -25°C ~ 70°C

Fig. 1

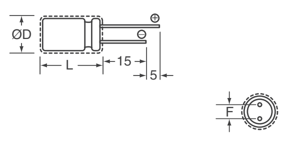

Fig. 2

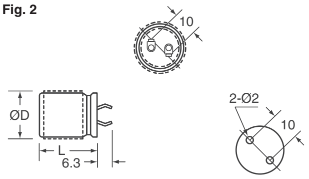

Fig.	Rated Capaci-tance(F)	Dimensions (mm) D	L	F	Internal Resistance @ 1KHz	Digi-Key Part No.	Price Each 1	10	100	ELNA Part No.
1	1.0	8.0	22	3.5	1.0Ω	604-1034-ND	3.19	2.55	2.00	DZ-2R5D105T
	3.3	12.5	23	5.0	0.3Ω	604-1035-ND	4.13	3.30	2.59	DZ-2R5D335T
	4.7	12.5	31.5	5.0	0.2Ω	604-1036-ND	5.06	4.05	3.18	DZ-2R5D475T
	10	18.0	35	7.5	0.2Ω	604-1037-ND	8.44	6.75	5.29	DZ-2R5D106T
	20	18.0	40	7.5	0.2Ω	604-1038-ND	10.13	8.10	6.35	DZ-2R5D206T
2	50	25.0	40	—	0.08Ω	604-1039-ND	18.60	14.57	9.30	DZ-2R5D506T
	100	35.0	50	—	0.08Ω	604-1040-ND	24.53	18.53	15.26	DZ-2R5D107T
	200	35.0	50	—	0.08Ω	604-1041-ND	35.10	26.52	21.84	DZ-2R5D207S57T

CDE CORNELL DUBILIER

NEW! DCMC Series Screw Terminal Aluminum Electrolytic Capacitors

85°C High Capacitance Computer Grade

RoHS COMPLIANT

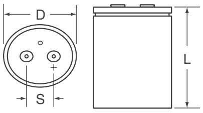

The DCMC series capacitor is the best choice for high-capacitance, power supply filters and energy storage applications such as welding equipment, UPS systems and computer hold-up power. The extended cathode foil of the DCMC assures cool operation with heatflow from the capacitor element to the can.

Specifications:

• **Operating Temperature:** -40°C ~ 85°C • **Life Test:** 4,000 hours at 85°C and rated voltage (ΔCapacitance ±20%, ESR 200% of limit, DCL 100% of limit) • **Shelf Life:** 500 hours @ 85°C

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @ 85°C 120Hz (A)	Dimensions Inches D	L	S	Digi-Key Part No.	Bulk Price Each 1	10	50	100	Cornell Dubilier Part No.
50	38000	16.3	11.9	2.000	3.125	0.875	338-1220-ND	41.59	35.03	32.84	30.65	DCMC383U050BB2B
75	30000	15.6	12.1	2.000	4.125	0.875	338-1221-ND	45.89	38.64	36.23	33.81	DCMC303U075BC2B
	46000	12.0	15.8	2.000	5.625	0.875	338-1222-ND	61.60	51.88	48.63	45.39	DCMC463U075BF2B
	74000	12.9	17.0	3.000	4.125	1.250	338-1223-ND	91.35	76.93	72.12	67.32	DCMC743U075DC2B
200	4300	46.1	7.1	2.000	3.125	0.875	338-1224-ND	45.60	38.40	36.00	33.60	DCMC432T200BB2B
	6900	28.5	9.7	2.000	4.125	0.875	338-1225-ND	62.55	52.68	49.38	46.09	DCMC692T200BC2B
450	1000	137.0	4.3	2.000	3.125	0.875	338-1226-ND	47.82	40.28	37.76	35.24	DCMC102T450BB2B
	1500	89.5	5.3	2.000	4.125	0.875	338-1227-ND	62.95	53.01	49.70	46.39	DCMC152T450BC2B
	1800	76.0	6.4	2.000	4.625	0.875	338-1228-ND	72.35	60.93	57.12	53.32	DCMC182T450BD2B
	2200	58.6	7.1	2.000	5.625	0.875	338-1229-ND	84.76	71.38	66.92	62.46	DCMC222T450BF2B
	2200	68.2	6.9	2.500	4.125	1.125	338-1230-ND	85.60	72.08	67.58	63.07	DCMC222T450CC2B
	2400	54.7	7.7	2.500	4.125	1.125	338-1231-ND	91.66	77.19	72.36	67.54	DCMC242T450CC2B
	3300	40.4	9.2	2.500	5.125	1.125	338-1232-ND	108.66	91.08	84.80	81.66	DCMC332T450CE2B
	4700	32.5	12.0	3.000	5.125	1.250	338-1233-ND	103.38	86.66	80.68	77.69	DCMC472T450DE2B
	5600	28.8	13.3	3.000	5.625	1.250	338-1234-ND	120.77	101.23	94.25	90.76	DCMC562T450DF2B
	6800	23.5	15.0	3.500	5.125	1.250	338-1235-ND	145.60	122.04	113.62	109.41	DCMC682T450FE2D
	8200	19.0	17.9	3.000	8.625	1.250	338-1236-ND	156.53	131.20	122.15	117.63	DCMC822T450DG2B
	10000	15.9	21.6	3.500	7.625	1.250	338-1237-ND	192.89	163.66	151.97	146.13	DCMC103T450FN2D

NEW! CGS Series Screw Terminal Aluminum Electrolytic Capacitors

85°C Computer Grade

RoHS COMPLIANT

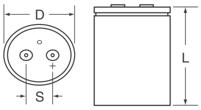

Features: High CV Product, suitable for use in most demanding applications requiring high current filtering or energy storage. **Specifications: • Operating Temperature:** -40°C ~ 85°C

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @ 85°C 120Hz (A)	Dimensions Inches D	L	S	Digi-Key Part No.	Bulk Price Each 1	10	50	100	Cornell Dubilier Part No.
40	9000	19.0	8.2	1.375	4.125	0.500	338-1238-ND	23.24	19.76	17.44	16.27	CGS902U040R4C
50	9600	18.0	10.3	2.000	4.125	0.875	338-1239-ND	29.01	24.66	21.76	20.31	CGS962U050V4C
	18000	34.0	6.8	2.000	3.125	0.875	338-1240-ND	29.96	25.47	22.47	20.98	CGS183U050V3C
	20000	21.0	9.5	2.000	4.125	0.875	338-1241-ND	31.28	26.59	23.46	21.90	CGS203U050V4C
	31000	28.0	9.6	2.500	4.125	1.125	338-1242-ND	37.86	31.89	29.89	27.90	CGS313U050W4C
	56000	5.0	23.1	3.000	3.625	1.250	338-1243-ND	56.78	47.82	44.83	41.84	CGS563U050X3L
75	10000	41.0	6.2	2.000	3.125	0.875	338-1244-ND	28.34	24.09	21.26	19.84	CGS103U075V3C
100	15000	51.0	7.9	3.000	4.125	1.250	338-1245-ND	52.12	43.90	41.15	38.41	CGS153U100X4C
250	1200	80.0	4.4	2.000	3.125	0.875	338-1246-ND	29.38	24.97	22.04	20.57	CGS122T250V3C
350	3300	44.0	9.5	3.000	5.625	1.250	338-1247-ND	78.04	65.72	61.61	57.51	CGS332T350X5L
450	210	332.0	1.9	1.375	4.125	0.500	338-1248-ND	23.24	19.76	17.44	16.27	CGS211T450R4C
	320	253.0	2.5	2.000	3.125	0.875	338-1249-ND	28.43	24.17	21.32	19.90	CGS321T450V3C
	2400	38.0	10.3	3.000	5.625	1.250	338-1250-ND	93.39	78.65	73.73	68.82	CGS242T450X5L

NEW! 500C Series Screw Terminal Aluminum Electrolytic Capacitors

95°C Long Life Computer Grade

RoHS COMPLIANT

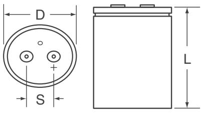

Type 500C capacitors are designed for mainframe computers and other long-life UPS and power supply filter applications. They deliver nearly as much capacitance as the DCMC capacitance, but with two times the life expectancy. They are an excellent choice for high ripple applications. The extended cathode foil of the 500C assures cool operation with heat flow from the capacitor element to the can.

Features: • Long life • High capacitance • For Power supply and UPS systems • Thermal-Pak™ extended cathode construction.

Specifications: • Operating Temperature: -40°C ~ 95°C

WV DC	Cap. (µF)	Max. ESR @25°C 120Hz (mΩ)	Max. Ripple Current @ 85°C 120Hz (A)	Dimensions Inches D	L	S	Digi-Key Part No.	Bulk Price Each 1	10	50	100	Cornell Dubilier Part No.
25	12000	49.1	5.1	1.375	2.125	0.500	338-1251-ND	17.44	14.83	13.08	12.21	500C123T025AA2B
	22000	41.2	7.0	2.000	2.125	0.875	338-1252-ND	24.72	21.02	18.54	17.31	500C223T025BA2B
	47000	19.4	11.7	2.000	3.125	0.875	338-1253-ND	33.28	28.29	24.96	23.30	500C473T025BB2B
	68000	14.9	14.1	2.000	3.625	0.875	338-1254-ND	37.72	31.76	29.78	27.79	500C683T025BJ2B
40	6000	29.0	7.5	1.375	3.125	0.500	338-1255-ND	17.48	14.86	13.11	12.24	500C602T040AB2B
	13000	16.0	14.2	2.000	4.125	0.875	338-1256-ND	26.08	22.17	19.56	18.26	500C133T040BC2B
	22000	30.0	9.4	2.000	3.125	0.875	338-1257-ND	31.34	26.64	23.51	21.94	500C223T040BB2B
50	4100	35.1	6.9	1.375	3.125	0.500	338-1258-ND	17.80	15.13	13.35	12.46	500C412T050AB2B
	6800	46.0	6.0	1.375	3.125	0.500	338-1259-ND	20.32	17.28	15.24	14.23	500C682T050AB2B
	10000	32.8	7.9	1.375	4.125	0.500	338-1260-ND	23.54	20.01	17.66	16.48	500C103T050AC2B
	15000	20.1	12.7	2.000	4.125	0.875	338-1261-ND	30.50	25.93	22.88	21.35	500C153T050BC2B
	20000	16.5	14.1	2.000	4.125	0.875	338-1262-ND	37.16	31.59	27.87	26.02	500C203T050BC2B
100	2500	82.0	3.9	1.375	2.125	0.500	338-1263-ND	20.48	17.41	15.36	14.34	500C252T100AA2B
	4000	57.6	5.9	2.000	2.125	0.875	338-1264-ND	28.72	24.42	21.54	20.11	500C402T100BA2B
	10000	22.9	11.3	2.000	3.625	0.875	338-1265-ND	43.34	36.50	34.22	31.94	500C103T100BJ2B
	18000	12.7	18.2	2.500	4.125	1.125	338-1266-ND	65.74	55.36	51.90	48.44	500C183T100CC2B
250	550	99.0	4.5	1.375	4.125	0.500	338-1267-ND	20.04	17.04	15.03	14.03	500C551T250AC2B
	1200	100.0	4.4	2.000	2.125	0.875	338-1268-ND	30.50	25.93	22.88	21.35	500C122T250BA2B
	6000	21.7	14.2	3.000	3.125	1.250	338-1269-ND	81.00	68.21	63.95	59.69	500C602T250DB2B
	10000	16.3	18.6	3.000	4.625	1.250	338-1270-ND	111.43	93.40	86.96	83.74	500C103T250DD2B
350	1000	142.0	4.0	2.000	2.625	0.875	338-1271-ND	36.14	30.72	27.11	25.30	500C102T350BH2B
	5600	27.0	14.3	3.000	4.625	1.250	338-1272-ND	108.25	90.73	84.47	81.35	500C562T350DD2B
450	450	306.0	2.9	2.000	3.125	0.875	338-1273-ND	33.26	28.28	24.95	23.29	500C451T450BB2B
	1000	141.0	4.6	2.000	3.625	0.875	338-1274-ND	48.58	40.92	38.36	35.80	500C102T450BJ2B
	1800	78.0	7.2	2.000	5.625	0.875	338-1275-ND	74.33	62.60	58.68	54.77	500C182T450BF2B
	1800	70.0	9.6	3.000	5.625	1.250	338-1276-ND	78.70	66.28	62.13	57.99	500C182T450DF2B
	2200	68.0	7.8	2.500	4.125	1.125	338-1277-ND	87.63	73.80	69.18	64.57	500C222T450CC2B
	2400	61.0	9.9	3.000	5.125	1.250	338-1278-ND	88.33	74.04	68.94	66.38	500C242T450DE2B
	3100	48.0	10.4	2.500	5.625	1.125	338-1279-ND	106.00	88.85	82.72	79.66	500C312T450CF2B
	3600	23.0	17.6	3.000	4.625	1.250	338-1280-ND	122.09	102.33	95.27	91.75	500C362T450DD2B

TS-Series Large Aluminum Electrolytic Capacitors

Operating Temperature:

- **TSU Series:** (63 ~ 250V/ -40 ~ +85°C)
- **TSUP Series:** (16 ~ 250V/ -40 ~ +85°C)
  (350 ~ 500V/ -25 ~ +85°C)
- **TSUQ Series:** (160 ~ 250V/ -40 ~ +85°C)
  (350 ~ 450V/ -25 ~ +85°C)
- **TSNH Series:** (16 ~ 250V/ -40 ~ +105°C)
  (400V/ -25 ~ +105°C)
- **TSHA Series:** (16 ~ 250V/ -40 ~ +105°C)
  (400V/ -25 ~ +105°C)
- **TSHB Series:** (200 ~ 450V/ -40 ~ +105°C)
  (400 ~ 450V/ -25 ~ +105°C)
- **TSED Series:** (200 ~ 250V/ -40 ~ +105°C)
  (400 ~ 450V/ -25 ~ +105°C)
- **TSHC Series:** (160 ~ 250V/ -40 ~ +105°C)
  (350 ~ 450V/ -25 ~ +105°C)

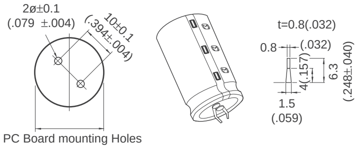

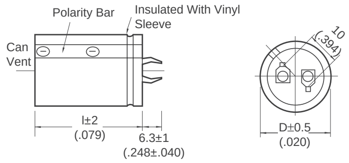

Capacitance Tolerance (at 120Hz):

Type:	TSU	TSUP	TSNH	TSHA	TSHB	TSED	TSHC	TSUQ
Tolerance:	±20%	±20%	±20%	±20%	±20%	±20%	±20%	±20%

Surge Voltage and Surge Voltage Test: The DC surge voltage is the maximum voltage to which the capacitor should be subjected. The surge voltage listed below is applied in series with a 1,000Ω resistor at a cycle of 0.5 minutes "ON" and 4.5 minutes "OFF", repeated 1,000 times at 25°C.

Rated DC Voltage:	16	25	35	50	63	80	100	160	200	250	350	400	420	450	500
Surge Voltage:	20	32	44	63	79	100	125	200	250	300	400	450	470	500	550

CROSS REFERENCES

PANASONIC TSU
Elna: LP; **Marcon:** FTW/FHW; **Nichicon:** UB/PS; **Rubycon:** LP/RP; **Sprague:** 80D; **UCC:** NMA.

PANASONIC TSUP
Matsushita: TSUP; **Nichichemi:** SMH; **Nichicon:** LQ; **Rubycon:** USP; **Marcon:** DWF & CEFHW; **UCC:** SMH; **Sprague:** 82D; **ICI:** LPR/LUG; **Mepco:** 3487.

PANASONIC TSNH
Elna: LPS/LPJ; **Marcon:** FTU/FHU; **Nichicon:** GH/GL/GM; **Rubycon:** XLP/XRP; **Sprague:** 81D; **UCC:** KM.

PANASONIC TSHA
Matsushita: TSHA; **Nichichemi:** KMH; **Nichicon:** GQ; **Rubycon:** MXP; **Marcon:** DUF & CEFHU; **UCC:** KMH; **Sprague:** 81D; **Mepco:** 3488.

After the test, the capacitor shall meet the following limits: Capacitance change of ±20% of initial measured value, DC leakage current less than initial limits, and D.F. less than 150% of initial limits.

Ripple Voltage: The sum of the DC voltage plus the AC peak ripple voltage shall not exceed the rated DC voltage, and there shall be no application of reversed voltage.

Ripple Current (mA):

Frequency (Hz):	50Hz	60Hz	120Hz	500Hz	1KHz	10 ~ 50KHz
16V ~ 100V:	0.93	0.95	1.0	1.05	1.06	1.15
160V ~ 500V:	0.75	0.8	1.0	1.2	1.25	1.4

D.C. Leakage Current:
Measurements shall be made at rated working voltage at 20°C. The voltage shall be applied to the capacitor for a minimum period of 5 minutes before reading the leakage current. Maximum leakage current shall not exceed the value given by the following formula: 16 ~ 100V: in case of C X V = 100,000µFV I = 0.01CVµA maximum in case of C X V = 100,000µFV I = 3 v C x VµA maximum 160 ~ 450V: 1 = 3 v C x VµA maximum where I = leakage current in mA, C = rated capacitance in µF V = DC rated WV in volts.

Load Life Test:
The capacitor shall be subjected to application of the DC rated voltage with full rated ripple current in the specified ambient temperature for the specified life period. The capacitor shall then be removed from the test chamber and stabilized at room temperature. After reaching temperature stability, the capacitor shall not exceed the following specified values listed: Capacitance change within ±20% of the initial measured value, DC leakage current ≤5 initial limits, and D.F. 150% of the initial limits.

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85° (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
TSU General Purpose 85°C, 2000 Hour Life											
63	3300	—	2.4	25	40	P6492-ND	4.20	3.45	2.90	2.02	ECE-S1JU332M
200	470	—	1.7	25	40	P6542-ND	4.02	3.30	2.77	1.93	ECE-S2DU471M
250	680	—	2.15	30	50	P6553-ND	6.24	5.28	4.56	3.42	ECE-S2EU681U
TSUP Miniaturized Size General Purpose 85°C, 3000 Hour Life											
16	4700	0.159	1.77	22	25	P7600-ND	2.20	1.86	1.34	1.01	ECO-S1CP472BA
	6800	0.110	2.57	22	25	P7601-ND	2.39	2.03	1.46	1.10	ECO-S1CP682BA
	8200	0.081	3.47	20	30	P6859-ND	3.87	3.18	2.23	1.55	ECO-S1CP822AA
	8200	0.091	3.10	22	25	P7602-ND	2.50	2.12	1.53	1.15	ECO-S1CP822BA
	10000	0.075	3.78	25	25	P6861-ND	3.78	3.03	2.07	1.35	ECO-S1CP103CA
	12000	0.062	4.52	20	35	P6862-ND	4.29	3.52	2.47	1.72	ECO-S1CP123AA
	12000	0.062	4.52	25	25	P6863-ND	3.50	2.88	2.01	1.40	ECO-S1CP123CA
	15000	0.053	5.26	25	30	P6865-ND	3.81	3.13	2.19	1.53	ECO-S1CP153CA
	18000	0.046	5.57	22	40	P6866-ND	3.94	3.23	2.26	1.58	ECO-S1CP183BA
	18000	0.046	5.57	25	30	P6867-ND	4.00	3.29	2.30	1.60	ECO-S1CP183CA
	22000	0.038	6.10	22	45	P6868-ND	4.38	3.60	2.52	1.76	ECO-S1CP223BA
	22000	0.038	6.10	30	30	P6869-ND	4.84	3.97	2.78	1.94	ECO-S1CP223DA
	27000	0.031	6.31	25	45	P6870-ND	5.13	4.21	2.95	2.06	ECO-S1CP273CA
	27000	0.031	6.31	30	35	P6871-ND	5.38	4.41	3.09	2.15	ECO-S1CP273DA
	33000	0.025	6.84	25	50	P6872-ND	4.82	4.09	2.94	2.21	ECO-S1CP333CA
	33000	0.025	6.84	35	30	P6873-ND	5.47	4.63	3.33	2.50	ECO-S1CP333EA
	39000	0.021	6.94	30	45	P6874-ND	5.75	4.87	3.51	2.63	ECO-S1CP393DA
	39000	0.021	6.94	35	35	P6875-ND	6.03	5.11	3.68	2.76	ECO-S1CP393EA
	47000	0.019	7.47	30	50	P6876-ND	6.34	5.37	3.87	2.90	ECO-S1CP473DA
	47000	0.021	7.47	35	40	P6877-ND	6.89	5.84	4.20	3.15	ECO-S1CP473EA
	56000	0.019	8.73	35	45	P6878-ND	7.65	6.48	4.66	3.50	ECO-S1CP563EA
	68000	0.018	9.05	35	50	P6879-ND	7.80	6.73	4.93	3.88	ECO-S1CP683EA
25	3300	0.161	1.68	22	25	P7603-ND	2.20	1.87	1.35	1.01	ECO-S1EP332BA
	4700	0.113	2.39	22	25	P7604-ND	2.39	2.03	1.46	1.10	ECO-S1EP472BA
	5600	0.095	3.36	20	30	P6881-ND	3.88	3.18	2.23	1.56	ECO-S1EP562AA
	5600	0.095	2.86	22	25	P7605-ND	2.51	2.12	1.53	1.15	ECO-S1EP562BA
	6800	0.078	3.47	20	35	P6882-ND	4.13	3.39	2.38	1.66	ECO-S1EP682AA
	6800	0.078	3.47	25	25	P6883-ND	3.78	3.03	2.08	1.36	ECO-S1EP682CA
	8200	0.065	3.57	25	25	P6885-ND	3.52	2.89	2.02	1.41	ECO-S1EP822CA
	10000	0.058	3.78	22	35	P6886-ND	3.71	3.05	2.14	1.49	ECO-S1EP103BA
	10000	0.058	3.78	30	25	P6887-ND	4.06	3.33	2.34	1.63	ECO-S1EP103DA
	12000	0.048	4.10	22	40	P6888-ND	4.04	3.31	2.32	1.62	ECO-S1EP123BA
	12000	0.048	4.10	30	30	P6889-ND	4.38	3.60	2.52	1.76	ECO-S1EP123DA
	15000	0.039	4.63	22	50	P6890-ND	4.47	3.67	2.57	1.79	ECO-S1EP153BA
	15000	0.039	4.63	30	30	P6891-ND	4.85	3.98	2.79	1.94	ECO-S1EP153DA
	18000	0.035	5.47	25	45	P6892-ND	5.09	4.18	2.93	2.04	ECO-S1EP183CA
	18000	0.035	5.47	30	35	P6893-ND	5.33	4.38	3.06	2.14	ECO-S1EP183DA
	22000	0.029	6.10	25	50	P6894-ND	5.61	4.61	3.23	2.25	ECO-S1EP223CA
	22000	0.029	6.10	30	40	P6895-ND	5.09	4.32	3.11	2.33	ECO-S1EP223DA
	27000	0.023	6.21	30	45	P6896-ND	5.82	4.93	3.55	2.66	ECO-S1EP273DA
	27000	0.025	6.21	35	35	P6897-ND	6.11	5.17	3.72	2.79	ECO-S1EP273EA
	33000	0.020	6.84	30	50	P6898-ND	6.49	5.50	3.96	2.97	ECO-S1EP333DA
	33000	0.020	6.84	35	40	P6899-ND	7.04	5.96	4.29	3.22	ECO-S1EP333EA
	39000	0.019	7.36	35	45	P6900-ND	7.03	6.06	4.44	3.49	ECO-S1EP393EA
	47000	0.017	8.00	35	50	P6901-ND	7.90	6.81	4.99	3.93	ECO-S1EP473EA
35	2200	0.166	1.52	22	25	P7606-ND	2.22	1.88	1.35	1.02	ECO-S1VP222BA
	3300	0.111	2.29	22	25	P7607-ND	2.42	2.05	1.48	1.11	ECO-S1VP332BA
	3900	0.094	2.94	20	30	P6903-ND	3.96	3.25	2.28	1.59	ECO-S1VP392AA
	3900	0.094	2.71	22	25	P7608-ND	2.54	2.16	1.55	1.17	ECO-S1VP392BA
	4700	0.078	3.26	25	25	P6905-ND	3.85	3.09	2.11	1.38	ECO-S1VP472CA
	5600	0.080	3.36	25	25	P6907-ND	4.03	3.23	2.21	1.44	ECO-S1VP562CA
	6800	0.066	3.68	22	35	P6908-ND	3.71	3.04	2.13	1.49	ECO-S1VP682BA
	6800	0.066	3.68	25	30	P6909-ND	3.85	3.16	2.21	1.54	ECO-S1VP682CA
	8200	0.057	4.00	22	40	P6910-ND	4.03	3.31	2.32	1.62	ECO-S1VP822BA
	8200	0.057	4.00	25	35	P6911-ND	4.18	3.43	2.40	1.68	ECO-S1VP822CA
	10000	0.050	4.42	22	45	P6913-ND	4.48	3.67	2.57	1.79	ECO-S1VP103BA
	10000	0.050	4.42	35	25	P6914-ND	5.33	4.37	3.06	2.13	ECO-S1VP103EA
	12000	0.044	5.05	25	45	P6915-ND	5.15	4.22	2.96	2.06	ECO-S1VP123CA
	12000	0.044	5.05	35	30	P6916-ND	5.79	4.75	3.33	2.32	ECO-S1VP123EA
	15000	0.036	5.57	25	50	P6917-ND	5.60	4.59	3.22	2.24	ECO-S1VP153CA
	15000	0.036	5.57	35	30	P6918-ND	5.55	4.70	3.38	2.54	ECO-S1VP153EA
35	18000	0.030	5.68	30	45	P6919-ND	5.90	5.00	3.60	2.70	ECO-S1VP183DA
	18000	0.030	5.68	35	35	P6920-ND	6.19	5.24	3.77	2.83	ECO-S1VP183EA
	22000	0.026	6.10	30	50	P6921-ND	6.39	5.41	3.90	2.92	ECO-S1VP223DA
	22000	0.026	6.10	35	40	P6922-ND	6.93	5.87	4.22	3.17	ECO-S1VP223EA
	27000	0.021	6.84	35	45	P6923-ND	7.09	6.12	4.48	3.53	ECO-S1VP273EA
	33000	0.018	7.15	35	50	P6924-ND	8.05	6.94	5.09	4.00	ECO-S1VP333EA
50	1500	0.221	1.24	22	25	P7609-ND	2.28	1.93	1.39	1.05	ECO-S1HP152BA
	2200	0.151	2.26	20	25	P6925-ND	3.81	3.13	2.19	1.53	ECO-S1HP222AA
	2200	0.151	1.82	22	25	P7610-ND	2.45	2.08	1.50	1.12	ECO-S1HP222BA
	2700	0.123	2.23	22	25	P7611-ND	2.62	2.22	1.60	1.20	ECO-S1HP272BA
	3300	0.100	2.73	20	35	P6927-ND	4.37	3.58	2.51	1.75	ECO-S1HP332AA
	3300	0.100	2.73	25	25	P6928-ND	3.48	2.85	2.00	1.39	ECO-S1HP332CA
	3900	0.085	2.75	20	40	P6929-ND	4.66	3.82	2.68	1.87	ECO-S1HP392AA
	3900	0.085	2.75	25	25	P6930-ND	3.68	3.02	2.12	1.48	ECO-S1HP392CA
	4700	0.071	3.03	22	35	P6931-ND	3.90	3.20	2.24	1.56	ECO-S1HP472BA
	4700	0.071	3.03	30	25	P6932-ND	4.28	3.51	2.46	1.71	ECO-S1HP472DA
	5600	0.059	3.42	22	40	P6933-ND	4.24	3.48	2.44	1.70	ECO-S1HP562BA
	5600	0.059	3.42	30	30	P6934-ND	4.63	3.80	2.66	1.85	ECO-S1HP562DA
	6800	0.049	3.85	22	50	P6935-ND	4.70	3.86	2.70	1.88	ECO-S1HP682BA
	6800	0.049	3.85	30	30	P6936-ND	5.07	4.16	2.92	2.03	ECO-S1HP682DA
	8200	0.040	4.41	25	45	P6937-ND	5.37	4.41	3.09	2.15	ECO-S1HP822CA
	8200	0.040	4.41	30	35	P6938-ND	5.62	4.61	3.23	2.25	ECO-S1HP822DA
	10000	0.036	4.97	25	50	P6939-ND	5.01	4.25	3.06	2.29	ECO-S1HP103CA
	10000	0.036	4.97	35	30	P6940-ND	5.71	4.83	3.48	2.61	ECO-S1HP103EA
	12000	0.032	5.58	30	45	P6941-ND	6.10	5.16	3.72	2.79	ECO-S1HP123DA
	12000	0.032	5.58	35	35	P6942-ND	6.38	5.40	3.89	2.92	ECO-S1HP123EA
	15000	0.028	6.44	30	50	P6943-ND	6.51	5.51	3.97	2.98	ECO-S1HP153DA
	15000	0.028	6.44	35	40	P6944-ND	7.41	6.27	4.52	3.39	ECO-S1HP153EA
	18000	0.023	6.94	35	45	P6945-ND	7.51	6.48	4.75	3.73	ECO-S1HP183EA
	22000	0.021	7.57	35	50	P6946-ND	8.21	7.08	5.19	4.08	ECO-S1HP223EA
80	680	0.390	1.02	22	25	P7357-ND	2.24	1.90	1.37	1.03	ECO-S1KP681BA
	1000	0.265	1.51	22	25	P7358-ND	2.46	2.09	1.50	1.13	ECO-S1KP102BA
	1200	0.221	1.81	22	25	P7359-ND	2.55	2.16	1.56	1.17	ECO-S1KP122BA
	1500	0.177	2.26	22	30	P7360-ND	2.82	2.39	1.72	1.29	ECO-S1KP152BA
	1500	0.177	2.26	25	25	P7361-ND	2.90	2.46	1.77	1.33	ECO-S1KP152CA
	1800	0.147	2.52	22	35	P7362-ND	3.04	2.58	1.86	1.39	ECO-S1KP182BA
	1800	0.147	2.52	25	30	P7363-ND	3.10	2.63	1.89	1.42	ECO-S1KP182CA
	2200	0.121	2.73	22	40	P7364-ND	3.31	2.81	2.02	1.52	ECO-S1KP222BA
	2200	0.121	2.73	30	25	P7365-ND	3.60	3.05	2.20	1.65	ECO-S1KP222DA
	2700	0.098	2.78	22	45	P7366-ND	3.68	3.12	2.25	1.69	ECO-S1KP272BA
	2700	0.098	2.78	30	30	P7367-ND	3.94	3.34	2.40	1.80	ECO-S1KP272DA
	3300	0.085	3.21	22	50	P7368-ND	3.95	3.34	2.41	1.81	ECO-S1KP332BA
	3300	0.085	3.21	30	30	P7369-ND	4.27	3.62	2.61	1.96	ECO-S1KP332DA
	3900	0.077	3.59	25	45	P7370-ND	4.47	3.79	2.73	2.05	ECO-S1KP392CA
	3900	0.077	3.59	30	35	P7371-ND	4.76	4.04	2.91	2.18	ECO-S1KP392DA
	4700	0.063	4.09	25	50	P7372-ND	4.88	4.13	2.98	2.23	ECO-S1KP472CA
	4700	0.063	4.09	30	40	P7373-ND	5.21	4.41	3.18	2.38	ECO-S1KP472DA
	5600	0.056	4.55	30	45	P7374-ND	5.85	4.95	3.57	2.68	ECO-S1KP562DA
	5600	0.056	4.55	35	35	P7375-ND	6.14	5.20	3.75	2.81	ECO-S1KP562EA
	6800	0.046	5.16	30	50	P7376-ND	6.48	5.49	3.95	2.96	ECO-S1KP682DA
	6800	0.046	5.16	35	40	P7377-ND	7.06	5.98	4.31	3.23	ECO-S1KP682EA
	8200	0.038	5.83	35	50	P7378-ND	7.97	6.75	4.86	3.65	ECO-S1KP822EA
100	470	0.459	1.11	22	25	P7379-ND	2.31	1.96	1.41	1.06	ECO-S2AP471BA
	560	0.385	1.32	22	25	P7380-ND	2.41	2.05	1.48	1.11	ECO-S2AP561BA
	680	0.317	1.61	22	25	P7381-ND	2.56	2.17	1.56	1.17	ECO-S2AP681BA
	1000	0.216	1.96	25	25	P6948-ND	3.50	2.88	2.01	1.40	ECO-S2AP102CA
	1200	0.180	2.31	20	40	P6949-ND	4.71	3.87	2.71	1.89	ECO-S2AP122AA
	1200	0.180	2.31	25	30	P6990-ND	3.73	3.06	2.15	1.50	ECO-S2AP122CA
	1500	0.155	2.57	22	40	P6991-ND	4.05	3.32	2.33	1.62	ECO-S2AP152BA
	1500	0.155	2.57	30	25	P6992-ND	4.35	3.57	2.50	1.74	ECO-S2AP152DA
	1800	0.129	2.84	22	45	P6993-ND	4.47	3.67	2.57	1.79	ECO-S2AP182BA
	1800	0.138	2.84	30	30	P6101-ND	4.71	3.87	2.71	1.89	ECO-S2AP182DA
	2200	0.121	3.14	22	50	P6102-ND	4.89	4.01	2.81	1.96	ECO-S2AP222BA
	2200	0.121	3.14	30	30	P6103-ND	4.45	3.77	2.71	2.04	ECO-S2AP222DA
	2700	0.104	3.71	25	45	P6104-ND	4.91	4.16	3.00	2.25	ECO-S2AP272CA
	2700	0.104	3.71	30	35	P6105-ND	5.00	4.24	3.05	2.29	ECO-S2AP272DA

(Continued)

Panasonic® TS-Series Large Aluminum Electrolytic Capacitors *(Cont.)*

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85° (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
100	3300	0.090	4.06	25	50	P6106-ND	5.44	4.61	3.32	2.49	ECO-S2AP332CA
	3300	0.090	4.06	30	40	P6107-ND	5.73	4.85	3.49	2.62	ECO-S2AP332DA
	3900	0.077	4.54	30	45	P6108-ND	6.36	5.39	3.88	2.91	ECO-S2AP392DA
	3900	0.081	4.54	35	35	P6109-ND	6.74	5.70	4.11	3.08	ECO-S2AP392EA
	4700	0.071	5.13	30	50	P6110-ND	6.44	5.56	4.07	3.20	ECO-S2AP472DA
	4700	0.071	5.13	35	40	P6111-ND	6.99	6.03	4.42	3.48	ECO-S2AP472EA
	5600	0.059	5.75	35	45	P6112-ND	7.83	6.76	4.95	3.89	ECO-S2AP562EA
	6800	0.049	6.60	35	50	P6113-ND	7.92	6.98	5.22	4.33	ECO-S2AP682EA
200	150	1.216	0.71	22	25	P7382-ND	2.19	1.86	1.34	1.01	ECO-S2DP151BA
	220	0.829	1.04	22	25	P7383-ND	2.37	2.01	1.45	1.09	ECO-S2DP221BA
	270	0.614	1.41	22	25	P6115-ND	3.39	2.72	1.86	1.22	ECO-S2DP271BA
	330	—	1.56	25	25	P6117-ND	3.25	2.67	1.87	1.30	ECO-S2DP331CA
	390	0.468	1.68	22	30	P6118-ND	3.31	2.72	1.91	1.33	ECO-S2DP391BA
	390	0.468	1.68	25	25	P6119-ND	3.44	2.82	1.98	1.38	ECO-S2DP391CA
	470	0.388	1.85	22	35	P6120-ND	3.59	2.95	2.07	1.44	ECO-S2DP471BA
	470	—	1.85	30	25	P6121-ND	4.11	3.37	2.36	1.65	ECO-S2DP471DA
	560	0.326	2.43	22	40	P6122-ND	3.77	3.10	2.17	1.51	ECO-S2DP561BA
	560	0.326	2.43	30	25	P6123-ND	4.43	3.63	2.55	1.77	ECO-S2DP561DA
	680	0.268	2.68	22	45	P6124-ND	4.13	3.39	2.37	1.65	ECO-S2DP681BA
	680	0.268	2.68	30	30	P6125-ND	4.79	3.93	2.75	1.92	ECO-S2DP681DA
	820	0.222	2.93	25	45	P6126-ND	4.69	3.85	2.70	1.88	ECO-S2DP821CA
	820	0.222	2.93	35	25	P6127-ND	5.66	4.64	3.25	2.27	ECO-S2DP821EA
	1000	0.199	3.25	25	45	P7384-ND	4.35	3.68	2.65	1.99	ECO-S2DP102CX
	1000	0.199	3.25	25	50	P6128-ND	4.52	3.83	2.76	2.07	ECO-S2DP102CA
	1000	0.199	3.25	35	30	P6129-ND	5.37	4.55	3.27	2.46	ECO-S2DP102EA
	1200	0.166	3.50	30	40	P7385-ND	5.44	4.60	3.31	2.49	ECO-S2DP122DX
	1200	0.166	3.50	30	45	P6130-ND	5.58	4.73	3.40	2.55	ECO-S2DP122DA
	1200	0.166	3.50	35	30	P7386-ND	5.82	4.93	3.55	2.66	ECO-S2DP122EX
	1200	0.166	3.50	35	35	P6131-ND	5.97	5.06	3.64	2.73	ECO-S2DP122EA
	1500	0.144	3.87	30	45	P7387-ND	6.30	5.33	3.84	2.88	ECO-S2DP152DX
	1500	0.144	3.87	30	50	P6132-ND	6.55	5.54	3.99	2.99	ECO-S2DP152DA
	1500	0.144	3.87	35	35	P7388-ND	6.68	5.65	4.07	3.05	ECO-S2DP152EX
	1500	0.144	3.87	35	40	P6133-ND	6.93	5.87	4.22	3.17	ECO-S2DP152EA
	1800	0.120	4.32	35	40	P7389-ND	7.60	6.43	4.63	3.47	ECO-S2DP182EX
	1800	0.120	4.32	35	45	P6134-ND	6.94	5.98	4.38	3.45	ECO-S2DP182EA
	2200	0.098	4.92	35	45	P7390-ND	8.60	7.28	5.24	3.93	ECO-S2DP222EX
	2200	0.098	4.92	35	50	P6135-ND	7.97	6.87	5.04	3.96	ECO-S2DP222EA
250	120	1.520	0.71	22	25	P7391-ND	2.34	1.99	1.43	1.08	ECO-S2EP121BA
	150	1.216	0.89	22	25	P7392-ND	2.47	2.09	1.51	1.13	ECO-S2EP151BA
	180	0.921	1.07	20	30	P7393-ND	3.37	2.86	2.06	1.55	ECO-S2EP181AA
	180	0.921	1.07	22	25	P7394-ND	2.62	2.22	1.60	1.20	ECO-S2EP181BA
	220	0.754	1.17	22	25	P7395-ND	2.76	2.34	1.69	1.27	ECO-S2EP221BX
	270	0.614	1.31	22	30	P7396-ND	2.97	2.52	1.82	1.36	ECO-S2EP271BA
	270	0.614	1.31	25	25	P7397-ND	3.09	2.62	1.89	1.42	ECO-S2EP271CA
	330	0.553	1.75	22	35	P7398-ND	3.27	2.77	2.00	1.50	ECO-S2EP331BA
	330	0.502	1.75	25	30	P7399-ND	3.34	2.83	2.04	1.53	ECO-S2EP331CA
	390	0.468	1.91	22	40	P7400-ND	3.49	2.96	2.13	1.60	ECO-S2EP391BA
	390	0.425	1.91	30	25	P7401-ND	3.80	3.22	2.32	1.74	ECO-S2EP391DA
	470	0.388	2.11	22	45	P7402-ND	3.85	3.26	2.35	1.76	ECO-S2EP471BA
	470	0.353	2.11	30	25	P7403-ND	4.16	3.52	2.54	1.90	ECO-S2EP471DX
	560	0.326	2.25	25	40	P7404-ND	4.33	3.67	2.64	1.98	ECO-S2EP561CX
	560	0.326	2.25	35	25	P7405-ND	4.91	4.16	3.00	2.25	ECO-S2EP561EA
	680	0.268	2.50	25	45	P7406-ND	4.80	4.06	2.93	2.20	ECO-S2EP681CX
	680	0.268	2.50	35	30	P7407-ND	5.43	4.60	3.31	2.49	ECO-S2EP681EA
	820	0.222	2.50	30	40	P7408-ND	5.67	4.80	3.46	2.60	ECO-S2EP821DX
	820	0.222	2.77	35	30	P7409-ND	6.05	5.12	3.69	2.77	ECO-S2EP821EX
	1000	0.182	3.32	30	45	P7410-ND	6.45	5.46	3.93	2.95	ECO-S2EP102DX
	1000	0.199	3.32	35	35	P7411-ND	6.85	5.80	4.18	3.13	ECO-S2EP102EX
	1200	0.166	3.53	35	40	P7412-ND	7.80	6.60	4.75	3.57	ECO-S2EP122EX
	1500	0.133	4.04	35	50	P7413-ND	9.05	7.66	5.51	4.14	ECO-S2EP152EA
400	47	3.527	0.47	22	25	P7414-ND	2.64	2.24	1.61	1.21	ECO-S2GP470BA
	68	—	0.76	20	30	P6136-ND	3.95	3.24	2.27	1.58	ECO-S2GP680AA
	68	2.438	0.69	22	25	P6137-ND	3.58	2.87	1.97	1.28	ECO-S2GP680BA
	82	2.022	0.83	22	25	P6139-ND	3.30	2.71	1.90	1.32	ECO-S2GP820BA
	100	1.658	0.92	25	25	P6141-ND	3.60	2.96	2.07	1.44	ECO-S2GP101CA
	120	1.382	1.02	20	40	P6142-ND	4.81	3.95	2.76	1.93	ECO-S2GP121AA
	120	1.382	1.02	25	25	P7415-ND	3.30	2.79	2.01	1.51	ECO-S2GP121CX
	120	—	1.02	25	30	P6143-ND	3.84	3.15	2.21	1.54	ECO-S2GP121CA
	150	1.105	1.16	22	40	P6144-ND	4.22	3.47	2.43	1.69	ECO-S2GP151BA
	150	1.105	1.16	30	25	P6145-ND	4.51	3.70	2.59	1.81	ECO-S2GP151DA
	180	0.921	1.44	22	45	P6146-ND	4.63	3.80	2.66	1.86	ECO-S2GP181BA
	180	—	1.44	30	30	P6147-ND	4.90	4.02	2.82	1.96	ECO-S2GP181DA
	220	0.754	1.49	22	50	P6148-ND	5.23	4.29	3.01	2.09	ECO-S2GP221BA
	220	0.754	1.49	30	30	P6149-ND	5.43	4.46	3.12	2.18	ECO-S2GP221DA
	270	0.675	1.67	25	45	P6150-ND	5.02	4.25	3.06	2.30	ECO-S2GP271CA
	270	0.675	1.67	35	30	P6151-ND	5.58	4.72	3.40	2.55	ECO-S2GP271EA
	330	0.553	1.90	30	40	P6152-ND	5.93	5.03	3.62	2.72	ECO-S2GP331DA
	330	0.553	1.90	35	30	P7416-ND	6.25	5.29	3.81	2.86	ECO-S2GP331EX
	330	0.553	1.90	35	35	P6153-ND	6.25	5.30	3.81	2.86	ECO-S2GP331EA
	390	0.468	2.13	30	45	P6154-ND	6.57	5.57	4.01	3.01	ECO-S2GP391DA
	390	0.468	2.13	35	35	P7417-ND	6.95	5.88	4.23	3.18	ECO-S2GP391EX
	390	0.468	2.13	35	40	P6155-ND	7.07	5.99	4.31	3.23	ECO-S2GP391EA
	470	0.388	2.39	35	40	P7418-ND	7.98	6.75	4.86	3.65	ECE-S2GP471EX
	470	0.388	2.39	35	45	P6156-ND	7.09	6.12	4.48	3.53	ECO-S2GP471EA
	560	0.326	2.69	35	45	P7419-ND	8.88	7.52	5.41	4.06	ECO-S2GP561EX
	560	0.326	2.69	35	50	P6157-ND	8.23	7.10	5.20	4.09	ECO-S2GP561EA
	680	0.268	3.00	35	50	P7420-ND	10.60	8.97	6.46	4.85	ECO-S2GP681EX
450	33	6.028	0.41	22	25	P7421-ND	2.42	2.05	1.48	1.11	ECO-S2WP330BA
	47	4.233	0.59	22	25	P7422-ND	2.64	2.24	1.61	1.21	ECO-S2WP470BA
	56	2.960	0.70	20	30	P7423-ND	3.51	2.98	2.14	1.61	ECO-S2WP560AA
	56	2.960	0.70	22	25	P7424-ND	2.79	2.36	1.70	1.28	ECO-S2WP560BA
	82	2.022	0.83	22	30	P7425-ND	3.25	2.75	1.98	1.49	ECO-S2WP820BA
	82	2.022	0.83	25	25	P7426-ND	3.27	2.77	2.00	1.50	ECO-S2WP820CA
	100	1.658	0.93	22	35	P7427-ND	3.59	3.04	2.19	1.64	ECO-S2WP101BA
	120	1.382	1.04	22	40	P7428-ND	3.92	3.32	2.39	1.79	ECO-S2WP121BA
	120	1.382	1.04	30	25	P7429-ND	4.16	3.52	2.54	1.90	ECO-S2WP121DA
	150	1.105	1.19	22	50	P7430-ND	4.38	3.71	2.67	2.01	ECO-S2WP151BA
	150	1.105	1.19	30	30	P7431-ND	4.55	3.85	2.78	2.08	ECO-S2WP151DA
	180	0.921	1.35	25	40	P7432-ND	4.90	4.15	2.99	2.24	ECO-S2WP181CX
	180	0.921	1.35	35	25	P7433-ND	5.57	4.72	3.40	2.55	ECO-S2WP181EA
	220	0.754	1.55	25	45	P7434-ND	5.55	4.70	3.39	2.54	ECO-S2WP221CX
	220	0.754	1.55	35	30	P7435-ND	6.05	5.13	3.69	2.77	ECO-S2WP221EA
	270	0.675	1.78	30	45	P7436-ND	6.50	5.50	3.96	2.97	ECO-S2WP271DA
	270	0.614	1.78	35	30	P7437-ND	6.93	5.87	4.22	3.17	ECO-S2WP271EX
450	330	0.553	2.01	30	50	P7438-ND	7.58	6.41	4.62	3.46	ECO-S2WP331DA
	330	0.553	2.01	35	35	P7439-ND	8.13	6.88	4.96	3.72	ECE-S2WP331EX
	390	0.510	2.24	35	45	P7440-ND	8.79	7.44	5.36	4.02	ECO-S2WP391EA
	470	0.423	2.53	35	45	P7441-ND	10.48	8.87	6.39	4.79	ECO-S2WP471EX
500	47	3.527	0.63	22	25	P7442-ND	3.32	2.81	2.02	1.52	ECO-S2HP470BA
	56	2.960	0.70	22	30	P7443-ND	3.51	2.98	2.14	1.61	ECO-S2HP560BA
	68	2.438	0.78	22	35	P7444-ND	3.87	3.28	2.36	1.77	ECO-S2HP680BA
	68	2.438	0.78	25	25	P7445-ND	3.91	3.32	2.39	1.79	ECO-S2HP680CA
	82	2.022	0.88	22	40	P7446-ND	4.21	3.57	2.57	1.93	ECO-S2HP820BA
	82	2.022	0.88	25	30	P7447-ND	4.22	3.58	2.58	1.93	ECO-S2HP820CA
	100	1.658	0.99	22	45	P7448-ND	4.66	3.95	2.85	2.14	ECO-S2HP101BA
	100	1.658	0.99	25	35	P7449-ND	4.68	3.97	2.86	2.14	ECO-S2HP101CA
	120	1.382	1.13	22	50	P7450-ND	5.23	4.43	3.19	2.39	ECO-S2HP121BA
	120	1.382	1.13	30	30	P7451-ND	5.39	4.57	3.29	2.47	ECO-S2HP121DA
	150	1.105	1.29	25	45	P7452-ND	5.96	5.05	3.63	2.73	ECO-S2HP151CA
	150	1.105	1.20	35	25	P7453-ND	6.60	5.59	4.02	3.02	ECO-S2HP151EA
	180	0.921	1.38	25	50	P7454-ND	6.81	5.76	4.15	3.11	ECO-S2HP181CA
	180	0.921	1.36	35	30	P7455-ND	7.28	6.16	4.44	3.33	ECO-S2HP181EA
	220	0.754	1.50	30	45	P7456-ND	7.91	6.70	4.82	3.62	ECO-S2HP221DA
	220	0.754	1.54	35	35	P7457-ND	8.28	7.01	5.05	3.79	ECO-S2HP221EA
	270	0.614	1.76	35	40	P7458-ND	9.57	8.10	5.83	4.38	ECO-S2HP271EA
	330	0.502	1.99	35	45	P7459-ND	11.06	9.36	6.74	5.06	ECO-S2HP331EA
	390	0.425	2.22	35	50	P7460-ND	12.75	10.79	7.77	5.83	ECO-S2HP391EA

TSUQ Highly Miniaturized Version 85°C, 2000 Hour Life

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85° (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
160	560	0.355	2.25	22	25	P11839-ND	3.18	2.55	2.10	1.37	EET-UQ2C561BA
	680	0.293	2.50	22	30	P11840-ND	3.42	2.74	2.25	1.47	EET-UQ2C681BA
	820	0.243	2.75	22	35	P11841-ND	3.25	2.66	2.24	1.56	EET-UQ2C821BA
	1000	0.199	3.00	22	40	P11821-ND	3.55	2.91	2.45	1.71	EET-UQ2C102BA
	1000	0.199	3.00	25	30	P11822-ND	3.61	2.96	2.49	1.73	EET-UQ2C102CA
	1200	0.166	3.25	22	45	P11823-ND	3.92	3.22	2.71	1.89	EET-UQ2C122BA
	1200	0.166	3.25	25	35	P11824-ND	3.95	3.24	2.72	1.90	EET-UQ2C122CA
	1200	0.166	3.25	30	25	P11825-ND	4.66	3.83	3.22	2.24	EET-UQ2C122DA
	1500	0.133	3.73	22	50	P11826-ND	4.48	3.68	3.09	2.15	EET-UQ2C152BA
	1500	0.133	3.73	25	40	P11827-ND	4.78	3.92	3.29	2.30	EET-UQ2C152CA
	1500	0.133	3.73	30	30	P11828-ND	5.16	4.24	3.56	2.48	EET-UQ2C152DA
	1500	0.133	3.73	35	25	P11829-ND	5.54	4.54	3.82	2.66	EET-UQ2C152EA
	1800	0.111	4.20	25	45	P11830-ND	5.01	4.11	3.45	2.40	EET-UQ2C182CA
	1800	0.120	4.20	30	35	P11831-ND	5.69	4.67	3.92	2.73	EET-UQ2C182DA
	1800	0.111	4.20	35	30	P11832-ND	6.06	4.97	4.18	2.91	EET-UQ2C182EA
	2200	0.090	4.78	30	40	P11833-ND	5.45	4.62	3.99	2.99	EET-UQ2C222DA
	2200	0.098	4.78	35	35	P11834-ND	5.80	4.91	4.25	3.19	EET-UQ2C222EA
	2700	0.074	5.45	30	45	P11835-ND	6.19	5.24	4.53	3.40	EET-UQ2C272DA
	2700	0.080	5.45	35	40	P11836-ND	6.59	5.58	4.82	3.61	EET-UQ2C272EA
	3300	0.070	5.75	35	45	P11837-ND	7.56	6.40	5.53	4.15	EET-UQ2C332EA
	3900	0.055	6.00	35	50	P11838-ND	7.75	6.68	5.87	4.62	EET-UQ2C392EA
200	390	0.510	1.68	22	25	P11856-ND	3.10	2.48	2.04	1.33	EET-UQ2D391BA
	470	0.423	1.85	22	30	P11857-ND	3.34	2.68	2.20	1.44	EET-UQ2D471BA
	560	0.355	2.43	22	30	P11858-ND	3.11	2.56	2.15	1.50	EET-UQ2D561BA
	560	0.355	2.43	25	25	P11859-ND	3.18	2.61	2.19	1.53	EET-UQ2D561CA
	680	0.293	2.68	22	35	P11860-ND	3.40	2.79	2.35	1.64	EET-UQ2D681BA
	680	0.293	2.68	25	30	P11861-ND	3.45	2.83	2.38	1.66	EET-UQ2D681CA
	820	0.243	2.93	25	30	P11862-ND	3.75	3.08	2.59	1.80	EET-UQ2D821CA
	820	0.243	2.93	30	25	P11863-ND	4.48	3.68	3.09	2.15	EET-UQ2D821DA
	1000	0.199	3.25	22	45	P11842-ND	4.13	3.39	2.85	1.99	EET-UQ2D102BA
	1000	0.199	3.25	25	35	P11843-ND	4.16	3.41	2.87	2.00	EET-UQ2D102CA
	1000	0.199	3.25	30	30	P11844-ND	4.66	3.83	3.22	2.24	EET-UQ2D102DA
	1000	0.232	3.25	35	25	P11845-ND	5.23	4.29	3.60	2.51	EET-UQ2D102EA
	1200	0.166	3.50	25	40	P11846-ND	4.64	3.81	3.20	2.23	EET-UQ2D122CA
	1200	0.166	3.50	30	30	P11847-ND	5.32	4.37	3.67	2.56	EET-UQ2D122DA
	1500	0.133	3.87	25	50	P11848-ND	5.40	4.43	3.72	2.59	EET-UQ2D152CA
	1500	0.144	3.87	30	35	P11849-ND	6.02	4.94	4.15	2.89	EET-UQ2D152DA
	1500	0.144	3.87	35	30	P11850-ND	5.49	4.65	4.02	3.02	EET-UQ2D152EA
	1800	0.120	4.32	30	45	P11851-ND	5.74	4.86	4.20	3.15	EET-UQ2D182DA
	1800	0.120	4.32	35	35	P11852-ND	6.14	5.20	4.49	3.37	EET-UQ2D182EA
	2200	0.098	4.92	30	50	P11853-ND	6.61	5.60	4.84	3.63	EET-UQ2D222DA
	2200	0.105	4.92	35	40	P11854-ND	7.03	5.95	5.14	3.86	EET-UQ2D222EA
	2700	0.086	5.54	35	50	P11855-ND	8.12	6.88	5.94	4.46	EET-UQ2D272EA
250	270	0.737	1.31	22	25	P11872-ND	3.17	2.54	2.09	1.36	EET-UQ2E271BA
	330	0.603	1.75	22	30	P11873-ND	3.42	2.74	2.25	1.47	EET-UQ2E331BA
	390	0.510	1.91	22	30	P11874-ND	3.20	2.62	2.21	1.54	EET-UQ2E391BA
	390	0.510	1.91	25	25	P11875-ND	3.25	2.67	2.24	1.56	EET-UQ2E391CA
	470	0.423	2.11	22	35	P11876-ND	3.49	2.86	2.41	1.68	EET-UQ2E471BA
	470	0.423	2.11	25	30	P11877-ND	3.53	2.90	2.43	1.70	EET-UQ2E471CA
	560	0.355	2.25	22	40	P11878-ND	3.81	3.13	2.63	1.83	EET-UQ2E561BA
	560	0.355	2.25	25	30	P11879-ND	3.87	3.17	2.67	1.86	EET-UQ2E561CA
	560	0.355	2.25	30	25	P11880-ND	4.36	3.58	3.01	2.09	EET-UQ2E561DA
	680	0.293	2.30	30	25	P13319-ND	4.70	4.07	3.44	2.58	EET-UQ2E681DF
	680	0.293	2.50	22	45	P11881-ND	4.24	3.48	2.92	2.04	EET-UQ2E681BA
	680	0.293	2.50	25	35	P11882-ND	4.28	3.51	2.95	2.06	EET-UQ2E681CA
	680	0.293	2.50	30	30	P11883-ND	4.97	4.07	3.42	2.39	EET-UQ2E681DA
	820	0.243	2.77	22	50	P11884-ND	4.79	3.93	3.30	2.30	EET-UQ2E821BA
	820	0.243	2.77	25	40	P11885-ND	4.78	3.92	3.29	2.30	EET-UQ2E821CA
	820	0.243	2.77	30	30	P11886-ND	5.27	4.32	3.63	2.53	EET-UQ2E821DA
	820	0.243	2.77	35	25	P11887-ND	5.84	4.79	4.03	2.81	EET-UQ2E821EA
	1000	0.199	3.32	25	45	P11864-ND	5.42	4.45	3.74	2.60	EET-UQ2E102CA
	1000	0.199	3.32	30	35	P11865-ND	5.89	4.83	4.06	2.83	EET-UQ2E102DA
	1000	0.199	3.32	35	30	P11866-ND	5.53	4.68	4.04	3.03	EET-UQ2E102EA
	1200	0.166	3.53	30	40	P11867-ND	5.81	4.92	4.25	3.19	EET-UQ2E122DA
	1200	0.166	3.53	35	35	P11868-ND	6.19	5.24	4.53	3.40	EET-UQ2E122EA
	1500	0.133	4.04	30	50	P11869-ND	6.81	5.76	4.98	3.74	EET-UQ2E152DA
	1500	0.133	4.04	35	40	P11870-ND	7.12	6.03	5.21	3.91	EET-UQ2E152EA
	1800	0.111	4.55	35	45	P11871-ND	8.09	6.85	5.92	4.44	EET-UQ2E182EA
350	150	1.326	1.12	22	25	P11912-ND	3.12	2.56	2.15	1.50	EET-UQ2V151BA
	180	1.105	1.22	22	30	P11913-ND	3.32	2.73	2.29	1.60	EET-UQ2V181BA
	220	0.904	1.44	22	35	P11914-ND	3.69	3.03	2.54	1.77	EET-UQ2V221BA
	270	0.737	1.66	22	40	P11915-ND	4.11	3.38	2.84	1.98	EET-UQ2V271BA
	270	0.737	1.66	25	30	P11916-ND	4.22	3.46	2.91	2.03	EET-UQ2V271CA
	330	0.603	1.88	22	45	P11917-ND	4.61	3.78	3.18	2.21	EET-UQ2V331BA
	330	0.603	1.88	25	35	P11918-ND	4.72	3.87	3.26	2.27	EET-UQ2V331CA
	390	0.510	2.06	22	50	P11919-ND	5.28	4.33	3.64	2.54	EET-UQ2V391BA
	390	0.510	2.06	25	40	P11920-ND	5.26	4.32	3.63	2.53	EET-UQ2V391CA
	390	0.510	2.06	30	30	P11921-ND	5.86	4.81	4.04	2.82	EET-UQ2V391DA
	390	0.510	2.06	35	25	P11922-ND	5.35	4.53	3.91	2.93	EET-UQ2V391EA
	470	0.423	2.40	25	45	P11923-ND	5.93	4.87	4.09	2.85	EET-UQ2V471CA

(Continued)

Panasonic TS-Series Large Aluminum Electrolytic Capacitors *(Cont.)*

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	85° (rms) Ripple Current (120Hz) A	Dim. (mm) D	Dim. (mm) L	Digi-Key Part No.	Price Each 1	10	50	200	Panasonic Part No.
350	470	0.423	2.40	30	35	P11924-ND	5.56	4.71	4.07	3.05	EET-UQ2V471DA
	470	0.423	2.40	35	30	P11925-ND	5.81	4.92	4.25	3.19	EET-UQ2V471EA
	560	0.355	2.60	25	50	P11926-ND	5.80	4.91	4.24	3.18	EET-UQ2V561CA
	560	0.355	2.60	30	40	P11927-ND	6.23	5.28	4.56	3.42	EET-UQ2V561DA
	560	0.355	2.60	35	30	P11928-ND	6.57	5.57	4.81	3.61	EET-UQ2V561EA
	680	0.293	2.93	30	45	P11929-ND	7.11	6.02	5.20	3.90	EET-UQ2V681DA
	680	0.293	2.93	35	35	P11930-ND	7.48	6.33	5.47	4.10	EET-UQ2V681EA
	820	0.243	3.25	30	50	P11931-ND	8.33	7.06	6.09	4.57	EET-UQ2V821DA
	820	0.243	3.25	35	45	P11932-ND	8.38	7.09	6.13	4.60	EET-UQ2V821EA
	1000	0.199	3.54	35	50	P11911-ND	8.89	7.67	6.74	5.30	EET-UQ2V102EA
400	120	1.658	1.02	22	25	P11888-ND	3.32	2.73	2.29	1.60	EET-UQ2G121BA
	150	1.326	1.16	22	30	P11889-ND	3.37	2.77	2.33	1.62	EET-UQ2G151BA
	180	1.105	1.30	22	30	P13320-ND	3.58	3.10	2.62	1.97	EET-UQ2G181BF
	180	1.105	1.44	22	35	P11890-ND	3.68	3.02	2.54	1.77	EET-UQ2G181BA
	220	0.904	1.40	22	35	P13321-ND	3.94	3.41	2.88	2.16	EET-UQ2G221BF
	220	0.904	1.49	22	40	P11891-ND	4.10	3.36	2.83	1.97	EET-UQ2G221BA
	220	0.904	1.49	25	30	P11892-ND	4.17	3.42	2.88	2.01	EET-UQ2G221CA
	270	0.737	1.67	22	45	P11893-ND	4.63	3.80	3.19	2.22	EET-UQ2G271BA
	270	0.737	1.67	25	35	P11894-ND	4.75	3.89	3.27	2.28	EET-UQ2G271CA
	270	0.737	1.67	30	30	P11895-ND	5.40	4.43	3.72	2.59	EET-UQ2G271DA
	330	0.603	1.90	22	50	P11896-ND	5.43	4.46	3.75	2.61	EET-UQ2G331BA
	330	0.603	1.90	25	40	P11897-ND	5.40	4.43	3.72	2.59	EET-UQ2G331CA
	330	0.603	1.90	30	30	P11898-ND	6.01	4.93	4.15	2.89	EET-UQ2G331DA
	330	0.603	1.90	35	25	P11899-ND	5.53	4.68	4.04	3.03	EET-UQ2G331EA
	390	0.510	2.13	25	45	P11900-ND	6.03	4.95	4.16	2.90	EET-UQ2G391CA
	390	0.510	2.13	30	35	P11901-ND	5.65	4.79	4.14	3.10	EET-UQ2G391DA
	390	0.510	2.13	35	30	P11902-ND	5.95	5.04	4.35	3.27	EET-UQ2G391EA
	470	0.423	2.39	25	50	P11903-ND	6.19	5.24	4.53	3.40	EET-UQ2G471CA
	470	0.423	2.39	30	40	P11904-ND	6.20	5.25	4.54	3.40	EET-UQ2G471DA
	470	0.423	2.39	35	30	P11905-ND	6.79	5.75	4.97	3.73	EET-UQ2G471EA
	560	0.355	2.69	30	45	P11906-ND	7.15	6.05	5.23	3.92	EET-UQ2G561DA
	560	0.355	2.69	35	35	P11907-ND	7.66	6.49	5.60	4.20	EET-UQ2G561EA
	680	0.293	2.70	35	40	P13322-ND	8.88	7.69	6.49	4.87	EET-UQ2G681EF
	680	0.293	2.96	30	50	P11908-ND	7.68	6.62	5.82	4.58	EET-UQ2G681DA
	680	0.293	2.96	35	45	P11909-ND	7.72	6.65	5.85	4.60	EET-UQ2G681EA
	820	0.243	2.96	35	45	P13323-ND	10.32	8.93	7.54	5.66	EET-UQ2G821EF
	820	0.243	3.25	35	50	P11910-ND	8.94	7.71	6.78	5.33	EET-UQ2G821EA
420	150	1.326	1.18	22	30	P13324-ND	3.49	3.03	2.56	1.92	EET-UQ2S151BA
	150	1.326	1.18	25	25	P13325-ND	3.55	3.08	2.60	1.95	EET-UQ2S151CA
	180	1.105	1.40	22	35	P13326-ND	3.80	3.29	2.78	2.09	EET-UQ2S181BA
	220	0.904	1.52	22	40	P13327-ND	4.19	3.63	3.07	2.30	EET-UQ2S221BA
	220	0.904	1.52	25	35	P13328-ND	4.30	3.72	3.14	2.36	EET-UQ2S221CA
	220	0.904	1.52	30	25	P13329-ND	4.81	4.17	3.52	2.64	EET-UQ2S221DA
	270	0.737	1.73	22	45	P13330-ND	4.73	4.10	3.46	2.60	EET-UQ2S271BA
	270	0.737	1.73	25	40	P13331-ND	4.77	4.14	3.49	2.62	EET-UQ2S271CA
	330	0.603	1.95	25	45	P13332-ND	5.38	4.66	3.94	2.95	EET-UQ2S331CA
	330	0.603	1.95	30	30	P13333-ND	5.92	5.13	4.33	3.25	EET-UQ2S331DA
	390	0.510	2.17	25	50	P13334-ND	6.46	5.59	4.72	3.54	EET-UQ2S391CA
	390	0.510	2.17	30	35	P13335-ND	6.56	5.68	4.80	3.60	EET-UQ2S391DA
	390	0.510	2.17	35	30	P13336-ND	6.75	5.85	4.94	3.70	EET-UQ2S391EA
	470	0.423	2.44	30	40	P13337-ND	7.35	6.37	5.38	4.03	EET-UQ2S471DA
	470	0.423	2.44	35	35	P13338-ND	7.58	6.57	5.55	4.16	EET-UQ2S471EA
	560	0.355	2.74	30	45	P13339-ND	8.32	7.20	6.08	4.56	EET-UQ2S561DA
	560	0.355	2.74	35	40	P13340-ND	8.65	7.49	6.33	4.75	EET-UQ2S561EA
	680	0.293	3.11	35	45	P13341-ND	11.34	9.82	8.29	6.22	EET-UQ2S681EA
450	82	2.426	0.83	22	25	P11955-ND	3.43	2.75	2.26	1.48	EET-UQ2W820BA
	100	1.989	0.93	22	25	P11933-ND	3.26	2.68	2.25	1.57	EET-UQ2W101BA
	120	1.658	1.04	22	30	P11934-ND	3.48	2.86	2.40	1.68	EET-UQ2W121BA
	150	1.326	1.19	22	35	P11935-ND	3.92	3.21	2.70	1.88	EET-UQ2W151BA
	150	1.326	1.19	25	30	P11936-ND	3.98	3.27	2.75	1.91	EET-UQ2W151CA
	180	1.105	1.35	22	40	P11937-ND	4.35	3.57	3.00	2.09	EET-UQ2W181BA
	180	1.105	1.35	25	30	P11938-ND	4.40	3.61	3.04	2.12	EET-UQ2W181CA
	220	0.904	1.45	25	35	P13342-ND	4.60	3.99	3.37	2.53	EET-UQ2W221CF
	220	0.904	1.55	22	45	P11939-ND	4.90	4.02	3.38	2.35	EET-UQ2W221BA
	220	0.904	1.55	25	40	P11940-ND	4.97	4.07	3.42	2.39	EET-UQ2W221CA
	220	0.904	1.55	30	30	P11941-ND	5.40	4.43	3.72	2.59	EET-UQ2W221DA
	220	0.904	1.55	35	25	P11942-ND	5.83	4.78	4.02	2.80	EET-UQ2W221EA
	270	0.737	1.78	22	50	P11943-ND	5.78	4.74	3.99	2.78	EET-UQ2W271BA
	270	0.737	1.78	25	40	P11944-ND	5.77	4.74	3.98	2.77	EET-UQ2W271CA
	270	0.737	1.78	30	30	P11945-ND	5.24	4.44	3.84	2.88	EET-UQ2W271DA
	330	0.603	1.88	30	35	P13343-ND	6.31	5.46	4.61	3.46	EET-UQ2W331DF
	330	0.603	2.01	25	50	P11946-ND	5.88	4.98	4.30	3.23	EET-UQ2W331CA
	330	0.603	2.01	30	40	P11947-ND	6.17	5.22	4.51	3.39	EET-UQ2W331DA
	330	0.603	2.01	35	30	P11948-ND	6.51	5.51	4.76	3.57	EET-UQ2W331EA
	390	0.510	2.24	30	40	P11949-ND	6.85	5.80	5.01	3.76	EET-UQ2W391DA
	390	0.510	2.24	35	35	P11950-ND	7.25	6.14	5.30	3.98	EET-UQ2W391EA
	470	0.423	2.53	30	45	P11951-ND	7.78	6.59	5.69	4.27	EET-UQ2W471DA
	470	0.423	2.53	35	40	P11952-ND	8.09	6.85	5.92	4.44	EET-UQ2W471EA
	560	0.355	2.82	30	50	P11953-ND	8.11	7.00	6.15	4.84	EET-UQ2W561DA
	560	0.355	2.82	35	45	P11954-ND	8.30	7.16	6.29	4.95	EET-UQ2W561EA
	680	0.293	3.02	35	50	P13344-ND	11.80	10.22	8.63	6.47	EET-UQ2W681EA

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105° (rms) Ripple Current (120Hz) A	Dim. (mm) D	Dim. (mm) L	Digi-Key Part No.	Price Each 1	10	50	200	Panasonic Part No.
TSNH Long Life and High Ripple Current 105°C, 2000 Hour Life											
16	4700	—	2.0	22	31.5	P6450-ND	3.10	2.49	2.04	1.33	ECE-S1CG472E
	22000	—	4.2	30	50	P6454-ND	5.38	4.56	3.94	2.96	ECE-S1CG223U
	33000	—	4.8	35	51	P6455-ND	7.85	6.64	5.74	4.31	ECE-S1CG333Z
25	3300	—	1.7	22	31.5	P6456-ND	3.07	2.46	2.02	1.32	ECE-S1EG332E
	6800	—	2.6	25	40	P6458-ND	3.79	3.11	2.61	1.82	ECE-S1EG682M
	10000	—	3.1	25	50	P6459-ND	4.69	3.85	3.24	2.25	ECE-S1EG103N
	22000	—	4.0	35	51	P6461-ND	8.16	6.91	5.96	4.47	ECE-S1EG223Z
35	15000	—	3.9	35	51	P6467-ND	6.92	5.86	5.06	3.80	ECE-S1VG153Z
50	10000	—	3.7	35	51	P6473-ND	6.61	5.60	4.84	3.63	ECE-S1HG103Z
63	3300	—	2.5	25	50	P6536-ND	4.51	3.70	3.11	2.17	ECE-S1JG332N
100	470	—	1.2	22	31.5	P6474-ND	3.31	2.65	2.18	1.42	ECE-S2AG471E
	680	—	1.4	22	40	P6539-ND	3.32	2.73	2.29	1.60	ECE-S2AG681G
250	330	—	1.25	25	50	P6581-ND	4.87	4.00	3.36	2.34	ECE-S2EG331N
	680	—	1.8	35	51	P6583-ND	6.71	5.68	4.91	3.68	ECE-S2EG681Z
400	220	—	1.0	30	50	P6587-ND	6.00	5.08	4.39	3.29	ECE-S2GG221U
TSHA Miniaturized Size, Long Life and High Ripple Current 105°C, 3000 Hour Life											
16	3300	0.176	1.30	22	25	P7461-ND	2.83	2.27	1.56	1.02	ECO-S1CA332BA
	4700	0.123	1.52	22	25	P7462-ND	3.03	2.43	1.67	1.09	ECO-S1CA472BA
16	6800	0.085	2.20	22	25	P6436-ND	3.28	2.63	1.80	1.18	ECO-S1CA682BA
	8200	0.071	2.40	20	35	P6437-ND	4.02	3.30	2.31	1.61	ECO-S1CA822AA
	8200	0.071	2.40	22	30	P6441-ND	3.56	2.85	1.96	1.28	ECO-S1CA822BA
	10000	0.066	2.60	20	40	P6444-ND	4.29	3.52	2.47	1.72	ECO-S1CA103AA
	10000	0.066	2.60	25	25	P6460-ND	3.41	2.80	1.96	1.37	ECO-S1CA103CA
	12000	0.055	2.90	22	35	P6468-ND	3.56	2.93	2.05	1.43	ECO-S1CA123BA
	12000	0.055	2.90	30	25	P6477-ND	3.92	3.22	2.25	1.57	ECO-S1CA123DA
	15000	0.046	3.20	30	30	P6541-ND	4.28	3.51	2.46	1.72	ECO-S1CA153DA
	18000	0.040	3.50	22	45	P6543-ND	4.19	3.44	2.41	1.68	ECO-S1CA183BA
	18000	0.040	3.50	35	25	P6545-ND	5.05	4.14	2.90	2.02	ECO-S1CA183EA
	22000	0.033	3.80	25	45	P6547-ND	4.86	3.99	2.79	1.95	ECO-S1CA223CA
	22000	0.033	3.80	35	30	P6550-ND	5.52	4.53	3.17	2.21	ECO-S1CA223EA
	27000	0.028	4.20	25	50	P6552-ND	5.36	4.40	3.08	2.15	ECO-S1CA273CA
	27000	0.028	4.20	35	30	P6558-ND	6.10	5.01	3.51	2.44	ECO-S1CA273EA
	33000	0.023	4.70	30	45	P6559-ND	5.53	4.69	3.38	2.53	ECO-S1CA333DA
	33000	0.023	4.70	35	35	P6560-ND	5.83	4.94	3.55	2.67	ECO-S1CA333EA
	39000	0.022	5.10	30	50	P6561-ND	6.03	5.10	3.68	2.76	ECO-S1CA393DA
	39000	0.022	5.10	35	40	P6562-ND	6.56	5.55	4.00	3.00	ECO-S1CA393EA
	47000	0.020	5.50	35	45	P6563-ND	7.29	6.18	4.45	3.34	ECO-S1CA473EA
	56000	0.019	6.00	35	50	P6999-ND	7.77	6.58	4.73	3.55	ECO-S1CA563EA
25	2200	0.241	1.30	22	25	P7463-ND	2.81	2.26	1.55	1.01	ECO-S1EA222BA
	3300	0.161	1.62	22	25	P7464-ND	3.03	2.43	1.66	1.09	ECO-S1EA332BA
	4700	0.106	2.00	20	30	P6998-ND	3.81	3.13	2.19	1.53	ECO-S1EA472AA
	4700	0.106	2.00	22	25	P6566-ND	3.29	2.64	1.81	1.18	ECO-S1EA472BA
	5600	0.089	2.20	20	35	P6567-ND	4.02	3.30	2.31	1.61	ECO-S1EA562AA
	5600	0.089	2.20	22	30	P6997-ND	3.57	2.86	1.96	1.28	ECO-S1EA562BA
	6800	0.073	2.40	25	25	P6570-ND	3.41	2.80	1.96	1.37	ECO-S1EA682CA
	8200	0.061	2.70	22	35	P6571-ND	3.58	2.94	2.06	1.44	ECO-S1EA822BA
	8200	0.061	2.70	30	25	P6572-ND	3.92	3.22	2.26	1.57	ECO-S1EA822DA
	10000	0.051	3.00	22	40	P6573-ND	3.80	3.12	2.19	1.52	ECO-S1EA103BA
	10000	0.051	3.00	30	30	P6574-ND	4.25	3.48	2.44	1.70	ECO-S1EA103DA
	12000	0.044	3.20	22	45	P6575-ND	4.27	3.50	2.45	1.71	ECO-S1EA123BA
	12000	0.044	3.20	35	25	P6576-ND	5.01	4.11	2.88	2.01	ECO-S1EA123EA
	15000	0.036	3.60	25	45	P6577-ND	4.87	4.00	2.80	1.95	ECO-S1EA153CA
	15000	0.036	3.60	35	30	P6578-ND	5.52	4.53	3.17	2.21	ECO-S1EA153EA
	18000	0.030	3.90	25	50	P6996-ND	5.29	4.34	3.04	2.12	ECO-S1EA183CA
	18000	0.030	3.90	35	35	P6590-ND	6.07	4.98	3.49	2.43	ECO-S1EA183EA
	22000	0.025	4.30	30	45	P6591-ND	5.46	4.63	3.33	2.50	ECO-S1EA223DA
	22000	0.025	4.30	35	35	P6592-ND	5.75	4.87	3.51	2.63	ECO-S1EA223EA
	27000	0.021	4.80	35	45	P6593-ND	6.56	5.56	4.00	3.00	ECO-S1EA273EA
	33000	0.018	5.50	35	50	P6594-ND	7.40	6.27	4.51	3.39	ECO-S1EA333EA
35	1500	0.287	1.10	22	25	P7465-ND	2.88	2.31	1.58	1.03	ECO-S1VA152BA
	2200	0.196	1.48	22	25	P7466-ND	3.12	2.50	1.72	1.12	ECO-S1VA222BA
	3300	0.121	1.90	20	30	P6595-ND	3.94	3.23	2.26	1.58	ECO-S1VA332AA
	3300	0.121	1.90	22	25	P6596-ND	3.44	2.76	1.89	1.23	ECO-S1VA332BA
	3900	0.111	2.00	20	35	P6597-ND	4.17	3.42	2.39	1.67	ECO-S1VA392AA
	3900	0.111	2.00	22	30	P6598-ND	3.70	2.97	2.03	1.33	ECO-S1VA392BA
	4700	0.088	2.20	25	25	P6600-ND	3.58	2.94	2.06	1.43	ECO-S1VA472CA
	5600	0.074	2.40	22	35	P6658-ND	3.76	3.08	2.16	1.51	ECO-S1VA562BA
	5600	0.074	2.40	30	25	P6659-ND	4.06	3.33	2.33	1.63	ECO-S1VA562DA
	6800	0.061	2.60	22	40	P6660-ND	4.11	3.37	2.36	1.65	ECO-S1VA682BA
	6800	0.061	2.60	30	30	P6661-ND	4.41	3.62	2.53	1.77	ECO-S1VA682DA
	8200	0.051	2.90	22	50	P6662-ND	4.41	3.62	2.53	1.77	ECO-S1VA822BA
	8200	0.051	2.90	35	25	P6663-ND	5.22	4.28	3.00	2.09	ECO-S1VA822EA
	10000	0.041	3.20	25	45	P6664-ND	5.13	4.21	2.95	2.05	ECO-S1VA103CA
	10000	0.041	3.20	35	30	P6665-ND	5.71	4.69	3.28	2.29	ECO-S1VA103EA
	12000	0.035	3.50	25	50	P6666-ND	5.60	4.59	3.22	2.24	ECO-S1VA123CA
	12000	0.035	3.50	35	30	P6667-ND	6.35	5.21	3.65	2.54	ECO-S1VA123EA
	15000	0.030	3.90	30	45	P6668-ND	5.88	4.98	3.58	2.69	ECO-S1VA153DA
	15000	0.030	3.90	35	35	P6669-ND	6.17	5.23	3.76	2.82	ECO-S1VA153EA
	18000	0.028	4.30	35	40	P6670-ND	7.04	5.96	4.29	3.22	ECO-S1VA183EA
	22000	0.023	5.00	35	50	P6671-ND	7.73	6.54	4.71	3.53	ECO-S1VA223EA
50	1000	0.232	0.90	22	25	P7467-ND	2.91	2.34	1.60	1.05	ECO-S1HA102BA
	1500	0.155	1.25	22	25	P7468-ND	3.12	2.50	1.72	1.12	ECO-S1HA152BA
	1800	0.129	1.50	20	30	P6672-ND	3.80	3.12	2.18	1.52	ECO-S1HA182AA
	1800	0.129	1.50	22	25	P6673-ND	3.28	2.63	1.80	1.18	ECO-S1HA182BA
	2200	0.105	1.70	22	30	P6675-ND	3.57	2.86	1.96	1.28	ECO-S1HA222BA
	2700	0.086	1.80	20	40	P6676-ND	4.32	3.55	2.49	1.73	ECO-S1HA272AA
	2700	0.086	1.80	25	25	P6677-ND	3.43	2.82	1.97	1.38	ECO-S1HA272CA
	3300	0.070	2.00	22	35	P6678-ND	3.63	2.98	2.09	1.45	ECO-S1HA332BA
	3300	0.070	2.00	25	30	P6679-ND	3.69	3.03	2.12	1.48	ECO-S1HA332CA
	3900	0.064	2.20	22	40	P6680-ND	3.88	3.19	2.23	1.56	ECO-S1HA392BA
	3900	0.064	2.20	30	25	P6681-ND	4.23	3.48	2.43	1.70	ECO-S1HA392DA
	4700	0.053	2.50	22	45	P6682-ND	4.27	3.51	2.46	1.71	ECO-S1HA472BA
	4700	0.053	2.50	35	25	P6683-ND	5.02	4.12	2.89	2.01	ECO-S1HA472EA
	5600	0.050	2.80	22	50	P6684-ND	4.62	3.79	2.65	1.85	ECO-S1HA562BA
	5600	0.050	2.80	35	30	P6685-ND	5.41	4.44	3.11	2.17	ECO-S1HA562EA
	6800	0.046	3.30	25	50	P6686-ND	5.20	4.27	2.99	2.08	ECO-S1HA682CA
	6800	0.046	3.30	35	30	P6687-ND	5.94	4.87	3.41	2.38	ECO-S1HA682EA
	8200	0.038	3.60	30	45	P6688-ND	6.25	5.13	3.59	2.50	ECO-S1HA822DA
	8200	0.038	3.60	35	35	P6689-ND	5.61	4.75	3.42	2.57	ECO-S1HA822EA
	10000	0.033	4.00	30	50	P6690-ND	5.89	4.99	3.59	2.69	ECO-S1HA103DA
	10000	0.033	4.00	35	40	P6691-ND	6.42	5.43	3.91	2.94	ECO-S1HA103EA
	12000	0.028	4.50	35	45	P6692-ND	7.11	6.02	4.34	3.25	ECO-S1HA123EA
	15000	0.022	4.80	35	50	P6693-ND	8.17	6.92	4.98	3.74	ECO-S1HA153EA
63	680	0.414	0.90	22	25	P7469-ND	2.89	2.31	1.59	1.04	ECO-S1JA681BA
	1000	0.282	1.17	22	25	P7470-ND	3.07	2.46	1.68	1.10	ECO-S1JA102BA
	1200	0.235	1.40	20	30	P7471-ND	4.28	3.42	2.35	1.53	ECO-S1JA122AA
	1200	0.235	1.40	22	25	P7472-ND	3.22	2.58	1.77	1.15	ECO-S1JA122BA
	1500	0.188	1.50	20	35	P7473-ND	4.56	3.65	2.50	1.63	ECO-S1JA152AA
	1500	0.188	1.50	22	30	P7474-ND	3.52	2.82	1.93	1.26	ECO-S1JA152BA
	1800	0.157	1.70	22	30	P7475-ND	3.73	2.99	2.05	1.34	ECO-S1JA182BA
	1800	0.157	1.70	25	25	P7476-ND	3.83	3.07	2.10	1.37	ECO-S1JA182CA
	2200	0.128	2.00	22	35	P7477-ND	4.03	3.23	2.21	1.44	ECO-S1JA222BA
	2200	0.128	2.00	25	30	P7478-ND	4.11	3.29	2.25	1.47	ECO-S1JA222CA
	2700	0.104	2.20	22	40	P7479-ND	4.38	3.51	2.41	1.57	ECO-S1JA272BA
	2700	0.104	2.20	30	25	P7480-ND	4.78	3.83	2.62	1.71	ECO-S1JA272DA
	3300	0.090	2.50	22	50	P7481-ND	4.79	3.83	2.63	1.71	ECO-S1JA332BA
	3300	0.090	2.50	35	25	P7482-ND	5.70	4.56	3.13	2.04	ECO-S1JA332EA
	3900	0.077	2.70	25	45	P7483-ND	5.37	4.30	2.95	1.92	ECO-S1JA392CA
	3900	0.077	2.70	35	30	P7484-ND	6.12	4.90	3.36	2.19	ECO-S1JA392EA
	4700	0.063	3.00	25	50	P7485-ND	5.84	4.67	3.20	2.09	ECO-S1JA472CA
	4700	0.063	3.00	35	30	P7486-ND	6.68	5.35	3.66	2.39	ECO-S1JA472EA
	5600	0.053	3.30	30	45	P7487-ND	6.96	5.57	3.82	2.49	ECO-S1JA562DA
	5600	0.053	3.30	35	35	P7488-ND	7.34	5.88	4.03	2.63	ECO-S1JA562EA

(Continued)

Panasonic TS-Series Large Aluminum Electrolytic Capacitors *(Cont.)*

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105° (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
63	6800	0.049	3.60	30	50	P7489-ND	7.66	6.13	4.20	2.74	ECO-S1JA682DA
	6800	0.049	3.60	35	40	P7490-ND	8.38	6.71	4.59	3.00	ECO-S1JA682EA
	8200	0.040	3.90	35	45	P7491-ND	9.28	7.43	5.09	3.32	ECO-S1JA822EA
	10000	0.033	4.40	35	50	P7492-ND	10.47	8.38	5.74	3.74	ECO-S1JA103EA
80	470	0.388	0.80	22	25	P7493-ND	2.92	2.34	1.60	1.05	ECO-S1KA471BA
	680	0.268	1.00	22	25	P7494-ND	3.16	2.53	1.73	1.13	ECO-S1KA681BA
	820	0.222	1.20	20	30	P7495-ND	4.48	3.59	2.46	1.60	ECO-S1KA821AA
	820	0.222	1.20	22	25	P7496-ND	3.28	2.63	1.80	1.18	ECO-S1KA821BA
	1000	0.182	1.30	22	30	P7497-ND	3.70	2.97	2.03	1.33	ECO-S1KA102BA
	1000	0.182	1.30	25	25	P7498-ND	3.83	3.07	2.10	1.37	ECO-S1KA102CA
	1200	0.166	1.50	22	30	P7499-ND	3.88	3.11	2.13	1.39	ECO-S1KA122BA
	1200	0.166	1.50	25	25	P7500-ND	3.92	3.14	2.15	1.41	ECO-S1KA122CA
	1500	0.133	1.70	22	35	P7501-ND	4.18	3.35	2.30	1.50	ECO-S1KA152BA
	1500	0.133	1.70	25	30	P7502-ND	4.44	3.56	2.44	1.59	ECO-S1KA152CA
	1800	0.111	1.80	22	40	P7503-ND	4.43	3.55	2.43	1.59	ECO-S1KA182BA
	1800	0.111	1.80	30	25	P7504-ND	4.80	3.85	2.64	1.72	ECO-S1KA182DA
	2200	0.090	2.10	22	45	P7505-ND	4.89	3.92	2.68	1.75	ECO-S1KA222BA
	2200	0.090	2.10	35	25	P7506-ND	6.15	4.93	3.37	2.20	ECO-S1KA222EA
	2700	0.074	2.40	25	45	P7507-ND	5.69	4.55	3.12	2.04	ECO-S1KA272CA
	2700	0.074	2.40	35	30	P7508-ND	6.74	5.39	3.69	2.41	ECO-S1KA272EA
	3300	0.065	2.60	25	50	P7509-ND	6.23	4.99	3.42	2.23	ECO-S1KA332CA
	3300	0.065	2.60	35	30	P7510-ND	7.09	5.68	3.89	2.54	ECO-S1KA332EA
	4700	0.049	3.30	30	50	P7511-ND	8.15	6.53	4.47	2.92	ECO-S1KA472DA
	4700	0.049	3.30	35	40	P7512-ND	8.90	7.12	4.88	3.18	ECO-S1KA472EA
	5600	0.050	3.70	35	45	P7513-ND	9.84	7.87	5.39	3.52	ECO-S1KA562EA
	6800	0.041	3.90	35	50	P7514-ND	11.06	8.85	6.06	3.96	ECO-S1KA682EA
100	330	0.553	0.80	22	25	P7515-ND	3.05	2.44	1.67	1.09	ECO-S2AA331BA
	470	0.388	0.92	22	25	P7516-ND	3.11	2.49	1.71	1.11	ECO-S2AA471BA
	560	0.296	1.10	20	30	P6694-ND	3.76	3.08	2.16	1.51	ECO-S2AA561AA
	560	0.296	1.10	22	25	P6695-ND	2.84	2.34	1.64	1.14	ECO-S2AA561BA
	820	0.202	1.40	20	35	P6696-ND	4.36	3.58	2.51	1.75	ECO-S2AA821AA
	820	0.202	1.40	25	25	P6697-ND	3.38	2.77	1.94	1.35	ECO-S2AA821CA
	1000	0.182	1.70	20	40	P6698-ND	4.72	3.87	2.71	1.89	ECO-S2AA102AA
	1000	0.182	1.70	25	30	P6699-ND	3.60	2.96	2.07	1.44	ECO-S2AA102CA
	1200	0.152	1.80	22	40	P6700-ND	4.05	3.33	2.33	1.62	ECO-S2AA122BA
	1200	0.152	1.80	30	25	P6701-ND	4.13	3.39	2.37	1.65	ECO-S2AA122DA
	1500	0.122	2.10	22	45	P6702-ND	4.49	3.69	2.58	1.80	ECO-S2AA152BA
	1500	0.122	2.10	35	25	P6712-ND	4.97	4.08	2.86	1.99	ECO-S2AA152EA
	1800	0.111	2.30	25	45	P6728-ND	4.70	3.86	2.70	1.88	ECO-S2AA182CA
	1800	0.111	2.30	35	30	P6806-ND	4.57	3.87	2.79	2.09	ECO-S2AA182EA
	2200	0.090	2.60	25	50	P6994-ND	4.52	3.83	2.76	2.07	ECO-S2AA222CA
	2200	0.090	2.60	35	30	P6995-ND	5.04	4.27	3.07	2.31	ECO-S2AA222EA
	2700	0.080	2.90	30	45	P6807-ND	5.26	4.46	3.21	2.41	ECO-S2AA272DA
	2700	0.080	2.90	35	35	P6808-ND	5.62	4.76	3.42	2.57	ECO-S2AA272EA
	3300	0.075	3.20	30	50	P6809-ND	6.04	5.12	3.69	2.77	ECO-S2AA332DA
	3300	0.075	3.20	35	40	P6810-ND	6.43	5.44	3.92	2.94	ECO-S2AA332EA
	3900	0.064	3.60	35	45	P6811-ND	6.33	5.45	4.00	3.15	ECO-S2AA392EA
	4700	0.053	3.80	35	50	P6812-ND	7.87	6.78	4.97	3.91	ECO-S2AA472EA
200	100	1.658	0.50	22	25	P7517-ND	2.79	2.24	1.53	1.00	ECO-S2DA101BA
	150	1.105	0.68	22	25	P7518-ND	3.07	2.46	1.68	1.10	ECO-S2DA151BA
	220	0.754	1.00	22	25	P6814-ND	3.38	2.71	1.85	1.21	ECO-S2DA221BA
	270	0.614	1.10	25	25	P6816-ND	3.31	2.72	1.91	1.33	ECO-S2DA271CA
	330	0.502	1.20	25	25	P6818-ND	3.55	2.91	2.04	1.42	ECO-S2DA331CA
	390	0.425	1.30	22	35	P6819-ND	3.61	2.96	2.07	1.45	ECO-S2DA391BA
	390	0.425	1.30	30	25	P6820-ND	4.02	3.30	2.31	1.61	ECO-S2DA391DA
	470	0.353	1.40	22	40	P6821-ND	3.88	3.18	2.23	1.56	ECO-S2DA471BA
	470	0.353	1.40	30	25	P6822-ND	4.33	3.56	2.49	1.74	ECO-S2DA471DA
	560	0.296	1.50	22	45	P6823-ND	4.21	3.46	2.42	1.69	ECO-S2DA561BA
	560	0.296	1.50	30	30	P6824-ND	4.63	3.80	2.66	1.86	ECO-S2DA561DA
	680	0.244	1.70	25	40	P6825-ND	4.78	3.93	2.75	1.92	ECO-S2DA681CA
	680	0.244	1.70	30	30	P6826-ND	5.10	4.18	2.93	2.04	ECO-S2DA681DA
	820	0.222	2.00	25	50	P6829-ND	4.66	3.95	2.85	2.14	ECO-S2DA821CA
	820	0.222	2.00	35	30	P6830-ND	5.17	4.38	3.15	2.37	ECO-S2DA821EA
	1000	0.199	2.20	30	45	P6831-ND	5.41	4.58	3.30	2.48	ECO-S2DA102DA
	1000	0.199	2.20	35	35	P6832-ND	5.85	4.95	3.57	2.68	ECO-S2DA102EA
	1200	0.166	2.30	30	50	P6833-ND	6.14	5.20	3.74	2.81	ECO-S2DA122DA
	1200	0.166	2.30	35	40	P6834-ND	6.53	5.53	3.98	2.99	ECO-S2DA122EA
	1500	0.144	2.50	35	50	P6835-ND	6.85	5.91	4.33	3.41	ECO-S2DA152EA
400	33	4.521	0.30	22	25	P7519-ND	3.17	2.54	1.74	1.14	ECO-S2GA330BA
	47	2.822	0.43	22	25	P7520-ND	3.45	2.77	1.90	1.24	ECO-S2GA470BA
	56	2.368	0.51	22	25	P6837-ND	3.16	2.60	1.82	1.27	ECO-S2GA560BA
	68	1.950	0.56	25	25	P6839-ND	3.42	2.81	1.97	1.37	ECO-S2GA680CA
	82	1.617	0.64	20	40	P6840-ND	4.56	3.74	2.62	1.83	ECO-S2GA820AA
	82	1.617	0.64	25	25	P6841-ND	3.67	3.01	2.11	1.47	ECO-S2GA820CA
	100	1.326	0.69	22	35	P6842-ND	3.95	3.24	2.27	1.58	ECO-S2GA101BA
	100	1.326	0.69	25	30	P6843-ND	3.96	3.25	2.28	1.59	ECO-S2GA101CA
	120	1.105	0.75	22	40	P6844-ND	4.26	3.49	2.45	1.71	ECO-S2GA121BA
	120	1.105	0.75	30	25	P6845-ND	4.54	3.72	2.61	1.82	ECO-S2GA121DA
	150	0.884	0.82	22	50	P6846-ND	4.85	3.98	2.79	1.94	ECO-S2GA151BA
	150	0.884	0.82	30	30	P6847-ND	5.03	4.13	2.89	2.01	ECO-S2GA151DA
	180	0.737	0.95	25	45	P6848-ND	5.33	4.37	3.06	2.13	ECO-S2GA181CA
	180	0.737	0.95	35	25	P6849-ND	5.14	4.36	3.14	2.35	ECO-S2GA181EA
	220	0.603	1.10	25	50	P6850-ND	5.21	4.41	3.18	2.38	ECO-S2GA221CA
	220	0.603	1.10	35	30	P6851-ND	5.68	4.81	3.46	2.60	ECO-S2GA221EA
	270	0.491	1.20	30	45	P6852-ND	6.04	5.12	3.69	2.77	ECO-S2GA271DA
	270	0.491	1.20	35	35	P6853-ND	6.40	5.42	3.90	2.93	ECO-S2GA271EA
	330	0.402	1.35	30	50	P6854-ND	7.01	5.94	4.28	3.21	ECO-S2GA331DA
	330	0.402	1.35	35	40	P6855-ND	7.39	6.25	4.50	3.38	ECO-S2GA331EA
	390	0.340	1.55	35	45	P6856-ND	7.35	6.34	4.64	3.65	ECO-S2GA391EA
	470	0.282	1.75	35	50	P6857-ND	8.59	7.41	5.43	4.27	ECO-S2GA471EA
TSHB Compact Size, Long Life and High Ripple Current 105°C, 3000 Hour Life											
200	390	0.510	1.30	22	30	P10106-ND	3.51	2.88	2.02	1.41	ECO-S2DB391BA
	390	0.510	1.30	25	25	P10107-ND	3.74	3.07	2.15	1.50	ECO-S2DB391CA
	470	0.423	1.40	22	35	P10108-ND	3.83	3.15	2.20	1.54	ECO-S2DB471BA
	470	0.423	1.40	25	30	P10109-ND	3.99	3.27	2.29	1.60	ECO-S2DB471CA
	560	0.355	1.50	30	25	P10110-ND	4.63	3.80	2.66	1.85	ECO-S2DB561DA
	820	0.263	2.00	25	45	P10111-ND	4.54	3.84	2.77	2.08	ECO-S2DB821CA
	820	0.263	2.00	35	25	P10112-ND	5.17	4.38	3.15	2.37	ECO-S2DB821EA
	1000	0.216	2.20	25	50	P10113-ND	5.19	4.39	3.16	2.37	ECO-S2DB102CA
	1000	0.216	2.20	35	30	P10114-ND	5.76	4.88	3.51	2.64	ECO-S2DB102EA
	1200	0.193	2.30	30	40	P10115-ND	5.68	4.81	3.46	2.60	ECO-S2DB122DA
	1200	0.193	2.30	35	35	P10116-ND	6.44	5.46	3.93	2.95	ECO-S2DB122EA
	1500	0.155	2.50	30	50	P10117-ND	7.00	5.93	4.27	3.20	ECO-S2DB152DA
	1500	0.155	2.50	35	40	P10118-ND	7.37	6.24	4.49	3.37	ECO-S2DB152EA
200	1800	0.129	2.70	35	45	P10119-ND	7.42	6.40	4.69	3.69	ECO-S2DB182EA
	2200	0.105	2.90	35	50	P10120-ND	8.79	7.58	5.55	4.37	ECO-S2DB222EA
250	330	0.502	1.20	25	30	P10121-ND	4.25	3.49	2.45	1.70	ECO-S2EB331CA
	390	0.425	1.30	30	25	P10122-ND	4.90	4.02	2.81	1.96	ECO-S2EB391DA
	470	0.353	1.40	22	50	P10123-ND	5.11	4.19	2.94	2.05	ECO-S2EB471BA
	470	0.353	1.40	30	30	P10124-ND	4.57	3.87	2.79	2.09	ECO-S2EB471DA
	560	0.296	1.50	25	45	P10125-ND	4.82	4.09	2.94	2.21	ECO-S2EB561CA
	560	0.296	1.50	35	25	P10126-ND	5.45	4.61	3.32	2.49	ECO-S2EB561EA
	680	0.244	1.70	25	50	P10127-ND	5.55	4.70	3.39	2.54	ECO-S2EB681CA
	820	0.202	2.00	30	45	P10129-ND	6.41	5.43	3.91	2.93	ECO-S2EB821DA
	820	0.202	2.00	35	35	P10130-ND	6.77	5.73	4.13	3.10	ECO-S2EB821EA
	1000	0.199	2.20	30	50	P10131-ND	7.43	6.29	4.53	3.40	ECO-S2EB102DA
	1000	0.199	2.20	35	40	P10132-ND	7.82	6.63	4.77	3.58	ECO-S2EB102EA
	1200	0.166	2.30	35	45	P10133-ND	10.08	8.69	7.64	6.01	ECO-S2EB122EA
	1500	0.144	2.50	35	50	P10134-ND	9.54	8.22	6.02	4.74	ECO-S2EB152EA
400	82	2.022	0.64	22	30	P10135-ND	3.59	2.95	2.07	1.44	ECO-S2GB820BA
	100	1.658	0.69	22	30	P10136-ND	3.93	3.23	2.26	1.58	ECO-S2GB101BA
	100	1.658	0.69	25	25	P10137-ND	4.00	3.29	2.30	1.60	ECO-S2GB101CA
	120	1.382	0.75	22	35	P10138-ND	4.29	3.52	2.47	1.72	ECO-S2GB121BA
	120	1.382	0.75	25	30	P10139-ND	4.29	3.52	2.46	1.72	ECO-S2GB121CA
	150	1.105	0.82	22	40	P10140-ND	4.82	3.95	2.77	1.93	ECO-S2GB151BA
	150	1.105	0.82	30	25	P10141-ND	5.11	4.19	2.93	2.05	ECO-S2GB151DA
	180	0.921	0.95	22	45	P10142-ND	4.53	3.84	2.77	2.08	ECO-S2GB181BA
	180	0.921	0.95	30	30	P10143-ND	4.74	4.01	2.89	2.17	ECO-S2GB181DA
	220	0.754	1.10	25	45	P10144-ND	5.13	4.34	3.13	2.35	ECO-S2GB221CA
	220	0.754	1.10	35	25	P10145-ND	5.77	4.89	3.52	2.64	ECO-S2GB221EA
	270	0.614	1.20	25	50	P10146-ND	5.92	5.02	3.61	2.71	ECO-S2GB271CA
	270	0.614	1.20	35	30	P10147-ND	6.39	5.41	3.90	2.92	ECO-S2GB271EA
	330	0.502	1.35	30	45	P10148-ND	6.29	5.43	3.98	3.13	ECO-S2GB331DA
	330	0.502	1.35	35	35	P10149-ND	6.63	5.72	4.19	3.30	ECO-S2GB331EA
	390	0.425	1.55	30	50	P10150-ND	7.19	6.20	4.54	3.57	ECO-S2GB391DA
	390	0.425	1.55	35	40	P10151-ND	7.54	6.50	4.77	3.75	ECO-S2GB391EA
	470	0.353	1.75	35	45	P10152-ND	8.37	7.22	5.29	4.16	ECO-S2GB471EA
	560	0.296	1.80	35	50	P10153-ND	8.83	7.79	5.82	4.82	ECO-S2GB561EA
450	82	2.022	0.56	22	30	P10154-ND	4.18	3.43	2.40	1.67	ECO-S2WB820BA
	100	1.658	0.64	22	35	P10155-ND	4.65	3.82	2.67	1.86	ECO-S2WB101BA
	100	1.658	0.64	25	30	P10156-ND	4.56	3.74	2.62	1.83	ECO-S2WB101CA
	120	1.382	0.72	22	40	P10157-ND	5.08	4.17	2.92	2.04	ECO-S2WB121BA
	120	1.382	0.72	25	35	P10158-ND	5.01	4.11	2.88	2.01	ECO-S2WB121CA
	150	1.105	0.79	22	50	P10159-ND	5.86	4.80	3.36	2.34	ECO-S2WB151BA
	150	1.105	0.79	30	30	P10160-ND	5.15	4.37	3.14	2.36	ECO-S2WB151DA
	180	0.921	0.87	25	45	P10161-ND	5.57	4.72	3.40	2.55	ECO-S2WB181CA
	180	0.921	0.87	30	35	P10162-ND	5.76	4.88	3.51	2.64	ECO-S2WB181DA
	220	0.754	1.00	25	50	P10163-ND	6.48	5.49	3.95	2.96	ECO-S2WB221CA
	220	0.754	1.00	30	40	P10164-ND	6.57	5.56	4.01	3.01	ECO-S2WB221DA
	270	0.614	1.19	30	45	P10165-ND	7.58	6.42	4.62	3.47	ECO-S2WB271DA
	270	0.614	1.19	35	35	P10166-ND	7.95	6.73	4.85	3.64	ECO-S2WB271EA
	330	0.502	1.38	30	50	P10167-ND	8.12	7.01	5.13	4.04	ECO-S2WB331DA
	330	0.502	1.38	35	40	P10168-ND	8.37	7.22	5.29	4.16	ECO-S2WB331EA
	390	0.425	1.55	35	45	P10169-ND	9.36	8.07	5.91	4.65	ECO-S2WB391EA
	470	0.353	1.74	35	50	P10170-ND	12.55	11.06	9.93	8.22	ECO-S2WB471EA
TSHC Highly Miniaturized Version 105°C, 2000 Hour Life											
160	470	0.423	1.40	22	25	P11709-ND	3.02	2.42	1.99	1.30	EET-HC2C471BA
	560	0.355	1.50	22	30	P11710-ND	3.21	2.57	2.12	1.38	EET-HC2C561BA
	680	0.293	1.70	22	30	P11711-ND	3.45	2.76	2.27	1.48	EET-HC2C681BA
	680	0.293	1.70	25	25	P11712-ND	3.08	2.53	2.13	1.48	EET-HC2C681CA
	820	0.243	2.00	22	35	P11713-ND	3.56	2.92	2.45	1.71	EET-HC2C821BA
	820	0.243	2.00	25	30	P11714-ND	3.33	2.73	2.30	1.60	EET-HC2C821CA
	1000	0.199	2.20	22	40	P11696-ND	3.59	2.95	2.48	1.73	EET-HC2C102BA
	1000	0.199	2.20	25	35	P11697-ND	3.64	2.98	2.51	1.75	EET-HC2C102CA
	1000	0.216	2.20	30	25	P11698-ND	4.36	3.58	3.01	2.09	EET-HC2C102DA
	1500	0.133	2.50	25	45	P11699-ND	4.56	3.74	3.15	2.19	EET-HC2C152CA
	1500	0.133	2.50	30	35	P11700-ND	5.25	4.30	3.62	2.52	EET-HC2C152DA
	1800	0.111	2.70	25	50	P11701-ND	5.15	4.23	3.55	2.48	EET-HC2C182CA
	1800	0.111	2.70	30	40	P11702-ND	5.77	4.74	3.98	2.77	EET-HC2C182DA
	1800	0.120	2.70	35	30	P11703-ND	5.35	4.53	3.91	2.93	EET-HC2C182EA
	2200	0.090	2.90	30	45	P11704-ND	5.58	4.72	4.08	3.06	EET-HC2C222DA
	2200	0.098	2.90	35	35	P11705-ND	6.03	5.11	4.41	3.31	EET-HC2C222EA
	2700	0.080	3.10	30	50	P11706-ND	6.37	5.39	4.66	3.49	EET-HC2C272DA
	2700	0.086	3.10	35	40	P11707-ND	6.99	5.92	5.11	3.84	EET-HC2C272EA
	3300	0.070	3.30	35	50	P11708-ND	7.98	6.76	5.84	4.38	EET-HC2C332EA
200	390	0.510	1.31	22	25	P11728-ND	3.22	2.58	2.12	1.39	EET-HC2D391BA
	470	0.423	1.45	22	30	P11729-ND	3.48	2.78	2.29	1.49	EET-HC2D471BA
	560	0.355	1.67	22	30	P11730-ND	3.26	2.68	2.25	1.57	EET-HC2D561BA
	680	0.293	1.75	22	40	P11731-ND	3.57	2.93	2.46	1.71	EET-HC2D681BA
	680	0.293	1.75	25	30	P11732-ND	3.61	2.97	2.49	1.74	EET-HC2D681CA
	820	0.243	2.04	22	45	P11733-ND	3.94	3.23	2.72	1.89	EET-HC2D821BA
	820	0.243	2.04	25	35	P11734-ND	3.96	3.25	2.73	1.90	EET-HC2D821CA
	820	0.243	2.04	30	25	P11735-ND	4.68	3.84	3.23	2.25	EET-HC2D821DA
	1000	0.199	2.07	25	40	P13233-ND	4.39	3.80	3.21	2.41	EET-HC2D102CF
	1000	0.199	2.30	22	50	P11715-ND	4.46	3.66	3.07	2.14	EET-HC2D102BA
	1000	0.199	2.30	25	45	P11716-ND	4.45	3.65	3.07	2.14	EET-HC2D102CA
	1000	0.199	2.30	30	30	P11717-ND	5.14	4.22	3.54	2.47	EET-HC2D102DA
	1000	0.216	2.30	35	25	P11718-ND	5.51	4.52	3.80	2.65	EET-HC2D102EA
	1200	0.166	2.38	25	45	P13234-ND	4.93	4.27	3.61	2.71	EET-HC2D122CF
	1200	0.166	2.65	25	50	P11719-ND	5.01	4.11	3.46	2.41	EET-HC2D122CA
	1200	0.166	2.65	30	35	P11720-ND	5.67	4.65	3.91	2.72	EET-HC2D122DA
	1200	0.180	2.65	35	30	P11721-ND	6.03	4.95	4.16	2.90	EET-HC2D122EA
	1500	0.133	2.80	30	40	P11722-ND	5.48	4.64	4.01	3.01	EET-HC2D152DA
	1500	0.144	2.80	35	30	P11723-ND	5.83	4.94	4.27	3.20	EET-HC2D152EA
	1800	0.111	3.08	30	45	P11724-ND	6.14	5.20	4.49	3.37	EET-HC2D182DA
	1800	0.129	3.08	35	40	P11725-ND	6.54	5.54	4.79	3.59	EET-HC2D182EA
	2200	0.090	3.48	30	50	P11726-ND	7.11	6.02	5.20	3.90	EET-HC2D222DA
	2200	0.098	3.48	35	45	P11727-ND	7.49	6.34	5.48	4.11	EET-HC2D222EA
250	270	0.614	1.10	22	25	P11740-ND	3.23	2.59	2.13	1.39	EET-HC2E271BA
	330	0.502	1.20	22	30	P11741-ND	3.06	2.51	2.11	1.47	EET-HC2E331BA
	330	0.502	1.20	25	25	P11742-ND	3.10	2.55	2.14	1.49	EET-HC2E331CA
	390	0.425	1.20	22	30	P13235-ND	3.29	2.86	2.41	1.81	EET-HC2E391BF
	390	0.425	1.30	22	35	P11743-ND	3.29	2.70	2.27	1.58	EET-HC2E391BA
	390	0.425	1.30	25	25	P11744-ND	3.33	2.73	2.30	1.60	EET-HC2E391CA
	470	0.353	1.20	22	35	P13236-ND	3.56	3.08	2.60	1.95	EET-HC2E471BF
	470	0.353	1.40	22	40	P11745-ND	3.58	2.94	2.47	1.72	EET-HC2E471BA
	470	0.353	1.40	25	30	P11746-ND	3.65	3.00	2.52	1.76	EET-HC2E471CA
	470	0.353	1.40	30	25	P11747-ND	4.32	3.54	2.98	2.08	EET-HC2E471DA

(Continued)

Panasonic® TS-Series Large Aluminum Electrolytic Capacitors *(Cont.)*

W.V. DC	Cap. (µF)	Max. ESR @20°C (120Hz)Ω	105° (rms) Ripple Current (120Hz) A	Dim. (mm)		Digi-Key Part No.	Price Each				Panasonic Part No.
				D	L		1	10	50	200	
250	560	0.296	1.40	22	40	P13237-ND	3.87	3.35	2.83	2.13	EET-HC2E561BF
	560	0.296	1.50	22	45	P11748-ND	3.93	3.23	2.71	1.89	EET-HC2E561BA
	560	0.296	1.50	25	35	P11749-ND	3.97	3.26	2.74	1.91	EET-HC2E561CA
	560	0.296	1.50	30	25	P11750-ND	4.70	3.85	3.24	2.26	EET-HC2E561DA
	680	0.244	1.50	22	45	P13238-ND	4.32	3.75	3.16	2.37	EET-HC2E681BF
	680	0.244	1.70	22	50	P11751-ND	4.42	3.63	3.05	2.13	EET-HC2E681BA
	680	0.244	1.70	25	40	P11752-ND	4.42	3.62	3.05	2.12	EET-HC2E681CA
	680	0.244	1.70	30	30	P11753-ND	5.10	4.19	3.52	2.45	EET-HC2E681DA
	820	0.202	2.00	25	45	P11754-ND	4.96	4.07	3.42	2.38	EET-HC2E821CA
	820	0.202	2.00	30	35	P11755-ND	5.64	4.63	3.89	2.71	EET-HC2E821DA
	820	0.202	2.00	35	30	P11756-ND	5.35	4.53	3.91	2.94	EET-HC2E821EA
	1000	0.166	2.20	25	50	P13239-ND	5.83	5.05	4.26	3.20	EET-HC2E102CF
	1000	0.166	2.20	35	30	P13240-ND	6.49	5.62	4.75	3.56	EET-HC2E102EA
	1000	0.166	2.20	30	40	P11736-ND	5.37	4.55	3.93	2.95	EET-HC2E102DA
	1200	0.138	2.30	35	35	P13241-ND	7.48	6.48	5.47	4.10	EET-HC2E122EA
	1200	0.138	2.30	30	45	P11737-ND	6.05	5.12	4.42	3.32	EET-HC2E122DA
	1500	0.111	2.50	35	45	P11738-ND	7.84	6.64	5.74	4.30	EET-HC2E152EA
	1800	0.092	2.50	35	45	P13242-ND	9.75	8.44	7.13	5.35	EET-HC2E182EF
	1800	0.092	2.70	35	50	P11739-ND	8.18	7.05	6.20	4.88	EET-HC2E182EA
350	120	1.382	0.75	22	25	P11780-ND	3.47	2.78	2.29	1.49	EET-HC2V121BA
	150	1.105	0.82	22	30	P11781-ND	3.34	2.74	2.30	1.60	EET-HC2V151BA
	180	0.921	0.90	22	30	P11782-ND	3.99	3.27	2.75	1.92	EET-HC2V181BA
	180	0.921	0.90	25	25	P11783-ND	4.04	3.32	2.79	1.94	EET-HC2V181CA
	220	0.754	1.00	22	35	P11784-ND	4.11	3.37	2.83	1.97	EET-HC2V221BA
	220	0.754	1.00	25	30	P11785-ND	4.12	3.38	2.84	1.98	EET-HC2V221CA
	270	0.614	1.10	25	35	P11786-ND	4.59	3.77	3.17	2.21	EET-HC2V271CA
	270	0.614	1.10	30	25	P11787-ND	5.40	4.43	3.72	2.59	EET-HC2V271DA
	330	0.502	1.20	25	40	P11788-ND	5.25	4.31	3.62	2.52	EET-HC2V331CA
	330	0.502	1.20	30	30	P11789-ND	5.93	4.86	4.09	2.85	EET-HC2V331DA
	390	0.425	1.30	25	45	P11790-ND	5.83	4.78	4.02	2.80	EET-HC2V391CA
	390	0.425	1.30	30	35	P11791-ND	5.56	4.71	4.07	3.05	EET-HC2V391DA
	470	0.353	1.40	25	50	P11792-ND	5.82	4.93	4.26	3.19	EET-HC2V471CA
	470	0.353	1.40	35	30	P11793-ND	6.42	5.43	4.69	3.52	EET-HC2V471EA
	560	0.296	1.50	30	45	P11794-ND	7.02	5.94	5.13	3.85	EET-HC2V561DA
	560	0.296	1.50	35	35	P11795-ND	7.18	6.08	5.25	3.94	EET-HC2V561EA
	680	0.244	1.70	30	50	P11796-ND	8.15	6.90	5.96	4.47	EET-HC2V681DA
	680	0.244	1.70	35	40	P11797-ND	8.19	6.93	5.99	4.49	EET-HC2V681EA
	820	0.202	1.90	35	45	P11798-ND	8.48	7.31	6.43	5.06	EET-HC2V821EA
400	100	1.824	0.70	22	25	P11757-ND	3.08	2.53	2.12	1.48	EET-HC2G101BA
	120	1.520	0.75	22	30	P11758-ND	3.35	2.75	2.31	1.61	EET-HC2G121BA
	150	1.216	0.88	22	30	P11759-ND	3.76	3.09	2.59	1.81	EET-HC2G151BA
	180	1.013	0.95	22	35	P11760-ND	4.17	3.42	2.88	2.01	EET-HC2G181BA
	180	1.013	0.95	25	30	P11761-ND	4.20	3.44	2.89	2.02	EET-HC2G181CA
	220	0.829	1.00	22	40	P13243-ND	4.35	3.77	3.19	2.39	EET-HC2G221BF
	220	0.829	1.10	22	45	P11762-ND	4.62	3.79	3.18	2.22	EET-HC2G221BA
	220	0.829	1.10	25	35	P11763-ND	4.64	3.81	3.20	2.23	EET-HC2G221CA
	220	0.829	1.10	30	25	P11764-ND	5.04	4.13	3.47	2.42	EET-HC2G221DA
	270	0.675	1.10	22	45	P13244-ND	5.03	4.36	3.68	2.76	EET-HC2G271BF
	270	0.675	1.22	22	50	P11765-ND	5.33	4.37	3.67	2.56	EET-HC2G271BA
	270	0.675	1.22	25	40	P11766-ND	5.37	4.41	3.71	2.58	EET-HC2G271CA
	270	0.675	1.22	30	30	P11767-ND	6.01	4.93	4.14	2.89	EET-HC2G271DA
	270	0.675	1.22	35	25	P11768-ND	5.32	4.51	3.89	2.92	EET-HC2G271EA
	330	0.553	1.44	25	45	P11769-ND	5.49	4.65	4.02	3.01	EET-HC2G331CA
	330	0.553	1.44	30	35	P11770-ND	5.56	4.71	4.07	3.05	EET-HC2G331DA
	330	0.553	1.44	35	30	P11771-ND	5.93	5.02	4.34	3.26	EET-HC2G331EA
	390	0.468	1.40	30	35	P13245-ND	6.66	5.76	4.87	3.65	EET-HC2G391DF
	390	0.468	1.55	25	50	P11772-ND	6.01	5.09	4.40	3.30	EET-HC2G391CA
	390	0.468	1.55	30	40	P11773-ND	6.45	5.46	4.72	3.54	EET-HC2G391DA
	390	0.468	1.55	35	30	P11774-ND	6.50	5.50	4.75	3.57	EET-HC2G391EA
	470	0.388	1.68	30	45	P11775-ND	7.10	6.01	5.20	3.90	EET-HC2G471DA
	470	0.388	1.68	35	35	P11776-ND	7.56	6.40	5.53	4.15	EET-HC2G471EA
	560	0.326	1.90	30	50	P11777-ND	8.42	7.13	6.16	4.62	EET-HC2G561DA
	560	0.326	1.90	35	40	P11778-ND	7.73	6.67	5.86	4.61	EET-HC2G561EA
	680	0.268	2.12	35	45	P11779-ND	8.93	7.70	6.77	5.33	EET-HC2G681EA
	820	0.202	2.30	35	50	P13246-ND	12.24	10.60	8.95	6.71	EET-HC2G821EA
420	120	1.520	0.74	22	30	P13247-ND	3.47	3.01	2.54	1.91	EET-HC2S121BA
	120	1.520	0.74	25	25	P13248-ND	3.54	3.07	2.59	1.95	EET-HC2S121CA
	150	1.216	0.84	22	35	P13249-ND	3.49	3.03	2.56	1.92	EET-HC2S151BA
	180	1.103	0.91	22	40	P13250-ND	4.22	3.65	3.09	2.32	EET-HC2S181BA
	180	1.103	0.91	25	30	P13251-ND	4.32	3.74	3.16	2.37	EET-HC2S181CA
	220	0.829	1.05	22	45	P13252-ND	4.73	4.10	3.46	2.60	EET-HC2S221BA
	220	0.829	1.05	25	35	P13253-ND	4.76	4.12	3.48	2.61	EET-HC2S221CA
	220	0.829	1.05	30	25	P13254-ND	5.29	4.58	3.87	2.90	EET-HC2S221DA
	270	0.675	1.20	22	50	P13255-ND	5.36	4.65	3.92	2.94	EET-HC2S271BA
	270	0.675	1.20	25	40	P13256-ND	5.37	4.65	3.93	2.95	EET-HC2S271CA
	270	0.675	1.20	30	30	P13257-ND	6.12	5.30	4.47	3.36	EET-HC2S271DA
	270	0.675	1.20	35	25	P13258-ND	6.06	5.25	4.43	3.33	EET-HC2S271EA
	330	0.553	1.42	25	50	P13259-ND	6.62	5.74	4.85	3.64	EET-HC2S331CA
	330	0.553	1.42	30	35	P13260-ND	6.60	5.72	4.83	3.62	EET-HC2S331DA
	330	0.553	1.42	35	35	P13261-ND	6.95	6.02	5.08	3.81	EET-HC2S331EA
	390	0.468	1.55	30	40	P13262-ND	7.34	6.36	5.37	4.03	EET-HC2S391DA
	390	0.468	1.55	35	35	P13263-ND	7.71	6.67	5.64	4.23	EET-HC2S391EA
	470	0.388	1.71	30	45	P13264-ND	8.82	7.63	6.45	4.84	EET-HC2S471DA
	470	0.388	1.71	35	35	P13265-ND	8.68	7.52	6.35	4.76	EET-HC2S471EA
	560	0.326	1.90	30	50	P13266-ND	9.58	8.29	7.00	5.25	EET-HC2S561DA
	560	0.326	1.90	35	45	P13267-ND	9.99	8.65	7.30	5.48	EET-HC2S561EA
	680	0.268	2.10	35	50	P13268-ND	12.09	10.47	8.84	6.63	EET-HC2S681EA
450	100	1.824	0.64	22	30	P11799-ND	3.61	2.97	2.49	1.74	EET-HC2W101BA
	100	1.824	0.64	25	25	P11800-ND	3.69	3.03	2.54	1.77	EET-HC2W101CA
	120	1.520	0.72	22	35	P11801-ND	3.98	3.26	2.74	1.91	EET-HC2W121BA
	120	1.520	0.72	25	30	P11802-ND	4.03	3.31	2.78	1.94	EET-HC2W121CA
	150	1.216	0.79	22	40	P11803-ND	4.51	3.70	3.11	2.17	EET-HC2W151BA
	150	1.216	0.79	25	30	P11804-ND	4.55	3.73	3.14	2.19	EET-HC2W151CA
	150	1.216	0.79	30	25	P11805-ND	5.30	4.35	3.65	2.55	EET-HC2W151DA
	180	1.013	0.79	25	35	P13269-ND	4.79	4.15	3.51	2.63	EET-HC2W181CF
	180	1.013	0.87	22	45	P11806-ND	5.03	4.13	3.47	2.42	EET-HC2W181BA
	180	1.013	0.87	25	40	P11807-ND	5.09	4.18	3.51	2.45	EET-HC2W181CA
	180	1.013	0.87	30	30	P11808-ND	5.81	4.77	4.01	2.79	EET-HC2W181DA
	220	0.829	0.90	22	50	P13270-ND	5.38	4.66	3.94	2.95	EET-HC2W221BA
	220	0.829	1.00	25	45	P11809-ND	5.78	4.74	3.98	2.77	EET-HC2W221CA
	220	0.829	1.00	30	30	P11810-ND	5.36	4.54	3.92	2.94	EET-HC2W221DA
	220	0.829	1.00	35	25	P11811-ND	5.75	4.87	4.20	3.15	EET-HC2W221EA
	270	0.675	1.07	30	35	P13272-ND	6.61	5.72	4.83	3.63	EET-HC2W271DF
	270	0.675	1.19	25	50	P11812-ND	5.79	4.90	4.23	3.18	EET-HC2W271CA
	270	0.675	1.19	30	40	P11813-ND	6.15	5.21	4.50	3.37	EET-HC2W271DA
	270	0.675	1.19	35	30	P11814-ND	6.48	5.49	4.74	3.56	EET-HC2W271EA
450	330	0.553	1.24	30	40	P13273-ND	7.51	6.51	5.50	4.12	EET-HC2W331DF
	330	0.553	1.38	30	45	P11815-ND	7.20	6.10	5.27	3.95	EET-HC2W331DA
	330	0.553	1.38	35	35	P11816-ND	7.18	6.08	5.25	3.94	EET-HC2W331EA
	390	0.468	1.39	30	45	P13274-ND	8.98	7.78	6.57	4.93	EET-HC2W391DF
	390	0.468	1.55	30	50	P11817-ND	8.21	6.95	6.01	4.51	EET-HC2W391DA
	390	0.468	1.55	35	40	P11818-ND	8.26	7.00	6.04	4.53	EET-HC2W391EA
	470	0.388	1.74	35	45	P11819-ND	8.54	7.36	6.47	5.09	EET-HC2W471EA
	560	0.326	1.90	35	50	P11820-ND	9.94	8.57	7.53	5.93	EET-HC2W561EA
TSED Very High Ripple Current 105°C, 3000 Hour Life											
200	270	0.553	1.42	22	25	P11609-ND	3.00	2.40	1.97	1.29	EET-ED2D271BA
	330	0.452	1.56	22	30	P11610-ND	3.11	2.49	2.05	1.34	EET-ED2D331BA
	390	0.383	1.71	22	30	P11611-ND	3.37	2.70	2.22	1.45	EET-ED2D391BA
	390	0.383	1.71	25	25	P11612-ND	3.44	2.75	2.26	1.48	EET-ED2D391CA
	470	0.317	1.85	22	35	P11613-ND	3.18	2.61	2.20	1.53	EET-ED2D471BA
	470	0.317	1.85	25	30	P11614-ND	3.20	2.63	2.21	1.54	EET-ED2D471CA
	560	0.266	2.14	22	40	P11615-ND	3.43	2.82	2.37	1.65	EET-ED2D561BA
	560	0.266	2.14	25	30	P11616-ND	3.46	2.84	2.38	1.66	EET-ED2D561CA
	560	0.266	2.14	30	25	P11617-ND	4.65	3.81	3.21	2.23	EET-ED2D561DA
	680	0.219	2.42	22	45	P11618-ND	3.76	3.09	2.60	1.81	EET-ED2D681BA
	680	0.219	2.42	25	35	P11619-ND	3.81	3.12	2.63	1.83	EET-ED2D681CA
	680	0.219	2.42	30	30	P11620-ND	4.65	3.82	3.21	2.24	EET-ED2D681DA
	820	0.182	2.63	22	50	P11621-ND	4.18	3.43	2.89	2.01	EET-ED2D821BA
	820	0.182	2.63	25	40	P11622-ND	4.18	3.43	2.88	2.01	EET-ED2D821CA
	820	0.182	2.63	30	30	P11623-ND	4.63	3.80	3.19	2.23	EET-ED2D821DA
	820	0.182	2.63	35	25	P11624-ND	5.82	4.77	4.01	2.80	EET-ED2D821EA
	1000	0.149	2.84	25	45	P11600-ND	4.84	3.97	3.34	2.33	EET-ED2D102CA
	1000	0.149	2.84	30	35	P11601-ND	5.65	4.64	3.90	2.72	EET-ED2D102DA
	1000	0.149	2.84	35	30	P11602-ND	5.76	4.73	3.97	2.77	EET-ED2D102EA
	1200	0.124	3.13	30	40	P11603-ND	5.75	4.72	3.96	2.76	EET-ED2D122DA
	1200	0.124	3.13	35	35	P11604-ND	5.29	4.48	3.87	2.91	EET-ED2D122EA
	1500	0.099	3.56	30	50	P11605-ND	5.82	4.93	4.26	3.19	EET-ED2D152DA
	1500	0.099	3.56	35	40	P11606-ND	6.13	5.19	4.48	3.36	EET-ED2D152EA
	1800	0.083	3.84	35	45	P11607-ND	6.81	5.77	4.98	3.74	EET-ED2D182EA
	2200	0.068	4.12	35	50	P11608-ND	8.16	6.91	5.97	4.48	EET-ED2D222EA
250	220	0.678	1.28	22	30	P11628-ND	3.31	2.65	2.18	1.42	EET-ED2E221BA
	270	0.553	1.42	22	30	P11629-ND	3.18	2.61	2.19	1.53	EET-ED2E271BA
	270	0.553	1.42	25	25	P11630-ND	3.24	2.66	2.24	1.56	EET-ED2E271CA
	330	0.452	1.64	22	35	P11631-ND	3.48	2.86	2.40	1.68	EET-ED2E331BA
	330	0.452	1.56	25	30	P11632-ND	3.52	2.89	2.43	1.69	EET-ED2E331CA
	390	0.383	1.72	22	40	P11633-ND	3.78	3.10	2.60	1.82	EET-ED2E391BA
	390	0.383	1.71	25	30	P11634-ND	3.81	3.13	2.63	1.83	EET-ED2E391CA
	390	0.383	1.71	30	25	P11635-ND	4.05	3.32	2.79	1.95	EET-ED2E391DA
	470	0.317	1.85	22	45	P11636-ND	4.15	3.41	2.87	2.00	EET-ED2E471BA
	470	0.317	1.85	25	35	P11637-ND	4.22	3.46	2.91	2.03	EET-ED2E471CA
	470	0.317	1.85	30	30	P11638-ND	4.87	4.00	3.36	2.34	EET-ED2E471DA
	560	0.266	2.14	25	40	P11639-ND	4.66	3.83	3.22	2.24	EET-ED2E561CA
	560	0.266	2.14	30	30	P11640-ND	5.32	4.36	3.67	2.56	EET-ED2E561DA
	680	0.219	2.42	25	45	P11641-ND	5.22	4.29	3.60	2.51	EET-ED2E681CA
	680	0.219	2.42	30	35	P11642-ND	5.92	4.86	4.08	2.84	EET-ED2E681DA
	680	0.219	2.42	35	30	P11643-ND	6.04	4.95	4.16	2.90	EET-ED2E681EA
	820	0.182	2.63	30	40	P11644-ND	5.63	4.77	4.12	3.09	EET-ED2E821DA
	820	0.182	2.63	35	35	P11645-ND	5.74	4.86	4.20	3.15	EET-ED2E821EA
	1000	0.149	2.84	30	50	P11625-ND	6.11	5.17	4.47	3.35	EET-ED2E102DA
	1000	0.149	2.84	35	40	P11626-ND	6.42	5.44	4.70	3.52	EET-ED2E102EA
	1500	0.099	3.56	35	50	P11627-ND	7.88	6.79	5.97	4.70	EET-ED2E152EA
400	82	1.617	0.80	22	25	P11667-ND	3.49	2.79	2.30	1.50	EET-ED2G820BA
	100	1.326	0.91	22	30	P11646-ND	3.29	2.70	2.27	1.58	EET-ED2G101BA
	100	1.326	0.91	25	25	P11647-ND	3.33	2.74	2.30	1.60	EET-ED2G101CA
	150	0.884	1.07	22	40	P11648-ND	4.00	3.29	2.76	1.93	EET-ED2G151BA
	150	0.884	1.07	25	30	P11649-ND	4.02	3.30	2.77	1.93	EET-ED2G151CA
	150	0.884	1.07	30	25	P11650-ND	4.80	3.94	3.31	2.31	EET-ED2G151DA
	180	0.737	1.12	22	45	P11651-ND	4.44	3.64	3.06	2.13	EET-ED2G181BA
	180	0.737	1.12	25	35	P11652-ND	4.47	3.67	3.08	2.15	EET-ED2G181CA
	180	0.737	1.12	30	30	P11653-ND	5.23	4.29	3.60	2.51	EET-ED2G181DA
	220	0.603	1.42	22	50	P11654-ND	5.09	4.17	3.51	2.44	EET-ED2G221BA
	220	0.603	1.42	25	40	P11655-ND	5.03	4.13	3.47	2.42	EET-ED2G221CA
	220	0.603	1.42	30	30	P11656-ND	5.46	4.48	3.76	2.62	EET-ED2G221DA
	220	0.603	1.42	35	25	P11657-ND	5.96	4.89	4.11	2.86	EET-ED2G221EA
	270	0.491	1.56	25	45	P11658-ND	5.76	4.72	3.97	2.77	EET-ED2G271CA
	270	0.491	1.56	30	35	P11659-ND	5.65	4.79	4.13	3.10	EET-ED2G271DA
	270	0.491	1.56	35	30	P11660-ND	5.67	4.80	4.15	3.11	EET-ED2G271EA
	330	0.402	1.71	30	40	P11661-ND	6.07	5.14	4.44	3.33	EET-ED2G331DA
	330	0.402	1.71	35	30	P11662-ND	6.35	5.38	4.64	3.48	EET-ED2G331EA
	390	0.340	1.85	30	45	P11663-ND	7.20	6.10	5.27	3.95	EET-ED2G391DA
	390	0.340	1.85	35	35	P11664-ND	7.13	6.04	5.21	3.91	EET-ED2G391EA
	470	0.282	2.01	35	40	P11665-ND	8.24	6.97	6.02	4.52	EET-ED2G471EA
	560	0.237	2.35	35	45	P11666-ND	8.37	7.22	6.35	4.99	EET-ED2G561EA
450	56	2.368	0.67	22	25	P11690-ND	3.42	2.74	2.25	1.47	EET-ED2W560BA
	68	1.950	0.76	22	30	P11692-ND	3.23	2.65	2.23	1.56	EET-ED2W680BA
	68	1.950	0.76	25	25	P11693-ND	3.29	2.70	2.27	1.58	EET-ED2W680CA
	82	1.617	0.80	22	30	P11694-ND	3.50	2.87	2.41	1.68	EET-ED2W820BA
	82	1.617	0.80	25	25	P11695-ND	3.55	2.92	2.45	1.71	EET-ED2W820CA
	100	1.326	0.91	22	35	P11668-ND	3.87	3.18	2.67	1.86	EET-ED2W101BA
	100	1.326	0.91	25	30	P11669-ND	3.92	3.21	2.70	1.88	EET-ED2W101CA
	120	1.105	1.02	22	40	P11670-ND	4.25	3.49	2.93	2.04	EET-ED2W121BA
	120	1.105	1.02	25	35	P11671-ND	4.30	3.53	2.96	2.07	EET-ED2W121CA
	120	1.105	1.02	30	25	P11672-ND	5.01	4.11	3.45	2.40	EET-ED2W121DA
	150	0.884	1.07	22	45	P11673-ND	4.88	4.00	3.36	2.34	EET-ED2W151BA
	150	0.884	1.07	25	40	P11674-ND	4.91	4.03	3.39	2.36	EET-ED2W151CA
	150	0.884	1.07	30	30	P11675-ND	5.15	4.23	3.55	2.48	EET-ED2W151DA
	150	0.884	1.07	35	25	P11676-ND	5.74	4.71	3.96	2.76	EET-ED2W151EA
	180	0.737	1.12	22	50	P11677-ND	5.55	4.55	3.83	2.67	EET-ED2W181BA
	180	0.737	1.12	25	40	P11678-ND	5.51	4.52	3.80	2.65	EET-ED2W181CA
	180	0.737	1.12	30	30	P11679-ND	5.27	4.47	3.86	2.89	EET-ED2W181DA
	180	0.737	1.12	35	25	P11680-ND	5.42	4.59	3.97	2.98	EET-ED2W181EA
	220	0.603	1.42	25	45	P11681-ND	5.51	4.67	4.03	3.03	EET-ED2W221CA
	220	0.603	1.42	30	35	P11682-ND	5.57	4.72	4.07	3.06	EET-ED2W221DA
	220	0.603	1.42	35	30	P11683-ND	5.90	4.99	4.31	3.24	EET-ED2W221EA
	270	0.491	1.72	30	40	P11684-ND	6.41	5.43	4.69	3.52	EET-ED2W271DA
	270	0.491	1.72	35	35	P11685-ND	6.73	5.70	4.93	3.70	EET-ED2W271EA
	330	0.402	1.85	30	50	P11686-ND	7.52	6.37	5.50	4.13	EET-ED2W331DA
	330	0.402	1.85	35	40	P11687-ND	7.86	6.66	5.75	4.31	EET-ED2W331EA
	390	0.340	1.97	35	40	P11688-ND	8.01	6.91	6.07	4.78	EET-ED2W391EA
	470	0.282	2.47	35	50	P11689-ND	9.34	8.05	7.08	5.57	EET-ED2W471EA
	560	0.236	3.50	35	63	P11691-ND	11.92	10.51	9.43	7.81	EET-ED2W561EA

Panasonic® T-UP Series Snap-In Capacitors

4 Pin Terminal

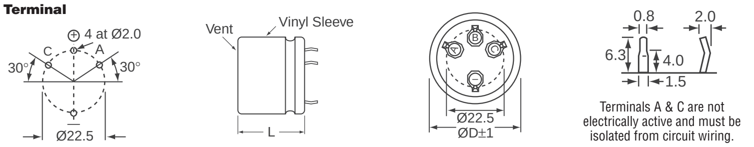

Terminals A & C are not electrically active and must be isolated from circuit wiring.

5 Pin Terminal

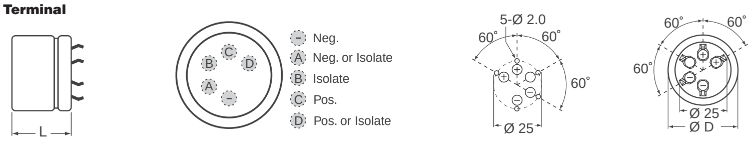

Features:
- 4 or 5 terminal mounting provides stability and keyed polarity
- Replaces T-U series with higher capacitance and ripple current per case size
- General purpose rated at 85°C, 3000 hour endurance
- 35 and 40 mm diameter case sizes up to 80 mm in length for 4 terminal mounting and 105 mm for 5 terminal mounting
- Top vent construction

Rated Working Voltage		16 ~ 250VDC	350 ~ 500VDC
Operating Temperature		-40 ~ 85°C	-25 ~ 85°C
Nominal Capacitance:	4 Pin	1500 ~ 120000µF	470 ~ 1800µF
	5 Pin	1200~270000µF(±20%Tol.)	220 ~ 2700µF(±20%Tol.)
Endurance:	4 Pin	2000 hours at 85°C with maximum specified ripple current	
	5 Pin	3000 hours at 85°C with maximum specified ripple current	

Rated DC Voltage:	16	25	35	50	63	80	100	200	250	350	400	450	500
Surge Voltage:	20	32	44	63	79	100	125	250	300	400	450	500	550

Capacitance (µF)	Size (mm) D X L	Max. 85°C Ripple (Arms) 120 Hz	10k~100kHz	Max. 20°C 120Hz ESR (Ω)	Digi-Key Part No.	Price Each 1	10	50	Panasonic Part No.
16WV DC • 4 Pin									
68000	35 x 50	9.05	10.41	0.018	P10000-ND	10.21	8.81	6.45	ECE-T1CP683EA
82000	35 x 60	9.94	11.43	0.018	P10001-ND	11.68	10.07	7.38	ECE-T1CP823EA
82000	40 x 50	10.29	11.83	0.019	P10003-ND	8.42	7.26	6.38	ECE-T1CP823FA
100000	35 x 80	11.00	12.65	0.019	P10002-ND	10.11	8.91	8.00	ECE-T1CP104EA
100000	40 x 60	11.36	13.06	0.020	P10004-ND	12.13	10.69	8.00	ECE-T1CP104FA
120000	40 x 80	12.42	14.28	0.018	P10005-ND	13.20	11.63	8.70	ECE-T1CP124FA
25WV DC • 4 Pin									
47000	35 x 50	8.00	9.20	0.017	P10006-ND	10.28	8.86	6.49	ECE-T1EP473EA
56000	35 x 60	8.64	9.94	0.017	P10007-ND	11.68	10.07	7.38	ECE-T1EP563EA
56000	40 x 50	8.96	10.30	0.018	P10009-ND	11.69	10.08	7.38	ECE-T1EP563FA
68000	35 x 80	9.44	10.86	0.017	P10008-ND	11.56	10.19	7.62	ECE-T1EP683EA
68000	40 x 60	9.76	11.22	0.018	P10010-ND	12.10	10.66	7.98	ECE-T1EP683FA
100000	40 x 80	11.68	13.43	0.018	P10011-ND	13.36	12.08	9.21	ECE-T1EP104FA
35WV DC • 4 Pin									
33000	35 x 50	7.15	8.22	0.018	P10012-ND	10.80	9.31	6.82	ECE-T1VP333EA
39000	35 x 60	7.94	9.13	0.015	P10013-ND	12.31	10.61	7.78	ECE-T1VP393EA
39000	40 x 50	7.79	8.96	0.017	P10015-ND	10.96	9.66	7.23	ECE-T1VP393FA
47000	35 x 80	9.53	10.96	0.015	P10014-ND	12.13	10.69	8.00	ECE-T1VP473EA
47000	40 x 60	8.58	9.87	0.017	P10016-ND	12.72	11.21	8.38	ECE-T1VP473FA
56000	40 x 80	10.17	11.70	0.017	P10017-ND	13.77	12.13	9.08	ECE-T1VP563FA
50WV DC • 4 Pin									
22000	35 x 50	7.57	8.71	0.023	P10018-ND	11.27	9.72	7.12	ECE-T1HP223EA
27000	35 x 60	8.31	9.56	0.018	P10019-ND	13.20	11.38	8.34	ECE-T1HP273EA
27000	40 x 50	8.12	9.34	0.021	P10021-ND	11.72	10.33	7.72	ECE-T1HP273FA
33000	35 x 80	9.23	10.51	0.015	P10020-ND	13.16	11.60	8.68	ECE-T1HP333EA
33000	40 x 60	8.86	10.19	0.018	P10022-ND	13.80	12.16	9.10	ECE-T1HP333FA
39000	40 x 80	9.79	11.26	0.015	P10023-ND	14.92	13.15	9.83	ECE-T1HP393FA
63WV DC • 4 Pin									
12000	35 x 50	7.15	8.22	0.035	P10024-ND	9.96	8.59	6.29	ECE-T1JP123EA
15000	35 x 60	7.71	8.87	0.028	P10025-ND	11.60	10.00	7.32	ECE-T1JP153EA
15000	40 x 50	7.53	8.66	0.033	P10027-ND	11.60	10.00	7.32	ECE-T1JP153FA
18000	35 x 80	9.41	10.82	0.023	P10026-ND	11.39	10.03	7.50	ECE-T1JP183EA
18000	40 x 60	8.28	9.52	0.028	P10028-ND	11.91	10.50	7.85	ECE-T1JP183FA
22000	40 x 80	9.97	11.47	0.023	P10029-ND	13.09	11.54	8.63	ECE-T1JP223FA
80WV DC • 4 Pin									
8200	35 x 50	5.83	6.70	0.051	P10030-ND	9.76	8.41	6.16	ECE-T1KP822EA
10000	35 x 60	6.38	7.34	0.041	P10031-ND	11.82	10.19	7.47	ECE-T1KP103EA
10000	40 x 50	6.56	7.54	0.041	P10033-ND	10.08	8.88	6.64	ECE-T1KP103FA
12000	35 x 80	6.92	7.96	0.035	P10032-ND	11.06	9.75	7.29	ECE-T1KP123EA
12000	40 x 60	7.29	8.38	0.035	P10034-ND	11.59	10.22	7.64	ECE-T1KP123FA
15000	40 x 80	8.93	10.27	0.028	P10035-ND	12.84	11.32	8.46	ECE-T1KP153FA
100WV DC • 4 Pin									
6800	35 x 50	6.60	7.59	0.049	P10036-ND	10.26	9.05	6.77	ECE-T2AP682EA
8200	35 x 60	7.05	8.12	0.040	P10037-ND	12.03	10.60	7.93	ECE-T2AP822EA
8200	40 x 50	7.28	8.37	0.040	P10039-ND	11.89	10.48	7.84	ECE-T2AP822FA
10000	35 x 80	7.74	8.90	0.033	P10038-ND	11.96	10.82	8.25	ECE-T2AP103EA
10000	40 x 60	7.97	9.17	0.033	P10040-ND	14.08	12.41	9.28	ECE-T2AP103FA
12000	40 x 80	8.65	9.95	0.026	P10041-ND	13.99	12.66	9.65	ECE-T2AP123FA
200WV DC • 4 Pin									
2200	35 x 50	4.92	6.89	0.113	P10042-ND	10.83	9.34	6.84	ECE-T2DP222EA
2700	35 x 60	5.41	7.57	0.092	P10043-ND	12.11	10.44	7.65	ECE-T2DP272EA
2700	40 x 50	5.41	7.57	0.092	P10045-ND	11.28	9.95	7.44	ECE-T2DP272FA
3300	35 x 80	5.90	8.26	0.075	P10044-ND	12.58	11.09	8.29	ECE-T2DP332EA
3300	40 x 60	5.90	8.26	0.075	P10046-ND	12.60	11.10	8.30	ECE-T2DP332FA
3900	40 x 80	6.40	8.96	0.064	P10047-ND	14.28	12.59	9.41	ECE-T2DP392FA
250WV DC • 4 Pin									
1500	35 x 50	4.04	5.66	0.166	P10048-ND	11.04	9.52	6.98	ECE-T2EP152EA
1800	35 x 60	4.49	6.29	0.138	P10049-ND	12.22	10.54	7.72	ECE-T2EP182EA
1800	40 x 50	4.49	6.29	0.138	P10051-ND	12.75	10.99	8.05	ECE-T2EP182FA
2200	35 x 80	4.94	6.92	0.113	P10050-ND	12.73	11.22	8.39	ECE-T2EP222EA
2200	40 x 60	4.94	6.92	0.113	P10052-ND	12.72	11.21	8.38	ECE-T2EP222FA
2700	40 x 80	5.39	7.55	0.092	P10053-ND	14.78	13.02	9.74	ECE-T2EP272FA
350WV DC • 4 Pin									
680	35 x 50	2.96	4.14	0.366	P10054-ND	11.21	9.66	7.08	ECE-T2VP681EA
1000	35 x 60	3.19	4.47	0.249	P10055-ND	12.61	11.12	8.31	ECE-T2VP102EA
1000	40 x 50	3.19	4.47	0.249	P10057-ND	13.13	11.57	8.65	ECE-T2VP102FA
1200	35 x 80	3.64	5.10	0.207	P10056-ND	14.56	12.83	9.60	ECE-T2VP122EA
1200	40 x 60	3.64	5.10	0.207	P10058-ND	14.64	12.90	9.65	ECE-T2VP122FA
1800	40 x 80	4.10	5.74	0.136	P10059-ND	17.68	16.00	12.19	ECE-T2VP182FA
400WV DC • 4 Pin									
560	35 x 50	2.69	3.77	0.444	P10060-ND	11.10	9.57	7.01	ECE-T2GP561EA
680	35 x 60	2.93	4.10	0.366	P10061-ND	11.05	9.74	7.29	ECE-T2GP681EA
820	40 x 50	3.18	4.45	0.303	P10063-ND	12.83	11.31	8.46	ECE-T2GP821FA
1000	35 x 80	3.42	4.79	0.249	P10062-ND	14.48	12.76	9.54	ECE-T2GP102EA
1000	40 x 60	3.42	4.79	0.249	P10064-ND	14.59	12.86	9.61	ECE-T2GP102FA
1500	40 x 80	3.91	5.47	0.166	P10065-ND	17.62	15.94	12.15	ECE-T2GP152FA
450WV DC • 4 Pin									
470	35 x 50	2.53	3.54	0.529	P10066-ND	12.50	10.78	7.90	ECE-T2WP471EA
560	35 x 60	2.76	3.86	0.444	P10067-ND	13.87	11.96	8.76	ECE-T2WP561EA
680	40 x 50	2.99	4.19	0.366	P10069-ND	14.53	12.80	9.57	ECE-T2WP681FA
820	35 x 80	3.22	4.51	0.303	P10068-ND	14.75	13.34	10.17	ECE-T2WP821EA
820	40 x 60	3.22	4.51	0.303	P10070-ND	16.36	14.41	10.78	ECE-T2WP821FA
1200	40 x 80	3.45	4.83	0.207	P10071-ND	17.40	16.25	12.67	ECE-T2WP122FA
50WV DC • 5 Pin									
33000	50 x 50	10.48	12.05	0.018	P13275-ND	23.17	20.60	15.45	ECE-P1HP333HA
47000	50 x 63	11.54	13.27	0.013	P13276-ND	25.30	22.50	16.87	ECE-P1HP473HA
56000	50 x 80	12.46	14.33	0.012	P13277-ND	27.38	24.34	18.26	ECE-P1HP563HA
68000	50 x 92	13.17	15.15	0.011	P13278-ND	29.93	26.61	19.96	ECE-P1HP683HA
82000	50 x 105	13.87	15.95	0.011	P13279-ND	33.03	29.36	22.02	ECE-P1HP823HA
80WV DC • 5 Pin									
18000	50 x 50	10.00	11.50	0.023	P13280-ND	22.56	20.06	15.04	ECE-P1KP183HA
22000	50 x 63	11.08	12.74	0.019	P13281-ND	24.74	22.00	16.50	ECE-P1KP223HA
27000	50 x 80	12.33	14.18	0.015	P13282-ND	26.67	23.71	17.79	ECE-P1KP273HA
33000	50 x 92	13.37	15.38	0.014	P13283-ND	29.18	25.94	19.46	ECE-P1KP333HA
39000	50 x 105	14.34	16.49	0.013	P13284-ND	31.75	28.22	21.17	ECE-P1KP393HA
100WV DC • 5 Pin									
10000	50 x 50	8.82	10.14	0.033	P13285-ND	22.24	19.77	14.83	ECE-P2AP103HA
15000	50 x 63	10.07	11.58	0.022	P13286-ND	25.81	22.94	17.21	ECE-P2AP153HA
18000	50 x 80	11.00	12.65	0.018	P13287-ND	27.65	24.58	18.44	ECE-P2AP183HA
22000	50 x 92	11.76	13.52	0.015	P13288-ND	30.35	26.98	20.24	ECE-P2AP223HA
27000	50 x 105	12.53	14.41	0.014	P13289-ND	33.82	30.07	22.55	ECE-P2AP273HA
200WV DC • 5 Pin									
3900	35 x 80	6.60	9.24	0.055	P13177-ND	14.32	12.73	9.55	ECE-T2DP392EA
3900	40 x 63	6.81	9.53	0.055	P13178-ND	14.73	13.10	9.83	ECE-T2DP392FX
3900	50 x 50	8.22	11.51	0.055	P13290-ND	23.58	20.97	15.73	ECE-P2DP392HA
4700	50 x 63	9.32	13.05	0.046	P13291-ND	25.26	22.46	16.84	ECE-P2DP472HA
5600	50 x 63	9.57	13.40	0.038	P13292-ND	28.41	25.26	18.94	ECE-P2DP562HA
6800	50 x 80	11.41	15.97	0.032	P13293-ND	30.15	26.80	20.10	ECE-P2DP682HA
8200	50 x 92	13.02	18.23	0.026	P13294-ND	33.06	29.39	22.05	ECE-P2DP822HX
10000	50 x 105	14.17	19.84	0.021	P13295-ND	37.36	33.21	24.91	ECE-P2DP103HA
250WV DC • 5 Pin									
2200	35 x 63	4.70	6.58	0.090	P13179-ND	11.83	10.52	7.89	ECE-T2EP222EX
2700	35 x 80	5.63	7.88	0.074	P13180-ND	14.47	12.87	9.65	ECE-T2EP272EA
2700	40 x 63	5.81	8.13	0.074	P13181-ND	14.97	13.31	9.99	ECE-T2EP272FX
2700	50 x 50	6.77	9.48	0.074	P13296-ND	24.68	21.94	16.46	ECE-P2EP272HA
3300	50 x 50	7.22	10.11	0.060	P13297-ND	26.74	23.77	17.83	ECE-P2EP332HX
3900	40 x 80	7.36	10.30	0.051	P13182-ND	18.52	16.47	12.35	ECE-T2EP392FA
4700	50 x 80	9.65	13.51	0.042	P13298-ND	31.03	27.59	20.69	ECE-P2EP472HA
5600	50 x 80	14.34	20.08	0.036	P13299-ND	33.43	29.72	22.29	ECE-P2EP562HX
6800	50 x 105	12.16	17.02	0.029	P13300-ND	37.38	33.23	24.93	ECE-P2EP682HA
7500	50 x 105	12.56	17.58	0.026	P13301-ND	39.45	35.07	26.31	ECE-P2EP752HA
400WV DC • 5 Pin									
680	40 x 50	3.38	4.73	0.268	P13183-ND	10.48	9.32	6.99	ECE-T2GP681FA
1000	50 x 50	4.76	6.66	0.199	P13302-ND	25.15	22.36	16.77	ECE-P2GP102HA
1200	50 x 50	5.21	7.29	0.166	P13303-ND	26.12	23.23	17.42	ECE-P2GP122HX
1500	50 x 63	6.12	8.57	0.133	P13304-ND	28.34	25.20	18.90	ECE-P2GP152HX
1800	50 x 80	7.09	9.93	0.111	P13305-ND	32.91	29.26	21.95	ECE-P2GP182HX
2200	50 x 92	8.13	11.38	0.090	P13306-ND	33.89	30.13	22.60	ECE-P2GP222HX
2700	50 x 105	9.34	13.08	0.073	P13307-ND	39.28	34.92	26.19	ECE-P2GP272HA
450WV DC • 5 Pin									
470	40 x 35	2.53	3.54	0.423	P13186-ND	11.03	9.81	7.36	ECE-T2WP471FA
680	35 x 80	3.17	4.44	0.293	P13187-ND	14.54	12.93	9.70	ECE-T2WP681EA
820	50 x 50	4.31	6.03	0.263	P13308-ND	26.37	23.44	17.58	ECE-P2WP821HA
1000	40 x 80	4.21	5.89	0.216	P13188-ND	18.45	16.40	12.30	ECE-T2WP102FA
1000	50 x 63	4.96	6.94	0.216	P13309-ND	30.26	26.91	20.18	ECE-P2WP102HA
1200	50 x 63	5.43	7.60	0.180	P13310-ND	33.27	29.58	22.19	ECE-P2WP122HX
1500	50 x 80	6.15	8.61	0.144	P13311-ND	36.92	32.82	24.62	ECE-P2WP152HX
1800	50 x 92	7.02	9.83	0.120	P13312-ND	41.35	36.76	27.57	ECE-P2WP182HX
500WV DC • 5 Pin									
560	50 x 50	3.52	4.93	0.355	P13313-ND	25.04	22.26	16.70	ECE-P2HP561HA
680	50 x 50	3.88	5.43	0.293	P13314-ND	27.77	24.69	18.52	ECE-P2HP681HX
820	50 x 63	4.47	6.26	0.222	P13315-ND	30.74	27.33	20.50	ECE-P2HP821HA
1000	50 x 80	5.05	7.07	0.199	P13316-ND	33.98	30.21	22.66	ECE-P2HP102HA
1200	50 x 80	5.35	7.49	0.166	P13317-ND	36.97	32.87	24.65	ECE-P2HP122HX
1500	50 x 105	6.65	9.31	0.144	P13318-ND	41.45	36.85	27.64	ECE-P2HP152HA

Panasonic® T-HA Series Snap-In Capacitors

4 Pin Terminal

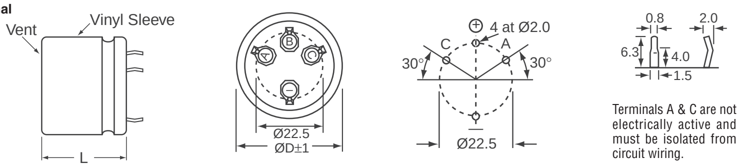

Terminals A & C are not electrically active and must be isolated from circuit wiring.

5 Pin Terminal

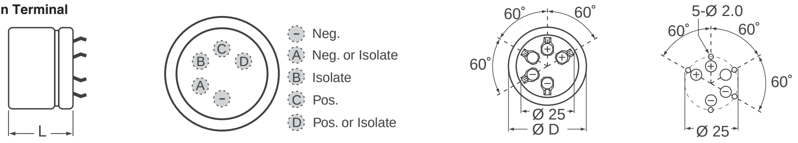

FEATURES:

- 4 or 5 terminal mounting provides stability and keyed polarity
- Replaces T-NHE series with higher capacitance and ripple current per case size
- Industrial grade with 3000 hour endurance at 105° C
- 35 and 40 mm diameter case sizes up to 80 mm in length for 4 terminal mounting and 105 mm for 5 terminal mounting
- Top vent construction

Rated Working Voltage		16 ~ 250VDC	350 ~ 450VDC
Operating Temperature		-40 ~ 105°C	-25 ~ 105°C
Nominal Capacitance:	**4 Pin**	1200 ~ 120000µF	470 ~ 1500µF
	5 Pin	1000~250000µF(±20%Tol.)	330 ~ 2700µF(±20%Tol.)
Endurance:	**4 Pin**	2000 hours at 105°C with maximum specified ripple current	
	5 Pin	3000 hours at 105°C with maximum specified ripple current	

Rated DC Voltage:	16	25	35	50	63	80	100	200	250	350	400	450
Surge Voltage:	20	32	44	63	79	100	125	250	300	400	450	500

Cap (µF)	Size (mm) D X L	Max. 85°C Ripple (Arms)		Max. 20°C 120Hz ESR (Ω)	Digi-Key Part No.	Price Each			Panasonic Part No.
		120 Hz	10k~100kHz			1	10	50	
16WV DC • 4 Pin									
56000	35 x 50	6.00	6.90	0.018	P10612-ND	9.77	8.42	6.17	ECE-T1CA563EA
68000	35 x 60	6.62	7.61	0.017	P10613-ND	9.97	8.79	6.58	ECE-T1CA683EA
68000	40 x 50	7.29	8.38	0.019	P10614-ND	10.01	8.82	6.60	ECE-T1CA683FA
82000	40 x 60	7.29	8.38	0.017	P10615-ND	11.49	10.12	7.57	ECE-T1CA823FA
100000	35 x 80	8.03	9.23	0.015	P10616-ND	12.30	10.84	8.11	ECE-T1CA104EA
120000	40 x 80	8.79	10.11	0.014	P10617-ND	12.55	11.36	8.66	ECE-T1CA124FA
25WV DC • 4 Pin									
33000	35 x 50	5.50	6.33	0.020	P10618-ND	9.23	7.96	5.83	ECE-T1EA333EA
47000	35 x 60	6.56	7.54	0.017	P10619-ND	10.14	8.94	6.68	ECE-T1EA473EA
47000	40 x 50	6.47	7.44	0.019	P10620-ND	10.16	8.95	6.69	ECE-T1EA473FA
56000	35 x 80	7.25	8.34	0.017	P10621-ND	11.10	9.78	7.32	ECE-T1EA563EA
56000	40 x 60	7.17	8.25	0.015	P10622-ND	11.59	10.22	7.64	ECE-T1EA563FA
82000	40 x 80	8.68	9.98	0.014	P10623-ND	12.71	11.49	8.76	ECE-T1EA823FA
35WV DC • 4 Pin									
22000	35 x 50	5.00	5.75	0.026	P10624-ND	9.86	8.50	6.23	ECE-T1VA223EA
27000	35 x 60	5.53	6.36	0.021	P10625-ND	10.15	8.95	6.69	ECE-T1VA273EA
27000	40 x 50	5.44	6.26	0.025	P10626-ND	10.16	8.96	6.70	ECE-T1VA273FA
33000	40 x 60	6.61	7.60	0.020	P10627-ND	11.77	10.37	7.76	ECE-T1VA333FA
39000	35 x 80	6.52	7.50	0.015	P10628-ND	12.39	10.92	8.16	ECE-T1VA393EA
47000	40 x 80	7.79	8.96	0.014	P10629-ND	14.20	12.51	9.36	ECE-T1VA473FA
50WV DC • 4 Pin									
15000	35 x 50	4.80	5.52	0.033	P10630-ND	9.99	8.61	6.31	ECE-T1HA153EA
18000	35 x 60	5.27	6.06	0.028	P10631-ND	10.18	8.97	6.71	ECE-T1HA183EA
22000	40 x 50	5.15	5.92	0.026	P10632-ND	11.31	9.97	7.45	ECE-T1HA223FA
27000	35 x 80	6.16	7.08	0.018	P10633-ND	12.70	11.20	8.37	ECE-T1HA273EA
27000	40 x 60	6.05	6.96	0.021	P10634-ND	13.28	11.70	8.75	ECE-T1HA273FA
39000	40 x 80	7.55	8.68	0.015	P10635-ND	14.66	13.26	10.11	ECE-T1HA393FA
63WV DC • 4 Pin									
12000	35 x 50	4.40	5.06	0.035	P10636-ND	9.39	8.28	6.19	ECE-T1JA123EA
15000	35 x 60	4.92	5.66	0.028	P10637-ND	11.00	9.70	7.25	ECE-T1JA153EA
15000	40 x 50	4.80	5.52	0.033	P10638-ND	10.97	9.67	7.23	ECE-T1JA153FA
18000	35 x 80	5.79	6.66	0.023	P10639-ND	12.12	10.68	7.99	ECE-T1JA183EA
18000	40 x 60	5.39	6.20	0.028	P10640-ND	12.70	11.19	8.37	ECE-T1JA183FA
27000	40 x 80	6.59	7.58	0.018	P10641-ND	14.28	12.92	9.85	ECE-T1JA273FA
80WV DC • 4 Pin									
6800	35 x 50	3.90	4.49	0.061	P10642-ND	9.05	7.98	5.97	ECE-T1KA682EA
8200	35 x 60	4.39	5.05	0.051	P10643-ND	10.47	9.23	6.90	ECE-T1KA822EA
8200	40 x 50	4.29	4.93	0.051	P10644-ND	11.21	9.88	7.39	ECE-T1KA822FA
10000	35 x 80	4.88	5.61	0.041	P10645-ND	12.54	11.05	8.26	ECE-T1KA103EA
10000	40 x 60	4.73	5.44	0.041	P10646-ND	12.51	11.02	8.25	ECE-T1KA103FA
15000	40 x 80	5.97	6.87	0.028	P10647-ND	13.58	12.29	9.37	ECE-T1KA153FA
100WV DC • 4 Pin									
4700	35 x 50	3.80	4.37	0.071	P10648-ND	9.37	8.26	6.18	ECE-T2AA472EA
5600	35 x 60	4.06	4.67	0.059	P10649-ND	10.81	9.52	7.12	ECE-T2AA562EA
6800	40 x 50	4.57	5.26	0.049	P10650-ND	11.96	10.55	7.89	ECE-T2AA682FA
8200	35 x 80	5.15	5.92	0.040	P10651-ND	13.37	11.78	8.81	ECE-T2AA822EA
8200	40 x 60	5.02	5.77	0.040	P10652-ND	12.59	11.39	8.68	ECE-T2AA822FA
12000	40 x 80	6.44	7.41	0.028	P10653-ND	15.70	14.20	10.83	ECE-T2AA123FA
200WV DC • 4 Pin									
2200	35 x 50	2.90	4.06	0.113	P10654-ND	10.41	9.18	6.86	ECE-T2DA222EA
2700	35 x 60	3.65	5.11	0.092	P10655-ND	11.70	10.31	7.71	ECE-T2DA272EA
2700	40 x 50	3.55	4.97	0.092	P10656-ND	12.19	10.74	8.03	ECE-T2DA272FA
3300	35 x 80	4.52	6.33	0.075	P10657-ND	13.71	12.08	9.04	ECE-T2DA332EA
3300	40 x 60	4.40	6.16	0.075	P10658-ND	13.68	12.06	9.02	ECE-T2DA332FA
4700	40 x 80	5.76	8.06	0.053	P10659-ND	15.80	14.29	10.89	ECE-T2DA472FA
250WV DC • 4 Pin									
1200	35 x 50	2.30	3.22	0.207	P10660-ND	10.12	8.92	6.67	ECE-T2EA122EA
1500	35 x 60	2.57	3.60	0.166	P10661-ND	11.48	10.12	7.57	ECE-T2EA152EA
1800	40 x 50	3.15	4.41	0.138	P10662-ND	13.33	11.74	8.78	ECE-T2EA182FA
2200	35 x 80	3.75	5.25	0.113	P10663-ND	13.53	12.24	9.33	ECE-T2EA222EA
2200	40 x 60	3.68	5.15	0.113	P10664-ND	13.47	12.19	9.29	ECE-T2EA222FA
3300	40 x 80	4.68	5.80	0.075	P10665-ND	16.14	15.07	11.75	ECE-T2EA332FA
350WV DC • 4 Pin									
680	35 x 50	2.15	3.01	0.366	P10666-ND	11.13	9.81	7.34	ECE-T2VA681EA
820	35 x 60	2.65	3.71	0.303	P10667-ND	12.43	10.95	8.19	ECE-T2VA821EA
820	40 x 50	2.65	3.71	0.303	P10668-ND	12.93	11.39	8.52	ECE-T2VA821FA
1200	35 x 80	3.22	4.51	0.207	P10669-ND	14.78	13.37	10.19	ECE-T2VA122EA
1200	40 x 60	3.22	4.51	0.207	P10670-ND	14.68	13.27	10.12	ECE-T2VA122FA
1500	40 x 80	3.75	5.25	0.166	P10671-ND	17.59	15.91	12.13	ECE-T2VA152FA
400WV DC • 4 Pin									
560	35 x 50	1.80	2.52	0.444	P10672-ND	11.42	10.07	7.53	ECE-T2GA561EA
680	40 x 50	2.17	3.04	0.366	P10673-ND	13.36	11.77	8.80	ECE-T2GA681FA
820	35 x 60	2.44	3.42	0.303	P10674-ND	14.76	13.01	9.73	ECE-T2GA821EA
1000	35 x 80	3.00	4.20	0.249	P10675-ND	15.36	13.89	10.59	ECE-T2GA102EA
1000	40 x 60	3.00	4.20	0.249	P10676-ND	15.24	13.78	10.51	ECE-T2GA102FA
1200	40 x 80	3.30	4.62	0.207	P10677-ND	17.80	16.10	12.27	ECE-T2GA122FA
450WV DC • 4 Pin									
470	35 x 50	1.74	2.44	0.529	P10678-ND	12.45	10.98	8.21	ECE-T2WA471EA
560	35 x 60	2.15	3.01	0.444	P10679-ND	13.90	12.25	9.16	ECE-T2WA561EA
560	40 x 50	2.10	2.94	0.444	P10680-ND	14.44	12.72	9.52	ECE-T2WA561FA
680	40 x 60	2.50	3.78	0.303	P10681-ND	14.60	13.21	10.07	ECE-T2WA681FA
820	35 x 80	2.70	3.50	0.303	P10682-ND	16.77	15.17	11.56	ECE-T2WA821EA
1000	40 x 80	3.50	4.90	0.249	P10683-ND	19.73	17.84	13.60	ECE-T2WA102FA
50WV DC • 5 Pin									
33000	50 x 50	7.75	8.91	0.018	P13191-ND	23.87	21.22	15.92	ECE-P1HA333HA
39000	50 x 63	8.40	9.66	0.016	P13192-ND	24.82	22.07	16.55	ECE-P1HA393HA
47000	50 x 80	9.19	10.57	0.014	P13193-ND	26.83	23.85	17.89	ECE-P1HA473HA
56000	50 x 92	9.79	11.26	0.012	P13194-ND	29.12	25.89	19.42	ECE-P1HA563HA
68000	50 x 105	10.42	11.98	0.011	P13195-ND	32.03	28.47	21.36	ECE-P1HA683HA
80WV DC • 5 Pin									
12000	50 x 50	6.03	6.93	0.035	P13196-ND	21.76	19.35	14.51	ECE-P1KA123HA
15000	50 x 63	6.65	7.65	0.028	P13197-ND	23.93	21.27	15.96	ECE-P1KA153HA
18000	50 x 80	7.29	8.38	0.026	P13198-ND	25.34	22.53	16.90	ECE-P1KA183HA
22000	50 x 92	7.83	9.00	0.022	P13199-ND	27.55	24.49	18.37	ECE-P1KA223HA
27000	50 x 105	8.38	9.64	0.018	P13200-ND	30.40	27.03	20.27	ECE-P1KA273HA
100WV DC • 5 Pin									
8200	50 x 50	6.14	7.06	0.030	P13201-ND	21.94	19.50	14.63	ECE-P2AA822HA
12000	50 x 63	7.17	8.25	0.022	P13202-ND	24.00	21.34	16.01	ECE-P2AA123HA
15000	50 x 80	8.01	9.21	0.019	P13203-ND	27.77	24.69	18.52	ECE-P2AA153HA
18000	50 x 92	8.64	9.94	0.017	P13204-ND	31.20	27.74	20.81	ECE-P2AA183HA
22000	50 x 105	9.32	10.72	0.015	P13205-ND	33.62	29.89	22.42	ECE-P2AA223HA
200WV DC • 5 Pin									
3300	50 x 50	5.20	7.28	0.075	P13206-ND	23.83	21.19	15.89	ECE-P2DA332HA
3900	50 x 50	5.65	7.91	0.064	P13207-ND	24.99	22.22	16.67	ECE-P2DA392HX
4700	50 x 63	6.48	9.07	0.053	P13208-ND	27.14	24.13	18.10	ECE-P2DA472HX
5600	50 x 92	7.68	10.75	0.044	P13209-ND	29.33	26.07	19.56	ECE-P2DA562HA
6800	50 x 92	8.46	11.84	0.034	P13210-ND	32.18	28.61	21.46	ECE-P2DA682HX
8200	50 x 105	9.56	13.38	0.028	P13211-ND	36.47	32.42	24.32	ECE-P2DA822HA
250WV DC • 5 Pin									
2200	50 x 50	4.35	6.09	0.098	P13212-ND	25.63	22.78	17.09	ECE-P2EA222HA
2700	50 x 50	4.80	6.72	0.080	P13213-ND	27.79	24.70	18.53	ECE-P2EA272HX
3300	50 x 63	5.48	7.67	0.065	P13214-ND	30.27	26.91	20.18	ECE-P2EA332HA
3900	50 x 80	6.10	8.54	0.055	P13215-ND	32.60	28.98	21.74	ECE-P2EA392HA
4300	50 x 92	6.67	9.34	0.050	P13216-ND	33.88	30.12	22.59	ECE-P2EA432HA
4700	50 x 92	6.93	9.70	0.046	P13217-ND	35.89	31.90	23.93	ECE-P2EA472HX
5600	50 x 105	7.67	10.74	0.039	P13218-ND	38.72	34.42	25.82	ECE-P2EA562HA
400WV DC • 5 Pin									
820	40 x 50	2.58	3.61	0.202	P13189-ND	13.64	12.13	9.10	ECE-T2GA821FA
820	50 x 50	3.15	4.41	0.202	P13219-ND	25.51	22.68	17.01	ECE-P2GA821HA
1000	50 x 50	3.45	4.83	0.166	P13220-ND	26.63	23.67	17.76	ECE-P2GA102HA
1200	50 x 63	4.22	5.91	0.152	P13221-ND	28.98	25.76	19.32	ECE-P2GA122HA
1500	50 x 80	5.22	7.31	0.122	P13222-ND	31.12	27.67	20.75	ECE-P2GA152HA
1600	50 x 92	5.69	7.97	0.114	P13223-ND	34.82	30.96	23.22	ECE-P2GA162HA
1800	40 x 105	5.06	7.08	0.101	P13190-ND	36.26	32.23	24.18	ECE-T2GA182FA
1800	50 x 80	5.50	7.70	0.101	P13224-ND	38.32	34.07	25.55	ECE-P2GA182HX
2200	50 x 92	6.55	9.17	0.082	P13225-ND	40.20	35.74	26.81	ECE-P2GA222HA
450WV DC • 5 Pin									
680	50 x 50	2.90	4.06	0.244	P13226-ND	27.12	24.11	18.09	ECE-P2WA681HA
820	50 x 50	3.42	4.79	0.222	P13227-ND	28.72	25.54	19.15	ECE-P2WA821HX
1000	50 x 63	3.74	5.24	0.172	P13228-ND	31.44	27.95	20.97	ECE-P2WA102HA
1200	50 x 80	4.70	6.58	0.152	P13229-ND	34.20	30.40	22.80	ECE-P2WA122HA
1300	50 x 92	5.18	7.25	0.140	P13230-ND	35.67	31.71	23.78	ECE-P2WA132HA
1500	50 x 105	6.03	8.44	0.122	P13231-ND	38.45	34.19	25.64	ECE-P2WA152HA
1800	50 x 105	6.23	8.72	0.101	P13232-ND	41.75	37.12	27.84	ECE-P2WA182HA

Panasonic® AA-Series Computer Grade Capacitors

CROSS REFERENCES

Sprague: 36D, 36DX, 36DE **Mallory:** CGS, CGH **GE:** 23A, 23M **UCC:** 36DA **Philips:** 3186 **CDE:** DCMX

Features:

- Standard 10-32, high post screw threads (included)
- High ripple current capability with low ESR

Specifications:

- Working Voltage Range: 40 ~ 450VDC
- Capacitance Tolerance: -10/+50%
- Operating Temperature: -40°C ~ 85°C
- Rated Endurance: 85°C for 3000 hours
- DC Leakage Current: $3\sqrt{CV}$ (µA) or 5mA maximum after 5 minutes at 20°C

Rated Voltage:	40	250	350	450
Surge Voltage:	50	300	400	500

Ripple Current Frequency Correction Factors

Frequency (Hz):	**50**	**60**	**100 ~ 120**	**300 ~ 360**	**1K**	**10K ~ 50K**
40 WV:	0.9	0.95	1.0	1.05	1.08	1.15
250 ~ 450 WV:	0.75	0.8	1.0	1.2	1.25	1.4

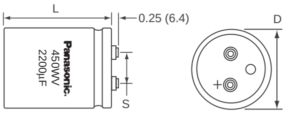

Ripple Current Temperature Correction Factors

Maximum Temperature	**85°C**	**70°C**	**60°C**	**≤45°C**
G-AA	1.0	1.6	2.0	2.2

WV DC	Cap. (µF)	120Hz, 20°C ESR (Ω)	120Hz, 85°C R.C. (A)	Dimensions – Inch (mm) D	L	S	Digi-Key Part No.	Price Each 1	10	50	200	Panasonic Part No.
40	13000	0.034	11.76	2.000 (51)	4.125 (105)	0.875 (22.2)	P10077-ND	17.33	16.19	15.14	13.58	EEG-A1G133FKE
250	550	0.401	2.91	1.375 (35)	4.125 (105)	0.500 (12.7)	P10088-ND	17.52	15.85	14.50	12.47	EEG-A2E551CKE
350	1000	0.221	4.11	2.000 (51)	2.625 (67)	0.875 (22.2)	P10092-ND	25.76	24.06	22.51	20.18	EEG-A2V102FEE
450	1800	0.122	7.47	2.000 (51)	5.625 (143)	0.875 (22.2)	P10096-ND	42.28	39.48	36.93	33.11	EEG-A2W182FPE
Mounting Clamp, 1.375" (34.9mm) diameter with 2 tabs..							P10102-ND	2.57	2.06	1.69	1.11	MC36B2

Panasonic® VS Series Aluminum Electrolytic Capacitors, Surface Mount Type

RoHS COMPLIANT

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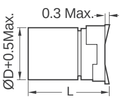

Features: • General Purpose • Life Time: 2000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Soldering: • **Reflow**: 3 - 6mm case 250°C for 5 seconds; 8 - 10mm case 235°C for 5 seconds

Following specified values:

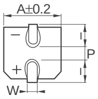

Impedance 120Hz	**Working Voltage 4.0V**	**6.3V**	**10V**	**16V**	**25V**	**35V**	**50V**	**63V**	**100V**
-25°C/+20°C	7	4	3	2	2	2	2	3	3
-40°C/+20°C	15	8	6	4	4	3	3	4	4

Size Code	Dimensions D	L	A	I	W	P
A	3.0	5.4	3.3	1.5	0.55±0.1	0.6
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak Current (µA)	Size Code	Max. Ripple Current 120Hz, 85°C (mA rms)	Endurance (hours)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
4	22	0.37	3.0	A	19	1000	PCE3851CT-ND	.18	.15	.14	.13	PCE3851TR-ND	2,000	67.00/M	EEE-0GS220SR
	33	0.35	3.0	B	26	1000	PCE3849CT-ND	.16	.13	.12	.11	PCE3849TR-ND	2,000	56.00/M	EEE-0GA330SR
	47	0.35	3.0	B	34	1000	PCE3850CT-ND	.16	.13	.12	.11	PCE3850TR-ND	2,000	56.00/M	EEE-0GA470SR
	100	0.35	4.0	C	61	1000	PCE3847CT-ND	.18	.15	.14	.13	PCE3847TR-ND	1,000	67.00	EEE-0GA101SR
	220	0.35	8.8	D	82	1000	PCE3848CT-ND	.22	.18	.17	.15	PCE3848TR-ND	1,000	79.00	EEE-0GA221SP
6.3	22	0.35	3.0	A	20	1000	PCE3865CT-ND	.18	.15	.14	.13	PCE3865TR-ND	2,000	67.00/M	EEE-0JS220WR
	22	0.26	3.0	B	29	2000	PCE3857CT-ND	.16	.13	.12	.11	PCE3857TR-ND	2,000	56.00/M	EEE-0JA220SR
	33	0.35	3.0	B	22	1000	PCE3859CT-ND	.17	.14	.13	.12	PCE3859TR-ND	2,000	62.00/M	EEE-0JA330WR
	47	0.35	3.0	B	36	1000	PCE3863CT-ND	.17	.14	.13	.12	PCE3863TR-ND	2,000	62.00/M	EEE-0JA470WR
	47	0.26	3.0	C	46	2000	PCE3862CT-ND	.18	.15	.14	.13	PCE3862TR-ND	1,000	67.00	EEE-0JA470SR
	100	0.35	6.3	C	47	1000	PCE3853CT-ND	.20	.17	.15	.14	PCE3853TR-ND	1,000	73.00	EEE-0JA101WR
	100	0.26	6.3	D	71	2000	PCE3852CT-ND	.22	.18	.17	.15	PCE3852TR-ND	1,000	79.00	EEE-0JA101SP
	220	0.35	13.9	D	74	1000	PCE3858CT-ND	.26	.21	.20	.18	PCE3858TR-ND	1,000	93.00	EEE-0JA221WP
	330	0.26	20.8	D8	188	2000	PCE3861CT-ND	.29	.24	.23	.21	PCE3861TR-ND	900	96.30	EEE-0JA331XP
	330	0.35	20.8	E	300	2000	PCE3860CT-ND	.35	.29	.27	.25	PCE3860TR-ND	1,000	129.00	EEE-0JA331P
	470	0.35	29.6	F	380	2000	PCE3864CT-ND	.45	.38	.35	.32	PCE3864TR-ND	500	83.50	EEE-0JA471P
	1000	0.35	63.0	F	500	2000	PCE3855CT-ND	.49	.41	.38	.35	PCE3855TR-ND	500	90.50	EEE-0JA102UP
	1000	0.35	63.0	G	700	2000	PCE3854CT-ND	.53	.44	.41	.38	PCE3854TR-ND	500	98.00	EEE-0JA102P
	1500	0.35	94.5	G	750	2000	PCE3856CT-ND	.58	.48	.45	.41	PCE3856TR-ND	500	107.50	EEE-0JA152P
10	22	0.30	3.0	B	28	1000	PCE3869CT-ND	.16	.13	.12	.11	PCE3869TR-ND	2,000	56.00/M	EEE-1AA220WR
	33	0.30	3.3	B	29	1000	PCE3873CT-ND	.17	.14	.13	.12	PCE3873TR-ND	2,000	62.00/M	EEE-1AA330WR
	33	0.20	3.3	C	43	2000	PCE3872CT-ND	.18	.15	.14	.13	PCE3872TR-ND	1,000	67.00	EEE-1AA330SR
	47	0.30	4.7	C	47	1000	PCE3875CT-ND	.20	.17	.15	.14	PCE3875TR-ND	1,000	73.00	EEE-1AA470WR
	100	0.30	10.0	C	50	1000	PCE3867CT-ND	.20	.17	.15	.14	PCE3867TR-ND	1,000	73.00	EEE-1AA101WR
	100	0.26	10.0	D	70	2000	PCE3866CT-ND	.22	.18	.17	.15	PCE3866TR-ND	1,000	79.00	EEE-1AA101SP
	220	0.20	22.0	D8	173	2000	PCE3871CT-ND	.29	.24	.23	.21	PCE3871TR-ND	900	96.30	EEE-1AA221XP
	220	0.26	22.0	E	250	2000	PCE3870CT-ND	.35	.29	.27	.25	PCE3870TR-ND	1,000	129.00	EEE-1AA221P
	330	0.26	33.0	F	390	2000	PCE3874CT-ND	.45	.38	.35	.32	PCE3874TR-ND	500	83.50	EEE-1AA331P
	470	0.26	47.0	F	390	2000	PCE3877CT-ND	.45	.38	.35	.32	PCE3877TR-ND	500	83.50	EEE-1AA471UP
	470	0.26	47.0	G	400	2000	PCE3876CT-ND	.53	.44	.41	.38	PCE3876TR-ND	500	98.00	EEE-1AA471P
	1000	0.26	100.0	G	580	2000	PCE3868CT-ND	.53	.44	.41	.38	PCE3868TR-ND	500	98.00	EEE-1AA102P
16	10	0.18	3.0	A	20	1000	PCE3893CT-ND	.18	.15	.14	.13	PCE3893TR-ND	2,000	67.00/M	EEE-1CS100SR
	10	0.16	3.0	B	28	2000	PCE3878CT-ND	.16	.13	.12	.11	PCE3878TR-ND	2,000	56.00/M	EEE-1CA100SR
	22	0.26	3.5	B	28	1000	PCE3882CT-ND	.17	.14	.13	.12	PCE3882TR-ND	2,000	62.00/M	EEE-1CA220WR
	22	0.16	3.5	C	39	2000	PCE3881CT-ND	.18	.15	.14	.13	PCE3881TR-ND	1,000	67.00	EEE-1CA220SR
	33	0.26	5.3	C	35	1000	PCE3886CT-ND	.20	.17	.15	.14	PCE3886TR-ND	1,000	73.00	EEE-1CA330WR
	47	0.26	7.5	C	39	1000	PCE3890CT-ND	.20	.17	.15	.14	PCE3890TR-ND	1,000	69.00	EEE-1CA470WR
	47	0.16	7.5	D	70	2000	PCE3889CT-ND	.22	.18	.17	.15	PCE3889TR-ND	1,000	79.00	EEE-1CA470SP
	100	0.26	16.0	D	70	1000	PCE3880CT-ND	.26	.21	.20	.18	PCE3880TR-ND	1,000	93.00	EEE-1CA101WP

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Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak Current (µA)	Size Code	Max. Ripple Current 120Hz, 85°C (mA rms)	Endurance (hours)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
16	100	0.20	16.0	E	200	2000	PCE3879CT-ND	.35	.29	.27	.25	PCE3879TR-ND	1,000	129.00	EEE-1CA101P
	220	0.16	35.2	D8	162	2000	PCE3885CT-ND	.29	.24	.23	.21	PCE3885TR-ND	900	96.30	EEE-1CA221XP
	220	0.20	35.2	E	200	2000	PCE3884CT-ND	.35	.29	.27	.25	PCE3884TR-ND	1,000	129.00	EEE-1CA221UP
	220	0.20	35.2	F	280	2000	PCE3883CT-ND	.45	.38	.35	.32	PCE3883TR-ND	500	83.50	EEE-1CA221P
	330	0.20	52.8	F	320	2000	PCE3888CT-ND	.45	.38	.35	.32	PCE3888TR-ND	500	83.50	EEE-1CA331UP
	330	0.20	52.8	G	380	2000	PCE3887CT-ND	.53	.44	.41	.38	PCE3887TR-ND	500	98.00	EEE-1CA331P
	470	0.20	75.2	F	350	2000	PCE3892CT-ND	.49	.41	.38	.35	PCE3892TR-ND	500	90.50	EEE-1CA471UP
	470	0.20	75.2	G	420	2000	PCE3891CT-ND	.53	.44	.41	.38	PCE3891TR-ND	500	98.00	EEE-1CA471P
25	4.7	0.16	3.0	A	12	1000	PCE3911CT-ND	.18	.15	.14	.13	PCE3911TR-ND	2,000	67.00/M	EEE-1ES4R7SR
	4.7	0.14	3.0	B	22	2000	PCE3910CT-ND	.16	.13	.12	.11	PCE3910TR-ND	2,000	56.00/M	EEE-1EA4R7SR
	10	0.20	3.0	B	22	1000	PCE3895CT-ND	.17	.14	.13	.12	PCE3895TR-ND	2,000	62.00/M	EEE-1EA100WR
	10	0.14	3.0	C	28	2000	PCE3894CT-ND	.18	.15	.14	.13	PCE3894TR-ND	1,000	67.00	EEE-1EA100SR
	22	0.20	5.5	C	35	1000	PCE3900CT-ND	.20	.17	.15	.14	PCE3900TR-ND	1,000	73.00	EEE-1EA220WR
	22	0.14	5.5	D	55	2000	PCE3899CT-ND	.22	.18	.17	.15	PCE3899TR-ND	1,000	79.00	EEE-1EA220SP
	33	0.20	8.3	C	42	1000	PCE3904CT-ND	.20	.17	.15	.14	PCE3904TR-ND	1,000	73.00	EEE-1EA330WR
	33	0.14	8.3	D	65	2000	PCE3903CT-ND	.22	.18	.17	.15	PCE3903TR-ND	1,000	79.00	EEE-1EA330SP
	47	0.20	11.8	D	70	1000	PCE3908CT-ND	.26	.21	.20	.18	PCE3908TR-ND	1,000	93.00	EEE-1EA470WP
	100	0.14	25.0	D8	143	2000	PCE3898CT-ND	.29	.24	.23	.21	PCE3898TR-ND	900	96.30	EEE-1EA101XP
	100	0.16	25.0	E	91	2000	PCE3897CT-ND	.35	.29	.27	.25	PCE3897TR-ND	1,000	129.00	EEE-1EA101UP
	100	0.16	25.0	F	180	2000	PCE3896CT-ND	.45	.38	.35	.32	PCE3896TR-ND	500	83.50	EEE-1EA101P
	220	0.16	55.0	F	230	2000	PCE3902CT-ND	.49	.41	.38	.35	PCE3902TR-ND	500	90.50	EEE-1EA221UP
	220	0.16	55.0	G	310	2000	PCE3901CT-ND	.53	.44	.41	.38	PCE3901TR-ND	500	98.00	EEE-1EA221P
	330	0.16	82.5	F	270	2000	PCE3906CT-ND	.49	.41	.38	.35	PCE3906TR-ND	500	90.50	EEE-1EA331UP
	330	0.16	82.5	G	340	2000	PCE3905CT-ND	.53	.44	.41	.38	PCE3905TR-ND	500	98.00	EEE-1EA331P
	470	0.16	117.5	G	380	2000	PCE3909CT-ND	.58	.48	.45	.41	PCE3909TR-ND	500	107.50	EEE-1EA471P
35	2.2	0.14	3.0	A	8	1000	PCE3963CT-ND	.18	.15	.14	.13	PCE3963TR-ND	2,000	67.00/M	EEE-1VS2R2SR
	3.3	0.14	3.0	A	10	1000	PCE3964CT-ND	.18	.15	.14	.13	PCE3964TR-ND	2,000	67.00/M	EEE-1VS3R3SR
	4.7	0.12	3.0	B	22	2000	PCE3962CT-ND	.16	.13	.12	.11	PCE3962TR-ND	2,000	56.00/M	EEE-1VA4R7SR
	10	0.16	3.5	B	22	1000	PCE3948CT-ND	.17	.14	.13	.12	PCE3948TR-ND	2,000	62.00/M	EEE-1VA100WR
	10	0.12	3.5	C	30	2000	PCE3947CT-ND	.18	.15	.14	.13	PCE3947TR-ND	1,000	67.00	EEE-1VA100SR
	22	0.16	7.7	C	36	1000	PCE3953CT-ND	.20	.17	.15	.14	PCE3953TR-ND	1,000	73.00	EEE-1VA220WR
	22	0.12	7.7	D	60	2000	PCE3952CT-ND	.22	.18	.17	.15	PCE3952TR-ND	1,000	79.00	EEE-1VA220SP
	33	0.16	11.6	D	60	1000	PCE3958CT-ND	.26	.21	.20	.18	PCE3958TR-ND	1,000	93.00	EEE-1VA330WP
	33	0.14	11.6	E	130	2000	PCE3956CT-ND	.35	.29	.27	.25	PCE3956TR-ND	1,000	129.00	EEE-1VA330P
	47	0.16	16.5	D	70	1000	PCE3961CT-ND	.26	.21	.20	.18	PCE3961TR-ND	1,000	93.00	EEE-1VA470WP
	47	0.14	16.5	E	165	2000	PCE3960CT-ND	.35	.29	.27	.25	PCE3960TR-ND	1,000	129.00	EEE-1VA470P
	100	0.12	35.0	D8	132	2000	PCE3951CT-ND	.29	.24	.23	.21	PCE3951TR-ND	900	96.30	EEE-1VA101XP
	100	0.14	35.0	F	140	2000	PCE3950CT-ND	.45	.38	.35	.32	PCE3950TR-ND	500	83.50	EEE-1VA101UP
	100	0.14	35.0	G	210	2000	PCE3949CT-ND	.53	.44	.41	.38	PCE3949TR-ND	500	98.00	EEE-1VA101P
	220	0.14	77.0	F	200	2000	PCE3955CT-ND	.49	.41	.38	.35	PCE3955TR-ND	500	90.50	EEE-1VA221UP
	220	0.14	77.0	G	310	2000	PCE3954CT-ND	.53	.44	.41	.38	PCE3954TR-ND	500	98.00	EEE-1VA221P
	330	0.14	115.5	G	350	2000	PCE3959CT-ND	.58	.48	.45	.41	PCE3959TR-ND	500	107.50	EEE-1VA331P
50	0.1	0.14	3.0	A	1	1000	PCE3936CT-ND	.18	.15	.14	.13	PCE3936TR-ND	2,000	67.00/M	EEE-1HS0R1SR
	0.1	0.12	3.0	B	1	2000	PCE3913CT-ND	.16	.13	.12	.11	PCE3913TR-ND	2,000	56.00/M	EEE-1HA0R1SR
	0.22	0.14	3.0	A	2	1000	PCE3938CT-ND	.18	.15	.14	.13	PCE3938TR-ND	2,000	67.00/M	EEE-1HSR22SR
	0.22	0.12	3.0	B	2	2000	PCE3932CT-ND	.16	.13	.12	.11	PCE3932TR-ND	2,000	56.00/M	EEE-1HAR22SR
	0.33	0.14	3.0	A	3	1000	PCE3939CT-ND	.18	.15	.14	.13	PCE3939TR-ND	2,000	67.00/M	EEE-1HSR33SR
	0.33	0.12	3.0	B	3	2000	PCE3933CT-ND	.16	.13	.12	.11	PCE3933TR-ND	2,000	56.00/M	EEE-1HAR33SR
	0.47	0.14	3.0	A	5	1000	PCE3940CT-ND	.18	.15	.14	.13	PCE3940TR-ND	2,000	67.00/M	EEE-1HSR47SR
	0.47	0.12	3.0	B	5	2000	PCE3934CT-ND	.16	.13	.12	.11	PCE3934TR-ND	2,000	56.00/M	EEE-1HAR47SR
	1	0.14	3.0	A	8	1000	PCE3935CT-ND	.18	.15	.14	.13	PCE3935TR-ND	2,000	67.00/M	EEE-1HS010SR
	1	0.12	3.0	B	10	2000	PCE3912CT-ND	.16	.13	.12	.11	PCE3912TR-ND	2,000	56.00/M	EEE-1HA010SR
	2.2	0.14	3.0	A	10	1000	PCE3937CT-ND	.18	.15	.14	.13	PCE3937TR-ND	2,000	67.00/M	EEE-1HS2R2SR
	2.2	0.12	3.0	B	16	2000	PCE3922CT-ND	.16	.13	.12	.11	PCE3922TR-ND	2,000	56.00/M	EEE-1HA2R2SR
	3.3	0.12	3.0	B	16	2000	PCE3926CT-ND	.16	.13	.12	.11	PCE3926TR-ND	2,000	56.00/M	EEE-1HA3R3SR
	4.7	0.14	3.0	B	18	1000	PCE3931CT-ND	.17	.14	.13	.12	PCE3931TR-ND	2,000	62.00/M	EEE-1HA4R7WR
	4.7	0.12	3.0	C	23	2000	PCE3930CT-ND	.18	.15	.14	.13	PCE3930TR-ND	1,000	67.00	EEE-1HA4R7SR
	10	0.14	5.0	C	27	1000	PCE3915CT-ND	.20	.17	.15	.14	PCE3915TR-ND	1,000	73.00	EEE-1HA100WR
	10	0.12	5.0	D	35	2000	PCE3914CT-ND	.22	.18	.17	.15	PCE3914TR-ND	1,000	79.00	EEE-1HA100SP
	22	0.14	11.0	D	40	1000	PCE3920CT-ND	.26	.21	.20	.18	PCE3920TR-ND	1,000	93.00	EEE-1HA220WP
	22	0.12	11.0	E	120	2000	PCE3918CT-ND	.35	.29	.27	.25	PCE3918TR-ND	1,000	129.00	EEE-1HA220P
	33	0.12	16.5	D8	65	2000	PCE3925CT-ND	.29	.24	.23	.21	PCE3925TR-ND	900	96.30	EEE-1HA330XP
	33	0.12	16.5	E	65	2000	PCE3924CT-ND	.35	.29	.27	.25	PCE3924TR-ND	1,000	129.00	EEE-1HA330UP
	33	0.12	16.5	F	110	2000	PCE3923CT-ND	.45	.38	.35	.32	PCE3923TR-ND	500	83.50	EEE-1HA330P
	47	0.12	23.5	D8	105	2000	PCE3929CT-ND	.29	.24	.23	.21	PCE3929TR-ND	900	96.30	EEE-1HA470XP
	47	0.12	23.5	F	110	2000	PCE3928CT-ND	.45	.38	.35	.32	PCE3928TR-ND	500	83.50	EEE-1HA470UP
	47	0.12	23.5	G	130	2000	PCE3927CT-ND	.53	.44	.41	.38	PCE3927TR-ND	500	98.00	EEE-1HA470P
	100	0.12	50.0	F	200	2000	PCE3917CT-ND	.49	.41	.38	.35	PCE3917TR-ND	500	90.50	EEE-1HA101UP
	100	0.12	50.0	G	250	2000	PCE3916CT-ND	.53	.44	.41	.38	PCE3916TR-ND	500	98.00	EEE-1HA101P
	220	0.12	110.0	G	300	2000	PCE3921CT-ND	.58	.48	.45	.41	PCE3921TR-ND	500	107.50	EEE-1HA221P
63	22	0.18	13.9	E	35	2000	PCE3944CT-ND	.39	.32	.30	.28	PCE3944TR-ND	1,000	143.00	EEE-1JA220UP
	22	0.18	13.9	F	40	2000	PCE3943CT-ND	.50	.41	.38	.35	PCE3943TR-ND	500	92.00	EEE-1JA220P
	33	0.18	20.8	F	45	2000	PCE3945CT-ND	.50	.41	.38	.35	PCE3945TR-ND	500	92.00	EEE-1JA330P
	47	0.18	29.6	F	45	2000	PCE3946CT-ND	.50	.41	.38	.35	PCE3946TR-ND	500	92.00	EEE-1JA470UP
	100	0.18	63.0	G	60	2000	PCE3942CT-ND	.58	.48	.45	.41	PCE3942TR-ND	500	107.50	EEE-1JA101P
100	3.3	0.18	3.3	E	50	2000	PCE3970CT-ND	.39	.32	.30	.28	PCE3970TR-ND	1,000	143.00	EEE-2AA3R3P
	4.7	0.18	4.7	E	50	2000	PCE3972CT-ND	.43	.35	.33	.30	PCE3972TR-ND	1,000	157.00	EEE-2AA4R7UP
	4.7	0.18	4.7	F	80	2000	PCE3971CT-ND	.50	.41	.38	.35	PCE3971TR-ND	500	92.00	EEE-2AA4R7P
	10	0.18	10.0	E	50	2000	PCE3966CT-ND	.43	.35	.33	.30	PCE3966TR-ND	1,000	157.00	EEE-2AA100UP
	10	0.18	10.0	F	85	2000	PCE3965CT-ND	.50	.41	.38	.35	PCE3965TR-ND	500	92.00	EEE-2AA100P
	22	0.18	22.0	F	70	2000	PCE3968CT-ND	.54	.45	.42	.39	PCE3968TR-ND	500	100.00	EEE-2AA220UP
	22	0.18	22.0	G	85	2000	PCE3967CT-ND	.58	.48	.45	.41	PCE3967TR-ND	500	107.50	EEE-2AA220P
	33	0.18	33.0	G	90	2000	PCE3969CT-ND	.58	.48	.45	.41	PCE3969TR-ND	500	107.50	EEE-2AA330P

Panasonic® VS Series Aluminum Electrolytic Capacitors, Surface Mount Type

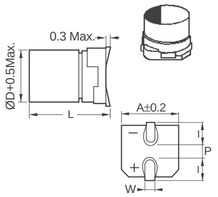

Features: • General Purpose • Life Time: 2000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage 4.0V	6.3V	10V	16V	25V	35V	50V	63V	100V
-25°C/+20°C	7	4	3	2	2	2	2	3	3
-40°C/+20°C	15	8	6	4	4	3	3	4	4

Size Code	Dimensions D	L	A	I	W	P
A	3.0	5.4	3.3	1.5	0.55±0.1	0.6
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
D2	6.3	5.7	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
VS General Purpose Low Profile Series: –40°C ~ 85°C (2000 Hour Life)														
4	22	0.37	3.0	A	19	PCE3051CT-ND	.24	.20	.19	.17	PCE3051TR-ND	2,000	64.00/M	ECE-V0GS220SR
	33	0.35	3.0	B	26	PCE3052CT-ND	.21	.17	.16	.15	PCE3052TR-ND	2,000	53.00/M	ECE-V0GA330SR
	47	0.35	3.0	B	34	PCE3053CT-ND	.21	.17	.16	.15	PCE3053TR-ND	2,000	53.00/M	ECE-V0GA470SR
	100	0.35	4.0	C	61	PCE3054CT-ND	.30	.25	.23	.21	PCE3054TR-ND	1,000	64.00	ECE-V0GA101SR
	220	0.35	8.8	D	82	PCE3055CT-ND	.28	.23	.21	.20	PCE3055TR-ND	1,000	75.00	ECE-V0GA221SP
6.3	22	0.35	3.0	A	20	PCE3308CT-ND	.24	.20	.19	.17	PCE3308TR-ND	2,000	64.00/M	ECE-V0JS220WR
	22	0.26	3.0	B	29	PCE3056CT-ND	.26	.21	.20	.18	PCE3056TR-ND	2,000	53.00/M	ECE-V0JA220SR
	47	0.35	3.0	B	36	PCE3309CT-ND	.23	.19	.18	.16	PCE3309TR-ND	2,000	59.00/M	ECE-V0JA470WR
	47	0.26	3.0	C	46	PCE3057CT-ND	.30	.25	.23	.21	PCE3057TR-ND	1,000	64.00	ECE-V0JA470SR
	100	0.26	6.3	D	71	PCE3058CT-ND	.34	.28	.26	.24	PCE3058TR-ND	1,000	75.00	ECE-V0JA101SP
	220	0.35	13.8	D	74	PCE3310CT-ND	.35	.29	.27	.25	PCE3310TR-ND	1,000	89.00	ECE-V0JA221WP
	330	0.26	20.8	D8	188	PCE3351CT-ND	.43	.35	.33	.30	PCE3351TR-ND	900	91.80	ECE-V0JA331XP
	330	0.35	20.8	E	300	PCE2034CT-ND	.56	.46	.43	.39	PCE2034TR-ND	1,000	123.00	ECE-V0JA331P
	470	0.35	29.6	F	380	PCE2035CT-ND	.55	.46	.42	.39	PCE2035TR-ND	500	79.50	ECE-V0JA471P
	1000	0.35	63.0	F	500	PCE3173CT-ND	.61	.50	.47	.43	PCE3173TR-ND	500	86.50	ECE-V0JA102UP
	1000	0.35	63.0	G	700	PCE2038CT-ND	.69	.57	.53	.49	PCE2038TR-ND	500	93.00	ECE-V0JA102P
	1500	0.35	94.5	G	750	PCE3174CT-ND	.76	.62	.58	.54	PCE3174TR-ND	500	102.00	ECE-V0JA152P
10	33	0.30	3.3	B	29	PCE3175CT-ND	.23	.19	.17	.16	PCE3175TR-ND	2,000	59.00/M	ECE-V1AA330WR
	33	0.20	3.3	C	43	PCE3059CT-ND	.24	.20	.19	.17	PCE3059TR-ND	1,000	64.00	ECE-V1AA330SR
	47	0.20	4.7	D	65	PCE3060CT-ND	.41	.34	.31	.29	PCE3060TR-ND	1,000	142.00	ECE-V1AA470SP
	100	0.30	10.0	C	50	PCE3311CT-ND	.35	.29	.27	.25	PCE3311TR-ND	1,000	69.00	ECE-V1AA101WR
	100	0.26	10.0	D	70	PCE3176CT-ND	.37	.30	.28	.26	PCE3176TR-ND	1,000	75.00	ECE-V1AA101SP
	220	0.20	22.0	D8	173	PCE3352CT-ND	.51	.42	.39	.36	PCE3352TR-ND	900	91.80	ECE-V1AA221XP
	220	0.26	22.0	E	250	PCE2040CT-ND	.51	.42	.39	.36	PCE2040TR-ND	1,000	123.00	ECE-V1AA221P
	330	0.26	33.0	F	390	PCE2041CT-ND	.55	.46	.42	.39	PCE2041TR-ND	500	79.50	ECE-V1AA331P
	470	0.26	47.0	G	400	PCE2042CT-ND	.69	.57	.53	.49	PCE2042TR-ND	500	93.00	ECE-V1AA471P
	470	0.26	47.0	F	390	PCE3177CT-ND	.55	.46	.42	.39	PCE3177TR-ND	500	79.50	ECE-V1AA471UP
	1000	0.26	100.0	G	580	PCE3178CT-ND	.69	.57	.53	.49	PCE3178TR-ND	500	93.00	ECE-V1AA102P
16	10	0.18	3.0	A	20	PCE3061CT-ND	.24	.20	.19	.17	PCE3061TR-ND	2,000	64.00/M	ECE-V1CS100SR
	10	0.16	3.0	B	28	PCE3062CT-ND	.32	.26	.25	.23	PCE3062TR-ND	2,000	53.00/M	ECE-V1CA100SR
	22	0.26	3.5	B	28	PCE3179CT-ND	.29	.24	.22	.21	PCE3179TR-ND	2,000	59.00/M	ECE-V1CA220WR
	22	0.16	3.5	C	39	PCE3063CT-ND	.30	.25	.23	.21	PCE3063TR-ND	1,000	64.00	ECE-V1CA220SR
	33	0.26	5.3	C	35	PCE3180CT-ND	.26	.21	.20	.18	PCE3180TR-ND	1,000	69.00	ECE-V1CA330WR
	47	0.26	7.5	C	39	PCE3181CT-ND	.33	.27	.26	.24	PCE3181TR-ND	1,000	69.00	ECE-V1CA470WR
	47	0.16	7.5	D	70	PCE3064CT-ND	.34	.28	.26	.24	PCE3064TR-ND	1,000	75.00	ECE-V1CA470SP
	100	0.26	16.0	D	70	PCE3182CT-ND	.43	.35	.33	.30	PCE3182TR-ND	1,000	89.00	ECE-V1CA101WP
	100	0.20	16.0	E	200	PCE2043CT-ND	.51	.42	.39	.36	PCE2043TR-ND	1,000	123.00	ECE-V1CA101P
	220	0.16	35.2	D8	162	PCE3353CT-ND	.64	.53	.49	.45	PCE3353TR-ND	900	91.80	ECE-V1CA221XP
	220	0.20	35.2	E	200	PCE3275CT-ND	.64	.53	.49	.45	PCE3275TR-ND	1,000	123.00	ECE-V1CA221UP
	220	0.20	35.2	F	280	PCE2044CT-ND	.77	.63	.59	.54	PCE2044TR-ND	500	79.50	ECE-V1CA221P
	330	0.20	52.8	F	320	PCE3183CT-ND	.81	.67	.62	.57	PCE3183TR-ND	500	79.50	ECE-V1CA331UP
	330	0.20	52.8	G	380	PCE2045CT-ND	.94	.77	.72	.66	PCE2045TR-ND	500	93.00	ECE-V1CA331P
	470	0.20	75.2	F	350	PCE3184CT-ND	.85	.70	.65	.60	PCE3184TR-ND	500	86.50	ECE-V1CA471UP
	470	0.20	75.2	G	420	PCE2046CT-ND	.94	.77	.72	.66	PCE2046TR-ND	500	93.00	ECE-V1CA471P
25	4.7	0.16	3.0	A	12	PCE3065CT-ND	.24	.20	.19	.17	PCE3065TR-ND	2,000	64.00/M	ECE-V1ES4R7SR
	4.7	0.14	3.0	B	22	PCE3066CT-ND	.21	.17	.16	.15	PCE3066TR-ND	2,000	53.00/M	ECE-V1EA4R7SR
	10	0.14	3.0	C	28	PCE3067CT-ND	.34	.28	.26	.24	PCE3067TR-ND	1,000	64.00	ECE-V1EA100SR
	22	0.14	5.5	D	55	PCE3068CT-ND	.28	.23	.21	.20	PCE3068TR-ND	1,000	75.00	ECE-V1EA220SP
	33	0.20	8.3	C	42	PCE3276CT-ND	.33	.27	.26	.24	PCE3276TR-ND	1,000	69.00	ECE-V1EA330WR
	33	0.14	8.3	D	65	PCE3069CT-ND	.34	.28	.26	.24	PCE3069TR-ND	1,000	75.00	ECE-V1EA330SP
	47	0.16	11.8	D2	70	PCE3185CT-ND	.35	.29	.27	.25	PCE3185TR-ND	1,000	95.00	ECE-V1EA470UP
	100	0.14	25.0	D8	143	PCE3354CT-ND	.51	.42	.39	.36	PCE3354TR-ND	900	91.80	ECE-V1EA101XP
	100	0.16	25.0	E	91	PCE3186CT-ND	.51	.42	.39	.36	PCE3186TR-ND	1,000	123.00	ECE-V1EA101UP
	100	0.16	25.0	F	180	PCE2047CT-ND	.64	.53	.49	.45	PCE2047TR-ND	500	79.50	ECE-V1EA101P
	220	0.16	55.0	F	230	PCE3187CT-ND	.68	.56	.52	.48	PCE3187TR-ND	500	86.50	ECE-V1EA221UP
	220	0.16	55.0	G	310	PCE2048CT-ND	.77	.63	.59	.54	PCE2048TR-ND	500	93.00	ECE-V1EA221P
	330	0.16	82.5	F	270	PCE3188CT-ND	.61	.50	.47	.43	PCE3188TR-ND	500	86.50	ECE-V1EA331UP
	470	0.16	117.5	G	380	PCE3189CT-ND	.90	.74	.69	.63	PCE3189TR-ND	500	102.00	ECE-V1EA471P
35	2.2	0.14	3.0	A	8	PCE3070CT-ND	.24	.20	.19	.17	PCE3070TR-ND	2,000	64.00/M	ECE-V1VS2R2SR
	3.3	0.14	3.0	A	10	PCE3071CT-ND	.24	.20	.19	.17	PCE3071TR-ND	2,000	64.00/M	ECE-V1VS3R3SR
	4.7	0.12	3.0	B	22	PCE3072CT-ND	.26	.21	.20	.18	PCE3072TR-ND	2,000	53.00/M	ECE-V1VA4R7SR
	10	0.16	3.5	B	22	PCE3277CT-ND	.29	.24	.22	.21	PCE3277TR-ND	2,000	59.00/M	ECE-V1VA100WR
	10	0.12	3.5	C	30	PCE3073CT-ND	.30	.25	.23	.21	PCE3073TR-ND	1,000	64.00	ECE-V1VA100SR
	22	0.16	7.7	C	36	PCE3278CT-ND	.33	.27	.26	.24	PCE3278TR-ND	1,000	69.00	ECE-V1VA220WR
	22	0.12	7.7	D	60	PCE3074CT-ND	.34	.28	.26	.24	PCE3074TR-ND	1,000	75.00	ECE-V1VA220SP
	33	0.16	11.6	D	60	PCE3279CT-ND	.35	.29	.27	.25	PCE3279TR-ND	1,000	89.00	ECE-V1VA330WP
	33	0.14	11.6	D2	65	PCE3190CT-ND	.35	.29	.27	.25	PCE3190TR-ND	1,000	95.00	ECE-V1VA330UP
	33	0.14	11.6	E	130	PCE2049CT-ND	.43	.35	.33	.30	PCE2049TR-ND	1,000	123.00	ECE-V1VA330P
	47	0.16	16.5	D	70	PCE3280CT-ND	.43	.35	.33	.30	PCE3280TR-ND	1,000	89.00	ECE-V1VA470WP
	47	0.14	16.5	E	165	PCE2050CT-ND	.51	.42	.39	.36	PCE2050TR-ND	1,000	123.00	ECE-V1VA470P
	100	0.12	35.0	D8	132	PCE3355CT-ND	.64	.53	.49	.45	PCE3355TR-ND	900	91.80	ECE-V1VA101XP
	100	0.14	35.0	F	140	PCE3191CT-ND	.77	.63	.59	.54	PCE3191TR-ND	500	79.50	ECE-V1VA101UP
	100	0.14	35.0	G	210	PCE2051CT-ND	.90	.74	.69	.63	PCE2051TR-ND	500	93.00	ECE-V1VA101P
	220	0.14	77.0	F	200	PCE3192CT-ND	.61	.50	.47	.43	PCE3192TR-ND	500	86.50	ECE-V1VA221UP
	330	0.14	115.5	G	350	PCE3193CT-ND	.76	.62	.58	.54	PCE3193TR-ND	500	102.00	ECE-V1VA331P
50	0.1	0.14	3.0	A	1	PCE3075CT-ND	.24	.20	.19	.17	PCE3075TR-ND	2,000	64.00/M	ECE-V1HS0R1SR
	0.1	0.12	3.0	B	1	PCE3076CT-ND	.22	.18	.17	.15	PCE3076TR-ND	2,000	53.00/M	ECE-V1HA0R1SR
	0.22	0.14	3.0	A	2	PCE3077CT-ND	.24	.20	.19	.17	PCE3077TR-ND	2,000	64.00/M	ECE-V1HSR22SR
	0.22	0.12	3.0	B	2	PCE3078CT-ND	.21	.17	.16	.15	PCE3078TR-ND	2,000	53.00/M	ECE-V1HAR22SR
	0.33	0.14	3.0	A	3	PCE3079CT-ND	.24	.20	.19	.17	PCE3079TR-ND	2,000	64.00/M	ECE-V1HSR33SR
	0.33	0.12	3.0	B	3	PCE3080CT-ND	.21	.17	.16	.15	PCE3080TR-ND	2,000	53.00/M	ECE-V1HAR33SR
	0.47	0.14	3.0	A	5	PCE3081CT-ND	.24	.20	.19	.17	PCE3081TR-ND	2,000	64.00/M	ECE-V1HSR47SR
	0.47	0.12	3.0	B	5	PCE3082CT-ND	.21	.17	.16	.15	PCE3082TR-ND	2,000	53.00/M	ECE-V1HAR47SR
	1	0.14	3.0	A	8	PCE3083CT-ND	.24	.20	.19	.17	PCE3083TR-ND	2,000	64.00/M	ECE-V1HS010SR
	1	0.12	3.0	B	10	PCE3084CT-ND	.22	.18	.17	.15	PCE3084TR-ND	2,000	53.00/M	ECE-V1HA010SR
	2.2	0.14	3.0	A	10	PCE3085CT-ND	.24	.20	.19	.17	PCE3085TR-ND	2,000	64.00/M	ECE-V1HS2R2SR
	2.2	0.12	3.0	B	16	PCE3086CT-ND	.21	.17	.16	.15	PCE3086TR-ND	2,000	53.00/M	ECE-V1HA2R2SR
	3.3	0.12	3.0	B	16	PCE3087CT-ND	.26	.21	.20	.18	PCE3087TR-ND	2,000	53.00/M	ECE-V1HA3R3SR
	4.7	0.14	3.0	B	18	PCE3281CT-ND	.23	.19	.18	.16	PCE3281TR-ND	2,000	59.00/M	ECE-V1HA4R7WR
	4.7	0.12	3.0	C	23	PCE3088CT-ND	.24	.20	.19	.17	PCE3088TR-ND	1,000	64.00	ECE-V1HA4R7SR
	10	0.14	5.0	C	27	PCE3282CT-ND	.34	.28	.26	.24	PCE3282TR-ND	1,000	69.00	ECE-V1HA100WR
	10	0.12	5.0	D	35	PCE3089CT-ND	.37	.30	.28	.26	PCE3089TR-ND	1,000	75.00	ECE-V1HA100SP
	22	0.14	11.0	D	40	PCE3283CT-ND	.43	.35	.33	.30	PCE3283TR-ND	1,000	89.00	ECE-V1HA220WP

(Continued)

Panasonic® VS Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
50	22	0.12	11.0	D2	60	PCE3194CT-ND	.43	.35	.33	.30	PCE3194TR-ND	1,000	95.00	ECE-V1HA220UP
	22	0.12	11.0	E	120	PCE2053CT-ND	.51	.42	.39	.36	PCE2053TR-ND	1,000	123.00	ECE-V1HA220P
	33	0.12	16.5	D8	65	PCE3356CT-ND	.43	.35	.33	.30	PCE3356TR-ND	900	91.80	ECE-V1HA330XP
	33	0.12	16.5	E	65	PCE3195CT-ND	.43	.35	.33	.30	PCE3195TR-ND	1,000	123.00	ECE-V1HA330UP
	33	0.12	16.5	F	110	PCE2054CT-ND	.55	.46	.42	.39	PCE2054TR-ND	500	79.50	ECE-V1HA330P
	47	0.12	23.5	D8	105	PCE3357CT-ND	.43	.35	.33	.30	PCE3357TR-ND	900	91.80	ECE-V1HA470XP
	47	0.12	23.5	F	110	PCE3196CT-ND	.55	.46	.42	.39	PCE3196TR-ND	500	79.50	ECE-V1HA470UP
	47	0.12	23.5	G	130	PCE2055CT-ND	.71	.59	.55	.51	PCE2055TR-ND	500	93.00	ECE-V1HA470P
	100	0.12	50.0	F	200	PCE3197CT-ND	.61	.50	.47	.43	PCE3197TR-ND	500	86.50	ECE-V1HA101UP
	220	0.12	110.0	G	300	PCE3198CT-ND	.76	.62	.58	.54	PCE3198TR-ND	500	102.00	ECE-V1HA221P
63	10	0.18	6.3	E	35	PCE3199CT-ND	.35	.29	.27	.25	PCE3199TR-ND	1,000	95.00	ECE-V1JA100P
	22	0.18	13.9	E	35	PCE3284CT-ND	.54	.45	.41	.38	PCE3284TR-ND	1,000	136.00	ECE-V1JA220UP
	22	0.18	13.9	F	40	PCE3200CT-ND	.61	.50	.47	.43	PCE3200TR-ND	500	87.50	ECE-V1JA220P
	33	0.18	20.8	F	45	PCE3201CT-ND	.61	.50	.47	.43	PCE3201TR-ND	500	87.50	ECE-V1JA330P
	47	0.18	29.6	G	50	PCE3202CT-ND	.76	.62	.58	.54	PCE3202TR-ND	500	133.00	ECE-V1JA470P
	100	0.18	63.0	G	60	PCE3203CT-ND	.76	.62	.58	.54	PCE3203TR-ND	500	102.00	ECE-V1JA101P
100	3.3	0.18	3.3	E	50	PCE3204CT-ND	.45	.38	.35	.32	PCE3204TR-ND	1,000	136.00	ECE-V2AA3R3P
	4.7	0.18	4.7	E	50	PCE3285CT-ND	.54	.45	.41	.38	PCE3285TR-ND	1,000	150.00	ECE-V2AA4R7UP
	4.7	0.18	4.7	F	80	PCE3205CT-ND	.61	.50	.47	.43	PCE3205TR-ND	500	87.50	ECE-V2AA4R7P
	10	0.18	10.0	E	50	PCE3286CT-ND	.54	.45	.41	.38	PCE3286TR-ND	1,000	150.00	ECE-V2AA100UP
	10	0.18	10.0	F	85	PCE3206CT-ND	.61	.50	.47	.43	PCE3206TR-ND	500	87.50	ECE-V2AA100P
	22	0.18	22.0	F	70	PCE3287CT-ND	.69	.57	.53	.49	PCE3287TR-ND	500	95.50	ECE-V2AA220UP
	22	0.18	22.0	G	85	PCE3207CT-ND	.76	.62	.58	.54	PCE3207TR-ND	500	102.00	ECE-V2AA220P
	33	0.18	33.0	G	90	PCE3208CT-ND	.76	.62	.58	.54	PCE3208TR-ND	500	102.00	ECE-V2AA330P

Panasonic® *NEW!* VS Bi-Polar Series

Aluminum Electrolytic Capacitors, Surface Mount Type

RoHS COMPLIANT

Size Code	Dimensions D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8

Features: • General Purpose Bi-Polar • Life Time: 1000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at +20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

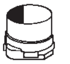

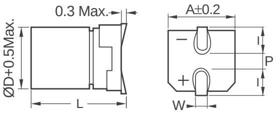

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
-25°C/+20°C	4	3	2	2	2	2
-40°C/+20°C	8	6	4	4	3	3

Rated W.V. (VDC)	Nom. Cap. (µF)	Tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
6.3	22	0.52	6.0	C	29	PCE4286CT-ND	.27	.23	.21	.20	PCE4286TR-ND	1,000	95.00	EEE-0JA220NR
	47	0.52	6.0	D	46	PCE4287CT-ND	.32	.27	.25	.23	PCE4287TR-ND	1,000	113.00	EEE-0JA470NP
10	10	0.40	6.0	B	25	PCE4288CT-ND	.23	.19	.18	.17	PCE4288TR-ND	2,000	80.00/M	EEE-1AA100NR
	33	0.40	6.6	D	43	PCE4289CT-ND	.32	.27	.25	.23	PCE4289TR-ND	1,000	113.00	EEE-1AA330NP
16	4.7	0.32	6.0	B	20	PCE4290CT-ND	.23	.19	.18	.17	PCE4290TR-ND	2,000	80.00/M	EEE-1CA4R7NR
	10	0.32	6.0	C	25	PCE4291CT-ND	.27	.23	.21	.20	PCE4291TR-ND	1,000	95.00	EEE-1CA100NR
	22	0.32	7.0	D	39	PCE4306CT-ND	.32	.27	.25	.23	PCE4306TR-ND	1,000	113.00	EEE-1CA220NP
25	3.3	0.28	6.0	B	12	PCE4292CT-ND	.23	.19	.18	.17	PCE4292TR-ND	2,000	80.00/M	EEE-1EA3R3NR
	4.7	0.28	6.0	C	21	PCE4293CT-ND	.27	.23	.21	.20	PCE4293TR-ND	1,000	95.00	EEE-1EA4R7NR
	10	0.28	6.0	D	28	PCE4294CT-ND	.32	.27	.25	.23	PCE4294TR-ND	1,000	113.00	EEE-1EA100NP
35	2.2	0.24	6.0	B	12	PCE4295CT-ND	.23	.19	.18	.17	PCE4295TR-ND	2,000	80.00/M	EEE-1VA2R2NR
	4.7	0.24	6.0	C	22	PCE4296CT-ND	.27	.23	.21	.20	PCE4296TR-ND	1,000	95.00	EEE-1VA4R7NR
	10	0.24	7.0	D	30	PCE4297CT-ND	.32	.27	.25	.23	PCE4297TR-ND	1,000	113.00	EEE-1VA100NP
50	0.22	0.24	6.0	B	2	PCE4298CT-ND	.23	.19	.18	.17	PCE4298TR-ND	2,000	80.00/M	EEE-1HAR22NR
	0.33	0.24	6.0	B	3	PCE4299CT-ND	.23	.19	.18	.17	PCE4299TR-ND	2,000	80.00/M	EEE-1HAR33NR
	0.47	0.24	6.0	B	5	PCE4300CT-ND	.23	.19	.18	.17	PCE4300TR-ND	2,000	80.00/M	EEE-1HAR47NR
	1	0.24	6.0	B	10	PCE4301CT-ND	.23	.19	.18	.17	PCE4301TR-ND	2,000	80.00/M	EEE-1HA010NR
	2.2	0.24	6.0	C	16	PCE4302CT-ND	.27	.23	.21	.20	PCE4302TR-ND	1,000	95.00	EEE-1HA2R2NR
	3.3	0.24	6.0	C	21	PCE4305CT-ND	.27	.23	.21	.20	PCE4305TR-ND	1,000	95.00	EEE-NZ1H3R3R
	3.3	0.24	6.0	D	31	PCE4303CT-ND	.32	.27	.25	.23	PCE4303TR-ND	1,000	113.00	EEE-1HA3R3NP
	4.7	0.24	6.0	D	31	PCE4304CT-ND	.32	.27	.25	.23	PCE4304TR-ND	1,000	113.00	EEE-1HA4R7NP

Panasonic® VS Bi-Polar Series

Aluminum Electrolytic Capacitors, Surface Mount Type

Size Code	Dimensions D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8

Features: • General Purpose Bi-Polar • Life Time: 1000H @ 85°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 85°C • **Capacitance Tolerance:** ±20% (120Hz, +20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at +20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

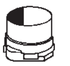

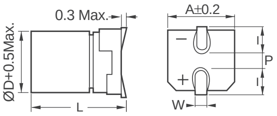

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
-25°C/+20°C	4	3	2	2	2	2
-40°C/+20°C	8	6	4	4	3	3

Rated W.V. (VDC)	Nom. Cap. (µF)	Tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 85°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
6.3	22	0.52	6.0	C	29	PCE3123CT-ND	.37	.30	.28	.26	PCE3123TR-ND	1,000	95.00	ECE-V0JA220NR
	47	0.52	6.0	D	46	PCE3124CT-ND	.42	.34	.32	.30	PCE3124TR-ND	1,000	113.00	ECE-V0JA470NP
10	10	0.40	6.0	B	25	PCE3125CT-ND	.31	.26	.24	.22	PCE3125TR-ND	2,000	80.00/M	ECE-V1AA100NR
	33	0.40	6.6	D	43	PCE3126CT-ND	.42	.34	.32	.30	PCE3126TR-ND	1,000	113.00	ECE-V1AA330NP
16	4.7	0.32	6.0	B	20	PCE3127CT-ND	.31	.26	.24	.22	PCE3127TR-ND	2,000	80.00/M	ECE-V1CA4R7NR
	10	0.32	6.0	C	25	PCE3128CT-ND	.37	.30	.28	.26	PCE3128TR-ND	1,000	95.00	ECE-V1CA100NR
	22	0.32	7.0	D	39	PCE3129CT-ND	.42	.34	.32	.30	PCE3129TR-ND	1,000	113.00	ECE-V1CA220NP
25	3.3	0.28	6.0	B	12	PCE3130CT-ND	.31	.26	.24	.22	PCE3130TR-ND	2,000	80.00/M	ECE-V1EA3R3NR
	4.7	0.28	6.0	C	21	PCE3131CT-ND	.37	.30	.28	.26	PCE3131TR-ND	1,000	95.00	ECE-V1EA4R7NR
	10	0.28	6.0	D	28	PCE3132CT-ND	.43	.35	.33	.30	PCE3132TR-ND	1,000	113.00	ECE-V1EA100NP
35	2.2	0.24	6.0	B	12	PCE3133CT-ND	.31	.26	.24	.22	PCE3133TR-ND	2,000	80.00/M	ECE-V1VA2R2NR
	4.7	0.24	6.0	C	22	PCE3134CT-ND	.37	.30	.28	.26	PCE3134TR-ND	1,000	95.00	ECE-V1VA4R7NR
	10	0.24	7.0	D	30	PCE3135CT-ND	.42	.34	.32	.30	PCE3135TR-ND	1,000	113.00	ECE-V1VA100NP
50	0.22	0.24	6.0	B	2	PCE3136CT-ND	.31	.26	.24	.22	PCE3136TR-ND	2,000	80.00/M	ECE-V1HAR22NR
	0.33	0.24	6.0	B	3	PCE3137CT-ND	.31	.26	.24	.22	PCE3137TR-ND	2,000	80.00/M	ECE-V1HAR33NR
	0.47	0.24	6.0	B	5	PCE3138CT-ND	.31	.26	.24	.22	PCE3138TR-ND	2,000	80.00/M	ECE-V1HAR47NR
	1	0.24	6.0	B	10	PCE3139CT-ND	.31	.26	.24	.22	PCE3139TR-ND	2,000	80.00/M	ECE-V1HA010NR
	2.2	0.24	6.0	C	16	PCE3140CT-ND	.37	.30	.28	.26	PCE3140TR-ND	1,000	95.00	ECE-V1HA2R2NR
	3.3	0.24	6.0	C	21	PCE3141CT-ND	.68	.56	.52	.48	PCE3141TR-ND	1,000	239.00	ECE-V1HA3R3NP
	4.7	0.24	6.0	D	31	PCE3142CT-ND	.42	.34	.32	.30	PCE3142TR-ND	1,000	113.00	ECE-V1HA4R7NP

Panasonic® HA Series Aluminum Electrolytic Capacitors, Surface Mount Type

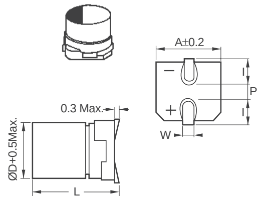

Features: • General Purpose • Life Time: 1000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 min. application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz) • **Soldering Reflow:** 4-6.3mm case size 250°C for five seconds, 8-10mm case size 235°C for five seconds

RoHS COMPLIANT Pb

Following specified values:

Impedance 120Hz	Series	Working Voltage							
		6.3V	10V	16V	25V	35V	50V	63V	100V
-25°C/+20°C -40°C/+20°C	HA	4 8	3 6	2 4	2 4	2 3	2 3	3 4	3 4

Series	Case Code	Dimensions					
		D	L	A	l	W	P
HA	B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
	D8	6.3	7.9	6.6	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (μA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Size	Pricing	
HA Long Life Series: –40°C ~ 105°C (1000 Hour Life)														
6.3	22	0.30	3.0	B	29	PCE4160CT-ND	.18	.15	.14	.13	PCE4160TR-ND	2,000	65.00/M	EEE-HA0J220R
	33	0.35	3.0	B	29	PCE4162CT-ND	.20	.16	.15	.14	PCE4162TR-ND	2,000	71.00/M	EEE-HA0J330WR
	47	0.35	3.0	B	36	PCE4166CT-ND	.20	.16	.15	.14	PCE4166TR-ND	2,000	71.00/M	EEE-HA0J470WR
	47	0.30	3.0	C	46	PCE4165CT-ND	.21	.18	.16	.15	PCE4165TR-ND	1,000	77.00	EEE-HA0J470R
	100	0.35	6.3	C	47	PCE4156CT-ND	.23	.19	.18	.16	PCE4156TR-ND	1,000	84.00	EEE-HA0J101WR
	100	0.30	6.3	D	71	PCE4155CT-ND	.25	.21	.19	.18	PCE4155TR-ND	1,000	91.00	EEE-HA0J101P
	220	0.35	13.8	D	74	PCE4161CT-ND	.29	.24	.23	.21	PCE4161TR-ND	1,000	107.00	EEE-HA0J221WP
	330	0.30	20.8	D8	105	PCE4164CT-ND	.34	.28	.26	.24	PCE4164TR-ND	900	111.60	EEE-HA0J331XP
	330	0.35	20.8	F	230	PCE4163CT-ND	.52	.43	.40	.37	PCE4163TR-ND	500	96.00	EEE-HA0J331P
	470	0.35	29.6	F	300	PCE4167CT-ND	.52	.43	.40	.37	PCE4167TR-ND	500	96.00	EEE-HA0J471UP
	1000	0.35	63.0	F	300	PCE4158CT-ND	.52	.43	.40	.37	PCE4158TR-ND	500	96.00	EEE-HA0J102UP
	1000	0.35	63.0	G	400	PCE4157CT-ND	.61	.50	.47	.43	PCE4157TR-ND	500	112.50	EEE-HA0J102P
	1500	0.35	94.5	G	480	PCE4159CT-ND	.67	.55	.51	.48	PCE4159TR-ND	500	123.50	EEE-HA0J152P
10	22	0.30	3.0	B	28	PCE4171CT-ND	.18	.15	.14	.13	PCE4171TR-ND	2,000	65.00/M	EEE-HA1A220WR
	33	0.30	3.3	B	29	PCE4175CT-ND	.20	.16	.15	.14	PCE4175TR-ND	2,000	71.00/M	EEE-HA1A330WR
	33	0.22	3.3	C	43	PCE4174CT-ND	.21	.18	.16	.15	PCE4174TR-ND	1,000	77.00	EEE-HA1A330R
	47	0.30	4.7	C	43	PCE4176CT-ND	.23	.19	.18	.16	PCE4176TR-ND	1,000	84.00	EEE-HA1A470WR
	100	0.30	10.0	D	71	PCE4169CT-ND	.25	.21	.19	.18	PCE4169TR-ND	1,000	91.00	EEE-HA1A101WP
	100	0.26	10.0	E	110	PCE4168CT-ND	.40	.33	.31	.29	PCE4168TR-ND	1,000	148.00	EEE-HA1A101P
	220	0.22	22.0	D8	105	PCE4173CT-ND	.34	.28	.26	.24	PCE4173TR-ND	900	111.60	EEE-HA1A221XP
	220	0.26	22.0	F	160	PCE4172CT-ND	.52	.43	.40	.37	PCE4172TR-ND	500	96.00	EEE-HA1A221P
	470	0.26	47.0	F	200	PCE4178CT-ND	.52	.43	.40	.37	PCE4178TR-ND	500	96.00	EEE-HA1A471UP
	470	0.26	47.0	G	270	PCE4177CT-ND	.61	.50	.47	.43	PCE4177TR-ND	500	112.50	EEE-HA1A471P
	1000	0.26	100.0	G	400	PCE4170CT-ND	.67	.55	.51	.48	PCE4170TR-ND	500	123.50	EEE-HA1A102P
16	10	0.16	3.0	B	28	PCE4179CT-ND	.18	.15	.14	.13	PCE4179TR-ND	2,000	65.00/M	EEE-HA1C100R
	22	0.26	3.5	B	28	PCE4182CT-ND	.20	.16	.15	.14	PCE4182TR-ND	2,000	71.00/M	EEE-HA1C220WR
	22	0.16	3.5	C	39	PCE4181CT-ND	.21	.18	.16	.15	PCE4181TR-ND	1,000	77.00	EEE-HA1C220R
	33	0.26	5.2	C	35	PCE4186CT-ND	.23	.19	.18	.16	PCE4186TR-ND	1,000	84.00	EEE-HA1C330WR
	47	0.26	7.5	C	39	PCE4190CT-ND	.23	.19	.18	.16	PCE4190TR-ND	1,000	84.00	EEE-HA1C470WR
	47	0.16	7.5	D	70	PCE4189CT-ND	.25	.21	.19	.18	PCE4189TR-ND	1,000	91.00	EEE-HA1C470P
	100	0.26	16.0	D	70	PCE4180CT-ND	.29	.24	.23	.21	PCE4180TR-ND	1,000	107.00	EEE-HA1C101WP
	220	0.16	35.2	D8	105	PCE4185CT-ND	.34	.28	.26	.24	PCE4185TR-ND	900	111.60	EEE-HA1C221XP
	220	0.20	35.2	F	150	PCE4184CT-ND	.52	.43	.40	.37	PCE4184TR-ND	500	96.00	EEE-HA1C221UP
	220	0.20	35.2	G	210	PCE4183CT-ND	.61	.50	.47	.43	PCE4183TR-ND	500	112.50	EEE-HA1C221P
	330	0.20	52.8	F	170	PCE4188CT-ND	.52	.43	.40	.37	PCE4188TR-ND	500	96.00	EEE-HA1C331UP
	330	0.20	52.8	G	230	PCE4187CT-ND	.61	.50	.47	.43	PCE4187TR-ND	500	112.50	EEE-HA1C331P
	470	0.20	75.2	F	340	PCE4192CT-ND	.57	.47	.43	.40	PCE4192TR-ND	500	104.50	EEE-HA1C471UP
	470	0.20	75.2	G	340	PCE4191CT-ND	.61	.50	.47	.43	PCE4191TR-ND	500	112.50	EEE-HA1C471P
25	4.7	0.14	3.0	B	22	PCE4208CT-ND	.18	.15	.14	.13	PCE4208TR-ND	2,000	65.00/M	EEE-HA1E4R7R
	10	0.20	3.0	B	22	PCE4194CT-ND	.20	.16	.15	.14	PCE4194TR-ND	2,000	71.00/M	EEE-HA1E100WR
	10	0.14	3.0	C	28	PCE4193CT-ND	.21	.18	.16	.15	PCE4193TR-ND	1,000	77.00	EEE-HA1E100R
	22	0.20	5.5	C	35	PCE4198CT-ND	.23	.19	.18	.16	PCE4198TR-ND	1,000	84.00	EEE-HA1E220WR
	22	0.14	5.5	D	55	PCE4197CT-ND	.25	.21	.19	.18	PCE4197TR-ND	1,000	91.00	EEE-HA1E220P
	33	0.20	8.2	C	45	PCE4202CT-ND	.23	.19	.18	.16	PCE4202TR-ND	1,000	84.00	EEE-HA1E330WR
	33	0.14	8.3	D	65	PCE4201CT-ND	.25	.21	.19	.18	PCE4201TR-ND	1,000	91.00	EEE-HA1E330P
	47	0.20	11.7	D	70	PCE4206CT-ND	.29	.24	.23	.21	PCE4206TR-ND	1,000	107.00	EEE-HA1E470WP
	47	0.16	11.8	E	91	PCE4205CT-ND	.40	.33	.31	.29	PCE4205TR-ND	1,000	148.00	EEE-HA1E470P
	100	0.16	25.0	E	91	PCE4196CT-ND	.40	.33	.31	.29	PCE4196TR-ND	1,000	148.00	EEE-HA1E101UP
	100	0.16	25.0	F	130	PCE4195CT-ND	.52	.43	.40	.37	PCE4195TR-ND	500	96.00	EEE-HA1E101P
	220	0.16	55.0	F	160	PCE4200CT-ND	.57	.47	.44	.40	PCE4200TR-ND	500	104.50	EEE-HA1E221UP
	220	0.16	55.0	G	190	PCE4199CT-ND	.61	.50	.47	.43	PCE4199TR-ND	500	112.50	EEE-HA1E221P
	330	0.16	82.5	F	180	PCE4204CT-ND	.57	.47	.44	.40	PCE4204TR-ND	500	104.50	EEE-HA1E331UP
	330	0.16	82.5	G	340	PCE4203CT-ND	.61	.50	.47	.43	PCE4203TR-ND	500	112.50	EEE-HA1E331P
	470	0.16	117.5	G	360	PCE4207CT-ND	.67	.55	.51	.48	PCE4207TR-ND	500	123.50	EEE-HA1E471P
35	4.7	0.12	3.0	B	22	PCE4248CT-ND	.18	.15	.14	.13	PCE4248TR-ND	2,000	64.00/M	EEE-HA1V4R7R
	10	0.16	3.5	B	22	PCE4235CT-ND	.20	.16	.15	.14	PCE4235TR-ND	2,000	71.00/M	EEE-HA1V100WR
	10	0.12	3.5	C	30	PCE4234CT-ND	.21	.18	.16	.15	PCE4234TR-ND	1,000	77.00	EEE-HA1V100R
	22	0.16	7.7	C	35	PCE4240CT-ND	.23	.19	.18	.16	PCE4240TR-ND	1,000	84.00	EEE-HA1V220WR
	22	0.12	7.7	D	60	PCE4239CT-ND	.25	.21	.19	.18	PCE4239TR-ND	1,000	91.00	EEE-HA1V220P
	33	0.16	11.5	D	42	PCE4244CT-ND	.29	.24	.23	.21	PCE4244TR-ND	1,000	107.00	EEE-HA1V330WP
	33	0.14	11.6	E	84	PCE4243CT-ND	.40	.33	.31	.29	PCE4243TR-ND	1,000	148.00	EEE-HA1V330P
	47	0.14	16.5	E	84	PCE4247CT-ND	.40	.33	.31	.29	PCE4247TR-ND	1,000	148.00	EEE-HA1V470UP
	47	0.14	16.5	F	98	PCE4246CT-ND	.52	.43	.40	.37	PCE4246TR-ND	500	96.00	EEE-HA1V470P
	100	0.12	35.0	D8	84	PCE4238CT-ND	.34	.28	.26	.24	PCE4238TR-ND	900	111.60	EEE-HA1V101XP
	100	0.14	35.0	F	120	PCE4237CT-ND	.52	.43	.40	.37	PCE4237TR-ND	500	96.00	EEE-HA1V101UP
	100	0.14	35.0	G	160	PCE4236CT-ND	.61	.50	.47	.43	PCE4236TR-ND	500	112.50	EEE-HA1V101P
	220	0.14	77.0	F	170	PCE4242CT-ND	.57	.47	.43	.40	PCE4242TR-ND	500	104.50	EEE-HA1V221UP
	220	0.14	77.0	G	210	PCE4241CT-ND	.61	.50	.47	.43	PCE4241TR-ND	500	112.50	EEE-HA1V221P
	330	0.14	115.5	G	250	PCE4245CT-ND	.67	.55	.51	.48	PCE4245TR-ND	500	123.50	EEE-HA1V331P
50	0.1	0.12	3.0	B	1	PCE4224CT-ND	.18	.15	.14	.13	PCE4224TR-ND	2,000	65.00/M	EEE-HA1HR10R
	0.22	0.12	3.0	B	2	PCE4225CT-ND	.18	.15	.14	.13	PCE4225TR-ND	2,000	65.00/M	EEE-HA1HR22R
	0.33	0.12	3.0	B	3	PCE4226CT-ND	.18	.15	.14	.13	PCE4226TR-ND	2,000	65.00/M	EEE-HA1HR33R
	0.47	0.12	3.0	B	5	PCE4227CT-ND	.18	.15	.14	.13	PCE4227TR-ND	2,000	65.00/M	EEE-HA1HR47R
	1.0	0.12	3.0	B	10	PCE4212CT-ND	.18	.15	.14	.13	PCE4212TR-ND	2,000	65.00/M	EEE-HA1H1R0R
	2.2	0.12	3.0	B	16	PCE4215CT-ND	.18	.15	.14	.13	PCE4215TR-ND	2,000	65.00/M	EEE-HA1H2R2R

(Continued)

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Size	Pricing	
50	3.3	0.12	3.0	B	16	PCE4219CT-ND	.18	.15	.14	.13	PCE4219TR-ND	2,000	65.00/M	EEE-HA1H3R3R
	4.7	0.12	3.0	C	23	PCE4223CT-ND	.21	.18	.16	.15	PCE4223TR-ND	1,000	77.00	EEE-HA1H4R7R
	10	0.12	5.0	D	35	PCE4209CT-ND	.25	.21	.19	.18	PCE4209TR-ND	1,000	91.00	EEE-HA1H100P
	22	0.12	11.0	E	70	PCE4213CT-ND	.40	.33	.31	.29	PCE4213TR-ND	1,000	148.00	EEE-HA1H220P
	33	0.12	16.5	D8	70	PCE4218CT-ND	.34	.28	.26	.24	PCE4218TR-ND	900	111.60	EEE-HA1H33Ï0XP
	33	0.12	16.5	E	70	PCE4217CT-ND	.40	.33	.31	.29	PCE4217TR-ND	1,000	148.00	EEE-HA1H330UP
	33	0.12	16.5	F	91	PCE4216CT-ND	.52	.43	.40	.37	PCE4216TR-ND	500	96.00	EEE-HA1H330P
	47	0.12	23.5	D8	63	PCE4222CT-ND	.34	.28	.26	.24	PCE4222TR-ND	900	111.60	EEE-HA1H470XP
	47	0.12	23.5	F	95	PCE4221CT-ND	.52	.43	.40	.37	PCE4221TR-ND	500	96.00	EEE-HA1H470UP
	47	0.12	23.5	G	100	PCE4220CT-ND	.61	.50	.47	.43	PCE4220TR-ND	500	112.50	EEE-HA1H470P
	100	0.12	50.0	F	110	PCE4211CT-ND	.57	.47	.44	.40	PCE4211TR-ND	500	104.50	EEE-HA1H101UP
	100	0.12	50.0	G	120	PCE4210CT-ND	.61	.50	.47	.43	PCE4210TR-ND	500	112.50	EEE-HA1H101P
	220	0.12	110.0	G	150	PCE4214CT-ND	.67	.55	.51	.48	PCE4214TR-ND	500	123.50	EEE-HA1H221P
63	10	0.18	6.3	E	25	PCE4228CT-ND	.45	.37	.34	.32	PCE4228TR-ND	1,000	165.00	EEE-HA1J100P
	22	0.18	13.9	E	25	PCE4230CT-ND	.49	.41	.38	.35	PCE4230TR-ND	1,000	181.00	EEE-HA1J220UP
	22	0.18	13.9	F	30	PCE4229CT-ND	.57	.47	.43	.40	PCE4229TR-ND	500	104.50	EEE-HA1J220P
	33	0.18	20.8	G	45	PCE4231CT-ND	.67	.55	.51	.48	PCE4231TR-ND	500	123.50	EEE-HA1J330P
	47	0.18	29.7	F	45	PCE4233CT-ND	.57	.47	.43	.40	PCE4233TR-ND	500	104.50	EEE-HA1J470UP
	47	0.18	29.6	G	50	PCE4232CT-ND	.67	.55	.51	.48	PCE4232TR-ND	500	123.50	EEE-HA1J470P
100	3.3	0.18	3.3	E	30	PCE4253CT-ND	.45	.37	.34	.32	PCE4253TR-ND	1,000	165.00	EEE-HA2A3R3P
	4.7	0.18	4.7	E	30	PCE4255CT-ND	.49	.41	.38	.35	PCE4255TR-ND	1,000	181.00	EEE-HA2A4R7UP
	4.7	0.18	4.7	F	50	PCE4254CT-ND	.57	.47	.43	.40	PCE4254TR-ND	500	104.50	EEE-HA2A4R7P
	10	0.18	10.0	F	55	PCE4249CT-ND	.57	.47	.43	.40	PCE4249TR-ND	500	104.50	EEE-HA2A100P
	22	0.18	22.0	F	55	PCE4251CT-ND	.62	.51	.48	.44	PCE4251TR-ND	500	114.50	EEE-HA2A220UP
	22	0.18	22.0	G	60	PCE4250CT-ND	.67	.55	.51	.48	PCE4250TR-ND	500	123.50	EEE-HA2A220P
	33	0.18	33.0	G	65	PCE4252CT-ND	.67	.55	.51	.48	PCE4252TR-ND	500	123.50	EEE-HA2A330P

Panasonic HA Series Aluminum Electrolytic Capacitors, Surface Mount Type

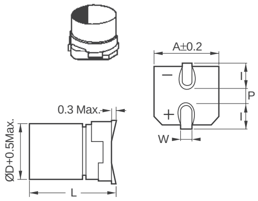

Features: • General Purpose • Life Time: 1000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 min. application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Series	Working Voltage							
		6.3V	10V	16V	25V	35V	50V	63V	100V
-25°C/+20°C -40°C/+20°C	HA	4 8	3 6	2 4	2 4	2 3	2 3	3 4	3 4

Series	Case Code	Dimensions					
		D	L	A	I	W	P
HA	B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
	D8	6.3	7.9	6.6	2.6	0.65±0.1	1.8
	E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
	F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
	G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Size	Pricing	
HA Long Life Series: –40°C ~ 105°C (1000 Hour Life)														
6.3	22	0.30	3.0	B	29	PCE3000CT-ND	.18	.15	.14	.13	PCE3000TR-ND	2,000	61.00/M	EEV-HA0J220R
	47	0.35	3.0	B	36	PCE3288CT-ND	.20	.16	.15	.14	PCE3288TR-ND	2,000	68.00/M	EEV-HA0J470WR
	47	0.30	3.0	C	46	PCE3001CT-ND	.21	.18	.16	.15	PCE3001TR-ND	1,000	73.00	EEV-HA0J470R
	100	0.35	6.3	C	47	PCE3289CT-ND	.23	.19	.18	.16	PCE3289TR-ND	1,000	80.00	EEV-HA0J101WR
	100	0.30	6.3	D	71	PCE3002CT-ND	.25	.21	.19	.18	PCE3002TR-ND	1,000	86.00	EEV-HA0J101P
	220	0.35	13.8	D	74	PCE3290CT-ND	.29	.24	.23	.21	PCE3290TR-ND	1,000	102.00	EEV-HA0J221WP
	330	0.30	20.8	D8	105	PCE3358CT-ND	.34	.28	.26	.24	PCE3358TR-ND	900	106.20	EEV-HA0J331XP
	1000	0.35	63.0	F	300	PCE3209CT-ND	.52	.43	.40	.37	PCE3209TR-ND	500	91.50	EEV-HA0J102UP
	1500	0.35	94.5	G	480	PCE3210CT-ND	.67	.55	.51	.48	PCE3210TR-ND	500	117.50	EEV-HA0J152P
10	33	0.30	3.3	B	29	PCE3291CT-ND	.20	.16	.15	.14	PCE3291TR-ND	2,000	68.00/M	EEV-HA1A330WR
	33	0.22	3.3	C	43	PCE3003CT-ND	.21	.18	.16	.15	PCE3003TR-ND	1,000	73.00	EEV-HA1A330R
	100	0.30	10.0	D	71	PCE3211CT-ND	.25	.21	.19	.18	PCE3211TR-ND	1,000	86.00	EEV-HA1A101WP
	220	0.22	22.0	D8	105	PCE3359CT-ND	.34	.28	.26	.24	PCE3359TR-ND	900	106.20	EEV-HA1A221XP
	470	0.26	47.0	F	200	PCE3212CT-ND	.52	.43	.40	.37	PCE3212TR-ND	500	91.50	EEV-HA1A471UP
	1000	0.26	100.0	G	400	PCE3292CT-ND	.67	.55	.51	.48	PCE3292TR-ND	500	117.50	EEV-HA1A102P
16	10	0.16	3.0	B	28	PCE3004CT-ND	.18	.15	.14	.13	PCE3004TR-ND	2,000	61.00/M	EEV-HA1C100R
	22	0.26	3.5	B	28	PCE3293CT-ND	.20	.16	.15	.14	PCE3293TR-ND	2,000	68.00/M	EEV-HA1C220WR
	22	0.16	3.5	C	39	PCE3005CT-ND	.21	.18	.16	.15	PCE3005TR-ND	1,000	73.00	EEV-HA1C220R
	47	0.26	7.5	C	39	PCE3294CT-ND	.23	.19	.18	.16	PCE3294TR-ND	1,000	80.00	EEV-HA1C470WR
	47	0.16	7.5	D	70	PCE3006CT-ND	.25	.21	.19	.18	PCE3006TR-ND	1,000	86.00	EEV-HA1C470P
	100	0.26	16.0	D	70	PCE3295CT-ND	.29	.24	.23	.21	PCE3295TR-ND	1,000	102.00	EEV-HA1C101WP
	220	0.16	35.2	D8	105	PCE3360CT-ND	.34	.28	.26	.24	PCE3360TR-ND	900	106.20	EEV-HA1C221XP
	220	0.20	35.2	F	150	PCE3213CT-ND	.52	.43	.40	.37	PCE3213TR-ND	500	91.50	EEV-HA1C221UP
	330	0.20	52.8	F	170	PCE3214CT-ND	.52	.43	.40	.37	PCE3214TR-ND	500	91.50	EEV-HA1C331UP
	470	0.20	75.2	F	340	PCE3215CT-ND	.57	.47	.43	.40	PCE3215TR-ND	500	99.00	EEV-HA1C471UP
	470	0.20	75.2	G	340	PCE3216CT-ND	.61	.50	.47	.43	PCE3216TR-ND	500	107.00	EEV-HA1C471P
25	4.7	0.14	3.0	B	22	PCE3007CT-ND	.18	.15	.14	.13	PCE3007TR-ND	2,000	61.00/M	EEV-HA1E4R7R
	10	0.14	3.0	C	28	PCE3008CT-ND	.21	.18	.16	.15	PCE3008TR-ND	1,000	73.00	EEV-HA1E100R
	22	0.14	5.5	D	55	PCE3009CT-ND	.25	.21	.19	.18	PCE3009TR-ND	1,000	86.00	EEV-HA1E220P
	33	0.20	8.2	C	45	PCE3296CT-ND	.23	.19	.18	.16	PCE3296TR-ND	1,000	80.00	EEV-HA1E330WR
	33	0.14	8.3	D	65	PCE3010CT-ND	.25	.21	.19	.18	PCE3010TR-ND	1,000	86.00	EEV-HA1E330P
	47	0.20	11.7	D	70	PCE3297CT-ND	.29	.24	.23	.21	PCE3297TR-ND	1,000	102.00	EEV-HA1E470WP
	47	0.16	11.8	E	91	PCE3217CT-ND	.40	.33	.31	.29	PCE3217TR-ND	1,000	141.00	EEV-HA1E470P
	100	0.16	25.0	E	91	PCE3298CT-ND	.40	.33	.31	.29	PCE3298TR-ND	1,000	141.00	EEV-HA1E101UP
	100	0.16	25.0	F	130	PCE3218CT-ND	.52	.43	.40	.37	PCE3218TR-ND	500	91.50	EEV-HA1E101P
	220	0.16	55.0	F	160	PCE3219CT-ND	.57	.47	.44	.40	PCE3219TR-ND	500	99.50	EEV-HA1E221UP
	330	0.16	82.5	F	180	PCE3220CT-ND	.57	.47	.44	.40	PCE3220TR-ND	500	99.50	EEV-HA1E331UP
	470	0.16	117.5	G	360	PCE3221CT-ND	.67	.55	.51	.48	PCE3221TR-ND	500	117.50	EEV-HA1E471P
35	4.7	0.12	3.0	B	22	PCE3011CT-ND	.18	.15	.14	.13	PCE3011TR-ND	2,000	61.00/M	EEV-HA1V4R7R
	10	0.16	3.5	B	22	PCE3299CT-ND	.20	.16	.15	.14	PCE3299TR-ND	2,000	68.00/M	EEV-HA1V100WR

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Panasonic HA Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Size	Pricing	
35	10	0.12	3.5	C	30	PCE3012CT-ND	.21	.18	.16	.15	PCE3012TR-ND	1,000	73.00	EEV-HA1V100R
	22	0.16	7.7	C	35	PCE3300CT-ND	.23	.19	.18	.16	PCE3300TR-ND	1,000	80.00	EEV-HA1V220WR
	22	0.12	7.7	D	60	PCE3013CT-ND	.25	.21	.19	.18	PCE3013TR-ND	1,000	86.00	EEV-HA1V220P
	33	0.16	11.5	D	42	PCE3301CT-ND	.29	.24	.23	.21	PCE3301TR-ND	1,000	102.00	EEV-HA1V330WP
	33	0.14	11.6	E	84	PCE3222CT-ND	.40	.33	.31	.29	PCE3222TR-ND	1,000	141.00	EEV-HA1V330P
	47	0.14	16.5	E	84	PCE3302CT-ND	.40	.33	.31	.29	PCE3302TR-ND	1,000	141.00	EEV-HA1V470UP
	47	0.14	16.5	F	98	PCE3223CT-ND	.52	.43	.40	.37	PCE3223TR-ND	500	91.50	EEV-HA1V470P
	100	0.12	35.0	D8	84	PCE3361CT-ND	.34	.28	.26	.24	PCE3361TR-ND	900	106.20	EEV-HA1V101XP
	100	0.14	35.0	F	120	PCE3224CT-ND	.52	.43	.40	.37	PCE3224TR-ND	500	91.50	EEV-HA1V101UP
	220	0.14	77.0	F	170	PCE3225CT-ND	.57	.47	.43	.40	PCE3225TR-ND	500	99.00	EEV-HA1V221UP
	220	0.14	77.0	G	210	PCE3226CT-ND	.61	.50	.47	.43	PCE3226TR-ND	500	107.00	EEV-HA1V221P
	330	0.14	115.5	G	250	PCE3227CT-ND	.67	.55	.51	.48	PCE3227TR-ND	500	117.50	EEV-HA1V331P
50	0.1	0.12	3.0	B	1	PCE3014CT-ND	.18	.15	.14	.13	PCE3014TR-ND	2,000	61.00/M	EEV-HA1HR10 R
	0.22	0.12	3.0	B	2	PCE3015CT-ND	.18	.15	.14	.13	PCE3015TR-ND	2,000	61.00/M	EEV-HA1HR22R
	0.33	0.12	3.0	B	3	PCE3016CT-ND	.18	.15	.14	.13	PCE3016TR-ND	2,000	61.00/M	EEV-HA1HR33R
	0.47	0.12	3.0	B	5	PCE3017CT-ND	.18	.15	.14	.13	PCE3017TR-ND	2,000	61.00/M	EEV-HA1HR47R
	1.0	0.12	3.0	B	10	PCE3018CT-ND	.18	.15	.14	.13	PCE3018TR-ND	2,000	61.00/M	EEV-HA1H010R
	2.2	0.12	3.0	B	16	PCE3019CT-ND	.18	.15	.14	.13	PCE3019TR-ND	2,000	61.00/M	EEV-HA1H2R2R
	3.3	0.12	3.0	B	16	PCE3020CT-ND	.18	.15	.14	.13	PCE3020TR-ND	2,000	61.00/M	EEV-HA1H3R3R
	4.7	0.12	3.0	C	23	PCE3021CT-ND	.21	.18	.16	.15	PCE3021TR-ND	1,000	73.00	EEV-HA1H4R7R
	10	0.12	5.0	D	35	PCE3022CT-ND	.25	.21	.19	.18	PCE3022TR-ND	1,000	86.00	EEV-HA1H100P
	22	0.12	11.0	E	70	PCE3228CT-ND	.40	.33	.31	.29	PCE3228TR-ND	1,000	141.00	EEV-HA1H220P
	33	0.12	16.5	D8	70	PCE3362CT-ND	.34	.28	.26	.24	PCE3362TR-ND	900	106.20	EEV-HA1H33Ï0XP
	33	0.12	16.5	E	70	PCE3303CT-ND	.40	.33	.31	.29	PCE3303TR-ND	1,000	141.00	EEV-HA1H330UP
	33	0.12	16.5	F	91	PCE3229CT-ND	.52	.43	.40	.37	PCE3229TR-ND	500	91.50	EEV-HA1H330P
	47	0.12	23.5	D8	63	PCE3363CT-ND	.34	.28	.26	.24	PCE3363TR-ND	900	106.20	EEV-HA1H470XP
	47	0.12	23.5	F	95	PCE3230CT-ND	.52	.43	.40	.37	PCE3230TR-ND	500	91.50	EEV-HA1H470UP
	100	0.12	50.0	F	110	PCE3231CT-ND	.57	.47	.44	.40	PCE3231TR-ND	500	99.50	EEV-HA1H101UP
	100	0.12	50.0	G	120	PCE3232CT-ND	.61	.50	.47	.43	PCE3232TR-ND	500	107.00	EEV-HA1H101P
	220	0.12	110.0	G	150	PCE3233CT-ND	.67	.55	.51	.48	PCE3233TR-ND	500	117.50	EEV-HA1H221P
63	10	0.18	6.3	E	25	PCE3234CT-ND	.45	.37	.34	.32	PCE3234TR-ND	1,000	157.00	EEV-HA1J100P
	22	0.18	13.9	E	25	PCE3304CT-ND	.49	.41	.38	.35	PCE3304TR-ND	1,000	172.00	EEV-HA1J220UP
	22	0.18	13.9	F	30	PCE3235CT-ND	.57	.47	.43	.40	PCE3235TR-ND	500	99.00	EEV-HA1J220P
	33	0.18	20.8	G	45	PCE3236CT-ND	.67	.55	.51	.48	PCE3236TR-ND	500	117.50	EEV-HA1J330P
	47	0.18	29.7	F	45	PCE3305CT-ND	.57	.47	.43	.40	PCE3305TR-ND	500	99.00	EEV-HA1J470UP
	47	0.18	29.6	G	50	PCE3237CT-ND	.67	.55	.51	.48	PCE3237TR-ND	500	117.50	EEV-HA1J470P
100	3.3	0.18	3.3	E	30	PCE3238CT-ND	.45	.37	.34	.32	PCE3238TR-ND	1,000	157.00	EEV-HA2A3R3P
	4.7	0.18	4.7	E	30	PCE3306CT-ND	.49	.41	.38	.35	PCE3306TR-ND	1,000	172.00	EEV-HA2A4R7UP
	4.7	0.18	4.7	F	50	PCE3239CT-ND	.57	.47	.43	.40	PCE3239TR-ND	500	99.00	EEV-HA2A4R7P
	10	0.18	10.0	F	55	PCE3240CT-ND	.57	.47	.43	.40	PCE3240TR-ND	500	99.00	EEV-HA2A100P
	22	0.18	22.0	E	55	PCE3307CT-ND	.62	.51	.48	.44	PCE3307TR-ND	500	109.00	EEV-HA2A220UP
	22	0.18	22.0	G	60	PCE3241CT-ND	.67	.55	.51	.48	PCE3241TR-ND	500	117.50	EEV-HA2A220P
	33	0.18	33.0	G	65	PCE3242CT-ND	.67	.55	.51	.48	PCE3242TR-ND	500	117.50	EEV-HA2A330P

Panasonic HB Series Aluminum Electrolytic Capacitors, Surface Mount Type

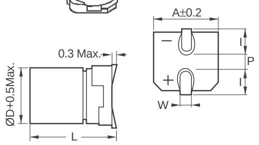

Features: • General Purpose • Life Time: 2000H @105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz) • **Soldering Reflow:** 250°C for five seconds

Following specified values:

Impedance 120Hz		Working Voltage						
	Series	4.0V	6.3V	10V	16V	25V	35V	50V
-25°C/+20°C -40°C/+20°C	HB	7 15	4 8	3 6	2 4	2 4	2 3	2 3

RoHS COMPLIANT Pb

Series	Case Code	Dimensions					
		D	L	A	I	W	P
HB	B	4.0	5.8	4.3	1.8	0.65±0.1	1.0
	C	5.0	5.8	5.3	2.2	0.65±0.1	1.5
	D	6.3	5.8	6.6	2.6	0.65±0.1	1.8

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Size	Pricing	
HB Long Life High Reliability Series: –40°C ~ 105°C (2000 Hour Life)														
4	47	0.50	3.0	B	34	PCE4131CT-ND	.19	.15	.14	.13	PCE4131TR-ND	2,000	67.00/M	EEE-HB0G470R
	100	0.50	4.0	C	61	PCE4129CT-ND	.22	.18	.17	.16	PCE4129TR-ND	1,000	80.00	EEE-HB0G101R
	220	0.50	8.8	D	82	PCE4130CT-ND	.26	.21	.20	.18	PCE4130TR-ND	1,000	95.00	EEE-HB0G221P
6.3	22	0.30	3.0	B	26	PCE4133CT-ND	.19	.15	.14	.13	PCE4133TR-ND	2,000	67.00/M	EEE-HB0J220R
	33	0.30	3.0	B	29	PCE4134CT-ND	.19	.15	.14	.13	PCE4134TR-ND	2,000	67.00/M	EEE-HB0J330R
	47	0.30	3.0	C	46	PCE4135CT-ND	.22	.18	.17	.16	PCE4135TR-ND	1,000	80.00	EEE-HB0J470R
	100	0.30	6.3	D	71	PCE4132CT-ND	.26	.21	.20	.18	PCE4132TR-ND	1,000	95.00	EEE-HB0J101P
10	33	0.22	3.3	C	43	PCE4136CT-ND	.22	.18	.17	.16	PCE4136TR-ND	1,000	80.00	EEE-HB1A330R
16	10	0.16	3.0	B	28	PCE4137CT-ND	.19	.15	.14	.13	PCE4137TR-ND	2,000	67.00/M	EEE-HB1C100R
	22	0.16	3.5	C	39	PCE4138CT-ND	.22	.18	.17	.16	PCE4138TR-ND	1,000	80.00	EEE-HB1C220R
	47	0.16	7.5	D	70	PCE4139CT-ND	.26	.21	.20	.18	PCE4139TR-ND	1,000	95.00	EEE-HB1C470P
25	4.7	0.14	3.0	B	22	PCE4141CT-ND	.19	.15	.14	.13	PCE4141TR-ND	2,000	67.00/M	EEE-HB1E4R7R
	6.8	0.14	3.0	B	25	PCE4142CT-ND	.19	.15	.14	.13	PCE4142TR-ND	2,000	67.00/M	EEE-HB1E6R8R
	33	0.14	8.3	D	65	PCE4140CT-ND	.26	.21	.20	.18	PCE4140TR-ND	1,000	95.00	EEE-HB1E330P
35	10	0.12	3.5	C	28	PCE4153CT-ND	.22	.18	.17	.16	PCE4153TR-ND	1,000	80.00	EEE-HB1V100R
	22	0.12	7.7	D	55	PCE4154CT-ND	.26	.21	.20	.18	PCE4154TR-ND	1,000	95.00	EEE-HB1V220P
50	0.1	0.12	3.0	B	1	PCE4149CT-ND	.19	.15	.14	.13	PCE4149TR-ND	2,000	67.00/M	EEE-HB1HR10R
	0.22	0.12	3.0	B	2	PCE4150CT-ND	.19	.15	.14	.13	PCE4150TR-ND	2,000	67.00/M	EEE-HB1HR22R
	0.33	0.12	3.0	B	3	PCE4151CT-ND	.19	.15	.14	.13	PCE4151TR-ND	2,000	67.00/M	EEE-HB1HR33R
	0.47	0.12	3.0	B	5	PCE4152CT-ND	.19	.15	.14	.13	PCE4152TR-ND	2,000	67.00/M	EEE-HB1HR47R
	1	0.12	3.0	B	10	PCE4144CT-ND	.19	.15	.14	.13	PCE4144TR-ND	2,000	67.00/M	EEE-HB1H1R0R
	2.2	0.12	3.0	B	16	PCE4145CT-ND	.19	.15	.14	.13	PCE4145TR-ND	2,000	67.00/M	EEE-HB1H2R2R
	3.3	0.12	3.0	B	16	PCE4146CT-ND	.19	.15	.14	.13	PCE4146TR-ND	2,000	67.00/M	EEE-HB1H3R3R
	4.7	0.12	3.0	C	23	PCE4147CT-ND	.22	.18	.17	.16	PCE4147TR-ND	1,000	80.00	EEE-HB1H4R7R
	6.8	0.12	3.4	C	23	PCE4148CT-ND	.26	.21	.20	.18	PCE4148TR-ND	1,000	95.00	EEE-HB1H6R8R
	10	0.12	5.0	D	35	PCE4143CT-ND	.26	.21	.20	.18	PCE4143TR-ND	1,000	95.00	EEE-HB1H100P

Panasonic® HB Series Aluminum Electrolytic Capacitors, Surface Mount Type

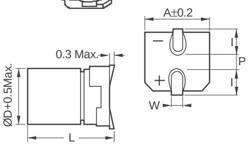

Features: • General Purpose • Life Time: 2000H @105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • Operating Temperature Range: -40°C ~ 105°C **• Capacitance Tolerance:** ±20% (120Hz, 20°C) **• Leakage Current:** I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C **• Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage						
	4.0V	6.3V	10V	16V	25V	35V	50V
-25°C/20°C	7	4	3	2	2	2	2
-40°C/20°C	15	8	6	4	4	3	3

Size Code	Dimensions					
	D	L	A	I	W	P
B	4.0	5.8	4.3	1.8	0.65±0.1	1.0
C	5.0	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ spec. values (120Hz, 20°C)	Max. Leak. Current (μA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
HB Long Life High Reliability Series: –40°C ~ 105°C (2000 Hour Life)														
4	47	0.50	3.0	B	34	PCE3023CT-ND	.19	.15	.14	.13	PCE3023TR-ND	2,000	64.00/M	EEV-HB0G470R
	100	0.50	4.0	C	61	PCE3024CT-ND	.22	.18	.17	.16	PCE3024TR-ND	1,000	76.00	EEV-HB0G101R
	220	0.50	8.8	D	82	PCE3025CT-ND	.26	.21	.20	.18	PCE3025TR-ND	1,000	90.00	EEV-HB0G221P
6.3	22	0.30	3.0	B	26	PCE3026CT-ND	.19	.15	.14	.13	PCE3026TR-ND	2,000	64.00/M	EEV-HB0J220R
	33	0.30	3.0	B	29	PCE3027CT-ND	.19	.15	.14	.13	PCE3027TR-ND	2,000	64.00/M	EEV-HB0J330R
	47	0.30	3.0	C	46	PCE3028CT-ND	.22	.18	.17	.16	PCE3028TR-ND	1,000	76.00	EEV-HB0J470R
	100	0.30	6.3	D	71	PCE3029CT-ND	.26	.21	.20	.18	PCE3029TR-ND	1,000	90.00	EEV-HB0J101P
10	33	0.22	3.3	C	43	PCE3030CT-ND	.22	.18	.17	.16	PCE3030TR-ND	1,000	76.00	EEV-HB1A330R
16	10	0.16	3.0	B	28	PCE3031CT-ND	.19	.15	.14	.13	PCE3031TR-ND	2,000	64.00/M	EEV-HB1C100R
	22	0.16	3.5	C	39	PCE3032CT-ND	.22	.18	.17	.16	PCE3032TR-ND	1,000	76.00	EEV-HB1C220R
	47	0.16	7.5	D	70	PCE3033CT-ND	.26	.21	.20	.18	PCE3033TR-ND	1,000	90.00	EEV-HB1C470P
25	4.7	0.14	3.0	B	22	PCE3034CT-ND	.19	.15	.14	.13	PCE3034TR-ND	2,000	64.00/M	EEV-HB1E4R7R
	6.8	0.14	3.0	B	25	PCE3035CT-ND	.19	.15	.14	.13	PCE3035TR-ND	2,000	64.00/M	EEV-HB1E6R8R
	10	0.14	3.0	C	28	PCE3036CT-ND	.74	.61	.56	.52	PCE3036TR-ND	1,000	258.00	EEV-HB1E100R
	22	0.14	5.5	D	55	PCE3037CT-ND	.85	.70	.65	.60	PCE3037TR-ND	1,000	300.00	EEV-HB1E220P
	33	0.14	8.3	D	65	PCE3038CT-ND	.26	.21	.20	.18	PCE3038TR-ND	1,000	90.00	EEV-HB1E330P
35	10	0.12	3.5	C	28	PCE3039CT-ND	.22	.18	.17	.16	PCE3039TR-ND	1,000	76.00	EEV-HB1V100R
	22	0.12	7.7	D	55	PCE3040CT-ND	.26	.21	.20	.18	PCE3040TR-ND	1,000	90.00	EEV-HB1V220P
50	0.1	0.12	3.0	B	1	PCE3041CT-ND	.19	.15	.14	.13	PCE3041TR-ND	2,000	64.00/M	EEV-HB1HR10R
	0.22	0.12	3.0	B	2	PCE3042CT-ND	.19	.15	.14	.13	PCE3042TR-ND	2,000	64.00/M	EEV-HB1HR22R
	0.33	0.12	3.0	B	3	PCE3043CT-ND	.19	.15	.14	.13	PCE3043TR-ND	2,000	64.00/M	EEV-HB1HR33R
	0.47	0.12	3.0	B	5	PCE3044CT-ND	.19	.15	.14	.13	PCE3044TR-ND	2,000	64.00/M	EEV-HB1HR47R
	1	0.12	3.0	B	10	PCE3045CT-ND	.19	.15	.14	.13	PCE3045TR-ND	2,000	64.00/M	EEV-HB1H1R0R
	2.2	0.12	3.0	B	16	PCE3046CT-ND	.19	.15	.14	.13	PCE3046TR-ND	2,000	64.00/M	EEV-HB1H2R2R
	3.3	0.12	3.0	B	16	PCE3047CT-ND	.19	.15	.14	.13	PCE3047TR-ND	2,000	64.00/M	EEV-HB1H3R3R
	4.7	0.12	3.0	C	23	PCE3048CT-ND	.22	.18	.17	.16	PCE3048TR-ND	1,000	76.00	EEV-HB1H4R7R
	6.8	0.12	3.4	C	23	PCE3049CT-ND	.26	.21	.20	.18	PCE3049TR-ND	1,000	90.00	EEV-HB1H6R8R
	10.0	0.12	5.0	D	35	PCE3050CT-ND	.26	.21	.20	.18	PCE3050TR-ND	1,000	90.00	EEV-HB1H100P

Panasonic®

HC Series

Aluminum Electrolytic Capacitors, Surface Mount Type

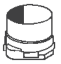

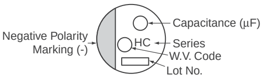

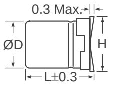

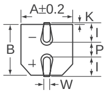

Specifications: • Category Temperature Range: -40°C ~ 105°C **• Capacitance Tolerance:** ±20% (120Hz, 20°C) **• Rated Voltage:** 6.3, 10, 16, 25, 35 **• Surge Voltage:** 8, 13, 20, 32, 44 **• Life Time:** 3000 ~ 5000H ø8, ø10

Following specified values:

Impedance 120Hz	Working Voltage				
	6.3V	10V	16V	25V	35V
-25°C/20°C	3	3	2	2	2
-40°C/20°C	8	5	4	3	3

Rated Voltage Mark	
J	6.3V
A	10V
C	16V
E	25V
V	35V

Size Code	Dimensions							
	D	L	A,B	H	I	W	P	K
B	4.0	5.8	4.3	5.5 Max.	1.8	0.65±0.1	1.0	0.35
C	5.0	5.8	5.3	6.5 Max.	2.2	0.65±0.1	1.5	0.35
D	6.3	5.8	6.6	7.8 Max.	2.6	0.65±0.1	1.8	0.35
D8	6.3	7.7	6.6	7.8 Max.	2.6	0.65±0.1	1.8	0.35
F	8.0	10.2	8.3	10.0 Max.	3.4	0.90±0.2	3.1	0.70±0.2
G	10.0	10.2	10.3	12.0 Max.	3.5	0.90±0.2	4.6	0.70±0.2

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ spec. values (120Hz, 20°C)	Max. Leak. Current (μA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
HC Series : –40°C ~ 105°C (3000 — 5000 Hour Life)														
6.3	22	0.30	3.0	B	26	PCE3739CT-ND	1.07	1.76	4.10	15.12	PCE3739TR-ND	2,000	76.00/M	EEE-HC0J220R
	47	0.30	3.0	C	46	PCE3740CT-ND	1.28	2.10	4.88	18.03	PCE3740TR-ND	1,000	90.00	EEE-HC0J470R
	100	0.30	6.3	D	71	PCE3741CT-ND	1.51	2.48	5.76	21.27	PCE3741TR-ND	1,000	106.00	EEE-HC0J101P
	220	0.30	13.8	D8	101	PCE3742CT-ND	2.05	3.38	7.85	28.98	PCE3742TR-ND	900	130.50	EEE-HC0J221XP
	330	0.30	20.7	F	230	PCE3743CT-ND	3.19	5.26	12.20	45.06	PCE3743TR-ND	500	112.50	EEE-HC0J331P
	1000	0.50	63.0	G	313	PCE3744CT-ND	3.74	6.16	14.30	52.80	PCE3744TR-ND	500	132.00	EEE-HC0J102P
10	33	0.26	3.3	C	43	PCE3745CT-ND	1.07	1.76	4.10	15.12	PCE3745TR-ND	1,000	76.00	EEE-HC1A330R
	220	0.26	22.0	F	160	PCE3746CT-ND	3.19	5.26	12.20	45.06	PCE3746TR-ND	500	112.50	EEE-HC1A221P
16	10	0.20	3.0	B	28	PCE3747CT-ND	1.07	1.76	4.10	15.12	PCE3747TR-ND	2,000	76.00/M	EEE-HC1C100R
	22	0.20	3.5	C	39	PCE3748CT-ND	1.28	2.10	4.88	18.03	PCE3748TR-ND	1,000	90.00	EEE-HC1C220R
	47	0.20	7.5	D	70	PCE3749CT-ND	1.51	2.48	5.76	21.27	PCE3749TR-ND	1,000	106.00	EEE-HC1C470P
	100	0.20	16.0	D8	81	PCE3750CT-ND	2.05	3.38	7.85	28.98	PCE3750TR-ND	900	130.50	EEE-HC1C101XP
	470	0.20	75.2	G	340	PCE3751CT-ND	3.74	6.16	14.30	52.80	PCE3751TR-ND	500	132.00	EEE-HC1C471P
25	33	0.16	8.2	D	65	PCE3752CT-ND	1.28	2.10	4.88	18.03	PCE3752TR-ND	1,000	90.00	EEE-HC1E330P
	47	0.16	11.7	D8	65	PCE3753CT-ND	2.05	3.38	7.85	28.98	PCE3753TR-ND	900	130.50	EEE-HC1E470XP
	100	0.16	25.0	F	130	PCE3754CT-ND	3.19	5.26	12.20	45.06	PCE3754TR-ND	500	112.50	EEE-HC1E101P
	330	0.16	82.5	G	238	PCE3755CT-ND	3.74	6.16	14.30	52.80	PCE3755TR-ND	500	132.00	EEE-HC1E331P
35	4.7	0.14	3.0	B	15	PCE3756CT-ND	1.07	1.76	4.10	15.12	PCE3756TR-ND	2,000	76.00/M	EEE-HC1V4R7R
	10	0.14	3.5	C	28	PCE3757CT-ND	1.28	2.10	4.88	18.03	PCE3757TR-ND	1,000	90.00	EEE-HC1V100R
	22	0.14	7.7	D	55	PCE3758CT-ND	1.51	2.48	5.76	21.27	PCE3758TR-ND	1,000	106.00	EEE-HC1V220P
	33	0.14	11.5	D8	57	PCE3759CT-ND	2.05	3.38	7.85	28.98	PCE3759TR-ND	900	130.50	EEE-HC1V330XP
	220	0.14	77.0	G	220	PCE3760CT-ND	3.74	6.16	14.30	52.80	PCE3760TR-ND	500	132.00	EEE-HC1V221P

Panasonic® HD Series Aluminum Electrolytic Capacitors, Surface Mount Type

Features: • Long Life • Life Time: 5000H @105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement • Anti-solvent: Freon-TE, TES, TP-35

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

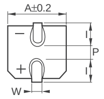

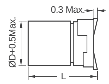

Following specified values:

Impedance 120Hz	Working Voltage 10V	16V	25V	35V	50V	-63V	100V
-25°C/20°C	6	2	2	2	2	2	2
-40°C/20°C	12	5	3	3	3	3	3

Size Code	Dimensions D	L	A	I	W	P
B	4.0	5.8	4.3	1.8	0.65±0.1	1.0
C	5.0	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ spec. values (120Hz, 20°C)	Impe-dance (Ω)	Max. Leak. Current (μA)	Size Code	Max. Ripple Cur. 120Hz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
HD Series: –40°C ~ 105°C (5000 Hour Life)															
10	100	0.30	2.0	10.0	E	62	PCE3364CT-ND	.53	.43	.40	.37	PCE3364TR-ND	1,000	184.00	EEV-HD1A101P
	220	0.30	1.5	22.0	F	93	PCE3365CT-ND	.68	.56	.52	.48	PCE3365TR-ND	500	119.50	EEV-HD1A221P
	330	0.30	0.8	33.0	G	118	PCE3366CT-ND	.80	.66	.61	.56	PCE3366TR-ND	500	139.50	EEV-HD1A331P
16	10	0.20	12.0	3.0	B	20	PCE3338CT-ND	.23	.19	.18	.17	PCE3338TR-ND	2,000	80.00/M	EEV-HD1C100R
	22	0.20	7.2	3.5	C	33	PCE3339CT-ND	.27	.23	.21	.20	PCE3339TR-ND	1,000	95.00	EEV-HD1C220R
	47	0.20	4.0	7.5	D	55	PCE3340CT-ND	.32	.27	.25	.23	PCE3340TR-ND	1,000	113.00	EEV-HD1C470P
	100	0.23	1.5	16.0	F	89	PCE3367CT-ND	.68	.56	.52	.48	PCE3367TR-ND	500	119.50	EEV-HD1C101P
	220	0.23	0.8	35.2	G	113	PCE3368CT-ND	1.25	1.03	.95	.88	PCE3368TR-ND	500	219.00	EEV-HD1C221P
25	33	0.16	4.0	8.3	D	52	PCE3341CT-ND	.32	.27	.25	.23	PCE3341TR-ND	1,000	113.00	EEV-HD1E330P
	47	0.18	2.0	11.8	E	56	PCE3369CT-ND	.53	.43	.40	.37	PCE3369TR-ND	1,000	184.00	EEV-HD1E470P
	100	0.18	1.5	25.0	F	84	PCE3370CT-ND	.68	.56	.52	.48	PCE3370TR-ND	500	119.50	EEV-HD1E101P
35	4.7	0.13	12.0	3.0	B	17	PCE3342CT-ND	.23	.19	.18	.17	PCE3342TR-ND	2,000	80.00/M	EEV-HD1V4R7R
	10	0.13	7.2	3.5	C	28	PCE3343CT-ND	.27	.23	.21	.20	PCE3343TR-ND	1,000	95.00	EEV-HD1V100R
	22	0.13	4.0	7.7	D	47	PCE3344CT-ND	.32	.27	.25	.23	PCE3344TR-ND	1,000	113.00	EEV-HD1V220P
	33	0.16	2.0	11.6	E	53	PCE3371CT-ND	.53	.43	.40	.37	PCE3371TR-ND	1,000	184.00	EEV-HD1V330P
	47	0.16	1.5	16.5	F	79	PCE3372CT-ND	.68	.56	.52	.48	PCE3372TR-ND	500	119.50	EEV-HD1V470P
	100	0.16	0.8	35.0	G	101	PCE3373CT-ND	.80	.66	.61	.56	PCE3373TR-ND	500	139.50	EEV-HD1V101P
50	0.47	0.12	12.0	3.0	B	5	PCE3345CT-ND	.23	.19	.18	.17	PCE3345TR-ND	2,000	80.00/M	EEV-HD1HR47R
	1.0	0.12	12.0	3.0	B	7	PCE3346CT-ND	.23	.19	.18	.17	PCE3346TR-ND	2,000	80.00/M	EEV-HD1H1R0R
	2.2	0.12	12.0	3.0	B	12	PCE3347CT-ND	.23	.19	.18	.17	PCE3347TR-ND	2,000	80.00/M	EEV-HD1H2R2R
	3.3	0.12	12.0	3.0	B	16	PCE3348CT-ND	.23	.19	.18	.17	PCE3348TR-ND	2,000	80.00/M	EEV-HD1H3R3R
	4.7	0.12	7.2	3.0	C	21	PCE3349CT-ND	.27	.23	.21	.20	PCE3349TR-ND	1,000	95.00	EEV-HD1H4R7R
	10	0.12	4.0	5.0	D	33	PCE3350CT-ND	.32	.27	.25	.23	PCE3350TR-ND	1,000	113.00	EEV-HD1H100P
	22	0.14	2.0	11.0	E	50	PCE3374CT-ND	.53	.43	.40	.37	PCE3374TR-ND	1,000	184.00	EEV-HD1H220P
	33	0.14	1.5	16.5	F	74	PCE3375CT-ND	.68	.56	.52	.48	PCE3375TR-ND	500	119.50	EEV-HD1H330P
	47	0.14	0.8	23.5	G	94	PCE3376CT-ND	.80	.66	.61	.56	PCE3376TR-ND	500	139.50	EEV-HD1H470P
63	10	0.18	2.0	6.3	E	45	PCE3571CT-ND	.49	.46	.40	.31	PCE3571TR-ND	1,000	184.00	EEV-HD1J100P
	22	0.18	1.5	13.8	F	65	PCE3572CT-ND	.64	.60	.52	.48	PCE3572TR-ND	500	119.50	EEV-HD1J220P
	33	0.18	0.8	20.7	G	80	PCE3573CT-ND	.75	.70	.61	.56	PCE3573TR-ND	500	139.50	EEV-HD1J330P
100	3.3	0.18	2.0	3.3	E	30	PCE3576CT-ND	.49	.46	.40	.37	PCE3576TR-ND	1,000	184.00	EEV-HD2A3R3P
	4.7	0.18	1.5	4.7	F	50	PCE3577CT-ND	.64	.60	.52	.48	PCE3577TR-ND	500	119.50	EEV-HD2A4R7P
	10.0	0.18	1.5	10.0	F	55	PCE3574CT-ND	.64	.60	.52	.48	PCE3574TR-ND	500	119.50	EEV-HD2A100P
	22.0	0.18	0.8	22.0	G	70	PCE3575CT-ND	.75	.70	.61	.56	PCE3575TR-ND	500	139.50	EEV-HD2A220P

Panasonic® FC Series

Aluminum Electrolytic Capacitors, Surface Mount Type

RoHS COMPLIANT

Features: • Low Impedance (1/2 for HA Series) • Life Time: 1000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Soldering: • **Relflow:** 4 - 6.3mm case 250°C for 5 seconds; 8 - 10mm case 235°C for 5 seconds

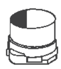

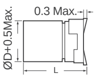

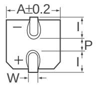

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
-25°C/20°C	2	2	2	2	2	2
-40°C/20°C	3	3	3	3	3	3

Size Code	Dimensions D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ spec. values (120Hz, 20°C)	Impe-dance (Ω)	Max. Leak. Current (μA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
FC Low Impedance High Reliability Series: –40°C ~ 105°C (1000 Hour Life)															
6.3	22	0.26	3.00	3.0	B	60	PCE3984CT-ND	.22	.18	.17	.15	PCE3984TR-ND	2,000	78.00/M	EEE-FC0J220R
	47	0.26	1.80	3.0	C	95	PCE3987CT-ND	.26	.21	.20	.18	PCE3987TR-ND	1,000	94.00	EEE-FC0J470R
	68	0.26	1.00	4.3	D	140	PCE3988CT-ND	.30	.25	.23	.21	PCE3988TR-ND	1,000	110.00	EEE-FC0J680P
	100	0.26	1.00	6.3	D	140	PCE3981CT-ND	.30	.25	.23	.21	PCE3981TR-ND	1,000	110.00	EEE-FC0J101P
	220	0.26	0.40	13.9	E	230	PCE3985CT-ND	.49	.41	.38	.35	PCE3985TR-ND	1,000	180.00	EEE-FC0J221P
	330	0.26	0.30	20.8	F	450	PCE3986CT-ND	.63	.52	.49	.45	PCE3986TR-ND	500	117.00	EEE-FC0J331P
	1000	0.26	0.15	63.0	G	670	PCE3982CT-ND	.74	.61	.57	.53	PCE3982TR-ND	500	137.00	EEE-FC0J102P
	1500	0.26	0.15	94.5	G	670	PCE3983CT-ND	.81	.67	.62	.58	PCE3983TR-ND	500	150.00	EEE-FC0J152P
10	33	0.19	1.80	3.3	C	95	PCE3993CT-ND	.26	.21	.20	.18	PCE3993TR-ND	1,000	94.00	EEE-FC1A330R
	100	0.19	0.40	10.0	E	230	PCE3989CT-ND	.49	.41	.38	.35	PCE3989TR-ND	1,000	180.00	EEE-FC1A101P
	150	0.19	0.40	15.0	E	230	PCE3991CT-ND	.49	.41	.38	.35	PCE3991TR-ND	1,000	180.00	EEE-FC1A151P
	220	0.19	0.30	22.0	F	450	PCE3992CT-ND	.63	.52	.49	.45	PCE3992TR-ND	500	117.00	EEE-FC1A221P
	470	0.19	0.15	47.0	G	670	PCE3994CT-ND	.74	.61	.57	.53	PCE3994TR-ND	500	137.00	EEE-FC1A471P
	1000	0.19	0.15	100.0	G	670	PCE3990CT-ND	.74	.61	.57	.53	PCE3990TR-ND	500	137.00	EEE-FC1A102P
16	10	0.16	3.00	3.0	B	60	PCE3995CT-ND	.22	.18	.17	.15	PCE3995TR-ND	2,000	78.00/M	EEE-FC1C100R
	22	0.16	1.80	3.5	C	95	PCE3997CT-ND	.26	.21	.20	.18	PCE3997TR-ND	1,000	94.00	EEE-FC1C220R
	47	0.16	1.00	7.5	D	140	PCE4000CT-ND	.30	.25	.23	.21	PCE4000TR-ND	1,000	110.00	EEE-FC1C470P
	68	0.16	0.40	10.9	E	230	PCE4002CT-ND	.49	.41	.38	.35	PCE4002TR-ND	1,000	180.00	EEE-FC1C680P
	100	0.16	0.40	16.0	E	230	PCE3996CT-ND	.49	.41	.38	.35	PCE3996TR-ND	1,000	180.00	EEE-FC1C101P
	220	0.16	0.15	35.2	G	670	PCE3998CT-ND	.74	.61	.57	.53	PCE3998TR-ND	500	137.00	EEE-FC1C221P
	330	0.16	0.15	52.8	G	670	PCE3999CT-ND	.74	.61	.57	.53	PCE3999TR-ND	500	137.00	EEE-FC1C331P
	470	0.16	0.15	75.2	G	670	PCE4001CT-ND	.74	.61	.57	.53	PCE4001TR-ND	500	137.00	EEE-FC1C471P
25	6.8	0.14	3.00	3.0	B	60	PCE4011CT-ND	.22	.18	.17	.15	PCE4011TR-ND	2,000	78.00/M	EEE-FC1E6R8R
	22	0.14	1.00	5.5	D	140	PCE4004CT-ND	.30	.25	.23	.21	PCE4004TR-ND	1,000	110.00	EEE-FC1E220P
	33	0.14	1.00	8.2	D	140	PCE4006CT-ND	.30	.25	.23	.21	PCE4006TR-ND	1,000	110.00	EEE-FC1E330P
	47	0.14	0.40	11.8	E	230	PCE4008CT-ND	.49	.41	.38	.35	PCE4008TR-ND	1,000	180.00	EEE-FC1E470P
	68	0.14	0.30	17.0	F	450	PCE4010CT-ND	.63	.52	.49	.45	PCE4010TR-ND	500	117.00	EEE-FC1E680P

(Continued)

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, 20°C)	Impe-dance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
25	100	0.14	0.30	25.0	F	450	PCE4003CT-ND	.63	.52	.49	.45	PCE4003TR-ND	500	117.00	EEE-FC1E101P
	220	0.14	0.15	55.0	G	670	PCE4005CT-ND	.74	.61	.57	.53	PCE4005TR-ND	500	137.00	EEE-FC1E221P
	330	0.14	0.15	82.5	G	670	PCE4007CT-ND	.74	.61	.57	.53	PCE4007TR-ND	500	137.00	EEE-FC1E331P
	470	0.14	0.15	117.5	G	670	PCE4009CT-ND	.81	.67	.62	.58	PCE4009TR-ND	500	150.00	EEE-FC1E471P
35	1.0	0.12	3.00	3.0	B	60	PCE4024CT-ND	.22	.18	.17	.15	PCE4024TR-ND	2,000	78.00/M	EEE-FC1V1R0R
	2.2	0.12	3.00	3.0	B	60	PCE4027CT-ND	.22	.18	.17	.15	PCE4027TR-ND	2,000	78.00/M	EEE-FC1V2R2R
	3.3	0.12	3.00	3.0	B	60	PCE4030CT-ND	.22	.18	.17	.15	PCE4030TR-ND	2,000	78.00/M	EEE-FC1V3R3R
	4.7	0.12	3.00	3.0	B	60	PCE4032CT-ND	.22	.18	.17	.15	PCE4032TR-ND	2,000	78.00/M	EEE-FC1V4R7R
	6.8	0.12	1.80	3.0	C	95	PCE4033CT-ND	.26	.21	.20	.18	PCE4033TR-ND	1,000	94.00	EEE-FC1V6R8R
	10	0.12	1.80	3.5	C	95	PCE4022CT-ND	.26	.21	.20	.18	PCE4022TR-ND	1,000	94.00	EEE-FC1V100R
	22	0.12	1.00	7.7	D	140	PCE4025CT-ND	.30	.25	.23	.21	PCE4025TR-ND	1,000	110.00	EEE-FC1V220P
	33	0.12	0.40	11.6	E	230	PCE4028CT-ND	.49	.41	.38	.35	PCE4028TR-ND	1,000	180.00	EEE-FC1V330P
	47	0.12	0.40	16.5	E	230	PCE4031CT-ND	.49	.41	.38	.35	PCE4031TR-ND	1,000	180.00	EEE-FC1V470P
	100	0.12	0.15	35.0	G	670	PCE4023CT-ND	.74	.61	.57	.53	PCE4023TR-ND	500	137.00	EEE-FC1V101P
	220	0.12	0.15	77.0	G	670	PCE4026CT-ND	.74	.61	.57	.53	PCE4026TR-ND	500	137.00	EEE-FC1V221P
	330	0.12	0.15	115.5	G	670	PCE4029CT-ND	.81	.67	.62	.58	PCE4029TR-ND	500	150.00	EEE-FC1V331P
50	1	0.12	5.00	3.0	B	30	PCE4014CT-ND	.22	.18	.17	.15	PCE4014TR-ND	2,000	78.00/M	EEE-FC1H1R0R
	2.2	0.12	5.00	3.0	B	30	PCE4017CT-ND	.22	.18	.17	.15	PCE4017TR-ND	2,000	78.00/M	EEE-FC1H2R2R
	3.3	0.12	5.00	3.0	B	30	PCE4019CT-ND	.22	.18	.17	.15	PCE4019TR-ND	2,000	78.00/M	EEE-FC1H3R3R
	4.7	0.12	3.00	3.0	C	50	PCE4021CT-ND	.26	.21	.20	.18	PCE4021TR-ND	1,000	94.00	EEE-FC1H4R7R
	10	0.12	2.00	5.0	D	70	PCE4012CT-ND	.30	.25	.23	.21	PCE4012TR-ND	1,000	110.00	EEE-FC1H100P
	22	0.12	0.70	11.0	E	120	PCE4015CT-ND	.49	.41	.38	.35	PCE4015TR-ND	1,000	180.00	EEE-FC1H220P
	33	0.12	0.60	16.5	F	300	PCE4018CT-ND	.63	.52	.49	.45	PCE4018TR-ND	500	117.00	EEE-FC1H330P
	47	0.12	0.30	23.5	G	500	PCE4020CT-ND	.74	.61	.57	.53	PCE4020TR-ND	500	137.00	EEE-FC1H470P
	100	0.12	0.30	50.0	G	500	PCE4013CT-ND	.74	.61	.57	.53	PCE4013TR-ND	500	137.00	EEE-FC1H101P
	220	0.12	0.30	110.0	G	500	PCE4016CT-ND	.81	.67	.62	.58	PCE4016TR-ND	500	150.00	EEE-FC1H221P

Panasonic FC Series

Aluminum Electrolytic Capacitors, Surface Mount Type

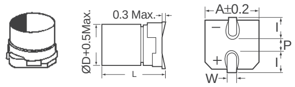

Size Code	Dimensions D	L	A	I	W	P
B	4.0	5.4	4.3	1.8	0.65±0.1	1.0
C	5.0	5.4	5.3	2.2	0.65±0.1	1.5
D	6.3	5.4	6.6	2.6	0.65±0.1	1.8
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Features: • Low Impedance (1/2 of HA Series) • Life Time: 1000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage 6.3V	10V	16V	25V	35V	50V
-25°C/20°C	2	2	2	2	2	2
-40°C/20°C	3	3	3	3	3	3

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ spec. values (120Hz, 20°C)	Impe-dance (Ω)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
FC Low Impedance High Reliability Series: –40°C ~ 105°C (1000 Hour Life)															
6.3	22	0.26	3.00	3.0	B	60	PCE3090CT-ND	.22	.18	.17	.15	PCE3090TR-ND	2,000	75.00/M	EEV-FC0J220R
	47	0.26	1.80	3.0	C	95	PCE3091CT-ND	.26	.21	.20	.18	PCE3091TR-ND	1,000	89.00	EEV-FC0J470R
	68	0.26	1.00	4.3	D	140	PCE3092CT-ND	.30	.25	.23	.21	PCE3092TR-ND	1,000	105.00	EEV-FC0J680P
	100	0.26	1.00	6.3	D	140	PCE3093CT-ND	.30	.25	.23	.21	PCE3093TR-ND	1,000	105.00	EEV-FC0J101P
	220	0.26	0.40	13.9	E	230	PCE3094CT-ND	.49	.41	.38	.35	PCE3094TR-ND	1,000	172.00	EEV-FC0J221P
	330	0.26	0.30	20.8	F	450	PCE3095CT-ND	.63	.52	.49	.45	PCE3095TR-ND	500	111.50	EEV-FC0J331P
	1000	0.26	0.15	63.0	G	670	PCE3243CT-ND	.74	.61	.57	.53	PCE3243TR-ND	500	130.50	EEV-FC0J102P
	1500	0.26	0.15	94.5	G	670	PCE3244CT-ND	.81	.67	.62	.58	PCE3244TR-ND	500	143.00	EEV-FC0J152P
10	33	0.19	1.80	3.3	C	95	PCE3096CT-ND	.26	.21	.20	.18	PCE3096TR-ND	1,000	89.00	EEV-FC1A330R
	100	0.19	0.40	10.0	E	230	PCE3097CT-ND	.49	.41	.38	.35	PCE3097TR-ND	1,000	172.00	EEV-FC1A101P
	150	0.19	0.40	15.0	E	230	PCE3098CT-ND	.49	.41	.38	.35	PCE3098TR-ND	1,000	172.00	EEV-FC1A151P
	220	0.19	0.30	22.0	F	450	PCE3099CT-ND	.63	.52	.49	.45	PCE3099TR-ND	500	111.50	EEV-FC1A221P
	470	0.19	0.15	47.0	G	670	PCE3100CT-ND	.74	.61	.57	.53	PCE3100TR-ND	500	130.50	EEV-FC1A471P
	1000	0.19	0.15	100.0	G	670	PCE3245CT-ND	.74	.61	.57	.53	PCE3245TR-ND	500	130.50	EEV-FC1A102P
16	10	0.16	3.00	3.0	B	60	PCE3101CT-ND	.22	.18	.17	.15	PCE3101TR-ND	2,000	75.00/M	EEV-FC1C100R
	22	0.16	1.80	3.5	C	95	PCE3102CT-ND	.26	.21	.20	.18	PCE3102TR-ND	1,000	89.00	EEV-FC1C220R
	47	0.16	1.00	7.5	D	140	PCE3103CT-ND	.30	.25	.23	.21	PCE3103TR-ND	1,000	105.00	EEV-FC1C470P
	68	0.16	0.40	10.9	E	230	PCE3104CT-ND	.49	.41	.38	.35	PCE3104TR-ND	1,000	172.00	EEV-FC1C680P
	100	0.16	0.40	16.0	E	230	PCE3105CT-ND	.49	.41	.38	.35	PCE3105TR-ND	1,000	172.00	EEV-FC1C101P
	220	0.16	0.15	35.2	G	670	PCE3106CT-ND	.74	.61	.57	.53	PCE3106TR-ND	500	130.50	EEV-FC1C221P
	330	0.16	0.15	52.8	G	670	PCE3107CT-ND	.74	.61	.57	.53	PCE3107TR-ND	500	130.50	EEV-FC1C331P
	470	0.16	0.15	75.2	G	670	PCE3246CT-ND	.74	.61	.57	.53	PCE3246TR-ND	500	130.50	EEV-FC1C471P
25	6.8	0.14	3.00	3.0	B	60	PCE3108CT-ND	.22	.18	.17	.15	PCE3108TR-ND	2,000	75.00/M	EEV-FC1E6R8R
	22	0.14	1.00	5.5	D	140	PCE3109CT-ND	.30	.25	.23	.21	PCE3109TR-ND	1,000	105.00	EEV-FC1E220P
	33	0.14	1.00	8.2	D	140	PCE3110CT-ND	.30	.25	.23	.21	PCE3110TR-ND	1,000	105.00	EEV-FC1E330P
	47	0.14	0.40	11.8	E	230	PCE3111CT-ND	.49	.41	.38	.35	PCE3111TR-ND	1,000	172.00	EEV-FC1E470P
	68	0.14	0.30	17.0	F	450	PCE3112CT-ND	.63	.52	.49	.45	PCE3112TR-ND	500	111.50	EEV-FC1E680P
	100	0.14	0.30	25.0	F	450	PCE3247CT-ND	.63	.52	.49	.45	PCE3247TR-ND	500	111.50	EEV-FC1E101P
	330	0.14	0.15	82.5	G	670	PCE3248CT-ND	.74	.61	.57	.53	PCE3248TR-ND	500	130.50	EEV-FC1E331P
	470	0.14	0.15	117.5	G	670	PCE3249CT-ND	.81	.67	.62	.58	PCE3249TR-ND	500	143.00	EEV-FC1E471P
35	1.0	0.12	3.00	3.0	B	60	PCE3113CT-ND	.22	.18	.17	.15	PCE3113TR-ND	2,000	75.00/M	EEV-FC1V1R0R
	2.2	0.12	3.00	3.0	B	60	PCE3114CT-ND	.22	.18	.17	.15	PCE3114TR-ND	2,000	75.00/M	EEV-FC1V2R2R
	3.3	0.12	3.00	3.0	B	60	PCE3115CT-ND	.22	.18	.17	.15	PCE3115TR-ND	2,000	75.00/M	EEV-FC1V3R3R
	4.7	0.12	3.00	3.0	B	60	PCE3116CT-ND	.22	.18	.17	.15	PCE3116TR-ND	2,000	75.00/M	EEV-FC1V4R7R
	6.8	0.12	1.80	3.0	C	95	PCE3117CT-ND	.26	.21	.20	.18	PCE3117TR-ND	1,000	89.00	EEV-FC1V6R8R
	10	0.12	1.80	3.5	C	95	PCE3118CT-ND	.26	.21	.20	.18	PCE3118TR-ND	1,000	89.00	EEV-FC1V100R
	22	0.12	1.00	7.7	D	140	PCE3119CT-ND	.30	.25	.23	.21	PCE3119TR-ND	1,000	105.00	EEV-FC1V220P
	33	0.12	0.40	11.6	E	230	PCE3120CT-ND	.49	.41	.38	.35	PCE3120TR-ND	1,000	172.00	EEV-FC1V330P
	47	0.12	0.40	16.5	E	230	PCE3121CT-ND	.49	.41	.38	.35	PCE3121TR-ND	1,000	172.00	EEV-FC1V470P
	100	0.12	0.15	35.0	G	670	PCE3122CT-ND	.74	.61	.57	.53	PCE3122TR-ND	500	130.50	EEV-FC1V101P
	220	0.12	0.15	77.0	G	670	PCE3250CT-ND	.74	.61	.57	.53	PCE3250TR-ND	500	130.50	EEV-FC1V221P
	330	0.12	0.15	115.5	G	670	PCE3251CT-ND	.81	.67	.62	.58	PCE3251TR-ND	500	143.00	EEV-FC1V331P
50	1	0.12	5.00	3.0	B	30	PCE3252CT-ND	.22	.18	.17	.15	PCE3252TR-ND	2,000	75.00/M	EEV-FC1H1R0R
	2.2	0.12	5.00	3.0	B	30	PCE3253CT-ND	.22	.18	.17	.15	PCE3253TR-ND	2,000	75.00/M	EEV-FC1H2R2R
	3.3	0.12	5.00	3.0	B	30	PCE3254CT-ND	.22	.18	.17	.15	PCE3254TR-ND	2,000	75.00/M	EEV-FC1H3R3R
	4.7	0.12	3.00	3.0	C	50	PCE3255CT-ND	.26	.21	.20	.18	PCE3255TR-ND	1,000	89.00	EEV-FC1H4R7R
	10	0.12	2.00	5.0	D	70	PCE3256CT-ND	.30	.25	.23	.21	PCE3256TR-ND	1,000	105.00	EEV-FC1H100P
	22	0.12	0.70	11.0	E	120	PCE3257CT-ND	.49	.41	.38	.35	PCE3257TR-ND	1,000	172.00	EEV-FC1H220P
	33	0.12	0.60	16.5	F	300	PCE3258CT-ND	.63	.52	.49	.45	PCE3258TR-ND	500	111.50	EEV-FC1H330P
	47	0.12	0.30	23.5	G	500	PCE3259CT-ND	.74	.61	.57	.53	PCE3259TR-ND	500	130.50	EEV-FC1H470P
	100	0.12	0.30	50.0	G	500	PCE3260CT-ND	.74	.61	.57	.53	PCE3260TR-ND	500	130.50	EEV-FC1H101P
	220	0.12	0.30	110.0	G	500	PCE3261CT-ND	.81	.67	.62	.58	PCE3261TR-ND	500	143.00	EEV-FC1H221P

Panasonic® FK Series Aluminum Electrolytic Capacitors, Surface Mount Type

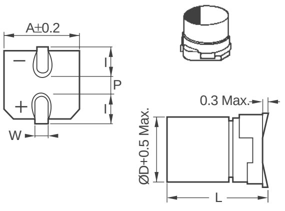

Features: • Low Impedance (40-60% lower than FC) • Small Size (30-50% smaller than FC) • Long Life: 2000-5000H @ 105°C • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range**: -55°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current**: I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Soldering: • **Reflow**: 3 - 6mm case 250°C for 5 seconds; 8 - 10mm case 235°C for 5 seconds; 12.5 - 18mm case for 230°C for 5 seconds

Following specified values:

Impedance 120Hz	Working Voltage								
	6.3V	10V	16V	25V	35V	50V	63V	80V	100V
-25°C/+20°C	2	2	2	2	2	2	2	2	2
-40°C/+20°C	3	3	3	3	3	3	3	3	3
-55°C/+20°C	4	4	4	3	3	3	3	3	3

Size Code	Dimensions					
	D	L	A	l	W	P
B	4	5.8	4.3	1.8	0.65±0.1	1.0
C	5	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8	6.2	8.3	3.4	0.65±0.1	2.2
F	8	10.2	8.3	3.4	0.90±0.2	3.1
G	10	10.2	10.3	3.5	0.90±0.2	4.6
H13	12.5	13.5	13.5	4.7	0.90±0.3	4.4
J16	16	16.5	17.0	5.5	1.2±0.3	6.7
K16	18	16.5	19.0	6.7	1.2±0.3	6.7

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Impe-dance (Ω)	Max. Leakage Current (μA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each 5	10	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
FK Series: Low Impedance (40-60% lower than FC), High Reliability, –55°C ~ 105°C (2000 Hour Life, GP Suffix 5000 Hour)															
6.3	22	0.26	1.35	3.0	B	90	PCE3765CT-ND	.25	.20	.19	.18	PCE3765TR-ND	2,000	90.00/M	EEE-FK0J220R
	47	0.26	1.35	3.0	B	90	PCE3770CT-ND	.25	.20	.19	.18	PCE3770TR-ND	2,000	90.00/M	EEE-FK0J470UR
	47	0.26	0.70	3.0	C	160	PCE3769CT-ND	.29	.24	.23	.21	PCE3769TR-ND	1,000	107.00	EEE-FK0J470R
	100	0.26	0.70	6.3	C	160	PCE3762CT-ND	.29	.24	.23	.21	PCE3762TR-ND	1,000	107.00	EEE-FK0J101UR
	100	0.26	0.36	6.3	D	240	PCE3761CT-ND	.34	.28	.26	.24	PCE3761TR-ND	1,000	126.00	EEE-FK0J101P
	220	0.26	0.36	13.9	D	240	PCE3766CT-ND	.34	.28	.26	.24	PCE3766TR-ND	1,000	126.00	EEE-FK0J221P
	330	0.26	0.34	20.8	D8	280	PCE3768CT-ND	.47	.39	.36	.33	PCE3768TR-ND	900	154.80	EEE-FK0J331XP
	330	0.26	0.26	20.8	E	300	PCE3767CT-ND	.56	.46	.43	.40	PCE3767TR-ND	1,000	206.00	EEE-FK0J331P
	470	0.26	0.16	29.6	F	600	PCE3771CT-ND	.72	.60	.56	.51	PCE3771TR-ND	500	133.50	EEE-FK0J471P
	470	0.26	0.16	29.6	F	600	PCE4308CT-ND ***NEW!***	.81	.67	.62	.57	PCE4308TR-ND ***NEW!***	500	139.50	EEE-FK0J471GP
	1000	0.26	0.16	63.0	F	600	PCE3763CT-ND	.72	.60	.56	.51	PCE3763TR-ND	500	133.50	EEE-FK0J102P
	1000	0.26	0.16	63.0	F	600	PCE4309CT-ND ***NEW!***	.81	.67	.62	.57	PCE4309TR-ND ***NEW!***	500	139.50	EEE-FK0J102GP
	1500	0.26	0.08	94.5	G	850	PCE3764CT-ND	.85	.70	.65	.60	PCE3764TR-ND	500	156.50	EEE-FK0J152P
	1500	0.26	0.08	94.5	G	850	PCE4310CT-ND ***NEW!***	.95	.78	.73	.67	PCE4310TR-ND ***NEW!***	500	163.50	EEE-FK0J152GP
	3300	0.30	0.060	207.9	H13	1100	PCE3454CT-ND	1.42	1.17	1.09	1.00	PCE3454TR-ND	200	100.00	EEV-FK0J332Q
	6800	0.36	0.035	428.4	J16	1800	PCE3455CT-ND	2.32	1.91	1.78	—	PCE3455TR-ND	125	102.25	EEV-FK0J682M
10	22	0.19	1.35	3.0	B	90	PCE3774CT-ND	.25	.20	.19	.18	PCE3774TR-ND	2,000	90.00/M	EEE-FK1A220R
	33	0.19	1.35	3.3	B	90	PCE3778CT-ND	.25	.20	.19	.18	PCE3778TR-ND	2,000	90.00/M	EEE-FK1A330UR
	33	0.19	0.70	3.3	C	160	PCE3777CT-ND	.29	.24	.23	.21	PCE3777TR-ND	1,000	107.00	EEE-FK1A330R
	150	0.19	0.36	15.0	D	240	PCE3773CT-ND	.34	.28	.26	.24	PCE3773TR-ND	1,000	126.00	EEE-FK1A151P
	220	0.19	0.34	22.0	D8	280	PCE3776CT-ND	.47	.39	.36	.33	PCE3776TR-ND	900	154.80	EEE-FK1A221XP
	220	0.19	0.26	22.0	E	300	PCE3775CT-ND	.56	.46	.43	.40	PCE3775TR-ND	1,000	206.00	EEE-FK1A221P
	330	0.19	0.16	33.0	F	600	PCE3779CT-ND	.72	.60	.56	.51	PCE3779TR-ND	500	133.50	EEE-FK1A331P
	330	0.19	0.16	33.0	F	600	PCE4311CT-ND ***NEW!***	.81	.67	.62	.57	PCE4311TR-ND ***NEW!***	500	139.50	EEE-FK1A331GP
	470	0.19	0.16	47.0	F	600	PCE3780CT-ND	.72	.60	.56	.51	PCE3780TR-ND	500	133.50	EEE-FK1A471P
	470	0.19	0.16	47.0	F	600	PCE4312CT-ND ***NEW!***	.81	.67	.62	.57	PCE4312TR-ND ***NEW!***	500	139.50	EEE-FK1A471GP
	680	0.19	0.16	68.0	F	600	PCE3781CT-ND	.72	.60	.56	.51	PCE3781TR-ND	500	133.50	EEE-FK1A681P
	1000	0.19	0.08	100.0	G	850	PCE3772CT-ND	.85	.70	.65	.60	PCE3772TR-ND	500	156.50	EEE-FK1A102P
	1000	0.19	0.08	100.0	G	850	PCE4313CT-ND ***NEW!***	.95	.78	.73	.67	PCE4313TR-ND ***NEW!***	500	163.50	EEE-FK1A102GP
	2200	0.21	0.060	220.0	H13	1100	PCE3456CT-ND	1.42	1.17	1.09	1.00	PCE3456TR-ND	200	96.60	EEV-FK1A222Q
	4700	0.25	0.035	470.0	J16	1800	PCE3457CT-ND	2.32	1.91	1.78	—	PCE3457TR-ND	125	102.25	EEV-FK1A472M
	6800	0.29	0.033	680.0	K16	2060	PCE3458CT-ND	2.74	2.26	2.10	—	PCE3458TR-ND	125	120.63	EEV-FK1A682M
16	10	0.16	1.35	3.0	B	90	PCE3782CT-ND	.25	.20	.19	.18	PCE3782TR-ND	2,000	90.00/M	EEE-FK1C100R
	22	0.16	1.35	3.5	B	90	PCE3786CT-ND	.25	.20	.19	.18	PCE3786TR-ND	2,000	90.00/M	EEE-FK1C220UR
	22	0.16	0.70	3.5	C	160	PCE3785CT-ND	.29	.24	.23	.21	PCE3785TR-ND	1,000	107.00	EEE-FK1C220R
	47	0.16	0.70	7.5	C	160	PCE3791CT-ND	.29	.24	.23	.21	PCE3791TR-ND	1,000	107.00	EEE-FK1C470UR
	47	0.16	0.36	7.5	D	240	PCE3790CT-ND	.34	.28	.26	.24	PCE3790TR-ND	1,000	126.00	EEE-FK1C470P
	68	0.16	0.36	10.9	D	240	PCE3793CT-ND	.34	.28	.26	.24	PCE3793TR-ND	1,000	126.00	EEE-FK1C680P
	100	0.16	0.36	16.0	D	240	PCE3783CT-ND	.34	.28	.26	.24	PCE3783TR-ND	1,000	126.00	EEE-FK1C101P
	150	0.16	0.34	24.0	D8	280	PCE3784CT-ND	.47	.39	.36	.33	PCE3784TR-ND	900	154.80	EEE-FK1C151XP
	220	0.16	0.34	35.2	D8	280	PCE3788CT-ND	.47	.39	.36	.33	PCE3778TR-ND	2,000	90.00/M	EEE-FK1C221XP
	220	0.16	0.26	35.2	E	300	PCE3787CT-ND	.56	.46	.43	.40	PCE3787TR-ND	1,000	206.00	EEE-FK1C221P
	330	0.16	0.16	52.8	F	600	PCE3789CT-ND	.72	.60	.56	.51	PCE3789TR-ND	500	133.50	EEE-FK1C331P
	330	0.16	0.16	52.8	F	600	PCE4314CT-ND ***NEW!***	.81	.67	.62	.57	PCE4314TR-ND ***NEW!***	500	139.50	EEE-FK1C331GP
	470	0.16	0.16	75.2	F	600	PCE3792CT-ND	.72	.60	.56	.51	PCE3792TR-ND	500	133.50	EEE-FK1C471P
	470	0.16	0.16	75.2	F	600	PCE4315CT-ND ***NEW!***	.81	.67	.62	.57	PCE4315TR-ND ***NEW!***	500	139.50	EEE-FK1C471GP
	680	0.16	0.08	108.8	G	850	PCE3794CT-ND	.85	.70	.65	.60	PCE3794TR-ND	500	156.50	EEE-FK1C681P
	680	0.16	0.08	108.8	G	850	PCE4316CT-ND ***NEW!***	.95	.78	.73	.67	PCE4316TR-ND ***NEW!***	500	163.50	EEE-FK1C681GP
	1500	0.16	0.060	240.0	H13	1100	PCE3459CT-ND	1.42	1.17	1.09	1.00	PCE3459TR-ND	200	96.60	EEV-FK1C152Q
	3300	0.20	0.035	528.0	J16	1800	PCE3460CT-ND	2.32	1.91	1.78	—	PCE3460TR-ND	125	102.25	EEV-FK1C332M
	4700	0.22	0.033	752.0	K16	2060	PCE3461CT-ND	2.74	2.26	2.10	—	PCE3461TR-ND	125	120.63	EEV-FK1C472M
25	10	0.14	1.35	3.0	B	90	PCE3795CT-ND	.25	.20	.19	.18	PCE3795TR-ND	2,000	90.00/M	EEE-FK1E100R
	22	0.14	0.70	5.5	C	160	PCE3799CT-ND	.29	.24	.23	.21	PCE3799TR-ND	1,000	107.00	EEE-FK1E220R
	33	0.14	0.70	8.3	C	160	PCE3802CT-ND	.29	.24	.23	.21	PCE3802TR-ND	1,000	107.00	EEE-FK1E330UR
	33	0.14	0.36	8.3	D	240	PCE3801CT-ND	.34	.28	.26	.24	PCE3801TR-ND	1,000	126.00	EEE-FK1E330P
	47	0.14	0.36	11.8	D	240	PCE3804CT-ND	.34	.28	.26	.24	PCE3804TR-ND	1,000	126.00	EEE-FK1E470P
	68	0.14	0.36	17.0	D	240	PCE3806CT-ND	.34	.28	.26	.24	PCE3806TR-ND	1,000	126.00	EEE-FK1E680P
	100	0.14	0.34	25.0	D8	280	PCE3797CT-ND	.47	.39	.36	.33	PCE3797TR-ND	900	154.80	EEE-FK1E101XP
	100	0.14	0.26	25.0	E	300	PCE3796CT-ND	.56	.46	.43	.40	PCE3796TR-ND	1,000	206.00	EEE-FK1E101P
	150	0.14	0.16	37.5	F	600	PCE3798CT-ND	.72	.60	.56	.51	PCE3798TR-ND	500	133.50	EEE-FK1E151P
	220	0.14	0.16	55.0	F	600	PCE3800CT-ND	.72	.60	.56	.51	PCE3800TR-ND	500	133.50	EEE-FK1E221P
	220	0.14	0.16	55.0	F	600	PCE4317CT-ND ***NEW!***	.81	.67	.62	.57	PCE4317TR-ND ***NEW!***	500	139.50	EEE-FK1E221GP
	330	0.14	0.16	82.5	F	600	PCE3803CT-ND	.72	.60	.56	.51	PCE3803TR-ND	500	133.50	EEE-FK1E331P
	330	0.14	0.16	82.5	F	600	PCE4318CT-ND ***NEW!***	.81	.67	.62	.57	PCE4318TR-ND ***NEW!***	500	139.50	EEE-FK1E331GP
	470	0.14	0.08	117.5	G	850	PCE3805CT-ND	.85	.70	.65	.60	PCE3805TR-ND	500	156.50	EEE-FK1E471P
	470	0.14	0.08	117.5	G	850	PCE4319CT-ND ***NEW!***	.95	.78	.73	.67	PCE4319TR-ND ***NEW!***	500	163.50	EEE-FK1E471GP
	1000	0.14	0.060	250.0	H13	1100	PCE3462CT-ND	1.42	1.17	1.09	1.00	PCE3462TR-ND	200	96.60	EEV-FK1E102Q
	2200	0.16	0.035	550.0	J16	1800	PCE3463CT-ND	2.32	1.91	1.78	—	PCE3463TR-ND	125	102.25	EEV-FK1E222M
	3300	0.18	0.033	825.0	K16	2060	PCE3506CT-ND	2.74	2.26	2.10	—	PCE3506TR-ND	125	120.63	EEV-FK1E332M
35	4.7	0.12	1.35	3.0	B	90	PCE3843CT-ND	.25	.20	.19	.18	PCE3843TR-ND	2,000	90.00/M	EEE-FK1V4R7R
	10	0.12	1.35	3.5	B	90	PCE3834CT-ND	.25	.20	.19	.18	PCE3834TR-ND	2,000	90.00/M	EEE-FK1V100UR
	10	0.12	0.70	3.5	C	160	PCE3833CT-ND	.29	.24	.23	.21	PCE3833TR-ND	1,000	107.00	EEE-FK1V100R
	22	0.12	0.70	7.7	C	160	PCE3838CT-ND	.29	.24	.23	.21	PCE3838TR-ND	1,000	107.00	EEE-FK1V220R
	33	0.12	0.36	11.6	D	240	PCE3840CT-ND	.34	.28	.26	.24	PCE3840TR-ND	1,000	126.00	EEE-FK1V330P
	47	0.12	0.36	16.5	D	240	PCE3842CT-ND	.34	.28	.26	.24	PCE3842TR-ND	1,000	126.00	EEE-FK1V470P
	68	0.12	0.34	23.8	D8	280	PCE3844CT-ND	.47	.39	.36	.33	PCE3844TR-ND	900	154.80	EEE-FK1V680XP
	100	0.12	0.34	35.0	D8	280	PCE3836CT-ND	.47	.39	.36	.33	PCE3836TR-ND	900	154.80	EEE-FK1V101XP
	100	0.12	0.16	35.0	F	600	PCE3835CT-ND	.72	.60	.56	.51	PCE3835TR-ND	500	133.50	EEE-FK1V101P
	100	0.12	0.16	35.0	F	600	PCE4320CT-ND ***NEW!***	.81	.67	.62	.57	PCE4320TR-ND ***NEW!***	500	139.50	EEE-FK1V101GP
	150	0.12	0.16	52.5	F	600	PCE3837CT-ND	.72	.60	.56	.51	PCE3837TR-ND	500	133.50	EEE-FK1V151P
	220	0.12	0.16	77.0	F	600	PCE3839CT-ND	.72	.60	.56	.51	PCE3839TR-ND	500	133.50	EEE-FK1V221P
	220	0.12	0.16	77.0	F	600	PCE4321CT-ND ***NEW!***	.81	.67	.62	.57	PCE4321TR-ND ***NEW!***	500	139.50	EEE-FK1V221GP
	330	0.12	0.08	115.5	G	850	PCE3841CT-ND	.85	.70	.65	.60	PCE3841TR-ND	500	156.50	EEE-FK1V331P
	330	0.12	0.08	115.5	G	850	PCE4322CT-ND ***NEW!***	.95	.78	.73	.67	PCE4322TR-ND ***NEW!***	500	163.50	EEE-FK1V331GP
	470	0.12	0.060	164.5	H13	1100	PCE3464CT-ND	1.42	1.17	1.09	1.00	PCE3464TR-ND	200	100.00	EEV-FK1V471Q
	680	0.12	0.060	238.0	H13	1100	PCE3465CT-ND	1.42	1.17	1.09	1.00	PCE3465TR-ND	200	96.60	EEV-FK1V681Q
	1500	0.12	0.035	525.0	J16	1800	PCE3466CT-ND	2.32	1.91	1.78	—	PCE3466TR-ND	125	102.25	EEV-FK1V152M
50	4.7	0.10	2.9	3.0	B	60	PCE3817CT-ND	.25	.20	.19	.18	PCE3817TR-ND	2,000	90.00/M	EEE-FK1H4R7R
	10	0.10	1.52	5.0	C	85	PCE3808CT-ND	.29	.24	.23	.21	PCE3808TR-ND	1,000	107.00	EEE-FK1H100UR

(Continued)

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Impe-dance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
								5	10	25	100		Size	Pricing	
50	10	0.10	0.88	5.0	D	165	PCE3807CT-ND	.34	.28	.26	.24	PCE3807TR-ND	1,000	126.00	EEE-FK1H100P
	22	0.10	0.88	11.0	D	165	PCE3811CT-ND	.34	.28	.26	.24	PCE3811TR-ND	1,000	126.00	EEE-FK1H220P
	33	0.10	0.68	16.5	D8	195	PCE3814CT-ND	.47	.39	.36	.33	PCE3814TR-ND	900	154.80	EEE-FK1H330XP
	33	0.10	0.68	16.5	E	195	PCE3813CT-ND	.56	.46	.43	.40	PCE3813TR-ND	1,000	206.00	EEE-FK1H330P
	47	0.10	0.68	23.5	D8	195	PCE3816CT-ND	.47	.39	.36	.33	PCE3816TR-ND	900	154.80	EEE-FK1H470XP
	47	0.10	0.68	23.5	E	195	PCE3815CT-ND	.56	.46	.43	.40	PCE3815TR-ND	1,000	206.00	EEE-FK1H470P
	100	0.10	0.34	50.0	F	350	PCE3809CT-ND	.72	.60	.56	.51	PCE3809TR-ND	500	133.50	EEE-FK1H101P
	100	0.10	0.34	50.0	F	350	PCE4323CT-ND ***NEW!***	.81	.67	.62	.57	PCE4323TR-ND ***NEW!***	500	139.50	EEE-FK1H101GP
	150	0.10	0.18	75.0	G	670	PCE3810CT-ND	.85	.70	.65	.60	PCE3810TR-ND	500	156.50	EEE-FK1H151P
	220	0.10	0.18	110.0	G	670	PCE3812CT-ND	.85	.70	.65	.60	PCE3812TR-ND	500	156.50	EEE-FK1H221P
	220	0.10	0.18	110.0	G	670	PCE4324CT-ND ***NEW!***	.95	.78	.73	.67	PCE4324TR-ND ***NEW!***	500	163.50	EEE-FK1H221GP
	330	0.10	0.12	165.0	H13	900	PCE3475CT-ND	1.42	1.17	1.09	1.00	PCE3475TR-ND	200	96.60	EEV-FK1H331Q
	680	0.10	0.073	340.0	J16	1610	PCE3523CT-ND	2.32	1.91	1.78	—	PCE3523TR-ND	125	102.25	EEV-FK1H681M
	1000	0.10	0.073	500.0	J16	1610	PCE3477CT-ND	2.32	1.91	1.78	—	PCE3477TR-ND	125	102.25	EEV-FK1H102M
63	4.7	0.08	3.0	3.0	C	50	PCE3824CT-ND	.31	.25	.24	.22	PCE3824TR-ND	1,000	113.00	EEE-FK1J4R7R
	10	0.08	1.5	6.3	D	80	PCE3818CT-ND	.36	.30	.28	.26	PCE3818TR-ND	1,000	132.00	EEE-FK1J100P
	22	0.08	1.2	13.9	D8	120	PCE3821CT-ND	.49	.41	.38	.35	PCE3821TR-ND	900	162.00	EEE-FK1J220XP
	22	0.08	1.2	13.9	E	120	PCE3820CT-ND	.59	.49	.45	.42	PCE3820TR-ND	1,000	216.00	EEE-FK1J220P
	33	0.08	0.65	20.8	F	250	PCE3822CT-ND	.76	.63	.58	.54	PCE3822TR-ND	500	140.50	EEE-FK1J330P
	47	0.08	0.65	29.6	F	250	PCE3823CT-ND	.76	.63	.58	.54	PCE3823TR-ND	500	140.50	EEE-FK1J470P
	68	0.08	0.65	42.8	F	250	PCE4307CT-ND ***NEW!***	.72	.60	.56	.51	PCE4307TR-ND ***NEW!***	500	127.00	EEE-FK1J680UP
	68	0.08	0.65	42.8	G	250	PCE3825CT-ND	.89	.73	.68	.63	PCE3825TR-ND	500	164.50	EEE-FK1J680P
	100	0.08	0.35	63.0	G	400	PCE3819CT-ND	.89	.73	.68	.63	PCE3819TR-ND	500	164.50	EEE-FK1J101P
	150	0.08	0.16	94.5	H13	800	PCE3526CT-ND	1.49	1.23	1.14	1.05	PCE3526TR-ND	200	105.00	EEV-FK1J151Q
	220	0.08	0.16	138.6	H13	800	PCE3484CT-ND	1.49	1.23	1.14	1.05	PCE3484TR-ND	200	105.00	EEV-FK1J221Q
	470	0.08	0.082	296.1	J16	1410	PCE3485CT-ND	2.44	2.01	1.87	—	PCE3485TR-ND	125	107.38	EEV-FK1J471M
	680	0.08	0.080	428.4	K16	1690	PCE3486CT-ND	2.87	2.37	2.20	—	PCE3486TR-ND	125	126.63	EEV-FK1J681M
80	3.3	0.08	5.0	3.0	C	25	PCE3830CT-ND	.31	.25	.24	.22	PCE3830TR-ND	1,000	113.00	EEE-FK1K3R3R
	4.7	0.08	3.0	3.8	D	40	PCE3832CT-ND	.36	.30	.28	.26	PCE3832TR-ND	1,000	132.00	EEE-FK1K4R7P
	10	0.08	2.4	8.0	D8	60	PCE3827CT-ND	.49	.41	.38	.35	PCE3827TR-ND	900	162.00	EEE-FK1K100XP
	10	0.08	2.4	8.0	E	60	PCE3826CT-ND	.59	.49	.45	.42	PCE3826TR-ND	1,000	216.00	EEE-FK1K100P
	22	0.08	1.3	17.6	F	130	PCE3828CT-ND	.76	.63	.58	.54	PCE3828TR-ND	500	140.50	EEE-FK1K220P
	33	0.08	1.3	26.4	F	130	PCE3829CT-ND	.76	.63	.58	.54	PCE3829TR-ND	500	140.50	EEE-FK1K330P
	47	0.08	0.7	37.6	G	200	PCE3831CT-ND	.89	.73	.68	.63	PCE3831TR-ND	500	164.50	EEE-FK1K470P
	68	0.08	0.32	54.4	H13	500	PCE3528CT-ND	1.49	1.23	1.14	1.05	PCE3528TR-ND	200	105.00	EEV-FK1K680Q
	100	0.08	0.32	80.0	H13	500	PCE3493CT-ND	1.49	1.23	1.14	1.05	PCE3493TR-ND	200	105.00	EEV-FK1K101Q
	150	0.08	0.32	120.0	H13	500	PCE3494CT-ND	1.49	1.23	1.14	1.05	PCE3494TR-ND	200	101.40	EEV-FK1K151Q
	330	0.08	0.17	264.0	J16	793	PCE3495CT-ND	2.44	2.01	1.87	—	PCE3495TR-ND	125	107.38	EEV-FK1K331M
	470	0.08	0.153	376.0	K16	917	PCE3496CT-ND	2.87	2.37	2.20	—	PCE3496TR-ND	125	126.63	EEV-FK1K471M
100	22	0.07	1.3	22.0	F	130	PCE3845CT-ND	.75	.62	.58	.53	PCE3845TR-ND	500	140.50	EEE-FK2A220P
	33	0.07	0.7	33.0	G	200	PCE3846CT-ND	.87	.72	.67	.62	PCE3846TR-ND	500	164.50	EEE-FK2A330P
	47	0.07	0.32	47.0	H13	500	PCE3497CT-ND	1.49	1.23	1.14	1.05	PCE3497TR-ND	200	105.00	EEV-FK2A470Q
	68	0.07	0.32	68.0	H13	500	PCE3498CT-ND	1.49	1.23	1.14	1.05	PCE3498TR-ND	200	101.40	EEV-FK2A680Q
	100	0.07	0.17	100.0	J16	793	PCE3504CT-ND	2.44	2.01	1.87	—	PCE3504TR-ND	125	107.38	EEV-FK2A101M
	150	0.07	0.17	150.0	J16	793	PCE3499CT-ND	2.44	2.01	1.87	—	PCE3499TR-ND	125	107.38	EEV-FK2A151M
	220	0.07	0.153	220.0	K16	917	PCE3500CT-ND	2.87	2.37	2.20	—	PCE3500TR-ND	125	126.63	EEV-FK2A221M
	330	0.07	0.153	330.0	K16	917	PCE3505CT-ND	2.87	2.37	2.20	—	PCE3505TR-ND	125	126.63	EEV-FK2A331M

Panasonic FK Series Aluminum Electrolytic Capacitors, Surface Mount Type

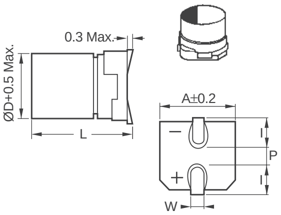

Features: • Low Impedance (40-60% lower than FC) • Small Size (30-50% smaller than FC) • Long Life: 2000-5000H @ 105°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Following specified values:

Impedance 120Hz	Working Voltage								
	6.3V	10V	16V	25V	35V	50V	63V	80V	100V
-25°C/+20°C	2	2	2	2	2	2	2	2	2
-40°C/+20°C	3	3	3	3	3	3	3	3	3
-55°C/+20°C	4	4	4	3	3	3	3	3	3

Size Code	Dimensions					
	D	L	A	I	W	P
B	4	5.8	4.3	1.8	0.65±0.1	1.0
C	5	5.8	5.3	2.2	0.65±0.1	1.5
D	6.3	5.8	6.6	2.6	0.65±0.1	1.8
D8	6.3	7.7	6.6	2.6	0.65±0.1	1.8
E	8	6.2	8.3	3.4	0.65±0.1	2.2
F	8	10.2	8.3	3.4	0.90±0.2	3.1
G	10	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Impe-dance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
								5	10	25	100		Size	Pricing	
FK Series: Low Impedance (40-60% lower than FC), High Reliability, –55°C ~ 105°C (2000 Hour Life, GP Suffix 5000 Hour)															
6.3	22	0.26	1.35	3.0	B	90	PCE3377CT-ND	.25	.20	.19	.18	PCE3377TR-ND	2,000	85.00/M	EEV-FK0J220R
	47	0.26	1.35	3.0	B	90	PCE3378CT-ND	.25	.20	.19	.18	PCE3378TR-ND	2,000	85.00/M	EEV-FK0J470UR
	47	0.26	0.70	3.0	C	160	PCE3379CT-ND	.29	.24	.23	.21	PCE3379TR-ND	1,000	102.00	EEV-FK0J470R
	100	0.26	0.70	6.3	C	160	PCE3380CT-ND	.29	.24	.23	.21	PCE3380TR-ND	1,000	102.00	EEV-FK0J101UR
	100	0.26	0.36	6.3	D	240	PCE3381CT-ND	.34	.28	.26	.24	PCE3381TR-ND	1,000	120.00	EEV-FK0J101P
	220	0.26	0.36	13.9	D	240	PCE3382CT-ND	.34	.28	.26	.24	PCE3382TR-ND	1,000	120.00	EEV-FK0J221P
	330	0.26	0.26	20.8	E	300	PCE3383CT-ND	.56	.46	.43	.40	PCE3383TR-ND	1,000	196.00	EEV-FK0J331P
	330	0.26	0.34	20.8	D8	280	PCE3507CT-ND	.47	.39	.36	.33	PCE3507TR-ND	900	147.60	EEV-FK0J331XP
	470	0.26	0.16	29.6	F	600	PCE3384CT-ND	.72	.60	.56	.51	PCE3384TR-ND	500	127.00	EEV-FK0J471P
	470	0.26	0.16	29.6	F	600	PCE3708CT-ND	.79	.66	.61	.56	PCE3708TR-ND	500	139.50	EEV-FK0J471GP
	1000	0.26	0.16	63.0	F	600	PCE3385CT-ND	.72	.60	.56	.51	PCE3385TR-ND	500	127.00	EEV-FK0J102P
	1000	0.26	0.16	63.0	F	600	PCE3706CT-ND	.79	.66	.61	.56	PCE3706TR-ND	500	139.50	EEV-FK0J102GP
	1500	0.26	0.08	94.5	G	850	PCE3386CT-ND	.85	.70	.65	.60	PCE3386TR-ND	500	149.00	EEV-FK0J152P
	1500	0.26	0.08	94.5	G	850	PCE3707CT-ND	.93	.77	.71	.66	PCE3707TR-ND	500	163.50	EEV-FK0J152GP
10	22	0.19	1.35	3.0	B	90	PCE3387CT-ND	.25	.20	.19	.18	PCE3387TR-ND	2,000	85.00/M	EEV-FK1A220R
	33	0.19	1.35	3.3	B	90	PCE3388CT-ND	.25	.20	.19	.18	PCE3388TR-ND	2,000	85.00/M	EEV-FK1A330UR
	33	0.19	0.70	3.3	C	160	PCE3389CT-ND	.29	.24	.23	.21	PCE3389TR-ND	1,000	102.00	EEV-FK1A330R
	150	0.19	0.36	15.0	D	240	PCE3508CT-ND	.34	.28	.26	.24	PCE3508TR-ND	1,000	120.00	EEV-FK1A151P
	220	0.19	0.34	22.0	D8	280	PCE3509CT-ND	.47	.39	.36	.33	PCE3509TR-ND	900	147.60	EEV-FK1A221XP
	220	0.19	0.26	22.0	E	300	PCE3390CT-ND	.56	.46	.43	.40	PCE3390TR-ND	1,000	196.00	EEV-FK1A221P
	330	0.19	0.16	33.0	F	600	PCE3391CT-ND	.72	.60	.56	.51	PCE3391TR-ND	500	127.00	EEV-FK1A331P
	330	0.19	0.16	33.0	F	600	PCE3710CT-ND	.79	.66	.61	.56	PCE3710TR-ND	500	139.50	EEV-FK1A331GP
	470	0.19	0.16	47.0	F	600	PCE3392CT-ND	.72	.60	.56	.51	PCE3392TR-ND	500	127.00	EEV-FK1A471P
	470	0.19	0.16	47.0	F	600	PCE3711CT-ND	.79	.66	.61	.56	PCE3711TR-ND	500	139.50	EEV-FK1A471GP
	680	0.49	0.016	68.0	G	600	PCE3510CT-ND	.72	.60	.56	.51	PCE3510TR-ND	500	127.00	EEV-FK1A681P
	1000	0.19	0.08	100.0	G	850	PCE3393CT-ND	.85	.70	.65	.60	PCE3393TR-ND	500	149.00	EEV-FK1A102P
	1000	0.19	0.08	100.0	G	850	PCE3709CT-ND	.93	.77	.71	.66	PCE3709TR-ND	500	163.50	EEV-FK1A102GP
16	10	0.16	1.35	3.0	B	90	PCE3394CT-ND	.25	.20	.19	.18	PCE3394TR-ND	2,000	85.00/M	EEV-FK1C100R
	22	0.16	1.35	3.5	B	90	PCE3395CT-ND	.25	.20	.19	.18	PCE3395TR-ND	2,000	85.00/M	EEV-FK1C220UR
	22	0.16	0.70	3.5	C	160	PCE3396CT-ND	.29	.24	.23	.21	PCE3396TR-ND	1,000	102.00	EEV-FK1C220R
	47	0.16	0.70	7.5	C	160	PCE3397CT-ND	.29	.24	.23	.21	PCE3397TR-ND	1,000	102.00	EEV-FK1C470UR
	47	0.16	0.36	7.5	D	240	PCE3398CT-ND	.34	.28	.26	.24	PCE3398TR-ND	1,000	120.00	EEV-FK1C470P
	68	0.16	0.36	10.9	D	240	PCE3511CT-ND	.34	.28	.26	.24	PCE3511TR-ND	1,000	120.00	EEV-FK1C680P

(Continued)

Panasonic® FK Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Impe-dance (Ω)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
								5	10	25	100		Size	Pricing	
16	100	0.16	0.36	16.0	D	240	PCE3399CT-ND	.34	.28	.26	.24	PCE3399TR-ND	1,000	120.00	EEV-FK1C101P
	150	0.16	0.34	24.0	D8	280	PCE3512CT-ND	.47	.39	.36	.33	PCE3512TR-ND	900	147.60	EEV-FK1C151XP
	220	0.16	0.34	35.2	D8	280	PCE3513CT-ND	.47	.39	.36	.33	PCE3513TR-ND	900	147.60	EEV-FK1C221XP
	220	0.16	0.26	35.2	E	300	PCE3400CT-ND	.56	.46	.43	.40	PCE3400TR-ND	1,000	196.00	EEV-FK1C221P
	330	0.16	0.16	52.8	F	600	PCE3401CT-ND	.72	.60	.56	.51	PCE3401TR-ND	500	127.00	EEV-FK1C331P
	330	0.16	0.16	52.8	F	600	PCE3712CT-ND	.79	.66	.61	.56	PCE3712TR-ND	500	139.50	EEV-FK1C331GP
	470	0.16	0.16	75.2	F	600	PCE3402CT-ND	.72	.60	.56	.51	PCE3402TR-ND	500	127.00	EEV-FK1C471P
	470	0.16	0.16	75.2	F	600	PCE3713CT-ND	.79	.66	.61	.56	PCE3713TR-ND	500	139.50	EEV-FK1C471GP
	680	0.16	0.08	108.8	G	850	PCE3501CT-ND	.85	.70	.65	.60	PCE3501TR-ND	500	149.00	EEV-FK1C681P
	680	0.16	0.08	108.8	G	850	PCE3714CT-ND	.93	.77	.71	.66	PCE3714TR-ND	500	163.50	EEV-FK1C681GP
25	10	0.14	1.35	3.0	B	90	PCE3403CT-ND	.25	.20	.19	.18	PCE3403TR-ND	2,000	85.00/M	EEV-FK1E100R
	22	0.14	0.70	5.5	C	160	PCE3404CT-ND	.29	.24	.23	.21	PCE3404TR-ND	1,000	102.00	EEV-FK1E220R
	33	0.14	0.70	8.3	C	160	PCE3405CT-ND	.29	.24	.23	.21	PCE3405TR-ND	1,000	102.00	EEV-FK1E330UR
	33	0.14	0.36	8.3	D	240	PCE3406CT-ND	.34	.28	.26	.24	PCE3406TR-ND	1,000	120.00	EEV-FK1E330P
	47	0.14	0.36	11.8	D	240	PCE3407CT-ND	.34	.28	.26	.24	PCE3407TR-ND	1,000	120.00	EEV-FK1E470P
	68	0.14	0.36	17.0	D	240	PCE3514CT-ND	.34	.28	.26	.24	PCE3514TR-ND	1,000	120.00	EEV-FK1E680P
	100	0.14	0.34	25.0	D8	280	PCE3515CT-ND	.47	.39	.36	.33	PCE3515TR-ND	900	147.60	EEV-FK1E101XP
	100	0.14	0.26	25.0	E	300	PCE3408CT-ND	.56	.46	.43	.40	PCE3408TR-ND	1,000	196.00	EEV-FK1E101P
	150	0.14	0.16	37.5	F	600	PCE3516CT-ND	.72	.60	.56	.51	PCE3516TR-ND	500	127.00	EEV-FK1E151P
	220	0.14	0.16	55.0	F	600	PCE3409CT-ND	.72	.60	.56	.51	PCE3409TR-ND	500	127.00	EEV-FK1E221P
	220	0.14	0.16	55.0	F	600	PCE3715CT-ND	.79	.66	.61	.56	PCE3715TR-ND	500	139.50	EEV-FK1E221GP
	330	0.14	0.16	82.5	F	600	PCE3410CT-ND	.72	.60	.56	.51	PCE3410TR-ND	500	127.00	EEV-FK1E331P
	330	0.14	0.16	82.5	F	600	PCE3716CT-ND	.79	.66	.61	.56	PCE3716TR-ND	500	139.50	EEV-FK1E331GP
	470	0.14	0.08	117.5	G	850	PCE3411CT-ND	.85	.70	.65	.60	PCE3411TR-ND	500	149.00	EEV-FK1E471P
	470	0.14	0.08	117.5	G	850	PCE3717CT-ND	.93	.77	.71	.66	PCE3717TR-ND	500	163.50	EEV-FK1E471GP
35	4.7	0.12	1.35	3.0	B	90	PCE3412CT-ND	.25	.20	.19	.18	PCE3412TR-ND	2,000	85.00/M	EEV-FK1V4R7R
	10	0.12	1.35	3.5	B	90	PCE3413CT-ND	.25	.20	.19	.18	PCE3413TR-ND	2,000	85.00/M	EEV-FK1V100UR
	10	0.12	0.70	3.5	C	160	PCE3414CT-ND	.29	.24	.23	.21	PCE3414TR-ND	1,000	102.00	EEV-FK1V100R
	22	0.12	0.70	7.7	C	160	PCE3415CT-ND	.29	.24	.23	.21	PCE3415TR-ND	1,000	102.00	EEV-FK1V220R
	33	0.12	0.36	11.6	D	240	PCE3416CT-ND	.34	.28	.26	.24	PCE3416TR-ND	1,000	120.00	EEV-FK1V330P
	47	0.12	0.36	16.5	D	240	PCE3417CT-ND	.34	.28	.26	.24	PCE3417TR-ND	1,000	120.00	EEV-FK1V470P
	68	0.12	0.34	23.8	D8	280	PCE3517CT-ND	.47	.39	.36	.33	PCE3517TR-ND	900	147.60	EEV-FK1V680XP
	100	0.12	0.34	35.0	D8	280	PCE3518CT-ND	.47	.39	.36	.33	PCE3518TR-ND	900	147.60	EEV-FK1V101XP
	100	0.12	0.16	35.0	F	600	PCE3418CT-ND	.72	.60	.56	.51	PCE3418TR-ND	500	127.00	EEV-FK1V101P
	100	0.12	0.16	35.0	F	600	PCE3720CT-ND	.79	.66	.61	.56	PCE3720TR-ND	500	139.50	EEV-FK1V101GP
	150	0.12	0.16	52.5	F	600	PCE3519CT-ND	.72	.60	.56	.51	PCE3519TR-ND	500	127.00	EEV-FK1V151P
	220	0.12	0.16	77.0	F	600	PCE3419CT-ND	.72	.60	.56	.51	PCE3419TR-ND	500	127.00	EEV-FK1V221P
	220	0.12	0.16	77.0	F	600	PCE3721CT-ND	.79	.66	.61	.56	PCE3721TR-ND	500	139.50	EEV-FK1V221GP
	330	0.12	0.08	115.5	G	850	PCE3420CT-ND	.85	.70	.65	.60	PCE3420TR-ND	500	149.00	EEV-FK1V331P
	330	0.12	0.08	115.5	G	850	PCE3722CT-ND	.93	.77	.71	.66	PCE3722TR-ND	500	163.50	EEV-FK1V331GP
50	4.7	0.10	2.90	3.0	B	60	PCE3467CT-ND	.25	.20	.19	.18	PCE3467TR-ND	2,000	85.00/M	EEV-FK1H4R7R
	10	0.10	1.52	5.0	C	85	PCE3468CT-ND	.29	.24	.23	.21	PCE3468TR-ND	1,000	102.00	EEV-FK1H100UR
	10	0.10	0.88	5.0	D	165	PCE3469CT-ND	.34	.28	.26	.24	PCE3469TR-ND	1,000	120.00	EEV-FK1H100P
	22	0.10	0.88	11.0	D	165	PCE3470CT-ND	.34	.28	.26	.24	PCE3470TR-ND	1,000	120.00	EEV-FK1H220P
	33	0.10	0.68	16.5	D8	195	PCE3520CT-ND	.47	.39	.36	.33	PCE3520TR-ND	900	147.60	EEV-FK1H330XP
	33	0.10	0.68	16.5	E	195	PCE3471CT-ND	.56	.46	.43	.40	PCE3471TR-ND	1,000	197.00	EEV-FK1H330P
	47	0.10	0.68	23.5	D8	195	PCE3521CT-ND	.47	.39	.36	.33	PCE3521TR-ND	900	147.60	EEV-FK1H470XP
	47	0.10	0.68	23.5	E	195	PCE3472CT-ND	.56	.46	.43	.40	PCE3472TR-ND	1,000	197.00	EEV-FK1H470P
	100	0.10	0.34	50.0	F	350	PCE3473CT-ND	.72	.60	.56	.51	PCE3473TR-ND	500	127.00	EEV-FK1H101P
	100	0.10	0.34	50.0	F	350	PCE3718CT-ND	.79	.66	.61	.56	PCE3718TR-ND	500	139.50	EEV-FK1H101GP
	150	0.10	0.18	75.0	G	670	PCE3522CT-ND	.85	.70	.65	.60	PCE3522TR-ND	500	149.00	EEV-FK1H151P
	220	0.10	0.18	110.0	G	670	PCE3474CT-ND	.85	.70	.65	.60	PCE3474TR-ND	500	149.00	EEV-FK1H221P
	220	0.10	0.18	110.0	G	670	PCE3719CT-ND	.93	.77	.71	.66	PCE3719TR-ND	500	163.50	EEV-FK1H221GP
63	4.7	0.08	3.00	3.0	C	50	PCE3478CT-ND	.31	.25	.24	.22	PCE3478TR-ND	1,000	107.00	EEV-FK1J4R7R
	10	0.08	1.50	6.3	D	80	PCE3479CT-ND	.36	.30	.28	.26	PCE3479TR-ND	1,000	126.00	EEV-FK1J100P
	22	0.08	1.20	13.9	D8	120	PCE3524CT-ND	.49	.41	.38	.35	PCE3524TR-ND	900	154.80	EEV-FK1J220XP
	22	0.08	1.20	13.9	E	120	PCE3480CT-ND	.59	.49	.45	.42	PCE3480TR-ND	1,000	206.00	EEV-FK1J220P
	33	0.08	0.65	20.8	F	250	PCE3481CT-ND	.76	.63	.58	.54	PCE3481TR-ND	500	133.50	EEV-FK1J330P
	47	0.08	0.65	29.6	F	250	PCE3482CT-ND	.76	.63	.58	.54	PCE3482TR-ND	500	133.50	EEV-FK1J470P
	68	0.08	0.35	42.8	G	400	PCE3525CT-ND	.89	.73	.68	.63	PCE3525TR-ND	500	156.50	EEV-FK1J680P
	100	0.08	0.35	63.0	G	400	PCE3483CT-ND	.89	.73	.68	.63	PCE3483TR-ND	500	156.50	EEV-FK1J101P
80	3.3	0.08	5.00	3.0	C	25	PCE3487CT-ND	.31	.25	.24	.22	PCE3487TR-ND	1,000	107.00	EEV-FK1K3R3R
	4.7	0.08	3.00	3.8	D	40	PCE3488CT-ND	.36	.30	.28	.26	PCE3488TR-ND	1,000	126.00	EEV-FK1K4R7P
	10	0.08	2.40	8.0	D8	60	PCE3527CT-ND	.49	.41	.38	.35	PCE3527TR-ND	900	154.80	EEV-FK1K100XP
	10	0.08	2.40	8.0	E	60	PCE3489CT-ND	.59	.49	.45	.42	PCE3489TR-ND	1,000	206.00	EEV-FK1K100P
	22	0.08	1.30	17.6	F	130	PCE3490CT-ND	.76	.63	.58	.54	PCE3490TR-ND	500	133.50	EEV-FK1K220P
	33	0.08	1.30	26.4	F	130	PCE3491CT-ND	.76	.63	.58	.54	PCE3491TR-ND	500	133.50	EEV-FK1K330P
	47	0.08	0.70	37.6	G	200	PCE3492CT-ND	.89	.73	.68	.63	PCE3492TR-ND	500	156.50	EEV-FK1K470P
100	22	0.07	1.30	22.0	F	130	PCE3502CT-ND	.75	.62	.58	.53	PCE3502TR-ND	500	132.00	EEV-FK2A220P
	33	0.07	0.70	33.0	G	200	PCE3503CT-ND	.87	.72	.67	.62	PCE3503TR-ND	500	153.50	EEV-FK2A330

Panasonic® EB Series Aluminum Electrolytic Capacitors, Surface Mount Type

RoHS COMPLIANT

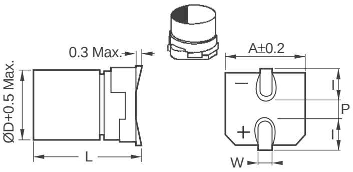

Features: • Long Life: 3000-5000H @ 105°C • High Voltage • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • **Operating Temperature Range:** -25°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz, 20°C) • **Leakage Current:** I ≤ 0.06CV +10(µA) after a 2 minute application of rated working voltage at 20°C • **Low Temperature Characteristics:** Impedance ratio (120Hz)

Soldering: • **Reflow:** 230°C for 5 seconds

Following specified values:

Impedance 120Hz	Working Voltage					
	160V	200V	250V	350V	400V	450V
-25°C/+20°C	2	2	3	5	6	6

Size Code	Dimensions					
	D	L	A	I	W	P
G13	10	13.5	10.3	3.5	0.90±0.2	4.6
G17	10	16.5	10.3	3.5	0.90±0.2	4.6
H16	12.5	16.5	13.5	4.7	0.90±0.3	4.4
J16	16	16.5	17.0	5.5	1.2±0.3	6.7
J21	16	21.5	17.0	5.5	1.2±0.3	6.7
K16	18	16.5	19.0	6.5	1.2±0.3	6.7
K21	18	21.5	19.0	6.5	1.2±0.3	6.7

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
							5	10	25		Size	Pricing	
EB Long Life, High Ripple Series: –25°C ~ 105°C (3000 – 5000 Hour Life)													
160	10	0.15	106.0	G13	70	PCE3421CT-ND	1.13	.93	.87	PCE3421TR-ND	250	99.50	EEV-EB2C100Q
	33	0.15	326.8	H16	470	PCE3422CT-ND	1.86	1.53	1.42	PCE3422TR-ND	150	98.10	EEV-EB2C330SQ
	47	0.15	461.2	J16	600	PCE3579CT-ND	2.32	1.91	1.78	PCE3579TR-ND	125	102.25	EEV-EB2C470SM
	68	0.15	662.8	J21	750	PCE3580CT-ND	2.74	2.26	2.10	PCE3580TR-ND	75	72.38	EEV-EB2C680M
	68	0.15	662.8	K16	750	PCE3581CT-ND	2.74	2.26	2.10	PCE3581TR-ND	125	120.63	EEV-EB2C680SM
	100	0.15	970.0	K21	1060	PCE3578CT-ND	3.26	2.69	2.49	PCE3578TR-ND	75	86.18	EEV-EB2C101M
200	22	0.15	274.0	H16	470	PCE3427CT-ND	1.86	1.53	1.42	PCE3427TR-ND	150	98.10	EEV-EB2D220SQ
	33	0.15	406.0	J16	600	PCE3583CT-ND	2.32	1.91	1.78	PCE3583TR-ND	125	102.25	EEV-EB2D330SM
	47	0.15	574.0	K16	600	PCE3584CT-ND	2.74	2.26	2.10	PCE3584TR-ND	125	120.63	EEV-EB2D470SM
	68	0.15	826.0	J21	750	PCE3585CT-ND	2.74	2.26	2.10	PCE3585TR-ND	75	72.38	EEV-EB2D680M
	100	0.15	1210.0	K21	1060	PCE3582CT-ND	3.26	2.69	2.49	PCE3582TR-ND	75	86.18	EEV-EB2D101M

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Panasonic® EB Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leakage Current (μA)	Size Code	Max. Ripple Cur. 100KHz, 105°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
							5	10	25		Size	Pricing	
250	10	0.15	160.0	G17	88	PCE3432CT-ND	1.30	1.07	.99	PCE3432TR-ND	200	91.40	EEV-EB2E100Q
	22	0.15	340.0	J16	560	PCE3586CT-ND	2.32	1.91	1.78	PCE3586TR-ND	125	102.25	EEV-EB2E220SM
	33	0.15	505.0	K16	560	PCE3587CT-ND	2.74	2.26	2.10	PCE3587TR-ND	125	120.63	EEV-EB2E330SM
	47	0.15	715.0	J21	710	PCE3588CT-ND	2.74	2.26	2.10	PCE3588TR-ND	75	72.38	EEV-EB2E470M
	68	0.15	1030.0	K21	990	PCE3589CT-ND	3.26	2.69	2.49	PCE3589TR-ND	75	86.18	EEV-EB2E680M
350	10	0.20	220.0	J16	270	PCE3593CT-ND	2.32	1.91	1.78	PCE3593TR-ND	125	102.25	EEV-EB2V100SM
	22	0.20	472.0	K16	350	PCE3594CT-ND	2.74	2.26	2.10	PCE3594TR-ND	125	120.63	EEV-EB2V220SM
	33	0.20	703.0	J21	480	PCE3595CT-ND	2.74	2.26	2.10	PCE3595TR-ND	75	72.38	EEV-EB2V330M
	47	0.20	997.0	K21	670	PCE3596CT-ND	3.26	2.69	2.49	PCE3596TR-ND	75	86.18	EEV-EB2V470M
400	3.3	0.24	89.2	G13	40	PCE3441CT-ND	1.13	.93	.87	PCE3441TR-ND	250	99.50	EEV-EB2G3R3Q
	4.7	0.24	122.8	G17	50	PCE3442CT-ND	1.30	1.07	.99	PCE3442TR-ND	200	91.40	EEV-EB2G4R7Q
	10	0.24	250.0	J16	250	PCE3590CT-ND	2.32	1.91	1.78	PCE3590TR-ND	125	102.25	EEV-EB2G100SM
	22	0.24	538.0	J21	410	PCE3591CT-ND	2.74	2.26	2.10	PCE3591TR-ND	75	72.38	EEV-EB2G220M
	33	0.24	802.0	K21	600	PCE3592CT-ND	3.26	2.69	2.49	PCE3592TR-ND	75	86.18	EEV-EB2G330M
450	2.2	0.24	69.4	G13	29	PCE3446CT-ND	1.13	.93	.87	PCE3446TR-ND	250	99.50	EEV-EB2W2R2Q
	3.3	0.24	99.1	G17	41	PCE3447CT-ND	1.30	1.07	.99	PCE3447TR-ND	200	88.20	EEV-EB2W3R3Q
	4.7	0.24	136.9	H16	49	PCE3448CT-ND	1.86	1.53	1.42	PCE3448TR-ND	150	98.10	EEV-EB2W4R7SQ
	10	0.24	280.0	K16	310	PCE3597CT-ND	2.74	2.26	2.10	PCE3597TR-ND	125	120.63	EEV-EB2W100SM
	22	0.24	604.0	K21	560	PCE3598CT-ND	3.26	2.69	2.49	PCE3598TR-ND	75	86.18	EEV-EB2W220M

Panasonic® TA Series Aluminum Electrolytic Capacitors, Surface Mount Type

Features: • High Temperature: 125°C • Automotive Applications • Life Time: 1000H @ 125°C • Surface Mount Type • High CV Volumetric Efficiency • Tape and Reel Packaging for Automatic Placement

Specifications: • Operating Temperature Range: -40°C ~ 125°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

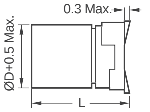

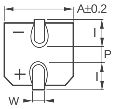

Following specified values:

Impedance 120Hz	Working Voltage				
	10V	16V	25V	35V	50V
-25°C/+20°C	8	8	4	3	3
-40°C/+20°C	14	12	10	8	8

Size Code	Dimensions (mm)					
	D	L	A	I	W	P
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ Spec. Values (120Hz, +20°C)	Max. Leakage Current (μA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
							5	10	25	100		Size	Pricing	
TA Automotive Series: –40°C ~ 125°C (1000 Hour Life)														
10	100	0.32	10.0	E	62	PCE3143CT-ND	.86	.71	.66	.61	PCE3143TR-ND	1,000	303.00	EEV-TA1A101P
	220	0.32	22.0	F	93	PCE3144CT-ND	1.11	.92	.85	.79	PCE3144TR-ND	500	195.00	EEV-TA1A221P
	330	0.32	33.0	G	118	PCE3145CT-ND	1.31	1.08	1.00	.92	PCE3145TR-ND	500	229.50	EEV-TA1A331P
16	100	0.24	16.0	F	89	PCE3146CT-ND	1.11	.92	.85	.79	PCE3146TR-ND	500	195.00	EEV-TA1C101P
	220	0.24	35.2	G	113	PCE3147CT-ND	1.31	1.08	1.00	.92	PCE3147TR-ND	500	229.50	EEV-TA1C221P
25	47	0.21	11.8	E	56	PCE3148CT-ND	.86	.71	.66	.61	PCE3148TR-ND	1,000	303.00	EEV-TA1E470P
	100	0.21	25.0	F	84	PCE3149CT-ND	1.11	.92	.85	.79	PCE3149TR-ND	500	195.00	EEV-TA1E101P
35	33	0.18	11.6	E	53	PCE3150CT-ND	.86	.71	.66	.61	PCE3150TR-ND	1,000	303.00	EEV-TA1V330P
	47	0.18	16.5	F	79	PCE3151CT-ND	1.11	.92	.85	.79	PCE3151TR-ND	500	195.00	EEV-TA1V470P
	100	0.18	3.5	G	101	PCE3152CT-ND	1.31	1.08	1.00	.92	PCE3152TR-ND	500	229.50	EEV-TA1V101P
50	10	0.18	5.0	E	25	PCE3153CT-ND	.86	.71	.66	.61	PCE3153TR-ND	1,000	303.00	EEV-TA1H100P
	22	0.18	11.0	E	50	PCE3154CT-ND	.86	.71	.66	.61	PCE3154TR-ND	1,000	303.00	EEV-TA1H220P
	33	0.18	16.5	F	74	PCE3155CT-ND	1.11	.92	.85	.79	PCE3155TR-ND	500	195.00	EEV-TA1H330P
	47	0.18	23.5	G	94	PCE3156CT-ND	1.31	1.08	1.00	.92	PCE3156TR-ND	500	229.50	EEV-TA1H470P

Panasonic® TG Series Aluminum Electrolytic Capacitors, Surface Mount Type

Features: • Life Time: 1000-2000H @ 125°C • Automotive Applications • Surface Mount Type • Miniaturization (40% less than TA Series) • Low ESR (Low Temperature)

Specifications: • Operating Temperature Range: -40°C ~ 125°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(μA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz) • Soldering Reflow: 8-10mm case, 235°C for 5 seconds; 12.5-18mm case, 230°C for 5 seconds

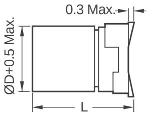

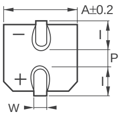

Following specified values:

Impedance 120Hz	Working Voltage							
	10V	16V	25V	35V	50V	63V	80V	100V
-25°C/20°C	3	2	2	2	2	2	2	2
-40°C/20°C	6	4	4	3	3	3	3	3

Size Code	Dimensions (mm)					
	D	L	A	I	W	P
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6
H13	12.5	13.5	13.5	4.7	0.90±0.3	4.4
J16	16.0	16.5	17.0	5.5	1.20±0.3	6.7
K16	18.0	16.5	19.0	6.7	1.20±0.3	6.7

Rated W.V. (VDC)	Nom. Cap. (μF)	tan δ ≤ Spec. Values (120Hz, +20°C)	ESR (100kHz) (+20°C) Ω	Max. Leakage Current (μA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Size	Pricing	
TG Series: –40°C ~ 125°C (1000 – 2000 Hour Life)															
10	100	0.30	1.0	10.0	E	100	PCE4034CT-ND	.74	.61	.57	.52	PCE4034TR-ND	1,000	273.00	EEE-TG1A101P
	220	0.30	1.0	22.0	E	100	PCE4038CT-ND	.76	.63	.59	.54	PCE4038TR-ND	1,000	282.00	EEE-TG1A221UP
	220	0.30	0.5	22.0	E	197	PCE4037CT-ND	.93	.76	.71	.66	PCE4037TR-ND	500	171.00	EEE-TG1A221P
	330	0.30	0.5	33.0	F	197	PCE4041CT-ND	.95	.79	.73	.67	PCE4041TR-ND	500	175.50	EEE-TG1A331UP
	330	0.30	0.3	33.0	G	270	PCE4040CT-ND	1.11	.91	.85	.78	PCE4040TR-ND	500	205.00	EEE-TG1A331P
	470	0.30	0.3	47.0	G	270	PCE4044CT-ND	1.13	.94	.87	.80	PCE4044TR-ND	500	209.50	EEE-TG1A471UP
	1000	0.30	0.12	100.0	H13	800	PCE3608CT-ND	1.85	1.52	1.42	1.31	PCE3608TR-ND	200	125.80	EEV-TG1A102Q
	1500	0.30	0.12	150.0	H13	800	PCE3609CT-ND	1.90	1.56	1.45	1.34	PCE3609TR-ND	200	133.60	EEV-TG1A152UQ
	2200	0.32	0.08	220.0	J16	1100	PCE3612CT-ND	3.02	2.49	2.31	—	PCE3612TR-ND	125	133.00	EEV-TG1A222M
	3300	0.34	0.075	330.0	K16	1300	PCE3615CT-ND	3.58	2.95	2.74	—	PCE3615TR-ND	125	157.75	EEV-TG1A332M
	3300	0.34	0.08	330.0	J16	1100	PCE3616CT-ND	3.07	2.53	2.35	—	PCE3616TR-ND	125	135.25	EEV-TG1A332UM
	4700	0.36	0.075	470.0	K16	1300	PCE3618CT-ND	3.58	2.95	2.74	—	PCE3618TR-ND	125	157.75	EEV-TG1A472M
16	100	0.23	0.5	16.0	F	197	PCE4046CT-ND	.93	.76	.71	.66	PCE4046TR-ND	500	171.00	EEE-TG1C101P
	220	0.23	0.5	35.2	F	197	PCE4050CT-ND	.95	.79	.73	.67	PCE4050TR-ND	500	175.50	EEE-TG1C221UP
	220	0.23	0.3	35.2	G	270	PCE4049CT-ND	1.11	.91	.85	.78	PCE4049TR-ND	500	205.00	EEE-TG1C221P
	330	0.23	0.3	52.8	G	270	PCE4054CT-ND	1.13	.94	.87	.80	PCE4054TR-ND	500	209.50	EEE-TG1C331UP
	330	0.23	0.12	52.8	H13	800	PCE3626CT-ND	1.85	1.52	1.42	1.31	PCE3626TR-ND	200	125.80	EEV-TG1C331Q
	470	0.23	0.12	75.2	H13	800	PCE3629CT-ND	1.85	1.52	1.42	1.31	PCE3629TR-ND	200	130.20	EEV-TG1C471Q
	680	0.23	0.12	108.8	H13	800	PCE3630CT-ND	1.85	1.52	1.42	1.31	PCE3630TR-ND	200	125.80	EEV-TG1C681Q
	1000	0.23	0.08	160.0	J16	1100	PCE3620CT-ND	2.92	2.41	2.23	—	PCE3620TR-ND	125	128.63	EEV-TG1C102M
	1000	0.23	0.12	160.0	H13	800	PCE3621CT-ND	1.90	1.56	1.45	1.34	PCE3621TR-ND	200	133.60	EEV-TG1C102UQ

(Continued)

Panasonic TG Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	ESR (100kHz) (+20°C) Ω	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Size	Pricing	
16	2200	0.25	0.075	352.0	K16	1300	PCE3624CT-ND	3.48	2.87	2.66	—	PCE3624TR-ND	125	153.38	EEV-TG1C222M
	2200	0.25	0.08	352.0	J16	1100	PCE3625CT-ND	2.97	2.45	2.27	—	PCE3625TR-ND	125	130.88	EEV-TG1C222UM
	3300	0.27	0.075	528.0	K16	1300	PCE3628CT-ND	3.48	2.87	2.66	—	PCE3628TR-ND	125	153.38	EEV-TG1C332M
25	47	0.18	1.0	11.75	E	100	PCE4067CT-ND	.74	.61	.57	.52	PCE4067TR-ND	1,000	273.00	EEE-TG1E470P
	100	0.18	1.0	25.0	E	100	PCE4059CT-ND	.76	.63	.59	.54	PCE4059TR-ND	1,000	282.00	EEE-TG1E101UP
	100	0.18	0.5	25.0	F	197	PCE4058CT-ND	.93	.76	.71	.66	PCE4058TR-ND	500	171.00	EEE-TG1E101P
	220	0.18	0.5	55.0	F	197	PCE4063CT-ND	.95	.79	.73	.67	PCE4063TR-ND	500	175.50	EEE-TG1E221UP
	220	0.18	0.3	55.0	G	270	PCE4062CT-ND	1.11	.91	.85	.78	PCE4062TR-ND	500	205.00	EEE-TG1E221P
	330	0.18	0.3	82.5	G	270	PCE4066CT-ND	1.11	.91	.85	.78	PCE4066TR-ND	500	205.00	EEE-TG1E331UP
	330	0.18	0.12	82.5	H13	800	PCE3638CT-ND	1.85	1.52	1.42	1.31	PCE3638TR-ND	200	125.80	EEV-TG1E331Q
	470	0.18	0.12	117.5	H13	800	PCE3641CT-ND	1.85	1.52	1.42	1.31	PCE3641TR-ND	200	125.80	EEV-TG1E471Q
	680	0.18	0.08	170.0	J16	1100	PCE3642CT-ND	2.92	2.41	2.23	—	PCE3642TR-ND	125	128.63	EEV-TG1E681M
	680	0.18	0.12	170.0	H13	800	PCE3643CT-ND	1.90	1.56	1.45	1.34	PCE3643TR-ND	200	129.00	EEV-TG1E681UQ
	1000	0.18	0.075	250.0	K16	1300	PCE3633CT-ND	3.48	2.87	2.66	—	PCE3633TR-ND	125	153.38	EEV-TG1E102M
	1000	0.18	0.08	250.0	J16	1100	PCE3634CT-ND	2.97	2.45	2.27	—	PCE3634TR-ND	125	130.88	EEV-TG1E102UM
	2200	0.20	0.075	550.0	K16	1300	PCE3637CT-ND	3.48	2.87	2.66	—	PCE3637TR-ND	125	153.38	EEV-TG1E222M
35	33	0.16	1.0	11.55	E	100	PCE4113CT-ND	.74	.61	.57	.52	PCE4113TR-ND	1,000	273.00	EEE-TG1V330P
	47	0.16	1.0	16.45	E	100	PCE4116CT-ND	.76	.63	.59	.54	PCE4116TR-ND	1,000	282.00	EEE-TG1V470UP
	47	0.16	0.5	16.45	F	197	PCE4115CT-ND	.93	.76	.71	.66	PCE4115TR-ND	500	171.00	EEE-TG1V470P
	100	0.16	0.5	35.0	F	197	PCE4110CT-ND	.95	.79	.73	.67	PCE4110TR-ND	500	175.50	EEE-TG1V101UP
	100	0.16	0.3	35.0	G	270	PCE4109CT-ND	1.11	.91	.85	.78	PCE4109TR-ND	500	205.00	EEE-TG1V101P
	220	0.16	0.3	77.0	G	270	PCE4112CT-ND	1.13	.94	.87	.80	PCE4112TR-ND	500	209.50	EEE-TG1V221UP
	330	0.16	0.12	115.5	H13	800	PCE3687CT-ND	1.85	1.52	1.42	1.31	PCE3687TR-ND	1,000	564.00	EEV-TG1V331Q
	470	0.16	0.08	164.5	J16	1100	PCE3690CT-ND	2.92	2.41	2.23	—	PCE3690TR-ND	125	128.63	EEV-TG1V471M
	470	0.16	0.12	164.5	H13	800	PCE3691CT-ND	1.90	1.56	1.45	1.34	PCE3691TR-ND	200	129.00	EEV-TG1V471UQ
	680	0.16	0.075	238.0	K16	1300	PCE3692CT-ND	3.48	2.87	2.66	—	PCE3692TR-ND	125	153.38	EEV-TG1V681M
	680	0.16	0.08	238.0	J16	1100	PCE3693CT-ND	2.97	2.45	2.27	—	PCE3693TR-ND	125	130.88	EEV-TG1V681UM
	1000	0.16	0.075	350.0	K16	1300	PCE3684CT-ND	3.48	2.87	2.66	—	PCE3684TR-ND	125	153.38	EEV-TG1V102M
50	10	0.14	1.6	5.0	E	80	PCE4071CT-ND	.74	.61	.57	.52	PCE4071TR-ND	1,000	273.00	EEE-TG1H100P
	22	0.14	1.6	11.0	E	80	PCE4074CT-ND	.74	.61	.57	.52	PCE4074TR-ND	1,000	273.00	EEE-TG1H220P
	33	0.14	1.6	16.5	E	80	PCE4077CT-ND	.76	.63	.59	.54	PCE4077TR-ND	1,000	282.00	EEE-TG1H330UP
	33	0.14	0.75	16.5	F	133	PCE4076CT-ND	.93	.76	.71	.66	PCE4076TR-ND	500	171.00	EEE-TG1H330P
	47	0.14	0.75	23.5	F	133	PCE4080CT-ND	.95	.79	.73	.67	PCE4080TR-ND	500	175.50	EEE-TG1H470UP
	47	0.14	0.5	23.5	G	221	PCE4079CT-ND	1.11	.91	.85	.78	PCE4079TR-ND	500	205.00	EEE-TG1H470P
	100	0.14	0.5	50.0	G	221	PCE4072CT-ND	1.13	.94	.87	.80	PCE4072TR-ND	500	209.50	EEE-TG1H101UP
	220	0.14	0.23	110.0	H13	600	PCE3648CT-ND	1.85	1.52	1.42	1.31	PCE3648TR-ND	200	125.80	EEV-TG1H221Q
	330	0.14	0.23	165.0	H13	600	PCE3651CT-ND	1.85	1.52	1.42	1.31	PCE3651TR-ND	200	130.20	EEV-TG1H331Q
	470	0.14	0.15	235.0	J16	900	PCE3654CT-ND	2.92	2.41	2.23	—	PCE3654TR-ND	125	128.63	EEV-TG1H471M
	680	0.14	0.14	340.0	K16	950	PCE3655CT-ND	3.48	2.87	2.66	—	PCE3655TR-ND	125	153.38	EEV-TG1H681M
	680	0.14	0.15	340.0	J16	900	PCE3656CT-ND	2.97	2.45	2.27	—	PCE3656TR-ND	125	130.88	EEV-TG1H681UM
	1000	0.14	0.14	500.0	K16	950	PCE3646CT-ND	3.48	2.87	2.66	—	PCE3646TR-ND	125	153.38	EEV-TG1H102M
63	10	0.12	2.2	6.3	E	55	PCE4084CT-ND	.74	.61	.57	.52	PCE4084TR-ND	1,000	273.00	EEE-TG1J100P
	22	0.12	1.0	13.86	F	100	PCE4087CT-ND	.93	.76	.71	.66	PCE4087TR-ND	500	171.00	EEE-TG1J220P
	33	0.12	1.0	20.79	F	100	PCE4090CT-ND	.95	.79	.73	.67	PCE4090TR-ND	500	175.50	EEE-TG1J330UP
	33	0.12	0.8	20.79	G	150	PCE4089CT-ND	1.11	.91	.85	.78	PCE4089TR-ND	500	205.00	EEE-TG1J330P
	47	0.12	1.0	29.61	F	100	PCE4093CT-ND	.95	.79	.73	.67	PCE4093TR-ND	500	175.50	EEE-TG1J470UP
	47	0.12	0.8	29.61	G	150	PCE4092CT-ND	1.11	.91	.85	.78	PCE4092TR-ND	500	205.00	EEE-TG1J470P
	100	0.12	0.8	63.0	G	150	PCE4086CT-ND	1.13	.94	.87	.80	PCE4086TR-ND	500	209.50	EEE-TG1J101UP
	100	0.12	0.26	63.0	H13	350	PCE3658CT-ND	1.85	1.52	1.42	1.31	PCE3658TR-ND	200	130.20	EEV-TG1J101Q
	220	0.12	0.26	138.6	H13	350	PCE3661CT-ND	1.85	1.52	1.42	1.31	PCE3661TR-ND	200	125.80	EEV-TG1J221Q
	330	0.12	0.18	207.9	J16	500	PCE3664CT-ND	2.92	2.41	2.23	—	PCE3664TR-ND	125	128.63	EEV-TG1J331M
	470	0.12	0.18	296.1	J16	500	PCE3667CT-ND	2.92	2.41	2.23	—	PCE3667TR-ND	125	128.63	EEV-TG1J471M
80	10	0.12	1.3	8.0	F	70	PCE4095CT-ND	.93	.76	.71	.66	PCE4095TR-ND	500	171.00	EEE-TG1K100P
	22	0.12	1.3	17.6	F	70	PCE4099CT-ND	.95	.79	.73	.67	PCE4099TR-ND	500	175.50	EEE-TG1K220UP
	22	0.12	1.0	17.6	G	90	PCE4098CT-ND	1.11	.91	.85	.78	PCE4098TR-ND	500	205.00	EEE-TG1K220P
	33	0.12	1.3	26.4	F	70	PCE4103CT-ND	.95	.79	.73	.67	PCE4103TR-ND	500	175.50	EEE-TG1K330UP
	33	0.12	1.0	26.4	G	90	PCE4102CT-ND	1.11	.91	.85	.78	PCE4102TR-ND	500	205.00	EEE-TG1K330P
	47	0.12	1.0	37.6	G	90	PCE4107CT-ND	1.13	.94	.87	.80	PCE4107TR-ND	500	209.50	EEE-TG1K470UP
	47	0.12	0.42	37.6	H13	250	PCE3679CT-ND	1.85	1.52	1.42	1.31	PCE3679TR-ND	200	125.80	EEV-TG1K470Q
	100	0.12	0.3	80.0	J16	350	PCE3669CT-ND	2.92	2.41	2.23	—	PCE3669TR-ND	125	128.63	EEV-TG1K101M
	100	0.12	0.42	80.0	H13	250	PCE3670CT-ND	1.90	1.56	1.45	1.34	PCE3670TR-ND	200	129.00	EEV-TG1K101UQ
	220	0.12	0.28	176.0	K16	400	PCE3673CT-ND	3.48	2.87	2.66	—	PCE3673TR-ND	125	153.38	EEV-TG1K221M
	220	0.12	0.3	176.0	J16	350	PCE3674CT-ND	2.97	2.45	2.27	—	PCE3674TR-ND	125	130.88	EEV-TG1K221UM
	330	0.12	0.28	264.0	K16	400	PCE3677CT-ND	3.48	2.87	2.66	—	PCE3677TR-ND	125	153.38	EEV-TG1K331M
	330	0.12	0.3	264.0	J16	350	PCE3678CT-ND	2.97	2.45	2.27	—	PCE3678TR-ND	125	130.88	EEV-TG1K331UM
	470	0.12	0.28	376.0	K16	400	PCE3681CT-ND	3.48	2.87	2.66	—	PCE3681TR-ND	125	153.38	EEV-TG1K471M
100	10	0.1	1.3	10.0	F	70	PCE4121CT-ND	.93	.76	.71	.66	PCE4121TR-ND	500	171.00	EEE-TG2A100P
	22	0.1	1.3	22.0	F	70	PCE4124CT-ND	.95	.79	.73	.67	PCE4124TR-ND	500	175.50	EEE-TG2A220UP
	22	0.1	1.0	22.0	G	90	PCE4123CT-ND	1.11	.91	.85	.78	PCE4123TR-ND	500	205.00	EEE-TG2A220P
	33	0.1	1.0	33.0	G	90	PCE4126CT-ND	1.11	.91	.85	.78	PCE4126TR-ND	500	205.00	EEE-TG2A330P
	47	0.10	0.42	47.0	H13	250	PCE3701CT-ND	1.85	1.52	1.42	1.31	PCE3701TR-ND	200	125.80	EEV-TG2A470Q
	100	0.10	0.3	100.0	J16	350	PCE3695CT-ND	2.92	2.41	2.23	—	PCE3695TR-ND	125	128.63	EEV-TG2A101M
	220	0.10	0.28	220.0	K16	400	PCE3698CT-ND	3.48	2.87	2.66	—	PCE3698TR-ND	125	153.38	EEV-TG2A221M
	330	0.10	0.28	330.0	K16	400	PCE3700CT-ND	3.48	2.87	2.66	—	PCE3700TR-ND	125	153.38	EEV-TG2A331M

Panasonic TG Series Aluminum Electrolytic Capacitors, Surface Mount Type

Features: • Life Time: 1000-2000H @ 125°C • Automotive Applications • Surface Mount Type • Miniaturization (40% less than TA Series) • Low ESR (Low Temperature)

Specifications: • Operating Temperature Range: -40°C ~ 125°C • Capacitance Tolerance: ±20% (120Hz, 20°C) • Leakage Current: I ≤ 0.01CV or 3(µA) whichever is greater measured after a 2 minute application of rated working voltage at 20°C • Low Temperature Characteristics: Impedance ratio (120Hz)

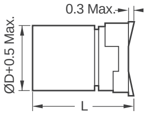

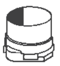

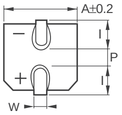

Following specified values:

Impedance 120Hz	Working Voltage							
	10V	16V	25V	35V	50V	63V	80V	100V
-25°C/20°C	3	2	2	2	2	2	2	2
-40°C/20°C	6	4	4	3	3	3	3	3

Size Code	Dimensions (mm)					
	D	L	A	I	W	P
E	8.0	6.2	8.3	3.4	0.65±0.1	2.2
F	8.0	10.2	8.3	3.4	0.90±0.2	3.1
G	10.0	10.2	10.3	3.5	0.90±0.2	4.6

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	ESR (100kHz) (+20°C) Ω	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Size	Pricing	
TG Series: –40°C ~ 125°C (1000 – 2000 Hour Life)															
10	100	0.30	1	10.0	E	100	PCE3607CT-ND	.74	.61	.57	.52	PCE3607TR-ND	1,000	260.00	EEV-TG1A101P
	220	0.30	1	22.0	F	197	PCE3610CT-ND	.93	.76	.71	.66	PCE3610TR-ND	1,000	304.00	EEV-TG1A221P
	220	0.30	0.5	22.0	E	100	PCE3611CT-ND	.76	.63	.59	.54	PCE3611TR-ND	1,000	269.00	EEV-TG1A221UP
	330	0.30	0.3	33.0	G	270	PCE3613CT-ND	1.11	.91	.85	.78	PCE3613TR-ND	500	195.00	EEV-TG1A331P
	330	0.30	0.5	33.0	F	197	PCE3614CT-ND	.95	.79	.73	.67	PCE3614TR-ND	500	167.50	EEV-TG1A331UP
	470	0.30	0.3	47.0	G	270	PCE3617CT-ND	1.13	.94	.87	.80	PCE3617TR-ND	500	199.50	EEV-TG1A471UP
16	100	0.23	0.5	16.0	F	197	PCE3619CT-ND	.93	.76	.71	.66	PCE3619TR-ND	500	163.00	EEV-TG1C101P

(Continued)

Panasonic® TG Series Aluminum Electrolytic Capacitors, Surface Mount Type *(Cont.)*

Rated W.V. (VDC)	Nom. Cap. (µF)	tan δ ≤ Spec. Values (120Hz, +20°C)	ESR (100kHz) (+20°C) Ω	Max. Leakage Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mA rms)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		Panasonic Part No.
								5	10	25	100		Size	Pricing	
16	220	0.23	0.3	35.2	G	270	PCE3622CT-ND	1.11	.91	.85	.78	PCE3622TR-ND	500	195.00	EEV-TG1C221P
	220	0.23	0.5	35.2	F	197	PCE3623CT-ND	.95	.79	.73	.67	PCE3623TR-ND	500	167.50	EEV-TG1C221UP
	330	0.23	0.3	52.8	G	270	PCE3627CT-ND	1.13	.94	.87	.80	PCE3627TR-ND	500	199.50	EEV-TG1C331UP
25	47	0.18	1	11.75	E	100	PCE3640CT-ND	.74	.61	.57	.52	PCE3640TR-ND	1,000	260.00	EEV-TG1E470P
	100	0.18	0.5	25.0	F	197	PCE3631CT-ND	.93	.76	.71	.66	PCE3631TR-ND	500	163.00	EEV-TG1E101P
	100	0.18	1	25.0	E	100	PCE3632CT-ND	.76	.63	.59	.54	PCE3632TR-ND	1,000	269.00	EEV-TG1E101UP
	220	0.18	0.3	55.0	G	270	PCE3635CT-ND	1.11	.91	.85	.78	PCE3635TR-ND	500	195.00	EEV-TG1E221P
	220	0.18	0.5	55.0	F	197	PCE3636CT-ND	.95	.79	.73	.67	PCE3636TR-ND	500	167.50	EEV-TG1E221UP
	330	0.18	0.3	82.5	G	270	PCE3639CT-ND	1.13	.94	.87	.80	PCE3639TR-ND	500	199.50	EEV-TG1E331UP
35	33	0.16	1	11.55	E	100	PCE3686CT-ND	.74	.61	.57	.52	PCE3686TR-ND	1,000	260.00	EEV-TG1V330P
	47	0.16	0.5	16.45	F	197	PCE3688CT-ND	.93	.76	.71	.66	PCE3688TR-ND	500	163.00	EEV-TG1V470P
	47	0.16	1	16.45	E	100	PCE3689CT-ND	.76	.63	.59	.54	PCE3689TR-ND	1,000	269.00	EEV-TG1V470UP
	100	0.16	0.3	35.0	G	270	PCE3682CT-ND	1.11	.91	.85	.78	PCE3682TR-ND	500	195.00	EEV-TG1V101P
	100	0.16	0.5	35.0	F	197	PCE3683CT-ND	.95	.79	.73	.67	PCE3683TR-ND	500	167.50	EEV-TG1V101UP
	220	0.16	0.3	77.0	G	270	PCE3685CT-ND	1.13	.94	.87	.80	PCE3685TR-ND	500	199.50	EEV-TG1V221UP
50	10	0.14	1.6	5.0	E	80	PCE3644CT-ND	.74	.61	.57	.52	PCE3644TR-ND	1,000	260.00	EEV-TG1H100P
	22	0.14	1.6	11.0	E	80	PCE3647CT-ND	.74	.61	.57	.52	PCE3647TR-ND	1,000	260.00	EEV-TG1H220P
	33	0.14	0.75	16.5	F	133	PCE3649CT-ND	.93	.76	.71	.66	PCE3649TR-ND	500	163.00	EEV-TG1H330P
	33	0.14	1.6	16.5	E	80	PCE3650CT-ND	.76	.63	.59	.54	PCE3650TR-ND	1,000	269.00	EEV-TG1H330UP
	47	0.14	0.5	23.5	G	221	PCE3652CT-ND	1.11	.91	.85	.78	PCE3652TR-ND	500	195.00	EEV-TG1H470P
	47	0.14	0.75	23.5	F	133	PCE3653CT-ND	.95	.79	.73	.67	PCE3653TR-ND	500	167.50	EEV-TG1H470UP
	100	0.14	0.5	50.0	G	221	PCE3645CT-ND	1.13	.94	.87	.80	PCE3645TR-ND	500	199.50	EEV-TG1H101UP
63	10	0.12	2.2	6.3	E	55	PCE3657CT-ND	.74	.61	.57	.52	PCE3657TR-ND	1,000	260.00	EEV-TG1J100P
	22	0.12	1	13.86	F	100	PCE3660CT-ND	.93	.76	.71	.66	PCE3660TR-ND	500	163.00	EEV-TG1J220P
	33	0.12	0.8	20.79	G	150	PCE3662CT-ND	1.11	.91	.85	.78	PCE3662TR-ND	500	195.00	EEV-TG1J330P
	33	0.12	1	20.79	F	100	PCE3663CT-ND	.95	.79	.73	.67	PCE3663TR-ND	500	167.50	EEV-TG1J330UP
	47	0.12	0.8	29.61	G	150	PCE3665CT-ND	1.11	.91	.85	.78	PCE3665TR-ND	500	195.00	EEV-TG1J470P
	47	0.12	1	29.61	F	100	PCE3666CT-ND	.95	.79	.73	.67	PCE3666TR-ND	500	167.50	EEV-TG1J470UP
	100	0.12	0.8	63.0	G	150	PCE3659CT-ND	1.13	.94	.87	.80	PCE3659TR-ND	500	199.50	EEV-TG1J101UP
80	10	0.12	1.3	8.0	F	70	PCE3668CT-ND	.93	.76	.71	.66	PCE3668TR-ND	500	163.00	EEV-TG1K100P
	22	0.12	1	17.6	G	90	PCE3671CT-ND	1.11	.91	.85	.78	PCE3671TR-ND	500	195.00	EEV-TG1K220P
	22	0.12	1.3	17.6	F	70	PCE3672CT-ND	.95	.79	.73	.67	PCE3672TR-ND	500	167.50	EEV-TG1K220UP
	33	0.12	1	26.4	G	90	PCE3675CT-ND	1.11	.91	.85	.78	PCE3675TR-ND	500	195.00	EEV-TG1K330P
	33	0.12	1.3	26.4	F	70	PCE3676CT-ND	.95	.79	.73	.67	PCE3676TR-ND	500	167.50	EEV-TG1K330UP
	47	0.12	1	37.6	G	90	PCE3680CT-ND	1.13	.94	.87	.80	PCE3680TR-ND	500	199.50	EEV-TG1K470UP
100	10	0.10	1.3	10.0	F	70	PCE3694CT-ND	.93	.76	.71	.66	PCE3694TR-ND	500	163.00	EEV-TG2A100P
	22	0.10	1	22.0	G	90	PCE3696CT-ND	1.11	.91	.85	.78	PCE3696TR-ND	500	195.00	EEV-TG2A220P
	22	0.10	1.3	22.0	F	70	PCE3697CT-ND	.95	.79	.73	.67	PCE3697TR-ND	500	167.50	EEV-TG2A220UP
	33	0.10	1	33.0	G	90	PCE3699CT-ND	1.11	.91	.85	.78	PCE3699TR-ND	500	195.00	EEV-TG2A330P

Panasonic® TK Series Aluminum Electrolytic Capacitors, Surface Mount Type

RoHS COMPLIANT

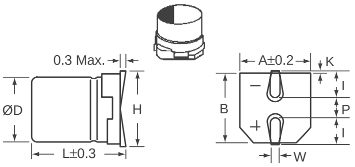

Specifications: • Category Temperature Range: -40°C ~ 125°C • Rated Voltage: 10, 16, 25, 35 • Surge Voltage: 13, 20, 32, 44 • Capacitance Tolerance: ±20% (120Hz, 20°C)

Following specified values:

Impedance 120Hz	Working Voltage			
	10	16	25	35
Z(-25°C)/Z(20°C)	3	2	2	2
Z(-40°C)/Z(20°C)	4	3	3	3

Rated Voltage Mark	
A	10V
C	16V
E	25V
V	35V

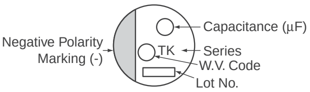

Size Code	D	L	A,B	H	I	W	P	K
F	8.0	10.2	8.3	10.0 Max.	3.4	0.90±0.2	3.1	0.70±0.2
G	10.0	10.2	10.3	12.0 Max.	3.5	0.90±0.2	4.6	0.70±0.2

Rated W.V. (VDC)	Nom. Cap. (µF)	tan d ≤ Spec. Values (120Hz, +20°C)	Max. Leak. Current (µA)	Size Code	Max. Ripple Cur. 100KHz, 125°C (mA rms)	ESR Ω Max. 100kHz		Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing 500	Panasonic Part No.
						+20°C	-40°C		5	10	25	100			
TK Series: — 40°C ~ 125°C Low ESR (3000 Hour Life)															
10	220	0.30	22.0	F	197	0.30	5.0	PCE3723CT-ND	1.16	.96	.89	.82	PCE3723TR-ND	205.00	EEE-TK1A221P
	330	0.30	33.0	F	197	0.30	5.0	PCE3724CT-ND	1.16	.96	.89	.82	PCE3724TR-ND	205.00	EEE-TK1A331UP
	330	0.30	33.0	G	270	0.20	3.0	PCE3725CT-ND	1.40	1.15	1.07	.99	PCE3725TR-ND	246.00	EEE-TK1A331P
	470	0.30	47.0	G	270	0.20	3.0	PCE3726CT-ND	1.40	1.15	1.07	.99	PCE3726TR-ND	246.00	EEE-TK1A471UP
16	100	0.23	16.0	F	197	0.30	5.0	PCE3727CT-ND	1.16	.96	.89	.82	PCE3727TR-ND	205.00	EEE-TK1C101P
	220	0.23	35.2	F	197	0.30	5.0	PCE3728CT-ND	1.16	.96	.89	.82	PCE3728TR-ND	205.00	EEE-TK1C221UP
	220	0.23	35.2	G	270	0.20	3.0	PCE3729CT-ND	1.40	1.15	1.07	.99	PCE3729TR-ND	246.00	EEE-TK1C221P
	330	0.23	52.8	G	270	0.20	3.0	PCE3730CT-ND	1.40	1.15	1.07	.99	PCE3730TR-ND	246.00	EEE-TK1C331UP
25	100	0.18	25.0	F	197	0.30	5.0	PCE3731CT-ND	1.16	.96	.89	.82	PCE3731TR-ND	205.00	EEE-TK1E101P
	220	0.18	55.0	F	197	0.30	5.0	PCE3732CT-ND	1.16	.96	.89	.82	PCE3732TR-ND	205.00	EEE-TK1E221UP
	220	0.18	55.0	G	270	0.20	3.0	PCE3733CT-ND	1.40	1.15	1.07	.99	PCE3733TR-ND	246.00	EEE-TK1E221P
	330	0.18	82.5	G	270	0.20	3.0	PCE3734CT-ND	1.40	1.15	1.07	.99	PCE3734TR-ND	246.00	EEE-TK1E331UP
35	47	0.16	16.4	F	197	0.30	5.0	PCE3735CT-ND	1.16	.96	.89	.82	PCE3735TR-ND	205.00	EEE-TK1V470P
	100	0.16	35.0	F	197	0.30	5.0	PCE3736CT-ND	1.16	.96	.89	.82	PCE3736TR-ND	205.00	EEE-TK1V101UP
	100	0.16	35.0	G	270	0.20	3.0	PCE3737CT-ND	1.40	1.15	1.07	.99	PCE3737TR-ND	246.00	EEE-TK1V101P
	220	0.16	77.0	G	270	0.20	3.0	PCE3738CT-ND	1.40	1.15	1.07	.99	PCE3738TR-ND	246.00	EEE-TK1V221UP

Panasonic® SP-Cap

Specialty Polymer Capacitor

CX Series Specialty Polymer Aluminum Electrolytic Capacitors, Surface Mount Type

RoHS COMPLIANT

Continuing the tradition of providing ultra low ESR solutions, in the Panasonic SP-Cap family, Panasonic has developed the CX Series. The CX series has a higher CV packing density which allows for better price performance. It also has a very good noise absorption properties, and is an excellent choice for input and output capacitor for CD-CD converters. Can withstand 260°C temperature.

Specifications:

• Category Temperature Range: -40°C ~ 105°C • Rated Voltage: 2V ~ 6.3V • Capacitance: 100µF ~ 330µF (120Hz 20°C) • Capacitance Tolerance: ±20% (120Hz 20°C)

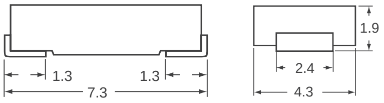

Code	Item
A	Polarity Bar (Positive)
B	R.V. Code
C	Capacitance
D	Lot No.

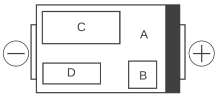

Rated W.V. (VDC)	Surge (VDC)	Nom. Cap. (µF)	tan∂ Max.	Leakage Current Max. (µA)	ESR Ω 100kHz 20°C Max.	Ripple Current 100KHz, 20°C Max.	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel Pricing 3,500	Panasonic Part No.
								1	10	100	500			
2	2.5	220	0.06	44.0	15	2.7	PCE4274CT-ND	1.16	1.00	.75	.62	PCE4274TR-ND	498.00/M	EEF-CX0D221R
2	2.5	330	0.06	66.0	15	2.7	PCE4275CT-ND	1.28	1.10	.83	.68	PCE4275TR-ND	549.00/M	EEF-CX0D331R
2.5	3.1	220	0.06	55.0	15	2.7	PCE4276CT-ND	1.28	1.10	.83	.68	PCE4276TR-ND	549.00/M	EEF-CX0E221R
4	5	150	0.06	60.0	15	2.7	PCE4277CT-ND	1.16	1.00	.75	.62	PCE4277TR-ND	498.00/M	EEF-CX0G151R
6.3	8	100	0.06	63.0	15	2.7	PCE4278CT-ND	1.28	1.10	.83	.68	PCE4278TR-ND	549.00/M	EEF-CX0J101R

Panasonic SP-Cap
Specialty Polymer Capacitor

CD Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Features: • Low profile type (1.8mm Height) of D size • Low impedance at high frequency (10kHz-10MHz) as low as ceramic capacitors (reduced ESR due to an applying speciality polymer with high conductivity) • Excellent noise-absorbent characteristics • Surface mount (reflow soldering method available) • Very stable capacitance, impedance and ESR against temperature • Excellent endurance characteristics due to adoption of solid electrolyte

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz/ 20°C) • **DC Leakage Current:** I≤ 0.04CV or 3μA after 2 minutes (whichever is greater) • **Dissipation Factor:** ≤0.06 (120Hz/ 20°C) • **Surge Voltage:** Rated Working Voltage x 1.25 • **Endurance:** After applying rated working voltage for 1000 hours at 105°C, and then being stabilized at 20°C, capacitor shall meet following limits: Capacitance Change (±10% of initial measured value) DF and DC leakage current (initial specified value) • **Moisture Resistance:** (After storing for 500 hours at 60°C, 90-95% R.H.) Capacitance Change (+40%, of initial measured value, -20% (**6.3V:** +50%, -20%). DF ≤200% initial specified value. DC leakage current (initial specified value).

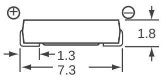

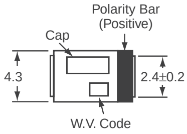

† **SP2-KIT-ND** ***Digi-Key® UD/UE/CD/S Series Capacitors Kit*** 15 each of values denoted (180 total pieces). Kit consists of parts, hinged plastic storage box with selector guide, and a business card CDROM containing data sheets and application guide **$34.99**

W.V.	Cap. (μF)	Impedance (100kHz/ 20°C)	Ripple Current (100kHz/ 20 ~105°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R* Pricing 3,500	Panasonic Part No.
2	100	0.018Ω	2.5A rms	PCE3271CT-ND	1.77	1.34	1.16	532.00/M	EEF-CD0D101R
	120	0.018Ω	2.5A rms	PCE2107CT-ND	1.96	1.47	1.28	587.00/M	EEF-CD0D121R
	150	0.018Ω	2.5A rms	PCE3561CT-ND	1.64	1.55	1.34	617.00/M	EEF-CD0D151R
2.5	82	0.018Ω	2.5A rms	PCE3272CT-ND	1.77	1.34	1.16	532.00/M	EEF-CD0E820R
	100	0.018Ω	2.5A rms	PCE2108CT-ND	1.96	1.47	1.28	587.00/M	EEF-CD0E101R
	120	0.018Ω	2.5A rms	PCE3562CT-ND	1.64	1.55	1.34	617.00/M	EEF-CD0E121R
4	56	0.018Ω	2.5A rms	PCE3274CT-ND	1.77	1.34	1.16	532.00/M	EEF-CD0G560R
	68	0.018Ω	2.5A rms	PCE3977CT-ND	1.96	1.47	1.28	587.00/M	EEF-CD0G680R
	82	0.018Ω	2.5A rms	PCE2109CT-ND†	1.96	1.47	1.28	587.00/M	EEF-CD0G820R
	100	0.025Ω	1.8A rms	PCE3605CT-ND	1.56	1.37	1.18	587.00/M	EEF-CD0G101R
6.3	10	0.055Ω	1.4A rms	PCE3157CT-ND	1.65	1.24	1.07	494.00/M	EEF-CD0J100R
	22	0.040Ω	1.6A rms	PCE3158CT-ND	1.69	1.27	1.10	506.00/M	EEF-CD0J220R
	33	0.028Ω	2.0A rms	PCE3159CT-ND	1.73	1.30	1.13	519.00/M	EEF-CD0J330R
	47	0.018Ω	2.5A rms	PCE3160CT-ND	1.77	1.34	1.16	532.00/M	EEF-CD0J470R
	68	0.018Ω	2.5A rms	PCE2110CT-ND†	1.96	1.47	1.28	587.00/M	EEF-CD0J680R
8	8.2	0.055Ω	1.4A rms	PCE3161CT-ND	1.65	1.24	1.07	494.00/M	EEF-CD0K8R2R
	15	0.040Ω	1.6A rms	PCE3162CT-ND	1.69	1.27	1.10	506.00/M	EEF-CD0K150R
	22	0.028Ω	2.0A rms	PCE3163CT-ND	1.73	1.30	1.13	519.00/M	EEF-CD0K220R
	33	0.018Ω	2.5A rms	PCE3164CT-ND	1.77	1.34	1.16	532.00/M	EEF-CD0K330R
	47	0.025Ω	1.8A rms	PCE3606CT-ND	1.56	1.37	1.18	587.00/M	EEF-CD0K470R
12.5	4.7	0.080Ω	1A rms	PCE3165CT-ND	1.65	1.24	1.07	494.00/M	EEF-CD1B4R7R
	10	0.060Ω	1A rms	PCE3166CT-ND	1.69	1.27	1.10	506.00/M	EEF-CD1B100R
	15	0.050Ω	1.3A rms	PCE3167CT-ND	1.73	1.30	1.13	519.00/M	EEF-CD1B150R
	22	0.030Ω	1.6A rms	PCE3168CT-ND	1.77	1.34	1.16	532.00/M	EEF-CD1B220R
16	2.2	0.110Ω	1A rms	PCE3169CT-ND	1.65	1.24	1.07	494.00/M	EEF-CD1C2R2R
	4.7	0.080Ω	1A rms	PCE3170CT-ND	1.69	1.27	1.10	506.00/M	EEF-CD1C4R7R
	6.8	0.070Ω	1A rms	PCE3171CT-ND	1.73	1.30	1.13	519.00/M	EEF-CD1C6R8R
	8.2	0.045Ω	1.3A rms	PCE3172CT-ND†	1.77	1.34	1.16	532.00/M	EEF-CD1C8R2R

* For Tape and Reel Part Number, change CT-ND to TR-ND.

Panasonic SP-Cap
Specialty Polymer Capacitor

UD/UE Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

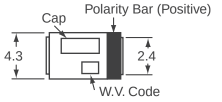

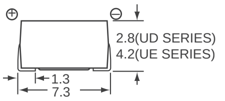

Features: • Low impedance at high frequency (10kHz to 10MHz) as low as ceramic capacitors (Reduced ESR due to applying speciality polymer with high conductivity) • Stable temperature characteristics: capacitance, impedance and ESR • Excellent noise-absorbent characteristics • Voltage derating not necessary • Excellent endurance characteristics due to adoption of solid electrolyte

Specifications: • **Operating Temperature Range:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% (120Hz/20°C) • **DC Leakage Current:** 4V I≤ 0.06CV, 6.3 to 8V I≤ 0.04CV after 2 minutes • **Dissipation Factor:** UD, UE Series ≤0.1 maximum CD Series ≤0.06 maximum (120Hz/+20°C) • **Surge Voltage:** Rated Working Voltage x 1.25 • **Endurance:** After applying rated working voltage for 1000 hours at 105°C, and then being stabilized at 20°C, capacitor shall meet following limits: Capacitance Change (±10% of initial measured value). DF (initial specified value). DC leakage current (initial specified value). • **Moisture Resistance:** (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change (*2V, 2.5V:* +70%, -20%, *4V:* +60%, -20%, *6.3V:* +50%, -20%, *8V:* +40%, -20% of initial measured value). DF ≤200% initial specified value. DC leakage current (initial specified value).

W.V. (VDC)	Capacitance (μF)	ESR (100kHz/20°C) Max.	Ripple Current (100kHz/20 ~ 105°C)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
					UD Series					
2	180	.015Ω	3.0A	PCE3262CT-ND	3.55	2.67	2.31	PCE3262TR-ND	1065.00/M	EEF-UD0D181R
	220	.015Ω	3.0A	PCE3973CT-ND	3.73	2.80	2.43	PCE3973TR-ND	1119.00/M	EEF-UD0D221R
	270	.015Ω	3.0A	PCE2111CT-ND	3.90	2.93	2.54	PCE2111TR-ND	1171.00/M	EEF-UD0D271R
	270	.09Ω	3.4A	PCE4269CT-ND	2.25	1.94	1.45	PCE4269TR-ND	966.00/M	EEF-UD0D271LR
	330	.015Ω	3.0A	PCE3563CT-ND	3.28	3.08	2.67	PCE3563TR-ND	1230.00/M	EEF-UD0D331R
	330	.09Ω	3.4A	PCE4270CT-ND	2.25	1.94	1.45	PCE4270TR-ND	966.00/M	EEF-UD0D331LR
	390	.09Ω	3.4A	PCE4282CT-ND	2.73	2.35	1.76	PCE4282TR-ND	1171.00/M	EEF-UD0D391R
	470	.09Ω	3.4A	PCE4272CT-ND	2.25	1.94	1.45	PCE4272TR-ND	966.00/M	EEF-UD0D471LR
2.5	150	.015Ω	3.0A	PCE3273CT-ND	3.55	2.67	2.31	PCE3273TR-ND	1065.00/M	EEF-UD0E151R
	180	.015Ω	3.0A	PCE3974CT-ND	3.73	2.80	2.43	PCE3974TR-ND	1119.00/M	EEF-UD0E181R
	220	.015Ω	3.0A	PCE2112CT-ND	3.90	2.93	2.54	PCE2112TR-ND	1171.00/M	EEF-UD0E221R
	220	.09Ω	3.4A	PCE4265CT-ND	2.25	1.94	1.45	PCE4265TR-ND	966.00/M	EEF-UD0E221LR
	270	.015Ω	3.0A	PCE3564CT-ND	3.28	3.08	2.67	PCE3564TR-ND	1230.00/M	EEF-UD0E271R
	270	.09Ω	3.4A	PCE4268CT-ND	2.25	1.94	1.45	PCE4268TR-ND	966.00/M	EEF-UD0E271LR
	330	.09Ω	3.4A	PCE4283CT-ND	2.73	2.35	1.76	PCE4283TR-ND	1171.00/M	EEF-UD0E331R
4	120	.015Ω	3.0A	PCE3263CT-ND	3.55	2.67	2.31	PCE3263TR-ND	1065.00/M	EEF-UD0G121R
	150	.015Ω	3.0A	PCE2113CT-ND	3.90	2.93	2.54	PCE2113TR-ND	1171.00/M	EEF-UD0G151R
	150	.09Ω	3.4A	PCE4267CT-ND	2.25	1.94	1.45	PCE4267TR-ND	966.00/M	EEF-UD0G151LR
	180	.018Ω	2.5A	PCE3599CT-ND†	3.12	2.74	2.35	PCE3599TR-ND	1171.00/M	EEF-UD0G181R
	180	.09Ω	3.4A	PCE4271CT-ND	2.25	1.94	1.45	PCE4271TR-ND	966.00/M	EEF-UD0G181LR
6.3	100	.015Ω	3.0A	PCE3264CT-ND	3.55	2.67	2.31	PCE3264TR-ND	1065.00/M	EEF-UD0J101R
	120	.015Ω	3.0A	PCE2114CT-ND	3.90	2.93	2.54	PCE2114TR-ND	1171.00/M	EEF-UD0J121R
	120	.09Ω	3.4A	PCE4266CT-ND	2.25	1.94	1.45	PCE4266TR-ND	966.00/M	EEF-UD0J121LR
	150	.018Ω	2.5A	PCE3600CT-ND†	3.12	2.74	2.35	PCE3600TR-ND	1171.00/M	EEF-UD0J151R
	150	.09Ω	3.4A	PCE4273CT-ND	2.25	1.94	1.45	PCE4273TR-ND	966.00/M	EEF-UD0J151LR
8	68	.015Ω	3.0A	PCE3265CT-ND	3.55	2.67	2.31	PCE3265TR-ND	1065.00/M	EEF-UD0K680R
	100	.018Ω	2.5A	PCE3601CT-ND	3.12	2.74	2.35	PCE3601TR-ND	1171.00/M	EEF-UD0K101R
					UE Series					
2	270	.012Ω	3.3A	PCE3266CT-ND	4.74	3.56	3.09	PCE3266TR-ND	1422.00/M	EEF-UE0D271R
	330	.012Ω	3.3A	PCE3975CT-ND	4.98	3.74	3.24	PCE3975TR-ND	1493.00/M	EEF-UE0D331R
	390	.012Ω	3.3A	PCE2115CT-ND	5.22	3.92	3.40	PCE2115TR-ND	1565.00/M	EEF-UE0D391R
	390	.07Ω	3.7A	PCE4257CT-ND	3.38	2.91	2.18	PCE4257TR-ND	1451.00/M	EEF-UE0D391LR
	470	.012Ω	3.3A	PCE3567CT-ND	4.38	4.11	3.56	PCE3567TR-ND	1643.00/M	EEF-UE0D471R
	470	.07Ω	3.7A	PCE4258CT-ND	3.38	2.91	2.18	PCE4258TR-ND	1451.00/M	EEF-UE0D471LR
	560	.07Ω	3.7A	PCE4284CT-ND	3.65	3.13	2.35	PCE4284TR-ND	1565.00/M	EEF-UE0D561R
	560	.07Ω	3.7A	PCE4256CT-ND	3.38	2.91	2.18	PCE4256TR-ND	1451.00/M	EEF-UE0D561LR
2.5	220	.012Ω	3.3A	PCE3267CT-ND	4.74	3.56	3.09	PCE3267TR-ND	1422.00/M	EEF-UE0E221R
	270	.012Ω	3.3A	PCE3976CT-ND	4.98	3.74	3.24	PCE3976TR-ND	1493.00/M	EEF-UE0E271R
	330	.012Ω	3.3A	PCE2116CT-ND	5.22	3.92	3.40	PCE2116TR-ND	1565.00/M	EEF-UE0E331R
	330	.07Ω	3.7A	PCE4259CT-ND	3.38	2.91	2.18	PCE4259TR-ND	1451.00/M	EEF-UE0E331LR
	390	.012Ω	3.3A	PCE3568CT-ND	4.38	4.11	3.56	PCE3568TR-ND	1643.00/M	EEF-UE0E391R
	390	.07Ω	3.7A	PCE4261CT-ND	3.38	2.91	2.18	PCE4261TR-ND	1451.00/M	EEF-UE0E391LR
4	180	.012Ω	3.3A	PCE3268CT-ND	4.74	3.56	3.09	PCE3268TR-ND	1422.00/M	EEF-UE0G181R
	220	.012Ω	3.3A	PCE2117CT-ND	5.22	3.92	3.40	PCE2117TR-ND	1565.00/M	EEF-UE0G221R
	220	.07Ω	3.7A	PCE4260CT-ND	3.38	2.91	2.18	PCE4260TR-ND	1451.00/M	EEF-UE0G221LR
	270	.015Ω	3.0A	PCE3602CT-ND†	4.17	3.66	3.13	PCE3602TR-ND	1565.00/M	EEF-UE0G271R
	270	.07Ω	3.7A	PCE4264CT-ND	3.38	2.91	2.18	PCE4264TR-ND	1451.00/M	EEF-UE0G271LR
	330	.07Ω	3.7A	PCE4285CT-ND	3.65	3.13	2.35	PCE4285TR-ND	1565.00/M	EEF-UE0G331R
6.3	150	.012Ω	3.3A	PCE3269CT-ND	4.74	3.56	3.09	PCE3269TR-ND	1422.00/M	EEF-UE0J151R
	180	.012Ω	3.3A	PCE2118CT-ND	5.22	3.92	3.40	PCE2118TR-ND	1565.00/M	EEF-UE0J181R
	180	.07Ω	3.7A	PCE4262CT-ND	3.38	2.91	2.18	PCE4262TR-ND	1451.00/M	EEF-UE0J181LR
	220	.015Ω	3.0A	PCE3603CT-ND†	4.17	3.66	3.13	PCE3603TR-ND	1565.00/M	EEF-UE0J221R
	220	.07Ω	3.7A	PCE4263CT-ND	3.38	2.91	2.18	PCE4263TR-ND	1451.00/M	EEF-UE0J221LR
8	100	.012Ω	3.3A	PCE3270CT-ND	4.74	3.56	3.09	PCE3270TR-ND	1422.00/M	EEF-UE0K101R
	150	.015Ω	3.0A	PCE3604CT-ND	4.17	3.66	3.13	PCE3604TR-ND	1565.00/M	EEF-UE0K151R

† **SP2-KIT-ND** ***Digi-Key® UD/UE/CD/S Series Capacitors Kit***
15 each of values denoted (180 total pieces). Kit consists of parts, hinged plastic storage box with selector guide, and a business card CDROM containing data sheets and application guide **$34.99**

Panasonic® SP-Cap Specialty Polymer Capacitor

S Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Features: • Lower ESR • Higher Ripple Current

Specifications: • Operating Temperature Range: -40°C ~ 105°C • Rated W.V. Range: 2 ~ 6.3VDC • Nominal Capacitance Range: 56 ~ 560µF • Capacitance Tolerance: ±20% (120Hz/ 20°C) • DC Leakage Current: I≤ 0.06CV after 2 minutes • Dissipation Factor: 0.06 maximum (SL/SX), 0.10 maximum (SD/SE) (120Hz/ 20°C) • Surge Voltage: Rated Working Voltage x 1.25 (15°C ~ 35°C) • Endurance: After applying rated working voltage for 1,000 hours at 105±2°C, and then being stabilized at 20°C, the capacitor shall meet the following limits. Capacitance change ±10% of initial measured value. D.F.and DC leakage current are ≤Initial specified value. • Moisture Resistance: (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change: (2 W.V./ 2.5 W.V.: +70%, -20%; 4 W.V.: +60%, -20%; 6.3 W.V.: +50%, -20%, of initial measured value). DF ≤200% initial specified value. DC leakage current initial specified value.

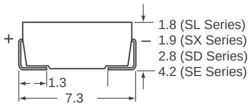

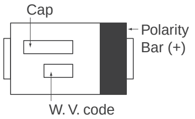

† **SP2-KIT-ND** *Digi-Key® UD/UE/CD/S Series Capacitors Kit*
15 each of values denoted (180 total pieces). Kit consists of parts, hinged plastic storage box with selector guide, and a business card CDROM containing data sheets and application guide **$34.99**

W.V.	Cap. (µF)	ESR (100KHz/20°C)	Ripple Current (100KHz/ 105°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Size	Pricing	Panasonic Part No.
2	100	.009Ω	3A	PCE3978CT-ND	2.15	1.62	1.40	3,500	645.00/M	EEF-SL0D101R
2	120	.009Ω	3A	PCE3551CT-ND†	1.72	1.62	1.40	3,500	645.00/M	EEF-SL0D121R
2	150	.009Ω	3A	PCE3552CT-ND	1.81	1.70	1.48	3,500	680.00/M	EEF-SL0D151R
2	180	.009Ω	3A	PCE3702CT-ND	1.81	1.70	1.48	3,500	680.00/M	EEF-SL0D181R
2.5	100	.009Ω	3A	PCE3553CT-ND	1.72	1.62	1.40	3,500	645.00/M	EEF-SL0E101R
2.5	120	.009Ω	3A	PCE3554CT-ND	1.81	1.70	1.48	3,500	680.00/M	EEF-SL0E121R
4	82	.009Ω	3A	PCE3555CT-ND	1.72	1.62	1.40	3,500	645.00/M	EEF-SL0G820R
6.3	56	.009Ω	3A	PCE3556CT-ND	1.72	1.62	1.40	3,500	645.00/M	EEF-SL0J560R
2	180	.009Ω	3A	PCE3557CT-ND	1.99	1.87	1.62	3,500	747.00/M	EEF-SX0D181R
2	220	.009Ω	3A	PCE3703CT-ND†	1.99	1.87	1.62	3,500	747.00/M	EEF-SX0D221R
2	270	.009Ω	3A	PCE4280CT-ND	1.74	1.50	1.13	3,500	747.00/M	EEF-SX0D271R
2	330	.009Ω	3A	PCE4281CT-ND	1.74	1.50	1.13	3,500	747.00/M	EEF-SX0D331R
2.5	150	.009Ω	3A	PCE3558CT-ND	1.99	1.87	1.62	3,500	747.00/M	EEF-SX0E151R
2.5	180	.009Ω	3A	PCE3979CT-ND	2.49	1.87	1.62	3,500	747.00/M	EEF-SX0E181R
4	82	.009Ω	3A	PCE3980CT-ND	2.49	1.87	1.62	3,500	747.00/M	EEF-SX0G820R
4	100	.009Ω	3A	PCE3559CT-ND	1.99	1.87	1.62	3,500	747.00/M	EEF-SX0G101R
6.3	68	.009Ω	3A	PCE3560CT-ND	1.99	1.87	1.62	3,500	747.00/M	EEF-SX0J680R
2	270	.007Ω	3.5A	PCE3539CT-ND	3.44	3.23	2.80	2,000	1289.00/M	EEF-SD0D271R
2	330	.007Ω	3.5A	PCE3540CT-ND†	3.61	3.39	2.94	2,000	1353.00/M	EEF-SD0D331R
2	390	.007Ω	3.5A	PCE3704CT-ND	3.61	3.39	2.94	2,000	1353.00/M	EEF-SD0D391R
2.5	220	.007Ω	3.5A	PCE3541CT-ND	3.44	3.23	2.80	2,000	1289.00/M	EEF-SD0E221R
2.5	270	.007Ω	3.5A	PCE3542CT-ND	3.61	3.39	2.94	2,000	1353.00/M	EEF-SD0E271R
4	150	.007Ω	3.5A	PCE3543CT-ND	3.44	3.23	2.80	2,000	1289.00/M	EEF-SD0G151R
6.3	120	.007Ω	3.5A	PCE3544CT-ND	3.44	3.23	2.80	2,000	1289.00/M	EEF-SD0J121R
2	390	.005Ω	4A	PCE3545CT-ND	4.59	4.31	3.73	2,000	1721.00/M	EEF-SE0D391R
2	470	.005Ω	4A	PCE3546CT-ND†	4.82	4.52	3.92	2,000	1808.00/M	EEF-SE0D471R
2	560	.005Ω	4A	PCE3705CT-ND	4.82	4.52	3.92	2,000	1808.00/M	EEF-SE0D561R
2.5	330	.005Ω	4A	PCE3547CT-ND	4.59	4.31	3.73	2,000	1721.00/M	EEF-SE0E331R
2.5	390	.005Ω	4A	PCE3548CT-ND	4.82	4.52	3.92	2,000	1808.00/M	EEF-SE0E391R
2.5	470	.005Ω	4A	PCE4279CT-ND	4.22	3.62	2.72	2,000	1808.00/M	EEF-SE0E471R
4	220	.005Ω	4A	PCE3549CT-ND†	4.59	4.31	3.73	2,000	1721.00/M	EEF-SE0G221R
6.3	180	.005Ω	4A	PCE3550CT-ND	4.59	4.31	3.73	2,000	1721.00/M	EEF-SE0J181R

* For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic® SP-Cap Specialty Polymer Capacitor

FD Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Features: • Low profile type (1.1mm Height) • Low impedance at high frequency (10kHz-10MHz) as low as ceramic capacitors (reduced ESR due to applying specialty polymer with high conductivity) • Excellent noise-absorbent characteristics • Surface mount (reflow soldering method avail.) • Very stable capacitance, impedance and ESR against temperature • Excellent endurance character due to adoption of solid electrolyte

Specifications: • Operating Temperature Range: -40°C ~ 105°C • Capacitance Tolerance: 20% (120Hz/ 20°C) • DC Leakage Current: I ≤ 0.04 CV or 3 (µA) after 2 minutes (whichever is the greater) (2 W.V. to 4 W.V.: I ≤ 0.06 CV) • Dissipation Factor: ≤0.06 (120Hz/ 20°C) • Surge Voltage: Rated Working Voltage x 1.25 (15°C ~ 35°C) • Endurance: After applying rated working voltage for 1000 hours at 105±2°C, and then being stabilized at 20°C, capacitor shall meet the following limits: Capacitance change (±10% of initial measured value). tan (≤initial specified value). DC leakage current (≤initial specified value). • Moisture Resistance: (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change +40%, -20% of initial measured value (4 W.V.: +60%, -20%; 6.3 W.V.: +50%, -20%). D.F.≤200% initial specified value. DC leakage current (≤initial specified value).

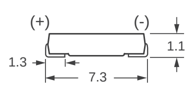

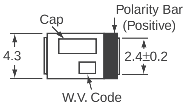

W.V.	Cap. (µF)	Impedance (400kHz/20°C)	Ripple Current (100kHz/20 ~105°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing* 3,500	Panasonic Part No.
2	68	0.035Ω	1.6A	PCE2105CT-ND	1.96	1.47	1.28	587.00/M	EEF-FD0D680R
2.5	56	0.035Ω	1.6A	PCE2106CT-ND	1.96	1.47	1.28	587.00/M	EEF-FD0E560R
4	39	0.035Ω	1.6A	PCE3451CT-ND	1.96	1.47	1.28	587.00/M	EEF-FD0G390R
6.3	33	0.035Ω	1.6A	PCE3452CT-ND	1.96	1.47	1.28	587.00/M	EEF-FD0J330R
8	22	0.035Ω	1.6A	PCE3453CT-ND	1.96	1.47	1.28	587.00/M	EEF-FD0K220R

* For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic® SP-Cap Specialty Polymer Capacitor

H Series Specialty Polymer Aluminum Electrolytic Chip Capacitors, Surface Mount Type

Features: • High Reliability (125°C) • Low ESR and High Ripple Current

Specifications: • Operating Temperature Range: -40°C ~ 125°C • Capacitance Tolerance: ±20% (120Hz/ 20°C) • DC Leakage Current: I≤ 0.1CV after 2 minutes • Dissipation Factor: 0.1 max (120Hz/ 20°C) • Surge Voltage: Rated Working Voltage x 1.25 (15°C ~ 35°C) • Endurance: After applying rated working voltage for 1,000 hours or derated voltage (working voltage x 0.875 at 115°C or working voltage x 0.75 at 125°C) and then being stabilized at 20°C, the capacitor shall meet the following limits. Capacitance change ±10% of initial measured value. D.F.≤Initial specified value. • Moisture Resistance: (After storing for 500 hours at 60°C, 90% R.H.) Capacitance Change (*2V / 2.5V:* +70%, -20%, *4V:* +60%, -20%, *6.3V:* +50%, -20%, 8V: +40%, -20% of initial measured value). DF ≤200% initial specified value. DC leakage current (initial specified value).

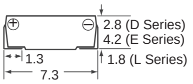

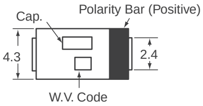

W.V.	Cap. (µF)	ESR (100KHz/ 20°C)	Ripple Current (100KHz/ 125°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Size	Pricing	Panasonic Part No.
				D Series						
2	180	.015Ω	2.5A	PCE2119CT-ND	3.90	2.93	2.54	2,000	1171.00/M	EEF-HD0D181R
2	220	.015Ω	2.5A	PCE3529CT-ND	3.28	3.08	2.67	2,000	1232.00/M	EEF-HD0D221R
2.5	150	.015Ω	2.5A	PCE2120CT-ND	3.90	2.93	2.54	2,000	1171.00/M	EEF-HD0E151R
2.5	180	.015Ω	2.5A	PCE3530CT-ND	3.28	3.08	2.67	2,000	1232.00/M	EEF-HD0E181R
4	120	.015Ω	2.5A	PCE2121CT-ND	3.90	2.93	2.54	2,000	1171.00/M	EEF-HD0G121R
6.3	100	.015Ω	2.5A	PCE2122CT-ND	3.90	2.93	2.54	2,000	1171.00/M	EEF-HD0J101R
8	68	.015Ω	2.5A	PCE2123CT-ND	3.90	2.93	2.54	2,000	1171.00/M	EEF-HD0K680R
				E Series						
2	270	.012Ω	3.0A	PCE2124CT-ND	5.22	3.92	3.40	2,000	1565.00/M	EEF-HE0D271R
2	330	.012Ω	3.0A	PCE3531CT-ND	4.38	4.11	3.56	2,000	1643.00/M	EEF-HE0D331R
2.5	220	.012Ω	3.0A	PCE2125CT-ND	5.22	3.92	3.40	2,000	1565.00/M	EEF-HE0E221R
2.5	270	.012Ω	3.0A	PCE3532CT-ND	4.38	4.11	3.56	2,000	1643.00/M	EEF-HE0E271R
4	180	.012Ω	3.0A	PCE2126CT-ND	5.22	3.92	3.40	2,000	1565.00/M	EEF-HE0G181R
6.3	150	.012Ω	3.0A	PCE2127CT-ND	5.22	3.92	3.40	2,000	1565.00/M	EEF-HE0J151R
8	100	.012Ω	3.0A	PCE2128CT-ND	5.22	3.92	3.40	2,000	1565.00/M	EEF-HE0K101R
				L Series						
2	100	.018Ω	1.8A	PCE3533CT-ND	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0D101R
2.5	82	.018Ω	1.8A	PCE3534CT-ND	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0E820R
4	56	.018Ω	1.8A	PCE3535CT-ND	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0G560R
4	68	.018Ω	1.8A	PCE3536CT-ND	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0G680R
6.3	47	.018Ω	1.8A	PCE3537CT-ND	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0J470R
8	33	.018Ω	1.8A	PCE3538CT-ND	1.56	1.47	1.28	3,500	587.00/M	EEF-HL0K330R

* For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic® SP-Cap Specialty Polymer Capacitor

SP/CB Series Specialty Polymer Aluminum Electrolytic Capacitors, Surface Mount Type

Features:
- Excellent noise-absorbent characteristics • Surface mountable (Flow and reflow soldering method available) • Very stable capacitance, impedance and ESR against temperature • Excellent endurance characteristics due to an adoption of solid electrolyte

Specifications:
- Operating Temperature Range: -40°C ~ 105°C • Capacitance Tolerance: ±20% (120Hz, +20°C) • Leakage Current: I≤ 0.04 CV or 3µA after 2 minutes • Dissipation Factor: ≤0.06 (120ºHz/+20°C) • Permissible Current Between Terminals with Same Polarity: 2A DC maximum (This shall be applicable only when each terminal is landed individually as shown in Fig. 2.) • Surge Voltage: Rated working voltage x 1.25 • Endurance: After applying rated working voltage for 1000 hours at 105°C, and then being stabilized at 20°C, capacitor shall meet the following limits: Capacitance Change (±10% of initial measured value); tan, Impedance and DC Leakage Current (Initial specified value).

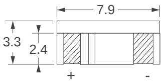

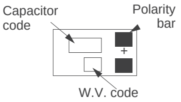

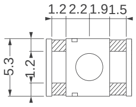

Rated W.V. (VDC)	Nom. Cap. (µF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Panasonic Part No.
6.3	10	PCS1100BCT-ND	2.41	2.01	1.74	PCS1100BTR-ND	804.00/M	ECG-C0JB100R
6.3	22	PCS1220JBCT-ND	2.92	2.44	2.11	PCS1220JBTR-ND	976.00/M	ECG-C0JB220R
6.3	33	PCS1330BCT-ND	3.56	2.97	2.57	PCS1330BTR-ND	1188.00/M	ECG-C0JB330R
8	8.2	PCS18R2BCT-ND	2.41	2.01	1.74	PCS18R2BTR-ND	804.00/M	ECG-C0KB8R2R
8	15	PCS1150BCT-ND	2.92	2.44	2.11	PCS1150BTR-ND	976.00/M	ECG-C0KB150R
8	22	PCS1220BCT-ND	3.56	2.97	2.57	PCS1220BTR-ND	1188.00/M	ECG-C0KB220R
12.5	4.7	—	—	—	—	PCE2101TR-ND	1354.00/M	ECG-C1BA4R7R
16	4.7	PCS34R7BCT-ND	2.41	2.01	1.74	PCS34R7BTR-ND	804.00/M	ECG-C1CB4R7R
16	6.8	PCS36R8BCT-ND	2.92	2.44	2.11	PCS36R8BTR-ND	976.00/M	ECG-C1CB6R8R

nichicon

VR Series Aluminum Electrolytic Capacitors (Radial Lead)

General Purpose 85°C

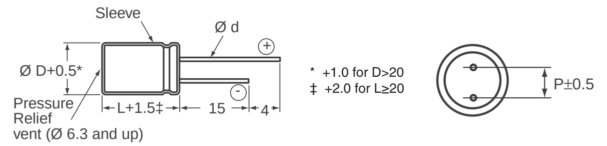

FEATURES: • Radial lead standard type for general purpose • Miniature sized • Life: 2000 hours at 85°C

SPECIFICATIONS:

Temperature Range	-40°C ~ 85°C (6.3V ~ 400V), -25°C ~ 85°C (450V)
Capacitance Tolerance	±20% at 120Hz, 20°C

- **Leakage Current:**

Rated Voltage: 6.3V to 100V	Rated Voltage: 160V to 450V
After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4(μA), whichever is greater.	After 1 minute application of rated voltage, CV ≤ 1000: I=0.1CV+40μA or less
After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (μA), whichever is greater.	After 1 minute application of rated voltage, CV > 1000: I=0.04CV +100μA or less

- **tan δ:**

For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.
Measurement frequency: 120Hz, Temperature: 20°C.

Rated Voltage (V)	6.3	10	16	25	35	50	63	100	160 to 315	350 to 450
tan δ (Max.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25

- **Stability at Low Temperature:**

Rated Voltage (V)		6.3	10	16	25	35	50	63	100	160-200	250-350	400	450
Impedance Ratio ZT/Z20 Max.	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	3	4	6	15
	Z-40°C/Z+20°C	12	10	8	5	4	3	3	3	4	8	10	—

- **Endurance:** After 2000 hours application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

- **Shelf Life:** After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for endurance characteristics listed above
- **Marking:** Printed with white color letter on black sleeve

Rated W.V. (VDC)	Cap. (μF)	Leakage Current (μA)	tan δ Maximum @120Hz/20°C	Rated Ripple Cur. @120Hz/85°C (mA rms)	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Nichicon Part No.
6.3	22	3.00	0.28	65	5.0	11.0	2.0	0.5	493-1000-ND	.20	1.24	8.37	UVR0J220MDD
	33	3.00	0.28	80	5.0	11.0	2.0	0.5	493-1001-ND	.20	1.24	8.37	UVR0J330MDD
	47	3.00	0.28	95	5.0	11.0	2.0	0.5	493-1002-ND	.20	1.24	8.37	UVR0J470MDD
	100	6.30	0.28	135	5.0	11.0	2.0	0.5	493-1003-ND	.24	1.52	10.23	UVR0J101MDD
	220	13.86	0.28	200	5.0	11.0	2.0	0.5	493-1004-ND	.24	1.60	11.28	UVR0J221MDD
	330	20.79	0.28	270	6.3	11.0	2.5	0.5	493-1005-ND	.26	1.79	12.65	UVR0J331MED
	470	29.61	0.28	320	6.3	11.0	2.5	0.5	493-1006-ND	.29	1.99	14.03	UVR0J471MED
	1000	63.00	0.28	540	8.0	11.5	3.5	0.6	493-1007-ND	.41	3.01	21.50	UVR0J102MPD
	2200	138.60	0.30	1000	10.0	20.0	5.0	0.6	493-1008-ND	.57	4.24	30.25	UVR0J222MPD
	3300	207.90	0.32	1190	10.0	20.0	5.0	0.6	493-1009-ND	.58	4.29	31.49	UVR0J332MPD
	4700	296.10	0.34	1550	12.5	20.0	5.0	0.6	493-1010-ND	.96	7.14	52.41	UVR0J472MHD
	6800	428.40	0.38	1920	12.5	25.0	5.0	0.6	493-1011-ND	1.25	9.39	70.43	UVR0J682MHD
	10000	630.00	0.46	2350	16.0	25.0	7.5	0.8	493-1012-ND	1.64	12.30	92.25	UVR0J103MHD
	15000	945.00	0.56	2850	16.0	35.5	7.5	0.8	493-1013-ND	1.91	14.34	107.55	UVR0J153MHD
	22000	1386.00	0.70	3350	18.0	40.0	7.5	0.8	493-1014-ND	1.97	14.92	112.60	UVR0J223MHD
	22000	1386.00	0.70	3200	22.0	30.0	10.0	1.0	493-1015-ND	1.97	14.92	112.60	UVR0J223MRD6
	33000	2079.00	0.92	3900	22.0	50.0	10.0	1.0	493-1016-ND	4.98	37.68	284.40	UVR0J333MRD
	33000	2079.00	0.92	3800	25.0	40.0	12.5	1.0	493-1017-ND	4.98	37.68	284.40	UVR0J333MRD6
10	22	3.00	0.24	65	5.0	11.0	2.0	0.5	493-1018-ND	.20	1.24	8.37	UVR1A220MDD
	33	3.30	0.24	85	5.0	11.0	2.0	0.5	493-1019-ND	.20	1.24	8.37	UVR1A330MDD
	47	4.70	0.24	100	5.0	11.0	2.0	0.5	493-1020-ND	.20	1.24	8.37	UVR1A470MDD
	100	10.00	0.24	145	5.0	11.0	2.0	0.5	493-1021-ND	.24	1.52	10.23	UVR1A101MDD
	220	22.00	0.24	240	6.3	11.0	2.5	0.5	493-1022-ND	.26	1.79	12.65	UVR1A221MED
	330	33.00	0.24	290	6.3	11.0	2.5	0.5	493-1023-ND	.30	2.03	14.30	UVR1A331MED
	470	47.00	0.24	350	6.3	11.0	2.5	0.5	493-1024-ND	.39	2.65	18.70	UVR1A471MED
	1000	100.00	0.24	650	10.0	12.5	5.0	0.6	493-1025-ND	.45	3.33	23.75	UVR1A102MPD
	2200	220.00	0.26	1100	10.0	20.0	5.0	0.6	493-1026-ND	.58	4.29	31.49	UVR1A222MPD
	3300	330.00	0.28	1450	12.5	20.0	5.0	0.6	493-1027-ND	.89	6.59	48.41	UVR1A332MHD
	4700	470.00	0.30	1800	12.5	25.0	5.0	0.6	493-1028-ND	1.10	8.22	61.65	UVR1A472MHD
	6800	680.00	0.34	2250	16.0	25.0	7.5	0.8	493-1029-ND	1.65	12.39	92.93	UVR1A682MHD
	10000	1000.00	0.42	2700	16.0	35.5	7.5	0.8	493-1030-ND	1.91	14.34	107.55	UVR1A103MHD
	15000	1500.00	0.52	3100	18.0	35.5	7.5	0.8	493-1031-ND	1.99	14.91	111.83	UVR1A153MHD
	22000	2200.00	0.66	3700	20.0	40.0	10.0	1.0	493-1032-ND	2.71	20.48	154.60	UVR1A223MRD
	22000	2200.00	0.66	3300	25.0	30.0	12.5	1.0	493-1033-ND	2.71	20.48	154.60	UVR1A223MRD6
	33000	3300.00	0.88	4500	22.0	50.0	10.0	1.0	493-1034-ND	5.43	41.08	310.00	UVR1A333MRD
	33000	3300.00	0.88	4800	25.0	40.0	12.5	1.0	493-1035-ND	5.43	41.08	310.00	UVR1A333MRD6
16	10	3.00	0.20	50	5.0	11.0	2.0	0.5	493-1036-ND	.20	1.24	8.37	UVR1C100MDD
	22	3.52	0.20	75	5.0	11.0	2.0	0.5	493-1037-ND	.20	1.24	8.37	UVR1C220MDD
	33	5.28	0.20	90	5.0	11.0	2.0	0.5	493-1038-ND	.20	1.24	8.37	UVR1C330MDD
	47	7.52	0.20	110	5.0	11.0	2.0	0.5	493-1039-ND	.24	1.52	10.23	UVR1C470MDD
	100	16.00	0.20	160	5.0	11.0	2.0	0.5	493-1040-ND	.24	1.60	11.28	UVR1C101MDD
	220	35.20	0.20	260	6.3	11.0	2.5	0.5	493-1041-ND	.30	2.03	14.30	UVR1C221MED
	330	52.80	0.20	370	8.0	11.5	3.5	0.6	493-1042-ND	.39	2.65	18.70	UVR1C331MPD
	470	75.20	0.20	440	8.0	11.5	3.5	0.6	493-1043-ND	.36	2.63	18.75	UVR1C471MPD
	1000	160.00	0.20	790	10.0	16.0	5.0	0.6	493-1044-ND	.57	4.20	30.00	UVR1C102MPD
	2200	352.00	0.22	1300	12.5	20.0	5.0	0.6	493-1045-ND	.78	5.82	42.77	UVR1C222MHD
	3300	528.00	0.24	1700	12.5	25.0	5.0	0.6	493-1046-ND	1.20	8.97	67.28	UVR1C332MHD
	4700	752.00	0.26	2100	16.0	25.0	7.5	0.8	493-1047-ND	1.60	12.03	90.23	UVR1C472MHD
	6800	1088.00	0.30	2650	16.0	35.5	7.5	0.8	493-1048-ND	1.91	14.34	107.55	UVR1C682MHD
	10000	1600.00	0.38	2950	18.0	35.5	7.5	0.8	493-1049-ND	1.99	14.91	111.83	UVR1C103MHD
	10000	1600.00	0.38	3000	20.0	31.0	10.0	1.0	493-1050-ND	1.99	14.91	111.83	UVR1C103MRD6
	15000	2400.00	0.46	3400	20.0	40.0	10.0	1.0	493-1051-ND	2.79	21.12	159.40	UVR1C153MRD
	15000	2400.00	0.46	3300	25.0	30.0	12.5	1.0	493-1052-ND	2.79	21.12	159.40	UVR1C153MRD6
	22000	3520.00	0.58	4200	22.0	50.0	10.0	1.0	493-1053-ND	5.53	41.87	316.00	UVR1C223MRD
	22000	3520.00	0.58	4000	25.0	40.0	12.5	1.0	493-1054-ND	5.53	41.87	316.00	UVR1C223MRD6
	33000	5280.00	0.78	4800	25.0	50.0	12.5	1.0	493-1055-ND	6.17	46.72	352.60	UVR1C333MRD
25	4.7	3.00	0.16	35	5.0	11.0	2.0	0.5	493-1056-ND	.20	1.24	8.37	UVR1E4R7MDD
	10	3.00	0.16	55	5.0	11.0	2.0	0.5	493-1057-ND	.20	1.24	8.37	UVR1E100MDD
	22	5.50	0.16	80	5.0	11.0	2.0	0.5	493-1058-ND	.24	1.52	10.23	UVR1E220MDD
	33	8.25	0.16	95	5.0	11.0	2.0	0.5	493-1059-ND	.24	1.52	10.23	UVR1E330MDD
	47	11.75	0.16	115	5.0	11.0	2.0	0.5	493-1060-ND	.23	1.56	11.00	UVR1E470MDD
	100	25.00	0.16	190	6.3	11.0	2.5	0.5	493-1061-ND	.27	1.83	12.93	UVR1E101MED
	220	55.00	0.16	330	8.0	11.5	3.5	0.6	493-1062-ND	.39	2.65	18.70	UVR1E221MPD
	330	82.50	0.16	440	10.0	12.5	5.0	0.6	493-1063-ND	.41	3.05	21.75	UVR1E331MPD
	470	117.50	0.16	550	10.0	12.5	5.0	0.6	493-1064-ND	.41	3.01	21.50	UVR1E471MPD
	1000	250.00	0.16	960	10.0	20.0	5.0	0.6	493-1065-ND	.58	4.29	31.49	UVR1E102MPD

(Continued)

Rated W.V. (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ Max. @120Hz/20°C	Rated Ripple Cur. @120Hz/85°C (mA rms)	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
					ØD	L	P	ød		1	10	100	
25	2200	550.00	0.18	1550	12.5	25.0	5.0	0.6	493-1066-ND	1.20	8.97	67.28	UVR1E222MHD
	3300	825.00	0.20	1980	16.0	25.0	7.5	0.8	493-1067-ND	1.60	12.03	90.23	UVR1E332MHD
	4700	1175.00	0.22	2450	16.0	31.5	7.5	0.8	493-1068-ND	1.91	14.34	107.55	UVR1E472MHD
	6800	1700.00	0.26	2900	18.0	35.5	7.5	0.8	493-1069-ND	2.01	15.21	114.80	UVR1E682MHD
	6800	1700.00	0.26	2700	20.0	31.0	10.0	1.0	493-1070-ND	2.01	15.21	114.80	UVR1E682MRD6
	10000	2500.00	0.34	3000	20.0	40.0	10.0	1.0	493-1071-ND	2.94	22.23	167.80	UVR1E103MRD
	10000	2500.00	0.34	2900	25.0	30.0	12.5	1.0	493-1072-ND	2.94	22.23	167.80	UVR1E103MRD6
	15000	3750.00	0.42	3800	22.0	50.0	10.0	1.0	493-1073-ND	5.53	41.87	316.00	UVR1E153MRD
	15000	3750.00	0.42	3600	25.0	40.0	12.5	1.0	493-1074-ND	5.53	41.87	316.00	UVR1E153MRD6
	22000	5500.00	0.54	4500	25.0	50.0	12.5	1.0	493-1075-ND	6.17	46.72	352.60	UVR1E223MRD
35	4.7	3.00	0.14	40	5.0	11.0	2.0	0.5	493-1076-ND	.20	1.24	8.37	UVR1V4R7MDD
	10	3.50	0.14	60	5.0	11.0	2.0	0.5	493-1077-ND	.20	1.24	8.37	UVR1V100MDD
	22	7.70	0.14	90	5.0	11.0	2.0	0.5	493-1078-ND	.24	1.52	10.23	UVR1V220MDD
	33	11.55	0.14	105	5.0	11.0	2.0	0.5	493-1079-ND	.23	1.56	11.00	UVR1V330MDD
	47	16.45	0.14	130	5.0	11.0	2.0	0.5	493-1080-ND	.24	1.60	11.28	UVR1V470MDD
	100	35.00	0.14	210	6.3	11.0	2.5	0.5	493-1081-ND	.30	2.03	14.30	UVR1V101MED
	220	77.00	0.14	385	10.0	12.5	5.0	0.6	493-1082-ND	.41	3.05	21.75	UVR1V221MPD
	330	115.50	0.14	490	10.0	12.5	5.0	0.6	493-1083-ND	.47	3.47	24.75	UVR1V331MPD
	470	164.50	0.14	650	10.0	16.0	5.0	0.6	493-1084-ND	.57	4.24	30.25	UVR1V471MPD
	1000	350.00	0.14	1150	12.5	20.0	5.0	0.6	493-1085-ND	.92	6.88	50.53	UVR1V102MHD
	2200	770.00	0.16	1800	16.0	25.0	7.5	0.8	493-1086-ND	1.44	10.77	80.78	UVR1V222MHD
	3300	1155.00	0.18	2280	16.0	35.5	7.5	0.8	493-1087-ND	1.91	14.34	107.55	UVR1V332MHD
	4700	1645.00	0.20	2700	18.0	35.5	7.5	0.8	493-1088-ND	1.87	14.15	106.80	UVR1V472MHD
	4700	1645.00	0.20	2700	20.0	31.0	10.0	1.0	493-1089-ND	1.87	14.15	106.80	UVR1V472MRD6
	6800	2380.00	0.24	3000	20.0	40.0	10.0	1.0	493-1090-ND	2.79	21.12	159.40	UVR1V682MRD
	6800	2380.00	0.24	2900	25.0	30.0	12.5	1.0	493-1091-ND	2.79	21.12	159.40	UVR1V682MRD6
	10000	3500.00	0.32	3700	22.0	50.0	10.0	1.0	493-1092-ND	4.45	33.66	254.00	UVR1V103MRD
	10000	3500.00	0.32	3600	25.0	40.0	12.5	1.0	493-1093-ND	4.45	33.66	254.00	UVR1V103MRD6
	15000	5250.00	0.40	4300	25.0	50.0	12.5	1.0	493-1094-ND	6.17	46.72	352.60	UVR1V153MRD
50	0.1	3.00	0.12	1.3	5.0	11.0	2.0	0.5	493-1095-ND	.20	1.24	8.37	UVR1H0R1MDD
	0.22	3.00	0.12	2.9	5.0	11.0	2.0	0.5	493-1096-ND	.20	1.24	8.37	UVR1HR22MDD
	0.33	3.00	0.12	4.3	5.0	11.0	2.0	0.5	493-1097-ND	.20	1.24	8.37	UVR1HR33MDD
	0.47	3.00	0.12	6.2	5.0	11.0	2.0	0.5	493-1098-ND	.20	1.24	8.37	UVR1HR47MDD
	1	3.00	0.12	17	5.0	11.0	2.0	0.5	493-1099-ND	.20	1.24	8.37	UVR1H010MDD
	2.2	3.00	0.12	28	5.0	11.0	2.0	0.5	493-1100-ND	.20	1.24	8.37	UVR1H2R2MDD
	3.3	3.00	0.12	35	5.0	11.0	2.0	0.5	493-1101-ND	.20	1.24	8.37	UVR1H3R3MDD
	4.7	3.00	0.12	40	5.0	11.0	2.0	0.5	493-1102-ND	.20	1.24	8.37	UVR1H4R7MDD
	10	5.00	0.12	60	5.0	11.0	2.0	0.5	493-1103-ND	.24	1.52	10.23	UVR1H100MDD
	22	11.00	0.12	95	5.0	11.0	2.0	0.5	493-1104-ND	.23	1.56	11.00	UVR1H220MDD
	33	16.50	0.12	125	5.0	11.0	2.0	0.5	493-1105-ND	.25	1.68	11.83	UVR1H330MDD
	47	23.50	0.12	155	6.3	11.0	2.5	0.5	493-1106-ND	.27	1.83	12.93	UVR1H470MED
	100	50.00	0.12	260	8.0	11.5	3.5	0.6	493-1107-ND	.35	2.56	18.25	UVR1H101MPD
	220	110.00	0.12	430	10.0	12.5	5.0	0.6	493-1108-ND	.51	3.75	26.75	UVR1H221MPD
	330	165.00	0.12	590	10.0	16.0	5.0	0.6	493-1109-ND	.56	4.19	30.79	UVR1H331MPD
	470	235.00	0.12	760	12.5	20.0	5.0	0.6	493-1110-ND	.67	4.99	36.66	UVR1H471MHD
	1000	500.00	0.12	1350	12.5	25.0	5.0	0.6	493-1111-ND	1.07	7.94	58.28	UVR1H102MHD
	2200	1100.00	0.14	2100	16.0	35.5	7.5	0.8	493-1112-ND	1.91	14.34	107.55	UVR1H222MHD
	3300	1650.00	0.16	2500	18.0	35.5	7.5	0.8	493-1113-ND	2.01	15.21	114.80	UVR1H332MHD
	3300	1650.00	0.16	2450	22.0	30.0	10.0	1.0	493-1114-ND	2.01	15.21	114.80	UVR1H332MRD6
	4700	2350.00	0.18	2900	20.0	40.0	10.0	1.0	493-1115-ND	3.49	26.45	199.60	UVR1H472MRD
	4700	2350.00	0.18	2900	25.0	30.0	12.5	1.0	493-1116-ND	3.49	26.45	199.60	UVR1H472MRD6
	6800	3400.00	0.22	3500	22.0	50.0	10.0	1.0	493-1117-ND	4.45	33.66	254.00	UVR1H682MRD
	6800	3400.00	0.22	3300	25.0	40.0	12.5	1.0	493-1118-ND	4.45	33.66	254.00	UVR1H682MRD6
	10000	5000.00	0.30	4000	25.0	50.0	12.5	1.0	493-1119-ND	6.17	46.72	352.60	UVR1H103MRD
63	10	6.30	0.10	65	5.0	11.0	2.0	0.5	493-1120-ND	.24	1.52	10.23	UVR1J100MDD
	22	13.86	0.10	100	5.0	11.0	2.0	0.5	493-1121-ND	.25	1.68	11.83	UVR1J220MDD
	33	20.79	0.10	140	6.3	11.0	2.5	0.5	493-1122-ND	.27	1.83	12.93	UVR1J330MED
	47	29.61	0.10	170	6.3	11.0	2.5	0.5	493-1123-ND	.30	2.03	14.30	UVR1J470MED
	100	63.00	0.10	300	10.0	12.5	5.0	0.6	493-1124-ND	.43	3.15	22.50	UVR1J101MPD
	220	138.60	0.10	490	10.0	16.0	5.0	0.6	493-1125-ND	.56	4.19	30.79	UVR1J221MPD
	330	207.90	0.10	710	10.0	20.0	5.0	0.6	493-1126-ND	.64	4.77	35.02	UVR1J331MPD
	470	296.10	0.10	900	12.5	20.0	5.0	0.6	493-1127-ND	.89	6.59	48.41	UVR1J471MHD
	1000	630.00	0.10	1300	16.0	25.0	7.5	0.8	493-1129-ND	1.41	10.56	79.20	UVR1J102MHD
	2200	1386.00	0.12	2300	18.0	35.5	7.5	0.8	493-1130-ND	1.88	14.23	107.40	UVR1J222MHD
	3300	2079.00	0.14	2700	20.0	40.0	10.0	1.0	493-1131-ND	3.45	26.13	197.20	UVR1J332MRD
	3300	2079.00	0.14	2600	25.0	30.0	12.5	1.0	493-1132-ND	3.45	26.13	197.20	UVR1J332MRD6
	4700	2961.00	0.16	3400	22.0	50.0	10.0	1.0	493-1133-ND	4.40	33.34	251.60	UVR1J472MRD
	4700	2961.00	0.16	3200	25.0	40.0	12.5	1.0	493-1134-ND	4.40	33.34	251.60	UVR1J472MRD6
	6800	4284.00	0.20	3900	25.0	50.0	12.5	1.0	493-1135-ND	5.95	45.08	340.20	UVR1J682MRD
100	0.1	3.00	0.08	2.1	5.0	11.0	2.0	0.5	493-1136-ND	.20	1.24	8.37	UVR2A0R1MDD
	0.22	3.00	0.08	4.7	5.0	11.0	2.0	0.5	493-1137-ND	.20	1.24	8.37	UVR2AR22MDD
	0.33	3.00	0.08	7	5.0	11.0	2.0	0.5	493-1138-ND	.20	1.24	8.37	UVR2AR33MDD
	0.47	3.00	0.08	10	5.0	11.0	2.0	0.5	493-1139-ND	.20	1.24	8.37	UVR2AR47MDD
	1	3.00	0.08	21	5.0	11.0	2.0	0.5	493-1140-ND	.20	1.24	8.37	UVR2A010MDD
	2.2	3.00	0.08	30	5.0	11.0	2.0	0.5	493-1141-ND	.20	1.24	8.37	UVR2A2R2MDD
	3.3	3.30	0.08	40	5.0	11.0	2.0	0.5	493-1142-ND	.24	1.52	10.23	UVR2A3R3MDD
	4.7	4.70	0.08	45	5.0	11.0	2.0	0.5	493-1143-ND	.24	1.52	10.23	UVR2A4R7MDD
	10	10.00	0.08	75	6.3	11.0	2.5	0.5	493-1144-ND	.25	1.68	11.83	UVR2A100MED
	22	22.00	0.08	130	6.3	11.0	2.5	0.5	493-1145-ND	.30	2.03	14.30	UVR2A220MED
	33	33.00	0.08	180	8.0	11.5	3.5	0.6	493-1146-ND	.39	2.65	18.70	UVR2A330MPD
	47	47.00	0.08	230	10.0	12.5	5.0	0.6	493-1147-ND	.37	2.70	19.25	UVR2A470MPD
	100	100.00	0.08	370	10.0	20.0	5.0	0.6	493-1148-ND	.59	4.34	31.00	UVR2A101MPD
	220	220.00	0.08	620	12.5	25.0	5.0	0.6	493-1149-ND	.96	7.14	52.41	UVR2A221MHD
	330	330.00	0.08	760	12.5	25.0	5.0	0.6	493-1150-ND	1.07	7.94	58.28	UVR2A331MHD
	470	470.00	0.08	1000	16.0	25.0	7.5	0.8	493-1151-ND	1.41	10.56	79.20	UVR2A471MHD
	1000	1000.00	0.08	1380	18.0	40.0	7.5	0.8	493-1152-ND	1.91	14.34	107.55	UVR2A102MHD
	2200	2200.00	0.10	2400	22.0	50.0	10.0	1.0	493-1153-ND	4.63	35.06	264.60	UVR2A222MRD
	2200	2200.00	0.10	2400	25.0	40.0	12.5	1.0	493-1154-ND	4.63	35.06	264.60	UVR2A222MRD6
	3300	3300.00	0.12	2900	25.0	50.0	12.5	1.0	493-1155-ND	4.83	36.54	275.80	UVR2A332MRD

(Continued)

Rated W.V. (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ Max. @120Hz/20°C	Rated Ripple Cur. @120Hz/85°C (mA rms)	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
					ØD	L	P	ød		1	10	100	
160	0.47	47.52	0.20	15	6.3	11.0	2.5	0.5	493-1156-ND	.25	1.61	10.85	UVR2CR47MED
	1	56	0.20	22	6.3	11.0	2.5	0.5	493-1157-ND	.25	1.61	10.85	UVR2C010MED
	2.2	75.2	0.20	33	6.3	11.0	2.5	0.5	493-1158-ND	.25	1.72	12.10	UVR2C2R2MED
	3.3	92.8	0.20	40	6.3	11.0	2.5	0.5	493-1159-ND	.32	2.18	15.40	UVR2C3R3MED
	4.7	115.2	0.20	50	6.3	11.0	2.5	0.5	493-1160-ND	.24	1.64	11.55	UVR2C4R7MED
	10	200	0.20	80	8.0	11.5	3.5	0.6	493-1161-ND	.33	2.26	15.95	UVR2C100MPD
	22	392	0.20	155	10.0	16.0	5.0	0.6	493-1162-ND	.38	2.84	20.25	UVR2C220MPD
	33	568	0.20	205	10.0	20.0	5.0	0.6	493-1163-ND	.59	4.34	31.00	UVR2C330MPD
	47	792	0.20	270	12.5	20.0	5.0	0.6	493-1164-ND	.66	4.93	36.19	UVR2C470MHD
	100	1640	0.20	430	12.5	25.0	5.0	0.6	493-1165-ND	1.03	7.68	56.40	UVR2C101MHD
	220	3560	0.20	800	16.0	35.5	7.5	0.8	493-1166-ND	1.64	12.33	92.48	UVR2C221MHD
	330	5320	0.20	940	18.0	40.0	7.5	0.8	493-1167-ND	1.84	13.97	105.40	UVR2C331MHD
	330	5320	0.20	900	22.0	30.0	10.0	1.0	493-1168-ND	1.84	13.97	105.40	UVR2C331MRD6
	470	7560	0.20	1410	22.0	40.0	10.0	1.0	493-1169-ND	3.17	24.01	181.20	UVR2C471MRD
	470	7560	0.20	1290	25.0	30.0	12.5	1.0	493-1170-ND	3.17	24.01	181.20	UVR2C471MRD6
	1000	16040	0.20	1900	25.0	50.0	12.5	1.0	493-1171-ND	4.09	30.98	233.80	UVR2C102MRD
200	0.47	49.4	0.20	15	6.3	11.0	2.5	0.5	493-1172-ND	.24	1.60	11.28	UVR2DR47MED
	1	60	0.20	22	6.3	11.0	2.5	0.5	493-1173-ND	.24	1.60	11.28	UVR2D010MED
	2.2	84	0.20	33	6.3	11.0	2.5	0.5	493-1174-ND	.27	1.83	12.93	UVR2D2R2MED
	3.3	106	0.20	40	6.3	11.0	2.5	0.5	493-1175-ND	.32	2.18	15.40	UVR2D3R3MED
	4.7	134	0.20	55	8.0	11.5	3.5	0.6	493-1176-ND	.33	2.45	17.50	UVR2D4R7MPD
	10	240	0.20	95	10.0	12.5	5.0	0.6	493-1177-ND	.42	3.08	22.00	UVR2D100MPD
	22	480	0.20	170	10.0	20.0	5.0	0.6	493-1178-ND	.61	4.48	32.00	UVR2D220MPD
	33	700	0.20	230	12.5	20.0	5.0	0.6	493-1179-ND	.66	4.93	36.19	UVR2D330MHD
	47	980	0.20	270	12.5	20.0	5.0	0.6	493-1180-ND	.66	4.93	36.19	UVR2D470MHD
	100	2040	0.20	530	16.0	31.5	7.5	0.8	493-1181-ND	1.60	12.00	90.00	UVR2D101MHD
	220	4440	0.20	810	18.0	35.5	7.5	0.8	493-1182-ND	1.96	14.67	110.03	UVR2D221MHD
	330	6640	0.20	1130	20.0	40.0	10.0	1.0	493-1183-ND	3.34	25.28	190.80	UVR2D331MRD
	330	6640	0.20	1090	25.0	30.0	12.5	1.0	493-1184-ND	3.34	25.28	190.80	UVR2D331MRD6
	470	9440	0.20	1490	22.0	50.0	10.0	1.0	493-1185-ND	4.09	30.95	233.60	UVR2D471MRD
	470	9440	0.20	1550	25.0	40.0	12.5	1.0	493-1186-ND	4.09	30.95	233.60	UVR2D471MRD6
250	0.47	51.75	0.20	15	6.3	11.0	2.5	0.5	493-1187-ND	.24	1.64	11.55	UVR2ER47MED
	1	65	0.20	22	6.3	11.0	2.5	0.5	493-1188-ND	.24	1.64	11.55	UVR2E010MED
	2.2	95	0.20	33	6.3	11.0	2.5	0.5	493-1189-ND	.28	1.79	12.09	UVR2E2R2MED
	3.3	122.5	0.20	46	8.0	11.5	3.5	0.6	493-1190-ND	.32	2.18	15.40	UVR2E3R3MPD
	4.7	157.5	0.20	55	8.0	11.5	3.5	0.6	493-1191-ND	.34	2.49	17.75	UVR2E4R7MPD
	10	290	0.20	105	10.0	16.0	5.0	0.6	493-1192-ND	.40	2.94	21.00	UVR2E100MPD
	22	590	0.20	190	12.5	20.0	5.0	0.6	493-1193-ND	.61	4.52	32.25	UVR2E220MHD
	33	865	0.20	230	12.5	20.0	5.0	0.6	493-1194-ND	.66	4.93	36.19	UVR2E330MHD
	47	1215	0.20	300	12.5	25.0	5.0	0.6	493-1195-ND	1.03	7.68	56.40	UVR2E470MHD
	100	2540	0.20	520	16.0	31.5	7.5	0.8	493-1196-ND	1.80	13.50	101.25	UVR2E101MHD
	220	5540	0.20	740	20.0	40.0	10.0	1.0	493-1197-ND	3.71	28.09	212.00	UVR2E221MRD
	220	5540	0.20	820	22.0	30.0	10.0	1.0	493-1198-ND	3.71	28.09	212.00	UVR2E221MRD6
	330	8290	0.20	1170	22.0	50.0	10.0	1.0	493-1199-ND	3.97	30.05	226.80	UVR2E331MRD
	330	8290	0.20	970	25.0	30.0	12.5	1.0	493-1200-ND	3.97	30.05	226.80	UVR2E331MRD6
	470	11790	0.20	1600	25.0	50.0	12.5	1.0	493-1201-ND	5.05	38.27	288.80	UVR2E471MRD
315	1	71.5	0.20	22	6.3	11.0	2.5	0.5	493-1202-ND	.26	1.79	12.65	UVR2F010MED
	2.2	109.3	0.20	33	8.0	11.5	3.5	0.6	493-1203-ND	.36	2.42	17.05	UVR2F2R2MPD
	3.3	143.95	0.20	55	10.0	12.5	5.0	0.6	493-1204-ND	.39	2.87	20.50	UVR2F3R3MPD
	4.7	188.05	0.20	65	10.0	12.5	5.0	0.6	493-1205-ND	.44	3.22	23.00	UVR2F4R7MPD
	10	355	0.20	115	10.0	20.0	5.0	0.6	493-1206-ND	.57	4.20	30.00	UVR2F100MPD
	22	733	0.20	190	12.5	20.0	5.0	0.6	493-1207-ND	.66	4.93	36.19	UVR2F220MPD
	33	1079.5	0.20	275	16.0	25.0	7.5	0.8	493-1208-ND	1.11	8.34	62.55	UVR2F330MHD
	47	1520.5	0.20	340	16.0	25.0	7.5	0.8	493-1209-ND	1.42	10.62	79.65	UVR2F470MHD
	100	3190	0.20	560	18.0	35.5	7.5	0.8	493-1210-ND	1.81	13.56	101.70	UVR2F101MHD
	220	6970	0.20	850	22.0	50.0	10.0	1.0	493-1211-ND	5.02	38.00	286.80	UVR2F221MRD
	220	6970	0.20	770	25.0	30.0	12.5	1.0	493-1212-ND	5.02	38.00	286.80	UVR2F221MRD6
	330	10435	0.20	1250	25.0	50.0	12.5	1.0	493-1213-ND	5.73	43.38	327.40	UVR2F331MRD
350	1	75	0.25	22	6.3	11.0	2.5	0.5	493-1214-ND	.27	1.83	12.93	UVR2V010MED
	2.2	117	0.25	38	8.0	11.5	3.5	0.6	493-1215-ND	.35	2.34	16.50	UVR2V2R2MPD
	3.3	155.5	0.25	55	10.0	12.5	5.0	0.6	493-1216-ND	.40	2.94	21.00	UVR2V3R3MPD
	4.7	204.5	0.25	65	10.0	12.5	5.0	0.6	493-1217-ND	.40	2.94	21.00	UVR2V4R7MPD
	10	390	0.25	115	10.0	20.0	5.0	0.6	493-1218-ND	.57	4.24	30.25	UVR2V100MPD
	22	810	0.25	200	12.5	25.0	5.0	0.6	493-1219-ND	.64	4.77	35.02	UVR2V220MHD
	33	1195	0.25	275	16.0	25.0	7.5	0.8	493-1220-ND	1.08	8.07	60.53	UVR2V330MHD
	47	1685	0.25	380	16.0	35.5	7.5	0.8	493-1221-ND	1.75	13.14	98.55	UVR2V470MHD
	100	3540	0.25	590	18.0	40.0	7.5	0.8	493-1222-ND	1.79	13.52	102.00	UVR2V101MHD
	100	3540	0.25	570	22.0	30.0	10.0	1.0	493-1223-ND	1.79	13.52	102.00	UVR2V101MRD6
	220	7740	0.25	850	22.0	50.0	10.0	1.0	493-1224-ND	5.73	43.38	327.40	UVR2V221MRD
	220	7740	0.25	890	25.0	40.0	12.5	1.0	493-1225-ND	5.73	43.38	327.40	UVR2V221MRD6
400	1	80	0.25	25	8.0	11.5	3.5	0.6	493-1226-ND	.31	2.11	14.85	UVR2G010MPD
	2.2	128	0.25	45	10.0	12.5	5.0	0.6	493-1227-ND	.38	2.77	19.75	UVR2G2R2MPD
	3.3	172	0.25	55	10.0	12.5	5.0	0.6	493-1228-ND	.40	2.94	21.00	UVR2G3R3MPD
	4.7	228	0.25	70	10.0	16.0	5.0	0.6	493-1229-ND	.47	3.43	24.50	UVR2G4R7MPD
	10	440	0.25	130	12.5	20.0	5.0	0.6	493-1230-ND	.58	4.35	31.96	UVR2G100MHD
	22	920	0.25	240	16.0	25.0	7.5	0.8	493-1231-ND	1.08	8.07	60.53	UVR2G220MHD
	33	1360	0.25	300	16.0	31.5	7.5	0.8	493-1232-ND	1.44	10.80	81.00	UVR2G330MHD
	47	1920	0.25	370	16.0	35.5	7.5	0.8	493-1233-ND	1.90	14.25	106.88	UVR2G470MHD
	100	4040	0.25	550	20.0	40.0	10.0	1.0	493-1234-ND	3.77	28.54	215.40	UVR2G101MRD
	100	4040	0.25	530	25.0	30.0	12.5	1.0	493-1235-ND	3.77	28.54	215.40	UVR2G101MRD6
	220	8840	0.25	750	25.0	50.0	12.5	1.0	493-1236-ND	6.24	47.28	356.80	UVR2G221MRD
450	1	85	0.25	23	8.0	11.5	3.5	0.6	493-1237-ND	.31	2.11	14.85	UVR2W010MPD
	2.2	139	0.25	35	10.0	12.5	5.0	0.6	493-1238-ND	.40	2.94	21.00	UVR2W2R2MPD
	3.3	188.5	0.25	45	10.0	16.0	5.0	0.6	493-1239-ND	.40	2.94	21.00	UVR2W3R3MPD
	4.7	251.5	0.25	55	10.0	20.0	5.0	0.6	493-1240-ND	.57	4.24	30.25	UVR2W4R7MPD
	10	490	0.25	90	12.5	20.0	5.0	0.6	493-1241-ND	.64	4.77	35.02	UVR2W100MHD
	22	1030	0.25	165	16.0	25.0	7.5	0.8	493-1242-ND	1.08	8.07	60.53	UVR2W220MHD
	33	1525	0.25	230	16.0	35.5	7.5	0.8	493-1243-ND	1.90	14.25	106.88	UVR2W330MHD
	47	2155	0.25	300	18.0	40.0	7.5	0.8	493-1244-ND	2.02	15.26	115.20	UVR2W470MHD
	47	2155	0.25	290	22.0	30.0	10.0	1.0	493-1245-ND	2.02	15.26	115.20	UVR2W470MRD6
	100	4540	0.25	350	22.0	40.0	10.0	1.0	493-1246-ND	4.50	34.11	257.40	UVR2W101MRD

nichicon VZ Series Aluminum Electrolytic Capacitors (Radial Lead)

RoHS COMPLIANT

General Purpose 105°C

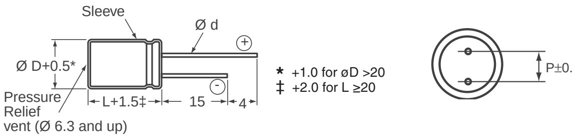

FEATURES: • Radial lead standard type for general purpose • Small case size • Wide temperature range • Life: 1000 hours at 105°C

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C (6.3 ~ 100V), -40°C ~ 105°C (160 ~ 400V), -25°C ~ 105°C (450V)
Capacitance Tolerance	±20% at 120Hz, 20°C

• Leakage Current:

Rated Voltage: 6.3 to 100	Rated Voltage: 160 to 450
After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.	After 1 minute application of rated voltage, CV ≤ 1000: I=0.1CV+40 (µA) or less.
After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.	After 1 minutes application of rated voltage, CV > 1000: I=0.04CV +100 (µA) or less.

• tan δ:
For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency: 120Hz, Temperature: 20°C.

Rated Volt. (V)	6.3	10	16	25	35	50	63	100	160 to 315	350 to 450
tan δ (Max.)	0.28	0.24	0.20	0.16	0.14	0.12	0.10	0.08	0.20	0.25

• Stability at Low Temperature: Measurement frequency: 120Hz

Rated Voltage (V)		6.3	10	16	25	35	50	63	100	160 - 200	250 - 350	400	450
Impedance ratio	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	3	4	6	15
ZT/Z20 (Max.)	Z-40°C/Z+20°C	10	8	6	4	3	3	3	3	4	8	10	—

• Endurance:
After 1000 hours application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±20% of initial value
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

• Shelf Life: After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.

• Marking: Printed with white color letter on black sleeve.

Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @120Hz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
					ØD	L	P	ød		1	10	100	
6.3	22	3.00	0.28	45	5.0	11.0	2.0	0.5	493-1247-ND	.26	1.66	11.16	UVZ0J220MDD
	33	3.00	0.28	55	5.0	11.0	2.0	0.5	493-1248-ND	.26	1.66	11.16	UVZ0J330MDD
	47	3.00	0.28	65	5.0	11.0	2.0	0.5	493-1249-ND	.26	1.66	11.16	UVZ0J470MDD
	100	6.30	0.28	95	5.0	11.0	2.0	0.5	493-1250-ND	.25	1.72	12.10	UVZ0J101MDD
	220	13.86	0.28	145	5.0	11.0	2.0	0.5	493-1251-ND	.30	2.07	14.58	UVZ0J221MDD
	330	20.79	0.28	195	6.3	11.0	2.5	0.5	493-1252-ND	.35	2.34	16.50	UVZ0J331MED
	470	29.61	0.28	230	6.3	11.0	2.5	0.5	493-1253-ND	.36	2.46	17.33	UVZ0J471MED
	1000	63.00	0.28	390	8.0	11.5	3.5	0.6	493-1254-ND	.25	1.72	12.10	UVZ0J102MPD
	2200	138.60	0.30	710	10.0	20.0	5.0	0.6	493-1255-ND	.65	4.80	35.25	UVZ0J222MPD
	3300	207.90	0.32	840	10.0	20.0	5.0	0.6	493-1256-ND	.72	5.38	39.48	UVZ0J332MPD
	4700	296.10	0.34	1090	12.5	20.0	5.0	0.6	493-1257-ND	1.06	7.98	59.85	UVZ0J472MHD
	6800	428.40	0.38	1350	12.5	25.0	5.0	0.6	493-1258-ND	1.49	11.19	83.93	UVZ0J682MHD
	10000	630.00	0.46	1650	16.0	25.0	7.5	0.8	493-1259-ND	1.96	14.67	110.03	UVZ0J103MHD
	15000	945.00	0.56	2010	16.0	35.5	7.5	0.8	493-1260-ND	2.25	17.04	128.60	UVZ0J153MHD
	22000	1386.00	0.70	2350	18.0	40.0	7.5	0.8	493-1261-ND	2.65	20.06	151.40	UVZ0J223MHD
	33000	2079.00	0.92	2800	22.0	50.0	10.0	1.0	493-1262-ND	4.90	37.13	280.20	UVZ0J333MRD
10	22	3.00	0.24	45	5.0	11.0	2.0	0.5	493-1263-ND	.26	1.66	11.16	UVZ1A220MDD
	33	3.30	0.24	58	5.0	11.0	2.0	0.5	493-1264-ND	.26	1.66	11.16	UVZ1A330MDD
	47	4.70	0.24	68	5.0	11.0	2.0	0.5	493-1265-ND	.26	1.66	11.16	UVZ1A470MDD
	100	10.00	0.24	105	5.0	11.0	2.0	0.5	493-1266-ND	.25	1.72	12.10	UVZ1A101MDD
	220	22.00	0.24	175	6.3	11.0	2.5	0.5	493-1267-ND	.35	2.34	16.50	UVZ1A221MED
	330	33.00	0.24	210	6.3	11.0	2.5	0.5	493-1268-ND	.37	2.50	17.60	UVZ1A331MED
	470	47.00	0.24	250	6.3	11.0	2.5	0.5	493-1269-ND	.40	2.98	21.25	UVZ1A471MED
	1000	100.00	0.24	460	10.0	12.5	5.0	0.6	493-1270-ND	.57	4.20	30.00	UVZ1A102MPD
	2200	220.00	0.26	760	10.0	20.0	5.0	0.6	493-1271-ND	.72	5.38	39.48	UVZ1A222MPD
	3300	330.00	0.28	1000	12.5	20.0	5.0	0.6	493-1272-ND	1.06	7.87	57.81	UVZ1A332MHD
	4700	470.00	0.30	1260	12.5	25.0	5.0	0.6	493-1273-ND	1.30	9.78	73.35	UVZ1A472MHD
	6800	680.00	0.34	1570	16.0	25.0	7.5	0.8	493-1274-ND	1.97	14.76	110.70	UVZ1A682MHD
	10000	1000.00	0.42	1890	16.0	35.5	7.5	0.8	493-1275-ND	2.25	17.04	128.60	UVZ1A103MHD
	15000	1500.00	0.52	2180	18.0	35.5	7.5	0.8	493-1276-ND	2.39	18.13	136.80	UVZ1A153MHD
	22000	2200.00	0.66	2650	20.0	40.0	10.0	1.0	493-1277-ND	3.44	26.02	196.40	UVZ1A223MHD
	33000	3300.00	0.88	3250	22.0	50.0	10.0	1.0	493-1278-ND	5.44	41.21	311.00	UVZ1A333MRD
16	10	3.00	0.20	35	5.0	11.0	2.0	0.5	493-1279-ND	.26	1.66	11.16	UVZ1C100MDD
	22	3.52	0.20	54	5.0	11.0	2.0	0.5	493-1280-ND	.26	1.66	11.16	UVZ1C220MDD
	33	5.28	0.20	65	5.0	11.0	2.0	0.5	493-1281-ND	.26	1.66	11.16	UVZ1C330MDD
	47	7.52	0.20	79	5.0	11.0	2.0	0.5	493-1282-ND	.25	1.72	12.10	UVZ1C470MDD
	100	16.00	0.20	115	5.0	11.0	2.0	0.5	493-1283-ND	.30	2.07	14.58	UVZ1C101MDD
	220	35.20	0.20	190	6.3	11.0	2.5	0.5	493-1284-ND	.37	2.54	17.88	UVZ1C221MED
	330	52.80	0.20	265	8.0	11.5	3.5	0.6	493-1285-ND	.40	2.98	21.25	UVZ1C331MPD
	470	75.20	0.20	315	8.0	11.5	3.5	0.6	493-1286-ND	.44	3.26	23.25	UVZ1C471MPD
	1000	160.00	0.20	560	10.0	16.0	5.0	0.6	493-1287-ND	.65	4.80	35.25	UVZ1C102MPD
	2200	352.00	0.22	920	12.5	20.0	5.0	0.6	493-1288-ND	1.02	7.68	57.60	UVZ1C222MHD
	3300	528.00	0.24	1170	12.5	25.0	5.0	0.6	493-1289-ND	1.42	10.68	80.10	UVZ1C332MHD
	4700	752.00	0.26	1480	16.0	25.0	7.5	0.8	493-1290-ND	1.92	14.37	107.78	UVZ1C472MHD
	6800	1088.00	0.30	1780	16.0	35.5	7.5	0.8	493-1291-ND	2.25	17.04	128.60	UVZ1C682MHD
	10000	1600.00	0.38	2060	18.0	35.5	7.5	0.8	493-1292-ND	2.39	18.13	136.80	UVZ1C103MHD
	15000	2400.00	0.48	2430	20.0	40.0	10.0	1.0	493-1293-ND	3.44	26.02	196.40	UVZ1C153MRD
	22000	3520.00	0.62	3000	22.0	50.0	10.0	1.0	493-1294-ND	5.44	41.21	311.00	UVZ1C223MRD
	33000	5280.00	0.84	3450	25.0	50.0	12.5	1.0	493-1295-ND	7.56	57.21	431.80	UVZ1C333MRD
25	4.7	3.00	0.16	25	5.0	11.0	2.0	0.5	493-1296-ND	.26	1.66	11.16	UVZ1E4R7MDD
	10	3.00	0.16	36	5.0	11.0	2.0	0.5	493-1297-ND	.22	1.38	9.30	UVZ1E100MDD
	22	5.50	0.16	58	5.0	11.0	2.0	0.5	493-1298-ND	.22	1.38	9.30	UVZ1E220MDD
	33	8.25	0.16	68	5.0	11.0	2.0	0.5	493-1299-ND	.25	1.72	12.10	UVZ1E330MDD
	47	11.75	0.16	83	5.0	11.0	2.0	0.5	493-1300-ND	.22	1.38	9.30	UVZ1E470MDD
	100	25.00	0.16	140	6.3	11.0	2.5	0.5	493-1301-ND	.28	1.75	11.78	UVZ1E101MED

(Continued)

Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @120Hz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
					ØD	L	P	ød		1	10	100	
25	220	55.00	0.16	240	8.0	11.5	3.5	0.6	493-1302-ND	.40	2.98	21.25	UVZ1E221MPD
	330	82.50	0.16	315	10.0	12.5	5.0	0.6	493-1303-ND	.38	2.80	20.00	UVZ1E331MPD
	470	117.50	0.16	380	10.0	12.5	5.0	0.6	493-1304-ND	.34	2.52	18.00	UVZ1E471MPD
	1000	250.00	0.16	680	10.0	20.0	5.0	0.6	493-1305-ND	.64	4.77	35.02	UVZ1E102MPD
	2200	550.00	0.18	1090	12.5	25.0	5.0	0.6	493-1306-ND	1.42	10.68	80.10	UVZ1E222MHD
	3300	825.00	0.20	1400	16.0	25.0	7.5	0.8	493-1307-ND	1.16	8.70	65.25	UVZ1E332MHD
	4700	1175.00	0.22	1710	16.0	31.5	7.5	0.8	493-1308-ND	1.36	10.20	76.50	UVZ1E472MHD
	6800	1700.00	0.26	2040	18.0	35.5	7.5	0.8	493-1309-ND	2.65	20.09	151.60	UVZ1E682MHD
	10000	2500.00	0.34	2150	20.0	40.0	10.0	1.0	493-1310-ND	4.30	32.57	245.80	UVZ1E103MRD
	15000	3750.00	0.44	2750	22.0	50.0	10.0	1.0	493-1311-ND	5.44	41.21	311.00	UVZ1E153MRD
	22000	5500.00	0.58	3250	25.0	50.0	12.5	1.0	493-1312-ND	7.56	57.21	431.80	UVZ1E223MRD
35	4.7	3.00	0.14	28	5.0	11.0	2.0	0.5	493-1313-ND	.26	1.66	11.16	UVZ1V4R7MDD
	10	3.50	0.14	41	5.0	11.0	2.0	0.5	493-1314-ND	.22	1.38	9.30	UVZ1V100MDD
	22	7.70	0.14	61	5.0	11.0	2.0	0.5	493-1315-ND	.22	1.38	9.30	UVZ1V220MDD
	33	11.55	0.14	75	5.0	11.0	2.0	0.5	493-1316-ND	.30	2.03	14.30	UVZ1V330MDD
	47	16.45	0.14	93	5.0	11.0	2.0	0.5	493-1317-ND	.22	1.38	9.30	UVZ1V470MDD
	100	35.00	0.14	150	6.3	11.0	2.5	0.5	493-1318-ND	.37	2.54	17.88	UVZ1V101MED
	220	77.00	0.14	275	10.0	12.5	5.0	0.6	493-1319-ND	.52	3.82	27.25	UVZ1V221MPD
	330	115.50	0.14	350	10.0	12.5	5.0	0.6	493-1320-ND	.45	3.29	23.50	UVZ1V331MPD
	470	164.50	0.14	460	10.0	16.0	5.0	0.6	493-1321-ND	.65	4.86	35.72	UVZ1V471MPD
	1000	350.00	0.14	810	12.5	20.0	5.0	0.6	493-1322-ND	1.02	7.68	57.60	UVZ1V102MHD
	2200	770.00	0.16	1260	16.0	25.0	7.5	0.8	493-1323-ND	1.71	12.84	96.30	UVZ1V222MHD
	3300	1155.00	0.18	1610	16.0	35.5	7.5	0.8	493-1324-ND	2.25	17.04	128.60	UVZ1V332MHD
	4700	1645.00	0.20	1910	18.0	35.5	7.5	0.8	493-1325-ND	2.40	18.18	137.20	UVZ1V472MHD
	6800	2380.00	0.24	2150	20.0	40.0	10.0	1.0	493-1326-ND	3.44	26.02	196.40	UVZ1V682MRD
	10000	3500.00	0.32	2650	22.0	50.0	10.0	1.0	493-1327-ND	5.44	41.21	311.00	UVZ1V103MRD
	15000	4200.00	0.36	3100	25.0	50.0	12.5	1.0	493-1328-ND	7.95	60.18	454.20	UVZ1V153MRD
50	0.1	3.00	0.12	1.3	5.0	11.0	2.0	0.5	493-1329-ND	.26	1.66	11.16	UVZ1H0R1MDD
	0.22	3.00	0.12	2.9	5.0	11.0	2.0	0.5	493-1330-ND	.26	1.66	11.16	UVZ1HR22MDD
	0.33	3.00	0.12	4.3	5.0	11.0	2.0	0.5	493-1331-ND	.26	1.66	11.16	UVZ1HR33MDD
	0.47	3.00	0.12	7	5.0	11.0	2.0	0.5	493-1332-ND	.26	1.66	11.16	UVZ1HR47MDD
	1	3.00	0.12	13	5.0	11.0	2.0	0.5	493-1333-ND	.22	1.38	9.30	UVZ1H010MDD
	2.2	3.00	0.12	20	5.0	11.0	2.0	0.5	493-1334-ND	.22	1.38	9.30	UVZ1H2R2MDD
	3.3	3.00	0.12	25	5.0	11.0	2.0	0.5	493-1335-ND	.26	1.66	11.16	UVZ1H3R3MDD
	4.7	3.00	0.12	30	5.0	11.0	2.0	0.5	493-1336-ND	.22	1.38	9.30	UVZ1H4R7MDD
	10	5.00	0.12	46	5.0	11.0	2.0	0.5	493-1337-ND	.25	1.72	12.10	UVZ1H100MDD
	22	11.00	0.12	68	5.0	11.0	2.0	0.5	493-1338-ND	.30	2.03	14.30	UVZ1H220MDD
	33	16.50	0.12	90	5.0	11.0	2.0	0.5	493-1339-ND	.33	2.22	15.68	UVZ1H330MDD
	47	23.50	0.12	115	6.3	11.0	2.5	0.5	493-1340-ND	.21	1.33	8.99	UVZ1H470MED
	100	50.00	0.12	190	8.0	11.5	3.5	0.6	493-1341-ND	.43	3.19	22.75	UVZ1H101MPD
	220	110.00	0.12	300	10.0	12.5	5.0	0.6	493-1342-ND	.58	4.29	31.49	UVZ1H221MPD
	330	165.00	0.12	410	10.0	16.0	5.0	0.6	493-1343-ND	.60	4.41	31.50	UVZ1H331MPD
	470	235.00	0.12	530	12.5	20.0	5.0	0.6	493-1344-ND	1.07	8.01	60.08	UVZ1H471MHD
	1000	500.00	0.12	950	12.5	25.0	5.0	0.6	493-1345-ND	1.01	7.49	54.99	UVZ1H102MHD
	2200	1100.00	0.14	1470	16.0	35.5	7.5	0.8	493-1346-ND	2.25	17.04	128.60	UVZ1H222MHD
	3300	1650.00	0.16	1770	18.0	35.5	7.5	0.8	493-1347-ND	2.70	20.46	154.40	UVZ1H332MHD
	4700	2350.00	0.18	2100	20.0	40.0	10.0	1.0	493-1348-ND	4.30	32.57	245.80	UVZ1H472MRD
	6800	3400.00	0.22	2500	22.0	50.0	10.0	1.0	493-1349-ND	5.44	41.21	311.00	UVZ1H682MRD
	10000	5000.00	0.30	2850	25.0	50.0	12.5	1.0	493-1350-ND	7.56	57.21	431.80	UVZ1H103MRD
63	10	6.30	0.10	46	5.0	11.0	2.0	0.5	493-1351-ND	.25	1.72	12.10	UVZ1J100MDD
	22	13.86	0.10	71	5.0	11.0	2.0	0.5	493-1352-ND	.33	2.22	15.68	UVZ1J220MDD
	33	20.79	0.10	100	6.3	11.0	2.5	0.5	493-1353-ND	.35	2.38	16.78	UVZ1J330MED
	47	29.61	0.10	120	6.3	11.0	2.5	0.5	493-1354-ND	.37	2.54	17.88	UVZ1J470MED
	100	63.00	0.10	215	10.0	12.5	5.0	0.6	493-1355-ND	.41	3.01	21.50	UVZ1J101MPD
	220	138.60	0.10	335	10.0	16.0	5.0	0.6	493-1356-ND	.71	5.25	38.54	UVZ1J221MPD
	330	207.90	0.10	510	10.0	20.0	5.0	0.6	493-1357-ND	.80	5.95	43.71	UVZ1J331MPD
	470	296.10	0.10	640	12.5	20.0	5.0	0.6	493-1358-ND	1.06	7.87	57.81	UVZ1J471MHD
	1000	630.00	0.10	930	16.0	25.0	7.5	0.8	493-1359-ND	1.68	12.57	94.28	UVZ1J102MHD
	2200	1386.00	0.12	1650	18.0	35.5	7.5	0.8	493-1360-ND	2.10	15.90	120.00	UVZ1J222MHD
	3300	2079.00	0.14	1950	20.0	40.0	10.0	1.0	493-1361-ND	4.28	32.38	244.40	UVZ1J332MRD
	4700	2961.00	0.16	2450	22.0	50.0	10.0	1.0	493-1362-ND	5.39	40.84	308.20	UVZ1J472MRD
	6800	4284.00	0.20	2800	25.0	50.0	12.5	1.0	493-1363-ND	7.27	55.01	415.20	UVZ1J682MRD
100	0.1	3.00	0.08	1.5	5.0	11.0	2.0	0.5	493-1364-ND	.26	1.66	11.16	UVZ2A0R1MDD
	0.22	3.00	0.08	3.4	5.0	11.0	2.0	0.5	493-1365-ND	.26	1.66	11.16	UVZ2AR22MDD
	0.33	3.00	0.08	5	5.0	11.0	2.0	0.5	493-1366-ND	.26	1.66	11.16	UVZ2AR33MDD
	0.47	3.00	0.08	7.1	5.0	11.0	2.0	0.5	493-1367-ND	.26	1.66	11.16	UVZ2AR47MDD
	1	3.00	0.08	15	5.0	11.0	2.0	0.5	493-1368-ND	.26	1.66	11.16	UVZ2A010MDD
	2.2	3.00	0.08	21	5.0	11.0	2.0	0.5	493-1369-ND	.26	1.66	11.16	UVZ2A2R2MDD
	3.3	3.30	0.08	29	5.0	11.0	2.0	0.5	493-1370-ND	.25	1.72	12.10	UVZ2A3R3MDD
	4.7	4.70	0.08	32	5.0	11.0	2.0	0.5	493-1371-ND	.25	1.72	12.10	UVZ2A4R7MDD
	10	10.00	0.08	54	6.3	11.0	2.5	0.5	493-1372-ND	.33	2.22	15.68	UVZ2A100MED
	22	22.00	0.08	93	6.3	11.0	2.5	0.5	493-1373-ND	.37	2.54	17.88	UVZ2A220MED
	33	33.00	0.08	130	8.0	11.5	3.5	0.6	493-1374-ND	.40	2.98	21.25	UVZ2A330MPD
	47	47.00	0.08	165	10.0	12.5	5.0	0.6	493-1375-ND	.46	3.40	24.25	UVZ2A470MPD
	100	100.00	0.08	265	10.0	20.0	5.0	0.6	493-1376-ND	.64	4.74	34.78	UVZ2A101MPD
	220	220.00	0.08	440	12.5	25.0	5.0	0.6	493-1377-ND	1.06	7.98	59.85	UVZ2A221MHD
	330	330.00	0.08	540	12.5	25.0	5.0	0.6	493-1378-ND	1.18	8.85	66.38	UVZ2A331MHD
	470	470.00	0.08	715	16.0	25.0	7.5	0.8	493-1379-ND	1.68	12.57	94.28	UVZ2A471MHD
	1000	1000.00	0.08	985	18.0	40.0	7.5	0.8	493-1380-ND	2.40	18.18	137.20	UVZ2A102MHD
	2200	2200.00	0.10	1750	22.0	50.0	10.0	1.0	493-1381-ND	6.04	45.77	345.40	UVZ2A222MRD
	3300	3300.00	0.12	2070	25.0	50.0	12.5	1.0	493-1382-ND	6.29	47.65	359.60	UVZ2A332MRD

(Continued)

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Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @120Hz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
					ØD	L	P	ød		1	10	100	
160	0.47	47.52	0.20	11	6.3	11.0	2.5	0.5	493-1383-ND	.25	1.72	12.10	UVZ2CR47MED
	1	56	0.20	16	6.3	11.0	2.5	0.5	493-1384-ND	.25	1.72	12.10	UVZ2C010MED
	2.2	75.2	0.20	25	6.3	11.0	2.5	0.5	493-1385-ND	.31	2.11	14.85	UVZ2C2R2MED
	3.3	92.8	0.20	30	6.3	11.0	2.5	0.5	493-1386-ND	.39	2.61	18.43	UVZ2C3R3MED
	4.7	115.2	0.20	34	6.3	11.0	2.5	0.5	493-1387-ND	.39	2.65	18.70	UVZ2C4R7MED
	10	200	0.20	41	8.0	11.5	3.5	0.6	493-1388-ND	.40	2.98	21.25	UVZ2C100MPD
	22	392	0.20	100	10.0	16.0	5.0	0.6	493-1389-ND	.58	4.27	30.50	UVZ2C220MPD
	33	568	0.20	145	10.0	20.0	5.0	0.6	493-1390-ND	.67	4.96	36.43	UVZ2C330MPD
	47	792	0.20	195	12.5	20.0	5.0	0.6	493-1391-ND	.76	5.66	41.60	UVZ2C470MHD
	100	1640	0.20	215	12.5	25.0	5.0	0.6	493-1392-ND	1.10	8.28	62.10	UVZ2C101MHD
	220	3560	0.20	570	16.0	35.5	7.5	0.8	493-1393-ND	1.90	14.36	108.40	UVZ2C221MHD
	330	5320	0.20	750	18.0	40.0	7.5	0.8	493-1394-ND	2.36	17.86	134.80	UVZ2C331MHD
	470	7560	0.20	900	22.0	40.0	10.0	1.0	493-1395-ND	3.49	26.45	199.60	UVZ2C471MRD
	1000	16040	0.20	1310	25.0	50.0	12.5	1.0	493-1396-ND	4.59	34.74	262.20	UVZ2C102MRD
200	0.47	49.4	0.20	11	6.3	11.0	2.5	0.5	493-1397-ND	.30	2.03	14.30	UVZ2DR47MED
	1	60	0.20	16	6.3	11.0	2.5	0.5	493-1398-ND	.30	2.03	14.30	UVZ2D010MED
	2.2	84	0.20	25	6.3	11.0	2.5	0.5	493-1399-ND	.34	2.30	16.23	UVZ2D2R2MED
	3.3	106	0.20	30	6.3	11.0	2.5	0.5	493-1400-ND	.39	2.65	18.70	UVZ2D3R3MED
	4.7	134	0.20	39	8.0	11.5	3.5	0.6	493-1401-ND	.40	2.98	21.25	UVZ2D4R7MPD
	10	240	0.20	65	10.0	12.5	5.0	0.6	493-1402-ND	.50	3.71	26.50	UVZ2D100MPD
	22	480	0.20	120	10.0	20.0	5.0	0.6	493-1403-ND	.67	4.96	36.43	UVZ2D220MPD
	33	700	0.20	160	12.5	20.0	5.0	0.6	493-1404-ND	.76	5.66	41.60	UVZ2D330MHD
	47	980	0.20	195	12.5	20.0	5.0	0.6	493-1405-ND	.76	5.66	41.60	UVZ2D470MHD
	100	2040	0.20	375	16.0	31.5	7.5	0.8	493-1406-ND	1.84	13.80	103.50	UVZ2D101MHD
	220	4440	0.20	575	18.0	35.5	7.5	0.8	493-1407-ND	2.14	16.17	122.00	UVZ2D221MHD
	330	6640	0.20	705	20.0	40.0	10.0	1.0	493-1408-ND	3.58	27.14	204.80	UVZ2D331MRD
	470	9440	0.20	840	22.0	50.0	10.0	1.0	493-1409-ND	4.59	34.74	262.20	UVZ2D471MRD
250	0.47	51.75	0.20	10	6.3	11.0	2.5	0.5	493-1410-ND	.31	2.11	14.85	UVZ2ER47MED
	1	65	0.20	15	6.3	11.0	2.5	0.5	493-1411-ND	.31	2.11	14.85	UVZ2E010MED
	2.2	95	0.20	23	6.3	11.0	2.5	0.5	493-1412-ND	.39	2.61	18.43	UVZ2E2R2MED
	3.3	122.5	0.20	32	8.0	11.5	3.5	0.6	493-1413-ND	.39	2.65	18.70	UVZ2E3R3MPD
	4.7	157.5	0.20	39	8.0	11.5	3.5	0.6	493-1414-ND	.40	2.98	21.25	UVZ2E4R7MPD
	10	290	0.20	74	10.0	16.0	5.0	0.6	493-1415-ND	.58	4.27	30.50	UVZ2E100MPD
	22	590	0.20	130	12.5	20.0	5.0	0.6	493-1416-ND	.67	4.96	36.43	UVZ2E220MHD
	33	865	0.20	160	12.5	20.0	5.0	0.6	493-1417-ND	.76	5.66	41.60	UVZ2E330MHD
	47	1215	0.20	210	12.5	25.0	5.0	0.6	493-1418-ND	1.10	8.28	62.10	UVZ2E470MHD
	100	2540	0.20	365	16.0	31.5	7.5	0.8	493-1419-ND	1.95	14.76	111.40	UVZ2E101MHD
	220	5540	0.20	600	20.0	40.0	10.0	1.0	493-1420-ND	2.36	17.86	134.80	UVZ2E221MRD
	330	8290	0.20	730	22.0	50.0	10.0	1.0	493-1421-ND	4.38	33.13	250.00	UVZ2E331MRD
	470	11790	0.20	870	25.0	50.0	12.5	1.0	493-1422-ND	5.58	42.24	318.80	UVZ2E471MRD
315	1	71.5	0.20	15	6.3	11.0	2.5	0.5	493-1423-ND	.32	2.18	15.40	UVZ2F010MED
	2.2	109.3	0.20	26	8.0	11.5	3.5	0.6	493-1424-ND	.33	2.45	17.50	UVZ2F2R2MPD
	3.3	143.95	0.20	38	10.0	12.5	5.0	0.6	493-1425-ND	.36	2.66	19.00	UVZ2F3R3MPD
	4.7	188.05	0.20	45	10.0	12.5	5.0	0.6	493-1426-ND	.45	3.29	23.50	UVZ2F4R7MPD
	10	355	0.20	80	10.0	20.0	5.0	0.6	493-1427-ND	.58	4.27	30.50	UVZ2F100MPD
	22	733	0.20	115	12.5	20.0	5.0	0.6	493-1428-ND	.67	4.96	36.43	UVZ2F220MHD
	33	1079.5	0.20	195	16.0	25.0	7.5	0.8	493-1429-ND	1.03	7.74	58.05	UVZ2F330MHD
	47	1520.5	0.20	230	16.0	25.0	7.5	0.8	493-1430-ND	1.76	13.23	99.23	UVZ2F470MHD
	100	3190	0.20	395	18.0	35.5	7.5	0.8	493-1431-ND	2.19	16.62	125.40	UVZ2F101MHD
	220	6970	0.20	620	22.0	50.0	10.0	1.0	493-1432-ND	5.65	42.74	322.60	UVZ2F221MRD
	330	10435	0.20	760	25.0	50.0	12.5	1.0	493-1433-ND	8.02	60.71	458.20	UVZ2F331MRD
350	1	75	0.25	15	6.3	11.0	2.5	0.5	493-1434-ND	.34	2.52	18.00	UVZ2V010MED
	2.2	117	0.25	26	8.0	11.5	3.5	0.6	493-1435-ND	.37	2.70	19.25	UVZ2V2R2MPD
	3.3	155.5	0.25	38	10.0	12.5	5.0	0.6	493-1436-ND	.40	2.94	21.00	UVZ2V3R3MPD
	4.7	204.5	0.25	45	10.0	12.5	5.0	0.6	493-1437-ND	.45	3.33	23.75	UVZ2V4R7MPD
	10	390	0.25	80	10.0	20.0	5.0	0.6	493-1438-ND	.68	5.06	37.13	UVZ2V100MPD
	22	810	0.25	115	12.5	25.0	5.0	0.6	493-1439-ND	.83	6.14	45.12	UVZ2V220MHD
	33	1195	0.25	195	16.0	25.0	7.5	0.8	493-1440-ND	1.27	9.51	71.33	UVZ2V330MHD
	47	1685	0.25	270	16.0	35.5	7.5	0.8	493-1441-ND	1.93	14.49	108.68	UVZ2V470MHD
	100	3540	0.25	420	18.0	40.0	7.5	0.8	493-1442-ND	2.44	18.50	139.60	UVZ2V101MHD
	220	7740	0.25	620	22.0	50.0	10.0	1.0	493-1443-ND	6.21	46.98	354.60	UVZ2V221MRD
400	1	80	0.25	17	8.0	11.5	3.5	0.6	493-1444-ND	.37	2.73	19.50	UVZ2G010MPD
	2.2	128	0.25	30	10.0	12.5	5.0	0.6	493-1445-ND	.42	3.12	22.25	UVZ2G2R2MPD
	3.3	172	0.25	38	10.0	12.5	5.0	0.6	493-1446-ND	.46	3.36	24.00	UVZ2G3R3MPD
	4.7	228	0.25	50	10.0	16.0	5.0	0.6	493-1447-ND	.59	4.38	31.25	UVZ2G4R7MPD
	10	440	0.25	90	12.5	20.0	5.0	0.6	493-1448-ND	.77	5.76	42.30	UVZ2G100MHD
	22	920	0.25	165	16.0	25.0	7.5	0.8	493-1449-ND	1.22	9.18	68.85	UVZ2G220MHD
	33	1360	0.25	215	16.0	31.5	7.5	0.8	493-1450-ND	1.93	14.49	108.68	UVZ2G330MHD
	47	1920	0.25	270	16.0	35.5	7.5	0.8	493-1451-ND	1.99	15.05	113.60	UVZ2G470MHD
	100	4040	0.25	450	20.0	40.0	10.0	1.0	493-1452-ND	3.55	26.87	202.80	UVZ2G101MRD
	220	8840	0.25	660	25.0	50.0	12.5	1.0	493-1453-ND	6.31	47.75	360.40	UVZ2G221MRD
450	1	85	0.25	13	8.0	11.5	3.5	0.6	493-1454-ND	.38	2.80	20.00	UVZ2W010MPD
	2.2	139	0.25	23	10.0	12.5	5.0	0.6	493-1455-ND	.48	3.57	25.50	UVZ2W2R2MPD
	3.3	188.5	0.25	31	10.0	16.0	5.0	0.6	493-1456-ND	.57	4.26	31.26	UVZ2W3R3MPD
	4.7	251.5	0.25	40	10.0	20.0	5.0	0.6	493-1457-ND	.70	5.22	38.31	UVZ2W4R7MPD
	10	490	0.25	65	12.5	20.0	5.0	0.6	493-1458-ND	1.05	7.86	58.95	UVZ2W100MHD
	22	1030	0.25	115	16.0	25.0	7.5	0.8	493-1459-ND	1.48	11.10	83.25	UVZ2W220MHD
	33	1525	0.25	165	16.0	35.5	7.5	0.8	493-1460-ND	1.86	14.05	106.00	UVZ2W330MHD
	47	2155	0.25	185	18.0	40.0	7.5	0.8	493-1461-ND	2.31	17.52	132.20	UVZ2W470MHD
	100	4540	0.25	270	22.0	40.0	10.0	1.0	493-1462-ND	4.78	36.17	273.00	UVZ2W101MRD

nichicon PW Series Aluminum Electrolytic Capacitors (Radial Lead)

Low Impedance, High Reliability 105°C

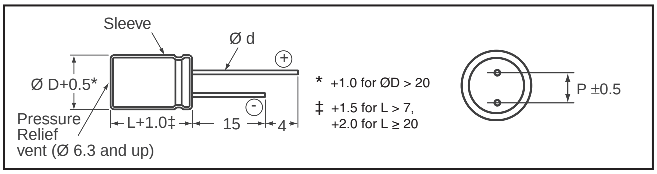
Sleeve
Ø d
+
Ø D+0.5*
Pressure Relief vent (Ø 6.3 and up)
L+1.0‡
15
4
−
* +1.0 for ØD > 20
‡ +1.5 for L > 7, +2.0 for L ≥ 20
P ±0.5

FEATURES: • Miniature sized • Low impedance • High reliability withstanding 5000 hour load life at 105°C (3000/2000 hours for smaller case sizes as specified) • Ideal for switching power supplies

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C (6.3 ~ 100V), -40°C ~ 105°C (160 ~ 400V), -25°C ~ 105°C (450V)
Capacitance Tolerance	±20% at 120Hz, 20°C

- **Leakage Current:**

Rated Volt. (V)	6.3 to 100	160 to 450
Leakage Current	After 1 minute application of rated voltage, leakage current is not more than 0.03CV or 4 (μA), whichever is greater.	CV ≤ 1000: I = 0.1CV+40 (μA) Max. (1 minute) CV > 1000: I = 0.04CV+100 (μA) Max. (1 minute)

- **tan δ:**
For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.
Measurement frequency: 120Hz, Temperature: 20°C.

Rated Volt. (V)-	6.3	10	16	25	35	50	63	100	160 to 250	315 to 350	400 to 450
tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20	0.25

- **Stability at Low Temperature:**

Rated Voltage (V)		6.3-10	16-25	35-50	63-100	160-200	250	315-350	400	450
Impedance ratio	Z-55°C/Z+20°C	3	3	3	3	—	—	—	—	—
	Z-40°C/Z+20°C	—	—	—	—	4	6	8	10	—
	Z-25°C/Z+20°C	—	—	—	—	3	3	4	6	15

- **Endurance:** After an application of D.C. bias voltage plus the rated ripple current for 5000 hours (2000 hours for D = 4, 5 and 6.3, 3000 hours for D = 8 and 10) at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±20% of initial value
tan δ	200 % or less of initial specified value
Leakage Current	Initial specified value or less

- **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed
- **Marking:** Printed with white color letter on dark brown sleeve

Rated Voltage (VDC)	Cap (μF)	Leakage Current (μA)	Impedance Ω Maximum 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
6.3	22	4.158	0.600	0.22	180	5	11.0	2.0	0.50	493-1687-ND	.24	1.60	11.28	UPW0J220MDD
	27	5.103	2.000	0.22	65	4	7.0	1.5	0.45	493-1688-ND	.24	1.60	11.28	UPW0J270MDD
	33	6.237	0.600	0.22	180	5	11.0	2.0	0.50	493-1689-ND	.24	1.60	11.28	UPW0J330MDD
	33	6.237	0.950	0.22	120	5	7.0	2.0	0.45	493-1690-ND	.24	1.60	11.28	UPW0J330MDD6
	47	8.883	0.600	0.22	180	5	11.0	2.0	0.50	493-1691-ND	.24	1.60	11.28	UPW0J470MDD
	47	8.883	0.950	0.22	120	5	7.0	2.0	0.45	493-1692-ND	.24	1.60	11.28	UPW0J470MDD6
	56	10.584	0.950	0.22	120	5	7.0	2.0	0.45	493-1693-ND	.24	1.60	11.28	UPW0J560MDD
	68	12.852	1.300	0.22	120	4	11.0	1.5	0.45	493-1694-ND	.26	1.79	12.65	UPW0J680MDD
	100	18.9	0.600	0.22	180	5	11.0	2.0	0.50	493-1695-ND	.27	1.83	12.93	UPW0J101MDD
	120	22.68	0.450	0.22	200	6.3	7.0	2.5	0.45	493-1696-ND	.30	2.03	14.30	UPW0J121MDD
	150	28.35	0.500	0.22	235	5	15.0	2.0	0.50	493-1697-ND	.30	2.03	14.30	UPW0J151MDD6
	150	28.35	0.250	0.22	290	6.3	11.0	2.5	0.50	493-1698-ND	.30	2.03	14.30	UPW0J151MED
	220	41.58	0.250	0.22	290	6.3	11.0	2.5	0.50	493-1699-ND	.33	2.26	15.95	UPW0J221MED
	330	62.37	0.250	0.22	290	6.3	11.0	2.5	0.50	493-1700-ND	.40	2.69	18.98	UPW0J331MED
	330	62.37	0.230	0.22	430	6.3	15.0	2.5	0.50	493-1701-ND	.40	2.69	18.98	UPW0J331MED6
	470	88.83	0.117	0.22	555	8	11.5	3.5	0.60	493-1702-ND	.35	2.56	18.25	UPW0J471MPD
	560	105.84	0.117	0.22	555	8	11.5	3.5	0.60	493-1703-ND	.37	2.70	19.25	UPW0J561MPD
	680	128.52	0.090	0.22	755	10	12.5	5.0	0.60	493-1704-ND	.38	2.77	19.75	UPW0J681MPD
	820	154.98	0.085	0.22	730	8	15.0	3.5	0.60	493-1705-ND	.51	3.75	26.75	UPW0J821MPD
	820	154.98	0.090	0.22	755	10	12.5	5.0	0.60	493-1706-ND	.51	3.75	26.75	UPW0J821MPD6
	1000	189	0.090	0.22	755	10	12.5	5.0	0.60	493-1707-ND	.56	4.13	29.50	UPW0J102MPD
	1200	226.8	0.065	0.22	995	8	20.0	3.5	0.60	493-1708-ND	.57	4.17	29.75	UPW0J122MPD
	1200	226.8	0.068	0.22	1050	10	16.0	5.0	0.60	493-1709-ND	.61	4.54	33.37	UPW0J122MPD6
	1500	283.5	0.052	0.22	1220	10	20.0	5.0	0.60	493-1710-ND	.61	4.54	33.37	UPW0J152MPD
	2200	415.8	0.038	0.24	1655	12.5	20.0	5.0	0.60	493-1711-ND	.80	5.95	43.71	UPW0J222MHD
	2200	415.8	0.045	0.24	1440	10	25.0	5.0	0.60	493-1712-ND	.80	5.95	43.71	UPW0J222MPD6
	2700	510.3	0.035	0.24	1815	10	31.5	5.0	0.60	493-1713-ND	1.01	7.55	55.46	UPW0J272MPD
	3300	623.7	0.038	0.26	1655	12.5	20.0	5.0	0.60	493-1714-ND	1.05	7.81	57.34	UPW0J332MHD
	3900	737.1	0.030	0.26	1945	12.5	25.0	5.0	0.60	493-1715-ND	1.16	8.70	65.25	UPW0J392MHD
	4700	888.3	0.022	0.28	2555	16	25.0	7.5	0.80	493-1716-ND	1.19	8.91	66.83	UPW0J472MHD
	4700	888.3	0.025	0.28	2310	12.5	31.5	5.0	0.80	493-1717-ND	1.19	8.91	66.83	UPW0J472MHD6
	5600	1058.4	0.022	0.30	2510	12.5	35.5	5.0	0.80	493-1718-ND	1.49	11.16	83.70	UPW0J562MHD
	5600	1058.4	0.029	0.30	2205	16	20.0	7.5	0.80	493-1719-ND	1.49	11.16	83.70	UPW0J562MHD6
	6800	1285.2	0.022	0.32	2555	16	25.0	7.5	0.80	493-1720-ND	1.52	11.40	85.50	UPW0J682MHD
	6800	1285.2	0.028	0.32	2490	18	20.0	7.5	0.80	493-1721-ND	1.52	11.40	85.50	UPW0J682MHD6
	8200	1549.8	0.018	0.36	3010	16	31.5	7.5	0.80	493-1722-ND	1.83	13.89	104.80	UPW0J822MHD
	10000	1890	0.016	0.40	3150	16	31.5	7.5	0.80	493-1723-ND	1.93	14.63	110.40	UPW0J103MHD
	10000	1890	0.020	0.40	2740	18	25.0	7.5	0.80	493-1724-ND	1.93	14.63	110.40	UPW0J103MHD6
	12000	2268	0.016	0.44	3635	18	31.5	7.5	0.80	493-1725-ND	2.25	17.07	128.80	UPW0J123MHD
	15000	2835	0.015	0.5	3680	18	35.5	7.5	0.80	493-1726-ND	2.38	18.02	136.00	UPW0J153MHD
10	22	6.6	0.600	0.19	180	5	11.0	2.0	0.50	493-1727-ND	.24	1.60	11.28	UPW1A220MDD
	22	6.6	2.000	0.19	65	4	7.0	1.5	0.45	493-1728-ND	.24	1.60	11.28	UPW1A220MDD6
	33	9.9	0.600	0.19	180	5	11.0	2.0	0.50	493-1729-ND	.24	1.60	11.28	UPW1A330MDD
	33	9.9	0.950	0.19	120	5	7.0	2.0	0.45	493-1730-ND	.24	1.60	11.28	UPW1A330MDD6
	39	11.7	0.950	0.19	120	5	7.0	2.0	0.45	493-1731-ND	.24	1.60	11.28	UPW1A390MDD
	47	14.1	0.600	0.19	180	5	11.0	2.0	0.50	493-1732-ND	.24	1.60	11.28	UPW1A470MDD
	47	14.1	1.300	0.19	120	4	11.0	1.5	0.45	493-1733-ND	.24	1.60	11.28	UPW1A470MDD6
	82	24.6	0.600	0.19	180	5	11.0	2.0	0.50	493-1734-ND	.27	1.83	12.93	UPW1A820MDD
	82	24.6	0.450	0.19	200	6.3	7.0	2.5	0.45	493-1735-ND	.27	1.83	12.93	UPW1A820MDD6
	100	30	0.600	0.19	180	5	11.0	2.0	0.50	493-1736-ND	.27	1.83	12.93	UPW1A101MDD
	100	30	0.500	0.19	235	5	15.0	2.0	0.50	493-1737-ND	.27	1.83	12.93	UPW1A101MDD6
	150	45	0.250	0.19	290	6.3	11.0	2.5	0.50	493-1738-ND	.33	2.26	15.95	UPW1A151MED
	180	54	0.250	0.19	290	6.3	11.0	2.5	0.50	493-1739-ND	.39	2.65	18.70	UPW1A181MED
	220	66	0.250	0.19	290	6.3	11.0	2.5	0.50	493-1740-ND	.34	2.49	17.75	UPW1A221MED
	220	66	0.230	0.19	430	6.3	15.0	2.5	0.50	493-1741-ND	.34	2.49	17.75	UPW1A221MED6
	330	99	0.117	0.19	555	8	11.5	3.5	0.60	493-1742-ND	.37	2.70	19.25	UPW1A331MPD
	470	141	0.117	0.19	555	8	11.5	3.5	0.60	493-1743-ND	.49	3.61	25.75	UPW1A471MPD
	680	204	0.090	0.19	755	10	12.5	5.0	0.60	493-1744-ND	.51	3.75	26.75	UPW1A681MPD
	680	204	0.085	0.19	730	8	15.0	3.5	0.60	493-1745-ND	.51	3.75	26.75	UPW1A681MPD6
	1000	300	0.068	0.19	1050	10	16.0	5.0	0.60	493-1746-ND	.62	4.61	33.84	UPW1A102MPD
	1000	300	0.065	0.19	995	8	20.0	3.5	0.60	493-1747-ND	.62	4.61	33.84	UPW1A102MPD6
	1200	360	0.052	0.19	1220	10	20.0	5.0	0.60	493-1748-ND	.69	5.15	37.84	UPW1A122MPD
	1500	450	0.052	0.19	1220	10	20.0	5.0	0.60	493-1749-ND	.72	5.34	39.25	UPW1A152MPD
	1500	450	0.045	0.19	1440	10	25.0	5.0	0.60	493-1750-ND	.72	5.34	39.25	UPW1A152MPD6
	2200	660	0.038	0.21	1655	12.5	20.0	5.0	0.60	493-1751-ND	1.01	7.55	55.46	UPW1A222MHD
	2200	660	0.035	0.21	1815	10	31.5	5.0	0.60	493-1752-ND	1.01	7.55	55.46	UPW1A222MPD6
	2700	810	0.030	0.21	1945	12.5	25.0	5.0	0.60	493-1753-ND	1.05	7.81	57.34	UPW1A272MHD
	3300	990	0.030	0.23	1945	12.5	25.0	5.0	0.60	493-1754-ND	.90	6.72	49.35	UPW1A332MHD
	3300	990	0.025	0.23	2310	12.5	31.5	5.0	0.80	493-1755-ND	.90	6.72	49.35	UPW1A332MHD6
	3900	1170	0.022	0.23	2510	12.5	35.5	5.0	0.80	493-1756-ND	1.19	8.91	66.83	UPW1A392MHD
	3900	1170	0.029	0.23	2205	16	20.0	7.5	0.80	493-1757-ND	1.19	8.91	66.83	UPW1A392MHD6
	4700	1410	0.022	0.25	2555	16	25.0	7.5	0.80	493-1758-ND	1.45	10.86	81.45	UPW1A472MHD
	5600	1680	0.022	0.27	2555	16	25.0	7.5	0.80	493-1759-ND	1.83	13.89	104.80	UPW1A562MHD
	5600	1680	0.028	0.27	2490	18	20.0	7.5	0.80	493-1760-ND	1.83	13.89	104.80	UPW1A562MHD6
	6800	2040	0.018	0.29	3010	16	31.5	7.5	0.80	493-1761-ND	1.93	14.63	110.40	UPW1A682MHD

(Continued)

Rated Voltage (VDC)	Cap (µF)	Leakage Current (µA)	Impedance Ω Maximum 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Nichicon Part No.
10	6800	2040	0.020	0.29	2740	18	25.0	7.5	0.80	493-1762-ND	1.93	14.63	110.40	UPW1A682MHD6
	8200	2460	0.016	0.33	3150	16	35.5	7.5	0.80	493-1763-ND	2.25	17.07	128.80	UPW1A822MHD
	8200	2460	0.016	0.33	3635	18	31.5	7.5	0.80	493-1764-ND	2.25	17.07	128.80	UPW1A822MHD6
	10000	3000	0.015	0.37	3680	18	35.5	7.5	0.80	493-1765-ND	2.38	18.02	136.00	UPW1A103MHD
	15000	4500	0.014	0.47	3800	18	40.0	7.5	0.80	493-1766-ND	2.61	19.74	149.00	UPW1A153MHD
16	10	4.8	0.600	0.16	180	5	11.0	2.0	0.50	493-1767-ND	.24	1.60	11.28	UPW1C100MDD
	15	7.2	2.000	0.16	65	4	7.0	1.5	0.45	493-1768-ND	.24	1.60	11.28	UPW1C150MDD
	22	10.56	0.600	0.16	180	5	11.0	2.0	0.50	493-1769-ND	.24	1.60	11.28	UPW1C220MDD
	22	10.56	0.950	0.16	120	5	7.0	2.0	0.45	493-1770-ND	.24	1.60	11.28	UPW1C220MDD6
	27	12.96	0.950	0.16	120	5	7.0	2.0	0.45	493-1771-ND	.24	1.60	11.28	UPW1C270MDD
	33	15.84	0.600	0.16	180	5	11.0	2.0	0.50	493-1772-ND	.24	1.60	11.28	UPW1C330MDD
	33	15.84	0.450	0.16	200	6.3	7.0	2.5	0.45	493-1773-ND	.24	1.60	11.28	UPW1C330MDD6
	39	18.72	1.300	0.16	120	4	11.0	1.5	0.45	493-1774-ND	.25	1.72	12.10	UPW1C390MDD
	47	22.56	0.600	0.16	180	5	11.0	2.0	0.50	493-1775-ND	.27	1.83	12.93	UPW1C470MDD
	56	26.88	0.600	0.16	180	5	11.0	2.0	0.50	493-1776-ND	.27	1.83	12.93	UPW1C560MDD
	56	26.88	0.450	0.16	200	6.3	7.0	2.5	0.45	493-1777-ND	.27	1.83	12.93	UPW1C560MDD6
	82	39.36	0.500	0.16	235	5	15.0	2.0	0.50	493-1778-ND	.30	2.03	14.30	UPW1C820MDD
	100	48	0.250	0.16	290	6.3	11.0	2.5	0.50	493-1779-ND	.33	2.26	15.95	UPW1C101MED
	120	57.6	0.250	0.16	290	6.3	11.0	2.5	0.50	493-1780-ND	.33	2.26	15.95	UPW1C121MED
	150	72	0.250	0.16	290	6.3	11.0	2.5	0.50	493-1781-ND	.39	2.65	18.70	UPW1C151MED
	180	86.4	0.230	0.16	430	6.3	15.0	2.5	0.50	493-1782-ND	.34	2.49	17.75	UPW1C181MED
	220	105.6	0.117	0.16	555	8	11.5	3.5	0.60	493-1783-ND	.37	2.70	19.25	UPW1C221MPD
	330	158.4	0.117	0.16	555	8	11.5	3.5	0.60	493-1784-ND	.51	3.75	26.75	UPW1C331MPD
	470	225.6	0.090	0.16	755	10	12.5	5.0	0.60	493-1785-ND	.53	3.92	28.00	UPW1C471MPD
	470	225.6	0.085	0.16	730	8	15.0	3.5	0.60	493-1786-ND	.53	3.92	28.00	UPW1C471MPD6
	680	326.4	0.068	0.16	1050	10	16.0	5.0	0.60	493-1787-ND	.67	4.96	36.43	UPW1C681MPD
	680	326.4	0.065	0.16	995	8	20.0	3.5	0.60	493-1788-ND	.67	4.96	36.43	UPW1C681MPD6
	820	393.6	0.052	0.16	1220	10	20.0	5.0	0.60	493-1789-ND	.78	5.82	42.77	UPW1C821MPD
	1000	480	0.052	0.16	1220	10	20.0	5.0	0.60	493-1790-ND	.78	5.82	42.77	UPW1C102MPD
	1200	576	0.045	0.16	1440	10	25.0	5.0	0.60	493-1791-ND	1.06	7.90	58.05	UPW1C122MPD
	1500	720	0.038	0.16	1655	12.5	20.0	5.0	0.60	493-1792-ND	1.07	7.94	58.28	UPW1C152MHD
	1500	720	0.035	0.16	1815	10	31.5	5.0	0.60	493-1793-ND	1.07	7.94	58.28	UPW1C152MPD6
	2200	1056	0.030	0.18	1945	12.5	25.0	5.0	0.60	493-1794-ND	.84	6.27	46.06	UPW1C222MHD
	2700	1296	0.025	0.18	2310	12.5	31.5	5.0	0.80	493-1795-ND	1.56	11.67	87.53	UPW1C272MHD
	2700	1296	0.029	0.18	2205	16	20.0	7.5	0.80	493-1796-ND	1.56	11.67	87.53	UPW1C272MHD6
	3300	1584	0.022	0.20	2555	16	25.0	7.5	0.80	493-1797-ND	1.60	12.00	90.00	UPW1C332MHD
	3300	1584	0.022	0.20	2510	12.5	35.5	5.0	0.80	493-1798-ND	1.60	12.00	90.00	UPW1C332MHD6
	3900	1872	0.022	0.20	2555	16	25.0	7.5	0.80	493-1799-ND	1.83	13.89	104.80	UPW1C392MHD
	3900	1872	0.028	0.20	2490	18	20.0	7.5	0.80	493-1800-ND	1.83	13.89	104.80	UPW1C392MHD6
	4700	2256	0.018	0.22	3010	16	31.5	7.5	0.80	493-1801-ND	1.83	13.89	104.80	UPW1C472MHD
	4700	2256	0.020	0.22	2740	18	25.0	7.5	0.80	493-1802-ND	1.83	13.89	104.80	UPW1C472MHD6
	5600	2688	0.016	0.24	3150	16	35.5	7.5	0.80	493-1803-ND	1.93	14.63	110.40	UPW1C562MHD
	5600	2688	0.016	0.24	3635	18	31.5	7.5	0.80	493-1804-ND	1.93	14.63	110.40	UPW1C562MHD6
	6800	3264	0.015	0.26	3680	18	35.5	7.5	0.80	493-1805-ND	2.25	17.07	128.80	UPW1C682MHD
	8200	3936	0.015	0.3	3680	18	35.5	7.5	0.80	493-1806-ND	2.38	18.02	136.00	UPW1C822MHD
	10000	4800	0.014	0.34	3800	18	40.0	7.5	0.80	493-1807-ND	2.61	19.74	149.00	UPW1C103MHD
25	4.7	4	0.600	0.14	180	5	11.0	2.0	0.50	493-1808-ND	.24	1.60	11.28	UPW1E4R7MDD
	10	7.5	0.600	0.14	180	5	11.0	2.0	0.50	493-1809-ND	.24	1.60	11.28	UPW1E100MDD
	10	7.5	2.000	0.14	65	4	7.0	1.5	0.45	493-1810-ND	.24	1.60	11.28	UPW1E100MDD6
	22	16.5	0.600	0.14	180	5	11.0	2.0	0.50	493-1811-ND	.27	1.83	12.93	UPW1E220MDD
	22	16.5	0.950	0.14	120	5	7.0	2.0	0.45	493-1812-ND	.27	1.83	12.93	UPW1E220MDD6
	27	20.25	1.300	0.14	120	4	11.0	1.5	0.45	493-1813-ND	.27	1.83	12.93	UPW1E270MDD
	33	24.75	0.600	0.14	180	5	11.0	2.0	0.50	493-1814-ND	.27	1.83	12.93	UPW1E330MDD
	39	29.25	0.600	0.14	180	5	11.0	2.0	0.50	493-1815-ND	.32	2.18	15.40	UPW1E390MDD
	39	29.25	0.450	0.14	200	6.3	7.0	2.5	0.45	493-1816-ND	.32	2.18	15.40	UPW1E390MDD6
	47	35.25	0.600	0.14	180	5	11.0	2.0	0.50	493-1817-ND	.32	2.18	15.40	UPW1E470MDD
	56	42	0.500	0.14	235	5	15.0	2.0	0.50	493-1818-ND	.32	2.18	15.40	UPW1E560MDD
	82	61.5	0.250	0.14	290	6.3	11.0	2.5	0.50	493-1819-ND	.36	2.66	19.00	UPW1E820MED
	100	75	0.250	0.14	290	6.3	11.0	2.5	0.50	493-1820-ND	.36	2.66	19.00	UPW1E101MED
	120	90	0.230	0.14	430	6.3	15.0	2.5	0.50	493-1821-ND	.37	2.70	19.25	UPW1E121MED
	150	112.5	0.117	0.14	555	8	11.5	3.5	0.60	493-1822-ND	.37	2.73	19.50	UPW1E151MPD
	220	165	0.117	0.14	555	8	11.5	3.5	0.60	493-1823-ND	.51	3.75	26.75	UPW1E221MPD
	330	247.5	0.090	0.14	755	10	12.5	5.0	0.60	493-1824-ND	.52	3.82	27.25	UPW1E331MPD
	330	247.5	0.085	0.14	730	8	15.0	3.5	0.60	493-1825-ND	.52	3.82	27.25	UPW1E331MPD6
	470	352.5	0.068	0.14	1050	10	16.0	5.0	0.60	493-1826-ND	.69	5.15	37.84	UPW1E471MPD
	470	352.5	0.065	0.14	995	8	20.0	3.5	0.60	493-1827-ND	.69	5.15	37.84	UPW1E471MPD6
	560	420	0.052	0.14	1220	10	20.0	5.0	0.60	493-1828-ND	.80	5.92	43.48	UPW1E561MPD
	680	510	0.052	0.14	1220	10	20.0	5.0	0.60	493-1829-ND	.80	5.92	43.48	UPW1E681MPD
	820	615	0.045	0.14	1440	10	25.0	5.0	0.60	493-1830-ND	1.06	7.90	58.05	UPW1E821MPD
	1000	750	0.038	0.14	1655	12.5	20.0	5.0	0.60	493-1831-ND	1.03	7.68	56.40	UPW1E102MHD
	1000	750	0.035	0.14	1815	10	31.5	5.0	0.60	493-1832-ND	1.03	7.68	56.40	UPW1E102MPD6
	1500	1125	0.022	0.14	2555	16	25.0	7.5	0.80	493-1833-ND	1.20	8.97	67.28	UPW1E152MHD
	1500	1125	0.030	0.14	1945	12.5	25.0	5.0	0.60	493-1834-ND	1.20	8.97	67.28	UPW1E152MHD6
	1800	1350	0.025	0.14	2310	12.5	31.5	5.0	0.80	493-1835-ND	1.49	11.16	83.70	UPW1E182MHD
	1800	1350	0.029	0.14	2205	16	20.0	7.5	0.80	493-1836-ND	1.49	11.16	83.70	UPW1E182MHD6
	2200	1650	0.022	0.16	2555	16	25.0	7.5	0.80	493-1837-ND	1.56	11.67	87.53	UPW1E222MHD
	2200	1650	0.022	0.16	2510	12.5	35.5	5.0	0.80	493-1838-ND	1.56	11.67	87.53	UPW1E222MHD3
	2200	1650	0.028	0.16	2490	18	20.0	7.5	0.80	493-1839-ND	1.56	11.67	87.53	UPW1E222MHD6
	2700	2025	0.022	0.16	2555	16	25.0	7.5	0.80	493-1840-ND	1.76	13.36	100.80	UPW1E272MHD
	3300	2475	0.018	0.18	3010	16	31.5	7.5	0.80	493-1841-ND	1.84	13.97	105.40	UPW1E332MHD
	3300	2475	0.020	0.18	2740	18	25.0	7.5	0.80	493-1842-ND	1.84	13.97	105.40	UPW1E332MHD6
	3900	2925	0.016	0.18	3150	16	35.5	7.5	0.80	493-1843-ND	1.93	14.63	110.40	UPW1E392MHD
	3900	2925	0.016	0.18	3635	18	31.5	7.5	0.80	493-1844-ND	1.93	14.63	110.40	UPW1E392MHD6
	4700	3525	0.015	0.2	3680	18	35.5	7.5	0.80	493-1845-ND	1.86	14.05	106.00	UPW1E472MHD
	6800	5100	0.014	0.24	3800	18	40.0	7.5	0.80	493-1846-ND	2.79	21.12	159.40	UPW1E682MHD
35	4.7	4.935	0.600	0.12	180	5	11.0	2.0	0.50	493-1847-ND	.24	1.60	11.28	UPW1V4R7MDD
	6.8	7.14	2.000	0.12	65	4	7.0	1.5	0.45	493-1848-ND	.24	1.60	11.28	UPW1V6R8MDD
	10	10.5	0.600	0.12	180	5	11.0	2.0	0.50	493-1849-ND	.24	1.60	11.28	UPW1V100MDD
	10	10.5	0.950	0.12	120	5	7.0	2.0	0.45	493-1850-ND	.24	1.60	11.28	UPW1V100MDD6
	12	12.6	0.950	0.12	120	5	7.0	2.0	0.45	493-1851-ND	.24	1.60	11.28	UPW1V120MDD
	18	18.9	1.300	0.12	120	4	11.0	1.5	0.45	493-1852-ND	.26	1.79	12.65	UPW1V180MDD
	22	23.1	0.600	0.12	180	5	11.0	2.0	0.50	493-1853-ND	.27	1.83	12.93	UPW1V220MDD
	27	28.35	0.600	0.12	180	5	11.0	2.0	0.50	493-1854-ND	.27	1.83	12.93	UPW1V270MDD
	27	28.35	0.450	0.12	200	6.3	7.0	2.5	0.45	493-1855-ND	.27	1.83	12.93	UPW1V270MDD6
	33	34.65	0.600	0.12	180	5	11.0	2.0	0.50	493-1856-ND	.32	2.18	15.40	UPW1V330MDD
	39	40.95	0.500	0.12	235	5	15.0	2.0	0.50	493-1857-ND	.33	2.26	15.95	UPW1V390MDD
	47	49.35	0.250	0.12	290	6.3	11.0	2.5	0.50	493-1858-ND	.33	2.26	15.95	UPW1V470MED
	56	58.8	0.250	0.12	290	6.3	11.0	2.5	0.50	493-1859-ND	.33	2.26	15.95	UPW1V560MED
	82	86.1	0.230	0.12	430	6.3	15.0	2.5	0.50	493-1860-ND	.38	2.84	20.25	UPW1V820MED
	100	105	0.117	0.12	555	8	11.5	3.5	0.60	493-1861-ND	.37	2.70	19.25	UPW1V101MPD
	150	157.5	0.117	0.12	555	8	11.5	3.5	0.60	493-1862-ND	.40	2.94	21.00	UPW1V151MPD
	220	231	0.090	0.12	755	10	12.5	5.0	0.60	493-1863-ND	.57	4.17	29.75	UPW1V221MPD
	220	231	0.085	0.12	730	8	15.0	3.5	0.60	493-1864-ND	.57	4.17	29.75	UPW1V221MPD6
	330	346.5	0.068	0.12	1050	10	16.0	5.0	0.60	493-1865-ND	.70	5.18	38.07	UPW1V331MPD
	330	346.5	0.065	0.12	995	8	20.0	3.5	0.60	493-1866-ND	.70	5.18	38.07	UPW1V331MPD6

(Continued)

Rated Voltage (VDC)	Cap (µF)	Leakage Current (µA)	Impedance Ω Maximum 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
35	390	409.5	0.052	0.12	1220	10	20.0	5.0	0.60	493-1867-ND	.88	6.56	48.18	UPW1V391MPD
	470	493.5	0.052	0.12	1220	10	20.0	5.0	0.60	493-1868-ND	.88	6.56	48.18	UPW1V471MPD
	560	588	0.045	0.12	1440	10	25.0	5.0	0.60	493-1869-ND	1.07	7.94	58.28	UPW1V561MPD
	680	714	0.038	0.12	1655	12.5	20.0	5.0	0.60	493-1870-ND	1.07	7.97	58.52	UPW1V681MHD
	680	714	0.035	0.12	1815	10	31.5	5.0	0.60	493-1871-ND	1.07	7.97	58.52	UPW1V681MPD6
	1000	1050	0.030	0.12	1945	12.5	25.0	5.0	0.60	493-1872-ND	1.20	9.00	67.50	UPW1V102MHD
	1200	1260	0.025	0.12	2310	12.5	31.5	5.0	0.80	493-1873-ND	1.49	11.16	83.70	UPW1V122MHD
	1200	1260	0.029	0.12	2205	16	20.0	7.5	0.80	493-1874-ND	1.49	11.16	83.70	UPW1V122MHD6
	1500	1575	0.022	0.12	2555	16	25.0	7.5	0.80	493-1875-ND	1.60	12.00	90.00	UPW1V152MHD
	1500	1575	0.022	0.12	2510	12.5	35.5	5.0	0.80	493-1876-ND	1.60	12.00	90.00	UPW1V152MHD6
	1800	1890	0.022	0.12	2555	16	25.0	7.5	0.80	493-1877-ND	1.76	13.36	100.80	UPW1V182MHD
	1800	1890	0.028	0.12	2490	18	20.0	7.5	0.80	493-1878-ND	1.76	13.36	100.80	UPW1V182MHD6
	2200	2310	0.018	0.14	3010	16	31.5	7.5	0.80	493-1879-ND	1.76	13.36	100.80	UPW1V222MHD
	2200	2310	0.020	0.14	2740	18	25.0	7.5	0.80	493-1880-ND	1.76	13.36	100.80	UPW1V222MHD6
	2700	2835	0.016	0.14	3150	16	35.5	7.5	0.80	493-1881-ND	1.93	14.63	110.40	UPW1V272MHD
	2700	2835	0.016	0.14	3635	18	31.5	7.5	0.80	493-1882-ND	1.93	14.63	110.40	UPW1V272MHD6
	3300	3465	0.015	0.16	3680	18	35.5	7.5	0.80	493-1883-ND	2.25	17.07	128.80	UPW1V332MHD
	4700	4935	0.014	0.18	3800	18	40.0	7.5	0.80	493-1884-ND	2.79	21.12	159.40	UPW1V472MHD
50	0.47	4	5.000	0.1	25	5	11.0	2.0	0.50	493-1885-ND	.24	1.60	11.28	UPW1HR47MDD
	1	4	3.500	0.1	40	5	11.0	2.0	0.50	493-1886-ND	.24	1.60	11.28	UPW1H010MDD
	2.2	4	3.000	0.1	55	5	11.0	2.0	0.50	493-1887-ND	.24	1.60	11.28	UPW1H2R2MDD
	3.3	4.95	2.600	0.1	65	5	11.0	2.0	0.50	493-1888-ND	.24	1.60	11.28	UPW1H3R3MDD
	4.7	7.05	2.300	0.1	90	5	11.0	2.0	0.50	493-1889-ND	.24	1.60	11.28	UPW1H4R7MDD
	10	15	1.400	0.1	120	5	11.0	2.0	0.50	493-1890-ND	.26	1.79	12.65	UPW1H100MDD
	10	15	2.500	0.1	90	4	11.0	1.5	0.45	493-1891-ND	.26	1.79	12.65	UPW1H100MDD6
	18	27	1.300	0.1	155	5	11.0	2.0	0.50	493-1892-ND	.33	2.26	15.95	UPW1H180MDD
	22	33	1.200	0.1	170	5	11.0	2.0	0.50	493-1893-ND	.33	2.26	15.95	UPW1H220MDD
	27	40.5	0.900	0.1	215	5	15.0	2.0	0.50	493-1894-ND	.33	2.26	15.95	UPW1H270MDD
	33	49.5	0.430	0.1	300	6.3	11.0	2.5	0.50	493-1895-ND	.33	2.45	17.50	UPW1H330MED
	47	70.5	0.430	0.1	300	6.3	11.0	2.5	0.50	493-1896-ND	.35	2.59	18.50	UPW1H470MED
	56	84	0.400	0.1	360	6.3	15.0	2.5	0.50	493-1897-ND	.37	2.70	19.25	UPW1H560MED
	82	123	0.234	0.1	485	8	11.5	3.5	0.60	493-1898-ND	.51	3.75	26.75	UPW1H820MPD
	100	150	0.234	0.1	485	8	11.5	3.5	0.60	493-1899-ND	.51	3.75	26.75	UPW1H101MPD
	120	180	0.155	0.1	635	8	15.0	3.5	0.60	493-1900-ND	.56	4.13	29.50	UPW1H121MPD
	120	180	0.162	0.1	615	10	12.5	5.0	0.60	493-1901-ND	.56	4.13	29.50	UPW1H121MPD6
	150	225	0.162	0.1	615	10	12.5	5.0	0.60	493-1902-ND	.56	4.13	29.50	UPW1H151MPD
	180	270	0.120	0.1	860	8	20.0	3.5	0.60	493-1903-ND	.61	4.54	33.37	UPW1H181MPD
	180	270	0.119	0.1	850	10	16.0	5.0	0.60	493-1904-ND	.61	4.54	33.37	UPW1H181MPD6
	220	330	0.119	0.1	850	10	16.0	5.0	0.60	493-1905-ND	.61	4.54	33.37	UPW1H221MPD
	220	330	0.090	0.1	1030	10	20.0	5.0	0.60	493-1906-ND	.61	4.54	33.37	UPW1H221MPD6
	270	405	0.082	0.1	1200	10	25.0	5.0	0.60	493-1907-ND	.83	6.18	45.36	UPW1H271MPD
	330	495	0.090	0.1	1030	10	20.0	5.0	0.60	493-1908-ND	.83	6.18	45.36	UPW1H331MPD
	330	495	0.060	0.1	1610	10	31.5	5.0	0.60	493-1909-ND	.83	6.18	45.36	UPW1H331MPD6
	390	585	0.063	0.1	1480	12.5	20.0	5.0	0.60	493-1910-ND	1.07	7.94	58.28	UPW1H391MHD
	470	705	0.060	0.1	1500	12.5	20.0	5.0	0.60	493-1911-ND	1.01	7.59	56.93	UPW1H471MHD
	560	840	0.050	0.1	1832	12.5	25.0	5.0	0.60	493-1912-ND	1.24	9.27	69.53	UPW1H561MHD
	680	1020	0.050	0.1	1832	12.5	25.0	5.0	0.60	493-1913-ND	1.24	9.27	69.53	UPW1H681MHD
	680	1020	0.048	0.1	1835	16	20.0	7.5	0.80	493-1914-ND	1.24	9.27	69.53	UPW1H681MHD6
	820	1230	0.034	0.1	2285	12.5	35.5	5.0	0.80	493-1915-ND	1.49	11.16	83.70	UPW1H821MHD
	820	1230	0.042	0.1	2420	18	20.0	7.5	0.80	493-1916-ND	1.49	11.16	83.70	UPW1H821MHD6
	1000	1500	0.034	0.1	2235	16	25.0	7.5	0.80	493-1917-ND	1.49	11.16	83.70	UPW1H102MHD
	1200	1800	0.028	0.1	2700	16	31.5	7.5	0.80	493-1918-ND	1.93	14.63	110.40	UPW1H122MHD
	1200	1800	0.029	0.1	2610	18	25.0	7.5	0.80	493-1919-ND	1.93	14.63	110.40	UPW1H122MHD6
	1500	2250	0.028	0.1	2700	16	31.5	7.5	0.80	493-1920-ND	1.93	14.63	110.40	UPW1H152MHD
	1500	2250	0.025	0.1	2790	16	35.5	7.5	0.80	493-1921-ND	1.93	14.63	110.40	UPW1H152MHD6
	1800	2700	0.025	0.1	3000	18	31.5	7.5	0.80	493-1922-ND	2.25	17.07	128.80	UPW1H182MHD
	2200	3300	0.023	0.12	3100	18	35.5	7.5	0.80	493-1923-ND	2.43	18.42	139.00	UPW1H222MHD
63	4.7	8.883	4.700	0.09	68	5	11.0	2.0	0.50	493-1924-ND	.27	1.83	12.93	UPW1J4R7MDD
	6.8	12.852	2.500	0.09	95	5	11.0	2.0	0.50	493-1925-ND	.27	1.83	12.93	UPW1J6R8MDD
	6.8	12.852	3.500	0.09	80	4	11.0	1.5	0.45	493-1926-ND	.27	1.83	12.93	UPW1J6R8MDD6
	10	18.9	2.100	0.09	110	5	11.0	2.0	0.50	493-1927-ND	.27	1.83	12.93	UPW1J100MDD
	12	22.68	2.000	0.09	145	5	11.0	2.0	0.50	493-1928-ND	.33	2.26	15.95	UPW1J120MDD
	15	28.35	1.200	0.09	160	6.3	11.0	2.5	0.50	493-1929-ND	.33	2.45	17.50	UPW1J150MED
	18	34.02	1.300	0.09	200	5	15.0	2.0	0.50	493-1930-ND	.33	2.45	17.50	UPW1J180MDD
	22	41.58	0.710	0.09	250	6.3	11.0	2.5	0.50	493-1931-ND	.33	2.45	17.50	UPW1J220MED
	33	62.37	0.710	0.09	250	6.3	11.0	2.5	0.50	493-1932-ND	.35	2.59	18.50	UPW1J330MED
	39	73.71	0.700	0.09	330	6.3	15.0	2.5	0.50	493-1933-ND	.36	2.66	19.00	UPW1J390MED
	47	88.83	0.342	0.09	405	8	11.5	3.5	0.60	493-1934-ND	.40	2.94	21.00	UPW1J470MPD
	68	128.52	0.342	0.09	405	8	11.5	3.5	0.60	493-1935-ND	.51	3.75	26.75	UPW1J680MPD
	100	189	0.256	0.09	535	10	12.5	5.0	0.60	493-1936-ND	.56	4.13	29.50	UPW1J101MPD
	100	189	0.230	0.09	535	8	15.0	3.5	0.60	493-1937-ND	.56	4.13	29.50	UPW1J101MPD6
	120	226.8	0.194	0.09	600	10	16.0	5.0	0.60	493-1938-ND	.61	4.54	33.37	UPW1J121MPD
	150	283.5	0.194	0.09	660	10	16.0	5.0	0.60	493-1939-ND	.61	4.54	33.37	UPW1J151MPD
	180	340.2	0.150	0.09	1020	12.5	15.0	5.0	0.60	493-1940-ND	.88	6.56	48.18	UPW1J181MHD6
	180	340.2	0.147	0.09	885	10	20.0	5.0	0.60	493-1941-ND	.88	6.56	48.18	UPW1J181MPD
	220	415.8	0.147	0.09	885	10	20.0	5.0	0.60	493-1942-ND	1.06	7.90	58.05	UPW1J221MPD
	220	415.8	0.130	0.09	1050	10	25.0	5.0	0.60	493-1943-ND	1.06	7.90	58.05	UPW1J221MPD6
	270	510.3	0.090	0.09	1410	16	15.0	7.5	0.80	493-1944-ND	1.07	7.94	58.28	UPW1J271MHD
	330	623.7	0.085	0.09	1285	12.5	20.0	5.0	0.60	493-1945-ND	1.07	7.94	58.28	UPW1J331MHD
	390	737.1	0.070	0.09	1720	12.5	25.0	5.0	0.60	493-1946-ND	1.24	9.27	69.53	UPW1J391MHD
	390	737.1	0.086	0.09	1690	18	15.0	7.5	0.80	493-1947-ND	1.24	9.27	69.53	UPW1J391MHD6
	470	888.3	0.070	0.09	1720	12.5	25.0	5.0	0.60	493-1948-ND	1.24	9.27	69.53	UPW1J471MHD
	470	888.3	0.059	0.09	1765	16	20.0	7.5	0.80	493-1949-ND	1.24	9.27	69.53	UPW1J471MHD3
	470	888.3	0.055	0.09	2090	12.5	31.5	5.0	0.80	493-1950-ND	1.24	9.27	69.53	UPW1J471MHD6
	680	1285.2	0.050	0.09	2160	16	25.0	7.5	0.80	493-1951-ND	1.49	11.16	83.70	UPW1J681MHD
	680	1285.2	0.055	0.09	2290	18	20.0	7.5	0.80	493-1952-ND	1.49	11.16	83.70	UPW1J681MHD3
	680	1285.2	0.047	0.09	2265	12.5	35.5	5.0	0.80	493-1953-ND	1.49	11.16	83.70	UPW1J681MHD6
	820	1549.8	0.043	0.09	2670	16	31.5	7.5	0.80	493-1954-ND	1.93	14.63	110.40	UPW1J821MHD
	820	1549.8	0.043	0.09	2585	18	25.0	7.5	0.80	493-1955-ND	1.93	14.63	110.40	UPW1J821MHD6
	1000	1890	0.043	0.09	2670	16	31.5	7.5	0.80	493-1956-ND	1.93	14.63	110.40	UPW1J102MHD
	1000	1890	0.036	0.09	2770	16	35.5	7.5	0.80	493-1957-ND	1.93	14.63	110.40	UPW1J102MHD6
	1200	2268	0.032	0.09	2950	18	31.5	7.5	0.80	493-1958-ND	2.25	17.07	128.80	UPW1J122MHD
	1500	2835	0.030	0.09	3095	18	35.5	7.5	0.80	493-1959-ND	2.43	18.42	139.00	UPW1J152MHD
	2200	4158	0.028	0.11	3200	18	40.0	7.5	0.80	493-1960-ND	2.79	21.12	159.40	UPW1J222MHD
100	0.47	4	43.000	0.08	20	5	11.0	2.0	0.50	493-1961-ND	.27	1.83	12.93	UPW2AR47MDD
	1	4	20.000	0.08	30	5	11.0	2.0	0.50	493-1962-ND	.27	1.83	12.93	UPW2A010MDD
	2.2	6.6	9.800	0.08	44	5	11.0	2.0	0.50	493-1963-ND	.27	1.83	12.93	UPW2A2R2MDD
	3.3	9.9	6.600	0.08	58	5	11.0	2.0	0.50	493-1964-ND	.32	2.18	15.40	UPW2A3R3MDD
	4.7	14.1	4.600	0.08	74	5	11.0	2.0	0.50	493-1965-ND	.32	2.18	15.40	UPW2A4R7MDD
	6.8	20.4	3.500	0.08	95	5	11.0	2.0	0.50	493-1966-ND	.32	2.18	15.40	UPW2A6R8MDD
	10	30	1.800	0.08	130	6.3	11.0	2.5	0.50	493-1967-ND	.35	2.59	18.50	UPW2A100MED
	15	45	0.830	0.08	180	8	11.5	3.5	0.60	493-1968-ND	.40	2.94	21.00	UPW2A150MPD
	18	54	0.800	0.08	200	6.3	15.0	2.5	0.50	493-1969-ND	.40	2.94	21.00	UPW2A180MED
	22	66	0.680	0.08	230	8	11.5	3.5	0.60	493-1970-ND	.51	3.75	26.75	UPW2A220MPD

(Continued)

nichicon PW Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated Voltage (VDC)	Cap (µF)	Leakage Current (µA)	Impedance Ω Maximum 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @100KHz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
100	33	99	0.460	0.08	320	10	12.5	5.0	0.60	493-1971-ND	.56	4.13	29.50	UPW2A330MPD
	33	99	0.450	0.08	360	8	15.0	3.5	0.60	493-1972-ND	.56	4.13	29.50	UPW2A330MPD6
	47	141	0.370	0.08	420	10	16.0	5.0	0.60	493-1973-ND	.61	4.54	33.37	UPW2A470MPD
	47	141	0.370	0.08	420	8	20.0	3.5	0.60	493-1974-ND	.61	4.54	33.37	UPW2A470MPD6
	68	204	0.300	0.08	490	10	20.0	5.0	0.60	493-1975-ND	.88	6.56	48.18	UPW2A680MPD
	82	246	0.250	0.08	540	10	25.0	5.0	0.60	493-1976-ND	1.06	7.90	58.05	UPW2A820MPD
	100	300	0.180	0.08	580	12.5	20.0	5.0	0.60	493-1977-ND	1.07	7.94	58.28	UPW2A101MHD
	150	450	0.130	0.08	710	12.5	25.0	5.0	0.60	493-1978-ND	1.37	10.29	77.18	UPW2A151MHD
	180	540	0.120	0.08	790	12.5	31.5	5.0	0.80	493-1979-ND	1.40	10.53	78.98	UPW2A181MHD
	180	540	0.130	0.08	750	16	20.0	7.5	0.80	493-1980-ND	1.40	10.53	78.98	UPW2A181MHD6
	220	660	0.100	0.08	890	16	25.0	7.5	0.80	493-1981-ND	1.49	11.16	83.70	UPW2A221MHD
	220	660	0.110	0.08	850	18	20.0	7.5	0.80	493-1982-ND	1.49	11.16	83.70	UPW2A221MHD6
	330	990	0.090	0.08	1080	16	25.0	7.5	0.80	493-1983-ND	1.98	14.85	111.38	UPW2A331MHD
	390	1170	0.083	0.08	1260	18	25.0	7.5	0.80	493-1984-ND	1.83	13.86	104.60	UPW2A391MHD
	470	1410	0.076	0.08	1310	16	31.5	7.5	0.80	493-1985-ND	1.93	14.60	110.20	UPW2A471MHD
	560	1680	0.068	0.08	1370	18	31.5	7.5	0.80	493-1986-ND	2.25	17.07	128.80	UPW2A561MHD
	680	2040	0.064	0.08	1410	16	35.5	7.5	0.80	493-1987-ND	2.43	18.42	139.00	UPW2A681MHD
	1000	3000	0.047	0.08	1520	18	40.0	7.5	0.80	493-1988-ND	3.65	27.64	208.60	UPW2A102MHD
160	0.47	47.52	—	0.15	12	6.3	11.0	2.5	0.50	493-1989-ND	.35	2.59	18.50	UPW2CR47MED
	1	56	—	0.15	17	6.3	11.0	2.5	0.50	493-1990-ND	.35	2.59	18.50	UPW2C010MED
	2.2	75.2	—	0.15	25	6.3	11.0	2.5	0.50	493-1991-ND	.42	3.08	22.00	UPW2C2R2MED
	3.3	92.8	—	0.15	36	8	11.5	3.5	0.60	493-1992-ND	.54	3.99	28.50	UPW2C3R3MPD
	4.7	115.2	—	0.15	43	8	11.5	3.5	0.60	493-1993-ND	.54	3.99	28.50	UPW2C4R7MPD
	10	200	—	0.15	70	10	12.5	5.0	0.60	493-1994-ND	.59	4.42	32.43	UPW2C100MPD
	22	392	—	0.15	130	10	20.0	5.0	0.60	493-1995-ND	.84	6.27	46.06	UPW2C220MPD
	33	568	—	0.15	180	12.5	20.0	5.0	0.60	493-1996-ND	1.03	7.68	56.40	UPW2C330MHD
	47	792	—	0.15	220	12.5	25.0	5.0	0.60	493-1997-ND	1.13	8.49	63.68	UPW2C470MHD
	100	1640	—	0.15	330	16	25.0	7.5	0.80	493-1998-ND	1.67	12.51	93.83	UPW2C101MHD
	220	3560	—	0.15	500	18	35.5	7.5	0.80	493-1999-ND	2.68	20.33	153.40	UPW2C221MHD
	220	3560	—	0.15	500	20	31.0	10.0	1.00	493-2000-ND	2.68	20.33	153.40	UPW2C221MRD6
	330	5320	—	0.15	900	20	40.0	10.0	1.00	493-2001-ND	3.52	26.69	201.40	UPW2C331MRD
	470	7560	—	0.15	1200	22	50.0	10.0	1.00	493-2002-ND	5.31	40.20	303.40	UPW2C471MRD
200	0.47	49.4	—	0.15	12	6.3	11.0	2.5	0.50	493-2003-ND	.39	2.87	20.50	UPW2DR47MED
	1	60	—	0.15	17	6.3	11.0	2.5	0.50	493-2004-ND	.39	2.87	20.50	UPW2D010MED
	2.2	84	—	0.15	25	6.3	11.0	2.5	0.50	493-2005-ND	.50	3.71	26.50	UPW2D2R2MED
	3.3	106	—	0.15	36	8	11.5	3.5	0.60	493-2006-ND	.54	3.99	28.50	UPW2D3R3MPD
	4.7	134	—	0.15	50	10	12.5	5.0	0.60	493-2007-ND	.58	4.31	30.75	UPW2D4R7MPD
	10	240	—	0.15	80	10	16.0	5.0	0.60	493-2008-ND	.66	4.93	36.19	UPW2D100MPD
	22	480	—	0.15	140	10	20.0	5.0	0.60	493-2009-ND	1.03	7.68	56.40	UPW2D220MPD
	33	700	—	0.15	190	12.5	25.0	5.0	0.60	493-2010-ND	1.13	8.49	63.68	UPW2D330MHD
	47	980	—	0.15	220	12.5	25.0	5.0	0.60	493-2011-ND	1.20	8.97	67.28	UPW2D470MHD
	100	2040	—	0.15	335	16	31.5	7.5	0.80	493-2012-ND	2.33	17.62	133.00	UPW2D101MHD
	220	4440	—	0.15	515	18	40.0	7.5	0.80	493-2013-ND	3.23	24.49	184.80	UPW2D221MHD
	220	4440	—	0.15	515	20	35.0	10.0	1.00	493-2014-ND	3.23	24.49	184.80	UPW2D221MRD6
	330	6640	—	0.15	1100	22	40.0	10.0	1.00	493-2015-ND	5.59	42.32	319.40	UPW2D331MRD
	470	9440	—	0.15	1310	22	50.0	10.0	1.00	493-2016-ND	6.87	52.02	392.60	UPW2D471MRD
250	0.47	51.75	—	0.15	12	6.3	11.0	2.5	0.50	493-2017-ND	.42	3.08	22.00	UPW2ER47MED
	1	65	—	0.15	17	6.3	11.0	2.5	0.50	493-2018-ND	.42	3.08	22.00	UPW2E010MED
	2.2	95	—	0.15	29	8	11.5	3.5	0.60	493-2019-ND	.54	3.99	28.50	UPW2E2R2MPD
	3.3	122.5	—	0.15	42	10	12.5	5.0	0.60	493-2020-ND	.57	4.20	30.00	UPW2E3R3MPD
	4.7	157.5	—	0.15	50	10	12.5	5.0	0.60	493-2021-ND	.58	4.35	31.96	UPW2E4R7MPD
	10	290	—	0.15	88	10	20.0	5.0	0.60	493-2022-ND	.84	6.27	46.06	UPW2E100MPD
	22	590	—	0.15	155	12.5	25.0	5.0	0.60	493-2023-ND	1.03	7.68	56.40	UPW2E220MHD
	33	865	—	0.15	190	12.5	25.0	5.0	0.60	493-2024-ND	1.13	8.49	63.68	UPW2E330MHD
	47	1215	—	0.15	230	16	25.0	7.5	0.80	493-2025-ND	1.67	12.51	93.83	UPW2E470MHD
	100	2540	—	0.15	340	18	35.5	7.5	0.80	493-2026-ND	2.68	20.33	153.40	UPW2E101MHD
	100	2540	—	0.15	340	20	31.0	10.0	1.00	493-2027-ND	2.68	20.33	153.40	UPW2E101MRD6
	220	5540	—	0.15	525	20	40.0	10.0	1.00	493-2028-ND	3.67	27.80	209.80	UPW2E221MRD
	330	8290	—	0.15	1150	22	50.0	10.0	1.00	493-2029-ND	6.59	49.87	376.40	UPW2E331MRD
	470	11790	—	0.15	1350	25	50.0	12.5	1.00	493-2030-ND	8.48	64.24	484.80	UPW2E471MRD
315	0.47	54.805	—	0.2	11	8	11.5	3.5	0.60	493-2031-ND	.50	3.71	26.50	UPW2FR47MPD
	1	71.5	—	0.2	16	8	11.5	3.5	0.60	493-2032-ND	.50	3.71	26.50	UPW2F010MPD
	2.2	109.3	—	0.2	28	10	12.5	5.0	0.60	493-2033-ND	.57	4.20	30.00	UPW2F2R2MPD
	3.3	143.95	—	0.2	34	10	12.5	5.0	0.60	493-2034-ND	.60	4.45	31.75	UPW2F3R3MPD
	4.7	188.05	—	0.2	45	10	16.0	5.0	0.60	493-2035-ND	.71	5.28	38.78	UPW2F4R7MPD
	10	355	—	0.2	72	10	20.0	5.0	0.60	493-2036-ND	.86	6.37	46.77	UPW2F100MPD
	22	733	—	0.2	120	12.5	25.0	5.0	0.60	493-2037-ND	1.00	7.53	56.48	UPW2F220MHD
	33	1079.5	—	0.2	155	16	25.0	7.5	0.80	493-2038-ND	1.75	13.14	98.55	UPW2F330MHD
	47	1520.5	—	0.2	190	16	35.5	7.5	0.80	493-2039-ND	2.33	17.62	133.00	UPW2F470MHD
	100	3190	—	0.2	285	18	40.0	7.5	0.80	493-2040-ND	3.13	23.72	179.00	UPW2F101MHD
	100	3190	—	0.2	285	20	35.0	10.0	1.00	493-2041-ND	3.13	23.72	179.00	UPW2F101MRD6
	220	6970	—	0.2	540	22	50.0	10.0	1.00	493-2042-ND	7.65	57.90	437.00	UPW2F221MRD
350	0.47	56.45	—	0.2	11	8	11.5	3.5	0.60	493-2043-ND	.51	3.75	26.75	UPW2VR47MPD
	1	75	—	0.2	17	10	12.5	5.0	0.60	493-2044-ND	.57	4.20	30.00	UPW2V010MPD
	2.2	117	—	0.2	31	10	16.0	5.0	0.60	493-2045-ND	.56	4.16	30.55	UPW2V2R2MPD
	3.3	155.5	—	0.2	38	10	16.0	5.0	0.60	493-2046-ND	.66	4.93	36.19	UPW2V3R3MPD
	4.7	204.5	—	0.2	49	10	20.0	5.0	0.60	493-2047-ND	.78	5.79	42.54	UPW2V4R7MPD
	10	390	—	0.2	82	12.5	20.0	5.0	0.60	493-2048-ND	1.03	7.71	57.83	UPW2V100MHD
	22	810	—	0.2	130	16	25.0	7.5	0.80	493-2049-ND	1.67	12.51	93.83	UPW2V220MHD
	33	1195	—	0.2	160	16	31.5	7.5	0.80	493-2050-ND	1.80	13.65	103.00	UPW2V330MHD
	47	1685	—	0.2	200	18	35.5	7.5	0.80	493-2051-ND	2.68	20.33	153.40	UPW2V470MHD
	47	1685	—	0.2	200	20	31.0	10.0	1.00	493-2052-ND	2.68	20.33	153.40	UPW2V470MRD6
	100	3540	—	0.2	290	20	40.0	10.0	1.00	493-2053-ND	3.67	27.80	209.80	UPW2V101MRD
	220	7740	—	0.2	550	25	50.0	12.5	1.00	493-2054-ND	8.88	67.23	507.40	UPW2V221MRD
400	1	80	—	0.25	16	10	12.5	5.0	0.60	493-2055-ND	.57	4.26	31.26	UPW2G010MPD
	2.2	128	—	0.25	27	10	16.0	5.0	0.60	493-2056-ND	.68	5.02	36.90	UPW2G2R2MPD
	3.3	172	—	0.25	36	10	20.0	5.0	0.60	493-2057-ND	.78	5.79	42.54	UPW2G3R3MPD
	4.7	228	—	0.25	43	10	20.0	5.0	0.60	493-2058-ND	1.03	7.68	56.40	UPW2G4R7MPD
	10	440	—	0.25	72	12.5	25.0	5.0	0.60	493-2059-ND	1.13	8.49	63.68	UPW2G100MHD
	22	920	—	0.25	110	16	25.0	7.5	0.80	493-2060-ND	1.94	14.58	109.35	UPW2G220MHD
	33	1360	—	0.25	140	16	31.5	7.5	0.80	493-2061-ND	2.33	17.62	133.00	UPW2G330MHD
	47	1920	—	0.25	170	18	35.5	7.5	0.80	493-2062-ND	3.12	23.64	178.40	UPW2G470MHD
	47	1920	—	0.25	170	20	31.0	10.0	1.00	493-2063-ND	3.12	23.64	178.40	UPW2G470MRD6
	100	4040	—	0.25	350	22	50.0	10.0	1.00	493-2064-ND	5.76	43.59	329.00	UPW2G101MRD
450	1	85	—	0.25	18	10	12.5	5.0	0.60	493-2065-ND	.58	4.32	31.73	UPW2W010MPD
	2.2	139	—	0.25	29	10	20.0	5.0	0.60	493-2066-ND	.78	5.79	42.54	UPW2W2R2MPD
	3.3	188.5	—	0.25	41	12.5	20.0	5.0	0.60	493-2067-ND	1.03	7.68	56.40	UPW2W3R3MHD
	4.7	251.5	—	0.25	49	12.5	20.0	5.0	0.60	493-2068-ND	1.08	8.07	60.53	UPW2W4R7MHD
	10	490	—	0.25	75	16	25.0	7.5	0.80	493-2069-ND	1.67	12.51	93.83	UPW2W100MHD
	22	1030	—	0.25	115	16	31.5	7.5	0.80	493-2070-ND	2.02	15.29	115.40	UPW2W220MHD
	33	1525	—	0.25	145	18	35.5	7.5	0.80	493-2071-ND	3.12	23.64	178.40	UPW2W330MHD
	33	1525	—	0.25	145	20	31.0	10.0	1.00	493-2072-ND	3.12	23.64	178.40	UPW2W330MRD6
	47	2155	—	0.25	175	20	40.0	10.0	1.00	493-2073-ND	3.67	27.80	209.80	UPW2W470MRD
	100	4540	—	0.25	350	25	50.0	12.5	1.00	493-2074-ND	7.82	59.20	446.80	UPW2W101MRD

nichicon HE Series Aluminum Electrolytic Capacitors (Radial Lead)

Extremely Low Impedance, High Reliability 105°C

RoHS COMPLIANT Pb

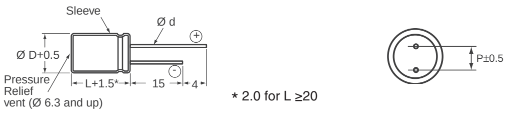

* 2.0 for L ≥20

FEATURES: • Miniature sized • Extremely low impedance • High reliability and long life withstanding 4,000 hours to 10,000 hours.

SPECIFICATIONS:

Temperature Range	-40°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C

- **Leakage Current:** After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.
- **tan δ:** For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. Measurement frequency: 120Hz, Temperature: 20°C.

Rated Voltage (V)	6.3	10	16	25	35	50	63	100
tan δ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

- **Stability at Low Temperature:** Measurement frequency: 120Hz

Rated Voltage (V)		6.3	10	16	25	35	50	63	100
Impedance ratio	Z-20°C / Z+20°C	4	3	2	2	2	2	2	2
ZT / Z20 (Max.)	Z-40°C / Z+20°C	8	6	4	3	3	3	3	3

- **Endurance:** After an application of D.C bias voltage plus the rated ripple current for stated hours in the below chart at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors shall meet the following requirements.

Case Size		ϕD ≤ 6.3	ϕD = 8,10	ϕD ≥ 12.5
Rated Voltage (V)	6.3 to 10WV	4,000 hours	6,000 hours	8,000 hours
	16 to 100WV	5,000 hours	7,000 hours	10,000 hours
Capacitance Change	Within ±25% of initial value			
tan δ	200% or less of initial specified value			
Leakage Current	Initial specified value or less			

- **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.
- **Marking:** Printed with white color letter on black sleeve.

Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	Impedance ohms (Ω) Max. @ 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @ 100KHz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
6.3	150	9.45	0.58	0.22	210	5.0	11.0	2.0	0.5	493-1463-ND	.23	1.56	11.00	UHE0J151MDD
	330	20.79	0.22	0.22	340	6.3	11.0	2.5	0.5	493-1464-ND	.30	2.03	14.30	UHE0J331MED
	680	42.84	0.13	0.22	640	8.0	11.5	3.5	0.6	493-1465-ND	.38	2.80	20.00	UHE0J681MPD
	820	51.66	0.080	0.22	865	10.0	12.5	5.0	0.6	493-1466-ND	.39	2.91	20.75	UHE0J821MPD
	1000	63	0.087	0.22	840	8.0	15.0	3.5	0.6	493-1467-ND	.34	2.30	16.23	UHE0J102MPD
	1200	75.6	0.069	0.22	1050	8.0	20.0	3.5	0.6	493-1468-ND	.48	3.50	25.00	UHE0J122MPD
	1200	75.6	0.060	0.22	1210	10.0	16.0	5.0	0.6	493-1469-ND	.48	3.50	25.00	UHE0J122MPD6
	1500	94.5	0.046	0.22	1400	10.0	20.0	5.0	0.6	493-1470-ND	.52	3.82	27.25	UHE0J152MPD
	1800	113.4	0.049	0.22	1450	12.5	15.0	5.0	0.6	493-1471-ND	.56	4.10	29.25	UHE0J182MHD
	2200	138.6	0.042	0.24	1650	10.0	25.0	5.0	0.6	493-1472-ND	.61	4.51	33.14	UHE0J222MPD
	2700	170.1	0.031	0.24	1910	10.0	31.5	5.0	0.6	493-1473-ND	.79	5.86	43.01	UHE0J272MPD6
	2700	170.1	0.042	0.24	1940	16.0	15.0	7.5	0.8	493-1474-ND	.79	5.86	43.01	UHE0J272MHD
	3300	207.9	0.035	0.26	1900	12.5	20.0	5.0	0.6	493-1475-ND	.81	6.02	44.18	UHE0J332MHD
	3900	245.7	0.027	0.26	2230	12.5	25.0	5.0	0.6	493-1476-ND	.96	7.14	52.41	UHE0J392MHD
	3900	245.7	0.043	0.26	2210	18.0	15.0	7.5	0.8	493-1477-ND	.96	7.14	52.41	UHE0J392MHD6
	4700	296.1	0.024	0.28	2650	12.5	31.5	5.0	0.8	493-1478-ND	.98	7.30	53.58	UHE0J472MHD
	5600	352.8	0.020	0.3	2880	12.5	35.5	5.0	0.8	493-1479-ND	1.15	8.64	64.80	UHE0J562MHD
	5600	352.8	0.027	0.3	2530	16.0	20.0	7.5	0.8	493-1480-ND	1.15	8.64	64.80	UHE0J562MHD6
	6800	428.4	0.017	0.32	3350	12.5	40.0	5.0	0.8	493-1481-ND	1.17	8.76	65.70	UHE0J682MHD
	6800	428.4	0.021	0.32	2930	16.0	25.0	7.5	0.8	493-1482-ND	1.17	8.76	65.70	UHE0J682MHD6
	6800	428.4	0.026	0.32	2860	18.0	20.0	7.5	0.8	493-1483-ND	1.17	8.76	65.70	UHE0J682MHD3
	8200	516.6	0.017	0.36	3450	16.0	31.5	7.5	0.8	493-1484-ND	1.70	12.75	95.63	UHE0J822MHD
	10000	630	0.015	0.4	3610	16.0	35.5	7.5	0.8	493-1485-ND	1.70	12.75	95.63	UHE0J103MHD
	10000	630	0.019	0.4	3140	18.0	25.0	7.5	0.8	493-1486-ND	1.70	12.75	95.63	UHE0J103MHD6
	12000	756	0.013	0.44	4080	16.0	40.0	7.5	0.8	493-1487-ND	1.99	14.91	111.83	UHE0J123MHD
	12000	756	0.015	0.44	4170	18.0	31.5	7.5	0.8	493-1488-ND	1.99	14.91	111.83	UHE0J123MHD6
	15000	945	0.014	0.5	4220	18.0	35.5	7.5	0.8	493-1489-ND	1.84	13.91	105.00	UHE0J153MHD
	18000	1134	0.012	0.56	4280	18.0	40.0	7.5	0.8	493-1490-ND	1.94	14.71	111.00	UHE0J183MHD
10	100	10	0.58	0.19	210	5.0	11.0	2.0	0.5	493-1491-ND	.21	1.40	9.90	UHE1A101MDD
	220	22	0.22	0.19	340	6.3	11.0	2.5	0.5	493-1492-ND	.32	2.15	15.13	UHE1A221MED
	470	47	0.13	0.19	640	8.0	11.5	3.5	0.6	493-1493-ND	.38	2.80	20.00	UHE1A471MPD
	680	68	0.087	0.19	840	8.0	15.0	3.5	0.6	493-1494-ND	.39	2.91	20.75	UHE1A681MPD
	680	68	0.080	0.19	865	10.0	12.5	5.0	0.6	493-1495-ND	.39	2.91	20.75	UHE1A681MPD6
	1000	100	0.069	0.19	1050	8.0	20.0	3.5	0.6	493-1496-ND	.52	3.85	27.50	UHE1A102MPD
	1000	100	0.060	0.19	1210	10.0	16.0	5.0	0.6	493-1497-ND	.52	3.85	27.50	UHE1A102MPD6
	1200	120	0.046	0.19	1400	10.0	20.0	5.0	0.6	493-1498-ND	.60	4.41	31.50	UHE1A122MPD
	1500	150	0.042	0.19	1650	10.0	25.0	5.0	0.6	493-1499-ND	.56	4.19	30.79	UHE1A152MPD
	1500	150	0.049	0.19	1450	12.5	15.0	5.0	0.6	493-1500-ND	.56	4.19	30.79	UHE1A152MHD6
	2200	220	0.031	0.21	1910	10.0	31.5	5.0	0.6	493-1501-ND	.79	5.86	43.01	UHE1A222MPD
	2200	220	0.035	0.21	1900	12.5	20.0	5.0	0.6	493-1502-ND	.79	5.86	43.01	UHE1A222MHD6
	2200	220	0.042	0.21	1940	16.0	15.0	7.5	0.8	493-1503-ND	.79	5.86	43.01	UHE1A222MHD3
	2700	270	0.043	0.21	2210	18.0	15.0	7.5	0.8	493-1504-ND	.88	6.56	48.18	UHE1A272MHD
	3300	330	0.027	0.23	2230	12.5	25.0	5.0	0.6	493-1505-ND	.96	7.14	52.41	UHE1A332MHD
	3900	390	0.024	0.23	2650	12.5	31.5	5.0	0.8	493-1506-ND	1.15	8.64	64.80	UHE1A392MHD
	3900	390	0.027	0.23	2530	16.0	20.0	7.5	0.8	493-1507-ND	1.15	8.64	64.80	UHE1A392MHD6
	4700	470	0.020	0.25	2880	12.5	35.5	5.0	0.8	493-1508-ND	1.15	8.64	64.80	UHE1A472MHD
	5600	560	0.017	0.27	3350	12.5	40.0	5.0	0.8	493-1509-ND	1.62	12.12	90.90	UHE1A562MHD
	5600	560	0.021	0.27	2930	16.0	25.0	7.5	0.8	493-1510-ND	1.62	12.12	90.90	UHE1A562MHD6
	5600	560	0.026	0.27	2860	18.0	20.0	7.5	0.8	493-1511-ND	1.62	12.12	90.90	UHE1A562MHD3
	6800	680	0.017	0.29	3450	16.0	31.5	7.5	0.8	493-1512-ND	1.70	12.75	95.63	UHE1A682MHD
	6800	680	0.019	0.29	3140	18.0	25.0	7.5	0.8	493-1513-ND	1.70	12.75	95.63	UHE1A682MHD6
	8200	820	0.015	0.33	3610	16.0	35.5	7.5	0.8	493-1514-ND	1.99	14.91	111.83	UHE1A822MHD
	8200	820	0.015	0.33	4170	18.0	31.5	7.5	0.8	493-1515-ND	1.99	14.91	111.83	UHE1A822MHD6
	10000	1000	0.013	0.37	4080	16.0	40.0	7.5	0.8	493-1516-ND	1.83	13.83	104.40	UHE1A103MHD
	10000	1000	0.014	0.37	4220	18.0	35.5	7.5	0.8	493-1517-ND	1.83	13.83	104.40	UHE1A103MHD6
	12000	1200	0.012	0.41	4280	18.0	40.0	7.5	0.8	493-1518-ND	1.93	14.60	110.20	UHE1A123MHD
16	56	8.96	0.58	0.16	210	5.0	11.0	2.0	0.5	493-1519-ND	.26	1.76	12.38	UHE1C560MDD
	120	19.2	0.22	0.16	340	6.3	11.0	2.5	0.5	493-1520-ND	.26	1.76	12.38	UHE1C121MED
	330	52.8	0.13	0.16	640	8.0	11.5	3.5	0.6	493-1521-ND	.39	2.91	20.75	UHE1C331MPD

(Continued)

Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	Impedance ohms (Ω) Max. @ 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @ 100KHz/105°C (mA) rms	Dimensions (mm) ØD	L	P	ød	Digi-Key Part No.	Pricing 1	10	100	Nichicon Part No.
16	470	75.2	0.087	0.16	840	8.0	15.0	3.5	0.6	493-1522-ND	.41	3.01	21.50	UHE1C471MPD
	470	75.2	0.080	0.16	865	10.0	12.5	5.0	0.6	493-1523-ND	.41	3.01	21.50	UHE1C471MPD6
	680	108.8	0.069	0.16	1050	8.0	20.0	3.5	0.6	493-1524-ND	.60	4.41	31.50	UHE1C681MPD
	680	108.8	0.060	0.16	1210	10.0	16.0	5.0	0.6	493-1525-ND	.60	4.41	31.50	UHE1C681MPD6
	1000	160	0.046	0.16	1400	10.0	20.0	5.0	0.6	493-1526-ND	.61	4.51	33.14	UHE1C102MPD
	1000	160	0.049	0.16	1450	12.5	15.0	5.0	0.6	493-1527-ND	.61	4.51	33.14	UHE1C102MHD6
	1200	192	0.042	0.16	1650	10.0	25.0	5.0	0.6	493-1528-ND	.56	4.19	30.79	UHE1C122MPD
	1500	240	0.031	0.16	1910	10.0	31.5	5.0	0.6	493-1529-ND	.82	6.11	44.89	UHE1C152MPD
	1500	240	0.035	0.16	1900	12.5	20.0	5.0	0.6	493-1530-ND	.82	6.11	44.89	UHE1C152MHD6
	1500	240	0.042	0.16	1940	16.0	15.0	7.5	0.8	493-1531-ND	.82	6.11	44.89	UHE1C152MHD3
	2200	352	0.027	0.18	2230	12.5	25.0	5.0	0.6	493-1532-ND	.99	7.39	54.29	UHE1C222MHD
	2200	352	0.043	0.18	2210	18.0	15.0	7.5	0.8	493-1533-ND	.99	7.39	54.29	UHE1C222MHD6
	2700	432	0.024	0.18	2650	12.5	31.5	5.0	0.8	493-1534-ND	1.15	8.64	64.80	UHE1C272MHD
	2700	432	0.027	0.18	2530	16.0	20.0	7.5	0.8	493-1535-ND	1.15	8.64	64.80	UHE1C272MHD6
	3300	528	0.020	0.20	2880	12.5	35.5	5.0	0.8	493-1536-ND	1.20	9.00	67.50	UHE1C332MHD
	3900	624	0.017	0.20	3350	12.5	40.0	5.0	0.8	493-1537-ND	1.20	9.00	67.50	UHE1C392MHD
	3900	624	0.021	0.20	2930	16.0	25.0	7.5	0.8	493-1538-ND	1.20	9.00	67.50	UHE1C392MHD6
	3900	624	0.026	0.20	2860	16.0	20.0	7.5	0.8	493-1539-ND	1.20	9.00	67.50	UHE1C392MHD3
	4700	752	0.017	0.22	3450	16.0	31.5	7.5	0.8	493-1540-ND	1.62	12.12	90.90	UHE1C472MHD
	4700	752	0.019	0.22	3140	18.0	25.0	7.5	0.8	493-1541-ND	1.62	12.12	90.90	UHE1C472MHD6
	5600	896	0.015	0.24	3610	16.0	35.5	7.5	0.8	493-1542-ND	1.99	14.91	111.83	UHE1C562MHD
	5600	896	0.015	0.24	4170	18.0	31.5	7.5	0.8	493-1543-ND	1.99	14.91	111.83	UHE1C562MHD6
	6800	1088	0.013	0.26	4080	16.0	40.0	7.5	0.8	493-1544-ND	1.83	13.83	104.40	UHE1C682MHD
	8200	1312	0.014	0.30	4220	18.0	35.5	7.5	0.8	493-1545-ND	1.83	13.83	104.40	UHE1C822MHD
	10000	1600	0.012	0.34	4280	18.0	40.0	7.5	0.8	493-1546-ND	2.22	16.83	127.00	UHE1C103MHD
25	47	11.75	0.58	0.14	210	5.0	11.0	2.0	0.5	493-1547-ND	.26	1.76	12.38	UHE1E470MDD
	100	25	0.22	0.14	340	6.3	11.0	2.5	0.5	493-1548-ND	.33	2.26	15.95	UHE1E101MED
	220	55	0.13	0.14	640	8.0	11.5	3.5	0.6	493-1549-ND	.39	2.91	20.75	UHE1E221MPD
	330	82.5	0.087	0.14	840	8.0	15.0	3.5	0.6	493-1550-ND	.37	2.73	19.50	UHE1E331MPD
	330	82.5	0.080	0.14	865	10.0	12.5	5.0	0.6	493-1551-ND	.37	2.73	19.50	UHE1E331MPD6
	470	117.5	0.069	0.14	1050	8.0	20.0	3.5	0.6	493-1552-ND	.60	4.41	31.50	UHE1E471MPD
	470	117.5	0.06	0.14	1210	10.0	16.0	5.0	0.6	493-1553-ND	.60	4.41	31.50	UHE1E471MPD6
	680	170	0.046	0.14	1400	10.0	20.0	5.0	0.6	493-1554-ND	.63	4.67	34.31	UHE1E681MPD
	680	170	0.049	0.14	1450	12.5	15.0	5.0	0.6	493-1555-ND	.63	4.67	34.31	UHE1E681MHD6
	820	205	0.042	0.14	1650	10.0	25.0	5.0	0.6	493-1556-ND	.64	4.74	34.78	UHE1E821MPD
	1000	250	0.031	0.14	1910	10.0	31.5	5.0	0.6	493-1557-ND	.81	6.05	44.42	UHE1E102MPD
	1000	250	0.035	0.14	1900	12.5	20.0	5.0	0.6	493-1558-ND	.81	6.05	44.42	UHE1E102MHD6
	1000	250	0.042	0.14	1940	16.0	15.0	7.5	0.8	493-1559-ND	.81	6.05	44.42	UHE1E102MHD3
	1200	300	0.043	0.14	2210	18.0	15.0	7.5	0.8	493-1560-ND	.92	6.82	50.06	UHE1E122MHD
	1500	375	0.027	0.14	2230	12.5	25.0	5.0	0.6	493-1561-ND	.99	7.39	54.29	UHE1E152MHD
	1800	450	0.024	0.14	2650	12.5	31.5	5.0	0.8	493-1562-ND	1.15	8.64	64.80	UHE1E182MHD
	1800	450	0.027	0.14	2530	16.0	20.0	7.5	0.8	493-1563-ND	1.15	8.64	64.80	UHE1E182MHD6
	2200	550	0.020	0.16	2880	12.5	35.5	5.0	0.8	493-1564-ND	1.20	9.00	67.50	UHE1E222MHD
	2200	550	0.026	0.16	2860	18.0	20.0	7.5	0.8	493-1565-ND	1.20	9.00	67.50	UHE1E222MHD6
	2700	675	0.017	0.16	3350	12.5	40.0	5.0	0.8	493-1566-ND	1.24	9.27	69.53	UHE1E272MHD
	2700	675	0.021	0.16	2930	16.0	25.0	7.5	0.8	493-1567-ND	1.24	9.27	69.53	UHE1E272MHD6
	3300	825	0.017	0.18	3450	16.0	31.5	7.5	0.8	493-1568-ND	1.63	12.21	91.58	UHE1E332MHD
	3300	825	0.019	0.18	3140	18.0	25.0	7.5	0.8	493-1569-ND	1.63	12.21	91.58	UHE1E332MHD6
	3900	975	0.015	0.18	3610	16.0	35.5	7.5	0.8	493-1570-ND	1.99	14.91	111.83	UHE1E392MHD
	3900	975	0.015	0.18	4170	18.0	31.5	7.5	0.8	493-1571-ND	1.99	14.91	111.83	UHE1E392MHD6
	4700	1175	0.013	0.20	4080	16.0	40.0	7.5	0.8	493-1572-ND	1.99	14.91	111.83	UHE1E472MHD
	4700	1175	0.014	0.20	4220	18.0	35.5	7.5	0.8	493-1573-ND	1.99	14.91	111.83	UHE1E472MHD6
	5600	1400	0.012	0.22	4280	18.0	40.0	7.5	0.8	493-1574-ND	2.22	16.83	127.00	UHE1E562MHD
35	33	11.55	0.58	0.12	210	5.0	11.0	2.0	0.5	493-1575-ND	.26	1.76	12.38	UHE1V330MDD
	56	19.6	0.22	0.12	340	6.3	11.0	2.5	0.5	493-1576-ND	.33	2.22	15.68	UHE1V560MED
	150	52.5	0.13	0.12	640	8.0	11.5	3.5	0.6	493-1577-ND	.37	2.54	17.88	UHE1V151MPD
	220	77	0.087	0.12	840	8.0	15.0	3.5	0.6	493-1578-ND	.43	3.19	22.75	UHE1V221MPD
	220	77	0.080	0.12	865	10.0	12.5	5.0	0.6	493-1579-ND	.43	3.19	22.75	UHE1V221MPD6
	270	94.5	0.069	0.12	1050	8.0	20.0	3.5	0.6	493-1580-ND	.60	4.41	31.50	UHE1V271MPD
	330	115.5	0.060	0.12	1210	10.0	16.0	5.0	0.6	493-1581-ND	.60	4.41	31.50	UHE1V331MPD
	470	164.5	0.046	0.12	1400	10.0	20.0	5.0	0.6	493-1582-ND	.63	4.67	34.31	UHE1V471MPD
	470	164.5	0.049	0.12	1450	12.5	15.0	5.0	0.6	493-1583-ND	.63	4.67	34.31	UHE1V471MHD6
	560	196	0.042	0.12	1650	10.0	25.0	5.0	0.6	493-1584-ND	.64	4.74	34.78	UHE1V561MPD
	680	238	0.031	0.12	1910	10.0	31.5	5.0	0.6	493-1585-ND	.81	6.05	44.42	UHE1V681MPD
	680	238	0.035	0.12	1900	12.5	20.0	5.0	0.6	493-1586-ND	.81	6.05	44.42	UHE1V681MHD6
	680	238	0.042	0.12	1940	16.0	15.0	7.5	0.8	493-1587-ND	.81	6.05	44.42	UHE1V681MHD3
	1000	350	0.027	0.12	2230	12.5	25.0	5.0	0.6	493-1588-ND	.99	7.39	54.29	UHE1V102MHD
	1000	350	0.043	0.12	2210	18.0	15.0	7.5	0.8	493-1589-ND	.99	7.39	54.29	UHE1V102MHD6
	1200	420	0.024	0.12	2650	12.5	31.5	5.0	0.8	493-1590-ND	1.15	8.64	64.80	UHE1V122MHD
	1200	420	0.027	0.12	2530	16.0	20.0	7.5	0.8	493-1591-ND	1.15	8.64	64.80	UHE1V122MHD6
	1500	525	0.020	0.12	2880	12.5	35.5	5.0	0.8	493-1592-ND	1.20	9.00	67.50	UHE1V152MHD
	1800	630	0.017	0.12	3350	12.5	40.0	5.0	0.8	493-1593-ND	1.20	9.00	67.50	UHE1V182MHD
	1800	630	0.021	0.12	2930	16.0	25.0	7.5	0.8	493-1594-ND	1.20	9.00	67.50	UHE1V182MHD6
	1800	630	0.026	0.12	2860	18.0	20.0	7.5	0.8	493-1595-ND	1.20	9.00	67.50	UHE1V182MHD3
	2200	770	0.017	0.14	3450	16.0	31.5	7.5	0.8	493-1596-ND	1.63	12.21	91.58	UHE1V222MHD
	2200	770	0.019	0.14	3140	18.0	25.0	7.5	0.8	493-1597-ND	1.63	12.21	91.58	UHE1V222MHD6
	2700	945	0.015	0.14	3610	16.0	35.5	7.5	0.8	493-1598-ND	1.99	14.91	111.83	UHE1V272MHD
	2700	945	0.015	0.14	4170	18.0	31.5	7.5	0.8	493-1599-ND	1.99	14.91	111.83	UHE1V272MHD6
	3300	1155	0.013	0.16	4080	16.0	40.0	7.5	0.8	493-1600-ND	1.99	14.91	111.83	UHE1V332MHD
	3300	1155	0.014	0.16	4220	18.0	35.5	7.5	0.8	493-1601-ND	1.99	14.91	111.83	UHE1V332MHD6
	3900	1365	0.012	0.16	4280	18.0	40.0	7.5	0.8	493-1602-ND	2.25	17.01	128.40	UHE1V392MHD

(Continued)

Rated Voltage (VDC)	Cap. (µF)	Leakage Current (µA)	Impedance ohms (Ω) Max. @ 20°C/100KHz	tan δ (Maximum) @120Hz/20°C	Rated Ripple Cur. @ 100KHz/105°C (mA) rms	Dimensions (mm)				Digi-Key Part No.	Pricing			Nichicon Part No.
						ØD	L	P	ød		1	10	100	
50	22	11	0.70	0.1	180	5.0	11.0	2.0	0.5	493-1603-ND	.26	1.76	12.38	UHE1H220MDD
	56	28	0.30	0.1	295	6.3	11.0	2.5	0.5	493-1604-ND	.33	2.26	15.95	UHE1H560MED
	100	50	0.17	0.1	555	8.0	11.5	3.5	0.6	493-1605-ND	.39	2.91	20.75	UHE1H101MPD
	120	60	0.12	0.1	730	8.0	15.0	3.5	0.6	493-1606-ND	.43	3.15	22.50	UHE1H121MPD
	150	75	0.12	0.1	760	10.0	12.5	5.0	0.6	493-1607-ND	.43	3.15	22.50	UHE1H151MPD
	180	90	0.091	0.1	910	8.0	20.0	3.5	0.6	493-1608-ND	.48	3.57	25.50	UHE1H181MPD
	220	110	0.084	0.1	1050	10.0	16.0	5.0	0.6	493-1609-ND	.52	3.82	27.25	UHE1H221MPD
	270	135	0.060	0.1	1220	10.0	20.0	5.0	0.6	493-1610-ND	.63	4.67	34.31	UHE1H271MPD
	270	135	0.061	0.1	1260	12.5	15.0	5.0	0.6	493-1611-ND	.63	4.67	34.31	UHE1H271MHD6
	330	165	0.055	0.1	1440	10.0	25.0	5.0	0.6	493-1612-ND	.64	4.74	34.78	UHE1H331MPD
	470	235	0.043	0.1	1690	10.0	31.5	5.0	0.6	493-1613-ND	.83	6.18	45.36	UHE1H471MPD
	470	235	0.045	0.1	1660	12.5	20.0	5.0	0.6	493-1614-ND	.83	6.18	45.36	UHE1H471MHD6
	470	235	0.055	0.1	1690	16.0	15.0	7.5	0.8	493-1615-ND	.83	6.18	45.36	UHE1H471MHD3
	560	280	0.034	0.1	1950	12.5	25.0	5.0	0.6	493-1616-ND	.99	7.39	54.29	UHE1H561MHD
	560	280	0.054	0.1	1930	18.0	15.0	7.5	0.8	493-1617-ND	.99	7.39	54.29	UHE1H561MHD6
	680	340	0.030	0.1	2310	12.5	31.5	5.0	0.8	493-1618-ND	1.02	7.62	55.93	UHE1H681MHD
	820	410	0.025	0.1	2510	12.5	35.5	5.0	0.8	493-1619-ND	1.15	8.64	64.80	UHE1H821MHD
	820	410	0.034	0.1	2210	16.0	20.0	7.5	0.8	493-1620-ND	1.15	8.64	64.80	UHE1H821MHD6
	1000	500	0.021	0.1	2920	12.5	40.0	5.0	0.8	493-1621-ND	1.15	8.64	64.80	UHE1H102MHD
	1000	500	0.025	0.1	2555	16.0	25.0	7.5	0.8	493-1622-ND	1.15	8.64	64.80	UHE1H102MHD6
	1000	500	0.036	0.1	2490	18.0	20.0	7.5	0.8	493-1623-ND	1.15	8.64	64.80	UHE1H102MHD3
	1200	600	0.022	0.1	3010	16.0	31.5	7.5	0.8	493-1624-ND	1.62	12.12	90.90	UHE1H122MHD
	1200	600	0.026	0.1	2740	18.0	25.0	7.5	0.8	493-1625-ND	1.62	12.12	90.90	UHE1H122MHD6
	1500	750	0.019	0.1	3150	16.0	35.5	7.5	0.8	493-1626-ND	1.70	12.75	95.63	UHE1H152MHD
	1800	900	0.016	0.1	3710	16.0	40.0	7.5	0.8	493-1627-ND	1.83	13.83	104.40	UHE1H182MHD
	1800	900	0.021	0.1	3635	18.0	31.5	7.5	0.8	493-1628-ND	1.83	13.83	104.40	UHE1H182MHD6
	2200	1100	0.017	0.12	3680	18.0	35.5	7.5	0.8	493-1629-ND	1.88	14.20	107.20	UHE1H222MHD6
	2700	1350	0.014	0.12	3800	18.0	40.0	7.5	0.8	493-1630-ND	1.88	14.20	107.20	UHE1H272MHD
63	15	9.45	2.3	0.09	55	5.0	11.0	2.0	0.5	493-1631-ND	.25	1.72	12.10	UHE1J150MDD
	33	20.79	1.2	0.09	115	6.3	11.0	2.5	0.5	493-1632-ND	.33	2.22	15.68	UHE1J330MED
	56	35.28	0.63	0.09	232	8.0	11.5	3.5	0.6	493-1633-ND	.40	2.69	18.98	UHE1J560MPD
	82	51.66	0.45	0.09	300	8.0	15.0	3.5	0.6	493-1634-ND	.43	3.15	22.50	UHE1J820MPD
	82	51.66	0.43	0.09	288	10.0	12.5	5.0	0.6	493-1635-ND	.43	3.15	22.50	UHE1J820MPD6
	120	75.6	0.33	0.09	362	8.0	20.0	3.5	0.6	493-1636-ND	.52	3.82	27.25	UHE1J121MPD
	120	75.6	0.31	0.09	357	10.0	16.0	5.0	0.6	493-1637-ND	.52	3.82	27.25	UHE1J121MPD6
	180	113.4	0.21	0.09	466	10.0	20.0	5.0	0.6	493-1638-ND	.63	4.67	34.31	UHE1J181MPD
	180	113.4	0.23	0.09	466	12.5	15.0	5.0	0.6	493-1639-ND	.63	4.67	34.31	UHE1J181MHD6
	220	138.6	0.20	0.09	531	10.0	25.0	5.0	0.6	493-1640-ND	.64	4.74	34.78	UHE1J221MPD
	270	170.1	0.15	0.09	663	10.0	31.5	5.0	0.6	493-1641-ND	.84	6.24	45.83	UHE1J271MPD
	270	170.1	0.16	0.09	690	12.5	20.0	5.0	0.6	493-1642-ND	.84	6.24	45.83	UHE1J271MHD6
	270	170.1	0.14	0.09	795	16.0	15.0	7.5	0.8	493-1643-ND	.84	6.24	45.83	UHE1J271MHD3
	330	207.9	0.12	0.09	784	12.5	25.0	5.0	0.6	493-1644-ND	.97	7.20	52.88	UHE1J331MHD
	390	245.7	0.12	0.09	920	18.0	15.0	7.5	0.8	493-1645-ND	.99	7.39	54.29	UHE1J391MHD
	470	296.1	0.10	0.09	905	12.5	31.5	5.0	0.8	493-1646-ND	1.02	7.62	55.93	UHE1J471MHD
	470	296.1	0.091	0.09	1040	16.0	20.0	7.5	0.8	493-1647-ND	1.02	7.62	55.93	UHE1J471MHD6
	560	352.8	0.083	0.09	1050	12.5	35.5	5.0	0.8	493-1648-ND	1.08	8.13	60.98	UHE1J561MHD
	560	352.8	0.073	0.09	1250	16.0	25.0	7.5	0.8	493-1649-ND	1.08	8.13	60.98	UHE1J561MHD6
	680	428.4	0.071	0.09	1180	12.5	40.0	5.0	0.8	493-1650-ND	1.15	8.64	64.80	UHE1J681MHD
	680	428.4	0.080	0.09	1240	18.0	20.0	7.5	0.8	493-1651-ND	1.15	8.64	64.80	UHE1J681MHD6
	820	516.6	0.054	0.09	1570	16.0	31.5	7.5	0.8	493-1652-ND	1.62	12.12	90.90	UHE1J821MHD
	820	516.6	0.057	0.09	1490	18.0	25.0	7.5	0.8	493-1653-ND	1.62	12.12	90.90	UHE1J821MHD6
	1000	630	0.045	0.09	1790	16.0	35.5	7.5	0.8	493-1654-ND	1.62	12.12	90.90	UHE1J102MHD
	1000	630	0.047	0.09	1630	18.0	31.5	7.5	0.8	493-1655-ND	1.62	12.12	90.90	UHE1J102MHD6
	1200	756	0.040	0.09	2020	16.0	40.0	7.5	0.8	493-1656-ND	1.82	13.68	102.60	UHE1J122MHD
	1200	756	0.040	0.09	1790	18.0	35.5	7.5	0.8	493-1657-ND	1.82	13.68	102.60	UHE1J122MHD6
	1500	945	0.036	0.09	2330	18.0	40.0	7.5	0.8	493-1658-ND	1.92	14.55	109.80	UHE1J152MHD
100	6.8	6.8	2.3	0.08	55	5.0	11.0	2.0	0.5	493-1659-ND	.25	1.72	12.10	UHE2A6R8MDD
	15	15	1.2	0.08	115	6.3	11.0	2.5	0.5	493-1660-ND	.33	2.22	15.68	UHE2A150MED
	27	27	0.63	0.08	232	8.0	11.5	3.5	0.6	493-1661-ND	.36	2.42	17.05	UHE2A270MPD
	39	39	0.45	0.08	300	8.0	15.0	3.5	0.6	493-1662-ND	.40	2.69	18.98	UHE2A390MPD
	47	47	0.43	0.08	288	10.0	12.5	5.0	0.6	493-1663-ND	.40	2.69	18.98	UHE2A470MPD
	56	56	0.33	0.08	362	8.0	20.0	3.5	0.6	493-1664-ND	.43	3.15	22.50	UHE2A560MPD
	68	68	0.31	0.08	357	10.0	16.0	5.0	0.6	493-1665-ND	.43	3.15	22.50	UHE2A680MPD
	82	82	0.21	0.08	466	10.0	20.0	5.0	0.6	493-1666-ND	.43	3.15	22.50	UHE2A820MPD
	82	82	0.23	0.08	466	12.5	15.0	5.0	0.6	493-1667-ND	.43	3.15	22.50	UHE2A820MHD6
	100	100	0.20	0.08	531	10.0	25.0	5.0	0.6	493-1668-ND	.45	3.29	23.50	UHE2A101MPD
	120	120	0.15	0.08	663	10.0	31.5	5.0	0.6	493-1669-ND	.56	4.13	29.50	UHE2A121MPD
	120	120	0.16	0.08	690	12.5	20.0	5.0	0.6	493-1670-ND	.56	4.13	29.50	UHE2A121MHD6
	150	150	0.14	0.08	795	16.0	15.0	7.5	0.8	493-1671-ND	.64	4.74	34.78	UHE2A151MHD
	180	180	0.12	0.08	784	12.5	25.0	5.0	0.6	493-1672-ND	.64	4.74	34.78	UHE2A181MHD
	180	180	0.12	0.08	920	18.0	15.0	7.5	0.8	493-1673-ND	.64	4.74	34.78	UHE2A181MHD6
	220	220	0.10	0.08	905	12.5	31.5	5.0	0.8	493-1674-ND	.80	5.98	43.95	UHE2A221MHD
	220	220	0.091	0.08	1040	16.0	20.0	7.5	0.8	493-1675-ND	.80	5.98	43.95	UHE2A221MHD6
	270	270	0.083	0.08	1050	12.5	35.5	5.0	0.8	493-1676-ND	.84	6.24	45.83	UHE2A271MHD
	270	270	0.073	0.08	1250	16.0	25.0	7.5	0.8	493-1677-ND	.84	6.24	45.83	UHE2A271MHD6
	330	330	0.071	0.08	1180	12.5	40.0	5.0	0.8	493-1678-ND	1.59	11.94	89.55	UHE2A331MHD
	330	330	0.080	0.08	1240	18.0	20.0	7.5	0.8	493-1679-ND	1.59	11.94	89.55	UHE2A331MHD6
	390	390	0.054	0.08	1570	16.0	31.5	7.5	0.8	493-1680-ND	1.62	12.12	90.90	UHE2A391MHD
	390	390	0.057	0.08	1490	18.0	25.0	7.5	0.8	493-1681-ND	1.62	12.12	90.90	UHE2A391MHD6
	470	470	0.045	0.08	1790	16.0	35.5	7.5	0.8	493-1682-ND	1.62	12.12	90.90	UHE2A471MHD
	470	470	0.047	0.08	1630	18.0	31.5	7.5	0.8	493-1683-ND	1.62	12.12	90.90	UHE2A471MHD6
	560	560	0.040	0.08	2020	16.0	40.0	7.5	0.8	493-1684-ND	1.82	13.68	102.60	UHE2A561MHD
	680	680	0.040	0.08	1790	18.0	35.5	7.5	0.8	493-1685-ND	1.82	13.68	102.60	UHE2A681MHD
	820	820	0.036	0.08	2330	18.0	40.0	7.5	0.8	493-1686-ND	1.92	14.55	109.80	UHE2A821MHD

nichicon WX Series Aluminum Electrolytic Capacitors (SMT)

General Purpose 85°C

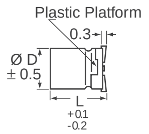

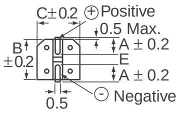

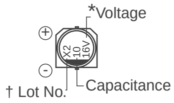

	Diameter (mm)				
	3	4	5	6.3	8
A	1.5	1.8	2.1	2.4	3.3
B	3.3	4.3	5.3	6.6	8.3
C	3.3	4.3	5.3	6.6	8.3
E	0.8	1.0	1.3	2.2	2.3

* Voltage mark for 6.3V is (6V). In case of marking for ø3 units, "V" for rated voltage is omitted.

† In case of marking for ø3 units, Lot No. is expressed by digit (month code).

FEATURES:

• Designed for surface mounting on high density PC board • Applicable to automatic mounting machine using carrier tape • Load life of 2000 hours at 85°C

SPECIFICATIONS:

Temperature Range	-40°C ~ 85°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.

- **tan δ:**

Rated Volt. (V)	4	6.3	10	16	25	35	50
tan δ (Max.)	0.35 (0.40)	0.26 (0.30)	0.20 (0.24)	0.16 (0.19)	0.14 (0.16)	0.12 (0.14)	0.12 (0.14)

Measurement frequency: 120Hz, Temperature: 20°C *(Values in ( ) ø3 case size)*

- **Stability at Low Temperature:**

Rated Voltage (V)		4	6.3	10	16	25	35	50
Impedance ratio ZT / Z20 (Max.)	Z -25°C / Z +20°C	7	4	3	2	2	2	2
	Z -40°C / Z +20°C	15	8	8	4	4	3	3

Measurement frequency: 120Hz

- **Endurance:** After 2000 hours application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±20% of initial value (Within ±25% for 4V and ø3)
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

- **Shelf Life:** After leaving capacitors under no load at 85°C for 1000 hours, they meet the specified value for endurance characteristics listed above.
- **Resistance to Soldering Heat:** The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.

Capacitance Change	Within ±10% of initial value
tan δ	Initial specified value or less
Leakage Current	Initial specified value or less

- **Marking:** Black print on the case top.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Cur. @120Hz/85°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Nichicon Part No.
								5	10	25		Size	Pricing	
4	22	0.35	3	19	3.0	5.4	493-2075-1-ND	.89	1.47	3.41	493-2075-2-ND	2,000	63.00/M	UWX0G220MCL2GB
	33	0.35	3	28	4.0	5.4	493-2076-1-ND	.89	1.47	3.41	493-2076-2-ND	2,000	63.00/M	UWX0G330MCL1GB
	47	0.35	3	33	4.0	5.4	493-2077-1-ND	.89	1.47	3.41	493-2077-2-ND	2,000	63.00/M	UWX0G470MCL1GB
	56	0.35	3	42	5.0	5.4	493-2078-1-ND	.94	1.54	3.58	493-2078-2-ND	1,000	66.00	UWX0G560MCL1GB
	100	0.35	4	56	5.0	5.4	493-2079-1-ND	.94	1.54	3.58	493-2079-2-ND	1,000	66.00	UWX0G101MCL1GB
	150	0.35	6	79	6.3	5.4	493-2080-1-ND	1.21	2.00	4.63	493-2080-2-ND	1,000	85.50	UWX0G151MCL1GB
	220	0.35	8.8	96	6.3	5.4	493-2081-1-ND	1.21	2.00	4.63	493-2081-2-ND	1,000	85.50	UWX0G221MCL1GB
	330	0.35	13.2	145	8.0	5.4	493-2082-1-ND	1.30	2.14	4.96	493-2082-2-ND	1,000	91.50	UWX0G331MCL1GB
6.3	22	0.26	3	21	3.0	5.4	493-2083-1-ND	.85	1.40	3.25	493-2083-2-ND	2,000	60.00/M	UWX0J220MCL2GB
	22	0.26	3	28	4.0	5.4	493-2084-1-ND	.85	1.40	3.25	493-2084-2-ND	2,000	60.00/M	UWX0J220MCL1GB
	33	0.26	3	37	5.0	5.4	493-2085-1-ND	.94	1.54	3.58	493-2085-2-ND	1,000	66.00	UWX0J330MCL1GB
	47	0.26	3	45	5.0	5.4	493-2086-1-ND	.89	1.47	3.41	493-2086-2-ND	1,000	63.00	UWX0J470MCL1GB
	56	0.26	3.528	52	6.3	5.4	493-2087-1-ND	.94	1.54	3.58	493-2087-2-ND	1,000	66.00	UWX0J560MCL1GB
	100	0.26	6.3	70	6.3	5.4	493-2088-1-ND	.94	1.54	3.58	493-2088-2-ND	1,000	66.00	UWX0J101MCL1GB
	150	0.26	9.45	71	6.3	5.4	493-2089-1-ND	1.28	2.10	4.88	493-2089-2-ND	1,000	90.00	UWX0J151MCL1GB
	220	0.26	13.86	110	8.0	5.4	493-2090-1-ND	1.30	2.14	4.96	493-2090-2-ND	1,000	91.50	UWX0J221MCL1GB
	330	0.26	20.79	170	8.0	5.4	493-2091-1-ND	1.30	2.14	4.96	493-2091-2-ND	1,000	91.50	UWX0J331MCL1GB
10	22	0.2	3	33	5.0	5.4	493-2092-1-ND	.85	1.40	3.25	493-2092-2-ND	1,000	60.00	UWX1A220MCL1GB
	33	0.2	3.3	41	5.0	5.4	493-2093-1-ND	.94	1.54	3.58	493-2093-2-ND	1,000	66.00	UWX1A330MCL1GB
	47	0.2	4.7	52	6.3	5.4	493-2094-1-ND	.94	1.54	3.58	493-2094-2-ND	1,000	66.00	UWX1A470MCL1GB
	56	0.2	5.6	57	6.3	5.4	493-2095-1-ND	.94	1.54	3.58	493-2095-2-ND	1,000	66.00	UWX1A560MCL1GB
	100	0.2	10	76	6.3	5.4	493-2096-1-ND	.94	1.54	3.58	493-2096-2-ND	1,000	66.00	UWX1A101MCL1GB
	150	0.2	15	111	8.0	5.4	493-2097-1-ND	1.64	2.70	6.26	493-2097-2-ND	1,000	115.50	UWX1A151MCL1GB
	220	0.2	22	135	8.0	5.4	493-2098-1-ND	1.30	2.14	4.96	493-2098-2-ND	1,000	91.50	UWX1A221MCL1GB
16	10	0.16	3	18	3.0	5.4	493-2099-1-ND	.85	1.40	3.25	493-2099-2-ND	2,000	60.00/M	UWX1C100MCL2GB
	10	0.16	3	23	4.0	5.4	493-2100-1-ND	.85	1.40	3.25	493-2100-2-ND	2,000	60.00/M	UWX1C100MCL1GB
	22	0.16	3.52	37	5.0	5.4	493-2101-1-ND	.85	1.40	3.25	493-2101-2-ND	1,000	60.00	UWX1C220MCL1GB
	33	0.16	5.28	49	6.3	5.4	493-2102-1-ND	1.02	1.68	3.90	493-2102-2-ND	1,000	72.00	UWX1C330MCL1GB
	47	0.16	7.52	58	6.3	5.4	493-2103-1-ND	.94	1.54	3.58	493-2103-2-ND	1,000	66.00	UWX1C470MCL1GB
	56	0.16	8.96	63	6.3	5.4	493-2104-1-ND	1.02	1.68	3.90	493-2104-2-ND	1,000	72.00	UWX1C560MCL1GB
	100	0.16	16	86	6.3	5.4	493-2105-1-ND	1.04	1.72	3.98	493-2105-2-ND	1,000	73.50	UWX1C101MCL1GB
25	4.7	0.14	3	12	3.0	5.4	493-2106-1-ND	.85	1.40	3.25	493-2106-2-ND	2,000	60.00/M	UWX1E4R7MCL2GB
	4.7	0.14	3	16	4.0	5.4	493-2107-1-ND	.85	1.40	3.25	493-2107-2-ND	2,000	60.00/M	UWX1E4R7MCL1GB
	10	0.14	3	27	5.0	5.4	493-2108-1-ND	.94	1.54	3.58	493-2108-2-ND	1,000	66.00	UWX1E100MCL1GB
	22	0.14	5.5	42	6.3	5.4	493-2109-1-ND	1.02	1.68	3.90	493-2109-2-ND	1,000	72.00	UWX1E220MCL1GB
	33	0.14	8.25	52	6.3	5.4	493-2110-1-ND	1.17	1.93	4.47	493-2110-2-ND	1,000	82.50	UWX1E330MCL1GB
	47	0.14	11.75	70	8.0	5.4	493-2111-1-ND	1.30	2.14	4.96	493-2111-2-ND	1,000	91.50	UWX1E470MCL1GB
	56	0.14	14	76	8.0	5.4	493-2112-1-ND	1.30	2.14	4.96	493-2112-2-ND	1,000	91.50	UWX1E560MCL1GB
	100	0.14	25	110	8.0	5.4	493-2113-1-ND	1.72	2.84	6.58	493-2113-2-ND	1,000	121.50	UWX1E101MCL1GB
35	2.2	0.12	3	8.4	3.0	5.4	493-2114-1-ND	.85	1.40	3.25	493-2114-2-ND	2,000	60.00/M	UWX1V2R2MCL2GB
	3.3	0.12	3	10	3.0	5.4	493-2115-1-ND	.85	1.40	3.25	493-2115-2-ND	2,000	60.00/M	UWX1V3R3MCL2GB
	4.7	0.12	3	18	4.0	5.4	493-2116-1-ND	.85	1.40	3.25	493-2116-2-ND	2,000	60.00/M	UWX1V4R7MCL1GB
	10	0.12	3.5	29	5.0	5.4	493-2117-1-ND	.94	1.54	3.58	493-2117-2-ND	1,000	66.00	UWX1V100MCL1GB
	22	0.12	7.7	46	6.3	5.4	493-2118-1-ND	1.02	1.68	3.90	493-2118-2-ND	1,000	72.00	UWX1V220MCL1GB
	33	0.12	11.55	62	8.0	5.4	493-2119-1-ND	1.30	2.14	4.96	493-2119-2-ND	1,000	91.50	UWX1V330MCL1GB
	47	0.12	16.45	80	8.0	5.4	493-2120-1-ND	1.30	2.14	4.96	493-2120-2-ND	1,000	91.50	UWX1V470MCL1GB
50	0.1	0.12	3	1	3.0	5.4	493-2121-1-ND	.89	1.47	3.41	493-2121-2-ND	2,000	63.00/M	UWX1H0R1MCL2GB
	0.1	0.12	3	1	4.0	5.4	493-2122-1-ND	.89	1.47	3.41	493-2122-2-ND	2,000	63.00/M	UWX1H0R1MCL1GB
	0.22	0.12	3	2	3.0	5.4	493-2123-1-ND	.89	1.47	3.41	493-2123-2-ND	2,000	63.00/M	UWX1HR22MCL2GB
	0.22	0.12	3	2	4.0	5.4	493-2124-1-ND	.89	1.47	3.41	493-2124-2-ND	2,000	63.00/M	UWX1HR22MCL1GB
	0.33	0.12	3	2.8	3.0	5.4	493-2125-1-ND	.89	1.47	3.41	493-2125-2-ND	2,000	63.00/M	UWX1HR33MCL2GB
	0.33	0.12	3	2.8	4.0	5.4	493-2126-1-ND	.89	1.47	3.41	493-2126-2-ND	2,000	63.00/M	UWX1HR33MCL1GB
	0.47	0.12	3	4	3.0	5.4	493-2127-1-ND	.89	1.47	3.41	493-2127-2-ND	2,000	63.00/M	UWX1HR47MCL2GB
	0.47	0.12	3	4	4.0	5.4	493-2128-1-ND	.89	1.47	3.41	493-2128-2-ND	2,000	63.00/M	UWX1HR47MCL1GB
	1	0.12	3	8	3.0	5.4	493-2129-1-ND	.89	1.47	3.41	493-2129-2-ND	2,000	63.00/M	UWX1H010MCL2GB
	1	0.12	3	8.4	4.0	5.4	493-2130-1-ND	.89	1.47	3.41	493-2130-2-ND	2,000	63.00/M	UWX1H010MCL1GB
	2.2	0.12	3	10	3.0	5.4	493-2131-1-ND	.94	1.54	3.58	493-2131-2-ND	2,000	66.00/M	UWX1H2R2MCL2GB
	2.2	0.12	3	13	4.0	5.4	493-2132-1-ND	.94	1.54	3.58	493-2132-2-ND	2,000	66.00/M	UWX1H2R2MCL1GB
	3.3	0.12	3	17	4.0	5.4	493-2133-1-ND	.96	1.58	3.66	493-2133-2-ND	2,000	67.50/M	UWX1H3R3MCL1GB
	4.7	0.12	3	20	5.0	5.4	493-2134-1-ND	.98	1.61	3.74	493-2134-2-ND	1,000	69.00	UWX1H4R7MCL1GB
	10	0.12	5	33	6.3	5.4	493-2135-1-ND	1.02	1.68	3.90	493-2135-2-ND	1,000	72.00	UWX1H100MCL1GB
	22	0.12	11	52	8.0	5.4	493-2136-1-ND	1.47	2.42	5.61	493-2136-2-ND	1,000	103.50	UWX1H220MCL1GB
	33	0.12	16.5	71	8.0	5.4	493-2137-1-ND	1.47	2.42	5.61	493-2137-2-ND	1,000	103.50	UWX1H330MCL1GB

WT Series Aluminum Electrolytic Capacitors (SMT)

General Purpose 105°C

Diameter D (mm): ø3.0 to ø8.0 x 5.4 L

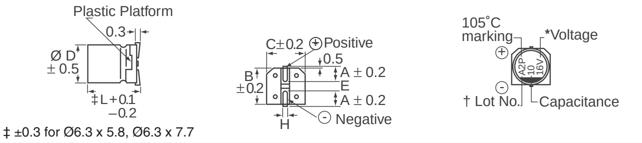

‡ ±0.3 for Ø6.3 x 5.8, Ø6.3 x 7.7

Diameter D (mm): ø8 x 10 L, ø10 x 10 L

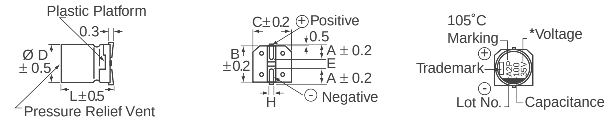

* Voltage mark for 6.3V is (6V). In case of marking for ø3 units, "V" for rated voltage is omitted.

† In case of marking for ø3 units, Lot No. is expressed by a digit (month code).

	Diameter D (mm) x Dimension L (mm)								
Dim.	3.0 x 5.4	4.0 x 5.4	5.0 x 5.4	6.3 x 5.4	6.3 x 5.8	6.3 x 7.7	8.0 x 5.4	8.0 x 10.0	10.0 x 10.0
A	1.5	1.8	2.1	2.4	2.4	2.4	3.3	2.9	3.2
B	3.3	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
C	3.3	4.3	5.3	6.6	6.6	6.6	8.3	8.3	10.3
E	0.8	1.0	1.3	2.2	2.2	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	5.4	5.8	7.7	5.4	10	10
H	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.8-1.1	0.8-1.1

FEATURES:

- Chip type, operating over wide temperature range of -55°C ~ 105°C
- Designed for surface mounting on high density PC board
- Applicable to automatic mounting machine using carrier tape

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.

- **tan δ:**

Rated Volt. (V)	4	6.3	10	16	25	35	50
tan δ (Max.)	0.40	0.30	0.24	0.20	0.16	0.14	0.14

Measurement frequency: 120Hz, Temperature: 20°C

- **Stability at Low Temperature:**

Rated Voltage (V)		4	6.3	10	16	25	35	50
Impedance ratio	Z -25°C / Z +20°C	7	4	3	2	2	2	2
ZT / Z20 (Max.)	Z -40°C / Z +20°C	15	8	8	4	4	3	3

Measurement frequency: 120Hz

- **Endurance:** After 1000 hours application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±25% of initial value for capacitors of ø3(mm) unit, and 16V or less. Within ±20% of initial value for capacitors of 25V or more.
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

- **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.
- **Resistance to Soldering Heat:** The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.

Capacitance Change	Within ±10% of initial value
tan δ	Initial specified value or less
Leakage Current	Initial specified value or less

- **Marking:** Black print on the case top.

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Cur. 120Hz/105°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape & Reel Size	Pricing	Nichicon Part No.
4	22	0.4	3	22	4.0	5.4	493-2138-1-ND	.96	1.58	3.66	493-2138-2-ND	2,000	67.50/M	UWT0G220MCL1GB
	33	0.4	3	30	5.0	5.4	493-2139-1-ND	.96	1.58	3.66	493-2139-2-ND	1,000	67.50	UWT0G330MCL1GB
	47	0.4	3	36	5.0	5.4	493-2140-1-ND	1.13	1.86	4.31	493-2140-2-ND	1,000	79.50	UWT0G470MCL1GB
	100	0.4	4	60	6.3	5.4	493-2141-1-ND	1.21	2.00	4.63	493-2141-2-ND	1,000	85.50	UWT0G101MCL1GB
	150	0.4	6	86	6.3	5.8	493-2142-1-ND	1.36	2.24	5.20	493-2142-2-ND	1,000	96.00	UWT0G151MCL1GS
	220	0.4	8.8	102	8.0	5.4	493-2144-1-ND	1.76	2.91	6.74	493-2144-2-ND	1,000	124.50	UWT0G221MCL1GB
	330	0.4	13.2	105	6.3	7.7	493-2145-1-ND	1.76	2.91	6.74	493-2145-2-ND	900	112.05	UWT0G331MCL1GS
	470	0.4	18.8	210	8.0	10.0	493-2146-1-ND	2.13	3.50	8.13	493-2146-2-ND	500	75.00	UWT0G471MNL1GS
	680	0.4	27.2	210	8.0	10.0	493-2147-1-ND	2.13	3.50	8.13	493-2147-2-ND	500	75.00	UWT0G681MNL1GS
	1000	0.4	40	230	8.0	10.0	493-2148-1-ND	2.13	3.50	8.13	493-2148-2-ND	500	75.00	UWT0G102MNL1GS
	1500	0.4	60	310	10.0	10.0	493-2149-1-ND	2.74	4.52	10.48	493-2149-2-ND	500	96.75	UWT0G152MNL1GS
6.3	22	0.3	3	22	4.0	5.4	493-2150-1-ND	.96	1.58	3.66	493-2150-2-ND	2,000	67.50/M	UWT0J220MCL1GB
	33	0.3	3	30	5.0	5.4	493-2151-1-ND	.96	1.58	3.66	493-2151-2-ND	1,000	67.50	UWT0J330MCL1GB
	47	0.3	3	36	5.0	5.4	493-2152-1-ND	1.13	1.86	4.31	493-2152-2-ND	1,000	79.50	UWT0J470MCL1GB
	100	0.3	6.3	60	6.3	5.4	493-2153-1-ND	1.21	2.00	4.63	493-2153-2-ND	1,000	85.50	UWT0J101MCL1GB
	150	0.3	9.45	86	6.3	5.8	493-2154-1-ND	1.36	2.24	5.20	493-2154-2-ND	1,000	96.00	UWT0J151MCL1GS
	220	0.3	13.86	102	8.0	5.4	493-2156-1-ND	1.76	2.91	6.74	493-2156-2-ND	1,000	124.50	UWT0J221MCL1GB
	330	0.3	20.79	105	6.3	7.7	493-2157-1-ND	1.76	2.91	6.74	493-2157-2-ND	900	112.05	UWT0J331MCL1GS
	470	0.3	29.61	210	8.0	10.0	493-2158-1-ND	2.13	3.50	8.13	493-2158-2-ND	500	75.00	UWT0J471MNL1GS
	680	0.3	42.84	210	8.0	10.0	493-2159-1-ND	2.13	3.50	8.13	493-2159-2-ND	500	75.00	UWT0J681MNL1GS
	1000	0.3	63	230	8.0	10.0	493-2160-1-ND	2.13	3.50	8.13	493-2160-2-ND	500	75.00	UWT0J102MNL1GS
	1500	0.3	94.5	310	10.0	10.0	493-2161-1-ND	2.74	4.52	10.48	493-2161-2-ND	500	96.75	UWT0J152MNL1GS
10	22	0.24	3	27	5.0	5.4	493-2162-1-ND	1.23	2.03	4.71	493-2162-2-ND	1,000	87.00	UWT1A220MCL1GB
	33	0.24	3.3	35	5.0	5.4	493-2163-1-ND	1.23	2.03	4.71	493-2163-2-ND	1,000	87.00	UWT1A330MCL1GB
	47	0.24	4.7	46	6.3	5.4	493-2164-1-ND	1.36	2.24	5.20	493-2164-2-ND	1,000	96.00	UWT1A470MCL1GB
	100	0.24	10	60	6.3	5.4	493-2165-1-ND	1.36	2.24	5.20	493-2165-2-ND	1,000	96.00	UWT1A101MCL1GB
	150	0.24	15	86	6.3	5.8	493-2166-1-ND	1.36	2.24	5.20	493-2166-2-ND	1,000	96.00	UWT1A151MCL1GS
	220	0.24	22	105	6.3	7.7	493-2167-1-ND	1.76	2.91	6.74	493-2167-2-ND	900	112.05	UWT1A221MCL1GS
	330	0.24	33	195	8.0	10.0	493-2168-1-ND	2.13	3.50	8.13	493-2168-2-ND	500	75.00	UWT1A331MNL1GS
	470	0.24	47	210	8.0	10.0	493-2169-1-ND	2.13	3.50	8.13	493-2169-2-ND	500	75.00	UWT1A471MNL1GS
	680	0.24	68	310	10.0	10.0	493-2170-1-ND	2.74	4.52	10.48	493-2170-2-ND	500	96.75	UWT1A681MNL1GS
	1000	0.24	100	310	10.0	10.0	493-2171-1-ND	2.74	4.52	10.48	493-2171-2-ND	500	96.75	UWT1A102MNL1GS
16	10	0.2	3	14	3.0	5.4	493-2172-1-ND	.96	1.58	3.66	493-2172-2-ND	2,000	67.50/M	UWT1C100MCL2GB
	10	0.2	3	18	4.0	5.4	493-2173-1-ND	.96	1.58	3.66	493-2173-2-ND	2,000	67.50/M	UWT1C100MCL1GB
	22	0.2	3.52	30	5.0	5.4	493-2174-1-ND	1.38	2.28	5.28	493-2174-2-ND	1,000	97.50	UWT1C220MCL1GB
	33	0.2	5.28	40	6.3	5.4	493-2175-1-ND	1.38	2.28	5.28	493-2175-2-ND	1,000	97.50	UWT1C330MCL1GB
	47	0.2	7.52	50	6.3	5.4	493-2176-1-ND	1.47	2.42	5.61	493-2176-2-ND	1,000	103.50	UWT1C470MCL1GB
	100	0.2	16	60	6.3	5.4	493-2177-1-ND	1.47	2.42	5.61	493-2177-2-ND	1,000	103.50	UWT1C101MCL1GB
	150	0.2	24	95	6.3	7.7	493-2178-1-ND	1.76	2.91	6.74	493-2178-2-ND	900	112.05	UWT1C151MCL1GS
	220	0.2	35.2	105	6.3	7.7	493-2179-1-ND	1.76	2.91	6.74	493-2179-2-ND	900	112.05	UWT1C221MCL1GS
	330	0.2	52.8	195	8.0	10.0	493-2180-1-ND	2.13	3.50	8.13	493-2180-2-ND	500	75.00	UWT1C331MNL1GS
	470	0.2	75.2	230	8.0	10.0	493-2181-1-ND	2.13	3.50	8.13	493-2181-2-ND	500	75.00	UWT1C471MNL1GS
	680	0.2	108.8	310	10.0	10.0	493-2182-1-ND	2.74	4.52	10.48	493-2182-2-ND	500	96.75	UWT1C681MNL1GS

(Continued)

WT Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Leakage Current (µA)	Rated Ripple Cur. 120Hz/105°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Nichicon Part No.
25	4.7	0.16	3	10	3.0	5.4	493-2183-1-ND	.96	1.58	3.66	493-2183-2-ND	2,000	67.50/M	UWT1E4R7MCL2GB
	4.7	0.16	3	13	4.0	5.4	493-2184-1-ND	.96	1.58	3.66	493-2184-2-ND	2,000	67.50/M	UWT1E4R7MCL1GB
	10	0.16	3	23	5.0	5.4	493-2185-1-ND	1.36	2.24	5.20	493-2185-2-ND	1,000	96.00	UWT1E100MCL1GB
	22	0.16	5.5	38	6.3	5.4	493-2186-1-ND	1.47	2.42	5.61	493-2186-2-ND	1,000	103.50	UWT1E220MCL1GB
	33	0.16	8.25	48	6.3	5.4	493-2187-1-ND	1.55	2.56	5.93	493-2187-2-ND	1,000	109.50	UWT1E330MCL1GB
	47	0.16	11.75	66	8.0	5.4	493-2189-1-ND	1.76	2.91	6.74	493-2189-2-ND	1,000	124.50	UWT1E470MCL1GB
	100	0.16	25	91	6.3	7.7	493-2190-1-ND	1.76	2.91	6.74	493-2190-2-ND	900	112.05	UWT1E101MCL1GS
	150	0.16	37.5	140	8.0	10.0	493-2191-1-ND	2.13	3.50	8.13	493-2191-2-ND	500	75.00	UWT1E151MNL1GS
	220	0.16	55	155	8.0	10.0	493-2192-1-ND	2.13	3.50	8.13	493-2192-2-ND	500	75.00	UWT1E221MNL1GS
	330	0.16	82.5	190	8.0	10.0	493-2193-1-ND	2.13	3.50	8.13	493-2193-2-ND	500	75.00	UWT1E331MNL1GS
	470	0.16	117.5	300	10.0	10.0	493-2194-1-ND	2.74	4.52	10.48	493-2194-2-ND	500	96.75	UWT1E471MNL1GS
35	2.2	0.14	3	7.5	3.0	5.4	493-2195-1-ND	.96	1.58	3.66	493-2195-2-ND	2,000	67.50/M	UWT1V2R2MCL2GB
	3.3	0.14	3	9	3.0	5.4	493-2196-1-ND	1.11	1.82	4.23	493-2196-2-ND	2,000	78.00/M	UWT1V3R3MCL2GB
	4.7	0.14	3	15	4.0	5.4	493-2197-1-ND	1.23	2.03	4.71	493-2197-2-ND	2,000	87.00/M	UWT1V4R7MCL1GB
	10	0.14	3.5	25	5.0	5.4	493-2198-1-ND	1.36	2.24	5.20	493-2198-2-ND	1,000	96.00	UWT1V100MCL1GB
	22	0.14	7.7	42	6.3	5.4	493-2199-1-ND	1.47	2.42	5.61	493-2199-2-ND	1,000	103.50	UWT1V220MCL1GB
	33	0.14	11.55	59	8.0	5.4	493-2201-1-ND	1.76	2.91	6.74	493-2201-2-ND	1,000	124.50	UWT1V330MCL1GB
	47	0.14	16.45	63	6.3	5.8	493-2202-1-ND	1.76	2.91	6.74	493-2202-2-ND	1,000	124.50	UWT1V470MCL1GS
	100	0.14	35	84	6.3	7.7	493-2203-1-ND	1.76	2.91	6.74	493-2203-2-ND	900	112.05	UWT1V101MCL1GS
	150	0.14	52.5	155	8.0	10.0	493-2204-1-ND	2.13	3.50	8.13	493-2204-2-ND	500	75.00	UWT1V151MNL1GS
	220	0.14	77	190	8.0	10.0	493-2205-1-ND	2.66	4.38	10.16	493-2205-2-ND	500	93.75	UWT1V221MNL1GS
	330	0.14	115.5	300	10.0	10.0	493-2206-1-ND	2.74	4.52	10.48	493-2206-2-ND	500	96.75	UWT1V331MNL1GS
50	0.1	0.14	3	1	3.0	5.4	493-2207-1-ND	.96	1.58	3.66	493-2207-2-ND	2,000	67.50/M	UWT1H0R1MCL2GB
	0.1	0.14	3	1	4.0	5.4	493-2208-1-ND	.96	1.58	3.66	493-2208-2-ND	2,000	67.50/M	UWT1H0R1MCL1GB
	0.22	0.14	3	2.6	3.0	5.4	493-2209-1-ND	.96	1.58	3.66	493-2209-2-ND	2,000	67.50/M	UWT1HR22MCL2GB
	0.22	0.14	3	2.6	4.0	5.4	493-2210-1-ND	.96	1.58	3.66	493-2210-2-ND	2,000	67.50/M	UWT1HR22MCL1GB
	0.33	0.14	3	3.2	3.0	5.4	493-2211-1-ND	.96	1.58	3.66	493-2211-2-ND	2,000	67.50/M	UWT1HR33MCL2GB
	0.33	0.14	3	3.2	4.0	5.4	493-2212-1-ND	.96	1.58	3.66	493-2212-2-ND	2,000	67.50/M	UWT1HR33MCL1GB
	0.47	0.14	3	3.8	3.0	5.4	493-2213-1-ND	.96	1.58	3.66	493-2213-2-ND	2,000	67.50/M	UWT1HR47MCL2GB
	0.47	0.14	3	3.8	4.0	5.4	493-2214-1-ND	.96	1.58	3.66	493-2214-2-ND	2,000	67.50/M	UWT1HR47MCL1GB
	1	0.14	3	5.9	3.0	5.4	493-2215-1-ND	.96	1.58	3.66	493-2215-2-ND	2,000	67.50/M	UWT1H010MCL2GB
	1	0.14	3	6.3	4.0	5.4	493-2216-1-ND	.96	1.58	3.66	493-2216-2-ND	2,000	67.50/M	UWT1H010MCL1GB
	2.2	0.14	3	9	3.0	5.4	493-2217-1-ND	.96	1.58	3.66	493-2217-2-ND	2,000	67.50/M	UWT1H2R2MCL2GB
	2.2	0.14	3	11	4.0	5.4	493-2218-1-ND	.96	1.58	3.66	493-2218-2-ND	2,000	67.50/M	UWT1H2R2MCL1GB
	3.3	0.14	3	14	4.0	5.4	493-2219-1-ND	1.11	1.82	4.23	493-2219-2-ND	2,000	78.00/M	UWT1H3R3MCL1GB
	4.7	0.14	3	19	5.0	5.4	493-2220-1-ND	1.23	2.03	4.71	493-2220-2-ND	1,000	87.00	UWT1H4R7MCL1GB
	10	0.14	5	30	6.3	5.4	493-2221-1-ND	1.36	2.24	5.20	493-2221-2-ND	1,000	96.00	UWT1H100MCL1GB
	22	0.14	11	51	8.0	5.4	493-2223-1-ND	1.76	2.91	6.74	493-2223-2-ND	1,000	124.50	UWT1H220MCL1GB
	33	0.14	16.5	60	6.3	7.7	493-2224-1-ND	1.76	2.91	6.74	493-2224-2-ND	900	112.05	UWT1H330MCL1GS
	47	0.14	23.5	63	6.3	7.7	493-2225-1-ND	1.76	2.91	6.74	493-2225-2-ND	900	112.05	UWT1H470MCL1GS
	100	0.14	50	140	8.0	10.0	493-2226-1-ND	2.13	3.50	8.13	493-2226-2-ND	500	75.00	UWT1H101MNL1GS
	150	0.14	75	180	10.0	10.0	493-2227-1-ND	2.74	4.52	10.48	493-2227-2-ND	500	96.75	UWT1H151MNL1GS
	220	0.14	110	220	10.0	10.0	493-2228-1-ND	2.74	4.52	10.48	493-2228-2-ND	500	96.75	UWT1H221MNL1GS

nichicon

UD Series Aluminum Electrolytic Capacitors (SMT)

RoHS COMPLIANT

Low Impedance 105°C

Diameter D (mm): ø4 - ø6.3 x 5.8 L

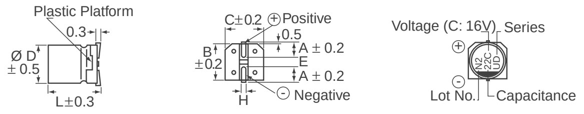

Diameter D (mm): ø8, ø10

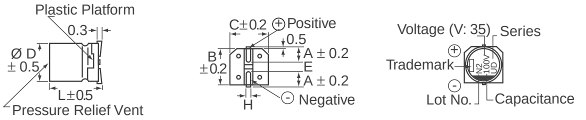

Dim.	Diameter D (mm) x Dimension L (mm) 4.0 x 5.8	5.0 x 5.8	6.3 x 5.8	6.3 x 7.7	8.0 x 10.0	10.0 x 10.0
A	1.8	2.1	2.4	2.4	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	10.3
E	1.0	1.3	2.2	2.2	3.1	4.5
L	5.8	5.8	5.8	7.7	10	10
H	0.5-0.8	0.5-0.8	0.5-0.8	0.5-0.8	0.8-1.1	0.8-1.1

FEATURES:

• Chip type, low impedance temperature range up to 105°C • Designed for surface mounting on high density PC board • Applicable to automatic mounting machine using carrier tape

SPECIFICATIONS:

Temperature Range	-55°C ~ 105°C
Capacitance Tolerance	±20% at 120Hz, 20°C
Leakage Current	After 2 minutes application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.

- **tan δ:**

Rated Volt. (V)	6.3	10	16	25	35	50
tan δ (Max.)	0.24 (0.28)	0.20 (0.24)	0.16 (0.20)	0.14 (0.16)	0.12 (0.14)	0.12 (0.14)

Measurement frequency: 120Hz, Temperature: 20°C *(Values in ( ) ø8 case size)*

- **Stability at Low Temperature:**

Rated Voltage (V)		6.3	10	16	25	35	50
Impedance ratio	Z -25°C / Z +20°C	3	2	2	2	2	2
ZT / Z20 (Max.)	Z -55°C / Z +20°C	5	4	4	3	3	3

Measurement frequency: 120Hz

- **Endurance:** After 1000 hours application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.

Capacitance Change	Within ±25% of initial value
tan δ	200% or less of initial specified value
Leakage Current	Initial specified value or less

- **Shelf Life:** After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.
- **Resistance to Soldering Heat:** The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.

Capacitance Change	Within ±10% of initial value
tan δ	Initial specified value or less
Leakage Current	Initial specified value or less

- **Marking:** Black print on the case top.

(Continued)

UD Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated Voltage (VDC)	Cap. (µF)	tan δ (Maximum) @120Hz/20°C	Impedance ohms (Ω) Max. @20°C/100KHz	Leakage Current (µA)	Rated Ripple Cur. @100KHz/105°C (mA rms)	Dia. D (mm)	Dim. L (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Nichicon Part No.
									5	10	25		Size	Pricing	
6.3	27	0.24	1.8	3	80	4.0	5.8	493-2229-1-ND	3.04	5.01	11.62	493-2229-2-ND	2,000	214.50/M	UUD0J270MCL1GS
	33	0.24	0.76	3	150	5.0	5.8	493-2230-1-ND	3.42	5.64	13.08	493-2230-2-ND	1,000	241.50	UUD0J330MCL1GS
	47	0.24	0.76	3	150	5.0	5.8	493-2231-1-ND	3.42	5.64	13.08	493-2231-2-ND	1,000	241.50	UUD0J470MCL1GS
	56	0.24	0.76	3.528	150	5.0	5.8	493-2232-1-ND	3.42	5.64	13.08	493-2232-2-ND	1,000	241.50	UUD0J560MCL1GS
	68	0.24	0.44	4.284	230	6.3	5.8	493-2233-1-ND	3.70	6.09	14.14	493-2233-2-ND	1,000	261.00	UUD0J680MCL1GS
	100	0.24	0.44	6.3	230	6.3	5.8	493-2234-1-ND	3.70	6.09	14.14	493-2234-2-ND	1,000	261.00	UUD0J101MCL1GS
	150	0.24	0.44	9.45	230	6.3	5.8	493-2235-1-ND	3.70	6.09	14.14	493-2235-2-ND	1,000	261.00	UUD0J151MCL1GS
	220	0.24	0.44	13.86	230	6.3	5.8	493-2236-1-ND	3.70	6.09	14.14	493-2236-2-ND	1,000	261.00	UUD0J221MCL1GS
	330	0.24	0.34	20.79	280	6.3	7.7	493-2237-1-ND	3.70	6.09	14.14	493-2237-2-ND	900	234.90	UUD0J331MCL1GS
	470	0.28	0.17	29.61	450	8.0	10.0	493-2238-1-ND	4.70	7.74	17.96	493-2238-2-ND	500	165.75	UUD0J471MNL1GS
	680	0.28	0.17	42.84	450	8.0	10.0	493-2239-1-ND	4.70	7.74	17.96	493-2239-2-ND	500	165.75	UUD0J681MNL1GS
	1000	0.28	0.17	63	450	8.0	10.0	493-2240-1-ND	4.70	7.74	17.96	493-2240-2-ND	500	165.75	UUD0J102MNL1GS
	1500	0.28	0.09	94.5	670	10.0	10.0	493-2241-1-ND	5.06	8.33	19.34	493-2241-2-ND	500	178.50	UUD0J152MNL1GS
10	22	0.2	1.8	3	80	4.0	5.8	493-2242-1-ND	3.04	5.01	11.62	493-2242-2-ND	2,000	214.50/M	UUD1A220MCL1GS
	27	0.2	0.76	3	150	5.0	5.8	493-2243-1-ND	3.42	5.64	13.08	493-2243-2-ND	1,000	241.50	UUD1A270MCL1GS
	33	0.2	0.76	3.3	150	5.0	5.8	493-2244-1-ND	3.42	5.64	13.08	493-2244-2-ND	1,000	241.50	UUD1A330MCL1GS
	47	0.2	0.44	4.7	230	6.3	5.8	493-2245-1-ND	3.70	6.09	14.14	493-2245-2-ND	1,000	261.00	UUD1A470MCL1GS
	56	0.2	0.44	5.6	230	6.3	5.8	493-2246-1-ND	3.70	6.09	14.14	493-2246-2-ND	1,000	261.00	UUD1A560MCL1GS
	68	0.2	0.44	6.8	230	6.3	5.8	493-2247-1-ND	3.70	6.09	14.14	493-2247-2-ND	1,000	261.00	UUD1A680MCL1GS
	100	0.2	0.44	10	230	6.3	5.8	493-2248-1-ND	3.70	6.09	14.14	493-2248-2-ND	1,000	261.00	UUD1A101MCL1GS
	150	0.2	0.44	15	230	6.3	5.8	493-2249-1-ND	3.70	6.09	14.14	493-2249-2-ND	1,000	261.00	UUD1A151MCL1GS
	220	0.2	0.34	22	280	6.3	7.7	493-2250-1-ND	3.91	6.44	14.95	493-2250-2-ND	900	248.40	UUD1A221MCL1GS
	330	0.24	0.17	33	450	8.0	10.0	493-2251-1-ND	4.70	7.74	17.96	493-2251-2-ND	500	165.75	UUD1A331MNL1GS
	470	0.24	0.17	47	450	8.0	10.0	493-2252-1-ND	4.70	7.74	17.96	493-2252-2-ND	500	165.75	UUD1A471MNL1GS
	680	0.24	0.09	68	670	10.0	10.0	493-2253-1-ND	5.06	8.33	19.34	493-2253-2-ND	500	178.50	UUD1A681MNL1GS
	1000	0.24	0.09	100	670	10.0	10.0	493-2254-1-ND	5.06	8.33	19.34	493-2254-2-ND	500	178.50	UUD1A102MNL1GS
16	15	0.16	1.8	3	80	4.0	5.8	493-2255-1-ND	3.04	5.01	11.62	493-2255-2-ND	2,000	214.50/M	UUD1C150MCL1GS
	22	0.16	0.76	3.52	150	5.0	5.8	493-2256-1-ND	3.42	5.64	13.08	493-2256-2-ND	1,000	241.50	UUD1C220MCL1GS
	27	0.16	0.76	4.32	150	5.0	5.8	493-2257-1-ND	3.42	5.64	13.08	493-2257-2-ND	1,000	241.50	UUD1C270MCL1GS
	33	0.16	0.44	5.28	230	6.3	5.8	493-2258-1-ND	3.70	6.09	14.14	493-2258-2-ND	1,000	261.00	UUD1C330MCL1GS
	47	0.16	0.44	7.52	230	6.3	5.8	493-2259-1-ND	3.70	6.09	14.14	493-2259-2-ND	1,000	261.00	UUD1C470MCL1GS
	56	0.16	0.44	8.96	230	6.3	5.8	493-2260-1-ND	3.70	6.09	14.14	493-2260-2-ND	1,000	261.00	UUD1C560MCL1GS
	68	0.16	0.44	10.88	230	6.3	5.8	493-2261-1-ND	3.70	6.09	14.14	493-2261-2-ND	1,000	261.00	UUD1C680MCL1GS
	100	0.16	0.44	16	230	6.3	5.8	493-2262-1-ND	3.70	6.09	14.14	493-2262-2-ND	1,000	261.00	UUD1C101MCL1GS
	150	0.16	0.34	24	280	6.3	7.7	493-2263-1-ND	3.91	6.44	14.95	493-2263-2-ND	900	248.40	UUD1C151MCL1GS
	220	0.16	0.34	35.2	280	6.3	7.7	493-2264-1-ND	3.91	6.44	14.95	493-2264-2-ND	900	248.40	UUD1C221MCL1GS
	330	0.2	0.17	52.8	450	8.0	10.0	493-2265-1-ND	4.70	7.74	17.96	493-2265-2-ND	500	165.75	UUD1C331MNL1GS
	470	0.2	0.17	75.2	450	8.0	10.0	493-2266-1-ND	4.70	7.74	17.96	493-2266-2-ND	500	165.75	UUD1C471MNL1GS
	680	0.2	0.09	108.8	670	10.0	10.0	493-2267-1-ND	5.06	8.33	19.34	493-2267-2-ND	500	178.50	UUD1C681MNL1GS
25	10	0.14	1.8	3	80	4.0	5.8	493-2268-1-ND	3.04	5.01	11.62	493-2268-2-ND	2,000	214.50/M	UUD1E100MCL1GS
	15	0.14	0.76	3.75	150	5.0	5.8	493-2269-1-ND	3.42	5.64	13.08	493-2269-2-ND	1,000	241.50	UUD1E150MCL1GS
	22	0.14	0.76	5.5	150	5.0	5.8	493-2270-1-ND	3.42	5.64	13.08	493-2270-2-ND	1,000	241.50	UUD1E220MCL1GS
	27	0.14	0.44	6.75	230	6.3	5.8	493-2271-1-ND	3.70	6.09	14.14	493-2271-2-ND	1,000	261.00	UUD1E270MCL1GS
	33	0.14	0.44	8.25	230	6.3	5.8	493-2272-1-ND	3.70	6.09	14.14	493-2272-2-ND	1,000	261.00	UUD1E330MCL1GS
	47	0.14	0.44	11.75	230	6.3	5.8	493-2273-1-ND	3.70	6.09	14.14	493-2273-2-ND	1,000	261.00	UUD1E470MCL1GS
	56	0.14	0.44	14	230	6.3	5.8	493-2274-1-ND	3.70	6.09	14.14	493-2274-2-ND	1,000	261.00	UUD1E560MCL1GS
	68	0.14	0.44	17	230	6.3	5.8	493-2275-1-ND	3.70	6.09	14.14	493-2275-2-ND	1,000	261.00	UUD1E680MCL1GS
	100	0.14	0.34	25	280	6.3	7.7	493-2276-1-ND	3.91	6.44	14.95	493-2276-2-ND	900	248.40	UUD1E101MCL1GS
	150	0.16	0.17	37.5	450	8.0	10.0	493-2277-1-ND	4.70	7.74	17.96	493-2277-2-ND	500	165.75	UUD1E151MNL1GS
	220	0.16	0.17	55	450	8.0	10.0	493-2278-1-ND	4.70	7.74	17.96	493-2278-2-ND	500	165.75	UUD1E221MNL1GS
	330	0.16	0.17	82.5	450	8.0	10.0	493-2279-1-ND	4.70	7.74	17.96	493-2279-2-ND	500	165.75	UUD1E331MNL1GS
	470	0.16	0.09	117.5	670	10.0	10.0	493-2280-1-ND	5.06	8.33	19.34	493-2280-2-ND	500	178.50	UUD1E471MNL1GS
35	4.7	0.12	1.8	3	80	4.0	5.8	493-2281-1-ND	3.04	5.01	11.62	493-2281-2-ND	2,000	214.50/M	UUD1V4R7MCL1GS
	10	0.12	0.76	3.5	150	5.0	5.8	493-2282-1-ND	3.42	5.64	13.08	493-2282-2-ND	1,000	241.50	UUD1V100MCL1GS
	15	0.12	0.76	5.25	150	5.0	5.8	493-2283-1-ND	3.42	5.64	13.08	493-2283-2-ND	1,000	241.50	UUD1V150MCL1GS
	22	0.12	0.76	7.7	150	5.0	5.8	493-2284-1-ND	3.42	5.64	13.08	493-2284-2-ND	1,000	241.50	UUD1V220MCL1GS
	27	0.12	0.44	9.45	230	6.3	5.8	493-2285-1-ND	3.70	6.09	14.14	493-2285-2-ND	1,000	261.00	UUD1V270MCL1GS
	33	0.12	0.44	11.55	230	6.3	5.8	493-2286-1-ND	3.70	6.09	14.14	493-2286-2-ND	1,000	261.00	UUD1V330MCL1GS
	47	0.12	0.44	16.45	230	6.3	5.8	493-2287-1-ND	3.70	6.09	14.14	493-2287-2-ND	1,000	261.00	UUD1V470MCL1GS
	56	0.12	0.34	19.6	280	6.3	7.7	493-2288-1-ND	3.91	6.44	14.95	493-2288-2-ND	900	248.40	UUD1V560MCL1GS
	68	0.12	0.34	23.8	280	6.3	7.7	493-2289-1-ND	3.91	6.44	14.95	493-2289-2-ND	900	248.40	UUD1V680MCL1GS
	100	0.14	0.17	35	450	8.0	10.0	493-2290-1-ND	4.70	7.74	17.96	493-2290-2-ND	500	165.75	UUD1V101MNL1GS
	150	0.14	0.17	52.5	450	8.0	10.0	493-2291-1-ND	4.70	7.74	17.96	493-2291-2-ND	500	165.75	UUD1V151MNL1GS
	220	0.14	0.17	77	450	8.0	10.0	493-2292-1-ND	4.70	7.74	17.96	493-2292-2-ND	500	165.75	UUD1V221MNL1GS
	330	0.14	0.09	115.5	670	10.0	10.0	493-2293-1-ND	5.06	8.33	19.34	493-2293-2-ND	500	178.50	UUD1V331MNL1GS
50	1	0.12	5	3	30	4.0	5.8	493-2294-1-ND	3.04	5.01	11.62	493-2294-2-ND	2,000	214.50/M	UUD1H010MCL1GS
	2.2	0.12	5	3	30	4.0	5.8	493-2295-1-ND	3.04	5.01	11.62	493-2295-2-ND	2,000	214.50/M	UUD1H2R2MCL1GS
	3.3	0.12	5	3	30	4.0	5.8	493-2296-1-ND	3.04	5.01	11.62	493-2296-2-ND	2,000	214.50/M	UUD1H3R3MCL1GS
	4.7	0.12	1.52	3	85	5.0	5.8	493-2297-1-ND	3.42	5.64	13.08	493-2297-2-ND	1,000	241.50	UUD1H4R7MCL1GS
	10	0.12	0.88	5	165	6.3	5.8	493-2298-1-ND	3.70	6.09	14.14	493-2298-2-ND	1,000	261.00	UUD1H100MCL1GS
	15	0.12	0.88	7.5	165	6.3	5.8	493-2299-1-ND	3.70	6.09	14.14	493-2299-2-ND	1,000	261.00	UUD1H150MCL1GS
	22	0.12	0.88	11	165	6.3	5.8	493-2300-1-ND	3.70	6.09	14.14	493-2300-2-ND	1,000	261.00	UUD1H220MCL1GS
	27	0.12	0.68	13.5	185	6.3	7.7	493-2301-1-ND	3.91	6.44	14.95	493-2301-2-ND	900	248.40	UUD1H270MCL1GS
	33	0.12	0.68	16.5	185	6.3	7.7	493-2302-1-ND	3.91	6.44	14.95	493-2302-2-ND	900	248.40	UUD1H330MCL1GS
	47	0.12	0.68	23.5	185	6.3	7.7	493-2303-1-ND	3.91	6.44	14.95	493-2303-2-ND	900	248.40	UUD1H470MCL1GS
	56	0.14	0.34	28	300	8.0	10.0	493-2304-1-ND	4.70	7.74	17.96	493-2304-2-ND	500	165.75	UUD1H560MNL1GS
	68	0.14	0.34	34	300	8.0	10.0	493-2305-1-ND	4.70	7.74	17.96	493-2305-2-ND	500	165.75	UUD1H680MNL1GS
	100	0.14	0.34	50	300	8.0	10.0	493-2306-1-ND	4.70	7.74	17.96	493-2306-2-ND	500	165.75	UUD1H101MNL1GS
	150	0.14	0.18	75	670	10.0	10.0	493-2307-1-ND	5.06	8.33	19.34	493-2307-2-ND	500	178.50	UUD1H151MNL1GS
	220	0.14	0.18	110	670	10.0	10.0	493-2308-1-ND	5.06	8.33	19.34	493-2308-2-ND	500	178.50	UUD1H221MNL1GS

SMG Series Aluminum Electrolytic Capacitors (Radial Lead)

General Purpose 85°C

Features: Miniature, General Purpose, Solvent Proof (except 350-450V), 85°C Maximum Temperature (2000 Hour Life)
Specifications: • **Operating Temperature:** -40°C ~ 85°C (6.3-400V), -25°C ~ 85°C (450V) • **Capacitance Tolerance:** ±20%

Leakage Current @ 20°C:

øD	DC Voltage	Test Time	Leakage Current (µA)	
≤ ø18	6.3-100V	After 1 Minute	I = 0.03CV or 4µA, whichever is greater	
	160-450V	After 1 Minute	CV≤ 1,000: I=0.1CV +40	CV>1,000: I=0.04CV +100
		After 5 Minutes	CV≤ 1,000: I=0.03CV +15	CV>1,000: I=0.02CV +25
≥ ø20	6.3-450V	After 3 Minutes	I=0.03CV	

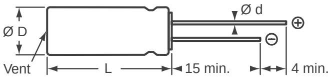

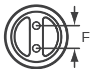

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
6.3	33	0.34	77	5.0	11.0	2.0	0.5	565-1000-ND	.23	1.45	9.76	ESMG6R3ELL330ME11D
	47	0.34	92	5.0	11.0	2.0	0.5	565-1001-ND	.23	1.46	9.85	ESMG6R3ELL470ME11D
	100	0.34	134	5.0	11.0	2.0	0.5	565-1002-ND	.23	1.45	9.76	ESMG6R3ELL101ME11D
	220	0.34	200	5.0	11.0	2.0	0.5	565-1003-ND	.24	1.50	10.13	ESMG6R3ELL221ME11D
	330	0.34	270	6.3	11.0	2.5	0.5	565-1004-ND	.28	1.75	11.77	ESMG6R3ELL331MF11D
	470	0.34	320	6.3	11.0	2.5	0.5	565-1005-ND	.28	1.75	11.77	ESMG6R3ELL471MF11D
	2200	0.36	1000	10.0	20.0	5.0	0.6	565-1006-ND	.38	2.81	20.05	ESMG6R3ELL222MJ20S
	3300	0.38	1185	10.0	20.0	5.0	0.6	565-1007-ND	.44	3.22	22.99	ESMG6R3ELL332MJ20S
	4700	0.40	1545	12.5	20.0	5.0	0.6	565-1008-ND	.59	4.31	30.79	ESMG6R3ELL472MK20S
	6800	0.44	1915	12.5	25.0	5.0	0.6	565-1009-ND	.68	5.08	37.31	ESMG6R3ELL682MK25S
	10000	0.52	2330	16.0	25.0	7.5	0.8	565-1010-ND	.96	7.17	52.66	ESMG6R3ELL103ML25S
	10000	0.46	2310	20.0	25.0	10.0	1.0	565-1011-ND	1.61	12.06	90.48	ESMG6R3ELL103MN25S
	15000	0.56	2660	20.0	30.0	10.0	1.0	565-1012-ND	1.75	13.09	98.16	ESMG6R3ELL153MN30S
	22000	0.76	3320	18.0	40.0	7.5	0.8	565-1013-ND	1.57	11.75	88.13	ESMG6R3ELL223MM40S
	22000	0.70	3130	20.0	40.0	10.0	1.0	565-1014-ND	1.96	14.73	110.51	ESMG6R3ELL223MN40S
	27000	0.80	3280	22.0	40.0	10.0	1.0	565-1015-ND	1.93	14.59	110.09	ESMG6R3ELL273MP40S
	39000	1.04	3560	25.4	40.0	12.5	1.0	565-1016-ND	2.83	21.43	161.71	ESMG6R3ELL393MQ40S
10	22	0.24	66	5.0	11.0	2.0	0.5	565-1017-ND	.23	1.48	9.94	ESMG100ELL220ME11D
	33	0.24	83	5.0	11.0	2.0	0.5	565-1018-ND	.23	1.47	9.90	ESMG100ELL330ME11D
	47	0.24	100	5.0	11.0	2.0	0.5	565-1019-ND	.25	1.60	10.81	ESMG100ELL470ME11D
	100	0.24	146	5.0	11.0	2.0	0.5	565-1020-ND	.25	1.59	10.72	ESMG100ELL101ME11D
	220	0.24	240	5.0	11.0	2.0	0.5	565-1021-ND	.25	1.58	10.64	ESMG100ELL221ME11D
	330	0.24	290	6.3	11.0	2.5	0.5	565-1022-ND	.30	2.05	14.42	ESMG100ELL331MF11D
	470	0.24	350	6.3	11.0	2.5	0.5	565-1023-ND	.26	1.66	11.21	ESMG100ELL471MF11D
	1000	0.24	650	10.0	12.5	5.0	0.6	565-1024-ND	.53	3.93	28.09	ESMG100ELL102MJC5S
	2200	0.26	1070	10.0	20.0	5.0	0.6	565-1025-ND	.56	4.12	29.42	ESMG100ELL222MJ20S
	3300	0.28	1420	12.5	20.0	5.0	0.6	565-1026-ND	.57	4.26	31.30	ESMG100ELL332MK20S
	4700	0.30	1780	12.5	25.0	5.0	0.6	565-1027-ND	.73	5.40	39.66	ESMG100ELL472MK25S
	6800	0.34	2220	16.0	25.0	7.5	0.8	565-1028-ND	1.00	7.47	54.83	ESMG100ELL682ML25S
	10000	0.42	2410	20.0	25.0	10.0	1.0	565-1029-ND	1.70	12.77	95.81	ESMG100ELL103MN25S
	15000	0.52	3080	18.0	35.5	7.5	0.8	565-1030-ND	1.36	10.20	76.51	ESMG100ELL153MMP1S
	22000	0.66	3480	22.0	40.0	10.0	1.0	565-1031-ND	2.18	16.51	124.63	ESMG100ELL223MP40S
	33000	0.88	3560	25.4	40.0	12.5	1.0	565-1032-ND	3.24	24.50	184.87	ESMG100ELL333MQ40S
16	10	0.20	50	5.0	11.0	2.0	0.5	565-1033-ND	1.95	14.60	109.49	ESMG160ELL100ME11D
	22	0.20	75	5.0	11.0	2.0	0.5	565-1034-ND	.23	1.48	9.94	ESMG160ELL220ME11D
	33	0.20	91	5.0	11.0	2.0	0.5	565-1035-ND	.23	1.43	9.63	ESMG160ELL330ME11D
	47	0.20	109	5.0	11.0	2.0	0.5	565-1036-ND	.25	1.60	10.81	ESMG160ELL470ME11D
	100	0.20	160	5.0	11.0	2.0	0.5	565-1037-ND	.25	1.62	10.90	ESMG160ELL101ME11D
	220	0.20	260	6.3	11.0	2.5	0.5	565-1038-ND	.28	1.75	11.81	ESMG160ELL221MF11D
	330	0.20	370	8.0	11.5	3.5	0.6	565-1039-ND	.30	2.01	14.16	ESMG160ELL331MHB5D
	470	0.20	440	8.0	11.5	3.5	0.6	565-1040-ND	.30	2.00	14.12	ESMG160ELL471MHB5D
	1000	0.20	785	10.0	16.0	5.0	0.6	565-1041-ND	.39	2.86	20.42	ESMG160ELL102MJ16S
	2200	0.22	1295	12.5	20.0	5.0	0.6	565-1042-ND	.55	4.05	28.95	ESMG160ELL222MK20S
	3300	0.24	1655	12.5	25.0	5.0	0.6	565-1043-ND	.66	4.94	36.27	ESMG160ELL332MK25S
	4700	0.26	2090	16.0	25.0	7.5	0.8	565-1044-ND	.91	6.79	49.86	ESMG160ELL472ML25S
	4700	0.26	1960	20.0	20.0	10.0	1.0	565-1045-ND	1.47	11.04	82.80	ESMG160ELL472MN20S
	6800	0.30	2520	16.0	31.5	7.5	0.8	565-1046-ND	1.05	7.88	59.10	ESMG160ELL682MLN3S
	6800	0.30	2330	20.0	25.0	10.0	1.0	565-1047-ND	1.66	12.42	93.13	ESMG160ELL682MN25S
	8200	0.34	2500	20.0	30.0	10.0	1.0	565-1048-ND	1.75	13.13	98.49	ESMG160ELL822MN30S
	10000	0.38	2920	18.0	35.5	7.5	0.8	565-1049-ND	1.52	11.39	85.45	ESMG160ELL103MMP1S
	12000	0.42	2900	20.0	40.0	10.0	1.0	565-1050-ND	1.87	14.19	107.12	ESMG160ELL123MN40S
	12000	0.42	2900	22.0	35.0	10.0	1.0	565-1051-ND	1.76	13.33	100.59	ESMG160ELL123MP35S
	15000	0.48	3380	22.0	40.0	10.0	1.0	565-1052-ND	2.27	17.22	129.99	ESMG160ELL153MP40S
	22000	0.62	3720	25.4	40.0	12.5	1.0	565-1053-ND	3.06	23.20	175.07	ESMG160ELL223MQ40S
25	4.7	0.16	36	5.0	11.0	2.5	0.5	565-1054-ND	.23	1.43	9.63	ESMG250ELL4R7ME11D
	10	0.16	53	5.0	11.0	2.0	0.5	565-1055-ND	.25	1.57	10.58	ESMG250ELL100ME11D
	22	0.16	78	5.0	11.0	2.0	0.5	565-1056-ND	.23	1.48	9.94	ESMG250ELL220ME11D
	33	0.16	96	5.0	11.0	2.0	0.5	565-1057-ND	.23	1.45	9.76	ESMG250ELL330ME11D
	47	0.16	115	5.0	11.0	2.0	0.5	565-1058-ND	.23	1.46	9.85	ESMG250ELL470ME11D
	100	0.16	190	6.3	11.0	2.0	0.5	565-1059-ND	.27	1.73	11.68	ESMG250ELL101MF11D
	220	0.16	330	8.0	11.5	3.5	0.6	565-1060-ND	.30	2.01	14.20	ESMG250ELL221MHB5D
	330	0.16	440	8.0	11.5	3.5	0.6	565-1061-ND	.30	2.03	14.32	ESMG250ELL331MHB5D
	470	0.16	545	10.0	12.5	5.0	0.6	565-1062-ND	.39	2.66	18.77	ESMG250ELL471MJC5S
	1000	0.16	955	10.0	20.0	5.0	0.6	565-1063-ND	.41	3.01	21.52	ESMG250ELL102MJ20S
	2200	0.18	1540	12.5	25.0	5.0	0.6	565-1064-ND	.68	5.03	36.97	ESMG250ELL222MK25S
	3300	0.20	1975	16.0	25.0	7.5	0.8	565-1065-ND	.94	6.98	51.25	ESMG250ELL332ML25S
	3300	0.20	1850	20.0	20.0	10.0	1.0	565-1066-ND	1.05	7.84	57.54	ESMG250ELL332MN20S
	4700	0.22	2420	16.0	31.5	7.5	0.8	565-1067-ND	1.01	7.57	56.75	ESMG250ELL472MLN3S
	4700	0.22	2420	20.0	25.0	10.0	1.0	565-1068-ND	1.18	8.82	66.11	ESMG250ELL472MN25S
	6800	0.26	2880	18.0	35.5	7.5	0.8	565-1069-ND	1.53	11.44	85.78	ESMG250ELL682MMP1S
	6800	0.26	2680	20.0	35.0	10.0	1.0	565-1070-ND	1.53	11.44	85.78	ESMG250ELL682MN35S
	6800	0.26	2510	22.0	30.0	10.0	1.0	565-1071-ND	1.79	13.57	102.38	ESMG250ELL682MP30S
	8200	0.30	2810	20.0	40.0	10.0	1.0	565-1072-ND	2.18	16.47	124.34	ESMG250ELL822MN40S
	8200	0.30	2810	22.0	35.0	10.0	1.0	565-1073-ND	2.23	16.87	127.31	ESMG250ELL822MP35S
	10000	0.34	3240	22.0	40.0	10.0	1.0	565-1074-ND	2.21	16.75	126.43	ESMG250ELL103MP40S
	12000	0.38	3240	22.0	40.0	10.0	1.0	565-1075-ND	2.30	17.42	131.46	ESMG250ELL123MP40S
	15000	0.44	3610	25.4	40.0	12.5	1.0	565-1076-ND	3.20	24.26	183.08	ESMG250ELL153MQ40S
35	4.7	0.14	40	5.0	11.0	2.0	0.5	565-1077-ND	.23	1.43	9.63	ESMG350ELL4R7ME11D
	10	0.14	59	5.0	11.0	2.0	0.5	565-1078-ND	.23	1.43	9.67	ESMG350ELL100ME11D
	22	0.14	88	5.0	11.0	2.0	0.5	565-1079-ND	.23	1.48	9.94	ESMG350ELL220ME11D
	33	0.14	108	5.0	11.0	2.0	0.5	565-1080-ND	.23	1.45	9.76	ESMG350ELL330ME11D
	47	0.14	130	5.0	11.0	2.0	0.5	565-1081-ND	.23	1.48	9.99	ESMG350ELL470ME11D
	100	0.14	210	6.3	11.0	2.5	0.5	565-1082-ND	.28	1.77	11.90	ESMG350ELL101MF11D
	220	0.14	385	8.0	11.5	3.5	0.6	565-1083-ND	1.87	14.19	107.12	ESMG350ELL221MHB5D
	330	0.14	490	10.0	12.5	5.0	0.6	565-1084-ND	.39	2.66	18.77	ESMG350ELL331MJC5S
	470	0.14	645	10.0	16.0	5.0	0.6	565-1085-ND	.36	2.65	18.91	ESMG350ELL471MJ16S
	1000	0.14	1145	12.5	20.0	5.0	0.6	565-1086-ND	.58	4.26	30.42	ESMG350ELL102MK20S
	2200	0.16	1785	16.0	25.0	7.5	0.8	565-1087-ND	.96	7.17	52.66	ESMG350ELL222ML25S
	2200	0.16	1670	20.0	20.0	10.0	1.0	565-1088-ND	1.51	11.35	85.12	ESMG350ELL222MN20S
	3300	0.18	2050	20.0	25.0	10.0	1.0	565-1089-ND	1.76	13.22	99.16	ESMG350ELL332MN25S
	3900	0.18	2310	20.0	30.0	10.0	1.0	565-1090-ND	1.98	14.87	111.51	ESMG350ELL392MN30S
	4700	0.20	2700	18.0	35.5	7.5	0.8	565-1091-ND	1.39	10.46	78.46	ESMG350ELL472MMP1S
	4700	0.20	2510	20.0	35.0	10.0	1.0	565-1092-ND	1.78	13.49	101.79	ESMG350ELL472MN35S
	4700	0.20	2380	22.0	30.0	10.0	1.0	565-1093-ND	1.78	13.49	101.79	ESMG350ELL472MP30S
	5600	0.22	2690	20.0	40.0	10.0	1.0	565-1094-ND	1.98	14.98	113.06	ESMG350ELL562MN40S

(Continued)

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
35	5600	0.22	2690	22.0	35.0	10.0	1.0	565-1095-ND	1.98	14.98	113.06	ESMG350ELL562MP35S
	6800	0.24	3090	22.0	40.0	10.0	1.0	565-1096-ND	2.20	16.67	125.81	ESMG350ELL682MP40S
	10000	0.32	3480	25.4	40.0	12.5	1.0	565-1097-ND	3.17	24.02	181.31	ESMG350ELL103MQ40S
50	0.10	0.12	1.3	5.0	11.0	2.0	0.5	565-1098-ND	.23	1.43	9.67	ESMG500ELLR10ME11D
	0.22	0.12	2.9	5.0	11.0	2.0	0.5	565-1099-ND	.23	1.47	9.90	ESMG500ELLR22ME11D
	0.33	0.12	4.3	5.0	11.0	2.0	0.5	565-1100-ND	.23	1.43	9.67	ESMG500ELLR33ME11D
	0.47	0.12	6.2	5.0	11.0	2.0	0.5	565-1101-ND	.23	1.43	9.67	ESMG500ELLR47ME11D
	1.0	0.12	17	5.0	11.0	2.0	0.5	565-1102-ND	.22	1.42	9.58	ESMG500ELL1R0ME11D
	2.2	0.12	28	5.0	11.0	2.0	0.5	565-1103-ND	.23	1.44	9.72	ESMG500ELL2R2ME11D
	3.3	0.12	35	5.0	11.0	2.0	0.5	565-1104-ND	.23	1.43	9.67	ESMG500ELL3R3ME11D
	4.7	0.12	41	5.0	11.0	2.0	0.5	565-1105-ND	.23	1.43	9.63	ESMG500ELL4R7ME11D
	10	0.12	60	5.0	11.0	2.0	0.5	565-1106-ND	.23	1.43	9.67	ESMG500ELL100ME11D
	22	0.12	95	5.0	11.0	2.0	0.5	565-1107-ND	.23	1.48	9.94	ESMG500ELL220ME11D
	33	0.12	125	5.0	11.0	2.0	0.5	565-1108-ND	.23	1.48	9.94	ESMG500ELL330ME11D
	47	0.12	155	6.3	11.0	2.5	0.5	565-1109-ND	.28	1.76	11.86	ESMG500ELL470MF11D
	100	0.12	260	8.0	11.5	3.5	0.6	565-1110-ND	.30	2.01	14.20	ESMG500ELL101MHB5D
	220	0.12	430	10.0	12.5	5.0	0.6	565-1111-ND	.39	2.66	18.77	ESMG500ELL221MJC5S
	330	0.12	585	10.0	16.0	5.0	0.6	565-1112-ND	.37	2.75	19.64	ESMG500ELL331MJ16S
	470	0.12	755	10.0	20.0	5.0	0.6	565-1113-ND	.44	3.27	23.36	ESMG500ELL471MJ20S
	1000	0.12	1340	12.5	25.0	5.0	0.6	565-1114-ND	.71	5.32	39.04	ESMG500ELL102MK25S
	1500	0.12	1570	20.0	20.0	10.0	1.0	565-1115-ND	1.57	11.75	88.13	ESMG500ELL152MN20S
	2200	0.14	1880	20.0	25.0	10.0	1.0	565-1116-ND	1.29	9.66	72.44	ESMG500ELL222MN25S
	2700	0.14	2150	20.0	30.0	10.0	1.0	565-1117-ND	1.98	14.87	111.51	ESMG500ELL272MN30S
	3300	0.16	2500	18.0	35.5	7.5	0.8	565-1118-ND	1.64	12.33	92.47	ESMG500ELL332MMP1S
	3300	0.16	2420	20.0	35.0	10.0	1.0	565-1119-ND	1.92	14.55	109.80	ESMG500ELL332MN35S
	3300	0.16	2420	22.0	30.0	10.0	1.0	565-1120-ND	1.92	14.51	109.50	ESMG500ELL332MP30S
	3900	0.16	2590	22.0	35.0	10.0	1.0	565-1121-ND	2.03	15.34	115.74	ESMG500ELL392MP35S
	4700	0.18	2960	22.0	40.0	10.0	1.0	565-1122-ND	2.29	17.30	130.57	ESMG500ELL472MP40S
	6800	0.22	3360	25.4	40.0	12.5	1.0	565-1123-ND	3.48	26.38	199.11	ESMG500ELL682MQ40S
63	10	0.09	65	5.0	11.0	2.0	0.5	565-1124-ND	.23	1.46	9.81	ESMG630ELL100ME11D
	22	0.09	100	5.0	11.0	2.0	0.5	565-1125-ND	.23	1.48	9.99	ESMG630ELL220ME11D
	33	0.09	140	6.3	11.0	2.5	0.5	565-1126-ND	.28	1.77	11.90	ESMG630ELL330MF11D
	47	0.09	170	6.3	11.0	2.5	0.5	565-1127-ND	.29	1.82	12.27	ESMG630ELL470MF11D
	100	0.09	300	10.0	12.5	5.0	0.6	565-1128-ND	.38	2.61	18.37	ESMG630ELL101MJC5S
	220	0.09	490	10.0	16.0	5.0	0.6	565-1129-ND	.37	2.75	19.64	ESMG630ELL221MJ16S
	330	0.09	710	10.0	20.0	5.0	0.6	565-1130-ND	.44	3.22	22.99	ESMG630ELL331MJ20S
	470	0.09	900	12.5	20.0	5.0	0.6	565-1131-ND	.61	4.52	32.26	ESMG630ELL471MK20S
	820	0.09	1370	20.0	20.0	10.0	1.0	565-1132-ND	1.64	12.33	92.47	ESMG630ELL821MN20S
	1000	0.09	1300	16.0	25.0	7.5	0.8	565-1133-ND	1.03	7.64	56.12	ESMG630ELL102ML25S
	1000	0.09	1600	20.0	25.0	10.0	1.0	565-1134-ND	1.60	12.02	90.15	ESMG630ELL102MN25S
	1500	0.09	1850	20.0	30.0	10.0	1.0	565-1135-ND	1.89	14.16	106.18	ESMG630ELL152MN30S
	2200	0.11	2330	20.0	35.0	10.0	1.0	565-1136-ND	1.91	14.43	108.92	ESMG630ELL222MN35S
	2200	0.11	2190	22.0	30.0	10.0	1.0	565-1137-ND	1.90	14.39	108.62	ESMG630ELL222MP30S
	3300	0.13	2810	22.0	40.0	10.0	1.0	565-1138-ND	2.39	18.08	136.49	ESMG630ELL332MP40S
	3900	0.13	3100	25.4	40.0	12.5	1.0	565-1139-ND	2.94	22.25	167.95	ESMG630ELL392MQ40S
100	0.10	0.08	2.1	5.0	11.0	2.0	0.5	565-1140-ND	.23	1.48	9.94	ESMG101ELLR10ME11D
	0.22	0.08	4.7	5.0	11.0	2.0	0.5	565-1141-ND	.23	1.45	9.76	ESMG101ELLR22ME11D
	0.33	0.08	7.0	5.0	11.0	2.0	0.5	565-1142-ND	.23	1.45	9.76	ESMG101ELLR33ME11D
	0.47	0.08	10	5.0	11.0	2.0	0.5	565-1143-ND	.25	1.56	10.54	ESMG101ELLR47ME11D
	1.0	0.08	21	5.0	11.0	2.0	0.5	565-1144-ND	.23	1.45	9.76	ESMG101ELL1R0ME11D
	2.2	0.08	30	5.0	11.0	2.0	0.5	565-1145-ND	.23	1.43	9.63	ESMG101ELL2R2ME11D
	3.3	0.08	40	5.0	11.0	2.0	0.5	565-1146-ND	.23	1.43	9.67	ESMG101ELL3R3ME11D
	4.7	0.08	45	5.0	11.0	2.0	0.5	565-1147-ND	.23	1.44	9.72	ESMG101ELL4R7ME11D
	10	0.08	75	6.3	11.0	2.5	0.5	565-1148-ND	.27	1.73	11.68	ESMG101ELL100MF11D
	22	0.08	130	8.0	11.5	3.5	0.6	565-1149-ND	.27	1.83	12.94	ESMG101ELL220MHB5D
	33	0.08	180	8.0	11.5	3.5	0.6	565-1150-ND	.28	1.90	13.42	ESMG101ELL330MHB5D
	47	0.08	230	10.0	12.5	5.0	0.6	565-1151-ND	.37	2.50	17.63	ESMG101ELL470MJC5S
	100	0.08	370	10.0	20.0	5.0	0.6	565-1152-ND	.76	5.65	41.47	ESMG101ELL101MJ20S
	220	0.08	620	12.5	25.0	5.0	0.6	565-1153-ND	1.09	8.16	61.21	ESMG101ELL221MK25S
	330	0.08	760	12.5	25.0	5.0	0.6	565-1154-ND	.72	5.35	39.30	ESMG101ELL331MK25S
	330	0.08	870	20.0	20.0	10.0	1.0	565-1155-ND	.78	5.79	42.53	ESMG101ELL331MN20S
	470	0.08	1000	16.0	25.0	7.5	0.8	565-1156-ND	.96	7.15	52.50	ESMG101ELL471ML25S
	680	0.08	1360	20.0	30.0	10.0	1.0	565-1157-ND	1.96	14.69	110.18	ESMG101ELL681MN30S
	820	0.08	1540	22.0	30.0	10.0	1.0	565-1158-ND	1.97	14.78	110.84	ESMG101ELL821MP30S
	1000	0.08	1380	18.0	40.0	7.5	0.8	565-1159-ND	1.49	11.19	83.91	ESMG101ELL102MM40S
	1000	0.08	1720	20.0	35.0	10.0	1.0	565-1160-ND	1.76	13.33	100.64	ESMG101ELL102MN35S
	1200	0.08	1980	22.0	40.0	10.0	1.0	565-1161-ND	2.11	15.96	120.48	ESMG101ELL122MP40S
	1800	0.08	2490	25.4	40.0	12.5	1.0	565-1162-ND	3.42	25.91	195.55	ESMG101ELL182MQ40S
160	3.3	0.20	40	6.3	11.0	2.5	0.5	565-1163-ND	.27	1.69	11.38	ESMG161ELL3R3MF11D
	4.7	0.20	48	6.3	11.0	2.5	0.5	565-1164-ND	.28	1.79	12.09	ESMG161ELL4R7MF11D
	10	0.20	94	10.0	12.5	5.0	0.6	565-1165-ND	.36	2.64	18.87	ESMG161ELL100MJC5S
	22	0.20	170	10.0	20.0	5.0	0.6	565-1166-ND	.43	3.17	22.64	ESMG161ELL220MJ20S
	33	0.20	205	10.0	20.0	5.0	0.6	565-1167-ND	.44	3.22	22.98	ESMG161ELL330MJ20S
	47	0.20	270	12.5	20.0	5.0	0.6	565-1168-ND	.61	4.46	31.89	ESMG161ELL470MK20S
	100	0.20	430	12.5	25.0	5.0	0.6	565-1169-ND	.67	5.00	36.71	ESMG161ELL101MK25S
	220	0.20	760	16.0	31.5	7.5	0.8	565-1170-ND	1.03	7.73	58.00	ESMG161ELL221MLN3S
	220	0.15	730	20.0	25.0	10.0	1.0	565-1171-ND	1.83	13.76	103.16	ESMG161ELL221MN25S
	330	0.20	995	18.0	35.5	7.5	0.8	565-1172-ND	1.33	9.99	74.95	ESMG161ELL331MMP1S
	330	0.15	920	20.0	30.0	10.0	1.0	565-1173-ND	1.87	14.15	106.83	ESMG161ELL331MN30S
	390	0.15	1160	22.0	30.0	10.0	1.0	565-1174-ND	1.94	14.67	110.68	ESMG161ELL391MP30S
	470	0.15	1340	20.0	40.0	10.0	1.0	565-1175-ND	2.28	17.26	130.28	ESMG161ELL471MN40S
	470	0.15	1340	22.0	35.0	10.0	1.0	565-1176-ND	2.36	17.85	134.72	ESMG161ELL471MP35S
	560	0.15	1470	22.0	40.0	10.0	1.0	565-1177-ND	2.50	18.91	142.73	ESMG161ELL561MP40S
	680	0.15	1570	25.4	40.0	12.5	1.0	565-1178-ND	3.35	25.33	191.17	ESMG161ELL681MQ40S
200	3.3	0.20	40	6.3	11.0	2.5	0.5	565-1179-ND	.29	1.83	12.32	ESMG201ELL3R3MF11D
	4.7	0.20	55	8.0	11.5	3.5	0.6	565-1180-ND	.32	2.16	15.22	ESMG201ELL4R7MHB5D
	10	0.20	94	10.0	12.5	5.0	0.6	565-1181-ND	.40	2.96	21.15	ESMG201ELL100MJC5S
	22	0.20	170	10.0	20.0	5.0	0.6	565-1182-ND	.47	3.43	24.50	ESMG201ELL220MJ20S
	33	0.20	205	10.0	20.0	5.0	0.6	565-1183-ND	.58	4.26	30.42	ESMG201ELL330MJ20S
	47	0.20	270	12.5	20.0	5.0	0.6	565-1184-ND	.61	4.56	33.47	ESMG201ELL470MK20S
	100	0.20	475	16.0	25.0	7.5	0.8	565-1185-ND	1.03	7.64	56.12	ESMG201ELL101ML25S
	100	0.15	460	20.0	20.0	10.0	1.0	565-1186-ND	1.58	11.84	88.79	ESMG201ELL101MN20S
	180	0.15	660	20.0	25.0	10.0	1.0	565-1187-ND	1.97	14.78	110.84	ESMG201ELL181MN25S
	220	0.20	810	18.0	35.5	7.5	0.8	565-1188-ND	1.66	12.46	93.46	ESMG201ELL221MMP1S
	220	0.15	750	20.0	30.0	10.0	1.0	565-1189-ND	1.90	14.39	108.62	ESMG201ELL221MN30S
	270	0.15	830	20.0	30.0	10.0	1.0	565-1190-ND	2.02	15.29	115.42	ESMG201ELL271MN30S
	330	0.15	1070	20.0	35.0	10.0	1.0	565-1191-ND	2.25	17.06	128.78	ESMG201ELL331MN35S
	330	0.15	1070	22.0	30.0	10.0	1.0	565-1192-ND	2.85	21.55	162.62	ESMG201ELL331MP30S
	390	0.15	1190	20.0	40.0	10.0	1.0	565-1193-ND	2.50	18.91	142.73	ESMG201ELL391MN40S
	390	0.15	1160	22.0	30.0	10.0	1.0	565-1194-ND	5.80	43.89	331.28	ESMG201ELL391MP30S
	470	0.15	1350	22.0	40.0	10.0	1.0	565-1195-ND	2.77	20.95	158.15	ESMG201ELL471MP40S
	560	0.15	1430	22.0	40.0	10.0	1.0	565-1196-ND	3.33	25.20	190.20	ESMG201ELL561MP40S
	680	0.15	1620	25.4	40.0	12.5	1.0	565-1197-ND	4.03	30.51	230.28	ESMG201ELL681MQ40S
250	2.2	0.20	32	6.3	11.0	2.5	0.5	565-1198-ND	.29	1.82	12.27	ESMG251ELL2R2MF11D
	3.3	0.20	46	8.0	11.5	3.5	0.6	565-1199-ND	.30	2.06	14.53	ESMG251ELL3R3MHB5D
	4.7	0.20	55	8.0	11.5	3.5	0.6	565-1200-ND	.32	2.16	15.22	ESMG251ELL4R7MHB5D
	10	0.20	105	10.0	16.0	5.0	0.6	565-1201-ND	.44	3.22	22.99	ESMG251ELL100MJ16S

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SMG Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
250	22	0.20	170	10.0	20.0	5.0	0.6	565-1202-ND	.52	3.84	27.44	ESMG251ELL220MJ20S
	33	0.20	230	12.5	20.0	5.0	0.6	565-1203-ND	.62	4.61	33.82	ESMG251ELL330MK20S
	47	0.20	295	12.5	25.0	5.0	0.6	565-1204-ND	.77	5.70	41.84	ESMG251ELL470MK25S
	82	0.15	420	20.0	20.0	10.0	1.0	565-1205-ND	1.82	13.62	102.17	ESMG251ELL820MN20S
	100	0.20	515	16.0	31.5	7.5	0.8	565-1206-ND	1.20	8.99	67.44	ESMG251ELL101MLN3S
	120	0.15	530	20.0	25.0	10.0	1.0	565-1207-ND	1.91	14.47	109.21	ESMG251ELL121MN25S
	180	0.15	680	20.0	30.0	10.0	1.0	565-1208-ND	1.58	11.84	88.79	ESMG251ELL181MN30S
	220	0.20	825	18.0	40.0	7.5	0.8	565-1209-ND	1.96	14.86	112.18	ESMG251ELL221MM40S
	220	0.15	780	20.0	35.0	10.0	1.0	565-1210-ND	2.19	16.59	125.22	ESMG251ELL221MN35S
	220	0.15	820	22.0	30.0	10.0	1.0	565-1211-ND	2.16	16.32	123.16	ESMG251ELL221MP30S
	270	0.15	880	20.0	40.0	10.0	1.0	565-1212-ND	2.36	17.89	135.02	ESMG251ELL271MN40S
	270	0.15	880	22.0	35.0	10.0	1.0	565-1213-ND	1.80	13.60	102.68	ESMG251ELL271MP35S
	330	0.15	1060	22.0	40.0	10.0	1.0	565-1214-ND	2.77	20.95	158.15	ESMG251ELL331MP40S
	390	0.15	1200	25.4	40.0	12.5	1.0	565-1215-ND	3.82	28.94	218.39	ESMG251ELL391MQ40S
350	0.47	0.24	15	6.3	11.0	2.5	0.5	565-1216-ND	.32	2.15	15.13	ESMG351ELLR47MF11D
	1.0	0.24	22	6.3	11.0	2.5	0.5	565-1217-ND	.32	2.19	15.42	ESMG351ELL1R0MF11D
	2.2	0.24	38	8.0	11.5	3.5	0.6	565-1218-ND	.35	2.61	18.65	ESMG351ELL2R2MHB5D
	3.3	0.24	46	8.0	11.5	3.5	0.6	565-1219-ND	.34	2.54	18.14	ESMG351ELL3R3MHB5D
	4.7	0.24	65	10.0	12.5	5.0	0.6	565-1220-ND	.41	3.01	21.52	ESMG351ELL4R7MJC5S
	10	0.24	115	10.0	20.0	5.0	0.6	565-1221-ND	.50	3.69	26.34	ESMG351ELL100MJ20S
	22	0.24	185	12.5	20.0	5.0	0.6	565-1222-ND	.70	5.17	38.00	ESMG351ELL220MK20S
	33	0.24	275	16.0	25.0	7.5	0.8	565-1223-ND	1.00	7.45	54.74	ESMG351ELL330ML25S
	47	0.24	325	16.0	25.0	7.5	0.8	565-1224-ND	1.11	8.33	62.44	ESMG351ELL470ML25S
	47	0.15	310	20.0	20.0	10.0	1.0	565-1225-ND	1.76	13.22	99.16	ESMG351ELL470MN20S
	100	0.15	500	20.0	30.0	10.0	1.0	565-1226-ND	2.19	16.55	124.92	ESMG351ELL101MN30S
	220	0.15	890	25.4	40.0	12.5	1.0	565-1227-ND	4.06	30.71	231.75	ESMG351ELL221MQ40S
400	1.0	0.24	22	6.3	11.0	2.5	0.5	565-1228-ND	.32	2.19	15.42	ESMG401ELL1R0MF11D
	3.3	0.24	54	10.0	12.5	5.0	0.6	565-1229-ND	.42	3.06	21.89	ESMG401ELL3R3MJC5S
	4.7	0.24	71	10.0	16.0	5.0	0.6	565-1230-ND	.44	3.27	23.36	ESMG401ELL4R7MJ16S
	10	0.24	115	10.0	20.0	5.0	0.6	565-1231-ND	.52	3.84	27.44	ESMG401ELL100MJ20S
	22	0.24	205	12.5	25.0	5.0	0.6	565-1232-ND	.79	5.89	43.22	ESMG401ELL220MK25S
	33	0.24	275	16.0	25.0	7.5	0.8	565-1233-ND	1.00	7.52	56.41	ESMG401ELL330ML25S
	33	0.15	260	20.0	20.0	10.0	1.0	565-1234-ND	1.01	7.57	56.75	ESMG401ELL330MN20S
	47	0.24	350	16.0	31.5	7.5	0.8	565-1235-ND	1.25	9.39	70.45	ESMG401ELL470MLN3S
	56	0.15	350	20.0	25.0	10.0	1.0	565-1236-ND	1.79	13.57	102.38	ESMG401ELL560MN25S
	68	0.15	420	20.0	30.0	10.0	1.0	565-1237-ND	1.42	10.64	79.79	ESMG401ELL680MN30S
	100	0.15	520	20.0	35.0	10.0	1.0	565-1238-ND	1.97	14.94	112.77	ESMG401ELL101MN35S
	100	0.15	520	22.0	30.0	10.0	1.0	565-1239-ND	2.36	17.89	135.02	ESMG401ELL101MP30S
	120	0.15	580	20.0	40.0	10.0	1.0	565-1240-ND	2.68	20.33	153.41	ESMG401ELL121MN40S
	120	0.15	580	22.0	35.0	10.0	1.0	565-1241-ND	2.64	20.01	151.03	ESMG401ELL121MP35S
	180	0.15	790	25.4	40.0	12.5	1.0	565-1242-ND	3.95	29.92	225.81	ESMG401ELL181MQ40S
450	0.47	0.24	13	10.0	12.5	5.0	0.6	565-1243-ND	.42	3.06	21.89	ESMG451ELLR47MJC5S
	1.0	0.24	19	10.0	12.5	5.0	0.6	565-1244-ND	.41	3.01	21.52	ESMG451ELL1R0MJC5S
	2.2	0.24	32	10.0	12.5	5.0	0.6	565-1245-ND	.42	3.06	21.89	ESMG451ELL2R2MJC5S
	3.3	0.24	44	10.0	16.0	5.0	0.6	565-1246-ND	.47	3.48	24.87	ESMG451ELL3R3MJ16S
	4.7	0.24	56	10.0	20.0	5.0	0.6	565-1247-ND	.51	3.79	27.08	ESMG451ELL4R7MJ20S
	10	0.24	91	12.5	20.0	5.0	0.6	565-1248-ND	.58	4.32	31.74	ESMG451ELL100MK20S
	22	0.24	165	16.0	25.0	7.5	0.8	565-1249-ND	1.04	7.74	56.85	ESMG451ELL220ML25S
	22	0.20	180	20.0	20.0	10.0	1.0	565-1250-ND	1.69	12.69	95.15	ESMG451ELL220MN20S
	33	0.24	215	16.0	31.5	7.5	0.8	565-1251-ND	1.48	11.13	83.46	ESMG451ELL330MLN3S
	33	0.20	240	20.0	25.0	10.0	1.0	565-1252-ND	1.76	13.29	100.29	ESMG451ELL330MN25S
	47	0.24	265	16.0	35.5	7.5	0.8	565-1253-ND	1.67	12.51	93.79	ESMG451ELL470MLP1S
	47	0.20	290	20.0	25.0	10.0	1.0	565-1254-ND	1.94	14.70	110.98	ESMG451ELL470MN25S
	56	0.20	320	20.0	30.0	10.0	1.0	565-1255-ND	2.47	18.72	141.26	ESMG451ELL560MN30S
	68	0.20	370	20.0	35.0	10.0	1.0	565-1256-ND	2.49	18.83	142.14	ESMG451ELL680MN35S
	68	0.20	370	22.0	30.0	10.0	1.0	565-1257-ND	2.58	19.54	147.47	ESMG451ELL680MP30S
	82	0.20	420	20.0	40.0	10.0	1.0	565-1258-ND	2.55	19.31	145.70	ESMG451ELL820MN40S
	82	0.20	420	22.0	35.0	10.0	1.0	565-1259-ND	2.55	19.34	146.00	ESMG451ELL820MP35S
	100	0.20	470	22.0	40.0	10.0	1.0	565-1260-ND	3.01	22.80	172.10	ESMG451ELL101MP40S
	120	0.20	520	25.4	40.0	12.5	1.0	565-1261-ND	4.15	31.46	237.40	ESMG451ELL121MQ40S

KMG Series Aluminum Electrolytic Capacitors (Radial Lead)

RoHS COMPLIANT

General Purpose 105°C

Features: Miniature, General Purpose, Solvent Proof (except 350-450V), 105°C Maximum Temperature (1000 ~ 2000 Hour Life)

Specifications: • **Operating Temperature:** -55°C ~ 105°C (6.3-100V), -40°C ~ 105°C (160-400V), -25°C ~ 105°C (450V) • **Capacitance Tolerance:** ±20%

Leakage Current @ 20°C:

DC Voltage	Test Time	Leakage Current (µA)	
6.3-100V	After 1 Minute	I = 0.03CV or 4µA,whichever is greater	
160-450V	After 1 Minute	CV≤ 1,000: I=0.1CV +40	CV>1,000: I=0.04CV +100
	After 5 Minutes	CV≤ 1,000: I=0.03CV +15	CV>1,000: I=0.02CV +25

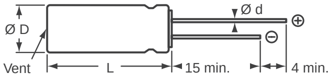

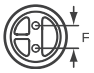

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
6.3	47	0.34	64	5	11	2.0	0.5	565-1262-ND	.23	1.46	9.85	EKMG6R3ELL470ME11D
	100	0.34	94	5	11	2.0	0.5	565-1263-ND	.23	1.45	9.76	EKMG6R3ELL101ME11D
	220	0.34	140	5	11	2.0	0.5	565-1264-ND	.24	1.53	10.30	EKMG6R3ELL221ME11D
	330	0.34	190	6.3	11	2.5	0.5	565-1265-ND	.23	1.56	11.03	EKMG6R3ELL331MF11D
	470	0.34	230	6.3	11	2.5	0.5	565-1266-ND	.25	1.61	10.87	EKMG6R3ELL471MF11D
	1000	0.34	380	8	11.5	3.5	0.6	565-1267-ND	.28	1.87	13.20	EKMG6R3ELL102MHB5D
	2200	0.36	710	10	20	5.0	0.6	565-1268-ND	.38	2.78	19.89	EKMG6R3ELL222MJ20S
	3300	0.38	840	10	20	5.0	0.6	565-1269-ND	.40	2.97	21.25	EKMG6R3ELL332MJ20S
	4700	0.40	1090	12.5	20	5.0	0.6	565-1270-ND	.55	4.03	28.79	EKMG6R3ELL472MK20S
	6800	0.44	1350	12.5	25	5.0	0.6	565-1271-ND	.66	4.91	36.07	EKMG6R3ELL682MK25S
	10000	0.52	1650	16	25	7.5	0.8	565-1272-ND	.93	6.93	50.90	EKMG6R3ELL103ML25S
	20000	0.76	2350	18	40	7.5	0.8	565-1273-ND	1.58	11.84	88.84	EKMG6R3ELL223MM40S
10	22	0.24	46	5	11	2.0	0.5	565-1274-ND	.23	1.47	9.90	EKMG100ELL220ME11D
	33	0.24	57	5	11	2.0	0.5	565-1275-ND	.23	1.45	9.76	EKMG100ELL330ME11D
	47	0.24	68	5	11	2.0	0.5	565-1276-ND	.23	1.46	9.85	EKMG100ELL470ME11D
	100	0.24	100	5	11	2.0	0.5	565-1277-ND	.23	1.45	9.76	EKMG100ELL101ME11D
	220	0.24	170	6.3	11	2.5	0.5	565-1278-ND	.31	2.11	14.85	EKMG100ELL221MF11D
	330	0.24	200	6.3	11	2.5	0.5	565-1279-ND	.27	1.81	12.77	EKMG100ELL331MF11D
	470	0.24	250	8	11.5	3.5	0.6	565-1280-ND	.29	2.00	14.08	EKMG100ELL471MHB5D
	1000	0.24	460	10	12.5	5.0	0.6	565-1281-ND	.36	2.46	17.35	EKMG100ELL102MJC5S
	2200	0.26	760	10	20	5.0	0.6	565-1282-ND	.39	2.88	20.57	EKMG100ELL222MJ20S
	3300	0.28	1000	12.5	20	5.0	0.6	565-1283-ND	.53	3.89	27.77	EKMG100ELL332MK20S
	4700	0.30	1260	12.5	25	5.0	0.6	565-1284-ND	.62	4.61	33.84	EKMG100ELL472MK25S
	6800	0.34	1570	16	25	7.5	0.8	565-1285-ND	1.52	11.39	85.43	EKMG100ELL682ML25S
	10000	0.42	1890	16	35.5	7.5	0.8	565-1286-ND	1.16	8.68	65.09	EKMG100ELL103MLP1S
	15000	0.52	2180	18	35.5	7.5	0.8	565-1287-ND	1.42	10.65	79.90	EKMG100ELL153MMP1S

(Continued)

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
16	10	0.20	34	5	11	2.0	0.5	565-1288-ND	.23	1.43	9.67	EKMG160ELL100ME11D
	22	0.20	51	5	11	2.0	0.5	565-1289-ND	.23	1.47	9.90	EKMG160ELL220ME11D
	33	0.20	63	5	11	2.0	0.5	565-1290-ND	.23	1.45	9.76	EKMG160ELL330ME11D
	47	0.20	75	5	11	2.0	0.5	565-1291-ND	.23	1.46	9.85	EKMG160ELL470ME11D
	100	0.20	110	5	11	2.0	0.5	565-1292-ND	.29	1.82	12.29	EKMG160ELL101ME11D
	220	0.20	180	6.3	11	2.5	0.5	565-1293-ND	.27	1.81	12.77	EKMG160ELL221MF11D
	330	0.20	260	8	11.5	3.5	0.6	565-1294-ND	.34	2.54	18.12	EKMG160ELL331MHB5D
	470	0.20	310	8	11.5	3.5	0.6	565-1295-ND	.27	1.85	13.01	EKMG160ELL471MHB5D
	1000	0.20	560	10	16	5.0	0.6	565-1296-ND	.58	4.28	30.58	EKMG160ELL102MJ16S
	2200	0.22	920	12.5	20	5.0	0.6	565-1297-ND	.70	5.23	38.37	EKMG160ELL222MK20S
	3300	0.24	1170	12.5	25	5.0	0.6	565-1298-ND	.63	4.68	34.34	EKMG160ELL332MK25S
	4700	0.26	1480	16	25	7.5	0.8	565-1299-ND	.87	6.45	47.38	EKMG160ELL472ML25S
	6800	0.30	1780	16	31.5	7.5	0.8	565-1300-ND	1.07	7.94	58.31	EKMG160ELL682MLN3S
	10000	0.38	2060	18	35.5	7.5	0.8	565-1301-ND	1.40	10.49	78.68	EKMG160ELL103MMP1S
25	4.7	0.16	25	5	11	2.0	0.5	565-1302-ND	.23	1.43	9.63	EKMG250ELL4R7ME11D
	10	0.16	36	5	11	2.0	0.5	565-1303-ND	.25	1.60	10.77	EKMG250ELL100ME11D
	22	0.16	54	5	11	2.0	0.5	565-1304-ND	.23	1.47	9.90	EKMG250ELL220ME11D
	33	0.16	67	5	11	2.0	0.5	565-1305-ND	.23	1.45	9.76	EKMG250ELL330ME11D
	47	0.16	80	5	11	2.0	0.5	565-1306-ND	.21	1.36	9.15	EKMG250ELL470ME11D
	100	0.16	130	6.3	11	2.5	0.5	565-1307-ND	.25	1.60	10.79	EKMG250ELL101MF11D
	220	0.16	230	8	11.5	3.5	0.6	565-1308-ND	.35	2.39	16.87	EKMG250ELL221MHB5D
	330	0.16	310	8	11.5	3.5	0.6	565-1309-ND	.28	1.88	13.24	EKMG250ELL331MHB5D
	470	0.16	380	10	12.5	5.0	0.6	565-1310-ND	.46	3.42	24.43	EKMG250ELL471MJC5S
	1000	0.16	680	10	20	5.0	0.6	565-1311-ND	.40	2.93	20.91	EKMG250ELL102MJ20S
	2200	0.18	1090	12.5	25	5.0	0.6	565-1312-ND	1.34	10.04	75.28	EKMG250ELL222MK25S
	3300	0.20	1400	16	25	7.5	0.8	565-1313-ND	1.23	9.23	69.22	EKMG250ELL332ML25S
	4700	0.22	1710	16	31.5	7.5	0.8	565-1314-ND	1.01	7.57	56.75	EKMG250ELL472MLN3S
	6800	0.26	2040	18	35.5	7.5	0.8	565-1315-ND	1.45	10.86	81.43	EKMG250ELL682MMP1S
35	4.7	0.14	28	5	11	2.0	0.5	565-1316-ND	.23	1.43	9.63	EKMG350ELL4R7ME11D
	10	0.14	41	5	11	2.0	0.5	565-1317-ND	.23	1.43	9.67	EKMG350ELL100ME11D
	22	0.14	61	5	11	2.0	0.5	565-1318-ND	.23	1.47	9.90	EKMG350ELL220ME11D
	33	0.14	75	5	11	2.0	0.5	565-1319-ND	.25	1.58	10.67	EKMG350ELL330ME11D
	47	0.14	90	5	11	2.0	0.5	565-1320-ND	.28	1.80	12.12	EKMG350ELL470ME11D
	100	0.14	150	6.3	11	2.5	0.5	565-1321-ND	.24	1.63	11.51	EKMG350ELL101MF11D
	220	0.14	270	8	11.5	3.5	0.6	565-1322-ND	.42	3.12	22.30	EKMG350ELL221MHB5D
	330	0.14	350	10	12.5	5.0	0.6	565-1323-ND	.36	2.46	17.35	EKMG350ELL331MJC5S
	470	0.14	460	10	16	5.0	0.6	565-1324-ND	.40	2.73	19.22	EKMG350ELL471MJ16S
	1000	0.14	810	12.5	20	5.0	0.6	565-1325-ND	.54	3.98	28.45	EKMG350ELL102MK20S
	2200	0.16	1260	16	25	7.5	0.8	565-1326-ND	.91	6.76	49.62	EKMG350ELL222ML25S
	4700	0.20	1910	18	35.5	7.5	0.8	565-1327-ND	1.45	10.86	81.43	EKMG350ELL472MMP1S
50	0.10	0.12	1.3	5	11	2.0	0.5	565-1328-ND	.22	1.42	9.58	EKMG500ELLR10ME11D
	0.22	0.12	2.9	5	11	2.0	0.5	565-1329-ND	.23	1.47	9.90	EKMG500ELLR22ME11D
	0.33	0.12	4.3	5	11	2.0	0.5	565-1330-ND	.23	1.48	9.94	EKMG500ELLR33ME11D
	0.47	0.12	6.2	5	11	2.0	0.5	565-1331-ND	.21	1.33	8.98	EKMG500ELLR47ME11D
	1.0	0.12	13	5	11	2.0	0.5	565-1332-ND	.27	1.72	11.60	EKMG500ELL1R0ME11D
	2.2	0.12	20	5	11	2.0	0.5	565-1333-ND	.27	1.72	11.60	EKMG500ELL2R2ME11D
	3.3	0.12	25	5	11	2.0	0.5	565-1334-ND	.21	1.33	8.98	EKMG500ELL3R3ME11D
	4.7	0.12	30	5	11	2.0	0.5	565-1335-ND	.27	1.72	11.60	EKMG500ELL4R7ME11D
	10	0.12	40	5	11	2.0	0.5	565-1336-ND	.21	1.33	8.98	EKMG500ELL100ME11D
	22	0.12	65	5	11	2.0	0.5	565-1337-ND	.25	1.69	11.94	EKMG500ELL220ME11D
	33	0.12	90	5	11	2.0	0.5	565-1338-ND	.21	1.36	9.19	EKMG500ELL330ME11D
	47	0.12	110	6.3	11	2.5	0.5	565-1339-ND	.23	1.57	11.10	EKMG500ELL470MF11D
	100	0.12	180	8	11.5	3.5	0.6	565-1340-ND	.28	1.88	13.24	EKMG500ELL101MHB5D
	220	0.12	300	10	12.5	5.0	0.6	565-1341-ND	.36	2.46	17.35	EKMG500ELL221MJC5S
	330	0.12	410	10	16	5.0	0.6	565-1342-ND	.34	2.54	18.15	EKMG500ELL331MJ16S
	470	0.12	530	10	20	5.0	0.6	565-1343-ND	.42	3.07	21.93	EKMG500ELL471MJ20S
	1000	0.12	950	12.5	25	5.0	0.6	565-1344-ND	.69	5.13	37.70	EKMG500ELL102MK25S
	2200	0.14	1470	16	35.5	7.5	0.8	565-1345-ND	1.50	11.08	79.13	EKMG500ELL222MLP1S
	3300	0.16	1770	18	35.5	7.5	0.8	565-1346-ND	1.55	11.64	87.28	EKMG500ELL332MMP1S
63	10	0.10	46	5	11	2.0	0.5	565-1347-ND	.23	1.45	9.76	EKMG630ELL100ME11D
	22	0.10	71	5	11	2.0	0.5	565-1348-ND	.27	1.72	11.60	EKMG630ELL220ME11D
	33	0.10	100	6.3	11	2.5	0.5	565-1349-ND	.26	1.64	11.04	EKMG630ELL330MF11D
	47	0.10	120	6.3	11	2.5	0.5	565-1350-ND	.27	1.68	11.34	EKMG630ELL470MF11D
	100	0.10	215	10	12.5	5.0	0.6	565-1351-ND	.35	2.59	18.47	EKMG630ELL101MJC5S
	220	0.10	335	10	16	5.0	0.6	565-1352-ND	.35	2.59	18.49	EKMG630ELL221MJ16S
	330	0.10	510	10	20	5.0	0.6	565-1353-ND	.40	2.97	21.25	EKMG630ELL331MJ20S
	470	0.10	640	12.5	20	5.0	0.6	565-1354-ND	.57	4.18	29.84	EKMG630ELL471MK20S
	1000	0.10	930	16	25	7.5	0.8	565-1355-ND	1.00	7.46	54.76	EKMG630ELL102ML25S
100	0.10	0.08	1.5	5	11	2.0	0.5	565-1356-ND	.24	1.51	10.17	EKMG101ELLR10ME11D
	0.22	0.08	3.4	5	11	2.0	0.5	565-1357-ND	.23	1.43	9.67	EKMG101ELLR22ME11D
	0.33	0.08	5.0	5	11	2.0	0.5	565-1358-ND	.23	1.43	9.67	EKMG101ELLR33ME11D
	0.47	0.08	7.1	5	11	2.0	0.5	565-1359-ND	.23	1.57	11.04	EKMG101ELLR47ME11D
	1.0	0.08	15	5	11	2.0	0.5	565-1360-ND	.25	1.69	11.94	EKMG101ELL1R0ME11D
	2.2	0.08	21	5	11	2.0	0.5	565-1361-ND	.28	1.79	12.08	EKMG101ELL2R2ME11D
	3.3	0.08	29	5	11	2.0	0.5	565-1362-ND	.33	2.21	15.61	EKMG101ELL3R3ME11D
	4.7	0.08	32	5	11	2.0	0.5	565-1363-ND	.25	1.69	11.94	EKMG101ELL4R7ME11D
	10	0.08	54	6.3	11	2.5	0.5	565-1364-ND	.33	2.27	16.01	EKMG101ELL100MF11D
	22	0.08	93	8	11.5	3.5	0.6	565-1365-ND	.52	3.86	27.57	EKMG101ELL220MHB5D
	33	0.08	130	8	11.5	3.5	0.6	565-1366-ND	.28	1.90	13.38	EKMG101ELL330MHB5D
	47	0.08	165	10	12.5	5.0	0.6	565-1367-ND	.36	2.46	17.35	EKMG101ELL470MJC5S
	100	0.08	265	10	20	5.0	0.6	565-1368-ND	.40	2.93	20.91	EKMG101ELL101MJ20S
	220	0.08	440	12.5	25	5.0	0.6	565-1369-ND	1.28	9.61	72.07	EKMG101ELL221MK25S
	330	0.08	540	16	25	7.5	0.8	565-1370-ND	.87	6.50	47.70	EKMG101ELL331ML25S
	470	0.08	715	16	31.5	7.5	0.8	565-1371-ND	1.12	8.39	62.93	EKMG101ELL471MLN3S
	1000	0.08	985	18	40	7.5	0.8	565-1372-ND	1.74	13.04	97.80	EKMG101ELL102MM40S
160	3.3	0.20	28	6.3	11	2.5	0.5	565-1373-ND	.27	1.69	11.38	EKMG161ELL3R3MF11D
	4.7	0.20	34	6.3	11	2.5	0.5	565-1374-ND	.26	1.66	11.17	EKMG161ELL4R7MF11D
	10	0.20	67	10	12.5	5.0	0.6	565-1375-ND	.36	2.68	19.13	EKMG161ELL100MJC5S
	22	0.20	120	10	20	5.0	0.6	565-1376-ND	.45	3.31	23.66	EKMG161ELL220MJ20S
	33	0.20	145	10	20	5.0	0.6	565-1377-ND	.56	4.19	30.80	EKMG161ELL330MJ20S
	47	0.20	195	12.5	20	5.0	0.6	565-1378-ND	.59	4.32	30.86	EKMG161ELL470MK20S
	100	0.20	335	16	25	7.5	0.8	565-1379-ND	1.83	13.75	103.15	EKMG161ELL101ML25S
	220	0.20	540	16	31.5	7.5	0.8	565-1380-ND	1.25	9.38	70.33	EKMG161ELL221MLN3S
	330	0.20	705	18	35.5	7.5	0.8	565-1381-ND	1.65	12.38	92.85	EKMG161ELL331MMP1S
200	3.3	0.20	28	6.3	11	2.5	0.5	565-1382-ND	.29	1.83	12.32	EKMG201ELL3R3MF11D
	4.7	0.20	39	8	11.5	5.0	0.6	565-1383-ND	.32	2.15	15.17	EKMG201ELL4R7MHB5D
	10	0.20	74	10	16	5.0	0.6	565-1384-ND	.43	3.17	22.62	EKMG201ELL100MJ16S
	22	0.20	120	10	20	5.0	0.6	565-1385-ND	.49	3.58	25.60	EKMG201ELL220MJ20S
	33	0.20	160	12.5	20	5.0	0.6	565-1386-ND	.59	4.37	32.09	EKMG201ELL330MK20S
	47	0.20	195	12.5	20	5.0	0.6	565-1387-ND	.63	4.70	34.51	EKMG201ELL470MK20S
	100	0.20	335	16	25	7.5	0.8	565-1388-ND	1.02	7.59	55.77	EKMG201ELL101ML25S
	220	0.20	575	18	35.5	7.5	0.8	565-1389-ND	1.69	12.71	95.32	EKMG201ELL221MMP1S
250	2.2	0.20	23	6.3	11	2.5	0.5	565-1390-ND	.27	1.68	11.34	EKMG251ELL2R2MF11D
	3.3	0.20	32	8	11	3.5	0.6	565-1391-ND	.28	1.90	13.42	EKMG251ELL3R3MHB5D
	4.7	0.20	39	8	11.5	3.5	0.6	565-1392-ND	.29	1.99	14.02	EKMG251ELL4R7MF11D
	10	0.20	74	10	16	5.0	0.6	565-1393-ND	.58	4.28	30.59	EKMG251ELL100MJ16S
	22	0.20	130	12.5	20	5.0	0.6	565-1394-ND	.57	4.23	30.18	EKMG251ELL220MK20S

(Continued)

KMG Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @85°C 120Hz	Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
				øD	L	F	ød		1	10	100	
250	33	0.20	160	12.5	20	5.0	0.6	565-1395-ND	.61	4.52	33.16	EKMG251ELL330MK20S
	47	0.20	210	12.5	25	5.0	0.6	565-1396-ND	.73	5.44	39.94	EKMG251ELL470MK25S
	100	0.20	365	16	31.5	7.5	0.8	565-1397-ND	1.18	8.88	66.63	EKMG251ELL101MLN3S
	220	0.20	585	18	40	7.5	0.8	565-1398-ND	1.83	13.70	102.72	EKMG251ELL221MM40S
350	0.47	0.24	11	6.3	11	2.5	0.5	565-1399-ND	.29	1.99	14.06	EKMG351ELLR47MF11D
	1.0	0.24	15	6.3	11	2.5	0.5	565-1400-ND	.32	2.18	15.34	EKMG351ELL1R0MF11D
	2.2	0.24	26	8	11.5	3.5	0.6	565-1401-ND	.35	2.60	18.58	EKMG351ELL2R2MHB5D
	3.3	0.24	38	10	12.5	5.0	0.6	565-1402-ND	.41	3.01	21.52	EKMG351ELL3R3MJC5S
	4.7	0.24	50	10	16	5.0	0.6	565-1403-ND	.44	3.22	22.99	EKMG351ELL4R7MJ16S
	10	0.24	80	10	20	5.0	0.6	565-1404-ND	.50	3.65	26.09	EKMG351ELL100MJ20S
	22	0.24	130	12.5	20	5.0	0.6	565-1405-ND	.66	4.91	36.07	EKMG351ELL220MK20S
	33	0.24	195	16	25	7.5	0.8	565-1406-ND	1.05	7.87	59.05	EKMG351ELL330ML25S
	47	0.24	230	16	25	7.5	0.8	565-1407-ND	1.23	9.21	69.10	EKMG351ELL470ML25S
400	1.0	0.24	15	6.3	11	2.5	0.5	565-1408-ND	.32	2.18	15.34	EKMG401ELL1R0MF11D
	2.2	0.24	26	8	11.5	3.5	0.6	565-1409-ND	.32	2.15	15.14	EKMG401ELL2R2MHB5D
	3.3	0.24	38	10	12.5	5.0	0.6	565-1410-ND	.39	2.88	20.57	EKMG401ELL3R3MJC5S
	4.7	0.24	50	10	16	5.0	0.6	565-1411-ND	.40	2.97	21.25	EKMG401ELL4R7MJ16S
	10	0.24	80	10	20	5.0	0.6	565-1412-ND	.51	3.75	26.75	EKMG401ELL100MJ20S
	22	0.24	145	12.5	25	5.0	0.6	565-1413-ND	.71	5.26	38.66	EKMG401ELL220MK25S
	33	0.24	195	16	25	7.5	0.8	565-1414-ND	1.03	7.69	56.50	EKMG401ELL330ML25S
	47	0.24	250	16	31.5	7.5	0.8	565-1415-ND	1.17	8.80	66.02	EKMG401ELL470MLN3S
	100	0.24	350	16	40	7.5	0.8	565-1416-ND	1.95	14.74	111.27	EKMG401ELL101ML40S
450	1.0	0.24	13	10	12.5	5.0	0.6	565-1417-ND	.39	2.88	20.57	EKMG451ELL1R0MJC5S
	2.2	0.24	23	10	12.5	5.0	0.6	565-1418-ND	.39	2.88	20.57	EKMG451ELL2R2MJC5S
	3.3	0.24	31	10	16	5.0	0.6	565-1419-ND	.44	3.22	22.98	EKMG451ELL3R3MJ16S
	4.7	0.24	40	10	20	5.0	0.6	565-1420-ND	.52	3.84	27.43	EKMG451ELL4R7MJ20S
	10	0.24	65	12.5	20	5.0	0.6	565-1421-ND	.67	4.96	36.39	EKMG451ELL100MK20S
	22	0.24	115	16	25	7.5	0.8	565-1422-ND	1.03	7.68	56.40	EKMG451ELL220ML25S
	33	0.24	155	16	31.5	7.5	0.8	565-1423-ND	1.51	11.35	85.14	EKMG451ELL330MLN3S

KXG Series Aluminum Electrolytic Capacitors (Radial Lead)

RoHS COMPLIANT

Long Life High Ripple Current 105°C

Features: Miniature, Long Life (8-10K Hours), For Electronic Ballasts, 105°C Maximum Temperature
Specifications: • **Operating Temperature:** -40°C ~ 105°C (160-400V), -25°C ~ 105°C (450V), • **Capacitance Tolerance:** ±20%

Leakage Current @ 20°C:

CV Product	After 1 Minute	After 5 Minutes
CV ≤ 1,000	I = 0.1CV +40µA	I = 0.03CV +15µA
CV > 1,000	I = 0.04CV +100µA	I=0.02CV +25µA

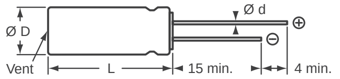

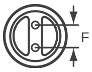

Rated W.V. (VDC)	Cap. (µF)	Tan δ	Rated Ripple Current (mA RMS) @105°C		Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			120Hz	100KHz	øD	L	F	ød		1	10	100	
160	22	0.20	200	500	10.0	20.0	5.0	0.6	565-1424-ND	.43	3.15	22.50	EKXG161ELL220MJ20S
	33	0.20	250	625	10.0	20.0	5.0	0.6	565-1425-ND	.43	3.15	22.50	EKXG161ELL330MJ20S
	47	0.20	300	750	10.0	20.0	5.0	0.6	565-1426-ND	.52	3.85	27.50	EKXG161ELL470MJ20S
	100	0.20	620	1395	12.5	25.0	5.0	0.6	565-1427-ND	.82	6.08	44.65	EKXG161ELL101MK25S
	100	0.20	630	1420	16.0	20.0	7.5	0.8	565-1428-ND	.87	6.47	47.51	EKXG161ELL101ML20S
	150	0.20	770	1735	16.0	20.0	7.5	0.8	565-1429-ND	.99	7.36	54.05	EKXG161ELL151ML20S
	220	0.20	1020	2295	16.0	25.0	7.5	0.8	565-1430-ND	1.12	8.40	63.00	EKXG161ELL221ML25S
	330	0.20	1390	3130	18.0	31.5	7.5	0.8	565-1431-ND	1.76	13.20	99.00	EKXG161ELL331MMN3S
200	10	0.20	125	315	10.0	16.0	5.0	0.6	565-1432-ND	.43	3.15	22.50	EKXG201ELL100MJ16S
	22	0.20	200	500	10.0	20.0	5.0	0.6	565-1433-ND	.48	3.50	25.00	EKXG201ELL220MJ20S
	33	0.20	260	650	10.0	20.0	5.0	0.6	565-1434-ND	.52	3.85	27.50	EKXG201ELL330MJ20S
	47	0.20	390	975	12.5	20.0	5.0	0.6	565-1435-ND	.65	4.80	35.25	EKXG201ELL470MK20S
	68	0.20	470	1175	12.5	20.0	5.0	0.6	565-1436-ND	.69	5.12	37.60	EKXG201ELL680MK20S
	100	0.20	630	1420	16.0	20.0	7.5	0.8	565-1437-ND	.96	7.18	52.73	EKXG201ELL101ML20S
	150	0.20	840	1890	16.0	25.0	7.5	0.8	565-1438-ND	1.08	8.10	60.75	EKXG201ELL151ML25S
	220	0.20	1050	2365	18.0	25.0	7.5	0.8	565-1439-ND	1.57	11.76	88.19	EKXG201ELL221MM25S
	330	0.20	1430	3220	18.0	35.5	7.5	0.8	565-1440-ND	1.82	13.78	104.00	EKXG201ELL331MMP1S
250	10	0.20	140	350	10.0	20.0	5.0	0.6	565-1441-ND	.46	3.39	24.24	EKXG251ELL100MJ20S
	22	0.20	200	500	10.0	20.0	5.0	0.6	565-1442-ND	.57	4.20	30.00	EKXG251ELL220MJ20S
	33	0.20	320	800	12.5	20.0	5.0	0.6	565-1443-ND	.69	5.12	37.60	EKXG251ELL330MK20S
	47	0.20	390	975	12.5	20.0	5.0	0.6	565-1444-ND	.70	5.23	38.41	EKXG251ELL470MK20S
	68	0.20	520	1300	16.0	20.0	7.5	0.8	565-1445-ND	1.03	7.68	56.40	EKXG251ELL680ML20S
	82	0.20	550	1375	16.0	20.0	7.5	0.8	565-1446-ND	1.01	7.56	56.70	EKXG251ELL820ML20S
	100	0.20	680	1530	16.0	25.0	7.5	0.8	565-1447-ND	1.12	8.40	63.00	EKXG251ELL101ML25S
	150	0.20	860	1935	18.0	25.0	7.5	0.8	565-1448-ND	1.54	11.51	86.36	EKXG251ELL151MM25S
350	6.8	0.24	110	275	10	16	5.0	0.6	565-1449-ND	.46	3.39	24.24	EKXG351ELL6R8MJ16S
	10	0.24	140	350	10	20	5.0	0.6	565-1450-ND	.53	3.88	27.71	EKXG351ELL100MJ20S
	22	0.24	260	650	12.5	20	5.0	0.6	565-1451-ND	.70	5.23	38.41	EKXG351ELL220MK20S
	33	0.24	360	900	16	20	7.5	0.8	565-1452-ND	1.01	7.49	54.99	EKXG351ELL330ML20S
	47	0.24	430	1075	16	20	7.5	0.8	565-1453-ND	1.05	7.89	59.20	EKXG351ELL470ML20S
	68	0.24	560	1400	16	25	7.5	0.8	565-1454-ND	1.36	10.20	76.50	EKXG351ELL680ML25S
	68	0.24	550	1375	18	20	7.5	0.8	565-1455-ND	1.56	11.70	87.75	EKXG351ELL680MM20S
	82	0.24	610	1525	18	25	7.5	0.8	565-1456-ND	1.72	12.90	96.75	EKXG351ELL820MM25S
	100	0.24	700	1575	18	25	7.5	0.8	565-1457-ND	1.89	14.31	108.00	EKXG351ELL101MM25S
	120	0.24	830	1865	18	31.5	7.5	0.8	565-1458-ND	1.96	14.84	112.00	EKXG351ELL121MMN3S
	150	0.24	960	2160	18	35.5	7.5	0.8	565-1459-ND	2.70	20.41	154.00	EKXG351ELL151MMP1S
400	6.8	0.24	110	275	10	16	5.0	0.6	565-1460-ND	.48	3.55	25.35	EKXG401ELL6R8MJ16S
	10	0.24	140	350	10	20	5.0	0.6	565-1461-ND	.57	4.20	30.00	EKXG401ELL100MJ20S
	15	0.24	220	550	12.5	20	5.0	0.6	565-1462-ND	.70	5.23	38.41	EKXG401ELL150MK20S
	22	0.24	260	650	12.5	20	5.0	0.6	565-1463-ND	.82	6.08	44.65	EKXG401ELL220MK20S
	33	0.24	360	900	16	20	7.5	0.8	565-1464-ND	1.01	7.56	56.70	EKXG401ELL330ML20S
	47	0.24	470	1175	16	25	7.5	0.8	565-1465-ND	1.28	9.60	72.00	EKXG401ELL470ML25S
	47	0.24	450	1125	18	20	7.5	0.8	565-1466-ND	1.37	10.30	77.28	EKXG401ELL470MM20S
	68	0.24	585	1465	18	25	7.5	0.8	565-1467-ND	1.76	13.20	99.00	EKXG401ELL680MM25S
	82	0.24	610	1525	18	25	7.5	0.8	565-1468-ND	1.76	13.36	100.80	EKXG401ELL820MM25S
	100	0.24	765	1720	18	31.5	7.5	0.8	565-1469-ND	1.93	14.64	110.50	EKXG401ELL101MMN3S
	120	0.24	865	1945	18	35.5	7.5	0.8	565-1470-ND	2.24	16.96	128.00	EKXG401ELL121MMP1S
	150	0.24	985	2215	18	40	7.5	0.8	565-1471-ND	2.98	22.53	170.00	EKXG401ELL151MM40S
450	6.8	0.24	110	275	10	20	5.0	0.6	565-1472-ND	.59	4.31	30.80	EKXG451ELL6R8MJ20S
	10	0.24	180	450	12.5	20	5.0	0.6	565-1473-ND	.73	5.45	40.02	EKXG451ELL100MK20S
	15	0.24	240	600	12.5	25	5.0	0.6	565-1474-ND	.90	6.72	49.35	EKXG451ELL150MK25S
	22	0.24	290	725	16	20	7.5	0.8	565-1475-ND	1.00	7.52	56.36	EKXG451ELL220ML20S
	33	0.24	390	975	16	25	7.5	0.8	565-1476-ND	1.25	9.39	70.42	EKXG451ELL330ML25S
	33	0.24	380	950	18	20	7.5	0.8	565-1477-ND	1.48	11.10	83.25	EKXG451ELL330MM20S
	47	0.24	480	1200	18	25	7.5	0.8	565-1478-ND	1.72	12.90	96.75	EKXG451ELL470MM25S
	68	0.24	630	1575	18	31.5	7.5	0.8	565-1479-ND	1.89	14.31	108.00	EKXG451ELL680MMN3S
	82	0.24	715	1785	18	35.5	7.5	0.8	565-1480-ND	2.24	16.96	128.00	EKXG451ELL820MMP1S
	100	0.24	800	1800	18	40	7.5	0.8	565-1481-ND	2.56	19.35	146.00	EKXG451ELL101MM40S

KY Series Aluminum Electrolytic Capacitors (Radial Lead)

Low Impedance Long Life 105°C

Features: Miniature, Low Impedance, Long Life (4-10K Hours), 105°C Maximum Temperature
Specifications: • **Operating Temperature:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	6.3	10	16	25	35	50
Tan δ (DF)	0.22	0.19	0.16	0.14	0.12	0.10

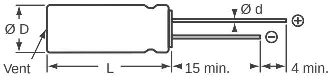

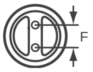

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100KHz	Maximum Impedance (Ω / 100KHz)		Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
6.3	150	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1482-ND	.22	1.38	9.30	EKY-6R3ELL151ME11D
	330	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1483-ND	.22	1.38	9.28	EKY-6R3ELL331MF11D
	680	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1484-ND	.29	1.95	13.75	EKY-6R3ELL681MHB5D
	820	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1485-ND	.33	2.45	17.50	EKY-6R3ELL821MJC5S
	1000	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1486-ND	.29	1.95	13.75	EKY-6R3ELL102MH15D
	1200	1210	0.060	0.24	8.0	20.0	3.5	0.6	565-1487-ND	.38	2.60	18.35	EKY-6R3ELL122MJ16S
	1200	1050	0.069	0.27	10.0	16.0	5.0	0.6	565-1488-ND	.32	2.14	15.11	EKY-6R3ELL122MH20D
	1500	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1489-ND	.36	2.64	18.88	EKY-6R3ELL152MJ20S
	1800	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1490-ND	.48	3.50	25.00	EKY-6R3ELL182MK15S
	2200	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1491-ND	.48	3.50	25.00	EKY-6R3ELL222MJ25S
	2700	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1492-ND	.48	3.50	25.00	EKY-6R3ELL272MJ30S
	3300	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1493-ND	.52	3.85	27.50	EKY-6R3ELL332MK20S
	3900	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1494-ND	.58	4.32	31.73	EKY-6R3ELL392MK25S
	4700	2650	0.024	0.078	12.5	30.5	5.0	0.6	565-1495-ND	.66	4.91	36.08	EKY-6R3ELL472MK30S
	5600	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1496-ND	.70	5.24	38.47	EKY-6R3ELL562MK35S
	6800	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1497-ND	.74	5.48	40.24	EKY-6R3ELL682MK40S
	10000	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1498-ND	.98	7.29	53.54	EKY-6R3ELL103MM25S
10	100	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1499-ND	.19	1.17	7.92	EKY-100ELL101ME11D
	220	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1500-ND	.22	1.39	9.37	EKY-100ELL221MF11D
	470	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1501-ND	.24	1.60	11.29	EKY-100ELL471MHB5D
	680	865	0.80	0.32	10.0	12.5	5.0	0.6	565-1502-ND	.30	2.06	14.54	EKY-100ELL681MJC5S
	680	840	0.87	0.35	8.0	15.0	3.5	0.6	565-1503-ND	.27	1.84	12.99	EKY-100ELL681MH15D
	1000	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1504-ND	.36	2.69	19.19	EKY-100ELL102MJ16S
	1000	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1505-ND	.33	2.21	15.56	EKY-100ELL102MH20D
	1200	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1506-ND	.36	2.64	18.88	EKY-100ELL122MJ20S
	1500	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1507-ND	.44	3.22	22.97	EKY-100ELL152MJ25S
	1500	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1508-ND	.47	3.48	24.86	EKY-100ELL152MK15S
	2200	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1509-ND	.48	3.52	25.17	EKY-100ELL222MJ30S
	2200	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1510-ND	.52	3.84	27.40	EKY-100ELL222MK20S
	2700	2210	0.043	0.11	18.0	15.0	7.5	0.8	565-1511-ND	.73	5.40	39.63	EKY-100ELL272MM15S
	3300	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1512-ND	.57	4.23	31.08	EKY-100ELL332MK25S
	3900	2650	0.024	0.078	12.5	30.0	5.0	0.6	565-1513-ND	.63	4.72	34.63	EKY-100ELL392MK30S
	3900	2530	0.027	0.078	16.0	20.0	7.5	0.8	565-1514-ND	.74	5.52	40.56	EKY-100ELL392ML20S
	4700	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1515-ND	.68	5.08	37.28	EKY-100ELL472MK35S
	5600	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1516-ND	.79	5.88	43.18	EKY-100ELL562MK40S
	5600	2930	0.021	0.060	16.0	25.0	7.5	0.8	565-1517-ND	.94	6.97	51.19	EKY-100ELL562ML25S
	6800	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1518-ND	1.00	7.47	54.84	EKY-100ELL682MLN3S
	10000	4220	0.014	0.038	18.0	35.5	7.5	0.8	565-1519-ND	1.28	9.59	71.94	EKY-100ELL103MMP1S
16	56	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1520-ND	.18	1.16	7.83	EKY-160ELL560ME11D
	120	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1521-ND	.24	1.51	10.17	EKY-160ELL121MF11D
	330	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1522-ND	.23	1.59	11.22	EKY-160ELL331MHB5D
	470	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1523-ND	.35	2.36	16.62	EKY-160ELL471MJC5S
	470	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1524-ND	.27	1.83	12.92	EKY-160ELL471MJ15D
	680	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1525-ND	.38	2.60	18.35	EKY-160ELL681MJ16S
	680	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1526-ND	.31	2.10	14.84	EKY-160ELL681MH20D
	1000	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1527-ND	.36	2.69	19.19	EKY-160ELL102MJ20S
	1000	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1528-ND	.47	3.44	24.55	EKY-160ELL102MK15S
	1200	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1529-ND	.44	3.22	22.97	EKY-160ELL122MJ25S
	1500	1910	0.031	012	10.0	30.0	5.0	0.6	565-1530-ND	.47	3.44	24.55	EKY-160ELL152MJ30S
	1500	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1531-ND	.49	3.61	25.82	EKY-160ELL152MK20S
	2200	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1532-ND	.61	4.49	32.10	EKY-160ELL222MK25S
	2700	2650	0.024	0.078	12.5	30.0	5.0	0.6	565-1533-ND	.61	4.55	33.44	EKY-160ELL272MK30S
	2700	2530	0.027	0.078	16.0	20.0	7.5	0.8	565-1534-ND	.62	4.59	33.72	EKY-160ELL272ML20S
	3300	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1535-ND	.68	5.08	37.28	EKY-160ELL332MK35S
	3900	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1536-ND	.76	5.64	41.41	EKY-160ELL392MK40S
	3900	2930	0.021	0.060	16.0	25.0	7.5	0.8	565-1537-ND	.82	6.12	44.96	EKY-160ELL392ML25S
	4700	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1538-ND	.90	6.73	49.41	EKY-160ELL472MLN3S
	4700	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1539-ND	.97	7.21	52.96	EKY-160ELL472MM25S
	5600	3610	0.015	0.044	16.0	35.5	7.5	0.8	565-1540-ND	1.00	7.45	54.74	EKY-160ELL562MLP1S
	5600	4170	0.015	0.040	18.0	31.5	7.5	0.8	565-1541-ND	1.06	7.95	59.63	EKY-160ELL562MMN3S
	6800	4080	0.013	0.038	16.0	40.0	7.5	0.8	565-1542-ND	1.00	7.52	56.36	EKY-160ELL682ML40S
	8200	4220	0.014	0.038	18.0	35.5	7.5	0.8	565-1543-ND	1.23	9.22	69.12	EKY-160ELL822MMP1S
25	47	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1544-ND	.18	1.16	7.83	EKY-250ELL470ME11D
	100	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1545-ND	.21	1.35	9.11	EKY-250ELL101MF11D
	220	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1546-ND	.24	1.60	11.26	EKY-250ELL221MHB5D
	330	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1547-ND	.35	2.36	16.62	EKY-250ELL331MJC5S
	330	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1548-ND	.27	1.86	13.14	EKY-250ELL331MH15D
	470	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1549-ND	.38	2.55	18.02	EKY-250ELL471MJ16S
	470	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1550-ND	.32	2.14	15.07	EKY-250ELL471MH20D
	680	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1551-ND	.36	2.64	18.88	EKY-250ELL681MJ20S
	680	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1552-ND	.46	3.39	24.24	EKY-250ELL681MK15S
	820	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1553-ND	.42	3.09	22.04	EKY-250ELL821MJ25S
	1000	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1554-ND	.47	3.48	24.86	EKY-250ELL102MJ30S
	1000	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1555-ND	.52	3.84	27.40	EKY-250ELL102MK20S
	1200	2210	0.043	0.11	18.0	15.0	7.5	0.8	565-1556-ND	.77	5.76	42.30	EKY-250ELL122MM15S
	1500	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1557-ND	.62	4.54	32.41	EKY-250ELL152MK25S
	1800	2650	0.024	0.078	12.5	30.0	5.0	0.6	565-1558-ND	.67	5.00	36.70	EKY-250ELL182MK30S
	1800	2530	0.027	0.078	16.0	20.0	7.5	0.8	565-1559-ND	.64	4.75	34.92	EKY-250ELL182ML20S
	2200	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1560-ND	.70	5.20	38.18	EKY-250ELL222MK35S
	2200	2860	0.026	0.067	18.0	20.0	7.5	0.8	565-1561-ND	1.01	7.51	55.15	EKY-250ELL222MM20S
	2700	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1562-ND	.77	5.76	42.31	EKY-250ELL272MK40S
	2700	2930	0.021	0.060	16.0	25.0	7.5	0.8	565-1563-ND	.81	6.04	44.38	EKY-250ELL272ML25S
	3300	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1564-ND	.93	6.93	50.89	EKY-250ELL332MLN3S
	3300	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1565-ND	.94	6.97	51.19	EKY-250ELL332MM25S
	3900	4170	0.015	0.040	18.0	31.5	7.5	0.8	565-1566-ND	1.13	8.50	63.73	EKY-250ELL392MMN3S
	4700	4220	0.014	0.038	18.0	35.5	7.5	0.8	565-1567-ND	1.15	8.65	64.86	EKY-250ELL472MMP1S
	5600	4280	0.012	0.032	18.0	40.0	7.5	0.8	565-1568-ND	1.26	9.48	71.10	EKY-250ELL562MM40S
35	33	210	0.58	2.3	5.0	11.0	2.0	0.5	565-1569-ND	.20	1.29	8.73	EKY-350ELL330ME11D
	56	340	0.22	0.87	6.3	11.0	2.5	0.5	565-1570-ND	.22	1.36	9.19	EKY-350ELL560MF11D
	150	640	0.13	0.52	8.0	11.5	3.5	0.6	565-1571-ND	.23	1.59	11.18	EKY-350ELL151MHB5D
	220	840	0.087	0.35	8.0	15.0	3.5	0.6	565-1572-ND	.35	2.36	16.62	EKY-350ELL221MJC5S

(Continued)

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100KHz	Maximum Impedance (Ω / 100KHz) 20°C	-10°C	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
35	220	865	0.080	0.32	10.0	12.5	5.0	0.6	565-1573-ND	.27	1.85	13.03	EKY-350ELL221MH15D
	270	1050	0.069	0.27	8.0	20.0	3.5	0.6	565-1574-ND	.31	2.13	14.99	EKY-350ELL271MH20D
	330	1210	0.060	0.24	10.0	16.0	5.0	0.6	565-1575-ND	.36	2.69	19.19	EKY-350ELL331MJ16S
	470	1400	0.046	0.18	10.0	20.0	5.0	0.6	565-1576-ND	.41	3.04	21.73	EKY-350ELL471MJ20S
	470	1450	0.049	0.16	12.5	15.0	5.0	0.6	565-1577-ND	.46	3.40	24.31	EKY-350ELL471MK15S
	560	1650	0.042	0.17	10.0	25.0	5.0	0.6	565-1578-ND	.44	3.26	23.28	EKY-350ELL561MJ25S
	680	1910	0.031	0.12	10.0	30.0	5.0	0.6	565-1579-ND	.48	3.52	25.17	EKY-350ELL681MJ30S
	680	1900	0.035	0.12	12.5	20.0	5.0	0.6	565-1580-ND	.48	3.57	25.51	EKY-350ELL681MK20S
	1000	2230	0.027	0.089	12.5	25.0	5.0	0.6	565-1581-ND	.61	4.51	33.14	EKY-350ELL102MK25S
	1000	2210	0.043	0.11	18.0	15.0	7.5	0.8	565-1582-ND	.77	5.74	42.15	EKY-350ELL102MM15S
	1200	2650	0.024	0.078	12.5	30.0	5.0	0.6	565-1583-ND	.57	4.23	31.08	EKY-350ELL122MK30S
	1200	2530	0.027	0.078	16.0	20.0	7.5	0.8	565-1584-ND	.69	5.12	37.57	EKY-350ELL122ML20S
	1500	2880	0.020	0.065	12.5	35.0	5.0	0.6	565-1585-ND	.70	5.24	38.47	EKY-350ELL152MK35S
	1800	3350	0.017	0.056	12.5	40.0	5.0	0.6	565-1586-ND	.77	5.76	42.31	EKY-350ELL182MK40S
	1800	2930	0.021	0.060	16.0	25.0	7.5	0.8	565-1587-ND	.75	5.58	40.99	EKY-350ELL182ML25S
	1800	2860	0.026	0.067	18.0	20.0	7.5	0.8	565-1588-ND	.88	6.54	48.02	EKY-350ELL182MM20S
	2200	3450	0.017	0.050	16.0	31.5	7.5	0.8	565-1589-ND	.94	7.02	51.54	EKY-350ELL222MLN3S
	2200	3140	0.019	0.049	18.0	25.0	7.5	0.8	565-1590-ND	1.03	7.66	56.22	EKY-350ELL222MM25S
	2700	4170	0.015	0.040	18.0	31.5	7.5	0.8	565-1591-ND	1.12	8.42	63.16	EKY-350ELL272MMN3S
	3300	4080	0.013	0.038	16.0	40.0	7.5	0.8	565-1592-ND	1.06	7.86	57.70	EKY-350ELL332ML40S
	3300	4220	0.014	0.038	18.0	35.5	7.5	0.8	565-1593-ND	1.20	9.03	67.70	EKY-350ELL332MMP1S
	3900	4280	0.012	0.032	18.0	14.0	7.5	0.8	565-1594-ND	1.22	9.12	68.43	EKY-350ELL392MM40S
50	2.2	43	2.5	10.0	5.0	11.0	2.0	0.5	565-1595-ND	.20	1.25	8.44	EKY-500ELL2R2ME11D
	3.3	53	2.2	8.8	5.0	11.0	2.0	0.5	565-1596-ND	.20	1.27	8.53	EKY-500ELL3R3ME11D
	4.7	88	1.9	7.6	5.0	11.0	2.0	0.5	565-1597-ND	.20	1.25	8.44	EKY-500ELL4R7ME11D
	10	100	1.5	6.0	5.0	11.0	2.0	0.5	565-1598-ND	.20	1.25	8.39	EKY-500ELL100ME11D
	22	180	0.70	2.8	5.0	11.0	2.0	0.5	565-1599-ND	.19	1.19	8.00	EKY-500ELL220ME11D
	56	295	0.30	1.2	6.3	11.0	2.5	0.5	565-1600-ND	.22	1.40	9.45	EKY-500ELL560MF11D
	100	555	0.17	0.68	8.0	11.5	3.5	0.6	565-1601-ND	.24	1.63	11.48	EKY-500ELL101MHB5D
	120	730	0.12	0.48	8.0	15.0	3.5	0.6	565-1602-ND	.28	1.88	13.26	EKY-500ELL121MH15D
	150	760	0.12	0.48	10.0	12.5	5.0	0.6	565-1603-ND	.35	2.36	16.62	EKY-500ELL151MJC5S
	180	910	0.091	0.36	8.0	20.0	3.5	0.6	565-1604-ND	.32	2.16	15.26	EKY-500ELL181MH20D
	220	1050	0.084	0.34	10.0	16.0	5.0	0.6	565-1605-ND	.40	2.70	19.04	EKY-500ELL221MJ16S
	270	1220	0.060	0.24	10.0	20.0	5.0	0.6	565-1606-ND	.34	2.51	17.96	EKY-500ELL271MJ20S
	270	1260	0.061	0.20	12.5	15.0	5.0	0.6	565-1607-ND	.47	3.48	24.86	EKY-500ELL271MK15S
	330	1440	0.055	0.22	10.0	25.0	5.0	0.6	565-1608-ND	.48	3.57	25.51	EKY-500ELL331MJ25S
	470	1690	0.043	0.17	10.0	30.0	5.0	0.6	565-1609-ND	.50	3.70	26.44	EKY-500ELL471MJ30S
	470	1660	0.045	0.15	12.5	20.0	5.0	0.6	565-1610-ND	.52	3.84	27.40	EKY-500ELL471MK20S
	560	1950	0.034	0.11	12.5	25.0	5.0	0.6	565-1611-ND	.58	4.31	31.66	EKY-500ELL561MK25S
	560	1930	0.054	0.15	18.0	15.0	7.5	0.8	565-1612-ND	.73	5.44	39.95	EKY-500ELL561MM15S
	680	2310	0.030	0.10	12.5	30.0	5.0	0.6	565-1613-ND	.63	4.72	34.63	EKY-500ELL681MK30S
	820	2510	0.025	0.083	12.5	35.0	5.0	0.6	565-1614-ND	.71	5.32	39.05	EKY-500ELL821MK35S
	820	2210	0.034	0.10	16.0	20.0	7.5	0.8	565-1615-ND	.73	5.40	39.63	EKY-500ELL821ML20S
	1000	2920	0.021	0.069	12.5	40.0	5.0	0.6	565-1616-ND	.78	5.84	42.89	EKY-500ELL102MK40S
	1000	2555	0.025	0.075	16.0	25.0	7.5	0.8	565-1617-ND	.83	6.17	45.28	EKY-500ELL102ML25S
	1000	2490	0.036	0.097	18.0	20.0	7.5	0.8	565-1618-ND	.88	6.57	48.22	EKY-500ELL102MM20S
	1200	3010	0.022	0.066	16.0	31.5	7.5	0.8	565-1619-ND	1.00	7.45	54.74	EKY-500ELL122MLN3S
	1200	2740	0.026	0.070	18.0	25.0	7.5	0.8	565-1620-ND	1.01	7.59	56.95	EKY-500ELL122MM25S
	1500	3150	0.019	0.057	16.0	35.5	7.5	0.8	565-1621-ND	1.02	7.62	55.93	EKY-500ELL152MLP1S
	1800	3710	0.016	0.048	16.0	40.0	7.5	0.8	565-1622-ND	1.06	7.93	59.48	EKY-500ELL182ML40S
	2200	3680	0.017	0.046	18.0	35.5	7.5	0.8	565-1623-ND	1.28	9.59	71.93	EKY-500ELL222MMP1S
	2700	3800	0.014	0.038	18.0	40.0	7.5	0.8	565-1624-ND	1.44	10.77	80.74	EKY-500ELL272MM40S

UNITED CHEMI-CON

LXY Series Aluminum Electrolytic Capacitors (Radial Lead)

RoHS COMPLIANT

High Reliability Low Impedance 105°C

Features: Miniature, Low Impedance, Long Life (2-8K Hours), Solvent Proof, 105°C Maximum Temperature

Specifications: • Operating Temperature: -55°C ~ 105°C **• Capacitance Tolerance:** ±20% **• Leakage Current:** I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	10	16	25	35	50	63
Tan δ (DF)	0.19	0.16	0.14	0.12	0.10	0.10

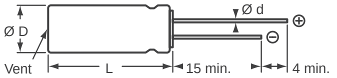

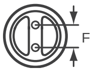

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100KHz	Maximum Impedance (Ω / 100KHz) 20°C	-10°C	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
10	82	163	0.75	1.5	5.0	11.5	2.0	0.5	565-1747-ND	.26	1.76	12.38	ELXY100ELL820MEB5D
	180	273	0.35	0.70	6.3	11.5	2.5	0.5	565-1748-ND	.32	2.15	15.13	ELXY100ELL181MFB5D
	220	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1749-ND	.37	2.54	17.88	ELXY100ELL221MF15D
	330	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1750-ND	.36	2.63	18.75	ELXY100ELL331MH12D
	390	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1751-ND	.40	2.98	21.25	ELXY100ELL391MJC5S
	470	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1752-ND	.43	3.15	22.50	ELXY100ELL471MH15D
	680	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1753-ND	.50	3.68	26.25	ELXY100ELL681MJ16S
	680	740	0.095	0.19	8.0	20.0	3.5	0.6	565-1754-ND	.48	3.50	25.00	ELXY100ELL681MH20D
	1000	1040	0.062	0.13	10.0	20.0	5.0	0.6	565-1755-ND	.57	4.20	30.00	ELXY100ELL102MJ20S
	1200	1260	0.052	0.11	10.0	25.0	5.0	0.6	565-1756-ND	.60	4.48	32.90	ELXY100ELL122MJ25S
	1500	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1757-ND	.65	4.80	35.25	ELXY100ELL152MJ30S
	1800	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1758-ND	.77	5.76	42.30	ELXY100ELL182MK20S
	2200	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1759-ND	.90	6.72	49.35	ELXY100ELL222MK25S
	2700	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1760-ND	.99	7.36	54.05	ELXY100ELL272MK30S
	3300	2220	0.024	0.048	12.5	35.0	5.0	0.6	565-1761-ND	1.02	7.65	57.38	ELXY100ELL332MK35S
	3300	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1762-ND	1.12	8.40	63.00	ELXY100ELL332ML20S
	3900	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1763-ND	1.16	8.70	65.25	ELXY100ELL392MK40S
	3900	2070	0.028	0.056	16.0	25.0	7.5	0.8	565-1764-ND	1.20	9.00	67.50	ELXY100ELL392ML25S
	5600	2350	0.025	0.050	16.0	30.0	7.5	0.8	565-1765-ND	1.40	10.50	78.75	ELXY100ELL562ML30S
	6800	2550	0.022	0.044	16.0	35.0	7.5	0.8	565-1766-ND	1.60	12.00	90.00	ELXY100ELL682ML35S
	8200	2900	0.018	0.036	16.0	40.0	7.5	0.8	565-1767-ND	1.80	13.50	101.25	ELXY100ELL822ML40S
16	56	163	0.75	1.5	5.0	11.5	2.0	0.5	565-1768-ND	.26	1.76	12.38	ELXY160ELL560MEB5D
	120	273	0.35	0.70	6.3	11.5	2.5	0.5	565-1769-ND	.32	2.15	15.13	ELXY160ELL121MFB5D
	180	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1770-ND	.35	2.34	16.50	ELXY160ELL181MF15D
	270	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1771-ND	.40	2.98	21.25	ELXY160ELL271MJC5S
	270	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1772-ND	.36	2.63	18.75	ELXY160ELL271MH12D
	330	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1773-ND	.45	3.33	23.75	ELXY160ELL331MH15D

(Continued)

LXY Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100KHz	Maximum Impedance (Ω / 100KHz)		Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
16	470	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1774-ND	.50	3.68	26.25	ELXY160ELL471MJ16S
	470	740	0.095	0.19	8.0	20.0	3.5	0.6	565-1775-ND	.48	3.50	25.00	ELXY160ELL471MH20D
	680	1040	0.062	0.13	10.0	20.0	5.0	0.6	565-1776-ND	.57	4.20	30.00	ELXY160ELL681MJ20S
	820	1260	0.052	0.11	10.0	25.0	5.0	0.6	565-1777-ND	.60	4.48	32.90	ELXY160ELL821MJ25S
	1200	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1778-ND	.69	5.12	37.60	ELXY160ELL122MJ30S
	1200	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1779-ND	.77	5.76	42.30	ELXY160ELL122MK20S
	1500	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1780-ND	.90	6.72	49.35	ELXY160ELL152MK25S
	2200	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1781-ND	.99	7.36	54.05	ELXY160ELL222MK30S
	2200	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1782-ND	1.12	8.40	63.00	ELXY160ELL222ML20S
	2700	2220	0.024	0.048	12.5	35.0	5.0	0.6	565-1783-ND	1.02	7.65	57.38	ELXY160ELL272MK35S
	2700	2070	0.028	0.056	16.0	25.0	7.5	0.8	565-1784-ND	1.20	9.00	67.50	ELXY160ELL272ML25S
	3300	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1785-ND	1.18	8.85	66.38	ELXY160ELL332MK40S
	3900	2350	0.025	0.050	16.0	30.0	7.5	0.8	565-1786-ND	1.36	10.20	76.50	ELXY160ELL392ML30S
	4700	2550	0.022	0.044	16.0	35.0	7.5	0.8	565-1787-ND	1.60	12.00	90.00	ELXY160ELL472ML35S
	5600	2900	0.018	0.036	16.0	40.0	7.5	0.8	565-1788-ND	1.80	13.50	101.25	ELXY160ELL562ML40S
25	39	163	0.75	1.5	5.0	11.5	2.0	0.5	565-1789-ND	.29	1.95	13.75	ELXY250ELL390MEB5D
	82	273	0.35	0.70	6.3	11.5	2.5	0.5	565-1790-ND	.32	2.15	15.13	ELXY250ELL820MFB5D
	120	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1791-ND	.37	2.54	17.88	ELXY250ELL121MF15D
	150	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1792-ND	.36	2.63	18.75	ELXY250ELL151MH12D
	180	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1793-ND	.40	2.98	21.25	ELXY250ELL181MJC5S
	220	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1794-ND	.43	3.15	22.50	ELXY250ELL221MH15D
	330	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1795-ND	.50	3.68	26.25	ELXY250ELL331MJ16S
	330	740	0.095	0.19	8.0	20.0	3.5	0.6	565-1796-ND	.48	3.50	25.00	ELXY250ELL331MH20D
	470	1040	0.062	0.13	10.0	20.0	5.0	0.6	565-1797-ND	.57	4.20	30.00	ELXY250ELL471MJ20S
	560	1260	0.052	0.11	10.0	25.0	5.0	0.6	565-1798-ND	.60	4.48	32.90	ELXY250ELL561MJ25S
	820	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1799-ND	.69	5.12	37.60	ELXY250ELL821MJ30S
	820	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1800-ND	.77	5.76	42.30	ELXY250ELL821MK20S
	1000	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1801-ND	.86	6.40	47.00	ELXY250ELL102MK25S
	1500	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1802-ND	.99	7.36	54.05	ELXY250ELL152MK30S
	1500	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1803-ND	1.12	8.40	63.00	ELXY250ELL152ML20S
	1800	2220	0.024	0.048	12.5	35.0	5.0	0.6	565-1804-ND	1.02	7.65	57.38	ELXY250ELL182MK35S
	1800	2070	0.028	0.056	16.0	25.0	7.5	0.8	565-1805-ND	1.20	9.00	67.50	ELXY250ELL182ML25S
	2200	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1806-ND	1.16	8.70	65.25	ELXY250ELL222MK40S
	2700	2350	0.025	0.050	16.0	30.0	7.5	0.8	565-1807-ND	1.36	10.20	76.50	ELXY250ELL272ML30S
	3300	2550	0.022	0.044	16.0	35.0	7.5	0.8	565-1808-ND	1.60	12.00	90.00	ELXY250ELL332ML35S
	3900	2900	0.018	0.036	16.0	40.0	7.5	0.8	565-1809-ND	1.80	13.50	101.25	ELXY250ELL392ML40S
35	27	163	0.75	1.5	5.0	11.5	2.0	0.5	565-1812-ND	.30	2.07	14.58	ELXY350ELL270MEB5D
	56	273	0.35	0.70	6.3	11.5	2.5	0.5	565-1810-ND	.32	2.18	15.40	ELXY350ELL560MFB5D
	82	390	0.25	0.50	6.3	15.0	2.5	0.5	565-1813-ND	.35	2.34	16.50	ELXY350ELL820MF15D
	120	445	0.17	0.34	8.0	12.0	3.5	0.6	565-1814-ND	.36	2.63	18.75	ELXY350ELL121MH12D
	120	625	0.12	0.24	10.0	12.5	5.0	0.6	565-1811-ND	.25	1.72	12.10	ELXY350ELL121MJC5S
	180	555	0.13	0.26	8.0	15.0	3.5	0.6	565-1815-ND	.43	3.15	22.50	ELXY350ELL181MH15D
	220	825	0.084	0.17	10.0	16.0	5.0	0.6	565-1816-ND	.50	3.68	26.25	ELXY350ELL221MJ16S
	220	740	0.095	0.19	8.0	20.0	3.5	0.6	565-1817-ND	.48	3.50	25.00	ELXY350ELL221MH20D
	330	1040	0.062	0.13	10.0	20.0	5.0	0.6	565-1818-ND	.57	4.20	30.00	ELXY350ELL331MJ20S
	390	1260	0.052	0.11	10.0	25.0	5.0	0.6	565-1819-ND	.60	4.48	32.90	ELXY350ELL391MJ25S
	560	1440	0.044	0.088	10.0	30.0	5.0	0.6	565-1820-ND	.69	5.12	37.60	ELXY350ELL561MJ30S
	560	1340	0.046	0.092	12.5	20.0	5.0	0.6	565-1821-ND	.77	5.76	42.30	ELXY350ELL561MK20S
	680	1690	0.034	0.068	12.5	25.0	5.0	0.6	565-1822-ND	.86	6.40	47.00	ELXY350ELL681MK25S
	1000	1950	0.030	0.060	12.5	30.0	5.0	0.6	565-1823-ND	.48	3.50	25.00	ELXY350ELL102MK30S
	1000	1630	0.038	0.076	16.0	20.0	7.5	0.8	565-1824-ND	1.12	8.40	63.00	ELXY350ELL102ML20S
	1200	2220	0.024	0.048	12.5	35.0	5.0	0.6	565-1825-ND	1.02	7.65	57.38	ELXY350ELL122MK35S
	1200	2070	0.028	0.056	16.0	25.0	7.5	0.8	565-1826-ND	1.20	9.00	67.50	ELXY350ELL122ML25S
	1500	2390	0.022	0.044	12.5	40.0	5.0	0.6	565-1827-ND	1.16	8.70	65.25	ELXY350ELL152MK40S
	1800	2350	0.025	0.050	16.0	30.0	7.5	0.8	565-1828-ND	1.36	10.20	76.50	ELXY350ELL182ML30S
	2200	2550	0.022	0.044	16.0	35.0	7.5	0.8	565-1829-ND	1.60	12.00	90.00	ELXY350ELL222ML35S
	2700	2900	0.018	0.036	16.0	40.0	7.5	0.8	565-1830-ND	1.80	13.50	101.25	ELXY350ELL272ML40S
50	18	129	1.2	2.4	5.0	11.5	2.0	0.5	565-1831-ND	.26	1.76	12.38	ELXY500ELL180MEB5D
	39	219	0.54	1.1	6.3	11.5	2.5	0.5	565-1832-ND	.32	2.15	15.13	ELXY500ELL390MFB5D
	56	310	0.34	0.68	6.3	15.0	2.5	0.5	565-1833-ND	.37	2.54	17.88	ELXY500ELL560MF15D
	68	340	0.30	0.60	8.0	12.0	3.5	0.6	565-1834-ND	.36	2.63	18.75	ELXY500ELL680MH12D
	82	480	0.20	0.40	10.0	12.5	5.0	0.6	565-1835-ND	.40	2.98	21.25	ELXY500ELL820MJC5S
	82	470	0.20	0.40	8.0	15.0	3.5	0.6	565-1836-ND	.43	3.15	22.50	ELXY500ELL820MH15D
	120	755	0.13	0.26	10.0	16.0	5.0	0.6	565-1837-ND	.50	3.68	26.25	ELXY500ELL121MJ16S
	120	610	0.14	0.28	8.0	20.0	3.5	0.6	565-1838-ND	.52	3.85	27.50	ELXY500ELL121MH20D
	180	945	0.088	0.18	10.0	20.0	5.0	0.6	565-1839-ND	.57	4.20	30.00	ELXY500ELL181MJ20S
	220	1150	0.073	0.15	10.0	25.0	5.0	0.6	565-1840-ND	.60	4.48	32.90	ELXY500ELL221MJ25S
	330	1260	0.054	0.11	10.0	30.0	5.0	0.6	565-1841-ND	.69	5.12	37.60	ELXY500ELL331MJ30S
	330	1190	0.059	0.12	12.5	20.0	5.0	0.6	565-1842-ND	.58	4.32	31.73	ELXY500ELL331MK20S
	470	1490	0.044	0.088	12.5	25.0	5.0	0.6	565-1843-ND	.86	6.40	47.00	ELXY500ELL471MK25S
	560	1720	0.039	0.078	12.5	30.0	5.0	0.6	565-1844-ND	.99	7.36	54.05	ELXY500ELL561MK30S
	680	1890	0.033	0.066	12.5	35.0	5.0	0.6	565-1845-ND	1.02	7.65	57.38	ELXY500ELL681MK35S
	680	1420	0.050	0.10	16.0	20.0	7.5	0.8	565-1846-ND	1.12	8.40	63.00	ELXY500ELL681ML20S
	820	2030	0.029	0.058	12.5	40.0	5.0	0.6	565-1847-ND	1.16	8.70	65.25	ELXY500ELL821MK40S
	820	1880	0.034	0.068	16.0	25.0	7.5	0.8	565-1848-ND	1.20	9.00	67.50	ELXY500ELL821ML25S
	1000	2150	0.030	0.060	16.0	30.0	7.5	0.8	565-1849-ND	1.12	8.40	63.00	ELXY500ELL102ML30S
	1200	2320	0.027	0.054	16.0	35.0	7.5	0.8	565-1850-ND	1.60	12.00	90.00	ELXY500ELL122ML35S
	1500	2540	0.024	0.048	16.0	40.0	7.5	0.8	565-1851-ND	1.76	13.20	99.00	ELXY500ELL152ML40S
63	10	103	1.9	4.8	5.0	11.5	2.0	0.5	565-1852-ND	.26	1.76	12.38	ELXY630ELL100MEB5D
	18	161	1.0	2.5	6.3	11.5	2.5	0.5	565-1853-ND	.32	2.15	15.13	ELXY630ELL180MFB5D
	33	233	0.61	1.6	6.3	15.0	2.5	0.5	565-1854-ND	.35	2.34	16.50	ELXY630ELL330MF15D
	47	274	0.47	1.2	8.0	12.0	3.5	0.6	565-1855-ND	.36	2.63	18.75	ELXY630ELL470MH12D
	56	418	0.27	0.68	10.0	12.5	5.0	0.6	565-1856-ND	.40	2.98	21.25	ELXY630ELL560MJC5S
	68	525	0.21	0.53	10.0	16.0	5.0	0.6	565-1857-ND	.50	3.68	26.25	ELXY630ELL680MJ16S
	68	360	034	0.85	8.0	15.0	3.5	0.6	565-1858-ND	.43	3.15	22.50	ELXY630ELL680MH15D
	82	500	0.21	0.53	8.0	20.0	3.5	0.6	565-1859-ND	.45	3.33	23.75	ELXY630ELL820MH20D
	120	650	0.16	0.40	10.0	20.0	5.0	0.6	565-1860-ND	.57	4.20	30.00	ELXY630ELL121MJ20S
	150	783	0.13	0.33	10.0	25.0	5.0	0.6	565-1861-ND	.60	4.48	32.90	ELXY630ELL151MJ25S
	180	960	0.10	0.25	10.0	30.0	5.0	0.6	565-1862-ND	.65	4.80	35.25	ELXY630ELL181MJ30S
	220	870	0.11	0.28	12.5	20.0	5.0	0.6	565-1863-ND	.73	5.44	39.95	ELXY630ELL221MK20S
	270	1150	0.074	0.19	12.5	25.0	5.0	0.6	565-1864-ND	.61	4.52	33.21	ELXY630ELL271MK25S
	330	1100	0.085	0.22	16.0	20.0	7.5	0.8	565-1865-ND	1.12	8.40	63.00	ELXY630ELL331ML20S
	390	1280	0.068	0.17	12.5	30.0	5.0	0.6	565-1866-ND	.99	7.36	54.05	ELXY630ELL391MK30S
	470	1390	0.063	0.16	12.5	35.0	5.0	0.6	565-1867-ND	1.02	7.65	57.38	ELXY630ELL471MK35S
	470	1480	0.055	0.14	16.0	25.0	7.5	0.8	565-1868-ND	1.20	9.00	67.50	ELXY630ELL471ML25S
	560	1530	0.051	0.13	12.5	40.0	5.0	0.6	565-1869-ND	1.16	8.70	65.25	ELXY630ELL561MK40S
	680	1720	0.046	0.12	16.0	30.0	7.5	0.8	565-1870-ND	1.32	9.90	74.25	ELXY630ELL681ML30S
	820	1910	0.040	0.10	16.0	35.0	7.5	0.8	565-1871-ND	1.60	12.00	90.00	ELXY630ELL821ML35S
	1000	2070	0.036	0.09	16.0	40.0	7.5	0.8	565-1872-ND	1.76	13.20	99.00	ELXY630ELL102ML40S

UNITED CHEMI-CON

KZE Series Aluminum Electrolytic Capacitors (Radial Lead)

Very Low Impedance 105°C

RoHS COMPLIANT

Features: Miniature, Very Low Impedance, 105°C Maximum Temperature (1000 ~ 5000 Hour Life)

Specifications: • Operating Temperature: -40°C ~ 105°C **• Capacitance Tolerance:** ±20% **• Leakage Current:** I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	6.3	10	16	25	35	50	63	100
Tan δ (DF)	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08

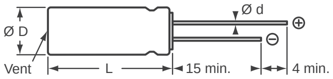

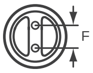

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100KHz	Maximum Impedance (Ω / 100KHz) 20°C	-10°C	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
6.3	150	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1625-ND	.19	1.17	7.92	EKZE6R3ELL151ME11D
	220	380	0.15	0.45	8.0	7.0	3.5	0.45	565-1626-ND	.26	1.78	12.54	EKZE6R3ELL221MH07D
	330	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1627-ND	.22	1.38	9.28	EKZE6R3ELL331MF11D
	560	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1628-ND	.23	1.59	11.18	EKZE6R3ELL561MHB5D
	820	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1629-ND	.26	1.76	12.42	EKZE6R3ELL821MH15D
	1000	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1630-ND	.34	2.31	16.28	EKZE6R3ELL102MJC5S
	1200	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1631-ND	.38	2.60	18.35	EKZE6R3ELL122MJ16S
	1200	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1632-ND	.32	2.14	15.11	EKZE6R3ELL122MH20D
	1500	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1633-ND	.35	2.56	18.27	EKZE6R3ELL152MJ20S
	2200	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1634-ND	.47	3.44	24.55	EKZE6R3ELL222MJ25S
	3300	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1635-ND	.49	3.61	25.82	EKZE6R3ELL332MK20S
	3900	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1636-ND	.60	4.45	31.79	EKZE6R3ELL392MK25S
	4700	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1637-ND	.63	4.72	34.63	EKZE6R3ELL472MK30S
	5600	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1638-ND	.65	4.87	35.79	EKZE6R3ELL562MK35S
	5600	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1639-ND	.67	4.96	36.40	EKZE6R3ELL562ML20S
	6800	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1640-ND	.77	5.72	42.02	EKZE6R3ELL682ML25S
10	100	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1641-ND	.19	1.18	7.96	EKZE100ELL101MELLD
	220	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1642-ND	.22	1.38	9.32	EKZE100ELL221MFLLD
	470	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1643-ND	.24	1.60	11.29	EKZE100ELL471MHB5D
	680	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1644-ND	.33	2.26	15.94	EKZE100ELL681MJC5S
	680	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1645-ND	.26	1.77	12.46	EKZE100ELL681MH15D
	1000	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1646-ND	.38	2.60	18.35	EKZE100ELL102MJ16S
	1000	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1647-ND	.33	2.21	15.56	EKZE100ELL102MH20D
	1200	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1648-ND	.35	2.56	18.27	EKZE100ELL122MJ20S
	1500	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1649-ND	.42	3.13	22.35	EKZE100ELL152MJ25S
	2200	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1650-ND	.53	3.92	28.02	EKZE100ELL222MK20S
	3300	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1651-ND	.57	4.23	31.08	EKZE100ELL332MK25S
	3900	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1652-ND	.62	4.63	34.02	EKZE100ELL392MK30S
	3900	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1653-ND	.67	4.96	36.40	EKZE100ELL392ML20S
	4700	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1654-ND	.71	5.28	38.76	EKZE100ELL472MK35S
	5600	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1655-ND	.81	6.00	44.09	EKZE100ELL562ML25S
16	56	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1656-ND	.18	1.16	7.83	EKZE160ELL560MELLD
	68	300	0.24	0.72	6.3	7.0	2.5	0.45	565-1657-ND	.24	1.64	11.56	EKZE160ELL680MF07D
	120	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1658-ND	.21	1.35	9.11	EKZE160ELL121MFLLD
	330	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1659-ND	.23	1.59	11.22	EKZE160ELL331MHB5D
	470	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1660-ND	.33	2.26	15.94	EKZE160ELL471MJC5S
	470	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1661-ND	.27	1.83	12.88	EKZE160ELL471MH15D
	680	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1662-ND	.37	2.51	17.67	EKZE160ELL681MJ16S
	680	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1663-ND	.31	2.10	14.84	EKZE160ELL681MH20D
	1000	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1664-ND	.35	2.60	18.58	EKZE160ELL102MJ20S
	1200	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1665-ND	.45	3.35	23.93	EKZE160ELL122MJ25S
	1500	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1666-ND	.49	3.61	25.82	EKZE160ELL152MK20S
	2200	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1667-ND	.62	4.54	32.41	EKZE160ELL222MK25S
	2700	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1668-ND	.61	4.55	33.44	EKZE160ELL272MK30S
	2700	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1669-ND	.67	4.96	36.40	EKZE160ELL272ML20S
	3300	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1670-ND	.67	4.99	36.66	EKZE160ELL332MK35S
	3900	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1671-ND	.78	5.84	42.89	EKZE160ELL392ML25S
25	47	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1672-ND	.18	1.16	7.83	EKZE250ELL470ME11D
	100	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1673-ND	.21	1.35	9.11	EKZE250ELL101MF11D
	220	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1674-ND	.27	1.83	12.92	EKZE250ELL221MHB5D
	330	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1675-ND	.35	2.36	16.62	EKZE250ELL331MJC5S
	330	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1676-ND	.26	1.78	12.58	EKZE250ELL331MH15D
	470	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1677-ND	.36	2.45	17.30	EKZE250ELL471MJ16S
	470	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1678-ND	.31	2.13	15.03	EKZE250ELL471MH20D
	680	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1679-ND	.35	2.60	18.58	EKZE250ELL681MJ20S
	820	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1680-ND	.45	3.35	23.93	EKZE250ELL821MJ25S
	1000	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1681-ND	.48	3.52	25.17	EKZE250ELL102MK20S
	1500	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1682-ND	.62	4.54	32.41	EKZE250ELL152MK25S
	1800	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1683-ND	.61	4.55	33.44	EKZE250ELL182MK30S
	1800	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1684-ND	.67	4.99	36.61	EKZE250ELL182ML20S
	2200	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1685-ND	.68	5.08	37.28	EKZE250ELL222MK35S
	2700	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1686-ND	.79	5.88	43.18	EKZE250ELL272ML25S
35	33	250	0.30	1.0	5.0	11.0	2.0	0.5	565-1687-ND	.18	1.16	7.83	EKZE350ELL330ME11D
	56	405	0.13	0.41	6.3	11.0	2.5	0.5	565-1688-ND	.21	1.36	9.15	EKZE350ELL560MF11D
	150	760	0.072	0.22	8.0	11.5	3.5	0.6	565-1689-ND	.24	1.61	11.33	EKZE350ELL151MHB5D
	220	1030	0.053	0.16	10.0	12.5	5.0	0.6	565-1690-ND	.35	2.36	16.62	EKZE350ELL221MJC5S
	220	995	0.056	0.17	8.0	15.0	3.5	0.6	565-1691-ND	.27	1.85	13.03	EKZE350ELL221MH15D
	270	1250	0.041	0.13	8.0	20.0	3.5	0.6	565-1692-ND	.31	2.13	14.99	EKZE350ELL271MH20D
	330	1430	0.038	0.12	10.0	16.0	5.0	0.6	565-1693-ND	.38	2.55	18.02	EKZE350ELL331MJ16S
	470	1820	0.023	0.069	10.0	20.0	5.0	0.6	565-1694-ND	.38	2.78	19.85	EKZE350ELL471MJ20S
	560	2150	0.022	0.066	10.0	25.0	5.0	0.6	565-1695-ND	.45	3.35	23.93	EKZE350ELL561MJ25S
	680	2360	0.021	0.053	12.5	20.0	5.0	0.6	565-1696-ND	.48	3.57	25.51	EKZE350ELL681MK20S
	1000	2770	0.018	0.045	12.5	25.0	5.0	0.6	565-1697-ND	.57	4.23	31.08	EKZE350ELL102MK25S
	1200	3290	0.016	0.041	12.5	30.0	5.0	0.6	565-1698-ND	.62	4.63	34.02	EKZE350ELL122MK30S
	1200	3140	0.018	0.045	16.0	20.0	7.5	0.8	565-1699-ND	.66	4.91	36.08	EKZE350ELL122ML20S
	1500	3400	0.015	0.039	12.5	35.0	5.0	0.6	565-1700-ND	.69	5.15	37.86	EKZE350ELL152MK35S
	1800	3460	0.016	0.043	16.0	25.0	7.5	0.8	565-1701-ND	.80	5.92	43.51	EKZE350ELL182ML25S
50	10	210	0.50	1.5	5.0	7.0	2.0	0.5	565-1702-ND	.27	1.71	11.49	EKZE500ELL100ME07D
	22	238	0.34	1.18	5.0	11.0	2.0	0.5	565-1703-ND	.19	1.19	8.00	EKZE500ELL220ME11D
	56	385	0.14	0.50	6.3	11.0	2.5	0.5	565-1704-ND	.22	1.40	9.45	EKZE500ELL560MF11D
	100	724	0.074	0.22	8.0	11.5	3.5	0.6	565-1705-ND	.24	1.61	11.33	EKZE500ELL101MHB5D
	120	950	0.061	0.18	8.0	15	3.5	0.6	565-1706-ND	.28	1.88	13.26	EKZE500ELL121MH15D
	150	979	0.061	0.18	10.0	12.5	5.0	0.6	565-1707-ND	.35	2.36	16.62	EKZE500ELL151MJC5S
	180	1190	0.046	0.14	8.0	20.0	3.5	0.6	565-1708-ND	.32	2.16	15.22	EKZE500ELL181MH20D

(Continued)

KZE Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100KHz	Maximum Impedance (Ω / 100KHz) 20°C	-10°C	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
50	220	1370	0.042	0.12	10.0	16.0	5.0	0.6	565-1709-ND	.38	2.60	18.35	EKZE500ELL221MJ16S
	270	1580	0.030	0.090	10.0	20.0	5.0	0.6	565-1710-ND	.37	2.73	19.50	EKZE500ELL271MJ20S
	330	1870	0.028	0.085	10.0	25.0	5.0	0.6	565-1711-ND	.47	3.44	24.55	EKZE500ELL331MJ25S
	470	2050	0.027	0.068	12.5	20.0	5.0	0.6	565-1712-ND	.51	3.74	26.75	EKZE500ELL471MK20S
	560	2410	0.023	0.059	12.5	25.0	5.0	0.6	565-1713-ND	.57	4.23	31.06	EKZE500ELL561MK25S
	680	2860	0.021	0.052	12.5	30.0	5.0	0.6	565-1714-ND	.63	4.67	34.31	EKZE500ELL681MK30S
	820	2960	0.019	0.051	12.5	35.0	5.0	0.6	565-1715-ND	.70	5.24	38.47	EKZE500ELL821MK35S
	820	2730	0.023	0.059	16.0	20.0	7.5	0.8	565-1716-ND	.72	5.36	39.34	EKZE500ELL821ML20S
	1000	3010	0.021	0.056	16.0	25.0	7.5	0.8	565-1717-ND	.82	6.08	44.67	EKZE500ELL102ML25S
63	15	165	0.88	3.5	5.0	11.0	2.0	0.5	565-1718-ND	.19	1.20	8.09	EKZE630ELL150ME11D
	33	265	0.35	1.4	6.3	11.0	2.5	0.5	565-1719-ND	.22	1.41	9.49	EKZE630ELL330MF11D
	56	500	0.22	0.88	8.0	11.5	3.5	0.6	565-1720-ND	.24	1.61	11.33	EKZE630ELL560MHB5D
	82	690	0.11	0.44	10.0	12.5	5.0	0.6	565-1721-ND	.38	2.60	18.35	EKZE630ELL820MJC5S
	82	665	0.16	0.64	8.0	15.0	3.5	0.6	565-1722-ND	.28	1.87	13.18	EKZE630ELL820MH15D
	120	950	0.076	0.31	10.0	16.0	5.0	0.6	565-1723-ND	.38	2.60	18.35	EKZE630ELL121MJ16S
	180	1150	0.072	0.29	12.5	16.0	5.0	0.6	565-1724-ND	.50	3.66	26.13	EKZE630ELL181MK16S
	220	1350	0.046	0.19	10.0	25.0	5.0	0.6	565-1725-ND	.43	3.17	22.66	EKZE630ELL221MJ25S
	390	1900	0.031	0.093	12.5	25.0	5.0	0.6	565-1726-ND	.58	4.31	31.66	EKZE630ELL391MK25S
	470	2300	0.028	0.084	12.5	30.0	5.0	0.6	565-1727-ND	.63	4.72	34.63	EKZE630ELL471MK30S
	680	2800	0.021	0.063	12.5	40.0	5.0	0.6	565-1728-ND	.79	5.86	43.06	EKZE630ELL681MK40S
	1000	2900	0.019	0.057	16.0	35.5	7.5	0.8	565-1729-ND	1.04	7.73	56.80	EKZE630ELL102MLP1S
	1500	3400	0.018	0.054	18.0	35.5	7.5	0.8	565-1730-ND	1.27	9.54	71.52	EKZE630ELL152MMP1S
	1800	3500	0.017	0.051	18.0	40.0	7.5	0.8	565-1731-ND	1.41	10.54	79.04	EKZE630ELL182MM40S
100	27	355	0.36	1.4	8.0	11.5	3.5	0.6	565-1732-ND	.24	1.62	11.41	EKZE101ELL270MHB5D
	39	450	0.25	1.0	8.0	15.0	3.5	0.6	565-1733-ND	.27	1.85	13.06	EKZE101ELL390MH15D
	47	480	0.17	0.66	10.0	12.5	5.0	0.6	565-1734-ND	.35	2.36	16.62	EKZE101ELL470MJC5S
	68	600	0.11	0.47	10.0	16.0	5.0	0.6	565-1735-ND	.40	2.70	19.04	EKZE101ELL680MJ16S
	100	750	0.11	0.34	12.5	16.0	5.0	0.6	565-1736-ND	.50	3.70	26.44	EKZE101ELL101MK16S
	120	900	0.069	0.28	10.0	25.0	5.0	0.6	565-1737-ND	.45	3.30	23.58	EKZE101ELL121MJ25S
	150	1100	0.062	0.18	12.5	20.0	5.0	0.6	565-1738-ND	.55	4.05	28.94	EKZE101ELL151MK20S
	220	1250	0.047	0.14	12.5	25.0	5.0	0.6	565-1739-ND	.63	4.72	34.63	EKZE101ELL221MK25S
	270	1500	0.042	0.13	12.5	30.0	5.0	0.6	565-1740-ND	.66	4.91	36.08	EKZE101ELL271MK30S
	330	1650	0.036	0.11	12.5	35.0	5.0	0.6	565-1741-ND	.74	5.52	40.54	EKZE101ELL331MK35S
	330	1500	0.045	0.14	18.0	20.0	7.5	0.8	565-1742-ND	.99	7.33	53.83	EKZE101ELL331MM20S
	470	1750	0.036	0.11	18.0	25.0	7.5	0.8	565-1743-ND	1.07	8.05	60.35	EKZE101ELL471MM25S
	560	2000	0.029	0.086	16.0	35.5	7.5	0.8	565-1744-ND	1.39	10.46	78.46	EKZE101ELL561MLP1S
	680	2200	0.027	0.081	18.0	35.5	7.5	0.8	565-1745-ND	1.49	11.21	84.06	EKZE101ELL681MMP1S
	820	2700	0.026	0.077	18.0	40.0	7.5	0.8	565-1746-ND	1.53	11.48	86.12	EKZE101ELL821MM40S

F

LXZ Series Aluminum Electrolytic Capacitors (Radial Lead)

High Reliability Lowest Impedance 105°C

RoHS COMPLIANT

Features: Miniature, Lowest Impedance, Long Life (2-8K Hours), Solvent Proof, 105°C Maximum Temperature

Specifications: • **Operating Temperature:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Leakage Current:** I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	6.3	10	16	25	35	50	63
Tan δ (DF)	0.22	0.19	0.16	0.14	0.12	0.10	0.08

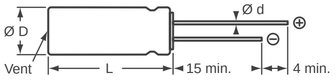

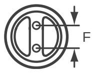

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100KHz	Maximum Impedance (Ω / 100KHz) 20°C	-10°C	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
6.3	150	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1873-ND	.29	1.95	13.75	ELXZ6R3ELL151MEB5D
	330	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1874-ND	.29	1.95	13.75	ELXZ6R3ELL331MFB5D
	470	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1875-ND	.33	2.45	17.50	ELXZ6R3ELL471MF15D
	680	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1876-ND	.35	2.34	16.50	ELXZ6R3ELL681MH12D
	820	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1877-ND	.33	2.45	17.50	ELXZ6R3ELL821MJC5S
	1000	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1878-ND	.38	2.80	20.00	ELXZ6R3ELL102MH15D
	1200	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1879-ND	.38	2.80	20.00	ELXZ6R3ELL122MJ16S
	1200	810	0080	0.16	8.0	20.0	3.5	0.6	565-1880-ND	.43	3.15	22.50	ELXZ6R3ELL122MH20D
	1500	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1881-ND	.48	3.50	25.00	ELXZ6R3ELL152MJ20S
	2200	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1882-ND	.57	4.20	30.00	ELXZ6R3ELL222MJ25S
	2700	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1883-ND	.56	4.16	30.55	ELXZ6R3ELL272MJ30S
	3300	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1884-ND	.65	4.80	35.25	ELXZ6R3ELL332MK20S
	3900	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1885-ND	.73	5.44	39.95	ELXZ6R3ELL392MK25S
	4700	2310	0.025	0.050	12.5	30.0	5.0	0.6	565-1886-ND	.86	6.40	47.00	ELXZ6R3ELL472MK30S
	5600	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1887-ND	.95	7.04	51.70	ELXZ6R3ELL562MK35S
	5600	2210	0.029	0.058	16.0	20.0	7.5	0.8	565-1888-ND	.95	7.04	51.70	ELXZ6R3ELL562ML20S
	6800	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1889-ND	1.00	7.50	56.25	ELXZ6R3ELL682MK40S
	6800	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1890-ND	1.04	7.80	58.50	ELXZ6R3ELL682ML25S
	6800	2490	0.028	0.056	18.0	20.0	7.5	0.8	565-1891-ND	1.44	10.80	81.00	ELXZ6R3ELL682MM20S
	8200	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1892-ND	1.08	8.10	60.75	ELXZ6R3ELL822ML30S
	10000	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1893-ND	1.32	9.90	74.25	ELXZ6R3ELL103ML35S
	10000	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1894-ND	1.36	10.20	76.50	ELXZ6R3ELL103MM25S
	12000	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-1895-ND	1.44	10.80	81.00	ELXZ6R3ELL123ML40S
	12000	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1896-ND	1.44	10.80	81.00	ELXZ6R3ELL123MM30S
	15000	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-1897-ND	1.72	12.90	96.75	ELXZ6R3ELL153MM35S
	18000	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-1898-ND	1.79	13.52	102.00	ELXZ6R3ELL183MM40S
10	100	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1899-ND	.23	1.56	11.00	ELXZ100ELL101MEB5D
	220	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1900-ND	.29	1.95	13.75	ELXZ100ELL221MFB5D
	330	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1901-ND	.29	1.95	13.75	ELXZ100ELL331MF15D
	470	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1902-ND	.35	2.34	16.50	ELXZ100ELL471MH12D
	680	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1903-ND	.33	2.45	17.50	ELXZ100ELL681MJC5S
	680	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1904-ND	.38	2.80	20.00	ELXZ100ELL681MH15D
	1000	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1905-ND	.43	3.15	22.50	ELXZ100ELL102MJ16S
	1000	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1906-ND	.43	3.15	22.50	ELXZ100ELL102MH20D
	1200	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1907-ND	.48	3.50	25.00	ELXZ100ELL122MJ20S
	1500	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1908-ND	.57	4.20	30.00	ELXZ100ELL152MJ25S

(Continued)

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100KHz	Maximum Impedance (Ω / 100KHz)		Dimensions (mm)				Digi-Key Part No.	Pricing			United Chemi-Con Part No.
			20°C	-10°C	øD	L	F	ød		1	10	100	
10	1800	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1909-ND	.56	4.16	30.55	ELXZ100ELL182MJ30S
	2200	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1910-ND	.65	4.80	35.25	ELXZ100ELL222MK20S
	3300	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1911-ND	.77	5.76	42.30	ELXZ100ELL332MK25S
	3900	2310	0.025	0.058	12.5	30.0	5.0	0.6	565-1912-ND	.86	6.40	47.00	ELXZ100ELL392MK30S
	3900	2210	0.029	0.058	16.0	20.0	7.5	0.8	565-1913-ND	.95	7.04	51.70	ELXZ100ELL392ML20S
	4700	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1914-ND	.95	7.04	51.70	ELXZ100ELL472MK35S
	5600	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1915-ND	1.00	7.50	56.25	ELXZ100ELL562MK40S
	5600	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1916-ND	1.08	8.10	60.75	ELXZ100ELL562ML25S
	5600	2490	0.028	0.056	18.0	20.0	7.5	0.8	565-1917-ND	1.16	8.70	65.25	ELXZ100ELL562MM20S
	6800	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1918-ND	1.20	9.00	67.50	ELXZ100ELL682ML30S
	6800	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1919-ND	1.56	11.70	87.75	ELXZ100ELL682MM25S
	8200	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1920-ND	1.40	10.50	78.75	ELXZ100ELL822ML35S
	8200	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1921-ND	1.44	10.80	81.00	ELXZ100ELL822MM30S
	10000	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-1922-ND	1.52	11.40	85.50	ELXZ100ELL103ML40S
	10000	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-1923-ND	1.93	14.58	110.00	ELXZ100ELL103MM35S
	12000	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-1924-ND	1.92	14.40	108.00	ELXZ100ELL123MM40S
16	47	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1925-ND	.23	1.56	11.00	ELXZ160ELL470MEB5D
	100	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1926-ND	.23	1.56	11.00	ELXZ160ELL101MFB5D
	220	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1927-ND	.29	1.95	13.75	ELXZ160ELL221MF15D
	330	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1928-ND	.35	2.34	16.50	ELXZ160ELL331MH12D
	470	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1929-ND	.33	2.45	17.50	ELXZ160ELL471MJC5S
	470	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1930-ND	.38	2.80	20.00	ELXZ160ELL471MH15D
	560	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1931-ND	.43	3.15	22.50	ELXZ160ELL561MH20D
	680	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1932-ND	.43	3.15	22.50	ELXZ160ELL681MJ16S
	1000	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1933-ND	.48	3.50	25.00	ELXZ160ELL102MJ20S
	1200	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1934-ND	.57	4.20	30.00	ELXZ160ELL122MJ25S
	1500	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1935-ND	.56	4.16	30.55	ELXZ160ELL152MJ30S
	1500	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1936-ND	.65	4.80	35.25	ELXZ160ELL152MK20S
	2200	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1937-ND	.77	5.76	42.30	ELXZ160ELL222MK25S
	2700	2310	0.025	0.050	12.5	30.0	5.0	0.6	565-1938-ND	.86	6.40	47.00	ELXZ160ELL272MK30S
	2700	2210	0.029	0.058	16.0	20.0	7.5	0.8	565-1939-ND	.95	7.04	51.70	ELXZ160ELL272ML20S
	3300	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1940-ND	.99	7.36	54.05	ELXZ160ELL332MK35S
	3900	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1941-ND	1.36	10.20	76.50	ELXZ160ELL392MK40S
	3900	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1942-ND	1.04	7.80	58.50	ELXZ160ELL392ML25S
	3900	2490	0.028	0.056	18.0	20.0	7.5	0.8	565-1943-ND	1.12	8.40	63.00	ELXZ160ELL392MM20S
	4700	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1944-ND	1.16	8.70	65.25	ELXZ160ELL472ML30S
	4700	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1945-ND	1.32	9.90	74.25	ELXZ160ELL472MM25S
	5600	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1946-ND	1.36	10.20	76.50	ELXZ160ELL562ML35S
	5600	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1947-ND	1.40	10.50	78.75	ELXZ160ELL562MM30S
	6800	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-1948-ND	1.76	13.20	99.00	ELXZ160ELL682ML40S
	8200	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-1949-ND	1.79	13.52	102.00	ELXZ160ELL822MM35S
	10000	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-1950-ND	1.79	13.52	102.00	ELXZ160ELL103MM40S
25	47	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1951-ND	.23	1.56	11.00	ELXZ250ELL470MEB5D
	100	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1952-ND	.29	1.95	13.75	ELXZ250ELL101MFB5D
	150	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1953-ND	.29	1.95	13.75	ELXZ250ELL151MF15D
	220	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1954-ND	.33	2.45	17.50	ELXZ250ELL221MH12D
	330	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1955-ND	.33	2.45	17.50	ELXZ250ELL331MJC5S
	330	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1956-ND	.38	2.80	20.00	ELXZ250ELL331MH15D
	390	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1957-ND	.43	3.15	22.50	ELXZ250ELL391MH20D
	470	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1958-ND	.38	2.80	20.00	ELXZ250ELL471MJ16S
	680	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1959-ND	.48	3.50	25.00	ELXZ250ELL681MJ20S
	820	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1960-ND	.57	4.20	30.00	ELXZ250ELL821MJ25S
	1000	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1961-ND	.56	4.16	30.55	ELXZ250ELL102MJ30S
	1000	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1962-ND	.60	4.48	32.90	ELXZ250ELL102MK20S
	1500	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1963-ND	.77	5.76	42.30	ELXZ250ELL152MK25S
	1800	2310	0.025	0.050	12.5	30.0	5.0	0.6	565-1964-ND	.86	6.40	47.00	ELXZ250ELL182MK30S
	1800	2210	0.029	0.058	16.0	20.0	7.5	0.8	565-1965-ND	.90	6.72	49.35	ELXZ250ELL182ML20S
	2200	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1966-ND	.99	7.36	54.05	ELXZ250ELL222MK35S
	2200	2490	0.028	0.056	18.0	20.0	7.5	0.8	565-1967-ND	1.08	8.10	60.75	ELXZ250ELL222MM20S
	2700	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1968-ND	1.00	7.50	56.25	ELXZ250ELL272MK40S
	2700	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1969-ND	1.04	7.80	58.50	ELXZ250ELL272ML25S
	3300	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1970-ND	1.20	9.00	67.50	ELXZ250ELL332ML30S
	3300	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1971-ND	1.32	9.90	74.25	ELXZ250ELL332MM25S
	3900	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1972-ND	1.60	12.00	90.00	ELXZ250ELL392ML35S
	3900	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1973-ND	1.44	10.80	81.00	ELXZ250ELL392MM30S
	4700	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-1974-ND	1.52	11.40	85.50	ELXZ250ELL472ML40S
	4700	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-1975-ND	1.64	12.30	92.25	ELXZ250ELL472MM35S
	5600	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-1976-ND	1.88	14.10	105.75	ELXZ250ELL562MM40S
35	33	175	0.50	1.0	5.0	11.5	2.0	0.5	565-1977-ND	.23	1.56	11.00	ELXZ350ELL330MEB5D
	56	290	0.25	0.50	6.3	11.5	2.5	0.5	565-1978-ND	.23	1.56	11.00	ELXZ350ELL560MFB5D
	100	400	0.18	0.36	6.3	15.0	2.5	0.5	565-1979-ND	.29	1.95	13.75	ELXZ350ELL101MF15D
	150	555	0.12	0.24	8.0	12.0	3.5	0.6	565-1980-ND	.33	2.45	17.50	ELXZ350ELL151MH12D
	220	760	0.090	0.18	10.0	12.5	5.0	0.6	565-1981-ND	.33	2.45	17.50	ELXZ350ELL221MJC5S
	220	730	0.090	0.18	8.0	15.0	3.5	0.6	565-1982-ND	.38	2.80	20.00	ELXZ350ELL221MH15D
	270	810	0.080	0.16	8.0	20.0	3.5	0.6	565-1983-ND	.43	3.15	22.50	ELXZ350ELL271MH20D
	330	1050	0.068	0.136	10.0	16.0	5.0	0.6	565-1984-ND	.43	3.15	22.50	ELXZ350ELL331MJ16S
	470	1220	0.052	0.104	10.0	20.0	5.0	0.6	565-1985-ND	.48	3.50	25.00	ELXZ350ELL471MJ20S
	560	1440	0.045	0.090	10.0	25.0	5.0	0.6	565-1986-ND	.57	4.20	30.00	ELXZ350ELL561MJ25S
	680	1690	0.037	0.074	10.0	30.0	5.0	0.6	565-1987-ND	.56	4.16	30.55	ELXZ350ELL681MJ30S
	680	1660	0.038	0.076	12.5	20.0	5.0	0.6	565-1988-ND	.60	4.48	32.90	ELXZ350ELL681MK20S
	1000	1950	0.030	0.060	12.5	25.0	5.0	0.6	565-1989-ND	.77	5.76	42.30	ELXZ350ELL102MK25S
	1200	2310	0.025	0.050	12.5	30.0	5.0	0.6	565-1990-ND	.86	6.40	47.00	ELXZ350ELL122MK30S
	1200	2210	0.029	0.058	16.0	20.0	7.5	0.8	565-1991-ND	.90	6.72	49.35	ELXZ350ELL122ML20S
	1500	2510	0.022	0.044	12.5	35.0	5.0	0.6	565-1992-ND	.95	7.04	51.70	ELXZ350ELL152MK35S
	1800	2870	0.017	0.034	12.5	40.0	5.0	0.6	565-1993-ND	1.00	7.50	56.25	ELXZ350ELL182MK40S
	1800	2560	0.022	0.044	16.0	25.0	7.5	0.8	565-1994-ND	1.04	7.80	58.50	ELXZ350ELL182ML25S
	1800	2490	0.028	0.056	18.0	20.0	7.5	0.8	565-1995-ND	1.16	8.70	65.25	ELXZ350ELL182MM20S
	2200	3010	0.019	0.038	16.0	30.0	7.5	0.8	565-1996-ND	1.40	10.50	78.75	ELXZ350ELL222ML30S
	2200	2740	0.020	0.040	18.0	25.0	7.5	0.8	565-1997-ND	1.28	9.60	72.00	ELXZ350ELL222MM25S
	2700	3150	0.017	0.034	16.0	35.0	7.5	0.8	565-1998-ND	1.36	10.20	76.50	ELXZ350ELL272ML35S
	2700	3330	0.018	0.036	18.0	30.0	7.5	0.8	565-1999-ND	1.48	11.10	83.25	ELXZ350ELL272MM30S
	3300	3710	0.015	0.030	16.0	40.0	7.5	0.8	565-2000-ND	1.56	11.70	87.75	ELXZ350ELL332ML40S
	3300	3680	0.016	0.032	18.0	35.0	7.5	0.8	565-2001-ND	1.68	12.60	94.50	ELXZ350ELL332MM35S
	3900	3800	0.015	0.030	18.0	40.0	7.5	0.8	565-2002-ND	1.88	14.10	105.75	ELXZ350ELL392MM40S

(Continued)

LXZ Series Aluminum Electrolytic Capacitors (Radial Lead) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @105°C 100KHz	Maximum Impedance (Ω / 100KHz) 20°C	-10°C	Dimensions (mm) øD	L	F	ød	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
50	22	155	0.90	1.8	5.0	11.5	2.0	0.5	565-2003-ND	.23	1.56	11.00	ELXZ500ELL220MEB5D
	47	260	0.45	0.90	6.3	11.5	2.5	0.5	565-2004-ND	.23	1.56	11.00	ELXZ500ELL470MFB5D
	68	360	0.31	0.62	6.3	15.0	2.5	0.5	565-2026-ND	.29	1.95	13.75	ELXZ500ELL680MF15D
	100	485	0.22	0.44	8.0	12.0	3.5	0.6	565-2005-ND	.35	2.34	16.50	ELXZ500ELL101MH12D
	120	620	0.16	0.32	10.0	12.5	5.0	0.6	565-2008-ND	.38	2.80	20.00	ELXZ500ELL121MJC5S
	120	635	0.16	0.32	8.0	15.0	3.5	0.6	565-2009-ND	.33	2.45	17.50	ELXZ500ELL121MH15D
	180	850	0.13	0.26	10.0	16.0	5.0	0.6	565-2013-ND	.38	2.80	20.00	ELXZ500ELL181MJ16S
	180	730	0.12	0.24	8.0	20.0	3.5	0.6	565-2014-ND	.43	3.15	22.50	ELXZ500ELL181MH20D
	220	1050	0.088	0.18	10.0	20.0	5.0	0.6	565-2017-ND	.43	3.15	22.50	ELXZ500ELL221MJ20S
	330	1250	0.073	0.15	10.0	25.0	5.0	0.6	565-2020-ND	.57	4.20	30.00	ELXZ500ELL331MJ25S
	390	1500	0.054	0.11	10.0	30.0	5.0	0.6	565-2021-ND	.73	5.44	39.95	ELXZ500ELL391MJ30S
	390	1480	0.059	0.12	12.5	20.0	5.0	0.6	565-2022-ND	.60	4.48	32.90	ELXZ500ELL391MK20S
	560	1840	0.044	0.088	12.5	25.0	5.0	0.6	565-2023-ND	.73	5.44	39.95	ELXZ500ELL561MK25S
	680	2220	0.039	0.078	12.5	30.0	5.0	0.6	565-2024-ND	.77	5.76	42.30	ELXZ500ELL681MK30S
	680	1840	0.048	0.096	16.0	20.0	7.5	0.8	565-2025-ND	.86	6.40	47.00	ELXZ500ELL681ML20S
	820	2290	0.033	0.066	12.5	35.0	5.0	0.6	565-2027-ND	.90	6.72	49.35	ELXZ500ELL821MK35S
	820	1980	0.042	0.084	18.0	20.0	7.5	0.8	565-2028-ND	1.08	8.10	60.75	ELXZ500ELL821MM20S
	1000	2500	0.029	0.058	12.5	40.0	5.0	0.6	565-2006-ND	1.03	7.68	56.40	ELXZ500ELL102MK40S
	1000	2240	0.034	0.068	16..0	25.0	7.5	0.8	565-2007-ND	1.00	7.50	56.25	ELXZ500ELL102ML25S
	1200	2700	0.028	0.056	16.0	30.0	7.5	0.8	565-2010-ND	1.28	9.60	72.00	ELXZ500ELL122ML30S
	1200	2610	0.029	0.058	18.0	25.0	7.5	0.8	565-2011-ND	1.16	8.70	65.25	ELXZ500ELL122MM25S
	1500	2800	0.025	0.050	16.0	35.0	7.5	0.8	565-2012-ND	1.44	10.80	81.00	ELXZ500ELL152ML35S
	1800	3200	0.021	0.042	16.0	40.0	7.5	0.8	565-2015-ND	1.40	10.50	78.75	ELXZ500ELL182ML40S
	1800	3000	0.025	0.050	18.0	30.0	7.5	0.8	565-2016-ND	1.48	11.10	83.25	ELXZ500ELL182MM30S
	2200	3100	0.023	0.046	18.0	35.0	7.5	0.8	565-2018-ND	1.64	12.30	92.25	ELXZ500ELL222MM35S
	2700	3400	0.020	0.040	18.0	40.0	7.5	0.8	565-2019-ND	2.00	15.11	114.00	ELXZ500ELL272MM40S
63	12	145	1.9	4.0	5.0	11.5	2.0	0.5	565-2035-ND	.22	1.38	9.30	ELXZ630ELL120MEB5D
	22	240	1.0	2.0	6.3	11.5	2.5	0.5	565-2041-ND	.23	1.56	11.00	ELXZ630ELL220MFB5D
	39	330	0.61	1.4	6.3	15.0	2.5	0.5	565-2045-ND	.23	1.56	11.00	ELXZ630ELL390MF15D
	68	405	0.34	0.75	8.0	12.0	3.5	0.6	565-2051-ND	.43	3.15	22.50	ELXZ630ELL680MH12D
	100	540	0.255	0.51	10.0	12.5	5.0	0.6	565-2029-ND	.33	2.45	17.50	ELXZ630ELL101MJC5S
	100	535	0.27	0.65	8.0	15.0	3.5	0.6	565-2030-ND	.35	2.34	16.50	ELXZ630ELL101MH15D
	120	600	0.19	0.38	10.0	16.0	5.0	0.6	565-2032-ND	.33	2.45	17.50	ELXZ630ELL121MJ16S
	150	690	0.21	0.52	8.0	20.0	3.5	0.6	565-2036-ND	.33	2.45	17.50	ELXZ630ELL151MH20D
	180	890	0.145	0.29	10.0	20.0	5.0	0.6	565-2038-ND	.38	2.80	20.00	ELXZ630ELL181MJ20S
	220	1050	0.13	0.26	10.0	25.0	5.0	0.6	565-2040-ND	.48	3.50	25.00	ELXZ630ELL221MJ25S
	330	1300	0.090	0.18	10.0	30.0	5.0	0.6	565-2042-ND	.57	4.20	30.00	ELXZ630ELL331MJ30S
	330	1290	0.085	0.17	12.5	20.0	5.0	0.6	565-2043-ND	.56	4.16	30.55	ELXZ630ELL331MK20S
	390	1720	0.070	0.14	12.5	25.0	5.0	0.6	565-2044-ND	.65	4.80	35.25	ELXZ630ELL391MK25S
	470	2090	0.055	0.11	12.5	30.0	5.0	0.6	565-2046-ND	.69	5.12	37.60	ELXZ630ELL471MK30S
	470	1770	0.059	0.12	16.0	20.0	7.5	0.8	565-2047-ND	.77	5.76	42.30	ELXZ630ELL471ML20S
	680	2270	0.047	0.094	12.5	35.0	5.0	0.6	565-2048-ND	.86	6.40	47.00	ELXZ630ELL681MK35S
	680	2160	0.050	0.10	16.0	25.0	7.5	0.8	565-2049-ND	.90	6.72	49.35	ELXZ630ELL681ML25S
	680	2290	0.055	0.11	18.0	20.0	7.5	0.8	565-2050-ND	1.00	7.50	56.25	ELXZ630ELL681MM20S
	820	2560	0.042	0.084	12.5	40.0	5.0	0.6	565-2052-ND	.95	7.04	51.70	ELXZ630ELL821MK40S
	820	2670	0.043	0.086	16.0	30.0	7.5	0.8	565-2053-ND	1.03	7.68	56.40	ELXZ630ELL821ML30S
	820	2590	0.043	0.086	18.0	25.0	7.5	0.8	565-2054-ND	1.08	8.10	60.75	ELXZ630ELL821MM25S
	1000	2770	0.036	0.072	16.0	35.0	7.5	0.8	565-2031-ND	1.28	9.60	72.00	ELXZ630ELL102ML35S
	1200	2850	0.030	0.060	16.0	40.0	7.5	0.8	565-2033-ND	1.24	9.30	69.75	ELXZ630ELL122ML40S
	1200	2950	0.032	0.064	18.0	30.0	7.5	0.8	565-2034-ND	1.36	10.20	76.50	ELXZ630ELL122MM30S
	1500	3100	0.030	0.060	18.0	35.0	7.5	0.8	565-2037-ND	1.60	12.00	90.00	ELXZ630ELL152MM35S
	1800	3210	0.025	0.050	18.0	40.0	7.5	0.8	565-2039-ND	1.72	12.90	96.75	ELXZ630ELL182MM40S

Alchip™ MVA Series Aluminum Electrolytic Capacitors (SMT)

General Purpose 85°C

Features: General Purpose, Solvent Proof (6.3-63V), 85°C Maximum Temperature (2000 Hour Life)
Specifications: • Operating Temperature: -40°C ~ 85°C **• Capacitance Tolerance:** ±20%

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 ~ 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 ~ 1.3	4.2
LH0	16	16.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
LN0	16	21.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
MH0	18	16.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5
MN0	18	21.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5

Terminal Code: A
Size Code: D55 ~ KG5

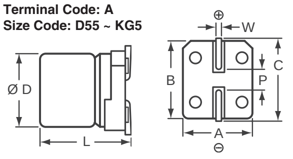

Terminal Code: G
Size Code: LH0 ~ MN0

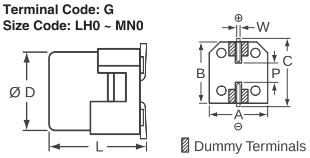

Leakage Current:

Case	
Case D55-JA0	I=0.01CV or 3µA, whichever is greater, after 2 minutes @ 20°C
Case KE0-MN0	I=0.03CV or 4µA, whichever is greater, after 1 minute @ 20°C

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions (mm) D	L	Digi-Key Part No.	Pricing 5	10	25	Digi-Key Part No.	Tape & Reel Size	Pricing	United Chemi-Con Part No.
6.3	33	D55	0.35	30	4.0	5.2	565-2055-1-ND	.51	.84	1.95	565-2055-2-ND	2,000	36.00/M	EMVA6R3ADA330MD55G
	47	D55	0.35	33	4.0	5.2	565-2056-1-ND	.72	1.19	2.76	565-2056-2-ND	2,000	51.00/M	EMVA6R3ADA470MD55G
	100	E55	0.35	55	5.0	5.2	565-2057-1-ND	.64	1.05	2.44	565-2057-2-ND	1,000	45.00	EMVA6R3ADA101ME55G
	220	F55	0.35	88	6.3	5.2	565-2058-1-ND	.79	1.30	3.02	565-2058-2-ND	1,000	56.00	EMVA6R3ADA221MF55G
	330	F80	0.35	135	6.3	7.7	565-2059-1-ND	.87	1.44	3.34	565-2059-2-ND	900	55.80	EMVA6R3ADA331MF80G
	470	HA0	0.35	280	8.0	10.0	565-2060-1-ND	1.37	2.26	5.25	565-2060-2-ND	500	48.50	EMVA6R3ADA471MHA0G
	680	HA0	0.35	290	8.0	10.0	565-2061-1-ND	1.36	2.24	5.20	565-2061-2-ND	500	48.00	EMVA6R3ADA681MHA0G
	820	HA0	0.35	320	8.0	10.0	565-2062-1-ND	1.36	2.24	5.20	565-2062-2-ND	500	48.00	EMVA6R3ADA821MHA0G
	1000	JA0	0.35	430	10.0	10.0	565-2063-1-ND	2.19	3.61	8.37	565-2063-2-ND	500	77.50	EMVA6R3ADA102MJA0G
	1500	JA0	0.35	480	10.0	10.0	565-2064-1-ND	2.19	3.61	8.38	565-2064-2-ND	500	77.50	EMVA6R3ADA152MJA0G
	2200	KE0	0.40	890	12.5	13.5	565-2065-1-ND	4.89	8.05	18.69	565-2065-2-ND	200	69.00	EMVA6R3ARA222MKE0S
	3300	KG5	0.42	1000	12.5	16.0	565-2066-1-ND	5.31	8.75	20.31	565-2066-2-ND	150	56.25	EMVA6R3ARA332MKG5S
	3300	LH0	0.42	1200	16.0	16.5	565-2067-1-ND	7.44	12.25	28.44	565-2067-2-ND	125	65.63	EMVA6R3GDA332MLH0S
	4700	LH0	0.44	1400	16.0	16.5	565-2068-1-ND	7.08	11.67	27.08	565-2068-2-ND	125	62.50	EMVA6R3GDA472MLH0S
	6800	LN0	0.48	1750	16.0	21.5	565-2069-1-ND	8.50	14.00	32.50	565-2069-2-ND	75	45.00	EMVA6R3GDA682MLN0S

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Alchip™ **MVA Series** Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions (mm)		Digi-Key	Pricing			Digi-Key	Tape & Reel		United Chemi-Con
					D	L	Part No.	5	10	25	Part No.	Size	Pricing	Part No.
6.3	6800	MH0	0.48	1700	18.0	16.5	565-2070-1-ND	9.56	15.75	36.56	565-2070-2-ND	125	84.38	EMVA6R3GDA682MMH0S
	10000	MN0	0.56	2000	18.0	21.5	565-2071-1-ND	8.93	14.70	34.13	565-2071-2-ND	75	47.25	EMVA6R3GDA103MMN0S
10	22	D55	0.30	26	4.0	5.2	565-2072-1-ND	.51	.84	1.95	565-2072-2-ND	2,000	36.00/M	EMVA100ADA220MD55G
	33	D55	0.30	30	4.0	5.2	565-2073-1-ND	.51	.84	1.95	565-2073-2-ND	2,000	36.00/M	EMVA100ADA330MD55G
	47	E55	0.30	44	5.0	5.2	565-2074-1-ND	.64	1.05	2.44	565-2074-2-ND	1,000	45.00	EMVA100ADA470ME55G
	100	F55	0.30	70	6.3	5.2	565-2075-1-ND	.72	1.19	2.76	565-2075-2-ND	1,000	51.00	EMVA100ADA101MF55G
	150	F55	0.30	79	6.3	5.2	565-2076-1-ND	.73	1.20	2.78	565-2076-2-ND	1,000	51.00	EMVA100ADA151MF55G
	220	F80	0.30	130	6.3	7.7	565-2077-1-ND	.87	1.44	3.33	565-2077-2-ND	900	55.80	EMVA100ADA221MF80G
	330	HA0	0.30	270	8.0	10.0	565-2078-1-ND	1.28	2.10	4.88	565-2078-2-ND	500	45.00	EMVA100ADA331MHA0G
	470	HA0	0.30	280	8.0	10.0	565-2079-1-ND	1.28	2.11	4.90	565-2079-2-ND	500	45.00	EMVA100ADA471MHA0G
	1000	JA0	0.30	430	10.0	10.0	565-2080-1-ND	2.34	3.85	8.94	565-2080-2-ND	500	82.50	EMVA100ADA102MJA0G
	2200	KE0	0.36	960	12.5	13.5	565-2081-1-ND	4.73	7.80	18.10	565-2081-2-ND	200	66.80	EMVA100ADA222MKE0S
	3300	LH0	0.38	1300	16.0	16.5	565-2082-1-ND	7.44	12.25	28.44	565-2082-2-ND	125	65.63	EMVA100GDA332MLH0S
	4700	LN0	0.40	1550	16.0	21.5	565-2083-1-ND	8.50	14.00	32.50	565-2083-2-ND	75	45.00	EMVA100GDA472MLN0S
	4700	MH0	0.40	1600	18.0	16.5	565-2084-1-ND	9.56	15.75	36.56	565-2084-2-ND	125	84.38	EMVA100GDA472MMH0S
	6800	MN0	0.44	1850	18.0	21.5	565-2085-1-ND	6.80	11.20	26.00	565-2085-2-ND	75	36.00	EMVA100GDA682MMN0S
16	22	D55	0.26	26	4.0	5.2	565-2086-1-ND	.55	.90	2.09	565-2086-2-ND	2,000	39.00/M	EMVA160ADA220MD55G
	33	E55	0.26	37	5.0	5.2	565-2087-1-ND	.66	1.09	2.53	565-2087-2-ND	1,000	47.00	EMVA160ADA330ME55G
	47	E55	0.26	44	5.0	5.2	565-2088-1-ND	.64	1.05	2.44	565-2088-2-ND	1,000	45.00	EMVA160ADA470ME55G
	100	F55	0.26	70	6.3	5.2	565-2089-1-ND	.78	1.28	2.98	565-2089-2-ND	1,000	55.00	EMVA160ADA101MF55G
	150	F80	0.26	110	6.3	7.7	565-2090-1-ND	.94	1.55	3.60	565-2090-2-ND	900	59.40	EMVA160ADA151MF80G
	220	F80	0.26	130	6.3	7.7	565-2091-1-ND	.96	1.59	3.68	565-2091-2-ND	900	61.20	EMVA160ADA221MF80G
	330	HA0	0.26	270	8.0	10.0	565-2092-1-ND	1.36	2.25	5.21	565-2092-2-ND	500	48.00	EMVA160ADA331MHA0G
	470	HA0	0.26	280	8.0	10.0	565-2093-1-ND	1.28	2.11	4.91	565-2093-2-ND	500	45.50	EMVA160ADA471MHA0G
	680	JA0	0.26	380	10.0	10.0	565-2094-1-ND	2.37	3.91	9.07	565-2094-2-ND	500	84.00	EMVA160ADA681MJA0G
	1000	KE0	0.30	710	12.5	13.5	565-2095-1-ND	4.68	7.70	17.88	565-2095-2-ND	200	66.00	EMVA160ARA102MKE0S
	2200	LH0	0.32	1150	16.0	16.5	565-2096-1-ND	7.40	12.20	28.31	565-2096-2-ND	125	65.38	EMVA160GDA222MLH0S
	3300	LN0	0.34	1450	16.0	21.5	565-2097-1-ND	8.50	14.00	32.50	565-2097-2-ND	75	45.00	EMVA160GDA332MLN0S
	3300	MH0	0.34	1450	18.0	16.5	565-2098-1-ND	9.56	15.75	36.56	565-2098-2-ND	125	84.38	EMVA160GDA332MMH0S
	4700	MN0	0.36	1750	18.0	21.5	565-2099-1-ND	9.45	15.56	36.13	565-2099-2-ND	75	50.03	EMVA160GDA472MMN0S
25	10	D55	0.16	24	4.0	5.2	565-2100-1-ND	.51	.84	1.95	565-2100-2-ND	2,000	36.00/M	EMVA250ADA100MD55G
	22	E55	0.16	41	5.0	5.2	565-2101-1-ND	.62	1.02	2.36	565-2101-2-ND	1,000	44.00	EMVA250ADA220ME55G
	33	E55	0.16	47	5.0	5.2	565-2102-1-ND	.67	1.10	2.55	565-2102-2-ND	1,000	47.00	EMVA250ADA330ME55G
	47	F55	0.16	60	6.3	5.2	565-2103-1-ND	.77	1.27	2.95	565-2103-2-ND	1,000	55.00	EMVA250ADA470MF55G
	56	F55	0.16	66	6.3	5.2	565-2104-1-ND	.77	1.26	2.93	565-2104-2-ND	1,000	54.00	EMVA250ADA560MF55G
	100	F80	0.16	120	6.3	7.7	565-2105-1-ND	.94	1.54	3.59	565-2105-2-ND	900	59.40	EMVA250ADA101MF80G
	150	HA0	0.16	210	8.0	10.0	565-2106-1-ND	1.36	2.24	5.20	565-2106-2-ND	500	48.00	EMVA250ADA151MHA0G
	220	HA0	0.16	260	8.0	10.0	565-2107-1-ND	1.37	2.26	5.24	565-2107-2-ND	500	48.50	EMVA250ADA221MHA0G
	330	HA0	0.16	300	8.0	10.0	565-2108-1-ND	1.40	2.30	5.34	565-2108-2-ND	500	49.50	EMVA250ADA331MHA0G
	470	JA0	0.16	400	10.0	10.0	565-2109-1-ND	2.37	3.91	9.07	565-2109-2-ND	500	84.00	EMVA250ADA471MJA0G
	1000	KE0	0.26	820	12.5	13.5	565-2110-1-ND	4.96	8.17	18.97	565-2110-2-ND	200	70.00	EMVA250ARA102MKE0S
	2200	LN0	0.28	1450	16.0	21.5	565-2111-1-ND	8.10	13.34	30.96	565-2111-2-ND	75	42.90	EMVA250GDA222MLN0S
	2200	MH0	0.28	1400	18.0	16.5	565-2112-1-ND	9.56	15.75	36.56	565-2112-2-ND	125	84.38	EMVA250GDA222MMH0S
	3300	MN0	0.30	1800	18.0	21.5	565-2113-1-ND	9.56	15.75	36.56	565-2113-2-ND	75	50.63	EMVA250GDA332MMN0S
35	4.7	D55	014	18	4.0	5.2	565-2114-1-ND	.54	.90	2.08	565-2114-2-ND	2,000	38.00/M	EMVA350ADA4R7MD55G
	10	D55	0.14	24	4.0	5.2	565-2115-1-ND	.51	.84	1.95	565-2115-2-ND	2,000	36.00/M	EMVA350ADA100MD55G
	22	E55	0.14	41	5.0	5.2	565-2116-1-ND	.66	1.09	2.53	565-2116-2-ND	1,000	47.00	EMVA350ADA220ME55G
	33	F55	0.14	54	6.3	5.2	565-2117-1-ND	.77	1.26	2.93	565-2117-2-ND	1,000	54.00	EMVA350ADA330MF55G
	47	F60	0.14	64	6.3	5.7	565-2118-1-ND	.85	1.40	3.25	565-2118-2-ND	1,000	60.00	EMVA350ADA470MF60G
	100	F80	0.14	120	6.3	7.7	565-2119-1-ND	.88	1.46	3.38	565-2119-2-ND	900	55.80	EMVA350ADA101MF80G
	150	HA0	0.14	210	8.0	10.0	565-2120-1-ND	1.25	2.07	4.79	565-2120-2-ND	500	44.50	EMVA350ADA151MHA0G
	220	HA0	0.14	260	8.0	10.0	565-2121-1-ND	1.29	2.13	4.94	565-2121-2-ND	500	45.50	EMVA350ADA221MHA0G
	330	JA0	0.14	360	10.0	10.0	565-2122-1-ND	2.34	3.85	8.94	565-2122-2-ND	500	82.50	EMVA350ADA331MJA0G
	470	KE0	0.22	600	12.5	13.5	565-2123-1-ND	4.89	8.05	18.69	565-2123-2-ND	200	67.40	EMVA350ARA471MKE0S
	1000	LH0	0.22	1100	16.0	16.5	565-2125-1-ND	7.44	12.25	28.44	565-2125-2-ND	125	65.63	EMVA350GDA102MLH0S
	2200	MN0	0.24	1700	18.0	21.5	565-2126-1-ND	9.56	15.75	36.56	565-2126-2-ND	75	50.63	EMVA350GDA222MMN0S
50	3.3	D55	0.12	15	4.0	5.2	565-2127-1-ND	.54	.90	2.08	565-2127-2-ND	2,000	38.00/M	EMVA500ADA3R3MD55G
	4.7	D55	0.12	18	4.0	5.2	565-2128-1-ND	.51	.84	1.95	565-2128-2-ND	2,000	36.00/M	EMVA500ADA4R7MD55G
	10	E55	0.12	30	5.0	5.2	565-2129-1-ND	.66	1.09	2.53	565-2129-2-ND	1,000	47.00	EMVA500ADA100ME55G
	22	F55	0.12	47	6.3	5.2	565-2130-1-ND	.74	1.23	2.84	565-2130-2-ND	1,000	53.00	EMVA500ADA220MF55G
	33	F80	0.12	70	6.3	7.7	565-2131-1-ND	.92	1.51	3.50	565-2131-2-ND	900	58.50	EMVA500ADA330MF80G
	47	F80	0.12	85	6.3	7.7	565-2132-1-ND	.92	1.52	3.53	565-2132-2-ND	900	58.50	EMVA500ADA470MF80G
	100	HA0	0.12	190	8.0	10.0	565-2133-1-ND	1.28	2.10	4.88	565-2133-2-ND	500	45.00	EMVA500ADA101MHA0G
	220	JA0	0.12	320	10.0	10.0	565-2134-1-ND	2.19	3.61	8.38	565-2134-2-ND	500	77.50	EMVA500ADA221MJA0G
	330	KE0	0.18	600	12.5	13.5	565-2135-1-ND	4.96	8.17	18.97	565-2135-2-ND	200	70.00	EMVA500ARA331MKE0S
	470	KG5	0.18	740	12.5	16.0	565-2136-1-ND	5.31	8.75	20.31	565-2136-2-ND	150	56.25	EMVA500ARA471MKG5S
	470	LH0	0.18	850	16.0	16.5	565-2137-1-ND	7.15	11.78	27.34	565-2137-2-ND	125	63.13	EMVA500GDA471MLH0S
	1000	LN0	0.18	1300	16.0	21.5	565-2138-1-ND	8.50	14.00	32.50	565-2138-2-ND	75	45.00	EMVA500GDA102MLN0S
	1000	MN0	0.18	1400	18.0	21.5	565-2139-1-ND	9.56	15.75	36.56	565-2139-2-ND	75	50.63	EMVA500ADA102MMN0S
63	0.10	D55	0.12	1.3	4.0	5.2	565-2140-1-ND	.54	.89	2.07	565-2140-2-ND	2,000	38.00/M	EMVA630ADAR10MD55G
	0.22	D55	0.12	3.0	4.0	5.2	565-2141-1-ND	.54	.89	2.07	565-2141-2-ND	2,000	38.00/M	EMVA630ADAR22MD55G
	0.33	D55	0.12	4.0	4.0	5.2	565-2142-1-ND	.53	.88	2.03	565-2142-2-ND	2,000	38.00/M	EMVA630ADAR33MD55G
	0.47	D55	0.12	5.0	4.0	5.2	565-2143-1-ND	.54	.89	2.07	565-2143-2-ND	2,000	38.00/M	EMVA630ADAR47MD55G
	1.0	D55	0.12	8.0	4.0	5.2	565-2144-1-ND	.53	.88	2.03	565-2144-2-ND	2,000	38.00/M	EMVA630ADA1R0MD55G
	2.2	D55	0.12	12	4.0	5.2	565-2145-1-ND	.54	.89	2.07	565-2145-2-ND	2,000	38.00/M	EMVA630ADA2R2MD55G
	3.3	E55	0.12	17	5.0	5.2	565-2146-1-ND	.64	1.05	2.44	565-2146-2-ND	1,000	45.00	EMVA630ADA3R3ME55G
	4.7	E55	0.12	20	5.0	5.2	565-2147-1-ND	.65	1.08	2.50	565-2147-2-ND	1,000	46.00	EMVA630ADA4R7ME55G
	10	F55	0.12	32	6.3	5.2	565-2148-1-ND	.76	1.25	2.91	565-2148-2-ND	1,000	54.00	EMVA630ADA100MF55G
	22	F80	0.12	60	6.3	7.7	565-2149-1-ND	.87	1.43	3.32	565-2149-2-ND	900	54.90	EMVA630ADA220MF80G
	33	HA0	0.12	110	8.0	10.0	565-2150-1-ND	1.36	2.24	5.20	565-2150-2-ND	500	48.00	EMVA630ADA330MHA0G
	47	HA0	0.12	130	8.0	10.0	565-2151-1-ND	1.24	2.04	4.75	565-2151-2-ND	500	44.00	EMVA630ADA470MHA0G
	56	JA0	0.12	160	10.0	10.0	565-2152-1-ND	2.19	3.61	8.37	565-2152-2-ND	500	77.50	EMVA630ADA560MJA0G
	68	JA0	0.12	170	10.0	10.0	565-2153-1-ND	2.19	3.61	8.37	565-2153-2-ND	500	77.50	EMVA630ADA680MJA0G
	100	KE0	0.14	380	12.5	13.5	565-2154-1-ND	4.89	8.05	18.69	565-2154-2-ND	200	69.00	EMVA630ARA101MKE0S
	220	KE0	0.14	580	12.5	13.5	565-2155-1-ND	4.89	8.05	18.69	565-2155-2-ND	200	69.00	EMVA630ARA221MKE0S
	330	KG5	0.14	720	12.5	16.0	565-2156-1-ND	5.11	8.41	19.52	565-2156-2-ND	150	54.00	EMVA630ARA331MKG5S
	330	LH0	0.14	820	16.0	16.5	565-2157-1-ND	5.11	8.41	19.52	565-2157-2-ND	125	45.00	EMVA630GDA331MLH0S
	470	LH0	0.14	950	16.0	16.5	565-2158-1-ND	7.44	12.25	28.44	565-2158-2-ND	125	65.63	EMVA630GDA471MLH0S
	470	MH0	0.14	1000	18.0	16.5	565-2159-1-ND	9.56	15.75	36.56	565-2159-2-ND	125	84.38	EMVA630GDA471MMH0S
100	22	HA0	0.12	90	8.0	10.0	565-2160-1-ND	1.28	2.10	4.88	565-2160-2-ND	500	45.00	EMVA101ADA220MHA0G
	33	JA0	0.12	120	10.0	10.0	565-2161-1-ND	2.37	3.91	9.07	565-2161-2-ND	500	84.00	EMVA101ADA330MJA0G
	68	KE0	0.10	380	12.5	13.5	565-2162-1-ND	4.68	7.70	17.88	565-2162-2-ND	200	66.00	EMVA101ARA680MKE0S
	100	KE0	0.10	440	12.5	13.5	565-2163-1-ND	4.92	8.11	18.83	565-2163-2-ND	200	69.60	EMVA101ARA101MKE0S
	220	LN0	0.10	850	16.0	21.5	565-2164-1-ND	8.50	14.00	32.50	565-2164-2-ND	75	45.00	EMVA101GDA221MLN0S
	220	MH0	0.10	800	18.0	16.5	565-2165-1-ND	9.56	15.75	36.56	565-2165-2-ND	125	84.38	EMVA101GDA221MMH0S
	330	MN0	0.10	1000	18.0	21.5	565-2166-1-ND	9.37	15.44	35.84	565-2166-2-ND	75	49.65	EMVA101GDA331MMN0S

Alchip™ MVE Series Aluminum Electrolytic Capacitors (SMT)

High Temperature 105°C

Features: General Purpose, Solvent Proof (6.3-63V), 105°C Maximum Temperature (1000 ~ 2000 Hour Life)
Specifications: • **Operating Temperature:** -40°C ~ 105°C • **Capacitance Tolerance:** ±20%

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D55	4.0	5.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E55	5.0	5.2	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
HA0	8.0	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10.0	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 ~ 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 ~ 1.3	4.2
LH0	16.0	16.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
LN0	16.0	21.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
MH0	18.0	16.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5
MN0	18.0	21.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5

Terminal Code: A
Size Code: D55 ~ KG5

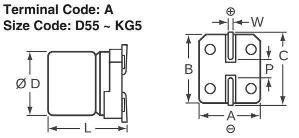

Terminal Code: G
Size Code: LH0 ~ MN0

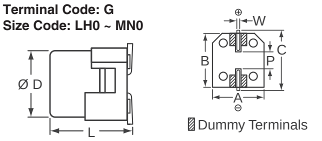

Leakage Current:

Case D55-JA0	I=0.01CV or 3μA, whichever is greater, after 2 minutes @ 20°C
Case KE0-MN0	I=0.03CV or 4μA, whichever is greater, after 1 minute @ 20°C

Rated W.V. (VDC)	Cap. (μF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 105°C 120Hz	Dimensions (mm) D	Dimensions (mm) L	Digi-Key Part No.	Pricing 5	Pricing 10	Pricing 25	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	United Chemi-Con Part No.
6.3	22	D55	0.30	22	4.0	5.2	565-2167-1-ND	.66	1.08	2.51	565-2167-2-ND	2,000	46.00/M	EMVE6R3ADA220MD55G
	33	E55	0.30	34	5.0	5.2	565-2168-1-ND	.72	1.18	2.75	565-2168-2-ND	1,000	51.00	EMVE6R3ADA330ME55G
	47	E55	0.30	38	5.0	5.2	565-2169-1-ND	.72	1.18	2.75	565-2169-2-ND	1,000	51.00	EMVE6R3ADA470ME55G
	100	F55	0.30	69	6.3	5.2	565-2170-1-ND	.79	1.30	3.01	565-2170-2-ND	1,000	56.00	EMVE6R3ADA101MF55G
	220	F80	0.45	120	6.3	7.7	565-2171-1-ND	.97	1.60	3.71	565-2171-2-ND	900	61.20	EMVE6R3ADA221MF80G
	330	HA0	0.40	290	8.0	10.0	565-2172-1-ND	1.41	2.32	5.38	565-2172-2-ND	500	49.50	EMVE6R3ADA331MHA0G
	470	HA0	0.45	320	8.0	10.0	565-2173-1-ND	1.41	2.32	5.38	565-2173-2-ND	500	49.50	EMVE6R3ADA471MHA0G
	680	HA0	0.45	340	8.0	10.0	565-2174-1-ND	1.41	2.32	5.38	565-2174-2-ND	500	49.50	EMVE6R3ADA681MHA0G
	1000	JA0	0.40	410	10.0	10.0	565-2175-1-ND	2.37	3.91	9.07	565-2175-2-ND	500	84.00	EMVE6R3ADA102MJA0G
	1500	JA0	0.45	550	10.0	10.0	565-2176-1-ND	2.37	3.91	9.07	565-2176-2-ND	500	84.00	EMVE6R3ADA152MJA0G
	2200	KE0	0.40	680	12.5	13.5	565-2177-1-ND	5.32	8.75	20.32	565-2177-2-ND	200	75.00	EMVE6R3ARA222MKE0S
	2200	LH0	0.40	840	16.0	16.5	565-2178-1-ND	5.63	9.27	21.52	565-2178-2-ND	125	49.63	EMVE6R3GDA222MLH0S
	3300	KG5	0.42	850	12.5	16.0	565-2179-1-ND	5.32	8.75	20.32	565-2179-2-ND	150	56.25	EMVE6R3ARA332MKG5S
	3300	MH0	0.42	1000	18.0	16.5	565-2180-1-ND	9.07	14.93	34.67	565-2180-2-ND	125	80.00	EMVE6R3GDA332MMH0S
	4700	LN0	0.44	1200	16.0	21.5	565-2181-1-ND	10.01	16.48	38.26	565-2181-2-ND	75	52.95	EMVE6R3GDA472MLN0S
	4700	MH0	0.44	1200	18.0	16.5	565-2182-1-ND	9.07	14.93	34.67	565-2182-2-ND	125	80.00	EMVE6R3GDA472MMH0S
	6800	LN0	0.48	1200	16.0	21.5	565-2183-1-ND	10.01	16.48	38.26	565-2183-2-ND	75	52.95	EMVE6R3GDA682MLN0S
	6800	MN0	0.48	1350	18.0	21.5	565-2184-1-ND	10.01	16.48	38.26	565-2184-2-ND	75	52.95	EMVE6R3GDA682MMN0S
10	22	E55	0.24	30	5.0	5.2	565-2185-1-ND	.72	1.18	2.75	565-2185-2-ND	1,000	51.00	EMVE100ADA220ME55G
	33	E55	0.24	34	5.0	5.2	565-2186-1-ND	.71	1.16	2.70	565-2186-2-ND	1,000	50.00	EMVE100ADA330ME55G
	47	F55	0.24	48	6.3	5.2	565-2187-1-ND	.78	1.28	2.98	565-2187-2-ND	1,000	55.00	EMVE100ADA470MF55G
	100	F55	0.30	69	6.3	5.2	565-2188-1-ND	.77	1.26	2.93	565-2188-2-ND	1,000	54.00	EMVE100ADA101MF55G
	150	F80	0.35	100	6.3	7.7	565-2189-1-ND	.97	1.60	3.71	565-2189-2-ND	900	61.20	EMVE100ADA151MF80G
	220	F80	0.35	120	6.3	7.7	565-2190-1-ND	.97	1.59	3.69	565-2190-2-ND	900	61.20	EMVE100ADA221MF80G
	330	HA0	0.35	290	8.0	10.0	565-2191-1-ND	1.38	2.27	5.27	565-2191-2-ND	500	48.50	EMVE100ADA331MHA0G
	470	HA0	0.35	320	8.0	10.0	565-2192-1-ND	1.40	2.31	5.36	565-2192-2-ND	500	49.50	EMVE100ADA471MHA0G
	1000	JA0	0.35	410	10.0	10.0	565-2193-1-ND	2.37	3.91	9.07	565-2193-2-ND	500	84.00	EMVE100ADA102MJA0G
	2200	KG5	0.36	750	12.5	16.0	565-2194-1-ND	5.22	8.59	19.94	565-2194-2-ND	150	55.20	EMVE100ARA222MKG5S
	2200	LH0	0.36	850	16.0	16.5	565-2195-1-ND	5.22	8.59	19.94	565-2195-2-ND	125	46.00	EMVE100GDA222MLH0S
	3300	LH0	0.38	1000	16.0	16.5	565-2196-1-ND	5.63	9.27	21.52	565-2196-2-ND	125	49.63	EMVE100GDA332MLH0S
	3300	MH0	0.38	1100	18.0	16.5	565-2197-1-ND	9.07	14.93	34.67	565-2197-2-ND	125	80.00	EMVE100GDA332MMH0S
	4700	LN0	0.40	1300	16.0	21.5	565-2198-1-ND	10.01	16.48	38.26	565-2198-2-ND	75	52.95	EMVE100GDA472MLN0S
	4700	MN0	0.40	1350	18.0	21.5	565-2199-1-ND	10.01	16.48	38.26	565-2199-2-ND	75	52.95	EMVE100GDA472MMN0S
16	10	D55	0.20	17	4.0	5.2	565-2201-1-ND	.64	1.06	2.46	565-2201-2-ND	2,000	45.00/M	EMVE160ADA100MD55G
	22	E55	0.20	30	5.0	5.2	565-2202-1-ND	.71	1.17	2.73	565-2202-2-ND	1,000	50.00	EMVE160ADA220ME55G
	33	F55	0.20	45	6.3	5.2	565-2203-1-ND	.79	1.30	3.01	565-2203-2-ND	1,000	56.00	EMVE160ADA330MF55G
	47	F55	0.20	48	6.3	5.2	565-2200-1-ND	.79	1.30	3.01	565-2200-2-ND	1,000	56.00	EMVE160ADA470MF55G
	100	F55	0.26	69	6.3	5.2	565-2204-1-ND	.78	1.28	2.98	565-2204-2-ND	1,000	55.00	EMVE160ADA101MF55G
	150	F80	0.28	100	6.3	7.7	565-2205-1-ND	.95	1.56	3.62	565-2205-2-ND	900	60.30	EMVE160ADA151MF80G
	220	F80	0.28	120	6.3	7.7	565-2206-1-ND	.96	1.58	3.66	565-2206-2-ND	900	61.20	EMVE160ADA221MF80G
	330	HA0	0.28	290	8.0	10.0	565-2207-1-ND	1.38	2.27	5.27	565-2207-2-ND	500	48.50	EMVE160ADA331MHA0G
	470	HA0	0.28	320	8.0	10.0	565-2208-1-ND	1.41	2.33	5.40	565-2208-2-ND	500	50.00	EMVE160ADA471MHA0G
	680	JA0	0.28	470	10.0	10.0	565-2209-1-ND	2.37	3.91	9.07	565-2209-2-ND	500	84.00	EMVE160ADA681MJA0G
	1000	KE0	0.30	550	12.5	13.5	565-2210-1-ND	5.22	8.59	19.94	565-2210-2-ND	200	73.60	EMVE160ARA102MKE0S
	1000	LH0	0.30	650	16.0	16.5	565-2211-1-ND	5.22	8.59	19.94	565-2211-2-ND	125	46.00	EMVE160GDA102MLH0S
	2200	LH0	0.32	950	16.0	16.5	565-2212-1-ND	5.63	9.27	21.52	565-2212-2-ND	125	49.63	EMVE160GDA222MLH0S
	2200	MH0	0.32	1000	18.0	16.5	565-2213-1-ND	9.07	14.93	34.67	565-2213-2-ND	125	80.00	EMVE160GDA222MMH0S
	3300	LN0	0.34	1200	16.0	21.5	565-2214-1-ND	10.01	16.48	38.26	565-2214-2-ND	75	52.95	EMVE160GDA332MLN0S
	3300	MH0	0.34	1200	18.0	16.5	565-2215-1-ND	9.07	14.93	34.67	565-2215-2-ND	125	80.00	EMVE160GDA332MMH0S
25	10	E55	0.16	27	5.0	5.2	565-2216-1-ND	.71	1.17	2.73	565-2216-2-ND	1,000	50.00	EMVE250ADA100ME55G
	22	F55	0.16	44	6.3	5.2	565-2217-1-ND	.78	1.28	2.96	565-2217-2-ND	1,000	55.00	EMVE250ADA220MF55G
	33	F55	0.16	50	6.3	5.2	565-2218-1-ND	.78	1.28	2.98	565-2218-2-ND	1,000	55.00	EMVE250ADA330MF55G
	47	F55	0.16	60	6.3	5.2	565-2219-1-ND	.77	1.27	2.95	565-2219-2-ND	1,000	55.00	EMVE250ADA470MF55G
	100	F80	0.18	100	6.3	7.7	565-2220-1-ND	.96	1.58	3.66	565-2220-2-ND	900	61.20	EMVE250ADA101MF80G
	150	HA0	0.18	240	8.0	10.0	565-2221-1-ND	1.41	2.32	5.38	565-2221-2-ND	500	49.50	EMVE250ADA151MHA0G
	220	HA0	0.18	320	8.0	10.0	565-2222-1-ND	1.38	2.27	5.26	565-2222-2-ND	500	48.50	EMVE250ADA221MHA0G
	330	JA0	0.16	450	10.0	10.0	565-2223-1-ND	2.37	3.91	9.07	565-2223-2-ND	500	84.00	EMVE250ADA331MJA0G
	470	JA0	0.18	490	10.0	10.0	565-2224-1-ND	2.37	3.91	9.07	565-2224-2-ND	500	84.00	EMVE250ADA471MJA0G
	1000	LH0	0.26	820	16.0	16.5	565-2225-1-ND	5.63	9.27	21.52	565-2225-2-ND	125	49.63	EMVE250GDA102MLH0S
	1000	MH0	0.26	880	18.0	16.5	565-2226-1-ND	9.07	14.93	34.67	565-2226-2-ND	125	80.00	EMVE250GDA102MMH0S
	2200	LN0	0.28	1250	16.0	21.5	565-2227-1-ND	8.32	13.70	31.80	565-2227-2-ND	75	44.03	EMVE250GDA222MLN0S
	2200	MN0	0.28	1300	18.0	21.5	565-2228-1-ND	10.01	16.48	38.26	565-2228-2-ND	75	52.95	EMVE250GDA222MMN0S
35	4.7	D55	0.14	16	4.0	5.2	565-2229-1-ND	.64	1.06	2.46	565-2229-2-ND	2,000	45.00/M	EMVE350ADA4R7MD55G
	10	E55	0.14	27	5.0	5.2	565-2230-1-ND	.72	1.18	2.74	565-2230-2-ND	1,000	51.00	EMVE350ADA100ME55G
	22	F55	0.14	44	6.3	5.2	565-2231-1-ND	.78	1.29	2.99	565-2231-2-ND	1,000	55.00	EMVE350ADA220MF55G
	33	F60	0.14	54	6.3	5.7	565-2232-1-ND	.80	1.32	3.07	565-2232-2-ND	1,000	57.00	EMVE350ADA330MF60G
	47	F80	0.16	80	6.3	7.7	565-2233-1-ND	.92	1.52	3.53	565-2233-2-ND	900	58.50	EMVE350ADA470MF80G
	100	F80	0.16	100	6.3	7.7	565-2234-1-ND	.97	1.60	3.71	565-2234-2-ND	900	61.20	EMVE350ADA101MF80G
	150	HA0	0.16	260	8.0	10.0	565-2235-1-ND	1.37	2.26	5.24	565-2235-2-ND	500	48.50	EMVE350ADA151MHA0G
	220	JA0	0.16	375	10.0	10.0	565-2236-1-ND	2.37	3.91	9.07	565-2236-2-ND	500	84.00	EMVE350ADA221MJA0G
	330	JA0	0.16	450	10.0	10.0	565-2237-1-ND	2.37	3.91	9.07	565-2237-2-ND	500	84.00	EMVE350ADA331MJA0G
	470	KE0	0.22	520	12.5	13.5	565-2238-1-ND	4.92	8.11	18.83	565-2238-2-ND	200	69.60	EMVE350ARA471MKE0S
	470	LH0	0.22	650	16.0	16.5	565-2239-1-ND	4.92	8.11	18.83	565-2239-2-ND	125	43.50	EMVE350GDA471MLH0S
	1000	LH0	0.22	750	16.0	16.5	565-2240-1-ND	5.63	9.27	21.52	565-2240-2-ND	125	49.63	EMVE350GDA102MLH0S
	1000	MH0	0.22	1000	18.0	16.5	565-2241-1-ND	9.07	14.93	34.67	565-2241-2-ND	125	80.00	EMVE350GDA102MMH0S
	2200	MN0	0.24	1450	18.0	21.5	565-2242-1-ND	10.25	16.88	39.19	565-2242-2-ND	75	54.23	EMVE350GDA222MMN0S
50	0.47	D55	0.12	5.0	4.0	5.2	565-2243-1-ND	.64	1.06	2.45	565-2243-2-ND	2,000	45.00/M	EMVE500ADAR47MD55G
	1.0	D55	0.12	8.0	4.0	5.2	565-2244-1-ND	.64	1.06	2.45	565-2244-2-ND	2,000	45.00/M	EMVE500ADA1R0MD55G
	2.2	D55	0.12	12	4.0	5.2	565-2245-1-ND	.64	1.06	2.45	565-2245-2-ND	2,000	45.00/M	EMVE500ADA2R2MD55G
	3.3	D55	0.12	15	4.0	5.2	565-2246-1-ND	.64	1.06	2.46	565-2246-2-ND	2,000	45.00/M	EMVE500ADA3R3MD55G
	4.7	E55	0.12	20	5.0	5.2	565-2247-1-ND	.71	1.17	2.71	565-2247-2-ND	1,000	50.00	EMVE500ADA4R7ME55G
	10	F55	0.12	32	6.3	5.2	565-2248-1-ND	.78	1.28	2.98	565-2248-2-ND	1,000	55.00	EMVE500ADA100MF55G
	22	F60	0.12	47	6.3	5.7	565-2249-1-ND	.80	1.32	3.06	565-2249-2-ND	1,000	57.00	EMVE500ADA220MF60G
	33	F80	0.14	65	6.3	7.7	565-2250-1-ND	.92	1.51	3.51	565-2250-2-ND	900	58.50	EMVE500ADA330MF80G
	47	F80	0.14	80	6.3	7.7	565-2251-1-ND	.94	1.54	3.59	565-2251-2-ND	900	59.40	EMVE500ADA470MF80G
	100	HA0	0.14	230	8.0	10.0	565-2252-1-ND	1.38	2.27	5.26	565-2252-2-ND	500	48.50	EMVE500ADA101MHA0G

(Continued)

Alchip™ MVE Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 105°C 120Hz	Dimensions (mm)		Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel		United Chemi-Con Part No.
					D	L		5	10	25		Size	Pricing	
50	220	JA0	0.14	375	10.0	10.0	565-2253-1-ND	2.37	3.91	9.07	565-2253-2-ND	500	84.00	EMVE500ADA221MJA0G
	330	KE0	0.18	500	12.5	13.5	565-2254-1-ND	5.40	8.89	20.65	565-2254-2-ND	200	76.20	EMVE500ARA331MKE0S
	330	LH0	0.18	600	16.0	16.5	565-2255-1-ND	5.40	8.89	20.65	565-2255-2-ND	125	47.63	EMVE500GDA331MLH0S
	470	LH0	0.18	700	16.0	16.5	565-2256-1-ND	7.51	12.38	28.73	565-2256-2-ND	125	66.25	EMVE500GDA471MLH0S
	470	MH0	0.18	750	18.0	16.5	565-2257-1-ND	9.07	14.93	34.67	565-2257-2-ND	125	80.00	EMVE500GDA471MMH0S
	1000	MN0	0.18	1200	18.0	21.5	565-2258-1-ND	9.74	16.04	37.24	565-2258-2-ND	75	51.60	EMVE500GDA102MMN0S
63	0.47	D55	0.12	5.0	4.0	5.2	565-2259-1-ND	.66	1.08	2.51	565-2259-2-ND	2,000	46.00/M	EMVE630ADAR47MD55G
	1.0	D55	0.12	8.0	4.0	5.2	565-2260-1-ND	.66	1.08	2.51	565-2260-2-ND	2,000	46.00/M	EMVE630ADA1R0MD55G
	2.2	D55	0.12	12	4.0	5.2	565-2261-1-ND	.66	1.08	2.51	565-2261-2-ND	2,000	46.00/M	EMVE630ADA2R2MD55G
	3.3	E55	0.12	17	5.0	5.2	565-2262-1-ND	.72	1.18	2.75	565-2262-2-ND	1,000	51.00	EMVE630ADA3R3ME55G
	4.7	F55	0.12	22	6.3	5.2	565-2263-1-ND	.78	1.29	2.99	565-2263-2-ND	1,000	55.00	EMVE630ADA4R7MF55G
	10	F55	0.12	32	6.3	5.2	565-2264-1-ND	.78	1.29	2.99	565-2264-2-ND	1,000	55.00	EMVE630ADA100MF55G
	22	F80	0.12	58	6.3	7.7	565-2265-1-ND	.97	1.60	3.71	565-2265-2-ND	900	61.20	EMVE630ADA220MF80G
	33	HA0	0.12	140	8.0	10.0	565-2266-1-ND	1.41	2.32	5.38	565-2266-2-ND	500	49.50	EMVE630ADA330MHA0G
	47	HA0	0.12	170	8.0	10.0	565-2267-1-ND	1.41	2.32	5.38	565-2267-2-ND	500	49.50	EMVE630ADA470MHA0G
	100	JA0	0.12	310	10.0	10.0	565-2268-1-ND	2.37	3.91	9.07	565-2268-2-ND	500	84.00	EMVE630ADA101MJA0G
	220	KE0	0.14	470	12.5	13.5	565-2269-1-ND	5.32	8.75	20.32	565-2269-2-ND	200	75.00	EMVE630ARA221MKE0S
	220	LH0	0.14	560	16.0	16.5	565-2270-1-ND	5.63	9.27	21.52	565-2270-2-ND	125	49.63	EMVE630GDA221MLH0S
	330	LH0	0.14	700	16.0	16.5	565-2271-1-ND	5.74	9.45	21.94	565-2271-2-ND	125	50.63	EMVE630GDA331MLH0S
	330	MH0	0.14	750	18.0	16.5	565-2272-1-ND	9.07	14.93	34.67	565-2272-2-ND	125	80.00	EMVE630GDA331MMH0S
	470	LN0	0.14	900	16.0	21.5	565-2273-1-ND	10.01	16.48	38.26	565-2273-2-ND	75	52.95	EMVE630GDA471MLN0S
	470	MH0	0.14	900	18.0	16.5	565-2274-1-ND	9.07	14.93	34.67	565-2274-2-ND	125	80.00	EMVE630GDA471MMH0S
100	22	HA0	0.12	100	8.0	10.0	565-2275-1-ND	1.44	2.36	5.49	565-2275-2-ND	500	50.50	EMVE101ADA220MHA0G
	33	JA0	0.12	150	10.0	10.0	565-2276-1-ND	2.37	3.91	9.07	565-2276-2-ND	500	84.00	EMVE101ADA330MJA0G
	47	KE0	0.10	250	12.5	13.5	565-2277-1-ND	5.00	8.23	19.10	565-2277-2-ND	200	70.60	EMVE101ARA470MKE0S
	68	KE0	0.10	300	12.5	13.5	565-2278-1-ND	5.11	8.41	19.52	565-2278-2-ND	200	72.00	EMVE101ARA680MKE0S
	100	LH0	0.10	450	16.0	16.5	565-2279-1-ND	7.22	11.90	27.62	565-2279-2-ND	125	63.75	EMVE101GDA101MLH0S
	100	KE0	0.10	380	12.5	13.5	565-2280-1-ND	5.00	8.23	19.10	565-2280-2-ND	200	70.60	EMVE101ARA101MKE0S
	220	LN0	0.10	750	16.0	21.5	565-2281-1-ND	10.01	16.48	38.26	565-2281-2-ND	75	52.95	EMVE101GDA221MLN0S
	220	MH0	0.10	750	18.0	16.5	565-2282-1-ND	9.05	14.90	34.59	565-2282-2-ND	125	79.88	EMVE101GDA221MMH0S
	330	MN0	0.10	980	18.0	21.5	565-2283-1-ND	9.89	16.28	37.80	565-2283-2-ND	75	52.35	EMVE101GDA331MMN0S

Alchip™ MVH Series Aluminum Electrolytic Capacitors (SMT)

High Temperature 125°C

Features: 125°C Maximum Temperature (1000 ~ 5000 Hour Life), Solvent Proof (10-50V)
Specifications: • **Operating Temperature:** -40°C ~ 125°C • **Capacitance Tolerance:** ±20%

Case Dimensions:

Size Code	D	L	A	B	C	W	P
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H63	8.0	6.3	8.3	8.3	9.0	0.5 ~ 0.8	2.3
HA0	8.0	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10.0	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 ~ 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 ~ 1.3	4.2
LH0	16.0	16.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
LN0	16.0	21.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
MH0	18.0	16.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5
MN0	18.0	21.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5

Terminal Code: A
Size Code: F60 ~ KG5

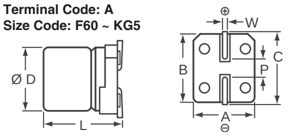

Terminal Code: G
Size Code: LH0 ~ MN0

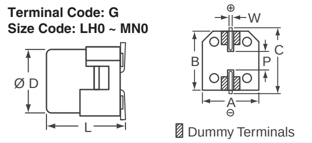

Leakage Current @ 20°C 120Hz:

Case F60 to JA0	I=0.01CV or 3µA, whichever is greater
Case KE0 to MN0	I=0.03CV or 4µA, whichever is greater

Dissipation Factor @ 20°C 120Hz:

Rated Voltage (V)	10	16	25	35	50	63	100
Case F60-JA0	0.24	0.20	0.16	0.14	0.14	0.12	0.10
Case KE0-MN0	0.22	0.18	0.16	0.14	0.12	0.14	0.10

Rated W.V. (VDC)	Cap. (µF)	Size Code	Maximum ESR (Ω) @ 100KHz		Rated Ripple Current (mA RMS) 100KHz	Dimensions (mm)		Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel		United Chemi Con Part No.
			20°C	-40°C		D	L		5	10	25		Size	Pricing	
10	100	F80	0.90	14.0	110	6.3	7.7	565-2284-1-ND	.97	1.60	3.71	565-2284-2-ND	900	61.20	EMVH100ADA101MF80G
	100	H63	0.90	14.0	110	8.0	6.3	565-2285-1-ND	1.25	2.06	4.78	565-2285-2-ND	1,000	88.00	EMVH100ADA101MH63G
	220	HA0	0.40	6.0	220	8.0	10.0	565-2286-1-ND	1.83	3.01	6.99	565-2286-2-ND	500	64.50	EMVH100ADA221MHA0G
	330	JA0	0.30	4.5	296	10.0	10.0	565-2287-1-ND	3.09	5.09	11.81	565-2287-2-ND	500	109.00	EMVH100ADA331MJA0G
	1000	KE0	0.14	2.1	750	12.5	13.5	565-2288-1-ND	5.53	9.10	21.13	565-2288-2-ND	200	78.00	EMVH100ARA102MKE0S
	2200	LH0	0.10	1.5	1000	16.0	16.5	565-2289-1-ND	8.16	13.44	31.20	565-2289-2-ND	125	72.00	EMVH100GDA222MLH0S
	2200	MH0	0.10	1.5	1200	18.0	16.5	565-2290-1-ND	9.78	16.10	37.38	565-2290-2-ND	125	86.25	EMVH100GDA222MMH0S
	3300	MH0	0.10	1.5	1200	18.0	16.5	565-2291-1-ND	9.78	16.10	37.38	565-2291-2-ND	125	86.25	EMVH100GDA332MMH0S
	4700	MN0	0.058	0.87	1550	18.0	21.5	565-2292-1-ND	11.26	18.55	43.06	565-2292-2-ND	75	59.63	EMVH100GDA472MMN0S
16	47	F60	1.6	24.0	69	6.3	5.7	565-2293-1-ND	.95	1.56	3.62	565-2293-2-ND	1,000	67.00	EMVH160ADA470MF60G
	470	KE0	0.14	2.1	750	12.5	13.5	565-2294-1-ND	5.40	8.89	20.65	565-2294-2-ND	200	76.20	EMVH160ARA471MKE0S
	680	KE0	0.14	2.1	750	12.5	13.5	565-2295-1-ND	5.62	9.25	21.48	565-2295-2-ND	200	79.40	EMVH160ARA681MKE0S
	680	LH0	0.10	1.5	1000	16.0	16.5	565-2296-1-ND	8.29	13.65	31.69	565-2296-2-ND	125	73.13	EMVH160GDA681MLH0S
	1000	MH0	0.10	1.5	1200	18.0	16.5	565-2297-1-ND	9.78	16.10	37.38	565-2297-2-ND	125	86.25	EMVH160GDA102MMH0S
	2200	MH0	0.10	1.5	1200	18.0	16.5	565-2298-1-ND	9.78	16.10	37.38	565-2298-2-ND	125	86.25	EMVH160GDA222MMH0S
25	33	F60	1.6	24.0	69	6.3	5.7	565-2299-1-ND	.95	1.56	3.62	565-2299-2-ND	1,000	67.00	EMVH250ADA330MF60G
	47	F80	0.90	14.0	110	6.3	7.7	565-2300-1-ND	1.38	2.28	5.28	565-2300-2-ND	900	88.20	EMVH250ADA470MF80G
	47	H63	0.90	14.0	110	8.0	6.3	565-2301-1-ND	1.17	1.92	4.46	565-2301-2-ND	1,000	82.00	EMVH250ADA470MH63G
	100	HA0	0.40	6.0	220	8.0	10.0	565-2302-1-ND	1.83	3.02	7.01	565-2302-2-ND	500	64.50	EMVH250ADA101MHA0G
	220	JA0	0.30	4.5	296	10.0	10.0	565-2303-1-ND	3.09	5.09	11.81	565-2303-2-ND	500	109.00	EMVH250ADA221MJA0G
	330	KE0	0.14	2.1	750	12.5	13.5	565-2304-1-ND	5.54	9.13	21.20	565-2304-2-ND	200	78.20	EMVH250ARA331MKE0S
	470	KE0	0.14	2.1	750	12.5	13.5	565-2305-1-ND	5.62	9.25	21.48	565-2305-2-ND	200	79.40	EMVH250ARA471MKE0S
	470	LH0	0.10	1.5	1000	16.0	16.5	565-2306-1-ND	8.29	13.65	31.69	565-2306-2-ND	125	73.13	EMVH250GDA471MLH0S
	680	LH0	0.10	1.5	1000	16.0	16.5	565-2307-1-ND	8.29	13.65	31.69	565-2307-2-ND	125	73.13	EMVH250GDA681MLH0S
	680	MH0	0.10	1.5	1200	18.0	16.5	565-2308-1-ND	9.70	15.98	37.10	565-2308-2-ND	125	85.63	EMVH250GDA681MMH0S
	1000	MN0	0.058	0.87	1550	18.0	21.5	565-2309-1-ND	10.41	17.15	39.81	565-2309-2-ND	75	55.13	EMVH250GDA102MMN0S
35	10	F60	1.6	24.0	69	6.3	5.7	565-2310-1-ND	.87	1.44	3.34	565-2310-2-ND	1,000	62.00	EMVH350ADA100MF60G
	22	F60	1.6	24.0	69	6.3	5.7	565-2311-1-ND	.89	1.47	3.41	565-2311-2-ND	1,000	63.00	EMVH350ADA220MF60G
	33	F80	0.90	14.0	110	6.3	7.7	565-2312-1-ND	.97	1.60	3.71	565-2312-2-ND	900	61.20	EMVH350ADA330MF80G
	33	H63	0.90	14.0	110	8.0	6.3	565-2313-1-ND	1.18	1.94	4.50	565-2313-2-ND	1,000	83.00	EMVH350ADA330MH63G
	47	HA0	0.40	6.0	220	8.0	10.0	565-2314-1-ND	1.70	2.80	6.50	565-2314-2-ND	500	60.00	EMVH350ADA470MHA0G
	100	JA0	0.30	4.5	296	10.0	10.0	565-2315-1-ND	3.12	5.14	11.93	565-2315-2-ND	500	110.00	EMVH350ADA101MJA0G
	330	KE0	0.14	2.1	750	12.5	13.5	565-2316-1-ND	5.53	9.10	21.13	565-2316-2-ND	200	78.00	EMVH350ARA331MKE0S
	330	LH0	0.10	1.5	1000	16.0	16.5	565-2317-1-ND	5.62	9.25	21.48	565-2317-2-ND	125	49.63	EMVH350GDA331MLH0S
	470	KG5	0.11	1.5	900	12.5	16.0	565-2318-1-ND	6.02	9.91	23.01	565-2318-2-ND	150	63.75	EMVH350ARA471MKG5S
	470	LH0	0.10	1.5	1000	16.0	16.5	565-2319-1-ND	8.43	13.88	32.22	565-2319-2-ND	125	74.38	EMVH350GDA471MLH0S
	680	MH0	0.10	1.5	1200	18.0	16.5	565-2320-1-ND	9.78	16.10	37.38	565-2320-2-ND	125	86.25	EMVH350GDA681MMH0S
50	10	F60	2.8	42.0	51	6.3	5.7	565-2321-1-ND	.86	1.41	3.27	565-2321-2-ND	1,000	60.00	EMVH500ADA100MF60G
	22	F80	2.0	30.0	83	6.3	7.7	565-2322-1-ND	.97	1.60	3.71	565-2322-2-ND	900	61.20	EMVH500ADA220MF80G
	22	H63	1.6	30.0	83	8.0	6.3	565-2323-1-ND	1.09	1.79	4.16	565-2323-2-ND	1,000	77.00	EMVH500ADA220MH63G
	33	HA0	0.70	11.0	160	8.0	10.0	565-2324-1-ND	1.73	2.85	6.61	565-2324-2-ND	500	61.00	EMVH500ADA330MHA0G

(Continued)

Alchip™ MVH Series Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Rated W.V. (VDC)	Cap. (µF)	Size Code	Maximum ESR (Ω) @ 100KHz		Rated Ripple Current (mA RMS) 100KHz	Dimensions (mm)		Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel		United Chemi-Con Part No.
			20°C	-40°C		D	L		5	10	25		Size	Pricing	
50	47	JA0	0.50	7.5	247	10.0	10.0	565-2325-1-ND	2.60	4.28	9.94	565-2325-2-ND	500	92.00	EMVH500ADA470MJA0G
	100	KE0	0.23	3.5	550	12.5	13.5	565-2326-1-ND	5.18	8.53	19.81	565-2326-2-ND	200	73.20	EMVH500ARA101MKE0S
	220	KE0	0.23	3.5	550	12.5	13.5	565-2327-1-ND	5.32	8.77	20.36	565-2327-2-ND	200	75.20	EMVH500ARA221MKE0S
	220	LH0	0.15	2.3	850	16.0	16.5	565-2328-1-ND	8.86	14.60	33.89	565-2328-2-ND	125	78.25	EMVH500GDA221MLH0S
	330	KG5	0.18	2.7	700	12.5	16.0	565-2329-1-ND	6.28	10.34	23.99	565-2329-2-ND	150	66.45	EMVH500ARA331MKG5S
	330	LH0	0.15	2.3	850	16.0	16.5	565-2330-1-ND	6.28	10.34	23.99	565-2330-2-ND	125	55.38	EMVH500GDA331MLH0S
	470	MH0	0.15	2.3	920	18.0	16.5	565-2331-1-ND	8.93	14.70	34.13	565-2331-2-ND	125	78.75	EMVH500GDA471MMH0S
63	10	F80	2.0	100	60	6.3	7.7	565-2332-1-ND	.94	1.54	3.58	565-2332-2-ND	900	59.40	EMVH630ADA100MF80G
	10	H63	2.0	110	60	8.0	6.3	565-2333-1-ND	1.00	1.64	3.81	565-2333-2-ND	1,000	70.00	EMVH630ADA100MH63G
	22	HA0	0.70	35.0	100	8.0	10.0	565-2334-1-ND	1.47	2.42	5.61	565-2334-2-ND	500	52.00	EMVH630ADA220MHA0G
	33	JA0	0.50	25.0	170	10.0	10.0	565-2335-1-ND	3.12	5.14	11.93	565-2335-2-ND	500	110.00	EMVH630ADA330MJA0G
	100	KE0	0.25	12.5	500	12.5	13.5	565-2336-1-ND	4.82	7.93	18.41	565-2336-2-ND	200	68.00	EMVH630ARA101MKE0S
	220	KG5	0.20	10.0	600	12.5	16.0	565-2337-1-ND	5.91	9.73	22.60	565-2337-2-ND	150	62.55	EMVH630ARA221MKG5S
	330	LH0	0.18	9.0	820	16.0	16.5	565-2338-1-ND	6.80	11.20	26.00	565-2338-2-ND	125	60.00	EMVH630GDA331MLH0S
	470	LN0	0.11	5.5	1100	16.0	21.5	565-2339-1-ND	6.80	11.20	26.00	565-2339-2-ND	75	36.00	EMVH630GDA471MLN0S
100	10	HA0	0.75	50.0	70	8.0	10.0	565-2340-1-ND	1.45	2.39	5.55	565-2340-2-ND	500	51.00	EMVH101ADA100MHA0G
	22	JA0	0.55	35.0	115	10.0	10.0	565-2341-1-ND	3.09	5.09	11.81	565-2341-2-ND	500	109.00	EMVH101ADA220MJA0G
	47	KE0	0.33	16.5	450	12.5	13.5	565-2342-1-ND	5.31	8.75	20.31	565-2342-2-ND	200	75.00	EMVH101ARA470MKE0S
	68	KG5	0.26	13.0	550	12.5	16.0	565-2343-1-ND	5.98	9.85	22.87	565-2343-2-ND	150	63.30	EMVH101ARA680MKG5S
	100	LH0	0.24	12.0	650	16.0	16.5	565-2344-1-ND	8.17	13.46	31.24	565-2344-2-ND	125	72.13	EMVH101GDA101MLH0S
	220	MN0	0.16	8.0	950	18.0	21.5	565-2345-1-ND	11.05	18.21	42.26	565-2345-2-ND	75	58.50	EMVH101GDA221MMN0S

Alchip™ MVK Series Aluminum Electrolytic Capacitors (SMT)

General Purpose Low Profile 105°C

RoHS COMPLIANT

Features: General Purpose, Low Profile, Solvent Proof, 105°C Maximum Temperature (1000 ~ 2000 Hour Life) **Specifications: • Operating Temperature Range:** -40°C ~ 105°C **• Capacitance Tolerance:** ±20% **• Leakage Current @ 20°C after 2 Minutes:** I=0.01CV or 3µA, whichever is greater

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D55	4.0	5.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
D60	4.0	5.7	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E55	5.0	5.2	5.3	5.3	5.9	0.5 ~ 0.8	1.4
E60	5.0	5.7	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H63	8.0	6.3	8.3	8.3	9.0	0.5 ~ 0.8	2.3
HA0	8.0	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10.0	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5

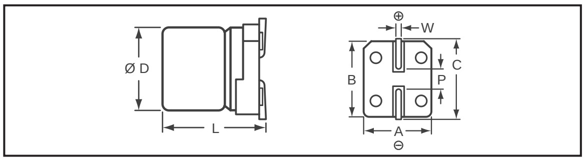

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions (mm)		Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel		United Chemi-Con Part No.
					D	L		5	10	25		Size	Pricing	
6.3	22	D55	0.30	21	4.0	5.2	565-2346-1-ND	.58	.96	2.22	565-2346-2-ND	2,000	41.00/M	EMVK6R3ADA220MD55G
	47	E55	0.30	36	5.0	5.2	565-2347-1-ND	.81	1.33	3.09	565-2347-2-ND	1,000	57.00	EMVK6R3ADA470ME55G
	100	F55	0.30	56	6.3	5.2	565-2348-1-ND	.85	1.40	3.25	565-2348-2-ND	1,000	60.00	EMVK6R3ADA101MF55G
	330	HA0	0.40	290	8.0	10.0	565-2349-1-ND	1.59	2.63	6.09	565-2349-2-ND	500	56.50	EMVK6R3ADA331MHA0G
	1000	JA0	0.40	410	10.0	10.0	565-2350-1-ND	2.34	3.85	8.94	565-2350-2-ND	500	82.50	EMVK6R3ADA102MJA0G
10	33	E55	0.24	34	5.0	5.2	565-2351-1-ND	.81	1.33	3.09	565-2351-2-ND	1,000	57.00	EMVK100ADA330ME55G
	100	H63	0.30	90	8.0	6.3	565-2352-1-ND	1.00	1.65	3.82	565-2352-2-ND	1,000	71.00	EMVK100ADA101MH63G
	220	HA0	0.30	180	8.0	10.0	565-2353-1-ND	1.59	2.63	6.09	565-2353-2-ND	500	56.50	EMVK100ADA221MHA0G
16	10	D55	0.20	16	4.0	5.2	565-2354-1-ND	.62	1.02	2.36	565-2354-2-ND	2,000	44.00/M	EMVK160ADA100MD55G
	22	E55	0.20	30	5.0	5.2	565-2355-1-ND	.81	1.33	3.09	565-2355-2-ND	1,000	57.00	EMVK160ADA220ME55G
	47	F55	0.20	48	6.3	5.2	565-2356-1-ND	.85	1.40	3.25	565-2356-2-ND	1,000	60.00	EMVK160ADA470MF55G
	470	JA0	0.26	460	10.0	10.0	565-2357-1-ND	2.34	3.85	8.94	565-2357-2-ND	500	82.50	EMVK160ADA471MJA0G
25	33	F55	0.16	45	6.3	5.2	565-2358-1-ND	.85	1.40	3.25	565-2358-2-ND	1,000	60.00	EMVK250ADA330MF55G
	47	H63	0.16	80	8.0	6.3	565-2359-1-ND	1.00	1.65	3.82	565-2359-2-ND	1,000	71.00	EMVK250ADA470MH63G
	100	HA0	0.16	180	8.0	10.0	565-2360-1-ND	1.59	2.63	6.09	565-2360-2-ND	500	56.50	EMVK250ADA101MHA0G
	330	JA0	0.16	450	10.0	10.0	565-2361-1-ND	2.34	3.85	8.94	565-2361-2-ND	500	82.50	EMVK250ADA331MJA0G
35	4.7	D55	0.14	15	4.0	5.2	565-2362-1-ND	.62	1.02	2.36	565-2362-2-ND	2,000	44.00/M	EMVK350ADA4R7MD55G
	10	E55	0.14	25	5.0	5.2	565-2363-1-ND	.81	1.33	3.09	565-2363-2-ND	1,000	57.00	EMVK350ADA100ME55G
	22	F55	0.14	40	6.3	5.2	565-2364-1-ND	.85	1.40	3.25	565-2364-2-ND	1,000	60.00	EMVK350ADA220MF55G
	33	H63	0.14	80	8.0	6.3	565-2365-1-ND	1.00	1.65	3.82	565-2365-2-ND	1,000	71.00	EMVK350ADA330MH63G
	220	JA0	0.14	375	10.0	10.0	565-2366-1-ND	2.34	3.85	8.94	565-2366-2-ND	500	82.50	EMVK350ADA221MJA0G
50	0.10	D55	0.12	1.3	4.0	5.2	565-2367-1-ND	.62	1.02	2.36	565-2367-2-ND	2,000	44.00/M	EMVK500ADAR10MD55G
	0.22	D55	0.12	2.6	4.0	5.2	565-2368-1-ND	.85	1.40	3.25	565-2368-2-ND	2,000	60.00/M	EMVK500ADAR22MD55G
	0.33	D55	0.12	3.2	4.0	5.2	565-2369-1-ND	.85	1.40	3.25	565-2369-2-ND	2,000	60.00/M	EMVK500ADAR33MD55G
	0.47	D55	0.12	3.8	4.0	5.2	565-2370-1-ND	.62	1.02	2.36	565-2370-2-ND	2,000	44.00/M	EMVK500ADAR47MD55G
	1.0	D55	0.12	5.6	4.0	5.2	565-2371-1-ND	.62	1.02	2.36	565-2371-2-ND	2,000	44.00/M	EMVK500ADA1R0MD55G
	2.2	D55	0.12	10	4.0	5.2	565-2372-1-ND	.62	1.02	2.36	565-2372-2-ND	2,000	44.00/M	EMVK500ADA2R2MD55G
	3.3	D55	0.12	14	4.0	5.2	565-2373-1-ND	.62	1.02	2.36	565-2373-2-ND	2,000	44.00/M	EMVK500ADA3R3MD55G
	4.7	E55	0.12	19	5.0	5.2	565-2374-1-ND	1.06	1.75	4.06	565-2374-2-ND	1,000	75.00	EMVK500ADA4R7ME55G
	10	F55	0.12	29	6.3	5.2	565-2375-1-ND	.85	1.40	3.25	565-2375-2-ND	1,000	60.00	EMVK500ADA100MF55G
	22	H63	0.12	70	8.0	6.3	565-2376-1-ND	1.00	1.65	3.82	565-2376-2-ND	1,000	71.00	EMVK500ADA220MH63G
	33	HA0	0.12	140	8.0	10.0	565-2377-1-ND	1.46	2.40	5.57	565-2377-2-ND	500	51.50	EMVK500ADA330MHA0G
	47	HA0	0.12	170	8.0	10.0	565-2378-1-ND	1.59	2.63	6.09	565-2378-2-ND	500	56.50	EMVK500ADA470MHA0G
	100	JA0	0.12	310	10.0	10.0	565-2379-1-ND	2.34	3.85	8.94	565-2379-2-ND	500	82.50	EMVK500ADA101MJA0G
Bi-Polar Series														
6.3	10	D60	0.35	14	4.0	5.7	565-2404-1-ND	.97	1.59	3.69	565-2404-2-ND	2,000	68.00/M	BMVK6R3ADA100MD60G
	22	E60	0.35	25	5.0	5.7	565-2405-1-ND	.85	1.40	3.25	565-2405-2-ND	1,000	60.00	BMVK6R3ADA220ME60G
	47	F60	0.35	39	6.3	5.7	565-2406-1-ND	1.28	2.10	4.88	565-2406-2-ND	1,000	90.00	BMVK6R3ADA470MF60G
10	6.8	D60	0.26	13	4.0	5.7	565-2380-1-ND	.96	1.58	3.66	565-2380-2-ND	2,000	68.00/M	BMVK100ADA6R8MD60G
	15	E60	0.26	22	5.0	5.7	565-2381-1-ND	.85	1.40	3.25	565-2381-2-ND	1,000	60.00	BMVK100ADA150ME60G
	33	F60	0.26	35	6.3	5.7	565-2382-1-ND	1.28	2.10	4.88	565-2382-2-ND	1,000	90.00	BMVK100ADA330MF60G
16	4.7	D60	0.24	12	4.0	5.7	565-2383-1-ND	.96	1.58	3.66	565-2383-2-ND	2,000	68.00/M	BMVK160ADA4R7MD60G
	10	E60	0.24	20	5.0	5.7	565-2384-1-ND	.85	1.40	3.25	565-2384-2-ND	1,000	60.00	BMVK160ADA100ME60G
	22	F60	0.24	32	6.3	5.7	565-2385-1-ND	1.28	2.10	4.88	565-2385-2-ND	1,000	90.00	BMVK160ADA220MF60G
25	3.3	D60	0.20	10	4.0	5.7	565-2386-1-ND	.96	1.58	3.67	565-2386-2-ND	2,000	68.00/M	BMVK250ADA3R3MD60G
	6.8	E60	0.20	17	5.0	5.7	565-2387-1-ND	.85	1.40	3.25	565-2387-2-ND	1,000	60.00	BMVK250ADA6R8ME60G
	15	F60	0.20	28	6.3	5.7	565-2388-1-ND	1.28	2.11	4.89	565-2388-2-ND	1,000	90.00	BMVK250ADA150MF60G
35	2.2	D60	0.18	8.8	4.0	5.7	565-2389-1-ND	2.76	4.55	10.56	565-2389-2-ND	2,000	195.00/M	BMVK350ADA2R2MD60G
	4.7	E60	0.18	15	5.0	5.7	565-2390-1-ND	.85	1.40	3.25	565-2390-2-ND	1,000	60.00	BMVK350ADA4R7ME60G
	10	F60	0.18	23	6.3	5.7	565-2391-1-ND	1.28	2.10	4.88	565-2391-2-ND	1,000	90.00	BMVK350ADA100MF60G
50	0.10	D60	0.18	1.3	4.0	5.7	565-2392-1-ND	.97	1.59	3.69	565-2392-2-ND	2,000	68.00/M	BMVK500ADAR10MD60G
	0.15	D60	0.18	1.9	4.0	5.7	565-2393-1-ND	.96	1.58	3.66	565-2393-2-ND	2,000	68.00/M	BMVK500ADAR15MD60G
	0.22	D60	0.18	2.3	4.0	5.7	565-2394-1-ND	.97	1.59	3.69	565-2394-2-ND	2,000	68.00/M	BMVK500ADAR22MD60G
	0.33	D60	0.18	2.8	4.0	5.7	565-2395-1-ND	.97	1.60	3.71	565-2395-2-ND	2,000	68.00/M	BMVK500ADAR33MD60G
	0.47	D60	0.18	3.4	4.0	5.7	565-2396-1-ND	.97	1.59	3.69	565-2396-2-ND	2,000	68.00/M	BMVK500ADAR47MD60G
	0.68	D60	0.18	4.1	4.0	5.7	565-2397-1-ND	.96	1.58	3.66	565-2397-2-ND	2,000	68.00/M	BMVK500ADAR68MD60G
	1.0	D60	0.18	5.5	4.0	5.7	565-2398-1-ND	.97	1.59	3.69	565-2398-2-ND	2,000	68.00/M	BMVK500ADA1R0MD60G
	1.5	D60	0.18	7.5	4.0	5.7	565-2399-1-ND	.96	1.58	3.66	565-2399-2-ND	2,000	68.00/M	BMVK500ADA1R5MD60G
	2.2	E60	0.18	10	5.0	5.7	565-2400-1-ND	.85	1.40	3.25	565-2400-2-ND	1,000	60.00	BMVK500ADA2R2ME60G
	3.3	E60	0.18	13	5.0	5.7	565-2401-1-ND	.85	1.40	3.25	565-2401-2-ND	1,000	60.00	BMVK500ADA3R3ME60G
	4.7	F60	0.18	16	6.3	5.7	565-2402-1-ND	1.28	2.10	4.88	565-2402-2-ND	1,000	90.00	BMVK500ADA4R7MF60G
	6.8	F60	0.18	20	6.3	5.7	565-2403-1-ND	1.28	2.10	4.88	565-2403-2-ND	1,000	90.00	BMVK500ADA6R8MF60G

Alchip™ MVY Series Aluminum Electrolytic Capacitors (SMT)

General Purpose 105°C

Features: Low Impedance, Solvent Proof (6.3-63V), 105°C Maximum Temperature (1000 ~ 5000 Hour Life)
Specifications: • **Operating Temperature Range:** -55°C ~ 105°C (6.3-63V),-40°C ~ 105°C (100V) • **Capacitance Tolerance:** ±20% • **Leakage Current:** @ 20°C after 2 minutes: I=0.01CV or 3μA, whichever is greater

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D55	4	5.2	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E55	5	5.2	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5
KE0	12.5	13.5	13.0	13.0	13.7	1.0 ~ 1.3	4.2
KG5	12.5	16.0	13.0	13.0	13.7	1.0 ~ 1.3	4.2
LH0	16	16.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
LN0	16	21.5	17.0	17.0	18.0	1.0 ~ 1.3	6.5
MH0	18	16.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5
MN0	18	21.5	19.0	19.0	20.0	1.0 ~ 1.3	6.5

Terminal Code: A
Size Code: D55 ~ KG5

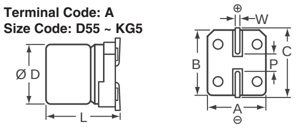

Terminal Code: G
Size Code: LH0 ~ MN0

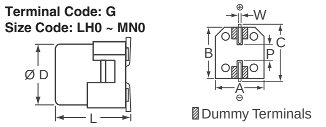

Dissipation Factor @ 20°C 120 Hz:

Rated Voltage (Vdc)		6.3V	10V	16V	25V	35V	50V	63V	100V
tan δ (Max.)	D55 to F80	0.24	0.20	0.16	0.14	0.12	0.12	—	—
	HA0 to JA0	0.28	0.24	0.20	0.16	0.14	0.12	—	—
	KE0 to MN0	0.26	0.22	0.18	0.16	0.14	0.12	0.14	0.10

When nominal capacitance exceeds 1,000μF, add 0.02 to the value above for each 1,000μF increase.

Rated W.V. (VDC)	Cap. (μF)	Size Code	Max. Impedance (Ω) @ 100KHz 20°C	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions (mm) D	L	Digi-Key Part No.	Pricing 5	10	25	Digi-Key Part No.	Tape & Reel Size	Pricing	United Chemi-Con Part No.
6.3	22	D55	3.0	60	4.0	5.2	565-2407-1-ND	.64	1.05	2.44	565-2407-2-ND	2,000	45.00/M	EMVY6R3ADA220MD55G
	33	E55	1.8	95	5.0	5.2	565-2408-1-ND	.85	1.40	3.25	565-2408-2-ND	1,000	60.00	EMVY6R3ADA330ME55G
	47	E55	1.8	95	5.0	5.2	565-2409-1-ND	.85	1.40	3.25	565-2409-2-ND	1,000	60.00	EMVY6R3ADA470ME55G
	100	F55	1.0	140	6.3	5.2	565-2410-1-ND	.85	1.40	3.25	565-2410-2-ND	1,000	60.00	EMVY6R3ADA101MF55G
	220	F55	1.0	140	6.3	5.2	565-2411-1-ND	.85	1.40	3.25	565-2411-2-ND	1,000	60.00	EMVY6R3ADA221MF55G
	330	F80	0.34	280	6.3	7.7	565-2412-1-ND	1.06	1.75	4.06	565-2412-2-ND	900	67.50	EMVY6R3ADA331MF80G
	470	HA0	0.30	450	8.0	10.0	565-2413-1-ND	1.65	2.72	6.32	565-2413-2-ND	500	58.50	EMVY6R3ADA471MHA0G
	680	HA0	0.30	450	8.0	10.0	565-2414-1-ND	1.74	2.87	6.66	565-2414-2-ND	500	61.50	EMVY6R3ADA681MHA0G
	1000	HA0	0.30	450	8.0	10.0	565-2415-1-ND	1.70	2.80	6.50	565-2415-2-ND	500	60.00	EMVY6R3ADA102MHA0G
	1500	JA0	0.15	670	10.0	10.0	565-2416-1-ND	2.76	4.55	10.56	565-2416-2-ND	500	97.50	EMVY6R3ADA152MJA0G
	2200	KE0	0.070	820	12.5	13.5	565-2417-1-ND	5.43	8.95	20.78	565-2417-2-ND	200	76.80	EMVY6R3ARA222MKE0S
	2200	LH0	0.054	1260	16.0	16.5	565-2418-1-ND	7.84	12.92	29.98	565-2418-2-ND	125	69.25	EMVY6R3GDA222MLH0S
	3300	KG5	0.060	950	12.5	16.0	565-2419-1-ND	5.76	9.49	22.03	565-2419-2-ND	150	61.05	EMVY6R3ARA332MKG5S
	3300	MH0	0.054	1350	18.0	16.5	565-2420-1-ND	5.76	9.49	22.03	565-2420-2-ND	125	50.88	EMVY6R3GDA332MMH0S
	4700	LN0	0.038	1630	16.0	21.5	565-2421-1-ND	8.50	14.00	32.50	565-2421-2-ND	75	45.00	EMVY6R3GDA472MLN0S
	4700	MH0	0.054	1350	18.0	16.5	565-2422-1-ND	9.14	15.05	34.94	565-2422-2-ND	125	80.63	EMVY6R3GDA472MMH0S
	6800	LN0	0.038	1630	16.0	21.5	565-2423-1-ND	8.50	14.00	32.50	565-2423-2-ND	75	45.00	EMVY6R3GDA682MLN0S
	6800	MN0	0.038	1750	18.0	21.5	565-2424-1-ND	10.63	17.50	40.63	565-2424-2-ND	75	56.25	EMVY6R3GDA682MMN0S
	8200	MN0	0.038	1750	18.0	21.5	565-2425-1-ND	11.02	18.14	42.12	565-2425-2-ND	75	58.35	EMVY6R3GDA822MMN0S
10	22	E55	1.8	95	5.0	5.2	565-2426-1-ND	.85	1.40	3.25	565-2426-2-ND	1,000	60.00	EMVY100ADA220ME55G
	33	E55	1.8	95	5.0	5.2	565-2427-1-ND	.85	1.40	3.25	565-2427-2-ND	1,000	60.00	EMVY100ADA330ME55G
	47	F55	.0	140	6.3	5.2	565-2428-1-ND	.85	1.40	3.25	565-2428-2-ND	1,000	60.00	EMVY100ADA470MF55G
	100	F55	1.0	140	6.3	5.2	565-2429-1-ND	.90	1.48	3.43	565-2429-2-ND	1,000	63.00	EMVY100ADA101MF55G
	220	F80	0.34	280	6.3	7.7	565-2430-1-ND	1.06	1.75	4.06	565-2430-2-ND	900	67.50	EMVY100ADA221MF80G
	330	HA0	0.30	450	8.0	10.0	565-2431-1-ND	1.50	2.47	5.74	565-2431-2-ND	500	53.00	EMVY100ADA331MHA0G
	470	HA0	0.30	450	8.0	10.0	565-2432-1-ND	1.50	2.47	5.74	565-2432-2-ND	500	53.00	EMVY100ADA471MHA0G
	680	JA0	0.15	670	10.0	10.0	565-2433-1-ND	2.87	4.73	10.98	565-2433-2-ND	500	101.50	EMVY100ADA681MJA0G
	1000	JA0	0.15	670	10.0	10.0	565-2434-1-ND	2.76	4.55	10.56	565-2434-2-ND	500	97.50	EMVY100ADA102MJA0G
	2200	KG5	0.060	950	12.5	16.0	565-2435-1-ND	5.65	9.31	21.61	565-2435-2-ND	150	59.85	EMVY100ARA222MKG5S
	2200	LH0	0.054	1260	16.0	16.5	565-2436-1-ND	5.65	9.31	21.61	565-2436-2-ND	125	49.88	EMVY100ADA222MLH0S
	3300	MH0	0.054	1350	18.0	16.5	565-2437-1-ND	10.63	17.50	40.63	565-2437-2-ND	125	93.75	EMVY100GDA332MMH0S
	3300	LH0	0.054	1260	16.0	16.5	565-2438-1-ND	9.30	15.32	35.57	565-2438-2-ND	125	82.13	EMVY100GDA332MLH0S
	4700	LN0	0.038	1630	16.0	21.5	565-2439-1-ND	8.50	14.00	32.50	565-2439-2-ND	75	45.00	EMVY100GDA472MLN0S
	4700	MN0	0.38	1750	18.0	21.5	565-2440-1-ND	10.63	17.50	40.63	565-2440-2-ND	75	56.25	EMVY100GDA472MMN0S
	6800	MN0	0.038	1750	18.0	21.5	565-2441-1-ND	11.09	18.27	42.41	565-2441-2-ND	75	58.73	EMVY100GDA682MMN0S
16	10	D55	3.0	60	4.0	5.2	565-2442-1-ND	.66	1.09	2.54	565-2442-2-ND	2,000	47.00/M	EMVY160ADA100MD55G
	22	E55	1.8	95	5.0	5.2	565-2443-1-ND	.85	1.40	3.25	565-2443-2-ND	1,000	60.00	EMVY160ADA220ME55G
	33	F55	1.0	140	6.3	5.2	565-2444-1-ND	.94	1.54	3.59	565-2444-2-ND	1,000	66.00	EMVY160ADA330MF55G
	47	F55	1.0	140	6.3	5.2	565-2445-1-ND	.85	1.40	3.25	565-2445-2-ND	1,000	60.00	EMVY160ADA470MF55G
	100	F55	1.0	140	6.3	5.2	565-2446-1-ND	.85	1.40	3.25	565-2446-2-ND	1,000	60.00	EMVY160ADA101MF55G
	220	F80	0.34	280	6.3	7.7	565-2447-1-ND	1.06	1.75	4.06	565-2447-2-ND	900	67.50	EMVY160ADA221MF80G
	330	HA0	0.30	450	8.0	10.0	565-2448-1-ND	1.49	2.45	5.69	565-2448-2-ND	500	52.50	EMVY160ADA331MHA0G
	470	HA0	0.30	450	8.0	10.0	565-2449-1-ND	1.70	2.80	6.50	565-2449-2-ND	500	60.00	EMVY160ADA471MHA0G
	680	JA0	0.15	670	10.0	10.0	565-2450-1-ND	2.87	4.73	10.98	565-2450-2-ND	500	101.50	EMVY160ADA681MJA0G
	1000	KE0	0.070	820	12.5	13.5	565-2451-1-ND	5.29	8.71	20.23	565-2451-2-ND	200	74.60	EMVY160ARA102MKE0S
	1000	LH0	0.054	1260	16.0	16.5	565-2452-1-ND	8.50	14.00	32.50	565-2452-2-ND	125	75.00	EMVY160GDA102MLH0S
	2200	LH0	0.054	1260	16.0	16.5	565-2453-1-ND	7.84	12.92	29.98	565-2453-2-ND	125	69.25	EMVY160GDA222MLH0S
	2200	MH0	0.054	1350	18.0	16.5	565-2454-1-ND	9.14	15.05	34.94	565-2454-2-ND	125	80.63	EMVY160GDA222MMH0S
	3300	LN0	0.038	1630	16.0	21.5	565-2455-1-ND	8.86	14.60	33.89	565-2455-2-ND	75	46.95	EMVY160GDA332MLN0S
	3300	MH0	0.054	1350	18.0	16.5	565-2456-1-ND	9.14	15.05	34.94	565-2456-2-ND	125	80.63	EMVY160GDA332MMH0S
	4700	MN0	0.038	1750	18.0	21.5	565-2457-1-ND	10.87	17.91	41.57	565-2457-2-ND	75	57.53	EMVY160GDA472MMN0S
25	10	E55	1.8	95	5.0	5.2	565-2458-1-ND	.81	1.33	3.08	565-2458-2-ND	1,000	57.00	EMVY250ADA100ME55G
	22	F55	1.0	140	6.3	5.2	565-2459-1-ND	.85	1.40	3.25	565-2459-2-ND	1,000	60.00	EMVY250ADA220MF55G
	33	F55	1.0	140	6.3	5.2	565-2460-1-ND	.85	1.40	3.25	565-2460-2-ND	1,000	60.00	EMVY250ADA330MF55G
	47	F55	1.0	140	6.3	5.2	565-2461-1-ND	.85	1.40	3.25	565-2461-2-ND	1,000	60.00	EMVY250ADA470MF55G
	100	F80	0.34	280	6.3	7.7	565-2462-1-ND	1.06	1.75	4.06	565-2462-2-ND	900	67.50	EMVY250ADA101MF80G
	220	HA0	0.30	450	8.0	10.0	565-2463-1-ND	1.50	2.47	5.74	565-2463-2-ND	500	53.00	EMVY250ADA221MHA0G
	330	HA0	0.30	450	8.0	10.0	565-2464-1-ND	1.70	2.80	6.50	565-2464-2-ND	500	60.00	EMVY250ADA331MHA0G
	470	JA0	0.15	670	10.0	10.0	565-2465-1-ND	2.76	4.55	10.56	565-2465-2-ND	500	97.50	EMVY250ADA471MJA0G
	1000	LH0	0.054	1260	18.0	16.5	565-2466-5-ND	7.95	13.10	30.40	—	—	—	EMVY250GDA102MLH0S
	1000	MH0	0.054	1350	18.0	16.5	565-2467-1-ND	8.50	14.00	32.50	565-2467-2-ND	125	75.00	EMVY250GDA102MMH0S
	2200	LN0	0.038	1630	16.0	21.5	565-2468-1-ND	8.50	14.00	32.50	565-2468-2-ND	75	45.00	EMVY250GDA222MLN0S
	2200	MN0	0.038	1750	18.0	21.5	565-2469-1-ND	10.63	17.50	40.63	565-2469-2-ND	75	56.25	EMVY250GDA222MMN0S
	3300	MN0	0.038	1750	18.0	21.5	565-2470-1-ND	10.63	17.50	40.63	565-2470-2-ND	75	56.25	EMVY250GDA332MMN0S
35	4.7	D55	3.0	60	4.0	5.2	565-2471-1-ND	.66	1.09	2.54	565-2471-2-ND	2,000	47.00/M	EMVY350ADA4R7MD55G
	10	E55	1.8	95	5.0	5.2	565-2472-1-ND	.85	1.40	3.25	565-2472-2-ND	1,000	60.00	EMVY350ADA100ME55G
	22	F55	1.0	140	6.3	5.2	565-2473-1-ND	.85	1.40	3.25	565-2473-2-ND	1,000	60.00	EMVY350ADA220MF55G
	33	F55	1.0	140	6.3	5.2	565-2474-1-ND	.85	1.40	3.25	565-2474-2-ND	1,000	60.00	EMVY350ADA330MF55G
	47	F55	1.0	140	6.3	5.2	565-2475-1-ND	.85	1.40	3.25	565-2475-2-ND	1,000	60.00	EMVY350ADA470MF55G
	68	F80	0.34	280	6.3	7.7	565-2476-1-ND	1.06	1.75	4.06	565-2476-2-ND	900	67.50	EMVY350ADA680MF80G
	100	HA0	0.30	450	8.0	10.0	565-2477-1-ND	1.50	2.47	5.74	565-2477-2-ND	500	53.00	EMVY350ADA101MHA0G
	220	HA0	0.30	450	8.0	10.0	565-2478-1-ND	1.50	2.47	5.74	565-2478-2-ND	500	53.00	EMVY350ADA221MHA0G
	330	JA0	0.15	670	10.0	10.0	565-2479-1-ND	1.70	2.80	6.50	565-2479-2-ND	500	60.00	EMVY350ADA331MJA0G
	470	KE0	0.070	820	12.5	13.5	565-2480-1-ND	5.53	9.10	21.13	565-2480-2-ND	200	75.00	EMVY350ARA471MKE0S
	470	LH0	0.054	1260	16.0	16.5	565-2482-1-ND	7.81	12.86	29.85	565-2482-2-ND	125	68.88	EMVY350GDA471MLH0S
	1000	LH0	0.054	1260	16.0	16.5	565-2483-1-ND	8.93	14.70	34.13	565-2483-2-ND	125	78.75	EMVY350GDA102MMH0S
	1000	MH0	0.054	1350	18.0	16.5	565-2484-1-ND	8.10	13.34	30.96	565-2484-2-ND	125	71.50	EMVY350GDA102MMH0S
	2200	MN0	0.038	1750	18.0	21.5	565-2485-1-ND	10.63	17.50	40.63	565-2485-2-ND	75	56.25	EMVY350GDA222MMN0S
50	1.0	D55	5.0	30	4.0	5.2	565-2486-1-ND	.66	1.09	2.54	565-2486-2-ND	2,000	47.00/M	EMVY500ADA1R0MD55G
	2.2	D55	5.0	30	4.0	5.2	565-2487-1-ND	.74	1.23	2.84	565-2487-2-ND	2,000	53.00/M	EMVY500ADA2R2MD55G
	3.3	D55	5.0	30	4.0	5.2	565-2488-1-ND	.72	1.19	2.76	565-2488-2-ND	2,000	51.00/M	EMVY500ADA3R3MD55G
	4.7	E55	3.0	50	5.0	5.2	565-2489-1-ND	.85	1.40	3.25	565-2489-2-ND	1,000	60.00	EMVY500ADA4R7ME55G
	10	F55	2.0	70	6.3	5.2	565-2490-1-ND	.85	1.40	3.25	565-2490-2-ND	1,000	60.00	EMVY500ADA100MF55G

(Continued)

Rated W.V. (VDC)	Cap. (µF)	Size Code	Max. Impedance (Ω) @ 100KHz 20°C	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions (mm)		Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel		United Chemi-Con Part No.
					D	L		5	10	25		Size	Pricing	
50	22	F55	2.0	70	6.3	5.2	565-2491-1-ND	.85	1.40	3.25	565-2491-2-ND	1,000	60.00	EMVY500ADA220MF55G
	33	F80	0.60	170	6.3	7.7	565-2492-1-ND	1.06	1.75	4.06	565-2492-2-ND	900	67.50	EMVY500ADA330MF80G
	47	F80	0.60	170	6.3	7.7	565-2493-1-ND	1.06	1.75	4.06	565-2493-2-ND	900	67.50	EMVY500ADA470MF80G
	68	HA0	0.60	300	8.0	10.0	565-2494-1-ND	1.72	2.84	6.59	565-2494-2-ND	500	61.00	EMVY500ADA680MHA0G
	100	HA0	0.60	300	8.0	10.0	565-2495-1-ND	1.50	2.47	5.74	565-2495-2-ND	500	53.00	EMVY500ADA101MHA0G
	220	JA0	0.30	500	10.0	10.0	565-2496-1-ND	2.98	4.90	11.38	565-2496-2-ND	500	105.00	EMVY500ADA221MJA0G
	330	KE0	0.11	650	12.5	13.5	565-2497-1-ND	4.46	7.35	17.06	565-2497-2-ND	200	63.00	EMVY500ARA331MKE0S
	330	LH0	0.087	900	16.0	16.5	565-2498-1-ND	8.50	14.00	32.50	565-2498-2-ND	125	75.00	EMVY500GDA331MLH0S
	470	LH0	0.087	900	16.0	16.5	565-2499-1-ND	7.88	12.98	30.13	565-2499-2-ND	125	69.50	EMVY500GDA471MLH0S
	470	MH0	0.087	1060	18.0	16.5	565-2500-5-ND	8.94	14.72	34.17	—	—	—	EMVY500BTR471MMH0S
	1000	MN0	0.050	1520	18.0	21.5	565-2501-1-ND	10.40	17.12	39.75	565-2501-2-ND	75	55.05	EMVY500GDA102MMN0S
63	68	KE0	0.19	500	12.5	13.5	565-2502-1-ND	5.18	8.53	19.81	565-2502-2-ND	200	73.20	EMVY630ARA680MKE0S
	100	KE0	0.19	500	12.5	13.5	565-2503-1-ND	5.10	8.40	19.50	565-2503-2-ND	200	72.00	EMVY630ARA101MKE0S
	220	KE0	0.19	500	12.5	13.5	565-2504-1-ND	5.10	8.40	19.50	565-2504-2-ND	200	72.00	EMVY630ARA221MKE0S
	220	LH0	0.12	845	16.0	16.5	565-2505-1-ND	7.01	11.55	26.81	565-2505-2-ND	125	61.88	EMVY630GDA221MLH0S
	330	LH0	0.12	845	16.0	16.5	565-2506-1-ND	7.01	11.55	26.81	565-2506-2-ND	125	61.88	EMVY630GDA331MLH0S
	470	LN0	0.085	1100	16.0	21.5	565-2507-1-ND	8.17	13.46	31.24	565-2507-2-ND	75	43.28	EMVY630GDA471MLN0S
	470	MH0	0.12	905	18.0	16.5	565-2508-1-ND	8.50	14.00	32.50	565-2508-2-ND	125	75.00	EMVY630GDA471MMH0S
100	47	KE0	0.33	450	12.5	13.5	565-2509-1-ND	4.78	7.87	18.27	565-2509-2-ND	200	67.40	EMVY101ARA470MKE0S
	68	KE0	0.33	450	12.5	13.5	565-2510-1-ND	5.10	8.40	19.50	565-2510-2-ND	200	72.00	EMVY101ARA680MKE0S
	100	KE0	0.33	450	12.5	13.5	565-2511-1-ND	5.31	8.75	20.31	565-2511-2-ND	200	75.00	EMVY101ARA101MKE0S
	100	LH0	0.24	650	16.0	16.5	565-2512-1-ND	7.40	12.20	28.31	565-2512-2-ND	125	65.38	EMVY101GDA101MLH0S
	220	LN0	0.16	900	16.0	21.5	565-2513-1-ND	8.50	14.00	32.49	565-2513-2-ND	75	45.00	EMVY101GDA221MLN0S
	220	MH0	0.24	700	18.0	16.5	565-2514-1-ND	9.01	14.84	34.46	565-2514-2-ND	125	79.50	EMVY101GDA221MMH0S
	330	MN0	0.16	950	18.0	21.5	565-2515-1-ND	10.07	16.58	38.50	565-2515-2-ND	75	53.33	EMVY101GDA331MMN0S

Alchip™ MZA Series Aluminum Electrolytic Capacitors (SMT)

RoHS COMPLIANT

Very Low Impedance 105°C

Features: Very Low Impedance, Solvent Proof, 105°C Maximum Temperature (2000 Hour Life) **Specifications: • Operating Temperature Range:** -55°C ~ 105°C **• Capacitance Tolerance:** ±20% **• Leakage Current:** @ 20°C after 2 minutes: I=0.01CV or 3µA, whichever is greater

Case Dimensions:

Size Code	D	L	A	B	C	W	P
D61	4	5.8	4.3	4.3	5.1	0.5 ~ 0.8	1.0
E61	5	5.8	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F61	6.3	5.8	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F80	6.3	7.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
HA0	8	10.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 ~ 1.1	4.5

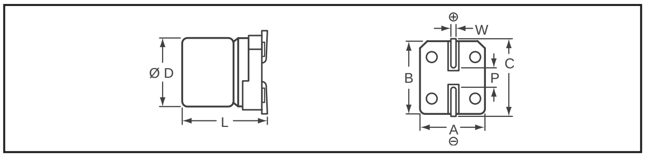

Rated W.V. (VDC)	Cap. (µF)	Size Code	Tan δ	Max. Impedance (Ω) @ 100KHz 20°C	Rated Ripple Current (mA RMS) @ 85°C 120Hz	Dimensions (mm)		Digi-Key Part No.	Pricing			Digi-Key Part No.	Tape & Reel		United Chemi-Con Part No.
						D	L		5	10	25		Size	Pricing	
6.3	22	D61	0.26	1.35	90	4.0	5.8	565-2516-1-ND	.85	1.40	3.25	565-2516-2-ND	2,000	60.00/M	EMZA6R3ADA220MD61G
	47	D61	0.26	1.35	90	4.0	5.8	565-2517-1-ND	.85	1.40	3.25	565-2517-2-ND	2,000	60.00/M	EMZA6R3ADA470MD61G
	47	E61	0.26	0.70	160	5.0	5.8	565-2518-1-ND	.87	1.43	3.32	565-2518-2-ND	1,000	61.00	EMZA6R3ADA470ME61G
	100	E61	0.26	0.70	160	5.0	5.8	565-2519-1-ND	.94	1.54	3.59	565-2519-2-ND	1,000	66.00	EMZA6R3ADA101ME61G
	100	F61	0.26	0.36	240	6.3	5.8	565-2520-1-ND	1.05	1.74	4.03	565-2520-2-ND	1,000	74.00	EMZA6R3ADA101MF61G
	220	F61	0.26	0.36	240	6.3	5.8	565-2521-1-ND	1.05	1.74	4.03	565-2521-2-ND	1,000	74.00	EMZA6R3ADA221MF61G
	330	F80	0.26	0.34	280	6.3	7.7	565-2522-1-ND	1.32	2.17	5.04	565-2522-2-ND	900	83.70	EMZA6R3ADA331MF80G
	470	HA0	0.26	0.16	600	8.0	10.0	565-2523-1-ND	2.04	3.37	7.82	565-2523-2-ND	500	72.00	EMZA6R3ADA471MHA0G
	1000	HA0	0.26	0.16	600	8.0	10.0	565-2524-1-ND	2.04	3.37	7.82	565-2524-2-ND	500	72.00	EMZA6R3ADA102MHA0G
	1500	JA0	0.26	0.08	850	10.0	10.0	565-2525-1-ND	3.32	5.47	12.70	565-2525-2-ND	500	117.00	EMZA6R3ADA152MJA0G
10	22	D61	0.19	1.35	90	4.0	5.8	565-2526-1-ND	.85	1.40	3.25	565-2526-2-ND	2,000	60.00/M	EMZA100ADA220MD61G
	33	D61	0.19	1.35	90	4.0	5.8	565-2527-1-ND	.85	1.40	3.25	565-2527-2-ND	2,000	60.00/M	EMZA100ADA330MD61G
	33	E61	0.19	0.70	160	5.0	5.8	565-2528-1-ND	.94	1.54	3.59	565-2528-2-ND	1,000	66.00	EMZA100ADA330ME61G
	220	F80	0.19	0.34	280	6.3	7.7	565-2529-1-ND	1.32	2.17	5.04	565-2529-2-ND	900	83.70	EMZA100ADA221MF80G
	330	HA0	0.19	0.16	600	8.0	10.0	565-2530-1-ND	2.04	3.37	7.82	565-2530-2-ND	500	72.00	EMZA100ADA331MHA0G
	470	HA0	0.19	0.16	600	8.0	10.0	565-2531-1-ND	2.04	3.37	7.82	565-2531-2-ND	500	72.00	EMZA100ADA471MHA0G
	680	HA0	0.19	0.16	600	8.0	10.0	565-2532-1-ND	2.04	3.37	7.82	565-2532-2-ND	500	72.00	EMZA100ADA681MHA0G
	1000	JA0	0.19	0.08	850	10.0	10.0	565-2533-1-ND	3.32	5.47	12.70	565-2533-2-ND	500	117.00	EMZA100ADA102MJA0G
16	10	D61	0.16	1.35	90	4.0	5.8	565-2534-1-ND	.85	1.40	3.25	565-2534-2-ND	2,000	60.00/M	EMZA160ADA100MD61G
	22	D61	0.16	1.35	90	4.0	5.8	565-2535-1-ND	.85	1.40	3.25	565-2535-2-ND	2,000	60.00/M	EMZA160ADA220MD61G
	22	E61	0.16	0.70	160	5.0	5.8	565-2536-1-ND	.94	1.54	3.59	565-2536-2-ND	1,000	66.00	EMZA160ADA220ME61G
	47	E61	0.16	0.70	160	5.0	5.8	565-2537-1-ND	.94	1.54	3.59	565-2537-2-ND	1,000	66.00	EMZA160ADA470ME61G
	47	F61	0.16	0.36	240	6.3	5.8	565-2538-1-ND	1.05	1.74	4.03	565-2538-2-ND	1,000	74.00	EMZA160ADA470MF61G
	100	F61	0.16	0.36	240	6.3	5.8	565-2539-1-ND	1.05	1.74	4.03	565-2539-2-ND	1,000	74.00	EMZA160ADA101MF61G
	220	F80	0.16	0.34	280	6.3	7.7	565-2540-1-ND	1.32	2.17	5.04	565-2540-2-ND	900	83.70	EMZA160ADA221MF80G
	330	HA0	0.16	0.16	600	8.0	10.0	565-2541-1-ND	2.04	3.37	7.82	565-2541-2-ND	500	72.00	EMZA160ADA331MHA0G
	470	HA0	0.16	0.16	600	8.0	10.0	565-2542-1-ND	2.04	3.37	7.82	565-2542-2-ND	500	72.00	EMZA160ADA471MHA0G
	680	JA0	0.16	0.08	850	10.0	10.0	565-2543-1-ND	3.08	5.08	11.78	565-2543-2-ND	500	109.00	EMZA160ADA681MJA0G
25	10	D61	0.14	1.35	90	4.0	5.8	565-2544-1-ND	.85	1.40	3.25	565-2544-2-ND	2,000	60.00/M	EMZA250ADA100MD61G
	22	E61	0.14	0.70	160	5.0	5.8	565-2545-1-ND	.94	1.54	3.59	565-2545-2-ND	1,000	66.00	EMZA250ADA220ME61G
	33	E61	0.14	0.70	160	5.0	5.8	565-2546-1-ND	.94	1.54	3.59	565-2546-2-ND	1,000	66.00	EMZA250ADA330ME61G
	33	F61	0.14	0.36	240	6.3	5.8	565-2547-1-ND	1.05	1.74	4.03	565-2547-2-ND	1,000	74.00	EMZA250ADA330MF61G
	47	F61	0.14	0.36	240	6.3	5.8	565-2548-1-ND	1.06	1.75	4.06	565-2548-2-ND	1,000	75.00	EMZA250ADA470MF61G
	100	F80	0.14	0.34	280	6.3	7.7	565-2549-1-ND	1.28	2.10	4.88	565-2549-2-ND	900	81.00	EMZA250ADA101MF80G
	220	HA0	0.14	0.16	600	8.0	10.0	565-2550-1-ND	2.04	3.37	7.82	565-2550-2-ND	500	72.00	EMZA250ADA221MHA0G
	330	HA0	0.14	0.16	600	8.0	10.0	565-2551-1-ND	2.04	3.37	7.82	565-2551-2-ND	500	72.00	EMZA250ADA331MHA0G
	470	JA0	0.14	0.08	850	10.0	10.0	565-2552-1-ND	3.32	5.47	12.70	565-2552-2-ND	500	117.00	EMZA250ADA471MJA0G
35	4.7	D61	0.12	1.35	90	4.0	5.8	565-2553-1-ND	.85	1.40	3.25	565-2553-2-ND	2,000	60.00/M	EMZA350ADA4R7MD61G
	10	D61	0.12	1.35	90	4.0	5.8	565-2554-1-ND	.85	1.40	3.25	565-2554-2-ND	2,000	60.00/M	EMZA350ADA100MD61G
	10	E61	0.12	0.70	160	5.0	5.8	565-2555-1-ND	.87	1.43	3.31	565-2555-2-ND	1,000	61.00	EMZA350ADA100ME61G
	22	E61	0.12	0.70	160	5.0	5.8	565-2556-1-ND	.87	1.43	3.31	565-2556-2-ND	1,000	61.00	EMZA350ADA220ME61G
	33	F61	0.12	0.36	240	6.3	5.8	565-2557-1-ND	1.05	1.74	4.03	565-2557-2-ND	1,000	74.00	EMZA350ADA330MF61G
	47	F61	0.12	0.36	240	6.3	5.8	565-2558-1-ND	.98	1.61	3.74	565-2558-2-ND	1,000	69.00	EMZA350ADA470MF61G
	100	F80	0.12	0.34	280	6.3	7.7	565-2559-1-ND	1.32	2.17	5.04	565-2559-2-ND	900	83.70	EMZA350ADA101MF80G
	100	HA0	0.12	0.16	600	8.0	10.0	565-2560-1-ND	2.04	3.37	7.82	565-2560-2-ND	500	72.00	EMZA350ADA101MHA0G
	220	HA0	0.12	0.16	600	8.0	10.0	565-2561-1-ND	1.91	3.15	7.31	565-2561-2-ND	500	67.50	EMZA350ADA221MHA0G
	330	JA0	0.12	0.08	850	10.0	10.0	565-2562-1-ND	3.32	5.47	12.70	565-2562-2-ND	500	117.00	EMZA350ADA331MJA0G
50	4.7	D61	0.10	2.90	60	4.0	5.8	565-2563-1-ND	.85	1.40	3.25	565-2563-2-ND	2,000	60.00/M	EMZA500ADA4R7MD61G
	10	E61	0.10	1.52	85	5.0	5.8	565-2564-1-ND	.94	1.54	3.59	565-2564-2-ND	1,000	66.00	EMZA500ADA100ME61G
	10	F61	0.10	0.88	165	6.3	5.8	565-2565-1-ND	.98	1.61	3.74	565-2565-2-ND	1,000	69.00	EMZA500ADA100MF61G
	22	F61	0.10	0.88	165	6.3	5.8	565-2566-1-ND	.85	1.40	3.25	565-2566-2-ND	1,000	60.00	EMZA500ADA220MF61G
	33	F80	0.10	0.68	195	6.3	7.7	565-2567-1-ND	1.32	2.17	5.04	565-2567-2-ND	900	83.70	EMZA500ADA330MF61G
	47	F80	0.10	0.68	195	6.3	7.7	565-2568-1-ND	1.32	2.17	5.04	565-2568-2-ND	900	83.70	EMZA500ADA470MF80G
	100	HA0	0.10	0.34	350	8.0	10.0	565-2569-1-ND	2.04	3.37	7.82	565-2569-2-ND	500	72.00	EMZA500ADA101MHA0G
	220	JA0	0.10	0.18	670	10.0	10.0	565-2570-1-ND	3.32	5.47	12.70	565-2570-2-ND	500	117.00	EMZA500ADA221MJA0G

NPCAP™ PS Series Polymer Aluminum Electrolytic Capacitors (Radial Lead)

Ultra - Low ESR 105°C

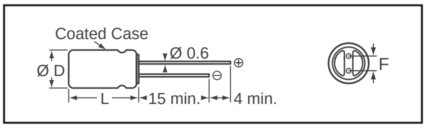

Features:
- Solid functional polymer aluminum • Ultra-low ESR • High temperature resistance • Solvent proof • 105°C maximum temperature.

Specifications:
- **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Dissipation Factor:** 0.12 maximum @ 20°C 120Hz • **Leakage Current:** I = 0.2CV maximum after 2 minutes @ 20°C.

Rated W. V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @ 105°C 100KHz	Maximum ESR Ω @ 100 to 300KHz 20°C	Dimensions (mm) ØD	L	F	Digi-Key Part No.	Price Each 1	10	100	United Chemi-Con Part No.
2.5	680	5230	10	8.0	11.5	3.5	565-3033-ND	.77	.58	.43	APS-2R5ELL681MHB5S
	1500	5500	8	10.0	12.5	5.0	565-3034-ND	1.12	.84	.63	APS-2R5ELL152MJC5S
4	560	5230	10	8.0	11.5	3.5	565-3035-ND	.73	.55	.40	APS-4R0ELL561MHB5S
	820	5500	8	10.0	12.5	5.0	565-3036-ND	1.04	.78	.59	APS-4R0ELL821MJC5S
6.3	390	4770	12	8.0	11.5	3.5	565-3037-ND	.73	.55	.40	APS-6R3ELL391MHB5S
	680	5500	10	10.0	12.5	5.0	565-3038-ND	1.09	.82	.62	APS-6R3ELL681MJC5S
10	270	4420	14	8.0	11.5	3.5	565-3039-ND	.77	.58	.43	APS-100ELL271MHB5S
	470	5300	12	10.0	12.5	5.0	565-3040-ND	1.09	.82	.62	APS-100ELL471MJC5S
16	180	4360	16	8.0	11.5	3.5	565-3041-ND	.75	.56	.41	APS-160ELL181MHB5S
	330	5050	14	10.0	12.5	5.0	565-3042-ND	1.09	.82	.62	APS-160ELL331MJC5S

NPCAP™ PSA Series Polymer Aluminum Electrolytic Capacitors (Radial Lead)

Super - Low ESR 105°C

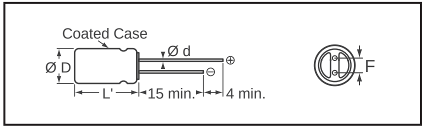

Features:
- Solid functional polymer aluminum • Super-low ESR (25-35% Lower than PS Series) • High temperature resistance • High ripple current capability • 105°C maximum temperature

Specifications:
- **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Dissipation Factor:** 0.08 maximum @ 20°C 120Hz
- **Leakage Current:** I = 0.2CV maximum after 2 minutes @ 20°C.

Rated W. V. (VDC)	Cap. (µF)	Rated Ripple Current (mA RMS) @ 105°C 100KHz	Maximum ESR Ω @ 100 to 300KHz 20°C	Dimensions (mm) ØD	L	F	Ød	Digi-Key Part No.	Price Each 1	10	100	United Chemi-Con Part No.
2.5	390	3160	20	6.3	10.5	2.5	0.5	565-3055-ND	.74	.55	.41	APSA2R5ELL391MFA5G
	680	5580	7	8.0	11.5	3.5	0.8	565-3056-ND	.77	.58	.43	APSA2R5ELL681MHB5S
	820	5580	7	8.0	11.5	3.5	0.8	565-3057-ND	.77	.58	.43	APSA2R5ELL821MHB5S
	1000	5860	6	10.0	11.5	5.0	0.8	565-3054-ND	1.09	.82	.62	APSA2R5ELL102MJB5S
4	270	3160	20	6.3	10.5	2.5	0.5	565-3058-ND	.74	.55	.41	APSA4R0ELL271MFA5G
	390	3300	24	6.3	10.5	2.5	0.5	565-3059-ND	.74	.55	.41	APSA4R0ELL391MFA5G
	560	5580	7	8.0	11.5	3.5	0.8	565-3060-ND	.77	.58	.43	APSA4R0ELL561MHB5S
	820	5860	6	10.0	11.5	5.0	0.8	565-3061-ND	1.08	.81	.61	APSA4R0ELL821MJB5S
6.3	220	3160	20	6.3	10.5	2.5	0.5	565-3062-ND	.74	.55	.41	APSA6R3ELL221MFA5G
	330	3190	28	6.3	10.5	2.5	0.5	565-3063-ND	.74	.55	.41	APSA6R3ELL331MFA5G
	390	5080	8	8.0	11.5	3.5	0.8	565-3064-ND	.77	.58	.43	APSA6R3ELL391MHB5S
	680	5860	7	10.0	11.5	5.0	0.8	565-3065-ND	1.09	.82	.62	APSA6R3ELL681MJB5S
10	47	2820	25	6.3	10.5	2.5	0.5	565-3051-ND	.74	.55	.41	APSA100ELL470MFA5G
	68	2820	25	6.3	10.5	2.5	0.5	565-3052-ND	.74	.55	.41	APSA100ELL680MFA5G
	100	2820	25	6.3	10.5	2.5	0.5	565-3047-ND	.74	.55	.41	APSA100ELL101MFA5G
	150	2820	25	6.3	10.5	2.5	0.5	565-3048-ND	.74	.55	.41	APSA100ELL151MFA5G
	270	4710	9	8.0	11.5	3.5	0.8	565-3049-ND	.77	.58	.43	APSA100ELL271MHB5S
	470	5650	8	10.0	11.5	5.0	0.8	565-3050-ND	1.09	.82	.62	APSA100ELL471MJB5S
16	100	2820	25	6.3	10.5	2.5	0.5	565-3053-ND	.74	.55	.41	APSA160ELL101MFA5G

NPCAP™ PXA Series Polymer Aluminum Electrolytic Capacitors (SMT)

Ultra - Low ESR 105°C

Features:
- Solid functional polymer aluminum • Ultra-low ESR • High temperature resistance • For Lead Free Soldering • 105°C Maximum temperature.

Specifications:
- **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Dissipation Factor:** 0.12 maximum @ 20°C 120Hz
- **Leakage Current:** I = 0.2CV maximum after 2 minutes @ 20°C.

Size Code	ØD	L	A	B	C	W	P
F55	6.3	5.2	6.6	6.6	7.2	0.5 ~ 0.8	1.9
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H70	8.0	6.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1
J80	10.0	7.7	10.3	10.3	11.0	0.7 ~ 1.1	4.5
HC0	8.0	12.0	8.3	8.3	9.0	0.7 ~ 1.1	3.1
JC0	10.0	12.2	10.3	10.3	11.0	0.7 ~ 1.1	4.5

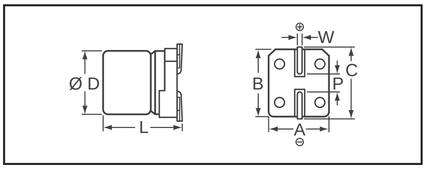

Rated W. V. (VDC)	Cap. (µF)	Size Code	Rated Ripple Current (mA RMS) @85°C 120Hz	Maximum ESR Ω @ 100KHz to 20°C	Dimensions (mm) ØD	L	Digi-Key Part No.	Cut Tape Pricing 5	10	25	Digi-Key Part No.	Tape & Reel Size	Pricing	United Chemi-Con Part No.
2.5	220	F55	2500	25	6.3	5.2	565-3087-1-ND	4.31	7.11	16.49	565-3087-2-ND	1,000	305.00	APXA2R5ARA221MF55G
	220	F60	2500	25	6.3	5.7	565-3088-1-ND	4.30	7.08	16.44	565-3088-2-ND	1,000	303.00	APXA2R5ARA221MF60G
	560	H70	3100	23	8.0	6.7	565-3089-1-ND	5.53	9.10	21.13	565-3089-2-ND	1,000	390.00	APXA2R5ARA561MH70G
	680	HC0	4770	12	8.0	12.0	565-3090-1-ND	8.71	14.35	33.31	565-3090-2-ND	400	246.00	APXA2R5ARA681MHC0G
	1000	J80	4240	19	10.0	7.7	565-3086-1-ND	7.86	12.95	30.06	565-3086-2-ND	500	277.50	APXA2R5ARA102MJ80G
4	100	F55	2450	26	6.3	5.2	565-3100-1-ND	4.31	7.11	16.49	565-3100-2-ND	1,000	305.00	APXA4R0ARA101MF55G
	100	F60	2450	26	6.3	5.7	565-3101-1-ND	4.30	7.08	16.44	565-3101-2-ND	1,000	303.00	APXA4R0ARA101MF60G
	150	F60	2450	26	6.3	5.7	565-3099-1-ND	4.29	7.07	16.41	565-3099-2-ND	1,000	303.00	APXA4R0ARA151MF60G
	220	H70	3020	25	8.0	6.7	565-3104-1-ND	5.57	9.17	21.29	565-3104-2-ND	1,000	393.00	APXA4R0ARA221MH70G
	330	H70	3020	25	8.0	6.7	565-3105-1-ND	5.57	9.17	21.29	565-3105-2-ND	1,000	393.00	APXA4R0ARA331MH70G
	470	J80	4130	20	10.0	7.7	565-3106-1-ND	7.86	12.95	30.06	565-3106-2-ND	500	277.50	APXA4R0ARA471MJ80G
	560	HC0	4770	12	8.0	12.0	565-3107-1-ND	8.71	14.35	33.31	565-3107-2-ND	400	246.00	APXA4R0ARA561MHC0G
	680	J80	4130	20	10.0	7.7	565-3108-1-ND	7.86	12.95	30.06	565-3108-2-ND	500	277.50	APXA4R0ARA681MJ80G
	820	JC0	5500	10	10.0	12.2	565-3109-1-ND	8.93	14.70	34.13	565-3109-2-ND	400	252.00	APXA4R0ARA821MJC0G
	1200	JC0	5500	10	10.0	12.2	565-3102-1-ND	8.93	14.70	34.13	565-3102-2-ND	400	252.00	APXA4R0ARA122MJC2G
6.3	68	F60	2400	27	6.3	5.7	565-3120-1-ND	4.29	7.07	16.41	565-3120-2-ND	1,000	303.00	APXA6R3ARA680MF60G
	82	F55	2400	27	6.3	5.2	565-3122-1-ND	4.31	7.11	16.49	565-3122-2-ND	1,000	305.00	APXA6R3ARA820MF55G
	82	F60	2400	27	6.3	5.7	565-3123-1-ND	4.29	7.07	16.41	565-3123-2-ND	1,000	303.00	APXA6R3ARA820MF60G
	100	F55	2400	27	6.3	5.2	565-3110-1-ND	4.31	7.11	16.49	565-3110-2-ND	1,000	305.00	APXA6R3ARA101MF55G

(Continued)

NPCAP™ PXA Series Polymer Aluminum Electrolytic Capacitors (SMT) *(Cont.)*

Ultra - Low ESR 105°C

Rated W. V. (VDC)	Cap. (µF)	Size Code	Rated Ripple Current (mA RMS) @85°C 120Hz	Maximum ESR Ω @ 100KHz to 20°C	Dimensions (mm)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		United Chemi-Con Part No.
					ØD	L		5	10	25		Size	Pricing	
6.3	100	F60	2400	27	6.3	5.7	565-3111-1-ND	4.04	6.65	15.44	565-3111-2-ND	1,000	285.00	APXA6R3ARA101MF60G
	120	F60	2400	27	6.3	5.7	565-3112-1-ND	4.04	6.65	15.44	565-3112-2-ND	1,000	285.00	APXA6R3ARA121MF60G
	150	H70	3020	25	8.0	6.7	565-3113-1-ND	5.53	9.10	21.13	565-3113-2-ND	1,000	390.00	APXA6R3ARA151MH70G
	220	H70	3020	25	8.0	6.7	565-3114-1-ND	5.53	9.10	21.13	565-3114-2-ND	1,000	390.00	APXA6R3ARA221MH70G
	330	J80	4130	20	10.0	7.7	565-3115-1-ND	7.86	12.95	30.06	565-3115-2-ND	500	277.50	APXA6R3ARA331MJ80G
	390	HC0	4770	12	8.0	12.0	565-3116-1-ND	8.71	14.35	33.31	565-3116-2-ND	400	246.00	APXA6R3ARA391MHC0G
	470	HC0	4770	12	8.0	12.0	565-3117-1-ND	8.71	14.35	33.31	565-3117-2-ND	400	246.00	APXA6R3ARA471MHC0G
	470	J80	4130	20	10.0	7.7	565-3118-1-ND	7.86	12.95	30.06	565-3118-2-ND	500	277.50	APXA6R3ARA471MJ80G
	680	JC0	5500	10	10.0	12.2	565-3119-1-ND	10.92	17.99	41.76	565-3119-2-ND	400	308.40	APXA6R3ARA681MJC0G
	820	JC0	5500	10	10.0	12.2	565-3121-1-ND	10.92	17.99	41.76	565-3121-2-ND	400	308.40	APXA6R3ARA821MJC0G
10	47	F60	2250	31	6.3	5.7	565-3073-1-ND	4.30	7.08	16.44	565-3073-2-ND	1,000	303.00	APXA100ARA470MF60G
	56	F55	2250	31	6.3	5.2	565-3075-1-ND	4.31	7.11	16.49	565-3075-2-ND	1,000	305.00	APXA100ARA560MF55G
	56	F60	2250	31	6.3	5.7	565-3076-1-ND	4.30	7.08	16.44	565-3076-2-ND	1,000	303.00	APXA100ARA560MF60G
	120	H70	2800	27	8.0	6.7	565-3066-1-ND	5.53	9.10	21.13	565-3066-2-ND	1,000	390.00	APXA100ARA121MH70G
	150	H70	2800	27	8.0	6.7	565-3067-1-ND	5.53	9.10	21.13	565-3067-2-ND	1,000	390.00	APXA100ARA151MH70G
	270	HC0	4420	14	8.0	12.0	565-3068-1-ND	8.71	14.35	33.31	565-3068-2-ND	400	246.00	APXA100ARA271MHC0G
	270	J80	3770	24	10.0	7.7	565-3069-1-ND	7.86	12.95	30.06	565-3069-2-ND	500	277.50	APXA100ARA271MJ80G
	330	HC0	4420	14	8.0	12.0	565-3070-1-ND	8.71	14.35	33.31	565-3070-2-ND	400	246.00	APXA100ARA331MHC0G
	330	J80	3770	24	10.0	7.7	565-3071-1-ND	7.86	12.95	30.06	565-3071-2-ND	500	277.50	APXA100ARA331MJ80G
	470	JC0	5300	12	10.0	12.2	565-3072-1-ND	11.90	19.60	45.50	565-3072-2-ND	400	336.00	APXA100ARA471MJC0G
	560	JC0	5300	12	10.0	12.2	565-3074-1-ND	8.93	14.70	34.13	565-3074-2-ND	400	252.00	APXA100ARA561MJC0G
16	33	F60	2050	37	6.3	5.7	565-3082-1-ND	4.29	7.07	16.41	565-3082-2-ND	1,000	303.00	APXA160ARA330MF60G
	39	F55	2050	37	6.3	5.2	565-3083-1-ND	4.31	7.11	16.49	565-3083-2-ND	1,000	305.00	APXA160ARA390MF55G
	39	F60	2050	37	6.3	5.7	565-3084-1-ND	4.30	7.08	16.44	565-3084-2-ND	1,000	303.00	APXA160ARA390MF60G
	82	H70	2700	30	8.0	6.7	565-3085-1-ND	5.53	9.10	21.13	565-3085-2-ND	1,000	390.00	APXA160ARA820MH70G
	150	J80	3430	26	10.0	7.7	565-3077-1-ND	7.86	12.95	30.06	565-3077-2-ND	500	277.50	APXA160ARA151MJ80G
	180	HC0	4360	16	8.0	12.0	565-3078-1-ND	8.71	14.35	33.31	565-3078-2-ND	400	246.00	APXA160ARA181MHC0G
	180	J80	3430	26	10.0	7.7	565-3079-1-ND	7.86	12.95	30.06	565-3079-2-ND	500	277.50	APXA160ARA181MJ80G
	220	JC0	5050	14	10.0	12.2	565-3080-1-ND	10.63	17.50	40.63	565-3080-2-ND	400	300.00	APXA160ARA221MJC0G
	330	JC0	5050	14	10.0	12.2	565-3081-1-ND	11.69	19.25	44.69	565-3081-2-ND	400	330.00	APXA160ARA331MJC0G

NPCAP™ PXC Series Polymer Aluminum Electrolytic Capacitors (SMT)

Super - Low ESR 105°C

Features:

- Solid functional polymer aluminum • Super-low ESR (20-30% Lower than PXA Series) • High temperature resistance • 105°C maximum temperature.

Specifications:

- **Operating Temperature Range:** -55°C ~ 105°C • **Capacitance Tolerance:** ±20% • **Dissipation Factor:** 0.12 maximum @ 20°C 120Hz • **Leakage Current:** I = 0.2CV maximum after 2 minutes @ 20°C.

Size Code	ØD	L	A	B	C	W	P
E60	5.0	5.7	5.3	5.3	5.9	0.5 ~ 0.8	1.4
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H70	8.0	6.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1

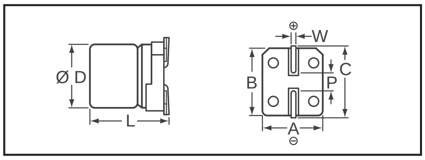

Rated W. V. (VDC)	Cap. (µF)	Size Code	Rated Ripple Current (mA RMS) @85°C	Maximum ESR Ω @20°C		Dimensions (mm)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		United Chemi-Con Part No.
				100KHz	300KHz	ØD	L		5	10	25		Size	Pricing	
2.5	180	E60	2000	30	22	5.0	5.7	565-3130-1-ND	4.26	7.01	16.27	565-3130-2-ND	1,000	300.00	APXC2R5ARA181ME60G
	270	F60	2700	20	18	6.3	5.7	565-3131-1-ND	4.64	7.65	17.75	565-3131-2-ND	1,000	328.00	APXC2R5ARA271MF60G
	470	H70	3420	17	16	8.0	6.7	565-3132-1-ND	5.96	9.81	22.77	565-3132-2-ND	1,000	420.00	APXC2R5ARA471MH70G
4	150	E60	2000	30	22	5.0	5.7	565-3133-1-ND	4.26	7.01	16.27	565-3133-2-ND	1,000	300.00	APXC4R0ARA151ME60G
	220	F60	2640	21	19	6.3	5.7	565-3134-1-ND	4.64	7.65	17.75	565-3134-2-ND	1,000	328.00	APXC4R0ARA221MF60G
	330	H70	3300	18	17	8.0	6.7	565-3135-1-ND	5.96	9.81	22.77	565-3135-2-ND	1,000	420.00	APXC4R0ARA331MH70G
6.3	100	E60	1780	35	26	5.0	5.7	565-3136-1-ND	4.26	7.01	16.27	565-3136-2-ND	1,000	300.00	APXC6R3ARA101ME60G
	180	F60	2580	22	19	6.3	5.7	565-3137-1-ND	4.64	7.65	17.75	565-3137-2-ND	1,000	328.00	APXC6R3ARA181MF60G
	220	H70	3300	18	17	8.0	6.7	565-3138-1-ND	5.96	9.81	22.77	565-3138-2-ND	1,000	420.00	APXC6R3ARA221MH70G
10	56	E60	1660	40	31	5.0	5.7	565-3125-1-ND	4.26	7.01	16.27	565-3125-2-ND	1,000	300.00	APXC100ARA560ME60G
	82	F60	2440	23	21	6.3	5.7	565-3126-1-ND	4.64	7.65	17.75	565-3126-2-ND	1,000	328.00	APXC100ARA820MF60G
	150	H70	3160	20	19	8.0	6.7	565-3124-1-ND	5.96	9.81	22.77	565-3124-2-ND	1,000	420.00	APXC100ARA151MH70G
16	27	E60	1570	45	35	5.0	5.7	565-3127-1-ND	4.26	7.01	16.27	565-3127-2-ND	1,000	300.00	APXC160ARA270ME60G
	39	F60	2300	25	23	6.3	5.7	565-3128-1-ND	4.64	7.65	17.75	565-3128-2-ND	1,000	328.00	APXC160ARA390MF60G
	82	H70	2830	25	23	8.0	6.7	565-3129-1-ND	5.96	9.81	22.77	565-3129-2-ND	1,000	420.00	APXC160ARA820MH70G

NPCAP™ PXH Series Polymer Aluminum Electrolytic Capacitors (SMT)

Super - Low ESR 125°C

Features:

- Solid functional polymer aluminum • Super-low ESR • High temperature resistance
- 125°C maximum temperature.

Specifications:

- **Operating Temperature Range:** -55°C ~ 125°C • **Capacitance Tolerance:** ±20% • **Dissipation Factor:** 0.12 maximum @ 20°C 120Hz.

Size Code	ØD	L	A	B	C	W	P
F60	6.3	5.7	6.6	6.6	7.2	0.5 ~ 0.8	1.9
H70	8.0	6.7	8.3	8.3	9.0	0.7 ~ 1.1	3.1
J80	10.0	7.7	10.3	10.3	11.0	0.7 ~ 1.1	4.5

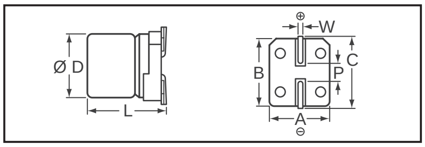

Rated W. V. (VDC)	Cap. (µF)	Size Code	Leakage Current µA max after 2 Minutes	Rated Ripple Current (mA RMS) 100KHz ~ 300KHz		Maximum ESR Ω @20°C 100KHz - 300KHz	Dimensions (mm)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		United Chemi-Con Part No.
				-55°C ~ 105°C	105°C ~ 125°C		ØD	L		5	10	25		Size	Pricing	
2.5	220	F60	110	2500	770	35	6.3	5.7	565-3148-1-ND	4.87	8.03	18.64	565-3148-2-ND	1,000	344.00	APXH2R5ARA221MF60G
	1000	J80	500	3700	1100	25	10.0	7.7	565-3147-1-ND	8.91	14.67	34.07	565-3147-2-ND	500	314.50	APXH2R5ARA102MJ80G
4	150	F60	120	2450	770	35	6.3	5.7	565-3152-1-ND	4.87	8.03	18.64	565-3152-2-ND	1,000	344.00	APXH4R0ARA151MF60G
	220	H70	176	3020	960	30	8.0	6.7	565-3153-1-ND	6.24	10.27	23.85	565-3153-2-ND	1,000	440.00	APXH4R0ARA221MH70G
	680	J80	544	3700	1100	25	10.0	7.7	565-3154-1-ND	8.91	14.67	34.07	565-3154-2-ND	500	314.50	APXH4R0ARA681MJ80G
6.3	82	F60	103	2400	720	40	6.3	5.7	565-3159-1-ND	4.87	8.03	18.64	565-3159-2-ND	1,000	344.00	APXH6R3ARA820MF60G
	100	F60	126	2400	720	40	6.3	5.7	565-3155-1-ND	4.87	8.03	18.64	565-3155-2-ND	1,000	344.00	APXH6R3ARA101MF60G
	150	H70	189	3020	960	30	8.0	6.7	565-3156-1-ND	6.24	10.27	23.85	565-3156-2-ND	1,000	440.00	APXH6R3ARA151MH70G
	220	H70	277	3020	960	30	8.0	6.7	565-3157-1-ND	6.24	10.27	23.85	565-3157-2-ND	1,000	440.00	APXH6R3ARA221MH70G
	470	J80	592	3700	1100	25	10.0	7.7	565-3158-1-ND	8.91	14.67	34.07	565-3158-2-ND	500	314.50	APXH6R3ARA471MJ80G
10	56	F60	112	2250	680	45	6.3	5.7	565-3143-1-ND	4.87	8.03	18.64	565-3143-2-ND	1,000	344.00	APXH100ARA560MF60G
	120	H70	240	2800	880	35	8.0	6.7	565-3139-1-ND	6.24	10.27	23.85	565-3139-2-ND	1,000	440.00	APXH100ARA121MH70G
	150	H70	300	2800	880	35	8.0	6.7	565-3140-1-ND	6.24	10.27	23.85	565-3140-2-ND	1,000	440.00	APXH100ARA151MH70G
	330	J80	660	3700	1010	30	10.0	7.7	565-3141-1-ND	8.91	14.67	34.07	565-3141-2-ND	500	314.50	APXH100ARA331MJ80G
16	39	F60	125	2050	650	50	6.3	5.7	565-3142-1-ND	4.87	8.03	18.64	565-3142-2-ND	1,000	344.00	APXH160ARA390MF60G
	82	H70	262	2700	830	40	8.0	6.7	565-3146-1-ND	6.24	10.27	23.85	565-3146-2-ND	1,000	440.00	APXH160ARA820MH70G
	150	J80	480	3020	930	35	10.0	7.7	565-3144-1-ND	8.91	14.67	34.07	565-3144-2-ND	500	314.50	APXH160ARA151MJ80G
	180	J80	576	3020	930	35	10.0	7.7	565-3145-1-ND	8.91	14.67	34.07	565-3145-2-ND	500	314.50	APXH160ARA181MJ80G
20	22	F60	88	1650	590	60	6.3	5.7	565-3149-1-ND	4.87	8.03	18.64	565-3149-2-ND	1,000	344.00	APXH200ARA220MF60G
	47	H70	188	2000	780	45	8.0	6.7	565-3150-1-ND	6.24	10.27	23.85	565-3150-2-ND	1,000	440.00	APXH200ARA470MH70G
	82	J80	328	2400	820	45	10.0	7.7	565-3151-1-ND	8.91	14.67	34.07	565-3151-2-ND	500	314.50	APXH200ARA820MJ80G

SMH Series Aluminum Electrolytic Capacitors (Snap-In)

General Purpose 85°C

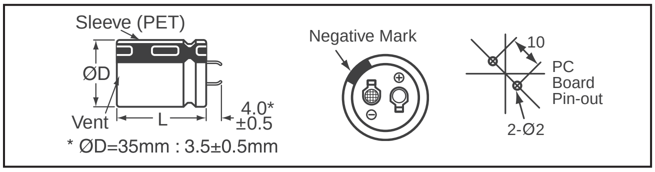

Features:

- General Purpose • High CV • High Ripple • 2,000 Hours @ 85°C

Specifications:

- Operating Temperature Range: -40°C ~ 85°C • Capacitance Tolerance: ±20% • Leakage Current @ 20°C: I=0.02CV or 3mA, whichever is smaller

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing 1	10	100	United Chemi-Con Part No.
6.3	15000	22x25	0.60	2.44	565-2571-ND	2.63	19.88	150.00	ESMH6R3VSN153MP25T
	22000	22x30	0.60	3.06	565-2572-ND	2.75	20.83	157.19	ESMH6R3VSN223MP30T
	22000	25.4x25	0.60	3.07	565-2573-ND	3.01	22.79	172.00	ESMH6R3VSN223MQ25T
	27000	22x35	0.60	3.49	565-2574-ND	2.97	22.52	169.94	ESMH6R3VSN273MP35T
	27000	25.4x30	0.60	3.52	565-2575-ND	3.12	23.59	178.00	ESMH6R3VSN273MQ30T
	33000	22x40	0.60	3.97	565-2576-ND	3.18	24.09	181.81	ESMH6R3VSN333MP40T
	33000	25.4x35	0.60	4.02	565-2577-ND	3.37	25.51	192.53	ESMH6R3VSN333MQ35T
	39000	22x50	0.60	4.55	565-2578-ND	3.46	26.19	197.69	ESMH6R3VSN393MP50T
	39000	25.4x40	0.60	4.50	565-2579-ND	3.46	26.22	197.86	ESMH6R3VSN393MQ40T
	47000	25.4x45	0.60	5.09	565-2580-ND	3.81	28.84	217.62	ESMH6R3VSN473MQ45T
	47000	30x35	0.60	5.06	565-2581-ND	4.84	36.67	276.73	ESMH6R3VSN473MR35T
	56000	25.4x50	0.60	5.71	565-2582-ND	4.12	31.18	235.33	ESMH6R3VSN563MQ50T
	56000	30x40	0.60	5.70	565-2583-ND	5.20	39.40	297.33	ESMH6R3VSN563MR40T
	68000	30x45	0.60	6.48	565-2585-ND	5.39	40.81	308.00	ESMH6R3VSN683MR45T
	68000	35x35	0.60	6.42	565-2584-ND	5.24	39.65	299.23	ESMH6R3VSN683MA35T
	82000	30x50	0.60	7.32	565-2586-ND	5.83	44.10	332.86	ESMH6R3VSN823MR50T
	82000	35x40	0.60	7.29	565-2587-ND	6.54	49.51	373.63	ESMH6R3VSN823MA40T
	100000	35x45	0.60	8.31	565-2588-ND	7.15	54.15	408.70	ESMH6R3VSN104MA45T
10	12000	22x25	0.50	2.39	565-2589-ND	2.63	19.88	150.00	ESMH100VSN123MP25T
	15000	22x30	0.50	2.76	565-2590-ND	2.70	20.41	154.00	ESMH100VSN153MP30T
	15000	25.4x25	0.50	2.77	565-2591-ND	3.00	22.72	171.44	ESMH100VSN153MQ25T
	18000	22x35	0.50	3.12	565-2592-ND	2.87	21.73	164.00	ESMH100VSN183MP35T
	22000	22x40	0.50	3.55	565-2593-ND	3.17	24.01	181.18	ESMH100VSN223MP40T
	22000	25.4x30	0.50	3.48	565-2594-ND	3.29	24.91	188.00	ESMH100VSN223MQ30T
	27000	22x45	0.50	4.04	565-2595-ND	3.34	25.27	190.74	ESMH100VSN273MP45T
	27000	25.4x35	0.50	3.98	565-2596-ND	3.48	26.34	198.79	ESMH100VSN273MQ35T
	33000	22x50	0.50	4.58	565-2597-ND	3.59	27.17	205.09	ESMH100VSN333MP50T
	33000	25.4x45	0.50	4.54	565-2598-ND	3.70	28.02	211.50	ESMH100VSN333MQ40T
	39000	25.4x45	0.50	5.08	565-2599-ND	4.06	30.71	231.75	ESMH100VSN393MQ45T
	39000	30x35	0.50	5.05	565-2600-ND	4.85	36.76	277.41	ESMH100VSN393MR35T
	47000	25.4x50	0.50	5.73	565-2601-ND	6.55	49.56	374.00	ESMH100VSN473MQ50T
	47000	30x40	0.50	5.72	565-2602-ND	5.38	40.76	307.65	ESMH100VSN473MR40T
	56000	30x45	0.50	6.44	565-2603-ND	5.59	42.30	319.28	ESMH100VSN563MR45T
	68000	35x40	0.50	7.27	565-2604-ND	6.60	49.98	377.20	ESMH100VSN683MA40T
	82000	35x50	0.50	8.49	565-2605-ND	7.34	55.57	419.36	ESMH100VSN823MA50T
16	8200	22x25	0.40	2.51	565-2606-ND	2.28	17.23	130.00	ESMH160VSN822MP25T
	10000	22x25	0.40	2.77	565-2607-ND	2.63	19.88	150.00	ESMH160VSN103MP25T
	12000	22x30	0.40	2.86	565-2608-ND	2.72	20.57	155.24	ESMH160VSN123MP30T
	15000	22x35	0.40	3.29	565-2609-ND	2.87	21.73	164.01	ESMH160VSN153MP35T
	15000	24.5x30	0.40	3.46	565-2610-ND	3.12	23.59	178.00	ESMH160VSN153MQ30T
	18000	22x40	0.40	3.72	565-2611-ND	3.05	23.06	174.00	ESMH160VSN183MP40T
	18000	25.4x35	0.40	3.98	565-2612-ND	3.05	23.06	174.00	ESMH160VSN183MQ35T
	22000	22x50	0.40	4.37	565-2613-ND	3.05	23.06	174.00	ESMH160VSN223MP50T
	22000	25.4x40	0.40	4.26	565-2614-ND	3.65	27.62	208.49	ESMH160VSN223MQ40T
	27000	25.4x45	0.40	4.72	565-2615-ND	3.78	28.62	216.00	ESMH160VSN273MQ45T
	27000	30x35	0.40	4.82	565-2616-ND	4.33	32.75	247.16	ESMH160VSN273MR35T
	33000	25.4x50	0.40	5.33	565-2617-ND	4.03	30.48	230.00	ESMH160VSN333MQ50T
	33000	30x40	0.40	5.36	565-2618-ND	5.23	39.57	298.67	ESMH160VSN333MR40T
	39000	30x45	0.40	6.01	565-2619-ND	6.09	46.11	348.00	ESMH160VSN393MR45T
	47000	30x50	0.40	6.79	565-2620-ND	5.36	40.55	306.00	ESMH160VSN473MR50T
	47000	35x40	0.40	6.76	565-2621-ND	5.88	44.52	336.00	ESMH160VSN473MA40T
	56000	35x45	0.40	7.62	565-2622-ND	6.51	49.29	372.00	ESMH160VSN563MA45T
	68000	35x50	0.40	8.63	565-2623-ND	7.28	55.12	416.00	ESMH160VSN683MA50T
	100000	35x80	0.30	0.00	565-2624-ND	10.46	79.23	597.99	ESMH160VSN104MA80T
25	5600	22x25	0.30	2.21	565-2625-ND	2.35	17.76	134.05	ESMH250VSN562MP25T
	6800	22x30	0.30	2.40	565-2626-ND	2.70	20.41	154.00	ESMH250VSN682MP30T
	6800	25.4x25	0.30	2.56	565-2627-ND	2.67	20.18	152.31	ESMH250VSN682MQ25T
	8200	22x35	0.30	2.72	565-2628-ND	2.95	22.34	168.60	ESMH250VSN822MP35T
	10000	22x40	0.30	3.09	565-2629-ND	2.75	20.82	157.11	ESMH250VSN103MP40T
	10000	25.4x30	0.30	3.12	565-2630-ND	3.33	25.18	190.00	ESMH250VSN103MQ30T
	12000	22x45	0.30	3.48	565-2631-ND	2.98	22.53	170.00	ESMH250VSN123MP45T
	12000	25.4x35	0.30	3.43	565-2632-ND	3.43	25.97	196.00	ESMH250VSN123MQ35T
	15000	22x50	0.30	4.00	565-2633-ND	3.15	23.85	180.00	ESMH250VSN153MP50T
	15000	25.4x40	0.30	3.95	565-2634-ND	3.53	26.76	201.97	ESMH250VSN153MQ40T
	18000	25.4x45	0.30	4.45	565-2635-ND	4.38	33.13	250.00	ESMH250VSN183MQ45T
	18000	30x35	0.30	4.46	565-2636-ND	4.34	32.86	247.99	ESMH250VSN183MR35T
	22000	25.4x50	0.30	5.02	565-2637-ND	4.06	30.74	232.00	ESMH250VSN223MQ50T
	22000	30x45	0.30	5.21	565-2638-ND	4.73	35.78	270.01	ESMH250VSN223MR45T
	27000	30x50	0.30	5.94	565-2639-ND	5.11	38.72	292.26	ESMH250VSN273MR50T
	27000	35x40	0.30	5.92	565-2640-ND	5.73	43.35	327.17	ESMH250VSN273MA40T
	33000	35x45	0.30	6.75	565-2641-ND	5.99	45.32	342.07	ESMH250VSN333MA45T
	39000	35x50	0.30	7.56	565-2642-ND	6.37	48.23	364.00	ESMH250VSN393MA50T
35	3900	22x25	0.25	2.22	565-2643-ND	2.37	17.92	135.25	ESMH350VSN392MP25T
	4700	22x30	0.25	2.41	565-2644-ND	2.41	18.26	137.80	ESMH350VSN472MP30T
35	4700	25.4x25	0.25	2.42	565-2645-ND	2.75	20.81	157.05	ESMH350VSN472MQ25T
	5600	22x35	0.25	2.75	565-2646-ND	2.87	21.74	164.09	ESMH350VSN562MP35T
	6800	22x40	0.25	2.80	565-2647-ND	2.76	20.87	157.52	ESMH350VSN682MP40T
	6800	25.4x30	0.25	2.74	565-2648-ND	2.75	20.86	157.42	ESMH350VSN682MQ30T
	8200	22x45	0.25	3.47	565-2649-ND	2.95	22.36	168.72	ESMH350VSN822MP45T
	8200	25.4x35	0.25	3.10	565-2650-ND	2.97	22.52	169.99	ESMH350VSN822MQ35T
	10000	22x50	0.25	3.57	565-2651-ND	3.12	23.59	178.00	ESMH350VSN103MP50T
	10000	25.4x40	0.25	3.53	565-2652-ND	3.60	27.28	205.89	ESMH350VSN103MQ40T
	10000	30x30	0.25	3.46	565-2653-ND	4.66	35.30	266.39	ESMH350VSN103MR30T
	12000	25.4x45	0.25	3.98	565-2654-ND	3.64	27.56	208.00	ESMH350VSN123MQ45T
	12000	30x35	0.25	4.01	565-2655-ND	4.93	37.29	281.46	ESMH350VSN123MR35T
	15000	25.4x50	0.25	4.54	565-2656-ND	3.93	29.77	224.68	ESMH350VSN153MQ50T
	15000	30x40	0.25	4.52	565-2657-ND	5.34	40.45	305.28	ESMH350VSN153MR40T
	15000	35x35	0.25	5.01	565-2658-ND	5.88	44.52	336.00	ESMH350VSN153MA35T
	18000	30x45	0.25	4.71	565-2659-ND	5.11	38.69	292.02	ESMH350VSN183MR45T
	18000	35x40	0.25	5.54	565-2660-ND	5.72	43.30	326.82	ESMH350VSN183MA40T
	22000	30x50	0.25	5.33	565-2661-ND	5.53	41.87	316.00	ESMH350VSN223MR50T
	22000	35x45	0.25	6.04	565-2662-ND	6.57	49.76	375.54	ESMH350VSN223MA45T
	27000	35x45	0.25	6.89	565-2663-ND	6.64	50.30	379.62	ESMH350VSN273MA50T
50	2200	22x25	0.20	1.91	565-2664-ND	2.37	17.97	135.60	ESMH500VSN222MP25T
	3300	22x30	0.20	2.37	565-2665-ND	2.83	21.43	161.72	ESMH500VSN332MP30T
	3900	22x35	0.20	2.65	565-2666-ND	3.02	22.84	172.40	ESMH500VSN392MP35T
	3900	25.4x30	0.20	2.68	565-2667-ND	2.92	22.07	166.58	ESMH500VSN392MQ30T
	4700	22x40	0.20	2.99	565-2668-ND	2.80	21.23	160.26	ESMH500VSN472MP40T
	4700	25.4x35	0.20	3.03	565-2669-ND	3.36	25.44	192.00	ESMH500VSN472MQ35T
	5600	22x45	0.20	3.36	565-2670-ND	3.04	22.99	173.54	ESMH500VSN562MP45T
	5600	25.4x35	0.20	3.31	565-2671-ND	3.52	26.65	201.17	ESMH500VSN562MQ35T
	6800	22x50	0.20	3.81	565-2672-ND	3.35	25.36	191.40	ESMH500VSN682MP50T
	6800	25.4x40	0.20	3.81	565-2673-ND	6.30	47.70	360.00	ESMH500VSN682MQ40T
	6800	30x35	0.20	3.85	565-2674-ND	4.28	32.43	244.79	ESMH500VSN682MR35T
	8200	25.4x50	0.20	4.37	565-2675-ND	4.41	33.39	252.00	ESMH500VSN822MQ50T
	8200	30x40	0.20	4.36	565-2676-ND	3.92	29.68	224.00	ESMH500VSN822MR40T
	10000	30x45	0.20	4.97	565-2677-ND	4.97	37.64	284.04	ESMH500VSN103MR45T
	10000	35x35	0.20	4.92	565-2678-ND	5.42	41.04	309.77	ESMH500VSN103MA35T
	12000	30x50	0.20	5.60	565-2679-ND	5.22	39.56	298.55	ESMH500VSN123MR50T
	12000	35x40	0.20	5.58	565-2680-ND	5.84	44.21	333.63	ESMH500VSN123MA40T
	15000	35x45	0.20	6.44	565-2681-ND	6.34	47.97	362.00	ESMH500VSN153MA45T
	18000	35x50	0.20	6.71	565-2682-ND	6.95	52.65	397.33	ESMH500VSN183MA50T
63	1800	22x25	0.15	1.82	565-2683-ND	2.76	20.90	157.73	ESMH630VSN182MP25T
	2200	22x30	0.15	2.31	565-2684-ND	2.86	21.62	163.18	ESMH630VSN222MP30T
	2700	22x35	0.15	2.40	565-2686-ND	3.04	23.05	173.96	ESMH630VSN272MP35T
	2700	25.4x25	0.15	2.40	565-2685-ND	3.19	24.12	182.00	ESMH630VSN272MQ25T
	3300	22x35	0.15	2.62	565-2688-ND	3.19	24.12	182.00	ESMH630VSN332MP35T
	3300	25.4x30	0.15	2.64	565-2687-ND	3.39	25.66	193.69	ESMH630VSN332MQ30T
	3900	22x40	0.15	2.93	565-2689-ND	3.37	25.54	192.74	ESMH630VSN392MP40T
	3900	25.4x35	0.15	2.97	565-2690-ND	3.65	27.64	208.61	ESMH630VSN392MQ35T
	4700	22x50	0.15	3.39	565-2691-ND	3.70	28.03	211.57	ESMH630VSN472MP50T
	4700	25.4x40	0.15	3.36	565-2692-ND	3.81	28.87	217.89	ESMH630VSN472MQ40T
	5600	25.4x45	0.15	3.77	565-2693-ND	4.18	31.69	239.13	ESMH630VSN562MQ45T
	5600	30x35	0.15	3.75	565-2694-ND	4.53	34.27	258.68	ESMH630VSN562MR35T
	6800	25.4x50	0.15	4.27	565-2695-ND	4.41	33.40	252.05	ESMH630VSN682MQ50T
	6800	30x40	0.15	4.27	565-2696-ND	4.82	36.50	275.49	ESMH630VSN682MR40T
	8200	30x45	0.15	4.83	565-2697-ND	6.06	45.86	346.15	ESMH630VSN822MR45T
	10000	30x50	0.15	5.49	565-2698-ND	5.87	44.44	335.41	ESMH630VSN103MR50T
	10000	35x40	0.15	5.47	565-2699-ND	7.10	53.75	405.64	ESMH630VSN103MA40T
	12000	35x45	0.15	6.19	565-2700-ND	7.69	58.20	439.23	ESMH630VSN123MA45T
100	820	22x25	0.15	1.86	565-2701-ND	2.42	18.29	138.00	ESMH101VSN821MP25T
	1200	22x30	0.15	2.09	565-2702-ND	2.94	22.26	168.00	ESMH101VSN122MP30T
	1500	22x35	0.15	2.41	565-2703-ND	3.15	23.85	180.00	ESMH101VSN152MP35T
	1500	25.4x30	0.15	2.43	565-2704-ND	3.15	23.85	180.00	ESMH101VSN152MQ30T
	1800	22x40	0.15	2.71	565-2705-ND	3.43	25.97	196.00	ESMH101VSN182MP40T
	1800	25.4x35	0.15	2.75	565-2706-ND	3.64	27.56	208.00	ESMH101VSN182MQ35T
	2200	22x45	0.15	3.08	565-2707-ND	3.50	26.50	200.00	ESMH101VSN222MP45T
	2200	25.4x40	0.15	3.13	565-2708-ND	3.92	29.68	224.00	ESMH101VSN222MQ40T
	2700	22x50	0.15	3.53	565-2709-ND	4.03	30.48	230.00	ESMH101VSN272MP50T
	2700	25.4x45	0.15	3.57	565-2710-ND	4.27	32.33	244.00	ESMH101VSN272MQ45T
	2700	30x35	0.15	3.55	565-2711-ND	5.57	42.14	318.00	ESMH101VSN272MR35T
	3300	25.4x50	0.15	4.06	565-2712-ND	4.83	36.57	276.00	ESMH101VSN332MQ50T
	3300	30x40	0.15	4.05	565-2713-ND	4.97	37.63	284.00	ESMH101VSN332MR40T
	3900	30x45	0.15	4.54	565-2714-ND	7.42	56.18	424.00	ESMH101VSN392MR45T
	4700	30x50	0.15	5.13	565-2715-ND	5.67	42.93	324.00	ESMH101VSN472MR50T
	4700	35x40	0.15	5.11	565-2716-ND	6.61	50.08	377.99	ESMH101VSN472MA40T
	5600	35x45	0.15	5.75	565-2717-ND	6.69	50.62	382.00	ESMH101VSN562MA45T
	6800	35x50	0.15	6.50	565-2718-ND	7.70	58.30	440.00	ESMH101VSN682MA50T

UNITED CHEMI-CON

SMQ Series Aluminum Electrolytic Capacitors (Snap-In)

Downsized General Purpose 85°C

RoHS COMPLIANT

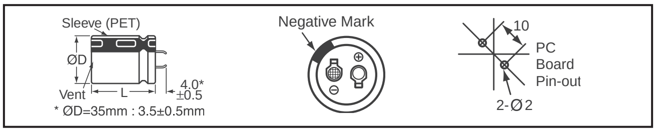

Features: • General Purpose • High Voltage • High CV • High Ripple • 2,000 Hours @ 85°C **Specifications:** • Operating Temperature Range: -25°C ~ 85°C • Capacitance Tolerance: ±20% • Leakage Current @ 20°C: 120Hz: 1≤ 3√ CV (uA) after 5 minutes @ 20ºC

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
160	560	22x25	0.15	2.25	565-2719-ND	2.43	18.40	138.87	ESMQ161VSN561MP25S
	680	22x30	0.15	2.50	565-2720-ND	2.64	19.97	150.71	ESMQ161VSN681MP30S
	820	22x35	0.15	2.75	565-2721-ND	3.07	23.21	175.15	ESMQ161VSN821MP35S
	1000	22x40	0.15	3.00	565-2722-ND	3.35	25.38	191.53	ESMQ161VSN102MP40S
	1000	25.4x30	0.15	3.00	565-2723-ND	3.39	25.65	193.60	ESMQ161VSN102MQ30S
	1500	30x30	0.15	3.73	565-2724-ND	4.57	34.63	261.36	ESMQ161VSN152MR30S
	1800	25.4x45	0.15	4.20	565-2725-ND	4.85	36.73	277.20	ESMQ161VSN182MQ45S
	1800	30x35	0.15	4.20	565-2726-ND	5.25	39.76	300.05	ESMQ161VSN182MR35S
	2200	30x40	0.15	4.78	565-2727-ND	6.22	47.09	355.39	ESMQ161VSN222MR40S
	3300	35x45	0.15	5.75	565-2728-ND	9.05	68.52	517.11	ESMQ161VSN332MA45S
	3900	35x50	0.15	6.00	565-2729-ND	10.35	78.34	591.25	ESMQ161VSN392MA50S
200	390	22x25	0.15	1.68	565-2730-ND	2.32	17.55	132.42	ESMQ201VSN391MP25S
	470	22x30	0.15	1.85	565-2731-ND	2.79	21.10	159.23	ESMQ201VSN471MP30S
	560	22x30	0.15	2.43	565-2732-ND	2.90	21.93	165.48	ESMQ201VSN561MP30S
	680	22x35	0.15	2.68	565-2733-ND	2.66	20.17	152.21	ESMQ201VSN681MP35S
	680	25.4x30	0.15	2.68	565-2734-ND	3.51	26.59	200.67	ESMQ201VSN681MQ30S
	820	22x40	0.15	2.93	565-2735-ND	4.15	31.43	237.17	ESMQ201VSN821MP40S
	1000	22x45	0.15	3.25	565-2736-ND	4.24	32.14	242.56	ESMQ201VSN102MP45S
	1000	25.4x35	0.15	3.25	565-2737-ND	3.86	29.24	220.68	ESMQ201VSN102MQ35S
	1000	30x30	0.15	3.25	565-2738-ND	4.48	33.92	256.00	ESMQ201VSN102MR30S
	1200	25.4x40	0.15	3.50	565-2739-ND	4.57	34.61	261.20	ESMQ201VSN122MQ40S
	1500	25.4x50	0.15	3.87	565-2740-ND	5.62	42.53	321.00	ESMQ201VSN152MQ50S
	1800	30x45	0.15	4.32	565-2741-ND	6.84	51.79	390.85	ESMQ201VSN182MR45S
	2200	30x50	0.15	4.92	565-2742-ND	7.99	60.50	456.60	ESMQ201VSN222MR50S
	2200	35x40	0.15	4.92	565-2743-ND	8.70	65.85	496.96	ESMQ201VSN222MA40S
	2700	35x50	0.15	5.45	565-2744-ND	9.20	69.69	525.98	ESMQ201VSN272MA50S
250	390	22x30	0.15	1.91	565-2745-ND	2.84	21.50	162.23	ESMQ251VSN391MP30S
	470	22x35	0.15	2.11	565-2746-ND	3.42	25.91	195.55	ESMQ251VSN471MP35S
	470	25.4x30	0.15	2.11	565-2747-ND	3.10	23.46	177.06	ESMQ251VSN471MQ30S
	560	22x40	0.15	2.25	565-2748-ND	3.80	28.76	217.06	ESMQ251VSN561MP40S
	560	25.4x30	0.15	2.25	565-2749-ND	3.73	28.26	213.27	ESMQ251VSN561MQ30S
	680	22x45	0.15	2.50	565-2750-ND	4.24	32.14	242.56	ESMQ251VSN681MP45S
	680	25.4x35	0.15	2.50	565-2751-ND	4.22	31.96	241.21	ESMQ251VSN681MQ35S
	820	22x50	0.15	2.77	565-2752-ND	4.72	35.70	269.44	ESMQ251VSN821MP50S
	820	25.4x40	0.15	2.77	565-2753-ND	5.05	38.23	288.54	ESMQ251VSN821MQ40S
	1000	25.4x45	0.15	3.32	565-2754-ND	5.38	40.73	307.36	ESMQ251VSN102MQ45S
	1000	30x35	0.15	3.32	565-2755-ND	5.88	44.53	336.05	ESMQ251VSN102MR35S
	1200	30x40	0.15	3.53	565-2756-ND	6.69	50.65	382.26	ESMQ251VSN122MR40S
	1500	30x50	0.15	4.04	565-2757-ND	8.09	61.22	462.00	ESMQ251VSN152MR50S
	1500	35x40	0.15	4.04	565-2758-ND	8.72	65.99	498.05	ESMQ251VSN152MA40S
	1800	35x45	0.15	4.55	565-2759-ND	9.94	75.23	567.80	ESMQ251VSN182MA45S

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
350	150	22x25	0.15	1.12	565-2760-ND	2.73	20.65	155.81	ESMQ351VSN151MP25S
	270	25.4x30	0.15	1.66	565-2761-ND	3.47	26.24	198.00	ESMQ351VSN271MQ30S
	390	22x50	0.15	2.06	565-2762-ND	5.37	40.68	307.00	ESMQ351VSN391MP50S
	470	30x35	0.15	2.40	565-2763-ND	5.22	39.54	298.45	ESMQ351VSN471MR35S
	560	30x40	0.15	2.60	565-2764-ND	6.53	49.46	373.25	ESMQ351VSN561MR40S
	680	35x35	0.15	2.96	565-2765-ND	9.48	71.76	541.55	ESMQ351VSN681MA35S
	820	30x50	0.15	3.25	565-2766-ND	10.03	75.98	573.40	ESMQ351VSN821MR50S
	820	35x45	0.15	3.25	565-2767-ND	8.50	64.37	485.85	ESMQ351VSN821MA45S
	1000	35x50	0.15	3.54	565-2768-ND	9.63	72.93	550.42	ESMQ351VSN102MA50S
400	150	22x30	0.15	1.16	565-2769-ND	2.89	21.89	165.20	ESMQ401VSN151MP30S
	180	22x35	0.15	1.44	565-2770-ND	3.06	23.14	174.61	ESMQ401VSN181MP35S
	220	22x40	0.15	1.49	565-2771-ND	3.47	26.27	198.26	ESMQ401VSN221MP40S
	220	25.4x30	0.15	1.49	565-2772-ND	3.74	28.33	213.84	ESMQ401VSN221MQ30S
	270	22x45	0.15	1.67	565-2773-ND	4.32	32.74	247.13	ESMQ401VSN271MP45S
	270	25.4x35	0.15	1.67	565-2774-ND	4.31	32.64	246.34	ESMQ401VSN271MQ35S
	330	22x50	0.15	1.90	565-2775-ND	5.45	41.25	311.34	ESMQ401VSN331MP50S
	330	25.4x40	0.15	1.90	565-2776-ND	5.11	38.66	291.80	ESMQ401VSN331MQ40S
	390	25.4x45	0.15	2.13	565-2777-ND	5.71	43.26	326.46	ESMQ401VSN391MQ45S
	470	25.4x50	0.15	2.39	565-2778-ND	7.13	53.99	407.44	ESMQ401VSN471MQ50S
	470	30x40	0.15	2.39	565-2779-ND	7.01	53.07	400.52	ESMQ401VSN471MR40S
	560	30x45	0.15	2.69	565-2780-ND	8.49	64.25	484.87	ESMQ401VSN561MR45S
	680	30x50	0.15	2.96	565-2781-ND	10.18	77.06	581.58	ESMQ401VSN681MR50S
	680	35x40	0.15	2.96	565-2782-ND	10.92	82.66	623.84	ESMQ401VSN681MA40S
	820	35x45	0.15	3.25	565-2783-ND	12.65	95.75	722.61	ESMQ401VSN821MA45S
450	82	22x25	0.20	0.83	565-2784-ND	2.45	18.55	140.00	ESMQ451VSN820MP25S
	100	22x25	0.20	0.93	565-2785-ND	3.06	23.14	174.61	ESMQ451VSN101MP25S
	120	22x30	0.20	1.04	565-2786-ND	2.91	22.07	166.54	ESMQ451VSN121MP30S
	150	25.4x25	0.20	1.19	565-2787-ND	3.66	27.69	209.00	ESMQ451VSN151MQ25S
	180	22x40	0.20	1.35	565-2788-ND	3.82	28.90	218.12	ESMQ451VSN181MP40S
	180	25.4x30	0.20	1.35	565-2789-ND	4.38	33.17	250.34	ESMQ451VSN181MQ30S
	220	22x45	0.20	1.55	565-2790-ND	4.44	33.59	253.47	ESMQ451VSN221MP45S
	270	22x50	0.20	1.78	565-2792-ND	5.65	42.78	322.89	ESMQ451VSN271MP50S
	270	25.4x40	0.20	1.78	565-2793-ND	5.61	42.50	320.76	ESMQ451VSN271MQ40S
	330	25.4x50	0.20	2.01	565-2794-ND	6.39	48.36	364.96	ESMQ451VSN331MQ50S
	330	30x40	0.20	2.01	565-2795-ND	6.43	48.69	367.48	ESMQ451VSN331MR40S
	390	30x40	0.20	2.24	565-2796-ND	8.13	61.54	464.45	ESMQ451VSN391MR40S
	470	30x45	0.20	2.53	565-2797-ND	9.19	69.55	524.89	ESMQ451VSN471MR45S
	470	35x40	0.20	2.53	565-2798-ND	10.00	75.71	571.36	ESMQ451VSN471MA40S
	560	30x50	0.20	2.82	565-2799-ND	10.32	78.13	589.65	ESMQ451VSN561MR50S
	560	35x45	0.20	2.82	565-2800-ND	10.38	78.62	593.39	ESMQ451VSN561MA45S

UNITED CHEMI-CON

KMH Series Aluminum Electrolytic Capacitors (Snap-In)

General Purpose 105°C

RoHS COMPLIANT

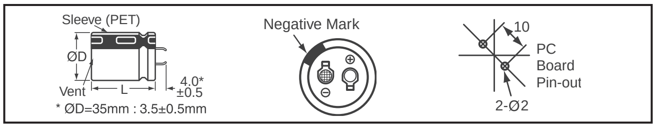

Features: • General Purpose • High CV • High Ripple • 2,000 Hours @ 105°C **Specifications:** • Operating Temperature Range: -40°C ~ 105°C • Capacitance Tolerance: ±20% • Leakage Current @ 20°C: I=0.02CV or 3mA, whichever is smaller

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
6.3	12000	22x25	0.60	1.54	565-2801-ND	2.62	19.85	149.79	EKMH6R3VSN123MP25T
	15000	22x25	0.60	1.72	565-2802-ND	2.63	19.88	150.00	EKMH6R3VSN153MP25T
	18000	22x30	0.60	1.95	565-2803-ND	2.70	20.41	154.00	EKMH6R3VSN183MP30T
	22000	22x35	0.60	2.23	565-2804-ND	2.79	21.12	159.38	EKMH6R3VSN223MP35T
	22000	25.4x30	0.60	2.25	565-2805-ND	3.08	23.32	176.00	EKMH6R3VSN223MQ30T
	27000	22x40	0.60	2.54	565-2806-ND	3.15	23.83	179.86	EKMH6R3VSN273MP40T
	27000	25.4x35	0.60	2.57	565-2807-ND	3.38	25.61	193.25	EKMH6R3VSN273MQ35T
	39000	30x35	0.60	3.26	565-2808-ND	4.80	36.37	274.48	EKMH6R3VSN393MR35T
	47000	25.4x50	0.60	3.69	565-2809-ND	4.02	30.46	229.91	EKMH6R3VSN473MQ50T
	47000	30x40	0.60	3.69	565-2810-ND	5.11	38.69	292.00	EKMH6R3VSN473MR40T
	56000	30x45	0.60	4.16	565-2811-ND	5.48	41.52	313.35	EKMH6R3VSN563MR45T
	68000	30x50	0.60	4.71	565-2812-ND	5.70	43.17	325.78	EKMH6R3VSN683MR50T
	68000	35x40	0.60	4.69	565-2813-ND	6.35	48.11	363.13	EKMH6R3VSN683MA40T
	82000	35x45	0.60	5.32	565-2814-ND	6.88	52.07	393.01	EKMH6R3VSN823MA45T
10	10000	22x25	0.50	1.55	565-2815-ND	2.57	19.49	147.06	EKMH100VSN103MP25T
	12000	22x30	0.50	1.77	565-2816-ND	2.66	20.14	152.00	EKMH100VSN123MP30T
	15000	22x30	0.50	1.97	565-2817-ND	2.80	21.19	159.92	EKMH100VSN153MP30T
	15000	25.4x25	0.50	1.96	565-2818-ND	3.01	22.79	172.00	EKMH100VSN153MQ25T
	18000	22x35	0.50	2.21	565-2820-ND	2.96	22.44	169.38	EKMH100VSN183MP35T
	18000	25.4x30	0.50	2.23	565-2819-ND	3.25	24.60	185.65	EKMH100VSN183MQ30T
	22000	25.4x35	0.50	2.54	565-2821-ND	3.33	25.22	190.35	EKMH100VSN223MQ35T
	27000	22x40	0.50	2.51	565-2822-ND	3.61	27.32	206.19	EKMH100VSN273MQ40T
	33000	25.4x45	0.50	3.30	565-2823-ND	3.81	28.85	217.76	EKMH100VSN333MQ45T
	33000	30x35	0.50	3.28	565-2824-ND	4.83	36.58	276.04	EKMH100VSN333MR35T
	39000	30x40	0.50	3.69	565-2825-ND	5.18	39.22	296.03	EKMH100VSN393MR40T
	39000	30x45	0.50	3.43	565-2826-ND	5.36	40.55	306.00	EKMH100VSN393MR45T
	47000	30x45	0.50	4.17	565-2827-ND	5.59	42.35	319.63	EKMH100VSN473MR45T
	56000	30x50	0.50	4.68	565-2828-ND	5.79	43.86	330.99	EKMH100VSN563MR50T
	56000	35x40	0.50	4.67	565-2829-ND	6.50	49.20	371.31	EKMH100VSN563MA40T
	68000	35x50	0.50	5.46	565-2830-ND	7.07	53.53	404.00	EKMH100VSN683MA50T
16	6800	22x25	0.40	1.57	565-2831-ND	2.29	17.31	130.68	EKMH160VSN682MP25T
	10000	22x30	0.40	1.97	565-2832-ND	2.75	20.84	157.30	EKMH160VSN103MP30T
	10000	25.4x25	0.40	1.97	565-2833-ND	2.60	19.69	148.62	EKMH160VSN103MQ25T
	12000	22x35	0.40	2.22	565-2834-ND	2.58	19.52	147.29	EKMH160VSN123MP35T

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
16	12000	25.4x30	0.40	2.24	565-2835-ND	3.01	22.79	172.00	EKMH160VSN123MQ30T
	15000	22x40	0.40	2.55	565-2836-ND	3.10	23.49	177.31	EKMH160VSN153MP40T
	15000	25.4x35	0.40	2.58	565-2837-ND	3.39	25.64	193.52	EKMH160VSN153MQ35T
	18000	22x45	0.40	2.87	565-2838-ND	3.33	25.18	190.00	EKMH160VSN183MP45T
	18000	25.4x40	0.40	2.92	565-2839-ND	3.65	27.66	208.76	EKMH160VSN183MQ40T
	22000	25.4x45	0.40	3.32	565-2840-ND	3.61	27.30	206.00	EKMH160VSN223MQ45T
	22000	30x35	0.40	3.29	565-2841-ND	4.74	35.91	270.98	EKMH160VSN223MR35T
	27000	25.4x50	0.40	3.78	565-2842-ND	3.85	29.15	220.00	EKMH160VSN273MQ50T
	27000	30x40	0.40	3.77	565-2843-ND	5.18	39.22	296.02	EKMH160VSN273MR40T
	33000	30x45	0.40	4.30	565-2844-ND	5.67	42.93	324.00	EKMH160VSN333MR45T
	39000	30x50	0.40	4.81	565-2845-ND	6.41	48.50	366.00	EKMH160VSN393MR50T
	39000	35x40	0.40	4.79	565-2846-ND	5.74	43.46	328.00	EKMH160VSN393MA40T
	47000	35x45	0.40	5.43	565-2847-ND	6.51	49.29	372.00	EKMH160VSN473MA45T
25	4700	22x25	0.30	1.50	565-2848-ND	2.62	19.80	149.45	EKMH250VSN472MP25T
	5600	22x25	0.30	1.63	565-2849-ND	2.69	20.34	153.47	EKMH250VSN562MP25T
	6800	22x30	0.30	1.86	565-2850-ND	2.86	21.69	163.67	EKMH250VSN682MP30T
	8200	22x35	0.30	2.11	565-2851-ND	2.87	21.73	164.00	EKMH250VSN822MP35T
	8200	25.4x30	0.30	2.12	565-2852-ND	3.19	24.12	182.00	EKMH250VSN822MQ30T
	10000	22x40	0.30	2.39	565-2853-ND	2.80	21.20	160.00	EKMH250VSN103MP40T
	10000	25.4x35	0.30	2.42	565-2854-ND	3.77	28.52	215.25	EKMH250VSN103MQ35T
	12000	22x45	0.30	2.69	565-2856-ND	3.01	22.79	172.00	EKMH250VSN123MP45T
	12000	25.4x40	0.30	2.74	565-2855-ND	3.60	27.29	205.99	EKMH250VSN123MQ40T
	15000	25.4x45	0.30	3.15	565-2857-ND	3.57	27.03	204.00	EKMH250VSN153MQ45T
	15000	30x35	0.30	3.13	565-2858-ND	4.84	36.67	276.79	EKMH250VSN153MR35T
	18000	25.4x50	0.30	3.54	565-2859-ND	3.92	29.68	224.00	EKMH250VSN183MQ50T
	18000	30x40	0.30	3.54	565-2860-ND	5.12	38.76	292.54	EKMH250VSN183MR40T
	22000	30x45	0.30	4.04	565-2861-ND	5.67	42.93	324.00	EKMH250VSN223MR45T
	27000	35x45	0.30	4.73	565-2862-ND	6.99	52.92	399.41	EKMH250VSN273MA45T
	33000	35x50	0.30	5.39	565-2863-ND	6.44	48.76	368.00	EKMH250VSN333MA50T
35	3300	22x25	0.25	1.40	565-2864-ND	2.66	20.14	151.97	EKMH350VSN332MP25T
	3900	22x30	0.25	1.57	565-2865-ND	2.70	20.41	154.00	EKMH350VSN392MP30T
	4700	22x30	0.25	1.72	565-2866-ND	2.78	21.08	159.06	EKMH350VSN472MP30T
	4700	25.4x25	0.25	1.80	565-2867-ND	3.07	23.26	175.57	EKMH350VSN472MQ25T

(Continued)

KMH Series Aluminum Electrolytic Capacitors (Snap-In) *(Cont.)*

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
35	5600	22x35	0.25	1.95	565-2868-ND	2.73	20.67	156.00	EKMH350VSN562MP35T
	5600	25.4x30	0.25	1.96	565-2869-ND	3.33	25.18	190.00	EKMH350VSN562MQ30T
	6800	22x40	0.25	2.20	565-2870-ND	2.84	21.47	162.00	EKMH350VSN682MP40T
	6800	25.4x35	0.25	2.23	565-2871-ND	3.32	25.17	189.94	EKMH350VSN682MQ35T
	8200	22x50	0.25	2.55	565-2872-ND	3.15	23.85	180.00	EKMH350VSN822MP50T
	8200	25.4x40	0.25	2.53	565-2873-ND	3.55	26.88	202.86	EKMH350VSN822MQ40T
	10000	25.4x45	0.25	2.87	565-2874-ND	3.75	28.36	214.00	EKMH350VSN103MQ45T
	10000	30x35	0.25	2.90	565-2875-ND	4.76	36.04	272.00	EKMH350VSN103MR35T
	12000	25.4x50	0.25	3.24	565-2876-ND	4.55	34.45	260.00	EKMH350VSN123MQ50T
	15000	30x45	0.25	3.72	565-2877-ND	5.04	38.16	288.00	EKMH350VSN153MR45T
	15000	35x35	0.25	3.67	565-2878-ND	5.57	42.14	318.00	EKMH350VSN153MA35T
	18000	35x40	0.25	4.37	565-2879-ND	5.88	44.52	336.00	EKMH350VSN183MA40T
	22000	35x50	0.25	4.92	565-2880-ND	7.12	53.90	406.82	EKMH350VSN223MA50T
50	1800	22x25	0.20	1.33	565-2881-ND	2.35	17.80	134.34	EKMH500VSN182MP25T
	2700	22x30	0.20	1.69	565-2882-ND	2.73	20.67	156.00	EKMH500VSN272MP30T
	2700	25.4x25	0.20	1.70	565-2883-ND	2.72	20.59	155.43	EKMH500VSN272MQ25T
	3300	22x35	0.20	1.93	565-2884-ND	2.66	20.13	151.91	EKMH500VSN332MP35T
	3300	25.4x30	0.20	1.85	565-2885-ND	2.86	21.68	163.60	EKMH500VSN332MQ30T
	3900	22x40	0.20	2.16	565-2886-ND	2.80	21.20	160.00	EKMH500VSN392MP40T
	3900	25.4x35	0.20	2.18	565-2887-ND	3.33	25.18	190.00	EKMH500VSN392MQ35T
	4700	22x45	0.20	2.43	565-2888-ND	3.01	22.79	172.00	EKMH500VSN472MP45T
	4700	25.4x35	0.20	2.39	565-2889-ND	3.50	26.50	200.00	EKMH500VSN472MQ35T
	4700	30x30	0.20	2.25	565-2890-ND	4.50	34.07	257.11	EKMH500VSN472MR30T
	5600	22x50	0.20	2.75	565-2891-ND	3.50	26.50	200.00	EKMH500VSN562MP50T
	5600	25.4x4	0.20	2.70	565-2892-ND	3.73	28.26	213.29	EKMH500VSN562MQ40T
	5600	30x35	0.20	2.76	565-2893-ND	4.82	36.53	275.67	EKMH500VSN562MR35T
	6800	25.4x50	0.20	3.30	565-2894-ND	3.78	28.62	216.00	EKMH500VSN682MQ50T
	6800	35x30	0.20	3.25	565-2895-ND	4.34	32.86	248.00	EKMH500VSN682MA30T
	8200	30x45	0.20	3.60	565-2896-ND	4.75	36.00	271.69	EKMH500VSN822MR45T
	8200	35x35	0.20	3.55	565-2897-ND	5.46	41.32	311.82	EKMH500VSN822MA35T
	10000	30x50	0.20	4.04	565-2898-ND	5.12	38.80	292.80	EKMH500VSN103MR50T
	10000	35x40	0.20	4.03	565-2899-ND	5.87	44.42	335.28	EKMH500VSN103MA40T
	12000	35x45	0.20	4.55	565-2900-ND	6.21	47.00	354.75	EKMH500VSN123MA45T
63	1200	22x25	0.15	1.19	565-2901-ND	2.31	17.49	131.98	EKMH630VSN122MP25T
63	1500	22x25	0.15	1.33	565-2902-ND	2.45	18.55	140.00	EKMH630VSN152MP25T
	1800	22x30	0.15	1.51	565-2903-ND	2.43	18.43	139.08	EKMH630VSN182MP30T
	2200	22x35	0.15	1.73	565-2904-ND	2.58	19.51	147.26	EKMH630VSN222MP35T
	2200	25.4x30	0.15	1.74	565-2905-ND	2.83	21.41	161.55	EKMH630VSN222MQ30T
	2700	22x40	0.15	1.97	565-2907-ND	2.75	20.85	157.32	EKMH630VSN272MP40T
	2700	25.4x35	0.15	1.99	565-2906-ND	3.29	24.91	188.00	EKMH630VSN272MQ35T
	3300	22x50	0.15	2.29	565-2908-ND	2.97	22.47	169.62	EKMH630VSN332MP50T
	3300	25.4x40	0.15	2.27	565-2909-ND	3.48	26.35	198.86	EKMH630VSN332MQ40T
	3900	25.4x45	0.15	2.54	565-2910-ND	3.71	28.09	212.00	EKMH630VSN392MQ45T
	3900	30x35	0.15	2.55	565-2911-ND	4.10	31.01	234.00	EKMH630VSN392MR35T
	4700	25.4x50	0.15	2.86	565-2912-ND	3.71	28.09	212.00	EKMH630VSN472MQ50T
	4700	30x40	0.15	2.86	565-2913-ND	4.31	32.60	246.00	EKMH630VSN472MR40T
	5600	30x45	0.15	3.22	565-2914-ND	4.48	33.92	256.00	EKMH630VSN562MR45T
	6800	30x50	0.15	3.65	565-2915-ND	4.83	36.57	276.00	EKMH630VSN682MR50T
	6800	35x40	0.15	3.64	565-2916-ND	5.61	42.46	320.44	EKMH630VSN682MA40T
	8200	35x45	0.15	3.90	565-2917-ND	6.16	46.64	352.00	EKMH630VSN822MA45T
	10000	35x50	0.15	4.40	565-2918-ND	6.65	50.35	380.00	EKMH630VSN103MA40T
100	560	22x25	0.15	10.5	565-2919-ND	2.66	20.14	152.00	EKMH101VSN561MP25T
	820	22x30	0.15	1.32	565-2920-ND	2.59	19.61	148.00	EKMH101VSN821MP30T
	1000	22x35	0.15	1.50	565-2922-ND	3.38	25.57	192.97	EKMH101VSN102MP35T
	1000	25.4x30	0.15	1.51	565-2921-ND	3.33	25.18	190.00	EKMH101VSN102MQ30T
	1200	22x40	0.15	1.69	565-2924-ND	3.26	24.65	186.00	EKMH101VSN122MP40T
	1200	25.4x35	0.15	1.71	565-2923-ND	3.38	25.56	192.92	EKMH101VSN122MQ35T
	1500	22x45	0.15	1.94	565-2925-ND	3.19	24.12	182.00	EKMH101VSN152MP45T
	1500	25.4x40	0.15	1.98	565-2926-ND	3.26	24.65	186.00	EKMH101VSN152MQ40T
	1800	25.4x45	0.15	2.23	565-2928-ND	3.99	30.21	228.00	EKMH101VSN182MQ45T
	1800	30x35	0.15	2.50	565-2927-ND	4.29	32.47	245.08	EKMH101VSN182MR35T
	2200	25.4x50	0.15	2.53	565-2929-ND	3.89	29.42	222.00	EKMH101VSN222MQ50T
	2200	30x40	0.15	2.70	565-2930-ND	4.51	34.18	257.93	EKMH101VSN222MR40T
	2700	30x45	0.15	2.88	565-2931-ND	4.59	34.72	262.00	EKMH101VSN272MR45T
	3300	30x50	0.15	3.28	565-2932-ND	5.46	41.34	312.00	EKMH101VSN332MR50T
	3300	35x40	0.15	3.2	565-2933-ND	7.04	53.27	402.00	EKMH101VSN332MA40T
	3900	35x45	0.15	3.67	565-2934-ND	5.74	43.46	328.00	EKMH101VSN392MA45T
	4700	35x50	0.15	3.80	565-2935-ND	7.42	56.18	424.00	EKMH101VSN472MA50T

KMQ Series Aluminum Electrolytic Capacitors (Snap-In)

Downsized General Purpose 105°C

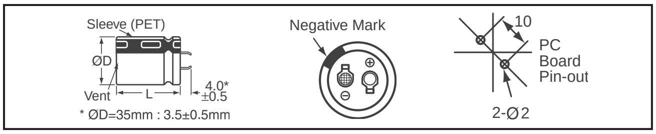

Features: • General Purpose • High Voltage • High CV • High Ripple • 2,000 Hours @ 105°C

Specifications: • Operating Temperature Range: -25°C ~ 105°C • Capacitance Tolerance: +20% • Leakage Current @ 20°C: I≤ 3√CV (uA) after 5 minutes @ +20°C

W.V (VDC)	Cap. (µF)	Case Size ØD x L (mm)	Tan δ	Max. Rated Ripple Cur. (A RMS) @ 85°C, 120Hz	Digi-Key Part No.	Pricing			United Chemi-Con Part No.
						1	10	100	
160	470	22x25	0.15	1.40	565-2936-ND	2.37	17.97	135.65	EKMQ161VSN471MP25S
	680	22x30	0.15	1.70	565-2937-ND	2.82	21.32	160.92	EKMQ161VSN681MP30S
	820	22x35	0.15	2.00	565-2938-ND	3.19	24.13	182.14	EKMQ161VSN821MP35S
	1000	22x40	0.15	2.20	565-2939-ND	3.54	26.80	202.28	EKMQ161VSN102MP40S
	1000	25.4x35	0.15	2.20	565-2940-ND	5.23	38.51	275.08	EKMQ161VSN102MQ35S
	1200	25.4x40	0.15	2.30	565-2941-ND	5.86	43.20	308.60	EKMQ161VSN122MQ40S
	1500	25.4x45	0.15	2.50	565-2942-ND	4.80	36.31	274.00	EKMQ161VSN152MQ45S
	1500	30x35	0.15	2.50	565-2943-ND	5.21	39.48	297.95	EKMQ161VSN152MR35S
	1800	30x40	0.15	2.70	565-2944-ND	5.77	43.71	329.88	EKMQ161VSN182MR40S
	2200	30x45	0.15	2.90	565-2945-ND	6.74	51.00	384.94	EKMQ161VSN222MR45S
	2200	35x35	0.15	2.90	565-2946-ND	7.40	56.06	423.08	EKMQ161VSN222MA35S
	2700	35x40	0.15	3.10	565-2947-ND	8.49	64.28	485.15	EKMQ161VSN272MA40S
	3300	35x50	0.15	3.30	565-2948-ND	10.06	76.17	574.87	EKMQ161VSN332MA50S
200	390	22x25	0.15	1.31	565-2949-ND	2.78	21.07	159.04	EKMQ201VSN391MP25S
	470	22x30	0.15	1.45	565-2950-ND	2.70	20.43	154.19	EKMQ201VSN471MP30S
	560	22x30	0.15	1.67	565-2951-ND	2.94	22.24	167.88	EKMQ201VSN561MP30S
	680	22x40	0.15	1.75	565-2952-ND	3.51	26.59	200.66	EKMQ201VSN681MP40S
	680	25.4x30	0.15	1.75	565-2953-ND	3.47	26.24	198.00	EKMQ201VSN681MQ30S
	820	22x45	0.15	2.04	565-2954-ND	3.99	30.22	228.07	EKMQ201VSN821MP45S
	820	25.4x35	0.15	2.04	565-2955-ND	3.85	29.12	219.76	EKMQ201VSN821MQ35S
	1000	22x50	0.15	2.30	565-2956-ND	4.45	33.67	254.12	EKMQ201VSN102MP50S
	1000	25.4x45	0.15	2.30	565-2957-ND	3.95	29.93	225.88	EKMQ201VSN102MQ45S
	1000	30x30	0.15	2.30	565-2958-ND	4.83	36.59	276.14	EKMQ201VSN102MR30S
	1200	25.4x50	0.15	2.65	565-2959-ND	4.53	34.33	259.06	EKMQ201VSN122MQ50S
	1200	30x35	0.15	2.65	565-2960-ND	5.48	41.46	312.94	EKMQ201VSN122MR35S
	1500	30x40	0.15	2.80	565-2961-ND	6.33	47.91	361.58	EKMQ201VSN152MR40S
	1800	30x45	0.15	3.08	565-2962-ND	4.97	37.66	284.24	EKMQ201VSN182MR45S
	1800	35x40	0.15	3.08	565-2963-ND	7.37	55.77	420.94	EKMQ201VSN182MA40S
	2200	35x45	0.15	3.48	565-2964-ND	11.01	83.39	629.39	EKMQ201VSN222MA45S
250	220	22x25	0.15	1.00	565-2965-ND	2.43	18.39	138.83	EKMQ251VSN221MP25S
	270	22x25	0.15	1.10	565-2966-ND	2.60	19.72	148.82	EKMQ251VSN271MP25S
	330	22x30	0.15	1.20	565-2967-ND	3.01	22.78	171.93	EKMQ251VSN331MP30S
	330	25.4x25	0.15	1.20	565-2968-ND	2.53	19.14	144.47	EKMQ251VSN331MQ25S
	390	22x35	0.15	1.30	565-2969-ND	3.34	25.25	190.59	EKMQ251VSN391MP35S
	470	22x40	0.15	1.40	565-2970-ND	3.34	25.27	190.73	EKMQ251VSN471MP40S
	470	25.4x30	0.15	1.40	565-2971-ND	3.08	23.32	176.00	EKMQ251VSN471MQ30S
	560	22x45	0.15	1.50	565-2972-ND	3.76	28.44	214.64	EKMQ251VSN561MP45S
	560	25.4x35	0.15	1.50	565-2973-ND	3.56	26.97	203.53	EKMQ251VSN561MQ35S
	680	22x50	0.15	1.70	565-2974-ND	4.48	33.92	256.00	EKMQ251VSN681MP50S
	680	25.4x40	0.15	1.70	565-2975-ND	13.76	104.15	786.00	EKMQ251VSN681MQ40S
	820	25.4x45	0.15	2.00	565-2976-ND	5.07	38.41	289.88	EKMQ251VSN821MQ45S
	820	30x35	0.15	2.00	565-2977-ND	5.24	39.65	299.25	EKMQ251VSN821MR35S
	1000	30x40	0.15	2.20	565-2978-ND	5.88	44.55	336.24	EKMQ251VSN102MR40S
	1200	30x45	0.15	2.30	565-2979-ND	7.01	53.06	400.47	EKMQ251VSN122MR45S
	1500	35x45	0.15	2.50	565-2980-ND	8.92	67.52	509.58	EKMQ251VSN152MA45S
	1800	35x50	0.15	2.70	565-2981-ND	10.13	76.70	578.89	EKMQ251VSN182MA50S
350	120	22x25	0.15	0.75	565-2982-ND	2.63	19.88	150.00	EKMQ351VSN121MP25S
	150	22x30	0.15	0.82	565-2983-ND	2.87	21.73	164.00	EKMQ351VSN151MP30S
350	180	22x30	0.15	0.90	565-2984-ND	3.29	24.91	188.00	EKMQ351VSN181MP30S
	220	22x35	0.15	1.00	565-2985-ND	3.71	28.09	212.00	EKMQ351VSN221MP35S
	220	25.4x30	0.15	1.00	565-2986-ND	3.40	25.71	194.00	EKMQ351VSN221MQ30S
	270	30x25	0.15	1.10	565-2987-ND	4.48	33.92	256.00	EKMQ351VSN271MR25S
	330	22x45	0.15	1.20	565-2988-ND	5.72	43.33	326.99	EKMQ351VSN331MP45S
	330	25.4x40	0.15	1.20	565-2989-ND	4.38	33.13	250.00	EKMQ351VSN331MQ40S
	390	25.4x45	0.15	1.30	565-2990-ND	4.83	36.57	276.00	EKMQ351VSN391MQ45S
	390	30x35	0.15	1.30	565-2991-ND	6.37	48.21	363.81	EKMQ351VSN391MR35S
	470	35x30	0.15	1.40	565-2992-ND	6.89	52.14	393.53	EKMQ351VSN471MA30S
	560	35x35	0.15	1.50	565-2993-ND	7.89	59.76	451.04	EKMQ351VSN561MA35S
	680	30x50	0.15	1.70	565-2994-ND	8.73	66.10	498.85	EKMQ351VSN681MR50S
	820	35x45	0.15	1.90	565-2995-ND	10.68	80.83	610.05	EKMQ351VSN821MA45S
400	100	22x25	0.15	0.70	565-2996-ND	2.52	19.08	144.00	EKMQ401VSN101MP25S
	120	22x30	0.15	0.75	565-2997-ND	2.72	20.57	155.27	EKMQ401VSN121MP30S
	150	22x30	0.15	0.88	565-2998-ND	3.35	25.38	191.53	EKMQ401VSN151MP30S
	150	25.4x25	0.15	0.88	565-2999-ND	3.12	23.59	178.00	EKMQ401VSN151MQ25S
	180	22x35	0.15	0.95	565-3000-ND	3.61	27.30	206.00	EKMQ401VSN181MP35S
	180	25.4x30	0.15	0.95	565-3001-ND	3.64	27.56	208.00	EKMQ401VSN181MQ30S
	220	22x45	0.15	1.10	565-3002-ND	4.09	30.93	233.44	EKMQ401VSN221MP45S
	220	25.4x35	0.15	1.10	565-3003-ND	4.09	30.98	233.80	EKMQ401VSN221MQ35S
	270	22x50	0.15	1.22	565-3004-ND	4.71	35.67	269.18	EKMQ401VSN271MP50S
	270	25.4x40	0.15	1.22	565-3005-ND	5.03	38.12	287.69	EKMQ401VSN271MQ40S
	330	25.4x45	0.15	1.44	565-3006-ND	5.55	42.05	317.34	EKMQ401VSN331MQ45S
	330	30x35	0.15	1.44	565-3007-ND	5.84	44.23	333.80	EKMQ401VSN331MR35S
	390	25.4x50	0.15	1.55	565-3008-ND	6.34	48.02	362.39	EKMQ401VSN391MQ50S
	390	30x40	0.15	1.55	565-3009-ND	6.69	50.65	382.26	EKMQ401VSN391MR40S
	470	30x45	0.15	1.68	565-3010-ND	7.83	59.30	447.53	EKMQ401VSN471MR45S
	470	35x35	0.15	1.68	565-3011-ND	8.18	61.97	467.67	EKMQ401VSN471MA35S
	560	30x50	0.15	1.90	565-3012-ND	9.01	68.20	514.68	EKMQ401VSN561MR50S
	560	35x40	0.15	1.90	565-3013-ND	9.45	71.58	540.21	EKMQ401VSN561MA40S
	680	35x45	0.15	2.12	565-3014-ND	11.08	83.86	632.89	EKMQ401VSN681MA45S
450	68	22x25	0.20	0.50	565-3015-ND	2.61	19.73	148.88	EKMQ451VSN680MP25S
	100	22x30	0.20	0.64	565-3016-ND	3.05	23.06	174.00	EKMQ451VSN101MP30S
	100	25.4x25	0.20	0.64	565-3017-ND	3.43	25.97	196.00	EKMQ451VSN101MQ25S
	120	22x35	0.20	0.72	565-3018-ND	3.47	26.24	198.00	EKMQ451VSN121MP35S
	150	22x40	0.20	0.79	565-3019-ND	4.41	33.39	252.00	EKMQ451VSN151MP40S
	150	25.4x30	0.20	0.79	565-3020-ND	4.41	33.39	252.00	EKMQ451VSN151MQ30S
	180	22x45	0.20	0.87	565-3021-ND	4.27	32.33	244.00	EKMQ451VSN181MP45S
	180	25.4x40	0.20	0.87	565-3022-ND	4.59	34.72	262.00	EKMQ451VSN181MQ40S
	220	25.4x45	0.20	1.00	565-3023-ND	5.60	42.40	320.00	EKMQ451VSN221MQ45S
	220	30x30	0.20	1.00	565-3024-ND	5.46	41.34	312.00	EKMQ451VSN221MR30S
	270	25.4x50	0.20	1.19	565-3025-ND	5.99	45.32	342.00	EKMQ451VSN271MQ50S
	270	30x40	0.20	1.19	565-3026-ND	7.35	55.65	420.00	EKMQ451VSN271MR40S
	330	30x45	0.20	1.38	565-3027-ND	7.18	54.35	410.19	EKMQ451VSN331MR45S
	330	35x35	0.20	1.38	565-3028-ND	7.67	58.04	438.00	EKMQ451VSN331MA35S
	390	30x50	0.20	1.55	565-3029-ND	8.05	60.95	460.00	EKMQ451VSN391MR50S
	390	35x40	0.20	1.55	565-3030-ND	10.50	79.50	600.00	EKMQ451VSN391MA40S
	470	35x45	0.20	1.74	565-3031-ND	10.50	79.50	600.00	EKMQ451VSN471MA45S
	560	35x50	0.20	1.90	565-3032-ND	11.47	86.87	655.60	EKMQ451VSN561MA50S

nichicon Solid Tantalum Electrolytic Chip Capacitors

Features:

F93 – Standard Series
- General purpose rectangular resin molded chip
- Low ESR/Impedance, excellent high frequency characteristics
- Excellent humidity resistance

F91 – Low ESR Series
- Rectangular resin molded chip
- Low ESR

F92 – Compact Series
- Low profile, rectangular resin molded chip
- Excellent high frequency characteristics
- Excellent humidity resistance

F97 – High Reliability Series
- Rectangular resin molded chip
- Soldering heat resistance
- Superior humidity and environment resistance
- High Reliability

Specification:
- Operating Temperature Range: -55°C ~ 125°C

Dimensions in mm

Case Code	L	W1	W2	H	S
A (F93 / 97)	3.2 ± 0.2	1.6 ± 0.2	1.2 ± 0.1	1.6 ±0.1	0.8 ± 0.2
A (F92)	3.2 ± 0.2	1.6 ± 0.2	1.2 ± 0.1	1.1 ±0.1	0.8 ± 0.2
B	3.5 ± 0.2	2.8 ± 0.2	2.2 ± 0.1	1.9 ± 0.2	0.8 ± 0.2
C	6.0 ± 0.2	3.2 ± 0.2	2.2 ± 0.1	2.5 ± 0.2	1.3 ± 0.2
N	7.3 ± 0.2	4.3 ± 0.2	2.4 ± 0.1	2.8 ± 0.2	1.3 ± 0.2
P	2.0 ± 0.2	1.25 ± 0.1	0.9 ± 0.1	1.1 ± 0.1	0.5 ± 0.2

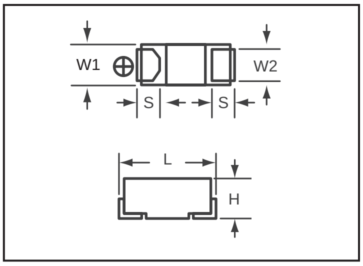

Rated Voltage	Cap. (µF)	Capacitance Tolerance	Case Size	Leakage Current (µA)	Dissipation Factor (% @120Hz)	E.S.R. (Ω@100kHz)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Nichicon Part No.
F93 – Standard Series													
6.3	3.3	±20%	A	0.5	6	4.5	493-2346-1-ND	1.92	16.80	493-2346-2-ND	2,000	75.00/M	F930J335MAA
	4.7	±20%	A	0.5	6	4.0	493-2347-1-ND	1.98	17.29	493-2347-2-ND	2,000	77.00/M	F930J475MAA
	6.8	±20%	A	0.5	6	3.5	493-2349-1-ND	2.04	17.78	493-2349-2-ND	2,000	80.00/M	F930J685MAA
	10	±20%	A	0.6	6	3.0	493-2340-1-ND	2.04	17.78	493-2340-2-ND	2,000	80.00/M	F930J106MAA
	15	±20%	A	0.9	8	2.9	493-2341-1-ND	2.22	19.38	493-2341-2-ND	2,000	87.00/M	F930J156MAA
	15	±20%	B	0.9	6	2.0	493-2342-1-ND	2.49	21.74	493-2342-2-ND	2,000	97.00/M	F930J156MBA
	22	±20%	A	1.4	8	2.5	493-2343-1-ND	2.32	20.25	493-2343-2-ND	2,000	91.00/M	F930J226MAA
	22	±20%	B	1.4	6	1.9	493-2344-1-ND	2.66	23.22	493-2344-2-ND	2,000	104.00/M	F930J226MBA
	47	±20%	B	3.0	8	1.0	493-2348-1-ND	3.45	30.13	493-2348-2-ND	2,000	135.00/M	F930J476MBA
	68	±20%	C	4.3	8	0.8	493-2350-1-ND	5.59	48.87	493-2350-2-ND	500	117.50	F930J686MCC
	220	±20%	N	13.9	10	0.5	493-2345-1-ND	10.34	90.29	493-2345-2-ND	500	217.00	F930J227MNC
10	2.2	±20%	A	0.5	6	5.0	493-2356-1-ND	1.92	16.80	493-2356-2-ND	2,000	75.00/M	F931A225MAA
	3.3	±20%	A	0.5	6	4.5	493-2358-1-ND	1.92	16.80	493-2358-2-ND	2,000	75.00/M	F931A335MAA
	4.7	±20%	A	0.5	6	4.0	493-2361-1-ND	1.83	15.96	493-2361-2-ND	2,000	71.00/M	F931A475MAA
	10	±20%	A	1.0	6	3.0	493-2351-1-ND	1.74	15.20	493-2351-2-ND	2,000	68.00/M	F931A106MAA
	10	±20%	B	1.0	6	2.1	493-2352-1-ND	2.49	21.74	493-2352-2-ND	2,000	97.00/M	F931A106MBA
	15	±20%	B	1.5	6	2.0	493-2354-1-ND	2.66	23.22	493-2354-2-ND	2,000	104.00/M	F931A156MBA
	22	±20%	B	2.2	8	1.9	493-2357-1-ND	2.61	22.80	493-2357-2-ND	2,000	102.00/M	F931A226MBA
	33	±20%	B	3.3	8	1.4	493-2359-1-ND	3.61	31.58	493-2359-2-ND	2,000	141.00/M	F931A336MBA
	33	±20%	C	3.3	6	1.1	493-2360-1-ND	5.25	45.90	493-2360-2-ND	500	110.00	F931A336MCC
	47	±20%	C	4.7	8	0.9	493-2362-1-ND	5.59	48.87	493-2362-2-ND	500	117.50	F931A476MCC
	68	±20%	N	6.8	6	0.6	493-2363-1-ND	7.97	69.62	493-2363-2-ND	500	167.00	F931A686MNC
	100	±20%	N	10.0	10	0.6	493-2353-1-ND	8.79	76.76	493-2353-2-ND	500	184.50	F931A107MNC
	150	±20%	N	15.0	10	0.6	493-2355-1-ND	10.47	91.50	493-2355-2-ND	500	219.50	F931A157MNC
16	1	±20%	A	0.5	4	7.5	493-2364-1-ND	1.92	16.80	493-2364-2-ND	2,000	75.00/M	F931C105MAA
	1.5	±20%	A	0.5	6	6.0	493-2366-1-ND	1.92	16.80	493-2366-2-ND	2,000	75.00/M	F931C155MAA
	2.2	±20%	A	0.5	6	5.0	493-2368-1-ND	1.83	15.96	493-2368-2-ND	2,000	71.00/M	F931C225MAA
	3.3	±20%	A	0.5	6	4.5	493-2370-1-ND	1.83	15.96	493-2370-2-ND	2,000	71.00/M	F931C335MAA
	4.7	±20%	A	0.8	6	4.0	493-2372-1-ND	1.83	15.96	493-2372-2-ND	2,000	71.00/M	F931C475MAA
	6.8	±20%	A	1.1	6	3.5	493-2374-1-ND	2.09	18.28	493-2374-2-ND	2,000	82.00/M	F931C685MAA
	6.8	±20%	B	1.1	6	2.5	493-2375-1-ND	2.49	21.74	493-2375-2-ND	2,000	97.00/M	F931C685MBA
	10	±20%	B	1.6	6	2.0	493-2365-1-ND	2.60	22.72	493-2365-2-ND	2,000	102.00/M	F931C106MBA
	15	±20%	B	2.4	8	2.0	493-2367-1-ND	2.83	24.70	493-2367-2-ND	2,000	111.00/M	F931C156MBA
	22	±20%	C	3.5	6	1.1	493-2369-1-ND	5.25	45.90	493-2369-2-ND	500	110.00	F931C226MCC
	33	±20%	C	5.3	8	1.1	493-2371-1-ND	5.59	48.87	493-2371-2-ND	500	117.50	F931C336MCC
	47	±20%	N	7.5	6	0.7	493-2373-1-ND	7.57	66.16	493-2373-2-ND	500	159.00	F931C476MNC
	68	±20%	N	10.9	8	0.6	493-2376-1-ND	8.93	78.01	493-2376-2-ND	500	187.50	F931C686MNC
20	1.5	±20%	A	0.5	6	6.3	493-2378-1-ND	1.92	16.80	493-2378-2-ND	2,000	75.00/M	F931D155MAA
	2.2	±20%	A	0.5	6	5.0	493-2380-1-ND	1.83	15.96	493-2380-2-ND	2,000	71.00/M	F931D225MAA
	3.3	±20%	A	0.7	6	4.5	493-2382-1-ND	2.38	20.75	493-2382-2-ND	2,000	93.00/M	F931D335MAA
	4.7	±20%	A	0.9	6	4.0	493-2384-1-ND	3.00	26.22	493-2384-2-ND	2,000	117.00/M	F931D475MAA
	4.7	±20%	B	0.9	6	2.8	493-2385-1-ND	3.00	26.22	493-2385-2-ND	2,000	117.00/M	F931D475MBA
	6.8	±20%	B	1.4	6	2.5	493-2386-1-ND	3.17	27.66	493-2386-2-ND	2,000	124.00/M	F931D685MBA
	10	±20%	B	2.0	6	2.1	493-2377-1-ND	4.15	36.25	493-2377-2-ND	2,000	162.00/M	F931D106MBA
	15	±20%	C	3.0	6	1.2	493-2379-1-ND	5.25	45.90	493-2379-2-ND	500	110.00	F931D156MCC
	22	±20%	C	4.4	8	1.1	493-2381-1-ND	5.59	48.87	493-2381-2-ND	500	117.50	F931D226MCC
	33	±20%	N	6.6	6	0.7	493-2383-1-ND	7.97	69.62	493-2383-2-ND	500	167.00	F931D336MNC
25	.68	±20%	A	0.5	4	7.6	493-2394-1-ND	1.92	16.80	493-2394-2-ND	2,000	75.00/M	F931E684MAA
	1	±20%	A	0.5	4	7.5	493-2387-1-ND	1.92	16.80	493-2387-2-ND	2,000	75.00/M	F931E105MAA
	1.5	±20%	A	0.5	6	6.7	493-2389-1-ND	1.98	17.29	493-2389-2-ND	2,000	77.00/M	F931E155MAA
	2.2	±20%	A	0.6	6	6.3	493-2390-1-ND	2.09	18.28	493-2390-2-ND	2,000	82.00/M	F931E225MAA
	3.3	±20%	B	0.8	6	3.1	493-2392-1-ND	3.17	27.66	493-2392-2-ND	2,000	124.00/M	F931E335MBA
	4.7	±20%	B	1.2	6	2.8	493-2393-1-ND	3.32	29.03	493-2393-2-ND	2,000	130.00/M	F931E475MBA
	6.8	±20%	C	1.7	6	1.8	493-2395-1-ND	4.86	42.45	493-2395-2-ND	500	102.00	F931E685MCC
	10	±20%	C	2.5	6	1.5	493-2388-1-ND	5.25	45.90	493-2388-2-ND	500	110.00	F931E106MCC
	22	±20%	N	5.5	6	0.7	493-2391-1-ND	7.80	68.13	493-2391-2-ND	500	163.50	F931E226MNC
35	.47	±20%	A	0.5	4	10.0	493-2402-1-ND	1.92	16.80	493-2402-2-ND	2,000	75.00/M	F931V474MAA
	.68	±20%	A	0.5	4	7.6	493-2404-1-ND	1.92	16.80	493-2404-2-ND	2,000	75.00/M	F931V684MAA
	1	±20%	A	0.5	4	7.5	493-2396-1-ND	1.98	17.29	493-2396-2-ND	2,000	77.00/M	F931V105MAA
	1.5	±20%	A	0.5	6	7.5	493-2398-1-ND	1.83	15.96	493-2398-2-ND	2,000	71.00/M	F931V155MAA
	2.2	±20%	B	0.8	6	3.8	493-2400-1-ND	2.49	21.74	493-2400-2-ND	2,000	97.00/M	F931V225MBA
	3.3	±20%	B	1.2	6	3.5	493-2401-1-ND	3.32	29.03	493-2401-2-ND	2,000	130.00/M	F931V335MBA
	4.7	±20%	C	1.6	6	1.8	493-2403-1-ND	4.97	43.43	493-2403-2-ND	500	104.50	F931V475MCC
	6.8	±20%	C	2.4	6	1.8	493-2405-1-ND	5.54	48.37	493-2405-2-ND	500	116.00	F931V685MCC
	10	±20%	C	3.5	6	1.6	493-2397-1-ND	8.25	72.09	493-2397-2-ND	500	173.00	F931V106MCC
	15	±20%	N	5.3	6	0.7	493-2399-1-ND	8.25	72.09	493-2399-2-ND	500	173.00	F931V156MNC

(Continued)

Rated Voltage	Cap. (µF)	Capacitance Tolerance	Case Size	Leakage Current (µA)	Dissipation Factor (% @120Hz)	E.S.R. (Ω@100kHz)	Digi-Key Part No.	Cut Tape Pricing		Digi-Key Part No.	Tape & Reel		Nichicon Part No.
								10	100		Size	Pricing	
F91 – Low ESR Series													
6.3	100	±20%	C	6.3	10	.250	493-2309-1-ND	11.22	98.00	493-2309-2-ND	500	235.50	F910J107MCC
	150	±20%	N	9.5	10	.100	493-2310-1-ND	16.68	145.73	493-2310-2-ND	500	350.00	F910J157MNC
	220	±20%	N	13.9	10	.100	493-2311-1-ND	17.01	148.58	493-2311-2-ND	500	357.00	F910J227MNC
10	47	±20%	C	4.7	8	.400	493-2314-1-ND	11.22	98.00	493-2314-2-ND	500	235.50	F911A476MCC
	100	±20%	N	10	10	.100	493-2312-1-ND	16.68	145.73	493-2312-2-ND	500	350.00	F911A107MNC
	150	±20%	N	15.0	10	.100	493-2313-1-ND	17.01	148.58	493-2313-2-ND	500	357.00	F911A157MNC
16	33	±20%	C	5.3	8	.400	493-2315-1-ND	11.22	98.00	493-2315-2-ND	500	235.50	F911C336MCC
	47	±20%	N	7.5	6	.150	493-2316-1-ND	15.01	131.10	493-2316-2-ND	500	315.00	F911C476MNC
20	15	±20%	C	3	6	.450	493-2317-1-ND	11.22	98.00	493-2317-2-ND	500	235.50	F911D156MCC
	33	±20%	N	6.6	6	.200	493-2318-1-ND	16.68	145.73	493-2318-2-ND	500	350.00	F911D336MNC
25	10	±20%	C	2.5	6	.450	493-2319-1-ND	11.22	98.00	493-2319-2-ND	500	235.50	F911E106MCC
	22	±20%	N	5.5	6	.200	493-2320-1-ND	16.68	145.73	493-2320-2-ND	500	350.00	F911E226MNC
	33	±20%	N	8.3	8	.200	493-2321-1-ND	16.68	145.73	493-2321-2-ND	500	350.00	F911E336MNC
35	6.8	±20%	C	2.4	6	.600	493-2325-1-ND	11.22	98.00	493-2325-2-ND	500	235.50	F911V685MCC
	10	±20%	N	3.5	6	.300	493-2322-1-ND	16.68	145.73	493-2322-2-ND	500	350.00	F911V106MNC
	15	±20%	N	5.3	6	.300	493-2323-1-ND	16.68	145.73	493-2323-2-ND	500	350.00	F911V156MNC
	22	±20%	N	7.7	8	.300	493-2324-1-ND	16.68	145.73	493-2324-2-ND	500	350.00	F911V226MNC
F92 – Compact Series													
4	2.2	±20%	P	0.5	8	12.0	493-2326-1-ND	2.94	25.69	493-2326-2-ND	3,000	115.00/M	F920G225MPA
	22	±20%	P	0.9	20	5.0	493-2327-1-ND	4.31	37.62	493-2327-2-ND	3,000	168.00/M	F920G226MPA
6.3	1.5	±20%	P	0.5	8	12.0	493-2329-1-ND	2.94	25.69	493-2329-2-ND	3,000	115.00/M	F920J155MPA
	10	±20%	P	0.6	10	6.0	493-2328-1-ND	4.13	36.10	493-2328-2-ND	3,000	162.00/M	F920J106MPA
10	1	±20%	P	0.5	8	12.0	493-2330-1-ND	2.94	25.69	493-2330-2-ND	3,000	115.00/M	F921A105MPA
	2.2	±20%	P	0.5	8	12.0	493-2331-1-ND	5.70	49.78	493-2331-2-ND	3,000	223.00/M	F921A225MPA
	3.3	±20%	P	0.5	8	12.0	493-2332-1-ND	4.18	36.56	493-2332-2-ND	3,000	164.00/M	F921A335MPA
	4.7	±20%	P	0.5	8	6.0	493-2333-1-ND	5.87	51.30	493-2333-2-ND	3,000	230.00/M	F921A475MPA
16	.68	±20%	P	0.5	8	12.0	493-2335-1-ND	3.05	26.68	493-2335-2-ND	3,000	119.00/M	F921C684MPA
	1	±20%	P	0.5	8	12.0	493-2334-1-ND	3.11	27.17	493-2334-2-ND	3,000	122.00/M	F921C105MPA
35	0.1	±20%	A	0.5	4	10.0	493-2336-1-ND	2.15	18.77	493-2336-2-ND	2,500	84.00/M	F921V104MAA
	.15	±20%	A	0.5	4	10.0	493-2337-1-ND	2.15	18.77	493-2337-2-ND	2,500	84.00/M	F921V154MAA
	.22	±20%	A	0.5	4	10.0	493-2338-1-ND	2.15	18.77	493-2338-2-ND	2,500	84.00/M	F921V224MAA
	.33	±20%	A	0.5	4	10.0	493-2339-1-ND	2.24	19.61	493-2339-2-ND	2,500	88.00/M	F921V334MAA
F97 – High Reliability Series													
6.3	3.3	±20%	A	0.5	6	4.5	493-2407-1-ND	2.15	18.77	493-2407-2-ND	2,000	84.00/M	F970J335MAA
	6.8	±20%	B	0.5	6	2.5	493-2409-1-ND	4.19	36.59	493-2409-2-ND	2,000	164.00/M	F970J685MBA
	22	±20%	C	1.4	6	1.1	493-2406-1-ND	7.61	66.50	493-2406-2-ND	500	159.50	F970J226MCC
	47	±20%	N	3.0	6	0.7	493-2408-1-ND	9.24	80.75	493-2408-2-ND	500	194.00	F970J476MNC
	68	±20%	N	4.3	6	0.6	493-2410-1-ND	8.35	72.96	493-2410-2-ND	500	175.00	F970J686MNC
10	2.2	±20%	A	0.5	6	5.0	493-2412-1-ND	2.15	18.77	493-2412-2-ND	2,000	84.00/M	F971A225MAA
	4.7	±20%	B	0.5	6	2.8	493-2414-1-ND	4.19	36.59	493-2414-2-ND	2,000	164.00/M	F971A475MBA
	15	±20%	C	1.5	6	1.2	493-2411-1-ND	7.61	66.50	493-2411-2-ND	500	159.50	F971A156MCC
	33	±20%	N	3.3	6	0.7	493-2413-1-ND	9.24	80.75	493-2413-2-ND	500	194.00	F971A336MNC
	47	±20%	N	4.7	6	0.7	493-2415-1-ND	8.35	72.96	493-2415-2-ND	500	175.00	F971A476MNC
16	1	±20%	A	0.5	4	7.5	493-2416-1-ND	4.08	35.64	493-2416-2-ND	2,000	159.00/M	F971C105MAA
	1.5	±20%	A	0.5	4	6.3	493-2418-1-ND	2.15	18.77	493-2418-2-ND	2,000	84.00/M	F971C155MAA
	3.3	±20%	B	0.5	6	3.1	493-2420-1-ND	4.19	36.59	493-2420-2-ND	2,000	164.00/M	F971C335MBA
	4.7	±20%	B	0.8	6	2.8	493-2422-1-ND	3.68	32.15	493-2422-2-ND	2,000	144.00/M	F971C475MBA
	10	±20%	C	1.6	6	1.5	493-2417-1-ND	7.61	66.50	493-2417-2-ND	500	159.50	F971C106MCC
	22	±20%	N	3.5	6	0.7	493-2419-1-ND	9.24	80.75	493-2419-2-ND	500	194.00	F971C226MNC
	33	±20%	N	5.3	6	0.7	493-2421-1-ND	8.35	72.96	493-2421-2-ND	500	175.00	F971C336MNC
20	.68	±20%	A	0.5	4	7.6	493-2425-1-ND	4.08	35.64	493-2425-2-ND	2,000	159.00/M	F971D684MAA
	2.2	±20%	B	0.5	6	3.8	493-2424-1-ND	4.19	36.59	493-2424-2-ND	2,000	164.00/M	F971D225MBA
	6.8	±20%	C	1.4	6	1.8	493-2426-1-ND	7.61	66.50	493-2426-2-ND	500	159.50	F971D685MCC
	15	±20%	N	3.0	6	0.7	493-2423-1-ND	9.24	80.75	493-2423-2-ND	500	194.00	F971D156MNC
25	.47	±20%	A	0.5	4	10.0	493-2429-1-ND	4.08	35.64	493-2429-2-ND	2,000	159.00/M	F971E474MAA
	1.5	±20%	B	0.5	4	4.0	493-2428-1-ND	4.19	36.59	493-2428-2-ND	2,000	164.00/M	F971E155MBA
	4.7	±20%	C	1.2	6	1.8	493-2430-1-ND	7.61	66.50	493-2430-2-ND	500	159.50	F971E475MCC
	10	±20%	N	2.5	6	1.0	493-2427-1-ND	9.24	80.75	493-2427-2-ND	500	194.00	F971E106MNC
35	.1	±20%	A	0.5	4	15.0	493-2431-1-ND	4.08	35.64	493-2431-2-ND	2,000	159.00/M	F971V104MAA
	.15	±20%	A	0.5	4	15.0	493-2433-1-ND	4.08	35.64	493-2433-2-ND	2,000	159.00/M	F971V154MAA
	.22	±20%	A	0.5	4	12.0	493-2435-1-ND	4.08	35.64	493-2435-2-ND	2,000	159.00/M	F971V224MAA
	.33	±20%	A	0.5	4	12.0	493-2437-1-ND	4.08	35.64	493-2437-2-ND	2,000	159.00/M	F971V334MAA
	.47	±20%	B	0.5	4	5.0	493-2439-1-ND	4.19	36.59	493-2439-2-ND	2,000	164.00/M	F971V474MBA
	.68	±20%	B	0.5	4	5.0	493-2441-1-ND	4.19	36.59	493-2441-2-ND	2,000	164.00/M	F971V684MBA
	1	±20%	B	0.5	4	4.0	493-2432-1-ND	4.19	36.59	493-2432-2-ND	2,000	164.00/M	F971V105MBA
	1.5	±20%	C	0.5	4	2.0	493-2434-1-ND	5.48	47.88	493-2434-2-ND	750	172.50	F971V155MCMBMA
	2.2	±20%	C	0.8	6	2.0	493-2436-1-ND	6.53	57.00	493-2436-2-ND	500	137.00	F971V225MCC
	3.3	±20%	C	1.2	6	2.0	493-2438-1-ND	7.61	66.50	493-2438-2-ND	500	159.50	F971V335MCC
	4.7	±20%	N	1.6	6	1.0	493-2440-1-ND	8.97	78.39	493-2440-2-ND	500	188.00	F971V475MNC
	6.8	±20%	N	2.4	6	1.0	493-2442-1-ND	9.24	80.75	493-2442-2-ND	500	194.00	F971V685MNC

EF Series Resin Dipped Solid Tantalum Capacitors

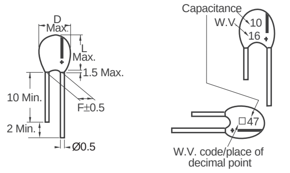

Specifications:

- **Operating Temperature Range:** -55°C ~ 105°C (4 ~ 6.3V, -55°C ~ 85°C)
- **Rated Working Volt. Range:** 6.3 ~ 50 WV DC
- **Rated Capacitance Range:** .1 ~ 330 µF
- **Capacitance Tolerance:** As Specified
- **Leakage Current:** I = 0.008 CV or 0.05 µA whichever is greater; I in µA, C in µF, V in volts
- Leads are not less than 0.394" in length

W.V. (D.C.)	Cap. (µF)	Cap. Tol. (%)	Dimensions (mm) D	L	F	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
6.3	68	±20	5.5	9.5	2.5	P2018-ND	1.87	16.05	125.73	799.00	743.00/M	695.00/M	ECS-F0JE686
	100	±20	6.0	11.0	2.5	P2019-ND	2.85	24.42	191.29	1215.00	1131.00/M	1057.00/M	ECS-F0JE107
	150	±20	7.5	12.5	5.0	P2020-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F0JE157
10	15	±10	4.5	7.0	2.5	P2027-ND	.81	6.96	54.52	346.00	322.00/M	301.00/M	ECS-F1AE156K
	33	±10	5.2	8.5	2.5	P2029-ND	1.30	11.13	87.19	554.00	515.00/M	482.00/M	ECS-F1AE336K
	68	±20	6.0	11.0	2.5	P2031-ND	2.85	24.42	191.29	1215.00	1131.00/M	1057.00/M	ECS-F1AE686
	100	±20	7.5	12.5	5.0	P2032-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F1AE107
16	4.7	±10	3.7	6.5	2.5	P2036-ND*	.59	5.04	39.48	251.00	233.00/M	218.00/M	ECS-F1CE475K
	6.8	±10	4.0	7.0	2.5	P2037-ND*	.70	6.03	47.24	300.00	279.00/M	261.00/M	ECS-F1CE685K
	68	±20	7.5	12.5	5.0	P2043-ND	6.46	55.38	433.81	2755.00	2564.00/M	2397.00/M	ECS-F1CE686
25	33	±20	7.5	12.5	5.0	P2052-ND	3.92	33.60	263.20	1672.00	1556.00/M	1455.00/M	ECS-F1EE336
35	1.0	±10	3.5	5.5	2.5	P2059-ND*	.56	4.83	37.84	240.00	224.00/M	209.00/M	ECS-F1VE105K
50	0.15	±20	3.3	5.0	2.5	P2068-ND	.43	3.66	28.67	182.00	169.00/M	158.00/M	ECS-F1HE154
	0.33	±20	3.5	5.5	2.5	P2070-ND	.47	4.02	31.49	200.00	186.00/M	174.00/M	ECS-F1HE334
	0.47	±20	3.7	6.5	2.5	P2071-ND	.51	4.38	34.31	218.00	203.00/M	190.00/M	ECS-F1HE474
	1.5	±10	4.5	7.0	2.5	P2074-ND	1.31	11.25	88.13	560.00	521.00/M	487.00/M	ECS-F1HE155K

* Included in F-KIT-ND

TE Series Tantalum Electrolytic Chip Capacitors

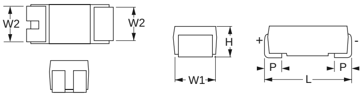

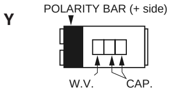

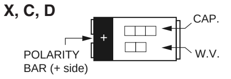

Dimensions (mm)

EIA Size	Size Code	L ± 0.2	W_1 ± 0.2	W_2 ± 0.1	H ± 0.2	P ± 0.3
A	Y	3.2	1.6	1.2	1.6	0.8
B	X	3.5	2.8	2.2	1.9	0.8
C	C	6.0	3.2	2.2	2.5	1.3
D	D	7.3	4.3	2.4	2.8	1.3

Features:

• Wide capacitance range • High performance in temperature and frequency characteristics • Excellent solderability • Excellent terminal construction against bending of P.W.B. • Low inductance structure.

Specifications:

• **Operating Temperature Range:** –55 ~ 125°C • **Capacitance Tolerance:** ±20% at 120Hz, 20°C • **DC Leakage Current:** I = 0.01CV or 0.5µA maximum whichever is greater. DC leakage current shall be measured after 2 minutes application of rated working voltage at 20°C • **tan δ:** ≤3.3µF – 0.04 maximum; 4.7 ~ 68µF – 0.06 maximum; 100µF – 0.08 maximum • **Solder Heat Resistance:** The capacitor shall withstand dipping into solder bath for 5 ±1 seconds at 260 ±5°C • **Moisture Resistance:** Capacitor shall be tested for 500 hours at 40°C and 90-95% R.H. without load. After the test, capacitor shall meet the following limits.

W.V. (D.C.)	Cap. (µF)	EIA Size	Size Code	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
6.3	10	A	Y	PCS1106CT-ND	.23	.20	.16	PCS1106TR-ND	2,000	90.00/M	ECS-TOJY106R
10	2.2	A	Y	PCS2225CT-ND	.22	.19	.15	PCS2225TR-ND	2,000	85.00/M	ECS-T1AY225R
	4.7	A	Y	PCS2475CT-ND	.23	.20	.16	PCS2475TR-ND	2,000	88.00/M	ECS-T1AY475R
	47	D	D	PCS2476CT-ND	.85	.75	.59	PCS2476TR-ND	750	267.75	ECS-T1AD476R
16	22	C	C	P11317CT-ND	.63	.55	.43	P11317TR-ND	750	195.75	ECS-T1CC226R
20	0.68	A	Y	PCS4684CT-ND	.22	.19	.15	PCS4684TR-ND	2,000	85.00/M	ECS-T1DY684R
	15	D	D	PCS4156CT-ND	.84	.74	.58	PCS4156TR-ND	750	263.25	ECS-T1DD156R
25	4.7	B	X	P11330CT-ND	.31	.27	.21	P11330TR-ND	2,000	120.00/M	ECS-T1EX475R
	4.7	C	C	PCS5475CT-ND	.56	.49	.39	PCS5475TR-ND	750	175.50	ECS-T1EC475R
	10	C	C	P11331CT-ND	.63	.55	.43	P11331TR-ND	750	195.75	ECS-T1EC106R
35	.33	A	Y	PCS6334CT-ND	.25	.22	.17	PCS6334TR-ND	2,000	95.00/M	ECS-T1VY334R
	6.8	C	C	P11334CT-ND	.63	.55	.43	P11334TR-ND	750	195.75	ECS-T1VC685R

TES Series Tantalum Electrolytic Chip Capacitors

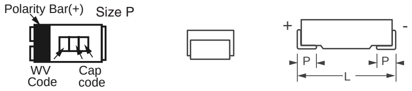

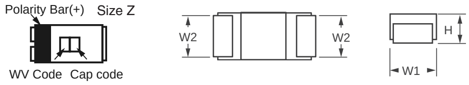

Characteristics at High and Low Temperature:

Size Code	L ± 0.2	W1 ± 0.2	H max.	P	W2 ± 0.1
Z	2.0	1.25	1.2	0.5 ± 0.2	0.9
P	3.2	1.6	1.2	0.8 ± 0.3	1.2

Features:

- Ultra miniature sizes
- Low profile 1.2mm maximum height

Specifications:

• **Operating Temperature Range:** -55°C ~ 125°C • **Rated Working Voltage Range:** 2.5 ~ 20VDC • **Nominal Capacitance Range:** 0.1 ~ 4.7 µF • **Capacitance Tolerance:** ±20% (120Hz, 20°) • **Leakage Current:** I ≤ 0.01CV or 0.5 (µA), whichever is greater measured after 2 minutes application of rated working voltage at 20°C • **tan δ:** 0.04 maximum for ≤ 3.3µF, 0.08 maximum for 2.5W.V., 0.10 maximum for Z size

W.V. (D.C.)	Cap. (µF)	Size Code	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape and Reel Pricing 3,000	6,000	Panasonic Part No.
4	2.2	P	PCS0255BCT-ND	.74	.65	.51	—	—	—	ECS-T0GP225R
	3.3	P	PCS0335BCT-ND	.74	.65	.51	—	—	—	ECS-T0GP335R
10	1.0	Z	PCS2105CCT-ND	.33	.29	.23	PCS2105CTR-ND	130.00/M	123.00/M	ECS-T1AZ105R
	4.7	Z	P11340CT-ND	.75	.66	.52	P11340TR-ND	296.00/M	279.00/M	ECS-T1AZ475R
16	0.68	P	PCS3684BCT-ND	.74	.65	.51	—	—	—	ECS-T1CP684R
	0.68	Z	PCS3684CCT-ND	.35	.30	.24	—	—	—	ECS-T1CZ684R
	1.0	P	PCS3105BCT-ND	.84	.74	.58	—	—	—	ECS-T1CP105R
20	0.15	P	PCS4154BCT-ND	.74	.65	.51	PCS4154BTR-ND	292.00/M	275.00/M	ECS-T1DP154R
	0.68	P	PCS4684BCT-ND	.74	.65	.51	—	—	—	ECS-T1DP684R

TEH Series Resin Molded Chip Tantalum Electrolytic Capacitors

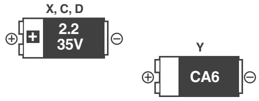

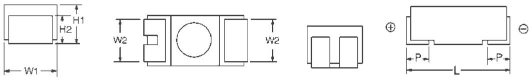

Dimensions (mm)

EIA Size	Size Code	L ±0.2	W_1 ±0.2	W_2 ±0.1	H_1 ±0.2	H_2 Typ.	P ±0.3
A	Y	3.2	1.6	1.2	1.6	1.0	0.8
B	X	3.5	2.8	2.2	1.9	1.2	0.8
C	C	6.0	3.2	2.2	2.5	1.5	1.3
D	D	7.3	4.3	2.4	2.8	1.6	1.3

Specifications:

- **Operating Temperature Range:** -55 ~ 125°C
- **Rated Working Voltage Range:** 10 ~ 35V
- **Rated Capacitance Range:** .1µF ~ 68µF
- **Capacitance Tolerance:** ±20% at 120Hz, 20°C
- **DC Leakage Current:** I = 0.01CV or 0.5µA maximum, whichever is greater. DC leakage current shall be measured after 2 minutes application of rated working voltage at 20°C.
- **tan δ:** less than 3.3µF — 0.04 maximum; 4.7 ~ 68µF — 0.06 maximum
- **Stability at Low and High Temperature**

W.V. (D.C.)	Cap. (µF)	EIA Size	Size Code	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape and Reel Pricing 2,000	4,000	6,000	Panasonic Part No.
10	4.7	B	X	PCT2475CT-ND	2.91	25.46	PCT2475TR-ND	115.00/M	110.00/M	109.00/M	ECS-H1AX475R
	15	C	C	PCT2156CT-ND	6.02	52.59	—	—	—	—	ECS-H1AC156R
20	0.68	A	Y	PCT4684CT-ND	2.41	21.05	—	—	—	—	ECS-H1DY684R
25	1.5	B	X	PCT5155CT-ND	3.11	27.13	PCT5155TR-ND	123.00/M	117.00/M	116.00/M	ECS-H1EX155R
35	.15	A	Y	PCT6154CT-ND	2.41	21.05	—	—	—	—	ECS-H1VY154R
	.47	B	X	PCT6474CT-ND	3.11	27.13	PCT6474TR-ND	123.00/M	117.00/M	116.00/M	ECS-H1VX474R
	1.0	B	X	PCT6105CT-ND	3.11	27.13	PCT6105TR-ND	123.00/M	117.00/M	116.00/M	ECS-H1VX105R
	3.3	D	D	PCT6335CT-ND	8.75	76.42	—	—	—	—	ECS-H1VD335R

AVX

TAP Series

Dipped Radial Tantalum Capacitors

TAP is a professional grade device manufactured with a flame retardant coating and featuring low leakage current and impedance, very small physical sizes and exceptional temperature stability. • **Capacitance Tolerance:** 10% • **Temperature Range:** -55°C ~ 125°C

2.5mm LS Style

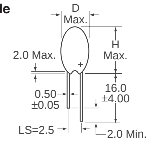

5.0mm LS Style

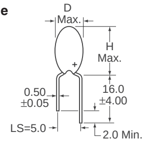

Cap. (µF)	Dimensions (mm)			DF % Max.	DCL (µA) Max.	ESR Max. (Ω)@ 100kHz	Digi-Key Part No.	Price Each			AVX Part No.
	D	H	LS					1	10	100	
6.3 Volt @ 85°C (4 Volt @ 125°C)											
3.3	4.50	7.00	2.5	6	0.5	13.0	478-1885-ND	.46	.40	.32	TAP335K006SCS
4.7	4.50	7.00	2.5	6	0.5	10.0	478-1902-ND	.46	.40	.32	TAP475K006SCS
6.8	4.50	7.00	2.5	6	0.5	8.0	478-1917-ND	.46	.40	.32	TAP685K006SCS
10	4.50	7.50	2.5	8	0.5	6.0	478-1837-ND	.58	.50	.39	TAP106K006SCS
15	5.00	8.50	2.5	8	0.8	5.0	478-1855-ND	.65	.56	.44	TAP156K006SCS
22	5.00	9.00	2.5	8	1.1	3.7	478-1873-ND	.65	.56	.44	TAP226K006SCS
33	5.50	9.00	2.5	8	1.7	3.0	478-1892-ND	.82	.71	.56	TAP336K006SCS
47	6.00	10.00	2.5	8	2.4	2.0	478-1909-ND	.91	.78	.62	TAP476K006SCS
68	6.50	10.00	2.5	8	3.4	1.8	478-1924-ND	1.09	.93	.73	TAP686K006SCS
100	7.00	10.5	2.5	10	5.0	1.6	478-1844-ND	2.59	2.22	1.74	TAP107K006SCS
150	8.50	12.5	5.0	10	7.6	0.9	478-1862-ND	3.26	2.79	2.19	TAP157K006CCS
220	9.00	13.0	5.0	10	11.0	0.9	478-1880-ND	6.51	5.58	4.38	TAP227K006CCS
330	10.0	17.0	5.0	10	16.6	0.7	478-1898-ND	8.12	6.96	5.46	TAP337K006CCS
10 Volt @ 85°C (6.3 Volt @ 125°C)											
2.2	4.50	7.00	2.5	6	0.5	13.0	478-1867-ND	.46	.40	.32	TAP225K010SCS
3.3	4.50	7.00	2.5	6	0.5	10.0	478-1886-ND	.46	.40	.32	TAP335K010SCS
4.7	4.50	7.00	2.5	6	0.5	8.0	478-1903-ND	.46	.40	.32	TAP475K010SCS
6.8	4.50	7.50	2.5	6	0.5	6.0	478-1918-ND	.58	.50	.39	TAP685K010SCS
10	5.00	8.50	2.5	8	0.8	5.0	478-1838-ND	.65	.56	.44	TAP106K010SCS
15	5.00	9.00	2.5	8	1.2	3.7	478-1856-ND	.65	.56	.44	TAP156K010SCS
22	5.50	9.00	2.5	8	1.7	2.7	478-1874-ND	.81	.69	.55	TAP226K010SCS
33	6.00	10.0	2.5	8	2.6	2.1	478-1893-ND	.95	.81	.64	TAP336K010SCS
47	6.50	10.0	2.5	8	3.7	1.7	478-1910-ND	1.68	1.44	1.13	TAP476K010SCS
68	7.00	10.5	2.5	8	5.4	1.3	478-1925-ND	2.59	2.22	1.74	TAP686K010SCS
100	8.50	12.5	2.5	10	8.0	1.0	478-1845-ND	3.26	2.79	2.19	TAP107K010SCS
150	9.00	16.0	5.0	10	12.0	0.8	478-1863-ND	6.51	5.58	4.38	TAP157K010CCS
220	10.0	17.0	5.0	10	17.6	0.6	478-1881-ND	8.12	6.96	5.46	TAP227K010CCS
330	10.0	18.5	5.0	10	20.0	0.5	478-1899-ND	8.12	6.96	5.46	TAP337K010CCS
16 Volt @ 85°C (10 Volt @ 125°C)											
1.5	4.50	7.00	2.5	4	0.5	10.0	478-1850-ND	.46	.40	.32	TAP155K016SCS
2.2	4.50	7.00	2.5	6	0.5	8.0	478-1868-ND	.44	.38	.30	TAP225K016SCS
3.3	4.50	7.00	2.5	6	0.5	6.0	478-1887-ND	.44	.38	.30	TAP335K016SCS
4.7	4.50	7.50	2.5	6	0.6	5.0	478-1904-ND	.55	.47	.37	TAP475K016SCS
6.8	5.00	8.50	2.5	6	0.8	4.0	478-1919-ND	.65	.56	.44	TAP685K016SCS
10	5.00	9.00	5.0	8	1.2	3.2	478-1839-ND	.67	.57	.45	TAP106K016SCS
15	5.50	9.00	2.5	8	1.9	2.5	478-1857-ND	.88	.75	.59	TAP156K016SCS
22	6.00	10.0	2.5	8	2.8	2.0	478-1875-ND	.88	.75	.59	TAP226K016SCS
33	6.00	10.0	2.5	8	4.2	1.6	478-1894-ND	1.75	1.50	1.18	TAP336K016SCS
47	8.00	11.5	2.5	8	6.0	1.3	478-1911-ND	2.75	2.36	1.85	TAP476K016SCS
68	9.00	12.5	2.5	8	8.7	1.0	478-1926-ND	3.33	2.85	2.24	TAP686K016SCS
100	9.00	16.0	5.0	10	12.8	0.8	478-1846-ND	7.00	6.00	4.70	TAP107K016CCS
150	9.00	16.0	5.0	10	19.2	0.6	478-1864-ND	8.05	6.90	5.41	TAP157K016CCS
220	10.0	18.5	5.0	10	20.0	0.5	478-1882-ND	9.91	8.49	6.66	TAP227K016CCS
20 Volt @ 85°C (13 Volt @ 125°C)											
1.0	4.50	7.00	2.5	4	0.5	10.0	478-1833-ND	.46	.40	.32	TAP105K020SCS
1.5	4.50	7.00	2.5	4	0.5	9.0	478-1851-ND	.46	.40	.32	TAP155K020SCS
2.2	4.50	7.00	2.5	6	0.5	7.0	478-1869-ND	.46	.40	.32	TAP225K020SCS
3.3	4.50	7.50	2.5	6	0.5	5.5	478-1888-ND	.58	.50	.39	TAP335K020SCS
4.7	5.00	8.50	2.5	6	0.7	4.5	478-1905-ND	.65	.56	.44	TAP475K020SCS
6.8	5.00	9.00	2.5	6	1.0	3.6	478-1920-ND	.65	.56	.44	TAP685K020SCS
10	5.50	9.00	2.5	8	1.6	2.9	478-1840-ND	.88	.75	.59	TAP106K020SCS
15	6.00	10.0	2.5	8	2.4	2.3	478-1858-ND	.95	.81	.64	TAP156K020SCS
20 Volt @ 85°C (13 Volt @ 125°C) (Cont.)											
22	7.00	10.5	2.5	8	3.5	1.8	478-1876-ND	1.75	1.50	1.18	TAP226K020SCS
33	8.00	11.5	2.5	8	5.2	1.4	478-1895-ND	2.52	2.16	1.70	TAP336K020SCS
47	8.50	12.5	2.5	8	7.5	1.2	478-1912-ND	3.12	2.67	2.10	TAP476K020SCS
68	9.00	16.0	5.0	8	10.8	0.9	478-1927-ND	7.07	6.06	4.75	TAP686K020CCS
100	9.00	16.0	5.0	10	16.0	0.6	478-1847-ND	8.09	6.93	5.43	TAP107K020CCS
25 Volt @ 85°C (16 Volt @ 125°C)											
1.0	4.50	7.00	2.5	4	0.5	10.0	478-1834-ND	.46	.40	.32	TAP105K025SCS
1.5	4.50	7.00	2.5	4	0.5	8.0	478-1852-ND	.46	.40	.32	TAP155K025SCS
2.2	4.50	7.00	2.5	6	0.5	6.0	478-1870-ND	.46	.40	.32	TAP225K025SCS
3.3	4.50	7.50	2.5	6	0.6	5.0	478-1889-ND	.58	.50	.39	TAP335K025SCS
4.7	5.00	8.50	2.5	6	0.9	4.0	478-1906-ND	.65	.56	.44	TAP475K025SCS
6.8	5.00	9.00	2.5	6	1.3	3.1	478-1921-ND	.65	.56	.44	TAP685K025SCS
10	5.50	9.00	2.5	8	2.0	2.5	478-1841-ND	.74	.63	.50	TAP106K025SCS
15	6.00	10.00	2.5	8	3.0	2.0	478-1859-ND	1.98	1.70	1.33	TAP156K025SCS
22	7.00	10.5	2.5	8	4.4	1.5	478-1877-ND	2.45	2.10	1.65	TAP226K025SCS
33	8.00	11.5	2.5	8	6.6	1.2	478-1896-ND	3.27	2.81	2.20	TAP336K025SCS
47	9.00	13.0	2.5	8	9.4	1.0	478-1913-ND	5.01	4.29	3.37	TAP476K025SCS
68	9.00	16.0	5.0	8	13.6	0.8	478-1928-ND	8.12	6.96	5.46	TAP686K025CCS
35 Volt @ 85°C (23 Volt @ 125°C)											
0.1	4.50	7.00	2.5	4	0.5	26.0	478-1831-ND	.46	.40	.32	TAP104K035SCS
0.15	4.50	7.00	2.5	4	0.5	21.0	478-1848-ND	.46	.40	.32	TAP154K035SCS
0.22	4.50	7.00	2.5	4	0.5	17.0	478-1865-ND	.46	.40	.32	TAP224K035SCS
0.33	4.50	7.00	2.5	4	0.5	15.0	478-1883-ND	.46	.40	.32	TAP334K035SCS
0.47	4.50	7.00	2.5	4	0.5	13.0	478-1900-ND	.46	.40	.32	TAP474K035SCS
0.68	4.50	7.00	2.5	4	0.5	10.0	478-1915-ND	.46	.40	.32	TAP684K035SCS
1.0	4.50	7.00	2.5	4	0.5	8.0	478-1835-ND	.46	.39	.31	TAP105K035SCS
1.5	4.50	7.00	2.5	4	0.5	6.0	478-1853-ND	.46	.40	.32	TAP155K035SCS
2.2	4.50	7.50	2.5	6	0.6	5.0	478-1871-ND	.53	.45	.36	TAP225K035SCS
3.3	5.00	8.50	2.5	6	0.9	4.0	478-1890-ND	.65	.56	.44	TAP335K035SCS
4.7	5.50	9.00	2.5	6	1.3	3.0	478-1907-ND	.77	.66	.52	TAP475K035SCS
6.8	6.00	10.0	2.5	6	1.9	2.5	478-1922-ND	.89	.77	.60	TAP685K035SCS
10	6.00	10.0	2.5	8	2.8	2.0	478-1842-ND	1.49	1.28	1.00	TAP106K035SCS
15	7.00	10.5	2.5	8	4.2	1.6	478-1860-ND	3.12	2.67	2.10	TAP156K035SCS
22	8.50	12.5	2.5	8	6.1	1.3	478-1878-ND	2.96	2.54	1.99	TAP226K035SCS
33	9.00	13.0	5.0	8	9.2	1.0	478-1897-ND	5.43	4.65	3.65	TAP336K035CCS
47	9.00	16.0	5.0	8	10.0	0.8	478-1914-ND	8.12	6.96	5.46	TAP476K035CCS
50 Volt @ 85°C (33 Volt @ 125°C)											
0.1	4.50	7.00	2.5	4	0.5	26.0	478-1832-ND	.52	.45	.35	TAP104K050SCS
0.15	4.50	7.00	2.5	4	0.5	21.0	478-1849-ND	.48	.42	.33	TAP154K050SCS
0.22	4.50	7.00	2.5	4	0.5	17.0	478-1866-ND	.52	.45	.35	TAP224K050SCS
0.33	4.50	7.00	2.5	4	0.5	15.0	478-1884-ND	.52	.45	.35	TAP334K050SCS
0.47	4.50	7.00	2.5	4	0.5	13.0	478-1901-ND	.52	.45	.35	TAP474K050SCS
0.68	4.50	7.50	2.5	4	0.5	10.0	478-1916-ND	.58	.50	.39	TAP684K050SCS
1.0	5.00	8.50	2.5	4	0.5	8.0	478-1836-ND	.58	.50	.39	TAP105K050SCS
1.5	5.00	9.00	2.5	4	0.6	6.0	478-1854-ND	.88	.75	.59	TAP155K050SCS
2.2	5.50	9.00	2.5	6	0.8	3.5	478-1872-ND	.93	.80	.63	TAP225K050SCS
3.3	6.00	10.0	2.5	6	1.3	3.0	478-1891-ND	1.02	.87	.69	TAP335K050SCS
4.7	6.50	10.0	2.5	6	1.8	2.5	478-1908-ND	1.28	1.10	.86	TAP475K050SCS
6.8	7.00	10.5	2.5	6	2.7	2.0	478-1923-ND	3.01	2.58	2.03	TAP685K050SCS
10	8.00	11.5	2.5	8	4.0	1.6	478-1843-ND	5.25	4.50	3.53	TAP106K050SCS
15	8.50	12.5	5.0	8	6.0	1.2	478-1861-ND	5.78	4.95	3.88	TAP156K050CCS
22	9.00	12.5	5.0	8	8.8	1.0	478-1879-ND	9.45	8.10	6.35	TAP226K050CCS

TAJ Series

Standard Surface Mount Tantalum Capacitors

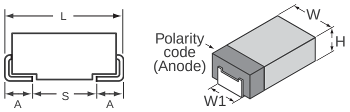

The TAJ standard series encompasses the sizes recognized by major OEMs throughout the world

- **Temperature Range:** -55°C ~ 85°C rated voltage and up to 125°C with voltage derating in applications utilizing recommended series resistance

Case Size	EIA Code	Dimensions (mm) L	W	H	W_1	A	S (Min.)
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.80
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
P	2012-15	2.05	1.35	1.50	1.00	0.50	.85
R	2012-12	2.05	1.30	1.20	1.00	0.50	.70

Case Size	EIA Code	Dimensions (mm) L	W	H	W_1	A	S (Min.)
S	3216-12	3.20	1.60	1.20	1.20	0.80	1.10
T	3528-12	3.50	2.80	1.20	2.20	0.80	2.00
V	7361-38	7.30	6.10	3.45	3.10	1.40	4.40
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90
Y	7343-20	7.30	4.30	2.00	2.40	1.30	4.40
X	7343-15	7.30	4.30	1.50	2.40	1.30	4.40

Rated Voltage (V)	Capaci-tance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ@100kHz)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	AVX Part No.
2.5	47	10	A	6	0.9	3000	478-3268-1-ND†	.83	.72	.63	478-3268-2-ND†	2,000	281.00/M	TAJA476K002R
	220	10	B	16	4.4	1600	478-3269-1-ND†	1.00	.87	.76	478-3269-2-ND†	2,000	340.00/M	TAJB227K002R
4	2.2	20	R	6	0.5	25000	478-3053-1-ND†	1.08	.94	.83	478-3053-2-ND†	2,500	367.00/M	TAJR225M004R
	22	20	R	8	0.9	3800	478-3055-1-ND†	1.08	.94	.83	478-3055-2-ND†	2,500	367.00/M	TAJR226M004R
	33	10	A	6	1.3	3000	478-1665-1-ND	.50	.44	.38	478-1665-2-ND	2,000	170.00/M	TAJA336K004R
	47	10	A	8	1.9	2600	478-1669-1-ND	.50	.44	.38	478-1669-2-ND	2,000	170.00/M	TAJA476K004R
	68	10	B	6	2.7	1800	478-2344-1-ND	.65	.57	.50	478-2344-2-ND	2,000	221.00/M	TAJB686K004R
	100	10	B	8	4	900	478-1676-1-ND	1.15	1.01	.88	478-1676-2-ND	2,000	391.00/M	TAJB107K004R
	150	10	B	8	6	1500	478-2345-1-ND	1.00	.87	.76	478-2345-2-ND	2,000	340.00/M	TAJB157K004R
	220	10	C	8	8.8	1200	478-2346-1-ND	2.35	2.05	1.79	478-2346-2-ND	500	399.50	TAJC227K004R
	220	10	D	8	8.8	900	478-3064-1-ND†	1.89	1.65	1.44	478-3064-2-ND†	500	344.00	TAJD227K004R
	330	10	C	8	13.2	900	478-2347-1-ND	2.43	2.11	1.85	478-2347-2-ND	500	412.50	TAJC337K004R
	330	10	D	8	13.2	900	478-3065-1-ND†	2.16	1.88	1.65	478-3065-2-ND†	500	393.00	TAJD337K004R
	470	10	D	12	18.8	900	478-3066-1-ND†	3.35	2.92	2.55	478-3066-2-ND†	500	610.00	TAJD477K004R
	470	10	E	10	18.8	500	478-3271-1-ND†	7.00	6.09	5.32	478-3271-2-ND†	400	1019.20	TAJE477K004R
	680	10	D	14	27.2	500	478-3067-1-ND†	3.65	3.18	2.78	478-3067-2-ND†	500	663.50	TAJD687K004R
	1000	10	E	14	40	400	478-2348-1-ND	10.75	9.36	8.17	478-2348-2-ND	400	1462.00	TAJE108K004R
6.3	1.5	20	R	6	0.5	2000	478-3052-1-ND†	1.08	.94	.83	478-3052-2-ND†	2,500	367.00/M	TAJR155M006R
	3.3	20	A	6	0.5	6000	478-3029-1-ND†	.37	.33	.29	478-3029-2-ND†	2,000	125.00/M	TAJA335M006R
	4.7	20	A	6	0.5	5000	478-3031-1-ND†	.38	.33	.29	478-3031-2-ND†	2,000	128.00/M	TAJA475M006R
	4.7	10	R	6	0.5	700	478-3272-1-ND†	1.10	.96	.84	478-3272-2-ND†	2,500	374.00/M	TAJR475K006R
	6.8	20	B	6	0.7	3000	478-3045-1-ND†	.50	.44	.39	478-3045-2-ND†	2,000	171.00/M	TAJB685M006R
	10	10	A	6	0.6	4000	478-1653-1-ND	.40	.35	.31	478-1653-2-ND	2,000	136.00/M	TAJA106K006R
	10	20	A	6	0.6	4000	478-1656-1-ND	.38	.33	.29	478-1656-2-ND	2,000	128.00/M	TAJA106M006R
	10	20	R	8	0.6	6000	478-3051-1-ND†	1.08	.94	.83	478-3051-2-ND†	2,500	367.00/M	TAJR106M006R
	10	10	R	8	0.6	6000	478-3273-1-ND†	1.10	.96	.84	478-3273-2-ND†	2,500	374.00/M	TAJR106K006R
	15	10	P	8	0.9	3500	478-3274-1-ND†	1.20	1.05	.92	478-3274-2-ND†	2,500	408.00/M	TAJP156K006R
	15	10	S	8	0.9	4000	478-3275-1-ND†	1.20	1.05	.92	478-3275-2-ND†	2,500	408.00/M	TAJS156K006R
	15	20	A	6	0.9	3500	478-3026-1-ND†	.45	.40	.35	478-3026-2-ND†	2,000	153.00/M	TAJA156M006R
	22	20	A	6	1.4	3000	478-3028-1-ND†	.51	.45	.39	478-3028-2-ND†	2,000	173.00/M	TAJA226M006R
	22	10	B	6	1.4	2500	478-1681-1-ND	.53	.47	.41	478-1681-2-ND	2,000	181.00/M	TAJB226K006R
	33	10	A	8	2.1	2500	478-1666-1-ND	.63	.55	.48	478-1666-2-ND	2,000	213.00/M	TAJA336K006R
	33	20	A	8	2.1	2500	478-1667-1-ND	.63	.55	.48	478-1667-2-ND	2,000	213.00/M	TAJA336M006R
	47	10	T	10	2.8	1600	478-3276-1-ND†	1.40	1.22	1.07	478-3276-2-ND†	2,500	476.00/M	TAJT476K006R
	47	10	B	6	3	2000	478-1692-1-ND	.65	.57	.50	478-1692-2-ND	2,000	221.00/M	TAJB476K006R
	68	10	B	8	4	900	478-1696-1-ND	.75	.66	.57	478-1696-2-ND	2,000	255.00/M	TAJB686K006R
	100	10	B	10	6.3	1700	478-1677-1-ND	1.25	1.09	.95	478-1677-2-ND	2,000	425.00/M	TAJB107K006R
	100	10	C	6	6.3	900	478-1703-1-ND	1.20	1.05	.92	478-1703-2-ND	500	218.50	TAJC107K006R
	150	10	C	6	9.5	1300	478-1709-1-ND	1.95	1.70	1.49	478-1709-2-ND	500	355.00	TAJC157K006R
	220	10	C	8	13.9	1200	478-1713-1-ND	2.10	1.83	1.60	478-1713-2-ND	500	382.00	TAJC227K006R
	330	10	Y	8	20.8	900	478-3277-1-ND†	3.00	2.61	2.28	478-3277-2-ND†	1,000	1092.00	TAJY337K006R
	470	10	D	12	28	400	478-1741-1-ND	3.15	2.75	2.40	478-1741-2-ND	500	573.50	TAJD477K006R
	680	10	E	10	42.8	500	478-2349-1-ND	8.70	7.57	6.62	478-2349-2-ND	400	1183.20	TAJE687K006R
10	1.0	10	R	4	0.5	25000	478-3278-1-ND†	1.10	.96	.84	478-3278-2-ND†	2,500	374.00/M	TAJR105K010R
	1.0	20	R	4	0.5	25000	478-3049-1-ND†	1.08	.94	.83	478-3049-2-ND†	2,500	367.00/M	TAJR105M010R
	2.2	20	A	6	0.5	7000	478-3027-1-ND†	.48	.42	.37	478-3027-2-ND†	2,000	162.00/M	TAJA225M010R
	2.2	20	R	6	0.5	15000	478-3054-1-ND†	1.08	.94	.83	478-3054-2-ND†	2,500	367.00/M	TAJR225M010R
	3.3	10	S	6	0.5	800	478-3279-1-ND†	1.20	1.05	.92	478-3279-2-ND†	2,500	408.00/M	TAJS335K010R
	3.3	20	A	6	0.5	5500	478-3030-1-ND†	.38	.34	.29	478-3030-2-ND†	2,000	130.00/M	TAJA335M010R
	3.3	20	R	6	0.5	8000	478-3056-1-ND†	1.08	.94	.83	478-3056-2-ND†	2,500	367.00/M	TAJR335M010R
	4.7	10	A	6	0.5	5000	478-2350-1-ND	.43	.37	.33	478-2350-2-ND	2,000	145.00/M	TAJA475K010R
	4.7	10	R	6	0.5	9000	478-3280-1-ND†	1.10	.96	.84	478-3280-2-ND†	2,500	374.00/M	TAJR475K010R
	4.7	20	B	6	0.5	4000	478-3042-1-ND†	.50	.44	.39	478-3042-2-ND†	2,000	171.00/M	TAJB475M010R
	4.7	20	R	6	0.5	9000	478-3057-1-ND†	1.08	.94	.83	478-3057-2-ND†	2,500	367.00/M	TAJR475M010R
	6.8	10	A	6	0.7	4000	478-2351-1-ND	.45	.40	.35	478-2351-2-ND	2,000	153.00/M	TAJA685K010R
	10	10	A	6	1	3000	478-1654-1-ND	.43	.37	.33	478-1654-2-ND	2,000	145.00/M	TAJA106K010R
	10	20	P	8	1	6000	478-3281-1-ND†	1.18	1.03	.90	478-3281-2-ND†	2,500	400.00/M	TAJP106M010R
	10	20	A	6	1	3000	478-1657-1-ND	.40	.35	.31	478-1657-2-ND	2,000	136.00/M	TAJA106M010R
	10	10	B	6	1	2500	478-1672-1-ND	.53	.46	.40	478-1672-2-ND	2,000	179.00/M	TAJB106K010R
	15	20	B	6	1.5	2800	478-3035-1-ND†	.53	.47	.41	478-3035-2-ND†	2,000	181.00/M	TAJB156M010R
	15	10	A	6	1.5	3200	478-1660-1-ND	.50	.44	.38	478-1660-2-ND	2,000	170.00/M	TAJA156K010R
	15	10	B	6	1.5	2800	478-3068-1-ND†	.90	.79	.69	478-3068-2-ND†	2,000	306.00/M	TAJB156K010R
	15	20	A	6	1.5	3200	478-1661-1-ND	.50	.44	.38	478-1661-2-ND	2,000	162.00/M	TAJA156M010R
	22	10	A	8	2.2	3000	478-1663-1-ND	.50	.44	.38	478-1663-2-ND	2,000	170.00/M	TAJA226K010R
	22	10	B	6	2.2	2400	478-3039-1-ND†	.55	.48	.42	478-3039-2-ND†	2,000	187.00/M	TAJB226K010R
	22	20	B	6	2.2	2400	478-3040-1-ND†	.60	.53	.46	478-3040-2-ND†	2,000	204.00/M	TAJB226M010R
	33	10	B	6	3.3	1800	478-1687-1-ND	1.15	1.01	.88	478-1687-2-ND	2,000	391.00/M	TAJB336K010R
	33	20	D	6	3.3	1100	478-3047-1-ND†	1.57	1.37	1.20	478-3047-2-ND†	500	285.50	TAJD336M010R
	47	10	W	6	4.7	1400	478-3282-1-ND†	2.25	1.96	1.71	478-3282-2-ND†	1,000	819.00	TAJW476K010R
	47	10	D	6	4.7	400	478-3048-1-ND†	.83	.72	.63	478-3048-2-ND†	500	150.00	TAJD476K010R
	68	10	B	6	6.8	1400	478-3069-1-ND†	.83	.73	.64	478-3069-2-ND†	2,000	283.00/M	TAJB686K010R
	68	10	C	6	6.8	1300	478-1721-1-ND	1.25	1.09	.95	478-1721-2-ND	500	227.50	TAJC686K010R
	100	10	C	8	10	1200	478-1704-1-ND	1.25	1.09	.95	478-1704-2-ND	500	227.50	TAJC107K010R
	100	10	X	8	10	900	478-3283-1-ND†	2.60	2.27	1.98	478-3283-2-ND†	1,000	946.00	TAJX107K010R
	100	10	D	6	10	900	478-3355-1-ND†	1.95	1.70	1.49	478-3355-2-ND†	1,000	690.00	TAJD107K010R
	150	10	C	8	15	900	478-2352-1-ND	2.25	1.96	1.71	478-2352-2-ND	500	382.50	TAJC157K010R
	150	10	D	6	15	900	478-2343-1-ND	2.65	2.31	2.02	478-2343-2-ND	500	450.50	TAJD157K010R
	220	10	D	8	22	500	478-1731-1-ND	2.65	2.31	2.02	478-1731-2-ND	500	482.50	TAJD227K010R
	220	10	Y	10	22	500	478-3284-1-ND†	3.00	2.61	2.28	478-3284-2-ND†	1,000	1092.00	TAJY227K010R
	330	10	D	8	33	900	478-1736-1-ND	4.80	4.18	3.65	478-1736-2-ND	500	873.50	TAJD337K010R
	330	10	E	8	33	900	478-1748-1-ND	5.25	4.57	3.99	478-1748-2-ND	400	764.40	TAJE337K010R
	470	10	E	10	47	500	478-1749-1-ND	7.10	6.18	5.40	478-1749-2-ND	400	1033.60	TAJE477K010R
16	.68	20	R	4	0.5	25000	478-3058-1-ND†	1.08	.94	.83	478-3058-2-ND†	2,500	367.00/M	TAJR684M016R
	1	10	A	4	0.5	11000	478-1649-1-ND	.44	.39	.34	478-1649-2-ND	2,000	150.00/M	TAJA105K016R
	1	20	A	4	0.5	11000	478-1652-1-ND	.39	.34	.30	478-1652-2-ND	2,000	133.00/M	TAJA105M016R
	1	20	R	4	0.5	20000	478-3050-1-ND†	1.08	.94	.83	478-3050-2-ND†	2,500	367.00/M	TAJR105M016R
	1.5	20	A	6	0.5	8000	478-3025-1-ND†	.48	.42	.37	478-3025-2-ND†	2,000	162.00/M	TAJA155M016R

† ***RoHS Compliant***

(Continued)

AVX TAJ Series Standard Surface Mount Tantalum Capacitors *(Cont.)*

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Size	Pricing	
16	2.2	10	A	6	0.5	6500	478-2353-1-ND	.43	.37	.33	478-2353-2-ND	2,000	145.00/M	TAJA225K016R
	2.2	20	B	6	0.5	5500	478-3036-1-ND†	.50	.44	.39	478-3036-2-ND†	2,000	171.00/M	TAJB255M016R
	3.3	10	A	6	0.5	5000	478-2354-1-ND	.43	.37	.33	478-2354-2-ND	2,000	145.00/M	TAJA335K016R
	3.3	10	T	6	0.5	500	478-3285-1-ND†	1.40	1.22	1.07	478-3285-2-ND†	2,500	476.00/M	TAJT335K016R
	3.3	20	B	6	0.5	4500	478-3041-1-ND†	.50	.44	.39	478-3041-2-ND†	2,000	171.00/M	TAJB335M016R
	4.7	10	B	6	0.8	3500	478-1689-1-ND	.53	.46	.40	478-1689-2-ND	2,000	179.00/M	TAJB475K016R
	4.7	20	A	6	0.8	4000	478-3032-1-ND†	.40	.35	.31	478-3032-2-ND†	2,000	136.00/M	TAJA475M016R
	6.8	10	A	6	1.1	3500	478-1670-1-ND	.48	.42	.37	478-1670-2-ND	2,000	162.00/M	TAJA685K016R
	6.8	20	B	6	1.1	2500	478-3046-1-ND†	.50	.44	.39	478-3046-2-ND†	2,000	171.00/M	TAJB685M016R
	10	10	A	8	1.6	3000	478-1655-1-ND	.50	.44	.38	478-1655-2-ND	2,000	170.00/M	TAJA106K016R
	10	10	B	6	1.6	2800	478-1673-1-ND	.55	.48	.42	478-1673-2-ND	2,000	187.00/M	TAJB106K016R
	10	20	B	6	1.6	2800	478-1675-1-ND	.53	.47	.41	478-1675-2-ND	2,000	181.00/M	TAJB106M016R
	10	10	C	6	1.6	2000	478-1698-1-ND	.48	.42	.37	478-1698-2-ND	500	86.50	TAJC106K016R
	10	20	C	6	1.6	2000	478-1702-1-ND	.40	.35	.31	478-1702-2-ND	500	73.00	TAJC106M016R
	15	10	B	6	2.4	2500	478-2355-1-ND	.60	.53	.46	478-2355-2-ND	2,000	204.00/M	TAJB156K016R
	22	10	B	6	3.5	2300	478-1682-1-ND	.55	.48	.42	478-1682-2-ND	2,000	187.00/M	TAJB226K016R
	22	20	B	6	3.5	2300	478-1684-1-ND	.55	.48	.42	478-1684-2-ND	2,000	187.00/M	TAJB226M016R
	33	10	B	8	5..3	2100	478-1688-1-ND	.95	.83	.73	478-1688-2-ND	2,000	323.00/M	TAJB336K016R
	33	10	C	6	5.3	1500	478-1715-1-ND	.63	.55	.48	478-1715-2-ND	500	114.00	TAJC336K016R
	47	10	C	6	7.5	1400	478-1718-1-ND	1.00	.87	.76	478-1718-2-ND	500	182.00	TAJC476K016R
	47	10	D	6	7.5	900	478-1739-1-ND	.83	.72	.63	478-1739-2-ND	500	150.00	TAJD476K016R
	68	10	D	6	10.9	900	478-1744-1-ND	1.60	1.40	1.22	478-1744-2-ND	500	291.00	TAJD686K016R
	68	10	C	6	10.9	1300	478-3070-1-ND†	1.62	1.41	1.24	478-3070-2-ND†	500	295.00	TAJC686K016R
	100	10	D	6	16	900	478-1723-1-ND	1.30	1.14	.99	478-1723-2-ND	500	236.50	TAJD107K016R
	150	10	D	6	24	900	478-2356-1-ND	3.25	2.83	2.47	478-2356-2-ND	500	552.50	TAJD157K016R
	220	10	E	10	35.2	500	478-2357-1-ND	8.25	7.18	6.27	478-2357-2-ND	400	1122.00	TAJE227K016R
20	.1	10	R	4	0.5	25000	478-3286-1-ND†	1.10	.96	.84	478-3286-2-ND†	2,500	374.00/M	TAJR104K020R
	.47	10	S	4	0.5	25000	478-3287-1-ND†	1.20	1.05	.92	478-3287-2-ND†	2,500	408.00/M	TAJS474K020R
	1	10	A	4	0.5	9000	478-1650-1-ND	.45	.40	.35	478-1650-2-ND	2,000	153.00/M	TAJA105K020R
	1	10	T	4	0.5	900	478-3288-1-ND†	1.40	1.22	1.07	478-3288-2-ND†	2,500	476.00/M	TAJT105K020R
	1.5	10	A	6	0.5	6500	478-1658-1-ND	.35	.31	.27	478-1658-2-ND	2,000	119.00/M	TAJA155K020R
	2.2	10	A	6	0.5	5300	478-2358-1-ND	.45	.40	.35	478-2358-2-ND	2,000	153.00/M	TAJA225K020R
	2.2	20	B	6	0.5	3500	478-3037-1-ND†	.50	.44	.39	478-3037-2-ND†	2,000	171.00/M	TAJB225M020R
	3.3	10	A	6	0.7	4500	478-1664-1-ND	.48	.42	.37	478-1664-2-ND	2,000	162.00/M	TAJA335K020R
	3.3	10	B	6	0.7	3000	478-1685-1-ND	.50	.44	.39	478-1685-2-ND	2,000	171.00/M	TAJB335K020R
	4.7	10	A	6	0.9	4000	478-1668-1-ND	.48	.42	.37	478-1668-2-ND	2,000	162.00/M	TAJA475K020R
	4.7	20	B	6	0.9	3000	478-3043-1-ND†	.50	.44	.39	478-3043-2-ND†	2,000	171.00/M	TAJB475M020R
	6.8	10	C	6	1.4	2000	478-3071-1-ND†	.50	.44	.38	478-3071-2-ND†	2,000	168.00/M	TAJC685K020R
	6.8	10	B	6	1.4	2500	478-1694-1-ND	.55	.48	.42	478-1694-2-ND	2,000	187.00/M	TAJB685K020R
	6.8	10	C	6	1.4	2000	478-1719-1-ND	.55	.48	.42	478-1719-2-ND	500	100.00	TAJC685K020R
	10	10	B	6	2	2100	478-1674-1-ND	.50	.44	.38	478-1674-2-ND	2,000	170.00/M	TAJB106K020R
	10	10	C	6	2	1900	478-1699-1-ND	.46	.40	.35	478-1699-2-ND	500	83.50	TAJC106K020R
	15	10	B	6	3	2000	478-1679-1-ND	.60	.53	.46	478-1679-2-ND	2,000	204.00/M	TAJB156K020R
	15	10	C	6	3	1700	478-1707-1-ND	.88	.77	.67	478-1707-2-ND	500	159.50	TAJC156K020R
	22	10	B	6	4.4	1800	478-1683-1-ND	.63	.55	.48	478-1683-2-ND	2,000	213.00/M	TAJB226K020R
	22	10	C	6	4.4	1600	478-1711-1-ND	1.00	.87	.76	478-1711-2-ND	500	182.00	TAJC226K020R
	33	10	C	6	6.6	1500	478-1716-1-ND	1.00	.87	.76	478-1716-2-ND	500	182.00	TAJC336K020R
	33	10	D	6	6.6	900	478-1734-1-ND	.75	.66	.57	478-1734-2-ND	500	136.50	TAJD336K020R
	47	10	C	6	9.4	900	478-2359-1-ND	1.98	1.72	1.51	478-2359-2-ND	500	336.00	TAJC476K020R
	68	10	D	6	13.6	900	478-1745-1-ND	2.30	2.01	1.75	478-1745-2-ND	500	418.50	TAJD686K020R
	100	10	D	6	20	900	478-1724-1-ND	3.25	2.83	2.47	478-1724-2-ND	500	591.50	TAJD107K020R
	100	10	E	6	20	900	478-1746-1-ND	3.08	2.68	2.34	478-1746-2-ND	400	447.60	TAJE107K020R
	150	10	E	8	30	300	478-2360-1-ND	5.49	4.78	4.18	478-2360-2-ND	400	746.80	TAJE157K020R
25	.47	10	A	4	0.5	14000	478-2339-1-ND	1.00	.87	.76	478-2339-2-ND	2,000	340.00/M	TAJA474K025R
	.68	10	A	4	0.5	10000	478-2362-1-ND	1.00	.87	.76	478-2362-2-ND	2,000	340.00/M	TAJA684K025R
	.68	20	A	4	0.5	10000	478-3033-1-ND†	1.00	.87	.76	478-3033-2-ND†	2,000	340.00/M	TAJA684M025R
	1	10	A	4	0.5	8000	478-2363-1-ND	.48	.42	.37	478-2363-2-ND	2,000	162.00/M	TAJA105K025R
	1.5	10	A	6	0.5	7500	478-2364-1-ND	.45	.40	.35	478-2364-2-ND	2,000	153.00/M	TAJA155K025R
	1.5	20	B	6	0.5	5000	478-3034-1-ND†	.50	.44	.39	478-3034-2-ND†	2,000	171.00/M	TAJB155M025R
	2.2	10	A	6	0.6	7000	478-1662-1-ND	.48	.42	.37	478-1662-2-ND	2,000	162.00/M	TAJA225K025R
	2.2	20	B	6	0.6	4500	478-3038-1-ND†	.50	.44	.39	478-3038-2-ND†	2,000	171.00/M	TAJB225M025R
	3.3	10	A	6	0.8	3700	478-3072-1-ND†	.50	.44	.38	478-3072-2-ND†	2,000	168.00/M	TAJA335K025R
	6.8	10	B	6	1.7	2800	478-1695-1-ND	.65	.57	.50	478-1695-2-ND	2,000	221.00/M	TAJB685K025R
	10	10	C	6	2.5	1800	478-1700-1-ND	.53	.46	.40	478-1700-2-ND	500	95.50	TAJC106K025R
	10	10	W	6	2.5	1800	478-3289-1-ND†	2.25	1.96	1.71	478-3289-2-ND†	1,000	819.00	TAJW106K025R
	10	10	D	6	2.5	1200	478-3354-1-ND†	1.68	1.46	1.28	478-3354-2-ND†	500	305.00	TAJD106K025R
	15	10	D	6	3.8	1000	478-1726-1-ND	.83	.72	.63	478-1726-2-ND	500	150.00	TAJD156K025R
	22	20	C	6	5.5	1400	478-1712-1-ND	1.05	.92	.80	478-1712-2-ND	500	191.00	TAJC226M025R
	22	10	D	6	5.5	900	478-1729-1-ND	.83	.72	.63	478-1729-2-ND	500	150.00	TAJD226K025R
	33	10	D	6	8.3	900	478-2366-1-ND	3.25	2.83	2.47	478-2366-2-ND	500	552.50	TAJD336K025R
	47	10	D	6	11.8	900	478-1740-1-ND	3.89	3.39	2.96	478-1740-2-ND	500	708.00	TAJD476K025R
	68	10	E	6	17	900	478-1750-1-ND	8.25	7.18	6.27	478-1750-2-ND	400	1201.20	TAJE686K025R
	100	10	V	8	25	400	478-2367-1-ND	9.25	8.05	7.03	478-2367-2-ND	400	1258.00	TAJV107K025R
35	.1	10	A	4	0.5	24000	478-2368-1-ND	1.00	.87	.76	478-2368-2-ND	2,000	340.00/M	TAJA104K035R
	.15	10	A	4	0.5	21000	478-2336-1-ND	1.00	.87	.76	478-2336-2-ND	2,000	340.00/M	TAJA154K035R
	.22	10	A	4	0.5	18000	478-2337-1-ND	1.00	.87	.76	478-2337-2-ND	2,000	340.00/M	TAJA224K035R
	.33	10	A	4	0.5	15000	478-2338-1-ND	1.00	.87	.76	478-2338-2-ND	2,000	340.00/M	TAJA334K035R
	.47	10	A	4	0.5	12000	478-2340-1-ND	1.00	.87	.76	478-2340-2-ND	2,000	340.00/M	TAJA474K035R
	.47	10	B	4	0.5	10000	478-2373-1-ND	1.50	1.31	1.14	478-2373-2-ND	2,000	510.00/M	TAJB474K035R
	.68	10	A	4	0.5	8000	478-2341-1-ND	1.00	.87	.76	478-2341-2-ND	2,000	340.00/M	TAJA684K035R
	.68	20	B	4	0.5	8000	478-3044-1-ND†	.75	.66	.57	478-3044-2-ND†	2,000	255.00/M	TAJB684M035R
	1	10	A	4	0.5	7500	478-1651-1-ND	.50	.44	.38	478-1651-2-ND	2,000	170.00/M	TAJA105K035R
	1	10	B	4	0.5	6500	478-1671-1-ND	.50	.44	.39	478-1671-2-ND	2,000	171.00/M	TAJB105K035R
	1.5	10	A	6	0.5	7500	478-1659-1-ND	.70	.61	.54	478-1659-2-ND	2,000	238.00/M	TAJA155K035R
	1.5	10	B	6	0.5	5200	478-1678-1-ND	.60	.53	.46	478-1678-2-ND	2,000	204.00/M	TAJB155K035R
	1.5	10	C	6	0.5	4500	478-1705-1-ND	.93	.81	.71	478-1705-2-ND	500	168.50	TAJC155K035R
	2.2	10	A	6	0.8	4500	478-3073-1-ND†	.90	.79	.69	478-3073-2-ND†	2,000	306.00/M	TAJA225K035R
	2.2	10	B	6	0.8	4200	478-1680-1-ND	.53	.46	.40	478-1680-2-ND	2,000	179.00/M	TAJB225K035R
	2.2	10	C	6	0.8	3500	478-1710-1-ND	.55	.48	.42	478-1710-2-ND	500	100.00	TAJC225K035R
	2.2	10	T	6	0.8	4200	478-3290-1-ND†	1.40	1.22	1.07	478-3290-2-ND†	2,500	476.00/M	TAJT225K035R
	3.3	10	B	6	1.2	3500	478-1686-1-ND	.55	.48	.42	478-1686-2-ND	2,000	187.00/M	TAJB335K035R
	3.3	10	C	6	1.2	2500	478-1714-1-ND	.53	.46	.40	478-1714-2-ND	500	95.50	TAJC335K035R
	3.3	10	D	6	1.2	2500	478-1732-1-ND	.75	.66	.57	478-1732-2-ND	500	136.50	TAJD335K035R
	4.7	10	B	6	1.2	3100	478-1691-1-ND	.65	.57	.50	478-1691-2-ND	2,000	221.00/M	TAJB475K035R
	4.7	10	C	6	1.6	2200	478-1717-1-ND	.53	.46	.40	478-1717-2-ND	500	95.50	TAJC475K035R
	4.7	10	D	6	1.6	1500	478-1737-1-ND	.83	.72	.63	478-1737-2-ND	500	150.00	TAJD475K035R
	6.8	10	C	6	2.4	1800	478-1720-1-ND	.63	.55	.48	478-1720-2-ND	500	114.00	TAJC685K035R
	6.8	10	D	6	2.4	1300	478-1742-1-ND	.83	.72	.63	478-1742-2-ND	500	150.00	TAJD685K035R
	10	10	C	6	3.5	1600	478-1701-1-ND	.95	.83	.73	478-1701-2-ND	500	173.00	TAJC106K035R
	10	10	D	6	3.5	1000	478-1722-1-ND	.88	.77	.67	478-1722-2-ND	500	159.50	TAJD106K035R
	15	10	C	6	5.3	1400	478-1708-1-ND	1.25	1.09	.95	478-1708-2-ND	500	227.50	TAJC156K035R
	15	10	D	6	5.3	900	478-1727-1-ND	1.05	.92	.80	478-1727-2-ND	500	191.00	TAJD156K035R
	22	10	D	6	7.7	900	478-1730-1-ND	1.90	1.66	1.45	478-1730-2-ND	500	346.00	TAJD226K035R

† ***RoHS Compliant***

(Continued)

AVX TAJ Series Standard Surface Mount Tantalum Capacitors *(Cont.)*

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	AVX Part No.
35	22	10	E	6	7.7	900	478-1747-1-ND	4.25	3.70	3.23	478-1747-2-ND	400	618.80	TAJE226K035R
	33	10	D	6	11.6	900	478-1735-1-ND	2.40	2.09	1.83	478-1735-2-ND	500	437.00	TAJD336K035R
	47	10	E	6	16.5	900	478-3074-1-ND†	7.43	6.46	5.65	478-3074-2-ND†	400	1081.20	TAJE476K035R
50	0.1	10	A	4	0.5	22000	478-1648-1-ND	.75	.66	.57	478-1648-2-ND	2,000	255.00/M	TAJA104K050R
	.15	10	A	4	0.5	15000	478-2375-1-ND	1.00	.87	.76	478-2375-2-ND	2,000	340.00/M	TAJA154K050R
	.22	10	A	4	0.5	18000	478-2376-1-ND	1.00	.87	.76	478-2376-2-ND	2,000	340.00/M	TAJA224K050R
	.33	10	B	4	0.5	12000	478-2377-1-ND	1.50	1.31	1.14	478-2377-2-ND	2,000	510.00/M	TAJB334K050R
	.47	10	B	4	0.7	9500	478-2378-1-ND	1.50	1.31	1.14	478-2378-2-ND	2,000	510.00/M	TAJB474K050R
	.68	10	B	4	0.5	8000	478-2379-1-ND	1.50	1.31	1.14	478-2379-2-ND	2,000	510.00/M	TAJB684K050R
	.68	10	C	4	0.5	7000	478-2342-1-ND	2.25	1.96	1.71	478-2342-2-ND	500	382.50	TAJC684K050R
	1	10	C	4	0.5	5500	478-1697-1-ND	.75	.66	.57	478-1697-2-ND	500	136.50	TAJC105K050R
	1	10	B	4	0.5	7000	478-3075-1-ND†	1.35	1.18	1.03	478-3075-2-ND†	2,000	459.00/M	TAJB105K050R
	1.5	10	C	6	0.8	4500	478-1706-1-ND	2.25	1.96	1.71	478-1706-2-ND	500	409.50	TAJC155K050R
	1.5	10	D	6	0.8	4000	478-1725-1-ND	4.60	4.01	3.50	478-1725-2-ND	500	837.00	TAJD155K050R
	2.2	10	D	6	1.1	2500	478-1728-1-ND	1.43	1.24	1.09	478-1728-2-ND	500	259.50	TAJD225K050R
	3.3	10	C	6	1.7	2500	478-3076-1-ND†	2.03	1.77	1.54	478-3076-2-ND†	500	368.50	TAJC335K050R
	3.3	10	D	6	1.7	2000	478-1733-1-ND	1.40	1.22	1.07	478-1733-2-ND	500	255.00	TAJD335K050R
	4.7	10	D	6	2.4	1400	478-1738-1-ND	1.43	1.24	1.09	478-1738-2-ND	500	259.50	TAJD475K050R
	6.8	10	D	6	3.4	1000	478-1743-1-ND	5.25	4.57	3.99	478-1743-2-ND	500	955.50	TAJD685K050R
	10	10	D	6	5	800	478-2380-1-ND	5.25	4.57	3.99	478-2380-2-ND	500	892.50	TAJD106K050R
	10	10	E	6	5	100	478-3291-1-ND†	11.25	9.79	8.55	478-3291-2-ND†	400	1638.00	TAJE106K050R
	15	10	E	6	7.5	600	478-3077-1-ND†	10.13	8.81	7.70	478-3077-2-ND†	400	1474.40	TAJE156K050R

TPS Series Low ESR Surface Mount Tantalum Capacitors

TPS surface mount products have inherently low ESR (equivalent series resistance) and are capable of higher ripple current handling, producing lower ripple voltages, less power and heat dissipation than standard product for the most efficient use of circuit power.

TPS has been designed, manufactured, and preconditioned for optimum performance in typical power supply applications.

- **Temperature Range:** -55°C ~ 125°C

Case Size	EIA Code	Dimensions (mm) L	W	H	W_1	A	S Min.
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.10
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
V	7361-38	7.30	6.10	3.45	3.10	1.40	4.40
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90

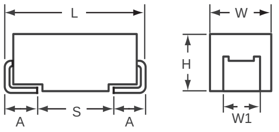

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	AVX Part No.
4	47	10	A	8	1.9	500	478-2381-1-ND	1.00	.87	.76	478-2381-2-ND	2,000	340.00/M	TPSA476K004R0500
	220	10	D	8	8.8	100	478-2382-1-ND	4.20	3.66	3.20	478-2382-2-ND	500	764.50	TPSD227K004R0100
	220	10	D	8	8.8	50	478-3310-1-ND†	4.40	3.83	3.35	478-3310-2-ND†	500	801.00	TPSD227K004R0050
	330	10	D	8	13.2	35	478-2383-1-ND	14.65	12.75	11.14	478-2383-2-ND	500	2666.50	TPSD337K004R0035
	330	10	D	8	13.2	100	478-2384-1-ND	11.40	9.92	8.67	478-2384-2-ND	500	2075.00	TPSD337K004R0100
	470	10	D	12	18.8	45	478-2385-1-ND	9.00	7.83	6.84	478-2385-2-ND	500	1638.00	TPSD477K004R0045
	680	10	D	14	27.2	100	478-2386-1-ND	12.95	11.27	9.85	478-2386-2-ND	500	2357.00	TPSD687K004R0100
	680	10	D	14	27.2	45	478-3078-1-ND†	12.24	10.65	9.31	478-3078-2-ND†	500	2227.50	TPSD687K004R0045
	1000	10	V	16	40	35	478-3311-1-ND†	19.25	16.75	14.63	478-3311-2-ND†	400	2802.80	TPSV108K004R0035
	1000	10	V	16	40	40	478-2387-1-ND	18.75	16.32	14.25	478-2387-2-ND	400	2730.00	TPSV108K004R0040
6.3	10	10	A	6	0.6	1500	478-2388-1-ND	1.00	.87	.76	478-2388-2-ND	2,000	340.00/M	TPSA106K006R1500
	22	10	A	6	1.4	900	478-1754-1-ND	.75	.66	.57	478-1754-2-ND	2,000	255.00/M	TPSA226K006R0900
	33	10	A	8	2.1	600	478-1755-1-ND	1.00	.87	.76	478-1755-2-ND	2,000	340.00/M	TPSA336K006R0600
	47	10	B	6	3	250	478-2389-1-ND	1.25	1.09	.95	478-2389-2-ND	2,000	425.00/M	TPSB476K006R0250
	47	10	A	10	2.8	800	478-3079-1-ND†	.90	.79	.69	478-3079-2-ND†	2,000	306.00/M	TPSA476K006R0800
	68	20	B	8	4.3	500	478-1761-1-ND	1.20	1.05	.92	478-1761-2-ND	2,000	408.00/M	TPSB686M006R0500
	68	10	W	6	4.3	125	478-3312-1-ND†	4.00	3.48	3.04	478-3312-2-ND†	1,000	1456.00	TPSW686K006R0125
	100	10	C	6	6.3	75	478-3313-1-ND†	3.20	2.79	2.44	478-3313-2-ND†	500	582.50	TPSC107K006R0075
	100	10	B	10	6.3	250	478-3080-1-ND†	1.13	.98	.86	478-3080-2-ND†	2,000	383.00/M	TPSB107K006R0250
	150	10	C	6	9.5	150	478-2390-1-ND	2.65	2.31	2.02	478-2390-2-ND	500	482.50	TPSC157K006R0150
	220	10	C	8	13.9	125	478-1768-1-ND	1.85	1.61	1.41	478-1768-2-ND	500	336.50	TPSC227K006R0125
	220	10	C	8	13.9	70	478-3081-1-ND†	2.16	1.88	1.65	478-3081-2-ND†	500	393.00	TPSC227K006R0070
	220	10	D	8	13.2	100	478-3362-1-ND†	4.20	3.66	3.20	478-3362-2-ND†	500	764.50	TPSD227K006R0100
	220	20	D	8	13.2	100	478-3061-1-ND†	3.50	3.05	2.66	478-3061-2-ND†	500	637.00	TPSD227M006R0100
	330	20	E	8	20.8	100	478-1804-1-ND	9.50	8.27	7.22	478-1804-2-ND	400	1383.20	TPSE337M006R0100
	330	10	D	8	20.8	45	478-3314-1-ND†	14.40	12.53	10.95	478-3314-2-ND†	500	2621.00	TPSD337K006R0045
	470	20	D	12	29.6	200	478-1791-1-ND	5.65	4.92	4.30	478-1791-2-ND	500	1028.50	TPSD477M006R0200
	470	10	D	12	29.6	45	478-3082-1-ND†	7.11	6.19	5.41	478-3082-2-ND†	500	1294.00	TPSD477K006R0045
	470	10	D	12	29.6	100	478-3315-1-ND†	7.30	6.36	5.55	478-3315-2-ND†	500	1328.50	TPSD477K006R0100
	470	10	E	10	29.6	45	478-3316-1-ND†	13.35	11.62	10.15	478-3316-2-ND†	400	1943.60	TPSD477K006R0045
	680	10	V	14	42.8	35	478-3083-1-ND†	13.73	11.95	10.44	478-3083-2-ND†	400	1998.40	TPSV687K006R0035
	680	10	E	10	42.8	45	478-1809-1-ND	14.50	12.62	11.02	478-1809-2-ND	400	2111.20	TPSE687K006R0045
10	2.2	10	A	6	0.5	1800	478-1753-1-ND	.75	.66	.57	478-1753-2-ND	2,000	255.00/M	TPSA225K010R1800
	4.7	10	A	6	0.5	1400	478-2391-1-ND	1.00	.87	.76	478-2391-2-ND	2,000	340.00/M	TPSA475K010R1400
	6.8	10	A	6	0.7	1800	478-2392-1-ND	1.00	.87	.76	478-2392-2-ND	2,000	340.00/M	TPSA685K010R1800
	10	10	A	6	1	900	478-1751-1-ND	.70	.61	.54	478-1751-2-ND	2,000	238.00/M	TPSA106K010R0900
	10	10	A	6	1	1800	478-3317-1-ND†	1.00	.87	.76	478-3317-2-ND†	2,000	340.00/M	TPSA106K010R1800
	15	10	A	6	1.5	1000	478-1752-1-ND	.75	.66	.57	478-1752-2-ND	2,000	255.00/M	TPSA156K010R1000
	22	10	B	6	2.2	700	478-3318-1-ND†	1.25	1.09	.95	478-3318-2-ND†	2,000	425.00/M	TPSB226K010R0700
	22	10	B	6	2.2	400	478-2393-1-ND	1.25	1.09	.95	478-2393-2-ND	2,000	425.00/M	TPSB226K010R0400
	33	10	B	6	3.3	425	478-1759-1-ND	1.20	1.05	.92	478-1759-2-ND	2,000	408.00/M	TPSB336K010R0425
	33	10	C	6	3.3	375	478-1770-1-ND	2.00	1.74	1.52	478-1770-2-ND	500	364.00	TPSC336K010R0375
	33	10	C	6	3.3	150	478-3319-1-ND†	2.65	2.31	2.02	478-3319-2-ND†	500	482.50	TPSC336K010R0150
	47	10	B	8	4.7	650	478-1760-1-ND	1.25	1.09	.95	478-1760-2-ND	2,000	425.00/M	TPSB476K010R0650
	47	10	B	8	4.7	250	478-3085-1-ND†	1.13	.98	.86	478-3085-2-ND†	2,000	383.00/M	TPSB476K010R0250
	47	20	C	6	4.7	350	478-3059-1-ND†	1.75	1.53	1.33	478-3059-2-ND†	500	318.50	TPSC476M010R0350
	68	10	B	8	6.8	600	478-3084-1-ND†	1.13	.98	.86	478-3084-2-ND†	2,000	383.00/M	TPSB686K010R0600
	100	10	C	8	10	75	478-3086-1-ND†	2.48	2.16	1.89	478-3086-2-ND†	500	450.50	TPSC107K010R0075
	100	10	C	8	10	200	478-3357-1-ND†	2.45	2.14	1.87	478-3357-2-ND†	500	446.00	TPSC107K010R0200
	100	10	D	6	10	50	478-3320-1-ND†	5.35	4.66	4.07	478-3320-2-ND†	500	973.50	TPSD107K010R0050
	100	10	C	8	10	100	478-1765-1-ND	1.88	1.64	1.43	478-1765-2-ND	500	341.50	TPSC107K010R0100
	100	10	D	6	10	65	478-1776-1-ND	3.90	3.40	2.97	478-1776-2-ND	500	710.00	TPSD107K010R0065
	100	10	D	6	10	100	478-1777-1-ND	2.35	2.05	1.79	478-1777-2-ND	500	427.50	TPSD107K010R0100
	100	20	D	6	10	100	478-1779-1-ND	2.35	2.05	1.79	478-1779-2-ND	500	427.50	TPSD107M010R0100
	150	10	D	6	15	50	478-3321-1-ND†	5.75	5.01	4.37	478-3321-2-ND†	500	1046.50	TPSD157K010R0050
	150	10	D	8	15	100	478-1781-1-ND	3.50	3.05	2.66	478-1781-2-ND	500	637.00	TPSD157K010R0100
	220	10	D	8	22	100	478-3322-1-ND†	8.25	7.18	6.27	478-3322-2-ND†	500	1501.50	TPSD227K010R0100
	220	10	E	8	22	50	478-3323-1-ND†	12.75	11.10	9.69	478-3323-2-ND†	400	1856.40	TPSE227K010R0050
	220	10	D	8	22	150	478-1784-1-ND	6.75	5.88	5.13	478-1784-2-ND	500	1228.50	TPSD227K010R0150
	220	10	E	8	22	100	478-1799-1-ND	9.50	8.27	7.22	478-1799-2-ND	400	1383.20	TPSE227K010R0100
	330	10	D	10	33	100	478-1787-1-ND	6.85	5.96	5.21	478-1787-2-ND	500	1246.50	TPSD337K010R0100

† ***RoHS Compliant***

(Continued)

AVX TPS Series Low ESR Surface Mount Tantalum Capacitors *(Cont.)*

Rated Voltage (V)	Capaci-tance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Size	Pricing	
10	330	10	D	8	33	50	478-3087-1-ND†	12.11	10.54	9.20	478-3087-2-ND†	500	2203.00	TPSD337K010R0050
	470	10	E	10	47	45	478-3088-1-ND†	14.85	12.92	11.29	478-3088-2-ND†	400	2162.00	TPSE477K010R0045
	470	10	E	10	47	100	478-1807-1-ND	14.90	12.97	11.33	478-1807-2-ND	400	2169.60	TPSE477K010R0100
16	2.2	10	A	6	0.5	1800	478-2394-1-ND	1.00	.87	.76	478-2394-2-ND	2,000	340.00/M	TPSA225K016R1800
	3.3	10	A	6	0.5	3500	478-2395-1-ND	1.00	.87	.76	478-2395-2-ND	2,000	340.00/M	TPSA335K016R3500
	4.7	10	B	6	0.8	1500	478-2396-1-ND	1.25	1.09	.95	478-2396-2-ND	2,000	425.00/M	TPSB475K016R1500
	6.8	10	B	6	1.1	1200	478-2397-1-ND	1.25	1.09	.95	478-2397-2-ND	2,000	425.00/M	TPSB685K016R1200
	6.8	10	A	6	1.1	1500	478-3089-1-ND†	.90	.79	.69	478-3089-2-ND†	2,000	306.00/M	TPSA685K016R1500
	10	10	B	6	1.6	800	478-2398-1-ND	1.25	1.09	.95	478-2398-2-ND	2,000	425.00/M	TPSB106K016R0800
	15	10	B	6	2.4	800	478-1757-1-ND	1.00	.87	.76	478-1757-2-ND	2,000	340.00/M	TPSB156K016R0800
	22	10	B	6	3.5	600	478-1758-1-ND	1.00	.87	.76	478-1758-2-ND	2,000	340.00/M	TPSB226K016R0600
	22	10	C	6	3.5	375	478-1767-1-ND	.88	.77	.67	478-1767-2-ND	500	159.50	TPSC226K016R0375
	33	10	C	6	5.3	300	478-1771-1-ND	1.75	1.53	1.33	478-1771-2-ND	500	318.50	TPSC336K016R0300
	33	10	B	8	5.3	350	478-3090-1-ND†	1.13	.98	.86	478-3090-2-ND†	2,000	383.00/M	TPSB336K016R0350
	33	10	W	6	5.3	175	478-3324-1-ND†	4.00	3.48	3.04	478-3324-2-ND†	1,000	1456.00	TPSW336K016R0175
	47	10	D	6	7.5	80	478-3325-1-ND†	4.00	3.48	3.04	478-3325-2-ND†	500	728.00	TPSD476K016R0080
	47	10	C	6	7.5	350	478-1773-1-ND	2.55	2.22	1.94	478-1773-2-ND	500	464.00	TPSC476K016R0350
	47	10	D	6	7.5	150	478-1788-1-ND	3.90	3.40	2.97	478-1788-2-ND	500	710.00	TPSD476K016R0150
	68	10	C	6	10.9	125	478-3091-1-ND†	2.66	2.31	2.02	478-3091-2-ND†	500	483.00	TPSC686K016R0125
	68	10	C	6	10.9	200	478-1774-1-ND	1.44	1.25	1.10	478-1774-2-ND	500	261.00	TPSC686K016R0200
	100	10	D	6	16	125	478-1778-1-ND	4.20	3.66	3.20	478-1778-2-ND	500	764.50	TPSD107K016R0125
	100	10	E	6	16	100	478-1793-1-ND	9.25	8.05	7.03	478-1793-2-ND	400	1346.80	TPSE107K016R0100
	100	10	D	6	16	150	478-3358-1-ND†	4.20	3.66	3.20	478-3358-2-ND†	500	764.50	TPSD107K016R0150
	100	10	E	6	16	125	478-1794-1-ND	8.50	7.40	6.46	478-1794-2-ND	400	1237.60	TPSE107K016R0125
	150	10	D	6	24	60	478-3092-1-ND†	9.68	8.42	7.36	478-3092-2-ND†	500	1761.00	TPSD157K016R0060
	150	10	D	6	24	100	478-3326-1-ND†	10.25	8.92	7.79	478-3326-2-ND†	500	1865.50	TPSD157K016R0100
	150	10	D	6	24	150	478-1782-1-ND	5.00	4.35	3.80	478-1782-2-ND	500	910.00	TPSD157K016R0150
	220	10	E	10	35.2	100	478-3093-1-ND†	9.45	8.23	7.19	478-3093-2-ND†	400	1376.00	TPSE227K016R0100
	220	10	V	8	35.2	50	478-3327-1-ND†	16.10	14.01	12.24	478-3327-2-ND†	400	2344.00	TPSV227K016R0050
	220	10	V	8	35.2	75	478-3328-1-ND†	15.75	13.71	11.97	478-3328-2-ND†	400	2293.20	TPSV227K016R0075
	220	10	E	10	35.2	150	478-1800-1-ND	10.00	8.70	7.60	478-1800-2-ND	400	1456.00	TPSE227K016R0150
20	1	10	A	4	0.5	3000	478-2399-1-ND	1.00	.87	.76	478-2399-2-ND	2,000	340.00/M	TPSA105K020R3000
	2.2	10	A	6	0.5	3000	478-2400-1-ND	1.00	.87	.76	478-2400-2-ND	2,000	340.00/M	TPSA225K020R3000
	3.3	10	A	6	0.7	2500	478-2401-1-ND	1.00	.87	.76	478-2401-2-ND	2,000	340.00/M	TPSA335K020R2500
	4.7	10	B	6	0.9	1000	478-2402-1-ND	1.25	1.09	.95	478-2402-2-ND	2,000	425.00/M	TPSB475K020R1000
	6.8	10	A	6	1.4	1000	478-3094-1-ND†	.90	.79	.69	478-3094-2-ND†	2,000	306.00/M	TPSA685K020R1000
	6.8	10	B	6	1.4	1000	478-2403-1-ND	1.25	1.09	.95	478-2403-2-ND	2,000	425.00/M	TPSB685K020R1000
	10	10	B	6	2	1000	478-1756-1-ND	1.25	1.09	.95	478-1756-2-ND	2,000	425.00/M	TPSB106K020R1000
	15	10	C	6	3	450	478-1766-1-ND	2.10	1.83	1.60	478-1766-2-ND	500	382.00	TPSC156K020R0450
	22	10	B	6	4.4	400	478-3095-1-ND†	1.13	.98	.86	478-3095-2-ND†	2,000	383.00/M	TPSB226K020R0400
	22	10	C	6	4.4	150	478-2404-1-ND	2.60	2.27	1.98	478-2404-2-ND	500	442.00	TPSC226K020R0150
	33	10	C	6	6.6	300	478-3096-1-ND†	2.05	1.79	1.56	478-3096-2-ND†	500	372.50	TPSC336K020R0300
	33	10	D	6	6.6	200	478-1785-1-ND	3.90	3.40	2.97	478-1785-2-ND	500	710.00	TPSD336K020R0200
	47	10	E	6	9.4	125	478-1805-1-ND	7.75	6.75	5.89	478-1805-2-ND	400	1128.40	TPSE476K020R0125
	47	10	E	6	9.4	150	478-1806-1-ND	5.45	4.74	4.14	478-1806-2-ND	400	792.80	TPSE476K020R0150
	47	10	D	6	9.4	100	478-3329-1-ND†	3.75	3.27	2.85	478-3329-2-ND†	500	682.50	TPSD476K020R0100
	68	10	E	6	13.6	150	478-1808-1-ND	9.00	7.83	6.84	478-1808-2-ND	400	1310.40	TPSE686K020R0150
	68	10	D	6	13.6	300	478-1792-1-ND	3.65	3.18	2.78	478-1792-2-ND	500	664.50	TPSD686K020R0300
	100	10	D	6	20	85	478-3097-1-ND†	3.83	3.33	2.91	478-3097-2-ND†	500	696.00	TPSD107K020R0085
	100	10	E	6	20	100	478-3098-1-ND†	13.73	11.95	10.44	478-3098-2-ND†	400	1998.40	TPSE107K020R0100
	100	10	V	8	20	60	478-3330-1-ND†	17.00	14.79	12.92	478-3330-2-ND†	400	2475.20	TPSV107K020R0060
	100	10	E	6	20	150	478-1795-1-ND	5.75	5.01	4.37	478-1795-2-ND	400	837.20	TPSE107K020R0150
	150	10	V	8	30	80	478-3099-1-ND†	14.27	12.42	10.85	478-3099-2-ND†	400	2076.80	TPSV157 K020R0080
25	.68	10	A	4	0.5	6000	478-2405-1-ND	1.00	.87	.76	478-2405-2-ND	2,000	340.00/M	TPSA684K025R6000
	1.5	10	A	6	0.5	3000	478-2406-1-ND	1.00	.87	.76	478-2406-2-ND	2,000	340.00/M	TPSA155K025R3000
	3.3	10	A	6	0.8	1000	478-3100-1-ND†	.90	.79	.69	478-3100-2-ND†	2,000	306.00/M	TPSA335K025R1000
	3.3	10	B	6	0.8	2000	478-2407-1-ND	1.25	1.09	.95	478-2407-2-ND	2,000	425.00/M	TPSB335K025R2000
	4.7	10	B	6	1.2	900	478-2408-1-ND	1.25	1.09	.95	478-2408-2-ND	2,000	425.00/M	TPSB475K025R0900
	6.8	10	B	6	1.7	700	478-3101-1-ND†	1.13	.98	.86	478-3101-2-ND†	2,000	383.00/M	TPSB685K025R0700
	6.8	10	C	6	1.7	600	478-2409-1-ND	1.60	1.40	1.22	478-2409-2-ND	500	272.00	TPSC685K025R0600
	10	10	C	6	2.5	500	478-1762-1-ND	.88	.77	.67	478-1762-2-ND	500	159.50	TPSC106K025R0500
	10	10	C	6	2.5	300	478-3360-1-ND†	2.60	2.27	1.98	478-3360-2-ND†	500	473.00	TPSC106K025R0300
	10	20	C	6	2.5	500	478-1763-1-ND	.88	.77	.67	478-1763-2-ND	500	159.50	TPSC106M025R0500
	22	10	D	6	5.5	200	478-1783-1-ND	3.90	3.40	2.97	478-1783-2-ND	500	710.00	TPSD226K025R0200
	22	10	C	6	5.5	275	478-3102-1-ND†	2.16	1.88	1.65	478-3102-2-ND†	500	393.00	TPSC226K025R0275
	22	10	D	6	5.5	100	478-3331-1-ND†	4.20	3.66	3.20	478-3331-2-ND†	500	764.50	TPSD226K025R0100
	33	10	D	6	8.3	300	478-1786-1-ND	3.60	3.14	2.74	478-1786-2-ND	500	655.00	TPSD336K025R0300
	33	10	E	6	8.3	300	478-1801-1-ND	6.75	5.88	5.13	478-1801-2-ND	400	982.80	TPSE336K025R0300
	33	10	D	6	8.3	100	478-3332-1-ND†	4.35	3.79	3.31	478-3332-2-ND†	500	791.50	TPSD336K025R0100
	33	20	D	6	8.3	200	478-3062-1-ND†	3.95	3.44	3.01	478-3062-2-ND†	500	719.00	TPSD336M025R0200
	33	10	D	6	8.3	200	478-3359-1-ND†	4.05	3.53	3.08	478-3359-2-ND†	500	737.00	TPSD336K025R0200
	33	20	E	6	8.3	175	478-1802-1-ND	7.00	6.09	5.32	478-1802-2-ND	400	1019.20	TPSE336M025R0175
	33	20	E	6	8.3	200	478-1803-1-ND	6.80	5.92	5.17	478-1803-2-ND	400	990.00	TPSE336M025R0200
	47	10	D	6	11.8	150	478-1789-1-ND	6.75	5.88	5.13	478-1789-2-ND	500	1228.50	TPSD476K025R0150
	47	10	D	6	11.8	125	478-3103-1-ND†	6.26	5.45	4.76	478-3103-2-ND†	500	1138.50	TPSD476K025R0125
	47	10	D	6	11.8	250	478-3333-1-ND†	4.05	3.53	3.08	478-3333-2-ND†	500	737.00	TPSD476K025R0250
	68	10	E	6	17	200	478-3334-1-ND†	8.50	7.40	6.46	478-3334-2-ND†	400	1237.60	TPSE686K025R0200
	68	10	V	6	17	95	478-3335-1-ND†	16.75	14.58	12.73	478-3335-2-ND†	400	2438.80	TPSV686K025R0095
	68	10	E	6	17	125	478-2410-1-ND	10.25	8.92	7.79	478-2410-2-ND	400	1492.40	TPSE686K025R0125
	100	10	V	8	25	100	478-3104-1-ND†	15.08	13.12	11.46	478-3104-2-ND†	400	2194.80	TPSV107K025R0100
35	.68	10	A	4	0.5	6000	478-2411-1-ND	1.00	.87	.76	478-2411-2-ND	2,000	340.00/M	TPSA684K035R6000
	1	10	B	4	0.5	2000	478-2412-1-ND	1.25	1.09	.95	478-2412-2-ND	2,000	425.00/M	TPSB105K035R2000
	1	10	A	4	0.5	3000	478-3336-1-ND†	1.00	.87	.76	478-3336-2-ND†	2,000	340.00/M	TPSA105K035R3000
	1.5	10	B	6	0.5	2500	478-2413-1-ND	1.25	1.09	.95	478-2413-2-ND	2,000	425.00/M	TPSB155K035R2500
	2.2	10	B	6	0.8	2000	478-2414-1-ND	1.25	1.09	.95	478-2414-2-ND	2,000	425.00/M	TPSB225K035R2000
	3.3	10	C	6	1.2	700	478-1769-1-ND	1.95	1.70	1.49	478-1769-2-ND	500	355.00	TPSC335K035R0700
	4.7	10	C	6	1.6	600	478-1772-1-ND	1.95	1.70	1.49	478-1772-2-ND	500	355.00	TPSC475K035R0600
	6.8	10	D	6	2.4	400	478-2415-1-ND	4.05	3.53	3.08	478-2415-2-ND	500	737.00	TPSD685K035R0400
	10	10	D	6	3.5	300	478-1775-1-ND	1.43	1.24	1.09	478-1775-2-ND	500	259.50	TPSD106K035R0300
	10	10	D	6	3.5	125	478-3337-1-ND†	4.00	3.48	3.04	478-3337-2-ND†	500	728.00	TPSD106K035R0125
	15	10	C	6	5.3	350	478-3107-1-ND†	1.98	1.73	1.51	478-3107-2-ND†	500	360.50	TPSC156K035R0350
	15	10	D	6	5.3	300	478-1780-1-ND	3.00	2.61	2.28	478-1780-2-ND	500	546.00	TPSD156K035R0300
	22	10	D	6	7.7	125	478-1796-1-ND	9.75	8.49	7.41	478-1796-2-ND	400	1419.60	TPSE226K035R0125
	22	10	E	6	7.7	200	478-1797-1-ND	9.25	8.05	7.03	478-1797-2-ND	400	1346.80	TPSE226K035R0200
	22	10	E	6	7.7	300	478-1798-1-ND	8.75	7.62	6.65	478-1798-2-ND	400	1274.00	TPSE226K035R0300
	22	20	D	6	7.7	300	478-3060-1-ND†	9.25	8.05	7.03	478-3060-2-ND†	500	1683.50	TPSD226M035R0300
	22	10	D	6	7.7	200	478-3356-1-ND†	10.00	8.70	7.60	478-3356-2-ND†	500	1820.00	TPSD226K035R0200
	33	10	D	6	11.6	200	478-3108-1-ND†	9.00	7.83	6.84	478-3108-2-ND†	500	1638.00	TPSD336K035R0200
	33	10	E	6	11.6	1005	478-3338-1-ND†	11.00	9.57	8.36	478-3338-2-ND†	400	1601.60	TPSE336K035R0100
	33	10	D	6	11.6	300	478-2416-1-ND	9.25	8.05	7.03	478-2416-2-ND	500	1683.50	TPSD336K035R0300
	47	10	E	6	16.5	200	478-3109-1-ND†	10.71	9.32	8.14	478-3109-2-ND†	400	1559.20	TPSE476K035R0200

† ***RoHS Compliant***

(Continued)

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Size	Pricing	
35	2.2	10	A	6	0.8	1500	478-3105-1-ND†	.90	.79	.69	478-3105-2-ND†	2,000	306.00/M	TPSA225K035R1500
	4.7	10	B	6	1.2	700	478-3106-1-ND†	1.13	.98	.86	478-3106-2-ND†	2,000	383.00/M	TPSB475K035R0700
	47	10	E	6	16.5	250	478-2417-1-ND	11.65	10.14	8.86	478-2417-2-ND	400	1696.40	TPSE476K035R0250
	68	20	V	6	23.8	150	478-3110-1-ND†	16.20	14.10	12.32	478-3110-2-ND†	400	2358.80	TPSV686M035R0150
50	.15	10	A	4	0.5	9000	478-2418-1-ND	1.00	.87	.76	478-2418-2-ND	2,000	340.00/M	TPSA154K050R9000
	.22	10	A	4	0.5	7000	478-2419-1-ND	1.00	.87	.76	478-2419-2-ND	2,000	340.00/M	TPSA224K050R7000
	2.2	10	D	6	1.1	1200	478-2420-1-ND	7.00	6.09	5.32	478-2420-2-ND	500	1274.00	TPSD225K050R1200
	3.3	10	D	6	1.7	800	478-2421-1-ND	7.25	6.31	5.51	478-2421-2-ND	500	1319.50	TPSD335K050R0800
	4.7	10	D	6	2.4	500	478-2422-1-ND	7.25	6.31	5.51	478-2422-2-ND	500	1319.50	TPSD475K050R0500
	4.7	10	D	6	2.4	300	478-3339-1-ND†	8.45	7.36	6.43	478-3339-2-ND†	500	1538.00	TPSD475K050R0300
	6.8	10	D	6	3.4	300	478-3111-1-ND†	6.08	5.29	4.62	478-3111-2-ND†	500	1105.50	TPSD685K050R0300
	6.8	10	D	6	3.4	500	478-2423-1-ND	4.50	3.92	3.42	478-2423-2-ND	500	819.00	TPSD685K050R0500
	10	10	E	6	5	400	478-3361-1-ND†	18.20	15.84	13.84	478-3361-2-ND†	400	2650.00	TPSE106K050R0400
	10	10	E	6	5	500	478-2424-1-ND	17.70	15.40	13.46	478-2424-2-ND	400	2577.20	TPSE106K050R0500
	15	10	E	6	5	250	478-3112-1-ND†	16.88	14.69	12.83	478-3112-2-ND†	400	2457.20	TPSE156K050R0250

† *RoHS Compliant*

TCJ Series Conductive Polymer Tantalum Capacitors

The TCJ Series of tantalum capacitors with a conductive polymer electrode offers lower ESR, safer non-ignition failure mode and better capacitance retention compared to the conventional Mn02 electrode capacitors. The TCJ series is suitable for power management systems with operating temperatures up to 125°C.

In addition, the TCJ Series complies with RoHS requirements and is an environmentally friendly component ready for lead free-assembly systems up to 3x reflow with 260°C peak temperature.

- **Temperature Range:** -55°C ~ 125°C • **Capacitance Tolerance:** ±20%

Case Size	EIA Code	Dimensions (mm)					
		L	W	H	W_1	A	S Min
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.80
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
T	3528-12	3.50	2.80	1.20	2.20	0.80	2.00

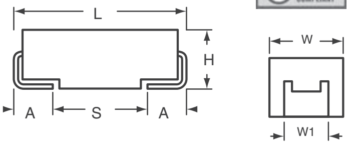

Rated Voltage (V)	Capacitance (µF)	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	RMS Current (mA) @100kHz & 25C	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Size	Pricing	
4	22	A	6	8.8	300	500	478-3135-1-ND	.95	.83	.72	478-3135-2-ND	2,000	321.00/M	TCJA226M004R0300
	68	B	6	27.2	70	1102	478-3137-1-ND	1.10	.96	.84	478-3137-2-ND	2,000	321.00/M	TCJB686M004R0070
	100	B	8	40	70	1102	478-3129-1-ND	1.10	.96	.84	478-3129-2-ND	2,000	374.00/M	TCJB107M004R0070
6.3	10	A	6	6	300	500	478-3134-1-ND	.94	.82	.72	478-3134-2-ND	2,000	318.00/M	TCJA106M006R0300
	15	A	6	9	300	500	478-3128-1-ND	.95	.83	.72	478-3128-2-ND	2,000	321.00/M	TCJA156M006R0300
	47	B	6	28.2	70	1102	478-3139-1-ND	1.10	.96	.84	478-3139-2-ND	2,000	374.00/M	TCJB476M006R0070
	47	T	8	28.2	80	1000	478-3133-1-ND	1.32	1.15	1.00	478-3133-2-ND	2,500	447.00/M	TCJT476M006R0080
	68	B	8	40.8	70	1102	478-3131-1-ND	1.10	.96	.84	478-3131-2-ND	2,000	374.00/M	TCJB686M006R0070
	100	B	10	60	70	1102	478-3130-1-ND	1.10	.96	.84	478-3130-2-ND	2,000	374.00/M	TCJB107M006R0070
10	10	A	6	10	300	500	478-3127-1-ND	.95	.83	.72	478-3127-2-ND	2,000	321.00/M	TCJA106M010R0300
	22	B	6	22	300	532	478-3136-1-ND	1.10	.96	.84	478-3136-2-ND	2,000	374.00/M	TCJB226M010R0300
	33	B	6	33	200	652	478-3138-1-ND	1.10	.96	.84	478-3138-2-ND	2,000	374.00/M	TCJB336M010R0200
	47	B	6	47	70	1102	478-3132-1-ND	1.10	.96	.84	478-3132-2-ND	2,000	374.00/M	TCJB476M010R0070

TLC and TLJ Series Tantalum Solid Electrolytic Capacitors

The consumer TLJ and TLC Series of tantalum capacitors offer a high capacitance vs voltage ratio based on stable MnO_2 electrode capacitors.

They are suitable for a wide range of consumer electronic applications such as the latest portable handheld electronics, cellular phones, PDA's or other digital equipment and cameras.

- **Temperature Range:** -55°C ~ 125°C
- **Capacitance Tolerance: 20%**

Case Size	EIA Code	Dimensions (mm)					
		L	W	H	W_1	S Min	A
A	3216-18	3.20	1.60	1.60	1.20	1.80	0.80
B	3528-21	3.50	2.80	1.90	2.20	1.40	0.80
K	0402	1.00	0.50	0.50	.40	—	—
L	0603	1.60	0.85	0.85	.55	—	—
R (TLJ)	2012-12	2.05	1.30	1.20	1.0	0.70	0.50
R (TLC)	0805	2.50	1.35	1.35	.70	—	—
T	3528	3.50	2.80	1.20 Max	2.00	—	—
W	6032-15	6.00	3.20	1.50	2.20	2.90	1.30

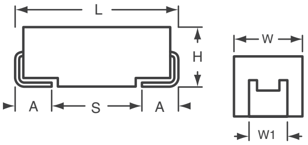

Rated Voltage (V)	Capacitance (µF)	Case Size	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
						1	10	100		Size	Pricing	
TLC Series												
4	4.7	K	.5	15	478-3340-1-ND	6.65	5.79	5.06	478-3340-2-ND	1,000	2421.00	TLCK475M004QTA
	100	R	4.0	5000	478-3341-1-ND	3.83	3.33	2.91	478-3341-2-ND	500	696.00	TLCR107M004XTA
6.3	22	L	1.4	7.5	478-3343-1-ND	2.93	2.55	2.23	478-3343-2-ND	500	532.50	TLCL226M006XTA
10	47	R	4.7	5000	478-3347-1-ND	3.83	3.33	2.91	478-3347-2-ND	500	696.00	TLCR476M010XTA
TLJ Series												
4	100	A	4.0	500	478-3342-1-ND	2.10	1.83	1.60	478-3342-2-ND	2,000	714.00/M	TLJA107M004R0500
6.3	33	R	2.0	3000	478-3344-1-ND	3.00	2.61	2.28	478-3344-2-ND	2,500	1020.00/M	TLJR336M006R3000
	100	A	6.0	500	478-3345-1-ND	3.10	2.70	2.36	478-3345-2-ND	2,000	1054.00/M	TLJA107M006R0500
10	10	R	1.0	3000	478-3346-1-ND	2.75	2.40	2.09	478-3346-2-ND	2,500	935.00/M	TLJR106M010R3000
	47	T	4.7	600	478-3348-1-ND	3.25	2.83	2.47	478-3348-2-ND	2,500	1105.00/M	TLJT476M010R0600
	150	B	15	500	478-3349-1-ND	3.25	2.83	2.47	478-3349-2-ND	2,000	1105.00/M	TLJB157M010R0500
	150	W	15	200	478-3350-1-ND	4.25	3.70	3.23	478-3350-2-ND	1,000	1547.00	TLJW157M010R0200

AVX TPM Series Multianode Ultra Low ESR Surface Mount Tantalum Capacitors

Low ESR, high capacitance and high ripple current are the key parameters for processor filtering. Multianode configuration within a standard E case package meets these requirements.

- **Temperature Range:** -55°C ~ 125°C

Case Size	EIA Code	Dimensions (mm) L ±0.20	W +0.20, -0.10	H +0.20, -0.10	W_1 ±0.20	A +0.30, -0.20	S Min.
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
V	7361-38	7.30	6.10	3.45 ±0.30	3.10	1.40	1.80

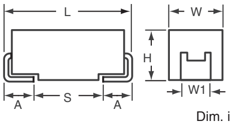

Dim. in mm.

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 400	AVX Part No.
2.5	1500	10	E	6	38	12	478-3292-1-ND†	15.00	13.05	11.40	478-3292-2-ND†	2184.00	TPME158K002R0012
	1500	10	E	6	38	15	478-3293-1-ND†	15.00	13.05	11.40	478-3293-2-ND†	2184.00	TPME158K002R0015
4	680	10	E	6	27	18	478-3294-1-ND†	15.00	13.05	11.40	478-3294-2-ND†	2184.00	TPME687K004R0018
	680	10	E	6	27	23	478-1815-1-ND	12.25	10.66	9.31	478-1815-2-ND	1783.60	TPME687K004R0023
	680	20	E	6	27	23	478-1816-1-ND	11.25	9.79	8.55	478-1816-2-ND	1638.00	TPME687M004R0023
	1000	10	V	6	40	18	478-3295-1-ND†	15.50	13.49	11.78	478-3295-2-ND†	2256.80	TPMV108K004R0018
	1000	10	E	6	40	18	478-1819-1-ND	12.50	10.88	9.50	478-1819-2-ND	1820.00	TPME108K004R0018
	1000	20	E	6	40	18	478-1820-1-ND	11.75	10.23	8.93	478-1820-2-ND	1710.80	TPME108M004R0018
6.3	470	10	E	6	28	23	478-3296-1-ND†	15.00	13.05	11.40	478-3296-2-ND†	2184.00	TPME477K006R0023
	470	10	E	6	28	30	478-1812-1-ND	10.00	8.70	7.60	478-1812-2-ND	1456.00	TPME477K006R0030
	470	20	E	6	28	30	478-1813-1-ND	9.75	8.49	7.41	478-1813-2-ND	1419.60	TPME477M006R0030
	680	10	E	6	41	18	478-3297-1-ND†	15.00	13.05	11.40	478-3297-2-ND†	2184.00	TPME687K006R0018
	680	10	V	6	41	23	478-3298-1-ND†	15.50	13.49	11.78	478-3298-2-ND†	2256.80	TPMV687K006R0023
	680	10	E	6	41	23	478-1817-1-ND	12.25	10.66	9.31	478-1817-2-ND	1783.60	TPME687K006R0023
	680	20	E	6	41	23	478-1818-1-ND	11.25	9.79	8.55	478-1818-2-ND	1638.00	TPME687M006R0023
10	330	10	E	6	33	35	478-1810-1-ND	10.00	8.70	7.60	478-1810-2-ND	1456.00	TPME337K010R0035
	330	20	E	6	33	35	478-1811-1-ND	9.75	8.49	7.41	478-1811-2-ND	1419.60	TPME337M010R0035
	470	20	E	6	47	30	478-1814-1-ND	9.75	8.49	7.41	478-1814-2-ND	1419.60	TPME477M010R0030
	470	10	E	6	47	23	478-3299-1-ND†	15.00	13.05	11.40	478-3299-2-ND†	2184.00	TPME477K010R0023
	470	10	E	6	47	30	478-3300-1-ND†	15.00	13.05	11.40	478-3300-2-ND†	2184.00	TPME477K010R0030
16	150	10	E	6	24	40	478-3301-1-ND†	15.00	13.05	11.40	478-3301-2-ND†	2184.00	TPME157K016R0040
	220	10	E	6	35	25	478-3302-1-ND†	15.00	13.05	11.40	478-3302-2-ND†	2184.00	TPME227K016R0025
	220	10	E	6	35	40	478-3303-1-ND†	15.00	13.05	11.40	478-3303-2-ND†	2184.00	TPME227K016R0040
25	68	10	E	6	17	55	478-3304-1-ND†	15.00	13.05	11.40	478-3304-2-ND†	2184.00	TPME686K025R0055
35	22	10	E	6	8	60	478-3305-1-ND†	17.50	15.23	13.30	478-3305-2-ND†	2548.00	TPME226K035R0060
	22	10	E	6	8	100	478-3306-1-ND†	17.50	15.23	13.30	478-3306-2-ND†	2548.00	TPME226K035R0100
	33	10	E	6	12	65	478-3307-1-ND†	17.50	15.23	13.30	478-3307-2-ND†	2548.00	TPME336K035R0065
	47	10	E	6	16	65	478-3308-1-ND†	17.50	15.23	13.30	478-3308-2-ND†	2548.00	TPME476K035R0065
50	10	10	E	6	5	120	478-3309-1-ND†	20.00	17.40	15.20	478-3309-2-ND†	2912.00	TPME106K050R0120

† *RoHS Compliant*

TAC Series Standard Microchip Surface Mount Tantalum Capacitors

The world's smallest surface mount tantalum capacitor, small enough to create space providing room for ideas to grow. TACmicrochip™ is a major breakthrough in miniaturization without reduction in performance.

It offers the highest energy store in a small case down to 0402;

Enhanced high frequency operation through unique ESR performance with temperature and voltage stability also offered.

Case Size	EIA Code	EIA Metric	Dimensions (mm) L	W	H	Minimum Termination Spacing (S)	Length (Lt)
A	1206	3216-18	3.20	1.60	1.60	1.80	0.15
H	0805	20-12-10	2.00	1.35	1.00	0.70	0.15
K	0402	1005-07	1.00	0.50	0.50	0.40	0.10
L	0603	1608-10	1.60	0.85	0.85	0.55	0.15
R	0805	2012-15	2.00	1.35	1.35	0.70	0.15
T	3528	3528-12	3.50	2.80	1.20	2.00	0.15
U	0805	2012-06	2.00	1.35	0.60	0.70	0.15

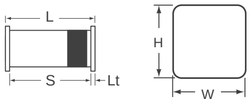

Rated Voltage (V)	Capacitance (µF)	Cap. Tol. %	Case Size	DF % Max.	DCL (µA) Max.	ESR Max. (Ω) @100kHz	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	AVX Part No.
2.0	10	20	K	15	0.5	15	478-3254-1-ND†	7.40	6.44	5.63	478-3254-2-ND†	1,000	2694.00	TACK106M002QTA
3.0	4.7	20	K	12	0.5	15	478-3255-1-ND†	7.40	6.44	5.63	478-3255-2-ND†	1,000	2694.00	TACK475M003QTA
	100	20	R	30	3.0	5	478-3256-1-ND†	4.25	3.70	3.23	478-3256-2-ND†	500	773.50	TACR107M003XTA
	220	20	T	20	6.6	1	478-3257-1-ND†	4.88	4.25	3.71	478-3257-2-ND†	500	887.50	TACT227M003XTA
4	10	20	L	10	0.5	7.5	478-2549-1-ND	1.75	1.53	1.33	478-2549-2-ND	500	318.50	TACL106M004XTA
	10	20	R	8	0.5	5	478-2559-1-ND	2.75	2.40	2.09	478-2559-2-ND	500	500.50	TACR106M004XTA
	22	20	L	20	0.9	7.5	478-2550-1-ND	1.75	1.53	1.33	478-2550-2-ND	500	318.50	TACL226M004XTA
	22	20	R	8	0.9	5	478-2560-1-ND	2.75	2.40	2.09	478-2560-2-ND	500	500.50	TACR226M004XTA
	47	20	R	14	1.9	5	478-3113-1-ND†	4.25	3.70	3.23	478-3113-2-ND†	500	773.50	TACR476M004XTA
	100	20	A	20	4.0	1	478-2566-1-ND	3.25	2.83	2.47	478-2566-2-ND	500	591.50	TACA107M004XTA
6.3	1.5	20	L	6	0.5	7.5	478-2551-1-ND	1.75	1.53	1.33	478-2551-2-ND	500	318.50	TACL155M006XTA
	2.2	20	K	8	0.5	15	478-2547-1-ND	3.90	3.40	2.97	478-2547-2-ND	1,000	1420.00	TACK225M006QTA
	2.2	20	L	6	0.5	7.5	478-2552-1-ND	1.75	1.53	1.33	478-2552-2-ND	500	318.50	TACL225M006XTA
	10	20	L	10	0.6	6	478-2553-1-ND	1.75	1.53	1.33	478-2553-2-ND	500	318.50	TACL106M006XTA
	10	20	R	8	0.6	5	478-2561-1-ND	2.75	2.40	2.09	478-2561-2-ND	500	500.50	TACR106M006XTA
	15	20	L	20	0.9	7.5	478-3114-1-ND†	3.25	2.83	2.47	478-3114-2-ND†	500	591.50	TACL156M006XTA
	22	20	H	10	1.4	5	478-3258-1-ND†	4.25	3.70	3.23	478-3258-2-ND†	500	773.50	TACH226M006XTA
	22	20	R	10	1.4	5	478-2562-1-ND	2.75	2.40	2.09	478-2562-2-ND	500	500.50	TACR226M006XTA
	33	20	R	12	2.1	5	478-3115-1-ND†	4.25	3.70	3.23	478-3115-2-ND†	500	773.50	TACR336M006XTA
	47	20	R	20	3.0	5	478-3259-1-ND†	4.25	3.70	3.23	478-3259-2-ND†	500	773.50	TACR476M006XTA
	47	20	A	15	3.0	1	478-3116-1-ND†	5.50	4.79	4.18	478-3116-2-ND†	500	1001.00	TACA476M006XTA
	100	20	A	20	6.3	1	478-3260-1-ND†	5.50	4.79	4.18	478-3260-2-ND†	500	1001.00	TACA107M006XTA
	100	20	T	12	6.3	1	478-3261-1-ND†	4.88	4.25	3.71	478-3261-2-ND†	500	887.50	TACT107M006XTA
10	1.0	20	K	6	0.5	15	478-2548-1-ND	3.90	3.40	2.97	478-2548-2-ND	1,000	1420.00	TACK105M010QTA
	1.0	20	L	6	0.5	7.5	478-2554-1-ND	1.75	1.53	1.33	478-2554-2-ND	500	318.50	TACL105M010XTA
	2.2	20	U	8	0.5	5	478-3262-1-ND†	4.25	3.70	3.23	478-3262-2-ND†	500	773.50	TACU225M010XTA
	2.2	20	L	6	0.5	7.5	478-2555-1-ND	1.75	1.53	1.33	478-2555-2-ND	500	318.50	TACL225M010XTA
	3.3	20	L	8	0.5	7.5	478-2556-1-ND	1.75	1.53	1.33	478-2556-2-ND	500	318.50	TACL335M010XTA
	3.3	20	R	8	0.5	5	478-2563-1-ND	2.75	2.40	2.09	478-2563-2-ND	500	500.50	TACR335M010XTA
	4.7	20	L	10	0.5	6	478-2557-1-ND	1.75	1.53	1.33	478-2557-2-ND	500	318.50	TACL475M010XTA
	4.7	20	R	8	0.5	6	478-2564-1-ND	2.75	2.40	2.09	478-2564-2-ND	500	500.50	TACR475M010XTA
	10	20	L	20	1.0	7.5	478-3263-1-ND†	3.25	2.83	2.47	478-3263-2-ND†	500	591.50	TACL106M010XTA
	22	20	R	14	2.5	5	478-3117-1-ND†	4.25	3.70	3.23	478-3117-2-ND†	500	773.50	TACR226M010XTA
	33	20	A	12	3.3	1	478-3118-1-ND†	5.50	4.79	4.18	478-3118-2-ND†	500	1001.00	TACA336M010XTA
	47	20	T	12	4.7	1	478-3264-1-ND†	4.88	4.25	3.71	478-3264-2-ND†	500	887.50	TACT476M010XTA
16	1.0	20	U	8	0.5	5	478-3265-1-ND†	4.25	3.70	3.23	478-3265-2-ND†	500	773.50	TACU105M016XTA
	1.0	20	L	6	0.5	7.5	478-2558-1-ND	1.75	1.53	1.33	478-2558-2-ND	500	318.50	TACL105M016XTA
	2.2	20	L	10	0.5	7.5	478-3119-1-ND†	3.25	2.83	2.47	478-3119-2-ND†	500	591.50	TACL225M016XTA
	10	20	R	10	1.6	5	478-2565-1-ND	2.75	2.40	2.09	478-2565-2-ND	500	500.50	TACR106M016XTA
20	4.7	20	R	8	0.9	5	478-3266-1-ND†	4.25	3.70	3.23	478-3266-2-ND†	500	773.50	TACR475M020XTA
25	1.0	20	R	8	0.5	5	478-3267-1-ND†	4.25	3.70	3.23	478-3267-2-ND†	500	773.50	TACR105M025XTA

† *RoHS Compliant*

OxiCap™ Niobium Oxide Capacitors

Cost versus performance is a key requirement for consumer electronic products. A solid electrolyte capacitor OxiCap has been developed by AVX in standard EIA case sizes in order to meet this requirement as a higher performance alternative to aluminum and other SMT capacitor technologies currently on the market.

The OxiCap non-burn technology is based on NbO niobium oxide ceramic material as the anodic material processed through the same manufacturing process as tantalum capacitors.

The laser coded orange molded body gives total traceability.

Case Size	EIA Code	L ±0.20	W +0.20, -0.10	H +0.20, -0.10	W_1 ±0.20	A +0.30, -0.20	S Min.
A	3216-18	3.20	1.60	1.60	1.20	0.80	1.80
B	3528-21	3.50	2.80	1.90	2.20	0.80	1.40
C	6032-28	6.00	3.20	2.60	2.20	1.30	2.90
D	7343-31	7.30	4.30	2.90	2.40	1.30	4.40
E	7343-43	7.30	4.30	4.10	2.40	1.30	4.40
P	2012-15	2.05	1.35	1.0±0.1	1.20	0.50	0.85
S	3216-12	3.20	1.60	1.20	1.20	0.80	1.10
T	3528-12	3.50	2.80	1.20	2.20	0.80	2.00
V	7361-38	7.30	6.10	3.45±0.30	3.10	1.40	1.80
W	6032-15	6.00	3.20	1.50	2.20	1.30	2.90
X	7343-15	7.30	4.30	1.50	2.40	1.30	4.40
Y	7343-20	7.30	4.30	2.00	2.40	1.30	4.40

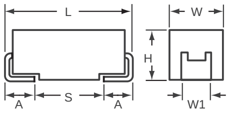

Dim. in mm.

NOJ Series

- **Temperature Range:** -55°C ~ 105°C

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Size	Pricing	
1.8	330	20	Y	8	11.9	300	478-3196-1-ND†	2.65	2.31	2.02	478-3196-2-ND†	1,000	965.00	NOJY337M001RWJ
2.5	10	20	P	6	1.0	4500	478-3197-1-ND†	1.06	.93	.81	478-3197-2-ND†	2,500	360.00/M	NOJP106M002RWJ
	22	20	T	6	1.1	1900	478-3198-1-ND†	1.35	1.18	1.03	478-3198-2-ND†	2,500	459.00/M	NOJT226M002RWJ
	33	20	A	6	1.7	1700	478-3199-1-ND†	.49	.43	.37	478-3199-2-ND†	2,000	165.00/M	NOJA336M002RWJ
	470	20	E	10	23.5	300	478-3200-1-ND†	6.89	5.99	5.24	478-3200-2-ND†	400	1002.40	NOJE477M002RWJ
	1000	20	V	18	50.0	300	478-3201-1-ND†	7.80	6.79	5.93	478-3201-2-ND†	400	1135.60	NOJV108M002RWJ
4	6.8	20	P	6	1.0	5300	478-3202-1-ND†	1.06	.93	.81	478-3202-2-ND†	2,500	360.00/M	NOJP685M004RWJ
	6.8	20	S	6	1.0	2600	478-3203-1-ND†	1.15	1.01	.88	478-3203-2-ND†	2,500	391.00/M	NOJS685M004RWJ
	15	20	T	6	1.2	2000	478-3204-1-ND†	1.35	1.18	1.03	478-3204-2-ND†	2,500	459.00/M	NOJT156M004RWJ
	22	20	A	6	1.8	1900	478-3205-1-ND†	.55	.48	.42	478-3205-2-ND†	2,000	185.00/M	NOJA226M004RWJ
	22	20	B	6	1.8	1900	478-3206-1-ND†	.53	.46	.40	478-3206-2-ND†	2,000	179.00/M	NOJB226M004RWJ
	47	20	B	6	3.8	1600	478-3207-1-ND†	.73	.64	.56	478-3207-2-ND†	2,000	247.00/M	NOJB476M004RWJ
	47	20	C	6	3.8	500	478-3208-1-ND†	.96	.84	.73	478-3208-2-ND†	500	174.50	NOJC476M004RWJ
	100	20	C	6	8	400	478-1824-1-ND	.75	.66	.57	478-1824-2-ND	500	136.50	NOJC107M004RWJ
	150	20	C	6	12	400	478-3209-1-ND†	1.75	1.53	1.33	478-3209-2-ND†	500	318.50	NOJC157M004RWJ
	220	20	D	8	17.6	400	478-3210-1-ND†	1.85	1.61	1.41	478-3210-2-ND†	500	336.50	NOJD227M004RWJ
	330	20	D	8	26.4	300	478-3211-1-ND†	6.30	5.49	4.79	478-3211-2-ND†	500	1146.50	NOJD337M004RWJ
	680	20	V	14	54.4	300	478-3212-1-ND†	7.80	6.79	5.93	478-3212-2-ND†	400	1135.60	NOJV687M004RWJ
6.3	4.7	20	A	6	1.1	3100	478-3213-1-ND†	.40	.35	.31	478-3213-2-ND†	2,000	136.00/M	NOJA475M006RWJ
	4.7	20	S	6	1.0	3200	478-3214-1-ND†	1.15	1.01	.88	478-3214-2-ND†	2,500	391.00/M	NOJS475M006RWJ
	10	20	A	6	1.2	2200	478-1821-1-ND	.40	.35	.31	478-1821-2-ND	2,000	136.00/M	NOJS475M006RWJ
	15	20	B	6	1.8	2000	478-1822-1-ND	.55	.48	.42	478-1822-2-ND†	2,000	187.00/M	NOJB156M006RWJ
	22	20	B	6	2.64	1900	478-1823-1-ND	.50	.44	.38	478-1823-2-ND	2,000	170.00/M	NOJB226M006RWJ
	33	20	B	6	4.0	1700	478-3215-1-ND†	.74	.65	.57	478-3215-2-ND†	2.000	252.00/M	NOJB336M006RWJ
	33	20	C	6	4.0	500	478-3216-1-ND†	.96	.84	.73	478-3216-2-ND†	500	174.50	NOJC336M006RWJ
	47	20	C	6	5.7	500	478-3217-1-ND†	.96	.84	.73	478-3217-2-ND†	500	174.50	NOJC476M006RWJ
	68	20	C	6	8.2	500	478-3218-1-ND†	1.20	1.04	.91	478-3218-2-ND†	500	217.50	NOJC686M006RWJ
	100	20	Y	6	12.0	400	478-3219-1-ND†	2.65	2.31	2.02	478-3219-2-ND†	1,000	965.00	NOJY107M006RWJ
	100	20	D	6	12.0	400	478-1825-1-ND	1.05	.92	.80	478-1825-2-ND	500	191.00	NOJD107M006RWJ
	150	20	D	6	18.0	400	478-1826-1-ND	1.25	1.09	.95	478-1826-2-ND	500	227.50	NOJD157M006RWJ
	220	20	E	12	26.4	400	478-1827-1-ND	3.00	2.61	2.28	478-1827-2-ND	400	436.80	NOJE227M006RWJ
	330	20	E	12	39.6	300	478-1828-1-ND	3.93	3.42	2.99	478-1828-2-ND	400	571.60	NOJE337M006RWJ
10	4.7	20	A	6	1.0	3100	478-3120-1-ND†	.36	.32	.28	478-3120-2-ND†	2,000	124.00/M	NOJA475M010RWJ
	10	20	A	6	2.0	2200	478-3121-1-ND†	.41	.36	.31	478-3121-2-ND†	2,000	138.00/M	NOJA106M010RWJ
	10	20	B	6	2.0	2200	478-3122-1-ND†	.47	.42	.36	478-3122-2-ND†	2,000	161.00/M	NOJB106M010RWJ
	15	20	B	6	3.0	2000	478-3220-1-ND†	.57	.50	.44	478-3220-2-ND†	2.000	194.00/M	NOJB156M010RWJ
	22	20	B	6	4.4	1800	478-3123-1-ND†	.68	.59	.52	478-3123-2-ND†	2,000	230.00/M	NOJB226M010RWJ
	22	20	C	6	4.4	500	478-3124-1-ND†	.95	.83	.72	478-3124-2-ND†	500	172.00	NOJC226M010RWJ
	33	20	C	6	6.6	500	478-3125-1-ND†	.95	.83	.72	478-3125-2-ND†	500	172.00	NOJC336M010RWJ
	47	20	C	6	9.4	400	478-3126-1-ND†	.95	.83	.72	478-3126-2-ND†	500	172.00	NOJC476M010RWJ

NOS Low ESR Series

- **Temperature Range:** -55°C ~ 125°C

Rated Voltage (V)	Capacitance (µF)	Capacitance Tolerance %	Case Size	DF % Maximum	DCL (µA) Maximum	ESR Maximum (mΩ)@100kHz	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
								1	10	100		Size	Pricing	
1.8	330	20	Y	8	11.9	100	478-3221-1-ND†	6.00	5.22	4.56	478-3221-2-ND†	1,000	2184.00	NOSY337M001R0100
	470	20	Y	8	16.9	100	478-3222-1-ND†	6.00	5.22	4.56	478-3222-2-ND†	1,000	2184.00	NOSY477M001R0100
2.5	68	20	C	6	3.4	200	478-3223-1-ND†	2.03	1.77	1.54	478-3223-2-ND†	500	368.50	NOSC686M002R0200
	100	20	C	6	5.0	150	478-3224-1-ND†	2.16	1.88	1.65	478-3224-2-ND†	500	393.00	NOSC107M002R0150
	150	20	C	6	7.6	65	478-3225-1-ND†	2.95	2.57	2.25	478-3225-2-ND†	500	537.00	NOSC157M002R0065
	220	20	C	8	11.0	80	478-3226-1-ND†	2.60	2.27	1.98	478-3226-2-ND†	500	473.00	NOSC227M002R0080
	220	20	Y	8	11.0	100	478-3227-1-ND†	6.00	5.22	4.56	478-3227-2-ND†	1,000	2184.00	NOSY227M002R0100
	470	20	D	10	23.5	100	478-3228-1-ND†	5.90	5.14	4.49	478-3228-2-ND†	500	1074.00	NOSD477M002R0100
	680	20	E	12	34.0	60	478-3229-1-ND†	11.00	9.57	8.36	478-3229-2-ND†	400	1601.60	NOSE687M002R0060
	1000	20	V	18	50.0	50	478-3230-1-ND†	11.90	10.36	9.05	478-3230-2-ND†	400	1732.80	NOSV108M002R0050
4	15	20	A	6	1.2	1500	478-3231-1-ND†	.88	.77	.67	478-3231-2-ND†	2,000	298.00/M	NOSA156M004R1500
	22	20	B	6	1.8	600	478-3232-1-ND†	1.08	.94	.82	478-3232-2-ND†	2,000	366.00/M	NOSB226M004R0600
	47	20	W	6	3.8	150	478-3233-1-ND†	3.00	2.61	2.28	478-3233-2-ND†	1,000	1092.00	NOSW476M004R0150
	68	20	C	6	5.4	200	478-3234-1-ND†	2.25	1.96	1.71	478-3234-2-ND†	500	409.50	NOSC686M004R0200
	100	20	C	6	8.0	70	478-3235-1-ND†	2.81	2.45	2.14	478-3235-2-ND†	500	511.50	NOSC107M004R0070
	100	20	X	6	8.0	100	478-3236-1-ND†	6.00	5.22	4.56	478-3236-2-ND†	1,000	2184.00	NOSX107M004R0100
	150	20	Y	6	12.0	100	478-3237-1-ND†	6.00	5.22	4.56	478-3237-2-ND†	1,000	2184.00	NOSY157M004R0100
	150	20	C	6	12.0	90	478-3238-1-ND†	2.95	2.57	2.25	478-3238-2-ND†	500	537.00	NOSC157M004R0090
	220	20	D	8	17.6	60	478-3239-1-ND†	9.95	8.66	7.57	478-3239-2-ND†	500	1811.00	NOSD227M004R0060
	220	20	D	8	17.6	100	478-3240-1-ND†	3.60	3.14	2.74	478-3240-2-ND†	500	655.00	NOSD227M004R0100
	470	20	E	12	37.6	75	478-3241-1-ND†	9.95	8.66	7.57	478-3241-2-ND†	400	1448.80	NOSE477M004R0075
	680	20	V	14	54.4	75	478-3242-1-ND†	11.90	10.36	9.05	478-3242-2-ND†	400	1732.80	NOSV687M004R0075
	330	20	D	8	26.4	100	478-1830-1-ND	3.60	3.14	2.74	478-1830-2-ND	500	655.00	NOSD337M004R0100
6.3	10	20	A	6	1.2	2000	478-3243-1-ND†	.88	.77	.67	478-3243-2-ND†	2,000	298.00/M	NOSA106M006R2000
	22	20	B	6	2.6	600	478-3244-1-ND†	1.08	.94	.82	478-3244-2-ND†	2,000	366.00/M	NOSB226M006R0600
	33	20	B	6	4.0	600	478-3245-1-ND†	1.08	.94	.82	478-3245-2-ND†	2,000	366.00/M	NOSB336M006R0600
	33	20	W	6	4.0	250	478-3252-1-ND†	3.00	2.61	2.28	478-3252-2-ND†	1,000	1092.00	NOSW336M006R0250
	68	20	C	6	8.2	200	478-3246-1-ND†	2.35	2.05	1.79	478-3246-2-ND†	500	427.50	NOSC686M006R0200
	100	20	D	6	12.0	100	478-1829-1-ND	2.35	2.05	1.79	478-1829-2-ND	500	427.50	NOSD107M006R0100
	100	20	D	6	12.0	80	478-3247-1-ND†	9.95	8.66	7.57	478-3247-2-ND†	500	1811.00	NOSD107M006R0080
	150	20	D	6	18.0	70	478-3248-1-ND†	9.95	8.66	7.57	478-3248-2-ND†	500	1811.00	NOSD157M006R0070
	220	20	D	8	26.4	100	478-3249-1-ND†	4.25	3.70	3.23	478-3249-2-ND†	500	773.50	NOSD227M006R0100
	220	20	E	12	26.4	80	478-3250-1-ND†	8.80	7.66	6.69	478-3250-2-ND†	400	1281.20	NOSE227M006R0080
	330	20	E	12	39.6	80	478-3251-1-ND†	8.80	7.66	6.69	478-3251-2-ND†	400	1281.20	NOSE337M006R0080
	470	20	V	12	56.4	75	478-3253-1-ND†	11.90	10.36	9.05	478-3253-2-ND†	400	1732.80	NOSV477M006R0075

†RoHS Compliant

Tantalum Dipped / Radial Capacitors

T350 and T356 "UltraDip II" Series

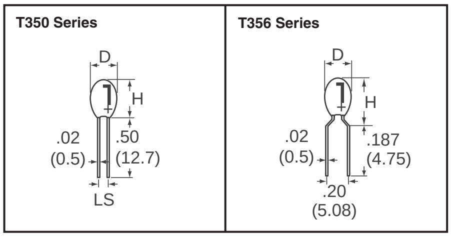

The KEMET "UltraDip II" Series, miniature dipped solid tantalum capacitors, provide the designer with the advantage of compactness plus low leakage and low DF performance characteristics for filtering, bypassing, coupling, blocking and RC timing circuits.

The plastic case provides a tough barrier coating and maintains precision of lead wire spacing within ±0.015 inch.

All case sizes are printed with capacitance, voltage, polarity and vendor identification, these self-insulating cases are resistant to shock and vibration.

The gold color epoxy permits Laser marking with outstanding permanency and legibility.

Solid tantalum devices exhibit no degradation failure mode during shelf storage.

These capacitors exhibit low DCL, ESR and Impedance and have excellent temperature stability. *The ESR values provided are for reference only.*

- **Operating Temperature:** -55°C~85°C (125°C with voltage derating)
- **Capacitance Tolerance (%):** ±10

RoHS Compliant part numbers available

WV (DC)	Cap. (µF)	ESRΩ @ 100KHz @ +25°C	D.C.L. µA@ 25°C	Max. DF % @25°C 120Hz	Dimensions (mm)			Digi-Key Part No.	Price Each			Kemet Part No.
					D	H	LS		1	10	100	
T350 Series												
6.3	15	5	0.7	6	5.0	8.4	2.54	399-1380-ND	.66	.57	.45	T350C156K006AS
	68	1.8	3.3	6	6.3	10.2	2.54	399-1384-ND	1.10	.95	.75	T350G686K006AS
	100	1.6	4.8	8	7.6	10.2	2.54	399-1385-ND	2.60	2.23	1.75	T350H107K006AS
10	3.3	10	0.5	5	4.5	7.1	2.54	399-1388-ND	.48	.42	.33	T350A335K010AS
	6.8	6	0.5	5	4.5	7.6	2.54	399-1390-ND	.66	.57	.45	T350B685K010AS
	15	3.7	1.2	6	5.5	8.9	2.54	399-1392-ND	.78	.68	.53	T350E156K010AS
	22	2.7	1.8	6	5.5	8.9	2.54	399-1393-ND	.88	.76	.60	T350E226K010AS
	33	2.1	2.6	6	6.0	9.9	2.54	399-1394-ND	1.03	.89	.70	T350F336K010AS
	68	1.3	5.4	6	7.6	10.2	2.54	399-1396-ND	2.60	2.23	1.75	T350H686K010AS
	100	1	8.0	8	8.4	12.7	5.08	399-1397-ND	3.33	2.86	2.24	T350J107K010AS
16	6.8	4	0.9	5	5.0	8.4	2.54	399-1402-ND	.69	.59	.47	T350C685K016AS
	10	3.2	1.3	6	5.5	8.9	2.54	399-1403-ND	.96	.71	.51	T350E106K016AS
	22	2	2.6	6	6.0	9.9	2.54	399-1405-ND	1.26	.94	.67	T350F226K016AS
25	4.7	4	0.9	5	5.0	8.4	2.54	399-1416-ND	.71	.61	.48	T350C475K025AS
	6.8	3.1	1.4	5	5.5	8.9	2.54	399-1417-ND	.93	.80	.63	T350E685K025AS
	47	1	9.4	6	8.9	13.5	5.08	399-1422-ND	5.07	4.35	3.41	T350K476K025AS
35	.15	21	0.5	3	4.5	7.1	2.54	399-1424-ND	.48	.42	.33	T350A154K035AS
	3.3	4	0.9	5	5.0	8.6	2.54	399-1432-ND	.74	.63	.50	T350D335K035AS
	4.7	3	1.3	5	5.5	8.9	2.54	399-1433-ND	.78	.68	.53	T350E475K035AS
	10	2	2.8	6	6.3	10.2	2.54	399-1435-ND	2.03	1.50	1.07	T350G106K035AS
	15	1.6	4.2	6	8.4	12.7	5.08	399-1436-ND	3.14	2.69	2.11	T350J156K035AS
50	.10	26	0.5	3	4.5	7.1	2.54	399-1439-ND	.53	.45	.36	T350A104K050AS
	.15	21	0.5	3	4.5	7.1	2.54	399-1440-ND	.53	.45	.36	T350A154K050AS
	.22	17	0.5	3	4.5	7.1	2.54	399-1441-ND	.53	.45	.36	T350A224K050AS
	.68	10	0.5	3	4.5	7.6	2.54	399-1444-ND	.59	.51	.40	T350B684K050AS
	1.0	8	0.5	3	4.5	7.6	2.54	399-1445-ND	.59	.51	.40	T350B105K050AS
	1.5	5	0.6	5	5.5	8.9	2.54	399-1446-ND	.88	.76	.60	T350E155K050AS
	10	1.6	4.0	6	8.9	13.5	5.08	399-1451-ND	5.32	4.56	3.58	T350K106K050AS
T350 Series — RoHS Compliant												
6.3	4.7	10	0.5	5	4.5	7.1	2.54	399-3543-ND	.39	.34	.27	T350A475K006AT
	6.8	8	0.5	5	4.5	7.1	2.54	399-3546-ND	.48	.42	.33	T350A685K006AT
	10	6	0.5	6	4.5	7.6	2.54	399-3548-ND	.59	.51	.40	T350B106K006AT
	15	5	0.7	6	5.0	8.4	2.54	399-3557-ND	.66	.57	.45	T350C156K006AT
	22	3.7	1.1	6	5.0	8.6	2.54	399-3561-ND	.78	.68	.53	T350D226K006AT
	33	3	1.6	6	5.5	8.9	2.54	399-3571-ND	.83	.72	.56	T350E336K006AT
	47	2	2.3	6	6.0	9.9	2.54	399-3577-ND	.93	.80	.63	T350F476K006AT
	68	1.8	3.3	6	6.3	10.2	2.54	399-3582-ND	1.10	.95	.75	T350G686K006AT
	100	1.6	4.8	8	7.6	10.2	2.54	399-3583-ND	2.60	2.23	1.75	T350H107K006AT
	150	0.9	7.2	8	8.4	12.7	5.08	399-3590-ND	3.33	2.86	2.24	T350J157K006AT
10	2.2	13	0.5	5	4.5	7.1	2.54	399-3536-ND	.48	.42	.33	T350A225K010AT
	3.3	10	0.5	5	4.5	7.1	2.54	399-3540-ND	.48	.42	.33	T350A335K010AT
	4.7	8	0.5	5	4.5	7.1	2.54	399-3544-ND	.48	.42	.33	T350A475K010AT
	6.8	6	0.5	5	4.5	7.6	2.54	399-3555-ND	.66	.57	.45	T350B685K010AT
	10	5	0.8	6	5.0	8.4	2.54	399-3556-ND	.66	.57	.45	T350C106K010AT
	15	3.7	1.2	6	5.5	8.9	2.54	399-3567-ND	.78	.68	.53	T350E156K010AT
	22	2.7	1.8	6	5.5	8.9	2.54	399-3570-ND	.88	.76	.60	T350E226K010AT
	33	2.1	2.6	6	6.0	9.9	2.54	399-3576-ND	1.03	.89	.70	T350F336K010AT
	47	1.7	3.8	6	7.6	10.2	2.54	399-3586-ND	1.81	1.56	1.22	T350H476K010AT
	68	1.3	5.4	6	7.6	10.2	2.54	399-3587-ND	2.60	2.23	1.75	T350H686K010AT
	100	1	8.0	8	8.4	12.7	5.08	399-3588-ND	3.33	2.86	2.24	T350J107K010AT
16	1.5	10	0.5	5	4.5	7.1	2.54	399-3532-ND	.48	.42	.33	T350A155K016AT
	2.2	8	0.5	5	4.5	7.1	2.54	399-3537-ND	.48	.42	.33	T350A225K016AT
	3.3	6	0.5	5	4.5	7.1	2.54	399-3541-ND	.48	.42	.33	T350A335K016AT
	4.7	5	0.6	5	4.5	7.6	2.54	399-3553-ND	.59	.51	.40	T350B475K016AT
	6.8	4	0.9	5	5.0	8.4	2.54	399-3560-ND	.69	.59	.47	T350C685K016AT
	10	3.2	1.3	6	5.5	8.9	2.54	399-3563-ND	.71	.61	.48	T350E106K016AT
	15	2.5	1.8	6	5.5	8.9	2.54	399-3568-ND	.93	.80	.63	T350E156K016AT
	22	2	2.6	6	6.0	9.9	2.54	399-3574-ND	.93	.80	.63	T350F226K016AT
	33	1.6	4.0	6	7.6	10.2	2.54	399-3585-ND	1.81	1.56	1.22	T350H336K016AT
	47	1.3	5.6	6	8.4	12.7	5.08	399-3592-ND	2.77	2.38	1.87	T350J476K016AT
	68	1	8.2	6	8.9	13.5	5.08	399-3597-ND	3.33	2.86	2.24	T350K686K016AT
	100	0.8	10.0	8	8.9	16.0	5.08	399-3598-ND	7.14	6.12	4.80	T350L107K016AT
20	10	2.9	1.6	6	5.5	8.9	2.54	399-3564-ND	.88	.76	.60	T350E106K020AT
	100	0.6	10.0	8	10.2	17.0	5.08	399-3599-ND	8.18	7.02	5.50	T350M107K020AT
25	1.0	10	0.5	3	4.5	7.1	2.54	399-3528-ND	.48	.42	.33	T350A105K025AT
	1.5	8	0.5	5	4.5	7.1	2.54	399-3533-ND	.48	.42	.33	T350A155K025AT
25	2.2	6	0.5	5	4.5	7.6	2.54	399-3550-ND	.59	.51	.40	T350B225K025AT
	3.3	5	0.7	5	4.5	7.6	2.54	399-3551-ND	.59	.51	.40	T350B335K025AT
	4.7	4	0.9	5	5.0	8.4	2.54	399-3559-ND	.71	.61	.48	T350C475K025AT
	6.8	3.1	1.4	5	5.5	8.9	2.54	399-3573-ND	.93	.80	.63	T350E685K025AT
	10	2.5	2.0	6	5.5	8.9	2.54	399-3565-ND	.93	.80	.63	T350E106K025AT
	15	2	3.0	6	6.3	10.2	2.54	399-3580-ND	2.00	1.71	1.34	T350G156K025AT
	22	1.5	4.4	6	7.6	10.2	2.54	399-3584-ND	2.60	2.23	1.75	T350H226K025AT
	33	1.2	6.6	6	8.4	12.7	5.08	399-3591-ND	3.33	2.86	2.24	T350J336K025AT
	47	1	9.4	6	8.9	13.5	5.08	399-3596-ND	5.07	4.35	3.41	T350K476K025AT
35	.10	26	0.5	3	4.5	7.1	2.54	399-3526-ND	.48	.42	.33	T350A104K035AT
	.15	21	0.5	3	4.5	7.1	2.54	399-3530-ND	.48	.42	.33	T350A154K035AT
	.22	17	0.5	3	4.5	7.1	2.54	399-3534-ND	.48	.42	.33	T350A224K035AT
	.33	15	0.5	3	4.5	7.1	2.54	399-3538-ND	.48	.42	.33	T350A334K035AT
	.47	13	0.5	3	4.5	7.1	2.54	399-3542-ND	.48	.42	.33	T350A474K035AT
	.68	10	0.5	3	4.5	7.1	2.54	399-3545-ND	.48	.42	.33	T350A684K035AT
	1.0	8	0.5	3	4.5	7.1	2.54	399-3529-ND	.48	.42	.33	T350A105K035AT
	1.5	6	0.5	5	4.5	7.6	2.54	399-3549-ND	.54	.47	.37	T350B155K035AT
	2.2	5	0.6	5	5.0	8.4	2.54	399-3558-ND	.59	.51	.40	T350C225K035AT
	3.3	4	0.9	5	5.0	8.6	2.54	399-3562-ND	.74	.63	.50	T350D335K035AT
	4.7	3	1.3	5	5.5	8.9	2.54	399-3572-ND	.78	.68	.53	T350E475K035AT
	6.8	2.5	1.9	5	6.0	9.9	2.54	399-3578-ND	.88	.76	.60	T350F685K035AT
	10	2	2.8	6	6.3	10.2	2.54	399-3579-ND	1.50	1.29	1.01	T350G106K035AT
	15	1.6	4.2	6	8.4	12.7	5.08	399-3589-ND	3.14	2.69	2.11	T350J156K035AT
	22	1.3	6.2	6	8.9	13.5	5.08	399-3595-ND	3.14	2.69	2.11	T350K226K035AT
	47	0.8	10.0	6	10.2	17.0	5.08	399-3600-ND	8.18	7.02	5.50	T350M476K035AT
50	.10	26	0.5	3	4.5	7.1	2.54	399-3527-ND	.53	.45	.36	T350A104K050AT
	.15	21	0.5	3	4.5	7.1	2.54	399-3531-ND	.53	.45	.36	T350A154K050AT
	.22	17	0.5	3	4.5	7.1	2.54	399-3535-ND	.53	.45	.36	T350A224K050AT
	.33	15	0.5	3	4.5	7.1	2.54	399-3539-ND	.53	.45	.36	T350A334K050AT
	.47	13	0.5	3	4.5	7.6	2.54	399-3552-ND	.59	.51	.40	T350B474K050AT
	.68	10	0.5	3	4.5	7.6	2.54	399-3554-ND	.59	.51	.40	T350B684K050AT
	1.0	8	0.5	3	4.5	7.6	2.54	399-3547-ND	.59	.51	.40	T350B105K050AT
	1.5	5	0.6	5	5.5	8.9	2.54	399-3566-ND	.88	.76	.60	T350E155K050AT
	2.2	3.5	0.9	5	5.5	8.9	2.54	399-3569-ND	.93	.80	.63	T350E225K050AT
	3.3	3	1.3	5	6.0	9.9	2.54	399-3575-ND	1.03	.89	.70	T350F335K050AT
	4.7	2.5	1.9	5	6.3	10.2	2.54	399-3581-ND	1.29	1.11	.87	T350G475K050AT
	6.8	2	2.7	5	8.4	12.7	5.08	399-3593-ND	3.02	2.60	2.04	T350J685K050AT
	10	1.6	4.0	6	8.9	13.5	5.08	399-3594-ND	5.32	4.56	3.58	T350K106K050AT
T356 Series												
6.3	6.8	8	0.5	5	4.5	8.6	5.08	399-1303-ND	.48	.42	.33	T356A685K006AS
	15	5	0.7	6	5.0	9.6	5.08	399-1305-ND	.66	.57	.45	T356C156K006AS
	22	3.7	1.1	6	5.0	9.9	5.08	399-1306-ND	.78	.68	.53	T356D226K006AS
	33	3	1.6	6	5.5	10.2	5.08	399-1307-ND	.83	.72	.56	T356E336K006AS
	68	1.8	3.3	6	6.3	11.4	5.08	399-1309-ND	1.10	.95	.75	T356G686K006AS
	150	0.9	7.2	8	8.4	14.0	5.08	399-1311-ND	3.33	2.86	2.24	T356J157K006AS
10	3.3	10	0.5	5	4.5	8.6	5.08	399-1313-ND	.48	.42	.33	T356A335K010AS
	6.8	6	0.5	5	4.5	8.9	5.08	399-1315-ND	.66	.57	.45	T356B685K010AS
	10	5	0.8	6	5.0	9.6	5.08	399-1316-ND	.66	.57	.45	T356C106K010AS
	15	3.7	1.2	6	5.5	10.2	5.08	399-1317-ND	.78	.68	.53	T356E156K010AS
	100	1	8.0	8	8.4	14.0	5.08	399-1322-ND	3.33	2.86	2.24	T356J107K010AS
16	1.5	10	0.5	5	4.5	8.6	5.08	399-1323-ND	.48	.42	.33	T356A155K016AS
	3.3	6	0.5	5	4.5	8.6	5.08	399-1325-ND	.48	.42	.33	T356A335K016AS
	4.7	5	0.6	5	4.5	8.9	5.08	399-1326-ND	.59	.51	.40	T356B475K016AS
	6.8	4	0.9	5	5.0	9.6	5.08	399-1327-ND	.69	.59	.47	T356C685K016AS
	33	1.6	4.0	6	7.6	11.9	5.08	399-1331-ND	1.81	1.56	1.22	T356H336K016AS
	68	1	8.2	6	8.9	15.5	5.08	399-1333-ND	3.33	2.86	2.24	T356K686K016AS
20	100	0.6	10.0	8	10.2	18.8	5.08	399-1336-ND	8.18	7.02	5.50	T356M107K020AS
25	1.0	10	0.5	3	4.5	8.6	5.08	399-1337-ND	.48	.42	.33	T356A105K025AS
	1.5	8	0.5	5	4.5	8.6	5.08	399-1338-ND	.48	.42	.33	T356A155K025AS
	4.7	4	0.9	5	5.0	9.6	5.08	399-1341-ND	.71	.61	.48	T356C475K025AS
	6.8	3.1	1.4	5	5.5	10.2	5.08	399-1342-ND	.93	.80	.63	T356E685K025AS
35	.15	21	0.5	3	4.5	8.6	5.08	399-1349-ND	.48	.42	.33	T356A154K035AS
	.33	15	0.5	3	4.5	8.6	5.08	399-1351-ND	.48	.42	.33	T356A334K035AS
	.68	10	0.5	3	4.5	8.6	5.08	399-1353-ND	.48	.42	.33	T356A684K035AS
	3.3	4	0.9	5	5.0	9.9	5.08	399-1357-ND	.74	.63	.50	T356D335K035AS
	6.8	2.5	1.9	5	6.0	11.2	5.08	399-1359-ND	.88	.76	.60	T356F685K035AS
50	.15	21	0.5	3	4.5	8.6	5.08	399-1365-ND	.53	.45	.36	T356A154K050AS

(Continued)

Tantalum Dipped / Radial Capacitors *(Cont.)*

T350 and T356 "UltraDip II" Series

WV (DC)	Cap. (µF)	ESRΩ @ 100KHz @ +25°C	D.C.L. µA@ 25°C	Max. DF % @25°C 120Hz	Dimensions (mm)			Digi-Key Part No.	Price Each			Kemet Part No.
					D	H	LS		1	10	100	
50	.22	17	0.5	3	4.5	8.6	5.08	399-1366-ND	.53	.45	.36	T356A224K050AS
	.33	15	0.5	3	4.5	8.6	5.08	399-1367-ND	.53	.45	.36	T356A334K050AS
	.47	13	0.5	3	4.5	8.9	5.08	399-1368-ND	.59	.51	.40	T356B474K050AS
	.68	10	0.5	3	4.5	8.9	5.08	399-1369-ND	.59	.51	.40	T356B684K050AS
	1.5	5	0.6	5	5.5	10.2	5.08	399-1371-ND	.88	.76	.60	T356E155K050AS
	6.8	2	2.7	5	8.4	14.0	5.08	399-1375-ND	3.02	2.60	2.04	T356J685K050AS
T356 Series — RoHS Compliant												
6.3	4.7	10	0.5	5	4.5	8.6	5.08	399-3618-ND	.39	.34	.27	T356A475K006AT
	6.8	8	0.5	5	4.5	8.6	5.08	399-3621-ND	.48	.42	.33	T356A685K006AT
	10	6	0.5	6	4.5	8.9	5.08	399-3623-ND	.59	.51	.40	T356B106K006AT
	15	5	0.7	6	5.0	9.6	5.08	399-3632-ND	.66	.57	.45	T356C156K006AT
	22	3.7	1.1	6	5.0	9.9	5.08	399-3636-ND	.78	.68	.53	T356D226K006AT
	33	3	1.6	6	5.5	10.2	5.08	399-3646-ND	.83	.72	.56	T356E336K006AT
	47	2	2.3	6	6.0	11.2	5.08	399-3652-ND	.93	.80	.63	T356F476K006AT
	68	1.8	3.3	6	6.3	11.4	5.08	399-3657-ND	1.10	.95	.75	T356G686K006AT
	100	1.6	4.8	8	7.6	11.9	5.08	399-3658-ND	2.60	2.23	1.75	T356H107K006AT
	150	0.9	7.2	8	8.4	14.0	5.08	399-3665-ND	3.33	2.86	2.24	T356J157K006AT
10	2.2	13	0.5	5	4.5	8.6	5.08	399-3611-ND	.48	.42	.33	T356A225K010AT
	3.3	10	0.5	5	4.5	8.6	5.08	399-3615-ND	.48	.42	.33	T356A335K010AT
	4.7	8	0.5	5	4.5	8.6	5.08	399-3619-ND	.48	.42	.33	T356A475K010AT
	6.8	6	0.5	5	4.5	8.9	5.08	399-3630-ND	.66	.57	.45	T356B685K010AT
	10	5	0.8	6	5.0	9.6	5.08	399-3631-ND	.66	.57	.45	T356C106K010AT
	15	3.7	1.2	6	5.5	10.2	5.08	399-3642-ND	.78	.68	.53	T356E156K010AT
	22	2.7	1.8	6	5.5	10.2	5.08	399-3645-ND	.88	.76	.60	T356E226K010AT
	33	2.1	2.6	6	6.0	11.2	5.08	399-3651-ND	1.03	.89	.70	T356F336K010AT
	47	1.7	3.8	6	7.6	11.9	5.08	399-3661-ND	1.81	1.56	1.22	T356H476K010AT
	68	1.3	5.4	6	7.6	11.9	5.08	399-3662-ND	2.60	2.23	1.75	T356H686K010AT
	100	1	8.0	8	8.4	14.0	5.08	399-3663-ND	3.33	2.86	2.24	T356J107K010AT
15	1.5	10	0.5	5	4.5	8.6	5.08	399-3607-ND	.48	.42	.33	T356A155K016AT
	2.2	8	0.5	5	4.5	8.6	5.08	399-3612-ND	.48	.42	.33	T356A225K016AT
	3.3	6	0.5	5	4.5	8.6	5.08	399-3616-ND	.48	.42	.33	T356A335K016AT
	4.7	5	0.6	5	4.5	8.9	5.08	399-3628-ND	.59	.51	.40	T356B475K016AT
	6.8	4	0.9	5	5.0	9.6	5.08	399-3635-ND	.69	.59	.47	T356C685K016AT
	10	3.2	1.3	6	5.5	10.2	5.08	399-3638-ND	.71	.61	.48	T356E106K016AT
	15	2.5	1.8	6	5.5	10.2	5.08	399-3643-ND	.93	.80	.63	T356E156K016AT
	22	2	2.6	6	6.0	11.2	5.08	399-3649-ND	.93	.80	.63	T356F226K016AT
	33	1.6	4.0	6	7.6	11.9	5.08	399-3660-ND	1.81	1.56	1.22	T356H336K016AT
	47	1.3	5.6	6	8.4	14.0	5.08	399-3667-ND	2.77	2.38	1.87	T356J476K016AT
	68	1	8.2	6	8.9	15.5	5.08	399-3672-ND	3.33	2.86	2.24	T356K686K016AT
	100	0.8	10.0	8	8.9	18.1	5.08	399-3673-ND	7.14	6.12	4.80	T356L107K016AT
20	10	2.9	1.6	6	5.5	10.2	5.08	399-3639-ND	.88	.76	.60	T356E106K020AT
	100	0.6	10.0	8	10.2	18.8	5.08	399-3674-ND	8.18	7.02	5.50	T356M107K020AT
25	1.0	10	0.5	3	4.5	8.6	5.08	399-3603-ND	.48	.42	.33	T356A105K025AT
	1.5	8	0.5	5	4.5	8.6	5.08	399-3608-ND	.48	.42	.33	T356A155K025AT
	2.2	6	0.5	5	4.5	8.9	5.08	399-3625-ND	.59	.51	.40	T356B225K025AT
	3.3	5	0.7	5	4.5	8.9	5.08	399-3626-ND	.59	.51	.40	T356B335K025AT
	4.7	4	0.9	5	5.0	9.6	5.08	399-3634-ND	.71	.61	.48	T356C475K025AT
	6.8	3.1	1.4	5	5.5	10.2	5.08	399-3648-ND	.93	.80	.63	T356E685K025AT
	10	2.5	2.0	6	5.5	10.2	5.08	399-3640-ND	.93	.80	.63	T356E106K025AT
	15	2	3.0	6	6.3	11.4	5.08	399-3655-ND	2.00	1.71	1.34	T356G156K025AT
	22	1.5	4.4	6	7.6	11.9	5.08	399-3659-ND	2.60	2.23	1.75	T356H226K025AT
	33	1.2	6.6	6	8.4	14.0	5.08	399-3666-ND	3.33	2.86	2.24	T356J336K025AT
	47	1.2	9.4	6	8.9	15.5	5.08	399-3671-ND	5.07	4.35	3.41	T356K476K025AT
35	.10	26	0.5	3	4.5	8.6	5.08	399-3601-ND	.48	.42	.33	T356A104K035AT
	.15	21	0.5	3	4.5	8.6	5.08	399-3605-ND	.48	.42	.33	T356A154K035AT
	.22	17	0.5	3	4.5	8.6	5.08	399-3609-ND	.48	.42	.33	T356A224K035AT
	.33	15	0.5	3	4.5	8.6	5.08	399-3613-ND	.48	.42	.33	T356A334K035AT
	.47	13	0.5	3	4.5	8.6	5.08	399-3617-ND	.48	.42	.33	T356A474K035AT
	.68	10	0.5	3	4.5	8.6	5.08	399-3620-ND	.48	.42	.33	T356A684K035AT
	1.0	8	0.5	3	4.5	8.6	5.08	399-3604-ND	.48	.42	.33	T356A105K035AT
	1.5	6	0.5	5	4.5	8.9	5.08	399-3624-ND	.54	.47	.37	T356B155K035AT
	2.2	5	0.6	5	5.0	9.6	5.08	399-3633-ND	.59	.51	.40	T356C225K035AT
	3.3	4	0.9	5	5.0	9.9	5.08	399-3637-ND	.74	.63	.50	T356D335K035AT
	4.7	3	1.3	5	5.5	10.2	5.08	399-3647-ND	.78	.68	.53	T356E475K035AT
	6.8	2.5	1.9	5	6.0	11.2	5.08	399-3653-ND	.88	.76	.60	T356F685K035AT
	10	2	2.8	6	6.3	11.4	5.08	399-3654-ND	1.50	1.29	1.01	T356G106K035AT
	15	1.6	4.2	6	8.4	14.0	5.08	399-3664-ND	3.14	2.69	2.11	T356J156K035AT
	22	1.3	6.2	6	8.9	15.5	5.08	399-3670-ND	3.14	2.69	2.11	T356K226K035AT
	47	0.8	10.0	6	10.2	18.8	5.08	399-3675-ND	8.18	7.02	5.50	T356M476K035AT
50	.10	26	0.5	3	4.5	8.6	5.08	399-3602-ND	.53	.45	.36	T356A104K050AT
	.15	21	0.5	3	4.5	8.6	5.08	399-3606-ND	.53	.45	.36	T356A154K050AT
	.22	17	0.5	3	4.5	8.6	5.08	399-3610-ND	.53	.45	.36	T356A224K050AT
	.33	15	0.5	3	4.5	8.6	5.08	399-3614-ND	.53	.45	.36	T356A334K050AT
	.47	13	0.5	3	4.5	8.9	5.08	399-3627-ND	.59	.51	.40	T356B474K050AT
	.68	10	0.5	3	4.5	8.9	5.08	399-3629-ND	.59	.51	.40	T356B684K050AT
	1.0	8	0.5	3	4.5	8.9	5.08	399-3622-ND	.59	.51	.40	T356B105K050AT
	1.5	5	0.6	5	5.5	10.2	5.08	399-3641-ND	.88	.76	.60	T356E155K050AT
	2.2	3.5	0.9	5	5.5	10.2	5.08	399-3644-ND	.93	.80	.63	T356E225K050AT
	3.3	3	1.3	5	6.0	11.2	5.08	399-3650-ND	1.03	.89	.70	T356F335K050AT
	4.7	2.5	1.9	5	6.3	11.4	5.08	399-3656-ND	1.29	1.11	.87	T356G475K050AT
	6.8	2	2.7	5	8.4	14.0	5.08	399-3668-ND	3.02	2.60	2.04	T356J685K050AT
	10	1.6	4.0	6	8.9	15.5	5.08	399-3669-ND	5.32	4.56	3.58	T356K106K050AT

High-Temperature Wet Tantalum Capacitors

Applications: • Filtering, bypass circuits • Coupling and timing circuits • Low source impedance circuits • High charging current circuits **Features:** • Operating temperature: -55°C ~ 200°C, derated voltage • Volts, 6-125 • Low ESR • Tantalum case

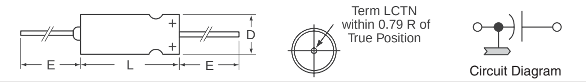

Circuit Diagram

WV (DC)	Cap. (µF)	Cap. Tol.	Maximum D.C. Leakage µA@25°C	Max. DF @25°C 120Hz	Max. ESR Ω @25°C 120Hz	Max. Ripple Current mArms @85°C 40kHz	Dimensions - mm			Kemet Case Size	MIL-PRF-39006/22/ 25/30/31 Case Size	Digi-Key Part No.	Price Each			Kemet Part No.
							L (Maximum)	D (Maximum)	E ± 6.35				1	10	100	
6V@85°C (3V@200°C)	30	10%	1	9	3.98	820	12.29	5.56	38.10	A	T1	399-3412-ND	30.00	22.50	18.00	T197A306K006AS
8V@85°C (4V@200°C)	56	10%	1	14	3.32	900	12.29	5.56	38.10	A	T1	399-3415-ND	30.00	22.50	18.00	T197A566K008AS
10V@85°C (5V@200°C)	20	10%	1	6	3.98	820	12.29	5.56	38.10	A	T1	399-3409-ND	30.00	22.50	18.00	T197A206K010AS
	47	10%	1	13	3.67	855	12.29	5.56	38.10	A	T1	399-3414-ND	30.00	22.50	18.00	T197A476K010AS
15V@85°C (7.5V@200°C)	15	10%	1	5	4.42	780	12.29	5.56	38.10	A	T1	399-3406-ND	30.00	22.50	18.00	T197A156K015AS
	100	10%	2	30	3.98	900	12.29	5.56	38.10	A	T1	399-3424-ND	34.00	25.50	20.40	T198A107K015AS
25V@85°C (12.5V@200°C)	10	10%	1	4	5.31	715	12.29	5.56	38.10	A	T1	399-3404-ND	30.00	22.50	18.00	T197A106K025AS
	22	10%	1	7	4.22	800	12.29	5.56	38.10	A	T1	399-3410-ND	30.00	22.50	18.00	T197A226K025AS
	68	10%	2	22	4.29	850	12.29	5.56	38.10	A	T1	399-3428-ND	34.00	25.50	20.40	T198A686K025AS
	270	10%	3	55	2.70	1400	17.07	7.92	57.15	B	T2	399-3432-ND	44.00	33.00	26.40	T198B277K025AS
30V@85°C (15V@200°C)	15	20%	1	5	4.42	780	12.29	5.56	38.10	A	T1	399-3407-ND	30.00	22.50	18.00	T197A156M030AS
	56	10%	2	22	5.21	800	12.29	5.56	38.10	A	T1	399-3427-ND	34.00	25.50	20.40	T198A566K030AS
50V@85°C (25V@200°C)	10	10%	1	4	5.31	715	12.29	5.56	38.10	A	T1	399-3405-ND	30.00	22.50	18.00	T197A106K050AS
	47	10%	1	13	3.67	1155	17.07	7.92	57.15	B	T2	399-3420-ND	40.00	30.00	24.00	T197B476K050AS
	33	10%	2	12.3	4.95	700	12.29	5.56	38.10	A	T1	399-3426-ND	34.00	25.50	20.40	T198A336K050AS
	120	10%	4	22.5	2.49	1200	17.07	7.92	57.15	B	T2	399-3430-ND	44.00	33.00	26.40	T198B127K050AS
	330	10%	9	38	1.53	1900	27.76	10.31	57.15	D	T4	399-3434-ND	70.00	52.50	42.00	T198D337K050AS
60V@85°C (30V@200°C)	39	10%	1	12	4.08	1110	17.07	7.92	57.15	B	T2	399-3419-ND	40.00	30.00	24.00	T197B396K060AS
	100	10%	4	19	2.52	1100	17.07	7.92	57.15	B	T2	399-3429-ND	44.00	33.00	26.40	T198B107K060AS
75V@85°C (37.5V@200°C)	6.8	10%	1	3.5	6.83	610	12.29	5.56	38.10	A	T1	399-3416-ND	30.00	22.50	18.00	T197A685K075AS
	15	10%	1	6	5.31	890	17.07	7.92	57.15	B	T2	399-3417-ND	40.00	30.00	24.00	T197B156K075AS
	22	10%	3	8.5	5.13	600	12.29	5.56	38.10	A	T1	399-3425-ND	34.00	25.50	20.40	T198A226K075AS
	33	10%	1	10	4.02	1000	17.07	7.92	57.15	B	T2	399-3418-ND	40.00	30.00	24.00	T197B336K075AS
	82	10%	4	15.2	2.46	1000	17.07	7.92	57.15	B	T2	399-3433-ND	44.00	33.00	26.40	T198B826K075AS
100V@85°C (50V@200°C)	2.5	10%	1	2	10.62	505	12.29	5.56	38.10	A	T1	399-3411-ND	30.00	22.50	18.00	T197A255K100AS
	10	10%	3	4.5	5.97	800	12.29	5.56	38.10	A	T1	399-3423-ND	34.00	25.50	20.40	T198A106K100AS
125V@85°C (62.5V@200°C)	1.7	10%	1	2	15.61	415	12.29	5.56	38.10	A	T1	399-3408-ND	30.00	22.50	18.00	T197A175K125AS
	3.6	10%	1	3	11.05	520	12.29	5.56	38.10	A	T1	399-3413-ND	30.00	22.50	18.00	T197A365K125AS
	27	10%	5	7.2	3.54	1200	17.07	7.92	57.15	B	T2	399-3431-ND	44.00	33.00	26.40	T198B276K125AS
	56	10%	10	6.5	1.54	1800	27.76	10.31	57.15	D	T4	399-3422-ND	62.00	46.50	37.20	T197D566K125AS
	82	10%	12	17.4	2.82	1900	27.76	10.31	57.15	D	T4	399-3435-ND	70.00	52.50	42.00	T198D826K125AS

KEMET
CHARGED.

Molded Axial Tantalum Capacitors

T322 Series

The KEMET T322 Series offers a complete line of extended range molded solid tantalum capacitors. These capacitors offer an extremely high capacitance-to-volume ratio while still maintaining excellent performance characteristics.

Applications: Decoupling, blocking, bypassing and filtering in commercial computers, data processing, communications, and other electronic equipment. The low ESR/impedance at high frequencies offered by this capacitor is especially suitable for decoupling required by high speed computers. The ESR values provided are for reference only.

Specifications: Capacitance Tolerance (%): ±10 • Operating Temperature: -55°C ~ 85°C (125°C with voltage derating)

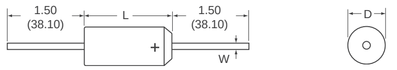

WV (DC)	Cap. (µF)	ESR Ω @ 100KHz @ +25°C	D.C. Leakage µA @ 25°C	Max. DF % @ 25°C 120Hz	Dimensions (mm) D	L	W	Digi-Key Part No.	Price Each 1	10	100	Kemet Part No.
6.3	3.3	13	0.5	4	2.4	6.6	.51	399-1452-ND	.65	.56	.44	T322A335K006AS
	4.7	10	0.5	4	2.4	6.6	.51	399-1453-ND	.65	.56	.44	T322A475K006AS
	6.8	8.0	0.5	6	2.8	7.4	.51	399-1454-ND	.71	.61	.48	T322B685K006AS
	22	3.7	1.1	6	4.6	8.8	.51	399-1457-ND	1.36	1.17	.92	T322C226K006AS
	33	3.0	1.5	6	4.6	8.8	.51	399-1458-ND	1.36	1.17	.92	T322C336K006AS
	47	2.0	2.3	6	4.6	10.7	.51	399-1459-ND	1.52	1.31	1.02	T322D476K006AS
	68	1.8	3.3	6	4.6	10.7	.51	399-1460-ND	1.64	1.41	1.11	T322D686K006AS
	100	1.6	4.8	8	7.1	13.5	.64	399-1461-ND	4.14	3.55	2.78	T322E107K006AS
	150	0.9	5.0	8	7.1	13.5	.64	399-1462-ND	4.14	3.55	2.78	T322E157K006AS
	220	0.9	10.0	8	7.1	13.5	.64	399-1463-ND	5.51	4.73	3.70	T322E227K006AS
10	2.2	13	0.5	4	2.4	6.6	.51	399-1465-ND	.65	.56	.44	T322A225K010AS
	3.3	10	0.5	4	2.4	6.6	.51	399-1466-ND	.65	.56	.44	T322A335K010AS
	4.7	8.0	0.5	4	2.8	7.4	.51	399-1467-ND	.71	.61	.48	T322B475K010AS
	6.8	6.0	0.5	6	2.8	7.4	.51	399-1468-ND	.71	.61	.48	T322B685K010AS
	15	3.7	1.2	6	4.6	8.8	.51	399-1470-ND	1.36	1.17	.92	T322C156K010AS
	33	2.1	2.6	6	4.6	10.7	.51	399-1472-ND	1.52	1.31	1.02	T322D336K010AS
	47	1.7	3.8	6	4.6	10.7	.51	399-1473-ND	1.64	1.41	1.11	T322D476K010AS
	68	1.3	5.0	6	7.1	13.5	.64	399-1474-ND	4.14	3.55	2.78	T322E686K010AS
	100	1.0	8.0	8	7.1	13.5	.64	399-1475-ND	4.14	3.55	2.78	T322E107K010AS
	150	0.8	10.0	8	7.1	13.5	.64	399-1476-ND	5.51	4.73	3.70	T322E157K010AS
	220	0.6	10.0	8	7.6	18.0	.64	399-1477-ND	10.96	9.40	7.37	T322F227K010AS
15	1.5	10	0.5	4	2.4	6.6	.51	399-1478-ND	.65	.56	.44	T322A155K015AS
	2.2	8.0	0.5	4	2.4	6.6	.51	399-1479-ND	.65	.56	.44	T322A225K015AS
	3.3	6.0	0.5	4	2.8	7.4	.51	399-1480-ND	.71	.61	.48	T322B335K015AS
	6.8	4.0	0.8	6	2.8	7.4	.51	399-1482-ND	.80	.69	.54	T322B685K015AS
	47	1.3	5.0	6	7.1	13.5	.64	399-1487-ND	4.14	3.55	2.78	T322E476K015AS
	56	1.3	6.7	6	7.1	13.5	.64	399-1488-ND	4.14	3.55	2.78	T322E566K015AS
	68	1.0	8.2	6	7.1	13.5	.64	399-1489-ND	4.14	3.55	2.78	T322E686K015AS
	100	0.8	10.0	8	7.1	13.5	.64	399-1490-ND	5.51	4.73	3.70	T322E107K015AS
	150	0.6	10.0	8	7.6	18.0	.64	399-1491-ND	10.96	9.40	7.37	T322F157K015AS
20	3.3	5.5	0.5	4	2.8	7.4	.51	399-1495-ND	.71	.61	.48	T322B335K020AS
	15	2.3	2.4	6	4.6	10.7	.51	399-1498-ND	1.52	1.31	1.02	T322D156K020AS
	33	1.4	5.0	6	7.1	13.5	.64	399-1500-ND	4.14	3.55	2.78	T322E336K020AS
	47	1.2	7.5	6	7.1	13.5	.64	399-1501-ND	4.14	3.55	2.78	T322E476K020AS
	68	0.9	10.0	6	7.1	13.5	.64	399-1502-ND	5.51	4.73	3.70	T322E686K020AS
25	.47	16	0.5	3	2.4	6.6	.51	399-1504-ND	.65	.56	.44	T322A474K025AS
	.68	12	0.5	3	2.4	6.6	.51	399-1505-ND	.65	.56	.44	T322A684K025AS
	1.5	8.0	0.5	3	2.8	7.4	.51	399-1507-ND	.80	.69	.54	T322B155K025AS
	2.2	6.0	0.5	3	2.8	7.4	.51	399-1508-ND	.80	.69	.54	T322B225K025AS
	3.3	5.0	0.7	3	2.8	7.4	.51	399-1509-ND	.80	.69	.54	T322B335K025AS
	4.7	4.0	0.9	4	4.6	8.8	.51	399-1510-ND	1.36	1.17	.92	T322C475K025AS
	6.8	3.1	1.4	4	4.6	8.8	.51	399-1511-ND	1.36	1.17	.92	T322C685K025AS
	33	1.2	6.6	6	7.1	13.5	.64	399-1514-ND	4.14	3.55	2.78	T322E336K025AS
	68	0.8	10.0	6	7.6	18.0	.64	399-1516-ND	10.96	9.40	7.37	T322F686K025AS
35	.10	26	0.5	3	2.4	6.6	.51	399-1517-ND	.65	.56	.44	T322A104K035AS
	.15	21	0.5	3	2.4	6.6	.51	399-1518-ND	.65	.56	.44	T322A154K035AS
	.33	15	0.5	3	2.4	6.6	.51	399-1520-ND	.65	.56	.44	T322A334K035AS
	.47	13	0.5	3	2.4	6.6	.51	399-1521-ND	.65	.56	.44	T322A474K035AS
	.68	10	0.5	3	2.8	7.4	.51	399-1522-ND	.71	.61	.48	T322B684K035AS
	1.5	6.0	0.5	3	2.8	7.4	.51	399-1524-ND	.80	.69	.54	T322B155K035AS
	15	1.6	4.2	6	7.1	13.5	.64	399-1530-ND	4.14	3.55	2.78	T322E156K035AS
	47	0.8	10.0	6	7.6	18.0	.64	399-1533-ND	10.96	9.40	7.37	T322F476K035AS
50	.15	21	0.5	3	2.4	6.6	.51	399-1535-ND	.74	.63	.50	T322A154K050AS
	.22	17	0.5	3	2.4	6.6	.51	399-1536-ND	.74	.63	.50	T322A224K050AS
	.33	15	0.5	3	2.8	7.4	.51	399-1537-ND	.87	.75	.59	T322B334K050AS
	.47	13	0.5	3	2.8	7.4	.51	399-1538-ND	.87	.75	.59	T322B474K050AS
	.68	10	0.5	3	2.8	7.4	.51	399-1539-ND	.87	.75	.59	T322B684K050AS
	1.5	5.0	0.6	4	4.6	8.8	.51	399-1541-ND	1.54	1.33	1.04	T322C155K050AS
	2.2	3.5	0.9	4	4.6	8.8	.51	399-1542-ND	1.54	1.33	1.04	T322C225K050AS
	3.3	3.0	1.3	4	4.6	10.7	.51	399-1543-ND	2.06	1.77	1.39	T322D335K050AS
	6.8	2.0	2.7	4	7.1	13.5	.64	399-1545-ND	4.54	3.90	3.06	T322E685K050AS
	10	1.6	4.0	6	7.1	13.5	.64	399-1546-ND	4.54	3.90	3.06	T322E106K050AS
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6.3	3.3	13	0.5	4	2.4	6.6	.51	399-4528-ND	.72	.62	.49	T322A335K006AT
	4.7	10	0.5	4	2.4	6.6	.51	399-4529-ND	.72	.62	.49	T322A475K006AT
	6.8	8.0	0.5	6	2.8	7.4	.51	399-4530-ND	.78	.67	.53	T322B685K006AT
	10	6.0	0.5	6	2.8	7.4	.51	399-4531-ND	.78	.67	.53	T322B106K006AT
	15	5.0	0.7	6	2.8	7.4	.51	399-4532-ND	.78	.67	.53	T322B156K006AT
	22	3.7	1.1	6	4.6	8.8	.51	399-4533-ND	1.50	1.29	1.01	T322C226K006AT
	33	3.0	1.5	6	4.6	8.8	.51	399-4534-ND	1.50	1.29	1.01	T322C336K006AT
	47	2.0	2.3	6	4.6	10.7	.51	399-4535-ND	1.67	1.44	1.13	T322D476K006AT
	68	1.8	3.3	6	4.6	10.7	.51	399-4536-ND	1.81	1.55	1.22	T322D686K006AT
	100	1.6	4.8	8	7.1	13.5	.64	399-4537-ND	4.55	3.90	3.06	T322E107K006AT
	150	0.9	5.0	8	7.1	13.5	.64	399-4538-ND	4.55	3.90	3.06	T322E157K006AT
	220	0.9	10.0	8	7.1	13.5	.64	399-4539-ND	6.06	5.20	4.07	T322E227K006AT
	330	0.7	10.0	8	7.6	18.0	.64	399-4540-ND	12.06	10.34	8.10	T322F337K006AT
10	2.2	13	0.5	4	2.4	6.6	.51	399-4541-ND	.72	.62	.49	T322A225K010AT
	3.3	10	0.5	4	2.4	6.6	.51	399-4542-ND	.72	.62	.49	T322A335K010AT
10	4.7	8.0	0.5	4	2.8	7.4	.51	399-4543-ND	.78	.67	.53	T322B475K010AT
	6.8	6.0	0.5	6	2.8	7.4	.51	399-4544-ND	.78	.67	.53	T322B685K010AT
	10	5.0	0.8	6	2.8	7.4	.51	399-4545-ND	.78	.67	.53	T322B106K010AT
	15	3.7	1.2	6	4.6	8.8	.51	399-4546-ND	1.50	1.29	1.01	T322C156K010AT
	22	2.7	1.5	6	4.6	8.8	.51	399-4547-ND	1.50	1.29	1.01	T322C226K010AT
	33	2.1	2.6	6	4.6	10.7	.51	399-4548-ND	1.67	1.44	1.13	T322D336K010AT
	47	1.7	3.8	6	4.6	10.7	.51	399-4549-ND	1.81	1.55	1.22	T322D476K010AT
	68	1.3	5.0	6	7.1	13.5	.64	399-4550-ND	4.55	3.90	3.06	T322E686K010AT
	100	1.0	8.0	8	7.1	13.5	.64	399-4551-ND	4.55	3.90	3.06	T322E107K010AT
	150	0.8	10.0	8	7.1	13.5	.64	399-4552-ND	6.06	5.20	4.07	T322E157K010AT
	220	0.6	10.0	8	7.6	18.0	.64	399-4553-ND	12.06	10.34	8.10	T322F227K010AT
15	1.5	10	0.5	4	2.4	6.6	.51	399-4554-ND	.72	.62	.49	T322A155K015AT
	2.2	8.0	0.5	4	2.4	6.6	.51	399-4555-ND	.72	.62	.49	T322A255K015AT
	3.3	6.0	0.5	4	2.8	7.4	.51	399-4556-ND	.78	.67	.53	T322B335K015AT
	4.7	5.0	0.6	4	2.8	7.4	.51	399-4557-ND	.88	.76	.60	T322B475K015AT
	6.8	4.0	0.8	6	2.8	7.4	.51	399-4558-ND	.88	.76	.60	T322B685K015AT
	10	3.2	1.2	6	4.6	8.8	.51	399-4559-ND	1.50	1.29	1.01	T322C106K015AT
	15	2.5	1.5	6	4.6	8.8	.51	399-4560-ND	1.50	1.29	1.01	T322C156K015AT
	22	2.0	2.6	6	4.6	10.7	.51	399-4561-ND	1.67	1.44	1.13	T322D226K015AT
	33	1.6	4.0	6	4.6	10.7	.51	399-4562-ND	1.81	1.55	1.22	T322D336K015AT
	47	1.3	5.0	6	7.1	13.5	.64	399-4563-ND	4.55	3.90	3.06	T322E476K015AT
	56	1.3	6.7	6	7.1	13.5	.64	399-4564-ND	4.55	3.90	3.06	T322E566K015AT
	68	1.0	8.2	6	7.1	13.5	.64	399-4565-ND	4.55	3.90	3.06	T322E686K015AT
	100	0.8	10.0	8	7.1	13.5	.64	399-4566-ND	6.06	5.20	4.07	T322E107K015AT
	150	0.6	10.0	8	7.6	18.0	.64	399-4567-ND	12.06	10.34	8.10	T322F157K015AT
20	1.0	10	0.5	4	2.4	6.6	.51	399-4568-ND	.72	.62	.49	T322A105K020AT
	1.5	9.0	0.5	4	2.4	6.6	.51	399-4569-ND	.72	.62	.49	T322A155K020AT
	2.2	7.0	0.5	4	2.8	7.4	.51	399-4570-ND	.78	.67	.53	T322B225K020AT
	3.3	5.5	0.5	4	2.8	7.4	.51	399-4571-ND	.78	.67	.53	T322B335K020AT
	4.7	4.5	0.8	4	2.8	7.4	.51	399-4572-ND	.88	.76	.60	T322B475K020AT
	10	2.9	1.6	6	4.6	8.8	.51	399-4573-ND	1.50	1.29	1.01	T322C106K020AT
	15	2.3	2.4	6	4.6	10.7	.51	399-4574-ND	1.67	1.44	1.13	T322D156K020AT
	22	1.8	3.5	6	4.6	10.7	.51	399-4575-ND	1.81	1.55	1.22	T322D226K020AT
	33	1.4	5.0	6	7.1	13.5	.64	399-4576-ND	4.55	3.90	3.06	T322E336K020AT
	47	1.2	7.5	6	7.1	13.5	.64	399-4577-ND	4.55	3.90	3.06	T322E476K020AT
	68	0.9	10.0	6	7.1	13.5	.64	399-4578-ND	6.06	5.20	4.07	T322E686K020AT
	100	0.6	10.0	8	7.6	18.0	.64	399-4579-ND	12.06	10.34	8.10	T322F107K020AT
25	.47	16	0.5	3	2.4	6.6	.51	399-4580-ND	.72	.62	.49	T322A474K025AT
	.68	12	0.5	3	2.4	6.6	.51	399-4581-ND	.72	.62	.49	T322A684K025AT
	1.0	10	0.5	3	2.4	6.6	.51	399-4582-ND	.72	.62	.49	T322A105K025AT
	1.5	8.0	0.5	3	2.8	7.4	.51	399-4583-ND	.88	.76	.60	T322B155K025AT
	2.2	6.0	0.5	3	2.8	7.4	.51	399-4584-ND	.88	.76	.60	T322B225K025AT
	3.3	5.0	0.7	3	2.8	7.4	.51	399-4585-ND	.88	.76	.60	T322B335K025AT
	4.7	4.0	0.9	4	4.6	8.8	.51	399-4586-ND	1.50	1.29	1.01	T322C475K025AT
	6.8	3.1	1.4	4	4.6	8.8	.51	399-4587-ND	1.50	1.29	1.01	T322C685K025AT
	15	2.0	3.0	4	4.6	10.7	.51	399-4588-ND	1.81	1.55	1.22	T322D156K025AT
	22	1.5	4.4	6	7.1	13.5	.64	399-4589-ND	4.55	3.90	3.06	T322E226K025AT
	33	1.2	6.6	6	7.1	13.5	.64	399-4590-ND	4.55	3.90	3.06	T322E336K025AT
	47	1.0	9.4	6	7.1	13.5	.64	399-4591-ND	6.06	5.20	4.07	T322E476K025AT
	68	0.8	10.0	6	7.6	18.0	.64	399-4592-ND	12.06	10.34	8.10	T322F686K025AT
35	.10	26	0.5	3	2.4	6.6	.51	399-4593-ND	.72	.62	.49	T322A104K035AT
	.15	21	0.5	3	2.4	6.6	.51	399-4594-ND	.72	.62	.49	T322A154K035AT
	.22	17	0.5	3	2.4	6.6	.51	399-4595-ND	.72	.62	.49	T322A224K035AT
	.33	15	0.5	3	2.4	6.6	.51	399-4596-ND	.72	.62	.49	T322A334K035AT
	.47	13	0.5	3	2.4	6.6	.51	399-4597-ND	.72	.62	.49	T322A474K035AT
	.68	10	0.5	3	2.8	7.4	.51	399-4598-ND	.78	.67	.53	T322B684K035AT
	1.0	8.0	0.5	3	2.8	7.4	.51	399-4599-ND	.78	.67	.53	T322B105K035AT
	1.5	6.0	0.5	3	2.8	7.4	.51	399-4600-ND	.88	.76	.60	T322B155K035AT
	2.2	5.0	0.6	3	4.6	8.8	.51	399-4601-ND	1.50	1.29	1.01	T322C225K035AT
	3.3	4.0	0.9	4	4.6	8.8	.51	399-4602-ND	1.50	1.29	1.01	T322C335K035AT
	4.7	3.0	1.3	4	4.6	8.8	.51	399-4603-ND	1.50	1.29	1.01	T322C475K035AT
	6.8	2.5	1.9	4	4.6	10.7	.51	399-4604-ND	1.67	1.44	1.13	T322D685K035AT
	10	2.0	2.8	4	4.6	10.7	.51	399-4605-ND	1.81	1.55	1.22	T322D106K035AT
	15	1.6	4.2	6	7.1	13.5	.64	399-4606-ND	4.55	3.90	3.06	T322E156K035AT
	22	1.3	6.2	6	7.1	13.5	.64	399-4607-ND	4.55	3.90	3.06	T322E226K035AT
	33	1.0	9.2	6	7.1	13.5	.64	399-4608-ND	6.06	5.20	4.07	T322E336K035AT
	47	0.8	10.0	6	7.6	18.0	.64	399-4609-ND	12.06	10.34	8.10	T322F476K035AT
50	.10	26	0.5	3	2.4	6.6	.51	399-4610-ND	.81	.70	.55	T322A104K050AT
	.15	21	0.5	3	2.4	6.6	.51	399-4611-ND	.81	.70	.55	T322A154K050AT
	.22	17	0.5	3	2.4	6.6	.51	399-4612-ND	.81	.70	.55	T322A224K050AT
	.33	15	0.5	3	2.8	7.4	.51	399-4613-ND	.96	.82	.65	T322B334K050AT
	.47	13	0.5	3	2.8	7.4	.51	399-4614-ND	.96	.82	.65	T322B474K050AT
	.68	10	0.5	3	2.8	7.4	.51	399-4615-ND	.96	.82	.65	T322B684K050AT
	1.0	8.0	0.5	3	2.8	7.4	.51	399-4616-ND	1.06	.91	.72	T322B105K050AT
	1.5	5.0	0.6	4	4.6	8.8	.51	399-4617-ND	1.70	1.46	1.14	T322C155K050AT
	2.2	3.5	0.9	4	4.6	8.8	.51	399-4618-ND	1.70	1.46	1.14	T322C225K050AT
	3.3	3.0	1.3	4	4.6	10.7	.51	399-4619-ND	2.26	1.95	1.53	T322D335K050AT
	4.7	2.5	1.9	4	4.6	10.7	.51	399-4620-ND	2.26	1.95	1.53	T322D475K050AT
	6.8	2.0	2.7	4	7.1	13.5	.64	399-4621-ND	5.00	4.29	3.36	T322E685K050AT
	10	1.6	4.0	6	7.1	13.5	.64	399-4622-ND	5.00	4.29	3.36	T322E106K050AT
	15	1.2	6.0	6	7.6	18.0	.64	399-4623-ND	14.98	12.85	10.07	T322F156K050AT
	22	1.0	8.8	6	7.6	18.0	.64	399-4624-ND	14.98	12.85	10.07	T322F226K050AT

KEMET Surface Mount Tantalum Chip Capacitors

KEMET's family of solid tantalum chip capacitors are designed and manufactured with the requirements of surface mount technology in mind. These devices extend the advantages of solid tantalum technology to today's surface mount circuit applications.

Operating Temperature Range: -55°C ~ 125°C (T520 Series: -55°C ~ 105°C)

T491 Series — Industrial

The leading choice in surface mount designs. This product meets or exceeds the requirements of EIA standard 535BAAC. The physical outline and dimensions of this series conform to this global standard. This product was designed specifically for highly automated surface mount processes and equipment.

T494 Series — Low ESR, Industrial Grade

The T494 is a low ESR series that is available in all the same case sizes and CV ratings as the T491 Series. The T494 offers low ESR performance with the economy of an industrial grade device. This series is targeted for output filtering.

T495 Series — Low ESR, Surge Robust

Designed primarily for output filtering in switch-mode power supplies and DC-to-DC converters. The standard CV T495 values are an excellent choice for battery-to-ground input filter applications. This series offers several important advantages: Very low ESR, high ripple current capability, excellent capacitance stability and improved ability to withstand high inrush currents.

T496 Series — Fused

KEMET also offers a "fail-safe" fused solid tantalum chip capacitor. The built-in fuse element provides excellent protection from damaging short circuit conditions in applications where high fault currents exist. Protection from costly circuit damage due to reversed installation is offered with this device.

T510 Series — Ultra-Low ESR

KEMET's T510 Series offers the industry's lowest ESR in the popular EIA 7343-43 case size. The ultra-low ESR and high ripple current capability make it an ideal choice for SMPS filtering and power decoupling. KEMET has developed an innovative construction platform that incorporates multiple capacitor elements, in parallel, inside a single package.

T520 Series — KO-CAP Polymer Tantalum

The KO-CAP is a Tantalum capacitor, with Ta anode and Ta_2O_5 dielectric. A conductive, organic, polymer replaces the MnO_2 as the cathode plate of the capacitor. This results in very low ESR and improved cap retention at high frequency. The KO-CAP also exhibits a benign failure mode, which eliminates the ignition failures that can occur in standard MnO_2 Tantalum types. KO-CAPs may be operated at voltages up to 80% of rated voltage with equivalent or better reliability than standard tantalums operated at 50% of rated voltage.

The T520 series captures the best features of multilayer ceramic caps (low ESR and high frequency cap retention), aluminum electrolytics (benign failure mode), and proven solid tantalum technology (volumetric efficiency, surface mount capability, and no wearout mechanism).

The KO-CAP can reduce component counts, eliminate through-hole assembly by replacing leaded aluminum capacitors, and offer a more cost effective solution to high-cost high-cap ceramic capacitors.

T525 Series — KO-CAP Polymer Tantalum

The T525 has been targeted for power management applications. This series offers all of the same advantages as the T520 KO-CAP including very low ESR, improved capacitance retention at high frequency and a benign failure mode, to go along with 125°C capability.

T530 Series — KO-MAT Polymer Tantalum

The KO-MAT is an extremely low-ESR, volumetrically efficient, organic tantalum chip capacitor that offers high capacitance retention while preventing thermal events (ignition failures).

Organic polymer does not give up oxygen if the dielectric fails short, thus preventing ignition. Organic polymer is more conductive than MnO_2 — lower ESR.

Higher capacitance retention at higher frequencies means fewer parts are required to achieve the desired capacitance.

The KO-MAT allows tantalum capacitors to be used in circuits never considered possible before, such as input filters. Initial focus is for power supplies and microprocessor circuits

RoHS Compliant part numbers available

Capacitor Markings

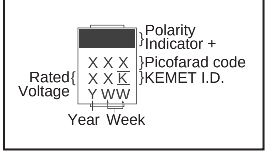

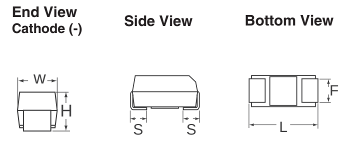

Size Code	EIA Code	L	W	H	F ±0.1	S ±0.3
A	3216-18	3.2±0.2	1.6±0.2	1.6±0.2	1.2	0.8
B	3528-21	3.5±0.2	2.8±0.2	1.9±0.2	2.2	0.8
C	6032-28	6.0±0.3	3.2±0.3	2.5±0.3	2.2	1.3
D	7343-31	7.3±0.3	4.3±0.3	2.8±0.3	2.4	1.3
E	7260-38	7.3±0.3	6.0±0.3	3.6±0.2	4.1	1.3
R	2012-12	2.0±0.2	1.3±0.2	1.2 Max.	0.9	0.5
T	3528-12	3.5±0.2	2.8±0.2	1.2 Max.	2.2	0.8
V	7343-20	7.3±0.3	4.3±0.3	2.0 Max.	2.4	1.3
X	7343-43	7.3±0.3	4.3±0.3	4.0±0.3	2.4	1.3
Y	7343-40	7.3±0.3	4.3±0.3	4.0 Max	2.4	1.3

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ +25°C Max.	DF % @ +25°C 120Hz Max.	ESR Ω @ +25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Size	Pricing	
T491 Series — Industrial														
4	68	±10	2.7	6.0	0.8	D	399-1549-1-ND	.65	.57	.50	399-1549-2-ND	500	118.00	T491D686K004AS
	100	±20	4	8.0	1.0	B	399-3000-1-ND	.93	.81	.71	—	—	—	T491B107M004AS
	100	±20	4	30.0	5.0	T	399-3337-1-ND	1.60	1.39	1.22	399-3337-2-ND	2,500	542.00/M	T491T107M004AT
	100	±20	4	8.0	0.8	D	399-1550-1-ND	.65	.57	.50	—	—	—	T491D107M004AS
	150	±20	6	12.0	2.0	B	399-3340-1-ND	.93	.81	.71	—	—	—	T491B157M004AS
	330	±10	13.2	10.0	1.2	C	399-3304-1-ND	2.00	1.74	1.52	—	—	—	T491C337K004AS
6.3	6.8	±10	0.5	8.0	15	R	399-3230-1-ND	1.16	1.01	.89	399-3230-2-ND	2,500	394.00/M	T491R685K006AS
	10	±20	0.6	6.0	4.0	A	399-1552-1-ND	.20	.18	.16	399-1552-2-ND	2,000	68.00/M	T491A106M006AS
	22	±10	1.4	6.0	1.8	C	399-1555-1-ND	.39	.35	.30	—	—	—	T491C226K006AS
	68	±20	4.1	8.0	1.0	B	399-3001-1-ND	.93	.81	.71	—	—	—	T491B686M006AS
	470	±20	28.2	12.0	0.5	D	399-3002-1-ND	4.63	4.03	3.52	—	—	—	T491D477M006AS
10	2.2	±10	0.5	6.0	8.0	A	399-1559-1-ND	.19	.17	.15	—	—	—	T491A225K010AS
	3.3	±10	0.5	6.0	6.0	A	399-1560-1-ND	.19	.17	.15	399-1560-2-ND	2,000	64.94/M	T491A335K010AS
	3.3	±10	0.3	8.0	15	R	399-3305-1-ND	1.16	1.01	.89	—	—	—	T491R335K010AS
	4.7	±20	0.5	6.0	6.0	A	399-1562-1-ND	.19	.17	.15	—	—	—	T491A475M010AS
	4.7	±10	0.5	6.0	3.5	B	399-1565-1-ND	.28	.25	.22	—	—	—	T491B475K010AS
	6.8	±10	0.7	6.0	3.5	B	399-1567-1-ND	.28	.25	.22	—	—	—	T491B685K010AS
	10	±10	1	6.0	4.0	A	399-1563-1-ND	.22	.19	.17	399-1563-2-ND	2,000	74.00/M	T491A106K010AS
	15	±10	1.5	6.0	3.5	B	399-1570-1-ND	.30	.26	.23	—	—	—	T491B156K010AS
	47	±20	4.7	6.0	0.8	D	399-1578-1-ND	.65	.57	.50	399-1578-2-ND	500	118.12	T491D476M010AS
	150	±10	15	10.0	1.2	C	399-3231-1-ND	2.00	1.74	1.52	399-3231-2-ND	500	364.00	T491C157K010AS
	150	±20	15	8.0	0.7	D	399-1581-1-ND	1.00	.88	.77	—	—	—	T491D157M010AS
	330	±20	33	10.0	0.5	D	399-3097-1-ND	4.63	4.03	3.52	—	—	—	T491D337M010AS
	470	±20	47	12.0	0.5	E	399-3095-1-ND	9.50	8.27	7.22	399-3095-2-ND	500	1729.00	T491E477M010AS
16	1.0	±20	0.5	4.0	10.0	A	399-1584-1-ND	.19	.17	.15	399-1584-2-ND	2,000	65.00/M	T491A105M016AS
	4.7	±10	0.8	6.0	6.0	A	399-1587-1-ND	.20	.18	.16	399-1587-2-ND	2,000	68.00/M	T491A475K016AS
	4.7	±20	0.8	6.0	6.0	A	399-1588-1-ND	.20	.18	.16	399-1588-2-ND	2,000	68.00/M	T491A475M016AS
	10	±20	1.6	6.0	3.5	B	399-1594-1-ND	.30	.26	.23	399-1594-2-ND	2,000	100.00/M	T491B106M016AS
	10	±20	1.6	6.0	1.8	C	399-1596-1-ND	.39	.35	.30	399-1596-2-ND	500	71.50	T491C106M016AS
	22	±20	3.5	6.0	2.2	B	399-3099-1-ND	.53	.47	.41	—	—	—	T491B226M016AS
	22	±20	3.6	6.0	1.6	C	399-1598-1-ND	.43	.38	.33	399-1598-2-ND	500	77.53	T491C226M016AS
	100	±10	16	8.0	0.7	D	399-1604-1-ND	1.00	.88	.77	399-1604-2-ND	500	182.18	T491D107K016AS
	100	±10	16	12	0.7	V	399-3366-1-ND	3.40	2.96	2.59	399-3366-2-ND	1,000	1156.00	T491V107K016AS
	150	±10	24	8.0	0.5	X	399-1608-1-ND	2.22	1.93	1.69	399-1608-2-ND	500	403.50	T491X157K016AS
20	6.8	±10	1.4	6.0	1.9	C	399-1613-1-ND	.39	.35	.30	—	—	—	T491C685K020AS
	33	±10	6.6	6.0	0.8	D	399-1618-1-ND	.65	.57	.50	399-1618-2-ND	500	118.00	T491D336K020AS
	47	±10	9.4	6.0	0.7	D	399-1619-1-ND	.78	.68	.60	399-1619-2-ND	500	142.14	T491D476K020AS
	68	±10	13.6	8.0	0.7	D	399-1620-1-ND	1.39	1.21	1.06	399-1620-2-ND	500	252.50	T491D686K020AS
25	.47	±10	0.5	4.0	14.0	A	399-1623-1-ND	.19	.17	.15	399-1623-2-ND	2,000	64.94/M	T491A474K025AS
	1.0	±10	0.5	4.0	8.0	A	399-1624-1-ND	.20	.18	.16	399-1624-2-ND	2,000	68.00/M	T491A105K025AS
	2.2	±20	0.6	6.0	3.5	C	399-1628-1-ND	.39	.35	.30	399-1628-2-ND	500	71.53	T491C225M025AS
	4.7	±10	1.2	6.0	2.4	C	399-1629-1-ND	.39	.35	.30	—	—	—	T491C475K025AS
	4.7	±20	1.2	6.0	2.4	C	399-1630-1-ND	.39	.35	.30	—	—	—	T491C475M025AS
	6.8	±20	1.7	6.0	1.9	C	399-1632-1-ND	.39	.35	.30	—	—	—	T491C685M025AS
	10	±10	2.5	6.0	1.5	C	399-1633-1-ND	.43	.38	.33	399-1633-2-ND	500	77.50	T491C106K025AS
	15	±20	3.8	6.0	1.0	D	399-1638-1-ND	.65	.57	.50	399-1638-2-ND	500	118.00	T491D156M025AS
	22	±20	5.5	6.0	0.8	D	399-1640-1-ND	.65	.57	.50	399-1640-2-ND	500	118.00	T491D226M025AS
35	.10	±10	0.5	4.0	10.0	A	399-1643-1-ND	.19	.17	.15	—	—	—	T491A104K035AS

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ +25°C Max.	DF % @ +25°C 120Hz Max.	ESR Ω @ +25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Size	Pricing	
35	.10	±20	0.5	4.0	10.0	A	399-1644-1-ND	.19	.17	.15	—	—	—	T491A104M035AS
	.33	±10	0.5	4.0	15.0	A	399-1645-1-ND	.19	.17	.15	—	—	—	T491A334K035AS
	3.3	±20	1.2	6.0	3.5	B	399-3100-1-ND	.53	.47	.41	—	—	—	T491B335M035AS
	15	±10	5.3	6.0	0.9	X	399-3232-1-ND	1.82	1.58	1.38	399-3232-2-ND	500	330.50	T491X156K035AS
50	3.3	±20	1.7	6.0	2.0	D	399-1663-1-ND	.80	.70	.61	—	—	—	T491D335M050AS
T491 Series — Industrial — RoHS Compliant														
4	68	±10	2.8	30.0	4.0	A	399-3701-1-ND	.50	.44	.38	399-3701-2-ND	2,000	170.00/M	T491A686K004AT
	68	±10	2.7	6.0	0.8	D	399-3801-1-ND	.65	.57	.50	399-3801-2-ND	500	118.00	T491D686K004AT
	100	±20	4	30.0	4.0	A	399-3688-1-ND	.48	.42	.37	399-3688-2-ND	2,000	162.00/M	T491A107M004AT
	100	±20	4	8.0	1.0	B	399-3709-1-ND	.93	.81	.71	399-3709-2-ND	2,000	315.00/M	T491B107M004AT
	100	±20	4	8.0	0.8	D	399-3771-1-ND	.65	.57	.50	399-3771-2-ND	500	118.00	T491D107M004AT
	150	±20	6	12.0	2.0	B	399-3713-1-ND	.93	.81	.71	399-3713-2-ND	2,000	315.00/M	T491B157M004AT
	330	±10	13.2	10.0	1.2	C	399-3751-1-ND	2.00	1.74	1.52	399-3751-2-ND	500	364.00	T491C337K004AT
6.3	10	±10	0.6	6.0	4.0	A	399-3683-1-ND	.20	.18	.16	399-3683-2-ND	2,000	68.00/M	T491A106K006AT
	10	±20	0.6	6.0	4.0	A	399-3685-1-ND	.20	.18	.16	399-3685-2-ND	2,000	68.00/M	T491A106M006AT
	10	±10	0.6	6.0	3.5	B	399-3704-1-ND	.28	.25	.22	399-3704-2-ND	2,000	96.00/M	T491B106K006AT
	22	±10	1.4	6.0	3.5	B	399-3716-1-ND	.30	.26	.23	399-3716-2-ND	2,000	100.00/M	T491B226K006AT
	22	±10	1.4	6.0	1.8	C	399-3742-1-ND	.39	.35	.30	399-3742-2-ND	500	71.50	T491C226K006AT
	47	±20	3	12.0	3.5	A	399-3700-1-ND	.48	.42	.37	399-3700-2-ND	2,000	162.00/M	T491A476M006AT
	47	±10	2.9	6.0	1.6	C	399-3756-1-ND	.43	.38	.33	399-3756-2-ND	500	77.50	T491C476K006AT
	68	±20	4.1	8.0	1.0	B	399-3729-1-ND	.93	.81	.71	399-3729-2-ND	2,000	315.00/M	T491B686M006AT
	68	±10	4.1	6.0	1.2	C	399-3764-1-ND	.52	.46	.40	399-3764-2-ND	500	94.50	T491C686K006AT
	68	±10	4.1	6.0	0.8	D	399-3802-1-ND	.65	.57	.50	399-3802-2-ND	500	118.00	T491D686K006AT
	100	±20	6.3	15.0	3.0	B	399-3710-1-ND	.93	.81	.71	399-3710-2-ND	2,000	315.00/M	T491B107M006AT
	220	±20	13.2	10.0	1.2	C	399-3748-1-ND	1.95	1.70	1.49	399-3748-2-ND	500	355.00	T491C227M006AT
	470	±20	28.2	12.0	0.5	D	399-3798-1-ND	4.63	4.03	3.52	399-3798-2-ND	500	842.00	T491D477M006AT
	680	±20	40.8	12.0	0.5	E	399-3805-1-ND	9.50	8.27	7.22	399-3805-2-ND	500	1729.00	T491E687M006AT
10	2.2	±10	0.5	6.0	8.0	A	399-3690-1-ND	.19	.17	.15	399-3690-2-ND	2,000	65.00/M	T491A225K010AT
	3.3	±10	0.5	6.0	6.0	A	399-3694-1-ND	.19	.17	.15	399-3694-2-ND	2,000	65.00/M	T491A335K010AT
	3.3	±10	0.3	8.0	15	R	399-3807-1-ND	1.16	1.01	.89	399-3807-2-ND	2,500	394.00/M	T491R335K010AT
	4.7	±10	0.5	6.0	6.0	A	399-3696-1-ND	.19	.17	.15	399-3696-2-ND	2,000	65.00/M	T491A475K010AT
	4.7	±20	0.5	6.0	6.0	A	399-3698-1-ND	.19	.17	.15	399-3698-2-ND	2,000	65.00/M	T491A475M010AT
	4.7	±10	0.5	6.0	3.5	B	399-3721-1-ND	.28	.25	.22	399-3721-2-ND	2,000	96.00/M	T491B475K010AT
	4.7	±20	0.5	6.0	3.5	B	399-3724-1-ND	.28	.25	.22	399-3724-2-ND	2,000	96.00/M	T491B475M010AT
	6.8	±10	0.7	6.0	3.5	B	399-3727-1-ND	.28	.25	.22	399-3727-2-ND	2,000	96.00/M	T491B685K010AT
	10	±10	1	6.0	4.0	A	399-3684-1-ND	.22	.19	.17	399-3684-2-ND	2,000	74.00/M	T491A106K010AT
	10	±20	1	6.0	4.0	A	399-3686-1-ND	.22	.19	.17	399-3686-2-ND	2,000	74.00/M	T491A106M010AT
	10	±10	1	6.0	3.5	B	399-3705-1-ND	.28	.25	.22	399-3705-2-ND	2,000	96.00/M	T491B106K010AT
	10	±20	1	6.0	3.5	B	399-3707-1-ND	.28	.25	.22	399-3707-2-ND	2,000	96.00/M	T491B106M010AT
	10	±10	1	6.0	1.8	C	399-3731-1-ND	.39	.35	.30	399-3731-2-ND	500	71.50	T491C106K010AT
	15	±10	1.5	6.0	3.5	B	399-3712-1-ND	.30	.26	.23	399-3712-2-ND	2,000	100.00/M	T491B156K010AT
	15	±10	1.5	6.0	1.8	C	399-3737-1-ND	.39	.35	.30	399-3737-2-ND	500	71.50	T491C156K010AT
	22	±20	2.2	10.0	6.0	A	399-3692-1-ND	.48	.42	.37	399-3692-2-ND	2,000	162.00/M	T491A226M010AT
	22	±10	2.2	6.0	1.8	C	399-3743-1-ND	.39	.35	.30	399-3743-2-ND	500	71.50	T491C226K010AT
	33	±10	3.3	6.0	0.8	D	399-3786-1-ND	.65	.57	.50	399-3786-2-ND	500	118.00	T491D336K010AT
	47	±20	4.7	8.0	1.0	B	399-3726-1-ND	.93	.81	.71	399-3726-2-ND	2,000	315.00/M	T491B476M010AT
	47	±10	4.7	6.0	1.2	C	399-3757-1-ND	.52	.46	.40	399-3757-2-ND	500	94.50	T491C476K010AT
	47	±20	4.7	6.0	1.2	C	399-3758-1-ND	.52	.46	.40	399-3758-2-ND	500	94.50	T491C476M010AT
	47	±10	4.7	6.0	0.8	D	399-3793-1-ND	.65	.57	.50	399-3793-2-ND	500	118.00	T491D476K010AT
	47	±20	4.7	6.0	0.8	D	399-3796-1-ND	.65	.57	.50	399-3796-2-ND	500	118.00	T491D476M010AT
	100	±10	10	8.0	0.7	D	399-3769-1-ND	.78	.68	.60	399-3769-2-ND	500	142.00	T491D107K010AT
	100	±20	10	8.0	0.7	D	399-3772-1-ND	.78	.68	.60	399-3772-2-ND	500	142.00	T491D107M010AT
	150	±10	15	10.0	1.2	C	399-3738-1-ND	2.00	1.74	1.52	399-3738-2-ND	500	364.00	T491C157K010AT
	150	±20	15	8.0	0.7	D	399-3778-1-ND	1.00	.88	.77	399-3778-2-ND	500	182.00	T491D157M010AT
	220	±10	22	8.0	0.5	X	399-3818-1-ND	2.22	1.93	1.69	399-3818-2-ND	500	403.50	T491X227K010AT
	330	±20	33	10.0	0.5	D	399-3790-1-ND	4.63	4.03	3.52	399-3790-2-ND	500	842.00	T491D337M010AT
	470	±20	47	12.0	0.5	E	399-3804-1-ND	9.50	8.27	7.22	399-3804-2-ND	500	1729.00	T491E477M010AT
16	1.0	±10	0.5	4.0	10.0	A	399-3678-1-ND	.19	.17	.15	399-3678-2-ND	2,000	65.00/M	T491A105K016AT
	1.0	±20	0.5	4.0	10.0	A	399-3681-1-ND	.19	.17	.15	399-3681-2-ND	2,000	65.00/M	T491A105M016AT
	1.5	±10	0.5	6.0	8.0	A	399-3689-1-ND	.19	.17	.15	399-3689-2-ND	2,000	65.00/M	T491A155K016AT
	2.2	±10	0.5	6.0	6.0	A	399-3691-1-ND	.19	.17	.15	399-3691-2-ND	2,000	65.00/M	T491A225K016AT
	3.3	±10	0.5	6.0	3.5	B	399-3719-1-ND	.28	.25	.22	399-3719-2-ND	2,000	96.00/M	T491B335K016AT
	4.7	±10	0.8	6.0	6.0	A	399-3697-1-ND	.20	.18	.16	399-3697-2-ND	2,000	68.00/M	T491A475K016AT
	4.7	±20	0.8	6.0	6.0	A	399-3699-1-ND	.20	.18	.16	399-3699-2-ND	2,000	68.00/M	T491A475M016AT
	4.7	±10	0.8	6.0	3.5	B	399-3722-1-ND	.28	.25	.22	399-3722-2-ND	2,000	96.00/M	T491B475K016AT
	4.7	±20	0.8	6.0	3.5	B	399-3725-1-ND	.28	.25	.22	399-3725-2-ND	2,000	96.00/M	T491B475M016AT
	6.8	±20	1.1	6.0	1.9	C	399-3761-1-ND	.39	.35	.30	399-3761-2-ND	500	71.50	T491C685M016AT
	10	±20	1.6	10.0	7.0	A	399-3687-1-ND	.24	.21	.18	399-3687-2-ND	2,000	80.00/M	T491A106M016AT
	10	±10	1.6	6.0	3.5	B	399-3706-1-ND	.30	.26	.23	399-3706-2-ND	2,000	100.00/M	T491B106K016AT
	10	±20	1.6	6.0	3.5	B	399-3708-1-ND	.30	.26	.23	399-3708-2-ND	2,000	100.00/M	T491B106M016AT
	10	±10	1.6	6.0	1.8	C	399-3732-1-ND	.39	.35	.30	399-3732-2-ND	500	71.50	T491C106K016AT
	10	±20	1.6	6.0	1.8	C	399-3735-1-ND	.39	.35	.30	399-3735-2-ND	500	71.50	T491C106M016AT
	22	±20	3.5	6.0	2.2	B	399-3717-1-ND	.53	.47	.41	399-3717-2-ND	2,000	182.00/M	T491B226M016AT
	22	±10	3.6	6.0	1.6	C	399-3744-1-ND	.43	.38	.33	399-3744-2-ND	500	77.50	T491C226K016AT
	22	±20	3.6	6.0	1.6	C	399-3747-1-ND	.43	.38	.33	399-3747-2-ND	500	77.50	T491C226M016AT
	22	±10	3.6	6.0	0.8	D	399-3780-1-ND	.65	.57	.50	399-3780-2-ND	500	118.00	T491D226K016AT
	33	±10	5.3	6.0	1.2	C	399-3750-1-ND	.52	.46	.40	399-3750-2-ND	500	94.50	T491C336K016AT
	33	±10	5.3	6.0	0.8	D	399-3787-1-ND	.65	.57	.50	399-3787-2-ND	500	118.00	T491D336K016AT
	33	±20	5.3	6.0	0.8	D	399-3789-1-ND	.65	.57	.50	399-3789-2-ND	500	118.00	T491D336M016AT
	47	±10	7.5	6.0	0.8	D	399-3794-1-ND	.65	.57	.50	399-3794-2-ND	500	118.00	T491D476K016AT
	100	±10	16	8.0	0.7	D	399-3770-1-ND	1.00	.88	.77	399-3770-2-ND	500	182.00	T491D107K016AT
	100	±20	16	8.0	0.7	D	399-3773-1-ND	1.00	.88	.77	399-3773-2-ND	500	182.00	T491D107M016AT
	100	±10	16	12	0.7	V	399-3809-1-ND	3.40	2.96	2.59	399-3809-2-ND	1,000	1156.00	T491V107K016AT
	100	±10	16	8.0	0.7	X	399-3811-1-ND	1.82	1.58	1.38	399-3811-2-ND	500	330.50	T491X107K016AT
	100	±20	16	8.0	0.7	X	399-3812-1-ND	1.82	1.58	1.38	399-3812-2-ND	500	330.50	T491X107M016AT
	150	±10	24	12.0	0.7	D	399-3777-1-ND	1.39	1.21	1.06	399-3777-2-ND	500	252.50	T491D157K016AT
	150	±10	24	8.0	0.5	X	399-3815-1-ND	2.22	1.93	1.69	399-3815-2-ND	500	403.50	T491X157K016AT
20	1.0	±10	0.5	4.0	10.0	A	399-3679-1-ND	.19	.17	.15	399-3679-2-ND	2,000	65.00/M	T491A105K020AT
	1.0	±20	0.5	4.0	10.0	A	399-3682-1-ND	.19	.17	.15	399-3682-2-ND	2,000	65.00/M	T491A105M020AT
	1.0	±20	0.2	6.0	20.0	R	399-3806-1-ND	1.11	.97	.85	—	—	—	T491R105M020AT

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV	Cap.	Cap.	DC Leakage	DF % @ +25°C	ESR Ω @ +25°C	Size	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		Kemet
(DC)	(µF)	Tol. (%)	µA @ +25°C Max.	120Hz Max.	100KHz Max.	Code	Part No.	1	10	100	Part No.	Size	Pricing	Part No.
20	2.2	±10	0.5	6.0	3.5	B	399-3714-1-ND	.28	.25	.22	399-3714-2-ND	2,000	96.00/M	T491B225K020AT
	4.7	±10	1	6.0	3.5	B	399-3723-1-ND	.28	.25	.22	399-3723-2-ND	2,000	96.00/M	T491B475K020AT
	6.8	±10	1.4	6.0	1.9	C	399-3759-1-ND	.39	.35	.30	399-3759-2-ND	500	71.50	T491C685K020AT
	10	±10	2	6.0	1.8	C	399-3733-1-ND	.39	.35	.30	399-3733-2-ND	500	71.50	T491C106K020AT
	22	±10	4.4	6.0	1.2	C	399-3745-1-ND	.52	.46	.40	399-3745-2-ND	500	94.50	T491C226K020AT
	22	±10	4.4	6.0	0.8	D	399-3781-1-ND	.65	.57	.50	399-3781-2-ND	500	118.00	T491D226K020AT
	22	±20	4.4	6.0	0.8	D	399-3783-1-ND	.65	.57	.50	399-3783-2-ND	500	118.00	T491D226M020AT
	33	±10	6.6	6.0	0.8	D	399-3788-1-ND	.65	.57	.50	399-3788-2-ND	500	118.00	T491D336K020AT
	47	±10	9.4	6.0	0.7	D	399-3795-1-ND	.78	.68	.60	399-3795-2-ND	500	142.00	T491D476K020AT
	68	±10	13.6	8.0	0.7	D	399-3803-1-ND	1.39	1.21	1.06	399-3803-2-ND	500	252.50	T491D686K020AT
	68	±10	13.6	6.0	0.7	X	399-3822-1-ND	1.82	1.58	1.38	399-3822-2-ND	500	330.50	T491X686K020AT
	100	±20	20	8.0	0.5	X	399-3813-1-ND	2.22	1.93	1.69	399-3813-2-ND	500	403.50	T491X107M020AT
25	.47	±10	0.5	4.0	14.0	A	399-3695-1-ND	.19	.17	.15	399-3695-2-ND	2,000	65.00/M	T491A474K025AT
	1.0	±10	0.5	4.0	8.0	A	399-3680-1-ND	.20	.18	.16	399-3680-2-ND	2,000	68.00/M	T491A105K025AT
	1.5	±10	0.5	6.0	5.0	B	399-3711-1-ND	.28	.25	.22	399-3711-2-ND	2,000	96.00/M	T491B155K025AT
	2.2	±10	0.6	6.0	4.5	B	399-3715-1-ND	.30	.26	.23	399-3715-2-ND	2,000	100.00/M	T491B225K025AT
	2.2	±10	0.6	6.0	3.5	C	399-3739-1-ND	.39	.35	.30	399-3739-2-ND	500	71.50	T491C225K025AT
	2.2	±20	0.6	6.0	3.5	C	399-3741-1-ND	.39	.35	.30	399-3741-2-ND	500	71.50	T491C225M025AT
	4.7	±10	1.2	6.0	2.4	C	399-3753-1-ND	.39	.35	.30	399-3753-2-ND	500	71.50	T491C475K025AT
	4.7	±20	1.2	6.0	2.4	C	399-3755-1-ND	.39	.35	.30	399-3755-2-ND	500	71.50	T491C475M025AT
	6.8	±10	1.7	8.0	3.0	B	399-3728-1-ND	.53	.47	.41	399-3728-2-ND	2,000	182.00/M	T491B685K025AT
	6.8	±10	1.7	6.0	1.9	C	399-3760-1-ND	.39	.35	.30	399-3760-2-ND	500	71.50	T491C685K025AT
	6.8	±20	1.7	6.0	1.9	C	399-3762-1-ND	.39	.35	.30	399-3762-2-ND	500	71.50	T491C685M025AT
	10	±10	2.5	6.0	1.5	C	399-3734-1-ND	.43	.38	.33	399-3734-2-ND	500	77.50	T491C106K025AT
	10	±20	2.5	6.0	1.5	C	399-3736-1-ND	.43	.38	.33	399-3736-2-ND	500	77.50	T491C106M025AT
	10	±10	2.5	6.0	1.0	D	399-3765-1-ND	.65	.57	.50	399-3765-2-ND	500	118.00	T491D106K025AT
	10	±20	2.5	6.0	1.0	D	399-3767-1-ND	.65	.57	.50	399-3767-2-ND	500	118.00	T491D106M025AT
	15	±10	3.8	6.0	1.0	D	399-3774-1-ND	.65	.57	.50	399-3774-2-ND	500	118.00	T491D156K025AT
	15	±20	3.8	6.0	1.0	D	399-3776-1-ND	.65	.57	.50	399-3776-2-ND	500	118.00	T491D156M025AT
	22	±10	5.5	8.0	1.5	C	399-3746-1-ND	.68	.60	.53	399-3746-2-ND	500	124.50	T491C226K025AT
	22	±10	5.5	6.0	0.8	D	399-3782-1-ND	.65	.57	.50	399-3782-2-ND	500	118.00	T491D226K025AT
	22	±20	5.5	6.0	0.8	D	399-3784-1-ND	.65	.57	.50	399-3784-2-ND	500	118.00	T491D226M025AT
	33	±10	8.3	6.0	0.7	X	399-3819-1-ND	1.82	1.58	1.38	399-3819-2-ND	500	330.50	T491X336K025AT
	33	±20	8.3	6.0	0.7	X	399-3820-1-ND	1.82	1.58	1.38	399-3820-2-ND	500	330.50	T491X336M025AT
	47	±20	11.8	10.0	0.7	D	399-3797-1-ND	1.39	1.21	1.06	399-3797-2-ND	500	252.50	T491D476M025AT
	68	±20	17.0	8.0	0.7	X	399-3823-1-ND	2.22	1.93	1.69	399-3823-2-ND	500	403.50	T491X686M025AT
35	.10	±10	0.5	4.0	10.0	A	399-3676-1-ND	.19	.17	.15	399-3676-2-ND	2,000	65.00/M	T491A104K035AT
	.10	±20	0.5	4.0	10.0	A	399-3677-1-ND	.19	.17	.15	399-3677-2-ND	2,000	65.00/M	T491A104M035AT
	.33	±10	0.5	4.0	15.0	A	399-3693-1-ND	.19	.17	.15	399-3693-2-ND	2,000	65.00/M	T491A334K035AT
	1.0	±10	0.5	4.0	5.0	B	399-3702-1-ND	.28	.25	.22	399-3702-2-ND	2,000	96.00/M	T491B105K035AT
	1.0	±20	0.5	4.0	5.0	B	399-3703-1-ND	.28	.25	.22	399-3703-2-ND	2,000	96.00/M	T491B105M035AT
	2.2	±10	0.8	6.0	3.5	C	399-3740-1-ND	.39	.35	.30	399-3740-2-ND	500	71.50	T491C225K035AT
	3.3	±20	1.2	6.0	3.5	B	399-3720-1-ND	.53	.47	.41	399-3720-2-ND	2,000	182.00/M	T491B335M035AT
	3.3	±20	1.2	6.0	2.5	C	399-3749-1-ND	.39	.35	.30	399-3749-2-ND	500	71.50	T491C335M035AT
	4.7	±10	1.7	6.0	2.5	C	399-3754-1-ND	.43	.38	.33	399-3754-2-ND	500	77.50	T491C475K035AT
	4.7	±10	1.7	6.0	1.5	D	399-3791-1-ND	.65	.57	.50	399-3791-2-ND	500	118.00	T491D475K035AT
	6.8	±20	2.4	6.0	2.0	C	399-3763-1-ND	.52	.46	.40	399-3763-2-ND	500	94.50	T491C685M035AT
	6.8	±10	2.4	6.0	1.3	D	399-3799-1-ND	.65	.57	.50	399-3799-2-ND	500	118.00	T491D685K035AT
	10	±10	3.5	6.0	1.0	D	399-3766-1-ND	.65	.57	.50	399-3766-2-ND	500	118.00	T491D106K035AT
	10	±20	3.5	6.0	1.0	D	399-3768-1-ND	.65	.57	.50	399-3768-2-ND	500	118.00	T491D106M035AT
	15	±10	5.3	6.0	0.8	D	399-3775-1-ND	.78	.68	.60	399-3775-2-ND	500	142.00	T491D156K035AT
	15	±10	5.3	6.0	0.9	X	399-3814-1-ND	1.82	1.58	1.38	399-3814-2-ND	500	330.50	T491X156K035AT
	22	±10	7.7	6.0	0.7	X	399-3816-1-ND	1.82	1.58	1.38	399-3816-2-ND	500	330.50	T491X226K035AT
	22	±20	7.7	6.0	0.7	X	399-3817-1-ND	1.82	1.58	1.38	399-3817-2-ND	500	330.50	T491X226M035AT
	47	±10	16.5	8.0	0.6	X	399-3821-1-ND	2.62	2.29	2.00	399-3821-2-ND	500	477.50	T491X476K035AT
50	.33	±20	0.5	4.0	10.0	B	399-3718-1-ND	.34	.30	.26	399-3718-2-ND	2,000	116.00/M	T491B334M050AT
	.47	±10	0.5	4.0	8.0	C	399-3752-1-ND	.49	.43	.37	399-3752-2-ND	500	88.50	T491C474K050AT
	1.0	±10	0.5	4.0	5.5	C	399-3730-1-ND	.49	.43	.37	399-3730-2-ND	500	88.50	T491C105K050AT
	2.2	±10	1.1	6.0	2.5	D	399-3779-1-ND	.80	.70	.61	399-3779-2-ND	500	145.00	T491D225K050AT
	3.3	±20	1.7	6.0	2.0	D	399-3785-1-ND	.80	.70	.61	399-3785-2-ND	500	145.00	T491D335M050AT
	4.7	±10	2.4	6.0	1.5	D	399-3792-1-ND	.80	.70	.61	399-3792-2-ND	500	145.00	T491D475K050AT
	6.8	±20	3.4	6.0	1.0	D	399-3800-1-ND	.96	.84	.74	399-3800-2-ND	500	175.00	T491D685M050AT
T494 Series — Low ESR, Industrial Grade														
4	68	±10	2.8	30.0	3.0	A	399-3343-1-ND	.85	.74	.65	—	—	—	T494A686K004AS
	100	±20	4	30.0	3.0	A	399-3344-1-ND	.83	.72	.63	—	—	—	T494A107M004AS
	100	±20	4	8.0	1.0	B	399-3004-1-ND	1.39	1.21	1.06	399-3004-2-ND	2,000	473.00/M	T494B107M004AS
	100	±20	4	30.0	4.5	T	399-3342-1-ND	1.99	1.73	1.52	399-3342-2-ND	2,500	676.00/M	T494T107M004AT
	150	±20	6	12.0	1.0	B	399-3345-1-ND	1.39	1.21	1.06	—	—	—	T494B157M004AS
	330	±10	13.2	10.0	0.9	C	399-3310-1-ND	2.60	2.27	1.98	399-3310-2-ND	500	473.00	T494C337K004AS
6.3	6.8	±10	0.5	8.0	10	R	399-3233-1-ND	1.45	1.27	1.11	399-3233-2-ND	2,500	493.00/M	T494R685K006AS
	68	±20	4.1	8.0	1.0	B	399-3005-1-ND	1.39	1.21	1.06	—	—	—	T494B686M006AS
	100	±20	6.3	15.0	1.5	B	399-3196-1-ND	1.39	1.21	1.06	399-3196-2-ND	2,000	473.00/M	T494B107M006AS
	470	±20	28.2	12.0	0.5	D	399-3006-1-ND	8.20	7.14	6.24	399-3006-2-ND	500	1492.50	T494D477M006AS
10	2.2	±10	0.5	6.0	6.0	A	399-1772-1-ND	.60	.53	.46	399-1772-2-ND	2,000	204.00/M	T494A225K010AS
	33	±10	3.3	6.0	2.00	B	399-1775-1-ND	1.35	1.18	1.03	—	—	—	T494B336K010AS
	100	±10	10	8.0	0.15	D	399-1777-1-ND	2.60	2.27	1.98	399-1777-2-ND	500	473.20	T494D107K010AS
	150	±10	15	10.0	0.9	C	399-3234-1-ND	2.60	2.27	1.98	399-3234-2-ND	500	473.00	T494C157K010AS
	330	±20	33	10.0	0.15	D	399-3104-1-ND	8.20	7.14	6.24	—	—	—	T494D337M010AS
	330	±10	33	10.0	0.10	X	399-1778-1-ND	10.08	8.77	7.66	—	—	—	T494X337K010AS
16	22	±20	3.6	6.0	0.35	C	399-1781-1-ND	1.28	1.12	.98	399-1781-2-ND	500	233.00	T494C226M016AS
	22	±10	3.6	6.0	0.25	D	399-1782-1-ND	2.18	1.90	1.66	—	—	—	T494D226K016AS
	150	±10	24	12	0.4	D	399-3370-1-ND	7.15	6.23	5.44	—	—	—	T494D157K016AS
	150	±10	24	8.0	0.15	X	399-1783-1-ND	8.78	7.64	6.67	399-1783-2-ND	500	1597.00	T494X157K016AS
20	1.0	±20	0.2	6.0	15.0	R	399-3213-1-ND	1.39	1.21	1.06	—	—	—	T494R105M020AS
	100	±20	20	8.0	0.15	X	399-1784-1-ND	8.32	7.24	6.33	—	—	—	T494X107M020AS
25	6.8	±10	1.7	8.0	2.0	B	399-3368-1-ND	1.35	1.18	1.03	399-3368-2-ND	2,000	459.00/M	T494B685K025AS
	47	±20	11.8	10.0	0.2	D	399-3214-1-ND	6.83	5.94	5.19	399-3214-2-ND	500	1242.00	T494D476M025AS
	68	±20	17.0	8.0	0.3	X	399-3215-1-ND	8.32	7.24	6.33	399-3215-2-ND	500	1514.00	T494X686M025AS
35	4.7	±10	1.7	6.0	0.7	D	399-1788-1-ND	2.18	1.90	1.66	—	—	—	T494D475K035AS

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ +25°C Max.	DF % @ +25°C 120Hz Max.	ESR Ω @ +25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Size	Pricing	
35	22	±10	7.7	6.0	0.30	X	399-1790-1-ND	7.15	6.23	5.44	—	—	—	T494X226K035AS
	47	±10	16.5	8.0	0.5	X	399-3312-1-ND	10.08	8.77	7.66	—	—	—	T494X476K035AS
50	6.8	±20	3.4	6.0	0.7	D	399-3108-1-ND	3.25	2.83	2.47	—	—	—	T494D685M050AS
T494 Series — Low ESR, Industrial Grade — RoHS Compliant														
4	68	±10	2.8	30.0	3.0	A	399-3829-1-ND	.85	.74	.65	399-3829-2-ND	2,000	289.00/M	T494A686K004AT
	100	±20	4	30.0	3.0	A	399-3825-1-ND	.83	.72	.63	399-3825-2-ND	2,000	281.00/M	T494A107M004AT
	100	±20	4	8.0	1.0	B	399-3832-1-ND	1.39	1.21	1.06	399-3832-2-ND	2,000	473.00/M	T494B107M004AT
	150	±20	6	12.0	1.0	B	399-3834-1-ND	1.39	1.21	1.06	399-3834-2-ND	2,000	473.00/M	T494B157M004AT
	330	±10	13.2	10.0	0.9	C	399-3849-1-ND	2.60	2.27	1.98	399-3849-2-ND	500	473.00	T494C337K004AT
6.3	47	±20	3	12.0	2.5	A	399-3828-1-ND	.83	.72	.63	399-3828-2-ND	2,000	281.00/M	T494A476M006AT
	68	±20	4.1	8.0	1.0	B	399-3841-1-ND	1.39	1.21	1.06	399-3841-2-ND	2,000	473.00/M	T494B686M006AT
	100	±20	6.3	15.0	1.5	B	399-3833-1-ND	1.39	1.21	1.06	399-3833-2-ND	2,000	473.00/M	T494B107M006AT
	220	±20	13.2	10.0	0.3	C	399-3848-1-ND	2.54	2.21	1.93	399-3848-2-ND	500	461.50	T494C227M006AT
	470	±20	28.2	12.0	0.5	D	399-3861-1-ND	8.20	7.14	6.24	399-3861-2-ND	500	1492.50	T494D477M006AT
10	2.2	±10	0.5	6.0	6.0	A	399-3826-1-ND	.60	.53	.46	399-3826-2-ND	2,000	204.00/M	T494A225K010AT
	3.3	±10	0.3	8.0	10	R	399-3864-1-ND	1.45	1.27	1.11	399-3864-2-ND	2,500	493.00/M	T494R335K010AT
	4.7	±10	0.5	6.0	1.5	B	399-3838-1-ND	.83	.72	.63	399-3838-2-ND	2,000	281.00/M	T494B475K010AT
	10	±20	1	6.0	0.8	B	399-3831-1-ND	.80	.70	.61	399-3831-2-ND	2,000	272.00/M	T494B106M010AT
	22	±20	2.2	10.0	4.5	A	399-3827-1-ND	.83	.72	.63	399-3827-2-ND	2,000	281.00/M	T494A226M010AT
	33	±10	3.3	6.0	2.00	B	399-3837-1-ND	1.35	1.18	1.03	399-3837-2-ND	2,000	459.00/M	T494B336K010AT
	47	±20	4.7	8.0	1.0	B	399-3839-1-ND	1.39	1.21	1.06	399-3839-2-ND	2,000	473.00/M	T494B476M010AT
	47	±10	4.7	6.0	0.30	C	399-3850-1-ND	1.63	1.42	1.24	399-3850-2-ND	500	296.00	T494C476K010AT
	100	±10	10	8.0	0.15	D	399-3853-1-ND	2.60	2.27	1.98	399-3853-2-ND	500	473.00	T494D107K010AT
	150	±10	15	10.0	0.9	C	399-3844-1-ND	2.60	2.27	1.98	399-3844-2-ND	500	473.00	T494C157K010AT
	330	±20	33	10.0	0.15	D	399-3857-1-ND	8.20	7.14	6.24	399-3857-2-ND	500	1492.50	T494D337M010AT
	330	±10	33	10.0	0.10	X	399-3872-1-ND	10.08	8.77	7.66	399-3872-2-ND	500	1833.50	T494X337K010AT
16	10	±20	1.6	10.0	3.0	A	399-3824-1-ND	.78	.68	.59	399-3824-2-ND	2,000	264.00/M	T494A106M016AT
	10	±10	1.6	6.0	0.8	B	399-3830-1-ND	.90	.79	.69	399-3830-2-ND	2,000	306.00/M	T494B106K016AT
	22	±20	3.5	6.0	0.8	B	399-3835-1-ND	1.30	1.14	.99	399-3835-2-ND	2,000	442.00/M	T494B226M016AT
	22	±10	3.6	6.0	0.35	C	399-3845-1-ND	1.43	1.25	1.09	399-3845-2-ND	500	260.50	T494C226K016AT
	22	±20	3.6	6.0	0.35	C	399-3847-1-ND	1.28	1.12	.98	399-3847-2-ND	500	233.00	T494C226M016AT
	22	±10	3.6	6.0	0.25	D	399-3856-1-ND	2.18	1.90	1.66	399-3856-2-ND	500	396.50	T494D226K016AT
	100	±10	16	12	0.5	V	399-3866-1-ND	4.42	3.85	3.36	399-3866-2-ND	1,000	1503.00	T494V107K016AT
	150	±10	24	12	0.4	D	399-3854-1-ND	7.15	6.23	5.44	399-3854-2-ND	500	1301.50	T494D157K016AT
	150	±10	24	8.0	0.15	X	399-3870-1-ND	8.78	7.64	6.67	399-3870-2-ND	500	1597.00	T494X157K016AT
20	100	±20	20	8.0	0.15	X	399-3868-1-ND	8.32	7.24	6.33	399-3868-2-ND	500	1514.00	T494X107M020AT
25	6.8	±10	1.7	8.0	2.0	B	399-3840-1-ND	1.35	1.18	1.03	399-3840-2-ND	2,000	459.00/M	T494B685K025AT
	10	±10	2.5	6.0	0.6	C	399-3842-1-ND	1.43	1.25	1.09	399-3842-2-ND	500	260.50	T494C106K025AT
	10	±20	2.5	6.0	0.6	C	399-3843-1-ND	1.28	1.12	.98	399-3843-2-ND	500	233.00	T494C106M025AT
	10	±10	2.5	6.0	0.4	D	399-3851-1-ND	2.18	1.90	1.66	399-3851-2-ND	500	396.50	T494D106K025AT
	22	±10	5.5	8.0	1.0	C	399-3846-1-ND	1.69	1.47	1.29	399-3846-2-ND	500	307.50	T494C226K025AT
	47	±20	11.8	10.0	0.2	D	399-3860-1-ND	6.83	5.94	5.19	399-3860-2-ND	500	1242.00	T494D476M025AT
	68	±20	17.0	8.0	0.3	X	399-3874-1-ND	8.32	7.24	6.33	399-3874-2-ND	500	1514.00	T494X686M025AT
35	3.3	±20	1.2	6.0	1.3	B	399-3836-1-ND	1.30	1.14	.99	399-3836-2-ND	2,000	442.00/M	T494B335M035AT
	4.7	±10	1.7	6.0	0.7	D	399-3858-1-ND	2.18	1.90	1.66	399-3858-2-ND	500	396.50	T494D475K035AT
	10	±20	3.5	6.0	0.4	D	399-3852-1-ND	2.11	1.84	1.61	399-3852-2-ND	500	384.50	T494D106M035AT
	22	±10	7.7	6.0	0.30	X	399-3871-1-ND	7.15	6.23	5.44	399-3871-2-ND	500	1301.50	T494X226K035AT
	47	±10	16.5	8.0	0.5	X	399-3873-1-ND	10.08	8.77	7.66	399-3873-2-ND	500	1833.50	T494X476K035AT
50	2.2	±10	1.1	6.0	0.8	D	399-3855-1-ND	2.86	2.49	2.18	399-3855-2-ND	500	520.50	T494D225K050AT
	4.7	±10	2.4	6.0	0.6	D	399-3859-1-ND	2.86	2.49	2.18	399-3859-2-ND	500	520.50	T494D475K050AT
	6.8	±20	3.4	6.0	0.7	D	399-3862-1-ND	3.25	2.83	2.47	399-3862-2-ND	500	591.50	T494D685M050AT
	15	±10	7.5	8.0	0.4	X	399-3869-1-ND	9.75	8.49	7.41	399-3869-2-ND	500	1774.50	T494X156K050AT
T495 Series — Low ESR, Surge Robust														
4	150	±20	6	12.0	0.9	B	399-3347-1-ND	1.90	1.66	1.45	399-3347-2-ND	2,000	646.00/M	T495B157M004ASE900
	330	±10	13.2	12.0	0.7	C	399-3307-1-ND	2.30	2.01	1.75	—	—	—	T495C337K004ASE700
6.3	220	±10	13.9	10.0	0.225	C	399-3236-1-ND	2.30	2.01	1.75	399-3236-2-ND	500	418.50	T495C227K006ASE225
	470	±10	29.6	12.0	0.125	D	399-3348-1-ND	7.55	6.57	5.74	399-3348-2-ND	500	1374.00	T495D477K006ASE125
10	150	±20	15	8.0	0.15	V	399-3110-1-ND	3.85	3.35	2.93	399-3110-2-ND	1,000	1309.00	T495V157M010ASE150
	220	±20	22	12	0.15	V	399-3373-1-ND	3.95	3.44	3.01	399-3373-2-ND	1,000	1343.00	T495V227M010ASE150
	330	±10	33	10.0	0.125	D	399-3349-1-ND	7.55	6.57	5.74	—	—	—	T495D337K010ASE125
16	68	±10	10.9	6.0	0.15	D	399-3200-1-ND	1.20	1.05	.92	—	—	—	T495D686K016ASE150
20	47	±10	7.5	4.0	0.15	X	399-1798-1-ND	2.50	2.18	1.90	399-1798-2-ND	500	455.00	T495X476K020ASE150
25	33	±10	6.6	4.0	0.175	X	399-1800-1-ND	2.63	2.29	2.00	399-1800-2-ND	500	400.40	T495X336K025ASE175
35	22	±10	7.7	6.0	0.3	D	399-3207-1-ND	2.40	2.09	1.83	399-3207-2-ND	500	254.80	T495D226K035ASE300
	22	±10	7.7	6.0	0.275	X	399-1801-1-ND	2.00	1.74	1.52	399-1801-2-ND	500	621.53	T495X226K035ASE275
50	6.8	±10	3.4	6.0	0.3	D	399-3237-1-ND	1.40	1.22	1.07	—	—	—	T495D685K050ASE300
	10	±20	5.0	6.0	0.3	X	399-3463-1-ND	7.55	6.57	5.74	399-3463-2-ND	500	1374.00	T495X106M050ASE300
T495 Series — Low ESR, Surge Robust — RoHS Compliant														
4	150	±20	6	12.0	0.9	B	399-3876-1-ND	1.90	1.66	1.45	399-3876-2-ND	2,000	646.00/M	T495B157M004ATE900
	330	±10	13.2	12.0	0.7	C	399-3878-1-ND	2.30	2.01	1.75	399-3878-2-ND	500	418.50	T495C337K004ATE700
6.3	100	±20	6.3	15.0	0.70	B	399-3875-1-ND	1.90	1.66	1.45	399-3875-2-ND	2,000	646.00/M	T495B107M006ATE700
	220	±10	13.9	10.0	0.225	C	399-3877-1-ND	2.30	2.01	1.75	399-3877-2-ND	500	418.50	T495C227K006ATE225
	330	±10	20.8	8.0	0.10	D	399-3883-1-ND	2.40	2.09	1.83	399-3883-2-ND	500	437.00	T495D337K006ATE100
	330	±10	19.8	8.0	0.10	X	399-3902-1-ND	2.50	2.18	1.90	399-3902-2-ND	500	455.00	T495X337K006ATE100
	470	±10	29.6	12.0	0.125	D	399-3886-1-ND	2.10	1.83	1.60	399-3886-2-ND	500	382.00	T495D477K006ATE125
10	100	±10	10	8.0	0.10	D	399-3879-1-ND	1.20	1.05	.92	399-3879-2-ND	500	218.50	T495D107K010ATE100
	150	±20	15	8.0	0.15	V	399-3891-1-ND	3.85	3.35	2.93	399-3891-2-ND	1,000	1309.00	T495V157M010ATE150
	220	±10	22	8.0	0.125	D	399-3881-1-ND	1.90	1.66	1.45	399-3881-2-ND	500	346.00	T495D227K010ATE125
	220	±20	22	12	0.15	V	399-3892-1-ND	3.95	3.44	3.01	—	—	—	T495V227M010ATE150
	220	±10	22	8.0	0.10	X	399-3900-1-ND	2.50	2.18	1.90	399-3900-2-ND	500	455.00	T495X227K010ATE100
	330	±10	33	10.0	0.125	D	399-3884-1-ND	2.10	1.83	1.60	399-3884-2-ND	500	382.00	T495D337K010ATE125
	330	±10	33	10	0.06	X	399-3903-1-ND	3.00	2.61	2.28	399-3903-2-ND	500	546.00	T495X337K010ATE060
16	68	±10	10.9	6.0	0.15	D	399-3889-1-ND	1.20	1.05	.92	399-3889-2-ND	500	437.00	T495D686K016ATE150
	100	±10	16	8.0	0.10	X	399-3895-1-ND	2.40	2.09	1.83	399-3895-2-ND	500	437.00	T495X107K016ATE100
	100	±20	16	8.0	0.10	X	399-3896-1-ND	2.40	2.09	1.83	399-3896-2-ND	500	437.00	T495X107M016ATE100
	150	±10	24	8.0	0.10	X	399-3898-1-ND	2.50	2.18	1.90	399-3898-2-ND	500	455.00	T495X157K016ATE100
20	47	±10	7.5	4.0	0.15	X	399-3904-1-ND	2.20	1.92	1.68	399-3904-2-ND	500	400.50	T495X476K020ATE150

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ +25°C Max.	DF % @ +25°C 120Hz Max.	ESR Ω @ +25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Size	Pricing	
20	47	±10	9.4	6.0	0.175	D	399-3885-1-ND	1.40	1.22	1.07	399-3885-2-ND	500	255.00	T495D476K020ATE175
	68	±10	13.6	8.0	0.15	D	399-3890-1-ND	1.40	1.22	1.07	399-3890-2-ND	500	255.00	T495D686K020ATE150
	68	±10	13.6	6.0	0.15	X	399-3907-1-ND	2.40	2.09	1.83	399-3907-2-ND	500	437.00	T495X686K020ATE150
25	33	±10	6.6	4.0	0.175	X	399-3901-1-ND	2.20	1.92	1.68	399-3901-2-ND	500	400.50	T495X336K025ATE175
	33	±10	8.3	6.0	0.3	D	399-3882-1-ND	1.40	1.22	1.07	399-3882-2-ND	500	255.00	T495D336K025ATE300
	47	±20	11.8	6.0	0.2	X	399-3906-1-ND	2.50	2.18	1.90	399-3906-2-ND	500	455.00	T495X476M025ATE200
	68	±10	17	8.0	0.2	X	399-3908-1-ND	2.50	2.18	1.90	399-3908-2-ND	500	455.00	T495X686K025ATE200
35	6.8	±10	2.4	6.0	0.4	D	399-3887-1-ND	1.20	1.05	.92	399-3887-2-ND	500	218.50	T495D685K035ATE400
	22	±10	7.7	6.0	0.3	D	399-3880-1-ND	1.20	1.05	.92	399-3880-2-ND	500	218.50	T495D226K035ATE300
	22	±10	7.7	6.0	0.275	X	399-3899-1-ND	2.40	2.09	1.83	399-3899-2-ND	500	437.00	T495X226K035ATE275
	47	±10	16.5	8.0	0.3	X	399-3905-1-ND	2.50	2.18	1.90	399-3905-2-ND	500	455.00	T495X476K035ATE300
50	6.8	±10	3.4	6.0	0.3	D	399-3888-1-ND	2.00	1.74	1.52	399-3888-2-ND	500	364.00	T495D685K050ATE300
	10	±10	5.0	6.0	0.3	X	399-3893-1-ND	7.55	6.57	5.74	399-3893-2-ND	500	1374.00	T495X106K050ATE300
	10	±20	5.0	6.0	0.3	X	399-3894-1-ND	7.55	6.57	5.74	399-3894-2-ND	500	1374.00	T495X106M050ATE300
	15	±10	7.5	8.0	0.3	X	399-3897-1-ND	7.55	6.57	5.74	399-3897-2-ND	500	1374.00	T495X156K050ATE300
							T496 Series — Fused							
4	330	±10	13.2	8.0	0.7	X	399-1665-1-ND	7.50	6.53	5.70	399-1665-2-ND	500	1365.00	T496X337K004AS
	330	±20	13.2	8.0	0.7	X	399-1666-1-ND	7.00	6.09	5.32	—	—	—	T496X337M004AS
6.3	10	±10	0.6	6.0	3.5	B	399-1667-1-ND	1.80	1.57	1.37	399-1667-2-ND	2,000	612.00/M	T496B106K006AS
	10	±20	0.6	6.0	3.5	B	399-1668-1-ND	1.65	1.44	1.26	399-1668-2-ND	2,000	561.00/M	T496B106M006AS
	100	±20	6	8.0	0.8	D	399-1670-1-ND	3.75	3.27	2.85	—	—	—	T496D107M006AS
	100	±10	6	8.0	0.9	X	399-1671-1-ND	7.00	6.09	5.32	399-1671-2-ND	500	1274.00	T496X107K006AS
	100	±20	6	8.0	0.9	X	399-1672-1-ND	6.50	5.66	4.94	399-1672-2-ND	500	1183.00	T496X107M006AS
10	4.7	±10	0.5	6.0	3.5	B	399-1673-1-ND	1.80	1.57	1.37	399-1673-2-ND	2,000	612.00/M	T496B475K010AS
	4.7	±20	0.5	6.0	3.5	B	399-1674-1-ND	1.65	1.44	1.26	399-1674-2-ND	2,000	561.00/M	T496B475M010AS
	22	±10	2.2	6.0	2.0	C	399-1675-1-ND	3.00	2.61	2.28	399-1675-2-ND	500	546.00	T496C226K010AS
	22	±20	2.2	6.0	2.0	C	399-1676-1-ND	2.75	2.40	2.09	399-1676-2-ND	500	500.50	T496C226M010AS
	33	±10	3.3	6.0	1.0	D	399-1677-1-ND	3.90	3.40	2.97	—	—	—	T496D336K010AS
	33	±20	3.3	6.0	1.0	D	399-1678-1-ND	3.75	3.27	2.85	399-1678-2-ND	500	682.50	T496D336M010AS
	47	±10	4.7	6.0	1.0	D	399-1679-1-ND	3.90	3.40	2.97	399-1679-2-ND	500	710.00	T496D476K010AS
	47	±20	4.7	6.0	1.0	D	399-1680-1-ND	3.75	3.27	2.85	399-1680-2-ND	500	682.50	T496D476M010AS
	68	±10	6.8	6.0	0.9	X	399-1683-1-ND	7.00	6.09	5.32	—	—	—	T496X686K010AS
	68	±20	6.8	6.0	0.9	X	399-1684-1-ND	6.50	5.66	4.94	399-1684-2-ND	500	1183.00	T496X686M010AS
	100	±10	10	8.0	0.7	D	399-1681-1-ND	4.15	3.62	3.16	399-1681-2-ND	500	755.50	T496D107K010AS
	100	±20	10	8.0	0.7	D	399-1682-1-ND	4.00	3.48	3.04	—	—	—	T496D107M010AS
	220	±20	22	8.00	0.5	X	399-1686-1-ND	8.50	7.40	6.46	399-1686-2-ND	500	1547.00	T496X227M010AS
16	2.2	±10	0.5	6.0	3.5	B	399-1687-1-ND	1.80	1.57	1.37	399-1687-2-ND	2,000	612.00/M	T496B225K016AS
	2.2	±20	0.5	6.0	3.5	B	399-1688-1-ND	1.65	1.44	1.26	399-1688-2-ND	2,000	561.00/M	T496B225M016AS
	4.7	±10	0.8	6.0	3.5	B	399-1689-1-ND	1.80	1.57	1.37	—	—	—	T496B475K016AS
	4.7	±20	0.8	6.0	3.5	B	399-1690-1-ND	1.65	1.44	1.26	399-1690-2-ND	2,000	561.00/M	T496B475M016AS
	10	±10	1.6	6.0	3.5	B	399-1691-1-ND	1.90	1.66	1.45	399-1691-2-ND	2,000	646.00/M	T496B106K016AS
	10	±20	1.6	6.0	3.5	B	399-1692-1-ND	1.80	1.57	1.37	399-1692-2-ND	2,000	612.00/M	T496B106M016AS
	10	±10	1.6	6.0	2.0	C	399-1693-1-ND	3.00	2.61	2.28	399-1693-2-ND	500	546.00	T496C106K016AS
	10	±20	1.6	6.0	2.0	C	399-1694-1-ND	2.75	2.40	2.09	399-1694-2-ND	500	500.50	T496C106M016AS
	15	±10	2.4	6.0	2.0	C	399-1695-1-ND	3.00	2.61	2.28	399-1695-2-ND	500	546.00	T496C156K016AS
	15	±20	2.4	6.0	2.0	C	399-1696-1-ND	2.75	2.40	2.09	399-1696-2-ND	500	500.50	T496C156M016AS
	22	±10	3.6	6.0	1.6	C	399-1697-1-ND	3.15	2.75	2.40	—	—	—	T496C226K016AS
	22	±20	3.6	6.0	1.6	C	399-1698-1-ND	2.90	2.53	2.21	399-1698-2-ND	500	528.00	T496C226M016AS
	33	±10	5.3	6.0	1.0	D	399-1699-1-ND	3.90	3.40	2.97	399-1699-2-ND	500	710.00	T496D336K016AS
	33	±20	5.3	6.0	1.0	D	399-1700-1-ND	3.75	3.27	2.85	399-1700-2-ND	500	682.50	T496D336M016AS
	47	±10	7.5	6.0	0.8	D	399-1701-1-ND	3.90	3.40	2.97	—	—	—	T496D476K016AS
	47	±20	7.5	6.0	0.8	D	399-1702-1-ND	3.75	3.27	2.85	—	—	—	T496D476M016AS
	47	±10	7.5	6.0	0.9	X	399-1703-1-ND	7.00	6.09	5.32	—	—	—	T496X476K016AS
	47	±20	7.5	6.0	0.9	X	399-1704-1-ND	6.50	5.66	4.94	—	—	—	T496X476M016AS
	100	±10	16	8.0	0.7	X	399-1705-1-ND	7.50	6.53	5.70	—	—	—	T496X107K016AS
	100	±20	16	8.0	0.7	X	399-1706-1-ND	7.00	6.09	5.32	399-1706-2-ND	500	1274.00	T496X107M016AS
20	2.2	±10	0.5	6.0	3.5	B	399-1707-1-ND	1.80	1.57	1.37	399-1707-2-ND	2,000	612.00/M	T496B225K020AS
	6.8	±10	1.4	6.0	2.0	C	399-1709-1-ND	3.00	2.61	2.28	—	—	—	T496C685K020AS
	6.8	±20	1.4	6.0	2.0	C	399-1710-1-ND	2.75	2.40	2.09	399-1710-2-ND	500	500.50	T496C685M020AS
	10	±20	2	6.0	2.0	C	399-1712-1-ND	2.75	2.40	2.09	—	—	—	T496C106M020AS
	22	±20	4.4	6.0	1.0	D	399-1714-1-ND	3.75	3.27	2.85	399-1714-2-ND	500	682.50	T496D226M020AS
	33	±10	6.6	6.0	0.9	X	399-1715-1-ND	7.00	6.09	5.32	399-1715-2-ND	500	1274.00	T496X336K020AS
	33	±20	6.6	6.0	0.9	X	399-1716-1-ND	6.50	5.66	4.94	399-1716-2-ND	500	1183.00	T496X336M020AS
	47	±10	9.4	6.0	0.3	X	399-3464-1-ND	7.50	6.53	5.70	399-3464-2-ND	500	1365.00	T496X476K020AS
	47	±20	9.4	6.0	0.3	X	399-3465-1-ND	7.00	6.09	5.32	399-3465-2-ND	500	1274.00	T496X476M020AS
25	4.7	±10	1.2	6.0	2.5	C	399-1717-1-ND	3.00	2.61	2.28	399-1717-2-ND	500	546.00	T496C475K025AS
	4.7	±20	1.2	6.0	2.5	C	399-1718-1-ND	2.75	2.40	2.09	399-1718-2-ND	500	500.50	T496C475M025AS
	10	±10	2.5	6.0	0.6	C	399-3466-1-ND	3.15	2.75	2.40	—	—	—	T496C106K025AS
	10	±10	2.5	6.0	1.2	D	399-1719-1-ND	3.90	3.40	2.97	—	—	—	T496D106K025AS
	10	±20	2.5	6.0	1.2	D	399-1720-1-ND	3.75	3.27	2.85	—	—	—	T496D106M025AS
	22	±10	5.5	6.0	0.8	D	399-1721-1-ND	3.90	3.40	2.97	399-1721-2-ND	500	710.00	T496D226K025AS
	22	±20	5.5	6.0	0.8	D	399-1722-1-ND	3.75	3.27	2.85	—	—	—	T496D226M025AS
	22	±10	5.5	6.0	0.9	X	399-1723-1-ND	7.00	6.09	5.32	—	—	—	T496X226K025AS
	22	±20	5.5	6.0	0.9	X	399-1724-1-ND	6.50	5.66	4.94	—	—	—	T496X226M025AS
35	1.0	±10	0.5	4.0	5.0	B	399-1725-1-ND	1.80	1.57	1.37	—	—	—	T496B105K035AS
	1.0	±20	0.5	4.0	5.0	B	399-1726-1-ND	1.65	1.44	1.26	—	—	—	T496B105M035AS
	2.2	±10	0.8	6.0	3.5	C	399-1727-1-ND	3.00	2.61	2.28	399-1727-2-ND	500	546.00	T496C225K035AS
	2.2	±20	0.8	6.0	3.5	C	399-1728-1-ND	2.75	2.40	2.09	399-1728-2-ND	500	500.50	T496C225M035AS
	4.7	±10	1.7	6.0	1.5	D	399-1729-1-ND	3.90	3.40	2.97	399-1729-2-ND	500	710.00	T496D475K035AS
	4.7	±20	1.7	6.0	1.5	D	399-1730-1-ND	3.75	3.27	2.85	399-1730-2-ND	500	682.50	T496D475M035AS
	6.8	±10	2.4	6.0	1.3	D	399-1731-1-ND	3.90	3.40	2.97	—	—	—	T496D685K035AS
	6.8	±20	2.4	6.0	1.3	D	399-1732-1-ND	3.75	3.27	2.85	399-1732-2-ND	500	682.50	T496D685M035AS
	10	±20	3.5	6.0	1.0	X	399-1734-1-ND	6.50	5.66	4.94	399-1734-2-ND	500	1183.00	T496X106M035AS
	15	±10	5.3	6.0	0.9	X	399-1735-1-ND	7.50	6.53	5.70	—	—	—	T496X156K035AS
	15	±20	5.3	6.0	0.9	X	399-1736-1-ND	7.00	6.09	5.32	—	—	—	T496X156M035AS
50	1.0	±10	0.5	4.0	5.5	C	399-1737-1-ND	3.38	2.94	2.57	399-1737-2-ND	500	614.50	T496C105K050AS
	1.0	±20	0.5	4.0	5.5	C	399-1738-1-ND	3.30	2.88	2.51	399-1738-2-ND	500	600.50	T496C105M050AS
	4.7	±10	2.4	6.0	1.5	X	399-1739-1-ND	8.00	6.96	6.08	—	—	—	T496X475K050AS
	4.7	±20	2.4	6.0	1.5	X	399-1740-1-ND	7.50	6.53	5.70	399-1740-2-ND	500	1365.00	T496X475M050AS

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ +25°C Max.	DF % @ +25°C 120Hz Max.	ESR Ω @ +25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
T496 Series — Fused — RoHS Compliant														
4	330	±10	13.2	8.0	0.7	X	399-3979-1-ND	7.50	6.53	5.70	399-3979-2-ND	500	1365.00	T496X337K004AT
	330	±20	13.2	8.0	0.7	X	399-3980-1-ND	7.00	6.09	5.32	399-3980-2-ND	500	1274.00	T496X337M004AT
6.3	10	±10	0.6	6.0	3.5	B	399-3911-1-ND	1.80	1.57	1.37	399-3911-2-ND	2,000	612.00/M	T496B106K006AT
	10	±20	0.6	6.0	3.5	B	399-3913-1-ND	1.65	1.44	1.26	399-3913-2-ND	2,000	561.00/M	T496B106M006AT
	100	±10	6	8.0	0.8	D	399-3945-1-ND	3.90	3.40	2.97	399-3945-2-ND	500	710.00	T496D107K006AT
	100	±20	6	8.0	0.8	D	399-3947-1-ND	3.75	3.27	2.85	399-3947-2-ND	500	682.50	T496D107M006AT
	100	±10	6	8.0	0.9	X	399-3967-1-ND	7.00	6.09	5.32	399-3967-2-ND	500	1274.00	T496X107K006AT
	100	±20	6	8.0	0.9	X	399-3969-1-ND	6.50	5.66	4.94	399-3969-2-ND	500	1183.00	T496X107M006AT
10	4.7	±10	0.5	6.0	3.5	B	399-3919-1-ND	1.80	1.57	1.37	399-3919-2-ND	2,000	612.00/M	T496B475K010AT
	4.7	±20	0.5	6.0	3.5	B	399-3921-1-ND	1.65	1.44	1.26	399-3921-2-ND	2,000	561.00/M	T496B475M010AT
	22	±10	2.2	6.0	2.0	C	399-3935-1-ND	3.00	2.61	2.28	399-3935-2-ND	500	546.00	T496C226K010AT
	22	±20	2.2	6.0	2.0	C	399-3937-1-ND	2.75	2.40	2.09	399-3937-2-ND	500	500.50	T496C226M010AT
	33	±10	3.3	6.0	1.0	D	399-3953-1-ND	3.90	3.40	2.97	399-3953-2-ND	500	710.00	T496D336K010AT
	33	±20	3.3	6.0	1.0	D	399-3955-1-ND	3.75	3.27	2.85	399-3955-2-ND	500	682.50	T496D336M010AT
	47	±10	4.7	6.0	1.0	D	399-3959-1-ND	3.90	3.40	2.97	399-3959-2-ND	500	710.00	T496D476K010AT
	47	±20	4.7	6.0	1.0	D	399-3961-1-ND	3.75	3.27	2.85	399-3961-2-ND	500	682.50	T496D476M010AT
	68	±10	6.8	6.0	0.9	X	399-3987-1-ND	7.00	6.09	5.32	399-3987-2-ND	500	1274.00	T496X686K010AT
	68	±20	6.8	6.0	0.9	X	399-3988-1-ND	6.50	5.66	4.94	399-3988-2-ND	500	1183.00	T496X686M010AT
	100	±10	10	8.0	0.7	D	399-3946-1-ND	4.15	3.62	3.16	399-3946-2-ND	500	755.50	T496D107K010AT
	100	±20	10	8.0	0.7	D	399-3948-1-ND	4.00	3.48	3.04	399-3948-2-ND	500	728.00	T496D107M010AT
	220	±10	22	8.0	0.5	X	399-3975-1-ND	9.00	7.83	6.84	399-3975-2-ND	500	1638.00	T496X227K010AT
	220	±20	22	8.00	0.5	X	399-3976-1-ND	8.50	7.40	6.46	399-3976-2-ND	500	1547.00	T496X227M010AT
16	2.2	±10	0.5	6.0	3.5	B	399-3915-1-ND	1.80	1.57	1.37	399-3915-2-ND	2,000	612.00/M	T496B225K016AT
	2.2	±20	0.5	6.0	3.5	B	399-3917-1-ND	1.65	1.44	1.26	399-3917-2-ND	2,000	561.00/M	T496B225M016AT
	4.7	±10	0.8	6.0	3.5	B	399-3920-1-ND	1.80	1.57	1.37	399-3920-2-ND	2,000	612.00/M	T496B475K016AT
	4.7	±20	0.8	6.0	3.5	B	399-3922-1-ND	1.65	1.44	1.26	399-3922-2-ND	2,000	561.00/M	T496B475M016AT
	10	±10	1.6	6.0	3.5	B	399-3912-1-ND	1.90	1.66	1.45	399-3912-2-ND	2,000	646.00/M	T496B106K016AT
	10	±20	1.6	6.0	3.5	B	399-3914-1-ND	1.80	1.57	1.37	399-3914-2-ND	2,000	612.00/M	T496B106M016AT
	10	±10	1.6	6.0	2.0	C	399-3925-1-ND	3.00	2.61	2.28	399-3925-2-ND	500	546.00	T496C106K016AT
	10	±20	1.6	6.0	2.0	C	399-3928-1-ND	2.75	2.40	2.09	399-3928-2-ND	500	500.50	T496C106M016AT
	15	±10	2.4	6.0	2.0	C	399-3931-1-ND	3.00	2.61	2.28	399-3931-2-ND	500	546.00	T496C156K016AT
	15	±20	2.4	6.0	2.0	C	399-3932-1-ND	2.75	2.40	2.09	399-3932-2-ND	500	500.50	T496C156M016AT
	22	±10	3.6	6.0	1.6	C	399-3936-1-ND	3.15	2.75	2.40	399-3936-2-ND	500	573.50	T496C226K016AT
	22	±20	3.6	6.0	1.6	C	399-3938-1-ND	2.90	2.53	2.21	399-3938-2-ND	500	528.00	T496C226M016AT
	33	±10	5.3	6.0	1.0	D	399-3954-1-ND	3.90	3.40	2.97	399-3954-2-ND	500	710.00	T496D336K016AT
	33	±20	5.3	6.0	1.0	D	399-3956-1-ND	3.75	3.27	2.85	399-3956-2-ND	500	682.50	T496D336M016AT
	47	±10	7.5	6.0	0.8	D	399-3960-1-ND	3.90	3.40	2.97	399-3960-2-ND	500	710.00	T496D476K016AT
	47	±20	7.5	6.0	0.8	D	399-3962-1-ND	3.75	3.27	2.85	399-3962-2-ND	500	682.50	T496D476M016AT
	47	±10	7.5	6.0	0.9	X	399-3983-1-ND	7.00	6.09	5.32	399-3983-2-ND	500	1274.00	T496X476K016AT
	47	±20	7.5	6.0	0.9	X	399-3985-1-ND	6.50	5.66	4.94	399-3985-2-ND	500	1183.00	T496X476M016AT
	100	±10	16	8.0	0.7	X	399-3968-1-ND	7.50	6.53	5.70	399-3968-2-ND	500	1365.00	T496X107K016AT
	100	±20	16	8.0	0.7	X	399-3970-1-ND	7.00	6.09	5.32	399-3970-2-ND	500	1274.00	T496X107M016AT
20	2.2	±10	0.5	6.0	3.5	B	399-3916-1-ND	1.80	1.57	1.37	399-3916-2-ND	2,000	612.00/M	T496B225K020AT
	2.2	±20	0.5	6.0	3.5	B	399-3918-1-ND	1.65	1.44	1.26	399-3918-2-ND	2,000	561.00/M	T496B225M020AT
	6.8	±10	1.4	6.0	2.0	C	399-3941-1-ND	3.00	2.61	2.28	399-3941-2-ND	500	546.00	T496C685K020AT
	6.8	±20	1.4	6.0	2.0	C	399-3942-1-ND	2.75	2.40	2.09	399-3942-2-ND	500	500.50	T496C685M020AT
	10	±10	2	6.0	2.0	C	399-3926-1-ND	3.00	2.61	2.28	399-3926-2-ND	500	546.00	T496C106K020AT
	10	±20	2	6.0	2.0	C	399-3929-1-ND	2.75	2.40	2.09	399-3929-2-ND	500	500.50	T496C106M020AT
	22	±10	4.4	6.0	1.0	D	399-3949-1-ND	3.90	3.40	2.97	399-3949-2-ND	500	710.00	T496D226K020AT
	22	±20	4.4	6.0	1.0	D	399-3951-1-ND	3.75	3.27	2.85	399-3951-2-ND	500	682.50	T496D226M020AT
	33	±10	6.6	6.0	0.9	X	399-3977-1-ND	7.00	6.09	5.32	399-3977-2-ND	500	1274.00	T496X336K020AT
	33	±20	6.6	6.0	0.9	X	399-3978-1-ND	6.50	5.66	4.94	399-3978-2-ND	500	1183.00	T496X336M020AT
	47	±10	9.4	6.0	0.3	X	399-3984-1-ND	7.50	6.53	5.70	399-3984-2-ND	500	1365.00	T496X476K020AT
	47	±20	9.4	6.0	0.3	X	399-3986-1-ND	7.00	6.09	5.32	399-3986-2-ND	500	1274.00	T496X476M020AT
25	4.7	±10	1.2	6.0	2.5	C	399-3939-1-ND	3.00	2.61	2.28	399-3939-2-ND	500	546.00	T496C475K025AT
	4.7	±20	1.2	6.0	2.5	C	399-3940-1-ND	2.75	2.40	2.09	399-3940-2-ND	500	500.50	T496C475M025AT
	10	±10	2.5	6.0	0.6	C	399-3927-1-ND	3.15	2.75	2.40	399-3927-2-ND	500	573.50	T496C106K025AT
	10	±20	2.5	6.0	0.6	C	399-3930-1-ND	2.90	2.53	2.21	399-3930-2-ND	500	528.00	T496C106M025AT
	10	±10	2.5	6.0	1.2	D	399-3943-1-ND	3.90	3.40	2.97	399-3943-2-ND	500	710.00	T496D106K025AT
	10	±20	2.5	6.0	1.2	D	399-3944-1-ND	3.75	3.27	2.85	399-3944-2-ND	500	682.50	T496D106M025AT
	22	±10	5.5	6.0	0.8	D	399-3950-1-ND	3.90	3.40	2.97	399-3950-2-ND	500	710.00	T496D226K025AT
	22	±20	5.5	6.0	0.8	D	399-3952-1-ND	3.75	3.27	2.85	399-3952-2-ND	500	682.50	T496D226M025AT
	22	±10	5.5	6.0	0.9	X	399-3973-1-ND	7.00	6.09	5.32	399-3973-2-ND	500	1274.00	T496X226K025AT
	22	±20	5.5	6.0	0.9	X	399-3974-1-ND	6.50	5.66	4.94	399-3974-2-ND	500	1183.00	T496X226M025AT
35	1.0	±10	0.5	4.0	5.0	B	399-3909-1-ND	1.80	1.57	1.37	399-3909-2-ND	2,000	612.00/M	T496B105K035AT
	1.0	±20	0.5	4.0	5.0	B	399-3910-1-ND	1.65	1.44	1.26	399-3910-2-ND	2,000	561.00/M	T496B105M035AT
	2.2	±10	0.8	6.0	3.5	C	399-3933-1-ND	3.00	2.61	2.28	399-3933-2-ND	500	546.00	T496C225K035AT
	2.2	±20	0.8	6.0	3.5	C	399-3934-1-ND	2.75	2.40	2.09	399-3934-2-ND	500	500.50	T496C225M035AT
	4.7	±10	1.7	6.0	1.5	D	399-3957-1-ND	3.90	3.40	2.97	399-3957-2-ND	500	710.00	T496D475K035AT
	4.7	±20	1.7	6.0	1.5	D	399-3958-1-ND	3.75	3.27	2.85	399-3958-2-ND	500	682.50	T496D475M035AT
	6.8	±10	2.4	6.0	1.3	D	399-3963-1-ND	3.90	3.40	2.97	399-3963-2-ND	500	710.00	T496D685K035AT
	6.8	±20	2.4	6.0	1.3	D	399-3964-1-ND	3.75	3.27	2.85	399-3964-2-ND	500	682.50	T496D685M035AT
	10	±10	3.5	6.0	1.0	X	399-3965-1-ND	7.00	6.09	5.32	399-3965-2-ND	500	1274.00	T496X106K035AT
	10	±20	3.5	6.0	1.0	X	399-3966-1-ND	6.50	5.66	4.94	399-3966-2-ND	500	1183.00	T496X106M035AT
	15	±10	5.3	6.0	0.9	X	399-3971-1-ND	7.50	6.53	5.70	399-3971-2-ND	500	1365.00	T496X156K035AT
	15	±20	5.3	6.0	0.9	X	399-3972-1-ND	7.00	6.09	5.32	399-3972-2-ND	500	1274.00	T496X156M035AT
50	1.0	±10	0.5	4.0	5.5	C	399-3923-1-ND	3.38	2.94	2.57	399-3923-2-ND	500	614.50	T496C105K050AT
	1.0	±20	0.5	4.0	5.5	C	399-3924-1-ND	3.30	2.88	2.51	399-3924-2-ND	500	600.50	T496C105M050AT
	4.7	±10	2.4	6.0	1.5	X	399-3981-1-ND	8.00	6.96	6.08	399-3981-2-ND	500	1456.00	T496X475K050AT
	4.7	±20	2.4	6.0	1.5	X	399-3982-1-ND	7.50	6.53	5.70	399-3982-2-ND	500	1365.00	T496X475M050AT
T510 Series — Ultra-Low ESR														
4	680	±10	27.2	6.0	0.030	X	399-1749-1-ND	14.75	12.84	11.21	399-1749-2-ND	500	2684.50	T510X687K004AS
	680	±20	27.2	6.0	0.030	X	399-1750-1-ND	14.00	12.18	10.64	399-1750-2-ND	500	2548.00	T510X687M004AS
	1000	±10	40	6.0	0.018	E	399-1741-1-ND	18.00	15.66	13.68	399-1741-2-ND	500	3276.00	T510E108K004AS
	1000	±10	40	6.0	0.010	E	399-1742-1-ND	18.50	16.10	14.06	—	—	—	T510E108K004AS4115
	1000	±20	40	6.0	0.018	E	399-1743-1-ND	16.75	14.58	12.73	399-1743-2-ND	500	3048.50	T510E108M004AS
	1000	±20	40	6.0	0.010	E	399-1744-1-ND	17.25	15.01	13.11	399-1744-2-ND	500	3139.50	T510E108M004AS4115
6.3	470	±10	28.2	6.0	0.030	X	399-1751-1-ND	14.75	12.84	11.21	—	—	—	T510X477K006AS
	470	±20	28.2	6.0	0.030	X	399-1752-1-ND	14.00	12.18	10.64	—	—	—	T510X477M006AS

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

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WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ +25°C Max.	DF % @ +25°C 120Hz Max.	ESR Ω @ +25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Size	Pricing	
6.3	680	±20	40.8	6.0	0.023	E	399-1747-1-ND	16.75	14.58	12.73	399-1747-2-ND	500	3048.50	T510E687M006AS
	680	±20	40.8	6.0	0.012	E	399-1748-1-ND	16.75	14.58	12.73	399-1748-2-ND	500	3139.50	T510E687M006AS4115
T510 Series — Ultra-Low ESR — RoHS Compliant														
4	680	±10	27.2	6.0	0.030	X	399-4002-1-ND	14.75	12.84	11.21	399-4002-2-ND	500	2684.50	T510X687K004AT
	680	±20	27.2	6.0	0.030	X	399-4003-1-ND	14.00	12.18	10.64	399-4003-2-ND	500	2548.00	T510X687M004AT
	1000	±10	40	6.0	0.018	E	399-3990-1-ND	18.00	15.66	13.68	399-3990-2-ND	500	3276.00	T510E108K004AT
	1000	±10	40	6.0	0.010	E	399-3991-1-ND	18.50	16.10	14.06	399-3991-2-ND	500	3367.00	T510E108K004AT4115
	1000	±20	40	6.0	0.018	E	399-3992-1-ND	16.75	14.58	12.73	399-3992-2-ND	500	3048.50	T510E108M004AT
	1000	±20	40	6.0	0.010	E	399-3993-1-ND	17.25	15.01	13.11	399-3993-2-ND	500	3139.50	T510E108M004AT4115
6.3	470	±10	28.2	6.0	0.030	X	399-4000-1-ND	14.75	12.84	11.21	399-4000-2-ND	500	2684.50	T510X477K006AT
	470	±20	28.2	6.0	0.030	X	399-4001-1-ND	14.00	12.18	10.64	399-4001-2-ND	500	2548.00	T510X477M006AT
	680	±10	40.8	6.0	0.023	E	399-3994-1-ND	18.00	15.66	13.68	399-3994-2-ND	500	3276.00	T510E687K006AT
	680	±10	40.8	6.0	0.012	E	399-3995-1-ND	18.50	16.10	14.06	399-3995-2-ND	500	3367.00	T510E687K006AT4115
	680	±20	40.8	6.0	0.023	E	399-3996-1-ND	16.75	14.58	12.73	399-3996-2-ND	500	3048.50	T510E687M006AT
	680	±20	40.8	6.0	0.012	E	399-3997-1-ND	17.25	15.01	13.11	399-3997-2-ND	500	3139.50	T510E687M006AT4115
10	330	±10	33	6.0	0.035	X	399-3998-1-ND	14.75	12.84	11.21	399-3998-2-ND	500	2684.50	T510X337K010AT
	330	±20	33	6.0	0.035	X	399-3999-1-ND	14.00	12.18	10.64	399-3999-2-ND	500	2548.00	T510X337M010AT
25	100	±20	25	8.0	0.050	E	399-3989-1-ND	16.25	14.14	12.35	399-3989-2-ND	500	2957.50	T510E107M025AT
T520 Series — KO-CAP Polymer Tantalum														
2	470	±20	94	10.0	0.040	V	399-3156-1-ND	4.50	3.92	3.42	399-3156-2-ND	1,000	1530.00	T520V477M002ASE040
2.5	100	±20	25	8.0	0.070	B	399-3157-1-ND	1.10	.96	.84	399-3157-2-ND	2,000	374.00/M	T520B107M2R5ASE070
	100	±20	25	8.0	0.040	B	399-3314-1-ND	1.30	1.14	.99	399-3314-2-ND	2,000	442.00/M	T520B107M2R5ASE040
	220	±20	55	8.0	0.070	B	399-3375-1-ND	1.25	1.09	.95	399-3375-2-ND	2,000	425.00/M	T520B227M2R5ASE070
	220	±20	55	8.0	0.035	B	399-3469-1-ND	1.45	1.27	1.11	399-3469-2-ND	2,000	493.00/M	T520B227M2R5ATE035
	220	±20	55	10.0	0.045	V	399-3240-1-ND	3.50	3.05	2.66	399-3240-2-ND	1,000	1190.00	T520V227M2R5ASE045
	220	±20	55	10.0	0.025	V	399-3239-1-ND	3.75	3.27	2.85	399-3239-2-ND	1,000	1275.00	T520V227M2R5ASE025
	220	±20	55	10.0	0.015	V	399-3238-1-ND	4.00	3.48	3.04	399-3238-2-ND	1,000	1360.00	T520V227M2R5ASE015
	220	±20	55	10.0	0.012	V	399-3392-1-ND	4.00	3.48	3.04	399-3392-2-ND	1,000	1360.00	T520V227M2R5ASE012
	220	±20	55	10.0	0.009	V	399-3391-1-ND	4.25	3.70	3.23	399-3391-2-ND	1,000	1445.00	T520V227M2R5ASE009
	330	±20	83	10.0	0.025	V	399-3242-1-ND	4.50	3.92	3.42	399-3242-2-ND	1,000	1530.00	T520V337M2R5ASE025
	330	±20	83	10.0	0.015	V	399-3241-1-ND	4.75	4.14	3.61	399-3241-2-ND	1,000	1615.00	T520V337M2R5ASE015
	470	±20	118	10.0	0.009	V	399-3395-1-ND	5.00	4.35	3.80	—	—	—	T520V477M2R5ASE009
	470	±20	118	10.0	0.015	V	399-3158-1-ND	4.50	3.92	3.42	399-3158-2-ND	1,000	1530.00	T520V477M2R5ASE015
	680	±20	170	10.0	0.040	D	399-3244-1-ND	4.50	3.92	3.42	399-3244-2-ND	500	819.00	T520D687M2R5ASE040
	680	±20	170	10.0	0.015	D	399-3243-1-ND	4.75	4.14	3.61	—	—	—	T520D687M2R5ASE015
3	100	±20	30	8.0	0.070	B	399-3059-1-ND	1.10	.96	.84	—	—	—	T520B107M003ASE070
	100	±20	30	8.0	0.040	B	399-3315-1-ND	1.30	1.14	.99	399-3315-2-ND	2,000	442.00/M	T520B107M003ASE040
	150	±20	45	8.0	0.040	B	399-3316-1-ND	1.45	1.27	1.11	399-3316-2-ND	2,000	493.00/M	T520B157M003ASE040
	330	±20	99	10.0	0.025	V	399-3161-1-ND	4.50	3.92	3.42	399-3161-2-ND	1,000	1530.00	T520V337M003ASE025
	680	±20	204	10.0	0.040	D	399-3163-1-ND	4.50	3.92	3.42	399-3163-2-ND	500	819.00	T520D687M003ASE040
	680	±20	204	10.0	0.015	D	399-3164-1-ND	4.75	4.14	3.61	399-3164-2-ND	500	864.50	T520D687M003ASE015
	1000	±20	300	10.0	0.030	X	399-3165-1-ND	9.00	7.83	6.84	—	—	—	T520X108M003ASE030
	1000	±20	300	10.0	0.015	X	399-3166-1-ND	9.25	8.05	7.03	399-3166-2-ND	500	1683.50	T520X108M003ASE015
4	68	±20	27	8.0	0.070	B	399-3060-1-ND	1.10	.96	.84	399-3060-2-ND	2,000	374.00/M	T520B686M004ASE070
	68	±20	27	8.0	0.040	B	399-3317-1-ND	1.30	1.14	.99	—	—	—	T520B686M004ASE040
	100	±20	40	8.0	0.040	B	399-3318-1-ND	1.30	1.14	.99	—	—	—	T520B107M004ASE040
	150	±20	60	10.0	0.025	V	399-3247-1-ND	3.75	3.27	2.85	399-3247-2-ND	1,000	1275.00	T520V157M004ASE025
	150	±20	60	10.0	0.012	V	399-3384-1-ND	4.00	3.48	3.04	399-3384-2-ND	1,000	1360.00	T520V157M004ASE012
	150	±20	60	10.0	0.009	V	399-3383-1-ND	4.25	3.70	3.23	399-3383-2-ND	1,000	1445.00	T520V157M004ASE009
	150	±20	60	10.0	0.015	V	399-3246-1-ND	4.00	3.48	3.04	399-3246-2-ND	1,000	1360.00	T520V157M004ASE015
	220	±20	88	10.0	0.065	D	399-3321-1-ND	1.85	1.61	1.41	399-3321-2-ND	500	336.50	T520D227M004ASE065
	220	±20	88	10.0	0.045	V	399-1755-1-ND	3.75	3.27	2.85	—	—	—	T520V227M004ASE045
	220	±20	88	10.0	0.025	V	399-1756-1-ND	4.00	3.48	3.04	—	—	—	T520V227M004ASE025
	220	±20	88	10.0	0.012	V	399-3388-1-ND	4.25	3.70	3.23	399-3388-2-ND	1,000	1445.00	T520V227M004ASE012
	220	±20	88	10.0	0.009	V	399-3387-1-ND	4.50	3.92	3.42	399-3387-2-ND	1,000	1530.00	T520V227M004ASE009
	330	±20	132	10.0	0.045	D	399-3252-1-ND	1.85	1.61	1.41	—	—	—	T520D337M004ASE045
	330	±20	132	10.0	0.040	D	399-3250-1-ND	2.10	1.83	1.60	399-3250-2-ND	500	382.00	T520D337M004ASE040
	330	±20	132	10.0	0.015	D	399-3248-1-ND	2.35	2.05	1.79	399-3248-2-ND	500	427.50	T520D337M004ASE015
	330	±20	132	10.0	0.009	D	399-3378-1-ND	2.60	2.27	1.98	—	—	—	T520D337M004ASE009
	330	±20	132	10.0	0.040	V	399-3251-1-ND	3.75	3.27	2.85	399-3251-2-ND	1,000	1275.00	T520V337M004ASE040
	330	±20	132	10.0	0.025	V	399-3249-1-ND	4.00	3.48	3.04	399-3249-2-ND	1,000	1360.00	T520V337M004ASE025
	330	±20	132	10.0	0.012	V	399-3394-1-ND	4.25	3.70	3.23	399-3394-2-ND	1,000	1445.00	T520V337M004ASE012
	330	±20	132	10.0	0.009	V	399-3393-1-ND	4.50	3.92	3.42	399-3393-2-ND	1,000	1530.00	T520V337M004ASE009
	470	±20	188	10.0	0.018	D	399-3168-1-ND	2.40	2.09	1.83	399-3168-2-ND	500	437.00	T520D477M004ASE018
	470	±20	188	10.0	0.015	D	399-3352-1-ND	2.65	2.31	2.02	399-3352-2-ND	500	—	T520D477M004ASE015
	680	±20	272	10.0	0.035	X	399-3169-1-ND	9.00	7.83	6.84	—	—	—	T520X687M004ASE035
	680	±20	272	10.0	0.015	X	399-3170-1-ND	9.25	8.05	7.03	399-3170-2-ND	500	1683.50	T520X687M004ASE015
6.3	33	±20	21	8.0	0.070	B	399-3171-1-ND	1.10	.96	.84	399-3171-2-ND	2,000	374.00/M	T520B336M006ASE070
	33	±20	21	8.0	0.040	B	399-3322-1-ND	1.30	1.14	.99	—	—	—	T520B336M006ASE040
	47	±20	30	8.0	0.040	B	399-3323-1-ND	1.30	1.14	.99	—	—	—	T520B476M006ASE040
	68	±20	43	8.0	0.040	B	399-3324-1-ND	1.30	1.14	.99	—	—	—	T520B686M006ASE040
	100	±20	63	10.0	0.012	V	399-3382-1-ND	4.00	3.48	3.04	399-3382-2-ND	1,000	1360.00	T520V107M006ASE012
	100	±20	63	10.0	0.009	V	399-3381-1-ND	4.25	3.70	3.23	399-3381-2-ND	1,000	1445.00	T520V107M006ASE009
	150	±20	95	10.0	0.055	D	399-1759-1-ND	1.85	1.61	1.41	399-1759-2-ND	500	336.70	T520D157M006ASE055
	150	±20	94.5	10.0	0.025	D	399-3334-1-ND	2.10	1.83	1.60	—	—	—	T520D157M006ASE025
	150	±20	95	10.0	0.015	D	399-3177-1-ND	2.10	1.83	1.60	399-3177-2-ND	500	382.00	T520D157M006ASE015
	150	±20	95	10.0	0.045	V	399-1758-1-ND	3.75	3.27	2.85	399-1758-2-ND	1,000	1275.00	T520V157M006ASE045
	150	±20	95	10.0	0.040	V	399-3255-1-ND	3.75	3.27	2.85	399-3255-2-ND	1,000	1275.00	T520V157M006ASE040
	150	±20	95	10.0	0.025	V	399-3174-1-ND	4.00	3.48	3.04	399-3174-2-ND	1,000	1360.00	T520V157M006ASE025
	150	±20	95	10.0	0.012	V	399-3386-1-ND	4.25	3.70	3.23	399-3386-2-ND	1,000	1445.00	T520V157M006ASE012
	150	±20	95	10.0	0.009	V	399-3385-1-ND	4.50	3.92	3.42	399-3385-2-ND	1,000	1530.00	T520V157M006ASE009
	220	±20	139	10.0	0.040	V	399-3175-1-ND	4.50	3.92	3.42	399-3175-2-ND	1,000	1530.00	T520V227M006ASE040
	220	±20	139	10.0	0.025	V	399-3176-1-ND	4.75	4.14	3.61	399-3176-2-ND	1,000	1615.00	T520V227M006ASE025
	220	±20	139	10.0	0.012	V	399-3390-1-ND	5.00	4.35	3.80	—	—	—	T520V227M006ASE012
	330	±20	208	10.0	0.045	D	399-1762-1-ND	1.85	1.61	1.41	—	—	—	T520D337M006ASE045
	330	±20	208	10.0	0.040	V	399-3355-1-ND	4.50	3.92	3.42	—	—	—	T520V337M006ASE040
	330	±20	208	10.0	0.025	V	399-3356-1-ND	4.75	4.14	3.61	399-3356-2-ND	1,000	1615.00	T520V337M006ASE025
	470	±20	296	10.0	0.040	X	399-1764-1-ND	12.25	10.66	9.31	399-1764-2-ND	500	2229.50	T520X477M006ASE040

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV	Cap.	Cap.	DC Leakage	DF % @ +25°C	ESR Ω @ +25°C	Size	Digi-Key	Cut Tape Price Each			Digi-Key	Tape and Reel		Kemet
(DC)	(µF)	Tol. (%)	µA @ +25°C Max.	120Hz Max.	100KHz Max.	Code	Part No.	1	10	100	Part No.	Size	Pricing	Part No.
6.3	470	±20	296	10.0	0.035	X	399-1765-1-ND	12.50	10.88	9.50	—	—	—	T520X477M006ASE035
8	33	±20	27	8.0	0.070	B	399-3256-1-ND	1.10	.96	.84	399-3256-2-ND	2,000	374.00/M	T520B336M008ASE070
	150	±20	120	10.0	0.055	D	399-3259-1-ND	3.50	3.05	2.66	399-3259-2-ND	500	637.00	T520D157M008ASE055
	150	±20	120	10.0	0.040	D	399-3258-1-ND	3.75	3.27	2.85	399-3258-2-ND	500	682.50	T520D157M008ASE040
	150	±20	120	10.0	0.025	D	399-3257-1-ND	4.00	3.48	3.04	399-3257-2-ND	500	728.00	T520D157M008ASE025
10	33	±20	33	8.0	0.070	B	399-3178-1-ND	1.10	.96	.84	—	—	—	T520B336M010ASE070
	33	±20	33	8.0	0.040	B	399-3329-1-ND	1.30	1.14	.99	—	—	—	T520B336M010ASE040
	68	±20	68	10.0	0.060	V	399-1766-1-ND	3.75	3.27	2.85	399-1766-2-ND	1,000	1275.00	T520V686M010ASE060
	68	±20	68	10.0	0.045	V	399-3330-1-ND	4.00	3.48	3.04	—	—	—	T520V686M010ASE045
	100	±20	100	10.0	0.080	D	399-1767-1-ND	1.85	1.61	1.41	—	—	—	T520D107M010ASE080
	100	±20	100	10.0	0.050	V	399-3179-1-ND	4.25	3.70	3.23	399-3179-2-ND	1,000	1445.00	T520V107M010ASE050
	100	±20	100	10.0	0.045	V	399-3335-1-ND	4.25	3.70	3.23	—	—	—	T520V107M010ASE045
	100	±20	100	10.0	0.025	V	399-3180-1-ND	4.50	3.92	3.42	399-3180-2-ND	1,000	1530.00	T520V107M010ASE025
	150	±20	150	10.0	0.055	D	399-1769-1-ND	1.85	1.61	1.41	399-1769-2-ND	500	336.50	T520D157M010ASE055
	220	±20	220	10.0	0.040	D	399-3181-1-ND	2.15	1.88	1.64	399-3181-2-ND	500	391.30	T520D227M010ASE040
	220	±20	220	10.0	0.025	D	399-3260-1-ND	2.40	2.09	1.83	399-3260-2-ND	500	437.00	T520D227M010ASE025
	220	±20	220	10.0	0.018	D	399-3182-1-ND	2.40	2.09	1.83	399-3182-2-ND	500	437.00	T520D227M010ASE018
	330	±20	330	10.0	0.040	X	399-1771-1-ND	12.25	10.66	9.31	399-1771-2-ND	500	2229.50	T520X337M010ASE040
	330	±20	330	10.0	0.025	X	399-3183-1-ND	12.50	10.88	9.50	399-3183-2-ND	500	2275.00	T520X337M010ASE025
16	33	±20	53	10.0	0.060	V	399-3184-1-ND	4.50	3.92	3.42	—	—	—	T520V336M016ASE060
	47	±20	75	10.0	0.035	D	399-3468-1-ND	3.50	3.05	2.66	399-3468-2-ND	500	637.00	T520D476M016ATE035
	47	±20	75	10.0	0.070	D	399-3102-1-ND	3.25	2.83	2.47	399-3102-2-ND	500	591.50	T520D476M016ASE070
	47	±20	76	10.0	0.070	V	399-3331-1-ND	4.50	3.92	3.42	—	—	—	T520V476M016ASE070
25	15	±20	38	10.0	0.060	D	399-3376-1-ND	3.50	3.05	2.66	—	—	—	T520D156M025ASE060
T520 Series — KO-CAP Polymer Tantalum — RoHS Compliant														
2	470	±20	94	10.0	0.040	V	399-4107-1-ND	4.50	3.92	3.42	399-4107-2-ND	1,000	1530.00	T520V477M002ATE040
2.5	100	±20	25	8.0	0.070	B	399-4011-1-ND	1.10	.96	.84	399-4011-2-ND	2,000	374.00/M	T520B107M2R5ATE070
	100	±20	25	8.0	0.040	B	399-4010-1-ND	1.30	1.14	.99	399-4010-2-ND	2,000	442.00/M	T520B107M2R5ATE040
	220	±20	55	8.0	0.070	B	399-4016-1-ND	1.25	1.09	.95	399-4016-2-ND	2,000	425.00/M	T520B227M2R5ATE070
	220	±20	55	10.0	0.045	V	399-4093-1-ND	3.50	3.05	2.66	399-4093-2-ND	1,000	1190.00	T520V227M2R5ATE045
	220	±20	55	10.0	0.025	V	399-4092-1-ND	3.75	3.27	2.85	399-4092-2-ND	1,000	1275.00	T520V227M2R5ATE025
	220	±20	55	10.0	0.015	V	399-4091-1-ND	4.00	3.48	3.04	399-4091-2-ND	1,000	1360.00	T520V227M2R5ATE015
	220	±20	55	10.0	0.012	V	399-4090-1-ND	4.00	3.48	3.04	399-4090-2-ND	1,000	1360.00	T520V227M2R5ATE012
	220	±20	55	10.0	0.009	V	399-4089-1-ND	4.25	3.70	3.23	399-4089-2-ND	1,000	1445.00	T520V227M2R5ATE009
	330	±20	83	10.0	0.025	V	399-4105-1-ND	4.50	3.92	3.42	399-4105-2-ND	1,000	1530.00	T520V337M2R5ATE025
	330	±20	83	10.0	0.015	V	399-4104-1-ND	4.75	4.14	3.61	399-4104-2-ND	1,000	1615.00	T520V337M2R5ATE015
	330	±20	99	10.0	0.009	V	399-4103-1-ND	5.00	4.35	3.80	399-4103-2-ND	1,000	1700.00	T520V337M2R5ATE009
	470	±20	118	10.0	0.009	D	399-4062-1-ND	5.00	4.35	3.80	399-4062-2-ND	500	910.00	T520D477M2R5ATE009
	470	±20	118	10.0	0.009	V	399-4108-1-ND	5.00	4.35	3.80	399-4108-2-ND	1,000	1700.00	T520V477M2R5ATE009
	470	±20	118	10.0	0.015	V	399-4110-1-ND	4.50	3.92	3.42	399-4110-2-ND	1,000	1530.00	T520V477M2R5ATE015
	470	±20	118	10.0	0.012	V	399-4109-1-ND	4.75	4.14	3.61	399-4109-2-ND	1,000	1615.00	T520V477M2R5ATE012
	680	±20	170	10.0	0.040	D	399-4066-1-ND	4.50	3.92	3.42	399-4066-2-ND	500	819.00	T520D687M2R5ATE040
	680	±20	170	10.0	0.015	D	399-4065-1-ND	4.75	4.14	3.61	399-4065-2-ND	500	864.50	T520D687M2R5ATE015
3	100	±20	30	8.0	0.070	B	399-4005-1-ND	1.10	.96	.84	399-4005-2-ND	2,000	374.00/M	T520B107M003ATE070
	100	±20	30	8.0	0.040	B	399-4004-1-ND	1.30	1.14	.99	399-4004-2-ND	2,000	442.00/M	T520B107M003ATE040
	150	±20	45	8.0	0.070	B	399-4013-1-ND	1.25	1.09	.95	399-4013-2-ND	2,000	425.00/M	T520B157M003ATE070
	150	±20	45	8.0	0.040	B	399-4012-1-ND	1.45	1.27	1.11	399-4012-2-ND	2,000	493.00/M	T520B157M003ATE040
	330	±20	99	10.0	0.025	V	399-4096-1-ND	4.50	3.92	3.42	399-4096-2-ND	1,000	1530.00	T520V337M003ATE025
	330	±20	99	10.0	0.015	V	399-4095-1-ND	4.75	4.14	3.61	399-4095-2-ND	1,000	1615.00	T520V337M003ATE015
	680	±20	204	10.0	0.040	D	399-4064-1-ND	4.50	3.92	3.42	399-4064-2-ND	500	819.00	T520D687M003ATE040
	680	±20	204	10.0	0.015	D	399-4063-1-ND	4.75	4.14	3.61	399-4063-2-ND	500	864.50	T520D687M003ATE015
	1000	±20	300	10.0	0.030	X	399-4114-1-ND	9.00	7.83	6.84	399-4114-2-ND	500	1638.00	T520X108M003ATE030
	1000	±20	300	10.0	0.015	X	399-4113-1-ND	9.25	8.05	7.03	399-4113-2-ND	500	1683.50	T520X108M003ATE015
4	15	±20	6	8.0	0.100	T	399-3245-1-ND	1.25	1.09	.95	399-3245-2-ND	2,500	425.00/M	T520T156M004ATE100
	47	±20	19	8.0	0.070	T	399-3380-1-ND	1.35	1.18	1.03	399-3380-2-ND	2,500	459.00/M	T520T476M004ATE070
	68	±20	27	8.0	0.070	B	399-4026-1-ND	1.10	.96	.84	399-4026-2-ND	2,000	374.00/M	T520B686M004ATE070
	68	±20	27	8.0	0.040	B	399-4025-1-ND	1.30	1.14	.99	399-4025-2-ND	2,000	442.00/M	T520B686M004ATE040
	100	±20	40	8.0	0.070	B	399-4007-1-ND	1.10	.96	.84	399-4007-2-ND	2,000	374.00/M	T520B107M004ATE070
	100	±20	40	8.0	0.040	B	399-4006-1-ND	1.30	1.14	.99	399-4006-2-ND	2,000	442.00/M	T520B107M004ATE040
	150	±20	60	8.0	0.040	B	399-4014-1-ND	1.45	1.27	1.11	399-4014-2-ND	2,000	493.00/M	T520B157M004ATE040
	150	±20	60	8.0	0.070	B	399-4015-1-ND	1.25	1.09	.95	399-4015-2-ND	2,000	425.00/M	T520B157M004ATE070
	150	±20	60	10.0	0.025	V	399-4075-1-ND	3.75	3.27	2.85	399-4075-2-ND	1,000	1275.00	T520V157M004ATE025
	150	±20	60	10.0	0.012	V	399-4073-1-ND	4.00	3.48	3.04	399-4073-2-ND	1,000	1360.00	T520V157M004ATE012
	150	±20	60	10.0	0.009	V	399-4072-1-ND	4.25	3.70	3.23	399-4072-2-ND	1,000	1445.00	T520V157M004ATE009
	150	±20	60	10.0	0.015	V	399-4074-1-ND	4.00	3.48	3.04	399-4074-2-ND	1,000	1360.00	T520V157M004ATE015
	220	±20	88	10.0	0.065	D	399-4041-1-ND	1.85	1.61	1.41	399-4041-2-ND	500	336.50	T520D227M004ATE065
	220	±20	88	10.0	0.045	V	399-4084-1-ND	3.75	3.27	2.85	399-4084-2-ND	1,000	1275.00	T520V227M004ATE045
	220	±20	88	10.0	0.025	V	399-4083-1-ND	4.00	3.48	3.04	399-4083-2-ND	1,000	1360.00	T520V227M004ATE025
	220	±20	88	10.0	0.012	V	399-4082-1-ND	4.25	3.70	3.23	399-4082-2-ND	1,000	1445.00	T520V227M004ATE012
	220	±20	88	10.0	0.009	V	399-4081-1-ND	4.50	3.92	3.42	399-4081-2-ND	1,000	1530.00	T520V227M004ATE009
	330	±20	132	10.0	0.045	D	399-4051-1-ND	1.85	1.61	1.41	399-4051-2-ND	500	336.50	T520D337M004ATE045
	330	±20	132	10.0	0.040	D	399-4050-1-ND	2.10	1.83	1.60	399-4050-2-ND	500	382.00	T520D337M004ATE040
	330	±20	132	10.0	0.015	D	399-4049-1-ND	2.35	2.05	1.79	399-4049-2-ND	500	427.50	T520D337M004ATE015
	330	±20	132	10.0	0.009	D	399-4048-1-ND	2.60	2.27	1.98	399-4048-2-ND	500	473.00	T520D337M004ATE009
	330	±20	132	10.0	0.040	V	399-4100-1-ND	3.75	3.27	2.85	399-4100-2-ND	1,000	1275.00	T520V337M004ATE040
	330	±20	132	10.0	0.025	V	399-4099-1-ND	4.00	3.48	3.04	399-4099-2-ND	1,000	1360.00	T520V337M004ATE025
	330	±20	132	10.0	0.012	V	399-4098-1-ND	4.25	3.70	3.23	399-4098-2-ND	1,000	1445.00	T520V337M004ATE012
	330	±20	132	10.0	0.009	V	399-4097-1-ND	4.50	3.92	3.42	399-4097-2-ND	1,000	1530.00	T520V337M004ATE009
	470	±20	188	10.0	0.040	D	399-4061-1-ND	2.15	1.88	1.64	399-4061-2-ND	500	391.50	T520D477M004ATE040
	470	±20	188	10.0	0.025	D	399-4060-1-ND	2.40	2.09	1.83	399-4060-2-ND	500	437.00	T520D477M004ATE025
	470	±20	188	10.0	0.018	D	399-4059-1-ND	2.40	2.09	1.83	399-4059-2-ND	500	437.00	T520D477M004ATE018
	470	±20	188	10.0	0.015	D	399-4058-1-ND	2.65	2.31	2.02	399-4058-2-ND	500	482.50	T520D477M004ATE015
	470	±20	188	10.0	0.012	D	399-4057-1-ND	2.65	2.31	2.02	399-4057-2-ND	500	482.50	T520D477M004ATE012
	680	±20	272	10.0	0.035	X	399-4120-1-ND	9.00	7.83	6.84	399-4120-2-ND	500	1638.00	T520X687M004ATE035
	680	±20	272	10.0	0.015	X	399-4119-1-ND	9.25	8.05	7.03	399-4119-2-ND	500	1683.50	T520X687M004ATE015
6.3	15	±20	9.5	8.0	0.100	T	399-3254-1-ND	1.25	1.09	.95	399-3254-2-ND	2,500	425.00/M	T520T156M006ATE100
	33	±20	20.8	8.0	0.070	T	399-3354-1-ND	1.35	1.18	1.03	399-3354-2-ND	2,500	459.00/M	T520T336M006ATE070
	33	±20	21	8.0	0.070	B	399-4018-1-ND	1.10	.96	.84	399-4018-2-ND	2,000	374.00/M	T520B336M006ATE070
	33	±20	21	8.0	0.040	B	399-4017-1-ND	1.30	1.14	.99	399-4017-2-ND	2,000	442.00/M	T520B336M006ATE040

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ +25°C Max.	DF % @ +25°C 120Hz Max.	ESR Ω @ +25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Kemet Part No.
								1	10	100		Size	Pricing	
6.3	47	±20	30	8.0	0.070	B	399-4024-1-ND	1.10	.96	.84	399-4024-2-ND	2,000	374.00/M	T520B476M006ATE070
	47	±20	30	8.0	0.070	T	399-3470-1-ND	1.35	1.18	1.03	399-3470-2-ND	2,500	459.00/M	T520T476M006ATE070
	47	±20	30	8.0	0.040	B	399-4023-1-ND	1.30	1.14	.99	399-4023-2-ND	2,000	442.00/M	T520B476M006ATE040
	68	±20	43	8.0	0.070	B	399-4028-1-ND	1.10	.96	.84	399-4028-2-ND	2,000	374.00/M	T520B686M006ATE070
	68	±20	43	8.0	0.040	B	399-4027-1-ND	1.30	1.14	.99	399-4027-2-ND	2,000	442.00/M	T520B686M006ATE040
	100	±20	63	8.0	0.070	B	399-4009-1-ND	1.20	1.05	.92	399-4009-2-ND	2,000	408.00/M	T520B107M006ATE070
	100	±20	63	8.0	0.040	B	399-4008-1-ND	1.40	1.22	1.07	399-4008-2-ND	2,000	476.00/M	T520B107M006ATE040
	100	±20	63	10.0	0.012	V	399-4068-1-ND	4.00	3.48	3.04	399-4068-2-ND	1,000	1360.00	T520V107M006ATE012
	100	±20	63	10.0	0.009	V	399-4067-1-ND	4.25	3.70	3.23	399-4067-2-ND	1,000	1445.00	T520V107M006ATE009
	150	±20	95	10.0	0.055	D	399-4035-1-ND	1.85	1.61	1.41	399-4035-2-ND	500	336.50	T520D157M006ATE055
	150	±20	94.5	10.0	0.025	D	399-4034-1-ND	2.10	1.83	1.60	399-4034-2-ND	500	382.00	T520D157M006ATE025
	150	±20	95	10.0	0.015	D	399-4033-1-ND	2.10	1.83	1.60	399-4033-2-ND	500	382.00	T520D157M006ATE015
	150	±20	95	10.0	0.045	V	399-4080-1-ND	3.75	3.27	2.85	399-4080-2-ND	1,000	1275.00	T520V157M006ATE045
	150	±20	95	10.0	0.040	V	399-4079-1-ND	3.75	3.27	2.85	399-4079-2-ND	1,000	1275.00	T520V157M006ATE040
	150	±20	95	10.0	0.025	V	399-4078-1-ND	4.00	3.48	3.04	399-4078-2-ND	1,000	1360.00	T520V157M006ATE025
	150	±20	95	10.0	0.012	V	399-4077-1-ND	4.25	3.70	3.23	399-4077-2-ND	1,000	1445.00	T520V157M006ATE012
	150	±20	95	10.0	0.009	V	399-4076-1-ND	4.50	3.92	3.42	399-4076-2-ND	1,000	1530.00	T520V157M006ATE009
	220	±20	139	10.0	0.050	D	399-4044-1-ND	1.85	1.61	1.41	399-4044-2-ND	500	336.50	T520D227M006ATE050
	220	±20	139	10.0	0.040	D	399-4043-1-ND	2.10	1.83	1.60	399-4043-2-ND	500	382.00	T520D227M006ATE040
	220	±20	139	10.0	0.009	D	399-4042-1-ND	2.60	2.27	1.98	399-4042-2-ND	500	473.00	T520D227M006ATE009
	220	±20	139	10.0	0.040	V	399-4088-1-ND	4.50	3.92	3.42	399-4088-2-ND	1,000	1530.00	T520V227M006ATE040
	220	±20	139	10.0	0.025	V	399-4087-1-ND	4.75	4.14	3.61	399-4087-2-ND	1,000	1615.00	T520V227M006ATE025
	220	±20	139	10.0	0.012	V	399-4086-1-ND	5.00	4.35	3.80	399-4086-2-ND	1,000	1700.00	T520V227M006ATE012
	220	±20	139	10.0	0.009	V	399-4085-1-ND	5.25	4.57	3.99	399-4085-2-ND	1,000	1785.00	T520V227M006ATE009
	330	±20	208	10.0	0.045	D	399-4055-1-ND	1.85	1.61	1.41	399-4055-2-ND	500	336.50	T520D337M006ATE045
	330	±20	208	10.0	0.040	D	399-4054-1-ND	2.10	1.83	1.60	399-4054-2-ND	500	382.00	T520D337M006ATE040
	330	±20	208	10.0	0.025	D	399-4053-1-ND	2.10	1.83	1.60	399-4053-2-ND	500	382.00	T520D337M006ATE025
	330	±20	208	10.0	0.015	D	399-4052-1-ND	2.35	2.05	1.79	399-4052-2-ND	500	427.50	T520D337M006ATE015
	330	±20	208	10.0	0.040	V	399-4102-1-ND	4.50	3.92	3.42	399-4102-2-ND	1,000	1530.00	T520V337M006ATE040
	330	±20	208	10.0	0.025	V	399-4101-1-ND	4.75	4.14	3.61	399-4101-2-ND	1,000	1615.00	T520V337M006ATE025
	470	±20	296	10.0	0.040	X	399-4118-1-ND	12.25	10.66	9.31	399-4118-2-ND	500	2229.50	T520X477M006ATE040
	470	±20	296	10.0	0.035	X	399-4117-1-ND	12.50	10.88	9.50	399-4117-2-ND	500	2275.00	T520X477M006ATE035
8	33	±20	26	8.0	0.040	B	399-4019-1-ND	1.30	1.14	.99	399-4019-2-ND	2,000	442.00/M	T520B336M008ATE040
	33	±20	27	8.0	0.070	B	399-4020-1-ND	1.10	.96	.84	399-4020-2-ND	2,000	374.00/M	T520B336M008ATE070
	150	±20	120	10.0	0.055	D	399-4038-1-ND	3.50	3.05	2.66	399-4038-2-ND	500	637.00	T520D157M008ATE055
	150	±20	120	10.0	0.040	D	399-4037-1-ND	3.75	3.27	2.85	399-4037-2-ND	500	682.50	T520D157M008ATE040
	150	±20	120	10.0	0.025	D	399-4036-1-ND	4.00	3.48	3.04	399-4036-2-ND	500	728.00	T520D157M008ATE025
10	33	±20	33	8.0	0.070	B	399-4022-1-ND	1.10	.96	.84	399-4022-2-ND	2,000	374.00/M	T520B336M010ATE070
	33	±20	33	8.0	0.040	B	399-4021-1-ND	1.30	1.14	.99	399-4021-2-ND	2,000	442.00/M	T520B336M010ATE040
	68	±20	68	10.0	0.060	V	399-4112-1-ND	3.75	3.27	2.85	399-4112-2-ND	1,000	1275.00	T520V686M010ATE060
	68	±20	68	10.0	0.045	V	399-4111-1-ND	4.00	3.48	3.04	399-4111-2-ND	1,000	1360.00	T520V686M010ATE045
	100	±20	100	10.0	0.080	D	399-4030-1-ND	1.85	1.61	1.41	399-4030-2-ND	500	336.50	T520D107M010ATE080
	100	±20	100	10.0	0.055	D	399-4029-1-ND	2.10	1.83	1.60	399-4029-2-ND	500	382.00	T520D107M010ATE055
	100	±20	100	10.0	0.050	V	399-4071-1-ND	4.25	3.70	3.23	399-4071-2-ND	1,000	1445.00	T520V107M010ATE050
	100	±20	100	10.0	0.045	V	399-4070-1-ND	4.25	3.70	3.23	399-4070-2-ND	1,000	1445.00	T520V107M010ATE045
	100	±20	100	10.0	0.025	V	399-4069-1-ND	4.50	3.92	3.42	399-4069-2-ND	1,000	1530.00	T520V107M010ATE025
	150	±20	150	10.0	0.055	D	399-4040-1-ND	1.85	1.61	1.41	399-4040-2-ND	500	336.50	T520D157M010ATE055
	150	±20	150	10.0	0.040	D	399-4039-1-ND	2.10	1.83	1.60	399-4039-2-ND	500	382.00	T520D157M010ATE040
	220	±20	220	10.0	0.040	D	399-4047-1-ND	2.15	1.88	1.64	399-4047-2-ND	500	391.50	T520D227M010ATE040
	220	±20	220	10.0	0.025	D	399-4046-1-ND	2.40	2.09	1.83	399-4046-2-ND	500	437.00	T520D227M010ATE025
	220	±20	220	10.0	0.018	D	399-4045-1-ND	2.40	2.09	1.83	399-4045-2-ND	500	437.00	T520D227M010ATE018
	330	±20	330	10.0	0.040	X	399-4116-1-ND	12.25	10.66	9.31	399-4116-2-ND	500	2229.50	T520X337M010ATE040
	330	±20	330	10.0	0.025	X	399-4115-1-ND	12.50	10.88	9.50	399-4115-2-ND	500	2275.00	T520X337M010ATE025
16	33	±20	53	10.0	0.060	V	399-4094-1-ND	4.50	3.92	3.42	399-4094-2-ND	1,000	1530.00	T520V336M016ATE060
	47	±20	75	10.0	0.070	D	399-4056-1-ND	3.25	2.83	2.47	399-4056-2-ND	500	591.50	T520D476M016ATE070
	47	±20	76	10.0	0.070	V	399-4106-1-ND	4.50	3.92	3.42	399-4106-2-ND	1,000	1530.00	T520V476M016ATE070
25	15	±20	37.5	10.0	0.080	D	399-4032-1-ND	3.25	2.83	2.47	399-4032-2-ND	500	591.50	T520D156M025ATE080
	15	±20	38	10.0	0.060	D	399-4031-1-ND	3.50	3.05	2.66	399-4031-2-ND	500	637.00	T520D156M025ATE060
T525 Series — KO-CAP Polymer Tantalum — RoHS Compliant														
2.5	330	±20	83	10.0	0.025	D	399-3261-1-ND	4.98	4.33	3.79	399-3261-2-ND	500	905.50	T525D337M2R5ATE025
	470	±20	118	10.0	0.025	D	399-3262-1-ND	4.98	4.33	3.79	399-3262-2-ND	500	905.50	T525D477M2R5ATE025
	680	±20	170	10.0	0.025	D	399-3263-1-ND	4.98	4.33	3.79	399-3263-2-ND	500	905.50	T525D687M2R5ATE025
3	100	±20	30	8.0	0.080	B	399-3264-1-ND	1.30	1.14	.99	399-3264-2-ND	2,000	442.00/M	T525B107M003ATE080
	150	±20	45	8.0	0.080	B	399-3265-1-ND	1.30	1.14	.99	399-3265-2-ND	2,000	442.00/M	T525B157M003ATE080
	330	±20	99	10.0	0.025	D	399-3266-1-ND	4.98	4.33	3.79	399-3266-2-ND	500	905.50	T525D337M003ATE025
	470	±20	141	10.0	0.025	D	399-3267-1-ND	4.98	4.33	3.79	399-3267-2-ND	500	905.50	T525D477M003ATE025
	680	±20	204	10.0	0.025	D	399-3268-1-ND	4.98	4.33	3.79	399-3268-2-ND	500	905.50	T525D687M003ATE025
4	68	±20	27.2	8.0	0.080	B	399-3269-1-ND	1.30	1.14	.99	399-3269-2-ND	2,000	442.00/M	T525B686M004ATE080
	100	±20	40	8.0	0.080	B	399-3270-1-ND	1.30	1.14	.99	399-3270-2-ND	2,000	442.00/M	T525B107M004ATE080
	220	±20	88	10.0	0.025	D	399-3271-1-ND	4.98	4.33	3.79	399-3271-2-ND	500	905.50	T525D227M004ATE025
	330	±20	132	10.0	0.025	D	399-3272-1-ND	4.98	4.33	3.79	399-3272-2-ND	500	905.50	T525D337M004ATE025
	470	±20	188	10.0	0.040	D	399-3151-1-ND	4.98	4.33	3.79	399-3151-2-ND	500	905.50	T525D477M004ATE040
	470	±20	188	10.0	0.025	D	399-3273-1-ND	5.23	4.55	3.98	399-3273-2-ND	500	951.00	T525D477M004ATE025
6.3	33	±20	20.8	8.0	0.080	B	399-3274-1-ND	1.30	1.14	.99	399-3274-2-ND	2,000	442.00/M	T525B336M006ATE080
	47	±20	29.6	8.0	0.080	B	399-3275-1-ND	1.30	1.14	.99	399-3275-2-ND	2,000	442.00/M	T525B476M006ATE080
	68	±20	42.8	8.0	0.080	B	399-3276-1-ND	1.30	1.14	.99	399-3276-2-ND	2,000	442.00/M	T525B686M006ATE080
	150	±20	95	10.0	0.025	D	399-3277-1-ND	5.23	4.55	3.98	399-3277-2-ND	500	951.00	T525D157M006ATE025
	220	±20	139	10.0	0.025	D	399-3278-1-ND	5.23	4.55	3.98	399-3278-2-ND	500	951.00	T525D227M006ATE025
	330	±20	208	10.0	0.040	D	399-3152-1-ND	4.98	4.33	3.79	399-3152-2-ND	500	905.50	T525D337M006ATE040
	330	±20	208	10.0	0.025	D	399-3279-1-ND	5.23	4.55	3.98	399-3279-2-ND	500	951.00	T525D337M006ATE025
10	33	±20	33	8.0	0.080	B	399-3280-1-ND	1.30	1.14	.99	399-3280-2-ND	2,000	442.00/M	T525B336M010ATE080
	100	±20	100	10.0	0.055	D	399-3153-1-ND	4.98	4.33	3.79	399-3153-2-ND	500	905.50	T525D107M010ATE055
	100	±20	100	10.0	0.025	D	399-3281-1-ND	5.23	4.55	3.98	399-3281-2-ND	500	951.00	T525D107M010ATE025
	150	±20	150	10.0	0.055	D	399-3154-1-ND	4.98	4.33	3.79	399-3154-2-ND	500	905.50	T525D157M010ATE055
	150	±20	150	10.0	0.025	D	399-3282-1-ND	5.23	4.55	3.98	399-3282-2-ND	500	951.00	T525D157M010ATE025
	220	±20	220	10.0	0.025	D	399-3283-1-ND	5.23	4.55	3.98	399-3283-2-ND	500	951.00	T525D227M010ATE025
16	47	±20	75.2	10.0	0.065	D	399-3155-1-ND	4.98	4.33	3.79	399-3155-2-ND	500	905.50	T525D476M016ATE065
	47	±20	76	10.0	0.035	D	399-3284-1-ND	5.23	4.55	3.98	399-3284-2-ND	500	951.00	T525D476M016ATE035
T530 Series — KO-MAT Polymer Tantalum														
2.5	470	±20	118	8.0	0.006	D	399-3399-1-ND	10.50	9.14	7.98	—	—	—	T530D447M2R5ASE006

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

(Continued)

WV (DC)	Cap. (µF)	Cap. Tol. (%)	DC Leakage µA @ +25°C Max.	DF % @ +25°C 120Hz Max.	ESR Ω @ +25°C 100KHz Max.	Size Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Kemet Part No.
2.5	680	±20	170	8.0	0.010	D	399-3332-1-ND	10.25	8.92	7.79	399-3332-2-ND	500	1865.50	T530D687M2R5ASE010
	1000	±20	250	8.0	0.006	X	399-3400-1-ND	12.25	10.66	9.31	399-3400-2-ND	500	2229.50	T530X108M2R5ASE006
3	680	±20	204	8.0	0.010	D	399-3333-1-ND	10.25	8.92	7.79	399-3333-2-ND	500	1865.50	T530D687M003ASE010
4	330	±20	132	8.0	0.006	D	399-3398-1-ND	10.50	9.14	7.98	399-3398-2-ND	500	1911.00	T530D337M004ASE006
	470	±20	188	8.0	0.010	D	399-3285-1-ND	10.25	8.92	7.79	—	—	—	T530D477M004ASE010
6.3	220	±20	139	8.0	0.006	D	399-3397-1-ND	10.50	9.14	7.98	399-3397-2-ND	500	1911.00	T530D227M006ASE006
	330	±20	208	8.0	0.010	D	399-3286-1-ND	10.00	8.70	7.60	399-3286-2-ND	500	1820.00	T530D337M006ASE010
10	150	±20	150	8.0	0.006	D	399-3396-1-ND	10.50	9.14	7.98	399-3396-2-ND	500	1911.00	T530D157M010ASE006
	220	±20	220	8.0	0.010	D	399-3358-1-ND	10.00	8.70	7.60	—	—	—	T530D227M010ASE010
	330	±20	330	8.0	0.010	X	399-3065-1-ND	11.75	10.23	8.93	399-3065-2-ND	500	2138.50	T530X337M010ASE010
	330	±20	330	8.0	0.006	X	399-3401-1-ND	12.25	10.66	9.31	399-3401-2-ND	500	2229.50	T530X337M010ASE006
T530 Series — KO-MAT Polymer Tantalum — RoHS Compliant														
2.5	470	±20	118	8.0	0.006	D	399-4127-1-ND	10.50	9.14	7.98	399-4127-2-ND	500	1911.00	T530D447M2R5ATE006
	560	±20	140	8.0	0.005	D	399-4128-1-ND	11.00	9.57	8.36	399-4128-2-ND	500	2002.00	T530D567M2R5ATE005
	680	±20	170	8.0	0.010	D	399-4130-1-ND	10.25	8.92	7.79	399-4130-2-ND	500	1865.50	T530D687M2R5ATE010
	680	±20	170	8.0	0.006	Y	399-3471-1-ND	11.00	9.57	8.36	399-3471-2-ND	500	2002.00	T530Y687M2R5ATE006
	1000	±20	250	8.0	0.006	X	399-4132-1-ND	12.25	10.66	9.31	399-4132-2-ND	500	2229.50	T530X108M2R5ATE006
3	680	±20	204	8.0	0.010	D	399-4129-1-ND	10.25	8.92	7.79	399-4129-2-ND	500	1865.50	T530D687M003ATE010
	1000	±20	300	8.0	0.010	X	399-4131-1-ND	11.75	10.23	8.93	399-4131-2-ND	500	2138.50	T530X108M003ATE010
	1500	±20	450	8.0	0.008	X	399-4133-1-ND	13.00	11.31	9.88	399-4133-2-ND	500	2366.00	T530X158M003ATE008
4	330	±20	132	8.0	0.006	D	399-4124-1-ND	10.50	9.14	7.98	399-4124-2-ND	500	1911.00	T530D337M004ATE006
	470	±20	188	8.0	0.010	D	399-4126-1-ND	10.25	8.92	7.79	399-4126-2-ND	500	1865.50	T530D477M004ATE010
	680	±20	272	8.0	0.010	X	399-4139-1-ND	11.75	10.23	8.93	399-4139-2-ND	500	2138.50	T530X687M004ATE010
	680	±20	272	8.0	0.006	X	399-4138-1-ND	12.25	10.66	9.31	399-4138-2-ND	500	2229.50	T530X687M004ATE006
6.3	220	±20	139	8.0	0.006	D	399-4122-1-ND	10.50	9.14	7.98	399-4122-2-ND	500	1911.00	T530D227M006ATE006
	330	±20	208	8.0	0.010	D	399-4125-1-ND	10.00	8.70	7.60	399-4125-2-ND	500	1820.00	T530D337M006ATE010
	330	±20	208	8.0	0.006	Y	399-3472-1-ND	11.00	9.57	8.36	399-3472-2-ND	500	2002.00	T530Y337M006ATE006
	470	±20	296	8.0	0.010	X	399-4137-1-ND	11.75	10.23	8.93	399-4137-2-ND	500	2138.50	T530X477M006ATE010
	470	±20	297	8.0	0.006	X	399-4136-1-ND	12.25	10.66	9.31	399-4136-2-ND	500	2229.50	T530X477M006ATE006
10	150	±20	150	8.0	0.006	D	399-4121-1-ND	10.50	9.14	7.98	399-4121-2-ND	500	1911.00	T530D157M010ATE006
	220	±20	220	8.0	0.010	D	399-4123-1-ND	10.00	8.70	7.60	399-4123-2-ND	500	1820.00	T530D227M010ATE010
	330	±20	330	8.0	0.010	X	399-4135-1-ND	11.75	10.23	8.93	399-4135-2-ND	500	2138.50	T530X337M010ATE010
	330	±20	330	8.0	0.006	X	399-4134-1-ND	12.25	10.66	9.31	399-4134-2-ND	500	2229.50	T530X337M010ATE006

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

A700 Series AO-CAP Aluminum Organic Capacitors

KEMET's AO-CAP, designated the A700 Series, has been targeted for power management applications. The structure of the AO-CAP uses aluminum as the anode material, aluminum oxide as the dielectric, and a conductive organic polymer for its counter-electrode material. The AO-CAP offers many advantages: • Extremely low ESR • High capacitance retention for superior performance at high operating frequencies • No voltage derating up to 125°C • Robust to the surface-mount process • No dry-out-related failure mechanism

The A700 Series has a molded case and wraparound terminations. This provides strong protection against cracks (flex) making it an ideal alternative to high-capacitance ceramics, and also offers true surface-mountable solutions to the existing aluminum organic capacitors found in the industry. The high-frequency performance of the AO-CAP can reduce component counts, which allows the designer to save board space and offers a more cost-effective solution.

The AO-CAP has excellent surge current performance and long-term reliability. There is no recommended derating of application voltage to reduce failure rate. **Operating Temperature:** -55°C ~ 125°C. The approximate capacitance shift over the temperature range for -55°C is -15%, and for 125°C is +15%. **Capacitance Tolerance:** ±20%

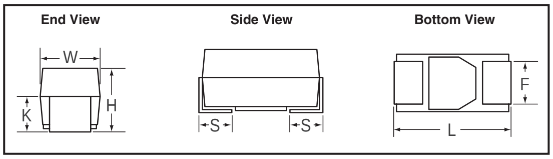

Case Size Kemet	Case Size EIA	L	W	H	K Min.	F ±0.1	S ±0.2
V	7343-20	7.3 ± 0.3	4.3 ± 0.3	1.9 ± 0.1	1.1	2.4	1.3
D	7343-31	7.3 ± 0.3	4.3 ± 0.3	2.8 ± 0.3	1.3	2.4	1.3
X	7343-43	7.3 ± 0.3	4.3 ± 0.3	4.0 ± 0.3	2.1	2.4	1.3

WV (DC)	Cap (µF)	Size Code	DC Leakage µA @ +25°C Maximum	DF % @ +25°C 120Hz Maximum	ESR Ω @ +25°C 100KHz Maximum	Ripple Current Arms 100KHz, at Max ESR 25°C ~ 105°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Kemet Part No.
2	100	V	12.0	6%	0.028	2.1	399-3030-1-ND	1.98	1.86	1.61	399-3030-2-ND	1,000	990.00	A700V107M002ATE028
	150	V	18.0	6%	0.028	2.1	399-3031-1-ND	1.98	1.86	1.61	399-3031-2-ND	1,000	990.00	A700V157M002ATE028
	180	D	21.6	6%	0.018	2.9	399-3032-1-ND	2.98	2.80	2.43	399-3032-2-ND	500	745.00	A700D187M002ATE018
	220	D	26.4	6%	0.018	2.9	399-3033-1-ND	2.98	2.80	2.43	399-3033-2-ND	500	745.00	A700D227M002ATE018
	220	D	26.4	6%	0.015	3.2	399-3034-1-ND	3.18	2.99	2.59	399-3034-2-ND	500	795.00	A700D227M002ATE015
	220	D	26.4	6%	0.012	3.5	399-3035-1-ND	3.38	3.17	2.75	399-3035-2-ND	500	845.00	A700D227M002ATE012
	270	X	26.4	6%	0.015	3.2	399-3036-1-ND	4.00	3.75	3.25	399-3036-2-ND	500	1000.00	A700X277M002ATE015
	330	X	39.6	6%	0.015	3.3	399-3037-1-ND	4.00	3.75	3.25	399-3037-2-ND	500	1000.00	A700X337M002ATE015
	390	X	46.8	6%	0.015	3.3	399-3038-1-ND	4.00	3.75	3.25	399-3038-2-ND	500	1000.00	A700X397M002ATE015
	390	X	46.8	6%	0.010	4.1	399-3039-1-ND	4.20	3.94	3.42	399-3039-2-ND	500	1050.00	A700X397M002ATE010
	470	X	56.4	6%	0.015	4.5	399-3040-1-ND	4.00	3.75	3.25	399-3040-2-ND	500	1000.00	A700X477M002ATE015
2.5	82	V	12.3	6%	0.028	2.1	399-3041-1-ND	1.98	1.86	1.61	399-3041-2-ND	1,000	990.00	A700V826M2R5ATE028
	150	D	22.5	6%	0.018	2.9	399-3042-1-ND	2.98	2.80	2.43	399-3042-2-ND	500	745.00	A700D157M2R5ATE018
	220	X	33.0	6%	0.015	3.3	399-3043-1-ND	4.00	3.75	3.25	399-3043-2-ND	500	1000.00	A700X227M2R5ATE015
4	82	V	19.7	6%	0.028	2.1	399-3044-1-ND	1.98	1.86	1.61	399-3044-2-ND	1,000	990.00	A700V826M004ATE028
	120	D	28.8	6%	0.018	2.9	399-3045-1-ND	2.98	2.80	2.43	399-3045-2-ND	500	745.00	A700D127M004ATE018
	150	D	36.0	6%	0.018	2.9	399-3046-1-ND	2.98	2.80	2.43	399-3046-2-ND	500	745.00	A700D157M004ATE018
	180	X	43.2	6%	0.015	3.3	399-3047-1-ND	4.00	3.75	3.25	399-3047-2-ND	500	1000.00	A700X187M004ATE015
	220	X	52.8	6%	0.015	3.3	399-3048-1-ND	4.00	3.75	3.25	399-3048-2-ND	500	1000.00	A700X227M004ATE015
	270	X	64.8	6%	0.015	3.3	399-3049-1-ND	4.00	3.75	3.25	399-3049-2-ND	500	1000.00	A700X277M004ATE015
6.3	33	V	8.3	6%	0.028	2.1	399-3050-1-ND	1.98	1.86	1.61	399-3050-2-ND	1,000	990.00	A700V336M006ATE028
	47	V	11.8	6%	0.028	2.1	399-3051-1-ND	1.98	1.86	1.61	399-3051-2-ND	1,000	990.00	A700V476M006ATE028
	56	V	14.1	6%	0.028	2.1	399-3052-1-ND	1.98	1.86	1.61	399-3052-2-ND	1,000	990.00	A700V566M006ATE028
	68	V	17.1	6%	0.028	2.1	399-3053-1-ND	1.98	1.86	1.61	399-3053-2-ND	1,000	990.00	A700V686M006ATE028
	100	D	25.2	6%	0.018	2.9	399-3054-1-ND	2.98	2.80	2.43	399-3054-2-ND	500	745.00	A700D107M006ATE018
	150	X	37.8	6%	0.015	3.3	399-3055-1-ND	4.00	3.75	3.25	399-3055-2-ND	500	1000.00	A700X157M006ATE015
	180	X	43.2	6%	0.015	3.3	399-3056-1-ND	4.00	3.75	3.25	399-3056-2-ND	500	1000.00	A700X187M006ATE015
8	33	V	10.6	6%	0.028	2.1	399-3057-1-ND	1.98	1.86	1.61	399-3057-2-ND	1,000	990.00	A700V336M008ATE028
10	33	V	13.2	6%	0.028	2.1	399-3058-1-ND	1.98	1.86	1.61	399-3058-2-ND	1,000	990.00	A700V336M010ATE028

NOTE: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.

B45190E, B45192E, B45194E and B45196H Standard Series:
Construction: • Polar tantalum capacitors with solid electrolyte • Conventional TA-MnO_2 technology • Flame-retardant plastic case (UL94V-0)
Features: • High volumetric efficiency • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current and dissipation factor • Low self-inductance • Suitable for use without series resistor
Specifications: • Operating Temperature: -55 ~ 125°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1 55/125/56

B45196P Performance 150°C High Reliability Series:
Construction: • Solid Electrolyte • Conventional TA-MnO_2 technology • Flame-retardant plastic case (UL94V-0)
Features: • Outstanding reliability • High volumetric efficiency • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current, low dissipation factor • Low self-inductance • High resistance to shock and vibration • Very low failure rate • Operating temperature up to 150°C
Specifications: • Operating Temperature: -55°C ~ 150°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

B45197A Speed Power Low ESR Series:
Construction: • Solid Electrolyte • Conventional TA-MnO_2 technology • Flame-retardant plastic case (UL94V-0)
Features: • High volumetric efficiency • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current, low dissipation factor • Low self-inductance • High resistance to shock and vibration • Low ESR
Specifications: • Operating Temperature: -55°C ~ 125°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

TOPcap B760XX Polymer Ultra-Low ESR Series:
Construction: • Solid electrolyte • Tantalum polymer technology (cathode consists of a solid conductive polymer) • Flame-retardant plastic case (UL94V-0) • Tinned terminals
Features: • High volumetric efficiency • Ultra-low ESR • Excellent solderability • Stable temperature and frequency characteristics • High ESR stability during temperature rise • High permissible ripple current • Only low derating necessary • Low self-inductance • High resistance to shock and vibration • No failure-mode ignition in high-surge current applications
Specifications: • Operating Temperature: -55°C ~ 105°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

B45396R Multiple Anode Ultra-Low ESR Series:
Construction: • Solid electrolyte • Conventional TA-MnO_2 technology • Three parallel low-ESR tantalum capacitors in one case ("multiple anode") • Flame retardant plastic case (UL94V-0) • Tinned terminals
Features: • High volumetric efficiency • Ultra-low ESR, high ripple current • Excellent solderability • Stable temperature and frequency characteristics • Low leakage current, low dissipation factor • Low self inductance • High resistance to shock and vibration
Specifications: • Operating Temperature: -55°C ~ 125°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

B763XX Polymer Multiple Anode Ultra-Low ESR Series:
Construction: • Solid electrolyte • Tantalum polymer technology (cathode consists of a solid conductive polymer) • Three parallel low ESR tantalum capacitors in one case ("multiple anode") • Flame-retardant plastic case (UL94V-0) • Tinned terminals
Features: • High volumetric efficiency • Ultra-low ESR, high ripple current • Excellent solderability • Stable temperature and frequency characteristics • High ESR stability during temperature rise • High permissible ripple current • Only low derating necessary • Low dissipation factor • High resistance to shock and vibration
Specifications: • Operating Temperature: -55°C ~ 105°C • Service Life: >500,000 Hours • IEC Climactic Category: IEC 60068-1

Case Size	Dimensions (mm)			
	L	W	H	L_2 Typical
A	3.2	1.6	1.6	3.0
B	3.5	2.8	1.9	3.3
C	6.0	3.2	2.5	5.8
D	7.3	4.3	2.8	7.1
E	7.3	4.3	4.1	7.1
R	3.5	2.8	1.2	3.3
V	7.3	4.3	2.0	7.1
W	6.0	3.2	1.5	3.3
X	7.3	4.3	1.5	7.1

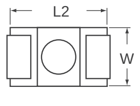

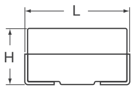

Rated Voltage (DC)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DC Leakage Current Max. (µA)	ESR Max. @ 100KHz 20°C (mΩ)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Epcos Part No.
							1	10	100		Size	Pricing	
High Capacitance - Low Profile Tantalum Capacitors													
4.0	10	20	A	0.5	4500	495-2174-1-ND	.20	1.74	15.20	495-2174-2-ND	2,000	68.00/M	B45196H0106M109
4.0	47	20	B	1.9	2300	495-2175-1-ND	.26	2.26	19.76	495-2175-2-ND	2,000	88.00/M	B45196H0476M209
4.0	68	20	B	2.7	1800	495-2176-1-ND	.33	2.83	24.70	495-2176-2-ND	2,000	111.00/M	B45196H0686M209
6.3	4.7	10	A	0.5	5500	495-2177-1-ND	.16	1.39	12.16	495-2177-2-ND	2,000	54.00/M	B45196H1475K109
6.3	6.8	10	A	0.5	4500	495-2178-1-ND	.17	1.44	12.54	495-2178-2-ND	2,000	68.00/M	B45196H1685K109
6.3	6.8	20	A	0.5	4500	495-2179-1-ND	.16	1.35	11.78	495-2179-2-ND	2,000	68.00/M	B45196H1685M109
6.3	10	10	A	0.6	4000	495-2180-1-ND	.17	1.44	12.54	495-2180-2-ND	2,000	71.00/M	B45196H1106K109
6.3	10	20	A	0.6	4000	495-2181-1-ND	.16	1.39	12.16	495-2181-2-ND	2,000	70.00/M	B45196H1106M109
6.3	22	10	A	1.4	3000	495-2182-1-ND	.23	2.00	17.48	495-2182-2-ND	2,000	94.00/M	B45196H1226K109
6.3	22	20	A	1.4	3000	495-2183-1-ND	.24	2.04	17.86	495-2183-2-ND	2,000	92.00/M	B45196H1226M109
6.3	22	10	B	1.4	2500	495-2184-1-ND	.24	2.04	17.86	495-2184-2-ND	2,000	94.00/M	B45196H1226K209
6.3	22	20	B	1.4	2500	495-2185-1-ND	.24	2.04	17.86	495-2185-2-ND	2,000	92.00/M	B45196H1226M209
6.3	33	10	B	2.1	2200	495-2186-1-ND	.26	2.22	19.38	495-2186-2-ND	2,000	104.00/M	B45196H1336K209
6.3	33	20	R	2.1	2500	495-2187-1-ND	.46	3.96	34.58	495-2187-2-ND	2,500	155.00/M	B45190E1336M209
6.3	33	20	B	2.1	2000	495-2188-1-ND	.25	2.18	19.00	495-2188-2-ND	2,000	102.00/M	B45196H1336M209
6.3	47	10	B	3.0	2000	495-2189-1-ND	.30	2.57	22.42	495-2189-2-ND	2,000	112.00/M	B45196H1476K209
6.3	47	20	B	3.0	2000	495-2190-1-ND	.29	2.48	21.66	495-2190-2-ND	2,000	109.00/M	B45196H1476M209
6.3	100	20	B	6.3	1600	495-2191-1-ND	.40	3.44	30.06	495-2191-2-ND	2,000	134.00/M	B45196H1107M209
6.3	100	20	C	6.3	1200	495-2192-1-ND	.51	4.44	38.76	495-2192-2-ND	750	162.75	B45196H1107M309
6.3	100	10	D	6.3	800	495-2193-1-ND	.53	4.57	39.90	495-2193-2-ND	750	161.25	B45196H1107K409
6.3	220	20	D	14	800	495-2194-1-ND	.89	7.75	67.72	495-2194-2-ND	750	221.25	B45196H1227M409
6.3	220	20	V	14	700	495-2195-1-ND	1.43	12.44	108.68	495-2195-2-ND	1,000	619.00	B45194E1227M409
10	3.3	20	A	0.5	5500	495-2196-1-ND	.16	1.35	11.78	495-2196-2-ND	2,000	61.00/M	B45196H2335M109
10	4.7	10	A	0.5	4500	495-2197-1-ND	.16	1.39	12.16	495-2197-2-ND	2,000	68.00/M	B45196H2475K109
10	4.7	20	A	0.5	4500	495-2198-1-ND	.16	1.35	11.78	495-2198-2-ND	2,000	68.00/M	B45196H2475M109
10	6.8	10	A	0.7	4000	495-2199-1-ND	.18	1.52	13.30	495-2199-2-ND	2,000	71.00/M	B45196H2685K109
10	10	10	A	1.0	3800	495-2200-1-ND	.18	1.57	13.68	495-2200-2-ND	2,000	78.00/M	B45196H2106K109
10	10	20	A	1.0	3800	495-2201-1-ND	.17	1.48	12.92	495-2201-2-ND	2,000	77.00/M	B45196H2106M109
10	10	10	B	1.0	3000	495-2202-1-ND	.21	1.78	15.58	495-2202-2-ND	2,000	80.00/M	B45196H2106K209
10	10	20	B	1.0	3000	495-2203-1-ND	.20	1.70	14.82	495-2203-2-ND	2,000	78.00/M	B45196H2106M209
10	15	20	A	1.5	3200	495-2204-1-ND	.21	1.83	15.96	495-2204-2-ND	2,000	83.00/M	B45196H2156M109
10	15	10	B	1.5	2500	495-2205-1-ND	.22	1.91	16.72	495-2205-2-ND	2,000	88.00/M	B45196H2156K209
10	15	20	B	1.5	2500	495-2206-1-ND	.23	2.00	17.48	495-2206-2-ND	2,000	87.00/M	B45196H2156M209
10	22	20	A	2.2	3200	495-2207-1-ND	.25	2.18	19.00	495-2207-2-ND	2,000	85.00/M	B45196H2226M109
10	22	10	B	2.2	2300	495-2208-1-ND	.26	2.26	19.76	495-2208-2-ND	2,000	95.00/M	B45196H2226K209
10	22	20	B	2.2	2300	495-2209-1-ND	.26	2.22	19.38	495-2209-2-ND	2,000	94.00/M	B45196H2226M209
10	22	10	C	2.2	1600	495-2210-1-ND	.32	2.78	24.32	495-2210-2-ND	750	94.50	B45196H2226K309
10	22	20	C	2.2	1600	495-2211-1-ND	.31	2.70	23.56	495-2211-2-ND	750	93.00	B45196H2226M309
10	33	20	B	3.3	2000	495-2212-1-ND	.29	2.48	21.66	495-2212-2-ND	2,000	109.00/M	B45196H2336M209
10	33	10	W	5.3	1400	495-2213-1-ND	.87	7.57	66.12	495-2213-2-ND	4,750	296.00/M	B45192E2336K306
10	33	10	C	3.0	1500	495-2214-1-ND	.34	2.96	25.84	495-2214-2-ND	750	109.50	B45196H2336K309
10	33	20	C	3.0	1500	495-2215-1-ND	.35	3.00	26.22	495-2215-2-ND	750	106.50	B45196H2336M309
10	47	10	B	4.7	1600	495-2216-1-ND	.41	3.57	31.16	495-2216-2-ND	2,000	139.00/M	B45196H2476K209
10	47	10	C	4.7	1400	495-2217-1-ND	.43	3.74	32.68	495-2217-2-ND	750	132.75	B45196H2476K309
10	47	20	C	4.7	1400	495-2218-1-ND	.44	3.83	33.44	495-2218-2-ND	750	129.75	B45196H2476M309
10	68	10	D	6.8	800	495-2219-1-ND	.56	4.87	42.56	495-2219-2-ND	750	161.25	B45196H2686K409
10	100	10	C	10	1200	495-2220-1-ND	.75	6.53	57.00	495-2220-2-ND	750	218.25	B45196H2107K309
10	100	20	C	10	1200	495-2221-1-ND	.63	5.44	47.50	495-2221-2-ND	750	213.00	B45196H2107M309
10	100	20	X	10	800	495-2222-1-ND	1.94	16.83	147.06	495-2222-2-ND	1,250	905.00	B45192E2107M409
10	100	10	D	10	800	495-2223-1-ND	.59	5.13	44.84	495-2223-2-ND	750	193.50	B45196H2107K409
10	100	20	D	10	800	495-2224-1-ND	.60	5.18	45.22	495-2224-2-ND	750	189.75	B45196H2107M409
10	150	20	D	15	800	495-2225-1-ND	.89	7.75	67.72	495-2225-2-ND	750	221.25	B45196H2157M409
10	220	20	D	22	800	495-2226-1-ND	1.10	9.57	83.60	495-2226-2-ND	750	316.50	B45196H2227M409
10	220	20	E	22	600	495-2227-1-ND	2.40	20.88	182.40	495-2227-2-ND	400	384.40	B45196H2227M509
16	2.2	10	A	0.5	6500	495-2228-1-ND	.16	1.39	12.16	495-2228-2-ND	2,000	63.00/M	B45196H3225K109
16	2.2	20	A	0.5	6500	495-2229-1-ND	.16	1.35	11.78	495-2229-2-ND	2,000	61.00/M	B45196H3225M109
16	3.3	10	A	0.5	5000	495-2230-1-ND	.16	1.39	12.16	495-2230-2-ND	2,000	68.00/M	B45196H3335K109
16	3.3	20	A	0.5	5000	495-2231-1-ND	.16	1.35	11.78	495-2231-2-ND	2,000	68.00/M	B45196H3335M109
16	4.7	10	A	0.8	4000	495-2232-1-ND	.19	1.61	14.06	495-2232-2-ND	2,000	71.00/M	B45196H3475K109
16	4.7	20	A	0.8	4000	495-2233-1-ND	.18	1.57	13.68	495-2233-2-ND	2,000	61.00/M	B45196H3475M109
16	6.8	10	A	1.1	3800	495-2234-1-ND	.21	1.78	15.58	495-2234-2-ND	2,000	78.00/M	B45196H3685K109
16	6.8	20	B	1.1	3000	495-2235-1-ND	.20	1.74	15.20	495-2235-2-ND	2,000	68.00/M	B45196H3685M209

(Continued)

Surface Mount Tantalum and Polymer Capacitors *(Cont.)*

Rated Voltage (DC)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DC Leakage Current Max. (µA)	ESR Max. @ 100KHz 20°C (mΩ)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Epcos Part No.
16	10	10	A	1.6	3000	495-2236-1-ND	.21	1.78	15.58	495-2236-2-ND	2,000	70.00/M	B45196H3106K109
16	10	20	A	1.6	3000	495-2237-1-ND	.21	1.78	15.58	495-2237-2-ND	2,000	92.00/M	B45196H3106M109
16	10	10	R	1.6	1500	495-2238-1-ND	.45	3.92	34.20	495-2238-2-ND	2,500	153.00/M	B45190E3106K209
16	10	10	B	1.6	2500	495-2239-1-ND	.24	2.04	17.86	495-2239-2-ND	2,000	88.00/M	B45196H3106K209
16	10	20	B	1.6	2500	495-2240-1-ND	.23	1.96	17.10	495-2240-2-ND	2,000	87.00/M	B45196H3106M209
16	15	20	B	2.4	2300	495-2241-1-ND	.24	2.09	18.24	495-2241-2-ND	2,000	94.00/M	B45196H3156M209
16	22	10	B	3.5	2600	495-2242-1-ND	.30	2.57	22.42	495-2242-2-ND	2,000	112.00/M	B45196H3226K209
16	22	20	B	3.5	2600	495-2243-1-ND	.30	2.61	22.80	495-2243-2-ND	2,000	109.00/M	B45196H3226M209
16	22	10	C	3.5	1500	495-2244-1-ND	.37	3.22	28.12	495-2244-2-ND	750	113.25	B45196H3226K309
16	22	20	C	3.5	1500	495-2245-1-ND	.39	3.35	29.26	495-2245-2-ND	750	111.75	B45196H3226M309
16	33	20	C	5.3	1400	495-2246-1-ND	.45	3.87	33.82	495-2246-2-ND	750	129.75	B45196H3336M309
16	47	10	C	7.5	1400	495-2247-1-ND	.59	5.13	44.84	495-2247-2-ND	750	161.25	B45196H3476K309
16	47	20	C	7.5	1400	495-2248-1-ND	.59	5.09	44.46	495-2248-2-ND	750	186.00	B45196H3476M309
16	47	20	V	7.5	700	495-2249-1-ND	1.30	11.27	98.42	495-2249-2-ND	1,000	566.00	B45194E3476M409
16	47	10	D	7.5	800	495-2250-1-ND	.49	4.22	36.86	495-2250-2-ND	750	161.25	B45196H3476K409
16	47	20	D	7.5	800	495-2251-1-ND	.54	4.70	41.04	495-2251-2-ND	750	158.25	B45196H3476M409
16	68	10	X	10.9	800	495-2252-1-ND	1.99	17.31	151.24	495-2252-2-ND	1,250	677.00/M	B45192E3686K409
16	68	10	D	11	800	495-2253-1-ND	.69	5.96	52.06	495-2253-2-ND	750	193.50	B45196H3686K409
16	68	20	D	11	800	495-2254-1-ND	.68	5.87	51.30	495-2254-2-ND	750	189.75	B45196H3686M409
16	100	10	D	16	800	495-2255-1-ND	.91	7.94	69.39	495-2255-2-ND	750	226.50	B45196H3107K409
16	100	20	D	16	800	495-2256-1-ND	.89	7.75	67.72	495-2256-2-ND	750	221.25	B45196H3107M409
20	2.2	20	A	0.5	6000	495-2257-1-ND	.18	1.57	13.68	495-2257-2-ND	2,000	61.00/M	B45196H4225M109
20	4.7	20	B	0.9	3000	495-2258-1-ND	.21	1.83	15.96	495-2258-2-ND	2,000	71.00/M	B45196H4475M209
20	10	20	B	2.0	2300	495-2259-1-ND	.31	2.65	23.18	495-2259-2-ND	2,000	104.00/M	B45196H4106M209
20	10	10	C	2.0	1600	495-2260-1-ND	.33	2.83	24.70	495-2260-2-ND	750	88.50	B45196H4106K309
20	10	20	C	2.0	1600	495-2261-1-ND	.35	3.05	26.60	495-2261-2-ND	750	94.50	B45196H4106M309
20	15	10	C	3.0	1500	495-2262-1-ND	.40	3.48	30.40	495-2262-2-ND	750	113.25	B45196H4156K309
20	22	20	C	4.4	1400	495-2263-1-ND	.44	3.83	33.44	495-2263-2-ND	750	120.00	B45196H4226M309
20	33	10	D	6.6	800	495-2264-1-ND	.57	4.96	43.32	495-2264-2-ND	750	169.50	B45196H4336K409
20	33	20	D	6.6	800	495-2265-1-ND	.56	4.87	42.56	495-2265-2-ND	750	166.50	B45196H4336M409
20	47	10	D	9.4	800	495-2266-1-ND	.62	5.35	46.74	495-2266-2-ND	750	196.50	B45196H4476K409
20	47	20	D	9.4	800	495-2267-1-ND	.61	5.31	46.36	495-2267-2-ND	750	193.50	B45196H4476M409
25	1.0	10	A	0.5	8000	495-2268-1-ND	.16	1.39	12.16	495-2268-2-ND	2,000	54.00/M	B45196H5105K109
25	1.0	20	A	0.5	8000	495-2269-1-ND	.19	1.65	14.44	495-2269-2-ND	2,000	65.00/M	B45196H5105M109
25	1.5	20	A	0.5	7000	495-2270-1-ND	.18	1.52	13.30	495-2270-2-ND	2,000	70.00/M	B45196H5155M109
25	2.2	20	A	0.6	7000	495-2271-1-ND	.22	1.87	16.34	495-2271-2-ND	2,000	83.00/M	B45196H5225M109
25	4.7	10	B	1.2	3200	495-2272-1-ND	.26	2.22	19.38	495-2272-2-ND	2,000	94.00/M	B45196H5475K209
25	10	20	C	2.5	1600	495-2273-1-ND	.36	3.09	26.98	495-2273-2-ND	750	96.75	B45196H5106M309
25	22	10	D	5.5	800	495-2274-1-ND	.58	5.05	44.08	495-2274-2-ND	750	158.25	B45196H5226K409
25	22	20	D	5.5	800	495-2275-1-ND	.58	5.05	44.08	495-2275-2-ND	750	158.25	B45196H5226M409
25	33	20	D	8.3	800	495-2276-1-ND	.87	7.53	65.74	495-2276-2-ND	2,800	328.00/M	B45196H5336M406
35	0.47	20	A	0.5	1100	495-2277-1-ND	.17	1.48	12.92	495-2277-2-ND	2,000	68.00/M	B45196H6474M109
35	0.68	10	A	0.5	8000	495-2278-1-ND	.19	1.65	14.44	495-2278-2-ND	2,000	75.00/M	B45196H6684K109
35	1.0	20	A	0.5	7000	495-2279-1-ND	.20	1.74	15.20	495-2279-2-ND	2,000	77.00/M	B45196H6105M109
35	2.2	10	B	0.8	4000	495-2280-1-ND	.24	2.09	18.24	495-2280-2-ND	2,000	82.00/M	B45196H6225K209
35	2.2	20	B	0.8	4000	495-2281-1-ND	.24	2.04	17.86	495-2281-2-ND	2,000	94.00/M	B45196H6225M209
35	4.7	10	C	1.6	2000	495-2282-1-ND	.37	3.18	27.74	495-2282-2-ND	750	99.75	B45196H6475K309
35	4.7	20	C	1.6	2000	495-2283-1-ND	.37	3.18	27.74	495-2283-2-ND	750	120.00	B45196H6475M309
35	10	10	V	3.5	1000	495-2284-1-ND	1.77	15.40	134.52	495-2284-2-ND	1,000	709.00	B45194E6106K409
35	10	20	C	3.5	1600	495-2285-1-ND	.54	4.70	41.04	495-2285-2-ND	750	147.75	B45196H6106M309
35	15	20	D	5.3	800	495-2286-1-ND	.67	5.79	50.54	495-2286-2-ND	750	198.00	B45196H6156M409
35	47	20	E	16	900	495-2287-1-ND	2.19	19.05	166.44	495-2287-2-ND	400	384.40	B45196H6476M509
50	10	20	E	5.0	800	495-2288-1-ND	2.88	25.01	218.50	495-2288-2-ND	400	418.80	B45196H7106M509
Performance - High Reliability Tantalum Capacitors													
6.3	47	10	C	3.0	800.0	495-1491-1-ND	.51	4.40	38.46	495-1491-2-ND	750	125.25	B45196P1476K309
10	4.7	10	A	0.5	2900.0	495-1492-1-ND	.27	2.34	20.48	495-1492-2-ND	2,000	83.00/M	B45196P2475K109
10	47	10	D	4.7	600.0	495-1493-1-ND	.78	6.79	59.36	495-1493-2-ND	750	193.50	B45196P2476K409
16	22	10	C	3.6	1000.0	495-1494-1-ND	.55	4.79	41.80	495-1494-2-ND	750	136.50	B45196P3226K309
16	47	10	D	7.5	600.0	495-1495-1-ND	.86	7.46	65.21	495-1495-2-ND	750	213.00	B45196P3476K409
5	0.33	10	A	0.5	11000	495-1497-1-ND	.26	2.30	20.06	495-1497-2-ND	2,000	82.00/M	B45196P6334K109
35	1.0	10	B	0.5	4400.0	495-1498-1-ND	.34	2.97	25.92	495-1498-2-ND	2,000	105.00/M	B45196P6105K209
35	2.2	10	C	0.8	2200.0	495-1499-1-ND	.59	5.17	45.14	495-1499-2-ND	750	147.75	B45196P6225K309
35	6.8	10	D	2.4	900.0	495-1500-1-ND	.94	8.18	71.48	495-1500-2-ND	750	233.25	B45196P6685K409
35	10	10	D	3.5	700.0	495-1501-1-ND	.94	8.18	71.48	495-1501-2-ND	750	233.25	B45196P6106K409
SpeedPower - Low ESR Tantalum Capacitors													
4.0	680	10	E	27.0	150.0	495-1502-1-ND	1.94	16.83	147.06	495-1502-2-ND	400	281.60	B45197A0687K509
4.0	1000	10	E	40.0	150.0	495-1503-1-ND	2.29	19.95	174.31	495-1503-2-ND	400	334.00	B45197A0108K509
6.3	22	10	C	1.4	375	495-1504-1-ND	.62	5.41	47.23	495-1504-2-ND	750	154.50	B45197A1226K309
6.3	33	10	C	2.1	350	495-1505-1-ND	.62	5.41	47.23	495-1505-2-ND	750	154.50	B45197A1336K309
6.3	47	10	C	3.0	325	495-1506-1-ND	.69	5.98	52.25	495-1506-2-ND	750	171.00	B45197A1476K309
6.3	68	10	C	4.3	400	495-1507-1-ND	.72	6.27	54.76	495-1507-2-ND	750	178.50	B45197A1686K309
6.3	68	10	D	4.3	175	495-1508-1-ND	.87	7.61	66.46	495-1508-2-ND	750	216.75	B45197A1686K409
6.3	100	10	C	6.3	150	495-1509-1-ND	.76	6.60	57.68	495-1509-2-ND	750	188.25	B45197A1107K309
6.3	100	10	D	6.3	125	495-1510-1-ND	.87	7.61	66.46	495-1510-2-ND	750	216.75	B45197A1107K409
6.3	150	10	D	9.5	100	495-1511-1-ND	.98	8.57	74.82	495-1511-2-ND	750	244.50	B45197A1157K409
6.3	150	10	E	9.5	100	495-1512-1-ND	1.64	14.26	124.56	495-1512-2-ND	400	216.80	B45197A1157K509
6.3	220	10	D	14	100	495-1513-1-ND	1.05	9.09	79.42	495-1513-2-ND	750	259.50	B45197A1227K409
6.3	220	10	E	14	100	495-1514-1-ND	1.64	14.26	124.56	495-1514-2-ND	400	216.80	B45197A1227K509
6.3	330	10	D	21	100	495-1515-1-ND	1.18	10.24	89.45	495-1515-2-ND	750	291.75	B45197A1337K409
6.3	330	10	E	21	100	495-1516-1-ND	1.77	15.36	134.18	495-1516-2-ND	400	233.60	B45197A1337K509
6.3	470	10	D	30	150	495-1517-1-ND	1.44	12.54	109.52	495-1517-2-ND	750	357.75	B45197A1477K409
6.3	470	10	E	30	100	495-1518-1-ND	1.83	15.93	139.19	495-1518-2-ND	400	242.40	B45197A1477K509
6.3	680	10	E	43	100	495-1519-1-ND	2.05	17.85	155.91	495-1519-2-ND	400	271.60	B45197A1687K509
10	10	10	C	1.0	400	495-1520-1-ND	.62	5.41	47.23	495-1520-2-ND	750	154.50	B45197A2106K309
10	15	10	C	1.5	400	495-1521-1-ND	.62	5.41	47.23	495-1521-2-ND	750	154.50	B45197A2156K309
10	22	10	C	2.2	375	495-1522-1-ND	.62	5.41	47.23	495-1522-2-ND	750	154.50	B45197A2226K309
10	22	10	B	2.2	800	495-1677-1-ND	.70	6.08	53.09	495-1677-2-ND	2,000	215.90/M	B45197A2226K209
10	33	10	C	3.3	375	495-1523-1-ND	.69	5.98	52.25	495-1523-2-ND	750	171.00	B45197A2336K309
10	47	10	C	4.7	300	495-1524-1-ND	.72	6.27	54.76	495-1524-2-ND	750	178.50	B45197A2476K309
10	47	10	D	4.7	200	495-1525-1-ND	.87	7.61	66.46	495-1525-2-ND	750	216.75	B45197A2476K409
10	68	20	C	6.8	250	495-1526-1-ND	.74	6.46	56.43	495-1526-2-ND	750	184.50	B45197A2686M309
10	68	10	D	6.8	150	495-1527-1-ND	.87	7.61	66.46	495-1527-2-ND	750	216.75	B45197A2686K409
10	100	10	C	10	250	495-1528-1-ND	.94	8.13	71.06	495-1528-2-ND	750	231.75	B45197A2107K309
10	100	10	D	10	100	495-1529-1-ND	.98	8.57	74.82	495-1529-2-ND	750	244.50	B45197A2107K409
10	100	10	E	10	100	495-1530-1-ND	1.64	14.26	124.56	495-1530-2-ND	400	216.80	B45197A2107K509

(Continued)

EPCOS

Surface Mount Tantalum and Polymer Capacitors *(Cont.)*

Rated Voltage (DC)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DC Leakage Current Max. (µA)	ESR Max. @ 100KHz 20°C (mΩ)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Epcos Part No.
							1	10	100		Size	Pricing	
10	150	10	D	15	100	495-1531-1-ND	1.05	9.09	79.42	495-1531-2-ND	750	259.50	B45197A2157K409
10	150	10	E	15	100	495-1532-1-ND	1.64	14.26	124.56	495-1532-2-ND	400	216.80	B45197A2157K509
10	220	10	D	22	100	495-1533-1-ND	1.18	10.24	89.45	495-1533-2-ND	750	291.75	B45197A2227K409
10	220	10	E	22	100	495-1534-1-ND	1.77	15.36	134.18	495-1534-2-ND	400	233.60	B45197A2227K509
10	330	10	D	33	150	495-1535-1-ND	1.44	12.54	109.52	495-1535-2-ND	750	389.25	B45197A2337K409
10	330	10	E	33	100	495-1536-1-ND	1.83	15.93	139.19	495-1536-2-ND	400	242.40	B45197A2337K509
10	470	10	E	47	100	495-1537-1-ND	2.05	17.85	155.91	495-1537-2-ND	400	271.60	B45197A2477K509
16	10	10	C	1.6	450	495-1538-1-ND	.62	5.41	47.23	495-1538-2-ND	750	154.50	B45197A3106K309
16	10	10	B	1.6	800	495-1676-1-ND	.65	5.65	49.32	495-1676-2-ND	2,000	200.60/M	B45197A3106K209
16	15	10	C	2.4	400	495-1539-1-ND	.62	5.41	47.23	495-1539-2-ND	750	154.50	B45197A3156K309
16	22	10	C	3.5	350	495-1540-1-ND	.69	5.98	52.25	495-1540-2-ND	750	171.00	B45197A3226K309
16	33	10	C	5.3	300	495-1541-1-ND	.72	6.27	54.76	495-1541-2-ND	750	178.50	B45197A3336K309
16	33	10	D	5.3	200	495-1542-1-ND	.87	7.61	66.46	495-1542-2-ND	750	216.75	B45197A3336K409
16	47	10	C	7.5	300	495-1543-1-ND	.76	6.60	57.68	495-1543-2-ND	750	188.25	B45197A3476K309
16	47	10	D	7.5	175	495-1544-1-ND	.87	7.61	66.46	495-1544-2-ND	750	216.75	B45197A3476K409
16	68	20	C	11	250	495-1545-1-ND	.91	7.94	69.39	495-1545-2-ND	750	226.50	B45197A3686M309
16	68	10	D	11	150	495-1546-1-ND	.98	8.57	74.82	495-1546-2-ND	750	244.50	B45197A3686K409
16	68	10	E	11	150	495-1547-1-ND	1.64	14.26	124.56	495-1547-2-ND	400	216.80	B45197A3686K509
16	100	10	D	16	150	495-1548-1-ND	1.05	9.09	79.42	495-1548-2-ND	750	259.50	B45197A3107K409
16	100	10	E	16	100	495-1549-1-ND	1.64	14.26	124.56	495-1549-2-ND	400	216.80	B45197A3107K509
16	150	10	D	24	150	495-1550-1-ND	1.31	11.39	99.48	495-1550-2-ND	750	324.75	B45197A3157K409
16	150	10	E	24	100	495-1551-1-ND	1.77	15.36	134.18	495-1551-2-ND	400	233.60	B45197A3157K509
16	220	10	E	35	100	495-1552-1-ND	2.11	18.37	160.51	495-1552-2-ND	400	279.60	B45197A3227K509
20	6.8	10	C	1.4	475	495-1553-1-ND	.65	5.69	49.74	495-1553-2-ND	750	162.75	B45197A4685K309
20	10	10	C	2.0	450	495-1554-1-ND	.65	5.69	49.74	495-1554-2-ND	750	162.75	B45197A4106K309
20	15	10	C	3.0	400	495-1555-1-ND	.69	5.98	52.25	495-1555-2-ND	750	171.00	B45197A4156K309
20	22	10	D	4.4	200	495-1556-1-ND	.91	7.94	69.39	495-1556-2-ND	750	226.50	B45197A4226K409
20	33	10	D	6.6	200	495-1557-1-ND	.91	7.94	69.39	495-1557-2-ND	750	226.50	B45197A4336K409
20	33	10	E	6.6	200	495-1558-1-ND	1.72	14.93	130.42	495-1558-2-ND	400	227.20	B45197A4336K509
20	47	10	D	9.4	250	495-1559-1-ND	.98	8.57	74.82	495-1559-2-ND	750	244.50	B45197A4476K409
20	47	10	E	9.4	150	495-1560-1-ND	1.72	14.93	130.42	495-1560-2-ND	400	227.20	B45197A4476K509
20	68	10	D	14	300	495-1561-1-ND	1.05	9.09	79.42	495-1561-2-ND	750	259.50	B45197A4686K409
20	68	10	E	14	200	495-1562-1-ND	1.77	15.36	134.18	495-1562-2-ND	400	233.60	B45197A4686K509
20	100	10	E	20	150	495-1563-1-ND	1.83	15.93	139.19	495-1563-2-ND	400	242.40	B45197A4107K509
25	4.7	10	C	1.2	525	495-1564-1-ND	.65	5.69	49.74	495-1564-2-ND	750	162.75	B45197A5475K309
25	10	10	C	2.5	450	495-1565-1-ND	.69	5.98	52.25	495-1565-2-ND	750	171.00	B45197A5106K309
25	15	10	D	3.8	230	495-1566-1-ND	.91	7.94	69.39	495-1566-2-ND	750	226.50	B45197A5156K409
25	22	10	D	5.5	230	495-1567-1-ND	.91	7.94	69.39	495-1567-2-ND	750	226.50	B45197A5226K409
25	22	10	E	5.5	230	495-1568-1-ND	1.72	14.93	130.42	495-1568-2-ND	400	227.20	B45197A5226K509
25	33	10	D	8.3	230	495-1569-1-ND	.98	8.57	74.82	495-1569-2-ND	750	244.50	B45197A5336K409
25	33	10	E	8.3	200	495-1570-1-ND	1.72	14.93	130.42	495-1570-2-ND	400	227.20	B45197A5336K509
25	47	10	D	12	250	495-1571-1-ND	1.05	9.09	79.42	495-1571-2-ND	750	259.50	B45197A5476K409
25	47	10	E	12	200	495-1572-1-ND	1.77	15.36	134.18	495-1572-2-ND	400	233.60	B45197A5476K509
25	68	10	E	17	200	495-1573-1-ND	1.83	15.93	139.19	495-1573-2-ND	400	242.40	B45197A5686K509
35	3.3	10	C	1.2	550	495-1574-1-ND	.68	5.93	51.83	495-1574-2-ND	750	169.50	B45197A6335K309
35	4.7	10	D	1.6	300	495-1575-1-ND	1.00	8.71	76.08	495-1575-2-ND	750	248.25	B45197A6475K409
35	6.8	10	D	2.4	300	495-1576-1-ND	1.00	8.71	76.08	495-1576-2-ND	750	248.25	B45197A6685K409
35	6.8	10	E	2.4	300	495-1577-1-ND	1.80	15.69	137.10	495-1577-2-ND	400	238.80	B45197A6685K509
35	10	10	D	3.5	260	495-1578-1-ND	1.00	8.71	76.08	495-1578-2-ND	750	248.25	B45197A6106K409
35	10	10	E	3.5	260	495-1579-1-ND	1.80	15.69	137.10	495-1579-2-ND	400	238.80	B45197A6106K509
35	15	10	D	5.3	260	495-1580-1-ND	1.00	8.71	76.08	495-1580-2-ND	750	248.25	B45197A6156K409
35	15	10	E	5.3	260	495-1581-1-ND	1.80	15.69	137.10	495-1581-2-ND	400	238.80	B45197A6156K509
35	22	10	D	7.7	260	495-1582-1-ND	1.40	12.15	106.17	495-1582-2-ND	750	346.50	B45197A6226K409
35	22	10	E	7.7	260	495-1583-1-ND	1.80	15.65	136.69	495-1583-2-ND	400	238.00	B45197A6226K509
35	33	10	E	12	260	495-1584-1-ND	2.02	17.56	153.41	495-1584-2-ND	400	267.20	B45197A6336K509
35	47	10	E	16	230	495-1585-1-ND	2.13	18.52	161.77	495-1585-2-ND	400	281.60	B45197A6476K509
50	4.7	10	D	2.4	300	495-1586-1-ND	1.22	10.62	92.80	495-1586-2-ND	750	303.00	B45197A7475K409
50	6.8	10	D	3.4	400	495-1587-1-ND	1.22	10.62	92.80	495-1587-2-ND	750	303.00	B45197A7685K409
50	6.8	10	E	3.4	300	495-1588-1-ND	2.21	19.24	168.04	495-1588-2-ND	400	292.80	B45197A7685K509
50	10	10	E	5.0	300	495-1589-1-ND	1.99	17.31	151.23	495-1589-2-ND	400	289.60	B45197A7106K509
Polymer Tantalum Capacitors Ultra-Low ESR													
2.5	220	20	V	55	25	495-2290-1-ND	2.15	18.66	163.02	495-2290-2-ND	1,000	729.30	B76002V2279M025
2.5	220	20	V	55	35	495-1590-1-ND	2.30	20.00	174.72	495-1590-2-ND	1,000	782.00	B76002V2279M035
2.5	220	20	V	55	45	495-2291-1-ND	1.93	16.75	146.30	495-2291-2-ND	1,000	654.50	B76002V2279M045
2.5	330	20	V	83	45	495-1591-1-ND	2.12	18.44	161.12	495-1591-2-ND	1,000	721.00	B76002V3379M045
4.0	220	20	V	88	25	495-2294-1-ND	1.75	15.23	133.00	495-2294-2-ND	1,000	654.50	B76004V2279M025
4.0	220	20	V	88	45	495-1592-1-ND	1.99	17.27	150.90	495-1592-2-ND	1,000	675.00	B76004V2279M045
4.0	470	20	D	188	25	495-2292-1-ND	3.03	26.32	229.90	495-2292-2-ND	750	825.83	B76004D4779M25K2
4.0	470	20	D	188	40	495-1598-1-ND	2.30	20.00	174.72	495-1598-2-ND	750	627.75	B76004D4779M040
4.0	680	20	E	272	40	495-2293-1-ND	3.63	31.58	275.88	495-2293-2-ND	400	528.53	B76004E6879M040
6.3	100	20	V	63	45	495-1593-1-ND	1.99	17.27	150.90	495-1593-2-ND	1,000	675.00	B76006V1079M045
6.3	150	20	D	95	55	495-2296-1-ND	2.70	23.45	204.82	495-2296-2-ND	750	735.74	B76006D1579M055
6.3	150	20	V	95	25	495-2300-1-ND	1.93	16.75	146.30	495-2300-2-ND	1,000	654.50	B76006V1579M025
6.3	150	20	V	95	35	495-2301-1-ND	1.93	16.75	146.30	495-2301-2-ND	1,000	654.50	B76006V1579M035
6.3	150	20	V	95	45	495-1594-1-ND	2.30	20.00	174.72	495-1594-2-ND	1,000	782.00	B76006V1579M045
6.3	150	20	X	95	70	495-2304-1-ND	1.93	16.75	146.30	495-2304-2-ND	1,250	654.51/M	B76006X1579M070
6.3	220	20	D	139	40	495-2297-1-ND	2.70	23.45	204.82	495-2297-2-ND	750	735.74	B76006D2279M040
6.3	220	20	V	139	25	495-2302-1-ND	1.93	16.75	146.30	495-2302-2-ND	1,000	654.50	B76006V2279M025
6.3	220	20	D	139	45	495-1600-1-ND	2.45	21.32	186.20	495-1600-2-ND	750	669.00	B76006D2279M045
6.3	220	20	D	139	50	495-1599-1-ND	2.35	20.43	178.49	495-1599-2-ND	750	641.25	B76006D2279M050
6.3	220	20	V	139	40	495-1596-1-ND	2.30	20.00	174.72	495-1596-2-ND	1,000	782.00	B76006V2279M040
6.3	220	20	V	139	45	495-1595-1-ND	1.99	17.27	150.90	495-1595-2-ND	1,000	675.00	B76006V2279M045
6.3	330	20	D	208	25	495-2298-1-ND	2.70	23.45	204.82	495-2298-2-ND	750	735.74	B76006D3379M025
6.3	330	20	D	208	45	495-1601-1-ND	2.40	20.91	182.67	495-1601-2-ND	750	656.25	B76006D3379M045
6.3	330	20	D	208	40	495-1602-1-ND	2.65	23.02	201.06	495-1602-2-ND	750	722.25	B76006D3379M040
6.3	330	20	V	208	45	495-2303-1-ND	2.70	23.45	204.82	495-2303-2-ND	1,000	916.30	B76006V3379M045
6.3	470	20	E	296	35	495-1603-1-ND	4.03	35.03	305.98	495-1603-2-ND	400	586.00	B76006E4779M035
6.3	470	20	E	296	40	495-2299-1-ND	2.75	23.93	209.00	495-2299-2-ND	400	400.40	B76006E4779M040
10	68	20	V	68	45	495-2309-1-ND	2.15	18.66	163.02	495-2309-2-ND	1,000	729.30	B76010V6869M045
10	68	20	V	68	60	495-2310-1-ND	1.93	16.75	146.30	495-2310-2-ND	1,000	654.50	B76010V6869M060

(Continued)

Surface Mount Tantalum and Polymer Capacitors *(Cont.)*

Rated Voltage (DC)	Capacitance (µF)	Capacitance Tolerance (%)	Case Size	DC Leakage Current Max. (µA)	ESR Max. @ 100KHz 20°C (mΩ)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Epcos Part No.
Polymer Tantalum Capacitors Ultra-Low ESR													
10	100	20	D	100	55	495-1604-1-ND	2.65	23.02	201.06	495-1604-2-ND	750	722.25	B76010D1079M055
10	100	20	D	100	80	495-2305-1-ND	2.70	23.45	204.82	495-2305-2-ND	750	735.74	B76010D1079M080
10	100	20	V	100	55	495-2308-1-ND	2.15	18.66	163.02	495-2308-2-ND	1,000	729.30	B76010V1079M055
10	100	20	V	100	80	495-1597-1-ND	2.30	20.00	174.72	495-1597-2-ND	1,000	782.00	B76010V1079M080
10	150	20	D	150	55	495-2306-1-ND	2.70	23.45	204.82	495-2306-2-ND	750	735.74	B76010D1579M055
10	220	20	D	220	40	495-1605-1-ND	2.58	22.45	196.08	495-1605-2-ND	750	704.25	B76010D2279M040
10	220	20	D	220	55	495-2307-1-ND	2.70	23.45	204.82	495-2307-2-ND	750	735.74	B76010D2279M055
16	47	20	V	75	70	495-2311-1-ND	2.15	18.66	163.02	495-2311-2-ND	1,000	729.30	B76016V4769M070
Multiple Anode Ultra-Low ESR Tantalum Capacitors													
4.0	680	10	E	27	30	495-1606-1-ND	8.21	71.39	623.66	495-1606-2-ND	400	1194.80	B45396R0687K509
4.0	1000	10	E	40	30	495-1607-1-ND	9.27	80.68	704.75	495-1607-2-ND	400	1350.00	B45396R0108K509
6.3	470	10	E	30	30	495-1608-1-ND	8.21	71.39	623.66	495-1608-2-ND	400	1086.00	B45396R1477K509
10	330	10	E	33	35	495-1609-1-ND	8.21	71.39	623.66	495-1609-2-ND	400	1086.00	B45396R2337K509
Multiple Anode Polymer Ultra-Low ESR Tantalum Capacitors													
4.0	680	20	E	270	18	495-1612-1-ND	9.20	80.01	698.90	495-1612-2-ND	400	1338.80	B76304E6879M018
4.0	680	20	E	272	10	495-2312-1-ND	15.95	138.77	1212.20	495-2312-2-ND	400	2322.32	B76304E6879M010
6.3	470	20	E	296	18	495-2313-1-ND	11.00	95.70	836.00	495-2313-2-ND	400	1601.60	B76306E4479M018
6.3	680	20	E	428	18	495-2315-1-ND	13.75	119.63	1045.00	495-2315-2-ND	400	2002.00	B76306E6879M018
6.3	680	20	E	428	10	495-2314-1-ND	15.95	138.77	1212.20	495-2314-2-ND	400	2322.32	B76306E6879M010

NEW! TC Series Standard Tantalum Electrolytic Capacitors

Features:

Small package, large capacitance chip tantalum capacitor. These low impedance capacitors are ideal for digital and low voltage circuits used in portable electronic equipment.

Specifications:

• **Capacitance Tolerance:** 20% • **Operating Temperature Range:** -55°C ~ 125°C (derated voltage from 85°C ~ 125°C) • **Tangent of Loss Angle:** Max. 24% at 120MHz (25°C) • **Leakage Current:** 0.5µA or 0.01CV- whichever is greater • **Impedance:** Max 27.5Ω at 100kHz.

All Dimensions ± .2mm

Size Code	L	W1	W2	H	S
P	2	1.25	0.85	Max 1.2	0.5
A	3.2	1.6	1.2	1.6	0.8

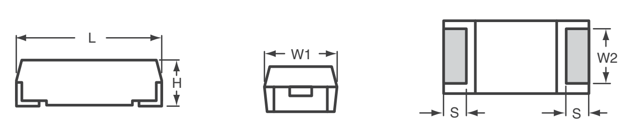

W.V. (DC)	Capacitance (µF)	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Rohm Part No.
4	2.2	P	511-1427-1-ND	.33	2.83	24.70	511-1427-2-ND	3,000	117.00/M	TCP0G225M8R
	3.3	P	511-1428-1-ND	.33	2.83	24.70	511-1428-2-ND	3,000	117.00/M	TCP0G335M8R
	4.7	A	511-1429-1-ND	.33	2.83	24.70	511-1429-2-ND	2,000	117.00/M	TCA0G475M8R
	10	A	511-1430-1-ND	.33	2.83	24.70	511-1430-2-ND	2,000	117.00/M	TCA0G106M8R
	10	P	511-1431-1-ND	.33	2.83	24.70	511-1431-2-ND	3,000	117.00/M	TCP0G106M8R
	15	A	511-1432-1-ND	.33	2.83	24.70	511-1432-2-ND	2,000	117.00/M	TCA0G156M8R
	15	P	511-1433-1-ND	.39	3.35	29.26	511-1433-2-ND	3,000	139.00/M	TCP0G156M8R
	22	A	511-1434-1-ND	.33	2.83	24.70	511-1434-2-ND	2,000	117.00/M	TCA0G226M8R
	22	P	511-1435-1-ND	.49	4.22	36.86	511-1435-2-ND	3,000	175.00/M	TCP0G226M8R
	33	A	511-1436-1-ND	.33	2.83	24.70	511-1436-2-ND	2,000	117.00/M	TCA0G336M8R
	47	A	511-1437-1-ND	.33	2.83	24.70	511-1437-2-ND	2,000	117.00/M	TCA0G476M8R
6.3	1.5	P	511-1438-1-ND	.33	2.83	24.70	511-1438-2-ND	3,000	117.00/M	TCP0J155M8R
	2.2	P	511-1439-1-ND	.33	2.83	24.70	511-1439-2-ND	3,000	117.00/M	TCP0J225M8R
	3.3	A	511-1440-1-ND	.33	2.83	24.70	511-1440-2-ND	2,000	117.00/M	TCA0J335M8R
	3.3	P	511-1441-1-ND	.33	2.83	24.70	511-1441-2-ND	3,000	117.00/M	TCP0J335M8R
	4.7	A	511-1442-1-ND	.33	2.83	24.70	511-1442-2-ND	2,000	117.00/M	TCA0J475M8R
	4.7	P	511-1443-1-ND	.33	2.83	24.70	511-1443-2-ND	3,000	117.00/M	TCP0J475M8R
	6.8	A	511-1444-1-ND	.33	2.83	24.70	511-1444-2-ND	2,000	117.00/M	TCA0J685M8R
	6.8	P	511-1445-1-ND	.39	3.35	29.26	511-1445-2-ND	3,000	139.00/M	TCP0J685M8R
	10	A	511-1446-1-ND	.33	2.83	24.70	511-1446-2-ND	2,000	117.00/M	TCA0J106M8R
	10	P	511-1447-1-ND	.36	3.09	26.98	511-1447-2-ND	3,000	128.00/M	TCP0J106M8R
	15	P	511-1448-1-ND	.65	5.61	49.02	511-1448-2-ND	3,000	232.00/M	TCP0J156M8R
	15	A	511-1449-1-ND	.33	2.83	24.70	511-1449-2-ND	2,000	117.00/M	TCA0J156M8R
	22	A	511-1450-1-ND	.30	2.57	22.42	511-1450-2-ND	2,000	106.00/M	TCA0J226M8R
	33	A	511-1451-1-ND	.33	2.83	24.70	511-1451-2-ND	2,000	117.00/M	TCA0J336M8R
	47	A	511-1452-1-ND	.33	2.83	24.70	511-1452-2-ND	2,000	117.00/M	TCA0J476M8R
10	1	P	511-1453-1-ND	.29	2.52	22.04	511-1453-2-ND	3,000	104.00/M	TCP1A105M8R
	1.5	P	511-1454-1-ND	.33	2.83	24.70	511-1454-2-ND	3,000	117.00/M	TCP1A155M8R
	1.5	A	511-1455-1-ND	.33	2.83	24.70	511-1455-2-ND	2,000	117.00/M	TCA1A155M8R
	2.2	A	511-1456-1-ND	.33	2.83	24.70	511-1456-2-ND	2,000	117.00/M	TCA1A225M8R
	2.2	P	511-1457-1-ND	.33	2.83	24.70	511-1457-2-ND	3,000	117.00/M	TCP1A225M8R
	3.3	P	511-1458-1-ND	.33	2.83	24.70	511-1458-2-ND	3,000	117.00/M	TCP1A335M8R
	3.3	A	511-1459-1-ND	.33	2.83	24.70	511-1459-2-ND	2,000	117.00/M	TCA1A335M8R
	4.7	A	511-1460-1-ND	.33	2.83	24.70	511-1460-2-ND	2,000	117.00/M	TCA1A475M8R
	4.7	P	511-1461-1-ND	.39	3.35	29.26	511-1461-2-ND	3,000	139.00/M	TCP1A475M8R
	6.8	A	511-1462-1-ND	.33	2.83	24.70	511-1462-2-ND	2,000	117.00/M	TCA1A685M8R
	10	A	511-1463-1-ND	.33	2.83	24.70	511-1463-2-ND	2,000	117.00/M	TCA1A106M8R
	15	A	511-1464-1-ND	.33	2.83	24.70	511-1464-2-ND	2,000	117.00/M	TCA1A156M8R
	22	A	511-1465-1-ND	.33	2.83	24.70	511-1465-2-ND	2,000	117.00/M	TCA1A226M8R
16	1	A	511-1466-1-ND	.33	2.83	24.70	511-1466-2-ND	2,000	117.00/M	TCA1C105M8R
	1	P	511-1467-1-ND	.33	2.83	24.70	511-1467-2-ND	3,000	117.00/M	TCP1C105M8R
	1.5	A	511-1468-1-ND	.33	2.83	24.70	511-1468-2-ND	2,000	117.00/M	TCA1C155M8R
	2.2	A	511-1469-1-ND	.33	2.83	24.70	511-1469-2-ND	2,000	117.00/M	TCA1C225M8R
	3.3	A	511-1470-1-ND	.33	2.83	24.70	511-1470-2-ND	2,000	117.00/M	TCA1C335M8R
	4.7	A	511-1471-1-ND	.33	2.83	24.70	511-1471-2-ND	2,000	117.00/M	TCA1C475M8R
	6.8	A	511-1472-1-ND	.33	2.83	24.70	511-1472-2-ND	2,000	117.00/M	TCA1C685M8R
	10	A	511-1473-1-ND	.33	2.83	24.70	511-1473-2-ND	2,000	117.00/M	TCA1C106M8R
20	1	A	511-1474-1-ND	.33	2.83	24.70	511-1474-2-ND	2,000	117.00/M	TCA1D105M8R

Panasonic® B-Series Polyester Capacitors

PANASONIC ECQ-B CROSS REFERENCE:

Sprague: 225P, 418P; **Mepco:** 713D1, 711D1, 719D1; **TRW:** 601PE, 601CPE; **Packtron:** PE, FM; **Secor:** MFDW, MFDR; **Roederstein:** KT1805, KT1806, KT1807, KT1898; **Wima:** FKS; **CSF Thompson:** ED (Dip); **Rubycon:** F2X, F2S, F3U; **Nichicon:** TDY; **Nissei:** AMZ, AMX, AMR, AMM.

SPECIFICATIONS:

- **Operating Temp. Range:** -40° ~ 85°C • **Rated Voltage:** DC 50V, 100V, 200V • **Capacitance Range:** .0001 ~ 0.47µF • **Capacitance Tolerance:** ±5% (J), ±10% (K) • **Dissipation Factor:** 1.0% (20°C, 1kHz) • **Withstand Voltage:** Between Terminals: rated voltage(V, DC) x 250% 1 ~ 5 seconds • **Insulation Resistance:** C ≤0.33µF: 30000MΩ minimum (20°C, 50VDC 60s: ECQB1H(F), C>0.33µF: 10000MΩ·µF minimum (20°C, 100VDC 60s: ECQB1(F), ECQB2(F) • **Construction:** Polyester film, non-inductive, epoxy coating.

FEATURES:

High volumetric efficiency; non-inductive construction; low-loss, high stability; and epoxy resin coating.

APPLICATIONS:

Blocking, by-pass and coupling of DC and signal to VHF range; pulse, logic and timing circuits; light duty pulse forming networks; filter & noise suppression circuits; and general purpose usage.

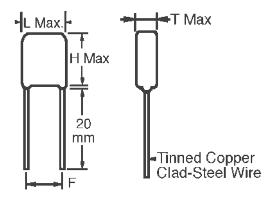

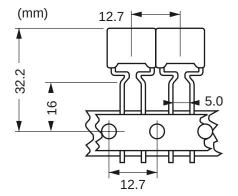

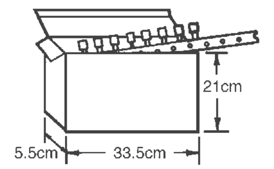

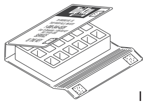

Panasonic Polyester Capacitors

Digi-Key® B-Series Kit

300 capacitors in all.

P4550-KIT-ND........**$29.95**

Includes those parts listed below (*).

P4551-ND . 80 pc.	P4555-ND . 30 pc.	P4559-ND . 30 pc.
P4552-ND . 10 pc.	P4556-ND . 10 pc.	P4560-ND . 10 pc.
P4553-ND . 20 pc.	P4557-ND . 20 pc.	P4561-ND . 30 pc.
P4554-ND . 20 pc.	P4558-ND . 20 pc.	P4562-ND . 20 pc.

Volts	Cap. µF	Toler-ance	Dimensions (mm)				Digi-Key Part No.	Pricing					Panasonic Part No.
			L	T	H	F		10	100	1,000	5,000	10,000	
50WV (Bulk Pkg.)	.0001	±10%	7.0	3.0	6.0	5.0	P4570-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H101KF
	.00012	±10%	7.0	3.0	6.0	5.0	P4571-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H121KF
	.00015	±10%	7.0	3.0	6.0	5.0	P4572-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H151KF
	.00018	±10%	7.0	3.0	6.0	5.0	P4573-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H181KF
	.00022	±10%	7.0	3.0	6.0	5.0	P4574-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H221KF
	.00027	±10%	7.0	3.0	6.0	5.0	P4575-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H271KF
	.00033	±10%	7.0	3.0	6.0	5.0	P4576-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H331KF
	.00039	±10%	7.0	3.0	6.0	5.0	P4577-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H391KF
	.00047	±5%	7.0	3.0	6.0	5.0	P4578-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H471JF
	.00056	±5%	7.0	3.0	6.0	5.0	P4579-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H561JF
	.00068	±5%	7.0	3.0	6.0	5.0	P4580-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H681JF
	.00082	±5%	7.0	3.0	6.0	5.0	P4581-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H821JF
	.001	±5%	7.0	3.0	6.0	5.0	P4551-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H102JF
	.0012	±5%	7.0	3.0	6.0	5.0	P4552-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H122JF
	.0015	±5%	7.0	3.0	6.0	5.0	P4553-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H152JF
	.0018	±5%	7.0	3.0	6.0	5.0	P4554-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H182JF
	.0022	±5%	7.0	3.0	6.0	5.0	P4555-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H222JF
	.0027	±5%	7.0	3.0	6.0	5.0	P4556-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H272JF
	.0033	±5%	7.0	3.0	6.0	5.0	P4557-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H332JF
	.0039	±5%	7.0	3.0	6.0	5.0	P4558-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H392JF
	.0047	±5%	7.0	3.0	6.0	5.0	P4559-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H472JF
	.0056	±5%	7.0	3.0	6.0	5.0	P4560-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H562JF
	.0068	±5%	7.0	3.0	6.0	5.0	P4561-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H682JF
	.0082	±5%	7.0	3.0	6.0	5.0	P4562-ND*	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H822JF
	.01	±5%	7.0	3.0	6.0	5.0	P4582-ND	.72	4.80	38.00	36.00/M	33.00/M	ECQ-B1H103JF
	.012	±5%	7.3	3.3	6.3	5.0	P4583-ND	.75	5.00	39.00	38.00/M	34.00/M	ECQ-B1H123JF
	.015	±5%	7.5	3.0	6.0	5.0	P4584-ND	.78	5.20	41.00	39.00/M	36.00/M	ECQ-B1H153JF
	.018	±5%	7.5	3.0	6.0	5.0	P4585-ND	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H183JF
	.022	±5%	7.5	3.0	6.0	5.0	P4586-ND	.81	5.40	42.00	41.00/M	37.00/M	ECQ-B1H223JF
	.027	±5%	7.5	3.5	6.5	5.0	P4587-ND	.84	5.60	44.00	42.00/M	38.00/M	ECQ-B1H273JF
	.033	±5%	7.5	3.5	6.5	5.0	P4569-ND	.87	5.80	45.00	44.00/M	40.00/M	ECQ-B1H333JF
	.039	±5%	7.5	3.5	6.5	5.0	P4588-ND	.90	6.00	47.00	45.00/M	41.00/M	ECQ-B1H393JF
	.047	±5%	7.5	4.0	7.0	5.0	P4589-ND	.93	6.20	48.00	47.00/M	42.00/M	ECQ-B1H473JF
	.056	±5%	8.0	4.0	7.5	5.0	P4590-ND	.99	6.60	52.00	50.00/M	45.00/M	ECQ-B1H563JF
	.068	±5%	8.0	4.3	8.5	5.0	P4591-ND	1.14	7.60	59.00	57.00/M	52.00/M	ECQ-B1H683JF
	.082	±5%	8.0	4.5	9.0	5.0	P4592-ND	1.20	8.00	63.00	60.00/M	55.00/M	ECQ-B1H823JF
	.1	±5%	8.0	5.0	10.0	5.0	P4593-ND	1.29	8.60	67.00	65.00/M	59.00/M	ECQ-B1H104JF
	.12	±5%	11.0	5.0	11.6	7.5	P4594-ND	3.15	21.00	164.00	159.00/M	144.00/M	ECQ-B1H124JF
	.15	±5%	11.0	5.0	12.0	7.5	P4595-ND	3.39	22.60	177.00	171.00/M	155.00/M	ECQ-B1H154JF
	.18	±5%	11.0	5.5	12.4	7.5	P4596-ND	3.54	23.60	184.00	178.00/M	162.00/M	ECQ-B1H184JF
	.22	±5%	11.0	6.0	13.0	7.5	P4597-ND	3.96	26.40	206.00	199.00/M	181.00/M	ECQ-B1H224JF
	.27	±5%	13.0	6.0	14.4	10.0	P4598-ND	4.95	33.00	258.00	249.00/M	226.00/M	ECQ-B1H274JF
	.33	±5%	13.0	6.5	15.0	10.0	P4599-ND	5.34	35.60	278.00	269.00/M	244.00/M	ECQ-B1H334JF
	.39	±5%	13.0	7.0	15.4	10.0	P4734-ND	5.76	38.40	300.00	290.00/M	263.00/M	ECQ-B1H394JF
	.47	±5%	13.0	7.5	16.2	10.0	P4735-ND	6.33	42.20	330.00	319.00/M	289.00/M	ECQ-B1H474JF
100WV (Bulk Pkg.)	.0001	±5%	7.2	3.0	6.0	5.0	P4773-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1101JF
	.00012	±5%	7.2	3.0	6.0	5.0	P4774-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1121JF
	.00015	±5%	7.2	3.0	6.0	5.0	P4775-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1151JF
	.00018	±5%	7.2	3.0	6.0	5.0	P4776-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1181JF
	.00022	±5%	7.2	3.0	6.0	5.0	P4777-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1221JF
	.00027	±5%	7.2	3.0	6.0	5.0	P4778-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1271JF
	.00033	±5%	7.2	3.0	6.0	5.0	P4779-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1331JF
	.00039	±5%	7.2	3.0	6.0	5.0	P4780-ND	2.04	13.60	106.00	103.00/M	93.00/M	ECQ-B1391JF
	.00047	±5%	7.2	3.0	6.0	5.0	P4781-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1471JF
	.00056	±5%	7.2	3.0	6.0	5.0	P4782-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1561JF
	.00068	±5%	7.2	3.0	6.0	5.0	P4783-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1681JF
	.00082	±5%	7.2	3.0	6.0	5.0	P4784-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1821JF
	.001	±5%	7.2	3.0	6.0	5.0	P4785-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1102JF
	.0012	±5%	7.2	3.0	6.0	5.0	P4786-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1122JF
	.0015	±5%	7.2	3.0	6.0	5.0	P4787-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1152JF
	.0018	±5%	7.2	3.0	6.5	5.0	P4788-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1182JF
	.0022	±5%	7.2	3.0	6.5	5.0	P4789-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1222JF
	.0027	±5%	7.2	3.0	6.5	5.0	P4790-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1272JF
	.0033	±5%	7.2	3.0	6.5	5.0	P4791-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1332JF
	.0039	±5%	7.2	3.0	6.5	5.0	P4792-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1392JF
	.0047	±5%	7.2	3.0	6.5	5.0	P4793-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1472JF
	.0056	±5%	7.2	3.0	6.5	5.0	P4794-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1562JF
	.0068	±5%	7.2	3.0	6.5	5.0	P4795-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1682JF
	.0082	±5%	7.2	3.2	7.0	5.0	P4796-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1822JF
	.01	±5%	7.2	3.2	7.0	5.0	P4797-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1103JF

(Continued)

Volts	Cap. µF	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing					Panasonic Part No.
			L	T	H	F		10	100	1,000	5,000	10,000	
100WV (Bulk Pkg.)	.012	±5%	7.2	3.5	7.0	5.0	P4798-ND	1.16	7.74	60.00	58.00/M	53.00/M	ECQ-B1123JF
	.015	±5%	7.2	4.0	7.5	5.0	P4799-ND	1.20	8.02	63.00	61.00/M	55.00/M	ECQ-B1153JF
	.018	±5%	7.5	4.5	8.0	5.0	P4647-ND	1.28	8.56	67.00	65.00/M	59.00/M	ECQ-B1183JF
	.022	±5%	7.5	4.5	9.0	5.0	P4648-ND	1.38	9.22	72.00	70.00/M	63.00/M	ECQ-B1223JF
	.027	±5%	7.5	5.0	9.5	5.0	P4649-ND	1.44	9.62	75.00	73.00/M	66.00/M	ECQ-B1273JF
	.033	±5%	7.5	5.5	10.0	5.0	P4650-ND	1.47	9.80	77.00	74.00/M	67.00/M	ECQ-B1333JF
	.039	±5%	7.5	6.0	11.2	5.0	P4651-ND	1.47	9.80	77.00	74.00/M	67.00/M	ECQ-B1393JF
	.047	±5%	7.5	6.5	11.8	5.0	P4652-ND	1.49	9.90	77.00	75.00/M	68.00/M	ECQ-B1473JF
	.056	±5%	10.0	5.0	12.0	7.5	P4653-ND	1.49	9.90	77.00	75.00/M	68.00/M	ECQ-B1563JF
	.068	±5%	10.0	5.5	12.4	7.5	P4654-ND	1.52	10.12	79.00	76.00/M	69.00/M	ECQ-B1683JF
	.082	±5%	10.0	5.5	14.0	7.5	P4655-ND	1.55	10.36	81.00	78.00/M	71.00/M	ECQ-B1823JF
	.1	±5%	10.5	6.0	14.6	7.5	P4656-ND	1.59	10.58	83.00	80.00/M	72.00/M	ECQ-B1104JF
	.12	±5%	10.5	7.0	15.2	7.5	P4657-ND	2.54	16.94	132.00	128.00/M	116.00/M	ECQ-B1124JF
	.15	±5%	13.0	7.0	13.8	10.0	P4658-ND	3.05	20.32	159.00	153.00/M	139.00/M	ECQ-B1154JF
	.18	±5%	13.0	7.5	14.4	10.0	P4659-ND	3.56	23.70	185.00	179.00/M	162.00/M	ECQ-B1184JF
	.22	±5%	13.0	8.0	15.2	10.0	P4660-ND	4.06	27.08	212.00	205.00/M	185.00/M	ECQ-B1224JF
	.27	±5%	13.0	8.5	17.2	10.0	P4661-ND	4.57	30.46	238.00	230.00/M	209.00/M	ECQ-B1274JF
	.33	±5%	13.0	9.0	18.0	10.0	P4662-ND	5.08	33.84	264.00	256.00/M	232.00/M	ECQ-B1334JF
	.39	±5%	13.0	10.5	19.0	10.0	P4663-ND	6.09	40.60	317.00	307.00/M	278.00/M	ECQ-B1394JF
	.47	±5%	13.0	11.5	19.2	10.0	P4664-ND	7.61	50.74	396.00	383.00/M	348.00/M	ECQ-B1474JF
200WV (Bulk Pkg.)	.001	±5%	8.5	4.0	7.0	5.0	P4537A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2102JF
	.0012	±5%	8.5	4.0	7.5	5.0	P4538A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2122JF
	.0015	±5%	8.5	4.0	7.5	5.0	P4539A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2152JF
	.0018	±5%	8.5	4.5	7.5	5.0	P4540A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2182JF
	.0022	±5%	8.5	4.5	7.5	5.0	P4541A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2222JF
	.0027	±5%	8.5	4.5	8.0	5.0	P4542A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2272JF
	.0033	±5%	11.0	4.5	7.5	7.5	P4543A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2332JF
	.0039	±5%	11.0	4.5	7.5	7.5	P4544A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2392JF
	.0047	±5%	11.0	4.5	8.5	7.5	P4545A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2472JF
	.0056	+5%	11.0	4.5	8.5	7.5	P4546A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2562JF
	.0068	±5%	11.0	4.5	9.0	7.5	P4547A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2682JF
	.0082	±5%	11.0	4.5	9.0	7.5	P4548A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2822JF
	.01	±5%	11.0	4.5	10.0	7.5	P4549A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2103JF
	.012	±5%	11.0	5.0	10.5	7.5	P4550A-ND	1.40	9.30	73.00	70.00/M	64.00/M	ECQ-B2123JF
	.015	±5%	11.0	5.5	10.5	7.5	P4551A-ND	1.44	9.62	75.00	73.00/M	66.00/M	ECQ-B2153JF
	.018	±5%	11.0	5.5	12.2	7.5	P4552A-ND	1.55	10.30	80.00	78.00/M	71.00/M	ECQ-B2183JF
	.022	±5%	11.0	6.0	12.6	7.5	P4553A-ND	1.66	11.08	87.00	84.00/M	76.00/M	ECQ-B2223JF
	.027	±5%	11.0	6.5	13.2	7.5	P4554A-ND	1.73	11.56	90.00	87.00/M	79.00/M	ECQ-B2273JF
	.033	±5%	11.0	7.0	13.6	7.5	P4555A-ND	1.77	11.78	92.00	89.00/M	81.00/M	ECQ-B2333JF
	.039	±5%	13.5	5.0	14.4	10.0	P4556A-ND	1.77	11.78	92.00	89.00/M	81.00/M	ECQ-B2393JF
	.047	±5%	13.5	5.5	14.8	10.0	P4557A-ND	1.78	11.88	93.00	90.00/M	81.00/M	ECQ-B2473JF
	.056	±5%	13.5	6.0	15.4	10.0	P4558A-ND	1.78	11.88	93.00	90.00/M	81.00/M	ECQ-B2563JF
	.068	±5%	16.0	5.5	15.0	12.5	P4559A-ND	1.82	12.16	95.00	92.00/M	83.00/M	ECQ-B2683JF
	.082	±5%	16.0	6.0	15.4	12.5	P4560A-ND	1.86	12.42	97.00	94.00/M	85.00/M	ECQ-B2823JF
	.1	±5%	16.0	7.0	16.0	12.5	P4561A-ND	1.91	12.70	99.00	96.00/M	87.00/M	ECQ-B2104JF
	.12	±5%	19.0	6.5	17.6	15.0	P4562A-ND	3.05	20.34	159.00	154.00/M	139.00/M	ECQ-B2124JF
	.15	±5%	19.0	7.5	18.4	15.0	P4563A-ND	3.66	24.38	190.00	184.00/M	167.00/M	ECQ-B2154JF
	.18	±5%	19.0	8.0	19.0	15.0	P4564A-ND	4.27	28.44	222.00	215.00/M	195.00/M	ECQ-B2184JF
	.22	±5%	19.0	9.0	20.0	15.0	P4565A-ND	4.88	32.50	254.00	245.00/M	223.00/M	ECQ-B2224JF
	.27	±5%	24.0	8.0	19.4	20.0	P4566A-ND	5.48	36.56	286.00	276.00/M	250.00/M	ECQ-B2274JF
	.33	±5%	24.0	9.0	20.4	20.0	P4567A-ND	6.09	40.62	317.00	307.00/M	278.00/M	ECQ-B2334JF
	.39	±5%	24.0	10.0	21.2	20.0	P4568A-ND	7.31	48.72	381.00	368.00/M	334.00/M	ECQ-B2394JF
	.47	±5%	24.0	11.5	22.2	20.0	P4569A-ND	9.14	60.92	476.00	460.00/M	417.00/M	ECQ-B2474JF

Volts	Cap. µF	Tolerance	Dimensions (mm)				Digi-Key Part No.	Tape & Box Pricing								Panasonic Part No.
			L	T	H	F		500	1,000	2,000	5,000	6,000	10,000	25,000	26,000	
50WV (Ammo Box Pkg.)	.0001	±10%	7.0	3.0	6.0	5.0	P4570TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H101KF3
	.00012	±10%	7.0	3.0	6.0	5.0	P4571TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H121KF3
	.00015	±10%	7.0	3.0	6.0	5.0	P4572TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H151KF3
	.00018	±10%	7.0	3.0	6.0	5.0	P4573TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H181KF3
	.00022	±10%	7.0	3.0	6.0	5.0	P4574TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H221KF3
	.00027	±10%	7.0	3.0	6.0	5.0	P4575TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H271KF3
	.00033	±10%	7.0	3.0	6.0	5.0	P4576TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H331KF3
	.00039	±10%	7.0	3.0	6.0	5.0	P4577TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H391KF3
	.00047	±5%	7.0	3.0	6.0	5.0	P4578TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H471JF3
	.00056	±5%	7.0	3.0	6.0	5.0	P4579TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H561JF3
	.00068	±5%	7.0	3.0	6.0	5.0	P4580TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H681JF3
	.00082	±5%	7.0	3.0	6.0	5.0	P4581TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H821JF3
	.001	±5%	7.0	3.0	6.0	5.0	P4551TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H102JF3
	.0012	±5%	7.0	3.0	6.0	5.0	P4552TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H122JF3
	.0015	±5%	7.0	3.0	6.0	5.0	P4553TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H152JF3
	.0018	±5%	7.0	3.0	6.0	5.0	P4554TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H182JF3
	.0022	±5%	7.0	3.0	6.0	5.0	P4555TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H222JF3
	.0027	±5%	7.0	3.0	6.0	5.0	P4556TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H272JF3
	.0033	±5%	7.0	3.0	6.0	5.0	P4557TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H332JF3
	.0039	±5%	7.0	3.0	6.0	5.0	P4558TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H392JF3
	.0047	±5%	7.0	3.0	6.0	5.0	P4559TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H472JF3
	.0056	±5%	7.0	3.0	6.0	5.0	P4560TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H562JF3
	.0068	±5%	7.0	3.0	6.0	5.0	P4561TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H682JF3
	.0082	±5%	7.0	3.0	6.0	5.0	P4562TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H822JF3
	.01	±5%	7.0	3.0	6.0	5.0	P4582TB-ND	—	—	38.00/M	—	36.00/M	33.00/M	—	29.00/M	ECQ-B1H103JF3
	.012	±5%	7.3	3.3	6.3	5.0	P4583TB-ND	—	—	39.00/M	—	38.00/M	34.00/M	—	30.00/M	ECQ-B1H123JF3
	.015	±5%	7.5	3.0	6.0	5.0	P4584TB-ND	—	—	41.00/M	—	39.00/M	36.00/M	—	31.00/M	ECQ-B1H153JF3
	.018	±5%	7.5	3.0	6.0	5.0	P4585TB-ND	—	—	42.00/M	—	41.00/M	37.00/M	—	33.00/M	ECQ-B1H183JF3
	.022	±5%	7.5	3.0	6.0	5.0	P4586TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H223JF3
	.027	±5%	7.5	3.5	6.5	5.0	P4587TB-ND	—	—	44.00/M	—	42.00/M	38.00/M	—	34.00/M	ECQ-B1H273JF3
	.033	±5%	7.5	3.5	6.5	5.0	P4569TB-ND	—	—	45.00/M	—	44.00/M	40.00/M	—	35.00/M	ECQ-B1H333JF3
	.039	±5%	7.5	4.0	7.0	5.0	P4588TB-ND	—	—	47.00/M	—	45.00/M	41.00/M	—	36.00/M	ECQ-B1H393JF3
	.047	±5%	7.5	4.0	7.5	5.0	P4589TB-ND	—	50.00	—	48.00/M	—	44.00/M	39.00/M	—	ECQ-B1H473JF3
	.056	±5%	8.0	4.3	7.5	5.0	P4590TB-ND	—	52.00	—	50.00/M	—	45.00/M	40.00/M	—	ECQ-B1H563JF3
	.068	±5%	8.0	4.3	8.5	5.0	P4591TB-ND	—	59.00	—	57.00/M	—	52.00/M	46.00/M	—	ECQ-B1H683JF3
	.082	±5%	8.0	4.5	9.0	5.0	P4592TB-ND	—	63.00	—	60.00/M	—	55.00/M	48.00/M	—	ECQ-B1H823JF3
	.1	±5%	8.0	5.0	10.0	5.0	P4593TB-ND	—	67.00	—	65.00/M	—	59.00/M	52.00/M	—	ECQ-B1H104JF3
	.12	±5%	11.0	5.0	11.6	5.0	P4594TB-ND	—	153.00	—	148.00/M	—	134.00/M	118.00/M	—	ECQ-B1H124JF3
	.15	±5%	11.0	5.0	12.0	5.0	P4595TB-ND	—	180.00	—	174.00/M	—	158.00/M	140.00/M	—	ECQ-B1H154JF3
	.18	±5%	11.0	5.5	12.4	5.0	P4596TB-ND	87.50	—	—	169.00/M	—	154.00/M	136.00/M	—	ECQ-B1H184JF3
	.22	±5%	11.0	6.0	13.0	5.0	P4597TB-ND	—	213.00	—	206.00/M	—	187.00/M	165.00/M	—	ECQ-B1H224JF3

Panasonic

V-Series ±5% Stacked Metallized Film Capacitors

Suitable for Replacement of Monolithic Ceramic Capacitors in Most Cases

FEATURES: • High volumetric efficiency • Low dissipation factor • Stacked and non-inductive construction • Operating temperature range: -40°C ~ 85°C • Temperature coefficientΔc/c: 200 ppm • Dissipation factor (maximum): 1.0% • Insulation resistance (25°C): 1000MΩ µF • Self-healing

APPLICATIONS: • Blocking, by-pass and coupling of DC • Pulse, logic and timing circuits • Light duty pulse forming • Filter and noise suppression

PANASONIC ECQ-V CROSS REFERENCE
Sprague: 453P/454P. **CSF Thompson:** IRD. **Siemens:** B32509.
(To convert millimeters to inches divide by 25.4.)

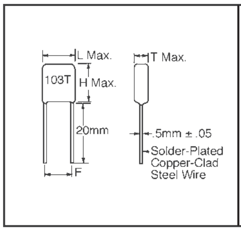

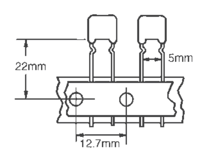

* All taped parts have 5mm lead space.

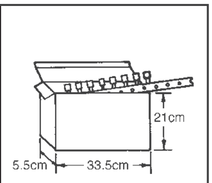

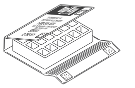

*** Panasonic V-Series Stacked Metallized Film Capacitors**

Digi-Key® V-Series Capacitors Kit

P4542-KIT-ND* **(50 Volt K)** **$49.95**
P4700-KIT-ND† **(100 Volt K)**.......... **$49.95**

Includes 10 each of those parts indicated below (* or †). 180 capacitors. 10 each of the values listed in the chart. Price includes a notebook style storage box with bin guide for easy storage and quick access.

Working Voltage	Cap. µF	Dimensions (mm)				Digi-Key Part No.	Pricing					Panasonic Part No.
		L	T	H	F		10	100	1,000	5,000	10,000	
Bulk Package												
50	0.01	7.3	3.2	5.0	5.0	P4513-ND*	.95	7.90	47.00	44.00/M	41.00/M	ECQ-V1H103JL
	0.012	7.3	3.2	5.0	5.0	P4514-ND	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H123JL
	0.015	7.3	3.2	5.0	5.0	P4515-ND*	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H153JL
	0.018	7.3	3.2	5.0	5.0	P4516-ND	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H183JL
	0.022	7.3	3.2	5.0	5.0	P4517-ND*	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1H223JL
	0.027	7.3	3.2	5.0	5.0	P4518-ND*	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1H273JL
	0.033	7.3	3.2	5.0	5.0	P4519-ND*	1.34	11.20	67.00	62.00/M	58.00/M	ECQ-V1H333JL
	0.039	7.3	3.2	5.0	5.0	P4520-ND	1.39	11.55	69.00	64.00/M	60.00/M	ECQ-V1H393JL
	0.047	7.3	3.2	5.0	5.0	P4521-ND*	1.01	8.40	50.00	47.00/M	44.00/M	ECQ-V1H473JL
	0.056	7.3	3.2	5.0	5.0	P4522-ND	1.01	8.40	50.00	47.00/M	44.00/M	ECQ-V1H563JL
	0.068	7.3	3.2	5.0	5.0	P4523-ND*	1.04	8.70	52.00	48.00/M	45.00/M	ECQ-V1H683JL
	0.082	7.3	3.6	5.0	5.0	P4524-ND*	1.08	8.98	54.00	50.00/M	47.00/M	ECQ-V1H823JL
	0.1	7.3	4.0	5.0	5.0	P4525-ND*	1.08	8.98	54.00	50.00/M	47.00/M	ECQ-V1H104JL
	0.12	7.3	4.0	5.0	5.0	P4526-ND	1.14	9.53	57.00	53.00/M	49.00/M	ECQ-V1H124JL
	0.15	10.2	3.4	9.0	7.5	P4538-ND	2.07	17.25	103.00	96.00/M	90.00/M	ECQ-V1H154JC
	0.15	7.3	4.4	5.5	5.0	P4665-ND*	1.18	9.80	59.00	54.00/M	51.00/M	ECQ-V1H154JL
	0.18	7.3	4.5	5.5	5.0	P4666-ND*	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1H184JL
	0.22	7.3	4.8	5.5	5.0	P4667-ND	1.34	11.20	67.00	62.00/M	58.00/M	ECQ-V1H224JL
	0.27	7.3	4.6	7.0	5.0	P4668-ND*	1.41	11.78	70.00	65.00/M	61.00/M	ECQ-V1H274JL
	0.33	7.3	5.2	7.0	5.0	P4669-ND*	1.51	12.60	75.00	70.00/M	65.00/M	ECQ-V1H334JL
	0.39	7.3	5.7	7.3	5.0	P4670-ND	1.65	13.73	82.00	76.00/M	71.00/M	ECQ-V1H394JL
	0.47	7.3	6.0	7.3	5.0	P4671-ND*	1.82	15.13	90.00	84.00/M	79.00/M	ECQ-V1H474JL
	0.56	7.3	5.8	10.0	5.0	P4672-ND*	2.15	17.93	107.00	100.00/M	93.00/M	ECQ-V1H564JL
	0.68	7.3	6.5	10.0	5.0	P4673-ND*	3.23	26.90	161.00	149.00/M	140.00/M	ECQ-V1H684JL
	0.82	7.3	6.8	10.0	5.0	P4674-ND*	3.23	26.90	161.00	149.00/M	140.00/M	ECQ-V1H824JL
	1.0	7.3	8.0	11.0	5.0	P4675-ND*	3.86	32.20	192.00	179.00/M	167.00/M	ECQ-V1H105JL
63	0.18	10.2	3.5	9.0	7.5	P4539-ND	1.23	10.25	61.00	57.00/M	53.00/M	ECQ-V1J184JM
	0.22	10.2	3.5	9.0	7.5	P4540-ND	1.33	11.05	66.00	61.00/M	57.00/M	ECQ-V1J224JM
	0.27	10.2	3.5	9.0	7.5	P4541-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-V1J274JM
	0.33	10.2	3.8	9.0	7.5	P4549-ND	1.49	12.43	74.00	69.00/M	65.00/M	ECQ-V1J334JM
	0.39	10.2	4.0	9.0	7.5	P4543-ND	1.63	13.55	81.00	75.00/M	70.00/M	ECQ-V1J394JM
	0.47	10.2	4.5	9.0	7.5	P4544-ND	1.79	14.93	89.00	83.00/M	78.00/M	ECQ-V1J474JM
	0.56	10.2	4.9	9.0	7.5	P4545-ND	2.12	17.70	106.00	98.00/M	92.00/M	ECQ-V1J564JM
	0.68	10.2	5.5	10.0	7.5	P4546-ND	3.18	26.53	158.00	147.00/M	138.00/M	ECQ-V1J684JM
	0.82	10.2	6.1	10.0	7.5	P4547-ND	3.18	26.53	158.00	147.00/M	138.00/M	ECQ-V1J824JM
	1.0	10.2	6.9	10.0	7.5	P4548-ND	3.81	31.75	190.00	176.00/M	165.00/M	ECQ-V1J105JM
100	0.01	7.3	3.2	7.0	5.0	P4713-ND†	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1103JM
	0.012	7.3	3.2	7.0	5.0	P4714-ND	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1123JM
	0.015	7.3	3.2	7.0	5.0	P4715-ND†	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1153JM
	0.018	7.3	3.2	7.0	5.0	P4716-ND	1.35	11.28	67.00	63.00/M	59.00/M	ECQ-V1183JM
	0.022	7.3	3.2	7.0	5.0	P4717-ND†	1.39	11.55	69.00	64.00/M	60.00/M	ECQ-V1223JM
	0.027	7.3	3.2	7.0	5.0	P4718-ND†	1.46	12.18	73.00	68.00/M	63.00/M	ECQ-V1273JM
	0.033	7.3	3.2	7.0	5.0	P4719-ND†	1.51	12.55	75.00	70.00/M	65.00/M	ECQ-V1333JM
	0.039	7.3	3.2	7.0	5.0	P4720-ND†	1.10	9.15	55.00	51.00/M	48.00/M	ECQ-V1393JM
	0.047	7.3	4.0	7.0	5.0	P4721-ND†	1.10	9.15	55.00	51.00/M	48.00/M	ECQ-V1473JM
	0.056	7.3	4.2	7.0	5.0	P4722-ND†	1.13	9.45	56.00	52.00/M	49.00/M	ECQ-V1563JM
	0.068	7.3	4.5	7.0	5.0	P4723-ND†	1.17	9.78	58.00	54.00/M	51.00/M	ECQ-V1683JM
	0.082	7.3	5.0	7.0	5.0	P4724-ND†	1.17	9.78	58.00	54.00/M	51.00/M	ECQ-V1823JM
	0.1	7.3	5.8	7.0	5.0	P4725-ND†	1.25	10.38	62.00	58.00/M	54.00/M	ECQ-V1104JM
	0.12	10.0	3.4	9.0	7.5	P4726-ND	1.28	10.65	64.00	59.00/M	55.00/M	ECQ-V1124JM
	0.15	10.0	3.8	9.0	7.5	P4727-ND†	1.35	11.28	67.00	63.00/M	59.00/M	ECQ-V1154JM
	0.18	10.0	4.0	9.0	7.5	P4728-ND†	1.46	12.18	73.00	68.00/M	63.00/M	ECQ-V1184JM
	0.22	10.0	4.3	9.0	7.5	P4729-ND†	1.54	12.80	76.00	71.00/M	66.00/M	ECQ-V1224JM
	0.27	10.0	5.2	10.0	7.5	P4730-ND†	1.64	13.68	82.00	76.00/M	71.00/M	ECQ-V1274JM
	0.33	10.0	5.9	10.0	7.5	P4731-ND†	1.79	14.93	89.00	83.00/M	78.00/M	ECQ-V1334JM
	0.39	10.0	7.5	11.0	7.5	P4732-ND†	1.97	16.43	98.00	91.00/M	85.00/M	ECQ-V1394JM
	0.47	10.0	8.1	11.0	7.5	P4733-ND†	2.34	19.48	116.00	108.00/M	101.00/M	ECQ-V1474JM

Working Voltage	Cap. µF	Dimensions (mm)				Digi-Key Part No.	Pricing						Panasonic Part No.
		L	T	H	F		1,000	2,000	5,000	6,000	10,000	26,000	
Ammo Box Package													
50	0.01	7.3	3.2	7.0	5.0	P4513TB-ND	—	57.00/M	—	53.00/M	49.00/M	46.00/M	ECQ-V1H103JL3
	0.012	7.3	3.2	7.0	5.0	P4514TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H123JL3
	0.015	7.3	3.2	7.0	5.0	P4515TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H153JL3
	0.018	7.3	3.2	7.0	5.0	P4516TB-ND	—	59.00/M	—	54.00/M	51.00/M	48.00/M	ECQ-V1H183JL3
	0.022	7.3	3.2	5.0	5.0	P4517TB-ND	—	44.00/M	—	41.00/M	38.00/M	36.00/M	ECQ-V1H223JL3
	0.027	7.3	3.2	7.0	5.0	P4518TB-ND	—	64.00/M	—	59.00/M	55.00/M	52.00/M	ECQ-V1H273JL3
	0.033	7.3	3.2	7.0	5.0	P4519TB-ND	—	67.00/M	—	62.00/M	58.00/M	55.00/M	ECQ-V1H333JL3
	0.039	7.3	3.2	5.0	5.0	P4520TB-ND	—	69.00/M	—	64.00/M	60.00/M	56.00/M	ECQ-V1H393JL3
	0.047	7.3	3.2	7.0	5.0	P4521TB-ND	—	50.00/M	—	47.00/M	44.00/M	41.00/M	ECQ-V1H473JL3
	0.056	7.3	3.2	5.0	5.0	P4522TB-ND	—	50.00/M	—	47.00/M	44.00/M	41.00/M	ECQ-V1H563JL3
	0.068	7.3	3.9	7.0	5.0	P4523TB-ND	—	52.00/M	—	48.00/M	45.00/M	42.00/M	ECQ-V1H683JL3
	0.082	7.3	4.1	7.0	5.0	P4524TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H823JL3
	0.1	7.3	4.4	7.0	5.0	P4525TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H104JL3
	0.12	7.3	4.7	7.0	5.0	P4526TB-ND	—	54.00/M	—	50.00/M	47.00/M	44.00/M	ECQ-V1H124JL3
	0.15	10.0	3.4	9.0	5.0	P4527TB-ND	59.00	—	54.00/M	—	51.00/M	—	ECQ-V1H154JL3
	0.18	10.0	3.5	9.0	5.0	P4528TB-ND	62.00	—	58.00/M	—	54.00/M	—	ECQ-V1H184JL3
	0.22	10.0	3.7	9.0	5.0	P4529TB-ND	67.00	—	62.00/M	—	58.00/M	—	ECQ-V1H224JL3
	0.27	10.0	4.0	9.0	5.0	P4530TB-ND	70.00	—	65.00/M	—	61.00/M	—	ECQ-V1H274JL3
	0.33	10.0	4.2	9.0	5.0	P4531TB-ND	75.00	—	70.00/M	—	65.00/M	—	ECQ-V1H334JL3
	0.39	10.0	4.9	9.0	5.0	P4532TB-ND	82.00	—	76.00/M	—	71.00/M	—	ECQ-V1H394JL3
	0.47	10.0	5.5	10.0	5.0	P4533TB-ND	90.00	—	84.00/M	—	79.00/M	—	ECQ-V1H474JL3
	0.56	10.0	6.1	10.0	5.0	P4534TB-ND	107.00	—	100.00/M	—	93.00/M	—	ECQ-V1H564JL3
	0.68	10.0	6.8	10.0	5.0	P4535TB-ND	161.00	—	149.00/M	—	140.00/M	—	ECQ-V1H684JL3
	0.82	7.3	6.8	10.0	5.0	P4536TB-ND	161.00	—	149.00/M	—	140.00/M	—	ECQ-V1H824JL3
	1.0	7.3	8.0	11.0	5.0	P4537TB-ND	192.00	—	179.00/M	—	167.00/M	—	ECQ-V1H105JL3

Panasonic®

E-Series Metallized Polyester Capacitors

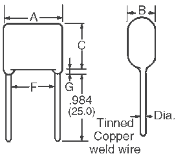

GENERAL SPECIFICATIONS: ELECTRICAL: Rated Voltage 100VDC, 250VDC, 400 V.D.C., 630 V.D.C. **Capacitance Tolerance** ±10% (K) **Insulation Resistance:** Less than 0.33µF: 9,000MΩ; More than 0.33µF: 3,000MΩ. **Dissipation Factor** = 1.0% at 1kHz **Withstanding Voltage** Rated Voltage X 1.5 (1 minute) **Operating Temperature** -40°C ~ 85°C

PANASONIC ECQ-E CROSS REFERENCES:
Sprague: DF/450P/451P/453P; **Westlake:** 160/168/185/167/184/186; **Mepco:** 713A1/719A1/C280; **TRW:** X601PE/X601CPE; **Packtron:** MF/RB; **Secor:** MMKS/MMKR/MMDR; **RIFA:** PHE353/PHE354; **Roederstein:** MKT1818/MKT1822; **WIMA:** MKS; **CSF Thompson:** MD/MC; **Siemens:** B325X-XX; **Rubycon:** MC/MN; **Nichicon:** DDXM.

Working Voltage	Cap. µF	Dimensions (mm)						Digi-Key Part No.	Pricing						Panasonic Part No.
		A	B	C	F	G	Dia.		1	10	100	1,000	5,000	10,000	
100	.1	12.0	4.0	7.4	10.0	1.0	.6	E1104-ND	.34	2.94	23.03	146.71	138.23/M	127.28/M	ECQ-E1104KZ
	.12	12.0	4.5	7.4	10.0	1.0	.6	E1124-ND	.35	3.03	23.74	151.20	142.46/M	131.17/M	ECQ-E1124KZ
	.15	12.0	4.0	9.5	10.0	1.0	.6	E1154-ND	.36	3.12	24.44	155.69	146.69/M	135.07/M	ECQ-E1154KZ
	.18	12.0	4.5	10.0	10.0	1.0	.6	E1184-ND	.39	3.30	25.85	164.67	155.15/M	142.86/M	ECQ-E1184KZ
	.22	12.0	5.0	10.5	10.0	1.0	.6	E1224-ND	.41	3.54	27.73	176.65	166.43/M	153.25/M	ECQ-E1224KZ
	.27	17.0	4.5	8.0	15.0	1.0	.6	E1274-ND	.46	3.90	30.55	194.61	183.36/M	168.84/M	ECQ-E1274KZ
	.33	17.0	4.5	10.0	15.0	1.0	.6	E1334-ND	.51	4.35	34.08	217.07	204.52/M	188.32/M	ECQ-E1334KZ
	.39	17.0	5.0	10.0	15.0	1.0	.6	E1394-ND	.53	4.50	35.25	224.55	211.57/M	194.81/M	ECQ-E1394KZ
	.47	17.0	5.5	11.0	15.0	1.0	.6	E1474-ND	.55	4.74	37.13	236.53	222.85/M	205.20/M	ECQ-E1474KZ
	.56	17.0	6.5	11.5	15.0	1.0	.6	E1564-ND	.64	5.46	42.77	272.45	256.70/M	236.37/M	ECQ-E1564KZ
	.68	17.0	7.0	12.0	15.0	1.0	.8	E1684-ND	.72	6.21	48.65	309.88	291.96/M	268.84/M	ECQ-E1684KZ
	.82	17.0	7.5	13.0	15.0	1.0	.8	E1824-ND	.79	6.81	53.35	339.82	320.17/M	294.81/M	ECQ-E1824KZ
	1.0	17.0	8.0	14.0	15.0	1.0	.8	E1105-ND	.86	7.41	58.05	369.76	348.38/M	320.78/M	ECQ-E1105KZ
	1.2	17.0	8.5	16.0	15.0	1.0	.8	E1125-ND	1.00	8.58	67.21	428.14	403.39/M	371.43/M	ECQ-E1125KZ
	1.5	25.5	7.5	14.5	22.5	1.0	.8	E1155-ND	1.17	10.02	78.49	500.00	471.09/M	433.77/M	ECQ-E1155KZ
	1.8	25.5	8.5	16.0	22.5	1.0	.8	E1185-ND	1.30	11.13	87.19	555.39	523.27/M	481.82/M	ECQ-E1185KZ
	2.2	25.5	9.5	16.5	22.5	1.0	.8	E1225-ND	1.47	12.60	98.70	628.74	592.38/M	545.46/M	ECQ-E1225KZ
	2.7	25.5	10.0	18.5	22.5	1.0	.8	E1275-ND	1.67	14.31	112.10	714.07	672.78/M	619.48/M	ECQ-E1275KZ
	3.3	25.5	10.0	19.0	22.5	1.0	.8	E1335-ND	2.13	18.24	142.88	910.18	857.55/M	789.61/M	ECQ-E1335KZ
	3.9	30.5	11.0	18.0	27.5	1.5	.8	E1395-ND	2.41	20.67	161.92	1031.43	971.79/M	894.81/M	ECQ-E1395KZ
	4.7	30.5	11.0	20.5	27.5	1.5	.8	E1475-ND	2.72	23.31	182.60	1163.17	1095.91/M	1009.09/M	ECQ-E1475KZ
	5.6	30.5	12.5	21.0	27.5	1.5	.8	E1565-ND	3.23	27.72	217.14	1383.23	1303.24/M	1200.00/M	ECQ-E1565KZ
	6.8	30.5	13.0	24.0	27.5	1.5	.8	E1685-ND	3.67	31.47	246.52	1570.35	1479.55/M	1362.34/M	ECQ-E1685KZ
	8.2	30.5	15.0	25.0	27.5	1.5	.8	E1825-ND	4.24	36.30	284.35	1811.37	1706.62/M	1571.43/M	ECQ-E1825KZ
	10.0	30.5	16.0	27.0	27.5	1.5	.8	E1106-ND	4.93	42.24	330.88	2107.78	1985.89/M	1828.57/M	ECQ-E1106KZ
250	.01	12.5	5.0	8.5	10.0	1.0	.6	E2103-ND*	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2103KS
	.012	12.5	5.0	8.5	10.0	1.0	.6	E2123-ND*	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2123KS
	.015	12.5	5.0	8.5	10.0	1.0	.6	E2153-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2153KS
	.018	12.5	5.0	8.5	10.0	1.0	.6	E2183-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2183KS
	.022	12.5	5.0	8.5	10.0	1.0	.6	E2223-ND*	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2223KS
	.027	12.5	5.0	8.5	10.0	1.0	.6	E2273-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2273KS
	.033	12.5	5.0	8.5	10.0	1.0	.6	E2333-ND*	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2333KS
	.039	12.5	5.0	8.5	10.0	1.0	.6	E2393-ND	.31	2.67	20.92	133.23	125.53/M	115.59/M	ECQ-E2393KS
	.047	12.5	5.0	8.0	10.0	1.0	.6	E2473-ND*	.26	2.19	17.16	109.28	102.97/M	94.81/M	ECQ-E2473KS
	.056	12.5	5.5	8.5	10.0	1.0	.6	E2563-ND	.32	2.76	21.62	137.72	129.76/M	119.48/M	ECQ-E2563KS
	.068	12.5	5.5	8.5	10.0	1.0	.6	E2683-ND*	.33	2.82	22.09	140.72	132.58/M	122.08/M	ECQ-E2683KS
	.082	12.5	5.5	10.0	10.0	1.0	.6	E2823-ND	.34	2.94	23.03	146.71	138.23/M	127.28/M	ECQ-E2823KS
	.10	12.5	5.5	10.5	10.0	1.0	.6	E2104-ND*	.26	2.20	17.23	109.73	103.39/M	95.20/M	ECQ-E2104KS
	.12	17.5	5.5	10.0	15.0	1.0	.8	E2124-ND	.40	3.42	26.79	170.66	160.79/M	148.06/M	ECQ-E2124KS
	.15	17.5	6.0	10.5	15.0	1.0	.8	E2154-ND*	.43	3.72	29.14	185.63	174.90/M	161.04/M	ECQ-E2154KS
	.18	17.5	6.0	10.5	15.0	1.0	.8	E2184-ND	.46	3.90	30.55	194.61	183.36/M	168.84/M	ECQ-E2184KS
	.22	17.5	6.0	11.0	15.0	1.0	.8	E2224-ND*	.38	3.30	25.83	164.52	155.01/M	142.73/M	ECQ-E2224KS
	.27	23.0	6.0	10.5	20.0	1.0	.8	E2274-ND	.55	4.71	36.90	235.03	221.44/M	203.90/M	ECQ-E2274KS
	.33	23.0	6.0	11.0	20.0	1.0	.8	E2334-ND*	.60	5.16	40.42	257.48	242.60/M	223.38/M	ECQ-E2334KS
	.39	23.0	6.5	11.5	20.0	1.0	.8	E2394-ND	.65	5.55	43.48	276.95	260.93/M	240.26/M	ECQ-E2394KS
	.47	23.0	7.0	12.0	20.0	1.0	.8	E2474-ND*	.69	5.94	46.53	296.41	279.27/M	257.15/M	ECQ-E2474KS
	.56	23.0	7.5	13.0	20.0	1.0	.8	E2564-ND	.76	6.51	51.00	324.85	306.07/M	281.82/M	ECQ-E2564KS
	.68	23.0	8.5	14.0	20.0	1.0	.8	E2684-ND	.84	7.17	56.17	357.78	337.10/M	310.39/M	ECQ-E2684KS
	.82	31.0	7.5	13.0	27.5	1.0	.8	E2824-ND	.92	7.89	61.81	393.71	370.95/M	341.56/M	ECQ-E2824KS
	1.0	31.0	8.5	14.0	27.5	1.0	.8	E2105-ND*	.98	8.37	65.57	417.66	393.51/M	362.34/M	ECQ-E2105KS
	1.2	31.0	8.5	16.0	27.5	1.0	.8	E2125-ND*	1.07	9.18	71.91	458.08	431.60/M	397.41/M	ECQ-E2125KS
	1.5	31.0	9.5	17.0	27.5	1.0	.8	E2155-ND*	1.38	11.82	92.59	589.82	555.71/M	511.69/M	ECQ-E2155KS
	1.8	31.0	9.5	18.5	27.5	1.0	.8	E2185-ND	1.66	14.25	111.63	711.08	669.96/M	616.89/M	ECQ-E2185KS
	2.2	31.0	10.5	19.5	27.5	1.0	.8	E2225-ND*	1.67	14.31	112.10	714.07	672.78/M	619.48/M	ECQ-E2225KS
400	.01	14.0	5.0	8.5	10.5	1.0	.6	E4103-ND	.42	3.60	28.20	179.64	169.26/M	155.85/M	ECQ-E4103KZ
	.012	14.0	5.5	8.5	10.5	1.0	.6	E4123-ND	.42	3.60	28.20	179.64	169.26/M	155.85/M	ECQ-E4123KZ
	.015	14.0	5.0	8.5	10.5	1.0	.6	E4153-ND	.43	3.72	29.14	185.63	174.90/M	161.04/M	ECQ-E4153KZ
	.018	14.0	5.5	8.5	10.5	1.0	.6	E4183-ND	.43	3.72	29.14	185.63	174.90/M	161.04/M	ECQ-E4183KZ
	.022	14.0	5.5	10.0	10.5	1.0	.6	E4223-ND	.44	3.75	29.38	187.13	176.31/M	162.34/M	ECQ-E4223KZ
	.027	14.0	5.5	10.5	10.5	1.0	.6	E4273-ND	.47	3.99	31.26	199.10	187.59/M	172.73/M	ECQ-E4273KZ
	.033	14.0	6.0	11.0	10.5	1.0	.6	E4333-ND	.49	4.20	32.90	209.58	197.46/M	181.82/M	ECQ-E4333KZ
	.039	14.0	6.5	11.5	10.5	1.0	.6	E4393-ND	.50	4.26	33.37	212.57	200.29/M	184.42/M	ECQ-E4393KZ
	.047	14.0	7.0	12.0	10.5	1.0	.6	E4473-ND	.50	4.26	33.37	212.57	200.29/M	184.42/M	ECQ-E4473KZ
	.056	17.0	6.5	11.0	13.5	1.0	.6	E4563-ND	.54	4.59	35.96	229.04	215.80/M	198.71/M	ECQ-E4563KZ
	.068	17.0	7.0	12.0	13.5	1.0	.6	E4683-ND	.57	4.86	38.07	242.51	228.49/M	210.39/M	ECQ-E4683KZ
	.082	17.0	7.5	12.5	13.5	1.0	.6	E4823-ND	.59	5.07	39.72	252.99	238.37/M	219.48/M	ECQ-E4823KZ
	.10	17.0	7.5	14.5	13.5	1.0	.6	E4104-ND	.58	4.98	39.01	248.50	234.14/M	215.59/M	ECQ-E4104KZ
	.12	17.0	8.5	15.5	13.5	1.0	.6	E4124-ND	.66	5.67	44.42	282.93	266.58/M	245.46/M	ECQ-E4124KZ
	.15	17.0	9.0	16.5	13.5	1.0	.8	E4154-ND	.72	6.21	48.65	309.88	291.96/M	268.84/M	ECQ-E4154KZ
	.18	17.0	10.0	17.0	13.5	1.0	.8	E4184-ND	.77	6.63	51.94	330.84	311.71/M	287.02/M	ECQ-E4184KZ
	.22	24.5	8.5	15.5	20.5	1.0	.8	E4224-ND	.83	7.11	55.70	354.79	334.28/M	307.80/M	ECQ-E4224KZ
	.27	24.5	9.0	16.5	20.5	1.0	.8	E4274-ND	.92	7.86	61.57	392.21	369.54/M	340.26/M	ECQ-E4274KZ
	.33	24.5	9.5	17.0	20.5	1.0	.8	E4334-ND	.99	8.46	66.27	422.15	397.75/M	366.24/M	ECQ-E4334KZ
	.39	29.5	9.5	16.5	25.5	1.5	.8	E4394-ND	1.07	9.18	71.91	458.08	431.60/M	397.41/M	ECQ-E4394KZ
	.47	29.5	10.0	17.5	25.5	1.5	.8	E4474-ND	1.16	9.90	77.55	494.01	465.45/M	428.58/M	ECQ-E4474KZ
	.56	29.5	11.0	18.0	25.5	1.5	.8	E4564-ND	1.26	10.80	84.60	538.92	507.76/M	467.54/M	ECQ-E4564KZ
	.68	29.5	12.0	19.0	25.5	1.5	.8	E4684-ND	1.41	12.09	94.71	603.29	568.41/M	523.38/M	ECQ-E4684KZ
	.82	29.5	13.0	21.0	25.5	1.5	.8	E4824-ND	1.54	13.20	103.40	658.68	620.59/M	571.43/M	ECQ-E4824KZ
	1.0	29.5	15.0	22.0	25.5	1.5	.8	E4105-ND	1.68	14.43	113.04	720.06	678.42/M	624.68/M	ECQ-E4105KZ
	1.2	29.5	15.0	25.0	25.5	1.5	.8	E4125-ND	2.38	20.40	159.80	1017.96	959.10/M	883.12/M	ECQ-E4125KZ
	1.5	43.5	13.0	22.0	38.5	1.5	.8	E4155-ND	2.56	21.96	172.02	1095.80	1032.44/M	950.65/M	ECQ-E4155KZ
	1.8	43.5	14.5	24.0	38.5	1.5	.8	E4185-ND	3.03	26.01	203.75	1297.90	1222.85/M	1125.98/M	ECQ-E4185KZ
	2.2	43.5	16.0	25.5	38.5	1.5	.8	E4225-ND	3.47	29.70	232.65	1482.03	1396.33/M	1285.72/M	ECQ-E4225KZ
630	.01	14.0	5.5	8.5	10.5	1.0	.6	E6103-ND	.45	3.87	30.32	193.11	181.95/M	167.54/M	ECQ-E6103KZ
	.015	14.0	6.0	10.5	10.5	1.0	.6	E6153-ND	.48	4.14	32.43	206.59	194.64/M	179.23/M	ECQ-E6153KZ
	.018	14.0	6.0	11.0	10.5	1.0	.6	E6183-ND	.50	4.26	33.37	212.57	200.29/M	184.42/M	ECQ-E6183KZ
	.022	14.0	6.5	12.0	10.5	1.0	.6	E6223-ND	.52	4.44	34.78	221.56	208.75/M	192.21/M	ECQ-E6223KZ
	.027	17.0	5.5	12.5	13.5	1.0	.6	E6273-ND	.54	4.59	35.96	229.04	215.80/M	198.71/M	ECQ-E6273KZ
	.033	17.0	6.0	12.0	13.5	1.0	.6	E6333-ND	.55	4.74	37.13	236.53	222.85/M	205.20/M	ECQ-E6333KZ
	.039	17.0	6.5	12.0	13.5	1.0	.6	E6393-ND	.57	4.86	38.07	242.51	228.49/M	210.39/M	ECQ-E6393KZ
	.047	17.0	7.0	13.5	13.5	1.0	.6	E6473-ND	.58	4.98	39.01	248.50	234.14/M	215.59/M	ECQ-E6473KZ
	.056	17.0	7.5	14.0	13.5	1.0	.6	E6563-ND	.62	5.34	41.83	266.47	251.06/M	231.17/M	ECQ-E6563KZ
	.068	17.0	8.5	15.0	13.5	1.0	.6	E6683-ND	.67	5.76	45.12	287.42	270.81/M	249.35/M	ECQ-E6683KZ
	.082	17.0	9.0	16.0	13.5	1.0	.8	E6823-ND	.72	6.15	48.18	306.89	289.14/M	266.24/M	ECQ-E6823KZ
	.10	24.5	7.0	14.0	20.5	1.5	.8	E6104-ND	.77	6.57	51.47	327.84	308.89/M	284.42/M	ECQ-E6104KZ
	.12	24.5	8.5	15.5	20.5	1.5	.8	E6124-ND	.85	7.26	56.87	362.27	341.33/M	314.29/M	ECQ-E6124KZ
	.15	24.5	9.0	16.5	20.5	1.5	.8	E6154-ND	.95	8.13	63.69	405.69	382.23/M	351.95/M	ECQ-E6154KZ
	.18	24.5	10.0	17.0	20.5	1.5	.8	E6184-ND	1.01	8.67	67.92	432.63	407.62/M	375.33/M	ECQ-E6184KZ
	.22	29.5	9.5	17.0	25.5	1.5	.8	E6224-ND	1.10	9.45	74.03	471.56	444.29/M	409.10/M	ECQ-E6224KZ
	.27	29.5	10.5	17.5	25.5	1.5	.8	E6274-ND	1.24	10.65	83.43	531.44	500.71/M	461.04/M	ECQ-E6274KZ
	.33	29.5	11.5	18.5	25.5	1.5	.8	E6334-ND	1.40	12.00	94.00	598.80	564.18/M	519.48/M	ECQ-E6334KZ
	.39	29.5	12.0	19.5	25.5	1.5	.8	E6394-ND	1.52	13.05	102.23	651.20	613.54/M	564.94/M	ECQ-E6394KZ
	.47	29.5	13.0	20.5	25.5	1.5	.8	E6474-ND	1.64	14.07	110.22	702.09	661.50/M	609.09/M	ECQ-E6474KZ
	.56	29.5	15.0	21.5	25.5	1.5	.8	E6564-ND	1.95	16.68	130.66	832.33	784.20/M	722.08/M	ECQ-E6564KZ
	.68	43.5	12.5	19.5	38.5	1.5	.8	E6684-ND	2.52	21.60	169.20	1077.84	1015.51/M	935.07/M	ECQ-E6684KZ
	.82	43.5	14.0	21.0	38.5	1.5	.8	E6824-ND	2.77	23.70	185.65	1182.63	1114.24/M	1025.98/M	ECQ-E6824KZ
	1.0	43.5	14.5	24.0	38.5	1.5	.8	E6105-ND	3.36	28.77	225.37	1435.62	1352.61/M	1245.46/M	ECQ-E6105KZ
	1.2	43.5	16.0	25.5	38.5	1.5	.8	E6125-ND	3.53	30.24	236.88	1508.98	1421.72/M	1309.09/M	ECQ-E6125KZ
	1.5	43.5	18.5	27.0	38.5	1.5	.8	E6155-ND	4.31	36.96	289.52	1844.30	1737.65/M	1600.00/M	ECQ-E6155KZ

* **E-KIT-ND** ***Digi-Key*® *E-Series Capacitors Kit*** 10 each of all values denoted (except #E2104 which has 30 pcs.) - 170 total pieces. Notebook style storage case **$59.95**

EPCOS

Metallized Polypropylene Film Capacitors

MKP Series

Construction: • Dielectric: polypropylene • Stacked and wound technology • Plastic case (UL 94 V-0) • Epoxy resin sealing

Features: • Very high pulse strength • Very good self-healing properties • Small dimensions • High contact reliability

Typical Applications: • Energy-saving lamps • TV S-correction • High pulse load applications • AC applications **Terminals:** • Parallel wire leads, tinned **Technical Data:** • Lower category temperature T_{min}: -55°C • Upper category temperature T_{max}: 100°C **Service Life:** 200,000 h

Dimensions (mm)	
Lead spacing (e)	ød
7.5	0.5
10.0	0.5*, 0.6
15.0	0.8

* 0.5 for capacitor width b = 4

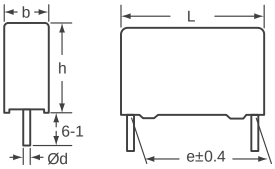

WV	WV	Cap	Toler-	Dimensions (mm)				Digi-Key	Pricing			Epcos
(DC)	(AC)	(µF)	ance	b	h	L	e	Part No.	1	10	100	Part No.
160	90	0.033	±5%	4.0	8.5	10.0	7.5	495-1271-ND	.36	2.64	18.83	B32620A5333J
		0.047	±5%	4.0	7.0	13.0	10.0	495-1272-ND	.43	3.14	22.40	B32621A5473J
		0.068	±5%	5.0	10.5	10.0	7.5	495-1274-ND	.45	3.29	23.53	B32620A5683J
		0.068	±5%	4.0	9.0	13.0	10.0	495-1273-ND	.45	3.29	23.53	B32621A5683J
		0.10	±5%	5.0	10.5	10.0	7.5	495-1275-ND	.47	3.43	24.50	B32620A5104J
		0.10	±5%	5.0	11.0	13.0	10.0	495-1375-ND	.54	3.96	28.25	B32621A5104J
		0.15	±5%	6.0	12.0	10.3	7.5	495-1276-ND	.45	3.39	24.86	B32620A5154J
		0.15	±5%	5.0	11.0	13.0	10.0	495-1277-ND	.57	4.21	30.95	B32621A5154J
		0.22	±5%	6.0	12.0	13.0	10.0	495-1278-ND	.65	4.82	35.41	B32621A5224J
250	140	0.0022	±5%	4.0	7.0	13.0	10.0	495-1279-ND	.32	2.39	17.10	B32621A3222J
		0.0033	±5%	4.0	9.0	13.0	10.0	495-1280-ND	.38	2.77	19.80	B32621A3332J
		0.0047	±5%	4.0	9.0	13.0	10.0	495-1281-ND	.38	2.77	19.80	B32621A3472J
		0.0068	±5%	4.0	9.0	13.0	10.0	495-1282-ND	.38	2.77	19.80	B32621A3682J
		0.01	±5%	4.0	9.0	13.0	10.0	495-1283-ND	.37	2.70	19.25	B32621A3103J
		0.015	±5%	4.0	9.0	13.0	10.0	495-1284-ND	.38	2.82	20.15	B32621A3153J
		0.022	±5%	4.0	8.5	10.0	7.5	495-1286-ND	.35	2.56	18.28	B32620A3223J
		0.022	±5%	4.0	9.0	13.0	10.0	495-1285-ND	.40	2.96	21.18	B32621A3223J
		0.033	±5%	4.0	8.5	10.0	7.5	495-1288-ND	.36	2.64	18.85	B32620A3333J
		0.033	±5%	4.0	9.0	13.0	10.0	495-1287-ND	.42	3.13	22.35	B32621A3333J
		0.047	±5%	5.0	10.5	10.0	7.5	495-1290-ND	.39	2.86	20.43	B32620A3473J
		0.047	±5%	4.0	9.0	13.0	10.0	495-1289-ND	.45	3.32	23.73	B32621A3473J
		0.068	±5%	5.0	10.5	10.0	7.5	495-1291-ND	.42	3.13	22.35	B32620A3683J
		0.068	±5%	5.0	11.0	13.0	10.0	495-1292-ND	.49	3.59	25.68	B32621A3683J
		0.10	±5%	6.0	12.0	10.3	7.5	495-1294-ND	.50	3.70	26.45	B32620A3104J
	160	0.15	±5%	5.0	10.5	18.0	15.0	495-1295-ND	.38	2.81	20.66	B32652A3154J
		0.22	±5%	6.0	11.0	18.0	15.0	495-1296-ND	.41	3.06	22.49	B32652A3224J
		0.33	±5%	7.0	12.5	18.0	15.0	495-1297-ND	.48	3.58	26.32	B32652A3334J
		0.47	±5%	8.5	14.5	18.0	15.0	495-1298-ND	.52	3.85	28.29	B32652A3474J
		0.68	±5%	9.0	17.5	18.0	15.0	495-1299-ND	.66	4.90	36.00	B32652A3684J
400	200	0.0068	±5%	4.0	8.5	10.0	7.5	495-1300-ND	.35	2.56	18.28	B32620A4682J
		0.01	±5%	4.0	8.5	10.0	7.5	495-1301-ND	.35	2.56	18.28	B32620A4103J
		0.01	±5%	4.0	9.0	13.0	10.0	495-1302-ND	.39	2.86	20.43	B32621A4103J
		0.015	±5%	5.0	10.5	10.0	7.5	495-1304-ND	.37	2.75	19.65	B32620A4153J
		0.015	±5%	4.0	9.0	13.0	10.0	495-1303-ND	.40	2.96	21.18	B32621A4153J
		0.022	±5%	5.0	10.5	10.0	7.5	495-1305-ND	.40	2.91	20.80	B32620A4223J
		0.022	±5%	5.0	11.0	13.0	10.0	495-1306-ND	.44	3.27	23.33	B32621A4223J
		0.033	±5%	6.0	12.0	10.3	7.5	495-1308-ND	.47	3.43	24.50	B32620A4333J
		0.033	±5%	5.0	11.0	13.0	10.0	495-1307-ND	.49	3.63	25.95	B32621A4333J
		0.047	±5%	6.0	12.0	13.0	10.0	495-1309-ND	.54	4.00	28.58	B32621A4473J
		0.068	±5%	5.0	10.5	18.0	15.0	495-1310-ND	.45	3.32	23.73	B32652A4683J
		0.10	±5%	5.0	10.5	18.0	15.0	495-1311-ND	.51	3.76	26.83	B32652A4104J
		0.15	±5%	6.0	11.0	18.0	15.0	495-1312-ND	.49	3.64	26.70	B32652A4154J
		0.22	±5%	7.0	12.5	18.0	15.0	495-1313-ND	.50	3.76	27.59	B32652A4224J
		0.33	±5%	8.5	14.5	18.0	15.0	495-1314-ND	.53	3.98	29.23	B32652A4334J
		0.47	±5%	9.0	17.5	18.0	15.0	495-1315-ND	.67	4.95	36.38	B32652A4474J
630	400	0.0015	±5%	4.0	8.5	10.0	7.5	495-1316-ND	.33	2.42	17.30	B32620A6152J
		0.0022	±5%	4.0	8.5	10.0	7.5	495-1318-ND	.33	2.42	17.30	B32620A6222J
		0.0022	±5%	4.0	7.0	13.0	10.0	495-1317-ND	.37	2.72	19.45	B32621A6222J
		0.0033	±5%	4.0	8.5	10.0	7.5	495-1319-ND	.35	2.56	18.28	B32620A6332J
		0.0033	±5%	4.0	9.0	13.0	10.0	495-1320-ND	.38	2.78	19.83	B32621A6332J
		0.0047	±5%	4.0	8.5	10.0	7.5	495-1322-ND	.37	2.75	19.65	B32620A6472J
		0.0047	±5%	4.0	9.0	13.0	10.0	495-1321-ND	.40	2.91	20.80	B32621A6472J
630	400	0.0068	±5%	5.0	10.5	10.0	7.5	495-1323-ND	.40	2.91	20.80	B32620A6682J
		0.0068	±5%	4.0	9.0	13.0	10.0	495-1324-ND	.44	3.21	22.95	B32621A6682J
		0.01	±5%	5.0	10.5	10.0	7.5	495-1325-ND	.44	3.21	22.95	B32620A6103J
		0.01	±5%	4.0	9.0	13.0	10.0	495-1326-ND	.48	3.54	25.28	B32621A6103J
		0.015	±5%	6.0	12.0	10.3	7.5	495-1327-ND	.53	3.89	27.80	B32620A6153J
		0.015	±5%	5.0	11.0	13.0	10.0	495-1328-ND	.58	4.29	30.63	B32621A6153J
		0.022	±5%	6.0	12.0	13.0	10.0	495-1329-ND	.54	4.03	29.61	B32621A6223J
	250	0.033	±5%	5.0	10.5	18.0	15.0	495-1330-ND	.49	3.62	25.85	B32652A6333J
		0.047	±5%	5.0	10.5	18.0	15.0	495-1331-ND	.52	3.81	27.23	B32652A6473J
		0.068	±5%	6.0	11.0	18.0	15.0	495-1332-ND	.49	3.68	27.05	B32652A6683J
		0.10	±5%	7.0	12.5	18.0	15.0	495-1333-ND	.52	3.86	28.34	B32652A6104J
		0.15	±5%	8.5	14.5	18.0	15.0	495-1334-ND	.64	4.73	34.73	B32652A6154J
		0.22	±5%	9.0	17.5	18.0	15.0	495-1335-ND	.67	4.95	36.38	B32652A6224J
1000	250	0.01	±5%	5.0	10.5	18.0	15.0	495-1349-ND	.45	3.32	23.72	B32652A0103J
		0.015	±5%	5.0	10.5	18.0	15.0	495-1351-ND	.46	3.38	24.11	B32652A0153J
		0.022	±5%	5.0	10.5	18.0	15.0	495-1352-ND	.49	3.62	25.86	B32652A0223J
		0.033	±5%	6.0	11.0	18.0	15.0	495-1353-ND	.54	3.97	28.39	B32652A0333J
		0.047	±5%	7.0	12.5	18.0	15.0	495-1354-ND	.54	4.03	29.61	B32652A0473J
		0.068	±5%	8.5	14.5	18.0	15.0	495-1355-ND	.57	4.22	31.02	B32652A0683J
		0.10	±5%	9.0	17.5	18.0	15.0	495-1356-ND	.66	4.88	35.82	B32652A0104J
	500	0.0015	±5%	4.0	8.5	10.0	7.5	495-1338-ND	.34	2.51	17.90	B32620A152J
		0.0022	±5%	4.0	8.5	10.0	7.5	495-1339-ND	.35	2.56	18.28	B32620A222J
		0.0022	±5%	4.0	7.0	13.0	10.0	495-1340-ND	.40	2.91	20.80	B32621A222J
		0.0033	±5%	5.0	10.5	10.0	7.5	495-1343-ND	.37	2.70	19.25	B32620A332J
		0.0033	±5%	4.0	9.0	13.0	10.0	495-1342-ND	.40	2.97	21.20	B32621A332J
		0.0047	±5%	5.0	10.5	10.0	7.5	495-1346-ND	.40	2.91	20.80	B32620A472J
		0.0047	±5%	4.0	9.0	13.0	10.0	495-1344-ND	.47	3.43	24.50	B32621A472J
		0.0068	±5%	6.0	12.0	10.3	7.5	495-1347-ND	.48	3.54	25.28	B32620A682J
		0.0068	±5%	5.0	11.0	13.0	10.0	495-1348-ND	.49	3.64	26.00	B32621A682J
		0.01	±5%	6.0	12.0	13.0	10.0	495-1350-ND	.56	4.11	29.35	B32621A103J
	600	0.00047	±5%	4.0	8.5	10.0	7.5	495-1336-ND	.51	3.49	24.59	B32620J471J
		0.00068	±5%	5.0	10.5	10.0	7.5	495-1337-ND	.34	2.52	18.00	B32620J681J
		0.0022	±5%	5.0	10.5	10.0	7.5	495-1341-ND	.41	3.00	21.45	B32620J222J
		0.0047	±5%	6.0	12.0	10.3	7.5	495-1345-ND	.42	3.13	22.36	B32620J472J
1250	500	0.0068	±5%	5.0	10.5	18.0	15.0	495-1357-ND	.48	3.57	25.48	B32652A7682J
		0.01	±5%	6.0	11.0	18.0	15.0	495-1358-ND	.50	3.73	27.42	B32652A7103J
		0.015	±5%	7.0	12.5	18.0	15.0	495-1359-ND	.56	4.18	30.71	B32652A7153J
		0.022	±5%	8.5	14.5	18.0	15.0	495-1360-ND	.60	4.48	32.90	B32652A7223J
		0.033	±5%	9.0	17.5	18.0	15.0	495-1361-ND	.67	4.95	36.38	B32652A7333J
1600	500	0.0033	±5%	5.0	10.5	18.0	15.0	495-1367-ND	.40	2.97	21.20	B32652A1332J
		0.0047	±5%	6.0	11.0	18.0	15.0	495-1369-ND	.43	3.19	22.75	B32652A1472J
		0.0068	±5%	7.0	12.5	18.0	15.0	495-1371-ND	.43	3.24	23.76	B32652A1682J
		0.01	±5%	8.5	14.5	18.0	15.0	495-1373-ND	.54	4.03	29.61	B32652A1103J
		0.015	±5%	9.0	17.5	18.0	15.0	495-1374-ND	.66	4.88	35.81	B32652A1153J
	700	0.0022	±5%	5.0	10.5	18.0	15.0	495-1364-ND	.48	3.58	26.32	B32652J1222J
		0.0033	±5%	6.0	11.0	18.0	15.0	495-1366-ND	.53	3.98	29.23	B32652J1332J
		0.0047	±5%	7.0	12.5	18.0	15.0	495-1368-ND	.57	4.23	31.07	B32652J1472J
		0.0068	±5%	8.5	14.5	18.0	15.0	495-1370-ND	.60	4.48	32.90	B32652J1682J
		0.01	±5%	9.0	17.5	18.0	15.0	495-1372-ND	.67	4.95	36.38	B32652J1103J
2000	700	0.001	±5%	5.0	10.5	18.0	15.0	495-1376-ND	.50	3.68	26.25	B32652A2102J
		0.0015	±5%	6.0	11.0	18.0	15.0	495-1377-ND	.52	3.81	27.23	B32652A2152J
		0.0022	±5%	7.0	12.5	18.0	15.0	495-1378-ND	.56	4.11	29.35	B32652A2222J
		0.0033	±5%	8.5	14.5	18.0	15.0	495-1379-ND	.58	4.27	30.53	B32652A2332J

EMI Suppression Capacitors

X2 Series

Construction: • Dielectric: polypropylene (MKP) • Plastic case (UL 94V-0) • Epoxy resin sealing (UL 94V-0)
Features: • Very small dimensions • Self-healing properties
Terminals: • Parallel wire leads (lead-free tinned)
Technical Data: • Maximum Operating Temperature: 125°C (for $C_R \leq 1uF$ with A/V/T version) 110°C (for $C_R > 1uF$ or C/D version) • Maximum continuous AC voltage: 310V (50/60Hz) • Maximum continuous DC voltage: 760V (630V for C/D version)

Marks of Conformity	Standards	Certificate
ENEC 10	EN 132400 / IEC 384-14	40005536/40010694
UR	UL 1414 / UL 1283	E97863 / E157153
cUR	CSA C22.2 No.1 / No.8	E97863 / E157153 (approved by UL)
CQC	CQC (GB/T 14472-1998)	CQC001007-14859

Dimensions (mm)		
Lead spacing (e ± 4)	Lead Diameter $Ød_1$	Type
10.0	0.6	B32921
15.0	0.8	B32922
22.5	0.8	B32923
27.5	0.8	B32924
37.5	1.0	B32926

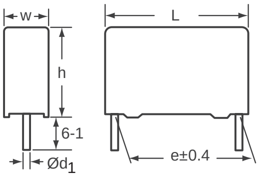

WV	Cap	Toler-	Dimensions (mm)				Digi-Key	Pricing			Epcos
(AC)	(µF)	ance	w	h	L	e	Part No.	1	10	100	Part No.
305VAC	.01	20	4.0	9.0	13.0	10.0	495-2316-ND	.31	2.29	16.33	B32921C3103M
	.022	20	4.0	9.0	13.0	10.0	495-2317-ND	.31	2.29	16.33	B32921C3223M
	.047	20	6.0	12.0	13.0	10.0	495-1614-ND	.32	2.18	15.40	B32921A2473M
	.068	20	6.0	12.0	13.0	10.0	495-1615-ND	.34	2.30	16.25	B32921A2683M
	.068	20	6.0	11.0	18.0	15.0	495-1616-ND	.34	2.30	16.25	B32922A2683M
	.10	20	6.0	12.0	13.0	10.0	495-1617-ND	.29	2.12	15.18	B32921A2104M
	.10	20	6.0	12.0	13.0	10.0	495-2318-ND	.31	2.29	16.33	B32921C3104M
	.10	20	5.0	10.5	18.0	15.0	495-2319-ND	.29	2.12	15.18	B32922C3104M
	.10	20	6.0	11.0	18.0	15.0	495-1881-ND	.38	2.55	17.96	B32922A2104M
	.15	20	7.0	12.5	18.0	15.0	495-1618-ND	.35	2.56	18.28	B32922A2154M
	.22	20	7.0	12.5	18.0	15.0	495-2320-ND	.45	3.32	23.73	B32922C3224M
	.22	20	8.0	14.0	18.0	15.0	495-1882-ND	.45	3.32	23.73	B32922T2224M
	.22	20	8.5	14.5	18.0	15.0	495-1619-ND	.45	3.32	23.73	B32922A2224M
	.33	20	8.0	14.0	18.0	15.0	495-2321-ND	.56	4.14	29.55	B32922C3334M
	.33	20	9.0	17.5	18.0	15.0	495-1620-ND	.56	4.14	29.55	B32922A2334M
	.33	20	8.5	16.5	26.5	22.5	495-1621-ND	.55	4.08	29.99	B32923A2334M
	.47	20	9.0	17.5	18.0	15.0	495-2322-ND	.63	4.63	33.05	B32922C3474M
	.47	20	8.5	16.5	26.5	22.5	495-1622-ND	.57	4.23	31.07	B32923A2474M
305VAC	.68	20	11.0	18.5	18.0	15.0	495-2323-ND	.99	7.29	52.10	B32922C3684M
	.68	20	10.5	18.5	26.5	22.5	495-1623-ND	.90	6.67	48.97	B32923A2684M
	1.0	20	12.0	22.0	26.5	22.5	495-1883-ND	1.29	9.71	72.81	B32923A2105M
	1.0	20	11.0	20.5	26.5	22.5	495-2324-ND	1.39	10.36	76.05	B32923C3105M
	1.0	10	11.0	21.0	31.5	27.5	495-2074-ND	1.11	8.33	62.48	B32924A2105K
	1.5	20	12.0	22.0	26.5	22.5	495-1884-ND	1.74	13.07	98.01	B32923C3155M
	1.5	10	12.5	21.5	31.5	27.5	495-1886-ND	1.83	13.72	102.89	B32924C3155K
	2.2	20	14.5	29.5	26.5	22.5	495-1885-ND	2.18	16.49	124.44	B32923C3225M
	2.2	20	14.0	24.5	31.5	27.5	495-1887-ND	2.18	16.49	124.44	B32924C3225M
	2.2	20	14.0	25.0	41.5	37.5	495-1892-ND	2.50	18.96	143.06	B32926C3225M
	3.3	20	18.0	27.5	31.5	27.5	495-1888-ND	5.64	42.67	322.00	B32924C3335M
	3.3	20	16.0	28.5	41.5	37.5	495-1893-ND	6.26	47.41	357.78	B32926C3335M
	4.7	20	18.0	33.0	31.5	27.5	495-1889-ND	7.11	53.80	406.00	B32924C3475M
	4.7	20	18.0	32.5	41.5	37.5	495-1894-ND	7.89	59.77	451.12	B32926C3475M
	5.6	20	22.0	36.5	31.5	27.5	495-1890-ND	8.25	62.45	471.30	B32924C3565M
	5.6	20	18.0	32.5	41.5	37.5	495-1895-ND	8.25	62.45	471.30	B32926C3565M
	6.8	20	20.0	39.5	41.5	37.5	495-1896-ND	9.56	72.35	546.00	B32926C3685M
	8.2	10	28.0	42.5	41.5	37.5	495-1897-ND	10.50	79.50	600.00	B329526C3825K
	10	20	28.0	42.5	41.5	37.5	495-1891-ND	11.55	87.45	660.00	B32926C3106M

EPCOS

Metallized Polyester Film Capacitors

MKT Series

Construction: • Dielectric: polyethylene terephthalate (polyester) • Stacked and wound capacitor technology • Plastic case (UL 94V-0) • Epoxy resin sealing

Features: • High pulse strength • High contact reliability

Terminals: • Parallel wire leads, tinned

Technical Data: • Lower category temperature T_{min}: -55°C • Upper category temperature T_{max}: 100°C (125°C for 1000h and V_C= $0.5V_R$) • Service life: 200,000h

Dimensions (mm)	
Lead spacing (e)	ød
5.0	0.5
7.5	0.5
10.0	0.5*, 0.6
15.0	0.8

* 0.5 for capacitor width b = 4

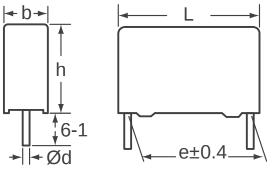

WV (DC)	WV (AC)	Cap (µF)	Tolerance	Dimensions (mm)				Digi-Key Part No.	Pricing			Epcos Part No.
				b	h	L	e		1	10	100	
50	32	0.33	±5%	3.0	6.5	7.2	5.0	495-1085-ND	.28	1.87	13.17	B32529C5334J
		0.47	±5%	3.5	8.0	7.2	5.0	495-1086-ND	.37	2.51	17.71	B32529C5474J
		0.68	±5%	4.5	9.5	7.3	5.0	495-1117-ND	.35	2.58	18.40	B32529C5684J
		1.0	±5%	4.5	9.5	7.3	5.0	495-1087-ND	.40	2.97	21.20	B32529C5105J
		1.5	±5%	6.0	10.5	7.5	5.0	495-1088-ND	.71	5.28	38.80	B32529C5155J
		2.2	±5%	7.8	13.0	7.8	5.0	495-1089-ND	1.40	10.49	78.71	B32529D5225J
		3.3	±5%	7.8	13.0	7.8	5.0	495-1090-ND	1.85	14.02	105.84	B32529D5335J
63	40	0.001	±5%	2.5	6.5	7.2	5.0	495-1091-ND	.17	1.29	8.68	B32529C102J
		0.0015	±5%	2.5	6.5	7.2	5.0	495-1092-ND	.17	1.29	8.68	B32529C152J
		0.0022	±5%	2.5	6.5	7.2	5.0	495-1093-ND	.17	1.29	8.68	B32529C222J
		0.0033	±5%	2.5	6.5	7.2	5.0	495-1094-ND	.17	1.29	8.68	B32529C332J
		0.0047	±5%	2.5	6.5	7.2	5.0	495-1095-ND	.17	1.29	8.68	B32529C472J
		0.0068	±5%	2.5	6.5	7.2	5.0	495-1096-ND	.17	1.29	8.68	B32529C682J
		0.01	±5%	2.5	6.5	7.2	5.0	495-1097-ND	.17	1.29	8.68	B32529C103J
		0.015	±5%	2.5	6.5	7.2	5.0	495-1098-ND	.17	1.29	8.68	B32529C153J
		0.022	±5%	2.5	6.5	7.2	5.0	495-1099-ND	.17	1.29	8.68	B32529C223J
		0.033	±5%	2.5	6.5	7.2	5.0	495-1100-ND	.17	1.29	8.68	B32529C333J
		0.047	±5%	2.5	6.5	7.2	5.0	495-1101-ND	.17	1.29	8.68	B32529C473J
		0.068	±5%	2.5	6.5	7.2	5.0	495-1102-ND	.17	1.29	8.68	B32529C683J
		0.10	±5%	2.5	7.0	10.0	7.5	495-1104-ND	.25	1.73	12.18	B32520C104J
		0.10	±5%	2.5	6.5	7.2	5.0	495-1103-ND	.17	1.29	8.68	B32529C104J
		0.15	±5%	2.5	6.5	7.2	5.0	495-1105-ND	.20	1.55	10.42	B32529C154J
		0.22	±5%	2.5	7.0	10.0	7.5	495-1107-ND	.32	2.18	15.40	B32520C224J
		0.22	±5%	2.5	6.5	7.2	5.0	495-1106-ND	.22	1.72	11.56	B32529C224J
		0.33	±5%	2.5	7.0	10.0	7.5	495-1109-ND	.38	2.58	18.18	B32520C334J
		0.33	±5%	3.0	6.5	7.2	5.0	495-1108-ND	.34	2.29	16.17	B32529C334J
		0.47	±5%	3.0	8.0	10.0	7.5	495-1112-ND	.35	2.61	18.68	B32520C474J
		0.47	±5%	4.0	7.0	13.0	10.0	495-1111-ND	.36	2.67	19.08	B32521C474J
		0.47	±5%	3.5	8.0	7.2	5.0	495-1110-ND	.37	2.51	17.71	B32529C474J
		0.68	±5%	4.0	8.5	10.0	7.5	495-1115-ND	.51	3.76	26.83	B32520C684J
		0.68	±5%	4.0	7.0	13.0	10.0	495-1113-ND	.51	3.76	26.83	B32521C684J
		0.68	±5%	5.0	10.5	18.0	15.0	495-1116-ND	.60	4.41	31.50	B32522C684J
		0.68	±5%	4.5	9.5	7.3	5.0	495-1114-ND	.42	3.07	21.93	B32529C684J
		1.0	±5%	5.0	10.5	10.0	7.5	495-1121-ND	.55	4.08	29.99	B32520C105J
		1.0	±5%	4.0	9.0	13.0	10.0	495-1118-ND	.55	4.08	29.99	B32521C105J
		1.0	±5%	5.0	10.5	18.0	15.0	495-1120-ND	.63	4.65	34.17	B32522C105J
		1.0	±5%	4.5	9.5	7.3	5.0	495-1119-ND	.45	3.30	23.58	B32529C105J
		1.5	±5%	5.0	10.5	10.0	7.5	495-1124-ND	.80	5.95	43.69	B32520C155J
		1.5	±5%	5.0	11.0	13.0	10.0	495-1170-ND	.80	5.95	43.69	B32521C155J
		1.5	±5%	5.0	10.5	18.0	15.0	495-1123-ND	.91	6.77	49.73	B32522C155J
		1.5	±5%	6.0	10.5	7.5	5.0	495-1122-ND	1.05	7.82	57.46	B32529C155J
		2.2	±5%	6.0	12.0	10.3	7.5	495-1128-ND	1.15	8.63	64.71	B32520C225J
		2.2	±5%	5.0	11.0	13.0	10.0	495-1125-ND	1.10	8.24	61.79	B32521C225J
		2.2	±5%	5.0	10.5	18.0	15.0	495-1126-ND	1.11	8.33	62.48	B32522C225J
		2.2	±5%	7.8	13.0	7.8	5.0	495-1127-ND	1.27	9.52	71.39	B32529D225J
		3.3	±5%	6.0	12.0	13.0	10.0	495-1129-ND	1.47	11.01	82.60	B32521C335J
		3.3	±5%	6.0	11.0	18.0	15.0	495-1130-ND	1.49	11.18	83.84	B32522C335J
		4.7	±5%	7.0	12.5	18.0	15.0	495-1131-ND	1.60	12.12	91.46	B32522C475J
100	63	0.001	±5%	2.5	6.5	7.2	5.0	495-1132-ND	.17	1.29	8.68	B32529C1102J
		0.0015	±5%	2.5	6.5	7.2	5.0	495-1133-ND	.17	1.29	8.68	B32529C1152J
		0.0022	±5%	2.5	6.5	7.2	5.0	495-1134-ND	.17	1.29	8.68	B32529C1222J
		0.0033	±5%	2.5	6.5	7.2	5.0	495-1135-ND	.17	1.29	8.68	B32529C1332J
		0.0047	±5%	2.5	6.5	7.2	5.0	495-1136-ND	.17	1.29	8.68	B32529C1472J
		0.0068	±5%	2.5	6.5	7.2	5.0	495-1137-ND	.17	1.29	8.68	B32529C1682J
		0.01	±5%	2.5	6.5	7.2	5.0	495-1138-ND	.17	1.29	8.68	B32529C1103J
		0.015	±5%	2.5	6.5	7.2	5.0	495-1139-ND	.17	1.29	8.68	B32529C1153J
		0.022	±5%	2.5	6.5	7.2	5.0	495-1140-ND	.17	1.29	8.68	B32529C1223J
		0.033	±5%	2.5	6.5	7.2	5.0	495-1141-ND	.17	1.29	8.68	B32529C1333J
		0.047	±5%	2.5	7.0	10.0	7.5	495-1144-ND	.22	1.72	11.56	B32520C1473J
		0.047	±5%	2.5	6.5	7.2	5.0	495-1143-ND	.17	1.29	8.68	B32529C1473J
		0.068	±5%	2.5	7.0	10.0	7.5	495-1145-ND	.24	1.64	11.55	B32520C1683J
		0.068	±5%	2.5	6.5	7.2	5.0	495-1146-ND	.17	1.29	8.68	B32529C1683J
		0.10	±5%	2.5	7.0	10.0	7.5	495-1148-ND	.25	1.73	12.18	B32520C1104J
		0.10	±5%	4.0	7.0	13.0	10.0	495-1149-ND	.29	1.97	13.92	B32521C1104J
		0.10	±5%	2.5	6.5	7.2	5.0	495-1147-ND	.17	1.29	8.68	B32529C1104J
		0.15	±5%	3.0	8.0	10.0	7.5	495-1150-ND	.29	2.00	14.11	B32520C1154J
		0.15	±5%	4.0	7.0	13.0	10.0	495-1152-ND	.31	2.12	14.96	B32521C1154J
		0.15	±5%	3.0	6.5	7.2	5.0	495-1151-ND	.27	1.82	12.84	B32529C1154J
		0.22	±5%	3.0	8.0	10.0	7.5	495-1153-ND	.34	2.30	16.25	B32520C1224J
		0.22	±5%	4.0	7.0	13.0	10.0	495-1154-ND	.38	2.55	17.96	B32521C1224J
		0.22	±5%	3.5	8.0	7.2	5.0	495-1155-ND	.28	1.89	13.34	B32529C1224J
		0.33	±5%	4.0	8.5	10.0	7.5	495-1156-ND	.34	2.51	17.90	B32520C1334J
		0.33	±5%	4.0	7.0	13.0	10.0	495-1159-ND	.34	2.53	18.08	B32521C1334J
		0.33	±5%	5.0	10.5	18.0	15.0	495-1157-ND	.56	4.11	29.35	B32522C1334J
		0.33	±5%	3.5	8.0	7.2	5.0	495-1158-ND	.38	2.55	17.96	B32529C1334J
		0.47	±5%	5.0	10.5	10.0	7.5	495-1162-ND	.40	2.97	21.20	B32520C1474J
		0.47	±5%	4.0	9.0	13.0	10.0	495-1163-ND	.44	3.21	22.95	B32521C1474J
		0.47	±5%	5.0	10.5	18.0	15.0	495-1161-ND	.57	4.22	30.15	B32522C1474J
		0.47	±5%	4.5	9.5	7.3	5.0	495-1160-ND	.35	2.58	18.43	B32529C1474J
		0.68	±5%	6.0	12.0	10.3	7.5	495-1165-ND	.52	3.86	27.60	B32520C1684J
		0.68	±5%	5.0	11.0	13.0	10.0	495-1164-ND	.53	3.92	28.00	B32521C1684J
		0.68	±5%	5.0	10.5	18.0	15.0	495-1166-ND	.57	4.20	30.88	B32522C1684J
		1.0	±5%	6.0	12.0	13.0	10.0	495-1167-ND	.69	5.13	37.65	B32521C1105J
		1.0	±5%	5.0	10.5	18.0	15.0	495-1168-ND	.70	5.20	38.21	B32522C1105J
		1.0	±5%	7.8	13.0	7.8	5.0	495-1169-ND	.80	5.94	43.64	B32529D1105J
		1.5	±5%	6.0	11.0	18.0	15.0	495-1171-ND	.90	6.72	49.35	B32522C1155J
		2.2	±5%	7.0	12.5	18.0	15.0	495-1172-ND	1.16	8.73	65.45	B32522C1225J
		3.3	±5%	8.5	14.5	18.0	15.0	495-1173-ND	1.61	12.11	90.83	B32522C1335J
250	160	0.001	±5%	2.5	6.5	7.2	5.0	495-1174-ND	.17	1.33	8.96	B32529C3102J
		0.0015	±5%	2.5	6.5	7.2	5.0	495-1175-ND	.17	1.33	8.96	B32529C3152J
		0.0022	±5%	2.5	6.5	7.2	5.0	495-1176-ND	.17	1.33	8.96	B32529C3222J
		0.0033	±5%	2.5	6.5	7.2	5.0	495-1177-ND	.17	1.33	8.96	B32529C3332J
250	160	0.0047	±5%	2.5	6.5	7.2	5.0	495-1178-ND	.17	1.33	8.96	B32529C3472J
		0.0068	±5%	2.5	6.5	7.2	5.0	495-1179-ND	.17	1.33	8.96	B32529C3682J
		0.01	±5%	2.5	6.5	7.2	5.0	495-1180-ND	.17	1.33	8.96	B32529C3103J
		0.015	±5%	2.5	7.0	10.0	7.5	495-1181-ND	.23	1.75	11.81	B32520C3153J
		0.015	±5%	2.5	6.5	7.2	5.0	495-1182-ND	.17	1.33	8.96	B32529C3153J
		0.022	±5%	2.5	7.0	10.0	7.5	495-1184-ND	.23	1.75	11.81	B32520C3223J
		0.022	±5%	2.5	6.5	7.2	5.0	495-1183-ND	.17	1.33	8.96	B32529C3223J
		0.033	±5%	2.5	7.0	10.0	7.5	495-1186-ND	.22	1.49	10.48	B32520C3333J
		0.033	±5%	4.0	7.0	13.0	10.0	495-1185-ND	.24	1.66	11.72	B32521C3333J
		0.033	±5%	3.0	6.5	7.2	5.0	495-1187-ND	.24	1.80	12.15	B32529C3333J
		0.047	±5%	2.5	7.0	10.0	7.5	495-1188-ND	.23	1.55	10.92	B32520C3473J
		0.047	±5%	4.0	7.0	13.0	10.0	495-1189-ND	.26	1.76	12.40	B32521C3473J
		0.047	±5%	3.5	8.0	7.2	5.0	495-1190-ND	.25	1.89	12.74	B32529C3473J
		0.068	±5%	3.0	8.0	10.0	7.5	495-1191-ND	.26	1.79	12.62	B32520C3683J
		0.068	±5%	4.0	7.0	13.0	10.0	495-1193-ND	.28	1.91	13.48	B32521C3683J
		0.068	±5%	4.5	9.5	7.3	5.0	495-1192-ND	.25	1.67	11.80	B32529C3683J
		0.10	±5%	4.0	8.5	10.0	7.5	495-1197-ND	.27	1.85	13.04	B32520C3104J
		0.10	±5%	4.0	7.0	13.0	10.0	495-1194-ND	.29	1.97	13.92	B32521C3104J
		0.10	±5%	5.0	10.5	18.0	15.0	495-1195-ND	.39	2.86	20.43	B32522C3104J
		0.10	±5%	4.5	9.5	7.3	5.0	495-1196-ND	.28	1.89	13.31	B32529C3104J
		0.15	±5%	5.0	10.5	10.0	7.5	495-1199-ND	.38	2.55	17.96	B32520C3154J
		0.15	±5%	4.0	9.0	13.0	10.0	495-1201-ND	.39	2.67	18.81	B32521C3154J
		0.15	±5%	5.0	10.5	18.0	15.0	495-1198-ND	.41	3.05	21.78	B32522C3154J
		0.15	±5%	5.0	10.0	7.5	5.0	495-1200-ND	.40	2.69	19.00	B32529C3154J
		0.22	±5%	5.0	11.0	13.0	10.0	495-1203-ND	.36	2.67	19.08	B32521C3224J
		0.22	±5%	5.0	10.5	18.0	15.0	495-1202-ND	.42	3.08	21.98	B32522C3224J
		0.22	±5%	7.8	13.0	7.8	5.0	495-1204-ND	.44	3.23	23.10	B32529D3224J
		0.33	±5%	5.0	11.0	13.0	10.0	495-1206-ND	.45	3.34	23.83	B32521C3334J
		0.33	±5%	5.0	10.5	18.0	15.0	495-1205-ND	.46	3.37	24.10	B32522C3334J
		0.47	±5%	6.0	12.0	13.0	10.0	495-1208-ND	.57	4.22	30.15	B32521C3474J
		0.47	±5%	6.0	11.0	18.0	15.0	495-1207-ND	.57	4.22	30.15	B32522C3474J
		0.68	±5%	7.0	12.5	18.0	15.0	495-1209-ND	.65	4.83	35.46	B32522C3684J
		1.0	±5%	8.5	14.5	18.0	15.0	495-1210-ND	.74	5.48	40.21	B32522C3105J
		1.0	±5%	8.5	14.5	18.0	15.0	495-1211-ND	.61	4.55	33.44	B32522N3105J
400	200	0.001	±5%	2.5	7.0	10.0	7.5	495-1212-ND	.23	1.75	11.81	B32520C6102J
		0.001	±5%	2.5	6.5	7.2	5.0	495-1213-ND	.19	1.46	9.83	B32529C6102J
		0.0015	±5%	2.5	7.0	10.0	7.5	495-1215-ND	.23	1.75	11.81	B32520C6152J
		0.0015	±5%	2.5	6.5	7.2	5.0	495-1214-ND	.19	1.46	9.83	B32529C6152J
		0.0022	±5%	2.5	7.0	10.0	7.5	495-1216-ND	.23	1.75	11.81	B32520C6222J
		0.0022	±5%	2.5	6.5	7.2	5.0	495-1217-ND	.19	1.46	9.83	B32529C6222J
		0.0033	±5%	2.5	7.0	10.0	7.5	495-1218-ND	.23	1.75	11.81	B32520C6332J
		0.0033	±5%	2.5	6.5	7.2	5.0	495-1219-ND	.19	1.46	9.83	B32529C6332J
		0.0047	±5%	2.5	7.0	10.0	7.5	495-1221-ND	.23	1.75	11.81	B32520C6472J
		0.0047	±5%	2.5	6.5	7.2	5.0	495-1220-ND	.19	1.46	9.83	B32529C6472J
		0.0068	±5%	2.5	7.0	10.0	7.5	495-1222-ND	.23	1.75	11.81	B32520C6682J
		0.0068	±5%	2.5	6.5	7.2	5.0	495-1223-ND	.19	1.46	9.83	B32529C6682J
		0.010	±5%	2.5	7.0	10.0	7.5	495-1226-ND	.23	1.75	11.81	B32520C6103J
		0.01	±5%	4.0	7.0	13.0	10.0	495-1225-ND	.28	1.91	13.48	B32521C6103J
		0.01	±5%	3.0	6.5	7.2	5.0	495-1224-ND	.25	1.89	12.74	B32529C6103J
		0.015	±5%	3.0	8.0	10.0	7.5	495-1227-ND	.25	1.67	11.77	B32520C6153J
		0.015	±5%	4.0	7.0	13.0	10.0	495-1229-ND	.32	2.15	15.18	B32521C6153J
		0.015	±5%	3.5	8.0	7.2	5.0	495-1228-ND	.26	1.97	13.30	B32529C6153J
		0.022	±5%	4.0	8.5	10.0	7.5	495-1232-ND	.25	1.70	11.99	B32520C6223J
		0.022	±5%	4.0	7.0	13.0	10.0	495-1230-ND	.32	2.15	15.18	B32521C6223J
		0.022	±5%	4.5	9.5	7.3	5.0	495-1231-ND	.28	1.89	13.35	B32529C6223J
		0.033	±5%	5.0	10.5	10.0	7.5	495-1233-ND	.32	2.15	15.18	B32520C6333J
		0.033	±5%	4.0	9.0	13.0	10.0	495-1234-ND	.33	2.22	15.62	B32521C6333J
		0.033	±5%	5.0	10.0	7.5	5.0	495-1235-ND	.34	2.29	16.17	B32529B6333J
		0.047	±5%	5.0	10.5	10.0	7.5	495-1238-ND	.36	2.43	17.11	B32520C6473J
		0.047	±5%	5.0	11.0	13.0	10.0	495-1239-ND	.31	2.29	16.33	B32521C6473J
		0.047	±5%	5.0	10.5	18.0	15.0	495-1236-ND	.44	3.22	23.00	B32522C6473J
		0.047	±5%	6.0	10.5	7.5	5.0	495-1237-ND	.39	2.66	18.73	B32529B6473J
		0.068	±5%	6.0	12.0	10.3	7.5	495-1240-ND	.43	2.94	20.74	B32520C6683J
		0.068	±5%	5.0	11.0	13.0	10.0	495-1242-ND	.37	2.70	19.25	B32521C6683J
		0.068	±5%	5.0	10.5	18.0	15.0	495-1241-ND	.45	3.32	23.73	B32522C6683J
		0.10	±5%	6.0	12.0	13.0	10.0	495-1243-ND	.42	3.13	22.35	B32521C6104J
		0.10	±5%	5.0	10.5	18.0	15.0	495-1244-ND	.47	3.43	24.50	B32522C6104J
		0.10	±5%	5.0	10.5	18.0	15.0	495-1245-ND	.37	2.72	19.45	B32522N6104J
		0.10	±5%	7.8	13.0	7.8	5.0	495-1246-ND	.54	3.99	28.48	B32529D6104J
		0.15	±5%	6.0	11.0	18.0	15.0	495-1247-ND	.50	3.68	26.25	B32522C6154J
		0.15	±5%	5.0	10.5	18.0	15.0	495-1248-ND	.41	3.05	21.78	B32522N6154J
		0.22	±5%	7.0	12.5	18.0	15.0	495-1249-ND	.54	3.98	28.40	B32522C6224J
		0.22	±5%	6.0	11.0	18.0	15.0	495-1250-ND	.49	3.59	25.68	B32522N6224J
		0.33	±5%	8.5	14.5	18.0	15.0	495-1251-ND	.59	4.35	31.10	B32522C6334J
		0.47	±5%	8.5	14.5	18.0	15.0	495-1253-ND	.77	5.75	42.23	B32522N6474J
		0.68	±5%	9.0	17.5	18.0	15.0	495-1254-ND	.91	6.70	47.83	B32522N6684J
450	200	0.33	±5%	8.5	14.5	18.0	15.0	495-1252-ND	.57	4.19	29.95	B32522N6334J
630	200	0.0068	±5%	4.0	9.0	13.0	10.0	495-1260-ND	.47	3.43	24.50	B32521N8682J
		0.01	±5%	4.0	9.0	13.0	10.0	495-1261-ND	.48	3.54	25.28	B32521N8103J
		0.015	±5%	5.0	11.0	13.0	10.0	495-1263-ND	.48	3.54	25.28	B32521N8153J
		0.022	±5%	5.0	11.0	13.0	10.0	495-1264-ND	.49	3.59	25.68	B32521N8223J
		0.033	±5%	6.0	12.0	13.0	10.0	495-1265-ND	.50	3.70	26.45	B32521N8333J
		0.033	±5%	5.0	10.5	18.0	15.0	495-1266-ND	.50	3.70	26.45	B32522Q8333J
		0.047	±5%	5.0	10.5	18.0	15.0	495-1267-ND	.50	3.70	26.45	B32522Q8473J
		0.068	±5%	6.0	11.0	18.0	15.0	495-1268-ND	.63	4.87	32.80	B32522Q8683J
		0.10	±5%	7.0	12.5	18.0	15.0	495-1269-ND	.52	3.86	27.60	B32522Q8104J
	400	0.001	±5%	2.5	6.5	7.2	5.0	495-1255-ND	.31	2.07	14.63	B32529C8102J
		0.0022	±5%	2.5	6.5	7.2	5.0	495-1256-ND	.31	2.07	14.63	B32529C8222J
		0.0033	±5%	3.5	8.0	7.2	5.0	495-1257-ND	.33	2.22	15.65	B32529C8332J
		0.0047	±5%	3.5	8.0	7.2	5.0	495-1258-ND	.29	1.93	13.64	B32529C8472J
		0.0068	±5%	3.5	8.0	7.2	5.0	495-1259-ND	.34	2.29	16.17	B32529C8682J
		0.01	±5%	5.0	10.0	7.5	5.0	495-1262-ND	.39	2.66	18.73	B32529C8103J

Panasonic® ECQ-E(B) Series Miniaturized Metallized Polyester Film Capacitors

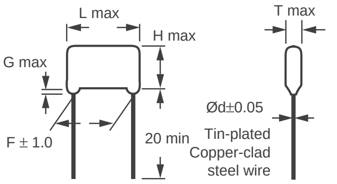

The type ECQ-E(B) series is a down-sized version of the popular ECQ-E(F) series. It provides similar electrical characteristics in a smaller package.

FEATURES:

- Non-inductive construction
- Wound metallized polyester dielectric

APPLICATIONS:

- Blocking, by-passing, filtering, timing, interference suppression, low pulse applications.

SPECIFICATIONS:

Operating temperature range: -40°C ~ 85°C

Rated voltage: 250VDC

Capacitance tolerance: ±10%(K) @ 1kHZ

Dissipation factor: ≤1.0% (20°C 1kHz)

Withstand voltage: 250VDC X 150% for 60 seconds between terminals

Insulation resistance: ≥9,000MΩ (C-≤-0.33µF) @ 100VDC, 20° for 60 seconds. ≥3,000MΩ · µF (C->-0.33µF) @ 100VDC, 20° for 60 seconds.

Voltage (VDC)	Cap. (µF)	Dimensions (mm) L	T	H	F	G	dø	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Panasonic Part No.
250	0.01	7.9	4.2	7.1	5.0	1.0	0.5	P10955-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2103KB
	0.012	7.9	4.2	7.1	5.0	1.0	0.5	P10956-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2123KB
	0.015	7.9	4.2	7.1	5.0	1.0	0.5	P10957-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2153KB
	0.018	7.9	4.3	7.2	5.0	1.0	0.5	P10958-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2183KB
	0.022	7.9	4.3	7.2	5.0	1.0	0.5	P10959-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2223KB
	0.027	7.9	4.3	7.2	5.0	1.0	0.5	P10960-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2273KB
	0.033	7.9	4.3	7.2	5.0	1.0	0.5	P10961-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2333KB
	0.039	7.9	4.5	7.4	5.0	1.0	0.5	P10962-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2393KB
	0.047	7.9	4.5	7.4	5.0	1.0	0.5	P10963-ND	.25	1.68	11.88	41.04	65.00	ECQ-E2473KB
	0.056	7.9	4.7	7.7	5.0	1.0	0.5	P10964-ND	.30	2.06	14.52	50.16	79.00	ECQ-E2563KB
	0.068	7.9	5.1	8.0	5.0	1.0	0.5	P10965-ND	.25	1.85	13.20	47.52	74.00	ECQ-E2683KB
	0.082	7.9	5.4	8.6	5.0	1.0	0.5	P10966-ND	.27	2.02	14.40	51.84	81.00	ECQ-E2823KB
	0.1	7.9	5.9	9.0	5.0	1.0	0.5	P10967-ND	.30	2.02	14.27	49.31	78.00	ECQ-E2104KB
	0.12	7.9	5.7	10.6	5.0	1.0	0.5	P10968-ND	.32	2.35	16.80	60.48	94.00	ECQ-E2124KB
	0.15	7.9	6.3	11.2	5.0	1.0	0.5	P10969-ND	.34	2.49	17.78	63.99	100.00	ECQ-E2154KB
	0.18	10.3	5.0	9.7	7.5	1.0	0.5	P10970-ND	.36	2.62	18.73	67.41	105.00	ECQ-E2184KB
	0.22	10.3	5.4	10.1	7.5	1.0	0.5	P10971-ND	.37	2.72	19.45	70.02	109.00	ECQ-E2224KB
	0.27	10.3	5.9	10.8	7.5	1.0	0.5	P10972-ND	.43	3.19	22.80	82.08	128.00	ECQ-E2274KB
	0.33	10.3	6.4	11.3	7.5	1.0	0.5	P10973-ND	.47	3.46	24.73	89.01	138.00	ECQ-E2334KB
	0.39	12.3	5.7	10.9	10.0	1.0	0.6	P10974-ND	.46	3.44	25.29	91.46	145.00	ECQ-E2394KB
	0.47	12.3	6.2	11.4	10.0	1.0	0.6	P10975-ND	.42	3.14	23.03	83.30	132.00	ECQ-E2474KB
	0.56	12.3	6.7	11.9	10.0	1.0	0.6	P10976-ND	.54	4.03	29.56	106.93	170.00	ECQ-E2564KB
	0.68	12.3	7.3	12.7	10.0	1.0	0.6	P10977-ND	.59	4.43	32.50	117.56	187.00	ECQ-E2684KB
	0.82	15.3	6.3	13.3	12.5	1.0	0.6	P10978-ND	.66	4.92	36.10	130.56	207.00	ECQ-E2824KB
	1.0	15.3	7.0	14.0	12.5	1.0	0.6	P10979-ND	.53	3.93	28.88	104.47	166.00	ECQ-E2105KB
	1.2	15.3	7.6	14.6	12.5	1.0	0.6	P10980-ND	.78	5.81	42.65	154.28	245.00	ECQ-E2125KB
	1.5	15.3	8.6	15.7	12.5	1.0	0.6	P10981-ND	.91	6.83	51.21	182.08	303.00	ECQ-E2155KB
	1.8	20.8	7.6	14.6	17.5	1.0	0.8	P10982-ND	1.00	7.52	56.39	200.48	333.00	ECQ-E2185KB
	2.2	20.8	8.4	15.6	17.5	1.0	0.8	P10983-ND	1.10	8.27	62.01	220.48	367.00	ECQ-E2225KB
	2.7	20.8	9.3	16.7	17.5	1.0	0.8	P10984-ND	1.24	9.33	70.00	248.88	414.00	ECQ-E2275KB
	3.3	20.8	10.5	17.9	17.5	1.0	0.8	P10985-ND	1.51	11.29	84.69	301.12	501.00	ECQ-E2335KB
	3.9	20.8	10.8	19.8	17.5	1.0	0.8	P10986-ND	2.13	16.10	121.54	455.78	790.00	ECQ-E2395KB
	4.7	20.8	11.9	21.0	17.5	1.0	0.8	P10987-ND	2.36	17.88	134.98	506.18	877.00	ECQ-E2475KB

Panasonic® ECQ-E(F) Series

Miniaturized Metallized Polyester Film Capacitors

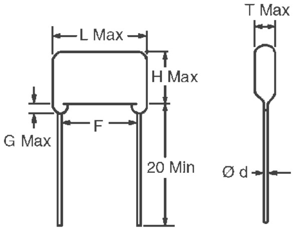

The type ECQ-E(F) series is using a dual side metallized polyester film with high dielectric constant(e) which makes it possible to produce large C-values in small dimensions, and is economical capacitor meeting high requirements for professional circuit design.

FEATURES:

- Self-healing property
- Flame retardant epoxy resin coating

APPLICATIONS:

- Blocking, by-passing, filtering, timing, interference suppression, low pulse applications.

SPECIFICATIONS:

Reference standard: JIS C5115, C5151

Operating temperature range: -40°C ~ 85°C (105°C, 75% of Rated voltage)

Rated voltage: 100V, 250V, 400V, 630V

Capacitance tolerance: ±10% (K)

Dissipation factor: 1.0% Maximum (20°C 1kHz)

Withstand voltage: Rated voltage DC100V ~ 630V (V.DC) X 150% 1 minute between terminals

Insulation resistance: DC100V ~ 630V: C ≤ 0.33µF 9,000MΩ Minimum, C->-0.33µF 3,000ΩVµF Minimum

Working Voltage (VDC)	Capacitance (µF)	Dimensions (mm) L	T	H	F	G	d	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Panasonic Part No.
100	.01	7.8	4.6	7.7	5.0	1.0	0.5	EF1103-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1103KF
	.012	7.8	4.5	7.6	5.0	1.0	0.5	EF1123-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1123KF
	.015	7.8	4.5	7.6	5.0	1.0	0.5	EF1153-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1153KF
	.018	7.8	4.6	7.7	5.0	1.0	0.5	EF1183-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1183KF
	.022	7.8	4.9	8.0	5.0	1.0	0.5	EF1223-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1223KF
	.027	7.8	4.7	7.8	5.0	1.0	0.5	EF1273-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1273KF
	.033	7.8	4.6	7.7	5.0	1.0	0.5	EF1333-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1333KF
	.039	7.8	4.9	8.0	5.0	1.0	0.5	EF1393-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1393KF
	.047	7.8	4.5	7.5	5.0	1.0	0.5	EF1473-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1473KF
	.056	7.8	4.8	7.9	5.0	1.0	0.5	EF1563-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1563KF
	.068	7.8	4.8	7.9	5.0	1.0	0.5	EF1683-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1683KF
	.082	7.8	4.7	9.9	5.0	1.0	0.5	EF1823-ND	.42	3.12	22.25	80.10	125.00	ECQ-E1823KF
	.1	7.8	5.0	10.0	5.0	1.0	0.5	EF1104-ND	.42	3.12	22.25	80.10	124.60	ECQ-E1104KF
	.12	10.3	4.5	7.5	7.5	1.0	0.6	EF1124-ND	.45	3.29	23.50	84.60	131.60	ECQ-E1124KF
	.15	10.3	4.5	7.5	7.5	1.0	0.6	EF1154-ND	.46	3.36	24.00	86.40	134.40	ECQ-E1154KF
	.18	10.3	4.8	7.9	7.5	1.0	0.6	EF1184-ND	.49	3.64	26.00	93.60	145.60	ECQ-E1184KF
	.22	10.3	5.0	8.0	7.5	1.0	0.6	EF1224-ND	.52	3.85	27.50	99.00	154.00	ECQ-E1224KF
	.27	10.3	4.5	12.0	7.5	1.0	0.6	EF1274-ND	.57	4.20	30.00	108.00	168.00	ECQ-E1274KF
	.33	10.3	6.0	10.7	7.5	1.0	0.6	EF1334-ND	.65	4.76	34.00	122.40	190.40	ECQ-E1334KF
	.39	10.3	6.3	11.0	7.5	1.0	0.6	EF1394-ND	.67	4.90	35.00	126.00	196.00	ECQ-E1394KF
	.47	10.3	6.0	12.0	7.5	1.0	0.6	EF1474-ND	.69	5.11	36.50	131.40	204.40	ECQ-E1474KF
	.56	12.0	5.5	10.9	10.0	1.0	0.6	EF1564-ND	.73	5.44	39.95	144.50	230.00	ECQ-E1564KF
	.68	12.0	6.0	11.9	10.0	1.0	0.6	EF1684-ND	.83	6.18	45.36	164.05	261.00	ECQ-E1684KF
	.82	12.0	6.0	13.5	10.0	1.0	0.6	EF1824-ND	.91	6.75	49.59	179.35	285.00	ECQ-E1824KF
	1.0	12.0	6.7	14.0	10.0	1.0	0.6	EF1105-ND	.99	7.36	54.05	195.50	310.50	ECQ-E1105KF
	1.2	18.5	5.5	12.8	15.0	1.0	0.6	EF1125-ND	1.14	8.51	62.51	226.10	359.10	ECQ-E1125KF
	1.5	18.5	6.0	13.4	15.0	1.0	0.8	EF1155-ND	1.14	8.59	64.40	228.96	380.65	ECQ-E1155KF
	1.8	18.5	6.5	14.4	15.0	1.0	0.8	EF1185-ND	1.38	10.32	77.40	275.20	457.52	ECQ-E1185KF
	2.2	18.5	7.0	15.0	15.0	1.0	0.8	EF1225-ND	1.56	11.70	87.75	312.00	518.70	ECQ-E1225KF
	2.7	18.5	8.0	15.8	15.0	1.0	0.8	EF1275-ND	1.78	13.32	99.90	355.20	590.52	ECQ-E1275KF
	3.3	18.5	8.5	16.5	15.0	1.0	0.8	EF1335-ND	2.26	16.92	126.90	451.20	750.12	ECQ-E1335KF
	3.9	26.0	7.0	16.4	22.5	1.0	0.8	EF1395-ND	2.24	16.99	128.20	480.75	833.30	ECQ-E1395KF
	4.7	26.0	7.5	17.0	22.5	1.0	0.8	EF1475-ND	2.53	19.19	144.80	543.00	941.20	ECQ-E1475KF
	5.6	26.0	8.3	17.5	22.5	1.0	0.8	EF1565-ND	3.01	22.76	171.80	644.25	1117.00	ECQ-E1565KF
	6.8	26.0	9.0	18.5	22.5	1.0	0.8	EF1685-ND	3.42	25.86	195.20	732.00	1269.00	ECQ-E1685KF
	8.2	26.0	10.0	20.0	22.5	1.5	0.8	EF1825-ND	3.94	29.81	225.00	843.75	1463.00	ECQ-E1825KF
	10.0	26.0	11.5	21.0	22.5	1.5	0.8	EF1106-ND	4.58	34.69	261.80	981.75	1701.70	ECQ-E1106KF

(Continued)

Working Voltage (VDC)	Capaci-tance (μF)	Dimensions (mm)						Digi-Key Part No.	Pricing					Panasonic Part No.
		L	T	H	F	G	d		1	10	100	500	1,000	
250	.01	10.3	4.3	7.4	7.5	1.0	0.6	EF2103-ND	.23	1.71	12.23	44.01	68.00	ECQ-E2103KF
	.012	10.3	4.4	7.5	7.5	1.0	0.6	EF2123-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2123KF
	.015	10.3	4.4	7.5	7.5	1.0	0.6	EF2153-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2153KF
	.018	10.3	4.4	7.5	7.5	1.0	0.6	EF2183-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2183KF
	.022	10.3	4.4	7.5	7.5	1.0	0.6	EF2223-ND	.23	1.71	12.23	44.01	68.00	ECQ-E2223KF
	.027	10.3	4.4	7.5	7.5	1.0	0.6	EF2273-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2273KF
	.033	10.3	4.5	7.5	7.5	1.0	0.6	EF2333-ND	.23	1.71	12.23	44.01	68.00	ECQ-E2333KF
	.039	10.3	4.5	7.5	7.5	1.0	0.6	EF2393-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2393KF
	.047	10.3	4.5	7.5	7.5	1.0	0.6	EF2473-ND	.28	1.91	13.45	46.46	73.00	ECQ-E2473KF
	.056	10.3	4.8	7.9	7.5	1.0	0.6	EF2563-ND	.33	2.23	15.73	54.34	86.00	ECQ-E2563KF
	.068	10.3	4.5	7.5	7.5	1.0	0.6	EF2683-ND	.29	2.15	15.35	55.26	86.00	ECQ-E2683KF
	.082	10.3	4.9	8.0	7.5	1.0	0.6	EF2823-ND	.25	1.86	13.28	47.79	74.00	ECQ-E2823KF
	.1	10.3	5.8	8.4	7.5	1.0	0.6	EF2104-ND	.31	2.07	14.60	50.45	80.00	ECQ-E2104KF
	.12	10.3	6.0	9.0	7.5	1.0	0.6	EF2124-ND	.30	2.18	15.60	56.16	87.00	ECQ-E2124KF
	.15	10.3	6.0	10.8	7.5	1.0	0.6	EF2154-ND	.32	2.33	16.65	59.94	93.00	ECQ-E2154KF
	.18	12.0	5.0	10.3	10.0	1.0	0.6	EF2184-ND	.38	2.80	20.03	72.09	112.00	ECQ-E2184KF
	.22	12.0	5.5	10.5	10.0	1.0	0.6	EF2224-ND	.40	2.91	20.80	74.88	116.00	ECQ-E2224KF
	.27	12.0	6.0	11.5	10.0	1.0	0.6	EF2274-ND	.43	3.17	22.63	81.45	127.00	ECQ-E2274KF
	.33	12.0	6.5	12.0	10.0	1.0	0.6	EF2334-ND	.40	3.00	22.00	79.56	126.00	ECQ-E2334KF
	.39	18.5	4.9	12.0	15.0	1.0	0.6	EF2394-ND	.51	3.83	28.11	101.66	161.00	ECQ-E2394KF
	.47	18.5	5.3	12.5	15.0	1.0	0.6	EF2474-ND	.51	3.83	28.11	101.66	161.00	ECQ-E2474KF
	.56	18.5	5.5	13.0	15.0	1.0	0.6	EF2564-ND	.53	3.93	28.86	104.38	166.00	ECQ-E2564KF
	.68	18.5	6.0	13.5	15.0	1.0	0.8	EF2684-ND	.54	3.99	29.33	106.08	168.00	ECQ-E2684KF
	.82	18.5	6.5	14.5	15.0	1.0	0.8	EF2824-ND	.56	4.16	30.55	110.50	176.00	ECQ-E2824KF
	1.0	18.5	7.4	15.0	15.0	1.0	0.8	EF2105-ND	.58	4.33	31.77	114.92	183.00	ECQ-E2105KF
	1.2	18.5	8.0	15.9	15.0	1.0	0.8	EF2125-ND	.72	5.32	39.10	141.44	225.00	ECQ-E2125KF
	1.5	18.5	9.0	16.8	15.0	1.0	0.8	EF2155-ND	.75	5.62	42.12	149.76	249.00	ECQ-E2155KF
	1.8	26.0	7.5	15.5	22.5	1.0	0.8	EF2185-ND	.96	7.18	53.82	191.36	318.00	ECQ-E2185KF
	2.2	26.0	8.5	16.3	22.5	1.0	0.8	EF2225-ND	.92	6.86	51.48	183.04	304.00	ECQ-E2225KF
	2.7	26.0	9.4	17.0	22.5	1.0	0.8	EF2275-ND	1.17	8.80	65.99	234.64	390.00	ECQ-E2275KF
	3.3	26.0	10.3	18.0	22.5	1.5	0.8	EF2335-ND	1.19	8.89	66.69	237.12	394.00	ECQ-E2335KF
	3.9	26.0	11.0	20.5	22.5	1.5	0.8	EF2395-ND	1.14	8.60	64.90	243.38	422.00	ECQ-E2395KF
	4.7	26.0	12.0	21.5	22.5	1.5	0.8	EF2475-ND	1.27	9.65	72.80	273.00	473.00	ECQ-E2475KF
	5.6	31.0	11.8	21.0	27.5	1.5	0.8	EF2565-ND	2.18	16.51	124.60	467.25	810.00	ECQ-E2565KF
	6.8	31.0	13.0	22.4	27.5	1.5	0.8	EF2685-ND	2.32	17.56	132.50	496.88	861.00	ECQ-E2685KF
	8.2	31.0	14.3	23.5	27.5	1.5	0.8	EF2825-ND	2.50	18.96	143.12	536.70	930.00	ECQ-E2825KF
	10.0	31.0	15.9	25.8	27.5	1.5	0.8	EF2106-ND	4.48	33.90	255.84	959.40	1663.00	ECQ-E2106KF
400	.01	10.3	4.3	7.4	7.5	1.0	0.6	EF4103-ND	.27	1.97	14.05	50.58	79.00	ECQ-E4103KF
	.012	10.3	4.4	7.5	7.5	1.0	0.6	EF4123-ND	.27	1.97	14.05	50.58	79.00	ECQ-E4123KF
	.015	10.3	4.4	7.5	7.5	1.0	0.6	EF4153-ND	.27	1.97	14.05	50.58	79.00	ECQ-E4153KF
	.018	10.3	4.4	7.5	7.5	1.0	0.6	EF4183-ND	.27	1.97	14.05	50.58	79.00	ECQ-E4183KF
	.022	10.3	4.8	7.9	7.5	1.0	0.6	EF4223-ND	.48	3.50	25.00	90.00	140.00	ECQ-E4223KF
	.027	10.3	5.5	8.0	7.5	1.0	0.6	EF4273-ND	.48	3.50	25.00	90.00	140.00	ECQ-E4273KF
	.033	10.3	6.0	9.0	7.5	1.0	0.6	EF4333-ND	.48	3.50	25.00	90.00	140.00	ECQ-E4333KF
	.039	12.0	4.9	8.0	10.0	1.0	0.6	EF4393-ND	.40	2.94	21.00	75.60	118.00	ECQ-E4393KF
	.047	12.0	5.0	8.3	10.0	1.0	0.6	EF4473-ND	.48	3.50	25.00	90.00	140.00	ECQ-E4473KF
	.056	12.0	5.0	10.0	10.0	1.0	0.6	EF4563-ND	.49	3.61	25.75	92.70	144.00	ECQ-E4563KF
	.068	12.0	5.4	10.5	10.0	1.0	0.6	EF4683-ND	.55	4.08	29.13	104.85	163.00	ECQ-E4683KF
	.082	12.0	5.8	11.0	10.0	1.0	0.6	EF4823-ND	.51	3.75	26.80	96.48	150.00	ECQ-E4823KF
	.1	12.0	6.3	12.0	10.0	1.0	0.6	EF4104-ND	.53	3.92	28.00	100.80	157.00	ECQ-E4104KF
	.12	18.5	5.0	10.0	15.0	1.0	0.6	EF4124-ND	.55	4.06	29.82	107.87	171.00	ECQ-E4124KF
	.15	18.5	5.0	12.4	15.0	1.0	0.6	EF4154-ND	.56	4.20	30.81	111.44	177.00	ECQ-E4154KF
	.18	18.5	5.4	12.5	15.0	1.0	0.6	EF4184-ND	.60	4.46	32.76	118.49	188.00	ECQ-E4184KF
	.22	18.5	5.9	13.0	15.0	1.0	0.6	EF4224-ND	.70	5.23	38.38	138.81	220.00	ECQ-E4224KF
	.27	18.5	6.5	14.3	15.0	1.0	0.8	EF4274-ND	.71	5.26	38.63	139.74	222.00	ECQ-E4274KF
	.33	18.5	7.0	14.9	15.0	1.0	0.8	EF4334-ND	.76	5.66	41.55	150.28	239.00	ECQ-E4334KF
	.39	18.5	7.5	15.4	15.0	1.0	0.8	EF4394-ND	.83	6.16	45.21	163.54	260.00	ECQ-E4394KF
	.47	18.5	7.8	17.0	15.0	1.0	0.8	EF4474-ND	.95	7.06	51.82	187.43	298.00	ECQ-E4474KF
	.56	26.0	6.5	16.0	22.5	1.0	0.8	EF4564-ND	.96	7.18	53.82	191.36	318.00	ECQ-E4564KF
	.68	26.0	7.0	16.5	22.5	1.0	0.8	EF4684-ND	.77	5.77	43.29	153.92	256.00	ECQ-E4684KF
	.82	26.0	7.9	17.3	22.5	1.0	0.8	EF4824-ND	1.10	8.27	62.01	220.48	367.00	ECQ-E4824KF
	1.0	26.0	8.5	18.9	22.5	1.0	0.8	EF4105-ND	1.17	8.77	65.77	233.84	389.00	ECQ-E4105KF
	1.2	26.0	9.5	18.9	22.5	1.0	0.8	EF4125-ND	1.77	13.39	101.08	379.05	657.00	ECQ-E4125KF
	1.5	31.0	9.5	19.0	27.5	1.0	0.8	EF4155-ND	2.28	17.23	130.00	487.50	845.00	ECQ-E4155KF
	1.8	31.0	11.0	20.5	27.5	1.5	0.8	EF4185-ND	2.28	17.23	130.00	487.50	845.00	ECQ-E4185KF
	2.2	31.0	11.0	22.0	27.5	1.5	0.8	EF4225-ND	2.94	22.23	167.78	629.18	1091.00	ECQ-E4225KF
630	.01	12.0	4.5	7.5	10.0	1.0	0.6	EF6103-ND	.32	2.37	16.90	60.84	95.00	ECQ-E6103KF
	.012	12.0	4.5	7.8	10.0	1.0	0.6	EF6123-ND	.40	2.95	21.08	75.87	118.00	ECQ-E6123KF
	.015	12.0	5.0	8.2	10.0	1.0	0.6	EF6153-ND	.44	3.28	23.40	84.24	131.00	ECQ-E6153KF
	.018	12.0	4.9	10.0	10.0	1.0	0.6	EF6183-ND	.45	3.35	23.93	86.13	134.00	ECQ-E6183KF
	.022	12.0	5.3	10.5	10.0	1.0	0.6	EF6223-ND	.46	3.42	24.45	88.02	137.00	ECQ-E6223KF
	.027	12.0	5.5	10.9	10.0	1.0	0.6	EF6273-ND	.47	3.46	24.70	88.92	138.00	ECQ-E6273KF
	.033	12.0	6.0	11.9	10.0	1.0	0.6	EF6333-ND	.49	3.59	25.68	92.43	144.00	ECQ-E6333KF
	.039	12.0	6.0	13.4	10.0	1.0	0.6	EF6393-ND	.48	3.53	25.23	90.81	141.00	ECQ-E6393KF
	.047	12.0	6.5	13.5	10.0	1.0	0.6	EF6473-ND	.48	3.53	25.23	90.81	141.00	ECQ-E6473KF
	.056	18.5	5.4	10.5	15.0	1.0	0.6	EF6563-ND	.48	3.60	26.41	95.54	152.00	ECQ-E6563KF
	.068	18.5	5.8	11.0	15.0	1.0	0.6	EF6683-ND	.50	3.73	27.38	99.03	157.00	ECQ-E6683KF
	.082	18.5	6.5	12.0	15.0	1.0	0.6	EF6823-ND	.51	3.83	28.11	101.66	161.00	ECQ-E6823KF
	.1	18.5	6.3	14.0	15.0	1.0	0.6	EF6104-ND	.55	4.13	30.32	109.65	174.00	ECQ-E6104KF
	.12	18.5	6.3	14.5	15.0	1.0	0.8	EF6124-ND	.58	4.29	31.54	114.07	181.00	ECQ-E6124KF
	.15	18.5	7.5	15.4	15.0	1.0	0.8	EF6154-ND	.60	4.49	32.99	119.34	190.00	ECQ-E6154KF
	.18	18.5	8.0	16.0	15.0	1.0	0.8	EF6184-ND	.84	6.22	45.71	165.33	263.00	ECQ-E6184KF
	.22	18.5	9.0	16.5	15.0	1.0	0.8	EF6224-ND	.89	6.66	48.88	176.80	281.00	ECQ-E6224KF
	.27	26.0	7.0	16.5	22.5	1.0	0.8	EF6274-ND	.85	6.40	47.97	170.56	284.00	ECQ-E6274KF
	.33	26.0	7.8	17.0	22.5	1.0	0.8	EF6334-ND	.87	6.55	49.14	174.72	290.00	ECQ-E6334KF
	.39	26.0	8.5	17.9	22.5	1.0	0.8	EF6394-ND	1.09	8.18	61.31	218.00	362.00	ECQ-E6394KF
	.47	26.0	9.3	18.5	22.5	1.0	0.8	EF6474-ND	1.23	9.24	69.28	246.32	410.00	ECQ-E6474KF
	.56	26.0	10.0	20.0	22.5	1.5	0.8	EF6564-ND	1.29	9.67	72.54	257.92	429.00	ECQ-E6564KF
	.68	26.0	11.5	21.0	22.5	1.5	0.8	EF6684-ND	1.20	9.09	68.64	257.40	446.00	ECQ-E6684KF
	.82	31.0	11.3	20.5	27.5	1.5	0.8	EF6824-ND	1.74	13.15	99.22	372.08	645.00	ECQ-E6824KF
	1.0	31.0	12.5	21.9	27.5	1.5	0.8	EF6105-ND	1.82	13.78	104.00	390.00	676.00	ECQ-E6105KF
	1.2	31.0	13.5	23.0	27.5	1.5	0.8	EF6125-ND	1.84	13.92	105.04	393.90	683.00	ECQ-E6125KF
	1.5	31.0	15.3	24.7	27.5	1.5	0.8	EF6155-ND	2.09	15.79	119.20	447.00	775.00	ECQ-E6155KF
	1.8	31.0	16.8	27.0	27.5	1.5	0.8	EF6185-ND	2.32	17.56	132.50	496.88	861.00	ECQ-E6185KF
	2.2	31.0	19.5	29.0	27.5	1.5	0.8	EF6225-ND	3.57	27.01	203.84	764.40	1325.00	ECQ-E6225KF

Metallized Polyester Film Capacitors MKT 370/371/372/373

FEATURES: • Low-inductive wound cell of metallized (PETP) film • Potted with epoxy resin in a flame-retardant case • Radial leads of solder-coated wire • Withstands solvents and rinsing liquids • Small stand-off pips to allow removal of solder flux • Suitable for high density packaging **APPLICATIONS:** • Blocking and coupling • Bypass and energy reservoir **SPECIFICATIONS: Rated Temperature:** 85°C **Maximum Application Temperature:** 105°C

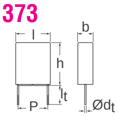

Volt. (DC)	Cap. (µF)	Toler- ance	Dimensions (mm)						Digi-Key Part No.	Pricing			BC Components Part No.
			b	h	l	P	l_t	$ød_t$		10	100	1,000	
MKT 370 Series													
63	.056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1633-ND	1.34	8.90	66.75	2222 370 11563
	.068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1635-ND	1.34	8.96	67.20	2222 370 11683
	.082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1637-ND	1.36	9.04	67.80	2222 370 11823
	.10	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1621-ND	1.22	8.16	61.20	2222 370 11104
	.12	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1623-ND	1.48	9.86	73.95	2222 370 11124
	.15	±5%	2.5	6.5	7.2	5.08	4.0	.50	3014PH-ND	1.76	11.72	87.90	2222 370 12154
	.15	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1625-ND	1.64	10.96	82.20	2222 370 11154
	.18	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1627-ND	1.82	12.14	91.05	2222 370 11184
	.22	±5%	3.5	8.0	7.2	5.08	4.0	.50	3015PH-ND	2.15	14.32	107.40	2222 370 12224
	.22	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1628-ND	2.01	13.38	100.35	2222 370 11224
	.27	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1629-ND	2.31	15.40	115.50	2222 370 11274
	.33	±5%	3.5	8.0	7.2	5.08	4.0	.50	3016PH-ND	2.72	18.16	136.20	2222 370 12334
	.33	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1630-ND	2.55	17.00	127.50	2222 370 11334
	.39	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1631-ND	2.90	19.32	144.90	2222 370 11394
	.47	±5%	3.5	8.0	7.2	5.08	4.0	.50	3017PH-ND	3.48	23.20	174.00	2222 370 12474
	.47	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1632-ND	3.24	21.60	162.00	2222 370 11474
	.56	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1634-ND	3.81	25.40	190.50	2222 370 11564
	.68	±5%	4.5	9.0	7.2	5.08	4.0	.50	3018PH-ND	4.68	31.20	234.00	2222 370 12684
	.68	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1636-ND	4.38	29.20	219.00	2222 370 11684
	.82	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1638-ND	4.62	30.80	231.00	2222 370 11824
	1.0	±5%	6.0	11.0	7.2	5.08	4.0	.50	3019PH-ND	5.46	36.40	273.00	2222 370 12105
	1.0	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1622-ND	5.07	33.80	253.50	2222 370 11105
	1.2*	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1624-ND	5.52	36.80	276.00	2222 370 11125
	1.5*	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1626-ND	5.55	37.00	277.50	2222 370 11155
100	.012	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1640-ND	1.16	7.76	58.20	2222 370 21123
	.015	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1642-ND	1.19	7.90	59.25	2222 370 21153
	.018	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1644-ND	1.21	8.06	60.45	2222 370 21183
	.022	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1646-ND	1.23	8.20	61.50	2222 370 21223
	.027	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1648-ND	1.25	8.36	62.70	2222 370 21273
	.033	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1650-ND	1.28	8.50	63.75	2222 370 21333
	.039	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1652-ND	1.30	8.66	64.95	2222 370 21393
	.047	±5%	2.5	6.5	7.2	5.08	4.0	.50	3011PH-ND	1.41	9.40	70.50	2222 370 22473
	.047	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1654-ND	1.32	8.80	66.00	2222 370 21473
	.056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1656-ND	1.60	10.64	79.80	2222 370 21563
	.068	±5%	2.5	6.5	7.2	5.08	4.0	.50	3012PH-ND	1.83	12.20	91.50	2222 370 22683
	.068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1657-ND	1.71	11.40	85.50	2222 370 21683
	.082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1658-ND	1.82	12.14	91.05	2222 370 21823
	.10	±5%	3.5	8.0	7.2	5.08	4.0	.50	3013PH-ND	2.07	13.82	103.65	2222 370 22104
	.10	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1639-ND	1.94	12.92	96.90	2222 370 21104
	.12	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1641-ND	2.09	13.96	104.70	2222 370 21124
	.15	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1643-ND	2.31	15.40	115.50	2222 370 21154
	.18	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1645-ND	2.55	17.00	127.50	2222 370 21184
	.22	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1647-ND	2.77	18.46	138.45	2222 370 21224
	.27	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1649-ND	3.06	20.40	153.00	2222 370 21274
	.33	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1651-ND	3.30	22.00	165.00	2222 370 21334
	.39	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1653-ND	3.75	25.00	187.50	2222 370 21394
	.47	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1655-ND	4.08	27.20	204.00	2222 370 21474
250	.0047	±5%	2.5	6.5	7.2	5.08	4.0	.50	3005PH-ND	1.22	8.12	60.90	2222 370 42472
	.0068	±5%	2.5	6.5	7.2	5.08	4.0	.50	3006PH-ND	1.22	8.12	60.90	2222 370 42682
	.010	±5%	2.5	6.5	7.2	5.08	4.0	.50	3007PH-ND	1.25	8.30	62.25	2222 370 42103
	.015	±5%	2.5	6.5	7.2	5.08	4.0	.50	3008PH-ND	1.29	8.60	64.50	2222 370 42153
	.022	±5%	3.5	8.0	7.2	5.08	4.0	.50	3009PH-ND	1.46	9.76	73.20	2222 370 42223
	.033	±5%	3.5	8.0	7.2	5.08	4.0	.50	3010PH-ND	1.71	11.38	85.35	2222 370 42333
400	.0010	±5%	2.5	6.5	7.2	5.08	4.0	.50	3001PH-ND	1.22	8.12	60.90	2222 370 52102
	.0010	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1659-ND	1.14	7.60	57.00	2222 370 51102
	.0012	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1661-ND	1.14	7.60	57.00	2222 370 51122
	.0015	±5%	2.5	6.5	7.2	5.08	4.0	.50	3002PH-ND	1.22	8.12	60.90	2222 370 52152
	.0015	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1663-ND	1.14	7.60	57.00	2222 370 51152
	.0018	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1665-ND	1.14	7.60	57.00	2222 370 51182
	.0022	±5%	2.5	6.5	7.2	5.08	4.0	.50	3003PH-ND	1.22	8.12	60.90	2222 370 52222
	.0022	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1667-ND	1.14	7.60	57.00	2222 370 51222
	.0027	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1669-ND	1.14	7.60	57.00	2222 370 51272
	.0033	±5%	2.5	6.5	7.2	5.08	4.0	.50	3004PH-ND	1.22	8.12	60.90	2222 370 52332
	.0033	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1671-ND	1.14	7.60	57.00	2222 370 51332
	.0039	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1673-ND	1.16	7.76	58.20	2222 370 51392
	.0047	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1675-ND	1.19	7.90	59.25	2222 370 51472
	.0056	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1677-ND	1.21	8.06	60.45	2222 370 51562
	.0068	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1678-ND	1.23	8.20	61.50	2222 370 51682
	.0082	±10%	2.5	6.5	7.2	5.08	4.0	.50	BC1679-ND	1.25	8.36	62.70	2222 370 51822
	.01	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1660-ND	1.28	8.50	63.75	2222 370 51103
	.012	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1662-ND	1.30	8.66	64.95	2222 370 51123
	.015	±10%	3.5	8.0	7.2	5.08	4.0	.50	BC1664-ND	1.32	8.80	66.00	2222 370 51153
	.018	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1666-ND	1.37	9.12	68.40	2222 370 51183
	.022	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1668-ND	1.48	9.88	74.10	2222 370 51223
	.027	±10%	4.5	9.0	7.2	5.08	4.0	.50	BC1670-ND	1.62	10.80	81.00	2222 370 51273
	.033	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1672-ND	1.73	11.54	86.55	2222 370 51333
	.039	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1674-ND	1.85	12.30	92.25	2222 370 51393
	.047	±10%	6.0	11.0	7.2	5.08	4.0	.50	BC1676-ND	1.98	13.22	99.15	2222 370 51473
MKT 371 Series													
63	.056	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1688-ND	1.96	13.08	98.10	2222 371 11563
	.068	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1690-ND	1.97	13.16	98.70	2222 371 11683
	.082	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1692-ND	1.99	13.24	99.30	2222 371 11823
	.12	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1680-ND	2.08	13.88	104.10	2222 371 11124
	.15	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1681-ND	2.22	14.82	111.15	2222 371 11154
	.18	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1682-ND	2.40	15.98	119.85	2222 371 11184
	.22	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1683-ND	2.57	17.14	128.55	2222 371 11224
	.27	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1684-ND	2.84	18.90	141.75	2222 371 11274
	.33	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1685-ND	3.15	21.00	157.50	2222 371 11334
	.39	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1686-ND	3.45	23.00	172.50	2222 371 11394
	.47	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1687-ND	3.87	25.80	193.50	2222 371 11474
	.56	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1689-ND	4.32	28.80	216.00	2222 371 11564
	.68	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1691-ND	4.80	32.00	240.00	2222 371 11684
	.82	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1693-ND	5.25	35.00	262.50	2222 371 11824
100	.018	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1697-ND	1.94	12.92	96.90	2222 371 21183
	.022	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1699-ND	1.94	12.92	96.90	2222 371 21223
	.027	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1701-ND	1.94	12.92	96.90	2222 371 21273
	.033	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1703-ND	1.95	13.00	97.50	2222 371 21333
	.039	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1705-ND	1.95	13.00	97.50	2222 371 21393
	.056	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1709-ND	1.99	13.24	99.30	2222 371 21563
	.068	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1710-ND	2.03	13.56	101.70	2222 371 21683
	.082	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1711-ND	2.06	13.72	102.90	2222 371 21823
	.10	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1694-ND	2.08	13.88	104.10	2222 371 21104
	.12	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1695-ND	2.11	14.04	105.30	2222 371 21124
	.15	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1696-ND	2.31	15.40	115.50	2222 371 21154
	.22	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1700-ND	2.68	17.88	134.10	2222 371 21224
	.27	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1702-ND	2.94	19.62	147.15	2222 371 21274
	.33	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1704-ND	3.30	22.00	165.00	2222 371 21334
	.39	±10%	5.0	10.5	10.0	7.62	4.0	.50	BC1706-ND	3.63	24.20	181.50	2222 371 21394
250	.0082	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1724-ND	2.36	15.70	117.75	2222 371 41822
	.015	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1715-ND	2.38	15.84	118.80	2222 371 41153
	.018	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1716-ND	2.40	15.98	119.85	2222 371 41183
	.027	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1718-ND	2.42	16.12	120.90	2222 371 41273
	.039	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1720-ND	2.46	16.42	123.15	2222 371 41393
	.056	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1722-ND	2.53	16.86	126.45	2222 371 41563
	.068	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1723-ND	2.53	16.86	126.45	2222 371 41683
	.082	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1725-ND	2.57	17.14	128.55	2222 371 41823
400	.0039	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1729-ND	2.33	15.54	116.55	2222 371 51392
	.0047	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1730-ND	2.33	15.54	116.55	2222 371 51472
	.0068	±10%	2.5	6.5	10.0	7.62	4.0	.50	BC1732-ND	2.33	15.54	116.55	2222 371 51682
	.0082	±10%	3.0	8.0	10.0	7.62	4.0	.50	BC1733-ND	2.36	15.70	117.75	2222 371 51822
	.012	±10%	4.0	9.0	10.0	7.62	4.0	.50	BC1727-ND	2.38	15.84	118.80	2222 371 51123
MKT 372 Series													
100	.12	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1735-ND	2.55	17.00	127.50	2222 372 21124
	.15	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1736-ND	2.64	17.58	131.85	2222 372 21154
	.18	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1737-ND	2.72	18.16	136.20	2222 372 21184
	.22	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1738-ND	2.88	19.18	143.85	2222 372 21224
	.27	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1739-ND	3.06	20.40	153.00	2222 372 21274
	.33	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1740-ND	3.30	22.00	165.00	2222 372 21334
	.39	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1741-ND	3.60	24.00	180.00	2222 372 21394
250	.056	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1747-ND	2.44	16.28	122.10	2222 372 41563
	.12	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1744-ND	2.55	17.00	127.50	2222 372 41124
	.15	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1745-ND	2.72	18.16	136.20	2222 372 41154
400	.0068	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1761-ND	2.40	15.98	119.85	2222 372 51682
	.012	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1751-ND	2.40	15.98	119.85	2222 372 51123
	.015	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1752-ND	2.40	15.98	119.85	2222 372 51153
	.018	±10%	4.0	10.0	12.5	10.0	4.0	.60	BC1753-ND	2.40	15.98	119.85	2222 372 51183
	.039	±10%	5.0	11.0	12.5	10.0	4.0	.60	BC1757-ND	2.42	16.12	120.90	2222 372 51393
MKT 373 Series													
100	.33	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1768-ND	3.60	24.00	180.00	2222 373 21334
	.39	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1769-ND	3.72	24.80	186.00	2222 373 21394
	.47	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1770-ND	3.84	25.60	192.00	2222 373 21474
	.56	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1771-ND	4.32	28.80	216.00	2222 373 21564
	.68	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1772-ND	4.80	32.00	240.00	2222 373 21684
	.82	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1773-ND	5.25	35.00	262.50	2222 373 21824
	1.0	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1763-ND	5.73	38.20	286.50	2222 373 21105
	1.2	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1764-ND	6.48	43.20	324.00	2222 373 21125
	1.5	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1765-ND	7.65	51.00	382.50	2222 373 21155
	1.8	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1766-ND	9.09	60.60	454.50	2222 373 21185
	2.2	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1767-ND	10.77	71.80	538.50	2222 373 21225
250	.15	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1775-ND	2.88	19.18	143.85	2222 373 41154
	.18	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1777-ND	3.12	20.80	156.00	2222 373 41184
	.22	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1779-ND	3.36	22.40	168.00	2222 373 41224
	.27	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1781-ND	3.60	24.00	180.00	2222 373 41274
	.33	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1782-ND	3.84	25.60	192.00	2222 373 41334
	.39	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1784-ND	4.32	28.80	216.00	2222 373 41394
	.47	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1786-ND	4.80	32.00	240.00	2222 373 41474
	.56	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1788-ND	5.25	35.00	262.50	2222 373 41564
	.68	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1789-ND	5.52	36.80	276.00	2222 373 41684
	.82	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1790-ND	5.73	38.20	286.50	2222 373 41824
	1.0	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1774-ND	6.21	41.40	310.50	2222 373 41105
	1.2	±10%	10.0	16.5	17.5	15.0	5.0	.80	BC1791-ND	7.62	50.80	381.00	2222 373 43125
	1.5	±10%	8.5	18.0	26.0	22.5	5.0	.80	BC1776-ND	9.57	63.80	478.50	2222 373 41155
250	1.8	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1778-ND	11.49	76.60	574.50	2222 373 41185
	2.2	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1780-ND	13.41	89.40	670.50	2222 373 41225
	2.7	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1792-ND	14.91	99.40	745.50	2222 373 43275
	3.3	±10%	13.0	23.0	31.0	27.5	5.0	.80	BC1783-ND	17.97	119.80	898.50	2222 373 41335
	3.9	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1785-ND	21.06	140.40	1053.00	2222 373 41395
	4.7	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1787-ND	25.29	168.60	1264.50	2222 373 41475
400	.047	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1801-ND	3.12	20.80	156.00	2222 373 51473
	.056	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1802-ND	3.18	21.20	159.00	2222 373 51563
	.068	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1803-ND	3.24	21.60	162.00	2222 373 51683
	.082	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1805-ND	3.30	22.00	165.00	2222 373 51823
	.10	±10%	5.0	11.0	17.5	15.0	5.0	.60	BC1793-ND	3.39	22.60	169.50	2222 373 51104
	.12	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1794-ND	3.84	25.60	192.00	2222 373 51124
	.15	±10%	6.0	12.0	17.5	15.0	5.0	.60	BC1795-ND	4.32	28.80	216.00	2222 373 51154
	.18	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1797-ND	4.80	32.00	240.00	2222 373 51184
	.22	±10%	7.0	13.5	17.5	15.0	5.0	.80	BC1798-ND	5.25	35.00	262.50	2222 373 51224
	.27	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1799-ND	6.00	40.00	300.00	2222 373 51274
	.33	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1800-ND	6.69	44.60	334.50	2222 373 51334
	.39	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1808-ND	7.05	47.00	352.50	2222 373 53394
	.47	±10%	8.5	15.0	17.5	15.0	5.0	.80	BC1809-ND	7.26	48.40	363.00	2222 373 53474
	.56	±10%	10.0	16.5	17.5	15.0	5.0	.80	BC1810-ND	8.46	56.40	423.00	2222 373 53564
	.68	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1804-ND	9.57	63.80	478.50	2222 373 51684
	.82	±10%	8.5	18.0	26.0	22.5	5.0	.80	BC1811-ND	10.35	69.00	517.50	2222 373 53824
	1.0	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1806-ND	10.89	72.60	544.50	2222 373 53105
	1.2	±10%	10.0	19.5	26.0	22.5	5.0	.80	BC1807-ND	13.74	91.60	687.00	2222 373 53125
	1.5	±10%	15.0	25.0	31.0	27.5	5.0	.80	BC1796-ND	16.74	111.60	837.00	2222 373 51155

*U_{Rdc} = 50V and U_{Rac} = 32V.

AVX TPC **NEW!** Polyester Film Capacitors

Description: • Dielectric: Metallized polyester film (polyethylene teraphtalate) • Stacked-film • Leads: Radial tin-plated wire • Protection: Plastic case (UL94: V-0) / Epoxy resin • Marking: Logo, Nominal Capacitance, Tolerance (EIA), DC Nominal Voltage

Features: • Non-inductive, self-healing, metallized polyester film capacitor • Insulated thermoplastic casing, epoxy resin sealed with stand-offs, flame retardant resin and case according to UL 94 VO • Radial connections with a lead spacing of 5.08mm

Applications: • Supply decoupling, filter, integrators, treatment of analog signals, rejection of line perturbations

Standardization: • Generic Specifications: CEI 384-1/CECC 30000/UTE 83100 • Sectional Specifications: CEI 384-2-CECC 30400/ UTE 83151 • Complies with Special Specifications: CECC 30401-063 • On the LNZ list: Complies with type CPM-N; RAQ2 production, equivalent AQAP-4 of NATO

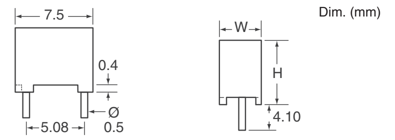

Volt. (DC)	Dim. (mm) H	W	Capac-itance	Toler-ance	Digi-Key Part No.	Pricing 1	10	100	AVX Part No.
63	6.5	2.5	1,000pF	±5%	478-3385-ND	.10	.74	5.30	BQ014D0102J
			1,000pF	±10%	478-3425-ND	.09	.70	4.98	BQ014D0102K
			1,500pF	±5%	478-3376-ND	.10	.75	5.38	BQ014D0152J
			1,800pF	±5%	478-3431-ND	.10	.77	5.48	BQ014D0182J
			2,200pF	±5%	478-3409-ND	.10	.77	5.48	BQ014D0222J
	6.5	2.5	2,200pF	±10%	478-3429-ND	.10	.72	5.15	BQ014D0222K
			2,700pF	±5%	478-3433-ND	.11	.78	5.55	BQ014D0272J
			3,300pF	±10%	478-3423-ND	.10	.72	5.18	BQ014D0332K
			3,900pF	±5%	478-3399-ND	.10	.76	5.45	BQ014D0392J
			4,700pF	±5%	478-3432-ND	.11	.78	5.55	BQ014D0472J
	6.5	2.5	4,700pF	±10%	478-3416-ND	.10	.73	5.23	BQ014D0472K
			8,200pF	±5%	478-3434-ND	.11	.83	5.93	BQ014D0822J
			10,000pF	±5%	478-3373-ND	.12	.85	6.10	BQ014D0103J
			10,000pF	±10%	478-3413-ND	.11	.80	5.73	BQ014D0103K
			15,000pF	±5%	478-3414-ND	.10	.72	5.18	BQ014D0153J
	6.5	2.5	15,000pF	±10%	478-3421-ND	.09	.68	4.85	BQ014D0153K
			22,000pF	±5%	478-3407-ND	.10	.74	5.28	BQ014D0223J
			22,000pF	±10%	478-3397-ND	.09	.69	4.95	BQ014D0223K
			27,000pF	±5%	478-3427-ND	.10	.76	5.45	BQ014D0273J
			27,000pF	±10%	478-3411-ND	.10	.72	5.13	BQ014D0273K
	6.5	2.5	33,000pF	±5%	478-3387-ND	.11	.83	5.90	BQ014D0333J
			33,000pF	±10%	478-3391-ND	.11	.78	5.55	BQ014D0333K
			39,000pF	±5%	478-3419-ND	.10	.77	5.53	BQ014D0393J
			47,000pF	±5%	478-3381-ND	.11	.79	5.63	BQ014D0473J
			47,000pF	±10%	478-3392-ND	.10	.74	5.28	BQ014D0473K
	6.5	2.5	56,000pF	±5%	478-3439-ND	.11	.79	5.65	BQ014D0563J
			56,000pF	±10%	478-3422-ND	.10	.75	5.33	BQ014D0563K
			68,000pF	±5%	478-3380-ND	.11	.84	6.00	BQ014D0683J
			68,000pF	±10%	478-3436-ND	.11	.79	5.65	BQ014D0683K
			82,000pF	±10%	478-3424-ND	.11	.78	5.55	BQ014D0823K
	6.5	2.5	0.1µF	±5%	478-3368-ND	.12	.90	6.43	BQ014D0104J
			0.1µF	±10%	478-3383-ND	.11	.84	6.03	BQ014D0104K
			.12µF	±5%	478-3418-ND	.13	.94	6.73	BQ014D0124J
			.15µF	±5%	478-3372-ND	.13	.99	7.10	BQ014D0154J
			.15µF	±10%	478-3410-ND	.13	.93	6.68	BQ014D0154K
	6.5	2.5	.22µF	±5%	478-3370-ND	.24	1.75	12.50	BQ014D0224J
			.22µF	±10%	478-3395-ND	.13	.99	7.05	BQ014D0224K

Volt. (DC)	Dim. (mm) H	W	Capac-itance	Toler-ance	Digi-Key Part No.	Pricing 1	10	100	AVX Part No.
63	8.0	3.2	.33µF	±5%	478-3378-ND	.23	1.68	11.98	BQ024D0334J
			.33µF	±10%	478-3400-ND	.21	1.58	11.25	BQ024D0334K
	8.0	5.0	.47µF	±5%	478-3371-ND	.34	2.53	18.08	BQ074D0474J
			.47µF	±10%	478-3415-ND	.32	2.38	17.00	BQ074D0474K
			.68µF	±10%	478-3417-ND	.36	2.64	18.85	BQ074D0684K
			1.0µF	±5%	478-3367-ND	.45	3.33	23.75	BQ074D0105J
			1.0µF	±10%	478-3375-ND	.42	3.13	22.33	BQ074D0105K
	12.0	6.0	2.2µF	±10%	478-3402-ND	.92	6.78	48.40	BQ054D0225K
100	6.5	2.5	1,000pF	±5%	478-3369-ND	.10	.74	5.30	BQ014E0102J
			1,500pF	±5%	478-3396-ND	.10	.75	5.38	BQ014E0152J
			2,200pF	±5%	478-3384-ND	.10	.77	5.48	BQ014E0222J
			2,200pF	±10%	478-3412-ND	.10	.72	5.15	BQ014E0222K
			3,300pF	±5%	478-3435-ND	.10	.77	5.53	BQ014E0332J
			3,300pF	±10%	478-3420-ND	.10	.72	5.18	BQ014E0332K
			4,700pF	±5%	478-3404-ND	.11	.78	5.55	BQ014E0472J
			6,800pF	±5%	478-3405-ND	.11	.81	5.80	BQ014E0682J
			6,800pF	±10%	478-3390-ND	.10	.76	5.45	BQ014E0682K
			10,000pF	±10%	478-3401-ND	.11	.81	5.75	BQ014E0103K
			10,000pF	±5%	478-3403-ND	.12	.85	6.10	BQ014E0103J
			15,000pF	±10%	478-3440-ND	.09	.68	4.85	BQ014E0153K
			22,000pF	±5%	478-3377-ND	.10	.74	5.28	BQ014E0223J
			33,000pF	±5%	478-3406-ND	.11	.83	5.90	BQ014E0333J
			47,000pF	±5%	478-3408-ND	.11	.79	5.63	BQ014E0473J
			47,000pF	±10%	478-3438-ND	.10	.74	5.28	BQ014E0473K
			0.1µF	±5%	478-3386-ND	.12	.90	6.43	BQ014E0104J
			0.1µF	±10%	478-3379-ND	.11	.84	6.03	BQ014E0104K
	8.0	5.0	.22µF	±5%	478-3393-ND	.28	2.09	14.95	BQ074E0224J
			.33µF	±5%	478-3394-ND	.23	1.68	11.98	BQ074E0334J
			.47µF	±5%	478-3437-ND	.61	4.48	32.00	BQ074E0474J
			.47µF	±10%	478-3428-ND	.48	3.54	25.25	BQ074E0474K
250	6.5	2.5	1,000pF	±10%	478-3389-ND	.11	.79	5.65	BQ014G0102K
			10,000pF	±5%	478-3430-ND	.13	.95	6.75	BQ014G0103J
			10,000pF	±10%	478-3426-ND	.12	.89	6.35	BQ014G0103K
	8.0	3.2	33,000pF	±10%	478-3398-ND	.15	1.14	8.15	BQ024G0333K
			47,000pF	±10%	478-3374-ND	.20	1.45	10.38	BQ024G0473K
	8.0	5.0	0.1µF	±10%	478-3382-ND	.29	2.12	15.15	BQ074G0104K
400	6.5	2.5	1,000pF	±10%	478-3388-ND	.11	.79	5.65	BQ014I0102K

Medium Power Film Capacitors

The FFB and FFV3 series use a non-impregnated metallized polypropylene or polyester dielectric with the controlled self-healing process, specially treated to have a very high dielectric strength in operating conditions up to 105°C. They have been designed for printed circuit board mounting. Furthermore, their performance allows them to be an alternative to electrolytic technology because they can withstand much higher levels of surge voltage. One unique feature of this technology (as opposed to electrolytics) is how the capacitor reacts at the end of its lifetime. With an electrolytic, there is a strong risk of explosion of the case. However, with this line of film capacitors, the capacitor will simply experience a loss of capacitance of about 2% at the end of its life. Please note that this is a theoretical, however, as the capacitor continues to be functional even after this 2% decrease.

Applications: The FFB and FFV3 series are particularity designed for DC filtering, low reactive power.

General Characteristics: • Climactic Category: 40/105/56 IEC 68 (FFV3 Series) 55/105/56 IEC 68 (FFB) • Test Voltage between terminals at 25°C is 1.5 X Vndc

Fig. 1

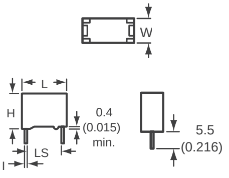

Fig. 2

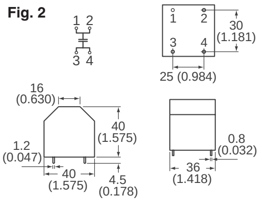

Fig.	Type	Voltage	Capacitance (µF)	Tolerance (%)	Irms Maximum (A)	Rs (mΩ)	Dimensions (mm) L	W	H	l	LS	Digi-Key Part No.	Price Each 1	10	100	1,000	AVX Part No.
												FFB Series					
1	Poly-ester	75VDC (45Vrms)	33	10	3.0	3.0	31.1	13.0	22.4	0.80	27.5	478-2589-ND	7.95	6.36	5.57	4.77	FFB14D0336K
			68	10	6.2	1.7	31.1	17.3	29.8	0.80	27.5	478-2590-ND	15.00	12.00	10.50	9.00	FFB34D0686K
			110	10	10	1.4	32.0	22.0	37.0	1.00	27.5	478-2591-ND	26.75	21.40	18.73	16.05	FFB54D0117K
		100VDC (60Vrms)	20	10	2.6	3.0	31.1	13.0	22.4	0.80	27.5	478-2592-ND	6.33	5.06	4.43	3.80	FFB14E0206K
			47	10	6.0	1.7	31.1	20.8	31.3	1.00	27.5	478-2593-ND	13.63	10.90	9.54	8.18	FFB44E0476K
			68	10	9.0	1.4	32.0	22.0	37.0	1.00	27.5	478-2594-ND	21.20	16.96	14.84	12.72	FFB54E0686K
		300VDC (90Vrms)	7.5	10	2.4	16	31.1	13.0	22.4	.80	27.5	478-2595-ND	4.00	3.20	2.80	2.40	FFB14H0755K
			18	10	6.0	7.0	31.1	20.8	31.3	1.00	27.5	478-2596-ND	8.95	7.16	6.27	5.37	FFB44H0186K
			27	10	9.0	5.0	32.0	22.0	37.0	1.00	27.5	478-2597-ND	14.58	11.66	10.21	8.75	FFB54H0276K
		400VDC (105Vrms)	6.2	10	2.5	17	31.1	13.0	22.4	.80	27.5	478-2598-ND	3.83	3.06	2.68	2.30	FFB14I0625K
			15	10	6.2	7.0	31.1	20.8	31.3	1.0	27.5	478-2599-ND	8.40	6.72	5.88	5.04	FFB44I0156K
			20	10	8.2	5.5	32.0	22.0	37.0	1.00	27.5	478-2600-ND	12.88	10.30	9.02	7.73	FFB54I0206K
	Polypro-pylene	525VDC (105Vrms)	3.9	10	5.1	30	31.1	13.0	22.4	.80	27.5	478-2601-ND	5.43	4.34	3.80	3.26	FFB16J0395K
			10	10	12	12	31.1	20.8	31.3	1.00	27.5	478-2602-ND	10.58	8.46	7.41	6.35	FFB46J0106K
			13	10	12	9.0	32.0	22.0	37.0	1.00	27.5	478-2603-ND	13.35	10.68	9.35	8.01	FFB56J0136K
		720VDC (120Vrms)	3.3	10	5.0	31	31.1	13.0	22.4	.80	27.5	478-2604-ND	5.15	4.12	3.61	3.09	FFB16A0335K
			7.5	10	11.4	14	31.1	20.8	31.3	1.00	27.5	478-2605-ND	10.08	8.06	7.06	6.05	FFB46A0755K
			10	10	12	11	32.0	22.0	37.0	1.00	27.5	478-2606-ND	12.68	10.14	8.88	7.61	FFB56A0106K
		900VDC (150Vrms)	2.0	10	3.6	41	31.1	13.0	22.4	.80	27.5	478-2607-ND	4.90	3.92	3.43	2.94	FFB16C0205K
			5.1	10	9.3	16	31.1	20.8	31.3	1.00	27.5	478-2608-ND	9.58	7.66	6.71	5.75	FFB46C0515K
			6.8	10	12	12	32.0	22.0	37.0	1.00	27.5	478-2609-ND	12.05	9.64	8.44	7.23	FFB56C0685K
		1100VDC (180Vrms)	1.5	10	3.3	45	31.1	13.0	22.4	.80	27.5	478-2610-ND	4.68	3.74	3.28	2.81	FFB16L0155K
			3.0	10	6.6	23	31.1	20.8	31.3	1.00	27.5	478-2611-ND	9.08	7.26	6.36	5.45	FFB46L0305K
			4.7	10	10.3	15	32.0	22.0	37.0	1.00	27.5	478-2612-ND	11.43	9.14	8.00	6.86	FFB56L0475K

Fig.	Type	Voltage	Capacitance (µF)	Tolerance (%)	Irms Maximum (A)	Rs (mΩ)	Digi-Key Part No.	Price Each 1	10	100	1,000	AVX Part No.
							FFV3 Series					
2	Polyester	75VDC (45Vrms)	160	10	28	.47	478-2613-ND	35.84	31.36	26.88	25.09	FFV34D0167K
		100VDC (60Vrms)	100	10	24	.55	478-2614-ND	31.40	27.48	23.55	21.98	FFV34E0107K
		300VDC (90Vrms)	50	10	26	2.25	478-2615-ND	29.86	26.13	22.40	20.91	FFV34H0506K
		400VDC (105Vrms)	40	10	23	2.21	478-2616-ND	26.90	23.54	20.18	18.83	FFV34I0406K
	Polypro-pylene	500VDC (105Vrms)	20	10	27	5.88	478-2617-ND	22.40	19.60	16.80	15.68	FFV36J0206K
		700VDC (120Vrms)	20	10	30	5.15	478-2618-ND	20.92	18.31	15.69	14.65	FFV36A0206K
		900VDC (150Vrms)	13	10	25	6.33	478-2619-ND	18.68	16.35	14.01	13.08	FFV36C0136K
		1100VDC (180Vrms)	9.0	10	20	7.61	478-2620-ND	17.94	15.70	13.46	12.56	FFV36L0905K

Panasonic® PPS Film Capacitors - ECHS

Non-inductive construction using PPS film as designed for high heat resistance and high frequency applications.

Features: • Wide operating temperature range -40 ~ 125°C • Excellent temperature coefficient -100PPM/°C • Excellent frequency characteristics

Applications: • Automotive • Oscillation circuits

Electrical Specifications: • Temperature Range: -40°C to +125°C • Rated Voltage: 50V DC, 100VDC • Capacitance Range: 0.0001 to 0.47µF • Capacitance Tolerance: ±2%(G) & ±5%(J) • Dissipation Factor: 0.3% maximum at 1kHz and 20°C • Withstand Voltage: 1-5 seconds at 250% of rated voltage between terminals • Insulation Resistance: 45,000MΩ minimum, for values equal to or less than .33µF. 15,000 MΩ/µF minimum, for greater than .33µF (20°C, 100VDC, 60s)

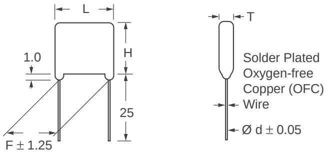

WV DC	Cap. µF	Toler-ance	Dimensions (mm)					Digi-Key Part No.	Price Each				Panasonic Part No.
			L	T	H	F	d		1	10	100	1,000	
50	.001	2%	8.5	4.0	7.6	5.0	0.60	PS1H102G-ND	.66	.57	.48	.29	ECH-S1H102GZ
	.0012	2%	8.5	4.0	7.8	5.0	0.60	PS1H122G-ND	.66	.57	.48	.29	ECH-S1H122GZ
	.0015	2%	8.5	4.0	7.6	5.0	0.60	PS1H152G-ND	.66	.57	.48	.29	ECH-S1H152GZ
	.0018	2%	8.5	4.0	7.6	5.0	0.60	PS1H182G-ND	.66	.57	.48	.29	ECH-S1H182GZ
	.0022	2%	8.5	4.0	7.8	5.0	0.60	PS1H222G-ND	.66	.57	.48	.29	ECH-S1H222GZ
	.0027	2%	8.5	4.0	7.8	5.0	0.60	PS1H272G-ND	.66	.57	.48	.29	ECH-S1H272GZ
	.0033	2%	8.5	4.0	8.0	5.0	0.60	PS1H332G-ND	.66	.57	.48	.29	ECH-S1H332GZ
	.0039	2%	8.5	4.0	7.8	5.0	0.60	PS1H392G-ND	.66	.57	.48	.29	ECH-S1H392GZ
	.0047	2%	8.5	4.0	8.0	5.0	0.60	PS1H472G-ND	.66	.57	.48	.29	ECH-S1H472GZ
	.0056	2%	8.5	4.0	8.2	5.0	0.60	PS1H562G-ND	.66	.57	.48	.29	ECH-S1H562GZ
	.0068	2%	8.5	4.0	7.6	5.0	0.60	PS1H682G-ND	.66	.57	.48	.29	ECH-S1H682GZ
	.0082	2%	8.5	4.0	7.6	5.0	0.60	PS1H822G-ND	.66	.57	.48	.29	ECH-S1H822GZ
	.01	2%	8.5	4.0	7.6	5.0	0.60	PS1H103G-ND	.71	.61	.51	.31	ECH-S1H103GZ
	.012	2%	8.5	4.0	8.0	5.0	0.60	PS1H123G-ND	.77	.67	.56	.33	ECH-S1H123GZ
	.015	2%	12.0	4.5	7.8	7.5	0.60	PS1H153G-ND	.79	.68	.57	.34	ECH-S1H153GZ
	.018	2%	12.0	4.5	8.0	7.5	0.60	PS1H183G-ND	.87	.75	.62	.38	ECH-S1H183GZ
	.022	2%	12.0	4.5	8.2	7.5	0.60	PS1H223G-ND	.94	.81	.68	.41	ECH-S1H223GZ
	.027	2%	12.0	4.5	10.4	7.5	0.60	PS1H273G-ND	1.03	.89	.74	.44	ECH-S1H273GZ
	.033	2%	12.0	4.5	10.6	7.5	0.60	PS1H333G-ND	1.13	.97	.81	.49	ECH-S1H333GZ
	.039	2%	12.0	5.0	10.4	7.5	0.60	PS1H393G-ND	1.22	1.05	.87	.52	ECH-S1H393GZ
	.047	2%	12.0	5.0	10.8	7.5	0.60	PS1H473G-ND	1.31	1.13	.94	.57	ECH-S1H473GZ
	.056	2%	12.0	5.5	11.0	7.5	0.60	PS1H563G-ND	1.45	1.25	1.04	.63	ECH-S1H563GZ
	.068	2%	14.5	5.0	11.2	10.00	0.60	PS1H683G-ND	1.60	1.37	1.15	.69	ECH-S1H683GZ
	.082	2%	14.5	5.5	11.6	10.00	0.60	PS1H823G-ND	1.75	1.50	1.25	.75	ECH-S1H823GZ
	.1	2%	14.5	6.0	12.0	10.00	0.60	PS1H104G-ND	1.95	1.68	1.40	.84	ECH-S1H104GZ
	.12	2%	14.5	6.5	12.4	10.00	0.60	PS1H124G-ND	2.21	1.90	1.58	.95	ECH-S1H124GZ
	.15	2%	17.0	6.5	12.4	12.50	0.60	PS1H154G-ND	2.54	2.18	1.82	1.09	ECH-S1H154GZ
	.18	2%	17.0	6.5	14.0	12.50	0.60	PS1H184G-ND	2.85	2.45	2.04	1.22	ECH-S1H184GZ
	.22	2%	17.0	7.0	14.4	12.50	0.60	PS1H224G-ND	3.22	2.77	2.31	1.38	ECH-S1H224GZ
	.27	2%	17.0	7.5	15.2	12.50	0.80	PS1H274G-ND	3.64	3.13	2.61	1.56	ECH-S1H274GZ
	.33	2%	17.0	8.5	15.8	12.50	0.80	PS1H334G-ND	4.09	3.51	2.93	1.75	ECH-S1H334GZ
	.39	2%	17.0	9.0	16.4	12.50	0.80	PS1H394G-ND	4.53	3.89	3.24	1.94	ECH-S1H394GZ
	.47	2%	17.0	10.0	17.2	12.50	0.80	PS1H474G-ND	5.12	4.39	3.66	2.19	ECH-S1H474GZ
	.001	5%	8.5	4.0	7.6	5.0	0.60	PS1H102J-ND	.26	.23	.19	.12	ECH-S1H102JZ
	.0012	5%	8.5	4.0	7.8	5.0	0.60	PS1H122J-ND	.26	.23	.19	.12	ECH-S1H122JZ
	.0015	5%	8.5	4.0	7.6	5.0	0.60	PS1H152J-ND	.26	.23	.19	.12	ECH-S1H152JZ
	.0018	5%	8.5	4.0	7.6	5.0	0.60	PS1H182J-ND	.26	.23	.19	.12	ECH-S1H182JZ
	.0022	5%	8.5	4.0	7.8	5.0	0.60	PS1H222J-ND	.26	.23	.19	.12	ECH-S1H222JZ
	.0027	5%	8.5	4.0	7.8	5.0	0.60	PS1H272J-ND	.26	.23	.19	.12	ECH-S1H272JZ
	.0033	5%	8.5	4.0	8.0	5.0	0.60	PS1H332J-ND	.26	.23	.19	.12	ECH-S1H332JZ
	.0039	5%	8.5	4.0	7.8	5.0	0.60	PS1H392J-ND	.26	.23	.19	.12	ECH-S1H392JZ
	.0047	5%	8.5	4.0	8.0	5.0	0.60	PS1H472J-ND	.26	.23	.19	.12	ECH-S1H472JZ
	.0056	5%	8.5	4.0	8.2	5.0	0.60	PS1H562J-ND	.26	.23	.19	.12	ECH-S1H562JZ
	.0068	5%	8.5	4.0	7.6	5.0	0.60	PS1H682J-ND	.26	.23	.19	.12	ECH-S1H682JZ
	.0082	5%	8.5	4.0	7.6	5.0	0.60	PS1H822J-ND	.26	.23	.19	.12	ECH-S1H822JZ
	.01	5%	8.5	4.0	7.8	5.0	0.60	PS1H103J-ND	.28	.24	.20	.12	ECH-S1H103JZ
	.012	5%	8.5	4.0	8.0	5.0	0.60	PS1H123J-ND	.32	.28	.23	.14	ECH-S1H123JZ
	.015	5%	12.0	4.5	7.8	7.5	0.60	PS1H153J-ND	.36	.31	.26	.16	ECH-S1H153JZ
	.018	5%	12.0	4.5	8.0	7.5	0.60	PS1H183J-ND	.38	.33	.27	.17	ECH-S1H183JZ
	.022	5%	12.0	4.5	8.2	7.5	0.60	PS1H223J-ND	.44	.38	.32	.19	ECH-S1H223JZ
	.027	5%	12.0	4.5	10.4	7.5	0.60	PS1H273J-ND	.47	.41	.34	.21	ECH-S1H273JZ
	.033	5%	12.0	4.5	10.6	7.5	0.60	PS1H333J-ND	.50	.43	.36	.22	ECH-S1H333JZ
	.039	5%	12.0	5.0	10.4	7.5	0.60	PS1H393J-ND	.52	.45	.37	.23	ECH-S1H393JZ
	.047	5%	12.0	5.0	10.8	7.5	0.60	PS1H473J-ND	.54	.47	.39	.24	ECH-S1H473JZ
	.056	5%	12.0	5.5	11.0	7.5	0.60	PS1H563J-ND	.61	.53	.44	.27	ECH-S1H563JZ
50	.068	5%	14.5	5.0	11.2	10.00	0.60	PS1H683J-ND	.69	.59	.49	.30	ECH-S1H683JZ
	.082	5%	14.5	5.5	11.6	10.00	0.60	PS1H823J-ND	.76	.66	.55	.33	ECH-S1H823JZ
	.1	5%	14.5	6.0	12.0	10.00	0.60	PS1H104J-ND	.88	.76	.63	.38	ECH-S1H104JZ
	.12	5%	14.5	6.5	12.4	10.00	0.60	PS1H124J-ND	1.00	.86	.72	.43	ECH-S1H124JZ
	.15	5%	17.0	6.5	12.4	12.50	0.60	PS1H154J-ND	1.17	1.01	.84	.51	ECH-S1H154JZ
	.18	5%	17.0	6.5	14.0	12.50	0.60	PS1H184J-ND	1.35	1.16	.97	.58	ECH-S1H184JZ
	.22	5%	17.0	7.0	14.4	12.50	0.60	PS1H224J-ND	1.54	1.32	1.10	.66	ECH-S1H224JZ
	.27	5%	17.0	7.5	15.2	12.50	0.80	PS1H274J-ND	1.69	1.46	1.22	.73	ECH-S1H274JZ
	.33	5%	17.0	8.5	15.8	12.50	0.80	PS1H334J-ND	1.88	1.62	1.35	.81	ECH-S1H334JZ
	.39	5%	17.0	9.0	16.4	12.50	0.80	PS1H394J-ND	2.12	1.82	1.52	.91	ECH-S1H394JZ
	.47	5%	17.0	10.0	17.2	12.50	0.80	PS1H474J-ND	2.37	2.04	1.70	1.02	ECH-S1H474JZ
100	.0001	5%	8.5	4.0	6.5	5.0	0.60	PS1101J-ND	.60	.51	.43	.26	ECH-S1101JZ
	.00012	5%	8.5	4.0	6.5	5.0	0.60	PS1121J-ND	.60	.51	.43	.26	ECH-S1121JZ
	.00015	5%	8.5	4.0	6.5	5.0	0.60	PS1151J-ND	.60	.51	.43	.26	ECH-S1151JZ
	.00018	5%	8.5	4.0	6.5	5.0	0.60	PS1181J-ND	.60	.51	.43	.26	ECH-S1181JZ
	.00022	5%	8.5	4.0	6.5	5.0	0.60	PS1221J-ND	.60	.51	.43	.26	ECH-S1221JZ
	.00027	5%	8.5	4.0	6.5	5.0	0.60	PS1271J-ND	.60	.51	.43	.26	ECH-S1271JZ
	.00033	5%	8.5	4.0	6.5	5.0	0.60	PS1331J-ND	.60	.51	.43	.26	ECH-S1331JZ
	.00039	5%	8.5	4.0	6.5	5.0	0.60	PS1391J-ND	.60	.51	.43	.26	ECH-S1391JZ
	.00047	5%	8.5	4.0	6.5	5.0	0.60	PS1471J-ND	.60	.51	.43	.26	ECH-S1471JZ
	.00056	5%	8.5	4.0	6.5	5.0	0.60	PS1561J-ND	.60	.51	.43	.26	ECH-S1561JZ
	.00068	5%	8.5	4.0	6.5	5.0	0.60	PS1681J-ND	.60	.51	.43	.26	ECH-S1681JZ
	.00082	5%	8.5	4.0	6.5	5.0	0.60	PS1821J-ND	.60	.51	.43	.26	ECH-S1821JZ
	.001	5%	10.0	4.5	7.0	5.0	0.60	PS1102J-ND	.39	.34	.28	.17	ECH-S1102JZ
	.0012	5%	10.0	4.5	7.0	5.0	0.60	PS1122J-ND	.39	.34	.28	.17	ECH-S1122JZ
	.0015	5%	10.0	4.5	7.0	5.0	0.60	PS1152J-ND	.39	.34	.28	.17	ECH-S1152JZ
	.0018	5%	10.0	4.5	7.0	5.0	0.60	PS1182J-ND	.39	.34	.28	.17	ECH-S1182JZ
	.0022	5%	10.0	4.5	7.5	5.0	0.60	PS1222J-ND	.39	.34	.28	.17	ECH-S1222JZ
	.0027	5%	10.0	4.5	7.0	5.0	0.60	PS1272J-ND	.39	.34	.28	.17	ECH-S1272JZ
	.0033	5%	10.0	4.5	7.5	5.0	0.60	PS1332J-ND	.39	.34	.28	.17	ECH-S1332JZ
	.0039	5%	10.0	4.5	7.0	5.0	0.60	PS1392J-ND	.39	.34	.28	.17	ECH-S1392JZ
	.0047	5%	10.0	5.0	7.5	5.0	0.60	PS1472J-ND	.40	.35	.29	.18	ECH-S1472JZ
	.0056	5%	12.0	4.5	8.0	7.5	0.60	PS1562J-ND	.47	.41	.34	.21	ECH-S1562JZ
	.0068	5%	12.0	4.5	7.8	7.5	0.60	PS1682J-ND	.47	.41	.34	.21	ECH-S1682JZ
	.0082	5%	12.0	4.5	8.0	7.5	0.60	PS1822J-ND	.47	.41	.34	.21	ECH-S1822JZ
	.01	5%	12.0	4.5	8.0	7.5	0.60	PS1103J-ND	.47	.41	.34	.21	ECH-S1103JZ
	.012	5%	12.0	5.0	8.2	7.5	0.60	PS1123J-ND	.55	.48	.40	.24	ECH-S1123JZ
	.015	5%	12.0	5.0	8.4	7.5	0.60	PS1153J-ND	.55	.48	.40	.24	ECH-S1153JZ
	.018	5%	12.0	5.5	8.8	7.5	0.60	PS1183J-ND	.55	.48	.40	.24	ECH-S1183JZ
	.022	5%	12.0	5.0	10.8	7.5	0.60	PS1223J-ND	.58	.50	.42	.25	ECH-S1223JZ
	.027	5%	12.0	5.5	11.2	7.5	0.60	PS1273J-ND	.61	.53	.44	.27	ECH-S1273JZ
	.033	5%	14.5	5.5	11.2	10.0	0.60	PS1333J-ND	.62	.54	.45	.27	ECH-S1333JZ
	.039	5%	14.5	6.0	11.6	10.0	0.60	PS1393J-ND	.69	.60	.50	.30	ECH-S1393JZ
	.047	5%	14.5	6.0	11.8	10.0	0.60	PS1473J-ND	.70	.60	.50	.30	ECH-S1473JZ
	.056	5%	14.5	6.5	12.2	10.0	0.60	PS1563J-ND	.78	.67	.56	.34	ECH-S1563JZ
	.068	5%	17.0	6.5	12.2	12.5	0.60	PS1683J-ND	.99	.85	.71	.43	ECH-S1683JZ
	.082	5%	17.0	6.5	13.8	12.5	0.60	PS1823J-ND	1.05	.90	.75	.45	ECH-S1823JZ
	.1	5%	17.0	7.0	14.2	12.5	0.60	PS1104J-ND	1.08	.93	.78	.47	ECH-S1104JZ
	.12	5%	17.0	7.5	14.8	12.5	0.60	PS1124J-ND	1.28	1.10	.92	.55	ECH-S1124JZ
	.15	5%	20.5	7.5	15.0	15.0	0.80	PS1154J-ND	1.75	1.50	1.25	.75	ECH-S1154JZ
	.18	5%	20.5	7.5	15.6	15.0	0.80	PS1184J-ND	2.04	1.75	1.46	.88	ECH-S1184JZ
	.22	5%	20.5	8.5	16.2	15.0	0.80	PS1224J-ND	2.04	1.75	1.46	.88	ECH-S1224JZ
	.27	5%	20.5	9.0	17.6	15.0	0.80	PS1274J-ND	2.18	1.88	1.56	.94	ECH-S1274JZ
	.33	5%	20.5	10.0	18.4	15.0	0.80	PS1334J-ND	2.67	2.29	1.91	1.15	ECH-S1334JZ
	.39	5%	20.5	10.5	19.2	15.0	0.80	PS1394J-ND	2.91	2.50	2.08	1.25	ECH-S1394JZ
	.47	5%	20.5	11.5	20.2-	15.0	0.80	PS1474J-ND	2.98	2.56	2.14	1.28	ECH-S1474JZ

Panasonic® Metallized Polyester/Polypropylene Film Capacitors

ECHAX Type – Equipped with a Safety Mechanism

Features:
- Non-inductive construction • Excellent safety characteristics • Flame-retardant epoxy resin dipped enclosure • Small and compact

Application:
- Motor running • Fluorescent lamp ballast

Electrical Specifications:
- Temperature Range: -25°C ~ 70°C • Rated Voltage: 180, 220 and 250VAC • Capacitance Range: 1.0 to 6.0µF • Capacitance Tolerance: ±5%(J) • Dissipation Factor: 0.4% maximum at 50/60Hz and 20°C
- Withstand Voltage: Between Terminals; VAC (rated voltage) x 175% 60s. Between Terminals to Enclosure; 2000VAC 60s
- Insulation Resistance: Between Terminals; 1000Ω Fmin. (20°C 100VDC 60s). Between Terminals to Enclosure; 1000MΩ minimum (20°C 500 VDC 60s)

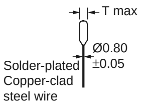

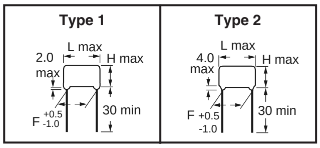

WV AC	Cap. µF	Toler-ance	Dimensions (mm)				Type	Digi-Key Part No.	Price Each				Panasonic Part No.
			L	T	H	F			1	10	100	1,000	
180	1.0	5%	26.5	8.5	17.5	22.5	1	P10937-ND	2.59	2.23	1.75	1.12	ECH-A18105JX
	2.0	5%	26.5	11.5	21.0	22.5	1	P10938-ND	4.04	3.47	2.72	1.74	ECH-A18205JX
	3.0	5%	26.5	14.0	24.0	22.5	1	P10939-ND	5.07	4.35	3.41	2.18	ECH-A18305JX
	4.0	5%	31.5	14.5	24.0	27.5	1	P10940-ND	6.00	5.15	4.03	2.58	ECH-A18405JX
	5.0	5%	31.5	16.5	26.0	27.5	1	P10941-ND	5.96	5.11	4.01	2.56	ECH-A18505JX
	6.0	5%	37.0	16.5	25.5	32.5	1	P10942-ND	8.46	7.25	5.68	3.63	ECH-A18605JX
220	1.0	5%	26.5	10.0	19.5	22.5	1	P10943-ND	3.14	2.69	2.11	1.35	ECH-A22105JX
	2.0	5%	26.5	14.0	23.5	22.5	1	P10944-ND	4.36	3.74	2.93	1.87	ECH-A22205JX
	3.0	5%	31.5	15.5	25.0	27.5	1	P10945-ND	5.24	4.49	3.52	2.25	ECH-A22305JX
	4.0	5%	37.0	16.0	25.5	32.5	1	P10946-ND	3.54	3.03	2.38	1.52	ECH-A22405JX
	5.0	5%	37.0	18.0	27.5	32.5	1	P10947-ND	6.65	5.71	4.47	2.86	ECH-A22505JX
	6.0	5%	37.0	19.5	29.5	32.5	1	P10948-ND	8.45	7.25	5.68	3.63	ECH-A22605JX
250	1.0	5%	26.5	12.0	21.5	22.5	1	P10949-ND	3.27	2.81	2.20	1.41	ECH-A25105JX
	2.0	5%	31.5	15.0	24.5	27.5	1	P10950-ND	4.80	4.12	3.23	2.06	ECH-A25205JX
	3.0	5%	37.0	16.5	26.0	32.5	1	P10951-ND	5.43	4.65	3.65	2.33	ECH-A25305JX
	4.0	5%	37.0	19.5	29.0	32.5	1	P10952-ND	7.31	6.27	4.91	3.14	ECH-A25405JX
	5.0	5%	40.5	20.0	30.0	30.0	2	P10953-ND	9.00	7.72	6.05	3.86	ECH-A25505JX
	6.0	5%	40.5	22.0	32.0	30.0	2	P10954-ND	10.91	9.36	7.33	4.68	ECH-A25605JX

Panasonic® SMT Capacitors

ECW-U (PEN Film, Standand Type) and ECH-U (PPS Film, High Grade Type)

Features: • Small in size • High moisture resistance

Applications: Type ECH-U: • Time constant • Filtering • Oscillation and resonance **Type ECW-U:** • Coupling • By-pass • General purpose

Size Code	Dim. (mm)* L	W	Size Code	Dim. (mm)* L	W
0603 (1608)	1.6	0.8	2820 (7150)	7.1	5.0
0805 (2012)	2.0	1.25	2825 (7163)	7.1	6.3
1206 (3216)	3.2	1.6	3022 (7755)	7.7	5.5
1210 (3225)	3.2	2.5	3925 (9863)	9.8	6.3
1913 (4833)	4.8	3.3	3931 (9880)	9.8	8.0
2416 (6041)	6.0	4.1	6031 (1580)	15.2	8.0
2420 (6050)	6.0	5.0	6039 (1510)	15.2	10.0

* For H measurement, see chart.

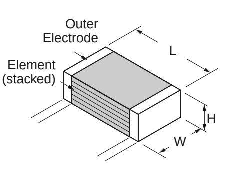

ECW-U(B) Series

Specifications: • Operating Temperature: -55°C ~ 105°C • Rated Voltage: 16VDC, 50VDC • Capacitance Tolerance: 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: C≤0.33µF: ≥3000MΩ (20°C, 10VDC, 50VDC 60s) • Reflow Soldering Conditions: 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
ECW-U(B) (Standard Type) 5% Tolerance, Reflow Only NOT RECOMMENDED FOR NEW DESIGN											
1206 (3216) Size	50	.0033	0.8	PCF1040CT-ND	.50	.44	.34	PCF1040TR-ND	3,000	200.00/M	ECW-U1H332JB5
		.0039	0.8	PCF1041CT-ND	.50	.44	.34	PCF1041TR-ND	3,000	200.00/M	ECW-U1H392JB5
		.0047	0.8	PCF1042CT-ND	.50	.44	.34	PCF1042TR-ND	3,000	200.00/M	ECW-U1H472JB5
		.0056	0.8	PCF1043CT-ND	.53	.46	.36	PCF1043TR-ND	3,000	212.00/M	ECW-U1H562JB5
		.0068	0.8	PCF1044CT-ND	.53	.46	.36	PCF1044TR-ND	3,000	212.00/M	ECW-U1H682JB5
		.0082	1.0	PCF1045CT-ND	.54	.47	.36	PCF1045TR-ND	3,000	216.00/M	ECW-U1H822JB5
		.01	1.0	PCF1046CT-ND	.55	.48	.37	PCF1046TR-ND	3,000	218.00/M	ECW-U1H103JB5
1210 (3225) Size	50	.012	1.0	PCF1047CT-ND	.56	.49	.37	PCF1047TR-ND	2,000	222.00/M	ECW-U1H123JB5
		.015	1.0	PCF1048CT-ND	.57	.49	.38	PCF1048TR-ND	2,000	225.00/M	ECW-U1H153JB5
		.018	1.4	PCF1049CT-ND	.58	.51	.39	PCF1049TR-ND	2,000	231.00/M	ECW-U1H183JB5
		.022	1.4	PCF1050CT-ND	.59	.52	.40	PCF1050TR-ND	2,000	236.00/M	ECW-U1H223JB5
		.027	1.4	PCF1051CT-ND	.60	.52	.40	PCF1051TR-ND	2,000	240.00/M	ECW-U1H273JB5
		.033	2.0	PCF1052CT-ND	.61	.53	.41	PCF1052TR-ND	2,000	242.00/M	ECW-U1H333JB5
		.039	2.0	PCF1053CT-ND	.63	.55	.42	PCF1053TR-ND	2,000	252.00/M	ECW-U1H393JB5
		.047	2.0	PCF1054CT-ND	.65	.56	.43	PCF1054TR-ND	2,000	258.00/M	ECW-U1H473JB5
1913 (4833)	50	.082	2.0	PCF1057CT-ND	.84	.73	.56	—	—	—	ECW-U1H823JB9

ECW-U(C) Series

Specifications: • Operating Temperature: (16VDC, 50VDC) -55°C ~ 105°C; (100VDC, 250VDC) -40°C ~ 85°C • Rated Voltage: 16, 50, 100, and 250VDC • Withstanding Voltage Between Terminals: (16VDC, 50VDC) Rated Voltage x 175% 1 to 5s; (100VDC or 250VDC) Rated Voltage x 150% 60s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: (C≤0.33µF) ≥3000MΩ; (C>0.33µF) 1000MΩ • Reflow Soldering Conditions: (16VDC, 50VDC) 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface); (100VDC, 250VDC) 230°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
ECW-U(C) (Standard Type) 5% Tolerance, Reflow Only											
1913 (4833) Size	16	.12	1.4	PCF1137CT-ND	.72	.62	.48	PCF1137TR-ND	3,000	285.00/M	ECW-U1C124JC9
		.15	2.0	PCF1138CT-ND	.75	.65	.50	PCF1138TR-ND	3,000	300.00/M	ECW-U1C154JC9
		.18	4.8	PCF1139CT-ND	.83	.72	.55	PCF1139TR-ND	3,000	330.00/M	ECW-U1C184JC9
		.22	4.8	PCF1140CT-ND	.90	.78	.60	PCF1140TR-ND	2,000	360.00/M	ECW-U1C224JC9
2416 (6041) Size	16	.27	1.8	PCF1141CT-ND	.98	.85	.65	PCF1141TR-ND	3,000	390.00/M	ECW-U1C274JC9
		.33	2.0	PCF1142CT-ND	1.05	.91	.70	PCF1142TR-ND	3,000	420.00/M	ECW-U1C334JC9
		.39	2.4	PCF1143CT-ND	1.13	.98	.75	PCF1143TR-ND	2,000	450.00/M	ECW-U1C394JC9
		.47	2.8	PCF1144CT-ND	1.20	1.04	.80	PCF1144TR-ND	2,000	480.00/M	ECW-U1C474JC9
1913 (4833) Size	50	.056	2.0	PCF1145CT-ND	.60	.52	.40	PCF1145TR-ND	3,000	240.00/M	ECW-U1H563JC9
		.068	2.0	PCF1146CT-ND	.60	.52	.40	PCF1146TR-ND	3,000	240.00/M	ECW-U1H683JC9
		.082	2.4	PCF1147CT-ND	.68	.59	.45	PCF1147TR-ND	2,000	270.00/M	ECW-U1H823JC9
		.1	2.8	PCF1148CT-ND	.75	.65	.50	PCF1148TR-ND	2,000	300.00/M	ECW-U1H104JC9
2416 (6041) Size	50	.12	1.8	PCF1149CT-ND	.90	.78	.60	PCF1149TR-ND	3,000	360.00/M	ECW-U1H124JC9
		.15	2.0	PCF1150CT-ND	1.05	.91	.70	PCF1150TR-ND	3,000	420.00/M	ECW-U1H154JC9
		.18	2.4	PCF1151CT-ND	1.20	1.04	.80	PCF1151TR-ND	2,000	480.00/M	ECW-U1H184JC9
		.22	2.8	PCF1152CT-ND	1.35	1.17	.90	PCF1152TR-ND	2,000	540.00/M	ECW-U1H224JC9
1913 (4833) Size	100	.012	1.4	PCF1209CT-ND	.53	.46	.35	PCF1209TR-ND	3,000	208.00/M	ECW-U1123JC9
		.015	1.4	PCF1210CT-ND	.53	.46	.35	PCF1210TR-ND	3,000	208.00/M	ECW-U1153JC9
		.018	1.4	PCF1211CT-ND	.53	.46	.35	PCF1211TR-ND	3,000	208.00/M	ECW-U1183JC9
		.022	1.4	PCF1212CT-ND	.53	.46	.35	PCF1212TR-ND	3,000	208.00/M	ECW-U1223JC9
		.027	1.4	PCF1213CT-ND	.53	.46	.35	PCF1213TR-ND	3,000	208.00/M	ECW-U1273JC9
		.033	1.4	PCF1214CT-ND	.53	.46	.35	PCF1214TR-ND	3,000	208.00/M	ECW-U1333JC9
		.039	1.4	PCF1215CT-ND	.53	.46	.35	PCF1215TR-ND	3,000	208.00/M	ECW-U1393JC9
1913 (4833) Size	100	.047	2.0	PCF1216CT-ND	.66	.57	.44	PCF1216TR-ND	3,000	261.00/M	ECW-U1473JC9
		.056	2.0	PCF1217CT-ND	.66	.57	.44	PCF1217TR-ND	3,000	261.00/M	ECW-U1563JC9
		.068	2.4	PCF1218CT-ND	.79	.68	.53	PCF1218TR-ND	2,000	313.00/M	ECW-U1683JC9
		.082	2.8	PCF1219CT-ND	.85	.74	.57	PCF1219TR-ND	2,000	339.00/M	ECW-U1823JC9
2416 (6041) Size	100	.1	1.8	PCF1220CT-ND	.92	.80	.61	PCF1220TR-ND	3,000	366.00/M	ECW-U1104JC9
		.12	2.4	PCF1221CT-ND	1.05	.91	.70	PCF1221TR-ND	2,000	416.00/M	ECW-U1124JC9
		.15	2.8	PCF1222CT-ND	1.18	1.02	.79	PCF1222TR-ND	2,000	469.00/M	ECW-U1154JC9
1913 (4833) Size	250	.001	1.4	PCF1361CT-ND	.59	.51	.40	PCF1361TR-ND	3,000	234.00/M	ECW-U2102JC9
		.0012	1.4	PCF1362CT-ND	.59	.51	.40	PCF1362TR-ND	3,000	234.00/M	ECW-U2122JC9
		.0015	1.4	PCF1363CT-ND	.59	.51	.40	PCF1363TR-ND	3,000	234.00/M	ECW-U2152JC9
		.0018	1.4	PCF1364CT-ND	.59	.51	.40	PCF1364TR-ND	3,000	234.00/M	ECW-U2182JC9
		.0022	1.4	PCF1365CT-ND	.59	.51	.40	PCF1365TR-ND	3,000	234.00/M	ECW-U2222JC9
		.0027	1.4	PCF1366CT-ND	.59	.51	.40	PCF1366TR-ND	3,000	234.00/M	ECW-U2272JC9
		.0033	1.4	PCF1367CT-ND	.59	.51	.40	PCF1367TR-ND	3,000	234.00/M	ECW-U2332JC9
		.0039	1.4	PCF1368CT-ND	.59	.51	.40	PCF1368TR-ND	3,000	234.00/M	ECW-U2392JC9
		.0047	1.4	PCF1369CT-ND	.59	.51	.40	PCF1369TR-ND	3,000	234.00/M	ECW-U2472JC9
		.0056	1.4	PCF1370CT-ND	.59	.51	.40	PCF1370TR-ND	3,000	234.00/M	ECW-U2562JC9
		.0068	1.4	PCF1371CT-ND	.59	.51	.40	PCF1371TR-ND	3,000	234.00/M	ECW-U2682JC9
		.0082	1.4	PCF1372CT-ND	.59	.51	.40	PCF1372TR-ND	3,000	234.00/M	ECW-U2822JC9
		.01	1.4	PCF1373CT-ND	.59	.51	.40	PCF1373TR-ND	3,000	234.00/M	ECW-U2103JC9
		.012	1.4	PCF1374CT-ND	.59	.51	.40	PCF1374TR-ND	3,000	234.00/M	ECW-U2123JC9
		.015	1.4	PCF1375CT-ND	.59	.51	.40	PCF1375TR-ND	3,000	234.00/M	ECW-U2153JC9
		.018	2.0	PCF1376CT-ND	.66	.57	.44	PCF1376TR-ND	3,000	261.00/M	ECW-U2183JC9
		.022	2.0	PCF1377CT-ND	.66	.57	.44	PCF1377TR-ND	3,000	261.00/M	ECW-U2223JC9
		.027	2.4	PCF1378CT-ND	.79	.68	.53	PCF1378TR-ND	2,000	313.00/M	ECW-U2273JC9
		.033	2.8	PCF1379CT-ND	.85	.74	.57	PCF1379TR-ND	2,000	339.00/M	ECW-U2333JC9
2416 (6041) Size	250	.039	2.0	PCF1380CT-ND	.92	.80	.61	PCF1380TR-ND	3,000	366.00/M	ECW-U2393JC9
		.047	2.4	PCF1381CT-ND	.98	.85	.65	PCF1381TR-ND	2,000	390.00/M	ECW-U2473JC9
		.056	2.8	PCF1382CT-ND	1.05	.91	.70	PCF1382TR-ND	2,000	416.00/M	ECW-U2563JC9
		.068	3.2	PCF1383CT-ND	.99	.86	.66	PCF1383TR-ND	2,000	393.00/M	ECW-U2683JC9
2420 (6050) Size	250	.082	3.2	PCF1384CT-ND	1.56	1.36	1.04	PCF1384TR-ND	1,500	624.00/M	ECW-U2823JC9
		.1	3.8	PCF1385CT-ND	1.38	1.20	.92	PCF1385TR-ND	1,500	551.00/M	ECW-U2104JC9
		.12	4.5	PCF1386CT-ND	1.74	1.51	1.16	PCF1386TR-ND	1,500	693.00/M	ECW-U2124JC9
ECW-U(C) (Standard Type) 10% Tolerance, Reflow Only											
1913 (4833) Size	100	.012	1.4	PCF1223CT-ND	.47	.41	.32	PCF1223TR-ND	3,000	188.00/M	ECW-U1123KC9
		.015	1.4	PCF1224CT-ND	.47	.41	.32	PCF1224TR-ND	3,000	188.00/M	ECW-U1153KC9
		.018	1.4	PCF1225CT-ND	.47	.41	.32	PCF1225TR-ND	3,000	188.00/M	ECW-U1183KC9
		.022	1.4	PCF1226CT-ND	.47	.41	.32	PCF1226TR-ND	3,000	188.00/M	ECW-U1223KC9
1913 (4833) Size	100	.027	1.4	PCF1227CT-ND	.47	.41	.32	PCF1227TR-ND	3,000	188.00/M	ECW-U1273KC9
		.033	1.4	PCF1228CT-ND	.47	.41	.32	PCF1228TR-ND	3,000	188.00/M	ECW-U1333KC9
		.039	1.4	PCF1229CT-ND	.47	.41	.32	PCF1229TR-ND	3,000	188.00/M	ECW-U1393KC9
		.047	2.0	PCF1230CT-ND	.59	.51	.40	PCF1230TR-ND	3,000	234.00/M	ECW-U1473KC9
		.056	2.0	PCF1231CT-ND	.59	.51	.40	PCF1231TR-ND	3,000	234.00/M	ECW-U1563KC9
		.068	2.4	PCF1232CT-ND	.71	.61	.47	PCF1232TR-ND	2,000	281.00/M	ECW-U1683KC9
		.082	2.8	PCF1233CT-ND	.77	.67	.51	PCF1233TR-ND	2,000	306.00/M	ECW-U1823KC9
2416 (6041) Size	100	.1	1.8	PCF1234CT-ND	.83	.72	.55	PCF1234TR-ND	3,000	328.00/M	ECW-U1104KC9
		.12	2.4	PCF1235CT-ND	.94	.82	.63	PCF1235TR-ND	2,000	375.00/M	ECW-U1124KC9
		.15	2.8	PCF1236CT-ND	1.06	.92	.71	PCF1236TR-ND	2,000	422.00/M	ECW-U1154KC9
2820 (7150) Size	100	.18	2.0	PCF1237CT-ND	1.18	1.02	.79	PCF1237TR-ND	1,500	469.00/M	ECW-U1184KC9
		.22	2.4	PCF1238CT-ND	1.31	1.13	.87	PCF1238TR-ND	1,500	521.00/M	ECW-U1224KC9
		.27	2.9	PCF1239CT-ND	1.34	1.16	.90	PCF1239TR-ND	1,500	534.00/M	ECW-U1274KC9
		.33	3.5	PCF1240CT-ND	1.36	1.18	.91	PCF1240TR-ND	1,500	544.00/M	ECW-U1334KC9
3022 (7755)	100	.39	3.4	PCF1241CT-ND	1.41	1.22	.94	PCF1241TR-ND	1,000	561.00	ECW-U1394KCV
		.47	4.0	PCF1242CT-ND	1.44	1.25	.96	PCF1242TR-ND	1,000	574.00	ECW-U1474KCV
3925 (9863) Size	100	.56	3.0	PCF1243CT-ND	1.50	1.30	1.00	PCF1243TR-ND	1,000	598.00	ECW-U1564KCV
		.68	3.6	PCF1244CT-ND	1.57	1.36	1.05	PCF1244TR-ND	1,000	624.00	ECW-U1684KCV
		.82	4.3	PCF1245CT-ND	1.63	1.41	1.09	PCF1245TR-ND	1,000	651.00	ECW-U1824KCV
		1.0	5.1	PCF1246CT-ND	1.70	1.47	1.13	PCF1246TR-ND	1,000	677.00	ECW-U1105KCV
1913 (4833) Size	250	.001	1.4	PCF1247CT-ND	.53	.46	.35	PCF1247TR-ND	3,000	208.00/M	ECW-U2102KC9
		.0012	1.4	PCF1248CT-ND	.53	.46	.35	PCF1248TR-ND	3,000	208.00/M	ECW-U2122KC9
		.0015	1.4	PCF1249CT-ND	.53	.46	.35	PCF1249TR-ND	3,000	208.00/M	ECW-U2152KC9
		.0018	1.4	PCF1250CT-ND	.53	.46	.35	PCF1250TR-ND	3,000	208.00/M	ECW-U2182KC9
		.0022	1.4	PCF1251CT-ND	.53	.46	.35	PCF1251TR-ND	3,000	208.00/M	ECW-U2222KC9
		.0027	1.4	PCF1252CT-ND	.53	.46	.35	PCF1252TR-ND	3,000	208.00/M	ECW-U2272KC9
		.0033	1.4	PCF1253CT-ND	.53	.46	.35	PCF1253TR-ND	3,000	208.00/M	ECW-U2332KC9
		.0039	1.4	PCF1254CT-ND	.53	.46	.35	PCF1254TR-ND	3,000	208.00/M	ECW-U2392KC9
		.0047	1.4	PCF1255CT-ND	.53	.46	.35	PCF1255TR-ND	3,000	208.00/M	ECW-U2472KC9
		.0056	1.4	PCF1256CT-ND	.53	.46	.35	PCF1256TR-ND	3,000	208.00/M	ECW-U2562KC9
		.0068	1.4	PCF1257CT-ND	.53	.46	.35	PCF1257TR-ND	3,000	208.00/M	ECW-U2682KC9
		.0082	1.4	PCF1258CT-ND	.53	.46	.35	PCF1258TR-ND	3,000	208.00/M	ECW-U2822KC9
		.01	1.4	PCF1259CT-ND	.53	.46	.35	PCF1259TR-ND	3,000	208.00/M	ECW-U2103KC9
		.012	1.4	PCF1260CT-ND	.53	.46	.35	PCF1260TR-ND	3,000	208.00/M	ECW-U2123KC9
		.015	1.4	PCF1261CT-ND	.53	.46	.35	PCF1261TR-ND	3,000	208.00/M	ECW-U2153KC9
		.018	2.0	PCF1262CT-ND	.59	.51	.40	PCF1262TR-ND	3,000	234.00/M	ECW-U2183KC9
		.022	2.0	PCF1263CT-ND	.59	.51	.40	PCF1263TR-ND	3,000	234.00/M	ECW-U2223KC9
		.027	2.4	PCF1264CT-ND	.71	.61	.47	PCF1264TR-ND	2,000	281.00/M	ECW-U2273KC9
		.033	2.8	PCF1265CT-ND	.77	.67	.51	PCF1265TR-ND	2,000	306.00/M	ECW-U2333KC9
2416 (6041) Size	250	.039	2.0	PCF1266CT-ND	.83	.72	.55	PCF1266TR-ND	3,000	328.00/M	ECW-U2393KC9
		.047	2.4	PCF1267CT-ND	.89	.77	.59	PCF1267TR-ND	2,000	353.00/M	ECW-U2473KC9
		.056	2.8	PCF1268CT-ND	.94	.82	.63	PCF1268TR-ND	2,000	375.00/M	ECW-U2563KC9

(Continued)

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
ECW-U(C) (Standard Type) 10% Tolerance, Reflow Only											
2420 (6050) Size	250	.068	3.2	PCF1269CT-ND	1.00	.87	.67	PCF1269TR-ND	2,000	399.00/M	ECW-U2683KC9
		.082	3.2	PCF1270CT-ND	1.06	.92	.71	PCF1270TR-ND	1,500	422.00/M	ECW-U2823KC9
		.1	3.8	PCF1271CT-ND	1.12	.97	.75	PCF1271TR-ND	1,500	446.00/M	ECW-U2104KC9
		.12	2.8	PCF1272CT-ND	1.18	1.02	.79	PCF1272TR-ND	1,500	469.00/M	ECW-U2124KC9
2825 (7163) Size	250	.15	3.5	PCF1273CT-ND	1.44	1.25	.96	PCF1273TR-ND	1,000	574.00	ECW-U2154KCV
		.18	4.1	PCF1274CT-ND	1.57	1.36	1.05	PCF1274TR-ND	1,000	624.00	ECW-U2184KCV
		.22	5.1	PCF1275CT-ND	1.70	1.47	1.13	PCF1275TR-ND	1,000	677.00	ECW-U2224KCV
3925 (9863)	250	.27	3.9	PCF1276CT-ND	1.83	1.59	1.22	PCF1276TR-ND	1,000	729.00	ECW-U2274KCV
		.33	4.8	PCF1277CT-ND	1.95	1.69	1.30	PCF1277TR-ND	1,000	780.00	ECW-U2334KCV
3931 (9880)	250	.39	4.4	PCF1278CT-ND	2.09	1.81	1.39	PCF1278TR-ND	1,000	833.00	ECW-U2394KCV
		.47	5.3	PCF1279CT-ND	2.22	1.92	1.48	PCF1279TR-ND	1,000	885.00	ECW-U2474KCV
6031 (1580)	250	.56	3.7	PCF1280CT-ND	2.61	2.26	1.74	PCF1280TR-ND	750	780.75	ECW-U2564KCZ
		.68	4.4	PCF1281CT-ND	3.26	2.82	2.17	PCF1281TR-ND	750	975.75	ECW-U2684KCZ
6039 (1510)	250	.82	4.2	PCF1282CT-ND	3.58	3.10	2.39	PCF1282TR-ND	750	1073.25	ECW-U2824KCZ
		1.0	5.1	PCF1283CT-ND	3.90	3.38	2.60	PCF1283TR-ND	750	1170.00	ECW-U2105KCZ

ECW-U(X) Series

Specifications: • Operating Temperature: -55°C ~ 105°C • Rated Voltage: 100VDC • Withstanding Voltage Between Terminals: Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 100VDC 60s) • Reflow Soldering Conditions: 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
ECW-U(X) (Standard Type) 5% Tolerance, Reflow Only											
1206 (3216) Size	100	.001	1.1	PCF1348CT-ND	.46	.40	.31	PCF1348TR-ND	3,000	184.00/M	ECW-U1102JX5
		.0012	1.1	PCF1349CT-ND	.46	.40	.31	PCF1349TR-ND	3,000	184.00/M	ECW-U1122JX5
		.0015	1.1	PCF1350CT-ND	.46	.40	.31	PCF1350TR-ND	3,000	184.00/M	ECW-U1152JX5
		.0018	1.1	PCF1351CT-ND	.46	.40	.31	PCF1351TR-ND	3,000	184.00/M	ECW-U1182JX5
		.0022	1.1	PCF1352CT-ND	.46	.40	.31	PCF1352TR-ND	3,000	184.00/M	ECW-U1222JX5
		.0027	1.1	PCF1353CT-ND	.46	.40	.31	PCF1353TR-ND	3,000	184.00/M	ECW-U1272JX5
		.0033	1.5	PCF1354CT-ND	.46	.40	.31	PCF1354TR-ND	2,000	184.00/M	ECW-U1332JX5
		.0039	1.5	PCF1355CT-ND	.46	.40	.31	PCF1355TR-ND	2,000	184.00/M	ECW-U1392JX5
		.0047	1.5	PCF1356CT-ND	.46	.40	.31	PCF1356TR-ND	2,000	184.00/M	ECW-U1472JX5
1210 (3225) Size	100	.0056	1.5	PCF1357CT-ND	.49	.43	.33	PCF1357TR-ND	2,000	195.00/M	ECW-U1562JX5
		.0068	1.5	PCF1358CT-ND	.49	.43	.33	PCF1358TR-ND	2,000	195.00/M	ECW-U1682JX5
		.0082	2.1	PCF1359CT-ND	.49	.43	.33	PCF1359TR-ND	2,000	195.00/M	ECW-U1822JX5
		.01	2.1	PCF1360CT-ND	.49	.43	.33	PCF1360TR-ND	2,000	195.00/M	ECW-U1103JX5

ECW-U (V16) and (V17) Series

Specifications: • Operating Temperature: -55°C ~ 105°C • Rated Voltage: 250VDC, 400VDC • Withstanding Voltage Between Terminals: (250VDC) 400VDC for 60s; (400VDC) 600VDC for 60s • Dissipation Factor: ≤1.0% (20°C, 1kHz) • Insulation Resistance: (250VDC) ≥3000MΩ • Reflow Soldering Conditions: 230°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
ECW-U(V16) (Standard Type) 5% Tolerance, Reflow Only											
1913 (4883) Size	250	.001	1.4	PCF1390CT-ND	.47	.41	.32	PCF1390TR-ND	3,000	188.00/M	ECW-U2102V16
		.0012	1.4	PCF1391CT-ND	.47	.41	.32	PCF1391TR-ND	3,000	188.00/M	ECW-U2122V16
		.0015	1.4	PCF1392CT-ND	.47	.41	.32	PCF1392TR-ND	3,000	188.00/M	ECW-U2152V16
		.0018	1.4	PCF1393CT-ND	.47	.41	.32	PCF1393TR-ND	3,000	188.00/M	ECW-U2182V16
		.0022	1.4	PCF1394CT-ND	.47	.41	.32	PCF1394TR-ND	3,000	188.00/M	ECW-U2222V16
		.0033	1.4	PCF1395CT-ND	.47	.41	.32	PCF1395TR-ND	3,000	188.00/M	ECW-U2332V16
		.0047	1.4	PCF1396CT-ND	.47	.41	.32	PCF1396TR-ND	3,000	188.00/M	ECW-U2472V16
		.0056	1.4	PCF1397CT-ND	.47	.41	.32	PCF1397TR-ND	3,000	188.00/M	ECW-U2562V16
		.0068	1.4	PCF1398CT-ND	.47	.41	.32	PCF1398TR-ND	3,000	188.00/M	ECW-U2682V16
		.0082	1.4	PCF1399CT-ND	.47	.41	.32	PCF1399TR-ND	3,000	188.00/M	ECW-U2822V16
		.01	1.4	PCF1400CT-ND	.47	.41	.32	PCF1400TR-ND	3,000	188.00/M	ECW-U2103V16
		.012	1.4	PCF1401CT-ND	.47	.41	.32	PCF1401TR-ND	3,000	188.00/M	ECW-U2123V16
		.015	1.4	PCF1402CT-ND	.47	.41	.32	PCF1402TR-ND	3,000	188.00/M	ECW-U2153V16
		.018	2.0	PCF1403CT-ND	.53	.46	.35	PCF1403TR-ND	3,000	209.00/M	ECW-U2183V16
		.022	2.0	PCF1404CT-ND	.53	.46	.35	PCF1404TR-ND	3,000	209.00/M	ECW-U2223V16
		.027	2.4	PCF1405CT-ND	.63	.54	.42	PCF1405TR-ND	2,000	249.00/M	ECW-U2273V16
		.033	2.8	PCF1406CT-ND	.68	.59	.45	PCF1406TR-ND	2,000	270.00/M	ECW-U2333V16
2416 (6041) Size	250	.039	2.0	PCF1407CT-ND	.73	.64	.49	PCF1407TR-ND	3,000	291.00/M	ECW-U2393V16
		.047	2.4	PCF1408CT-ND	.78	.68	.52	PCF1408TR-ND	2,000	312.00/M	ECW-U2473V16
		.056	2.8	PCF1409CT-ND	.84	.73	.56	PCF1409TR-ND	2,000	333.00/M	ECW-U2563V16
		.068	3.2	PCF1410CT-ND	.89	.77	.59	PCF1410TR-ND	2,000	354.00/M	ECW-U2683V16
2420 (6050) Size	250	.082	3.2	PCF1411CT-ND	.94	.82	.63	PCF1411TR-ND	1,500	375.00/M	ECW-U2823V16
		.1	3.8	PCF1412CT-ND	.99	.86	.66	PCF1412TR-ND	1,500	395.00/M	ECW-U2104V16
		.12	4.5	PCF1413CT-ND	1.04	.91	.70	PCF1413TR-ND	1,500	416.00/M	ECW-U2124V16
ECW-U(V17) (Standard Type) 5% Tolerance, Reflow Only											
1913 (4833) Size	400	.001	1.4	PCF1414CT-ND	.53	.46	.35	PCF1414TR-ND	3,000	209.00/M	ECW-U4102V17
		.0012	1.4	PCF1415CT-ND	.53	.46	.35	PCF1415TR-ND	3,000	209.00/M	ECW-U4122V17
		.0015	1.4	PCF1416CT-ND	.53	.46	.35	PCF1416TR-ND	3,000	209.00/M	ECW-U4152V17
		.0018	1.4	PCF1417CT-ND	.53	.46	.35	PCF1417TR-ND	3,000	209.00/M	ECW-U4182V17
		.0022	1.4	PCF1418CT-ND	.53	.46	.35	PCF1418TR-ND	3,000	209.00/M	ECW-U4222V17
1913 (4833) Size	400	.0027	1.4	PCF1419CT-ND	.53	.46	.35	PCF1419TR-ND	3,000	209.00/M	ECW-U4272V17
		.0033	1.4	PCF1420CT-ND	.53	.46	.35	PCF1420TR-ND	3,000	209.00/M	ECW-U4332V17
		.0039	1.4	PCF1421CT-ND	.53	.46	.35	PCF1421TR-ND	3,000	209.00/M	ECW-U4392V17
		.0047	1.4	PCF1422CT-ND	.53	.46	.35	PCF1422TR-ND	3,000	209.00/M	ECW-U4472V17
		.0056	2.0	PCF1423CT-ND	.53	.46	.35	PCF1423TR-ND	3,000	209.00/M	ECW-U4562V17
		.0068	2.0	PCF1424CT-ND	.53	.46	.35	PCF1424TR-ND	3,000	209.00/M	ECW-U4682V17
		.0082	2.4	PCF1425CT-ND	.60	.52	.40	PCF1425TR-ND	2,000	239.00/M	ECW-U4822V17
		.01	2.8	PCF1426CT-ND	.63	.54	.42	PCF1426TR-ND	2,000	249.00/M	ECW-U4103V17
2416 (6041) Size	400	.012	2.0	PCF1427CT-ND	.68	.59	.45	PCF1427TR-ND	3,000	270.00/M	ECW-U4123V17
		.015	2.4	PCF1428CT-ND	.73	.64	.49	PCF1428TR-ND	2,000	291.00/M	ECW-U4153V17
		.018	2.8	PCF1429CT-ND	.78	.68	.52	PCF1429TR-ND	2,000	312.00/M	ECW-U4183V17
		.022	3.2	PCF1430CT-ND	.84	.73	.56	PCF1430TR-ND	2,000	333.00/M	ECW-U4223V17
2420 (6050)	400	.027	3.0	PCF1431CT-ND	.92	.79	.61	PCF1431TR-ND	1,500	365.00/M	ECW-U4273V17
		.033	3.6	PCF1432CT-ND	.99	.86	.66	PCF1432TR-ND	1,500	395.00/M	ECW-U4333V17
2820 (7150)	400	.039	3.2	PCF1433CT-ND	.99	.86	.66	PCF1433TR-ND	1,500	395.00/M	ECW-U4393V17
		.047	3.8	PCF1434CT-ND	1.04	.91	.70	PCF1434TR-ND	1,500	416.00/M	ECW-U4473V17
2825 (7163)	400	.056	3.6	PCF1435CT-ND	1.04	.91	.70	PCF1435TR-ND	1,000	416.00	ECW-U4563V17
		.068	4.4	PCF1436CT-ND	1.10	.95	.73	PCF1436TR-ND	1,000	437.00	ECW-U4683V17
3925 (9863)	400	.082	3.4	PCF1437CT-ND	1.10	.95	.73	PCF1437TR-ND	1,000	437.00	ECW-U4823V17
		.1	4.0	PCF1438CT-ND	1.17	1.02	.78	PCF1438TR-ND	1,000	468.00	ECW-U4104V17
3931 (9880)	400	.12	3.8	PCF1439CT-ND	1.17	1.02	.78	PCF1439TR-ND	1,000	468.00	ECW-U4124V17
		.15	4.6	PCF1440CT-ND	1.25	1.09	.84	PCF1440TR-ND	1,000	500.00	ECW-U4154V17

ECH-U(B) Series

Specifications: • Operating Temperature: -55°C ~ 125°C • Rated Voltage: 50VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Soldering Conditions: (Flow) 260°C maximum and 5 seconds maximum; (Reflow) 260°C maximum, 30 seconds maximum at more than 230°C (temperature at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
ECH-U(B) (High Grade Type) 2% Tolerance Reflow/Flow NOT RECOMMENDED FOR NEW DESIGN											
0805 (2012) Size	50	.0001	0.8	PCF1089CT-ND	.62	.54	.42	PCF1089TR-ND	3,000	248.00/M	ECH-U1H101GB5
		.00012	0.8	PCF1090CT-ND	.62	.54	.42	PCF1090TR-ND	3,000	248.00/M	ECH-U1H121GB5
		.00015	0.8	PCF1091CT-ND	.62	.54	.42	PCF1091TR-ND	3,000	248.00/M	ECH-U1H151GB5
		.00018	0.8	PCF1092CT-ND	.62	.54	.42	PCF1092TR-ND	3,000	248.00/M	ECH-U1H181GB5
		.00022	0.8	PCF1093CT-ND	.62	.54	.42	PCF1093TR-ND	3,000	248.00/M	ECH-U1H221GB5
		.00027	0.8	PCF1094CT-ND	.62	.54	.42	PCF1094TR-ND	3,000	248.00/M	ECH-U1H271GB5
		.00033	0.8	PCF1095CT-ND	.62	.54	.42	PCF1095TR-ND	3,000	248.00/M	ECH-U1H331GB5
		.00039	0.8	PCF1096CT-ND	.62	.54	.42	PCF1096TR-ND	3,000	248.00/M	ECH-U1H391GB5
		.00047	0.8	PCF1097CT-ND	.62	.54	.42	PCF1097TR-ND	3,000	248.00/M	ECH-U1H471GB5
		.00056	0.8	PCF1098CT-ND	.62	.54	.42	PCF1098TR-ND	3,000	248.00/M	ECH-U1H561GB5
		.00068	0.8	PCF1099CT-ND	.62	.54	.42	PCF1099TR-ND	3,000	248.00/M	ECH-U1H681GB5
		.00082	0.8	PCF1100CT-ND	.62	.54	.42	PCF1100TR-ND	3,000	248.00/M	ECH-U1H821GB5
		.001	0.8	PCF1101CT-ND	.62	.54	.42	PCF1101TR-ND	3,000	248.00/M	ECH-U1H102GB5
		.0012	0.8	PCF1102CT-ND	.62	.54	.42	PCF1102TR-ND	3,000	248.00/M	ECH-U1H122GB5
		.0015	0.8	PCF1103CT-ND	.62	.54	.42	PCF1103TR-ND	3,000	248.00/M	ECH-U1H152GB5
		.0018	0.8	PCF1104CT-ND	.62	.54	.42	PCF1104TR-ND	3,000	248.00/M	ECH-U1H182GB5
		.0022	0.8	PCF1105CT-ND	.62	.54	.42	PCF1105TR-ND	3,000	248.00/M	ECH-U1H222GB5
		.0027	0.8	PCF1106CT-ND	.62	.54	.42	PCF1106TR-ND	3,000	248.00/M	ECH-U1H272GB5
1206 (3216) Size	50	.0033	0.8	PCF1107CT-ND	.73	.63	.49	PCF1107TR-ND	3,000	290.00/M	ECH-U1H332GB5
		.0039	0.8	PCF1108CT-ND	.74	.65	.50	PCF1108TR-ND	3,000	296.00/M	ECH-U1H392GB5
		.0047	0.8	PCF1109CT-ND	.77	.66	.51	PCF1109TR-ND	3,000	305.00/M	ECH-U1H472GB5
		.0056	0.8	PCF1110CT-ND	.79	.68	.53	PCF1110TR-ND	3,000	314.00/M	ECH-U1H562GB5
		.0068	0.8	PCF1111CT-ND	.81	.70	.54	PCF1111TR-ND	3,000	323.00/M	ECH-U1H682GB5
		.0082	1.0	PCF1112CT-ND	.83	.72	.56	PCF1112TR-ND	3,000	332.00/M	ECH-U1H822GB5
		.01	1.0	PCF1113CT-ND	.86	.74	.57	PCF1113TR-ND	3,000	341.00/M	ECH-U1H103GB5
1210 (3225) Size	50	.012	1.0	PCF1114CT-ND	.87	.76	.58	PCF1114TR-ND	2,000	347.00/M	ECH-U1H123GB5
		.015	1.0	PCF1115CT-ND	.90	.78	.60	PCF1115TR-ND	2,000	357.00/M	ECH-U1H153GB5
		.018	1.4	PCF1116CT-ND	.92	.80	.62	PCF1116TR-ND	2,000	368.00/M	ECH-U1H183GB5
		.022	1.4	PCF1117CT-ND	.96	.83	.64	PCF1117TR-ND	2,000	381.00/M	ECH-U1H223GB5
		.027	1.4	PCF1118CT-ND	1.00	.87	.67	PCF1118TR-ND	2,000	399.00/M	ECH-U1H273GB5
		.033	2.0	PCF1119CT-ND	1.05	.91	.70	PCF1119TR-ND	2,000	417.00/M	ECH-U1H333GB5
		.039	2.0	PCF1120CT-ND	1.10	.95	.73	PCF1120TR-ND	2,000	437.00/M	ECH-U1H393GB5
ECH-U(B) (High Grade Type) 5% Tolerance Reflow/Flow NOT RECOMMENDED FOR NEW DESIGN											
0805 (2012) Size	16	.0033	0.8	PCF1070CT-ND	.49	.43	.33	PCF1070TR-ND	3,000	195.00/M	ECH-U1C332JB5
		.0039	0.8	PCF1071CT-ND	.49	.43	.33	PCF1071TR-ND	3,000	195.00/M	ECH-U1C392JB5
		.0047	0.8	PCF1072CT-ND	.49	.43	.33	PCF1072TR-ND	3,000	195.00/M	ECH-U1C472JB5
		.0056	0.8	PCF1073CT-ND	.49	.43	.33	PCF1073TR-ND	3,000	195.00/M	ECH-U1C562JB5
		.0068	0.8	PCF1074CT-ND	.49	.43	.33	PCF1074TR-ND	3,000	195.00/M	ECH-U1C682JB5
		.0082	1.0	PCF1075CT-ND	.49	.43	.33	PCF1075TR-ND	3,000	195.00/M	ECH-U1C822JB5
		.01	1.0	PCF1076CT-ND	.41	.35	.27	PCF1076TR-ND	3,000	160.00/M	ECH-U1C103JB5
1206 (3216) Size	16	.012	0.8	PCF1077CT-ND	.52	.45	.35	PCF1077TR-ND	3,000	206.00/M	ECH-U1C123JB5
		.015	0.8	PCF1078CT-ND	.54	.47	.36	PCF1078TR-ND	3,000	213.00/M	ECH-U1C153JB5
		.018	0.8	PCF1079CT-ND	.54	.47	.36	PCF1079TR-ND	3,000	213.00/M	ECH-U1C183JB5
		.022	0.8	PCF1080CT-ND	.58	.50	.39	PCF1080TR-ND	3,000	230.00/M	ECH-U1C223JB5
		.027	1.0	PCF1081CT-ND	.59	.52	.40	PCF1081TR-ND	3,000	236.00/M	ECH-U1C273JB5
		.033	1.0	PCF1082CT-ND	.61	.53	.41	PCF1082TR-ND	3,000	243.00/M	ECH-U1C333JB5
		.039	1.4	PCF1083CT-ND	.64	.55	.43	PCF1083TR-ND	2,000	254.00/M	ECH-U1C393JB5
		.047	1.4	PCF1084CT-ND	.56	.48	.37	PCF1084TR-ND	2,000	221.00/M	ECH-U1C473JB5

(Continued)

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECH-U(B) (High Grade Type) 5% Tolerance Reflow/Flow NOT RECOMMENDED FOR NEW DESIGN											
1210 (3225) Size	16	.056	1.4	PCF1085CT-ND	.74	.64	.49	PCF1085TR-ND	2,000	294.00/M	ECH-U1C563JB5
		.068	1.4	PCF1086CT-ND	.79	.69	.53	PCF1086TR-ND	2,000	315.00/M	ECH-U1C683JB5
		.082	2.0	PCF1087CT-ND	.85	.74	.57	PCF1087TR-ND	2,000	339.00/M	ECH-U1C823JB5
		.1	2.0	PCF1088CT-ND	.90	.78	.60	PCF1088TR-ND	2,000	359.00/M	ECH-U1C104JB5
0805 (2012) Size	50	.0001	0.8	PCF1000CT-ND	.50	.44	.34	PCF1000TR-ND	3,000	200.00/M	ECH-U1H101JB5
		.00012	0.8	PCF1001CT-ND	.50	.44	.34	PCF1001TR-ND	3,000	200.00/M	ECH-U1H121JB5
		.00015	0.8	PCF1002CT-ND	.50	.44	.34	PCF1002TR-ND	3,000	200.00/M	ECH-U1H151JB5
		.00018	0.8	PCF1003CT-ND	.50	.44	.34	PCF1003TR-ND	3,000	200.00/M	ECH-U1H181JB5
		.00022	0.8	PCF1004CT-ND	.50	.44	.34	PCF1004TR-ND	3,000	200.00/M	ECH-U1H221JB5
		.00027	0.8	PCF1005CT-ND	.50	.44	.34	PCF1005TR-ND	3,000	200.00/M	ECH-U1H271JB5
		.00033	0.8	PCF1006CT-ND	.50	.44	.34	PCF1006TR-ND	3,000	200.00/M	ECH-U1H331JB5
		.00039	0.8	PCF1007CT-ND	.50	.44	.34	PCF1007TR-ND	3,000	200.00/M	ECH-U1H391JB5
		.00047	0.8	PCF1008CT-ND	.50	.44	.34	PCF1008TR-ND	3,000	200.00/M	ECH-U1H471JB5
		.00056	0.8	PCF1009CT-ND	.50	.44	.34	PCF1009TR-ND	3,000	200.00/M	ECH-U1H561JB5
		.00068	0.8	PCF1010CT-ND	.50	.44	.34	PCF1010TR-ND	3,000	200.00/M	ECH-U1H681JB5
		.00082	0.8	PCF1011CT-ND	.50	.44	.34	PCF1011TR-ND	3,000	200.00/M	ECH-U1H821JB5
		.001	0.8	PCF1012CT-ND	.40	.35	.27	PCF1012TR-ND	3,000	158.00/M	ECH-U1H102JB5
		.0012	0.8	PCF1013CT-ND	.50	.44	.34	PCF1013TR-ND	3,000	200.00/M	ECH-U1H122JB5
		.0015	0.8	PCF1014CT-ND	.50	.44	.34	PCF1014TR-ND	3,000	200.00/M	ECH-U1H152JB5
		.0018	0.8	PCF1015CT-ND	.50	.44	.34	PCF1015TR-ND	3,000	200.00/M	ECH-U1H182JB5
		.0022	0.8	PCF1016CT-ND	.39	.34	.26	PCF1016TR-ND	3,000	154.00/M	ECH-U1H222JB5
		.0027	0.8	PCF1017CT-ND	.50	.44	.34	PCF1017TR-ND	3,000	200.00/M	ECH-U1H272JB5
1206 (3216) Size	50	.0033	0.8	PCF1018CT-ND	.59	.51	.39	PCF1018TR-ND	3,000	234.00/M	ECH-U1H332JB5
		.0039	0.8	PCF1019CT-ND	.60	.52	.40	PCF1019TR-ND	3,000	240.00/M	ECH-U1H392JB5
		.0047	0.8	PCF1020CT-ND	.62	.54	.42	PCF1020TR-ND	3,000	248.00/M	ECH-U1H472JB5
		.0056	0.8	PCF1021CT-ND	.64	.55	.43	PCF1021TR-ND	3,000	254.00/M	ECH-U1H562JB5
		.0068	0.8	PCF1022CT-ND	.66	.57	.44	PCF1022TR-ND	3,000	261.00/M	ECH-U1H682JB5
		.0082	1.0	PCF1023CT-ND	.67	.58	.45	PCF1023TR-ND	3,000	266.00/M	ECH-U1H822JB5
		.01	1.0	PCF1024CT-ND	.69	.60	.46	PCF1024TR-ND	3,000	276.00/M	ECH-U1H103JB5
1210 (3225) Size	50	.012	1.0	PCF1025CT-ND	.71	.62	.47	PCF1025TR-ND	2,000	282.00/M	ECH-U1H123JB5
		.015	1.0	PCF1026CT-ND	.73	.63	.49	PCF1026TR-ND	2,000	290.00/M	ECH-U1H153JB5
		.018	1.4	PCF1027CT-ND	.75	.65	.50	PCF1027TR-ND	2,000	297.00/M	ECH-U1H183JB5
		.022	1.4	PCF1028CT-ND	.77	.67	.52	PCF1028TR-ND	2,000	308.00/M	ECH-U1H223JB5
		.027	1.4	PCF1029CT-ND	.80	.70	.54	PCF1029TR-ND	2,000	320.00/M	ECH-U1H273JB5
		.033	2.0	PCF1030CT-ND	.66	.57	.44	PCF1030TR-ND	2,000	263.00/M	ECH-U1H333JB5
		.039	2.0	PCF1031CT-ND	.88	.77	.59	PCF1031TR-ND	2,000	351.00/M	ECH-U1H393JB5

ECH-U(C) Series

Specifications: • Operating Temperature: -55°C ~ 125°C • Rated Voltage: 50VDC, 100VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Soldering Conditions: (Flow) 260°C maximum and 5 seconds maximum; (Reflow) 260°C maximum, 30 seconds maximum at more than 230°C (temperature at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECH-U(C) (High Grade Type) 2% Tolerance Reflow/Flow											
1913 (4833) Size	50	.047	1.4	PCF1162CT-ND	.52	.45	.35	PCF1162TR-ND	3,000	207.00/M	ECH-U1H473GC9
		.056	2.0	PCF1163CT-ND	.56	.48	.37	PCF1163TR-ND	3,000	221.00/M	ECH-U1H563GC9
		.068	2.0	PCF1164CT-ND	.59	.51	.39	PCF1164TR-ND	3,000	234.00/M	ECH-U1H683GC9
		.082	2.4	PCF1165CT-ND	.65	.57	.44	PCF1165TR-ND	2,000	259.00/M	ECH-U1H823GC9
		.1	2.8	PCF1166CT-ND	.72	.62	.48	PCF1166TR-ND	2,000	285.00/M	ECH-U1H104GC9
2416 (6041) Size	50	.12	1.8	PCF1167CT-ND	.88	.76	.59	PCF1167TR-ND	3,000	350.00/M	ECH-U1H124GC9
		.15	2.4	PCF1168CT-ND	1.00	.87	.67	PCF1168TR-ND	2,000	400.00/M	ECH-U1H154GC9
		.18	2.8	PCF1169CT-ND	1.14	.99	.76	PCF1169TR-ND	2,000	456.00/M	ECH-U1H184GC9
		.22	3.2	PCF1170CT-ND	1.30	1.13	.87	PCF1170TR-ND	2,000	517.00/M	ECH-U1H224GC9
1913 (4833) Size	100	.01	1.4	PCF1494CT-ND	.71	.61	.47	PCF1494TR-ND	3,000	281.00/M	ECH-U1103GC9
		.012	1.4	PCF1495CT-ND	.71	.61	.47	PCF1495TR-ND	3,000	281.00/M	ECH-U1123GC9
		.015	2.0	PCF1496CT-ND	.71	.61	.47	PCF1496TR-ND	3,000	281.00/M	ECH-U1153GC9
		.018	2.0	PCF1497CT-ND	.71	.61	.47	PCF1497TR-ND	3,000	281.00/M	ECH-U1183GC9
		.022	2.4	PCF1498CT-ND	.78	.68	.52	PCF1498TR-ND	2,000	310.00/M	ECH-U1223GC9
		.027	2.8	PCF1499CT-ND	.80	.70	.54	PCF1499TR-ND	2,000	320.00/M	ECH-U1273GC9
2416 (6041) Size	100	.033	1.8	PCF1500CT-ND	.95	.82	.63	PCF1500TR-ND	3,000	378.00/M	ECH-U1333GC9
		.039	2.0	PCF1501CT-ND	.97	.84	.65	PCF1501TR-ND	3,000	387.00/M	ECH-U1393GC9
		.047	2.4	PCF1502CT-ND	1.02	.89	.68	PCF1502TR-ND	2,000	407.00/M	ECH-U1473GC9
		.056	2.8	PCF1503CT-ND	1.05	.91	.70	PCF1503TR-ND	2,000	417.00/M	ECH-U1563GC9
		.068	3.2	PCF1504CT-ND	1.12	.97	.75	PCF1504TR-ND	2,000	446.00/M	ECH-U1683GC9
2820 (7150) Size	100	.082	2.8	PCF1505CT-ND	1.41	1.22	.94	PCF1505TR-ND	1,500	562.00/M	ECH-U1823GC9
		.1	3.0	PCF1506CT-ND	1.41	1.22	.94	PCF1506TR-ND	1,500	562.00/M	ECH-U1104GC9
		.12	3.4	PCF1507CT-ND	1.47	1.28	.98	PCF1507TR-ND	1,500	586.00/M	ECH-U1124GC9
2825 (7163) Size	100	.15	3.4	PCF1508CT-ND	1.61	1.40	1.08	PCF1508TR-ND	1,000	644.00	ECH-U1154GCV
		.18	4.0	PCF1509CT-ND	1.80	1.56	1.20	PCF1509TR-ND	1,000	719.00	ECH-U1184GCV
		.22	4.8	PCF1510CT-ND	1.97	1.71	1.31	PCF1510TR-ND	1,000	785.00	ECH-U1224GCV
ECH-U(C) (High Grade Type) 5% Tolerance Reflow/Flow											
1913 (4833) Size	50	.047	1.4	PCF1153CT-ND	.50	.43	.33	PCF1153TR-ND	3,000	197.00/M	ECH-U1H473JC9
		.056	2.0	PCF1154CT-ND	.53	.46	.36	PCF1154TR-ND	3,000	211.00/M	ECH-U1H563JC9
		.068	2.0	PCF1155CT-ND	.56	.49	.38	PCF1155TR-ND	3,000	222.00/M	ECH-U1H683JC9
		.082	2.4	PCF1156CT-ND	.62	.54	.42	PCF1156TR-ND	2,000	247.00/M	ECH-U1H823JC9
		.1	2.8	PCF1157CT-ND	.68	.59	.45	PCF1157TR-ND	2,000	269.00/M	ECH-U1H104JC9
2416 (6041) Size	50	.12	1.8	PCF1158CT-ND	.84	.73	.56	PCF1158TR-ND	3,000	333.00/M	ECH-U1H124JC9
		.15	2.4	PCF1159CT-ND	.95	.83	.64	PCF1159TR-ND	2,000	380.00/M	ECH-U1H154JC9
		.18	2.8	PCF1160CT-ND	1.25	1.09	.84	PCF1160TR-ND	2,000	500.00/M	ECH-U1H184JC9
		.22	3.2	PCF1161CT-ND	1.24	1.08	.83	PCF1161TR-ND	2,000	494.00/M	ECH-U1H224JC9
1913 (4833) Size	100	.01	1.4	PCF1477CT-ND	.63	.55	.42	PCF1477TR-ND	3,000	252.00/M	ECH-U1103JC9
		.012	1.4	PCF1478CT-ND	.63	.55	.42	PCF1478TR-ND	3,000	252.00/M	ECH-U1123JC9
		.015	2.0	PCF1479CT-ND	.63	.55	.42	PCF1479TR-ND	3,000	252.00/M	ECH-U1153JC9
		.018	2.0	PCF1480CT-ND	.63	.55	.42	PCF1480TR-ND	3,000	252.00/M	ECH-U1183JC9
		.022	2.4	PCF1481CT-ND	.66	.57	.44	PCF1481TR-ND	2,000	262.00/M	ECH-U1223JC9
		.027	2.8	PCF1482CT-ND	.68	.59	.46	PCF1482TR-ND	2,000	271.00/M	ECH-U1273JC9
2416 (6041) Size	100	.033	1.8	PCF1483CT-ND	.80	.70	.54	PCF1483TR-ND	3,000	320.00/M	ECH-U1333JC9
		.039	2.0	PCF1484CT-ND	.84	.73	.56	PCF1484TR-ND	3,000	334.00/M	ECH-U1393JC9
		.047	2.4	PCF1485CT-ND	.88	.76	.59	PCF1485TR-ND	2,000	349.00/M	ECH-U1473JC9
		.056	2.8	PCF1486CT-ND	.89	.77	.59	PCF1486TR-ND	2,000	354.00/M	ECH-U1563JC9
		.068	3.2	PCF1487CT-ND	.93	.80	.62	PCF1487TR-ND	2,000	368.00/M	ECH-U1683JC9
2820 (7150) Size	100	.082	2.8	PCF1488CT-ND	1.26	1.10	.84	PCF1488TR-ND	1,500	504.00/M	ECH-U1823JC9
		.1	3.0	PCF1489CT-ND	1.31	1.14	.88	PCF1489TR-ND	1,500	523.00/M	ECH-U1104JC9
		.12	3.4	PCF1490CT-ND	1.32	1.15	.89	PCF1490TR-ND	1,500	528.00/M	ECH-U1124JC9
2825 (7163) Size	100	.15	3.4	PCF1491CT-ND	1.44	1.25	.96	PCF1491TR-ND	1,000	573.00	ECH-U1154JCV
		.18	4.0	PCF1492CT-ND	1.58	1.37	1.06	PCF1492TR-ND	1,000	632.00	ECH-U1184JCV
		.22	4.8	PCF1493CT-ND	1.72	1.49	1.15	PCF1493TR-ND	1,000	686.00	ECH-U1224JCV

ECH-U(X) Series

Specifications: • Operating Temperature: -55°C ~ 125°C • Rated Voltage: 10VDC, 16VDC, 50VDC • Capacitance Tolerance: 2%, 5% • Withstanding Voltage (between terminals): Rated Voltage x 175% 1 to 5s • Dissipation Factor: ≤0.6% (20°C, 1kHz) • Insulation Resistance: ≥3000MΩ (20°C, 60s) • Reflow Soldering Conditions: 260°C maximum, 30 seconds maximum at more than 230°C (temperature at cap surface).

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					10	100	500		Size	Pricing	
ECH-U(X) (High Grade Type) 2% Tolerance, Reflow Only											
0603 (1608) Size	10	.0033	0.7	PCF1523CT-ND	.30	.26	.20	PCF1523TR-ND	4,000	118.00/M	ECH-U01332GX5
		.0039	0.7	PCF1524CT-ND	.30	.26	.20	PCF1524TR-ND	4,000	118.00/M	ECH-U01392GX5
		.0047	0.7	PCF1525CT-ND	.30	.26	.20	PCF1525TR-ND	4,000	118.00/M	ECH-U01472GX5
		.0056	0.7	PCF1526CT-ND	.30	.26	.20	PCF1526TR-ND	4,000	118.00/M	ECH-U01562GX5
	16	.0001	.7	PCF1441CT-ND	.28	.24	.19	PCF1441TR-ND	4,000	110.00/M	ECH-U1C101GX5
		.00012	.7	PCF1442CT-ND	.28	.24	.19	PCF1442TR-ND	4,000	110.00/M	ECH-U1C121GX5
		.00015	.7	PCF1443CT-ND	.28	.24	.19	PCF1443TR-ND	4,000	110.00/M	ECH-U1C151GX5
		.00018	.7	PCF1444CT-ND	.28	.24	.19	PCF1444TR-ND	4,000	110.00/M	ECH-U1C181GX5
		.00022	.7	PCF1445CT-ND	.28	.24	.19	PCF1445TR-ND	4,000	110.00/M	ECH-U1C221GX5
		.00027	.7	PCF1446CT-ND	.28	.24	.19	PCF1446TR-ND	4,000	110.00/M	ECH-U1C271GX5
		.00033	.7	PCF1447CT-ND	.28	.24	.19	PCF1447TR-ND	4,000	110.00/M	ECH-U1C331GX5
		.00039	.7	PCF1448CT-ND	.28	.24	.19	PCF1448TR-ND	4,000	110.00/M	ECH-U1C391GX5
		.00047	.7	PCF1449CT-ND	.28	.24	.19	PCF1449TR-ND	4,000	110.00/M	ECH-U1C471GX5
		.00056	.7	PCF1450CT-ND	.28	.24	.19	PCF1450TR-ND	4,000	110.00/M	ECH-U1C561GX5
		.00068	.7	PCF1451CT-ND	.28	.24	.19	PCF1451TR-ND	4,000	110.00/M	ECH-U1C681GX5
		.00082	.7	PCF1452CT-ND	.28	.24	.19	PCF1452TR-ND	4,000	110.00/M	ECH-U1C821GX5
		.001	.7	PCF1453CT-ND	.28	.24	.19	PCF1453TR-ND	4,000	110.00/M	ECH-U1C102GX5
		.0012	.7	PCF1454CT-ND	.28	.24	.19	PCF1454TR-ND	4,000	110.00/M	ECH-U1C122GX5
		.0015	.7	PCF1455CT-ND	.28	.24	.19	PCF1455TR-ND	4,000	110.00/M	ECH-U1C152GX5
		.0018	.7	PCF1456CT-ND	.28	.24	.19	PCF1456TR-ND	4,000	110.00/M	ECH-U1C182GX5
		.0022	.7	PCF1457CT-ND	.28	.24	.19	PCF1457TR-ND	4,000	110.00/M	ECH-U1C222GX5
		.0027	.7	PCF1458CT-ND	.28	.24	.19	PCF1458TR-ND	4,000	110.00/M	ECH-U1C272GX5
0805 (2012) Size	10	.0068	0.9	PCF1527CT-ND	.30	.26	.20	PCF1527TR-ND	3,000	118.00/M	ECH-U01682GX5
		.0082	0.9	PCF1528CT-ND	.30	.26	.20	PCF1528TR-ND	3,000	118.00/M	ECH-U01822GX5
		.01	0.9	PCF1529CT-ND	.30	.26	.20	PCF1529TR-ND	3,000	118.00/M	ECH-U01103GX5
		.012	0.9	PCF1530CT-ND	.36	.31	.24	PCF1530TR-ND	3,000	143.00/M	ECH-U01123GX5
		.015	0.9	PCF1531CT-ND	.36	.31	.24	PCF1531TR-ND	3,000	143.00/M	ECH-U01153GX5
		.018	0.9	PCF1532CT-ND	.36	.31	.24	PCF1532TR-ND	3,000	143.00/M	ECH-U01183GX5
		.022	1.1	PCF1533CT-ND	.36	.31	.24	PCF1533TR-ND	3,000	143.00/M	ECH-U01223GX5
		.027	1.1	PCF1534CT-ND	.39	.34	.26	PCF1534TR-ND	3,000	156.00/M	ECH-U01273GX5
	16	.0033	0.9	PCF1171CT-ND	.32	.28	.22	PCF1171TR-ND	3,000	127.00/M	ECH-U1C332GX5
		.0039	0.9	PCF1172CT-ND	.32	.28	.22	PCF1172TR-ND	3,000	127.00/M	ECH-U1C392GX5
		.0047	0.9	PCF1173CT-ND	.32	.28	.22	PCF1173TR-ND	3,000	127.00/M	ECH-U1C472GX5
		.0056	0.9	PCF1174CT-ND	.32	.28	.22	PCF1174TR-ND	3,000	127.00/M	ECH-U1C562GX5
		.0068	0.9	PCF1175CT-ND	.32	.28	.22	PCF1175TR-ND	3,000	127.00/M	ECH-U1C682GX5
		.0082	1.1	PCF1176CT-ND	.35	.31	.24	PCF1176TR-ND	3,000	139.00/M	ECH-U1C822GX5
		.01	1.1	PCF1177CT-ND	.35	.31	.24	PCF1177TR-ND	3,000	139.00/M	ECH-U1C103GX5
1206 (3216) Size	16	.012	0.9	PCF1178CT-ND	.39	.34	.26	PCF1178TR-ND	3,000	154.00/M	ECH-U1C123GX5
		.015	0.9	PCF1179CT-ND	.39	.34	.26	PCF1179TR-ND	3,000	154.00/M	ECH-U1C153GX5
		.018	0.9	PCF1180CT-ND	.39	.34	.26	PCF1180TR-ND	3,000	154.00/M	ECH-U1C183GX5
		.022	0.9	PCF1181CT-ND	.39	.34	.26	PCF1181TR-ND	3,000	154.00/M	ECH-U1C223GX5
		.027	1.1	PCF1182CT-ND	.42	.37	.28	PCF1182TR-ND	3,000	168.00/M	ECH-U1C273GX5
		.033	1.1	PCF1183CT-ND	.42	.37	.28	PCF1183TR-ND	3,000	168.00/M	ECH-U1C333GX5
		.039	1.5	PCF1184CT-ND	.46	.40	.31	PCF1184TR-ND	2,000	182.00/M	ECH-U1C393GX5
		.047	1.5	PCF1185CT-ND	.46	.40	.31	PCF1185TR-ND	2,000	182.00/M	ECH-U1C473GX5
1210 (3225) Size	16	.056	1.5	PCF1186CT-ND	.53	.46	.35	PCF1186TR-ND	2,000	209.00/M	ECH-U1C563GX5
		.068	1.5	PCF1187CT-ND	.53	.46	.35	PCF1187TR-ND	2,000	209.00/M	ECH-U1C683GX5
		.082	2.1	PCF1188CT-ND	.63	.55	.42	PCF1188TR-ND	2,000	252.00/M	ECH-U1C823GX5
		0.1	2.1	PCF1189CT-ND	.63	.55	.42	PCF1189TR-ND	2,000	252.00/M	ECH-U1C104GX5
0805 (2012) Size	50	.0001	0.9	PCF1284CT-ND	.31	.27	.21	PCF1284TR-ND	3,000	122.00/M	ECH-U1H101GX5
		.00012	0.9	PCF1285CT-ND	.31	.27	.21	PCF1285TR-ND	3,000	122.00/M	ECH-U1H121GX5
		.00015	0.9	PCF1286CT-ND	.31	.27	.21	PCF1286TR-ND	3,000	122.00/M	ECH-U1H151GX5
		.00018	0.9	PCF1287CT-ND	.31	.27	.21	PCF1287TR-ND	3,000	122.00/M	ECH-U1H181GX5
		.00022	0.9	PCF1288CT-ND	.31	.27	.21	PCF1288TR-ND	3,000	122.00/M	ECH-U1H221GX5
		.00027	0.9	PCF1289CT-ND	.31	.27	.21	PCF1289TR-ND	3,000	122.00/M	ECH-U1H271GX5

(Continued)

Panasonic SMT Capacitors *(Cont.)*

Item Code	WV DC	Cap. µF	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
ECH-U(X) (High Grade Type) 2% Tolerance, Reflow Only											
0805 (2012) Size	50	.00033	0.9	PCF1290CT-ND	.31	.27	.21	PCF1290TR-ND	3,000	122.00/M	ECH-U1H331GX5
		.00039	0.9	PCF1291CT-ND	.31	.27	.21	PCF1291TR-ND	3,000	122.00/M	ECH-U1H391GX5
		.00047	0.9	PCF1292CT-ND	.31	.27	.21	PCF1292TR-ND	3,000	122.00/M	ECH-U1H471GX5
		.00056	0.9	PCF1293CT-ND	.31	.27	.21	PCF1293TR-ND	3,000	122.00/M	ECH-U1H561GX5
		.00068	0.9	PCF1294CT-ND	.31	.27	.21	PCF1294TR-ND	3,000	122.00/M	ECH-U1H681GX5
		.00082	0.9	PCF1295CT-ND	.31	.27	.21	PCF1295TR-ND	3,000	122.00/M	ECH-U1H821GX5
		.001	0.9	PCF1296CT-ND	.31	.27	.21	PCF1296TR-ND	3,000	122.00/M	ECH-U1H102GX5
		.0012	0.9	PCF1297CT-ND	.31	.27	.21	PCF1297TR-ND	3,000	122.00/M	ECH-U1H122GX5
		.0015	0.9	PCF1298CT-ND	.31	.27	.21	PCF1298TR-ND	3,000	122.00/M	ECH-U1H152GX5
		.0018	0.9	PCF1299CT-ND	.31	.27	.21	PCF1299TR-ND	3,000	122.00/M	ECH-U1H182GX5
		.0022	0.9	PCF1300CT-ND	.31	.27	.21	PCF1300TR-ND	3,000	122.00/M	ECH-U1H222GX5
		.0027	0.9	PCF1301CT-ND	.31	.27	.21	PCF1301TR-ND	3,000	122.00/M	ECH-U1H272GX5
1206 (3216) Size	50	.0033	0.9	PCF1302CT-ND	.39	.34	.26	PCF1302TR-ND	3,000	154.00/M	ECH-U1H332GX5
		.0039	0.9	PCF1303CT-ND	.39	.34	.26	PCF1303TR-ND	3,000	154.00/M	ECH-U1H392GX5
		.0047	0.9	PCF1304CT-ND	.39	.34	.26	PCF1304TR-ND	3,000	154.00/M	ECH-U1H472GX5
		.0056	0.9	PCF1305CT-ND	.39	.34	.26	PCF1305TR-ND	3,000	154.00/M	ECH-U1H562GX5
		.0068	0.9	PCF1306CT-ND	.39	.34	.26	PCF1306TR-ND	3,000	154.00/M	ECH-U1H682GX5
		.0082	1.1	PCF1307CT-ND	.42	.37	.28	PCF1307TR-ND	3,000	168.00/M	ECH-U1H822GX5
		.01	1.1	PCF1308CT-ND	.42	.37	.28	PCF1308TR-ND	3,000	168.00/M	ECH-U1H103GX5
1210 (3225) Size	50	.012	1.1	PCF1309CT-ND	.42	.37	.28	PCF1309TR-ND	2,000	168.00/M	ECH-U1H123GX5
		.015	1.1	PCF1310CT-ND	.42	.37	.28	PCF1310TR-ND	2,000	168.00/M	ECH-U1H153GX5
		.018	1.5	PCF1311CT-ND	.46	.40	.31	PCF1311TR-ND	2,000	182.00/M	ECH-U1H183GX5
		.022	1.5	PCF1312CT-ND	.46	.40	.31	PCF1312TR-ND	2,000	182.00/M	ECH-U1H223GX5
		.027	1.5	PCF1313CT-ND	.46	.40	.31	PCF1313TR-ND	2,000	182.00/M	ECH-U1H273GX5
		.033	2.1	PCF1314CT-ND	.53	.46	.35	PCF1314TR-ND	2,000	209.00/M	ECH-U1H333GX5
		.039	2.1	PCF1315CT-ND	.53	.46	.35	PCF1315TR-ND	2,000	209.00/M	ECH-U1H393GX5
ECH-U(X) (High Grade Type) 5% Tolerance, Reflow Only											
0603 (1608) Size	10	.0033	0.7	PCF1511CT-ND	.28	.25	.19	PCF1511TR-ND	4,000	111.00/M	ECH-U01332JX5
		.0039	0.7	PCF1512CT-ND	.28	.25	.19	PCF1512TR-ND	4,000	111.00/M	ECH-U01392JX5
		.0047	0.7	PCF1513CT-ND	.28	.25	.19	PCF1513TR-ND	4,000	111.00/M	ECH-U01472JX5
		.0056	0.7	PCF1514CT-ND	.28	.25	.19	PCF1514TR-ND	4,000	111.00/M	ECH-U01562JX5
	16	.0001	.7	PCF1459CT-ND	.27	.23	.18	PCF1459TR-ND	4,000	105.00/M	ECH-U1C101JX5
		.00012	.7	PCF1460CT-ND	.27	.23	.18	PCF1460TR-ND	4,000	105.00/M	ECH-U1C121JX5
		.00015	.7	PCF1461CT-ND	.27	.23	.18	PCF1461TR-ND	4,000	105.00/M	ECH-U1C151JX5
		.00018	.7	PCF1462CT-ND	.27	.23	.18	PCF1462TR-ND	4,000	105.00/M	ECH-U1C181JX5
		.00022	.7	PCF1463CT-ND	.27	.23	.18	PCF1463TR-ND	4,000	105.00/M	ECH-U1C221JX5
		.00027	.7	PCF1464CT-ND	.27	.23	.18	PCF1464TR-ND	4,000	105.00/M	ECH-U1C271JX5
		.00033	.7	PCF1465CT-ND	.27	.23	.18	PCF1465TR-ND	4,000	105.00/M	ECH-U1C331JX5
		.00039	.7	PCF1466CT-ND	.27	.23	.18	PCF1466TR-ND	4,000	105.00/M	ECH-U1C391JX5
		.00047	.7	PCF1467CT-ND	.27	.23	.18	PCF1467TR-ND	4,000	105.00/M	ECH-U1C471JX5
		.00056	.7	PCF1468CT-ND	.27	.23	.18	PCF1468TR-ND	4,000	105.00/M	ECH-U1C561JX5
		.00068	.7	PCF1469CT-ND	.27	.23	.18	PCF1469TR-ND	4,000	105.00/M	ECH-U1C681JX5
		.00082	.7	PCF1470CT-ND	.27	.23	.18	PCF1470TR-ND	4,000	105.00/M	ECH-U1C821JX5
		.001	.7	PCF1471CT-ND	.27	.23	.18	PCF1471TR-ND	4,000	105.00/M	ECH-U1C102JX5
		.0012	.7	PCF1472CT-ND	.27	.23	.18	PCF1472TR-ND	4,000	105.00/M	ECH-U1C122JX5
		.0015	.7	PCF1473CT-ND	.27	.23	.18	PCF1473TR-ND	4,000	105.00/M	ECH-U1C152JX5
		.0018	.7	PCF1474CT-ND	.27	.23	.18	PCF1474TR-ND	4,000	105.00/M	ECH-U1C182JX5
		.0022	.7	PCF1475CT-ND	.27	.23	.18	PCF1475TR-ND	4,000	105.00/M	ECH-U1C222JX5
		.0027	.7	PCF1476CT-ND	.27	.23	.18	PCF1476TR-ND	4,000	105.00/M	ECH-U1C272JX5
0805 (2012) Size	10	.0068	0.9	PCF1515CT-ND	.28	.25	.19	PCF1515TR-ND	3,000	111.00/M	ECH-U01682JX5
		.0082	0.9	PCF1516CT-ND	.28	.25	.19	PCF1516TR-ND	3,000	111.00/M	ECH-U01822JX5
		.01	0.9	PCF1517CT-ND	.28	.25	.19	PCF1517TR-ND	3,000	111.00/M	ECH-U01103JX5
0805 (2012) Size	10	.012	0.9	PCF1518CT-ND	.34	.30	.23	PCF1518TR-ND	3,000	136.00/M	ECH-U01123JX5
		.015	0.9	PCF1519CT-ND	.34	.30	.23	PCF1519TR-ND	3,000	136.00/M	ECH-U01153JX5
		.018	0.9	PCF1520CT-ND	.34	.30	.23	PCF1520TR-ND	3,000	136.00/M	ECH-U01183JX5
		.022	1.1	PCF1521CT-ND	.34	.30	.23	PCF1521TR-ND	3,000	136.00/M	ECH-U01223JX5
		.027	1.1	PCF1522CT-ND	.38	.33	.25	PCF1522TR-ND	3,000	149.00/M	ECH-U01273JX5
	16	.0033	0.9	PCF1190CT-ND	.30	.26	.20	PCF1190TR-ND	3,000	120.00/M	ECH-U1C332JX5
		.0039	0.9	PCF1191CT-ND	.30	.26	.20	PCF1191TR-ND	3,000	120.00/M	ECH-U1C392JX5
		.0047	0.9	PCF1192CT-ND	.30	.26	.20	PCF1192TR-ND	3,000	120.00/M	ECH-U1C472JX5
		.0056	0.9	PCF1193CT-ND	.30	.26	.20	PCF1193TR-ND	3,000	120.00/M	ECH-U1C562JX5
		.0068	0.9	PCF1194CT-ND	.30	.26	.20	PCF1194TR-ND	3,000	120.00/M	ECH-U1C682JX5
		.0082	1.1	PCF1195CT-ND	.34	.30	.23	PCF1195TR-ND	3,000	134.00/M	ECH-U1C822JX5
		.01	1.1	PCF1196CT-ND	.34	.30	.23	PCF1196TR-ND	3,000	134.00/M	ECH-U1C103JX5
1206 (3216) Size	16	.012	0.9	PCF1197CT-ND	.37	.32	.25	PCF1197TR-ND	3,000	146.00/M	ECH-U1C123JX5
		.015	0.9	PCF1198CT-ND	.37	.32	.25	PCF1198TR-ND	3,000	146.00/M	ECH-U1C153JX5
		.018	0.9	PCF1199CT-ND	.37	.32	.25	PCF1199TR-ND	3,000	146.00/M	ECH-U1C183JX5
		.022	0.9	PCF1200CT-ND	.37	.32	.25	PCF1200TR-ND	3,000	146.00/M	ECH-U1C223JX5
		.027	1.1	PCF1201CT-ND	.41	.35	.27	PCF1201TR-ND	3,000	161.00/M	ECH-U1C273JX5
		.033	1.1	PCF1202CT-ND	.41	.35	.27	PCF1202TR-ND	3,000	161.00/M	ECH-U1C333JX5
		.039	1.5	PCF1203CT-ND	.44	.38	.29	PCF1203TR-ND	2,000	173.00/M	ECH-U1C393JX5
		.047	1.5	PCF1204CT-ND	.44	.38	.29	PCF1204TR-ND	2,000	173.00/M	ECH-U1C473JX5
1210 (3225) Size	16	.056	1.5	PCF1205CT-ND	.50	.44	.34	PCF1205TR-ND	2,000	200.00/M	ECH-U1C563JX5
		.068	1.5	PCF1206CT-ND	.50	.44	.34	PCF1206TR-ND	2,000	200.00/M	ECH-U1C683JX5
		.082	2.1	PCF1207CT-ND	.60	.52	.40	PCF1207TR-ND	2,000	239.00/M	ECH-U1C823JX5
		0.1	2.1	PCF1208CT-ND	.60	.52	.40	PCF1208TR-ND	2,000	239.00/M	ECH-U1C104JX5
0805 (2012) Size	50	.0001	0.9	PCF1316CT-ND	.29	.25	.20	PCF1316TR-ND	3,000	114.00/M	ECH-U1H101JX5
		.00012	0.9	PCF1317CT-ND	.29	.25	.20	PCF1317TR-ND	3,000	114.00/M	ECH-U1H121JX5
		.00015	0.9	PCF1318CT-ND	.29	.25	.20	PCF1318TR-ND	3,000	114.00/M	ECH-U1H151JX5
		.00018	0.9	PCF1319CT-ND	.29	.25	.20	PCF1319TR-ND	3,000	114.00/M	ECH-U1H181JX5
		.00022	0.9	PCF1320CT-ND	.29	.25	.20	PCF1320TR-ND	3,000	114.00/M	ECH-U1H221JX5
		.00027	0.9	PCF1321CT-ND	.29	.25	.20	PCF1321TR-ND	3,000	114.00/M	ECH-U1H271JX5
		.00033	0.9	PCF1322CT-ND	.29	.25	.20	PCF1322TR-ND	3,000	114.00/M	ECH-U1H331JX5
		.00039	0.9	PCF1323CT-ND	.29	.25	.20	PCF1323TR-ND	3,000	114.00/M	ECH-U1H391JX5
		.00047	0.9	PCF1324CT-ND	.29	.25	.20	PCF1324TR-ND	3,000	114.00/M	ECH-U1H471JX5
		.00056	0.9	PCF1325CT-ND	.29	.25	.20	PCF1325TR-ND	3,000	114.00/M	ECH-U1H561JX5
		.00068	0.9	PCF1326CT-ND	.29	.25	.20	PCF1326TR-ND	3,000	114.00/M	ECH-U1H681JX5
		.00082	0.9	PCF1327CT-ND	.29	.25	.20	PCF1327TR-ND	3,000	114.00/M	ECH-U1H821JX5
		.001	0.9	PCF1328CT-ND	.29	.25	.20	PCF1328TR-ND	3,000	114.00/M	ECH-U1H102JX5
		.0012	0.9	PCF1329CT-ND	.29	.25	.20	PCF1329TR-ND	3,000	114.00/M	ECH-U1H122JX5
		.0015	0.9	PCF1330CT-ND	.29	.25	.20	PCF1330TR-ND	3,000	114.00/M	ECH-U1H152JX5
		.0018	0.9	PCF1331CT-ND	.29	.25	.20	PCF1331TR-ND	3,000	114.00/M	ECH-U1H182JX5
		.0022	0.9	PCF1332CT-ND	.29	.25	.20	PCF1332TR-ND	3,000	114.00/M	ECH-U1H222JX5
		.0027	0.9	PCF1333CT-ND	.29	.25	.20	PCF1333TR-ND	3,000	114.00/M	ECH-U1H272JX5
1206 (3216) Size	50	.0033	0.9	PCF1334CT-ND	.37	.32	.25	PCF1334TR-ND	3,000	146.00/M	ECH-U1H332JX5
		.0039	0.9	PCF1335CT-ND	.37	.32	.25	PCF1335TR-ND	3,000	146.00/M	ECH-U1H392JX5
		.0047	0.9	PCF1336CT-ND	.37	.32	.25	PCF1336TR-ND	3,000	146.00/M	ECH-U1H472JX5
		.0056	0.9	PCF1337CT-ND	.37	.32	.25	PCF1337TR-ND	3,000	146.00/M	ECH-U1H562JX5
		.0068	0.9	PCF1338CT-ND	.37	.32	.25	PCF1338TR-ND	3,000	146.00/M	ECH-U1H682JX5
		.0082	1.1	PCF1339CT-ND	.41	.35	.27	PCF1339TR-ND	3,000	161.00/M	ECH-U1H822JX5
		.01	1.1	PCF1340CT-ND	.41	.35	.27	PCF1340TR-ND	3,000	161.00/M	ECH-U1H103JX5
1210 (3225) Size	50	.012	1.1	PCF1341CT-ND	.41	.35	.27	PCF1341TR-ND	2,000	161.00/M	ECH-U1H123JX5
		.015	1.1	PCF1342CT-ND	.43	.38	.29	PCF1342TR-ND	2,000	171.00/M	ECH-U1H153JX5
		.018	1.5	PCF1343CT-ND	.44	.38	.29	PCF1343TR-ND	2,000	173.00/M	ECH-U1H183JX5
		.022	1.5	PCF1344CT-ND	.44	.38	.29	PCF1344TR-ND	2,000	173.00/M	ECH-U1H223JX5
		.027	1.5	PCF1345CT-ND	.44	.38	.29	PCF1345TR-ND	2,000	173.00/M	ECH-U1H273JX5
		.033	2.1	PCF1346CT-ND	.50	.44	.34	PCF1346TR-ND	2,000	200.00/M	ECH-U1H333JX5
		.039	2.1	PCF1347CT-ND	.50	.44	.34	PCF1347TR-ND	2,000	200.00/M	ECH-U1H393JX5

Panasonic SMT Capacitors ECP-U (SF Submicron)

FEATURES: • Small in size • Low ESR • Excellent sound quality

APPLICATIONS: • Coupling • Decoupling • Noise Reduction

SPECIFICATIONS: ECP-U (A) Type: • Operating Temperature: -40°C ~ 85°C • Dissipation Factor: 1.5% maximum (20°C, 1kHz) • Withstand Voltage: Between terminals rated voltage (VDC) x 175%, 1 to 5s • Insulation Resistance: C≤0.33µF: 1000MΩ minimum (20°C, 16VDC, 60s), C>0.33µF: 300MΩ minimum (20°C, 16VDC, 60s) • Soldering Reflow Conditions: 240°C maximum and 30 seconds maximum at more than 210°C (temperature at cap surface)

Note: Solder paste/flux shall have less than 0.1wt% halogen content.

Storage: The unpacked products shall be kept in polyethylene bag together with well-dried silica-gel (from 5g to 10g) or be kept in storage at a temperature of 25°C, with a humidity less than 50% RH. This capacitor shall be used in only reflow method. Don't use in flow, dipping, or VPS soldering method.

A recommended solder paste thickness is between 0.10 (mm) and 0.15 (mm).

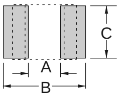

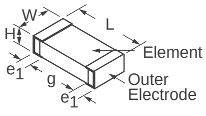

Type / Size Code	Dim. of Land (mm) A	B	C
J1-J2 (2012)	0.8	2.4	1.1
H1-H2-H3 (3216)	1.8	3.6	1.4
G2 (3225)	1.8	3.6	2.3

Item Code	WV DC	Cap. µF	Dimensions (mm) L	W	H	e1	g	Type	Digi-Key Part No.	Cut Tape Price Each 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
ECP-U (A) Type — 20% Tolerance																
0805	16	.10	2.0	1.25	1.0	0.45 ± 0.25	0.6min.	J2	PCF1126CT-ND	.33	.29	.22	PCF1126TR-ND	3,000	132.00/M	ECP-U1C104MA5
1206	16	.15	3.2	1.6	0.8	0.65 ± 0.3	1.0min.	H1	PCF1127CT-ND	.40	.35	.27	PCF1127TR-ND	3,000	158.00/M	ECP-U1C154MA5
	16	.22	3.2	1.6	0.8	0.65 ± 0.3	1.0min.	H1	PCF1128CT-ND	.47	.40	.31	PCF1128TR-ND	3,000	185.00/M	ECP-U1C224MA5
	16	.33	3.2	1.6	1.0	0.65 ± 0.3	1.0min.	H2	PCF1129CT-ND	.47	.40	.31	PCF1129TR-ND	3,000	185.00/M	ECP-U1C334MA5
	16	.47	3.2	1.6	1.4	0.65 ± 0.3	1.0min.	H3	PCF1130CT-ND	.53	.46	.35	PCF1130TR-ND	2,000	210.00/M	ECP-U1C474MA5
	16	.68	3.2	1.6	1.4	0.65 ± 0.3	1.0min.	H3	PCF1131CT-ND	.53	.46	.35	PCF1131TR-ND	2,000	210.00/M	ECP-U1C684MA5
1210	16	1.0	3.2	2.5	1.4	0.65 ± 0.3	1.0min.	G2	PCF1132CT-ND	.59	.51	.39	PCF1132TR-ND	2,000	234.00/M	ECP-U1C105MA5

Panasonic® M-Series Polyester and Foil Capacitors

Features:
High insulation resistance. Non-inductive construction: with tinned copper leads welded to the foils. High peak current capability. Solvent-resistant resin coated body.

Applications:
Blocking, by-pass and coupling of D.C. and signals to VHF range. Pulse, logic and timing circuits. Light-duty pulse forming networks. Filter and noise suppression circuits. General purpose usage.

Specifications:
Reference standard: JIS C5113 Characteristic M. Operating temperature range: -40°C ~ 85°C Construction: Polyester film, non-inductive, phenolic/epoxy resin coating, wax impregnation.

Electrical Specifications:
Capacitance Tolerance: ±10% (K). Insulation Resistance: Greater than 10,000 MV. Dissipation Factor: Less than 1.0% at 1 KHZ. Dielectric Withstanding Voltage: 250% of rated voltage for 5 seconds. Operating Temperature: -40°C ~ 80°C.

PANASONIC ECQ CROSS REFERENCE

Sprague: 225P, 418P; **Mepco:** 713D1, 711D1, 719D1; **TWR:** 601PE, 601CPE; **Pactron:** PE, FM; **Secor:** MFDN, MFDR; **Roederstein:** KT1805, KT1806, KT1807, KT1808; **Wima:** FKS; **CSF Thompson:** ED (Dip); **Rubycon:** F2X, F2S, F3U; **Nichicon:** TDY; **Nissiei:** AMZ, AMX, AMR, AMM.

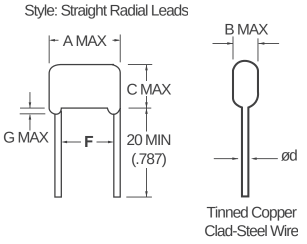

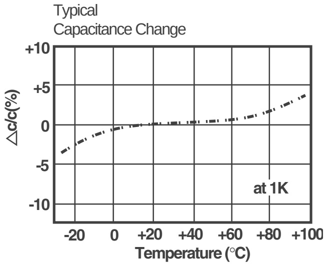

Cap. µF	Dimensions (mm) A	B	C	F±1.25	G	d	Digi-Key Part No.	Pricing 10	100	1,000	5,000	10,000	Panasonic Part No.
200 WV DC													
.001	9.0	5.0	9.0	5.5	2	0.6	P1029-ND*	1.64	13.70	82.00	76.00/M	71.00/M	ECQ-M2102KZ
.0012	9.0	5.0	9.0	5.5	2	0.6	P1030-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2122KZ
.0015	9.0	5.0	9.5	5.5	3	0.6	P1031-ND*	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2152KZ
.0018	9.0	5.5	9.5	5.5	3	0.6	P1032-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2182KZ
.0022	9.0	6.0	10.0	5.5	3	0.6	P1033-ND*	1.37	11.40	68.00	63.00/M	59.00/M	ECQ-M2222KZ
.0027	9.0	5.0	9.0	5.5	3	0.6	P1034-ND	1.45	12.08	72.00	67.00/M	63.00/M	ECQ-M2272KZ
.0033	9.0	5.0	9.0	5.5	3	0.6	P1035-ND*	1.51	12.60	75.00	70.00/M	65.00/M	ECQ-M2332KZ
.0039	12.0	5.5	9.5	7.5	3	0.6	P1036-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2392KZ
.0047	12.0	6.0	9.5	7.5	3	0.6	P1037-ND*	1.45	12.05	72.00	67.00/M	63.00/M	ECQ-M2472KZ
.0056	12.0	6.0	9.5	7.5	3	0.6	P1038-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2562KZ
.0068	12.0	6.0	10.5	7.5	3	0.6	P1039-ND*	1.38	11.48	69.00	64.00/M	60.00/M	ECQ-M2682KZ
.0082	14.0	5.5	10.0	9.5	3	0.6	P1040-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2822KZ
.01	14.0	6.0	10.0	9.5	3	0.6	P1041-ND*	1.57	13.08	78.00	73.00/M	68.00/M	ECQ-M2103KZ
.012	14.0	6.0	10.5	9.5	3	0.6	P1042-ND	1.58	13.13	78.00	73.00/M	68.00/M	ECQ-M2123KZ
.015	14.0	6.5	11.5	9.5	3	0.6	P1043-ND*	1.42	11.85	71.00	66.00/M	62.00/M	ECQ-M2153KZ
.018	17.0	5.5	10.0	12.5	3	0.6	P1044-ND	1.72	14.35	86.00	80.00/M	75.00/M	ECQ-M2183KZ
.022	17.0	5.5	11.0	12.5	3	0.6	P1045-ND*	1.75	14.60	87.00	81.00/M	76.00/M	ECQ-M2223KZ
.027	17.0	6.0	11.0	12.5	3	0.6	P1046-ND	1.59	13.28	79.00	74.00/M	69.00/M	ECQ-M2273KZ
.033	17.0	6.5	11.5	12.5	3	0.6	P1047-ND*	1.70	14.13	84.00	78.00/M	73.00/M	ECQ-M2333KZ
.039	17.0	6.0	13.5	12.5	3	0.6	P1048-ND	2.03	16.90	101.00	94.00/M	88.00/M	ECQ-M2393KZ
.047	17.0	6.5	14.0	12.5	3	0.6	P1049-ND*	1.80	15.03	90.00	83.00/M	78.00/M	ECQ-M2473KZ
.056	20.0	6.5	14.0	14.5	3	0.6	P1050-ND	1.92	16.00	96.00	89.00/M	83.00/M	ECQ-M2563KZ
.068	20.0	7.0	14.5	14.5	3	0.6	P1051-ND*	2.03	16.90	101.00	94.00/M	88.00/M	ECQ-M2683KZ
.082	20.0	7.5	15.0	15.0	3	0.6	P1052-ND	2.08	17.30	103.00	96.00/M	90.00/M	ECQ-M2823KZ
.1	20.0	8.0	17.0	15.0	3	0.6	P1053-ND*	2.88	24.00	143.00	133.00/M	125.00/M	ECQ-M2104KZ
.12	20.0	8.5	17.5	15.0	3	0.8	P1054-ND	3.04	25.35	151.00	141.00/M	132.00/M	ECQ-M2124KZ
.15	20.0	9.5	18.5	15.0	3	0.8	P1055-ND*	2.91	24.25	145.00	135.00/M	126.00/M	ECQ-M2154KZ
.18	23.0	13.0	22.0	18.5	3	0.8	P1056-ND	1.40	11.63	69.00	65.00/M	60.00/M	ECQ-M2184KZ
.22	23.0	14.0	23.0	18.5	3	0.8	P1057-ND*	4.32	36.00	215.00	200.00/M	187.00/M	ECQ-M2224KZ
400 WV DC													
.001	11.0	5.5	9.5	6.5	2	0.6	P1058-ND†	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4102KZ
.0012	11.0	6.0	10.0	6.5	2	0.6	P1059-ND†	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4122KZ
.0015	11.0	6.0	10.0	6.5	2	0.6	P1060-ND†	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4152KZ
.0018	11.0	6.0	10.0	6.5	2	0.6	P1061-ND†	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4182KZ
.0022	11.0	6.5	10.5	6.5	2	0.6	P1062-ND†	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4222KZ
.0027	12.0	6.0	10.0	7.5	2	0.6	P1063-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4272KZ
.0033	12.0	6.5	10.5	7.5	2	0.6	P1064-ND†	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4332KZ
.0039	12.0	6.5	10.5	7.5	2	0.6	P1065-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4392KZ
.0047	14.0	6.0	10.0	9.5	2	0.6	P1066-ND†	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4472KZ
.0056	14.0	6.0	10.0	9.5	2	0.6	P1067-ND	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4562KZ
.0068	14.0	6.5	10.5	9.5	3	0.6	P1068-ND†	1.37	11.43	68.00	63.00/M	59.00/M	ECQ-M4682KZ
.0082	14.0	6.5	12.0	9.5	3	0.6	P1069-ND	1.41	11.75	70.00	65.00/M	61.00/M	ECQ-M4822KZ
.01	14.0	7.0	12.5	9.5	3	0.6	P1070-ND†	1.41	11.75	70.00	65.00/M	61.00/M	ECQ-M4103KZ
.012	17.0	6.0	12.0	12.5	3	0.6	P1071-ND	1.49	12.38	74.00	69.00/M	64.00/M	ECQ-M4123KZ
.015	17.0	6.5	12.5	12.5	3	0.6	P1072-ND†	1.49	12.38	74.00	69.00/M	64.00/M	ECQ-M4153KZ
.018	17.0	7.0	13.0	12.5	3	0.6	P1073-ND	1.49	12.38	74.00	69.00/M	64.00/M	ECQ-M4183KZ
.022	17.0	7.5	13.5	12.5	3	0.6	P1074-ND†	1.64	13.65	81.00	76.00/M	71.00/M	ECQ-M4223KZ
.027	20.0	7.0	14.5	15.0	2	0.7	P1075-ND	1.79	14.90	89.00	83.00/M	77.00/M	ECQ-M4273KZ
.033	20.0	7.5	15.0	15.0	2	0.7	P1076-ND†	1.90	15.85	95.00	88.00/M	82.00/M	ECQ-M4333KZ
.039	20.0	8.5	16.0	15.0	3	0.7	P1077-ND	2.02	16.80	100.00	93.00/M	87.00/M	ECQ-M4393KZ
.047	20.0	9.0	16.5	15.0	3	0.7	P1078-ND†	2.17	18.08	108.00	100.00/M	94.00/M	ECQ-M4473KZ
.056	23.0	8.5	15.5	18.0	3	0.7	P1079-ND	2.35	19.58	117.00	109.00/M	102.00/M	ECQ-M4563KZ
.068	23.0	9.0	16.5	18.0	3	0.7	P1080-ND†	2.66	22.18	132.00	123.00/M	115.00/M	ECQ-M4683KZ
.082	24.0	9.5	17.0	18.0	3	0.8	P1081-ND	3.04	25.35	151.00	141.00/M	132.00/M	ECQ-M4823KZ
.1	24.0	10.0	19.0	18.0	3	0.8	P1082-ND†	3.31	27.55	164.00	153.00/M	143.00/M	ECQ-M4104KZ

M200-KIT-ND** ***Digi-Key® M-Series Capacitors Kit 200 Volt Assortment. 10 each of parts indicated. Notebook style storage case and bin storage guide included. **$29.95**
†M400-KIT-ND ***Digi-Key® M-Series Capacitors Kit*** 400 Volt Assortment. 10 each of parts indicated. Notebook style storage case and bin storage guide included. **$29.95**

Panasonic® Metallized Polyester Capacitors – ECQE(C) Type

Features:
- Box-type construction (case meets UL94V-0 flame classification, meets requirements of IEC950)
- Operating temperature range: -25°C ~ 85°C (105°C*)

(* Requires voltage, current and pulse current derating)

Application:
Interference suppressor for active circuits

Electrical Specifications:
- Rated Voltage: 450VDC
- Capacitance Tolerance: ±10%
- Withstand Voltage: Between Terminals: 1 minute at 150% of rated voltage (The capacitor shall be applied the voltage through a resistor of 2kµ or more when charged and discharged.) Between Terminals connected together and case: 1-5 seconds at 200% of rated voltage
- Insulation Resistance Between Terminals: 9,000 MΩ or more (when C≤0.33µF) 3,000 MΩ/µF or more (when C>0.33µF) at 100VDC±15V for 60±5 seconds, at 20°C
- Dissipation Factor: 1.0% or less (measured at a frequency of 1±0.2kHz, at 20°C)

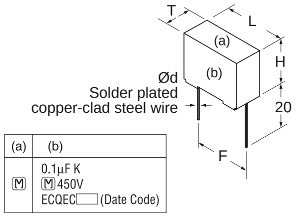

(a)	(b)
Ⓜ	0.1µF K Ⓜ 450V ECQEC☐ (Date Code)

WV DC	Cap. µF	Toler-ance	Dimensions (mm) L	T	H	F	d	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
450	.10	10%	18.5	5.5	14.5	15.0	0.6	P10755-ND	.62	.53	.44	.27	ECQ-E2W104KC
	.15	10%	18.5	6.0	16.5	15.0	0.6	P10756-ND	.75	.65	.54	.32	ECQ-E2W154KC
	.22	10%	18.5	7.0	18.0	15.0	0.6	P10757-ND	.89	.77	.64	.38	ECQ-E2W224KC
	.33	10%	18.0	9.0	17.5	15.0	0.8	P10758-ND	1.10	.94	.79	.47	ECQ-E2W334KC
	.47	10%	18.0	9.5	17.5	15.0	0.8	P10759-ND	1.30	1.12	.93	.56	ECQ-E2W474KC
	.68	10%	25.5	10.5	20.0	22.5	0.8	P10760-ND	1.77	1.53	1.27	.76	ECQ-E2W684KC
	1.0	10%	25.5	12.5	22.0	22.5	0.8	P10761-ND	2.32	2.00	1.66	1.00	ECQ-E2W105KC
	1.5	10%	25.5	15.5	24.5	22.5	0.8	P10762-ND	3.07	2.64	2.20	1.31	ECQ-E2W155KC
	2.2	10%	31.0	14.0	24.5	27.5	0.8	P10763-ND	4.03	3.45	2.88	1.72	ECQ-E2W225KC

Panasonic® P-Series Polypropylene Capacitors

Features:
- Wide capacitance range • Close capacitance tolerance • High insulation resistance • Low dissipation factor • Non-inductive const. • Epoxy resin coating

Applications:
- Blocking, by-pass and coupling of DC and signal to UHF range • Pulse, logic and timing circuit • Light duty pulse forming network • Filter and noise suppression circuit

Electrical Specifications:
- Reference Standard: EIAJ RC-3670A • Temperature Range: -40°C ~ 85°C • Dissipation Factor: .1% maximum at 1KHz and 25°C • Withstand Voltage: 1-5 seconds at 250% of rated voltage • Insulation Resistance: 45,000MΩ minimum, for values less than .33µF. 15,000 MΩ/µF minimum, for .33µF and greater. (Measured after a 2-minute charge at rated voltage and 25°C.)

PANASONIC ECQ-P CROSS REF.: Sprague: 715P **Westlake:** 173/174 **Mepco:** 719E1/719H1 **Secor:** PFDS/PFDR **Roderstein:** KP1835 **Wima:** FKP **CSF Thompson:** PL/PS **Rubycon:** PP **Nisseip:** APS/APA.

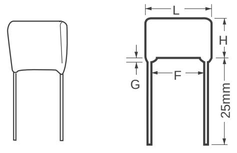

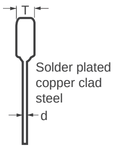

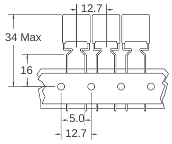

WV DC	Cap. µF	Toler-ance	Dimensions (mm) L	T	H	F	d	Digi-Key Part No.	Tape & Box Pricing 500	1,000	5,000	Panasonic Part No.
50	.0001	5%	8.5	4.5	7.5	5.0	0.5	P3101TB-ND	—	138.00	133.00/M	ECQ-P1H101JZ3
	.00012	5%	8.5	4.5	7.5	5.0	0.5	P3121TB-ND	—	138.00	133.00/M	ECQ-P1H121JZ3
	.00015	5%	8.5	4.5	7.5	5.0	0.5	P3151TB-ND	—	138.00	133.00/M	ECQ-P1H151JZ3
	.00018	5%	8.5	4.5	7.5	5.0	0.5	P3181TB-ND	—	138.00	133.00/M	ECQ-P1H181JZ3
	.00022	5%	8.5	4.5	7.5	5.0	0.5	P3221TB-ND	—	138.00	133.00/M	ECQ-P1H221JZ3
	.00027	5%	8.5	4.5	7.5	5.0	0.5	P3271TB-ND	—	138.00	133.00/M	ECQ-P1H271JZ3
	.00033	5%	8.5	4.5	7.5	5.0	0.5	P3331TB-ND	—	138.00	133.00/M	ECQ-P1H331JZ3
	.00039	5%	8.5	4.5	7.5	5.0	0.5	P3391TB-ND	—	138.00	133.00/M	ECQ-P1H391JZ3
	.00047	5%	8.5	4.5	7.5	5.0	0.5	P3471TB-ND	—	138.00	133.00/M	ECQ-P1H471JZ3
	.00056	5%	8.5	4.5	7.5	5.0	0.5	P3561TB-ND	—	138.00	133.00/M	ECQ-P1H561JZ3
	.00068	5%	8.5	4.5	7.5	5.0	0.5	P3681TB-ND	—	138.00	133.00/M	ECQ-P1H681JZ3
	.00082	5%	8.5	4.5	7.5	5.0	0.5	P3821TB-ND	—	138.00	133.00/M	ECQ-P1H821JZ3
	.001	2%	8.5	4.5	7.5	5.0	0.5	P3102TB-ND	—	193.00	187.00/M	ECQ-P1H102GZ3
	.0012	2%	8.5	4.5	7.5	5.0	0.5	P3122TB-ND	—	193.00	187.00/M	ECQ-P1H122GZ3
	.0015	2%	8.5	4.5	7.5	5.0	0.5	P3152TB-ND	—	193.00	187.00/M	ECQ-P1H152GZ3
	.0018	2%	8.5	4.5	7.5	5.0	0.5	P3182TB-ND	—	193.00	187.00/M	ECQ-P1H182GZ3
	.0022	2%	8.5	4.5	7.5	5.0	0.5	P3222TB-ND	—	193.00	187.00/M	ECQ-P1H222GZ3
	.0027	2%	8.5	4.5	7.5	5.0	0.5	P3272TB-ND	—	193.00	187.00/M	ECQ-P1H272GZ3
	.0033	2%	8.5	4.5	7.5	5.0	0.5	P3332TB-ND	—	193.00	187.00/M	ECQ-P1H332GZ3
	.0039	2%	8.5	4.5	7.5	5.0	0.5	P3392TB-ND	—	193.00	187.00/M	ECQ-P1H392GZ3
	.0047	2%	8.5	4.5	7.5	5.0	0.5	P3472TB-ND	—	193.00	187.00/M	ECQ-P1H472GZ3
	.0056	2%	8.5	4.5	8.0	5.0	0.5	P3562TB-ND	—	206.00	199.00/M	ECQ-P1H562GZ3
	.0068	2%	8.5	5.0	8.0	5.0	0.5	P3682TB-ND	—	206.00	199.00/M	ECQ-P1H682GZ3
	.0082	2%	12.0	5.5	9.0	5.0	0.6	P3822TB-ND	—	221.00	214.00/M	ECQ-P1H822GZ3
	.01	2%	12.0	5.0	8.5	5.0	0.6	P3103TB-ND	—	221.00	214.00/M	ECQ-P1H103GZ3
	.012	2%	12.0	5.5	9.0	5.0	0.6	P3123TB-ND	—	221.00	214.00/M	ECQ-P1H123GZ3
	.015	2%	12.0	5.0	9.0	5.0	0.6	P3153TB-ND	—	221.00	214.00/M	ECQ-P1H153GZ3
	.018	2%	12.0	5.5	9.5	5.0	0.6	P3183TB-ND	—	238.00	230.00/M	ECQ-P1H183GZ3
	.022	2%	12.0	5.5	10.5	5.0	0.6	P3223TB-ND	—	238.00	230.00/M	ECQ-P1H223GZ3
	.027	2%	12.0	6.0	11.0	5.0	0.6	P3273TB-ND	136.50	—	264.00/M	ECQ-P1H273GZ3
	.033	2%	12.0	6.5	00.5	5.0	0.6	P3333TB-ND	136.50	—	264.00/M	ECQ-P1H333GZ3

WV DC	Cap. µF	Toler-ance	Dimensions (mm) L	T	H	F	G	d	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
50	.0001	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3101-ND*	.23	1.99	16.58	99.00	ECQ-P1H101JZ
	.00012	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3121-ND	.23	1.99	16.58	99.00	ECQ-P1H121JZ
	.00015	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3151-ND	.23	1.99	16.58	99.00	ECQ-P1H151JZ
	.00018	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3181-ND	.23	1.99	16.58	99.00	ECQ-P1H181JZ
	.00022	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3221-ND*	.23	1.99	16.58	99.00	ECQ-P1H221JZ
	.00027	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3271-ND	.23	1.99	16.58	99.00	ECQ-P1H271JZ
	.00033	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3331-ND*	.23	1.99	16.58	99.00	ECQ-P1H331JZ
	.00039	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3391-ND	.23	1.99	16.58	99.00	ECQ-P1H391JZ
	.00047	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3471-ND*	.23	1.99	16.58	99.00	ECQ-P1H471JZ
	.00056	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3561-ND	.23	1.99	16.58	99.00	ECQ-P1H561JZ
	.00068	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3681-ND	.23	1.99	16.58	99.00	ECQ-P1H681JZ
	.00082	5%	8.5	4.5	7.5	5.0	1.0	0.5	P3821-ND	.23	1.99	16.58	99.00	ECQ-P1H821JZ
	.001	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3102-ND*	.46	3.90	32.50	194.00	ECQ-P1H102GZ
	.0012	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3122-ND	.46	3.90	32.50	194.00	ECQ-P1H122GZ
	.0015	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3152-ND	.46	3.90	32.50	194.00	ECQ-P1H152GZ
	.0018	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3182-ND	.46	3.90	32.50	194.00	ECQ-P1H182GZ
	.0022	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3222-ND*	.46	3.90	32.50	194.00	ECQ-P1H222GZ
	.0027	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3272-ND	.46	3.90	32.50	194.00	ECQ-P1H272GZ
	.0033	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3332-ND*	.46	3.90	32.50	194.00	ECQ-P1H332GZ
	.0039	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3392-ND	.46	3.90	32.50	194.00	ECQ-P1H392GZ
	.0047	2%	8.5	4.5	7.5	5.0	1.0	0.5	P3472-ND*	.46	3.90	32.50	194.00	ECQ-P1H472GZ
	.0056	2%	8.5	4.5	8.0	5.0	1.0	0.5	P3562-ND	.49	4.20	35.00	209.00	ECQ-P1H562GZ
	.0068	2%	8.5	5.0	8.0	5.0	1.0	0.5	P3682-ND	.49	4.20	35.00	209.00	ECQ-P1H682GZ
	.0082	2%	12.0	5.5	9.0	7.5	1.0	0.6	P3822-ND	.49	4.20	35.00	209.00	ECQ-P1H822GZ
	.01	2%	12.0	5.0	8.5	7.5	1.0	0.6	P3103-ND*	.53	4.50	37.50	224.00	ECQ-P1H103GZ
	.012	2%	12.0	5.5	9.0	7.5	1.0	0.6	P3123-ND	.53	4.50	37.50	224.00	ECQ-P1H123GZ
	.015	2%	12.0	5.0	9.0	7.5	1.0	0.6	P3153-ND	.53	4.50	37.50	224.00	ECQ-P1H153GZ
	.018	2%	12.0	5.5	9.5	7.5	1.0	0.6	P3183-ND	.57	4.86	40.50	242.00	ECQ-P1H183GZ
	.022	2%	12.0	5.5	10.5	7.5	1.0	0.6	P3223-ND*	.57	4.86	40.50	242.00	ECQ-P1H223GZ
	.027	2%	12.0	6.0	11.0	7.5	1.0	0.6	P3273-ND	.59	5.07	42.25	252.00	ECQ-P1H273GZ
	.033	2%	12.0	6.5	11.5	7.5	1.0	0.6	P3333-ND*	.59	5.07	42.25	252.00	ECQ-P1H333GZ
	.039	2%	14.5	5.5	12.0	10.0	1.0	0.6	P3393-ND	.64	5.52	46.00	275.00	ECQ-P1H393GZ
	.047	2%	14.5	6.0	12.5	10.0	1.0	0.6	P3473-ND*	.64	5.52	46.00	275.00	ECQ-P1H473GZ
	.056	2%	14.5	6.5	13.5	10.0	1.0	0.6	P3563-ND	.72	6.15	51.25	306.00	ECQ-P1H563GZ
	.068	2%	14.5	7.0	14.0	10.0	1.0	0.6	P3683-ND	.86	7.41	61.75	369.00	ECQ-P1H683GZ
	.082	2%	17.0	7.0	14.0	12.5	1.0	0.6	P3823-ND	.86	7.41	61.75	369.00	ECQ-P1H823GZ
	.1	2%	17.0	7.5	14.5	12.5	1.0	0.6	P3104-ND*	.86	7.41	61.75	369.00	ECQ-P1H104GZ
	.12	2%	17.0	8.5	15.5	12.5	1.0	0.6	P3124-ND	1.06	9.06	75.50	451.00	ECQ-P1H124GZ
	.15	2%	20.0	8.0	15.5	15.0	1.0	0.6	P3154-ND	1.06	9.06	75.50	451.00	ECQ-P1H154GZ
	.18	2%	20.0	9.0	16.0	15.0	1.0	0.6	P3184-ND	1.28	11.01	91.75	548.00	ECQ-P1H184GZ
	.22	2%	20.0	9.5	17.0	15.0	1.0	0.6	P3224-ND*	1.28	11.01	91.75	548.00	ECQ-P1H224GZ
	.27	2%	20.0	10.5	18.0	15.0	1.0	0.6	P3274-ND	1.58	13.56	113.00	675.00	ECQ-P1H274GZ
	.33	2%	22.5	10.0	19.5	17.5	1.0	0.8	P3334-ND*	1.58	13.56	113.00	675.00	ECQ-P1H334GZ
	.39	2%	22.5	11.0	20.0	17.5	1.0	0.8	P3394-ND	1.89	16.20	135.00	806.00	ECQ-P1H394GZ
	.47	2%	22.5	12.0	21.0	17.5	1.0	0.8	P3474-ND	1.89	16.20	135.00	806.00	ECQ-P1H474GZ

P3100-KIT-ND** ***Digi-Key® P-Series Capacitors Kit 10 each of parts indicated. Notebook style storage and bin, storage guide included. **$69.95**

ECQ-P (Z) Series Polypropylene Film Capacitors

Non-inductive construction using Polypropylene film with epoxy resin coating.

Features:
- Excellent temperature and frequency characteristics
- Excellent long term stability

Applications:
- Dolby circuits
- Oscillation circuits

Electrical Specifications:
- Temperature Range: -40°C ~ 85°C
- Rated Voltage: 50VDC, (Voltage derating is required above 70°. See data sheet for details.)
- Dissipation Factor: 0.1% maximum at 1kHz and 20° • Withstand Voltage: Between terminals: Rated voltage: (VDC) x 250% 1 to 5s • Insulation Resistance: C≤ 0.33µF: 45000MΩ minimum C≤ 0.33µF: 15000MΩ µF minimum (20°C Rated Voltage - 60s)

.0075 - .47 µF

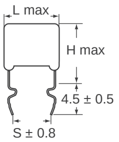

.0001 - .0068 µF

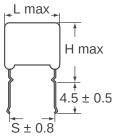

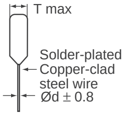

WV DC	Cap. µF	Toler-ance	Dimensions (mm) L	T	H	S	d	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
50	0.0001	5%	8.5	4.5	12.5	5.0	0.50	P3889-ND	.23	1.94	16.20	97.20	ECQ-P1H101JZW
	0.00012	5%	8.5	4.5	12.5	5.0	0.50	P3890-ND	.23	1.94	16.20	97.20	ECQ-P1H121JZW
	0.00015	5%	8.5	4.5	12.5	5.0	0.50	P3891-ND	.23	1.94	16.20	97.20	ECQ-P1H151JZW
	0.00018	5%	8.5	4.5	12.5	5.0	0.50	P3892-ND	.23	1.94	16.20	97.20	ECQ-P1H181JZW
	0.00022	5%	8.5	4.5	12.5	5.0	0.50	P3893-ND	.23	1.94	16.20	97.20	ECQ-P1H221JZW
	0.00027	5%	8.5	4.5	12.5	5.0	0.50	P3894-ND	.23	1.94	16.20	97.20	ECQ-P1H271JZW
	0.00033	5%	8.5	4.5	12.5	5.0	0.50	P3895-ND	.23	1.94	16.20	97.20	ECQ-P1H331JZW
	0.00039	5%	8.5	4.5	12.5	5.0	0.50	P3896-ND	.23	1.94	16.20	97.20	ECQ-P1H391JZW
	0.00047	5%	8.5	4.5	12.5	5.0	0.50	P3897-ND	.23	1.94	16.20	97.20	ECQ-P1H471JZW
	0.00056	5%	8.5	4.5	12.5	5.0	0.50	P3898-ND	.23	1.94	16.20	97.20	ECQ-P1H561JZW
	0.00068	5%	8.5	4.5	12.5	5.0	0.50	P3899-ND	.23	1.94	16.20	97.20	ECQ-P1H681JZW
	0.00082	5%	8.5	4.5	12.5	5.0	0.50	P3900-ND	.23	1.94	16.20	97.20	ECQ-P1H821JZW
	0.0011	2%	8.5	4.5	12.5	5.0	0.50	P3901-ND	.35	3.04	25.30	151.80	ECQ-P1H102GZW
	0.0012	2%	8.5	4.5	12.5	5.0	0.50	P3902-ND	.35	3.04	25.30	151.80	ECQ-P1H122GZW
	0.0015	2%	8.5	4.5	12.5	5.0	0.50	P3903-ND	.35	3.04	25.30	151.80	ECQ-P1H152GZW
	0.0018	2%	8.5	4.5	12.5	5.0	0.50	P3904-ND	.35	3.04	25.30	151.80	ECQ-P1H182GZW
	0.0022	2%	8.5	4.5	12.5	5.0	0.50	P3905-ND	.35	3.04	25.30	151.80	ECQ-P1H222GZW
	0.0027	2%	8.5	4.5	12.5	5.0	0.50	P3906-ND	.35	3.04	25.30	151.80	ECQ-P1H272GZW
	0.0033	2%	8.5	4.5	12.5	5.0	0.50	P3907-ND	.35	3.04	25.30	151.80	ECQ-P1H332GZW
	0.0039	2%	8.5	4.5	12.5	5.0	0.50	P3908-ND	.35	3.04	25.30	151.80	ECQ-P1H392GZW
	0.0047	2%	8.5	4.5	12.5	5.0	0.50	P3909-ND	.35	3.04	25.30	151.80	ECQ-P1H472GZW
	0.0056	2%	8.5	4.5	13.0	5.0	0.50	P3910-ND	.38	3.28	27.30	163.80	ECQ-P1H562GZW
	0.0068	2%	8.5	5.0	13.0	5.0	0.50	P3911-ND	.38	3.28	27.30	163.80	ECQ-P1H682GZW
	0.0082	2%	12.0	5.5	14.0	5.0	0.60	P3912-ND	.38	3.28	27.30	163.80	ECQ-P1H822GZW
	0.01	2%	12.0	5.0	13.5	5.0	0.60	P3913-ND	.41	3.55	29.60	177.60	ECQ-P1H103GZW
	0.012	2%	12.0	5.0	14.0	5.0	0.60	P3914-ND	.41	3.55	29.60	177.60	ECQ-P1H123GZW
	0.015	2%	12.0	5.0	14.0	5.0	0.60	P3915-ND	.41	3.55	29.60	177.60	ECQ-P1H153GZW
	0.018	2%	12.0	5.5	14.5	5.0	0.60	P3916-ND	.45	3.86	32.20	193.20	ECQ-P1H183GZW
	0.022	2%	12.0	5.5	15.5	5.0	0.60	P3917-ND	.45	3.86	32.20	193.20	ECQ-P1H223GZW
	0.027	2%	12.0	6.0	16.0	5.0	0.60	P3918-ND	.45	3.86	32.20	193.20	ECQ-P1H273GZW
	0.033	2%	12.0	6.5	16.5	5.0	0.60	P3919-ND	.47	4.04	33.63	201.75	ECQ-P1H333GZW
	0.039	2%	14.5	5.5	17.0	5.0	0.60	P3920-ND	.52	4.42	36.80	220.80	ECQ-P1H393GZW

WV DC	Cap. µF	Toler-ance	Dimensions (mm) L	T	H	S	d	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic Part No.
50	0.047	2%	14.5	6.0	17.5	5.0	0.60	P3921-ND	.60	5.14	42.85	257.10	ECQ-P1H473GZW
	0.056	2%	14.5	6.5	18.5	5.0	0.60	P3922-ND	.60	5.14	42.85	257.10	ECQ-P1H563GZW
	0.068	2%	14.5	7.0	19.0	5.0	0.60	P3923-ND	.60	5.14	42.85	257.10	ECQ-P1H683GZW
	0.082	2%	17.0	7.0	19.0	7.5	0.60	P3924-ND	.60	5.14	42.85	257.10	ECQ-P1H823GZW
	0.1	2%	17.0	7.5	19.5	7.5	0.60	P3925-ND	.82	7.06	58.83	352.95	ECQ-P1H104GZW
	0.12	2%	17.0	8.5	20.5	7.5	0.60	P3926-ND	1.03	8.81	73.45	440.70	ECQ-P1H124GZW
	0.15	2%	20.0	8.0	20.5	10.0	0.60	P3927-ND	1.03	8.81	73.45	440.70	ECQ-P1H154GZW
	0.18	2%	20.0	9.0	21.0	10.0	0.60	P3928-ND	1.10	9.41	78.45	470.70	ECQ-P1H184GZW
	0.22	2%	20.0	9.5	22.0	10.0	0.60	P3929-ND	1.32	11.31	94.28	565.65	ECQ-P1H224GZW
	0.27	2%	20.0	10.5	23.0	10.0	0.60	P3930-ND	1.32	11.31	94.28	565.65	ECQ-P1H274GZW
	0.33	2%	22.5	10.0	24.5	12.5	0.80	P3931-ND	1.33	11.39	94.88	569.25	ECQ-P1H334GZW
	0.39	2%	22.5	11.0	25.0	12.5	0.80	P3932-ND	1.59	13.66	113.85	683.10	ECQ-P1H394GZW
	0.47	2%	22.5	12.0	26.0	12.5	0.80	P3933-ND	1.59	13.66	113.85	683.10	ECQ-P1H474GZW
	0.001	1%	8.5	4.5	12.5	5.0	0.50	P3824-ND	.63	5.42	45.15	270.90	ECQ-P1H102FZW
	0.0011	1%	8.5	4.5	12.5	5.0	0.50	P3825-ND	.63	5.42	45.15	270.90	ECQ-P1H112FZW
	0.0012	1%	8.5	4.5	12.5	5.0	0.50	P3826-ND	.63	5.42	45.15	270.90	ECQ-P1H122FZW
	0.0013	1%	8.5	4.5	12.5	5.0	0.50	P3827-ND	.63	5.42	45.15	270.90	ECQ-P1H132FZW
	0.0015	1%	8.5	4.5	12.5	5.0	0.50	P3828-ND	.63	5.42	45.15	270.90	ECQ-P1H152FZW
	0.0016	1%	8.5	4.5	12.5	5.0	0.50	P3829-ND	.63	5.42	45.15	270.90	ECQ-P1H162FZW
	0.0018	1%	8.5	4.5	12.5	5.0	0.50	P3830-ND	.63	5.42	45.15	270.90	ECQ-P1H182FZW
	0.002	1%	8.5	4.5	12.5	5.0	0.50	P3831-ND	.63	5.42	45.15	270.90	ECQ-P1H202FZW
	0.0022	1%	8.5	4.5	12.5	5.0	0.50	P3832-ND	.63	5.42	45.15	270.90	ECQ-P1H222FZW
	0.0024	1%	8.5	4.5	12.5	5.0	0.50	P3833-ND	.63	5.42	45.18	271.05	ECQ-P1H242FZW
	0.0027	1%	8.5	4.5	12.5	5.0	0.50	P3834-ND	.63	5.42	45.18	271.05	ECQ-P1H272FZW
	0.003	1%	8.5	4.5	12.5	5.0	0.50	P3835-ND	.63	5.42	45.18	271.05	ECQ-P1H302FZW
	0.0033	1%	8.5	4.5	12.5	5.0	0.50	P3836-ND	.63	5.42	45.18	271.05	ECQ-P1H332FZW
	0.0036	1%	8.5	4.5	12.5	5.0	0.50	P3837-ND	.63	5.42	45.18	271.05	ECQ-P1H362FZW
	0.0039	1%	8.5	4.5	12.5	5.0	0.50	P3838-ND	.63	5.42	45.18	271.05	ECQ-P1H392FZW
	0.0043	1%	8.5	4.5	12.5	5.0	0.50	P3839-ND	.63	5.42	45.18	271.05	ECQ-P1H432FZW
	0.0047	1%	8.5	4.5	12.5	5.0	0.50	P3840-ND	.63	5.42	45.18	271.05	ECQ-P1H472FZW

(Continued)

Panasonic ECQ-P (Z) Polypropylene Film Capacitors *(Cont.)*

WV DC	Cap. µF	Toler- ance	Dimensions (mm)					Digi-Key Part No.	Pricing				Panasonic Part No.
			L	T	H	S	d		1	10	100	1,000	
50	0.0051	1%	8.5	4.5	13.0	5.0	0.50	P3841-ND	.63	5.42	45.18	271.05	ECQ-P1H512FZW
	0.0056	1%	8.5	4.5	13.0	5.0	0.50	P3842-ND	.63	5.42	45.18	271.05	ECQ-P1H562FZW
	0.0062	1%	8.5	5.0	13.0	5.0	0.50	P3843-ND	.63	5.42	45.18	271.05	ECQ-P1H622FZW
	0.0068	1%	8.5	5.0	13.0	5.0	0.50	P3844-ND	.63	5.42	45.18	271.05	ECQ-P1H682FZW
	0.0075	1%	12.0	5.0	14.0	5.0	0.60	P3845-ND	.63	5.42	45.18	271.05	ECQ-P1H752FZW
	0.0082	1%	12.0	5.5	14.0	5.0	0.60	P3846-ND	.63	5.42	45.18	271.05	ECQ-P1H822FZW
	0.0091	1%	12.0	5.0	13.5	5.0	0.60	P3847-ND	.63	5.42	45.18	271.05	ECQ-P1H912FZW
	0.01	1%	12.0	5.0	13.5	5.0	0.60	P3848-ND	.63	5.42	45.18	271.05	ECQ-P1H103FZW
	0.011	1%	12.0	5.0	14.0	5.0	0.60	P3849-ND	.65	5.56	46.33	277.95	ECQ-P1H113FZW
	0.012	1%	12.0	5.5	14.0	5.0	0.60	P3850-ND	.65	5.56	46.33	277.95	ECQ-P1H123FZW
	0.013	1%	12.0	5.0	14.0	5.0	0.60	P3851-ND	.65	5.56	46.33	277.95	ECQ-P1H133FZW
	0.015	1%	12.0	5.0	14.0	5.0	0.60	P3852-ND	.65	5.56	46.33	277.95	ECQ-P1H153FZW
	0.016	1%	12.0	5.5	14.0	5.0	0.60	P3853-ND	.65	5.56	46.33	277.95	ECQ-P1H163FZW
	0.018	1%	12.0	5.5	14.5	5.0	0.60	P3854-ND	.65	5.56	46.33	277.95	ECQ-P1H183FZW
	0.02	1%	12.0	5.5	14.5	5.0	0.60	P3855-ND	.74	6.35	52.90	317.40	ECQ-P1H203FZW
	0.022	1%	12.0	5.5	15.5	5.0	0.60	P3856-ND	.61	5.26	43.80	262.80	ECQ-P1H223FZW
	0.024	1%	12.0	6.0	15.5	5.0	0.60	P3857-ND	.74	6.35	52.90	317.40	ECQ-P1H243FZW
	0.027	1%	12.0	6.0	16.0	5.0	0.60	P3858-ND	.74	6.35	52.90	317.40	ECQ-P1H273FZW
	0.03	1%	12.0	6.5	16.0	5.0	0.60	P3859-ND	.84	7.19	59.95	359.70	ECQ-P1H303FZW
	0.033	1%	12.0	6.5	16.5	5.0	0.60	P3860-ND	.84	7.19	59.95	359.70	ECQ-P1H333FZW
	0.036	1%	14.5	5.5	17.0	5.0	0.60	P3861-ND	.84	7.19	59.95	359.70	ECQ-P1H363FZW
	0.039	1%	14.5	5.5	17.0	5.0	0.60	P3862-ND	.84	7.19	59.95	359.70	ECQ-P1H393FZW
	0.043	1%	14.5	6.0	17.0	5.0	0.60	P3863-ND	.84	7.19	59.95	359.70	ECQ-P1H433FZW
	0.047	1%	14.5	6.0	17.5	5.0	0.60	P3864-ND	.84	7.19	59.95	359.70	ECQ-P1H473FZW

WV DC	Cap. µF	Toler- ance	Dimensions (mm)					Digi-Key Part No.	Pricing				Panasonic Part No.
			L	T	H	S	d		1	10	100	1,000	
50	0.051	1%	14.5	6.5	18.5	5.0	0.60	P3865-ND	1.11	9.48	79.00	474.00	ECQ-P1H513FZW
	0.056	1%	14.5	6.5	18.5	5.0	0.60	P3866-ND	1.11	9.48	79.00	474.00	ECQ-P1H563FZW
	0.062	1%	14.5	7.0	19.0	5.0	0.60	P3867-ND	1.11	9.48	79.00	474.00	ECQ-P1H623FZW
	0.068	1%	14.5	7.0	19.0	5.0	0.60	P3868-ND	1.11	9.48	79.00	474.00	ECQ-P1H683FZW
	0.075	1%	17.0	6.5	18.5	7.5	0.60	P3869-ND	1.11	9.48	79.00	474.00	ECQ-P1H753FZW
	0.082	1%	17.0	7.0	19.0	7.5	0.60	P3870-ND	1.11	9.48	79.00	474.00	ECQ-P1H823FZW
	0.091	1%	17.0	7.0	19.0	7.5	0.60	P3871-ND	1.11	9.48	79.03	474.15	ECQ-P1H913FZW
	0.1	1%	17.0	7.5	19.5	7.5	0.60	P3872-ND	1.15	9.87	82.23	493.35	ECQ-P1H104FZW
	0.11	1%	17.0	8.0	20.5	7.5	0.60	P3873-ND	1.43	12.23	101.88	611.25	ECQ-P1H114FZW
	0.12	1%	17.0	8.5	20.5	7.5	0.60	P3874-ND	1.43	12.23	101.88	611.25	ECQ-P1H124FZW
	0.13	1%	17.0	8.5	21.0	7.5	0.60	P3875-ND	1.43	12.23	101.88	611.25	ECQ-P1H134FZW
	0.15	1%	20.0	8.0	20.5	10.0	0.60	P3876-ND	1.43	12.23	101.88	611.25	ECQ-P1H154FZW
	0.16	1%	20.0	8.5	20.5	10.0	0.60	P3877-ND	1.43	12.23	101.88	611.25	ECQ-P1H164FZW
	0.18	1%	20.0	9.0	21.0	10.0	0.60	P3878-ND	1.43	12.23	101.88	611.25	ECQ-P1H184FZW
	0.20	1%	20.0	9.5	21.5	10.0	0.60	P3879-ND	1.43	12.23	101.88	611.25	ECQ-P1H204FZW
	0.22	1%	20.0	9.5	22.0	10.0	0.60	P3880-ND	1.43	12.23	101.88	611.25	ECQ-P1H224FZW
	0.24	1%	20.0	10.0	22.5	10.0	0.60	P3881-ND	1.89	16.19	134.90	809.40	ECQ-P1H244FZW
	0.27	1%	20.0	10.5	23.0	10.0	0.60	P3882-ND	1.98	17.00	141.70	850.20	ECQ-P1H274FZW
	0.30	1%	22.5	9.5	24.0	12.5	0.80	P3883-ND	1.98	17.00	141.70	850.20	ECQ-P1H304FZW
	0.33	1%	22.5	10.0	24.5	12.5	0.80	P3884-ND	2.21	18.97	158.05	948.30	ECQ-P1H334FZW
	0.36	1%	22.5	10.5	25.0	12.5	0.80	P3885-ND	2.21	18.97	158.05	948.30	ECQ-P1H364FZW
	0.39	1%	22.5	11.0	25.0	12.5	0.80	P3886-ND	2.44	20.93	174.40	1046.40	ECQ-P1H394FZW
	0.43	1%	22.5	11.5	25.5	12.5	0.80	P3887-ND	2.61	22.40	186.68	1120.05	ECQ-P1H434FZW
	0.47	1%	22.5	12.0	26.0	12.5	0.80	P3888-ND	2.76	23.69	197.40	1184.40	ECQ-P1H474FZW

ECQP(U) Series Polypropylene Film Capacitors

Non-inductive construction using Polypropylene film with flame retardant epoxy resin coating.

Features: • Low loss and excellent frequency characteristics • Excellent temperature characteristics • High insulation resistance

Applications: • High frequency and high current circuits • General purpose circuit

Electrical Specifications: • Reference Standard: EIAJ RC-3670B Characteristics P • Temperature Range: -40°C ~ 85°C Derating of rated voltage at more than 85°C (rated voltage x 50%) • Dissipation Factor: 0.1% maximum at 1kHz and 20°C • Withstand Voltage: 1-5 seconds at 250% of rated voltage between terminals • Insulation Resistance: 45,000 MΩ minimum, for values equal to or less than .33µF. 15,000 MΩ/µF minimum, for greater than .33µF (20°C, 100VDC, 60s)

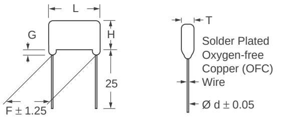

WV DC	Cap. µF	Toler- ance	Dimensions (mm)						Digi-Key Part No.	Pricing				Panasonic Part No.
			L	T	H	F	G	d		1	10	100	1,000	
400	.0082	5%	19.5	6.0	16.0	10.0	1.0	0.60	P3475-ND	.39	3.33	27.78	166.00	ECQ-P4822JU
	.01	5%	19.5	6.5	16.5	10.0	1.0	0.60	P3476-ND	.40	3.43	28.60	171.00	ECQ-P4103JU
	.012	5%	19.5	6.5	18.5	10.0	1.0	0.60	P3477-ND	.42	3.58	29.85	178.00	ECQ-P4123JU
	.015	5%	19.5	6.0	18.5	10.0	1.0	0.60	P3478-ND	.43	3.72	31.03	185.00	ECQ-P4153JU
	.018	5%	19.5	6.0	19.0	10.0	1.0	0.60	P3479-ND	.45	3.87	32.23	192.00	ECQ-P4183JU
	.022	5%	19.5	6.0	19.4	10.0	1.0	0.60	P3480-ND	.47	3.99	33.25	199.00	ECQ-P4223JU
	.027	5%	19.5	6.5	20.0	10.0	1.0	0.60	P3481-ND	.48	4.10	34.13	204.00	ECQ-P4273JU
	.033	5%	19.5	7.0	21.8	15.0	1.0	0.60	P3482-ND	.49	4.24	35.30	211.00	ECQ-P4333JU
	.039	5%	19.5	7.5	22.8	15.0	1.0	0.60	P3483-ND	.51	4.34	36.18	216.00	ECQ-P4393JU
	.047	5%	19.5	8.0	23.4	15.0	1.0	0.60	P3484-ND	.60	5.13	42.78	255.00	ECQ-P4473JU
	.056	5%	24.5	7.0	22.0	15.0	1.5	0.80	P3485-ND	.60	5.18	43.20	258.00	ECQ-P4563JU
	.068	5%	24.5	7.5	23.0	15.0	1.5	0.80	P3486-ND	.65	5.58	46.50	278.00	ECQ-P4683JU
	.082	5%	24.5	8.5	23.8	15.0	1.5	0.80	P3487-ND	.70	6.00	50.03	299.00	ECQ-P4823JU
	.1	5%	24.5	9.0	26.6	20.0	1.5	0.80	P3488-ND	.82	7.00	58.33	348.00	ECQ-P4104JU
	.12	5%	24.5	10.0	27.4	20.0	1.5	0.80	P3489-ND	.83	7.16	59.63	356.00	ECQ-P4124JU
	.15	5%	24.5	11.0	28.6	20.0	1.5	0.80	P3490-ND	.94	8.02	66.80	399.00	ECQ-P4154JU
	.18	5%	29.5	10.5	26.0	20.0	1.5	0.80	P3491-ND	1.03	8.81	73.45	439.00	ECQ-P4184JU
	.22	5%	29.5	11.5	27.0	20.0	1.5	0.80	P3492-ND	1.15	9.83	81.90	489.00	ECQ-P4224JU
	.27	5%	29.5	13.0	28.4	20.0	1.5	0.80	P3493-ND	1.31	11.23	93.55	559.00	ECQ-P4274JU
	.33	5%	29.5	15.0	29.8	20.0	1.5	0.80	P3494-ND	1.44	12.34	102.83	614.00	ECQ-P4334JU
	.39	5%	35.0	15.0	30.0	20.0	1.5	0.80	P3495-ND	1.51	12.95	107.95	644.00	ECQ-P4394JU
	.47	5%	35.0	16.5	31.4	20.0	1.5	0.80	P3496-ND	1.61	13.82	115.15	687.00	ECQ-P4474JU
630	.001	5%	14.5	.0	15.5	10.0	1.0	0.60	P3497-ND	.33	2.80	23.30	139.00	ECQ-P6102JU
	.0012	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3498-ND	.33	2.80	23.30	139.00	ECQ-P6122JU

WV DC	Cap. µF	Toler- ance	Dimensions (mm)						Digi-Key Part No.	Pricing				Panasonic Part No.
			L	T	H	F	G	d		1	10	100	1,000	
630	.0015	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3499-ND	.33	2.80	23.30	139.00	ECQ-P6152JU
	.0018	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3500-ND	.33	2.80	23.30	139.00	ECQ-P6182JU
	.0022	5%	14.5	5.5	15.5	10.0	1.0	0.60	P3501-ND	.33	2.80	23.30	139.00	ECQ-P6222JU
	.0027	5%	14.5	5.5	16.0	10.0	1.0	0.60	P3502-ND	.33	2.80	23.30	139.00	ECQ-P6272JU
	.0033	5%	14.5	6.0	16.5	10.0	1.0	0.60	P3503-ND	.33	2.80	23.30	139.00	ECQ-P6332JU
	.0039	5%	14.5	6.0	18.5	10.0	1.0	0.60	P3504-ND	.33	2.80	23.30	139.00	ECQ-P6392JU
	.0047	5%	14.5	6.5	18.5	10.0	1.0	0.60	P3505-ND	.33	2.80	23.30	139.00	ECQ-P6472JU
	.0056	5%	14.5	7.0	19.0	10.0	1.0	0.60	P3506-ND	.33	2.80	23.30	139.00	ECQ-P6562JU
	.0068	5%	19.5	5.5	18.6	10.0	1.0	0.60	P3507-ND	.36	3.08	25.68	153.00	ECQ-P6682JU
	.0082	5%	19.5	6.0	19.0	10.0	1.0	0.60	P3508-ND	.39	3.32	27.65	165.00	ECQ-P6822JU
	.01	5%	19.5	6.0	19.4	10.0	1.0	0.60	P3509-ND	.41	3.56	29.63	177.00	ECQ-P6103JU
	.012	5%	19.5	6.5	19.8	10.0	1.0	0.60	P3510-ND	.44	3.79	31.60	189.00	ECQ-P6123JU
	.015	5%	19.5	7.0	20.4	15.0	1.0	0.60	P3511-ND	.47	4.03	33.58	200.00	ECQ-P6153JU
	.018	5%	19.5	7.0	22.6	15.0	1.0	0.60	P3512-ND	.50	4.27	35.55	212.00	ECQ-P6183JU
	.022	5%	19.5	8.0	23.4	15.0	1.0	0.60	P3513-ND	.51	4.41	36.73	219.00	ECQ-P6223JU
	.027	5%	19.5	8.5	24.2	15.0	1.0	0.60	P3514-ND	.55	4.74	39.50	236.00	ECQ-P6273JU
	.033	5%	24.5	8.0	23.2	15.0	1.5	0.80	P3515-ND	.57	4.88	40.68	243.00	ECQ-P6333JU
	.039	5%	24.5	8.5	23.8	15.0	1.5	0.80	P3516-ND	.63	5.40	45.03	269.00	ECQ-P6393JU
	.047	5%	24.5	9.0	24.6	15.0	1.5	0.80	P3517-ND	.72	6.16	51.35	307.00	ECQ-P6473JU
	.056	5%	24.5	10.0	27.4	20.0	1.5	0.80	P3518-ND	.72	6.16	51.35	307.00	ECQ-P6563JU
	.068	5%	24.5	11.0	28.4	20.0	1.5	0.80	P3519-ND	.80	6.83	56.88	340.00	ECQ-P6683JU
	.082	5%	29.5	10.5	25.6	25.0	1.5	0.80	P3520-ND	.86	7.40	61.63	368.00	ECQ-P6823JU
	.1	5%	29.5	11.5	26.8	25.0	1.5	0.80	P3521-ND	.93	8.01	66.75	399.00	ECQ-P6104JU

ECWF(B) Series Metallized Polypropylene Film Capacitors

Designed for applications where high current and high frequency are required.

Features: • Low-loss • Excellent frequency characteristics • Flame retardant epoxy resin coating

Applications: • High frequency and high current circuits (TV, display, monitor, power supplÏy, etc.)

Electrical Specifications: • Temperature Range: -25°C ~ 85°C • Rated Voltage: 250VDC (150Vrms, 250Vp-p), 400VDC (200Vrms, 400Vp-p) • Dissipation Factor: .068 to .51µF: 0.05% max. (20°C, 1kHz) 250VDC, .56 to 4.7µF: 0.1% max. (20°C, 1kHz) 250VDC, .068 to 4.7µF: 0.2% maximum (20°C, 10kHz) 250VDC, .068 to 1.5µF: 0.1% maximum (20°C, 1kHz) 400VDC • Withstand Voltage: Between terminals.- Rated voltage: (VDC) x 150% for 60s • Insulation Resistance: 9,000 MΩ minimum, for values 0.068 to .33µF, 3,000 MΩ/µF minimum, for 0.36 to 4.7µF (20°C, 100VDC, 60s)

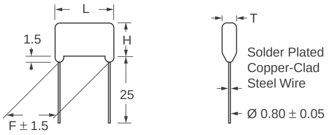

WV DC	Cap. µF	Toler- ance	Dimensions (mm)				Digi-Key Part No.	Pricing					Panasonic Part No.
			L	T	H	F		1	10	100	1,000	5,000	
250	.068	5%	18.0	6.0	13.0	15.0	PF2683-ND	.49	4.18	34.83	209.00	196.00/M	ECW-F2683JB
	.082	5%	18.0	6.5	13.5	15.0	PF2823-ND	.49	4.18	34.83	209.00	196.00/M	ECW-F2823JB
	.1	5%	18.0	7.0	14.0	15.0	PF2104-ND	.49	4.18	34.83	209.00	196.00/M	ECW-F2104JB
	.12	5%	18.0	7.5	14.5	15.0	PF2124-ND	.50	4.28	35.65	213.00	201.00/M	ECW-F2124JB
	.15	5%	18.0	8.5	15.0	15.0	PF2154-ND	.55	4.71	39.23	235.00	221.00/M	ECW-F2154JB
	.18	5%	18.0	6.5	13.5	15.0	PF2184-ND	.55	4.73	39.45	236.00	223.00/M	ECW-F2184JB
	.22	5%	18.0	7.0	14.0	15.0	PF2224-ND	.56	4.82	40.20	241.00	227.00/M	ECW-F2224JB
	.27	5%	18.0	8.0	14.5	15.0	PF2274-ND	.58	4.95	41.28	247.00	233.00/M	ECW-F2274JB
	.33	5%	18.0	8.5	15.0	15.0	PF2334-ND	.59	5.08	42.35	254.00	239.00/M	ECW-F2334JB
	.39	5%	18.0	9.0	16.0	15.0	PF2394-ND	.62	5.34	44.50	266.00	251.00/M	ECW-F2394JB
	.47	5%	23.0	8.0	15.0	20.0	PF2474-ND	.65	5.59	46.58	279.00	263.00/M	ECW-F2474JB
	.56	5%	23.0	8.5	15.5	20.0	PF2564-ND	.68	5.85	48.73	292.00	275.00/M	ECW-F2564JB
	.68	5%	23.0	9.5	16.5	20.0	PF2684-ND	.71	6.10	50.83	304.00	287.00/M	ECW-F2684JB
	.82	5%	23.0	10.5	17.0	20.0	PF2824-ND	.73	6.23	51.88	311.00	293.00/M	ECW-F2824JB
	1.0	5%	23.0	11.5	18.0	20.0	PF2105-ND	.79	6.74	56.13	336.00	317.00/M	ECW-F2105JB
	1.2	5%	23.0	12.5	19.5	20.0	PF2125-ND	1.38	11.86	98.85	592.00	558.00/M	ECW-F2125JB
	1.5	5%	23.0	14.0	21.0	20.0	PF2155-ND	1.48	12.71	105.88	634.00	597.00/M	ECW-F2155JB
	1.8	5%	28.0	12.5	21.0	25.0	PF2185-ND	1.61	13.76	114.70	687.00	647.00/M	ECW-F2185JB
	2.2	5%	28.0	14.0	22.5	25.0	PF2225-ND	1.73	14.82	123.53	740.00	697.00/M	ECW-F2225JB
	2.7	5%	28.0	15.5	24.0	25.0	PF2275-ND	1.99	17.08	142.33	852.00	803.00/M	ECW-F2275JB

WV DC	Cap. µF	Toler- ance	Dimensions (mm)				Digi-Key Part No.	Pricing					Panasonic Part No.
			L	T	H	F		1	10	100	1,000	5,000	
250	3.3	5%	28.0	17.0	26.0	25.0	PF2335-ND	2.79	23.91	199.25	1193.00	1124.00/M	ECW-F2335JB
	3.9	5%	33.0	16.5	25.5	30.0	PF2395-ND	3.03	26.00	216.70	1298.00	1223.00/M	ECW-F2395JB
	4.7	5%	33.0	18.0	27.0	30.0	PF2475-ND	3.14	26.90	224.18	1342.00	1265.00/M	ECW-F2475JB
400	.068	5%	18.0	6.5	13.0	15.0	PF4683-ND	1.53	13.13	102.84	656.40	612.64/M	ECW-F4683JB
	.082	5%	18.0	7.0	13.5	15.0	PF4823-ND	1.53	13.13	102.84	656.40	612.64/M	ECW-F4823JB
	.1	5%	18.0	7.5	14.0	15.0	PF4104-ND	1.53	13.13	102.84	656.40	612.64/M	ECW-F4104JB
	.12	5%	18.0	8.0	15.0	15.0	PF4124-ND	1.54	13.22	103.59	661.20	617.12/M	ECW-F4124JB
	.15	5%	18.0	8.5	15.5	15.0	PF4154-ND	1.70	14.54	113.86	726.75	678.30/M	ECW-F4154JB
	.18	5%	18.0	9.5	16.5	15.0	PF4184-ND	1.71	14.63	114.63	731.70	682.92/M	ECW-F4184JB
	.22	5%	20.0	9.5	16.5	17.0	PF4224-ND	1.74	14.91	116.82	745.65	695.94/M	ECW-F4224JB
	.27	5%	20.0	10.5	17.0	17.0	PF4274-ND	1.81	15.53	121.68	776.70	724.92/M	ECW-F4274JB
	.33	5%	20.0	11.5	18.0	17.0	PF4334-ND	1.87	16.00	125.35	800.10	746.76/M	ECW-F4334JB
	.39	5%	23.0	13.5	20.5	20.0	PF4394-ND	1.92	16.47	129.04	823.65	768.74/M	ECW-F4394JB
	.47	5%	23.0	14.5	21.5	20.0	PF4474-ND	2.03	17.42	136.42	870.75	812.70/M	ECW-F4474JB
	.56	5%	23.0	13.0	20.0	20.0	PF4564-ND	2.14	18.35	143.77	917.70	856.52/M	ECW-F4564JB
	.68	5%	23.0	14.5	21.5	20.0	PF4684-ND	2.25	19.30	151.15	964.80	900.48/M	ECW-F4684JB
	.82	5%	28.0	14.0	20.5	25.0	PF4824-ND	2.36	20.24	158.53	1011.90	944.44/M	ECW-F4824JB
	1.0	5%	28.0	15.0	22.0	25.0	PF4105-ND	2.47	21.18	165.89	1058.85	988.26/M	ECW-F4105JB
	1.2	5%	28.0	16.5	23.5	25.0	PF4125-ND	2.64	22.59	176.98	1129.65	1054.34/M	ECW-F4125JB
	1.5	5%	28.0	18.5	25.5	25.0	PF4155-ND	2.80	24.00	188.02	1200.15	1120.14/M	ECW-F4155JB

Panasonic® Metallized Polypropylene Film Capacitors - ECWF(L)

Non-inductive construction using Polypropylene film with flame retardant epoxy resin coating.

Features: • Miniaturized

Recommended Applications: • Lighting • Power supply • Industrial use • Suitable for high current and high frequency curcuits

Electrical Specifications: • Temperature Range: -40°C ~ 85°C (105°C) • Rated Voltage: 400VDC, 630VDC • Lead Material: *400V:* 0.022µF to 0.11µF Tin-plated, Copper-clad, Steel-wire; 0.12µF to 2.4µF Tin-plated, Copper-wire *630V:* 0.01µF to 0.043µF Tin-plated, Copper-clad, Steel-wire; 0.047µF to 1.3µF Tin-plated, Copper-wire • Capacitance Tolerance: ±3% (H), ±5% (J) • Withstanding Voltage: Rated voltage x 150% for 60s • Insulation Resistance: 9,000MΩ minimum, for values equal to or less than .33µF. 3,000 MΩ/µF minimum, for greater than .33µF (20°C, 100VDC and 500VDC, 60s) • Dissipation Factor: 0.05% maximum at 1kHz and 20°C.

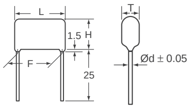

WV	Cap.	Toler-	Dimensions (mm)					Digi-Key	Pricing				Panasonic
DC	µF	ance	L	T	H	F	d	Part No.	1	10	100	1,000	Part No.
400 WV	.022	±3%	12.5	5.8	8.6	10.0	0.6	P12059-ND	1.32	11.29	88.43	564.45	ECW-F4223HL
	.024	±3%	12.5	6.0	8.8	10.0	0.6	P12061-ND	1.32	11.29	88.43	564.45	ECW-F4243HL
	.027	±3%	12.5	6.2	9.0	10.0	0.6	P12063-ND	1.38	11.80	92.45	590.10	ECW-F4273HL
	.03	±3%	12.5	6.4	9.3	10.0	0.6	P12065-ND	1.38	11.80	92.45	590.10	ECW-F4303HL
	.033	±3%	12.5	6.7	9.5	10.0	0.6	P12067-ND	1.44	12.32	96.47	615.75	ECW-F4333HL
	.036	±3%	12.5	5.7	8.4	10.0	0.6	P12069-ND	1.44	12.32	96.47	615.75	ECW-F4363HL
	.039	±3%	12.5	5.8	8.6	10.0	0.6	P12071-ND	1.50	12.83	100.49	641.40	ECW-F4393HL
	.043	±3%	12.5	6.0	8.8	10.0	0.6	P12073-ND	1.50	12.83	100.49	641.40	ECW-F4433HL
	.047	±3%	12.5	6.2	9.0	10.0	0.6	P12075-ND	1.56	13.34	104.53	667.20	ECW-F4473HL
	.051	±3%	12.5	6.4	9.2	10.0	0.6	P12077-ND	1.56	13.34	104.53	667.20	ECW-F4513HL
	.056	±3%	12.5	6.6	9.4	10.0	0.6	P12079-ND	1.62	13.86	108.55	692.85	ECW-F4563HL
	.062	±3%	13.0	6.8	9.6	10.0	0.8	P12081-ND	1.62	13.86	108.55	692.85	ECW-F4623HL
	.068	±3%	13.0	7.0	9.9	10.0	0.8	P12083-ND	1.65	14.11	110.54	705.60	ECW-F4683HL
	.075	±3%	13.0	7.3	10.1	10.0	0.8	P12085-ND	1.65	14.11	110.54	705.60	ECW-F4753HL
	.082	±3%	13.0	7.5	10.4	10.0	0.8	P12087-ND	1.65	14.11	110.54	705.60	ECW-F4823HL
	.091	±3%	13.0	7.8	10.7	10.0	0.8	P12089-ND	1.65	14.11	110.54	705.60	ECW-F4913HL
	.1	±3%	15.5	6.5	11.0	12.5	0.8	P12091-ND	1.65	14.11	110.54	705.60	ECW-F4104HL
	.11	±3%	15.5	6.8	11.3	12.5	0.8	P12093-ND	1.68	14.41	112.89	720.60	ECW-F4114HL
	.12	±3%	15.5	7.0	11.5	12.5	0.8	P12095-ND	1.69	14.45	113.22	722.70	ECW-F4124HL
	.13	±3%	15.5	7.2	11.8	12.5	0.8	P12097-ND	1.77	15.18	118.91	759.00	ECW-F4134HL
	.15	±3%	15.5	7.6	12.2	12.5	0.8	P12099-ND	1.86	15.91	124.62	795.45	ECW-F4154HL
	.16	±3%	15.5	7.8	12.4	12.5	0.8	P12101-ND	1.86	15.95	124.95	797.55	ECW-F4164HL
	.18	±3%	15.5	8.2	12.8	12.5	0.8	P12103-ND	1.87	15.99	125.28	799.65	ECW-F4184HL
	.2	±3%	15.5	8.6	13.3	12.5	0.8	P12105-ND	1.89	16.21	126.95	810.30	ECW-F4204HL
	.22	±3%	15.5	9.0	13.6	12.5	0.8	P12107-ND	1.90	16.29	127.63	814.65	ECW-F4224HL
	.24	±3%	18.0	8.3	13.0	15.0	0.8	P12192-ND	1.93	16.53	129.46	826.35	ECW-F4244HL
	.27	±3%	18.0	8.8	13.4	15.0	0.8	P12193-ND	1.95	16.74	131.13	837.00	ECW-F4274HL
	.3	±3%	18.0	9.2	13.9	15.0	0.8	P12194-ND	1.98	16.96	132.82	847.80	ECW-F4304HL
	.33	±3%	18.0	9.6	14.3	15.0	0.8	P12195-ND	2.00	17.17	134.49	858.45	ECW-F4334HL
	.36	±3%	18.0	9.9	14.7	15.0	0.8	P12196-ND	2.05	17.60	137.85	879.90	ECW-F4364HL
	.39	±3%	18.0	10.3	15.1	15.0	0.8	P12197-ND	2.10	18.03	141.24	901.50	ECW-F4394HL
	.43	±3%	18.0	10.7	15.6	15.0	0.8	P12198-ND	2.15	18.46	144.60	922.95	ECW-F4434HL
	.47	±3%	18.0	11.2	16.1	15.0	0.8	P12199-ND	2.20	18.89	147.96	944.40	ECW-F4474HL
	.51	±3%	20.5	10.3	16.8	17.5	0.8	P12200-ND	2.25	19.32	151.32	965.85	ECW-F4514HL
	.56	±3%	20.5	10.7	17.3	17.5	0.8	P12201-ND	2.30	19.75	154.68	987.30	ECW-F4564HL
	.62	±3%	20.5	11.3	17.9	17.5	0.8	P12202-ND	2.35	20.18	158.04	1008.75	ECW-F4624HL
	.68	±3%	20.5	11.8	18.5	17.5	0.8	P12203-ND	2.40	20.60	161.40	1030.20	ECW-F4684HL
	.75	±3%	20.5	12.3	19.1	17.5	0.8	P12204-ND	2.45	21.03	164.76	1051.65	ECW-F4754HL
	.82	±3%	23.0	11.8	18.5	20.0	0.8	P12205-ND	2.50	21.46	168.12	1073.10	ECW-F4824HL
	.91	±3%	23.0	12.4	19.2	20.0	0.8	P12206-ND	2.58	22.11	173.17	1105.35	ECW-F4914HL
	1.0	±3%	23.0	13.0	19.8	20.0	0.8	P12207-ND	2.65	22.75	178.22	1137.60	ECW-F4105HL
	1.1	±3%	23.0	13.6	20.5	20.0	0.8	P12208-ND	2.73	23.39	183.25	1169.70	ECW-F4115HL
	1.2	±3%	28.0	12.3	19.1	25.0	0.8	P12209-ND	2.80	24.04	188.31	1201.95	ECW-F4125HL
	1.3	±3%	28.0	12.8	19.6	25.0	0.8	P12210-ND	2.90	24.90	195.03	1244.85	ECW-F4135HL
	1.5	±3%	28.0	13.7	20.7	25.0	0.8	P12211-ND	3.00	25.76	201.75	1287.75	ECW-F4155HL
	1.6	±3%	28.0	14.2	21.2	25.0	0.8	P12212-ND	3.13	26.83	210.16	1341.45	ECW-F4165HL
	1.8	±3%	28.0	15.2	22.2	25.0	0.8	P12213-ND	3.26	27.90	218.55	1395.00	ECW-F4185HL
	2.0	±3%	28.0	16.0	23.1	25.0	0.8	P12214-ND	3.38	28.97	226.96	1448.70	ECW-F4205HL
	2.2	±3%	28.0	16.8	24.0	25.0	0.8	P12215-ND	3.51	30.05	235.38	1502.40	ECW-F4225HL
	2.4	±3%	28.0	17.5	24.8	25.0	0.8	P12216-ND	3.63	31.12	243.79	1556.10	ECW-F4245HL
	.022	±5%	12.5	5.8	8.6	10.0	0.6	P12060-ND	1.10	9.41	73.70	470.40	ECW-F4223JL
	.024	±5%	12.5	6.0	8.8	10.0	0.6	P12062-ND	1.10	9.41	73.70	470.40	ECW-F4243JL
	.027	±5%	12.5	6.2	9.0	10.0	0.6	P12064-ND	1.15	9.84	77.06	491.85	ECW-F4273JL
	.03	±5%	12.5	6.4	9.3	10.0	0.6	P12066-ND	1.15	9.84	77.06	491.85	ECW-F4303JL
	.033	±5%	12.5	6.7	9.5	10.0	0.6	P12068-ND	1.20	10.26	80.39	513.15	ECW-F4333JL
	.036	±5%	12.5	5.7	8.4	10.0	0.6	P12070-ND	1.20	10.26	80.39	513.15	ECW-F4363JL
	.039	±5%	12.5	5.8	8.6	10.0	0.6	P12072-ND	1.25	10.69	83.75	534.60	ECW-F4393JL
	.043	±5%	12.5	6.0	8.8	10.0	0.6	P12074-ND	1.25	10.69	83.75	534.60	ECW-F4433JL
	.047	±5%	12.5	6.2	9.0	10.0	0.6	P12076-ND	1.30	11.12	87.09	555.90	ECW-F4473JL
	.051	±5%	12.5	6.4	9.2	10.0	0.6	P12078-ND	1.30	11.12	87.09	555.90	ECW-F4513JL
	.056	±5%	12.5	6.6	9.4	10.0	0.6	P12080-ND	1.35	11.55	90.45	577.35	ECW-F4563JL
	.062	±5%	13.0	6.8	9.6	10.0	0.8	P12082-ND	1.35	11.55	90.45	577.35	ECW-F4623JL
	.068	±5%	13.0	7.0	9.9	10.0	0.8	P12084-ND	1.40	11.97	93.79	598.65	ECW-F4683JL
	.075	±5%	13.0	7.3	10.1	10.0	0.8	P12086-ND	1.40	11.97	93.79	598.65	ECW-F4753JL
	.082	±5%	13.0	7.5	10.4	10.0	0.8	P12088-ND	1.40	11.97	93.79	598.65	ECW-F4823JL
	.091	±5%	13.0	7.8	10.7	10.0	0.8	P12090-ND	1.40	11.97	93.79	598.65	ECW-F4913JL
	.1	±5%	15.5	6.5	11.0	12.5	0.8	P12092-ND	1.40	11.97	93.79	598.65	ECW-F4104JL
	.11	±5%	15.5	6.8	11.3	12.5	0.8	P12094-ND	1.40	12.02	94.14	600.90	ECW-F4114JL
	.12	±5%	15.5	7.0	11.5	12.5	0.8	P12096-ND	1.41	12.06	94.47	603.00	ECW-F4124JL
	.13	±5%	15.5	7.2	11.8	12.5	0.8	P12098-ND	1.48	12.66	99.15	632.85	ECW-F4134JL
	.15	±5%	15.5	7.6	12.2	12.5	0.8	P12100-ND	1.55	13.26	103.85	662.85	ECW-F4154JL
	.16	±5%	15.5	7.8	12.4	12.5	0.8	P12102-ND	1.55	13.30	104.18	664.95	ECW-F4164JL
	.18	±5%	15.5	8.2	12.8	12.5	0.8	P12104-ND	1.56	13.34	104.53	667.20	ECW-F4184JL
	.2	±5%	15.5	8.6	13.3	12.5	0.8	P12106-ND	1.58	13.52	105.87	675.75	ECW-F4204JL
	.22	±5%	15.5	9.0	13.6	12.5	0.8	P12108-ND	1.59	13.60	106.53	679.95	ECW-F4224JL
	.24	±5%	18.0	8.3	13.0	15.0	0.8	P12217-ND	1.63	13.95	109.28	697.50	ECW-F4244JL
	.27	±5%	18.0	8.8	13.4	15.0	0.8	P12218-ND	1.65	14.17	110.97	708.30	ECW-F4274JL
	.3	±5%	18.0	9.2	13.9	15.0	0.8	P12219-ND	1.68	14.38	112.66	719.10	ECW-F4304JL
	.33	±5%	18.0	9.6	14.3	15.0	0.8	P12220-ND	1.70	14.60	114.33	729.75	ECW-F4334JL
	.36	±5%	18.0	9.9	14.7	15.0	0.8	P12221-ND	1.73	14.81	116.02	740.55	ECW-F4364JL
	.39	±5%	18.0	10.3	15.1	15.0	0.8	P12222-ND	1.75	15.02	117.69	751.20	ECW-F4394JL
	.43	±5%	18.0	10.7	15.6	15.0	0.8	P12223-ND	1.80	15.45	121.05	772.65	ECW-F4434JL
	.47	±5%	18.0	11.2	16.1	15.0	0.8	P12224-ND	1.85	15.88	124.41	794.10	ECW-F4474JL
	.51	±5%	20.5	10.3	16.8	17.5	0.8	P12225-ND	1.90	16.31	127.77	815.55	ECW-F4514JL
	.56	±5%	20.5	10.7	17.3	17.5	0.8	P12226-ND	1.95	16.74	131.13	837.00	ECW-F4564JL
	.62	±5%	20.5	11.3	17.9	17.5	0.8	P12227-ND	2.00	17.17	134.49	858.45	ECW-F4624JL
	.68	±5%	20.5	11.8	18.5	17.5	0.8	P12228-ND	2.05	17.60	137.85	879.90	ECW-F4684JL
	.75	±5%	20.5	12.3	19.1	17.5	0.8	P12229-ND	2.10	18.03	141.24	901.50	ECW-F4754JL
	.82	±5%	23.0	11.8	18.5	20.0	0.8	P12230-ND	2.15	18.46	144.60	922.95	ECW-F4824JL
	.91	±5%	23.0	12.4	19.2	20.0	0.8	P12231-ND	2.20	18.89	147.96	944.40	ECW-F4914JL
	1.0	±5%	23.0	13.0	19.8	20.0	0.8	P12232-ND	2.25	19.32	151.32	965.85	ECW-F4105JL
	1.1	±5%	23.0	13.6	20.5	20.0	0.8	P12233-ND	2.33	19.96	156.35	997.95	ECW-F4115JL
	1.2	±5%	28.0	12.3	19.1	25.0	0.8	P12234-ND	2.40	20.60	161.40	1030.20	ECW-F4125JL
	1.3	±5%	28.0	12.8	19.6	25.0	0.8	P12235-ND	2.48	21.25	166.45	1062.45	ECW-F4135JL
	1.5	±5%	28.0	13.7	20.7	25.0	0.8	P12236-ND	2.55	21.89	171.48	1094.55	ECW-F4155JL
	1.6	±5%	28.0	14.2	21.2	25.0	0.8	P12237-ND	2.65	22.75	178.22	1137.60	ECW-F4165JL
	1.8	±5%	28.0	15.2	22.2	25.0	0.8	P12238-ND	2.75	23.61	184.95	1180.50	ECW-F4185JL
	2.0	±5%	28.0	16.0	23.1	25.0	0.8	P12239-ND	2.88	24.68	193.33	1234.05	ECW-F4205JL
	2.2	±5%	28.0	16.8	24.0	25.0	0.8	P12240-ND	3.00	25.76	201.75	1287.75	ECW-F4225JL
	2.4	±5%	28.0	17.5	24.8	25.0	0.8	P12241-ND	3.13	26.83	210.16	1341.45	ECW-F4245JL
630 WV	.01	±3%	12.5	5.2	8.0	10.0	0.6	P12109-ND	1.33	11.40	89.32	570.15	ECW-F6103HL
	.011	±3%	12.5	5.4	8.2	10.0	0.6	P12111-ND	1.33	11.40	89.32	570.15	ECW-F6113HL
	.012	±3%	12.5	5.5	8.3	10.0	0.6	P12113-ND	1.33	11.40	89.32	570.15	ECW-F6123HL
	.013	±3%	12.5	5.6	8.5	10.0	0.6	P12115-ND	1.33	11.40	89.32	570.15	ECW-F6133HL
	.015	±3%	12.5	5.9	8.7	10.0	0.6	P12117-ND	1.33	11.40	89.32	570.15	ECW-F6153HL
	.016	±3%	12.5	6.0	8.9	10.0	0.6	P12119-ND	1.33	11.40	89.32	570.15	ECW-F6163HL
	.018	±3%	12.5	6.2	9.1	10.0	0.6	P12121-ND	1.40	11.97	93.79	598.65	ECW-F6183HL
	.02	±3%	12.5	6.5	9.3	10.0	0.6	P12123-ND	1.40	11.97	93.79	598.65	ECW-F6203HL
	.022	±3%	12.5	6.2	9.0	10.0	0.6	P12125-ND	1.21	10.38	81.29	518.85	ECW-F6223HL
	.024	±3%	12.5	6.4	9.2	10.0	0.6	P12127-ND	1.46	12.54	98.25	627.15	ECW-F6243HL
	.027	±3%	13.0	6.6	9.5	10.0	0.8	P12129-ND	1.53	13.11	102.72	655.65	ECW-F6273HL
	.03	±3%	13.0	6.9	9.7	10.0	0.8	P12131-ND	1.53	13.11	102.72	655.65	ECW-F6303HL
	.033	±3%	13.0	7.1	10.0	10.0	0.8	P12133-ND	1.60	13.69	107.21	684.30	ECW-F6333HL
	.036	±3%	13.0	7.3	10.2	10.0	0.8	P12135-ND	1.60	13.69	107.21	684.30	ECW-F6363HL
	.039	±3%	13.0	7.6	10.4	10.0	0.8	P12137-ND	1.66	14.26	111.67	712.80	ECW-F6393HL
	.043	±3%	13.0	7.9	10.7	10.0	0.8	P12139-ND	1.66	14.26	111.67	712.80	ECW-F6433HL
	.047	±3%	15.5	6.4	10.8	12.5	0.8	P12141-ND	1.73	14.83	116.14	741.30	ECW-F6473HL
	.051	±3%	15.5	6.6	11.0	12.5	0.8	P12143-ND	1.73	14.83	116.14	741.30	ECW-F6513HL
	.056	±3%	15.5	6.8	11.2	12.5	0.8	P12145-ND	1.80	15.40	120.60	769.80	ECW-F6563HL
	.062	±3%	15.5	7.1	11.5	12.5	0.8	P12147-ND	1.80	15.40	120.60	769.80	ECW-F6623HL
	.068	±3%	15.5	7.4	11.8	12.5	0.8	P12149-ND	1.83	15.68	122.83	784.05	ECW-F6683HL
	.075	±3%	15.5	7.7	12.1	12.5	0.8	P12151-ND	1.83	15.68	122.83	784.05	ECW-F6753HL
	.082	±3%	15.5	8.0	12.4	12.5	0.8	P12153-ND	1.83	15.68	122.83	784.05	ECW-F6823HL
	.091	±3%	15.5	8.3	12.7	12.5	0.8	P12155-ND	1.83	15.68	122.83	784.05	ECW-F6913HL
	.1	±3%	18.0	7.7	12.1	15.0	0.8	P12157-ND	1.83	15.68	122.83	784.05	ECW-F6104HL
	.11	±3%	18.0	8.0	12.4	15.0	0.8	P12159-ND	1.87	16.01	125.44	800.70	ECW-F6114HL
	.12	±3%	18.0	8.3	12.7	15.0	0.8	P12161-ND	1.87	16.06	125.80	802.95	ECW-F6124HL
	.13	±3%	18.0	8.5	13.0	15.0	0.8	P12163-ND	1.97	16.87	132.14	843.45	ECW-F6134HL
	.15	±3%	18.0	9.1	13.5	15.0	0.8	P12165-ND	2.06	17.68	138.46	883.80	ECW-F6154HL
	.16	±3%	18.0	9.3	13.8	15.0	0.8	P12167-ND	2.07	17.72	138.84	886.20	ECW-F6164HL
	.18	±3%	18.0	9.8	14.2	15.0	0.8	P12169-ND	2.07	17.77	139.21	888.60	ECW-F6184HL
	.2	±3%	18.0	10.3	14.7	15.0	0.8	P12171-ND	2.10	18.01	141.07	900.45	ECW-F6204HL
	.22	±3%	18.0	10.8	15.5	15.0	0.8	P12173-ND	2.11	18.10	141.80	905.10	ECW-F6224HL
	.24	±3%	18.0	11.2	15.9	15.0	0.8	P12242-ND	2.12	18.20	142.55	909.90	ECW-F6244HL
	.27	±3%	20.5	10.4	16.7	17.5	0.8	P12243-ND	2.15	18.46	144.60	922.95	ECW-F6274HL
	.3	±3%	20.5	10.9	17.2	17.5	0.8	P12244-ND	2.18	18.67	146.26	933.60	ECW-F6304HL
	.33	±3%	20.5	11.4	17.7	17.5	0.8	P12245-ND	2.20	18.89	147.96	944.40	ECW-F6334HL
	.36	±3%	20.5	11.9	18.5	17.5	0.8	P12246-ND	2.23	19.10	149.62	955.05	ECW-F6364HL

(Continued)

WV DC	Cap. µF	Toler-ance	L	T	H	F	d	Digi-Key Part No.	1	10	100	1,000	Panasonic Part No.
			Dimensions (mm)						Pricing				
630 WV	.39	±3%	20.5	12.4	19.0	17.5	0.8	P12247-ND	2.25	19.32	151.32	965.85	ECW-F6394HL
	.43	±3%	20.5	13.0	19.5	17.5	0.8	P12248-ND	2.30	19.75	154.68	987.30	ECW-F6434HL
	.47	±3%	20.5	13.5	20.1	17.5	0.8	P12249-ND	2.35	20.18	158.04	1008.75	ECW-F6474HL
	.51	±3%	28.0	11.1	17.3	25.0	0.8	P12250-ND	2.40	20.60	161.40	1030.20	ECW-F6514HL
	.56	±3%	28.0	11.6	17.8	25.0	0.8	P12251-ND	2.45	21.03	164.76	1051.65	ECW-F6564HL
	.62	±3%	28.0	12.1	18.7	25.0	0.8	P12252-ND	2.50	21.46	168.12	1073.10	ECW-F6624HL
	.68	±3%	28.0	12.7	19.3	25.0	0.8	P12253-ND	2.58	22.11	173.17	1105.35	ECW-F6684HL
	.75	±3%	28.0	13.3	19.9	25.0	0.8	P12254-ND	2.65	22.75	178.22	1137.60	ECW-F6754HL
	.82	±3%	28.0	13.9	20.5	25.0	0.8	P12255-ND	2.73	23.39	183.25	1169.70	ECW-F6824HL
	.91	±3%	28.0	14.6	21.2	25.0	0.8	P12256-ND	2.80	24.04	188.31	1201.95	ECW-F6914HL
	1.0	±3%	28.0	15.5	22.3	25.0	0.8	P12257-ND	2.90	24.90	195.03	1244.85	ECW-F6105HL
	1.1	±3%	28.0	16.3	23.0	25.0	0.8	P12258-ND	3.00	25.76	201.75	1287.75	ECW-F6115HL
	1.2	±3%	28.0	17.0	23.7	25.0	0.8	P12259-ND	3.13	26.83	210.16	1341.45	ECW-F6125HL
	1.3	±3%	28.0	17.6	24.4	25.0	0.8	P12260-ND	3.26	27.90	218.55	1395.00	ECW-F6135HL
	.01	±5%	12.5	5.2	8.0	10.0	0.6	P12110-ND	1.11	9.50	74.45	475.20	ECW-F6103JL
	.011	±5%	12.5	5.4	8.2	10.0	0.6	P12112-ND	1.11	9.50	74.45	475.20	ECW-F6113JL
	.012	±5%	12.5	5.5	8.3	10.0	0.6	P12114-ND	1.11	9.50	74.45	475.20	ECW-F6123JL
	.013	±5%	12.5	5.6	8.5	10.0	0.6	P12116-ND	1.11	9.50	74.45	475.20	ECW-F6133JL
	.015	±5%	12.5	5.9	8.7	10.0	0.6	P12118-ND	1.11	9.50	74.45	475.20	ECW-F6153JL
	.016	±5%	12.5	6.0	8.9	10.0	0.6	P12120-ND	1.11	9.50	74.45	475.20	ECW-F6163JL
	.018	±5%	12.5	6.2	9.1	10.0	0.6	P12122-ND	1.16	9.98	78.16	498.90	ECW-F6183JL
	.02	±5%	12.5	6.5	9.3	10.0	0.6	P12124-ND	1.16	9.98	78.16	498.90	ECW-F6203JL
	.022	±5%	12.5	6.2	9.0	10.0	0.6	P12126-ND	1.22	10.46	81.90	522.75	ECW-F6223JL
	.024	±5%	12.5	6.4	9.2	10.0	0.6	P12128-ND	1.22	10.46	81.90	522.75	ECW-F6243JL
	.027	±5%	13.0	6.6	9.5	10.0	0.8	P12130-ND	1.28	10.93	85.61	546.45	ECW-F6273JL
	.03	±5%	13.0	6.9	9.7	10.0	0.8	P12132-ND	1.28	10.93	85.61	546.45	ECW-F6303JL
	.033	±5%	13.0	7.1	10.0	10.0	0.8	P12134-ND	1.33	11.40	89.32	570.15	ECW-F6333JL
	.036	±5%	13.0	7.3	10.2	10.0	0.8	P12136-ND	1.33	11.40	89.32	570.15	ECW-F6363JL
	.039	±5%	13.0	7.6	10.4	10.0	0.8	P12138-ND	1.39	11.88	93.06	594.00	ECW-F6393JL
	.043	±5%	13.0	7.9	10.7	10.0	0.8	P12140-ND	1.39	11.88	93.06	594.00	ECW-F6433JL
	.047	±5%	15.5	6.4	10.8	12.5	0.8	P12142-ND	1.44	12.35	96.77	617.70	ECW-F6473JL
	.051	±5%	15.5	6.6	11.0	12.5	0.8	P12144-ND	1.44	12.35	96.77	617.70	ECW-F6513JL
	.056	±5%	15.5	6.8	11.2	12.5	0.8	P12146-ND	1.50	12.83	100.49	641.40	ECW-F6563JL

WV DC	Cap. µF	Toler-ance	L	T	H	F	d	Digi-Key Part No.	1	10	100	1,000	Panasonic Part No.
			Dimensions (mm)						Pricing				
630 WV	.062	±5%	15.5	7.1	11.5	12.5	0.8	P12148-ND	1.50	12.83	100.49	641.40	ECW-F6623JL
	.068	±5%	15.5	7.4	11.8	12.5	0.8	P12150-ND	1.55	13.31	104.22	665.25	ECW-F6683JL
	.075	±5%	15.5	7.7	12.1	12.5	0.8	P12152-ND	1.55	13.31	104.22	665.25	ECW-F6753JL
	.082	±5%	15.5	8.0	12.4	12.5	0.8	P12154-ND	1.55	13.31	104.22	665.25	ECW-F6823JL
	.091	±5%	15.5	8.3	12.7	12.5	0.8	P12156-ND	1.55	13.31	104.22	665.25	ECW-F6913JL
	.1	±5%	18.0	7.7	12.1	15.0	0.8	P12158-ND	1.55	13.31	104.22	665.25	ECW-F6104JL
	.11	±5%	18.0	8.0	12.4	15.0	0.8	P12160-ND	1.56	13.35	104.60	667.65	ECW-F6114JL
	.12	±5%	18.0	8.3	12.7	15.0	0.8	P12162-ND	1.56	13.40	104.97	670.05	ECW-F6124JL
	.13	±5%	18.0	8.5	13.0	15.0	0.8	P12164-ND	1.64	14.06	110.17	703.20	ECW-F6134JL
	.15	±5%	18.0	9.1	13.5	15.0	0.8	P12166-ND	1.72	14.73	115.39	736.50	ECW-F6154JL
	.16	±5%	18.0	9.3	13.8	15.0	0.8	P12168-ND	1.72	14.78	115.76	738.90	ECW-F6164JL
	.18	±5%	18.0	9.8	14.2	15.0	0.8	P12170-ND	1.73	14.83	116.14	741.30	ECW-F6184JL
	.2	±5%	18.0	10.3	14.7	15.0	0.8	P12172-ND	1.75	15.02	117.62	750.75	ECW-F6204JL
	.22	±5%	18.0	10.8	15.5	15.0	0.8	P12174-ND	1.76	15.11	118.37	755.55	ECW-F6224JL
	.24	±5%	18.0	11.2	15.9	15.0	0.8	P12261-ND	1.78	15.25	119.47	762.60	ECW-F6244JL
	.27	±5%	20.5	10.4	16.7	17.5	0.8	P12262-ND	1.83	15.67	122.74	783.45	ECW-F6274JL
	.3	±5%	20.5	10.9	17.2	17.5	0.8	P12263-ND	1.85	15.88	124.41	794.10	ECW-F6304JL
	.33	±5%	20.5	11.4	17.7	17.5	0.8	P12264-ND	1.88	16.10	126.10	804.90	ECW-F6334JL
	.36	±5%	20.5	11.9	18.5	17.5	0.8	P12265-ND	1.90	16.31	127.77	815.55	ECW-F6364JL
	.39	±5%	20.5	12.4	19.0	17.5	0.8	P12266-ND	1.93	16.53	129.46	826.35	ECW-F6394JL
	.43	±5%	20.5	13.0	19.5	17.5	0.8	P12267-ND	1.95	16.74	131.13	837.00	ECW-F6434JL
	.47	±5%	20.5	13.5	20.1	17.5	0.8	P12268-ND	1.98	16.96	132.82	847.80	ECW-F6474JL
	.51	±5%	28.0	11.1	17.3	25.0	0.8	P12269-ND	2.00	17.17	134.49	858.45	ECW-F6514JL
	.56	±5%	28.0	11.6	17.8	25.0	0.8	P12270-ND	2.05	17.60	137.85	879.90	ECW-F6564JL
	.62	±5%	28.0	12.1	18.7	25.0	0.8	P12271-ND	2.10	18.03	141.24	901.50	ECW-F6624JL
	.68	±5%	28.0	12.7	19.3	25.0	0.8	P12272-ND	2.15	18.46	144.60	922.95	ECW-F6684JL
	.75	±5%	28.0	13.3	19.9	25.0	0.8	P12273-ND	2.20	18.89	147.96	944.40	ECW-F6754JL
	.82	±5%	28.0	13.9	20.5	25.0	0.8	P12274-ND	2.25	19.32	151.32	965.85	ECW-F6824JL
	.91	±5%	28.0	14.6	21.2	25.0	0.8	P12275-ND	2.33	19.96	156.35	997.95	ECW-F6914JL
	1.0	±5%	28.0	15.5	22.3	25.0	0.8	P12276-ND	2.40	20.60	161.40	1030.20	ECW-F6105JL
	1.1	±5%	28.0	16.3	23.0	25.0	0.8	P12277-ND	2.48	21.25	166.45	1062.45	ECW-F6115JL
	1.2	±5%	28.0	17.0	23.7	25.0	0.8	P12278-ND	2.55	21.89	171.48	1094.55	ECW-F6125JL
	1.3	±5%	28.0	17.6	24.4	25.0	0.8	P12279-ND	2.65	22.75	178.22	1137.60	ECW-F6135JL

Panasonic High Voltage Metallized Polypropylene Film Capacitors - ECWH(V)

Designed for applications where high frequency and high pulse are required.

Features:

- Low-loss and inherent temperature rise • Excellent electrical characteristics
- Flame-retardant epoxy resin coating

Recommended Applicati ons:

- High pulse circuits (TV, displays, electronic ballast, etc.)

Electrical Specifications:

- Temperature Range: -25°C ~ 85°C • Rated Voltage: 1250VDC) 1600VDC) • Capacitance Tolerance: ±5% • Dissipation Factor: 0.1% or less at 1kHz, 0.2% or less at 10kHz • Withstand Voltage: Between terminals - Rated voltage (VDC) x 150% for 60s Terminal to Enclosure - 1500VAC for 60s • Insulation Resistance: 30,000 MΩ min., at 500VDC), 20° for 60s

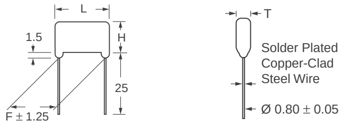

WV DC	Cap. µF	Toler-ance	L	T	H	F	Digi-Key Part No.	1	10	100	1,000	5,000	Panasonic Part No.
			Dimensions (mm)					Pricing					
1250 WV	.0010	±5%	18.0	6.5	13.5	15.0	P10470-ND	.79	6.76	52.95	337.95	315.42/M	ECW-H12102JV
	.0012	±5%	18.0	7.0	13.5	15.0	P10471-ND	.79	6.76	52.95	337.95	315.42/M	ECW-H12122JV
	.0015	±5%	18.0	6.5	13.5	15.0	P10472-ND	.82	7.07	55.37	353.40	329.84/M	ECW-H12152JV
	.0018	±5%	18.0	7.0	14.0	15.0	P10473-ND	.82	7.07	55.37	353.40	329.84/M	ECW-H12182JV
	.0022	±5%	18.0	6.5	13.5	15.0	P10474-ND	.86	7.35	57.58	367.50	343.00/M	ECW-H12222JV
	.0027	±5%	18.0	7.0	14.0	15.0	P10475-ND	.89	7.60	59.55	380.10	354.76/M	ECW-H12272JV
	.0033	±5%	18.0	7.5	14.5	15.0	P10476-ND	.91	7.80	61.08	389.85	363.86/M	ECW-H12332JV
	.0039	±5%	18.0	6.0	12.5	15.0	P10477-ND	.91	7.80	61.08	389.85	363.86/M	ECW-H12392JV
	.0047	±5%	18.0	6.0	13.0	15.0	P10478-ND	.91	7.80	61.08	389.85	363.86/M	ECW-H12472JV
	.0056	±5%	18.0	6.5	13.5	15.0	P10479-ND	.95	8.11	63.52	405.45	378.42/M	ECW-H12562JV
	.0068	±5%	18.0	7.0	13.5	15.0	P10480-ND	1.05	9.01	70.57	450.45	420.42/M	ECW-H12682JV
	.0082	±5%	18.0	7.5	14.0	15.0	P10481-ND	1.10	9.43	73.86	471.45	440.02/M	ECW-H12822JV
	.010	±5%	18.0	8.0	15.0	15.0	P10482-ND	1.13	9.71	76.09	485.70	453.32/M	ECW-H12103JV
	.012	±5%	18.0	8.5	15.5	15.0	P10483-ND	1.19	10.16	79.59	508.05	474.18/M	ECW-H12123JV
	.015	±5%	18.0	9.5	16.0	15.0	P10484-ND	1.31	11.19	87.66	559.50	522.20/M	ECW-H12153JV
	.018	±5%	23.0	7.5	16.0	20.0	P10485-ND	1.45	12.47	97.69	623.55	581.98/M	ECW-H12183JV
	.022	±5%	23.0	8.5	16.5	20.0	P10486-ND	1.58	13.57	106.27	678.30	633.08/M	ECW-H12223JV
	.027	±5%	23.0	9.0	17.5	20.0	P10487-ND	1.92	16.44	128.80	822.15	767.34/M	ECW-H12273JV
	.033	±5%	23.0	10.0	18.5	20.0	P10488-ND	2.15	18.44	144.41	921.75	860.30/M	ECW-H12333JV
	.039	±5%	23.0	10.5	19.5	20.0	P10489-ND	2.18	18.68	146.36	934.20	871.92/M	ECW-H12393JV
	.047	±5%	23.0	11.5	20.5	20.0	P10490-ND	2.33	19.93	156.11	996.45	930.02/M	ECW-H12473JV
	.056	±5%	28.0	11.5	20.5	25.0	P10491-ND	2.47	21.17	165.86	1058.70	988.12/M	ECW-H12563JV
	.068	±5%	28.0	12.5	21.5	25.0	P10492-ND	2.62	22.42	175.62	1120.95	1046.22/M	ECW-H12683JV
	.082	±5%	28.0	14.0	22.5	25.0	P10493-ND	2.76	23.66	185.37	1183.20	1104.32/M	ECW-H12823JV
	.10	±5%	28.0	15.5	24.0	25.0	P10494-ND	2.91	24.91	195.12	1245.45	1162.42/M	ECW-H12104JV

WV DC	Cap. µF	Toler-ance	L	T	H	F	Digi-Key Part No.	1	10	100	1,000	5,000	Panasonic Part No.
			Dimensions (mm)					Pricing					
1600 WV	.0010	±5%	18.0	6.5	13.5	15.0	P10495-ND	.63	5.40	42.32	270.15	252.14/M	ECW-H16102JV
	.0012	±5%	18.0	7.0	13.5	15.0	P10496-ND	.63	5.40	42.32	270.15	252.14/M	ECW-H16122JV
	.0015	±5%	18.0	6.5	13.5	15.0	P10497-ND	.63	5.40	42.32	270.15	252.14/M	ECW-H16152JV
	.0018	±5%	18.0	7.0	14.0	15.0	P10498-ND	.63	5.40	42.32	270.15	252.14/M	ECW-H16182JV
	.0022	±5%	18.0	6.0	12.5	15.0	P10499-ND	.63	5.40	42.32	270.15	252.14/M	ECW-H16222JV
	.0027	±5%	18.0	6.0	13.0	15.0	P10500-ND	.63	5.40	42.32	270.15	252.14/M	ECW-H16272JV
	.0033	±5%	18.0	6.5	13.5	15.0	P10501-ND	.63	5.40	42.32	270.15	252.14/M	ECW-H16332JV
	.0039	±5%	18.0	7.0	14.0	15.0	P10502-ND	.63	5.40	42.32	270.15	252.14/M	ECW-H16392JV
	.0047	±5%	23.0	6.5	14.5	20.0	P10503-ND	.76	6.49	50.81	324.30	302.68/M	ECW-H16472JV
	.0056	±5%	23.0	6.5	15.0	20.0	P10504-ND	.76	6.49	50.81	324.30	302.68/M	ECW-H16562JV
	.0068	±5%	23.0	7.0	15.5	20.0	P10505-ND	.76	6.49	50.81	324.30	302.68/M	ECW-H16682JV
	.0082	±5%	23.0	7.5	16.0	20.0	P10506-ND	.76	6.49	50.81	324.30	302.68/M	ECW-H16822JV
	.010	±5%	23.0	8.0	16.5	20.0	P10507-ND	.76	6.49	50.81	324.30	302.68/M	ECW-H16103JV
	.012	±5%	23.0	9.0	17.0	20.0	P10508-ND	1.79	15.31	119.92	765.45	714.42/M	ECW-H16123JV
	.015	±5%	23.0	9.5	18.0	20.0	P10509-ND	1.79	15.31	119.92	765.45	714.42/M	ECW-H16153JV
	.018	±5%	23.0	10.5	19.5	20.0	P10510-ND	1.79	15.31	119.92	765.45	714.42/M	ECW-H16183JV
	.022	±5%	28.0	9.5	18.0	25.0	P10511-ND	2.37	20.34	159.31	1016.85	949.06/M	ECW-H16223JV
	.027	±5%	28.0	10.5	19.5	25.0	P10512-ND	2.78	23.87	186.94	1193.25	1113.70/M	ECW-H16273JV
	.033	±5%	28.0	11.5	20.5	25.0	P10513-ND	2.78	23.87	186.94	1193.25	1113.70/M	ECW-H16333JV
	.039	±5%	28.0	13.5	22.0	25.0	P10514-ND	2.78	23.87	186.94	1193.25	1113.70/M	ECW-H16393JV
	.047	±5%	28.0	15.0	23.5	25.0	P10515-ND	2.78	23.87	186.94	1193.25	1113.70/M	ECW-H16473JV
	.056	±5%	28.0	16.0	24.5	25.0	P10516-ND	2.78	23.87	186.94	1193.25	1113.70/M	ECW-H16563JV

COMPONENTS

Metallized Polypropylene Filter Capacitors

MKP 416 to 420 Series

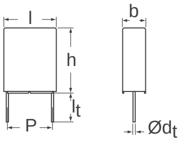

Applications: • Low losses due to low contact resistance and low loss dielectric result in applications where high frequency occurs or high stability is preferred
• Their small dimensions make them suitable for circuits with high packaging density
Specifications: • **Rated Temperature (DC):** 85°C • **Capacitance Tolerance:** ±2%

Volt-age (VDC)	Capaci-tance (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	ød$_t$		1	10	100	
MKP 416 Series												
63	.036	4.5	9.0	7.2	5.0	4.0	.50	BC2065-ND	.54	.46	.31	2222 416 43603
	.039	4.5	9.0	7.2	5.0	4.0	.50	BC2066-ND	.54	.46	.31	2222 416 43903
	.043	4.5	9.0	7.2	5.0	4.0	.50	BC2067-ND	.54	.46	.31	2222 416 44303
	.047	4.5	9.0	7.2	5.0	4.0	.50	BC2068-ND	.55	.48	.32	2222 416 44703
	.051	6.0	11.0	7.2	5.0	4.0	.50	BC2069-ND	.55	.48	.32	2222 416 45103
	.056	6.0	11.0	7.2	5.0	4.0	.50	BC2070-ND	.57	.49	.33	2222 416 45603
	.062	6.0	11.0	7.2	5.0	4.0	.50	BC2071-ND	.58	.51	.34	2222 416 46203
	.068	6.0	11.0	7.2	5.0	4.0	.50	BC2072-ND	.60	.52	.35	2222 416 46803
	.075	6.0	11.0	7.2	5.0	4.0	.50	BC2073-ND	.60	.52	.35	2222 416 47503
	.082	6.0	11.0	7.2	5.0	4.0	.50	BC2074-ND	.62	.54	.36	2222 416 48203
	.091	6.0	11.0	7.2	5.0	4.0	.50	BC2075-ND	.62	.54	.36	2222 416 49103
	.10	6.0	11.0	7.2	5.0	4.0	.50	BC2054-ND	.62	.54	.36	2222 416 41004
	.11	6.0	11.0	7.2	5.0	4.0	.50	BC2055-ND	.65	.56	.37	2222 416 41104
	.12	6.0	11.0	7.2	5.0	4.0	.50	BC2056-ND	.67	.57	.38	2222 416 41204
	.13	5.0	11.0	12.5	10.0	4.0	.60	BC2057-ND	.67	.57	.38	2222 416 41304
	.15	5.0	11.0	12.5	10.0	4.0	.60	BC2058-ND	.68	.59	.39	2222 416 41504
	.16	6.0	12.0	12.5	10.0	4.0	.60	BC2059-ND	.70	.60	.40	2222 416 41604
	.18	6.0	12.0	12.5	10.0	4.0	.60	BC2060-ND	.71	.62	.41	2222 416 41804
	.20	6.0	12.0	12.5	10.0	4.0	.60	BC2061-ND	.72	.63	.42	2222 416 42004
	.22	6.0	12.0	12.5	10.0	4.0	.60	BC2062-ND	.75	.64	.43	2222 416 42204
	.24	6.0	12.0	12.5	10.0	4.0	.60	BC2063-ND	.78	.67	.45	2222 416 42404
	.27	6.0	12.0	12.5	10.0	4.0	.60	BC2064-ND	.81	.70	.47	2222 416 42704
	.30	6.0	12.0	17.5	15.0	3.5	.60	BC2078-ND	.79	.68	.45	2222 416 73004
	.33	6.0	12.0	17.5	15.0	3.5	.60	BC2079-ND	.81	.69	.46	2222 416 73304
	.36	6.0	12.0	17.5	15.0	3.5	.60	BC2080-ND	.84	.73	.49	2222 416 73604
	.39	6.0	12.0	17.5	15.0	3.5	.60	BC2081-ND	.89	.76	.51	2222 416 73904
	.43	7.0	13.5	17.5	15.0	3.5	.80	BC2082-ND	.92	.79	.53	2222 416 74304
	.47	7.0	13.5	17.5	15.0	3.5	.80	BC2083-ND	.96	.82	.55	2222 416 74704
	.51	7.0	13.5	17.5	15.0	3.5	.80	BC2084-ND	1.00	.86	.58	2222 416 75104
	.56	7.0	13.5	17.5	15.0	3.5	.80	BC2085-ND	1.02	.88	.59	2222 416 75604
	.62	8.5	15.0	17.5	15.0	3.5	.80	BC2086-ND	1.08	.93	.62	2222 416 76204
	.68	8.5	15.0	17.5	15.0	3.5	.80	BC2087-ND	1.13	.97	.65	2222 416 76804
	.75	8.5	15.0	17.5	15.0	3.5	.80	BC2088-ND	1.19	1.03	.69	2222 416 77504
	.82	8.5	15.0	17.5	15.0	3.5	.80	BC2089-ND	1.28	1.11	.74	2222 416 78204
	.91	10.0	16.5	17.5	15.0	3.5	.80	BC2090-ND	1.38	1.19	.79	2222 416 79104
	1.0	10.0	16.5	17.5	15.0	3.5	.80	BC2076-ND	1.45	1.25	.83	2222 416 71005
	1.1	10.0	16.5	17.5	15.0	3.5	.80	BC2077-ND	1.58	1.35	.90	2222 416 71105
MKP 417 Series												
160	.024	4.5	9.0	7.2	5.0	4.0	.50	BC2100-ND	.57	.49	.33	2222 417 42403
	.03	4.5	9.0	7.2	5.0	4.0	.50	BC2103-ND	.58	.51	.34	2222 417 43003
	.036	6.0	11.0	7.2	5.0	4.0	.50	BC2105-ND	.58	.51	.34	2222 417 43603
	.039	6.0	11.0	7.2	5.0	4.0	.50	BC2106-ND	.58	.51	.34	2222 417 43903
	.043	6.0	11.0	7.2	5.0	4.0	.50	BC2107-ND	.58	.51	.34	2222 417 44303
	.047	6.0	11.0	7.2	5.0	4.0	.50	BC2108-ND	.60	.52	.35	2222 417 44703
	.051	6.0	11.0	7.2	5.0	4.0	.50	BC2109-ND	.62	.54	.36	2222 417 45103
	.056	6.0	11.0	7.2	5.0	4.0	.50	BC2110-ND	.63	.54	.36	2222 417 45603
	.062	6.0	11.0	7.2	5.0	4.0	.50	BC2111-ND	.65	.56	.37	2222 417 46203
	.068	6.0	11.0	7.2	5.0	4.0	.50	BC2112-ND	.67	.57	.38	2222 417 46803
	.075	4.0	10.0	12.5	10.0	4.0	.60	BC2113-ND	.67	.57	.38	2222 417 47503
	.082	4.0	10.0	12.5	10.0	4.0	.60	BC2114-ND	.67	.57	.38	2222 417 48203
	.091	4.0	10.0	12.5	10.0	4.0	.60	BC2115-ND	.68	.59	.39	2222 417 49103
	.11	5.0	11.0	12.5	10.0	4.0	.60	BC2092-ND	.71	.62	.41	2222 417 41104
	.12	5.0	11.0	12.5	10.0	4.0	.60	BC2093-ND	.72	.63	.42	2222 417 41204
	.15	5.0	11.0	12.5	10.0	4.0	.60	BC2095-ND	.75	.64	.43	2222 417 41504
	.16	6.0	12.0	12.5	10.0	4.0	.60	BC2096-ND	.77	.66	.44	2222 417 41604
	.18	6.0	12.0	12.5	10.0	4.0	.60	BC2097-ND	.78	.67	.45	2222 417 41804
	.20	6.0	12.0	12.5	10.0	4.0	.60	BC2098-ND	.79	.68	.46	2222 417 42004
	.24	6.0	12.0	12.5	10.0	4.0	.60	BC2101-ND	.84	.72	.48	2222 417 42404
	.27	5.0	11.0	17.5	15.0	3.5	.80	BC2118-ND	.79	.68	.46	2222 417 72704
	.30	6.0	12.0	17.5	15.0	3.5	.60	BC2119-ND	.85	.73	.49	2222 417 73004
	.33	6.0	12.0	17.5	15.0	3.5	.60	BC2120-ND	.87	.75	.50	2222 417 73304
	.36	6.0	12.0	17.5	15.0	3.5	.60	BC2121-ND	.91	.78	.52	2222 417 73604
	.39	6.0	12.0	17.5	15.0	3.5	.60	BC2122-ND	.96	.82	.55	2222 417 73904
	.43	7.0	13.5	17.5	15.0	3.5	.80	BC2123-ND	.99	.86	.57	2222 417 74304
	.51	7.0	13.5	17.5	15.0	3.5	.80	BC2125-ND	1.08	.93	.62	2222 417 75104
	.56	7.0	13.5	17.5	15.0	3.5	.80	BC2126-ND	1.10	.95	.63	2222 417 75604
	.62	8.5	15.0	17.5	15.0	3.5	.80	BC2127-ND	1.17	1.00	.67	2222 417 76204
	.75	8.5	15.0	17.5	15.0	3.5	.80	BC2129-ND	1.29	1.11	.74	2222 417 77504
	.82	8.5	15.0	17.5	15.0	3.5	.80	BC2130-ND	1.39	1.19	.80	2222 417 78204
	.91	10.0	16.5	17.5	15.0	3.5	.80	BC2131-ND	1.49	1.28	.86	2222 417 79104
MKP 418 Series												
250	.011	3.5	8.0	7.2	5.0	4.0	.50	BC2134-ND	.49	.42	.28	2222 418 41103
	.012	3.5	8.0	7.2	5.0	4.0	.50	BC2136-ND	.49	.42	.28	2222 418 41203
	.013	3.5	8.0	7.2	5.0	4.0	.50	BC2138-ND	.49	.42	.28	2222 418 41303
	.015	3.5	8.0	7.2	5.0	4.0	.50	BC2140-ND	.52	.45	.30	2222 418 41503
	.016	4.5	9.0	7.2	5.0	4.0	.50	BC2141-ND	.54	.46	.31	2222 418 41603
	.02	4.5	9.0	7.2	5.0	4.0	.50	BC2143-ND	.57	.49	.33	2222 418 42003
	.024	4.5	9.0	7.2	5.0	4.0	.50	BC2145-ND	.60	.52	.35	2222 418 42403
	.027	6.0	11.0	7.2	5.0	4.0	.50	BC2146-ND	.62	.54	.36	2222 418 42703
	.03	6.0	11.0	7.2	5.0	4.0	.50	BC2147-ND	.63	.54	.36	2222 418 43003
	.036	6.0	11.0	7.2	5.0	4.0	.50	BC2149-ND	.65	.56	.37	2222 418 43603
	.039	6.0	11.0	7.2	5.0	4.0	.50	BC2150-ND	.65	.56	.37	2222 418 43903
	.043	6.0	11.0	7.2	5.0	4.0	.50	BC2151-ND	.67	.57	.38	2222 418 44303
	.051	4.0	10.0	12.5	10.0	4.0	.60	BC2153-ND	.70	.60	.40	2222 418 45103
250	.056	4.0	10.0	12.5	10.0	4.0	.60	BC2154-ND	.70	.60	.40	2222 418 45603
	.062	4.0	10.0	12.5	10.0	4.0	.60	BC2155-ND	.71	.62	.41	2222 418 46203
	.068	4.0	10.0	12.5	10.0	4.0	.60	BC2156-ND	.58	.50	.34	2222 418 46803
	.075	5.0	11.0	12.5	10.0	4.0	.60	BC2157-ND	.72	.63	.42	2222 418 47503
	.082	5.0	11.0	12.5	10.0	4.0	.60	BC2158-ND	.75	.64	.43	2222 418 48203
	.091	5.0	11.0	12.5	10.0	4.0	.60	BC2159-ND	.77	.66	.44	2222 418 49103
	.11	6.0	12.0	12.5	10.0	4.0	.60	BC2135-ND	.79	.68	.46	2222 418 41104
	.12	6.0	12.0	12.5	10.0	4.0	.60	BC2137-ND	.81	.70	.47	2222 418 41204
	.13	6.0	12.0	12.5	10.0	4.0	.60	BC2139-ND	.84	.72	.48	2222 418 41304
	.15	5.0	11.0	17.5	15.0	3.5	.60	BC2160-ND	.75	.64	.43	2222 418 71504
	.16	5.0	11.0	17.5	15.0	3.5	.60	BC2161-ND	.77	.67	.45	2222 418 71604
	.18	6.0	12.0	17.5	15.0	3.5	.60	BC2162-ND	.81	.70	.47	2222 418 71804
	.20	6.0	12.0	17.5	15.0	3.5	.60	BC2163-ND	.84	.73	.49	2222 418 72004
	.24	6.0	12.0	17.5	15.0	3.5	.60	BC2165-ND	.90	.78	.52	2222 418 72404
	.27	7.0	13.5	17.5	15.0	3.5	.80	BC2166-ND	.93	.81	.54	2222 418 72704
	.30	7.0	13.5	17.5	15.0	3.5	.80	BC2167-ND	.96	.83	.55	2222 418 73004
	.33	7.0	13.5	17.5	15.0	3.5	.80	BC2168-ND	1.00	.86	.57	2222 418 73304
	.36	7.0	13.5	17.5	15.0	3.5	.80	BC2169-ND	1.05	.91	.61	2222 418 73604
	.39	8.5	15.0	17.5	15.0	3.5	.80	BC2170-ND	1.12	.96	.64	2222 418 73904
	.43	8.5	15.0	17.5	15.0	3.5	.80	BC2171-ND	1.18	1.02	.68	2222 418 74304
	.47	8.5	15.0	17.5	15.0	3.5	.80	BC2172-ND	1.25	1.07	.72	2222 418 74704
	.51	8.5	15.0	17.5	15.0	3.5	.80	BC2173-ND	1.33	1.14	.76	2222 418 75104
	.56	10.0	16.5	17.5	15.0	3.5	.80	BC2174-ND	1.41	1.21	.81	2222 418 75604
	.62	10.0	16.5	17.5	15.0	3.5	.80	BC2175-ND	1.49	1.29	.86	2222 418 76204
MKP 419 Series												
400	.001	3.5	8.0	7.2	5.0	4.0	.50	BC2177-ND	.37	.33	.22	2222 419 41002
	.0012	3.5	8.0	7.2	5.0	4.0	.50	BC2181-ND	.37	.33	.22	2222 419 41202
	.0013	3.5	8.0	7.2	5.0	4.0	.50	BC2183-ND	.37	.33	.22	2222 419 41302
	.0016	3.5	8.0	7.2	5.0	4.0	.50	BC2187-ND	.42	.36	.24	2222 419 41602
	.0018	3.5	8.0	7.2	5.0	4.0	.50	BC2189-ND	.42	.36	.24	2222 419 41802
	.0022	3.5	8.0	7.2	5.0	4.0	.50	BC2193-ND	.42	.36	.24	2222 419 42202
	.0024	3.5	8.0	7.2	5.0	4.0	.50	BC2195-ND	.42	.36	.24	2222 419 42402
	.0027	3.5	8.0	7.2	5.0	4.0	.50	BC2197-ND	.44	.38	.25	2222 419 42702
	.003	3.5	8.0	7.2	5.0	4.0	.50	BC2199-ND	.44	.38	.25	2222 419 43002
	.0033	3.5	8.0	7.2	5.0	4.0	.50	BC2201-ND	.44	.38	.25	2222 419 43302
	.0036	3.5	8.0	7.2	5.0	4.0	.50	BC2203-ND	.44	.38	.25	2222 419 43602
	.0039	3.5	8.0	7.2	5.0	4.0	.50	BC2205-ND	.44	.38	.25	2222 419 43902
	.0043	4.5	9.0	7.2	5.0	4.0	.50	BC2207-ND	.44	.38	.25	2222 419 44302
	.0056	4.5	9.0	7.2	5.0	4.0	.50	BC2213-ND	.46	.39	.26	2222 419 45602
	.0062	4.5	9.0	7.2	5.0	4.0	.50	BC2215-ND	.47	.41	.27	2222 419 46202
	.0082	4.5	9.0	7.2	5.0	4.0	.50	BC2220-ND	.50	.43	.29	2222 419 48202
	.0091	4.5	9.0	7.2	5.0	4.0	.50	BC2221-ND	.50	.43	.29	2222 419 49102
	.011	4.5	9.0	7.2	5.0	4.0	.50	BC2180-ND	.54	.46	.31	2222 419 41103
	.013	6.0	11.0	7.2	5.0	4.0	.50	BC2184-ND	.55	.48	.32	2222 419 41303
	.015	6.0	11.0	7.2	5.0	4.0	.50	BC2186-ND	.57	.49	.33	2222 419 41503
	.016	6.0	11.0	7.2	5.0	4.0	.50	BC2188-ND	.58	.51	.34	2222 419 41603
	.018	6.0	11.0	7.2	5.0	4.0	.50	BC2190-ND	.60	.52	.35	2222 419 41803
	.02	6.0	11.0	7.2	5.0	4.0	.50	BC2192-ND	.62	.54	.36	2222 419 42003
	.024	4.0	10.0	12.5	10.0	4.0	.60	BC2196-ND	.65	.56	.37	2222 419 42403
	.03	4.0	10.0	12.5	10.0	4.0	.60	BC2200-ND	.68	.59	.39	2222 419 43003
	.033	4.0	10.0	12.5	10.0	4.0	.60	BC2202-ND	.70	.60	.40	2222 419 43303
	.036	5.0	11.0	12.5	10.0	4.0	.60	BC2204-ND	.71	.62	.41	2222 419 43603
	.039	5.0	11.0	12.5	10.0	4.0	.60	BC2206-ND	.72	.63	.42	2222 419 43903
	.043	5.0	11.0	12.5	10.0	4.0	.60	BC2208-ND	.75	.64	.43	2222 419 44303
	.051	6.0	12.0	12.5	10.0	4.0	.60	BC2212-ND	.77	.66	.44	2222 419 45103
	.056	6.0	12.0	12.5	10.0	4.0	.60	BC2214-ND	.78	.67	.45	2222 419 45603
	.062	6.0	12.0	12.5	10.0	4.0	.60	BC2216-ND	.79	.68	.46	2222 419 46203
	.068	6.0	12.0	12.5	10.0	4.0	.60	BC2218-ND	.81	.70	.47	2222 419 46803
	.075	5.0	11.0	17.5	15.0	3.5	.60	BC2236-ND	.79	.68	.46	2222 419 77503
	.082	5.0	11.0	17.5	15.0	3.5	.60	BC2237-ND	.79	.69	.46	2222 419 78203
	.091	6.0	12.0	17.5	15.0	3.5	.60	BC2238-ND	.81	.69	.46	2222 419 79103
	.11	6.0	12.0	17.5	15.0	3.5	.60	BC2223-ND	.82	.71	.47	2222 419 71104
	.12	6.0	12.0	17.5	15.0	3.5	.60	BC2224-ND	.83	.72	.48	2222 419 71204
	.13	6.0	12.0	17.5	15.0	3.5	.60	BC2225-ND	.86	.75	.50	2222 419 71304
	.15	7.0	13.5	17.5	15.0	3.5	.80	BC2226-ND	.90	.78	.52	2222 419 71504
	.16	7.0	13.5	17.5	15.0	3.5	.80	BC2227-ND	.93	.81	.54	2222 419 71604
	.18	7.0	13.5	17.5	15.0	3.5	.80	BC2228-ND	.98	.84	.56	2222 419 71804
	.20	8.5	15.0	17.5	15.0	3.5	.80	BC2229-ND	1.03	.88	.59	2222 419 72004
	.22	8.5	15.0	17.5	15.0	3.5	.80	BC2230-ND	1.08	.93	.62	2222 419 72204
	.24	8.5	15.0	17.5	15.0	3.5	.80	BC2231-ND	1.16	.99	.66	2222 419 72404
	.27	8.5	15.0	17.5	15.0	3.5	.80	BC2232-ND	1.22	1.05	.70	2222 419 72704
	.30	10.0	16.5	17.5	15.0	3.5	.80	BC2233-ND	1.30	1.12	.75	2222 419 73004
	.33	10.0	16.5	17.5	15.0	3.5	.80	BC2234-ND	1.38	1.18	.79	2222 419 73304
	.36	10.0	16.5	17.5	15.0	3.5	.80	BC2235-ND	1.44	1.24	.83	2222 419 73604
MKP 420 Series												
630	.0015	3.5	8.0	7.2	5.0	4.0	.50	BC2243-ND	.46	.39	.26	2222 420 41502
	.0016	3.5	8.0	7.2	5.0	4.0	.50	BC2245-ND	.46	.39	.26	2222 420 41602
	.0018	3.5	8.0	7.2	5.0	4.0	.50	BC2247-ND	.46	.39	.26	2222 420 41802
	.002	3.5	8.0	7.2	5.0	4.0	.50	BC2249-ND	.46	.39	.26	2222 420 42002

(Continued)

Metallized Polypropylene Filter Capacitors MKP 416 to 420 Series *(Cont.)*

Voltage (VDC)	Capacitance (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	ød$_t$		1	10	100	
630	.0024	3.5	8.0	7.2	5.0	4.0	.50	BC2253-ND	.46	.39	.26	2222 420 42402
	.0027	3.5	8.0	7.2	5.0	4.0	.50	BC2255-ND	.47	.41	.27	2222 420 42702
	.003	4.5	9.0	7.2	5.0	4.0	.50	BC2257-ND	.47	.41	.27	2222 420 43002
	.0033	4.5	9.0	7.2	5.0	4.0	.50	BC2259-ND	.47	.41	.27	2222 420 43302
	.0036	4.5	9.0	7.2	5.0	4.0	.50	BC2261-ND	.47	.41	.27	2222 420 43602
	.0039	4.5	9.0	7.2	5.0	4.0	.50	BC2263-ND	.47	.41	.27	2222 420 43902
	.0043	6.0	11.0	7.2	5.0	4.0	.50	BC2265-ND	.47	.41	.27	2222 420 44302
	.0051	6.0	11.0	7.2	5.0	4.0	.50	BC2269-ND	.49	.42	.28	2222 420 45102
	.0056	6.0	11.0	7.2	5.0	4.0	.50	BC2270-ND	.49	.42	.28	2222 420 45602
	.0062	6.0	11.0	7.2	5.0	4.0	.50	BC2271-ND	.50	.43	.29	2222 420 46202
	.0068	6.0	11.0	7.2	5.0	4.0	.50	BC2272-ND	.50	.43	.29	2222 420 46802
	.0075	6.0	11.0	7.2	5.0	4.0	.50	BC2273-ND	.52	.45	.30	2222 420 47502
	.0091	6.0	11.0	7.2	5.0	4.0	.50	BC2275-ND	.55	.48	.32	2222 420 49102
	.011	4.0	10.0	12.5	10.0	4.0	.60	BC2240-ND	.60	.52	.35	2222 420 41103
	.012	4.0	10.0	12.5	10.0	4.0	.60	BC2241-ND	.62	.54	.36	2222 420 41203
	.013	4.0	10.0	12.5	10.0	4.0	.60	BC2242-ND	.63	.54	.36	2222 420 41303
	.015	4.0	10.0	12.5	10.0	4.0	.60	BC2244-ND	.65	.56	.37	2222 420 41503
	.016	4.0	10.0	12.5	10.0	4.0	.60	BC2246-ND	.65	.56	.37	2222 420 41603
	.018	5.0	11.0	12.5	10.0	4.0	.60	BC2248-ND	.67	.57	.38	2222 420 41803
630	.02	5.0	11.0	12.5	10.0	4.0	.60	BC2250-ND	.68	.59	.39	2222 420 42003
	.024	5.0	11.0	12.5	10.0	4.0	.60	BC2254-ND	.71	.62	.41	2222 420 42403
	.027	6.0	12.0	12.5	10.0	4.0	.60	BC2256-ND	.72	.63	.42	2222 420 42703
	.03	6.0	12.0	12.5	10.0	4.0	.60	BC2258-ND	.75	.64	.43	2222 420 43003
	.043	6.0	12.0	12.5	10.0	4.0	.60	BC2266-ND	.81	.70	.47	2222 420 44303
	.051	6.0	12.0	17.5	15.0	3.5	.60	BC2282-ND	.79	.69	.46	2222 420 75103
	.056	6.0	12.0	17.5	15.0	3.5	.60	BC2283-ND	.81	.70	.47	2222 420 75603
	.062	7.0	13.5	17.5	15.0	3.5	.80	BC2284-ND	.82	.71	.47	2222 420 76203
	.068	7.0	13.5	17.5	15.0	3.5	.80	BC2285-ND	.83	.72	.48	2222 420 76803
	.075	7.0	13.5	17.5	15.0	3.5	.80	BC2286-ND	.85	.74	.49	2222 420 77503
	.082	7.0	13.5	17.5	15.0	3.5	.80	BC2287-ND	.88	.76	.51	2222 420 78203
	.091	8.5	15.0	17.5	15.0	3.5	.80	BC2288-ND	.90	.78	.52	2222 420 79103
	.10	8.5	15.0	17.5	15.0	3.5	.80	BC2276-ND	.93	.81	.54	2222 420 71004
	.11	8.5	15.0	17.5	15.0	3.5	.80	BC2277-ND	.99	.85	.57	2222 420 71104
	.12	8.5	15.0	17.5	15.0	3.5	.80	BC2278-ND	1.04	.90	.60	2222 420 71204
	.13	10.0	16.5	17.5	15.0	3.5	.80	BC2279-ND	1.10	.95	.63	2222 420 71304
	.15	10.0	16.5	17.5	15.0	3.5	.80	BC2280-ND	1.16	1.00	.67	2222 420 71504
	.16	10.0	16.5	17.5	15.0	3.5	.80	BC2281-ND	1.22	1.05	.70	2222 420 71604

AC and Pulse Double Metallized Polypropylene Film Capacitors

MMKP 383 Series

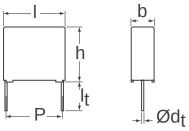

Features: • Low contact resistance • Low loss dielectric • Small dimensions for high density packaging **Applications:** • Electronic lighting e.g. Ballast • Motor control circuits • S-Correction • Where steep pulses occur e.g. SMPS (switch mode power supplies) • For flyback applications please use 1400V series • For hot asphalt encapsulation process
Specifications: • **Rated Temperature (DC):** 85°C • **Rated Temperature (AC):** 105°C • **Maximum Application Temperature:** 105°C • **Capacitance Tolerance:** ±5%

Voltage	Capacitance (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	ød$_t$		1	10	100	
250DC/ 125AC	.082	5.0	11.0	17.5	15.0	3.5	.80	BC1845-ND	.54	.46	.31	2222 383 00823
	.091	5.0	11.0	17.5	15.0	3.5	.80	BC1847-ND	.60	.52	.35	2222 383 00913
	.11	6.0	12.0	17.5	15.0	3.5	.80	BC1814-ND	.64	.55	.37	2222 383 00114
	.12	6.0	12.0	17.5	15.0	3.5	.80	BC1816-ND	.61	.52	.35	2222 383 00124
	.13	6.0	12.0	17.5	15.0	3.5	.80	BC1818-ND	.67	.58	.39	2222 383 00134
	.15	6.0	12.0	17.5	15.0	3.5	.80	BC1820-ND	.64	.56	.37	2222 383 00154
	.16	7.0	13.5	17.5	15.0	3.5	.80	BC1822-ND	.74	.64	.43	2222 383 00164
	.18	7.0	13.5	17.5	15.0	3.5	.80	BC1824-ND	.70	.61	.41	2222 383 00184
	.22	8.5	15.0	17.5	15.0	3.5	.80	BC1828-ND	.76	.66	.44	2222 383 00224
	.24	8.5	15.0	17.5	15.0	3.5	.80	BC1830-ND	.86	.74	.49	2222 383 00244
	.27	8.5	15.0	17.5	15.0	3.5	.80	BC1832-ND	.82	.70	.47	2222 383 00274
	.30	8.5	15.0	17.5	15.0	3.5	.80	BC1834-ND	.96	.83	.55	2222 383 00304
	.33	10.0	16.5	17.5	15.0	3.5	.80	BC1835-ND	.92	.80	.53	2222 383 00334
	.36	10.0	16.5	17.5	15.0	3.5	.80	BC1836-ND	1.03	.89	.59	2222 383 00364
	.39	10.0	16.5	17.5	15.0	3.5	.80	BC1837-ND	.98	.85	.57	2222 383 00394
	.43	7.0	16.5	26.0	22.5	3.5	.80	BC1838-ND	1.17	1.00	.67	2222 383 00434
	.62	8.5	18.0	26.0	22.5	3.5	.80	BC1842-ND	1.39	1.19	.80	2222 383 00624
	.75	10.0	19.5	26.0	22.5	3.5	.80	BC1844-ND	1.52	1.31	.87	2222 383 00754
	.82	10.0	19.5	26.0	22.5	3.5	.80	BC1846-ND	1.45	1.24	.83	2222 383 00824
	.91	11.0	21.0	31.0	27.5	3.5	.80	BC1848-ND	2.03	1.74	1.16	2222 383 00914
	1.3	13.0	23.0	31.0	27.5	3.5	.80	BC1819-ND	2.51	2.16	1.44	2222 383 00135
	1.6	13.0	23.0	31.0	27.5	3.5	.80	BC1823-ND	2.91	2.49	1.66	2222 383 00165
	2.2	18.0	28.0	31.0	27.5	3.5	.80	BC1829-ND	3.25	2.79	1.86	2222 383 00225
	2.4	18.0	28.0	31.0	27.5	3.5	.80	BC1831-ND	3.85	3.30	2.20	2222 383 00245
630DC/ 220AC	.03	5.0	11.0	17.5	15.0	3.5	.80	BC1861-ND	.55	.48	.32	2222 383 20303
	.033	5.0	11.0	17.5	15.0	3.5	.80	BC1863-ND	.53	.46	.31	2222 383 20333
	.036	5.0	11.0	17.5	15.0	3.5	.80	BC1865-ND	.58	.51	.34	2222 383 20363
	.039	6.0	12.0	17.5	15.0	3.5	.80	BC1867-ND	.56	.48	.32	2222 383 20393
	.043	6.0	12.0	17.5	15.0	3.5	.80	BC1869-ND	.61	.52	.35	2222 383 20433
	.047	6.0	12.0	17.5	15.0	3.5	.80	BC1871-ND	.57	.50	.33	2222 383 20473
	.051	6.0	12.0	17.5	15.0	3.5	.80	BC1873-ND	.63	.54	.36	2222 383 20513
	.056	6.0	12.0	17.5	15.0	3.5	.80	BC1875-ND	.60	.51	.34	2222 383 20563
	.062	7.0	13.5	17.5	15.0	3.5	.80	BC1877-ND	.68	.59	.39	2222 383 20623
	.068	7.0	13.5	17.5	15.0	3.5	.80	BC1879-ND	.65	.56	.37	2222 383 20683
	.075	7.0	13.5	17.5	15.0	3.5	.80	BC1881-ND	.72	.63	.42	2222 383 20753
	.082	8.5	15.0	17.5	15.0	3.5	.80	BC1883-ND	.70	.60	.40	2222 383 20823
	.091	8.5	15.0	17.5	15.0	3.5	.80	BC1885-ND	.77	.67	.45	2222 383 20913
	.10	8.5	15.0	17.5	15.0	3.5	.80	BC1849-ND	.72	.63	.42	2222 383 20104
	.11	8.5	15.0	17.5	15.0	3.5	.80	BC1851-ND	.86	.74	.49	2222 383 20114
	.12	10.0	16.5	17.5	15.0	3.5	.80	BC1852-ND	.82	.70	.47	2222 383 20124
	.13	10.0	16.5	17.5	15.0	3.5	.80	BC1853-ND	.90	.78	.52	2222 383 20134
	.15	10.0	16.5	17.5	15.0	3.5	.80	BC1854-ND	.86	.75	.50	2222 383 20154
	.16	8.5	18.0	26.0	22.5	3.5	.80	BC1855-ND	1.05	.90	.60	2222 383 20164
	.18	8.5	18.0	26.0	22.5	3.5	.80	BC1856-ND	.99	.86	.57	2222 383 20184
	.20	8.5	18.0	26.0	22.5	3.5	.80	BC1857-ND	1.12	.96	.64	2222 383 20204
	.22	8.5	18.0	26.0	22.5	3.5	.80	BC1858-ND	1.06	.92	.61	2222 383 20224
	.24	10.0	19.5	26.0	22.5	3.5	.80	BC1859-ND	1.21	1.05	.70	2222 383 20244
	.27	10.0	19.5	26.0	22.5	3.5	.80	BC1860-ND	1.16	1.00	.67	2222 383 20274
	.30	10.0	19.5	26.0	22.5	3.5	.80	BC1862-ND	1.67	1.44	.96	2222 383 20304
	.33	11.0	21.0	31.0	27.5	3.5	.80	BC1864-ND	1.58	1.36	.91	2222 383 20334
630DC/ 220AC	.36	11.0	21.0	31.0	27.5	3.5	.80	BC1866-ND	1.77	1.53	1.02	2222 383 20364
	.39	11.0	21.0	31.0	27.5	3.5	.80	BC1868-ND	1.69	1.45	.97	2222 383 20394
	.43	11.0	21.0	31.0	27.5	3.5	.80	BC1870-ND	1.98	1.70	1.14	2222 383 20434
	.47	13.0	23.0	31.0	27.5	3.5	.80	BC1872-ND	1.89	1.62	1.08	2222 383 20474
	.51	13.0	23.0	31.0	27.5	3.5	.80	BC1874-ND	2.14	1.83	1.22	2222 383 20514
	.56	13.0	23.0	31.0	27.5	3.5	.80	BC1876-ND	2.04	1.75	1.17	2222 383 20564
	.62	15.0	25.0	31.0	27.5	3.5	.80	BC1878-ND	2.40	2.06	1.37	2222 383 20624
	.68	15.0	25.0	31.0	27.5	3.5	.80	BC1880-ND	2.29	1.97	1.31	2222 383 20684
	.75	15.0	25.0	31.0	27.5	3.5	.80	BC1882-ND	2.86	2.45	1.64	2222 383 20754
	.82	18.0	28.0	31.0	27.5	3.5	.80	BC1884-ND	2.71	2.33	1.55	2222 383 20824
	.91	18.0	28.0	31.0	27.5	3.5	.80	BC1886-ND	3.19	2.73	1.82	2222 383 20914
	1.0	18.0	28.0	31.0	27.5	3.5	.80	BC1850-ND	3.03	2.61	1.74	2222 383 20105
1000DC/ 350AC	.012	5.0	11.0	17.5	15.0	3.5	.80	BC1889-ND	.65	.56	.37	2222 383 30123
	.013	5.0	11.0	17.5	15.0	3.5	.80	BC1891-ND	.70	.61	.41	2222 383 30133
	.015	5.0	11.0	17.5	15.0	3.5	.80	BC1893-ND	.67	.58	.39	2222 383 30153
	.016	5.0	11.0	17.5	15.0	3.5	.80	BC1895-ND	.74	.64	.43	2222 383 30163
	.018	6.0	12.0	17.5	15.0	3.5	.80	BC1897-ND	.70	.61	.41	2222 383 30183
	.02	6.0	12.0	17.5	15.0	3.5	.80	BC1899-ND	.78	.68	.45	2222 383 30203
	.022	6.0	12.0	17.5	15.0	3.5	.80	BC1901-ND	.75	.65	.43	2222 383 30223
	.024	6.0	12.0	17.5	15.0	3.5	.80	BC1903-ND	.84	.72	.48	2222 383 30243
	.027	7.0	13.5	17.5	15.0	3.5	.80	BC1905-ND	.80	.69	.46	2222 383 30273
	.03	7.0	13.5	17.5	15.0	3.5	.80	BC1907-ND	.90	.78	.52	2222 383 30303
	.033	7.0	13.5	17.5	15.0	3.5	.80	BC1909-ND	.86	.75	.50	2222 383 30333
	.036	8.5	15.0	17.5	15.0	3.5	.80	BC1911-ND	.95	.81	.54	2222 383 30363
	.039	8.5	15.0	17.5	15.0	3.5	.80	BC1913-ND	.90	.78	.52	2222 383 30393
	.043	8.5	15.0	17.5	15.0	3.5	.80	BC1915-ND	1.02	.88	.59	2222 383 30433
	.047	8.5	15.0	17.5	15.0	3.5	.80	BC1917-ND	.98	.84	.56	2222 383 30473
	.051	10.0	16.5	17.5	15.0	3.5	.80	BC1919-ND	1.09	.94	.63	2222 383 30513
	.056	10.0	16.5	17.5	15.0	3.5	.80	BC1920-ND	1.03	.89	.59	2222 383 30563
	.062	10.0	16.5	17.5	15.0	3.5	.80	BC1921-ND	1.20	1.03	.69	2222 383 30623
	.068	7.0	16.5	26.0	22.5	3.5	.80	BC1922-ND	1.14	.98	.66	2222 383 30683
	.075	8.5	18.0	26.0	22.5	3.5	.80	BC1923-ND	1.33	1.14	.76	2222 383 30753
	.082	8.5	18.0	26.0	22.5	3.5	.80	BC1924-ND	1.27	1.09	.73	2222 383 30823
	.091	8.5	18.0	26.0	22.5	3.5	.80	BC1925-ND	1.49	1.29	.86	2222 383 30913
	.10	10.0	19.5	26.0	22.5	3.5	.80	BC1887-ND	1.42	1.22	.82	2222 383 30104
	.11	10.0	19.5	26.0	22.5	3.5	.80	BC1888-ND	1.79	1.54	1.03	2222 383 30114
	.12	10.0	19.5	26.0	22.5	3.5	.80	BC1890-ND	1.70	1.46	.98	2222 383 30124
	.13	10.0	19.5	26.0	22.5	3.5	.80	BC1892-ND	2.02	1.73	1.16	2222 383 30134
	.15	11.0	21.0	31.0	27.5	3.5	.80	BC1894-ND	1.93	1.66	1.11	2222 383 30154
	.16	11.0	21.0	31.0	27.5	3.5	.80	BC1896-ND	2.24	1.92	1.28	2222 383 30164
	.18	11.0	21.0	31.0	27.5	3.5	.80	BC1898-ND	2.15	1.85	1.23	2222 383 30184
	.20	13.0	23.0	31.0	27.5	3.5	.80	BC1900-ND	2.46	2.12	1.41	2222 383 30204
	.22	13.0	23.0	31.0	27.5	3.5	.80	BC1902-ND	2.37	2.04	1.36	2222 383 30224
	.24	13.0	23.0	31.0	27.5	3.5	.80	BC1904-ND	2.75	2.36	1.57	2222 383 30244
	.27	15.0	25.0	31.0	27.5	3.5	.80	BC1906-ND	2.63	2.25	1.50	2222 383 30274
	.30	15.0	25.0	31.0	27.5	3.5	.80	BC1908-ND	3.12	2.68	1.79	2222 383 30304
	.33	15.0	25.0	31.0	27.5	3.5	.80	BC1910-ND	2.98	2.55	1.70	2222 383 30334
	.36	18.0	28.0	31.0	27.5	3.5	.80	BC1912-ND	3.38	2.91	1.94	2222 383 30364
	.39	18.0	28.0	31.0	27.5	3.5	.80	BC1914-ND	3.22	2.77	1.85	2222 383 30394
	.43	18.0	28.0	31.0	27.5	3.5	.80	BC1916-ND	3.76	3.23	2.15	2222 383 30434
	.47	18.0	28.0	31.0	27.5	3.5	.80	BC1918-ND	3.57	3.06	2.04	2222 383 30474
1400DC/ 500AC	.0024	5.0	11.0	17.5	15.0	3.5	.80	BC1940-ND	.51	.45	.30	2222 383 40242
	.003	5.0	11.0	17.5	15.0	3.5	.80	BC1944-ND	.54	.46	.31	2222 383 40302
	.0033	5.0	11.0	17.5	15.0	3.5	.80	BC1946-ND	.51	.44	.30	2222 383 40332
	.0036	5.0	11.0	17.5	15.0	3.5	.80	BC1948-ND	.55	.48	.32	2222 383 40362

(Continued)

Voltage	Capacitance (µF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	$ød_t$		1	10	100	
1400DC/ 500AC	.0039	5.0	11.0	17.5	15.0	3.5	.80	BC1950-ND	.53	.46	.31	2222 383 40392
	.0043	6.0	12.0	17.5	15.0	3.5	.80	BC1952-ND	.57	.50	.33	2222 383 40432
	.0051	6.0	12.0	17.5	15.0	3.5	.80	BC1956-ND	.61	.52	.35	2222 383 40512
	.0062	7.0	13.5	17.5	15.0	3.5	.80	BC1960-ND	.64	.56	.37	2222 383 40622
	.0082	7.0	13.5	17.5	15.0	3.5	.80	BC1966-ND	.64	.56	.37	2222 383 40822
	.0091	8.5	15.0	17.5	15.0	3.5	.80	BC1968-ND	.72	.62	.42	2222 383 40912
	.011	8.5	15.0	17.5	15.0	3.5	.80	BC1928-ND	.77	.67	.45	2222 383 40113
	.012	8.5	15.0	17.5	15.0	3.5	.80	BC1930-ND	.74	.64	.43	2222 383 40123
	.013	10.0	16.5	17.5	15.0	3.5	.80	BC1932-ND	.84	.72	.48	2222 383 40133
	.015	10.0	16.5	17.5	15.0	3.5	.80	BC1934-ND	.80	.69	.46	2222 383 40153
	.016	10.0	16.5	17.5	15.0	3.5	.80	BC1935-ND	.92	.80	.53	2222 383 40163
	.018	7.0	16.5	26.0	22.5	3.5	.80	BC1936-ND	.88	.76	.51	2222 383 40183
	.02	7.0	16.5	26.0	22.5	3.5	.80	BC1937-ND	1.00	.86	.58	2222 383 40203
	.022	8.5	18.0	26.0	22.5	3.5	.80	BC1939-ND	.95	.82	.55	2222 383 40223
	.024	8.5	18.0	26.0	22.5	3.5	.80	BC1941-ND	1.09	.94	.63	2222 383 40243
	.027	8.5	18.0	26.0	22.5	3.5	.80	BC1943-ND	1.03	.89	.59	2222 383 40273
	.03	10.0	19.5	26.0	22.5	3.5	.80	BC1945-ND	1.21	1.04	.69	2222 383 40303
	.033	10.0	19.5	26.0	22.5	3.5	.80	BC1947-ND	1.15	.99	.66	2222 383 40333
	.036	10.0	19.5	26.0	22.5	3.5	.80	BC1949-ND	1.34	1.16	.77	2222 383 40363
	.039	10.0	19.5	26.0	22.5	3.5	.80	BC1951-ND	1.28	1.10	.74	2222 383 40393
	.043	11.0	21.0	31.0	27.5	3.5	.80	BC1953-ND	1.60	1.37	.92	2222 383 40433
	.047	11.0	21.0	31.0	27.5	3.5	.80	BC1955-ND	1.52	1.31	.87	2222 383 40473
	.051	11.0	21.0	31.0	27.5	3.5	.80	BC1957-ND	1.79	1.54	1.03	2222 383 40513
	.056	11.0	21.0	31.0	27.5	3.5	.80	BC1959-ND	1.70	1.46	.98	2222 383 40563
	.062	13.0	23.0	31.0	27.5	3.5	.80	BC1961-ND	2.00	1.71	1.14	2222 383 40623
	.068	13.0	23.0	31.0	27.5	3.5	.80	BC1963-ND	1.89	1.63	1.09	2222 383 40683
	.075	13.0	23.0	31.0	27.5	3.5	.80	BC1965-ND	2.25	1.94	1.29	2222 383 40753
	.082	15.0	25.0	31.0	27.5	3.5	.80	BC1967-ND	2.15	1.85	1.23	2222 383 40823
	.091	15.0	25.0	31.0	27.5	3.5	.80	BC1969-ND	2.49	2.14	1.43	2222 383 40913
	.11	18.0	28.0	31.0	27.5	3.5	.80	BC1929-ND	2.79	2.39	1.60	2222 383 40114
	.13	18.0	28.0	31.0	27.5	3.5	.80	BC1933-ND	2.81	2.42	1.61	2222 383 40134
1600DC/ 550AC	.0033	5.0	11.0	17.5	15.0	3.5	.80	BC1987-ND	.54	.47	.31	2222 383 50332
	.0036	5.0	11.0	17.5	15.0	3.5	.80	BC1989-ND	.58	.51	.34	2222 383 50362
	.0039	5.0	11.0	17.5	15.0	3.5	.80	BC1991-ND	.56	.48	.32	2222 383 50392
	.0043	6.0	12.0	17.5	15.0	3.5	.80	BC1993-ND	.61	.53	.35	2222 383 50432
	.0047	6.0	12.0	17.5	15.0	3.5	.80	BC1995-ND	.58	.51	.34	2222 383 50472
	.0051	6.0	12.0	17.5	15.0	3.5	.80	BC1997-ND	.64	.56	.37	2222 383 50512
	.0056	6.0	12.0	17.5	15.0	3.5	.80	BC1999-ND	.61	.53	.35	2222 383 50562
	.0062	7.0	13.5	17.5	15.0	3.5	.80	BC2001-ND	.67	.58	.39	2222 383 50622
	.0068	7.0	13.5	17.5	15.0	3.5	.80	BC2003-ND	.64	.56	.37	2222 383 50682
	.0075	7.0	13.5	17.5	15.0	3.5	.80	BC2005-ND	.72	.62	.42	2222 383 50752
	.0082	8.5	15.0	17.5	15.0	3.5	.80	BC2007-ND	.68	.59	.39	2222 383 50822
	.0091	8.5	15.0	17.5	15.0	3.5	.80	BC2009-ND	.75	.65	.43	2222 383 50912
	.01	8.5	15.0	17.5	15.0	3.5	.80	BC1970-ND	.72	.62	.42	2222 383 50103
	.011	8.5	15.0	17.5	15.0	3.5	.80	BC1972-ND	.82	.70	.47	2222 383 50113
	.012	10.0	16.5	17.5	15.0	3.5	.80	BC1974-ND	.77	.67	.45	2222 383 50123
	.013	10.0	16.5	17.5	15.0	3.5	.80	BC1976-ND	.89	.76	.51	2222 383 50133
	.015	10.0	16.5	17.5	15.0	3.5	.80	BC1978-ND	.84	.72	.48	2222 383 50153
	.016	7.0	16.5	26.0	22.5	3.5	.80	BC1980-ND	.98	.85	.57	2222 383 50163
	.018	7.0	16.5	26.0	22.5	3.5	.80	BC1981-ND	.93	.80	.53	2222 383 50183
1600DC/ 550AC	.02	7.0	16.5	26.0	22.5	3.5	.80	BC1982-ND	1.06	.91	.61	2222 383 50203
	.022	8.5	18.0	26.0	22.5	3.5	.80	BC1983-ND	1.00	.86	.58	2222 383 50223
	.024	8.5	18.0	26.0	22.5	3.5	.80	BC1984-ND	1.14	.98	.66	2222 383 50243
	.027	8.5	18.0	26.0	22.5	3.5	.80	BC1985-ND	1.09	.94	.63	2222 383 50273
	.03	8.5	18.0	26.0	22.5	3.5	.80	BC1986-ND	1.27	1.10	.73	2222 383 50303
	.033	10.0	19.5	26.0	22.5	3.5	.80	BC1988-ND	1.21	1.04	.69	2222 383 50333
	.036	10.0	19.5	26.0	22.5	3.5	.80	BC1990-ND	1.42	1.22	.82	2222 383 50363
	.039	10.0	19.5	26.0	22.5	3.5	.80	BC1992-ND	1.35	1.16	.78	2222 383 50393
	.043	11.0	21.0	31.0	27.5	3.5	.80	BC1994-ND	1.83	1.57	1.05	2222 383 50433
	.047	11.0	21.0	31.0	27.5	3.5	.80	BC1996-ND	1.74	1.50	1.00	2222 383 50473
	.051	11.0	21.0	31.0	27.5	3.5	.80	BC1998-ND	1.96	1.68	1.12	2222 383 50513
	.056	11.0	21.0	31.0	27.5	3.5	.80	BC2000-ND	1.86	1.60	1.07	2222 383 50563
	.062	13.0	23.0	31.0	27.5	3.5	.80	BC2002-ND	2.18	1.87	1.25	2222 383 50623
	.068	13.0	23.0	31.0	27.5	3.5	.80	BC2004-ND	2.08	1.79	1.19	2222 383 50683
	.075	13.0	23.0	31.0	27.5	3.5	.80	BC2006-ND	2.53	2.17	1.45	2222 383 50753
	.082	15.0	25.0	31.0	27.5	3.5	.80	BC2008-ND	2.40	2.06	1.37	2222 383 50823
	.091	15.0	25.0	31.0	27.5	3.5	.80	BC2010-ND	2.69	2.31	1.54	2222 383 50913
	.10	15.0	25.0	31.0	27.5	3.5	.80	BC1971-ND	2.56	2.20	1.47	2222 383 50104
	.11	18.0	28.0	31.0	27.5	3.5	.80	BC1973-ND	3.13	2.69	1.79	2222 383 50114
	.12	18.0	28.0	31.0	27.5	3.5	.80	BC1975-ND	3.00	2.58	1.72	2222 383 50124
	.13	18.0	28.0	31.0	27.5	3.5	.80	BC1977-ND	3.51	3.01	2.01	2222 383 50134
	.15	18.0	28.0	31.0	27.5	3.5	.80	BC1979-ND	3.35	2.88	1.92	2222 383 50154
2500DC/ 900AC	.0011	6.0	15.5	26.0	22.5	3.5	.80	BC2013-ND	.86	.74	.49	2222 383 70112
	.0012	6.0	15.5	26.0	22.5	3.5	.80	BC2015-ND	.82	.71	.47	2222 383 70122
	.0013	6.0	15.5	26.0	22.5	3.5	.80	BC2017-ND	.86	.75	.50	2222 383 70132
	.0015	6.0	15.5	26.0	22.5	3.5	.80	BC2019-ND	.82	.71	.47	2222 383 70152
	.0016	6.0	15.5	26.0	22.5	3.5	.80	BC2021-ND	.87	.75	.50	2222 383 70162
	.0018	6.0	15.5	26.0	22.5	3.5	.80	BC2023-ND	.83	.72	.48	2222 383 70182
	.0024	6.0	15.5	26.0	22.5	3.5	.80	BC2029-ND	.88	.76	.51	2222 383 70242
	.003	6.0	15.5	26.0	22.5	3.5	.80	BC2033-ND	.89	.76	.51	2222 383 70302
	.0033	6.0	15.5	26.0	22.5	3.5	.80	BC2035-ND	.85	.73	.49	2222 383 70332
	.0047	6.0	15.5	26.0	22.5	3.5	.80	BC2043-ND	.88	.76	.51	2222 383 70472
	.0051	6.0	15.5	26.0	22.5	3.5	.80	BC2045-ND	.95	.81	.54	2222 383 70512
	.0062	7.0	16.5	26.0	22.5	3.5	.80	BC2049-ND	.98	.84	.56	2222 383 70622
	.0068	7.0	16.5	26.0	22.5	3.5	.80	BC2050-ND	.93	.80	.53	2222 383 70682
	.0082	8.5	18.0	26.0	22.5	3.5	.80	BC2052-ND	.99	.86	.57	2222 383 70822
	.012	10.0	19.5	26.0	22.5	3.5	.80	BC2016-ND	1.12	.96	.64	2222 383 70123
	.013	10.0	19.5	26.0	22.5	3.5	.80	BC2018-ND	1.30	1.12	.75	2222 383 70133
	.015	10.0	19.5	26.0	22.5	3.5	.80	BC2020-ND	1.24	1.07	.71	2222 383 70153
	.016	9.0	19.0	31.0	27.5	3.5	.80	BC2022-ND	1.61	1.38	.92	2222 383 70163
	.018	11.0	21.0	31.0	27.5	3.5	.80	BC2024-ND	1.53	1.32	.88	2222 383 70183
	.02	11.0	21.0	31.0	27.5	3.5	.80	BC2026-ND	1.77	1.52	1.01	2222 383 70203
	.027	13.0	23.0	31.0	27.5	3.5	.80	BC2032-ND	1.90	1.64	1.09	2222 383 70273
	.03	13.0	23.0	31.0	27.5	3.5	.80	BC2034-ND	2.17	1.86	1.24	2222 383 70303
	.033	13.0	23.0	31.0	27.5	3.5	.80	BC2036-ND	2.07	1.77	1.18	2222 383 70333
	.036	15.0	25.0	31.0	27.5	3.5	.80	BC2038-ND	2.43	2.09	1.39	2222 383 70363
	.039	15.0	25.0	31.0	27.5	3.5	.80	BC2040-ND	2.31	1.98	1.32	2222 383 70393
	.051	18.0	28.0	31.0	27.5	3.5	.80	BC2046-ND	3.05	2.61	1.74	2222 383 70513

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CDE CORNELL DUBILIER

Axial Leaded Power Film Capacitors

RoHS COMPLIANT

Type 940C round, axial film capacitors use polypropylene film and dual metallized electrodes for both self healing properties and high peak current carrying capability (dV/dt). This series features low ESR characteristics, excellent high frequency and high voltage capabilities.

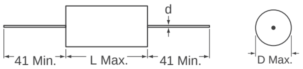

Specifications: • Capacitance Tolerance: ±10% • Operating Temperature Range: -55°C ~ 105°C

Rated Volt. (DC)	Cap. (µF)	Dimensions (mm)			Digi-Key Part No.	Price Each			Cornell Dubilier Part No.
		D	L	d		1	10	100	
600	0.33	13.5	34	1.0	338-1137-ND	2.68	2.31	1.92	940C6P33K-F
	1.0	21	34	1.0	338-1138-ND	4.51	3.87	3.22	940C6W1K-F
	1.5	25	34	1.2	338-1139-ND	5.66	4.86	4.05	940C6W1P5K-F
	2.0	23.5	46	1.2	338-1140-ND	6.64	5.69	4.74	940C6W2K-F
	3.3	27	54	1.2	338-1141-ND	9.40	8.07	6.72	940C6W3P3K-F
	4.7	31.5	54	1.2	338-1142-ND	12.76	10.95	9.12	940C6W4P7K-F
850	0.15	13	34	1.0	338-1143-ND	2.85	2.45	2.04	940C8P15K-F
	0.47	21	34	1.0	338-1144-ND	5.32	4.56	3.80	940C8P47K-F
	0.68	24.5	34	1.2	338-1145-ND	6.98	5.98	4.99	940C8P68K-F
	1.0	22.5	46	1.2	338-1146-ND	7.92	6.79	5.66	940C8W1K-F
	1.5	27	46	1.2	338-1147-ND	10.68	9.16	7.63	940C8W1P5K-F
	2.0	30.5	46	1.2	338-1148-ND	13.44	11.53	9.61	940C8W2K-F
	2.2	32	46	1.2	338-1149-ND	14.85	12.73	10.61	940C8W2P2K-F
	2.5	34	46	1.2	338-1150-ND	16.46	14.12	11.76	940C8W2P5K-F
1000	0.22	17.5	34	1.0	338-1151-ND	3.62	3.11	2.59	940C10P22K-F
	0.33	20.5	34	1.0	338-1152-ND	4.72	4.05	3.38	940C10P33K-F
	0.47	24	34	1.2	338-1153-ND	6.09	5.22	4.35	940C10P47K-F
	0.68	28	34	1.2	338-1154-ND	7.70	6.61	5.51	940C10P68K-F
	1.0	26	46	1.2	338-1155-ND	8.81	7.56	6.30	940C10W1K-F
	1.5	31	46	1.2	338-1156-ND	12.21	10.47	8.73	940C10W1P5K-F
	2.0	35.5	46	1.2	338-1157-ND	15.45	13.24	11.04	940C10W2K-F
1200	0.10	15.5	34	1.0	338-1158-ND	2.98	2.56	2.13	940C12P1K-F
	0.15	18.5	34	1.0	338-1159-ND	3.10	2.67	2.22	940C12P15K-F
	0.22	21.5	34	1.0	338-1160-ND	4.55	3.91	3.26	940C12P22K-F
	0.33	20	46	1.0	338-1161-ND	5.07	4.35	3.62	940C12P33K-F
	0.47	23	46	1.2	338-1162-ND	6.55	5.62	4.68	940C12P47K-F
1200	1.0	33	46	1.2	338-1163-ND	11.53	9.89	8.24	940C12W1K-F
	1.5	35	54	1.2	338-1164-ND	15.14	12.99	10.82	940C12W1P5K-F
1600	0.10	18	34	1.0	338-1165-ND	3.66	3.14	2.62	940C16P1K-F
	0.15	21.5	34	1.0	338-1166-ND	4.42	3.80	3.16	940C16P15K-F
	0.22	25.5	34	1.2	338-1167-ND	5.70	4.89	4.08	940C16P22K-F
	0.33	23.5	46	1.2	338-1168-ND	6.42	5.51	4.59	940C16P33K-F
	0.47	27.5	46	1.2	338-1169-ND	8.17	7.01	5.84	940C16P47K-F
	1.0	39	46	1.2	338-1170-ND	14.93	12.81	10.67	940C12W1K-F
	1.5	42	54	1.2	338-1171-ND	19.70	16.89	14.07	940C12W1P5K-F
2000	0.033	13.5	34	1.0	338-1172-ND	2.51	2.16	1.80	940C20S33K-F
	0.047	15	34	1.0	338-1173-ND	2.81	2.41	2.01	940C20S47K-F
	0.068	17.5	34	1.0	338-1174-ND	3.19	2.74	2.28	940C20S68K-F
	0.10	21	34	1.0	338-1175-ND	4.04	3.47	2.89	940C20P1K-F
	0.15	19.5	46	1.0	338-1176-ND	4.47	3.84	3.20	940C20P15K-F
	0.22	22	46	1.0	338-1177-ND	5.53	4.74	3.95	940C20P22K-F
	0.33	27	46	1.2	338-1178-ND	7.49	6.42	5.35	940C20P33K-F
	0.47	32	46	1.2	338-1179-ND	9.91	8.50	7.08	940C20P47K-F
	0.56	31	54	1.2	338-1180-ND	10.77	9.24	7.70	940C20P56K-F
	0.68	34	54	1.2	338-1181-ND	12.51	10.72	8.94	940C20P68K-F
	1.0	41	54	1.2	338-1182-ND	17.15	14.70	12.25	940C20W1K-F
3000	0.01	11.5	34	1.0	338-1183-ND	2.26	1.94	1.62	940C30S1K-F
	0.015	13.5	34	1.0	338-1184-ND	2.43	2.08	1.74	940C30S15K-F
	0.047	16.5	46	1.0	338-1185-ND	3.28	2.81	2.34	940C30S47K-F
	0.068	19	46	1.0	338-1186-ND	4.13	3.54	2.95	940C30S68K-F
	0.10	22.5	46	1.2	338-1187-ND	5.10	4.38	3.65	940C30P1K-F
	0.15	27	46	1.2	338-1188-ND	6.59	5.66	4.71	940C30P15K-F

Panasonic AC Film Capacitors

Stack Type: Panasonic's "stack type" construction offers significant reduction in case size (compared to oil-filled can type) with a built-in mounting foot.

Features: • Compact size compared to oil-filled type capacitors • 0.187 inch (4.75mm) terminals standard (0.250 inch [6.35mm] available) • 180, 200, 230 are standard voltages • U.L. 810 (File # E76560) and C.S.A listed (CSA-C22.2 No. 0-M91 File # LR99617) • JIS standard is available. (JIS C 4908) • Primary applications: refrigeration, motor run, lighting, etc. • Flame retardant plastic case is rated 94 V-0

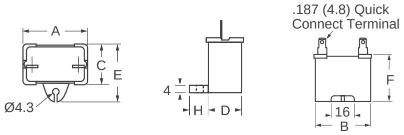

Wound Type: Panasonic's "wound type" construction brings dry film technology to higher voltage and microfarad applications, not available from our "stack type" construction.

Features: • Replacement for typical oil-filled aluminum or plastic can capacitor • Compact size —ideal where space is a premium • Built-in mounting bracket eliminates need for mounting strap • Meets U.L. 810 (File #E76560) • Primary applications: motor run, lighting, etc. • Terminals: 0.187 inch (4.75mm)

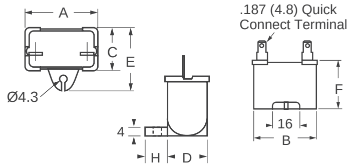

Oil Wound Type – ***Metallized polypropylene film:***

Features: • Self protection function built-in • Low-Loss and inherent temperature rise • Small and compact

Specifications: • Meets U.L. 810 (File #E76560) • Capacitance Tolerance: -5 ~ 10% • Temperature Range: -25°C ~ 70°C • Insulation Resistance: More than 1000MΩ • Dissipation Factor: Less than 0.3% • Withstand Voltage: Between Terminal: 1.75 x rated voltage for 60 seconds Terminal to Case: 2 x rated voltage for 60 seconds

Applications: • Motor run applications (Air Conditioner/ Refrigerator) • Motor start applications

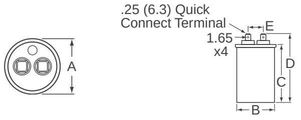

Voltage VAC	Cap. µF	Dimensions A	B	C	D	E	F	H	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
Stack Type - SQ Case														
180	7.5	39.5	38.0	17.5	16.0	28.0	30.5	11.0	P9400-ND	3.40	27.20	231.20	1020.00	JS18755-AA
	10	39.5	38.0	22.0	20.5	32.5	30.5	11.0	P9401-ND	4.08	32.60	277.10	1222.50	JS18106-AA
	12	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9402-ND	4.55	36.40	309.40	1365.00	JS18126-AA
	15	39.5	38.0	26.7	25.2	37.0	32.0	11.0	P9403-ND	5.58	44.60	379.10	1672.50	JS18156-AA
	20	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9404-ND	6.50	52.00	442.00	1950.00	JS18206-AA
210	8	39.5	38.0	22.0	20.5	32.5	30.5	11.0	P9658-ND	3.83	30.60	260.10	1147.50	JS211805-AA
	10	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9405-ND	4.20	33.60	285.60	1260.00	JS21106-AA
	12	39.5	38.0	26.7	25.2	37.0	32.0	11.0	P9406-ND	4.70	37.60	319.60	1410.00	JS21126-AA
	15	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9407-ND	5.65	45.20	384.20	1695.00	JS21156-AA
230	10	39.5	38.0	22.0	20.5	34.2	32.0	13.0	P9408-ND	4.93	39.40	334.90	1477.50	JS23106-AA
	12	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9409-ND	5.43	43.40	368.90	1627.50	JS23126-AA
	15	39.5	38.0	26.7	25.2	37.0	41.0	11.0	P9410-ND	7.03	56.20	477.70	2107.50	JS23156-AA
Wound Type - Q Case														
250	10	49.7	48.3	24.0	22.5	34.5	34.5	11.5	P9411-ND	6.75	54.00	459.00	2025.00	JS251106-BA
	12	50.0	48.5	26.7	25.3	37.5	38.0	11.5	P9412-ND	7.68	61.40	521.90	2302.50	JS251126-BA
	15	50.0	48.5	30.5	28.8	41.0	36.0	11.5	P9413-ND	9.08	72.60	617.10	2722.50	JS251156-BA
440	4	49.7	48.3	24.0	22.5	34.5	34.5	11.5	P9659-ND	7.85	62.80	533.80	2355.00	DS441405-BA
	5	50.0	48.5	26.7	25.3	37.5	38.0	11.5	P9660-ND	8.38	67.00	569.50	2512.50	DS441505-BA
	6	50.0	48.5	30.5	28.8	41.0	41.5	11.5	P9661-ND	9.58	76.60	651.10	2872.50	DS441605-BA
Oil Wound Type														
370	15	43.0	41.0	80.0	93.0	16.0	—	—	P9662-ND	4.38	35.00	297.50	1312.50	DS371156-CA
	20	43.0	41.0	90.0	103.0	16.0	—	—	P9663-ND	4.93	39.40	334.90	1477.50	DS371206-CA
	25	43.0	41.0	100.0	113.0	16.0	—	—	P9664-ND	5.55	44.40	377.40	1665.00	DS371256-CA
	30	43.0	41.0	110.0	123.0	16.0	—	—	P9665-ND	6.08	48.60	413.10	1822.50	DS371306-CA
	35	48.0	45.0	100.0	113.0	18.0	—	—	P9666-ND	6.70	53.60	455.60	2010.00	DS371356-CA
	40	48.0	45.0	110.0	123.0	18.0	—	—	P9667-ND	7.28	58.20	494.70	2182.50	DS371406-CA
	45	53.0	50.5	100.0	113.0	18.0	—	—	P9668-ND	7.98	63.80	542.30	2392.50	DS371456-CA
	50	53.0	50.5	110.0	123.0	18.0	—	—	P9669-ND	8.58	68.60	583.10	2572.50	DS371506-CA

BC COMPONENTS Axial Ceramic Capacitors

Mechanical Parameters:

Terminal Strength: 2.2 Kg (5 lbs.) Minimum pull to destruction, per Method B5 of RS-198-CII, Test Condition A.

Lead Materials: #24 AWG (.020" ±0.001") Tinned, Copper Clad Steel. 30% Conductivity. Temper: Soft; Tensile Strength: 65000 PSI Maximum

Body: Conformally coated Epoxy.

Electrical Parameters:

Capacitance: Measured @ 1Mhz @ 1.0 ±0.2 VRMS @ 25°C for C0G types with C ≤1000pF. Measured @ 1Khz @ 1.0 ±0.2 VRMS @ 25°C for C0G types with C >1000pF. Measured @ 1Khz @ 1.0 VRMS ±.2 VRMS @ 25°C for X7R types. Measure @ 1Khz @ .0.5 VRMS ±.1 VRMS @ 25°C for Z5U types.

Dissipation Factor: .1% Maximum for C0G types, 2.5% Maximum for X7R types and 4.0% for Z5U types; measurement conditions are the same as for capacitance measurement.

Dielectric Strength: Parts are subjected for up to 5 seconds @ 25°C to 250% of Rated Voltage and will exhibit no evidence of breakdown.

Insulation Resistance: When measured @ 25°C and Rated Voltage, the following Minimum Values will be met: 100KMΩ or 1000MΩ x µF (whichever is less) for C0G and X7R types, 10KMΩ or 1000MΩ x µF (whichever is less) for Z5U types.

Body Insulation: 500VDC Minimum, in accordance with RS-198-CII.

Operating Temperature Range: -55°C ~ 125°C for C0G, -55°C ~ 125°C for X7R, -55°C ~ 85°C for Z5U

Packaging: Mono-Axial parts are supplied in tape and reel and form per EIA RS-296.

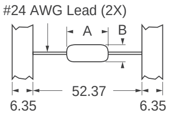

Taped and Reeled per EIA RS-296E

Size Code	A	B
15	3.81mm Max	2.54mm Max
20	5.08mm Max	3.05mm Max

Type	Voltage	Capacitance	Cap. Tol.(%)	Size Code	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape and Reel Size	Pricing	BC Components Part No.
COG	100V	10pf	±5	15	1011PHCT-ND	1.17	8.45	58.50	1011PHTR-ND	7,000	39.00/M	A100J15C0GH5TAA
		15pf	±5	15	1012PHCT-ND	1.17	8.45	58.50	1012PHTR-ND	7,000	39.00/M	A150J15C0GH5TAA
		18pf	±5	15	1013PHCT-ND	1.17	8.45	58.50	1013PHTR-ND	7,000	39.00/M	A180J15C0GH5TAA
		22pf	±5	15	1014PHCT-ND	1.17	8.45	58.50	1014PHTR-ND	7,000	39.00/M	A220J15C0GH5TAA
		27pf	±5	15	1015PHCT-ND	1.17	8.45	58.50	1015PHTR-ND	7,000	39.00/M	A270J15C0GH5TAA
		33pf	±5	15	1016PHCT-ND	1.17	8.45	58.50	1016PHTR-ND	7,000	39.00/M	A330J15C0GH5TAA
		47pf	±5	15	1017PHCT-ND	1.17	8.45	58.50	1017PHTR-ND	7,000	39.00/M	A470J15C0GH5TAA
		68pf	±5	15	1018PHCT-ND	1.17	8.45	58.50	1018PHTR-ND	7,000	39.00/M	A680J15C0GH5TAA
		82pf	±5	15	1019PHCT-ND	1.17	8.45	58.50	1019PHTR-ND	7,000	39.00/M	A820J15C0GH5TAA
	50V	100pf	±5	15	1001PHCT-ND	.75	5.43	37.58	1001PHTR-ND	7,000	25.00/M	A101J15C0GF5TAA
		180pf	±5	15	1003PHCT-ND	.96	6.92	47.93	1003PHTR-ND	7,000	32.00/M	A181J15C0GF5TAA
		220pf	±5	15	1004PHCT-ND	.96	6.92	47.93	1004PHTR-ND	7,000	32.00/M	A221J15C0GF5TAA
		330pf	±5	15	1005PHCT-ND	1.17	8.45	58.50	1005PHTR-ND	7,000	39.00/M	A331J15C0GF5TAA
		390pf	±5	15	1006PHCT-ND	1.17	8.45	58.50	—	—	—	A391J15C0GF5TAA
		470pf	±5	15	1007PHCT-ND	1.17	8.45	58.50	1007PHTR-ND	7,000	39.00/M	A471J15C0GF5TAA
		560pf	±5	15	1008PHCT-ND	1.41	10.21	70.65	1008PHTR-ND	7,000	47.00/M	A561J15C0GF5TAA
		680pf	±5	15	1009PHCT-ND	1.41	10.21	70.65	1009PHTR-ND	7,000	47.00/M	A681J15C0GF5TAA
		1000pf	±5	15	1010PHCT-ND	1.32	9.56	66.15	1010PHTR-ND	7,000	44.00/M	A102J15C0GF5TAA
X7R	100V	220pf	±10	15	1110PHCT-ND	.78	5.66	39.15	—	—	—	A221K15X7RH5TAA
		270pf	±10	15	1111PHCT-ND	.78	5.66	39.15	1111PHTR-ND	7,000	26.00/M	A271K15X7RH5TAA
		330pf	±10	15	1112PHCT-ND	.78	5.66	39.15	1112PHTR-ND	7,000	26.00/M	A331K15X7RH5TAA
		470pf	±10	15	1113PHCT-ND	.78	5.66	39.15	1113PHTR-ND	7,000	26.00/M	A471K15X7RH5TAA
		680pf	±10	15	1114PHCT-ND	.78	5.66	39.15	1114PHTR-ND	7,000	26.00/M	A681K15X7RH5TAA
		820pf	±10	15	1115PHCT-ND	.78	5.66	39.15	1115PHTR-ND	7,000	26.00/M	A821K15X7RH5TAA
		.001µf	±10	15	1116PHCT-ND	.77	5.56	38.48	1116PHTR-ND	7,000	26.00/M	A102K15X7RH5TAA
		.0012µf	±10	15	1117PHCT-ND	.82	5.92	40.95	1117PHTR-ND	7,000	27.00/M	A122K15X7RH5TAA
		.0015µf	±10	15	1118PHCT-ND	.82	5.92	40.95	1118PHTR-ND	7,000	27.00/M	A152K15X7RH5TAA
		.0022µf	±10	15	1119PHCT-ND	.82	5.92	40.95	1119PHTR-ND	7,000	27.00/M	A222K15X7RH5TAA
	50V	.0033µf	±10	15	1101PHCT-ND	.72	5.20	36.00	1101PHTR-ND	7,000	24.00/M	A332K15X7RF5TAA
		.0047µf	±10	15	1102PHCT-ND	.72	5.20	36.00	1102PHTR-ND	7,000	24.00/M	A472K15X7RF5TAA
		.01µf	±10	15	1103PHCT-ND	.68	4.94	34.20	1103PHTR-ND	7,000	23.00/M	A103K15X7RF5TAA
		.015µf	±10	15	1104PHCT-ND	.80	5.79	40.05	—	—	—	A153K15X7RF5TAA
		.022µf	±10	15	1105PHCT-ND	.78	5.62	38.93	1105PHTR-ND	7,000	26.00/M	A223K15X7RF5TAA
		.033µf	±10	15	1106PHCT-ND	.83	6.01	41.63	1106PHTR-ND	7,000	28.00/M	A333K15X7RF5TAA
		.047µf	±10	15	1107PHCT-ND	.85	6.11	42.30	1107PHTR-ND	7,000	28.00/M	A473K15X7RF5TAA
		.056µf	±10	15	1108PHCT-ND	1.21	8.74	60.53	—	—	—	A563K15X7RF5TAA
		.1µf	±10	15	1109PHCT-ND	1.22	8.78	60.75	1109PHTR-ND	7,000	40.50/M	A104K15X7RF5TAA
Z5U	50V	.022µf	±20	15	1207PHCT-ND	1.53	11.05	76.50	—	—	—	A223M15Z5UF5TAA
		.033µf	±20	15	1208PHCT-ND	1.38	9.95	68.85	—	—	—	A333M15Z5UF5TAA

Ceramic Disc Capacitors for Safety Regulations – Type NS-A

(IEC384-14 2nd Ed. Sub-Class Y1/X1)

Kinked Lead

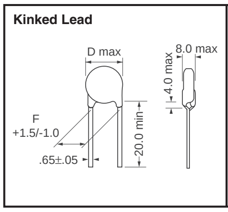

Straight Lead

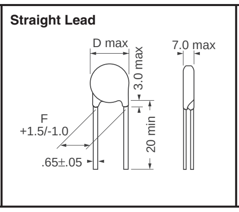

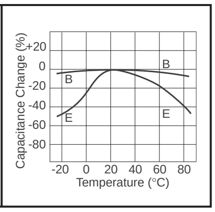

Class II Equipment. Type NS-A is recognized by UL and CSA (UL1414/250VAC and CSA C22.2 No. 1).

SPECIFICATIONS: • **Operating Temperature Range:** -25°C ~ 85°C • **Rated Voltage:**

Applicable Standards	Rated Voltage
UL	250 VAC
CSA	125 VAC
IEC 384-14 2nd Ed. (EN 132 400) Sub-Class Y1	250 VAC
SEV 1016 (3300 to 4700 pF)	250 VAC
BSI (BS415: 1990), VDE 560-2, SEV1016 (100 to 2200 pF)	400 VAC

- **Dielectric Withstanding Voltage:** 4000VAC (50/60Hz) for 1 minute
- **Capacitance:** Within the tolerance, when measured at 1kHz ± 20%, 1 Vrms and 20°C
- **Dissipation Factor (tan δ):** 0.025 maximum, when measured at 1kHz ± 20%, 1 Vrms and 20°C
- **Insulation Resistance:** 10,000MΩ min. at 500VDC and 1 minute electrification
- **Temperature Characteristics:**

Temp. Char.	Capacitance Change	Temp. Range
B/Y5P/2B4	±10% Maximum	-25°C ~ 85°C
E/Y5U/2E4	+20/-55% Maximum	-25°C ~ 85°C
The reference temperature: 20°C		

Nominal Capacitance (pF)	Capacitance Tolerance (%)	Temperature Characteristics	Dimensions (mm)		Kinked Lead - *RoHS Compliant*					Straight Lead (Not Recommended for New Design)				
					Digi-Key Part No.	Pricing			Panasonic Part No.	Digi-Key Part No.	Pricing			Panasonic Part No.
			D	F		10	100	1000			5	10	100	
100	±20	B	11.00	10.0	P9521-ND	4.37	29.29	149.10	ECK-ANA101MB	—	—	—	—	—
150	±20	B	11.00	10.0	P9522-ND	4.37	29.30	149.14	ECK-ANA151MB	P10447-ND	3.42	5.04	36.00	ECK-DNA151MB
220	±20	B	11.00	10.0	P9523-ND	4.37	29.29	149.10	ECK-ANA221MB	—	—	—	—	—
470	±20	B	11.00	10.0	P9524-ND	4.37	29.29	149.10	ECK-ANA471MB	—	—	—	—	—
1000	±20	B	11.00	10.0	P9525-ND	4.37	29.29	149.10	ECK-ANA102MB	—	—	—	—	—
1500	±20	E	11.00	10.0	P9526-ND	4.37	29.29	149.10	ECK-ANA152ME	—	—	—	—	—
2200	±20	E	11.00	10.0	P9527-ND	4.37	29.29	149.10	ECK-ANA222ME	P10452-ND	4.86	7.23	53.11	ECK-DNA222ME
3300	±20	E	13.00	10.0	P9528-ND	4.68	31.38	159.74	ECK-ANA332ME	P10453-ND	5.61	8.35	61.34	ECK-DNA332ME
4700	±20	E	16.00	10.0	P9529-ND	4.92	32.54	195.21	ECK-ANA472ME	P10454-ND	6.30	9.38	68.86	ECK-DNA472ME

Ceramic Disc Capacitors for Safety Regulations – Type NS-B (IEC384-14 2nd Ed. Sub-Class Y2)

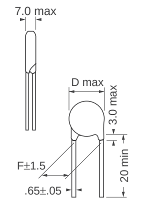

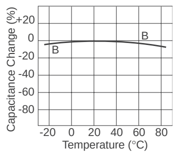

Class I Equipment. Type NS-B is recognized by UL and CSA (UL1414/250 VAC and CSA C22.2 No. 1).

SPECIFICATIONS:

- **Operating Temperature Range:** -25°C ~ 85°C
- **Dielectric Withstanding Voltage:** 2600 VAC (50/60 Hz) for 1 minute
- **Capacitance:** Within the tolerance, when measured at 1kHz ± 20%, 1 Vrms and 20°C
- **Dissipation Factor (tan δ):** 0.025 maximum, when measured at 1kHz ± 20%, 1 Vrms and 20°C
- **Insulation Resistance:** 10,000MΩ min. at 500VDC and 1 minute electrification

- **Rated Voltage:**

Applicable Standards	Rated Voltage
UL	250 VAC
CSA	125 VAC
IEC 384-14 2nd Ed. (EN 132 400) Sub-Class Y2	250 VAC
SEV 1016 (3300 to 4700 pF)	250 VAC
BSI (BS415: 1990), VDE 560-2, SEV1016 (100 to 2200 pF)	400 VAC

- **Temperature Characteristics:**

Temperature Characteristics	Capacitance Change	Temperature Range
B/Y5P/2B4	±10% Max.	-25°C ~ 85°C
The reference temperature: 20°C		

Nominal Capacitance (pF)	Capacitance Tolerance (%)	Temperature Characteristics	Dimensions (mm)		Digi-Key Part No.	Pricing			Panasonic Part No.
			D	F		5	10	100	
150	±20	B	10.5	7.5	P10443-ND	1.70	2.51	17.92	ECK-DNB151MB
220	±20	B	10.5	7.5	P10445-ND	1.70	2.51	17.92	ECK-DNB221MB

Ceramic Disc Capacitors for Safety Regulations – Type TS (IEC384-14 2nd Ed. Sub-Class Y2/X1)

Approved by UL and CSA for rated voltage 250VAC.

RECOMMENDED APPLICATIONS:
Noise suppression circuit for switching power supply.

SPECIFICATIONS:

- **Operating Temperature Range:** –25°C ~ 125°C
- **Rated Voltage:** 250VAC
- **Voltage Proof:** 2600VAC for 1 minute
- **Capacitance:** Within the tolerance, when measured at 1kHz ±20%, 1 Vrms and 20°C
- **Dissipation Factor (tan δ):** 0.025 maximum, when measured at 1kHz ± 20%, 1 Vrms and 20°C
- **Insulation Resistance:** 10,000MΩ min. at 500VDC and 1 minute electrification
- **Temperature Characteristics:**

Temperature Characteristics	Capacitance Change	Temperature Range
B/Y5P/2B4	±10% Maximum	-25°C ~ 85°C
E/Y5U/2E4	+20/-55% Maximum	-25°C ~ 85°C
F/Y5V/2F4	+30/-80% Maximum	-25°C ~ 85°C
The reference temperature: 20°C		

Fig. 1

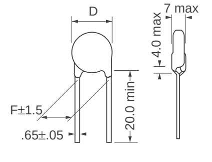

Fig. 2

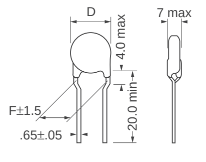

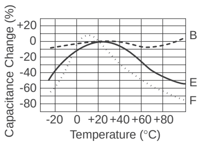

Fig.	Nominal Cap. (pF)	Cap. Tol. (%)	Temp. Char.	Dimensions (mm)		Digi-Key Part No.	Pricing			Panasonic Part No.
				D ± 1.0	F		5	10	100	
1	100	±20	B	7.0	7.5	P10455-ND	2.24	3.06	20.52	ECK-ATS101MB
	150	±20	B	7.0	7.5	P10456-ND	2.24	3.06	20.52	ECK-ATS151MB
	220	±20	B	7.0	7.5	P10457-ND	2.24	3.06	20.52	ECK-ATS221MB
	330	±20	B	7.0	7.5	P10458-ND	2.24	3.06	20.52	ECK-ATS331MB
	470	±20	B	7.0	7.5	P10459-ND	2.24	3.06	20.52	ECK-ATS471MB
	680	±20	B	7.0	7.5	P10460-ND	2.24	3.06	20.52	ECK-ATS681MB
	1000	±20	E	7.0	7.5	P10461-ND	2.33	3.18	21.34	ECK-ATS102ME
	1000	±20	B	9.5	7.5	P9657-ND	2.41	3.26	23.02	ECK-ATS102MB
	1500	±20	E	8.0	7.5	P10462-ND	2.65	3.62	24.28	ECK-ATS152ME
	2200	±20	E	9.0	7.5	P10463-ND	2.69	3.68	24.70	ECK-ATS222ME
2	3300	±20	E	11.5	7.5	P10464-ND	3.24	4.43	29.73	ECK-ATS332ME
1	4700	±20	E	14.0	10.0	P10465-ND	3.35	4.55	30.13	ECK-ATS472ME
2	4700	±20	F	11.5	7.5	P10466-ND	3.24	4.43	29.73	ECK-ATS472MF
	4700	±20	E	14.0	7.5	P10468-ND	3.35	4.55	30.13	ECK-ATS472ME6
1	10000	±20	F	16.0*	10.0	P10467-ND	3.73	5.07	33.55	ECK-ATS103MF
2	10000	±20	F	16.0*	7.5	P10469-ND	3.73	5.07	33.55	ECK-ATS103MF6

* D is ± 1.5.

Ceramic Disc Capacitors for Safety Regulations – Type VS (Sub-Class Y2/X1)

Type VS is recognized by VDE (IEC60384-14) and UL/CSA.

FEATURES: • Miniature size, 30% smaller than conventional Type TS

RECOMMENDED APPLICATIONS: • AC adapter, Battery charger for PC, Mobile-phone • Terminal peripheral equipment as MODEM, xDSL

SPECIFICATIONS: • **Operating Temperature Range**: -25°C ~ 125°C (-25°C ~ 85°C for UL and CSA) • **Rated Voltage:** 250VAC/Y2, 440VAC/X1 • **Voltage Proof:** 1500VAC, 1 minute • **Dissipation Factor (tan δ):** 0.025 maximum, when measured at 1kHz ± 20%, 1.0±0.2 Vrms and 20°C (for Temperature Characteristics B, E and F) • **Insulation Resistance:** 10,000MΩ min. at 500VDC and 60±5 second electrification

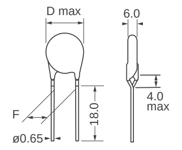

Temp. Char.	Capacitance Change	Temperature Range
SL	+350 ~ -1000ppm/°C	20°C ~ 85°C
B	±10% Maximum	-20°C ~ 85°C
E	+20, -55% Maximum	-20°C ~ 85°C
F	+30, -80% Maximum	-20°C ~ 85°C
The reference temperature: 20°C		

Nominal Cap. (pF)	Cap. Tol. (%)	Temp. Char.	Dimensions (mm)		Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Box		Panasonic Part No
			D	F		1	10	100		Size	Pricing	
5	±0.5pF	SL	8.0	5.0	P11408CT-ND	.32	2.18	15.40	P11408TB-ND	1,000	84.00	ECC-NVS050DG
10	±0.5pF	SL	8.0	5.0	P11409CT-ND	.52	3.56	23.86	P11409TB-ND	1,000	122.00	ECC-NVS100DG
22	±5%	SL	8.0	5.0	P11410CT-ND	.52	3.56	23.86	P11410TB-ND	1,000	122.00	ECC-NVS220JG
47	±5%	SL	8.0	5.0	P11411CT-ND	.52	3.56	23.86	P11411TB-ND	1,000	122.00	ECC-NVS470JG
100	±10%	B	8.0	5.0	P11412CT-ND	.52	3.56	23.86	P11412TB-ND	1,000	122.00	ECK-NVS101KB
150	±10%	B	8.0	5.0	P11413CT-ND	.52	3.56	23.86	P11413TB-ND	1,000	122.00	ECK-NVS151KB
220	±10%	B	8.0	5.0	P11414CT-ND	.52	3.56	23.86	P11414TB-ND	1,000	122.00	ECK-NVS221KB
330	±10%	B	8.0	5.0	P11415CT-ND	.52	3.56	23.86	P11415TB-ND	1,000	122.00	ECK-NVS331KB
470	±10%	B	8.0	5.0	P11416CT-ND	.52	3.56	23.86	P11416TB-ND	1,000	122.00	ECK-NVS471KB
1000	±10%	B	9.0	5.0	P11417CT-ND	.34	2.51	17.92	P11417TB-ND	1,000	100.00	ECK-NVS102KB
1000	±20%	E	8.0	5.0	P11418CT-ND	.57	3.87	25.95	P11418TB-ND	1,000	132.00	ECK-NVS102ME
1500	±20%	E	8.0	5.0	P11419CT-ND	.57	3.87	25.95	P11419TB-ND	1,000	132.00	ECK-NVS152ME
2200	±20%	E	9.0	5.0	P11420CT-ND	.61	4.18	28.04	P11420TB-ND	1,000	143.00	ECK-NVS222ME
4700	±20%	E	11.0	5.0	P11421CT-ND	.74	5.02	33.21	P11421TB-ND	1,000	199.00	ECK-NVS472ME
4700	±20%	F	10.0	5.0	P11422CT-ND	.70	4.76	31.50	P11422TB-ND	1,000	189.00	ECK-NVS472MF
10000	±20%	F	14.0	7.5	P11423CT-ND	.81	5.54	36.63	P11423TB-ND	500	138.50	ECK-NVS103MF

KEMET CHARGED.

Ceramic Conformally Coated Axial Leaded Capacitors “AXIMAX”

The “Aximax” series of multi-layer ceramic capacitors starts with a capacitor element that consists of formulated dielectric materials which have been cast into thin layers, interspersed with metal electrodes alternately exposed on opposite edges of the laminated structure. The entire structure is fired at high temperature to produce a monolithic block, which provides high capacitance values in a small physical volume. After firing, conductive terminations are applied to opposite ends of the chip to make contact with the exposed electrodes.

KEMET leaded ceramic capacitors are offered in the three most popular temperature characteristics: **C0G:** Class 1, with a temperature coefficient of 0 ± 30ppm per degree C over an operating temperature range of -55°C ~ 125°C (Also known as “NP0”). **X7R:** Class II, with a maximum capacitance change of ±15% over an operating temperature range of -55°C ~ 125°C. **Z5U:** Class III, with a maximum capacitance change of 22% - 56% over an operating temperature range of 10°C ~ 85°C. **RoHS Compliant Parts Available**

Style	L Max. In. (mm)	D Max. In. (mm)
C410	.170 (4.32)	.100 (2.54)
C412	.170 (4.32)	.120 (3.05)
C420	.260 (6.60)	.100 (2.54)
C430	.290 (7.37)	.150 (3.81)
C440	.400 (10.16)	.150 (3.81)

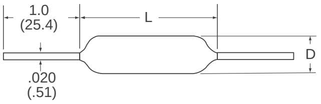

Dielectric	Volt-age	Cap.	Cap. Tol.(%)	Size Code	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Kemet Part No.
						1	10	100	1,000		Size	Pricing	
COG	100	10pF	±5	410	399-1806-1-ND	.29	2.79	20.18	139.73	399-1806-2-ND	5,000	93.00/M	C410C100J1G5CA7200
		15pF	±5	410	399-1807-1-ND	.29	2.79	20.18	139.73	—	—	—	C410C150J1G5CA7200
		22pF	±5	410	399-1808-1-ND	.29	2.79	20.18	139.73	399-1808-2-ND	5,000	93.00/M	C410C220J1G5CA7200
		33pF	±5	410	399-1809-1-ND	.29	2.79	20.18	139.73	—	—	—	C410C330J1G5CA7200
		47pF	±5	410	399-1810-1-ND	.29	2.79	20.18	139.73	—	—	—	C410C470J1G5CA7200
		68pF	±5	410	399-1811-1-ND	.29	2.79	20.18	139.73	399-1811-2-ND	5,000	93.00/M	C410C680J1G5CA7200
		150pF	±5	410	399-1813-1-ND	.29	2.79	20.18	139.73	—	—	—	C410C151J1G5CA7200
		220pF	±5	410	399-1814-1-ND	.29	2.79	20.18	139.73	—	—	—	C410C221J1G5CA7200
		680pF	±5	410	399-1817-1-ND	.29	2.79	20.18	139.73	399-1817-2-ND	5,000	93.00/M	C410C681J1G5CA7200
		1000pF	±5	410	399-1818-1-ND	.27	2.59	18.69	129.38	399-1818-2-ND	5,000	86.00/M	C410C102J1G5CA7200
		1500pF	±5	420	399-1819-1-ND	.44	4.14	29.90	207.00	399-1819-2-ND	5,000	138.00/M	C420C152J1G5CA7200
		2200pF	±5	420	399-1820-1-ND	.46	4.35	31.40	217.35	399-1820-2-ND	5,000	145.00/M	C420C222J1G5CA7200
		3300pF	±5	430	399-1821-1-ND	.75	7.14	51.58	357.08	—	—	—	C430C332J1G5CA7200
		4700pF	±5	430	399-1822-1-ND	.75	7.14	51.58	357.08	399-1822-2-ND	2,500	238.00/M	C430C472J1G5CA7200
		6800pF	±5	430	399-1823-1-ND	1.02	9.63	69.52	481.28	399-1823-2-ND	2,500	321.00/M	C430C682J1G5CA7200
		.01µF	±5	440	399-1824-1-ND	1.17	11.13	80.37	556.43	—	—	—	C440C103J1G5CA7200
		.015µF	±5	440	399-1825-1-ND	1.17	11.13	80.37	556.43	—	—	—	C440C153J1G5CA7200
	50	680pF	±5	410	399-1826-1-ND	.30	2.85	20.57	142.43	—	—	—	C410C681J5G5CA7200
		1000pF	±5	410	399-1827-1-ND	.27	2.59	18.69	129.38	399-1827-2-ND	5,000	86.00/M	C410C102J5G5CA7200
		1500pF	±5	412	399-1828-1-ND	.46	4.35	31.40	217.35	399-1828-2-ND	5,000	145.00/M	C412C152J5G5CA7200
		2200pF	±5	412	399-1829-1-ND	.46	4.35	31.40	217.35	—	—	—	C412C222J5G5CA7200
		1500pF	±5	420	399-1830-1-ND	.46	4.35	31.40	217.35	399-1830-2-ND	5,000	145.00/M	C420C152J5G5CA7200
		2200pF	±5	420	399-1831-1-ND	.46	4.35	31.40	217.35	399-1831-2-ND	5,000	145.00/M	C420C222J5G5CA7200
		3300pF	±5	430	399-1832-1-ND	.85	8.02	57.95	401.18	399-1832-2-ND	2,500	267.00/M	C430C332J5G5CA7200
		4700pF	±5	430	399-1833-1-ND	.85	8.02	57.95	401.18	—	—	—	C430C472J5G5CA7200
		6800pF	±5	430	399-1834-1-ND	.85	8.02	57.95	401.18	399-1834-2-ND	2,500	267.00/M	C430C682J5G5CA7200
		.01µF	±5	440	399-1835-1-ND	1.17	11.13	80.37	556.43	399-1835-2-ND	2,500	371.00/M	C440C103J5G5CA7200
		.015µF	±5	440	399-1836-1-ND	1.44	13.66	98.67	683.10	399-1836-2-ND	2,500	455.00/M	C440C153J5G5CA7200
X7R	100	470pF	±10	410	399-1837-1-ND	.22	2.13	15.37	106.43	—	—	—	C410C471K1R5CA7200
		680pF	±10	410	399-1838-1-ND	.22	2.13	15.37	106.43	399-1838-2-ND	5,000	71.00/M	C410C681K1R5CA7200
		1000pF	±10	410	399-1839-1-ND	.21	1.98	14.30	99.00	399-1839-2-ND	5,000	66.00/M	C410C102K1R5CA7200
		1500pF	±10	410	399-1840-1-ND	.22	2.13	15.37	106.43	399-1840-2-ND	5,000	71.00/M	C410C152K1R5CA7200
		2200pF	±10	410	399-1841-1-ND	.22	2.13	15.37	106.43	—	—	—	C410C222K1R5CA7200
		3300pF	±10	410	399-1842-1-ND	.22	2.13	15.37	106.43	399-1842-2-ND	5,000	71.00/M	C410C332K1R5CA7200
		4700pF	±10	410	399-1843-1-ND	.22	2.13	15.37	106.43	—	—	—	C410C472K1R5CA7200
		.015µF	±10	412	399-1846-1-ND	.26	2.48	17.88	123.75	399-1846-2-ND	5,000	83.00/M	C412C153K1R5CA7200
		.022µF	±10	412	399-1847-1-ND	.33	3.17	22.88	158.40	—	—	—	C412C223K1R5CA7200
		.015µF	±10	420	399-1848-1-ND	.26	2.48	17.88	123.75	—	—	—	C420C153K1R5CA7200
		.022µF	±10	420	399-1849-1-ND	.37	3.47	25.03	173.25	399-1849-2-ND	5,000	116.00/M	C420C223K1R5CA7200
		.033µF	±10	420	399-1850-1-ND	.37	3.47	25.03	173.25	—	—	—	C420C333K1R5CA7200
		.047µF	±10	430	399-1851-1-ND	.47	4.46	32.18	222.75	—	—	—	C430C473K1R5CA7200
		.068µF	±10	430	399-1852-1-ND	.65	6.14	44.33	306.90	399-1852-2-ND	2,500	205.00/M	C430C683K1R5CA7200
		.1µF	±10	430	399-1853-1-ND	.52	4.95	35.75	247.50	—	—	—	C430C104K1R5CA7200
		.15µF	±10	440	399-1854-1-ND	.96	9.11	65.78	455.40	399-1854-2-ND	2,500	304.00/M	C440C154K1R5CA7200
	50	.015µF	±10	410	399-1856-1-ND	.29	2.72	19.66	136.13	—	—	—	C410C153K5R5CA7200
		.022µF	±10	410	399-1857-1-ND	.29	2.72	19.66	136.13	399-1857-2-ND	5,000	91.00/M	C410C223K5R5CA7200
		.033µF	±10	410	399-1858-1-ND	.29	2.72	19.66	136.13	—	—	—	C410C333K5R5CA7200
		.047µF	±10	410	399-1859-1-ND	.31	2.97	21.45	148.50	—	—	—	C410C473K5R5CA7200
		.068µF	±10	412	399-1860-1-ND	.31	2.97	21.45	148.50	—	—	—	C412C683K5R5CA7200
		.1µF	±10	412	399-1861-1-ND	.20	1.88	13.59	94.05	—	—	—	C412C104K5R5CA7200
		.068µF	±10	420	399-1862-1-ND	.31	2.97	21.45	148.50	—	—	—	C420C683K5R5CA7200
		.15µF	±10	430	399-1864-1-ND	.65	6.14	44.33	306.90	399-1864-2-ND	2,500	205.00/M	C430C154K5R5CA7200
		.33µF	±10	440	399-1866-1-ND	1.06	10.00	72.22	499.95	399-1866-2-ND	2,500	333.00/M	C440C334K5R5CA7200
		.47µF	±10	440	399-1867-1-ND	1.57	14.85	107.25	742.50	399-1867-2-ND	2,500	495.00/M	C440C474K5R5CA7200
Z5U	100	.015µF	±20	410	399-1869-1-ND	.19	1.83	13.23	91.58	399-1869-2-ND	5,000	61.00/M	C410C153M1U5CA7200
		.022µF	±20	410	399-1870-1-ND	.19	1.83	13.23	91.58	—	—	—	C410C223M1U5CA7200
		.033µF	±20	420	399-1871-1-ND	.30	2.87	20.74	143.55	399-1871-2-ND	5,000	96.00/M	C420C333M1U5CA7200
		.047µF	±20	420	399-1872-1-ND	.30	2.87	20.74	143.55	—	—	—	C420C473M1U5CA7200
		.068µF	±20	430	399-1873-1-ND	.52	4.95	35.75	247.50	399-1873-2-ND	2,500	165.00/M	C430C683M1U5CA7200
		.15µF	±20	430	399-1875-1-ND	.57	5.45	39.33	272.25	—	—	—	C430C154M1U5CA7200
		.22µF	±20	440	399-1876-1-ND	.57	5.45	39.33	272.25	399-1876-2-ND	2,500	182.00/M	C440C224M1U5CA7200
	50	.033µF	±20	410	399-1877-1-ND	.18	1.68	12.16	84.15	399-1877-2-ND	5,000	56.00/M	C410C333M5U5CA7200
		.047µF	±20	410	399-1878-1-ND	.18	1.68	12.16	84.15	—	—	—	C410C473M5U5CA7200
		.068µF	±20	410	399-1879-1-ND	.18	1.68	12.16	84.15	—	—	—	C410C683M5U5CA7200
		.1µF	±20	410	399-1880-1-ND	.13	1.19	8.58	59.40	—	—	—	C410C104M5U5CA7200
		.15µF	±20	410	399-1881-1-ND	.26	2.48	17.88	123.75	399-1881-2-ND	5,000	83.00/M	C410C154M5U5CA7200
		.33µF	±20	412	399-1883-1-ND	.40	3.81	27.53	190.58	—	—	—	C412C334M5U5CA7200
		.33µF	±20	420	399-1884-1-ND	.40	3.81	27.53	190.58	—	—	—	C420C334M5U5CA7200
		.68µF	±20	430	399-1886-1-ND	.65	6.19	44.69	309.38	399-1886-2-ND	2,500	206.00/M	C430C684M5U5CA7200

(Continued)

Dielectric	Voltage	Cap.	Cap. Tol.(%)	Size Code	Digi-Key Part No.	Cut Tape Pricing 1	10	100	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Kemet Part No.
RoHS Compliant													
C0G	100	10pF	±5	410	399-4446-1-ND	.29	2.79	20.18	139.73	399-4446-2-ND	5,000	93.00/M	C410C100J1G5TA7200
		15pF	±5	410	399-4455-1-ND	.29	2.79	20.18	139.73	399-4455-2-ND	5,000	93.00/M	C410C150J1G5TA7200
		22pF	±5	410	399-4461-1-ND	.29	2.79	20.18	139.73	399-4461-2-ND	5,000	93.00/M	C410C220J1G5TA7200
		33pF	±5	410	399-4467-1-ND	.29	2.79	20.18	139.73	399-4467-2-ND	5,000	93.00/M	C410C330J1G5TA7200
		47pF	±5	410	399-4472-1-ND	.29	2.79	20.18	139.73	399-4472-2-ND	5,000	93.00/M	C410C470J1G5TA7200
		68pF	±5	410	399-4478-1-ND	.29	2.79	20.18	139.73	399-4478-2-ND	5,000	93.00/M	C410C680J1G5TA7200
		100pF	±5	410	399-4447-1-ND	.26	2.48	17.94	124.20	399-4447-2-ND	5,000	83.00/M	C410C101J1G5TA7200
		150pF	±5	410	399-4456-1-ND	.29	2.79	20.18	139.73	399-4456-2-ND	5,000	93.00/M	C410C151J1G5TA7200
		220pF	±5	410	399-4462-1-ND	.29	2.79	20.18	139.73	399-4462-2-ND	5,000	93.00/M	C410C221J1G5TA7200
		330pF	±5	410	399-4468-1-ND	.29	2.79	20.18	139.73	399-4468-2-ND	5,000	93.00/M	C410C331J1G5TA7200
		680pF	±5	410	399-4479-1-ND	.29	2.79	20.18	139.73	399-4479-2-ND	5,000	93.00/M	C410C681J1G5TA7200
		470pF	±5	410	399-4473-1-ND	.29	2.79	20.18	139.73	399-4473-2-ND	5,000	93.00/M	C410C471J1G5TA7200
		1000pF	±5	410	399-4448-1-ND	.27	2.59	18.69	129.38	399-4448-2-ND	5,000	86.00/M	C410C102J1G5TA7200
		1500pF	±5	420	399-4492-1-ND	.44	4.14	29.90	207.00	399-4492-2-ND	5,000	138.00/M	C420C152J1G5TA7202
		2200pF	±5	420	399-4495-1-ND	.46	4.35	31.40	217.35	399-4495-2-ND	5,000	145.00/M	C420C222J1G5TA7200
		3300pF	±5	430	399-4508-1-ND	.75	7.14	51.58	357.08	399-4508-2-ND	2,500	238.00/M	C430C332J1G5TA7200
		4700pF	±5	430	399-4510-1-ND	.75	7.14	51.58	357.08	399-4510-2-ND	2,500	238.00/M	C430C472J1G5TA7200
		6800pF	±5	430	399-4514-1-ND	1.02	9.63	69.52	481.28	399-4514-2-ND	2,500	321.00/M	C430C682J1G5TA7200
		.01µF	±5	440	399-4519-1-ND	1.17	11.13	80.37	556.43	399-4519-2-ND	2,500	371.00/M	C440C103J1G5TA7200
		.015µF	±5	440	399-4522-1-ND	1.17	11.13	80.37	556.43	399-4522-2-ND	2,500	371.00/M	C440C153J1G5TA7200
	50	680pF	±5	410	399-4480-1-ND	.30	2.85	20.57	142.43	399-4480-2-ND	5,000	95.00/M	C410C681J5G5TA7200
		1000pF	±5	410	399-4449-1-ND	.27	2.59	18.69	129.38	399-4449-2-ND	5,000	86.00/M	C410C102J5G5TA7200
		1500pF	±5	412	399-4485-1-ND	.46	4.35	31.40	217.35	399-4485-2-ND	5,000	145.00/M	C412C152J5G5TA7200
		2200pF	±5	412	399-4487-1-ND	.46	4.35	31.40	217.35	399-4487-2-ND	5,000	145.00/M	C412C222J5G5TA7200
		1500pF	±5	420	399-4493-1-ND	.46	4.35	31.40	217.35	399-4493-2-ND	5,000	145.00/M	C420C152J5G5TA7200
		2200pF	±5	420	399-4496-1-ND	.46	4.35	31.40	217.35	399-4496-2-ND	5,000	145.00/M	C420C222J5G5TA7200
		3300pF	±5	430	399-4509-1-ND	.85	8.02	57.95	401.18	399-4509-2-ND	2,500	267.00/M	C430C332J5G5TA7200
		4700pF	±5	430	399-4511-1-ND	.85	8.02	57.95	401.18	399-4511-2-ND	2,500	267.00/M	C430C472J5G5TA7200
		6800pF	±5	430	399-4515-1-ND	.85	8.02	57.95	401.18	399-4515-2-ND	2,500	267.00/M	C430C682J5G5TA7200
		.01µF	±5	440	399-4520-1-ND	1.17	11.13	80.37	556.43	399-4520-2-ND	2,500	371.00/M	C440C103J5G5TA7200
		.015µF	±5	440	399-4523-1-ND	1.44	13.66	98.67	683.10	399-4523-2-ND	2,500	455.00/M	C440C153J5G5TA7200
X7R	100	470pF	±10	410	399-4474-1-ND	.22	2.13	15.37	106.43	399-4474-2-ND	5,000	71.00/M	C410C471K1R5TA7200
		680pF	±10	410	399-4481-1-ND	.22	2.13	15.37	106.43	399-4481-2-ND	5,000	71.00/M	C410C681K1R5TA7200
		1000pF	±10	410	399-4450-1-ND	.21	1.98	14.30	99.00	399-4450-2-ND	5,000	66.00/M	C410C102K1R5TA7200
		1500pF	±10	410	399-4457-1-ND	.22	2.13	15.37	106.43	399-4457-2-ND	5,000	71.00/M	C410C152K1R5TA7200
		2200pF	±10	410	399-4463-1-ND	.22	2.13	15.37	106.43	399-4463-2-ND	5,000	71.00/M	C410C222K1R5TA7200
		3300pF	±10	410	399-4469-1-ND	.22	2.13	15.37	106.43	399-4469-2-ND	5,000	71.00/M	C410C332K1R5TA7200
		4700pF	±10	410	399-4475-1-ND	.22	2.13	15.37	106.43	399-4475-2-ND	5,000	71.00/M	C410C472K1R5TA7200
		6800pF	±10	410	399-4482-1-ND	.22	2.13	15.37	106.43	399-4482-2-ND	5,000	71.00/M	C410C682K1R5TA7200
		.01µF	±10	410	399-4451-1-ND	.18	1.68	12.16	84.15	399-4451-2-ND	5,000	56.00/M	C410C103K1R5TA7200
		.015µF	±10	412	399-4486-1-ND	.26	2.48	17.88	123.75	399-4486-2-ND	5,000	83.00/M	C412C153K1R5TA7200
		.022µF	±10	412	399-4488-1-ND	.33	3.17	22.88	158.40	399-4488-2-ND	5,000	106.00/M	C412C223K1R5TA7200
		.015µF	±10	420	399-4494-1-ND	.26	2.48	17.88	123.75	399-4494-2-ND	5,000	83.00/M	C420C153K1R5TA7200
		.022µF	±10	420	399-4497-1-ND	.37	3.47	25.03	173.25	399-4497-2-ND	5,000	116.00/M	C420C223K1R5TA7200
		.033µF	±10	420	399-4498-1-ND	.37	3.47	25.03	173.25	399-4498-2-ND	5,000	116.00/M	C420C333K1R5TA7200
		.047µF	±10	430	399-4512-1-ND	.47	4.46	32.18	222.75	399-4512-2-ND	2,500	149.00/M	C430C473K1R5TA7200
		.1µF	±10	430	399-4503-1-ND	.52	4.95	35.75	247.50	399-4503-2-ND	2,500	165.00/M	C430C104K1R5TA7200
		.068µF	±10	430	399-4516-1-ND	.65	6.14	44.33	306.90	399-4516-2-ND	2,500	205.00/M	C430C683K1R5TA7200
		.15µF	±10	440	399-4524-1-ND	.96	9.11	65.78	455.40	399-4524-2-ND	2.500	304.00/M	C440C154KR15TA7200
	50	.01µF	±10	410	399-4452-1-ND	.17	1.58	11.44	79.20	399-4452-2-ND	5,000	53.00/M	C410C103K5R5TA7200
		.015µF	±10	410	399-4458-1-ND	.29	2.72	19.66	136.13	399-4458-2-ND	5,000	91.00/M	C410C153K5R5TA7200
		.022µF	±10	410	399-4464-1-ND	.29	2.72	19.66	136.13	399-4464-2-ND	5,000	91.00/M	C410C223K5R5TA7200
		.033µF	±10	410	399-4470-1-ND	.29	2.72	19.66	136.13	399-4470-2-ND	5,000	91.00/M	C410C333K5R5TA7200
		.047µF	±10	410	399-4476-1-ND	.31	2.97	21.45	148.50	399-4476-2-ND	5,000	99.00/M	C410C473K5R5TA7200
		.068µF	±10	412	399-4490-1-ND	.31	2.97	21.45	148.50	399-4490-2-ND	5,000	99.00/M	C412C683K5R5TA7200
		.1µF	±10	412	399-4484-1-ND	.20	1.88	13.59	94.05	399-4484-2-ND	5,000	63.00/M	C412C104K5R5TA7200
		.068µF	±10	420	399-4502-1-ND	.31	2.97	21.45	148.50	399-4502-2-ND	5,000	99.00/M	C420C683K5R5TA7200
		.1µF	±10	420	399-4491-1-ND	.20	1.88	13.59	94.05	399-4491-2-ND	5,000	63.00/M	C420C104K5R5TA7200
		.15µF	±10	430	399-4505-1-ND	.65	6.14	44.33	306.90	399-4505-2-ND	2,500	205.00/M	C430C154K5R5TA7200
		.22µF	±10	430	399-4507-1-ND	.96	9.11	65.78	455.40	399-4507-2-ND	2,500	304.00/M	C430C224K5R5TA7200
		.33µF	±10	440	399-4526-1-ND	1.06	10.00	72.22	499.95	399-4526-2-ND	2,500	333.00/M	C440C334K5R5TA7200
		.47µF	±10	440	399-4527-1-ND	1.57	14.85	107.25	742.50	399-4527-2-ND	2,500	495.00/M	C440C474K5R5TA7200
		.01µF	±10	410	399-4453-1-ND	.14	1.29	9.30	64.35	399-4453-2-ND	5,000	43.00/M	C410C103M1U5TA7200
Z5U	100	.015µF	±20	410	399-4459-1-ND	.19	1.83	13.23	91.58	399-4459-2-ND	5,000	61.00/M	C410C153M1U5TA7200
		.022µF	±20	410	399-4465-1-ND	.19	1.83	13.23	91.58	399-4465-2-ND	5,000	61.00/M	C410C223M1U5TA7200
		.033µF	±20	420	399-4499-1-ND	.30	2.87	20.74	143.55	399-4499-2-ND	5,000	96.00/M	C420C333M1U5TA7200
		.047µF	±20	420	399-4501-1-ND	.30	2.87	20.74	143.55	399-4501-2-ND	5,000	96.00/M	C420C473M1U5TA7200
		.068µF	±20	430	399-4517-1-ND	.52	4.95	35.75	247.50	399-4517-2-ND	2,500	165.00/M	C430C683M1U5TA7200
		.1µF	±20	430	399-4504-1-ND	.34	3.22	23.24	160.88	399-4504-2-ND	2,500	107.00/M	C430C104M1U5TA7200
		.15µF	±20	430	399-4506-1-ND	.57	5.45	39.33	272.25	399-4506-2-ND	2,500	182.00/M	C430C154M1U5TA7200
		.22µF	+20	440	399-4525-1-ND	.57	5.45	39.33	272.25	399-4525-2-ND	2,500	182.00/M	C440C224M1U5TA7200
	50	.033µF	±20	410	399-4471-1-ND	.18	1.68	12.16	84.15	399-4471-2-ND	5,000	56.00/M	C410C333M5U5TA7200
		.047µF	±20	410	399-4477-1-ND	.18	1.68	12.16	84.15	399-4477-2-ND	5,000	56.00/M	C410C473M5U5TA7200
		.068µF	±20	410	399-4483-1-ND	.18	1.68	12.16	84.15	399-4483-2-ND	5,000	56.00/M	C410C683M5U5TA7200
		.1µF	±20	410	399-4454-1-ND	.13	1.19	8.58	59.40	399-4454-2-ND	5,000	40.00/M	C410C104M5U5TA7200
		.15µF	±20	410	399-4460-1-ND	.26	2.48	17.88	123.75	399-4460-2-ND	5,000	83.00/M	C410C154M5U5TA7200
		.22µF	±20	410	399-4466-1-ND	.26	2.48	17.88	123.75	399-4466-2-ND	5,000	83.00/M	C410C224M5U5TA7200
		.33µF	±20	412	399-4489-1-ND	.40	3.81	27.53	190.58	399-4489-2-ND	5,000	127.00/M	C412C334M5U5TA7200
		.33µF	±20	420	399-4500-1-ND	.40	3.81	27.53	190.58	399-4500-2-ND	5,000	127.00/M	C420C334M5U5TA7200
		.47µF	±20	430	399-4513-1-ND	.65	6.19	44.69	309.38	399-4513-2-ND	2,500	206.00/M	C430C474M5U5TA7200
		.68µF	±20	430	399-4518-1-ND	.65	6.19	44.69	309.38	399-4518-2-ND	2,500	206.00/M	C430C684M5U5TA7200
		4µF	±20	440	399-4521-1-ND	.84	7.92	57.20	396.00	399-4521-2-ND	2,500	264.00/M	C440C105M5U5TA7200

KEMET
CHARGED.

Ceramic Conformally Coated Radial Leaded Capacitors “GOLDEN MAX”

The “Golden Max” series of multi-layer ceramic capacitors starts with a capacitor element that consists of formulated dielectric materials which have been cast into thin layers, and interspersed with metal electrodes alternately exposed on opposite edges of the laminated structure. The entire structure is fired at high temperature to produce a monolithic block, which provides high capacitance values in a small physical volume. After firing, conductive terminations are applied to opposite ends of the chip to make contact with the exposed electrodes.

KEMET leaded ceramic capacitors are offered in the three most popular temperature characteristics: **C0G:** Class 1, with a temperature coefficient of 0 ± 30ppm per degree C over an operating temperature range of -55°C ~ 125°C (Also known as “NP0”). **X7R:** Class II, with a maximum capacitance change of ±15% over an operating temperature range of -55°C ~ 125°C. **Z5U:** Class III, with a maximum capacitance change of 22% - 56% over an operating temperature range of 10°C ~ 85°C. **RoHS Compliant Parts Available.**

Series:
C315
C320
C330
C340
C350

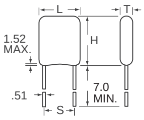

Series:
C317
C322
C323

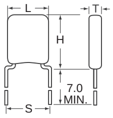

Dielec-tric	VDC	Cap.	Dimensions - mm S	Max. L	Max. H	Max. T	Digi-Key Part No.	Pricing 1	10	100	Kemet Part No.
C315 Series											
COG ±5%	100	150pF	2.54	3.81	5.33	2.54	399-1900-ND	.27	1.96	14.00	C315C151J1G5CA
		680pF	2.54	3.81	5.33	2.54	399-1904-ND	.38	2.82	20.15	C315C681J1G5CA
		1000pF	2.54	3.81	5.33	2.54	399-1905-ND	.31	2.28	16.25	C315C102J1G5CA
	200	10pF	2.54	3.81	5.33	2.54	399-1888-ND	.26	1.93	13.75	C315C100J2G5CA
		47pF	2.54	3.81	5.33	2.54	399-1893-ND	.28	2.08	14.85	C315C470J2G5CA
X7R ±10%	50	3300pF	2.54	3.81	5.33	2.54	399-2001-ND	.19	1.39	9.90	C315C332K5R5CA
		6800pF	2.54	3.81	5.33	2.54	399-2003-ND	.21	1.54	11.00	C315C682K5R5CA
		.01µF	2.54	3.81	5.33	2.54	399-2004-ND	.20	1.51	10.75	C315C103K5R5CA
		.015µF	2.54	3.81	5.33	2.54	399-2005-ND	.21	1.54	11.00	C315C153K5R5CA
		.033µF	2.54	3.81	5.33	2.54	399-2007-ND	.22	1.66	11.83	C315C333K5R5CA
	100	1500pF	2.54	3.81	5.33	2.54	399-1995-ND	.19	1.39	9.90	C315C152K1R5CA
		6800pF	2.54	3.81	5.33	2.54	399-1999-ND	.21	1.54	11.00	C315C682K1R5CA
	200	150pF	2.54	3.81	5.33	2.54	399-1986-ND	.24	1.80	12.88	C315C151K2R5CA
		220pF	2.54	3.81	5.33	2.54	399-1987-ND	.24	1.80	12.88	C315C221K2R5CA
		680pF	2.54	3.81	5.33	2.54	399-1990-ND	.24	1.80	12.88	C315C681K2R5CA
		1500pF	2.54	3.81	5.33	2.54	399-1992-ND	.24	1.80	12.88	C315C152K2R5CA
Z5U ±20%	50	4700pF	2.54	3.81	5.33	2.54	399-2119-ND	.19	1.37	9.78	C315C472M5U5CA
		6800pF	2.54	3.81	5.33	2.54	399-2120-ND	.19	1.37	9.78	C315C682M5U5CA
		.015µF	2.54	3.81	5.33	2.54	399-2122-ND	.18	1.33	9.50	C315C153M5U5CA
		.033µF	2.54	3.81	5.33	2.54	399-2124-ND	.18	1.33	9.50	C315C333M5U5CA
		.068µF	2.54	3.81	5.33	2.54	399-2126-ND	.20	1.49	10.65	C315C683M5U5CA
	100	1500pF	2.54	3.81	5.33	2.54	399-2112-ND	.19	1.37	9.78	C315C152M1U5CA
		2200pF	2.54	3.81	5.33	2.54	399-2113-ND	.19	1.37	9.78	C315C222M1U5CA
		3300pF	2.54	3.81	5.33	2.54	399-2114-ND	.19	1.37	9.78	C315C332M1U5CA
		4700pF	2.54	3.81	5.33	2.54	399-2115-ND	.19	1.37	9.78	C315C472M1U5CA
		6800pF	2.54	3.81	5.33	2.54	399-2116-ND	.19	1.37	9.78	C315C682M1U5CA
		.015µF	2.54	3.81	5.33	2.54	399-2118-ND	.21	1.53	10.93	C315C153M1U5CA
C315 Series RoHS Compliant											
COG ±5%	100	150pF	2.54	3.81	5.33	2.54	399-4153-ND	.27	1.96	14.00	C315C151J1G5TA
		220pF	2.54	3.81	5.33	2.54	399-4163-ND	.27	1.96	14.00	C315C221J1G5TA
		330pF	2.54	3.81	5.33	2.54	399-4173-ND	.27	1.96	14.00	C315C331J1G5TA
		470pF	2.54	3.81	5.33	2.54	399-4182-ND	.27	1.96	14.00	C315C471J1G5TA
		680pF	2.54	3.81	5.33	2.54	399-4191-ND	.38	2.82	20.15	C315C681J1G5TA
		1000pF	2.54	3.81	5.33	2.54	399-4143-ND	.31	2.28	16.25	C315C102J1G5TA
	200	10pF	2.54	3.81	5.33	2.54	399-4140-ND	.26	1.93	13.75	C315C100J2G5TA
		15pF	2.54	3.81	5.33	2.54	399-4152-ND	.28	2.08	14.85	C315C150J2G5TA
		22pF	2.54	3.81	5.33	2.54	399-4162-ND	.28	2.08	14.85	C315C220J2G5TA
		27pF	2.54	3.81	5.33	2.54	399-4171-ND	.28	2.08	14.85	C315C270J2G5TA
		33pF	2.54	3.81	5.33	2.54	399-4172-ND	.28	2.08	14.85	C315C330J2G5TA
		47pF	2.54	3.81	5.33	2.54	399-4181-ND	.28	2.08	14.85	C315C470J2G5TA
		68pF	2.54	3.81	5.33	2.54	399-4190-ND	.30	2.19	15.68	C315C680J2G5TA
		100pF	2.54	3.81	5.33	2.54	399-4141-ND	.28	2.08	14.85	C315C101J2G5TA
		150pF	2.54	3.81	5.33	2.54	399-4154-ND	.32	2.35	16.80	C315C151J2G5TA
		220pF	2.54	3.81	5.33	2.54	399-4164-ND	.32	2.35	16.80	C315C221J2G5TA
		330pF	2.54	3.81	5.33	2.54	399-4174-ND	.38	2.82	20.15	C315C331J2G5TA
		470pF	2.54	3.81	5.33	2.54	399-4183-ND	.38	2.82	20.15	C315C471J2G5TA
X7R ±10%	50	3300pF	2.54	3.81	5.33	2.54	399-4177-ND	.19	1.39	9.90	C315C332K5R5TA
		4700pF	2.54	3.81	5.33	2.54	399-4186-ND	.21	1.54	11.00	C315C472K5R5TA
		6800pF	2.54	3.81	5.33	2.54	399-4194-ND	.21	1.54	11.00	C315C682K5R5TA
		.01µF	2.54	3.81	5.33	2.54	399-4148-ND	.20	1.51	10.75	C315C103K5R5TA
X7R ±10%	50	.015µF	2.54	3.81	5.33	2.54	399-4159-ND	.21	1.54	11.00	C315C153K5R5TA
		.022µF	2.54	3.81	5.33	2.54	399-4169-ND	.22	1.66	11.83	C315C223K5R5TA
		.033µF	2.54	3.81	5.33	2.54	399-4179-ND	.22	1.66	11.83	C315C333K5R5TA
	100	1000pF	2.54	3.81	5.33	2.54	399-4144-ND	.17	1.27	9.08	C315C102K1R5TA
		1500pF	2.54	3.81	5.33	2.54	399-4156-ND	.19	1.39	9.90	C315C152K1R5TA
		2200pF	2.54	3.81	5.33	2.54	399-4166-ND	.19	1.39	9.90	C315C222K1R5TA
		3300pF	2.54	3.81	5.33	2.54	399-4176-ND	.19	1.39	9.90	C315C332K1R5TA
		4700pF	2.54	3.81	5.33	2.54	399-4185-ND	.21	1.54	11.00	C315C472K1R5TA
		6800pF	2.54	3.81	5.33	2.54	399-4193-ND	.21	1.54	11.00	C315C682K1R5TA
		.01µF	2.54	3.81	5.33	2.54	399-4147-ND	.19	1.39	9.90	C315C103K1R5TA
	200	100pF	2.54	3.81	5.33	2.54	399-4142-ND	.22	1.65	11.75	C315C101K2R5TA
		150pF	2.54	3.81	5.33	2.54	399-4155-ND	.24	1.80	12.88	C315C151K2R5 TA
		220pF	2.54	3.81	5.33	2.54	399-4165-ND	.24	1.80	12.88	C315C221K2R5TA
		330pF	2.54	3.81	5.33	2.54	399-4175-ND	.24	1.80	12.88	C315C331K2R5TA
		470pF	2.54	3.81	5.33	2.54	399-4184-ND	.24	1.80	12.88	C315C471K2R5TA
		680pF	2.54	3.81	5.33	2.54	399-4192-ND	.24	1.80	12.88	C315C681K2R5TA
		1000pF	2.54	3.81	5.33	2.54	399-4145-ND	.22	1.65	11.75	C315C102K2R5TA
		1500pF	2.54	3.81	5.33	2.54	399-4157-ND	.24	1.80	12.88	C315C152K2R5TA
		2200pF	2.54	3.81	5.33	2.54	399-4167-ND	.24	1.80	12.88	C315C222K2R5TA
Z5U ±20%	50	4700pF	2.54	3.81	5.33	2.54	399-4188-ND	.19	1.37	9.78	C315C472M5U5TA
		6800pF	2.54	3.81	5.33	2.54	399-4196-ND	.19	1.37	9.78	C315C682M5U5TA
		.01µF	2.54	3.81	5.33	2.54	399-4150-ND	.16	1.21	8.63	C315C103M5U5TA
		.015µF	2.54	3.81	5.33	2.54	399-4161-ND	.18	1.33	9.50	C315C153M5U5TA
		.022µF	2.54	3.81	5.33	2.54	399-4170-ND	.18	1.33	9.50	C315C223M5U5TA
		.033µF	2.54	3.81	5.33	2.54	399-4180-ND	.18	1.33	9.50	C315C333M5U5TA
		.047µF	2.54	3.81	5.33	2.54	399-4189-ND	.18	1.33	9.50	C315C473M5U5TA
		.068µF	2.54	3.81	5.33	2.54	399-4197-ND	.20	1.49	10.65	C315C683M5U5TA
		.1µF	2.54	3.81	5.33	2.54	399-4151-ND	.16	1.21	8.63	C315C104M5U5TA
	100	1000pF	2.54	3.81	5.33	2.54	399-4146-ND	.17	1.25	8.93	C315C102M1U5TA
		1500pF	2.54	3.81	5.33	2.54	399-4158-ND	.19	1.37	9.78	C315C152M1U5TA
		2200pF	2.54	3.81	5.33	2.54	399-4168-ND	.19	1.37	9.78	C315C222M1U5TA
		3300pF	2.54	3.81	5.33	2.54	399-4178-ND	.19	1.37	9.78	C315C332M1U5TA
		4700pF	2.54	3.81	5.33	2.54	399-4187-ND	.19	1.37	9.78	C315C472M1U5TA
		6800pF	2.54	3.81	5.33	2.54	399-4195-ND	.19	1.37	9.78	C315C682M1U5TA
		.01µF	2.54	3.81	5.33	2.54	399-4149-ND	.17	1.25	8.93	C315C103M1U5TA
		.015µF	2.54	3.81	5.33	2.54	399-4160-ND	.21	1.53	10.93	C315C153M1U5TA
C317 SERIES											
COG ±5%	100	330pF	5.08	3.81	5.84	2.54	399-1920-ND	.27	1.96	14.00	C317C331J1G5CA
		680pF	5.08	3.81	5.84	2.54	399-1922-ND	.38	2.82	20.15	C317C681J1G5CA
	200	220pF	5.08	3.81	5.84	2.54	399-1915-ND	.32	2.35	16.80	C317C680J2G5CA
		470pF	5.08	3.81	5.84	2.54	399-1917-ND	.38	2.82	20.15	C317C471J2G5CA
X7R ±10%	50	3300pF	5.08	3.81	5.84	2.54	399-2024-ND	.19	1.39	9.90	C317C332K5R5CA
		6800pF	5.08	3.81	5.84	2.54	399-2026-ND	.21	1.54	11.00	C317C682K5R5CA
		.015µF	5.08	3.81	5.84	2.54	399-2028-ND	.21	1.54	11.00	C317C153K5R5CA
	100	1000pF	5.08	3.81	5.84	2.54	399-2017-ND	.17	1.27	9.08	C317C102K1R5CA
		1500pF	5.08	3.81	5.84	2.54	399-2018-ND	.19	1.39	9.90	C317C152K1R5CA
		2200pF	5.08	3.81	5.84	2.54	399-2019-ND	.19	1.39	9.90	C317C222K1R5CA
		3300pF	5.08	3.81	5.84	2.54	399-2020-ND	.19	1.39	9.90	C317C332K1R5CA
		6800pF	5.08	3.81	5.84	2.54	399-2022-ND	.21	1.54	11.00	C317C682K1R5CA
	200	100pF	5.08	3.81	5.84	2.54	399-2008-ND	.22	1.65	11.75	C317C101K2R5CA
		150pF	5.08	3.81	5.84	2.54	399-2009-ND	.24	1.80	12.88	C317C151K2R5CA
		220pF	5.08	3.81	5.84	2.54	399-2010-ND	.24	1.80	12.88	C317C221K2R5CA
		330pF	5.08	3.81	5.84	2.54	399-2011-ND	.18	1.55	12.10	C317C331K2R5CA
		470pF	5.08	3.81	5.84	2.54	399-2012-ND	.24	1.80	12.88	C317C471K2R5CA
		680pF	5.08	3.81	5.84	2.54	399-2013-ND	.24	1.80	12.88	C317C681K2R5CA

(Continued)

Dielec-tric	VDC	Cap.	Dimensions - mm S	Max. L	Max. H	Max. T	Digi-Key Part No.	Pricing 1	10	100	Kemet Part No.
X7R ±10%	200	1000pF	5.08	3.81	5.84	2.54	399-2014-ND	.22	1.65	11.75	C317C102K2R5CA
		1500pF	5.08	3.81	5.84	2.54	399-2015-ND	.24	1.80	12.88	C317C152K2R5CA
		2200pF	5.08	3.81	5.84	2.54	399-2016-ND	.24	1.80	12.88	C317C222K2R5CA
Z5U ±5%	50	6800pF	5.08	3.81	5.84	2.54	399-2136-ND	.19	1.37	9.78	C317C682M5U5CA
		.015µF	5.08	3.81	5.84	2.54	399-2138-ND	.18	1.33	9.50	C317C153M5U5CA
		.022µF	5.08	3.81	5.84	2.54	399-2139-ND	.18	1.33	9.50	C317C223M5U5CA
		.033µF	5.08	3.81	5.84	2.54	399-2140-ND	.18	1.33	9.50	C317C333M5U5CA
		.047µF	5.08	3.81	5.84	2.54	399-2141-ND	.18	1.33	9.50	C317C473M5U5CA
		.1µF	5.08	3.81	5.84	2.54	399-2143-ND	.16	1.21	8.63	C317C104M5U5CA
	100	1500pF	5.08	3.81	5.84	2.54	399-2129-ND	.19	1.37	9.78	C317C152M1U5CA
		2200pF	5.08	3.81	5.84	2.54	399-2130-ND	.19	1.37	9.78	C317C222M1U5CA
		3300pF	5.08	3.81	5.84	2.54	399-2131-ND	.19	1.37	9.78	C317C332M1U5CA
		4700pF	5.08	3.81	5.84	2.54	399-2132-ND	.19	1.37	9.78	C317C472M1U5CA
		6800pF	5.08	3.81	5.84	2.54	399-2133-ND	.19	1.37	9.78	C317C682M1U5CA
		.015µF	5.08	3.81	5.84	2.54	399-2135-ND	.21	1.53	10.93	C317C153M1U5CA
C317 Series RoHS Compliant											
C0G ±5%	100	150pF	5.08	3.81	5.84	2.54	399-4211-ND	.27	1.96	14.00	C317C151J1G5TA
		220pF	5.08	3.81	5.84	2.54	399-4221-ND	.27	1.96	14.00	C317C221J1G5TA
		330pF	5.08	3.81	5.84	2.54	399-4230-ND	.27	1.96	14.00	C317C331J1G5TA
		470pF	5.08	3.81	5.84	2.54	399-4240-ND	.27	1.96	14.00	C317C471J1G5TA
		680pF	5.08	3.81	5.84	2.54	399-4248-ND	.38	2.82	20.15	C317C681J1G5TA
		1000pF	5.08	3.81	5.84	2.54	399-4201-ND	.31	2.28	16.25	C317C102J1G5TA
	200	10pF	5.08	3.81	5.84	2.54	399-4198-ND	.26	1.93	13.75	C317C100J2G5TA
		15pF	5.08	3.81	5.84	2.54	399-4210-ND	.28	2.08	14.85	C317C150J2G5TA
		22pF	5.08	3.81	5.84	2.54	399-4220-ND	.28	2.08	14.85	C317C220J2G5TA
		33pF	5.08	3.81	5.84	2.54	399-4229-ND	.28	2.08	14.85	C317C330J2G5TA
		39pF	5.08	3.81	5.84	2.54	399-4238-ND	.28	2.08	14.85	C317C390J2G5TA
		47pF	5.08	3.81	5.84	2.54	399-4239-ND	.28	2.08	14.85	C317C470J2G5TA
		68pF	5.08	3.81	5.84	2.54	399-4247-ND	.30	2.19	15.68	C317C680J2G5TA
		100pF	5.08	3.81	5.84	2.54	399-4199-ND	.28	2.08	14.85	C317C101J2G5TA
		150pF	5.08	3.81	5.84	2.54	399-4212-ND	.32	2.35	16.80	C317C151J2G5TA
		220pF	5.08	3.81	5.84	2.54	399-4222-ND	.32	2.35	16.80	C317C221J2G5TA
		330pF	5.08	3.81	5.84	2.54	399-4231-ND	.38	2.82	20.15	C317C331J2G5TA
		470pF	5.08	3.81	5.84	2.54	399-4241-ND	.38	2.82	20.15	C317C471J2G5TA
X7R ±10%	50	3300pF	5.08	3.81	5.84	2.54	399-4234-ND	.19	1.39	9.90	C317C332K5R5TA
		4700pF	5.08	3.81	5.84	2.54	399-4244-ND	.21	1.54	11.00	C317C472K5R5TA
		6800pF	5.08	3.81	5.84	2.54	399-4251-ND	.21	1.54	11.00	C317C682K5R5TA
		.01µF	5.08	3.81	5.84	2.54	399-4206-ND	.20	1.51	10.75	C317C103K5R5TA
		.015µF	5.08	3.81	5.84	2.54	399-4217-ND	.21	1.54	11.00	C317C153K5R5TA
		.022µF	5.08	3.81	5.84	2.54	399-4227-ND	.22	1.66	11.83	C317C223K5R5TA
		.033µF	5.08	3.81	5.84	2.54	399-4236-ND	.22	1.66	11.83	C317C333K5R5TA
	100	1000pF	5.08	3.81	5.84	2.54	399-4202-ND	.17	1.27	9.08	C317C102K1R5TA
		1500pF	5.08	3.81	5.84	2.54	399-4214-ND	.19	1.39	9.90	C317C152K1R5TA
		2200pF	5.08	3.81	5.84	2.54	399-4224-ND	.19	1.39	9.90	C317C222K1R5TA
		3300pF	5.08	3.81	5.84	2.54	399-4233-ND	.19	1.39	9.90	C317C332K1R5TA
		4700pF	5.08	3.81	5.84	2.54	399-4243-ND	.21	1.54	11.00	C317C472K1R5TA
		6800pF	5.08	3.81	5.84	2.54	399-4250-ND	.21	1.54	11.00	C317C682K1R5TA
		.01µF	5.08	3.81	5.84	2.54	399-4205-ND	.19	1.39	9.90	C317C103K1R5TA
	200	100pF	5.08	3.81	5.84	2.54	399-4200-ND	.22	1.65	11.75	C317C101K2R5TA
		150pF	5.08	3.81	5.84	2.54	399-4213-ND	.24	1.80	12.88	C317C151K2R5TA
		220pF	5.08	3.81	5.84	2.54	399-4223-ND	.24	1.80	12.88	C317C221K2R5TA
		330pF	5.08	3.81	5.84	2.54	399-4232-ND	.24	1.80	12.88	C317C331K2R5TA
		470pF	5.08	3.81	5.84	2.54	399-4242-ND	.24	1.80	12.88	C317C471K2R5TA
		680pF	5.08	3.81	5.84	2.54	399-4249-ND	.24	1.80	12.88	C317C681K2R5TA
		1000pF	5.08	3.81	5.84	2.54	399-4203-ND	.22	1.65	11.75	C317C102K2R5TA
		1500pF	5.08	3.81	5.84	2.54	399-4215-ND	.24	1.80	12.88	C317C152K2R5TA
		2200pF	5.08	3.81	5.84	2.54	399-4225-ND	.24	1.80	12.88	C317C222K2R5TA
Z5U ±20%	50	6800pF	5.08	3.81	5.84	2.54	399-4253-ND	.19	1.37	9.78	C317C682M5U5TA
		.01µF	5.08	3.81	5.84	2.54	399-4208-ND	.16	1.21	8.63	C317C103M5U5TA
		.015µF	5.08	3.81	5.84	2.54	399-4219-ND	.18	1.33	9.50	C317C153M5U5TA
		.022µF	5.08	3.81	5.84	2.54	399-4228-ND	.18	1.33	9.50	C317C223M5U5TA
		.033µF	5.08	3.81	5.84	2.54	399-4237-ND	.18	1.33	9.50	C317C333M5U5TA
		.047µF	5.08	3.81	5.84	2.54	399-4246-ND	.18	1.33	9.50	C317C473M5U5TA
		.068µF	5.08	3.81	5.84	2.54	399-4254-ND	.20	1.49	10.65	C317C683M5U5TA
		.1µF	5.08	3.81	5.84	2.54	399-4209-ND	.16	1.21	8.63	C317C104M5U5TA
	100	1000pF	5.08	3.81	5.84	2.54	399-4204-ND	.17	1.25	8.93	C317C102M1U5TA
		1500pF	5.08	3.81	5.84	2.54	399-4216-ND	.19	1.37	9.78	C317C152M1U5TA
		2200pF	5.08	3.81	5.84	2.54	399-4226-ND	.19	1.37	9.78	C317C222M1U5TA
		3300pF	5.08	3.81	5.84	2.54	399-4235-ND	.19	1.37	9.78	C317C332M1U5TA

Dielec-tric	VDC	Cap.	Dimensions - mm S	Max. L	Max. H	Max. T	Digi-Key Part No.	Pricing 1	10	100	Kemet Part No.
Z5U ±20%	100	4700pF	5.08	3.81	5.84	2.54	399-4245-ND	.19	1.37	9.78	C317C472M1U5TA
		6800pF	5.08	3.81	5.84	2.54	399-4252-ND	.19	1.37	9.78	C317C682M1U5TA
		.01µF	5.08	3.81	5.84	2.54	399-4207-ND	.17	1.25	8.93	C317C103M1U5TA
		.015µF	5.08	3.81	5.84	2.54	399-4218-ND	.21	1.53	10.93	C317C153M1U5TA
C320 Series											
C0G ±5%	100	680pF	2.54	5.08	6.60	3.18	399-1940-ND	.39	2.85	20.35	C320C681J1G5CA
		1500pF	2.54	5.08	6.60	3.18	399-1942-ND	.39	2.90	20.70	C320C152J1G5CA
		3300pF	2.54	5.08	6.60	3.18	399-1944-ND	.45	3.30	23.58	C320C332J1G5CA
		4700pF	2.54	5.08	6.60	3.18	399-1945-ND	.48	3.54	25.30	C320C472J1G5CA
	200	10pF	2.54	5.08	6.60	3.18	399-1924-ND	.27	1.96	14.00	C320C100J2G5CA
		15pF	2.54	5.08	6.60	3.18	399-1925-ND	.29	2.12	15.13	C320C150J2G5CA
		68pF	2.54	5.08	6.60	3.18	399-1929-ND	.30	2.23	15.95	C320C680J2G5CA
		100pF	2.54	5.08	6.60	3.18	399-1930-ND	.29	2.12	15.13	C320C101J2G5CA
		150pF	2.54	5.08	6.60	3.18	399-1931-ND	.32	2.37	16.95	C320C151J2G5CA
		680pF	2.54	5.08	6.60	3.18	399-1935-ND	.42	3.08	22.03	C320C681J2G5CA
		1500pF	2.54	5.08	6.60	3.18	399-1937-ND	.45	3.30	23.58	C320C152J2G5CA
		3300pF	2.54	5.08	6.60	3.18	399-1939-ND	.55	4.07	29.05	C320C332J2G5CA
X7R ±10%	50	.015µF	2.54	5.08	6.60	3.18	399-2049-ND	.21	1.57	11.20	C320C153K5R5CA
		.022µF	2.54	5.08	6.60	3.18	399-2050-ND	.23	1.69	12.05	C320C223K5R5CA
		.033µF	2.54	5.08	6.60	3.18	399-2051-ND	.23	1.69	12.05	C320C333K5R5CA
		.047µF	2.54	5.08	6.60	3.18	399-2052-ND	.23	1.69	12.05	C320C473K5R5CA
		.068µF	2.54	5.08	6.60	3.18	399-2053-ND	.26	1.92	13.73	C320C683K5R5CA
	100	6800pF	2.54	5.08	6.60	3.18	399-2041-ND	.21	1.58	11.30	C320C682K1R5CA
		.015µF	2.54	5.08	6.60	3.18	399-2043-ND	.24	1.74	12.43	C320C153K1R5CA
		.022µF	2.54	5.08	6.60	3.18	399-2044-ND	.27	2.02	14.40	C320C223K1R5CA
		.033µF	2.54	5.08	6.60	3.18	399-2045-ND	.27	2.02	14.40	C320C333K1R5CA
		.047µF	2.54	5.08	6 .60	3.18	399-2046-ND	.34	2.49	17.80	C320C473K1R5CA
		.068µF	2.54	5.08	6.60	3.18	399-2047-ND	.34	2.49	17.80	C320C683K1R5CA
	200	1500pF	2.54	5.08	6.60	3.18	399-2032-ND	.25	1.85	13.23	C320C152K2R5CA
		3300pF	2.54	5.08	6.60	3.18	399-2034-ND	.25	1.85	13.23	C320C332K2R5CA
		4700pF	2.54	5.08	6.60	3.18	399-2035-ND	.27	2.01	14.38	C320C472K2R5CA
		6800pF	2.54	5.08	6.60	3.18	399-2036-ND	.27	2.01	14.38	C320C682K2R5CA
		.015µF	2.54	5.08	6.60	3.18	399-2038-ND	.31	2.30	16.40	C320C153K2R5CA
		.022µF	2.54	5.08	6.60	3.18	399-2039-ND	.31	2.30	16.40	C320C223K2R5CA
Z5U ±20%	50	.033µF	2.54	5.08	6.60	3.18	399-2152-ND	.18	1.33	9.50	C320C333M5U5CA
		.047µF	2.54	5.08	6.60	3.18	399-2153-ND	.18	1.33	9.50	C320C473M5U5CA
		.068µF	2.54	5.08	6.60	3.18	399-2154-ND	.20	1.49	10.65	C320C683M5U5CA
		.15µF	2.54	5.08	6.60	3.18	399-2156-ND	.24	1.73	12.38	C320C154M5U5CA
	100	.015µF	2.54	5.08	6.60	3.18	399-2145-ND	.21	1.53	10.93	C320C153M1U5CA
		.033µF	2.54	5.08	6.60	3.18	399-2147-ND	.24	1.73	12.38	C320C333M1U5CA
		.047µF	2.54	5.08	6.60	3.18	399-2148-ND	.24	1.73	12.38	C320C473M1U5CA
		.068µF	2.54	5.08	6.60	3.18	399-2149-ND	.28	2.05	14.68	C320C683M1U5CA
		.15µF	2.54	5.08	6.60	3.18	399-2151-ND	.38	2.78	19.85	C320C154M1U5CA
C320 Series RoHS Compliant											
C0G ±5%	100	680pF	2.54	5.08	6.60	3.18	399-4311-ND	.39	2.85	20.35	C320C681J1G5TA
		1000pF	2.54	5.08	6.60	3.18	399-4257-ND	.31	2.29	16.38	C320C102J1G5TA
		1500pF	2.54	5.08	6.60	3.18	399-4269-ND	.39	2.90	20.70	C320C152J1G5TA
		2200pF	2.54	5.08	6.60	3.18	399-4281-ND	.39	2.90	20.70	C320C222J1G5TA
		3300pF	2.54	5.08	6.60	3.18	399-4292-ND	.45	3.30	23.58	C320C332J1G5TA
		4700pF	2.54	5.08	6.60	3.18	399-4302-ND	.48	3.54	25.30	C320C472J1G5TA
	200	10pF	2.54	5.08	6.60	3.18	399-4255-ND	.27	1.96	14.00	C320C100J2G5TA
		15pF	2.54	5.08	6.60	3.18	399-4267-ND	.29	2.12	15.13	C320C150J2G5TA
		22pF	2.54	5.08	6.60	3.18	399-4279-ND	.29	2.12	15.13	C320C220J2G5TA
		33pF	2.54	5.08	6.60	3.18	399-4290-ND	.29	2.12	15.13	C320C330J2G5TA
		47pF	2.54	5.08	6.60	3.18	399-4300-ND	.29	2.12	15.13	C320C470J2G5TA
		68pF	2.54	5.08	6.60	3.18	399-4310-ND	.30	2.23	15.95	C320C680J2G5TA
		100pF	2.54	5.08	6.60	3.18	399-4256-ND	.29	2.12	15.13	C320C101J2G5TA
		150pF	2.54	5.08	6.60	3.18	399-4268-ND	.32	2.37	16.95	C320C151J2G5TA

(Continued)

Dielec-tric	VDC	Cap.	Dimensions - mm				Digi-Key Part No.	Pricing			Kemet Part No.
			S	Max. L	Max. H	Max. T		1	10	100	
COG ±5%	200	220pF	2.54	5.08	6.60	3.18	399-4280-ND	.32	2.37	16.95	C320C221J2G5TA
		330pF	2.54	5.08	6.60	3.18	399-4291-ND	.39	2.85	20.35	C320C331J2G5TA
		470pF	2.54	5.08	6.60	3.18	399-4301-ND	.39	2.85	20.35	C320C471J2G5TA
		680pF	2.54	5.08	6.60	3.18	399-4312-ND	.42	3.08	22.03	C320C681J2G5TA
		1000pF	2.54	5.08	6.60	3.18	399-4258-ND	.40	2.97	21.20	C320C102J2G5TA
		1500pF	2.54	5.08	6.60	3.18	399-4270-ND	.45	3.30	23.58	C320C152J2G5TA
		2200pF	2.54	5.08	6.60	3.18	399-4282-ND	.45	3.30	23.58	C320C222J2G5TA
		3300pF	2.54	5.08	6.60	3.18	399-4293-ND	.55	4.07	29.05	C320C332J2G5TA
X7R ±10%	50	.015µF	2.54	5.08	6.60	3.18	399-4274-ND	.21	1.57	11.20	C320C153K5R5TA
		.022µF	2.54	5.08	6.60	3.18	399-4286-ND	.23	1.69	12.05	C320C223K5R5TA
		.033µF	2.54	5.08	6.60	3.18	399-4296-ND	.23	1.69	12.05	C320C333K5R5TA
		.047µF	2.54	5.08	6.60	3.18	399-4306-ND	.26	1.92	13.73	C320C473K5R5TA
		.068µF	2.54	5.08	6.60	3.18	399-4316-ND	.26	1.92	13.73	C320C683K5R5TA
		.1µF	2.54	5.08	6.60	3.18	399-4264-ND	.21	1.57	11.20	C320C104K5R5TA
		.15µF	2.54	5.08	6.60	3.18	399-4276-ND	.37	2.71	19.33	C320C154K5R5TA
		.22µF	2.54	5.08	6.60	3.18	399-4288-ND	.53	3.92	28.00	C320C224K5R5TA
	100	4700pF	2.54	5.08	6.60	3.18	399-4303-ND	.21	1.58	11.30	C320C472K1R5TA
		6800pF	2.54	5.08	6.60	3.18	399-4313-ND	.21	1.58	11.30	C320C682K1R5TA
		.015µF	2.54	5.08	6.60	3.18	399-4272-ND	.24	1.74	12.43	C320C153K1R5TA
		.022µF	2.54	5.08	6.60	3.18	399-4284-ND	.27	2.02	14.40	C320C223K1R5TA
		.033µF	2.54	5.08	6.60	3.18	399-4295-ND	.27	2.02	14.40	C320C333K1R5TA
		.047µF	2.54	5.08	6.60	3.18	399-4305-ND	.34	2.49	17.80	C320C473K1R5TA
		.01µF	2.54	5.08	6.60	3.18	399-4260-ND	.19	1.42	10.18	C320C103K1R5TA
		.068µF	2.54	5.08	6.60	3.18	399-4315-ND	.34	2.49	17.80	C320C683K1R5TA
		.1µF	2.54	5.08	6.60	3.18	399-4263-ND	.34	2.49	17.80	C320C104K1R5TA
	200	1000pF	2.54	5.08	6.60	3.18	399-4259-ND	.23	1.69	12.08	C320C102K2R5TA
		1500pF	2.54	5.08	6.60	3.18	399-4271-ND	.25	1.85	13.23	C320C152K2R5TA
		2200pF	2.54	5.08	6.60	3.18	399-4283-ND	.25	1.85	13.23	C320C222K2R5TA
		3300pF	2.54	5.08	6.60	3.18	399-4294-ND	.25	1.85	13.23	C320C332K2R5TA
		4700pF	2.54	5.08	6.60	3.18	399-4304-ND	.27	2.01	14.38	C320C472K2R5TA
		6800pF	2.54	5.08	6.60	3.18	399-4314-ND	.27	2.01	14.38	C320C682K2R5TA
		.01µF	2.54	5.08	6.60	3.18	399-4261-ND	.25	1.85	13.23	C320C103K2R5TA
		.015µF	2.54	5.08	6.60	3.18	399-4273-ND	.31	2.30	16.40	C320C153K2R5TA
		.022µF	2.54	5.08	6.60	3.18	399-4285-ND	.31	2.30	16.40	C320C223K2R5TA
X7R ±20%	500	.01µF	2.54	5.08	6.60	3.18	399-3504-ND	.86	6.35	45.38	C320C103MCR5TA
Z5U ±20%	50	.033µF	2.54	5.08	6.60	3.18	399-4298-ND	.18	1.33	9.50	C320C333M5U5TA
		.047µF	2.54	5.08	6.60	3.18	399-4308-ND	.18	1.33	9.50	C320C473M5U5TA
		.068µF	2.54	5.08	6.60	3.18	399-4318-ND	.20	1.49	10.65	C320C683M5U5TA
		.1µF	2.54	5.08	6.60	3.18	399-4266-ND	.16	1.21	8.63	C320C104M5U5TA
		.15µF	2.54	5.08	6.60	3.18	399-4278-ND	.24	1.73	12.38	C320C154M5U5TA
		.22µF	2.54	5.08	6.60	3.18	399-4289-ND	.32	2.33	16.68	C320C224M5U5TA
		.33µF	2.54	5.08	6.60	3.18	399-4299-ND	.32	2.33	16.68	C320C334M5U5TA
		.47µF	2.54	5.08	6.60	3.18	399-4309-ND	.40	2.94	21.00	C320C474M5U5TA
	100	.01µF	2.54	5.08	6.60	3.18	399-4262-ND	.17	1.25	8.93	C320C103M1U5TA
		.015µF	2.54	5.08	6.60	3.18	399-4275-ND	.21	1.53	10.93	C320C153M1U5TA
		.022µF	2.54	5.08	6.60	3.18	399-4287-ND	.21	1.53	10.93	C320C223M1U5TA
		.033µF	2.54	5.08	6.60	3.18	399-4297-ND	.24	1.73	12.38	C320C333M1U5TA
		.047µF	2.54	5.08	6.60	3.18	399-4307-ND	.24	1.73	12.38	C320C473M1U5TA
		.068µF	2.54	5.08	6.60	3.18	399-4317-ND	.28	2.05	14.68	C320C683M1U5TA
		.1µF	2.54	5.08	6.60	3.18	399-4265-ND	.21	1.53	10.93	C320C104M1U5TA
		.15µF	2.54	5.08	6.60	3.18	399-4277-ND	.38	2.78	19.85	C320C154M1U5TA
C322 Series											
COG ±5%	100	1500pF	5.08	5.08	6.60	3.18	399-1964-ND	.39	2.90	20.70	C322C152J1G5CA
	200	10pF	5.08	5.08	6.60	3.18	399-1946-ND	.27	1.96	14.00	C322C100J2G5CA
		15pF	5.08	5.08	6.60	3.18	399-1947-ND	.29	2.12	15.13	C322C150J2G5CA
		22pF	5.08	5.08	6.60	3.18	399-1948-ND	.29	2.12	15.13	C322C220J2G5CA
		100pF	5.08	5.08	6.60	3.18	399-1952-ND	.29	2.12	15.13	C322C101J2G5CA
		150pF	5.08	5.08	6.60	3.18	399-1953-ND	.32	2.37	16.95	C322C151J2G5CA
		220pF	5.08	5.08	6.60	3.18	399-1954-ND	.32	2.37	16.95	C322C221J2G5CA
		330pF	5.08	5.08	6.60	3.18	399-1955-ND	.39	2.85	20.35	C322C331J2G5CA
		470pF	5.08	5.08	6.60	3.18	399-1956-ND	.39	2.85	20.35	C322C471J2G5CA
		680pF	5.08	5.08	6.60	3.18	399-1957-ND	.42	3.08	22.03	C322C681J2G5CA
		1000pF	5.08	5.08	6.60	3.18	399-1958-ND	.40	2.97	21.20	C322C102J2G5CA
		1500pF	5.08	5.08	6.60	3.18	399-1959-ND	.45	3.30	23.58	C322C152J2G5CA
		2200pF	5.08	5.08	6.60	3.18	399-1960-ND	.45	3.30	23.58	C322C222J2G5CA
		3300pF	5.08	5.08	6.60	3.18	399-1961-ND	.55	4.07	29.05	C322C332J2G5CA
X7R ±10%	50	.015µF	5.08	5.08	6.60	3.18	399-2076-ND	.21	1.57	11.20	C322C153K5R5CA
		.022µF	5.08	5.08	6.60	3.18	399-2077-ND	.23	1.69	12.05	C322C223K5R5CA
		.033µF	5.08	5.08	6.60	3.18	399-2078-ND	.23	1.69	12.05	C322C333K5R5CA
X7R ±10%	50	.068µF	5.08	5.08	6.60	3.18	399-2080-ND	.26	1.92	13.73	C322C683K5R5CA
		.15µF	5.08	5.08	6.60	3.18	399-2082-ND	.37	2.71	19.33	C322C154K5R5CA
	100	4700pF	5.08	5.08	6.60	3.18	399-2066-ND	.21	1.58	11.30	C322C472K1R5CA
		6800pF	5.08	5.08	6.60	3.18	399-2067-ND	.21	1.58	11.30	C322C682K1R5CA
		.022µF	5.08	5.08	6.60	3.18	399-2070-ND	.27	2.02	14.40	C322C223K1R5CA
		.033µF	5.08	5.08	6.60	3.18	399-2071-ND	.27	2.02	14.40	C322C333K1R5CA
		.068µF	5.08	5.08	6.60	3.18	399-2073-ND	.34	2.49	17.80	C322C683K1R5CA
	200	1000pF	5.08	5.08	6.60	3.18	399-2057-ND	.23	1.69	12.08	C322C102K2R5CA
		1500pF	5.08	5.08	6.60	3.18	399-2058-ND	.25	1.85	13.23	C322C152K2R5CA
		2200pF	5.08	5.08	6.60	3.18	399-2059-ND	.25	1.85	13.23	C322C222K2R5CA
		3300pF	5.08	5.08	6.60	3.18	399-2060-ND	.25	1.85	13.23	C322C332K2R5CA
		6800pF	5.08	5.08	6.60	3.18	399-2062-ND	.27	2.01	14.38	C322C682K2R5CA
		.015µF	5.08	5.08	6.60	3.18	399-2064-ND	.31	2.30	16.40	C322C153K2R5CA
		.022µF	5.08	5.08	6.60	3.18	399-2065-ND	.31	2.30	16.40	C322C223K2R5CA
Z5U ±20%	50	.033µF	5.08	5.08	6.60	3.18	399-2168-ND	.18	1.33	9.50	C322C333M5U5CA
		.047µF	5.08	5.08	6.60	3.18	399-2169-ND	.18	1.33	9.50	C322C473M5U5CA
		.068µF	5.08	5.08	6.60	3.18	399-2170-ND	.20	1.49	10.65	C322C683M5U5CA
		.15µF	5.08	5.08	6.60	3.18	399-2172-ND	.24	1.73	12.38	C322C154M5U5CA
	100	.015µF	5.08	5.08	6.60	3.18	399-2161-ND	.21	1.53	10.93	C322C153M1U5CA
		.022µF	5.08	5.08	6.60	3.18	399-2162-ND	.21	1.53	10.93	C322C223M1U5CA
		.033µF	5.08	5.08	6.60	3.18	399-2163-ND	.24	1.73	12.38	C322C333M1U5CA
		.047µF	5.08	5.08	6.60	3.18	399-2164-ND	.24	1.73	12.38	C322C473M1U5CA
		.068µF	5.08	5.08	6.60	3.18	399-2165-ND	.28	2.05	14.68	C322C683M1U5CA
		.15µF	5.08	5.08	6.60	3.18	399-2167-ND	.38	2.78	19.85	C322C154M1U5CA
C322 Series RoHS Compliant											
COG ±5%	100	680pF	5.08	5.08	6.60	3.18	399-4376-ND	.39	2.85	20.35	C322C681J1G5TA
		1000pF	5.08	5.08	6.60	3.18	399-4321-ND	.31	2.29	16.38	C322C102J1G5TA
		1500pF	5.08	5.08	6.60	3.18	399-4334-ND	.39	2.90	20.70	C322C152J1G5TA
		2200pF	5.08	5.08	6.60	3.18	399-4346-ND	.39	2.90	20.70	C322C222J1G5TA
		3300pF	5.08	5.08	6.60	3.18	399-4357-ND	.45	3.30	23.58	C322C332J1G5TA
		4700pF	5.08	5.08	6.60	3.18	399-4367-ND	.48	3.54	25.30	C322C472J1G5TA
	200	10pF	5.08	5.08	6.60	3.18	399-4319-ND	.27	1.96	14.00	C322C100J2G5TA
		15pF	5.08	5.08	6.60	3.18	399-4332-ND	.29	2.12	15.13	C322C150J2G5TA
		22pF	5.08	5.08	6.60	3.18	399-4344-ND	.29	2.12	15.13	C322C220J2G5TA
		33pF	5.08	5.08	6.60	3.18	399-4355-ND	.29	2.12	15.13	C322C330J2G5TA
		47pF	5.08	5.08	6.60	3.18	399-4365-ND	.29	2.12	15.13	C322C470J2G5TA
		68pF	5.08	5.08	6.60	3.18	399-4375-ND	.30	2.23	15.95	C322C680J2G5TA
		100pF	5.08	5.08	6.60	3.18	399-4320-ND	.29	2.12	15.13	C322C101J2G5TA
		150pF	5.08	5.08	6.60	3.18	399-4333-ND	.32	2.37	16.95	C322C151J2G5TA
		220pF	5.08	5.08	6.60	3.18	399-4345-ND	.32	2.37	16.95	C322C221J2G5TA
		330pF	5.08	5.08	6.60	3.18	399-4356-ND	.39	2.85	20.35	C322C331J2G5TA
		470pF	5.08	5.08	6.60	3.18	399-4366-ND	.39	2.85	20.35	C322C471J2G5TA
		680pF	5.08	5.08	6.60	3.18	399-4377-ND	.42	3.08	22.03	C322C681J2G5TA
		1000pF	5.08	5.08	6.60	3.18	399-4322-ND	.40	2.97	21.20	C322C102J2G5TA
		1500pF	5.08	5.08	6.60	3.18	399-4335-ND	.45	3.30	23.58	C322C152J2G5TA
		2200pF	5.08	5.08	6.60	3.18	399-4347-ND	.45	3.30	23.58	C322C222J2G5TA
		3300pF	5.08	5.08	6.60	3.18	399-4358-ND	.55	4.07	29.05	C322C332J2G5TA
X7R ±10%	50	.01µF	5.08	5.08	6.60	3.18	399-4326-ND	.18	1.30	9.25	C322C103K5R5TA
		.015µF	5.08	5.08	6.60	3.18	399-4339-ND	.21	1.57	11.20	C322C153K5R5TA
		.022µF	5.08	5.08	6.60	3.18	399-4351-ND	.23	1.69	12.05	C322C223K5R5TA
		.033µF	5.08	5.08	6.60	3.18	399-4361-ND	.23	1.69	12.05	C322C333K5R5TA
		.047µF	5.08	5.08	6.60	3.18	399-4371-ND	.26	1.92	13.73	C322C473K5R5TA
		.068µF	5.08	5.08	6.60	3.18	399-4381-ND	.26	1.92	13.73	C322C683K5R5TA
		.1µF	5.08	5.08	6.60	3.18	399-4329-ND	.21	1.57	11.20	C322C104K5R5TA
		.15µF	5.08	5.08	6.60	3.18	399-4341-ND	.37	2.71	19.33	C322C154K5R5TA
		.22µF	5.08	5.08	6.60	3.18	399-4353-ND	.53	3.92	28.00	C322C224K5R5TA
	100	4700pF	5.08	5.08	6.60	3.18	399-4368-ND	.21	1.58	11.30	C322C472K1R5TA
		6800pF	5.08	5.08	6.60	3.18	399-4378-ND	.21	1.58	11.30	C322C682K1R5TA
		.01µF	5.08	5.08	6.60	3.18	399-4324-ND	.19	1.42	10.18	C322C103K1R5TA
		.015µF	5.08	5.08	6.60	3.18	399-4337-ND	.24	1.74	12.43	C322C153K1R5TA
		.022µF	5.08	5.08	6.60	3.18	399-4349-ND	.27	2.02	14.40	C322C223K1R5TA
		.033µF	5.08	5.08	6.60	3.18	399-4360-ND	.27	2.02	14.40	C322C333K1R5TA
		.047µF	5.08	5.08	6.60	3.18	399-4370-ND	.34	2.49	17.80	C322C473K1R5TA
		.068µF	5.08	5.08	6.60	3.18	399-4380-ND	.34	2.49	17.80	C322C683K1R5TA
		.1µF	5.08	5.08	6.60	3.18	399-4328-ND	.34	2.49	17.80	C322C104K1R5TA
	200	1000pF	5.08	5.08	6.60	3.18	399-4323-ND	.23	1.69	12.08	C322C102K2R5TA
		1500pF	5.08	5.08	6.60	3.18	399-4336-ND	.25	1.85	13.23	C322C152K2R5TA
		2200pF	5.08	5.08	6.60	3.18	399-4348-ND	.25	1.85	13.23	C322C222K2R5TA

(Continued)

Dielectric	VDC	Cap.	Dimensions - mm				Digi-Key	Pricing			Kemet
			S	Max. L	Max. H	Max. T	Part No.	1	10	100	Part No.
X7R ±10%	200	3300pF	5.08	5.08	6.60	3.18	399-4359-ND	.25	1.85	13.23	C322C332K2R5TA
		4700pF	5.08	5.08	6.60	3.18	399-4369-ND	.27	2.01	14.38	C322C472K2R5TA
		6800pF	5.08	5.08	6.60	3.18	399-4379-ND	.27	2.01	14.38	C322C682K2R5TA
		.01µF	5.08	5.08	6.60	3.18	399-4325-ND	.25	1.85	13.23	C322C103K2R5TA
		.015µF	5.08	5.08	6.60	3.18	399-4338-ND	.31	2.30	16.40	C322C153K2R5TA
		.022µF	5.08	5.08	6.60	3.18	399-4350-ND	.31	2.30	16.40	C322C223K2R5TA
Z5U ±20%	50	.033µF	5.08	5.08	6.60	3.18	399-4363-ND	.18	1.33	9.50	C322C333M5U5TA
		.047µF	5.08	5.08	6.60	3.18	399-4373-ND	.18	1.33	9.50	C322C473M5U5TA
		.068µF	5.08	5.08	6.60	3.18	399-4383-ND	.20	1.49	10.65	C322C683M5U5TA
		.1µF	5.08	5.08	6.60	3.18	399-4331-ND	.16	1.21	8.63	C322C104M5U5TA
		.15µF	5.08	5.08	6.60	3.18	399-4343-ND	.24	1.73	12.38	C322C154M5U5TA
		.22µF	5.08	5.08	6.60	3.18	399-4354-ND	.32	2.33	16.68	C322C224M5U5TA
		.33µF	5.08	5.08	6.60	3.18	399-4364-ND	.32	2.33	16.68	C322C334M5U5TA
		.47µF	5.08	5.08	6.60	3.18	399-4374-ND	.40	2.94	21.00	C322C474M5U5TA
	100	.01µF	5.08	5.08	6.60	3.18	399-4327-ND	.17	1.25	8.93	C322C103M1U5TA
		.015µF	5.08	5.08	6.60	3.18	399-4340-ND	.21	1.53	10.93	C322C153M1U5TA
		.022µF	5.08	5.08	6.60	3.18	399-4352-ND	.21	1.53	10.93	C322C223M1U5TA
		.033µF	5.08	5.08	6.60	3.18	399-4362-ND	.24	1.73	12.38	C322C333M1U5TA
		.047µF	5.08	5.08	6.60	3.18	399-4372-ND	.24	1.73	12.38	C322C473M1U5TA
		.068µF	5.08	5.08	6.60	3.18	399-4382-ND	.28	2.05	14.68	C322C683M1U5TA
		.1µF	5.08	5.08	6.60	3.18	399-4330-ND	.21	1.53	10.93	C322C104M1U5TA
		.15µF	5.08	5.08	6.60	3.18	399-4342-ND	.38	2.78	19.85	C322C154M1U5TA

C323 Series RoHS Compliant

Dielectric	VDC	Cap.	S	Max. L	Max. H	Max. T	Digi-Key Part No.	1	10	100	Kemet Part No.
X7R ±10%	500	.01µF	5.08	5.08	8.13	3.18	399-3505-ND	.92	6.76	48.28	C323C103KCR5TA
X7R ±20%	500	.01µF	5.08	5.08	8.13	3.18	399-3506-ND	.86	6.35	45.38	C323C103MCR5TA

C330 Series

Dielectric	VDC	Cap.	S	Max. L	Max. H	Max. T	Digi-Key Part No.	1	10	100	Kemet Part No.
C0G ±5%	100	3300pF	5.08	7.62	9.14	3.81	399-1973-ND	.84	6.16	44.00	C330C332J1G5CA
		4700pF	5.08	7.62	9.14	3.81	399-1974-ND	.84	6.16	44.00	C330C472J1G5CA
	200	4700pF	5.08	7.62	9.14	3.81	399-1969-ND	.94	6.92	49.45	C330C472J2G5CA
X7R ±10%	50	.15µF	5.08	7.62	9.14	3.81	399-2097-ND	.60	4.43	31.65	C330C154K5R5CA
		.47µF	5.08	7.62	9.14	3.81	399-2100-ND	.83	6.11	43.68	C330C474K5R5CA
	100	.068µF	5.08	7.62	9.14	3.81	399-2091-ND	.46	3.36	24.03	C330C683K1R5CA
		.15µF	5.08	7.62	9.14	3.81	399-2093-ND	.62	4.59	32.78	C330C154K1R5CA
	200	.015µF	5.08	7.62	9.14	3.81	399-2084-ND	.46	3.42	24.45	C330C153K2R5CA
		.033µF	5.08	7.62	9.14	3.81	399-2086-ND	.46	3.42	24.45	C330C333K2R5CA
		.056µF	5.08	7.62	9.14	3.81	399-2088-ND	.46	3.42	24.45	C330C563K2R5CA
		.068µF	5.08	7.62	9.14	3.81	399-2089-ND	.63	4.63	33.08	C330C683K2R5CA
Z5U ±20%	50	.47µF	5.08	7.62	9.14	3.81	399-2182-ND	.52	3.83	27.33	C330C474M5U5CA
	100	.1µF	5.08	7.62	9.14	3.81	399-2176-ND	.41	3.02	21.58	C330C104M1U5CA
		.15µF	5.08	7.62	9.14	3.81	399-2177-ND	.48	3.54	25.30	C330C154M1U5CA

C330 Series RoHS Compliant

Dielectric	VDC	Cap.	S	Max. L	Max. H	Max. T	Digi-Key Part No.	1	10	100	Kemet Part No.
C0G ±5%	100	3300pF	5.08	7.62	9.14	3.81	399-4404-ND	.84	6.16	44.00	C330C332J1G5TA
		4700pF	5.08	7.62	9.14	3.81	399-4411-ND	.84	6.16	44.00	C330C472J1G5TA
		6800pF	5.08	7.62	9.14	3.81	399-4419-ND	.91	6.68	47.73	C330C682J1G5TA
		.01µF	5.08	7.62	9.14	3.81	399-4384-ND	1.11	8.21	58.65	C330C103J1G5TA
		.015µF	5.08	7.62	9.14	3.81	399-4391-ND	1.41	10.38	74.18	C330C153J1G5TA
		.022µF	5.08	7.62	9.14	3.81	399-4398-ND	2.10	15.46	110.40	C330C223J1G5TA
	200	3300pF	5.08	7.62	9.14	3.81	399-4405-ND	.94	6.92	49.45	C330C332J2G5TA
		4700pF	5.08	7.62	9.14	3.81	399-4412-ND	.94	6.92	49.45	C330C472J2G5TA
		6800pF	5.08	7.62	9.14	3.81	399-4420-ND	1.33	9.78	69.88	C330C682J2G5TA
		.01µF	5.08	7.62	9.14	3.81	399-4385-ND	1.26	9.30	66.43	C330C103J2G5TA
		.015µF	5.08	7.62	9.14	3.81	399-4392-ND	2.49	18.32	130.83	C330C153J2G5TA
X7R ±10%	50	.15µF	5.08	7.62	9.14	3.81	399-4395-ND	.60	4.43	31.65	C330C154K5R5TA
		.22µF	5.08	7.62	9.14	3.81	399-4401-ND	.77	5.68	40.60	C330C224K5R5TA
		.33µF	5.08	7.62	9.14	3.81	399-4408-ND	.83	6.11	43.68	C330C334K5R5TA
		.47µF	5.08	7.62	9.14	3.81	399-4415-ND	.83	6.11	43.68	C330C474K5R5TA
		.68µF	5.08	7.62	9.14	3.81	399-4423-ND	1.73	12.74	91.00	C330C684K5R5TA
X7R ±10%	50	1µF	5.08	7.62	9.14	3.81	399-4389-ND	1.40	10.31	73.65	C330C105K5R5TA
	100	.068µF	5.08	7.62	9.14	3.81	399-4421-ND	.46	3.36	24.03	C330C683K1R5TA
		.1µF	5.08	7.62	9.14	3.81	399-4386-ND	.40	2.97	21.20	C330C104K1R5TA
		.15µF	5.08	7.62	9.14	3.81	399-4394-ND	.62	4.59	32.78	C330C154K1R5TA
		.22µF	5.08	7.62	9.14	3.81	399-4400-ND	.91	6.72	48.03	C330C224K1R5TA
		.33µF	5.08	7.62	9.14	3.81	399-4407-ND	1.13	8.34	59.60	C330C334K1R5TA
		.47µF	5.08	7.62	9.14	3.81	399-4414-ND	1.74	12.86	91.83	C330C474K1R5TA
	200	.015µF	5.08	7.62	9.14	3.81	399-4393-ND	.46	3.42	24.45	C330C153K2R5TA
		.022µF	5.08	7.62	9.14	3.81	399-4399-ND	.46	3.42	24.45	C330C223K2R5TA
		.033µF	5.08	7.62	9.14	3.81	399-4406-ND	.46	3.42	24.45	C330C333K2R5TA
		.047µF	5.08	7.62	9.14	3.81	399-4413-ND	.46	3.42	24.45	C330C473K2R5TA
		.056µF	5.08	7.62	9.14	3.81	399-4418-ND	.46	3.42	24.45	C330C563K2R5TA
		.068µF	5.08	7.62	9.14	3.81	399-4422-ND	.63	4.63	33.08	C330C683K2R5TA
		.1µF	5.08	7.62	9.14	3.81	399-4387-ND	.96	7.05	50.33	C330C104K2R5TA
	500	.1µF	5.08	7.62	9.14	3.81	399-3507-ND	2.01	14.79	105.68	C330C104KCR5TA
		.12µF	5.08	7.62	9.14	3.81	399-3509-ND	3.01	22.19	158.50	C330C124KCR5TA
X7R ±20%	500	.1µF	5.08	7.62	9.14	3.81	399-3508-ND	1.89	13.91	99.33	C330C104MCR5TA
Z5U ±20%	50	.33µF	5.08	7.62	9.14	3.81	399-4410-ND	.52	3.83	27.33	C330C334M5U5TA
		.47µF	5.08	7.62	9.14	3.81	399-4417-ND	.52	3.83	27.33	C330C474M5U5TA
		.68µF	5.08	7.62	9.14	3.81	399-4424-ND	.72	5.27	37.68	C330C684M5U5TA
		1µF	5.08	7.62	9.14	3.81	399-4390-ND	.65	4.79	34.23	C330C105M5U5TA
		1.5µF	5.08	7.62	9.14	3.81	399-4397-ND	1.06	7.81	55.78	C330C155M5U5TA
		2.2µF	5.08	7.62	9.14	3.81	399-4403-ND	1.11	8.19	58.50	C330C225M5U5TA
	100	.1µF	5.08	7.62	9.14	3.81	399-4388-ND	.41	3.02	21.58	C330C104M1U5TA
		.15µF	5.08	7.62	9.14	3.81	399-4396-ND	.48	3.54	25.30	C330C154M1U5TA
		.22µF	5.08	7.62	9.14	3.81	399-4402-ND	.55	4.03	28.75	C330C224M1U5TA
		.33µF	5.08	7.62	9.14	3.81	399-4409-ND	.55	4.03	28.75	C330C334M1U5TA
		.47µF	5.08	7.62	9.14	3.81	399-4416-ND	.66	4.83	34.50	C330C474M1U5TA

C340 Series

Dielectric	VDC	Cap.	S	Max. L	Max. H	Max. T	Digi-Key Part No.	1	10	100	Kemet Part No.
C0G ±5%	200	.022µF	5.08	10.16	11.68	3.81	399-1979-ND	4.53	33.39	238.50	C340C223J2G5CA
		.033µF	5.08	10.16	11.68	3.81	399-1980-ND	5.06	37.25	266.10	C340C333J2G5CA
		.047µF	5.08	10.16	11.68	3.81	399-1981-ND	5.67	41.75	298.20	C340C473J2G5CA
X7R ±10%	100	.47µF	5.08	10.16	11.68	3.81	399-2106-ND	1.85	13.65	97.50	C340C474K1R5CA
		.68µF	5.08	10.16	11.68	3.81	399-2107-ND	4.63	34.15	243.90	C340C684K1R5CA
	200	.15µF	5.08	10.16	11.68	3.81	399-2104-ND	4.13	30.45	217.50	C340C154K2R5CA
		.15µF	5.08	10.16	11.68	3.81	399-2105-ND	4.13	30.45	217.50	C340C224K2R5CA
Z5U	100	.47µF	5.08	10.16	11.68	3.81	399-2187-ND	.66	4.83	34.50	C340C474M1U5CA

C340 Series RoHS Compliant

Dielectric	VDC	Cap.	S	Max. L	Max. H	Max. T	Digi-Key Part No.	1	10	100	Kemet Part No.
C0G ±5%	100	.033µF	5.08	10.16	11.68	3.81	399-4435-ND	4.53	33.39	238.50	C340C333J1G5TA
		.047µF	5.08	10.16	11.68	3.81	399-4438-ND	5.06	37.25	266.10	C340C473J1G5TA
		.068µF	5.08	10.16	11.68	3.81	399-4443-ND	5.67	41.75	298.20	C340C683J1G5TA
	200	.022µF	5.08	10.16	11.68	3.81	399-4431-ND	4.53	33.39	238.50	C340C223J2G5TA
		.033µF	5.08	10.16	11.68	3.81	399-4436-ND	5.06	37.25	266.10	C340C333J2G5TA
		.047µF	5.08	10.16	11.68	3.81	399-4439-ND	5.67	41.75	298.20	C340C473J2G5TA
X7R ±10%	50	1.5µF	5.08	10.16	11.68	3.81	399-4429-ND	3.55	26.16	186.88	C340C155K5R5TA
		2.2µF	5.08	10.16	11.68	3.81	399-4433-ND	4.44	32.73	233.75	C340C225K5R5TA
	100	.47µF	5.08	10.16	11.68	3.81	399-4440-ND	1.85	13.65	97.50	C340C474K1R5TA
		.68µF	5.08	10.16	11.68	3.81	399-4444-ND	4.63	34.15	243.90	C340C684K1R5TA
		1µF	5.08	10.16	11.68	3.81	399-4426-ND	4.63	34.15	243.90	C340C105K1R5TA
	200	.1µF	5.08	10.16	11.68	3.81	399-4425-ND	1.00	7.35	52.50	C340C104K2R5TA
		.15µF	5.08	10.16	11.68	3.81	399-4428-ND	4.13	30.45	217.50	C340C154K2R5TA
		.22µF	5.08	10.16	11.68	3.81	399-4432-ND	4.63	34.15	243.90	C340C224K2R5TA
X7R ±20%	500	.22µF	5.08	10.16	11.68	3.81	399-3510-ND	7.60	55.97	399.75	C340C224MCR5TA
Z5U ±20%	50	2.2µF	5.08	10.16	11.68	3.81	399-4434-ND	3.17	23.35	166.75	C340C225M5U5TA
		3.3µF	5.08	10.16	11.68	3.81	399-4437-ND	3.96	29.18	208.45	C340C335M5U5TA
		4.7µF	5.08	10.16	11.68	3.81	399-4442-ND	4.78	35.22	251.58	C340C475M5U5TA
	100	.47µF	5.08	10.16	11.68	3.81	399-4441-ND	.66	4.83	34.50	C340C474M1U5TA
		.68µF	5.08	10.16	11.68	3.81	399-4445-ND	1.78	13.08	93.45	C340C684M1U5TA
		1µF	5.08	10.16	11.68	3.81	399-4427-ND	3.14	23.15	165.33	C340C105M1U5TA
		1.5µF	5.08	10.16	11.68	3.81	399-4430-ND	3.82	28.18	201.25	C340C155M1U5TA

C350 Series RoHS Compliant

Dielectric	VDC	Cap.	S	Max. L	Max. H	Max. T	Digi-Key Part No.	1	10	100	Kemet Part No.
X7R ±10%	500	.1µF	10.16	12.70	14.22	5.08	399-3511-ND	9.72	71.65	511.75	C350C104KCR5TA
		.22µF	10.16	12.70	14.22	5.08	399-3513-ND	13.36	98.46	703.25	C350C224KCR5TA
		.56µF	10.16	12.70	14.22	5.08	399-3516-ND	16.56	121.99	871.35	C350C564KCR5TA
	1000	.22µF	10.16	12.70	14.22	5.08	399-3514-ND	14.16	104.36	745.45	C350C224KDR5TA
X7R ±20%	500	.1µF	10.16	12.70	14.22	5.08	399-3512-ND	9.14	67.35	481.05	C350C104MCR5TA
		.39µF	10.16	12.70	14.22	5.08	399-3515-ND	14.02	103.31	737.90	C350C394MCR5TA
		.56µF	10.16	12.70	14.22	5.08	399-3517-ND	15.56	114.67	819.08	C350C564MCR5TA

Panasonic® Interference Suppressor Capacitors

X-Y Series-Metallized Film

ECQ - UN, EW, UF

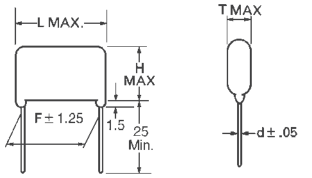

ECQ - UV, UG, UL

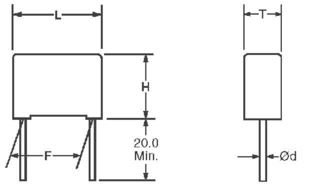

Electrical Specifications:

- **Operating Temperature Range:** -40°C ~ 85°C (-40°C ~ 100°C for ECQ-UG/UL)
- **Capacitance Tolerance:** ±20% (M)
- **Dissipation Factor:** Less than 1.0% (at 20°C 1 kHz)

ECQ-UN Series: Rated Voltage: 250VAC. **Standards: UL (UL 1414);** Across-The-Line Capacitor, Antenna Coupling and Line-By-Pass Capacitors. File No. E62674. **CSA (CSA C22.2);** No. 0-M1982, No. 1-M1981. Across-The-Line, antenna-isolation and line-by-pass capacitor. File No. LR35752. **VDE (VED0565-1);** class X2 File No. 4811.6-4670-1041. **SEV (SEV1055);** class X, Ref No. 89, 5 50251,05. **DEMKO (AFSNIT21);** class X2, Ref No. 70726EC. **SEMKO (SS4430414);** class X2 Reg No. 8602146. **NEMKO (NEMKO);** class X2 Ref No. E 25082 02. **EI (E384-14);** class X2, Reg No. 062521 01~14(0.001~0.012µF), Reg No. 062522 01~15(0.015~0.22µF).

ECQ-EW Series: Rated Voltage: 250VAC. **Standards: UL (UL 1283);** Electromagnetic Interference Filters Class X File No. E79502. **SEMKO (SS 443 04 14);** class X2 Reg No. 8932009. **DEMKO (AFSNIT21);** class X2 Ref No. 94911EC. **VDE (VDE0565-1);** class X2 File No. 4811. 6-4670-1035.

ECQ-UF Series: Rated Voltage: 250VAC **Standards: SEMKO (SEMKO 101)** Reg. No. 61-88271/1-4. **DEMKO (AFSNIT 21);** class Y/X, Ref No. 61254EC. **VDE (VDE 0565-1)** class Y/X2, File No. 4811-6-1-4670-1032. **BSI (BS415);** certified No. 6026. **UL (UL1414)** Across-The-Line Capacitor & Antenna-Coupling and Line-by-pass. File No. E62674. **CSA (CSA C22.2)** No. 0-M1982, No.1-M1981, Across-The-Line, Antenna-Isolation and LIne-by-Pass Capacitor, File No. LR35752.

ECQ-UV Series: Rated Voltage: 250VAC **Standards: UL (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. File No. E62674. **(UL1283);** Electromagnetic Interference Filters, File No. E79502. **CSA (CSA C22.2);** Across-The-Line, Antenna-Isolation and Line-by-Pass Capacitor, No. 0-M1982, No. 1-M1981. **SEMKO (SS 443 04 14);** class X2/Y Reg No. 8804123. **DEMKO (AFSNIT21);** class X2/Y Ref No. 89275EC. **NEMKO (NEMKO 132);** class X2 Ref No. 37892, class Y Ref No. 37894. **EI (IEC 384/14);** class X2/Y Reg No. 110918-01-02. **VDE (VDE 0565-1);** class X2/Y File No. 4811.6-4670-1070. **SEV (SEV 1055);** class X ref No. 88,1 00318,01.

ECQ-UG — Class X2 Series: Rated Voltage: 250/275VAC **Standards: UL (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors. Antenna-Isolation and Line-by-Pass Capacitors. **SEMKO, DEMKO, NEMKO, FIMCO, VDE, SEV;** IEC384-14, 1993, EN132400, Class X2.

ECQ-UG — Class X1 Series: Rated Voltage: 250/300VAC **Standards: UL (UL1414);** Across-The-Line Capacitors, Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors. Antenna-Isolation and Line-by-Pass Capacitors. **FIMCO and VDE;** IEC384-14, 1993, A1 - 1995, EN132400, Class X1.

ECQ-UL Series: Rated Voltage: 250/275VAC **Standards: UL (UL1414);** Across-The-Line Capacitors. Antenna-Coupling and Line-by-Pass Capacitors. **CSA (Standard C22.2 No. 1-94);** Across-The-Line Capacitors., Antenna-Isolation and Line-by-Pass Capacitors. **VDE;** IEC384-14, 1993, EN132400, Class X2.

Volt-age (VAC)	Cap. (µF)	Dimensions (mm)					Digi-Key Part No.	Price Each			Panasonic Part No.
		L	T	H	F	dø		1	10	100	
ECQ-UN											
250	0.0047	17.0	6.5	13.5	13.5	0.6	P4600-ND†	.93	.80	.67	ECQ-U2A472MN
	0.01	17.0	7.0	14.0	13.5	0.6	P4601-ND†	.93	.80	.67	ECQ-U2A103MN
	0.047	25.5	7.0	14.0	21.5	0.6	P4602-ND†	1.18	1.01	.84	ECQ-U2A473MN
	0.1	30.5	7.5	17.01	26.5	0.8	P4603-ND†	1.44	1.24	1.03	ECQ-U2A104MN
ECQ-EW											
250	0.047	17.0	7.5	13.0	13.5	0.6	P4604-ND†	.79	.69	.57	ECQ-E2A473MW
	0.1	24.0	8.0	13.5	20.5	0.8	P4605-ND†	.95	.81	.68	ECQ-E2A104MW
	0.22	24.0	10.5	17.5	20.5	0.8	P4606-ND†	1.34	1.15	.96	ECQ-E2A224MW
	0.47	29.0	13.0	20.5	25.5	0.8	P4607-ND†	1.79	1.54	1.28	ECQ-E2A474MW
ECQ-UF											
250	0.0047	20.0	7.0	14.5	16.5	0.6	P4608-ND†	.90	.78	.65	ECQ-U2A472MF
	0.01	23.0	7.5	15.0	19.5	0.6	P4609-ND†	.95	.81	.68	ECQ-U2A103MF
ECQ-UV											
250	0.001	17.5	4.0	10.5	15.0	0.6	P4617-ND	.76	.66	.55	ECQ-U2A102MV
	0.0012	17.5	4.0	10.5	15.0	0.6	P4618-ND	.76	.66	.55	ECQ-U2A122MV
	0.0015	17.5	4.0	10.5	15.0	0.6	P4619-ND	.76	.66	.55	ECQ-U2A152MV
	0.0018	17.5	4.0	10.5	15.0	0.6	P4620-ND	.76	.66	.55	ECQ-U2A182MV
	0.0022	17.5	4.0	10.5	15.0	0.6	P4621-ND	.76	.66	.55	ECQ-U2A222MV
	0.0027	17.5	4.0	10.5	15.0	0.6	P4622-ND	.76	.66	.55	ECQ-U2A272MV
	0.0033	17.5	4.0	10.5	15.0	0.6	P4623-ND	.76	.66	.55	ECQ-U2A332MV
	0.0039	17.5	4.0	10.5	15.0	0.6	P4624-ND	.76	.66	.55	ECQ-U2A392MV
	0.0047	17.5	4.0	10.5	15.0	0.6	P4625-ND	.76	.66	.55	ECQ-U2A472MV
	0.0056	17.5	4.0	10.5	15.0	0.6	P4626-ND	.76	.66	.55	ECQ-U2A562MV
	0.0068	17.5	4.0	10.5	15.0	0.6	P4627-ND	.76	.66	.55	ECQ-U2A682MV
	0.0082	17.5	4.0	10.5	15.0	0.6	P4628-ND	.76	.66	.55	ECQ-U2A822MV
	0.01	17.5	4.0	10.5	15.0	0.6	P4629-ND	.76	.66	.55	ECQ-U2A103MV
	0.012	17.5	4.0	10.5	15.0	0.6	P4630-ND	.76	.66	.55	ECQ-U2A123MV
	0.015	17.5	4.0	10.5	15.0	0.6	P4631-ND	.76	.66	.55	ECQ-U2A153MV
	0.018	17.5	4.5	10.5	15.0	0.6	P4632-ND	.76	.66	.55	ECQ-U2A183MV
	0.022	17.5	4.5	10.5	15.0	0.6	P4633-ND	.76	.66	.55	ECQ-U2A223MV
	0.027	17.5	4.5	13.0	15.0	0.6	P4634-ND	.76	.66	.55	ECQ-U2A273MV
	0.033	17.5	4.5	13.0	15.0	0.6	P4635-ND	.76	.66	.55	ECQ-U2A333MV
	0.039	17.5	5.5	12.5	15.0	0.6	P4636-ND	.76	.66	.55	ECQ-U2A393MV
	0.047	17.5	5.5	12.5	15.0	0.6	P4637-ND	.90	.77	.65	ECQ-U2A473MV
	0.056	17.5	7.0	14.0	15.0	0.6	P4638-ND	.78	.67	.56	ECQ-U2A563MV
	0.068	17.5	7.0	14.0	15.0	0.6	P4639-ND	.78	.67	.56	ECQ-U2A683MV
	0.082	17.5	8.0	15.0	15.0	0.6	P4640-ND	.78	.67	.56	ECQ-U2A823MV
	0.1	17.5	8.0	15.0	15.0	0.8	P4610-ND	.78	.67	.56	ECQ-U2A104MV
	0.12	25.5	6.5	16.5	22.5	0.6	P4641-ND	1.13	.97	.81	ECQ-U2A124MV
	0.15	25.5	6.5	16.5	22.5	0.8	P4611-ND	1.18	1.02	.85	ECQ-U2A154MV
	0.18	25.5	8.5	17.0	22.5	0.6	P4642-ND	1.18	1.02	.85	ECQ-U2A184MV
	0.22	25.5	8.5	17.0	22.5	0.8	P4612-ND	1.28	1.10	.92	ECQ-U2A224MV
	0.27	30.5	10.0	18.0	27.5	0.6	P4643-ND	1.79	1.54	1.28	ECQ-U2A274MV
	0.33	30.5	10.0	18.0	27.5	0.8	P4613-ND	1.79	1.54	1.29	ECQ-U2A334MV
	0.39	30.5	12.0	20.0	27.5	0.6	P4644-ND	1.79	1.54	1.29	ECQ-U2A394MV
	0.47	30.5	12.0	20.0	27.5	0.8	P4614-ND	2.00	1.72	1.43	ECQ-U2A474MV
	0.56	30.5	13.5	23.5	27.5	0.6	P4645-ND	2.07	1.77	1.48	ECQ-U2A564MV
	0.68	30.5	13.5	23.5	27.5	0.8	P4615-ND	2.36	2.03	1.69	ECQ-U2A684MV
	0.82	30.5	16.5	26.5	27.5	0.6	P4646-ND	2.66	2.28	1.90	ECQ-U2A824MV
	1.0	30.5	16.5	26.5	27.5	0.8	P4616-ND	2.75	2.36	1.97	ECQ-U2A105MV
ECQ-UG — Class X2											
250/ 275	0.033	15.0	6.0	13.0	12.5	0.60	P10520-ND	.94	.81	.64	ECQ-U2A333MG
	0.047	15.0	6.0	13.0	12.5	0.60	P10521-ND	.97	.84	.66	ECQ-U2A473MG
	0.068	15.0	8.0	15.0	12.5	0.60	P10522-ND	1.07	.92	.72	ECQ-U2A683MG
	0.1	15.0	8.0	16.5	12.5	0.60	P10523-ND	1.07	.93	.73	ECQ-U2A104MG
	0.1	17.5	6.0	15.0	15.0	0.80	P10524-ND	.91	.78	.61	ECQ-U2A104BC1
	0.15	17.5	8.0	16.5	15.0	0.80	P10525-ND	1.34	1.15	.90	ECQ-U2A154MG
	0.22	17.5	9.0	17.5	15.0	0.80	P10526-ND	1.39	1.19	.94	ECQ-U2A224MG
	0.33	25.5	9.0	18.5	22.5	0.80	P10527-ND	2.30	1.97	1.55	ECQ-U2A334MG
	0.47	25.5	10.5	20.0	22.5	0.80	P10528-ND	2.35	2.01	1.58	ECQ-U2A474MG
	0.68	25.5	12.5	22.0	22.5	0.80	P10529-ND	3.19	2.74	2.15	ECQ-U2A684MG
	1.0	25.5	15.5	24.5	22.5	0.80	P10530-ND	3.55	3.05	2.39	ECQ-U2A105MG
ECQ-UG — Class X1											
250/ 300	0.01	15.0	5.0	11.5	12.5	0.60	P11110-ND	.37	.32	.25	ECQ-U3A103MG
	0.015	15.0	5.0	11.5	12.5	0.60	P11111-ND	.37	.32	.25	ECQ-U3A153MG
	0.022	15.0	5.0	11.5	12.5	0.60	P11112-ND	.37	.32	.25	ECQ-U3A223MG
	0.033	15.0	6.0	13.0	12.5	0.60	P11113-ND	.37	.32	.25	ECQ-U3A333MG
	0.047	15.0	6.0	13.0	12.5	0.60	P11114-ND	.37	.32	.25	ECQ-U3A473MG
	0.068	15.0	8.0	15.0	12.5	0.60	P11115-ND	.37	.32	.25	ECQ-U3A683MG
	0.1	15.0	8.0	15.0	12.5	0.60	P11116-ND	.37	.32	.25	ECQ-U3A104MG
	0.15	17.5	8.0	16.5	15.0	0.80	P11117-ND	.51	.44	.35	ECQ-U3A154MG
	0.22	17.5	9.0	17.5	15.0	0.80	P11118-ND	.61	.53	.42	ECQ-U3A224MG
	0.33	25.5	9.0	18.5	22.5	0.80	P11119-ND	.92	.79	.62	ECQ-U3A334MG
	0.47	25.5	10.5	20.0	22.5	0.80	P11120-ND	1.22	1.05	.83	ECQ-U3A474MG
	0.68	25.5	12.5	22.0	22.5	0.80	P11121-ND	1.63	1.40	1.10	ECQ-U3A684MG
	1.0	27.0	16.5	25.5	22.5	0.80	P11122-ND	2.03	1.75	1.37	ECQ-U3A105MG
ECQ-UL											
250/ 275	0.001	15.0	5.0	11.5	12.5	0.60	P10988-ND	.20	.18	.14	ECQ-U2A102ML
	0.0012	15.0	5.0	11.5	12.5	0.60	P10989-ND	.20	.18	.14	ECQ-U2A122ML
	0.0015	15.0	5.0	11.5	12.5	0.60	P10990-ND	.20	.18	.14	ECQ-U2A152ML
	0.0018	15.0	5.0	11.5	12.5	0.60	P10991-ND	.20	.18	.14	ECQ-U2A182ML
	0.0022	15.0	5.0	11.5	12.5	0.60	P10992-ND	.20	.18	.14	ECQ-U2A222ML
	0.0027	15.0	5.0	11.5	12.5	0.60	P10993-ND	.20	.18	.14	ECQ-U2A272ML
	0.0033	15.0	5.0	11.5	12.5	0.60	P10994-ND	.20	.18	.14	ECQ-U2A332ML
	0.0039	15.0	5.0	11.5	12.5	0.60	P10995-ND	.20	.18	.14	ECQ-U2A392ML
	0.0047	15.0	5.0	11.5	12.5	0.60	P10996-ND	.20	.18	.14	ECQ-U2A472ML
	0.0056	15.0	5.0	11.5	12.5	0.60	P10997-ND	.20	.18	.14	ECQ-U2A562ML
	0.0068	15.0	5.0	11.5	12.5	0.60	P10998-ND	.20	.18	.14	ECQ-U2A682ML
	0.0082	15.0	5.0	11.5	12.5	0.60	P10999-ND	.20	.18	.14	ECQ-U2A822ML
	0.01	15.0	5.0	11.5	12.5	0.60	P10724-ND	.20	.18	.14	ECQ-U2A103ML
	0.012	15.0	5.0	11.5	12.5	0.60	P11000-ND	.20	.18	.14	ECQ-U2A123ML
	0.015	15.0	5.0	11.5	12.5	0.60	P10725-ND	.20	.18	.14	ECQ-U2A153ML
	0.018	15.0	5.0	13.0	12.5	0.60	P11001-ND	.20	.18	.14	ECQ-U2A183ML
	0.022	15.0	5.0	11.5	12.5	0.60	P10726-ND	.20	.18	.14	ECQ-U2A223ML
	0.027	15.0	5.0	11.5	12.5	0.60	P11002-ND	.20	.18	.14	ECQ-U2A273ML
	0.033	15.0	6.0	13.0	12.5	0.60	P10727-ND	.20	.18	.14	ECQ-U2A333ML
	0.039	15.0	6.0	13.0	12.5	0.60	P11003-ND	.20	.18	.14	ECQ-U2A393ML
	0.047	15.0	6.0	13.0	12.5	0.60	P10728-ND	.20	.18	.14	ECQ-U2A473ML
	0.056	17.5	4.5	11.5	15.0	0.60	P11004-ND	.20	.18	.14	ECQ-U2A563ML
	0.068	17.5	4.5	11.5	15.0	0.60	P10729-ND	.20	.18	.14	ECQ-U2A683ML
	0.082	17.5	5.5	12.0	15.0	0.60	P11005-ND	.20	.18	.14	ECQ-U2A823ML
	0.1	17.5	5.5	12.0	15.0	0.60	P10730-ND	.20	.18	.14	ECQ-U2A104ML
	0.12	17.5	6.5	14.5	15.0	0.60	P11006-ND	.21	.19	.15	ECQ-U2A124ML
	0.15	17.5	6.5	14.5	15.0	0.60	P10731-ND	.23	.20	.16	ECQ-U2A154ML
	0.18	17.5	8.0	16.0	15.0	0.60	P11007-ND	.26	.22	.18	ECQ-U2A184ML
	0.22	17.5	8.0	16.0	15.0	0.60	P10732-ND	.28	.24	.19	ECQ-U2A224ML
	0.27	17.5	9.5	17.5	15.0	0.80	P11008-ND	.33	.28	.22	ECQ-U2A274ML
	0.33	17.5	9.5	17.5	15.0	0.80	P10733-ND	.37	.32	.25	ECQ-U2A334ML
	0.39	25.5	8.5	17.5	22.5	0.80	P11009-ND	.42	.36	.29	ECQ-U2A394ML
	0.47	25.5	8.5	17.5	22.5	0.80	P10734-ND	.47	.40	.32	ECQ-U2A474ML
	0.56	25.5	10.5	19.5	22.5	0.80	P11010-ND	.58	.50	.40	ECQ-U2A564ML
	0.68	25.5	10.5	19.5	22.5	0.80	P10735-ND	.69	.59	.47	ECQ-U2A684ML
	0.82	25.5	12.5	22.0	22.5	0.80	P11011-ND	.72	.63	.49	ECQ-U2A824ML
	1.0	25.5	12.0	22.0	22.5	0.80	P10736-ND	.76	.66	.52	ECQ-U2A105ML
	1.2	30.5	16.5	26.5	27.5	0.80	P11012-ND	.92	.79	.62	ECQ-U2A125ML
	1.5	30.5	16.5	26.5	27.5	0.80	P10737-ND	1.07	.92	.72	ECQ-U2A155ML
	1.8	30.5	19.0	29.5	27.5	0.80	P11013-ND	1.17	1.01	.79	ECQ-U2A185ML
	2.2	30.5	19.0	29.5	27.5	0.80	P10738-ND	1.27	1.10	.86	ECQ-U2A225ML

† P4650-KIT-ND ***Digi-Key® X-Y Series Capacitors Kit*** 10 each of all values denoted. (100 pcs.) Notebook style box included. **$59.95**

Interference Suppression Film Capacitors MKP 338 X1 and MKP 338 X2

Features: • Consists of a low-inductive wound cell of metallized polypropylene film, potted in a flame-retardant case **X1 Applications:** • For X1 electromagnetic interference suppression • Specially designed to meet the requirements of the "IEC 60384-14 2nd edition and EN 132400", requiring a 4kV peak pulse voltage test UL1414 and CSA-C22.2 No. 1 specifications **X2 Applications:** • For X2 electromagnetic interference suppression • Specially designed to meet the requirements of the "IEC 60384-14 2nd edition and EN 132400", requiring for X2 a 2.5kV peak pulse voltage test and both UL1414 and CSA-C22.2 No. 1 specifications **X1 Specifications: Rated (AC) Voltage, 50 to 60Hz:** 440V **Rated (DC) Voltage:** 1000V **Rated Temperature:** 105°C **C-Tol:** ±20% **Safety Class:** X1; across the line **X2 Specifications: Rated (AC) Voltage, 50 to 60Hz:** 275V **Rated (DC) Voltage:** 630V **Rated Temperature:** 105°C **C-Tol:** ±20% **Safety Class:** X2 across the line

Safety Approvals (X1)		Voltage	Value	File Numbers
	UL1414	250V (AC)	10nF to 1μF	E112471
	UL1283 and CSA 22.2.8	440V (AC)	10nF to 1μF	Pending
02	EN132400	440V (AC)	10nF to 1μF	ENEC/B04/2001

Safety Approvals (X2)		Voltage	Value	File Numbers
	UL1414	250V (AC)	1nF to 1μF	E112471
	UL1283	305V (AC)	1nF to 3.3μF	E109565
	CSA-C22.2 No. 1	250V (AC)	1nF to 1μF	1087424 (LR94054-15)
	CSA-C22.2 No. 8	275V (AC)	1nF to 3.3μF	1078568
	CCEE	275V (AC)	1nF to 3.3μF	CH0038043-99
02	EN132400	275V (AC)	1nF to 3.3μF	ENEC/B05/2001

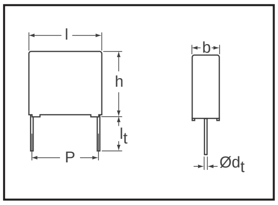

Voltage	Cap. (μF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	ød_t		1	10	100	
MKP 338 X1 Series (±20% Tolerance)												
440 (AC)	.01	5.0	11.0	17.5	15.0	3.5	.60	BC1574-ND	.76	.66	.44	2222 338 10103
	.01	5.0	11.0	17.5	15.0	25.0	.60	BC1587-ND	.76	.66	.44	2222 338 14103
	.015	5.0	11.0	17.5	15.0	3.5	.60	BC1577-ND	.77	.66	.44	2222 338 10153
	.015	5.0	11.0	17.5	15.0	25.0	.60	BC1590-ND	.77	.66	.44	2222 338 14153
	.022	5.0	11.0	17.5	15.0	3.5	.60	BC1579-ND	.78	.67	.45	2222 338 10223
	.022	5.0	11.0	17.5	15.0	25.0	.60	BC1592-ND	.78	.67	.45	2222 338 14223
	.033	6.0	12.0	17.5	15.0	3.5	.60	BC1581-ND	.67	.58	.39	2222 338 10333
	.033	6.0	12.0	17.5	15.0	25.0	.60	BC1594-ND	.67	.58	.39	2222 338 14333
	.047	7.0	13.5	17.5	15.0	3.5	.80	BC1583-ND	.68	.59	.39	2222 338 10473
	.047	7.0	13.5	17.5	15.0	25.0	.80	BC1596-ND	.68	.59	.39	2222 338 14473
	.068	8.5	15.0	17.5	15.0	3.5	.80	BC1585-ND	.70	.61	.41	2222 338 10683
	.068	8.5	15.0	17.5	15.0	25.0	.80	BC1598-ND	.70	.61	.41	2222 338 14683
	.10	10.0	16.5	17.5	15.0	3.5	.80	BC1575-ND	.75	.65	.43	2222 338 10104
	.10	10.0	16.5	17.5	15.0	25.0	.80	BC1588-ND	.75	.65	.43	2222 338 14104
	.15	8.5	18.0	26.0	22.5	3.5	.80	BC1578-ND	.89	.77	.51	2222 338 10154
	.15	8.5	18.0	26.0	22.5	25.0	.80	BC1591-ND	.89	.77	.51	2222 338 14154
	.22	10.0	19.5	26.0	22.5	3.5	.80	BC1580-ND	1.07	.93	.62	2222 338 10224
	.22	10.0	19.5	26.0	22.5	25.0	.80	BC1593-ND	1.07	.93	.62	2222 338 14224
	.33	13.0	23.0	31.0	27.5	3.5	.80	BC1582-ND	1.21	1.04	.70	2222 338 10334
	.33	13.0	23.0	31.0	27.5	25.0	.80	BC1595-ND	1.21	1.04	.70	2222 338 14334
	.47	15.0	25.0	31.0	27.5	3.5	.80	BC1584-ND	.76	.66	.44	2222 338 10474
	.47	15.0	25.0	31.0	27.5	25.0	.80	BC1597-ND	.76	.66	.44	2222 338 14474
	.68	18.0	28.0	31.0	27.5	3.5	.80	BC1586-ND	2.55	2.19	1.46	2222 338 10684
	1.0	21.0	31.0	31.0	27.5	3.5	.80	BC1576-ND	3.20	2.75	1.83	2222 338 10105
	1.0	21.0	31.0	31.0	27.5	25.0	.80	BC1589-ND	3.20	2.75	1.83	2222 338 14105

Voltage	Cap. (μF)	Dimensions (mm)						Digi-Key Part No.	Price Each			BC Components Part No.
		b	h	l	P	l_t	ød_t		1	10	100	
MKP 338 X2 Series (±20% Tolerance)												
275 (AC)	.001	4.0	9.0	10.0	7.5	3.5	.50	BC1599-ND	.35	.30	.20	2222 338 20102
	.0015	4.0	9.0	10.0	7.5	3.5	.50	BC1603-ND	.35	.30	.20	2222 338 20152
	.0022	4.0	9.0	10.0	7.5	3.5	.50	BC1607-ND	.37	.33	.22	2222 338 20222
	.0033	4.0	9.0	10.0	7.5	3.5	.50	BC1611-ND	.40	.35	.23	2222 338 20332
	.0047	4.0	9.0	10.0	7.5	3.5	.50	BC1615-ND	.42	.36	.24	2222 338 20472
	.0068	4.0	9.0	10.0	7.5	3.5	.50	BC1618-ND	.44	.39	.26	2222 338 20682
	.01	4.0	9.0	10.0	7.5	3.5	.50	BC1600-ND	.47	.40	.27	2222 338 20103
	.015	4.0	9.0	10.0	7.5	3.5	.50	BC1604-ND	.47	.41	.27	2222 338 20153
	.022	4.0	9.0	10.0	7.5	3.5	.50	BC1608-ND	.48	.42	.28	2222 338 20223
	.033	5.0	10.5	10.0	7.5	3.5	.50	BC1612-ND	.41	.36	.24	2222 338 20333
	.047	6.0	11.5	10.0	7.5	3.5	.50	BC1616-ND	.42	.36	.24	2222 338 20473
	.068	6.0	12.0	12.5	10.0	3.5	.60	BC1619-ND	.43	.37	.25	2222 338 20683
	.10	6.0	12.0	12.5	10.0	3.5	.60	BC1601-ND	.46	.40	.27	2222 338 20104
	.15	7.0	13.5	17.5	15.0	3.5	.80	BC1605-ND	.49	.42	.28	2222 338 20154
	.22	8.5	15.0	17.5	15.0	3.5	.80	BC1609-ND	.62	.54	.36	2222 338 20224
	.33	10.0	16.5	17.5	15.0	3.5	.80	BC1613-ND	.70	.61	.41	2222 338 20334
	.47	8.5	18.0	26.0	22.5	3.5	.80	BC1617-ND	1.11	.96	.64	2222 338 20474
	.68	10.0	19.5	26.0	22.5	3.5	.80	BC1620-ND	1.49	1.28	.85	2222 338 20684
	1.0	12.0	22.0	26.0	22.5	3.5	.80	BC1602-ND	1.86	1.60	1.07	2222 338 20105
	1.5	15.0	25.0	31.0	27.5	3.5	.80	BC1606-ND	2.46	2.11	1.41	2222 338 20155
	2.2	18.0	28.0	31.0	27.5	3.5	.80	BC1610-ND	2.99	2.56	1.71	2222 338 20225
	3.3	21.0	31.0	31.0	27.5	3.5	.80	BC1614-ND	4.41	3.78	2.52	2222 338 20335

Ceramic Disc Capacitors

EIA Temperature Coefficient Code	C0G	Y5V	Y5P
Capacitance Temperature Coefficient	30PPM/°C	+22%, -82%	±10%
Operating Temperature Range	-25°C ~ 85°C	-30°C ~ 85°C	-30°C ~ 85°C
Tolerance on Capacitance	±5%	+80/-20%	±10%
Q Factor	C ≥ 30pF Q ≥ 1000 C < 30pF: Q ≥ 400 +20°C	— —	— —
Dissipation Factor	—	4.0% maximum	2.5% maximum
Insulation Resistance	10000MΩ	10000MΩ minimum	10000MΩ minimum

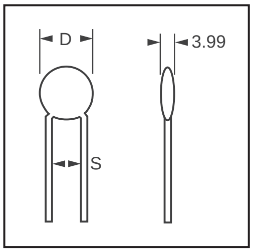

Tolerance	Dim. (mm)		Cap. Value	Digi-Key Part No.	Pricing				BC Components Part No.
	D	S			10	100	500	1,000	
Type C0G, 100V									
±.5	5.00	6.35	10pF	1426PH-ND◊	1.60	12.54	45.60	67.20	D100D20C0GH63L6R
5%	5.00	6.35	15pF	1427PH-ND◊	.93	7.34	26.70	39.35	D150J20C0GH63L6R
5%	5.00	6.35	18pF	1428PH-ND◊	.93	7.34	26.70	39.35	D180J20C0GH63L6R
5%	5.00	6.35	22pF	1429PH-ND◊	.93	7.34	26.70	39.35	D220J20C0GH63L6R
5%	5.00	6.35	27pF	1430PH-ND◊	.93	7.34	26.70	39.35	D270J20C0GH63L6R
5%	5.00	6.35	33pF	1431PH-ND◊	.93	7.34	26.70	39.35	D330J20C0GH63L6R
5%	6.50	6.35	56pF	1335PH-ND	.84	6.60	24.00	35.00	D560J25C0GH63L6
5%	6.50	6.35	56pF	1433PH-ND◊	1.19	9.35	34.00	50.11	D560J25C0GH63L6R
5%	6.50	6.35	68pF	1336PH-ND	1.72	13.48	49.00	72.00	D680J25C0GH63L6
5%	6.50	6.35	68pF	1434PH-ND◊	1.19	9.35	34.00	50.11	D680J25C0GH63L6R
5%	7.37	6.35	100pF	1435PH-ND◊	1.28	10.09	36.70	54.08	D101J29C0GH63L6R
5%	7.37	6.35	120pF	1436PH-ND◊	1.61	12.68	46.10	67.94	D121J33C0GH63L6R
5%	10.01	6.35	150pF	1340PH-ND	1.75	13.75	50.00	74.00	D151J33C0GH63L6
5%	10.01	6.35	220pF	1438PH-ND◊	1.61	12.68	46.10	67.94	D221J39C0GH63L6R
Type C0G, 500V									
5%	5.00	6.35	15pF	1439PH-ND◊	1.62	12.71	46.20	68.08	D150J20C0GL63L6R
5%	6.50	6.35	22pF	1358PH-ND	1.37	10.73	39.00	57.00	D220J25C0GL63L6
5%	6.50	6.35	22pF	1440PH-ND◊	1.62	12.71	46.20	68.08	D220J25C0GL63L6R
Type Y5P, 100V									
10%	5.00	6.35	100pF	1441PH-ND◊	.83	6.49	23.60	34.78	D101K20Y5PH63L6R
10%	5.00	6.35	220pF	1442PH-ND◊	.83	6.49	23.60	34.78	D221K20Y5PH63L6R
10%	5.00	6.35	330pF	1377PH-ND	1.37	10.73	39.00	57.00	D331K20Y5PH63L6
10%	5.00	6.35	330pF	1443PH-ND◊	.83	6.49	23.60	34.78	D331K20Y5PH63L6R
10%	5.00	6.35	470pF	1444PH-ND◊	.83	6.49	23.60	34.78	D471K20Y5PH63L6R
10%	5.00	6.35	1000pF	1445PH-ND◊	.83	6.49	23.60	34.78	D102K20Y5PH63L6R

Tolerance	Dim. (mm)		Cap. Value	Digi-Key Part No.	Pricing				BC Components Part No.
	D	S			10	100	500	1,000	
10%	6.50	6.35	2200pF	1446PH-ND◊	.83	6.49	23.60	34.78	D222K25Y5PH63L6R
10%	8.83	6.35	2700pF	1447PH-ND◊	1.97	15.51	56.40	83.12	D272K33Y5PL63L6R
10%	7.37	6.35	3300pF	1389PH-ND	1.82	14.30	52.00	77.00	D332K29Y5PH63L6
10%	7.37	6.35	3300pF	1448PH-ND◊	1.03	8.11	29.50	43.47	D332K29Y5PH63L6R
10%	8.83	6.35	4700pF	1391PH-ND	1.10	8.61	31.30	46.00	D472K33Y5PH63L6
10%	8.83	6.35	4700pF	1449PH-ND◊	1.03	8.11	29.50	43.47	D472K33Y5PH63L6R
Type Y5V, 100V									
+80/-20	5.00	6.35	1500pF	1395PH-ND	.77	6.05	22.00	32.00	D152Z20Y5VH63L6
Type Y5P, 500V									
10%	5.00	6.35	100pF	1401PH-ND	1.37	10.73	39.00	57.00	D101K20Y5PL63L6
10%	5.00	6.35	100pF	1451PH-ND◊	1.34	10.51	38.20	56.29	D101K20Y5PL63L6R
10%	5.00	6.35	150pF	1402PH-ND	1.37	10.73	39.00	57.00	D151K20Y5PL63L6
10%	5.00	6.35	150pF	1452PH-ND◊	1.34	10.51	38.20	56.29	D151K20Y5PL63L6R
10%	5.00	6.35	220pF	1404PH-ND	1.37	10.73	39.00	57.00	D221K20Y5PL63L6
10%	5.00	6.35	220pF	1453PH-ND◊	1.34	10.51	38.20	56.29	D221K20Y5PL63L6R
10%	5.00	6.35	330pF	1406PH-ND	1.37	10.73	39.00	57.00	D331K20Y5PL63L6
10%	5.00	6.35	330pF	1455PH-ND◊	1.34	10.51	38.20	56.29	D331K20Y5PL63L6R
10%	5.00	6.35	470pF	1408PH-ND	1.37	10.73	39.00	57.00	D471K20Y5PL63L6
10%	5.00	6.35	470pF	1456PH-ND◊	1.34	10.51	38.20	56.29	D471K20Y5PL63L6R
10%	6.50	6.35	1000pF	1412PH-ND	1.61	12.65	46.00	68.00	D102K25Y5PL63L6
10%	6.50	6.35	1000pF	1457PH-ND◊	1.48	11.66	42.40	62.48	D102K25Y5PL63L6R
10%	9.91	9.52	2200pF	1458PH-ND◊	.66	5.17	18.80	27.71	D222K33Y5PL63L0R
10%	11.99	9.52	3300pF	1417PH-ND	1.72	13.48	49.00	72.00	D332K39Y5PL63L0
10%	17.53	9.52	0.01μF	1424PH-ND	3.05	23.93	87.00	128.00	D103K69Y5PL63L0
10%	17.53	9.52	0.01μF	1460PH-ND◊	1.40	11.00	40.00	58.95	D103K69Y5PL63L0R

◊ ***RoHS Compliant***

EPCOS

Multilayer Ceramic Capacitors

COG
Features: • Good thermal stability • High insulation resistance • Low dissipation factor • Low inductance **Applications**: • Resonant circuits • Timing elements • Coupling and filtering, particularly in RF circuits **Electrical Data**: • Dielectric: Class 1 • Operating temperature range: -55°C ~ 125°C

X7R
Features: • High volumetric efficiency • Non-linear capacitance change • High insulation resistance • High pulse strength **Applications**: • Blocking • Coupling • Decoupling • Interference suppression **Electrical Data**: • Standard: EIA • Dielectric: Class 2 • Operating temperature range: -55°C ~ 125°C

Z5U (Y5U)
Features: • Extremely high volumetric efficiency • Non-linear capacitance change • Y5U characteristic is also fulfilled **Applications**: • Blocking • Coupling • Decoupling • Interference suppression **Electrical Data**: • Standard: EIA • Dielectric: Class 2 • Operating temperature range: -30°C ~ 85°C

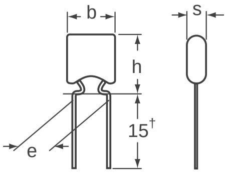

† Bulk parts have 30mm lead length

Type-Tol.	VDC	Cap.	Dimensions(mm)				Digi-Key Part No.	Bulk Pricing			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No	Ammo Pack	
			h	b	s	e		1	10	100		10	100	1,000		Size	Pricing
COG 5%	100	10pF	5.5	5.0	2.5	2.5	P4837-ND	.38	2.56	18.03	495-1000-1-ND	1.64	12.51	86.63	495-1000-3-ND	2,500	57.76/M
	100	12pF	5.5	5.0	2.5	2.5	P4838-ND	.38	2.56	18.03	495-1001-1-ND	1.64	12.51	86.63	495-1001-3-ND	2,500	57.76/M
	100	15pF	5.5	5.0	2.5	2.5	P4839-ND	.14	.93	6.55	495-1002-1-ND	1.64	12.51	86.63	495-1002-3-ND	2,500	57.76/M
	100	18pF	5.5	5.0	2.5	2.5	P4840-ND	.38	2.56	18.03	495-1003-1-ND	1.64	12.51	86.63	495-1003-3-ND	2,500	57.76/M
	100	22pF	5.5	5.0	2.5	2.5	P4841-ND	.38	2.56	18.03	495-1004-1-ND	.82	6.24	43.20	495-1004-3-ND	2,500	28.80/M
	100	27pF	5.5	5.0	2.5	2.5	P4842-ND	.11	.75	5.28	495-1005-1-ND	1.64	12.51	86.63	495-1005-3-ND	2,500	57.76/M
	100	33pF	5.5	5.0	2.5	2.5	P4843-ND	.38	2.56	18.03	495-1006-1-ND	1.64	12.51	86.63	495-1006-3-ND	2,500	57.76/M
	100	39pF	5.5	5.0	2.5	2.5	—	—	—	—	495-1007-1-ND	1.64	12.51	86.63	495-1007-3-ND	2,500	57.76/M
	100	47pF	5.5	5.0	2.5	2.5	P4845-ND	.38	2.56	18.03	495-1008-1-ND	1.64	12.51	86.63	495-1008-3-ND	2,500	57.76/M
	100	56pF	5.5	5.0	2.5	2.5	P4846-ND	.38	2.56	18.03	495-1009-1-ND	1.64	12.51	86.63	495-1009-3-ND	2,500	57.76/M
	100	68pF	5.5	5.0	2.5	2.5	P4847-ND	.38	2.56	18.03	495-1010-1-ND	1.64	12.51	86.63	495-1010-3-ND	2,500	57.76/M
	100	82pF	5.5	5.0	2.5	2.5	P4848-ND	.38	2.56	18.03	495-1011-1-ND	1.64	12.51	86.63	495-1011-3-ND	2,500	57.76/M
	100	100pF	5.5	5.0	2.5	2.5	P4849-ND	.11	.75	5.28	495-1012-1-ND	1.64	12.51	86.63	495-1012-3-ND	2,500	57.76/M
	100	120pF	5.5	5.0	2.5	2.5	P4850-ND	.38	2.56	18.03	495-1483-1-ND	1.64	12.51	86.63	495-1483-3-ND	2,500	57.76/M
	100	150pF	5.5	5.0	2.5	2.5	P4851-ND	.38	2.56	18.03	495-1013-1-ND	1.64	12.51	86.63	495-1013-3-ND	2,500	57.76/M
	100	180pF	5.5	5.0	2.5	2.5	P4852-ND	.38	2.56	18.03	495-1484-1-ND	1.64	12.51	86.63	495-1484-3-ND	2,500	57.76/M
	100	220pF	5.5	5.0	2.5	5.0	P4853-ND	.50	3.41	24.04	495-1014-1-ND	2.30	17.58	121.73	495-1014-3-ND	2,500	81.16/M
	100	270pF	5.5	5.0	2.5	5.0	P4854-ND	.50	3.41	24.04	495-1015-1-ND	2.30	17.58	121.73	495-1015-3-ND	2,500	81.16/M
	100	330pF	5.5	5.0	2.5	5.0	P4855-ND	.50	3.41	24.04	495-1016-1-ND	2.30	17.58	121.73	495-1016-3-ND	2,500	81.16/M
	100	390pF	5.5	5.0	2.5	2.5	P4856-ND	.50	3.41	24.04	495-1485-1-ND	2.30	17.58	121.73	495-1485-3-ND	2,500	81.16/M
	100	470pF	5.5	5.0	2.5	5.0	P4857-ND	.31	2.11	14.85	495-1017-1-ND	2.30	17.58	121.73	495-1017-3-ND	2,500	81.16/M
	100	560pF	5.5	5.0	2.5	2.5	P4858-ND	.49	3.62	25.88	495-1486-1-ND	2.59	19.83	137.25	495-1486-3-ND	2,500	91.50/M
	100	680pF	5.5	5.0	2.5	5.0	P4859-ND	.11	.82	5.85	495-1018-1-ND	2.59	19.83	137.25	495-1018-3-ND	2,500	91.50/M
	100	820pF	5.5	5.0	2.5	5.0	P4860-ND	.57	4.23	30.19	495-1019-1-ND	3.06	23.40	162.00	495-1019-3-ND	2,500	108.00/M
	100	1000pF	5.5	5.0	2.5	5.0	P4861-ND	.57	4.23	30.19	495-1020-1-ND	3.06	23.40	162.00	495-1020-3-ND	2,500	108.00/M
	100	1200pF	6.5	5.0	2.5	5.0	—	—	—	—	495-1021-1-ND	3.73	28.50	197.33	495-1021-3-ND	2,500	131.56/M
	100	1500pF	6.5	5.0	2.5	5.0	P4863-ND	.69	5.07	36.23	495-1022-1-ND	3.73	28.50	197.33	495-1022-3-ND	2,500	131.56/M
	100	1800pF	6.5	5.0	2.5	5.0	—	—	—	—	495-1023-1-ND	7.04	53.85	372.83	495-1023-3-ND	2,500	248.56/M
	100	2200pF	6.5	5.0	2.5	5.0	P4865-ND	1.25	9.31	68.37	495-1024-1-ND	7.04	53.85	372.83	495-1024-3-ND	2,500	248.56/M
	50	100pF	5.5	5.0	2.5	2.5	P4925-ND	.14	.93	6.55	495-1025-1-ND	1.01	7.74	53.55	495-1025-3-ND	2,500	35.70/M
	50	120pF	5.5	5.0	2.5	2.5	P4926-ND	.38	2.56	18.03	495-1026-1-ND	1.64	12.51	86.63	495-1026-3-ND	2,500	57.76/M
	50	150pF	5.5	5.0	2.5	2.5	P4927-ND	.38	2.56	18.03	495-1027-1-ND	1.64	12.51	86.63	495-1027-2-ND‡	2,500	57.76/M
	50	180pF	5.5	5.0	2.5	2.5	P4928-ND	.38	2.56	18.03	495-1028-1-ND	1.64	12.51	86.63	495-1028-2-ND‡	2,500	57.76/M
	50	220pF	5.5	5.0	2.5	2.5	P4929-ND	.14	.93	6.55	495-1029-1-ND	1.64	12.51	86.63	495-1029-3-ND	2,500	57.76/M
	50	270pF	5.5	5.0	2.5	2.5	P4930-ND	.38	2.56	18.03	495-1489-1-ND	1.64	12.51	86.63	495-1489-2-ND‡	2,500	57.76/M
	50	330pF	5.5	5.0	2.5	2.5	P4931-ND	.38	2.56	18.03	495-1030-1-ND	1.64	12.51	86.63	495-1030-2-ND‡	2,500	57.76/M
	50	390pF	5.5	5.0	2.5	2.5	P4932-ND	.44	3.00	21.19	495-1031-1-ND	1.88	14.40	99.68	495-1031-2-ND‡	2,500	66.46/M
	50	470pF	5.5	5.0	2.5	2.5	P4933-ND	.44	3.00	21.19	495-1032-1-ND	1.88	14.40	99.68	495-1032-3-ND	2,500	66.46/M
	50	560pF	5.5	5.0	2.5	2.5	P4934-ND	.44	3.00	21.19	495-1033-1-ND	2.13	16.25	112.50	495-1033-2-ND‡	2,500	75.00/M
	50	680pF	5.5	5.0	2.5	5.0	P4935-ND	.28	2.03	14.50	495-1034-1-ND	2.48	18.95	131.18	495-1034-3-ND	2,500	87.46/M
	50	820pF	5.5	5.0	2.5	5.0	P4936-ND	.46	3.38	24.15	495-1035-1-ND	2.48	18.95	131.18	495-1035-3-ND	2,500	87.46/M
	50	1000pF	5.5	5.0	2.5	5.0	P4937-ND	.12	.90	6.43	495-1036-1-ND	2.48	18.95	131.18	495-1036-3-ND	2,500	87.46/M
	50	1200pF	5.5	5.0	2.5	5.0	P4938-ND	.55	4.07	29.04	—	—	—	—	—	—	—
	50	1500pF	5.5	5.0	2.5	5.0	P4939-ND	.55	4.07	29.04	495-1038-1-ND	2.94	22.49	155.70	495-1038-3-ND	2,500	103.80/M
	50	1800pF	5.5	5.0	2.5	5.0	P4940-ND	.68	4.99	35.65	495-1039-1-ND	3.54	27.04	187.20	495-1039-2-ND‡	2,500	124.80/M
	50	2200pF	5.5	5.0	2.5	5.0	P4941-ND	.68	4.99	35.65	495-1040-1-ND	1.64	12.51	86.63	495-1040-3-ND	2,500	57.76/M
	50	2700pF	6.5	5.0	2.5	5.0	P4942-ND	.82	6.07	44.59	495-1041-1-ND	4.72	36.11	249.98	495-1041-3-ND	2,500	166.66/M
	50	3300pF	6.5	5.0	2.5	5.0	P4943-ND	.20	1.49	10.97	495-1042-1-ND	4.72	36.11	249.98	495-1042-3-ND	2,500	166.66/M
	50	4700pF	6.5	5.0	2.5	5.0	P4944-ND	1.00	7.43	54.59	495-1043-1-ND	5.72	43.71	302.63	495-1043-3-ND	2,500	201.76/M
	50	5600pF	6.5	5.0	2.5	5.0	P4945-ND	1.63	12.21	91.60	495-1044-1-ND	10.24	78.33	542.25	495-1044-3-ND	2,500	361.50/M
	50	6800pF	6.5	5.0	2.5	5.0	P4946-ND	1.63	12.21	91.60	495-1045-1-ND	10.24	78.33	542.25	495-1045-3-ND	2,500	361.50/M
	50	8200pF	6.5	5.0	2.5	5.0	—	—	—	—	495-1046-1-ND	11.77	90.03	623.25	495-1046-3-ND	2,500	415.50/M
	50	10000pF	6.5	5.0	2.5	5.0	P4948-ND	.34	2.55	19.13	495-1047-1-ND	3.61	27.63	191.25	495-1047-3-ND	2,500	127.50/M
X7R 10%	100	470pF	5.5	5.0	2.5	2.5	—	—	—	—	495-1048-1-ND*	1.47	11.28	78.08	495-1048-3-ND*	2,500	52.06/M
	100	680pF	5.5	5.0	2.5	2.5	P4897-ND	.35	2.38	16.76	495-1049-1-ND	1.47	11.28	78.08	495-1049-3-ND	2,500	52.06/M
	100	1000pF	5.5	5.0	2.5	2.5	P4898-ND	.13	.87	6.16	495-1050-1-ND	.95	7.28	50.40	495-1050-3-ND	2,500	33.60/M
	100	1500pF	5.5	5.0	2.5	2.5	P4899-ND	.35	2.38	16.76	495-1051-1-ND	1.47	11.28	78.08	495-1051-3-ND	2,500	52.06/M
	100	2200pF	5.5	5.0	2.5	2.5	P4900-ND	.35	2.38	16.76	495-1487-1-ND	1.47	11.28	78.08	495-1487-3-ND	2,500	52.06/M
	100	3300pF	5.5	5.0	2.5	2.5	P4901-ND	.35	2.38	16.76	495-1052-1-ND	1.47	11.28	78.08	495-1052-3-ND	2,500	52.06/M
	100	4700pF	5.5	5.0	2.5	2.5	P4902-ND	.13	.91	6.44	495-1053-1-ND	1.47	11.28	78.08	495-1053-3-ND	2,500	52.06/M
	100	6800pF	5.5	5.0	2.5	2.5	P4903-ND	.44	3.00	21.19	495-1054-1-ND	1.89	14.43	99.90	495-1054-3-ND	2,500	66.60/M
	100	10000pF	5.5	5.0	2.5	2.5	P4904-ND	.13	.91	6.44	495-1055-1-ND	1.89	14.43	99.90	495-1055-3-ND	2,500	66.60/M
	100	15000pF	5.5	5.0	2.5	2.5	P4905-ND	.60	4.05	26.20	495-1488-1-ND	1.89	14.43	99.90	495-1488-3-ND	2,500	66.60/M
	100	22000pF	6.5	5.0	2.5	2.5	P4906-ND	.17	1.16	8.20	495-1056-1-ND	2.10	16.02	110.93	495-1056-3-ND	2,500	73.96/M
	100	33000pF	6.5	5.0	2.5	2.5	P4907-ND	.54	3.68	25.93	495-1057-1-ND	2.30	17.58	121.73	495-1057-3-ND	2,500	81.16/M
	100	47000pF	6.5	5.0	2.5	2.5	P4908-ND	.17	1.24	8.88	495-1058-1-ND	2.78	21.26	147.15	495-1058-3-ND	2,500	98.10/M
	100	68000pF	6.5	5.0	2.5	2.5	P4909-ND	.60	4.39	31.34	495-1059-1-ND	3.47	26.52	183.60	495-1059-3-ND	2,500	122.40/M
	100	.1uF	6.5	5.0	2.5	2.5	P4910-ND	.23	1.67	11.93	495-1060-1-ND	4.16	31.82	220.28	495-1060-3-ND	2,500	146.86/M
	100	.15uF	6.5	5.0	2.5	5.0	P4911-ND	1.24	9.20	67.56	495-1061-1-ND	2.26	17.29	119.70	495-1061-3-ND	2,500	79.80/M
	50	3300pF	5.5	5.0	2.5	2.5	P4949-ND	.35	2.38	16.76	495-1062-1-ND	1.40	10.73	74.25	495-1062-2-ND‡	2,500	49.50/M
	50	4700pF	5.5	5.0	2.5	2.5	P4950-ND	.35	2.38	16.76	495-1063-1-ND	1.40	10.73	74.25	495-1063-3-ND	2,500	49.50/M
	50	6800pF	5.5	5.0	2.5	2.5	P4951-ND	.35	2.38	16.76	—	—	—	—	—	—	
	50	10000pF	5.5	5.0	2.5	2.5	P4922-ND	.13	.87	6.16	495-1065-1-ND	.95	7.28	50.40	495-1065-3-ND	2,500	33.60/M
	50	15000pF	5.5	5.0	2.5	2.5	P4952-ND	.35	2.38	16.76	495-1066-1-ND	1.40	10.73	74.25	495-1066-3-ND	2,500	49.50/M
	50	22000pF	5.5	5.0	2.5	2.5	P4953-ND	.13	.91	6.44	495-1067-1-ND	.99	7.61	52.65	495-1067-3-ND	2,500	35.10/M
	50	33000pF	5.5	5.0	2.5	5.0	P4954-ND	.49	3.32	23.40	495-1068-1-ND	2.08	15.93	110.25	495-1068-3-ND	2,500	73.50/M
	50	47000pF	5.5	5.0	2.5	5.0	P4955-ND	.16	1.05	7.43	495-1069-1-ND	2.08	15.93	110.25	495-1069-3-ND	2,500	73.50/M
	50	68000pF	6.5	5.0	2.5	5.0	P4956-ND	.48	3.54	25.30	495-1070-1-ND	2.55	19.50	135.00	495-1070-3-ND	2,500	90.00/M
	50	.1uF	6.5	5.0	2.5	5.0	P4923-ND	.12	.88	6.30	495-1071-1-ND	1.07	8.19	56.70	495-1071-3-ND	2,500	37.80/M
	50	.15uF	6.5	5.0	2.5	5.0	P13014-ND†	.40	2.73	19.25	—	—	—	—	—	—	—
	50	.15uF	6.5	5.0	2.5	5.0	P4957-ND	.65	4.78	34.16	495-1072-1-ND	4.34	33.15	229.50	495-1072-3-ND	2,500	153.00/M
	50	.22uF	6.5	5.0	2.5	5.0	P4958-ND	.26	1.91	14.05	495-1073-1-ND	7.09	54.21	375.30	495-1073-3-ND	2,500	250.20/M
	50	.33uF	9.0	7.5	2.5	5.0	P4959-ND	1.45	10.82	79.45	495-1074-1-ND	8.64	66.11	457.65	495-1074-3-ND	2,000	305.10/M
	50	.47uF	9.0	7.5	2.5	5.0	P4960-ND	.42	3.14	23.51	495-1075-1-ND	11.22	85.80	594.00	495-1075-3-ND	2,000	396.00/M
	50	.68uF	9.0	7.5	2.5	5.0	P4961-ND	2.42	18.11	135.84	495-1076-1-ND	6.74	51.58	357.08	495-1076-3-ND	2,000	238.05/M
	50	1.0uF	9.0	7.5	2.5	5.0	P4962-ND	.67	5.10	38.46	495-1077-1-ND	22.95	175.50	1215.00	495-1077-3-ND	2,000	810.00/M
Z5U (Y5U) 20%	50	10000pF	5.5	5.0	2.5	2.5	P4963-ND	.12	.80	5.64	495-1078-1-ND	1.40	10.73	74.25	495-1078-3-ND	2,500	49.50/M
	50	22000pF	5.5	5.0	2.5	2.5	P4964-ND	.32	2.15	15.18	495-1079-1-ND	1.40	10.73	74.25	495-1079-3-ND	2,500	49.50/M
	50	47000pF	5.5	5.0	2.5	2.5	P4965-ND	.37	2.51	17.71	495-1080-1-ND	1.62	12.42	85.95	495-1080-3-ND	2,500	57.30/M
	50	.1uF	5.5	5.0	2.5	2.5	P4924-ND	.15	1.02	7.21	495-1081-1-ND	1.84	14.11	97.65	495-1081-3-ND	2,500	65.10/M
	50	.22uF	6.5	5.0	2.5	2.5	P4966-ND	.19	1.40	10.03	495-1082-1-ND	1.70	13.03	90.23	495-1082-3-ND	2,500	60.16/M
	50	.47uF	6.5	5.0	2.5	5.0	P4967-ND	.99	7.36	54.05	495-1083-1-ND	1.11	8.52	58.95	495-1083-3-ND	2,500	39.30/M
	50	1.0uF	6.5	5.0	2.5	5.0	P4968-ND	.35	2.60	19.11	495-1490-1-ND	8.49	64.90	449.33	495-1490-3-ND	2,500	299.56/M
	50	2.2uF	9.0	7.5	2.5	5.0	P4969-ND	3.24	24.56	185.38	495-1084-1-ND	23.42	179.08	1239.75	495-1084-3-ND	2,000	826.50/M

‡ Tape and Reel * 20% tolerance

SpinGuard® Axial Leaded Ceramic Capacitors

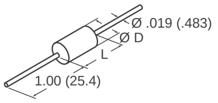

The SpinGuard series is the industry leading conformally coated axial leaded multilayer capacitor.

Applications: • Decoupling • Filtering

Dielec-tric	VDC	Cap.	Cap. Tol. (%)	Dimensions - Inch (mm)		Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		AVX Part No.
				L Maximum	D Maximum		1	10	100	1000		Size	Pricing	
C0G	200	22pF	±5	.170 (4.32)	.100 (2.54)	478-2426-1-ND	.16	1.53	11.05	76.50	478-2426-2-ND	7,500	51.00/M	SA102A220JAA
	200	22pF	±5	.170 (4.32)	.100 (2.54)	478-3142-1-ND§	.16	1.53	11.05	76.50	478-3142-2-ND§	7,500	51.00/M	SA102A220JAR
	200	100pF	±5	.170 (4.32)	.100 (2.54)	478-2425-1-ND	.16	1.53	11.05	76.50	478-2425-2-ND	7,500	51.00/M	SA102A101JAA
	200	100pF	±5	.170 (4.32)	.100 (2.54)	478-3141-1-ND§	.16	1.53	11.05	76.50	478-3141-2-ND§	7,500	51.00/M	SA102A101JAR
	50	1000pF	±5	.170 (4.32)	.100 (2.54)	478-2431-1-ND	.19	1.80	13.00	90.00	478-2431-2-ND	7,500	60.00/M	SA105A102JAA
	50	1000pF	±5	.170 (4.32)	.100 (2.54)	478-3147-1-ND§	.19	1.80	13.00	90.00	478-3147-2-ND§	7,500	60.00/M	SA105A102JAR
X7R	100	1000pF	±10	.170 (4.32)	.100 (2.54)	478-2427-1-ND	.13	1.26	9.10	63.00	478-2427-2-ND	7,500	42.00/M	SA101C102KAA
	100	1000pF	±10	.170 (4.32)	.100 (2.54)	478-3143-1-ND§	.13	1.26	9.10	63.00	478-3143-2-ND§	7,500	42.00/M	SA101C102KAR
	100	10000pF	±10	.170 (4.32)	.100 (2.54)	478-2428-1-ND	.13	1.26	9.10	63.00	478-2428-2-ND	7,500	42.00/M	SA101C103KAA
	100	10000pF	±10	.170 (4.32)	.100 (2.54)	478-3144-1-ND§	.13	1.26	9.10	63.00	478-3144-2-ND§	7,500	42.00/M	SA101C103KAR
	100	56000pF	±10	.290 (7.37)	.150 (3.81)	478-2429-1-ND	.31	2.93	21.13	146.25	478-2429-2-ND	5,000	98.00/M	SA301C563KAA
	100	56000pF	±10	.290 (7.37)	.150 (3.81)	478-3145-1-ND§	.31	2.93	21.13	146.25	478-3145-2-ND§	5,000	98.00/M	SA301C563KAR
	100	.10µF	±10	.290 (7.37)	.150 (3.81)	478-2430-1-ND	.32	3.06	22.10	153.00	478-2430-2-ND	5,000	102.00/M	SA301C104KAA
	100	.10µF	±10	.290 (7.37)	.150 (3.81)	478-3146-1-ND§	.32	3.06	22.10	153.00	478-3146-2-ND§	5,000	102.00/M	SA301C104KAR
	50	10000pF	±10	.170 (4.32)	.100 (2.54)	478-2432-1-ND	.13	1.22	8.78	60.75	478-2432-2-ND	7,500	41.00/M	SA105C103KAA
	50	10000pF	±10	.170 (4.32)	.100 (2.54)	478-3148-1-ND§	.13	1.22	8.78	60.75	478-3148-2-ND§	7,500	41.00/M	SA105C103KAR
	50	47000pF	±10	.170 (4.32)	.100 (2.54)	478-2433-1-ND	.18	1.67	12.03	83.25	478-2433-2-ND	7,500	56.00/M	SA105C473KAA
	50	47000pF	±10	.170 (4.32)	.100 (2.54)	478-3149-1-ND§	.18	1.67	12.03	83.25	478-3149-2-ND§	7,500	56.00/M	SA105C473KAR
	50	.10µF	±10	.170 (4.32)	.100 (2.54)	478-2434-1-ND	.14	1.35	9.75	67.50	—	—	—	SA105C104KAA
	50	.10µF	±10	.170 (4.32)	.100 (2.54)	478-3150-1-ND§	.14	1.35	9.75	67.50	478-3150-2-ND§	7,500	45.00/M	SA105C104KAR
	50	.10µF	±10	.170 (4.32)	.120 (3.05)	478-2435-1-ND	.16	1.53	11.05	76.50	—	—	—	SA115C104KAA
	50	.10µF	±10	.170 (4.32)	.120 (3.05)	478-3151-1-ND§	.16	1.53	11.05	76.50	478-3151-2-ND§	5,000	51.00/M	SA115C104KAR
	50	.10µF	±10	.260 (6.60)	.100 (2.54)	478-2436-1-ND	.21	2.03	14.63	101.25	478-2436-2-ND	5,000	68.00/M	SA205C104KAA
	50	.10µF	±10	.260 (6.60)	.100 (2.54)	478-3152-1-ND§	.21	2.03	14.63	101.25	478-3152-2-ND§	5,000	68.00/M	SA205C104KAR
	50	.22µF	±10	.290 (7.37)	.150 (3.81)	478-2437-1-ND	.53	5.04	36.40	252.00	—	—	—	SA305C224KAA
	50	.22µF	±10	.290 (7.37)	.150 (3.81)	478-3153-1-ND§	.53	5.04	36.40	252.00	478-3153-2-ND§	5,000	168.00/M	SA305C224KAR
Z5U	100	.10µF	±20	.170 (4.32)	.120 (3.05)	478-2438-1-ND	.13	1.26	9.10	63.00	478-2438-2-ND	5,000	42.00/M	SA111E104MAA
	100	.10µF	±20	.170 (4.32)	.120 (3.05)	478-3154-1-ND§	.13	1.26	9.10	63.00	478-3154-2-ND§	5,000	42.00/M	SA111E104MAR
	50	10000pF	±20	.170 (4.32)	.100 (2.54)	478-2439-1-ND	.13	1.26	9.10	63.00	—	—	—	SA105E103MAA
	50	10000pF	±20	.170 (4.32)	.100 (2.54)	478-3155-1-ND§	.13	1.26	9.10	63.00	478-3155-2-ND§	7,500	42.00/M	SA105E103MAR
	50	.10µF	±20	.170 (4.32)	.100 (2.54)	478-2440-1-ND	.13	1.26	9.10	63.00	478-2440-2-ND	7,500	42.00/M	SA105E104MAA
	50	.10µF	±20	.170 (4.32)	.100 (2.54)	478-3156-1-ND§	.13	1.26	9.10	63.00	478-3156-2-ND§	7,500	42.00/M	SA105E104MAR
	50	.10µF	+80/-20	.170 (4.32)	.100 (2.54)	478-2441-1-ND	.13	1.26	9.10	63.00	—	—	—	SA105E104ZAA
	50	.10µF	+80/-20	.170 (4.32)	.100 (2.54)	478-3157-1-ND§	.13	1.26	9.10	63.00	478-3157-2-ND§	7,500	42.00/M	SA105E104ZAR
	50	.47µF	±20	.290 (7.37)	.150 (3.81)	478-2442-1-ND	.43	4.05	29.25	202.50	478-2442-2-ND	5,000	135.00/M	SA305E474MAA
	50	.47µF	±20	.290 (7.37)	.150 (3.81)	478-3158-1-ND§	.43	4.05	29.25	202.50	478-3158-2-ND§	5,000	135.00/M	SA305E474MAR
	50	1.0µF	±20	.290 (7.37)	.150 (3.81)	478-2443-1-ND	.61	5.81	41.93	290.25	—	—	—	SA305E105MAA
	50	1.0µF	±20	.290 (7.37)	.150 (3.81)	478-3159-1-ND§	.61	5.81	41.93	290.25	478-3159-2-ND§	5,000	194.00/M	SA305E105MAR

§ RoHS Compliant

SkyCap® Radial Leaded Ceramic Capacitors

The SkyCap series is the industry leading conformally coated radial leaded multilayer capacitor.
Applications: • Decoupling • Filtering • Automotive

Size Code	Dimensions Inch (mm)			
	W Max.	H Max.	T Max.	L.S
15	.150 (3.81)	.150 (3.81)	.100 (2.54)	.100 (2.54)
20	.200 (5.08)	.200 (5.08)	.125 (3.175)	.100 (2.54)
21	.200 (5.08)	.200 (5.08)	.125 (3.175)	.200 (5.08)
30	.300 (7.62)	.300 (7.62)	1.50 (3.81)	.200 (5.08)

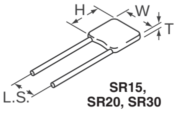

SR15, SR20, SR30

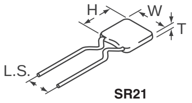

SR21

Dielec-tric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Pricing 1	10	100	500	1000	AVX Part No.
C0G	15	200	10pF	±10	478-2444-ND	.20	1.51	10.75	38.70	60.20	SR152A100KAA
	15	200	10pF	±10	478-3160-ND§	.20	1.51	10.75	38.70	60.20	SR152A100KAR
	15	200	15pF	±10	478-2445-ND	.20	1.51	10.75	38.70	60.20	SR152A150KAA
	15	200	15pF	±10	478-3161-ND§	.20	1.51	10.75	38.70	60.20	SR152A150KAR
	15	200	22pF	±10	478-3162-ND§	.20	1.51	10.75	38.70	60.20	SR152A220KAR
	15	200	33pF	±10	478-3163-ND§	.20	1.51	10.75	38.70	60.20	SR152A330KAR
	15	200	47pF	±10	478-2448-ND	.20	1.51	10.75	38.70	60.20	SR152A470KAA
	15	200	47pF	±10	478-3164-ND§	.20	1.51	10.75	38.70	60.20	SR152A470KAR
	15	200	68pF	±10	478-2449-ND	.20	1.51	10.75	38.70	60.20	SR152A680KAA
	15	200	68pF	±10	478-3165-ND§	.20	1.51	10.75	38.70	60.20	SR152A680KAR
	15	100	100pF	±10	478-3166-ND§	.17	1.26	9.00	32.40	50.40	SR151A101KAR
	15	100	150pF	±10	478-3167-ND§	.17	1.26	9.00	32.40	50.40	SR151A151KAR
	15	100	220pF	±10	478-2452-ND	.19	1.37	9.75	35.10	54.60	SR151A221KAA
	15	100	220pF	±10	478-3168-ND§	.19	1.37	9.75	35.10	54.60	SR151A221KAR
	15	100	330pF	±10	478-3169-ND§	.19	1.44	10.25	36.90	57.40	SR151A331KAR
	15	100	470pF	±10	478-3170-ND§	.20	1.51	10.75	38.70	60.20	SR151A471KAR
	15	100	680pF	±10	478-2455-ND	.22	1.61	11.50	41.40	64.40	SR151A681KAA
	15	100	680pF	±10	478-3171-ND§	.22	1.61	11.50	41.40	64.40	SR151A681KAR
X7R	15	100	1000pF	±10	478-2456-ND	.19	1.44	10.25	36.90	57.40	SR151C102KAA
	15	100	1000pF	±10	478-3172-ND§	.19	1.44	10.25	36.90	57.40	SR151C102KAR
	15	100	1500pF	±10	478-2457-ND	.19	1.44	10.25	36.90	57.40	SR151C152KAA
	15	100	1500pF	±10	478-3173-ND§	.19	1.44	10.25	36.90	57.40	SR151C152KAR
	15	100	2200pF	±10	478-2458-ND	.24	1.79	12.75	45.90	71.40	SR151C222KAA
	15	100	2200pF	±10	478-3174-ND§	.24	1.79	12.75	45.90	71.40	SR151C222KAR
	15	100	3300pF	±10	478-2459-ND	.24	1.79	12.75	45.90	71.40	SR151C332KAA
	15	100	3300pF	±10	478-3175-ND§	.24	1.79	12.75	45.90	71.40	SR151C332KAR
	15	100	4700pF	±10	478-2460-ND	.27	1.96	14.00	50.40	78.40	SR151C472KAA
	15	100	4700pF	±10	478-3176-ND§	.27	1.96	14.00	50.40	78.40	SR151C472KAR
	15	100	6800pF	±10	478-3177-ND§	.27	1.96	14.00	50.40	78.40	SR151C682KAR
	15	100	10000pF	±10	478-2462-ND	.24	1.75	12.50	45.00	70.00	SR151C103KAA

Dielec-tric	Size Code	VDC	Cap.	Cap. Tol. (%)	Digi-Key Part No.	Pricing 1	10	100	500	1000	AVX Part No.
X7R	15	100	10000pF	±10	478-3178-ND§	.24	1.75	12.50	45.00	70.00	SR151C103KAR
	21	100	10000pF	±10	478-2463-ND	.21	1.54	11.00	39.60	61.60	SR211C103KAA
	21	100	10000pF	±10	478-3179-ND§	.21	1.54	11.00	39.60	61.60	SR211C103KAR
	21	100	15000pF	±10	478-2464-ND	.21	1.58	11.25	40.50	63.00	SR211C153KAA
	21	100	15000pF	±10	478-3180-ND§	.21	1.58	11.25	40.50	63.00	SR211C153KAR
	21	100	22000pF	±10	478-3181-ND§	.24	1.79	12.75	45.90	71.40	SR211C223KAR
	21	100	33000pF	±10	478-2466-ND	.24	1.79	12.75	45.90	71.40	SR211C333KAA
	21	100	33000pF	±10	478-3182-ND§	.24	1.79	12.75	45.90	71.40	SR211C333KAR
	21	100	47000pF	±10	478-2467-ND	.24	1.79	12.75	45.90	71.40	SR211C473KAA
	21	100	47000pF	±10	478-3183-ND§	.24	1.79	12.75	45.90	71.40	SR211C473KAR
	21	100	68000pF	±10	478-2468-ND	.24	1.79	12.75	45.90	71.40	SR211C683KAA
	21	100	68000pF	±10	478-3184-ND§	.24	1.79	12.75	45.90	71.40	SR211C683KAR
	21	100	.10µF	±10	478-3185-ND§	.24	1.79	12.75	45.90	71.40	SR211C104KAR
	20	50	68000pF	±10	478-2470-ND	.21	1.58	11.25	40.50	63.00	SR205C683KAA
	20	50	68000pF	±10	478-3186-ND§	.21	1.58	11.25	40.50	63.00	SR205C683KAR
	20	50	.10µF	±10	478-3187-ND§	.24	1.79	12.75	45.90	71.40	SR205C104KAR
	21	50	.10µF	±10	478-3188-ND§	.24	1.79	12.75	45.90	71.40	SR215C104KAR
	30	50	.47µF	±10	478-2473-ND	1.01	7.46	53.25	191.70	298.20	SR305C474KAA
	30	50	.47µF	±10	478-3189-ND§	1.01	7.46	53.25	191.70	298.20	SR305C474KAR
Z5U	21	100	.10µF	+80/-20	478-2474-ND	.27	1.96	14.00	50.40	78.40	SR211E104ZAA
	21	100	.10µF	+80/-20	478-3190-ND§	.27	1.96	14.00	50.40	78.40	SR211E104ZAR
	21	100	.22µF	+80/-20	478-2475-ND	.35	2.56	18.25	65.70	102.20	SR211E224ZAA
	21	100	.22µF	+80/-20	478-3191-ND§	.35	2.56	18.25	65.70	102.20	SR211E224ZAR
	20	50	.10µF	±20	478-2476-ND	.16	1.19	8.50	30.60	47.60	SR205E104MAA
	20	50	.10µF	±20	478-3192-ND§	.16	1.19	8.50	30.60	47.60	SR205E104MAR
	21	50	.10µF	±20	478-3193-ND§	.15	1.12	8.00	28.80	44.80	SR215E104MAR
	21	50	.33µF	±20	478-2478-ND	.37	2.70	19.25	69.30	107.80	SR215E334MAA
	21	50	.33µF	±20	478-3194-ND§	.37	2.70	19.25	69.30	107.80	SR215E334MAR
	30	50	1.0µF	±20	478-3195-ND§	.59	4.34	31.00	111.60	173.60	SR305E105MAR

§ RoHS Compliant

COMPONENTS

Mono-Kap™ Leaded Ceramic Multilayer Capacitors

These conformally coated radial leaded capacitors are designed for commercial and industrial applications, such as: timing, coupling/decoupling, signal comparison and biasing.

Size Code	Dimensions (mm) W Max.	H Max.	T Max.	SH Max. 2.54mm LS	5.08mm LS
15	4.0	4.0	2.5	5.58	6.5
20	5.0	5.0	3.2	6.58	7.5

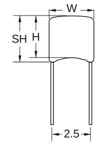

2.5mm Lead Spacing

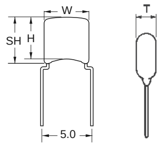

5.08mm Lead Spacing

Cap. Value	Size Code	LS	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape & Reel Pricing	BC Components Part No.
Type COG 50V ±5%								
10 pF	15	2.54	BC1001CT-ND	.73	5.27	BC1001TR-ND	96.00/4,000	K100J15C0GF5TL2
12 pF	15	2.54	BC1002CT-ND	.73	5.27	BC1002TR-ND	96.00/4,000	K120J15C0GF5TL2
15 pF	15	2.54	BC1003CT-ND	.73	5.27	BC1003TR-ND	96.00/4,000	K150J15C0GF5TL2
18 pF	15	2.54	BC1004CT-ND	.73	5.27	BC1004TR-ND	96.00/4,000	K180J15C0GF5TL2
22 pF	15	2.54	BC1005CT-ND	.73	5.27	BC1005TR-ND	96.00/4,000	K220J15C0GF5TL2
27 pF	15	2.54	BC1006CT-ND	.73	5.27	BC1006TR-ND	96.00/4,000	K270J15C0GF5TL2
33 pF	15	2.54	BC1007CT-ND	.73	5.27	BC1007TR-ND	97.20/4,000	K330J15C0GF5TL2
39 pF	15	2.54	BC1008CT-ND	.73	5.27	BC1008TR-ND	96.00/4,000	K390J15C0GF5TL2
47 pF	15	2.54	BC1009CT-ND	.73	5.27	BC1009TR-ND	96.00/4,000	K470J15C0GF5TL2
56 pF	15	2.54	BC1010CT-ND	.73	5.27	BC1010TR-ND	96.00/4,000	K560J15C0GF5TL2
68 pF	15	2.54	BC1011CT-ND	.73	5.27	BC1011TR-ND	96.00/4,000	K680J15C0GF5TL2
82 pF	15	2.54	BC1012CT-ND	.73	5.27	BC1012TR-ND	96.00/4,000	K820J15C0GF5TL2
100 pF	15	2.54	BC1013CT-ND	.73	5.27	BC1013TR-ND	96.00/4,000	K101J15C0GF5TL2
120 pF	15	2.54	BC1014CT-ND	.88	6.34	BC1014TR-ND	116.00/4,000	K121J15C0GF5TL2
150 pF	15	2.54	BC1015CT-ND	.88	6.34	BC1015TR-ND	116.00/4,000	K151J15C0GF5TL2
180 pF	15	2.54	BC1016CT-ND	.88	6.34	BC1016TR-ND	116.00/4,000	K181J15C0GF5TL2
220 pF	15	2.54	BC1017CT-ND	.88	6.34	BC1017TR-ND	116.00/4,000	K221J15C0GF5TL2
270 pF	15	2.54	BC1018CT-ND	1.08	7.80	BC1018TR-ND	144.00/4,000	K271J15C0GF5TL2
330 pF	15	2.54	BC1019CT-ND	1.08	7.80	BC1019TR-ND	144.00/4,000	K331J15C0GF5TL2
390 pF	15	2.54	BC1020CT-ND	1.08	7.80	BC1020TR-ND	144.00/4,000	K391J15C0GF5TL2
470 pF	15	2.54	BC1021CT-ND	1.08	7.80	BC1021TR-ND	144.00/4,000	K471J15C0GF5TL2
560 pF	15	2.54	BC1022CT-ND	1.32	9.56	BC1022TR-ND	176.00/4,000	K561J15C0GF5TL2
680 pF	15	2.54	BC1023CT-ND	1.32	9.56	BC1023TR-ND	176.00/4,000	K681J15C0GF5TL2
820 pF	15	2.54	BC1024CT-ND	1.32	9.56	BC1024TR-ND	176.00/4,000	K821J15C0GF5TL2
1000 pF	15	2.54	BC1025CT-ND	1.08	7.80	BC1025TR-ND	144.00/4,000	K102J15C0GF5TL2
1200 pF	15	2.54	BC1026CT-ND	1.92	13.88	BC1026TR-ND	256.00/4,000	K122J15C0GF5TL2
1500 pF	15	2.54	BC1027CT-ND	1.64	11.86	BC1027TR-ND	220.00/4,000	K152J15C0GF5TL2
1800 pF	15	2.54	BC1028CT-ND	1.92	13.88	BC1028TR-ND	256.00/4,000	K182J15C0GF5TL2
2200 pF	15	2.54	BC1029CT-ND	2.23	16.12	BC1029TR-ND	296.00/4,000	K222J15C0GF5TL2
10 pF	15	5.08	BC1030CT-ND	.73	5.27	BC1030TR-ND	96.00/4,000	K100J15C0GF5TH5
12 pF	15	5.08	BC1031CT-ND	.73	5.27	—	—	K120J15C0GF5TH5
15 pF	15	5.08	BC1032CT-ND	.73	5.27	BC1032TR-ND	96.00/4,000	K150J15C0GF5TH5
18 pF	15	5.08	BC1033CT-ND	.73	5.27	BC1033TR-ND	96.00/4,000	K180J15C0GF5TH5
22 pF	15	5.08	BC1034CT-ND	.73	5.27	BC1034TR-ND	96.00/4,000	K220J15C0GF5TH5
27 pF	15	5.08	BC1035CT-ND	.73	5.27	BC1035TR-ND	96.00/4,000	K270J15C0GF5TH5
33 pF	15	5.08	BC1036CT-ND	.73	5.27	BC1036TR-ND	96.00/4,000	K330J15C0GF5TH5
47 pF	15	5.08	BC1038CT-ND	.73	5.27	BC1038TR-ND	96.00/4,000	K470J15C0GF5TH5
56 pF	15	5.08	BC1039CT-ND	.73	5.27	BC1039TR-ND	96.00/4,000	K560J15C0GF5TH5
68 pF	15	5.08	BC1040CT-ND	.73	5.27	BC1040TR-ND	96.00/4,000	K680J15C0GF5TH5
82 pF	15	5.08	BC1041CT-ND	.73	5.27	BC1041TR-ND	96.00/4,000	K820J15C0GF5TH5
100 pF	15	5.08	BC1042CT-ND	.73	5.27	BC1042TR-ND	96.00/4,000	K101J15C0GF5TH5
150 pF	15	5.08	BC1043CT-ND	.88	6.34	BC1043TR-ND	116.00/4,000	K151J15C0GF5TH5
220 pF	15	5.08	BC1044CT-ND	.88	6.34	BC1044TR-ND	116.00/4,000	K221J15C0GF5TH5
330 pF	15	5.08	BC1045CT-ND	1.08	7.80	BC1045TR-ND	144.00/4,000	K331J15C0GF5TH5
470 pF	15	5.08	BC1046CT-ND	1.08	7.80	BC1046TR-ND	144.00/4,000	K471J15C0GF5TH5
1000 pF	15	5.08	BC1048CT-ND	1.08	7.80	BC1048TR-ND	144.00/4,000	K102J15C0GF5TH5
1500 pF	15	5.08	BC1049CT-ND	1.92	13.88	—	—	K152J15C0GF5TH5
2200 pF	15	5.08	BC1050CT-ND	2.23	16.12	BC1050TR-ND	296.00/4,000	K222J15C0GF5TH5
3300 pF	20	5.08	BC1051CT-ND	4.95	35.78	BC1051TR-ND	495.00/3,000	K332J20C0GF5TH5
4700 pF	20	5.08	BC1052CT-ND	4.95	35.78	BC1052TR-ND	495.00/3,000	K472J20C0GF5TH5
Type COG 100V ±5%								
10 pF	15	2.54	BC1054CT-ND	1.11	8.03	BC1054TR-ND	148.00/4,000	K100J15C0GH5TL2
22 pF	15	2.54	BC1055CT-ND	1.11	8.03	BC1055TR-ND	148.00/4,000	K220J15C0GH5TL2
100 pF	15	2.54	BC1057CT-ND	1.11	8.03	BC1057TR-ND	148.00/4,000	K101J15C0GH5TL2
220 pF	15	2.54	BC1058CT-ND	1.38	9.98	BC1058TR-ND	184.00/4,000	K221J15C0GH5TL2
100 pF	15	5.08	BC1064CT-ND	1.11	8.03	BC1064TR-ND	148.00/4,000	K101J15C0GH5TH5
220 pF	15	5.08	BC1065CT-ND	1.38	9.98	BC1065TR-ND	184.00/4,000	K221J15C0GH5TH5
470 pF	15	5.08	BC1066CT-ND	1.73	12.51	BC1066TR-ND	232.00/4,000	K471J15C0GH5TH5
Type X7R 50V ±10%								
220 pF	15	2.54	BC1068CT-ND	.67	4.81	BC1068TR-ND	88.00/4,000	K221K15X7RF5TL2
330 pF	15	2.54	BC1069CT-ND	.67	4.81	—	—	K331K15X7RF5TL2
680 pF	15	2.54	BC1071CT-ND	.67	4.81	BC1071TR-ND	88.00/4,000	K681K15X7RF5TL2
1000 pF	15	2.54	BC1072CT-ND	.67	4.81	BC1072TR-ND	88.00/4,000	K102K15X7RF5TL2
2200 pF	15	2.54	BC1074CT-ND	.67	4.84	BC1074TR-ND	88.00/4,000	K222K15X7RF5TL2
3300 pF	15	2.54	BC1075CT-ND	.67	4.84	BC1075TR-ND	88.00/4,000	K332K15X7RF5TL2
4700 pF	15	2.54	BC1076CT-ND	.67	4.84	BC1076TR-ND	88.00/4,000	K472K15X7RF5TL2
6800 pF	15	2.54	BC1077CT-ND	.67	4.84	BC1077TR-ND	88.00/4,000	K682K15X7RF5TL2
.01 µF	15	2.54	BC1078CT-ND	.67	4.81	BC1078TR-ND	88.00/4,000	K103K15X7RF5TL2
.022 µF	15	2.54	BC1080CT-ND	.75	5.43	BC1080TR-ND	100.00/4,000	K223K15X7RF5TL2
.033 µF	15	2.54	BC1081CT-ND	.80	5.79	BC1081TR-ND	108.00/4,000	K333K15X7RF5TL2
.047 µF	15	2.54	BC1082CT-ND	.80	5.75	BC1082TR-ND	108.00/4,000	K473K15X7RF5TL2
.068 µF	15	2.54	BC1083CT-ND	1.14	8.22	BC1083TR-ND	152.00/4,000	K683K15X7RF5TL2
.1 µF	15	2.54	BC1084CT-ND	.77	5.59	BC1084TR-ND	103.20/4,000	K104K15X7RF5TL2
220 pF	15	5.08	BC1085CT-ND	.67	4.81	BC1085TR-ND	88.00/4,000	K221K15X7RF5TH5
330 pF	15	5.08	BC1086CT-ND	.67	4.81	BC1086TR-ND	88.00/4,000	K331K15X7RF5TH5
470 pF	15	5.08	BC1087CT-ND	.67	4.81	BC1087TR-ND	88.00/4,000	K471K15X7RF5TH5
680 pF	15	5.08	BC1088CT-ND	.67	4.81	—	—	K681K15X7RF5TH5
1000 pF	15	5.08	BC1089CT-ND	.67	4.81	BC1089TR-ND	88.00/4,000	K102K15X7RF5TH5
2200 pF	15	5.08	BC1091CT-ND	.67	4.84	BC1091TR-ND	88.00/4,000	K222K15X7RF5TH5
3300 pF	15	5.08	BC1092CT-ND	.67	4.84	BC1092TR-ND	88.00/4,000	K332K15X7RF5TH5
4700 pF	15	5.08	BC1093CT-ND	.67	4.84	BC1093TR-ND	88.00/4,000	K472K15X7RF5TH5
6800 pF	15	5.08	BC1094CT-ND	.67	4.84	BC1094TR-ND	88.00/4,000	K682K15X7RF5TH5
.01 µF	15	5.08	BC1095CT-ND	.67	4.81	BC1095TR-ND	88.00/4,000	K103K15X7RF5TH5
.015 µF	15	5.08	BC1096CT-ND	.75	5.40	BC1096TR-ND	100.00/4,000	K153K15X7RF5TH5
.022 µF	15	5.08	BC1097CT-ND	.75	5.43	BC1097TR-ND	100.00/4,000	K223K15X7RF5TH5
.033 µF	15	5.08	BC1098CT-ND	.80	5.79	BC1098TR-ND	108.00/4,000	K333K15X7RF5TH5
.047 µF	15	5.08	BC1099CT-ND	.80	5.75	BC1099TR-ND	108.00/4,000	K473K15X7RF5TH5
.1 µF	15	5.08	BC1101CT-ND	.77	5.59	BC1101TR-ND	103.20/4,000	K104K15X7RF5TH5
.15 µF	20	5.08	BC1102CT-ND	1.68	12.12	BC1102TR-ND	636.00/3,000	K154K20X7RF5TH5
.22 µF	20	5.08	BC1103CT-ND	2.22	16.02	BC1103TR-ND	222.00/3,000	K224K20X7RF5TH5
Type X7R 100V ±10%								
1000 pF	15	2.54	BC1108CT-ND	.75	5.40	BC1108TR-ND	100.00/4,000	K102K15X7RH5TL2
4700 pF	15	2.54	BC1110CT-ND	.80	5.75	BC1110TR-ND	108.00/4,000	K472K15X7RH5TL2
.01 µF	15	2.54	BC1111CT-ND	.96	6.96	BC1111TR-ND	128.00/4,000	K103K15X7RH5TL2
.022 µF	20	2.54	BC1112CT-ND	1.44	10.43	BC1112TR-ND	192.00/4,000	K223K20X7RH5TL2
.1 µF	20	2.54	BC1114CT-ND	1.88	13.59	BC1114TR-ND	188.10/3,000	K104K20X7RH5TL2
470 pF	15	5.08	BC1116CT-ND	.75	5.43	BC1116TR-ND	100.00/4,000	K471K15X7RH5TH5
1000 pF	15	5.08	BC1117CT-ND	.75	5.40	BC1117TR-ND	100.00/4,000	K102K15X7RH5TH5
2200 pF	15	5.08	BC1118CT-ND	.80	5.75	—	—	K222K15X7RH5TH5
.01 µF	15	5.08	BC1120CT-ND	.96	6.96	BC1120TR-ND	128.00/4,000	K103K15X7RH5TH5
.047 µF	20	5.08	BC1122CT-ND	2.07	14.92	BC1122TR-ND	207.00/3,000	K473K20X7RH5TH5
.1 µF	20	5.08	BC1123CT-ND	1.88	13.59	BC1123TR-ND	189.00/3,000	K104K20X7RH5TH5
Type Z5U 50V ±20%								
.15 µF	15	2.54	BC1128CT-ND	1.80	13.00	—	—	K154M15Z5UF5TL2
Type Z5U 100V ±20%								
.022 µF	20	2.54	BC1141CT-ND	1.46	10.53	—	—	K223M20Z5UH5TL2
.047 µF	20	2.54	BC1142CT-ND	1.98	14.30	—	—	K473M20Z5UH5TL2
Type Y5V 25V +80/-20%								
.022 µF	15	2.54	BC1147CT-ND	1.31	9.43	—	—	K223Z15Y5VE5TL2
.1 µF	15	2.54	BC1148CT-ND	1.31	9.43	BC1148TR-ND	174.00/4,000	K104Z15Y5VE5TL2
.47 µF	20	2.54	BC1150CT-ND	2.89	20.90	BC1150TR-ND	289.35/3,000	K474Z20Y5VE5TL2
1 µF	20	2.54	BC1151CT-ND	4.50	32.50	BC1151TR-ND	450.00/3,000	K105Z20Y5VE5TL2
.01 µF	15	5.08	BC1152CT-ND	1.13	8.13	BC1152TR-ND	150.00/4,000	K103Z15Y5VE5TH5
1 µF	20	5.08	BC1157CT-ND	4.50	32.50	BC1157TR-ND	450.00/3,000	K105Z20Y5VE5TH5
Type Y5V 50V +80/-20%								
.01 µF	15	2.54	BC1158CT-ND	.69	4.97	BC1158TR-ND	92.00/4,000	K103Z15Y5VF5TL2
.022 µF	15	2.54	BC1159CT-ND	.69	4.97	BC1159TR-ND	92.00/4,000	K223Z15Y5VF5TL2
.1 µF	15	2.54	BC1160CT-ND	.63	4.58	BC1160TR-ND	84.60/4,000	K104Z15Y5VF5TL2
1 µF	20	2.54	BC1162CT-ND	1.71	12.32	BC1162TR-ND	171.00/3,000	K105Z20Y5VF5TL2
.01 µF	15	5.08	BC1163CT-ND	.69	4.97	BC1163TR-ND	92.00/4,000	K103Z15Y5VF5TH5
.022 µF	15	5.08	BC1164CT-ND	.69	4.97	—	—	K223Z15Y5VF5TH5
.1 µF	15	5.08	BC1165CT-ND	.63	4.58	BC1165TR-ND	84.00/4,000	K104Z15Y5VF5TH5
.47 µF	20	5.08	BC1167CT-ND	1.88	13.55	BC1167TR-ND	189.00/3,000	K474Z20Y5VF5TH5
1 µF	20	5.08	BC1168CT-ND	1.71	12.32	BC1168TR-ND	171.00/3,000	K105Z20Y5VF5TH5

Panasonic

High Voltage Ceramic Disc Capacitors

KBP Characteristics Y5P, 1 to 3 kVDC

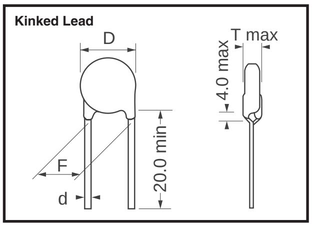

Features: • Wide operating temperature: -25º ~ 125ºC • Improved in "Voltage vs. Temperature Rise" through low-loss ceramic dielectric material applied • Flame-retardant insulating coating applied • Easy mounting through Kinked Lead

Recommended Applications: • Snubber circuit of switching power supply • Horizontal resonance circuit of TV and CRT display • Inverter type lighting apparatus • High voltage pulse and DC circuits

Specifications: • **Chacteristic:** KBP • **Operating Temperature Range:** -25º ~ 125ºC • **Rated Voltage:** 1-3 kVDC • **Dielectric Withstanding Voltage:** Rated voltage 1 to 3 kVDC: 200% of rated voltage for 1 to 5 seconds • **Capacitance:** Within the specified tolerance when measured at 1 kHz ± 20%, 1 to 5 Vrms, and 20ºC • **Q or Dissipation Factor:** Tan∂ ≥ 0.025 • **Insulation Resistance:** 10,000MΩ minimum at 500VDC 1 minute electrification • **Temperature Characteristics:** Temperature Coefficient: +350 ~ -1000 ppm/ºC (Temperature Range: 20º ~ 85ºC) • Y5P: Maximum capacitance change is ±10% over temperature range of -25º ~ 85ºC

Volt-age	Capac-itance	Tolerance	Temp. Char.	Dimensions (mm)				Kinked Lead - *RoHS Compliant*					Straight Lead (Not recommended for New Design)				
				D	T	F	d	Digi-Key Part No.	Pricing 10	100	1,000	Panasonic Part No.	Digi-Key Part No.	Pricing 10	100	1000	Panasonic Part No.
1K	100pF	±10%	Y5P	6.0	4.5	5.00	.6	P9530-ND	2.20	14.25	62.85	ECK-A3A101KBP	P4116-ND	2.61	18.43	100.50	ECK-D3A101KBP
	120pF	±10%	Y5P	6.0	4.5	5.00	.6	P9531-ND	2.20	14.25	62.85	ECK-A3A121KBP	—	—	—	—	—
	150pF	±10%	Y5P	6.0	4.5	5.00	.6	P9532-ND	2.20	14.25	62.85	ECK-A3A151KBP	—	—	—	—	—
	180pF	±10%	Y5P	6.0	4.5	5.00	.6	P9533-ND	2.20	14.25	62.85	ECK-A3A181KBP	P4119-ND	2.54	17.88	97.50	ECK-D3A181KBP
	220pF	±10%	Y5P	6.0	4.5	5.00	.6	P9534-ND	2.20	14.25	62.85	ECK-A3A221KBP	—	—	—	—	—
	270pF	±10%	Y5P	6.0	4.5	5.00	.6	P9535-ND	2.20	14.25	62.85	ECK-A3A271KBP	P4121-ND	2.54	17.88	97.50	ECK-D3A271KBP
	330pF	±10%	Y5P	8.0	4.5	5.00	.6	P9536-ND	2.20	14.25	62.85	ECK-A3A331KBP	P4122-ND	2.98	21.25	119.00	ECK-D3A331KBP
	390pF	±20%	Y5P	8.0	4.5	5.00	.6	P9537-ND	2.20	14.25	62.85	ECK-A3A391KBP	P4123-ND	2.98	21.25	119.00	ECK-D3A391KBP
	470pF	±10%	Y5P	8.0	4.5	5.00	.6	P9538-ND	2.20	14.25	62.85	ECK-A3A471KBP	—	—	—	—	—
	560pF	±10%	Y5P	8.0	4.5	5.00	.6	P9539-ND	2.51	16.29	71.85	ECK-A3A561KBP	P4125-ND	2.98	21.25	119.00	ECK-D3A561KBP
	680pF	±10%	Y5P	8.0	4.5	5.00	.6	P9540-ND	2.51	16.29	71.85	ECK-A3A681KBP	P4126-ND	3.12	22.00	120.00	ECK-D3A681KBP
	820pF	±10%	Y5P	10.0	4.5	5.00	.6	P9541-ND	2.51	16.29	71.85	ECK-A3A821KBP	P4127-ND	2.98	21.25	119.00	ECK-D3A821KBP
	1000pF	±10%	Y5P	10.0	4.5	5.00	.6	P9542-ND	2.83	18.33	80.85	ECK-A3A102KBP	P4128-ND	2.98	21.25	119.00	ECK-D3A102KBP
	1200pF	±10%	Y5P	10.0	4.5	5.00	.6	P9543-ND	2.83	18.33	80.85	ECK-A3A122KBP	P4129-ND	3.71	26.50	148.40	ECK-D3A122KBP
	1500pF	±10%	Y5P	11.0	4.5	5.00	.6	P9544-ND	2.83	18.33	80.85	ECK-A3A152KBP	—	—	—	—	—
	1800pF	±10%	Y5P	11.0	4.5	5.00	.6	P9545-ND	3.62	23.43	103.35	ECK-A3A182KBP	—	—	—	—	—
	2200pF	±10%	Y5P	13.0	4.5	5.00	.6	P9546-ND	3.44	23.07	117.46	ECK-A3A222KBP	P4199-ND	3.71	26.50	148.40	ECK-D3A222KBP
	2700pF	±10%	Y5P	13.0	4.5	5.00	.6	P9547-ND	3.44	23.07	117.46	ECK-A3A272KBP	—	—	—	—	—
	3300pF	±10%	Y5P	13.5	4.5	10.00	.65	P9548-ND	4.73	31.71	161.42	ECK-A3A332KBP	—	—	—	—	—
	3900pF	±10%	Y5P	15.5	4.5	10.00	.65	P9549-ND	4.73	31.71	161.42	ECK-A3A392KBP	—	—	—	—	—
	4700pF	±10%	Y5P	18.0	4.5	10.00	.65	P9550-ND	4.69	31.01	186.03	ECK-A3A472KBP	P4136-ND	6.40	47.00	270.00	ECK-D3A472KBP
	5600pF	±10%	Y5P	18.0	4.5	10.00	.65	P9551-ND	5.50	36.38	218.30	ECK-A3A562KBP	P4137-ND	6.40	47.00	270.00	ECK-D3A562KBP
	10000pF	±10%	Y5P	22.0	5.0	10.00	.65	P9552-ND	9.91	74.30	439.17	ECK-A3A103KBP	P4140-ND	9.57	71.78	424.27	ECK-D3A103KBP
2K	100pF	±10%	Y5P	7.0	5.0	7.5	.65	P9553-ND	3.32	22.25	113.26	ECK-A3D101KBP	P4474A-ND	3.78	27.00	151.20	ECK-D3D101KBP
	120pF	±10%	Y5P	7.0	5.0	7.5	.65	P9554-ND	3.32	22.25	113.26	ECK-A3D121KBP	P4475A-ND	3.78	27.00	151.20	ECK-D3D121KBP
	150pF	±10%	Y5P	7.0	5.0	7.5	.65	P9555-ND	3.32	22.25	113.26	ECK-A3D151KBP	—	—	—	—	—
	180pF	±10%	Y5P	7.0	5.0	7.5	.65	P9556-ND	3.32	22.25	113.26	ECK-A3D181KBP	—	—	—	—	—
	220pF	±10%	Y5P	7.0	5.0	7.5	.65	P9557-ND	3.32	22.25	113.26	ECK-A3D221KBP	P4478A-ND	3.78	27.00	151.20	ECK-D3D221KBP
	270pF	±10%	Y5P	7.0	5.0	7.5	.65	P9558-ND	3.32	22.25	113.26	ECK-A3D271KBP	—	—	—	—	—
	330pF	±10%	Y5P	7.0	5.0	7.5	.65	P9559-ND	3.32	22.25	113.26	ECK-A3D331KBP	—	—	—	—	—
	390pF	±10%	Y5P	7.0	5.0	7.5	.65	P9560-ND	3.32	22.25	113.26	ECK-A3D391KBP	P4481A-ND	3.78	27.00	151.20	ECK-D3D391KBP
	470pF	±10%	Y5P	7.5	5.0	7.5	.65	P9561-ND	3.32	22.25	113.26	ECK-A3D471KBP	—	—	—	—	—
	560pF	±10%	Y5P	8.0	5.0	7.5	.65	P9562-ND	3.32	22.25	113.26	ECK-A3D561KBP	—	—	—	—	—
	680pF	±10%	Y5P	9.0	5.0	7.5	.65	P9563-ND	3.93	26.35	134.12	ECK-A3D681KBP	P4484A-ND	4.27	30.50	170.80	ECK-D3D681KBP
	820pF	±10%	Y5P	9.0	5.0	7.5	.65	P9564-ND	3.93	26.35	134.12	ECK-A3D821KBP	P4485A-ND	4.27	30.50	170.80	ECK-D3D821KBP
	1000pF	±10%	Y5P	10.0	5.0	7.5	.65	P9565-ND	5.22	35.01	178.22	ECK-A3D102KBP	P4486A-ND	5.22	37.25	208.60	ECK-D3D102KBP
	1200pF	±10%	Y5P	10.5	5.0	7.5	.65	P9566-ND	5.22	35.01	178.22	ECK-A3D122KBP	—	—	—	—	—
	1500pF	±10%	Y5P	12.0	5.0	7.5	.65	P9567-ND	4.94	32.69	196.16	ECK-A3D152KBP	P4488A-ND	6.30	46.30	265.95	ECK-D3D152KBP
	1800pF	±10%	Y5P	12.5	5.0	7.5	.65	P9568-ND	4.94	32.69	196.16	ECK-A3D182KBP	—	—	—	—	—
	2200pF	±10%	Y5P	14.0	5.0	10.0	.65	P9569-ND	5.55	36.72	220.32	ECK-A3D222KBP	—	—	—	—	—
	2700pF	±10%	Y5P	16.0	5.0	10.0	.65	P9570-ND	5.55	36.72	220.32	ECK-A3D272KBP	—	—	—	—	—
	3300pF	±10%	Y5P	17.0	5.0	10.0	.65	P9571-ND	7.03	46.51	279.05	ECK-A3D332KBP	—	—	—	—	—
	3900pF	±10%	Y5P	18.0	5.0	10.0	.65	P9572-ND	7.03	46.51	279.05	ECK-A3D392KBP	P4493A-ND	12.33	92.48	546.63	ECK-D3D392KBP
	4700pF	±10%	Y5P	25.0	5.0	10.0	.65	P9573-ND	8.85	66.38	392.35	ECK-A3D472KBP	—	—	—	—	—
	5600pF	±10%	Y5P	25.0	5.0	10.0	.65	P9574-ND	8.85	66.38	392.35	ECK-A3D562KBP	—	—	—	—	—
3K	100pF	±10%	Y5P	7.5	6.0	7.5	.65	P9575-ND	3.44	23.07	117.46	ECK-A3F101KBP	—	—	—	—	—
	120pF	±10%	Y5P	7.5	6.0	7.5	.65	P9576-ND	3.44	23.07	117.46	ECK-A3F121KBP	P4497A-ND	3.85	27.50	154.00	ECK-D3F121KBP
	150pF	±10%	Y5P	7.5	6.0	7.5	.65	P9577-ND	3.44	23.07	117.46	ECK-A3F151KBP	—	—	—	—	—
	180pF	±10%	Y5P	7.5	6.0	7.5	.65	P9578-ND	3.44	23.07	117.46	ECK-A3F181KBP	—	—	—	—	—
	220pF	±10%	Y5P	7.5	6.0	7.5	.65	P9579-ND	3.44	23.07	117.46	ECK-A3F221KBP	P4500A-ND	3.85	27.50	154.00	ECK-D3F221KBP
	270pF	±10%	Y5P	7.5	6.0	7.5	.65	P9580-ND	3.44	23.07	117.46	ECK-A3F271KBP	P4501A-ND	3.85	27.50	154.00	ECK-D3F271KBP
	330pF	±10%	Y5P	8.0	6.0	7.5	.65	P9581-ND	3.44	23.07	117.46	ECK-A3F331KBP	P4502A-ND	4.10	29.25	163.80	ECK-D3F331KBP
	390pF	±10%	Y5P	9.0	6.0	7.5	.65	P9582-ND	3.99	26.76	136.22	ECK-A3F391KBP	—	—	—	—	—
	470pF	±10%	Y5P	9.5	6.0	7.5	.65	P9583-ND	3.99	26.76	136.22	ECK-A3F471KBP	—	—	—	—	—
	560pF	±10%	Y5P	10.0	6.0	7.5	.65	P9584-ND	3.99	26.76	136.22	ECK-A3F561KBP	—	—	—	—	—
	680pF	±10%	Y5P	11.0	6.0	7.5	.65	P9585-ND	4.53	29.99	179.96	ECK-A3F681KBP	P4506A-ND	6.30	46.30	265.95	ECK-D3F681KBP
	820pF	±10%	Y5P	11.0	6.0	7.5	.65	P9586-ND	4.53	29.99	179.96	ECK-A3F821KBP	—	—	—	—	—
	1000pF	±10%	Y5P	12.5	6.0	7.5	.65	P9587-ND	5.34	35.37	212.22	ECK-A3F102KBP	—	—	—	—	—
	1200pF	±10%	Y5P	14.5	6.0	10.0	.65	P9588-ND	5.80	38.41	230.45	ECK-A3F122KBP	P4509A-ND	9.69	72.68	429.59	ECK-D3F122KBP
	1500pF	±10%	Y5P	14.5	6.0	10.0	.65	P9589-ND	5.80	38.41	230.45	ECK-A3F152KBP	—	—	—	—	—
	1800pF	±10%	Y5P	14.5	6.0	10.0	.65	P9590-ND	5.80	38.41	230.45	ECK-A3F182KBP	—	—	—	—	—
	2200pF	±10%	Y5P	17.0	6.0	10.0	.65	P9591-ND	7.03	46.51	279.05	ECK-A3F222KBP	—	—	—	—	—
	2700pF	±10%	Y5P	18.5	6.0	10.0	.65	P9592-ND	7.03	46.51	279.05	ECK-A3F272KBP	—	—	—	—	—

Panasonic® Ceramic Disc Capacitors

Type RS, Class 1 Safety

Ceramic disc capacitors, Type RS, are recognized by the following safety regulations: • UL1414 (125VAC) and CSA (125VAC)

Specifications:

Operating Temperature Range: -25°C ~ 85°C			
Rated Voltage	Applicable Standards		Rated Voltage
	UL, CSA		125VAC
Dielectric Withstanding Voltage	T.C.		Voltage
	B, E		2600VAC for 1 minute
	V		2500VAC for 1 minute
Capacitance	Within the tolerance, when measured at 1 kHz, 5 Vrms maximum and 20°C		
Dissipation Factor	B, E: 0.025 maximum V: 0.05 maximum when measured at 1 kHz, 5 Vrms maximum and 20°C		
Insulation Resist.	10000MΩ minimum at 500VDC, 1 minute		
Temperature Characteristics	T.C.	Cap. Change	Temp. Range
	B	±10% maximum	-25°C ~ 85°C
	E	+20/-55% maximum	-25°C ~ 85°C
	V	+30/-80% maximum	0°C ~ 70°C
The Reference Temperature: 20°C			

Class 2, High Dielectric Constant

Features: • Large capacitance in small size • Minimum coating resin on leads
Applications: • Coupling and By-pass, where low losses and high stability of capacitance are not so important
Specifications: • Operating Temperature Range: -25°C ~ 85°C • Rated Voltage: 25VDC, 50VDC, 500VDC • Dielectric Withstanding Voltage: 250% of the rated voltage for 1 to 5 seconds (no damage occurs when the test voltage is applied between terminals) • Capacitance: measured at 1kHz ±10%, 1 Vrms and 20°C within the specified tolerance - standard capacitance tolerance [Y5P]: ±10% [Y5V, Z4V]: +80/-20% • Dissipation Factor: [Y5P]: D.F. ≤0.025 [Y5V, Z4V]: D.F. ≤0.05 • Insulation Resistance: C≤0.02 μF: ≥10000MΩ, C>0.02 μF: CR products ≥ 200MΩ (measured at the rated voltage and 1 minute electrification) • Temperature Characteristics:

$$\text{Cap. Change} = \frac{\triangle C}{C20} \times 100\%$$

Where C20: Capacitance value in pF at the specified reference temperature of 20°C.
△C: Capacitance drifts in pF from the capacitance value at 20°C over the specified temperature range.

Temperature Characteristics	Maximum Capacitance Change	Temperature Range
Y5P	± 10%	-25°C ~ 85°C
Y5V	+30/-80%	-25°C ~ 85°C
Z4V	+30/-80%	0°C ~ 70°C

Class 1, Temperature Compensating

Features: • Wide product range for temperature compensation • Liner temperature coefficient of capacitance • High stability of capacitance and close tolerance • Low loss at wide range of frequency
Applications: • Temperature compensation of resonant circuit and filters • Where low losses and high stability of capacitance tolerance and high insulation resistance are required
Specifications: • Operating Temperature Range: -25°C ~ 85°C • Rated Voltage: 50VDC, 500VDC • Dielectric Withstanding Voltage: 300% of the rated voltage for 1 to 5 seconds (no damage occurs when the test voltage is applied between terminals) • Capacitance: measured at 1MHz ±20%, 5 Vrms. max. and 20°C within the specified tolerance - standard capacitance tolerance: ±0.25 pF (1 to 5 pF), ±0.5 pF (1 to 10 pF), ±1 pF (10pF), ±5% (Over 10 pF NP0), ±10% (Over 10 pF GP) • Q Factor: Cap. <30 pF: Q≥400+20XC (c: Rated capacitance in pF), Cap≥30 pF: Q≥1000 • Insulation Resistance: ≥10000 MΩ (measured at the rated voltage and 1 minute electrification) • Temperature Coefficient of Capacitance: Temperature Range: -25°C ~ 85°C, Reference Temperature:

$$20°\text{C, T.C.} = \frac{\triangle C}{C_{20} \times \triangle T}$$

Where: C20: Capacitance value in pF at the specified reference temperature of 20°C. △C: Capacitance drifts in pF from the capacitance value at 20°C. △T: The specified temperature range to be measured in °C.

Capacitance (pF)	Rated temperature Coefficient (ppm/°C)	
	NP0	GP
1 to 2	±250	+350 to -1000
3	±120	
4 and above	±60	

Voltage	Capacitance	Tolerance	Temp Characteristics	Dim. (mm) Diameter	Dim. (mm) Thickness	Dim. (mm) Lead Space	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 1,000	Panasonic Part No.
RS Safety Type Class 1											
125	1500pF	±20%	E	10.0	7.0	7.5	P4467A-ND	4.23	30.24	169.34	ECK-DRS152ME
	4700pF	+80, -20%	V	11.5	7.0	7.5	P4472A-ND	3.57	25.48	142.69	ECK-DRS472ZV
Class 2 High Dielectric Constant											
25	.033μF	+80, -20%	Z4V	8.5	3.5	5.0	P4305A-ND	1.29	8.68	44.80	ECK-F1E333ZV
	. 047μF	+80%-20%	Z4V	8.5	3.5	6.35	P4307-ND	1.34	9.03	46.59	ECK-F1E473ZVE

Voltage	Capacitance	Tolerance	Temp Characteristics	Dim. (mm) Diameter	Dim. (mm) Thickness	Dim. (mm) Lead Space	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 1,000	Panasonic Part No.
50	6800pF	+80, -20%	Y5V	6.5	3.5	5.0	P4065A-ND	1.03	6.94	35.84	ECK-F1H682ZF
	6800pF	±10%	SB	6.5	3.5	5.0	P4157-ND	2.66	18.79	102.48	ECF-F1H682KB
Class 1 Temperature Compensating											
50	1000pF	±5%	GP	10.5	3.5	5.0	P4036A-ND	1.83	12.94	70.56	ECC-F1H102J
500	15pF	±10%	GP	6.0	3.5	5.0	P4002A-ND	1.66	11.16	57.60	ECC-D2H150K5
	82pF	±10%	GP	7.0	3.5	5.0	P4011A-ND	1.66	11.16	57.60	ECC-D2H820K5
	47pF	±5%	NP0	8.5	3.5	5.0	P4408A-ND	3.00	21.18	115.50	ECC-D2H470JC5
	82pF	±5%	NP0	13.0	3.5	9.5	P4411-ND	2.98	21.28	119.17	ECC-D2H820JCE

Multilayer Ceramic Chip Capacitor Arrays

ECJ-T and ECJ-R Series

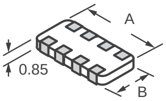

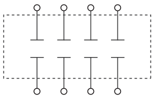

FEATURES: • Four capacitors built in type in the miniature size of 0805 and 1206 • Improvement of placement time on mounting machines • Low self-inductance and excellent frequency characteristics
RECOMMENDED APPLICATIONS: • Input/Output circuit computer's mother board - serial, video and parallel ports

Size Code	Type	WV DC	Capacitors	Dimensions (mm) A	Dimensions (mm) B	Tolerance	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	1,000	Digi-Key Part No.	Tape & Reel Pricing 4,000	Panasonic Part No.
0805	NP0	50	10pF	2.0	1.25	±1pF	P11999CT-ND	.37	2.49	17.57	60.71	95.85	P11999TR-ND	83.00/M	ECJ-TVC1H100F
			22pF			±10%	P12001CT-ND	.37	2.49	17.57	60.71	95.85	P12001TR-ND	83.00/M	ECJ-TVC1H220K
			47pF			±10%	P12003CT-ND	.37	2.49	17.57	60.71	95.85	P12003TR-ND	83.00/M	ECJ-TVC1H470K
			100pF			±10%	P12000CT-ND	.37	2.49	17.57	60.71	95.85	P12000TR-ND	83.00/M	ECJ-TVC1H101K
			220pF			±10%	P12002CT-ND	.37	2.49	17.57	60.71	95.85	P12002TR-ND	83.00/M	ECJ-TVC1H221K
	X7R	50	470pF	2.0	1.25	±20%	P11998CT-ND	.37	2.49	17.57	60.71	95.85	P11998TR-ND	83.00/M	ECJ-TVB1H471M
			1000pF				P11996CT-ND	.37	2.49	17.57	60.71	95.85	P11996TR-ND	83.00/M	ECJ-TVB1H102M
			2200pF				P11997CT-ND	.37	2.49	17.57	60.71	95.85	P11997TR-ND	83.00/M	ECJ-TVB1H222M
		25	4700pF	2.0	1.25	±20%	P11995CT-ND	.37	2.49	17.57	60.71	95.85	P11995TR-ND	83.00/M	ECJ-TVB1E472M
		16	.01μF	2.0	1.25	±20%	P11994CT-ND	.32	2.35	16.80	60.48	94.08	P11994TR-ND	87.00/M	ECJ-TVB1C103M
	X5R	10	.1μF	2.0	1.25	±20%	P12977CT-ND	.28	2.45	20.97	87.38	150.29	P12977TR-ND	98.00/M	ECJ-TVB1A104M
		6.3	1μF	2.0	1.25	±20%	P11985CT-ND	.43	3.16	23.24	84.07	133.52	P11985TR-ND	129.00/M	ECJ-TVB0J105M
	Y5V	16	.1μF	2.0	1.25	+80%/-20%	P12004CT-ND	.32	2.35	16.80	60.48	94.08	P12004TR-ND	87.00/M	ECJ-TVF1C104Z
1206	NP0	50	10pF	3.2	1.6	±1pF	P10580CT-ND	.28	2.44	20.94	87.25	150.07	P10580TR-ND	98.00/M	ECJ-RVC1H100F
			12pF			±10%	P10581CT-ND	.40	3.54	30.30	126.25	217.15	P10581TR-ND	141.00/M	ECJ-RVC1H120K
			15pF			±10%	P10582CT-ND	.28	2.44	20.94	87.25	150.07	P10582TR-ND	98.00/M	ECJ-RVC1H150K
			18pF			±10%	P10583CT-ND	.40	3.54	30.30	126.25	217.15	P10583TR-ND	141.00/M	ECJ-RVC1H180K
			22pF			±10%	P10584CT-ND	.28	2.44	20.94	87.25	150.07	P10584TR-ND	98.00/M	ECJ-RVC1H220K
		50	27pF	3.2	1.6	±10%	P10585CT-ND	.49	4.27	36.60	152.50	262.30	P10585TR-ND	171.00/M	ECJ-RVC1H270K
			33pF				P10586CT-ND	.28	2.44	20.94	87.25	150.07	P10586TR-ND	98.00/M	ECJ-RVC1H330K
			39pF				P10587CT-ND	.49	4.27	36.60	152.50	262.30	P10587TR-ND	171.00/M	ECJ-RVC1H390K
			47pF				P10588CT-ND	.31	2.71	23.25	96.88	166.63	P10588TR-ND	109.00/M	ECJ-RVC1H470K
			56pF				P10589CT-ND	.50	4.38	37.50	156.25	268.75	P10589TR-ND	175.00/M	ECJ-RVC1H560K
		50	68pF	3.2	1.6	±10%	P10590CT-ND	.38	3.29	28.17	117.38	201.89	P10590TR-ND	131.00/M	ECJ-RVC1H680K
			82pF				P10591CT-ND	.50	4.38	37.50	156.25	268.75	P10591TR-ND	175.00/M	ECJ-RVC1H820K
			100pF				P10592CT-ND	.38	3.29	28.17	117.38	201.89	P10592TR-ND	131.00/M	ECJ-RVC1H101K
			120pF				P10593CT-ND	.51	4.48	38.40	160.00	275.20	P10593TR-ND	179.00/M	ECJ-RVC1H121K
			150pF				P10594CT-ND	.38	3.29	28.17	117.38	201.89	P10594TR-ND	131.00/M	ECJ-RVC1H151K
		50	180pF	3.2	1.6	±10%	P10595CT-ND	.52	4.55	39.00	162.50	279.50	P10595TR-ND	182.00/M	ECJ-RVC1H181K
			220pF				P10596CT-ND	.38	3.29	28.17	117.38	201.89	P10596TR-ND	131.00/M	ECJ-RVC1H221K
			270pF				P10597CT-ND	.52	4.55	39.00	162.50	279.50	P10597TR-ND	182.00/M	ECJ-RVC1H271K
			330pF				P10598CT-ND	.38	3.29	28.17	117.38	201.89	P10598TR-ND	131.00/M	ECJ-RVC1H331K
			390pF				P10599CT-ND	.52	4.55	39.00	162.50	279.50	P10599TR-ND	182.00/M	ECJ-RVC1H391K
			470pF				P10600CT-ND	.38	3.29	28.17	117.38	201.89	P10600TR-ND	131.00/M	ECJ-RVC1H471K
	X7R	50	330pF	3.2	1.6	±20%	P10601CT-ND	.40	3.50	30.00	125.00	215.00	P10601TR-ND	140.00/M	ECJ-RVB1H331M
			470pF				P10602CT-ND	.21	1.87	16.02	66.75	114.81	P10602TR-ND	75.00/M	ECJ-RVB1H471M
			680pF				P10603CT-ND	.21	1.87	16.02	66.75	114.81	P10603TR-ND	75.00/M	ECJ-RVB1H681M
			1000pF				P10604CT-ND	.21	1.87	16.02	66.75	114.81	P10604TR-ND	75.00/M	ECJ-RVB1H102M
			1500pF				P10605CT-ND	.21	1.87	16.02	66.75	114.81	P10605TR-ND	75.00/M	ECJ-RVB1H152M
		50	2200pF	3.2	1.6	±20%	P10606CT-ND	.21	1.87	16.02	66.75	114.81	P10606TR-ND	75.00/M	ECJ-RVB1H222M
			3300pF				P10607CT-ND	.23	2.01	17.25	71.88	123.63	P10607TR-ND	81.00/M	ECJ-RVB1H332M
			4700pF				P10608CT-ND	.23	2.01	17.25	71.88	123.63	P10608TR-ND	81.00/M	ECJ-RVB1H472M
			6800pF				P10609CT-ND	.23	2.01	17.25	71.88	123.63	P10609TR-ND	81.00/M	ECJ-RVB1H682M
			10000pF				P10610CT-ND	.23	2.01	17.25	71.88	123.63	P10610TR-ND	81.00/M	ECJ-RVB1H103M
		16	.1μF	3.2	1.6	±20%	P11148CT-ND	.34	2.97	25.47	106.13	182.54	P11148TR-ND	119.00/M	ECJ-RVB1C104M
	X5R	6.3	1μF	3.2	1.6	±20%	P12976CT-ND	.09	.82	6.99	29.13	50.10	P12976TR-ND	33.00/M	ECJ-RVB0J105M
	Y5V	25	.1μF	3.2	1.6	+80%/-20%	P10611CT-ND	.18	1.54	13.23	55.13	94.82	P10611TR-ND	62.00/M	ECJ-RVF1E104Z
		10	1μF	3.2	1.6	+80%/-20%	P11993CT-ND	.52	3.84	27.40	98.64	153.44	P11993TR-ND	142.00/M	ECJ-RVF1A105Z

Panasonic Multilayer Ceramic Chip Capacitors 2-Fold Array Type

Features: • 2 Capacitors built in the miniature size of 0504

Specifications: • Operating Temperature Range for NPO: -55°C ~ 85°C • Operating Temperature Range for X5R: -55°C ~ 125°C

Recommended Applications: • Stabilizing of power supply voltage and Noise filtering as Decoupling capacitors for Digital IC power circuit • Bypass capacitors for CPU digital signal

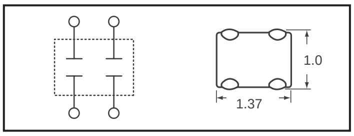

Size Code	Type	WV DC	Cap.	Tol.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	1,000	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
0504	NPO	50	10pF	±1pF	P12981CT-ND	.26	2.30	19.68	82.00	141.04	P12981TR-ND	92.00/M	ECJ-UVC1H100F
			22pF	±10pF	P12983CT-ND	.26	2.30	19.68	82.00	141.04	P12983TR-ND	92.00/M	ECJ-UVC1H220K
			47pF	±10pF	P12984CT-ND	.26	2.30	19.68	82.00	141.04	P12984TR-ND	92.00/M	ECJ-UVC1H470K
			100pF	±10%	P12982CT-ND	.26	2.30	19.68	82.00	141.04	P12982TR-ND	92.00/M	ECJ-UVC1H101K
	X5R	16	1µF	±20%	P12979CT-ND	.64	5.61	48.09	200.38	344.65	P12979TR-ND	224.00/M	ECJ-UVBPC105M
			1µF	±20%	P11983CT-ND	.73	5.44	39.95	144.50	229.50	P11983TR-ND	221.00/M	ECJ-UVB1C105M
		10	.1µF	±20%	P11982CT-ND	.46	3.39	24.23	87.21	135.66	P11982TR-ND	126.00/M	ECJ-UVB1A104M
			1µF	±20%	P11984CT-ND	.62	4.62	33.96	122.83	195.08	P11984TR-ND	188.00/M	ECJ-UVB1A105M
			1µF	±20%	P12978CT-ND	.55	4.84	41.52	173.00	297.56	P12978TR-ND	194.00/M	ECJ-UVBPA105M
		6.3	1µF	±20%	P11981CT-ND	.52	3.88	28.48	103.02	163.62	P11981TR-ND	158.00/M	ECJ-UVB0J105M
			1µF	±20%	P12980CT-ND	.45	3.98	34.11	142.13	244.46	P12980TR-ND	159.00/M	ECJ-UVBPJ105M
			2.2µF	±20%	P11986CT-ND	.36	2.71	19.93	72.08	114.48	P11986TR-ND	110.00/M	ECJ-UVBPJ225M

Ceramic Disc Capacitors KGE Type High Voltage - Rated 1 to 3 kVDC, Temperature Characteristics SL/GP

Features: • Wide operating temperature range: -25°C ~ 105°C • Low loss at wide frequency range and stable against high voltage pulses • Temperature stable (Character SL/GP) • Flame-retardant insulating coating applied

Recommended Applications: • Ballast circuit of LCD backlighting inverter • Snubber circuit of switching power supply • Horizontal resonance circuit of TV and CRT display • Inverter type lighting apparatus • High voltage pulse and DC circuits

Specifications: • **Operating Temperature Range:** -25°C ~ 105°C • **Rated Voltage:** 1kVDC, 2kVDC, 3kVDC • **Dielectric Withstanding Voltage:** 200% of the rated voltage for 1 to 5 seconds • **Capacitance:** Within tolerance, when measured at 1 MHz ±20%, 1 to 5 Vrms, and 20°C • **Q Factor:** Capacitance <30pF: Q≥400+20xC (C: Rated Capacitance in pF). Capacitance ≥30pF: Q≥1000 at 1 MHz±20%, 1 to 5 Vrms, and 20°C • **Insulation Resistance:** 10,000 MΩ minimum at 500 VDC and 1 minute electrification • **Temperature Characteristics:** Temperature Coefficient: +350 ~ -1000 ppm/°C over the temperature range of 20°C ~ 85°C

							Kinked Lead - *RoHS Compliant*					Straight Lead (Not recommended for new design)				
		Temperature		Dimensions (mm)			Digi-Key	Pricing			Panasonic	Digi-Key	Pricing			Panasonic
Voltage	Capacitance	Tolerance	Characteristics	Diameter	Thickness	Lead Space	Part No.	10	100	1,000	Part No.	Part No.	10	100	1000	Part No.
1K	12pF	±5%	GP	6.0	5.0	5.0	P9593-ND	3.16	21.20	107.94	ECC-A3A120JGE	P10793-ND	2.81	19.80	108.00	ECC-D3A120JGE
	15pF						P9594-ND	3.16	21.20	107.94	ECC-A3A150JGE	P10794-ND	2.81	19.80	108.00	ECC-D3A150JGE
	18pF						P9595-ND	3.16	21.20	107.94	ECC-A3A180JGE	P10795-ND	2.81	19.80	108.00	ECC-D3A180JGE
	22pF						P9596-ND	3.16	21.20	107.94	ECC-A3A220JGE	—	—	—	—	—
	27pF						P9597-ND	3.16	21.20	107.94	ECC-A3A270JGE	—	—	—	—	—
	33pF	±5%	GP	6.0	5.0	5.0	P9598-ND	3.16	21.20	107.94	ECC-A3A330JGE	P10798-ND	2.96	20.90	114.00	ECC-D3A330JGE
	39pF						P9599-ND	3.16	21.20	107.94	ECC-A3A390JGE	P10799-ND	2.96	20.90	114.00	ECC-D3A390JGE
	47pF						P9614-ND	3.16	21.20	107.94	ECC-A3A470JGE	P10800-ND	2.96	20.90	114.00	ECC-D3A470JGE
	56pF						P9615-ND	3.16	21.20	107.94	ECC-A3A560JGE	—	—	—	—	—
	68pF						P9616-ND	3.16	21.20	107.94	ECC-A3A680JGE	—	—	—	—	—
	82pF	±5%	GP	6.0	5.0	5.0	P9617-ND	3.16	21.20	107.94	ECC-A3A820JGE	—	—	—	—	—
	100pF			7.0			P9618-ND	3.35	22.50	114.52	ECC-A3A101JGE	—	—	—	—	—
	120pF			7.0			P9619-ND	3.35	22.50	114.52	ECC-A3A121JGE	P10805-ND	3.20	22.55	123.00	ECC-D3A121JGE
	150pF			8.0			P9620-ND	3.35	22.50	114.52	ECC-A3A151JGE	—	—	—	—	—
	180pF			8.0			P9621-ND	3.35	22.50	114.52	ECC-A3A181JGE	P10807-ND	3.08	22.00	123.20	ECC-D3A181JGE
	220pF	±5%	GP	9.0	5.0	5.0	P9622-ND	3.55	23.82	121.24	ECC-A3A221JGE	—	—	—	—	—
	270pF			9.0		5.0	P9623-ND	3.55	23.82	121.24	ECC-A3A271JGE	—	—	—	—	—
	330pF			11.0		5.0	P9624-ND	4.26	28.55	145.32	ECC-A3A331JGE	—	—	—	—	—
	390pF			11.0		5.0	P9625-ND	4.26	28.55	145.32	ECC-A3A391JGE	P10811-ND	3.92	28.00	156.80	ECC-D3A391JGE
	470pF			13.0		7.5	P9626-ND	4.97	33.33	169.68	ECC-A3A471JGE	—	—	—	—	—
2K	12pF	±5%	GP	7.0	5.5	7.5	P9627-ND	3.87	25.93	132.02	ECC-A3D120JGE	P10813-ND	3.15	22.50	126.00	ECC-D3D120JGE
	15pF						P9628-ND	3.87	25.93	132.02	ECC-A3D150JGE	P10814-ND	3.15	22.50	126.00	ECC-D3D150JGE
	18pF						P9629-ND	3.87	25.93	132.02	ECC-A3D180JGE	P10815-ND	3.15	22.50	126.00	ECC-D3D180JGE
	22pF						P9630-ND	3.87	25.93	132.02	ECC-A3D220JGE	P10816-ND	3.15	22.50	126.00	ECC-D3D220JGE
	27pF						P9631-ND	3.87	25.93	132.02	ECC-A3D270JGE	P10817-ND	3.15	22.50	126.00	ECC-D3D270JGE
	33pF	±5%	GP	7.0	5.5	7.5	P9632-ND	3.87	25.93	132.02	ECC-A3D330JGE	—	—	—	—	—
	39pF						P9633-ND	3.87	25.93	132.02	ECC-A3D390JGE	—	—	—	—	—
	47pF						P9634-ND	3.87	25.93	132.02	ECC-A3D470JGE	P10820-ND	3.22	23.00	128.80	ECC-D3D470JGE
	56pF						P9635-ND	3.87	25.93	132.02	ECC-A3D560JGE	P10821-ND	3.36	24.00	134.40	ECC-D3D560JGE
	68pF						P9636-ND	3.87	25.93	132.02	ECC-A3D680JGE	—	—	—	—	—
	82pF						P9637-ND	3.87	25.93	132.02	ECC-A3D820JGE	P10823-ND	3.50	25.00	140.00	ECC-D3D820JGE
	100pF	±5%	GP	8.0	5.5	7.5	P9638-ND	4.00	26.81	136.50	ECC-A3D101JGE	P10824-ND	3.50	25.00	140.00	ECC-D3D101JGE
	120pF			8.0			P9639-ND	4.00	26.81	136.50	ECC-A3D121JGE	P10825-ND	3.64	26.00	145.60	ECC-D3D121JGE
	150pF			9.0			P9640-ND	4.64	31.13	158.48	ECC-A3D151JGE	—	—	—	—	—
	180pF			10.0			P9641-ND	4.71	31.14	186.84	ECC-A3D181JGE	P10827-ND	3.85	27.50	154.00	ECC-D3D181JGE
	220pF			10.0			P9642-ND	4.71	31.14	186.84	ECC-A3D221JGE	—	—	—	—	—
3K	12pF	±5%	GP	7.0	6.0	7.5	P9643-ND	3.94	26.40	134.40	ECC-A3F120JGE	—	—	—	—	—
	15pF						P9644-ND	3.94	26.40	134.40	ECC-A3F150JGE	P10830-ND	4.06	29.00	162.40	ECC-D3F150JGE
	18pF						P9645-ND	3.94	26.40	134.40	ECC-A3F180JGE	P10831-ND	4.06	29.00	162.40	ECC-D3F180JGE
	22pF						P9646-ND	3.94	26.40	134.40	ECC-A3F220JGE	—	—	—	—	—
	27pF						P9647-ND	3.94	26.40	134.40	ECC-A3F270JGE	—	—	—	—	—
	33pF	±5%	GP	7.0	6.0	7.5	P9648-ND	3.94	26.40	134.40	ECC-A3F330JGE	—	—	—	—	—
	39pF			7.0			P9649-ND	3.94	26.40	134.40	ECC-A3F390JGE	—	—	—	—	—
	47pF			7.0			P9650-ND	3.94	26.40	134.40	ECC-A3F470JGE	P10836-ND	4.20	30.00	168.00	ECC-D3F470JGE
	56pF			8.0			P9651-ND	3.94	26.40	134.40	ECC-A3F560JGE	P10837-ND	4.34	31.00	173.60	ECC-D3F560JGE
	68pF			8.0			P9652-ND	3.94	26.40	134.40	ECC-A3F680JGE	P10838-ND	4.34	31.00	173.60	ECC-D3F680JGE
	82pF	±5%	GP	9.0	6.0	7.5	P9653-ND	4.90	32.86	167.30	ECC-A3F820JGE	—	—	—	—	—
	100pF			10.0			P9654-ND	4.90	32.86	167.30	ECC-A3F101JGE	P10840-ND	4.97	35.50	198.80	ECC-D3F101JGE
	120pF			10.0			P9655-ND	4.90	32.86	167.30	ECC-A3F121JGE	P10841-ND	5.04	36.00	201.60	ECC-D3F121JGE
	150pF			11.0			P9656-ND	4.92	32.56	195.35	ECC-A3F151JGE	—	—	—	—	—
6K	10pF	±0.5pF	GP	7.0	6.0	7.5	P12181-ND	5.40	35.75	214.52	ECC-A3J100DGE	—	—	—	—	—
	12pF	±5	GP	7.0	6.0	7.5	P12182-ND	5.40	35.75	214.52	ECC-A3J120JGE	—	—	—	—	—
	15pF			7.0			P12183-ND	5.40	35.75	214.52	ECC-A3J150JGE	—	—	—	—	—
	18pF			7.0			P12184-ND	5.40	35.75	214.52	ECC-A3J180JGE	—	—	—	—	—
	22pF			7.0			P12185-ND	5.40	35.75	214.52	ECC-A3J220JGE	—	—	—	—	—
	27pF	±5	GP	8.0	6.0	7.5	P12186-ND	6.36	42.12	252.72	ECC-A3J270JGE	—	—	—	—	—
	33pF			8.0			P12187-ND	6.36	42.12	252.72	ECC-A3J330JGE	—	—	—	—	—
	39pF			8.5			P12188-ND	6.36	42.12	252.72	ECC-A3J390JGE	—	—	—	—	—
	47pF			9.0			P12189-ND	6.74	44.57	267.44	ECC-A3J470JGE	—	—	—	—	—
	100pF			12.5			P12190-ND	10.33	77.49	458.05	ECC-A3J101JGE	—	—	—	—	—
	150pF			15.0			P12191-ND	10.85	81.36	480.93	ECC-A3J151JGE	—	—	—	—	—

HD Series High Voltage Ceramic Disc Capacitors Y5P Type

Features: • Improved “Voltage vs. Temperature Rise” **Characteristics:** • High reliability using zinc-copper electrode **Application:** • Horizontal resonance circuit of TV and CRT display **Specifications:** • Operating Temperature Range: -25°C ~ 125°C • Dielectric Withstanding Voltage: 200% of rated voltage for 1 to 5 seconds • Capacitance: Measured at 1kHz ±20%, 1 to 5 Vrms and 20°C within the specified tolerance (±10%) • Tangent of loss angle: Measured at 1kHz ±20%, 1 to 5 Vrms and 20°C at 1.5% or less • Insulation Resistance: 500 ± 50VDC and 1 minute electrification at 10,000MΩ or more • Temperature Characteristics: Y5P ± 10% (temperature range: -20°C ~ 85°C)

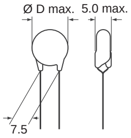

Voltage (kdc)	Capacitance (pF)	Tolerance (%)	Temperature Characteristics	Dimension Diameter (mm)	Digi-Key Part No.	Pricing 10	100	1,000	Panasonic Part No.
2	100	±10	Y5P	7.0	P12175-ND	3.32	22.25	113.26	ECK-AHD101KB
	150	±10	Y5P	7.0	P12176-ND	3.32	22.25	113.26	ECK-AHD151KB
	220	±10	Y5P	7.0	P12177-ND	3.32	22.25	113.26	ECK-AHD221KB
	330	±10	Y5P	7.0	P12178-ND	3.32	22.25	113.26	ECK-AHD331KB
	470	±10	Y5P	9.0	P12179-ND	3.32	22.25	113.26	ECK-AHD471KB
	680	±10	Y5P	10.0	P12180-ND	3.32	22.25	113.26	ECK-AHD681KB

Panasonic®

High Voltage Ceramic Capacitors (SMD)

FEATURES: • Resin molded type for reflow solderings • High reliability through disc capacitor element molded construction • Excellent "Voltage vs. Temperature Rise" through low loss ceramic dielectric • Temperature stable (SL/GP) and (B/Y5P)

SPECIFICATIONS: • Operating Temperature Range: -25°C ~ 105°C • Insulation Resistance: 10000MΩ minimum at 500VDC and 1 minute electrification • Q or Dissipation Factor (tan δ): *SL/GP Temperature Characteristics:* C < 30pF: Q ≥ 400+20 C (C:cap.pF), C ≥ 30pF: Q ≥ 1000 at 1MHz, 1-5Vrms and 20°C *B/Y5P Temperature Characteristics:* D.F. (tan δ)≤0.025 at 1KHz, 1-5Vrms and 20°C • Temperature Characteristics: *SL/GP* Temperature Coefficient: 350 ~ -1000ppm/°C *B/Y5P* Maximum Capacitance Change: ΔC/C≤±10% (Temperature Range: -25°C ~ 85°C) • Capacitance: *SL/GP Temperature Characteristics:* 1MHz, 1-5Vrms and 20°C *B/Y5P Temperature Characteristics:* 1KHz, 1-5Vrms and 20°C • Dielectric Withstanding Voltage: *SL/GP Temperature Characteristics, (*voltage 4kVDC): 150% of the rated voltage for 1-5 seconds *SL/GP Temperature Characteristics,* (voltage 2-3KVDC): 200% of the rated voltage for 1-5 seconds. *B/Y5P Temperature Characteristics:* 200% of the rated voltage for 1-5 seconds

RECOMMENDED APPLICATIONS:
- Output circuit of LCD backlighting inverter
- Snubber circuit of switching power supply
- High voltage circuit

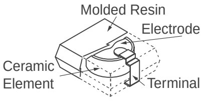

Fig. 1

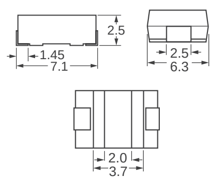

Fig. 2

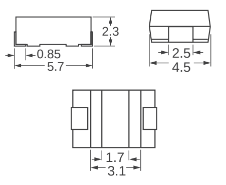

Volt-age	Capac-itance	Capac. Tol. %	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
Fig. 1											
1kVDC	390pF	±10	B/Y5P	PCC2099CT-ND	1.27	.90	.68	PCC2099TR-ND	2,000	389.00/M	ECK-T3A391KB
	470pF	±10	B/Y5P	PCC2100CT-ND	1.27	.90	.68	PCC2100TR-ND	2,000	389.00/M	ECK-T3A471KB
2kVDC	68pF	±5	SL/GP	PCC2091CT-ND	1.27	.90	.68	PCC2091TR-ND	2,000	383.00/M	ECC-T3D680JG
	100pF	±10	B/Y5P	PCC2092CT-ND	1.27	.90	.68	PCC2092TR-ND	2,000	389.00/M	ECK-T3D101KB
	120pF	±10	B/Y5P	PCC2093CT-ND	1.27	.90	.68	PCC2093TR-ND	2,000	389.00/M	ECK-T3D121KB
	150pF	±10	B/Y5P	PCC2094CT-ND	1.27	.90	.68	PCC2094TR-ND	2,000	389.00/M	ECK-T3D151KB
	180pF	±10	B/Y5P	PCC2095CT-ND	1.27	.90	.68	PCC2095TR-ND	2,000	389.00/M	ECK-T3D181KB
	220pF	±10	B/Y5P	PCC2096CT-ND	1.27	.90	.68	PCC2096TR-ND	2,000	389.00/M	ECK-T3D221KB
	270pF	±10	B/Y5P	PCC2097CT-ND	1.27	.90	.68	PCC2097TR-ND	2,000	389.00/M	ECK-T3D271KB
	330pF	±10	B/Y5P	PCC2098CT-ND	1.27	.90	.68	PCC2098TR-ND	2,000	389.00/M	ECK-T3D331KB
3kVDC	10pF	±5	SL/GP	PCC100JCT-ND	1.40	.99	.75	PCC100JTR-ND	2,000	428.00/M	ECC-T3F100JG
	12pF	±5	SL/GP	PCC120JCT-ND	1.40	.99	.75	PCC120JTR-ND	2,000	428.00/M	ECC-T3F120JG
	15pF	±5	SL/GP	PCC150JCT-ND	1.40	.99	.75	PCC150JTR-ND	2,000	428.00/M	ECC-T3F150JG
	18pF	±5	SL/GP	PCC180JCT-ND	1.40	.99	.75	PCC180JTR-ND	2,000	428.00/M	ECC-T3F180JG
	22pF	±5	SL/GP	PCC220JCT-ND	1.40	.99	.75	PCC220JTR-ND	2,000	428.00/M	ECC-T3F220JG
	27pF	±5	SL/GP	PCC270JCT-ND	1.40	.99	.75	PCC270JTR-ND	2,000	428.00/M	ECC-T3F270JG
	33pF	±5	SL/GP	PCC330JCT-ND	1.40	.99	.75	PCC330JTR-ND	2,000	428.00/M	ECC-T3F330JG
	39pF	±5	SL/GP	PCC390JCT-ND	1.40	.99	.75	PCC390JTR-ND	2,000	428.00/M	ECC-T3F390JG
	47pF	±5	SL/GP	PCC470JCT-ND	1.40	.99	.75	PCC470JTR-ND	2,000	428.00/M	ECC-T3F470JG
	56pF	±5	SL/GP	PCC560JCT-ND	1.40	.99	.75	PCC560JTR-ND	2,000	428.00/M	ECC-T3F560JG
4kVDC	10pF	±5	SL/GP	PCC2082CT-ND	1.44	1.08	.81	PCC2082TR-ND	2,000	467.00/M	ECC-T3G100JG
	12pF	±5	SL/GP	PCC2083CT-ND	1.44	1.08	.81	PCC2083TR-ND	2,000	467.00/M	ECC-T3G120JG
	15pF	±5	SL/GP	PCC2084CT-ND	1.44	1.08	.81	PCC2084TR-ND	2,000	467.00/M	ECC-T3G150JG
	18pF	±5	SL/GP	PCC2085CT-ND	1.44	1.08	.81	PCC2085TR-ND	2,000	467.00/M	ECC-T3G180JG
	22pF	±5	SL/GP	PCC2086CT-ND	1.44	1.08	.81	PCC2086TR-ND	2,000	467.00/M	ECC-T3G220JG
	27pF	±5	SL/GP	PCC2087CT-ND	1.44	1.08	.81	PCC2087TR-ND	2,000	467.00/M	ECC-T3G270JG
	33pF	±5	SL/GP	PCC2088CT-ND	1.44	1.08	.81	PCC2088TR-ND	2,000	467.00/M	ECC-T3G330JG
	39pF	±5	SL/GP	PCC2089CT-ND	1.44	1.08	.81	PCC2089TR-ND	2,000	467.00/M	ECC-T3G390JG
	47pF	±5	SL/GP	PCC2090CT-ND	1.44	1.08	.81	PCC2090TR-ND	2,000	467.00/M	ECC-T3G470JG
Fig. 2											
3kVDC	10pF	±0.5	SL/GP	PCC2368CT-ND	1.40	.99	.75	PCC2368TR-ND	3,000	428.00/M	ECC-T3F100DG2
	12pF	±5	SL/GP	PCC2369CT-ND	1.40	.99	.75	PCC2369TR-ND	3,000	428.00/M	ECC-T3F120JG2
	15pF	±5	SL/GP	PCC2370CT-ND	1.40	.99	.75	PCC2370TR-ND	3,000	428.00/M	ECC-T3F150JG2
	18pF	±5	SL/GP	PCC2371CT-ND	1.40	.99	.75	PCC2371TR-ND	3,000	428.00/M	ECC-T3F180JG2
	22pF	±5	SL/GP	PCC2372CT-ND	1.40	.99	.75	PCC2372TR-ND	3,000	428.00/M	ECC-T3F220JG2
	27pF	±5	SL/GP	PCC2373CT-ND	1.40	.99	.75	PCC2373TR-ND	3,000	428.00/M	ECC-T3F270JG2
	33pF	±5	SL/GP	PCC2374CT-ND	1.40	.99	.75	PCC2374TR-ND	3,000	428.00/M	ECC-T3F330JG2
4kVDC	10pF	±0.5	SL/GP	PCC2375CT-ND	1.40	.99	.75	PCC2375TR-ND	3,000	428.00/M	ECC-T3G100DG2
	12pF	±5	SL/GP	PCC2376CT-ND	1.40	.99	.75	PCC2376TR-ND	3,000	428.00/M	ECC-T3G120JG2
	15pF	±5	SL/GP	PCC2377CT-ND	1.40	.99	.75	PCC2377TR-ND	3,000	428.00/M	ECC-T3G150JG2
	18pF	±5	SL/GP	PCC2378CT-ND	1.40	.99	.75	PCC2378TR-ND	3,000	428.00/M	ECC-T3G180JG2
	22pF	±5	SL/GP	PCC2379CT-ND	1.40	.99	.75	PCC2379TR-ND	3,000	428.00/M	ECC-T3G220JG2
	27pF	±5	SL/GP	PCC2380CT-ND	1.40	.99	.75	PCC2380TR-ND	3,000	428.00/M	ECC-T3G270JG2

Ceramic Capacitors for Safety Regulations - Type BC (SMD)

FEATURES: • Resin molded type for reflow soldering surface mountings • High reliability through disc capacitor element molded construction • Related by IEC 384-14 sub-class Y2/X1 and Japan Domestic Safety Regulations • One standard size cover wide capacitance range for 1000pF to 4700pF

APPLICATIONS: • On-board type power module • DC-DC Converter • FAX Modulator-Demodulator

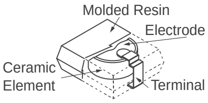

Fig. 1

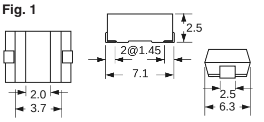

Fig. 2

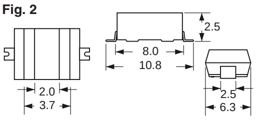

Volt-age	Capaci-tance	Cap. Tol. %	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Panasonic Part No.
Fig. 1 – J-Lead										
250VAC	1000pF	±20	E	P10739CT-ND	1.43	1.13	1.02	P10739TR-ND	816.00/M	ECK-TBC102ME
	1500pF	±20	E	P10740CT-ND	1.43	1.13	1.02	P10740TR-ND	816.00/M	ECK-TBC152ME
	2200pF	±20	E	P10741CT-ND	1.43	1.13	1.02	P10741TR-ND	816.00/M	ECK-TBC222ME
	3300pF	±20	F	P10742CT-ND	1.43	1.13	1.02	P10742TR-ND	816.00/M	ECK-TBC332MF
	4700pF	±20	F	P10743CT-ND	1.43	1.13	1.02	P10743TR-ND	816.00/M	ECK-TBC472MF
Fig. 2 – Gull-Wing										
250VAC	1000pF	±20	E	P10744CT-ND	1.19	.94	.86	—	—	ECK-TBC102MEM
	1500pF	±20	E	P10745CT-ND	1.19	.94	.86	P10745TR-ND	681.80/M	ECK-TBC152MEM
	2200pF	±20	E	P10746CT-ND	1.19	.94	.86	P10746TR-ND	681.80/M	ECK-TBC222MEM
	3300pF	±20	F	P10747CT-ND	1.19	.94	.86	P10747TR-ND	681.80/M	ECK-TBC332MFM

Ceramic Capacitors for Safety Regulations - Type FC (Sub-Class Y2) (SMD)

FEATURES: • Safety Capacitor for reflow soldering process • Approved by SEMKO (IEC60384-14/EN132400 Sub-class Y2) and UL/CSA (Line-by-pass Capacitors) • High reliability through disc capacitor element with resin molded construction **RECOMMENDED APPLICATIONS:** • DC-DC Converter, Power module • MODEM, xDSL • Application EX. (MODEM) **RATINGS:** • **Dimensions:** 5.7L x 4.5W X 2.3T (mm) • **Operating Temperature Range:** -25°C ~ 100°C • **Voltage Proof:** 1500VAC, 1 minute

Temp. Char.	Cap. Change	Temp. Range
SL	+350 ~ -1000ppm/°C	+20°C ~ +85°C
B	±10% Maximum	-20°C ~ +85°C
E	+20, -55% Maximum	-20°C ~ +85°C
F	+30, -80% Maximum	-20°C ~ +85°C
The reference temperature: 20°C		

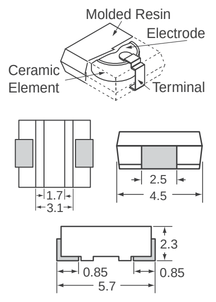

Voltage	Cap.	Cap. Tol. %	Temp. Char.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Panasonic Part No.
250VAC	5pF	±0.5pF	SL	P11424CT-ND	1.39	1.10	1.00	P11424TR-ND	796.00/M	ECC-TFC050DG
	10pF	±0.5pF	SL	P11425CT-ND	1.39	1.10	1.00	P11425TR-ND	796.00/M	ECC-TFC100DG
	22pF	±5%	SL	P11426CT-ND	1.39	1.10	1.00	P11426TR-ND	796.00/M	ECC-TFC220JG
	47pF	±10%	B	P11427CT-ND	1.43	1.13	1.02	P11427TR-ND	816.00/M	ECK-TFC470KB
	100pF	±10%	B	P11428CT-ND	1.43	1.13	1.02	P11428TR-ND	816.00/M	ECK-TFC101KB
	150pF	±10%	B	P11429CT-ND	1.43	1.13	1.02	P11429TR-ND	816.00/M	ECK-TFC151KB
	220pF	±10%	B	P11430CT-ND	1.43	1.13	1.02	P11430TR-ND	816.00/M	ECK-TFC221KB
	330pF	±10%	B	P11431CT-ND	1.43	1.13	1.02	P11431TR-ND	816.00/M	ECK-TFC331KB
	470pF	±10%	B	P11432CT-ND	1.43	1.13	1.02	P11432TR-ND	816.00/M	ECK-TFC471KB
	1000pF	±10%	B	P11433CT-ND	1.67	1.32	1.20	P11433TR-ND	954.00/M	ECK-TFC102KB
	1000pF	±20%	E	P11434CT-ND	1.43	1.13	1.02	P11434TR-ND	816.00/M	ECK-TFC102ME
	1500pF	±20%	F	P11435CT-ND	1.43	1.13	1.02	P11435TR-ND	816.00/M	ECK-TFC152MF
	2200pF	±20%	F	P11436CT-ND	1.43	1.13	1.02	P11436TR-ND	816.00/M	ECK-TFC222MF

Ceramic Disc Capacitors - Type GL

UL 1414 • CSA C22.2 APPROVED

FEATURES:
- Rated: 250VAC
- CSA rating: 125VAC

APPLICATIONS:
- Antenna coupling
- Line-bypass and Across-the-line
- Switching surge killer, etc.

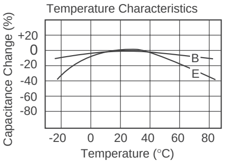

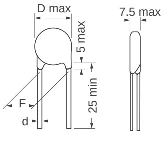

Volt-age	Capaci-tance	Tolerance	Temp. Char.	Dimensions (mm) Dia.	Thick-ness	Lead-Space	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
250	100pF	±20%	B	8.0	5.5	7.5	P4484-ND	.61	.46	.33	.19	ECK-DGL101MB
	150pF	±20%	B	8.0	5.5	7.5	P4485-ND	.61	.46	.33	.19	ECK-DGL150MB
	680pF	±20%	B	9.0	5.5	7.5	P4489-ND	.65	.48	.34	.20	ECK-DGL681MB
	1000pF	±20%	E	9.0	5.5	7.5	P4490-ND	.52	.39	.28	.16	ECK-DGL102ME

High Capacitance Multilayer Ceramic Chip (MLCC) Capacitors

Now available in capacitance values of 1 µF (in 0402) up to 100 µF (in 1210)

More Options are Available when Choosing Capacitors

Advances in ceramic technology have now increased your choices when selecting the best capacitor for your application. No longer are you restricted to Aluminum Electrolytic, Tantalum or Chip Film Capacitors. High capacitance MLCC capacitors from Panasonic now offer higher capacitance and better performance. The superior reliability, ESR and impedance of MLCCs can now be found in higher capacitance values.

Product Design Benefits

Several technology improvements have made it possible for Panasonic to put more capacitance (1µF and greater) into smaller case sizes (1210 down to 0402) while maintaining the largest possible operating voltage (6.3V up to 50V). These mechanical and electrical characteristics will enable you to make products having smaller size, less weight, increased performance and at a lower cost, thereby making your products more competitive.

Electrical Performance Advantages of MLCCs

The lower Impedance and Equivalent Series Resistance (ESR) of MLCC Capacitors vs. Tantalum Capacitors, especially at the higher frequencies in the 100kHz to 1MHz range, provides a performance advantage for your decoupling needs.

Lower Equivalent Series Resistance (ESR)

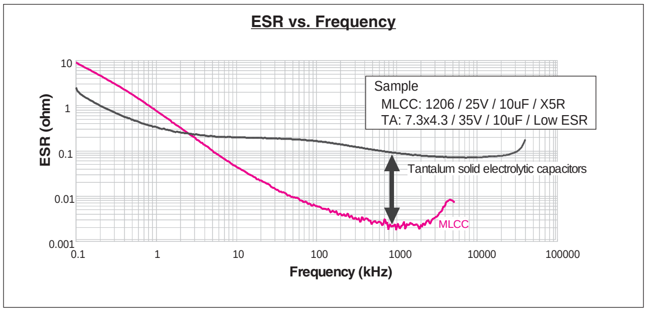

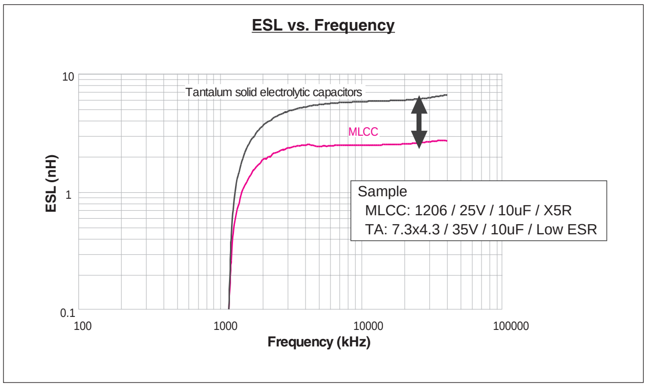

Lower Impedance (Z)

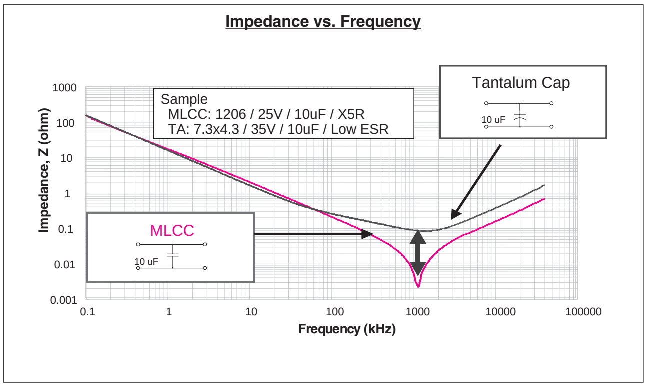

Engineering Kit of High Capacitance Multilayer Ceramic Chip (MLCC) Capacitors is available.

PCC18B-KIT-ND...$49.95

Contains 20 pieces each of 20 assorted values - 400 pieces total. Values range from 1µF to 22µF in case sizes 0402 - 1206, and 0405 array. Temperature characteristic is X5R. Please call Digi-Key for details.

Microwave (Hi-Q) Multilayer Ceramic Chip Capacitors

Now Available in Case Sizes of 0402 (0.1 ~ 15 pF) and 0201 (0.1 ~ 3 pF)

Features and Major Characteristics:

- High-Q values compared to standard MLCCs, due to their unique materials that includes silver inner-electrodes (refer to the graphs)
- Small Case Sizes: 0201 (0.6 x 0.3 mm) and 0402 (1.0 x 0.5 mm) Wide Range of Capacitance Values (0.1 to 15 pF, in 0.1 increments)
- Tight Capacitance Tolerances (as low as + / - 0.05 pF for 0.5 pF and lower)
- Very Stable C0G Temperature Characteristics (0 + / - 30 ppm / °C) 25V Rated Operating Voltage
- Lead (Pb) Free Part Numbers: ECD-G0Exxxx (0402) and ECD-GZExxxx (0201) (Dielectric Materials, Electrodes, and Terminations)

Benefits:

Excellent electrical performance in RF and Microwave circuitry such as Impedance Matching, Resonant Circuits and Coupling.

Typical Applications:

Their small sizes are especially suited for RF and Microwave Circuitry contained within: RF Front-end Modules, Power Amplifier (PA) Modules, Duplexers, Voltage Controlled Oscillators (VCOs), Filter Circuitry (such as Band-Pass Filters), Impedance Matching Circuitry, Resonant Circuitry, Coupling and Bluetooth, Wireless LAN and Modem products.

Hi-Q Kits available in 0201 and 0402 case sizes. Call Digi-Key for details.

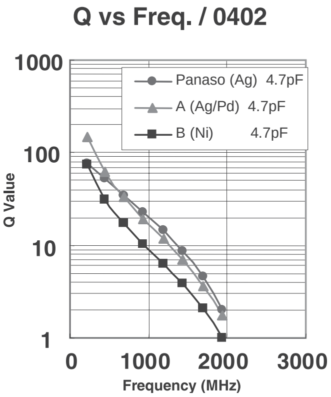

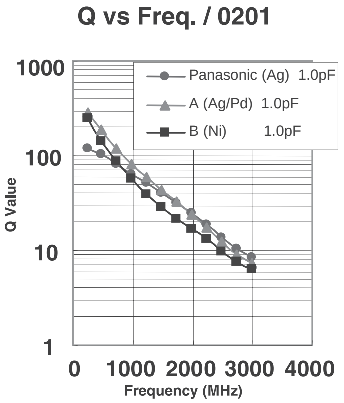

Panasonic®

Multilayer Ceramic Chip Capacitors

0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812

RoHS Compliant Parts Available

FEATURES:

- Small in size and wide capacitance range
- Superior humidity characteristic and long life due to the monolithic construction
- Excellent solderability and resistance to soldering heat due to terminals with three layers of silver nickel and solder
- Low self-inductance and excellent frequency characteristic

RECOMMENDED APPLICATIONS:

Class 1 (T.C. Type): Temperature compensations, tuned circuits and filter circuits, where low loss and high stability of capacitance and high insulation resistance are required.

Class 2 (HI-K type): Coupling and By-pass, where low loss and high stability of capacitance are not so important.

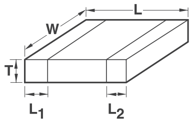

Dimensions shown in mm.

NP0 Type - Class 1:
- Operating temperature range: -55°C ~ 125°C

Temperature Coefficient

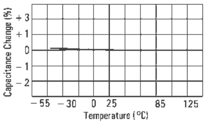

X7R Type - Class 2:
- Operating temperature range: -55°C ~ 125°C

X5R Type - Class 2:
- Operating temperature range: -55°C ~ 85°C

Temperature Coefficient

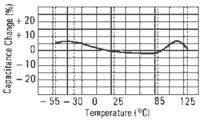

X5S Type - Class2:
- Operating temperature range: -55°C ~ 85°C

Temperature Coefficient

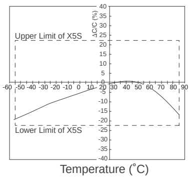

Y5V Type - Class 2:
- Operating temperature range: -30°C ~ 85°C

(F Type: -25°C ~ 85°Cº)

Temperature Coefficient

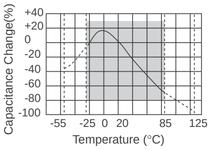

Size Code (EIA)	L◊	W◊	L1 / L2
0201	0.6	0.3	0.15
0402	1.00	0.50	0.20
0508	1.25	2.00	0.20
0603	1.60	0.80	0.30
0612	1.60	3.2	0.30
0805	2.0	1.25	0.50
1206	3.20	1.60	0.60
1210	3.20	2.50	0.60
1812	4.50	3.20	0.90

◊ See data sheet for dimensional tolerance.

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
							10	100	500	1,000		Size	Pricing	
0201	NP0	25	0.5pF	±.25pF	0.30	PCC2101CT-ND	.18	1.28	4.59	7.14	PCC2101TR-ND	15,000	6.00/M	ECJ-ZEC1E0R5C
			1.0pF	±.25pF	0.30	PCC2102CT-ND	.18	1.28	4.59	7.14	PCC2102TR-ND	15,000	6.00/M	ECJ-ZEC1E010C
			1.5pF	±.25pF	0.30	PCC2103CT-ND	.18	1.28	4.59	7.14	PCC2103TR-ND	15,000	6.00/M	ECJ-ZEC1E1R5C
			2.0pF	±.25pF	0.30	PCC2104CT-ND	.18	1.28	4.59	7.14	PCC2104TR-ND	15,000	6.00/M	ECJ-ZEC1E020C
			3.0pF	±.25pF	0.30	PCC2105CT-ND	.18	1.28	4.59	7.14	PCC2105TR-ND	15,000	6.00/M	ECJ-ZEC1E030C
			4.0pF	±.25pF	0.30	PCC2106CT-ND	.18	1.28	4.59	7.14	PCC2106TR-ND	15,000	6.00/M	ECJ-ZEC1E040C
			5.0pF	±.25pF	0.30	PCC2107CT-ND	.18	1.28	4.59	7.14	PCC2107TR-ND	15,000	6.00/M	ECJ-ZEC1E050C
			6.0pF	±.5pF	0.30	PCC2108CT-ND	.18	1.28	4.59	7.14	PCC2108TR-ND	15,000	6.00/M	ECJ-ZEC1E060D
			7.0pF	±.5pF	0.30	PCC2109CT-ND	.18	1.28	4.59	7.14	PCC2109TR-ND	15,000	6.00/M	ECJ-ZEC1E070D
			8.0pF	±.5pF	0.30	PCC2110CT-ND	.18	1.28	4.59	7.14	PCC2110TR-ND	15,000	6.00/M	ECJ-ZEC1E080D
			9.0pF	±.5pF	0.30	PCC2111CT-ND	.18	1.28	4.59	7.14	PCC2111TR-ND	15,000	6.00/M	ECJ-ZEC1E090D
			10pF	±.5pF	0.30	PCC2112CT-ND	.18	1.28	4.59	7.14	PCC2112TR-ND	15,000	6.00/M	ECJ-ZEC1E100D
			12pF	±5%	0.30	PCC2113CT-ND	.18	1.28	4.59	7.14	PCC2113TR-ND	15,000	6.00/M	ECJ-ZEC1E120J
			15pF	±5%	0.30	PCC2114CT-ND	.18	1.28	4.59	7.14	PCC2114TR-ND	15,000	6.00/M	ECJ-ZEC1E150J
			18pF	±5%	0.30	PCC2115CT-ND	.18	1.28	4.59	7.14	PCC2115TR-ND	15,000	6.00/M	ECJ-ZEC1E180J
			22pF	±5%	0.30	PCC2116CT-ND	.18	1.28	4.59	7.14	PCC2116TR-ND	15,000	6.00/M	ECJ-ZEC1E220J
			27pF	±5%	0.30	PCC2117CT-ND	.18	1.28	4.59	7.14	PCC2117TR-ND	15,000	6.00/M	ECJ-ZEC1E270J
			33pF	±5%	0.30	PCC2118CT-ND	.18	1.28	4.59	7.14	PCC2118TR-ND	15,000	6.00/M	ECJ-ZEC1E330J
		16	39pF	±5%	0.30	PCC2119CT-ND	.18	1.28	4.59	7.14	PCC2119TR-ND	15,000	6.00/M	ECJ-ZEC1C390J
			47pF	±5%	0.30	PCC2120CT-ND	.18	1.28	4.59	7.14	PCC2120TR-ND	15,000	6.00/M	ECJ-ZEC1C470J
			56pF	±5%	0.30	PCC2121CT-ND	.18	1.28	4.59	7.14	PCC2121TR-ND	15,000	6.00/M	ECJ-ZEC1C560J
			68pF	±5%	0.30	PCC2122CT-ND	.18	1.28	4.59	7.14	PCC2122TR-ND	15,000	6.00/M	ECJ-ZEC1C680J
			82pF	±5%	0.30	PCC2123CT-ND	.18	1.28	4.59	7.14	PCC2123TR-ND	15,000	6.00/M	ECJ-ZEC1C820J
			100pF	±5%	0.30	PCC2124CT-ND	.18	1.28	4.59	7.14	PCC2124TR-ND	15,000	6.00/M	ECJ-ZEC1C101J
	X7R	50	150pF	±10%	0.30	PCC2388CT-ND	.33	2.13	6.88	8.75	PCC2388TR-ND	15,000	7.00/M	ECJ-ZEB1H151K
			220pF	±10%	0.30	PCC2389CT-ND	.33	2.13	6.88	8.75	PCC2389TR-ND	15,000	7.00/M	ECJ-ZEB1H221K
			330pF	±10%	0.30	PCC2390CT-ND	.33	2.13	6.88	8.75	PCC2390TR-ND	15,000	7.00/M	ECJ-ZEB1H331K
			470pF	±10%	0.30	PCC2391CT-ND	.33	2.13	6.88	8.75	PCC2391TR-ND	15,000	7.00/M	ECJ-ZEB1H471K
			680pF	±10%	0.30	PCC2392CT-ND	.33	2.13	6.88	8.75	PCC2392TR-ND	15,000	7.00/M	ECJ-ZEB1H681K
			1000pF	±10%	0.30	PCC2387CT-ND	.33	2.13	6.88	8.75	PCC2387TR-ND	15,000	7.00/M	ECJ-ZEB1H102K
		25	150pF	±10%	0.30	PCC2125CT-ND	.18	1.28	4.59	7.14	PCC2125TR-ND	15,000	6.00/M	ECJ-ZEB1E151K
			220pF	±10%	0.30	PCC2126CT-ND	.18	1.28	4.59	7.14	PCC2126TR-ND	15,000	6.00/M	ECJ-ZEB1E221K
			331pF	±10%	0.30	PCC2127CT-ND	.18	1.28	4.59	7.14	PCC2127TR-ND	15,000	6.00/M	ECJ-ZEB1E331K
			470pF	±10%	0.30	PCC2128CT-ND	.18	1.28	4.59	7.14	PCC2128TR-ND	15,000	6.00/M	ECJ-ZEB1E471K
			680pF	±10%	0.30	PCC2129CT-ND	.18	1.28	4.59	7.14	PCC2129TR-ND	15,000	6.00/M	ECJ-ZEB1E681K
			1000pF	±10%	0.30	PCC2130CT-ND	.18	1.28	4.59	7.14	PCC2130TR-ND	15,000	6.00/M	ECJ-ZEB1E102K
			1500pF	±10%	0.30	PCC2385CT-ND	.33	2.13	6.88	8.75	PCC2385TR-ND	15,000	7.00/M	ECJ-ZEB1E152K
			2200pF	±10%	0.30	PCC2386CT-ND	.33	2.13	6.88	8.75	PCC2386TR-ND	15,000	7.00/M	ECJ-ZEB1E222K
		16	1500pF	±10%	0.30	PCC2131CT-ND	.18	1.28	4.59	7.14	PCC2131TR-ND	15,000	6.00/M	ECJ-ZEB1C152K
			2200pF	±10%	0.30	PCC2132CT-ND	.18	1.28	4.59	7.14	PCC2132TR-ND	15,000	6.00/M	ECJ-ZEB1C222K
			3300pF	±10%	0.30	PCC2384CT-ND	.33	2.13	6.88	8.75	PCC2384TR-ND	15,000	7.00/M	ECJ-ZEB1C332K
		10	3300pF	±10%	0.30	PCC2133CT-ND	.18	1.28	4.59	7.14	PCC2133TR-ND	15,000	6.00/M	ECJ-ZEB1A332K
	X5R	6.3	4700pF	±10%	0.30	PCC2134CT-ND	.18	1.28	4.59	7.14	PCC2134TR-ND	15,000	6.00/M	ECJ-ZEB0J472K
			6800pF	±10%	0.30	PCC2135CT-ND	.18	1.28	4.59	7.14	PCC2135TR-ND	15,000	6.00/M	ECJ-ZEB0J682K
			10000pF	±10%	0.30	PCC2136CT-ND	.18	1.28	4.59	7.14	PCC2136TR-ND	15,000	6.00/M	ECJ-ZEB0J103K
			.1µF	±10%	0.30	PCC2366CT-ND	.53	3.49	11.28	14.35	PCC2366TR-ND	15,000	11.00/M	ECJ-ZEB0J104K
			.1µF	±10%	0.30	PCC13492CT-ND† ***NEW!***	.76	4.97	16.09	20.48	PCC13492TR-ND† ***NEW!***	15,000	15.00/M	ECJ-ZEBFJ104K
			.1µF	±20%	0.30	PCC2336CT-ND	.35	2.36	7.98	12.16	PCC2336TR-ND	15,000	10.00/M	ECJ-ZEB0J104M
		10	4700pF	±10%	0.30	PCC2382CT-ND	.33	2.13	6.88	8.75	PCC2382TR-ND	15,000	7.00/M	ECJ-ZEB1A472K
			6800pF	±10%	0.03	PCC2383CT-ND	.33	2.13	6.88	8.75	PCC2383TR-ND	15,000	7.00/M	ECJ-ZEB1A682K
			.01µF	±10%	0.30	PCC2381CT-ND	.33	2.13	6.88	8.75	PCC2381TR-ND	15,000	7.00/M	ECJ-ZEB1A103K
0402	NPO	50	.5pF	±.25pF	0.50	PCC0R5CQCT-ND•	.19	1.35	4.66	7.35	PCC0R5CQTR-ND	10,000	6.00/M	ECJ-0EC1H0R5C
			1.0pF	±.25pF	0.50	PCC010CQCT-ND•	.19	1.35	4.66	7.35	PCC010CQTR-ND	10,000	6.00/M	ECJ-0EC1H010C
			1.5pF	±.25pF	0.50	PCC1R5CQCT-ND•	.19	1.35	4.66	7.35	PCC1R5CQTR-ND	10,000	6.00/M	ECJ-0EC1H1R5C
			2.0pF	±.25pF	0.50	PCC020CQCT-ND•	.19	1.35	4.66	7.35	PCC020CQTR-ND	10,000	6.00/M	ECJ-0EC1H020C
			3.0pF	±.25pF	0.50	PCC030CQCT-ND•	.19	1.35	4.66	7.35	PCC030CQTR-ND	10,000	6.00/M	ECJ-0EC1H030C
			4.0pF	±.25pF	0.50	PCC040CQCT-ND•	.19	1.35	4.66	7.35	PCC040CQTR-ND	10,000	6.00/M	ECJ-0EC1H040C
			5.0pF	±.25pF	0.50	PCC050CQCT-ND•	.19	1.35	4.66	7.35	PCC050CQTR-ND	10,000	6.00/M	ECJ-0EC1H050C
			6.0pF	±.5pF	0.50	PCC060CQCT-ND•	.19	1.35	4.66	7.35	PCC060CQTR-ND	10,000	6.00/M	ECJ-0EC1H060D
			7.0pF	±.5pF	0.50	PCC070CQCT-ND•	.19	1.35	4.66	7.35	PCC070CQTR-ND	10,000	6.00/M	ECJ-0EC1H070D
			8.0pF	±.5pF	0.50	PCC080CQCT-ND•	.19	1.35	4.66	7.35	PCC080CQTR-ND	10,000	6.00/M	ECJ-0EC1H080D
			9.0pF	±.5pF	0.50	PCC090CQCT-ND•	.19	1.35	4.66	7.35	PCC090CQTR-ND	10,000	6.00/M	ECJ-0EC1H090D
			10pF	±.5pF	0.50	PCC100CQCT-ND•	.19	1.35	4.66	7.35	PCC100CQTR-ND	10,000	6.00/M	ECJ-0EC1H100D
			12pF	±5%	0.50	PCC120CQCT-ND•	.19	1.35	4.66	7.35	PCC120CQTR-ND	10,000	6.00/M	ECJ-0EC1H120J
			15pF	±5%	0.50	PCC150CQCT-ND•	.19	1.35	4.66	7.35	PCC150CQTR-ND	10,000	6.00/M	ECJ-0EC1H150J
			18pF	±5%	0.50	PCC180CQCT-ND•	.19	1.35	4.66	7.35	PCC180CQTR-ND	10,000	6.00/M	ECJ-0EC1H180J
			22pF	±5%	0.50	PCC220CQCT-ND•	.19	1.35	4.66	7.35	PCC220CQTR-ND	10,000	6.00/M	ECJ-0EC1H220J
			27pF	±5%	0.50	PCC270CQCT-ND•	.19	1.35	4.66	7.35	PCC270CQTR-ND	10,000	6.00/M	ECJ-0EC1H270J
			33pF	±5%	0.50	PCC330CQCT-ND•	.19	1.35	4.66	7.35	PCC330CQTR-ND	10,000	6.00/M	ECJ-0EC1H330J
			39pF	±5%	0.50	PCC390CQCT-ND•	.19	1.35	4.66	7.35	PCC390CQTR-ND	10,000	6.00/M	ECJ-0EC1H390J
			47pF	±5%	0.50	PCC470CQCT-ND•	.19	1.35	4.66	7.35	PCC470CQTR-ND	10,000	6.00/M	ECJ-0EC1H470J
			56pF	±5%	0.50	PCC560CQCT-ND•	.19	1.35	4.66	7.35	PCC560CQTR-ND	10,000	6.00/M	ECJ-0EC1H560J
			68pF	±5%	0.50	PCC680CQCT-ND•	.19	1.35	4.66	7.35	PCC680CQTR-ND	10,000	6.00/M	ECJ-0EC1H680J

‡ Reduced DC Bias Voltage Characteristics * Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
							10	100	500	1,000		Size	Pricing	
0402	NPO	50	82pF	±5%	0.50	PCC820CQCT-ND•	.19	1.35	4.66	7.35	PCC820CQTR-ND	10,000	6.00/M	ECJ-0EC1H820J
			100pF	±5%	0.50	PCC101CQCT-ND•	.20	1.43	4.94	7.80	PCC101CQTR-ND	10,000	7.00/M	ECJ-0EC1H101J
			120pF	±5%	0.50	PCC121CQCT-ND•	.20	1.43	4.94	7.80	PCC121CQTR-ND	10,000	7.00/M	ECJ-0EC1H121J
			150pF	±5%	0.50	PCC151CQCT-ND•	.20	1.43	4.94	7.80	PCC151CQTR-ND	10,000	7.00/M	ECJ-0EC1H151J
			180pF	±5%	0.50	PCC181CQCT-ND•	.18	1.30	4.68	7.28	PCC181CQTR-ND	10,000	7.00/M	ECJ-0EC1H181J
			220pF	±5%	0.50	PCC221CQCT-ND•	.18	1.30	4.68	7.28	PCC221CQTR-ND	10,000	7.00/M	ECJ-0EC1H221J
	X7R	50	100pF	±10%	0.50	PCC1709CT-ND•	.19	1.35	4.66	7.35	PCC1709TR-ND	10,000	6.00/M	ECJ-0EB1H101K
			120pF	±10%	0.50	PCC1710CT-ND•	.19	1.35	4.66	7.35	PCC1710TR-ND	10,000	6.00/M	ECJ-0EB1H121K
			150pF	±10%	0.50	PCC1711CT-ND•	.19	1.35	4.66	7.35	PCC1711TR-ND	10,000	6.00/M	ECJ-0EB1H151K
			180pF	±10%	0.50	PCC1712CT-ND•	.19	1.35	4.66	7.35	PCC1712TR-ND	10,000	6.00/M	ECJ-0EB1H181K
			220pF	±10%	0.50	PCC1713CT-ND•	.19	1.35	4.66	7.35	PCC1713TR-ND	10,000	6.00/M	ECJ-0EB1H221K
			270pF	±10%	0.50	PCC1714CT-ND•	.19	1.35	4.66	7.35	PCC1714TR-ND	10,000	6.00/M	ECJ-0EB1H271K
			330pF	±10%	0.50	PCC1715CT-ND•	.19	1.35	4.66	7.35	PCC1715TR-ND	10,000	6.00/M	ECJ-0EB1H331K
			390pF	±10%	0.50	PCC1716CT-ND•	.19	1.35	4.66	7.35	PCC1716TR-ND	10,000	6.00/M	ECJ-0EB1H391K
			470pF	±10%	0.50	PCC1717CT-ND•	.19	1.35	4.66	7.35	PCC1717TR-ND	10,000	6.00/M	ECJ-0EB1H471K
			560pF	±10%	0.50	PCC1718CT-ND•	.19	1.35	4.66	7.35	PCC1718TR-ND	10,000	6.00/M	ECJ-0EB1H561K
			680pF	±10%	0.50	PCC1719CT-ND•	.19	1.35	4.66	7.35	PCC1719TR-ND	10,000	6.00/M	ECJ-0EB1H681K
			820pF	±10%	0.50	PCC1720CT-ND•	.19	1.35	4.66	7.35	PCC1720TR-ND	10,000	6.00/M	ECJ-0EB1H821K
			1000pF	±10%	0.50	PCC1721CT-ND•	.19	1.35	4.66	7.35	PCC1721TR-ND	10,000	6.00/M	ECJ-0EB1H102K
			1200pF	±10%	0.50	PCC1722CT-ND•	.19	1.35	4.66	7.35	PCC1722TR-ND	10,000	6.00/M	ECJ-0EB1H122K
			1500pF	±10%	0.50	PCC1723CT-ND•	.19	1.35	4.66	7.35	PCC1723TR-ND	10,000	6.00/M	ECJ-0EB1H152K
			1800pF	±10%	0.50	PCC1724CT-ND•	.19	1.35	4.66	7.35	PCC1724TR-ND	10,000	6.00/M	ECJ-0EB1H182K
			2200pF	±10%	0.50	PCC1725CT-ND•	.19	1.35	4.66	7.35	PCC1725TR-ND	10,000	6.00/M	ECJ-0EB1H222K
			2700pF	±10%	0.50	PCC1726CT-ND•	.19	1.35	4.66	7.35	PCC1726TR-ND	10,000	6.00/M	ECJ-0EB1H272K
			3300pF	±10%	0.50	PCC1727CT-ND•	.19	1.35	4.66	7.35	PCC1727TR-ND	10,000	6.00/M	ECJ-0EB1H332K
			3900pF	±10%	0.50	PCC1728CT-ND•	.19	1.35	4.66	7.35	PCC1728TR-ND	10,000	6.00/M	ECJ-0EB1H392K
		25	100pF	±10%	0.50	PCC1702CT-ND	2.81	19.80	68.40	108.00	PCC1702TR-ND	10,000	90.00/M	ECJ-0EB1E101K
			120pF	±10%	0.50	PCC1703CT-ND	2.81	19.80	68.40	108.00	PCC1703TR-ND	10,000	90.00/M	ECJ-0EB1E121K
			150pF	±10%	0.50	PCC1704CT-ND	2.81	19.80	68.40	108.00	PCC1704TR-ND	10,000	90.00/M	ECJ-0EB1E151K
			180pF	±10%	0.50	PCC1705CT-ND	2.81	19.80	68.40	108.00	PCC1705TR-ND	10,000	90.00/M	ECJ-0EB1E181K
			220pF	±10%	0.50	PCC1706CT-ND	2.81	19.80	68.40	108.00	PCC1706TR-ND	10,000	90.00/M	ECJ-0EB1E221K
			270pF	±10%	0.50	PCC271BQCT-ND	2.89	20.35	70.30	111.00	PCC271BQTR-ND	10,000	93.00/M	ECJ-0EB1E271K
			330pF	±10%	0.50	PCC331BQCT-ND	2.89	20.35	70.30	111.00	PCC331BQTR-ND	10,000	93.00/M	ECJ-0EB1E331K
			391pF	±10%	0.50	PCC391BQCT-ND	2.89	20.35	70.30	111.00	PCC391BQTR-ND	10,000	93.00/M	ECJ-0EB1E391K
			470pF	±10%	0.50	PCC471BQCT-ND	2.89	20.35	70.30	111.00	PCC471BQTR-ND	10,000	93.00/M	ECJ-0EB1E471K
			560pF	±10%	0.50	PCC561BQCT-ND	2.89	20.35	70.30	111.00	PCC561BQTR-ND	10,000	93.00/M	ECJ-0EB1E561K
			680pF	±10%	0.50	PCC681BQCT-ND	2.89	20.35	70.30	111.00	PCC681BQTR-ND	10,000	93.00/M	ECJ-0EB1E681K
			820pF	±10%	0.50	PCC821BQCT-ND	2.89	20.35	70.30	111.00	PCC821BQTR-ND	10,000	93.00/M	ECJ-0EB1E821K
			1000pF	±10%	0.50	PCC102BQCT-ND	2.89	20.35	70.30	111.00	PCC102BQTR-ND	10,000	93.00/M	ECJ-0EB1E102K
			1200pF	±10%	0.50	PCC122BQCT-ND	2.89	20.35	70.30	111.00	PCC122BQTR-ND	10,000	93.00/M	ECJ-0EB1E122K
			1500pF	±10%	0.50	PCC152BQCT-ND	2.89	20.35	70.30	111.00	PCC152BQTR-ND	10,000	93.00/M	ECJ-0EB1E152K
			1800pF	±10%	0.50	PCC182BQCT-ND	2.89	20.35	70.30	111.00	PCC182BQTR-ND	10,000	93.00/M	ECJ-0EB1E182K
			2200pF	±10%	0.50	PCC222BQCT-ND	2.89	20.35	70.30	111.00	PCC222BQTR-ND	10,000	93.00/M	ECJ-0EB1E222K
			2700pF	±10%	0.50	PCC272BQCT-ND	3.12	22.00	76.00	120.00	PCC272BQTR-ND	10,000	100.00/M	ECJ-0EB1E272K
			3300pF	±10%	0.50	PCC332BQCT-ND	3.39	23.93	82.65	130.50	PCC332BQTR-ND	10,000	109.00/M	ECJ-0EB1E332K
			3900pF	±10%	0.50	PCC392BQCT-ND	3.51	24.75	85.50	135.00	PCC392BQTR-ND	10,000	113.00/M	ECJ-0EB1E392K
			4700pF	±10%	0.50	PCC472BQCT-ND•	.19	1.35	4.66	7.35	PCC472BQTR-ND	10,000	6.00/M	ECJ-0EB1E472K
			5600pF	±10%	0.50	PCC1707CT-ND•	.19	1.35	4.66	7.35	PCC1707TR-ND	10,000	6.00/M	ECJ-0EB1E562K
			6800pF	±10%	0.50	PCC1708CT-ND•	.19	1.35	4.66	7.35	PCC1708TR-ND	10,000	6.00/M	ECJ-0EB1E682K
			8200pF	±10%	0.50	PCC2271CT-ND	.19	1.35	4.66	7.35	PCC2271TR-ND	10,000	6.00/M	ECJ-0EB1E822K
			.01µF	±10%	0.50	PCC2270CT-ND	.19	1.35	4.66	7.35	PCC2270TR-ND	10,000	6.00/M	ECJ-0EB1E103K
		16	5600pF	±10%	0.50	PCC562BQCT-ND	2.42	17.05	58.90	93.00	PCC562BQTR-ND	10,000	78.00/M	ECJ-0EB1C562K
			6800pF	±10%	0.50	PCC682BQCT-ND	2.50	17.60	60.80	96.00	PCC682BQTR-ND	10,000	80.00/M	ECJ-0EB1C682K
			8200pF	±10%	0.50	PCC822BQCT-ND•	2.54	17.88	61.75	97.50	PCC822BQTR-ND	10,000	81.00/M	ECJ-0EB1C822K
			10000pF	±10%	0.50	PCC103BQCT-ND•	.19	1.35	4.66	7.35	PCC103BQTR-ND	10,000	6.00/M	ECJ-0EB1C103K
			12000pF	±10%	0.50	PCC1700CT-ND•	.19	1.35	4.66	7.35	PCC1700TR-ND	10,000	6.00/M	ECJ-0EB1C123K
			15000pF	±10%	0.50	PCC1701CT-ND•	.21	1.46	5.04	7.95	PCC1701TR-ND	10,000	7.00/M	ECJ-0EB1C153K
			18000pF	±10%	0.50	PCC2137CT-ND•	.38	2.67	9.22	14.57	PCC2137TR-ND	10,000	8.00/M	ECJ-0EB1C183K
			22000pF	±10%	0.50	PCC2138CT-ND•	.25	1.79	6.18	9.75	PCC2138TR-ND	10,000	8.00/M	ECJ-0EB1C223K
			.1µF	±10%	0.50	PCC13490CT-ND ***NEW!***	1.14	7.44	24.06	30.63	PCC13490TR-ND ***NEW!***	10,000	25.00/M	ECJ-0EX1C104K
	X5R	16	.1µF	±10%	0.50	PCC2363CT-ND	.93	6.08	19.66	25.03	PCC2363TR-ND	10,000	20.00/M	ECJ-0EB1C104K
		10	27000pF	±10%	0.50	PCC2139CT-ND	.26	1.84	6.37	10.05	PCC2139TR-ND	10,000	8.00/M	ECJ-0EB1A273K
			33000pF	±10%	0.50	PCC2140CT-ND	.26	1.84	6.37	10.05	PCC2140TR-ND	10,000	8.00/M	ECJ-0EB1A333K
			39000pF	±10%	0.50	PCC2141CT-ND	.26	1.84	6.37	10.05	PCC2141TR-ND	10,000	8.00/M	ECJ-0EB1A393K
			47000pF	±10%	0.50	PCC2142CT-ND	.26	1.84	6.37	10.05	PCC2142TR-ND	10,000	8.00/M	ECJ-0EB1A473K
			56000pF	±10%	0.50	PCC2143CT-ND	.26	1.84	6.37	10.05	PCC2143TR-ND	10,000	8.00/M	ECJ-0EB1A563K
			68000pF	±10%	0.50	PCC2144CT-ND	.26	1.84	6.37	10.05	PCC2144TR-ND	10,000	8.00/M	ECJ-0EB1A683K
			82000pF	±10%	0.50	PCC2145CT-ND	.26	1.84	6.37	10.05	PCC2145TR-ND	10,000	8.00/M	ECJ-0EB1A823K
			.1µF	±10%	0.50	PCC2146CT-ND•	.26	1.84	6.37	10.05	PCC2146TR-ND	10,000	8.00/M	ECJ-0EB1A104K
			1.0µF	±20%	0.50	PCC2364CT-ND	2.01	12.99	40.11	57.30	PCC2364TR-ND	10,000	51.00/M	ECJ-0EB1A105M
		6.3	.22µF	±10%	0.50	PCC2269CT-ND	.69	4.65	15.75	24.00	PCC2269TR-ND	10,000	19.00/M	ECJ-0EB0J224K
			.47µF	±10%	0.50	PCC2394CT-ND	.89	5.82	18.84	23.98	PCC2394TR-ND	10,000	19.00/M	ECJ-0EB0J474K
			1µF	±20%	0.50	PCC2257CT-ND	1.12	7.89	27.27	43.05	PCC2257TR-ND	10,000	36.00/M	ECJ-0EB0J105M
			1µF	±10%	0.50	PCC2393CT-ND	1.85	12.07	39.05	49.70	PCC2393TR-ND	10,000	40.00/M	ECJ-0EB0J105K
			1µF	±10%	0.50	PCC13493CT-ND† ***NEW!***	1.99	13.01	42.08	53.55	PCC13493TR-ND† ***NEW!***	10,000	43.00/M	ECJ-0EBFJ105K
			2.2µF	±20%	0.50	PCC2421CT-ND ***NEW!***	2.28	14.79	45.68	65.25	PCC2421TR-ND ***NEW!***	10,000	58.00/M	ECJ-0EB0J225M
	Y5V	50	1000pF	+80%/-20%	0.50	PCC1741CT-ND	.19	1.35	4.66	7.35	PCC1741TR-ND	10,000	6.00/M	ECJ-0EF1H102Z
			1500pF	+80%/-20%	0.50	PCC1742CT-ND	2.57	18.15	62.70	99.00	PCC1742TR-ND	10,000	83.00/M	ECJ-0EF1H152Z
			2200pF	+80%/-20%	0.50	PCC1743CT-ND	.19	1.35	4.66	7.35	PCC1743TR-ND	10,000	6.00/M	ECJ-0EF1H222Z
			3300pF	+80%/-20%	0.50	PCC1744CT-ND	2.57	18.15	62.70	99.00	PCC1744TR-ND	10,000	83.00/M	ECJ-0EF1H332Z
			4700pF	+80%/-20%	0.50	PCC1745CT-ND	.19	1.35	4.66	7.35	PCC1745TR-ND	10,000	6.00/M	ECJ-0EF1H472Z
			6800pF	+80%/-20%	0.50	PCC1746CT-ND	2.57	18.15	62.70	99.00	PCC1746TR-ND	10,000	83.00/M	ECJ-0EF1H682Z
			10000pF	+80%/-20%	0.50	PCC1747CT-ND	.19	1.35	4.66	7.35	PCC1747TR-ND	10,000	6.00/M	ECJ-0EF1H103Z
		25	1000pF	+80%/-20%	0.50	PCC1732CT-ND	.19	1.35	4.66	7.35	PCC1732TR-ND	10,000	6.00/M	ECJ-0EF1E102Z
			1500pF	+80%/-20%	0.50	PCC1733CT-ND	2.57	18.15	62.70	99.00	PCC1733TR-ND	10,000	83.00/M	ECJ-0EF1E152Z
			2200pF	+80%/-20%	0.50	PCC1734CT-ND	.19	1.35	4.66	7.35	PCC1734TR-ND	10,000	6.00/M	ECJ-0EF1E222Z
			3300pF	+80%/-20%	0.50	PCC1735CT-ND	2.57	18.15	62.70	99.00	PCC1735TR-ND	10,000	83.00/M	ECJ-0EF1E332Z
			4700pF	+80%/-20%	0.50	PCC1736CT-ND	.19	1.35	4.66	7.35	PCC1736TR-ND	10,000	6.00/M	ECJ-0EF1E472Z
			6800pF	+80%/-20%	0.50	PCC1737CT-ND	2.57	18.15	62.70	99.00	PCC1737TR-ND	10,000	83.00/M	ECJ-0EF1E682Z
			10000pF	+80%/-20%	0.50	PCC1738CT-ND	.19	1.35	4.66	7.35	PCC1738TR-ND	10,000	6.00/M	ECJ-0EF1E103Z
			15000pF	+80%/-20%	0.50	PCC1739CT-ND	2.54	17.88	61.75	97.50	PCC1739TR-ND	10,000	81.00/M	ECJ-0EF1E153Z
			22000pF	+80%/-20%	0.50	PCC1740CT-ND	.19	1.35	4.66	7.35	PCC1740TR-ND	10,000	6.00/M	ECJ-0EF1E223Z
		16	15000pF	+80%/-20%	0.50	PCC153FQCT-ND	3.08	21.73	75.05	118.50	PCC153FQTR-ND	10,000	99.00/M	ECJ-0EF1C153Z
			22000pF	+80%/-20%	0.50	PCC223FQCT-ND	.19	1.35	4.66	7.35	PCC223FQTR-ND	10,000	6.00/M	ECJ-0EF1C223Z
			33000pF	+80%/-20%	0.50	PCC333FQCT-ND	3.39	23.93	82.65	130.50	PCC333FQTR-ND	10,000	109.00/M	ECJ-0EF1C333Z
			47000pF	+80%/-20%	0.50	PCC1729CT-ND	.19	1.35	4.66	7.35	PCC1729TR-ND	10,000	6.00/M	ECJ-0EF1C473Z
			68000pF	+80%/-20%	0.50	PCC1730CT-ND	3.39	23.93	82.65	130.50	PCC1730TR-ND	10,000	109.00/M	ECJ-0EF1C683Z
			.1µF	+80%/-20%	0.50	PCC1731CT-ND	.19	1.35	4.66	7.35	PCC1731TR-ND	10,000	6.00/M	ECJ-0EF1C104Z
		10	.22µF	+80%/-20%	0.50	PCC2272CT-ND	.73	4.90	16.59	25.28	PCC2272TR-ND	10,000	20.00/M	ECJ-0EF1A224Z
		6.3	1µF	+80%/-20%	0.50	PCC2268CT-ND	.94	6.36	21.53	32.80	PCC2268TR-ND	10,000	26.00/M	ECJ-0EF0J105Z
0508	X7R	50	.01µF	±10%	0.85	PCC2187CT-ND	2.04	14.55	52.38	87.30	PCC2187TR-ND	4,000	76.00/M	ECY-29RH103KV

‡ Reduced DC Bias Voltage Characteristics * Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
0508	X7R	25	.1µF	±10%	0.85	PCC2188CT-ND	2.04	14.55	52.38	87.30	PCC2188TR-ND	4,000	76.00/M	ECY-29RE104KV
	X5R	10	1µF	±10%	0.85	PCC2189CT-ND	2.28	16.25	58.50	97.50	PCC2189TR-ND	4,000	85.00/M	ECY-29RA105KV
0603	NPO	100	10pF	±0.5pF	0.80	PCC1941CT-ND	.43	2.88	9.77	15.81	PCC1941TR-ND	4,000	13.00/M	ECJ-1VC2A100D
			15pF	±5%	0.80	PCC1942CT-ND	.43	2.88	9.77	15.81	PCC1942TR-ND	4,000	13.00/M	ECJ-1VC2A150J
			22pF	±5%	0.80	PCC1943CT-ND	.43	2.88	9.77	15.81	PCC1943TR-ND	4,000	13.00/M	ECJ-1VC2A220J
			33pF	±5%	0.80	PCC1944CT-ND	.36	2.56	8.84	14.88	PCC1944TR-ND	4,000	12.00/M	ECJ-1VC2A330J
			47pF	±5%	0.80	PCC1945CT-ND	.36	2.56	8.84	14.88	PCC1945TR-ND	4,000	12.00/M	ECJ-1VC2A470J
			68pF	±5%	0.80	PCC1946CT-ND	.36	2.56	8.84	14.88	PCC1946TR-ND	4,000	12.00/M	ECJ-1VC2A680J
			100pF	±5%	0.80	PCC1947CT-ND	.36	2.56	8.84	14.88	PCC1947TR-ND	4,000	12.00/M	ECJ-1VC2A101J
		50	.5pF	±0.25pF	0.80	PCC0R5CVCT-ND•	.31	2.11	7.14	11.56	PCC0R5CVTR-ND	4,000	9.00/M	ECJ-1VC1H0R5C
			1pF	±0.25pF	0.80	PCC010CVCT-ND•	.31	2.11	7.14	11.56	PCC010CVTR-ND	4,000	9.00/M	ECJ-1VC1H010C
			1.5pF	±0.25pF	0.80	PCC1R5CVCT-ND•	.31	2.11	7.14	11.56	PCC1R5CVTR-ND	4,000	9.00/M	ECJ-1VC1H1R5C
			2pF	±0.25pF	0.80	PCC020CVCT-ND•	.31	2.11	7.14	11.56	PCC020CVTR-ND	4,000	9.00/M	ECJ-1VC1H020C
			3pF	±0.25pF	0.80	PCC030CVCT-ND•	.31	2.11	7.14	11.56	PCC030CVTR-ND	4,000	9.00/M	ECJ-1VC1H030C
			4pF	±0.25pF	0.80	PCC040CVCT-ND•	.31	2.11	7.14	11.56	PCC040CVTR-ND	4,000	9.00/M	ECJ-1VC1H040C
			5pF	±0.25pF	0.80	PCC050CVCT-ND•	.31	2.11	7.14	11.56	PCC050CVTR-ND	4,000	9.00/M	ECJ-1VC1H050C
			6pF	±0.5pF	0.80	PCC060CVCT-ND•	.31	2.11	7.14	11.56	PCC060CVTR-ND	4,000	9.00/M	ECJ-1VC1H060D
			7pF	±0.5pF	0.80	PCC070CVCT-ND•	.31	2.11	7.14	11.56	PCC070CVTR-ND	4,000	9.00/M	ECJ-1VC1H070D
			8pF	±0.5pF	0.80	PCC080CVCT-ND•	.31	2.11	7.14	11.56	PCC080CVTR-ND	4,000	9.00/M	ECJ-1VC1H080D
			9pF	±0.5pF	0.80	PCC090CVCT-ND•	.31	2.11	7.14	11.56	PCC090CVTR-ND	4,000	9.00/M	ECJ-1VC1H090D
			10pF	±0.5pF	0.80	PCC100CVCT-ND•	.31	2.11	7.14	11.56	PCC100CVTR-ND	4,000	9.00/M	ECJ-1VC1H100D
			12pF	±5%	0.80	PCC120ACVCT-ND	.31	2.11	7.14	11.56	PCC120ACVTR-ND	4,000	9.00/M	ECJ-1VC1H120J
			15pF	±5%	0.80	PCC150ACVCT-ND•	.31	2.11	7.14	11.56	PCC150ACVTR-ND	4,000	9.00/M	ECJ-1VC1H150J
			18pF	±5%	0.80	PCC180ACVCT-ND•	.31	2.11	7.14	11.56	PCC180ACVTR-ND	4,000	9.00/M	ECJ-1VC1H180J
			22pF	±5%	0.80	PCC220ACVCT-ND•	.31	2.11	7.14	11.56	PCC220ACVTR-ND	4,000	9.00/M	ECJ-1VC1H220J
			27pF	±5%	0.80	PCC270ACVCT-ND•	.31	2.11	7.14	11.56	PCC270ACVTR-ND	4,000	9.00/M	ECJ-1VC1H270J
			33pF	±5%	0.80	PCC330ACVCT-ND•	.31	2.11	7.14	11.56	PCC330ACVTR-ND	4,000	9.00/M	ECJ-1VC1H330J
			39pF	±5%	0.80	PCC390ACVCT-ND•	.31	2.11	7.14	11.56	PCC390ACVTR-ND	4,000	9.00/M	ECJ-1VC1H390J
			47pF	±5%	0.80	PCC470ACVCT-ND•	.31	2.11	7.14	11.56	PCC470ACVTR-ND	4,000	9.00/M	ECJ-1VC1H470J
			56pF	±5%	0.80	PCC560ACVCT-ND•	.31	2.11	7.14	11.56	PCC560ACVTR-ND	4,000	9.00/M	ECJ-1VC1H560J
			68pF	±5%	0.80	PCC680ACVCT-ND•	.31	2.11	7.14	11.56	PCC680ACVTR-ND	4,000	9.00/M	ECJ-1VC1H680J
			82pF	±5%	0.80	PCC820ACVCT-ND•	.31	2.11	7.14	11.56	PCC820ACVTR-ND	4,000	9.00/M	ECJ-1VC1H820J
			100pF	±5%	0.80	PCC101ACVCT-ND•	.31	2.11	7.14	11.56	PCC101ACVTR-ND	4,000	9.00/M	ECJ-1VC1H101J
			120pF	±5%	0.80	PCC121ACVCT-ND•	.31	2.11	7.14	11.56	PCC121ACVTR-ND	4,000	9.00/M	ECJ-1VC1H121J
			150pF	±5%	0.80	PCC151ACVCT-ND•	.31	2.11	7.14	11.56	PCC151ACVTR-ND	4,000	9.00/M	ECJ-1VC1H151J
			180pF	±5%	0.80	PCC181ACVCT-ND•	.31	2.11	7.14	11.56	PCC181ACVTR-ND	4,000	9.00/M	ECJ-1VC1H181J
			220pF	±5%	0.80	PCC221ACVCT-ND•	.31	2.11	7.14	11.56	PCC221ACVTR-ND	4,000	9.00/M	ECJ-1VC1H221J
			270pF	±5%	0.80	PCC271ACVCT-ND•	.31	2.11	7.14	11.56	PCC271ACVTR-ND	4,000	9.00/M	ECJ-1VC1H271J
			330pF	±5%	0.80	PCC331ACVCT-ND•	.31	2.11	7.14	11.56	PCC331ACVTR-ND	4,000	9.00/M	ECJ-1VC1H331J
			390pF	±5%	0.80	PCC391ACVCT-ND•	.31	2.11	7.14	11.56	PCC391ACVTR-ND	4,000	9.00/M	ECJ-1VC1H391J
			470pF	±5%	0.80	PCC2147CT-ND	.31	2.11	7.14	11.56	PCC2147TR-ND	4,000	9.00/M	ECJ-1VC1H471J
			560pF	±5%	0.80	PCC2148CT-ND	.52	3.47	11.76	19.04	PCC2148TR-ND	4,000	15.00/M	ECJ-1VC1H561J
			680pF	±5%	0.80	PCC2149CT-ND	.52	3.47	11.76	19.04	PCC2149TR-ND	4,000	15.00/M	ECJ-1VC1H681J
			820pF	±5%	0.80	PCC2150CT-ND	.52	3.47	11.76	19.04	PCC2150TR-ND	4,000	15.00/M	ECJ-1VC1H821J
			1000pF	±5%	0.80	PCC2151CT-ND	.64	4.34	14.70	23.80	PCC2151TR-ND	4,000	19.00/M	ECJ-1VC1H102J
	X7R	200	220pF	±10%	0.80	PCC1953CT-ND	.44	3.08	10.64	17.92	PCC1953TR-ND	4,000	15.00/M	ECJ-1VB2D221K
			330pF	±10%	0.80	PCC1954CT-ND	.44	3.08	10.64	17.92	PCC1954TR-ND	4,000	15.00/M	ECJ-1VB2D331K
			470pF	±10%	0.80	PCC1955CT-ND	.44	3.08	10.64	17.92	PCC1955TR-ND	4,000	15.00/M	ECJ-1VB2D471K
			680pF	±10%	0.80	PCC1956CT-ND	.44	3.08	10.64	17.92	PCC1956TR-ND	4,000	15.00/M	ECJ-1VB2D681K
			1000pF	±10%	0.80	PCC1957CT-ND	.44	3.08	10.64	17.92	PCC1957TR-ND	4,000	15.00/M	ECJ-1VB2D102K
		100	220pF	±10%	0.80	PCC1948CT-ND	.40	2.70	9.14	14.79	PCC1948TR-ND	4,000	12.00/M	ECJ-1VB2A221K
			330pF	±10%	0.80	PCC1949CT-ND	.40	2.70	9.14	14.79	PCC1949TR-ND	4,000	12.00/M	ECJ-1VB2A331K
			470pF	±10%	0.80	PCC1950CT-ND	.40	2.70	9.14	14.79	PCC1950TR-ND	4,000	12.00/M	ECJ-1VB2A471K
			680pF	±10%	0.80	PCC1951CT-ND	.40	2.70	9.14	14.79	PCC1951TR-ND	4,000	12.00/M	ECJ-1VB2A681K
			1000pF	±10%	0.80	PCC1952CT-ND	.40	2.70	9.14	14.79	PCC1952TR-ND	4,000	12.00/M	ECJ-1VB2A102K
		50	220pF	±10%	0.80	PCC221BVCT-ND	.83	5.58	18.90	30.60	PCC221BVTR-ND	4,000	24.00/M	ECU-V1H221KBV*
			1000pF	±10%	0.80	PCC1772CT-ND•	.29	1.92	6.51	10.54	PCC1772TR-ND	4,000	8.00/M	ECJ-1VB1H102K
			1200pF	±10%	0.80	PCC1773CT-ND•	.29	1.92	6.51	10.54	PCC1773TR-ND	4,000	8.00/M	ECJ-1VB1H122K
			1500pF	±10%	0.80	PCC1774CT-ND•	.29	1.92	6.51	10.54	PCC1774TR-ND	4,000	8.00/M	ECJ-1VB1H152K
			1800pF	±10%	0.80	PCC1775CT-ND•	.29	1.92	6.51	10.54	PCC1775TR-ND	4,000	8.00/M	ECJ-1VB1H182K
			2200pF	±10%	0.80	PCC1776CT-ND•	.23	1.52	5.15	8.33	PCC1776TR-ND	4,000	7.00/M	ECJ-1VB1H222K
			2700pF	±10%	0.80	PCC1777CT-ND•	.29	1.92	6.51	10.54	PCC1777TR-ND	4,000	8.00/M	ECJ-1VB1H272K
			3300pF	±10%	0.80	PCC1778CT-ND•	.29	1.92	6.51	10.54	PCC1778TR-ND	4,000	8.00/M	ECJ-1VB1H332K
			3900pF	±10%	0.80	PCC1779CT-ND•	.29	1.92	6.51	10.54	PCC1779TR-ND	4,000	8.00/M	ECJ-1VB1H392K
			4700pF	±10%	0.80	PCC1780CT-ND•	.29	1.92	6.51	10.54	PCC1780TR-ND	4,000	8.00/M	ECJ-1VB1H472K
			5600pF	±10%	0.80	PCC1781CT-ND•	.29	1.92	6.51	10.54	PCC1781TR-ND	4,000	8.00/M	ECJ-1VB1H562K
			6800pF	±10%	0.80	PCC1782CT-ND•	.29	1.92	6.51	10.54	PCC1782TR-ND	4,000	8.00/M	ECJ-1VB1H682K
			8200pF	±10%	0.80	PCC1783CT-ND•	.29	1.92	6.51	10.54	PCC1783TR-ND	4,000	8.00/M	ECJ-1VB1H822K
			10000pF	±10%	0.80	PCC1784CT-ND•	.27	1.83	6.20	10.03	PCC1784TR-ND	4,000	8.00/M	ECJ-1VB1H103K
			12000pF	±10%	0.80	PCC123BVCT-ND	.47	3.17	10.75	17.41	PCC123BVTR-ND	4,000	14.00/M	ECU-V1H123KBV*
			12000pF	±10%	0.80	PCC1785CT-ND•	.34	2.26	7.67	12.41	PCC1785TR-ND	4,000	10.00/M	ECJ-1VB1H123K
			15000pF	±10%	0.80	PCC1786CT-ND•	.34	2.26	7.67	12.41	PCC1786TR-ND	4,000	10.00/M	ECJ-1VB1H153K
			.018µF	±10%	0.80	PCC2281CT-ND	.34	2.26	7.67	11.68	PCC2281TR-ND	4,000	10.00/M	ECJ-1VB1H183K
			.022µF	±10%	0.80	PCC2282CT-ND	.34	2.26	7.67	11.68	PCC2282TR-ND	4,000	10.00/M	ECJ-1VB1H223K
			.027µF	±10%	0.80	PCC2283CT-ND	.58	3.94	13.34	20.32	PCC2283TR-ND	4,000	17.00/M	ECJ-1VB1H273K
			.033µF	±10%	0.80	PCC2284CT-ND	.58	3.94	13.34	20.32	PCC2284TR-ND	4,000	17.00/M	ECJ-1VB1H333K
			.039µF	±10%	0.80	PCC2285CT-ND	.58	3.94	13.34	20.32	PCC2285TR-ND	4,000	17.00/M	ECJ-1VB1H393K
			.047µF	±10%	0.80	PCC2286CT-ND	.58	3.94	13.34	20.32	PCC2286TR-ND	4,000	17.00/M	ECJ-1VB1H473K
			.1µF	±10%	0.80	PCC2398CT-ND	.90	5.87	18.98	24.15	PCC2398TR-ND	4,000	21.00/M	ECJ-1VB1H104K
		25	10000pF	±10%	0.80	PCC1763CT-ND	.27	1.83	6.20	10.03	PCC1763TR-ND	4,000	8.00/M	ECJ-1VB1E103K
			12000pF	±10%	0.80	PCC1764CT-ND	.34	2.26	7.67	12.41	PCC1764TR-ND	4,000	10.00/M	ECJ-1VB1E123K
			15000pF	±10%	0.80	PCC1765CT-ND	.34	2.26	7.67	12.41	PCC1765TR-ND	4,000	10.00/M	ECJ-1VB1E153K
			18000pF	±10%	0.80	PCC1766CT-ND•	.34	2.26	7.67	12.41	PCC1766TR-ND	4,000	10.00/M	ECJ-1VB1E183K
			22000pF	±10%	0.80	PCC1767CT-ND•	.34	2.26	7.67	12.41	PCC1767TR-ND	4,000	10.00/M	ECJ-1VB1E223K
			27000pF	±10%	0.80	PCC1768CT-ND•	.34	2.26	7.67	12.41	PCC1768TR-ND	4,000	10.00/M	ECJ-1VB1E273K
			33000pF	±10%	0.80	PCC1769CT-ND•	.34	2.26	7.67	12.41	PCC1769TR-ND	4,000	10.00/M	ECJ-1VB1E333K
			39000pF	±10%	0.80	PCC1770CT-ND•	.34	2.26	7.67	12.41	PCC1770TR-ND	4,000	10.00/M	ECJ-1VB1E393K
			47000pF	±10%	0.80	PCC1771CT-ND•	.34	2.26	7.67	12.41	PCC1771TR-ND	4,000	10.00/M	ECJ-1VB1E473K
			.056µF	±10%	0.80	PCC2278CT-ND	.45	3.04	10.29	15.68	PCC2278TR-ND	4,000	13.00/M	ECJ-1VB1E563K
			.068µF	±10%	0.80	PCC2279CT-ND	.45	3.04	10.29	15.68	PCC2279TR-ND	4,000	13.00/M	ECJ-1VB1E683K
			.082µF	±10%	0.80	PCC2280CT-ND	.45	3.04	10.29	15.68	PCC2280TR-ND	4,000	13.00/M	ECJ-1VB1E823K
			.1µF	±10%	0.80	PCC2277CT-ND	.45	3.04	10.29	15.68	PCC2277TR-ND	4,000	13.00/M	ECJ-1VB1E104K
		16	10000pF	±10%	0.80	PCC1750CT-ND	.35	2.36	7.98	12.92	PCC1750TR-ND	4,000	10.00/M	ECJ-1VB1C103K
			12000pF	±10%	0.80	PCC1751CT-ND	.35	2.36	7.98	12.92	PCC1751TR-ND	4,000	10.00/M	ECJ-1VB1C123K
			15000pF	±10%	0.80	PCC1752CT-ND	.35	2.36	7.98	12.92	PCC1752TR-ND	4,000	10.00/M	ECJ-1VB1C153K
			18000pF	±10%	0.80	PCC1753CT-ND	.35	2.36	7.98	12.92	PCC1753TR-ND	4,000	10.00/M	ECJ-1VB1C183K
			22000pF	±10%	0.80	PCC1754CT-ND	.35	2.36	7.98	12.92	PCC1754TR-ND	4,000	10.00/M	ECJ-1VB1C223K
			27000pF	±10%	0.80	PCC1755CT-ND	.35	2.36	7.98	12.92	PCC1755TR-ND	4,000	10.00/M	ECJ-1VB1C273K
			33000pF	±10%	0.80	PCC1756CT-ND	.35	2.36	7.98	12.92	PCC1756TR-ND	4,000	10.00/M	ECJ-1VB1C333K
			39000pF	±10%	0.80	PCC1757CT-ND	.35	2.36	7.98	12.92	PCC1757TR-ND	4,000	10.00/M	ECJ-1VB1C393K
			47000pF	±10%	0.80	PCC1758CT-ND	.35	2.36	7.98	12.92	PCC1758TR-ND	4,000	10.00/M	ECJ-1VB1C473K

‡ Reduced DC Bias Voltage Characteristics * Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 *(Cont.)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
							10	100	500	1,000		Size	Pricing	
0603	X7R	16	56000pF	±10%	0.80	PCC1759CT-ND•	.35	2.36	7.98	12.92	PCC1759TR-ND	4,000	10.00/M	ECJ-1VB1C563K
			68000pF	±10%	0.80	PCC1760CT-ND•	.35	2.36	7.98	12.92	PCC1760TR-ND	4,000	10.00/M	ECJ-1VB1C683K
			82000pF	±10%	0.80	PCC1761CT-ND•	.35	2.36	7.98	12.92	PCC1761TR-ND	4,000	10.00/M	ECJ-1VB1C823K
			.1µF	±10%	0.80	PCC1762CT-ND•	.35	2.36	7.98	12.92	PCC1762TR-ND	4,000	10.00/M	ECJ-1VB1C104K
	X5R	25	1µF	±10%	0.80	PCC2422CT-ND ***NEW!***	2.12	13.86	44.83	57.05	PCC2422TR-ND ***NEW!***	4,000	51.00/M	ECJ-1VB1E105K
		16	1.0µF	±10%	0.80	PCC2224CT-ND	.87	6.20	22.32	34.72	PCC2224TR-ND	4,000	32.00/M	ECJ-1VB1C105K
		10	.12µF	±10%	0.80	PCC1906CT-ND•	1.76	12.38	42.75	72.00	PCC1906TR-ND	4,000	59.00/M	ECJ-1VB1A124K
			.15µF	±10%	0.80	PCC1748CT-ND•	.30	2.09	7.22	12.16	PCC1748TR-ND	4,000	10.00/M	ECJ-1VB1A154K
			.18µF	±10%	0.80	PCC1907CT-ND•	1.79	12.65	43.70	73.60	PCC1907TR-ND	4,000	60.00/M	ECJ-1VB1A184K
			.22µF	±10%	0.80	PCC1749CT-ND•	.46	3.25	11.21	18.88	PCC1749TR-ND	4,000	15.00/M	ECJ-1VB1A224K
			.33µF	±10%	0.80	PCC2274CT-ND	.46	3.25	11.21	18.88	PCC2274TR-ND	4,000	16.00/M	ECJ-1VB1A334K
			.47µF	±10%	0.80	PCC2275CT-ND	.46	3.25	11.21	18.88	PCC2275TR-ND	4,000	16.00/M	ECJ-1VB1A474K
			.68µF	±10%	0.80	PCC2276CT-ND	.97	6.54	22.16	33.76	PCC2276TR-ND	4,000	28.00/M	ECJ-1VB1A684K
			1µF	±10%	0.80	PCC2174CT-ND	.74	5.28	18.99	31.65	PCC2174TR-ND	4,000	27.00/M	ECJ-1VB1A105K
			2.2µF	±20%	0.80	PCC2365CT-ND	1.35	9.08	29.70	46.20	PCC2365TR-ND	4,000	44.00/M	ECJ-1VB1A225M
			2.2µF	±10%	0.80	PCC2397CT-ND	1.73	11.22	34.65	49.50	PCC2397TR-ND	4,000	48.00/M	ECJ-1VB1A225K
		6.3	.27µF	±10%	0.80	PCC1908CT-ND	2.34	16.50	57.00	96.00	PCC1908TR-ND	4,000	78.00/M	ECJ-1VB0J274K
			.33µF	±10%	0.80	PCC1909CT-ND	2.34	16.50	57.00	96.00	PCC1909TR-ND	4,000	78.00/M	ECJ-1VB0J334K
			.39µF	±10%	0.80	PCC1910CT-ND	2.34	16.50	57.00	96.00	PCC1910TR-ND	4,000	78.00/M	ECJ-1VB0J394K
			.47µF	±10%	0.80	PCC1911CT-ND	.45	3.19	11.02	18.56	PCC1911TR-ND	4,000	15.00/M	ECJ-1VB0J474K
			.56µF	±10%	0.80	PCC1912CT-ND	2.42	17.05	58.90	99.20	PCC1912TR-ND	4,000	81.00/M	ECJ-1VB0J564K
			.68µF	±10%	0.80	PCC1913CT-ND	.45	3.19	11.02	18.56	PCC1913TR-ND	4,000	15.00/M	ECJ-1VB0J684K
			.82µF	±10%	0.80	PCC1914CT-ND	2.50	17.60	60.80	102.40	PCC1914TR-ND	4,000	83.00/M	ECJ-1VB0J824K
			1µF	±10%	0.80	PCC1915CT-ND•	.51	3.63	12.54	21.12	PCC1915TR-ND	4,000	17.00/M	ECJ-1VB0J105K
			2.2µF	±10%	0.80	PCC2273CT-ND	1.17	8.25	28.50	45.00	PCC2273TR-ND	4,000	39.00/M	ECJ-1VB0J225K
			2.2µF	±10%	0.80	PCC13494CT-ND† ***NEW!***	2.28	14.88	48.13	61.25	PCC13494TR-ND† ***NEW!***	4,000	54.00/M	ECJ-1VBFJ225K
			4.7µF	±10%	0.80	PCC2396CT-ND	1.97	12.75	39.38	56.25	PCC2396TR-ND	4,000	54.00/M	ECJ-1VB0J475K
			4.7µF	±10%	0.80	PCC13495CT-ND† ***NEW!***	2.29	14.86	45.89	65.55	PCC13495TR-ND† ***NEW!***	4,000	63.00/M	ECJ-1VBFJ475K
			4.7µF	±20%	0.80	PCC2318CT-ND	1.46	10.31	35.63	56.25	PCC2318TR-ND	4,000	49.00/M	ECJ-1VB0J475M
			10µF	±20%	0.80	PCC2395CT-ND	4.10	27.50	90.00	140.00	PCC2395TR-ND	4,000	133.00/M	ECJ-1VB0J106M
		4.0	10µF	±20%	0.80	PCC2367CT-ND	3.25	21.49	81.18	128.93	PCC2367TR-ND	4,000	124.00/M	ECJ-1VB0G106M
	X5S	25	1.0µF	±20%	0.80	PCC2354CT-ND	1.67	11.77	40.66	64.20	PCC2354TR-ND	4,000	56.00/M	ECJ-1V41E105M
	Y5V	50	1500pF	+80%/-20%	0.80	PCC1796CT-ND	.70	4.75	16.08	26.03	PCC1796TR-ND	4,000	21.00/M	ECU-V1H152ZFV*
			10000pF	+80%/-20%	0.80	PCC1801CT-ND	.29	1.92	6.51	10.54	PCC1801TR-ND	4,000	8.00/M	ECJ-1VF1H103Z
			15000pF	+80%/-20%	0.80	PCC1802CT-ND	.69	4.65	15.75	25.50	PCC1802TR-ND	4,000	20.00/M	ECJ-1VF1H153Z
			22000pF	+80%/-20%	0.80	PCC1803CT-ND	.31	2.08	7.04	11.39	PCC1803TR-ND	4,000	9.00/M	ECJ-1VF1H223Z
			33000pF	+80%/-20%	0.80	PCC1804CT-ND	.87	5.89	19.95	32.30	PCC1804TR-ND	4,000	26.00/M	ECJ-1VF1H333Z
			47000pF	+80%/-20%	0.80	PCC1805CT-ND	.31	2.08	7.04	11.39	PCC1805TR-ND	4,000	9.00/M	ECJ-1VF1H473Z
			68000pF	+80%/-20%	0.80	PCC2152CT-ND	1.15	7.75	26.25	42.50	PCC2152TR-ND	4,000	34.00/M	ECJ-1VF1H683Z
			.1µF	+80%/-20%	0.80	PCC2153CT-ND	.36	2.45	8.30	13.43	PCC2153TR-ND	4,000	11.00/M	ECJ-1VF1H104Z
		25	68000pF	+80%/-20%	0.80	PCC1793CT-ND	1.10	7.44	25.20	40.80	PCC1793TR-ND	4,000	32.00/M	ECJ-1VF1E683Z
			.1µF	+80%/-20%	0.80	PCC1794CT-ND	.33	2.20	7.46	12.07	PCC1794TR-ND	4,000	10.00/M	ECJ-1VF1E104Z
		16	.1µF	+80%/-20%	0.80	PCC1788CT-ND	.27	1.80	6.09	9.86	PCC1788TR-ND	4,000	8.00/M	ECJ-1VF1C104Z
			.15µF	+80%/-20%	0.80	PCC1789CT-ND	1.01	6.82	23.10	37.40	PCC1789TR-ND	4,000	30.00/M	ECJ-1VF1C154Z
			.22µF	+80%/-20%	0.80	PCC1790CT-ND	.38	2.57	8.72	14.11	PCC1790TR-ND	4,000	11.00/M	ECJ-1VF1C224Z
			.33µF	+80%/-20%	0.80	PCC1791CT-ND	1.38	9.30	31.50	51.00	PCC1791TR-ND	4,000	41.00/M	ECJ-1VF1C334Z
			.47µF	+80%/-20%	0.80	PCC1792CT-ND	.38	2.57	8.72	14.11	PCC1792TR-ND	4,000	11.00/M	ECJ-1VF1C474Z
		10	.68µF	+80%/-20%	0.80	PCC2154CT-ND	1.91	13.48	46.55	78.40	PCC2154TR-ND	4,000	64.00/M	ECJ-1VF1A684Z
			1µF	+80%/-20%	0.80	PCC1787CT-ND	.36	2.53	8.74	14.72	PCC1787TR-ND	4,000	12.00/M	ECJ-1VF1A105Z
		6.3	2.2µF	+80%/-20%	0.80	PCC2181CT-ND	1.08	7.73	27.81	46.35	PCC2181TR-ND	4,000	40.00/M	ECJ-1VF0J225Z
	F	25	1µF	±80%/-20%	0.80	PCC2399CT-ND	.59	3.83	12.38	15.75	PCC2399TR-ND	4,000	14.00/M	ECJ-1VF1E105Z
		16	1µF	+80%/-20%	0.80	PCC2287CT-ND	.52	3.47	11.76	17.92	PCC2287TR-ND	4,000	15.00/M	ECJ-1VF1C105Z
		10	2.2µF	+80%/-20%	0.80	PCC2229CT-ND	1.17	8.35	30.06	46.76	PCC2229TR-ND	4,000	43.00/M	ECJ-1VF1A225Z
0612	X7R	50	15000pF	±10%	0.85	PCC2173CT-ND	3.08	22.00	79.18	131.97	PCC2173TR-ND	4,000	114.00/M	ECY-39RH153KV
		16	.33µF	±10%	0.85	PCC2185CT-ND	7.80	55.72	200.58	334.31	PCC2185TR-ND	4,000	290.00/M	ECY-39RC334KV
	X5R	50	.1µF	±10%	0.85	PCC2313CT-ND	2.39	16.83	58.14	91.80	PCC2313TR-ND	4,000	80.00/M	ECY-39RH104KV
		16	1µF	±10%	0.85	PCC2186CT-ND	2.43	17.33	62.37	103.95	PCC2186TR-ND	4,000	90.00/M	ECY-39RC105KV
		6.3	10µF	±20%	0.85	PCC2355CT-ND	13.32	99.88	355.12	590.39	PCC2355TR-ND	4,000	568.00/M	ECY-39RJ106MV
0805	NPO	200	10pF	±0.5pF	0.85	PCC1971CT-ND	1.10	7.85	28.26	47.10	PCC1971TR-ND	4,000	41.00/M	ECJ-2VC2D100D
			15pF	±5%	0.85	PCC1972CT-ND	1.10	7.85	28.26	47.10	PCC1972TR-ND	4,000	41.00/M	ECJ-2VC2D150J
			22pF	±5%	0.85	PCC1973CT-ND	1.10	7.85	28.26	47.10	PCC1973TR-ND	4,000	41.00/M	ECJ-2VC2D220J
			33pF	±5%	0.85	PCC1974CT-ND	1.10	7.85	28.26	47.10	PCC1974TR-ND	4,000	41.00/M	ECJ-2VC2D330J
			47pF	±5%	0.85	PCC1975CT-ND	1.10	7.85	28.26	47.10	PCC1975TR-ND	4,000	41.00/M	ECJ-2VC2D470J
			68pF	±5%	1.25	PCC1976CT-ND	3.78	27.00	97.20	162.00	PCC1976TR-ND	2,000	151.00/M	ECJ-2YC2D680J
			100pF	±5%	1.25	PCC1977CT-ND	3.82	27.25	98.10	163.50	PCC1977TR-ND	2,000	153.00/M	ECJ-2YC2D101J
			150pF	±5%	1.25	PCC1978CT-ND	3.96	28.25	101.70	169.50	PCC1978TR-ND	2,000	158.00/M	ECJ-2YC2D151J
			220pF	±5%	1.25	PCC1979CT-ND	3.96	28.25	101.70	169.50	PCC1979TR-ND	2,000	158.00/M	ECJ-2YC2D221J
			330pF	±5%	1.25	PCC1980CT-ND	3.96	28.25	101.70	169.50	PCC1980TR-ND	2,000	158.00/M	ECJ-2YC2D331J
		100	10pF	±0.5pF	0.85	PCC1958CT-ND	1.09	7.67	26.51	44.64	PCC1958TR-ND	4,000	36.00/M	ECJ-2VC2A100D
			15pF	±5%	0.85	PCC1959CT-ND	1.09	7.67	26.51	44.64	PCC1959TR-ND	4,000	36.00/M	ECJ-2VC2A150J
			22pF	±5%	0.85	PCC1960CT-ND	1.09	7.67	26.51	44.64	PCC1960TR-ND	4,000	36.00/M	ECJ-2VC2A220J
			33pF	±5%	0.85	PCC1961CT-ND	1.09	7.67	26.51	44.64	PCC1961TR-ND	4,000	36.00/M	ECJ-2VC2A330J
			47pF	±5%	0.85	PCC1962CT-ND	1.09	7.67	26.51	44.64	PCC1962TR-ND	4,000	36.00/M	ECJ-2VC2A470J
			68pF	±5%	0.85	PCC1963CT-ND	1.22	8.58	29.64	49.92	PCC1963TR-ND	4,000	41.00/M	ECJ-2VC2A680J
			100pF	±5%	0.85	PCC1964CT-ND	1.22	8.58	29.64	49.92	PCC1964TR-ND	4,000	41.00/M	ECJ-2VC2A101J
			150pF	±5%	0.85	PCC1965CT-ND	1.22	8.58	29.64	49.92	PCC1965TR-ND	4,000	41.00/M	ECJ-2VC2A151J
			220pF	±5%	0.85	PCC1966CT-ND	1.22	8.58	29.64	49.92	PCC1966TR-ND	4,000	41.00/M	ECJ-2VC2A221J
			330pF	±5%	0.85	PCC1967CT-ND	1.22	8.58	29.64	49.92	PCC1967TR-ND	4,000	41.00/M	ECJ-2VC2A331J
			470pF	±5%	0.85	PCC1968CT-ND	1.22	8.58	29.64	49.92	PCC1968TR-ND	4,000	41.00/M	ECJ-2VC2A471J
			680pF	±5%	0.85	PCC1969CT-ND	1.09	7.80	28.08	46.80	PCC1969TR-ND	4,000	41.00/M	ECJ-2VC2A681J
			1000pF	±5%	0.85	PCC1970CT-ND	1.29	9.23	33.21	55.35	PCC1970TR-ND	4,000	48.00/M	ECJ-2VC2A102J
		50	.5pF	±0.25pF	0.60	PCC0R5CNCT-ND•	.97	6.51	22.05	33.60	PCC0R5CNTR-ND	5,000	28.00/M	ECJ-2VC1H0R5C
			1.0pF	±0.25pF	0.60	PCC010CNCT-ND•	.97	6.51	22.05	33.60	PCC010CNTR-ND	5,000	28.00/M	ECJ-2VC1H010C
			1.5pF	±0.25pF	0.60	PCC1R5CNCT-ND•	.97	6.51	22.05	33.60	PCC1R5CNTR-ND	5,000	28.00/M	ECJ-2VC1H1R5C
			2.0pF	±0.25pF	0.60	PCC020CNCT-ND•	.97	6.51	22.05	33.60	PCC020CNTR-ND	5,000	28.00/M	ECJ-2VC1H020C
			3.0pF	±0.25pF	0.60	PCC030CNCT-ND•	.97	6.51	22.05	33.60	PCC030CNTR-ND	5,000	28.00/M	ECJ-2VC1H030C
			4.0pF	±0.25pF	0.60	PCC040CNCT-ND•	.97	6.51	22.05	33.60	PCC040CNTR-ND	5,000	28.00/M	ECJ-2VC1H040C
			5.0pF	±0.25pF	0.60	PCC050CNCT-ND•	.97	6.51	22.05	33.60	PCC050CNTR-ND	5,000	28.00/M	ECJ-2VC1H050C
			6.0pF	±0.5pF	0.60	PCC060CNCT-ND•	.97	6.51	22.05	33.60	PCC060CNTR-ND	5,000	28.00/M	ECJ-2VC1H060D
			7.0pF	±0.5pF	0.60	PCC070CNCT-ND•	.97	6.51	22.05	33.60	PCC070CNTR-ND	5,000	28.00/M	ECJ-2VC1H070D
			8.0pF	±0.5pF	0.60	PCC080CNCT-ND•	.97	6.51	22.05	33.60	PCC080CNTR-ND	5,000	28.00/M	ECJ-2VC1H080D
			9.0pF	±0.5pF	0.60	PCC090CNCT-ND•	.97	6.51	22.05	33.60	PCC090CNTR-ND	5,000	28.00/M	ECJ-2VC1H090D
			10pF	±0.5pF	0.60	PCC100CNCT-ND•	.97	6.51	22.05	33.60	PCC100CNTR-ND	5,000	28.00/M	ECJ-2VC1H100D
			12pF	±5%	0.60	PCC120CNCT-ND	.97	6.51	22.05	33.60	PCC120CNTR-ND	5,000	28.00/M	ECJ-2VC1H120J
			15pF	±5%	0.60	PCC150CNCT-ND•	.97	6.51	22.05	33.60	PCC150CNTR-ND	5,000	28.00/M	ECJ-2VC1H150J
			18pF	±5%	0.60	PCC180CNCT-ND	.97	6.51	22.05	33.60	PCC180CNTR-ND	5,000	28.00/M	ECJ-2VC1H180J
			22pF	±5%	0.60	PCC220CNCT-ND•	.69	4.65	15.75	24.00	PCC220CNTR-ND	5,000	20.00/M	ECJ-2VC1H220J
			27pF	±5%	0.60	PCC270CGCT-ND	.49	3.32	11.24	17.12	PCC270CGTR-ND	5,000	14.00/M	ECJ-2VC1H270J

‡ Reduced DC Bias Voltage Characteristics * Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Panasonic Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 *(Cont.)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
0805	NPO	50	33pF	±5%	0.60	PCC330CGCT-ND•	.49	3.32	11.24	17.12	PCC330CGTR-ND	5,000	14.00/M	ECJ-2VC1H330J
			39pF	±5%	0.60	PCC390CGCT-ND	.49	3.32	11.24	17.12	PCC390CGTR-ND	5,000	14.00/M	ECJ-2VC1H390J
			47pF	±5%	0.60	PCC470CGCT-ND•	.49	3.32	11.24	17.12	PCC470CGTR-ND	5,000	14.00/M	ECJ-2VC1H470J
			56pF	±5%	0.60	PCC560CGCT-ND	.49	3.32	11.24	17.12	PCC560CGTR-ND	5,000	14.00/M	ECJ-2VC1H560J
			68pF	±5%	0.60	PCC680CGCT-ND•	.49	3.32	11.24	17.12	PCC680CGTR-ND	5,000	14.00/M	ECJ-2VC1H680J
			82pF	±5%	0.60	PCC820CGCT-ND	.49	3.32	11.24	17.12	PCC820CGTR-ND	5,000	14.00/M	ECJ-2VC1H820J
			100pF	±5%	0.60	PCC101CGCT-ND•	.49	3.32	11.24	17.12	PCC101CGTR-ND	5,000	14.00/M	ECJ-2VC1H101J
			120pF	±5%	0.60	PCC121CGCT-ND•	.49	3.32	11.24	17.12	PCC121CGTR-ND	5,000	14.00/M	ECJ-2VC1H121J
			150pF	±5%	0.60	PCC151CGCT-ND•	.49	3.32	11.24	17.12	PCC151CGTR-ND	5,000	14.00/M	ECJ-2VC1H151J
			180pF	±5%	0.60	PCC181CGCT-ND•	.49	3.32	11.24	17.12	PCC181CGTR-ND	5,000	14.00/M	ECJ-2VC1H181J
			220pF	±5%	0.60	PCC221CGCT-ND•	.49	3.32	11.24	17.12	PCC221CGTR-ND	5,000	14.00/M	ECJ-2VC1H221J
			270pF	±5%	0.60	PCC271CGCT-ND•	.49	3.32	11.24	17.12	PCC271CGTR-ND	5,000	14.00/M	ECJ-2VC1H271J
			330pF	±5%	0.60	PCC331CGCT-ND•	.49	3.32	11.24	17.12	PCC331CGTR-ND	5,000	14.00/M	ECJ-2VC1H331J
			390pF	±5%	0.60	PCC391CGCT-ND•	.49	3.32	11.24	17.12	PCC391CGTR-ND	5,000	14.00/M	ECJ-2VC1H391J
			470pF	±5%	0.60	PCC471CGCT-ND•	.49	3.32	11.24	17.12	PCC471CGTR-ND	5,000	14.00/M	ECJ-2VC1H471J
			560pF	±5%	0.60	PCC561CGCT-ND•	.49	3.32	11.24	17.12	PCC561CGTR-ND	5,000	14.00/M	ECJ-2VC1H561J
			680pF	±5%	0.60	PCC681CGCT-ND•	.49	3.32	11.24	17.12	PCC681CGTR-ND	5,000	14.00/M	ECJ-2VC1H681J
			820pF	±5%	0.60	PCC821CGCT-ND•	.76	5.12	17.33	26.40	PCC821CGTR-ND	5,000	22.00/M	ECJ-2VC1H821J
			1000pF	±5%	0.60	PCC102CGCT-ND•	.76	5.12	17.33	26.40	PCC102CGTR-ND	5,000	22.00/M	ECJ-2VC1H102J
			1200pF	±5%	0.60	PCC2155CT-ND	1.61	10.82	36.65	55.84	PCC2155TR-ND	5,000	45.00/M	ECJ-2VC1H122J
			1500pF	±5%	0.60	PCC2156CT-ND	1.61	10.82	36.65	55.84	PCC2156TR-ND	5,000	45.00/M	ECJ-2VC1H152J
			1800pF	±5%	0.60	PCC2157CT-ND	2.14	14.42	48.83	74.40	PCC2157TR-ND	5,000	60.00/M	ECJ-2VC1H182J
			2200pF	±5%	0.60	PCC2158CT-ND	2.14	14.42	48.83	74.40	PCC2158TR-ND	5,000	60.00/M	ECJ-2VC1H222J
			2700pF	±5%	0.60	PCC2159CT-ND	2.14	14.42	48.83	74.40	PCC2159TR-ND	4,000	60.00/M	ECJ-2VC1H272J
	X7R	200	220pF	±10%	0.85	PCC1993CT-ND	.73	5.20	18.72	31.20	PCC1993TR-ND	4,000	27.00/M	ECJ-2VB2D221K
			330pF	±10%	0.85	PCC1994CT-ND	.73	5.20	18.72	31.20	PCC1994TR-ND	4,000	27.00/M	ECJ-2VB2D331K
			470pF	±10%	0.85	PCC1995CT-ND	.73	5.20	18.72	31.20	PCC1995TR-ND	4,000	27.00/M	ECJ-2VB2D471K
			680pF	±10%	0.85	PCC1996CT-ND	.73	5.20	18.72	31.20	PCC1996TR-ND	4,000	27.00/M	ECJ-2VB2D681K
			1000pF	±10%	0.85	PCC1997CT-ND	.73	5.20	18.72	31.20	PCC1997TR-ND	4,000	27.00/M	ECJ-2VB2D102K
			1500pF	±10%	0.85	PCC1998CT-ND	.73	5.20	18.72	31.20	PCC1998TR-ND	4,000	27.00/M	ECJ-2VB2D152K
			2200pF	±10%	0.85	PCC1999CT-ND	.73	5.20	18.72	31.20	PCC1999TR-ND	4,000	27.00/M	ECJ-2VB2D222K
			3300pF	±10%	0.85	PCC2000CT-ND	.73	5.20	18.72	31.20	PCC2000TR-ND	4,000	27.00/M	ECJ-2VB2D332K
			4700pF	±10%	0.85	PCC2001CT-ND	.73	5.20	18.72	31.20	PCC2001TR-ND	4,000	27.00/M	ECJ-2VB2D472K
			6800pF	±10%	1.25	PCC2002CT-ND	3.43	24.50	88.20	147.00	PCC2002TR-ND	2,000	137.00/M	ECJ-2YB2D682K
			10000pF	±10%	1.25	PCC2003CT-ND	6.50	47.71	172.55	294.35	PCC2003TR-ND	2,000	274.00/M	ECJ-2YB2D103K
		100	220pF	±10%	0.85	PCC1981CT-ND	.66	4.68	16.15	27.20	PCC1981TR-ND	4,000	22.00/M	ECJ-2VB2A221K
			330pF	±10%	0.85	PCC1982CT-ND	.66	4.68	16.15	27.20	PCC1982TR-ND	4,000	22.00/M	ECJ-2VB2A331K
			470pF	±10%	0.85	PCC1983CT-ND	.66	4.68	16.15	27.20	PCC1983TR-ND	4,000	22.00/M	ECJ-2VB2A471K
			680pF	±10%	0.85	PCC1984CT-ND	.66	4.68	16.15	27.20	PCC1984TR-ND	4,000	22.00/M	ECJ-2VB2A681K
			1000pF	±10%	0.85	PCC1985CT-ND	.66	4.68	16.15	27.20	PCC1985TR-ND	4,000	22.00/M	ECJ-2VB2A102K
			1500pF	±10%	0.85	PCC1986CT-ND	.66	4.68	16.15	27.20	PCC1986TR-ND	4,000	22.00/M	ECJ-2VB2A152K
			2200pF	±10%	0.85	PCC1987CT-ND	.66	4.68	16.15	27.20	PCC1987TR-ND	4,000	22.00/M	ECJ-2VB2A222K
			3300pF	±10%	0.85	PCC1988CT-ND	.66	4.68	16.15	27.20	PCC1988TR-ND	4,000	22.00/M	ECJ-2VB2A332K
			4700pF	±10%	0.85	PCC1989CT-ND	.76	5.39	18.62	31.36	PCC1989TR-ND	4,000	25.00/M	ECJ-2VB2A472K
			6800pF	±10%	0.85	PCC1990CT-ND	.76	5.39	18.62	31.36	PCC1990TR-ND	4,000	25.00/M	ECJ-2VB2A682K
			10000pF	±10%	0.85	PCC1991CT-ND	.94	6.73	24.21	40.35	PCC1991TR-ND	4,000	35.00/M	ECJ-2VB2A103K
			15000pF	±10%	1.25	PCC1992CT-ND	4.27	30.50	109.80	183.00	PCC1992TR-ND	2,000	171.00/M	ECJ-2YB2A153K
		50	1000pF	±10%	0.60	PCC102BNCT-ND•	.54	3.66	12.39	18.88	PCC102BNTR-ND	5,000	16.00/M	ECJ-2VB1H102K
			1200pF	±10%	0.60	PCC122BNCT-ND•	.54	3.66	12.39	18.88	PCC122BNTR-ND	5,000	16.00/M	ECJ-2VB1H122K
			1500pF	±10%	0.60	PCC152BNCT-ND•	.54	3.66	12.39	18.88	PCC152BNTR-ND	5,000	16.00/M	ECJ-2VB1H152K
			1800pF	±10%	0.60	PCC182BNCT-ND•	.54	3.66	12.39	18.88	PCC182BNTR-ND	5,000	16.00/M	ECJ-2VB1H182K
			2200pF	±10%	0.60	PCC222BNCT-ND•	.37	2.48	8.40	12.80	PCC222BNTR-ND	5,000	11.00/M	ECJ-2VB1H222K
			2700pF	±10%	0.60	PCC272BNCT-ND•	.54	3.66	12.39	18.88	PCC272BNTR-ND	5,000	16.00/M	ECJ-2VB1H272K
			3300pF	±10%	0.60	PCC332BNCT-ND•	.54	3.66	12.39	18.88	PCC332BNTR-ND	5,000	16.00/M	ECJ-2VB1H332K
			3900pF	±10%	0.60	PCC392BNCT-ND•	.54	3.66	12.39	18.88	PCC392BNTR-ND	5,000	16.00/M	ECJ-2VB1H392K
			4700pF	±10%	0.60	PCC472BNCT-ND•	.37	2.48	8.40	12.80	PCC472BNTR-ND	5,000	11.00/M	ECJ-2VB1H472K
			5600pF	±10%	0.60	PCC562BNCT-ND•	.54	3.66	12.39	18.88	PCC562BNTR-ND	5,000	16.00/M	ECJ-2VB1H562K
			6800pF	±10%	0.60	PCC682BNCT-ND•	.54	3.66	12.39	18.88	PCC682BNTR-ND	5,000	16.00/M	ECJ-2VB1H682K
			8200pF	±10%	0.60	PCC822BNCT-ND•	.54	3.66	12.39	18.88	PCC822BNTR-ND	5,000	16.00/M	ECJ-2VB1H822K
			10000pF	±10%	0.60	PCC103BNCT-ND•	.54	3.66	12.39	18.88	PCC103BNTR-ND	5,000	16.00/M	ECJ-2VB1H103K
			12000pF	±10%	0.60	PCC123BGCT-ND•	.54	3.66	12.39	18.88	PCC123BGTR-ND	5,000	16.00/M	ECJ-2VB1H123K
			15000pF	±10%	0.60	PCC153BGCT-ND•	.54	3.66	12.39	18.88	PCC153BGTR-ND	5,000	16.00/M	ECJ-2VB1H153K
			18000pF	±10%	0.60	PCC183BGCT-ND•	.54	3.66	12.39	18.88	PCC183BGTR-ND	5,000	16.00/M	ECJ-2VB1H183K
			22000pF	±10%	0.60	PCC223BGCT-ND•	.37	2.48	8.40	12.80	PCC223BGTR-ND	5,000	11.00/M	ECJ-2VB1H223K
			27000pF	±10%	1.00	PCC273BGCT-ND	13.99	94.27	319.31	516.97	PCC273BGTR-ND	4,000	41.00/M	ECU-V1H273KBX*
			27000pF	±10%	0.85	PCC1833CT-ND•	.43	2.91	9.87	15.98	PCC1833TR-ND	4,000	13.00/M	ECJ-2VB1H273K
			33000pF	±10%	0.85	PCC1834CT-ND•	.59	3.97	13.44	21.76	PCC1834TR-ND	4,000	17.00/M	ECJ-2VB1H333K
			39000pF	±10%	0.85	PCC1835CT-ND•	1.00	6.73	22.79	36.89	PCC1835TR-ND	4,000	29.00/M	ECJ-2VB1H393K
			47000pF	±10%	1.25	PCC1836CT-ND•	1.61	10.85	36.75	59.50	PCC1836TR-ND	2,000	56.00/M	ECJ-2YB1H473K
			56000pF	±10%	1.25	PCC1837CT-ND•	1.61	10.85	36.75	59.50	PCC1837TR-ND	2,000	56.00/M	ECJ-2YB1H563K
			68000pF	±10%	1.25	PCC1838CT-ND•	1.61	10.85	36.75	59.50	PCC1838TR-ND	2,000	56.00/M	ECJ-2YB1H683K
			82000pF	±10%	1.25	PCC1839CT-ND•	1.61	10.85	36.75	59.50	PCC1839TR-ND	2,000	56.00/M	ECJ-2YB1H823K
			.1µF	±10%	1.25	PCC1840CT-ND•	1.61	10.85	36.75	59.50	PCC1840TR-ND	2,000	56.00/M	ECJ-2YB1H104K
		25	39000pF	±10%	0.85	PCC1819CT-ND	1.10	7.44	25.20	40.80	PCC1819TR-ND	4,000	32.00/M	ECJ-2VB1E393K
			47000pF	±10%	0.85	PCC1820CT-ND	.62	4.19	14.18	22.95	PCC1820TR-ND	4,000	18.00/M	ECJ-2VB1E473K
			56000pF	±10%	0.85	PCC1825CT-ND	.62	4.19	14.18	22.95	PCC1825TR-ND	4,000	18.00/M	ECJ-2VB1E563K
			68000pF	±10%	0.85	PCC1826CT-ND	.62	4.19	14.18	22.95	PCC1826TR-ND	4,000	18.00/M	ECJ-2VB1E683K
			82000pF	±10%	0.85	PCC1827CT-ND	.62	4.19	14.18	22.95	PCC1827TR-ND	4,000	18.00/M	ECJ-2VB1E823K
			.1µF	±10%	0.85	PCC1828CT-ND	.62	4.19	14.18	22.95	PCC1828TR-ND	4,000	18.00/M	ECJ-2VB1E104K
			.12µF	±10%	1.25	PCC1829CT-ND•	1.44	10.18	35.15	59.20	PCC1829TR-ND	2,000	56.00/M	ECJ-2YB1E124K
			.15µF	±10%	1.25	PCC1830CT-ND•	1.48	10.45	36.10	60.80	PCC1830TR-ND	2,000	57.00/M	ECJ-2YB1E154K
			.18µF	±10%	1.25	PCC1831CT-ND•	1.52	10.73	37.05	62.40	PCC1831TR-ND	2,000	59.00/M	ECJ-2YB1E184K
			.22µF	±10%	1.25	PCC1832CT-ND•	1.91	13.48	46.55	78.40	PCC1832TR-ND	2,000	74.00/M	ECJ-2YB1E224K
		16	47000pF	±10%	0.85	PCC1808CT-ND	1.20	8.06	27.30	44.20	PCC1808TR-ND	4,000	35.00/M	ECJ-2VB1C473K
			56000pF	±10%	0.85	PCC1809CT-ND	1.33	8.99	30.45	49.30	PCC1809TR-ND	4,000	39.00/M	ECJ-2VB1C563K
			68000pF	±10%	0.85	PCC1810CT-ND	1.25	8.80	30.40	51.20	PCC1810TR-ND	4,000	42.00/M	ECJ-2VB1C683K
			82000pF	±10%	0.85	PCC1811CT-ND	1.25	8.80	30.40	51.20	PCC1811TR-ND	4,000	42.00/M	ECJ-2VB1C823K
			.1µF	±10%	0.85	PCC1812CT-ND	.74	5.20	17.96	30.24	PCC1812TR-ND	4,000	25.00/M	ECJ-2VB1C104K
			.12µF	±10%	0.85	PCC1813CT-ND	1.44	10.18	35.15	59.20	PCC1813TR-ND	4,000	48.00/M	ECJ-2VB1C124K
			.15µF	±10%	0.85	PCC1814CT-ND	.74	5.20	17.96	30.24	PCC1814TR-ND	4,000	25.00/M	ECJ-2VB1C154K
			.18µF	±10%	0.85	PCC1815CT-ND	2.07	14.75	53.10	88.50	PCC1815TR-ND	4,000	77.00/M	ECJ-2VB1C184K
			.22µF	±10%	0.85	PCC1816CT-ND	.66	4.73	17.01	28.35	PCC1816TR-ND	4,000	25.00/M	ECJ-2VB1C224K
			.27µF	±10%	1.25	PCC1916CT-ND	2.38	17.00	61.20	102.00	PCC1916TR-ND	2,000	95.00/M	ECJ-2YB1C274K
			.33µF	±10%	1.25	PCC1817CT-ND	2.45	17.50	63.00	105.00	PCC1817TR-ND	2,000	98.00/M	ECJ-2YB1C334K
			.39µF	±10%	1.25	PCC1917CT-ND	2.38	17.00	61.20	102.00	PCC1917TR-ND	2,000	95.00/M	ECJ-2YB1C394K
			.47µF	±10%	1.25	PCC1818CT-ND•	2.45	17.50	63.00	105.00	PCC1818TR-ND	2,000	98.00/M	ECJ-2YB1C474K
	X5R	25	1µF	±10%	1.25	PCC2319CT-ND	1.29	9.23	33.21	51.66	PCC2319TR-ND	3,000	50.00/M	ECJ-2FB1E105K
			2.2µF	±10%	1.25	PCC2320CT-ND	1.65	11.66	40.28	63.60	PCC2320TR-ND	3,000	57.00/M	ECJ-2FB1E225K
			4.7µF	±20%	1.25	PCC2321CT-ND	2.29	16.35	58.86	91.56	PCC2321TR-ND	3,000	88.00/M	ECJ-2FB1E475M

‡ Reduced DC Bias Voltage Characteristics   * Not for new design   † Improved DC Bias Voltage Characteristics

(Continued)

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
							10	100	500	1,000		Size	Pricing	
0805	X5R	16	.68µF	±10%	1.25	PCC2290CT-ND	1.28	8.62	29.19	44.48	PCC2290TR-ND	3,000	38.00/M	ECJ-2FB1C684K
			1µF	±10%	0.85	PCC2314CT-ND	1.43	9.64	32.66	49.76	PCC2314TR-ND	4,000	42.00/M	ECJ-GVB1C105K
			1µF	±10%	1.25	PCC2249CT-ND	1.28	8.62	29.19	44.48	PCC2249TR-ND	3,000	38.00/M	ECJ-2FB1C105K
			2.2µF	±20%	0.85	PCC2408CT-ND	2.68	17.34	53.55	76.50	PCC2408TR-ND	4,000	74.00/M	ECJ-GVB1C225M
			2.2µF	±10%	1.25	PCC2322CT-ND	1.61	11.33	39.14	61.80	PCC2322TR-ND	3,000	56.00/M	ECJ-2FB1C225K
			4.7µF	±10%	1.25	PCC2323CT-ND	2.25	16.05	57.78	89.88	PCC2323TR-ND	3,000	87.00/M	ECJ-2FB1C475K
		10	.56µF	±10%	1.25	PCC1918CT-ND	3.99	28.50	102.60	171.00	PCC1918TR-ND	2,000	160.00/M	ECJ-2YB1A564K
			.68µF	±10%	1.25	PCC1806CT-ND	4.10	29.25	105.30	175.50	PCC1806TR-ND	2,000	164.00/M	ECJ-2YB1A684K
			.68µF	±10%	1.25	PCC2289CT-ND	1.15	7.75	26.25	40.00	PCC2289TR-ND	3,000	34.00/M	ECJ-2FB1A684K
			.82µF	±10%	1.25	PCC1919CT-ND	4.03	29.61	107.10	182.70	PCC1919TR-ND	2,000	170.00/M	ECJ-2YB1A824K
			1µF	±10%	1.25	PCC1807CT-ND	4.13	30.32	109.65	187.05	PCC1807TR-ND	2,000	174.00/M	ECJ-2YB1A105K
			2.2µF	±20%	1.25	PCC2175CT-ND	2.40	17.13	61.65	102.75	PCC2175TR-ND	3,000	89.00/M	ECJ-2FB1A225M
			2.2µF	±10%	1.25	PCC2324CT-ND	2.40	17.13	61.65	95.90	PCC2324TR-ND	3,000	92.00/M	ECJ-2FB1A225K
			3.3µF	±10%	1.25	PCC2288CT-ND	2.40	17.13	61.65	95.90	PCC2288TR-ND	3,000	92.00/M	ECJ-2FB1A335K
			4.7µF	±20%	0.85	PCC2407CT-ND	3.76	25.25	82.62	128.52	PCC2407TR-ND	4,000	122.00/M	ECJ-GVB1A475M
			4.7µF	±10%	1.25	PCC2325CT-ND	4.15	29.68	106.83	166.18	PCC2325TR-ND	3,000	160.00/M	ECJ-2FB1A475K
			10µF	±10%	1.25	PCC2403CT-ND	7.93	52.45	198.14	314.69	PCC2403TR-ND	3,000	310.00/M	ECJ-2FB1A106K
		6.3	1.5µF	±10%	1.25	PCC1921CT-ND	4.35	31.96	115.60	197.20	PCC1921TR-ND	2,000	184.00/M	ECJ-2YB0J155K
			2.2µF	±10%	0.85	PCC2310CT-ND	1.79	12.60	43.51	68.70	PCC2310TR-ND	4,000	60.00/M	ECJ-GVB0J225K
			2.2µF	±10%	1.25	PCC1923CT-ND	4.74	34.78	125.80	214.60	PCC1923TR-ND	2,000	200.00/M	ECJ-2YB0J225K
			3.3µF	±10%	1.25	PCC1925CT-ND	5.12	37.60	136.00	232.00	PCC1925TR-ND	2,000	216.00/M	ECJ-2YB0J335K
			4.7µF	±20%	0.85	PCC2315CT-ND	3.18	22.73	81.81	127.26	PCC2315TR-ND	4,000	118.00/M	ECJ-GVB0J475M
			4.7µF	±20%	1.25	PCC2176CT-ND	2.77	19.78	71.19	118.65	PCC2176TR-ND	3,000	103.00/M	ECJ-2FB0J475M
			4.7µF	±10%	1.25	PCC2402CT-ND	3.53	23.65	77.40	120.40	PCC2402TR-ND	3,000	125.00/M	ECJ-2FB0J475K
			4.7µF	±10%	0.85	PCC2406CT-ND	3.53	23.65	77.40	120.40	PCC2406TR-ND	4,000	114.00/M	ECJ-GVB0J475K
			10µF	±20%	0.85	PCC2405CT-ND	4.46	29.50	111.44	176.99	PCC2405TR-ND	4,000	170.00/M	ECJ-GVB0J106M
			10µF	±20%	0.85	PCC2327CT-ND‡	3.89	27.75	99.90	155.40	PCC2327TR-ND‡	4,000	144.00/M	ECJ-CV50J106M
			10µF	±20%	1.25	PCC2225CT-ND	2.70	20.25	72.00	119.70	PCC2225TR-ND	3,000	117.00/M	ECJ-2FB0J106M
			10µF	±10%	1.25	PCC2400CT-ND	3.30	21.83	82.45	130.95	PCC2400TR-ND	3,000	129.00/M	ECJ-2FB0J106K
			22µF	±20%	1.25	PCC2401CT-ND	8.31	62.30	221.52	368.28	PCC2401TR-ND	3,000	360.00/M	ECJ-2FB0J226M
	Y5V	50	10000pF	+80%/-20%	0.60	PCC1858CT-ND	.44	2.95	9.98	15.20	PCC1858TR-ND	5,000	13.00/M	ECJ-2VF1H103Z
			15000pF	+80%/-20%	0.60	PCC1859CT-ND	.60	4.03	13.65	20.80	PCC1859TR-ND	5,000	18.00/M	ECJ-2VF1H153Z
			22000pF	+80%/-20%	0.60	PCC1860CT-ND	.51	3.41	11.55	17.60	PCC1860TR-ND	5,000	15.00/M	ECJ-2VF1H223Z
			33000pF	+80%/-20%	0.60	PCC1861CT-ND	.69	4.65	15.75	24.00	PCC1861TR-ND	5,000	20.00/M	ECJ-2VF1H333Z
			47000pF	+80%/-20%	0.60	PCC1862CT-ND	.58	3.94	13.34	20.32	PCC1862TR-ND	5,000	17.00/M	ECJ-2VF1H473Z
			68000pF	+80%/-20%	0.60	PCC1863CT-ND	.87	5.89	19.95	30.40	PCC1863TR-ND	5,000	26.00/M	ECJ-2VF1H683Z
			.1µF	+80%/-20%	0.85	PCC1864CT-ND	.72	4.84	16.38	26.52	PCC1864TR-ND	4,000	21.00/M	ECJ-2VF1H104Z
			.15µF	+80%/-20%	0.85	PCC1865CT-ND	1.47	9.92	33.60	54.40	PCC1865TR-ND	4,000	43.00/M	ECJ-2VF1H154Z
			.22µF	+80%/-20%	0.85	PCC1866CT-ND	1.00	6.73	22.79	36.89	PCC1866TR-ND	4,000	29.00/M	ECJ-2VF1H224Z
		25	68000pF	+80%/-20%	0.60	PCC1852CT-ND	.87	5.89	19.95	30.40	PCC1852TR-ND	5,000	26.00/M	ECJ-2VF1E683Z
			.1µF	+80%/-20%	0.60	PCC1853CT-ND	.52	3.50	11.87	18.08	PCC1853TR-ND	5,000	15.00/M	ECJ-2VF1E104Z
			.15µF	+80%/-20%	0.60	PCC1854CT-ND	1.20	8.06	27.30	41.60	PCC1854TR-ND	5,000	35.00/M	ECJ-2VF1E154Z
			.22µF	+80%/-20%	0.85	PCC1855CT-ND	.61	4.09	13.86	22.44	PCC1855TR-ND	4,000	18.00/M	ECJ-2VF1E224Z
			.33µF	+80%/-20%	1.25	PCC1856CT-ND	2.30	16.23	56.05	94.40	PCC1856TR-ND	2,000	89.00/M	ECJ-2YF1E334Z
			.47µF	+80%/-20%	1.25	PCC1857CT-ND	2.38	16.78	57.95	97.60	PCC1857TR-ND	2,000	92.00/M	ECJ-2YF1E474Z
		16	.1µF	+80%/-20%	0.60	PCC1843CT-ND	.58	3.88	13.13	20.00	PCC1843TR-ND	5,000	17.00/M	ECJ-2VF1C104Z
			.15µF	+80%/-20%	0.60	PCC1844CT-ND	1.20	8.06	27.30	41.60	PCC1844TR-ND	5,000	35.00/M	ECJ-2VF1C154Z
			.22µF	+80%/-20%	0.60	PCC1845CT-ND	.58	3.88	13.13	20.00	PCC1845TR-ND	5,000	17.00/M	ECJ-2VF1C224Z
			.33µF	+80%/-20%	0.85	PCC1846CT-ND	1.61	10.85	36.75	59.50	PCC1846TR-ND	4,000	47.00/M	ECJ-2VF1C334Z
			.47µF	+80%/-20%	0.85	PCC1847CT-ND	.56	3.96	13.68	23.04	PCC1847TR-ND	4,000	19.00/M	ECJ-2VF1C474Z
			.68µF	+80%/-20%	0.85	PCC1848CT-ND	1.95	13.75	47.50	80.00	PCC1848TR-ND	4,000	65.00/M	ECJ-2VF1C684Z
			1µF	+80%/-20%	0.85	PCC1849CT-ND	.72	5.13	18.45	30.75	PCC1849TR-ND	4,000	27.00/M	ECJ-2VF1C105Z
			1.5µF	+80%/-20%	1.25	PCC1850CT-ND	3.43	24.50	88.20	147.00	PCC1850TR-ND	2,000	137.00/M	ECJ-2YF1C155Z
			2.2µF	+80%/-20%	1.25	PCC1851CT-ND	3.85	27.50	99.00	165.00	PCC1851TR-ND	2,000	154.00/M	ECJ-2YF1C225Z
			2.2µF	+80%/-20%	0.85	PCC2410CT-ND	1.80	11.77	38.09	48.48	PCC2410TR-ND	4,000	43.00/M	ECJ-GVF1C225Z
			4.7µF	+80%/-20%	0.85	PCC2411CT-ND	2.37	15.37	47.46	67.80	PCC2411TR-ND	4,000	66.00/M	ECJ-GVF1C475Z
		10	4.7µF	+80%/-20%	1.25	PCC1842CT-ND	4.42	32.43	117.30	200.10	PCC1842TR-ND	2,000	186.00/M	ECJ-2YF1A475Z
			4.7µF	+80%/-20%	0.85	PCC2409CT-ND	2.55	16.70	54.04	68.78	PCC2409TR-ND	4,000	61.00/M	ECJ-GVF1A475Z
		6.3	10µF	+80%/-20%	1.25	PCC2182CT-ND	2.01	14.33	51.57	85.95	PCC2182TR-ND	3,000	74.00/M	ECJ-2FF0J106Z
	F	50	1µF	+80%/20%	1.25	PCC2404CT-ND	1.70	11.14	36.03	45.85	PCC2404TR-ND	3,000	46.00/M	ECJ-2FF1H105Z
		25	1.0µF	+80%/-20%	1.25	PCC2230CT-ND	.94	6.63	22.90	36.15	PCC2230TR-ND	3,000	32.00/M	ECJ-2FF1E105Z
			2.2µF	+80%/-20%	1.25	PCC2231CT-ND	1.02	7.30	26.28	40.88	PCC2231TR-ND	3,000	39.00/M	ECJ-2FF1E225Z
		16	4.7µF	+80%/-20%	1.25	PCC2232CT-ND	1.82	13.03	46.89	72.94	PCC2232TR-ND	3,000	69.00/M	ECJ-2FF1C475Z
		10	10µF	+80%/-20%	1.25	PCC2233CT-ND	1.94	14.26	51.60	81.95	PCC2233TR-ND	3,000	81.00/M	ECJ-2FF1A106Z
1206	NPO	200	470pF	±5%	1.15	PCC2007CT-ND•	5.66	41.60	150.45	256.65	PCC2007TR-ND	2,000	239.00/M	ECJ-3YC2D471J
			680pF	±5%	1.15	PCC2008CT-ND•	7.07	51.94	187.85	320.45	PCC2008TR-ND	2,000	298.00/M	ECJ-3YC2D681J
			1000pF	±5%	1.15	PCC2009CT-ND•	8.22	60.40	218.45	372.65	PCC2009TR-ND	2,000	347.00/M	ECJ-3YC2D102J
		100	1500pF	±5%	0.85	PCC2004CT-ND•	4.44	32.62	117.98	201.26	PCC2004TR-ND	4,000	180.00/M	ECJ-3VC2A152J
			2200pF	±5%	0.85	PCC2005CT-ND•	4.44	32.62	117.98	201.26	PCC2005TR-ND	4,000	180.00/M	ECJ-3VC2A222J
			3300pF	±5%	0.85	PCC2006CT-ND•	4.44	32.62	117.98	201.26	PCC2006TR-ND	4,000	180.00/M	ECJ-3VC2A332J
		50	.5pF	±0.25pF	0.60	PCC0R5CCT-ND	1.11	7.51	25.42	38.74	PCC0R5CTR-ND	5,000	33.00/M	ECU-V1H0R5CCM*
			3.9pF	±0.25pF	0.60	PCC3R9CCT-ND	.93	6.27	21.25	32.38	—	—	—	ECU-V1H3R9CCM*
			56pF	±5%	0.60	PCC560CCT-ND	1.35	9.13	30.91	47.10	PCC560CTR-ND	5,000	40.00/M	ECU-V1H560JCM*
			120pF	±5%	0.60	PCC121CCT-ND	1.35	9.11	30.86	47.02	—	—	—	ECU-V1H121JCH*
			2700pF	±5%	0.60	PCC2160CT-ND•	14.04	99.00	342.00	540.00	PCC2160TR-ND	5,000	468.00/M	ECJ-3VC1H272J
			3300pF	±5%	0.60	PCC2161CT-ND•	5.23	36.88	127.40	201.15	PCC2161TR-ND	5,000	174.00/M	ECJ-3VC1H332J
			3900pF	±5%	0.60	PCC2162CT-ND•	5.23	36.88	127.40	201.15	PCC2162TR-ND	5,000	174.00/M	ECJ-3VC1H392J
			4700pF	±5%	0.60	PCC2163CT-ND•	5.23	36.88	127.40	201.15	PCC2163TR-ND	5,000	174.00/M	ECJ-3VC1H472J
			5600pF	±5%	0.85	PCC2164CT-ND•	9.54	67.27	232.37	366.90	PCC2164TR-ND	4,000	318.00/M	ECJ-3VC1H562J
			6800pF	±5%	0.85	PCC2165CT-ND•	10.16	71.67	247.57	390.90	PCC2165TR-ND	4,000	339.00/M	ECJ-3VC1H682J
			8200pF	±5%	1.15	PCC2166CT-ND•	9.89	74.21	263.84	478.21	PCC2166TR-ND	3,000	439.00/M	ECJ-3FC1H822J
			10000pF	±5%	1.15	PCC2167CT-ND•	15.64	110.30	381.05	601.65	PCC2167TR-ND	3,000	521.43/M	ECJ-3FC1H103J
	X7R	630	1000pF	±10%	1.15	PCC2291CT-ND	2.43	17.35	62.46	97.16	PCC2291TR-ND	3,000	94.00/M	ECJ-3FB2J102K
			2200pF	±10%	1.15	PCC2293CT-ND	2.43	17.35	62.46	97.16	PCC2293TR-ND	3,000	94.00/M	ECJ-3FB2J222K
			4700pF	±10%	1.15	PCC2294CT-ND	2.43	17.35	62.46	97.16	PCC2294TR-ND	3,000	94.00/M	ECJ-3FB2J472K
			.01µF	±10%	1.15	PCC2292CT-ND	2.43	17.35	62.46	97.16	PCC2292TR-ND	3,000	94.00/M	ECJ-3FB2J103K
		200	15000pF	±10%	1.15	PCC2013CT-ND	6.98	51.23	185.30	316.10	PCC2013TR-ND	2,000	294.00/M	ECJ-3YB2D153K
			22000pF	±10%	1.15	PCC2014CT-ND	6.98	51.23	185.30	316.10	PCC2014TR-ND	2,000	294.00/M	ECJ-3YB2D223K
		100	22000pF	±10%	1.15	PCC2010CT-ND	4.55	32.50	117.00	195.00	PCC2010TR-ND	2,000	182.00/M	ECJ-3YB2A223K
			33000pF	±10%	1.15	PCC2011CT-ND	5.04	36.00	129.60	216.00	PCC2011TR-ND	2,000	202.00/M	ECJ-3YB2A333K
			47000pF	±10%	1.15	PCC2012CT-ND	5.04	36.00	129.60	216.00	PCC2012TR-ND	2,000	202.00/M	ECJ-3YB2A473K
			.1µF	±10%	1.60	PCC2239CT-ND	3.16	23.24	84.07	133.52	PCC2239TR-ND	2,000	132.00/M	ECJ-3YB2A104K
		50	8200pF	±10%	0.60	PCC822BCT-ND	1.44	9.72	32.93	50.18	PCC822BTR-ND	5,000	42.00/M	ECU-V1H822KBM*
			39000pF	±10%	0.60	PCC393BCT-ND	2.17	14.64	49.57	75.54	PCC393BTR-ND	5,000	64.00/M	ECU-V1H393KBW*
			.1µF	±10%	1.00	PCC104BCT-ND	3.96	28.25	101.70	169.50	PCC104BTR-ND	4,000	147.00/M	ECJ-3VB1H104K
			.22µF	±10%	1.60	PCC2299CT-ND	2.27	16.01	55.29	87.30	PCC2299TR-ND	2,000	79.00/M	ECJ-3YB1H224K
		25	.1µF	±10%	0.85	PCC1883CT-ND	1.69	11.94	41.23	69.44	PCC1883TR-ND	4,000	56.00/M	ECJ-3VB1E104K
			.12µF	±10%	0.85	PCC1884CT-ND	2.07	14.58	50.35	84.80	PCC1884TR-ND	4,000	69.00/M	ECJ-3VB1E124K
			.15µF	±10%	0.85	PCC1885CT-ND	1.69	11.94	41.23	69.44	PCC1885TR-ND	4,000	56.00/M	ECJ-3VB1E154K

‡ Reduced DC Bias Voltage Characteristics   * Not for new design   † Improved DC Bias Voltage Characteristics

(Continued)

Panasonic Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 *(Cont.)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
1206	X7R	25	.18µF	±10%	0.85	PCC1886CT-ND	2.42	17.05	58.90	99.20	PCC1886TR-ND	4,000	81.00/M	ECJ-3VB1E184K
			.22µF	±10%	0.85	PCC1887CT-ND	1.69	11.94	41.23	69.44	PCC1887TR-ND	4,000	56.00/M	ECJ-3VB1E224K
			.27µF	±10%	0.85	PCC1888CT-ND	2.42	17.05	58.90	99.20	PCC1888TR-ND	4,000	81.00/M	ECJ-3VB1E274K
			.33µF	±10%	0.85	PCC1889CT-ND	1.76	12.40	42.85	72.16	PCC1889TR-ND	4,000	59.00/M	ECJ-3VB1E334K
			.39µF	±10%	1.15	PCC1890CT-ND	3.36	24.00	86.40	144.00	PCC1890TR-ND	2,000	134.00/M	ECJ-3YB1E394K
			.47µF	±10%	1.15	PCC2412CT-ND	2.37	15.33	47.36	67.65	PCC2412TR-ND	3,000	68.00/M	ECJ-3FB1E474K
			.47µF	±10%	1.15	PCC1891CT-ND	4.17	29.75	107.10	178.50	PCC1891TR-ND	2,000	167.00/M	ECJ-3YB1E474K
			.56µF	±10%	1.60	PCC1926CT-ND	4.06	29.00	104.40	174.00	PCC1926TR-ND	2,000	162.00/M	ECJ-3YB1E564K
			.68µF	±10%	1.60	PCC1892CT-ND	1.58	11.28	40.59	67.65	PCC1892TR-ND	2,000	63.00/M	ECJ-3YB1E684K
			.82µF	±10%	1.60	PCC1927CT-ND	4.26	31.26	113.05	192.85	PCC1927TR-ND	2,000	180.00/M	ECJ-3YB1E824K
			1µF	±10%	1.60	PCC1893CT-ND	2.50	18.35	66.39	113.25	PCC1893TR-ND	2,000	105.00/M	ECJ-3YB1E105K
		16	.1µF	±10%	0.85	PCC1870CT-ND	1.68	12.03	43.29	72.15	PCC1870TR-ND	4,000	63.00/M	ECJ-3VB1C104K
			.12µF	±10%	0.85	PCC1871CT-ND	2.42	17.25	62.10	103.50	PCC1871TR-ND	4,000	90.00/M	ECJ-3VB1C124K
			.15µF	±10%	0.85	PCC1872CT-ND	1.86	13.25	47.70	79.50	PCC1872TR-ND	4,000	69.00/M	ECJ-3VB1C154K
			.18µF	±10%	0.85	PCC1873CT-ND	2.66	19.00	68.40	114.00	PCC1873TR-ND	4,000	99.00/M	ECJ-3VB1C184K
			.22µF	±10%	0.85	PCC1874CT-ND	2.03	14.50	52.20	87.00	PCC1874TR-ND	4,000	75.00/M	ECJ-3VB1C224K
			.27µF	±10%	0.85	PCC1875CT-ND	2.91	20.75	74.70	124.50	PCC1875TR-ND	4,000	108.00/M	ECJ-3VB1C274K
			.33µF	±10%	0.85	PCC1876CT-ND	1.25	8.90	32.04	53.40	PCC1876TR-ND	4,000	46.00/M	ECJ-3VB1C334K
			.39µF	±10%	0.85	PCC1877CT-ND	3.50	25.00	90.00	150.00	PCC1877TR-ND	4,000	130.00/M	ECJ-3VB1C394K
			.47µF	±10%	0.85	PCC1878CT-ND	1.34	9.60	34.56	57.60	PCC1878TR-ND	4,000	50.00/M	ECJ-3VB1C474K
			.56µF	±10%	0.85	PCC1879CT-ND	3.94	28.91	104.55	178.35	PCC1879TR-ND	4,000	160.00/M	ECJ-3VB1C564K
			.68µF	±10%	0.85	PCC1880CT-ND	1.37	10.03	36.30	61.92	PCC1880TR-ND	4,000	58.00/M	ECJ-3VB1C684K
			.82µF	±10%	1.15	PCC1881CT-ND	5.41	39.72	143.65	245.05	PCC1881TR-ND	2,000	228.00/M	ECJ-3YB1C824K
			1µF	±10%	1.15	PCC1882CT-ND	6.30	46.30	167.45	285.65	PCC1882TR-ND	2,000	266.00/M	ECJ-3YB1C105K
			1.5µF	±10%	1.60	PCC1929CT-ND	7.30	53.58	193.80	330.60	PCC1929TR-ND	2,000	308.00/M	ECJ-3YB1C155K
			2.2µF	±10%	1.60	PCC1931CT-ND	3.65	27.34	97.20	176.18	PCC1931TR-ND	2,000	162.00/M	ECJ-3YB1C225K
			10µF	±10%	1.60	PCC13491CT-ND ***NEW!***	10.49	78.68	279.76	465.10	PCC13491TR-ND ***NEW!***	2,000	455.00/M	ECJ-3YX1C106K
	X5R	25	2.2µF	±10%	1.60	PCC2296CT-ND	3.88	28.53	103.19	163.89	PCC2296TR-ND	2,000	158.00/M	ECJ-3YB1E225K
			4.7µF	±10%	1.60	PCC2297CT-ND	5.44	39.95	144.50	229.50	PCC2297TR-ND	2,000	221.00/M	ECJ-3YB1E475K
			4.7µF	±20%	1.60	PCC2241CT-ND	5.10	38.25	136.00	226.10	PCC2241TR-ND	2,000	221.00/M	ECJ-3YB1E475M
			4.7µF	±20%	1.60	PCC2226CT-ND	5.10	38.25	136.00	226.10	PCC2226TR-ND	2,000	221.00/M	ECJ-3YB1C475M
			10µF	±20%	1.60	PCC2326CT-ND	5.43	39.86	144.16	254.40	PCC2326TR-ND	2,000	229.00/M	ECJ-3YB1E106M
			10µF	±10%	1.60	PCC2414CT-ND	5.45	36.07	136.26	216.41	PCC2414TR-ND	2,000	216.00/M	ECJ-3YB1E106K
		16	1.5µF	±10%	1.60	PCC1867CT-ND	2.86	21.47	76.32	138.33	PCC1867TR-ND	2,000	127.00/M	ECJ-3YB1A155K
			4.7µF	±10%	1.60	PCC2250CT-ND	5.44	39.95	144.50	229.50	PCC2250TR-ND	2,000	230.00/M	ECJ-3YB1C475K
			10µF	±10%	1.60	PCC2413CT-ND	9.62	72.14	256.48	426.40	PCC2413TR-ND	2,000	426.00/M	ECJ-3YB1C106K
			10µF	±20%	0.85	PCC2417CT-ND	4.48	30.06	98.37	153.02	PCC2417TR-ND	4,000	145.00/M	ECJ-HVB1C106M
			10µF	±20%	1.60	PCC2227CT-ND	10.33	77.47	275.44	457.92	PCC2227TR-ND	2,000	448.00/M	ECJ-3YB1C106M
			22µF	±20%	1.60	PCC2332CT-ND	13.94	105.20	394.50	—	PCC2332TR-ND	2,000	673.00/M	ECJ-3YB1C226M
		10	2.2µF	±10%	0.85	PCC2312CT-ND	4.09	30.03	108.63	172.53	PCC2312TR-ND	4,000	166.00/M	ECJ-HVB1A225K
			2.2µF	±10%	1.60	PCC1868CT-ND	3.59	26.93	95.76	173.57	PCC1868TR-ND	2,000	159.00/M	ECJ-3YB1A225K
			2.7µF	±10%	1.60	PCC1934CT-ND	8.52	63.90	227.20	411.80	PCC1934TR-ND	2,000	378.00/M	ECJ-3YB1A275K*
			3.3µF	±10%	1.60	PCC1869CT-ND	3.59	26.93	95.76	173.57	PCC1869TR-ND	2,000	159.00/M	ECJ-3YB1A335K
			4.7µF	±10%	1.60	PCC2295CT-ND	4.72	34.66	125.38	199.13	PCC2295TR-ND	2,000	199.00/M	ECJ-3YB1A475K
			4.7µF	±20%	1.60	PCC2177CT-ND	4.43	33.19	118.00	213.88	PCC2177TR-ND	2,000	196.00/M	ECJ-3YB1A475M
			10µF	±20%	1.60	PCC2178CT-ND	5.38	40.37	143.52	260.13	PCC2178TR-ND	2,000	239.00/M	ECJ-3YB1A106M
			22µF	±20%	1.60	PCC2331CT-ND	11.85	88.88	316.00	—	PCC2331TR-ND	2,000	514.00/M	ECJ-3YB1A226M
		6.3	4.7µF	±10%	1.60	PCC1936CT-ND	4.16	31.23	111.04	201.26	PCC1936TR-ND	2,000	185.00/M	ECJ-3YB0J475K
			4.7µF	±10%	0.85	PCC2311CT-ND	4.73	34.73	125.63	199.53	PCC2311TR-ND	4,000	192.00/M	ECJ-HVB0J475K
			4.7µF	±20%	0.85	PCC2316CT-ND	4.73	34.73	125.63	199.53	PCC2316TR-ND	4,000	192.00/M	ECJ-HVB0J475M
			6.8µF	±10%	1.60	PCC1938CT-ND	10.20	76.50	272.00	493.00	PCC1938TR-ND	2,000	452.00/M	ECJ-3YB0J685K
			8.2µF	±10%	1.60	PCC1939CT-ND	11.58	86.85	308.80	559.70	PCC1939TR-ND	2,000	513.00/M	ECJ-3YB0J825K*
			10µF	±10%	1.60	PCC1940CT-ND	7.50	56.25	200.00	362.50	PCC1940TR-ND	2,000	333.00/M	ECJ-3YB0J106K
			10µF	±20%	0.85	PCC2317CT-ND	8.00	59.96	213.20	354.45	PCC2317TR-ND	4,000	341.00/M	ECJ-HVB0J106M
			10µF	±20%	0.85	PCC2328CT-ND‡	5.82	42.77	154.70	245.70	PCC2328TR-ND‡	4,000	237.00/M	ECJ-DV50J106M
			22µF	±20%	0.85	PCC2329CT-ND‡	10.17	76.28	271.20	450.87	PCC2329TR-ND‡	4,000	434.00/M	ECJ-DV50J226M
			22µF	±20%	1.60	PCC2242CT-ND	12.87	97.16	364.35	631.54	PCC2242TR-ND	2,000	622.00/M	ECJ-3YB0J226M
			22µF	±20%	0.85	PCC2416CT-ND	10.20	76.50	272.00	452.20	PCC2416TR-ND	4,000	435.00/M	ECJ-HVB0J226M
	Y5V	25	.47µF	+80%/-20%	0.85	PCC1901CT-ND	1.27	8.94	30.88	52.00	PCC1901TR-ND	4,000	42.00/M	ECJ-3VF1E474Z
			.68µF	+80%/-20%	1.15	PCC1902CT-ND	2.87	20.50	73.80	123.00	PCC1902TR-ND	2,000	115.00/M	ECJ-3YF1E684Z
			1µF	+80%/-20%	1.15	PCC1903CT-ND	3.29	23.50	84.60	141.00	PCC1903TR-ND	2,000	132.00/M	ECJ-3YF1E105Z
			1.5µF	+80%/-20%	1.15	PCC1904CT-ND	4.19	30.79	111.35	189.95	PCC1904TR-ND	2,000	177.00/M	ECJ-3YF1E155Z
			2.2µF	+80%/-20%	1.15	PCC1905CT-ND	4.19	30.79	111.35	189.95	PCC1905TR-ND	2,000	177.00/M	ECJ-3YF1E225Z
		16	.68µF	+80%/-20%	0.85	PCC1895CT-ND	3.71	26.50	95.40	159.00	PCC1895TR-ND	4,000	138.00/M	ECJ-3VF1C684Z
			1µF	+80%/-20%	0.85	PCC1896CT-ND	1.22	8.73	31.41	52.35	PCC1896TR-ND	4,000	45.00/M	ECJ-3VF1C105Z
			1.5µF	+80%/-20%	0.85	PCC1897CT-ND	4.17	29.75	107.10	178.50	—	—	—	ECJ-3VF1C155Z*
			2.2µF	+80%/-20%	0.85	PCC1898CT-ND	1.66	11.85	42.66	71.10	PCC1898TR-ND	4,000	62.00/M	ECJ-3VF1C225Z
			4.7µF	+80%/-20%	1.15	PCC1900CT-ND	6.75	49.59	179.35	305.95	PCC1900TR-ND	2,000	285.00/M	ECJ-3YF1C475Z
			10µF	+80%/-20%	1.25	PCC2420CT-ND	3.35	22.44	73.44	114.24	PCC2420TR-ND	3,000	114.00/M	ECJ-MFF1C106Z
		10	10µF	+80%/-20%	1.60	PCC1894CT-ND	2.89	21.67	77.04	139.64	PCC1894TR-ND	2,000	128.00/M	ECJ-3YF1A106Z
			10µF	+80%/-20%	1.25	PCC2418CT-ND	3.28	22.03	72.09	112.14	PCC2418TR-ND	3,000	112.00/M	ECJ-MFF1A106Z
			22µF	+80%/-20%	1.25	PCC2419CT-ND	4.71	31.14	117.64	186.84	PCC2419TR-ND	3,000	184.00/M	ECJ-MFF1A226Z
	F	50	1.0µF	+80%/-20%	1.15	PCC2234CT-ND	2.12	15.18	54.63	84.98	PCC2234TR-ND	3,000	81.00/M	ECJ-3FF1H105Z
		25	4.7µF	+80%/-20%	1.15	PCC2235CT-ND	1.93	14.15	51.17	81.27	PCC2235TR-ND	3,000	80.00/M	ECJ-3FF1E475Z
			10µF	+80%/-20%	1.60	PCC2415CT-ND	3.88	26.04	85.23	132.58	PCC2415TR-ND	2,000	133.00/M	ECJ-3YF1E106Z
		16	10µF	+80%/-20%	1.60	PCC2300CT-ND	3.46	24.73	89.01	138.46	PCC2300TR-ND	2,000	134.00/M	ECJ-3YF1C106Z
		10	22µF	+80%/-20%	1.60	PCC2236CT-ND	5.21	39.04	138.80	230.76	PCC2236TR-ND	2,000	226.00/M	ECJ-3YF1A226Z
1210	X7R	100	0.22µF	±10%	2.00	PCC2304CT-ND	8.20	61.49	218.64	363.49	PCC2304TR-ND	2,000	363.00/M	ECJ-4YB2A224K*
			0.47µF	±10%	2.00	PCC2240CT-ND	6.91	50.76	183.60	291.60	PCC2240TR-ND	2,000	287.00/M	ECJ-4YB2A474K*
			0.68µF	±10%	2.50	PCC2305CT-ND	7.20	54.00	192.00	—	PCC2305TR-ND	1,000	319.00	ECJ-4YB2A684K*
			0.68µF	±20%	2.50	PCC2247CT-ND	7.20	54.00	192.00	—	PCC2247TR-ND	1,000	319.00	ECJ-4YB2A684M*
	X5R	50	1µF	±10%	2.00	PCC2303CT-ND	5.84	42.91	155.21	246.51	PCC2303TR-ND	2,000	237.00/M	ECJ-4YB1H105K*
		25	2.2µF	±10%	2.00	PCC2302CT-ND	6.01	44.16	159.72	253.67	PCC2302TR-ND	2,000	244.00/M	ECJ-4YB1E225K*
			4.7µF	±10%	2.00	PCC2251CT-ND	6.66	48.93	176.97	281.07	PCC2251TR-ND	2,000	281.00/M	ECJ-4YB1E475K*
			10µF	±20%	2.50	PCC2243CT-ND	12.60	94.50	336.00	—	PCC2243TR-ND	1,000	559.00	ECJ-4YB1E106M*
			22µF	±20%	2.50	PCC2333CT-ND	26.16	197.40	740.25	—	PCC2333TR-ND	1,000	1283.00	ECJ-4YB1E226M*
		16	4.7µF	±10%	2.00	PCC2168CT-ND	5.76	43.18	153.52	278.26	PCC2168TR-ND	2,000	255.00/M	ECJ-4YB1C475K*
			10µF	±10%	2.00	PCC2169CT-ND	10.77	80.78	287.20	520.55	PCC2169TR-ND	2,000	477.00/M	ECJ-4YB1C106K*
			22µF	±20%	2.00	PCC2330CT-ND	17.45	131.68	493.80	—	PCC2330TR-ND	1,000	856.00	ECJ-4YB1C226M*
			47µF	±20%	2.50	PCC2335CT-ND	34.19	258.00	967.50	—	PCC2335TR-ND	1,000	1677.00	ECJ-4YB1C476M*
		10	10µF	±10%	2.00	PCC2170CT-ND	8.97	67.28	239.20	433.55	PCC2170TR-ND	2,000	398.00/M	ECJ-4YB1A106K*
			10µF	±20%	1.40	PCC2238CT-ND	7.29	54.65	194.32	323.06	PCC2238TR-ND	2,000	316.00/M	ECJ-8YB1A106M*
			22µF	±20%	2.50	PCC2228CT-ND	16.09	121.46	455.48	—	PCC2228TR-ND	1,000	789.00	ECJ-4YB1A226M*
			47µF	±20%	2.50	PCC2334CT-ND	33.13	250.00	937.50	—	PCC2334TR-ND	1,000	1625.00	ECJ-4YB1A476M*
	X5R	6.3	22µF	±20%	2.50	PCC2179CT-ND	17.18	128.84	458.08	—	PCC2179TR-ND	1,000	762.00	ECJ-4YB0J226M*
			47µF	±10%	2.50	PCC2301CT-ND	32.18	242.90	910.88	—	PCC2301TR-ND	1,000	1579.00	ECJ-4YB0J476M*
			100µF	±20%	2.50	PCC2267CT-ND	57.79	436.14	1635.53	—	PCC2267TR-ND	1,000	2835.00	ECJ-4YB0J107M*
	Y5V	25	10µF	+80%/-20%	1.60	PCC2171CT-ND	6.00	45.02	160.08	290.15	PCC2171TR-ND	2,000	266.00/M	ECJ-4YF1E106Z*
		10	22µF	+80%/-20%	2.00	PCC2172CT-ND	7.13	53.48	190.16	344.67	PCC2172TR-ND	2,000	316.00/M	ECJ-4YF1A226Z*

‡ Reduced DC Bias Voltage Characteristics * Not for new design † Improved DC Bias Voltage Characteristics

(Continued)

Panasonic Multilayer Ceramic Chip Capacitors 0201, 0402, 0508, 0603, 0612, 0805, 1206, 1210 and 1812 *(Cont.)*

Size Code	Type	WV DC	Cap.	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
							10	100	500	1,000		Size	Pricing	
1210	F	6.3	47µF	+80%/-20%	2.00	PCC2237CT-ND	16.09	121.46	455.48	789.49	PCC2237TR-ND	2,000	777.00/M	ECJ-4YF0J476Z*
		16	10µF	+80%/-20%	2.00	PCC2306CT-ND	6.18	45.38	164.14	—	PCC2306TR-ND	2,000	261.00/M	ECJ-4YF1C106Z*
			22µF	+80%/-20%	2.00	PCC2307CT-ND	9.86	73.94	262.88	—	PCC2307TR-ND	2,000	437.00/M	ECJ-4YF1C226Z*
		50	4.7µF	+80%/-20%	2.00	PCC2309CT-ND	6.97	52.27	185.84	—	PCC2309TR-ND	2,000	309.00/M	ECJ-4YF1H475Z*
			10µF	+80%/-20%	2.00	PCC2308CT-ND	6.97	52.27	185.84	—	PCC2308TR-ND	2,000	309.00/M	ECJ-4YF1H106Z*
1812	X7R	100	1.0µF	±20%	2.50	PCC2248CT-ND	13.62	102.79	—	—	PCC2248TR-ND	500	385.50	ECJ-5YB2A105M
	X5R	25	10µF	±20%	2.50	PCC2180CT-ND	20.82	156.15	—	—	PCC2180TR-ND	500	461.50	ECJ-5YB1E106M
		16	22µF	±20%	3.20	PCC2244CT-ND	31.80	239.98	—	—	PCC2244TR-ND	500	900.00	ECJ-5YB1C226M
		6.3	47µF	±20%	3.20	PCC2245CT-ND	27.24	205.57	—	—	PCC2245TR-ND	500	771.00	ECJ-5YB0J476M
	Y5V	35	10µF	+80%/-20%	2.50	PCC2183CT-ND	22.26	166.93	—	—	PCC2183TR-ND	500	493.50	ECJ-5YF1V106Z
		16	22µF	+80%/-20%	2.50	PCC2184CT-ND	17.18	128.83	—	—	PCC2184TR-ND	500	381.00	ECJ-5YF1C226Z
	F	6.3	100µF	+80%/-20%	3.20	PCC2246CT-ND	36.78	277.60	—	—	PCC2246TR-ND	500	1041.00	ECJ-5YF0J107Z

‡ Reduced DC Bias Voltage Characteristics * Not for new design † Improved DC Bias Voltage Characteristics

Digi-Key® Notebook Style Kit Boxes

Notebook style kit box with velcro closure can be stored as a normal kit box, or vertically as a book. Each compartment is identified with an easy-to-read kit index.

- **PCC7-KIT-ND** ***0805/NP0 Series Kit*** 10 each of values denoted (300 total pieces) **$29.95**
- **PCC9-KIT-ND** ***0603/NP0 Series Kit*** 10 each of values denoted (300 total pieces) **$29.95**
- **PCC13-KIT-ND** ***0402/NP0 Series Kit*** 10 each of values denoted (280 total pieces) **$49.95**
- **PCC14-KIT-ND** ***0402/X7R Series Kit*** 10 each of values denoted (300 total pieces).................. **$45.95**
- **PCC15-KIT-ND** ***0603/X7R-X5R Series Kit*** 10 each of values denoted (300 total pieces) **$29.95**
- **PCC16-KIT-ND** ***0805/X7R Series Kit*** 10 each of values denoted (300 total pieces).................. **$29.95**
- **PCC17-KIT-ND** ***1206/NP0 Series Kit*** 10 each of values denoted (140 total pieces) **$89.95**

Panasonic®

High-Q (Microwave) Multilayer Chip Capacitors 0201 and 0402 High-Accuracy/High-Frequency

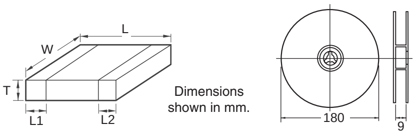

Dimensions shown in mm.

Features:
- Lead Free
- Operating Temperature Range: -55°C ~ 125°C
- Low Cap. with Tight Tolerance
- High Q value / Low ESR at High Frequency.
- Ultra-Stable C0G Performance (0±30 ppm/°C)
- 0201 and 0402 Miniature Sizes

Applications (At Microwave Frequency): • Impedance Matching Circuit • Resonant Circuit • Coupling Circuit

Application Examples: • RF modules, VCO, BPF, DUP, PA, etc. • Cellular Phone, Bluetooth, Wireless LAN, etc.

Size Code (EIA)	L	W	T	L1 / L2
0201	0.60±0.03	0.30±0.03	0.30	0.15±0.05
0402	1.00±0.05	0.50±0.05	0.50	0.20±0.10

Size Code	Type	WV DC	Cap.	Tolerance	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
						10	100	500	1,000		Size	Pricing	
0201	C0G	25	.10pF	±0.05pF	PCC2337CT-ND*	.21	.14	.11	.09	PCC2337TR-ND	15,000	77.00/M	ECD-GZER108
			.20pF	±0.05pF	PCC2338CT-ND*	.21	.14	.11	.09	PCC2338TR-ND	15,000	77.00/M	ECD-GZER208
			.30pF	±0.05pF	PCC2339CT-ND*	.21	.14	.11	.09	PCC2339TR-ND	15,000	77.00/M	ECD-GZER308
			.40pF	±0.05pF	PCC2340CT-ND*	.21	.14	.11	.09	PCC2340TR-ND	15,000	77.00/M	ECD-GZER408
			.50pF	±0.05pF	PCC2341CT-ND*	.21	.14	.11	.09	PCC2341TR-ND	15,000	77.00/M	ECD-GZER508
			.60pF	±0.075pF	PCC2342CT-ND*	.21	.14	.11	.09	PCC2342TR-ND	15,000	77.00/M	ECD-GZER609
			.70pF	±0.075pF	PCC2343CT-ND*	.21	.14	.11	.09	PCC2343TR-ND	15,000	77.00/M	ECD-GZER709
			.80pF	±0.075pF	PCC2344CT-ND*	.21	.14	.11	.09	PCC2344TR-ND	15,000	77.00/M	ECD-GZER809
			.90pF	±0.075pF	PCC2345CT-ND*	.21	.14	.11	.09	PCC2345TR-ND	15,000	77.00/M	ECD-GZER909
			1.0pF	±0.10pF	PCC2346CT-ND*	.21	.14	.11	.09	PCC2346TR-ND	15,000	77.00/M	ECD-GZE1R0B
			1.1pF	±0.10pF	PCC2347CT-ND*	.21	.14	.11	.09	PCC2347TR-ND	15,000	77.00/M	ECD-GZE1R1B
			1.2pF	±0.10pF	PCC2348CT-ND*	.21	.14	.11	.09	PCC2348TR-ND	15,000	77.00/M	ECD-GZE1R2B
			1.3pF	±0.10pF	PCC2349CT-ND*	.21	.14	.11	.09	PCC2349TR-ND	15,000	77.00/M	ECD-GZE1R3B
			1.5pF	±0.10pF	PCC2350CT-ND*	.21	.14	.11	.09	PCC2350TR-ND	15,000	77.00/M	ECD-GZE1R5B
			1.6pF	±0.10pF	PCC2351CT-ND*	.21	.14	.11	.09	PCC2351TR-ND	15,000	77.00/M	ECD-GZE1R6B
			1.8pF	±0.10pF	PCC2352CT-ND*	.21	.14	.11	.09	PCC2352TR-ND	15,000	77.00/M	ECD-GZE1R8B
			2.0pF	±0.10pF	PCC2353CT-ND*	.21	.14	.11	.09	PCC2353TR-ND	15,000	77.00/M	ECD-GZE2R0B
			2.2pF	±0.10pF	PCC2356CT-ND*	.21	.14	.11	.09	PCC2356TR-ND	15,000	77.00/M	ECD-GZE2R2B
			2.4pF	±0.10pF	PCC2357CT-ND*	.21	.14	.11	.09	PCC2357TR-ND	15,000	77.00/M	ECD-GZE2R4B
			2.7pF	±0.10pF	PCC2358CT-ND*	.21	.14	.11	.09	PCC2358TR-ND	15,000	77.00/M	ECD-GZE2R7B
			3.0pF	±0.10pF	PCC2359CT-ND*	.21	.14	.11	.09	PCC2359TR-ND	15,000	77.00/M	ECD-GZE3R0B
			3.3pF	±0.25pF	PCC2360CT-ND*	.34	.22	.14	.10	PCC2360TR-ND	15,000	84.00/M	ECD-GZE3R3C
			3.9pF	±0.25pF	PCC2361CT-ND	.34	.22	.14	.10	PCC2361TR-ND	15,000	84.00/M	ECD-GZE3R9C
			4.7pF	±0.25pF	PCC2362CT-ND	.34	.22	.14	.10	PCC2362TR-ND	15,000	84.00/M	ECD-GZE4R7C
0402	C0G	25	.10pF	±0.05pF	PCC2190CT-ND†	.26	.17	.13	.11	PCC2190TR-ND	10,000	94.00/M	ECD-G0ER108
			.20pF	±0.05pF	PCC2192CT-ND†	.26	.17	.13	.11	PCC2192TR-ND	10,000	94.00/M	ECD-G0ER208
			.30pF	±0.05pF	PCC2194CT-ND†	.26	.17	.13	.11	PCC2194TR-ND	10,000	94.00/M	ECD-G0ER308
			.35pF	±0.05pF	PCC2195CT-ND	.26	.17	.13	.11	—	—	—	ECD-G0ER358
			.40pF	±0.05pF	PCC2196CT-ND†	.26	.17	.13	.11	PCC2196TR-ND	10,000	94.00/M	ECD-G0ER408
			.50pF	±0.05pF	PCC2198CT-ND†	.26	.17	.13	.11	PCC2198TR-ND	10,000	94.00/M	ECD-G0ER508
			.55pF	±0.075pF	PCC2199CT-ND	.26	.17	.13	.11	PCC2199TR-ND	10,000	94.00/M	ECD-G0ER559
			.60pF	±0.075pF	PCC2200CT-ND†	.26	.17	.13	.11	PCC2200TR-ND	10,000	94.00/M	ECD-G0ER609
			.70pF	±0.075pF	PCC2202CT-ND†	.26	.17	.13	.11	PCC2202TR-ND	10,000	94.00/M	ECD-G0ER709
			.80pF	±0.075pF	PCC2204CT-ND†	.26	.17	.13	.11	PCC2204TR-ND	10,000	94.00/M	ECD-G0ER809
			.90pF	±0.075pF	PCC2206CT-ND†	.26	.17	.13	.11	PCC2206TR-ND	10,000	94.00/M	ECD-G0ER909
			1.0pF	±0.10pF	PCC2252CT-ND†	.26	.17	.13	.11	PCC2252TR-ND	10,000	94.00/M	ECD-G0E1R0B
			1.1pF	±0.10pF	PCC2209CT-ND†	.26	.17	.13	.11	PCC2209TR-ND	10,000	94.00/M	ECD-G0E1R1B
			1.2pF	±0.10pF	PCC2210CT-ND†	.26	.17	.13	.11	PCC2210TR-ND	10,000	94.00/M	ECD-G0E1R2B
			1.3pF	±0.10pF	PCC2211CT-ND†	.26	.17	.13	.11	PCC2211TR-ND	10,000	94.00/M	ECD-G0E1R3B
			1.5pF	±0.10pF	PCC2213CT-ND†	.26	.17	.13	.11	PCC2213TR-ND	10,000	94.00/M	ECD-G0E1R5B
			1.6pF	±0.10pF	PCC2214CT-ND†	.26	.17	.13	.11	PCC2214TR-ND	10,000	94.00/M	ECD-G0E1R6B
			1.8pF	±0.10pF	PCC2216CT-ND†	.26	.17	.13	.11	PCC2216TR-ND	10,000	94.00/M	ECD-G0E1R8B
			2.0pF	±0.10pF	PCC2218CT-ND†	.26	.17	.13	.11	PCC2218TR-ND	10,000	94.00/M	ECD-G0E2R0B
			2.2pF	±0.10pF	PCC2253CT-ND†	.26	.17	.13	.11	PCC2253TR-ND	10,000	94.00/M	ECD-G0E2R2B
			2.4pF	±0.10pF	PCC2254CT-ND†	.26	.17	.13	.11	PCC2254TR-ND	10,000	94.00/M	ECD-G0E2R4B
			2.7pF	±0.10pF	PCC2255CT-ND†	.26	.17	.13	.11	PCC2255TR-ND	10,000	94.00/M	ECD-G0E2R7B
			3.0pF	±0.10pF	PCC2256CT-ND†	.26	.17	.13	.11	PCC2256TR-ND	10,000	94.00/M	ECD-G0E3R0B
			3.3pF	±0.25pF	PCC2258CT-ND†	.26	.17	.13	.11	PCC2258TR-ND	10,000	94.00/M	ECD-G0E3R3C
			3.9pF	±0.25pF	PCC2259CT-ND†	.26	.17	.13	.11	PCC2259TR-ND	10,000	94.00/M	ECD-G0E3R9C
			4.7pF	±0.25pF	PCC2260CT-ND†	.26	.17	.13	.11	PCC2260TR-ND	10,000	94.00/M	ECD-G0E4R7C
			5.6pF	±0.25pF	PCC2261CT-ND†	.26	.17	.13	.11	PCC2261TR-ND	10,000	94.00/M	ECD-G0E5R6C
			6.8pF	±0.25pF	PCC2262CT-ND†	.26	.17	.13	.11	PCC2262TR-ND	10,000	94.00/M	ECD-G0E6R8C
			8.2pF	±0.25pF	PCC2263CT-ND†	.26	.17	.13	.11	PCC2263TR-ND	10,000	94.00/M	ECD-G0E8R2C
			10.0pF	±0.25pF	PCC2264CT-ND†	.26	.17	.13	.11	PCC2264TR-ND	10,000	94.00/M	ECD-G0E100C
			12pF	±5%	PCC2265CT-ND†	.26	.17	.13	.11	PCC2265TR-ND	10,000	94.00/M	ECD-G0E120J
			15pF	±5%	PCC2266CT-ND†	.26	.17	.13	.11	PCC2266TR-ND	10,000	94.00/M	ECD-G0E150J

* **PCC19-KIT-ND** ***Digi-Key® 0201/High-Q Series Kit*** 20 each of 21 values denoted (420 total pieces) **$59.00**

† **PCC20-KIT-ND** ***Digi-Key® 0402/High-Q Series Kit*** 20 each of 30 values denoted (600 total pieces).. **$59.00**

Multilayer Ceramic Chip Capacitors

C0G (NP0) Dielectric: • EIA Class I ceramic materials • C0G (NP0) ceramics offer one of the most stable capacitor dielectrics available • Operating Temperature Range: -55°C ~ 125°C • Capacitance change with temperature is 0±30ppm/°C which is less than ±0.3% Δ C from -55°C ~ 125°C

X7R Dielectric: • X7R formulations are called “temperature stable” ceramics and fall into EIA Class II materials • Its temperature variation of capacitance is within ±15% from -55°C ~ 125°C • Operating Temperature Range: -55°C ~ 125°C

X5R Dielectric: • General purpose dielectric for ceramic capacitors • EIA Class II dielectric • Temperature variation of capacitance is within ±15% from -55°C ~ 85°C • Operating Temperature Range: -55°C ~ 85°C

Y5V Dielectric: • Y5V formulations are for general purpose use in a limited temperature range • They have a wide temperature characteristic of +22%-82% capacitance change over the operating temperature range of -30°C ~ 85°C

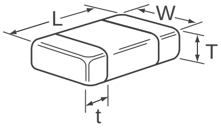

Size Code	L	W	t
0201	0.60±0.03	0.30±0.03	0.15±0.05
0402	1.00±0.10	0.50±0.10	0.25±0.15
0603	1.60±0.15	0.81±0.15	0.35±0.15
0805	2.01±0.20	1.25±0.20	0.50±0.25
1206	3.20±0.20	1.60±0.20	0.50±0.25
1210	3.20±0.20	2.50±0.20	0.50±0.25
1808	4.57±0.25	2.03±0.25	0.64±0.39
1812	4.50±0.30	3.20±0.20	0.61±0.36
1825	4.50±0.30	6.40±0.30	0.64±0.39
2220	5.70±0.40	5.00±0.04	0.64±0.39
2225	5.72±0.25	6.35±0.25	0.64±0.39

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
0201	C0G (NP0)	25V	.5pF	±.25pF	0.33	478-1000-1-ND	2.75	16.25	46.88	478-1000-2-ND	15,000	45.00/M	02013A0R5CAT2A
			1.0pF	±.25pF	0.33	478-1001-1-ND	2.75	16.25	46.88	478-1001-2-ND	15,000	45.00/M	02013A1R0CAT2A
			1.2pF	±.25pF	0.33	478-1002-1-ND	4.95	29.25	84.38	478-1002-2-ND	15,000	81.00/M	02013A1R2CAT2A
			1.5pF	±.25pF	0.33	478-1003-1-ND	2.75	16.25	46.88	478-1003-2-ND	15,000	45.00/M	02013A1R5CAT2A
			1.8pF	±.25pF	0.33	478-1004-1-ND	4.95	29.25	84.38	478-1004-2-ND	15,000	81.00/M	02013A1R8CAT2A
			2.2pF	±.25pF	0.33	478-1005-1-ND	4.95	29.25	84.38	478-1005-2-ND	15,000	81.00/M	02013A2R2CAT2A
			2.7pF	±.25pF	0.33	478-1006-1-ND	4.95	29.25	84.38	478-1006-2-ND	15,000	81.00/M	02013A2R7CAT2A
			3.3pF	±.25pF	0.33	478-1007-1-ND	4.95	29.25	84.38	478-1007-2-ND	15,000	81.00/M	02013A3R3CAT2A
			3.9pF	±.25pF	0.33	478-1008-1-ND	4.95	29.25	84.38	478-1008-2-ND	15,000	81.00/M	02013A3R9CAT2A
			4.7pF	±.25pF	0.33	478-1009-1-ND	4.95	29.25	84.38	478-1009-2-ND	15,000	81.00/M	02013A4R7CAT2A
			5.6pF	±.25pF	0.33	478-1010-1-ND	4.95	29.25	84.38	478-1010-2-ND	15,000	81.00/M	02013A5R6CAT2A
			6.8pF	±.25pF	0.33	478-1011-1-ND	4.95	29.25	84.38	478-1011-2-ND	15,000	81.00/M	02013A6R8CAT2A
			8.2pF	±.25pF	0.33	478-1012-1-ND	4.95	29.25	84.38	478-1012-2-ND	15,000	81.00/M	02013A8R2CAT2A
			9.0pF	±.25pF	0.33	478-1013-1-ND	2.75	16.25	46.88	478-1013-2-ND	15,000	45.00/M	02013A9R0CAT2A
			10pF	±5%	0.33	478-1014-1-ND	2.75	16.25	46.88	478-1014-2-ND	15,000	45.00/M	02013A100JAT2A
			12pF	±5%	0.33	478-1015-1-ND	2.75	16.25	46.88	478-1015-2-ND	15,000	45.00/M	02013A120JAT2A
			15pF	±5%	0.33	478-1016-1-ND	2.75	16.25	46.88	478-1016-2-ND	15,000	45.00/M	02013A150JAT2A
			18pF	±5%	0.33	478-1017-1-ND	2.75	16.25	46.88	478-1017-2-ND	15,000	45.00/M	02013A180JAT2A
			22pF	±5%	0.33	478-1018-1-ND	2.75	16.25	46.88	478-1018-2-ND	15,000	45.00/M	02013A220JAT2A
			27pF	±5%	0.33	478-1019-1-ND	2.75	16.25	46.88	478-1019-2-ND	15,000	45.00/M	02013A270JAT2A
			33pF	±5%	0.33	478-1020-1-ND	2.75	16.25	46.88	478-1020-2-ND	15,000	45.00/M	02013A330JAT2A
		16V	39pF	±5%	0.33	478-1021-1-ND	2.75	16.25	46.88	478-1021-2-ND	15,000	45.00/M	0201YA390JAT2A
			47pF	±5%	0.33	478-1022-1-ND	2.75	16.25	46.88	478-1022-2-ND	15,000	45.00/M	0201YA470JAT2A
			56pF	±5%	0.33	478-1023-1-ND	2.75	16.25	46.88	478-1023-2-ND	15,000	45.00/M	0201YA560JAT2A
			68pF	±5%	0.33	478-1024-1-ND	2.75	16.25	46.88	478-1024-2-ND	15,000	45.00/M	0201YA680JAT2A
		10V	82pF	±5%	0.33	478-1025-1-ND	2.75	16.25	46.88	478-1025-2-ND	15,000	45.00/M	0201ZA820JAT2A
			100pF	±5%	0.33	478-1026-1-ND	5.50	32.50	93.75	478-1026-2-ND	15,000	90.00/M	0201ZA101JAT2A
	X7R	16V	100pF	±10%	0.33	478-1027-1-ND	4.95	29.25	84.38	478-1027-2-ND	15,000	81.00/M	0201YC101KAT2A
			120pF	±10%	0.33	478-1028-1-ND	4.95	29.25	84.38	478-1028-2-ND	15,000	81.00/M	0201YC121KAT2A
			150pF	±10%	0.33	478-1029-1-ND	2.75	16.25	46.88	478-1029-2-ND	15,000	45.00/M	0201YC151KAT2A
			180pF	±10%	0.33	478-1030-1-ND	4.95	29.25	84.38	478-1030-2-ND	15,000	81.00/M	0201YC181KAT2A
			220pF	±10%	0.33	478-1031-1-ND	2.75	16.25	46.88	478-1031-2-ND	15,000	45.00/M	0201YC221KAT2A
			270pF	±10%	0.33	478-1032-1-ND	4.95	29.25	84.38	478-1032-2-ND	15,000	81.00/M	0201YC271KAT2A
			330pF	±10%	0.33	478-1033-1-ND	2.75	16.25	46.88	478-1033-2-ND	15,000	45.00/M	0201YC331KAT2A
			390pF	±10%	0.33	478-1034-1-ND	4.95	29.25	84.38	478-1034-2-ND	15,000	81.00/M	0201YC391KAT2A
			470pF	±10%	0.33	478-1035-1-ND	2.75	16.25	46.88	478-1035-2-ND	15,000	45.00/M	0201YC471KAT2A
			560pF	±10%	0.33	478-1036-1-ND	5.28	31.20	90.00	478-1036-2-ND	15,000	86.00/M	0201YC561KAT2A
			680pF	±10%	0.33	478-1037-1-ND	2.75	16.25	46.88	478-1037-2-ND	15,000	45.00/M	0201YC681KAT2A
			820pF	±10%	0.33	478-1038-1-ND	5.28	31.20	90.00	478-1038-2-ND	15,000	86.00/M	0201YC821KAT2A
			1000pF	±10%	0.33	478-1039-1-ND	2.75	16.25	46.88	478-1039-2-ND	15,000	45.00/M	0201YC102KAT2A
	X5R	10V	1200pF	±10%	0.33	478-1040-1-ND	6.05	35.75	103.13	478-1040-2-ND	15,000	99.00/M	0201ZD122KAT2A
			1500pF	±10%	0.33	478-1041-1-ND	6.05	35.75	103.13	478-1041-2-ND	15,000	99.00/M	0201ZD152KAT2A
			1800pF	±10%	0.33	478-1042-1-ND	6.05	35.75	103.13	478-1042-2-ND	15,000	99.00/M	0201ZD182KAT2A
			2200pF	±10%	0.33	478-1043-1-ND	6.60	39.00	112.50	478-1043-2-ND	15,000	108.00/M	0201ZD222KAT2A
			2700pF	±10%	0.33	478-1044-1-ND	6.60	39.00	112.50	478-1044-2-ND	15,000	108.00/M	0201ZD272KAT2A
			3300pF	±10%	0.33	478-1045-1-ND	2.75	16.25	46.88	478-1045-2-ND	15,000	45.00/M	0201ZD332KAT2A
			3900pF	±10%	0.33	478-1046-1-ND	6.60	39.00	112.50	478-1046-2-ND	15,000	108.00/M	0201ZD392KAT2A
			4700pF	±10%	0.33	478-1047-1-ND	2.75	16.25	46.88	478-1047-2-ND	15,000	45.00/M	0201ZD472KAT2A
			5600pF	±10%	0.33	478-1048-1-ND	7.15	42.25	121.88	478-1048-2-ND	15,000	117.00/M	0201ZD562KAT2A
			6800pF	±10%	0.33	478-1049-1-ND	2.75	16.25	46.88	478-1049-2-ND	15,000	45.00/M	0201ZD682KAT2A
			8200pF	±10%	0.33	478-1050-1-ND	7.70	45.50	131.25	478-1050-2-ND	15,000	126.00/M	0201ZD822KAT2A
			.01µF	±10%	0.33	478-1051-1-ND	2.75	16.25	46.88	478-1051-2-ND	15,000	45.00/M	0201ZD103KAT2A
	Y5V	10V	.01µF	+80 -20%	0.33	478-1052-1-ND	8.25	48.75	140.63	478-1052-2-ND	15,000	135.00/M	0201ZG103ZAT2A
		6.3V	.015µF	+80 -20%	0.33	478-1053-1-ND	8.25	48.75	140.63	478-1053-2-ND	15,000	135.00/M	02016G153ZAT2A
			.022µF	+80 -20%	0.33	478-1054-1-ND	8.25	48.75	140.63	478-1054-2-ND	15,000	135.00/M	02016G223ZAT2A
			.033µF	+80 -20%	0.33	478-1055-1-ND	8.25	48.75	140.63	478-1055-2-ND	15,000	135.00/M	02016G333ZAT2A
			.047µF	+80 -20%	0.33	478-1056-1-ND	6.60	39.00	112.50	478-1056-2-ND	15,000	108.00/M	02016G473ZAT2A
0402	C0G (NP0)	50V	.5pF	±.25pF	0.56	478-1057-1-ND	3.30	19.50	56.25	478-1057-2-ND	10,000	54.00/M	04025A0R5CAT2A
			1.0pF	±.25pF	0.56	478-1058-1-ND	1.10	6.50	18.75	478-1058-2-ND	10,000	18.00/M	04025A1R0CAT2A
			1.2pF	±.25pF	0.56	478-1059-1-ND	4.40	26.00	75.00	478-1059-2-ND	10,000	72.00/M	04025A1R2CAT2A
			1.5pF	±.25pF	0.56	478-1060-1-ND	1.10	6.50	18.75	478-1060-2-ND	10,000	18.00/M	04025A1R5CAT2A
			1.8pF	±.25pF	0.56	478-1061-1-ND	3.30	19.50	56.25	478-1061-2-ND	10,000	54.00/M	04025A1R8CAT2A
			2.2pF	±.25pF	0.56	478-1062-1-ND	3.30	19.50	56.25	478-1062-2-ND	10,000	54.00/M	04025A2R2CAT2A
			2.7pF	±.25pF	0.56	478-1063-1-ND	3.30	19.50	56.25	478-1063-2-ND	10,000	54.00/M	04025A2R7CAT2A
			3.3pF	±.25pF	0.56	478-1064-1-ND	3.30	19.50	56.25	478-1064-2-ND	10,000	54.00/M	04025A3R3CAT2A
			3.9pF	±.25pF	0.56	478-1065-1-ND	4.40	26.00	75.00	478-1065-2-ND	10,000	72.00/M	04025A3R9CAT2A
			4.7pF	±.25pF	0.56	478-1066-1-ND	4.40	26.00	75.00	478-1066-2-ND	10,000	72.00/M	04025A4R7CAT2A
			5.6pF	±.25pF	0.56	478-1067-1-ND	3.30	19.50	56.25	478-1067-2-ND	10,000	54.00/M	04025A5R6CAT2A
			6.8pF	±.25pF	0.56	478-1068-1-ND	3.30	19.50	56.25	478-1068-2-ND	10,000	54.00/M	04025A6R8CAT2A
			8.2pF	±.25pF	0.56	478-1069-1-ND	3.30	19.50	56.25	478-1069-2-ND	10,000	54.00/M	04025A8R2CAT2A
			10pF	±5%	0.56	478-1070-1-ND	1.10	6.50	18.75	478-1070-2-ND	10,000	18.00/M	04025A100JAT2A
			12pF	±5%	0.56	478-1071-1-ND	1.10	6.50	18.75	478-1071-2-ND	10,000	18.00/M	04025A120JAT2A
			15pF	±5%	0.56	478-1072-1-ND	1.10	6.50	18.75	478-1072-2-ND	10,000	18.00/M	04025A150JAT2A
			18pF	±5%	0.56	478-1073-1-ND	1.10	6.50	18.75	478-1073-2-ND	10,000	18.00/M	04025A180JAT2A
			22pF	±5%	0.56	478-1074-1-ND	1.10	6.50	18.75	478-1074-2-ND	10,000	18.00/M	04025A220JAT2A
			27pF	±5%	0.56	478-1075-1-ND	1.10	6.50	18.75	478-1075-2-ND	10,000	18.00/M	04025A270JAT2A
			33pF	±5%	0.56	478-1076-1-ND	1.10	6.50	18.75	478-1076-2-ND	10,000	18.00/M	04025A330JAT2A
			39pF	±5%	0.56	478-1077-1-ND	1.10	6.50	18.75	478-1077-2-ND	10,000	18.00/M	04025A390JAT2A
			47pF	±5%	0.56	478-1078-1-ND	1.10	6.50	18.75	478-1078-2-ND	10,000	18.00/M	04025A470JAT2A
			56pF	±5%	0.56	478-1079-1-ND	1.10	6.50	18.75	478-1079-2-ND	10,000	18.00/M	04025A560JAT2A
			68pF	±5%	0.56	478-1080-1-ND	1.10	6.50	18.75	478-1080-2-ND	10,000	18.00/M	04025A680JAT2A
			82pF	±5%	0.56	478-1081-1-ND	3.30	19.50	56.25	478-1081-2-ND	10,000	54.00/M	04025A820JAT2A
			100pF	±5%	0.56	478-1082-1-ND	2.75	16.25	46.88	478-1082-2-ND	10,000	45.00/M	04025A101JAT2A
			120pF	±5%	0.56	478-1083-1-ND	1.10	6.50	18.75	478-1083-2-ND	10,000	18.00/M	04025A121JAT2A

† *RoHS Compliant*

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AVX Part No.
							10	100	500		Size	Pricing	
0402	C0G (NP0)	50V	150pF	±5%	0.56	478-1084-1-ND	1.10	6.50	18.75	478-1084-2-ND	10,000	18.00/M	04025A151JAT2A
			180pF	±5%	0.56	478-1085-1-ND	1.10	6.50	18.75	478-1085-2-ND	10,000	18.00/M	04025A181JAT2A
	X7R	50V	100pF	±10%	0.56	478-1089-1-ND	2.20	13.00	37.50	478-1089-2-ND	10,000	36.00/M	04025C101KAT2A
			120pF	±10%	0.56	478-1090-1-ND	1.10	6.50	18.75	478-1090-2-ND	10,000	18.00/M	04025C121KAT2A
			150pF	±10%	0.56	478-1091-1-ND	1.10	6.50	18.75	478-1091-2-ND	10,000	18.00/M	04025C151KAT2A
			180pF	±10%	0.56	478-1092-1-ND	1.10	6.50	18.75	478-1092-2-ND	10,000	18.00/M	04025C181KAT2A
			220pF	±10%	0.56	478-1093-1-ND	3.30	19.50	56.25	478-1093-2-ND	10,000	54.00/M	04025C221KAT2A
			270pF	±10%	0.56	478-1094-1-ND	3.30	19.50	56.25	478-1094-2-ND	10,000	54.00/M	04025C271KAT2A
			330pF	±10%	0.56	478-1095-1-ND	3.30	19.50	56.25	478-1095-2-ND	10,000	54.00/M	04025C331KAT2A
			390pF	±10%	0.56	478-1096-1-ND	1.10	6.50	18.75	478-1096-2-ND	10,000	18.00/M	04025C391KAT2A
			470pF	±10%	0.56	478-1097-1-ND	3.30	19.50	56.25	478-1097-2-ND	10,000	54.00/M	04025C471KAT2A
			560pF	±10%	0.56	478-1098-1-ND	1.10	6.50	18.75	478-1098-2-ND	10,000	18.00/M	04025C561KAT2A
			680pF	±10%	0.56	478-1099-1-ND	1.10	6.50	18.75	478-1099-2-ND	10,000	18.00/M	04025C681KAT2A
			820pF	±10%	0.56	478-1100-1-ND	1.10	6.50	18.75	478-1100-2-ND	10,000	18.00/M	04025C821KAT2A
			1000pF	±10%	0.56	478-1101-1-ND	1.10	6.50	18.75	478-1101-2-ND	10,000	18.00/M	04025C102KAT2A
			1200pF	±10%	0.56	478-1102-1-ND	1.10	6.50	18.75	478-1102-2-ND	10,000	18.00/M	04025C122KAT2A
			1500pF	±10%	0.56	478-1103-1-ND	3.30	19.50	56.25	478-1103-2-ND	10,000	54.00/M	04025C152KAT2A
			1800pF	±10%	0.56	478-1104-1-ND	3.30	19.50	56.25	478-1104-2-ND	10,000	54.00/M	04025C182KAT2A
			2200pF	±10%	0.56	478-1105-1-ND	2.75	16.25	46.88	478-1105-2-ND	10,000	45.00/M	04025C222KAT2A
			2700pF	±10%	0.56	478-1106-1-ND	3.30	19.50	56.25	478-1106-2-ND	10,000	54.00/M	04025C272KAT2A
			3300pF	±10%	0.56	478-1107-1-ND	1.10	6.50	18.75	478-1107-2-ND	10,000	18.00/M	04025C332KAT2A
			3900pF	±10%	0.56	478-1108-1-ND	3.30	19.50	56.25	478-1108-2-ND	10,000	54.00/M	04025C392KAT2A
			4700pF	±10%	0.56	478-1109-1-ND	1.10	6.50	18.75	478-1109-2-ND	10,000	18.00/M	04025C472KAT2A
			5600pF	±10%	0.56	478-1110-1-ND	2.20	13.00	37.50	478-1110-2-ND	10,000	36.00/M	04025C562KAT2A
			6800pF	±10%	0.56	478-1111-1-ND	2.20	13.00	37.50	478-1111-2-ND	10,000	36.00/M	04025C682KAT2A
			8200pF	±10%	0.56	478-1112-1-ND	2.20	13.00	37.50	478-1112-2-ND	10,000	36.00/M	04025C822KAT2A
		25V	.01µF	±10%	0.56	478-1113-1-ND	3.30	19.50	56.25	478-1113-2-ND	10,000	54.00/M	04023C103KAT2A
		16V	.01µF	±10%	0.56	478-1114-1-ND	1.10	6.50	18.75	478-1114-2-ND	10,000	18.00/M	0402YC103KAT2A
			.012µF	±10%	0.56	478-1115-1-ND	1.10	6.50	18.75	478-1115-2-ND	10,000	18.00/M	0402YC123KAT2A
			.015µF	±10%	0.56	478-1116-1-ND	1.10	6.50	18.75	478-1116-2-ND	10,000	18.00/M	0402YC153KAT2A
			.018µF	±10%	0.56	478-1117-1-ND	1.10	6.50	18.75	478-1117-2-ND	10,000	18.00/M	0402YC183KAT2A
			.022µF	±10%	0.56	478-1118-1-ND	1.10	6.50	18.75	478-1118-2-ND	10,000	18.00/M	0402YC223KAT2A
		10V	.027µF	±10%	0.56	478-1119-1-ND	4.18	24.70	71.25	478-1119-2-ND	10,000	68.00/M	0402ZC273KAT2A
			.033µF	±10%	0.56	478-1120-1-ND	4.40	26.00	75.00	478-1120-2-ND	10,000	72.00/M	0402ZC333KAT2A
			.039µF	±10%	0.56	478-1121-1-ND	4.40	26.00	75.00	478-1121-2-ND	10,000	72.00/M	0402ZC393KAT2A
	X5R	16V	.027µF	±10%	0.56	478-1122-1-ND	1.10	6.50	18.75	478-1122-2-ND	10,000	18.00/M	0402YD273KAT2A
			.033µF	±10%	0.56	478-1123-1-ND	1.10	6.50	18.75	478-1123-2-ND	10,000	18.00/M	0402YD333KAT2A
			.039µF	±10%	0.56	478-1124-1-ND	1.10	6.50	18.75	478-1124-2-ND	10,000	18.00/M	0402YD393KAT2A
			.047µF	±10%	0.56	478-1125-1-ND	1.10	6.50	18.75	478-1125-2-ND	10,000	18.00/M	0402YD473KAT2A
			.10µF	±10%	0.56	478-1126-1-ND	6.05	35.75	103.13	478-1126-2-ND	10,000	99.00/M	0402YD104KAT2A
		10V	.068µF	±10%	0.56	478-1128-1-ND	1.10	6.50	18.75	478-1128-2-ND	10,000	18.00/M	0402ZD683KAT2A
			.10µF	±10%	0.56	478-1129-1-ND	1.10	6.50	18.75	478-1129-2-ND	10,000	18.00/M	0402ZD104KAT2A
		6.3V	.15µF	±10%	0.56	478-1130-1-ND	6.60	39.00	112.50	478-1130-2-ND	10,000	108.00/M	04026D154KAT2A
			.18µF	±10%	0.56	478-1131-1-ND	7.70	45.50	131.25	478-1131-2-ND	10,000	126.00/M	04026D184KAT2A
			.22µF	±10%	0.56	478-1132-1-ND	6.60	39.00	112.50	478-1132-2-ND	10,000	108.00/M	04026D224KAT2A
			1.0µF	±10%	0.56	478-2583-1-ND	5.50	32.50	93.75	478-2583-2-ND	10,000	90.00/M	04026D105KAT2A
	Y5V	50V	.01µF	+80 -20%	0.56	478-1133-1-ND	2.20	13.00	37.50	478-1133-2-ND	10,000	36.00/M	04025G103ZAT2A
			.022µF	+80 -20%	0.56	478-1134-1-ND	2.20	13.00	37.50	478-1134-2-ND	10,000	36.00/M	04025G223ZAT2A
			.033µF	+80 -20%	0.56	478-1135-1-ND	4.95	29.25	84.38	—	—	—	04025G333ZAT2A
		16V	.047µF	+80 -20%	0.56	478-1136-1-ND	2.20	13.00	37.50	478-1136-2-ND	10,000	36.00/M	0402YG473ZAT2A
			.068µF	+80 -20%	0.56	478-1137-1-ND	2.20	13.00	37.50	478-1137-2-ND	10,000	36.00/M	0402YG683ZAT2A
			.10µF	+80 -20%	0.56	478-1138-1-ND	2.20	13.00	37.50	478-1138-2-ND	10,000	36.00/M	0402YG104ZAT2A
		10V	.22µF	+80 -20%	0.56	478-1139-1-ND	2.20	13.00	37.50	478-1139-2-ND	10,000	36.00/M	0402ZG224ZAT2A
0603	COG (NPO)	100V	10pF	±5%	0.86	478-1140-1-ND	2.09	12.35	35.63	478-1140-2-ND	4,000	34.00/M	06031A100JAT2A
			15pF	±5%	0.86	478-1141-1-ND	1.10	6.50	18.75	478-1141-2-ND	4,000	18.00/M	06031A150JAT2A
			22pF	±5%	0.86	478-1142-1-ND	1.10	6.50	18.75	478-1142-2-ND	4,000	18.00/M	06031A220JAT2A
			33pF	±5%	0.86	478-1143-1-ND	1.10	6.50	18.75	478-1143-2-ND	4,000	18.00/M	06031A330JAT2A
			47pF	±5%	0.86	478-1144-1-ND	1.10	6.50	18.75	478-1144-2-ND	4,000	18.00/M	06031A470JAT2A
			68pF	±5%	0.86	478-1145-1-ND	1.10	6.50	18.75	478-1145-2-ND	4,000	18.00/M	06031A680JAT2A
			100pF	±5%	0.86	478-1146-1-ND	1.10	6.50	18.75	478-1146-2-ND	4,000	18.00/M	06031A101JAT2A
			150pF	±5%	0.86	478-1147-1-ND	4.95	29.25	84.38	478-1147-2-ND	4,000	81.00/M	06031A151JAT2A
			220pF	±5%	0.86	478-1148-1-ND	2.31	13.65	39.38	478-1148-2-ND	4,000	38.00/M	06031A221JAT2A
			330pF	±5%	0.86	478-1149-1-ND	4.18	24.70	71.25	478-1149-2-ND	4,000	68.00/M	06031A331JAT2A
		50V	.5pF	±.25pF	0.86	478-1150-1-ND	2.09	12.35	35.63	478-1150-2-ND	4,000	34.00/M	06035A0R5CAT2A
			1.0pF	±.25pF	0.86	478-1151-1-ND	2.09	12.35	35.63	478-1151-2-ND	4,000	34.00/M	06035A1R0CAT2A
			1.2pF	±.25pF	0.86	478-1152-1-ND	2.09	12.35	35.63	478-1152-2-ND	4,000	34.00/M	06035A1R2CAT2A
			1.5pF	±.25pF	0.86	478-1153-1-ND	2.09	12.35	35.63	478-1153-2-ND	4,000	34.00/M	06035A1R5CAT2A
			1.8pF	±.25pF	0.86	478-1154-1-ND	2.09	12.35	35.63	478-1154-2-ND	4,000	34.00/M	06035A1R8CAT2A
			2.2pF	±.25pF	0.86	478-1155-1-ND	2.09	12.35	35.63	478-1155-2-ND	4,000	34.00/M	06035A2R2CAT2A
			2.7pF	±.25pF	0.86	478-1156-1-ND	2.09	12.35	35.63	478-1156-2-ND	4,000	34.00/M	06035A2R7CAT2A
			3.3pF	±.25pF	0.86	478-1157-1-ND	2.09	12.35	35.63	478-1157-2-ND	4,000	34.00/M	06035A3R3CAT2A
			3.9pF	±.25pF	0.86	478-1158-1-ND	2.09	12.35	35.63	478-1158-2-ND	4,000	34.00/M	06035A3R9CAT2A
			4.7pF	±.25pF	0.86	478-1159-1-ND	2.09	12.35	35.63	478-1159-2-ND	4,000	34.00/M	06035A4R7CAT2A
			5.6pF	±.25pF	0.86	478-1160-1-ND	2.09	12.35	35.63	478-1160-2-ND	4,000	34.00/M	06035A5R6CAT2A
			6.8pF	±.25pF	0.86	478-1161-1-ND	2.09	12.35	35.63	478-1161-2-ND	4,000	34.00/M	06035A6R8CAT2A
			8.2pF	±.25pF	0.86	478-1162-1-ND	2.09	12.35	35.63	478-1162-2-ND	4,000	34.00/M	06035A8R2CAT2A
			10pF	±5%	0.86	478-1163-1-ND	1.87	11.05	31.88	478-1163-2-ND	4,000	31.00/M	06035A100JAT2A
			12pF	±5%	0.86	478-1164-1-ND	1.65	9.75	28.13	478-1164-2-ND	4,000	27.00/M	06035A120JAT2A
			15pF	±5%	0.86	478-1165-1-ND	1.10	6.50	18.75	478-1165-2-ND	4,000	18.00/M	06035A150JAT2A
			18pF	±5%	0.86	478-1166-1-ND	2.09	12.35	35.63	478-1166-2-ND	4,000	34.00/M	06035A180JAT2A
			22pF	±5%	0.86	478-1167-1-ND	1.10	6.50	18.75	478-1167-2-ND	4,000	18.00/M	06035A220JAT2A
			27pF	±5%	0.86	478-1168-1-ND	1.10	6.50	18.75	478-1168-2-ND	4,000	18.00/M	06035A270JAT2A
			33pF	±5%	0.86	478-1169-1-ND	1.65	9.75	28.13	478-1169-2-ND	4,000	27.00/M	06035A330JAT2A
			39pF	±5%	0.86	478-1170-1-ND	2.09	12.35	35.63	478-1170-2-ND	4,000	34.00/M	06035A390JAT2A
			47pF	±5%	0.86	478-1171-1-ND	1.10	6.50	18.75	478-1171-2-ND	4,000	18.00/M	06035A470JAT2A
			56pF	±5%	0.86	478-1172-1-ND	2.09	12.35	35.63	478-1172-2-ND	4,000	34.00/M	06035A560JAT2A
			68pF	±5%	0.86	478-1173-1-ND	2.20	13.00	37.50	478-1173-2-ND	4,000	36.00/M	06035A680JAT2A
			82pF	±5%	0.86	478-1174-1-ND	2.09	12.35	35.63	478-1174-2-ND	4,000	34.00/M	06035A820JAT2A
			100pF	±5%	0.86	478-1175-1-ND	1.10	6.50	18.75	478-1175-2-ND	4,000	18.00/M	06035A101JAT2A
			120pF	±5%	0.86	478-1176-1-ND	2.20	13.00	37.50	478-1176-2-ND	4,000	36.00/M	06035A121JAT2A
			150pF	±5%	0.86	478-1177-1-ND	1.10	6.50	18.75	478-1177-2-ND	4,000	18.00/M	06035A151JAT2A

† ***RoHS Compliant***

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Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AVX Part No.
							10	100	500		Size	Pricing	
0603	C0G (NP0)	50V	180pF	±5%	0.86	478-1178-1-ND	1.10	6.50	18.75	478-1178-2-ND	4,000	18.00/M	06035A181JAT2A
			220pF	±5%	0.86	478-1179-1-ND	2.20	13.00	37.50	478-1179-2-ND	4,000	36.00/M	06035A221JAT2A
			270pF	±5%	0.86	478-1180-1-ND	1.10	6.50	18.75	478-1180-2-ND	4,000	18.00/M	06035A271JAT2A
			330pF	±5%	0.86	478-1181-1-ND	2.20	13.00	37.50	478-1181-2-ND	4,000	36.00/M	06035A331JAT2A
			390pF	±5%	0.86	478-1182-1-ND	2.20	13.00	37.50	478-1182-2-ND	4,000	36.00/M	06035A391JAT2A
			470pF	±5%	0.86	478-1183-1-ND	1.10	6.50	18.75	478-1183-2-ND	4,000	18.00/M	06035A471JAT2A
			560pF	±5%	0.86	478-1184-1-ND	2.20	13.00	37.50	478-1184-2-ND	4,000	36.00/M	06035A561JAT2A
	X7R	200V	220pF	±10%	0.86	478-1190-1-ND	1.10	6.50	18.75	478-1190-2-ND	4,000	18.00/M	06032C221KAT2A
			330pF	±10%	0.86	478-1191-1-ND	1.10	6.50	18.75	478-1191-2-ND	4,000	18.00/M	06032C331KAT2A
			470pF	±10%	0.86	478-1192-1-ND	1.10	6.50	18.75	478-1192-2-ND	4,000	18.00/M	06032C471KAT2A
			680pF	±10%	0.86	478-1193-1-ND	1.10	6.50	18.75	478-1193-2-ND	4,000	18.00/M	06032C681KAT2A
			1000pF	±10%	0.86	478-1194-1-ND	1.10	6.50	18.75	478-1194-2-ND	4,000	18.00/M	06032C102KAT2A
		100V	220pF	±10%	0.86	478-1195-1-ND	1.10	6.50	18.75	478-1195-2-ND	4,000	18.00/M	06031C221KAT2A
			330pF	±10%	0.86	478-1196-1-ND	1.10	6.50	18.75	478-1196-2-ND	4,000	18.00/M	06031C331KAT2A
			470pF	±10%	0.86	478-1197-1-ND	1.10	6.50	18.75	478-1197-2-ND	4,000	18.00/M	06031C471KAT2A
			680pF	±10%	0.86	478-1198-1-ND	1.10	6.50	18.75	478-1198-2-ND	4,000	18.00/M	06031C681KAT2A
			1000pF	±10%	0.86	478-1199-1-ND	1.10	6.50	18.75	478-1199-2-ND	4,000	18.00/M	06031C102KAT2A
			1500pF	±10%	0.86	478-1200-1-ND	2.09	12.35	35.63	478-1200-2-ND	4,000	34.00/M	06031C152KAT2A
			2200pF	±10%	0.86	478-1201-1-ND	2.09	12.35	35.63	478-1201-2-ND	4,000	34.00/M	06031C222KAT2A
			3300pF	±10%	0.86	478-1202-1-ND	2.09	12.35	35.63	478-1202-2-ND	4,000	34.00/M	06031C332KAT2A
			4700pF	±10%	0.86	478-1203-1-ND	2.09	12.35	35.63	478-1203-2-ND	4,000	34.00/M	06031C472KAT2A
			6800pF	±10%	0.86	478-1204-1-ND	2.09	12.35	35.63	478-1204-2-ND	4,000	34.00/M	06031C682KAT2A
			.01µF	±10%	0.86	478-1205-1-ND	4.51	26.65	76.88	478-1205-2-ND	4,000	74.00/M	06031C103KAT2A
		50V	180pF	±10%	0.86	478-1206-1-ND	2.09	12.35	35.63	478-1206-2-ND	4,000	34.00/M	06035C181KAT2A
			220pF	±10%	0.86	478-1207-1-ND	2.09	12.35	35.63	478-1207-2-ND	4,000	34.00/M	06035C221KAT2A
			270pF	±10%	0.86	478-1208-1-ND	2.09	12.35	35.63	478-1208-2-ND	4,000	34.00/M	06035C271KAT2A
			330pF	±10%	0.86	478-1209-1-ND	2.09	12.35	35.63	478-1209-2-ND	4,000	34.00/M	06035C331KAT2A
			390pF	±10%	0.86	478-1210-1-ND	2.09	12.35	35.63	478-1210-2-ND	4,000	34.00/M	06035C391KAT2A
			470pF	±10%	0.86	478-1211-1-ND	2.09	12.35	35.63	478-1211-2-ND	4,000	34.00/M	06035C471KAT2A
			560pF	±10%	0.86	478-1212-1-ND	2.09	12.35	35.63	478-1212-2-ND	4,000	34.00/M	06035C561KAT2A
			680pF	±10%	0.86	478-1213-1-ND	2.09	12.35	35.63	478-1213-2-ND	4,000	34.00/M	06035C681KAT2A
			820pF	±10%	0.86	478-1214-1-ND	2.09	12.35	35.63	478-1214-2-ND	4,000	34.00/M	06035C821KAT2A
			1000pF	±10%	0.86	478-1215-1-ND	.88	5.20	15.00	478-1215-2-ND	4,000	14.00/M	06035C102KAT2A
			1200pF	±10%	0.86	478-1216-1-ND	1.10	6.50	18.75	478-1216-2-ND	4,000	18.00/M	06035C122KAT2A
			1500pF	±10%	0.86	478-1217-1-ND	1.10	6.50	18.75	478-1217-2-ND	4,000	18.00/M	06035C152KAT2A
			1800pF	±10%	0.86	478-1218-1-ND	1.10	6.50	18.75	478-1218-2-ND	4,000	18.00/M	06035C182KAT2A
			2200pF	±10%	0.86	478-1219-1-ND	1.10	6.50	18.75	478-1219-2-ND	4,000	18.00/M	06035C222KAT2A
			2700pF	±10%	0.86	478-1220-1-ND	1.10	6.50	18.75	478-1220-2-ND	4,000	18.00/M	06035C272KAT2A
			3300pF	±10%	0.86	478-1221-1-ND	2.20	13.00	37.50	478-1221-2-ND	4,000	36.00/M	06035C332KAT2A
			3900pF	±10%	0.86	478-1222-1-ND	1.10	6.50	18.75	478-1222-2-ND	4,000	18.00/M	06035C392KAT2A
			4700pF	±10%	0.86	478-1223-1-ND	2.09	12.35	35.63	478-1223-2-ND	4,000	34.00/M	06035C472KAT2A
			5600pF	±10%	0.86	478-1224-1-ND	1.10	6.50	18.75	478-1224-2-ND	4,000	18.00/M	06035C562KAT2A
			6800pF	±10%	0.86	478-1225-1-ND	2.09	12.35	35.63	478-1225-2-ND	4,000	34.00/M	06035C682KAT2A
			8200pF	±10%	0.86	478-1226-1-ND	1.10	6.50	18.75	478-1226-2-ND	4,000	18.00/M	06035C822KAT2A
			.01µF	±10%	0.86	478-1227-1-ND	.88	5.20	15.00	478-1227-2-ND	4,000	14.00/M	06035C103KAT2A
			.012µF	±10%	0.86	478-1228-1-ND	1.10	6.50	18.75	478-1228-2-ND	4,000	18.00/M	06035C123KAT2A
			.015µF	±10%	0.86	478-1229-1-ND	1.10	6.50	18.75	478-1229-2-ND	4,000	18.00/M	06035C153KAT2A
			.018µF	±10%	0.86	478-1230-1-ND	1.10	6.50	18.75	478-1230-2-ND	4,000	18.00/M	06035C183KAT2A
			.022µF	±10%	0.86	478-1231-1-ND	1.10	6.50	18.75	478-1231-2-ND	4,000	18.00/M	06035C223KAT2A
			.027µF	±10%	0.86	478-1232-1-ND	1.10	6.50	18.75	478-1232-2-ND	4,000	18.00/M	06035C273KAT2A
			.033µF	±10%	0.86	478-1233-1-ND	1.10	6.50	18.75	478-1233-2-ND	4,000	18.00/M	06035C333KAT2A
			.039µF	±10%	0.86	478-1234-1-ND	1.10	6.50	18.75	478-1234-2-ND	4,000	18.00/M	06035C393KAT2A
		25V	.047µF	±10%	0.86	478-1235-1-ND	1.10	6.50	18.75	478-1235-2-ND	4,000	18.00/M	06033C473KAT2A
		16V	.056µF	±10%	0.86	478-1236-1-ND	1.10	6.50	18.75	478-1236-2-ND	4,000	18.00/M	0603YC563KAT2A
			.068µF	±10%	0.86	478-1237-1-ND	1.10	6.50	18.75	478-1237-2-ND	4,000	18.00/M	0603YC683KAT2A
			.082µF	±10%	0.86	478-1238-1-ND	1.10	6.50	18.75	478-1238-2-ND	4,000	18.00/M	0603YC823KAT2A
			.10µF	±10%	0.86	478-1239-1-ND	.88	5.20	15.00	478-1239-2-ND	4,000	14.00/M	0603YC104KAT2A
		10V	.12µF	±10%	0.86	478-1240-1-ND	3.85	22.75	65.63	478-1240-2-ND	4,000	63.00/M	0603ZC124KAT2A
			.15µF	±10%	0.86	478-1241-1-ND	3.85	22.75	65.63	478-1241-2-ND	4,000	63.00/M	0603ZC154KAT2A
			.18µF	±10%	0.86	478-1242-1-ND	4.40	26.00	75.00	478-1242-2-ND	4,000	72.00/M	0603ZC184KAT2A
			.22µF	±10%	0.86	478-1243-1-ND	1.10	6.50	18.75	478-1243-2-ND	4,000	18.00/M	0603ZC224KAT2A
	X5R	25V	.10µF	±10%	0.86	478-1244-1-ND	3.85	22.75	65.63	478-1244-2-ND	4,000	63.00/M	06033D104KAT2A
			.22µF	±10%	0.86	478-1245-1-ND	4.95	29.25	84.38	478-1245-2-ND	4,000	81.00/M	06033D224KAT2A
		16V	.22µF	±10%	0.86	478-1246-1-ND	4.40	26.00	75.00	478-1246-2-ND	4,000	72.00/M	0603YD224KAT2A
			.33µF	±10%	0.86	478-1247-1-ND	1.87	11.05	31.88	478-1247-2-ND	4,000	31.00/M	0603YD334KAT2A
			.47µF	±10%	0.86	478-1248-1-ND	1.87	11.05	31.88	478-1248-2-ND	4,000	31.00/M	0603YD474KAT2A
			1.0µF	±10%	0.86	478-1249-1-ND	2.20	13.00	37.50	478-1249-2-ND	4,000	36.00/M	0603YD105KAT2A
		10V	.68µF	±10%	0.86	478-1250-1-ND	2.20	13.00	37.50	478-1250-2-ND	4,000	36.00/M	0603ZD684KAT2A
			1.0µF	±10%	0.86	478-1251-1-ND	1.76	10.40	30.00	478-1251-2-ND	4,000	29.00/M	0603ZD105KAT2A
		6.3V	1.0µF	±10%	0.86	478-2581-1-ND	6.60	39.00	112.50	478-2581-2-ND	4,000	108.00/M	06036D105KAT2A
			2.2µF	±10%	0.86	478-1252-1-ND	4.40	26.00	75.00	478-1252-2-ND	4,000	72.00/M	06036D225KAT2A
			4.7µF	±20%	0.86	478-2582-1-ND	8.80	52.00	150.00	478-2582-2-ND	4,000	144.00/M	06036D475MAT2A
		4V	4.7µF	±10%	0.94	478-1253-1-ND	6.60	39.00	112.50	478-1253-2-ND	4,000	108.00/M	06034D475KAT2A
	Y5V	50V	.01µF	+80 -20%	0.86	478-1254-1-ND	1.10	6.50	18.75	478-1254-2-ND	4,000	18.00/M	06035G103ZAT2A
			.022µF	+80 -20%	0.86	478-1255-1-ND	1.10	6.50	18.75	478-1255-2-ND	4,000	18.00/M	06035G223ZAT2A
			.033µF	+80 -20%	0.86	478-1256-1-ND	1.10	6.50	18.75	478-1256-2-ND	4,000	18.00/M	06035G333ZAT2A
			.047µF	+80 -20%	0.86	478-1257-1-ND	1.10	6.50	18.75	478-1257-2-ND	4,000	18.00/M	06035G473ZAT2A
			.068µF	+80 -20%	0.86	478-1258-1-ND	1.10	6.50	18.75	478-1258-2-ND	4,000	18.00/M	06035G683ZAT2A
		25V	.10µF	+80 -20%	0.86	478-1259-1-ND	1.10	6.50	18.75	478-1259-2-ND	4,000	18.00/M	06033G104ZAT2A
			.15µF	+80 -20%	0.86	478-1260-1-ND	2.20	13.00	37.50	478-1260-2-ND	4,000	36.00/M	06033G154ZAT2A
			.22µF	+80 -20%	0.86	478-1261-1-ND	1.10	6.50	18.75	478-1261-2-ND	4,000	18.00/M	06033G224ZAT2A
		16V	.33µF	+80 -20%	0.86	478-1262-1-ND	2.20	13.00	37.50	478-1262-2-ND	4,000	36.00/M	0603YG334ZAT2A
			.47µF	+80 -20%	0.86	478-1263-1-ND	1.10	6.50	18.75	478-1263-2-ND	4,000	18.00/M	0603YG474ZAT2A
			1.0µF	+80 -20%	0.86	478-1264-1-ND	1.10	6.50	18.75	478-1264-2-ND	4,000	18.00/M	0603YG105ZAT2A
		10V	1.0µF	+80 -20%	0.86	478-1265-1-ND	1.10	6.50	18.75	478-1265-2-ND	4,000	18.00/M	0603ZG105ZAT2A
0805	C0G (NP0)	200V	10pF	±5%	0.94	478-1266-1-ND	3.71	21.91	63.19	478-1266-2-ND	4,000	61.00/M	08052A100JAT2A
			15pF	±5%	0.94	478-1267-1-ND	2.20	13.00	37.50	478-1267-2-ND	4,000	36.00/M	08052A150JAT2A
			22pF	±5%	0.94	478-1268-1-ND	2.20	13.00	37.50	478-1268-2-ND	4,000	36.00/M	08052A220JAT2A
			33pF	±5%	0.94	478-1269-1-ND	2.20	13.00	37.50	478-1269-2-ND	4,000	36.00/M	08052A330JAT2A

† RoHS Compliant

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	AVX Part No.
0805	C0G (NP0)	200V	47pF	±5%	0.94	478-1270-1-ND	2.20	13.00	37.50	478-1270-2-ND	4,000	36.00/M	08052A470JAT2A
			68pF	±5%	0.94	478-1271-1-ND	8.25	48.75	140.63	478-1271-2-ND	4,000	135.00/M	08052A680JAT2A
			100pF	±5%	0.94	478-1272-1-ND	8.25	48.75	140.63	478-1272-2-ND	4,000	135.00/M	08052A101JAT2A
			150pF	±5%	0.94	478-1273-1-ND	8.25	48.75	140.63	478-1273-2-ND	4,000	135.00/M	08052A151JAT2A
			220pF	±5%	0.94	478-1274-1-ND	8.25	48.75	140.63	478-1274-2-ND	4,000	135.00/M	08052A221JAT2A
			330pF	±5%	1.27	478-1275-1-ND	8.25	48.75	140.63	478-1275-2-ND	2,000	135.00/M	08052A331JAT2A
			470pF	±5%	1.27	478-1276-1-ND	3.96	23.40	67.50	478-1276-2-ND	2,000	65.00/M	08052A471JAT2A
		100V	10pF	±5%	0.71	478-1278-1-ND	2.20	13.00	37.50	478-1278-2-ND	4,000	36.00/M	08051A100JAT2A
			15pF	±5%	0.71	478-1279-1-ND	2.20	13.00	37.50	478-1279-2-ND	4,000	36.00/M	08051A150JAT2A
			22pF	±5%	0.71	478-1280-1-ND	2.20	13.00	37.50	478-1280-2-ND	4,000	36.00/M	08051A220JAT2A
			33pF	±5%	0.71	478-1281-1-ND	2.31	13.65	39.38	478-1281-2-ND	4,000	38.00/M	08051A330JAT2A
			47pF	±5%	0.71	478-1282-1-ND	2.20	13.00	37.50	478-1282-2-ND	4,000	36.00/M	08051A470JAT2A
			68pF	±5%	0.71	478-1283-1-ND	2.20	13.00	37.50	478-1283-2-ND	4,000	36.00/M	08051A680JAT2A
			100pF	±5%	0.71	478-1284-1-ND	2.20	13.00	37.50	478-1284-2-ND	4,000	36.00/M	08051A101JAT2A
			150pF	±5%	0.71	478-1285-1-ND	2.20	13.00	37.50	478-1285-2-ND	4,000	36.00/M	08051A151JAT2A
			220pF	±5%	0.71	478-1286-1-ND	2.97	17.55	50.63	478-1286-2-ND	4,000	49.00/M	08051A221JAT2A
			330pF	±5%	0.94	478-1287-1-ND	2.20	13.00	37.50	478-1287-2-ND	4,000	36.00/M	08051A331JAT2A
			470pF	±5%	0.94	478-1288-1-ND	2.20	13.00	37.50	478-1288-2-ND	4,000	36.00/M	08051A471JAT2A
			680pF	±5%	0.94	478-1289-1-ND	2.20	13.00	37.50	478-1289-2-ND	4,000	36.00/M	08051A681JAT2A
			1000pF	±5%	0.94	478-1290-1-ND	3.30	19.50	56.25	478-1290-2-ND	4,000	54.00/M	08051A102JAT2A
		50V	.5pF	±.25pF	0.71	478-1291-1-ND	2.20	13.00	37.50	478-1291-2-ND	4,000	36.00/M	08055A0R5CAT2A
			1.0pF	±.25pF	0.71	478-1292-1-ND	2.20	13.00	37.50	478-1292-2-ND	4,000	36.00/M	08055A1R0CAT2A
			1.2pF	±.25pF	0.71	478-1293-1-ND	2.31	13.65	39.38	478-1293-2-ND	4,000	38.00/M	08055A1R2CAT2A
			1.5pF	±.25pF	0.71	478-1294-1-ND	2.20	13.00	37.50	478-1294-2-ND	4,000	36.00/M	08055A1R5CAT2A
			1.8pF	±.25pF	0.71	478-1295-1-ND	2.31	13.65	39.38	478-1295-2-ND	4,000	38.00/M	08055A1R8CAT2A
			2.2pF	±.25pF	0.71	478-1296-1-ND	2.31	13.65	39.38	478-1296-2-ND	4,000	38.00/M	08055A2R2CAT2A
			2.7pF	±.25pF	0.71	478-1297-1-ND	2.31	13.65	39.38	478-1297-2-ND	4,000	38.00/M	08055A2R7CAT2A
			3.3pF	±.25pF	0.71	478-1298-1-ND	2.31	13.65	39.38	478-1298-2-ND	4,000	38.00/M	08055A3R3CAT2A
			3.9pF	±.25pF	0.71	478-1299-1-ND	2.31	13.65	39.38	478-1299-2-ND	4,000	38.00/M	08055A3R9CAT2A
			4.7pF	±.25pF	0.71	478-1300-1-ND	2.31	13.65	39.38	478-1300-2-ND	4,000	38.00/M	08055A4R7CAT2A
			5.6pF	±.25pF	0.71	478-1301-1-ND	2.31	13.65	39.38	478-1301-2-ND	4,000	38.00/M	08055A5R6CAT2A
			6.8pF	±.25pF	0.71	478-1302-1-ND	2.31	13.65	39.38	478-1302-2-ND	4,000	38.00/M	08055A6R8CAT2A
			8.2pF	±.25pF	0.71	478-1303-1-ND	2.31	13.65	39.38	478-1303-2-ND	4,000	38.00/M	08055A8R2CAT2A
			10pF	±5%	0.71	478-1304-1-ND	1.10	6.50	18.75	478-1304-2-ND	4,000	18.00/M	08055A100JAT2A
			12pF	±5%	0.71	478-1305-1-ND	1.10	6.50	18.75	478-1305-2-ND	4,000	18.00/M	08055A120JAT2A
			15pF	±5%	0.71	478-1306-1-ND	1.10	6.50	18.75	478-1306-2-ND	4,000	18.00/M	08055A150JAT2A
			18pF	±5%	0.71	478-1307-1-ND	1.10	6.50	18.75	478-1307-2-ND	4,000	18.00/M	08055A180JAT2A
			22pF	±5%	0.71	478-1308-1-ND	1.10	6.50	18.75	478-1308-2-ND	4,000	18.00/M	08055A220JAT2A
			27pF	±5%	0.71	478-1309-1-ND	1.10	6.50	18.75	478-1309-2-ND	4,000	18.00/M	08055A270JAT2A
			33pF	±5%	0.71	478-1310-1-ND	1.10	6.50	18.75	478-1310-2-ND	4,000	18.00/M	08055A330JAT2A
			39pF	±5%	0.71	478-1311-1-ND	1.10	6.50	18.75	478-1311-2-ND	4,000	18.00/M	08055A390JAT2A
			47pF	±5%	0.71	478-1312-1-ND	1.10	6.50	18.75	478-1312-2-ND	4,000	18.00/M	08055A470JAT2A
			56pF	±5%	0.71	478-1313-1-ND	1.10	6.50	18.75	478-1313-2-ND	4,000	18.00/M	08055A560JAT2A
			68pF	±5%	0.71	478-1314-1-ND	1.10	6.50	18.75	478-1314-2-ND	4,000	18.00/M	08055A680JAT2A
			82pF	±5%	0.71	478-1315-1-ND	1.10	6.50	18.75	478-1315-2-ND	4,000	18.00/M	08055A820JAT2A
			100pF	±5%	0.71	478-1316-1-ND	1.10	6.50	18.75	478-1316-2-ND	4,000	18.00/M	08055A101JAT2A
			120pF	±5%	0.71	478-1317-1-ND	1.10	6.50	18.75	478-1317-2-ND	4,000	18.00/M	08055A121JAT2A
			150pF	±5%	0.71	478-1318-1-ND	1.10	6.50	18.75	478-1318-2-ND	4,000	18.00/M	08055A151JAT2A
			180pF	±5%	0.71	478-1319-1-ND	1.65	9.75	28.13	478-1319-2-ND	4,000	27.00/M	08055A181JAT2A
			220pF	±5%	0.71	478-1320-1-ND	1.10	6.50	18.75	478-1320-2-ND	4,000	18.00/M	08055A221JAT2A
			270pF	±5%	0.71	478-1321-1-ND	2.20	13.00	37.50	478-1321-2-ND	4,000	36.00/M	08055A271JAT2A
			330pF	±5%	0.71	478-1322-1-ND	1.10	6.50	18.75	478-1322-2-ND	4,000	18.00/M	08055A331JAT2A
			390pF	±5%	0.94	478-1323-1-ND	1.32	7.80	22.50	478-1323-2-ND	4,000	22.00/M	08055A391JAT2A
			470pF	±5%	0.94	478-1324-1-ND	1.32	7.80	22.50	478-1324-2-ND	4,000	22.00/M	08055A471JAT2A
			560pF	±5%	0.94	478-1325-1-ND	1.65	9.75	28.13	478-1325-2-ND	4,000	27.00/M	08055A561JAT2A
			680pF	±5%	0.94	478-1326-1-ND	2.20	13.00	37.50	478-1326-2-ND	4,000	36.00/M	08055A681JAT2A
			820pF	±5%	0.94	478-1327-1-ND	1.65	9.75	28.13	478-1327-2-ND	4,000	27.00/M	08055A821JAT2A
			1000pF	±5%	0.94	478-1328-1-ND	2.20	13.00	37.50	478-1328-2-ND	4,000	36.00/M	08055A102JAT2A
			1500pF	±5%	0.94	478-1329-1-ND	2.97	17.55	50.63	478-1329-2-ND	4,000	49.00/M	08055A152JAT2A
			2200pF	±5%	1.27	478-1330-1-ND	2.97	17.55	50.63	478-1330-2-ND	2,000	49.00/M	08055A222JAT2A
	X7R	200V	220pF	±10%	0.71	478-1335-1-ND	8.25	48.75	140.63	478-1335-2-ND	4,000	135.00/M	08052C221KAT2A
			330pF	±10%	0.71	478-1336-1-ND	3.85	22.75	65.63	478-1336-2-ND	4,000	63.00/M	08052C331KAT2A
			470pF	±10%	0.71	478-1337-1-ND	3.85	22.75	65.63	478-1337-2-ND	4,000	63.00/M	08052C471KAT2A
			680pF	±10%	0.71	478-1338-1-ND	3.85	22.75	65.63	478-1338-2-ND	4,000	63.00/M	08052C681KAT2A
			1000pF	±10%	0.71	478-1339-1-ND	8.25	48.75	140.63	478-1339-2-ND	4,000	135.00/M	08052C102KAT2A
			1500pF	±10%	0.94	478-1340-1-ND	8.80	52.00	150.00	478-1340-2-ND	4,000	144.00/M	08052C152KAT2A
			2200pF	±10%	0.94	478-1341-1-ND	3.85	22.75	65.63	478-1341-2-ND	4,000	63.00/M	08052C222KAT2A
			3300pF	±10%	0.94	478-1342-1-ND	3.85	22.75	65.63	478-1342-2-ND	4,000	63.00/M	08052C332KAT2A
			4700pF	±10%	0.94	478-1343-1-ND	3.85	22.75	65.63	478-1343-2-ND	4,000	63.00/M	08052C472KAT2A
			6800pF	±10%	0.94	478-1344-1-ND	6.60	39.00	112.50	478-1344-2-ND	4,000	108.00/M	08052C682KAT2A
			.01µF	±10%	0.94	478-1345-1-ND	12.10	71.50	206.25	478-1345-2-ND	4,000	198.00/M	08052C103KAT2A
			.015µF	±10%	0.94	478-1346-1-ND	14.30	84.50	243.75	478-1346-2-ND	4,000	234.00/M	08052C153KAT2A
			.022µF	±10%	1.27	478-1347-1-ND	4.68	27.63	79.69	478-1347-2-ND	2,000	77.00/M	08052C223KAT2A
		100V	220pF	±10%	0.71	478-1348-1-ND	1.10	6.50	18.75	478-1348-2-ND	4,000	18.00/M	08051C221KAT2A
			330pF	±10%	0.71	478-1349-1-ND	1.10	6.50	18.75	478-1349-2-ND	4,000	18.00/M	08051C331KAT2A
			470pF	±10%	0.71	478-1350-1-ND	1.10	6.50	18.75	478-1350-2-ND	4,000	18.00/M	08051C471KAT2A
			680pF	±10%	0.71	478-1351-1-ND	1.10	6.50	18.75	478-1351-2-ND	4,000	18.00/M	08051C681KAT2A
			1000pF	±10%	0.71	478-1352-1-ND	1.10	6.50	18.75	478-1352-2-ND	4,000	18.00/M	08051C102KAT2A
			1500pF	±10%	0.71	478-1353-1-ND	1.10	6.50	18.75	478-1353-2-ND	4,000	18.00/M	08051C152KAT2A
			2200pF	±10%	0.71	478-1354-1-ND	1.10	6.50	18.75	478-1354-2-ND	4,000	18.00/M	08051C222KAT2A
			3300pF	±10%	0.71	478-1355-1-ND	1.10	6.50	18.75	478-1355-2-ND	4,000	18.00/M	08051C332KAT2A
			4700pF	±10%	0.94	478-1356-1-ND	1.10	6.50	18.75	478-1356-2-ND	4,000	18.00/M	08051C472KAT2A
			6800pF	±10%	0.94	478-1357-1-ND	1.10	6.50	18.75	478-1357-2-ND	4,000	18.00/M	08051C682KAT2A
			.01µF	±10%	0.94	478-1358-1-ND	1.10	6.50	18.75	478-1358-2-ND	4,000	18.00/M	08051C103KAT2A
			.015µF	±10%	0.94	478-1359-1-ND	2.64	15.60	45.00	478-1359-2-ND	4,000	43.00/M	08051C153KAT2A
			.022µF	±10%	0.94	478-1360-1-ND	2.64	15.60	45.00	478-1360-2-ND	4,000	43.00/M	08051C223KAT2A
			.033µF	±10%	1.27	478-1361-1-ND	3.63	21.45	61.88	478-1361-2-ND	2,000	59.00/M	08051C333KAT2A
			.047µF	±10%	1.27	478-1362-1-ND	3.63	21.45	61.88	478-1362-2-ND	2,000	59.00/M	08051C473KAT2A
			220pF	±10%	0.71	478-1363-1-ND	2.31	13.65	39.38	478-1363-2-ND	4,000	38.00/M	08055C221KAT2A
		50V	270pF	±10%	0.71	478-1364-1-ND	2.31	13.65	39.38	478-1364-2-ND	4,000	38.00/M	08055C271KAT2A

† RoHS Compliant

(Continued)

Size		WV			Dim. T	Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel		AVX
Code	Type	DC	Capacitance	Tolerance	(mm)	Part No.	10	100	500	Part No.	Size	Pricing	Part No.
0805	X7R	50V	330pF	±10%	0.71	478-1365-1-ND	2.31	13.65	39.38	478-1365-2-ND	4,000	38.00/M	08055C331KAT2A
			390pF	±10%	0.71	478-1366-1-ND	2.31	13.65	39.38	478-1366-2-ND	4,000	38.00/M	08055C391KAT2A
			470pF	±10%	0.71	478-1367-1-ND	2.31	13.65	39.38	478-1367-2-ND	4,000	38.00/M	08055C471KAT2A
			560pF	±10%	0.71	478-1368-1-ND	2.31	13.65	39.38	478-1368-2-ND	4,000	38.00/M	08055C561KAT2A
			680pF	±10%	0.71	478-1369-1-ND	2.31	13.65	39.38	478-1369-2-ND	4,000	38.00/M	08055C681KAT2A
			820pF	±10%	0.71	478-1370-1-ND	2.31	13.65	39.38	478-1370-2-ND	4,000	38.00/M	08055C821KAT2A
			1000pF	±10%	0.71	478-1371-1-ND	1.10	6.50	18.75	478-1371-2-ND	4,000	18.00/M	08055C102KAT2A
			1200pF	±10%	0.71	478-1372-1-ND	1.10	6.50	18.75	478-1372-2-ND	4,000	18.00/M	08055C122KAT2A
			1500pF	±10%	0.71	478-1373-1-ND	1.10	6.50	18.75	478-1373-2-ND	4,000	18.00/M	08055C152KAT2A
			1800pF	±10%	0.71	478-1374-1-ND	1.10	6.50	18.75	478-1374-2-ND	4,000	18.00/M	08055C182KAT2A
			2200pF	±10%	0.71	478-1375-1-ND	1.10	6.50	18.75	478-1375-2-ND	4,000	18.00/M	08055C222KAT2A
			2700pF	±10%	0.71	478-1376-1-ND	2.20	13.00	37.50	478-1376-2-ND	4,000	36.00/M	08055C272KAT2A
			3300pF	±10%	0.71	478-1377-1-ND	1.10	6.50	18.75	478-1377-2-ND	4,000	18.00/M	08055C332KAT2A
			3900pF	±10%	0.71	478-1378-1-ND	2.20	13.00	37.50	478-1378-2-ND	4,000	36.00/M	08055C392KAT2A
			4700pF	±10%	0.71	478-1379-1-ND	1.10	6.50	18.75	478-1379-2-ND	4,000	18.00/M	08055C472KAT2A
			5600pF	±10%	0.71	478-1380-1-ND	2.20	13.00	37.50	478-1380-2-ND	4,000	36.00/M	08055C562KAT2A
			6800pF	±10%	0.71	478-1381-1-ND	2.20	13.00	37.50	478-1381-2-ND	4,000	36.00/M	08055C682KAT2A
			8200pF	±10%	0.71	478-1382-1-ND	2.31	13.65	39.38	478-1382-2-ND	3,000	38.00/M	08055C822KAT2A
			.01µF	±10%	0.71	478-1383-1-ND	1.10	6.50	18.75	478-1383-2-ND	4,000	18.00/M	08055C103KAT2A
			.012µF	±10%	0.94	478-1384-1-ND	1.10	6.50	18.75	478-1384-2-ND	4,000	18.00/M	08055C123KAT2A
			.015µF	±10%	0.94	478-1385-1-ND	2.20	13.00	37.50	478-1385-2-ND	4,000	36.00/M	08055C153KAT2A
			.018µF	±10%	0.94	478-1386-1-ND	2.20	13.00	37.50	478-1386-2-ND	4,000	36.00/M	08055C183KAT2A
			.022µF	±10%	0.94	478-1387-1-ND	1.10	6.50	18.75	478-1387-2-ND	4,000	18.00/M	08055C223KAT2A
			.027µF	±10%	0.94	478-1388-1-ND	1.10	6.50	18.75	478-1388-2-ND	4,000	18.00/M	08055C273KAT2A
			.033µF	±10%	0.94	478-1389-1-ND	2.20	13.00	37.50	478-1389-2-ND	4,000	36.00/M	08055C333KAT2A
			.039µF	±10%	0.94	478-1390-1-ND	1.10	6.50	18.75	478-1390-2-ND	4,000	18.00/M	08055C393KAT2A
			.047µF	±10%	0.94	478-1391-1-ND	1.10	6.50	18.75	478-1391-2-ND	4,000	18.00/M	08055C473KAT2A
			.056µF	±10%	0.94	478-1392-1-ND	1.10	6.50	18.75	478-1392-2-ND	4,000	18.00/M	08055C563KAT2A
			.068µF	±10%	0.94	478-1393-1-ND	1.10	6.50	18.75	478-1393-2-ND	4,000	18.00/M	08055C683KAT2A
			.082µF	±10%	0.94	478-1394-1-ND	1.10	6.50	18.75	478-1394-2-ND	4,000	18.00/M	08055C823KAT2A
			.10µF	±10%	0.94	478-1395-1-ND	1.10	6.50	18.75	478-1395-2-ND	4,000	18.00/M	08055C104KAT2A
			.10µF	±20%	0.94	478-3351-1-ND†	.96	8.36	33.00	478-3351-2-ND†	4,000	37.00/M	08055C104MAT2A
			.10µF	±5%	0.94	478-3352-1-ND†	1.44	12.54	49.50	478-3352-2-ND†	4,000	56.00/M	08055C104JAT2A
			.12µF	±10%	1.27	478-1396-1-ND	2.20	13.00	37.50	478-1396-2-ND	2,000	36.00/M	08055C124KAT2A
		25V	.15µF	±10%	0.94	478-1397-1-ND	2.20	13.00	37.50	478-1397-2-ND	4,000	36.00/M	08053C154KAT2A
			.18µF	±10%	0.94	478-1398-1-ND	2.20	13.00	37.50	478-1398-2-ND	2,000	36.00/M	08053C184KAT2A
			.22µF	±10%	0.94	478-1399-1-ND	2.20	13.00	37.50	478-1399-2-ND	2,000	36.00/M	08053C224KAT2A
		16V	.22µF	±10%	0.94	478-1400-1-ND	1.65	9.75	28.13	478-1400-2-ND	4,000	27.00/M	0805YC224KAT2A
			.27µF	±10%	1.27	478-1401-1-ND	4.40	26.00	75.00	478-1401-2-ND	2,000	72.00/M	0805YC274KAT2A
			.33µF	±10%	1.27	478-1402-1-ND	4.40	26.00	75.00	478-1402-2-ND	2,000	72.00/M	0805YC334KAT2A
			.47µF	±10%	1.27	478-1403-1-ND	4.40	26.00	75.00	478-1403-2-ND	2,000	72.00/M	0805YC474KAT2A
		10V	.68µF	±10%	1.40	478-1404-1-ND	6.60	39.00	112.50	478-1404-2-ND	2,000	108.00/M	0805ZC684KAT2A
			1.0µF	±10%	1.40	478-1405-1-ND	11.00	65.00	187.50	478-1405-2-ND	2,000	180.00/M	0805ZC105KAT2A
	X5R	25V	.33µF	±10%	1.40	478-1406-1-ND	8.69	51.35	148.13	478-1406-2-ND	3,000	142.00/M	08053D334KAT2A
			.47µF	±10%	1.40	478-1407-1-ND	8.69	51.35	148.13	478-1407-2-ND	3,000	142.00/M	08053D474KAT2A
			.68µF	±10%	1.40	478-1408-1-ND	8.69	51.35	148.13	478-1408-2-ND	3,000	142.00/M	08053D684KAT2A
			1.0µF	±10%	1.40	478-1409-1-ND	12.10	71.50	206.25	478-1409-2-ND	3,000	198.00/M	08053D105KAT2A
		16V	.68µF	±10%	1.40	478-1410-1-ND	3.85	22.75	65.63	478-1410-2-ND	3,000	63.00/M	0805YD684KAT2A
			1.0µF	±10%	1.40	478-1411-1-ND	2.75	16.25	46.88	478-1411-2-ND	2,000	45.00/M	0805YD105KAT2A
			2.2µF	±10%	1.40	478-2580-1-ND	9.90	58.50	168.75	478-2580-2-ND	3,000	162.00/M	0805YD225KAT2A
		10V	1.0µF	±10%	1.40	478-1412-1-ND	4.40	26.00	75.00	478-1412-2-ND	2,000	72.00/M	0805ZD105KAT2A
			2.2µF	±10%	1.40	478-1413-1-ND	4.40	26.00	75.00	478-1413-2-ND	3,000	72.00/M	0805ZD225KAT2A
			3.3µF	±10%	1.40	478-1414-1-ND	6.60	39.00	112.50	478-1414-2-ND	3,000	108.00/M	0805ZD335KAT2A
			4.7µF	±10%	1.40	478-1415-1-ND	7.15	42.25	121.88	478-1415-2-ND	3,000	117.00/M	0805ZD475KAT2A
		6.3V	4.7µF	±10%	1.40	478-1416-1-ND	6.05	35.75	103.13	478-1416-2-ND	3,000	99.00/M	08056D475KAT2A
			10µF	±10%	1.40	478-1417-1-ND	11.00	65.00	187.50	478-1417-2-ND	3,000	180.00/M	08056D106KAT2A
	Y5V	50V	.01µF	+80 -20%	0.71	478-1418-1-ND	1.10	6.50	18.75	478-1418-2-ND	4,000	18.00/M	08055G103ZAT2A
			.022µF	+80 -20%	0.71	478-1419-1-ND	1.10	6.50	18.75	478-1419-2-ND	4,000	18.00/M	08055G223ZAT2A
			.047µF	+80 -20%	0.71	478-1420-1-ND	1.10	6.50	18.75	478-1420-2-ND	4,000	18.00/M	08055G473ZAT2A
			.10µF	+80 -20%	0.71	478-1421-1-ND	1.10	6.50	18.75	478-1421-2-ND	4,000	18.00/M	08055G104ZAT2A
			.22µF	+80 -20%	0.94	478-1422-1-ND	1.65	9.75	28.13	478-1422-2-ND	4,000	27.00/M	08055G224ZAT2A
		25V	.10µF	+80 -20%	0.71	478-1423-1-ND	1.10	6.50	18.75	478-1423-2-ND	4,000	18.00/M	08053G104ZAT2A
			.22µF	+80 -20%	0.94	478-1424-1-ND	1.65	9.75	28.13	478-1424-2-ND	4,000	27.00/M	08053G224ZAT2A
			.47µF	+80 -20%	1.40	478-1425-1-ND	2.20	13.00	37.50	478-1425-2-ND	3,000	36.00/M	08053G474ZAT2A
			1.0µF	+80 -20%	1.40	478-1426-1-ND	3.30	19.50	56.25	478-1426-2-ND	3,000	54.00/M	08053G105ZAT2A
		16V	1.0µF	+80 -20%	1.40	478-1427-1-ND	5.50	32.50	93.75	478-1427-2-ND	3,000	90.00/M	0805YG105ZAT2A
			2.2µF	+80 -20%	1.40	478-1428-1-ND	7.15	42.25	121.88	478-1428-2-ND	3,000	117.00/M	0805YG225ZAT2A
		10V	4.7µF	+80 -20%	1.52	478-1429-1-ND	9.35	55.25	159.38	478-1429-2-ND	3,000	153.00/M	0805ZG475ZAT2A
1206	C0G (NP0)	1000V	47pF	±10%	1.52	478-2949-1-ND†	16.50	97.50	281.25	478-2949-2-ND†	2,000	270.00/M	1206AA470KAT1A
			470pF	±5%	1.52	478-2950-1-ND†	19.80	117.00	337.50	478-2950-2-ND†	2,000	324.00/M	1206AA471JAT1A
		200V	100pF	±5%	0.94	478-1430-1-ND	4.13	24.38	70.31	478-1430-2-ND	4,000	68.00/M	12062A101JAT2A
			150pF	±5%	0.94	478-1431-1-ND	4.51	26.65	76.88	478-1431-2-ND	4,000	74.00/M	12062A151JAT2A
			220pF	±5%	0.94	478-1432-1-ND	4.51	26.65	76.88	478-1432-2-ND	4,000	74.00/M	12062A221JAT2A
			330pF	±5%	0.94	478-1433-1-ND	4.51	26.65	76.88	478-1433-2-ND	4,000	74.00/M	12062A331JAT2A
			470pF	±5%	0.94	478-1434-1-ND	8.25	48.75	140.63	478-1434-2-ND	4,000	135.00/M	12062A471JAT2A
			680pF	±5%	0.94	478-1435-1-ND	8.25	48.75	140.63	478-1435-2-ND	4,000	135.00/M	12062A681JAT2A
			1000pF	±5%	1.78	478-1436-1-ND	8.25	48.75	140.63	478-1436-2-ND	2,000	135.00/M	12062A102JAT2A
			1500pF	±5%	1.78	478-1437-1-ND	5.01	29.58	85.31	478-1437-2-ND	2,000	82.00/M	12062A152JAT2A
		100V	10pF	±5%	0.94	478-1438-1-ND	7.70	45.50	131.25	478-1438-2-ND	4,000	126.00/M	12061A100JAT2A
			15pF	±5%	0.94	478-1439-1-ND	7.70	45.50	131.25	478-1439-2-ND	4,000	126.00/M	12061A150JAT2A
			22pF	±5%	0.94	478-1440-1-ND	7.70	45.50	131.25	478-1440-2-ND	4,000	126.00/M	12061A220JAT2A
			33pF	±5%	0.94	478-1441-1-ND	7.70	45.50	131.25	478-1441-2-ND	4,000	126.00/M	12061A330JAT2A
			47pF	±5%	0.94	478-1442-1-ND	7.70	45.50	131.25	478-1442-2-ND	4,000	126.00/M	12061A470JAT2A
			68pF	±5%	0.94	478-1443-1-ND	3.52	20.80	60.00	478-1443-2-ND	4,000	58.00/M	12061A680JAT2A
			100pF	±5%	0.94	478-1444-1-ND	7.70	45.50	131.25	478-1444-2-ND	4,000	126.00/M	12061A101JAT2A
			150pF	±5%	0.94	478-1445-1-ND	8.25	48.75	140.63	478-1445-2-ND	4,000	135.00/M	12061A151JAT2A
			220pF	±5%	0.94	478-1446-1-ND	8.25	48.75	140.63	478-1446-2-ND	4,000	135.00/M	12061A221JAT2A
			330pF	±5%	0.94	478-1447-1-ND	8.80	52.00	150.00	478-1447-2-ND	4,000	144.00/M	12061A331JAT2A
			470pF	±5%	0.94	478-1448-1-ND	8.80	52.00	150.00	478-1448-2-ND	4,000	144.00/M	12061A471JAT2A
			680pF	±5%	0.94	478-1449-1-ND	5.13	30.29	87.38	478-1449-2-ND	4,000	84.00/M	12061A681JAT2A
			1000pF	±5%	0.94	478-1450-1-ND	8.80	52.00	150.00	478-1450-2-ND	4,000	144.00/M	12061A102JAT2A
			1500pF	±5%	1.27	478-1451-1-ND	6.93	40.95	118.13	478-1451-2-ND	2,000	113.00/M	12061A152JAT2A
			2200pF	±5%	1.52	478-1452-1-ND	6.93	40.95	118.13	478-1452-2-ND	2,000	113.00/M	12061A222JAT2A
			3300pF	±5%	1.52	478-1453-1-ND	6.93	40.95	118.13	478-1453-2-ND	2,000	113.00/M	12061A332JAT2A
		50V	.5pF	±.25pF	0.94	478-1455-1-ND	3.52	20.80	60.00	478-1455-2-ND	4,000	58.00/M	12065A0R5CAT2A

† *RoHS Compliant*

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AVX Part No.
							10	100	500		Size	Pricing	
1206	C0G (NP0)	50V	1.0pF	±.25pF	0.94	478-1456-1-ND	3.52	20.80	60.00	478-1456-2-ND	4,000	58.00/M	12065A1R0CAT2A
			1.2pF	±.25pF	0.94	478-1457-1-ND	3.52	20.80	60.00	478-1457-2-ND	4,000	58.00/M	12065A1R2CAT2A
			1.5pF	±.25pF	0.94	478-1458-1-ND	3.52	20.80	60.00	478-1458-2-ND	4,000	58.00/M	12065A1R5CAT2A
			1.8pF	±.25pF	0.94	478-1459-1-ND	3.52	20.80	60.00	478-1459-2-ND	4,000	58.00/M	12065A1R8CAT2A
			2.2pF	±.25pF	0.94	478-1460-1-ND	3.52	20.80	60.00	478-1460-2-ND	4,000	58.00/M	12065A2R2CAT2A
			2.7pF	±.25pF	0.94	478-1461-1-ND	3.52	20.80	60.00	478-1461-2-ND	4,000	58.00/M	12065A2R7CAT2A
			3.3pF	±.25pF	0.94	478-1462-1-ND	3.52	20.80	60.00	478-1462-2-ND	4,000	58.00/M	12065A3R3CAT2A
			3.9pF	±.25pF	0.94	478-1463-1-ND	3.52	20.80	60.00	478-1463-2-ND	4,000	58.00/M	12065A3R9CAT2A
			4.7pF	±.25pF	0.94	478-1464-1-ND	3.52	20.80	60.00	478-1464-2-ND	4,000	58.00/M	12065A4R7CAT2A
			5.6pF	±.25pF	0.94	478-1465-1-ND	3.52	20.80	60.00	478-1465-2-ND	4,000	58.00/M	12065A5R6CAT2A
			6.8pF	±.25pF	0.94	478-1466-1-ND	3.52	20.80	60.00	478-1466-2-ND	4,000	58.00/M	12065A6R8CAT2A
			8.2pF	±.25pF	0.94	478-1467-1-ND	3.52	20.80	60.00	478-1467-2-ND	4,000	58.00/M	12065A8R2CAT2A
			10pF	±5%	0.94	478-1468-1-ND	4.18	24.70	71.25	478-1468-2-ND	4,000	68.00/M	12065A100JAT2A
			12pF	±5%	0.94	478-1469-1-ND	4.18	24.70	71.25	478-1469-2-ND	4,000	68.00/M	12065A120JAT2A
			15pF	±5%	0.94	478-1470-1-ND	4.18	24.70	71.25	478-1470-2-ND	4,000	68.00/M	12065A150JAT2A
			18pF	±5%	0.94	478-1471-1-ND	4.18	24.70	71.25	478-1471-2-ND	4,000	68.00/M	12065A180JAT2A
			22pF	±5%	0.94	478-1472-1-ND	3.70	21.84	63.00	478-1472-2-ND	4,000	60.00/M	12065A220JAT2A
			27pF	±5%	0.94	478-1473-1-ND	4.18	24.70	71.25	478-1473-2-ND	4,000	68.00/M	12065A270JAT2A
			33pF	±5%	0.94	478-1474-1-ND	4.18	24.70	71.25	478-1474-2-ND	4,000	68.00/M	12065A330JAT2A
			39pF	±5%	0.94	478-1475-1-ND	4.18	24.70	71.25	478-1475-2-ND	4,000	68.00/M	12065A390JAT2A
			47pF	±5%	0.94	478-1476-1-ND	4.18	24.70	71.25	478-1476-2-ND	4,000	68.00/M	12065A470JAT2A
			56pF	±5%	0.94	478-1477-1-ND	4.18	24.70	71.25	478-1477-2-ND	4,000	68.00/M	12065A560JAT2A
			68pF	±5%	0.94	478-1478-1-ND	4.18	24.70	71.25	478-1478-2-ND	4,000	68.00/M	12065A680JAT2A
			82pF	±5%	0.94	478-1479-1-ND	4.18	24.70	71.25	478-1479-2-ND	4,000	68.00/M	12065A820JAT2A
			100pF	±5%	0.94	478-1480-1-ND	4.18	24.70	71.25	478-1480-2-ND	4,000	68.00/M	12065A101JAT2A
			120pF	±5%	0.94	478-1481-1-ND	4.18	24.70	71.25	478-1481-2-ND	4,000	68.00/M	12065A121JAT2A
			150pF	±5%	0.94	478-1482-1-ND	5.17	30.55	88.13	478-1482-2-ND	4,000	85.00/M	12065A151JAT2A
			180pF	±5%	0.94	478-1483-1-ND	5.13	30.29	87.38	478-1483-2-ND	2,500	84.00/M	12065A181JAT2A
			220pF	±5%	0.94	478-1484-1-ND	5.17	30.55	88.13	478-1484-2-ND	4,000	85.00/M	12065A221JAT2A
			270pF	±5%	0.94	478-1485-1-ND	5.13	30.29	87.38	478-1485-2-ND	4,000	84.00/M	12065A271JAT2A
			330pF	±5%	0.94	478-1486-1-ND	5.17	30.55	88.13	478-1486-2-ND	4,000	85.00/M	12065A331JAT2A
			390pF	±5%	0.94	478-1487-1-ND	5.13	30.29	87.38	478-1487-2-ND	4,000	84.00/M	12065A391JAT2A
			470pF	±5%	0.94	478-1488-1-ND	5.13	30.29	87.38	478-1488-2-ND	4,000	84.00/M	12065A471JAT2A
			560pF	±5%	0.94	478-1489-1-ND	5.13	30.29	87.38	478-1489-2-ND	4,000	84.00/M	12065A561JAT2A
			680pF	±5%	0.94	478-1490-1-ND	5.13	30.29	87.38	478-1490-2-ND	4,000	84.00/M	12065A681JAT2A
			820pF	±5%	0.94	478-1491-1-ND	5.13	30.29	87.38	478-1491-2-ND	4,000	84.00/M	12065A821JAT2A
			1000pF	±5%	0.94	478-1492-1-ND	5.13	30.29	87.38	478-1492-2-ND	4,000	84.00/M	12065A102JAT2A
			1200pF	±5%	0.94	478-1493-1-ND	5.49	32.44	93.56	478-1493-2-ND	4,000	90.00/M	12065A122JAT2A
			1500pF	±5%	0.94	478-1494-1-ND	5.49	32.44	93.56	478-1494-2-ND	4,000	90.00/M	12065A152JAT2A
			1800pF	±5%	1.27	478-1495-1-ND	6.60	39.00	112.50	478-1495-2-ND	2,000	108.00/M	12065A182JAT2A
			2200pF	±5%	1.27	478-1496-1-ND	5.86	34.65	99.94	478-1496-2-ND	2,000	96.00/M	12065A222JAT2A
			2700pF	±5%	1.27	478-1497-1-ND	5.86	34.65	99.94	478-1497-2-ND	2,000	96.00/M	12065A272JAT2A
			3300pF	±5%	1.27	478-1498-1-ND	5.86	34.65	99.94	478-1498-2-ND	2,000	96.00/M	12065A332JAT2A
			3900pF	±5%	1.27	478-1499-1-ND	5.86	34.65	99.94	478-1499-2-ND	2,000	96.00/M	12065A392JAT2A
			5600pF	±5%	1.27	478-1501-1-ND	6.93	40.95	118.13	478-1501-2-ND	2,000	113.00/M	12065A562JAT2A
		25V	8200pF	±5%	1.27	478-1503-1-ND	9.35	55.25	159.38	—	—	—	12063A822JAT2A
	X7R	2000V	470pF	±10%	1.52	478-2957-1-ND†	16.50	97.50	281.25	478-2957-2-ND†	2,000	270.00/M	1206GC471KAT1A
			1000pF	±10%	1.52	478-2956-1-ND†	16.50	97.50	281.25	478-2956-2-ND†	2,000	270.00/M	1206GC102KAT1A
		1000V	100pF	±10%	1.52	478-2951-1-ND†	16.50	97.50	281.25	478-2951-2-ND†	2,000	270.00/M	1206AC101KAT1A
			1000pF	±10%	1.52	478-2952-1-ND†	16.50	97.50	281.25	478-2952-2-ND†	2,000	270.00/M	1206AC102KAT1A
			2200pF	±10%	1.52	478-2953-1-ND†	16.50	97.50	281.25	478-2953-2-ND†	2,000	270.00/M	1206AC222KAT1A
			4700pF	±10%	1.52	478-2954-1-ND†	16.50	97.50	281.25	478-2954-2-ND†	2,000	270.00/M	1206AC472KAT1A
		600V	10000pF	±10%	1.52	478-2955-1-ND†	16.50	97.50	281.25	478-2955-2-ND†	2,000	270.00/M	1206CC103KAT1A
		200V	1000pF	±10%	0.94	478-1505-1-ND	4.40	26.00	75.00	478-1505-2-ND	4,000	72.00/M	12062C102KAT2A
			1500pF	±10%	0.94	478-1506-1-ND	4.40	26.00	75.00	478-1506-2-ND	4,000	72.00/M	12062C152KAT2A
			2200pF	±10%	0.94	478-1507-1-ND	4.40	26.00	75.00	478-1507-2-ND	4,000	72.00/M	12062C222KAT2A
			3300pF	±10%	0.94	478-1508-1-ND	4.40	26.00	75.00	478-1508-2-ND	4,000	72.00/M	12062C332KAT2A
			4700pF	±10%	0.94	478-1509-1-ND	4.40	26.00	75.00	478-1509-2-ND	4,000	72.00/M	12062C472KAT2A
			6800pF	±10%	0.94	478-1510-1-ND	4.40	26.00	75.00	478-1510-2-ND	4,000	72.00/M	12062C682KAT2A
			.01µF	±10%	0.94	478-1511-1-ND	4.40	26.00	75.00	478-1511-2-ND	4,000	72.00/M	12062C103KAT2A
			.015µF	±10%	1.27	478-1512-1-ND	8.25	48.75	140.63	478-1512-2-ND	2,000	135.00/M	12062C153KAT2A
			.022µF	±10%	1.27	478-1513-1-ND	4.62	27.30	78.75	478-1513-2-ND	2,000	76.00/M	12062C223KAT2A
			.033µF	±10%	1.27	478-1514-1-ND	4.62	27.30	78.75	478-1514-2-ND	2,000	76.00/M	12062C333KAT2A
			.047µF	±10%	1.27	478-1515-1-ND	4.62	27.30	78.75	478-1515-2-ND	2,000	76.00/M	12062C473KAT2A
			.068µF	±10%	1.52	478-1516-1-ND	13.20	78.00	225.00	478-1516-2-ND	2,000	216.00/M	12062C683KAT2A
		100V	1000pF	±10%	0.94	478-1517-1-ND	3.19	18.85	54.38	478-1517-2-ND	4,000	52.00/M	12061C102KAT2A
			1500pF	±10%	0.94	478-1518-1-ND	3.19	18.85	54.38	478-1518-2-ND	4,000	52.00/M	12061C152KAT2A
			2200pF	±10%	0.94	478-1519-1-ND	3.19	18.85	54.38	478-1519-2-ND	4,000	52.00/M	12061C222KAT2A
			3300pF	±10%	0.94	478-1520-1-ND	3.19	18.85	54.38	478-1520-2-ND	4,000	52.00/M	12061C332KAT2A
			4700pF	±10%	0.94	478-1521-1-ND	3.19	18.85	54.38	478-1521-2-ND	4,000	52.00/M	12061C472KAT2A
			6800pF	±10%	0.94	478-1522-1-ND	3.19	18.85	54.38	478-1522-2-ND	4,000	52.00/M	12061C682KAT2A
			.01µF	±10%	0.94	478-1523-1-ND	3.19	18.85	54.38	478-1523-2-ND	4,000	52.00/M	12061C103KAT2A
			.015µF	±10%	0.94	478-1524-1-ND	3.30	19.50	56.25	478-1524-2-ND	4,000	54.00/M	12061C153KAT2A
			.022µF	±10%	0.94	478-1525-1-ND	3.30	19.50	56.25	478-1525-2-ND	4,000	54.00/M	12061C223KAT2A
			.033µF	±10%	0.94	478-1526-1-ND	3.30	19.50	56.25	478-1526-2-ND	4,000	54.00/M	12061C333KAT2A
			.047µF	±10%	0.94	478-1527-1-ND	8.25	48.75	140.63	478-1527-2-ND	4,000	135.00/M	12061C473KAT2A
			.068µF	±10%	0.94	478-1528-1-ND	3.52	20.80	60.00	478-1528-2-ND	4,000	58.00/M	12061C683KAT2A
			.10µF	±10%	1.27	478-1529-1-ND	3.85	22.75	65.63	478-1529-2-ND	2,000	63.00/M	12061C104KAT2A
		50V	1000pF	±10%	0.94	478-1530-1-ND	3.03	17.88	51.56	478-1530-2-ND	4,000	50.00/M	12065C102KAT2A
			1200pF	±10%	0.94	478-1531-1-ND	3.03	17.88	51.56	478-1531-2-ND	4,000	50.00/M	12065C122KAT2A
			1500pF	±10%	0.94	478-1532-1-ND	3.03	17.88	51.56	478-1532-2-ND	4,000	50.00/M	12065C152KAT2A
			1800pF	±10%	0.94	478-1533-1-ND	3.03	17.88	51.56	478-1533-2-ND	4,000	50.00/M	12065C182KAT2A
			2200pF	±10%	0.94	478-1534-1-ND	3.03	17.88	51.56	478-1534-2-ND	4,000	50.00/M	12065C222KAT2A
			2700pF	±10%	0.94	478-1535-1-ND	3.03	17.88	51.56	478-1535-2-ND	4,000	50.00/M	12065C272KAT2A
			3300pF	±10%	0.94	478-1536-1-ND	3.03	17.88	51.56	478-1536-2-ND	4,000	50.00/M	12065C332KAT2A
			3900pF	±10%	0.94	478-1537-1-ND	3.03	17.88	51.56	478-1537-2-ND	4,000	50.00/M	12065C392KAT2A
			4700pF	±10%	0.94	478-1538-1-ND	3.74	22.10	63.75	478-1538-2-ND	4,000	61.00/M	12065C472KAT2A
			5600pF	±10%	0.94	478-1539-1-ND	3.03	17.88	51.56	478-1539-2-ND	4,000	50.00/M	12065C562KAT2A
			6800pF	±10%	0.94	478-1540-1-ND	3.03	17.88	51.56	478-1540-2-ND	4,000	50.00/M	12065C682KAT2A
			8200pF	±10%	0.94	478-1541-1-ND	3.03	17.88	51.56	478-1541-2-ND	4,000	50.00/M	12065C822KAT2A
			.01µF	±10%	0.94	478-1542-1-ND	3.03	17.88	51.56	478-1542-2-ND	4,000	50.00/M	12065C103KAT2A
			.012µF	±10%	0.94	478-1543-1-ND	3.19	18.85	54.38	478-1543-2-ND	4,000	52.00/M	12065C123KAT2A

† RoHS Compliant

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AVX Part No.
							10	100	500		Size	Pricing	
1206	X7R	50V	.015µF	±10%	0.94	478-1544-1-ND	3.19	18.85	54.38	478-1544-2-ND	4,000	52.00/M	12065C153KAT2A
			.018µF	±10%	0.94	478-1545-1-ND	3.19	18.85	54.38	478-1545-2-ND	4,000	52.00/M	12065C183KAT2A
			.022µF	±10%	0.94	478-1546-1-ND	3.19	18.85	54.38	478-1546-2-ND	4,000	52.00/M	12065C223KAT2A
			.027µF	±10%	0.94	478-1547-1-ND	3.19	18.85	54.38	478-1547-2-ND	4,000	52.00/M	12065C273KAT2A
			.033µF	±10%	0.94	478-1548-1-ND	3.19	18.85	54.38	478-1548-2-ND	4,000	52.00/M	12065C333KAT2A
			.039µF	±10%	0.94	478-1549-1-ND	3.19	18.85	54.38	478-1549-2-ND	4,000	52.00/M	12065C393KAT2A
			.047µF	±10%	0.94	478-1550-1-ND	3.19	18.85	54.38	478-1550-2-ND	4,000	52.00/M	12065C473KAT2A
			.056µF	±10%	0.94	478-1551-1-ND	3.52	20.80	60.00	478-1551-2-ND	4,000	58.00/M	12065C563KAT2A
			.068µF	±10%	0.94	478-1553-1-ND	3.52	20.80	60.00	478-1553-2-ND	4,000	58.00/M	12065C683KAT2A
			.082µF	±10%	0.94	478-1555-1-ND	3.52	20.80	60.00	478-1555-2-ND	4,000	58.00/M	12065C823KAT2A
			.10µF	±10%	0.94	478-1556-1-ND	2.20	13.00	37.50	478-1556-2-ND	4,000	36.00/M	12065C104KAT2A
			.10µF	±20%	0.94	478-3353-1-ND†	1.44	12.54	49.50	478-3353-2-ND†	4,000	56.00/M	12065C104MAT2A
			.12µF	±10%	0.94	478-1557-1-ND	3.30	19.50	56.25	478-1557-2-ND	4,000	54.00/M	12065C124KAT2A
			.15µF	±10%	0.94	478-1558-1-ND	3.30	19.50	56.25	478-1558-2-ND	4,000	54.00/M	12065C154KAT2A
			.18µF	±10%	0.94	478-1559-1-ND	3.30	19.50	56.25	478-1559-2-ND	4,000	54.00/M	12065C184KAT2A
			.22µF	±10%	0.94	478-1560-1-ND	3.30	19.50	56.25	478-1560-2-ND	3,000	54.00/M	12065C224KAT2A
			.27µF	±10%	1.27	478-1561-1-ND	4.40	26.00	75.00	478-1561-2-ND	2,000	72.00/M	12065C274KAT2A
			.33µF	±10%	1.27	478-1562-1-ND	6.60	39.00	112.50	478-1562-2-ND	2,000	108.00/M	12065C334KAT2A
		25V	.47µF	±10%	1.27	478-1563-1-ND	5.50	32.50	93.75	478-1563-2-ND	2,000	90.00/M	12063C474KAT2A
			.56µF	±10%	1.78	478-1564-1-ND	6.60	39.00	112.50	478-1564-2-ND	2,000	108.00/M	12063C564KAT2A
			.68µF	±10%	1.78	478-1565-1-ND	6.60	39.00	112.50	478-1565-2-ND	2,500	108.00/M	12063C684KAT2A
			.82µF	±10%	1.78	478-1566-1-ND	6.60	39.00	112.50	478-1566-2-ND	2,500	108.00/M	12063C824KAT2A
			1.0µF	±10%	1.78	478-1567-1-ND	4.40	26.00	75.00	478-1567-2-ND	2,500	72.00/M	12063C105KAT2A
		16V	1.0µF	±10%	1.40	478-2576-1-ND	10.89	64.35	185.63	478-2576-2-ND	2,000	178.00/M	1206YC105KAT2A
		10V	2.2µF	±10%	1.78	478-1568-1-ND	13.20	78.00	225.00	478-1568-2-ND	2,000	216.00/M	1206ZC225KAT2A
	X5R	25V	2.2µF	±10%	1.78	478-1569-1-ND	8.80	52.00	150.00	478-1569-2-ND	2,500	144.00/M	12063D225KAT2A
			4.7µF	±10%	1.78	478-1570-1-ND	11.00	65.00	187.50	478-1570-2-ND	2,500	180.00/M	12063D475KAT2A
			4.7µF	±20%	2.79	478-2577-1-ND	11.00	65.00	187.50	478-2577-2-ND	2,500	180.00/M	12063D475MAT2A
		16V	2.2µF	±10%	1.78	478-1571-1-ND	9.90	58.50	168.75	478-1571-2-ND	2,500	162.00/M	1206YD225KAT2A
			4.7µF	±10%	1.78	478-1572-1-ND	20.35	120.25	346.88	478-1572-2-ND	4,000	333.00/M	1206YD475KAT2A
			10µF	±10%	1.78	478-1573-1-ND	20.90	123.50	356.25	478-1573-2-ND	2,500	342.00/M	1206YD106KAT2A
		10V	4.7µF	±10%	1.78	478-1574-1-ND	9.90	58.50	168.75	478-1574-2-ND	2,000	162.00/M	1206ZD475KAT2A
			10µF	±10%	1.78	478-1575-1-ND	12.10	71.50	206.25	478-1575-2-ND	2,500	198.00/M	1206ZD106KAT2A
		6.3V	22µF	±10%	1.78	478-1576-1-ND	24.75	146.25	421.88	478-1576-2-ND	2,500	405.00/M	12066D226KAT2A
			10µF	±10%	1.78	478-2578-1-ND	14.30	84.50	243.75	478-2578-2-ND	2,500	234.00/M	12066D106KAT2A
			10µF	±20%	1.78	478-2579-1-ND	14.30	84.50	243.75	478-2579-2-ND	2,500	234.00/M	12066D106MAT2A
	Y5V	50V	.10µF	+80 -20%	0.94	478-1577-1-ND	3.30	19.50	56.25	478-1577-2-ND	4,000	54.00/M	12065G104ZAT2A
			.22µF	+80 -20%	0.94	478-1578-1-ND	6.05	35.75	103.13	478-1578-2-ND	4,000	99.00/M	12065G224ZAT2A
			.47µF	+80 -20%	0.94	478-1579-1-ND	4.95	29.25	84.38	478-1579-2-ND	3,000	81.00/M	12065G474ZAT2A
			1.0µF	+80 -20%	0.94	478-1580-1-ND	3.85	22.75	65.63	478-1580-2-ND	4,000	63.00/M	12065G105ZAT2A
		25V	2.2µF	+80 -20%	1.27	478-1581-1-ND	5.50	32.50	93.75	478-1581-2-ND	3,000	90.00/M	12063G225ZAT2A
		16V	4.7µF	+80 -20%	1.52	478-1582-1-ND	8.80	52.00	150.00	478-1582-2-ND	3,000	144.00/M	1206YG475ZAT2A
		10V	10µF	+80 -20%	1.78	478-1583-1-ND	11.00	65.00	187.50	478-1583-2-ND	2,500	180.00/M	1206ZG106ZAT2A
1210	C0G (NP0)	200V	680pF	±5%	0.94	478-1584-1-ND	9.35	55.25	159.38	478-1584-2-ND	4,000	153.00/M	12102A681JAT2A
			1000pF	±5%	0.94	478-1585-1-ND	9.35	55.25	159.38	478-1585-2-ND	4,000	153.00/M	12102A102JAT2A
			1500pF	±5%	1.27	478-1586-1-ND	9.90	58.50	168.75	478-1586-2-ND	2,000	162.00/M	12102A152JAT2A
			2200pF	±5%	1.78	478-1587-1-ND	13.75	81.25	234.38	478-1587-2-ND	2,000	225.00/M	12102A222JAT2A
		100V	680pF	±5%	0.94	478-1588-1-ND	4.95	29.25	84.38	478-1588-2-ND	4,000	81.00/M	12101A681JAT2A
			1000pF	±5%	0.94	478-1589-1-ND	4.95	29.25	84.38	478-1589-2-ND	4,000	81.00/M	12101A102JAT2A
			1500pF	±5%	0.94	478-1590-1-ND	7.15	42.25	121.88	478-1590-2-ND	4,000	117.00/M	12101A152JAT2A
			2200pF	±5%	1.27	478-1591-1-ND	7.15	42.25	121.88	478-1591-2-ND	4,000	117.00/M	12101A222JAT2A
			3300pF	±5%	1.27	478-1592-1-ND	7.15	42.25	121.88	478-1592-2-ND	4,000	117.00/M	12101A332JAT2A
		50V	680pF	±5%	0.94	478-1594-1-ND	4.95	29.25	84.38	478-1594-2-ND	4,000	81.00/M	12105A681JAT2A
			1000pF	±5%	0.94	478-1595-1-ND	4.95	29.25	84.38	478-1595-2-ND	4,000	81.00/M	12105A102JAT2A
			1500pF	±5%	0.94	478-1596-1-ND	7.15	42.25	121.88	478-1596-2-ND	4,000	117.00/M	12105A152JAT2A
			2200pF	±5%	0.94	478-1597-1-ND	7.15	42.25	121.88	478-1597-2-ND	4,000	117.00/M	12105A222JAT2A
			3300pF	±5%	0.94	478-1598-1-ND	7.15	42.25	121.88	478-1598-2-ND	4,000	117.00/M	12105A332JAT2A
			6800pF	±5%	0.94	478-1600-1-ND	28.05	165.75	478.13	—	—	—	12105A682JAT2A
	X7R	2000V	820pF	±10%	1.70	478-2961-1-ND†	22.00	130.00	375.00	478-2961-2-ND†	2,000	360.00/M	1210GC821KAT1A
			1000pF	±10%	1.70	478-2960-1-ND†	22.00	130.00	375.00	478-2960-2-ND†	2,000	360.00/M	1210GC102KAT1A
		1500V	2700pF	±20%	1.70	478-2962-1-ND†	20.90	123.50	356.25	478-2962-2-ND†	2,000	342.00/M	1210SC272MAT1A
		1000V	10000pF	±10%	1.70	478-2958-1-ND†	22.00	130.00	375.00	478-2958-2-ND†	2,000	360.00/M	1210AC103KAT1A
		600V	22000pF	±10%	1.70	478-2959-1-ND†	22.00	130.00	375.00	478-2959-2-ND†	2,000	360.00/M	1210CC223KAT1A
		100V	1000pF	±10%	0.94	478-1602-1-ND	5.50	32.50	93.75	478-1602-2-ND	4,000	90.00/M	12101C102KAT2A
			1500pF	±10%	0.94	478-1603-1-ND	4.95	29.25	84.38	478-1603-2-ND	4,000	81.00/M	12101C152KAT2A
			2200pF	±10%	0.94	478-1604-1-ND	5.50	32.50	93.75	478-1604-2-ND	4,000	90.00/M	12101C222KAT2A
			3300pF	±10%	0.94	478-1605-1-ND	5.50	32.50	93.75	478-1605-2-ND	4,000	90.00/M	12101C332KAT2A
			4700pF	±10%	0.94	478-1606-1-ND	5.50	32.50	93.75	478-1606-2-ND	4,000	90.00/M	12101C472KAT2A
			6800pF	±10%	0.94	478-1607-1-ND	5.50	32.50	93.75	478-1607-2-ND	4,000	90.00/M	12101C682KAT2A
			.01µF	±10%	0.94	478-1608-1-ND	5.50	32.50	93.75	478-1608-2-ND	4,000	90.00/M	12101C103KAT2A
			.015µF	±10%	0.94	478-1609-1-ND	5.50	32.50	93.75	478-1609-2-ND	4,000	90.00/M	12101C153KAT2A
			.022µF	±10%	0.94	478-1610-1-ND	5.50	32.50	93.75	478-1610-2-ND	4,000	90.00/M	12101C223KAT2A
			.033µF	±10%	0.94	478-1611-1-ND	5.50	32.50	93.75	478-1611-2-ND	4,000	90.00/M	12101C333KAT2A
			.047µF	±10%	0.94	478-1612-1-ND	5.50	32.50	93.75	478-1612-2-ND	4,000	90.00/M	12101C473KAT2A
			.068µF	±10%	0.94	478-1613-1-ND	5.50	32.50	93.75	478-1613-2-ND	4,000	90.00/M	12101C683KAT2A
			.10µF	±10%	0.94	478-1614-1-ND	5.50	32.50	93.75	478-1614-2-ND	4,000	90.00/M	12101C104KAT2A
			.15µF	±10%	1.27	478-1615-1-ND	6.82	40.30	116.25	478-1615-2-ND	2,000	112.00/M	12101C154KAT2A
			.22µF	±10%	1.52	478-1616-1-ND	7.70	45.50	131.25	478-1616-2-ND	2,000	126.00/M	12101C224KAT2A
			.47µF	±10%	2.79	478-2568-1-ND	7.70	45.50	131.25	478-2568-2-ND	1,000	126.00	12101C474KAT2A
			.68µF	±10%	2.79	478-2569-1-ND	10.45	61.75	178.13	478-2569-2-ND	2,000	171.00/M	12101C684KAT2A
			1.0µF	±10%	2.79	478-2570-1-ND	14.30	84.50	243.75	478-2570-2-ND	1,000	234.00	12101C105KAT2A
			1.0µF	±20%	2.79	478-2571-1-ND	14.30	84.50	243.75	478-2571-2-ND	1,000	234.00	12101C105MAT2A
		50V	.10µF	±10%	0.94	478-1617-1-ND	8.80	52.00	150.00	478-1617-2-ND	4,000	144.00/M	12105C104KAT2A
			.15µF	±10%	0.94	478-1618-1-ND	6.82	40.30	116.25	478-1618-2-ND	4,000	112.00/M	12105C154KAT2A
			.22µF	±10%	0.94	478-1619-1-ND	6.82	40.30	116.25	478-1619-2-ND	4,000	112.00/M	12105C224KAT2A
			.33µF	±10%	0.94	478-1620-1-ND	12.10	71.50	206.25	478-1620-2-ND	4,000	198.00/M	12105C334KAT2A
			.47µF	±10%	1.27	478-1621-1-ND	12.10	71.50	206.25	478-1621-2-ND	2,000	198.00/M	12105C474KAT2A
			1.0µF	±10%	2.29	478-1622-1-ND	19.25	113.75	328.13	478-1622-2-ND	2,000	315.00/M	12105C105KAT2A
		25V	2.2µF	±10%	2.29	478-1623-1-ND	21.45	126.75	365.63	478-1623-2-ND	2,000	351.00/M	12103C225KAT2A
		16V	4.7µF	±10%	2.79	478-1624-1-ND	23.65	139.75	403.13	478-1624-2-ND	1,000	387.00	1210YC475KAT2A

† RoHS Compliant

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		AVX Part No.
							10	100	500		Size	Pricing	
1210	X5R	10V	10µF	±10%	2.79	478-1625-1-ND	29.15	172.25	496.88	478-1625-2-ND	1,000	477.00	1210ZC106KAT2A
		25V	4.7µF	±10%	2.79	478-1626-1-ND	18.15	107.25	309.38	478-1626-2-ND	1,000	297.00	12103D475KAT2A
			10µF	±10%	2.29	478-1627-1-ND	25.30	149.50	431.25	478-1627-2-ND	2,000	414.00/M	12103D106KAT2A
		16V	4.7µF	±10%	1.78	478-1628-1-ND	17.60	104.00	300.00	478-1628-2-ND	2,500	288.00/M	1210YD475KAT2A
			10µF	±10%	2.29	478-1629-1-ND	26.40	156.00	450.00	478-1629-2-ND	2,000	432.00/M	1210YD106KAT2A
			10µF	±20%	2.79	478-2572-1-ND	29.70	175.50	506.25	478-2572-2-ND	2,000	486.00/M	1210YD106MAT2A
			22µF	±10%	2.79	478-1630-1-ND	46.75	276.25	796.88	478-1630-2-ND	1,000	765.00	1210YD226KAT2A
		6.3V	22µF	±20%	2.79	478-2573-1-ND	41.80	247.00	712.50	478-2573-2-ND	1,000	684.00	12106D226MAT2A
			47µF	±20%	2.79	478-2574-1-ND	78.10	461.50	1331.25	478-2574-2-ND	1,000	1278.00	12106D476MAT2A
			100µF	±20%	2.79	478-2575-1-ND	78.10	461.50	1331.25	478-2575-2-ND	1,000	1278.00	12106D107MAT2A
		10V	10µF	±10%	2.29	478-1631-1-ND	22.55	133.25	384.38	478-1631-2-ND	2,000	369.00/M	1210ZD106KAT2A
			22µF	±10%	2.79	478-1632-1-ND	35.20	208.00	600.00	478-1632-2-ND	1,000	576.00	1210ZD226KAT2A
		6.3V	47µF	±10%	2.79	478-1633-1-ND	78.10	461.50	1331.25	478-1633-2-ND	1,000	1278.00	12106D476KAT2A
	Y5V	16V	10µF	+80 -20%	1.78	478-1634-1-ND	29.70	175.50	506.25	478-1634-2-ND	2,500	486.00/M	1210YG106ZAT2A
		10V	22µF	+80 -20%	2.29	478-1635-1-ND	43.45	256.75	740.63	478-1635-2-ND	2,000	711.00/M	1210ZG226ZAT2A
1808	COG (NP0)	3000V	27pF	±10%	2.03	478-2978-1-ND†	33.00	195.00	562.50	478-2978-2-ND†	2,000	540.00/M	1808HA270KAT1A
			33pF	±10%	2.03	478-2979-1-ND†	33.00	195.00	562.50	478-2979-2-ND†	2,000	540.00/M	1808HA330KAT1A
			82pF	±10%	2.03	478-2980-1-ND†	33.00	195.00	562.50	478-2980-2-ND†	2,000	540.00/M	1808HA820KAT1A
		2000V	220pF	±5%	2.03	478-2973-1-ND†	39.60	234.00	675.00	478-2973-2-ND†	2,000	648.00/M	1808GA221JAT1A
	X7R	3000V	1000pF	±10%	2.03	478-2981-1-ND†	33.00	195.00	562.50	478-2981-2-ND†	2,000	540.00/M	1808HC102KAT1A
		2500V	1000pF	±10%	2.03	478-2983-1-ND†	33.00	195.00	562.50	478-2983-2-ND†	2,000	540.00/M	1808WC102KAT1A
			1200pF	±10%	2.03	478-2984-1-ND†	33.00	195.00	562.50	478-2984-2-ND†	2,000	540.00/M	1808WC122KAT1A
		2000V	330pF	±20%	2.03	478-2977-1-ND†	31.35	185.25	534.38	478-2977-2-ND†	2,000	513.00/M	1808GC331MAT1A
			1000pF	±10%	2.03	478-2974-1-ND†	33.00	195.00	562.50	478-2974-2-ND†	2,000	540.00/M	1808GC102KAT1A
			1000pF	±20%	2.03	478-2975-1-ND†	31.08	183.63	529.69	478-2975-2-ND†	2,000	509.00/M	1808GC102MAT1A
			1500pF	±10%	2.03	478-2976-1-ND†	33.00	195.00	562.50	478-2976-2-ND†	2,000	540.00/M	1808GC152KAT1A
		1500V	1000pF	±10	2.03	478-2982-1-ND†	33.00	195.00	562.50	478-2982-2-ND†	2,000	540.00/M	1808SC102KAT1A
	C0G (NP0)	1000V	47pF	±10%	2.03	478-2963-1-ND†	33.00	195.00	562.50	478-2963-2-ND†	2,000	540.00/M	1808AA470KAT1A
			68pF	±10%	2.03	478-2965-1-ND†	33.00	195.00	562.50	478-2965-2-ND†	2,000	540.00/M	1808AA680KAT1A
			560pF	±5%	2.03	478-2964-1-ND†	39.60	234.00	675.00	478-2964-2-ND†	2,000	648.00/M	1808AA561JAT1A
	X7R	1000V	1000pF	±10%	2.03	478-2966-1-ND†	33.00	195.00	562.50	478-2966-2-ND†	2,000	540.00/M	1808AC102KAT1A
			3300pF	±10%	2.03	478-2969-1-ND†	33.00	195.00	562.50	478-2969-2-ND†	2,000	540.00/M	1808AC332KAT1A
			6800pF	±10%	2.03	478-2970-1-ND†	33.00	195.00	562.50	478-2970-2-ND†	2,000	540.00/M	1808AC682KAT1A
			10000pF	±10%	2.03	478-2967-1-ND†	33.00	195.00	562.50	478-2967-2-ND†	2,000	540.00/M	1808AC103KAT1A
			15000pF	±10%	2.03	478-2968-1-ND†	33.00	195.00	562.50	478-2968-2-ND†	2,000	540.00/M	1808AC153KAT1A
		600V	3300pF	±20%	2.03	478-2971-1-ND†	31.08	183.63	529.69	478-2971-2-ND†	2,000	509.00/M	1808CC332MAT1A
			39000pF	±10%	2.03	478-2972-1-ND†	33.00	195.00	562.50	478-2972-2-ND†	2,000	540.00/M	1808CC393KAT1A
1812	C0G (NP0)	3000V	47pF	±5%	2.54	478-3005-1-ND†	42.24	249.60	720.00	478-3005-2-ND†	1,000	691.00	1812HA470JAT1A
			330pF	±10%	2.54	478-3004-1-ND†	35.20	208.00	600.00	478-3004-2-ND†	1,000	576.00	1812HA331KAT1A
		2500V	100pF	±10%	2.54	478-3011-1-ND†	35.20	208.00	600.00	478-3011-2-ND†	1,000	576.00	1812WA101KAT1A
		2000V	470pF	±5%	2.54	478-2999-1-ND†	42.24	249.60	720.00	478-2999-2-ND†	1,000	691.00	1812GA471JAT1A
		1500V	560pF	±10%	2.54	478-3008-1-ND†	35.20	208.00	600.00	478-3008-2-ND†	1,000	576.00	1812SA561KAT1A
		1000V	100pF	±10%	2.54	478-2985-1-ND†	35.20	208.00	600.00	478-2985-2-ND†	1,000	576.00	1812AA101KAT1A
			220pF	±10%	2.54	478-2987-1-ND†	35.20	208.00	600.00	478-2987-2-ND†	1,000	576.00	1812AA221KAT1A
			470pF	±5%	2.54	478-2988-1-ND†	42.24	249.60	720.00	478-2988-2-ND†	1,000	691.00	1812AA471JAT1A
			1000pF	±20%	2.54	478-2986-1-ND†	33.44	197.60	570.00	478-2986-2-ND†	1,000	547.00	1812AA102MAT1A
		50V	.01µF	±5%	1.52	478-1636-1-ND	24.20	143.00	412.50	478-1636-2-ND	1,000	396.00	18125A103JAT2A
			.015µF	±5%	1.52	478-1637-1-ND	41.25	243.75	703.13	478-1637-2-ND	1,000	675.00	18125A153JAT2A
	X7R	3000V	470pF	±10%	2.54	478-3007-1-ND†	35.20	208.00	600.00	478-3007-2-ND†	1,000	576.00	1812HC471KAT1A
			1000pF	±10%	2.54	478-3006-1-ND†	35.20	208.00	600.00	478-3006-2-ND†	1,000	576.00	1812HC102KAT1A
		2500V	1200pF	±20%	2.54	478-3012-1-ND†	33.44	197.60	570.00	478-3012-2-ND†	1,000	547.00	1812WC122MAT1A
		2000V	1000pF	±10%	2.54	478-3000-1-ND†	35.20	208.00	600.00	478-3000-2-ND†	1,000	576.00	1812GC102KAT1A
			1000pF	±20%	2.54	478-3001-1-ND†	33.44	197.60	570.00	478-3001-2-ND†	1,000	547.00	1812GC102MAT1A
			2700pF	±10%	2.54	478-3002-1-ND†	35.20	208.00	600.00	478-3002-2-ND†	1,000	576.00	1812GC272KAT1A
			4700pF	±10%	2.54	478-3003-1-ND†	35.20	208.00	600.00	478-3003-2-ND†	1,000	576.00	1812GC472KAT1A
		1500V	4700pF	±10%	2.54	478-3009-1-ND†	35.20	208.00	600.00	478-3009-2-ND†	1,000	576.00	1812SC472KAT1A
			5600pF	±10%	2.54	478-3010-1-ND†	35.20	208.00	600.00	478-3010-2-ND†	1,000	576.00	1812SC562KAT1A
		1000V	1000pF	±10%	2.54	478-2989-1-ND†	35.20	208.00	600.00	478-2989-2-ND†	1,000	576.00	1812AC102KAT1A
			4700pF	±10%	2.54	478-2993-1-ND†	35.20	208.00	600.00	478-2993-2-ND†	1,000	576.00	1812AC472KAT1A
			5000pF	±10%	2.54	478-2994-1-ND†	35.20	208.00	600.00	478-2994-2-ND†	1,000	576.00	1812AC502KAT1A
			10000pF	±10%	2.54	478-2990-1-ND†	35.20	208.00	600.00	478-2990-2-ND†	1,000	576.00	1812AC103KAT1A
			22000pF	±10%	2.54	478-2991-1-ND†	35.20	208.00	600.00	478-2991-2-ND†	1,000	576.00	1812AC223KAT1A
			27000pF	±10%	2.54	478-2992-1-ND†	35.20	208.00	600.00	478-2992-2-ND†	1,000	576.00	1812AC273KAT1A
		600V	22000pF	±10%	2.54	478-2995-1-ND†	35.20	208.00	600.00	478-2995-2-ND†	1,000	576.00	1812CC223KAT1A
			33000pF	±10%	2.54	478-2996-1-ND†	35.20	208.00	600.00	478-2996-2-ND†	1,000	576.00	1812CC333KAT1A
			47000pF	±10%	2.54	478-2997-1-ND†	35.20	208.00	600.00	478-2997-2-ND†	1,000	576.00	1812CC473KAT1A
			68000pF	±10%	2.54	478-2998-1-ND†	35.20	208.00	600.00	478-2998-2-ND†	1,000	576.00	1812CC683KAT1A
		100V	.22µF	±10%	1.02	478-1640-1-ND	18.70	110.50	318.75	478-1640-2-ND	1,000	306.00	18121C224KAT2A
			.47µF	±10%	1.52	478-1641-1-ND	26.95	159.25	459.38	478-1641-2-ND	1,000	441.00	18121C474KAT2A
			1.0µF	±10%	2.29	478-1642-1-ND	33.55	198.25	—	478-1642-2-ND	700	384.30	18121C105KAT2A
		50V	2.2µF	±10%	2.79	478-2567-1-ND	29.70	175.50	—	478-2567-2-ND	500	243.00	18125C225KAT2A
	X5R	50V	1.0µF	±10%	1.27	478-1643-1-ND	28.05	165.75	478.13	478-1643-2-ND	1,000	459.00	18125C105KAT2A
		25V	10µF	±10%	2.79	478-1644-1-ND	45.65	269.75	—	478-1644-2-ND	500	373.50	18123D106KAT2A
		10V	22µF	±10%	2.79	478-1645-1-ND	45.65	269.75	—	478-1645-2-ND	500	373.50	1812ZD226KAT2A
		6.3V	47µF	±10%	2.79	478-1646-1-ND	82.50	487.50	—	478-1646-2-ND	500	675.00	18126D476KAT2A
			100µF	±10%	3.05	478-1647-1-ND	327.80	1937.00	—	478-1647-2-ND	500	2682.00	18126D107KAT2A
1825	C0G (NP0)	3000V	220pF	±10%	2.54	478-3017-1-ND†	46.20	273.00	787.50	478-3017-2-ND†	1,000	756.00	1825HA221KAT1A
		1000V	3300pF	±5%	2.54	478-3013-1-ND†	55.44	327.60	—	478-3013-2-ND†	500	453.50	1825AA332JAT1A
	X7R	2500V	5600pF	±10%	2.54	478-3018-1-ND†	46.20	273.00	787.50	478-3018-2-ND†	1,000	756.00	1825WC562KAT1A
		1000V	47000pF	±10%	2.54	478-3014-1-ND†	46.20	273.00	787.50	478-3014-2-ND†	1,000	756.00	1825AC473KAT1A
		600V	.10µF	±10%	2.54	478-3015-1-ND†	46.20	273.00	787.50	478-3015-2-ND†	1,000	756.00	1825CC104KAT1A
			.15µF	±10%	2.54	478-3016-1-ND†	46.20	273.00	787.50	478-3016-2-ND†	1,000	756.00	1825CC154KAT1A
2220	X7R	2000V	10000pF	±10%	3.3	478-3020-1-ND†	85.80	507.00	1462.50	478-3020-2-ND†	1,000	1404.00	2220GC103KAT1A
		50V	1.0µF	±10%	3.3	478-3019-1-ND†	85.80	507.00	1462.50	478-3019-2-ND†	1,000	1404.00	22205C105KAT1A
2225	C0G	1000V	8200pF	±10%	2.54	478-3022-1-ND†	85.80	507.00	—	478-3022-2-ND†	500	702.00	2225AA822KAT1A
	X7R	2000V	10000pF	±10%	2.54	478-3024-1-ND†	85.80	507.00	1462.50	478-3024-2-ND†	1,000	1404.00	2225GC103KAT1A
		600V	.22µF	±10%	2.54	478-3023-1-ND†	85.80	507.00	1462.50	478-3023-2-ND†	1,000	1404.00	2225CC224KAT1A
		200V	.33µF	±10%	2.54	478-3021-1-ND†	85.80	507.00	1462.50	478-3021-2-ND†	1,000	1404.00	22252C334KAT1A

† RoHS Compliant

AVX SQ Series RF/Microwave Multilayer Chip Capacitors

Features: • High Current Carrying Capabilities, High Q-Factor, Very Low ESR, Very High Series Resonance, Excellent Stability Under Stresses of Changing Voltage, Frequency, Time and Temperature

Specifications: • Operating Temperature: -55°C ~ 125°C • Temperature Coefficient: 90 ±20ppm/°C 5TR • Dielectric Withstanding Voltage: 2.5 x Rated Voltage (1.5 x Rated Voltage for 500V Rated Parts)

Size Code	L	W	T (Min. / Max.)
0605	.055+.015-.010	.055±.015	.020 / .057
1210	.110+.020-.010	.110±.010	.030 / .102

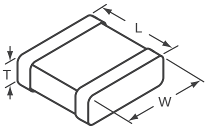

Size	WV			Digi-Key	Cut Tape Pricing			Digi-Key	Tape & Reel		AVX
Code	DC	Capacitance	Tolerance	Part No.	10	100	500	Part No.	Size	Pricing	Part No.
0605	150V	.10pF	±.10pF	478-2667-1-ND†	13.48	122.50	551.25	478-2667-2-ND	2,000	735.00/M	SQCAEM0R1BAJME
		.20pF	±.10pF	478-2668-1-ND†	13.48	122.50	551.25	478-2668-2-ND	2,000	735.00/M	SQCAEM0R2BAJME
		.30pF	±.10pF	478-2669-1-ND†	13.48	122.50	551.25	478-2669-2-ND	2,000	735.00/M	SQCAEM0R3BAJME
		.40pF	±.10pF	478-2670-1-ND†	13.48	122.50	551.25	478-2670-2-ND	2,000	735.00/M	SQCAEM0R4BAJME
		.50pF	±.10pF	478-2671-1-ND†	13.48	122.50	551.25	478-2671-2-ND	2,000	735.00/M	SQCAEM0R5BAJME
		.60pF	±.10pF	478-2672-1-ND†	13.48	122.50	551.25	478-2672-2-ND	2,000	735.00/M	SQCAEM0R6BAJME
		.70pF	±.10pF	478-2673-1-ND†	13.48	122.50	551.25	478-2673-2-ND	2,000	735.00/M	SQCAEM0R7BAJME
		.80pF	±.10pF	478-2674-1-ND†	13.48	122.50	551.25	478-2674-2-ND	2,000	735.00/M	SQCAEM0R8BAJME
		.90pF	±.10pF	478-2675-1-ND†	13.48	122.50	551.25	478-2675-2-ND	2,000	735.00/M	SQCAEM0R9BAJME
		1.0pF	±.10pF	478-2676-1-ND†	13.48	122.50	551.25	478-2676-2-ND	2,000	735.00/M	SQCAEM1R0BAJME
		1.1pF	±.10pF	478-2677-1-ND†	13.48	122.50	551.25	478-2677-2-ND	2,000	735.00/M	SQCAEM1R1BAJME
		1.2pF	±.10pF	478-2678-1-ND†	13.48	122.50	551.25	478-2678-2-ND	2,000	735.00/M	SQCAEM1R2BAJME
		1.5pF	±.10pF	478-2679-1-ND†	13.48	122.50	551.25	478-2679-2-ND	2,000	735.00/M	SQCAEM1R5BAJME
		1.6pF	±.25pF	478-2680-1-ND†	11.00	100.00	450.00	478-2680-2-ND	2,000	600.00/M	SQCAEM1R6CAJME
		1.8pF	±.25pF	478-2681-1-ND†	11.00	100.00	450.00	478-2681-2-ND	2,000	600.00/M	SQCAEM1R8CAJME
		2.0pF	±.25pF	478-2682-1-ND†	11.00	100.00	450.00	478-2682-2-ND	2,000	600.00/M	SQCAEM2R0CAJME
		2.2pF	±.10pF	478-2683-1-ND††	13.48	122.50	551.25	478-2683-2-ND	2,000	735.00/M	SQCAEM2R2BAJME
		2.4pF	±.10pF	478-2684-1-ND††	13.48	122.50	551.25	478-2684-2-ND	2,000	735.00/M	SQCAEM2R4BAJME
		2.7pF	±.10pF	478-2685-1-ND††	13.48	122.50	551.25	478-2685-2-ND	2,000	735.00/M	SQCAEM2R7BAJME
		3.0pF	±.10pF	478-2686-1-ND††	13.48	122.50	551.25	478-2686-2-ND	2,000	735.00/M	SQCAEM3R0BAJME
		3.3pF	±.10pF	478-2687-1-ND††	13.48	122.50	551.25	478-2687-2-ND	2,000	735.00/M	SQCAEM3R3BAJME
		3.9pF	±.25pF	478-2688-1-ND††	11.00	100.00	450.00	478-2688-2-ND	2,000	600.00/M	SQCAEM3R9CAJME
		4.7pF	±.25pF	478-2689-1-ND††	11.00	100.00	450.00	478-2689-2-ND	2,000	600.00/M	SQCAEM4R7CAJME
		5.6pF	±.25pF	478-2690-1-ND††	11.00	100.00	450.00	478-2690-2-ND	2,000	600.00/M	SQCAEM5R6CAJME
		6.8pF	±.25pF	478-2691-1-ND††	16.78	152.50	686.25	478-2691-2-ND	2,000	915.00/M	SQCAEM6R8CAJME
		8.2pF	±.25pF	478-2692-1-ND††	16.78	152.50	686.25	478-2692-2-ND	2,000	915.00/M	SQCAEM8R2CAJME
		10pF	±5%	478-2693-1-ND††	13.75	125.00	562.50	478-2693-2-ND	2,000	750.00/M	SQCAEM100JAJME
		12pF	±5%	478-2694-1-ND††	13.75	125.00	562.50	478-2694-2-ND	2,000	750.00/M	SQCAEM120JAJME
		15pF	±5%	478-2695-1-ND††	13.75	125.00	562.50	478-2695-2-ND	2,000	750.00/M	SQCAEM150JAJME
		18pF	±5%	478-2696-1-ND††	13.75	125.00	562.50	478-2696-2-ND	2,000	750.00/M	SQCAEM180JAJME
		20pF	±5%	478-2697-1-ND††	13.75	125.00	562.50	478-2697-2-ND	2,000	750.00/M	SQCAEM200JAJME
		22pF	±5%	478-2698-1-ND††	13.75	125.00	562.50	478-2698-2-ND	2,000	750.00/M	SQCAEM220JAJME
		24pF	±5%	478-2699-1-ND††	13.75	125.00	562.50	478-2699-2-ND	2,000	750.00/M	SQCAEM240JAJME
		27pF	±5%	478-2700-1-ND††	13.75	125.00	562.50	478-2700-2-ND	2,000	750.00/M	SQCAEM270JAJME
		30pF	±5%	478-2701-1-ND††	13.75	125.00	562.50	478-2701-2-ND	2,000	750.00/M	SQCAEM300JAJME
		33pF	±5%	478-2702-1-ND††	13.75	125.00	562.50	478-2702-2-ND	2,000	750.00/M	SQCAEM330JAJME
		39pF	±5%	478-2703-1-ND††	13.75	125.00	562.50	478-2703-2-ND	2,000	750.00/M	SQCAEM390JAJME
		47pF	±5%	478-2704-1-ND††	13.75	125.00	562.50	478-2704-2-ND	2,000	750.00/M	SQCAEM470JAJME
		56pF	±5%	478-2705-1-ND††	13.75	125.00	562.50	478-2705-2-ND	2,000	750.00/M	SQCAEM560JAJME
		68pF	±5%	478-2706-1-ND††	13.75	125.00	562.50	478-2706-2-ND	2,000	750.00/M	SQCAEM680JAJME
		82pF	±5%	478-2707-1-ND††	13.75	125.00	562.50	478-2707-2-ND	2,000	750.00/M	SQCAEM820JAJME
		100pF	±5%	478-2708-1-ND††	13.75	125.00	562.50	478-2708-2-ND	2,000	750.00/M	SQCAEM101JAJME
1210	500V	1.0pF	±.10pF	478-2621-1-ND•	11.22	102.00	459.00	478-2621-2-ND	2,000	612.00/M	SQCB7M1R0BAJME
		1.2pF	±.10pF	478-2622-1-ND•	11.22	102.00	459.00	478-2622-2-ND	2,000	612.00/M	SQCB7M1R2BAJME
		1.5pF	±.10pF	478-2623-1-ND•	11.22	102.00	459.00	478-2623-2-ND	2,000	612.00/M	SQCB7M1R5BAJME
		1.8pF	±.10pF	478-2624-1-ND•	11.22	102.00	459.00	478-2624-2-ND	2,000	612.00/M	SQCB7M1R8BAJME
		2.0pF	±.10pF	478-2625-1-ND•	11.22	102.00	459.00	478-2625-2-ND	2,000	612.00/M	SQCB7M2R0BAJME
		2.2pF	±.10pF	478-2626-1-ND•	11.22	102.00	459.00	478-2626-2-ND	2,000	612.00/M	SQCB7M2R2BAJME
		2.4pF	±.10pF	478-2627-1-ND•	11.22	102.00	459.00	478-2627-2-ND	2,000	612.00/M	SQCB7M2R4BAJME
		2.7pF	±.10pF	478-2628-1-ND•	11.22	102.00	459.00	478-2628-2-ND	2,000	612.00/M	SQCB7M2R7BAJME
		3.0pF	±.10pF	478-2629-1-ND•	11.22	102.00	459.00	478-2629-2-ND	2,000	612.00/M	SQCB7M3R0BAJME
		3.3pF	±.10pF	478-2630-1-ND•	11.22	102.00	459.00	478-2630-2-ND	2,000	612.00/M	SQCB7M3R3BAJME
		3.9pF	±.25pF	478-2631-1-ND•	9.46	86.00	387.00	478-2631-2-ND	2,000	516.00/M	SQCB7M3R9CAJME
		4.7pF	±.25pF	478-2632-1-ND•	9.46	86.00	387.00	478-2632-2-ND	2,000	516.00/M	SQCB7M4R7CAJME
		5.6pF	±.25pF	478-2633-1-ND•	9.46	86.00	387.00	478-2633-2-ND	2,000	516.00/M	SQCB7M5R6CAJME
		6.8pF	±.25pF	478-2634-1-ND•	9.13	83.00	373.50	478-2634-2-ND	2,000	498.00/M	SQCB7M6R8CAJME
		8.2pF	±.25pF	478-2635-1-ND•	14.08	128.00	576.00	478-2635-2-ND	2,000	768.00/M	SQCB7M8R2CAJME
		10pF	±5%	478-2636-1-ND•	11.44	104.00	468.00	478-2636-2-ND	2,000	624.00/M	SQCB7M100JAJME
		12pF	±5%	478-2637-1-ND•	11.44	104.00	468.00	478-2637-2-ND	2,000	624.00/M	SQCB7M120JAJME
		15pF	±5%	478-2638-1-ND•	11.44	104.00	468.00	478-2638-2-ND	2,000	624.00/M	SQCB7M150JAJME
		18pF	±5%	478-2639-1-ND•	11.44	104.00	468.00	478-2639-2-ND	2,000	624.00/M	SQCB7M180JAJME
		20pF	±5%	478-2640-1-ND•	11.44	104.00	468.00	478-2640-2-ND	2,000	624.00/M	SQCB7M200JAJME
		22pF	±5%	478-2641-1-ND•	11.44	104.00	468.00	478-2641-2-ND	2,000	624.00/M	SQCB7M220JAJME
		24pF	±5%	478-2642-1-ND•	11.44	104.00	468.00	478-2642-2-ND	2,000	624.00/M	SQCB7M240JAJME
		27pF	±5%	478-2643-1-ND•	11.44	104.00	468.00	478-2643-2-ND	2,000	624.00/M	SQCB7M270JAJME
		30pF	±5%	478-2644-1-ND•	11.44	104.00	468.00	478-2644-2-ND	2,000	624.00/M	SQCB7M300JAJME
		33pF	±5%	478-2645-1-ND•	11.44	104.00	468.00	478-2645-2-ND	2,000	624.00/M	SQCB7M330JAJME
		39pF	±5%	478-2646-1-ND•	11.44	104.00	468.00	478-2646-2-ND	2,000	624.00/M	SQCB7M390JAJME
		47pF	±5%	478-2647-1-ND•	11.44	104.00	468.00	478-2647-2-ND	2,000	624.00/M	SQCB7M470JAJME
		56pF	±5%	478-2648-1-ND•	11.44	104.00	468.00	478-2648-2-ND	2,000	624.00/M	SQCB7M560JAJME
		68pF	±5%	478-2649-1-ND•	11.44	104.00	468.00	478-2649-2-ND	2,000	624.00/M	SQCB7M680JAJME
		82pF	±5%	478-2650-1-ND•	11.44	104.00	468.00	478-2650-2-ND	2,000	624.00/M	SQCB7M820JAJME
		100pF	±5%	478-2651-1-ND•	11.44	104.00	468.00	478-2651-2-ND	2,000	624.00/M	SQCB7M101JAJME
	300V	120pF	±5%	478-2652-1-ND•	11.44	104.00	468.00	478-2652-2-ND	2,000	624.00/M	SQCB9M121JAJME
		150pF	±5%	478-2653-1-ND•	11.44	104.00	468.00	478-2653-2-ND	2,000	624.00/M	SQCB9M151JAJME
		180pF	±5%	478-2654-1-ND•	11.44	104.00	468.00	478-2654-2-ND	2,000	624.00/M	SQCB9M181JAJME
		200pF	±5%	478-2655-1-ND•	11.44	104.00	468.00	478-2655-2-ND	2,000	624.00/M	SQCB9M201JAJME
	200V	220pF	±5%	478-2656-1-ND•	11.44	104.00	468.00	478-2656-2-ND	2,000	624.00/M	SQCB2M221JAJME
		240pF	±5%	478-2657-1-ND•	11.44	104.00	468.00	478-2657-2-ND	2,000	624.00/M	SQCB2M241JAJME
		270pF	±5%	478-2658-1-ND•	11.44	104.00	468.00	478-2658-2-ND	2,000	624.00/M	SQCB2M271JAJME
		300pF	±5%	478-2659-1-ND•	11.44	104.00	468.00	478-2659-2-ND	2,000	624.00/M	SQCB2M301JAJME
		330pF	±5%	478-2660-1-ND•	11.44	104.00	468.00	478-2660-2-ND	2,000	624.00/M	SQCB2M331JAJME
		390pF	±5%	478-2661-1-ND•	11.44	104.00	468.00	478-2661-2-ND	2,000	624.00/M	SQCB2M391JAJME
		470pF	±5%	478-2662-1-ND•	11.44	104.00	468.00	478-2662-2-ND	2,000	624.00/M	SQCB2M471JAJME
	150V	560pF	±10%	478-2663-1-ND•	14.30	130.00	585.00	478-2663-2-ND	2,000	780.00/M	SQCBEM561KAJME
		680pF	±10%	478-2664-1-ND•	14.30	130.00	585.00	478-2664-2-ND	1,000	780.00	SQCBEM681KAJME
		820pF	±10%	478-2665-1-ND•	14.30	130.00	585.00	478-2665-2-ND	2,000	780.00/M	SQCBEM821KAJME
		1000pF	±10%	478-2666-1-ND•	8.14	74.00	333.00	478-2666-2-ND	1,000	444.00	SQCBEM102KAJME

SQ P90 Kits

• 478-2836-ND	*SQCB/KITSQ001*	10 each of values denoted (460 total pieces)	$119.70
† 478-2837-ND	*SQCA/KITSQ002*	10 each of values denoted (160 total pieces)	$119.70
†† 478-2838-ND	*SQCA/KITSQ003*	10 each of values denoted (260 total pieces)	$119.70

AVX

Accu-P® Series

Thin Film RF/Microwave Multilayer Chip Capacitors

Features: • Low ESR, High Q, Very Low Capacitance Values, Very Tight Capacitance Tolerances, High RF Power Handling Capability, Hand Solderable

Specifications: • Operating Temperature: -55°C ~ 125°C • Insulation Resistance: ≥ 10^{11} Ω (≥ 10^{10} Ω for 0201 and 0402 size) • Dielectric Absorption: .01%

Size Code	L	W	T
0201	0.60 (0.023)	0.325 (0.0128)	0.225 (0.009)
0402	1.00 (0.039)	0.55 (0.022)	0.40 (0.016)
0603	1.60 (0.063)	0.81 (0.032)	0.63 (0.025)

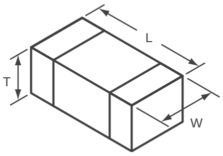

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
					10	100	500		Size	Pricing	
0201	25V	.10pF	±.02pF	478-2709-1-ND∞	12.92	85.50	323.00	478-2709-2-ND	5,000	494.00/M	02013J0R1PBWTR
		.20pF	±.02pF	478-2710-1-ND∞	12.92	85.50	323.00	478-2710-2-ND	5,000	494.00/M	02013J0R2PBWTR
		.30pF	±.02pF	478-2711-1-ND∞	5.10	33.75	127.50	478-2711-2-ND	5,000	195.00/M	02013J0R3PBWTR
		.40pF	±.02pF	478-2712-1-ND∞	5.10	33.75	127.50	478-2712-2-ND	5,000	195.00/M	02013J0R4PBWTR
		.50pF	±.02pF	478-2713-1-ND∞	12.92	85.50	323.00	478-2713-2-ND	5,000	494.00/M	02013J0R5PBWTR
		.60pF	±.02pF	478-2714-1-ND∞	12.92	85.50	323.00	478-2714-2-ND	5,000	494.00/M	02013J0R6PBWTR
		.70pF	±.02pF	478-2715-1-ND∞	12.92	85.50	323.00	478-2715-2-ND	5,000	494.00/M	02013J0R7PBWTR
		.80pF	±.02pF	478-2716-1-ND	12.92	85.50	323.00	478-2716-2-ND	5,000	494.00/M	02013J0R8PBWTR
		.90pF	±.02pF	478-2717-1-ND	12.92	85.50	323.00	478-2717-2-ND	5,000	494.00/M	02013J0R9PBWTR
		1.0pF	±.05pF	478-2718-1-ND†	6.12	40.50	153.00	478-2718-2-ND	5,000	234.00/M	02013J1R0ABWTR
		1.1pF	±.05pF	478-2719-1-ND†	6.12	40.50	153.00	478-2719-2-ND	5,000	234.00/M	02013J1R1ABWTR
		1.2pF	±.05pF	478-2720-1-ND†	4.08	27.00	102.00	478-2720-2-ND	5,000	156.00/M	02013J1R2ABWTR
		1.3pF	±.05pF	478-2721-1-ND†	6.12	40.50	153.00	478-2721-2-ND	5,000	234.00/M	02013J1R3ABWTR
		1.4pF	±.05pF	478-2722-1-ND	6.12	40.50	153.00	478-2722-2-ND	5,000	234.00/M	02013J1R4ABWTR
		1.5pF	±.05pF	478-2723-1-ND†	4.08	27.00	102.00	478-2723-2-ND	5,000	156.00/M	02013J1R5ABWTR
		1.6pF	±.05pF	478-2724-1-ND	6.12	40.50	153.00	478-2724-2-ND	5,000	234.00/M	02013J1R6ABWTR
		1.7pF	±.05pF	478-2725-1-ND	6.12	40.50	153.00	478-2725-2-ND	5,000	234.00/M	02013J1R7ABWTR
		1.8pF	±.05pF	478-2726-1-ND†	6.12	40.50	153.00	478-2726-2-ND	5,000	234.00/M	02013J1R8ABWTR
		1.9pF	±.05pF	478-2727-1-ND	6.12	40.50	153.00	478-2727-2-ND	5,000	234.00/M	02013J1R9ABWTR
		2.0pF	±.05pF	478-2728-1-ND†	6.12	40.50	153.00	478-2728-2-ND	5,000	234.00/M	02013J2R0ABWTR
		2.1pF	±.10pF	478-2729-1-ND	4.08	27.00	102.00	478-2729-2-ND	5,000	156.00/M	02013J2R1BBWTR
		2.2pF	±.10pF	478-2730-1-ND•†	4.08	27.00	102.00	478-2730-2-ND	5,000	156.00/M	02013J2R2BBWTR
		2.3pF	±.10pF	478-2731-1-ND	4.08	27.00	102.00	478-2731-2-ND	5,000	156.00/M	02013J2R3BBWTR
		2.4pF	±.10pF	478-2732-1-ND•†	4.08	27.00	102.00	478-2732-2-ND	5,000	156.00/M	02013J2R4BBWTR
		2.5pF	±.10pF	478-2733-1-ND	4.08	27.00	102.00	478-2733-2-ND	5,000	156.00/M	02013J2R5BBWTR
		2.6pF	±.10pF	478-2734-1-ND	4.08	27.00	102.00	478-2734-2-ND	5,000	156.00/M	02013J2R6BBWTR
		2.7pF	±.10pF	478-2735-1-ND•†	3.40	22.50	85.00	478-2735-2-ND	5,000	130.00/M	02013J2R7BBWTR
	16V	2.8pF	±.10pF	478-2736-1-ND	4.08	27.00	102.00	478-2736-2-ND	5,000	156.00/M	0201YJ2R8BBWTR
		2.9pF	±.10pF	478-2737-1-ND	4.08	27.00	102.00	478-2737-2-ND	5,000	156.00/M	0201YJ2R9BBWTR
		3.0pF	±.10pF	478-2738-1-ND•†	4.08	27.00	102.00	478-2738-2-ND	5,000	156.00/M	0201YJ3R0BBWTR
		3.1pF	±.10pF	478-2739-1-ND	4.08	27.00	102.00	478-2739-2-ND	5,000	156.00/M	0201YJ3R1BBWTR
		3.3pF	±.10pF	478-2740-1-ND•†	4.08	27.00	102.00	478-2740-2-ND	5,000	156.00/M	0201YJ3R3BBWTR
		3.6pF	±.10pF	478-2741-1-ND•†	4.08	27.00	102.00	478-2741-2-ND	5,000	156.00/M	0201YJ3R6BBWTR
		3.9pF	±.10pF	478-2742-1-ND•†	4.08	27.00	102.00	478-2742-2-ND	5,000	156.00/M	0201YJ3R9BBWTR
	10V	4.1pF	±.10pF	478-2743-1-ND	4.08	27.00	102.00	478-2743-2-ND	5,000	156.00/M	0201ZK4R1BBWTR
		4.3pF	±.10pF	478-2744-1-ND	4.08	27.00	102.00	478-2744-2-ND	5,000	156.00/M	0201ZK4R3BBWTR
		4.5pF	±.10pF	478-2745-1-ND	4.08	27.00	102.00	478-2745-2-ND	5,000	156.00/M	0201ZK4R5BBWTR
		4.7pF	±.10pF	478-2746-1-ND•†	3.40	22.50	85.00	478-2746-2-ND	5,000	130.00/M	0201ZK4R7BBWTR
		5.6pF	±.10pF	478-2747-1-ND•	4.08	27.00	102.00	478-2747-2-ND	5,000	156.00/M	0201ZK5R6BBWTR
		6.8pF	±.10pF	478-2748-1-ND•	4.08	27.00	102.00	478-2748-2-ND	5,000	156.00/M	0201ZK6R8BBWTR
		7.5pF	±.10pF	478-2749-1-ND•	3.40	22.50	85.00	478-2749-2-ND	5,000	130.00/M	0201ZK7R5BBWTR
		8.2pF	±.10pF	478-2750-1-ND•	4.08	27.00	102.00	478-2750-2-ND	5,000	156.00/M	0201ZK8R2BBWTR
		10pF	±2%	478-2751-1-ND•	6.12	40.50	153.00	478-2751-2-ND	5,000	234.00/M	0201ZK100GBWTR
		12pF	±2%	478-2752-1-ND•	6.12	40.50	153.00	478-2752-2-ND	5,000	234.00/M	0201ZK120GBWTR
0402	25V	.10pF	±.02pF	478-2753-1-ND††	15.30	101.25	382.50	478-2753-2-ND	5,000	585.00/M	04023J0R1PBWTR
		.20pF	±.02pF	478-2754-1-ND††	15.30	101.25	382.50	478-2754-2-ND	5,000	585.00/M	04023J0R2PBWTR
		.30pF	±.02pF	478-2755-1-ND††	15.30	101.25	382.50	478-2755-2-ND	5,000	585.00/M	04023J0R3PBWTR
		.40pF	±.02pF	478-2756-1-ND††	15.30	101.25	382.50	478-2756-2-ND	5,000	585.00/M	04023J0R4PBWTR
		.50pF	±.02pF	478-2757-1-ND††	15.30	101.25	382.50	478-2757-2-ND	5,000	585.00/M	04023J0R5PBWTR
		.60pF	±.02pF	478-2758-1-ND††	15.30	101.25	382.50	478-2758-2-ND	5,000	585.00/M	04023J0R6PBWTR
		.70pF	±.02pF	478-2759-1-ND††	15.30	101.25	382.50	478-2759-2-ND	5,000	585.00/M	04023J0R7PBWTR
		.80pF	±.02pF	478-2760-1-ND	15.30	101.25	382.50	478-2760-2-ND	5,000	585.00/M	04023J0R8PBWTR
		.90pF	±.02pF	478-2761-1-ND	15.30	101.25	382.50	478-2761-2-ND	5,000	585.00/M	04023J0R9PBWTR
		1.0pF	±.05pF	478-2762-1-ND§	6.12	40.50	153.00	478-2762-2-ND	5,000	234.00/M	04023J1R0ABWTR
		1.1pF	±.05pF	478-2763-1-ND§	6.12	40.50	153.00	478-2763-2-ND	5,000	234.00/M	04023J1R1ABWTR
		1.2pF	±.05pF	478-2764-1-ND§	6.12	40.50	153.00	478-2764-2-ND	5,000	234.00/M	04023J1R2ABWTR
		1.3pF	±.05pF	478-2765-1-ND§	6.12	40.50	153.00	478-2765-2-ND	5,000	234.00/M	04023J1R3ABWTR
		1.4pF	±.05pF	478-2766-1-ND§	6.12	40.50	153.00	478-2766-2-ND	5,000	234.00/M	04023J1R4ABWTR
		1.5pF	±.05pF	478-2767-1-ND§	6.12	40.50	153.00	478-2767-2-ND	5,000	234.00/M	04023J1R5ABWTR
		1.6pF	±.05pF	478-2768-1-ND§	10.54	69.75	263.50	478-2768-2-ND	5,000	403.00/M	04023J1R6ABWTR
		1.7pF	±.05pF	478-2769-1-ND§	6.12	40.50	153.00	478-2769-2-ND	5,000	234.00/M	04023J1R7ABWTR
		1.8pF	±.05pF	478-2770-1-ND§	6.12	40.50	153.00	478-2770-2-ND	5,000	234.00/M	04023J1R8ABWTR
		1.9pF	±.05pF	478-2771-1-ND§	6.12	40.50	153.00	478-2771-2-ND	5,000	234.00/M	04023J1R9ABWTR
		2.0pF	±.05pF	478-2772-1-ND§	6.12	40.50	153.00	478-2772-2-ND	5,000	234.00/M	04023J2R0ABWTR
		2.1pF	±.10pF	478-2773-1-ND§	4.08	27.00	102.00	478-2773-2-ND	5,000	156.00/M	04023J2R1BBWTR
		2.2pF	±.10pF	478-2774-1-ND§	4.08	27.00	102.00	478-2774-2-ND	5,000	156.00/M	04023J2R2BBWTR
		2.3pF	±.10pF	478-2775-1-ND§	4.08	27.00	102.00	478-2775-2-ND	5,000	156.00/M	04023J2R3BBWTR
		2.4pF	±.10pF	478-2776-1-ND§	4.08	27.00	102.00	478-2776-2-ND	5,000	156.00/M	04023J2R4BBWTR
		2.5pF	±.10pF	478-2777-1-ND§	4.08	27.00	102.00	478-2777-2-ND	5,000	156.00/M	04023J2R5BBWTR
		2.6pF	±.10pF	478-2778-1-ND§	4.08	27.00	102.00	478-2778-2-ND	5,000	156.00/M	04023J2R6BBWTR
		2.7pF	±.10pF	478-2779-1-ND§	4.08	27.00	102.00	478-2779-2-ND	5,000	156.00/M	04023J2R7BBWTR
		2.8pF	±.10pF	478-2780-1-ND§	4.08	27.00	102.00	478-2780-2-ND	5,000	156.00/M	04023J2R8BBWTR
		2.9pF	±.10pF	478-2781-1-ND§	4.08	27.00	102.00	478-2781-2-ND	5,000	156.00/M	04023J2R9BBWTR
		3.0pF	±.10pF	478-2782-1-ND§	4.08	27.00	102.00	478-2782-2-ND	5,000	156.00/M	04023J3R0BBWTR
		3.1pF	±.10pF	478-2783-1-ND§	4.08	27.00	102.00	478-2783-2-ND	5,000	156.00/M	04023J3R1BBWTR
		3.3pF	±.10pF	478-2784-1-ND§	4.08	27.00	102.00	478-2784-2-ND	5,000	156.00/M	04023J3R3BBWTR
		3.6pF	±.10pF	478-2785-1-ND§	4.08	27.00	102.00	478-2785-2-ND	5,000	156.00/M	04023J3R6BBWTR
		3.9pF	±.10pF	478-2786-1-ND§	4.08	27.00	102.00	478-2786-2-ND	5,000	156.00/M	04023J3R9BBWTR
		4.1pF	±.10pF	478-2787-1-ND§	4.08	27.00	102.00	478-2787-2-ND	5,000	156.00/M	04023J4R1BBWTR
		4.3pF	±.10pF	478-2788-1-ND§	4.08	27.00	102.00	478-2788-2-ND	5,000	156.00/M	04023J4R3BBWTR
		4.5pF	±.10pF	478-2789-1-ND§	4.08	27.00	102.00	478-2789-2-ND	5,000	156.00/M	04023J4R5BBWTR
		4.7pF	±.10pF	478-2790-1-ND§	4.08	27.00	102.00	478-2790-2-ND	5,000	156.00/M	04023J4R7BBWTR
		5.6pF	±.10pF	478-2791-1-ND	4.08	27.00	102.00	478-2791-2-ND	5,000	156.00/M	04023J5R6BBWTR
		6.8pF	±.10pF	478-2792-1-ND	4.08	27.00	102.00	478-2792-2-ND	5,000	156.00/M	04023J6R8BBWTR
	16V	8.2pF	±.10pF	478-2793-1-ND	4.08	27.00	102.00	478-2793-2-ND	5,000	156.00/M	0402YJ8R2BBWTR
		10pF	±2%	478-2794-1-ND	6.12	40.50	153.00	478-2794-2-ND	5,000	234.00/M	0402YJ100GBWTR
		12pF	±2%	478-2795-1-ND	6.12	40.50	153.00	478-2795-2-ND	5,000	234.00/M	0402ZJ120GBWTR
	10V	15pF	±2%	478-2796-1-ND	6.12	40.50	153.00	478-2796-2-ND	5,000	234.00/M	0402ZJ150GBWTR
		18pF	±2%	478-2797-1-ND	6.12	40.50	153.00	478-2797-2-ND	5,000	234.00/M	0402ZK180GBWTR
		22pF	±2%	478-2798-1-ND	6.12	40.50	153.00	478-2798-2-ND	5,000	234.00/M	0402ZK220GBWTR
0603	50V	.10pF	±.02pF	478-2799-1-ND◊	15.30	101.25	382.50	478-2799-2-ND	3,000	585.00/M	06035J0R1PBTTR
		.20pF	±.02pF	478-2800-1-ND◊	15.30	101.25	382.50	478-2800-2-ND	3,000	585.00/M	06035J0R2PBTTR
		.30pF	±.02pF	478-2801-1-ND◊	15.30	101.25	382.50	478-2801-2-ND	3,000	585.00/M	06035J0R3PBTTR
		.40pF	±.02pF	478-2802-1-ND◊	15.30	101.25	382.50	478-2802-2-ND	3,000	585.00/M	06035J0R4PBTTR
		.50pF	±.02pF	478-2803-1-ND◊	15.30	101.25	382.50	478-2803-2-ND	3,000	585.00/M	06035J0R5PBTTR
		.60pF	±.02pF	478-2804-1-ND◊	15.30	101.25	382.50	478-2804-2-ND	3,000	585.00/M	06035J0R6PBTTR

(Continued)

AVX Accu-P® Series Thin Film RF/Microwave Multilayer Chip Capacitors *(Cont.)*

Size Code	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		AVX Part No.
					10	100	500		Size	Pricing	
0603	50V	.70pF	±.02pF	478-2805-1-ND◊	15.30	101.25	382.50	478-2805-2-ND	3,000	585.00/M	06035J0R7PBTTR
		.80pF	±.02pF	478-2806-1-ND◊	15.30	101.25	382.50	478-2806-2-ND	3,000	585.00/M	06035J0R8PBTTR
		.90pF	±.02pF	478-2807-1-ND◊	15.30	101.25	382.50	478-2807-2-ND	3,000	585.00/M	06035J0R9PBTTR
		1.0pF	±.10pF	478-2808-1-ND◊	7.82	51.75	195.50	478-2808-2-ND	3,000	299.00/M	06035J1R0BBTTR
		1.1pF	±.10pF	478-2809-1-ND◊	7.82	51.75	195.50	478-2809-2-ND	3,000	299.00/M	06035J1R1BBTTR
		1.2pF	±.10pF	478-2810-1-ND◊	7.82	51.75	195.50	478-2810-2-ND	3,000	299.00/M	06035J1R2BBTTR
		1.5pF	±.10pF	478-2811-1-ND◊	7.82	51.75	195.50	478-2811-2-ND	3,000	299.00/M	06035J1R5BBTTR
		1.8pF	±.10pF	478-2812-1-ND◊	7.82	51.75	195.50	478-2812-2-ND	3,000	299.00/M	06035J1R8BBTTR
		2.0pF	±.10pF	478-2813-1-ND◊	7.82	51.75	195.50	478-2813-2-ND	3,000	299.00/M	06035J2R0BBTTR
		2.2pF	±.10pF	478-2814-1-ND◊	7.82	51.75	195.50	478-2814-2-ND	3,000	299.00/M	06035J2R2BBTTR
		2.4pF	±.10pF	478-2815-1-ND◊	7.82	51.75	195.50	478-2815-2-ND	3,000	299.00/M	06035J2R4BBTTR
		2.7pF	±.10pF	478-2816-1-ND◊	7.82	51.75	195.50	478-2816-2-ND	3,000	299.00/M	06035J2R7BBTTR
		3.0pF	±.10pF	478-2817-1-ND◊	7.82	51.75	195.50	478-2817-2-ND	3,000	299.00/M	06035J3R0BBTTR
		3.3pF	±.10pF	478-2818-1-ND◊	7.82	51.75	195.50	478-2818-2-ND	3,000	299.00/M	06035J3R3BBTTR
		3.9pF	±.10pF	478-2819-1-ND◊	7.82	51.75	195.50	478-2819-2-ND	3,000	299.00/M	06035J3R9BBTTR
		4.7pF	±.10pF	478-2820-1-ND◊	7.82	51.75	195.50	478-2820-2-ND	3,000	299.00/M	06035J4R7BBTTR
		5.6pF	±.10pF	478-2821-1-ND◊	7.82	51.75	195.50	478-2821-2-ND	3,000	299.00/M	06035J5R6BBTTR
		6.8pF	±.10pF	478-2822-1-ND◊	7.82	51.75	195.50	478-2822-2-ND	3,000	299.00/M	06035J6R8BBTTR
		8.2pF	±.10pF	478-2823-1-ND◊	7.82	51.75	195.50	478-2823-2-ND	3,000	299.00/M	06035J8R2BBTTR
		10pF	±2%	478-2824-1-ND◊	7.82	51.75	195.50	478-2824-2-ND	3,000	299.00/M	06035J100GBTTR
		12pF	±2%	478-2825-1-ND◊	7.82	51.75	195.50	478-2825-2-ND	3,000	299.00/M	06035J120GBTTR
	25V	15pF	±2%	478-2826-1-ND◊	7.82	51.75	195.50	478-2826-2-ND	3,000	299.00/M	06033J150GBTTR
		22pF	±2%	478-2828-1-ND◊	7.82	51.75	195.50	478-2828-2-ND	3,000	299.00/M	06033J220GBTTR

Designer Kits

∞	**478-2834-ND**	***Accu-P/Type 2000***	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key®. (600 total pieces).	**$178.75**
†	**478-2831-ND**	***Accu-P/Type 1800***	20 each of values denoted plus values: (pF) 1.4, 1.6, 1.7, 1.9, 2.1, 2.3, 2.5, 2.6, 2.8, 2.9, 3.1, 3.4, 4.1, 4.3, 4.5 not stocked by Digi-Key®. (600 total pieces)	**$178.75**
•	**478-2835-ND**	***Accu-P/Type 1700***	20 each of values denoted plus values: (pF) 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.1, 1.2, 1.3, 1.5, 1.8, 2.0 not stocked by Digi-Key®. (300 total pieces).	**$178.75**
††	**478-2832-ND**	***Accu-P/Type 2100***	20 each of values denoted plus values: (pF) 0.05, 0.15, 0.25, 0.35, 0.45, 0.55, 0.65, 0.75 not stocked by Digi-Key®. (600 total pieces)	**$178.75**
§	**478-2833-ND**	***Accu-P/Type 1400***	20 each of values denoted plus value: (pF) 3.4 not stocked by Digi-Key®. (300 total pieces)	**$178.75**
◊	**478-2829-ND**	***Accu-P/Type 900***	20 each of values denoted (600 total pieces).	**$148.96**

AVX Feedthru 0805/1206 Capacitors

Available in both a standard 0805 and 1206 size, AVX's line of feedthru capacitors are ideal choices for EMI suppression, broadband I/O filtering, or Vcc power line conditioning. The unique construction of a feedthru capacitor provides low parallel inductance and offers excellent decoupling capability for all high di/dt environments and provides significant noise reduction in digital circuits to <5 GHz.

Characteristics: • Current Rating: 300mA • Insulation Resistance: 1,000MΩ • DC Resistance: <0.6Ω • Operating Temperature: -55°C ~ 125°C

TOP VIEW

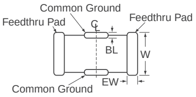

SIDE VIEW

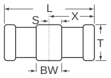

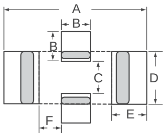

Dimensions (mm.)

Series	A	B	C	D	E	F	L	W	T	BW	BL	EW	X	S
0805	3.45	0.51	0.76	1.27	1.02	0.46	2.01 ±0.20	1.25 ±0.20	1.14 Max.	0.46 ±0.10	0.18 +0.25/-0.08	0.25 ±0.13	1.02 ±0.10	0.23 ±0.15
1206	4.54	0.94	1.02	1.65	1.09	0.71	3.20 ±0.20	1.60 ±0.20	1.27 Max.	0.89 ±0.10	0.18 +0.25/-0.08	0.38 ±0.18	1.60 ±0.10	0.46 ±0.15

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance %	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing	AVX Part No.
						10	100	500		1,000	
0805	NPO	100V	220pF	+50%, -20%	478-2232-1-ND	1.07	.64	.37	478-2232-2-ND	174.60	W2F11A2218AT1F
	NPO	100V	470pF	+50%, -20%	478-2233-1-ND	1.07	.64	.37	478-2233-2-ND	174.60	W2F11A4718AT1F
	X7R	50V	1000pF	+50%, -20%	478-2234-1-ND	1.13	.67	.39	478-2234-2-ND	183.60	W2F15C1028AT1F
	X7R	50V	10,000pF	+50%, -20%	478-2235-1-ND	1.13	.67	.39	478-2235-2-ND	183.60	W2F15C1038AT1F
	X7R	50V	22,000pF	+50%, -20%	478-2236-1-ND	1.13	.67	.39	478-2236-2-ND	183.60	W2F15C2238AT1F
	X7R	50V	47,000pF	+50%, -20%	478-2237-1-ND	1.13	.67	.39	478-2237-2-ND	183.60	W2F15C4738AT1F
1206	NPO	100V	47pF	+50%, -20%	478-2238-1-ND	1.10	.65	.38	478-2238-2-ND	180.00	W3F11A4708AT1F
	X7R	50V	2200pF	+50%, -20%	478-2239-1-ND	1.16	.69	.40	478-2239-2-ND	189.00	W3F15C2228AT1F

Low Inductance Capacitors 0612/0508 IDC (InterDigitated Capacitors)

Very low equivalent series inductance, surface mountable, high speed decoupling capacitor. Measured inductances of 120pH (for 0612) and 95 pH (for 0508) are the lowest in the FR4 mountable device family. Opposing current flow creates opposing magnetic fields. This causes the fields to cancel, effectively reducing the equivalent series inductance. Perfect solution for decoupling high speed microprocessors by allowing the engineers to lower the power delivery inductance of the entire system through the use of eight terminals. Overall reduction in decoupling components due to very low series inductance and high capacitance.

Characteristics:

- Temperature Coefficient: ±15% (OVDC) • Dissipation Factor: 4V and 6.3V=6.5% Maximum, 10V=5.0% Maximum, 16V=3.5% Maximum • Insulation ppm/C): 12.0 • Thermal Conductivity: 4-5W/M K • Terminations Available: Plated Nickel and Solder • Maximum Thickness: 0.037" (0.95mm)
- Operating Temperature: **X7R:** -55°C ~ 125°C, **X5R:** -55°C ~ 85°C

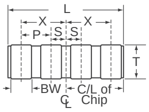

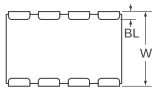

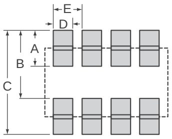

Dimensions (mm.)

Series	A	B	C	D	E	L	T	W	BW	BL	P	X	S
0508	0.64	1.27	1.91	0.28	0.51	2.03 ±0.20	0.965 Max.	1.27 ±0.20	0.254 ±0.10	0.18 +0.25/-0.08	0.508 REF	0.76 ±0.10	0.254 ±0.10
0612	0.89	1.65	2.54	0.46	0.76	3.20 ±0.20	1.22 Max.	1.60 ±0.20	0.41 ±0.10	0.18 +0.25/-0.08	0.76 REF	1.14 ±0.10	0.38 ±0.10

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance %	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		AVX Part No.
						10	100	500		Size	Pricing	
0508	X7R	16V	47000pF	±20%	478-2326-1-ND	3.52	2.08	1.20	478-2326-2-ND	4,000	576.00/M	W2L1YC473MAT1S
		16V	68000pF	±20%	478-2327-1-ND	3.52	2.08	1.20	478-2327-2-ND	4,000	576.00/M	W2L1YC683MAT1S
		16V	.1µF	±20%	478-2121-1-ND	3.63	2.15	1.24	478-2121-2-ND	4,000	594.00/M	W2L1YC104MAT1A
		16V	.22µF	±20%	478-2329-1-ND	3.96	2.34	1.35	478-2329-2-ND	4,000	648.00/M	W2L1YC224MAT1A
		10V	.1µF	±20%	478-2122-1-ND	3.63	2.15	1.24	478-2122-2-ND	4,000	594.00/M	W2L1ZC104MAT1S
		10V	.22µF	±20%	478-2328-1-ND	3.85	2.28	1.32	478-2328-2-ND	4,000	630.00/M	W3L1ZC224MAT1A
		10V	.47µF	±20%	478-2123-1-ND	3.85	2.28	1.32	478-2123-2-ND	4,000	630.00/M	W2L1ZC474MAT1A
		4.0V	.33µF	±20%	478-2330-1-ND	4.29	2.54	1.47	478-2330-2-ND	4,000	702.00/M	W2L14C334MAT1A
		4.0V	1.0µF	±20%	478-2126-1-ND	4.29	2.54	1.47	478-2126-2-ND	4,000	702.00/M	W2L14C105MAT1A
	X5R	10V	.33µF	±20%	478-2331-1-ND	4.18	2.47	1.43	478-2331-2-ND	4,000	684.00/M	W2L1ZD334MAT1S
		10V	.47µF	±20%	478-2124-1-ND	3.85	2.28	1.32	478-2124-2-ND	4,000	630.00/M	W2L1ZD474MAT1S
		6.3V	1.0µF	±20%	478-2125-1-ND	4.40	2.60	1.50	478-2125-2-ND	4,000	720.00/M	W2L16D105MAT1A
		4.0V	1.5µF	±20%	478-2127-1-ND	3.85	2.28	1.32	478-2127-2-ND	4,000	630.00/M	W2L14D155MAT1A
0612	X7R	16V	.22µF	±20%	478-2335-1-ND	3.85	2.28	1.32	478-2335-2-ND	4,000	630.00/M	W3L1YC224MAT1S
		16V	.33µF	±20%	478-2334-1-ND	3.96	2.34	1.35	478-2334-2-ND	4,000	648.00/M	W3L1YC334MAT1A
		16V	.47µF	±20%	478-2128-1-ND	4.09	2.42	1.40	478-2128-2-ND	4,000	667.80/M	W3L1YC474MAT1A
		10V	.68µF	±20%	478-2333-1-ND	4.24	2.51	1.45	478-2333-2-ND	2,000	693.00/M	W3L1ZC684MAT1A
		10V	1.0µF	±20%	478-2129-1-ND	4.62	2.73	1.58	478-2129-2-ND	2,000	756.00/M	W3L1ZC105MAT1A
		4.0V	2.2µF	±20%	478-2131-1-ND	4.95	2.93	1.69	478-2131-2-ND	2,000	810.00/M	W3L14C225MAT1A
	X5R	10V	2.2µF	±20%	478-2332-1-ND	4.62	2.73	1.58	478-2332-2-ND	4,000	756.00/M	W3L1ZD225MAT1A
		6.3V	2.2µF	±20%	478-2130-1-ND	4.95	2.93	1.69	478-2130-2-ND	4,000	810.00/M	W3L16D225MAT1A
		4.0V	3.3µF	±20%	478-2132-1-ND	4.95	2.93	1.69	478-2132-2-ND	4,000	810.00/M	W3L14D335MAT1A

AVX Low Inductance Capacitors

The total inductance of a chip capacitor is determined both by its length to width ratio and by the mutual inductance coupling between its electrodes. Thus a 1210 chip size has a lower inductance than a 1206 chip. This design improvement is the basis of AVX's Low Inductance Chip Capacitors (LICC), where the electrodes are terminated on the long side of the chip instead of the short side. The 1206 becomes a 0612, in the same manner, a 0805 becomes a 0508, a 0603 becomes a 0306. This results in a reduction in inductance for the 1nH range found in normal chip capacitors to less tan 0.2nH for LICC's. Their low profile is also ideal for surface mounting (both on the PCB and on the IC package) or inside cavity mounting on the IC itself.

Characteristics:
- **Operating Temperature Range:** X7R: -55°C ~ 125°C, X5R: -55°C ~ 85°C • **Temperature Coefficient:** ±15% (0VDC) • **Dissipation Factor:** 10V = 5.0% maximum; 16V = 3.5% maximum; 25V = 3.0% maximum
- **Insulation Resistance (@ 25°C RVDC):** 100,000MΩ minimum or 1,000MΩ per uF whichever is less.

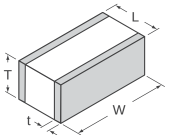

Dimensions Inch (mm)			
Size Code	**L**	**W**	**t**
0306	0.032 ± 0.006 (0.81 ± 0.15)	0.063 ± 0.006 (1.60 ± 0.15)	0.005 min. (0.13 min.)
0508	0.050 ± 0.010 (1.27 ± 0.25)	0.080 ± 0.010 (2.00 ± 0.25)	0.005 min. (0.13 min.)
0612	0.063 ± 0.010 (1.60 ± 0.25)	0.126 ± 0.010 (3.20 ± 0.25)	0.005 min. (0.13 min.)

Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	Dimension T Inch (mm)	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	AVX Part No.
0306	X7R	25V	10,000pF	± 10%	0.024 (0.61)	478-2890-1-ND	24.64	145.60	420.00	478-2890-2-ND	5,000	403.00/M	03063C103KAT2A
		10V	.10uF	± 10%	0.024 (0.61)	478-2891-1-ND	26.95	159.25	459.38	478-2891-2-ND	5,000	441.00/M	0306ZC104KAT2A
		10V	.10uF	± 20%	0.024 (0.61)	478-2892-1-ND	26.95	159.25	459.38	478-2892-2-ND	5,000	441.00/M	0306ZC104MAT2A
		10V	.22uF	± 20%	0.024 (0.61)	478-2893-1-ND	26.95	159.25	459.38	478-2893-2-ND	5,000	441.00/M	0306ZC224MAT2A
0508	X7R	50V	10,000pF	± 10%	0.040 (1.02)	478-2894-1-ND	23.10	136.50	393.75	478-2894-2-ND	4,000	378.00/M	05085C103KAT2A
		50V	10,000pF	± 20%	0.040 (1.02)	478-2895-1-ND	22.00	130.00	375.00	478-2895-2-ND	4,000	360.00/M	05085C103MAT2A
		50V	22,000pF	± 20%	0.040 (1.02)	478-2896-1-ND	22.55	133.25	384.38	478-2896-2-ND	4,000	369.00/M	05085C223MAT2A
		50V	.10uF	± 10%	0.040 (1.02)	478-2897-1-ND	26.40	156.00	450.00	478-2897-2-ND	4,000	432.00/M	05085C104KAT2A
		50V	.10uF	± 20%	0.040 (1.02)	478-2898-1-ND	25.30	149.50	431.25	478-2898-2-ND	4,000	414.00/M	05085C104MAT2A
		10V	1.0uF	± 10%	0.040 (1.02)	478-2899-1-ND	45.10	266.50	768.75	478-2899-2-ND	4,000	738.00/M	0508ZC105KAT2A
0612	X7R	50V	10,000pF	± 10%	0.050 (1.27)	478-2900-1-ND	30.80	182.00	525.00	478-2900-2-ND	4,000	504.00/M	06125C103KAT2A
		50V	.10uF	± 20%	0.050 (1.27)	478-2901-1-ND	33.00	195.00	562.50	478-2901-2-ND	4,000	540.00/M	06125C104MAT2A
		25V	.22uF	± 10%	0.050 (1.27)	478-2902-1-ND	39.60	234.00	675.00	478-2902-2-ND	4,000	648.00/M	06123C224KAT2A
		16V	1.0uF	± 10%	0.050 (1.27)	478-2903-1-ND	42.90	253.50	731.25	478-2903-2-ND	2,000	702.00/M	0612YC105KAT2A
		16V	1.0uF	± 20%	0.050 (1.27)	478-2904-1-ND	42.90	253.50	731.25	478-2904-2-ND	2,000	702.00/M	0612YC105MAT2A
		10V	.68uF	± 20%	0.030 (0.76)	478-2907-1-ND	44.00	260.00	750.00	478-2907-2-ND	4,000	720.00/M	0612ZC105MAT2V
		10V	2.2uF	± 10%	0.050 (1.27)	478-2906-1-ND	42.90	253.50	731.25	478-2906-2-ND	2,000	702.00/M	0612ZC225KAT2A
	X5R	10V	1.0uF	± 20%	0.050 (1.27)	478-2905-1-ND	33.00	195.00	562.50	478-2905-2-ND	4,000	540.00/M	0612ZD684MAT2V

Multi-Layer Ceramic Chip Capacitor Arrays

AVX capacitor arrays offer designers the opportunity to lower placement costs, increase assembly line output through lower component count per board, and to reduce real estate requirements.

C0G (NP0) Dielectric:
- EIA Class I ceramic materials • C0G (NP0) ceramics offer one of the most stable capacitor dielectrics available
- Capacitance change with temperature is 0 ±30ppm/°C, which is less than ±0.3% Δ C from -55°C ~ 125°C • Operating Temperature Range: -55°C ~ 125°C

X7R Dielectric:
- X7R formulations are called "temperature stable" ceramics and fall into EIA Class II materials • Its temperature variation of capacitance is within ±15% from -55°C ~ 125°C • Operating Temperature Range: -55°C ~ 125°C

X5R Dielectric:
- General purpose dielectric for ceramic capacitors • EIA Class II dielectric • Temperature variation of capacitance is within ±15% from -55°C ~ 85°C • Operating Temperature Range: -55°C ~ 85°C

Fig. 1

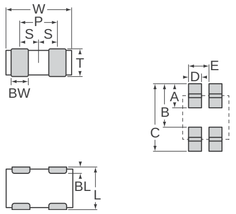

Fig. 2

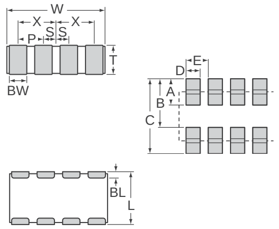

Dimensions Inch (mm)													
Size Code	**Element**	**A**	**B**	**C**	**D**	**E**	**L**	**W**	**T**	**BW**	**BL**	**P**	**X**	**S**
0405	2	0.018 (0.46)	0.029 (0.74)	0.047 (1.20)	0.012 (0.30)	0.025 (0.64)	0.039 ± 0.006 (1.00 ± 0.15)	0.054 ± 0.006 (1.37 ± 0.15)	0.026 Max. (0.66 Max.)	0.014 ± 0.004 (0.36 ± 0.10)	0.008 ± 0.004 (0.20 ± 0.10)	0.025 REF (0.64 REF)	— —	0.013 0.004 (0.32 ± 0.10)
0508	4	0.022 (0.56)	0.052 (1.32)	0.074 (1.88)	0.012 (0.30)	0.020 (0.50)	0.051 ± 0.006 (1.30 ± 0.15)	0.083 ± 0.006 (2.10 ± 0.15)	0.037 Max. (0.94 Max.)	0.010 ± 0.003 (0.25 ± 0.06)	0.008 ± 0.003 (0.20 ± 0.08)	0.020 REF (0.50 REF)	0.030 ± 0.004 (0.75 ± 0.10)	0.010 ± 0.004 (0.25 ± 0.10)
0612	4	0.035 (0.89)	0.065 (1.65)	0.100 (2.54)	0.018 (0.46)	0.031 (0.79)	0.063 ± 0.008 (1.60 ± 0.20)	0.126 ± 0.008 (3.20 ± 0.20)	0.053 Max. (1.35 Max.)	0.016 ± 0.004 (0.41 ± 0.10)	0.007 $^{+0.010}_{-0.003}$ (0.18 $^{+0.25}_{-0.08}$)	0.030 REF (0.76 REF)	0.045 ± 0.004 (1.14 ± 0.10)	0.015 ± 0.004 (0.38 ± 0.10)

Fig.	Size Code	Type	WV DC	Capacitance	Capacitance Tolerance	No. of Elements/Array	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	Digi-Key Part No.	Tape and Reel Pricing 4,000	AVX Part No.
1	0405	X7R	50	1,000pF	± 20%	2	478-2886-1-ND	7.15	42.25	121.88	478-2886-2-ND	117.00/M	W1A25C102MAT2A
		X5R	10	.10uF	± 20%	2	478-2884-1-ND	6.38	37.70	108.75	478-2884-2-ND	104.00/M	W1A2ZD104MAT2A
2	0508	C0G(NP0)	100	22pF	± 10%	4	478-2888-1-ND	6.60	39.00	112.50	478-2888-2-ND	108.00/M	W2A41A220KAT2A
			100	33pF	± 10%	4	478-2887-1-ND	6.60	39.00	112.50	478-2887-2-ND	108.00/M	W2A41A330KAT2A
			100	100pF	± 10%	4	478-2885-1-ND	6.60	39.00	112.50	478-2885-2-ND	108.00/M	W2A41A101KAT2A
		X7R	10	.10uF	± 20%	4	478-2870-1-ND	6.60	39.00	112.50	478-2870-2-ND	108.00/M	W2A4ZC104MAT2A
			50	10,000pF	± 20%	4	478-2873-1-ND	5.39	31.85	91.88	478-2873-2-ND	88.00/M	W2A45C103MAT2A
			50	10,000pF	± 10%	4	478-2878-1-ND	6.71	39.65	114.38	478-2878-2-ND	110.00/M	W2A45C103KAT2A
			100	470pF	± 20%	4	478-2880-1-ND	6.38	37.70	108.75	478-2880-2-ND	104.00/M	W2A41C471MAT2A
		X5R	10	.10uF	± 20%	4	478-2883-1-ND	6.82	40.30	116.25	478-2883-2-ND	112.00/M	W2A4ZD104MAT2A
			10	.10uF	± 10%	4	478-2875-1-ND	7.15	42.25	121.88	478-2875-2-ND	117.00/M	W2A4ZD104KAT2A
	0612	C0G(NP0)	100	22pF	± 10%	4	478-2881-1-ND	4.73	27.95	80.63	478-2881-2-ND	77.00/M	W3A41A220KAT2A
			100	47pF	± 10%	4	478-2872-1-ND	4.73	27.95	80.63	478-2872-2-ND	77.00/M	W3A41A470KAT2A
			100	100pF	± 10%	4	478-2876-1-ND	5.72	33.80	97.50	478-2876-2-ND	94.00/M	W3A41A101KAT2A
			100	220pF	± 10%	4	478-2882-1-ND	4.95	29.25	84.38	478-2882-2-ND	81.00/M	W3A41A221KAT2A
		X7R	16	.10uF	± 20%	4	478-2869-1-ND	7.70	45.50	131.25	478-2869-2-ND	126.00/M	W3A4YC104MAT2A
			16	.10uF	± 10%	4	478-2879-1-ND	7.70	45.50	131.25	478-2879-2-ND	126.00/M	W3A4YC104KAT2A
			50	10,000pF	± 10%	4	478-2877-1-ND	6.60	39.00	112.50	478-2877-2-ND	108.00/M	W3A45C103KAT2A
			100	1,000pF	± 20%	4	478-2874-1-ND	5.72	33.80	97.50	478-2874-2-ND	94.00/M	W3A41C102MAT2A
			100	10,000pF	± 20%	4	478-2871-1-ND	4.95	29.25	84.38	478-2871-2-ND	81.00/M	W3A41C103MAT2A

KEMET CHARGED.

Multilayer Ceramic Chip Capacitors

RoHS COMPLIANT

Size Code (EIA)	L	W	B
0402	1.00±0.05	0.50±0.05	0.20 – 0.40
0603	1.60±0.15	0.80±0.15	0.35±0.15
0805	2.00±0.20	1.25±0.20	0.50±0.25
1206	3.20±0.20	1.60±0.20	0.50±0.25
1210	3.20±0.20	2.50±0.20	0.50±0.25
1808	4.50±0.30	2.00±0.20	0.60±0.35
1812	4.50±0.30	3.20±0.30	0.60±0.35
1825	4.50±0.30	6.40±0.40	0.60±0.35
2225	5.60±0.40	6.40±0.40	0.60±0.35

KEMET multilayer ceramic chip capacitors are produced in plants designed specifically for chip capacitor manufacture. The process features a high degree of mechanization as well as precise controls over raw materials and process conditions.

Manufacturing is supplemented by extensive technology, Engineering and Quality Assurance programs. Standard end terminations use a nickel barrier layer and a tin overplate to provide excellent solderability.

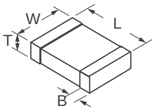

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							10	100	500		Size	Pricing	
0402	C0G (NP0)	50	.5pF	±0.25pF	0.5	399-1000-1-ND	3.88	22.95	66.19	399-1000-2-ND	10,000	64.00/M	C0402C508C5GACTU
		50	1.2pF	±0.25pF	0.5	399-1001-1-ND	.61	3.58	10.31	399-1001-2-ND	10,000	10.00/M	C0402C129C5GACTU
		50	1.5pF	±0.25pF	0.5	399-1002-1-ND	.61	3.58	10.31	399-1002-2-ND	10,000	10.00/M	C0402C159C5GACTU
		50	1.8pF	±0.25pF	0.5	399-1003-1-ND	.61	3.58	10.31	399-1003-2-ND	10,000	10.00/M	C0402C189C5GACTU
		50	2.0pF	±0.25pF	0.5	399-1004-1-ND	4.09	24.18	69.75	399-1004-2-ND	10,000	67.00/M	C0402C209C5GACTU
		50	2.7pF	±0.25pF	0.5	399-1005-1-ND	.61	3.58	10.31	399-1005-2-ND	10,000	10.00/M	C0402C279C5GACTU
		50	3.0pF	±0.25pF	0.5	399-1006-1-ND	4.09	24.18	69.75	399-1006-2-ND	10,000	67.00/M	C0402C309C5GACTU
		50	3.3pF	±0.25pF	0.5	399-1007-1-ND	.61	3.58	10.31	399-1007-2-ND	10,000	10.00/M	C0402C339C5GACTU
		50	5.6pF	±0.5pF	0.5	399-1008-1-ND	3.41	20.15	58.13	399-1008-2-ND	10,000	56.00/M	C0402C569D5GACTU
		50	8.2pF	±0.5pF	0.5	399-1009-1-ND	3.41	20.15	58.13	399-1009-2-ND	10,000	56.00/M	C0402C829D5GACTU
		50	9.1pF	±0.5pF	0.5	399-1010-1-ND	4.09	24.18	69.75	399-1010-2-ND	10,000	67.00/M	C0402C919D5GACTU
		50	10pF	±5%	0.5	399-1011-1-ND	.24	1.43	4.13	399-1011-2-ND	10,000	4.00/M	C0402C100J5GACTU
		50	11pF	±5%	0.5	399-1012-1-ND	4.62	27.30	78.75	399-1012-2-ND	10,000	76.00/M	C0402C110J5GACTU
		50	12pF	±5%	0.5	399-1013-1-ND	.53	3.12	9.00	399-1013-2-ND	10,000	9.00/M	C0402C120J5GACTU
		50	15pF	±5%	0.5	399-1014-1-ND	.24	1.43	4.13	399-1014-2-ND	10,000	4.00/M	C0402C150J5GACTU
		50	22pF	±5%	0.5	399-1015-1-ND	.24	1.43	4.13	399-1015-2-ND	10,000	4.00/M	C0402C220J5GACTU
		50	27pF	±5%	0.5	399-1016-1-ND	.24	1.43	4.13	399-1016-2-ND	10,000	4.00/M	C0402C270J5GACTU
		50	33pF	±5%	0.5	399-1017-1-ND	.24	1.43	4.13	399-1017-2-ND	10,000	4.00/M	C0402C330J5GACTU
		50	39pF	±5%	0.5	399-1018-1-ND	.24	1.43	4.13	399-1018-2-ND	10,000	4.00/M	C0402C390J5GACTU
		50	47pF	±5%	0.5	399-1019-1-ND	.24	1.43	4.13	399-1019-2-ND	10,000	4.00/M	C0402C470J5GACTU
		50	56pF	±5%	0.5	399-1020-1-ND	.24	1.43	4.13	399-1020-2-ND	10,000	4.00/M	C0402C560J5GACTU
		50	75pF	±5%	0.5	399-3191-1-ND	4.62	27.30	78.75	399-3191-2-ND	10,000	76.00/M	C0402C750J5GACTU
		50	82pF	±5%	0.5	399-3192-1-ND	3.85	22.75	65.63	399-3192-2-ND	10,000	63.00/M	C0402C820J5GACTU
		50	91pF	±5%	0.5	399-3193-1-ND	4.62	27.30	78.75	399-3193-2-ND	10,000	76.00/M	C0402C910J5GACTU
		50	100pF	±5%	0.5	399-3194-1-ND	.24	1.43	4.13	399-3194-2-ND	10,000	4.00/M	C0402C101J5GACTU
		25	82pF	±5%	0.5	399-1021-1-ND	3.85	22.75	65.63	399-1021-2-ND	10,000	63.00/M	C0402C820J3GACTU
		25	100pF	±5%	0.5	399-1022-1-ND	.24	1.43	4.13	399-1022-2-ND	10,000	4.00/M	C0402C101J3GACTU
	X7R	50	220pF	±10%	0.5	399-1030-1-ND	.26	1.56	4.50	399-1030-2-ND	10,000	4.00/M	C0402C221K5RACTU
		50	330pF	±10%	0.5	399-1023-1-ND	4.07	24.05	69.38	399-1023-2-ND	10,000	67.00/M	C0402C331K5RACTU
		50	470pF	±10%	0.5	399-1025-1-ND	.21	1.24	3.56	399-1025-2-ND	10,000	3.00/M	C0402C471K5RACTU
		50	560pF	±10%	0.5	399-1026-1-ND	.73	4.29	12.38	399-1026-2-ND	10,000	12.00/M	C0402C561K5RACTU
		50	680pF	±10%	0.5	399-1027-1-ND	.28	1.63	4.69	399-1027-2-ND	10,000	5.00/M	C0402C681K5RACTU
		50	1000pF	±10%	0.5	399-1032-1-ND	.20	1.17	3.38	399-1032-2-ND	10,000	3.00/M	C0402C102K5RACTU
		50	1200pF	±10%	0.5	399-1028-1-ND	.73	4.29	12.38	399-1028-2-ND	10,000	12.00/M	C0402C122K5RACTU
		50	1500pF	±10%	0.5	399-1029-1-ND	.33	1.95	5.63	399-1029-2-ND	10,000	5.00/M	C0402C152K5RACTU
		50	1800pF	±10%	0.5	399-3067-1-ND	4.07	24.05	69.38	399-3067-2-ND	10,000	67.00/M	C0402C182K5RACTU
		50	2200pF	±10%	0.5	399-3068-1-ND	.23	1.37	3.94	399-3068-2-ND	10,000	4.00/M	C0402C222K5RACTU
		50	2700pF	±10%	0.5	399-3069-1-ND	.39	2.28	6.56	399-3069-2-ND	10,000	6.00/M	C0402C272K5RACTU
		50	3300pF	±10%	0.5	399-3070-1-ND	.31	1.82	5.25	399-3070-2-ND	10,000	5.00/M	C0402C332K5RACTU
		50	3900pF	±10%	0.5	399-3071-1-ND	.30	1.76	5.06	399-3071-2-ND	10,000	5.00/M	C0402C392K5RACTU
		50	4700pF	±10%	0.5	399-3072-1-ND	.22	1.30	3.75	399-3072-2-ND	10,000	4.00/M	C0402C472K5RACTU
		50	5600pF	±10%	0.5	399-3073-1-ND	2.44	14.43	41.63	399-3073-2-ND	10,000	40.00/M	C0402C562K5RACTU
		50	6800pF	±10%	0.5	399-3074-1-ND	2.44	14.43	41.63	399-3074-2-ND	10,000	40.00/M	C0402C682K5RACTU
		50	8200pF	±10%	0.5	399-3075-1-ND	2.44	14.43	41.63	399-3075-2-ND	10,000	40.00/M	C0402C822K5RACTU
		50	10000pF	±10%	0.5	399-3066-1-ND	.24	1.43	4.13	399-3066-2-ND	10,000	4.00/M	C0402C103K5RACTU
		25	470pF	±10%	0.5	399-1024-1-ND	4.07	24.05	69.38	399-1024-2-ND	10,000	67.00/M	C0402C471K3RACTU
		25	1000pF	±10%	0.5	399-1031-1-ND	.20	1.17	3.38	399-1031-2-ND	10,000	3.00/M	C0402C102K3RACTU
		25	2200pF	±10%	0.5	399-1033-1-ND	.63	3.71	10.69	399-1033-2-ND	10,000	10.00/M	C0402C222K3RACTU
		25	3900pF	±10%	0.5	399-1034-1-ND	.55	3.25	9.38	399-1034-2-ND	10,000	9.00/M	C0402C392K3RACTU
		25	4700pF	±10%	0.5	399-1035-1-ND	.23	1.37	3.94	399-1035-2-ND	10,000	4.00/M	C0402C472K3RACTU
		25	5600pF	±10%	0.5	399-1276-1-ND	.33	1.95	5.63	399-1276-2-ND	10,000	5.00/M	C0402C562K3RACTU
		25	8200pF	±10%	0.5	399-1277-1-ND	2.44	14.43	41.63	399-1277-2-ND	10,000	40.00/M	C0402C822K3RACTU
		25	10000pF	±5%	0.5	399-1279-1-ND	.33	1.95	5.63	399-1279-2-ND	10,000	5.00/M	C0402C103J3RACTU
		25	10000pF	±10%	0.5	399-1278-1-ND	.20	1.17	3.38	399-1278-2-ND	10,000	3.00/M	C0402C103K3RACTU
		16	5600pF	±10%	0.5	399-1036-1-ND	4.07	24.05	69.38	399-1036-2-ND	10,000	67.00/M	C0402C562K4RACTU
		16	8200pF	±10%	0.5	399-1037-1-ND	4.07	24.05	69.38	399-1037-2-ND	10,000	67.00/M	C0402C822K4RACTU
		16	10000pF	±5%	0.5	399-1039-1-ND	5.39	31.85	91.88	399-1039-2-ND	10,000	88.00/M	C0402C103J4RACTU
		16	10000pF	±10%	0.5	399-1038-1-ND	.20	1.17	3.38	399-1038-2-ND	10,000	3.00/M	C0402C103K4RACTU
		16	22000pF	±10%	0.5	399-3518-1-ND	4.29	25.35	73.13	399-3518-2-ND	10,000	70.00/M	C0402C223K4RACTU
		16	47000pF	±10%	0.5	399-3519-1-ND	4.29	25.35	73.13	399-3519-2-ND	10,000	70.00/M	C0402C473K4RACTU
		16	.1µF	±10%	0.5	399-3521-1-ND	.26	1.56	4.50	399-3521-2-ND	10,000	4.00/M	C0402C104K4RACTU
		10	.1µF	±10%	0.5	399-3520-1-ND	.26	1.56	4.50	399-3520-2-ND	10,000	4.00/M	C0402C104K8RACTU
	X5R	10	12000pF	±10%	0.5	399-3009-1-ND	2.31	13.65	39.38	399-3009-2-ND	10,000	38.00/M	C0402C123K8PACTU
		10	15000pF	±10%	0.5	399-3011-1-ND	2.31	13.65	39.38	399-3011-2-ND	10,000	38.00/M	C0402C153K8PACTU
		10	18000pF	±10%	0.5	399-3013-1-ND	2.31	13.65	39.38	399-3013-2-ND	10,000	38.00/M	C0402C183K8PACTU
		10	22000pF	±10%	0.5	399-3015-1-ND	2.42	14.30	41.25	399-3015-2-ND	10,000	40.00/M	C0402C223K8PACTU
		10	27000pF	±10%	0.5	399-3017-1-ND	2.42	14.30	41.25	399-3017-2-ND	10,000	40.00/M	C0402C273K8PACTU
		10	33000pF	±10%	0.5	399-3019-1-ND	2.53	14.95	43.13	399-3019-2-ND	10,000	41.00/M	C0402C333K8PACTU
		10	47000pF	±10%	0.5	399-3021-1-ND	2.64	15.60	45.00	399-3021-2-ND	10,000	43.00/M	C0402C473K8PACTU
		10	68000pF	±10%	0.5	399-3023-1-ND	2.75	16.25	46.88	399-3023-2-ND	10,000	45.00/M	C0402C683K8PACTU
		10	.1µF	±10%	0.5	399-3027-1-ND	.24	1.43	4.13	399-3027-2-ND	10,000	4.00/M	C0402C104K8PACTU
		6.3	12000pF	±10%	0.5	399-3008-1-ND	2.31	13.65	39.38	399-3008-2-ND	10,000	38.00/M	C0402C123K9PACTU
		6.3	15000pF	±10%	0.5	399-3010-1-ND	2.31	13.65	39.38	399-3010-2-ND	10,000	38.00/M	C0402C153K9PACTU
		6.3	18000pF	±10%	0.5	399-3012-1-ND	2.31	13.65	39.38	399-3012-2-ND	10,000	38.00/M	C0402C183K9PACTU
		6.3	22000pF	±10%	0.5	399-3014-1-ND	2.42	14.30	41.25	399-3014-2-ND	10,000	40.00/M	C0402C223K9PACTU
		6.3	27000pF	±10%	0.5	399-3016-1-ND	2.42	14.30	41.25	399-3016-2-ND	10,000	40.00/M	C0402C273K9PACTU
		6.3	33000pF	±10%	0.5	399-3018-1-ND	2.53	14.95	43.13	399-3018-2-ND	10,000	41.00/M	C0402C333K9PACTU
		6.3	47000pF	±10%	0.5	399-3020-1-ND	2.64	15.60	45.00	399-3020-2-ND	10,000	43.00/M	C0402C473K9PACTU
		6.3	68000pF	±10%	0.5	399-3022-1-ND	2.75	16.25	46.88	399-3022-2-ND	10,000	45.00/M	C0402C683K9PACTU
		6.3	.1µF	±10%	0.5	399-3026-1-ND	.44	2.60	7.50	399-3026-2-ND	10,000	7.00/M	C0402C104K9PACTU
0603	C0G (NP0)	50	.5pF	±0.25pF	0.8	399-1044-1-ND	4.88	28.86	83.25	399-1044-2-ND	4,000	80.00/M	C0603C508C5GACTU
		50	1.0pF	±0.25pF	0.8	399-1045-1-ND	4.07	24.05	69.38	399-1045-2-ND	4,000	67.00/M	C0603C109C5GACTU
		50	1.5pF	±0.25pF	0.8	399-1046-1-ND	4.07	24.05	69.38	399-1046-2-ND	4,000	67.00/M	C0603C159C5GACTU
		50	2.0pF	±0.25pF	0.8	399-1047-1-ND	4.88	28.86	83.25	399-1047-2-ND	4,000	80.00/M	C0603C209C5GACTU
		50	3.0pF	±0.25pF	0.8	399-1048-1-ND	4.88	28.86	83.25	399-1048-2-ND	4,000	80.00/M	C0603C309C5GACTU
		50	10pF	±5%	0.8	399-1049-1-ND	.28	1.63	4.69	399-1049-2-ND	4,000	5.00/M	C0603C100J5GACTU
		50	12pF	±5%	0.8	399-1050-1-ND	.39	2.28	6.56	399-1050-2-ND	4,000	6.00/M	C0603C120J5GACTU
		50	15pF	±5%	0.8	399-1051-1-ND	.36	2.15	6.19	399-1051-2-ND	4,000	6.00/M	C0603C150J5GACTU
		50	18pF	±5%	0.8	399-1052-1-ND	.36	2.15	6.19	399-1052-2-ND	4,000	6.00/M	C0603C180J5GACTU
		50	22pF	±5%	0.8	399-1053-1-ND	.36	2.15	6.19	399-1053-2-ND	4,000	6.00/M	C0603C220J5GACTU
		50	27pF	±5%	0.8	399-1054-1-ND	.36	2.15	6.19	399-1054-2-ND	4,000	6.00/M	C0603C270J5GACTU
		50	33pF	±5%	0.8	399-1055-1-ND	.33	1.95	5.63	399-1055-2-ND	4,000	5.00/M	C0603C330J5GACTU
		50	47pF	±5%	0.8	399-1056-1-ND	.39	2.28	6.56	399-1056-2-ND	4,000	6.00/M	C0603C470J5GACTU
		50	56pF	±5%	0.8	399-1057-1-ND	.29	1.69	4.88	399-1057-2-ND	4,000	5.00/M	C0603C560J5GACTU
		50	68pF	±5%	0.8	399-1058-1-ND	.37	2.21	6.38	399-1058-2-ND	4,000	6.00/M	C0603C680J5GACTU

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Kemet Part No.
							10	100	500		Size	Pricing	
0603	C0G (NP0)	50	82pF	±5%	0.8	399-1060-1-ND	.39	2.28	6.56	399-1060-2-ND	4,000	6.00/M	C0603C820J5GACTU
		50	82pF	±10%	0.8	399-1059-1-ND	2.20	13.00	37.50	399-1059-2-ND	4,000	36.00/M	C0603C820K5GACTU
		50	100pF	±5%	0.8	399-1061-1-ND	.26	1.56	4.50	399-1061-2-ND	4,000	4.00/M	C0603C101J5GACTU
		50	120pF	±5%	0.8	399-1062-1-ND	.39	2.28	6.56	399-1062-2-ND	4,000	6.00/M	C0603C121J5GACTU
		50	150pF	±5%	0.8	399-1063-1-ND	.44	2.60	7.50	399-1063-2-ND	4,000	7.00/M	C0603C151J5GACTU
		50	180pF	±5%	0.8	399-1064-1-ND	.97	5.72	16.50	399-1064-2-ND	4,000	16.00/M	C0603C181J5GACTU
		50	220pF	±5%	0.8	399-1066-1-ND	.48	2.86	8.25	399-1066-2-ND	4,000	8.00/M	C0603C221J5GACTU
		50	220pF	±10%	0.8	399-1065-1-ND	2.64	15.60	45.00	399-1065-2-ND	4,000	43.00/M	C0603C221K5GACTU
		50	270pF	±5%	0.8	399-1067-1-ND	.47	2.80	8.06	399-1067-2-ND	4,000	8.00/M	C0603C271J5GACTU
		50	330pF	±5%	0.8	399-1068-1-ND	.54	3.19	9.19	399-1068-2-ND	4,000	9.00/M	C0603C331J5GACTU
		50	390pF	±5%	0.8	399-1069-1-ND	.63	3.71	10.69	399-1069-2-ND	4,000	10.00/M	C0603C391J5GACTU
		50	560pF	±5%	0.8	399-3287-1-ND	.72	4.23	12.19	399-3287-2-ND	4,000	12.00/M	C0603C561J5GACTU
		50	620pF	±5%	0.8	399-3288-1-ND	3.85	22.75	65.63	399-3288-2-ND	4,000	63.00/M	C0603C621J5GACTU
		50	680pF	±5%	0.8	399-3289-1-ND	.61	3.58	10.31	399-3289-2-ND	4,000	10.00/M	C0603C681J5GACTU
		50	750pF	±5%	0.8	399-3290-1-ND	3.96	23.40	67.50	399-3290-2-ND	4,000	65.00/M	C0603C751J5GACTU
		50	820pF	±5%	0.8	399-3291-1-ND	.99	5.85	16.88	399-3291-2-ND	4,000	16.00/M	C0603C821J5GACTU
		50	910pF	±5%	0.8	399-3292-1-ND	4.09	24.18	69.75	399-3292-2-ND	4,000	67.00/M	C0603C911J5GACTU
		50	1000pF	±5%	0.8	399-3293-1-ND	.59	3.51	10.13	399-3293-2-ND	4,000	10.00/M	C0603C102J5GACTU
	X7R	100	5600pF	±10%	0.8	399-3186-1-ND	3.30	19.50	56.25	399-3186-2-ND	4,000	54.00/M	C0603C562K1RACTU
		100	6800pF	±10%	0.8	399-3187-1-ND	3.30	19.50	56.25	399-3187-2-ND	4,000	54.00/M	C0603C682K1RACTU
		100	8200pF	±10%	0.8	399-3188-1-ND	3.30	19.50	56.25	399-3188-2-ND	4,000	54.00/M	C0603C822K1RACTU
		100	10000pF	±5%	0.8	399-3190-1-ND	4.95	29.25	84.38	399-3190-2-ND	4,000	81.00/M	C0603C103J1RACTU
		100	10000pF	±10%	0.8	399-3189-1-ND	3.30	19.50	56.25	399-3189-2-ND	4,000	54.00/M	C0603C103K1RACTU
		100	.012µF	±10%	0.8	399-3473-1-ND	3.30	19.50	56.25	399-3473-2-ND	4,000	54.00/M	C0603C123K1RACTU
		100	.015µF	±10%	0.8	399-3474-1-ND	3.30	19.50	56.25	399-3474-2-ND	4,000	54.00/M	C0603C153K1RACTU
		100	.018µF	±10%	0.8	399-3475-1-ND	3.30	19.50	56.25	399-3475-2-ND	4,000	54.00/M	C0603C183K1RACTU
		100	.022µF	±10%	0.8	399-3476-1-ND	3.30	19.50	56.25	399-3476-2-ND	4,000	54.00/M	C0603C223K1RACTU
		100	.027µF	±10%	0.8	399-3477-1-ND	3.30	19.50	56.25	399-3477-2-ND	4,000	54.00/M	C0603C273K1RACTU
		100	.033µF	±10%	0.8	399-3478-1-ND	3.30	19.50	56.25	399-3478-2-ND	4,000	54.00/M	C0603C333K1RACTU
		100	.039µF	±10%	0.8	399-3479-1-ND	3.30	19.50	56.25	399-3479-2-ND	4,000	54.00/M	C0603C393K1RACTU
		50	220pF	±10%	0.8	399-1071-1-ND	.42	2.47	7.13	399-1071-2-ND	4,000	7.00/M	C0603C221K5RACTU
		50	220pF	±20%	0.8	399-1070-1-ND	2.75	16.25	46.88	399-1070-2-ND	4,000	45.00/M	C0603C221M5RACTU
		50	270pF	±10%	0.8	399-1072-1-ND	2.86	16.90	48.75	399-1072-2-ND	4,000	47.00/M	C0603C271K5RACTU
		50	330pF	±10%	0.8	399-1073-1-ND	.47	2.80	8.06	399-1073-2-ND	4,000	8.00/M	C0603C331K5RACTU
		50	390pF	±10%	0.8	399-1074-1-ND	2.86	16.90	48.75	399-1074-2-ND	4,000	47.00/M	C0603C391K5RACTU
		50	470pF	±10%	0.8	399-1075-1-ND	.66	3.90	11.25	399-1075-2-ND	4,000	11.00/M	C0603C471K5RACTU
		50	560pF	±10%	0.8	399-1076-1-ND	2.86	16.90	48.75	399-1076-2-ND	4,000	47.00/M	C0603C561K5RACTU
		50	680pF	±10%	0.8	399-1077-1-ND	.43	2.54	7.31	399-1077-2-ND	4,000	7.00/M	C0603C681K5RACTU
		50	820pF	±10%	0.8	399-1078-1-ND	.46	2.73	7.88	399-1078-2-ND	4,000	8.00/M	C0603C821K5RACTU
		50	1000pF	±5%	0.8	399-1083-1-ND	.35	2.08	6.00	399-1083-2-ND	4,000	6.00/M	C0603C102J5RACTU
		50	1000pF	±10%	0.8	399-1082-1-ND	.22	1.30	3.75	399-1082-2-ND	4,000	4.00/M	C0603C102K5RACTU
		50	1500pF	±10%	0.8	399-1084-1-ND	.41	2.41	6.94	399-1084-2-ND	4,000	7.00/M	C0603C152K5RACTU
		50	2200pF	±10%	0.8	399-1085-1-ND	.29	1.69	4.88	399-1085-2-ND	4,000	5.00/M	C0603C222K5RACTU
		50	3300pF	±10%	0.8	399-1086-1-ND	.41	2.41	6.94	399-1086-2-ND	4,000	7.00/M	C0603C332K5RACTU
		50	4700pF	±5%	0.8	399-1088-1-ND	.33	1.95	5.63	399-1088-2-ND	4,000	5.00/M	C0603C472J5RACTU
		50	4700pF	±10%	0.8	399-1087-1-ND	.28	1.63	4.69	399-1087-2-ND	4,000	5.00/M	C0603C472K5RACTU
		50	6800pF	±5%	0.8	399-1090-1-ND	4.29	25.35	73.13	399-1090-2-ND	4,000	70.00/M	C0603C682J5RACTU
		50	6800pF	±10%	0.8	399-1089-1-ND	.33	1.95	5.63	399-1089-2-ND	4,000	5.00/M	C0603C682K5RACTU
		50	10000pF	±5%	0.8	399-1092-1-ND	.33	1.95	5.63	399-1092-2-ND	4,000	5.00/M	C0603C103J5RACTU
		50	10000pF	±10%	0.8	399-1091-1-ND	.22	1.30	3.75	399-1091-2-ND	4,000	4.00/M	C0603C103K5RACTU
		50	22000pF	±10%	0.8	399-1280-1-ND	.50	2.93	8.44	399-1280-2-ND	4,000	8.00/M	C0603C223K5RACTU
		25	22000pF	±10%	0.8	399-1094-1-ND	.41	2.41	6.94	399-1094-2-ND	4,000	7.00/M	C0603C223K3RACTU
		25	.10µF	±5%	0.8	399-1282-1-ND	4.62	27.30	78.75	399-1282-2-ND	4,000	76.00/M	C0603C104J3RACTU
		25	.10µF	±10%	0.8	399-1281-1-ND	1.18	6.96	20.06	399-1281-2-ND	4,000	19.00/M	C0603C104K3RACTU
		25	.10µF	±20%	0.8	399-1283-1-ND	3.23	19.11	55.13	399-1283-2-ND	4,000	53.00/M	C0603C104M3RACTU
		16	22000pF	±10%	0.8	399-1093-1-ND	.44	2.60	7.50	399-1093-2-ND	4,000	7.00/M	C0603C223K4RACTU
		16	.10µF	±5%	0.8	399-1097-1-ND	.83	4.88	14.06	399-1097-2-ND	4,000	14.00/M	C0603C104J4RACTU
		16	.10µF	±10%	0.8	399-1096-1-ND	.23	1.37	3.94	399-1096-2-ND	4,000	4.00/M	C0603C104K4RACTU
		16	.10µF	±20%	0.8	399-1099-1-ND	.23	1.37	3.94	399-1099-2-ND	4,000	4.00/M	C0603C104M4RACTU
		10	.10µF	±10%	0.8	399-1095-1-ND	.23	1.37	3.94	399-1095-2-ND	4,000	4.00/M	C0603C104K8RACTU
	X5R	10	.27µF	±10%	0.8	399-3111-1-ND	2.60	15.34	44.25	399-3111-2-ND	4,000	42.00/M	C0603C274K8PACTU
		10	.33µF	±10%	0.8	399-3112-1-ND	2.60	15.34	44.25	399-3112-2-ND	4,000	42.00/M	C0603C334K8PACTU
		10	.39µF	±10%	0.8	399-3113-1-ND	2.60	15.34	44.25	399-3113-2-ND	4,000	42.00/M	C0603C394K8PACTU
		10	.47µF	±10%	0.8	399-3114-1-ND	.94	5.53	15.94	399-3114-2-ND	4,000	15.00/M	C0603C474K8PACTU
		10	.56µF	±10%	0.8	399-3115-1-ND	2.60	15.34	44.25	399-3115-2-ND	4,000	42.00/M	C0603C564K8PACTU
		10	.68µF	±10%	0.8	399-3116-1-ND	2.60	15.34	44.25	399-3116-2-ND	4,000	42.00/M	C0603C684K8PACTU
		10	.82µF	±10%	0.8	399-3117-1-ND	2.60	15.34	44.25	399-3117-2-ND	4,000	42.00/M	C0603C824K8PACTU
		10	1.0µF	±10%	0.8	399-3118-1-ND	1.98	11.70	33.75	399-3118-2-ND	4,000	32.00/M	C0603C105K8PACTU
		6.3	1.2µF	±10%	0.8	399-3359-1-ND	3.03	17.88	51.56	399-3359-2-ND	4,000	50.00/M	C0603C125K9PACTU
		6.3	1.5µF	±10%	0.8	399-3360-1-ND	3.03	17.88	51.56	399-3360-2-ND	4,000	50.00/M	C0603C155K9PACTU
		6.3	1.8µF	±10%	0.8	399-3361-1-ND	3.25	19.18	55.31	399-3361-2-ND	4,000	53.00/M	C0603C185K9PACTU
		6.3	2.2µF	±10%	0.8	399-3362-1-ND	4.40	26.00	75.00	399-3362-2-ND	4,000	72.00/M	C0603C225K9PACTU
		6.3	2.7µF	±10%	0.8	399-3480-1-ND	6.05	35.75	103.13	—	—	—	C0603C275K9PACTU
		6.3	4.7µF	±10%	0.8	399-3482-1-ND	6.05	35.75	103.13	399-3482-2-ND	4,000	99.00/M	C0603C475K9PACTU
	Y5V	25	.10µF	+80%, -20%	0.8	399-1100-1-ND	.20	1.17	3.38	399-1100-2-ND	4,000	3.00/M	C0603C104Z3VACTU
		25	.10µF	±20%	0.8	399-1101-1-ND	.61	3.58	10.31	399-1101-2-ND	4,000	10.00/M	C0603C104M3VACTU
		25	.15µF	+80%, -20%	0.8	399-1290-1-ND	2.90	17.16	49.50	399-1290-2-ND	4,000	48.00/M	C0603C154Z3VACTU
		25	.22µF	+80%, -20%	0.8	399-1103-1-ND	3.10	18.33	52.88	399-1103-2-ND	4,000	51.00/M	C0603C224Z3VACTU
		25	.33µF	+80%, -20%	0.8	399-1292-1-ND	3.41	20.15	58.13	399-1292-2-ND	4,000	56.00/M	C0603C334Z3VACTU
		16	.10µF	+80%, -20%	0.8	399-1098-1-ND	.26	1.56	4.50	399-1098-2-ND	4,000	4.00/M	C0603C104Z4VACTU
		16	.15µF	+80%, -20%	0.8	399-1289-1-ND	2.83	16.71	48.19	399-1289-2-ND	4,000	46.00/M	C0603C154Z4VACTU
		16	.22µF	+80%, -20%	0.8	399-1102-1-ND	.44	2.60	7.50	399-1102-2-ND	4,000	7.00/M	C0603C224Z4VACTU
		16	.33µF	+80%, -20%	0.8	399-1291-1-ND	2.97	17.55	50.63	399-1291-2-ND	4,000	49.00/M	C0603C334Z4VACTU
		10	.47µF	+80%, -20%	0.8	399-3218-1-ND	2.92	17.23	49.69	399-3218-2-ND	4,000	48.00/M	C0603C474Z8VACTU
		10	.68µF	+80%, -20%	1.0	399-3220-1-ND	3.96	23.40	67.50	399-3220-2-ND	4,000	65.00/M	C0603C684Z8VACTU
		10	1µF	+80%, -20%	1.25	399-3216-1-ND	.44	2.60	7.50	399-3216-2-ND	4,000	7.00/M	C0603C105Z8VACTU
		6.3	.47µF	+80%, -20%	0.8	399-3219-1-ND	2.92	17.23	49.69	399-3219-2-ND	4,000	48.00/M	C0603C474Z9VACTU
		6.3	.68µF	+80%, -20%	1.0	399-3221-1-ND	3.96	23.40	67.50	399-3221-2-ND	4,000	65.00/M	C0603C684Z9VACTU
		6.3	1µF	+80%, -20%	1.25	399-3217-1-ND	1.32	7.80	22.50	399-3217-2-ND	4,000	22.00/M	C0603C105Z9VACTU
0805	C0G (NP0)	100	10pF	±5%	0.78	399-1109-1-ND	1.21	7.15	20.63	399-1109-2-ND	4,000	20.00/M	C0805C100J1GACTU
		100	100pF	±5%	0.78	399-1123-1-ND	.68	4.03	11.63	399-1123-2-ND	4,000	11.00/M	C0805C101J1GACTU
		100	220pF	±5%	0.78	399-1128-1-ND	3.08	18.20	52.50	399-1128-2-ND	4,000	50.00/M	C0805C221J1GACTU
		100	330pF	±5%	0.78	399-1131-1-ND	1.21	7.15	20.63	399-1131-2-ND	4,000	20.00/M	C0805C331J1GACTU
		100	1000pF	±5%	0.9	399-1137-1-ND	4.07	24.05	69.38	399-1137-2-ND	4,000	67.00/M	C0805C102J1GACTU
		50	1.0pF	±0.25pF	0.78	399-1104-1-ND	3.85	22.75	65.63	399-1104-2-ND	4,000	63.00/M	C0805C109C5GACTU
		50	1.5pF	±0.25pF	0.78	399-1105-1-ND	3.85	22.75	65.63	399-1105-2-ND	4,000	63.00/M	C0805C159C5GACTU
		50	2.0pF	±0.25pF	0.78	399-1106-1-ND	4.62	27.30	78.75	399-1106-2-ND	4,000	76.00/M	C0805C209C5GACTU
		50	3.0pF	±0.25pF	0.78	399-1107-1-ND	4.62	27.30	78.75	399-1107-2-ND	4,000	76.00/M	C0805C309C5GACTU
		50	10pF	±5%	0.78	399-1108-1-ND	.61	3.58	10.31	399-1108-2-ND	4,000	10.00/M	C0805C100J5GACTU

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Case		WV			Dim. T	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		Kemet
Size	Type	DC	Capacitance	Tolerance	(mm)	Part No.	10	100	500	Part No.	Size	Pricing	Part No.
0805	C0G (NP0)	50	12pF	±5%	0.78	399-1110-1-ND	.80	4.75	13.69	399-1110-2-ND	4,000	13.00/M	C0805C120J5GACTU
		50	15pF	±5%	0.78	399-1111-1-ND	.79	4.68	13.50	399-1111-2-ND	4,000	13.00/M	C0805C150J5GACTU
		50	18pF	±5%	0.78	399-1112-1-ND	.75	4.42	12.75	399-1112-2-ND	4,000	12.00/M	C0805C180J5GACTU
		50	22pF	±5%	0.78	399-1113-1-ND	.97	5.72	16.50	399-1113-2-ND	4,000	16.00/M	C0805C220J5GACTU
		50	27pF	±5%	0.78	399-1114-1-ND	.80	4.75	13.69	399-1114-2-ND	4,000	13.00/M	C0805C270J5GACTU
		50	33pF	±5%	0.78	399-1115-1-ND	.55	3.25	9.38	399-1115-2-ND	4,000	9.00/M	C0805C330J5GACTU
		50	39pF	±5%	0.78	399-1116-1-ND	2.20	13.00	37.50	399-1116-2-ND	4,000	36.00/M	C0805C390J5GACTU
		50	47pF	±5%	0.78	399-1117-1-ND	.55	3.25	9.38	399-1117-2-ND	4,000	9.00/M	C0805C470J5GACTU
		50	56pF	±5%	0.78	399-1118-1-ND	.95	5.59	16.13	399-1118-2-ND	4,000	15.00/M	C0805C560J5GACTU
		50	68pF	±5%	0.78	399-1119-1-ND	.97	5.72	16.50	399-1119-2-ND	4,000	16.00/M	C0805C680J5GACTU
		50	82pF	±5%	0.78	399-1120-1-ND	.91	5.40	15.56	399-1120-2-ND	4,000	15.00/M	C0805C820J5GACTU
		50	100pF	±5%	0.78	399-1122-1-ND	.97	5.72	16.50	399-1122-2-ND	4,000	16.00/M	C0805C101J5GACTU
		50	100pF	±10%	0.78	399-1121-1-ND	.50	2.93	8.44	399-1121-2-ND	4,000	8.00/M	C0805C101K5GACTU
		50	120pF	±5%	0.78	399-1124-1-ND	1.10	6.50	18.75	399-1124-2-ND	4,000	18.00/M	C0805C121J5GACTU
		50	150pF	±5%	0.78	399-1125-1-ND	.65	3.84	11.06	399-1125-2-ND	4,000	11.00/M	C0805C151J5GACTU
		50	180pF	±5%	0.78	399-1126-1-ND	.78	4.62	13.31	399-1126-2-ND	4,000	13.00/M	C0805C181J5GACTU
		50	220pF	±5%	0.78	399-1127-1-ND	1.10	6.50	18.75	399-1127-2-ND	4,000	18.00/M	C0805C221J5GACTU
		50	270pF	±5%	0.78	399-1129-1-ND	2.64	15.60	45.00	399-1129-2-ND	4,000	43.00/M	C0805C271J5GACTU
		50	330pF	±5%	0.78	399-1130-1-ND	.55	3.25	9.38	399-1130-2-ND	4,000	9.00/M	C0805C331J5GACTU
		50	390pF	±5%	0.78	399-1132-1-ND	2.86	16.90	48.75	399-1132-2-ND	4,000	47.00/M	C0805C391J5GACTU
		50	470pF	±5%	0.78	399-1133-1-ND	1.60	9.43	27.19	399-1133-2-ND	4,000	26.00/M	C0805C471J5GACTU
		50	560pF	±5%	0.78	399-1134-1-ND	1.07	6.31	18.19	399-1134-2-ND	4,000	17.00/M	C0805C561J5GACTU
		50	680pF	±5%	0.78	399-1135-1-ND	1.10	6.50	18.75	399-1135-2-ND	4,000	18.00/M	C0805C681J5GACTU
		50	1000pF	±5%	0.78	399-1136-1-ND	.85	5.01	14.44	399-1136-2-ND	4,000	14.00/M	C0805C102J5GACTU
	X7R	100	1000pF	±10%	0.78	399-1148-1-ND	1.05	6.18	17.81	399-1148-2-ND	4,000	17.00/M	C0805C102K1RACTU
		100	10000pF	±10%	0.78	399-1159-1-ND	.43	2.54	7.31	399-1159-2-ND	4,000	7.00/M	C0805C103K1RACTU
		100	.056µF	±10%	1.0	399-3483-1-ND	3.54	20.93	60.38	399-3483-2-ND	2,500	58.00/M	C0805C563K1RACTU
		100	.068µF	±10%	1.0	399-3484-1-ND	3.54	20.93	60.38	399-3484-2-ND	2,500	58.00/M	C0805C683K1RACTU
		100	.082µF	±10%	1.0	399-3485-1-ND	3.54	20.93	60.38	399-3485-2-ND	2,500	58.00/M	C0805C823K1RACTU
		100	.10µF	±10%	1.0	399-3486-1-ND	3.54	20.93	60.38	399-3486-2-ND	2,500	58.00/M	C0805C104K1RACTU
		100	.12µF	±10%	1.25	399-3488-1-ND	3.54	20.93	60.38	399-3488-2-ND	2,500	58.00/M	C0805C124K1RACTU
		50	220pF	±10%	0.78	399-1138-1-ND	3.63	21.45	61.88	399-1138-2-ND	4,000	59.00/M	C0805C221K5RACTU
		50	270pF	±10%	0.78	399-1139-1-ND	3.63	21.45	61.88	399-1139-2-ND	4,000	59.00/M	C0805C271K5RACTU
		50	330pF	±10%	0.78	399-1140-1-ND	.58	3.45	9.94	399-1140-2-ND	4,000	10.00/M	C0805C331K5RACTU
		50	390pF	±10%	0.78	399-1141-1-ND	3.63	21.45	61.88	399-1141-2-ND	4,000	59.00/M	C0805C391K5RACTU
		50	470pF	±10%	0.78	399-1142-1-ND	.57	3.38	9.75	399-1142-2-ND	4,000	9.00/M	C0805C471K5RACTU
		50	560pF	±10%	0.78	399-1143-1-ND	2.75	16.25	46.88	399-1143-2-ND	4,000	45.00/M	C0805C561K5RACTU
		50	680pF	±10%	0.78	399-1144-1-ND	2.75	16.25	46.88	399-1144-2-ND	4,000	45.00/M	C0805C681K5RACTU
		50	820pF	±10%	0.78	399-1145-1-ND	2.75	16.25	46.88	399-1145-2-ND	4,000	45.00/M	C0805C821K5RACTU
		50	1000pF	±5%	0.78	399-1149-1-ND	.83	4.88	14.06	399-1149-2-ND	4,000	14.00/M	C0805C102J5RACTU
		50	1000pF	±10%	0.78	399-1147-1-ND	.34	2.02	5.81	399-1147-2-ND	4,000	6.00/M	C0805C102K5RACTU
		50	1000pF	±20%	0.78	399-1146-1-ND	.50	2.93	8.44	399-1146-2-ND	4,000	8.00/M	C0805C102M5RACTU
		50	1500pF	±10%	0.78	399-1150-1-ND	2.75	16.25	46.88	399-1150-2-ND	4,000	45.00/M	C0805C152K5RACTU
		50	2200pF	±10%	0.78	399-1151-1-ND	.37	2.21	6.38	399-1151-2-ND	4,000	6.00/M	C0805C222K5RACTU
		50	2700pF	±10%	0.78	399-1152-1-ND	2.75	16.25	46.88	399-1152-2-ND	4,000	45.00/M	C0805C272K5RACTU
		50	3300pF	±10%	0.78	399-1153-1-ND	.46	2.73	7.88	399-1153-2-ND	4,000	8.00/M	C0805C332K5RACTU
		50	3900pF	±10%	0.78	399-1154-1-ND	.51	2.99	8.63	399-1154-2-ND	4,000	8.00/M	C0805C392K5RACTU
		50	4700pF	±10%	0.78	399-1155-1-ND	.43	2.54	7.31	399-1155-2-ND	4,000	7.00/M	C0805C472K5RACTU
		50	5600pF	±10%	0.78	399-1156-1-ND	2.75	16.25	46.88	399-1156-2-ND	4,000	45.00/M	C0805C562K5RACTU
		50	6800pF	±10%	0.78	399-1157-1-ND	2.75	16.25	46.88	399-1157-2-ND	4,000	45.00/M	C0805C682K5RACTU
		50	10000pF	±10%	0.78	399-1158-1-ND	.33	1.95	5.63	399-1158-2-ND	4,000	5.00/M	C0805C103K5RACTU
		50	10000pF	±20%	0.78	399-1160-1-ND	.33	1.95	5.63	399-1160-2-ND	4,000	5.00/M	C0805C103M5RACTU
		50	15000pF	±10%	0.9	399-1161-1-ND	.46	2.73	7.88	399-1161-2-ND	4,000	8.00/M	C0805C153K5RACTU
		50	18000pF	±10%	0.78	399-1162-1-ND	3.08	18.20	52.50	399-1162-2-ND	4,000	50.00/M	C0805C183K5RACTU
		50	22000pF	±10%	0.78	399-1163-1-ND	.58	3.45	9.94	399-1163-2-ND	4,000	10.00/M	C0805C223K5RACTU
		50	27000pF	±10%	0.78	399-1164-1-ND	.67	3.97	11.44	399-1164-2-ND	4,000	11.00/M	C0805C273K5RACTU
		50	33000pF	±10%	0.78	399-1165-1-ND	.69	4.10	11.81	399-1165-2-ND	4,000	11.00/M	C0805C333K5RACTU
		50	47000pF	±10%	0.9	399-1166-1-ND	.61	3.58	10.31	399-1166-2-ND	4,000	10.00/M	C0805C473K5RACTU
		50	.10µF	±5%	0.9	399-1171-1-ND	1.21	7.15	20.63	399-1171-2-ND	4,000	20.00/M	C0805C104J5RACTU
		50	.10µF	±10%	0.9	399-1170-1-ND	.46	2.73	7.88	399-1170-2-ND	4,000	8.00/M	C0805C104K5RACTU
		50	.10µF	±20%	0.9	399-1169-1-ND	.46	2.73	7.88	399-1169-2-ND	4,000	8.00/M	C0805C104M5RACTU
		50	.12µF	±10%	1.0	399-3487-1-ND	6.39	37.77	108.94	399-3487-2-ND	4,000	105.00/M	C0805C124K5RACTU
		50	.15µF	±10%	0.9	399-3489-1-ND	6.90	40.76	117.56	399-3489-2-ND	4,000	113.00/M	C0805C154K5RACTU
		50	.18µF	±10%	0.9	399-3490-1-ND	7.57	44.72	129.00	399-3490-2-ND	4,000	124.00/M	C0805C184K5RACTU
		50	.22µF	±10%	0.9	399-3491-1-ND	2.01	11.90	34.31	399-3491-2-ND	4,000	33.00/M	C0805C224K5RACTU
		25	.10µF	±10%	0.9	399-1168-1-ND	.45	2.67	7.69	399-1168-2-ND	4,000	7.00/M	C0805C104K3RACTU
		25	.56µF	±10%	1.25	399-3492-1-ND	11.50	67.93	195.94	399-3492-2-ND	2,500	188.00/M	C0805C564K3RACTU
		16	.10µF	±10%	0.9	399-1167-1-ND	.83	4.88	14.06	399-1167-2-ND	4,000	14.00/M	C0805C104K4RACTU
		16	1.0µF	±10%	1.25	399-1284-1-ND	.95	5.59	16.13	399-1284-2-ND	2,500	15.00/M	C0805C105K4RACTU
		16	2.2µF	±10%	1.25	399-3523-1-ND	4.95	29.25	84.38	399-3523-2-ND	2,500	81.00/M	C0805C225K4RACTU
		10	1.0µF	±10%	1.25	399-1172-1-ND	1.21	7.15	20.63	399-1172-2-ND	2,500	20.00/M	C0805C105K8RACTU
		10	2.2µF	±10%	1.25	399-3522-1-ND	3.52	20.80	60.00	399-3522-2-ND	2,500	58.00/M	C0805C225K8RACTU
	X5R	10	1.2µF	±10%	0.9	399-3119-1-ND	4.51	26.65	76.88	399-3119-2-ND	4,000	74.00/M	C0805C125K8PACTU
		10	1.5µF	±10%	1.0	399-3121-1-ND	4.73	27.95	80.63	399-3121-2-ND	2,500	77.00/M	C0805C155K8PACTU
		10	1.8µF	±10%	1.25	399-3123-1-ND	4.95	29.25	84.38	399-3123-2-ND	2,500	81.00/M	C0805C185K8PACTU
		10	2.2µF	±10%	1.25	399-3125-1-ND	4.51	26.65	76.88	399-3125-2-ND	2,500	74.00/M	C0805C225K8PACTU
		10	2.7µF	±10%	0.9	399-3127-1-ND	7.02	41.47	119.63	399-3127-2-ND	4,000	115.00/M	C0805C275K8PACTU
		10	3.3µF	±10%	1.0	399-3129-1-ND	7.02	41.47	119.63	399-3129-2-ND	2,500	115.00/M	C0805C335K8PACTU
		10	3.9µF	±10%	1.25	399-3131-1-ND	7.02	41.47	119.63	399-3131-2-ND	2,500	115.00/M	C0805C395K8PACTU
		10	4.7µF	±10%	1.25	399-3133-1-ND	4.95	29.25	84.38	399-3133-2-ND	2,500	81.00/M	C0805C475K8PACTU
		6.3	1.2µF	±10%	0.9	399-3120-1-ND	4.51	26.65	76.88	399-3120-2-ND	4,000	74.00/M	C0805C125K9PACTU
		6.3	1.5µF	±10%	1.0	399-3122-1-ND	4.73	27.95	80.63	399-3122-2-ND	2,500	77.00/M	C0805C155K9PACTU
		6.3	1.8µF	±10%	1.25	399-3124-1-ND	4.95	29.25	84.38	399-3124-2-ND	2,500	81.00/M	C0805C185K9PACTU
		6.3	2.2µF	±10%	1.25	399-3126-1-ND	4.51	26.65	76.88	399-3126-2-ND	2,500	74.00/M	C0805C225K9PACTU
		6.3	2.7µF	±10%	0.9	399-3128-1-ND	7.02	41.47	119.63	399-3128-2-ND	4,000	115.00/M	C0805C275K9PACTU
		6.3	3.3µF	±10%	1.0	399-3130-1-ND	7.02	41.47	119.63	399-3130-2-ND	2,500	115.00/M	C0805C335K9PACTU
		6.3	3.9µF	±10%	1.25	399-3132-1-ND	7.02	41.47	119.63	399-3132-2-ND	2,500	115.00/M	C0805C395K9PACTU
		6.3	4.7µF	±10%	1.25	399-3134-1-ND	5.61	33.15	95.63	399-3134-2-ND	2,500	92.00/M	C0805C475K9PACTU
		6.3	5.6µF	±10%	1.25	399-3135-1-ND	14.44	85.35	246.19	399-3135-2-ND	2,500	236.00/M	C0805C565K9PACTU
		6.3	6.8µF	±10%	1.25	399-3136-1-ND	14.44	85.35	246.19	399-3136-2-ND	2,500	236.00/M	C0805C685K9PACTU
		6.3	8.2µF	±10%	1.25	399-3137-1-ND	14.44	85.35	246.19	399-3137-2-ND	2,500	236.00/M	C0805C825K9PACTU
		6.3	10µF	±10%	1.25	399-3138-1-ND	8.80	52.00	150.00	399-3138-2-ND	3,000	144.00/M	C0805C106K9PACTU
	Y5V	50	.10µF	+80%, -20%	0.9	399-1177-1-ND	.57	3.38	9.75	399-1177-2-ND	4,000	9.00/M	C0805C104Z5VACTU
		25	1.0µF	+80%, -20%	1.25	399-1293-1-ND	5.94	35.10	101.25	399-1293-2-ND	2,500	97.00/M	C0805C105Z3VACTU
		16	1.5µF	+80%, -20%	1.25	399-1294-1-ND	6.53	38.61	111.38	399-1294-2-ND	2,500	107.00/M	C0805C155Z4VACTU
		16	2.2µF	+80%, -20%	1.25	399-1295-1-ND	7.18	42.45	122.44	399-1295-2-ND	2,500	118.00/M	C0805C225Z4VACTU
		10	3.3µF	+80%, -20%	1.0	399-3222-1-ND	9.24	54.60	157.50	399-3222-2-ND	2,500	151.00/M	C0805C335Z8VACTU
		10	4.7µF	+80%, -20%	1.25	399-3224-1-ND	10.34	61.10	176.25	399-3224-2-ND	2,500	169.00/M	C0805C475Z8VACTU
		6.3	3.3µF	+80%, -20%	1.0	399-3223-1-ND	9.24	54.60	157.50	399-3223-2-ND	2,500	151.00/M	C0805C335Z9VACTU
		6.3	4.7µF	+80%, -20%	1.25	399-3225-1-ND	10.34	61.10	176.25	399-3225-2-ND	2,500	169.00/M	C0805C475Z9VACTU
		6.3	6.8µF	+80%, -20%	1.25	399-3294-1-ND	11.99	70.85	204.38	—	—	—	C0805C685Z9VACTU
		6.3	10µF	+80%, -20%	1.25	399-3295-1-ND	10.89	64.35	185.63	399-3295-2-ND	3,000	178.00/M	C0805C106Z9VACTU

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.** *(Continued)*

Case		WV			Dim. T	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		Kemet
Size	Type	DC	Capacitance	Tolerance	(mm)	Part No.	10	100	500	Part No.	Size	Pricing	Part No.
0805	Z5U	50	10000pF	+80%, -20%	0.78	399-1173-1-ND	.64	3.77	10.88	399-1173-2-ND	4,000	10.00/M	C0805C103Z5UACTU
		50	10000pF	±20%	0.78	399-1174-1-ND	.64	3.77	10.88	399-1174-2-ND	4,000	10.00/M	C0805C103M5UACTU
		50	.10µF	+80%, -20%	0.9	399-1175-1-ND	.75	4.42	12.75	399-1175-2-ND	4,000	12.00/M	C0805C104Z5UACTU
		50	.10µF	±20%	0.9	399-1176-1-ND	.59	3.51	10.13	399-1176-2-ND	4,000	10.00/M	C0805C104M5UACTU
1206	C0G (NP0)	100	100pF	±5%	0.78	399-1206-1-ND	1.32	7.80	22.50	399-1206-2-ND	4,000	22.00/M	C1206C101J1GACTU
		100	470pF	±5%	0.78	399-1214-1-ND	5.46	32.24	93.00	399-1214-2-ND	4,000	89.00/M	C1206C471J1GACTU
		100	1000pF	±5%	0.78	399-1219-1-ND	3.85	22.75	65.63	399-1219-2-ND	4,000	63.00/M	C1206C102J1GACTU
		50	1.0pF	±0.25pF	0.78	399-1178-1-ND	7.28	43.03	124.13	399-1178-2-ND	4,000	119.00/M	C1206C109C5GACTU
		50	1.5pF	±0.25pF	0.78	399-1179-1-ND	7.28	43.03	124.13	399-1179-2-ND	4,000	119.00/M	C1206C159C5GACTU
		50	1.8pF	±0.25pF	0.78	399-1180-1-ND	7.28	43.03	124.13	399-1180-2-ND	4,000	119.00/M	C1206C189C5GACTU
		50	2.2pF	±0.25pF	0.78	399-1181-1-ND	7.28	43.03	124.13	399-1181-2-ND	4,000	119.00/M	C1206C229C5GACTU
		50	2.7pF	±0.25pF	0.78	399-1182-1-ND	7.28	43.03	124.13	399-1182-2-ND	4,000	119.00/M	C1206C279C5GACTU
		50	3.3pF	±0.25pF	0.78	399-1183-1-ND	7.28	43.03	124.13	399-1183-2-ND	4,000	119.00/M	C1206C339C5GACTU
		50	3.9pF	±0.25pF	0.78	399-1184-1-ND	7.28	43.03	124.13	399-1184-2-ND	4,000	119.00/M	C1206C399C5GACTU
		50	4.7pF	±0.25pF	0.78	399-1185-1-ND	7.28	43.03	124.13	399-1185-2-ND	4,000	119.00/M	C1206C479C5GACTU
		50	5.1pF	±0.25pF	0.78	399-1186-1-ND	10.54	62.27	179.63	399-1186-2-ND	4,000	172.00/M	C1206C519C5GACTU
		50	5.6pF	±0.25pF	0.78	399-1187-1-ND	8.78	51.87	149.63	399-1187-2-ND	4,000	144.00/M	C1206C569C5GACTU
		50	6.8pF	±0.5pF	0.78	399-1188-1-ND	4.16	24.57	70.88	399-1188-2-ND	4,000	68.00/M	C1206C689D5GACTU
		50	7.5pF	±0.5pF	0.78	399-1189-1-ND	4.99	29.51	85.13	399-1189-2-ND	4,000	82.00/M	C1206C759D5GACTU
		50	8.2pF	±0.5pF	0.78	399-1190-1-ND	4.16	24.57	70.88	399-1190-2-ND	4,000	68.00/M	C1206C829D5GACTU
		50	9.1pF	±0.5pF	0.78	399-1191-1-ND	4.99	29.51	85.13	399-1191-2-ND	4,000	82.00/M	C1206C919D5GACTU
		50	10pF	±5%	0.78	399-1192-1-ND	1.71	10.08	29.06	399-1192-2-ND	4,000	28.00/M	C1206C100J5GACTU
		50	12pF	±5%	0.78	399-1193-1-ND	1.71	10.08	29.06	399-1193-2-ND	4,000	28.00/M	C1206C120J5GACTU
		50	15pF	±5%	0.78	399-1194-1-ND	1.71	10.08	29.06	399-1194-2-ND	4,000	28.00/M	C1206C150J5GACTU
		50	18pF	±5%	0.78	399-1195-1-ND	1.71	10.08	29.06	399-1195-2-ND	4,000	28.00/M	C1206C180J5GACTU
		50	20pF	±5%	0.78	399-1196-1-ND	4.99	29.51	85.13	399-1196-2-ND	4,000	82.00/M	C1206C200J5GACTU
		50	22pF	±5%	0.78	399-1197-1-ND	1.71	10.08	29.06	399-1197-2-ND	4,000	28.00/M	C1206C220J5GACTU
		50	27pF	±5%	0.78	399-1198-1-ND	1.71	10.08	29.06	399-1198-2-ND	4,000	28.00/M	C1206C270J5GACTU
		50	33pF	±5%	0.78	399-1199-1-ND	1.71	10.08	29.06	399-1199-2-ND	4,000	28.00/M	C1206C330J5GACTU
		50	39pF	±5%	0.78	399-1200-1-ND	4.16	24.57	70.88	399-1200-2-ND	4,000	68.00/M	C1206C390J5GACTU
		50	47pF	±5%	0.78	399-1201-1-ND	1.71	10.08	29.06	399-1201-2-ND	4,000	28.00/M	C1206C470J5GACTU
		50	51pF	±5%	0.78	399-1202-1-ND	4.99	29.51	85.13	399-1202-2-ND	4,000	82.00/M	C1206C510J5GACTU
		50	56pF	±5%	0.78	399-1203-1-ND	4.16	24.57	70.88	399-1203-2-ND	4,000	68.00/M	C1206C560J5GACTU
		50	68pF	±5%	0.78	399-1204-1-ND	4.16	24.57	70.88	399-1204-2-ND	4,000	68.00/M	C1206C680J5GACTU
		50	100pF	±5%	0.78	399-1205-1-ND	1.71	10.08	29.06	399-1205-2-ND	4,000	28.00/M	C1206C101J5GACTU
		50	120pF	±5%	0.78	399-1207-1-ND	4.16	24.57	70.88	399-1207-2-ND	4,000	68.00/M	C1206C121J5GACTU
		50	220pF	±10%	0.78	399-1208-1-ND	4.28	25.29	72.94	399-1208-2-ND	4,000	70.00/M	C1206C221K5GACTU
		50	270pF	±10%	0.78	399-1209-1-ND	4.39	25.94	74.81	399-1209-2-ND	4,000	72.00/M	C1206C271K5GACTU
		50	330pF	±10%	0.78	399-1210-1-ND	4.39	25.94	74.81	399-1210-2-ND	4,000	72.00/M	C1206C331K5GACTU
		50	390pF	±10%	0.78	399-1211-1-ND	4.51	26.65	76.88	399-1211-2-ND	4,000	74.00/M	C1206C391K5GACTU
		50	470pF	±5%	0.78	399-1213-1-ND	2.20	13.00	37.50	399-1213-2-ND	4,000	36.00/M	C1206C471J5GACTU
		50	470pF	±10%	0.78	399-1212-1-ND	4.51	26.65	76.88	399-1212-2-ND	4,000	74.00/M	C1206C471K5GACTU
		50	560pF	±10%	0.78	399-1215-1-ND	4.74	28.02	80.81	399-1215-2-ND	4,000	78.00/M	C1206C561K5GACTU
		50	680pF	±10%	0.78	399-1216-1-ND	4.97	29.38	84.75	399-1216-2-ND	4,000	81.00/M	C1206C681K5GACTU
		50	820pF	±10%	0.78	399-1217-1-ND	5.20	30.75	88.69	399-1217-2-ND	4,000	85.00/M	C1206C821K5GACTU
		50	1000pF	±5%	0.78	399-1218-1-ND	1.82	10.73	30.94	399-1218-2-ND	4,000	30.00/M	C1206C102J5GACTU
		50	4700pF	±2%	0.9	399-1220-1-ND	34.39	203.19	586.13	—	—	—	C1206C472G5GACTU
		50	4700pF	±5%	0.9	399-3503-1-ND	9.82	58.05	167.44	399-3503-2-ND	4,000	161.00/M	C1206C472J5GACTU
	X7R	1000	1000pF	±10%	0.75	399-3437-1-ND	3.52	20.80	60.00	399-3437-2-ND	2,000	58.00/M	C1206C102KDRACTU
		500	1000pF	±10%	1.15	399-3436-1-ND	4.40	26.00	75.00	399-3436-2-ND	2,000	72.00/M	C1206C102KCRACTU
		500	.01µF	±10%	1.4	399-3438-1-ND	8.25	48.75	140.63	399-3438-2-ND	2,000	135.00/M	C1206C103KCRACTU
		100	1000pF	±10%	0.78	399-1222-1-ND	1.87	11.05	31.88	399-1222-2-ND	4,000	31.00/M	C1206C102K1RACTU
		100	10000pF	±5%	0.78	399-1238-1-ND	1.98	11.70	33.75	399-1238-2-ND	4,000	32.00/M	C1206C103J1RACTU
		100	10000pF	±10%	0.78	399-1236-1-ND	1.32	7.80	22.50	399-1236-2-ND	4,000	22.00/M	C1206C103K1RACTU
		100	10000pF	±20%	0.78	399-1235-1-ND	1.32	7.80	22.50	399-1235-2-ND	4,000	22.00/M	C1206C103M1RACTU
		100	56000pF	±10%	0.78	399-1802-1-ND	5.54	32.76	94.50	399-1802-2-ND	4,000	91.00/M	C1206C563K1RACTU
		100	68000pF	±10%	0.78	399-1803-1-ND	6.01	35.49	102.38	399-1803-2-ND	4,000	98.00/M	C1206C683K1RACTU
		100	82000pF	±10%	0.78	399-1804-1-ND	6.31	37.31	107.63	399-1804-2-ND	4,000	103.00/M	C1206C823K1RACTU
		100	.10µF	±10%	0.78	399-1805-1-ND	2.37	13.98	40.31	399-1805-2-ND	4,000	39.00/M	C1206C104K1RACTU
		100	.27µF	±10%	1.25	399-3494-1-ND	13.21	78.07	225.19	399-3494-2-ND	2,500	216.00/M	C1206C274K1RACTU
		100	.39µF	±10%	1.6	399-3497-1-ND	15.98	94.45	272.44	399-3497-2-ND	2,000	262.00/M	C1206C394K1RACTU
		50	1000pF	±10%	0.78	399-1221-1-ND	1.32	7.80	22.50	399-1221-2-ND	4,000	22.00/M	C1206C102K5RACTU
		50	1200pF	±10%	0.78	399-1223-1-ND	3.30	19.50	56.25	399-1223-2-ND	4,000	54.00/M	C1206C122K5RACTU
		50	1500pF	±10%	0.78	399-1224-1-ND	3.30	19.50	56.25	399-1224-2-ND	4,000	54.00/M	C1206C152K5RACTU
		50	1800pF	±10%	0.78	399-1225-1-ND	3.30	19.50	56.25	399-1225-2-ND	4,000	54.00/M	C1206C182K5RACTU
		50	2200pF	±10%	0.78	399-1226-1-ND	1.71	10.08	29.06	399-1226-2-ND	4,000	28.00/M	C1206C222K5RACTU
		50	2700pF	±10%	0.78	399-1227-1-ND	3.30	19.50	56.25	399-1227-2-ND	4,000	54.00/M	C1206C272K5RACTU
		50	3300pF	±10%	0.78	399-1228-1-ND	3.30	19.50	56.25	399-1228-2-ND	4,000	54.00/M	C1206C332K5RACTU
		50	3900pF	±10%	0.78	399-1229-1-ND	3.30	19.50	56.25	399-1229-2-ND	4,000	54.00/M	C1206C392K5RACTU
		50	4700pF	±10%	0.78	399-1230-1-ND	1.71	10.08	29.06	399-1230-2-ND	4,000	28.00/M	C1206C472K5RACTU
		50	5600pF	±10%	0.78	399-1231-1-ND	3.30	19.50	56.25	399-1231-2-ND	4,000	54.00/M	C1206C562K5RACTU
		50	6800pF	±10%	0.78	399-1232-1-ND	3.30	19.50	56.25	399-1232-2-ND	4,000	54.00/M	C1206C682K5RACTU
		50	8200pF	±10%	0.78	399-1233-1-ND	3.30	19.50	56.25	399-1233-2-ND	4,000	54.00/M	C1206C822K5RACTU
		50	10000pF	±5%	0.78	399-1237-1-ND	1.65	9.75	28.13	399-1237-2-ND	4,000	27.00/M	C1206C103J5RACTU
		50	10000pF	±10%	0.78	399-1234-1-ND	1.21	7.15	20.63	399-1234-2-ND	4,000	20.00/M	C1206C103K5RACTU
		50	12000pF	±10%	0.78	399-1239-1-ND	3.74	22.10	63.75	399-1239-2-ND	4,000	61.00/M	C1206C123K5RACTU
		50	15000pF	±10%	0.78	399-1240-1-ND	3.74	22.10	63.75	399-1240-2-ND	4,000	61.00/M	C1206C153K5RACTU
		50	18000pF	±10%	0.78	399-1241-1-ND	3.74	22.10	63.75	399-1241-2-ND	4,000	61.00/M	C1206C183K5RACTU
		50	22000pF	±10%	0.78	399-1242-1-ND	1.65	9.75	28.13	399-1242-2-ND	4,000	27.00/M	C1206C223K5RACTU
		50	27000pF	±10%	0.78	399-1243-1-ND	3.74	22.10	63.75	399-1243-2-ND	4,000	61.00/M	C1206C273K5RACTU
		50	33000pF	±10%	0.78	399-1244-1-ND	3.74	22.10	63.75	399-1244-2-ND	4,000	61.00/M	C1206C333K5RACTU
		50	39000pF	±10%	0.78	399-1245-1-ND	3.85	22.75	65.63	399-1245-2-ND	4,000	63.00/M	C1206C393K5RACTU
		50	47000pF	±10%	0.78	399-1246-1-ND	1.34	7.93	22.88	399-1246-2-ND	4,000	22.00/M	C1206C473K5RACTU
		50	68000pF	±5%	0.78	399-1247-1-ND	4.03	23.79	68.63	399-1247-2-ND	4,000	66.00/M	C1206C683J5RACTU
		50	.10µF	±5%	0.78	399-1250-1-ND	2.53	14.95	43.13	399-1250-2-ND	4,000	41.00/M	C1206C104J5RACTU
		50	.10µF	±10%	0.78	399-1249-1-ND	.72	4.23	12.19	399-1249-2-ND	4,000	12.00/M	C1206C104K5RACTU
		50	.10µF	±20%	0.78	399-1248-1-ND	.72	4.23	12.19	399-1248-2-ND	4,000	12.00/M	C1206C104M5RACTU
		50	.22µF	±5%	0.9	399-1252-1-ND	13.75	81.25	234.38	399-1252-2-ND	2,500	225.00/M	C1206C224J5RACTU
		50	.22µF	±10%	0.9	399-1251-1-ND	2.51	14.82	42.75	399-1251-2-ND	2,500	41.00/M	C1206C224K5RACTU
		50	.27µF	±10%	0.9	399-3493-1-ND	9.35	55.25	159.38	399-3493-2-ND	4,000	153.00/M	C1206C274K5RACTU
		50	.33µF	±10%	0.9	399-3495-1-ND	9.90	58.50	168.75	399-3495-2-ND	4,000	162.00/M	C1206C334K5RACTU
		50	.39µF	±10%	0.9	399-3496-1-ND	10.45	61.75	178.13	399-3496-2-ND	4,000	171.00/M	C1206C394K5RACTU
		50	.47µF	±10%	0.9	399-3498-1-ND	4.64	27.43	79.13	399-3498-2-ND	4,000	76.00/M	C1206C474K5RACTU
		50	.56µF	±10%	0.9	399-3499-1-ND	12.71	75.08	216.56	399-3499-2-ND	4,000	208.00/M	C1206C564K5RACTU
		50	.68µF	±10%	1.0	399-3500-1-ND	16.34	96.53	278.44	399-3500-2-ND	2,500	267.00/M	C1206C684K5RACTU
		25	.33µF	±10%	0.78	399-1285-1-ND	3.51	20.74	59.81	399-1285-2-ND	4,000	57.00/M	C1206C334K3RACTU
		25	1.0µF	±10%	1.6	399-1255-1-ND	1.88	11.12	32.06	399-1255-2-ND	2,000	31.00/M	C1206C105K3RACTU
		25	1.2µF	±10%	1.6	399-3501-1-ND	14.74	87.10	251.25	399-3501-2-ND	2,000	241.00/M	C1206C125K3RACTU
		25	1.5µF	±10%	1.6	399-3502-1-ND	15.62	92.30	266.25	399-3502-2-ND	2,000	256.00/M	C1206C155K3RACTU
		16	.33µF	±10%	0.78	399-1253-1-ND	9.90	58.50	168.75	399-1253-2-ND	4,000	162.00/M	C1206C334K4RACTU
		16	1.0µF	±10%	1.1	399-1254-1-ND	2.08	12.29	35.44	399-1254-2-ND	2,500	34.00/M	C1206C105K4RACTU

***NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.**

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Kemet Part No.
1206	X7R	16	1.2µF	±10%	1.0	399-1286-1-ND	14.30	84.50	243.75	399-1286-2-ND	4,000	234.00/M	C1206C125K4RACTU
		16	2.2µF	±10%	1.6	399-1257-1-ND	4.73	27.95	80.63	399-1257-2-ND	2,000	77.00/M	C1206C225K4RACTU
		16	4.7µF	±10%	1.25	399-3524-1-ND	19.80	117.00	337.50	399-3524-2-ND	2,500	324.00/M	C1206C475K4RACTU
		16	10µF	±10%	1.6	399-3525-1-ND	25.30	149.50	431.25	399-3525-2-ND	2,000	414.00/M	C1206C106K4RACTU
		10	1.2µF	±10%	1.0	399-1256-1-ND	14.30	84.50	243.75	399-1256-2-ND	4,000	234.00/M	C1206C125K8RACTU
	X5R	25	2.7µF	±10%	1.2	399-3139-1-ND	9.90	58.50	168.75	399-3139-2-ND	2,500	162.00/M	C1206C275K3PACTU
		25	3.3µF	±10%	1.6	399-3140-1-ND	11.00	65.00	187.50	399-3140-2-ND	2,000	180.00/M	C1206C335K3PACTU
		25	3.9µF	±10%	1.6	399-3141-1-ND	11.00	65.00	187.50	399-3141-2-ND	2,000	180.00/M	C1206C395K3PACTU
		25	4.7µF	±10%	1.6	399-3142-1-ND	8.25	48.75	140.63	399-3142-2-ND	2,000	135.00/M	C1206C475K3PACTU
		16	2.2µF	±10%	1.1	399-1263-1-ND	8.80	52.00	150.00	399-1263-2-ND	2,500	144.00/M	C1206C225K4PACTU
		16	3.3µF	±10%	1.6	399-1264-1-ND	11.00	65.00	187.50	399-1264-2-ND	2,000	180.00/M	C1206C335K4PACTU
		16	4.7µF	±10%	1.6	399-1265-1-ND	8.64	51.03	147.19	399-1265-2-ND	2,000	141.00/M	C1206C475K4PACTU
		6.3	6.8µF	±10%	1.6	399-3025-1-ND	14.96	88.40	255.00	399-3025-2-ND	2,000	245.00/M	C1206C685K9PACTU
		6.3	10µF	±10%	1.6	399-3029-1-ND	7.15	42.25	121.88	399-3029-2-ND	2,000	117.00/M	C1206C106K9PACTU
		6.3	12µF	±10%	1.6	399-3226-1-ND	20.35	120.25	346.88	399-3226-2-ND	2,000	333.00/M	C1206C126K9PACTU
		6.3	15µF	±10%	1.6	399-3227-1-ND	21.45	126.75	365.63	399-3227-2-ND	2,000	351.00/M	C1206C156K9PACTU
		6.3	18µF	±10%	1.6	399-3228-1-ND	23.65	139.75	403.13	—	—	—	C1206C186K9PACTU
		6.3	22µF	±10%	1.6	399-3229-1-ND	17.60	104.00	300.00	399-3229-2-ND	2,000	288.00/M	C1206C226K9PACTU
	Y5V	25	1.0µF	+80%, -20%	0.78	399-1296-1-ND	6.16	36.40	105.00	399-1296-2-ND	4,000	101.00/M	C1206C105Z3VACTU
		16	1.5µF	+80%, -20%	0.9	399-1297-1-ND	8.25	48.75	140.63	399-1297-2-ND	4,000	135.00/M	C1206C155Z4VACTU
		16	2.2µF	+80%, -20%	1.0	399-1260-1-ND	2.75	16.25	46.88	399-1260-2-ND	2,500	45.00/M	C1206C225Z4VACTU
		16	3.3µF	+80%, -20%	1.2	399-1261-1-ND	9.35	55.25	159.38	399-1261-2-ND	2,500	153.00/M	C1206C335Z4VACTU
		16	4.7µF	+80%, -20%	1.7	399-1262-1-ND	3.30	19.50	56.25	399-1262-2-ND	2,500	54.00/M	C1206C475Z4VACTU
		10	6.8µF	+80%, -20%	1.7	399-1298-1-ND	13.07	77.22	222.75	399-1298-2-ND	2,000	214.00/M	C1206C685Z8VACTU
		10	10µF	+80%, -20%	1.7	399-1299-1-ND	7.70	45.50	131.25	399-1299-2-ND	2,000	126.00/M	C1206C106Z8VACTU
		6.3	15µF	+80%, -20%	1.7	399-3024-1-ND	22.00	130.00	375.00	399-3024-2-ND	2,000	360.00/M	C1206C156Z9VACTU
		6.3	22µF	+80%, -20%	1.7	399-3028-1-ND	25.85	152.75	440.63	399-3028-2-ND	2,000	423.00/M	C1206C226Z9VACTU
	Z5U	50	.10µF	+80%, -20%	0.78	399-1258-1-ND	1.21	7.15	20.63	399-1258-2-ND	4,000	20.00/M	C1206C104Z5UACTU
		50	.10µF	±20%	0.78	399-1259-1-ND	1.21	7.15	20.63	399-1259-2-ND	4,000	20.00/M	C1206C104M5UACTU
1210	C0G(NP0)	50	10000pF	±5%	1.1	399-1266-1-ND	34.77	205.47	592.69	399-1266-2-ND	2,500	569.00/M	C1210C103J5GACTU
	X7R	2000	100pF	±10%	1.4	399-3439-1-ND	13.20	78.00	225.00	399-3439-2-ND	2,000	216.00/M	C1210C101KGRACTU
		2000	680pF	±10%	1.3	399-3441-1-ND	13.20	78.00	225.00	399-3441-2-ND	2,000	216.00/M	C1210C681KGRACTU
		1500	220pF	±10%	1.4	399-3440-1-ND	13.20	78.00	225.00	399-3440-2-ND	2,000	216.00/M	C1210C221KFRACTU
		100	.10µF	±10%	0.95	399-1268-1-ND	4.07	24.05	69.38	399-1268-2-ND	2,500	67.00/M	C1210C104K1RACTU
		50	.10µF	±10%	0.78	399-1267-1-ND	3.63	21.45	61.88	399-1267-2-ND	4,000	59.00/M	C1210C104K5RACTU
		50	.22µF	±10%	0.9	399-1269-1-ND	4.40	26.00	75.00	399-1269-2-ND	2,500	72.00/M	C1210C224K5RACTU
		50	.39µF	±10%	0.95	399-3087-1-ND	18.15	107.25	309.38	399-3087-2-ND	4,000	297.00/M	C1210C394K5RACTU
		50	.47µF	±10%	0.95	399-3089-1-ND	18.15	107.25	309.38	399-3089-2-ND	4,000	297.00/M	C1210C474K5RACTU
		50	.56µF	±10%	0.95	399-3091-1-ND	18.15	107.25	309.38	399-3091-2-ND	4,000	297.00/M	C1210C564K5RACTU
		50	.68µF	±10%	0.95	399-3092-1-ND	18.15	107.25	309.38	399-3092-2-ND	4,000	297.00/M	C1210C684K5RACTU
		50	.82µF	±10%	1.1	399-3093-1-ND	19.80	117.00	337.50	399-3093-2-ND	2,500	324.00/M	C1210C824K5RACTU
		50	1.0µF	±10%	1.55	399-3076-1-ND	6.88	40.63	117.19	399-3076-2-ND	2,000	113.00/M	C1210C105K5RACTU
		25	1.2µF	±10%	1.55	399-3078-1-ND	19.80	117.00	337.50	399-3078-2-ND	4,000	324.00/M	C1210C125K3RACTU
		25	1.5µF	±10%	1.55	399-3080-1-ND	19.80	117.00	337.50	399-3080-2-ND	2,000	324.00/M	C1210C155K3RACTU
		25	1.8µF	±10%	1.55	399-3082-1-ND	16.50	97.50	281.25	399-3082-2-ND	2,000	270.00/M	C1210C185K3RACTU
		25	2.2µF	±10%	1.85	399-3084-1-ND	16.50	97.50	281.25	399-3084-2-ND	2,000	270.00/M	C1210C225K3RACTU
	X5R	25	1.2µF	±10%	0.95	399-3077-1-ND	9.35	55.25	159.38	399-3077-2-ND	2,000	153.00/M	C1210C125K3PACTU
		25	1.5µF	±10%	0.95	399-3079-1-ND	9.35	55.25	159.38	399-3079-2-ND	2,000	153.00/M	C1210C155K3PACTU
		25	1.8µF	±10%	0.95	399-3081-1-ND	9.35	55.25	159.38	399-3081-2-ND	4,000	153.00/M	C1210C185K3PACTU
		25	2.2µF	±10%	1.25	399-3083-1-ND	11.00	65.00	187.50	399-3083-2-ND	2,500	180.00/M	C1210C225K3PACTU
		25	2.7µF	±10%	1.25	399-3143-1-ND	14.85	87.75	253.13	399-3143-2-ND	2,500	243.00/M	C1210C275K3PACTU
		25	3.3µF	±10%	1.55	399-3144-1-ND	14.85	87.75	253.13	399-3144-2-ND	2,000	243.00/M	C1210C335K3PACTU
		25	3.9µF	±10%	1.85	399-3145-1-ND	18.15	107.25	309.38	399-3145-2-ND	2,000	297.00/M	C1210C395K3PACTU
		25	4.7µF	±10%	2.1	399-3146-1-ND	18.15	107.25	309.38	399-3146-2-ND	2,000	297.00/M	C1210C475K3PACTU
		16	5.6µF	±10%	1.85	399-3147-1-ND	24.20	143.00	412.50	399-3147-2-ND	2,500	396.00/M	C1210C565K4PACTU
		16	8.2µF	±10%	2.1	399-3149-1-ND	24.20	143.00	412.50	399-3149-2-ND	1,800	396.00/M	C1210C825K4PACTU
		16	10µF	±10%	2.1	399-3150-1-ND	36.30	214.50	618.75	399-3150-2-ND	2,000	594.00/M	C1210C106K4PACTU
		16	2.7µF	±10%	1.25	399-3085-1-ND	14.85	87.75	253.13	399-3085-2-ND	2,500	243.00/M	C1210C275K4PACTU
		16	3.3µF	±10%	1.55	399-3086-1-ND	14.85	87.75	253.13	399-3086-2-ND	2,000	243.00/M	C1210C335K4PACTU
		16	3.9µF	±10%	1.85	399-3088-1-ND	18.15	107.25	309.38	399-3088-2-ND	2,000	297.00/M	C1210C395K4PACTU
		16	4.7µF	±10%	2.1	399-3090-1-ND	18.15	107.25	309.38	399-3090-2-ND	2,000	297.00/M	C1210C475K4PACTU
		16	6.8µF	±10%	1.85	399-1288-1-ND	24.20	143.00	412.50	399-1288-2-ND	2,000	396.00/M	C1210C685K4PACTU
		10	4.7µF	±10%	2.1	399-1273-1-ND	18.15	107.25	309.38	399-1273-2-ND	2,000	297.00/M	C1210C475K8PACTU
		10	6.8µF	±10%	1.85	399-1274-1-ND	24.20	143.00	412.50	399-1274-2-ND	2,000	396.00/M	C1210C685K8PACTU
		10	10µF	±10%	2.1	399-1275-1-ND	36.30	214.50	618.75	399-1275-2-ND	2,000	594.00/M	C1210C106K8PACTU
		10	12µF	±10%	0.95	399-3296-1-ND	23.10	136.50	393.75	399-3296-2-ND	2,000	378.00/M	C1210C126K8PACTU
		10	15µF	±10%	0.95	399-3298-1-ND	24.20	143.00	412.50	399-3298-2-ND	2,500	396.00/M	C1210C156K8PACTU
		10	18µF	±10%	1.4	399-3300-1-ND	25.30	149.50	431.25	399-3300-2-ND	2,500	414.00/M	C1210C186K8PACTU
		10	22µF	±10%	1.55	399-3302-1-ND	26.40	156.00	450.00	399-3302-2-ND	2,000	432.00/M	C1210C226K8PACTU
		6.3	12µF	±10%	0.95	399-3297-1-ND	23.10	136.50	393.75	399-3297-2-ND	2,500	378.00/M	C1210C126K9PACTU
		6.3	15µF	±10%	0.95	399-3299-1-ND	24.20	143.00	412.50	399-3299-2-ND	2,500	396.00/M	C1210C156K9PACTU
		6.3	18µF	±10%	1.4	399-3301-1-ND	25.30	149.50	431.25	399-3301-2-ND	2,500	414.00/M	C1210C186K9PACTU
		6.3	22µF	±10%	1.55	399-3303-1-ND	20.90	123.50	356.25	399-3303-2-ND	2,000	342.00/M	C1210C226K9PACTU
	Y5V	16	4.7µF	+80%, -20%	1.25	399-1270-1-ND	15.40	91.00	262.50	399-1270-2-ND	2,500	252.00/M	C1210C475Z4VACTU
		16	6.8µF	+80%, -20%	1.55	399-1271-1-ND	18.70	110.50	318.75	399-1271-2-ND	2,500	306.00/M	C1210C685Z4VACTU
		16	10µF	+80%, -20%	1.85	399-1272-1-ND	8.69	51.35	148.13	399-1272-2-ND	2,000	142.00/M	C1210C106Z4VACTU
		10	15µF	+80%, -20%	1.85	399-1300-1-ND	26.13	154.38	445.31	399-1300-2-ND	2,500	428.00/M	C1210C156Z8VACTU
		10	22µF	+80%, -20%	2.1	399-1301-1-ND	19.80	117.00	337.50	399-1301-2-ND	1,500	324.00/M	C1210C226Z8VACTU
1808	X7R	3000	100pF	±10%	1.4	399-3442-1-ND	18.70	110.50	318.75	399-3442-2-ND	1,000	306.00	C1808C101KHRACTU
		2000	1000pF	±10%	1.65	399-3443-1-ND	20.35	120.25	346.88	399-3443-2-ND	1,000	333.00	C1808C102KGRACTU
		1000	.01µF	±10%	1.9	399-3444-1-ND	18.70	110.50	318.75	399-3444-2-ND	1,000	306.00	C1808C103KDRACTU
1812	C0G(NP0)	1000	1000pF	±10%	1.4	399-3445-1-ND	18.15	107.25	309.38	399-3445-2-ND	1,000	297.00	C1812C102KDGACTU
	X7R	3000	1000pF	±10%	1.65	399-3448-1-ND	21.45	126.75	365.63	399-3448-2-ND	1,000	351.00	C1812C102KHRACTU
		2000	1000pF	±10%	1.65	399-3447-1-ND	18.15	107.25	309.38	399-3447-2-ND	1,000	297.00	C1812C102KGRACTU
		1000	1000pF	±10%	1.0	399-3446-1-ND	15.40	91.00	262.50	399-3446-2-ND	1,000	252.00	C1812C102KDRACTU
		1000	4700pF	±10%	1.0	399-3452-1-ND	15.95	94.25	271.88	399-3452-2-ND	1,000	261.00	C1812C472KDRACTU
		1000	.01µF	±10%	1.5	399-3450-1-ND	16.50	97.50	281.25	399-3450-2-ND	1,000	270.00	C1812C103KDRACTU
		500	.01µF	±10%	1.15	399-3449-1-ND	14.85	87.75	253.13	399-3449-2-ND	1,000	243.00	C1812C103KCRACTU
		500	.047µF	±10%	1.65	399-3453-1-ND	16.50	97.50	281.25	399-3453-2-ND	1,000	270.00	C1812C473KCRACTU
		50	.47µF	±10%	1.0	399-3454-1-ND	20.68	122.20	352.50	399-3454-2-ND	1,000	338.00	C1812C474K5RACTU
		50	.68µF	±10%	1.1	399-3455-1-ND	26.62	157.30	453.75	399-3455-2-ND	1,000	436.00	C1812C684K5RACTU
		50	1.0µF	±10%	1.3	399-3451-1-ND	22.00	130.00	375.00	399-3451-2-ND	1,000	360.00	C1812C105K5RACTU
1825	X7R	50	.47µF	±10%	1.1	399-3457-1-ND	54.45	321.75	928.13	399-3457-2-ND	1,000	891.00	C1825C474K5RACTU
		50	1.0µF	±10%	1.1	399-3456-1-ND	60.50	357.50	1031.25	399-3456-2-ND	1,000	990.00	C1825C105K5RACTU
2225	X7R	500	.10µF	±10%	1.15	399-3458-1-ND	82.50	487.50	1406.25	399-3458-2-ND	1,000	1350.00	C2225C104KCRACTU
		500	.22µF	±10%	1.7	399-3460-1-ND	82.50	487.50	1406.25	399-3460-2-ND	1,000	1350.00	C2225C224KCRACTU
		50	1.0µF	±10%	1.0	399-3459-1-ND	66.55	393.25	1134.38	399-3459-2-ND	1,000	1089.00	C2225C105K5RACTU
		50	2.2µF	±10%	1.3	399-3461-1-ND	105.05	620.75	1790.63	399-3461-2-ND	1,000	1719.00	C2225C225K5RACTU

NOTE*: Parts with improved tolerances or voltages may be substituted within the same case size. These parts will provide performance equal to or better than those which you ordered.*

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NEW! Monolithic Ceramic Capacitors

RPE Series

Features:
- Small size and large capacitance
- Low ESR characteristics for high frequency
- Coated with epoxy resin whose flammability is equivalent to UL94V-0

Fig. 1 — Outside Crimp

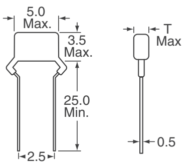

Fig. 2 — Inside Crimp

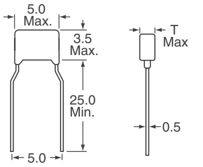

Fig. 3 — Inside Crimp

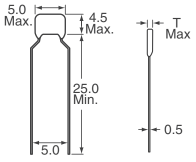

Fig.	Type	WV Vdc	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Bulk Pricing			Murata Part No.
							1	10	100	
1	C0G	100	1.0pF	±0.25pF	2.5	490-3617-ND	.28	2.10	14.98	RPE5C2A1R0C2P1B03B
			1.2pF	±0.25pF	2.5	490-3618-ND	.31	2.30	16.45	RPE5C2A1R2C2P1B03B
			1.5pF	±0.25pF	2.5	490-3619-ND	.31	2.30	16.45	RPE5C2A1R5C2P1B03B
			1.8pF	±0.25pF	2.5	490-3620-ND	.31	2.30	16.45	RPE5C2A1R8C2P1B03B
			2.0pF	±0.25pF	2.5	490-3633-ND	.28	2.10	14.98	RPE5C2A2R0C2P1B03B
			2.2pF	±0.25pF	2.5	490-3634-ND	.31	2.30	16.45	RPE5C2A2R2C2P1B03B
			2.7pF	±0.25pF	2.5	490-3635-ND	.31	2.30	16.45	RPE5C2A2R7C2P1B03B
			3.0pF	±0.25pF	2.5	490-3643-ND	.28	2.10	14.98	RPE5C2A3R0C2P1B03B
			3.3pF	±0.25pF	2.5	490-3644-ND	.31	2.30	16.45	RPE5C2A3R3C2P1B03B
			3.6pF	±0.25pF	2.5	490-3645-ND	.31	2.30	16.45	RPE5C2A3R6C2P1B03B
			3.9pF	±0.25pF	2.5	490-3646-ND	.31	2.30	16.45	RPE5C2A3R9C2P1B03B
			4.7pF	±0.25pF	2.5	490-3653-ND	.31	2.30	16.45	RPE5C2A4R7C2P1B03B
			5.0pF	±0.25pF	2.5	490-3658-ND	.28	2.10	14.98	RPE5C2A5R0C2P1B03B
			5.6pF	±0.25pF	2.5	490-3659-ND	.37	2.71	19.38	RPE5C2A5R6C2P1B03B
			6.2pF	±0.25pF	2.5	490-3662-ND	.37	2.71	19.38	RPE5C2A6R2C2P1B03B
			6.8pF	±0.25pF	2.5	490-3663-ND	.37	2.71	19.38	RPE5C2A6R8C2P1B03B
			10pF	±5%	2.5	490-3623-ND	.34	2.54	18.13	RPE5C2A100J2P1Z03B
			11pF	±5%	2.5	490-3624-ND	.31	2.30	16.45	RPE5C2A110J2P1Z03B
			12pF	±5%	2.5	490-3626-ND	.31	2.30	16.45	RPE5C2A120J2P1Z03B
			13pF	±5%	2.5	490-3627-ND	.31	2.30	16.45	RPE5C2A130J2P1Z03B
			15pF	±5%	2.5	490-3629-ND	.28	2.10	14.98	RPE5C2A150J2P1Z03B
			16pF	±5%	2.5	490-3630-ND	.31	2.30	16.45	RPE5C2A160J2P1Z03B
			18pF	±5%	2.5	490-3632-ND	.28	2.10	14.98	RPE5C2A180J2P1Z03B
			20pF	±5%	2.5	490-3637-ND	.31	2.30	16.45	RPE5C2A200J2P1Z03B
			22pF	±5%	2.5	490-3639-ND	.28	2.10	14.98	RPE5C2A220J2P1Z03B
			24pF	±5%	2.5	490-3640-ND	.31	2.30	16.45	RPE5C2A240J2P1Z03B
			27pF	±5%	2.5	490-3642-ND	.28	2.10	14.98	RPE5C2A270J2P1Z03B
			30pF	±5%	2.5	490-3648-ND	.31	2.30	16.45	RPE5C2A300J2P1Z03B
			33pF	±5%	2.5	490-3650-ND	.28	2.10	14.98	RPE5C2A330J2P1Z03B
			39pF	±5%	2.5	490-3652-ND	.28	2.10	14.98	RPE5C2A390J2P1Z03B
			43pF	±5%	2.5	490-3655-ND	.31	2.30	16.45	RPE5C2A430J2P1Z03B
			47pF	±5%	2.5	490-3657-ND	.28	2.10	14.98	RPE5C2A470J2P1Z03B
			56pF	±5%	2.5	490-3661-ND	.31	2.30	16.45	RPE5C2A560J2P1Z03B
			75pF	±5%	2.5	490-3666-ND	.31	2.30	16.45	RPE5C2A750J2P1Z03B
			82pF	±5%	2.5	490-3668-ND	.31	2.30	16.45	RPE5C2A820J2P1Z03B
			91pF	±5%	2.5	490-3669-ND	.31	2.30	16.45	RPE5C2A910J2P1Z03B
			100pF	±5%	2.5	490-3622-ND	.28	2.10	14.98	RPE5C2A101J2P1Z03B
			120pF	±5%	2.5	490-3625-ND	.31	2.30	16.45	RPE5C2A121J2P1Z03B
			150pF	±5%	2.5	490-3628-ND	.31	2.30	16.45	RPE5C2A151J2P1Z03B
			180pF	±5%	2.5	490-3631-ND	.28	2.10	14.98	RPE5C2A181J2P1Z03B
			200pF	±5%	2.5	490-3636-ND	.31	2.30	16.45	RPE5C2A201J2P1Z03B
			220pF	±5%	2.5	490-3638-ND	.31	2.30	16.45	RPE5C2A221J2P1Z03B
			270pF	±5%	2.5	490-3641-ND	.28	2.10	14.98	RPE5C2A271J2P1Z03B
			300pF	±5%	2.5	490-3647-ND	.33	2.40	17.18	RPE5C2A301J2P1Z03B
			330pF	±5%	2.5	490-3649-ND	.33	2.40	17.18	RPE5C2A331J2P1Z03B
			390pF	±5%	2.5	490-3651-ND	.33	2.40	17.18	RPE5C2A391J2P1Z03B
			430pF	±5%	2.5	490-3654-ND	.34	2.51	17.93	RPE5C2A431J2P1Z03B
			470pF	±5%	2.5	490-3656-ND	.34	2.51	17.93	RPE5C2A471J2P1Z03B
			560pF	±5%	2.5	490-3660-ND	.31	2.28	16.30	RPE5C2A561J2P1B03B
			680pF	±5%	2.5	490-3664-ND	.38	2.81	20.08	RPE5C2A681J2P1B03B
			750pF	±5%	2.5	490-3665-ND	.38	2.81	20.08	RPE5C2A751J2P1B03B
			820pF	±5%	3.15	490-3667-ND	.35	2.56	18.30	RPE5C2A821J2P1B03B
			1000pF	±5%	3.15	490-3621-ND	.41	3.01	21.53	RPE5C2A102J2P1B03B
		50	1.0pF	±0.25pF	2.5	490-3670-ND	.28	2.04	14.55	RPE5C1H1R0C2P1B03B
			1.2pF	±0.25pF	2.5	490-3671-ND	.30	2.24	15.98	RPE5C1H1R2C2P1B03B
			1.5pF	±0.25pF	2.5	490-3672-ND	.30	2.24	15.98	RPE5C1H1R5C2P1B03B
			2.0pF	±0.25pF	2.5	490-3700-ND	.28	2.04	14.55	RPE5C1H2R0C2P1B03B
			2.2pF	±0.25pF	2.5	490-3701-ND	.30	2.24	15.98	RPE5C1H2R2C2P1B03B
			2.7pF	±0.25pF	2.5	490-3702-ND	.30	2.24	15.98	RPE5C1H2R7C2P1B03B
			3.0pF	±0.25pF	2.5	490-3717-ND	.30	2.24	15.98	RPE5C1H3R0C2P1B03B
			3.3pF	±0.25pF	2.5	490-3718-ND	.30	2.24	15.98	RPE5C1H3R3C2P1B03B
			3.9pF	±0.25pF	2.5	490-3719-ND	.30	2.24	15.98	RPE5C1H3R9C2P1B03B
			4.0pF	±0.25pF	2.5	490-3734-ND	.28	2.04	14.55	RPE5C1H4R0C2P1B03B
			4.7pF	±0.25pF	2.5	490-3735-ND	.30	2.24	15.98	RPE5C1H4R7C2P1B03B
			5.1pF	±0.25pF	2.5	490-3743-ND	.36	2.62	18.73	RPE5C1H5R1C2P1B03B
			5.6pF	±0.25pF	2.5	490-3744-ND	.36	2.62	18.73	RPE5C1H5R6C2P1B03B
			6.0pF	±0.5pF	2.5	490-3752-ND	.28	2.04	14.55	RPE5C1H6R0D2P1B03B
			6.8pF	±0.25pF	2.5	490-3753-ND	.36	2.62	18.73	RPE5C1H6R8C2P1B03B
			7.0pF	±0.5pF	2.5	490-3760-ND	.30	2.24	15.98	RPE5C1H7R0D2P1Z03B
			8.0pF	±0.5pF	2.5	490-3763-ND	.30	2.24	15.98	RPE5C1H8R0D2P1Z03B
			8.2pF	±0.25pF	2.5	490-3764-ND	.36	2.62	18.73	RPE5C1H8R2C2P1Z03B
			9.0pF	±0.5pF	2.5	490-3771-ND	.30	2.24	15.98	RPE5C1H9R0D2P1Z03B
			9.1pF	±0.25pF	2.5	490-3772-ND	.36	2.62	18.73	RPE5C1H9R1C2P1Z03B
			10pF	±5%	2.5	490-3678-ND	.28	2.04	14.55	RPE5C1H100J2P1Z03B
			12pF	±5%	2.5	490-3684-ND	.28	2.04	14.55	RPE5C1H120J2P1Z03B
			13pF	±5%	2.5	490-3686-ND	.30	2.24	15.98	RPE5C1H130J2P1Z03B
			15pF	±5%	2.5	490-3691-ND	.28	2.04	14.55	RPE5C1H150J2P1Z03B
			18pF	±5%	2.5	490-3697-ND	.30	2.24	15.98	RPE5C1H180J2P1Z03B
			20pF	±5%	2.5	490-3703-ND	.30	2.24	15.98	RPE5C1H200J2P1Z03B
			22pF	±5%	2.5	490-3708-ND	.28	2.04	14.55	RPE5C1H220J2P1Z03B
			24pF	±5%	2.5	490-3710-ND	.30	2.24	15.98	RPE5C1H240J2P1Z03B
			27pF	±5%	2.5	490-3714-ND	.28	2.04	14.55	RPE5C1H270J2P1Z03B
			30pF	±5%	2.5	490-3721-ND	.30	2.24	15.98	RPE5C1H300J2P1Z03B
			33pF	±5%	2.5	490-3725-ND	.28	2.04	14.55	RPE5C1H330J2P1Z03B
			39pF	±5%	2.5	490-3731-ND	.30	2.24	15.98	RPE5C1H390J2P1Z03B
			43pF	±5%	2.5	490-3736-ND	.30	2.24	15.98	RPE5C1H430J2P1Z03B
			47pF	±5%	2.5	490-3740-ND	.30	2.24	15.98	RPE5C1H470J2P1Z03B
			51pF	±5%	2.5	490-3745-ND	.30	2.24	15.98	RPE5C1H510J2P1Z03B
			56pF	±5%	2.5	490-3749-ND	.28	2.04	14.55	RPE5C1H560J2P1Z03B
			68pF	±5%	2.5	490-3757-ND	.30	2.24	15.98	RPE5C1H680J2P1Z03B
			75pF	±5%	2.5	490-3761-ND	.30	2.24	15.98	RPE5C1H750J2P1Z03B
			82pF	±5%	2.5	490-3768-ND	.28	2.04	14.55	RPE5C1H820J2P1Z03B
			91pF	±5%	2.5	490-3773-ND	.30	2.24	15.98	RPE5C1H910J2P1Z03B
			100pF	±5%	2.5	490-3676-ND	.29	2.17	15.50	RPE5C1H101J2P1A03B
			120pF	±5%	2.5	490-3682-ND	.29	2.17	15.50	RPE5C1H121J2P1A03B
			150pF	±5%	2.5	490-3689-ND	.29	2.17	15.50	RPE5C1H151J2P1A03B
			180pF	±5%	2.5	490-3695-ND	.29	2.17	15.50	RPE5C1H181J2P1A03B
			220pF	±5%	2.5	490-3706-ND	.29	2.17	15.50	RPE5C1H221J2P1A03B
			270pF	±5%	2.5	490-3712-ND	.29	2.17	15.50	RPE5C1H271J2P1A03B
			300pF	±5%	2.5	490-3720-ND	.30	2.24	15.98	RPE5C1H301J2P1A03B
			330pF	±5%	2.5	490-3723-ND	.30	2.24	15.98	RPE5C1H331J2P1A03B
			360pF	±5%	2.5	490-3727-ND	.30	2.24	15.98	RPE5C1H361J2P1A03B
			390pF	±5%	2.5	490-3729-ND	.30	2.24	15.98	RPE5C1H391J2P1A03B
			470pF	±5%	2.5	490-3738-ND	.32	2.33	16.63	RPE5C1H471J2P1A03B
			560pF	±5%	2.5	490-3747-ND	.32	2.33	16.63	RPE5C1H561J2P1A03B
			680pF	±5%	2.5	490-3755-ND	.34	2.49	17.78	RPE5C1H681J2P1A03B
			820pF	±5%	2.5	490-3766-ND	.34	2.49	17.78	RPE5C1H821J2P1A03B
			1000pF	±5%	2.5	490-3674-ND	.38	2.82	20.15	RPE5C1H102J2P1A03B
			1200pF	±5%	3.15	490-3680-ND	.38	2.82	20.15	RPE5C1H122J2P1A03B
			1500pF	±5%	3.15	490-3687-ND	.45	3.31	23.68	RPE5C1H152J2P1A03B
			1800pF	±5%	3.15	490-3693-ND	.45	3.35	23.90	RPE5C1H182J2P1C03B
			2200pF	±5%	3.15	490-3704-ND	.45	3.35	23.90	RPE5C1H222J2P1C03B
	X7R	100	220pF	±10%	2.5	490-3780-ND	.28	2.10	14.98	RPER72A221K2P1B03B
			270pF	±10%	2.5	490-3782-ND	.31	2.30	16.45	RPER72A271K2P1B03B
			330pF	±10%	2.5	490-3784-ND	.28	2.10	14.98	RPER72A331K2P1B03B
			470pF	±10%	2.5	490-3786-ND	.28	2.10	14.98	RPER72A471K2P1B03B
			680pF	±10%	2.5	490-3788-ND	.28	2.10	14.98	RPER72A681K2P1B03B
			820pF	±10%	2.5	490-3790-ND	.31	2.30	16.45	RPER72A821K2P1B03B
			1000pF	±10%	2.5	490-3774-ND	.26	1.88	13.43	RPER72A102K2P1A03B
			1200pF	±10%	2.5	490-3776-ND	.26	1.92	13.70	RPER72A122K2P1A03B
			1500pF	±10%	2.5	490-3777-ND	.26	1.92	13.70	RPER72A152K2P1A03B
			1800pF	±10%	2.5	490-3778-ND	.26	1.92	13.70	RPER72A182K2P1A03B
			2200pF	±10%	2.5	490-3779-ND	.26	1.88	13.43	RPER72A222K2P1A03B
			2700pF	±10%	2.5	490-3781-ND	.26	1.92	13.70	RPER72A272K2P1A03B
			3300pF	±10%	2.5	490-3783-ND	.26	1.92	13.70	RPER72A332K2P1A03B
			4700pF	±10%	2.5	490-3785-ND	.26	1.88	13.43	RPER72A472K2P1A03B
			5600pF	±10%	2.5	490-3787-ND	.32	2.36	16.85	RPER72A562K2P1A03B
			8200pF	±10%	3.15	490-3789-ND	.33	2.40	17.18	RPER72A822K2P1A03B
			12000pF	±10%	3.15	490-3775-ND	.34	2.51	17.93	RPER72A123K2P1A03B
		50	220pF	±10%	2.5	490-3829-ND	.22	1.65	11.78	RPER71H221K2P1A03B
			330pF	±10%	2.5	490-3837-ND	.22	1.59	11.38	RPER71H331K2P1A03B
			390pF	±10%	2.5	490-3840-ND	.24	1.75	12.50	RPER71H391K2P1A03B
			470pF	±10%	2.5	490-3846-ND	.19	1.43	10.23	RPER71H471K2P1A03B
			560pF	±10%	2.5	490-3850-ND	.22	1.60	11.43	RPER71H561K2P1A03B
			680pF	±10%	2.5	490-3856-ND	.20	1.46	10.43	RPER71H681K2P1A03B
			820pF	±10%	2.5	490-3858-ND	.22	1.60	11.43	RPER71H821K2P1A03B
			1000pF	±10%	2.5	490-3814-ND	.21	1.54	10.98	RPER71H102K2P1A03B
			1200pF	±10%	2.5	490-3816-ND	.23	1.72	12.30	RPER71H122K2P1A03B
			1500pF	±10%	2.5	490-3820-ND	.21	1.57	11.20	RPER71H152K2P1A03B
			1800pF	±10%	2.5	490-3823-ND	.23	1.72	12.30	RPER71H182K2P1A03B
			2200pF	±10%	2.5	490-3827-ND	.21	1.54	10.98	RPER71H222K2P1A03B
			2700pF	±10%	2.5	490-3831-ND	.24	1.75	12.48	RPER71H272K2P1A03B
			3300pF	±10%	2.5	490-3835-ND	.22	1.59	11.38	RPER71H332K2P1A03B
			3900pF	±10%	2.5	490-3839-ND	.24	1.75	12.48	RPER71H392K2P1A03B
			4700pF	±10%	2.5	490-3844-ND	.21	1.56	11.13	RPER71H472K2P1A03B
			6800pF	±10%	2.5	490-3854-ND	.22	1.59	11.38	RPER71H682K2P1A03B
			10000pF	±10%	2.5	490-3812-ND	.17	1.22	8.70	RPER71H103K2P1A03B
			15000pF	±10%	2.5	490-3818-ND	.22	1.59	11.38	RPER71H153K2P1A03B

(Continued)

NEW! Monolithic Ceramic Capacitors RPE Series *(Cont.)*

Fig.	Type	WV Vdc	Capaci-tance	Toler-ance	Dim. T (mm)	Digi-Key Part No.	Bulk Pricing 1	10	100	Murata Part No.
1	X7R	50	18000pF	±10%	2.5	490-3822-ND	.24	1.75	12.48	RPER71H183K2P1A03B
			22000pF	±10%	2.5	490-3825-ND	.18	1.35	9.63	RPER71H223K2P1A03B
			33000pF	±10%	3.15	490-3833-ND	.19	1.39	9.90	RPER71H333K2P1A03B
			47000pF	±10%	3.15	490-3842-ND	.20	1.47	10.50	RPER71H473K2P1A03B
			56000pF	±10%	3.15	490-3848-ND	.31	2.26	16.13	RPER71H563K2P1A03B
			68000pF	±10%	3.15	490-3852-ND	.34	2.47	17.68	RPER71H683K2P1A03B
			.1µF	±10%	3.15	490-3810-ND	.16	1.21	8.65	RPER71H104K2P1A03B
	Z5U	100	3300pF	±20%	2.5	490-3870-ND	.52	3.82	27.28	RPEE42A332M2P1B03B
			4700pF	±20%	2.5	490-3871-ND	.52	3.82	27.28	RPEE42A472M2P1B03B
			6800pF	±20%	2.5	490-3872-ND	.48	3.55	25.38	RPEE42A682M2P1B03B
			10000pF	±20%	2.5	490-3868-ND	.46	3.38	24.15	RPEE42A103M2P1B03B
			15000pF	±20%	2.5	490-3869-ND	.50	3.71	26.50	RPEE42A153M2P1B03B
		50	1000pF	±20%	2.5	490-3875-ND	.23	1.70	12.15	RPEE41H102M2P1A03B
			2200pF	±20%	2.5	490-3877-ND	.24	1.74	12.40	RPEE41H222M2P1A03B
			3300pF	±20%	2.5	490-3879-ND	.24	1.76	12.58	RPEE41H332M2P1A03B
			4700pF	±20%	2.5	490-3881-ND	.24	1.76	12.58	RPEE41H472M2P1A03B
			10000pF	±20%	2.5	490-3874-ND	.18	1.29	9.23	RPEE41H103M2P1A03B
			22000pF	±20%	2.5	490-3876-ND	.18	1.32	9.43	RPEE41H223M2P1A03B
			33000pF	±20%	2.5	490-3878-ND	.20	1.45	10.38	RPEE41H333M2P1B03B
			47000pF	±20%	2.5	490-3880-ND	.18	1.32	9.43	RPEE41H473M2P1A03B
			.1µF	±20%	2.5	490-3873-ND	.11	.83	5.90	RPEE41H104M2P1A03B
2	C0G	50	1.0pF	±0.25pF	2.5	490-3699-ND	.32	2.35	16.80	RPE5C1H1R0C2K1B03B
			2.0pF	±0.25pF	2.5	490-3716-ND	.28	2.04	14.55	RPE5C1H2R0C2K1B03B
			3.0pF	±0.25pF	2.5	490-3733-ND	.32	2.35	16.80	RPE5C1H3R0C2K1B03B
			4.0pF	±0.25pF	2.5	490-3742-ND	.32	2.35	16.80	RPE5C1H4R0C2K1B03B
			5.0pF	±0.25pF	2.5	490-3751-ND	.29	2.11	15.10	RPE5C1H5R0C2K1B03B
			6.0pF	±0.5pF	2.5	490-3759-ND	.28	2.04	14.55	RPE5C1H6R0D2K1B03B
			7.0pF	±0.5pF	2.5	490-3762-ND	.28	2.04	14.55	RPE5C1H7R0D2K1Z03B
			8.0pF	±0.5pF	2.5	490-3770-ND	.29	2.11	15.10	RPE5C1H8R0D2K1Z03B
			10pF	±5%	2.5	490-3679-ND	.28	2.04	14.55	RPE5C1H100J2K1Z03B
			12pF	±5%	2.5	490-3685-ND	.28	2.04	14.55	RPE5C1H120J2K1Z03B
			15pF	±5%	2.5	490-3692-ND	.28	2.04	14.55	RPE5C1H150J2K1Z03B
			18pF	±5%	2.5	490-3698-ND	.28	2.04	14.55	RPE5C1H180J2K1Z03B
			22pF	±5%	2.5	490-3709-ND	.28	2.04	14.55	RPE5C1H220J2K1Z03B
			27pF	±5%	2.5	490-3715-ND	.32	2.35	16.80	RPE5C1H270J2K1Z03B
			33pF	±5%	2.5	490-3726-ND	.28	2.04	14.55	RPE5C1H330J2K1Z03B
			39pF	±5%	2.5	490-3732-ND	.28	2.04	14.55	RPE5C1H390J2K1Z03B
			47pF	±5%	2.5	490-3741-ND	.28	2.04	14.55	RPE5C1H470J2K1Z03B
			56pF	±5%	2.5	490-3750-ND	.28	2.04	14.55	RPE5C1H560J2K1A03B
			68pF	±5%	2.5	490-3758-ND	.28	2.04	14.55	RPE5C1H680J2K1Z03B
			82pF	±5%	2.5	490-3769-ND	.32	2.35	16.80	RPE5C1H820J2K1Z03B
			100pF	±5%	2.5	490-3677-ND	.27	2.01	14.38	RPE5C1H101J2K1A03B
			120pF	±5%	2.5	490-3683-ND	.27	2.01	14.38	RPE5C1H121J2K1A03B
			150pF	±5%	2.5	490-3690-ND	.27	2.01	14.38	RPE5C1H151J2K1A03B
			180pF	±5%	2.5	490-3696-ND	.27	2.01	14.38	RPE5C1H181J2K1A03B
			220pF	±5%	2.5	490-3707-ND	.27	2.01	14.38	RPE5C1H221J2K1A03B
			270pF	±5%	2.5	490-3713-ND	.27	2.01	14.38	RPE5C1H271J2K1A03B
			330pF	±5%	2.5	490-3724-ND	.28	2.08	14.85	RPE5C1H331J2K1A03B
			390pF	±5%	2.5	490-3730-ND	.28	2.08	14.85	RPE5C1H391J2K1A03B
2	C0G	50	470pF	±5%	2.5	490-3739-ND	.29	2.16	15.45	RPE5C1H471J2K1A03B
			560pF	±5%	2.5	490-3748-ND	.29	2.16	15.45	RPE5C1H561J2K1A03B
			680pF	±5%	2.5	490-3756-ND	.31	2.31	16.50	RPE5C1H681J2K1A03B
			820pF	±5%	2.5	490-3767-ND	.31	2.31	16.50	RPE5C1H821J2K1A03B
			1000pF	±5%	2.5	490-3675-ND	.36	2.62	18.73	RPE5C1H102J2K1A03B
			1200pF	±5%	3.15	490-3681-ND	.36	2.62	18.73	RPE5C1H122J2K1A03B
			1500pF	±5%	3.15	490-3688-ND	.42	3.07	21.95	RPE5C1H152J2K1A03B
			1800pF	±5%	3.15	490-3694-ND	.46	3.38	24.15	RPE5C1H182J2K1A03B
			2200pF	±5%	3.15	490-3705-ND	.46	3.38	24.15	RPE5C1H222J2K1A03B
			2700pF	±5%	3.15	490-3711-ND	.46	3.38	24.15	RPE5C1H272J2K1A03B
			3300pF	±5%	3.15	490-3722-ND	.51	3.76	26.85	RPE5C1H332J2K1A03B
			3900pF	±5%	3.15	490-3728-ND	.54	4.01	28.65	RPE5C1H392J2K1A03B
			4700pF	±5%	3.15	490-3737-ND	.56	4.13	29.53	RPE5C1H472J2K1A03B
			5600pF	±5%	3.15	490-3746-ND	.56	4.13	29.53	RPE5C1H562J2K1A03B
			6800pF	±5%	3.15	490-3754-ND	.56	4.13	29.53	RPE5C1H682J2K1C03B
			8200pF	±5%	3.15	490-3765-ND	.65	4.79	34.23	RPE5C1H822J2K1C03B
			10000pF	±5%	3.15	490-3673-ND	.69	5.09	36.38	RPE5C1H103J2K1C03B
	X7R	50	220pF	±10%	2.5	490-3830-ND	.23	1.67	11.90	RPER71H221K2K1A03B
			330pF	±10%	2.5	490-3838-ND	.30	2.22	15.85	RPER71H331K2K1A03B
			470pF	±10%	2.5	490-3847-ND	.19	1.43	10.23	RPER71H471K2K1A03B
			680pF	±10%	2.5	490-3857-ND	.20	1.46	10.43	RPER71H681K2K1A03B
			1000pF	±10%	2.5	490-3815-ND	.21	1.54	10.98	RPER71H102K2K1A03B
			1500pF	±10%	2.5	490-3821-ND	.21	1.57	11.20	RPER71H152K2K1A03B
			2200pF	±10%	2.5	490-3828-ND	.21	1.54	10.98	RPER71H222K2K1A03B
			3300pF	±10%	2.5	490-3836-ND	.22	1.59	11.38	RPER71H332K2K1A03B
			4700pF	±10%	2.5	490-3845-ND	.21	1.56	11.13	RPER71H472K2K1A03B
			5600pF	±10%	2.5	490-3849-ND	.24	1.75	12.48	RPER71H562K2P1A03B
			6800pF	±10%	2.5	490-3855-ND	.22	1.59	11.38	RPER71H682K2K1A03B
			10000pF	±10%	2.5	490-3813-ND	.17	1.22	8.70	RPER71H103K2K1A03B
			15000pF	±10%	2.5	490-3819-ND	.22	1.59	11.38	RPER71H153K2K1A03B
			22000pF	±10%	2.5	490-3826-ND	.18	1.35	9.63	RPER71H223K2K1A03B
			33000pF	±10%	3.15	490-3834-ND	.19	1.39	9.90	RPER71H333K2K1A03B
			47000pF	±10%	3.15	490-3843-ND	.20	1.47	10.50	RPER71H473K2K1A03B
			68000pF	±10%	3.15	490-3853-ND	.31	2.26	16.13	RPER71H683K2K1A03B
			.1µF	±10%	3.15	490-3811-ND	.16	1.21	8.65	RPER71H104K2K1A03B
			.15µF	±10%	3.15	490-3817-ND	.53	3.92	28.00	RPER71H154K2K1C03B
			.22µF	±10%	3.15	490-3824-ND	.48	3.52	25.15	RPER71H224K2K1C03B
			.33µF	±10%	3.15	490-3832-ND	.62	4.54	32.40	RPER71H334K2K1C03B
			.47µF	±10%	3.15	490-3841-ND	.59	4.38	31.28	RPER71H474K2K1C03B
	Y5V	50	1000pF	±80%-20%	2.5	490-3861-ND	.22	1.61	11.53	RPEF51H102Z2K1A03B
			2200pF	±80%-20%	2.5	490-3864-ND	.22	1.61	11.53	RPEF51H222Z2K1A03B
			4700pF	±80%-20%	2.5	490-3867-ND	.22	1.61	11.53	RPEF51H472Z2K1A03B
			10000pF	±80%-20%	2.5	490-3860-ND	.17	1.24	8.88	RPEF51H103Z2K1A03B
			22000pF	±80%-20%	2.5	490-3863-ND	.17	1.28	9.13	RPEF51H223Z2K1A03B
			47000pF	±80%-20%	2.5	490-3866-ND	.17	1.28	9.13	RPEF51H473Z2K1A03B
			.1µF	±80%-20%	2.5	490-3859-ND	.09	.69	4.90	RPEF51H104Z2K1A03B
			.22µF	±80%-20%	3.15	490-3862-ND	.20	1.49	10.68	RPEF51H224Z2K1A03B
			.47µF	±80%-20%	3.15	490-3865-ND	.31	2.28	16.28	RPEF51H474Z2K1C03B
3	X7R	50	.68µF	±10%	3.15	490-3851-ND	1.48	10.89	77.75	RPER71H684K3K1C03B

NEW! Monolithic Ceramic Capacitors

RDE Series

RoHS COMPLIANT

Features:

- Small size and large capacitance
- Low ESR characteristics for high frequency
- Coated with epoxy resin whose flammability is equivalent to UL94V-0

Fig. 1 — Inside Crimp

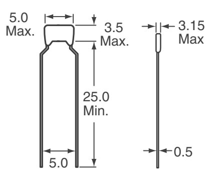

Fig. 2 — Inside Crimp

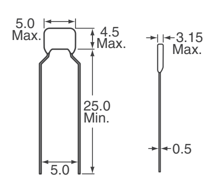

Fig. 3 — Inside Crimp

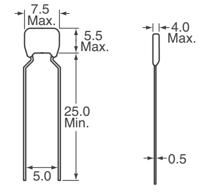

Fig. 4 — Straight Long

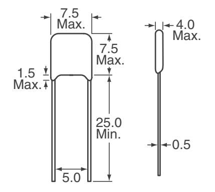

Fig. 5 — Straight Long

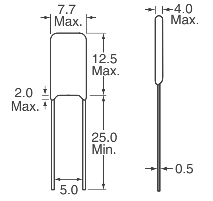

Fig.	Type	WV Vdc	Capaci-tance	Toler-ance	Digi-Key Part No.	Bulk Pricing 1	10	100	Murata Part No.
1	X7R	500	1000pF	±10%	490-3798-ND	.49	3.60	25.70	RDER72H102K2K1C11B
		500	1500pF	±10%	490-3800-ND	.59	4.38	31.25	RDER72H152K2K1C11B
		500	2200pF	±10%	490-3803-ND	.59	4.38	31.25	RDER72H222K2K1C11B
		500	3300pF	±10%	490-3805-ND	.59	4.38	31.25	RDER72HH332K21C11B
		500	4700pF	±10%	490-3808-ND	.91	6.67	47.65	RDER72H472K2K1C11B
		500	6800pF	±10%	490-3809-ND	1.02	7.54	53.83	RDER72H682K2K1C11B
		500	10000pF	±10%	490-3797-ND	.49	3.60	25.70	RDER72H103K2K1C11B
		500	15000pF	±10%	490-3799-ND	2.06	15.17	108.38	RDER72H153K2K1C11B
		200	15000pF	±10%	490-3792-ND	.62	4.56	32.58	RDER72D153K2K1C11B
2	X7R	500	33000pF	±10%	490-3804-ND	1.70	12.53	89.48	RDER72H333K3K1C11B
		500	47000pF	±10%	490-3807-ND	1.71	12.63	90.20	RDER72H473K3K1C11B
		500	68000pF	±10%	490-3795-ND	1.00	7.33	52.38	RDER72D683K3K1C11B
		500	22000pF	±10%	490-3802-ND	1.70	12.53	89.48	RDER72H223K3K1C11B
		200	.1µF	±10%	490-3791-ND	2.12	15.63	111.65	RDER72D104K3K1C11B
3	X7R	500	.10µF	±10%	490-3796-ND	6.60	48.63	347.33	RDER72H104K8K1C11B
		200	.22µF	±10%	490-3793-ND	3.19	23.52	168.03	RDER72D224K8K1C11B
4	X7R	500	.22µF	±10%	490-3801-ND	3.70	27.24	194.58	RDER72H224K5B1C13B
		200	.47µF	±10%	490-3794-ND	5.96	43.89	313.50	RDER72D474K5B1C13B
5	X7R	500	.47µF	±20%	490-3806-ND	5.12	37.73	269.50	RDER72H474MUB1C13B

muRata
Innovator in Electronics

Monolithic Ceramic Chip Capacitors GJM Series

Size Code	Dimensions (mm)			
	L	W	e	g (min.)
0201	0.6±-0.03	0.3±-0.03	0.1 ~ 0.2	0.2
0402	1.0±-0.05	0.5±-0.05	0.15 ~ 0.3	0.4

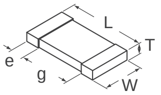

GJM Series: The Murata GJM Series is a high Q, ultra small capacitor series for high frequency applications in the 500MHz ~ 10GHz range, suitable for VCO and PA Module applications. The GJM Series of capacitors are made with copper electrodes for low ESR and low power consumption due to the high Q (low loss) performance. This series is offered in EIA sizes 0201 and 0402. They are lead free/RoHS compliant. **Features:** • Better Q and low ESR at VHF, UHF, and microwave frequencies • Copper inner electrode • Low power consumption, yield ratio improvement due to the better Q or lower ESR • VCO or PA module applications **Operating Temperature Range:** • C0G (NP0): -55°C ~ 125°C

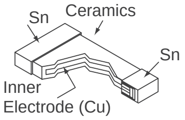

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Size	Pricing	
0201	C0G (NP0)	25	.75pF	±.25pF	0.3	490-3052-1-ND	1.16	6.83	19.69	490-3052-2-ND	15,000	18.90/M	GJM0335C1ER75CB01D
			1.0pF			490-3053-1-ND	1.16	6.83	19.69	490-3053-2-ND	15,000	18.90/M	GJM0335C1E1R0CB01D
			1.1pF			490-3054-1-ND	1.16	6.83	19.69	490-3054-2-ND	15,000	18.90/M	GJM0335C1E1R1CB01D
			1.2pF			490-3055-1-ND	1.16	6.83	19.69	490-3055-2-ND	15,000	18.90/M	GJM0335C1E1R2CB01D
			1.3pF			490-3056-1-ND	1.16	6.83	19.69	490-3056-2-ND	15,000	18.90/M	GJM0335C1E1R3CB01D
			1.5pF	±.25pF	0.3	490-3057-1-ND	1.16	6.83	19.69	490-3057-2-ND	15,000	18.90/M	GJM0335C1E1R5CB01D
			1.6pF			490-3058-1-ND	1.16	6.83	19.69	490-3058-2-ND	15,000	18.90/M	GJM0335C1E1R6CB01D
			1.8pF			490-3059-1-ND	1.16	6.83	19.69	490-3059-2-ND	15,000	18.90/M	GJM0335C1E1R8CB01D
			2.0pF			490-3060-1-ND	1.16	6.83	19.69	490-3060-2-ND	15,000	18.90/M	GJM0335C1E2R0CB01D
			2.2pF			490-3061-1-ND	1.16	6.83	19.69	490-3061-2-ND	15,000	18.90/M	GJM0335C1E2R2CB01D
			2.4pF	±.25pF	0.3	490-3062-1-ND	1.16	6.83	19.69	490-3062-2-ND	15,000	18.90/M	GJM0335C1E2R4CB01D
			2.7pF			490-3063-1-ND	1.16	6.83	19.69	490-3063-2-ND	15,000	18.90/M	GJM0335C1E2R7CB01D
			3.0pF			490-3064-1-ND	1.16	6.83	19.69	490-3064-2-ND	15,000	18.90/M	GJM0335C1E3R0CB01D
			3.3pF			490-3065-1-ND	1.16	6.83	19.69	490-3065-2-ND	15,000	18.90/M	GJM0335C1E3R3CB01D
			3.6pF			490-3066-1-ND	1.16	6.83	19.69	490-3066-2-ND	15,000	18.90/M	GJM0335C1E3R6CB01D
			3.9pF	±.25pF	0.3	490-3067-1-ND	1.16	6.83	19.69	490-3067-2-ND	15,000	18.90/M	GJM0335C1E3R9CB01D
			4.0pF			490-3068-1-ND	1.16	6.83	19.69	490-3068-2-ND	15,000	18.90/M	GJM0335C1E4R0CB01D
			4.3pF			490-3069-1-ND	1.16	6.83	19.69	490-3069-2-ND	15,000	18.90/M	GJM0335C1E4R3CB01D
			4.7pF			490-3070-1-ND	1.16	6.83	19.69	490-3070-2-ND	15,000	18.90/M	GJM0335C1E4R7CB01D
			5.0pF			490-3071-1-ND	1.16	6.83	19.69	490-3071-2-ND	15,000	18.90/M	GJM0335C1E5R0CB01D
			5.1pF	±.25pF	0.3	490-3072-1-ND	1.16	6.83	19.69	490-3072-2-ND	15,000	18.90/M	GJM0335C1E5R1CB01D
			5.6pF			490-3073-1-ND	1.16	6.83	19.69	490-3073-2-ND	15,000	18.90/M	GJM0335C1E5R6CB01D
			6.0pF			490-3074-1-ND	1.16	6.83	19.69	490-3074-2-ND	15,000	18.90/M	GJM0335C1E6R0CB01D
			6.8pF			490-3076-1-ND	1.16	6.83	19.69	490-3076-2-ND	15,000	18.90/M	GJM0335C1E6R8CB01D
0402	C0G (NP0)	50	1.0pF	±.25pF	0.5	490-3083-1-ND	.70	4.16	12.00	490-3083-2-ND	10,000	11.52/M	GJM1555C1H1R0CB01D
			1.1pF			490-3084-1-ND	.70	4.16	12.00	490-3084-2-ND	10,000	11.52/M	GJM1555C1H1R1CB01D
			1.2pF			490-3085-1-ND	.70	4.16	12.00	490-3085-2-ND	10,000	11.52/M	GJM1555C1H1R2CB01D
			1.3pF			490-3086-1-ND	.70	4.16	12.00	490-3086-2-ND	10,000	11.52/M	GJM1555C1H1R3CB01D
			1.5pF			490-3087-1-ND	.70	4.16	12.00	490-3087-2-ND	10,000	11.52/M	GJM1555C1H1R5CB01D
			1.6pF	±.25pF	0.5	490-3088-1-ND	.77	4.55	13.13	490-3088-2-ND	10,000	12.60/M	GJM1555C1H1R6CB01D
			1.8pF			490-3089-1-ND	.70	4.16	12.00	490-3089-2-ND	10,000	11.52/M	GJM1555C1H1R8CB01D
			2.0pF			490-3090-1-ND	.70	4.16	12.00	490-3090-2-ND	10,000	11.52/M	GJM1555C1H2R0CB01D
			2.2pF			490-3091-1-ND	.70	4.16	12.00	490-3091-2-ND	10,000	11.52/M	GJM1555C1H2R2CB01D
			2.4pF			490-3092-1-ND	.70	4.16	12.00	490-3092-2-ND	10,000	11.52/M	GJM1555C1H2R4CB01D
			2.7pF	±.25pF	0.5	490-3093-1-ND	.70	4.16	12.00	490-3093-2-ND	10,000	11.52/M	GJM1555C1H2R7CB01D
			3.0pF			490-3094-1-ND	.70	4.16	12.00	490-3094-2-ND	10,000	11.52/M	GJM1555C1H3R0CB01D
			3.3pF			490-3095-1-ND	.70	4.16	12.00	490-3095-2-ND	10,000	11.52/M	GJM1555C1H3R3CB01D
			3.6pF			490-3096-1-ND	.70	4.16	12.00	490-3096-2-ND	10,000	11.52/M	GJM1555C1H3R6CB01D
			3.9pF			490-3097-1-ND	.70	4.16	12.00	490-3097-2-ND	10,000	11.52/M	GJM1555C1H3R9CB01D
			4.0pF	±.25pF	0.5	490-3098-1-ND	.70	4.16	12.00	490-3098-2-ND	10,000	11.52/M	GJM1555C1H4R0CB01D
			4.3pF			490-3099-1-ND	.70	4.16	12.00	490-3099-2-ND	10,000	11.52/M	GJM1555C1H4R3CB01D
			4.7pF			490-3100-1-ND	.70	4.16	12.00	490-3100-2-ND	10,000	11.52/M	GJM1555C1H4R7CB01D
			5.0pF			490-3101-1-ND	.70	4.16	12.00	490-3101-2-ND	10,000	11.52/M	GJM1555C1H5R0CB01D
			5.1pF			490-3102-1-ND	.70	4.16	12.00	490-3102-2-ND	10,000	11.52/M	GJM1555C1H5R1CB01D
			5.6pF	±.25pF	0.5	490-3103-1-ND	.70	4.16	12.00	490-3103-2-ND	10,000	11.52/M	GJM1555C1H5R6CB01D
			6.0pF			490-3104-1-ND	.70	4.16	12.00	490-3104-2-ND	10,000	11.52/M	GJM1555C1H6R0CB01D
			6.2pF			490-3105-1-ND	.70	4.16	12.00	490-3105-2-ND	10,000	11.52/M	GJM1555C1H6R2CB01D
			6.8pF			490-3106-1-ND	.70	4.16	12.00	490-3106-2-ND	10,000	11.52/M	GJM1555C1H6R8CB01D
			7.0pF			490-3107-1-ND	.70	4.16	12.00	490-3107-2-ND	10,000	11.52/M	GJM1555C1H7R0CB01D
			7.5pF	±.25pF	0.5	490-3108-1-ND	.70	4.16	12.00	490-3108-2-ND	10,000	11.52/M	GJM1555C1H7R5CB01D
			9.0pF	±.25pF		490-3111-1-ND	.70	4.16	12.00	490-3111-2-ND	10,000	11.52/M	GJM1555C1H9R0CB01D
			9.1pF	±.25pF		490-3112-1-ND	.70	4.16	12.00	490-3112-2-ND	10,000	11.52/M	GJM1555C1H9R1CB01D
			12pF	±5%		490-3115-1-ND	.70	4.16	12.00	490-3115-2-ND	10,000	11.52/M	GJM1555C1H120JB01D
			15pF	±5%		490-3117-1-ND	.70	4.16	12.00	490-3117-2-ND	10,000	11.52/M	GJM1555C1H150JB01D
			18pF	±5%		490-3119-1-ND	.70	4.16	12.00	490-3119-2-ND	10,000	11.52/M	GJM1555C1H180JB01D

Multilayer Ceramic Chip Capacitor Arrays GNM Series

GNM Series: Murata's capacitor array offering (GNM Series) includes the following benefits: • Placement cost savings (one placement cycle instead of four or two) • High density mounting due to real estate savings • Capacitor arrays offered in two or four capacitor components • Lead Free/RoHS Compliant **Features:** • High density mounting due to mounting space saving • Mounting cost saving **Applications:** • General electronic equipment • Cellular phones, pagers, camcorders, personal computers, LCD **Operating Temperature Range:** • X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

Size Code	Dimensions (mm)		
	L	W	P
0504	1.37±0.15	1.0±0.15	0.64±0.05
0805	2.0±0.15	1.250±0.15	1.0±0.1 (2-element) 0.5±0.05 (4-element)
1206	3.2±0.15	1.6±0.15	0.8±0.1

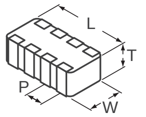

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Murata Part No.
							10	100	500		Size	Pricing	
2–Elements													
0504	X7R	25	2200pF	±20%	0.6	490-3399-1-ND	.60	5.13	21.38	490-3399-2-ND	4,000	23.94/M	GNM1M2R71E222MA01D
		25	4700pF			490-3400-1-ND	.60	5.13	21.38	490-3400-2-ND	4,000	23.94/M	GNM1M2R71E472MA01D
		25	10000pF			490-3401-1-ND	.60	5.13	21.38	490-3401-2-ND	4,000	23.94/M	GNM1M2R71E103MA01D
		16	22000pF			490-3402-1-ND	.61	5.19	21.63	490-3402-2-ND	4,000	24.22/M	GNM1M2R71C223MA01D
		16	47000pF			490-3403-1-ND	.64	5.46	22.75	490-3403-2-ND	4,000	25.48/M	GNM1M2R71C473MA01D
	X5R	10	.1µF	±20%	0.6	490-3404-1-ND	.64	5.46	22.75	490-3404-2-ND	4,000	25.48/M	GNM1M2R61A104MA01D
		10	1.0µF		0.8	490-3405-1-ND	1.25	10.68	44.50	490-3405-2-ND	4,000	49.84/M	GNM1M2R61A105ME14D
		6.3	1.0µF		0.8	490-3406-1-ND	1.25	10.68	44.50	490-3406-2-ND	4,000	49.84/M	GNM1M2R60J105ME12D
0805	X5R	16	1.0µF	±20%	0.85	490-3414-1-ND	1.18	10.08	42.00	490-3414-2-ND	4,000	47.04/M	GNM212R61C105MA16D
		10	1.0µF			490-3413-1-ND	1.36	11.64	48.50	490-3413-2-ND	4,000	54.32/M	GNM212R61A105MA13D
4–Elements													
0805	X7R	50	1000pF	±20%	0.6	490-3407-1-ND	.94	8.07	33.63	490-3407-2-ND	4,000	37.66/M	GNM214R71H102MA01D
		25	2200pF		0.6	490-3408-1-ND	.99	8.49	35.38	490-3408-2-ND	4,000	39.62/M	GNM214R71E222MA01D
		25	4700pF		0.6	490-3409-1-ND	.99	8.49	35.38	490-3409-2-ND	4,000	39.62/M	GNM214R71E472MA01D
		25	10000pF		0.6	490-3410-1-ND	.94	8.07	33.63	490-3410-2-ND	4,000	37.66/M	GNM214R71E103MA01D
		16	22000pF		0.85	490-3411-1-ND	1.03	8.85	36.88	490-3411-2-ND	4,000	41.30/M	GNM214R71C223MA01D
		16	47000pF		0.85	490-3412-1-ND	1.05	9.03	37.63	490-3412-2-ND	4,000	42.14/M	GNM214R71C473MA01D
1206	X7R	16	47000pF	±20%	1.0	490-3443-1-ND	2.07	17.73	73.88	490-3443-2-ND	3,000	82.74/M	GNM314R71C473MA01L
		16	68000pF		1.0	490-3444-1-ND	2.75	23.55	98.13	490-3444-2-ND	3,000	109.90/M	GNM314R71C683MA01L
		6.3	1.0µF		1.15	490-3446-1-ND	2.98	25.53	106.38	490-3446-2-ND	3,000	119.14/M	GNM314R70J105MA01L

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Innovator in Electronics

Multilayer Ceramic Chip Capacitors

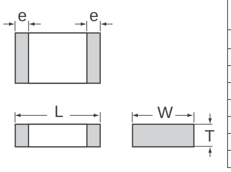

Size Code	Dimensions (mm) L	W	e
0201	0.6	0.3	0.1 ~ 0.2
0402	1	0.5	0.15 ~ 0.3
0603	1.6	0.8	0.2 ~ 0.5
0805	2	1.25	0.2 ~ 0.7
1206	3.2	1.6	0.3 ~ 0.8
1210	3.2	2.5	0.3
1812	4.5	3.2	0.3
2220	5.7	5	0.3

GRM Series:
The Murata GRM series is a complete line of ceramic chip capacitors with a wide range of voltages and sizes. These capacitors have temperature characteristics ranging from C0G to Z5U. GRM series is offered with a Nickel (Ni) barrier termination plated with Tin (Sn), highly resistant to migration and is RoHS compliant. Stringent dimensional tolerances allow highly reliable, high-speed automatic chip placement on PCBs.

GRM Hi-Cap Series:
The Murata Hi-Cap, Ta replacement product lineup is available with capacitance of 1µF and larger, in voltages of 6.3V ~ 50V. Why use ceramic chips over Ta and Al capacitors? Ceramic chips offer better reliability, electrical performance, no polarity, and allow design engineers to downsize designs with various package options. This line of high volumetric multilayer capacitance ceramic chip capacitors (MLCC) has excellent high frequency noise absorption performance compared to Ta and Al caps. For bypass/decoupling applications, MLCC is equivalent to 1/2 to 1/5 the capacitance value of a Ta capacitor because impedance (ESR) of MLCC is lower at higher frequencies (above 100kHz.) Consider Murata Hi-Cap as your Ta capacitor replacement.

Operating Temperature Range:

• C0G (NP0): -55°C ~ 125°C • U2J: 25°C ~ 85°C • X7R: -55°C ~ 125°C • X6S: -55°C ~ 105°C • X5R: -55°C ~ 85°C • Y5V: -30°C ~ 85°C • Z5U: 10°C ~ 85°C

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
0201	C0G (NP0)	25	.5pF	±.25pF	0.3	490-1241-1-ND	.51	2.99	8.63	490-1241-2-ND	15,000	8.28/M	GRM0335C1ER50CD01D
			1.0pF	±.25pF	0.3	490-3122-1-ND	.53	3.12	9.00	490-3122-2-ND	15,000	8.64/M	GRM0335C1E1R0CD01D
			1.1pF	±.25pF	0.3	490-3123-1-ND	.43	2.54	7.31	490-3123-2-ND	15,000	7.02/M	GRM0335C1E1R1CD01D
			1.2pF	±.25pF	0.3	490-1242-1-ND	.53	3.12	9.00	490-1242-2-ND	15,000	8.64/M	GRM0335C1E1R2CD01D
			1.3pF	±.25pF	0.3	490-3124-1-ND	.43	2.54	7.31	490-3124-2-ND	15,000	7.02/M	GRM0335C1E1R3CD01D
			1.5pF	±.25pF	0.3	490-1243-1-ND	.53	3.12	9.00	490-1243-2-ND	15,000	8.64/M	GRM0335C1E1R5CD01D
			1.8pF	±.25pF	0.3	490-1244-1-ND	.53	3.12	9.00	490-1244-2-ND	15,000	8.64/M	GRM0335C1E1R8CD01D
			2.0pF	±.25pF	0.3	490-1245-1-ND	.53	3.12	9.00	490-1245-2-ND	15,000	8.64/M	GRM0335C1E2R0CD01D
			2.2pF	±.25pF	0.3	490-1246-1-ND	.53	3.12	9.00	490-1246-2-ND	15,000	8.64/M	GRM0335C1E2R2CD01D
			2.4pF	±.25pF	0.3	490-1247-1-ND	.53	3.12	9.00	490-1247-2-ND	15,000	8.64/M	GRM0335C1E2R4CD01D
			3.0pF	±.25pF	0.3	490-3127-1-ND	.43	2.54	7.31	490-3127-2-ND	15,000	7.02/M	GRM0335C1E3R0CD01D
			3.3pF	±.25pF	0.3	490-1248-1-ND	.53	3.12	9.00	490-1248-2-ND	15,000	8.64/M	GRM0335C1E3R3CD01D
			3.6pF	±.25pF	0.3	490-1249-1-ND	.53	3.12	9.00	490-1249-2-ND	15,000	8.64/M	GRM0335C1E3R6CD01D
			4.0pF	±.25pF	0.3	490-3129-1-ND	.43	2.54	7.31	490-3129-2-ND	15,000	7.02/M	GRM0335C1E4R0CD01D
			4.3pF	±.25pF	0.3	490-3130-1-ND	.43	2.54	7.31	490-3130-2-ND	15,000	7.02/M	GRM0335C1E4R3CD01D
			4.7pF	±.25pF	0.3	490-3131-1-ND	.34	2.02	5.81	490-3131-2-ND	15,000	5.58/M	GRM0335C1E4R7CD01D
			5.0pF	±.25pF	0.3	490-3132-1-ND	.43	2.54	7.31	490-3132-2-ND	15,000	7.02/M	GRM0335C1E5R0CD01D
			5.1pF	±.5pF	0.3	490-3133-1-ND	.43	2.54	7.31	490-3133-2-ND	15,000	7.02/M	GRM0335C1E5R1DD01D
			6.0pF	±.5pF	0.3	490-3135-1-ND	.43	2.54	7.31	490-3135-2-ND	15,000	7.02/M	GRM0335C1E6R0DD01D
			7.0pF	±.5pF	0.3	490-1250-1-ND	.53	3.12	9.00	490-1250-2-ND	15,000	8.64/M	GRM0335C1E7R0DD01D
			8.0pF	±.5pF	0.3	490-3139-1-ND	.43	2.54	7.31	490-3139-2-ND	15,000	7.02/M	GRM0335C1E8R0DD01D
			9.0pF	±.5pF	0.3	490-1251-1-ND	.53	3.12	9.00	490-1251-2-ND	15,000	8.64/M	GRM0335C1E9R0DD01D
			10pF	±5%	0.3	490-3142-1-ND	.53	3.12	9.00	490-3142-2-ND	15,000	8.64/M	GRM0335C1E100JD01D
			12pF	±5%	0.3	490-3144-1-ND	.43	2.54	7.31	490-3144-2-ND	15,000	7.02/M	GRM0335C1E120JD01D
			13pF	±5%	0.3	490-3145-1-ND	.43	2.54	7.31	490-3145-2-ND	15,000	7.02/M	GRM0335C1E130JD01D
			15pF	±5%	0.3	490-3146-1-ND	.43	2.54	7.31	490-3146-2-ND	15,000	7.02/M	GRM0335C1E150JD01D
			18pF	±5%	0.3	490-3148-1-ND	.53	3.12	9.00	490-3148-2-ND	15,000	8.64/M	GRM0335C1E180JD01D
			20pF	±5%	0.3	490-1252-1-ND	.53	3.12	9.00	490-1252-2-ND	15,000	8.64/M	GRM0335C1E200JD01D
			22pF	±5%	0.3	490-1253-1-ND	.53	3.12	9.00	490-1253-2-ND	15,000	8.64/M	GRM0335C1E220JD01D
			24pF	±5%	0.3	490-3149-1-ND	.43	2.54	7.31	490-3149-2-ND	15,000	7.02/M	GRM0335C1E240JD01D
			27pF	±5%	0.3	490-3150-1-ND	.43	2.54	7.31	490-3150-2-ND	15,000	7.02/M	GRM0335C1E270JD01D
			30pF	±5%	0.3	490-1254-1-ND	.53	3.12	9.00	490-1254-2-ND	15,000	8.64/M	GRM0335C1E300JD01D
			33pF	±5%	0.3	490-1255-1-ND	.53	3.12	9.00	490-1255-2-ND	15,000	8.64/M	GRM0335C1E330JD01D
			39pF	±5%	0.3	490-3152-1-ND	.43	2.54	7.31	490-3152-2-ND	15,000	7.02/M	GRM0335C1E390JD01D
			47pF	±5%	0.3	490-1256-1-ND	.53	3.12	9.00	490-1256-2-ND	15,000	8.64/M	GRM0335C1E470JD01D
			68pF	±5%	0.3	490-3157-1-ND	.43	2.54	7.31	490-3157-2-ND	15,000	7.02/M	GRM0335C1E680JD01D
			82pF	±5%	0.3	490-1257-1-ND	.53	3.12	9.00	490-1257-2-ND	15,000	8.64/M	GRM0335C1E820JD01D
			100pF	±5%	0.3	490-3160-1-ND	.53	3.12	9.00	490-3160-2-ND	15,000	8.64/M	GRM0335C1E101JD01D
	U2J	25	100pF	±5%	0.3	490-3882-1-ND ***NEW!***	.67	3.97	11.44	490-3882-2-ND ***NEW!***	15,000	11.00/M	GRM0337U1E101JD01D
		50	15pF	±5%	0.3	490-3883-1-ND ***NEW!***	.67	3.97	11.44	490-3883-2-ND ***NEW!***	15,000	11.00/M	GRM0337U1H150JD01D
	X7R	25	100pF	±10%	0.3	490-3172-1-ND	.43	2.54	7.31	490-3172-2-ND	15,000	7.02/M	GRM033R71E101KA01D
			150pF	±10%	0.3	490-3174-1-ND	.43	2.54	7.31	490-3174-2-ND	15,000	7.02/M	GRM033R71E151KA01D
			220pF	±10%	0.3	490-3176-1-ND	.43	2.54	7.31	490-3176-2-ND	15,000	7.02/M	GRM033R71E221KA01D
			330pF	±10%	0.3	490-3178-1-ND	.43	2.54	7.31	490-3178-2-ND	15,000	7.02/M	GRM033R71E331KA01D
			470pF	±10%	0.3	490-3180-1-ND	.43	2.54	7.31	490-3180-2-ND	15,000	7.02/M	GRM033R71E471KA01D
			680pF	±10%	0.3	490-3182-1-ND	.43	2.54	7.31	490-3182-2-ND	15,000	7.02/M	GRM033R71E681KA01D
			820pF	±10%	0.3	490-3183-1-ND	.43	2.54	7.31	490-3183-2-ND	15,000	7.02/M	GRM033R71E821KA01D
			1000pF	±10%	0.3	490-3184-1-ND	.43	2.54	7.31	490-3184-2-ND	15,000	7.02/M	GRM033R71E102KA01D
			1500pF	±10%	0.3	490-3185-1-ND	.45	2.67	7.69	490-3185-2-ND	15,000	7.38/M	GRM033R71E152KA01D
		16	100pF	±10%	0.3	490-1258-1-ND	.53	3.12	9.00	490-1258-2-ND	15,000	8.64/M	GRM033R71C101KD01D
			150pF	±10%	0.3	490-3186-1-ND	.43	2.54	7.31	490-3186-2-ND	15,000	7.02/M	GRM033R71C151KD01D
			220pF	±10%	0.3	490-3187-1-ND	.35	2.08	6.00	490-3187-2-ND	15,000	5.76/M	GRM033R71C221KD01D
			330pF	±10%	0.3	490-3189-1-ND	.43	2.54	7.31	490-3189-2-ND	15,000	7.02/M	GRM033R71C331KD01D
			470pF	±10%	0.3	490-1259-1-ND	.53	3.12	9.00	490-1259-2-ND	15,000	8.64/M	GRM033R71C471KD01D
			680pF	±10%	0.3	490-1260-1-ND	.53	3.12	9.00	490-1260-2-ND	15,000	8.64/M	GRM033R71C681KD01D
			1000pF	±10%	0.3	490-1261-1-ND	.53	3.12	9.00	490-1261-2-ND	15,000	8.64/M	GRM033R71C102KD01D
			3300pF	±10%	0.3	490-3191-1-ND	.45	2.67	7.69	490-3191-2-ND	15,000	7.38/M	GRM033R71C332KA88D
		10	4700pF	±10%	0.3	490-3192-1-ND	.45	2.67	7.69	490-3192-2-ND	15,000	7.38/M	GRM033R71A472KA01D
			6800pF	±10%	0.3	490-3193-1-ND	.45	2.67	7.69	490-3193-2-ND	15,000	7.38/M	GRM033R71A682KA01D
			10000pF	±10%	0.3	490-3194-1-ND	.45	2.67	7.69	490-3194-2-ND	15,000	7.38/M	GRM033R71A103KA01D
		6.3	10000pF	±10%	0.3	490-1262-1-ND	.86	5.07	14.63	490-1262-2-ND	15,000	14.04/M	GRM033R70J103KA01D
	X5R	10	1500pF	±10%	0.3	490-3161-1-ND	.45	2.67	7.69	490-3161-2-ND	15,000	7.38/M	GRM033R61A152KA01D
			2200pF	±10%	0.3	490-3162-1-ND	.45	2.67	7.69	490-3162-2-ND	15,000	7.38/M	GRM033R61A222KA01D
			3300pF	±10%	0.3	490-3163-1-ND	.45	2.67	7.69	490-3163-2-ND	15,000	7.38/M	GRM033R61A332KA01D
			4700pF	±10%	0.3	490-3164-1-ND	.45	2.67	7.69	490-3164-2-ND	15,000	7.38/M	GRM033R61A472KA01D
			6800pF	±10%	0.3	490-3165-1-ND	.45	2.67	7.69	490-3165-2-ND	15,000	7.38/M	GRM033R61A682KA01D
			10000pF	±10%	0.3	490-3166-1-ND	.45	2.67	7.69	490-3166-2-ND	15,000	7.38/M	GRM033R61A103KA01D
		6.3	15000pF	±10%	0.3	490-3168-1-ND	.52	3.06	8.81	490-3168-2-ND	15,000	8.46/M	GRM033R60J153KE01D
			22000pF	±10%	0.3	490-3169-1-ND	.55	3.25	9.38	490-3169-2-ND	15,000	9.00/M	GRM033R60J223KE01D
			33000pF	±10%	0.3	490-3170-1-ND	.59	3.51	10.13	490-3170-2-ND	15,000	9.72/M	GRM033R60J333KE01D
			68000pF	±10%	0.3	490-3171-1-ND	.65	3.84	11.06	490-3171-2-ND	15,000	10.62/M	GRM033R60J683KE19D
			.1µF	±10%	0.3	490-3167-1-ND	.70	4.16	12.00	490-3167-2-ND	15,000	11.52/M	GRM033R60J104KE19D
	Y5V	10	4700pF	+80%, -20%	0.3	490-3197-1-ND	.47	2.80	8.06	490-3197-2-ND	15,000	7.74/M	GRM033F51A472ZD01D
			10000pF	+80%, -20%	0.3	490-3195-1-ND	.47	2.80	8.06	490-3195-2-ND	15,000	7.74/M	GRM033F51A103ZD01D
0402	C0G (NP0)	50	.5pF	±.25pF	0.5	490-1263-1-ND	.34	2.02	5.81	490-1263-2-ND	10,000	5.58/M	GRM1555C1HR50CZ01D
			.75pF	±.25pF	0.5	490-1264-1-ND	.34	2.02	5.81	490-1264-2-ND	10,000	5.58/M	GRM1555C1HR75CZ01D
			1.2pF	±.25pF	0.5	490-1265-1-ND	.34	2.02	5.81	490-1265-2-ND	10,000	5.58/M	GRM1555C1H1R2CZ01D
			1.5pF	±.25pF	0.5	490-1266-1-ND	.34	2.02	5.81	490-1266-2-ND	10,000	5.58/M	GRM1555C1H1R5CZ01D
			1.8pF	±.25pF	0.5	490-3203-1-ND	.30	1.76	5.06	490-3203-2-ND	10,000	4.86/M	GRM1555C1H1R8CZ01D
			2.2pF	±.25pF	0.5	490-1267-1-ND	.34	2.02	5.81	490-1267-2-ND	10,000	5.58/M	GRM1555C1H2R2CZ01D
			2.4pF	±.25pF	0.5	490-1268-1-ND	.34	2.02	5.81	490-1268-2-ND	10,000	5.58/M	GRM1555C1H2R4CZ01D
			2.7pF	±.25pF	0.5	490-1269-1-ND	.34	2.02	5.81	490-1269-2-ND	10,000	5.58/M	GRM1555C1H2R7CZ01D
			3.0pF	±.25pF	0.5	490-3205-1-ND	.30	1.76	5.06	490-3205-2-ND	10,000	4.86/M	GRM1555C1H3R0CZ01D
			3.3pF	±.25pF	0.5	490-1270-1-ND	.34	2.02	5.81	490-1270-2-ND	10,000	5.58/M	GRM1555C1H3R3CZ01D
			3.6pF	±.25pF	0.5	490-1271-1-ND	.34	2.02	5.81	490-1271-2-ND	10,000	5.58/M	GRM1555C1H3R6CZ01D
			3.9pF	±.25pF	0.5	490-1272-1-ND	.34	2.02	5.81	490-1272-2-ND	10,000	5.58/M	GRM1555C1H3R9CZ01D
			4.0pF	±.25pF	0.5	490-3206-1-ND	.30	1.76	5.06	490-3206-2-ND	10,000	4.86/M	GRM1555C1H4R0CZ01D
			4.7pF	±.25pF	0.5	490-1273-1-ND	.34	2.02	5.81	490-1273-2-ND	10,000	5.58/M	GRM1555C1H4R7CZ01D
			5.0pF	±.25pF	0.5	490-1274-1-ND	.34	2.02	5.81	490-1274-2-ND	10,000	5.58/M	GRM1555C1H5R0CZ01D
			5.1pF	±.5pF	0.5	490-3208-1-ND	.30	1.76	5.06	490-3208-2-ND	10,000	4.86/M	GRM1555C1H5R1DZ01D

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Murata Part No.
							10	100	500		Size	Pricing	
0402	COG (NP0)	50	5.6pF	±.5pF	0.5	490-1275-1-ND	.34	2.02	5.81	490-1275-2-ND	10,000	5.58/M	GRM1555C1H5R6DZ01D
			6.0pF	±.5pF	0.5	490-3209-1-ND	.30	1.76	5.06	490-3209-2-ND	10,000	4.86/M	GRM1555C1H6R0DZ01D
			6.8pF	±.5pF	0.5	490-1276-1-ND	.34	2.02	5.81	490-1276-2-ND	10,000	5.58/M	GRM1555C1H6R8DZ01D
			7.0pF	±.5pF	0.5	490-1277-1-ND	.34	2.02	5.81	490-1277-2-ND	10,000	5.58/M	GRM1555C1H7R0DZ01D
			7.5pF	±.5pF	0.5	490-3211-1-ND	.30	1.76	5.06	490-3211-2-ND	10,000	4.86/M	GRM1555C1H7R5DZ01D
			8.0pF	±.5pF	0.5	490-3212-1-ND	.30	1.76	5.06	490-3212-2-ND	10,000	4.86/M	GRM1555C1H8R0DZ01D
			9.0pF	±.5pF	0.5	490-3214-1-ND	.30	1.76	5.06	490-3214-2-ND	10,000	4.86/M	GRM1555C1H9R0DZ01D
			10pF	±5%	0.5	490-1278-1-ND	.35	2.08	6.00	490-1278-2-ND	10,000	5.76/M	GRM1555C1H100JZ01D
			12pF	±5%	0.5	490-1279-1-ND	.34	2.02	5.81	490-1279-2-ND	10,000	5.58/M	GRM1555C1H120JZ01D
			15pF	±5%	0.5	490-1280-1-ND	.34	2.02	5.81	490-1280-2-ND	10,000	5.58/M	GRM1555C1H150JZ01D
			18pF	±5%	0.5	490-1281-1-ND	.34	2.02	5.81	490-1281-2-ND	10,000	5.58/M	GRM1555C1H180JZ01D
			20pF	±5%	0.5	490-1282-1-ND	.45	2.67	7.69	490-1282-2-ND	10,000	7.38/M	GRM1555C1H200JZ01D
			22pF	±5%	0.5	490-1283-1-ND	.34	2.02	5.81	490-1283-2-ND	10,000	5.58/M	GRM1555C1H220JZ01D
			24pF	±5%	0.5	490-3219-1-ND	.39	2.28	6.56	490-3219-2-ND	10,000	6.30/M	GRM1555C1H240JZ01D
			27pF	±5%	0.5	490-1284-1-ND	.34	2.02	5.81	490-1284-2-ND	10,000	5.58/M	GRM1555C1H270JZ01D
			30pF	±5%	0.5	490-1285-1-ND	.45	2.67	7.69	490-1285-2-ND	10,000	7.38/M	GRM1555C1H300JZ01D
			33pF	±5%	0.5	490-3220-1-ND	.30	1.76	5.06	490-3220-2-ND	10,000	4.86/M	GRM1555C1H330JZ01D
			39pF	±5%	0.5	490-1286-1-ND	.34	2.02	5.81	490-1286-2-ND	10,000	5.58/M	GRM1555C1H390JZ01D
			43pF	±5%	0.5	490-3222-1-ND	.39	2.28	6.56	490-3222-2-ND	10,000	6.30/M	GRM1555C1H430JZ01D
			47pF	±5%	0.5	490-1287-1-ND	.34	2.02	5.81	490-1287-2-ND	10,000	5.58/M	GRM1555C1H470JZ01D
			51pF	±5%	0.5	490-3223-1-ND	.39	2.28	6.56	490-3223-2-ND	10,000	6.30/M	GRM1555C1H510JZ01D
			56pF	±5%	0.5	490-1288-1-ND	.30	1.76	5.06	490-1288-2-ND	10,000	4.86/M	GRM1555C1H560JD01D
			68pF	±5%	0.5	490-1289-1-ND	.30	1.76	5.06	490-1289-2-ND	10,000	4.86/M	GRM1555C1H680JD01D
			75pF	±5%	0.5	490-3225-1-ND	.39	2.28	6.56	490-3225-2-ND	10,000	6.30/M	GRM1555C1H750JZ01D
			82pF	±5%	0.5	490-1290-1-ND	.30	1.76	5.06	490-1290-2-ND	10,000	4.86/M	GRM1555C1H820JZ01D
			100pF	±5%	0.5	490-3458-1-ND	.30	1.76	5.06	490-3458-2-ND	10,000	4.86/M	GRM1555C1H101JZ01D
			110pF	±5%	0.5	490-3227-1-ND	.51	2.99	8.63	490-3227-2-ND	10,000	8.28/M	GRM1555C1H111JA01D
			120pF	±5%	0.5	490-1292-1-ND	.44	2.60	7.50	490-1292-2-ND	10,000	7.20/M	GRM1555C1H121JA01D
			150pF	±5%	0.5	490-3229-1-ND	.39	2.28	6.56	490-3229-2-ND	10,000	6.30/M	GRM1555C1H151JA01D
			160pF	±5%	0.5	490-3230-1-ND	.51	2.99	8.63	490-3230-2-ND	10,000	8.28/M	GRM1555C1H161JA01D
			180pF	±5%	0.5	490-3231-1-ND	.39	2.28	6.56	490-3231-2-ND	10,000	6.30/M	GRM1555C1H181JA01D
			200pF	±5%	0.5	490-3232-1-ND	.51	2.99	8.63	490-3232-2-ND	10,000	8.28/M	GRM1555C1H201JA01D
			220pF	±5%	0.5	490-1293-1-ND	.45	2.67	7.69	490-1293-2-ND	10,000	7.38/M	GRM1555C1H221JA01D
			270pF	±5%	0.5	490-1294-1-ND	.59	3.51	10.13	490-1294-2-ND	10,000	9.72/M	GRM1555C1H271JA01D
			330pF	±5%	0.5	490-1295-1-ND	.59	3.51	10.13	490-1295-2-ND	10,000	9.72/M	GRM1555C1H331JA01D
			390pF	±5%	0.5	490-1296-1-ND	.64	3.77	10.88	490-1296-2-ND	10,000	10.44/M	GRM1555C1H391JA01D
			470pF	±5%	0.5	490-1297-1-ND	.64	3.77	10.88	490-1297-2-ND	10,000	10.44/M	GRM1555C1H471JA01D
			510pF	±5%	0.5	490-3237-1-ND	.59	3.51	10.13	490-3237-2-ND	10,000	9.72/M	GRM1555C1H511JA01D
			560pF	±5%	0.5	490-3238-1-ND	.55	3.25	9.38	490-3238-2-ND	10,000	9.00/M	GRM1555C1H561JA01D
			620pF	±5%	0.5	490-3239-1-ND	.59	3.51	10.13	490-3239-2-ND	10,000	9.72/M	GRM1555C1H621JA01D
			680pF	±5%	0.5	490-3240-1-ND	.55	3.25	9.38	490-3240-2-ND	10,000	9.00/M	GRM1555C1H681JA01D
			820pF	±5%	0.5	490-3242-1-ND	.70	4.16	12.00	490-3242-2-ND	10,000	11.52/M	GRM1555C1H821JA01D
			1000pF	±5%	0.5	490-3244-1-ND	.78	4.62	13.31	490-3244-2-ND	10,000	12.78/M	GRM1555C1H102JA01D
	X7R	100	4700pF	±10%	0.5	490-3885-1-ND ***NEW!***	.34	2.02	5.81	490-3885-2-ND ***NEW!***	10,000	6.00/M	GRM155R72A472KA01D
		50	220pF	±10%	0.5	490-1298-1-ND	.39	2.28	6.56	490-1298-2-ND	10,000	6.30/M	GRM155R71H221KA01D
			270pF	±10%	0.5	490-1299-1-ND	.41	2.41	6.94	490-1299-2-ND	10,000	6.66/M	GRM155R71H271KA01D
			470pF	±10%	0.5	490-1300-1-ND	.39	2.28	6.56	490-1300-2-ND	10,000	6.30/M	GRM155R71H471KA01D
			560pF	±10%	0.5	490-1301-1-ND	.41	2.41	6.94	490-1301-2-ND	10,000	6.66/M	GRM155R71H561KA01D
			680pF	±10%	0.5	490-1302-1-ND	.41	2.41	6.94	490-1302-2-ND	10,000	6.66/M	GRM155R71H681KA01D
			820pF	±10%	0.5	490-3250-1-ND	.37	2.21	6.38	490-3250-2-ND	10,000	6.12/M	GRM155R71H821KA01D
			1000pF	±10%	0.5	490-1303-1-ND	.32	1.89	5.44	490-1303-2-ND	10,000	5.22/M	GRM155R71H102KA01D
			1200pF	±10%	0.5	490-1304-1-ND	.45	2.67	7.69	490-1304-2-ND	10,000	7.38/M	GRM155R71H122KA01D
			1500pF	±10%	0.5	490-3245-1-ND	.40	2.34	6.75	490-3245-2-ND	10,000	6.48/M	GRM155R71H152KA01D
			2200pF	±10%	0.5	490-1305-1-ND	.32	1.89	5.44	490-1305-2-ND	10,000	5.22/M	GRM155R71H222KA01D
			2700pF	±10%	0.5	490-1306-1-ND	.45	2.67	7.69	490-1306-2-ND	10,000	7.38/M	GRM155R71H272KA01D
			3900pF	±10%	0.5	490-1307-1-ND	.45	2.67	7.69	490-1307-2-ND	10,000	7.38/M	GRM155R71H392KA01D
			4700pF	±10%	0.5	490-1308-1-ND	.32	1.89	5.44	490-1308-2-ND	10,000	5.22/M	GRM155R71H472KA01D
			.02µF	±10%	0.5	490-3884-1-ND ***NEW!***	.36	2.15	6.19	490-3884-2-ND ***NEW!***	10,000	6.00/M	GRM155R71H223KA12D
		25	4700pF	±10%	0.5	490-1309-1-ND	.32	1.89	5.44	490-1309-2-ND	10,000	5.22/M	GRM155R71E472KA01D
			6800pF	±10%	0.5	490-1310-1-ND	.45	2.67	7.69	490-1310-2-ND	10,000	7.38/M	GRM155R71E682KA01D
			8200pF	±10%	0.5	490-1311-1-ND	.53	3.12	9.00	490-1311-2-ND	10,000	8.64/M	GRM155R71E822KA01D
			10000pF	±10%	0.5	490-1312-1-ND	.32	1.89	5.44	490-1312-2-ND	10,000	5.22/M	GRM155R71E103KA01D
			15000pF	±10%	0.5	490-3251-1-ND	.51	2.99	8.63	490-3251-2-ND	10,000	8.28/M	GRM155R71E153KA61D
			22000pF	±10%	0.5	490-3252-1-ND	.42	2.47	7.13	490-3252-2-ND	10,000	6.84/M	GRM155R71E223KA61D
			33000pF	±10%	0.5	490-3253-1-ND	.81	4.81	13.88	490-3253-2-ND	10,000	13.32/M	GRM155R71E333KA88D
			47000pF	±10%	0.5	490-3254-1-ND	.52	3.06	8.81	490-3254-2-ND	10,000	8.46/M	GRM155R71E473KA88D
		16	10000pF	±10%	0.5	490-1313-1-ND	.32	1.89	5.44	490-1313-2-ND	10,000	5.22/M	GRM155R71C103KA01D
			15000pF	±10%	0.5	490-1314-1-ND	.53	3.12	9.00	490-1314-2-ND	10,000	8.64/M	GRM155R71C153KA01D
			22000pF	±10%	0.5	490-3256-1-ND	.35	2.08	6.00	490-3256-2-ND	10,000	5.76/M	GRM155R71C223KA01D
			.1µF	±10%	0.5	490-3261-1-ND	.37	2.21	6.38	490-3261-2-ND	10,000	6.12/M	GRM155R71C104KA88D
		10	33000pF	±10%	0.5	490-1315-1-ND	.92	5.46	15.75	490-1315-2-ND	10,000	15.12/M	GRM155R71A333KA01D
			47000pF	±10%	0.5	490-1316-1-ND	.58	3.45	9.94	490-1316-2-ND	10,000	9.54/M	GRM155R71A473KA01D
	X5R	10	68000pF	±10%	0.5	490-1317-1-ND	.92	5.46	15.75	490-1317-2-ND	10,000	15.12/M	GRM155R61A683KA01D
			.1µF	±10%	0.5	490-1318-1-ND	.51	2.99	8.63	490-1318-2-ND	10,000	8.28/M	GRM155R61A104KA01D
			.22µF	±10%	0.5	490-3910-1-ND ***NEW!***	1.24	7.35	21.19	490-3910-2-ND ***NEW!***	10,000	20.00/M	GRM155R61A224KE19D
			.33µF	±10%	0.5	490-3263-1-ND	1.67	9.88	28.50	490-3263-2-ND	10,000	27.36/M	GRM155R61A334KE15D
			.47µF	±10%	0.5	490-3264-1-ND	1.64	9.69	27.94	490-3264-2-ND	10,000	26.82/M	GRM155R61A474KE15D
			1µF	±10%	0.5	490-3890-1-ND ***NEW!***	.87	5.14	14.81	490-3890-2-ND ***NEW!***	10,000	14.00/M	GRM155R61A105KE15D
		6.3	.33µF	±10%	0.5	490-3265-1-ND	1.67	9.88	28.50	490-3265-2-ND	10,000	27.36/M	GRM155R60J334KE01D
			.47µF	±10%	0.5	490-3266-1-ND	1.64	9.69	27.94	490-3266-2-ND	10,000	26.82/M	GRM155R60J474KE19D
			1.0µF	±10%	0.5	490-1320-1-ND	1.97	11.64	33.56	490-1320-2-ND	10,000	32.22/M	GRM155R60J105KE19D
			1.0µF	±20%	0.5	490-1319-1-ND	1.97	11.64	33.56	490-1319-2-ND	10,000	32.22/M	GRM155R60J105ME19D
	Y5V	50	2200pF	+80, -20%	0.5	490-1321-1-ND	.44	2.60	7.50	490-1321-2-ND	10,000	7.20/M	GRM155F51H222ZA01D
			4700pF	+80, -20%	0.5	490-1322-1-ND	.44	2.60	7.50	490-1322-2-ND	10,000	7.20/M	GRM155F51H472ZA01D
			10000pF	+80, -20%	0.5	490-1323-1-ND	.34	2.02	5.81	490-1323-2-ND	10,000	5.58/M	GRM155F51H103ZA01D
		25	10000pF	+80, -20%	0.5	490-1324-1-ND	.34	2.02	5.81	490-1324-2-ND	10,000	5.58/M	GRM155F51E103ZA01D
			22000pF	+80, -20%	0.5	490-1325-1-ND	.36	2.15	6.19	490-1325-2-ND	10,000	5.94/M	GRM155F51E223ZA01D
			47000pF	+80, -20%	0.5	490-3270-1-ND	.32	1.89	5.44	490-3270-2-ND	10,000	5.22/M	GRM155F51E473ZA01D
			.1µF	+80, -20%	0.5	490-3271-1-ND	.31	1.82	5.25	490-3271-2-ND	10,000	5.04/M	GRM155F51E104ZA01D
		16	22000pF	+80, -20%	0.5	490-3272-1-ND	.32	1.89	5.44	490-3272-2-ND	10,000	5.22/M	GRM155F51C223ZA01D
			47000pF	+80, -20%	0.5	490-1326-1-ND	.36	2.15	6.19	490-1326-2-ND	10,000	5.94/M	GRM155F51C473ZA01D
			.1µF	+80, -20%	0.5	490-1327-1-ND	.35	2.08	6.00	490-1327-2-ND	10,000	5.76/M	GRM155F51C104ZA01D
			.22µF	+80, -20%	0.5	490-3273-1-ND	.70	4.16	12.00	490-3273-2-ND	10,000	11.52/M	GRM155F51C224ZA01D
			.47µF	+80, -20%	0.5	490-3274-1-ND	.69	4.10	11.81	490-3274-2-ND	10,000	11.34/M	GRM155F51C474ZA01D
		10	.33µF	+80, -20%	0.5	490-3275-1-ND	.70	4.16	12.00	490-3275-2-ND	10,000	11.52/M	GRM155F51A334ZE01D
			.47µF	+80, -20%	0.5	490-3276-1-ND	.74	4.36	12.56	490-3276-2-ND	10,000	12.06/M	GRM155F51A474ZE01D
		6.3	.1µF	+80, -20%	0.5	490-3277-1-ND	.31	1.82	5.25	490-3277-2-ND	10,000	5.04/M	GRM155F50J104ZA01D
			.68µF	+80, -20%	0.5	490-3278-1-ND	.78	4.62	13.31	490-3278-2-ND	10,000	12.78/M	GRM155F50J684ZE01D
0603	C0G (NP0)	100	10pF	±.25pF	0.8	490-3279-1-ND	.55	3.25	9.38	490-3279-2-ND	4,000	9.00/M	GRM1885C2A100RA01D
			11pF	±5%	0.8	490-1328-1-ND	.59	3.51	10.13	490-1328-2-ND	4,000	9.72/M	GRM1885C2A110JA01D
			12pF	±5%	0.8	490-1329-1-ND	.55	3.25	9.38	490-1329-2-ND	4,000	9.00/M	GRM1885C2A120JA01D
			13pF	±5%	0.8	490-1330-1-ND	.62	3.64	10.50	490-1330-2-ND	4,000	10.08/M	GRM1885C2A130JA01D
			15pF	±5%	0.8	490-1331-1-ND	.55	3.25	9.38	490-1331-2-ND	4,000	9.00/M	GRM1885C2A150JA01D
			16pF	±5%	0.8	490-1332-1-ND	.62	3.64	10.50	490-1332-2-ND	4,000	10.08/M	GRM1885C2A160JA01D
			18pF	±5%	0.8	490-1333-1-ND	.55	3.25	9.38	490-1333-2-ND	4,000	9.00/M	GRM1885C2A180JA01D

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Murata Part No.
							10	100	500		Size	Pricing	
0603	C0G (NP0)	100	20pF	±5%	0.8	490-1334-1-ND	.59	3.51	10.13	490-1334-2-ND	4,000	9.72/M	GRM1885C2A200JA01D
			22pF	±5%	0.8	490-1335-1-ND	.55	3.25	9.38	490-1335-2-ND	4,000	9.00/M	GRM1885C2A220JA01D
			24pF	±5%	0.8	490-1336-1-ND	.62	3.64	10.50	490-1336-2-ND	4,000	10.08/M	GRM1885C2A240JA01D
			27pF	±5%	0.8	490-1337-1-ND	.55	3.25	9.38	490-1337-2-ND	4,000	9.00/M	GRM1885C2A270JA01D
			30pF	±5%	0.8	490-1338-1-ND	.62	3.64	10.50	490-1338-2-ND	4,000	10.08/M	GRM1885C2A300JA01D
			33pF	±5%	0.8	490-1339-1-ND	.55	3.25	9.38	490-1339-2-ND	4,000	9.00/M	GRM1885C2A330JA01D
			36pF	±5%	0.8	490-1340-1-ND	.62	3.64	10.50	490-1340-2-ND	4,000	10.08/M	GRM1885C2A360JA01D
			39pF	±5%	0.8	490-1341-1-ND	.55	3.25	9.38	490-1341-2-ND	4,000	9.00/M	GRM1885C2A390JA01D
			43pF	±5%	0.8	490-1342-1-ND	.59	3.51	10.13	490-1342-2-ND	4,000	9.72/M	GRM1885C2A430JA01D
			47pF	±5%	0.8	490-1343-1-ND	.55	3.25	9.38	490-1343-2-ND	4,000	9.00/M	GRM1885C2A470JA01D
			51pF	±5%	0.8	490-1344-1-ND	.59	3.51	10.13	490-1344-2-ND	4,000	9.72/M	GRM1885C2A510JA01D
			56pF	±5%	0.8	490-1345-1-ND	.55	3.25	9.38	490-1345-2-ND	4,000	9.00/M	GRM1885C2A560JA01D
			62pF	±5%	0.8	490-1346-1-ND	.59	3.51	10.13	490-1346-2-ND	4,000	9.72/M	GRM1885C2A620JA01D
			68pF	±5%	0.8	490-1347-1-ND	.55	3.25	9.38	490-1347-2-ND	4,000	9.00/M	GRM1885C2A680JA01D
			75pF	±5%	0.8	490-1348-1-ND	.59	3.51	10.13	490-1348-2-ND	4,000	9.72/M	GRM1885C2A750JA01D
			82pF	±5%	0.8	490-1349-1-ND	.55	3.25	9.38	490-1349-2-ND	4,000	9.00/M	GRM1885C2A820JA01D
			91pF	±5%	0.8	490-1350-1-ND	.59	3.51	10.13	490-1350-2-ND	4,000	9.72/M	GRM1885C2A910JA01D
			100pF	±5%	0.8	490-1351-1-ND	.55	3.25	9.38	490-1351-2-ND	4,000	9.00/M	GRM1885C2A101JA01D
			110pF	±5%	0.8	490-1352-1-ND	.81	4.81	13.88	490-1352-2-ND	4,000	13.32/M	GRM1885C2A111JA01D
			120pF	±5%	0.8	490-1353-1-ND	.79	4.68	13.50	490-1353-2-ND	4,000	12.96/M	GRM1885C2A121JA01D
			130pF	±5%	0.8	490-1354-1-ND	.81	4.81	13.88	490-1354-2-ND	4,000	13.32/M	GRM1885C2A131JA01D
			150pF	±5%	0.8	490-1355-1-ND	.63	3.71	10.69	490-1355-2-ND	4,000	10.26/M	GRM1885C2A151JA01D
			160pF	±5%	0.8	490-1356-1-ND	.81	4.81	13.88	490-1356-2-ND	4,000	13.32/M	GRM1885C2A161JA01D
			180pF	±5%	0.8	490-1357-1-ND	.79	4.68	13.50	490-1357-2-ND	4,000	12.96/M	GRM1885C2A181JA01D
			200pF	±5%	0.8	490-1358-1-ND	.85	5.01	14.44	490-1358-2-ND	4,000	13.86/M	GRM1885C2A201JA01D
			220pF	±5%	0.8	490-1359-1-ND	.70	4.16	12.00	490-1359-2-ND	4,000	11.52/M	GRM1885C2A221JA01D
			240pF	±5%	0.8	490-1360-1-ND	.92	5.46	15.75	490-1360-2-ND	4,000	15.12/M	GRM1885C2A241JA01D
			270pF	±5%	0.8	490-1361-1-ND	.88	5.20	15.00	490-1361-2-ND	4,000	14.40/M	GRM1885C2A271JA01D
			300pF	±5%	0.8	490-1362-1-ND	.95	5.59	16.13	490-1362-2-ND	4,000	15.48/M	GRM1885C2A301JA01D
			330pF	±5%	0.8	490-1363-1-ND	.75	4.42	12.75	490-1363-2-ND	4,000	12.24/M	GRM1885C2A331JA01D
			360pF	±5%	0.8	490-1364-1-ND	.95	5.59	16.13	490-1364-2-ND	4,000	15.48/M	GRM1885C2A361JA01D
			390pF	±5%	0.8	490-1365-1-ND	.92	5.46	15.75	490-1365-2-ND	4,000	15.12/M	GRM1885C2A391JA01D
			430pF	±5%	0.8	490-1366-1-ND	.95	5.59	16.13	490-1366-2-ND	4,000	15.48/M	GRM1885C2A431JA01D
			470pF	±5%	0.8	490-1367-1-ND	.80	4.75	13.69	490-1367-2-ND	4,000	13.14/M	GRM1885C2A471JA01D
			510pF	±5%	0.8	490-1368-1-ND	1.07	6.31	18.19	490-1368-2-ND	4,000	17.46/M	GRM1885C2A511JA01D
			560pF	±5%	0.8	490-1369-1-ND	1.02	6.05	17.44	490-1369-2-ND	4,000	16.74/M	GRM1885C2A561JA01D
			680pF	±5%	0.8	490-3280-1-ND	1.21	7.15	20.63	490-3280-2-ND	4,000	19.80/M	GRM1885C2A681JA01D
			1000pF	±5%	0.8	490-3281-1-ND	1.27	7.48	21.56	490-3281-2-ND	4,000	20.70/M	GRM1885C2A102JA01D
		50	.5pF	±.25pF	0.8	490-1370-1-ND	.69	4.10	11.81	490-1370-2-ND	4,000	11.34/M	GRM1885C1HR50CZ01D
			.75pF	±.25pF	0.8	490-1371-1-ND	.69	4.10	11.81	490-1371-2-ND	4,000	11.34/M	GRM1885C1HR75CZ01D
			1.0pF	±.25pF	0.8	490-1372-1-ND	.69	4.10	11.81	490-1372-2-ND	4,000	11.34/M	GRM1885C1H1R0CZ01D
			1.1pF	±.25pF	0.8	490-1373-1-ND	.69	4.10	11.81	490-1373-2-ND	4,000	11.34/M	GRM1885C1H1R1CZ01D
			1.2pF	±.25pF	0.8	490-1374-1-ND	.69	4.10	11.81	490-1374-2-ND	4,000	11.34/M	GRM1885C1H1R2CZ01D
			1.3pF	±.25pF	0.8	490-1375-1-ND	.69	4.10	11.81	490-1375-2-ND	4,000	11.34/M	GRM1885C1H1R3CZ01D
			1.5pF	±.25pF	0.8	490-1376-1-ND	.69	4.10	11.81	490-1376-2-ND	4,000	11.34/M	GRM1885C1H1R5CZ01D
			1.6pF	±.25pF	0.8	490-1377-1-ND	.69	4.10	11.81	490-1377-2-ND	4,000	11.34/M	GRM1885C1H1R6CZ01D
			1.8pF	±.25pF	0.8	490-1378-1-ND	.69	4.10	11.81	490-1378-2-ND	4,000	11.34/M	GRM1885C1H1R8CZ01D
			2.0pF	±.25pF	0.8	490-1379-1-ND	.69	4.10	11.81	490-1379-2-ND	4,000	11.34/M	GRM1885C1H2R0CZ01D
			2.2pF	±.25pF	0.8	490-1380-1-ND	.69	4.10	11.81	490-1380-2-ND	4,000	11.34/M	GRM1885C1H2R2CZ01D
			2.4pF	±.25pF	0.8	490-1381-1-ND	.69	4.10	11.81	490-1381-2-ND	4,000	11.34/M	GRM1885C1H2R4CZ01D
			2.7pF	±.25pF	0.8	490-1382-1-ND	.69	4.10	11.81	490-1382-2-ND	4,000	11.34/M	GRM1885C1H2R7CZ01D
			3.0pF	±.25pF	0.8	490-1383-1-ND	.69	4.10	11.81	490-1383-2-ND	4,000	11.34/M	GRM1885C1H3R0CZ01D
			3.3pF	±.25pF	0.8	490-1384-1-ND	.69	4.10	11.81	490-1384-2-ND	4,000	11.34/M	GRM1885C1H3R3CZ01D
			3.6pF	±.25pF	0.8	490-1385-1-ND	.69	4.10	11.81	490-1385-2-ND	4,000	11.34/M	GRM1885C1H3R6CZ01D
			3.9pF	±.25pF	0.8	490-1386-1-ND	.69	4.10	11.81	490-1386-2-ND	4,000	11.34/M	GRM1885C1H3R9CZ01D
			4.0pF	±.25pF	0.8	490-1387-1-ND	.69	4.10	11.81	490-1387-2-ND	4,000	11.34/M	GRM1885C1H4R0CZ01D
			4.3pF	±.25pF	0.8	490-1388-1-ND	.69	4.10	11.81	490-1388-2-ND	4,000	11.34/M	GRM1885C1H4R3CZ01D
			4.7pF	±.25pF	0.8	490-1389-1-ND	.69	4.10	11.81	490-1389-2-ND	4,000	11.34/M	GRM1885C1H4R7CZ01D
			5.0pF	±.25pF	0.8	490-1390-1-ND	.69	4.10	11.81	490-1390-2-ND	4,000	11.34/M	GRM1885C1H5R0CZ01D
			5.1pF	±.5pF	0.8	490-1391-1-ND	.69	4.10	11.81	490-1391-2-ND	4,000	11.34/M	GRM1885C1H5R1DZ01D
			5.6pF	±.5pF	0.8	490-1392-1-ND	.69	4.10	11.81	490-1392-2-ND	4,000	11.34/M	GRM1885C1H5R6DZ01D
			6.0pF	±.5pF	0.8	490-1393-1-ND	.69	4.10	11.81	490-1393-2-ND	4,000	11.34/M	GRM1885C1H6R0DZ01D
			6.2pF	±.5pF	0.8	490-1394-1-ND	.69	4.10	11.81	490-1394-2-ND	4,000	11.34/M	GRM1885C1H6R2DZ01D
			6.8pF	±.25pF	0.8	490-1395-1-ND	.80	4.75	13.69	490-1395-2-ND	4,000	13.14/M	GRM1885C1H6R8CZ01D
			6.8pF	±.5pF	0.8	490-1396-1-ND	.69	4.10	11.81	490-1396-2-ND	4,000	11.34/M	GRM1885C1H6R8DZ01D
			7.0pF	±.5pF	0.8	490-1397-1-ND	.69	4.10	11.81	490-1397-2-ND	4,000	11.34/M	GRM1885C1H7R0DZ01D
			7.5pF	±.5pF	0.8	490-1398-1-ND	.69	4.10	11.81	490-1398-2-ND	4,000	11.34/M	GRM1885C1H7R5DZ01D
			8.0pF	±.5pF	0.8	490-1399-1-ND	.69	4.10	11.81	490-1399-2-ND	4,000	11.34/M	GRM1885C1H8R0DZ01D
			8.2pF	±.5pF	0.8	490-1400-1-ND	.69	4.10	11.81	490-1400-2-ND	4,000	11.34/M	GRM1885C1H8R2DZ01D
			9.0pF	±.5pF	0.8	490-1401-1-ND	.69	4.10	11.81	490-1401-2-ND	4,000	11.34/M	GRM1885C1H9R0DZ01D
			9.1pF	±.5pF	0.8	490-1402-1-ND	.69	4.10	11.81	490-1402-2-ND	4,000	11.34/M	GRM1885C1H9R1DZ01D
			10pF	±5%	0.8	490-1403-1-ND	.69	4.10	11.81	490-1403-2-ND	4,000	11.34/M	GRM1885C1H100JA01D
			11pF	±5%	0.8	490-1404-1-ND	.72	4.23	12.19	490-1404-2-ND	4,000	11.70/M	GRM1885C1H110JA01D
			12pF	±5%	0.8	490-1405-1-ND	.69	4.10	11.81	490-1405-2-ND	4,000	11.34/M	GRM1885C1H120JA01D
			13pF	±5%	0.8	490-1406-1-ND	.72	4.23	12.19	490-1406-2-ND	4,000	11.70/M	GRM1885C1H130JA01D
			15pF	±5%	0.8	490-1407-1-ND	.69	4.10	11.81	490-1407-2-ND	4,000	11.34/M	GRM1885C1H150JA01D
			16pF	±5%	0.8	490-1408-1-ND	.72	4.23	12.19	490-1408-2-ND	4,000	11.70/M	GRM1885C1H160JA01D
			18pF	±5%	0.8	490-1409-1-ND	.69	4.10	11.81	490-1409-2-ND	4,000	11.34/M	GRM1885C1H180JA01D
			20pF	±5%	0.8	490-1410-1-ND	.72	4.23	12.19	490-1410-2-ND	4,000	11.70/M	GRM1885C1H200JA01D
			22pF	±5%	0.8	490-1411-1-ND	.69	4.10	11.81	490-1411-2-ND	4,000	11.34/M	GRM1885C1H220JA01D
			24pF	±5%	0.8	490-1412-1-ND	.72	4.23	12.19	490-1412-2-ND	4,000	11.70/M	GRM1885C1H240JA01D
			27pF	±5%	0.8	490-1413-1-ND	.69	4.10	11.81	490-1413-2-ND	4,000	11.34/M	GRM1885C1H270JA01D
			30pF	±5%	0.8	490-1414-1-ND	.72	4.23	12.19	490-1414-2-ND	4,000	11.70/M	GRM1885C1H300JA01D
			33pF	±5%	0.8	490-1415-1-ND	.69	4.10	11.81	490-1415-2-ND	4,000	11.34/M	GRM1885C1H330JA01D
			36pF	±5%	0.8	490-1416-1-ND	.72	4.23	12.19	490-1416-2-ND	4,000	11.70/M	GRM1885C1H360JA01D
			39pF	±5%	0.8	490-1417-1-ND	.69	4.10	11.81	490-1417-2-ND	4,000	11.34/M	GRM1885C1H390JA01D
			43pF	±5%	0.8	490-1418-1-ND	.72	4.23	12.19	490-1418-2-ND	4,000	11.70/M	GRM1885C1H430JA01D
			47pF	±5%	0.8	490-1419-1-ND	.69	4.10	11.81	490-1419-2-ND	4,000	11.34/M	GRM1885C1H470JA01D
			51pF	±5%	0.8	490-1420-1-ND	.72	4.23	12.19	490-1420-2-ND	4,000	11.70/M	GRM1885C1H510JA01D
			56pF	±5%	0.8	490-1421-1-ND	.69	4.10	11.81	490-1421-2-ND	4,000	11.34/M	GRM1885C1H560JA01D
			62pF	±5%	0.8	490-1422-1-ND	.72	4.23	12.19	490-1422-2-ND	4,000	11.70/M	GRM1885C1H620JA01D
			68pF	±5%	0.8	490-1423-1-ND	.69	4.10	11.81	490-1423-2-ND	4,000	11.34/M	GRM1885C1H680JA01D
			75pF	±5%	0.8	490-1424-1-ND	.72	4.23	12.19	490-1424-2-ND	4,000	11.70/M	GRM1885C1H750JA01D
			82pF	±5%	0.8	490-1425-1-ND	.69	4.10	11.81	490-1425-2-ND	4,000	11.34/M	GRM1885C1H820JA01D
			91pF	±5%	0.8	490-1426-1-ND	.72	4.23	12.19	490-1426-2-ND	4,000	11.70/M	GRM1885C1H910JA01D
			100pF	±5%	0.8	490-1427-1-ND	.69	4.10	11.81	490-1427-2-ND	4,000	11.34/M	GRM1885C1H101JA01D
			110pF	±5%	0.8	490-1428-1-ND	1.03	6.11	17.63	490-1428-2-ND	4,000	16.92/M	GRM1885C1H111JA01D
			120pF	±5%	0.8	490-1429-1-ND	.99	5.85	16.88	490-1429-2-ND	4,000	16.20/M	GRM1885C1H121JA01D
			130pF	±5%	0.8	490-1430-1-ND	1.05	6.18	17.81	490-1430-2-ND	4,000	17.10/M	GRM1885C1H131JA01D
			150pF	±5%	0.8	490-1431-1-ND	1.23	7.28	21.00	490-1431-2-ND	4,000	20.16/M	GRM1885C1H151JA01D
			160pF	±5%	0.8	490-1432-1-ND	1.03	6.11	17.63	490-1432-2-ND	4,000	16.92/M	GRM1885C1H161JA01D
			180pF	±5%	0.8	490-1433-1-ND	.99	5.85	16.88	490-1433-2-ND	4,000	16.20/M	GRM1885C1H181JA01D
			200pF	±5%	0.8	490-1434-1-ND	1.05	6.18	17.81	490-1434-2-ND	4,000	17.10/M	GRM1885C1H201JA01D
			220pF	±5%	0.8	490-1435-1-ND	1.01	5.98	17.25	490-1435-2-ND	4,000	16.56/M	GRM1885C1H221JA01D
			240pF	±5%	0.8	490-1436-1-ND	1.09	6.44	18.56	490-1436-2-ND	4,000	17.82/M	GRM1885C1H241JA01D
			270pF	±5%	0.8	490-1437-1-ND	1.22	7.22	20.81	490-1437-2-ND	4,000	19.98/M	GRM1885C1H271JA01D
			300pF	±5%	0.8	490-1438-1-ND	1.13	6.70	19.31	490-1438-2-ND	4,000	18.54/M	GRM1885C1H301JA01D

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Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Murata Part No.
							10	100	500		Size	Pricing	
0603	C0G (NP0)	50	330pF	±5%	0.8	490-1439-1-ND	1.11	6.57	18.94	490-1439-2-ND	4,000	18.18/M	GRM1885C1H331JA01D
			360pF	±5%	0.8	490-1440-1-ND	1.13	6.70	19.31	490-1440-2-ND	4,000	18.54/M	GRM1885C1H361JA01D
			390pF	±5%	0.8	490-1441-1-ND	1.10	6.50	18.75	490-1441-2-ND	4,000	18.00/M	GRM1885C1H391JA01D
			430pF	±5%	0.8	490-1442-1-ND	1.18	6.96	20.06	490-1442-2-ND	4,000	19.26/M	GRM1885C1H431JA01D
			470pF	±5%	0.8	490-1443-1-ND	1.03	6.11	17.63	490-1443-2-ND	4,000	16.92/M	GRM1885C1H471JA01D
			510pF	±5%	0.8	490-1444-1-ND	1.34	7.93	22.88	490-1444-2-ND	4,000	21.96/M	GRM1885C1H511JA01D
			560pF	±5%	0.8	490-1445-1-ND	1.25	7.41	21.38	490-1445-2-ND	4,000	20.52/M	GRM1885C1H561JA01D
			620pF	±5%	0.8	490-1446-1-ND	.94	5.53	15.94	490-1446-2-ND	4,000	15.30/M	GRM1885C1H621JA01D
			680pF	±5%	0.8	490-1447-1-ND	1.22	7.22	20.81	490-1447-2-ND	4,000	19.98/M	GRM1885C1H681JA01D
			750pF	±5%	0.8	490-1448-1-ND	1.17	6.89	19.88	490-1448-2-ND	4,000	19.08/M	GRM1885C1H751JA01D
			820pF	±5%	0.8	490-1449-1-ND	1.12	6.63	19.13	490-1449-2-ND	4,000	18.36/M	GRM1885C1H821JA01D
			910pF	±5%	0.8	490-1450-1-ND	1.17	6.89	19.88	490-1450-2-ND	4,000	19.08/M	GRM1885C1H911JA01D
			1000pF	±5%	0.8	490-1451-1-ND	1.29	7.61	21.94	490-1451-2-ND	4,000	21.06/M	GRM1885C1H102JA01D
			1100pF	±5%	0.8	490-1452-1-ND	1.18	6.96	20.06	490-1452-2-ND	4,000	19.26/M	GRM1885C1H112JA01D
			1200pF	±5%	0.8	490-1453-1-ND	1.18	6.96	20.06	490-1453-2-ND	4,000	19.26/M	GRM1885C1H122JA01D
			1300pF	±5%	0.8	490-1454-1-ND	1.21	7.15	20.63	490-1454-2-ND	4,000	19.80/M	GRM1885C1H132JA01D
			1500pF	±5%	0.8	490-1455-1-ND	1.17	6.89	19.88	490-1455-2-ND	4,000	19.08/M	GRM1885C1H152JA01D
			1600pF	±5%	0.8	490-1456-1-ND	1.30	7.67	22.13	490-1456-2-ND	4,000	21.24/M	GRM1885C1H162JA01D
			1800pF	±5%	0.8	490-1457-1-ND	1.27	7.48	21.56	490-1457-2-ND	4,000	20.70/M	GRM1885C1H182JA01D
			2000pF	±5%	0.8	490-1458-1-ND	1.34	7.93	22.88	490-1458-2-ND	4,000	21.96/M	GRM1885C1H202JA01D
			2200pF	±5%	0.8	490-1459-1-ND	1.25	7.41	21.38	490-1459-2-ND	4,000	20.52/M	GRM1885C1H222JA01D
			2400pF	±5%	0.8	490-3282-1-ND	1.55	9.17	26.44	490-3282-2-ND	4,000	25.38/M	GRM1885C1H242JA01D
			2700pF	±5%	0.8	490-3283-1-ND	1.56	9.23	26.63	490-3283-2-ND	4,000	25.56/M	GRM1885C1H272JA01D
	X7R	250	220pF	±10%	0.8	490-3521-1-ND	1.34	7.93	22.88	490-3521-2-ND	4,000	22.00/M	GRM188R72E221KW07D
			330pF	±10%	0.8	490-3522-1-ND	1.34	7.93	22.88	490-3522-2-ND	4,000	22.00/M	GRM188R72E331KW07D
			470pF	±10%	0.8	490-3523-1-ND	1.34	7.93	22.88	490-3523-2-ND	4,000	22.00/M	GRM188R72E471KW07D
			680pF	±10%	0.8	490-3524-1-ND	1.34	7.93	22.88	490-3524-2-ND	4,000	22.00/M	GRM188R72E681KW07D
			1000pF	±10%	0.8	490-3526-1-ND	1.34	7.93	22.88	490-3526-2-ND	4,000	22.00/M	GRM188R72E102KW07D
			1500pF	±10%	0.8	490-3528-1-ND	1.83	10.79	31.13	490-3528-2-ND	4,000	30.00/M	GRM188R72E152KW07D
			2200pF	±10%	0.8	490-3530-1-ND	2.01	11.90	34.31	490-3530-2-ND	4,000	33.00/M	GRM188R72E222KW07D
		100	220pF	±10%	0.8	490-1460-1-ND	.66	3.90	11.25	490-1460-2-ND	4,000	10.80/M	GRM188R72A221KA01D
			220pF	±20%	0.8	490-1461-1-ND	.66	3.90	11.25	490-1461-2-ND	4,000	10.80/M	GRM188R72A221MA01D
			270pF	±10%	0.8	490-1462-1-ND	.67	3.97	11.44	490-1462-2-ND	4,000	10.98/M	GRM188R72A271KA01D
			330pF	±10%	0.8	490-1464-1-ND	.67	3.97	11.44	490-1464-2-ND	4,000	10.98/M	GRM188R72A331KA01D
			330pF	±20%	0.8	490-1463-1-ND	.67	3.97	11.44	490-1463-2-ND	4,000	10.98/M	GRM188R72A331MA01D
			390pF	±10%	0.8	490-1465-1-ND	.67	3.97	11.44	490-1465-2-ND	4,000	10.98/M	GRM188R72A391KA01D
			470pF	±10%	0.8	490-1467-1-ND	.67	3.97	11.44	490-1467-2-ND	4,000	10.98/M	GRM188R72A471KA01D
			470pF	±20%	0.8	490-1466-1-ND	.66	3.90	11.25	490-1466-2-ND	4,000	10.80/M	GRM188R72A471MA01D
			560pF	±10%	0.8	490-1468-1-ND	.68	4.03	11.63	490-1468-2-ND	4,000	11.16/M	GRM188R72A561KA01D
			680pF	±10%	0.8	490-1469-1-ND	.67	3.97	11.44	490-1469-2-ND	4,000	10.98/M	GRM188R72A681KA01D
			680pF	±20%	0.8	490-1470-1-ND	.67	3.97	11.44	490-1470-2-ND	4,000	10.98/M	GRM188R72A681MA01D
			820pF	±10%	0.8	490-1471-1-ND	.67	3.97	11.44	490-1471-2-ND	4,000	10.98/M	GRM188R72A821KA01D
			1000pF	±10%	0.8	490-1472-1-ND	.55	3.25	9.38	490-1472-2-ND	4,000	9.00/M	GRM188R72A102KA01D
			1000pF	±20%	0.8	490-1473-1-ND	.54	3.19	9.19	490-1473-2-ND	4,000	8.82/M	GRM188R72A102MA01D
			1200pF	±10%	0.8	490-1474-1-ND	.62	3.64	10.50	490-1474-2-ND	4,000	10.08/M	GRM188R72A122KA01D
			1500pF	±10%	0.8	490-1475-1-ND	.59	3.51	10.13	490-1475-2-ND	4,000	9.72/M	GRM188R72A152KA01D
			1500pF	±20%	0.8	490-1476-1-ND	.58	3.45	9.94	490-1476-2-ND	4,000	9.54/M	GRM188R72A152MA01D
			1800pF	±10%	0.8	490-1477-1-ND	.63	3.71	10.69	490-1477-2-ND	4,000	10.26/M	GRM188R72A182KA01D
			2200pF	±10%	0.8	490-1478-1-ND	.55	3.25	9.38	490-1478-2-ND	4,000	9.00/M	GRM188R72A222KA01D
			2200pF	±20%	0.8	490-1479-1-ND	.54	3.19	9.19	490-1479-2-ND	4,000	8.82/M	GRM188R72A222MA01D
			2700pF	±10%	0.8	490-1480-1-ND	.67	3.97	11.44	490-1480-2-ND	4,000	10.98/M	GRM188R72A272KA01D
			3300pF	±10%	0.8	490-1481-1-ND	.59	3.51	10.13	490-1481-2-ND	4,000	9.72/M	GRM188R72A332KA01D
			3300pF	±20%	0.8	490-1482-1-ND	.58	3.45	9.94	490-1482-2-ND	4,000	9.54/M	GRM188R72A332MA01D
			22000pF	±10%	0.8	490-3284-1-ND	.78	4.62	13.31	490-3284-2-ND	4,000	12.78/M	GRM188R72A223KAC4D
			.1µF	±10%	0.8	490-3285-1-ND	2.13	12.61	36.38	490-3285-2-ND	4,000	34.92/M	GRM188R72A104KA35D
		50	220pF	±10%	0.8	490-1483-1-ND	1.01	5.98	17.25	490-1483-2-ND	4,000	16.56/M	GRM188R71H221KA01D
			220pF	±20%	0.8	490-1484-1-ND	1.01	5.98	17.25	490-1484-2-ND	4,000	16.56/M	GRM188R71H221MA01D
			270pF	±10%	0.8	490-1485-1-ND	.59	3.51	10.13	490-1485-2-ND	4,000	9.72/M	GRM188R71H271KA01D
			330pF	±10%	0.8	490-1486-1-ND	.59	3.51	10.13	490-1486-2-ND	4,000	9.72/M	GRM188R71H331KA01D
			330pF	±20%	0.8	490-1487-1-ND	.58	3.45	9.94	490-1487-2-ND	4,000	9.54/M	GRM188R71H331MA01D
			390pF	±10%	0.8	490-1555-1-ND	.68	4.03	11.63	490-1555-2-ND	4,000	11.16/M	GRM188R71H391KA01D
			470pF	±10%	0.8	490-1489-1-ND	.66	3.90	11.25	490-1489-2-ND	4,000	10.80/M	GRM188R71H471KA01D
			470pF	±20%	0.8	490-1488-1-ND	.66	3.90	11.25	490-1488-2-ND	4,000	10.80/M	GRM188R71H471MA01D
			560pF	±10%	0.8	490-1490-1-ND	.67	3.97	11.44	490-1490-2-ND	4,000	10.98/M	GRM188R71H561KA01D
			680pF	±10%	0.8	490-1491-1-ND	.67	3.97	11.44	490-1491-2-ND	4,000	10.98/M	GRM188R71H681KA01D
			680pF	±20%	0.8	490-1492-1-ND	.57	3.38	9.75	490-1492-2-ND	4,000	9.36/M	GRM188R71H681MA01D
			820pF	±10%	0.8	490-1493-1-ND	.68	4.03	11.63	490-1493-2-ND	4,000	11.16/M	GRM188R71H821KA01D
			1000pF	±10%	0.8	490-1494-1-ND	.57	3.38	9.75	490-1494-2-ND	4,000	9.36/M	GRM188R71H102KA01D
			1000pF	±20%	0.8	490-1495-1-ND	.57	3.38	9.75	490-1495-2-ND	4,000	9.36/M	GRM188R71H102MA01D
			1200pF	±10%	0.8	490-1496-1-ND	.61	3.58	10.31	490-1496-2-ND	4,000	9.90/M	GRM188R71H122KA01D
			1500pF	±10%	0.8	490-1498-1-ND	.65	3.84	11.06	490-1498-2-ND	4,000	10.62/M	GRM188R71H152KA01D
			1500pF	±20%	0.8	490-1497-1-ND	.65	3.84	11.06	490-1497-2-ND	4,000	10.62/M	GRM188R71H152MA01D
			1800pF	±10%	0.8	490-1499-1-ND	.66	3.90	11.25	490-1499-2-ND	4,000	10.80/M	GRM188R71H182KA01D
			2200pF	±10%	0.8	490-1500-1-ND	.41	2.41	6.94	490-1500-2-ND	4,000	6.66/M	GRM188R71H222KA01D
			2200pF	±20%	0.8	490-1501-1-ND	.41	2.41	6.94	490-1501-2-ND	4,000	6.66/M	GRM188R71H222MA01D
			2700pF	±10%	0.8	490-1502-1-ND	.68	4.03	11.63	490-1502-2-ND	4,000	11.16/M	GRM188R71H272KA01D
			3300pF	±10%	0.8	490-1503-1-ND	.65	3.84	11.06	490-1503-2-ND	4,000	10.62/M	GRM188R71H332KA01D
			3300pF	±20%	0.8	490-1560-1-ND	.65	3.84	11.06	490-1560-2-ND	4,000	10.62/M	GRM188R71H332MA01D
			3900pF	±10%	0.8	490-1504-1-ND	.68	4.03	11.63	490-1504-2-ND	4,000	11.16/M	GRM188R71H392KA01D
			4700pF	±10%	0.8	490-1506-1-ND	.63	3.71	10.69	490-1506-2-ND	4,000	10.26/M	GRM188R71H472KA01D
			4700pF	±20%	0.8	490-1505-1-ND	.63	3.71	10.69	490-1505-2-ND	4,000	10.26/M	GRM188R71H472MA01D
			8200pF	±10%	0.8	490-1510-1-ND	.75	4.42	12.75	490-1510-2-ND	4,000	12.24/M	GRM188R71H822KA01D
			6800pF	±20%	0.8	490-1509-1-ND	.72	4.23	12.19	490-1509-2-ND	4,000	11.70/M	GRM188R71H682MA01D
			5600pF	±10%	0.8	490-1507-1-ND	.74	4.36	12.56	490-1507-2-ND	4,000	12.06/M	GRM188R71H562KA01D
			6800pF	±10%	0.8	490-1508-1-ND	.72	4.23	12.19	490-1508-2-ND	4,000	11.70/M	GRM188R71H682KA01D
			10000pF	±10%	0.8	490-1512-1-ND	.54	3.19	9.19	490-1512-2-ND	4,000	8.82/M	GRM188R71H103KA01D
			10000pF	±20%	0.8	490-1511-1-ND	.54	3.19	9.19	490-1511-2-ND	4,000	8.82/M	GRM188R71H103MA01D
			12000pF	±10%	0.8	490-1513-1-ND	.77	4.55	13.13	490-1513-2-ND	4,000	12.60/M	GRM188R71H123KA01D
			15000pF	±10%	0.8	490-1514-1-ND	.68	4.03	11.63	490-1514-2-ND	4,000	11.16/M	GRM188R71H153KA01D
			15000pF	±20%	0.8	490-1515-1-ND	.57	3.38	9.75	490-1515-2-ND	4,000	9.36/M	GRM188R71H153MA01D
			18000pF	±10%	0.8	490-1516-1-ND	.77	4.55	13.13	490-1516-2-ND	4,000	12.60/M	GRM188R71H183KA01D
			22000pF	±10%	0.8	490-1517-1-ND	.74	4.36	12.56	490-1517-2-ND	4,000	12.06/M	GRM188R71H223KA01D
			22000pF	±20%	0.8	490-1518-1-ND	.59	3.51	10.13	490-1518-2-ND	4,000	9.72/M	GRM188R71H223MA01D
			33000pF	±10%	0.8	490-3286-1-ND	.78	4.62	13.31	490-3286-2-ND	4,000	12.78/M	GRM188R71H333KA61D
			47000pF	±10%	0.8	490-3287-1-ND	.77	4.55	13.13	490-3287-2-ND	4,000	12.60/M	GRM188R71H473KA61D
			68000pF	±10%	0.8	490-3288-1-ND	.86	5.07	14.63	490-3288-2-ND	4,000	14.04/M	GRM188R71H683KA93D
			.1µF	±10%	0.8	490-1519-1-ND	.70	4.16	12.00	490-1519-2-ND	4,000	11.52/M	GRM188R71H104KA93D
		25	10000pF	±10%	0.8	490-1520-1-ND	.54	3.19	9.19	490-1520-2-ND	4,000	8.82/M	GRM188R71E103KA01D
			33000pF	±10%	0.8	490-1521-1-ND	1.01	5.98	17.25	490-1521-2-ND	4,000	16.56/M	GRM188R71E333KA01D
			47000pF	±10%	0.8	490-1522-1-ND	1.09	6.44	18.56	490-1522-2-ND	4,000	17.82/M	GRM188R71E473KA01D
			68000pF	±10%	0.8	490-1523-1-ND	.77	4.55	13.13	490-1523-2-ND	4,000	12.60/M	GRM188R71E683KA01D
			.1µF	±10%	0.8	490-1524-1-ND	1.18	6.96	20.06	490-1524-2-ND	4,000	19.26/M	GRM188R71E104KA01D
			.22µF	±10%	0.8	490-3290-1-ND	1.35	8.00	23.06	490-3290-2-ND	4,000	22.14/M	GRM188R71E224KA88D
			.47µF	±10%	0.8	490-3291-1-ND	1.63	9.62	27.75	490-3291-2-ND	4,000	26.64/M	GRM188R71E474KA12D
		16	10000pF	±10%	0.8	490-1525-1-ND	.54	3.19	9.19	490-1525-2-ND	4,000	8.82/M	GRM188R71C103KA01D
			12000pF	±10%	0.8	490-1526-1-ND	.70	4.16	12.00	490-1526-2-ND	4,000	11.52/M	GRM188R71C123KA01D

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Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Murata Part No.
							10	100	500		Size	Pricing	
0603	X7R	16	22000pF	±10%	0.8	490-1527-1-ND	.72	4.23	12.19	490-1527-2-ND	4,000	11.70/M	GRM188R71C223KA01D
			33000pF	±10%	0.8	490-1528-1-ND	.90	5.33	15.38	490-1528-2-ND	4,000	14.76/M	GRM188R71C333KA01D
			47000pF	±10%	0.8	490-1529-1-ND	1.05	6.18	17.81	490-1529-2-ND	4,000	17.10/M	GRM188R71C473KA01D
			56000pF	±10%	0.8	490-1530-1-ND	1.28	7.54	21.75	490-1530-2-ND	4,000	20.88/M	GRM188R71C563KA01D
			68000pF	±10%	0.8	490-1531-1-ND	1.20	7.09	20.44	490-1531-2-ND	4,000	19.62/M	GRM188R71C683KA01D
			.1µF	±10%	0.8	490-1532-1-ND	.90	5.33	15.38	490-1532-2-ND	4,000	14.76/M	GRM188R71C104KA01D
			.15µF	±10%	0.8	490-3292-1-ND	1.09	6.44	18.56	490-3292-2-ND	4,000	17.82/M	GRM188R71C154KA01D
			.22µF	±10%	0.8	490-3293-1-ND	1.35	8.00	23.06	490-3293-2-ND	4,000	22.14/M	GRM188R71C224KA01D
			.33µF	±10%	0.8	490-3294-1-ND	1.55	9.17	26.44	490-3294-2-ND	4,000	25.38/M	GRM188R71C334KA01D
			.47µF	±10%	0.8	490-3295-1-ND	1.56	9.23	26.63	490-3295-2-ND	4,000	25.56/M	GRM188R71C474KA88D
			1.0µF	±10%	0.8	490-3900-1-ND ***NEW!***	.75	4.42	12.75	490-3900-2-ND ***NEW!***	4,000	12.00/M	GRM188R71C105KA12D
		10	.15µF	±10%	0.8	490-1533-1-ND	3.17	18.72	54.00	490-1533-2-ND	4,000	51.84/M	GRM188R71A154KA01D
			.15µF	±20%	0.8	490-1534-1-ND	1.24	7.35	21.19	490-1534-2-ND	4,000	20.34/M	GRM188R71A154MA01D
			.22µF	±10%	0.8	490-1535-1-ND	2.62	15.47	44.63	490-1535-2-ND	4,000	42.84/M	GRM188R71A224KA01D
			1.0µF	±10%	0.8	490-3899-1-ND ***NEW!***	.69	4.10	11.81	490-3899-2-ND ***NEW!***	4,000	11.00/M	GRM188R71A105KA12D
		6.3	1.0µF	±10%	0.8	490-3898-1-ND ***NEW!***	.69	4.10	11.81	490-3898-2-ND ***NEW!***	4,000	11.00/M	GRM188R70J105KA01D
	X5R	25	1.0µF	±10%	0.8	490-3897-1-ND ***NEW!***	1.85	10.92	31.50	490-3897-2-ND ***NEW!***	4,000	30.00/M	GRM188R61E105KA12D
		16	1.0µF	±10%	0.5	490-3894-1-ND ***NEW!***	2.74	16.19	46.69	490-3894-2-ND ***NEW!***	4,000	45.00/M	GRM185R61C105KE44D
			1.0µF	±10%	0.8	490-1536-1-ND	1.53	9.04	26.06	490-1536-2-ND	4,000	25.02/M	GRM188R61C105KA93D
			2.2µF	±10%	0.8	490-3296-1-ND ***NEW!***	3.73	22.04	63.56	490-3296-2-ND ***NEW!***	4,000	61.00/M	GRM188R61C225KE15D
		10	.33µF	±10%	0.8	490-1538-1-ND	1.69	10.01	28.88	490-1538-2-ND	4,000	27.72/M	GRM188R61A334KA61D
			.47µF	±10%	0.8	490-1539-1-ND	1.89	11.18	32.25	490-1539-2-ND	4,000	30.96/M	GRM188R61A474KA61D
			.47µF	±20%	0.8	490-1540-1-ND	1.47	8.71	25.13	490-1540-2-ND	4,000	24.12/M	GRM188R61A474MA61D
			.68µF	±10%	0.8	490-1541-1-ND	1.98	11.70	33.75	490-1541-2-ND	4,000	32.40/M	GRM188R61A684KA61D
			.68µF	±20%	0.8	490-1542-1-ND	1.97	11.64	33.56	—	—	—	GRM188R61A684MA61D
			1.0µF	±10%	0.5	490-3893-1-ND ***NEW!***	2.62	15.47	44.63	490-3893-2-ND ***NEW!***	4,000	43.00/M	GRM185R61A105KE36D
			1.0µF	±10%	0.8	490-1543-1-ND	1.80	10.66	30.75	490-1543-2-ND	4,000	29.52/M	GRM188R61A105KA61D
			1.0µF	±20%	0.8	490-1544-1-ND	1.31	7.74	22.31	490-1544-2-ND	4,000	21.42/M	GRM188R61A105MA61D
			2.2µF	±10%	0.8	490-1545-1-ND	3.36	19.83	57.19	490-1545-2-ND	4,000	54.90/M	GRM188R61A225KE34D
			2.2µF	±20%	0.8	490-1546-1-ND	2.81	16.58	47.81	490-1546-2-ND	4,000	45.90/M	GRM188R61A225ME34D
		6.3	.33µF	±10%	0.8	490-1547-1-ND	1.88	11.12	32.06	490-1547-2-ND	4,000	30.78/M	GRM188R60J334KA01D
			.47µF	±10%	0.8	490-1548-1-ND	1.47	8.71	25.13	490-1548-2-ND	4,000	24.12/M	GRM188R60J474KA01D
			1.0µF	±10%	0.8	490-1550-1-ND	1.31	7.74	22.31	490-1550-2-ND	4,000	21.42/M	GRM188R60J105KA01D
			1.0µF	±20%	0.8	490-1549-1-ND	1.31	7.74	22.31	490-1549-2-ND	4,000	21.42/M	GRM188R60J105MA01D
			2.2µF	±10%	0.5	490-3267-1-ND	3.04	17.94	51.75	490-3267-2-ND	4,000	49.68/M	GRM185R60J225KE26D
			2.2µF	±10%	0.8	490-1552-1-ND	4.08	24.12	69.56	490-1552-2-ND	4,000	66.78/M	GRM188R60J225KE01D
			2.2µF	±20%	0.8	490-1551-1-ND	4.08	24.12	69.56	490-1551-2-ND	4,000	66.78/M	GRM188R60J225ME01D
			4.7µF	±10%	0.8	490-3297-1-ND	6.16	36.40	105.00	490-3297-2-ND	4,000	100.80/M	GRM188R60J475KE19D
			4.7µF	±20%	0.5	490-3892-1-ND ***NEW!***	3.55	21.00	60.56	490-3892-2-ND ***NEW!***	4,000	58.00/M	GRM185R60J475ME15D
			10µF	±20%	0.8	490-3896-1-ND ***NEW!***	9.43	55.71	160.69	490-3896-2-ND ***NEW!***	4,000	154.00/M	GRM188R60J106ME47D
		4	4.7µF	±20%	0.5	490-3891-1-ND ***NEW!***	3.55	21.00	60.56	490-3891-2-ND ***NEW!***	4,000	58.00/M	GRM185R60G475ME15D
			10µF	±20%	0.8	490-3298-1-ND ***NEW!***	12.39	73.19	211.13	490-3298-2-ND ***NEW!***	4,000	203.00/M	GRM188R60G106ME47D
	Y5V	100	2200pF	+80, -20%	0.8	490-1553-1-ND	1.42	8.39	24.19	490-1553-2-ND	4,000	23.22/M	GRM188F52A222ZD01D
			3300pF	+80, -20%	0.8	490-1554-1-ND	1.42	8.39	24.19	490-1554-2-ND	4,000	23.22/M	GRM188F52A332ZD01D
		50	1000pF	+80, -20%	0.8	490-1556-1-ND	.57	3.38	9.75	490-1556-2-ND	4,000	9.36/M	GRM188F51H102ZA01D
			1500pF	+80, -20%	0.8	490-1557-1-ND	.63	3.71	10.69	490-1557-2-ND	4,000	10.26/M	GRM188F51H152ZA01D
			2200pF	+80, -20%	0.8	490-1558-1-ND	.57	3.38	9.75	490-1558-2-ND	4,000	9.36/M	GRM188F51H222ZA01D
			3300pF	+80, -20%	0.8	490-1559-1-ND	.63	3.71	10.69	490-1559-2-ND	4,000	10.26/M	GRM188F51H332ZA01D
			6800pF	+80, -20%	0.8	490-1562-1-ND	.73	4.29	12.38	490-1562-2-ND	4,000	11.88/M	GRM188F51H682ZA01D
			4700pF	+80, -20%	0.8	490-1561-1-ND	.57	3.38	9.75	490-1561-2-ND	4,000	9.36/M	GRM188F51H472ZA01D
			10000pF	+80, -20%	0.8	490-1563-1-ND	.57	3.38	9.75	490-1563-2-ND	4,000	9.36/M	GRM188F51H103ZA01D
			15000pF	+80, -20%	0.8	490-1564-1-ND	.67	3.97	11.44	490-1564-2-ND	4,000	10.98/M	GRM188F51H153ZA01D
			22000pF	+80, -20%	0.8	490-1565-1-ND	.47	2.80	8.06	490-1565-2-ND	4,000	7.74/M	GRM188F51H223ZA01D
			33000pF	+80, -20%	0.8	490-1566-1-ND	.69	4.10	11.81	490-1566-2-ND	4,000	11.34/M	GRM188F51H333ZA01D
			47000pF	+80, -20%	0.8	490-1567-1-ND	.72	4.23	12.19	490-1567-2-ND	4,000	11.70/M	GRM188F51H473ZA01D
			.1µF	+80, -20%	0.8	490-1568-1-ND	.48	2.86	8.25	490-1568-2-ND	4,000	7.92/M	GRM188F51H104ZA01D
			.22µF	+80, -20%	0.8	490-1569-1-ND	.92	5.46	15.75	490-1569-2-ND	4,000	15.12/M	GRM188F51H224ZA01D
		25	1000pF	+80, -20%	0.8	490-1570-1-ND	.57	3.38	9.75	490-1570-2-ND	4,000	9.36/M	GRM188F51E102ZA01D
			4700pF	+80, -20%	0.8	490-1571-1-ND	.57	3.38	9.75	490-1571-2-ND	4,000	9.36/M	GRM188F51E472ZA01D
			10000pF	+80, -20%	0.8	490-1572-1-ND	.57	3.38	9.75	490-1572-2-ND	4,000	9.36/M	GRM188F51E103ZA01D
			33000pF	+80, -20%	0.8	490-1573-1-ND	.57	3.38	9.75	490-1573-2-ND	4,000	9.36/M	GRM188F51E333ZA01D
			47000pF	+80, -20%	0.8	490-1574-1-ND	.53	3.12	9.00	490-1574-2-ND	4,000	8.64/M	GRM188F51E473ZA01D
			.1µF	+80, -20%	0.8	490-1575-1-ND	.54	3.19	9.19	490-1575-2-ND	4,000	8.82/M	GRM188F51E104ZA01D
			.22µF	+80, -20%	0.8	490-3299-1-ND	.83	4.88	14.06	490-3299-2-ND	4,000	13.50/M	GRM188F51E224ZA01D
			.47µF	+80, -20%	0.8	490-3300-1-ND	.83	4.88	14.06	490-3300-2-ND	4,000	13.50/M	GRM188F51E474ZA01D
			1.0µF	+80, -20%	0.8	490-3895-1-ND ***NEW!***	.77	4.55	13.13	490-3895-2-ND ***NEW!***	4,000	13.00/M	GRM188F51E105ZA12D
		16	47000pF	+80, -20%	0.8	490-1576-1-ND	.53	3.12	9.00	490-1576-2-ND	4,000	8.64/M	GRM188F51C473ZA01D
			.1µF	+80, -20%	0.8	490-1577-1-ND	.54	3.19	9.19	490-1577-2-ND	4,000	8.82/M	GRM188F51C104ZA01D
			.15µF	+80, -20%	0.8	490-1578-1-ND	1.08	6.37	18.38	490-1578-2-ND	4,000	17.64/M	GRM188F51C154ZA01D
			.22µF	+80, -20%	0.8	490-3301-1-ND	.78	4.62	13.31	490-3301-2-ND	4,000	12.78/M	GRM188F51C224ZA01D
			.33µF	+80, -20%	0.8	490-1579-1-ND	1.71	10.08	29.06	490-1579-2-ND	4,000	27.90/M	GRM188F51C334ZA01D
			.47µF	+80, -20%	0.8	490-1580-1-ND	.89	5.27	15.19	490-1580-2-ND	4,000	14.58/M	GRM188F51C474ZA01D
			.68µF	+80, -20%	0.8	490-1581-1-ND	.97	5.72	16.50	490-1581-2-ND	4,000	15.84/M	GRM188F51C684ZA01D
			1.0µF	+80, -20%	0.8	490-1582-1-ND	.75	4.42	12.75	490-1582-2-ND	4,000	12.24/M	GRM188F51C105ZA01D
		10	.47µF	+80, -20%	0.8	490-1583-1-ND	.97	5.72	16.50	490-1583-2-ND	4,000	15.84/M	GRM188F51A474ZA01D
			.68µF	+80, -20%	0.8	490-1584-1-ND	2.18	12.87	37.13	490-1584-2-ND	4,000	35.64/M	GRM188F51A684ZA01D
			1.0µF	+80, -20%	0.8	490-1585-1-ND	.75	4.42	12.75	490-1585-2-ND	4,000	12.24/M	GRM188F51A105ZA01D
			2.2µF	+80, -20%	0.8	490-1586-1-ND	1.68	9.95	28.69	490-1586-2-ND	4,000	27.54/M	GRM188F51A225ZE01D
			4.7µF	+80, -20%	0.8	490-3302-1-ND	1.85	10.92	31.50	490-3302-2-ND	4,000	30.24/M	GRM188F51A475ZE20D
		6.3	2.2µF	+80, -20%	0.8	490-1587-1-ND	1.68	9.95	28.69	490-1587-2-ND	4,000	27.54/M	GRM188F50J225ZE01D
			4.7µF	+80, -20%	0.8	490-3303-1-ND	1.85	10.92	31.50	490-3303-2-ND	4,000	30.24/M	GRM188F50J475ZE20D
	Z5U	50	10000pF	±20%	0.8	490-1588-1-ND	.65	3.84	11.06	490-1588-2-ND	4,000	10.62/M	GRM188E41H103MA01D
0805	C0G NP0	100	10pF	±5%	0.85	490-1590-1-ND	1.90	11.25	32.44	490-1590-2-ND	4,000	31.14/M	GRM2195C2A100JZ01D
			22pF	±5%	0.85	490-1591-1-ND	2.08	12.29	35.44	490-1591-2-ND	4,000	34.02/M	GRM2195C2A220JZ01D
			33pF	±5%	0.85	490-1592-1-ND	1.95	11.51	33.19	490-1592-2-ND	4,000	31.86/M	GRM2195C2A330JZ01D
			47pF	±5%	0.85	490-1593-1-ND	1.84	10.86	31.31	490-1593-2-ND	4,000	30.06/M	GRM2195C2A470JZ01D
			56pF	±5%	0.85	490-1594-1-ND	1.84	10.86	31.31	490-1594-2-ND	4,000	30.06/M	GRM2195C2A560JZ01D
			68pF	±5%	0.85	490-1595-1-ND	1.82	10.73	30.94	490-1595-2-ND	4,000	29.70/M	GRM2195C2A680JZ01D
			75pF	±5%	0.85	490-1596-1-ND	1.74	10.27	29.63	490-1596-2-ND	4,000	28.44/M	GRM2195C2A750JZ01D
			82pF	±5%	0.85	490-1597-1-ND	2.04	12.03	34.69	490-1597-2-ND	4,000	33.30/M	GRM2195C2A820JZ01D
			91pF	±5%	0.85	490-1598-1-ND	1.82	10.73	30.94	490-1598-2-ND	4,000	29.70/M	GRM2195C2A910JZ01D
			100pF	±5%	0.6	490-1599-1-ND	.99	5.85	16.88	490-1599-2-ND	4,000	16.20/M	GRM2165C2A101JA01D
			110pF	±5%	0.6	490-1600-1-ND	1.10	6.50	18.75	490-1600-2-ND	4,000	18.00/M	GRM2165C2A111JA01D
			120pF	±5%	0.6	490-1601-1-ND	1.07	6.31	18.19	490-1601-2-ND	4,000	17.46/M	GRM2165C2A121JA01D
			130pF	±5%	0.6	490-1602-1-ND	1.10	6.50	18.75	490-1602-2-ND	4,000	18.00/M	GRM2165C2A131JA01D
			150pF	±5%	0.6	490-1603-1-ND	1.07	6.31	18.19	490-1603-2-ND	4,000	17.46/M	GRM2165C2A151JA01D
			160pF	±5%	0.6	490-1604-1-ND	1.10	6.50	18.75	490-1604-2-ND	4,000	18.00/M	GRM2165C2A161JA01D
			180pF	±5%	0.6	490-1605-1-ND	1.06	6.24	18.00	490-1605-2-ND	4,000	17.28/M	GRM2165C2A181JA01D
			200pF	±5%	0.6	490-1606-1-ND	1.10	6.50	18.75	490-1606-2-ND	4,000	18.00/M	GRM2165C2A201JA01D
			220pF	±5%	0.6	490-1607-1-ND	1.18	6.96	20.06	490-1607-2-ND	4,000	19.26/M	GRM2165C2A221JA01D
			240pF	±5%	0.6	490-1608-1-ND	1.31	7.74	22.31	490-1608-2-ND	4,000	21.42/M	GRM2165C2A241JA01D
			270pF	±5%	0.6	490-1609-1-ND	1.24	7.35	21.19	490-1609-2-ND	4,000	20.34/M	GRM2165C2A271JA01D
			330pF	±5%	0.6	490-1610-1-ND	1.42	8.39	24.19	490-1610-2-ND	4,000	23.22/M	GRM2165C2A331JA01D
			390pF	±5%	0.6	490-3306-1-ND	1.43	8.45	24.38	490-3306-2-ND	4,000	23.40/M	GRM2165C2A391JA01D
			470pF	±5%	0.6	490-1611-1-ND	1.53	9.04	26.06	490-1611-2-ND	4,000	25.02/M	GRM2165C2A471JA01D

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Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
0805	C0G (NP0)	100	560pF	±5%	0.6	490-1612-1-ND	1.60	9.43	27.19	490-1612-2-ND	4,000	26.10/M	GRM2165C2A561JA01D
			680pF	±5%	0.85	490-1613-1-ND	1.68	9.95	28.69	490-1613-2-ND	4,000	27.54/M	GRM2195C2A681JA01D
			820pF	±5%	0.85	490-3311-1-ND	1.68	9.95	28.69	490-3311-2-ND	4,000	27.54/M	GRM2195C2A821JA01D
			1000pF	±5%	0.85	490-1614-1-ND	1.46	8.65	24.94	490-1614-2-ND	4,000	23.94/M	GRM2195C2A102JA01D
			1200pF	±5%	0.85	490-3313-1-ND	1.36	8.06	23.25	490-3313-2-ND	4,000	22.32/M	GRM2195C2A122JA01D
			1500pF	±5%	0.85	490-3314-1-ND	1.36	8.06	23.25	490-3314-2-ND	4,000	22.32/M	GRM2195C2A152JA01D
		50	100pF	±5%	0.6	490-1615-1-ND	.74	4.36	12.56	490-1615-2-ND	4,000	12.06/M	GRM2165C1H101JA01D
			150pF	±5%	0.6	490-3315-1-ND	.92	5.46	15.75	490-3315-2-ND	4,000	15.12/M	GRM2165C1H151JA01D
			220pF	±5%	0.6	490-1616-1-ND	1.12	6.63	19.13	490-1616-2-ND	4,000	18.36/M	GRM2165C1H221JA01D
			330pF	±5%	0.6	490-3316-1-ND	1.27	7.48	21.56	490-3316-2-ND	4,000	20.70/M	GRM2165C1H331JA01D
			470pF	±5%	0.6	490-1617-1-ND	1.60	9.43	27.19	490-1617-2-ND	4,000	26.10/M	GRM2165C1H471JA01D
			620pF	±5%	0.6	490-1618-1-ND	1.73	10.21	29.44	490-1618-2-ND	4,000	28.26/M	GRM2165C1H621JA01D
			680pF	±5%	0.6	490-1619-1-ND	1.74	10.27	29.63	490-1619-2-ND	4,000	28.44/M	GRM2165C1H681JA01D
			750pF	±5%	0.6	490-1620-1-ND	1.77	10.47	30.19	490-1620-2-ND	4,000	28.98/M	GRM2165C1H751JA01D
			910pF	±5%	0.6	490-1621-1-ND	1.74	10.27	29.63	490-1621-2-ND	4,000	28.44/M	GRM2165C1H911JA01D
			1000pF	±5%	0.6	490-1622-1-ND	1.33	7.87	22.69	490-1622-2-ND	4,000	21.78/M	GRM2165C1H102JA01D
			1100pF	±5%	0.6	490-1623-1-ND	1.45	8.58	24.75	490-1623-2-ND	4,000	23.76/M	GRM2165C1H112JA01D
			1300pF	±5%	0.6	490-1624-1-ND	1.53	9.04	26.06	490-1624-2-ND	4,000	25.02/M	GRM2165C1H132JA01D
			1600pF	±5%	0.6	490-1625-1-ND	1.49	8.78	25.31	490-1625-2-ND	4,000	24.30/M	GRM2165C1H162JA01D
			1800pF	±5%	0.6	490-1626-1-ND	1.46	8.65	24.94	490-1626-2-ND	4,000	23.94/M	GRM2165C1H182JA01D
			2000pF	±5%	0.6	490-1627-1-ND	1.74	10.27	29.63	490-1627-2-ND	4,000	28.44/M	GRM2165C1H202JA01D
			2200pF	±5%	0.6	490-1628-1-ND	1.62	9.56	27.56	490-1628-2-ND	4,000	26.46/M	GRM2165C1H222JA01D
			2400pF	±5%	0.6	490-1629-1-ND	1.91	11.31	32.63	490-1629-2-ND	4,000	31.32/M	GRM2165C1H242JA01D
			2700pF	±5%	0.6	490-1630-1-ND	1.85	10.92	31.50	490-1630-2-ND	4,000	30.24/M	GRM2165C1H272JA01D
			3000pF	±5%	0.6	490-1631-1-ND	2.11	12.48	36.00	490-1631-2-ND	4,000	34.56/M	GRM2165C1H302JA01D
			3300pF	±5%	0.6	490-1632-1-ND	2.05	12.09	34.88	490-1632-2-ND	4,000	33.48/M	GRM2165C1H332JA01D
			3900pF	±5%	0.6	490-3045-1-ND	2.27	13.39	38.63	490-3045-2-ND	4,000	37.08/M	GRM2165C1H392JA01D
			4700pF	±5%	0.6	490-3044-1-ND	2.40	14.17	40.88	490-3044-2-ND	4,000	35.46/M	GRM2165C1H472JA01D
			5100pF	±5%	0.85	490-1635-1-ND	2.70	15.93	45.94	490-1635-2-ND	4,000	44.10/M	GRM2195C1H512JA01D
			5600pF	±5%	0.85	490-1636-1-ND	2.67	15.80	45.56	490-1636-2-ND	4,000	43.74/M	GRM2195C1H562JA01D
			6200pF	±5%	0.85	490-1637-1-ND	3.30	19.50	56.25	490-1637-2-ND	4,000	54.00/M	GRM2195C1H622JA01D
			6800pF	±5%	0.85	490-1638-1-ND	3.23	19.11	55.13	490-1638-2-ND	4,000	52.92/M	GRM2195C1H682JA01D
			7500pF	±5%	0.85	490-1639-1-ND	3.50	20.67	59.63	490-1639-2-ND	4,000	57.24/M	GRM2195C1H752JA01D
			8200pF	±5%	0.85	490-1640-1-ND	3.44	20.35	58.69	490-1640-2-ND	4,000	56.34/M	GRM2195C1H822JA01D
			9100pF	±5%	0.85	490-1641-1-ND	3.63	21.45	61.88	490-1641-2-ND	4,000	59.40/M	GRM2195C1H912JA01D
			10000pF	±5%	0.85	490-1642-1-ND	4.85	28.67	82.69	490-1642-2-ND	4,000	79.38/M	GRM2195C1H103JA01D
			12000pF	±5%	0.85	490-3320-1-ND	5.04	29.77	85.88	490-3320-2-ND	4,000	82.44/M	GRM2195C1H123JA01D
			15000pF	±5%	0.85	490-1643-1-ND	5.27	31.14	89.81	490-1643-2-ND	4,000	86.22/M	GRM2195C1H153JA01D
			18000pF	±5%	1.25	490-3321-1-ND	5.24	30.94	89.25	490-3321-2-ND	3,000	85.68/M	GRM21B5C1H183JA01L
			22000pF	±5%	1.25	490-1644-1-ND	4.57	26.98	77.81	490-1644-2-ND	3,000	74.70/M	GRM21B5C1H223JA01L
	X7R	250	1000pF	±10%	1.0	490-3525-1-ND	1.83	10.79	31.13	490-3525-2-ND	4,000	30.00/M	GRM21AR72E102KW01D
			1500pF	±10%	1.0	490-3527-1-ND	1.90	11.25	32.44	490-3527-2-ND	4,000	31.00/M	GRM21AR72E152KW01D
			2200pF	±10%	1.0	490-3529-1-ND	2.01	11.90	34.31	490-3529-2-ND	4,000	33.00/M	GRM21AR72E222KW01D
			3300pF	±10%	1.0	490-3531-1-ND	2.01	11.90	34.31	490-3531-2-ND	4,000	33.00/M	GRM21AR72E332KW01D
			4700pF	±10%	1.0	490-3532-1-ND	2.01	11.90	34.31	490-3532-2-ND	4,000	33.00/M	GRM21AR72E472KW01D
			6800pF	±10%	1.0	490-3533-1-ND	2.16	12.74	36.75	490-3533-2-ND	4,000	35.00/M	GRM21AR72E682KW01D
			10000pF	±10%	1.25	490-3534-1-ND	1.82	10.73	30.94	490-3534-2-ND	3,000	30.00/M	GRM21BR72E103KW03L
		100	3900pF	±10%	0.85	490-1645-1-ND	1.36	8.06	23.25	490-1645-2-ND	4,000	22.32/M	GRM219R72A392KA01D
			4700pF	±10%	0.85	490-1646-1-ND	1.07	6.31	18.19	490-1646-2-ND	4,000	17.46/M	GRM219R72A472KA01D
			4700pF	±20%	0.85	490-1647-1-ND	1.01	5.98	17.25	490-1647-2-ND	4,000	16.56/M	GRM219R72A472MA01D
			5600pF	±10%	0.85	490-1648-1-ND	1.39	8.19	23.63	490-1648-2-ND	4,000	22.68/M	GRM219R72A562KA01D
			6800pF	±10%	0.85	490-1649-1-ND	1.13	6.70	19.31	490-1649-2-ND	4,000	18.54/M	GRM219R72A682KA01D
			6800pF	±20%	0.85	490-1650-1-ND	1.08	6.37	18.38	490-1650-2-ND	4,000	17.64/M	GRM219R72A682MA01D
			8200pF	±10%	1.25	490-1651-1-ND	1.38	8.13	23.44	490-1651-2-ND	3,000	22.50/M	GRM21BR72A822KA01L
			10000pF	±10%	1.25	490-1652-1-ND	1.17	6.89	19.88	490-1652-2-ND	3,000	19.08/M	GRM21BR72A103KA01L
			10000pF	±20%	1.25	490-1653-1-ND	1.17	6.89	19.88	490-1653-2-ND	3,000	19.08/M	GRM21BR72A103MA01L
			12000pF	±10%	1.25	490-1654-1-ND	1.52	8.97	25.88	490-1654-2-ND	3,000	24.84/M	GRM21BR72A123KA01L
			15000pF	±10%	1.25	490-1655-1-ND	1.22	7.22	20.81	490-1655-2-ND	3,000	19.98/M	GRM21BR72A153KA01L
			15000pF	±20%	1.25	490-1656-1-ND	1.22	7.22	20.81	490-1656-2-ND	3,000	19.98/M	GRM21BR72A153MA01L
			18000pF	±10%	1.25	490-1657-1-ND	1.52	8.97	25.88	490-1657-2-ND	3,000	24.84/M	GRM21BR72A183KA01L
			22000pF	±10%	1.25	490-1658-1-ND	1.49	8.78	25.31	490-1658-2-ND	3,000	24.30/M	GRM21BR72A223KA01L
			22000pF	±20%	1.25	490-1659-1-ND	1.49	8.78	25.31	490-1659-2-ND	3,000	24.30/M	GRM21BR72A223MA01L
			33000pF	±10%	1.25	490-3323-1-ND	1.93	11.38	32.81	490-3323-2-ND	3,000	31.50/M	GRM21BR72A333KA01L
			47000pF	±10%	1.25	490-3325-1-ND	1.79	10.60	30.56	490-3325-2-ND	3,000	29.34/M	GRM21BR72A473KA01L
			.47µF	±10%	1.25	490-3326-1-ND	7.05	41.67	120.19	490-3326-2-ND	3,000	115.38/M	GRM21BR72A474KA73L
		50	10000pF	±10%	0.6	490-1664-1-ND	.55	3.25	9.38	490-1664-2-ND	4,000	9.00/M	GRM216R71H103KA01D
			22000pF	±10%	0.6	490-1665-1-ND	.81	4.81	13.88	490-1665-2-ND	4,000	13.32/M	GRM216R71H223KA01D
			33000pF	±10%	0.85	490-1660-1-ND	1.07	6.31	18.19	490-1660-2-ND	4,000	17.46/M	GRM219R71H333KA01D
			47000pF	±10%	1.25	490-1661-1-ND	1.50	8.84	25.50	490-1661-2-ND	3,000	24.48/M	GRM21BR71H473KA01L
			56000pF	±10%	1.25	490-1662-1-ND	1.61	9.49	27.38	490-1662-2-ND	3,000	26.28/M	GRM21BR71H563KA01L
			68000pF	±10%	1.25	490-1663-1-ND	2.00	11.83	34.13	490-1663-2-ND	3,000	32.76/M	GRM21BR71H683KA01L
			.1µF	±10%	1.25	490-1666-1-ND	1.33	7.87	22.69	490-1666-2-ND	3,000	21.78/M	GRM21BR71H104KA01L
			.15µF	±10%	1.25	490-1667-1-ND	2.61	15.41	44.44	490-1667-2-ND	3,000	42.66/M	GRM21BR71H154KA01L
			.15µF	±20%	1.25	490-1668-1-ND	2.61	15.41	44.44	490-1668-2-ND	3,000	42.66/M	GRM21BR71H154MA01L
			.18µF	±10%	1.25	490-1669-1-ND	3.37	19.89	57.38	490-1669-2-ND	3,000	55.08/M	GRM21BR71H184KA01L
			.22µF	±10%	1.25	490-1670-1-ND	2.67	15.80	45.56	490-1670-2-ND	3,000	43.74/M	GRM21BR71H224KA01L
			.22µF	±20%	1.25	490-1671-1-ND	2.64	15.60	45.00	490-1671-2-ND	3,000	43.20/M	GRM21BR71H224MA01L
			.33µF	±10%	0.85	490-3327-1-ND	3.09	18.27	52.69	490-3327-2-ND	4,000	50.58/M	GRM219R71H334KA88D
			.47µF	±10%	1.25	490-3328-1-ND	3.33	19.70	56.81	490-3328-2-ND	3,000	54.54/M	GRM21BR71H474KA88L
		25	68000pF	±10%	0.85	490-1672-1-ND	1.43	8.45	24.38	—	—	—	GRM219R71E683KA01L
			68000pF	±10%	0.85	490-3046-1-ND	1.39	8.19	23.63	490-3046-2-ND	4,000	22.68/M	GRM219R71E683KA01D
			.1µF	±10%	1.25	490-1673-1-ND	1.32	7.80	22.50	490-1673-2-ND	3,000	21.60/M	GRM21BR71E104KA01L
			.15µF	±10%	1.25	490-1674-1-ND	2.10	12.42	35.81	490-1674-2-ND	3,000	34.38/M	GRM21BR71E154KA01L
			.22µF	±10%	0.85	490-1675-1-ND	1.89	11.18	32.25	490-1675-2-ND	4,000	30.96/M	GRM219R71E224KA01D
			.27µF	±10%	0.85	490-1676-1-ND	3.87	22.88	66.00	490-1676-2-ND	4,000	63.36/M	GRM219R71E274KA01D
			.33µF	±10%	1.25	490-1677-1-ND	3.45	20.41	58.88	490-1677-2-ND	3,000	56.52/M	GRM21BR71E334KA01L
			.39µF	±10%	1.25	490-1679-1-ND	4.93	29.12	84.00	490-1679-2-ND	3,000	80.64/M	GRM21BR71E394KA01L
			.47µF	±10%	1.25	490-1680-1-ND	3.77	22.30	64.31	490-1680-2-ND	3,000	61.74/M	GRM21BR71E474KC01L
			.47µF	±20%	1.25	490-1681-1-ND	3.84	22.69	65.44	490-1681-2-ND	3,000	62.82/M	GRM21BR71E474MA01L
			2.2µF	±10%	1.25	490-3331-1-ND	3.99	23.60	68.06	490-3331-2-ND	3,000	65.34/M	GRM21BR71E225KA73L
		16	68000pF	±10%	0.85	490-1682-1-ND	1.39	8.19	23.63	490-1682-2-ND	4,000	22.68/M	GRM219R71C683KA01D
			.1µF	±10%	0.85	490-1683-1-ND	.85	5.01	14.44	490-1683-2-ND	4,000	13.86/M	GRM219R71C104KA01D
			.22µF	±10%	0.85	490-1684-1-ND	1.88	11.12	32.06	490-1684-2-ND	4,000	30.78/M	GRM219R71C224KA01D
			.47µF	±10%	0.85	490-1685-1-ND	3.32	19.63	56.63	490-1685-2-ND	4,000	54.36/M	GRM219R71C474KC01D
			.47µF	±20%	0.85	490-1686-1-ND	3.32	19.63	56.63	490-1686-2-ND	4,000	54.36/M	GRM219R71C474MC01D
			.47µF	±10%	1.25	490-3333-1-ND	3.62	21.39	61.69	490-3333-2-ND	3,000	59.22/M	GRM21BR71C474KA01L
			.56µF	±10%	0.85	490-1687-1-ND	4.83	28.54	82.31	490-1687-2-ND	4,000	79.02/M	GRM219R71C564KC01D
			.68µF	±10%	0.85	490-1688-1-ND	2.64	15.60	45.00	490-1688-2-ND	4,000	43.20/M	GRM219R71C684KC01D
			.68µF	±20%	0.85	490-1689-1-ND	2.41	14.24	41.06	490-1689-2-ND	4,000	39.42/M	GRM219R71C684MA 01D
			.82µF	±10%	1.25	490-1690-1-ND	5.61	33.15	95.63	490-1690-2-ND	3,000	91.80/M	GRM21BR71C824KC01L
			1.0µF	±10%	1.25	490-1691-1-ND	2.52	14.89	42.94	490-1691-2-ND	3,000	41.22/M	GRM21BR71C105KA01L
			1.0µF	±20%	1.25	490-1692-1-ND	2.32	13.72	39.56	490-1692-2-ND	3,000	37.98/M	GRM21BR71C105MA01L
			2.2µF	±10%	1.25	490-3906-1-ND ***NEW!***	3.04	17.94	51.75	490-3906-2-ND ***NEW!***	2,000	50.00/M	GRM21BR71C225KA12L

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Murata Part No.
							10	100	500		Size	Pricing	
0805	X7R	10	.22µF	±10%	0.6	490-1693-1-ND	1.88	11.12	32.06	490-1693-2-ND	4,000	30.78/M	GRM216R71A224KC01D
			.33µF	±10%	0.6	490-1694-1-ND	2.28	13.46	38.81	490-1694-2-ND	4,000	37.26/M	GRM216R71A334KC01D
			1.0µF	±10%	1.25	490-1695-1-ND	2.52	14.89	42.94	490-1695-2-ND	3,000	41.22/M	GRM21BR71A105KA01L
			2.2µF	±10%	1.25	490-1696-1-ND	3.19	18.85	54.38	490-1696-2-ND	3,000	52.20/M	GRM21BR71A225KA01L
			2.2µF	±20%	1.25	490-1697-1-ND	3.19	18.85	54.38	490-1697-2-ND	3,000	52.20/M	GRM21BR71A225MA01L
			10µF	±10%	1.25	490-3905-1-ND ***NEW!***	5.41	31.98	92.25	490-3905-2-ND ***NEW!***	3,000	89.00/M	GRM21BR71A106KE51L
		6.3	2.2µF	±10%	1.25	490-1698-1-ND	3.59	21.19	61.13	490-1698-2-ND	3,000	58.68/M	GRM21BR70J225KA01L
			2.2µF	±20%	1.25	490-1699-1-ND	3.19	18.85	54.38	490-1699-2-ND	3,000	52.20/M	GRM21BR70J225MA01L
			10µF	±10%	1.25	490-3904-1-ND ***NEW!***	5.41	31.98	92.25	490-3904-2-ND ***NEW!***	3,000	89.00/M	GRM21BR70J106KE76L
	X6S	10	4.7µF	±10%	0.85	490-3901-1-ND ***NEW!***	3.32	19.63	56.63	490-3901-2-ND ***NEW!***	4,000	54.00/M	GRM219C81A475KE34D
	X5R	25	1.0µF	±10%	0.6	490-1700-1-ND	3.26	19.24	55.50	490-1700-2-ND	4,000	53.28/M	GRM216R61E105KA12D
			2.2µF	±10%	0.85	490-1701-1-ND	4.99	29.51	85.13	490-1701-2-ND	4,000	81.72/M	GRM219R61E225KA12D
			2.2µF	±10%	1.25	490-3334-1-ND	3.64	21.52	62.06	490-3334-2-ND	3,000	59.58/M	GRM21BR61E225KA12L
			4.7µF	±10%	1.25	490-3335-1-ND	4.18	24.70	71.25	490-3335-2-ND	3,000	68.40/M	GRM21BR61E475KA12L
		16	2.2µF	±10%	0.85	490-3902-1-ND ***NEW!***	4.69	27.69	79.88	490-3902-2-ND ***NEW!***	4,000	77.00/M	GRM219R61C225KA88D
			2.2µF	±10%	1.25	490-3336-1-ND	3.05	18.01	51.94	490-3336-2-ND	3,000	49.86/M	GRM21BR61C225KA88L
			3.3µF	±10%	1.25	490-3337-1-ND	3.83	22.62	65.25	490-3337-2-ND	3,000	62.64/M	GRM21BR61C335KA88L
			4.7µF	±10%	1.25	490-3338-1-ND	4.21	24.90	71.81	490-3338-2-ND	3,000	68.94/M	GRM21BR61C475KA88L
			10µF	±10%	1.25	490-3886-1-ND ***NEW!***	5.48	32.37	93.38	490-3886-2-ND ***NEW!***	3,000	90.00/M	GRM21BR61C106KE15L
		10	1.0µF	±10%	0.85	490-1702-1-ND	1.62	9.56	27.56	490-1702-2-ND	4,000	26.46/M	GRM219R61A105KC01D
			1.0µF	±20%	0.85	490-1703-1-ND	1.61	9.49	27.38	490-1703-2-ND	4,000	26.28/M	GRM219R61A105MA01D
			2.2µF	±10%	0.6	490-1704-1-ND	2.81	16.58	47.81	490-1704-2-ND	4,000	45.90/M	GRM216R61A225KE24D
			2.2µF	±20%	0.6	490-1705-1-ND	2.81	16.58	47.81	490-1705-2-ND	4,000	45.90/M	GRM216R61A225ME24D
			3.3µF	±10%	0.85	490-1706-1-ND	4.02	23.73	68.44	490-1706-2-ND	4,000	65.70/M	GRM219R61A335KE19D
			4.7µF	±10%	0.85	490-1707-1-ND	6.40	37.83	109.13	490-1707-2-ND	4,000	104.76/M	GRM219R61A475KE19D
			4.7µF	±20%	0.85	490-1708-1-ND	6.39	37.77	108.94	490-1708-2-ND	4,000	104.58/M	GRM219R61A475ME19D
			10µF	±10%	1.25	490-1709-1-ND	7.01	41.41	119.44	490-1709-2-ND	3,000	114.66/M	GRM21BR61A106KE19L
		6.3	1.5µF	±10%	0.85	490-1710-1-ND	3.74	22.10	63.75	490-1710-2-ND	4,000	61.20/M	GRM219R60J155KC01D
			1.5µF	±20%	0.85	490-1711-1-ND	3.72	21.97	63.38	490-1711-2-ND	4,000	60.84/M	GRM219R60J155MC01D
			2.2µF	±10%	1.25	490-1712-1-ND	3.72	21.97	63.38	490-1712-2-ND	3,000	60.84/M	GRM21BR60J225KA01L
			3.3µF	±10%	1.25	490-1713-1-ND	5.98	35.36	102.00	490-1713-2-ND	3,000	97.92/M	GRM21BR60J335KA11L
			3.3µF	±20%	1.25	490-1714-1-ND	5.18	30.62	88.31	490-1714-2-ND	3,000	84.78/M	GRM21BR60J335MA11L
			4.7µF	±10%	0.85	490-1715-1-ND	6.40	37.83	109.13	490-1715-2-ND	4,000	104.76/M	GRM219R60J475KE01D
			4.7µF	±20%	0.85	490-1716-1-ND	6.40	37.83	109.13	490-1716-2-ND	4,000	104.76/M	GRM219R60J475ME01D
			10µF	±10%	0.85	490-3340-1-ND	6.25	36.92	106.50	490-3340-2-ND	4,000	102.24/M	GRM219R60J106KE19D
			10µF	±10%	1.25	490-1717-1-ND	7.01	41.41	119.44	490-1717-2-ND	3,000	114.66/M	GRM21BR60J106KE19L
			10µF	±20%	1.25	490-1718-1-ND	5.28	31.20	90.00	490-1718-2-ND	3,000	86.40/M	GRM21BR60J106ME19L
			22µF	±20%	1.25	490-1719-1-ND	20.68	122.20	352.50	490-1719-2-ND	3,000	338.40/M	GRM21BR60J226ME39L
	Y5V	100	10000pF	+80, -20%	1.25	490-3342-1-ND	2.06	12.16	35.06	490-3342-2-ND	3,000	33.66/M	GRM21BF52A103ZD01L
		50	10000pF	+80, -20%	0.6	490-1720-1-ND	.55	3.25	9.38	490-1720-2-ND	4,000	9.00/M	GRM216F51H103ZA01D
			33000pF	+80, -20%	0.6	490-1721-1-ND	.75	4.42	12.75	490-1721-2-ND	4,000	12.24/M	GRM216F51H333ZA01D
			68000pF	+80, -20%	0.6	490-1722-1-ND	.86	5.07	14.63	490-1722-2-ND	4,000	14.04/M	GRM216F51H683ZA01D
			.1µF	+80, -20%	0.85	490-1723-1-ND	.74	4.36	12.56	490-1723-2-ND	4,000	12.06/M	GRM219F51H104ZA01D
			.15µF	+80, -20%	0.85	490-1724-1-ND	1.60	9.43	27.19	490-1724-2-ND	4,000	26.10/M	GRM219F51H154ZA01D
			.22µF	+80, -20%	0.6	490-3047-1-ND	1.60	9.43	27.19	490-3047-2-ND	4,000	26.10/M	GRM216F51H224ZA01D
			1.0µF	+80, -20%	1.25	490-3903-1-ND ***NEW!***	1.12	6.63	19.13	490-3903-2-ND ***NEW!***	3,000	18.00/M	GRM21BF51H105ZA12L
		25	.1µF	+80, -20%	0.6	490-1726-1-ND	.57	3.38	9.75	490-1726-2-ND	4,000	9.36/M	GRM216F51E104ZA01D
			.15µF	+80, -20%	0.6	490-1727-1-ND	1.36	8.06	23.25	490-1727-2-ND	4,000	22.32/M	GRM216F51E154ZA01D
			.22µF	+80, -20%	0.85	490-1728-1-ND	1.44	8.52	24.56	490-1728-2-ND	4,000	23.58/M	GRM219F51E224ZA01D
			.33µF	+80, -20%	1.25	490-1729-1-ND	2.09	12.35	35.63	490-1729-2-ND	3,000	34.20/M	GRM21BF51E334ZA01L
			.47µF	+80, -20%	0.6	490-3346-1-ND	1.56	9.23	26.63	490-3346-2-ND	4,000	25.56/M	GRM216F51E474ZA01D
			.47µF	+80, -20%	1.25	490-1730-1-ND	1.89	11.18	32.25	490-1730-2-ND	3,000	30.96/M	GRM21BF51E474ZA01L
			1.0µF	+80, -20%	0.85	490-1731-1-ND	1.13	6.70	19.31	490-1731-2-ND	4,000	18.54/M	GRM219F51E105ZA01D
			1.5µF	+80, -20%	1.25	490-1732-1-ND	1.78	10.53	30.38	490-1732-2-ND	3,000	29.16/M	GRM21BF51E155ZA01L
			2.2µF	+80, -20%	1.25	490-1733-1-ND	2.48	14.63	42.19	490-1733-2-ND	3,000	40.50/M	GRM21BF51E225ZA01L
			4.7µF	+80, -20%	1.25	490-3345-1-ND	3.09	18.27	52.69	490-3345-2-ND	3,000	50.58/M	GRM21BF51E475ZA01L
		16	.1µF	+80, -20%	0.6	490-1734-1-ND	.74	4.36	12.56	490-1734-2-ND	4,000	12.06/M	GRM216F51C104ZA01D
			.22µF	+80, -20%	0.85	490-1735-1-ND	1.47	8.71	25.13	490-1735-2-ND	4,000	24.12/M	GRM219F51C224ZA01D
			.33µF	+80, -20%	0.85	490-1736-1-ND	2.11	12.48	36.00	490-1736-2-ND	4,000	34.56/M	GRM219F51C334ZA01D
			.47µF	+80, -20%	1.25	490-1737-1-ND	2.10	12.42	35.81	490-1737-2-ND	3,000	34.38/M	GRM21BF51C474ZA01L
			.68µF	+80, -20%	1.25	490-1738-1-ND	3.08	18.20	52.50	490-1738-2-ND	3,000	50.40/M	GRM21BF51C684ZA01L
			1.0µF	+80, -20%	0.85	490-1739-1-ND	1.10	6.50	18.75	490-1739-2-ND	4,000	18.00/M	GRM219F51C105ZA01D
			1.5µF	+80, -20%	1.25	490-1740-1-ND	2.13	12.61	36.38	490-1740-2-ND	3,000	34.92/M	GRM21BF51C155ZA01L
			2.2µF	+80, -20%	1.25	490-1741-1-ND	2.39	14.11	40.69	490-1741-2-ND	3,000	39.06/M	GRM21BF51C225ZA01L
			10µF	+80, -20%	1.25	490-3347-1-ND	3.40	20.09	57.94	490-3347-2-ND	3,000	55.62/M	GRM21BF51C106ZE15L
		10	1.5µF	+80, -20%	1.25	490-1742-1-ND	1.78	10.53	30.38	490-1742-2-ND	3,000	29.16/M	GRM21BF51A155ZA01L
			2.2µF	+80, -20%	1.25	490-1743-1-ND	2.39	14.11	40.69	490-1743-2-ND	3,000	39.06/M	GRM21BF51A225ZA01L
			3.3µF	+80, -20%	0.85	490-1744-1-ND	3.45	20.41	58.88	490-1744-2-ND	4,000	56.52/M	GRM219F51A335ZA01D
			4.7µF	+80, -20%	1.25	490-1745-1-ND	2.95	17.42	50.25	490-1745-2-ND	3,000	48.24/M	GRM21BF51A475ZA01L
			10µF	+80, -20%	1.25	490-3332-1-ND	3.70	21.84	63.00	490-3332-2-ND	3,000	60.48/M	GRM21BF51A106ZE15L
		6.3	10µF	+80, -20%	1.25	490-1746-1-ND	3.70	21.84	63.00	490-1746-2-ND	3,000	60.48/M	GRM21BF50J106ZE01L
	Z5U	50	47000pF	±20%	0.6	490-1747-1-ND	.77	4.55	13.13	490-1747-2-ND	4,000	12.60/M	GRM216E41H473MA01D
			.1µF	±20%	0.85	490-1748-1-ND	.87	5.14	14.81	490-1748-2-ND	4,000	14.22/M	GRM219E41H104MA01D
1206	C0G (NP0)	100	1000pF	±5%	0.85	490-3348-1-ND	3.06	18.07	52.13	490-3348-2-ND	4,000	50.04/M	GRM3195C2A102JA01D
			1500pF	±5%	0.85	490-3349-1-ND	4.10	24.25	69.94	490-3349-2-ND	4,000	67.14/M	GRM3195C2A152JA01D
			2200pF	±5%	0.85	490-3350-1-ND	4.92	29.06	83.81	490-3350-2-ND	4,000	80.46/M	GRM3195C2A222JA01D
			3300pF	±5%	0.85	490-3351-1-ND	4.65	27.50	79.31	490-3351-2-ND	4,000	76.14/M	GRM3195C2A332JA01D
			4700pF	±5%	0.85	490-3352-1-ND	6.62	39.13	112.88	490-3352-2-ND	4,000	108.36/M	GRM3195C2A472JA01D
			5600pF	±5%	0.85	490-3353-1-ND	7.08	41.86	120.75	490-3353-2-ND	4,000	115.92/M	GRM3195C2A562JA01D
		50	1000pF	±5%	0.85	490-1749-1-ND	7.06	41.73	120.38	490-1749-2-ND	4,000	115.56/M	GRM3195C1H102JA01D
			1500pF	±5%	0.85	490-3354-1-ND	8.80	52.00	150.00	490-3354-2-ND	4,000	144.00/M	GRM3195C1H152JA01D
			2200pF	±5%	0.85	490-3355-1-ND	7.65	45.18	130.31	490-3355-2-ND	4,000	125.10/M	GRM3195C1H222JA01D
			3300pF	±5%	0.85	490-3356-1-ND	8.61	50.90	146.81	490-3356-2-ND	4,000	140.94/M	GRM3195C1H332JA01D
			4700pF	±5%	0.85	490-3357-1-ND	4.58	27.04	78.00	490-3357-2-ND	4,000	74.88/M	GRM3195C1H472JA01D
			5600pF	±5%	0.85	490-1750-1-ND	4.93	29.12	84.00	490-1750-2-ND	4,000	80.64/M	GRM3195C1H562JA01D
			6200pF	±5%	0.85	490-1751-1-ND	5.18	30.62	88.31	490-1751-2-ND	4,000	84.78/M	GRM3195C1H622JA01D
			6800pF	±5%	0.85	490-1752-1-ND	5.25	31.01	89.44	490-1752-2-ND	4,000	85.86/M	GRM3195C1H682JA01D
			8200pF	±5%	0.85	490-1753-1-ND	5.60	33.09	95.44	490-1753-2-ND	4,000	91.62/M	GRM3195C1H822JA01D
			10000pF	±5%	0.85	490-1754-1-ND	5.90	34.84	100.50	490-1754-2-ND	4,000	96.48/M	GRM3195C1H103JA01D
			11000pF	±5%	0.85	490-1755-1-ND	6.36	37.57	108.38	490-1755-2-ND	4,000	104.04/M	GRM3195C1H113JA01D
			12000pF	±5%	0.85	490-1756-1-ND	6.30	37.25	107.44	490-1756-2-ND	4,000	103.14/M	GRM3195C1H123JA01D
			13000pF	±5%	0.85	490-1757-1-ND	6.36	37.57	108.38	490-1757-2-ND	4,000	104.04/M	GRM3195C1H133JA01D
			15000pF	±5%	0.85	490-1758-1-ND	6.38	37.70	108.75	490-1758-2-ND	4,000	104.40/M	GRM3195C1H153JA01D
			18000pF	±5%	0.85	490-1759-1-ND	6.45	38.09	109.88	490-1759-2-ND	4,000	105.48/M	GRM3195C1H183JA01D
			20000pF	±5%	0.85	490-1760-1-ND	6.49	38.35	110.63	490-1760-2-ND	4,000	106.20/M	GRM3195C1H203JA01D
			22000pF	±5%	0.85	490-1761-1-ND	6.53	38.61	111.38	490-1761-2-ND	4,000	106.92/M	GRM3195C1H223JA01D
			27000pF	±5%	0.85	490-1762-1-ND	6.62	39.13	112.88	490-1762-2-ND	4,000	108.36/M	GRM3195C1H273JA01D
			33000pF	±5%	0.85	490-1763-1-ND	6.74	39.85	114.94	490-1763-2-ND	4,000	110.34/M	GRM3195C1H333JA01D
			39000pF	±5%	1.15	490-3358-1-ND	7.17	42.38	122.25	490-3358-2-ND	3,000	117.36/M	GRM31M5C1H393JA01L
			47000pF	±5%	1.15	490-1764-1-ND	7.30	43.16	124.50	490-1764-2-ND	3,000	119.52/M	GRM31M5C1H473JA01L
			56000pF	±5%	1.6	490-3359-1-ND	7.90	46.67	134.63	490-3359-2-ND	2,000	129.24/M	GRM31C5C1H563JA01L
			68000pF	±5%	1.6	490-3360-1-ND	8.04	47.52	137.06	490-3360-2-ND	2,000	131.58/M	GRM31C5C1H683JA01L
			82000pF	±5%	1.6	490-1765-1-ND	8.42	49.73	143.44	490-1765-2-ND	2,000	137.70/M	GRM31C5C1H823JA01L
		25	39000pF	±5%	0.85	490-3361-1-ND	7.12	42.06	121.31	490-3361-2-ND	4,000	116.46/M	GRM3195C1E393JA01D
			68000pF	±5%	1.6	490-1766-1-ND	8.04	47.52	137.06	490-1766-2-ND	2,000	131.58/M	GRM31C5C1E683JA01L
			.1µF	±5%	1.6	490-1767-1-ND	8.78	51.87	149.63	490-1767-2-ND	2,000	143.64/M	GRM31C5C1E104JA01L

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Murata Part No.
							10	100	500		Size	Pricing	
1206	X7R	1,000	1000pF	±10%	1.25	490-3494-1-ND	5.50	32.50	93.75	490-3494-2-ND	3,000	90.00/M	GRM31BR73A102KW01L
			1500pF	±10%	1.25	490-3495-1-ND	5.51	32.57	93.94	490-3495-2-ND	3,000	90.00/M	GRM31BR73A152KW01L
			2200pF	±10%	1.25	490-3496-1-ND	5.64	33.35	96.19	490-3496-2-ND	3,000	92.00/M	GRM31BR73A222KW01L
			3300pF	±10%	1.25	490-3497-1-ND	5.69	33.61	96.94	490-3497-2-ND	3,000	93.00/M	GRM31BR73A332KW01L
			4700pF	±10%	1.25	490-3498-1-ND	5.85	34.58	99.75	490-3498-2-ND	3,000	96.00/M	GRM31BR73A472KW01L
		630	1000pF	±10%	1.25	490-3506-1-ND	4.63	27.37	78.94	490-3506-2-ND	3,000	76.00/M	GRM31BR72J102KW01L
			1500pF	±10%	1.25	490-3507-1-ND	4.63	27.37	78.94	490-3507-2-ND	3,000	76.00/M	GRM31BR72J152KW01L
			2200pF	±10%	1.25	490-3508-1-ND	5.15	30.42	87.75	490-3508-2-ND	3,000	84.00/M	GRM31BR72J222KW01L
			3300pF	±10%	1.25	490-3509-1-ND	5.15	30.42	87.75	490-3509-2-ND	3,000	84.00/M	GRM31BR72J332KW01L
			4700pF	±10%	1.25	490-3510-1-ND	5.45	32.18	92.81	490-3510-2-ND	3,000	86.00/M	GRM31BR72J472KW01L
			6800pF	±10%	1.25	490-3511-1-ND	5.53	32.70	94.31	490-3511-2-ND	3,000	91.00/M	GRM31BR72J682KW01L
			10000pF	±10%	1.25	490-3512-1-ND	4.93	29.12	84.00	490-3512-2-ND	3,000	81.00/M	GRM31BR72J103KW01L
			15000pF	±10%	1.6	490-3513-1-ND	5.25	31.01	89.44	490-3513-2-ND	2,000	86.00/M	GRM31CR72J153KW03L
		250	15000pF	±10%	1.25	490-3535-1-ND	5.45	32.18	92.81	490-3535-2-ND	3,000	89.00/M	GRM31BR72E153KW01L
			22000pF	±10%	1.25	490-3536-1-ND	5.45	32.18	92.81	490-3536-2-ND	3,000	89.00/M	GRM31BR72E223KW01L
			33000pF	±10%	1.6	490-3537-1-ND	5.45	32.18	92.81	490-3537-2-ND	2,000	89.00/M	GRM31CR72E333KW03L
			47000pF	±10%	1.6	490-3538-1-ND	5.45	32.18	92.81	490-3538-2-ND	2,000	89.00/M	GRM31CR72E473KW03L
			68000pF	±10%	1.25	490-3540-1-ND	5.34	31.53	90.94	490-3540-2-ND	3,000	87.00/M	GRM31BR72E683KW01L
			0.1µF	±10%	1.6	490-3542-1-ND	5.51	32.57	93.94	490-3542-2-ND	2,000	90.00/M	GRM31CR72E104KW03L
		100	27000pF	±10%	1.15	490-1768-1-ND	5.82	34.39	99.19	490-1768-2-ND	3,000	95.22/M	GRM31MR72A273KA01L
			33000pF	±10%	1.15	490-1770-1-ND	6.05	35.75	103.13	490-1770-2-ND	3,000	99.00/M	GRM31MR72A333KA01L
			33000pF	±20%	1.15	490-1769-1-ND	1.83	10.79	31.13	490-1769-2-ND	3,000	29.88/M	GRM31MR72A333MA01L
			39000pF	±10%	1.15	490-1771-1-ND	1.84	10.86	31.31	490-1771-2-ND	3,000	30.06/M	GRM31MR72A393KA01L
			47000pF	±10%	1.15	490-1773-1-ND	6.57	38.81	111.94	490-1773-2-ND	3,000	107.46/M	GRM31MR72A473KA01L
			47000pF	±20%	1.15	490-1772-1-ND	6.57	38.81	111.94	490-1772-2-ND	3,000	107.46/M	GRM31MR72A473MA01L
			68000pF	±10%	1.15	490-3363-1-ND	2.18	12.87	37.13	490-3363-2-ND	3,000	35.64/M	GRM31MR72A683KA01L
			1.0µF	±10%	1.6	490-3909-1-ND ***NEW!***	10.07	59.48	171.56	490-3909-2-ND ***NEW!***	2,000	165.00/M	GRM31CR72A105KA01L
		50	10000pF	±10%	0.85	490-1774-1-ND	1.46	8.65	24.94	490-1774-2-ND	4,000	23.94/M	GRM319R71H103KA01D
			.1µF	±10%	0.85	490-1775-1-ND	1.74	10.27	29.63	490-1775-2-ND	4,000	28.44/M	GRM319R71H104KA01D
			.22µF	±10%	0.85	490-1776-1-ND	3.14	18.53	53.44	490-1776-2-ND	4,000	51.30/M	GRM319R71H224KA01D
			.27µF	±10%	0.85	490-1777-1-ND	4.26	25.16	72.56	490-1777-2-ND	4,000	69.66/M	GRM319R71H274KA01D
			.33µF	±10%	0.85	490-1778-1-ND	4.31	25.48	73.50	490-1778-2-ND	4,000	70.56/M	GRM319R71H334KA01D
			.33µF	±20%	0.85	490-1779-1-ND	4.25	25.09	72.38	490-1779-2-ND	4,000	69.48/M	GRM319R71H334MA01D
			.39µF	±10%	1.15	490-1780-1-ND	6.20	36.66	105.75	490-1780-2-ND	3,000	101.52/M	GRM31MR71H394KA01L
			.47µF	±10%	1.15	490-1781-1-ND	6.20	36.66	105.75	490-1781-2-ND	3,000	101.52/M	GRM31MR71H474KA01L
			.47µF	±20%	1.15	490-1782-1-ND	6.20	36.66	105.75	490-1782-2-ND	3,000	101.52/M	GRM31MR71H474MA01L
			1.0µF	±10%	1.6	490-3908-1-ND ***NEW!***	4.53	26.78	77.25	490-3908-2-ND ***NEW!***	2,000	74.00/M	GRM31CR71H105KA61L
			2.2µF	±10%	1.6	490-3367-1-ND	6.24	36.86	106.31	490-3367-2-ND	2,000	102.06/M	GRM31CR71H225KA88L
		25	.33µF	±10%	0.85	490-1783-1-ND	4.31	25.48	73.50	490-1783-2-ND	4,000	70.56/M	GRM319R71E334KA01D
			.47µF	±10%	0.85	490-1784-1-ND	4.99	29.51	85.13	490-1784-2-ND	4,000	81.72/M	GRM319R71E474KA01D
			.68µF	±10%	0.85	490-1787-1-ND	5.81	34.32	99.00	490-1787-2-ND	4,000	95.04/M	GRM319R71E684KA01D
			.68µF	±20%	0.85	490-1786-1-ND	6.07	35.88	103.50	490-1786-2-ND	4,000	99.36/M	GRM319R71E684MA01D
			.82µF	±10%	1.15	490-1788-1-ND	6.12	36.14	104.25	490-1788-2-ND	3,000	100.08/M	GRM31MR71E824KA01L
			1.0µF	±10%	1.15	490-1789-1-ND	3.42	20.22	58.31	490-1789-2-ND	3,000	55.98/M	GRM31MR71E105KC01L
			1.0µF	±20%	1.15	490-1790-1-ND	3.42	20.22	58.31	490-1790-2-ND	3,000	55.98/M	GRM31MR71E105MC01L
			2.2µF	±10%	1.15	490-3368-1-ND	4.58	27.04	78.00	490-3368-2-ND	3,000	74.88/M	GRM31MR71E225KA93L
			4.7µF	±10%	1.6	490-1809-1-ND	6.17	36.47	105.19	490-1809-2-ND	2,000	100.98/M	GRM31CR71E475KA88L
		16	.47µF	±10%	0.85	490-1791-1-ND	4.52	26.72	77.06	490-1791-2-ND	3,000	73.98/M	GRM319R71C474KC01L
			.56µF	±10%	0.85	490-1792-1-ND	5.31	31.40	90.56	490-1792-2-ND	4,000	86.94/M	GRM319R71C564KA01D
			.68µF	±10%	1.15	490-1793-1-ND	5.63	33.28	96.00	490-1793-2-ND	3,000	92.16/M	GRM31MR71C684KA01L
			1.0µF	±10%	0.85	490-1794-1-ND	2.63	15.54	44.81	490-1794-2-ND	4,000	43.02/M	GRM319R71C105KC11D
			1.0µF	±20%	0.85	490-1795-1-ND	2.63	15.54	44.81	490-1795-2-ND	4,000	43.02/M	GRM319R71C105MC11D
			1.5µF	±10%	1.15	490-1797-1-ND	3.49	20.61	59.44	490-1797-2-ND	3,000	57.06/M	GRM31MR71C155KA35L
			1.5µF	±20%	1.15	490-1796-1-ND	3.49	20.61	59.44	490-1796-2-ND	3,000	57.06/M	GRM31MR71C155MA35L
			2.2µF	±10%	1.15	490-1799-1-ND	4.29	25.35	73.13	490-1799-2-ND	3,000	70.20/M	GRM31MR71C225KA35L
			2.2µF	±20%	1.15	490-1798-1-ND	3.53	20.87	60.19	490-1798-2-ND	3,000	57.78/M	GRM31MR71C225MA35L
			10µF	±10%	1.6	490-3911-1-ND ***NEW!***	5.93	35.04	101.06	490-3911-2-ND ***NEW!***	2,000	97.00/M	GRM31CR71C106KAC7L
		10	1.0µF	±10%	0.85	490-1800-1-ND	2.64	15.60	45.00	490-1800-2-ND	4,000	43.20/M	GRM319R71A105KC01D
			1.0µF	±20%	0.85	490-1801-1-ND	2.63	15.54	44.81	490-1801-2-ND	4,000	43.02/M	GRM319R71A105MC01D
			2.2µF	±10%	1.15	490-1803-1-ND	4.11	24.31	70.13	490-1803-2-ND	3,000	67.32/M	GRM31MR71A225KA01L
			2.2µF	±20%	1.15	490-1802-1-ND	4.11	24.31	70.13	490-1802-2-ND	3,000	67.32/M	GRM31MR71A225MA01L
			4.7µF	±10%	1.6	490-1805-1-ND	6.40	37.83	109.13	490-1805-2-ND	2,000	104.76/M	GRM31CR71A475KA01L
			4.7µF	±20%	1.6	490-1804-1-ND	6.40	37.83	109.13	490-1804-2-ND	2,000	104.76/M	GRM31CR71A475MA01L
			10µF	±10%	1.6	490-3371-1-ND	6.23	36.79	106.13	490-3371-2-ND	2,000	101.88/M	GRM31CR71A106KA01L
		6.3	10µF	±10%	1.6	490-1806-1-ND	8.38	49.53	142.88	490-1806-2-ND	2,000	137.16/M	GRM31CR70J106KA01L
	X5R	25	1.0µF	±10%	0.85	490-1807-1-ND	2.92	17.23	49.69	490-1807-2-ND	4,000	47.70/M	GRM319R61E105KC36D
			2.2µF	±10%	0.6	490-1808-1-ND	5.35	31.59	91.13	490-1808-2-ND	4,000	87.48/M	GRM316R61E225KA12D
			4.7µF	±10%	0.85	490-3372-1-ND	8.06	47.65	137.44	490-3372-2-ND	4,000	131.94/M	GRM319R61E475KA12D
			10µF	±10%	1.6	490-3373-1-ND	10.23	60.45	174.38	490-3373-2-ND	2,000	167.40/M	GRM31CR61E106KA12L
		16	1.0µF	±10%	1.15	490-1810-1-ND	3.18	18.79	54.19	490-1810-2-ND	3,000	52.02/M	GRM31MR61C105KA01L
			2.2µF	±10%	1.15	490-1811-1-ND	3.53	20.87	60.19	490-1811-2-ND	3,000	57.78/M	GRM31MR61C225KA35L
			4.7µF	±10%	0.85	490-3374-1-ND	7.81	46.15	133.13	490-3374-2-ND	4,000	127.80/M	GRM319R61C475KA88D
			4.7µF	±10%	1.6	490-1812-1-ND	8.60	50.83	146.63	490-1812-2-ND	2,000	140.76/M	GRM31CR61C475KA01L
			4.7µF	±20%	1.6	490-1813-1-ND	5.81	34.32	99.00	490-1813-2-ND	2,000	95.04/M	GRM31CR61C475MA01L
			10µF	±10%	1.6	490-1814-1-ND	7.92	46.80	135.00	490-1814-2-ND	2,000	129.60/M	GRM31CR61C106KC31L
		10	2.2µF	±10%	0.85	490-1815-1-ND	3.34	19.76	57.00	490-1815-2-ND	4,000	54.72/M	GRM319R61A225KA01D
			2.2µF	±20%	0.85	490-1816-1-ND	3.32	19.63	56.63	490-1816-2-ND	4,000	54.36/M	GRM319R61A225MA01D
			3.3µF	±10%	0.85	490-1817-1-ND	7.11	41.99	121.13	490-1817-2-ND	4,000	116.28/M	GRM319R61A335KA01D
			4.7µF	±10%	0.85	490-3377-1-ND	6.55	38.68	111.56	490-3377-2-ND	4,000	107.10/M	GRM319R61A475KA01D
			4.7µF	±10%	0.6	490-1818-1-ND	4.66	27.56	79.50	490-1818-2-ND	4,000	76.32/M	GRM316R61A475KE19D
			10µF	±10%	0.85	490-3378-1-ND	14.53	85.87	247.69	490-3378-2-ND	4,000	237.78/M	GRM319R61A106KE19D
			10µF	±10%	1.6	490-1820-1-ND	8.38	49.53	142.88	490-1820-2-ND	2,000	137.16/M	GRM31CR61A106KA01L
			10µF	±20%	1.15	490-1819-1-ND	6.80	40.17	115.88	490-1819-2-ND	3,000	111.24/M	GRM31MR61A106ME19L
		6.3	4.7µF	±10%	1.15	490-1821-1-ND	5.13	30.29	87.38	—	—	—	GRM31MR60J475KA01L
			4.7µF	±10%	1.15	490-3043-1-ND	5.13	30.29	87.38	490-3043-2-ND	3,000	83.88/M	GRM31MR60J475KC11L
			10µF	±10%	0.85	490-1823-1-ND	15.40	91.00	262.50	490-1823-2-ND	4,000	252.00/M	GRM319R60J106KE01D
			10µF	±20%	0.85	490-1822-1-ND	15.39	90.94	262.31	490-1822-2-ND	4,000	251.82/M	GRM319R60J106ME01D
			10µF	±10%	1.15	490-3379-1-ND	6.24	36.86	106.31	490-3379-2-ND	3,000	102.06/M	GRM31MR60J106KE19L
			22µF	±10%	1.6	490-1824-1-ND	16.56	97.83	282.19	490-1824-2-ND	2,000	270.90/M	GRM31CR60J226KE19L
			47µF	±20%	1.6	490-3907-1-ND ***NEW!***	35.38	209.04	603.00	490-3907-2-ND ***NEW!***	2,000	579.00/M	GRM31CR60J476ME19L
	Y5V	100	47000pF	+80, -20%	1.15	490-3380-1-ND	7.05	41.67	120.19	490-3380-2-ND	3,000	115.38/M	GRM31MF52A473ZD01L
		50	.1µF	+80, -20%	0.85	490-1825-1-ND	1.36	8.06	23.25	490-1825-2-ND	4,000	22.32/M	GRM319F51H104ZA01D
			.33µF	+80, -20%	0.85	490-1826-1-ND	2.24	13.26	38.25	490-1826-2-ND	4,000	36.72/M	GRM319F51H334ZA01D
			.47µF	+80, -20%	1.15	490-1827-1-ND	4.29	25.35	73.13	490-1827-2-ND	3,000	70.20/M	GRM31MF51H474ZA01L
			2.2µF	+80, -20%	1.15	490-3381-1-ND	3.09	18.27	52.69	490-3381-2-ND	3,000	50.58/M	GRM31MF51H225ZA01L
			4.7µF	+80, -20%	1.6	490-1828-1-ND	4.24	25.03	72.19	490-1828-2-ND	2,000	69.30/M	GRM31CF51H475ZA01L
		25	.22µF	+80, -20%	0.85	490-1829-1-ND	2.10	12.42	35.81	490-1829-2-ND	4,000	34.38/M	GRM319F51E224ZA01D
			.47µF	+80, -20%	0.85	490-1830-1-ND	2.74	16.19	46.69	490-1830-2-ND	4,000	44.82/M	GRM319F51E474ZA01D
			.68µF	+80, -20%	1.15	490-1831-1-ND	3.75	22.17	63.94	490-1831-2-ND	3,000	61.38/M	GRM31MF51E684ZA01L
			1.0µF	+80, -20%	1.15	490-1832-1-ND	1.79	10.60	30.56	490-1832-2-ND	3,000	29.34/M	GRM31MF51E105ZA01L
			4.7µF	+80, -20%	1.15	490-1833-1-ND	3.75	22.17	63.94	490-1833-2-ND	3,000	61.38/M	GRM31MF51E475ZA01L
			10µF	+80, -20%	1.6	490-3382-1-ND	5.83	34.45	99.38	490-3382-2-ND	2,000	95.40/M	GRM31CF51E106ZA01L
		16	.47µF	+80, -20%	0.85	490-1834-1-ND	2.73	16.12	46.50	490-1834-2-ND	3,000	44.64/M	GRM319F51C474ZA01L
			1.0µF	+80, -20%	0.85	490-1835-1-ND	1.83	10.79	31.13	490-1835-2-ND	4,000	29.88/M	GRM319F51C105ZA01D
			1.5µF	+80, -20%	1.15	490-1836-1-ND	3.30	19.50	56.25	490-1836-2-ND	3,000	54.00/M	GRM31MF51C155ZA01L
			2.2µF	+80, -20%	1.15	490-1837-1-ND	3.38	19.96	57.56	490-1837-2-ND	3,000	55.26/M	GRM31MF51C225ZA01L

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 500	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Murata Part No.
1206	Y5V	16	3.3µF	+80, -20%	1.15	490-1838-1-ND	3.88	22.95	66.19	490-1838-2-ND	3,000	63.54/M	GRM31MF51C335ZA01L
			4.7µF	+80, -20%	1.15	490-1839-1-ND	3.42	20.22	58.31	490-1839-2-ND	3,000	55.98/M	GRM31MF51C475ZA01L
			10µF	+80, -20%	1.15	490-3383-1-ND	4.93	29.12	84.00	490-3383-2-ND	3,000	80.64/M	GRM31MF51C106ZA12L
		10	2.2µF	+80, -20%	0.85	490-1840-1-ND	2.89	17.10	49.31	490-1840-2-ND	4,000	47.34/M	GRM319F51A225ZA01D
			3.3µF	+80, -20%	0.85	490-1841-1-ND	3.82	22.56	65.06	490-1841-2-ND	4,000	62.46/M	GRM319F51A335ZA01D
			4.7µF	+80, -20%	1.15	490-1842-1-ND	3.42	20.22	58.31	490-1842-2-ND	3,000	55.98/M	GRM31MF51A475ZA01L
			10µF	+80, -20%	1.15	490-1843-1-ND	5.43	32.11	92.63	490-1843-2-ND	3,000	88.92/M	GRM31MF51A106ZA01L
			22µF	+80, -20%	1.6	490-1844-1-ND	9.49	56.10	161.81	490-1844-2-ND	2,000	155.34/M	GRM31CF51A226ZE01L
		6.3	10µF	+80, -20%	1.15	490-1845-1-ND	4.37	25.81	74.44	490-1845-2-ND	3,000	71.46/M	GRM31MF50J106ZA01L
			22µF	+80, -20%	1.6	490-1846-1-ND	9.49	56.10	161.81	490-1846-2-ND	2,000	155.34/M	GRM31CF50J226ZE01L
	Z5U	50	.22µF	±20%	0.85	490-1847-1-ND	2.38	14.04	40.50	490-1847-2-ND	4,000	38.88/M	GRM319E41H224MA01D
1210	X7R	1,000	6800pF	±10%	1.5	490-3499-1-ND	10.73	63.38	182.81	490-3499-2-ND	2,000	176.00/M	GRM32QR73A682KW01L
			10000pF	±10%	1.5	490-3500-1-ND	11.36	67.15	193.69	490-3500-2-ND	2,000	186.00/M	GRM32QR73A103KW01L
			15000pF	±10%	2.0	490-3501-1-ND	12.80	75.66	218.25	490-3501-2-ND	1,000	210.00	GRM32DR73A153KW01L
			22000pF	±10%	2.0	490-3502-1-ND	13.09	77.35	223.13	490-3502-2-ND	1,000	214.00	GRM32DR73A223KW01L
		630	22000pF	±10%	1.5	490-3514-1-ND	8.42	49.73	143.44	490-3514-2-ND	2,000	138.00/M	GRM32QR72J223KW01L
			33000pF	±10%	2.0	490-3515-1-ND	9.61	56.81	163.88	490-3515-2-ND	1,000	157.00	GRM32DR72J333KW01L
			47000pF	±10%	2.0	490-3516-1-ND	12.33	72.87	210.19	490-3516-2-ND	1,000	202.00	GRM32DR72J473KW01L
		250	68000pF	±10%	1.5	490-3539-1-ND	7.57	44.72	129.00	490-3539-2-ND	2,000	124.00/M	GRM32QR72E683KW01L
			.1µF	±10%	2.0	490-3541-1-ND	7.63	45.11	130.13	490-3541-2-ND	1,000	125.00	GRM32DR72E104KW01L
			.22µF	±10%	2.0	490-3545-1-ND	7.24	42.77	123.38	490-3545-2-ND	1,000	118.00	GRM32DR72E224KW01L
		100	56000pF	±10%	1.35	490-1848-1-ND	7.91	46.74	134.81	490-1848-2-ND	2,000	129.42/M	GRM32NR72A563KA01L
			68000pF	±10%	1.35	490-1850-1-ND	8.28	48.95	141.19	490-1850-2-ND	2,000	135.54/M	GRM32NR72A683KA01L
			68000pF	±20%	1.35	490-1849-1-ND	7.95	47.00	135.56	490-1849-2-ND	2,000	130.14/M	GRM32NR72A683MA01L
			82000pF	±10%	1.35	490-1851-1-ND	8.17	48.30	139.31	490-1851-2-ND	2,000	133.74/M	GRM32NR72A823KA01L
			.1µF	±10%	1.35	490-1853-1-ND	8.45	49.92	144.00	490-1853-2-ND	2,000	138.24/M	GRM32NR72A104KA01L
			.1µF	±20%	1.35	490-1852-1-ND	8.45	49.92	144.00	490-1852-2-ND	2,000	138.24/M	GRM32NR72A104MA01L
			.68µF	±10%	1.6	490-1854-1-ND	12.25	72.41	208.88	490-1854-2-ND	2,000	200.52/M	GRM32CR72A684KA01L
			.68µF	±20%	1.6	490-1855-1-ND	12.25	72.41	208.88	490-1855-2-ND	2,000	200.52/M	GRM32CR72A684MA01L
			1.0µF	±10%	2.5	490-1857-1-ND	13.11	77.48	223.50	490-1857-2-ND	1,000	214.56	GRM32ER72A105KA01L
			1.0µF	±20%	2.5	490-1856-1-ND	13.11	77.48	223.50	490-1856-2-ND	1,000	214.56	GRM32ER72A105MA01L
			2.2µF	±10%	2.5	490-3385-1-ND	29.27	172.97	498.94	490-3385-2-ND	1,000	478.98	GRM32ER72A225KA35L
		50	.56µF	±10%	1.35	490-1858-1-ND	7.92	46.80	135.00	490-1858-2-ND	2,000	129.60/M	GRM32NR71H564KA01L
			.68µF	±10%	1.35	490-1860-1-ND	8.33	49.21	141.94	490-1860-2-ND	2,000	136.26/M	GRM32NR71H684KA01L
			.68µF	±20%	1.35	490-1859-1-ND	8.33	49.21	141.94	490-1859-2-ND	2,000	136.26/M	GRM32NR71H684MA01L
			.82µF	±10%	1.8	490-1861-1-ND	9.00	53.17	153.38	490-1861-2-ND	1,000	147.24	GRM32RR71H824KA01L
			1.0µF	±10%	1.8	490-1863-1-ND	6.59	38.94	112.31	490-1863-2-ND	1,000	107.82	GRM32RR71H105KA01L
			1.0µF	±20%	1.8	490-1862-1-ND	6.59	38.94	112.31	490-1862-2-ND	1,000	107.82	GRM32RR71H105MA01L
			3.3µF	±10%	2.0	490-3386-1-ND	19.90	117.59	339.19	490-3386-2-ND	1,000	325.62	GRM32DR71H335KA88L
			4.7µF	±10%	2.5	490-1864-1-ND	21.98	129.87	374.63	490-1864-2-ND	1,000	359.64	GRM32ER71H475KA88L
		25	2.2µF	±10%	1.8	490-1865-1-ND	9.41	55.58	160.31	490-1865-2-ND	1,000	153.90	GRM32RR71E225KC01L
			2.2µF	±20%	1.8	490-1866-1-ND	8.36	49.40	142.50	490-1866-2-ND	1,000	136.80	GRM32RR71E225MC01L
			10µF	±10%	2.0	490-1867-1-ND	17.72	104.72	302.06	490-1867-2-ND	1,000	289.98	GRM32DR71E106KA12L
		16	3.3µF	±10%	1.35	490-1871-1-ND	12.30	72.67	209.63	490-1871-2-ND	2,000	201.24/M	GRM32NR71C335KC01L
			3.3µF	±20%	1.35	490-1870-1-ND	12.30	72.67	209.63	490-1870-2-ND	2,000	201.24/M	GRM32NR71C335MA01L
			10µF	±10%	2.0	490-1875-1-ND	16.41	96.98	279.75	490-1875-2-ND	1,000	268.56	GRM32DR71C106KA01L
			10µF	±20%	2.0	490-1874-1-ND	16.41	96.98	279.75	490-1874-2-ND	1,000	268.56	GRM32DR71C106MA01L
			2.2µF	±10%	1.15	490-1869-1-ND	10.40	61.43	177.19	490-1869-2-ND	3,000	170.10/M	GRM32MR71C225KC01L
			2.2µF	±20%	1.15	490-1868-1-ND	9.25	54.67	157.69	490-1868-2-ND	3,000	151.38/M	GRM32MR71C225MC01L
			4.7µF	±10%	1.8	490-1872-1-ND	11.95	70.59	203.63	490-1872-2-ND	1,000	195.48	GRM32RR71C475KC01L
			4.7µF	±20%	1.8	490-1873-1-ND	11.95	70.59	203.63	490-1873-2-ND	1,000	195.48	GRM32RR71C475MC01L
		10	22µF	±10%	2.5	490-1876-1-ND	26.52	156.72	452.06	490-1876-2-ND	1,000	433.98	GRM32ER71A226KE20L
	X5R	25	4.7µF	±10%	1.8	490-1877-1-ND	12.61	74.49	214.88	490-1877-2-ND	1,000	206.28	GRM32RR61E475KC31L
			10µF	±10%	2.0	490-1878-1-ND	17.72	104.72	302.06	490-1878-2-ND	1,000	289.98	GRM32DR61E106KA12L
			22µF	±10%	2.5	490-3889-1-ND ***NEW!***	25.42	150.22	433.31	490-3889-2-ND ***NEW!***	1,000	416.00	GRM32ER61E226KE15L
		16	4.7µF	±10%	1.8	490-1879-1-ND	11.47	67.80	195.56	490-1879-2-ND	1,000	187.74	GRM32RR61C475KC01L
			10µF	±10%	2.0	490-1880-1-ND	15.60	92.17	265.88	490-1880-2-ND	1,000	255.24	GRM32DR61C106KA01L
			22µF	±10%	2.5	490-1882-1-ND	28.08	165.95	478.69	490-1882-2-ND	1,000	459.54	GRM32ER61C226KE20L
			22µF	±20%	2.5	490-1881-1-ND	28.08	165.95	478.69	490-1881-2-ND	1,000	459.54	GRM32ER61C226ME20L
			47µF	±20%	2.5	490-3888-1-ND ***NEW!***	30.34	179.27	517.13	490-3888-2-ND ***NEW!***	1,000	496.00	GRM32ER61C476ME15L
		10	10µF	±10%	2.5	490-1883-1-ND	14.81	87.49	252.38	490-1883-2-ND	1,000	242.28	GRM32ER61A106KC01L
			10µF	±20%	2.5	490-1884-1-ND	14.81	87.49	252.38	490-1884-2-ND	1,000	242.28	GRM32ER61A106MC01L
			22µF	±10%	2.5	490-3388-1-ND	26.81	158.41	456.94	490-3388-2-ND	1,000	438.66	GRM32ER61A226KE20L
			47µF	±10%	2.5	490-3887-1-ND ***NEW!***	37.46	221.33	613.00	490-3887-2-ND ***NEW!***	1,000	613.00	GRM32ER61A476KE20L
		6.3	22µF	±10%	2.0	490-1886-1-ND	27.96	165.23	476.63	490-1886-2-ND	1,000	457.56	GRM32DR60J226KA01L
			22µF	±20%	2.0	490-1885-1-ND	27.96	165.23	476.63	490-1885-2-ND	1,000	457.56	GRM32DR60J226MA01L
			33µF	±20%	2.0	490-3389-1-ND	27.89	164.78	475.31	490-3389-2-ND	1,000	456.30	GRM32DR60J336ME19L
			47µF	±20%	2.5	490-1887-1-ND	35.08	207.29	597.94	490-1887-2-ND	1,000	574.02	GRM32ER60J476ME20L
			100µF	±20%	2.5	490-3390-1-ND	74.28	438.95	1266.19	490-3390-2-ND	1,000	1215.54	GRM32ER60J107ME20L
	Y5V	100	.1µF	+80, -20%	1.35	490-1888-1-ND	6.13	36.21	104.44	490-1888-2-ND	2,000	100.26/M	GRM32NF52A104ZA01L
		50	.68µF	+80, -20%	1.35	490-1889-1-ND	7.87	46.48	134.06	490-1889-2-ND	2,000	128.70/M	GRM32NF51H684ZA01L
			1.0µF	+80, -20%	1.8	490-1890-1-ND	5.70	33.67	97.13	490-1890-2-ND	1,000	93.24	GRM32RF51H105ZA01L
			10µF	+80, -20%	2.0	490-1891-1-ND	11.24	66.43	191.63	490-1891-2-ND	1,000	183.96	GRM32DF51H106ZA01L
		25	4.7µF	+80, -20%	0.85	490-1892-1-ND	7.07	41.80	120.56	490-1892-2-ND	4,000	115.74/M	GRM329F51E475ZA01D
			10µF	+80, -20%	1.35	490-1893-1-ND	9.65	57.01	164.44	490-1893-2-ND	2,000	157.86/M	GRM32NF51E106ZA01L
		16	10µF	+80, -20%	1.35	490-1894-1-ND	9.48	56.03	161.63	490-1894-2-ND	2,000	155.16/M	GRM32NF51C106ZA01L
			22µF	+80, -20%	1.6	490-3392-1-ND	13.10	77.42	223.31	490-3392-2-ND	2,000	214.38/M	GRM32CF51C226ZA12L
		10	10µF	+80, -20%	0.85	490-3393-1-ND	7.95	47.00	135.56	490-3393-2-ND	4,000	130.14/M	GRM329F51A106ZA01D
			22µF	+80, -20%	1.6	490-1895-1-ND	12.39	73.19	211.13	490-1895-2-ND	2,000	117.15/M	GRM32CF51A226ZA01L
		6.3	100µF	+80, -20%	2.5	490-3394-1-ND	46.48	274.63	792.19	490-3394-2-ND	1,000	760.50	GRM32EF50J107ZE20L
	Z5U	50	1.0µF	±20%	1.8	490-1896-1-ND	5.90	34.84	100.50	490-1896-2-ND	1,000	96.48	GRM32RE41H105MA01L
1812	C0G (NP0)	50	9100pF	±5%	1.8	490-1897-1-ND	49.30	291.33	840.38	490-1897-2-ND	1,000	806.76	GRM43R5C1H912JD01L
			11000pF	±5%	1.8	490-1898-1-ND	59.37	350.81	1011.94	490-1898-2-ND	1,000	971.46	GRM43R5C1H113JD01L
			13000pF	±5%	1.8	490-1899-1-ND	70.75	418.08	1206.00	490-1899-2-ND	1,000	1157.76	GRM43R5C1H133JD01L
	X7R	1,000	33000pF	±10%	2.0	490-3503-1-ND	22.11	130.65	376.88	490-3503-2-ND	1,000	362.00	GRM43DR73A333KW01L
			47000pF	±10%	2.0	490-3504-1-ND	23.20	137.09	395.44	490-3504-2-ND	1,000	380.00	GRM43DR73A473KW01L
		630	68000pF	±10%	1.5	490-3517-1-ND	16.92	99.97	288.38	490-3517-2-ND	1,000	277.00	GRM43QR72J683KW01L
			.1µF	±10%	2.0	490-3518-1-ND	16.92	99.97	288.38	490-3518-2-ND	1,000	277.00	GRM43DR72J104KW01L
		250	.15µF	±10%	1.5	490-3543-1-ND	17.07	100.88	291.00	490-3543-2-ND	1,000	279.00	GRM43QR72E154KW01L
			.22µF	±10%	2.0	490-3544-1-ND	15.72	92.89	267.94	490-3544-2-ND	1,000	257.00	GRM43DR72E224KW01L
			.33µF	±10%	2.0	490-3547-1-ND	15.32	90.55	261.19	490-3547-2-ND	1,000	251.00	GRM43DR72E334KW01L
			.47µF	±10%	2.0	490-3549-1-ND	18.66	110.24	318.00	490-3549-2-ND	1,000	305.00	GRM43DR72E474KW01L
		100	.12µF	±10%	1.8	490-1900-1-ND	11.53	68.12	196.50	490-1900-2-ND	1,000	188.64	GRM43RR72A124KA01L
			.15µF	±10%	1.8	490-1901-1-ND	12.21	72.15	208.13	490-1901-2-ND	1,000	199.80	GRM43RR72A154KA01L
			.18µF	±10%	1.8	490-1902-1-ND	15.75	93.08	268.50	490-1902-2-ND	1,000	257.76	GRM43RR72A184KA01L
			.22µF	±10%	1.8	490-1903-1-ND	17.07	100.88	291.00	490-1903-2-ND	1,000	279.36	GRM43RR72A224KA01L
			.22µF	±20%	1.8	490-1904-1-ND	17.07	100.88	291.00	490-1904-2-ND	1,000	279.36	GRM43RR72A224MA01L
			.47µF	±10%	2.0	490-1905-1-ND	30.49	180.18	519.75	490-1905-2-ND	1,000	498.96	GRM43DR72A474KA01L
			1.5µF	±10%	2.0	490-1906-1-ND	32.97	194.81	561.94	490-1906-2-ND	1,000	539.46	GRM43DR72A155KA01L
			1.5µF	±20%	2.0	490-1907-1-ND	32.97	194.81	561.94	490-1907-2-ND	1,000	539.46	GRM43DR72A155MA01L
			2.2µF	±10%	2.5	490-1908-1-ND	35.44	209.43	—	490-1908-2-ND	500	289.98	GRM43ER72A225KA01L
			2.2µF	±20%	2.5	490-1909-1-ND	35.44	209.43	—	490-1909-2-ND	500	289.98	GRM43ER72A225MA01L
		50	1.5µF	±10%	2.0	490-1910-1-ND	26.84	158.60	457.50	490-1910-2-ND	1,000	439.20	GRM43DR71H155KA01L
			1.5µF	±20%	2.0	490-1911-1-ND	26.84	158.60	457.50	490-1911-2-ND	1,000	439.20	GRM43DR71H155MA01L
			2.2µF	±10%	2.5	490-1912-1-ND	28.59	168.94	—	490-1912-2-ND	500	233.91	GRM43ER71H225KA01L
			2.2µF	±20%	2.5	490-1913-1-ND	28.59	168.94	—	490-1913-2-ND	500	233.91	GRM43ER71H225MA01L
		25	4.7µF	±10%	2.5	490-1914-1-ND	27.57	162.89	—	490-1914-2-ND	500	225.54	GRM43ER71E475KA01L

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Murata Part No.
							10	100	500		Size	Pricing	
1812	X7R	25	4.7µF	±20%	2.5	490-1915-1-ND	27.57	162.89	—	490-1915-2-ND	500	225.54	GRM43ER71E475MA01L
		10	22µF	±10%	2.5	490-1916-1-ND	32.82	193.96	—	490-1916-2-ND	500	268.56	GRM43ER71A226KE01L
	X5R	16	22µF	±10%	2.5	490-1917-1-ND	32.82	193.96	—	490-1917-2-ND	500	268.56	GRM43ER61C226KE01L
		10	47µF	±10%	2.5	490-1918-1-ND	51.79	306.02	—	490-1918-2-ND	500	423.72	GRM43ER61A476KE19L
		6.3	33µF	±10%	2.0	490-1919-1-ND	47.11	278.40	803.06	490-1919-2-ND	1,000	770.94	GRM43DR60J336KE01L
			33µF	±20%	2.0	490-1920-1-ND	47.11	278.40	803.06	490-1920-2-ND	1,000	770.94	GRM43DR60J336ME01L
			47µF	±10%	2.5	490-1921-1-ND	51.79	306.02	—	490-1921-2-ND	500	423.72	GRM43ER60J476KE01L
			47µF	±20%	2.5	490-1922-1-ND	51.79	306.02	—	490-1922-2-ND	500	423.72	GRM43ER60J476ME01L
			100µF	±20%	2.8	490-1923-1-ND	85.04	502.52	—	490-1923-2-ND	500	695.79	GRM43SR60J107ME20L
	Y5V	100	.15µF	+80, -20%	1.8	490-1924-1-ND	13.10	77.42	223.31	490-1924-2-ND	1,000	214.38	GRM43RF52A154ZA01L
		50	1.5µF	+80, -20%	1.8	490-1925-1-ND	61.27	362.05	1044.38	490-1925-2-ND	1,000	1002.60	GRM43RF51H155ZD01L
2220	C0G (NP0)	50	16000pF	±5%	1.35	490-1926-1-ND	77.02	455.13	1312.88	490-1926-2-ND	1,000	1260.36	GRM55N5C1H163JD01L
			20000pF	±5%	1.8	490-1927-1-ND	95.99	567.19	1636.13	490-1927-2-ND	1,000	1570.68	GRM55R5C1H203JD01L
			24000pF	±5%	1.8	490-1928-1-ND	112.18	662.87	1912.13	490-1928-2-ND	1,000	1835.64	GRM55R5C1H243JD01L
			30000pF	±5%	1.8	490-1929-1-ND	123.99	732.68	2113.50	490-1929-2-ND	1,000	2028.96	GRM55R5C1H303JD01L
			36000pF	±5%	1.8	490-1930-1-ND	136.39	805.94	2324.81	490-1930-2-ND	1,000	2231.82	GRM55R5C1H363JD01L
			43000pF	±5%	1.8	490-1931-1-ND	140.38	829.53	2392.88	490-1931-2-ND	1,000	2297.16	GRM55R5C1H433JD01L
	X7R	1,000	0.1µF	±10%	2.0	490-3505-1-ND	51.11	301.99	871.13	490-3505-2-ND	1,000	836.00	GRM55DR73A104KW01L
		630	.15µF	±10%	2.0	490-3519-1-ND	32.71	193.31	557.63	490-3519-2-ND	1,000	535.00	GRM55DR72J154KW01L
			.22µF	±10%	2.0	490-3520-1-ND	35.12	207.55	598.69	490-3520-2-ND	1,000	575.00	GRM55DR72J224KW01L
		250	.33µF	±10%	2.0	490-3546-1-ND	33.26	196.56	567.00	490-3546-2-ND	1,000	544.00	GRM55DR72E334KW01L
			.47µF	±10%	2.0	490-3548-1-ND	32.92	194.55	561.19	490-3548-2-ND	1,000	554.00	GRM55DR72E474KW01L
			1.0µF	±10%	2.0	490-3550-1-ND	32.92	194.55	561.19	490-3550-2-ND	1,000	539.00	GRM55DR72E105KW01L
		100	1.0µF	±10%	2.0	490-1932-1-ND	42.15	249.08	718.50	490-1932-2-ND	1,000	689.76	GRM55DR72A105KA01L
			1.0µF	±20%	2.0	490-1933-1-ND	42.15	249.08	718.50	490-1933-2-ND	1,000	689.76	GRM55DR72A105MA01L
			4.7µF	±10%	2.5	490-1934-1-ND	74.54	440.44	—	490-1934-2-ND	500	609.84	GRM55ER72A475KA01L
		50	1.0µF	±10%	1.8	490-1936-1-ND	46.24	273.26	788.25	490-1936-2-ND	1,000	756.72	GRM55RR71H105KA01L
			1.0µF	±20%	1.8	490-1935-1-ND	46.24	273.26	788.25	490-1935-2-ND	1,000	756.72	GRM55RR71H105MA01L
			1.5µF	±10%	1.8	490-1938-1-ND	59.66	352.56	1017.00	490-1938-2-ND	1,000	976.32	GRM55RR71H155KA01L
			1.5µF	±20%	1.8	490-1937-1-ND	59.66	352.56	1017.00	490-1937-2-ND	1,000	976.32	GRM55RR71H155MA01L
			3.3µF	±10%	2.0	490-1939-1-ND	59.66	352.56	1017.00	490-1939-2-ND	1,000	976.32	GRM55DR71H335KA01L
			3.3µF	±20%	2.0	490-1940-1-ND	59.66	352.56	1017.00	490-1940-2-ND	1,000	976.32	GRM55DR71H335MA01L
			4.7µF	±10%	2.5	490-1941-1-ND	56.60	334.43	—	490-1941-2-ND	500	463.05	GRM55ER71H475KA01L
			4.7µF	±20%	2.5	490-1942-1-ND	57.76	341.32	—	490-1942-2-ND	500	472.59	GRM55ER71H475MA01L
		25	10µF	±10%	2.0	490-1943-1-ND	107.80	637.00	1837.50	490-1943-2-ND	1,000	1764.00	GRM55DR71E106KA01L
			10µF	±20%	2.0	490-1944-1-ND	107.80	637.00	1837.50	490-1944-2-ND	1,000	1764.00	GRM55DR71E106MA01L
			15µF	±10%	2.5	490-1945-1-ND	53.82	318.05	—	490-1945-2-ND	500	440.37	GRM55ER71E156KA01L
			15µF	±20%	2.5	490-1946-1-ND	53.82	318.05	—	490-1946-2-ND	500	440.37	GRM55ER71E156MA01L
	X5R	6.3	100µF	±10%	3.2	490-1947-1-ND	133.00	785.92	—	490-1947-2-ND	300	652.91	GRM55FR60J107KA01L
	Y5V	100	.47µF	+80, -20%	1.8	490-1948-1-ND	35.30	208.59	601.69	490-1948-2-ND	1,000	577.62	GRM55RF52A474ZA01L
			.68µF	+80, -20%	1.8	490-1949-1-ND	67.40	398.26	1148.81	490-1949-2-ND	1,000	1102.86	GRM55RF52A684ZD01L
		50	3.3µF	+80, -20%	1.8	490-1950-1-ND	102.70	606.84	1750.50	490-1950-2-ND	1,000	1680.48	GRM55RF51H335ZD01L
			4.7µF	+80, -20%	1.8	490-1951-1-ND	125.57	741.98	2140.31	490-1951-2-ND	1,000	2054.70	GRM55RF51H475ZD01L

Monolithic Ceramic Chip Capacitors Safety Standard Recognized Type GD (Y3)

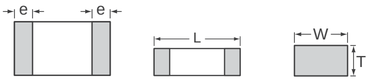

Size Code	Dimensions (mm)		
	L	W	e
1808	4.5	2.0	0.3
1812	4.5	3.2	0.3

Standard Recognition

	Standard No.	Class	Status of Recognition Type GD	Rated Voltage
SEMKO	EN132400	Y3	◎	AC250V (r.m.s.)

Applications

Size	Switching Power Supplies	Communication Network Devices such as a Modem
4.5 x 3.2mm and under	—	◎

Features:

- New monolithic structure for small, high capacitance capable of operating at high voltage levels. • Type GD can be used as a Y3-class capacitor • Available for equipment based on IEC/EN60950 and UL1950 • 125°C guaranteed • Only for reflow soldering • The low-profile type (thickness: 1.5mm max.) is available for use on thinner type equipment

Applications:

- For use on line filters and couplings for DAA modems without transformers • Line filters for information equipment

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Murata Part No.
							10	100	500		Size	Pricing	
1808	X7R	250	100pF	±10%	1.5	490-3483-1-ND	11.65	68.84	198.56	490-3483-2-ND	2,000	191.00/M	GA342QR7GD101KW01L
			150pF	±10%	1.5	490-3484-1-ND	11.65	68.84	198.56	490-3484-2-ND	2,000	191.00/M	GA342QR7GD151KW01L
			220pF	±10%	1.5	490-3485-1-ND	11.65	68.84	198.56	490-3485-2-ND	2,000	191.00/M	GA342QR7GD221KW01L
			330pF	±10%	1.5	490-3486-1-ND	11.65	68.84	198.56	490-3486-2-ND	2,000	191.00/M	GA342QR7GD331KW01L
			470pF	±10%	1.5	490-3487-1-ND	11.65	68.84	198.56	490-3487-2-ND	2,000	191.00/M	GA342QR7GD471KW01L
			680pF	±10%	1.5	490-3488-1-ND	12.20	72.09	207.94	490-3488-2-ND	2,000	200.00/M	GA342QR7GD681KW01L
			1000pF	±10%	1.5	490-3489-1-ND	12.20	72.09	207.94	490-3489-2-ND	2,000	200.00/M	GA342QR7GD102KW01L
			1500pF	±10%	1.5	490-3490-1-ND	12.20	72.09	207.94	490-3490-2-ND	2,000	200.00/M	GA342QR7GD152KW01L
1812	X7R	250	1800pF	±10%	1.5	490-3491-1-ND	15.83	93.54	269.81	490-3491-2-ND	1,000	259.00	GA343QR7GD182KW01L
			2200pF	±10%	1.5	490-3492-1-ND	15.83	93.54	269.81	490-3492-2-ND	1,000	259.00	GA343QR7GD222KW01L
			4700pF	±10%	2.0	490-3493-1-ND	15.83	93.54	269.81	490-3493-2-ND	1,000	259.00	GA343DR7GD472KW01L

Monolithic Ceramic Chip Capacitors Safety Standard Recognized Type GF (Y2)

Standard Recognition

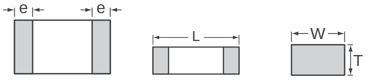

Size Code	Dimensions (mm)		
	L	W	e
1808	4.5	2.0	0.3
2211	5.7	2.8	0.3
2220	5.7	5.0	0.3

	Standard No.	Class	Status of Recognition Type GF		Rated Voltage
			Size: 4.5 x 2.0mm	Size: 5.7 x 2.8mm and over	
UL SEMKO	UL1414 EN132400	X1, Y2 Y2	— ◎	◎ ◎	AC250V (r.m.s.)

Applications

Size	Switching Power Supplies	Communication Network Devices such as a Modem
4.5 x 2.0mm	—	◎
5.7 x 2.8mm and over	◎	◎

Features:

- New monolithic structure for small, high capacitance capable of operating at high voltage levels. • Type GF can be used as a Y2-class capacitor • Available for equipment based on IEC/EN60950 and UL1950. The GA352/355 types are available for equipment based on IEC/EN60065, UL1492, and UL6500 • 125°C guaranteed • Only for reflow soldering • The low-profile type. Fit for use on thinner type equipment

Applications:

- For use on line filters and couplings for DAA modems without transformers • Use on line filters for information equipment
- Use as Y capacitor or X capacitor for various switching power supplies (GA352/355 types only)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Murata Part No.
							10	100	500		Size	Pricing	
1808	SL (JIS)	250	10pF	±5%	2.0	490-3459-1-ND	17.09	101.01	291.38	490-3459-2-ND	2,000	280.00/M	GA342D1XGF100JY02L
			12pF	±5%	2.0	490-3460-1-ND	17.09	101.01	291.38	490-3460-2-ND	2,000	280.00/M	GA342D1XGF120JY02L
			15pF	±5%	2.0	490-3461-1-ND	17.09	101.01	291.38	490-3461-2-ND	2,000	280.00/M	GA342D1XGF150JY02L
			18pF	±5%	2.0	490-3462-1-ND	17.09	101.01	291.38	490-3462-2-ND	2,000	280.00/M	GA342D1XGF180JY02L
			22pF	±5%	2.0	490-3463-1-ND	17.09	101.01	291.38	490-3463-2-ND	2,000	280.00/M	GA342D1XGF220JY02L

(Continued)

Monolithic Ceramic Chip Capacitors Type GF *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Murata Part No.
							10	100	500		Size	Pricing	
1808	SL (JIS)	250	27pF	±5%	2.0	490-3464-1-ND	17.09	101.01	291.38	490-3464-2-ND	2,000	280.00/M	GA342D1XGF270JY02L
			33pF	±5%	2.0	490-3465-1-ND	17.09	101.01	291.38	490-3465-2-ND	2,000	280.00/M	GA342D1XGF330JY02L
			39pF	±5%	2.0	490-3466-1-ND	17.09	101.01	291.38	490-3466-2-ND	2,000	280.00/M	GA342D1XGF390JY02L
			47pF	±5%	2.0	490-3467-1-ND	17.09	101.01	291.38	490-3467-2-ND	2,000	280.00/M	GA342D1XGF470JY02L
			56pF	±5%	2.0	490-3468-1-ND	17.09	101.01	291.38	490-3468-2-ND	2,000	280.00/M	GA342D1XGF560JY02L
			68pF	±5%	2.0	490-3469-1-ND	17.09	101.01	291.38	490-3469-2-ND	2,000	280.00/M	GA342D1XGF680JY02L
			82pF	±5%	2.0	490-3470-1-ND	17.09	101.01	291.38	490-3470-2-ND	2,000	280.00/M	GA342D1XGF820JY02L
	X7R	250	100pF	±10%	1.5	490-3471-1-ND	16.18	95.62	275.81	490-3471-2-ND	2,000	265.00/M	GA342QR7GF101KW01L
			150pF	±10%	1.5	490-3472-1-ND	16.18	95.62	275.81	490-3472-2-ND	2,000	265.00/M	GA342QR7GF151KW01L
			220pF	±10%	2.0	490-3473-1-ND	19.95	117.91	340.13	490-3473-2-ND	2,000	327.00/M	GA342DR7GF221KW02L
			330pF	±10%	2.0	490-3474-1-ND	19.95	117.91	340.13	490-3474-2-ND	2,000	327.00/M	GA342DR7GF331KW02L
2211	X7R	250	470pF	±10%	1.5	490-3475-1-ND	20.23	119.54	344.81	490-3475-2-ND	1,000	331.00	GA352QR7GF471KW01L
			680pF	±10%	1.5	490-3476-1-ND	20.23	119.54	344.81	490-3476-2-ND	1,000	331.00	GA352QR7GF681KW01L
			1000pF	±10%	1.5	490-3477-1-ND	20.23	119.54	344.81	490-3477-2-ND	1,000	331.00	GA352QR7GF102KW01L
			1500pF	±10%	1.5	490-3478-1-ND	20.23	119.54	344.81	490-3478-2-ND	1,000	331.00	GA352QR7GF152KW01L
2220	X7R	250	1800pF	±10%	1.5	490-3479-1-ND	25.87	152.88	441.00	490-3479-2-ND	1,000	423.00	GA355QR7GF182KW01L
			2200pF	±10%	1.5	490-3480-1-ND	25.87	152.88	441.00	490-3480-2-ND	1,000	423.00	GA355QR7GF222KW01L
			3300pF	±10%	1.5	490-3481-1-ND	25.87	152.88	441.00	490-3481-2-ND	1,000	423.00	GA355QR7GF332KW01L
			4700pF	±10%	2.0	490-3482-1-ND	35.59	210.28	606.56	490-3482-2-ND	1,000	582.00	GA355DR7GF472KW01L

Monolithic Ceramic Chip Capacitors High Frequency GQM Series

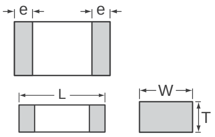

Size Code	Dimensions (mm)		
	L	W	e
0603	1.6	0.8	0.2 ~ 0.5
0805	2.0	1.25	0.2 ~ 0.7

Features:

- HiQ and low ESR at VHF, UHF, Microwave
- Feature improvement, low power consumption for mobile telecommunication. (Base station, terminal, etc.)

Applications:

High Frequency circuit (Mobile telecommunication, etc.)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel Pricing 4,000	Murata Part No.
							10	100	500			
0603	C0G	100	.5pF	±25pF	0.8	490-3551-1-ND	11.19	66.11	190.69	490-3551-2-ND	183.00/M	GQM1885C2AR50CB01D
			.75pF	±25pF	0.8	490-3552-1-ND	11.19	66.11	190.69	490-3552-2-ND	183.00/M	GQM1885C2AR75CB01D
			1.0pF	±25pF	0.8	490-3553-1-ND	11.19	66.11	190.69	490-3553-2-ND	183.00/M	GQM1885C2A1R0CB01D
			1.5pF	±25pF	0.8	490-3554-1-ND	11.19	66.11	190.69	490-3554-2-ND	183.00/M	GQM1885C2A1R5CB01D
			2.0pF	±25pF	0.8	490-3555-1-ND	11.19	66.11	190.69	490-3555-2-ND	183.00/M	GQM1885C2A2R0CB01D
			3.0pF	±25pF	0.8	490-3556-1-ND	11.19	66.11	190.69	490-3556-2-ND	183.00/M	GQM1885C2A3R0CB01D
			4.0pF	±25pF	0.8	490-3557-1-ND	11.19	66.11	190.69	490-3557-2-ND	183.00/M	GQM1885C2A4R0CB01D
			5.0pF	±25pF	0.8	490-3558-1-ND	11.19	66.11	190.69	490-3558-2-ND	183.00/M	GQM1885C2A5R0CB01D
			5.1pF	±25pF	0.8	490-3559-1-ND	11.06	65.33	188.44	490-3559-2-ND	181.00/M	GQM1885C2A5R1CB01D
			5.6pF	±25pF	0.8	490-3560-1-ND	11.91	70.40	203.06	490-3560-2-ND	195.00/M	GQM1885C2A5R6CB01D
			6.0pF	±25pF	0.8	490-3561-1-ND	11.91	70.40	203.06	490-3561-2-ND	195.00/M	GQM1885C2A6R0CB01D
			6.2pF	±25pF	0.8	490-3562-1-ND	11.91	70.40	203.06	490-3562-2-ND	195.00/M	GQM1885C2A6R2CB01D
			6.8pF	±25pF	0.8	490-3563-1-ND	11.91	70.40	203.06	490-3563-2-ND	195.00/M	GQM1885C2A6R8CB01D
		50	7.0pF	±25pF	0.8	490-3564-1-ND	13.09	77.35	223.13	490-3564-2-ND	214.00/M	GQM1885C1H7R0CB01D
			7.5pF	±25pF	0.8	490-3565-1-ND	13.09	77.35	223.13	490-3565-2-ND	214.00/M	GQM1885C1H7R5CB01D
			8.0pF	±25pF	0.8	490-3566-1-ND	13.09	77.35	223.13	490-3566-2-ND	214.00/M	GQM1885C1H8R0CB01D
			8.2pF	±25pF	0.8	490-3567-1-ND	13.09	77.35	223.13	490-3567-2-ND	214.00/M	GQM1885C1H8R2CB01D
			9.0pF	±25pF	0.8	490-3568-1-ND	13.09	77.35	223.13	490-3568-2-ND	214.00/M	GQM1885C1H9R0CB01D
			9.1pF	±25pF	0.8	490-3569-1-ND	13.09	77.35	223.13	490-3569-2-ND	214.00/M	GQM1885C1H9R1CB01D
			10pF	±5%	0.8	490-3570-1-ND	12.13	71.70	206.81	490-3570-2-ND	199.00/M	GQM1885C1H100JB01D
			12pF	±5%	0.8	490-3571-1-ND	15.83	93.54	269.81	490-3571-2-ND	259.00/M	GQM1885C1H120JB01D
			15pF	±5%	0.8	490-3572-1-ND	15.83	93.54	269.81	490-3572-2-ND	259.00/M	GQM1885C1H150JB01D
			18pF	±5%	0.8	490-3573-1-ND	15.83	93.54	269.81	490-3573-2-ND	259.00/M	GQM1885C1H180JB01D
			20pF	±5%	0.8	490-3574-1-ND	15.96	94.32	272.06	490-3574-2-ND	261.00/M	GQM1885C1H200JB01D
			22pF	±5%	0.8	490-3575-1-ND	15.83	93.54	269.81	490-3575-2-ND	259.00/M	GQM1885C1H220JB01D
			27pF	±5%	0.8	490-3576-1-ND	16.97	100.30	289.31	490-3576-2-ND	278.00/M	GQM1885C1H270JB01D
			33pF	±5%	0.8	490-3577-1-ND	16.97	100.30	289.31	490-3577-2-ND	278.00/M	GQM1885C1H330JB01D
			39pF	±5%	0.8	490-3578-1-ND	16.97	100.30	289.31	490-3578-2-ND	278.00/M	GQM1885C1H390JB01D
			47pF	±5%	0.8	490-3579-1-ND	16.97	100.30	289.31	490-3579-2-ND	278.00/M	GQM1885C1H470JB01D
			56pF	±5%	0.8	490-3580-1-ND	16.97	100.30	289.31	490-3580-2-ND	278.00/M	GQM1885C1H560JB01D
			68pF	±5%	0.8	490-3581-1-ND	16.97	100.30	289.31	490-3581-2-ND	278.00/M	GQM1885C1H680JB01D
			82pF	±5%	0.8	490-3582-1-ND	16.97	100.30	289.31	490-3582-2-ND	278.00/M	GQM1885C1H820JB01D
			100pF	±5%	0.8	490-3583-1-ND	16.97	100.30	289.31	490-3583-2-ND	278.00/M	GQM1885C1H101JB01D
0805	C0G	100	.5pF	±25pF	0.85	490-3584-1-ND	14.41	85.15	245.63	490-3584-2-ND	236.00/M	GQM2195C2AR50CB01D
			.75pF	±25pF	0.85	490-3585-1-ND	14.41	85.15	245.63	490-3585-2-ND	236.00/M	GQM2195C2AR75CB01D
			1.0pF	±25pF	0.85	490-3586-1-ND	14.27	84.31	243.19	490-3586-2-ND	233.00/M	GQM2195C2A1R0CB01D
			1.5pF	±25pF	0.85	490-3587-1-ND	14.27	84.31	243.19	490-3587-2-ND	233.00/M	GQM2195C2A1R5CB01D
			2.0pF	±25pF	0.85	490-3588-1-ND	14.41	85.15	245.63	490-3588-2-ND	236.00/M	GQM2195C2A2R0CB01D
			3.0pF	±25pF	0.85	490-3589-1-ND	14.41	85.15	245.63	490-3589-2-ND	236.00/M	GQM2195C2A3R0CB01D
			4.0pF	±25pF	0.85	490-3590-1-ND	14.41	85.15	245.63	490-3590-2-ND	236.00/M	GQM2195C2A4R0CB01D
			5.0pF	±25pF	0.85	490-3591-1-ND	14.41	85.15	245.63	490-3591-2-ND	236.00/M	GQM2195C2A5R0CB01D
			5.1pF	±25pF	0.85	490-3592-1-ND	15.46	91.33	263.44	490-3592-2-ND	253.00/M	GQM2195C2A5R1CB01D
			5.6pF	±25pF	0.85	490-3593-1-ND	15.46	91.33	263.44	490-3593-2-ND	253.00/M	GQM2195C2A5R6CB01D
			6.0pF	±25pF	0.85	490-3594-1-ND	15.46	91.33	263.44	490-3594-2-ND	253.00/M	GQM2195C2A6R0CB01D
			6.2pF	±25pF	0.85	490-3595-1-ND	15.46	91.33	263.44	490-3595-2-ND	253.00/M	GQM2195C2A6R2CB01D
			6.8pF	±25pF	0.85	490-3596-1-ND	15.46	91.33	263.44	490-3596-2-ND	253.00/M	GQM2195C2A6R8CB01D
			7.0pF	±25pF	0.85	490-3597-1-ND	16.97	100.30	289.31	490-3597-2-ND	278.00/M	GQM2195C2A7R0CB01D
			7.5pF	±25pF	0.85	490-3598-1-ND	16.97	100.30	289.31	490-3598-2-ND	278.00/M	GQM2195C2A7R5CB01D
			8.0pF	±25pF	0.85	490-3599-1-ND	16.97	100.30	289.31	490-3599-2-ND	278.00/M	GQM2195C2A8R0CB01D
			8.2pF	±25pF	0.85	490-3600-1-ND	16.97	100.30	289.31	490-3600-2-ND	278.00/M	GQM2195C2A8R2CB01D
			9.0pF	±25pF	0.85	490-3601-1-ND	16.97	100.30	289.31	490-3601-2-ND	278.00/M	GQM2195C2A9R0CB01D
			9.1pF	±25pF	0.85	490-3602-1-ND	16.97	100.30	289.31	490-3602-2-ND	278.00/M	GQM2195C2A9R1CB01D
			10pF	±5%	0.85	490-3603-1-ND	15.96	94.32	272.06	490-3603-2-ND	261.00/M	GQM2195C2A100JB01D
			12pF	±5%	0.85	490-3604-1-ND	20.50	121.16	349.50	490-3604-2-ND	336.00/M	GQM2195C2A120JB01D
			15pF	±5%	0.85	490-3605-1-ND	20.65	122.01	351.94	490-3605-2-ND	338.00/M	GQM2195C2A150JB01D
			18pF	±5%	0.85	490-3606-1-ND	20.65	122.01	351.94	490-3606-2-ND	338.00/M	GQM2195C2A180JB01D
		50	20pF	±5%	0.85	490-3607-1-ND	24.19	142.94	412.31	490-3607-2-ND	261.00/M	GQM2195C1H200JB01D
			22pF	±5%	0.85	490-3608-1-ND	15.96	94.32	272.06	490-3608-2-ND	261.00/M	GQM2195C1H220JB01D
			27pF	±5%	0.85	490-3609-1-ND	15.96	94.32	272.06	490-3609-2-ND	261.00/M	GQM2195C1H270JB01D
			33pF	±5%	0.85	490-3610-1-ND	15.83	93.54	269.81	490-3610-2-ND	259.00/M	GQM2195C1H330JB01D
			39pF	±5%	0.85	490-3611-1-ND	31.00	183.17	528.38	490-3611-2-ND	507.00/M	GQM2195C1H390JB01D
			47pF	±5%	0.85	490-3612-1-ND	30.71	181.48	523.50	490-3612-2-ND	503.00/M	GQM2195C1H470JB01D
			56pF	±5%	0.85	490-3613-1-ND	33.13	195.78	564.75	490-3613-2-ND	542.00/M	GQM2195C1H560JB01D
			68pF	±5%	0.85	490-3614-1-ND	33.13	195.78	564.75	490-3614-2-ND	542.00/M	GQM2195C1H680JB01D
			82pF	±5%	0.85	490-3615-1-ND	33.13	195.78	564.75	490-3615-2-ND	542.00/M	GQM2195C1H820JB01D
			100pF	±5%	0.85	490-3616-1-ND	26.13	154.38	445.31	490-3616-2-ND	428.00/M	GQM2195C1H101JB01D

TAIYO YUDEN Multilayer Ceramic Chip Capacitors

Features: The use of Nickel (Ni) as material for both the internal and external electrodes improves the solderability and heat resistance characteristics. This almost completely eliminates migration and raises the level of reliability significantly. Low equivalent series resistance (ESR) provides excellent noise absorption characteristics. Compared to tantalum or aluminum electrolytic capacitors, these ceramic capacitors offer a number of excellent features, including: • Higher permissible ripple current values • Smaller case sizes relative to rated voltage • Improved reliability due to higher insulation resistance and breakdown voltage

Operating Temperature Range: • C0G: -55° ~ 125°C • X7R: -55° ~ 125°C • X5R: -55° ~ 85°C • X5S: -55° ~ 85°C • Y5V: -30° ~ 85°C

Size Code	Dimensions (mm)			Size Code	Dimensions (mm)		
	L	W	e		L	W	e
0402	1.00	0.50	0.25	**0805**	2.00	1.25	0.50
0508	1.25	2.00	0.30	**1206**	3.20	1.60	0.50
0603	1.60	0.80	0.35	**1210**	3.20	2.50	0.60
0612	1.60	3.20	0.30	**1812**	4.50	3.20	0.90

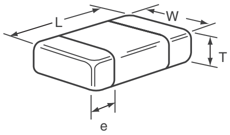

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
							10	100	500		Size	Pricing	
0201	C0G (NPO)	25	1.0pF	±0.25pF	0.3	587-1149-1-ND	.55	3.25	9.38	587-1149-2-ND	15,000	9.00/M	TMK063CG010CP-F
			1.2pF			587-1150-1-ND	.55	3.25	9.38	587-1150-2-ND	15,000	9.00/M	TMK063CG1R2CP-F
			1.5pF			587-1151-1-ND	.55	3.25	9.38	587-1151-2-ND	15,000	9.00/M	TMK063CG1R5CP-F
			1.8pF			587-1152-1-ND	.55	3.25	9.38	587-1152-2-ND	15,000	9.00/M	TMK063CG1R8CP-F
			2.2pF			587-1153-1-ND	.55	3.25	9.38	587-1153-2-ND	15,000	9.00/M	TMK063CG2R2CP-F
			2.7pF			587-1154-1-ND	.55	3.25	9.38	587-1154-2-ND	15,000	9.00/M	TMK063CG2R7CP-F
			3.3pF			587-1155-1-ND	.55	3.25	9.38	587-1155-2-ND	15,000	9.00/M	TMK063CG3R3CP-F
			3.9pF			587-1156-1-ND	.55	3.25	9.38	587-1156-2-ND	15,000	9.00/M	TMK063CG3R9CP-F
			4.7pF			587-1157-1-ND	.55	3.25	9.38	587-1157-2-ND	15,000	9.00/M	TMK063CG4R7CP-F
			5.6pF	±0.5pF	0.3	587-1158-1-ND	.55	3.25	9.38	587-1158-2-ND	15,000	9.00/M	TMK063CG5R6DP-F
			6.8pF			587-1159-1-ND	.55	3.25	9.38	587-1159-2-ND	15,000	9.00/M	TMK063CG6R8DP-F
			8.2pF			587-1160-1-ND	.55	3.25	9.38	587-1160-2-ND	15,000	9.00/M	TMK063CG8R2DP-F
			10pF			587-1161-1-ND	.55	3.25	9.38	587-1161-2-ND	15,000	9.00/M	TMK063CG100DP-F
			12pF	±5%	0.3	587-1162-1-ND	.55	3.25	9.38	587-1162-2-ND	15,000	9.00/M	TMK063CG120JP-F
			15pF			587-1163-1-ND	.55	3.25	9.38	587-1163-2-ND	15,000	9.00/M	TMK063CG150JP-F
			18pF			587-1164-1-ND	.55	3.25	9.38	587-1164-2-ND	15,000	9.00/M	TMK063CG180JP-F
			22pF			587-1165-1-ND	.55	3.25	9.38	587-1165-2-ND	15,000	9.00/M	TMK063CG220JP-F
			27pF			587-1166-1-ND	.55	3.25	9.38	587-1166-2-ND	15,000	9.00/M	TMK063CG270JP-F
			33pF			587-1167-1-ND	.55	3.25	9.38	587-1167-2-ND	15,000	9.00/M	TMK063CG330JP-F
			39pF			587-1168-1-ND	.55	3.25	9.38	587-1168-2-ND	15,000	9.00/M	TMK063CG390JP-F
			47pF			587-1169-1-ND	.55	3.25	9.38	587-1169-2-ND	15,000	9.00/M	TMK063CG470JP-F
			56pF			587-1170-1-ND	.55	3.25	9.38	587-1170-2-ND	15,000	9.00/M	TMK063CG560JP-F
			68pF			587-1171-1-ND	.55	3.25	9.38	587-1171-2-ND	15,000	9.00/M	TMK063CG680JP-F
			82pF			587-1172-1-ND	.55	3.25	9.38	587-1172-2-ND	15,000	9.00/M	TMK063CG820JP-F
			100pF			587-1173-1-ND	.55	3.25	9.38	587-1173-2-ND	15,000	9.00/M	TMK063CG101JP-F
	X5R	25	100pF	±10%	0.3	587-1174-1-ND	.55	3.25	9.38	587-1174-2-ND	15,000	9.00/M	TMK063BJ101KP-F
			220pF			587-1175-1-ND	.55	3.25	9.38	587-1175-2-ND	15,000	9.00/M	TMK063BJ221KP-F
			470pF			587-1176-1-ND	.55	3.25	9.38	587-1176-2-ND	15,000	9.00/M	TMK063BJ471KP-F
			1000pF			587-1177-1-ND	.55	3.25	9.38	587-1177-2-ND	15,000	9.00/M	TMK063BJ102KP-F
		16	2200pF	±10%	0.3	587-1178-1-ND	.66	3.90	11.25	587-1178-2-ND	15,000	11.00/M	EMK063BJ222KP-F
			4700pF			587-1179-1-ND	.66	3.90	11.25	587-1179-2-ND	15,000	11.00/M	EMK063BJ472KP-F
			10000pF			587-1180-1-ND	.88	5.20	15.00	587-1180-2-ND	15,000	14.00/M	EMK063BJ103KP-F
		10	22000pF	±10%	0.3	587-1181-1-ND	.99	5.85	16.88	587-1181-2-ND	15,000	16.00/M	LMK063BJ223KP-F
		6.3	47000pF	±10%	0.3	587-1182-1-ND	.99	5.85	16.88	587-1182-2-ND	15,000	16.00/M	JMK063BJ473KP-F
			.10µF			587-1183-1-ND	1.10	6.50	18.75	587-1183-2-ND	15,000	18.00/M	JMK063BJ104KP-F
	Y5V	6.3	22000pF	±80% / -20%	0.3	587-1184-1-ND	.66	3.90	11.25	587-1184-2-ND	15,000	11.00/M	JMK063F223ZP-F
			47000pF			587-1185-1-ND	.66	3.90	11.25	587-1185-2-ND	15,000	11.00/M	JMK063F473ZP-F
0306	X5R	6.3	1.0µF	±10%	0.8	587-1186-1-ND	3.85	22.75	65.63	587-1186-2-ND	4,000	63.00/M	JWK107BJ105KA-T
0402	C0G (NPO)	50	1.0pF	±0.25%	0.5	587-1187-1-ND	.33	1.95	5.63	587-1187-2-ND	10,000	5.00/M	UMK105CG010CW-F
			1.2pF			587-1188-1-ND	.33	1.95	5.63	587-1188-2-ND	10,000	5.00/M	UMK105CG1R2CW-F
			1.5pF			587-1189-1-ND	.33	1.95	5.63	587-1189-2-ND	10,000	5.00/M	UMK105CG1R5CW-F
			1.8pF			587-1190-1-ND	.33	1.95	5.63	587-1190-2-ND	10,000	5.00/M	UMK105CG1R8CW-F
			2.2pF			587-1191-1-ND	.33	1.95	5.63	587-1191-2-ND	10,000	5.00/M	UMK105CG2R2CW-F
			2.7pF			587-1192-1-ND	.33	1.95	5.63	587-1192-2-ND	10,000	5.00/M	UMK105CG2R7CW-F
			3.3pF			587-1193-1-ND	.33	1.95	5.63	587-1193-2-ND	10,000	5.00/M	UMK105CG3R3CW-F
			3.9pF			587-1194-1-ND	.33	1.95	5.63	587-1194-2-ND	10,000	5.00/M	UMK105CG3R9CW-F
			4.7pF			587-1195-1-ND	.33	1.95	5.63	587-1195-2-ND	10,000	5.00/M	UMK105CG4R7CW-F
			5.6pF	±0.5pF	0.5	587-1196-1-ND	.33	1.95	5.63	587-1196-2-ND	10,000	5.00/M	UMK105CG5R6DW-F
			6.8pF			587-1197-1-ND	.33	1.95	5.63	587-1197-2-ND	10,000	5.00/M	UMK105CG6R8DW-F
			8.2pF			587-1198-1-ND	.33	1.95	5.63	587-1198-2-ND	10,000	5.00/M	UMK105CG8R2DW-F
			10pF			587-1199-1-ND	.33	1.95	5.63	587-1199-2-ND	10,000	5.00/M	UMK105CG100DW-F
			12pF	±5%	0.5	587-1200-1-ND	.33	1.95	5.63	587-1200-2-ND	10,000	5.00/M	UMK105CG120JW-F
			15pF			587-1201-1-ND	.33	1.95	5.63	587-1201-2-ND	10,000	5.00/M	UMK105CG150JW-F
			18pF			587-1202-1-ND	.33	1.95	5.63	587-1202-2-ND	10,000	5.00/M	UMK105CG180JW-F
			22pF	±5%	0.5	587-1203-1-ND	.33	1.95	5.63	587-1203-2-ND	10,000	5.00/M	UMK105CG220JV-F
			27pF			587-1204-1-ND	.33	1.95	5.63	587-1204-2-ND	10,000	5.00/M	UMK105CG270JV-F
			33pF			587-1205-1-ND	.33	1.95	5.63	587-1205-2-ND	10,000	5.00/M	UMK105CG330JV-F
			39pF			587-1206-1-ND	.33	1.95	5.63	587-1206-2-ND	10,000	5.00/M	UMK105CG390JV-F
			47pF			587-1207-1-ND	.33	1.95	5.63	587-1207-2-ND	10,000	5.00/M	UMK105CG470JV-F
			56pF			587-1208-1-ND	.33	1.95	5.63	587-1208-2-ND	10,000	5.00/M	UMK105CG560JV-F
			68pF			587-1209-1-ND	.33	1.95	5.63	587-1209-2-ND	10,000	5.00/M	UMK105CG680JV-F
			82pF			587-1210-1-ND	.33	1.95	5.63	587-1210-2-ND	10,000	5.00/M	UMK105CG820JV-F
			100pF			587-1211-1-ND	.40	2.34	6.75	587-1211-2-ND	10,000	6.00/M	UMK105CG101JV-F
			120pF			587-1212-1-ND	.40	2.34	6.75	587-1212-2-ND	10,000	6.00/M	UMK105CG121JV-F
			150pF			587-1213-1-ND	.40	2.34	6.75	587-1213-2-ND	10,000	6.00/M	UMK105CG151JV-F
			180pF			587-1214-1-ND	.40	2.34	6.75	587-1214-2-ND	10,000	6.00/M	UMK105CG181JV-F
			220pF			587-1215-1-ND	.40	2.34	6.75	587-1215-2-ND	10,000	6.00/M	UMK105CG221JV-F
			270pF			587-1216-1-ND	.40	2.34	6.75	587-1216-2-ND	10,000	6.00/M	UMK105CG271JV-F
			330pF			587-1217-1-ND	.40	2.34	6.75	587-1217-2-ND	10,000	6.00/M	UMK105CG331JV-F
	X7R	50	220pF	±10%	0.5	587-1218-1-ND	.32	1.89	5.44	587-1218-2-ND	10,000	5.00/M	UMK105BJ221KV-F
			470pF			587-1219-1-ND	.26	1.56	4.50	587-1219-2-ND	10,000	4.00/M	UMK105BJ471KV-F
			1000pF			587-1220-1-ND	.25	1.50	4.31	587-1220-2-ND	10,000	4.00/M	UMK105BJ102KV-F
			2200pF			587-1221-1-ND	.26	1.56	4.50	587-1221-2-ND	10,000	4.00/M	UMK105BJ222KV-F
		25	4700pF	±10%	0.5	587-1222-1-ND	.28	1.63	4.69	587-1222-2-ND	10,000	5.00/M	TMK105BJ472KV-F
			10000pF			587-1223-1-ND	.25	1.50	4.31	587-1223-2-ND	10,000	4.00/M	TMK105BJ103KV-F
		16	22000pF	±10%	0.5	587-1224-1-ND	.24	1.43	4.13	587-1224-2-ND	10,000	4.00/M	EMK105BJ223KV-F
			47000pF			587-1225-1-ND	.24	1.43	4.13	587-1225-2-ND	10,000	4.00/M	EMK105BJ473KV-F
			.10µF			587-1451-1-ND ***NEW!***	.39	2.28	6.56	587-1451-2-ND ***NEW!***	10,000	6.00/M	EMK105BJ104KV-FR
	X5R	25	.10µF	±10%	0.5	587-1456-1-ND ***NEW!***	.43	2.54	7.31	587-1456-2-ND ***NEW!***	10,000	7.00/M	TMK105BJ104KV-F
		16	.10µF	±10%	0.5	587-1226-1-ND	.40	2.34	6.75	587-1226-2-ND	10,000	6.00/M	EMK105BJ104KV-F
			.22µF	±10%	0.5	587-1452-1-ND ***NEW!***	.99	5.85	16.88	587-1452-2-ND ***NEW!***	10,000	16.00/M	EMK105BJ224KV-F
		10	.10µF	±10%	0.5	587-1227-1-ND	.33	1.95	5.63	587-1227-2-ND	10,000	5.00/M	LMK105BJ104KV-F
			.22µF			587-1228-1-ND	.79	4.68	13.50	587-1228-2-ND	10,000	13.00/M	LMK105BJ224KV-F
			.47µF			587-1455-1-ND ***NEW!***	1.05	6.18	17.81	587-1455-2-ND ***NEW!***	10,000	17.00/M	LMK105BJ474KV-F
			1.0µF			587-1454-1-ND ***NEW!***	2.15	12.68	36.56	587-1454-2-ND ***NEW!***	10,000	35.00/M	LMK105BJ105KV-F
		6.3	.22µF	±10%	0.5	587-1229-1-ND	.77	4.55	13.13	587-1229-2-ND	10,000	13.00/M	JMK105BJ224KV-F
			.47µF	±10%	0.5	587-1230-1-ND	1.10	6.50	18.75	587-1230-2-ND	10,000	18.00/M	JMK105BJ474KV-F
			1.0µF	±10%	0.5	587-1231-1-ND	1.21	7.15	20.63	587-1231-2-ND	10,000	20.00/M	JMK105BJ105KV-F
			2.2µF	±20%	0.5	587-1453-1-ND ***NEW!***	5.50	32.50	93.75	587-1453-2-ND ***NEW!***	10,000	90.00/M	JMK105BJ225MV-F
		4.0	2.2µF	±20%	0.5	587-1232-1-ND	5.50	32.50	93.75	587-1232-2-ND	10,000	90.00/M	AMK105BJ225MV-F
	Y5V	50	10000pF	±80% / -20%	0.5	587-1233-1-ND	.33	1.95	5.63	587-1233-2-ND	10,000	5.00/M	UMK105F103ZV-F
		25	22000pF	±80% / -20%	0.5	587-1234-1-ND	.32	1.89	5.44	587-1234-2-ND	10,000	5.00/M	TMK105F223ZV-F
		16	.10µF	±80% / -20%	0.5	587-1235-1-ND	.26	1.56	4.50	587-1235-2-ND	10,000	4.00/M	EMK105F104ZV-F
		6.3	1.0µF	±80% / -20%	0.5	587-1236-1-ND	.77	4.55	13.13	587-1236-2-ND	10,000	13.00/M	JMK105F105ZV-F
0508	X5R	6.3	4.7µF	±10%	0.85	587-1237-1-ND	5.50	32.50	93.75	587-1237-2-ND	4,000	90.00/M	JWK212BJ475KD-T

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Taiyo Yuden Part No.
0603	X7R	100	1000pF	±10%	0.8	587-1445-1-ND **NEW!**	3.73	22.04	63.56	587-1445-2-ND **NEW!**	4,000	61.00/M	HMK107JB102KA-T
			2200pF	±10%	0.8	587-1447-1-ND **NEW!**	3.73	22.04	63.56	587-1447-2-ND **NEW!**	4,000	61.00/M	HMK107BJ222KA-T
			4700pF	±10%	0.8	587-1449-1-ND **NEW!**	3.73	22.04	63.56	587-1449-2-ND **NEW!**	4,000	61.00/M	HMK107BJ472KA-T
			10000pF	±10%	0.8	587-1446-1-ND **NEW!**	3.87	22.88	66.00	587-1446-2-ND **NEW!**	4,000	63.00/M	HMK107BJ103KA-T
			22000pF	±10%	0.8	587-1448-1-ND **NEW!**	3.87	22.88	66.00	587-1448-2-ND **NEW!**	4,000	63.00/M	HMK107BJ223KA-T
		25	22000pF	±10%	0.8	587-1238-1-ND	.48	2.86	8.25	587-1238-2-ND	4,000	8.00/M	TMK107BJ223KA-T
		16	47000pF	±10%	0.8	587-1239-1-ND	.55	3.25	9.38	587-1239-2-ND	4,000	9.00/M	EMK107BJ473KA-T
			.10µF	±10%	0.8	587-1240-1-ND	.28	1.63	4.69	587-1240-2-ND	4,000	5.00/M	EMK107BJ104KA-T
			1.0µF	±10%	0.8	587-1241-1-ND	.88	5.20	15.00	587-1241-2-ND	4,000	14.00/M	EMK107BJ105KA-TR
		10	1.0µF	±10%	0.8	587-1242-1-ND	.99	5.85	16.88	587-1242-2-ND	4,000	16.00/M	LMK107BJ105KA-T
	X5R	50	.10µF	±10%	0.8	587-1243-1-ND	.66	3.90	11.25	587-1243-2-ND	4,000	11.00/M	UMK107BJ104KA-T
		35	47000pF	±10%	0.8	587-1244-1-ND	4.95	29.25	84.38	587-1244-2-ND	4,000	81.00/M	GMK107BJ473KA-T
			1.0µF			587-1437-1-ND **NEW!**	2.00	11.83	34.13	587-1437-2-ND **NEW!**	4,000	33.00/M	GMK107BJ105KA-T
		25	.10µF	±10%	0.8	587-1245-1-ND	.33	1.95	5.63	587-1245-2-ND	4,000	5.00/M	TMK107BJ104KA-T
			.22µF			587-1246-1-ND	.83	4.88	14.06	587-1246-2-ND	4,000	14.00/M	TMK107BJ224KA-T
			.47µF			587-1247-1-ND	1.21	7.15	20.63	587-1247-2-ND	4,000	20.00/M	TMK107BJ474KA-T
			1.0µF			587-1248-1-ND	1.54	9.10	26.25	587-1248-2-ND	4,000	25.00/M	TMK107BJ105KA-T
		16	.22µF	±10%	0.8	587-1249-1-ND	.66	3.90	11.25	587-1249-2-ND	4,000	11.00/M	EMK107BJ224KA-T
			.47µF			587-1250-1-ND	.77	4.55	13.13	587-1250-2-ND	4,000	13.00/M	EMK107BJ474KA-T
			1.0µF			587-1251-1-ND	.88	5.20	15.00	587-1251-2-ND	4,000	14.00/M	EMK107BJ105KA-T
			2.2µF			587-1430-1-ND **NEW!**	2.53	14.95	43.13	587-1430-2-ND **NEW!**	4,000	41.00/M	EMK107BJ225KA-T
		10	.47µF	±10%	0.8	587-1252-1-ND	.77	4.55	13.13	587-1252-2-ND	4,000	13.00/M	LMK107BJ474KA-T
			4.7µF			587-1441-1-ND **NEW!**	3.96	23.40	67.50	587-1441-2-ND **NEW!**	4,000	65.00/M	LMK107BJ475KA-T
			2.2µF			587-1253-1-ND	1.98	11.70	33.75	587-1253-2-ND	4,000	32.00/M	LMK107BJ225KA-T
		6.3	2.2µF	±10%	0.8	587-1254-1-ND	1.65	9.75	28.13	587-1254-2-ND	4,000	27.00/M	JMK107BJ225KA-T
			4.7µF	±20%	0.8	587-1255-1-ND	2.42	14.30	41.25	587-1255-2-ND	4,000	40.00/M	JMK107BJ475MA-T
			10µF	±20%	0.8	587-1256-1-ND	13.20	78.00	225.00	587-1256-2-ND	4,000	216.00/M	JMK107BJ106MA-T
	X5S	50	1.0µF	±10%	0.8	587-1257-1-ND	1.54	9.10	26.25	587-1257-2-ND	4,000	25.00/M	UMK107C105KA-T
	Y5V	50	.10µF	±80% / -20%	0.8	587-1258-1-ND	.50	2.93	8.44	587-1258-2-ND	4,000	8.00/M	UMK107F104ZA-T
		25	.47µF	±80% / -20%	0.8	587-1259-1-ND	.46	2.73	7.88	587-1259-2-ND	4,000	8.00/M	TMK107F474ZA-T
		16	.22µF	±80% / -20%	0.8	587-1260-1-ND	.44	2.60	7.50	587-1260-2-ND	4,000	7.00/M	EMK107F224ZA-T
			.47µF			587-1261-1-ND	.50	2.93	8.44	587-1261-2-ND	4,000	8.00/M	EMK107F474ZA-T
			1.0µF			587-1262-1-ND	.44	2.60	7.50	587-1262-2-ND	4,000	7.00/M	EMK107F105ZA-T
			2.2µF			587-1263-1-ND	.99	5.85	16.88	587-1263-2-ND	4,000	16.00/M	EMK107F225ZA-T
		10	1.0µF	±80% / -20%	0.8	587-1264-1-ND	.66	3.90	11.25	587-1264-2-ND	4,000	11.00/M	LMK107F105ZA-T
			2.2µF			587-1265-1-ND	.99	5.85	16.88	587-1265-2-ND	4,000	16.00/M	LMK107F225ZA-T
0612	X7R	10	2.2µF	±10%	0.85	587-1266-1-ND	6.38	37.70	108.75	587-1266-2-ND	4,000	104.00/M	LWK316BJ225KD-T
	X5R	6.3	10µF	±10%	0.85	587-1267-1-ND	11.00	65.00	187.50	587-1267-2-ND	4,000	180.00/M	JWK316BJ106KD-T
0805	X7R	630	1000pF	±10%	0.85	587-1268-1-ND	4.07	24.05	69.38	587-1268-2-ND	4,000	67.00/M	QMK212BJ102KD-T
			2200pF		0.85	587-1269-1-ND	4.07	24.05	69.38	587-1269-2-ND	4,000	67.00/M	QMK212BJ222KD-T
			4700pF		1.25	587-1270-1-ND	4.07	24.05	69.38	587-1270-2-ND	3,000	67.00/M	QMK212BJ472KG-T
		250	10000pF	±10%	1.25	587-1271-1-ND	4.07	24.05	69.38	587-1271-2-ND	3,000	67.00/M	QMK212BJ103KG-T
			22000pF			587-1272-1-ND	4.07	24.05	69.38	587-1272-2-ND	3,000	67.00/M	QMK212BJ223KG-T
		100	10000pF	±10%	1.25	587-1273-1-ND	3.96	23.40	67.50	587-1273-2-ND	3,000	65.00/M	HMK212BJ103KG-T
			22000pF			587-1274-1-ND	4.29	25.35	73.13	587-1274-2-ND	3,000	70.00/M	HMK212BJ223KG-T
			47000pF			587-1275-1-ND	4.29	25.35	73.13	587-1275-2-ND	3,000	70.00/M	HMK212BJ473KG-T
			.10µF			587-1276-1-ND	4.29	25.35	73.13	587-1276-2-ND	3,000	70.00/M	HMK212BJ104KG-T
		50	22000pF	±10%	0.85	587-1277-1-ND	.94	5.53	15.94	587-1277-2-ND	4,000	15.00/M	UMK212BJ223KD-T
			47000pF		1.25	587-1278-1-ND	.99	5.85	16.88	587-1278-2-ND	3,000	16.00/M	UMK212BJ473KG-T
			.10µF		1.25	587-1279-1-ND	.89	5.27	15.19	587-1279-2-ND	3,000	15.00/M	UMK212BJ104KG-T
		35	1.0µF	±10%	1.25	587-1438-1-ND **NEW!**	5.39	31.85	91.88	587-1438-2-ND **NEW!**	3,000	88.00/M	GMK212BJ105KG-T
		25	47000pF	±10%	0.85	587-1280-1-ND	.85	5.01	14.44	587-1280-2-ND	4,000	14.00/M	TMK212BJ473KD-T
			1.0µF		1.25	587-1281-1-ND	1.65	9.75	28.13	587-1281-2-ND	3,000	27.00/M	TMK212BJ105KG-TR
		16	.47µF	±10%	0.85	587-1282-1-ND	1.10	6.50	18.75	587-1282-2-ND	4,000	18.00/M	EMK212BJ474KD-T
			1.0µF		1.25	587-1283-1-ND	1.49	8.78	25.31	587-1283-2-ND	3,000	24.00/M	EMK212BJ105KG-T
			2.2µF	±10%	1.25	587-1431-1-ND **NEW!**	2.75	16.25	46.88	587-1431-2-ND **NEW!**	3,000	45.00/M	EMK212BJ225KG-TR
		10	1.0µF	±10%	0.85	587-1284-1-ND	1.21	7.15	20.63	587-1284-2-ND	4,000	20.00/M	LMK212BJ105KD-T
			1.0µF		1.25	587-1285-1-ND	1.32	7.80	22.50	587-1285-2-ND	3,000	22.00/M	LMK212BJ105KG-T
			2.2µF		1.25	587-1286-1-ND	1.71	10.08	29.06	587-1286-2-ND	3,000	28.00/M	LMK212BJ225KG-T
			4.7µF		1.25	587-1442-1-ND **NEW!**	2.81	16.58	47.81	587-1442-2-ND **NEW!**	3,000	46.00/M	LMK212BJ475KG-TR
	X5R	50	.22µF	±10%	1.25	587-1287-1-ND	1.10	6.50	18.75	587-1287-2-ND	3,000	18.00/M	UMK212BJ224KG-T
			.47µF			587-1288-1-ND	3.19	18.85	54.38	587-1288-2-ND	3,000	52.00/M	UMK212BJ474KG-T
		35	.47µF	±10%	1.25	587-1289-1-ND	1.65	9.75	28.13	587-1289-2-ND	3,000	27.00/M	GMK212BJ474KG-T
		25	.47µF	±10%	0.85	587-1290-1-ND	1.10	6.50	18.75	587-1290-2-ND	4,000	18.00/M	TMK212BJ474KD-T
			1.0µF		1.25	587-1291-1-ND	1.65	9.75	28.13	587-1291-2-ND	3,000	27.00/M	TMK212BJ105KG-T
			2.2µF		1.25	587-1292-1-ND	3.08	18.20	52.50	587-1292-2-ND	3,000	50.00/M	TMK212BJ225KG-T
		16	2.2µF	±10%	1.25	587-1293-1-ND	2.15	12.68	36.56	587-1293-2-ND	3,000	35.00/M	EMK212BJ225KG-T
			4.7µF			587-1294-1-ND	3.63	21.45	61.88	587-1294-2-ND	3,000	59.00/M	EMK212BJ475KG-T
			10µF			587-1295-1-ND	6.60	39.00	112.50	587-1295-2-ND	3,000	108.00/M	EMK212BJ106KG-T
		10	2.2µF	10%	0.85	587-1296-1-ND	1.76	10.40	30.00	587-1296-2-ND	4,000	29.00/M	LMK212BJ225KD-T
			4.7µF		0.85	587-1297-1-ND	2.75	16.25	46.88	587-1297-2-ND	4,000	45.00/M	LMK212BJ475KD-T
			4.7µF		1.25	587-1298-1-ND	2.42	14.30	41.25	587-1298-2-ND	3,000	40.00/M	LMK212BJ475KG-T
			10µF		0.85	587-1299-1-ND	3.63	21.45	61.88	587-1299-2-ND	4,000	59.00/M	LMK212BJ106KD-T
			10µF		1.25	587-1300-1-ND	3.85	22.75	65.63	587-1300-2-ND	3,000	63.00/M	LMK212BJ106KG-T
		6.3	4.7µF	±10%	0.85	587-1301-1-ND	3.08	18.20	52.50	587-1301-2-ND	4,000	50.00/M	JMK212BJ475KD-T
			4.7µF	±10%	1.25	587-1302-1-ND	2.20	13.00	37.50	587-1302-2-ND	3,000	36.00/M	JMK212BJ475KG-T
			10µF	±10%	1.25	587-1303-1-ND	6.05	35.75	103.13	587-1303-2-ND	3,000	99.00/M	JMK212BJ106KG-T
			10µF	±10%	0.85	587-1304-1-ND	3.30	19.50	56.25	587-1304-2-ND	4,000	54.00/M	JMK212BJ106KD-T
			22µF	±10%	1.25	587-1468-1-ND **NEW!**	14.85	87.75	253.13	587-1468-2-ND **NEW!**	3,000	243.00/M	JMK212BJ226KG-T
			22µF	±20%	1.25	587-1305-1-ND	13.20	78.00	225.00	587-1305-2-ND	3,000	216.00/M	JMK212BJ226MG-T
	Y5V	50	.22µF	±80% / -20%	0.85	587-1306-1-ND	.94	5.53	15.94	587-1306-2-ND	4,000	15.00/M	UMK212F224ZD-T
			.47µF		1.25	587-1307-1-ND	1.32	7.80	22.50	587-1307-2-ND	3,000	22.00/M	UMK212F474ZG-T
			1.0µF		1.25	587-1308-1-ND	.88	5.20	15.00	587-1308-2-ND	3,000	14.00/M	UMK212F105ZG-T
		16	2.2µF	±80% / -20%	1.25	587-1309-1-ND	1.32	7.80	22.50	587-1309-2-ND	3,000	22.00/M	EMK212F225ZG-T
		10	2.2µF	±80% / -20%	0.85	587-1310-1-ND	1.65	9.75	28.13	587-1310-2-ND	4,000	27.00/M	LMK212F225ZD-T
			4.7µF		1.25	587-1311-1-ND	1.43	8.45	24.38	587-1311-2-ND	3,000	23.00/M	LMK212F475ZG-T
			10µF		1.25	587-1312-1-ND	2.75	16.25	46.88	587-1312-2-ND	3,000	45.00/M	LMK212F106ZG-T
		6.3	4.7µF	±80% / -20%	0.85	587-1313-1-ND	1.65	9.75	28.13	587-1313-2-ND	4,000	27.00/M	JMK212F475ZD-T
			10µF		1.25	587-1314-1-ND	1.98	11.70	33.75	587-1314-2-ND	3,000	32.00/M	JMK212F106ZG-T
1206	X7R	630	1000pF	±10%	1.15	587-1315-1-ND	5.97	35.30	101.81	587-1315-2-ND	3,000	98.00/M	SMK316BJ102KF-T
			2200pF			587-1316-1-ND	5.97	35.30	101.81	587-1316-2-ND	3,000	98.00/M	SMK316BJ222KF-T
			4700pF			587-1317-1-ND	5.97	35.30	101.81	587-1317-2-ND	3,000	98.00/M	SMK316BJ472KF-T
			10000pF			587-1318-1-ND	5.97	35.30	101.81	587-1318-2-ND	3,000	98.00/M	SMK316BJ103KF-T
		250	47000pF	±10%	1.6	587-1319-1-ND	6.38	37.70	108.75	587-1319-2-ND	2,000	104.00/M	QMK316BJ473KL-T
			.10µF			587-1320-1-ND	6.71	39.65	114.38	587-1320-2-ND	2,000	110.00/M	QMK316BJ104KL-T
		100	47000pF	±10%	1.6	587-1321-1-ND	6.16	36.40	105.00	587-1321-2-ND	2,000	101.00/M	HMK316BJ473KL-T
			.10µF			587-1322-1-ND	6.27	37.05	106.88	587-1322-2-ND	2,000	103.00/M	HMK316BJ104KL-T
			.22µF			587-1323-1-ND	7.04	41.60	120.00	587-1323-2-ND	2,000	115.00/M	HMK316BJ224KL-T
			.47µF			587-1450-1-ND **NEW!**	8.25	48.75	140.63	587-1450-2-ND **NEW!**	2,000	135.00/M	HMK316BJ474KL-T
		50	.22µF	±10%	1.6	587-1324-1-ND	3.08	18.20	52.50	587-1324-2-ND	2,000	50.00/M	UMK316BJ224KL-T
			.47µF			587-1325-1-ND	3.08	18.20	52.50	587-1325-2-ND	2,000	50.00/M	UMK316BJ474KL-T
		35	1.0µF	±10%	1.6	587-1326-1-ND	3.52	20.80	60.00	587-1326-2-ND	2,000	58.00/M	GMK316BJ105KL-T

(Continued)

TAIYO YUDEN Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
							10	100	500		Size	Pricing	
1206	X7R	25	.22µF	±10%	1.15	587-1327-1-ND	2.20	13.00	37.50	587-1327-2-ND	3,000	36.00/M	TMK316BJ224KF-T
			1.0µF		1.6	587-1328-1-ND	3.44	20.35	58.69	587-1328-2-ND	2,000	56.00/M	TMK316BJ105KL-T
			2.2µF		1.6	587-1329-1-ND	3.60	21.26	61.31	587-1329-2-ND	2,000	59.00/M	TMK316BJ225KL-T
			4.7µF		1.6	587-1443-1-ND ***NEW!***	15.95	94.25	271.88	587-1443-2-ND ***NEW!***	2,000	261.00/M	TMK316BJ475KL-TR
		16	2.2µF	±10%	1.6	587-1330-1-ND	3.52	20.80	60.00	587-1330-2-ND	2,000	58.00/M	EMK316BJ225KL-T
			4.7µF			587-1331-1-ND	3.63	21.45	61.88	587-1331-2-ND	2,000	59.00/M	EMK316BJ475KL-TR
			10µF			587-1432-1-ND ***NEW!***	6.60	39.00	112.50	587-1432-2-ND ***NEW!***	2,000	108.00/M	EMK316BJ106KL-TR
		10	4.7µF	±10%	1.6	587-1332-1-ND	3.63	21.45	61.88	587-1332-2-ND	2,000	59.00/M	LMK316BJ475KL-T
			10µF			587-1333-1-ND	4.18	24.70	71.25	587-1333-2-ND	2,000	68.00/M	LMK316BJ106KL-TR
		6.3	22µF	±20%	1.6	587-1334-1-ND	14.30	84.50	243.75	587-1334-2-ND	2,000	234.00/M	JMK316BJ226ML-TR
	X5R	630	22000pF	±10%	1.6	587-1335-1-ND	6.71	39.65	114.38	587-1335-2-ND	2,000	110.00/M	SMK316BJ223KL-T
		25	1µF	±10%	0.85	587-1434-1-ND ***NEW!***	3.04	17.94	51.75	587-1434-2-ND ***NEW!***	4,000	50.00/M	TMK316BJ105KD-T
			4.7µF	±10%	1.6	587-1336-1-ND	5.61	33.15	95.63	587-1336-2-ND	2,000	92.00/M	TMK316BJ475KL-T
			10µF	±10%	1.6	587-1337-1-ND	6.05	35.75	103.13	587-1337-2-ND	2,000	99.00/M	TMK316BJ106KL-T
		16	4.7µF	±10%	1.6	587-1338-1-ND	3.63	21.45	61.88	587-1338-2-ND	2,000	59.00/M	EMK316BJ475KL-T
			10µF	±10%	1.6	587-1339-1-ND	4.85	28.67	82.69	587-1339-2-ND	2,000	79.00/M	EMK316BJ106KL-T
			22µF	±20%	1.6	587-1433-1-ND ***NEW!***	28.60	169.00	487.50	587-1433-2-ND ***NEW!***	2,000	468.00/M	EMK316BJ226ML-T
		10	4.7µF	±10%	0.85	587-1340-1-ND	3.41	20.15	58.13	587-1340-2-ND	4,000	56.00/M	LMK316BJ475KD-T
			10µF	±10%	0.85	587-1341-1-ND	4.40	26.00	75.00	587-1341-2-ND	4,000	72.00/M	LMK316BJ106KD-T
			10µF	±10%	1.6	587-1342-1-ND	3.85	22.75	65.63	587-1342-2-ND	2,000	63.00/M	LMK316BJ106KL-T
			22µF	±20%	1.6	587-1343-1-ND	13.20	78.00	225.00	587-1343-2-ND	2,000	216.00/M	LMK316BJ226ML-T
		6.3	10µF	±10%	1.15	587-1344-1-ND	4.00	23.66	68.25	587-1344-2-ND	3,000	66.00/M	JMK316BJ106KF-T
			10µF		0.85	587-1345-1-ND	4.51	26.65	76.88	587-1345-2-ND	4,000	74.00/M	JMK316BJ106KD-T
			10µF		1.6	587-1346-1-ND	4.40	26.00	75.00	587-1346-2-ND	2,000	72.00/M	JMK316BJ106KL-T
			22µF	±10%	1.6	587-1467-1-ND ***NEW!***	14.30	84.50	243.75	587-1467-2-ND ***NEW!***	2,000	234.00/M	JMK316BJ226KL-T
			22µF	±20%	1.6	587-1347-1-ND	14.30	84.50	243.75	587-1347-2-ND	2,000	234.00/M	JMK316BJ226ML-T
			47µF	±20%	1.6	587-1348-1-ND	27.50	162.50	468.75	587-1348-2-ND	2,000	450.00/M	JMK316BJ476ML-T
		4.0	100µF	±20%	1.6	587-1349-1-ND	60.50	357.50	—	587-1349-2-ND	2,000	990.00/M	AMK316BJ107ML-T
	X5S	25	10µF	±10%	1.6	587-1350-1-ND	7.59	44.85	129.38	587-1350-2-ND	2,000	124.00/M	TMK316C106KL-T
	Y5V	50	2.2µF	±80% / -20%	1.25	587-1351-1-ND	3.30	19.50	56.25	587-1351-2-ND	3,000	54.00/M	UMK316F225ZG-T
		35	10µF	±80% / -20%	1.6	587-1352-1-ND	3.52	20.80	60.00	587-1352-2-ND	2,000	58.00/M	GMK316F106ZL-T
		25	10µF	±80% / -20%	1.6	587-1353-1-ND	2.53	14.95	43.13	587-1353-2-ND	2,000	41.00/M	TMK316F106ZL-T
		16	10µF	±80% / -20%	1.6	587-1354-1-ND	2.53	14.95	43.13	587-1354-2-ND	2,000	41.00/M	EMK316F106ZL-T
		10	10µF	±80% / -20%	1.15	587-1355-1-ND	2.42	14.30	41.25	587-1355-2-ND	3,000	40.00/M	LMK316F106ZF-T
			22µF		1.6	587-1356-1-ND	7.15	42.25	121.88	587-1356-2-ND	2,000	117.00/M	LMK316F226ZL-T
		6.3	10µF	±80% / -20%	0.85	587-1357-1-ND	2.53	14.95	43.13	587-1357-2-ND	4,000	41.00/M	JMK316F106ZD-T
1210	X7R	630	22000pF	±10%	1.9	587-1358-1-ND	10.12	59.80	172.50	587-1358-2-ND	2,000	166.00/M	SMK325BJ223KN-T
		250	47000pF	±10%	1.9	587-1359-1-ND	9.90	58.50	168.75	587-1359-2-ND	2,000	162.00/M	QMK325BJ473KN-T
			.10µF		1.9	587-1360-1-ND	10.67	63.05	181.88	587-1360-2-ND	2,000	175.00/M	QMK325BJ104KN-T
			.22µF		1.9	587-1361-1-ND	11.33	66.95	193.13	587-1361-2-ND	2,000	185.00/M	QMK325BJ224KN-T
		100	.10µF	±10%	1.15	587-1362-1-ND	9.57	56.55	163.13	587-1362-2-ND	2,000	157.00/M	HMK325BJ104KF-T
			.22µF		1.9	587-1363-1-ND	12.10	71.50	206.25	587-1363-2-ND	2,000	198.00/M	HMK325BJ224KN-T
			.47µF		1.9	587-1364-1-ND	12.10	71.50	206.25	587-1364-2-ND	2,000	198.00/M	HMK325BJ474KN-T
			1.0µF		1.9	587-1365-1-ND	12.65	74.75	215.63	587-1365-2-ND	2,000	207.00/M	HMK325BJ105KN-T
		50	1.0µF	±10%	1.5	587-1366-1-ND	5.50	32.50	93.75	587-1366-2-ND	2,000	90.00/M	UMK325BJ105KH-T
		25	1.0µF	±10%	0.85	587-1367-1-ND	4.29	25.35	73.13	587-1367-2-ND	2,000	70.00/M	TMK325BJ105KD-T
			2.2µF	±10%	1.5	587-1368-1-ND	5.28	31.20	90.00	587-1368-2-ND	2,000	86.00/M	TMK325BJ225KH-T
			10µF	±20%	2.5	587-1369-1-ND	16.50	97.50	—	587-1369-2-ND	500	135.00	TMK325BJ106MM-TR
		16	22µF	±20%	2.5	587-1435-1-ND ***NEW!***	19.80	117.00	—	587-1435-2-ND ***NEW!***	500	162.00	EMK325BJ226MM-TR
		10	10µF	±10%	1.9	587-1370-1-ND	9.90	58.50	168.75	587-1370-2-ND	2,000	162.00/M	LMK325BJ106KN-T
			10µF	±20%	1.9	587-1469-1-ND ***NEW!***	9.90	58.50	168.75	587-1469-2-ND ***NEW!***	2,000	162.00/M	LMK325BJ106MN-T
	X5R	630	47000pF	±10%	1.9	587-1371-1-ND	10.12	59.80	172.50	587-1371-2-ND	2,000	166.00/M	SMK325BJ473KN-T
		35	2.2µF	±10%	1.9	587-1372-1-ND	6.05	35.75	103.13	587-1372-2-ND	2,000	99.00/M	GMK325BJ225KN-T
			10µF	±10%	1.9	587-1439-1-ND ***NEW!***	6.05	91.65	264.38	587-1439-2-ND ***NEW!***	2,000	254.00/M	GMK325BJ106KN-T
		25	4.7µF	±10%	1.9	587-1373-1-ND	6.60	39.00	112.50	587-1373-2-ND	2,000	108.00/M	TMK325BJ475KN-T
			10µF	±10%	0.85	587-1444-1-ND ***NEW!***	13.75	81.25	234.38	587-1444-2-ND ***NEW!***	2,000	225.00/M	TMK325BJ106KD-T
			10µF	±20%	2.5	587-1374-1-ND	16.50	97.50	—	587-1374-2-ND	500	135.00	TMK325BJ106MM-T
			10µF	±20%	1.9	587-1375-1-ND	9.90	58.50	168.75	587-1375-2-ND	2,000	162.00/M	TMK325BJ106MN-T
		16	10µF	±10%	1.9	587-1376-1-ND	9.90	58.50	168.75	587-1376-2-ND	2,000	162.00/M	EMK325BJ106KN-T
			10µF	±10%	0.85	587-1377-1-ND	8.80	52.00	150.00	587-1377-2-ND	2,000	144.00/M	EMK325BJ106KD-T
			10µF	±20%	1.9	587-1470-1-ND ***NEW!***	9.90	58.50	168.75	587-1470-2-ND ***NEW!***	2,000	162.00/M	EMK325BJ106MN-T
			22µF	±20%	2.5	587-1378-1-ND	19.80	117.00	—	587-1378-2-ND	500	162.00	EMK325BJ226MM-T
			47µF	±20%	2.5	587-1436-1-ND ***NEW!***	39.60	234.00	—	587-1436-2-ND ***NEW!***	500	324.00	EMK325BJ476MM-T
		10	4.7µF	±10%	0.85	587-1379-1-ND	6.60	39.00	112.50	587-1379-2-ND	2,000	108.00/M	LMK325BJ475KD-T
			10µF	±20%	0.85	587-1380-1-ND	7.70	45.50	131.25	587-1380-2-ND	2,000	126.00/M	LMK325BJ106MD-T
			22µF	±20%	2.5	587-1381-1-ND	17.60	104.00	—	587-1381-2-ND	500	144.00	LMK325BJ226MM-T
			22µF	±20%	2.0 Max.	587-1382-1-ND	19.80	117.00	337.50	587-1382-2-ND	2,000	324.00/M	LMK325BJ226MY-T
			47µF	±20%	2.5	587-1383-1-ND	34.10	201.50	—	587-1383-2-ND	500	279.00	LMK325BJ476MM-T
		6.3	22µF	±10%	2.5	587-1471-1-ND ***NEW!***	18.70	110.50	—	587-1471-2-ND ***NEW!***	500	153.00	JMK325BJ226KM-T
			22µF	±20%	2.5	587-1384-1-ND	18.70	110.50	—	587-1384-2-ND	500	153.00	JMK325BJ226MM-T
			22µF	±20%	2.0 Max.	587-1385-1-ND	13.20	78.00	225.00	587-1385-2-ND	2,000	216.00/M	JMK325BJ226MY-T
			47µF	±20%	1.9	587-1440-1-ND ***NEW!***	38.50	227.50	656.25	587-1440-2-ND ***NEW!***	2,000	630.00/M	JMK325BJ476MN-T
			47µF	±20%	2.5	587-1386-1-ND	38.50	227.50	—	587-1386-2-ND	500	315.00	JMK325BJ476MM-T
			100µF	±20%	2.5	587-1387-1-ND	66.00	390.00	—	587-1387-2-ND	500	540.00	JMK325BJ107MM-T
			100µF	±20%	2.0 Max.	587-1388-1-ND	55.00	325.00	—	587-1388-2-ND	2,000	900.00/M	JMK325BJ107MY-T
	Y5V	50	4.7µF	±80% / -20%	1.5	587-1389-1-ND	6.60	39.00	112.50	587-1389-2-ND	2,000	108.00/M	UMK325F475ZH-T
		35	10µF	±80% / -20%	1.5	587-1391-1-ND	7.15	42.25	121.88	587-1391-2-ND	2,000	117.00/M	GMK325F106ZH-T
		25	10µF	±80% / -20%	1.5	587-1393-1-ND	5.28	31.20	90.00	587-1393-2-ND	2,000	86.00/M	TMK325F106ZH-T
		16	4.7µF	±10%	1.9	587-1392-1-ND	6.82	40.30	116.25	587-1392-2-ND	2,000	112.00/M	EMK325BJ475KN-T
			22µF	±80% / -20%	1.9	587-1390-1-ND	6.60	39.00	112.50	587-1390-2-ND	2,000	108.00/M	EMK325F226ZN-T
		10	10µF	±80% / -20%	1.15	587-1394-1-ND	10.45	61.75	178.13	587-1394-2-ND	2,000	171.00/M	LMK325F106ZF-T
			22µF		1.9	587-1395-1-ND	8.25	48.75	140.63	587-1395-2-ND	2,000	135.00/M	LMK325F226ZN-T
		6.3	47µF	±80% / -20%	1.9	587-1396-1-ND	16.50	97.50	281.25	587-1396-2-ND	2,000	270.00/M	JMK325F476ZN-T
			100µF		2.5	587-1397-1-ND	39.60	234.00	—	587-1397-2-ND	500	324.00	JMK325F107ZM-T
1812	X7R	630	47000pF	±10%	2.5	587-1398-1-ND	20.30	119.93	—	587-1398-2-ND	500	166.00	SMK432BJ473KM-T
		250	.10µF	±10%	2.5	587-1399-1-ND	23.65	139.75	—	587-1399-2-ND	500	193.50	QMK432BJ104KM-T
			.22µF			587-1400-1-ND	23.65	139.75	—	587-1400-2-ND	500	193.50	QMK432BJ224KM-T
			.47µF			587-1401-1-ND	25.30	149.50	—	587-1401-2-ND	500	207.00	QMK432BJ474KM-T
		100	.47µF	±10%	2.5	587-1402-1-ND	21.34	126.10	—	587-1402-2-ND	500	174.50	HMK432BJ474KM-T
			1.0µF			587-1403-1-ND	22.55	133.25	—	587-1403-2-ND	500	166.00	HMK432BJ105KM-T
			2.2µF			587-1404-1-ND	23.98	141.70	—	587-1404-2-ND	500	196.00	HMK432BJ225KM-T
	X5R	630	.10µF	±10%	2.5	587-1405-1-ND	22.55	133.25	—	587-1405-2-ND	500	184.50	SMK432BJ104KM-T
		25	10µF	±20%	2.5	587-1406-1-ND	26.40	156.00	—	587-1406-2-ND	500	216.00	TMK432BJ106MM-T
		16	22µF	±20%	2.5	587-1407-1-ND	22.00	130.00	—	587-1407-2-ND	500	180.00	EMK432BJ226MM-T
			22µF	±10%	2.5	587-1472-1-ND ***NEW!***	22.00	130.00	—	587-1472-2-ND ***NEW!***	500	180.00	EMK432BJ226KM-T
		10	22µF	±20%	2.5	587-1408-1-ND	20.90	123.50	—	587-1408-2-ND	500	171.00	LMK432BJ226MM-T
		6.3	47µF	±20%	2.5	587-1409-1-ND	88.00	520.00	—	587-1409-2-ND	500	720.00	JMK432BJ476MM-T
			100µF		3.2	587-1410-1-ND	104.50	617.50	—	587-1410-2-ND	500	855.00	JMK432BJ107MU-T
	X5S	50	10µF	±20%	2.5	587-1411-1-ND	19.80	117.00	—	587-1411-2-ND	500	162.00	UMK432C106MM-T
		25	22µF	±20%	2.5	587-1412-1-ND	40.15	237.25	—	587-1412-2-ND	500	328.50	TMK432C226MM-T
			47µF			587-1413-1-ND	63.80	377.00	—	587-1413-2-ND	500	522.00	TMK432C476MM-T
	Y5V	10	47µF	±80% / -20%	2.5	587-1414-1-ND	33.00	195.00	—	587-1414-2-ND	500	270.00	LMK432F476ZM-T
		6.3	100µF	±80% / -20%	2.5	587-1415-1-ND	55.00	325.00	—	587-1415-2-ND	500	450.00	JMK432F107ZM-T

High Frequency Multilayer Ceramic Chip Capacitors

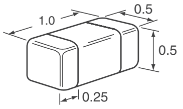

Features: Q-values in the high-frequency range (1 GHz+) are excellent compared to other types of multilayer capacitors. The 1005 (0402) case size is designed for high density mounting and weight reduction in various applications.

Operating Temperature Range: -55 ~ 125°C

Applications: Suitable for those high-frequency applications in which a capacitor with both a high Q-value and small size is required, such as portable communications and other wireless applications: VCO, TCXO, etc. Adjustment of characteristics in high-frequency circuits.

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing	Taiyo Yuden Part No.
						10	100	500		10,000	
0402	C0G	50	0.3pF	±0.1pF	587-1000-1-ND	1.65	9.75	28.13	587-1000-2-ND	27.00/M	UVK105CH0R3BW-F
			0.4pF		587-1001-1-ND	1.65	9.75	28.13	587-1001-2-ND	27.00/M	UVK105CH0R4BW-F
			0.5pF		587-1002-1-ND	1.65	9.75	28.13	587-1002-2-ND	27.00/M	UVK105CH0R5BW-F
			0.6pF		587-1003-1-ND	1.65	9.75	28.13	587-1003-2-ND	27.00/M	UVK105CH0R6BW-F
			0.7pF		587-1004-1-ND	1.65	9.75	28.13	587-1004-2-ND	27.00/M	UVK105CH0R7BW-F
			0.8pF	±0.1pF	587-1005-1-ND	1.65	9.75	28.13	587-1005-2-ND	27.00/M	UVK105CH0R8BW-F
			0.9pF		587-1006-1-ND	1.65	9.75	28.13	587-1006-2-ND	27.00/M	UVK105CH0R9BW-F
			1.0pF		587-1007-1-ND	1.65	9.75	28.13	587-1007-2-ND	27.00/M	UVK105CH010BW-F
			1.1pF		587-1008-1-ND	1.65	9.75	28.13	587-1008-2-ND	27.00/M	UVK105CH1R1BW-F
			1.2pF		587-1009-1-ND	1.65	9.75	28.13	587-1009-2-ND	27.00/M	UVK105CH1R2BW-F
			1.3pF	±0.1pF	587-1010-1-ND	1.65	9.75	28.13	587-1010-2-ND	27.00/M	UVK105CH1R3BW-F
			1.5pF		587-1011-1-ND	1.65	9.75	28.13	587-1011-2-ND	27.00/M	UVK105CH1R5BW-F
			1.6pF		587-1012-1-ND	1.65	9.75	28.13	587-1012-2-ND	27.00/M	UVK105CH1R6BW-F
			1.8pF		587-1013-1-ND	1.65	9.75	28.13	587-1013-2-ND	27.00/M	UVK105CH1R8BW-F
			2.0pF		587-1014-1-ND	1.65	9.75	28.13	587-1014-2-ND	27.00/M	UVK105CH020BW-F
			2.2pF	±5%	587-1015-1-ND	1.65	9.75	28.13	587-1015-2-ND	27.00/M	UVK105CH2R2JW-F
			2.4pF		587-1016-1-ND	1.65	9.75	28.13	587-1016-2-ND	27.00/M	UVK105CH2R4JW-F
			2.7pF		587-1017-1-ND	1.65	9.75	28.13	587-1017-2-ND	27.00/M	UVK105CH2R7JW-F
			3.0pF		587-1018-1-ND	1.65	9.75	28.13	587-1018-2-ND	27.00/M	UVK105CH030JW-F
			3.3pF		587-1019-1-ND	1.65	9.75	28.13	587-1019-2-ND	27.00/M	UVK105CH3R3JW-F
			3.6pF	±5%	587-1020-1-ND	1.65	9.75	28.13	587-1020-2-ND	27.00/M	UVK105CH3R6JW-F
			3.9pF		587-1021-1-ND	1.65	9.75	28.13	587-1021-2-ND	27.00/M	UVK105CH3R9JW-F
			4.3pF		587-1022-1-ND	1.65	9.75	28.13	587-1022-2-ND	27.00/M	UVK105CH4R3JW-F
			4.7pF		587-1023-1-ND	1.65	9.75	28.13	587-1023-2-ND	27.00/M	UVK105CH4R7JW-F
			5.1pF		587-1024-1-ND	1.65	9.75	28.13	587-1024-2-ND	27.00/M	UVK105CH5R1JW-F

Multilayer Ceramic Chip Capacitor Arrays

Features:
Internal electrode is nickel for increased cost performance and reliability

Applications:
Communication Equipment: Mobile Phones, PHS, Cordless Phones, etc.

Operating Temperature Range:
- C0G: -55° ~ 125°C
- X7R: -55° ~ 125°C
- X5R: -55° ~ 85°C

Type (Size Code)	Dimensions (mm)				
	L	W	E1	E2	P
□2K110 (0504)	1.37	1.00 ± 0.08	0.36	0.20	0.64
□2K212 (0805)	2.00	1.25 ± 0.10	0.50	0.25	1.00
□4K212 (0805)	2.00	1.25 ± 0.10	0.25	0.25	0.50
□4K316 (1206)	3.20	1.60 ± 0.15	0.40	0.30	0.80

2 Elements

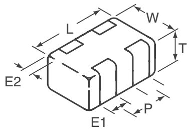

4 Elements

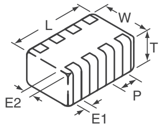

Size Code	Type	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
							10	100	500		Size	Pricing	
2 Elements													
0504	C0G	50	10pF	±1pF	0.6	587-1025-1-ND	1.65	9.75	28.13	587-1025-2-ND	4,000	27.00/M	U2K110CG100FB-T
			15pF	±10%	0.6	587-1026-1-ND	1.65	9.75	28.13	587-1026-2-ND	4,000	27.00/M	U2K110CG150KB-T
			22pF			587-1027-1-ND	1.65	9.75	28.13	587-1027-2-ND	4,000	27.00/M	U2K110CG220KB-T
			33pF			587-1028-1-ND	1.65	9.75	28.13	587-1028-2-ND	4,000	27.00/M	U2K110CG330KB-T
			47pF			587-1029-1-ND	1.65	9.75	28.13	587-1029-2-ND	4,000	27.00/M	U2K110CG470KB-T
			68pF			587-1030-1-ND	1.65	9.75	28.13	587-1030-2-ND	4,000	27.00/M	U2K110CG680KB-T
			100pF			587-1031-1-ND	1.65	9.75	28.13	587-1031-2-ND	4,000	27.00/M	U2K110CG101KB-T
	X7R	25	10000pF	±10%	0.6	587-1032-1-ND	1.76	10.40	30.00	587-1032-2-ND	4,000	29.00/M	T2K110BJ103KB-T
			22000pF			587-1033-1-ND	1.76	10.40	30.00	587-1033-2-ND	4,000	29.00/M	T2K110BJ223KB-T
			.10µF			587-1034-1-ND	1.76	10.40	30.00	587-1034-2-ND	4,000	29.00/M	T2K110BJ104KB-T
		16	47000pF	±10%	0.6	587-1035-1-ND	1.76	10.40	30.00	587-1035-2-ND	4,000	29.00/M	E2K110BJ473KB-T
			.10uF			587-1036-1-ND	1.76	10.40	30.00	587-1036-2-ND	4,000	29.00/M	E2K110BJ104KB-T
	X5R	10	.22µF	±10%	0.6	587-1037-1-ND	3.05	18.01	51.94	587-1037-2-ND	4,000	50.00/M	L2K110BJ224KB-T
			.47µF		0.8	587-1038-1-ND	3.52	20.80	60.00	587-1038-2-ND	4,000	58.00/M	L2K110BJ474KA-T
		6.3	1.0µF	±10%	0.8	587-1039-1-ND	4.29	25.35	73.13	587-1039-2-ND	4,000	70.00/M	J2K110BJ105KA-T
			2.2µF			587-1040-1-ND	7.26	42.90	123.75	587-1040-2-ND	4,000	119.00/M	J2K110BJ225KA-T
0805	X5R	25	1.0µF	±10%	0.85	587-1041-1-ND	6.60	39.00	112.50	587-1041-2-ND	4,000	108.00/M	T2K212BJ105KD-T
		16	1.0µF			587-1042-1-ND	6.05	35.75	103.13	587-1042-2-ND	4,000	99.00/M	E2K212BJ105KD-T
		10	1.0µF			587-1043-1-ND	4.18	24.70	71.25	587-1043-2-ND	4,000	68.00/M	L2K212BJ105KD-T
		6.3	2.2µF			587-1044-1-ND	6.16	36.40	105.00	587-1044-2-ND	4,000	101.00/M	J2K212BJ225KD-T
4 Elements													
0805	X5R	25	.10µF	±10%	0.85	587-1045-1-ND	4.51	26.65	76.88	587-1045-2-ND	4,000	74.00/M	T4K212BJ104KD-T
		16	.10µF			587-1046-1-ND	3.74	22.10	63.75	587-1046-2-ND	4,000	61.00/M	E4K212BJ104KD-T
		10	.22µF	±10%	0.85	587-1047-1-ND	5.17	30.55	88.13	587-1047-2-ND	4,000	85.00/M	L4K212BJ224KD-T
			.47µF			587-1048-1-ND	8.03	47.45	136.88	587-1048-2-ND	4,000	131.00/M	L4K212BJ474KD-T
		6.3	1.0µF	±10%	0.85	587-1049-1-ND	9.52	56.23	162.19	587-1049-2-ND	4,000	156.00/M	J4K212BJ105KD-T
1206	X5R	16	1.0µF	±10%	1.15	587-1050-1-ND	9.79	57.85	166.88	587-1050-2-ND	3,000	160.00/M	E4K316BJ105KF-T

Super Low Distortion Multilayer Ceramic Capacitors (CFCAP)

Features: Newly developed dielectric material and the use of nickel for internal electrodes provide excellent temperature characteristics with high capacitance, small case size, and low cost. Low distortion and low shock noise make these capacitors well-suited for use in analog or digital mobile devices. Excellent heat-resistance, high break-down voltage, and mechanical strength make these capacitors well suited for replacing film capacitors.

Applications: • Signal line for AV products • Analog signal coupling applications • PLL circuit of mobile phones • Good temperature characteristics for time-constant circuits, oscillation circuits and filters

Specifications: • Operating Temperature: -55°C ~ 125°C

Type (Size Code)	Dimensions (mm)		
	L	W	e
□MK105 (0402)	1.0	0.5 ± 0.05	0.25
□MK107 (0603)	1.6	0.8 ± 0.10	0.35
□MK21 2 (0805)	2.0	1.25 ± 0.10	0.5
□MK316 (1206)	3.2	1.6 ± 015	0.5

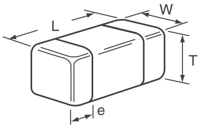

Size Code	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
						10	100	500		Size	Pricing	
0402	50	390pF	±5%	0.5	587-1462-1-ND ***NEW!***	4.27	25.22	72.75	587-1462-2-ND ***NEW!***	10,000	70.00/M	UMK105SD391JV-F
		390pF	±10%	0.5	587-1461-1-ND ***NEW!***	4.00	23.66	68.25	587-1461-2-ND ***NEW!***	10,000	66.00/M	UMK105SD391KV-F
		470pF	±5%	0.5	587-1464-1-ND ***NEW!***	4.27	25.22	72.75	587-1464-2-ND ***NEW!***	10,000	70.00/M	UMK105SD471JV-F
		470pF	±10%	0.5	587-1463-1-ND ***NEW!***	3.89	23.01	66.38	587-1463-2-ND ***NEW!***	10,000	64.00/M	UMK105SD471KV-F
		560pF	±5%	0.5	587-1466-1-ND ***NEW!***	4.27	25.22	72.75	587-1466-2-ND ***NEW!***	10,000	70.00/M	UMK105SD561JV-F
		560pF	±10%	0.5	587-1465-1-ND ***NEW!***	4.00	23.66	68.25	587-1465-2-ND ***NEW!***	10,000	66.00/M	UMK105SD561KV-F

(Continued)

TAIYO YUDEN Super Low Distortion Multilayer Ceramic Capacitors (CFCAP) *(Cont.)*

Size Code	WV DC	Capacitance	Tolerance	Dimension T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Taiyo Yuden Part No.
						10	100	500		Size	Pricing	
0402	25	680pF	±5%	0.5	587-1458-1-ND ***NEW!***	4.04	23.86	68.81	587-1458-2-ND ***NEW!***	10,000	66.00/M	TMK105SD681JV-F
		680pF	±10%	0.5	587-1457-1-ND ***NEW!***	3.80	22.43	64.69	587-1457-2-ND ***NEW!***	10,000	62.00/M	TMK105SD681KV-F
		820pF	±5%	0.5	587-1460-1-ND ***NEW!***	4.04	23.86	68.81	587-1460-2-ND ***NEW!***	10,000	66.00/M	TMK105SD821JV-F
		820pF	±10%	0.5	587-1459-1-ND ***NEW!***	3.80	22.43	64.69	587-1459-2-ND ***NEW!***	10,000	62.00/M	TMK105SD821KV-F
		1000pF	±5%	0.5	587-1051-1-ND	4.40	26.00	75.00	587-1051-2-ND	10,000	72.00/M	TMK105SD102JV-F
		1000pF	±10%	0.5	587-1052-1-ND	3.85	22.75	65.63	587-1052-2-ND	10,000	63.00/M	TMK105SD102KV-F
		1200pF	±5%	0.5	587-1053-1-ND	4.51	26.65	76.88	587-1053-2-ND	10,000	74.00/M	TMK105SD122JV-F
		1200pF	±10%	0.5	587-1054-1-ND	3.96	23.40	67.50	587-1054-2-ND	10,000	65.00/M	TMK105SD122KV-F
	16	1500pF	±5%	0.5	587-1055-1-ND	4.29	25.35	73.13	587-1055-2-ND	10,000	70.00/M	EMK105SD152JV-F
		1500pF	±10%	0.5	587-1056-1-ND	4.07	24.05	69.38	587-1056-2-ND	10,000	67.00/M	EMK105SD152KV-F
		1800pF	±5%	0.5	587-1057-1-ND	4.29	25.35	73.13	587-1057-2-ND	10,000	70.00/M	EMK105SD182JV-F
		1800pF	±10%	0.5	587-1058-1-ND	4.07	24.05	69.38	587-1058-2-ND	10,000	67.00/M	EMK105SD182KV-F
		2200pF	±5%	0.5	587-1059-1-ND	4.29	25.35	73.13	587-1059-2-ND	10,000	70.00/M	EMK105SD222JV-F
		2200pF	±10%	0.5	587-1060-1-ND	4.07	24.05	69.38	587-1060-2-ND	10,000	67.00/M	EMK105SD222KV-F
		2700pF	±5%	0.5	587-1061-1-ND	4.29	25.35	73.13	587-1061-2-ND	10,000	70.00/M	EMK105SD272JV-F
		2700pF	±10%	0.5	587-1062-1-ND	4.07	24.05	69.38	587-1062-2-ND	10,000	67.00/M	EMK105SD272KV-F
	10	3300pF	±5%	0.5	587-1063-1-ND	4.29	25.35	73.13	587-1063-2-ND	10,000	70.00/M	LMK105SD332JV-F
		3300pF	±10%	0.5	587-1064-1-ND	4.07	24.05	69.38	587-1064-2-ND	10,000	67.00/M	LMK105SD332KV-F
		3900pF	±5%	0.5	587-1065-1-ND	4.62	27.30	78.75	587-1065-2-ND	10,000	76.00/M	LMK105SD392JV-F
		3900pF	±10%	0.5	587-1066-1-ND	4.51	26.65	76.88	587-1066-2-ND	10,000	74.00/M	LMK105SD392KV-F
		4700pF	±5%	0.5	587-1067-1-ND	4.73	27.95	80.63	587-1067-2-ND	10,000	77.00/M	LMK105SD472JV-F
		4700pF	±10%	0.5	587-1068-1-ND	4.51	26.65	76.88	587-1068-2-ND	10,000	74.00/M	LMK105SD472KV-F
0603	50	1000pF	±5%	0.8	587-1069-1-ND	4.40	26.00	75.00	587-1069-2-ND	4,000	72.00/M	UMK107SD102JA-T
		1000pF	±10%	0.8	587-1070-1-ND	3.85	22.75	65.63	587-1070-2-ND	4,000	63.00/M	UMK107SD102KA-T
		1200pF	±5%	0.8	587-1071-1-ND	5.50	32.50	93.75	587-1071-2-ND	4,000	90.00/M	UMK107SD122JA-T
		1200pF	±10%	0.8	587-1072-1-ND	5.06	29.90	86.25	587-1072-2-ND	4,000	83.00/M	UMK107SD122KA-T
		1500pF	±5%	0.8	587-1073-1-ND	5.50	32.50	93.75	587-1073-2-ND	4,000	90.00/M	UMK107SD152JA-T
		1500pF	±10%	0.8	587-1074-1-ND	5.06	29.90	86.25	587-1074-2-ND	4,000	83.00/M	UMK107SD152KA-T
		1800pF	±5%	0.8	587-1075-1-ND	5.50	32.50	93.75	587-1075-2-ND	4,000	90.00/M	UMK107SD182JA-T
		1800pF	±10%	0.8	587-1076-1-ND	5.06	29.90	86.25	587-1076-2-ND	4,000	83.00/M	UMK107SD182KA-T
		2200pF	±5%	0.8	587-1077-1-ND	5.17	30.55	88.13	587-1077-2-ND	4,000	85.00/M	UMK107SD222JA-T
		2200pF	±10%	0.8	587-1078-1-ND	4.62	27.30	78.75	587-1078-2-ND	4,000	76.00/M	UMK107SD222KA-T
		2700pF	±5%	0.8	587-1079-1-ND	5.50	32.50	93.75	587-1079-2-ND	4,000	90.00/M	UMK107SD272JA-T
		2700pF	±10%	0.8	587-1080-1-ND	5.06	29.90	86.25	587-1080-2-ND	4,000	83.00/M	UMK107SD272KA-T
		3300pF	±5%	0.8	587-1081-1-ND	5.50	32.50	93.75	587-1081-2-ND	4,000	90.00/M	UMK107SD332JA-T
		3300pF	±10%	0.8	587-1082-1-ND	5.06	29.90	86.25	587-1082-2-ND	4,000	83.00/M	UMK107SD332KA-T
	25	3900pF	±5%	0.8	587-1083-1-ND	4.95	29.25	84.38	587-1083-2-ND	4,000	81.00/M	TMK107SD392JA-T
		3900pF	±10%	0.8	587-1084-1-ND	4.29	25.35	73.13	587-1084-2-ND	4,000	70.00/M	TMK107SD392KA-T
		4700pF	±5%	0.8	587-1085-1-ND	4.95	29.25	84.38	587-1085-2-ND	4,000	81.00/M	TMK107SD472JA-T
		4700pF	±10%	0.8	587-1086-1-ND	4.29	25.35	73.13	587-1086-2-ND	4,000	70.00/M	TMK107SD472KA-T
	16	5600pF	±5%	0.8	587-1087-1-ND	5.17	30.55	88.13	587-1087-2-ND	4,000	85.00/M	EMK107SD562JA-T
		5600pF	±10%	0.8	587-1088-1-ND	4.51	26.65	76.88	587-1088-2-ND	4,000	74.00/M	EMK107SD562KA-T
		6800pF	±5%	0.8	587-1089-1-ND	5.17	30.55	88.13	587-1089-2-ND	4,000	85.00/M	EMK107SD682JA-T
		6800pF	±10%	0.8	587-1090-1-ND	4.51	26.65	76.88	587-1090-2-ND	4,000	74.00/M	EMK107SD682KA-T
		8200pF	±5%	0.8	587-1091-1-ND	5.17	30.55	88.13	587-1091-2-ND	4,000	85.00/M	EMK107SD822JA-T
		8200pF	±10%	0.8	587-1092-1-ND	4.51	26.65	76.88	587-1092-2-ND	4,000	74.00/M	EMK107SD822KA-T
		10000pF	±5%	0.8	587-1093-1-ND	4.40	26.00	75.00	587-1093-2-ND	4,000	72.00/M	EMK107SD103JA-T
		10000pF	±10%	0.8	587-1094-1-ND	3.85	22.75	65.63	587-1094-2-ND	4,000	63.00/M	EMK107SD103KA-T
	10	12000pF	±5%	0.8	587-1095-1-ND	5.61	33.15	95.63	587-1095-2-ND	4,000	92.00/M	LMK107SD123JA-T
		12000pF	±10%	0.8	587-1096-1-ND	4.51	26.65	76.88	587-1096-2-ND	4,000	74.00/M	LMK107SD123KA-T
		15000pF	±5%	0.8	587-1097-1-ND	5.61	33.15	95.63	587-1097-2-ND	4,000	92.00/M	LMK107SD153JA-T
		15000pF	±10%	0.8	587-1098-1-ND	4.51	26.65	76.88	587-1098-2-ND	4,000	74.00/M	LMK107SD153KA-T
		18000pF	±5%	0.8	587-1099-1-ND	5.61	33.15	95.63	587-1099-2-ND	4,000	92.00/M	LMK107SD183JA-T
		18000pF	±10%	0.8	587-1100-1-ND	4.51	26.65	76.88	587-1100-2-ND	4,000	74.00/M	LMK107SD183KA-T
		22000pF	±5%	0.8	587-1101-1-ND	5.61	33.15	95.63	587-1101-2-ND	4,000	92.00/M	LMK107SD223JA-T
		22000pF	±10%	0.8	587-1102-1-ND	4.51	26.65	76.88	587-1102-2-ND	4,000	74.00/M	LMK107SD223KA-T
0805	50	3900pF	±5%	0.85	587-1103-1-ND	5.50	32.50	93.75	587-1103-2-ND	4,000	90.00/M	UMK212SD392JD-T
		3900pF	±10%	0.85	587-1104-1-ND	5.06	29.90	86.25	587-1104-2-ND	4,000	83.00/M	UMK212SD392KD-T
		4700pF	±5%	0.85	587-1105-1-ND	5.83	34.45	99.38	587-1105-2-ND	4,000	95.00/M	UMK212SD472JD-T
		4700pF	±10%	0.85	587-1106-1-ND	5.39	31.85	91.88	587-1106-2-ND	4,000	88.00/M	UMK212SD472KD-T
		5600pF	±5%	0.85	587-1107-1-ND	5.94	35.10	101.25	587-1107-2-ND	4,000	97.00/M	UMK212SD562JD-T
		5600pF	±10%	0.85	587-1108-1-ND	5.50	32.50	93.75	587-1108-2-ND	4,000	90.00/M	UMK212SD562KD-T
		6800pF	±5%	0.85	587-1109-1-ND	6.05	35.75	103.13	587-1109-2-ND	4,000	99.00/M	UMK212SD682JD-T
		6800pF	±10%	0.85	587-1110-1-ND	5.61	33.15	95.63	587-1110-2-ND	4,000	92.00/M	UMK212SD682KD-T
		8200pF	±5%	0.85	587-1111-1-ND	6.49	38.35	110.63	587-1111-2-ND	4,000	106.00/M	UMK212SD822JD-T
		8200pF	±10%	0.85	587-1112-1-ND	5.94	35.10	101.25	587-1112-2-ND	4,000	97.00/M	UMK212SD822KD-T
		10000pF	±5%	0.85	587-1113-1-ND	5.50	32.50	93.75	587-1113-2-ND	4,000	90.00/M	UMK212SD103JD-T
		10000pF	±10%	0.85	587-1114-1-ND	4.95	29.25	84.38	587-1114-2-ND	4,000	81.00/M	UMK212SD103KD-T
	35	12000pF	±5%	0.85	587-1115-1-ND	6.38	37.70	108.75	587-1115-2-ND	4,000	104.00/M	GMK212SD123JD-T
		12000pF	±10%	0.85	587-1116-1-ND	5.94	35.10	101.25	587-1116-2-ND	4,000	97.00/M	GMK212SD123KD-T
		15000pF	±5%	0.85	587-1117-1-ND	6.49	38.35	110.63	587-1117-2-ND	4,000	106.00/M	GMK212SD153JD-T
		15000pF	±10%	0.85	587-1118-1-ND	6.16	36.40	105.00	587-1118-2-ND	4,000	101.00/M	GMK212SD153KD-T
		18000pF	±5%	1.25	587-1119-1-ND	6.16	36.40	105.00	587-1119-2-ND	3,000	101.00/M	GMK212SD183JG-T
		18000pF	±10%	1.25	587-1120-1-ND	5.72	33.80	97.50	587-1120-2-ND	3,000	94.00/M	GMK212SD183KG-T
		22000pF	±5%	1.25	587-1121-1-ND	6.16	36.40	105.00	587-1121-2-ND	3,000	101.00/M	GMK212SD223JG-T
		22000pF	±10%	1.25	587-1122-1-ND	5.72	33.80	97.50	587-1122-2-ND	3,000	94.00/M	GMK212SD223KG-T
		27000pF	±5%	1.25	587-1123-1-ND	6.27	37.05	106.88	587-1123-2-ND	3,000	103.00/M	GMK212SD273JG-T
		27000pF	±10%	1.25	587-1124-1-ND	5.83	34.45	99.38	587-1124-2-ND	3,000	95.00/M	GMK212SD273KG-T
	16	33000pF	±5%	0.85	587-1125-1-ND	6.84	40.43	116.63	587-1125-2-ND	4,000	112.00/M	EMK212SD333JD-T
		33000pF	±10%	0.85	587-1126-1-ND	6.16	36.40	105.00	587-1126-2-ND	4,000	101.00/M	EMK212SD333KD-T
	10	47000pF	±5%	0.85	587-1127-1-ND	6.82	40.30	116.25	587-1127-2-ND	4,000	112.00/M	LMK212SD473JD-T
		47000pF	±10%	0.85	587-1128-1-ND	6.38	37.70	108.75	587-1128-2-ND	4,000	104.00/M	LMK212SD473KD-T
		68000pF	±5%	1.25	587-1129-1-ND	6.82	40.30	116.25	587-1129-2-ND	3,000	112.00/M	LMK212SD683JG-T
		68000pF	±10%	1.25	587-1130-1-ND	6.38	37.70	108.75	587-1130-2-ND	3,000	104.00/M	LMK212SD683KG-T
		82000pF	±5%	1.25	587-1131-1-ND	6.82	40.30	116.25	587-1131-2-ND	3,000	112.00/M	LMK212SD823JG-T
		82000pF	±10%	1.25	587-1132-1-ND	6.38	37.70	108.75	587-1132-2-ND	3,000	104.00/M	LMK212SD823KG-T
		.10µF	±5%	1.25	587-1133-1-ND	6.05	35.75	103.13	587-1133-2-ND	3,000	99.00/M	LMK212SD104JG-T
		.10µF	±10%	1.25	587-1134-1-ND	5.50	32.50	93.75	587-1134-2-ND	3,000	90.00/M	LMK212SD104KG-T
1206	35	33000pF	±5%	1.15	587-1135-1-ND	10.53	62.21	179.44	587-1135-2-ND	3,000	172.00/M	GMK316SD333JF-T
		33000pF	±10%	1.15	587-1136-1-ND	9.32	55.06	158.81	587-1136-2-ND	3,000	152.00/M	GMK316SD333KF-T
		39000pF	±5%	1.15	587-1137-1-ND	10.65	62.92	181.50	587-1137-2-ND	3,000	174.00/M	GMK316SD393JF-T
		39000pF	±10%	1.15	587-1138-1-ND	9.44	55.77	160.88	587-1138-2-ND	3,000	152.00/M	GMK316SD393KF-T
	25	47000pF	±5%	1.15	587-1139-1-ND	9.57	56.55	163.13	587-1139-2-ND	3,000	157.00/M	TMK316SD473JF-T
		47000pF	±10%	1.15	587-1140-1-ND	9.13	53.95	155.63	587-1140-2-ND	3,000	149.00/M	TMK316SD473KF-T
		56000pF	±5%	1.15	587-1141-1-ND	9.57	56.55	163.13	587-1141-2-ND	3,000	157.00/M	TMK316SD563JF-T
		56000pF	±10%	1.15	587-1142-1-ND	9.13	53.95	155.63	587-1142-2-ND	3,000	149.00/M	TMK316SD563KF-T
		68000pF	±5%	1.15	587-1143-1-ND	9.57	56.55	163.13	587-1143-2-ND	3,000	157.00/M	TMK316SD683JF-T
		68000pF	±10%	1.15	587-1144-1-ND	9.13	53.95	155.63	587-1144-2-ND	3,000	149.00/M	TMK316SD683KF-T
		82000pF	±5%	1.6	587-1145-1-ND	10.01	59.15	170.63	587-1145-2-ND	2,000	164.00/M	TMK316SD823JL-T
		82000pF	±10%	1.6	587-1146-1-ND	9.57	56.55	163.13	587-1146-2-ND	2,000	157.00/M	TMK316SD823KL-T
		.10µF	±5%	1.6	587-1147-1-ND	8.80	52.00	150.00	587-1147-2-ND	2,000	144.00/M	TMK316SD104JL-T
		.10µF	±10%	1.6	587-1148-1-ND	8.25	48.75	140.63	587-1148-2-ND	2,000	135.00/M	TMK316SD104KL-T

TDK Multilayer Ceramic Chip Capacitors

Features: • High capacitance has been achieved through precision technologies that enable the use of multiple thinner ceramic dielectric layers • Monolithic structure ensures superior mechanical strength and reliability • High-accuracy automatic mounting is facilitated through the maintenance of very precise dimensional tolerances • Composed of only ceramics and metals, these capacitors provide extremely dependable performance, exhibiting virtually no degradation even when subjected to temperature extremes **Applications:** • Cellular phones • Portable/Handheld devices (PDA's, MP3 players, etc) • RF Module (VCO, TCXO, PA, etc) **Operating Temperature:** • C0G: -55°C ~ 125°C • X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C • Y5V: -30°C ~ 85°C • X8R: -55°C ~ 150°C • SL: 20°C ~ 85°C

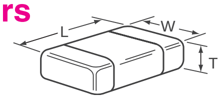

EIA Code	EIAJ Code	Dim. (mm) L	Dim. (mm) W	EIA Code	EIAJ Code	Dim. (mm) L	Dim. (mm) W
0201	0603	0.6	0.3	0805	2012	2.0	1.25
0306	0816	0.8	1.6	1206	3216	3.2	1.6
0402	1005	1.0	0.5	1210	3225	3.2	2.5
0508	1220	1.25	2.0	1808	4520	4.5	2.0
0603	1608	1.6	0.8	1812	4532	4.5	3.2
0612	1632	1.6	3.2	2220	5750	5.7	5.0

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	TDK Part No.
0201	C0G (NP0)	50	1.0pF	±0.25pF	0.3	445-1760-1-ND	.49	2.90	8.36	445-1760-2-ND	15,000	8.03/M	C0603C0G1H010C
		50	1.5pF	±0.25pF	0.3	445-1770-1-ND	.49	2.90	8.36	445-1770-2-ND	15,000	8.03/M	C0603C0G1H1R5C
		50	2.0pF	±0.25pF	0.3	445-1761-1-ND	.49	2.90	8.36	445-1761-2-ND	15,000	8.03/M	C0603C0G1H020C
		50	2.2pF	±0.25pF	0.3	445-1771-1-ND	.49	2.90	8.36	445-1771-2-ND	15,000	8.03/M	C0603C0G1H2R2C
		50	3.0pF	±0.25pF	0.3	445-1762-1-ND	.49	2.90	8.36	445-1762-2-ND	15,000	8.03/M	C0603C0G1H030C
		50	3.3pF	±0.25pF	0.3	445-1772-1-ND	.49	2.90	8.36	445-1772-2-ND	15,000	8.03/M	C0603C0G1H3R3C
		50	4.0pF	±0.25pF	0.3	445-1763-1-ND	.49	2.90	8.36	445-1763-2-ND	15,000	8.03/M	C0603C0G1H040C
		50	4.7pF	±0.25pF	0.3	445-1773-1-ND	.49	2.90	8.36	445-1773-2-ND	15,000	8.03/M	C0603C0G1H4R7C
		50	5.0pF	±0.25pF	0.3	445-1764-1-ND	.49	2.90	8.36	445-1764-2-ND	15,000	8.03/M	C0603C0G1H050C
		50	6.0pF	±0.5pF	0.3	445-1765-1-ND	.49	2.90	8.36	445-1765-2-ND	15,000	8.03/M	C0603C0G1H060D
		50	6.8pF	±0.5pF	0.3	445-1774-1-ND	.49	2.90	8.36	445-1774-2-ND	15,000	8.03/M	C0603C0G1H6R8D
		50	7.0pF	±0.5pF	0.3	445-1766-1-ND	.49	2.90	8.36	445-1766-2-ND	15,000	8.03/M	C0603C0G1H070D
		50	8.0pF	±0.5pF	0.3	445-1767-1-ND	.49	2.90	8.36	445-1767-2-ND	15,000	8.03/M	C0603C0G1H080D
		50	9.0pF	±0.5pF	0.3	445-1768-1-ND	.49	2.90	8.36	445-1768-2-ND	15,000	8.03/M	C0603C0G1H090D
		50	10pF	±0.5pF	0.3	445-1769-1-ND	.49	2.90	8.36	445-1769-2-ND	15,000	8.03/M	C0603C0G1H100D
		50	12pF	±5%	0.3	445-1775-1-ND	.49	2.90	8.36	445-1775-2-ND	15,000	8.03/M	C0603C0G1H120J
		50	15pF	±5%	0.3	445-1776-1-ND	.49	2.90	8.36	445-1776-2-ND	15,000	8.03/M	C0603C0G1H150J
		50	18pF	±5%	0.3	445-1777-1-ND	.49	2.90	8.36	445-1777-2-ND	15,000	8.03/M	C0603C0G1H180J
		50	22pF	±5%	0.3	445-1778-1-ND	.49	2.90	8.36	445-1778-2-ND	15,000	8.03/M	C0603C0G1H220J
		50	27pF	±5%	0.3	445-1779-1-ND	.49	2.90	8.36	445-1779-2-ND	15,000	8.03/M	C0603C0G1H270J
		50	33pF	±5%	0.3	445-1780-1-ND	.49	2.90	8.36	445-1780-2-ND	15,000	8.03/M	C0603C0G1H330J
		50	39pF	±5%	0.3	445-1781-1-ND	.49	2.90	8.36	445-1781-2-ND	15,000	8.03/M	C0603C0G1H390J
		50	47pF	±5%	0.3	445-1782-1-ND	.49	2.90	8.36	445-1782-2-ND	15,000	8.03/M	C0603C0G1H470J
		50	56pF	±5%	0.3	445-1783-1-ND	.49	2.90	8.36	445-1783-2-ND	15,000	8.03/M	C0603C0G1H560J
		50	68pF	±5%	0.3	445-1784-1-ND	.49	2.90	8.36	445-1784-2-ND	15,000	8.03/M	C0603C0G1H680J
		50	82pF	±5%	0.3	445-1785-1-ND	.49	2.90	8.36	445-1785-2-ND	15,000	8.03/M	C0603C0G1H820J
		50	100pF	±5%	0.3	445-1786-1-ND	.49	2.90	8.36	445-1786-2-ND	15,000	8.03/M	C0603C0G1H101J
	X5R	50	100pF	±10%	0.3	445-1787-1-ND	.49	2.90	8.36	445-1787-2-ND	15,000	8.03/M	C0603X5R1H101K
		50	220pF	±10%	0.3	445-1788-1-ND	.49	2.90	8.36	445-1788-2-ND	15,000	8.03/M	C0603X5R1H221K
		50	470pF	±10%	0.3	445-1789-1-ND	.49	2.90	8.36	445-1789-2-ND	15,000	8.03/M	C0603X5R1H471K
		25	1000pF	±10%	0.3	445-1790-1-ND	.51	3.03	8.74	445-1790-2-ND	15,000	8.39/M	C0603X5R1E102K
		25	2200pF	±10%	0.3	445-1791-1-ND	.49	2.90	8.36	445-1791-2-ND	15,000	8.03/M	C0603X5R1E222K
		16	4700pF	±10%	0.3	445-1792-1-ND	.49	2.90	8.36	445-1792-2-ND	15,000	8.03/M	C0603X5R1C472K
		10	10000pF	±10%	0.3	445-1793-1-ND	.49	2.90	8.36	445-1793-2-ND	15,000	8.03/M	C0603X5R1A103K
		6.3	22000pF	±10%	0.3	445-1794-1-ND	.61	3.59	10.37	445-1794-2-ND	15,000	9.96/M	C0603X5R0J223K
		6.3	47000pF	±10%	0.3	445-1795-1-ND	.61	3.59	10.37	445-1795-2-ND	15,000	9.96/M	C0603X5R0J473K
		6.3	0.1µF	±10%	0.3	445-1796-1-ND	.72	4.23	12.19	445-1796-2-ND	15,000	11.70/M	C0603X5R0J104K
	Y5V	16	10000pF	+80/-20%	0.3	445-1797-1-ND	.49	2.90	8.36	445-1797-2-ND	15,000	8.03/M	C0603Y5V1C103Z
0306	X7R	16	10000pF	±10%	0.5	445-1798-1-ND	2.93	17.34	50.03	445-1798-2-ND	4,000	48.03/M	C0816X7R1C103K
		16	22000pF	±10%	0.5	445-1799-1-ND	3.17	18.73	54.02	445-1799-2-ND	4,000	51.86/M	C0816X7R1C223K
		16	47000pF	±10%	0.5	445-1800-1-ND	3.52	20.81	60.02	445-1800-2-ND	4,000	57.62/M	C0816X7R1C473K
		16	0.1µF	±10%	0.5	445-1801-1-ND	3.76	22.19	64.01	445-1801-2-ND	4,000	61.46/M	C0816X7R1C104K
	X5R	10	0.22µF	±10%	0.5	445-1802-1-ND	3.99	23.58	68.03	445-1802-2-ND	4,000	65.31/M	C0816X5R1A224K
0402	C0G (NP0)	50	10pF	±0.5pF	0.5	445-1235-1-ND	.53	3.15	9.09	445-1235-2-ND	10,000	8.73/M	C1005C0G1H100D
		50	12pF	±5%	0.5	445-1236-1-ND	.55	3.28	9.45	445-1236-2-ND	10,000	9.08/M	C1005C0G1H120J
		50	15pF	±5%	0.5	445-1237-1-ND	.57	3.38	9.75	445-1237-2-ND	10,000	9.36/M	C1005C0G1H150J
		50	18pF	±5%	0.5	445-1238-1-ND	.55	3.28	9.45	445-1238-2-ND	10,000	9.08/M	C1005C0G1H180J
		50	22pF	±5%	0.5	445-1239-1-ND	.53	3.15	9.09	445-1239-2-ND	10,000	8.73/M	C1005C0G1H220J
		50	27pF	±5%	0.5	445-1240-1-ND	.55	3.28	9.45	445-1240-2-ND	10,000	9.08/M	C1005C0G1H270J
		50	33pF	±5%	0.5	445-1241-1-ND	.55	3.28	9.45	445-1241-2-ND	10,000	9.08/M	C1005C0G1H330J
		50	39pF	±5%	0.5	445-1242-1-ND	.55	3.28	9.45	445-1242-2-ND	10,000	9.08/M	C1005C0G1H390J
		50	47pF	±5%	0.5	445-1243-1-ND	.53	3.15	9.09	445-1243-2-ND	10,000	8.73/M	C1005C0G1H470J
		50	56pF	±5%	0.5	445-1244-1-ND	.57	3.38	9.75	445-1244-2-ND	10,000	9.36/M	C1005C0G1H560J
		50	68pF	±5%	0.5	445-1245-1-ND	.55	3.28	9.45	445-1245-2-ND	10,000	9.08/M	C1005C0G1H680J
		50	82pF	±5%	0.5	445-1246-1-ND	.57	3.38	9.75	445-1246-2-ND	10,000	9.36/M	C1005C0G1H820J
		50	100pF	±5%	0.5	445-1247-1-ND	.53	3.15	9.09	445-1247-2-ND	10,000	8.73/M	C1005C0G1H101J
		50	120pF	±5%	0.5	445-1248-1-ND	.62	3.66	10.56	445-1248-2-ND	10,000	10.14/M	C1005C0G1H121J
		50	150pF	±5%	0.5	445-1249-1-ND	.62	3.66	10.56	445-1249-2-ND	10,000	10.14/M	C1005C0G1H151J
		50	180pF	±5%	0.5	445-1250-1-ND	.72	4.26	12.30	445-1250-2-ND	10,000	11.81/M	C1005C0G1H181J
		50	220pF	±5%	0.5	445-1251-1-ND	.72	4.26	12.30	445-1251-2-ND	10,000	11.81/M	C1005C0G1H221J
		50	270pF	±5%	0.5	445-1252-1-ND	.84	4.96	14.31	445-1252-2-ND	10,000	13.74/M	C1005C0G1H271J
		50	330pF	±5%	0.5	445-1253-1-ND	.84	4.96	14.31	445-1253-2-ND	10,000	13.74/M	C1005C0G1H331J
		50	390pF	±5%	0.5	445-2655-1-ND ***NEW!***	.88	5.20	15.00	445-2655-2-ND ***NEW!***	15,000	14.00/M	C1005C0G1H391J
		50	470pF	±5%	0.5	445-2656-1-ND ***NEW!***	.88	5.20	15.00	445-2656-2-ND ***NEW!***	15,000	14.00/M	C1005C0G1H471J
		25	560pF	±5%	0.5	445-2652-1-ND ***NEW!***	.99	5.85	16.88	445-2652-2-ND ***NEW!***	15,000	16.00/M	C1005C0G1E561J
		25	680pF	±5%	0.5	445-2653-1-ND ***NEW!***	.99	5.85	16.88	445-2653-2-ND ***NEW!***	15,000	16.00/M	C1005C0G1E681J
		25	820pF	±5%	0.5	445-2654-1-ND ***NEW!***	1.10	6.50	18.75	445-2654-2-ND ***NEW!***	15,000	18.00/M	C1005C0G1E821J
		25	1000pF	±5%	0.5	445-2651-1-ND ***NEW!***	1.10	6.50	18.75	445-2651-2-ND ***NEW!***	10,000	18.00/M	C1005C0G1E102J
	X7R	50	220pF	±10%	0.5	445-1254-1-ND	.57	3.38	9.75	445-1254-2-ND	10,000	9.36/M	C1005X7R1H221K
		50	470pF	±10%	0.5	445-1255-1-ND	.55	3.28	9.45	445-1255-2-ND	10,000	9.08/M	C1005X7R1H471K
		50	1000pF	±10%	0.5	445-1256-1-ND	.53	3.15	9.09	445-1256-2-ND	10,000	8.73/M	C1005X7R1H102K
		50	2200pF	±10%	0.5	445-1257-1-ND	.57	3.38	9.75	445-1257-2-ND	10,000	9.36/M	C1005X7R1H222K
		50	4700pF	±10%	0.5	445-1258-1-ND	.57	3.38	9.75	445-1258-2-ND	10,000	9.36/M	C1005X7R1H472K
		25	4700pF	±10%	0.5	445-1259-1-ND	.55	3.28	9.45	445-1259-2-ND	10,000	9.08/M	C1005X7R1E472K
		25	10000pF	±10%	0.5	445-1260-1-ND	.55	3.28	9.45	445-1260-2-ND	10,000	9.08/M	C1005X7R1E103K
		25	22000pF	±10%	0.5	445-1261-1-ND	.77	4.55	13.13	445-1261-2-ND	10,000	12.60/M	C1005X7R1E223K
		16	10000pF	±10%	0.5	445-1262-1-ND	.53	3.15	9.09	445-1262-2-ND	10,000	8.73/M	C1005X7R1C103K
		16	22000pF	±10%	0.5	445-1263-1-ND	.69	4.10	11.83	445-1263-2-ND	10,000	11.36/M	C1005X7R1C223K
		16	47000pF	±10%	0.5	445-1264-1-ND	1.19	7.02	20.25	445-1264-2-ND	10,000	19.44/M	C1005X7R1C473K
	X5R	10	0.1µF	±10%	0.5	445-1265-1-ND	1.44	8.52	24.56	445-1265-2-ND	10,000	23.58/M	C1005X5R1A104K
		6.3	0.1µF	±10%	0.5	445-1266-1-ND	1.44	8.52	24.56	445-1266-2-ND	10,000	23.58/M	C1005X5R0J104K
		6.3	0.22µF	±20%	0.5	445-1267-1-ND	2.75	16.25	46.88	445-1267-2-ND	10,000	45.00/M	C1005X5R0J224M
		6.3	1.0µF	±20%	0.5	445-1415-1-ND	1.98	11.70	33.75	445-1415-2-ND	10,000	32.40/M	C1005X5R0J105M
	Y5V	16	0.1µF	+80/-20%	0.5	445-1268-1-ND	.85	5.04	14.55	445-1268-2-ND	10,000	13.97/M	C1005Y5V1C104Z
	X8R	50	220pF	±10%	0.5	445-2495-1-ND ***NEW!***	1.65	9.75	28.13	445-2495-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1H221K
		50	470pF	±10%	0.5	445-2496-1-ND ***NEW!***	1.65	9.75	28.13	445-2496-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1H471K
		50	1000pF	±10%	0.5	445-2497-1-ND ***NEW!***	1.65	9.75	28.13	445-2497-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1H102K
		50	2200pF	±10%	0.5	445-2498-1-ND ***NEW!***	1.65	9.75	28.13	445-2498-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1H222K
		50	4700pF	±10%	0.5	445-2499-1-ND ***NEW!***	1.65	9.75	28.13	445-2499-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1H472K
		25	0.01µF	±10%	0.5	445-2494-1-ND ***NEW!***	1.65	9.75	28.13	445-2494-2-ND ***NEW!***	10,000	27.00/M	C1005X8R1E103K
	SL	10	1200pF	±5%	0.5	445-2657-1-ND ***NEW!***	1.54	9.10	26.25	445-2657-2-ND ***NEW!***	15,000	25.00/M	C1005SL1A122J
		10	1500pF	±5%	0.5	445-2658-1-ND ***NEW!***	1.54	9.10	26.25	445-2658-2-ND ***NEW!***	15,000	25.00/M	C1005SL1A152J
		10	1800pF	±5%	0.5	445-2659-1-ND ***NEW!***	1.87	11.05	31.88	445-2659-2-ND ***NEW!***	15,000	31.00/M	C1005SL1A182J
		10	2200pF	±5%	0.5	445-2660-1-ND ***NEW!***	1.87	11.05	31.88	445-2660-2-ND ***NEW!***	15,000	31.00/M	C1005SL1A222J
		10	2700pF	±5%	0.5	445-2661-1-ND ***NEW!***	2.20	13.00	37.50	445-2661-2-ND ***NEW!***	15,000	36.00/M	C1005SL1A272J
		10	3300pF	±5%	0.5	445-2662-1-ND ***NEW!***	2.20	13.00	37.50	445-2662-2-ND ***NEW!***	15,000	36.00/M	C1005SL1A332J
		10	3900pF	±5%	0.5	445-2663-1-ND ***NEW!***	2.42	14.30	41.25	445-2663-2-ND ***NEW!***	15,000	40.00/M	C1005SL1A392J
0508	X7R	50	10000pF	±10%	0.85	445-1803-1-ND	3.29	19.42	56.03	445-1803-2-ND	4,000	53.79/M	C1220X7R1H103K
		50	22000pF	±10%	0.85	445-1804-1-ND	3.52	20.81	60.02	445-1804-2-ND	4,000	57.62/M	C1220X7R1H223K

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Size	Pricing	
0508	X5R	50	47000pF	±10%	0.85	445-1805-1-ND	3.76	22.19	64.01	445-1805-2-ND	4,000	61.46/M	C1220X7R1H473K
		25	0.1µF	±10%	0.85	445-1806-1-ND	3.99	23.58	68.03	445-1806-2-ND	4,000	65.31/M	C1220X7R1E104K
		16	0.22µF	±10%	0.85	445-1807-1-ND	4.23	24.97	72.02	445-1807-2-ND	4,000	69.14/M	C1220X7R1C224K
		10	0.47µF	±10%	0.85	445-1808-1-ND	4.46	26.36	76.03	445-1808-2-ND	4,000	72.99/M	C1220X5R1A474K
		10	1.0µF	±10%	0.85	445-1809-1-ND	4.69	27.74	80.03	445-1809-2-ND	4,000	76.83/M	C1220X5R1A105K
0603	C0G (NP0)	250	100pF	±5%	0.8	445-2314-1-ND	.64	3.78	10.91	445-2314-2-ND	4,000	10.00/M	C1608C0G2E101J
		250	150pF	±5%	0.8	445-2315-1-ND	.72	4.26	12.28	445-2315-2-ND	4,000	12.00/M	C1608C0G2E151J
		250	220pF	±5%	0.8	445-2316-1-ND	.80	4.73	13.65	445-2316-2-ND	4,000	13.00/M	C1608C0G2E221J
		250	330pF	±5%	0.8	445-2317-1-ND	.88	5.20	15.00	445-2317-2-ND	4,000	14.00/M	C1608C0G2E331J
		250	470pF	±5%	0.8	445-2318-1-ND	.96	5.67	16.37	445-2318-2-ND	4,000	16.00/M	C1608C0G2E471J
		250	680pF	±5%	0.8	445-2319-1-ND	1.04	6.15	17.74	445-2319-2-ND	4,000	17.00/M	C1608C0G2E681J
		100	100pF	±5%	0.8	445-2306-1-ND	.48	2.84	8.19	445-2306-2-ND	4,000	8.00/M	C1608C0G2A101J
		100	150pF	±5%	0.8	445-2307-1-ND	.56	3.31	9.54	445-2307-2-ND	4,000	9.00/M	C1608C0G2A151J
		100	220pF	±5%	0.8	445-2308-1-ND	.64	3.78	10.91	445-2308-2-ND	4,000	10.00/M	C1608C0G2A221J
		100	330pF	±5%	0.8	445-2309-1-ND	.72	4.26	12.28	445-2309-2-ND	4,000	12.00/M	C1608C0G2A331J
		100	470pF	±5%	0.8	445-2310-1-ND	.80	4.73	13.65	445-2310-2-ND	4,000	13.00/M	C1608C0G2A471J
		100	680pF	±5%	0.8	445-2311-1-ND	.88	5.20	15.00	445-2311-2-ND	4,000	14.00/M	C1608C0G2A681J
		100	1000pF	±5%	0.8	445-2312-1-ND	.96	5.67	16.37	445-2312-2-ND	4,000	16.00/M	C1608C0G2A102J
		100	1200pF	±5%	0.8	445-2313-1-ND	1.04	6.15	17.74	445-2313-2-ND	4,000	17.00/M	C1608C0G2A122J
		50	10pF	±0.5pF	0.8	445-1269-1-ND	.48	2.84	8.19	445-1269-2-ND	4,000	7.87/M	C1608C0G1H100D
		50	12pF	±5%	0.8	445-1270-1-ND	.51	3.03	8.74	445-1270-2-ND	4,000	8.39/M	C1608C0G1H120J
		50	15pF	±5%	0.8	445-1271-1-ND	.51	3.03	8.74	445-1271-2-ND	4,000	8.39/M	C1608C0G1H150J
		50	18pF	±5%	0.8	445-1272-1-ND	.51	3.03	8.74	445-1272-2-ND	4,000	8.39/M	C1608C0G1H180J
		50	22pF	±5%	0.8	445-1273-1-ND	.48	2.84	8.19	445-1273-2-ND	4,000	7.87/M	C1608C0G1H220J
		50	27pF	±5%	0.8	445-1274-1-ND	.51	3.03	8.74	445-1274-2-ND	4,000	8.39/M	C1608C0G1H270J
		50	33pF	±5%	0.8	445-1275-1-ND	.51	3.03	8.74	445-1275-2-ND	4,000	8.39/M	C1608C0G1H330J
		50	39pF	±5%	0.8	445-1276-1-ND	.51	3.03	8.74	445-1276-2-ND	4,000	8.39/M	C1608C0G1H390J
		50	47pF	±5%	0.8	445-1277-1-ND	.48	2.84	8.19	445-1277-2-ND	4,000	7.87/M	C1608C0G1H470J
		50	56pF	±5%	0.8	445-1278-1-ND	.51	3.03	8.74	445-1278-2-ND	4,000	8.39/M	C1608C0G1H560J
		50	68pF	±5%	0.8	445-1279-1-ND	.51	3.03	8.74	445-1279-2-ND	4,000	8.39/M	C1608C0G1H680J
		50	82pF	±5%	0.8	445-1280-1-ND	.51	3.03	8.74	445-1280-2-ND	4,000	8.39/M	C1608C0G1H820J
		50	100pF	±5%	0.8	445-1281-1-ND	.48	2.84	8.19	445-1281-2-ND	4,000	7.87/M	C1608C0G1H101J
		50	120pF	±5%	0.8	445-1282-1-ND	.51	3.03	8.74	445-1282-2-ND	4,000	8.39/M	C1608C0G1H121J
		50	150pF	±5%	0.8	445-1283-1-ND	.51	3.03	8.74	445-1283-2-ND	4,000	8.39/M	C1608C0G1H151J
		50	180pF	±5%	0.8	445-1284-1-ND	.59	3.47	10.01	445-1284-2-ND	4,000	9.62/M	C1608C0G1H181J
		50	220pF	±5%	0.8	445-1285-1-ND	.59	3.47	10.01	445-1285-2-ND	4,000	9.62/M	C1608C0G1H221J
		50	270pF	±5%	0.8	445-1286-1-ND	.69	4.10	11.83	445-1286-2-ND	4,000	11.36/M	C1608C0G1H271J
		50	330pF	±5%	0.8	445-1287-1-ND	.69	4.10	11.83	445-1287-2-ND	4,000	11.36/M	C1608C0G1H331J
		50	390pF	±5%	0.8	445-1288-1-ND	.80	4.73	13.65	445-1288-2-ND	4,000	13.11/M	C1608C0G1H391J
		50	470pF	±5%	0.8	445-1289-1-ND	.80	4.73	13.65	445-1289-2-ND	4,000	13.11/M	C1608C0G1H471J
		50	560pF	±5%	0.8	445-1290-1-ND	.91	5.36	15.47	445-1290-2-ND	4,000	14.85/M	C1608C0G1H561J
		50	680pF	±5%	0.8	445-1291-1-ND	.91	5.36	15.47	445-1291-2-ND	4,000	14.85/M	C1608C0G1H681J
		50	820pF	±5%	0.8	445-1292-1-ND	1.12	6.62	19.11	445-1292-2-ND	4,000	18.35/M	C1608C0G1H821J
		50	1000pF	±5%	0.8	445-1293-1-ND	1.12	6.62	19.11	445-1293-2-ND	4,000	18.35/M	C1608C0G1H102J
		50	1200pF	±5%	0.8	445-1294-1-ND	1.78	10.50	30.28	445-1294-2-ND	4,000	29.07/M	C1608C0G1H122J
		50	1500pF	±5%	0.8	445-1295-1-ND	1.78	10.50	30.28	445-1295-2-ND	4,000	29.07/M	C1608C0G1H152J
		50	1800pF	±5%	0.8	445-1296-1-ND	2.00	11.81	34.07	445-1296-2-ND	4,000	32.71/M	C1608C0G1H182J
		50	2200pF	±5%	0.8	445-1297-1-ND	1.94	11.45	33.04	445-1297-2-ND	4,000	31.72/M	C1608C0G1H222J
		50	2700pF	±5%	0.8	445-2669-1-ND ***NEW!***	2.20	13.00	37.50	445-2669-2-ND ***NEW!***	4,000	36.00/M	C1608C0G1H272J
		50	3300pF	±5%	0.8	445-1599-1-ND	2.15	12.68	36.56	445-1599-2-ND	4,000	35.10/M	C1608C0G1H332J
		25	3900pF	±5%	0.8	445-2665-1-ND ***NEW!***	2.75	16.25	46.88	445-2665-2-ND ***NEW!***	4,000	45.00/M	C1608C0G1E392J
		25	4700pF	±5%	0.8	445-2712-1-ND ***NEW!***	2.75	16.25	46.88	445-2712-2-ND ***NEW!***	4,000	45.00/M	C1608C0G1E472J
		25	5600pF	±5%	0.8	445-2666-1-ND ***NEW!***	3.30	19.50	56.25	445-2666-2-ND ***NEW!***	4,000	54.00/M	C1608C0G1E562J
		25	6800pF	±5%	0.8	445-2667-1-ND ***NEW!***	3.30	19.50	56.25	445-2667-2-ND ***NEW!***	4,000	54.00/M	C1608C0G1E682J
		25	8200pF	±5%	0.8	445-2668-1-ND ***NEW!***	3.85	22.75	65.63	445-2668-2-ND ***NEW!***	4,000	63.00/M	C1608C0G1E822J
		25	10000pF	±5%	0.8	445-2664-1-ND ***NEW!***	3.85	22.75	65.63	445-2664-2-ND ***NEW!***	4,000	63.00/M	C1608C0G1E103J
	X7R	100	1000pF	±10%	0.8	445-1298-1-ND	1.15	6.81	19.65	445-1298-2-ND	4,000	18.87/M	C1608X7R2A102K
		100	1000pF	±20%	0.8	445-1299-1-ND	1.09	6.44	18.56	445-1299-2-ND	4,000	17.82/M	C1608X7R2A102M
		100	2200pF	±10%	0.8	445-1300-1-ND	.80	4.73	13.65	445-1300-2-ND	4,000	13.11/M	C1608X7R2A222K
		100	2200pF	±20%	0.8	445-1301-1-ND	1.09	6.44	18.56	445-1301-2-ND	4,000	17.82/M	C1608X7R2A222M
		100	4700pF	±10%	0.8	445-1302-1-ND	.88	5.20	15.00	445-1302-2-ND	4,000	14.40/M	C1608X7R2A472K
		100	4700pF	±20%	0.8	445-1303-1-ND	1.09	6.44	18.56	445-1303-2-ND	4,000	17.82/M	C1608X7R2A472M
		100	10000pF	±10%	0.8	445-1304-1-ND	.96	5.67	16.37	445-1304-2-ND	4,000	15.72/M	C1608X7R2A103K
		100	10000pF	±20%	0.8	445-1305-1-ND	1.09	6.44	18.56	445-1305-2-ND	4,000	17.82/M	C1608X7R2A103M
		100	22000pF	±10%	0.8	445-2275-1-ND	1.12	6.62	19.11	445-2275-2-ND	4,000	18.00/M	C1608X7R2A223K
		50	220pF	±10%	0.8	445-1306-1-ND	.51	3.03	8.74	445-1306-2-ND	4,000	8.39/M	C1608X7R1H221K
		50	470pF	±10%	0.8	445-1307-1-ND	.51	3.03	8.74	445-1307-2-ND	4,000	8.39/M	C1608X7R1H471K
		50	1000pF	±10%	0.8	445-1308-1-ND	.48	2.84	8.19	445-1308-2-ND	4,000	7.87/M	C1608X7R1H102K
		50	2200pF	±10%	0.8	445-1309-1-ND	.51	3.03	8.74	445-1309-2-ND	4,000	8.39/M	C1608X7R1H222K
		50	4700pF	±10%	0.8	445-1310-1-ND	.51	3.03	8.74	445-1310-2-ND	4,000	8.39/M	C1608X7R1H472K
		50	10000pF	±10%	0.8	445-1311-1-ND	.48	2.84	8.19	445-1311-2-ND	4,000	7.87/M	C1608X7R1H103K
		50	22000pF	±10%	0.8	445-1312-1-ND	.69	4.10	11.83	445-1312-2-ND	4,000	11.36/M	C1608X7R1H223K
		50	47000pF	±10%	0.8	445-1313-1-ND	1.01	5.99	17.29	445-1313-2-ND	4,000	16.60/M	C1608X7R1H473K
		50	0.1µF	±10%	0.8	445-1314-1-ND	1.12	6.62	19.11	445-1314-2-ND	4,000	18.35/M	C1608X7R1H104K
		25	47000pF	±10%	0.8	445-1315-1-ND	1.01	5.99	17.29	445-1315-2-ND	4,000	16.60/M	C1608X7R1E473K
		25	0.1µF	±10%	0.8	445-1316-1-ND	.94	5.55	16.01	445-1316-2-ND	4,000	15.38/M	C1608X7R1E104K
		16	0.1µF	±10%	0.8	445-1317-1-ND	.94	5.55	16.01	445-1317-2-ND	4,000	15.38/M	C1608X7R1C104K
		16	0.22µF	±10%	0.8	445-1318-1-ND	1.90	11.23	32.38	445-1318-2-ND	4,000	31.09/M	C1608X7R1C224K
		16	1.0µF	±10%	0.8	445-1604-1-ND	1.71	10.09	29.10	445-1604-2-ND	4,000	27.94/M	C1608X7R1C105K
	X5R	16	1.0µF	±10%	0.8	445-1416-1-ND	4.55	26.90	77.59	445-1416-2-ND	4,000	74.49/M	C1608X5R1C105K
		10	0.22µF	±10%	0.8	445-1319-1-ND	1.79	10.60	30.56	445-1319-2-ND	4,000	29.34/M	C1608X5R1A224K
		10	0.47µF	±10%	0.8	445-1320-1-ND	2.75	16.25	46.88	445-1320-2-ND	4,000	45.00/M	C1608X5R1A474K
		10	1.0µF	±10%	0.8	445-1321-1-ND	2.20	13.00	37.50	445-1321-2-ND	4,000	36.00/M	C1608X5R1A105K
		6.3	1.0µF	±10%	0.8	445-1322-1-ND	2.20	13.00	37.50	445-1322-2-ND	4,000	36.00/M	C1608X5R0J105K
		6.3	2.2µF	±20%	0.8	445-1323-1-ND	6.05	35.75	103.13	445-1323-2-ND	4,000	99.00/M	C1608X5R0J225M
		6.3	4.7µF	±20%	0.8	445-1417-1-ND	3.96	23.40	67.50	445-1417-2-ND	4,000	64.80/M	C1608X5R0J475M
	Y5V	50	0.1µF	+80/-20%	0.8	445-1324-1-ND	.48	2.84	8.19	445-1324-2-ND	4,000	7.87/M	C1608Y5V1H104Z
		25	0.1µF	+80/-20%	0.8	445-1325-1-ND	.50	2.93	8.44	445-1325-2-ND	4,000	8.10/M	C1608Y5V1E104Z
		16	0.1µF	+80/-20%	0.8	445-1326-1-ND	.48	2.84	8.19	445-1326-2-ND	4,000	7.87/M	C1608Y5V1C104Z
		16	1.0µF	+80/-20%	0.8	445-1327-1-ND	1.87	11.04	31.84	445-1327-2-ND	4,000	30.57/M	C1608Y5V1C105Z
		10	1.0µF	+80/-20%	0.8	445-1328-1-ND	1.45	8.58	24.75	445-1328-2-ND	4,000	23.76/M	C1608Y5V1A105Z
	X8R	100	1000pF	±10%	0.8	445-2507-1-ND ***NEW!***	1.32	7.80	22.50	445-2507-2-ND ***NEW!***	4,000	22.00/M	C1608X8R2A102K
		100	2200pF	±10%	0.8	445-2508-1-ND ***NEW!***	1.32	7.80	22.50	445-2508-2-ND ***NEW!***	4,000	22.00/M	C1608X8R2A222K
		100	4700pF	±10%	0.8	445-2509-1-ND ***NEW!***	1.32	7.80	22.50	445-2509-2-ND ***NEW!***	4,000	22.00/M	C1608X8R2A472K
		100	0.01µF	±10%	0.8	445-2510-1-ND ***NEW!***	1.32	7.80	22.50	445-2510-2-ND ***NEW!***	4,000	22.00/M	C1608X8R2A103K
		100	0.015µF	±10%	0.8	445-2511-1-ND ***NEW!***	1.32	7.80	22.50	445-2511-2-ND ***NEW!***	4,000	22.00/M	C1608X8R2A153K
		50	1000pF	±10%	0.8	445-2501-1-ND ***NEW!***	1.16	6.83	19.69	445-2501-2-ND ***NEW!***	4,000	19.00/M	C1608X8R1H102K
		50	2200pF	±10%	0.8	445-2502-1-ND ***NEW!***	1.16	6.83	19.69	445-2502-2-ND ***NEW!***	4,000	19.00/M	C1608X8R1H222K
		50	4700pF	±10%	0.8	445-2503-1-ND ***NEW!***	1.16	6.83	19.69	445-2503-2-ND ***NEW!***	4,000	19.00/M	C1608X8R1H472K
		50	0.01µF	±10%	0.8	445-2504-1-ND ***NEW!***	1.16	6.83	19.69	445-2504-2-ND ***NEW!***	4,000	19.00/M	C1608X8R1H103K
		50	.022µF	±10%	0.8	445-2505-1-ND ***NEW!***	1.16	6.83	19.69	445-2505-2-ND ***NEW!***	4,000	19.00/M	C1608X8R1H223K
		50	.047µF	±10%	0.8	445-2506-1-ND ***NEW!***	1.16	6.83	19.69	445-2506-2-ND ***NEW!***	4,000	19.00/M	C1608X8R1H473K
		25	0.1µF	±10%	0.8	445-2500-1-ND ***NEW!***	1.16	6.83	19.69	445-2500-2-ND ***NEW!***	4,000	19.00/M	C1608X8R1E104K
	SL	10	15000pF	±5%	0.5	445-2670-1-ND ***NEW!***	6.60	39.00	112.50	445-2670-2-ND ***NEW!***	4,000	108.00/M	C1608SL1A153J
		10	22000pF	±5%	0.5	445-2671-1-ND ***NEW!***	6.60	39.00	112.50	445-2671-2-ND ***NEW!***	4,000	108.00/M	C1608SL1A223J
0612	X7R	50	10000pF	±10%	0.7	445-1810-1-ND	3.52	20.81	60.02	445-1810-2-ND	4,000	57.62/M	C1632X7R1H103K
		50	22000pF	±10%	0.7	445-1811-1-ND	3.76	22.19	64.01	445-1811-2-ND	4,000	61.46/M	C1632X7R1H223K
		50	47000pF	±10%	0.7	445-1812-1-ND	3.99	23.58	68.03	445-1812-2-ND	4,000	65.31/M	C1632X7R1H473K

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Case		WV			Dim. T	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		TDK
Size	Type	DC	Capacitance	Tolerance	(mm)	Part No.	10	100	500	Part No.	Size	Pricing	Part No.
0612	X7R	50	0.1µF	±10%	0.7	445-1813-1-ND	4.23	24.97	72.02	445-1813-2-ND	4,000	69.14/M	C1632X7R1H104K
		50	0.22µF	±10%	1.15	445-1814-1-ND	4.46	26.36	76.03	445-1814-2-ND	2,000	72.99/M	C1632X7R1H224K
		25	0.22µF	±10%	0.7	445-1815-1-ND	4.23	24.97	72.02	445-1815-2-ND	4,000	69.14/M	C1632X7R1E224K
		25	0.47µF	±10%	1.15	445-1816-1-ND	4.69	27.74	80.03	445-1816-2-ND	2,000	76.83/M	C1632X7R1E474K
		16	0.47µF	±10%	0.7	445-1817-1-ND	4.46	26.36	76.03	445-1817-2-ND	4,000	72.99/M	C1632X7R1C474K
		16	1.0µF	±10%	1.15	445-1818-1-ND	5.87	34.68	100.03	445-1818-2-ND	2,000	96.03/M	C1632X7R1C105K
	X5R	10	1.0µF	±10%	0.7	445-1819-1-ND	5.63	33.29	96.04	445-1819-2-ND	4,000	92.20/M	C1632X5R1A105K
		10	2.2µF	±10%	1.15	445-1820-1-ND	7.04	41.61	120.04	445-1820-2-ND	2,000	115.24/M	C1632X5R1A225K
		6.3	4.7µF	±10%	1.3	445-1821-1-ND	8.22	48.55	140.04	445-1821-2-ND	2,000	134.44/M	C1632X5R0J475K
0805	C0G (NP0)	250	1000pF	±5%	0.85	445-2325-1-ND	1.60	9.46	27.28	445-2325-2-ND	4,000	26.00/M	C2012C0G2E102J
		250	1500pF	±5%	0.85	445-2326-1-ND	1.92	11.35	32.74	445-2326-2-ND	4,000	31.00/M	C2012C0G2E152J
		250	2200pF	±5%	1.25	445-2327-1-ND	2.24	13.24	38.19	445-2327-2-ND	2,000	37.00/M	C2012C0G2E222J
		250	2700pF	±5%	1.25	445-2328-1-ND	2.40	14.19	40.93	445-2328-2-ND	2,000	39.00/M	C2012C0G2E272J
		100	1000pF	±5%	0.6	445-2320-1-ND	1.20	7.09	20.46	445-2320-2-ND	4,000	20.00/M	C2012C0G2A102J
		100	1500pF	±5%	0.6	445-2321-1-ND	1.44	8.52	24.56	445-2321-2-ND	4,000	24.00/M	C2012C0G2A152J
		100	2200pF	±5%	0.85	445-2322-1-ND	1.76	10.41	30.02	445-2322-2-ND	4,000	29.00/M	C2012C0G2A222J
		100	3300pF	±5%	1.25	445-2323-1-ND	2.08	12.30	35.48	445-2323-2-ND	2,000	34.00/M	C2012C0G2A332J
		100	4700pF	±5%	1.25	445-2324-1-ND	2.40	14.19	40.93	445-2324-2-ND	2,000	39.00/M	C2012C0G2A472J
		50	100pF	±5%	0.6	445-1329-1-ND	1.15	6.81	19.65	445-1329-2-ND	4,000	18.87/M	C2012C0G1H101J
		50	1000pF	±5%	0.6	445-1330-1-ND	2.13	12.61	36.38	445-1330-2-ND	4,000	34.92/M	C2012C0G1H102J
		50	1200pF	±5%	0.6	445-2681-1-ND ***NEW!***	1.54	9.10	26.25	445-2681-2-ND ***NEW!***	4,000	25.00/M	C2012C0G1H122J
		50	1500pF	±5%	0.6	445-1331-1-ND	1.55	9.15	26.38	445-1331-2-ND	4,000	25.33/M	C2012C0G1H152J
		50	1800pF	±5%	0.6	445-2682-1-ND ***NEW!***	1.87	11.05	31.88	445-2682-2-ND ***NEW!***	4,000	31.00/M	C2012C0G1H182J
		50	2200pF	±5%	0.6	445-1332-1-ND	1.97	11.67	33.66	445-1332-2-ND	4,000	32.31/M	C2012C0G1H222J
		50	2700pF	±5%	0.6	445-1600-1-ND	2.00	11.81	34.07	445-1600-2-ND	2,000	32.71/M	C2012C0G1H272J
		50	3300pF	±5%	0.6	445-1333-1-ND	2.31	13.65	39.38	445-1333-2-ND	2,000	37.80/M	C2012C0G1H332J
		50	3900pF	±5%	0.85	445-2683-1-ND ***NEW!***	3.30	19.50	56.25	445-2683-2-ND ***NEW!***	4,000	54.00/M	C2012C0G1H392J
		50	4700pF	±5%	0.85	445-1334-1-ND	3.21	18.96	54.69	445-1334-2-ND	4,000	52.51/M	C2012C0G1H472J
		50	5600pF	±5%	0.85	445-2684-1-ND ***NEW!***	3.85	22.75	65.63	445-2684-2-ND ***NEW!***	4,000	63.00/M	C2012C0G1H562J
		50	6800pF	±5%	1.25	445-1335-1-ND	4.49	26.53	76.52	445-1335-2-ND	2,000	73.46/M	C2012C0G1H682J
		50	8200pF	±5%	1.25	445-2685-1-ND ***NEW!***	4.40	26.00	75.00	445-2685-2-ND ***NEW!***	2,000	72.00/M	C2012C0G1H822J
		50	10000pF	±5%	1.25	445-1336-1-ND	7.47	44.14	127.31	445-1336-2-ND	2,000	122.22/M	C2012C0G1H103J
		25	3900pF	±5%	0.6	445-2676-1-ND ***NEW!***	3.30	19.50	56.25	445-2676-2-ND ***NEW!***	4,000	54.00/M	C2012C0G1E392J
		25	4700pF	±5%	0.6	445-2677-1-ND ***NEW!***	3.30	19.50	56.25	445-2677-2-ND ***NEW!***	4,000	54.00/M	C2012C0G1E472J
		25	5600pF	±5%	0.6	445-2678-1-ND ***NEW!***	3.85	22.75	65.63	445-2678-2-ND ***NEW!***	4,000	63.00/M	C2012C0G1E562J
		25	6800pF	±5%	0.6	445-2679-1-ND ***NEW!***	3.85	22.75	65.63	445-2679-2-ND ***NEW!***	4,000	63.00/M	C2012C0G1E682J
		25	8200pF	±5%	0.6	445-2680-1-ND ***NEW!***	4.40	26.00	75.00	445-2680-2-ND ***NEW!***	4,000	72.00/M	C2012C0G1E822J
		25	10000pF	±5%	0.6	445-2672-1-ND ***NEW!***	4.40	26.00	75.00	445-2672-2-ND ***NEW!***	4,000	72.00/M	C2012C0G1E103J
		25	15000pF	±5%	0.85	445-2673-1-ND ***NEW!***	6.60	39.00	112.50	445-2673-2-ND ***NEW!***	4,000	108.00/M	C2012C0G1E153J
		25	22000pF	±5%	1.25	445-2674-1-ND ***NEW!***	6.60	39.00	112.50	445-2674-2-ND ***NEW!***	2,000	108.00/M	C2012C0G1E223J
		25	33000pF	±5%	1.25	445-2675-1-ND ***NEW!***	8.80	52.00	150.00	445-2675-2-ND ***NEW!***	2,000	144.00/M	C2012C0G1E333J
	X7R	250	1000pF	±10%	0.85	445-2277-1-ND	1.28	7.57	21.83	445-2277-2-ND	4,000	21.00/M	C2012X7R2E102K
		250	2200pF	±10%	0.85	445-2278-1-ND	1.60	9.46	27.28	445-2278-2-ND	4,000	26.00/M	C2012X7R2E222K
		250	4700pF	±10%	0.85	445-2279-1-ND	1.60	9.46	27.28	445-2279-2-ND	4,000	26.00/M	C2012X7R2E472K
		250	10000pF	±10%	1.25	445-2280-1-ND	2.40	14.19	40.93	445-2280-2-ND	2,000	39.00/M	C2012X7R2E103K
		250	22000pF	±10%	1.25	445-2281-1-ND	2.40	14.19	40.93	445-2281-2-ND	2,000	39.00/M	C2012X7R2E223K
		100	1000pF	±10%	0.85	445-1337-1-ND	.88	5.20	15.00	445-1337-2-ND	4,000	14.40/M	C2012X7R2A102K
		100	1000pF	±20%	0.85	445-1338-1-ND	1.19	7.02	20.25	445-1338-2-ND	4,000	19.44/M	C2012X7R2A102M
		100	2200pF	±10%	0.85	445-1339-1-ND	.88	5.20	15.00	445-1339-2-ND	4,000	14.40/M	C2012X7R2A222K
		100	2200pF	±20%	0.85	445-1340-1-ND	1.15	6.81	19.65	445-1340-2-ND	4,000	18.87/M	C2012X7R2A222M
		100	4700pF	±10%	0.85	445-1341-1-ND	.96	5.67	16.37	445-1341-2-ND	4,000	15.72/M	C2012X7R2A472K
		100	4700pF	±20%	0.85	445-1342-1-ND	1.19	7.02	20.25	445-1342-2-ND	4,000	19.44/M	C2012X7R2A472M
		100	10000pF	±10%	0.85	445-1343-1-ND	1.25	7.38	21.28	445-1343-2-ND	4,000	20.43/M	C2012X7R2A103K
		100	10000pF	±20%	0.85	445-1344-1-ND	1.19	7.02	20.25	445-1344-2-ND	4,000	19.44/M	C2012X7R2A103M
		100	22000pF	±10%	1.25	445-1345-1-ND	1.44	8.52	24.56	445-1345-2-ND	2,000	23.58/M	C2012X7R2A223K
		100	22000pF	±20%	1.25	445-1346-1-ND	1.39	8.19	23.63	445-1346-2-ND	2,000	22.68/M	C2012X7R2A223M
		100	47000pF	±10%	1.25	445-2276-1-ND	3.20	18.92	54.56	445-2276-2-ND	2,000	52.00/M	C2012X7R2A473K
		100	0.1µF	±10%	1.25	445-1418-1-ND	4.48	26.48	76.39	445-1418-2-ND	2,000	73.33/M	C2012X7R2A104K
		50	1000pF	±10%	0.6	445-1347-1-ND	.83	4.90	14.14	445-1347-2-ND	4,000	13.58/M	C2012X7R1H102K
		50	10000pF	±10%	0.6	445-1348-1-ND	.75	4.41	12.73	445-1348-2-ND	4,000	12.23/M	C2012X7R1H103K
		50	0.1µF	±10%	0.85	445-1349-1-ND	1.58	9.33	26.93	445-1349-2-ND	2,000	25.85/M	C2012X7R1H104K
		50	0.22µF	±10%	1.25	445-1350-1-ND	2.29	13.56	39.11	445-1350-2-ND	2,000	37.55/M	C2012X7R1H224K
		25	0.1µF	±10%	0.85	445-1351-1-ND	1.58	9.33	26.93	445-1351-2-ND	2,000	25.85/M	C2012X7R1E104K
		25	0.22µF	±10%	1.25	445-1352-1-ND	2.29	13.56	39.11	445-1352-2-ND	2,000	37.55/M	C2012X7R1E224K
		25	0.47µF	±10%	1.25	445-1353-1-ND	3.41	20.18	58.20	445-1353-2-ND	2,000	55.87/M	C2012X7R1E474K
		25	1.0µF	±10%	1.25	445-1354-1-ND	5.94	35.10	101.25	445-1354-2-ND	2,000	97.20/M	C2012X7R1E105K
		16	0.22µF	±10%	1.25	445-1355-1-ND	2.29	13.56	39.11	445-1355-2-ND	2,000	37.55/M	C2012X7R1C224K
		16	0.33µF	±10%	1.25	445-1356-1-ND	3.20	18.92	54.56	445-1356-2-ND	2,000	52.38/M	C2012X7R1C334K
		16	0.47µF	±10%	1.25	445-1357-1-ND	3.41	20.18	58.20	445-1357-2-ND	2,000	55.87/M	C2012X7R1C474K
		16	1.0µF	±10%	1.25	445-1358-1-ND	3.41	20.15	58.13	445-1358-2-ND	2,000	55.80/M	C2012X7R1C105K
		16	2.2µF	±10%	1.25	445-1420-1-ND	5.98	35.35	101.98	445-1420-2-ND	2,000	97.90/M	C2012X7R1C225K
		10	1.0µF	±10%	0.85	445-1359-1-ND	3.41	20.15	58.13	445-1359-2-ND	2,000	55.80/M	C2012X7R1A105K
		10	4.7µF	±20%	1.25	445-1605-1-ND	6.00	35.43	102.19	445-1605-2-ND	2,000	98.10/M	C2012X7R1A475M
	X5R	25	1.0µF	±10%	1.25	445-1419-1-ND	4.01	23.67	68.27	445-1419-2-ND	2,000	65.54/M	C2012X5R1E105K
		10	1.0µF	±10%	0.85	445-1587-1-ND	3.96	23.40	67.50	445-1587-2-ND	4,000	64.80/M	C2012X5R1A105K/0.85
		10	2.2µF	±10%	0.85	445-1588-1-ND	7.48	44.20	127.50	445-1588-2-ND	4,000	122.40/M	C2012X5R1A225K/0.85
		6.3	4.7µF	±10%	1.25	445-1421-1-ND	5.50	32.50	93.75	445-1421-2-ND	2,000	90.00/M	C2012X5R0J475K
		6.3	4.7µF	±20%	1.25	445-1362-1-ND	5.50	32.50	93.75	445-1362-2-ND	2,000	90.00/M	C2012X5R0J475M
		6.3	10µF	±20%	1.25	445-1363-1-ND	7.02	41.47	119.63	445-1363-2-ND	2,000	114.84/M	C2012X5R0J106M
		6.3	22µF	±20%	1.25	445-1422-1-ND	14.85	87.75	253.13	445-1422-2-ND	2,000	243.00/M	C2012X5R0J226M
	Y5V	50	1.0µF	+80/-20%	1.25	445-1364-1-ND	1.82	10.73	30.94	445-1364-2-ND	2,000	29.70/M	C2012Y5V1H105Z
		25	1.0µF	+80/-20%	0.85	445-1590-1-ND	1.82	10.73	30.94	445-1590-2-ND	4,000	29.70/M	C2012Y5V1E105Z/0.85
		25	2.2µF	+80/-20%	1.25	445-1366-1-ND	3.85	22.75	65.63	445-1366-2-ND	2,000	63.00/M	C2012Y5V1E225Z
		16	1.0µF	+80/-20%	0.85	445-1589-1-ND	1.82	10.73	30.94	445-1589-2-ND	4,000	29.70/M	C2012Y5V1C105Z/0.85
		16	2.2µF	+80/-20%	1.25	445-1368-1-ND	3.73	22.07	63.66	445-1368-2-ND	2,000	61.11/M	C2012Y5V1C225Z
		16	4.7µF	+80/-20%	1.25	445-1369-1-ND	6.83	40.35	116.40	445-1369-2-ND	2,000	111.75/M	C2012Y5V1C475Z
		10	4.7µF	+80/-20%	1.25	445-1370-1-ND	7.04	41.60	120.00	445-1370-2-ND	2,000	115.20/M	C2012Y5V1A475Z
		10	10µF	+80/-20%	1.25	445-1371-1-ND	10.45	61.75	178.13	445-1371-2-ND	2,000	171.00/M	C2012Y5V1A106Z
		6.3	10µF	+80/-20%	1.25	445-1372-1-ND	8.91	52.65	151.88	445-1372-2-ND	2,000	145.80/M	C2012Y5V0J106Z
		6.3	22µF	+80/-20%	1.25	445-1373-1-ND	17.82	105.30	303.75	445-1373-2-ND	2,000	291.60/M	C2012Y5V0J226Z
	X8R	100	0.022µF	±10%	1.25	445-2515-1-ND ***NEW!***	2.48	14.63	42.19	445-2515-2-ND ***NEW!***	2,000	41.00/M	C2012X8R2A223K
		50	0.10µF	±10%	1.25	445-2514-1-ND ***NEW!***	1.65	9.75	28.13	445-2514-2-ND ***NEW!***	2,000	27.00/M	C2012X8R1H104K
		25	0.22µF	±10%	1.25	445-2512-1-ND ***NEW!***	3.30	19.50	56.25	445-2512-2-ND ***NEW!***	2,000	54.00/M	C2012X8R1E224K
		25	0.33µF	±10%	1.25	445-2513-1-ND ***NEW!***	3.30	19.50	56.25	445-2513-2-ND ***NEW!***	2,000	54.00/M	C2012X8R1E334K
	SL	10	33000pF	±5%	0.6	445-2687-1-ND ***NEW!***	11.00	65.00	187.50	445-2687-2-ND ***NEW!***	4,000	180.00/M	C2012SL1A333J
		10	47000pF	±5%	0.85	445-2688-1-ND ***NEW!***	11.00	65.00	187.50	445-2688-2-ND ***NEW!***	4,000	180.00/M	C2012SL1A473J
		10	68000pF	±5%	1.25	445-2689-1-ND ***NEW!***	13.20	78.00	225.00	445-2689-2-ND ***NEW!***	2,000	216.00/M	C2012SL1A683J
		10	0.1µF	±5%	1.25	445-2686-1-ND ***NEW!***	13.20	78.00	225.00	445-2686-2-ND ***NEW!***	2,000	216.00/M	C2012SL1A104J
1206	C0G (NP0)	630	100pF	±5%	0.6	445-2336-1-ND	3.20	18.92	54.56	445-2336-2-ND	4,000	52.00/M	C3216C0G2J101J
		630	150pF	±5%	0.6	445-2337-1-ND	3.20	18.92	54.56	445-2337-2-ND	4,000	52.00/M	C3216C0G2J151J
		630	220pF	±5%	0.6	445-2338-1-ND	3.20	18.92	54.56	445-2338-2-ND	4,000	52.00/M	C3216C0G2J221J
		630	330pF	±5%	0.6	445-2339-1-ND	3.20	18.92	54.56	445-2339-2-ND	4,000	52.00/M	C3216C0G2J331J
		630	470pF	±5%	0.85	445-2340-1-ND	3.20	18.92	54.56	445-2340-2-ND	4,000	52.00/M	C3216C0G2J471J
		630	680pF	±5%	0.85	445-2341-1-ND	3.20	18.92	54.56	445-2341-2-ND	4,000	52.00/M	C3216C0G2J681J
		630	1000pF	±5%	0.85	445-2342-1-ND	3.20	18.92	54.56	445-2342-2-ND	4,000	52.00/M	C3216C0G2J102J
		630	1500pF	±5%	1.15	445-2343-1-ND	4.00	23.65	68.21	445-2343-2-ND	2,000	65.00/M	C3216C0G2J152J
		630	2200pF	±5%	1.15	445-2344-1-ND	4.80	28.37	81.84	445-2344-2-ND	2,000	79.00/M	C3216C0G2J222J
		630	3300pF	±5%	1.6	445-2345-1-ND	5.60	33.10	95.49	445-2345-2-ND	2,000	92.00/M	C3216C0G2J332J

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		TDK Part No.
							10	100	500		Size	Pricing	
1206	C0G (NP0)	250	3300pF	±5%	0.85	445-2332-1-ND	3.20	18.92	54.56	445-2332-2-ND	4,000	52.00/M	C3216C0G2E332J
		250	4700pF	±5%	1.15	445-2333-1-ND	4.80	28.37	81.84	445-2333-2-ND	2,000	79.00/M	C3216C0G2E472J
		250	6800pF	±5%	1.6	445-2334-1-ND	6.40	37.83	109.13	445-2334-2-ND	2,000	105.00/M	C3216C0G2E682J
		250	8200pF	±5%	1.6	445-2335-1-ND	7.20	42.56	122.78	445-2335-2-ND	2,000	118.00/M	C3216C0G2E822J
		100	4700pF	±5%	0.85	445-2329-1-ND	4.00	23.65	68.21	445-2329-2-ND	4,000	65.00/M	C3216C0G2A472J
		100	6800pF	±5%	1.15	445-2330-1-ND	5.60	33.10	95.49	445-2330-2-ND	2,000	92.00/M	C3216C0G2A682J
		100	10000pF	±5%	1.15	445-2331-1-ND	6.40	37.83	109.13	445-2331-2-ND	2,000	105.00/M	C3216C0G2A103J
		50	4700pF	±5%	0.6	445-1374-1-ND	4.27	25.22	72.75	445-1374-2-ND	4,000	69.84/M	C3216C0G1H472J
		50	10000pF	±5%	0.85	445-1375-1-ND	9.90	58.50	168.75	445-1375-2-ND	2,000	162.00/M	C3216C0G1H103J
		50	15000pF	±5%	1.15	445-2698-1-ND ***NEW!***	8.80	52.00	150.00	445-2698-2-ND ***NEW!***	2,000	144.00/M	C3216C0G1H153J
		50	22000pF	±5%	1.15	445-1376-1-ND	13.20	78.00	225.00	445-1376-2-ND	2,000	216.00/M	C3216C0G1H223J
		50	33000pF	±5%	1.6	445-2699-1-ND ***NEW!***	12.10	71.50	206.25	445-2699-2-ND ***NEW!***	2,000	198.00/M	C3216C0G1H333J
		25	8200pF	±5%	0.6	445-2697-1-ND ***NEW!***	5.50	32.50	93.75	445-2697-2-ND ***NEW!***	4,000	90.00/M	C3216C0G1E822J
		25	10000pF	±5%	0.6	445-2690-1-ND ***NEW!***	5.50	32.50	93.75	445-2690-2-ND ***NEW!***	4,000	90.00/M	C3216C0G1E103J
		25	15000pF	±5%	0.6	445-2692-1-ND ***NEW!***	8.80	52.00	150.00	445-2692-2-ND ***NEW!***	4,000	144.00/M	C3216C0G1E153J
		25	22000pF	±5%	0.6	445-2693-1-ND ***NEW!***	8.80	52.00	150.00	445-2693-2-ND ***NEW!***	4,000	144.00/M	C3216C0G1E223J
		25	33000pF	±5%	0.85	445-2694-1-ND ***NEW!***	12.10	71.50	206.25	445-2694-2-ND ***NEW!***	4,000	198.00/M	C3216C0G1E333J
		25	47000pF	±5%	1.15	445-2695-1-ND ***NEW!***	14.30	84.50	243.75	445-2695-2-ND ***NEW!***	2,000	234.00/M	C3216C0G1E473J
		25	68000pF	±5%	1.6	445-2696-1-ND ***NEW!***	14.30	84.50	243.75	445-2696-2-ND ***NEW!***	2,000	234.00/M	C3216C0G1E683J
		25	0.1µF	±5%	1.6	445-2691-1-ND ***NEW!***	16.50	97.50	281.25	445-2691-2-ND ***NEW!***	2,000	270.00/M	C3216C0G1E104J
	X7R	630	1000pF	±10%	1.15	445-2288-1-ND	4.00	23.65	68.21	445-2288-2-ND	2,000	65.00/M	C3216X7R2J102K
		630	2200pF	±10%	1.15	445-2289-1-ND	4.00	23.65	68.21	445-2289-2-ND	2,000	65.00/M	C3216X7R2J222K
		630	4700pF	±10%	1.15	445-2290-1-ND	4.00	23.65	68.21	445-2290-2-ND	2,000	65.00/M	C3216X7R2J472K
		630	10000pF	±10%	1.15	445-2291-1-ND	4.80	28.37	81.84	445-2291-2-ND	2,000	79.00/M	C3216X7R2J103K
		630	22000pF	±10%	1.3	445-2292-1-ND	6.40	37.83	109.13	445-2292-2-ND	2,000	105.00/M	C3216X7R2J223K
		250	22000pF	±10%	1.15	445-2285-1-ND	3.20	18.92	54.56	445-2285-2-ND	2,000	52.00/M	C3216X7R2E223K
		250	47000pF	±10%	1.6	445-2286-1-ND	4.00	23.65	68.21	445-2286-2-ND	2,000	65.00/M	C3216X7R2E473K
		250	0.1µF	±10%	1.6	445-2287-1-ND	4.80	28.37	81.84	445-2287-2-ND	2,000	79.00/M	C3216X7R2E104K
		100	47000pF	±10%	1.15	445-2282-1-ND	4.00	23.65	68.21	445-2282-2-ND	2,000	65.00/M	C3216X7R2A473K
		100	0.1µF	±10%	1.6	445-1377-1-ND	6.94	40.98	118.22	445-1377-2-ND	2,000	113.49/M	C3216X7R2A104K
		100	0.1µF	±20%	1.6	445-1378-1-ND	6.50	38.41	110.79	445-1378-2-ND	2,000	106.36/M	C3216X7R2A104M
		100	0.22µF	±10%	1.15	445-2283-1-ND	6.40	37.83	109.13	445-2283-2-ND	2,000	105.00/M	C3216X7R2A224K
		100	0.47µF	±10%	1.6	445-2284-1-ND	8.00	47.29	136.41	445-2284-2-ND	2,000	131.00/M	C3216X7R2A474K
		50	0.22µF	±10%	1.6	445-1379-1-ND	3.52	20.81	60.02	445-1379-2-ND	2,000	57.62/M	C3216X7R1H224K
		50	0.47µF	±10%	1.6	445-1380-1-ND	4.32	25.54	73.67	445-1380-2-ND	2,000	70.72/M	C3216X7R1H474K
		50	1.0µF	±10%	1.6	445-1423-1-ND	4.11	24.31	70.13	445-1423-2-ND	2,000	67.32/M	C3216X7R1H105K
		25	1.0µF	±10%	0.85	445-1592-1-ND	4.51	26.65	76.88	445-1592-2-ND	4,000	73.80/M	C3216X7R1E105K/0.85
		25	2.2µF	±10%	1.6	445-1382-1-ND	6.63	39.17	112.99	445-1382-2-ND	2,000	108.47/M	C3216X7R1E225K
		25	4.7µF	±10%	1.6	445-1606-1-ND	5.99	35.37	102.04	445-1606-2-ND	2,000	97.96/M	C3216X7R1E475K
		25	4.7µF	±20%	1.6	445-1424-1-ND	12.56	74.21	214.07	445-1424-2-ND	2,000	205.51/M	C3216X7R1E475M
		16	1.0µF	±10%	0.85	445-1591-1-ND	3.85	22.75	65.63	445-1591-2-ND	4,000	63.00/M	C3216X7R1C105K/0.85
		16	2.2µF	±10%	1.6	445-1384-1-ND	7.98	47.16	136.05	445-1384-2-ND	2,000	130.61/M	C3216X7R1C225K
		16	4.7µF	±10%	1.6	445-1385-1-ND	12.77	75.46	217.67	445-1385-2-ND	2,000	208.96/M	C3216X7R1C475K
		16	4.7µF	±20%	1.6	445-1425-1-ND	11.85	70.01	201.96	445-1425-2-ND	2,000	193.88/M	C3216X7R1C475M
		16	10µF	±20%	1.6	445-1601-1-ND	8.45	49.93	144.04	445-1601-2-ND	2,000	138.28/M	C3216X7R1C106M
		10	10µF	±20%	1.6	445-1602-1-ND	14.85	87.75	253.13	445-1602-2-ND	2,000	243.00/M	C3216X7R1A106M
	X5R	16	10µF	±20%	1.6	445-1426-1-ND	12.67	74.88	216.00	445-1426-2-ND	2,000	207.36/M	C3216X5R1C106M
		10	4.7µF	±10%	1.6	445-1386-1-ND	10.46	61.79	178.24	445-1386-2-ND	2,000	171.11/M	C3216X5R1A475K
		10	10µF	±20%	1.6	445-1387-1-ND	4.95	29.25	84.38	445-1387-2-ND	2,000	81.00/M	C3216X5R1A106M
		6.3	10µF	±10%	1.6	445-1388-1-ND	4.95	29.25	84.38	445-1388-2-ND	2,000	81.00/M	C3216X5R0J106K
		6.3	10µF	±20%	1.6	445-1389-1-ND	16.50	97.50	281.25	445-1389-2-ND	2,000	270.00/M	C3216X5R0J106M
		6.3	22µF	±20%	1.6	445-1427-1-ND	19.80	117.00	337.50	445-1427-2-ND	2,000	324.00/M	C3216X5R0J226M
		6.3	47µF	±20%	1.6	445-1428-1-ND	39.60	234.00	675.00	445-1428-2-ND	2,000	648.00/M	C3216X5R0J476M
	Y5V	16	4.7µF	+80/-20%	0.85	445-1594-1-ND	5.72	33.80	97.50	445-1594-2-ND	4,000	93.60/M	C3216Y5V1C475Z/0.85
		16	10µF	+80/-20%	1.6	445-1391-1-ND	9.35	55.25	159.38	445-1391-2-ND	2,000	153.00/M	C3216Y5V1C106Z
		10	10µF	+80/-20%	0.85	445-1593-1-ND	9.35	55.25	159.38	445-1593-2-ND	4,000	153.00/M	C3216Y5V1A106Z/0.85
		10	22µF	+80/-20%	1.6	445-1393-1-ND	17.71	104.65	301.88	445-1393-2-ND	2,000	289.80/M	C3216Y5V1A226Z
		6.3	47µF	+80/-20%	1.6	445-1394-1-ND	39.60	234.00	675.00	445-1394-2-ND	2,000	648.00/M	C3216Y5V0J476Z
	X8R	100	0.047µF	±10%	0.85	445-2520-1-ND ***NEW!***	6.60	39.00	112.50	445-2520-2-ND ***NEW!***	4,000	108.00/M	C3216X8R2A473K
		100	0.10µF	±10%	1.15	445-2521-1-ND ***NEW!***	6.60	39.00	112.50	445-2521-2-ND ***NEW!***	2,000	108.00/M	C3216X8R2A104K
		100	0.15µF	±10%	1.6	445-2522-1-ND ***NEW!***	6.60	39.00	112.50	445-2522-2-ND ***NEW!***	2,000	108.00/M	C3216X8R2A154K
		50	0.22µF	±10%	1.15	445-2518-1-ND ***NEW!***	6.60	39.00	112.50	445-2518-2-ND ***NEW!***	2,000	108.00/M	C3216X8R1H224K
		50	0.47µF	±10%	1.6	445-2519-1-ND ***NEW!***	6.60	39.00	112.50	445-2519-2-ND ***NEW!***	2,000	108.00/M	C3216X8R1H474K
		25	0.47µF	±10%	0.85	445-2516-1-ND ***NEW!***	6.60	39.00	112.50	445-2516-2-ND ***NEW!***	4,000	108.00/M	C3216X8R1E474K
		25	1.0µF	±10%	1.6	445-2517-1-ND ***NEW!***	6.60	39.00	112.50	445-2517-2-ND ***NEW!***	2,000	108.00/M	C3216X8R1E105K
	SL	10	0.15µF	±5%	1.15	445-2700-1-ND ***NEW!***	16.50	97.50	281.25	445-2700-2-ND ***NEW!***	2,000	270.00/M	C3216SL1A154J
		10	0.22µF	±5%	1.6	445-2701-1-ND ***NEW!***	16.50	97.50	281.25	445-2701-2-ND ***NEW!***	2,000	270.00/M	C3216SL1A224J
1210	C0G (NP0)	630	4700pF	±5%	1.6	445-2352-1-ND	24.01	141.86	409.22	445-2352-2-ND	2,000	393.00/M	C3225C0G2J472J
		630	6800pF	±5%	2.0	445-2353-1-ND	24.01	141.86	409.22	445-2353-2-ND	1,000	393.00	C3225C0G2J682J
		250	10000pF	±5%	1.6	445-2350-1-ND	32.01	189.15	545.63	445-2350-2-ND	2,000	524.00/M	C3225C0G2E103J
		250	15000pF	±5%	2.0	445-2351-1-ND	32.01	189.15	545.63	445-2351-2-ND	1,000	524.00	C3225C0G2E153J
		100	15000pF	±5%	1.25	445-2346-1-ND	24.01	141.86	409.22	445-2346-2-ND	2,000	393.00/M	C3225C0G2A153J
		100	22000pF	±5%	1.6	445-2347-1-ND	24.01	141.86	409.22	445-2347-2-ND	2,000	393.00/M	C3225C0G2A223J
		100	33000pF	±5%	2.0	445-2348-1-ND	32.01	189.15	545.63	445-2348-2-ND	1,000	524.00	C3225C0G2A333J
		100	47000pF	±5%	2.3	445-2349-1-ND	32.01	189.15	545.63	445-2349-2-ND	1,000	524.00	C3225C0G2A473J
		50	22000pF	±5%	1.25	445-2703-1-ND ***NEW!***	22.00	130.00	375.00	445-2703-2-ND ***NEW!***	2,000	360.00/M	C3225C0G1H223J
		50	33000pF	±5%	1.25	445-2704-1-ND ***NEW!***	27.50	162.50	468.75	445-2704-2-ND ***NEW!***	2,000	450.00/M	C3225C0G1H333J
		50	39000pF	±5%	2.0	445-1603-1-ND	32.34	191.10	551.25	445-1603-2-ND	2,000	529.20/M	C3225C0G1H393J
		50	47000pF	±5%	2.0	445-2705-1-ND ***NEW!***	27.50	162.50	468.75	445-2705-2-ND ***NEW!***	1,000	450.00	C3225C0G1H473J
		50	68000pF	±5%	2.0	445-2706-1-ND ***NEW!***	33.00	195.00	562.50	445-2706-2-ND ***NEW!***	1,000	540.00	C3225C0G1H683J
		50	0.1µF	±5%	2.5	445-2702-1-ND ***NEW!***	33.00	195.00	562.50	445-2702-2-ND ***NEW!***	1,000	540.00	C3225C0G1H104J
	X7R	630	47000pF	±10%	2.0	445-2297-1-ND	12.80	75.66	218.25	445-2297-2-ND	1,000	210.00	C3225X7R2J473K
		250	0.1µF	±10%	2.0	445-2295-1-ND	9.60	56.75	163.69	445-2295-2-ND	1,000	157.00	C3225X7R2E104K
		250	0.22µF	±10%	2.0	445-2296-1-ND	12.80	75.66	218.25	445-2296-2-ND	1,000	210.00	C3225X7R2E224K
		100	0.47µF	±20%	2.0	445-1395-1-ND	21.13	124.84	360.11	445-1395-2-ND	1,000	345.71	C3225X7R2A474M
		100	0.47µF	±10%	2.0	445-2293-1-ND	12.80	75.66	218.25	445-2293-2-ND	1,000	210.00	C3225X7R2A474K
		100	1.0µF	±20%	2.0	445-1429-1-ND	24.75	146.25	421.88	445-1429-2-ND	1,000	405.00	C3225X7R2A105M
		100	1.0µF	±10%	2.0	445-2294-1-ND	16.01	94.58	272.81	445-2294-2-ND	1,000	262.00	C3225X7R2A105K
		50	1.0µF	±10%	1.6	445-1430-1-ND	10.89	64.35	185.63	445-1430-2-ND	1,000	178.20	C3225X7R1H105K
		50	1.0µF	±20%	1.6	445-1396-1-ND	10.67	63.05	181.88	445-1396-2-ND	1,000	174.60	C3225X7R1H105M
		50	2.2µF	±10%	2.5	445-1431-1-ND	11.88	70.20	202.50	445-1431-2-ND	1,000	194.40	C3225X7R1H225K
		50	3.3µF	±20%	2.5	445-1432-1-ND	14.85	87.75	253.13	445-1432-2-ND	1,000	243.00	C3225X7R1H335M
		25	2.2µF	±20%	1.6	445-1397-1-ND	17.93	105.92	305.55	445-1397-2-ND	1,000	293.33	C3225X7R1E225M
		25	4.7µF	±10%	2.0	445-1433-1-ND	21.56	127.41	367.54	445-1433-2-ND	1,000	352.84	C3225X7R1E475K
		25	4.7µF	±20%	2.0	445-1398-1-ND	21.13	124.84	360.11	445-1398-2-ND	1,000	345.71	C3225X7R1E475M
		25	10µF	±20%	2.5	445-1434-1-ND	23.96	141.57	408.38	445-1434-2-ND	1,000	392.04	C3225X7R1E106M
		16	4.7µF	±10%	1.6	445-1435-1-ND	19.38	114.54	330.41	445-1435-2-ND	2,000	317.20/M	C3225X7R1C475K
		16	10µF	±20%	2.0	445-1399-1-ND	16.42	97.05	279.94	445-1399-2-ND	1,000	268.74	C3225X7R1C106M
	X5R	16	10µF	±20%	2.0	445-1400-1-ND	16.42	97.05	279.94	445-1400-2-ND	1,000	268.74	C3225X5R1C106M
		16	22µF	±20%	2.5	445-1436-1-ND	13.86	81.90	236.25	445-1436-2-ND	1,000	226.80	C3225X5R1C226M
		10	10µF	±10%	2.0	445-1401-1-ND	17.33	102.38	295.31	445-1401-2-ND	1,000	283.50	C3225X5R1A106K
		10	10µF	±20%	2.0	445-1402-1-ND	18.15	107.25	309.38	445-1402-2-ND	1,000	297.00	C3225X5R1A106M
		10	22µF	±20%	2.3	445-1403-1-ND	33.00	195.00	562.50	445-1403-2-ND	1,000	540.00	C3225X5R1A226M
		6.3	22µF	±20%	2.0	445-1595-1-ND	31.90	188.50	543.75	445-1595-2-ND	1,000	522.00	C3225X5R0J226M/2.00
		6.3	47µF	±20%	2.5	445-1405-1-ND	44.00	260.00	750.00	445-1405-2-ND	1,000	720.00	C3225X5R0J476M
		6.3	100µF	±20%	2.5	445-1437-1-ND	79.20	468.00	1350.00	445-1437-2-ND	1,000	1296.00	C3225X5R0J107M
	Y5V	25	10µF	+80/-20%	1.6	445-1598-1-ND	11.88	70.20	202.50	445-1598-2-ND	2,000	194.40/M	C3225Y5V1E106Z/1.60
		16	10µF	+80/-20%	1.15	445-1597-1-ND	9.90	58.50	168.75	445-1597-2-ND	2,000	162.00/M	C3225Y5V1C106Z/1.15
		10	22µF	+80/-20%	2.0	445-1408-1-ND	23.10	136.50	393.75	—	—	—	C3225Y5V1A226Z

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Dim. T (mm)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	TDK Part No.
1210	Y5V	10	22µF	+80/-20%	1.15	445-1596-1-ND	27.50	162.50	468.75	445-1596-2-ND	2,000	450.00/M	C3225Y5V1A226Z/1.15
		10	47µF	+80/-20%	2.0	445-1409-1-ND	66.00	390.00	1125.00	445-1409-2-ND	1,000	1080.00	C3225Y5V1A476Z
		6.3	100µF	+80/-20%	2.5	445-1410-1-ND	72.77	429.98	1240.31	445-1410-2-ND	1,000	1190.70	C3225Y5V0J107Z
	X8R	25	2.2µF	±10%	2.0	445-2523-1-ND ***NEW!***	13.20	78.00	225.00	445-2523-2-ND ***NEW!***	1,000	216.00	C3225X8R1E225K
		25	3.3µF	±10%	2.5	445-2524-1-ND ***NEW!***	1.28	7.57	21.83	445-2524-2-ND ***NEW!***	1,000	21.00	C3225X8R1E335K
1808	C0G (NP0)	3000	10pF	±1pF	0.85	445-2363-1-ND	15.68	92.63	267.19	445-2363-2-ND	1,000	257.00	C4520C0G3F100F
		3000	12pF	±10%	0.85	445-2364-1-ND	15.68	92.63	267.19	445-2364-2-ND	1,000	257.00	C4520C0G3F120K
		3000	15pF	±10%	1.1	445-2365-1-ND	15.68	92.63	267.19	445-2365-2-ND	1,000	257.00	C4520C0G3F150K
		3000	18pF	±10%	1.1	445-2366-1-ND	15.68	92.63	267.19	445-2366-2-ND	1,000	257.00	C4520C0G3F180K
		3000	22pF	±10%	1.1	445-2367-1-ND	15.68	92.63	267.19	445-2367-2-ND	1,000	257.00	C4520C0G3F220K
		3000	27pF	±10%	1.6	445-2368-1-ND	15.68	92.63	267.19	445-2368-2-ND	1,000	257.00	C4520C0G3F270K
		3000	33pF	±10%	1.6	445-2369-1-ND	15.68	92.63	267.19	445-2369-2-ND	1,000	257.00	C4520C0G3F330K
		3000	39pF	±10%	1.6	445-2370-1-ND	15.68	92.63	267.19	445-2370-2-ND	1,000	257.00	C4520C0G3F390K
		3000	47pF	±10%	1.6	445-2371-1-ND	15.68	92.63	267.19	445-2371-2-ND	1,000	257.00	C4520C0G3F470K
		3000	56pF	±10%	2.0	445-2372-1-ND	15.68	92.63	267.19	445-2372-2-ND	1,000	257.00	C4520C0G3F560K
		3000	68pF	±10%	2.0	445-2373-1-ND	15.68	92.63	267.19	445-2373-2-ND	1,000	257.00	C4520C0G3F680K
		3000	82pF	±10%	2.0	445-2374-1-ND	15.68	92.63	267.19	445-2374-2-ND	1,000	257.00	C4520C0G3F820K
		3000	100pF	±10%	2.0	445-2375-1-ND	15.68	92.63	267.19	445-2375-2-ND	1,000	257.00	C4520C0G3F101K
	X7R	2000	470pF	±10%	1.3	445-2385-1-ND	18.03	106.52	307.28	445-2385-2-ND	1,000	295.00	C4520X7R3D471K
		2000	1000pF	±10%	1.3	445-2386-1-ND	18.03	106.52	307.28	445-2386-2-ND	1,000	295.00	C4520X7R3D102K
		1000	470pF	±10%	1.3	445-2383-1-ND	18.03	106.52	307.28	445-2383-2-ND	1,000	295.00	C4520X7R3A471K
		1000	1000pF	±10%	1.3	445-2384-1-ND	18.03	106.52	307.28	445-2384-2-ND	1,000	295.00	C4520X7R3A102K
1812	C0G (NP0)	3000	100pF	±10%	1.6	445-2376-1-ND	19.59	115.78	333.99	445-2376-2-ND	1,000	321.00	C4532C0G3F101K
		3000	120pF	±10%	1.6	445-2377-1-ND	19.59	115.78	333.99	445-2377-2-ND	1,000	321.00	C4532C0G3F121K
		3000	150pF	±10%	1.6	445-2378-1-ND	19.59	115.78	333.99	445-2378-2-ND	1,000	321.00	C4532C0G3F151K
		3000	180pF	±10%	1.6	445-2379-1-ND	19.59	115.78	333.99	445-2379-2-ND	1,000	321.00	C4532C0G3F181K
		3000	220pF	±10%	2.0	445-2380-1-ND	20.38	120.41	347.34	445-2380-2-ND	1,000	333.00	C4532C0G3F221K
		3000	270pF	±10%	2.3	445-2381-1-ND	23.51	138.94	—	445-2381-2-ND	500	192.50	C4532C0G3F271K
		3000	330pF	±10%	2.5	445-2382-1-ND	23.51	138.94	400.78	445-2382-2-ND	1,000	299.00	C4532C0G3F331K
		630	10000pF	±5%	1.6	445-2360-1-ND	64.02	378.30	1091.25	445-2360-2-ND	1,000	1048.00	C4532C0G2J103J
		630	15000pF	±5%	2.5	445-2361-1-ND	64.02	378.30	—	445-2361-2-ND	500	524.00	C4532C0G2J153J
		630	22000pF	±5%	3.2	445-2362-1-ND	64.02	378.30	—	445-2362-2-ND	500	524.00	C4532C0G2J223J
		250	22000pF	±5%	1.6	445-2357-1-ND	56.02	331.01	954.84	445-2357-2-ND	1,000	917.00	C4532C0G2E223J
		250	33000pF	±5%	2.0	445-2358-1-ND	56.02	331.01	954.84	445-2358-2-ND	1,000	917.00	C4532C0G2E333J
		250	47000pF	±5%	3.2	445-2359-1-ND	56.02	331.01	—	445-2359-2-ND	500	458.50	C4532C0G2E473J
		100	47000pF	±5%	2.0	445-2354-1-ND	40.01	236.44	682.03	445-2354-2-ND	1,000	655.00	C4532C0G2A473J
		100	68000pF	±5%	2.5	445-2355-1-ND	48.02	283.73	—	445-2355-2-ND	500	393.00	C4532C0G2A683J
		100	0.1µF	±5%	3.2	445-2356-1-ND	48.02	283.73	—	445-2356-2-ND	500	393.00	C4532C0G2A104J
		50	47000pF	±5%	1.6	445-2710-1-ND ***NEW!***	38.50	227.50	656.25	445-2710-2-ND ***NEW!***	1,000	630.00	C4532C0G1H473J
		50	68000pF	±5%	1.6	445-2711-1-ND ***NEW!***	44.00	260.00	750.00	445-2711-2-ND ***NEW!***	1,000	720.00	C4532C0G1H683J
		50	0.1µF	±5%	2.0	445-2707-1-ND ***NEW!***	44.00	260.00	750.00	445-2707-2-ND ***NEW!***	1,000	720.00	C4532C0G1H104J
		50	0.15µF	±5%	2.5	445-2708-1-ND ***NEW!***	49.50	292.50	—	445-2708-2-ND ***NEW!***	500	405.00	C4532C0G1H154J
		50	0.22µF	±5%	3.2	445-2709-1-ND ***NEW!***	49.50	292.50	—	445-2709-2-ND ***NEW!***	500	405.00	C4532C0G1H224J
	X7R	2000	2200pF	±10%	1.3	445-2389-1-ND	19.59	115.78	333.99	445-2389-2-ND	1,000	321.00	C4532X7R3D222K
		1000	4700pF	±10%	1.6	445-2387-1-ND	19.59	115.78	333.99	445-2387-2-ND	1,000	321.00	C4532X7R3A472K
		1000	10000pF	±10%	2.0	445-2388-1-ND	19.59	115.78	333.99	445-2388-2-ND	1,000	321.00	C4532X7R3A103K
		630	0.1µF	±10%	2.3	445-2300-1-ND	24.01	141.86	—	445-2300-2-ND	500	196.50	C4532X7R2J104K
		250	0.22µF	±10%	2.3	445-2298-1-ND	24.01	141.86	—	445-2298-2-ND	500	196.50	C4532X7R2E224K
		250	0.47µF	±10%	2.3	445-2299-1-ND	32.01	189.15	—	445-2299-2-ND	500	262.00	C4532X7R2E474K
		100	1.0µF	±10%	2.3	445-1438-1-ND	24.01	141.86	—	445-1438-2-ND	500	196.43	C4532X7R2A105K
		100	1.0µF	±20%	2.3	445-1411-1-ND	37.35	220.68	—	445-1411-2-ND	500	305.55	C4532X7R2A105M
		100	2.2µF	±20%	2.3	445-1439-1-ND	32.01	189.15	—	445-1439-2-ND	500	261.90	C4532X7R2A225M
		50	2.2µF	±20%	1.6	445-1447-1-ND	32.01	189.15	545.63	445-1447-2-ND	1,000	523.80	C4532X7R1H225M
		50	4.7µF	±20%	2.3	445-1448-1-ND	33.66	198.90	573.75	445-1448-2-ND	1,000	550.80	C4532X7R1H475M
		50	6.8µF	±20%	2.5	445-1449-1-ND	63.36	374.40	—	445-1449-2-ND	500	518.40	C4532X7R1H685M
		25	4.7µF	±20%	1.6	445-1446-1-ND	24.75	146.25	—	445-1446-2-ND	1,000	405.00	C4532X7R1E475M
		25	10µF	±20%	2.5	445-1445-1-ND	45.88	271.12	—	445-1445-2-ND	500	375.39	C4532X7R1E106M
		25	22µF	±20%	2.5	445-1607-1-ND	36.09	213.23	—	445-1607-2-ND	500	295.25	C4532X7R1E226M
		16	22µF	±20%	2.5	445-1442-1-ND	46.95	277.42	—	445-1442-2-ND	500	384.12	C4532X7R1C226M
	X5R	25	22µF	±20%	2.5	445-1444-1-ND	44.50	262.93	—	445-1444-2-ND	500	364.05	C4532X5R1E226M
		16	33µF	±20%	2.5	445-1443-1-ND	57.72	341.06	—	445-1443-2-ND	500	472.23	C4532X5R1C336M
		10	22µF	±20%	2.0	445-1412-1-ND	42.68	252.20	—	445-1412-2-ND	500	349.20	C4532X5R1A226M
		10	33µF	±20%	2.0	445-1441-1-ND	54.45	321.75	—	445-1441-2-ND	500	445.50	C4532X5R1A336M
		10	47µF	±20%	2.8	445-1440-1-ND	67.22	397.22	—	445-1440-2-ND	500	549.99	C4532X5R1A476M
		6.3	100µF	±20%	2.8	445-1413-1-ND	93.50	552.50	—	445-1413-2-ND	500	765.00	C4532X5R0J107M
	Y5V	10	100µF	+80/-20%	2.5	445-1414-1-ND	88.00	520.00	—	445-1414-2-ND	500	720.00	C4532Y5V1A107Z
2220	X7R	630	0.22µF	±10%	2.3	445-2305-1-ND	64.02	378.30	—	445-2305-2-ND	500	524.00	C5750X7R2J224K
		250	0.47µF	±10%	2.3	445-2303-1-ND	56.02	331.01	—	445-2303-2-ND	500	458.50	C5750X7R2E474K
		250	1.0µF	±10%	2.3	445-2304-1-ND	64.02	378.30	—	445-2304-2-ND	500	524.00	C5750X7R2E105K
		100	1.0µF	±10%	2.3	445-2301-1-ND	56.02	331.01	—	445-2301-2-ND	500	458.50	C5750X7R2A105K
		100	2.2µF	±20%	2.3	445-2302-1-ND	64.02	378.30	—	445-2302-2-ND	500	524.00	C5750X7R2A225M
		100	4.7µF	±20%	2.3	445-1450-1-ND	80.03	472.88	—	445-1450-2-ND	500	654.75	C5750X7R2A475M
		50	10µF	±20%	2.3	445-1454-1-ND	45.05	266.18	—	445-1454-2-ND	500	368.55	C5750X7R1H106M
		25	22µF	±20%	2.5	445-1453-1-ND	76.82	453.96	—	445-1453-2-ND	500	628.56	C5750X7R1E226M
	X5R	16	47µF	±20%	2.3	445-1452-1-ND	104.57	617.89	—	445-1452-2-ND	500	855.54	C5750X5R1C476M
		10	68µF	±20%	2.3	445-1451-1-ND	90.34	533.81	—	445-1451-2-ND	500	739.13	C5750X5R1A686M

CKG Series 2-Chip Piled Multilayer Ceramic Capacitors

Features: • No polarity • Twice the capacitance is obtainable on a single capacitor space • Unique construction provides high reliability • Metal caps absorb stress from thermal and mechanical shocks, ensuring excellent performance on aluminum circuit substrates • Low ESR and ESL promises excellent characteristics for high frequency switching power supply **Applications:** • Smoothing circuits, temperature variable applications • Maintenance free power supplies, DC to DC converters and automotive **Operating Temperature:** • X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

Series	Dim. (mm) L	W	E
CKG45N	5.5	4.0	1.4
CKG57N	6.5	5.5	1.9

RoHS COMPLIANT

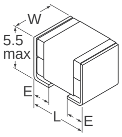

Series	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	TDK Part No.
CKG45N	X7R	630	0.22µF	±20%	445-2396-1-ND	108.68	642.20	1852.50	445-2396-2-ND	1778.00	CKG45NX7R2J224M
		250	0.47µF	±20%	445-2395-1-ND	93.01	549.58	1585.31	445-2395-2-ND	1522.00	CKG45NX7R2E474M
		100	2.2µF	±20%	445-2394-1-ND	102.41	605.15	1745.63	445-2394-2-ND	1676.00	CKG45NX7R2A225M
		50	3.3µF	±20%	445-2393-1-ND	97.19	574.28	1656.56	445-2393-2-ND	1590.00	CKG45NX7R1H335M
		25	10µF	±20%	445-2392-1-ND	94.05	555.75	1603.13	445-2392-2-ND	1539.00	CKG45NX7R1E106M
		16	22µF	±20%	445-2391-1-ND	104.50	617.50	1781.25	445-2391-2-ND	1710.00	CKG45NX7R1C226M
	X5R	50	10µF	±20%	445-1660-1-ND	57.86	505.40	1995.00	445-1660-2-ND	2394.00	CKG45NX5R1H106M
		16	47µF	±20%	445-2390-1-ND	114.95	679.25	1959.38	445-2390-2-ND	1881.00	CKG45NX5R1C476M
CKG57N	X7R	630	0.47µF	±20%	445-2401-1-ND	104.50	617.50	1781.25	445-2401-2-ND	1710.00	CKG57NX7R2J474M
		250	1.0µF	±20%	445-2400-1-ND	109.73	648.38	1870.31	445-2400-2-ND	1796.00	CKG57NX7R2E105M
		100	2.2µF	±20%	445-1658-1-ND	49.59	433.20	1710.00	445-1658-2-ND	2052.00	CKG57NX7R2A225M
		100	4.7µF	±20%	445-1659-1-ND	52.69	460.28	1816.88	445-1659-2-ND	2180.25	CKG57NX7R2A475M
		50	10µF	±20%	445-2399-1-ND	114.95	679.25	1959.38	445-2399-2-ND	1881.00	CKG57NX7R1H106M
		25	22µF	±20%	445-2398-1-ND	114.95	679.25	1959.38	445-2398-2-ND	1881.00	CKG57NX7R1E226M
		16	33µF	±20%	445-2397-1-ND	125.40	741.00	2137.50	445-2397-2-ND	2052.00	CKG57NX7R1C336M
	X5R	50	22µF	±20%	445-1655-1-ND	52.90	462.08	1824.00	445-1655-2-ND	2188.80	CKG57NX5R1H226M
		25	47µF	±20%	445-1657-1-ND	61.16	534.28	2109.00	445-1657-2-ND	2530.80	CKG57NX5R1E476M
		16	100µF	±20%	445-1656-1-ND	70.25	613.70	2422.50	445-1656-2-ND	2907.00	CKG57NX5R1C107M

TDK CKC Series 2-Element Multilayer Ceramic Chip Capacitor Array

Features: • Two capacitors are fitted in a single product, contributing to reduced installation costs • The electrostatic capacity range and shape are designed to meet the demands of the cellular phone market • Reduced crosstalk (signal interference) between the terminals

Applications: • They are suited for circuits that require multiple identical capacitors in a particular area of a board, such as interfaces and high-frequency noise bypass circuits on cellular phones, interfaces including I/O cables on PCs and peripherals, as well as CPU bus lines

Operating Temperatures: • C0G (NP0) and X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

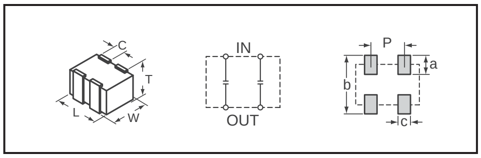

Case Size	Dimensions (mm)							
	L	W	T	C	P	a	b	c
0504	1.37±0.15	1.0±0.15	0.9 max.	0.36±0.1	0.64±0.1	0.45	1.20	0.30
0805	2.0±0.15	1.25±0.15	1.0 max.	0.45±0.1	1.0±0.1	0.60	1.60	0.50

Case Size	Type	WV	Capacitance	Tolerance	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		TDK
		DC			Part No.	10	100	500	Part No.	Size	Pricing	Part No.
0504	C0G (NP0)	50	10pF	±1pF	445-1858-1-ND	.65	5.56	23.16	445-1858-2-ND	4,000	25.95/M	CKCM25C0G1H100F
		50	15pF	±10%	445-1859-1-ND	.65	5.56	23.16	445-1859-2-ND	4,000	25.95/M	CKCM25C0G1H150K
		50	22pF	±10%	445-1860-1-ND	.65	5.56	23.16	445-1860-2-ND	4,000	25.95/M	CKCM25C0G1H220K
		50	33pF	±10%	445-1861-1-ND	.65	5.56	23.16	445-1861-2-ND	4,000	25.95/M	CKCM25C0G1H330K
		50	47pF	±10%	445-1862-1-ND	.65	5.56	23.16	445-1862-2-ND	4,000	25.95/M	CKCM25C0G1H470K
		50	68pF	±10%	445-1863-1-ND	.65	5.56	23.16	445-1863-2-ND	4,000	25.95/M	CKCM25C0G1H680K
		50	100pF	±10%	445-1864-1-ND	.65	5.56	23.16	445-1864-2-ND	4,000	25.95/M	CKCM25C0G1H101K
	X7R	50	1000pF	±20%	445-1865-1-ND	.65	5.56	23.16	445-1865-2-ND	4,000	25.95/M	CKCM25X7R1H102M
		50	2200pF	±20%	445-1866-1-ND	.65	5.56	23.16	445-1866-2-ND	4,000	25.95/M	CKCM25X7R1H222M
		25	4700pF	±20%	445-1867-1-ND	.65	5.56	23.16	445-1867-2-ND	4,000	25.95/M	CKCM25X7R1E472M
		16	10000pF	±20%	445-1868-1-ND	.65	5.56	23.16	445-1868-2-ND	4,000	25.95/M	CKCM25X7R1C103M
	X5R	10	22000pF	±20%	445-1869-1-ND	.75	6.41	26.73	445-1869-2-ND	4,000	29.94/M	CKCM25X5R1A223M
		10	47000pF	±20%	445-1870-1-ND	.75	6.41	26.73	445-1870-2-ND	4,000	29.94/M	CKCM25X5R1A473M
		6.3	.10µF	±20%	445-1871-1-ND	.75	6.41	26.73	445-1871-2-ND	4,000	29.94/M	CKCM25X5R0J104M
		6.3	.22µF	±20%	445-1872-1-ND	1.15	9.83	40.98	445-1872-2-ND	4,000	45.90/M	CKCM25X5R0J224M
		6.3	.47µF	±20%	445-1873-1-ND	1.15	9.83	40.98	445-1873-2-ND	4,000	45.90/M	CKCM25X5R0J474M
		6.3	1.0µF	±20%	445-1874-1-ND	1.15	9.83	40.98	445-1874-2-ND	4,000	45.90/M	CKCM25X5R0J105M
0805	C0G (NP0)	50	10pF	±1pF	445-1875-1-ND	.90	7.70	32.06	445-1875-2-ND	4,000	35.91/M	CKCL22C0G1H100F
		50	15pF	±10%	445-1876-1-ND	.90	7.70	32.06	445-1876-2-ND	4,000	35.91/M	CKCL22C0G1H150K
		50	22pF	±10%	445-1877-1-ND	.90	7.70	32.06	445-1877-2-ND	4,000	35.91/M	CKCL22C0G1H220K
		50	33pF	±10%	445-1878-1-ND	.90	7.70	32.06	445-1878-2-ND	4,000	35.91/M	CKCL22C0G1H330K
		50	47pF	±10%	445-1879-1-ND	.90	7.70	32.06	445-1879-2-ND	4,000	35.91/M	CKCL22C0G1H470K
		50	68pF	±10%	445-1880-1-ND	.90	7.70	32.06	445-1880-2-ND	4,000	35.91/M	CKCL22C0G1H680K
		50	100pF	±10%	445-1881-1-ND	.90	7.70	32.06	445-1881-2-ND	4,000	35.91/M	CKCL22C0G1H101K
		50	150pF	±10%	445-1882-1-ND	1.00	8.55	35.63	445-1882-2-ND	4,000	39.90/M	CKCL22C0G1H151K
		50	220pF	±10%	445-1883-1-ND	1.00	8.55	35.63	445-1883-2-ND	4,000	39.90/M	CKCL22C0G1H221K
		50	330pF	±10%	445-1884-1-ND	1.10	9.41	39.19	445-1884-2-ND	4,000	43.89/M	CKCL22C0G1H331K
		50	470pF	±10%	445-1885-1-ND	1.10	9.41	39.19	445-1885-2-ND	4,000	43.89/M	CKCL22C0G1H471K
	X7R	50	1000pF	±20%	445-1886-1-ND	.90	7.70	32.06	445-1886-2-ND	4,000	35.91/M	CKCL22X7R1H102M
		50	2200pF	±20%	445-1887-1-ND	.90	7.70	32.06	445-1887-2-ND	4,000	35.91/M	CKCL22X7R1H222M
		50	4700pF	±20%	445-1888-1-ND	.90	7.70	32.06	445-1888-2-ND	4,000	35.91/M	CKCL22X7R1H472M
		50	10000pF	±20%	445-1889-1-ND	.90	7.70	32.06	445-1889-2-ND	4,000	35.91/M	CKCL22X7R1H103M
		25	22000pF	±20%	445-1890-1-ND	.90	7.70	32.06	445-1890-2-ND	4,000	35.91/M	CKCL22X7R1E223M
		25	47000pF	±20%	445-1891-1-ND	1.00	8.55	35.63	445-1891-2-ND	4,000	39.90/M	CKCL22X7R1E473M
		16	.10µF	±20%	445-1892-1-ND	1.00	8.55	35.63	445-1892-2-ND	4,000	39.90/M	CKCL22X7R1C104M
	X5R	10	.22µF	±20%	445-1893-1-ND	1.15	9.83	40.98	445-1893-2-ND	4,000	45.90/M	CKCL22X5R1A224M
		6.3	.47µF	±20%	445-1894-1-ND	1.15	9.83	40.98	445-1894-2-ND	4,000	45.90/M	CKCL22X5R0J474M
		6.3	1.0µF	±20%	445-1895-1-ND	1.25	10.69	44.54	445-1895-2-ND	4,000	49.89/M	CKCL22X5R0J105M

CKC Series 4-Element Multilayer Ceramic Chip Capacitor Array

Features: • The CKC Series are integrated, single-chip, 4-element capacitors that are highly effective in EMC countermeasure applications • They are particularly effective when used as a bypass for digital signal line noise, thereby preventing EMC around connectors

Applications: • For use as a bypass for digital and analog signal line noise generated by telecommunications equipment and other common electronic circuits

Operating Temperatures: • C0G (NP0) and X7R: -55°C ~ 125°C • X5R: -55°C ~ 85°C

Dimensions in mm

0805 Series

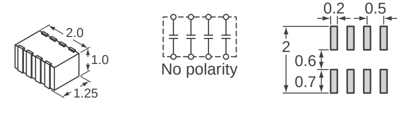

1206 Series

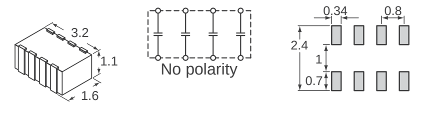

Case Size	Type	WV	Capacitance	Tolerance	Digi-Key	Cut Tape Pricing			Digi-Key	Tape and Reel		TDK
		DC			Part No.	10	100	500	Part No.	Size	Pricing	Part No.
0805	C0G (NP0)	50	10pF	±1pF	445-1822-1-ND	.90	7.70	32.06	445-1822-2-ND	4,000	35.91/M	CKCL44C0G1H100F
		50	15pF	±10%	445-1823-1-ND	.90	7.70	32.06	445-1823-2-ND	4,000	35.91/M	CKCL44C0G1H150K
		50	22pF	±10%	445-1824-1-ND	.90	7.70	32.06	445-1824-2-ND	4,000	35.91/M	CKCL44C0G1H220K
		50	33pF	±10%	445-1825-1-ND	.90	7.70	32.06	445-1825-2-ND	4,000	35.91/M	CKCL44C0G1H330K
		50	47pF	±10%	445-1826-1-ND	.90	7.70	32.06	445-1826-2-ND	4,000	35.91/M	CKCL44C0G1H470K
		50	68pF	±10%	445-1827-1-ND	.90	7.70	32.06	445-1827-2-ND	4,000	35.91/M	CKCL44C0G1H680K
		50	100pF	±10%	445-1828-1-ND	.90	7.70	32.06	445-1828-2-ND	4,000	35.91/M	CKCL44C0G1H101K
		50	150pF	±10%	445-1829-1-ND	.90	7.70	32.06	445-1829-2-ND	4,000	35.91/M	CKCL44C0G1H151K
	X7R	50	220pF	±20%	445-1830-1-ND	.90	7.70	32.06	445-1830-2-ND	4,000	35.91/M	CKCL44X7R1H221M
		50	470pF	±20%	445-1831-1-ND	.90	7.70	32.06	445-1831-2-ND	4,000	35.91/M	CKCL44X7R1H471M
		50	1000pF	±20%	445-1832-1-ND	.90	7.70	32.06	445-1832-2-ND	4,000	35.91/M	CKCL44X7R1H102M
		50	2200pF	±20%	445-1833-1-ND	.90	7.70	32.06	445-1833-2-ND	4,000	35.91/M	CKCL44X7R1H222M
		50	4700pF	±20%	445-1834-1-ND	.90	7.70	32.06	445-1834-2-ND	4,000	35.91/M	CKCL44X7R1H472M
		25	10000pF	±20%	445-1835-1-ND	.90	7.70	32.06	445-1835-2-ND	4,000	35.91/M	CKCL44X7R1E103M
		16	22000pF	±20%	445-1836-1-ND	1.00	8.55	35.63	445-1836-2-ND	4,000	39.90/M	CKCL44X7R1C223M
	X5R	10	47000pF	±20%	445-1837-1-ND	1.00	8.55	35.63	445-1837-2-ND	4,000	39.90/M	CKCL44X5R1A473M
		6.3	.10µF	±20%	445-1838-1-ND	1.15	9.83	40.98	445-1838-2-ND	4,000	45.90/M	CKCL44X5R0J104M
1206	C0G (NP0)	50	10pF	±1pF	445-1839-1-ND	1.00	8.55	35.63	445-1839-2-ND	2,000	39.90/M	CKCA43C0G1H100F
		50	15pF	±10%	445-1840-1-ND	1.00	8.55	35.63	445-1840-2-ND	2,000	39.90/M	CKCA43C0G1H150K
		50	22pF	±10%	445-1841-1-ND	1.00	8.55	35.63	445-1841-2-ND	2,000	39.90/M	CKCA43C0G1H220K
		50	33pF	±10%	445-1842-1-ND	1.00	8.55	35.63	445-1842-2-ND	2,000	39.90/M	CKCA43C0G1H330K
		50	47pF	±10%	445-1843-1-ND	1.00	8.55	35.63	445-1843-2-ND	2,000	39.90/M	CKCA43C0G1H470K
		50	68pF	±10%	445-1844-1-ND	1.00	8.55	35.63	445-1844-2-ND	2,000	39.90/M	CKCA43C0G1H680K
		50	100pF	±10%	445-1845-1-ND	1.00	8.55	35.63	445-1845-2-ND	2,000	39.90/M	CKCA43C0G1H101K
		50	150pF	±10%	445-1846-1-ND	1.00	8.55	35.63	445-1846-2-ND	2,000	39.90/M	CKCA43C0G1H151K
		50	220pF	±10%	445-1847-1-ND	1.00	8.55	35.63	445-1847-2-ND	2,000	39.90/M	CKCA43C0G1H221K
		50	330pF	±10%	445-1848-1-ND	1.10	9.41	39.19	445-1848-2-ND	2,000	43.89/M	CKCA43C0G1H331K
		50	470pF	±10%	445-1849-1-ND	1.10	9.41	39.19	445-1849-2-ND	2,000	43.89/M	CKCA43C0G1H471K
	X7R	50	470pF	±20%	445-1850-1-ND	1.00	8.55	35.63	445-1850-2-ND	2,000	39.90/M	CKCA43X7R1H471M
		50	1000pF	±20%	445-1851-1-ND	1.00	8.55	35.63	445-1851-2-ND	2,000	39.90/M	CKCA43X7R1H102M
		50	2200pF	±20%	445-1852-1-ND	1.00	8.55	35.63	445-1852-2-ND	2,000	39.90/M	CKCA43X7R1H222M
		50	4700pF	±20%	445-1853-1-ND	1.00	8.55	35.63	445-1853-2-ND	2,000	39.90/M	CKCA43X7R1H472M
		50	10000pF	±20%	445-1854-1-ND	1.00	8.55	35.63	445-1854-2-ND	2,000	39.90/M	CKCA43X7R1H103M
		50	22000pF	±20%	445-1855-1-ND	1.15	9.83	40.98	445-1855-2-ND	2,000	45.89/M	CKCA43X7R1H223M
		25	47000pF	±20%	445-1856-1-ND	1.15	9.83	40.98	445-1856-2-ND	2,000	45.89/M	CKCA43X7R1E473M
		16	.10µF	±20%	445-1857-1-ND	1.25	10.69	44.54	445-1857-2-ND	2,000	49.88/M	CKCA43X7R1C104M

TDK Ceramic Disk Capacitors — Safety Standard Approved

CD Series — X1Y1

Reinforced Insulation
Type Class 2 High Dielectric

Features:

- Smaller than conventional capacitors
- Flame resistant reinforced outer insulation prevents fires, electrical shock and other potential hazards
- Compliant with the safety standards of 11 countries (conforms to European standards in accordance with IEC Publication 384-14 Version 2)
- Meets European Class II (reinforced insulation) Safety Standards VDE, SEV, SEMKO, BS. Since it is rated at a withstand voltage of AC 4000V, it can be used in a single unit configurations with European Class II devices

Temperature Range: -25°C ~ 85°C

CD Series — X1Y1 Dimensions in mm

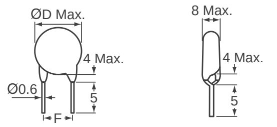

INTERNATIONALLY CERTIFIED STATUS IEC60384-14 2nd. ed. EN132400 Approved

Safety Standard	Symbols	Standard No. of IEC	Standard Number	Temperature Characteristics	Insulation Sub-Class	Rated Voltage Eac (V)	Approval Report Number Japan	Taiwan	Xiamen
BSI	BS415	IEC 60065 IEC 60384-14 2nd. ed.	BS EN 60065: 1998 (BS415: 1998) BS EN132400: 1995 (EN132400:1994)	B, E	X1, Y1	250	226495	226495	226495
VDE	VDE	IEC 60384-14 2nd. ed.	EN132400	B, E	X1 Y1	400 250	138526	138550	124321
SEV	S	IEC 60384-14 2nd. ed.	EN132400	B, E	X1 Y1	400 250	01.1508	01.1508	99.7 70564
SEMKO	S	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	0139185/01-02	0139185/01-02	9945094
NEMKO	N	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	P01101987	P01101987	P99102682
DEMKO	D	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	310959-01	310959-01	99-04087
FIMKO	FI	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	FI 17415	FI 17415	14237
IMQ	IMQ	IEC 60384-14 2nd. ed.	EN132400	B, E	X1, Y1	250	V3691	V3691	V3691
SAA	—	IEC 60065	AS3250	B, E	—	400	6268	6268	6268
UL	UL	—	UL 1414	B, E	(X, Y)	250	E37861	E37861	E37861
CSA	SP	—	C22.2 No. 0 and No. 1	B, E	(X, Y)	250	LR35801	LR65972	201723

Certificate numbers shall be changed owing to the revisions of the related standards

Voltage	Capacitance Temperature Characteristics	Capacitance (pF)	Capacitance Tolerance	Dimensions (mm) øD max.	F	Digi-Key Part No.	Pricing 5	10	100	TDK Part No.
250VAC	B (±10%)	100	K (±10%)	7	10+2, -1	445-2402-ND	.77	1.13	8.09	CD70-B2GA101KYNS
		150	K (±10%)	7	10+2, -1	445-2403-ND	.86	1.27	9.05	CD70-B2GA151KYNS
		220	K (±10%)	8.5	10+2, -1	445-2404-ND	.98	1.44	10.27	CD85-B2GA221KYNS
		330	K (±10%)	9	10+2, -1	445-2405-ND	1.01	1.49	10.66	CD90-B2GA331KYNS
		390	K (±10%)	9	10+2, -1	445-2406-ND	1.05	1.55	11.07	CD90-B2GA391KYNS
		470	K (±10%)	9.5	10+2, -1	445-2407-ND	1.11	1.63	11.64	CD95-B2GA471KYNS
	E (+20, -55%)	680	M (±20%)	7.5	10+2, -1	445-2408-ND	.71	1.05	7.52	CD75-E2GA681MYNS
		1000	M (±20%)	8.5	10+2, -1	445-2409-ND	.80	1.18	8.42	CD85-E2GA102MYNS
		1500	M (±20%)	10	10+2, -1	445-2410-ND	.95	1.40	9.99	CD10-E2GA152MYNS
		2200	M (±20%)	11.5	10+2, -1	445-2411-ND	1.17	1.73	12.36	CD12-E2GA222MYNS
		3300	M (±20%)	13.5	10+2, -1	445-2412-ND	1.59	2.34	16.72	CD14-E2GA332MYNS
		3900	M (±20%)	14.5	10+2, -1	445-2413-ND	1.76	2.60	18.57	CD15-E2GA392MYNS
		4700	M (±20%)	15.5	10+2, -1	445-2414-ND	2.03	2.99	21.37	CD16-E2GA472MYNS

CS Series — X1Y2

Basic Insulation
Type Class 2 High Dielectric

Features:

- Smaller than conventional capacitors
- Flame resistant reinforced outer insulation prevents fires, electrical shock and other potential hazards
- Compliant with the safety standards of 11 countries (conforms to European standards in accordance with IEC Publication 384-14 Version 2)

Temperature Range: -25°C ~ 125° C

CS Series — X1Y2 Dimensions in mm

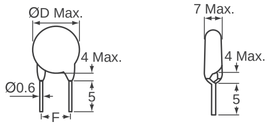

INTERNATIONALLY CERTIFIED STATUS IEC60384-14 2nd. ed. EN132400 Approved

Safety Standard	Symbols	Standard No. of IEC	Standard Number	Temperature Characteristics	Insulation Sub-Class	Rated Voltage Eac (V)	Approval Report Number Japan	Taiwan	Xiamen
BSI	BS415	IEC 60065 IEC 60384-14 2nd. ed.	BS EN 60065: 1998 (BS415: 1998) BS EN132400: 1995 (EN132400:1994)	B, E, F	X1, Y2	250	226494	226494	226494
VDE	VDE	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	138559	138560	12006
SEV	S	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	01.15.05	01.15.05	99.7 70564
SEMKO	S	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	0139186/01-02	0139186/01-02	9945094
NEMKO	N	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	P01101988	P01101988	P99102682
DEMKO	D	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	310966-01	310966-01	99-04087
FIMKO	FI	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	FI 17416	FI 17416	14237
IMQ	IMQ	IEC 60384-14 2nd. ed.	EN132400	B, E, F	X1, Y2	250	V3692	V3692	V3691
SAA	—	IEC 60065	AS3250	B, E, F	—	400	6268	6268	6268
UL	UL	—	UL 1414	B, E, F	(X, Y)	250	E37861	E37861	E37861
CSA	SP	—	C22.2 No. 0 and No. 1	B, E, F	(X, Y)	250	LR35801	LR65972	201723

Certificate numbers shall be changed owing to the revisions of the related standards

Voltage	Capacitance Temperature Characteristics	Capacitance (pF)	Capacitance Tolerance	Dimensions (mm) øD max.	F	Digi-Key Part No.	Pricing 5	10	100	TDK Part No.
250VAC	B (±10%)	100	K (±10%)	7	7.5 ± 1.5	445-2415-ND	.75	1.11	7.93	CS70-B2GA101KYNS
		150	K (±10%)	7	7.5 ± 1.5	445-2416-ND	.73	1.07	7.65	CS70-B2GA151KYNS
		220	K (±10%)	7	7.5 ± 1.5	445-2417-ND	.69	1.02	7.31	CS70-B2GA221KYNS
		330	K (±10%)	8.5	7.5 ± 1.5	445-2418-ND	.87	1.28	9.16	CS85-B2GA331KYNS
		470	K (±10%)	8.5	7.5 ± 1.5	445-2419-ND	.79	1.16	8.27	CS85-B2GA471KYNS
		680	K (±10%)	9.5	7.5 ± 1.5	445-2420-ND	.90	1.32	9.46	CS95-B2GA681KYNS
		1000	K (±10%)	10	7.5 ± 1.5	445-2421-ND	1.02	1.50	10.74	CS10-B2GA102KYNS
	E (+20, -55%)	1000	M (±20%)	8	7.5 ± 1.5	445-2422-ND	.67	.99	7.07	CS80-E2GA102MYNS
		1500	M (±20%)	9	7.5 ± 1.5	445-2423-ND	.83	1.22	8.70	CS90-E2GA152MYNS
		2200	M (±20%)	10.5	7.5 ± 1.5	445-2424-ND	.78	1.14	8.17	CS11-E2GA222MYNS
		3300	M (±20%)	12.5	7.5 ± 1.5	445-2425-ND	1.24	1.83	13.06	CS13-E2GA332MYNS
		3900	M (±20%)	13.5	7.5 ± 1.5	445-2426-ND	1.59	2.34	16.71	CS14-E2GA392MYNS
		4700	M (±20%)	14.5	7.5 ± 1.5	445-2427-ND	1.59	2.34	16.75	CS15-E2GA472MYNS
	F (+30, -80%)	4700	M (±20%)	12	7.5 ± 1.5	445-2428-ND	1.21	1.78	12.73	CS12-F2GA472MYNS
		10000	M (±20%)	16.5	10 ± 2	445-2429-ND	2.36	3.47	24.81	CS17-F2GA103MYNS

YAGEO Surface Mount Ceramic Multilayer Chip Capacitors
– 0402, 0603, 0805, 1206, 1812

Features:
- High capacitance per unit volume
- For high frequency applications
- NiSn terminations

Applications:
- Consumer electronics
- Telecommunications
- Automotive
- Data processing

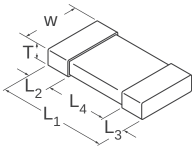

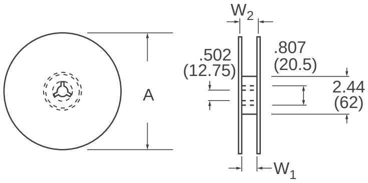

Dimensions: Inch (mm)

Case Size	L_1	W	T		L_2 and L_3		L_4
			Min.	Max.	Min.	Max.	Min.
0402	.040" (1.0mm)	.020" (0.5mm)	.018" (0.45mm)	.022" (0.55mm)	.008" (0.20mm)	.012" (0.30mm)	.016" (0.40mm)
0603	.063" (1.6mm)	.032" (0.8mm)	.029" (0.73mm)	.035" (0.87mm)	.010" (0.25mm)	.026" (0.65mm)	.016" (0.40mm)
0805	.079" (2.0mm)	.049" (1.25mm)	.020" (0.51mm)	.053" (1.35mm)	.010" (0.25mm)	.030" (0.75mm)	.022" (0.55mm)
1206	.126" (3.2mm)	.063" (1.6mm)	.020" (0.51mm)	.069" (1.75mm)	.010" (0.25mm)	030" (0.75mm)	.056" (1.40mm)
1812	.177" (4.5mm)	.126" (3.2mm)	.020" (0.51mm)	.072" (1.80mm)	.010" (0.25mm)	030" (0.75mm)	.088" (2.20mm)

Case Size	Tape Width Inch (mm)	A Inch (mm)	W1 Inch (mm)	W2 Max. Inch (mm)
0402, 0603 0805, 1206	.315" (8mm)	7.087" (180mm)	.331" (8.4mm)	.567" (14.4mm)
1812	.472" (12mm)	7.087" (180mm)	.488" (12.4mm)	.724" (18.4mm)

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Yageo Part No.
0402	NP0	50	.5pF	±0.25pF	311-1001-1-ND	.95	5.59	16.13	311-1001-2-ND	10,000	15.48/M	CC0402CRNPO9BNR50
		50	1.2pF	±0.25pF	311-1002-1-ND	.99	5.85	16.88	311-1002-2-ND	10,000	16.20/M	CC0402CRNPO9BN1R2
		50	1.5pF	±0.25pF	311-1003-1-ND	.99	5.85	16.88	311-1003-2-ND	10,000	16.20/M	CC0402CRNPO9BN1R5
		50	1.8pF	±0.25pF	311-1004-1-ND	2.06	12.16	35.06	311-1004-2-ND	10,000	33.66/M	CC0402CRNPO9BN1R8
		50	2.0pF	±0.25pF	311-1006-1-ND	2.25	13.27	38.27	311-1006-2-ND	10,000	36.74/M	CC0402CRNPO9BN2R0
		50	2.7pF	±0.25pF	311-1005-1-ND	.99	5.85	16.88	311-1005-2-ND	10,000	16.20/M	CC0402CRNPO9BN2R7
		50	3.0pF	±0.25pF	311-1007-1-ND	.99	5.85	16.88	311-1007-2-ND	10,000	16.20/M	CC0402CRNPO9BN3R0
		50	3.3pF	±0.25pF	311-1008-1-ND	.99	5.85	16.88	311-1008-2-ND	10,000	16.20/M	CC0402CRNPO9BN3R3
		50	5.0pF	±0.25pF	311-1010-1-ND	.99	5.85	16.88	311-1010-2-ND	10,000	16.20/M	CC0402CRNPO9BN5R0
		50	5.6pF	±0.5pF	311-1011-1-ND	2.32	13.69	39.49	311-1011-2-ND	10,000	37.91/M	CC0402DRNPO9BN5R6
		50	8.2pF	±0.5pF	311-1012-1-ND	.99	5.85	16.88	311-1012-2-ND	10,000	16.20/M	CC0402DRNPO9BN8R2
		50	9.1pF	±0.5pF	311-1013-1-ND	.70	4.25	14.00	311-1013-2-ND	10,000	18.00/M	CC0402DRNPO9BN9R1
		50	10pF	±5%	311-1014-1-ND	.77	4.55	13.13	311-1014-2-ND	10,000	12.60/M	CC0402JRNPO9BN100
		50	11pF	±5%	311-1015-1-ND	1.09	6.44	18.56	311-1015-2-ND	10,000	17.82/M	CC0402JRNPO9BN110
		50	12pF	±5%	311-1016-1-ND	.88	5.20	15.00	311-1016-2-ND	10,000	14.40/M	CC0402JRNPO9BN120
		50	15pF	±5%	311-1017-1-ND	.88	5.20	15.00	311-1017-2-ND	10,000	14.40/M	CC0402JRNPO9BN150
		50	22pF	±5%	311-1018-1-ND	.88	5.20	15.00	311-1018-2-ND	10,000	14.40/M	CC0402JRNPO9BN220
		50	27pF	±5%	311-1019-1-ND	.94	5.53	15.94	311-1019-2-ND	10,000	15.30/M	CC0402JRNPO9BN270
		50	33pF	±5%	311-1020-1-ND	.94	5.53	15.94	311-1020-2-ND	10,000	15.30/M	CC0402JRNPO9BN330
		50	39pF	±5%	311-1009-1-ND	.84	4.94	14.25	311-1009-2-ND	10,000	13.68/M	CC0402JRNPO9BN390
		50	47pF	±5%	311-1021-1-ND	.88	5.20	15.00	311-1021-2-ND	10,000	14.40/M	CC0402JRNPO9BN470
		50	56pF	±5%	311-1022-1-ND	.94	5.53	15.94	311-1022-2-ND	10,000	15.30/M	CC0402JRNPO9BN560
		50	82pF	±5%	311-1023-1-ND	.99	5.85	16.88	311-1023-2-ND	10,000	16.20/M	CC0402JRNPO9BN820
		50	100pF	±5%	311-1024-1-ND	.83	4.88	14.06	311-1024-2-ND	10,000	13.50/M	CC0402JRNPO9BN101
		50	150pF	±5%	311-1025-1-ND	.77	4.68	15.40	311-1025-2-ND	10,000	19.80/M	CC0402JRNPO9BN151
		25	220pF	±5%	311-1026-1-ND	.99	5.85	16.88	311-1026-2-ND	10,000	16.20/M	CC0402JRNPO8BN221
	X7R	50	220pF	±10%	311-1035-1-ND	.77	4.55	13.13	311-1035-2-ND	10,000	12.60/M	CC0402KRX7R9BB221
		50	330pF	±10%	311-1027-1-ND	.77	4.55	13.13	311-1027-2-ND	10,000	12.60/M	CC0402KRX7R9BB331
		50	470pF	±10%	311-1028-1-ND	.77	4.55	13.13	311-1028-2-ND	10,000	12.60/M	CC0402KRX7R9BB471
		50	560pF	±10%	311-1029-1-ND	.77	4.55	13.13	311-1029-2-ND	10,000	12.60/M	CC0402KRX7R9BB561
		50	680pF	±10%	311-1030-1-ND	.77	4.55	13.13	311-1030-2-ND	10,000	12.60/M	CC0402KRX7R9BB681
		50	1200pF	±10%	311-1031-1-ND	.77	4.55	13.13	311-1031-2-ND	10,000	12.60/M	CC0402KRX7R9BB122
		50	1500pF	±10%	311-1032-1-ND	.77	4.55	13.13	311-1032-2-ND	10,000	12.60/M	CC0402KRX7R9BB152
		50	2700pF	±10%	311-1033-1-ND	.77	4.55	13.13	311-1033-2-ND	10,000	12.60/M	CC0402KRX7R9BB272
		50	3300pF	±10%	311-1034-1-ND	.83	4.88	14.06	311-1034-2-ND	10,000	13.50/M	CC0402KRX7R9BB332
		50	1000pF	±10%	311-1036-1-ND	.83	4.88	14.06	311-1036-2-ND	10,000	13.50/M	CC0402KRX7R9BB102
		50	2200pF	±10%	311-1037-1-ND	.77	4.55	13.13	311-1037-2-ND	10,000	12.60/M	CC0402KRX7R9BB222
		25	3900pF	±10%	311-1038-1-ND	.83	4.88	14.06	311-1038-2-ND	10,000	13.50/M	CC0402KRX7R8BB392
		25	4700pF	±10%	311-1039-1-ND	.77	4.55	13.13	311-1039-2-ND	10,000	12.60/M	CC0402KRX7R8BB472
		16	5600pF	±10%	311-1040-1-ND	.77	4.55	13.13	311-1040-2-ND	10,000	12.60/M	CC0402KRX7R7BB562
		16	8200pF	±10%	311-1041-1-ND	.94	5.53	15.94	311-1041-2-ND	10,000	15.30/M	CC0402KRX7R7BB822
		16	10000pF	±10%	311-1042-1-ND	.77	4.55	13.13	311-1042-2-ND	10,000	12.60/M	CC0402KRX7R7BB103
	Y5V	16	22000pF	-20%/+80%	311-1043-1-ND	.86	5.07	14.63	311-1043-2-ND	10,000	14.04/M	CC0402ZRY5V7BB223
		16	33000pF	-20%/+80%	311-1044-1-ND	.88	5.20	15.00	311-1044-2-ND	10,000	14.40/M	CC0402ZRY5V7BB333
		16	10000pF	-20%/+80%	311-1045-1-ND	.74	4.36	12.56	311-1045-2-ND	10,000	12.06/M	CC0402ZRY5V7BB103
		16	47000pF	-20%/+80%	311-1046-1-ND	.94	5.53	15.94	311-1046-2-ND	10,000	15.30/M	CC0402ZRY5V7BB473
		16	.10µF	-20%/+80%	311-1047-1-ND	.88	5.20	15.00	311-1047-2-ND	10,000	14.40/M	CC0402ZRY5V7BB104
0603	NP0	50	.5pF	±0.25pF	311-1048-1-ND	.75	4.42	12.75	311-1048-2-ND	4,000	12.24/M	CC0603CRNPO9BNR50
		50	1.0pF	±0.25pF	311-1049-1-ND	.66	3.90	11.25	311-1049-2-ND	4,000	10.80/M	CC0603CRNPO9BN1R0
		50	1.5pF	±0.25pF	311-1050-1-ND	.66	3.90	11.25	311-1050-2-ND	4,000	10.80/M	CC0603CRNPO9BN1R5
		50	2.0pF	±0.25pF	311-1051-1-ND	.72	4.23	12.19	311-1051-2-ND	4,000	11.70/M	CC0603CRNPO9BN2R0
		50	3.0pF	±0.25pF	311-1052-1-ND	.72	4.23	12.19	311-1052-2-ND	4,000	11.70/M	CC0603CRNPO9BN3R0
		50	4.0pF	±0.25pF	311-1053-1-ND	.75	4.42	12.75	311-1053-2-ND	4,000	12.24/M	CC0603CRNPO9BN4R0
		50	5.0pF	±0.25pF	311-1054-1-ND	.72	4.23	12.19	311-1054-2-ND	4,000	11.70/M	CC0603CRNPO9BN5R0
		50	6.0pF	±0.5pF	311-1055-1-ND	.66	3.90	11.25	311-1055-2-ND	4,000	10.80/M	CC0603DRNPO9BN6R0
		50	7.0pF	±0.5pF	311-1056-1-ND	.75	4.42	12.75	311-1056-2-ND	4,000	12.24/M	CC0603DRNPO9BN7R0
		50	8.0pF	±0.5pF	311-1057-1-ND	.75	4.42	12.75	311-1057-2-ND	4,000	12.24/M	CC0603DRNPO9BN8R0
		50	10pF	±5%	311-1058-1-ND	.57	3.38	9.75	311-1058-2-ND	4,000	9.36/M	CC0603JRNPO9BN100
		50	12pF	±5%	311-1059-1-ND	.55	3.25	9.38	311-1059-2-ND	4,000	9.00/M	CC0603JRNPO9BN120
		50	15pF	±5%	311-1060-1-ND	.57	3.38	9.75	311-1060-2-ND	4,000	9.36/M	CC0603JRNPO9BN150
		50	18pF	±5%	311-1061-1-ND	.57	3.38	9.75	311-1061-2-ND	4,000	9.36/M	CC0603JRNPO9BN180
		50	22pF	±5%	311-1062-1-ND	.58	3.45	9.94	311-1062-2-ND	4,000	9.54/M	CC0603JRNPO9BN220
		50	27pF	±5%	311-1063-1-ND	.66	3.90	11.25	311-1063-2-ND	4,000	10.80/M	CC0603JRNPO9BN270
		50	33pF	±5%	311-1064-1-ND	.65	3.84	11.06	311-1064-2-ND	4,000	10.62/M	CC0603JRNPO9BN330

(Continued)

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Yageo Part No.
						10	100	500		Size	Pricing	
0603	NP0	50	47pF	±5%	311-1065-1-ND	.65	3.84	11.06	311-1065-2-ND	4,000	10.62/M	CC0603JRNPO9BN470
		50	56pF	±5%	311-1066-1-ND	.68	4.03	11.63	311-1066-2-ND	4,000	11.16/M	CC0603JRNPO9BN560
		50	68pF	±5%	311-1067-1-ND	.68	4.03	11.63	311-1067-2-ND	4,000	11.16/M	CC0603JRNPO9BN680
		50	82pF	±5%	311-1068-1-ND	.73	4.29	12.38	311-1068-2-ND	4,000	11.88/M	CC0603JRNPO9BN820
		50	100pF	±5%	311-1069-1-ND	.62	3.64	10.50	311-1069-2-ND	4,000	10.08/M	CC0603JRNPO9BN101
		50	120pF	±5%	311-1070-1-ND	.73	4.29	12.38	311-1070-2-ND	4,000	11.88/M	CC0603JRNPO9BN121
		50	150pF	±5%	311-1071-1-ND	.86	5.07	14.63	311-1071-2-ND	4,000	14.04/M	CC0603JRNPO9BN151
		50	180pF	±5%	311-1072-1-ND	.94	5.53	15.94	311-1072-2-ND	4,000	15.30/M	CC0603JRNPO9BN181
		50	220pF	±5%	311-1073-1-ND	1.02	6.05	17.44	311-1073-2-ND	4,000	16.74/M	CC0603JRNPO9BN221
		50	270pF	±5%	311-1074-1-ND	.70	4.25	14.00	311-1074-2-ND	4,000	15.00/M	CC0603JRNPO9BN271
		50	330pF	±5%	311-1075-1-ND	.77	4.68	15.40	311-1075-2-ND	4,000	16.50/M	CC0603JRNPO9BN331
		50	390pF	±5%	311-1076-1-ND	.84	5.10	16.80	311-1076-2-ND	4,000	18.00/M	CC0603JRNPO9BN391
	X7R	50	220pF	±10%	311-1077-1-ND	.55	3.25	9.38	311-1077-2-ND	4,000	9.00/M	CC0603KRX7R9BB221
		50	270pF	±10%	311-1185-1-ND	.55	3.25	9.38	311-1185-2-ND	4,000	9.00/M	CC0603KRX7R9BB271
		50	330pF	±10%	311-1186-1-ND	.55	3.25	9.38	311-1186-2-ND	4,000	9.00/M	CC0603KRX7R9BB331
		50	390pF	±10%	311-1187-1-ND	.55	3.25	9.38	311-1187-2-ND	4,000	9.00/M	CC0603KRX7R9BB391
		50	470pF	±10%	311-1078-1-ND	.55	3.25	9.38	311-1078-2-ND	4,000	9.00/M	CC0603KRX7R9BB471
		50	560pF	±10%	311-1079-1-ND	.55	3.25	9.38	311-1079-2-ND	4,000	9.00/M	CC0603KRX7R9BB561
		50	680pF	±10%	311-1188-1-ND	.55	3.25	9.38	311-1188-2-ND	4,000	9.00/M	CC0603KRX7R9BB681
		50	820pF	±10%	311-1189-1-ND	.55	3.25	9.38	311-1189-2-ND	4,000	9.00/M	CC0603KRX7R9BB821
		50	1000pF	±10%	311-1080-1-ND	.55	3.25	9.38	311-1080-2-ND	4,000	9.00/M	CC0603KRX7R9BB102
		50	1500pF	±10%	311-1184-1-ND	.57	3.38	9.75	311-1184-2-ND	4,000	9.36/M	CC0603KRX7R9BB152
		50	2200pF	±10%	311-1081-1-ND	.55	3.25	9.38	311-1081-2-ND	4,000	9.00/M	CC0603KRX7R9BB222
		50	3300pF	±10%	311-1082-1-ND	.57	3.38	9.75	311-1082-2-ND	4,000	9.36/M	CC0603KRX7R9BB332
		50	4700pF	±10%	311-1083-1-ND	.55	3.25	9.38	311-1083-2-ND	4,000	9.00/M	CC0603KRX7R9BB472
		50	6800pF	±10%	311-1084-1-ND	.54	3.19	9.19	311-1084-2-ND	4,000	8.82/M	CC0603KRX7R9BB682
		50	10000pF	±10%	311-1085-1-ND	.59	3.51	10.13	311-1085-2-ND	4,000	9.72/M	CC0603KRX7R9BB103
		25	22000pF	±10%	311-1086-1-ND	.88	5.20	15.00	311-1086-2-ND	4,000	14.40/M	CC0603KRX7R8BB223
		16	.10µF	±10%	311-1088-1-ND	1.05	6.18	17.81	311-1088-2-ND	4,000	17.10/M	CC0603KRX7R7BB104
	Y5V	25	.10µF	-20%/+80%	311-1087-1-ND	.64	3.77	10.88	311-1087-2-ND	4,000	10.44/M	CC0603ZRY5V8BB104
0805	NP0	50	1.0pF	±0.25pF	311-1089-1-ND	.75	4.42	12.75	311-1089-2-ND	4,000	12.24/M	CC0805CRNPO9BN1R0
		50	1.5pF	±0.25pF	311-1090-1-ND	.75	4.42	12.75	311-1090-2-ND	4,000	12.24/M	CC0805CRNPO9BN1R5
		50	2.0pF	±0.25pF	311-1091-1-ND	.81	4.81	13.88	311-1091-2-ND	4,000	13.32/M	CC0805CRNPO9BN2R0
		50	3.0pF	±0.25pF	311-1092-1-ND	.81	4.81	13.88	311-1092-2-ND	4,000	13.32/M	CC0805CRNPO9BN3R0
		50	4.0pF	±0.25pF	311-1093-1-ND	.81	4.81	13.88	311-1093-2-ND	4,000	13.32/M	CC0805CRNPO9BN4R0
		50	.50pF	±0.25pF	311-1094-1-ND	.86	5.07	14.63	311-1094-2-ND	4,000	14.04/M	CC0805CRNPO9BNR50
		50	6.0pF	±0.5pF	311-1095-1-ND	.81	4.81	13.88	311-1095-2-ND	4,000	13.32/M	CC0805DRNPO9BN6R0
		50	7.0pF	±0.5pF	311-1096-1-ND	.81	4.81	13.88	311-1096-2-ND	4,000	13.32/M	CC0805DRNPO9BN7R0
		50	8.0pF	±0.5pF	311-1097-1-ND	.81	4.81	13.88	311-1097-2-ND	4,000	13.32/M	CC0805DRNPO9BN8R0
		50	9.0pF	±0.5pF	311-1098-1-ND	.81	4.81	13.88	311-1098-2-ND	4,000	13.32/M	CC0805DRNPO9BN9R0
		50	10pF	±5%	311-1099-1-ND	.66	3.90	11.25	311-1099-2-ND	4,000	10.80/M	CC0805JRNPO9BN100
		50	12pF	±5%	311-1100-1-ND	.75	4.42	12.75	311-1100-2-ND	4,000	12.24/M	CC0805JRNPO9BN120
		50	15pF	±5%	311-1101-1-ND	.75	4.42	12.75	311-1101-2-ND	4,000	12.24/M	CC0805JRNPO9BN150
		50	18pF	±5%	311-1102-1-ND	.75	4.42	12.75	311-1102-2-ND	4,000	12.24/M	CC0805JRNPO9BN180
		50	22pF	±5%	311-1103-1-ND	.67	3.97	11.44	311-1103-2-ND	4,000	10.98/M	CC0805JRNPO9BN220
		50	27pF	±5%	311-1104-1-ND	.75	4.42	12.75	311-1104-2-ND	4,000	12.24/M	CC0805JRNPO9BN270
		50	33pF	±5%	311-1105-1-ND	.76	4.49	12.94	311-1105-2-ND	4,000	12.42/M	CC0805JRNPO9BN330
		50	39pF	±5%	311-1106-1-ND	.77	4.55	13.13	311-1106-2-ND	4,000	12.60/M	CC0805JRNPO9BN390
		50	47pF	±5%	311-1107-1-ND	.78	4.62	13.31	311-1107-2-ND	4,000	12.78/M	CC0805JRNPO9BN470
		50	56pF	±5%	311-1108-1-ND	.81	4.81	13.88	311-1108-2-ND	4,000	13.32/M	CC0805JRNPO9BN560
		50	68pF	±5%	311-1109-1-ND	.83	4.88	14.06	311-1109-2-ND	4,000	13.50/M	CC0805JRNPO9BN680
		50	82pF	±5%	311-1110-1-ND	.99	5.85	16.88	311-1110-2-ND	4,000	16.20/M	CC0805JRNPO9BN820
		50	100pF	±5%	311-1111-1-ND	.95	5.62	16.20	311-1111-2-ND	4,000	15.56/M	CC0805JRNPO9BN101
		50	120pF	±5%	311-1112-1-ND	.97	5.72	16.50	311-1112-2-ND	4,000	15.84/M	CC0805JRNPO9BN121
		50	150pF	±5%	311-1113-1-ND	.97	5.72	16.50	311-1113-2-ND	4,000	15.84/M	CC0805JRNPO9BN151
		50	180pF	±5%	311-1114-1-ND	.99	5.85	16.88	311-1114-2-ND	4,000	16.20/M	CC0805JRNPO9BN181
		50	220pF	±5%	311-1115-1-ND	.99	5.85	16.88	311-1115-2-ND	4,000	16.20/M	CC0805JRNPO9BN221
		50	270pF	±5%	311-1116-1-ND	.76	4.59	15.12	311-1116-2-ND	4,000	16.20/M	CC0805JRNPO9BN271
		50	330pF	±5%	311-1117-1-ND	1.01	5.98	17.25	311-1117-2-ND	4,000	16.56/M	CC0805JRNPO9BN331
		50	390pF	±5%	311-1118-1-ND	.70	4.25	14.00	311-1118-2-ND	4,000	15.00/M	CC0805JRNPO9BN391
		50	470pF	±5%	311-1119-1-ND	.77	4.68	15.40	311-1119-2-ND	4,000	16.50/M	CC0805JRNPO9BN471
		50	560pF	±5%	311-1120-1-ND	.84	5.10	16.80	311-1120-2-ND	4,000	18.00/M	CC0805JRNPO9BN561
		50	680pF	±5%	311-1121-1-ND	.92	5.61	18.48	311-1121-2-ND	4,000	19.80/M	CC0805JRNPO9BN681
		50	1000pF	±5%	311-1122-1-ND	1.05	6.38	21.00	311-1122-2-ND	4,000	22.50/M	CC0805JRNPO9BN102
	X7R	50	220pF	±10%	311-1123-1-ND	.61	3.58	10.31	311-1123-2-ND	4,000	9.90/M	CC0805KRX7R9BB221
		50	270pF	±10%	311-1191-1-ND	.77	4.55	13.13	311-1191-2-ND	4,000	12.60/M	CC0805KRX7R9BB271
		50	330pF	±10%	311-1192-1-ND	.77	4.55	13.13	311-1192-2-ND	4,000	12.60/M	CC0805KRX7R9BB331
		50	390pF	±10%	311-1193-1-ND	.77	4.55	13.13	311-1193-2-ND	4,000	12.60/M	CC0805KRX7R9BB391
		50	470pF	±10%	311-1124-1-ND	.64	3.77	10.88	311-1124-2-ND	4,000	10.44/M	CC0805KRX7R9BB471
		50	560pF	±10%	311-1125-1-ND	.64	3.77	10.88	311-1125-2-ND	4,000	10.44/M	CC0805KRX7R9BB561
		50	680pF	±10%	311-1126-1-ND	.64	3.77	10.88	311-1126-2-ND	4,000	10.44/M	CC0805KRX7R9BB681
		50	820pF	±10%	311-1194-1-ND	.77	4.55	13.13	311-1194-2-ND	4,000	12.60/M	CC0805KRX7R9BB821
		50	1000pF	±10%	311-1127-1-ND	.64	3.77	10.88	311-1127-2-ND	4,000	10.44/M	CC0805KRX7R9BB102
		50	1500pF	±10%	311-1128-1-ND	.64	3.77	10.88	311-1128-2-ND	4,000	10.44/M	CC0805KRX7R9BB152
		50	2200pF	±10%	311-1129-1-ND	.61	3.58	10.31	311-1129-2-ND	4,000	9.90/M	CC0805KRX7R9BB222
		50	2700pF	±10%	311-1130-1-ND	.61	3.58	10.31	311-1130-2-ND	4,000	9.90/M	CC0805KRX7R9BB272
		50	3300pF	±10%	311-1131-1-ND	.64	3.77	10.88	311-1131-2-ND	4,000	10.44/M	CC0805KRX7R9BB332
		50	3900pF	±10%	311-1132-1-ND	.64	3.77	10.88	311-1132-2-ND	4,000	10.44/M	CC0805KRX7R9BB392
		50	4700pF	±10%	311-1133-1-ND	.64	3.77	10.88	311-1133-2-ND	4,000	10.44/M	CC0805KRX7R9BB472

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Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Size	Pricing	Yageo Part No.
0805	X7R	50	5600pF	±10%	311-1134-1-ND	.64	3.77	10.88	311-1134-2-ND	4,000	10.44/M	CC0805KRX7R9BB562
		50	6800pF	±10%	311-1135-1-ND	.57	3.38	9.75	311-1135-2-ND	4,000	9.36/M	CC0805KRX7R9BB682
		50	10000pF	±10%	311-1136-1-ND	.66	3.90	11.25	311-1136-2-ND	4,000	10.80/M	CC0805KRX7R9BB103
		50	18000pF	±10%	311-1137-1-ND	.66	3.90	11.25	311-1137-2-ND	4,000	10.80/M	CC0805KRX7R9BB183
		50	22000pF	±10%	311-1138-1-ND	.77	4.55	13.13	311-1138-2-ND	4,000	12.60/M	CC0805KRX7R9BB223
		50	27000pF	±10%	311-1139-1-ND	.83	4.88	14.06	311-1139-2-ND	4,000	13.50/M	CC0805KRX7R9BB273
		50	.10µF	±10%	311-1140-1-ND	.91	5.53	18.20	311-1140-2-ND	4,000	19.50/M	CC0805KRX7R9BB104
		25	.10µF	±10%	311-1141-1-ND	.69	4.21	13.86	311-1141-2-ND	4,000	14.85/M	CC0805KRX7R8BB104
		16	.10µF	±10%	311-1142-1-ND	.82	4.97	16.38	311-1142-2-ND	4,000	17.55/M	CC0805KRX7R7BB104
		50	15000pF	±10%	311-1143-1-ND	.66	3.90	11.25	311-1143-2-ND	4,000	10.80/M	CC0805KRX7R9BB153
	Y5V	10	3.3µF	±20%+80%	311-1190-1-ND	1.75	11.78	39.90	311-1190-2-ND	3,000	51.30/M	CC0805ZKY5V6BB335
1206	NP0	50	.5pF	±0.25pF	311-1145-1-ND	.98	5.95	19.60	311-1145-2-ND	4,000	21.00/M	CC1206CRNPO9BNR50
		50	1pF	±0.25pF	311-1212-1-ND	.92	6.20	21.00	311-1212-2-ND	4,000	27.00/M	CC1206CRNPO9BN1R0
		50	1.5pF	±0.25pF	311-1214-1-ND	.92	6.20	21.00	311-1214-2-ND	4,000	27.00/M	CC1206CRNPO9BN1R5
		50	1.8pF	±0.25pF	311-1215-1-ND	.92	6.20	21.00	311-1215-2-ND	4,000	27.00/M	CC1206CRNPO9BN1R8
		50	2.2pF	±0.25pF	311-1146-1-ND	.95	5.78	19.04	311-1146-2-ND	4,000	20.40/M	CC1206CRNPO9BN2R2
		50	2.7pF	±0.25pF	311-1216-1-ND	.92	6.20	21.00	311-1216-2-ND	4,000	27.00/M	CC1206CRNPO9BN2R7
		50	3.3pF	±0.25pF	311-1147-1-ND	.95	5.74	18.90	311-1147-2-ND	4,000	20.25/M	CC1206CRNPO9BN3R3
		50	3.9pF	±0.25pF	311-1217-1-ND	.92	6.20	21.00	311-1217-2-ND	4,000	27.00/M	CC1206CRNPO9BN3R9
		50	4.7pF	±0.25pF	311-1218-1-ND	.92	6.20	21.00	311-1218-2-ND	4,000	27.00/M	CC1206CRNPO9BN4R7
		50	5.1pF	±0.25pF	311-1148-1-ND	1.02	6.16	20.30	311-1148-2-ND	4,000	—	CC1206CRNPO9BN5R1
		50	5.6pF	±0.25pF	311-1149-1-ND	.95	5.74	18.90	311-1149-2-ND	4,000	20.25/M	CC1206CRNPO9BN5R6
		50	6.8pF	±0.5pF	311-1220-1-ND	.92	6.20	21.00	311-1220-2-ND	4,000	27.00/M	CC1206DRNPO9BN6R8
		50	7.5pF	±0.5pF	311-1221-1-ND	1.04	6.98	23.63	—	—	—	CC1206DRNPO9BN7R5
		50	8.2pF	±0.5pF	311-1222-1-ND	.92	6.20	21.00	311-1222-2-ND	4,000	27.00/M	CC1206DRNPO9BN8R2
		50	9.1pF	±0.5pF	311-1223-1-ND	1.15	7.75	26.25	311-1223-2-ND	4,000	33.75/M	CC1206DRNPO9BN9R1
		50	10pF	±5%	311-1150-1-ND	.90	5.48	18.06	311-1150-2-ND	4,000	19.35/M	CC1206JRNPO9BN100
		50	12pF	±5%	311-1213-1-ND	1.33	8.08	26.60	311-1213-2-ND	4,000	28.50/M	CC1206JRNPO9BN120
		50	15pF	±5%	311-1151-1-ND	1.45	8.83	29.09	311-1151-2-ND	4,000	31.17/M	CC1206JRNPO9BN150
		50	18pF	±5%	311-1152-1-ND	1.70	10.33	34.02	311-1152-2-ND	4,000	36.45/M	CC1206JRNPO9BN180
		50	20pF	±5%	311-1153-1-ND	.95	5.74	18.90	311-1153-2-ND	4,000	20.25/M	CC1206JRNPO9BN200
		50	22pF	±5%	311-1154-1-ND	.97	5.91	19.46	311-1154-2-ND	4,000	20.85/M	CC1206JRNPO9BN220
		50	27pF	±5%	311-1155-1-ND	1.74	10.59	34.87	311-1155-2-ND	4,000	37.37/M	CC1206JRNPO9BN270
		50	33pF	±5%	311-1156-1-ND	1.35	8.22	27.08	311-1156-2-ND	4,000	29.01/M	CC1206JRNPO9BN330
		50	39pF	±5%	311-1157-1-ND	1.08	6.53	21.50	311-1157-2-ND	4,000	23.04/M	CC1206JRNPO9BN390
		50	47pF	±5%	311-1158-1-ND	.98	5.95	19.60	311-1158-2-ND	4,000	21.00/M	CC1206JRNPO9BN470
		50	51pF	±5%	311-1219-1-ND	1.56	10.54	35.70	311-1219-2-ND	4,000	45.90/M	CC1206JRNPO9BN510
		50	56pF	±5%	311-1159-1-ND	1.17	7.12	23.46	311-1159-2-ND	4,000	25.14/M	CC1206JRNPO9BN560
		50	68pF	±5%	311-1160-1-ND	1.12	6.80	22.40	311-1160-2-ND	4,000	24.00/M	CC1206JRNPO9BN680
		50	100pF	±5%	311-1161-1-ND	1.05	6.38	21.00	311-1161-2-ND	4,000	22.50/M	CC1206JRNPO9BN101
		50	120pF	±5%	311-1162-1-ND	1.17	7.11	23.42	311-1162-2-ND	4,000	25.10/M	CC1206JRNPO9BN121
		50	1000pF	±5%	311-1163-1-ND	1.10	7.44	25.20	311-1163-2-ND	4,000	32.40/M	CC1206JRNPO9BN102
	X7R	1KV	1000pF	±10%	311-1144-1-ND	1.99	14.20	51.12	311-1144-2-ND	3,000	73.84/M	CC1206KKX7RCBB102
		50	220pF	±10%	311-1164-1-ND	.90	5.48	18.06	311-1164-2-ND	4,000	19.35/M	CC1206KRX7R9BB221
		50	270pF	±10%	311-1165-1-ND	.90	5.48	18.06	311-1165-2-ND	4,000	19.35/M	CC1206KRX7R9BB271
		50	330pF	±10%	311-1166-1-ND	.90	5.48	18.06	311-1166-2-ND	4,000	19.35/M	CC1206KRX7R9BB331
		50	390pF	±10%	311-1205-1-ND	.98	5.95	19.60	311-1205-2-ND	4,000	21.00/M	CC1206KRX7R9BB391
		50	470pF	±10%	311-1167-1-ND	.84	5.10	16.80	311-1167-2-ND	4,000	18.00/M	CC1206KRX7R9BB471
		50	560pF	±10%	311-1168-1-ND	.84	5.10	16.80	311-1168-2-ND	4,000	18.00/M	CC1206KRX7R9BB561
		50	680pF	±10%	311-1169-1-ND	.84	5.10	16.80	311-1169-2-ND	4,000	18.00/M	CC1206KRX7R9BB681
		50	820pF	±10%	311-1210-1-ND	.95	5.74	18.90	311-1210-2-ND	4,000	20.25/M	CC1206KRX7R9BB821
		50	1000pF	±10%	311-1170-1-ND	.84	5.10	16.80	311-1170-2-ND	4,000	18.00/M	CC1206KRX7R9BB102
		50	1200pF	±10%	311-1197-1-ND	.98	5.95	19.60	311-1197-2-ND	4,000	21.00/M	CC1206KRX7R9BB122
		50	1500pF	±10%	311-1200-1-ND	.98	5.95	19.60	311-1200-2-ND	4,000	21.00/M	CC1206KRX7R9BB152
		50	1800pF	±10%	311-1201-1-ND	.98	5.95	19.60	311-1201-2-ND	4,000	21.00/M	CC1206KRX7R9BB182
		50	2200pF	±10%	311-1171-1-ND	.90	5.48	18.06	311-1171-2-ND	4,000	19.35/M	CC1206KRX7R9BB222
		50	2700pF	±10%	311-1203-1-ND	.98	5.95	19.60	311-1203-2-ND	4,000	21.00/M	CC1206KRX7R9BB272
		50	3300pF	±10%	311-1172-1-ND	.90	5.48	18.06	311-1172-2-ND	4,000	19.35/M	CC1206KRX7R9BB332
		50	3900pF	±10%	311-1206-1-ND	.98	5.95	19.60	311-1206-2-ND	4,000	21.00/M	CC1206KRX7R9BB392
		50	4700pF	±10%	311-1173-1-ND	.84	5.10	16.80	311-1173-2-ND	4,000	18.00/M	CC1206KRX7R9BB472
		50	5600pF	±10%	311-1208-1-ND	1.05	6.38	21.00	311-1208-2-ND	4,000	22.50/M	CC1206KRX7R9BB562
		50	6800pF	±10%	311-1209-1-ND	1.05	6.38	21.00	311-1209-2-ND	4,000	22.50/M	CC1206KRX7R9BB682
		50	8200pF	±10%	311-1211-1-ND	1.12	6.80	22.40	311-1211-2-ND	4,000	24.00/M	CC1206KRX7R9BB822
		50	10000pF	±10%	311-1174-1-ND	.84	5.10	16.80	311-1174-2-ND	4,000	18.00/M	CC1206KRX7R9BB103
		50	12000pF	±10%	311-1198-1-ND	1.87	11.34	37.35	311-1198-2-ND	4,000	40.02/M	CC1206KRX7R9BB123
		50	15000pF	±10%	311-1175-1-ND	.90	5.48	18.06	311-1175-2-ND	4,000	19.35/M	CC1206KRX7R9BB153
		50	18000pF	±10%	311-1202-1-ND	1.33	8.08	26.60	311-1202-2-ND	4,000	28.50/M	CC1206KRX7R9BB183
		50	22000pF	±10%	311-1176-1-ND	.97	5.91	19.46	311-1176-2-ND	4,000	20.85/M	CC1206KRX7R9BB223
		50	27000pF	±10%	311-1204-1-ND	.92	6.20	21.00	311-1204-2-ND	4,000	27.00/M	CC1206KRX7R9BB273
		50	33000pF	±10%	311-1177-1-ND	.90	5.48	18.06	311-1177-2-ND	4,000	19.35/M	CC1206KRX7R9BB333
		50	39000pF	±10%	311-1207-1-ND	.92	6.20	21.00	311-1207-2-ND	4,000	27.00/M	CC1206KRX7R9BB393
		50	47000pF	±10%	311-1178-1-ND	1.04	6.33	20.86	311-1178-2-ND	4,000	22.35/M	CC1206KRX7R9BB473
		50	.10µF	±10%	311-1179-1-ND	.98	5.95	19.60	311-1179-2-ND	4,000	21.00/M	CC1206KRX7R9BB104
		25	.33µF	±10%	311-1180-1-ND	2.30	16.23	56.05	311-1180-2-ND	3,000	76.70/M	CC1206KKX7R8BB334
		16	1.0µF	±10%	311-1181-1-ND	2.45	17.50	63.00	311-1181-2-ND	3,000	91.00/M	CC1206KKX7R7BB105
		10	1.2µF	±10%	311-1199-1-ND	3.08	22.00	79.20	311-1199-2-ND	4,000	114.40/M	CC1206KKX7R6BB125
	Y5V	16	3.3µF	±20%+80%	311-1196-1-ND	1.75	11.78	39.90	311-1196-2-ND	3,000	51.30/M	CC1206ZKY5V7BB335
1812	NP0	3KV	220pF	±5%	311-1182-1-ND	6.08	44.65	161.50	311-1182-2-ND	1,500	247.00/M	CC1812JKNPOEBN221
	X7R	1KV	1000pF	±10%	311-1183-1-ND	4.42	32.43	117.30	311-1183-2-ND	1,000	179.40	CC1812KKX7RCBB102

F

ROHM Multilayer Ceramic Chip Capacitors

FEATURES:

- Small size makes it perfect for lightweight portable devices.
- Precise uniformity facilitates highly efficient automatic mounting.
- Barrier layer and end terminations to improve solderability.

(Dimensions in mm)

Size Code	L1	L2	L3	W	T
0201	0.6±0.03	0.1	0.17	0.3±0.03	0.3±0.03
0402	1.0±0.05	0.1	0.3	0.5±0.05	0.5±0.05
0603	1.6±0.1	0.15	0.4	0.8±0.1	0.8±0.1

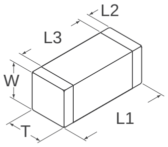

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Rohm Part No.
0201	C0G	25	0.5pF	±0.25pF	511-1374-1-ND ***NEW!***	1.05	6.23	17.96	511-1374-2-ND ***NEW!***	15,000	17.00/M	MCH032AN0R5CK
			0.75pF	±0.25pF	511-1375-1-ND ***NEW!***	1.05	6.23	17.96	511-1375-2-ND ***NEW!***	15,000	17.00/M	MCH032ANR75CK
			1.0pF	±0.25pF	511-1376-1-ND ***NEW!***	1.05	6.23	17.96	511-1376-2-ND ***NEW!***	15,000	17.00/M	MCH032AN010CK
			1.2pF	±0.25pF	511-1377-1-ND ***NEW!***	1.05	6.23	17.96	511-1377-2-ND ***NEW!***	15,000	17.00/M	MCH032AN1R2CK
			1.5pF	±0.25pF	511-1378-1-ND ***NEW!***	1.05	6.23	17.96	511-1378-2-ND ***NEW!***	15,000	17.00/M	MCH032AN1R5CK
			1.8pF	±0.25pF	511-1379-1-ND ***NEW!***	1.05	6.23	17.96	511-1379-2-ND ***NEW!***	15,000	17.00/M	MCH032AN1R8CK
			2.0pF	±0.25pF	511-1380-1-ND ***NEW!***	1.05	6.23	17.96	511-1380-2-ND ***NEW!***	15,000	17.00/M	MCH032AN020CK
			2.2pF	±0.25pF	511-1381-1-ND ***NEW!***	1.05	6.23	17.96	511-1381-2-ND ***NEW!***	15,000	17.00/M	MCH032AN2R2CK
			2.7pF	±0.25pF	511-1382-1-ND ***NEW!***	1.05	6.23	17.96	511-1382-2-ND ***NEW!***	15,000	17.00/M	MCH032AN2R7CK
			3.0pF	±0.25pF	511-1383-1-ND ***NEW!***	1.05	6.23	17.96	511-1383-2-ND ***NEW!***	15,000	17.00/M	MCH032AN030CK
			3.3pF	±0.25pF	511-1384-1-ND ***NEW!***	1.05	6.23	17.96	511-1384-2-ND ***NEW!***	15,000	17.00/M	MCH032AN3R3CK
			3.9pF	±0.25pF	511-1385-1-ND ***NEW!***	1.05	6.23	17.96	511-1385-2-ND ***NEW!***	15,000	17.00/M	MCH032AN3R9CK
			4.0pF	±0.25pF	511-1386-1-ND ***NEW!***	1.05	6.23	17.96	511-1386-2-ND ***NEW!***	15,000	17.00/M	MCH032AN040CK
			4.7pF	±0.25pF	511-1387-1-ND ***NEW!***	1.05	6.23	17.96	511-1387-2-ND ***NEW!***	15,000	17.00/M	MCH032AN4R7CK
			5.0pF	±0.25pF	511-1388-1-ND ***NEW!***	1.05	6.23	17.96	511-1388-2-ND ***NEW!***	15,000	17.00/M	MCH032AN050CK
			5.6pF	±0.5pF	511-1389-1-ND ***NEW!***	1.05	6.23	17.96	511-1389-2-ND ***NEW!***	15,000	17.00/M	MCH032AN5R6DK
			6.0pF	±0.25pF	511-1390-1-ND ***NEW!***	1.05	6.23	17.96	511-1390-2-ND ***NEW!***	15,000	17.00/M	MCH032AN060CK
			6.0pF	±0.5pF	511-1391-1-ND ***NEW!***	1.05	6.23	17.96	511-1391-2-ND ***NEW!***	15,000	17.00/M	MCH032AN060DK
			6.8pF	±0.5pF	511-1392-1-ND ***NEW!***	1.05	6.23	17.96	511-1392-2-ND ***NEW!***	15,000	17.00/M	MCH032AN6R8DK
			7.0pF	±0.5pF	511-1393-1-ND ***NEW!***	1.05	6.23	17.96	511-1393-2-ND ***NEW!***	15,000	17.00/M	MCH032AN070DK
			8.0pF	±0.25pF	511-1394-1-ND ***NEW!***	1.05	6.23	17.96	511-1394-2-ND ***NEW!***	15,000	17.00/M	MCH032AN080CK
			8.0pF	±0.5pF	511-1395-1-ND ***NEW!***	1.05	6.23	17.96	511-1395-2-ND ***NEW!***	15,000	17.00/M	MCH032AN080DK
			8.2pF	±0.5pF	511-1396-1-ND ***NEW!***	1.05	6.23	17.96	511-1396-2-ND ***NEW!***	15,000	17.00/M	MCH032AN8R2DK
			9.0pF	±0.5pF	511-1397-1-ND ***NEW!***	1.05	6.23	17.96	511-1397-2-ND ***NEW!***	15,000	17.00/M	MCH032AN090DK
			10.0pF	±0.25pF	511-1398-1-ND ***NEW!***	1.05	6.23	17.96	511-1398-2-ND ***NEW!***	15,000	17.00/M	MCH032AN100CK
			10.0pF	±0.5pF	511-1399-1-ND ***NEW!***	1.05	6.23	17.96	511-1399-2-ND ***NEW!***	15,000	17.00/M	MCH032AN100DK
			12pF	±5%	511-1400-1-ND ***NEW!***	1.05	6.23	17.96	511-1400-2-ND ***NEW!***	15,000	17.00/M	MCH032AN120JK
			13pF	±5%	511-1401-1-ND ***NEW!***	1.05	6.23	17.96	511-1401-2-ND ***NEW!***	15,000	17.00/M	MCH032AN130JK
			15pF	±5%	511-1402-1-ND ***NEW!***	1.05	6.23	17.96	511-1402-2-ND ***NEW!***	15,000	17.00/M	MCH032AN150JK
			18pF	±5%	511-1403-1-ND ***NEW!***	1.05	6.23	17.96	511-1403-2-ND ***NEW!***	15,000	17.00/M	MCH032AN180JK
			20pF	±5%	511-1404-1-ND ***NEW!***	1.05	6.23	17.96	511-1404-2-ND ***NEW!***	15,000	17.00/M	MCH032AN200JK
			22pF	±5%	511-1405-1-ND ***NEW!***	1.05	6.23	17.96	511-1405-2-ND ***NEW!***	15,000	17.00/M	MCH032AN220JK
			27pF	±5%	511-1406-1-ND ***NEW!***	1.05	6.23	17.96	511-1406-2-ND ***NEW!***	15,000	17.00/M	MCH032AN270JK
			33pF	±5%	511-1407-1-ND ***NEW!***	1.05	6.23	17.96	511-1407-2-ND ***NEW!***	15,000	17.00/M	MCH032AN330JK
			39pF	±5%	511-1408-1-ND ***NEW!***	1.05	6.23	17.96	511-1408-2-ND ***NEW!***	15,000	17.00/M	MCH032AN390JK
			47pF	±5%	511-1409-1-ND ***NEW!***	1.05	6.23	17.96	511-1409-2-ND ***NEW!***	15,000	17.00/M	MCH032AN470JK
			68pF	±5%	511-1411-1-ND ***NEW!***	1.05	6.23	17.96	511-1411-2-ND ***NEW!***	15,000	17.00/M	MCH032AN680JK
			82pF	±5%	511-1412-1-ND ***NEW!***	1.05	6.23	17.96	511-1412-2-ND ***NEW!***	15,000	17.00/M	MCH032AN820JK
			100pF	±5%	511-1413-1-ND ***NEW!***	1.05	6.23	17.96	511-1413-2-ND ***NEW!***	15,000	17.00/M	MCH032AN101JK
	X7R	25	100pF	±10%	511-1414-1-ND ***NEW!***	1.05	6.23	17.96	511-1414-2-ND ***NEW!***	15,000	17.00/M	MCH032CN101KK
			150pF	±10%	511-1415-1-ND ***NEW!***	1.05	6.23	17.96	511-1415-2-ND ***NEW!***	15,000	17.00/M	MCH032CN151KK
			220pF	±10%	511-1416-1-ND ***NEW!***	1.05	6.23	17.96	511-1416-2-ND ***NEW!***	15,000	17.00/M	MCH032CN221KK
			330pF	±10%	511-1417-1-ND ***NEW!***	1.05	6.23	17.96	511-1417-2-ND ***NEW!***	15,000	17.00/M	MCH032CN331KK
			470pF	±10%	511-1418-1-ND ***NEW!***	1.05	6.23	17.96	511-1418-2-ND ***NEW!***	15,000	17.00/M	MCH032CN471KK
			680pF	±10%	511-1419-1-ND ***NEW!***	1.05	6.23	17.96	511-1419-2-ND ***NEW!***	15,000	17.00/M	MCH032CN681KK
			1,000pF	±10%	511-1420-1-ND ***NEW!***	1.05	6.23	17.96	511-1420-2-ND ***NEW!***	15,000	17.00/M	MCH032CN102KK
			1,500pF	±10%	511-1421-1-ND ***NEW!***	1.05	6.23	17.96	511-1421-2-ND ***NEW!***	15,000	17.00/M	MCH032CN152KK
0402	C0G	50	0.5pF	±0.25pF	511-1000-1-ND	.45	2.68	7.73	511-1000-2-ND	10,000	7.00/M	MCH155A0R5CK
			0.75pF	±0.25pF	511-1001-1-ND	.45	2.68	7.73	511-1001-2-ND	10,000	7.00/M	MCH155AR75CK
			1.0pF	±0.25pF	511-1002-1-ND	.45	2.68	7.73	511-1002-2-ND	10,000	7.00/M	MCH155A010CK
			1.1pF	±0.25pF	511-1003-1-ND	.45	2.68	7.73	511-1003-2-ND	10,000	7.00/M	MCH155A1R1CK
			1.2pF	±0.25pF	511-1004-1-ND	.45	2.68	7.73	511-1004-2-ND	10,000	7.00/M	MCH155A1R2CK
			1.3pF	±0.25pF	511-1005-1-ND	.45	2.68	7.73	511-1005-2-ND	10,000	7.00/M	MCH155A1R3CK
			1.5pF	±0.25pF	511-1006-1-ND	.45	2.68	7.73	511-1006-2-ND	10,000	7.00/M	MCH155A1R5CK
			1.6pF	±0.25pF	511-1007-1-ND	.45	2.68	7.73	511-1007-2-ND	10,000	7.00/M	MCH155A1R6CK
			1.8pF	±0.25pF	511-1008-1-ND	.45	2.68	7.73	511-1008-2-ND	10,000	7.00/M	MCH155A1R8CK
			2.0pF	±0.25pF	511-1009-1-ND	.45	2.68	7.73	511-1009-2-ND	10,000	7.00/M	MCH155A020CK
			2.2pF	±0.25pF	511-1010-1-ND	.45	2.68	7.73	511-1010-2-ND	10,000	7.00/M	MCH155A2R2CK
			2.4pF	±0.25pF	511-1011-1-ND	.45	2.68	7.73	511-1011-2-ND	10,000	7.00/M	MCH155A2R4CK
			2.7pF	±0.25pF	511-1012-1-ND	.45	2.68	7.73	511-1012-2-ND	10,000	7.00/M	MCH155A2R7CK
			3.0pF	±0.25pF	511-1013-1-ND	.45	2.68	7.73	511-1013-2-ND	10,000	7.00/M	MCH155A030CK
			3.3pF	±0.25pF	511-1014-1-ND	.45	2.68	7.73	511-1014-2-ND	10,000	7.00/M	MCH155A3R3CK
			3.6pF	±0.25pF	511-1015-1-ND	.45	2.68	7.73	511-1015-2-ND	10,000	7.00/M	MCH155A3R6CK
			3.9pF	±0.25pF	511-1016-1-ND	.45	2.68	7.73	511-1016-2-ND	10,000	7.00/M	MCH155A3R9CK
			4.0pF	±0.25pF	511-1017-1-ND	.45	2.68	7.73	511-1017-2-ND	10,000	7.00/M	MCH155A040CK
			4.3pF	±0.25pF	511-1018-1-ND	.45	2.68	7.73	511-1018-2-ND	10,000	7.00/M	MCH155A4R3CK
			4.7pF	±0.25pF	511-1019-1-ND	.45	2.68	7.73	511-1019-2-ND	10,000	7.00/M	MCH155A4R7CK
			5.0pF	±0.25pF	511-1020-1-ND	.45	2.68	7.73	511-1020-2-ND	10,000	7.00/M	MCH155A050CK
			5.1pF	±0.5pF	511-1021-1-ND	.45	2.68	7.73	511-1021-2-ND	10,000	7.00/M	MCH155A5R1DK
			5.6pF	±0.5pF	511-1022-1-ND	.45	2.68	7.73	511-1022-2-ND	10,000	7.00/M	MCH155A5R6DK
			6.0pF	±0.5pF	511-1023-1-ND	.45	2.68	7.73	511-1023-2-ND	10,000	7.00/M	MCH155A060DK
			6.2pF	±0.5pF	511-1024-1-ND	.45	2.68	7.73	511-1024-2-ND	10,000	7.00/M	MCH155A6R2DK
			6.8pF	±0.5pF	511-1025-1-ND	.45	2.68	7.73	511-1025-2-ND	10,000	7.00/M	MCH155A6R8DK
			7.0pF	±0.5pF	511-1026-1-ND	.45	2.68	7.73	511-1026-2-ND	10,000	7.00/M	MCH155A070DK

(Continued)

Multilayer Ceramic Chip Capacitors *(Cont.)*

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		Rohm Part No.
						10	100	500		Size	Pricing	
0402	C0G	50	7.5pF	±0.5pF	511-1027-1-ND	.45	2.68	7.73	511-1027-2-ND	10,000	7.00/M	MCH155A7R5DK
			8.0pF	±0.5pF	511-1028-1-ND	.45	2.68	7.73	511-1028-2-ND	10,000	7.00/M	MCH155A080DK
			8.2pF	±0.5pF	511-1029-1-ND	.45	2.68	7.73	511-1029-2-ND	10,000	7.00/M	MCH155A8R2DK
			9.0pF	±0.5pF	511-1030-1-ND	.45	2.68	7.73	511-1030-2-ND	10,000	7.00/M	MCH155A090DK
			9.1pF	±0.5pF	511-1031-1-ND	.45	2.68	7.73	511-1031-2-ND	10,000	7.00/M	MCH155A9R1DK
			10pF	±0.5pF	511-1032-1-ND	.45	2.68	7.73	511-1032-2-ND	10,000	7.00/M	MCH155A100DK
			11pF	±5%	511-1033-1-ND	.45	2.68	7.73	511-1033-2-ND	10,000	7.00/M	MCH155A110JK
			12pF	±5%	511-1034-1-ND	.45	2.68	7.73	511-1034-2-ND	10,000	7.00/M	MCH155A120JK
			13pF	±5%	511-1035-1-ND	.48	2.85	8.23	511-1035-2-ND	10,000	8.00/M	MCH155A130JK
			15pF	±5%	511-1036-1-ND	.45	2.68	7.73	511-1036-2-ND	10,000	7.00/M	MCH155A150JK
			16pF	±5%	511-1037-1-ND	.45	2.68	7.73	511-1037-2-ND	10,000	7.00/M	MCH155A160JK
			18pF	±5%	511-1038-1-ND	.45	2.68	7.73	511-1038-2-ND	10,000	7.00/M	MCH155A180JK
			20pF	±5%	511-1039-1-ND	.45	2.68	7.73	511-1039-2-ND	10,000	7.00/M	MCH155A200JK
			22pF	±5%	511-1040-1-ND	.45	2.68	7.73	511-1040-2-ND	10,000	7.00/M	MCH155A220JK
			24pF	±5%	511-1041-1-ND	.45	2.68	7.73	511-1041-2-ND	10,000	7.00/M	MCH155A240JK
			27pF	±5%	511-1042-1-ND	.45	2.68	7.73	511-1042-2-ND	10,000	7.00/M	MCH155A270JK
			30pF	±5%	511-1043-1-ND	.45	2.68	7.73	511-1043-2-ND	10,000	7.00/M	MCH155A300JK
			33pF	±5%	511-1044-1-ND	.45	2.68	7.73	511-1044-2-ND	10,000	7.00/M	MCH155A330JK
			36pF	±5%	511-1045-1-ND	.45	2.68	7.73	511-1045-2-ND	10,000	7.00/M	MCH155A360JK
			39pF	±5%	511-1046-1-ND	.45	2.68	7.73	511-1046-2-ND	10,000	7.00/M	MCH155A390JK
			43pF	±5%	511-1047-1-ND	.45	2.68	7.73	511-1047-2-ND	10,000	7.00/M	MCH155A430JK
			47pF	±5%	511-1048-1-ND	.45	2.68	7.73	511-1048-2-ND	10,000	7.00/M	MCH155A470JK
			51pF	±5%	511-1049-1-ND	.45	2.68	7.73	511-1049-2-ND	10,000	7.00/M	MCH155A510JK
			56pF	±5%	511-1050-1-ND	.45	2.68	7.73	511-1050-2-ND	10,000	7.00/M	MCH155A560JK
			62pF	±5%	511-1051-1-ND	.45	2.68	7.73	511-1051-2-ND	10,000	7.00/M	MCH155A620JK
			68pF	±5%	511-1052-1-ND	.45	2.68	7.73	511-1052-2-ND	10,000	7.00/M	MCH155A680JK
			75pF	±5%	511-1053-1-ND	.51	3.03	8.74	511-1053-2-ND	10,000	8.00/M	MCH155A750JK
			82pF	±5%	511-1054-1-ND	.45	2.68	7.73	511-1054-2-ND	10,000	7.00/M	MCH155A820JK
			91pF	±5%	511-1055-1-ND	.51	3.03	8.74	511-1055-2-ND	10,000	8.00/M	MCH155A910JK
			100pF	±5%	511-1056-1-ND	.45	2.68	7.73	511-1056-2-ND	10,000	7.00/M	MCH155A101JK
			110pF	±5%	511-1057-1-ND	.57	3.37	9.73	511-1057-2-ND	10,000	9.00/M	MCH155A111JK
			120pF	±5%	511-1058-1-ND	.45	2.68	7.73	511-1058-2-ND	10,000	7.00/M	MCH155A121JK
			130pF	±5%	511-1059-1-ND	.57	3.37	9.73	511-1059-2-ND	10,000	9.00/M	MCH155A131JK
			150pF	±5%	511-1060-1-ND	.57	3.37	9.73	511-1060-2-ND	10,000	9.00/M	MCH155A151JK
			160pF	±5%	511-1061-1-ND	.66	3.89	11.23	511-1061-2-ND	10,000	11.00/M	MCH155A161JK
			180pF	±5%	511-1062-1-ND	.53	3.11	8.98	511-1062-2-ND	10,000	9.00/M	MCH155A181JK
			200pF	±5%	511-1063-1-ND	.66	3.89	11.23	511-1063-2-ND	10,000	11.00/M	MCH155A201JK
			220pF	±5%	511-1064-1-ND	.66	3.89	11.23	511-1064-2-ND	10,000	11.00/M	MCH155A221JK
	X7R	50	220pF	±10%	511-1065-1-ND	.45	2.68	7.73	511-1065-2-ND	10,000	7.00/M	MCH155CN221KK
			330pF	±10%	511-1066-1-ND	.45	2.68	7.73	511-1066-2-ND	10,000	7.00/M	MCH155CN331KK
			470pF	±10%	511-1067-1-ND	.45	2.68	7.73	511-1067-2-ND	10,000	7.00/M	MCH155CN471KK
			680pF	±10%	511-1068-1-ND	.45	2.68	7.73	511-1068-2-ND	10,000	7.00/M	MCH155CN681KK
			1,000pF	±10%	511-1069-1-ND	.45	2.68	7.73	511-1069-2-ND	10,000	7.00/M	MCH155CN102KK
			1,500pF	±10%	511-1070-1-ND	.45	2.68	7.73	511-1070-2-ND	10,000	7.00/M	MCH155CN152KK
			2,200pF	±10%	511-1071-1-ND	.45	2.68	7.73	511-1071-2-ND	10,000	7.00/M	MCH155CN222KK
			2,700pF	±10%	511-1072-1-ND	.45	2.68	7.73	511-1072-2-ND	10,000	7.00/M	MCH155CN272KK
			3,300pF	±10%	511-1073-1-ND	.45	2.68	7.73	511-1073-2-ND	10,000	7.00/M	MCH155CN332KK
			4,700pF	±10%	511-1074-1-ND	.45	2.68	7.73	511-1074-2-ND	10,000	7.00/M	MCH155CN472KK
			6,800pF	±10%	511-1075-1-ND	.45	2.68	7.73	511-1075-2-ND	10,000	7.00/M	MCH155CN682KK
		25	10,000pF	±10%	511-1077-1-ND	.45	2.68	7.73	511-1077-2-ND	10,000	7.00/M	MCH152CN103KK
		16	10,000pF	±10%	511-1078-1-ND	.45	2.68	7.73	511-1078-2-ND	10,000	7.00/M	MCH153CN103KK
	Y5V	50	1,000pF	+80/-20%	511-1079-1-ND	.45	2.68	7.73	511-1079-2-ND	10,000	7.00/M	MCH155FN102ZK
			2,200pF	+80/-20%	511-1080-1-ND	.45	2.68	7.73	511-1080-2-ND	10,000	7.00/M	MCH155FN222ZK
			4,700pF	+80/-20%	511-1081-1-ND	.45	2.68	7.73	511-1081-2-ND	10,000	7.00/M	MCH155FN472ZK
			10,000pF	+80/-20%	511-1082-1-ND	.45	2.68	7.73	511-1082-2-ND	10,000	7.00/M	MCH155FN103ZK
		25	22,000pF	+80/-20%	511-1083-1-ND	.45	2.68	7.73	511-1083-2-ND	10,000	7.00/M	MCH152FN223ZK
		16	47,000pF	+80/-20%	511-1084-1-ND	.45	2.68	7.73	511-1084-2-ND	10,000	7.00/M	MCH153FN473ZK
			0.10 µF	+80/-20%	511-1085-1-ND	.45	2.68	7.73	511-1085-2-ND	10,000	7.00/M	MCH153FN104ZK
0603	C0G	50	0.5pF	±0.25pF	511-1086-1-ND	.51	3.03	8.74	511-1086-2-ND	4,000	8.00/M	MCH185A0R5CK
			0.75pF	±0.25pF	511-1087-1-ND	.57	3.37	9.73	511-1087-2-ND	4,000	9.00/M	MCH185AR75CK
			1.0pF	±0.25pF	511-1088-1-ND	.51	3.03	8.74	511-1088-2-ND	4,000	8.00/M	MCH185A010CK
			1.2pF	±0.25pF	511-1089-1-ND	.57	3.37	9.73	511-1089-2-ND	4,000	9.00/M	MCH185A1R2CK
			1.3pF	±0.25pF	511-1090-1-ND	.57	3.37	9.73	511-1090-2-ND	4,000	9.00/M	MCH185A1R3CK
			1.5pF	±0.25pF	511-1091-1-ND	.57	3.37	9.73	511-1091-2-ND	4,000	9.00/M	MCH185A1R5CK
			1.8pF	±0.25pF	511-1092-1-ND	.57	3.37	9.73	511-1092-2-ND	4,000	9.00/M	MCH185A1R8CK
			2.0pF	±0.25pF	511-1093-1-ND	.51	3.03	8.74	511-1093-2-ND	4,000	8.00/M	MCH185A020CK
			2.2pF	±0.25pF	511-1094-1-ND	.57	3.37	9.73	511-1094-2-ND	4,000	9.00/M	MCH185A2R2CK
			2.4pF	±0.25pF	511-1095-1-ND	.57	3.37	9.73	511-1095-2-ND	4,000	9.00/M	MCH185A2R4CK
			2.7pF	±0.25pF	511-1096-1-ND	.57	3.37	9.73	511-1096-2-ND	4,000	9.00/M	MCH185A2R7CK
			3.0pF	±0.25pF	511-1097-1-ND	.51	3.03	8.74	511-1097-2-ND	4,000	8.00/M	MCH185A030CK
			3.3pF	±0.25pF	511-1098-1-ND	.57	3.37	9.73	511-1098-2-ND	4,000	9.00/M	MCH185A3R3CK
			3.6pF	±0.25pF	511-1099-1-ND	.57	3.37	9.73	511-1099-2-ND	4,000	9.00/M	MCH185A3R6CK
			3.9pF	±0.25pF	511-1100-1-ND	.57	3.37	9.73	511-1100-2-ND	4,000	9.00/M	MCH185A3R9CK
			4.0pF	±0.25pF	511-1101-1-ND	.51	3.03	8.74	511-1101-2-ND	4,000	8.00/M	MCH185A040CK
			4.7pF	±0.25pF	511-1102-1-ND	.57	3.37	9.73	511-1102-2-ND	4,000	9.00/M	MCH185A4R7CK
			5.0pF	±0.25pF	511-1103-1-ND	.51	3.03	8.74	511-1103-2-ND	4,000	8.00/M	MCH185A050CK
			5.1pF	±0.5pF	511-1104-1-ND	.57	3.37	9.73	511-1104-2-ND	4,000	9.00/M	MCH185A5R1DK
			5.6pF	±0.5pF	511-1105-1-ND	.57	3.37	9.73	511-1105-2-ND	4,000	9.00/M	MCH185A5R6DK
			6.0pF	±0.5pF	511-1106-1-ND	.51	3.03	8.74	511-1106-2-ND	4,000	8.00/M	MCH185A060DK

(Continued)

Size Code	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Rohm Part No.
0603	C0G	50	6.2pF	±0.5pF	511-1107-1-ND	.57	3.37	9.73	511-1107-2-ND	4,000	9.00/M	MCH185A6R2DK
			6.8pF	±0.5pF	511-1108-1-ND	.57	3.37	9.73	511-1108-2-ND	4,000	9.00/M	MCH185A6R8DK
			7.0pF	±0.5pF	511-1109-1-ND	.51	3.03	8.74	511-1109-2-ND	4,000	8.00/M	MCH185A070DK
			7.5pF	±0.5pF	511-1110-1-ND	.57	3.37	9.73	511-1110-2-ND	4,000	9.00/M	MCH185A7R5DK
			8.0pF	±0.5pF	511-1111-1-ND	.51	3.03	8.74	511-1111-2-ND	4,000	8.00/M	MCH185A080DK
			8.2pF	±0.5pF	511-1112-1-ND	.57	3.37	9.73	511-1112-2-ND	4,000	9.00/M	MCH185A8R2DK
			9.0pF	±0.5pF	511-1113-1-ND	.51	3.03	8.74	511-1113-2-ND	4,000	8.00/M	MCH185A090DK
			10pF	±0.5pF	511-1114-1-ND	.51	3.03	8.74	511-1114-2-ND	4,000	8.00/M	MCH185A100DK
			11pF	±5%	511-1115-1-ND	.57	3.37	9.73	511-1115-2-ND	4,000	9.00/M	MCH185A110JK
			12pF	±5%	511-1116-1-ND	.57	3.37	9.73	511-1116-2-ND	4,000	9.00/M	MCH185A120JK
			13pF	±5%	511-1117-1-ND	.57	3.37	9.73	511-1117-2-ND	4,000	9.00/M	MCH185A130JK
			15pF	±5%	511-1118-1-ND	.57	3.37	9.73	511-1118-2-ND	4,000	9.00/M	MCH185A150JK
			16pF	±5%	511-1119-1-ND	.57	3.37	9.73	511-1119-2-ND	4,000	9.00/M	MCH185A160JK
			18pF	±5%	511-1120-1-ND	.57	3.37	9.73	511-1120-2-ND	4,000	9.00/M	MCH185A180JK
			20pF	±5%	511-1121-1-ND	.57	3.37	9.73	511-1121-2-ND	4,000	9.00/M	MCH185A200JK
			22pF	±5%	511-1122-1-ND	.57	3.37	9.73	511-1122-2-ND	4,000	9.00/M	MCH185A220JK
			24pF	±5%	511-1123-1-ND	.57	3.37	9.73	511-1123-2-ND	4,000	9.00/M	MCH185A240JK
			27pF	±5%	511-1124-1-ND	.57	3.37	9.73	511-1124-2-ND	4,000	9.00/M	MCH185A270JK
			30pF	±5%	511-1125-1-ND	.57	3.37	9.73	511-1125-2-ND	4,000	9.00/M	MCH185A300JK
			33pF	±5%	511-1126-1-ND	.57	3.37	9.73	511-1126-2-ND	4,000	9.00/M	MCH185A330JK
			36pF	±5%	511-1127-1-ND	.57	3.37	9.73	511-1127-2-ND	4,000	9.00/M	MCH185A360JK
			39pF	±5%	511-1128-1-ND	.57	3.37	9.73	511-1128-2-ND	4,000	9.00/M	MCH185A390JK
			43pF	±5%	511-1129-1-ND	.57	3.37	9.73	511-1129-2-ND	4,000	9.00/M	MCH185A430JK
			47pF	±5%	511-1130-1-ND	.57	3.37	9.73	511-1130-2-ND	4,000	9.00/M	MCH185A470JK
			51pF	±5%	511-1131-1-ND	.57	3.37	9.73	511-1131-2-ND	4,000	9.00/M	MCH185A510JK
			56pF	±5%	511-1132-1-ND	.57	3.37	9.73	511-1132-2-ND	4,000	9.00/M	MCH185A560JK
			62pF	±5%	511-1133-1-ND	.57	3.37	9.73	511-1133-2-ND	4,000	9.00/M	MCH185A620JK
			68pF	±5%	511-1134-1-ND	.57	3.37	9.73	511-1134-2-ND	4,000	9.00/M	MCH185A680JK
			75pF	±5%	511-1135-1-ND	.57	3.37	9.73	511-1135-2-ND	4,000	9.00/M	MCH185A750JK
			82pF	±5%	511-1136-1-ND	.57	3.37	9.73	511-1136-2-ND	4,000	9.00/M	MCH185A820JK
			91pF	±5%	511-1137-1-ND	.57	3.37	9.73	511-1137-2-ND	4,000	9.00/M	MCH185A910JK
			100pF	±5%	511-1138-1-ND	.57	3.37	9.73	511-1138-2-ND	4,000	9.00/M	MCH185A101JK
			110pF	±5%	511-1139-1-ND	.57	3.37	9.73	511-1139-2-ND	4,000	9.00/M	MCH185A111JK
			120pF	±5%	511-1140-1-ND	.57	3.37	9.73	511-1140-2-ND	4,000	9.00/M	MCH185A121JK
			130pF	±5%	511-1141-1-ND	.57	3.37	9.73	511-1141-2-ND	4,000	9.00/M	MCH185A131JK
			150pF	±5%	511-1142-1-ND	.57	3.37	9.73	511-1142-2-ND	4,000	9.00/M	MCH185A151JK
			160pF	±5%	511-1143-1-ND	.76	4.50	12.98	511-1143-2-ND	4,000	12.00/M	MCH185A161JK
			180pF	±5%	511-1144-1-ND	.57	3.37	9.73	511-1144-2-ND	4,000	9.00/M	MCH185A181JK
			200pF	±5%	511-1145-1-ND	.76	4.50	12.98	511-1145-2-ND	4,000	12.00/M	MCH185A201JK
			220pF	±5%	511-1146-1-ND	.66	3.89	11.23	511-1146-2-ND	4,000	11.00/M	MCH185A221JK
			240pF	±5%	511-1147-1-ND	.76	4.50	12.98	511-1147-2-ND	4,000	12.00/M	MCH185A241JK
			270pF	±5%	511-1148-1-ND	.66	3.89	11.23	511-1148-2-ND	4,000	11.00/M	MCH185A271JK
			300pF	±5%	511-1149-1-ND	.76	4.50	12.98	511-1149-2-ND	4,000	12.00/M	MCH185A301JK
			330pF	±5%	511-1150-1-ND	.85	5.01	14.46	511-1150-2-ND	4,000	14.00/M	MCH185A331JK
			360pF	±5%	511-1151-1-ND	1.04	6.14	17.70	511-1151-2-ND	4,000	17.00/M	MCH185A361JK
			390pF	±5%	511-1152-1-ND	.85	5.01	14.46	511-1152-2-ND	4,000	14.00/M	MCH185A391JK
			430pF	±5%	511-1153-1-ND	1.13	6.66	19.20	511-1153-2-ND	4,000	18.00/M	MCH185A431JK
			470pF	±5%	511-1154-1-ND	.85	5.01	14.46	511-1154-2-ND	4,000	14.00/M	MCH185A471JK
			510pF	±5%	511-1155-1-ND	1.04	6.14	17.70	511-1155-2-ND	4,000	17.00/M	MCH185A511JK
			560pF	±5%	511-1156-1-ND	.85	5.01	14.46	511-1156-2-ND	4,000	14.00/M	MCH185A561JK
			680pF	±5%	511-1157-1-ND	1.32	7.78	22.44	511-1157-2-ND	4,000	22.00/M	MCH185A681JK
			750pF	±5%	511-1158-1-ND	1.32	7.78	22.44	511-1158-2-ND	4,000	22.00/M	MCH185A751JK
			820pF	±5%	511-1159-1-ND	1.13	6.66	19.20	511-1159-2-ND	4,000	18.00/M	MCH185A821JK
	X7R	50	220pF	±10%	511-1160-1-ND	.57	3.37	9.73	511-1160-2-ND	4,000	9.00/M	MCH185CN221KK
			330pF	±10%	511-1161-1-ND	.57	3.37	9.73	511-1161-2-ND	4,000	9.00/M	MCH185CN331KK
			470pF	±10%	511-1162-1-ND	.57	3.37	9.73	511-1162-2-ND	4,000	9.00/M	MCH185CN471KK
			680pF	±10%	511-1163-1-ND	.57	3.37	9.73	511-1163-2-ND	4,000	9.00/M	MCH185CN681KK
			1,000pF	±10%	511-1164-1-ND	.57	3.37	9.73	511-1164-2-ND	4,000	9.00/M	MCH185CN102KK
			1,500pF	±10%	511-1165-1-ND	.57	3.37	9.73	511-1165-2-ND	4,000	9.00/M	MCH185CN152KK
			2,200pF	±10%	511-1166-1-ND	.57	3.37	9.73	511-1166-2-ND	4,000	9.00/M	MCH185CN222KK
			2,700pF	±10%	511-1167-1-ND	.57	3.37	9.73	511-1167-2-ND	4,000	9.00/M	MCH185CN272KK
			3,300pF	±10%	511-1168-1-ND	.57	3.37	9.73	511-1168-2-ND	4,000	9.00/M	MCH185CN332KK
			4,700pF	±10%	511-1169-1-ND	.57	3.37	9.73	511-1169-2-ND	4,000	9.00/M	MCH185CN472KK
			6,800pF	±10%	511-1170-1-ND	.57	3.37	9.73	511-1170-2-ND	4,000	9.00/M	MCH185CN682KK
			10,000pF	±10%	511-1171-1-ND	.57	3.37	9.73	511-1171-2-ND	4,000	9.00/M	MCH185CN103KK
			12,000pF	±10%	511-1172-1-ND	.57	3.37	9.73	511-1172-2-ND	4,000	9.00/M	MCH185CN123KK
			15,000pF	±10%	511-1173-1-ND	.57	3.37	9.73	511-1173-2-ND	4,000	9.00/M	MCH185CN153KK
			22,000pF	±10%	511-1174-1-ND	.57	3.37	9.73	511-1174-2-ND	4,000	9.00/M	MCH185CN223KK
			0.10µF	±10%	511-1175-1-ND	.95	5.62	16.22	511-1175-2-ND	4,000	16.00/M	MCH185CN104KK
		25	33,000pF	±10%	511-1176-1-ND	.66	3.89	11.23	511-1176-2-ND	4,000	11.00/M	MCH182CN333KK
			47,000pF	±10%	511-1177-1-ND	.76	4.50	12.98	511-1177-2-ND	4,000	12.00/M	MCH182CN473KK
			68,000pF	±10%	511-1178-1-ND	.76	4.50	12.98	511-1178-2-ND	4,000	12.00/M	MCH182CN683KK
			0.10µF	±10%	511-1179-1-ND	.61	3.63	10.48	511-1179-2-ND	4,000	10.00/M	MCH182CN104KK
	Y5V	50	1,000pF	+80/-20%	511-1180-1-ND	.57	3.37	9.73	511-1180-2-ND	4,000	9.00/M	MCH185FN102ZK
			2,200pF	+80/-20%	511-1181-1-ND	.57	3.37	9.73	511-1181-2-ND	4,000	9.00/M	MCH185FN222ZK
			4,700pF	+80/-20%	511-1182-1-ND	.57	3.37	9.73	511-1182-2-ND	4,000	9.00/M	MCH185FN472ZK
			10,000pF	+80/-20%	511-1183-1-ND	.57	3.37	9.73	511-1183-2-ND	4,000	9.00/M	MCH185FN103ZK
			22,000pF	+80/-20%	511-1184-1-ND	.57	3.37	9.73	511-1184-2-ND	4,000	9.00/M	MCH185FN223ZK
			47,000pF	+80/-20%	511-1185-1-ND	.57	3.37	9.73	511-1185-2-ND	4,000	9.00/M	MCH185FN473ZK
		25	0.10µF	+80/-20%	511-1186-1-ND	.44	2.59	7.48	511-1186-2-ND	4,000	7.00/M	MCH182FN104ZK
		16	0.22µF	+80/-20%	511-1187-1-ND	.48	2.85	8.23	511-1187-2-ND	4,000	8.00/M	MCH183FN224ZK

COMPONENTS

Surface Mount Multilayer Ceramic Chip Capacitors

Features:
- High capacitance per unit volume
- For high frequency applications
- Ni-barrier terminations

Applications:
- Consumer electronics
- Telecommunications
- Automotive
- Data processing

The capacitor consists of a rectangular block of ceramic dielectric in which a number of interleaved metal electrodes are contained.

This structure gives rise to a high capacitance per unit volume.

The inner electrodes are connected to the two terminations by silver or copper dipping with a barrier layer of plated nickel and finally covered with a layer of plated tin (NiSn).

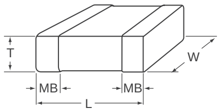

Case Size	L	W	T Min.	T Max.	MB
0402	.040" (1.0mm)	.020" (0.5mm)	.018" (.45mm)	.022" (.55mm)	.010" (.25mm)
0603	.063" (1.6mm)	.030" (0.8mm)	.029" (.73mm)	.035" (.87mm)	.015" (.40mm)
0805	.080" (2.0mm)	.050" (1.25mm)	.020" (.50mm)	.053" (1.35mm)	.020" (.50mm)
1206	.125" (3.2mm)	.063" (1.60mm)	.020" (.50mm)	.069" (1.75mm)	.025" (.60mm)
1812	.180" (4.5mm)	.125" (3.2mm)	.020" (.50mm)	.072" (1.80mm)	.030" (.75mm)

Case Size	Type	WV DC	Capacitance	Tolerance	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		BC Components Part No.
						10	100	500		Size	Pricing	
0402	NPO	50	1.5pF	±0.25pF	BC1189CT-ND	.66	3.90	11.25	—	—	—	VJ0402A1R5CXACW1BC
		50	1.8pF	±0.25pF	BC1190CT-ND	.29	1.69	4.88	BC1190TR-ND	10,000	3.90/M	VJ0402A1R8CXACW1BC
		50	2.7pF	±0.25pF	BC1191CT-ND	.29	1.69	4.88	—	—	—	VJ0402A2R7CXACW1BC
		50	3.3pF	±0.25pF	BC1192CT-ND	.29	1.69	4.88	—	—	—	VJ0402A3R3CXACW1BC
		50	5.6pF	±0.50pF	BC1193CT-ND	.29	1.69	4.88	—	—	—	VJ0402A5R6DXACW1BC
		50	12pF	±5%	BC1196CT-ND	.29	1.69	4.88	BC1196TR-ND	10,000	3.90/M	VJ0402A120JXACW1BC
		50	22pF	±5%	BC1197CT-ND	.29	1.69	4.88	—	—	—	VJ0402A220JXACW1BC
		50	47pF	±5%	BC1201CT-ND	.29	1.69	4.88	BC1201TR-ND	10,000	3.90/M	VJ0402A470JXACW1BC
		50	56pF	±5%	BC1202CT-ND	.29	1.69	4.88	—	—	—	VJ0402A560JXACW1BC
		50	100pF	±5%	BC1204CT-ND	.29	1.69	4.88	BC1204TR-ND	10,000	3.90/M	VJ0402A101JXACW1BC
	X7R	50	220pF	±10%	BC1205CT-ND	.28	1.63	4.69	—	—	—	VJ0402Y221KXACW1BC
		50	330pF	±10%	BC1206CT-ND	.28	1.63	4.69	—	—	—	VJ0402Y331KXACW1BC
		50	470pF	±10%	BC1207CT-ND	.28	1.63	4.69	BC1207TR-ND	10,000	3.75/M	VJ0402Y471KXACW1BC
		50	560pF	±10%	BC1208CT-ND	.28	1.63	4.69	—	—	—	VJ0402Y561KXACW1BC
		50	1000pF	±10%	BC1210CT-ND	.68	4.03	11.63	—	—	—	VJ0402Y102KXACW1BC
		50	1500pF	±10%	BC1212CT-ND	.28	1.63	4.69	—	—	—	VJ0402Y152KXACW1BC
		16	4700pF	±10%	BC1214CT-ND	.28	1.63	4.69	—	—	—	VJ0402Y472KXJCW1BC
		16	10000pF	±10%	BC1217CT-ND	.28	1.63	4.69	—	—	—	VJ0402Y103KXJCW1BC
	Y5V	16	10000pF	+80/-20%	BC1218CT-ND	.28	1.63	4.69	BC1218TR-ND	10,000	3.75/M	VJ0402V103ZXJCW1BC
		16	33000pF	+80/-20%	BC1220CT-ND	.55	3.25	9.38	—	—	—	VJ0402V333ZXJCW1BC
		16	47000pF	+80/-20%	BC1221CT-ND	.28	1.63	4.69	BC1221TR-ND	10,000	3.75/M	VJ0402V473ZXJCW1BC
		16	.10µF	+80/-20%	BC1222CT-ND	.25	1.50	4.31	BC1222TR-ND	10,000	3.45/M	VJ0402V104ZXJCW1BC
0603	NPO	50	1.0pF	±0.25pF	BC1223CT-ND	.30	1.76	5.06	—	—	—	VJ0603A1R0CXACW1BC
		50	10pF	±5%	BC1225CT-ND	.30	1.76	5.06	BC1225TR-ND	4,000	4.86/M	VJ0603A100JXACW1BC
		50	12pF	±5%	BC1226CT-ND	.30	1.76	5.06	—	—	—	VJ0603A120JXACW1BC
		50	27pF	±5%	BC1230CT-ND	.30	1.76	5.06	—	—	—	VJ0603A270JXACW1BC
		50	33pF	±5%	BC1231CT-ND	.30	1.76	5.06	—	—	—	VJ0603A330JXACW1BC
		50	47pF	±5%	BC1232CT-ND	.30	1.76	5.06	—	—	—	VJ0603A470JXACW1BC
		50	56pF	±5%	BC1233CT-ND	.30	1.76	5.06	—	—	—	VJ0603A560JXACW1BC
		50	100pF	±5%	BC1236CT-ND	.30	1.76	5.06	BC1236TR-ND	4,000	4.86/M	VJ0603A101JXACW1BC
		50	150pF	±5%	BC1238CT-ND	.37	2.21	6.38	—	—	—	VJ0603A151JXACW1BC
		50	180pF	±5%	BC1239CT-ND	.41	2.41	6.94	—	—	—	VJ0603A181JXACW1BC
		50	220pF	±5%	BC1240CT-ND	.41	2.41	6.94	—	—	—	VJ0603A221JXACW1BC
		50	270pF	±5%	BC1241CT-ND	.52	3.06	8.81	BC1241TR-ND	4,000	8.46/M	VJ0603A271JXACW1BC
	X7R	50	220pF	±10%	BC1244CT-ND	.29	1.69	4.88	BC1244TR-ND	4,000	4.68/M	VJ0603Y221KXACW1BC
		50	560pF	±10%	BC1246CT-ND	.29	1.69	4.88	—	—	—	VJ0603Y561KXACW1BC
		50	2200pF	±10%	BC1248CT-ND	.29	1.69	4.88	—	—	—	VJ0603Y222KXACW1BC
		50	3300pF	±10%	BC1249CT-ND	.29	1.69	4.88	BC1249TR-ND	4,000	4.68/M	VJ0603Y332KXACW1BC
		50	4700pF	±10%	BC1250CT-ND	.29	1.69	4.88	—	—	—	VJ0603Y472KXACW1BC
0805	NPO	50	10pF	±5%	BC1256CT-ND	.52	3.06	8.81	—	—	—	VJ0805A100JXACW1BC
		50	12pF	±5%	BC1257CT-ND	.52	3.06	8.81	BC1257TR-ND	4,000	8.46/M	VJ0805A120JXACW1BC
		50	15pF	±5%	BC1258CT-ND	.52	3.06	8.81	BC1258TR-ND	4,000	8.46/M	VJ0805A150JXACW1BC
		50	33pF	±5%	BC1262CT-ND	.52	3.06	8.81	—	—	—	VJ0805A330JXACW1BC
		50	39pF	±5%	BC1263CT-ND	.52	3.06	8.81	BC1263TR-ND	4,000	8.46/M	VJ0805A390JXACW1BC
		50	47pF	±5%	BC1264CT-ND	.52	3.06	8.81	BC1264TR-ND	4,000	8.46/M	VJ0805A470JXACW1BC
		50	68pF	±5%	BC1266CT-ND	.52	3.06	8.81	BC1266TR-ND	4,000	8.46/M	VJ0805A680JXACW1BC
		50	100pF	±5%	BC1268CT-ND	.52	3.06	8.81	—	—	—	VJ0805A101JXACW1BC
		50	120pF	±5%	BC1269CT-ND	.68	4.03	11.63	BC1269TR-ND	4,000	11.16/M	VJ0805A121JXACW1BC
		50	150pF	±5%	BC1270CT-ND	.81	4.81	13.88	BC1270TR-ND	4,000	13.32/M	VJ0805A151JXACW1BC
		50	330pF	±5%	BC1274CT-ND	.98	5.79	16.69	BC1274TR-ND	4,000	16.02/M	VJ0805A331JXACW1BC
		50	1000pF	±5%	BC1279CT-ND	1.01	5.98	17.25	—	—	—	VJ0805A102JXACW1BC
	X7R	50	220pF	±10%	BC1280CT-ND	.52	3.06	8.81	BC1280TR-ND	4,000	8.46/M	VJ0805Y221KXACW1BC
		50	1000pF	±10%	BC1284CT-ND	.52	3.06	8.81	—	—	—	VJ0805Y102KXACW1BC
		50	1500pF	±10%	BC1285CT-ND	.52	3.06	8.81	—	—	—	VJ0805Y152KXACW1BC
		50	2700pF	±10%	BC1287CT-ND	.52	3.06	8.81	—	—	—	VJ0805Y272KXACW1BC
		50	3900pF	±10%	BC1289CT-ND	.52	3.06	8.81	—	—	—	VJ0805Y392KXACW1BC
		50	4700pF	±10%	BC1290CT-ND	.52	3.06	8.81	—	—	—	VJ0805Y472KXACW1BC
		50	5600pF	±10%	BC1291CT-ND	.52	3.06	8.81	BC1291TR-ND	4,000	8.46/M	VJ0805Y562KXACW1BC
		50	10000pF	±10%	BC1293CT-ND	.52	3.06	8.81	—	—	—	VJ0805Y103KXACW1BC
		50	27000pF	±10%	BC1297CT-ND	.63	3.71	10.69	—	—	—	VJ0805Y273KXACW1BC
		50	.10µF	±10%	BC1298CT-ND	.72	4.23	12.19	—	—	—	VJ0805Y104KXATW1BC
		16	.10µF	±10%	BC1300CT-ND	.68	4.03	11.63	BC1300TR-ND	4,000	11.16/M	VJ0805Y104KXJCW1BC
1206	NPO	50	10pF	±5%	BC1304CT-ND	1.45	8.58	24.75	BC1304TR-ND	4,000	23.76/M	VJ1206A100JXACW1BC
		50	15pF	±5%	BC1305CT-ND	1.45	8.58	24.75	BC1305TR-ND	4,000	23.76/M	VJ1206A150JXACW1BC
		50	22pF	±5%	BC1307CT-ND	1.45	8.58	24.75	BC1307TR-ND	4,000	23.76/M	VJ1206A220JXACW1BC
		50	27pF	±5%	BC1308CT-ND	1.45	8.58	24.75	BC1308TR-ND	4,000	23.76/M	VJ1206A270JXACW1BC
		50	33pF	±5%	BC1309CT-ND	1.45	8.58	24.75	BC1309TR-ND	4,000	23.76/M	VJ1206A330JXACW1BC
		50	39pF	±5%	BC1310CT-ND	1.45	8.58	24.75	BC1310TR-ND	4,000	23.76/M	VJ1206A390JXACW1BC
		50	47pF	±5%	BC1311CT-ND	1.45	8.58	24.75	BC1311TR-ND	4,000	23.76/M	VJ1206A470JXACW1BC
		50	100pF	±5%	BC1314CT-ND	1.45	8.58	24.75	BC1314TR-ND	4,000	23.76/M	VJ1206A101JXACW1BC
		50	1000pF	±5%	BC1316CT-ND	2.23	13.20	38.06	—	—	—	VJ1206A102JXACW1BC
	X7R	50	2200pF	±10%	BC1318CT-ND	1.35	8.00	23.06	BC1318TR-ND	4,000	22.14/M	VJ1206Y222KXACW1BC
		50	10000pF	±10%	BC1321CT-ND	1.35	8.00	23.06	—	—	—	VJ1206Y103KXACW1BC
1812	X7R	1KV	1000pF	±10%	BC1329CT-ND	15.18	89.70	258.75	—	—	—	VJ1812Y102KXGTW1BC

THIN FILM TECHNOLOGY

SUSUMU CO., LTD HTC Series High-Precision, Thin-Film Chip Capacitors

Features:
- Tight tolerance
- Low equivalent series resistance
- Face-down use also possible, leading to space savings

Operating Temperature Range: -40 ~ 85°C **Temperature Coefficient ppm/°C:** 0±60ppm/°C

Case Size	Dimension - mm L	W	P	T
0201	0.60	0.30	0.07	0.28
0402	1.00	0.50	0.15	0.38

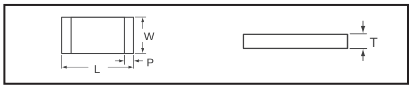

WV DC	Cap. (pf)	Tolerance	Digi-Key Part No.	Cut Tape Price Each 10	100	500	T & R Pricing* 5,000	Susumu Part No.
					0201 Series			
25	.10	±0.035pf	408-1050-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R10-T35-L5
	.15	±0.035pf	408-1051-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R15-T35-L5
	.20	±0.035pf	408-1052-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R20-T35-L5
	.25	±0.035pf	408-1053-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R25-T35-L5
	.30	±0.035pf	408-1054-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R30-T35-L5
	.35	±0.035pf	408-1055-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R35-T35-L5
	.40	±0.035pf	408-1056-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R40-T35-L5
	.45	±0.035pf	408-1057-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R45-T35-L5
	.50	±0.035pf	408-1058-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R50-T35-L5
	.60	±0.035pf	408-1059-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R60-T35-L5
	.70	±0.035pf	408-1060-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R70-T35-L5
	.80	±5%	408-1061-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R80-J-L5
	.90	±5%	408-1062-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-R90-J-L5
	1.0	±5%	408-1063-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-1R0-J-L5
	1.2	±5%	408-1064-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-1R2-J-L5
	1.5	±5%	408-1065-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-1R5-J-L5
	1.8	±5%	408-1066-1-ND	.73	.43	.25	118.80/M	HTC0603-1E-1R8-J-L5
					0402 Series			
25	.10	±0.035pf	408-1067-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R10-T35-L5
	.15	±0.035pf	408-1068-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R15-T35-L5
	.20	±0.035pf	408-1069-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R20-T35-L5
	.25	±0.035pf	408-1070-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R25-T35-L5
	.30	±0.035pf	408-1071-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R30-T35-L5
					0402 Series (Cont.)			
25	.35	±0.035pf	408-1072-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R35-T35-L5
	.40	±0.035pf	408-1073-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R40-T35-L5
	.45	±0.035pf	408-1074-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R45-T35-L5
	.50	±0.035pf	408-1075-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R50-T35-L5
	.60	±0.035pf	408-1076-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R60-T35-L5
	.70	±0.035pf	408-1077-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R70-T35-L5
	.80	±5%	408-1078-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R80-J-L5
	.90	±5%	408-1079-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-R90-J-L5
	1.0	±5%	408-1080-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-1R0-J-L5
	1.2	±5%	408-1081-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-1R2-J-L5
	1.5	±5%	408-1082-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-1R5-J-L5
	1.8	±5%	408-1083-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-1R8-J-L5
	2.2	±5%	408-1084-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-2R2-J-L5
	2.7	±5%	408-1085-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-2R7-J-L5
	3.3	±5%	408-1086-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-3R3-J-L5
	3.9	±5%	408-1087-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-3R9-J-L5
	4.7	±5%	408-1088-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-4R7-J-L5
	5.6	±5%	408-1089-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-5R6-J-L5
	6.8	±5%	408-1090-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-6R8-J-L5
	8.2	±5%	408-1091-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-8R2-J-L5
	10	±5%	408-1092-1-ND	.91	.54	.31	147.60/M	HTC1005-1E-10R-J-L5

* For Tape and Reel part number, change 1-ND to 2-ND.

CDE CORNELL DUBILIER

Surface Mount MICA Capacitors

Cornell Dubilier mica capacitors are made of pure India Ruby muscovite mica. It is among the most inert and stable materials in the universe. When used as the insulator (dielectric) in a capacitor, the result is an electronic component with the ultimate in stability and reliability.

The capacitance change from zero to full rated operating voltage is generally less than ±0.1%. The series inductance of these capacitors is as little as eight nanohenrys (nH). The stability characteristics also apply to frequency which is why mica capacitors are so useful in the gigahertz range.

- Low impedance to beyond 1 GHz
- Near-zero capacitance change, all environments

SPECIFICATIONS:

Capacitance Tolerance:
- **Manufacturer's part number suffix letter:** D= ±0.5pF
- **Manufacturer's part number suffix letter:** J = ±5%

Temperature Range: -55°C ~ 125°C

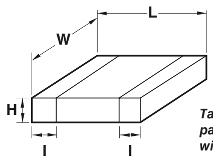

Tape and Reel packaging available with lead time.

Size Code	Vdc	Temperature Coefficient ppm/°C	Capacitance	Dimensions: Inch (mm) L	W	H	I (Max.)	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
0805	100	50±50	20pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1012-ND	1.02	.87	.73	MC08EA200J
1210	500	100±100	5.0pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1032-ND	1.26	1.08	.90	MC12CD050D
		50±50	18pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1030-ND	1.30	1.11	.93	MC12ED180J
	100	25±25	47pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1017-ND	1.19	1.02	.85	MC12FA470J
		25±25	68pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1041-ND	1.19	1.02	.85	MC12FA680J
		25±25	150pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1007-ND	1.30	1.11	.93	MC12FA151J
		25±25	150pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1028-ND†	3.12	2.67	2.23	MC12FA151F
		25±25	200pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1024-ND	1.40	1.20	1.00	MC12FA201J
1812	500	25±25	100pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1025-ND	1.58	1.35	1.13	MC18FD101J
		25±25	470pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1018-ND	2.21	1.89	1.58	MC18FD471J
2220	500	25±25	750pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1011-ND	3.01	2.58	2.15	MC22FD751J
						RoHS Compliants						
0805	100	100±100	2.0pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1096-ND	1.02	.87	.73	MC08CA020D-F
		100±100	3.0pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1097-ND	1.02	.87	.73	MC08CA030D-F
		100±100	5.0pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1098-ND	1.02	.87	.73	MC08CA050D-F
		100±100	10pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1099-ND	1.02	.87	.73	MC08CA100D-F
		50±50	15pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1100-ND	1.02	.87	.73	MC08EA150J-F
		50±50	20pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1101-ND	1.02	.87	.73	MC08EA200J-F
		50±50	22pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1102-ND	1.02	.87	.73	MC08EA220J-F
		50±50	27pF	.079 (2.0)	.049 (1.25)	.055 (1.4)	.035 (.9)	338-1103-ND	1.02	.87	.73	MC08EA270J-F
1210	500	100±100	5.0pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1104-ND	1.26	1.08	.90	MC12CD050D-F
		100±100	10pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1105-ND	1.26	1.08	.90	MC12CD100D-F
		50±50	15pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1106-ND	1.30	1.11	.93	MC12ED150J-F
		50±50	18pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1107-ND	1.30	1.11	.93	MC12ED180J-F
		25±25	100pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1116-ND	1.58	1.35	1.13	MC12FD101J-F
		25±25	33pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1117-ND	1.30	1.11	.93	MC12FD330J-F
		25±25	47pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1118-ND	1.30	1.11	.93	MC12FD470J-F
		25±25	62pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1119-ND	1.30	1.11	.93	MC12FD620J-F
		25±25	68pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1120-ND	1.30	1.11	.93	MC12FD680J-F
	100	25±25	100pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1108-ND	1.26	1.08	.90	MC12FA101J-F
		25±25	150pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1109-ND†	3.12	2.67	2.23	MC12FA151F-F
		25±25	47pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1114-ND	1.19	1.02	.85	MC12FA470J-F
		25±25	68pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1115-ND	1.19	1.02	.85	MC12FA680J-F
		25±25	150pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1110-ND	1.30	1.11	.93	MC12FA151J-F
		25±25	200pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1111-ND	1.40	1.20	1.00	MC12FA201J-F
		25±25	220pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1112-ND	1.40	1.20	1.00	MC12FA221J-F
		25±25	240pF	.126 (3.2)	.098 (2.5)	.059 (1.5)	.043 (1.1)	338-1113-ND	1.40	1.20	1.00	MC12FA241J-F

† 1% Tolerance

(Continued)

Surface Mount MICA Capacitors *(Cont.)*

Size Code	Vdc	Temperature Coefficient ppm/°C	Capacitance	Dimensions: Inch (mm) L	W	H	I (Max.)	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
1812	500	25±25	100pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1122-ND	1.58	1.35	1.13	MC18FD101J-F
		25±25	120pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1123-ND	1.58	1.35	1.13	MC18FD121J-F
		25±25	220pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1124-ND	1.75	1.50	1.25	MC18FD221J-F
		25±25	300pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1125-ND	1.93	1.65	1.38	MC18FD301J-F
		25±25	330pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1126-ND	1.93	1.65	1.38	MC18FD331J-F
		25±25	390pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1127-ND	2.21	1.89	1.58	MC18FD391J-F
		25±25	470pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1128-ND	2.21	1.89	1.58	MC18FD471J-F
	100	25±25	470pF	.177 (4.5)	.126 (3.2)	.079 (2.0)	.051 (1.3)	338-1121-ND	1.86	1.59	1.33	MC18FA471J-F
2220	1000	25±25	430pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1135-ND	3.00	2.58	2.15	MC22FF431J-F
		25±25	470pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1136-ND	3.00	2.58	2.15	MC22FF471J-F
		25±25	1000pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1134-ND	4.04	3.47	2.89	MC22FF102J-F
	500	25±25	500pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1132-ND	2.70	2.31	1.93	MC22FD501J-F
		25±25	750pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1133-ND	3.01	2.58	2.15	MC22FD751J-F
		25±25	1000pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1131-ND	3.36	2.88	2.40	MC22FD102J-F
	100	25±25	1000pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1129-ND	2.94	2.52	2.10	MC22FA102J-F
		25±25	2000pF	.224 (5.7)	.197 (5.0)	.079 (2.0)	.051 (1.3)	338-1130-ND	3.89	3.33	2.78	MC22FA202J-F

† 1% Tolerance

Dipped Silver MICA Capacitors — Radial Lead

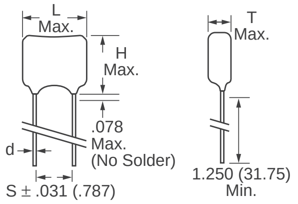

Cornell Dubilier mica capacitors are made of pure India Ruby muscovite mica. It is among the most inert and stable materials in the universe. When used as the insulator (dielectric) in a capacitor, the result is an electronic component with the ultimate in stability and reliability.

The capacitance change from zero to full rated operating voltage is generally less than ±0.1%. The series inductance of these capacitors is as little as eight nanohenrys (nH). The stability characteristics also apply to frequency which is why mica capacitors are so useful in the gigahertz range.

Mica capacitors are so efficient that less that 0.05% of the applied volt-amperes is lost as heat. Dipped silver mica capacitors such as the Standard Types are manufactured by applying pure silver to ultra-thin mica plates. The plates are stacked and secured by brass clips with copper-clad steel leads welded to each clip. The extra mass of the metal acts as a heat sink and enables these capacitors to absorb voltage transients up to 100,000 volts per microsecond.

SPECIFICATIONS:

Capacitance Tolerance:
- **Manufacturer's part number letter:** D03 = ±1/2 pF
- **Manufacturer's part number letter:** J03 = ±5%
- **Manufacturer's part number letter:** F03 = ±1%

Temperature Range: -55°C ~ 125°C

F

Voltage	Capacitance	Temperature Coefficient ppm/°C	Dimensions: Inch (mm) L Max.	H Max.	T Max.	S	d	Digi-Key Part No.	Price Each 1	10	100	Cornell Dubilier Part No.
						Standard						
100	1000pF	0 ~ 70	.480 (12.2)	.400 (10.2)	.230 (5.8)	.234 (5.9)	.025 (.6)	338-1048-ND	3.80	3.26	2.72	CD15FA102J03
	1000pF	0 ~ 70	.480 (12.2)	.400 (10.2)	.230 (5.8)	.234 (5.9)	.025 (.6)	338-1092-ND	6.41	5.50	4.58	CD15FA102F03
300	680pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1060-ND	3.49	3.00	2.50	CD15FC681J03
	560pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1081-ND	2.89	2.49	2.07	CD15FC561J03
500	5pF	-200 ~ 200	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1064-ND	2.22	1.90	1.59	CD10CD050D03
	10pF	-200 ~ 200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1061-ND	1.14	.98	.82	CD15CD100J03
	10pF	-200 ~ 200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1068-ND	1.14	.98	.82	CD15CD100D03
	15pF	-200 ~ 200	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1088-ND	2.22	1.90	1.59	CD10CD150J03
	15pF	-200 ~ 200	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1054-ND	1.09	.93	.78	CD15CD150J03
	20pF	-20 ~ 100	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1095-ND	1.69	1.45	1.21	CD10ED200J03
	20pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1051-ND	1.09	.93	.78	CD15ED200J03
	22pF	-20 ~ 100	.360 (9.1)	.330 (8.4)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1070-ND	1.69	1.45	1.21	CD10ED220J03
	22pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1049-ND	1.13	.98	.81	CD15ED220J03
	27pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1085-ND	1.13	.98	.81	CD15ED270J03
	30pF	-20 ~ 100	.370 (9.4)	.340 (8.6)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1076-ND	1.69	1.45	1.21	CD10ED300J03
	30pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1056-ND	1.13	.98	.81	CD15ED300J03
	33pF	-20 ~ 100	.370 (9.4)	.340 (8.6)	.190 (4.8)	.141 (3.6)	.016 (.4)	338-1072-ND	1.69	1.45	1.21	CD10ED330J03
	33pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1047-ND	1.13	.98	.81	CD15ED330J03
	39pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1093-ND	1.13	.98	.81	CD15ED390J03
	47pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1053-ND	1.11	.95	.79	CD15ED470J03
	68pF	-20 ~ 100	.450 (11.4)	.360 (9.1)	.170 (4.3)	.234 (5.9)	.025 (.6)	338-1091-ND	1.16	1.00	.83	CD15ED680J03
	100pF	0 ~ 70	.370 (9.4)	.350 (8.9)	.200 (5.1)	.141 (3.6)	.016 (.4)	338-1050-ND	2.05	1.77	1.47	CD10FD101J03
	100pF	0 ~ 70	.460 (11.7)	.360 (9.1)	.180 (4.6)	.234 (5.9)	.025 (.6)	338-1042-ND	1.16	1.00	.83	CD15FD101J03
	120pF	0 ~ 70	.460 (11.7)	.370 (9.4)	.180 (4.6)	.234 (5.9)	.025 (.6)	338-1058-ND	1.26	1.09	.91	CD15FD121J03
	150pF	0 ~ 70	.460 (11.7)	.370 (9.4)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1052-ND	1.34	1.15	.96	CD15FD151J03
	180pF	0 ~ 70	.460 (11.7)	.370 (9.4)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1082-ND	1.53	1.32	1.10	CD15FD181J03
	200pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.190 (4.8)	.234 (5.9)	.025 (.6)	338-1063-ND	1.53	1.32	1.10	CD15FD201J03
	220pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.200 (5.1)	.234 (5.9)	.025 (.6)	338-1046-ND	1.58	1.36	1.13	CD15FD221J03
	240pF	0 ~ 70	.460 (11.7)	.380 (9.7)	.200 (5.1)	.234 (5.9)	.025 (.6)	338-1079-ND	1.70	1.46	1.22	CD15FD241J03
	270pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1062-ND	1.85	1.59	1.33	CD15FD271J03
	300pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1065-ND	2.00	1.72	1.43	CD15FD301J03
	330pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1045-ND	2.16	1.85	1.54	CD15FD331J03
	390pF	0 ~ 70	.470 (11.9)	.390 (9.9)	.210 (5.3)	.234 (5.9)	.025 (.6)	338-1057-ND	2.34	2.01	1.67	CD15FD391J03
	470pF	0 ~ 70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1043-ND	2.72	2.33	1.94	CD15FD471J03
	470pF	0 ~ 70	.640 (16.3)	.510 (13.0)	.200 (5.1)	.344 (8.7)	.032 (.8)	338-1089-ND	1.69	1.46	1.21	CD19FD471J03
	500pF	0 ~ 70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1069-ND	2.79	2.40	2.00	CD15FD501J03
	510pF	0 ~ 70	.470 (11.9)	.400 (10.2)	.220 (5.6)	.234 (5.9)	.025 (.6)	338-1077-ND	2.90	2.49	2.08	CD15FD511J03
	680pF	0 ~ 70	.650 (16.5)	.510 (13.0)	.210 (5.3)	.344 (8.7)	.032 (.8)	338-1086-ND	1.99	1.71	1.43	CD19FD681J03
	820pF	0 ~ 70	.650 (16.5)	.510 (13.0)	.210 (5.3)	.344 (8.7)	.032 (.8)	338-1094-ND	1.97	1.70	1.41	CD19FD821J03
	1000pF	0 ~ 70	.650 (16.5)	.520 (13.2)	.220 (5.6)	.344 (8.7)	.025 (.6)	338-1044-ND	2.11	1.81	1.51	CD19FD102J03
	1500pF	0 ~ 70	.660 (16.8)	.520 (13.2)	.230 (5.8)	.344 (8.7)	.032 (.8)	338-1071-ND	2.73	2.35	1.96	CD19FD152J03
	2000pF	0 ~ 70	.670 (17.0)	.530 (13.5)	.240 (6.1)	.344 (8.7)	.032 (.8)	338-1074-ND	3.48	2.98	2.49	CD19FD202J03
	2200pF	0 ~ 70	.670 (17.0)	.530 (13.5)	.250 (6.4)	.344 (8.7)	.032 (.8)	338-1055-ND	3.49	3.00	2.50	CD19FD222J03
	4700pF	0 ~ 70	.700 (17.8)	.580 (14.7)	.350 (8.9)	.344 (8.7)	.032 (.8)	338-1067-ND	7.04	6.04	5.03	CD19FD472J03
	10000pF	0 ~ 70	.800 (20.3)	.890 (22.6)	.340 (8.6)	.438 (11.1)	.040 (1.0)	338-1078-ND	12.82	10.99	9.16	CD30FD103J03
						Miniature						
300	5pF	-200 ~ 200	.270 (6.9)	.190 (4.8)	.110 (2.8)	.120 (3.0)	.016 (.4)	338-1073-ND	1.94	1.67	1.39	CD5CC050D03
	10pF	-200 ~ 200	.270 (6.9)	.190 (4.8)	.110 (2.8)	.120 (3.0)	.016 (.4)	338-1090-ND	1.38	1.18	.99	CD5CC100J03
	15pF	-200 ~ 200	.270 (6.9)	.190 (4.8)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1083-ND	1.45	1.24	1.04	CD5CC150J03
	20pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1075-ND	1.47	1.27	1.06	CD5EC200J03
	22pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.120 (3.0)	.120 (3.0)	.016 (.4)	338-1080-ND	1.53	1.32	1.10	CD5EC220J03
	30pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.130 (3.3)	.120 (3.0)	.016 (.4)	338-1087-ND	1.65	1.42	1.18	CD5EC300J03
	33pF	-20 ~ 100	.270 (6.9)	.200 (5.1)	.130 (3.3)	.120 (3.0)	.016 (.4)	338-1066-ND	1.70	1.46	1.22	CD5EC330J03
	47pF	-20 ~ 100	.270 (6.9)	.210 (5.3)	.140 (3.6)	.120 (3.0)	.016 (.4)	338-1084-ND	1.90	1.63	1.36	CD5EC470J03
	100pF	0 ~ 70	.270 (6.9)	.240 (6.1)	.180 (4.6)	.120 (3.0)	.016 (.4)	338-1059-ND	2.81	2.41	2.01	CD5FC101J03

Ceramic Trimmer Capacitors – TZ03 Series

Dim. in mm

Color coded case facilitates identification of capacitance range. Sealed construction prevents the penetration of flux and dust. Cross shaped slot enables automatic adjustment.

Specifications:

- Insulation Resistance: 10,000MΩ minimum
- Torque: 2.0-15.0mNm
- Operating Temperature Range: -25°C ~ 85°C

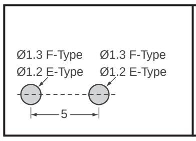

Fig. 1

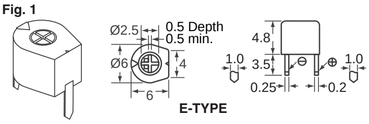

E-TYPE

Fig. 2

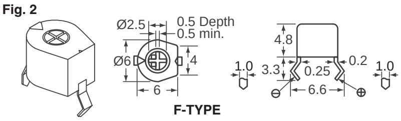

F-TYPE

Fig.	C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Stator/ Case Color	Digi-Key Part No.	Price Each 1	10	100	Murata Part No.
1	1.25	2.3 + 50/-0%	NPO ± 200ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Black	490-1972-ND	.38	.33	.30	TZ03Z2R3E169B00
	1.5	5.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1966-ND	.38	.33	.30	TZ03Z050E169B00
	2.0	7.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1968-ND	.38	.33	.30	TZ03Z070E169B00
	2.7	10.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1970-ND	.38	.33	.30	TZ03Z100E169B00
	3.0	11.0 + 50/-0%	N450 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1964-ND	.38	.33	.30	TZ03T110E169B00
	4.2	20.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1958-ND	.38	.33	.30	TZ03R200E169B00
	5.2	30.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1960-ND	.38	.33	.30	TZ03R300E169B00
	6.8	45.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Yellow	490-1952-ND	.38	.33	.30	TZ03P450E169B00
	9.8	60.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1954-ND	.38	.33	.30	TZ03P600E169B00
	6.0	50.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Orange	490-1974-ND	.93	.80	.74	TZ03Z500E169B00
	9.0	90.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Dot	490-1962-ND	.93	.80	.74	TZ03R900E169B00
	10.0	120.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black	490-1956-ND	.93	.80	.74	TZ03R121E169B00
2	1.25	2.3 + 50/-0%	NPO ± 200ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Black	490-1973-ND	.38	.33	.30	TZ03Z2R3F169B00
	1.5	5.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1967-ND	.38	.33	.30	TZ03Z050F169B00
	2.0	7.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1969-ND	.38	.33	.30	TZ03Z070F169B00
	2.7	10.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1971-ND	.38	.33	.30	TZ03Z100F169B00
	3.0	11.0 + 50/-0%	N450 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1965-ND	.38	.33	.30	TZ03T110F169B00
	4.2	20.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1959-ND	.38	.33	.30	TZ03R200F169B00
	5.2	30.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1961-ND	.38	.33	.30	TZ03R300F169B00
	6.8	45.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Yellow	490-1953-ND	.38	.33	.30	TZ03P450F169B00
	9.8	60.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1955-ND	.38	.33	.30	TZ03P600F169B00
	6.0	50.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Orange	490-1975-ND	.93	.80	.74	TZ03Z500F169B00
	9.0	90.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Dot	490-1963-ND	.93	.80	.74	TZ03R900F169B00
	10.0	120.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black	490-1957-ND	.93	.80	.74	TZ03R121F169B00
—	Tuning Tool for Manual Adjustment							490-2607-ND	6.27	—	—	KMDR010

SMD Ceramic Trimmer Capacitors – TZY2 Series

Dim. in mm

New shape of cover can improve the flux invasion compared with current products. Improvement of the adhesion between rotor and stator leads superior stability. Unique construction with no plastic material provides superior soldering heat resistance to maintain excellent characteristic performance after reflow soldering.

Specifications:

- Insulation Resistance: 10,000MΩ minimum
- Torque: 0.5-5.0mNm
- Operating Temperature Range: -25°C ~ 85°C

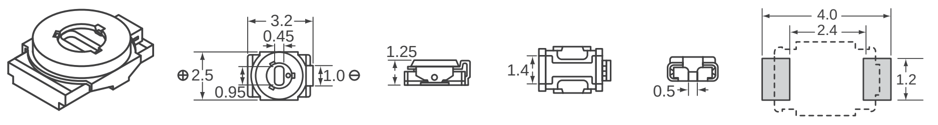

C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Murata Part No.
0.5	1.0 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2009-1-ND	.89	.78	.62	490-2009-2-ND	333.75/M	TZY2Z010A001R00
0.65	2.5 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2008-1-ND	.69	.60	.47	490-2008-2-ND	255.45/M	TZY2Z2R5A001R00
1.5	3.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2005-1-ND	.69	.60	.47	490-2005-2-ND	255.45/M	TZY2Z030A001R00
2.5	6.0 + 100/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2006-1-ND	.69	.60	.47	490-2006-2-ND	255.45/M	TZY2Z060A001R00
3.0	10.0 + 100/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2007-1-ND	.69	.60	.47	490-2007-2-ND	255.45/M	TZY2Z100A001R00
4.5	20.0 + 100/-0%	N750 ± 500ppm/°C	500 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2003-1-ND	.69	.60	.47	490-2003-2-ND	255.45/M	TZY2R200A001R00
5.5	25.0 + 100/-0%	N750 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2004-1-ND	.69	.60	.47	490-2004-2-ND	255.45/M	TZY2R250A001R00
8.0	45.0 + 100/-0%	N1000 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2002-1-ND	.83	.73	.58	490-2002-2-ND	311.55/M	TZY2K450A001R00
Tuning Tool for Manual Adjustment						490-2608-ND	16.02/1			—	—	KMDR060

SMD Ceramic Trimmer Capacitors – TZR1 Series

Dim. in mm

Unique construction with no plastic material provides superior soldering heat resistance to maintain excellent characteristic performance after reflow soldering. Harmful materials (lead, etc.) are not contained in the product.

Specifications:

- Insulation Resistance: 10,000MΩ minimum
- Torque: 0.1-1.0mNm
- Operating Temperature Range: -25°C ~ 85°C

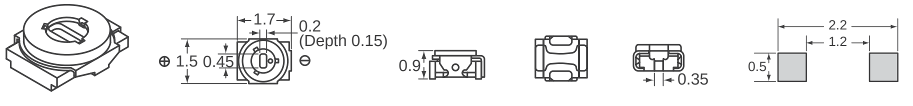

C min. (pF) max.	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Murata Part No.
0.55	1.0 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2012-1-ND	2.12	1.86	1.46	490-2012-2-ND	3,000	795.30/M	TZR1Z010A001R00
0.7	1.5 + 100/-0%	NPO ± 300ppm/°C	200 min. @ 200MHz, Cmax.	25Vdc	55Vdc	490-2013-1-ND	2.12	1.86	1.46	490-2013-2-ND	3,000	795.30/M	TZR1Z1R5A001R00
1.5	4.0 + 100/-0%	NPO ± 500ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2010-1-ND	1.44	1.27	1.00	490-2010-2-ND	3,000	540.15/M	TZR1Z040A001R00
3.0	8.0 + 100/-0%	N750 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	25Vdc	55Vdc	490-2011-1-ND	1.44	1.27	1.00	490-2011-2-ND	3,000	540.15/M	TZR1R080A001R00
Tuning Tool for Manual Adjustment						490-2609-ND	27.16/1			—	—	—	KMDR160

SMD Ceramic Trimmer Capacitors – TZC3 Series

Color coded stator permits easy identification of capacitance and reduces mounting errors. Can be adjusted with conventional adjustment tools having a thickness of 0.5mm. Designed for automatic placement in surface mount applications. Heat resistant resin withstands reflow soldering temperatures.

Specifications: • Insulation Resistance: 10,000MΩ minimum • Torque: 1.5-10.0mNm • Operating Temperature Range: -25°C ~ 85°C

Dim. in mm

Fig. 1

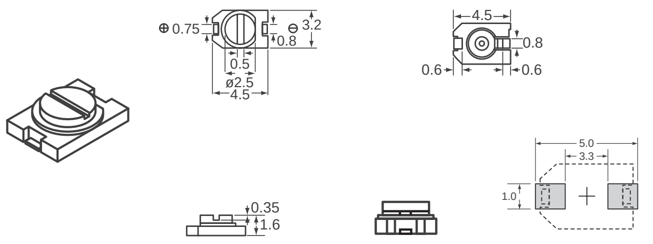

Fig. 2

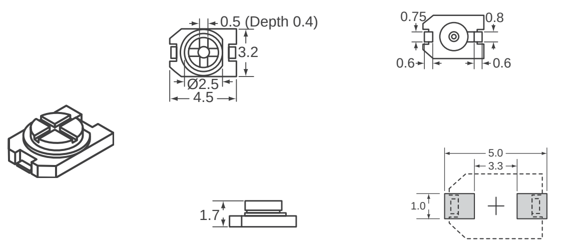

Fig.	C min. (pF)	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Stator/ Case Color	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	Murata Part No.
1	1.4	3.0 + 50/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1998-1-ND	.64	.56	.44	490-1998-2-ND	238.95	TZC3Z030A110R00
	2.0	6.0 ± 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-2000-1-ND	.64	.56	.44	490-2000-2-ND	238.95	TZC3Z060A110R00
	3.0	10.0 ± 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1996-1-ND	.64	.56	.44	490-1996-2-ND	238.95	TZC3R100A110R00
	5.0	20.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1992-1-ND	.64	.56	.44	490-1992-2-ND	238.95	TZC3P200A110R00
	6.5	30.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1994-1-ND	.64	.56	.44	490-1994-2-ND	238.95	TZC3P300A110R00
2	1.4	3.0 ± 50/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1999-1-ND	.64	.56	.44	490-1999-2-ND	238.95	TZC3Z030A310R00
	2.0	6.0 ± 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-2001-1-ND	.64	.56	.44	490-2001-2-ND	238.95	TZC3Z060A310R00
	3.0	10.0 ± 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1997-1-ND	.64	.56	.44	490-1997-2-ND	238.95	TZC3R100A310R00
	5.0	20.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1993-1-ND	.64	.56	.44	490-1993-2-ND	238.95	TZC3P200A310R00
	6.5	30.0 ± 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1995-1-ND	.64	.56	.44	490-1995-2-ND	238.95	TZC3P300A310R00
—	Tuning Tool for Manual Adjustment							490-2607-ND		6.27/1		—	—	KMDR010

SMD Ceramic Trimmer Capacitors – TZB4 Series

Color coded case facilitates identification of capacitance range. Designed for automatic placement in surface mount applications. Can be temporarily attached to PCB with adhesives.

Specifications: • Insulation Resistance: 10,000MΩ minimum • Torque: 1.5-10.0mNm • Operating Temperature Range: -25°C ~ 85°C

Dim. in mm

Fig. 1

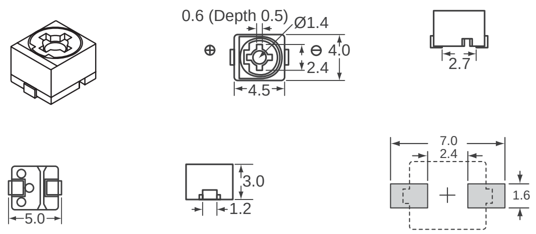

Fig. 2

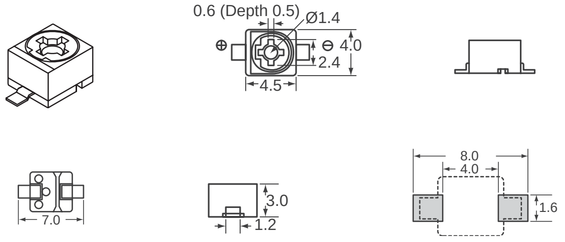

Fig.	C min. (pF)	C max. (pF)	TC	Q	Rated Voltage	With-standing Voltage	Stator/ Case Color	Digi-Key Part No.	Price Each 5	25	100	Digi-Key Part No.	Tape & Reel Pricing 500	Murata Part No.
1	1.4	3.0 + 50/-0%	NPO ± 200ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1984-1-ND	.77	.67	.53	490-1984-2-ND	158.70	TZB4Z030AA10R00
	2.0	6.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1986-1-ND	.77	.67	.53	490-1986-2-ND	158.70	TZB4Z060AA10R00
	3.0	10.0 + 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1988-1-ND	.77	.67	.53	490-1988-2-ND	158.70	TZB4Z100AA10R00
	4.0	25.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1990-1-ND	1.36	1.19	.94	490-1990-2-ND	281.37	TZB4Z250AA10R00
	4.5	20.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1980-1-ND	.77	.67	.53	490-1980-2-ND	158.70	TZB4R200AA10R00
	6.5	30.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1976-1-ND	.77	.67	.53	490-1976-2-ND	158.70	TZB4P300AA10R00
	7.0	50.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1982-1-ND	1.36	1.19	.94	490-1982-2-ND	281.37	TZB4R500AA10R00
	8.5	40.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Yellow	490-1978-1-ND	.77	.67	.53	490-1978-2-ND	158.70	TZB4P400AA10R00
2	1.4	3.0 + 50/-0%	NPO ± 200ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Brown	490-1985-1-ND	.77	.67	.53	490-1985-2-ND	158.70	TZB4Z030BA10R00
	2.0	6.0 + 50/-0%	NPO ± 200ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Blue	490-1987-1-ND	.77	.67	.53	490-1987-2-ND	158.70	TZB4Z060BA10R00
	3.0	10.0 + 50/-0%	NPO ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	White	490-1989-1-ND	.77	.67	.53	490-1989-2-ND	158.70	TZB4Z100BA10R00
	4.0	25.0 + 100/-0%	NPO ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1991-1-ND	1.36	1.19	.94	490-1991-2-ND	281.37	TZB4Z250BA10R00
	4.5	20.0 + 50/-0%	N750 ± 300ppm/°C	500 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Red	490-1981-1-ND	.77	.67	.53	490-1981-2-ND	158.70	TZB4R200BA10R00
	6.5	30.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Green	490-1977-1-ND	.77	.67	.53	490-1977-2-ND	158.70	TZB4P300BA10R00
	7.0	50.0 + 100/-0%	N750 ± 300ppm/°C	300 min. @ 1MHz, Cmax.	50Vdc	110Vdc	Black+Marking	490-1983-1-ND	1.36	1.19	.94	490-1983-2-ND	281.37	TZB4R500BA10R00
	8.5	40.0 + 50/-0%	N1200 ± 500ppm/°C	300 min. @ 1MHz, Cmax.	100Vdc	220Vdc	Yellow	490-1979-1-ND	.77	.67	.53	490-1979-2-ND	158.70	TZB4P400BA10R00
—	Tuning Tool for Manual Adjustment							490-2607-ND		6.27/1		—	—	KMDR010

GSX Series SMD Trimmer Capacitors

SPECIFICATIONS:
• **Operating Temperature Range:** -25°C ~ 85°C • **Voltage Rating:** 100VDC • **Dielectric Withstanding Voltage:** 200VDC • **Insulation Resistance:** 10^4 MΩ minimum • **Torque:** 20 to 300 g-cm (0.28 to 4.2 oz-in)

Capacitance (pF) Min.	Max.	TCC (ppm / °C)	Q (min.) 10MHz	Color Code	Digi-Key Part No.	Cut Tape Pricing 10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Sprague-Goodman Part No.
0.5	4.5	N100	1000	Orange	SG2018CT-ND	12.90	111.00	SG2018TR-ND	550.00/M	GSX364
0.6	9.0	N100	1000	Black	SG2017CT-ND	14.70	126.00	SG2017TR-ND	625.41/M	GSX358
0.8	15.0	N100	1000	Blue	SG2019CT-ND	16.30	140.00	SG2019TR-ND	700.00/M	GSX365
1.0	20.0	N100	1000	Green	SG2020CT-ND	23.44	200.94	SG2020TR-ND	1004.71/M	GSX366

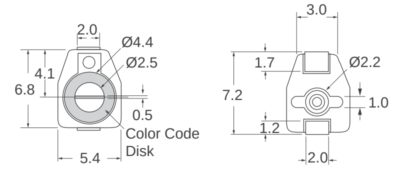

GKG Series
Ceramic Trimmer Capacitors

SPECIFICATIONS: • **Operating Temperature Range:** -25°C ~ 85°C • **Voltage Rating:** 100VDC • **Dielectric Withstanding Voltage:** 220VDC • **Insulation Resistance:** 10^4MΩ minimum

Fig.	Capacitance (pF) Min.	Max.	TCC (ppm / °C)	Q (min.)	Color Code	Digi-Key Part No.	Pricing 1	10	100	Sprague-Goodman Part No.
Top Adjust Ceramic Trimmer Capacitors										
1	2.5	6.0	0±200	500	Blue	SG1021-ND	.56	4.80	44.00	GKG6R021
Top Adjust Ceramic Trimmer Capacitors										
2	1.7	3.0	0±200	300	Red Dot*	SG1027-ND	.56	4.80	44.00	GKG3R024
	2.5	6.0	0±200	500	Blue	SG1028-ND	.56	4.80	44.00	GKG6R024
Bottom Adjust Ceramic Trimmer Capacitors										
3A	1.0	3.0	NPO±250	300	Black	SG3R016-ND	.28	2.45	21.00	GKG3R016
	2.0	5.0	NPO±250	300	Blue	SG5R016-ND	.28	2.45	21.00	GKG5R016
	7.0	40.0	N2200±800	200	Yellow	SG40016-ND	.28	2.45	21.00	GKG40016
	12.0	60.0	N2200±800	200	Brown	SG60016-ND	.44	3.85	33.00	GKG60016
	15.0	70.0	N2200±800	200	Brown	SG70016-ND	.44	3.85	33.00	GKG70016
Top Adjust Ceramic Trimmer Capacitors										
3B	2.0	5.0	NPO±250	300	Blue	SG5R015-ND	.24	2.10	18.00	GKG5R015

* Marking on bottom of capacitor

Tuning Tool

SG9005-ND 4 x 4.5mm Type (Fig. 1 and 2) **$13.00**

Fig. 1

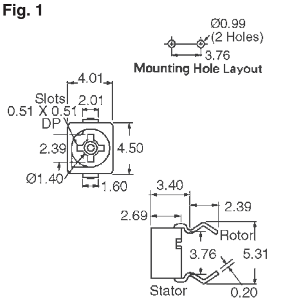

Fig. 2

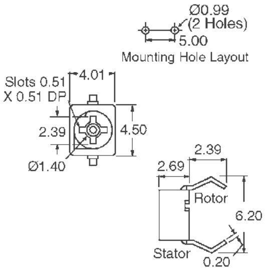

Fig. 3

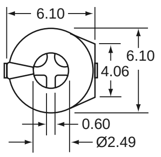

Fig. 3A

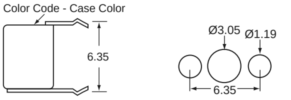

Fig. 3B

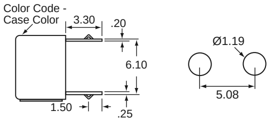

SURFTRIM® Surface Mount Variable Capacitors

• Sealed Construction • 4 x 4.5 x 2.7mm

FEATURES:
- Process seal provides protection against contaminants (flux, solvents, etc.) during production.
- Designed for vapor phase reflow soldering.

SPECIFICATIONS:
- **Operating Temperature Range:** -25°C ~ 85°C
- **Dielectric Withstanding Voltage:** 220VDC
- **Insulation Resistance:** 10^4MΩ minimum
- **Voltage Rating:** 100VDC
- **Torque:** 15 to 100 g-cm (0.2 to 1.39 in.-oz.)

Fig. 1

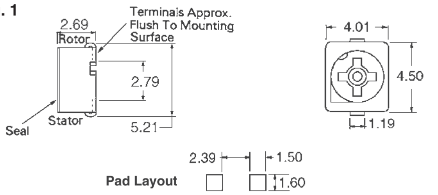

Fig. 2

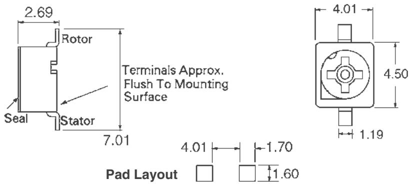

Fig.	Capacitance (pF) Min.	Max.	TCC (ppm / °C)	Q (min.) 1MHz	Color Code	Digi-Key Part No.	Cut Tape Pricing 5	25	100	Digi-Key Part No.	Tape & Reel Pricing 700	Sprague-Goodman Part No.
1	1.4	3.0	0±200	300	Red Dot*	SG2000CT-ND	5.40	23.63	74.25	SG2000TR-ND	313.60	GKG3R066-07
	2.0	6.0	0±200	500	Blue	SG2001CT-ND	5.40	23.63	74.25	SG2001TR-ND	313.60	GKG6R066-07
	3.0	10.0	0±300	500	White	SG2002CT-ND	5.40	23.63	74.25	SG2002TR-ND	313.60	GKG10066-07
	4.5	20.0	N750±300	500	Red	SG2003CT-ND	5.40	23.63	74.25	SG2003TR-ND	313.60	GKG20066-07
	6.5	30.0	N900±450	300	Green	SG2004CT-ND	5.40	23.63	74.25	SG2004TR-ND	313.60	GKG30066-07
2	1.4	3.0	0±200	300	Red Dot*	SG2007CT-ND	6.40	28.00	88.00	SG2007TR-ND	371.70	GKG3R067-07
	2.0	6.0	0±200	500	Blue	SG2008CT-ND	6.40	28.00	88.00	SG2008TR-ND	371.70	GKG6R067-07
	3.0	10.0	0±300	500	White	SG2009CT-ND	6.40	28.00	88.00	SG2009TR-ND	371.70	GKG10067-07
	4.5	20.0	N750±300	500	Red	SG2010CT-ND	6.40	28.00	88.00	SG2010TR-ND	371.70	GKG20067-07
	6.5	30.0	N900±450	300	Green	SG2011CT-ND	6.40	28.00	88.00	SG2011TR-ND	371.70	GKG30067-07

* Marking on bottom of capacitor

SPRAGUE GOODMAN

Ceramic Dielectric Trimmer Capacitors
SURFTRIM® Surface Mount GKRP, GKYB and GKY Series

Tuning Tool

GTT-21-ND	(SG2026 - SG2029)	**$40.00**
GTT-11-ND	(SG2026 - SG2029)	**$3.81**
GTT-9-ND	(SG2021 - SG2025)	**$3.81**

GKRP SERIES: • Sealed for washability • Low mounting profile • Carrier and reel packaging standard • NPO temperature coefficient (up to 10pF max.) • Self resonant frequency above 1GHz **Specifications:** • Operating Temperature Range: -40°C ~ 85°C • Dielectric Withstanding Voltage: 75VDC • Insulation Resistance: 10^4MΩ minimum • Voltage Rating: 25VDC • Torque: 0.14 to 2.1 oz-in

GKYB SERIES: • Suitable for reflow soldering • Low mounting profile (only 1.6mm) • Superior setting drift performance. **Specifications:** • Operating Temperature Range: -25°C ~ 85°C • Voltage Rating: 100VDC • Dielectric Withstanding Voltage: 220VDC • Insulation Resistance: 10^4 MΩ minimum • Torque: 25 to 100 g-cm (0.35 to 1.39 oz-in)

GKY SERIES: • Designed for reflow soldering • Carrier and reel packaging standard **Specifications:** • Operating Temperature Range: -25°C ~ 85°C • Dielectric Withstanding Voltage: 220VDC • Insulation Resistance: 10^4MΩ minimum • Voltage Rating: 100VDC • Torque: 0.14 to 2.08 oz-in

GKRP Series

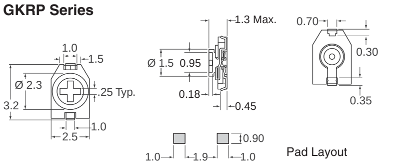

Pad Layout

GKYB Series *NEW!*

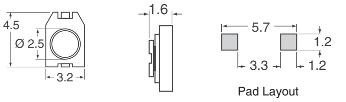

Pad Layout

GKY Series

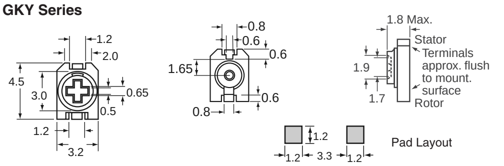

Pad Layout

Capacitance (pF) Min.	Max.	TCC (ppm/ °C)	Q (min.) (1 MHz)	Color Code	Digi-Key Part No.	Cut Tape Pricing 5	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Sprague-Goodman Part No.
					GKRP Series							
3.0	5	0 ±500	150	—	SG2026CT-ND	8.20	35.88	112.75	SG2026TR-ND	2,000	615.00/M	GKRP5R066
3.0	10	0 ±500	150	—	SG2027CT-ND	8.20	35.88	112.75	SG2027TR-ND	2,000	615.00/M	GKRP10066
5.0	20	N750 ±500	150	—	SG2028CT-ND	8.20	35.88	112.75	SG2028TR-ND	2,000	615.00/M	GKRP20066
7.0	30	N750 ±500	150	—	SG2029CT-ND	8.20	35.88	112.75	SG2029TR-ND	2,000	615.00/M	GKRP30066
					NEW! GKYB Series NEW!							
1.7	3.0	NP0 ±300	300	Brown	SG2035CT-ND	2.98	13.04	40.98	SG2035TR-ND	1,000	247.34	GKYB3R066
2.5	6.0	NP0 ±300	500	Blue	SG2036CT-ND	2.98	13.04	40.98	SG2036TR-ND	1,000	247.34	GKYB6R066
3.5	10.0	N750 ±300	500	White	SG2037CT-ND	2.98	13.04	40.98	SG2037TR-ND	1,000	247.34	GKYB10066
5.5	20.0	N1200 ±500	300	Red	SG2038CT-ND	2.98	13.04	40.98	SG2038TR-ND	1,000	247.34	GKYB20066
7.5	30.0	N1200 ±500	300	Green	SG2039CT-ND	2.98	13.04	40.98	SG2039TR-ND	1,000	247.34	GKYB30066
					GKY Series							
1.7	3.0	0 ±300	500	Brown	SG2024CT-ND	5.20	22.75	71.50	SG2024TR-ND	1,000	431.60	GKY3R066
2.5	6.0	0 ±300	500	Blue	SG2025CT-ND	5.20	22.75	71.50	SG2025TR-ND	1,000	431.60	GKY6R066
3.0	10.0	N400 ±400	500	White	SG2021CT-ND	5.20	22.75	71.50	SG2021TR-ND	1,000	431.60	GKY10066
5.0	20.0	N900 ±400	300	Red	SG2022CT-ND	5.20	22.75	71.50	SG2022TR-ND	1,000	431.60	GKY20066
6.0	30.0	N1200 ±500	300	Green	SG2023CT-ND	5.20	22.75	71.50	SG2023TR-ND	1,000	431.60	GKY30066

Top and Bottom/Side Adjust FILMTRIM® Plastic Dielectric Capacitors
GYA, GYB Series — 8mm; GYC, GYD, GZC, GZD Series — 10mm

Tuning Tool **SG9004-ND** **$15.44**

Features: • Compact size • Most stable TCC for single turn trimmers • Low cost for commercial/industrial applications • Linear capacitance change vs. rotation **Specifications:** • Dielectric Construction: GYA, GYB, GYC, GYD Series: Polypropylene; GZC and GZD Series: Polycarbonate • Voltage Rating: 100WVDC • Dielectric Withstanding Voltage: 200VDC • Operating Temperature: GYA and GYB Series: -40°C ~ 70°C; GYC, GYD, GZC, GZD Series: -40°C ~ 85°C • Contact Resistance: <0.010 Ohm • Insulation Resistance: >10,000MΩ • Torque: GYA and GYB Series: 0.2-3.0 in.-oz.; GYC, GYD, GZC, GZD Series: 0.2-5.5 in.-oz. • Q (min) @ 1 MHz: GYA, GYB, GYC, GYD Series: 1000; GZC and GZD Series: 200

Fig.	Capacitance (pF) Min.	Max.	TCC (ppm/°C)	Dimensions A	B	C	Color Code	Digi-Key Part No.	Pricing 1	10	100	Sprague-Goodman Part No.
					8mm							
1A	1.6	5.0	0±300	8.51	7.87	10.2	Gray	SG3000-ND	1.02	8.70	79.75	GYA5R000
	2.0	10.0	0±300	8.51	7.87	10.2	Yellow	SG3001-ND	1.02	8.70	79.75	GYA10000
	2.0	15.0	0±400	8.51	7.87	10.2	Blue	SG3002-ND	1.09	9.30	85.25	GYA15000
	2.2	22.0	0±400	8.51	7.87	10.2	Green	SG3003-ND	1.09	9.30	85.25	GYA22000
	2.3	27.0	0±350	8.51	7.87	10.2	Red	SG3004-ND	1.12	9.60	88.00	GYA27000
	3.0	36.0	0±300	8.51	7.87	10.2	Violet	SG3005-ND	1.65	14.10	129.25	GYA36000
2A	1.6	5.0	0±300	8.51	7.87	10.2	Gray	SG3020-ND	1.75	15.00	137.50	GYB5R000
	2.0	10.0	0±300	8.51	7.87	10.2	Yellow	SG3021-ND	1.75	15.00	137.50	GYB10000
	2.0	15.0	0±400	8.51	7.87	10.2	Blue	SG3022-ND	1.89	16.20	148.50	GYB15000
	2.2	22.0	0±400	8.51	7.87	10.2	Green	SG3023-ND	1.89	16.20	148.50	GYB22000
	2.3	27.0	0±350	8.51	7.87	10.2	Red	SG3024-ND	1.96	16.80	154.00	GYB27000
					10mm							
1B	2.0	15.0	0±400	11	10.16	10.2	Blue	SG3006-ND	1.40	12.00	110.00	GYC15000
	3.0	20.0	0±400	11	10.16	10.2	Green	SG3007-ND	1.44	12.30	112.75	GYC20000
	3.5	40.0	0±350	11	10.16	10.2	Clear	SG3008-ND	1.37	11.70	107.25	GYC40000
	4.5	65.0	0±350	11	10.16	10.2	Yellow	SG3009-ND	1.40	12.00	110.00	GYC65000
2B	2.0	15.0	0±400	11	10.16	10.2	Blue	SG3025-ND	1.89	16.20	148.50	GYD15000
	3.0	20.0	0±400	11	10.16	10.2	Green	SG3026-ND	1.93	16.50	151.25	GYD20000
	3.0	40.0	0±350	11	10.16	10.2	Clear	SG3027-ND	2.03	17.40	159.50	GYD40000
	4.5	65.0	0±350	11	10.16	10.2	Yellow	SG3028-ND	2.28	19.50	178.75	GYD65000
1B	8.0	80.0	0±200	11	10.16	11.4	Red	SG3010-ND	1.86	15.90	145.75	GZC80000
	9.0	100.0	0±400	11	10.16	11.4	Violet	SG3011-ND	2.98	25.50	233.75	GZC10100
	9.0	120.0	0±350	11	10.16	11.4	Orange	SG3012-ND	4.38	37.50	343.75	GZC12100
	10.0	150.0	0±350	11	10.16	12.0	Orange	SG3013-ND	5.11	43.80	401.50	GZC15100
	10.0	180.0	0±350	11	10.16	12.0	Orange	SG3014-ND	6.02	51.60	473.00	GZC18100
2B	9.0	100.0	0±400	11	10.16	11.4	Violet	SG3016-ND	3.75	32.10	294.25	GZD10100
	9.0	120.0	0±350	11	10.16	11.4	Orange	SG3017-ND	5.04	43.20	396.00	GZD12100
	10.0	150.0	0±350	11	10.16	12.0	Orange	SG3018-ND	5.71	48.90	448.25	GZD15100
	10.0	180.0	0±350	11	10.16	12.0	Orange	SG3019-ND	6.41	54.90	503.25	GZD18100

Fig. 1

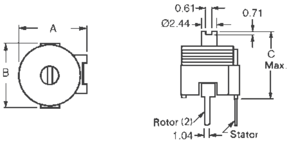

Fig. 1A - 8 mm

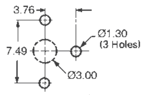

Mounting Hole Layout 3 Lead

Fig. 1B - 10 mm

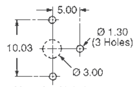

Mounting Hole Layout

Fig. 2

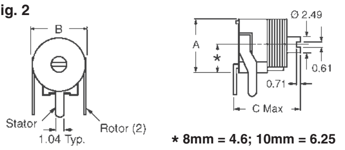

*** 8mm = 4.6; 10mm = 6.25**

Fig. 2A - 8 mm

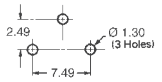

Mounting Hole Layout

Fig. 2B - 10 mm

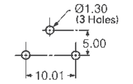

Mounting Hole Layout

BC COMPONENTS

SMD Trimmer Capacitors
Film Dielectric Capacitors

Description: SMD trimmer capacitors use a PTE Teflon film dielectric for excellent long-term stability and low temperature coefficient of capacitance. These units consist of brass rotors and stators separated by film dielectric and enclosed in a plastic case.

Specifications: • Insulation Resistance between Stator and Rotor: 10,000MΩ minimum • Voltage Rating: 100VDC • Minimum Q @ 10MHz: 1000 • Temperature Coefficient: -100 ± 100 PPM/°C • Soldering Maximum: 260°C for 5 seconds • Operating Temperature Range: -40°C ~ 85°C • Effective Angle of Rotation: 360° • Operating Torque: 20 - 300 g.cm • Ratio of Maximum to Minimum Torque: Within 3:1

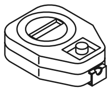

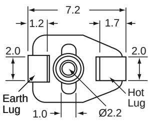

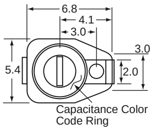

Dim. in mm

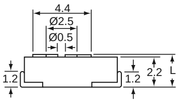

Capacitance (pF) Min.	Max.	Dim. L (mm)	Color Code	Digi-Key Part No.	Price Each 1	10	100	500	1,000	BC Components Part No.
0.3 ±0.2	5, -0.5/+3	2.2	Orange	2807S505-ND	1.68	1.46	1.32	1.12	.98	2807S0R505NHA4BAA
0.4 ±0.2	10, -1/+5	2.2	Black	2807S610-ND	1.68	1.46	1.32	1.12	.98	2807S0R610NHB4BAA
0.5 ±0.3	15, -0/+7	2.4	Blue	2807S815-ND	1.68	1.46	1.32	1.12	.98	2807S0R815NHC4BAA
0.7 ±0.3	20, -0/+10	2.55	Green	2807S020-ND	1.68	1.46	1.32	1.12	.98	2807S1R020NHD4BAA

High Voltage Resistor — HVR

A multi layer metal film is deposited on a high-grade ceramic body. After a helical groove has been cut in the resistive layer, tinned electrolytic copper wires are welded to the end caps. The resistors are coated with a blue lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD 202, method 215" and "IEC 60068-2-45". **Features:**
• Metal film technology • High pulse loading capability
Specificatons: • Limiting Voltage: 1600VDC (HVR25), 3500VDC (HVR37), 10,000VDC (HVR68)
• Temperature Coefficient: ± 250ppm/°C

HVR25
5% High Voltage Metal Film Resistors — .25 Watt

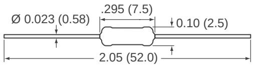

100K	180K	330K	560K	1.0M
110K	200K	360K	620K	
120K	220K	390K	680K	
130K	240K	430K	750K	
150K	270K	470K	820K	
160K	300K	510K	910K	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Mfg. Part No.
.25W, High Voltage Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	100K~1.0MΩ	PPCQJ(Value)TR-ND	—	—	—	71.00/M	61.00/M	5043HVxxxxxJ12AFX
.25W, High Voltage Metal Film Fixed Resistor; Cut Tape	100K~1.0MΩ	PPCQJ(Value)CT-ND	2.19	33.35	86.25	—	—	5043HVxxxxxJ12AFX

HVR37
5% High Voltage Metal Film Resistors — .50 Watt

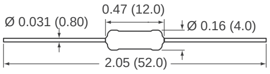

100K	180K	330K	560K	1.0M	1.8M	3.3M	5.6M	10M	18M	33M
110K	200K	360K	620K	1.1M	2.0M	3.6M	6.2M	11M	20M	
120K	220K	390K	680K	1.2M	2.2M	3.9M	6.8M	12M	22M	
130K	240K	430K	750K	1.3M	2.4M	4.3M	7.5M	13M	24M	
150K	270K	470K	820K	1.5M	2.7M	4.7M	8.2M	15M	27M	
160K	300K	510K	910K	1.6M	3.0M	5.1M	9.1M	16M	30M	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Mfg. Part No.
.50W, High Voltage Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	100K~33MΩ	PPCHJ(Value)TR-ND	—	—	—	101.00/M	86.00/M	5053HVxxxxxJ12AFX
.50W, High Voltage Metal Film Fixed Resistor; Cut Tape	100K~33MΩ	PPCHJ(Value)CT-ND	2.95	44.95	116.25	—	—	5053HVxxxxxJ12AFX

HVR68 5% High Voltage Metal Film Resistors — 1 Watt

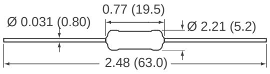

100K	160K	270K	430K	680K	1.1M	1.8M	3.0M	4.7M	7.5M
110K	180K	300K	470K	750K	1.2M	2.0M	3.3M	5.1M	8.2M
120K	200K	330K	510K	820K	1 3M	2.2M	3.6M	5.6M	9.1M
130K	220K	360K	560K	910K	1.5M	2.4M	3.9M	6.2M	10M
150K	240K	390K	620K	1.0M	1.6M	2.7M	4.3M	6.8M	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	500	2,500	5,000	Mfg. Part No.
1W, High Voltage Metal Film Fixed Resistor; Ammo Box (500 pcs.)	100K~1.0MΩ	PPC1J(Value)TB-ND	—	—	221.50	378.00/M	342.00/M	5073HVxxxxxJ08AFX
1W, High Voltage Metal Film Fixed Resistor; Cut Tape	100K~1.0MΩ	PPC1J(Value)CT-ND	11.59	176.90	—	—	—	5073HVxxxxxJ08AFX
1W, High Voltage Metal Film Fixed Resistor; Ammo Box (500 pcs.)	1.1M~10MΩ	PPC1J(Value)TB-ND	—	—	225.00	384.00/M	348.00/M	5073HVxxxxxJ08AFX
1W, High Voltage Metal Film Fixed Resistor; Cut Tape	1.1M~10MΩ	PPC1J(Value)CT-ND	11.78	179.80	—	—	—	5073HVxxxxxJ08AFX

HVR25 1% High Voltage Metal Film Resistors — .25 Watt

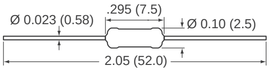

100K	118K	137K	160K	182K	215K	243K	280K	324K	365K	422K	475K	549K	620K	715K	825K	953K
102K	120K	140K	162K	187K	220K	249K	287K	330K	374K	430K	487K	560K	634K	732K	845K	976K
105K	121K	143K	165K	191K	221K	255K	294K	332K	383K	432K	499K	562K	649K	750K	866K	1.0M
107K	124K	147K	169K	196K	226K	261K	300K	340K	390K	442K	510K	576K	665K	768K	887K	
110K	127K	150K	174K	200K	232K	267K	301K	348K	392K	453K	511K	590K	680K	787K	909K	
113K	130K	154K	178K	205K	237K	270K	309K	357K	402K	464K	523K	604K	681K	806K	910K	
115K	133K	158K	180K	210K	240K	274K	316K	360K	412K	470K	536K	619K	698K	820K	931K	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Mfg. Part No.
.25W, High Voltage Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	100K~1.0MΩ	PPCQF(Value)TR-ND	—	—	—	111.00/M	94.00/M	5043HVxxxxxF12AFX
.25W, High Voltage Metal Film Fixed Resistor; Cut Tape	100K~1.0MΩ	PPCQF(Value)CT-ND	3.18	48.58	125.63	—	—	5043HVxxxxxF12AFX

HVR37 1% High Voltage Metal Film Resistors — .50 Watt

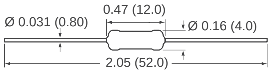

100K	133K	178K	232K	300K	383K	487K	620K	820K	1.07M	1.43M	1.87M	2.43M	3.16M	4.02M	5.11M	6.65M	8.66M
102K	137K	180K	237K	301K	390K	499K	634K	825K	1.10M	1.47M	1.91M	2.49M	3.24M	4.12M	5.23M	6.80M	8.87M
105K	140K	182K	240K	309K	392K	510K	649K	845K	1.13M	1.50M	1.96M	2.55M	3.30M	4.22M	5.36M	6.81M	9.09M
107K	143K	187K	243K	316K	402K	511K	665K	866K	1.15M	1.54M	2.00M	2.61M	3.32M	4.30M	5.49M	6.98M	9.10M
110K	147K	191K	249K	324K	412K	523K	680K	887K	1.18M	1.58M	2.05M	2.67M	3.40M	4.32M	5.60M	7.15M	9.31M
113K	150K	196K	255K	330K	422K	536K	681K	909K	1.20M	1.60M	2.10M	2.70M	3.48M	4.42M	5.62M	7.32M	9.53M
115K	154K	200K	261K	332K	430K	549K	698K	910K	1.21M	1.62M	2.15M	2.74M	3.57M	4.53M	5.76M	7.50M	9.76M
118K	158K	205K	267K	340K	432K	560K	715K	931K	1.24M	1.65M	2.20M	2.80M	3.60M	4.64M	5.90M	7.68M	10M
120K	160K	210K	270K	348K	442K	562K	732K	953K	1.27M	1.69M	2.21M	2.87M	3.65M	4.70M	6.04M	7.87M	
121K	162K	215K	274K	357K	453K	576K	750K	976K	1.30M	1.74M	2.26M	2.94M	3.74M	4.75M	6.19M	8.06M	
124K	165K	220K	280K	360K	464K	590K	768K	1.00M	1.33M	1.78M	2.32M	3.00M	3.83M	4.87M	6.20M	8.20M	
127K	169K	221K	287K	365K	470K	604K	787K	1.02M	1.37M	1.80M	2.37M	3.01M	3.90M	4.99M	6.34M	8.25M	
130K	174K	226K	294K	374K	475K	619K	806K	1.05M	1.40M	1.82M	2.40M	3.09M	3.92M	5.10M	6.49M	8.45M	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Mfg. Part No.
.50W, High Voltage Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	100K~1.20MΩ	PPCHF(Value)TR-ND	—	—	—	139.00/M	118.00/M	5053HVxxxxxF12AFX
.50W, High Voltage Metal Film Fixed Resistor; Cut Tape	100K~1.20MΩ	PPCHF(Value)CT-ND	3.90	59.45	153.75	—	—	5053HVxxxxxF12AFX
.50W, High Voltage Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	1.21M~10MΩ	PPCHF(Value)TR-ND	—	—	—	143.00/M	122.00/M	5053HVxxxxxF12AFX
.50W, High Voltage Metal Film Fixed Resistor; Cut Tape	1.21M~10MΩ	PPCHF(Value)CT-ND	3.99	60.90	157.50	—	—	5053HVxxxxxF12AFX

SFR25 Type 1% Metal Film Fixed Resistors — .40 Watt 5043ED Series

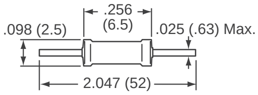

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with non-flammable light green, lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

CHARACTERISTICS:
• **Resistance Tolerance:** ±1% • **Temperature Coefficient:** R≤1MΩ = ±100 ppm/°C, R>1MΩ = ±250ppm/°C • **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 0.40W • **Thermal Resistance, R_{TH}:** 200K/W • **Maximum Continuous Operating Voltage:** 250V (DC or RMS) • **Noise R ≤ 1 MΩ:** Maximum 0.1 μV/V • **Operating Temperature Range:** -55°C ~ 155°C

Phoenix Passive Components Standard Resistor Values

10.0	46.4	118	280	619	1.24K	2.43K	4.64K	8.06K	16.9K	34.8K	68.1K	200K	432K	1.58M
10.2	47.5	121	294	649	1.27K	2.49K	4.75K	8.25K	17.4K	35.7K	71.5K	210K	442K	1.60M
11.0	49.9	124	301	665	1.30K	2.55K	4.87K	9.09K	18.2K	36.0K	75.0K	221K	464K	1.62M
11.3	51.1	127	324	681	1.33K	2.67K	4.99K	9.53K	18.7K	37.4K	78.7K	226K	475K	1.65M
11.5	53.6	133	332	698	1.40K	2.74K	5.10K	9.76K	19.6K	38.3K	82.5K	232K	499K	1.78M
13.0	56.2	140	340	715	1.43K	2.87K	5.11K	10.0K	20.0K	39.2K	86.6K	243K	511K	1.80M
15.0	57.6	150	348	750	1.47K	2.94K	5.23K	10.2K	20.5K	40.2K	88.7K	249K	562K	1.82M
18.2	60.4	158	374	768	1.50K	3.01K	5.36K	10.7K	21.5K	41.2K	90.9K	255K	604K	1.96M
19.1	61.9	169	392	787	1.54K	3.09K	5.49K	11.0K	22.1K	42.2K	97.6K	270K	619K	2.00M
20.0	62.0	178	402	806	1.58K	3.16K	5.60K	11.3K	24.3K	43.2K	100K	274K	634K	
21.5	63.4	182	422	825	1.62K	3.24K	5.62K	11.5K	24.9K	45.3K	110K	280K	681K	
22.1	68.1	196	430	845	1.69K	3.32K	5.90K	11.8K	25.5K	46.4K	120K	294K	715K	
23.2	69.8	200	432	866	1.74K	3.48K	6.04K	12.1K	26.1K	47.5K	121K	301K	750K	
24.3	75.0	205	442	909	1.78K	3.57K	6.19K	12.4K	26.7K	49.9K	124K	309K	1.00M	
24.9	80.6	210	453	931	1.82K	3.65K	6.34K	12.7K	27.4K	51.1K	127K	324K	1.05M	
26.1	82.0	220	475	953	1.87K	3.74K	6.49K	13.0K	28.7K	53.6K	130K	332K	1.10M	
27.4	82.5	221	487	1.00K	1.91K	3.83K	6.65K	13.3K	29.4K	54.9K	140K	340K	1.15M	
33.2	88.7	232	499	1.05K	2.00K	3.92K	6.81K	13.7K	30.1K	56.0K	150K	348K	1.21M	
34.8	90.9	237	511	1.07K	2.10K	4.02K	6.98K	14.0K	30.9K	56.2K	165K	365K	1.30M	
36.5	95.3	243	536	1.10K	2.15K	4.22K	7.15K	14.3K	31.6K	60.4K	169K	374K	1.43M	
39.2	100	249	562	1.15K	2.21K	4.32K	7.32K	15.0K	32.4K	61.9K	182K	392K	1.47M	
40.2	105	267	590	1.18K	2.32K	4.42K	7.50K	15.8K	33.2K	63.4K	191K	402K	1.50M	
43.2	110	274	604	1.21K	2.37K	4.53K	7.68K	16.2K	34.0K	64.9K	196K	422K	1.54M	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Phoenix Passive Components Part No.
.40 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0 - 2.00MΩ	PPC(Value)YTR-ND	—	—	—	19.88/M	16.96/M	5043EDxxxxxF12AF5
.40 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0 - 2.00MΩ	PPC(Value)YCT-ND	.88	13.49	34.88	—	—	5043EDxxxxxF12AF5

SFR16S Type 1% Metal Film Fixed Resistors — .50 Watt 5033ED Series

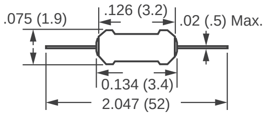

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with non-flammable light blue lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

CHARACTERISTICS:
• **Resistance Tolerance:** ±1% • **Temperature Coefficient:** R≤ 200KΩ = ±100ppm/°C, R> 200KΩ = ±250ppm/°C • **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 0.50W • **Thermal Resistance, R_{TH}:** 170K/W • **Maximum Continuous Operating Voltage:** 200V (DC or RMS) • **Operating Temperature Range:** -55°C ~ 155°C

Phoenix Passive Components Standard Resistor Values

10.0	47.5	100	301	590	1.05K	2.49K	4.99K	9.76K	17.8K	35.7K	73.2K	182K	499K
10.7	48.7	121	309	604	1.21K	2.55K	5.11K	10.0K	18.2K	36.5K	75.0K	191K	549K
20.0	49.9	124	324	665	1.24K	2.74K	5.23K	10.2K	18.7K	39.2K	82.5K	200K	562K
22.1	51.1	147	332	681	1.30K	2.80K	5.36K	11.0K	20.0K	40.2K	90.9K	220K	634K
22.6	54.9	150	365	698	1.50K	3.01K	5.49K	12.1K	20.5K	41.2K	100K	221K	681K
26.1	57.6	158	383	715	1.58K	3.09K	5.62K	12.4K	22.1K	43.2K	105K	249K	806K
27.4	60.4	162	390	750	1.65K	3.24K	5.90K	12.7K	23.7K	47.5K	110K	294K	820K
28.0	63.4	191	392	787	1.69K	3.32K	6.49K	13.0K	24.3K	48.7K	115K	301K	931K
30.1	64.9	200	402	806	1.82K	3.65K	6.81K	13.3K	24.9K	49.9K	121K	324K	1.00M
33.2	68.1	221	432	825	1.96K	3.83K	6.98K	14.0K	25.5K	51.1K	124K	332K	1.02M
35.7	75.0	226	475	866	2.00K	3.92K	7.50K	14.7K	26.7K	54.9K	150K	348K	1.07M
37.4	76.8	249	499	909	2.21K	4.02K	8.20K	15.0K	28.0K	56.2K	154K	402K	1.10M
38.3	82.5	267	511	953	2.26K	4.32K	8.25K	15.8K	30.1K	60.4K	158K	412K	1.21M
39.2	90.9	274	549	1.00K	2.37K	4.53K	9.09K	16.2K	32.4K	68.1K	165K	432K	1.82M
41.2	93.1	280	562	1.02K	2.43K	4.75K	9.53K	16.9K	33.2K	69.8K	169K	475K	2.00M

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Phoenix Passive Components Part No.
.50 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0 - 2.00MΩ	PPC(Value)XTR-ND	—	—	—	23.25/M	19.84/M	5033EDxxxxxF12AF5
.50 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0 - 2.00MΩ	PPC(Value)XCT-ND	.97	14.79	38.25	—	—	5033EDxxxxxF12AF5

MRS25 Type 1% Metal Film Fixed Resistors — .60 Watt 5053MC Series

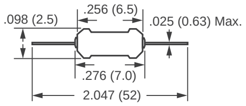

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a green, non-flammable lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

CHARACTERISTICS:
• **Resistance Tolerance:** ±1% • **Temperature Coefficient:** ±50 ppm/°C • **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 0.60W • **Thermal Resistance, R_{TH}:** 150K/W • **Maximum Continuous Operating Voltage:** 350V (DC or RMS) • **Operating Temperature Range:** -55°C ~ 155°C

Phoenix Passive Components Standard Resistor Values

10.0	44.2	110	243	475	1.10K	2.67K	5.49K	12.1K	28.0K	78.7K	294K	750K
10.7	46.4	121	249	499	1.21K	2.74K	5.90K	12.4K	30.1K	82.5K	301K	787K
12.4	47.5	130	255	511	1.24K	2.94K	6.04K	13.0K	34.0K	90.9K	316K	806K
13.3	49.9	137	267	549	1.30K	3.01K	6.19K	14.0K	39.2K	100K	324K	825K
14.0	51.1	140	274	562	1.40K	3.16K	6.49K	14.3K	40.2K	121K	332K	931K
15.0	54.9	143	280	576	1.50K	3.32K	6.81K	15.0K	41.2K	150K	348K	976K
18.2	56.2	150	301	604	1.58K	3.40K	6.98K	16.9K	43.2K	162K	374K	1.10M
20.0	60.4	154	316	619	1.62K	3.74K	7.15K	17.4K	44.2K	165K	392K	1.20M
22.1	61.9	165	324	665	1.65K	3.92K	7.50K	18.2K	47.5K	182K	442K	1.50M
23.7	71.5	169	332	681	1.69K	4.02K	7.68K	18.7K	48.7K	200K	475K	1.80M
24.9	75.0	178	365	750	1.82K	4.22K	8.25K	19.1K	49.9K	221K	499K	2.00M
27.4	78.7	182	392	768	2.00K	4.32K	8.66K	20.0K	51.1K	226K	511K	2.20M
30.9	82.5	191	402	825	2.21K	4.64K	9.09K	21.0K	56.2K	243K	576K	
33.2	90.9	200	422	909	2.26K	4.75K	9.76K	22.1K	66.5K	249K	619K	
35.7	93.1	210	432	931	2.32K	4.99K	10.0K	24.9K	68.1K	255K	649K	
38.3	100	215	442	953	2.43K	5.11K	10.2K	26.7K	75.0K	267K	665K	
42.2	102	221	464	1.00K	2.49K	5.36K	11.3K	27.4K	76.8K	280K	681K	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Phoenix Passive Components Part No.
.60 Watt, 1% Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	10.0-2.20MΩ	PPC(Value)ZTR-ND	—	—	—	31.88/M	27.20/M	5053MCxxxxxF12AF5
.60 Watt, 1% Metal Film Fixed Resistor; Cut Tape	10.0-2.20MΩ	PPC(Value)ZCT-ND	1.19	18.13	46.88	—	—	5053MCxxxxxF12AF5

PR01 Type 5% Power Metal Film Fixed Resistors — 1 Watt

5073NW Series

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

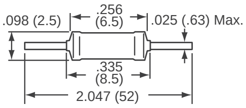

CHARACTERISTICS:
• **Resistance Tolerance:** ±5% • **Temperature Coefficient:** ±250 ppm/°C • **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 1.0W • **Thermal Resistance, R_{TH}:** 135K/W • **Maximum Continuous Operating Voltage:** 350V (DC or RMS) • **Operating Temperature Range:** -55°C ~ 155°C

Phoenix Passive Components Standard Resistor Values

1.0	3.3	10	33	100	330	1.0K	3.3K	10K	43K	180K	750K
1.1	3.6	11	36	110	360	1.1K	3.6K	12K	47K	200K	820K
1.2	3.9	12	39	120	390	1.2K	3.9K	15K	51K	220K	1.0M
1.3	4.3	13	43	130	430	1.3K	4.3K	16K	56K	240K	
1.5	4.7	15	47	150	470	1.5K	4.7K	18K	62K	270K	
1.6	5.1	16	51	160	510	1.6K	5.1K	20K	68K	300K	
1.8	5.6	18	56	180	560	1.8K	5.6K	22K	82K	330K	
2.0	6.2	20	62	200	620	2.0K	6.2K	24K	91K	390K	
2.2	6.8	22	68	220	680	2.2K	6.8K	27K	100K	470K	
2.4	7.5	24	75	240	750	2.4K	7.5K	30K	120K	510K	
2.7	8.2	27	82	270	820	2.7K	8.2K	33K	130K	560K	
3.0	9.1	30	91	300	910	3.0K	9.1K	39K	150K	680K	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Mfg. Part No.
1W, Power Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	1.0 - 1.0MΩ	PPC(Value)W-1TR-ND	—	—	—	53.63/M	45.76/M	5073NWxxxxxJ12AFX
1W, Power Metal Film Fixed Resistor; Cut Tape	1.0 - 1.0MΩ	PPC(Value)W-1CT-ND	1.74	26.54	68.63	—	—	5073NWxxxxxJ12AFX

PR02 Type 5% Power Metal Film Fixed Resistors — 2 Watt 5083NW Series

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

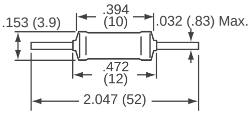

CHARACTERISTICS:
• **Resistance Tolerance:** ±5% • **Temperature Coefficient:** ±250 ppm/°C • **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 2.0W • **Thermal Resistance, R_{TH}:** 75K/W • **Maximum Continuous Operating Voltage:** 500V (DC or RMS) • **Operating Temperature Range:** -55°C ~ 155°C

Phoenix Passive Components Standard Resistor Values

1.0	3.0	8.2	24	68	200	560	1.8K	5.1K	15K	43K	150K	510K
1.1	3.3	9.1	27	75	220	620	2.0K	5.6K	16K	47K	160K	560K
1.2	3.6	10	30	82	240	680	2.2K	6.2K	18K	51K	180K	620K
1.3	3.9	11	33	91	270	750	2.4K	6.8K	20K	56K	200K	680K
1.5	4.3	12	36	100	300	820	2.7K	7.5K	22K	62K	220K	750K
1.6	4.7	13	39	110	330	1.0K	3.0K	8.2K	24K	68K	240K	1.0M
1.8	5.1	15	43	120	360	1.1K	3.3K	9.1K	27K	75K	270K	
2.0	5.6	16	47	130	390	1.2K	3.6K	10K	30K	82K	300K	
2.2	6.2	18	51	150	430	1.3K	3.9K	11K	33K	91K	330K	
2.4	6.8	20	56	160	470	1.5K	4.3K	12K	36K	100K	390K	
2.7	7.5	22	62	180	510	1.6K	4.7K	13K	39K	120K	470K	

Description	Value Range	Digi-Key Part No.	Pricing 5	200	500	1,000	5,000	Mfg. Part No.
2W, Power Metal Film Fixed Resistor; Tape & Reel (5,000/Reel)	1.0 - 1.0MΩ	PPC(Value)W-2TR-ND	—	—	—	104.25/M	88.96/M	5083NWxxxxxJ12AFX
2W, Power Metal Film Fixed Resistor; Cut Tape	1.0 - 1.0MΩ	PPC(Value)W-2CT-ND	3.02	46.11	119.25	—	—	5083NWxxxxxJ12AFX

PR03 Type 5% Power Metal Film Fixed Resistors — 3 Watt 5093NW Series

A homogeneous film of metal alloy is deposited on a high grade ceramic body. After a helical groove has been cut in the resistive layer, tinned connecting wires of electrolytic copper are welded to the end-caps. The resistors are coated with a red, non-flammable lacquer, which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45".

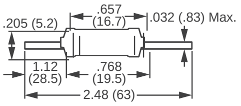

CHARACTERISTICS:
• **Resistance Tolerance:** ±5% • **Temperature Coefficient:** ±250 ppm/°C • **Absolute Maximum Dissipation at T_{AMB} = 70°C:** 3.0W • **Thermal Resistance, R_{TH}:** 60K/W • **Maximum Continuous Operating Voltage:** 750V (DC or RMS) • **Operating Temperature Range:** -55°C ~ 155°C

Phoenix Passive Components Standard Resistor Values

10	51	200	820	4.7K	16K	47K	160K	750K
12	56	220	1.0K	5.1K	18K	51K	200K	1.0M
15	62	240	1.1K	6.8K	20K	56K	220K	
18	68	300	1.2K	7.5K	22K	62K	240K	
20	75	330	1.5K	8.2K	24K	75K	330K	
24	100	390	2.0K	10K	27K	82K	360K	
27	110	470	2.4K	11K	30K	100K	390K	
33	120	510	2.7K	12K	33K	120K	430K	
43	150	560	3.0K	13K	36K	130K	470K	
47	180	680	3.9K	15K	39K	150K	510K	

Description	Value Range	Digi-Key Part No.	Pricing 5	100	500	1,000	5,000	Mfg. Part No.
3W, Power Metal Film Fixed Resistors; Tape & Box (500/AMMO Pk.)	10 - 1.0MΩ	PPC(Value)W-3JTB-ND	—	—	81.60	151.47	135.15/M	5093NWxxxxxJA8AFX
3W, Power Metal Film Fixed Resistors; Cut Tape	10 - 1.0MΩ	PPC(Value)W-3JCT-ND	2.09	23.65	—	—	—	5093NWxxxxxJA8AFX

NFR25/NFR25H Type 5% Metal Film Fusible Resistors — 0.33 and 0.5 Watt

5063F and 5065F Series

The resistors are coated with a grey, flame retardant lacquer which provides electrical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45". **Features:** • Fusible resistors • Defined interruption behavior (fusing time) • Nonflammable lacquer • High stability, reliability and uniformity characteristics • Suitable for protecting circuit boards and designs

CHARACTERISTICS:
• **Resistance Tolerance:** ±5% • **Maximum Dissipation at T_{AMB} = 70°C:** *NFR25:* 0.33W; *NFR25H:* 0.5W • **Maximum Permissible Voltage:** *NFR25:* 250V; *NFR25H:* 350V • **Operating Temperature Range:** -55°C ~ 155°C

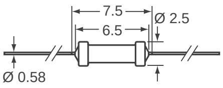

Phoenix Passive Components Standard Resistor Values

.22	2.2	22	330	2.2K
.33	3.3	33	470	3.3K
.47	4.7	47	680	4.7K
.68	6.8	100	68	6.8K
1.0	10	150	1.0K	10K
1.5	15	220	1.5K	15K

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1,000	5,000	10,000	Mfg. Part No.
NFR25, 0.33W, Power Metal Film Fusible Resistors; Tape & Reel (5,000/Reel)	.22 - 15KΩ	PPC(Value)ATR-ND	—	—	—	119.63/M	102.08/M	5063FxxxxxxJ12AFX
NFR25, 0.33W, Power Metal Film Fusible Resistors; Cut Tape	.22 - 15KΩ	PPC(Value)ACT-ND	3.41	52.06	134.63	—	—	5063FxxxxxxJ12AFX
NFR25H, 0.5W, Power Metal Film Fusible Resistors; Tape & Reel (5,000/Reel)	.22 - 15KΩ	PPC(Value)BTR-ND	—	—	—	170.63/M	145.60/M	5065FxxxxxxJ12AFX
NFR25H, 0.5W, Power Metal Film Fusible Resistors; Cut Tape	.22 - 15KΩ	PPC(Value)BCT-ND	4.70	71.78	185.63	—	—	5065FxxxxxxJ12AFX

NFR01/02/03 Type 5% Metal Film High Power Fusible Resistors — 1, 2 and 3 Watt

5073FM, 5083FM and 5093FM Series

The resistors are coated with a red, non-flammable lacquer, which provides electical, mechanical and climatic protection. The encapsulation is resistant to all cleaning solvents in accordance with "MIL-STD-202E, Method 215" and "IEC 60068-2-45". **Features:** • Fusible resistors • Defined interruption behavior (fusing time) • Nonflammable lacquer • High stability, reliability and uniformity characteristics • Suitable for protecting circuit boards and designs

CHARACTERISTICS: • **Resistance Tolerance:** ±5% • **Maximum Dissipation at 70°C:** *NFR01:* 1.0W; *NFR02:* 2.0W; *NFR03:* 3.0W • **Maximum Permissible Voltage:** *NFR01:* 350V; *NFR02:* 500V; *NFR03:* 500V • **Temperature Coefficient:** ≤±200ppm/°C

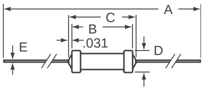

	Dimensions (mm)				
Type	**A**	**B**	**C**	**D**	**E**
NFR01	52 ±1.5	6.5	8.5	2.5	0.58 ±0.05 Cu.
NFR02	52 ±1.5	10.0	12.0	4.0	0.8 ±0.03 Cu.
NFR03	63 ±1.5	16.7	19.5	5.3	0.8 ±0.03 Cu.

Phoenix Passive Components Standard Resistor Values

.47	2.2	10	47	220	1.0K
.68	3.3	15	68	330	
1.0	4.7	22	100	470	
1.5	6.8	33	150	680	

Description	Value Range	Digi-Key Part No.	Pricing 5	100	200	500	1,000	5,000	10,000	Mfg. Part No.
NFR01, 1W, Metal Film High Power Fusible Resistors; Tape & Reel (5,000/Reel)	.47 - 1.0KΩ	PPC(Value)CTR-ND	—	—	—	—	—	159.75/M	136.32/M	5073FMxxxxxJ12AFX
NFR01, 1W, Metal Film High Power Fusible Resistors; Cut Tape	.47 - 1.0KΩ	PPC(Value)CCT-ND	4.43	—	67.57	—	174.75	—	—	5073FMxxxxxJ12AFX
NFR02, 2W, Metal Film High Power Fusible Resistors; Tape & Reel (5,000/Reel)	.47 - 1.0KΩ	PPC(Value)DTR-ND	—	—	—	—	—	258.75/M	220.80/M	5083FMxxxxxJ12AFX
NFR02, 2W, Metal Film High Power Fusible Resistors; Cut Tape	.47 - 1.0KΩ	PPC(Value)DCT-ND	6.94	—	105.85	—	273.75	—	—	5083FMxxxxxJ12AFX
NFR03, 3W, Metal Film High Power Fusible Resistors; Tape & Box (500/AMMO Pk.)	.47 - 1.0KΩ	PPC(Value)ETB-ND	—	—	—	444.80	825.66	736.70/M	667.20/M	5093FMxxxxxJ08AFX
NFR03, 3W, Metal Film High Power Fusible Resistors; Cut Tape	.47 - 1.0KΩ	PPC(Value)ECT-ND	10.72	121.26	—	—	—	—	—	5093FMxxxxxJ08AFX

Phoenix
Passive Components

Z-Lead SMT Type Resistors — Metal Film and Wirewound

Wirewound: The Resistor element is a resistive wire which is wound in a single layer on a ceramic rod. The resistor is coated with green silicon cement which is non-flammable.

Metal Film: A homogenous film of metal alloy is deposited on a high-grade ceramic core. The resistor is coated with red silicon cement which is non-flammable.

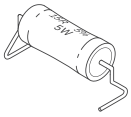

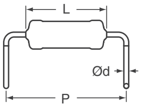

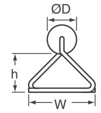

Type	Dimensions in Inches (mm) L Max.	ØD Max.	Ød	P ±0.039 (±0.1)	h Max.	W Max.
PR03 - Metal Film	0.650 (16.5)	0.205 (5.2)	0.031 (0.8 FeCu)	0.827 (21.0)	0.197 (5.0)	0.295 (7.5)
AC03 - Wirewound	0.492 (12.5)	0.22 (5.5)	0.031 (0.8 FeCu)	0.649 (16.5)	0.197 (5.0)	0.295 (7.5)
AC05 - Wirewound	0.669 (17.0)	0.295 (7.5)	0.031 (0.8 FeCu)	0.827 (21.0)	0.197 (5.0)	0.295 (7.5)

Features: • Surface mounted version • Low cost alternative for SMD molded resistor • High power dissipation in small volume • High pulse load handling capabilities • High temperature silicone coating

Rated Voltage: $\sqrt{P \times R}$: Maximum rated voltage is the limited voltage

Operating Temperature: • PRO3 Series: -55°C ~ 155°C **• AC03 and AC05 Series:** -40° ~ 200°C

Phoenix Passive Components Standard Resistor Values

PRO3 5% Metal Film — 3 Watt

.68	1.8	4.7	12	33	82	220	560	1.5K	3.9K	10K	27K	68K	180K	470K
.75	2.0	5.1	13	36	91	240	620	1.6K	4.3K	11K	30K	75K	200K	510K
.82	2.2	5.6	15	39	100	270	680	1.8K	4.7K	12K	33K	82K	220K	560K
.91	2.4	6.2	16	43	110	300	750	2.0K	5.1K	13K	36K	91K	240K	620K
1.0	2.7	6.8	18	47	120	330	820	2.2K	5.6K	15K	39K	100K	270K	680K
1.1	3.0	7.5	20	51	130	360	910	2.4K	6.2K	16K	43K	110K	300K	750K
1.2	3.3	8.2	22	56	150	390	1.0K	2.7K	6.8K	18K	47K	120K	330K	820K
1.3	3.6	9.1	24	62	160	430	1.1K	3.0K	7.5K	20K	51K	130K	360K	910K
1.5	3.9	10	27	68	180	470	1.2K	3.3K	8.2K	22K	56K	150K	390K	1.0M
1.6	4.3	11	30	75	200	510	1.3K	3.6K	9.1K	24K	62K	160K	430K	

AC03 5% Wirewound — 3 Watt

.10	.20	.39	.75	1.5	3.0	5.6	11	22	43	82	160	330	620	1.2K	2.4K	4.7K
.11	.22	.43	.82	1.6	3.3	6.2	12	24	47	91	180	360	680	1.3K	2.7K	5.1K
.12	.24	.47	.91	1.8	3.6	6.8	13	27	51	100	200	390	750	1.5K	3.0K	
.13	.27	.51	1.0	2.0	3.9	7.5	15	30	56	110	220	430	820	1.6K	3.3K	
.15	.30	.56	1.1	2.2	4.3	8.2	16	33	62	120	240	470	910	1.8K	3.6K	
.16	.33	.62	1.2	2.4	4.7	9.1	18	36	68	130	270	510	1.0K	2.0K	3.9K	
.18	.36	.68	1.3	2.7	5.1	10	20	39	75	150	300	560	1.1K	2.2K	4.3K	

AC05 5% Wirewound — 5 Watt

.10	.20	.39	.75	1.5	3.0	5.6	11	22	43	82	160	330	620	1.2K	2.4K	4.7K
.11	.22	.43	.82	1.6	3.3	6.2	12	24	47	91	180	360	680	1.3K	2.7K	5.1K
.12	.24	.47	.91	1.8	3.6	6.8	13	27	51	100	200	390	750	1.5K	3.0K	5.6K
.13	.27	.51	1.0	2.0	3.9	7.5	15	30	56	110	220	430	820	1.6K	3.3K	6.2K
.15	.30	.56	1.1	2.2	4.3	8.2	16	33	62	120	240	470	910	1.8K	3.6K	6.8K
.16	.33	.62	1.2	2.4	4.7	9.1	18	36	68	130	270	510	1.0K	2.0K	3.9K	7.5K
.18	.36	.68	1.3	2.7	5.1	10	20	39	75	150	300	560	1.1K	2.2K	4.3K	8.2K

Description	Value Range (Ω)	Maximum Dissipation T_{AMB} = 25°C	Temperature Coefficient (ppm/°C)	Digi-Key Part No.	Pricing 1	10	50	100	1000	Mfg. Part No.
PR03 - 5% Metal Film	.68 - 1.0M	3 Watt	±250	PPC(Value)ZW-3-ND	1.50	12.87	49.50	85.14	594.00	2306 199 xxxxx
AC03 - 5% Wirewound	.10 - 5.1K	3 Watt	R<10Ω: 0 ~ 600, R≥10Ω: -80 ~ 140*	PPCZ3W(Value)-ND	1.67	14.30	55.00	94.60	660.00	2306 326 xxxxx
AC05 - 5% Wirewound	.10 - 8.2K	5 Watt	R<10Ω: 0 ~ 600, R≥10Ω: -80 ~ 140*	PPCZ5W(Value)-ND	3.42	29.25	112.50	193.50	1350.00	2306 321 xxxxx

*Temperature coefficient 30, 50 and 90 ppm/°C available on request

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Phoenix
Passive Components

SR37 Type 10% Metal Film Surge Resistors — .50 Watt

A multilayer metal film is deposited on a high grade ceramic body. Tinned electrolytic copper wires are welded to the end caps. The resistors are coated with a blue non-flammable lacquer, which provides electrical, mechanical and climactic protection. The encapsulation is resistant to all cleaning solvents in accordance with MIL-STD, method 215 and IEC 60068-2-45.

Features: • High Pulse-loading capability • Good replacement for carbon-composition resistors

Applications: • Amplifiers • TV Sets, Monitors • Power Supplies • Motor Speed Controls

Characteristics: • Temperature Coefficient: ±250ppm/°C • Maximum Dissipation @ T_{AMB} = 70°: .50 Watts • Dielectric Withstanding Voltage: 500V • Resistance Tolerance: ±10%

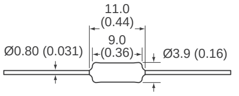

Phoenix Passive Components Standard Resistor Values

560	1.20K	2.70K	5.60K
680	1.50K	3.30K	6.80K
820	1.80K	3.90K	8.20K
1.00K	2.20K	4.70K	10.0K

Description	Value Range (Ω)	Digi-Key Part No.	Pricing 5	200	1,000	Digi-Key Part No.	Tape and Reel Pricing 5,000	Phoenix Passive Components Part No.
.50 Watt, 10% Metal Film Surge Resistor	560 - 10.0K	PPC(Value)LCT-ND	1.28	28.98	100.09	PPC(Value)LTR-ND	78.71/M	2306 245 33xxx

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THIN FILM TECHNOLOGY
SSM SUSUMU CO., LTD

NEW! Thin Film Fixed SMD Attenuators

PAT0510S and PAT1220 Series

Specifications:
- Attenuation: 0 ~ 10dB • VSWR: 1.3 or less • Frequency Range: DC ~ 10GHz
- Operating Temperature: -55°C ~ 125°C • Impedance: 50Ω • Rated Ambient Temperature: 70°

Materials:
- Resistor: Nichrome Thin Film • Protection Film: Epoxy Resin • Substrate: Alumina
- Marking: White Ink • Terminals: Sn Plate (Sn is free from lead)

RoHS COMPLIANT

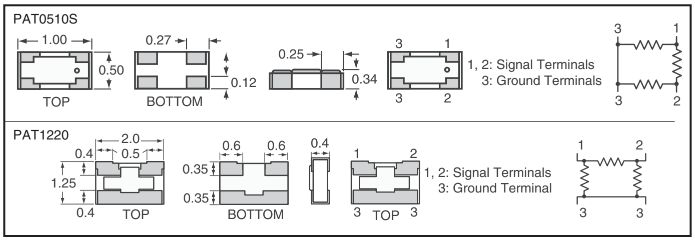

Type	Attenuation Value (dB)	Attenuation Tolerance	Rated Input Power	Impedance Tolerance	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Digi-Key Part No.	Tape & Reel Size	Pricing	Susumu Part No.
PAT0510S	0	±0.3dB	32mW	±20% @ DC	PAT05S0CT-ND	.47	2.52	7.23	PAT05S0TR-ND	10,000	45.00/M	PAT0510S-C-0DB-T10
	1				PAT05S1CT-ND	.47	2.52	7.23	PAT05S1TR-ND	10,000	45.00/M	PAT0510S-C-1DB-T10
	2				PAT05S2CT-ND	.47	2.52	7.23	PAT05S2TR-ND	10,000	45.00/M	PAT0510S-C-2DB-T10
	3				PAT05S3CT-ND	.47	2.52	7.23	PAT05S3TR-ND	10,000	45.00/M	PAT0510S-C-3DB-T10
	4	±0.5dB	32mW	±20% @ DC	PAT05S4CT-ND	.47	2.52	7.23	PAT05S4TR-ND	10,000	45.00/M	PAT0510S-C-4DB-T10
	5				PAT05S5CT-ND	.47	2.52	7.23	PAT05S5TR-ND	10,000	45.00/M	PAT0510S-C-5DB-T10
	6				PAT05S6CT-ND	.47	2.52	7.23	PAT05S6TR-ND	10,000	45.00/M	PAT0510S-C-6DB-T10
	7				PAT05S7CT-ND	.47	2.52	7.23	PAT05S7TR-ND	10,000	45.00/M	PAT0510S-C-7DB-T10
	8	±0.7dB	32mW	±20% @ DC	PAT05S8CT-ND	.47	2.52	7.23	PAT05S8TR-ND	10,000	45.00/M	PAT0510S-C-8DB-T10
	9				PAT05S9CT-ND	.47	2.52	7.23	PAT05S9TR-ND	10,000	45.00/M	PAT0510S-C-9DB-T10
	10				PAT05S10CT-ND	.47	2.52	7.23	PAT05S10TR-ND	10,000	45.00/M	PAT0510S-C-10DB-T10
PAT1220	0	±0.3dB	100mW	±7% @ DC	PAT120CT-ND	1.29	6.96	19.98	PAT120TR-ND	5,000	144.00/M	PAT1220-C-0DB-T5
	1				PAT121CT-ND	1.29	6.96	19.98	PAT121TR-ND	5,000	144.00/M	PAT1220-C-1DB-T5
	2				PAT122CT-ND	1.29	6.96	19.98	PAT122TR-ND	5,000	144.00/M	PAT1220-C-2DB-T5
	3				PAT123CT-ND	1.29	6.96	19.98	PAT123TR-ND	5,000	144.00/M	PAT1220-C-3DB-T5
	4				PAT124CT-ND	1.29	6.96	19.98	PAT124TR-ND	5,000	144.00/M	PAT1220-C-4DB-T5
	5				PAT125CT-ND	1.29	6.96	19.98	PAT125TR-ND	5,000	144.00/M	PAT1220-C-5DB-T5
	6				PAT126CT-ND	1.29	6.96	19.98	PAT126TR-ND	5,000	144.00/M	PAT1220-C-6DB-T5
	7				PAT127CT-ND	1.29	6.96	19.98	PAT127TR-ND	5,000	144.00/M	PAT1220-C-7DB-T5
	8				PAT128CT-ND	1.29	6.96	19.98	PAT128TR-ND	5,000	144.00/M	PAT1220-C-8DB-T5
	9				PAT129CT-ND	1.29	6.96	19.98	PAT129TR-ND	5,000	144.00/M	PAT1220-C-9DB-T5
	10				PAT1210CT-ND	1.29	6.96	19.98	PAT1210TR-ND	5,000	144.00/M	PAT1220-C-10DB-T5

THIN FILM TECHNOLOGY
SSM SUSUMU CO., LTD

NEW! SMD Power Dividers

Operating Temperature: -40°C ~ 125°C

Excellent high frequency characteristics from DC ~ 20 GHz.

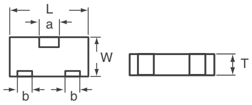

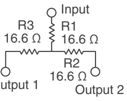

Type	Dimensions (mm) L	W	a	b	T
PS1608 (G)	1.6	0.8	0.4	0.3	0.4
PS2012 (G)	2.0	1.25	0.4	0.3	0.4
PS3216 (G)	3.2	1.6	0.3	0.35	0.4

Type	Frequency Range	Distribution Deviation	Input or Output VSWR 1.3 or Less	1.5 or Less	Attenuation Tolerance 6±0.5dB	6±1.0dB	Input Power Typ.	Max.	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	T&R Pricing 5,000	Susumu Part No.
PS1608	DC ~ 20GHz	Within 0.3dB	DC ~ < 10GHz	10 ~ 20GHz	DC ~ < 10GHz	10 ~ 20GHz	100mW	200mW	408-1093-1-ND	2.28	19.50	130.00	408-1093-2-ND	780.00/M	PS1608GT2-R50-T5
PS2012	DC ~ 17.5GHz	Within 0.3dB	DC ~ < 10GHz	10 ~ 17.5GHz	DC ~ < 10GHz	10 ~ 17.5GHz	125mW	250mW	408-1094-1-ND	3.85	33.00	220.00	408-1094-2-ND	1320.00/M	PS2012GT2-R50-T5
PS3216	DC ~ 15GHz	Within 0.3dB	DC ~ < 10GHz	10 ~ 15GHz	DC ~ < 10GHz	10 ~ 15GHz	250mW	500mW	408-1095-1-ND	5.95	51.00	340.00	408-1095-2-ND	2040.00/M	PS3216GT2-R50-T5

0402 / 0603 / 0805 SMD 0.1%, 0.05% Thin Film Chip Resistors Ultra Precision / Ultra Reliable RG Series - 1/16, 1/10 Watt

Using the conventional properties of Thin Film Resistors, SSM has successfully achieved the environmental, resistance stability and sustained durability issues that are encountered while operating at higher temperatures. We call this "RG" Series (Resistor Great). Higher reliability parts are indispensable in the Automotive, Measurement and Medical Industries as quality requirements increase. Susumu provides a solution with the RG Series thin film chip resistors. The RG series provides excellent TCR, Low Current Noise, and Linearity specifications needed in high frequency applications. Tight tolerance allows for circuit simplification and the elimination of trim pots which leads to cost savings.

Specifications:

Performance: Inorganic protective coating assures high reliability, durability and protection against heat and moisture. **Operating Temperature:** -55°C ~ 155°C (100% Power at 85°C) **Thermal Derating:** The RG series is able to dissipate 100% of rated power at 85°C. For applications operating above 85°C, the user must derate the resistors in accordance with the derating curve listed. **Applications:** Suitable for automotive, measurement devices and any application where accuracy and reliability are required.

Items	Test Conditions	Performance of High Reliablity Maximum	Typical
Short Time Overload	2.5 times of Rated Load X 5 seconds	+/-0.05%	+/-0.01%
Load Life	85°C Rated Load 90 minutes on/ 30 minutes off Cycle 1000h	+/-0.1%	+/-0.01%
Temperature Humidity Bias	85°C, 85%RH 1/10 power loaded 90 min. on/ 30 minutes off Cycle 1000h	+/-0.1%	+/-0.05%
A/A Thermal Shock	-55°C(30 minutes)/ Room Temp.(2 minutes)/ +125°C(30 minutes)/ Room Temp.(2 minutes)/ Room Temp.(2 min.) no Load 1000 Cycles	+/-0.1%	+/-0.05%
High Temperature	155°C no Load 1000h	+/-0.1%	+/-0.01%

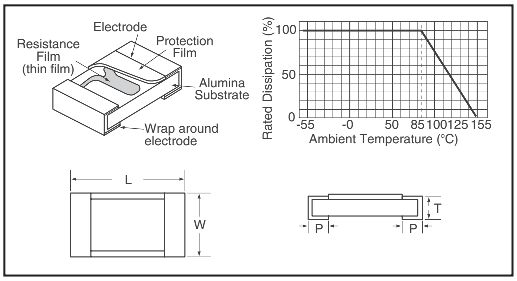

0.1%, 0402 Series, 1/16 Watt — Resistor Values

47	110	200	360	604	1.0K	1.78K	3.16K	5.6K	8.87K	15K	27K	49.9K	76.8K
49.9	120	210	374	620	1.05K	1.8K	3.3K	5.9K	9.1K	16K	28K	51K	80.6K
51	124	220	390	649	1.1K	2.0K	3.6K	6.04K	9.76K	16.5K	30K	54.9K	82K
56	130	240	402	680	1.2K	2.1K	3.74K	6.2K	10K	17.8K	31.6K	56K	88.7K
62	137	249	430	681	1.24K	2.2K	3.9K	6.49K	10.5K	18K	33K	59K	91K
68	140	261	470	750	1.3K	2.4K	4.02K	6.8K	11K	20K	36K	60.4K	97.6K
75	150	270	499	768	1.37K	2.49K	4.3K	6.81K	12K	21K	37.4K	62K	100K
82	160	280	510	806	1.4K	2.61K	4.7K	7.5K	12.4K	22K	39K	64.9K	
91	165	300	549	820	1.5K	2.7K	4.99K	7.68K	13K	24K	40.2K	68K	
100	178	316	560	887	1.6K	2.8K	5.1K	8.06K	13.7K	24.9K	43K	68.1K	
105	180	330	590	910	1.65K	3.0K	5.49K	8.2K	14K	26.1K	47K	75K	

0.05%, 0603 Series, 1/16 Watt — Resistor Values

47	91	180	360	680	1.3K	2.7K	5.1K	10.0K	20.0K	39.0K	75.0K	150K
51	100	200	390	750	1.5K	3.0K	5.6K	11.0K	22.0K	43.0K	82.0K	160K
56	110	220	430	820	1.6K	3.3K	6.2K	12.0K	24.0K	47.0K	91.0K	180K
62	120	240	470	910	1.8K	3.6K	6.8K	13.0K	27.0K	51.0K	100K	200K
68	130	270	510	1.0K	2.0K	3.9K	7.5K	15.0K	30.0K	56.0K	110K	220K
75	150	300	560	1.1K	2.2K	4.3K	8.2K	16.0K	33.0K	62.0K	120K	240K
82	160	330	620	1.2K	2.4K	4.7K	9.1K	18.0K	36.0K	68.0K	130K	270K

0.05%, 0805 Series, 1/10 Watt — Resistor Values

47	91	180	360	680	1.3K	2.7K	5.1K	10.0K	20.0K	39.0K	75.0K	150K	300K
51	100	200	390	750	1.5K	3.0K	5.6K	11.0K	22.0K	43.0K	82.0K	160K	330K
56	110	220	430	820	1.6K	3.3K	6.2K	12.0K	24.0K	47.0K	91.0K	180K	360K
62	120	240	470	910	1.8K	3.6K	6.8K	13.0K	27.0K	51.0K	100K	200K	390K
68	130	270	510	1.0K	2.0K	3.9K	7.5K	15.0K	30.0K	56.0K	110K	220K	430K
75	150	300	560	1.1K	2.2K	4.3K	8.2K	16.0K	33.0K	62.0K	120K	240K	470K
82	160	330	620	1.2K	2.4K	4.7K	9.1K	18.0K	36.0K	68.0K	130K	270K	

Description	Value Range (Ω)	TCR ppm/°C	Max. Oper. Volt.	Dimensions (mm) L	W	P	T	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Size	Pricing	Susumu Part No.
0.1%, 0402, 1/16W	47 ~ 100K	±25 (P)	25V	1.0	0.5	0.25	0.35	RG10P(Value)BCT-ND ***NEW!***	7.43	19.98	45.90	RG10P(Value)BTR-ND ***NEW!***	5,000	85.00/M	RG1005P-xxx-B-T5
0.05%, 0603, 1/16W	47 ~ 270K	±10 (N)	75V	1.6	0.8	0.3	0.4	RG16N(Value)WCT-ND	28.05	75.48	173.40	RG16N(Value)WTR-ND	1,000	340.00	RG1608N-xxx-W-T1
0.05%, 0805, 1/10W	47 ~ 470K	±10 (N)	100V	2.0	1.25	0.4	0.4	RG20N(Value)WCT-ND	30.80	82.88	190.40	RG20N(Value)WTR-ND	1,000	374.00	RG2012N-xxx-W-T1

0.05% SMD Resistors — Digi-Key® Assortment Kits

Digi-Key® 0603, 0.05%, 1/16W, RG Series, SMD Resistor Kits

RG1608NW-1-KIT-ND	10 each of values 47Ω ~ 750Ω	**$175.95**
RG1608NW-2-KIT-ND	10 each of values 820Ω ~ 13.0KΩ	**$175.95**
RG1608NW-3-KIT-ND	10 each of values 15.0KΩ ~ 270KΩ	**$175.95**

Digi-Key® 0805, 0.05%, 1/10W, RG Series, SMD Resistor Kits

RG2012NW-1-KIT-ND	10 each of values 47.0Ω ~ 910Ω	**$199.95**
RG2012NW-2-KIT-ND	10 each of values 1.0KΩ ~ 20.0KΩ	**$199.95**
RG2012NW-3-KIT-ND	10 each of values 22.0KΩ ~ 470KΩ	**$199.95**

0402 / 0603 / 0805 SMD 1% High Power Metal Film Chip Resistors RP Series — 1/3, 1/5, 1/6 Watt

Susumu's RP series current sensing resistors provide excellent heat dissipation which allows higher power handling in smaller package sizes. Their patented structure will not create "hot spots" and evenly distribute heat across the total surface area of the resistor.
Operating Temperature: -40°C ~ 125°C
Maximum Operating Voltage: $\sqrt{PxR}$

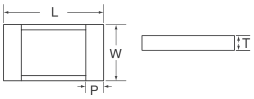

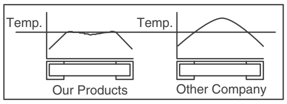

Resistor Values

.10	.22	.47	1.0	2.2	4.7	10	22	47	100
.12	.27	.56	1.2	2.7	5.6	12	27	56	
.15	.33	.68	1.5	3.3	6.8	15	33	68	
.18	.39	.82	1.8	3.9	8.2	18	39	82	

Description	Value Range (Ω)	TCR ppm/°C	Resistance Tolerance	Dimensions (mm) L	W	P	T	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape & Reel Size	Pricing	Susumu Part No.
1%, 0402, 1/6W	.10 ~ 47	0 ~ 200	±1%	1.00	0.50	0.20	0.35	RP10S(Value)FCT-ND	9.63	25.90	59.50	RP10S(Value)FTR-ND	10,000	105.60/M	RP1005S-xxx-F
1%, 0603, 1/5W	.10 ~ 68	0 ~ 200	±1%	1.60	0.80	0.30	0.40	RP16S(Value)FCT-ND	6.88	18.50	42.50	RP16S(Value)FTR-ND	5,000	78.20/M	RP1608S-xxx-F
1%, 0805, 1/3W	.10 ~ 10	0 ~ 200	±1%	2.00	1.25	0.40	0.40	RP20T(Value)FCT-ND	5.36	14.43	33.15	RP20T(Value)FTR-ND	5,000	59.50/M	RP2012T-xxx-F
1%, 0805, 1/3W	12 ~ 100	0 ~ 200	±1%	2.00	1.25	0.40	0.40	RP20S(Value)FCT-ND	5.36	14.43	33.15	RP20S(Value)FTR-ND	5,000	59.50/M	RP2012S-xxx-F

1% SMD Resistors Digi-Key® Assortment Kits

Digi-Key® 0402, 1%, 1/6W, RP Series, SMD Resistor Kits

RP1005SF-1-KIT-ND	10 each of values .10Ω ~ 47Ω	**$59.95**

Digi-Key® 0603, 1%, 1/5W, RP Series, SMD Resistor Kits

RP1608SF-1-KIT-ND	10 each of values .10Ω ~ 68Ω	**$49.95**

Digi-Key® 0805, 1%, 1/3W, RP Series, SMD Resistor Kits

RP2012SF-1-KIT-ND	10 each of values 12Ω ~ 100Ω	**$13.95**
RP2012TF-1-KIT-ND	10 each of values .10Ω ~ 10Ω	**$29.95**

THIN FILM TECHNOLOGY

SSM SUSUMU CO., LTD

0201 / 0402 / 0603 / 0805 SMD .1% and .5% Thin Film Chip Resistors – High Precision RR Series - 1/10, 1/16, 1/20 Watt

Susumu has been manufacturing thin film resistors since 1986 and is the primary thin film supplier in the world. Susumu's Number One status in thin film resistors can be attributed to the sales of the RR series thin film chip resistors. The RR series offers excellent TCR tolerances, Linearity specifications and Low Current Noise. These specifications contribute to circuit simplification, and cost savings as they eliminate the need for trimmer pots in the circuit for adjustment.

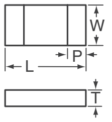

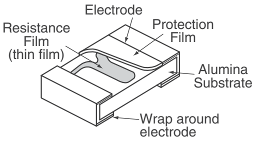

Current Noise Comparison
RR Series Thin Film vs. Thick Film
Why RR Series has lower current noise Specifications

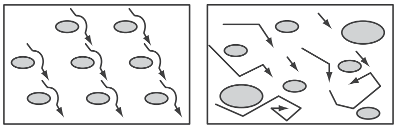
Resistance material of RR Series
Ni-Cr Alloy
Current flow is
practically even

Resistance material of Thick Film
Metal and Insulator Composite
Current flow is
not even

.1%, 1/16 Watt - Series 0603 — Resistor Values

100	200	300	432	604	1.05K	1.4K	1.91K	2.43K	3.3K	3.92K	4.99K	6.81K	9.09K	11.3K	15.4K	24.0K	32.4K	40.2K	53.6K	76.8K	102K	160K	280K
107	220	301	453	680	1.07K	1.5K	2.0K	2.49K	3.32K	4.02K	5.1K	7.15K	9.1K	12.0K	16.0K	24.9K	33.0K	41.2K	56.0K	80.6K	105K	180K	300K
110	221	330	470	750	1.1K	1.54K	2.1K	2.55K	3.4K	4.12K	5.11K	7.5K	9.31K	12.1K	16.5K	25.5K	33.2K	42.2K	56.2K	82.0K	110K	200K	301K
115	232	348	475	787	1.15K	1.58K	2.15K	2.61K	3.48K	4.22K	5.6K	7.68K	9.53K	12.4K	17.4K	26.7K	34.8K	43.0K	57.6K	84.5K	113K	215K	309K
120	237	357	499	820	1.18K	1.6K	2.2K	2.67K	3.57K	4.3K	5.62K	7.87K	9.76K	12.7K	18.0K	27.0K	35.7K	43.2K	60.4K	86.6K	120K	220K	324K
133	240	360	510	825	1.2K	1.65K	2.21K	2.7K	3.6K	4.32K	5.9K	8.06K	10.0K	13.0K	18.7K	27.4K	36.0K	47.0K	66.5K	88.7K	124K	221K	330K
147	249	390	523	845	1.21K	1.69K	2.26K	2.8K	3.65K	4.64K	6.04K	8.2K	10.2K	13.7K	20.0K	30.0K	36.5K	47.5K	68.0K	90.9K	127K	226K	332K
150	261	402	549	887	1.24K	1.74K	2.32K	2.87K	3.74K	4.7K	6.19K	8.25K	10.5K	14.3K	22.0K	30.1K	38.3K	49.9K	68.1K	93.1K	130K	232K	
162	267	422	560	910	1.3K	1.8K	2.37K	3.0K	3.83K	4.75K	6.2K	8.45K	10.7K	14.7K	22.1K	30.9K	39.0K	51.0K	73.2K	95.3K	140K	249K	
180	270	430	562	1.0K	1.33K	1.82K	2.4K	3.24K	3.9K	4.87K	6.8K	8.66K	11.0K	15.0K	23.2K	31.6K	39.2K	51.1K	75.0K	100K	150K	270K	

.1%, 1/10 Watt - Series 0805 — Resistor Values

100	162	274	392	549	845	1.21K	1.69K	2.2K	2.94K	3.65K	4.75K	6.2K	8.66K	11.3K	15.0K	18.0K	23.2K	28.7K	38.3K	48.7K	64.9K	86.6K	124K	200K	330K	750K
102	180	300	402	562	909	1.24K	1.74K	2.21K	3.0K	3.9K	4.87K	6.49K	8.87K	11.5K	15.4K	18.2K	24.0K	30.0K	39.0K	49.9K	66.5K	88.7K	133K	220K	360K	820K
110	187	301	453	604	953	1.27K	1.78K	2.32K	3.01K	3.92K	4.99K	6.8K	9.09K	12.0K	15.8K	18.7K	24.3K	30.1K	39.2K	51.0K	68.0K	90.9K	140K	237K	390K	1.0M
120	196	316	470	619	1.0K	1.3K	1.8K	2.4K	3.09K	4.02K	5.1K	6.81K	9.1K	12.1K	16.0K	19.1K	24.9K	31.6K	40.2K	51.1K	68.1K	97.6K	150K	243K	430K	
124	200	324	475	649	1.02K	1.33K	1.82K	2.49K	3.16K	4.22K	5.11K	7.15K	9.53K	12.4K	16.2K	20.0K	25.5K	33.0K	43.0K	53.6K	71.5K	100K	169K	249K	499K	
127	220	330	499	698	1.05K	1.5K	1.91K	2.55K	3.3K	4.3K	5.49K	7.5K	10.0K	13.0K	16.5K	21.0K	26.1K	33.2K	45.3K	56.0K	75.0K	102K	180K	270K	510K	
130	240	332	510	732	1.07K	1.54K	2.0K	2.61K	3.32K	4.32K	5.62K	7.87K	10.2K	13.3K	16.9K	21.5K	26.7K	34.8K	46.4K	56.2K	80.6K	110K	182K	280K	560K	
140	249	374	511	750	1.15K	1.6K	2.05K	2.7K	3.57K	4.64K	5.76K	8.2K	10.5K	13.7K	17.4K	22K	27.0K	36.0K	47K	60.4K	82.0K	115K	191K	300K	649K	
150	267	390	536	820	1.2K	1.62K	2.15K	2.74K	3.6K	4.7K	6.04K	8.25K	11.0K	14.3K	17.8K	22.1K	27.4K	36.5K	47.5K	62.0K	82.5K	120K	196K	301K	680K	

.5%, 1/20 Watt Series 0201

47	220	4.3K
82	470	4.7K
100	560	5.6K
120	3.3K	6.8K
130	3.9K	8.2K

.5%, 1/16 Watt - Series 0402 — Resistor Values

10	36	68	150	255*	402*	680	1.21K*	2.0K	2.87K*	4.02K*	5.6K	8.06K*	11.3K	15.4K*	23.2K*	33.2K*	49.9K*	64.9K*
15	39	75	160	270	430	750	1.3K	2.1K*	3.0K	4.3K	5.62K*	8.2K	12.0K	16.0K	24.0K	36.0K	51.0K	68.0K
20	47	82	169*	287*	470	820	1.5K	2.2K	3.16K*	4.53K*	5.76K	8.45K*	12.1K*	18.0K	24.9K*	36.5K*	56.0K	75.0K
22	49.9	100	180	300	499*	825*	1.6K	2.31K*	3.3K	4.7K	6.04K*	9.09K*	12.4K*	18.2K*	25.5K*	39.0K	56.2K*	82.0K
24	51	110	200	330	510	910	1.62K*	2.4K	3.32K*	4.99K*	6.2K	9.1K	13.0K	18.7K*	27.0K	40.2K*	57.6K*	86.6K*
27	56	120	220	332*	560	1.0K	1.8K	2.49K*	3.6K	5.1K	6.49K*	10.0K	13.7K*	20.0K	28.7K*	43.0K	59K*	90.9K*
30	56.2	130	240	360	620	1.1K	1.87K*	2.55K*	3.74K*	5.36K*	6.8K	10.5K*	14.7K*	21K*	30.0K	45.3K*	60.4K*	100K
33	62	137*	249*	390	649*	1.2K	1.96K*	2.7K	3.9K	5.49K*	7.5K	10.7K*	15.0K	22.0K	33.0K	47.0K	62.0K	

.5%, 1/16 Watt - Series 0603 — Resistor Values

10	22	38.3	56	120	200	332	475	681	1.1K	1.69K	2.55K	3.4K	4.99K	6.34K	8.66K	11.5K	16.2K	21.5K	28.7K	39.0K	52.3K	69.8K	120K	210K	309K
11	22.1	39	56.2	121	210	348	499	715	1.2K	1.78K	2.67K	3.57K	5.1K	6.65K	8.87K	12.0K	16.5K	22.0K	29.4K	40.2K	53.6K	75.0K	124K	220K	324K
11.8	24	39.2	62	124	220	360	510	750	1.21K	1.8K	2.7K	3.6K	5.11K	6.8K	9.09K	12.1K	17.4K	22.1K	30.0K	43.0K	56.0K	78.7K	130K	221K	330K
12	24.9	40.2	68	130	221	390	560	806	1.24K	1.96K	2.74K	3.9K	5.23K	6.81K	9.1K	12.4K	17.8K	22.6K	30.1K	43.2K	56.2K	80.6K	140K	240K	332K
12.1	27	43	68.1	147	240	392	562	820	1.3K	2.0K	2.87K	3.92K	5.36K	6.98K	9.31K	13.0K	18.0K	23.2K	32.4K	44.2K	59.0K	82.0K	147K	243K	357K
13	30	47	75	150	267	402	590	825	1.37K	2.1K	3.0K	4.02K	5.49K	7.15K	9.53K	13.3K	18.2K	24.0K	33.0K	47.0K	60.4K	84.5K	150K	249K	360K
15	33	47.5	82	154	270	422	604	845	1.4K	2.2K	3.01K	4.22K	5.6K	7.5K	9.76K	14.0K	18.7K	24.3K	33.2K	47.5K	61.9K	90.9K	160K	255K	
16	33.2	49.9	82.5	160	274	430	619	910	1.47K	2.21K	3.09K	4.3K	5.62K	8.06K	10.0K	14.3K	19.6K	24.9K	34.0K	48.7K	62.0K	91.0K	165K	270K	
18	34	51	91	165	300	432	620	1.0K	1.5K	2.4K	3.16K	4.7K	5.9K	8.2K	10.2K	15.0K	20.0K	27.0K	34.8K	49.9K	66.5K	100K	178K	284K	
20	36	51.1	100	180	301	464	649	1.02K	1.6K	2.43K	3.3K	4.75K	6.04K	8.25K	10.5K	15.8K	20.5K	27.4K	36.0K	51.0K	68.0K	107K	180K	300K	
21.5	37.4	54.9	110	182	330	470	680	1.07K	1.62K	2.49K	3.32K	4.87K	6.2K	8.45K	11.0K	16.0K	21.0K	28.0K	37.4K	51.1K	68.1K	110K	200K	301K	

.5%, 1/10 Watt - Series 0805 — Resistor Values

10	22	36	68	127	226	430	820	1.6K	2.2K	3.16K	3.92K	5.11K	6.81K	9.53K	13.3K	17.4K	24.0K	33.0K	45.3K	62.0K	86.6K	150K	270K	620K
11	22.6	39	75	130	240	470	910	1.65K	2.21K	3.24K	4.02K	5.36K	6.98K	10.0K	13.7K	18.0K	24.3K	33.2K	47.0K	64.9K	88.7K	160K	300K	680K
12	24	40.2	80.6	133	249	499	1.0K	1.78K	2.37K	3.3K	4.3K	5.49K	7.15K	10.2K	14.0K	18.7K	24.9K	35.7K	47.5K	66.5K	90.9K	178K	330K	750K
12.4	24.9	43	82	140	267	510	1.1K	1.8K	2.4K	3.32K	4.32K	5.6K	7.5K	10.5K	14.3K	19.1K	25.5K	36.0K	48.7K	68.0K	91.0K	180K	332K	820K
13	27	47	82.5	150	270	560	1.13K	1.82K	2.43K	3.4K	4.42K	5.62K	7.87K	11.0K	15.0K	20.0K	26.1K	36.5K	49.9K	71.5K	100K	191K	360K	910K
15	27.4	47.5	91	160	300	576	1.15K	1.87K	2.49K	3.48K	4.53K	5.76K	8.06K	11.8K	15.4K	21.0K	26.7K	39.0K	51.0K	73.2K	102K	200K	390K	1.0M
16	30	49.9	100	178	330	604	1.2K	1.91K	2.7K	3.6K	4.7K	5.9K	8.2K	12.0K	15.8K	21.5K	27.0K	39.2K	51.1K	75.0K	105K	205K	430K	
18	30.1	51	110	180	332	620	1.21K	2.0K	2.8K	3.65K	4.75K	6.04K	8.25K	12.1K	16.0K	22.0K	27.4K	40.2K	53.6K	80.6K	110K	220K	470K	
19.6	32.4	56	120	200	360	680	1.3K	2.05K	2.94K	3.74K	4.87K	6.2K	8.45K	12.4K	16.2K	22.1K	30.0K	41.2K	56.0K	82.0K	115K	240K	510K	
20	33	61.9	121	215	390	681	1.5K	2.1K	3.0K	3.83K	4.99K	6.65K	9.09K	12.7K	16.5K	23.2K	30.1K	43.0K	56.2K	82.5K	120K	249K	560K	
21.5	35.7	62	124	220	392	750	1.58K	2.15K	3.01K	3.9K	5.1K	6.8K	9.1K	13.0K	16.9K	23.7K	32.4K	44.2K	59.0K	84.5K	130K	255K	604K	

Description	Value Range (Ω)	TCR ppm/°C	Maximum Operating Voltage (V)	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Susumu Part No.
				L	W	P	T		10	50	200		Size	Pricing	
.1%, 0603, 1/16W	100 ~ 332K	±25	75	1.60	0.80	0.30	0.40	RR08P(Value)BCT-ND	5.78	15.54	35.70	RR08P(Value)BTR-ND	5,000	64.60/M	RR0816P-xxx-B
.1%, 08.05, 1/10W	100 ~ 1.0M	±25	100	2.00	1.25	0.40	0.40	RR12P(Value)BCT-ND	5.78	15.54	35.70	RR12P(Value)BTR-ND	5,000	64.60/M	RR1220P-xxx-B
.5%, 0201, 1/20W	47 ~ 8.2K	±25	15	0.06	0.30	0.12	0.23	RR03P(Value)DCT-ND	3.03	8.14	18.70	RR03P(Value)DTR-ND	5,000	30.60/M	RR0306P-xxx-D
.5%, 0402 1/16W	10 ~ 82	±100	25	1.00	0.50	0.20	0.35	RR05R(Value)DCT-ND	1.20	3.22	7.40	RR05R(Value)DTR-ND	10,000	8.82/M	RR0510R-xxx-D
	100 ~ 100K	±25						RR05P(Value)DCT-ND ***NEW!***	1.20	3.22	7.40	RR05P(Value)DTR-ND ***NEW!***	10,000	8.82/M	RR0510P-xxx-D
.5%, 0603, 1/16W	10 ~ 91	±50	75	1.60	0.80	0.30	0.40	RR08Q(Value)DCT-ND	1.40	3.77	8.67	RR08Q(Value)DTR-ND	5,000	11.16/M	RR0816Q-xxx-D
	100 ~ 360K	±25						RR08P(Value)DCT-ND	1.40	3.77	8.67	RR08P(Value)DTR-ND	5,000	11.16/M	RR0816P-xxx-D
.5%, 0805, 1/10W	10 ~ 91	±50	100	2.00	1.25	0.40	0.40	RR12Q(Value)DCT-ND	1.40	3.77	8.67	RR12Q(Value)DTR-ND	5,000	11.16/M	RR1220Q-xxx-D
	100 ~ 1.0M	±25						RR12P(Value)DCT-ND	1.40	3.77	8.67	RR12P(Value)DTR-ND	5,000	11.16/M	RR1220P-xxx-D

**Not available in assortment kits located below*

.1% and .5% SMD Resistors

Digi-Key® Assortment Kits

Digi-Key® 0603, .1%, 1/16W, RR Series, SMD Resistor Kits

RR0816PB-1-KIT-ND	10 each of values 100Ω ~ 1.0KΩ	**$59.95**
RR0816PB-2-KIT-ND	10 each of values 1.05KΩ ~ 3.9KΩ	**$59.95**
RR0816PB-3-KIT-ND	10 each of values 3.92KΩ ~ 15.0KΩ	**$59.95**
RR0816PB-4-KIT-ND	10 each of values 15.4KΩ ~ 75.0KΩ	**$59.95**
RR0816PB-5-KIT-ND	10 each of values 76.8KΩ ~ 332KΩ	**$49.95**

Digi-Key® 0805, .1%, 1/10W, RR Series, SMD Resistor Kits

RR1220PB-1-KIT-ND	10 each of values 100Ω ~ 1.02KΩ	**$59.95**
RR1220PB-2-KIT-ND	10 each of values 1.05KΩ ~ 4.75KΩ	**$59.95**
RR1220PB-3-KIT-ND	10 each of values 4.87KΩ ~ 21.0KΩ	**$59.95**
RR1220PB-4-KIT-ND	10 each of values 21.5KΩ ~ 88.7KΩ	**$59.95**
RR1220PB-5-KIT-ND	10 each of values 90.9KΩ ~ 1.0MΩ	**$49.95**

Digi-Key® 0201, .5%, 1/20W, RR Series, SMD Resistor Kits

RR0306PD-1-KIT-ND	10 each of values 47Ω ~ 8.2KΩ	**$9.95**

Digi-Key® 0402, .5%, 1/16W, RR Series, SMD Resistor Kits

RR0510RD-1-KIT-ND	10 each of values 10.0Ω ~ 82.0Ω	**$4.95**
RR0510PD-1-KIT-ND	10 each of values 100Ω ~ 4.3KΩ	**$9.95**
RR0510PD-2-KIT-ND	10 each of values 4.7KΩ ~ 100KΩ	**$7.95**

Digi-Key® 0603, .5%, 1/16W, RR Series, SMD Resistor Kits

RR0816QD-1-KIT-ND	10 each of values 10Ω ~ 91.0Ω	**$13.95**
RR0816PD-1-KIT-ND	10 each of values 100Ω ~ 806Ω	**$15.95**
RR0816PD-2-KIT-ND	10 each of values 820Ω ~ 4.75KΩ	**$15.95**
RR0816PD-3-KIT-ND	10 each of values 4.87KΩ ~ 18.0KΩ	**$15.95**
RR0816PD-4-KIT-ND	10 each of values 18.2KΩ ~ 68.1KΩ	**$15.95**
RR0816PD-5-KIT-ND	10 each of values 69.8KΩ ~ 360KΩ	**$12.95**

Digi-Key® 0805, .5%, 1/10W, RR Series, SMD Resistor Kits

RR1220QD-1-KIT-ND	10 each of values 10Ω ~ 91Ω	**$12.95**
RR1220PD-1-KIT-ND	10 each of values 100Ω ~ 1.6KΩ	**$15.95**
RR1220PD-2-KIT-ND	10 each of values 1.65KΩ ~ 5.9KΩ	**$15.95**
RR1220PD-3-KIT-ND	10 each of values 6.04KΩ ~ 24.3KΩ	**$15.95**
RR1220PD-4-KIT-ND	10 each of values 24.9KΩ ~ 110KΩ	**$15.95**
RR1220PD-5-KIT-ND	10 each of values 115KΩ ~ 1.0MΩ	**$9.95**

THIN FILM TECHNOLOGY
SSM SUSUMU CO., LTD

0402 / 0805 / 0815 / 0830 / 1206 / 2512 SMD 1%, 2% and 5% Thin Film Chip Resistors Low Resistance RL and PRL Series — 1/8, 1/4, 1/2, 1 and 2 Watt

Susumu's RL and PRL series current sensing resistors provide excellent heat dissipation which allows higher power handling in smaller package sizes. Their patented structure will not create "hot spots" and evenly distribute heat across the total surface area of the resistor.

A specially designed construction assures small dimensions and repressed surface temperature increase due to heat radiation and thermal conduction. This construction also minimizes the thermal effects on peripheral areas. Patent 2963671.

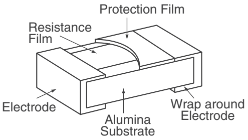

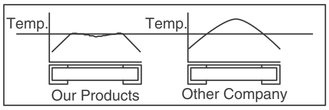

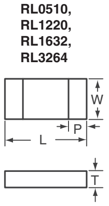

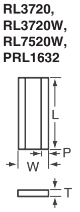

1%, 0402 Series, 1/8 Watt — RL Series Resistor Values

.15	.22	1.0	1.5	2.2	3.3	4.7

2%, 0402 Series, 1/8 Watt — RL Series Resistor Values

.15	.22	1.0	2.2

1%, 0805 Series, 1/4 Watt — RL Series Resistor Values

.10	.20	.39	.68	1.30	2.70	5.1	10.0
.11	.22	.43	.75	1.50	3.00	5.6	
.12	.24	.47	.82	1.6	3.30	6.2	
.13	.27	.50	.91	1.80	3.6	6.8	
.15	.30	.51	1.00	2.0	3.9	7.5	
.16	.33	.56	1.1	2.20	4.3	8.2	
.18	.36	.62	1.2	2.4	4.70	9.1	

2%, 0805 Series, 1/4 Watt — RL Series Resistor Values

.022	.056	.10	.20	.33	.82	1.80	4.70
.033	.068	.12	.22	.36	1.00	2.20	10.0
.047	.075	.15	.24	.47	1.30	2.70	
.05	.082	.18	.30	.68	1.50	3.30	

5%, 0805 Series, 1/4 Watt — RL Series Resistor Values

.010	.013	.018	.024	.030	.039	.05	.062	.082
.011	.015	.020	.025	.033	.043	.051	.068	.091
.012	.016	.022	.027	.036	.047	.056	.075	

1%, 0815 Series, 1/2 Watt — RL Series Resistor Values

.018	.022	.047	.10

1%, 0815 Series, 1 Watt — RL Series Resistor Values

.01	.02	.10	.22	.43	.68
.015	.05	.15	.33	.47	1.00

2%, 0815 Series, 1/2 Watt — RL Series Resistor Values

.018	.02	.022	.04	.047	.10

2%, 0815 Series, 1 Watt — RL Series Resistor Values

.01	.012	.018	.022	.028	.033	.047	.068
.011	.015	.02	.025	.030	.04	.05	

5%, 0815 Series, 1 Watt — RL Series Resistor Values

.004	.005	.008

1%, 0830 Series, 2 Watt — RL Series Resistor Values

.01	.02	.10	.15	.22	.33	.47

2%, 0830 Series, 2 Watt — RL Series Resistor Values

.01	.015	.022	.039	.050
.012	.02	.033	.047	.068

5%, 0830 Series, 2 Watt — RL Series Resistor Values

.001	.003	.005	.009
.002	.004	.006	

2%, 1206 Series, 1/2 Watt — RL Series Resistor Values

.010	.012	.015	.018	.022
.011	.013	.016	.020	.024

1%, 1206 Series, 1/2 Watt — RL Series Resistor Values

.027	.047	.082	.15	.27	.47	.82	1.5	2.7	4.7
.030	.051	.091	.16	.30	.51	.91	1.6	3.0	
.033	.056	.10	.18	.33	.56	1.0	1.8	3.3	
.036	.062	.11	.20	.36	.62	1.1	2.0	3.6	
.039	.068	.12	.22	.39	.68	1.2	2.2	3.9	
.043	.075	.13	.24	.43	.75	1.3	2.4	4.3	

1%, 2512 Series, 1 Watt — RL Series Resistor Values

.027	.039	.056	.082	.12	.18	.27	.39
.033	.047	.068	.10	.15	.22	.33	.47

2%, 2512 Series, 1 Watt — RL Series Resistor Values

.010	.015	.022
.012	.018	

PRL SERIES

1%, 1206 Series, 1 Watt — PRL Series Resistor Values

.005	.009	.013	.020	.030	.043	.056	.082
.006	.010	.015	.022	.033	.047	.062	.091
.007	.011	.016	.024	.036	.050	.068	.100
.008	.012	.018	.027	.039	.051	.075	

Description	Value Range (Ω)	TCR ppm/°C	Dimensions (mm)				Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Susumu Part No.
			L	W	P	T		10	50	200		Size	Pricing	
RL Series														
1%, 0402, 1/8W	.15 ~ 4.7	0~200	1.00	0.50	0.20	0.35	RL05S(Value)FCT-ND	5.91	15.91	36.55	RL05S(Value)FTR-ND	10,000	62.40/M	RL0510S-xxx-F
2%, 0402, 1/8W	.15 ~ 2.2	0~200	1.00	0.50	0.20	0.35	RL05S(Value)GCT-ND	5.64	15.17	34.85	RL05S(Value)GTR-ND	10,000	59.20/M	RL0510S-xxx-G
1%, 0805, 1/4W	.10 ~ 10.0	0~200	2.00	1.25	0.40	0.40	RL12S(Value)FCT-ND	3.44	9.25	21.25	RL12S(Value)FTR-ND	5,000	35.70/M	RL1220S-xxx-F
2%, 0805, 1/4W	.022 ~ .082	0~350	2.00	1.25	0.40	0.40	RL12T(Value)GCT-ND	5.36	14.43	33.15	RL12T(Value)GTR-ND	5,000	59.50/M	RL1220T-xxx-G
	.10 ~ 10.0	0~200					RL12S(Value)GCT-ND	3.44	9.25	21.25	RL12S(Value)GTR-ND	5,000	35.70/M	RL1220S-xxx-G
5%, 0805, 1/4W	.010 ~ .091	0~350	2.00	1.25	0.40	0.40	RL12T(Value)JCT-ND	4.13	11.10	25.50	RL12T(Value)JTR-ND	5,000	44.20/M	RL1220T-xxx-J
1%, 0815, 1/2W	.018 ~ .047	0~350	3.75	2.00	0.40	0.40	RL37T(Value)FCT-ND	13.54	36.45	83.73	RL37T(Value)FTR-ND	4,000	151.20/M	RL3720T-xxx-F
	.10	0~200					RL37S.10FCT-ND	13.61	36.63	84.15	RL37S.10FTR-ND	4,000	152.00/M	RL3720S-xxx-F
1%, 0815, 1W	.01 ~ .05	0~350	3.75	2.00	0.40	0.40	RL37WT(Value)FCT-ND	17.88	48.10	110.50	RL37WT(Value)FTR-ND	4,000	201.60/M	RL3720WT-xxx-F
	.10 ~ 1.00	0~200					RL37WS(Value)FCT-ND	17.88	48.10	110.50	RL37WS(Value)FTR-ND	4,000	201.60/M	RL3720WS- xxx-F
2%, 0815, 1/2W	.018 ~ .047	0~350	3.75	2.00	0.40	0.40	RL37T(Value)GCT-ND	13.61	36.63	84.15	RL37T(Value)GTR-ND	4,000	152.00/M	RL3720T-xxx-G
	.10	0~200					RL37S.10GCT-ND	12.38	33.30	76.50	RL37S.10GTR-ND	4,000	137.60/M	RL3720S-xxx-G
2%, 0815, 1W	.01 ~ .068	0~350	3.75	2.00	0.40	0.40	RL37WT(Value)GCT-ND	16.50	44.40	102.00	RL37WT(Value)GTR-ND	4,000	185.60/M	RL3720WT-xxx-G
5%, 0815, 1W	.004 ~ .008	0~350	3.75	2.00	0.40	0.40	RL37WT(Value)JCT-ND	19.80	53.28	122.40	RL37WT(Value)JTR-ND	4,000	224.00/M	RL3720WT-xxx-J
1%, 0830, 2W	.01 ~ .02	0~350	7.50	2.00	0.40	0.40	RL75WT(Value)FCT-ND	18.77	50.51	116.03	RL75WT(Value)FTR-ND	4,000	218.40/M	RL7520WT-xxx-F
	.10 ~ .47	0~200					RL75WS(Value)FCT-ND	19.32	51.99	119.43	RL75WS(Value)FTR-ND	4,000	218.40/M	RL7520WS-xxx-F
2%, 0830, 2W	.01 ~ .068	0~350	7.50	2.00	0.40	0.40	RL75WT(Value)GCT-ND	18.56	49.95	114.75	RL75WT(Value)GTR-ND	4,000	209.60/M	RL7520WT-xxx-G
5%, 0830, 2W	.001 ~ .009	0~350	7.50	2.00	0.40	0.40	RL75WT(Value)JCT-ND	21.18	56.98	130.90	RL75WT(Value)JTR-ND	4,000	240.00/M	RL7520WT-xxx-J
1%, 1206, 1/2W	.027 ~ .030	0~350	3.20	1.60	1.00	0.50	RL16T(Value)FCT-ND	11.55	31.08	71.40	RL16T(Value)FTR-ND	5,000	136.00/M	RL1632T-xxx-F
	.033 ~ .051	0~200					RL16S(Value)FCT-ND	11.55	31.08	71.40	RL16S(Value)FTR-ND	5,000	136.00/M	RL1632S-xxx-F
	.056 ~ 4.7	±100					RL16R(Value)FCT-ND	11.55	31.08	71.40	RL16R(Value)FTR-ND	5,000	136.00/M	RL1632R-xxx-F
2%, 1206, 1/2W	.010 ~ .024	0~350	3.20	1.60	1.00	0.50	RL16T(Value)GCT-ND	11.55	31.08	71.40	RL16T(Value)GTR-ND	5,000	136.00/M	RL1632T-xxx-G
1%, 2512, 1W	.027	0~350	6.40	3.20	2.00	0.50	RL32T.027FCT-ND	28.05	75.48	173.40	RL32T.027FTR-ND	5,000	340.00/M	RL3264T-xxx-F
	.033 ~ .047	0~200					RL32S(Value)FCT-ND	28.05	75.48	173.40	RL32S(Value)FTR-ND	5,000	340.00/M	RL3264S-xxx-F
	.056 ~ .47	±100					RL32R(Value)FCT-ND	28.05	75.48	173.40	RL32R(Value)FTR-ND	5,000	340.00/M	RL3264R-xxx-F
2%, 2512, 1W	.010 ~ .022	0~350	6.40	3.20	2.00	0.50	RL32T(Value)GCT-ND	28.05	75.48	173.40	RL32T(Value)GTR-ND	5,000	340.00/M	RL3264T-xxx-G
NEW! PRL Series - RoHS Compliant NEW!														
1%, 1206, 1W	.005 ~ .009	0~350	3.20	1.60	0.45	0.50	PRL1632(Value)FCT-ND	9.04	26.06	62.55	PRL1632(Value)FTR-ND	1,000	216.00	PRL1632-xxx-F-T1
	.010 ~ .018	0~200												
	.020 ~ .051	±100												
	.056 ~ .100	±50												

1% and 2% SMD Resistors Digi-Key® Assortment Kits

Digi-Key® 0805, 1%, 1/ 4W, RL Series
SMD Chip Resistor Kits

RL1220SF-1-KIT-ND 10 each of values .10Ω ~ 10.0Ω **$19.95**

Digi-Key® 0805, 2%, 1/4W, RL Series
SMD Chip Resistor Kits

RL1220SG-1-KIT-ND 10 each of values .022Ω ~ 10.0Ω.. **$15.95**

ROHM 0201 / 0402 / 0603 / 0805 / 1206 Surface Mount 1% and 5% Thick Film Chip

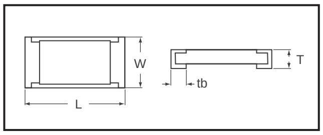

TEMPERATURE COEFFICIENT (ppm/C°)

Size Code:	0201		0402		0603		0805		1206	
Resistance Range (Ω):	1%	5%	1%	5%	1%	5%	1%	5%	1%	5%
1.0 ≤ R < 2.2	—	—	—	—	—	—	—	500±350	—	500 ±350
1.0 ≤ R < 10	—	—	—	+500/-250	—	—	±250	—	±250	—
2.2 ≤ R < 10	—	—	—	—	—	±500	—	±500	—	±500
10 ≤ R ≤ 2.2M	—	—	±100	—	±100	—	±100	—	±100	—
10 ≤ R ≤ 10M	±250	±250	—	±200	—	±200	—	±200	—	±200

NEW! MCR006 1%, 1/20 Watt — 0201 Series Resistor Values NEW!

10
12
15
18
20
22
24
24.3
25.5
27
33
39
43
47
49.9
51
56
68
73.2
75
82
100
110
130
150
165
200
300
430
470
510
680
750
820
910
976
1.0K
1.1K
1.2K
1.3K
1.5K
1.8K
2.0K
2.1K
2.2K
2.7K
2.87K
2.94K
3.0K
3.3K
3.9K
4.3K
4.7K
4.75K
4.99K
5.1K
5.6K
5.62K
6.2K
6.8K
7.5K
8.2K
8.25K
10K
11.3K
11.5K
12K
12.1K
15K
18K
22K
24K
24.9K
27.4K
29.4K
30K
30.1K
33.2K
40.2K
43.2K
44.2K
45.3K
47K
47.5K
51K
56K
68K
69.8K
80.6K
82.5K
91K
100K
120K
121K
140K
150K
162K
180K
220K
232K
240K
255K
280K
300K
324K
360K
402K
430K
470K
487K
510K
680K
750K
910K
1.0M
1.2M
1.5M
2.0M
2.2M
10M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @70°C	Dimensions (mm)				Digi-Key Part No.	Pricing			Digi-Key Part No.	T&R Pricing 15,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0201, 1/20 Watt	10 ~ 10M	25	0.05W	0.3	0.6	0.23	0.15	RHM(Value)ABCT-ND	1.18	3.18	7.31	RHM(Value)ABTR-ND	12.00/M	MCR006YZPFxxxx

MCR01 1%, 1/16 Watt — 0402 Series Resistor Values

1.00
4.70
10.0
22.0
24.9
26.1
28.0
33.0
36.0
39.0
49.9
51.0
56.0
62.0
68.0
68.1
75.0
100
120
150
160
180
220
280
300
301
330
332
430
464
470
499
510
511
560
620
680
715
910
1.00K
1.10K
1.20K
1.21K
1.50K
1.80K
1.82K
1.96K
2.20K
2.21K
2.40K
2.70K
3.01K
3.30K
3.74K
3.90K
3.92K
4.30K
4.64K
5.10K
5.36K
5.49K
5.62K
6.20K
6.49K
6.80K
7.50K
7.87K
8.06K
8.20K
8.87K
9.10K
9.53K
10.0K
10.7K
11.0K
11.3K
11.5K
12.0K
12.1K
13.0K
14.0K
15.0K
16.0K
16.2K
17.4K
18.0K
19.1K
20.0K
21.0K
22.0K
22.1K
24.9K
26.1K
27.0K
28.0K
30.0K
30.1K
33.0K
35.7K
36.0K
39.0K
39.2K
40.2K
42.2K
43.0K
45.3K
46.4K
47.0K
47.5K
49.9K
51.0K
51.1K
53.6K
56.0K
60.4K
61.9K
62.0K
64.9K
68.0K
78.7K
80.6K
82.0K
82.5K
88.7K
90.9K
91.0K
95.3K
97.6K
100K
110K
120K
121K
124K
127K
150K
180K
187K
200K
210K
220K
226K
240K
249K
261K
270K
300K
301K
332K
360K
430K
442K
470K
499K
510K
560K
562K
620K
649K
768K
1.00M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @70°C	Dimensions (mm)				Digi-Key Part No.	Pricing			Digi-Key Part No.	T&R Pricing 10,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0402, 1/16 Watt	1.00 ~ 4.70	50	0.063W	0.5	1.0	0.35	0.25	RHM(Value)LCT-ND	.82	2.21	5.07	RHM(Value)LTR-ND	5.30/M	MCR01MZPFLxxxx
1%, 0402, 1/16 Watt	10.0 ~ 1.00M	50	0.063W	0.5	1.0	0.35	0.25	RHM(Value)LCT-ND	.82	2.21	5.07	RHM(Value)LTR-ND	5.30/M	MCR01MZPFxxxx

MCR03 1%, 1/10 Watt — 0603 Series Resistor Values

10.0
10.2
10.5
10.7
11.0
11.3
11.5
11.8
12.0
12.1
12.4
12.7
13.0
13.3
13.7
14.0
14.3
14.7
15.0
15.4
15.8
16.0
16.2
16.5
16.9
17.4
17.8
18.0
18.2
18.7
19.1
19.6
20.0
20.5
21.0
21.5
22.0
22.1
22.6
23.2
23.7
24.0
24.3
24.9
25.5
26.1
26.7
27.0
27.4
28.0
28.7
29.4
30.0
30.1
30.9
31.6
32.4
33.0
33.2
34.0
34.8
35.7
36.0
36.5
37.4
38.3
39.0
39.2
40.2
41.2
42.2
43.0
43.2
44.2
45.3
46.4
47.0
47.5
48.7
49.9
51.0
51.1
52.3
53.6
54.9
56.0
56.2
57.6
59.0
60.4
61.9
62.0
63.4
64.9
66.5
68.0
68.1
69.8
71.5
73.2
75.0
76.8
78.7
80.6
82.0
82.5
84.5
88.7
90.9
91.0
93.1
95.3
97.6
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536
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560
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576
590
604
619
620
634
649
665
680
681
698
715
732
750
768
787
806
820
825
845
866
887
909
910
931
953
976
1.00K
1.02K
1.05K
1.07K
1.10K
1.13K
1.15K
1.18K
1.20K
1.21K
1.24K
1.27K
1.30K
1.33K
1.37K
1.40K
1.43K
1.47K
1.50K
1.54K
1.58K
1.60K
1.62K
1.65K
1.69K
1.74K
1.78K
1.80K
1.82K
1.87K
1.91K
1.96K
2.00K
2.05K
2.10K
2.15K
2.20K
2.21K
2.26K
2.32K
2.37K
2.40K
2.43K
2.49K
2.55K
2.61K
2.67K
2.70K
2.74K
2.80K
2.87K
2.94K
3.00K
3.01K
3.09K
3.16K
3.24K
3.30K
3.32K
3.40K
3.48K
3.57K
3.60K
3.65K
3.74K
3.83K
3.90K
3.92K
4.02K
4.12K
4.22K
4.30K
4.32K
4.42K
4.53K
4.64K
4.70K
4.75K
4.87K
4.99K
5.10K
5.11K
5.23K
5.36K
5.49K
5.60K
5.62K
5.76K
5.90K
6.04K
6.19K
6.20K
6.34K
6.49K
6.65K
6.80K
6.81K
6.98K
7.15K
7.32K
7.50K
7.68K
7.87K
8.06K
8.20K
8.25K
8.45K
8.66K
8.87K
9.09K
9.10K
9.31K
9.53K
9.76K
10.0K
10.2K
10.5K
10.7K
11.0K
11.3K
11.5K
11.8K
12.0K
12.1K
12.4K
12.7K
13.0K
13.3K
13.7K
14.0K
14.3K
14.7K
15.0K
15.4K
15.8K
16.0K
16.2K
16.5K
16.9K
17.4K
17.8K
18.0K
18.2K
18.7K
19.1K
19.6K
20.0K
20.5K
21.0K
21.5K
22.0K
22.1K
22.6K
23.2K
23.7K
24.0K
24.3K
24.9K
25.5K
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26.7K
27.0K
27.4K
28.0K
28.7K
29.4K
30.0K
30.1K
30.9K
31.6K
32.4K
33.0K
33.2K
34.0K
34.8K
35.7K
36.0K
36.5K
37.4K
38.3K
39.0K
39.2K
40.2K
41.2K
42.2K
43.0K
43.2K
44.2K
45.3K
46.4K
47.0K
47.5K
48.7K
49.9K
51.0K
51.1K
52.3K
53.6K
54.9K
56.2K
57.6K
59.0K
60.4K
61.9K
62.0K
63.4K
64.9K
66.5K
68.0K
68.1K
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71.5K
73.2K
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93.1K
95.3K
97.6K
100K
102K
105K
107K
110K
113K
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825K
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866K
887K
909K
910K
931K
953K
976K
1.00M
1.20M
1.21M
1.50M
2.00M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @70°C	Dimensions (mm)				Digi-Key Part No.	Pricing			Digi-Key Part No.	T&R Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0603, 1/10 Watt	10.0 ~ 2.00M	50	0.063W	0.8	1.6	0.45	0.3	RHM(Value)HCT-ND	.76	2.04	4.68	RHM(Value)HTR-ND	4.50/M	MCR03EZPFXxxxx

MCR10 1%, 1/8 Watt — 0805 Series Resistor Values

1.00
1.10
1.30
1.50
1.80
2.00
2.20
3.00
3.90
4.70
5.60
6.20
6.80
7.50
10.0
10.2
10.5
10.7
11.0
11.3
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13.3
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14.0
14.3
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15.0
15.4
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16.0
16.2
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16.9
17.4
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18.0
18.2
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24.0
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25.5
26.1
26.7
27.0
27.4
28.0
28.7
29.4
30.0
30.1
30.9
31.6
32.4
33.0
33.2
34.0
34.8
35.7
36.0
36.5
37.4
38.3
39.0
39.2
40.2
41.2
42.2
43.0
43.2
44.2
45.3
46.4
47.0
47.5
48.7
49.9
51.0
51.1
52.3
53.6
54.9
56.0
56.2
57.6
59.0
60.4
61.9
62.0
63.4
64.9
66.5
68.0
68.1
69.8
71.5
73.2
75.0
76.8
78.7
80.6
82.0
82.5
84.5
86.6
88.7
90.9
91.0
93.1
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1.00K
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2.20M

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @70°C	Dimensions (mm)				Digi-Key Part No.	Pricing			Digi-Key Part No.	T&R Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 0805, 1/8 Watt	1.00 ~ 7.50	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)CCT-ND	1.41	5.00	16.49	RHM(Value)CTR-ND	46.92/M	MCR10EZHFLxxxx
1%, 0805, 1/8 Watt	10.0 ~ 2.20M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)CCT-ND	.38	1.34	4.41	RHM(Value)CTR-ND	5.52/M	MCR10EZHFxxxx

(Continued)

ROHM

0201 / 0402 / 0603/ 0805/ 1206 Surface Mount 1% and 5% Thick Film Chip Resistors *(Cont.)*

MCR18 1%, 1/4 Watt — 1206 Series Resistor Values

1.00	10.0	16.9	27.4	43.2	68.1	115	191	309	487	787	1.30K	2.20K	3.48K	5.49K	8.87K	15.0K	24.3K	39.2K	62.0K	102K	174K	280K	442K	698K	1.18M	1.96M
1.10	10.2	17.4	28.0	44.2	69.8	118	196	316	499	806	1.33K	2.21K	3.57K	5.60K	9.09K	15.4K	24.9K	40.2K	63.4K	105K	178K	287K	453K	715K	1.20M	2.00M
1.20	10.5	17.8	28.7	45.3	71.5	120	200	324	510	820	1.37K	2.26K	3.60K	5.62K	9.10K	15.8K	25.5K	41.2K	64.9K	107K	180K	294K	464K	732K	1.21M	2.05M
1.30	10.7	18.0	29.4	46.4	73.2	121	205	330	511	825	1.40K	2.32K	3.65K	5.76K	9.31K	16.0K	26.1K	42.2K	66.5K	110K	182K	300K	470K	750K	1.24M	2.10M
1.50	11.0	18.2	30.0	47.0	75.0	124	210	332	523	845	1.43K	2.37K	3.74K	5.90K	9.53K	16.2K	26.7K	43.0K	68.0K	113K	187K	301K	475K	768K	1.27M	2.15M
1.60	11.3	18.7	30.1	47.5	76.8	127	215	340	536	866	1.47K	2.40K	3.83K	6.04K	9.76K	16.5K	27.0K	43.2K	68.1K	115K	191K	309K	487K	787K	1.30M	2.20M
1.80	11.5	19.1	30.9	48.7	78.7	130	220	348	549	887	1.50K	2.43K	3.90K	6.19K	10.0K	16.9K	28.0K	44.2K	69.8K	118K	196K	316K	499K	806K	1.33M	
2.00	11.8	19.6	31.6	49.9	80.6	133	221	357	560	909	1.54K	2.49K	3.92K	6.20K	10.2K	17.4K	28.7K	45.3K	71.5K	120K	200K	324K	510K	820K	1.37M	
2.20	12.0	20.0	32.4	51.0	82.0	137	226	360	562	910	1.58K	2.55K	4.02K	6.34K	10.5K	17.8K	29.4K	46.4K	73.2K	121K	205K	330K	511K	825K	1.40M	
2.40	12.1	20.5	33.0	51.1	82.5	140	232	365	576	931	1.60K	2.61K	4.12K	6.49K	10.7K	18.0K	30.0K	47.0K	75.0K	124K	210K	332K	523K	845K	1.43M	
2.70	12.4	21.0	33.2	52.3	84.5	143	237	374	590	953	1.62K	2.67K	4.22K	6.65K	11.0K	18.2K	30.1K	47.5K	76.8K	127K	215K	340K	536K	866K	1.47M	
3.00	12.7	21.5	34.0	53.6	86.6	147	240	383	604	976	1.65K	2.70K	4.30K	6.80K	11.3K	18.7K	30.9K	48.7K	78.7K	130K	220K	348K	549K	887K	1.50M	
3.30	13.0	22.0	34.8	54.9	88.7	150	243	390	619	1.00K	1.69K	2.74K	4.32K	6.81K	11.5K	19.1K	31.6K	49.9K	80.6K	133K	221K	357K	560K	909K	1.54M	
3.60	13.3	22.1	35.7	56.0	90.9	154	249	392	620	1.02K	1.74K	2.80K	4.42K	6.98K	11.8K	19.6K	32.4K	51.0K	82.0K	137K	226K	360K	562K	910K	1.58M	
3.90	13.7	22.6	36.0	56.2	91.0	158	255	402	634	1.05K	1.78K	2.87K	4.53K	7.15K	12.0K	20.0K	33.0K	51.1K	82.5K	140K	232K	365K	576K	931K	1.60M	
4.30	14.0	23.2	36.5	57.6	93.1	160	261	412	649	1.07K	1.80K	2.94K	4.64K	7.32K	12.1K	20.5K	33.2K	52.3K	84.5K	143K	237K	374K	590K	953K	1.62M	
4.70	14.3	23.7	37.4	59.0	95.3	162	267	422	665	1.10K	1.82K	3.00K	4.70K	7.50K	12.4K	21.0K	34.0K	53.6K	86.6K	147K	240K	383K	604K	976K	1.65M	
5.10	14.7	24.0	38.3	60.4	97.6	165	270	430	680	1.13K	1.87K	3.01K	4.75K	7.68K	12.7K	21.5K	34.8K	54.9K	88.7K	150K	243K	390K	619K	1.00M	1.69M	
5.60	15.0	24.3	39.0	61.9	100	169	274	432	681	1.15K	1.91K	3.09K	4.87K	7.87K	13.0K	22.0K	35.7K	56.0K	90.9K	154K	249K	392K	620K	1.02M	1.74M	
6.20	15.4	24.9	39.2	62.0	102	174	280	442	698	1.18K	1.96K	3.16K	4.99K	8.06K	13.3K	22.1K	36.0K	56.2K	91.0K	158K	255K	402K	634K	1.05M	1.78M	
6.80	15.8	25.5	40.2	63.4	105	178	287	453	715	1.20K	2.00K	3.24K	5.10K	8.20K	13.7K	22.6K	36.5K	57.6K	93.1K	160K	261K	412K	649K	1.07M	1.80M	
7.50	16.0	26.1	41.2	64.9	107	180	294	464	732	1.21K	2.05K	3.30K	5.11K	8.25K	14.0K	23.2K	37.4K	59.0K	95.3K	162K	267K	422K	665K	1.10M	1.82M	
8.20	16.2	26.7	42.2	66.5	110	182	300	470	750	1.24K	2.10K	3.32K	5.23K	8.45K	14.3K	23.7K	38.3K	60.4K	97.6K	165K	270K	430K	680K	1.13M	1.87M	
9.10	16.5	27.0	43.0	68.0	113	187	301	475	768	1.27K	2.15K	3.40K	5.36K	8.66K	14.7K	24.0K	39.0K	61.9K	100K	169K	274K	432K	681K	1.15M	1.91M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @70°C	Dimensions (mm)				Digi-Key Part No.	Pricing			Digi-Key Part No.	T&R Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
1%, 1206, 1/4 Watt	1.00 ~ 9.10	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)FCT-ND	2.03	7.20	23.73	RHM(Value)FTR-ND	71.76/M	MCR18EZHFLxxxx
1%, 1206, 1/4 Watt	10.0 ~ 2.20M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)FCT-ND	.47	1.66	5.46	RHM(Value)FTR-ND	9.12/M	MCR18EZHFxxxx

NEW! MCR006 5%, 1/20 Watt — 0201 Series Resistor Values *NEW!*

0.0	13	22	36	56	91	150	240	390	620	1.0K	1.6K	2.7K	4.3K	6.8K	11K	18K	30K	47K	75K	120K	200K	330K	510K	820K	1.3M	2.2M	3.6M	5.6M	9.1M
5.6	15	24	39	62	100	160	270	430	680	1.1K	1.8K	3.0K	4.7K	7.5K	12K	20K	33K	51K	82K	130K	220K	360K	560K	910K	1.5M	2.4M	3.9M	6.2M	10M
10	16	27	43	68	110	180	300	470	750	1.2K	2.0K	3.3K	5.1K	8.2K	13K	22K	36K	56K	91K	150K	240K	390K	620K	1.0M	1.6M	2.7M	4.3M	6.8M	
11	18	30	47	75	120	200	330	510	820	1.3K	2.2K	3.6K	5.6K	9.1K	15K	24K	39K	62K	100K	160K	270K	430K	680K	1.1M	1.8M	3.0M	4.7M	7.5M	
12	20	33	51	82	130	220	360	560	910	1.5K	2.4K	3.9K	6.2K	10K	16K	27K	43K	68K	110K	180K	300K	470K	750K	1.2M	2.0M	3.3M	5.1M	8.2M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @70°C	Dimensions (mm)				Digi-Key Part No.	Pricing			Digi-Key Part No.	T&R Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0201, 1/20 Watt	0.0 ~ 10M	25	0.05	0.3	0.6	0.23	0.15	RHM(Value)GCT-ND	.69	1.86	4.28	RHM(Value)GTR-ND	3.12/M	MCR006YZPJxxxx

MCR01 5%, 1/16 Watt — 0402 Series Resistor Values

0.0	2.2	4.3	8.2	18	30	43	68	100	200	300	430	620	1.0K	2.0K	3.0K	4.3K	6.2K	10K	18K	30K	47K	82K	150K	270K	470K	1.5M
1.0	3.0	4.7	10	20	33	47	75	150	220	330	470	680	1.2K	2.2K	3.3K	4.7K	6.8K	11K	22K	33K	56K	100K	180K	300K	560K	3.0M
1.1	3.3	5.1	12	22	36	51	82	160	240	360	510	820	1.5K	2.4K	3.6K	5.1K	7.5K	12K	24K	39K	62K	110K	200K	330K	680K	3.3M
2.0	3.9	5.6	15	27	39	56	91	180	270	390	560	910	1.8K	2.7K	3.9K	5.6K	8.2K	15K	27K	43K	68K	120K	220K	430K	1.0M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @70°C	Dimensions (mm)				Digi-Key Part No.	Pricing			Digi-Key Part No.	T&R Pricing 10,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0402, 1/16 Watt	0.0 ~ 3.3M	50	0.063	0.5	1.0	0.35	0.25	RHM(Value)JCT-ND	.74	1.99	4.57	RHM(Value)JTR-ND	3.73/M	MCR01MZPJxxxx

MCR03 5%, 1/10 Watt — 0603 Series Resistor Values

0.0	1.8	3.9	7.5	15	30	56	110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K	360K	680K	1.3M	2.7M	5.1M
1.0	2.2	4.3	8.2	16	33	62	120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K	390K	750K	1.5M	3.0M	5.6M
1.1	2.4	4.7	9.1	18	36	68	130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	220K	430K	820K	1.6M	3.3M	6.2M
1.2	2.7	5.1	10	20	39	75	150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	240K	470K	910K	1.8M	3.6M	6.8M
1.3	3.0	5.6	11	22	43	82	160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	270K	510K	1.0M	2.0M	3.9M	8.2M
1.5	3.3	6.2	12	24	47	91	180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	300K	560K	1.1M	2.2M	4.3M	10M
1.6	3.6	6.8	13	27	51	100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K	330K	620K	1.2M	2.4M	4.7M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @70°C	Dimensions (mm)				Digi-Key Part No.	Pricing			Digi-Key Part No.	T&R Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0603, 1/10 Watt	0.0 ~ 10M	50	0.100W	0.8	1.6	0.45	0.3	RHM(Value)GCT-ND	.69	1.86	4.28	RHM(Value)GTR-ND	3.12/M	MCR03EZPJxxxx

MCR10 5%, 1/8 Watt — 0805 Series Resistor Values

0.0	1.8	3.6	6.8	13	27	51	100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K	330K	620K	1.2M	2.4M	4.7M	9.1M
1.0	2.0	3.9	7.5	15	30	56	110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K	360K	680K	1.3M	2.7M	5.1M	10M
1.1	2.2	4.3	8.2	16	33	62	120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K	390K	750K	1.5M	3.0M	5.6M	
1.2	2.4	4.7	9.1	18	36	68	130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	220K	430K	820K	1.6M	3.3M	6.2M	
1.3	2.7	5.1	10	20	39	75	150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	240K	470K	910K	1.8M	3.6M	6.8M	
1.5	3.0	5.6	11	22	43	82	160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	270K	510K	1.0M	2.0M	3.9M	7.5M	
1.6	3.3	6.2	12	24	47	91	180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	300K	560K	1.1M	2.2M	4.3M	8.2M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @70°C	Dimensions (mm)				Digi-Key Part No.	Pricing			Digi-Key Part No.	T&R Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 0805, 1/8 Watt	0.00 ~ 10M	150	0.125W	1.25	2.0	0.55	0.4	RHM(Value)ACT-ND	.76	2.04	4.68	RHM(Value)ATR-ND	4.50/M	MCR10EZHJxxxx

MCR18 5%, 1/4 Watt — 1206 Series Resistor Values

0.0	1.8	3.6	6.8	13	27	56	110	220	430	820	1.6K	3.3K	6.2K	12K	24K	47K	91K	180K	360K	680K	1.3M	2.7M	5.1M	10M
1.0	2.0	3.9	7.5	15	30	62	120	240	470	910	1.8K	3.6K	6.8K	13K	27K	51K	100K	200K	390K	750K	1.5M	3.0M	5.6M	
1.1	2.2	4.3	8.2	16	33	68	130	270	510	1.0K	2.0K	3.9K	7.5K	15K	30K	56K	110K	220K	430K	820K	1.6M	3.3M	6.2M	
1.2	2.4	4.7	9.1	18	36	75	150	300	560	1.1K	2.2K	4.3K	8.2K	16K	33K	62K	120K	240K	470K	910K	1.8M	3.6M	6.8M	
1.3	2.7	5.1	10	20	39	82	160	330	620	1.2K	2.4K	4.7K	9.1K	18K	36K	68K	130K	270K	510K	1.0M	2.0M	3.9M	7.5M	
1.5	3.0	5.6	11	22	43	91	180	360	680	1.3K	2.7K	5.1K	10K	20K	39K	75K	150K	300K	560K	1.1M	2.2M	4.3M	8.2M	
1.6	3.3	6.2	12	24	51	100	200	390	750	1.5K	3.0K	5.6K	11K	22K	43K	82K	160K	330K	620K	1.2M	2.4M	4.7M	9.1M	

Description	Value Range (Ω)	Rated Voltage (V)	Rated Power @70°C	Dimensions (mm)				Digi-Key Part No.	Pricing			Digi-Key Part No.	T&R Pricing 5,000	Rohm Part No.
				W	L	T	tb		10	50	200			
5%, 1206, 1/4 Watt	0.0 ~ 10M	200	0.25W	1.6	3.2	0.55	0.5	RHM(Value)ECT-ND	.91	2.46	5.65	RHM(Value)ETR-ND	7.95/M	MCR18EZHJxxxx

YAGEO Surface Mount 1% & 5% Thick Film Chip Resistors

DESCRIPTION: The resistors are constructed on a high grade ceramic body (aluminum oxide). Internal metal electrodes are added at each end and connected by a resistive paste which is applied to the top surface of the substrate. The composition of the paste is adjusted to give the approximate resistance required and the value is trimmed to within tolerance, by laser cutting of the resistive layer. The resistive layer is covered with a protective coat. Finally, the two external end terminations are added. For ease of soldering the outer layer of these end terminations is a lead/tin alloy. End terminations on RoHS Complaint parts are pure tin. -

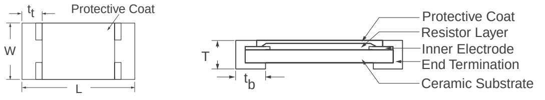

Size	Power Rating at 70°	Working Voltage (Maximum)	Dimensions (mm) L	W	T	t_t	t_b	Resistance Range	Temperature Coefficient
0402	1/16 W	50 V	1.00	0.50	0.35	0.20	0.25	5%	10 Ω < R ≤ 10 MΩ ± 100ppm/°C
								1%	1 Ω < R ≤ 10 Ω ± 200ppm/°C
0603	1/10 W	50 V	1.60	0.80	0.45	0.25	0.25	5%	10 Ω < R ≤ 10 MΩ ± 100ppm/°C
								1%	R ≤ 10 Ω; R > 10 Ω ± 200ppm/°C
0805	1/8 W	150 V	2.00	1.25	0.50	0.35	0.35	5%	10 Ω < R ≤ 10 MΩ ± 100ppm/°C
								1%	R ≤ 10 Ω; R > 10 Ω ± 200ppm/°C
1206	1/4 W	200 V	3.10	1.60	0.55	0.45	0.40	5%	10 Ω < R ≤ 10 MΩ ± 100ppm/°C
								1%	R ≤ 10 Ω; R > 10 Ω ± 200ppm/°C

1%, 1/10 Watt — 0603 Series

Resistor Values

1.00	17.4	43.2	115	301	750	2.05K	5.10K	13.3K	34.8K	88.7K	240K	590K
2.00	17.8	44.2	118	309	768	2.10K	5.11K	13.7K	35.7K	90.9K	243K	604K
2.10	18.0	45.3	120	316	787	2.15K	5.23K	14.0K	36.0K	91.0K	249K	619K
2.15	18.2	46.4	121	324	806	2.20K	5.36K	14.3K	36.5K	93.1K	255K	620K
2.21	18.7	47.0	124	330	820	2.21K	5.49K	14.7K	37.4K	95.3K	261K	634K
2.43	19.1	47.5	127	332	825	2.26K	5.60K	15.0K	38.3K	97.6K	267K	649K
2.49	19.6	48.7	130	340	845	2.32K	5.62K	15.4K	39.0K	100K	270K	665K
2.74	20.0	49.9	133	348	866	2.37K	5.76K	15.8K	39.2K	102K	274K	680K
3.01	20.5	51.0	137	357	887	2.40K	5.90K	16.0K	40.2K	105K	280K	681K
3.32	21.0	51.1	140	360	909	2.43K	6.04K	16.2K	41.2K	107K	287K	698K
3.92	21.5	52.3	143	365	910	2.49K	6.19K	16.5K	42.2K	110K	294K	715K
4.02	22.0	53.6	147	374	931	2.55K	6.20K	16.9K	43.0K	113K	300K	732K
4.42	22.1	54.9	150	383	953	2.61K	6.34K	17.4K	43.2K	115K	301K	750K
4.75	22.6	56.0	154	390	976	2.67K	6.49K	17.8K	44.2K	118K	309K	768K
4.99	23.2	56.2	158	392	1.00K	2.70K	6.65K	18.0K	45.3K	120K	316K	787K
5.11	23.7	57.6	160	402	1.02K	2.74K	6.80K	18.2K	46.4K	121K	324K	806K
5.23	24.0	59.0	162	412	1.05K	2.80K	6.81K	18.7K	47.0K	124K	330K	820K
5.62	24.3	60.4	165	422	1.07K	2.87K	6.98K	19.1K	47.5K	127K	332K	825K
5.76	24.9	61.9	169	430	1.10K	2.94K	7.15K	19.6K	48.7K	130K	340K	845K
6.04	25.5	62.0	174	432	1.13K	3.00K	7.32K	20.0K	49.9K	133K	348K	866K
6.81	26.1	63.4	178	442	1.15K	3.01K	7.50K	20.5K	51.0K	137K	357K	887K
7.50	26.7	64.9	180	453	1.18K	3.09K	7.68K	21.0K	51.1K	140K	360K	909K
10.0	27.0	66.5	182	464	1.20K	3.16K	7.87K	21.5K	52.3K	143K	365K	910K
10.2	27.4	68.0	187	470	1.21K	3.24K	8.06K	22.0K	53.6K	147K	374K	931K
10.5	28.0	68.1	191	475	1.24K	3.30K	8.20K	22.1K	54.9K	150K	383K	953K
10.7	28.7	69.8	196	487	1.27K	3.32K	8.25K	22.6K	56.2K	154K	390K	976K
11.0	29.4	71.5	200	499	1.30K	3.40K	8.45K	23.2K	57.6K	158K	392K	1.00M
11.3	30.0	73.2	205	510	1.33K	3.48K	8.66K	23.7K	59.0K	160K	402K	1.20M
11.5	30.1	75.0	210	511	1.37K	3.57K	8.87K	24.0K	60.4K	162K	412K	1.21M
11.8	30.9	76.8	215	523	1.40K	3.60K	9.09K	24.3K	61.9K	165K	422K	1.50M
12.0	31.6	78.7	220	536	1.43K	3.65K	9.10K	24.9K	62.0K	169K	430K	2.00M
12.1	32.4	80.6	221	549	1.47K	3.74K	9.31K	25.5K	63.4K	174K	432K	2.21M
12.4	33.0	82.0	226	560	1.50K	3.83K	9.53K	26.1K	64.9K	178K	442K	2.49M
12.7	33.2	82.5	232	562	1.54K	3.90K	9.76K	26.7K	66.5K	180K	453K	2.94M
13.0	34.0	84.5	237	576	1.58K	3.92K	10.0K	27.0K	68.0K	182K	464K	3.01M
13.3	34.8	88.7	240	590	1.60K	4.02K	10.2K	27.4K	68.1K	187K	470K	4.70M
13.7	35.7	90.9	243	604	1.62K	4.12K	10.5K	28.0K	69.8K	191K	475K	4.75M
14.0	36.0	91.0	249	619	1.65K	4.22K	10.7K	28.7K	71.5K	196K	487K	10.0M
14.3	36.5	93.1	255	620	1.69K	4.30K	11.0K	29.4K	73.2K	200K	499K	
14.7	37.4	95.3	261	634	1.74K	4.32K	11.3K	30.0K	75.0K	205K	510K	
15.0	38.3	97.6	267	649	1.78K	4.42K	11.5K	30.1K	76.8K	210K	511K	
15.4	39.0	100	270	665	1.80K	4.53K	11.8K	30.9K	78.7K	215K	523K	
15.8	39.2	102	274	680	1.82K	4.64K	12.0K	31.6K	80.6K	220K	536K	
16.0	40.2	105	280	681	1.87K	4.70K	12.1K	32.4K	82.0K	221K	549K	
16.2	41.2	107	287	698	1.91K	4.75K	12.4K	33.0K	82.5K	226K	560K	
16.5	42.2	110	294	715	1.96K	4.87K	12.7K	33.2K	84.5K	232K	562K	
16.9	43.0	113	300	732	2.00K	4.99K	13.0K	34.0K	86.6K	237K	576K	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		Yageo Part No.
		10	50	200	Size	Price	
2.10 - 5.76Ω	311-(Value)HCT-ND	.77	2.07	4.76	5,000	4.80/M	9C06031AxxxxFGHFT
10.0 - 4.75MΩ	311-(Value)HCT-ND	.77	2.07	4.76		4.80/M	9C06031AxxxxFKHFT
RoHS Compliant							
1.00 - 10.0MΩ	311-(Value)HRCT-ND	.77	2.07	4.76	5,000	4.80/M	RC0603FR-07xxxxL

*For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0603 Series 1% Thick Film Chip Resistor Kits - 1/10 Watt

PHH1-KIT-ND 50 each of values 1.00Ω to 7.50Ω 22 values (1,100 total pieces)................... **$19.95**

PHH2-KIT-ND 50 each of values 10.0Ω to 97.6Ω 113 values (5,650 total pieces) **$79.95**

PHH3-KIT-ND 50 each of values 100Ω to 976Ω 114 values (5,700 total pieces) **$79.95**

PHH4-KIT-ND 50 each of values 1.00KΩ to 9.76KΩ 114 values (5,700 total pieces)...................... **$79.95**

PHH5-KIT-ND 50 each of values 10.0KΩ to 97.6KΩ 114 values (5,700 total pieces)...................... **$79.95**

PHH6-KIT-ND 50 each of values 100KΩ to 1.00MΩ 115 values (5,750 total pieces)...................... **$79.95**

1%, 1/16 Watt — 0402 Series

Resistor Values

1.00	51.0	220	511	1.80K	3.92K	7.87K	12.0K	21.0K	36.0K	51.0K	82.0K	124K	261K	560K
4.70	56.0	280	560	1.82K	4.30K	8.06K	12.1K	22.0K	39.0K	51.1K	82.5K	127K	270K	562K
10.0	62.0	300	620	1.96K	4.64K	8.20K	13.0K	22.1K	39.2K	53.6K	88.7K	150K	300K	620K
22.0	68.0	301	680	2.20K	5.10K	8.87K	14.0K	24.9K	40.2K	56.0K	90.9K	180K	301K	649K
24.9	68.1	330	715	2.21K	5.36K	9.10K	15.0K	26.1K	42.2K	60.4K	91.0K	187K	332K	768K
26.1	75.0	332	910	2.40K	5.49K	9.53K	16.0K	27.0K	43.0K	61.9K	95.3K	200K	360K	1.00M
28.0	100	430	1.00K	2.70K	5.62K	10.0K	16.2K	28.0K	45.3K	62.0K	97.6K	210K	430K	3.30M
33.0	120	464	1.10K	3.01K	6.20K	10.7K	17.4K	30.0K	46.4K	64.9K	100K	220K	442K	3.60M
36.0	150	470	1.20K	3.30K	6.49K	11.0K	18.0K	30.1K	47.0K	68.0K	110K	226K	470K	
39.0	160	499	1.21K	3.74K	6.80K	11.3K	19.1K	33.0K	47.5K	78.7K	120K	240K	499K	
49.9	180	510	1.50K	3.90K	7.50K	11.5K	20.0K	35.7K	49.9K	80.6K	121K	249K	510K	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		Yageo Part No.
		10	50	200	Size	Price	
26.1 - 3.30MΩ	311-(Value)LCT-ND	.94	2.52	5.78	10,000	7.56/M	9C04021AxxxxFLHF3
RoHS Compliant							
1.00 - 3.60MΩ	311-(Value)LRCT-ND	.94	2.52	5.78	10,000	7.56/M	RC0402FR-07xxxxL

*For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0402 Series 1% Thick Film Chip Resistor Kits - 1/16 Watt

PHL1-KIT-ND 50 each of values 1.00Ω to 75.0Ω 17 values (850 total pieces)...................... **$20.95**

PHL2-KIT-ND 50 each of values 100Ω to 910Ω 22 values (1,100 total pieces)................... **$25.95**

PHL3-KIT-ND 50 each of values 1.00KΩ to 9.53KΩ 33 values (1,650 total pieces)................... **$35.95**

PHL4-KIT-ND 50 each of values 10.0KΩ to 97.6KΩ 56 values (2,800 total pieces)................... **$59.95**

PHL5-KIT-ND 50 each of values 100KΩ to 1.00MΩ 32 values (1,600 total pieces)................... **$39.95**

1%, 1/8 Watt — 0805 Series

Resistor Values

1.00	3.01	8.66	24.9	63.4	180	470	1.27K	3.48K	9.09K	25.5K	64.9K	182K	475K	1.37M	4.22M
1.02	3.09	8.87	25.5	64.9	182	475	1.30K	3.57K	9.10K	26.1K	66.5K	187K	487K	1.40M	4.32M
1.05	3.16	9.09	26.1	66.5	187	487	1.33K	3.60K	9.31K	26.7K	68.0K	191K	499K	1.43M	4.42M
1.07	3.24	9.31	26.7	68.0	191	499	1.37K	3.65K	9.53K	27.0K	68.1K	196K	510K	1.47M	4.53M
1.10	3.32	9.53	27.0	68.1	196	510	1.40K	3.74K	9.76K	27.4K	69.8K	200K	511K	1.50M	4.64M
1.13	3.40	9.76	27.4	69.8	200	511	1.43K	3.83K	10.0K	28.0K	71.5K	205K	523K	1.54M	4.70M
1.15	3.48	10.0	28.0	71.5	205	523	1.47K	3.90K	10.2K	28.7K	73.2K	210K	536K	1.58M	4.75M
1.18	3.57	10.2	28.7	73.2	210	536	1.50K	3.92K	10.5K	29.4K	75.0K	215K	549K	1.62M	4.87M
1.21	3.65	10.5	29.4	75.0	215	549	1.54K	4.02K	10.7K	30.0K	76.8K	220K	560K	1.65M	4.99M
1.24	3.74	10.7	30.0	76.8	220	560	1.58K	4.12K	11.0K	30.1K	78.7K	221K	562K	1.69M	5.11M
1.27	3.83	11.0	30.1	78.7	221	562	1.60K	4.22K	11.3K	30.9K	80.6K	226K	576K	1.74M	5.23M
1.30	3.90	11.3	30.9	80.6	226	576	1.62K	4.30K	11.5K	31.6K	82.0K	232K	590K	1.80M	5.36M
1.33	3.92	11.5	31.6	82.0	232	590	1.65K	4.32K	11.8K	32.4K	82.5K	237K	604K	1.82M	5.49M
1.37	4.02	11.8	32.4	82.5	237	604	1.69K	4.42K	12.0K	33.0K	84.5K	240K	619K	1.87M	5.62M
1.40	4.12	12.0	33.0	84.5	240	619	1.74K	4.53K	12.1K	33.2K	86.6K	243K	620K	1.91M	5.76M
1.43	4.22	12.1	33.2	86.6	243	620	1.78K	4.64K	12.4K	34.0K	88.7K	249K	634K	1.96M	5.90M
1.47	4.32	12.4	34.0	88.7	249	634	1.80K	4.70K	12.7K	34.8K	90.9K	255K	649K	2.00M	6.04M
1.50	4.42	12.7	34.8	90.9	255	649	1.82K	4.75K	13.0K	35.7K	91.0K	261K	665K	2.05M	6.19M
1.54	4.53	13.0	35.7	91.0	261	665	1.87K	4.87K	13.3K	36.0K	93.1K	267K	680K	2.10M	6.34M
1.58	4.64	13.3	36.0	93.1	267	680	1.91K	4.99K	13.7K	36.5K	95.3K	270K	681K	2.15M	6.49M
1.62	4.70	13.7	36.5	95.3	270	681	1.96K	5.10K	14.0K	37.4K	97.6K	274K	698K	2.20M	6.65M
1.65	4.75	14.0	37.4	97.6	274	698	2.00K	5.11K	14.3K	38.3K	100K	280K	715K	2.21M	6.81M
1.69	4.87	14.3	38.3	100	280	715	2.05K	5.23K	14.7K	39.0K	102K	287K	732K	2.26M	6.98M
1.74	4.99	14.7	39.0	102	287	732	2.10K	5.36K	15.0K	39.2K	105K	294K	750K	2.32M	7.15M
1.78	5.11	15.0	39.2	105	294	750	2.15K	5.49K	15.4K	40.2K	107K	300K	768K	2.37M	7.32M
1.80	5.23	15.4	40.2	107	300	768	2.20K	5.60K	15.8K	41.2K	110K	301K	787K	2.43M	7.50M
1.82	5.36	15.8	41.2	110	301	787	2.21K	5.62K	16.0K	42.2K	113K	309K	806K	2.49M	7.68M
1.87	5.49	16.0	42.2	113	309	806	2.26K	5.76K	16.2K	43.0K	115K	316K	820K	2.55M	7.87M
1.91	5.60	16.2	43.0	115	316	820	2.32K	5.90K	16.5K	43.2K	118K	324K	825K	2.61M	8.06M
1.96	5.62	16.5	43.2	118	324	825	2.37K	6.04K	16.9K	44.2K	120K	330K	845K	2.67M	8.25M
2.00	5.76	16.9	44.2	120	330	845	2.40K	6.19K	17.4K	45.3K	121K	332K	866K	2.74M	8.45M
2.05	5.90	17.4	45.3	121	332	866	2.43K	6.20K	17.8K	46.4K	124K	340K	887K	2.80M	8.66M
2.10	6.04	17.8	46.4	124	340	887	2.49K	6.34K	18.0K	47.0K	127K	348K	909K	2.87M	8.87M
2.15	6.19	18.0	47.0	127	348	909	2.55K	6.49K	18.2K	47.5K	130K	357K	931K	2.94M	9.09M
2.20	6.20	18.2	47.5	130	357	910	2.61K	6.65K	18.7K	48.7K	133K	360K	953K	3.01M	9.31M
2.21	6.34	18.7	48.7	133	360	931	2.67K	6.80K	19.1K	49.9K	137K	365K	976K	3.09M	9.53M
2.26	6.49	19.1	49.9	137	365	953	2.70K	6.81K	19.6K	51.0K	140K	374K	1.00M	3.16M	9.76M
2.32	6.65	19.6	51.0	140	374	976	2.74K	6.98K	20.0K	51.1K	143K	383K	1.02M	3.24M	10.0M
2.37	6.80	20.0	51.1	143	383	1.00K	2.80K	7.15K	20.5K	52.3K	147K	390K	1.05M	3.30M	
2.43	6.81	20.5	52.3	147	390	1.02K	2.87K	7.32K	21.0K	53.6K	150K	392K	1.10M	3.32M	
2.49	6.98	21.0	53.6	150	392	1.05K	2.94K	7.50K	21.5K	54.9K	154K	402K	1.13M	3.40M	
2.55	7.15	21.5	54.9	154	402	1.07K	3.00K	7.68K	22.0K	56.0K	158K	412K	1.15M	3.48M	
2.61	7.32	22.0	56.0	158	412	1.10K	3.01K	7.87K	22.1K	56.2K	160K	422K	1.18M	3.57M	
2.67	7.50	22.1	56.2	160	422	1.13K	3.09K	8.06K	22.6K	57.6K	162K	430K	1.20M	3.65M	
2.74	7.68	22.6	57.6	162	430	1.15K	3.16K	8.20K	23.2K	59.0K	165K	432K	1.21M	3.74M	
2.80	7.87	23.2	59.0	165	432	1.18K	3.24K	8.25K	23.7K	60.4K	169K	442K	1.24M	3.83M	
2.87	8.06	23.7	60.4	169	442	1.20K	3.30K	8.45K	24.0K	61.9K	174K	453K	1.27M	3.92M	
2.94	8.25	24.0	61.9	174	453	1.21K	3.32K	8.66K	24.3K	62.0K	178K	464K	1.30M	4.02M	
3.00	8.45	24.3	62.0	178	464	1.24K	3.40K	8.87K	24.9K	63.4K	180K	470K	1.33M	4.12M	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		Yageo Part No.
		10	50	200	Size	Price	
1.02 - 9.76Ω	311-(Value)CCT-ND	.80	2.15	4.93	5,000	5.40/M	9C08052AxxxxFGHFT
10.0 - 9.76MΩ	311-(Value)CCT-ND	.80	2.15	4.93		5.40/M	9C08052AxxxxxFKHFT
RoHS Compliant							
1.00 - 10.0MΩ	311-(Value)CRCT-ND	.80	2.15	4.93	5,000	5.40/M	RC0805FR-07xxxxL

*For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0805 Series 1% Thick Film Chip Resistor Kits - 1/8 Watt

PHC1A-KIT-ND 50 each of values 1.00Ω to 9.76Ω 104 values (5,200 total pieces) **$79.95**

PHC1-KIT-ND 200 each of values 1.00Ω to 9.76Ω 104 values (20,800 total pieces)............... **$169.95**

PHC2A-KIT-ND 50 each of values 10.0Ω to 97.6Ω 114 values (5,700 total pieces) **$79.95**

PHC2-KIT-ND 200 each of values 10.0Ω to 97.6Ω 114 values (22,800 total pieces)............... **$169.95**

PHC3A-KIT-ND 50 each of values 100Ω to 976Ω 114 values (5,700 total pieces) **$79.95**

PHC3-KIT-ND 200 each of values 100Ω to 976Ω 114 values (22,800 total pieces)............... **$169.95**

PHC4A-KIT-ND 50 each of values 1.00KΩ to 9.76KΩ 114 values (5,700 total pieces) **$79.95**

PHC4-KIT-ND 200 each of values 1.00KΩ to 9.76KΩ 114 values (22,800 total pieces)............... **$169.95**

PHC5A-KIT-ND 50 each of values 10.0KΩ to 97.6KΩ 113 values (5,650 total pieces) **$79.95**

PHC5-KIT-ND 200 each of values 10.0KΩ to 97.6KΩ 113 values (22,600 total pieces)..................... **$169.95**

PHC6A-KIT-ND 50 each of values 100KΩ to 1.00MΩ 115 values (5,750 total pieces) **$79.95**

PHC6-KIT-ND 200 each of values 100KΩ to 1.00MΩ 115 values (23,000 total pieces)............... **$169.95**

(Continued)

1%, 1/4 Watt — 1206 Series

Resistor Values

1.00	3.09	8.87	27.4	78.7	243	681	2.20K	6.19K	19.1K	56.0K	174K	499K	1.54M	4.42M
1.02	3.16	9.09	28.0	80.6	249	698	2.21K	6.20K	19.6K	56.2K	178K	510K	1.58M	4.53M
1.05	3.24	9.10	28.7	82.0	255	715	2.26K	6.34K	20.0K	57.6K	180K	511K	1.60M	4.64M
1.07	3.30	9.31	29.4	82.5	261	732	2.32K	6.49K	20.5K	59.0K	182K	523K	1.62M	4.70M
1.10	3.32	9.53	30.0	84.5	267	750	2.37K	6.65K	21.0K	60.4K	187K	536K	1.65M	4.75M
1.13	3.40	9.76	30.1	86.6	270	768	2.40K	6.80K	21.5K	61.9K	191K	549K	1.69M	4.87M
1.15	3.48	10.0	30.9	88.7	274	787	2.43K	6.81K	22.0K	62.0K	196K	560K	1.74M	4.99M
1.18	3.57	10.2	31.6	90.9	280	806	2.49K	6.98K	22.1K	63.4K	200K	562K	1.78M	5.10M
1.20	3.60	10.5	32.4	91.0	287	820	2.55K	7.15K	22.6K	64.9K	205K	576K	1.80M	5.11M
1.21	3.65	10.7	33.0	93.1	294	825	2.61K	7.32K	23.2K	66.5K	210K	590K	1.82M	5.23M
1.24	3.74	11.0	33.2	95.3	300	845	2.67K	7.50K	23.7K	68.0K	215K	604K	1.87M	5.36M
1.27	3.83	11.3	34.0	97.6	301	866	2.70K	7.68K	24.0K	68.1K	220K	619K	1.91M	5.49M
1.30	3.90	11.5	34.8	100	309	887	2.74K	7.87K	24.3K	69.8K	221K	620K	1.96M	5.60M
1.33	3.92	11.8	35.7	102	316	909	2.80K	8.06K	24.9K	71.5K	226K	634K	2.00M	5.62M
1.37	4.02	12.0	36.0	105	324	910	2.87K	8.20K	25.5K	73.2K	232K	649K	2.05M	5.76M
1.40	4.12	12.1	36.5	107	330	931	2.94K	8.25K	26.1K	75.0K	237K	665K	2.10M	5.90M
1.43	4.22	12.4	37.4	110	332	953	3.00K	8.45K	26.7K	76.8K	240K	680K	2.15M	6.04M
1.47	4.30	12.7	38.3	113	340	976	3.01K	8.66K	27.0K	78.7K	243K	681K	2.20M	6.19M
1.50	4.32	13.0	39.0	115	348	1.00K	3.09K	8.87K	28.0K	80.6K	249K	698K	2.21M	6.20M
1.54	4.42	13.3	39.2	118	357	1.02K	3.16K	9.09K	28.7K	82.0K	255K	715K	2.26M	6.34M
1.58	4.53	13.7	40.2	120	360	1.05K	3.24K	9.10K	29.4K	82.5K	261K	732K	2.32M	6.49M
1.60	4.64	14.0	41.2	121	365	1.07K	3.30K	9.31K	30.0K	84.5K	267K	750K	2.37M	6.65M
1.62	4.70	14.3	42.2	124	374	1.10K	3.32K	9.53K	30.1K	86.6K	270K	768K	2.40M	6.80M
1.65	4.75	14.7	43.0	127	383	1.13K	3.40K	9.76K	30.9K	88.7K	274K	787K	2.43M	6.81M
1.69	4.87	15.0	43.2	130	390	1.15K	3.48K	10.0K	31.6K	90.9K	280K	806K	2.49M	6.98M
1.74	4.99	15.4	44.2	133	392	1.18K	3.57K	10.2K	32.4K	91.0K	287K	820K	2.55M	7.15M
1.78	5.10	15.8	45.3	137	402	1.20K	3.60K	10.5K	33.0K	93.1K	294K	825K	2.61M	7.32M
1.80	5.11	16.0	46.4	140	412	1.21K	3.65K	10.7K	33.2K	95.3K	300K	845K	2.67M	7.50M
1.82	5.23	16.2	47.0	143	422	1.24K	3.74K	11.0K	34.0K	97.6K	301K	866K	2.70M	7.68M
1.87	5.36	16.5	47.5	147	430	1.27K	3.83K	11.3K	34.8K	100K	309K	887K	2.74M	7.87M
1.91	5.49	16.9	48.7	150	432	1.30K	3.90K	11.5K	35.7K	102K	316K	909K	2.80M	8.06M
1.96	5.60	17.4	49.9	154	442	1.33K	3.92K	11.8K	36.0K	105K	324K	910K	2.87M	8.20M
2.00	5.62	17.8	51.0	158	453	1.37K	4.02K	12.0K	36.5K	107K	330K	931K	2.94M	8.25M
2.05	5.76	18.0	51.1	160	464	1.40K	4.12K	12.1K	37.4K	110K	332K	953K	3.00M	8.45M
2.10	5.90	18.2	52.3	162	470	1.43K	4.22K	12.4K	38.3K	113K	340K	976K	3.01M	8.66M
2.15	6.04	18.7	53.6	165	475	1.47K	4.30K	12.7K	39.0K	115K	348K	1.00M	3.09M	8.87M
2.20	6.19	19.1	54.9	169	487	1.50K	4.32K	13.0K	39.2K	118K	357K	1.02M	3.16M	9.09M
2.21	6.20	19.6	56.0	174	499	1.54K	4.42K	13.3K	40.2K	120K	360K	1.05M	3.24M	9.10M
2.26	6.34	20.0	56.2	178	510	1.58K	4.53K	13.7K	41.2K	121K	365K	1.07M	3.30M	9.31M
2.32	6.49	20.5	57.6	180	511	1.60K	4.64K	14.0K	42.2K	124K	374K	1.10M	3.32M	9.53M
2.37	6.65	21.0	59.0	182	523	1.62K	4.70K	14.3K	43.0K	127K	383K	1.13M	3.40M	9.76M
2.40	6.80	21.5	60.4	187	536	1.65K	4.75K	14.7K	43.2K	130K	390K	1.15M	3.48M	10.0M
2.43	6.81	22.0	61.9	191	549	1.69K	4.87K	15.0K	44.2K	133K	392K	1.18M	3.57M	
2.49	6.98	22.1	62.0	196	560	1.74K	4.99K	15.4K	45.3K	137K	402K	1.20M	3.60M	
2.55	7.15	22.6	63.4	200	562	1.78K	5.10K	15.8K	46.4K	140K	412K	1.21M	3.65M	
2.61	7.32	23.2	64.9	205	576	1.80K	5.11K	16.0K	47.0K	143K	422K	1.24M	3.74M	
2.67	7.50	23.7	66.5	210	590	1.82K	5.23K	16.2K	47.5K	147K	430K	1.27M	3.83M	
2.70	7.68	24.0	68.0	215	604	1.87K	5.36K	16.5K	48.7K	150K	432K	1.30M	3.90M	
2.74	7.87	24.3	68.1	220	619	1.91K	5.49K	16.9K	49.9K	154K	442K	1.33M	3.92M	
2.80	8.06	24.9	69.8	221	620	1.96K	5.60K	17.4K	51.0K	158K	453K	1.37M	4.02M	
2.87	8.20	25.5	71.5	226	634	2.00K	5.62K	17.8K	51.1K	160K	464K	1.40M	4.12M	
2.94	8.25	26.1	73.2	232	649	2.05K	5.76K	18.0K	52.3K	162K	470K	1.43M	4.22M	
3.00	8.45	26.7	75.0	237	665	2.10K	5.90K	18.2K	53.6K	165K	475K	1.47M	4.30M	
3.01	8.66	27.0	76.8	240	680	2.15K	6.04K	18.7K	54.9K	169K	487K	1.50M	4.32M	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		Yageo Part No.
		10	50	200	Size	Price	
1.02 - 9.76Ω	311-(Value)FCT-ND	.88	2.37	5.44	5,000	7.20/M	9C12063AxxxxFGHFT
10.0 - 9.76MΩ	311-(Value)FCT-ND	.88	2.37	5.44		7.20/M	9C12063AxxxxFKHFT
RoHS Compliant							
1.00 - 10.0MΩ	311-(Value)FRCT-ND	.88	2.37	5.44	5,000	7.20/M	RC1206FR-07xxxxL

*For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 1206 Series 1% Thick Film Chip Resistor Kits - 1/4 Watt

PHF1A-KIT-ND 50 each of values 1.00Ω to 9.76Ω 114 values (5,700 total pieces) **$125.95**

PHF1-KIT-ND 200 each of values 1.00Ω to 9.76Ω 114 values (22,800 total pieces)............... **$239.95**

PHF2A-KIT-ND 50 each of values 10.0Ω to 97.6Ω 114 values (5,700 total pieces) **$125.95**

PHF2-KIT-ND 200 each of values 10.0Ω to 97.6Ω 114 values (22,800 total pieces) **$239.95**

PHF3A-KIT-ND 50 each of values 100Ω to 976Ω 114 values (5,700 total pieces) **$125.95**

PHF3-KIT-ND 200 each of values 100Ω to 976Ω 114 values (22,800 total pieces) **$239.95**

PHF4A-KIT-ND 50 each of values 1.00KΩ to 9.76KΩ 114 values (5,700 total pieces) **$125.95**

PHF4-KIT-ND 200 each of values 1.00KΩ to 9.76KΩ 114 values (22,800 total pieces) **$239.95**

PHF5A-KIT-ND 50 each of values 10.0KΩ to 97.6KΩ 113 values (5,650 total pieces) **$125.95**

PHF5-KIT-ND 200 each of values 10.0KΩ to 97.6KΩ 113 values (22,600 total pieces)...............**$239.95**

PHF6A-KIT-ND 50 each of values 100KΩ to 1.00MΩ 115 values (5,750 total pieces) **$125.95**

PHF6-KIT-ND 200 each of values 100KΩ to 1.00MΩ 115 values (23,000 total pieces)...............**$239.95**

5%, 1/16 Watt — 0402 Series

Resistor Values

0.0	3.9	12	33	68	180	360	680	2.0K	3.9K	7.5K	22K	47K	120K	330K	3.0M
1.0	4.3	15	36	75	200	390	820	2.2K	4.3K	8.2K	24K	56K	150K	430K	3.3M
1.1	4.7	18	39	82	220	430	910	2.4K	4.7K	10K	27K	62K	180K	470K	
2.0	5.1	20	43	91	240	470	1.0K	2.7K	5.1K	11K	30K	68K	200K	560K	
2.2	5.6	22	47	100	270	510	1.2K	3.0K	5.6K	12K	33K	82K	220K	680K	
3.0	8.2	27	51	150	300	560	1.5K	3.3K	6.2K	15K	39K	100K	270K	1.0M	
3.3	10	30	56	160	330	620	1.8K	3.6K	6.8K	18K	43K	110K	300K	1.5M	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		Yageo Part No.
		10	50	200	Size	Price	
1.0 - 3.3MΩ	311-(Value)JCT-ND	.80	2.15	4.93	10,000	4.86/M	9C04021AxxxxJLHF3
RoHS Compliant							
0.0 - 3.3MΩ	311-(Value)JRCT-ND	.80	2.15	4.93	10,000	4.86/M	RC0402JR-07xxxxL

*For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0402 Series 5% Thick Film Chip Resistor Kits - 1/16 Watt

PHJ1A-KIT-ND 50 each of every other value from 1.0, 2.0, 3.0, 3.9, etc. to 1.0MΩ 52 values (2,600 total pieces).. **$45.95**

PHJ1-KIT-ND 200 each of every other value from 1.0, 2.0, 3.0, 3.9, etc. to 1.0MΩ 52 values (10,400 total pieces).. **$85.95**

PHJ2A-KIT-ND 50 each of every other value from 1.1, 2.2, 3.3, 4.3, etc. to 680KΩ 51 values (2,550 total pieces).. **$45.95**

PHJ2-KIT-ND 200 each of every other value from 1.1, 2.2, 3.3, 4.3, etc. to 680KΩ 51 values (10,200 total pieces).. **$85.95**

5%, 1/10 Watt — 0603 Series

Resistor Values

0.0	3.3	10	33	100	330	1.0K	3.3K	10K	33K	100K	330K	1.0M	3.3M
1.0	3.6	11	36	110	360	1.1K	3.6K	11K	36K	110K	360K	1.1M	3.6M
1.1	3.9	12	39	120	390	1.2K	3.9K	12K	39K	120K	390K	1.2M	3.9M
1.2	4.3	13	43	130	430	1.3K	4.3K	13K	43K	130K	430K	1.3M	4.3M
1.3	4.7	15	47	150	470	1.5K	4.7K	15K	47K	150K	470K	1.5M	4.7M
1.5	5.1	16	51	160	510	1.6K	5.1K	16K	51K	160K	510K	1.6M	5.1M
1.6	5.6	18	56	180	560	1.8K	5.6K	18K	56K	180K	560K	1.8M	5.6M
1.8	6.2	20	62	200	620	2.0K	6.2K	20K	62K	200K	620K	2.0M	6.2M
2.2	6.8	22	68	220	680	2.2K	6.8K	22K	68K	220K	680K	2.2M	6.8M
2.4	7.5	24	75	240	750	2.4K	7.5K	24K	75K	240K	750K	2.4M	8.2M
2.7	8.2	27	82	270	820	2.7K	8.2K	27K	82K	270K	820K	2.7M	10M
3.0	9.1	30	91	300	910	3.0K	9.1K	30K	91K	300K	910K	3.0M	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		Yageo Part No.
		10	50	200	Size	Price	
1.0 - 10.0MΩ	311-(Value)GCT-ND	.70	1.89	4.34	5,000	3.30/M	9C04021AxxxxJLHF3
RoHS Compliant							
0.0 - 10.0MΩ	311-(Value)GRCT-ND	.70	1.89	4.34	5,000	3.30/M	RC0603JR-07xxxxL

*For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0603 Series 5% Thick Film Chip Resistor Kits - 1/10 Watt

PHG1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (3,600 total pieces) **$49.95**

PHG1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (14,400 total pieces)............................ **$89.95**

PHG2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.2, etc. to 1.0MΩ 72 values (3,600 total pieces) **$49.95**

PHG2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.2, etc. to 1.0MΩ 72 values (14,400 total pieces)............................ **$89.95**

5%, 1/8 Watt — 0805 Series

Resistor Values

0.0	3.3	11	39	130	470	1.6K	5.6K	20K	68K	240K	820K	3.0M	10M
1.0	3.6	12	43	150	510	1.8K	6.2K	22K	75K	270K	910K	3.3M	
1.1	3.9	13	47	160	560	2.0K	6.8K	24K	82K	300K	1.0M	3.6M	
1.2	4.3	15	51	180	620	2.2K	7.5K	27K	91K	330K	1.1M	3.9M	
1.3	4.7	16	56	200	680	2.4K	8.2K	30K	100K	360K	1.2M	4.3M	
1.5	5.1	18	62	220	750	2.7K	9.1K	33K	110K	390K	1.3M	4.7M	
1.6	5.6	20	68	240	820	3.0K	10K	36K	120K	430K	1.5M	5.1M	
1.8	6.2	22	75	270	910	3.3K	11K	39K	130K	470K	1.6M	5.6M	
2.0	6.8	24	82	300	1.0K	3.6K	12K	43K	150K	510K	1.8M	6.2M	
2.2	7.5	27	91	330	1.1K	3.9K	13K	47K	160K	560K	2.0M	6.8M	
2.4	8.2	30	100	360	1.2K	4.3K	15K	51K	180K	620K	2.2M	7.5M	
2.7	9.1	33	110	390	1.3K	4.7K	16K	56K	200K	680K	2.4M	8.2M	
3.0	10	36	120	430	1.5K	5.1K	18K	62K	220K	750K	2.7M	9.1M	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		Yageo Part No.
		10	50	200	Size	Price	
1.1 - 10.0MΩ	311-(Value)ACT-ND	.76	2.04	4.68	5,000	4.50/M	9C04021AxxxxJLHF3
RoHS Compliant							
0.0 - 10.0MΩ	311-(Value)ARCT-ND	.76	2.04	4.68	5,000	4.50/M	RC0805JR-07xxxxL

*For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 0805 Series 5% Thick Film Chip Resistor Kits - 1/8 Watt

PHA1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, to 1.0MΩ 73 values (3,650 total pieces)... **$59.95**

PHA1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, to 1.0MΩ 73 values (14,600 total pieces)...**$109.95**

PHA2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.0, to 910KΩ 72 values (3,600 total pieces)... **$59.95**

PHA2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.0, to 910KΩ 72 values (14,400 total pieces)...**$109.95**

5%, 1/4 Watt — 1206 Series

Resistor Values

0.0	3.6	13	56	220	820	3.3K	12K	47K	180K	680K	2.7M	10M
1.0	3.9	15	62	240	910	3.6K	13K	51K	200K	750K	3.0M	
1.1	4.3	16	68	270	1.0K	3.9K	15K	56K	220K	820K	3.3M	
1.2	4.7	18	75	300	1.1K	4.3K	16K	62K	240K	910K	3.6M	
1.3	5.1	20	82	330	1.2K	4.7K	18K	68K	270K	1.0M	3.9M	
1.5	5.6	22	91	360	1.3K	5.1K	20K	75K	300K	1.1M	4.3M	
1.6	6.2	24	100	390	1.5K	5.6K	22K	82K	330K	1.2M	4.7M	
1.8	6.8	27	110	430	1.6K	6.2K	24K	91K	360K	1.3M	5.1M	
2.0	7.5	30	120	470	1.8K	6.8K	27K	100K	390K	1.5M	5.6M	
2.2	8.2	33	130	510	2.0K	7.5K	30K	110K	430K	1.6M	6.2M	
2.4	9.1	36	150	560	2.2K	8.2K	33K	120K	470K	1.8M	6.8M	
2.7	10	39	160	620	2.4K	9.1K	36K	130K	510K	2.0M	7.5M	
3.0	11	43	180	680	2.7K	10K	39K	150K	560K	2.2M	8.2M	
3.3	12	51	200	750	3.0K	11K	43K	160K	620K	2.4M	9.1M	

Value Range	Digi-Key Part No.	Cut Tape Pricing			Tape & Reel*		Yageo Part No.
		10	50	200	Size	Price	
0.0 - 9.1MΩ	311-(Value)ECT-ND	.78	2.11	4.85	5,000	5.10/M	9C04021AxxxxJLHF3
RoHS Compliant							
0.0 - 10.0MΩ	311-(Value)ERCT-ND	.78	2.11	4.85	5,000	5.10/M	RC1206JR-07xxxxL

*For Tape and Reel part number, change CT-ND to TR-ND.

Digi-Key® Assortment Kits 1206 Series 5% Thick Film Chip Resistor Kits - 1/4 Watt

PHE1A-KIT-ND 50 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (3,600 total pieces)... **$59.95**

PHE1-KIT-ND 200 each of every other value from 1.0, 1.2, 1.5, 1.8, etc. to 910KΩ 72 values (14,400 total pieces)...................................**$109.95**

PHE2A-KIT-ND 50 each of every other value from 1.1, 1.3, 1.6, 2.0, etc. to 1.0MΩ 72 values (3,600 total pieces)... **$59.95**

PHE2-KIT-ND 200 each of every other value from 1.1, 1.3, 1.6, 2.0, etc. to 1.0MΩ 72 values (14,400 total pieces)... **$109.95**

Panasonic® 0201 / 0402 / 0603 / 0805 / 1206 / 1210 / 2010 / 2512
1% Precision Thick Film Chip Resistors
Surface Mount Available In 1/20, 1/16, 1/10, 1/8, 1/4, 1/2 and 1 Watt

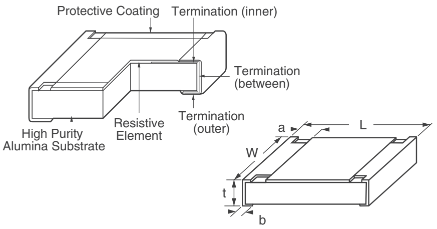

Size	Power Rating at 70°	Maximum RCWV*	Maximum Overload Voltage	Dimensions L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
0201	1/20 W	15 V	30 V	0.60	0.30	0.10	0.15	0.23	10 ~ 1MΩ±200ppm/°C	ERJ-1GEFxxxC
0402	1/16 W	50 V	100 V	1.00	0.50	0.20	0.25	0.35	10 ~ 1MΩ±100ppm/°C	ERJ-2RKFxxxxX
0603	1/16 W - (1/10 W)**	50 V	100 V	1.60	0.80	0.30	0.30	0.45	10 ~ 1MΩ±100ppm/°C	ERJ-3EKFxxxxV
0805	1/10 W - (1/8 W)**	150 V	200 V	2.00	1.25	0.40	0.40	0.60	10 ~ 2.2MΩ±100ppm/°C	ERJ-6ENFxxxxV
1206	1/8 W - (1/4 W)**	200 V	400 V	3.20	1.60	0.50	0.50	0.60		ERJ-8ENFxxxxV
1210	1/4 W	200 V	400 V	3.20	2.50	0.50	0.50	0.60	10 ~ 1MΩ±100ppm/°C	ERJ-14NFxxxxU
2010	1/2 W	200 V	400 V	5.00	2.50	0.60	0.60	0.60		ERJ-12SFxxxxU
2512	1 W	200 V	400 V	6.40	3.20	0.65	0.60	0.60		ERJ-1TYFxxxU

* Rated Continuous Working Voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Values}}$, or max. RCWV listed above, whichever is less ** Available for reduction of load of pulse characteristics (RCWV x 2.5 RCWV x 2.0, R≥1.1kΩ)v600

Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape & Reel Pricing 4,000	5,000	10,000	12,000	15,000	24,000	25,000	30,000	Panasonic Part No.
0201, 1/20 W	10 ~ 1.0M‡	P(Value)ABCT-ND	2.64	7.10	16.32	55.68	P(Value)ABTR-ND	15,000	—	—	—	—	41.04/M	—	—	36.48/M	ERJ-1GEFxxxC
0402, 1/16 W	10.0 ~ 1.00M	P(Value)LCT-ND	.98	2.65	6.08	20.74	P(Value)LTR-ND	10,000	—	—	8.51/M	—	—	—	—	7.56/M	ERJ-2RKFxxxxX
0603, 1/10 W	10.0 ~ 2.20M	P(Value)HCT-ND	.90	2.42	5.57	18.99	P(Value)HTR-ND	5,000	—	7.35/M	6.62/M	—	—	—	5.88/M	—	ERJ-3EKFxxxxV
0805, 1/8 W	10.0 ~ 2.20M	P(Value)CCT-ND	.91	2.44	5.61	19.14	P(Value)CTR-ND	5,000	—	7.80/M	7.02/M	—	—	—	6.24/M	—	ERJ-6ENFxxxxV
1206, 1/4 W	10.0 ~ 2.20M	P(Value)FCT-ND	1.17	3.15	7.23	24.65	P(Value)FTR-ND	5,000	—	13.50/M	12.15/M	—	—	—	10.80/M	—	ERJ-8ENFxxxxV
1210, 1/4 W	10.0 ~ 1.00M	P(Value)AACT-ND	3.78	10.18	23.38	79.75	P(Value)AATR-ND	5,000	—	70.50/M	63.45/M	—	—	—	56.40/M	—	ERJ-14NFxxxxU
2010, 1/2 W	10.0 ~ 1M‡	P(Value)ACCT-ND	6.88	18.50	42.50	145.00	P(Value)ACTR-ND	5,000	—	138.00/M	124.20/M	—	—	—	110.40/M	—	ERJ-12SFxxxxU
2512, 1 W	10 ~ 1M‡	PT(Value)AFCT-ND ***NEW!***	6.43	22.78	75.04	310.88	PT(Value)AFTR-ND ***NEW!***	4,000	248.00/M	—	—	206.00/M	—	171.00/M	—	—	ERJ-1TNFxxxU

Panasonic Standard Resistor Values

10.0	23.2	53.6	124	287	665	1.54K	3.57K	8.25K	19.1K	44.2K	102K	237K	549K
10.2	23.7	54.9	127	294	681	1.58K	3.65K	8.45K	19.6K	45.3K	105K	243K	562K
10.5	24.3	56.2	130	301	698	1.62K	3.74K	8.66K	20.0K	46.4K	107K	249K	576K
10.7	24.9	57.6	133	309	715	1.65K	3.83K	8.87K	20.5K	47.5K	110K	255K	590K
11.0	25.5	59.0	137	316	732	1.69K	3.92K	9.09K	21.0K	48.7K	113K	261K	604K
11.3	26.1	60.4	140	324	750	1.74K	4.02K	9.31K	21.5K	49.9K	115K	267K	619K
11.5	26.7	61.9	143	332	768	1.78K	4.12K	9.53K	22.1K	51.1K	118K	274K	634K
11.8	27.4	63.4	147	340	787	1.82K	4.22K	9.76K	22.6K	52.3K	121K	280K	649K
12.1	28.0	64.9	150	348	806	1.87K	4.32K	10.0K	23.2K	53.6K	124K	287K	665K
12.4	28.7	66.5	154	357	825	1.91K	4.42K	10.2K	23.7K	54.9K	127K	294K	681K
12.7	29.4	68.1	158	365	845	1.96K	4.53K	10.5K	24.3K	56.2K	130K	301K	698K
13.0	30.1	69.8	162	374	866	2.00K	4.64K	10.7K	24.9K	57.6K	133K	309K	715K
13.3	30.9	71.5	165	383	887	2.05K	4.75K	11.0K	25.5K	59.0K	137K	316K	732K
13.7	31.6	73.2	169	392	909	2.10K	4.87K	11.3K	26.1K	60.4K	140K	324K	750K
14.0	32.4	75.0	174	402	931	2.15K	4.99K	11.5K	26.7K	61.9K	143K	332K	768K
14.3	33.2	76.8	178	412	953	2.21K	5.11K	11.8K	27.4K	63.4K	147K	340K	787K
14.7	34.0	78.7	182	422	976	2.26K	5.23K	12.1K	28.0K	64.9K	150K	348K	806K
15.0	34.8	80.6	187	432	1.00K	2.32K	5.36K	12.4K	28.7K	66.5K	154K	357K	825K
15.4	35.7	82.5	191	442	1.02K	2.37K	5.49K	12.7K	29.4K	68.1K	158K	365K	845K
15.8	36.5	84.5	196	453	1.05K	2.43K	5.62K	13.0K	30.1K	69.8K	162K	374K	866K
16.2	37.4	86.6	200	464	1.07K	2.49K	5.76K	13.3K	30.9K	71.5K	165K	383K	887K
16.5	38.3	88.7	205	475	1.10K	2.55K	5.90K	13.7K	31.6K	73.2K	169K	392K	909K
16.9	39.2	90.9	210	487	1.13K	2.61K	6.04K	14.0K	32.4K	75.0K	174K	402K	931K
17.4	40.2	93.1	215	499	1.15K	2.67K	6.19K	14.3K	33.2K	76.8K	178K	412K	953K
17.8	41.2	95.3	221	511	1.18K	2.74K	6.34K	14.7K	34.0K	78.7K	182K	422K	976K
18.2	42.2	97.6	226	523	1.21K	2.80K	6.49K	15.0K	34.8K	80.6K	187K	432K	1.00M
18.7	43.2	100	232	536	1.24K	2.87K	6.65K	15.4K	35.7K	82.5K	191K	442K	1.10M
19.1	44.2	102	237	549	1.27K	2.94K	6.81K	15.8K	36.5K	84.5K	196K	453K	1.20M
19.6	45.3	105	243	562	1.30K	3.01K	6.98K	16.2K	37.4K	86.6K	200K	464K	1.30M
20.0	46.4	107	249	576	1.33K	3.09K	7.15K	16.5K	38.3K	88.7K	205K	475K	1.50M
20.5	47.5	110	255	590	1.37K	3.16K	7.32K	16.9K	39.2K	90.9K	210K	487K	1.60M
21.0	48.7	113	261	604	1.40K	3.24K	7.50K	17.4K	40.2K	93.1K	215K	499K	1.80M
21.5	49.9	115	267	619	1.43K	3.32K	7.68K	17.8K	41.2K	95.3K	221K	511K	2.00M
22.1	51.1	118	274	634	1.47K	3.40K	7.87K	18.2K	42.2K	97.6K	226K	523K	2.20M
22.6	52.3	121	280	649	1.50K	3.48K	8.06K	18.7K	43.2K	100K	232K	536K	

Panasonic 0201 Resistor Values

10	27	68	180	470	1.2K	3.3K	8.2K	22K	56K	150K	390K	1.0M
11	30	75	200	510	1.3K	3.6K	9.1K	24K	62K	160K	430K	
12	33	82	220	560	1.5K	3.9K	10K	27K	68K	180K	470K	
13	36	91	240	620	1.6K	4.3K	11K	30K	75K	200K	510K	
15	39	100	270	680	1.8K	4.7K	12K	33K	82K	220K	560K	
16	43	110	300	750	2.0K	5.1K	13K	36K	91K	240K	620K	
18	47	120	330	820	2.2K	5.6K	15K	39K	100K	270K	680K	
20	51	130	360	910	2.4K	6.2K	16K	43K	110K	300K	750K	
22	56	150	390	1.0K	2.7K	6.8K	18K	47K	120K	330K	820K	
24	62	160	430	1.1K	3.0K	7.5K	20K	51K	130K	360K	910K	

‡See chart for value range

Panasonic 2010 Resistor Values

10.0	23.7	56.2	133	316	750	1.78K	4.22K	10.0K	23.7K	56.2K	133K	316K	750K
10.5	24.9	59.0	140	332	787	1.87K	4.42K	10.5K	24.9K	59.0K	140K	332K	787K
11.0	26.1	61.9	147	348	825	1.96K	4.64K	11.0K	26.1K	61.9K	147K	348K	825K
11.5	27.4	64.9	154	365	866	2.05K	4.87K	11.5K	27.4K	64.9K	154K	365K	866K
12.1	28.7	68.1	162	383	909	2.15K	5.11K	12.1K	28.7K	68.1K	162K	383K	909K
12.7	30.1	71.5	169	402	953	2.26K	5.36K	12.7K	30.1K	71.5K	169K	402K	953K
13.3	31.6	75.0	178	422	1.00K	2.37K	5.62K	13.3K	31.6K	75.0K	178K	422K	1M
14.0	33.2	78.7	187	442	1.05K	2.49K	5.90K	14.0K	33.2K	78.7K	187K	442K	
14.7	34.8	82.5	196	464	1.10K	2.61K	6.19K	14.7K	34.8K	82.5K	196K	464K	
15.4	36.5	86.6	205	487	1.15K	2.74K	6.49K	15.4K	36.5K	86.6K	205K	487K	
16.2	38.3	90.9	215	511	1.21K	2.87K	6.81K	16.2K	38.3K	90.9K	215K	511K	
16.9	40.2	95.3	226	536	1.27K	3.01K	7.15K	16.9K	40.2K	95.3K	226K	536K	
17.8	42.2	100	237	562	1.33K	3.16K	7.50K	17.8K	42.2K	100K	237K	562K	
18.7	44.2	105	249	590	1.40K	3.32K	7.87K	18.7K	44.2K	105K	249K	590K	
19.6	46.4	110	261	619	1.47K	3.48K	8.25K	19.6K	46.4K	110K	261K	619K	
20.5	48.7	115	274	649	1.54K	3.65K	8.66K	20.5K	48.7K	115K	274K	649K	
21.5	51.1	121	287	681	1.62K	3.83K	9.09K	21.5K	51.1K	121K	287K	681K	
22.6	53.6	127	301	715	1.69K	4.02K	9.53K	22.6K	53.6K	127K	301K	715K	

NEW! Panasonic 2512 Resistor Values *NEW!*

10	25.5	59	150	360	845	2.2K	5.1K	12.4K	30.9K	71.5K	182K	432K
10.5	26.7	61.9	158	374	887	2.26K	5.23K	13K	32.4K	75K	191K	453K
11	27.4	63.4	162	390	910	2.37K	5.49K	13.7K	33.2K	78.7K	200K	470K
11.5	28.7	66.5	169	402	953	2.43K	5.62K	14.3K	34.8K	82K	210K	487K
12	30	68.1	178	422	1K	2.55K	5.9K	15K	36K	84.5K	220K	510K
12.4	30.9	71.5	182	432	1.05K	2.67K	6.19K	15.8K	37.4K	88.7K	226K	523K
13	32.4	75	191	453	1.1K	2.74K	6.34K	16.2K	39K	91K	237K	549K
13.7	33.2	78.7	200	470	1.15K	2.87K	6.65K	16.9K	40.2K	95.3K	243K	562K
14.3	34.8	82	210	487	1.2K	3K	6.81K	17.8K	42.2K	100K	255K	590K
15	36	84.5	220	510	1.24K	3.09K	7.15K	18.2K	43.2K	105K	267K	619K
15.8	37.4	88.7	226	523	1.3K	3.24K	7.5K	19.1K	45.3K	110K	274K	634K
16.2	39	91	237	549	1.37K	3.32K	7.87K	20K	47K	115K	287K	665K
16.9	40.2	95.3	243	562	1.43K	3.48K	8.2K	21K	48.7K	120K	300K	681K
17.8	42.2	100	255	590	1.5K	3.6K	8.45K	22K	51K	124K	309K	715K
18.2	43.2	105	267	619	1.58K	3.74K	8.87K	22.6K	52.3K	130K	324K	750K
19.1	45.3	110	274	634	1.62K	3.9K	9.1K	23.7K	54.9K	137K	332K	787K
20	47	115	287	665	1.69K	4.02K	9.53K	24.3K	56.2K	143K	348K	820K
21	48.7	120	300	681	1.78K	4.22K	10K	25.5K	59K	150K	360K	845K
22	51	124	309	715	1.82K	4.32K	10.5K	26.7K	61.9K	158K	374K	887K
22.6	52.3	130	324	750	1.91K	4.53K	11K	27.4K	63.4K	162K	390K	910K
23.7	54.9	137	332	787	2K	4.7K	11.5K	28.7K	66.5K	169K	402K	953K
24.3	56.2	143	348	820	2.1K	4.87K	12K	30K	68.1K	178K	422K	1M

Panasonic® 1% Chip Resistors

Digi-Key® Assortment Kits

Digi-Key® 0402 1% Chip Resistor Kits

RSM1L-ND	50 each of Values 10.0Ω ~ 97.6Ω	**$189.00**
RSM2L-ND	50 each of Values 100Ω ~ 976Ω	**$189.00**
RSM3L-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$189.00**
RSM4L-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$189.00**
RSM5L-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$189.00**

Digi-Key® 0603 1% Chip Resistor Kits

RSM1H-ND	50 each of Values 10.0Ω ~ 97.6Ω	**$129.00**
RSM2H-ND	50 each of Values 100Ω ~ 976Ω	**$129.00**
RSM3H-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$129.00**
RSM4H-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$129.00**
RSM5H-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$129.00**

Digi-Key® 1206 1% Chip Resistor Kits

RSM1FA-ND	50 each of Values 10Ω ~ 97.6Ω	**$129.95**
RSM1F-ND	200 each of Values 10Ω ~ 97.6Ω	**$299.00**
RSM2FA-ND	50 each of Values 100Ω ~ 976Ω	**$129.95**
RSM2F-ND	200 each of Values 100Ω ~ 976Ω	**$299.00**
RSM3FA-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$119.95**
RSM3F-ND	200 each of Values 1.00KΩ ~ 9.76KΩ	**$299.00**
RSM4FA-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$129.95**
RSM4F-ND	200 each of Values 10.0KΩ ~ 97.6KΩ	**$299.00**
RSM5FA-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$129.95**
RSM5F-ND	200 each of Values 100KΩ ~ 1.00MΩ	**$299.00**

Digi-Key® 0805 1% Chip Resistor Kits

RSM1CA-ND	50 each of Values 10Ω ~ 97.6Ω	**$119.95**
RSM1C-ND	200 each of Values 10Ω ~ 97.6Ω	**$299.00**
RSM2CA-ND	50 each of Values 100Ω ~ 976Ω	**$119.95**
RSM2C-ND	200 each of Values 100Ω ~ 976Ω	**$299.00**
RSM3CA-ND	50 each of Values 1.00KΩ ~ 9.76KΩ	**$119.95**
RSM3C-ND	200 each of Values 1.00KΩ ~ 9.76KΩ	**$299.00**
RSM4CA-ND	50 each of Values 10.0KΩ ~ 97.6KΩ	**$119.95**
RSM4C-ND	200 each of Values 10.0KΩ ~ 97.6KΩ	**$299.00**
RSM5CA-ND	50 each of Values 100KΩ ~ 1.00MΩ	**$119.95**
RSM5C-ND	200 each of Values 100KΩ ~ 1.00MΩ	**$299.00**

Panasonic 01005, 0201/0402/0603/0805/1206/1210/2010/2512
Surface Mount 5% Thick Film Chip Resistors — 1/32, 1/20, 1/16, 1/10, 1/8, 1/4, 1/2 and 1 Watt

01005 Series — Standard Resistor Values
See below for complete part numbers when ordering.

10	220	4.7K	100K
15	330	6.8K	150K
22	470	10K	220K
33	680	15K	330K
47	1.0K	22K	470K
68	1.5K	33K	680K
100	2.2K	47K	1.0M
150	3.3K	68K	

0201 Series — Standard Resistor Values
See below for complete part numbers when ordering.

10	47	220	1.0K	4.7K	22K	100K	470K
12	56	270	1.2K	5.6K	27K	120K	560K
15	68	330	1.5K	6.8K	33K	150K	680K
18	82	390	1.8K	8.2K	39K	180K	820K
22	100	470	2.2K	10K	47K	220K	1.0M
27	120	560	2.7K	12K	56K	270K	
33	150	680	3.3K	15K	68K	330K	
39	180	820	3.9K	18K	82K	390K	

0402/0603/0805/1206/1210/2010/2512 Series — Standard Resistor Values
See below for complete part numbers when ordering.

* 12M, 15M, 18M and 22M are 10% Tolerance

1.0	2.7	6.8	39	100	270	680	1.8K	4.7K	12K	33K	82K	220K	560K	1.5M	3.9M	10M
1.1	3.0	7.5	43	110	300	750	2.0K	5.1K	13K	36K	91K	240K	620K	1.6M	4.3M	12M*
1.2	3.3	8.2	47	120	330	820	2.2K	5.6K	15K	39K	100K	270K	680K	1.8M	4.7M	15M*
1.3	3.6	20	51	130	360	910	2.4K	6.2K	16K	43K	110K	300K	750K	2.0M	5.1M	18M*
1.5	3.9	22	56	150	390	1.0K	2.7K	6.8K	18K	47K	120K	330K	820K	2.2M	5.6M	22M*
1.6	4.3	24	62	160	430	1.1K	3.0K	7.5K	20K	51K	130K	360K	910K	2.4M	6.2M	
1.8	4.7	27	68	180	470	1.2K	3.3K	8.2K	22K	56K	150K	390K	1.0M	2.7M	6.8M	
2.0	5.1	30	75	200	510	1.3K	3.6K	9.1K	24K	62K	160K	430K	1.1M	3.0M	7.5M	
2.2	5.6	33	82	220	560	1.5K	3.9K	10K	27K	68K	180K	470K	1.2M	3.3M	8.2M	
2.4	6.2	36	91	240	620	1.6K	4.3K	11K	30K	75K	200K	510K	1.3M	3.6M	9.1M	

Digi-Key® 1206, 1/4W, 5% Chip Resistor Assortments

CR1A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$79.95**
CR1-KIT-ND 200 ea. (same values as kit above) .. **$129.00**

CR2A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$79.95**
CR2-KIT-ND 200 ea. (same values as kit above) ... **$129.00**

Digi-Key® 0805, 1/8W, 5% Chip Resistor Assortments

CR3A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$79.95**
CR3-KIT-ND 200 ea. (same values as kit above) ... **$129.00**

CR4A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$79.95**
CR4-KIT-ND 200 ea. (same values as kit above) ... **$129.00**

Digi-Key® 0603, 1/10W, 5% Chip Resistor Assortments

CR5A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, etc. 1.0M (3,050) **$85.95**
CR5-KIT-ND 200 ea. (same values as kit above) . **$129.00**

CR6A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$85.95**
CR6-KIT-ND 200 ea. (same values as kit above) . **$129.00**

Digi-Key® 0402, 1/16W, 5% Chip Resistor Assortments

CR7A-KIT-ND 50 ea. of every other value from 10, 12, 15, 18, 22, etc. 1.0M (3,050) **$89.95**
CR7-KIT-ND 200 ea. (same values as kit above) .. **$169.00**

CR8A-KIT-ND 50 ea. of every other value from 11, 13, 16, 20, etc. 910K (3,000) **$89.95**
CR8-KIT-ND 200 ea. (same values as kit above) .. **$169.00**

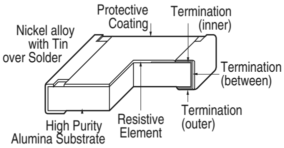

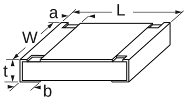

Type	Power Rating	Max. RCWV	Overload Voltage	Dimensions (mm) L	W	t	a	b	Temperature Coefficient	Panasonic Part No.
01005	1/32W	15V	30V	0.40	0.20	0.13	0.10	0.10	<100Ω: ±300ppm/°C 100Ω<: ±200ppm/°C	ERJ-XGEJ
0201	1/20W	15V	30V	0.60	0.30	0.20	0.15	0.15	<10Ω: -100ppm/°C ~ +600ppm/°C 10Ω ~ 1MΩ: ±200ppm/°C 1MΩ >: -400ppm/°C ~ +600ppm/°C	ERJ-1GEJ
0402	1/16W	50V	100V	1.00	0.50	0.35	0.20	0.25		ERJ-2GEJ
0603	1/10W	50V	100V	1.60	0.80	0.45	0.30	0.30		ERJ-3GEY
0805	1/8W	150V	200V	2.00	1.25	0.60	0.40	0.40		ERJ-6GEY
1206	1/4W	200V	400V	3.20	1.60	0.60	0.50	0.50		ERJ-8GEY
1210	1/4W	200V	400V	3.20	2.50	0.60	0.50	0.50		ERJ-14Y
2010	1/2W	200V	400V	5.00	2.50	0.60	0.60	0.60		ERJ-12ZY
2512	1W	250V	500V	6.40	3.20	0.60	0.65	0.60		ERJ-1TY

Description	Value Range	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Package Size	Tape & Reel Pricing 4,000	5,000	10,000	12,000	15,000	20,000	Panasonic Part No.
01005, 1/32 W, 5%	(10-1.0MΩ)	P(Value)ANCT-ND	4.40	15.58	51.31	219.90	P(Value)ANTR-ND	20,000	—	—	—	—	—	115.04/M	ERJ-XGEJxxxY
0201, 1/20 W, 5%	(10-1.0MΩ)	P(Value)AGCT-ND†	1.91	5.14	11.82	40.31	P(Value)AGTR-ND†	15,000	—	—	—	—	26.73/M	—	ERJ-1GEJxxxC
0402, 1/16 W, 5%	(1~10MΩ)	P(Value)JCT-ND†	.84	2.26	5.19	17.69	P(Value)JTR-ND†	10,000	—	—	5.67/M	—	—	—	ERJ-2GEJxxxX
0603, 1/10 W, 5%	(1~22MΩ)*	P(Value)GCT-ND†	.80	2.15	4.93	16.82	P(Value)G TR-ND†	5,000	—	4.50/M	4.05/M	—	—	—	ERJ-3GEYJxxxV
0805, 1/8 W, 5%	(1~22MΩ)*	P(Value)ACT-ND†	.77	2.07	4.76	16.24	P(Value)ATR-ND†	5,000	—	4.80/M	4.32/M	—	—	—	ERJ-6GEYJxxxV
1206, 1/4 W, 5%	(1~22MΩ)*	P(Value)ECT-ND†	.94	2.53	5.82	19.87	P(Value)ETR-ND†	5,000	—	8.55/M	7.70/M	—	—	—	ERJ-8GEYJxxxV
1210, 1/4 W, 5%	(1~10MΩ)	P(Value)VCT-ND	2.70	7.25	16.66	56.84	P(Value)VTR-ND	5,000	—	46.80/M	42.12/M	—	—	—	ERJ-14YJxxxU
2010, 1/2 W, 5%	(1~10MΩ)	P(Value)WCT-ND	4.00	10.77	24.74	84.39	P(Value)WTR-ND	5,000	—	75.30/M	67.77/M	—	—	—	ERJ-12ZYJxxxU
2512, 1 W, 5%	(1~2.2MΩ)	PT(Value)XCT-ND	3.96	14.03	46.20	191.40	PT(Value)XTR-ND	4,000	148.80/M	—	—	124.00/M	—	—	ERJ-1TYJxxxU

† 0.0Ω (zerohm) value also available. * 12M, 15M, 18M and 22M are 10% tolerance.

Panasonic 0402/0603/0805/1206/1210/2010/2512, 5% and 0402/0603/0805/1206, 1%
Surface Mount Ultra Low Ohm Thick Film Chip Resistors — 1/10, 1/8, 1/4, 1/2 and 1 Watt

0402, 5% Series Standard Resistor Values
See below for complete part numbers when ordering.

.047	.056	.068	.082
.051	.062	.075	.091

0402, 1% Series Standard Resistor Values
See below for complete part numbers when ordering.

.10	.13	.18	.24	.33	.43	.56	.75
.11	.15	.20	.27	.36	.47	.62	.82
.12	.16	.22	.30	.39	.51	.68	.91

0603/0805/1206/1210/2010/2512, 5% Series
0603/0805/1206, 1% Series
Standard Resistor Values
See below for complete part numbers when ordering.

.10	.22	.47	1.0	2.2	4.7	9.1
.12	.27	.56	1.2	2.7	5.6	
.15	.33	.68	1.5	3.3	6.8	
.18	.39	.82	1.8	3.9	8.2	

2512, 1% Series Standard Resistor Values
See below for complete part numbers when ordering.

.22	.36	.56	.91	1.5	2.4	3.9	6.2
.24	.39	.62	1.0	1.6	2.7	4.3	6.8
.27	.43	.68	1.1	1.8	3.0	4.7	7.5
.30	.47	.75	1.2	2.0	3.3	5.1	8.2
.33	.51	.82	1.3	2.2	3.6	5.6	9.1

Rated Continuous Working Voltage (RCWV):
The rated voltage at each resistance should be calculated from the following equation:
RCWV=$\sqrt{\text{P x R}}$
RCWV(V):P(W):R(Ω)
Maximum Overload Voltage = RCWV x 2.5

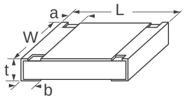

Type	Type (Power Rating)	Dimensions (mm) L	W	t	a	b	Temperature Coefficient (ppm/°C)	Panasonic Part No.
0402	1/8 Watt (5%)	1.00	0.50	0.35	0.24	0.24	±300ppm/°C	ERJ-2BWJ
0402	1/8 Watt (1%)	1.00	0.50	0.20	0.27	0.35	.1 ~ .20Ω ±300ppm/°C/.22 ~ 1.0 Ω + ±250ppm/C	ERJ-2BS/Q
0603	1/10 Watt	1.6	0.8	0.45	0.30	0.30	.1 ~ .82Ω ±300ppm/°C/1.0 ~ 8.2 Ω + ±200ppm/C	ERJ-3RS/Q
0805	1/8 Watt	2.00	1.25	0.60	0.40	0.40	.1 ~ .91Ω ±250ppm/°C/1.0 ~ 9.1 Ω + ±200ppm/C	ERJ-6RS/Q
1206	1/4 Watt	3.20	1.60	0.60	0.50	0.50	.1 ~ .91Ω ±250ppm/°C/1.0 ~ 9.1 Ω + ±200ppm/C	ERJ-8RS/Q
1210	1/4 Watt	3.20	2.50	0.60	0.50	0.50	.1 ~ .91Ω ±200ppm/°C/1.0 ~ 9.1 Ω + ±100ppm/C	ERJ-14RS/Q
2010	1/2 Watt	5.00	2.50	0.60	0.60	0.60	.22 ~ 1.0Ω ±200ppm/°C	ERJ-12ZQJ
2512	1 Watt	6.40	3.20	0.60	0.65	0.60	.1 ~ .91Ω ±200ppm/°C/1.0 ~ 9.1 Ω + ±100ppm/C	ERJ-1TRS/Q

Description	Value Range	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Package Size	Tape & Reel Pricing 4,000	5,000	10,000	12,000	Panasonic Part No.
0402, 1/8 W, 5%	(.047 ~ .091Ω)	P(Value)AMCT-ND	5.18	18.36	60.48	250.56	P(Value)AMTR-ND	10,000	—	—	164.80/M	—	ERJ-2BWJRxxX
0402, 1/8 W, 1%	(.10 ~ .20Ω)	P(Value)AKCT-ND	8.84	23.80	54.67	186.53	P(Value)AKTR-ND	10,000	—	—	162.87/M	—	ERJ-2BSFRxxX
0402, 1/8 W, 1%	(.22 ~ .91Ω)	P(Value)AKCT-ND	6.78	18.23	41.89	142.91	P(Value)AKTR-ND	10,000	—	—	122.26/M	—	ERJ-2BQFRxxX
0603, 1/10 W, 5%	(.10 ~ .18Ω)	P(Value)AHCT-ND	3.26	8.77	20.15	68.76	P(Value)AHTR-ND	5,000	—	59.13/M	53.22/M	—	ERJ-3RSJxxxV
0603, 1/10 W, 5%	(.22 ~ 8.2Ω)	P(Value)AHCT-ND	1.91	5.13	11.78	40.19	P(Value)AHTR-ND	5,000	—	29.58/M	26.63/M	—	ERJ-3RQJxxxV
0603, 1/10 W, 1%	(.10 ~ .18Ω)	P(Value)AJCT-ND	5.36	14.43	33.15	113.10	P(Value)AJTR-ND	5,000	—	105.00/M	94.50/M	—	ERJ-3RSFxxxV
0603, 1/10 W, 1%	(.22 ~ 8.2Ω)	P(Value)AJCT-ND	3.03	8.14	18.70	63.80	P(Value)AJTR-ND	5,000	—	54.00/M	48.60/M	—	ERJ-3RQFxxxV
0805, 1/8 W, 5%	(.10 ~ .18Ω)	P(Value)BCT-ND	14.03	37.74	86.70	295.80	P(Value)BTR-ND	5,000	—	294.00/M	264.60/M	—	ERJ-6RSJxxxV
0805, 1/8 W, 5%	(.22 ~ 9.1Ω)	P(Value)BCT-ND	6.33	17.02	39.10	133.40	P(Value)BTR-ND	5,000	—	103.50/M	93.15/M	—	ERJ-6RQJxxxV
0805, 1/8 W, 1%	(.22 ~ 9.1Ω)	P(Value)DCT-ND	2.10	7.44	24.50	101.50	P(Value)DTR-ND	5,000	—	74.40/M	62.00/M	—	ERJ-6RQFxxxV
1206, 1/4 W, 5%	(.10 ~ .18Ω)	P(Value)PCT-ND	12.51	33.67	77.35	263.90	P(Value)PTR-ND	5,000	—	261.00/M	234.90/M	—	ERJ-8RSJxxxV
1206, 1/4 W, 5%	(.22 ~ 9.1Ω)	P(Value)PCT-ND	6.05	16.28	37.40	127.60	P(Value)PTR-ND	5,000	—	120.00/M	108.00/M	—	ERJ-8RQJxxxV
1206, 1/4 W, 1%	(.22 ~ 9.1Ω)	P(Value)RCT-ND	2.70	9.56	31.50	130.50	P(Value)RTR-ND	5,000	—	98.40/M	82.00/M	—	ERJ-8RQFxxxV
1210, 1/4 W, 5%	(.10 ~ .18Ω)	P(Value)SCT-ND	5.52	19.55	64.40	266.80	P(Value)STR-ND	5,000	—	211.20/M	176.00/M	—	ERJ-14RSJxxxU
1210, 1/4 W, 5%	(.22 ~ 9.1Ω)	P(Value)SCT-ND	3.42	12.11	39.90	165.30	P(Value)STR-ND	5,000	—	127.20/M	106.00/M	—	ERJ-14RQJxxxU
2010, 1/2 W, 5%	(.22 ~ 1.0Ω)	P(Value)AFCT-ND	5.61	19.87	65.45	271.15	P(Value)AFTR-ND	5,000	—	214.80/M	179.00/M	—	ERJ-12ZQJxxxU
2512, 1 W, 5%	(.10 ~ .18Ω)	PT(Value)UCT-ND	10.68	43.39	154.86	694.20	PT(Value)UTR-ND	4,000	591.75/M	—	—	499.70/M	ERJ-1TRSJxxxU
2512, 1 W, 5%	(.22 ~ 9.1Ω)	PT(Value)UCT-ND	8.99	31.84	104.90	434.57	PT(Value)UTR-ND	4,000	350.04/M	—	—	291.70/M	ERJ-1TRQJxxxU
2512, 1 W, 1%	(.22 ~ 9.1Ω)	PT(Value)YCT-ND	6.76	27.46	98.02	439.40	PT(Value)YTR-ND	4,000	371.25/M	—	—	313.50/M	ERJ-1TRQFxxxU

Panasonic® SMD Thick Film Chip Resistors / Low Resistance Type

0603, 0805, 1206, 1210, 1812, 2010, 2512 — For Current Sensing Applications

Features: • Operating Temperature: ERJ-L: -55°C ~ 125°C, ERJ-M: -55 °C ~ 170°C (derating required above 70°C)
• Resistance Range: • 1.0 to100mΩ

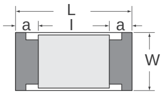

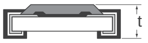

Package	Dimensions (mm) L	W	a	t	l
0603	1.60	0.80	0.30	0.45	1.00
0805	2.00	1.25	0.40	0.60	1.20
1206	3.20	1.60	0.50	0.60	2.20
1210	3.20	2.50	0.50	0.60	2.20
1812	4.50	3.20	0.50	0.60	3.50
2010	5.00	2.50	0.60	0.60	3.80
2512 (S Type)	6.40	3.20	1.00	0.80	4.40
2512 (T Type)	6.40	3.20	2.10	0.80	2.20
2512 (L Type)	6.40	3.20	0.65	1.10	5.10

See below for complete part numbers when ordering.

Standard Resistor Values (mΩ) for 0603, 0805, 1206

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)
47 (47M)	50 (50M)	75† (75M)	100 (10C)

† Panasonic part number is ERJ-LxxUJxxxV

Standard Resistor Values (mΩ) for 1210, 1812, 2010

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)
20 (20M)	25† (25M)	39 (39M)	50 (50M)	100 (10C)
22 (22M)	33 (33M)	47 (47M)	75† (75M)	

† Panasonic part number is ERJ-LxxUFxxxU

Standard Resistor Values (mΩ) for 2512

Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)	Value (Mfg. Code)
1.0 (1M0)	3.0 (3M0)	8.0 (8M0)	15 (15M)	47* (47M)
1.5 (1M5)	4.0 (4M0)	10 (10M)	16 (16M)	50 (50M)
2.0 (2M0)	5.0 (5M0)	12 (12M)	20 (20M)	100 (10C)

* Not available in 1% tolerance

Description	Type	Value Range (mΩ)	Temperature Coefficient	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape and Reel Size	Pricing	Panasonic Part No.
0603, 1/10 W, 5%	L	47 ~ 100	±200ppm	P(Value)NJCT-ND	6.13	18.28	43.00	P(Value)NJTR-ND	5,000	136.50/M	ERJ-L03KJxxxV
0805, 1/8 W, 5%	L	47 ~ 100	±100ppm	P(Value)NLCT-ND	6.70	19.98	47.00	P(Value)NLTR-ND	5,000	150.50/M	ERJ-L06KJxxxV
1206, 1/4 W, 5%	L	47 ~ 100	±100ppm	P(Value)NPCT-ND	7.70	22.95	54.00	P(Value)NPTR-ND	5,000	175.00/M	ERJ-L08KJxxxV
1210, 1/4 W, 1%	L	20 ~ 39 47 ~ 100	±300ppm ±100ppm	P(Value)NACT-ND	5.34	18.91	62.30	P(Value)NATR-ND	5,000	204.00/M	ERJ-L14KFxxxU
1812, 1/2 W, 1%	L	20 ~ 39 47 ~ 100	±300ppm ±100ppm	P(Value)NBCT-ND	6.96	28.28	100.92	P(Value)NBTR-ND	5,000	382.50/M	ERJ-L12KFxxxU
2010, 1/2 W, 1%	L	47 ~ 100	±100ppm	P(Value)NCCT-ND	6.96	28.28	100.92	P(Value)NCTR-ND	5,000	382.50/M	ERJ-L1DKFxxxU
2512, 1 W, 5%	T	1.0 ~ 1.5 2.0	350 ±100ppm 100 ±50ppm	P(Value)TCT-ND	7.76	31.53	112.52	P(Value)TTR-ND	3,000	427.50/M	ERJ-M1WTJxxxU
	S	3.0 ~ 4.0 5.0 ~ 20	±350ppm ±100ppm	P(Value)TCT-ND	7.76	31.53	112.52	P(Value)TTR-ND	3,000	427.50/M	ERJ-M1WSJxxxU
	L	47 ~ 100	±100ppm	P(Value)TCT-ND	7.88	32.01	114.26	P(Value)TTR-ND	3,000	434.25/M	ERJ-L1WKJxxxU
2512, 1 W, 1%	T	1.0 ~ 1.5 2.0 ~ 4.0	350 ±100ppm 100 ±50ppm	P(Value)NDCT-ND	9.58	38.92	138.91	P(Value)NDTR-ND	3,000	529.88/M	ERJ-M1WTFxxxU
	S	3.0 ~ 4.0 5.0 ~ 20	±350ppm ±100ppm	P(Value)MCT-ND	8.16	33.15	118.32	P(Value)MTR-ND	3,000	450.00/M	ERJ-M1WSFxxxU
	L	50 ~ 100	±100ppm	P(Value)MCT-ND	9.40	38.19	136.30	P(Value)MTR-ND	3,000	519.75/M	ERJ-L1WKFxxxU

Panasonic® Anti-Surge Thick Film Chip Resistors

Features:

- Operating Temperature: -55°C ~ 155°C
- Improved Anti-Surge characteristics compared to metal film resistors
- Metal glaze thick film resistive element and three layers of electrodes result in high reliability
- Suitable for both reflow soldering and flow soldering
- Thick film resistor with excellent Anti-Pulse characteristic and high rated power

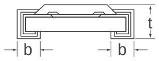

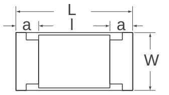

Type	Dimensions (mm) L	W	a	b	t	l
0805	2.00	1.25	0.25	0.40	0.60	1.50
1206	3.20	1.60	0.40	0.50	0.60	2.24
1210	3.20	2.50	0.35	0.50	0.60	2.50

Power Derating Curve

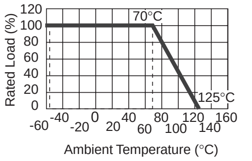

Type	Power Rating at 70°C (W)	Limiting Element Voltage (Maximum RCWV)[1] (V)	Maximum Overload Voltage[2] (V)	Resistance Tolerance (%)	Resistance Range (Ω) Minimum	Maximum	Temperature Coefficient x10^{-6} °C (ppm/°C)	Standard Resistance Values
ERJP06	0.125	150	200	±5	10 33	30 1.0M	±300 ±200	E24 (3 digits)
ERJP08	0.25	200	400	±5	10	1.0M	±200	E24 (3 digits)
ERJP14	0.5	200	400	±5	1.0	1.0M	±200	E24 (3 digits)

(1) Rated Continuous Working Voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Values}}$, or Limiting Element Voltage (maximum RCWV) listed above, whichever is less.
(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or maximum Overload Voltage listed above whichever is less.

Standard Resistor Values

See below for complete part numbers when ordering.

1.0
1.1
1.2
1.3
1.5
1.6
1.8
2.0
2.2
2.4
2.7
3.0
3.3
3.6
3.9
4.3
4.7
5.1
5.6
6.2
6.8
7.5
8.2
9.1
10
11
12
13
15
16
18
20
22
24
27
30
33
36
39
43
47
51
56
62
68
75
82
91
100
110
120
130
150
160
180
200
220
240
270
300
330
360
390
430
470
510
560
620
680
750
820
910
1.0K
1.1K
1.2K
1.3K
1.5K
1.6K
1.8K
2.0K
2.2K
2.4K
2.7K
3.0K
3.3K
3.6K
3.9K
4.3K
4.7K
5.1K
5.6K
6.2K
6.8K
7.5K
8.2K
9.1K
10K
11K
12K
13K
15K
16K
18K
20K
22K
24K
27K
30K
33K
36K
39K
43K
47K
51K
56K
62K
68K
75K
82K
91K
100K
110K
120K
130K
150K
160K
180K
200K
220K
240K
270K
300K
330K
360K
390K
430K
470K
510K
560K
620K
680K
750K
820K
910K
1.0M

Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.	Tape and Reel Pricing 5,000	10,000	25,000	50,000	Panasonic Part No.
0805, 1/8 W, 5%	10 ~ 1.0M	P(Value)ADCT-ND	1.65	4.93	11.60	34.80	P(Value)ADTR-ND	26.60/M	22.80/M	20.90/M	19.00/M	ERJ-P06JxxxV
1206, 1/4 W, 5%	10 ~ 1.0M	P(Value)ALCT-ND	2.01	5.99	14.10	42.30	P(Value)ALTR-ND	35.35/M	30.30/M	27.78/M	25.25/M	ERJ-P08JxxxV
1210, 1/2 W, 5%	1.0 ~ 1.0M	P(Value)ASCT-ND	3.56	10.63	25.00	75.00	P(Value)ASTR-ND	73.50/M	63.00/M	57.75/M	42.00/M	ERJ-P14JxxxU

Panasonic Metal Film Thermosensitive Chip Resistors

Features:

- Recommended for temperature correction circuits
- Temperature coefficient value 1000 x 10^{-6}/°C (ppm/°C) to 4700 x 10^{-6}/°C (ppm/°C)
- Quick response to temperature change
- Excellent linear resistance value change in wide temperature range (-40°C ~ 125°C)
- High reliability, high density placing
- Suitable for both reflow soldering and flow soldering

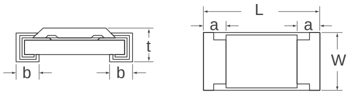

Type	Dimensions (mm) L	W	a	b	t
0402	1.00	0.50	0.15	0.25	0.35
0603	1.60	0.80	0.30	0.30	0.45
0805	2.00	1.25	0.40	0.40	0.50

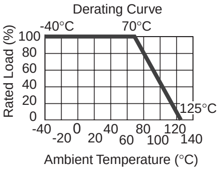

Standard Resistor Values (Ω)

See below for complete part numbers when ordering.

5.6	27	120	560	2.7K
6.8	33	150	680	3.3K
8.2	39	180	820	3.9K
10	47	220	1.0K	4.7K
12	56	270	1.2K	5.6K
15	68	330	1.5K	6.8K
18	82	390	1.8K	8.2K
22	100	470	2.2K	10K

Description	TCR (ppm/°C)	Value Range (Ω)	TCR Tolerance	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Tape and Reel Pricing 5,000	10,000	25,000	30,000	Panasonic Part No.
0402, 1/32 W, 5%	+2700	47 ~ 1.0K	—	P(Value)CLCT-ND	4.12	14.60	48.09	P(Value)CLTR-ND	—	97.05/M	—	90.58/M	ERA-W27Jxxxx
	+3300	22 ~ 390	—	P(Value)CMCT-ND	4.12	14.60	48.09	P(Value)CMTR-ND	—	97.05/M	—	90.58/M	ERA-W33Jxxxx
0603, 1/16 W, 5%	+1500	10 ~ 10K	±200 x ppm/°C	P(Value)CFCT-ND	5.52	19.55	64.40	P(Value)CFTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V15JxxxV
	+2700	47 ~ 3.3K	±10%	P(Value)CGCT-ND	5.52	19.55	64.40	P(Value)CGTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V27JxxxV
	+3300	22 ~ 1.2K	±10%	P(Value)CHCT-ND	5.52	19.55	64.40	P(Value)CHTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V33JxxxV
	+3900	5.6 ~ 390	±10%	P(Value)CJCT-ND	5.52	19.55	64.40	P(Value)CJTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-V39JxxxV
0805, 1/10 W, 5%	+1500	10 ~ 10K	±200 x ppm/°C	P(Value)CBCT-ND	5.52	19.55	64.40	P(Value)CBTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S15JxxxV
	+2700	47 ~ 4.7K	±10%	P(Value)CCCT-ND	5.52	19.55	64.40	P(Value)CCTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S27JxxxV
	+3300	22 ~ 1.8K	±10%	P(Value)CDCT-ND	5.52	19.55	64.40	P(Value)CDTR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S33JxxxV
	+3900	5.6 ~ 470	±10%	P(Value)CECT-ND	5.52	19.55	64.40	P(Value)CETR-ND	146.08/M	132.00/M	123.20/M	—	ERA-S39JxxxV

Panasonic 1 & 2 Watt — 5% SMD Metal Film Fixed Resistors

Features:

- Non-flammable nature
- High reliability
- Approved under the ISO 9001 system

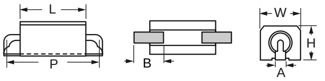

Type	Dimensions (mm) P	L	W	H	A	B
1 Watt	12.5	9.0	5.6	5.0	1.5	3.0
2 Watt	15.0	12.0	6.4	5.8	1.5	4.0

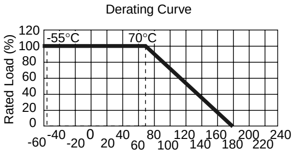

Standard Resistor Values (Ω)

See below for complete part numbers when ordering.

.022	.082	.33	1.2	4.7
.027	.10	.39	1.5	5.6
.033	.12	.47	1.8	6.8
.039	.15	.56	2.2	8.2
.047	.18	.68	2.7	
.056	.22	.82	3.3	
.068	.27	1.0	3.9	

Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	Digi-Key Part No.	Pkg. Size	Tape and Reel Pricing 1,000	2,000	5,000	6,000	Panasonic Part No.
1 Watt, 5%	.022 ~ .082	PRX1W(Value)CT-ND	55.99	150.66	346.12	PRX1W(Value)TR-ND	2,000	—	806.40/M	—	645.12/M	ERX-1HQJxxMH
	.10 ~ .18	PRX1W(Value)CT-ND	38.13	102.59	235.69	PRX1W(Value)TR-ND	2,000	—	546.56/M	—	437.25/M	ERX-1HZJxxxH
	.22 ~ 8.2	PRX1W(Value)CT-ND	33.66	90.58	208.08	PRX1W(Value)TR-ND	2,000	—	481.60/M	—	385.28/M	ERX-1HJxxxH
2 Watt, 5%	.022 ~ .082	PRX2W(Value)CT-ND	59.84	161.02	369.92	PRX2W(Value)TR-ND	1,000	862.40	—	689.92/M	—	ERX-2HQJxxMH
	.10 ~ .18	PRX2W(Value)CT-ND	43.67	117.51	269.96	PRX2W(Value)TR-ND	1,000	627.20	—	501.76/M	—	ERX-2HZJxxxH
	.22 ~ 8.2	PRX2W(Value)CT-ND	38.13	102.59	235.69	PRX2W(Value)TR-ND	1,000	546.56	—	437.25/M	—	ERX-2HJxxxH

Panasonic ERA 0603/0805 .1% Metal Film Chip Resistors

Surface Mount — Available In 1/16 and 1/10 Watt

Features:

- High reliability
- Low TCR and current noise
- Excellent non-linearity

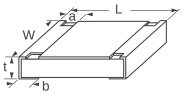

Type	Type (Power Rating)	Max. RCWV	Max. Overload Voltage	Dimensions (mm) L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
0603	1/16 Watt	75V	150V	1.60	0.80	0.30	0.30	0.45	±25ppm/°C	ERA-3YE
0805	1/10 Watt	100V	200V	2.00	1.25	0.40	0.40	0.50	±25ppm/°C	ERA-6YE

Standard Resistor Values

See below for complete part numbers when ordering.

100	150	220	330	470	680	1.0K	1.5K	2.2K	3.3K	4.7K	6.8K	10K	15K	22K	33K	47K	68K	100K
110	160	240	360	510	750	1.1K	1.6K	2.4K	3.6K	5.1K	7.5K	11K	16K	24K	36K	51K	75K	
120	180	270	390	560	820	1.2K	1.8K	2.7K	3.9K	5.6K	8.2K	12K	18K	27K	39K	56K	82K	
130	200	300	430	620	910	1.3K	2.0K	3.0K	4.3K	6.2K	9.1K	13K	20K	30K	43K	62K	91K	

Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape and Reel Pricing 5,000	10,000	25,000	50,000	Panasonic Part No.
0603, 1/16 W, .1%	100 ~ 33K	P(Value)YCT-ND	5.94	21.04	69.30	287.10	P(Value)YTR-ND	5,000	157.70/M	142.50/M	133.00/M	128.25/M	ERA-3YEBxxxV
0805, 1/10 W, .1%	100 ~ 100K	P(Value)ZCT-ND	6.24	22.10	72.80	301.60	P(Value)ZTR-ND	5,000	166.00/M	150.00/M	140.00/M	135.00/M	ERA-6YEBxxxV

Panasonic ERA 1210 .5% Metal Film Chip Resistors 1/4 Watt

Features:

- High reliability
- Low TCR and current noise
- Excellent non-linearity

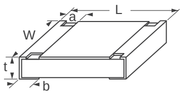

Type	Type (Power Rating)	Max. RCWV	Max. Overload Voltage	Dimensions (mm) L	W	a	b	t	Temperature Coefficient	Panasonic Part No.
1210	1/4 Watt	150V	300V	3.20	2.50	0.50	0.50	0.60	±50ppm/°C	ERA-14H

Standard Resistor Values (Ω)

See below for complete part numbers when ordering.

10	16	27	43	68
11	18	30	47	75
12	20	33	51	82
13	22	36	56	91
15	24	39	62	

Description	Value Range (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape and Reel Pricing 5,000	10,000	25,000	50,000	Panasonic Part No.
1210, 1/4 W, .5%	10 ~ 91	P(Value)APCT-ND	6.48	22.95	75.60	313.20	P(Value)APTR-ND	5,000	172.64/M	156.00/M	145.60/M	140.40/M	ERA-14HDxxxU

Panasonic 5 % Miniature Carbon Film Resistors

Features:
- High reliability using carbon film
- 52mm Axial taping style for automatic inserting machine
- 4 color code marking
- Uses UL 94 V-0 approved coating for flame retardant type
- Approved under the ISO 9001 system
- Reference Standard: IEC 60115-2, JIS C 5201-2
- Miniaturized version

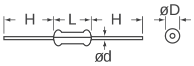

Type	Dimensions (mm) L	D	d	H	Mass (mg)
1/4W, 5%	3.20	1.70	0.45	20 minimum	107
1/2W, 5%	6.35	2.30	0.60	20 minimum	228

Type	Power Rating at 70°C (W)	Limiting Element Volt. (Maximum RCWV)^1 (V)	Maximum Overload Volt.^{2} (V)	Maximum Intermittent Overload Volt.^{3} (V)	Dielectric Withstanding Voltage (VAC)	Standard Resistance Value	Resistance Tolerance (%)	Resistance Range (Ω) minimum	maximum
ERDS2T	0.25	250	500	750	300	E24	±5 (J)	0	2.2M
ERDS1T	0.5	300	600	750	500	E24	±5 (J)	1	3.3M

(1) Rated Voltage =-$\sqrt{\text{Power Rating x Resistance Value}}$ or Limiting Element Voltage (maximum RCWV), whichever is less. (RCWV: Rated Continuous working Voltage).
(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or maximum Overload Voltage listed above whichever is less.
(3) Intermittent Overload Test Voltage (IOTV) shall be determined from IOTV = 4 x Power Rating (IOTV = 3 x Power Rating for ERDS2 type) or maximum Intermittent Overload Voltage listed above whichever is less.

Power Derating Curve

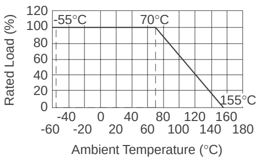

Standard Resistor Values

See below for complete part numbers when ordering.

0.0‡	2.0	4.3	9.1	20	43	91	200	430	910	2.0K	4.3K	9.1K	20K	43K	91K	200K	430K	910K	2.0M
1.0	2.2	4.7	10	22	47	100	220	470	1.0K	2.2K	4.7K	10K	22K	47K	100K	220K	470K	1.0M	2.2M
1.1	2.4	5.1	11	24	51	110	240	510	1.1K	2.4K	5.1K	11K	24K	51K	110K	240K	510K	1.1M	2.4M*
1.2	2.7	5.6	12	27	56	120	270	560	1.2K	2.7K	5.6K	12K	27K	56K	120K	270K	560K	1.2M	2.7M*
1.3	3.0	6.2	13	30	62	130	300	620	1.3K	3.0K	6.2K	13K	30K	62K	130K	300K	620K	1.3M	3.0M*
1.5	3.3	6.8	15	33	68	150	330	680	1.5K	3.3K	6.8K	15K	33K	68K	150K	330K	680K	1.5M	3.3M*
1.6	3.6	7.5	16	36	75	160	360	750	1.6K	3.6K	7.5K	16K	36K	75K	160K	360K	750K	1.6M	
1.8	3.9	8.2	18	39	82	180	390	820	1.8K	3.9K	8.2K	18K	39K	82K	180K	390K	820K	1.8M	

* Only available in 1/2 Watt ‡ Not available in 1/2 Watt

Description	Value Range (Ω)	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Pkg. Size	Tape & Box Pricing 2,000	5,000	6,000	10,000	Panasonic Part No.
ERDS2T 1/4W, 5%	0.0-2.2M	P(Value)BACT-ND	.67	2.14	4.88	15.86	P(Value)BATB-ND	5,000	—	6.83/M	—	6.30/M	ERD-S2TJxxxV
ERDS1T 1/2W, 5%	1.0-3.3M	P(Value)BBCT-ND	.95	3.03	6.92	22.49	P(Value)BBTB-ND	2,000	15.12/M	—	13.95/M	12.79/M	ERD-S1TJxxxV

Panasonic 1 % Miniature Metal Film Resistors

Features:
- Low T.C.R., low noise, high reliability
- Taping style for automatic inserting machine
- 5 color code marking
- Approved under the ISO 9001 system
- Reference Standard: IEC 60115-2, JIS C 5201-2

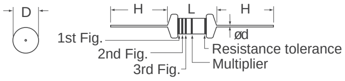

Type	Power Rating at 70°C (W)	Limiting Element Voltge (Maximum RCWV)^1 (V)	Maxmum Overload Voltage^2 (V)	Dielectric Withstanding Voltage (V)	T.C.R. x10^{-6}/°C (ppm/°C)	Resistance Tolerance (%)	Resistance Range (Ω) minimum	maximum	Resistance Value
EROS2P	0.25	250	500	300	±50	F(±1)	10	1M	E24

Type	Dimensions (mm) L	D	d	H	Mass (mg)
1/4W, 1%	3.20	1.70	0.45	30	107

(1) Rated Voltage =-$\sqrt{\text{Power Rating x Resistance Value}}$ or Limiting Element Voltage (maximum RCWV), whichever is less. (RCWV: Rated Continuous working Voltage).
(2) Overload (Short-time Overload) Test Voltage (SOTV) shall be determined from SOTV = 2.5 x Power Rating or maximum Overload Voltage listed above whichever is less.

Power Derating Curve

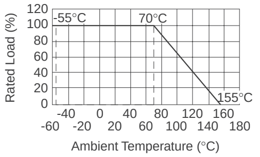

Standard Resistor Values

See below for complete part numbers when ordering.

10.0	20.0	39.0	75.0	150	300	560	1.10K	2.20K	4.30K	8.20K	16.0K	33.0K	62.0K	120K	240K	470K	910K
11.0	22.0	43.0	82.0	160	330	620	1.20K	2.40K	4.70K	9.10K	18.0K	36.0K	68.0K	130K	270K	510K	1.00M
12.0	24.0	47.0	91.0	180	360	680	1.30K	2.70K	5.10K	10.0K	20.0K	39.0K	75.0K	150K	300K	560K	
13.0	27.0	51.0	100	200	390	750	1.50K	3.00K	5.60K	11.0K	22.0K	43.0K	82.0K	160K	330K	620K	
15.0	30.0	56.0	110	220	430	820	1.60K	3.30K	6.20K	12.0K	24.0K	47.0K	91.0K	180K	360K	680K	
16.0	33.0	62.0	120	240	470	910	1.80K	3.60K	6.80K	13.0K	27.0K	51.0K	100K	200K	390K	750K	
18.0	36.0	68.0	130	270	510	1.00K	2.00K	3.90K	7.50K	15.0K	30.0K	56.0K	110K	220K	430K	820K	

Description	Value Range (Ω)	Digi-Key Part No.	Pricing 10	50	200	1,000	Digi-Key Part No.	Package Size	Tape & Box Pricing 5,000	10,000	50,000	100,000	Panasonic Part No.
EROS2P 1/4W, 1%	10.0-1.0M	P(Value)CACT-ND	1.71	4.95	13.05	33.75	P(Value)CATB-ND	5,000	18.75/M	16.00/M	13.00/M	11.00/M	ERO-S2PHFxxxV

Panasonic 5 % Metal Oxide Film Resistors

Now Available In Tape and Reel

Matsushita fixed metal oxide film resistors feature small sized dimensions and have higher power rating at the same size as the conventional type.

Features:

Flame retardancy of the exclusively formulated inorganic insulative material exhibits an equivalent performance requirements of UL-94 (VE-O) and when operated at a potential less than 16 times RCWV, Matsushita metal (oxide) film resistors never flame nor arc.

The coating and markings resist normal washing of solvents, such as Freon (TE, TMC, TF), trichloroethane.

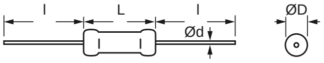

Type	Maximum Working Voltage	Dimensions (mm) L	l	D	d
1W	350	9.0	30.0	2.8	0.65
2W	350	12.0	30.0	4.0	0.80
3W	350	15.0	38.0	5.5	0.80

Characteristics:

Temperature Coefficient	R. Wattage of 1, 2, 3 ±350ppm/°C
Voltage Coefficient	25ppm/V Maximum
Insulation Resist.	10,000 MΩ Minimum
Temperature Cycling	±(1% + 0.05Ω) Maximum
Short-time Overload	±(2% + 0.05Ω) Maximum
Humidity (Steady State)	±(2% + 0.05Ω) Maximum
Load Life in Humidity	±(5% + 0.05Ω) Maximum
Load Life	±(5% + 0.05Ω) Maximum
Resistance to Soldering Heat	±(1% + 0.05Ω) Maximum
Vibration Low Frequency	±(1% + 0.05Ω) Maximum
Thermal Shock	±(2% + 0.05Ω) Maximum
Noise	1.0μV/V Maximum

Standard Resistor Values

See below for complete part numbers when ordering.

0.47	0.82	1.5	2.7	4.7	8.2	15	27	47	82	150	270	470	820	1.5K	2.7K	4.7K	8.2K	15K	27K	47K	82K
0.51	0.91	1.6	3.0	5.1	9.1	16	30	51	91	160	300	510	910	1.6K	3.0K	5.1K	9.1K	16K	30K	51K	91K
0.56	1.0	1.8	3.3	5.6	10	18	33	56	100	180	330	560	1.0K	1.8K	3.3K	5.6K	10K	18K	33K	56K	100K
0.62	1.1	2.0	3.6	6.2	11	20	36	62	110	200	360	620	1.1K	2.0K	3.6K	6.2K	11K	20K	36K	62K	
0.68	1.2	2.2	3.9	6.8	12	22	39	68	120	220	390	680	1.2K	2.2K	3.9K	6.8K	12K	22K	39K	68K	
0.75	1.3	2.4	4.3	7.5	13	24	43	75	130	240	430	750	1.3K	2.4K	4.3K	7.5K	13K	24K	43K	75K	

Description	Digi-Key Part No.	Pricing 1	5	100	1M	5M	10M
1 Watt, **5% Metal Oxide Film Resistors** Bulk Package (0.47-68KΩ)	P(Value)W-1BK-ND (i.e., P20W-1BK-ND)	.23	.86	9.78	67.42	60.04/M	53.94/M
1 Watt, **5% Metal Oxide Film Resistors** Tape and Reel (0.47-68KΩ)	P(Value)W-1TR-ND (i.e., P1.0KW-1TR-ND)	—	—	—	—	63.89/M	57.41/M
2 Watt, **5% Metal Oxide Film Resistors** Bulk Package (0.47-100KΩ)	P(Value)W-2BK-ND (i.e., P20W-2BK-ND)	.28	1.03	13.26	81.18	72.24/M	64.80/M
2 Watt, **5% Metal Oxide Film Resistors** Tape and Reel (0.47-100KΩ)	P(Value)W-2TR-ND (i.e., P1.0KW-2TR-ND)		277.88/3M	494.84/6M	889.22/12M	1729.13/27M	
3 Watt, **5% Metal Oxide Film Resistors** Bulk Package (0.47-100KΩ)	P(Value)W-3BK-ND (i.e., P20W-3BK-ND)	.51	2.38	30.54	183.25	176.47/M	169.68/M
3 Watt, **5% Metal Oxide Film Resistors** Tape and Reel (0.47-100KΩ)	P(Value)W-3TR-ND (i.e., P1.0KW-3TR-ND)		309.68/1,500	1102.94/6M	1734.20/10,500	3639.91/25,500	

YAGEO 5 and 10 Watt Wirewound and Metal Oxide Film Rectangular Resistors 5%

Axial Lead Type

- **Operating Temperature Range:** -55° ~ 250°C

• Exceptionally small and sturdy; mechanically safe. Excellent electrical characteristics. • The materials used and the construction techniques ensure excellent flame resistance, arc resistance and moisture resistance as well as self-extinguishing capabilities. They will withstand the most rigorous loading test. • Applicable specifications: EIA RS-344 and EIA RC649.

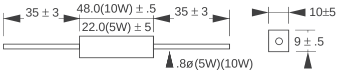

5 Watt Standard Resistor Values — See below for complete part numbers when ordering.

0.30 0.33 0.39 0.43 0.47 0.51 0.56
0.62 0.68 0.75 0.82 0.91 1.0 1.1
1.2 1.3 1.5 1.6 1.8 2.0
2.2 2.4 2.7 3.0 3.3 3.6
3.9 4.3 4.7 5.1 5.6 6.2
6.8 7.5 8.2 9.1 10 11
12 13 15 16 18 20
22 24 27 30 33 36
39 43 47 51 56 62
68 75 82 91 100 110
120 130 150 160 180 200
220 240 270 300 330 360
390 430 470 510 560 620
680 750 820 910 1.0K 1.1K
1.2K 1.3K 1.5K 1.6K 1.8K 2.0K

10 Watt Standard Resistor Values — See below for complete part numbers when ordering.

1.0 1.1 1.2 1.3 1.5 1.6
1.8 2.0 2.2 2.4 2.7 3.0
3.3 3.6 3.9 4.3 4.7 5.1
5.6 6.2 6.8 7.5 8.2 9.1
10 11 12 13 15 16
18 20 22 24 27 30
33 36 39 43 47 51
56 62 68 75 82 91
100 110 120 130 150 160
180 200 220 240 270
300 330 360 390 430
470 510 560 620 680
750 820 910 1.0K 1.1K
1.2K 1.3K 1.5K 1.6K 1.8K
2.0K 2.2K 2.4K 2.7K 3.0K

Description	Digi-Key Part No.	Pricing 1	10	100	1M	5M	10M
5 Watt, 5% Wirewound Rectangular Resistors, Bulk Package 0.30Ω ~ 180Ω	(Value)W-5-ND (i.e. 0.30W-5-ND)	.33	2.78	22.24	133.44	119.54/M	105.64/M
5 Watt, 5% Metal Oxide Film Rectangular Resistors, Bulk Package 200Ω ~ 2.0KΩ	(Value)W-5-ND (i.e. 200W-5-ND)	.33	2.78	22.24	133.44	119.54/M	105.64/M
10 Watt, 5% Wirewound Rectangular Resistors, Bulk Package 1.0Ω ~ 270Ω	(Value)W-10-ND (i.e. 1.0W-10-ND)	.49	4.07	32.58	195.46	175.10/M	154.74/M
10 Watt, 5% Metal Oxide Film Rectangular Resistors, Bulk Package 300Ω ~ 3.0KΩ	(Value)W-10-ND (i.e. 300W-10-ND)	.49	4.07	32.58	195.46	175.10/M	154.74/M

Characteristics

Temperature Coefficient	±300 PPM/°C
Insulation Resistance	100 MΩ
Load Life (1,000 hours)	±5% + 0.05Ω
Short-Time Overload	±2% + 0.05Ω
Dielectric Withstanding Volt	±2% + 0.05Ω
Moisture Resistance	±5% + 0.05Ω
Shock and Vibration	±1% + 0.05Ω
Effect of Soldering	±2% + 0.05Ω

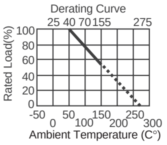

Digi-Key® 5 Watt Resistor Assortment Kit

RS105-ND 0.30Ω-0.91Ω — 5 each 60 Resistors...... **$23.95**

RS205-ND 1.0Ω-9.1Ω — 4 each 96 Resistors......... **$32.95**

RS305-ND 10Ω-91Ω — 4 each 96 Resistors.......... **$32.95**

RS405-ND 100Ω-2.0KΩ — 3 each 96 Resistors...... **$32.95**

Digi-Key® 10 Watt Resistor Assortment Kit

2 each of all 10 watt standard resistor values listed above. A total of 168 resistors.

RS110-ND.................................... **$72.95**

YAGEO Zerohm Jumper Wires

Applications:

Generally they are used for the following reasons:

- Inability to connect two points on a P.C. Board due to other circuit paths which must be crossed over.
- An After-the-Fact design change that requires new point connections.
- Circuit tuning by changing point connections.

Specifications:
• Maximum Resistance: 0.004 ohm on 1/8 watt, 0.003Ω on 1/4 watt • Typical Resistance: 0.002Ω on both • Lead Material: tin-plated copper • Body Material: electrical grade, high performance molding compound • Minimum Insulation Resistance — Dry: 10,000MΩ, Wet: 100MΩ • Minimum Dielectric Withstanding Voltage — Atmospheric: 500V RMS, Reduced: 325V RMS • Insulation Flammability: resistor-insulation is self extinguishing within 10 seconds after externally applied flame is removed • Current Rating: 25 Amps at 25°C, derating to 0 Amps at 150°C.

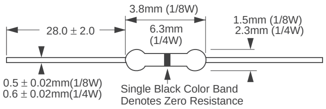

Description	Digi-Key Part No.	Pricing 5	200	1M	5M	10M	50M
1/8 Watt, Zerohm Jumper, Bulk Package	0.0EBK-ND	.22	6.98	14.00	12.84/M	11.63/M	10.74/M
1/8 Watt, Zerohm Jumper, Tape/Reel (5M Pcs./Reel)	0.0ETR-ND	—	—	—	15.80/M	14.87/M	12.16/M
1/4 Watt, Zerohm Jumper, Bulk Package	0.0QBK-ND	.30	5.55	11.28	10.38/M	9.41/M	8.69/M
1/4 Watt, Zerohm Jumper, Tape/Reel (5M Pcs./Reel)	0.0QTR-ND	—	—	—	12.11/M	11.39/M	9.34/M

YAGEO 5% Carbon Film Resistors

Available In 1/6, 1/4 and 1/2 Watt

Standard Resistor Values
See below for complete part numbers when ordering.

1.0 1.1 1.2 1.3 1.5 1.6
1.8 2.0 2.2 2.4 2.7 3.0
3.3 3.6 3.9 4.3 4.7 5.1
5.6 6.2 6.8 7.5 8.2 9.1
10 11 12 13 15 16
18 20 22 24 27 30
33 36 39 43 47 51
56 62 68 75 82 91
100 110 120 130 150 160
180 200 220 240 270 300
330 360 390 430 470 510
560 620 680 750 820 910
1.0K 1.1K 1.2K 1.3K 1.5K 1.6K
1.8K 2.0K 2.2K 2.4K 2.7K 3.0K
3.3K 3.6K 3.9K 4.3K 4.7K 5.1K
5.6K 6.2K 6.8K 7.5K 8.2K 9.1K
10K 11K 12K 13K 15K 16K
18K 20K 22K 24K 27K 30K
33K 36K 39K 43K 47K 51K
56K 62K 68K 75K 82K 91K
100K 110K 120K 130K 150K 160K
180K 200K 220K 240K 270K 300K
330K 360K 390K 430K 470K 510K
560K 620K 680K 750K 820K 910K
1.0M 1.1M 1.2M 1.3M 1.5M 1.6M
1.8M 2.0M 2.2M 2.4M 2.7M 3.0M
3.3M 3.6M 3.9M 4.3M 4.7M 5.1M
5.6M 6.2M 6.8M 7.5M 8.2M 9.1M
10M

CFR Series

Type (Power Rating)	Dimensions (mm) L	D	d	Maximum Working Voltage	Maximum Overload Voltage	Dielectric Withstanding Voltage	Rated Ambient Temperature	Temperature Cycling	Resistance Range	Resistance Tolerance
1/6 Watt *	3.3 ± 0.4	1.8 ± 0.3	0.5 ± 0.05	150V	300V	300V	70°C	-55°C ~ 155°C	1.0Ω ~ 10MΩ	±5%
1/4 Watt	6.3 ± 0.5	2.3 ± 0.3	0.6 ± 0.05	250V	500V	500V	70°C	-55°C ~ 155°C	1.0Ω ~ 10MΩ	±5%
1/2 Watt	9.0 ± 0.5	3.2 ± 0.5	0.6 ± 0.05	350V	700V	500V	70°C	-55°C ~ 155°C	1.0Ω ~ 10MΩ	±5%

Features:

- Industry's lowest cost!
- Available in 1/6, 1/4, 1/2 watt; packaged in bulk or tape/reel (except 1/2 watt)
- Exceeds carbon comp MIL-R-11 performance
- Standard tolerance: ±5%
- Exceptional long-term stability

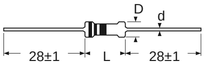

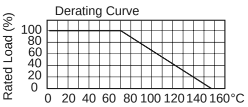

Characteristics: • Operating Temperature Range: -55°C ~ 155°C • Solderability: 235°C for 5±0.5 seconds • Short Time Overload: 2.5 Times RCW V for 5 seconds • Resistance To Solvent: Trichroethane for 1 minute with ultrasonic • Pulse Overload: 4 times RCW V 10000 cycles (1second on, 25 seconds off)

Description	Digi-Key Part No.	Pricing 5	200	1M	5M	10M	50M
1/6 Watt, 5% Carbon Film Resistors (* Power rating at 70°C = 1/6W) Bulk Package	(Value)EBK-ND (i.e., 1.0EBK-ND)	.26	4.30	12.47	11.18/M	10.32/M	9.46/M
1/6 Watt, 5% Carbon Film Resistors — Tape and Reel (* Power rating at 70°C = 1/6W) (5,000 pcs./reel — Order in multiples of 5,000)	(Value)ETR-ND (i.e., 1.0ETR-ND)	—	—	—	13.46/M	12.42/M	9.94/M
1/4 Watt, 5% Carbon Film Resistors Bulk Package	(Value)QBK-ND (i.e., 1.0QBK-ND)	.27	3.82	8.55	8.13/M	7.56/M	6.13/M
1/4 Watt, 5% Carbon Film Resistors — Tape and Reel (5,000 pcs./reel — Order in multiples of 5,000)	(Value)QTR-ND (i.e., 1.0QTR-ND)	—	—	—	8.75/M	8.07/M	6.46/M
1/2 Watt, 5% Carbon Film Resistors Bulk Package	(Value)H-ND (i.e., 1.0H-ND)	.26	3.76	12.22	11.28/M	10.34/M	9.40/M

"E" = Sixth Watt; "Q" = Quarter Watt; "H" = Half Watt. Please be sure to specify. Half watt available in bulk package only.

Digi-Key® 1/6 Watt Resistor Assortment

RSE200-ND 200 each of all std. values 5% 1/6 watt carbon film resistors in the series 1.0Ω- 10MΩ (33,800 total pieces).................. **$409.00**

RS112-ND Set of 5 each of 73 standard 5% 1/6 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0MΩ (365 total pieces).. **$16.96**

RS212-ND Set of 5 each of the 72 standard 5% 1/6 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910kΩ (360 total pieces).. **$16.99**

Digi-Key® 1/4 Watt Resistor Assortment

RSQ200-ND 200 each of all std. values 5% 1/4 watt carbon film resistors in the series 1.0Ω - 10MΩ (33,800 total pieces)............ **$239.00**

RS125-ND Set of 5 each of 73 standard 5% 1/4 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc., through 1.0 MΩ (365 total pieces)..**$14.95**

RS225-ND Set of 5 each of the 72 standard 5% 1/4 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910kΩ (360 total pieces)..**$14.95**

Digi-Key® 1/2 Watt Resistor Assortment

RSH200-ND 200 each of all std. values 5% 1/2 watt carbon film resistors in the series 1.0Ω - 10MΩ (33,800 total pieces)........... **$335.00**

RS150-ND Set of 5 each of 73 standard 5% 1/2 watt carbon film resistors in the series 1.0Ω, 1.2Ω, 1.5Ω, 1.8Ω, 2.2Ω, etc. through 1.0MΩ (365 total pieces)....................................... **$16.95**

RS250-ND Set of 5 each of the 72 standard 5% 1/2 watt carbon film resistors in the series 1.1Ω, 1.3Ω, 1.6Ω, 2.0Ω, 2.4Ω, etc., through 910kΩ (360 total pieces)....................................... **$16.95**

YAGEO 1% Metal Film Fixed Resistors 1/4 Watt

MFR Series

The MFR series Metal Film Resistors are manufactured using vacuum sputtering system to deposit multiple layers of mixed metals and passivative materials onto a carefully treated high grade ceramic substrate, the resistors are coated with layers of light-blue lacquer.

General Specifications:

Power Rating: 1/4 Watt. **Maximum Working Voltage:** 250V. **Maximum Overload Voltage:** 500V. **Rated Ambient Temperature:** 70°C. **Temperature Cycling:** –65°C ~ 150°C. **Resistance Range:** 10.0Ω ~ 1.00MΩ. **Resistance Tolerance:** ±1%.

Electrical Specifications:

All measurements are taken at +25°C at 1KHz and 65% relative humidity, unless stated otherwise. **Type:** MF-25 **Style:** RN-55 **Power Rating:** 1/4 Watt **Resistance Tolerance:** ±1% **Temperature Coefficient:** ±100PPM/°C

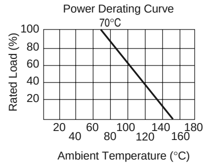

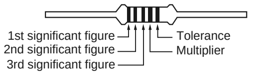

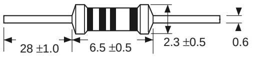

Characteristics

Temperature Cycling, -65°C ~ 150°C	(%)....... ±0.25
Low Temperature Operation, -65°C	(%)....... ±0.25
Short Time Overload	(%)....... ±0.20
Terminal Strength, 5 lb. pull	(%)....... ±0.20
Resistance to Soldering Heat, 350°C	(%)....... ±0.10
Moisture Resistance, Mil Std 202	(%)....... ±0.50
Life 1000 hrs. (Rated Power)	(%)....... ±0.50
Shock, 50G, 11ms	(%)....... ±0.20
Vibration-High Frequency, 10-2000Hz	(%)....... ±0.20
Insulation Resistance	(%)...... =10^{10}Ω
Failure-Rate	(%)....... 10^{-8}/h

1% Metal Film Resistors

Digi-Key® Assortment Kits

35% SAVINGS

Over Parts Purchased Separately

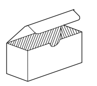

5 Each of Values 10Ω to 97.6Ω
RS1X-ND **$29.95**

5 Each of Values 100Ω to 976Ω
RS2X-ND **$29.95**

5 Each of Values 1.00KΩ to 9.76KΩ
RS3X-ND **$29.95**

5 Each of Values 10.0KΩ to 97.6KΩ
RS4X-ND **$29.95**

5 Each of Values 100KΩ to 1.00MΩ
RS5X-ND **$29.95**

Description	Value Range	Digi-Key Part No.	Pricing 5	200	1M	5M	10M	50M	100M	500M	1,000M
1/4 Watt, 1% Metal Film Resistors Bulk Package	10.0 ~ 1.00M Ω	(Value)XBK-ND (i.e. 10.0XBK-ND)	.49	7.41	19.16	16.36/M	14.06/M	11.25/M	—	—	—
1/4 Watt, 1% Metal Film Resistors Order in multiples of 5,000 (5,000 pcs./reel)	10.0 ~ 1.00M Ω	(Value)XTR-ND (i.e. 10.0XTR-ND)	—	—	—	18.57/M	15.84/M	12.87/M	10.89/M	8.91/M	7.92/M

YAGEO Standard Resistor Values

10.0	18.7	34.8	64.9	121	226	422	787	1.47K	2.74K	5.11K	9.53K	17.8K	33.2K	61.9K	115K	215K	402K	750K
10.2	19.1	35.7	66.5	124	232	432	806	1.50K	2.80K	5.23K	9.76K	18.2K	34.0K	63.4K	118K	221K	412K	768K
10.5	19.6	36.5	68.1	127	237	442	825	1.54K	2.87K	5.36K	10.0K	18.7K	34.8K	64.9K	121K	226K	422K	787K
10.7	20.0	37.4	69.8	130	243	453	845	1.58K	2.94K	5.49K	10.2K	19.1K	35.7K	66.5K	124K	232K	432K	806K
11.0	20.5	38.3	71.5	133	249	464	866	1.62K	3.01K	5.62K	10.5K	19.6K	36.5K	68.1K	127K	237K	442K	825K
11.3	21.0	39.2	73.2	137	255	475	887	1.65K	3.09K	5.76K	10.7K	20.0K	37.4K	69.8K	130K	243K	453K	845K
11.5	21.5	40.2	75.0	140	261	487	909	1.69K	3.16K	5.90K	11.0K	20.5K	38.3K	71.5K	133K	249K	464K	866K
11.8	22.1	41.2	76.8	143	267	499	931	1.74K	3.24K	6.04K	11.3K	21.0K	39.2K	73.2K	137K	255K	475K	887K
12.1	22.6	42.2	78.7	147	274	511	953	1.78K	3.32K	6.19K	11.5K	21.5K	40.2K	75.0K	140K	261K	487K	909K
12.4	23.2	43.2	80.6	150	280	523	976	1.82K	3.40K	6.34K	11.8K	22.1K	41.2K	76.8K	143K	267K	499K	931K
12.7	23.7	44.2	82.5	154	287	536	1.00K	1.87K	3.48K	6.49K	12.1K	22.6K	42.2K	78.7K	147K	274K	511K	953K
13.0	24.3	45.3	84.5	158	294	549	1.02K	1.91K	3.57K	6.65K	12.4K	23.2K	43.2K	80.6K	150K	280K	523K	976K
13.3	24.9	46.4	86.6	162	301	562	1.05K	1.96K	3.65K	6.81K	12.7K	23.7K	44.2K	82.5K	154K	287K	536K	1.00M
13.7	25.5	47.5	88.7	165	309	576	1.07K	2.00K	3.74K	6.98K	13.0K	24.3K	45.3K	84.5K	158K	294K	549K	
14.0	26.1	48.7	90.9	169	316	590	1.10K	2.05K	3.83K	7.15K	13.3K	24.9K	46.4K	86.6K	162K	301K	562K	
14.3	26.7	49.9	93.1	174	324	604	1.13K	2.10K	3.92K	7.32K	13.7K	25.5K	47.5K	88.7K	165K	309K	576K	
14.7	27.4	51.1	95.3	178	332	619	1.15K	2.15K	4.02K	7.50K	14.0K	26.1K	48.7K	90.9K	169K	316K	590K	
15.0	28.0	52.3	97.6	182	340	634	1.18K	2.21K	4.12K	7.68K	14.3K	26.7K	49.9K	93.1K	174K	324K	604K	
15.4	28.7	53.6	100	187	348	649	1.21K	2.26K	4.22K	7.87K	14.7K	27.4K	51.1K	95.3K	178K	332K	619K	
15.8	29.4	54.9	102	191	357	665	1.24K	2.32K	4.32K	8.06K	15.0K	28.0K	52.3K	97.6K	182K	340K	634K	
16.2	30.1	56.2	105	196	365	681	1.27K	2.37K	4.42K	8.25K	15.4K	28.7K	53.6K	100K	187K	348K	649K	
16.5	30.9	57.6	107	200	374	698	1.30K	2.43K	4.53K	8.45K	15.8K	29.4K	54.9K	102K	191K	357K	665K	
16.9	31.6	59.0	110	205	383	715	1.33K	2.49K	4.64K	8.66K	16.2K	30.1K	56.2K	105K	196K	365K	681K	
17.4	32.4	60.4	113	210	392	732	1.37K	2.55K	4.75K	8.87K	16.5K	30.9K	57.6K	107K	200K	374K	698K	
17.8	33.2	61.9	115	215	402	750	1.40K	2.61K	4.87K	9.09K	16.9K	31.6K	59.0K	110K	205K	383K	715K	
18.2	34.0	63.4	118	221	412	768	1.43K	2.67K	4.99K	9.31K	17.4K	32.4K	60.4K	113K	210K	392K	732K	

YAGEO 5% Metal Oxide Film Resistors

RSF Series

These Metal Oxide Resistors offer lower cost alternatives to Carbon Composition Resistors and General Purpose Metal Films. They can replace many low power General Purpose wirewound applications. These Metal Oxides meet overload tests in accordance with UL specification #1412 without producing a fire hazard. They withstand solvents in accordance with article Mil-Std-202E without producing mechanical or electrical damage.

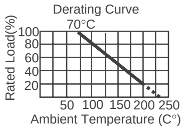

Features: High surge/overload capability. Non-inductive design. Coating and marking resist Trichlorethelyne, Freon, and other cleaning agents. The RFS Series resistors are coated with layers of gray flame-proof lacquer.

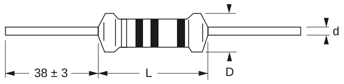

Type	Max. Working Volt.	Dimensions (mm) L	D	d
1W	350	11.5 ± 1.0	4.5 ± 0.5	0.8 ± 0.05
2W	350	15.5 ± 1.0	5.0 ± 0.5	0.8 ± 0.05

Digi-Key® 1 and 2 Watt Resistor Assortment Kits

255 resistors per assortment. 5 each of the values in the ranges listed:

	0.47Ω - 56Ω	62Ω- 7.5KΩ	8.2KΩ - 1.0M	
1 Watt	**RS101-ND**	**RS201-ND**	**RS301-ND**	**$26.95**
2 Watt	**RS102-ND**	**RS202-ND**	**RS302-ND**	**$29.95**

Characteristics:

Temperature Coefficient	±300 PPM
Insulation Resist.	10,000 ΩV Minimum
Load Life (1,000 hours)	<1% Typ. ±3% Maximum
Short-time Overload	±0.5% Maximum
Temp. Cycling	±0.5% Maximum
Moisture Resistance	±1.0% Maximum
Shock & Vibration	±0.2% Maximum
Effect of Soldering	±0.5% Maximum
Voltage Coefficient	.001%/V
Current Noise	<.1μV/V

Standard Resistor Values — See below for complete part numbers when ordering.

0.47	0.82	1.5	2.7	4.3	6.8	11	18	30	47	75	120	200	330	510	820	1.3K	2.2K	3.6K	5.6K	9.1K	15K	24K	39K	62K	100K	160K	270K	430K	680K
0.51	0.91	1.6	3.0	4.7	7.5	12	20	33	51	82	130	220	360	560	910	1.5K	2.4K	3.9K	6.2K	10K	16K	27K	43K	68K	110K	180K	300K	470K	750K
0.56	1.0	1.8	3.3	5.1	8.2	13	22	36	56	91	150	240	390	620	1.0K	1.6K	2.7K	4.3K	6.8K	11K	18K	30K	47K	75K	120K	200K	330K	510K	820K
0.62	1.1	2.0	3.6	5.6	9.1	15	24	39	62	100	160	270	430	680	1.1K	1.8K	3.0K	4.7K	7.5K	12K	20K	33K	51K	82K	130K	220K	360K	560K	910K
0.68	1.2	2.2	3.9	6.2	10	16	27	43	68	110	180	300	470	750	1.2K	2.0K	3.3K	5.1K	8.2K	13K	22K	36K	56K	91K	150K	240K	390K	620K	1.0M
0.75	1.3	2.4																											

Description	Digi-Key Part No.	Pricing 1	10	100	1M	5M	10M
1 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-0.91Ω)	(Value)W-1-ND (i.e. 0.47W-1-ND)	.22	1.62	10.40	63.55	56.62/M	50.85/M
1 Watt, 5% Metal Oxide Film Resistors Bulk Package (1.0-1.0MΩ)	(Value)W-1-ND (i.e. 1.0W-1-ND)	.15	1.12	7.20	44.00	39.20/M	35.20/M
2 Watt, 5% Metal Oxide Film Resistors Bulk Package (0.47-0.91Ω)	(Value)W-2-ND (i.e. 0.47W-2-ND)	.23	1.73	11.13	68.01	60.59/M	54.41/M
2 Watt, 5% Metal Oxide Film Resistors Bulk Package (1.0-1.0MΩ)	(Value)W-2-ND (i.e. 1.0W-2-ND)	.18	1.35	8.65	52.88	47.12/M	42.31/M

HUNTINGTON ELECTRIC, INC.

Silicone Coated Wirewound Resistors – 1, 3, 5 Watt, 1%

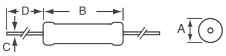

Series	A ±.81mm	B ±.81mm	C	D
ALSR-1	2.79	9.78	.51	38.10
ALSR-3	5.08	13.46	.81	38.10
ALSR-5	7.92	23.80	.81	38.10

Electrical Specifications

Series	ALSR-1	ALSR-3, ALSR-5
Resistance Tolerance	±1%	±1%
Dielectric Withstanding Voltage	500VAC	1000VAC
Short Time Overload	5 X rated wattage for 5 seconds	

RESISTANCE VALUE CHART

.10	.50	5.0	22	40	100	225	400	750	1.5K	3.5K	6.8K	20.0K
.13	.75	7.5	25	47	120	250	470	800	1.8K	3.9K	7.5K	25.0K
.15	1.0	10	27	50	125	270	500	820	2.0K	4.0K	8.0K	
.20	1.5	12	30	56	150	300	560	900	2.2K	4.7K	8.2K	
.25	2.0	15	33	68	180	330	600	1.0K	2.5K	5.0K	10.0K	
.30	3.0	18	35	75	200	350	680	1.1K	2.7K	5.6K	12.5K	
.33	4.0	20	39	82	220	390	700	1.2K	3.0K	6.0K	15.0K	

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	10	25	50	100	Huntington Part No.
.10-.75	1	ALSR1F-(Value)-ND	1.98	1.77	—	1.50	1.10	ALSR-1-(Value)-1%
1.0-900	1	ALSR1F-(Value)-ND	1.95	1.74	—	1.47	1.08	ALSR-1-(Value)-1%
1.0K-3.0K	1	ALSR1F-(Value)-ND	2.02	1.80	—	1.52	1.12	ALSR-1-(Value)-1%
.10-900	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
1.0K-2.7K	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
3.0K-4.7K	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
5.0K-10.0K	3	ALSR3F-(Value)-ND	1.38	—	1.16	—	.97	ALSR-3-(Value)-1%
.10-900	5	ALSR5F-(Value)-ND	1.35	—	1.14	—	.95	ALSR-5-(Value)-1%
1.0K-4.7K	5	ALSR5F-(Value)-ND	1.30	—	1.10	—	.91	ALSR-5-(Value)-1%
5.0K-8.2K	5	ALSR5F-(Value)-ND	1.30	—	1.10	—	.91	ALSR-5-(Value)-1%
10.0K-20.0K	5	ALSR5F-(Value)-ND	1.35	—	1.14	—	.95	ALSR-5-(Value)-1%
25.0K	5	ALSR5F-(Value)-ND	1.35	—	1.14	—	.95	ALSR-5-(Value)-1%

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Silicone Coated Wirewound Resistors – 1, 3, 5, 10 Watt, 5%

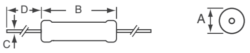

Series	A ±.81mm	B ±.81mm	C	D
ALSR-1	2.79	9.78	.51	38.10
ALSR-3	5.08	13.46	.81	38.10
ALSR-5	7.92	23.80	.81	38.10
ALSR-10	7.92	45.72	.81	38.10

Electrical Specifications:

Series	ALSR-1	ALSR-3	ALSR-5	ALSR-10
Resistance Tolerance	±5%	±5%	±5%	±5%
Power Rating	1 Watts at 25°C	3 Watts at 25°C	5 Watts at 25°C	10 Watts at 25°C
Dielectric Withstanding Voltage	500VAC	1000VAC	1000VAC	1000VAC
Short Time Overload	5 X rated wattage for 5 seconds		10 X rated wattage for 5 seconds	

RESISTANCE VALUE CHART

.10	2.0	25	75	270	680	1.75K	4.0K	8.5K	20.0K
.13	3.0	27	82	300	700	1.8K	4.5K	9.0K	22.0K
.15	4.0	30	100	330	750	2.0K	4.7K	10.0K	22.5K
.20	5.0	33	120	350	800	2.2K	5.0K	11.0K	25.0K
.25	7.5	35	125	390	820	2.25K	5.6K	12.0K	
.30	10	39	150	400	900	2.5K	6.0K	12.5K	
.33	12	40	180	450	1.0K	2.7K	6.8K	13.5K	
.50	15	47	200	470	1.1K	3.0K	7.0K	15.0K	
.75	18	50	220	500	1.2K	3.3K	7.5K	16.0K	
1.0	20	56	225	560	1.25K	3.5K	8.0K	17.5K	
1.5	22	68	250	600	1.5K	3.9K	8.2K	18.0K	

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington* Part No.
.10-.75	1	ALSR1J-(Value)-ND	1.63	1.45	1.23	.90	ALSR-1-(Value)
1.0-900	1	ALSR1J-(Value)-ND	1.59	1.43	1.21	.89	ALSR-1-(Value)
1.0K-5.6K	1	ALSR1J-(Value)-ND	1.85	1.66	1.40	1.03	ALSR-1-(Value)
6.0K-10.0K	1	ALSR1J-(Value)-ND	1.85	1.66	1.40	1.03	ALSR-1-(Value)
.10-900	3	ALSR3J-(Value)-ND	1.40	1.25	1.06	.78	ALSR-3-(Value)
1.0K-4.7K	3	ALSR3J-(Value)-ND	1.40	1.25	1.06	.78	ALSR-3-(Value)
5.0K-10.0K	3	ALSR3J-(Value)-ND	1.53	1.37	1.16	.85	ALSR-3-(Value)
.10-.75	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
1.0-7.5	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
10-2.7K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
3.0K-4.7K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
5.0K-9.0K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
10.0K-22.5K	5	ALSR5J-(Value)-ND	1.56	1.40	1.18	.87	ALSR-5-(Value)
25.0K	5	ALSR5J-(Value)-ND	1.53	1.37	1.16	.85	ALSR-5-(Value)
.10-.75	10	ALSR10-(Value)-ND	1.98	1.77	1.50	1.10	ALSR-10-(Value)
1.0-680, 750-900	10	ALSR10-(Value)-ND	1.69	1.51	1.28	.94	ALSR-10-(Value)
1.0K-2.7K	10	ALSR10-(Value)-ND	1.82	1.63	1.38	1.01	ALSR-10-(Value)
3.0K-9.0K	10	ALSR10-(Value)-ND	2.11	1.89	1.60	1.17	ALSR-10-(Value)
10.0K-22.5K	10	ALSR10-(Value)-ND	2.31	2.06	1.74	1.28	ALSR-10-(Value)
25.0K	10	ALSR10-(Value)-ND	2.31	2.06	1.74	1.28	ALSR-10-(Value)

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Vitreous Enamel Wirewound Power Resistors – 8, 12 Watt

Series	A	B	C	D	E	F
FVTS-5	7.94	25.40	4.76	11.11	.81	50.80
FVTS-10	7.94	44.45	4.76	11.11	.81	50.80

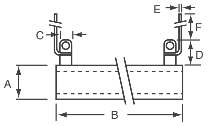

Electrical Specifications:

Series	FVTS-5	FVTS-10
Resistance Tolerance	±5% 1Ω & above ±10% 1Ω & below	±5% 1Ω & above ±10% 1Ω & below
Power Rating	8 Watts at 25°C	12 Watts at 25°C
Dielectric Withstanding Voltage	1000VAC	1000VAC
Short Time Overload	5 X rated wattage for 5 seconds	10 X rated wattage for 5 seconds

RESISTANCE VALUE CHART

2.0	10	35	125	300	600	1.2K	2.5K	4.5K	7.5K	12.0K	40.0K
3.0	15	50	150	400	750	1.25K	3.0K	5.0K	8.0K	15.0K	50.0K
5.0	20	75	200	450	900	1.5K	3.5K	6.0K	9.0K	20.0K	
7.5	25	100	250	500	1.0K	2.0K	4.0K	7.0K	10.0K	25.0K	

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	25	100	250	Huntington Part No.
5.0-900	8	FVTS5-(Value)-ND	2.53	2.17	1.66	1.48	FVTS-5-(Value)
1.0K-4.5K	8	FVTS5-(Value)-ND	2.67	2.28	1.75	1.56	FVTS-5-(Value)
5.0K-9.0K	8	FVTS5-(Value)-ND	2.81	2.40	1.84	1.64	FVTS-5-(Value)
10.0K	8	FVTS5-(Value)-ND	2.64	2.26	1.73	1.54	FVTS-5-(Value)
2.0-450	12	FVTS10-(Value)-ND	2.78	2.38	1.82	1.62	FVTS-10-(Value)
500-900	12	FVTS10-(Value)-ND	3.00	2.57	1.97	1.75	FVTS-10-(Value)
1.0K-5.0K, 7.5K-9.0K	12	FVTS10-(Value)-ND	3.25	2.78	2.13	1.89	FVTS-10-(Value)
10.0K-20.0K	12	FVTS10-(Value)-ND	3.52	3.01	2.31	2.05	FVTS-10-(Value)
25.0K	12	FVTS10-(Value)-ND	3.88	3.32	2.54	2.26	FVTS-10-(Value)
40.0K, 50.0K	12	FVTS10-(Value)-ND	4.95	4.23	3.24	2.88	FVTS-10-(Value)

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Vitreous Enamel Wirewound Power Resistors – 25, 50, 100, 225 Watt

ADJUSTABLE AVT SERIES: • **Resistance Tolerance:** ±10%, wattage rating applied only when the entire resistance is in the circuit • **Dielectric Withstanding Voltage:** 1000VAC • **Short Time Overload:** 10 times the rated wattage for 5 seconds

FIXED FVT SERIES: • **Resistance Tolerance:** ±5% above 1Ω • **Dielectric Withstanding Voltage:** 1000VAC • **Short Time Overload:** 10 times the rated wattage for 5 seconds

RESISTANCE VALUE CHART

1.0	10	150	750	5.0K	50.0K
2.0	25	200	1.0K	10.0K	
3.0	50	250	2.5K	12.0K	
5.0	100	500	4.0K	25.0K	

AVT

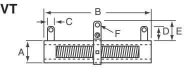

Series	A	B	C	D	E	F
AVT25	14.29	50.80	6.35	14.29	17.46	4.22
AVT50	14.29	101.60	6.35	14.29	17.46	4.22
AVT100	19.05	165.10	6.35	14.29	17.46	4.22
AVT200	28.58	266.70	7.94	15.88	22.23	4.22

FVT

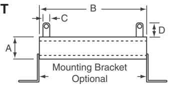

Series	A	B	C	D
FVT25	14.29	50.80	6.35	14.29
FVT50	14.29	101.60	6.35	14.29
FVT100	19.05	165.10	6.35	14.29
FVT200	28.58	266.70	7.94	15.88

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	10	25	100	Huntington Part No.
2.0-3.0	25	FVT25-(Value)-ND	3.31	—	2.40	1.89	FVT-25-(Value)
10, 25, 100	25	FVT25-(Value)-ND	3.28	—	2.38	1.87	FVT-25-(Value)
500-4.0K	25	FVT25-(Value)-ND	3.28	—	2.38	1.87	FVT-25-(Value)
5.0K	25	FVT25-(Value)-ND	3.54	—	2.57	2.02	FVT-25-(Value)
10.0K-12.0K	25	FVT25-(Value)-ND	3.77	—	2.73	2.15	FVT-25-(Value)
25.0K-50.0K	25	FVT25-(Value)-ND	4.76	—	3.45	2.71	FVT-25-(Value)
1.0-5.0	50	FVT50-(Value)-ND	4.79	—	3.47	2.73	FVT-50-(Value)
10-100, 500, 1.0K	50	FVT50-(Value)-ND	4.50	—	3.26	2.56	FVT-50-(Value)
5.0K	50	FVT50-(Value)-ND	4.79	—	3.47	2.73	FVT-50-(Value)
1.0, 2.0, 5.0	100	FVT100-(Value)-ND	8.21	—	5.95	4.67	FVT-100-(Value)
10, 50, 100, 250, 1.0K	100	FVT100-(Value)-ND	7.48	—	5.42	4.26	FVT-100-(Value)
1.0, 3.0, 5.0	225	FVT200-(Value)-ND	12.36	11.13	9.89	9.27	FVT-200-(Value)
10, 50, 100, 250, 500	225	FVT200-(Value)-ND	10.30	9.27	8.24	7.73	FVT-200-(Value)
1.0K	225	FVT200-(Value)-ND	10.30	9.27	8.24	7.73	FVT-200-(Value)
1.0, 3.0, 5.0	25	AVT25-(Value)-ND	5.63	5.18	4.28	3.60	AVT-25-(Value)
10-100, 250, 500	25	AVT25-(Value)-ND	4.65	4.28	3.54	2.98	AVT-25-(Value)
1.0-5.0	50	AVT50-(Value)-ND	6.58	6.05	5.00	4.21	AVT-50-(Value)
10-100, 500	50	AVT50-(Value)-ND	5.65	5.20	4.30	3.62	AVT-50-(Value)
1.0K	50	AVT50-(Value)-ND	5.93	5.46	4.51	3.80	AVT-50-(Value)
1.0, 2.0	100	AVT100-(Value)-ND	12.83	11.80	9.75	8.21	AVT-100-(Value)
10, 50, 100, 250	100	AVT100-(Value)-ND	9.48	8.72	7.21	6.07	AVT-100-(Value)
1.0K	100	AVT100-(Value)-ND	10.95	10.08	8.33	7.01	AVT-100-(Value)
1.0-5.0	225	AVT200-(Value)-ND	22.35	20.57	16.99	14.31	AVT-200-(Value)
10-500	225	AVT200-(Value)-ND	16.10	14.82	12.24	10.31	AVT-200-(Value)
1.0K	225	AVT200-(Value)-ND	16.90	15.55	12.85	10.82	AVT-200-(Value)
Mounting Bracket for 25/50W Res.		B1003-ND‡	.90/2	.35	—	.25	B1003-1
Mounting Bracket for 100W Res.		B1002-ND‡	1.08/2	.42	—	.30	B1002-1
Mounting Bracket for 200W Res.		B1001-ND‡	1.17/2	.46	—	.33	B1001-1

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).
‡ Requires 2 brackets per resistor

HUNTINGTON ELECTRIC, INC.

NEW! Ultra Precision Wirewound Resistors 1/8 Watt, 1/4 Watt, .01, .05, .1%

MR102 and MR106 Series

RESISTANCE VALUE CHART

100	350	10K
250	1K	100K

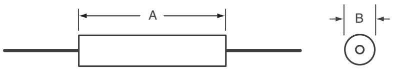

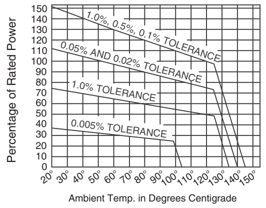

Series	Value Range (Ω)	Res. Tol. (%)	Max. Wattage (W)	Max. Voltage (V)	Ohms (Ω)	Dimensions (mm) A	Dimensions (mm) B	Digi-Key Part No.	Price Each 1	10	50	100	Huntington Part No.
MR102	100 ~ 10K 100K	±0.01	1/8	125	1.5M	9.52	4.75	MR102-(Value)-.01-ND MR102-100K-.01-ND	5.68 6.80	4.54 5.44	3.75 4.49	3.52 4.22	MR102-xxx-.01% MR102-100K-.01%
	100 ~ 10K 100K	±0.5	1/8	125	1.5M	9.52	4.75	MR102-(Value)-.05-ND MR102-100K-.05-ND	4.63 5.50	3.70 4.40	3.05 3.63	2.87 3.41	MR102-xxx-.05% MR102-100K-.05%
	100 ~ 10K 100K	±.1	1/8	125	1.5M	9.52	4.75	MR102-(Value)-.1-ND MR102-100K-.1-ND	4.20 5.00	3.36 4.00	2.77 3.30	2.60 3.10	MR102-xxx-.1% MR102-100K-.1%
MR106	100 ~ 10K 100K	±0.01	1/4	250	3.0M	12.70	6.35	MR106-(Value)-.01-ND MR106-100K-.01-ND	5.68 6.80	4.54 5.44	3.75 4.49	3.52 4.22	MR106-xxx-.01% MR106-100K-.01%
	100 ~ 10K 100K	±0.5	1/4	250	3.0M	12.70	6.35	MR106-(Value)-.05-ND MR106-100K-.05-ND	4.63 5.50	3.70 4.40	3.05 3.63	2.87 3.41	MR106-xxx-.05% MR106-100K-.05%
	100 ~ 10K 100K	±.1	1/4	250	3.0M	12.70	6.35	MR106-(Value)-.1-ND MR106-100K-.1-ND	4.20 5.00	3.36 4.00	2.77 3.30	2.60 3.10	MR106-xxx-.1% MR106-100K-.1%

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

NEW! Medium Voltage Chassis Mount Resistors – 600 Watt, 10% HPK600 Series

Dim. in mm

Specifications:

- Operating Temperature: -55°C~150°C • Temperature Coefficient: ±150 PPM/°C • Power Rating: 600 Watts @ 85°C heat sink temperature** • Electric Strength Voltage: 6 KVAC, 50 HZ • Insulation Resistance: 10 GΩ minimum @ 500 V • Maximum Working Voltage: 5000 VDC • Short Time Overload: 1000 Watts @ 70°C for 10 seconds
- Single Shot Voltage: Up to 12kv normal wave • Derating: 8.73 W/C

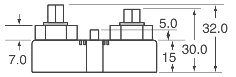

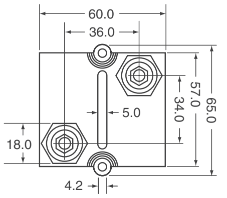

Resistance Range (Ω)	Resistance Tolerance	Digi-Key* Part No.	Price Each 1	10	25	100	Huntington Part No.
2 ~ 10	±10%	HPK600K(Value)R-ND	93.50	79.75	75.63	71.50	HPK600KxxxR
50 ~ 10000	±10%	HPK600K(Value)R-ND	88.40	75.40	71.50	67.60	HPK600KxxxR

RESISTANCE VALUE CHART

2	4	10	75	500	5000
3	5	50	100	1000	10000

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value). **This value only valid by using thermal conduction to the heat sink. The flatness of the cooling plate must be better than 0.05 mm overall and the roughness of the surface should not exceed 6.5um.

NEW! Miniature Oval Wirewound Resistors – 10, 20 Watt, 5, 10% FSOT Series

H.E.I. Miniature Oval Wirewound Resistors are ideally suited for applications where space is limited and the mounting surface can be utilized for heat dissipation purposes. The aluminum mounting brackets extend through the resistor core and equalize heat distribution while conducting heat directly into the mounting surface.

Specifications:

- Mounting Brackets: Constructed of aluminum and are an integral part of the resistor • Temperature Coefficient: ±400 PPM/°C 1Ω ~ 20Ω, ±260 PPM/°C 20Ω and above • Dielectric Withstanding Voltage: 500 VAC measured from terminals to mounting brackets • Overload: 10 X rated wattage for 5 seconds • Terminals: Hot tin dipped • Coating: Silicone • Core: Steatite ceramic

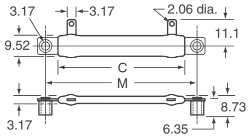

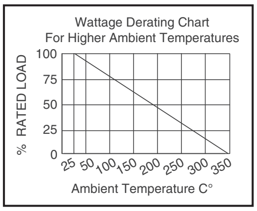

Series	Resistance Range (Ω)	Resistance Tolerance	Wattage	Dim. (mm) C	Dim. (mm) M	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
FSOT-10	.25 ~ .5 1 ~ 5K	10% 5%	10	19.1	25.4	FSOT10-(Value)-ND	3.75	3.00	2.48	2.33	FSOT10-xxx-10% FSOT10-xxx-5%
FSOT-20	.25 ~ .5 1 ~ 5K	10% 5%	20	50.8	58.7	FSOT20-(Value)-ND	5.00	4.00	3.30	3.10	FSOT20-xxx-10% FSOT20-xxx-5%

RESISTANCE VALUE CHART

.25	1	10	50	250	1K	5K
.5	5	25	100	500	2.5K	

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value). **Note:** Wattage Rating is based upon a single resistor mounted on a 10" x 10" x .040" steel mounting surface or equivalent.

NEW! Standard Oval Silicone Resistors — 30, 40, 55, Watt 5, 10% FSOT Series

Specifications:

- Mounting Brackets: Standard oval resistors are supplied with a plated steel mounting bracket and aluminum standoff • Temperature Coefficient: ±400 PPM/°C 1Ω ~ 20Ω, ±260 PPM/°C 20Ω and above • Dielectric Withstanding Voltage: Measured from terminals to mounting brackets. 1000 VAC • Overload: 10 x rated wattage for 5 seconds • Terminals: Hot tin dipped • Coating: Silicone • Core: Ceramic

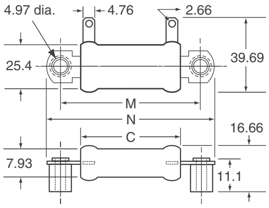

Series	Resistance Range (Ω)	Resistance Range (%)	Watt	Dimensions (mm) C	M	N	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
FSOT-30	.25 ~ .5K 1 ~ 5K	10% 5%	30	31.75	50.8	63.5	FSOT30-(Value)-ND	7.50	5.70	4.80	4.50	FSOT30-xxx-10% FSOT30-xxx-5%
FSOT-40	.25 ~ .5K 1 ~ 5K	10% 5%	40	50.8	69.9	82.5	FSOT40-(Value)-ND	8.13	6.18	5.20	4.88	FSOT40-xxx-10% FSOT40-xxx-5%
FSOT-55	.25 ~ .5K 1 ~ 5K	10% 5%	55	88.9	108.0	120.7	FSOT55-(Value)-ND	8.75	6.65	5.60	5.25	FSOT55-xxx-10% FSOT55-xxx-5%

RESISTANCE VALUE CHART

.25	1	10	50	250	1K	5K
.5	5	25	100	500	2.5K	

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value). **Note:** Wattage Rating is based upon a single resistor mounted on a 254mm x 254mm x 1.02mm steel mounting surface or equivalent.

NEW! LO-OHM Power Resistors — 1, 3, 4, 5 Watt, 1%

Huntington Electric's Lo-Ohm resistors are ideal for current sensing applications in test instruments, power amplifiers, and switching and linear power supplies. These resistors are transfer-molded in high-temperature resin, providing a high power dissipation to size characteristic. This construction also provides superior thermal shock and moisture resistance. The encapsulation will not peel, flake or deteriorate with commonly used cleaning solvents, including Freon, and aqueous cleaning.

Specifications: • Resistance Tolerance: ±1% • Dielectric Strength: 1000 VAC (except 500 VAC for MTL-1A) • Insulation Resistance: 10,000 MΩ (dry) • Short Term Overload: 5 seconds @ 5 x rated power **Applications:** • Ideal for current sensing applications • Low inductance: Typically 7nH • Standard Resistance Tolerance to ±1% • Superior thermal shock and moisture resistance

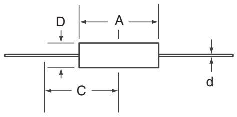

Series	Resistance Range (Ω)	Resistance Tolerance	Wattage Rating	Dimensions (mm) A	D	C	d (AWG**)	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
MTL-1A	.005 ~ .08	1%	1	10.9	3.0	15.0	22	MTL-1A-(Value)-ND	2.70	2.03	1.58	1.49	MTL-1A-xxx-1%
MTL-2B	.005 ~ .08	1%	3	14.7	5.1	16.9	20	MTL-2B-(Value)-ND	2.76	2.07	1.61	1.52	MTL-2B-xxx-1%
MTL-3	.005 ~ .08	1%	4	15.2	6.4	17.1	20	MTL-3-(Value)-ND	2.85	2.14	1.67	1.57	MTL-3-xxx-1%
MTL-5	.005 ~ .08	1%	5	22.6	8.5	20.8	18	MTL-5-(Value)-ND	3.00	2.25	1.75	1.65	MTL-5-xxx-1%

RESISTANCE VALUE CHART

.005	.01	.02	.03	.05	.07	.08

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value). **Lead Diameter: 20 AWG = 0.81mm (0.032"); 22 AWG = 6.4mm (0.25")

NEW! Capacitor Mount Silicone Resistors
16, 20, 22 Watt, 5%

RESISTANCE VALUE CHART

2K	5K	10K	20K	25K	30K	35K

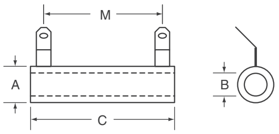

Series	Resistance Range (Ω)	Resistance Tolerance	Watt	Dimensions (mm) A	B	C	M	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
CMS-16	2K ~ 35K	5%	16	14.29	7.94	31.75	22.22	CMS-16-(Value)-ND	5.00	4.00	3.30	3.10	CMS-16-xxx-5%
CMS-20	2K ~ 35K	5%	20	14.29	7.94	44.45	28.57	CMS-20-(Value)-ND	5.63	4.50	3.72	3.49	CMS-20-xxx-5%
CMS-22	2K ~ 35K	5%	22	14.29	7.94	44.45	28.57	CMS-22-(Value)-ND	5.88	4.70	3.88	3.65	CMS-22-xxx-5%

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value).

NEW! Printed Circuit Board Mount Silicone Resistors
7, 10, 20 Watt, 5%

Quick and easy installation with built-in standoffs to keep the printed circuit board cool, make this a superior resistor for application where the resistor is to be mounted directly onto a board.

Specifications:
• Temperature Coefficient: 0 ±400 ppm/°C 1Ω, 0 ±260 ppm/°C 20Ω or above • Dielectric Withstanding Voltage: 500 VAC • Terminals: .025 x 0.35 pre-tinned rectangular pin (Recommend .078" diameter hole for mounting) • Coating: Silicone • Overload: 10 x rated power for 5 seconds • Core: Steatite ceramic

RESISTANCE VALUE CHART

.1	10	250	5K
.5	25	500	
1	50	1K	
5	100	2.5K	

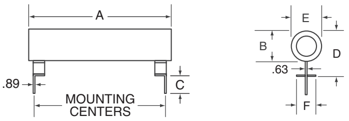

Type	Resistance Range (Ω)	Resistance Tolerance (%)	Watts	Mounting Centers Standard	Dimensions (mm) Core A	Core B	Typ. C	Max. D	Max. E	Max. F	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
FS-5	.1 ~ 5K	5	7	15.24	25.40	7.94	3.81	15.24	10.41	12.70	FS-5-(Value)-ND	4.38	3.50	2.89	2.72	FS-5-xxx-5%
FS-10	.1 ~ 5K	5	10	33.02	44.45	7.94	3.81	15.24	10.41	12.70	FS-10-(Value)-ND	5.00	4.00	3.30	3.10	FS-10-xxx-5%
FS-20	.1 ~ 5K	5	20	43.18	50.80	11.11	5.08	18.40	13.49	13.49	FS-20-(Value)-ND	5.63	4.50	3.72	3.49	FS-20-xxx-5%
FS-20S	.1 ~ 5K	5	20	55.88	60.32	11.11	5.08	18.40	13.49	13.49	FS-20S-(Value)-ND	5.63	4.50	3.72	3.49	FS-20S-xxx-5%

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value).

NEW! Metal Case Resistors 20, 40, 50 Watts, 10%
12M Series

RESISTANCE VALUE CHART

1	10	25	100	500

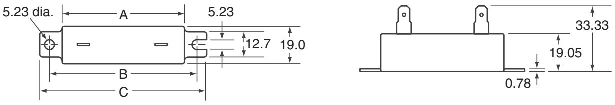

Series	Resistance Range (Ω)	Resistance Tolerance (%)	Watts Without Heatsink	Dimensions (mm) A	B	C	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
12M16	1 ~ 500	10	20	25.4	36.5	47.6	12M16-(Value)-ND	10.69	8.32	7.13	6.89	12M16-X
12M40	1 ~ 500	10	40	63.5	76.2	85.7	12M40-(Value)-ND	11.81	9.19	7.88	7.62	12M40-X
12M59	1 ~ 500	10	50	93.7	104.8	115.9	12M59-(Value)-ND	12.94	10.07	8.63	8.34	12M59-X

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value).

NEW! Audio Resistors — 1% MRA5 and MRA12 Series

Non-magnetic, non-inductive construction greatly enhances the frequency response

Specifications: • Meets or exceeds the specifications in MIL-R-26E for wirewound resistors • Meets the applicable specifications of MIL-STD-202, method 208 • Core: Alumina ceramic • Element: Nickel-chromium alloy • Leads: Tinned copper

RESISTANCE VALUE CHART
MRA5 Series

.22	.5	1K
.33	1	10K
.39	10	
.47	100	

RESISTANCE VALUE CHART
MRA12 Series

.5	2.5	5.0	10.0	30
1.0	3.0	6.0	12.5	47
1.5	3.5	7.0	15	100
2.0	4.0	8.0	20	1K

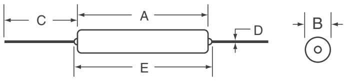

Series	Resistance Range (Ω)	Resistance Tolerance (%)	Dimensions (mm) A	B	C	D	E	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
MRA-5	.22 ~ 1	1	14.3	4.2	38.1	0.81	16.5	MRA05-(Value)-ND	2.37	1.81	1.51	1.38	MRA05-xxx-1%
	10 ~ 100							MRA05-(Value)-ND	2.83	2.17	1.80	1.65	MRA05-xxx-1%
	1K							MRA05-1K-ND	4.15	3.18	2.65	2.42	MRA05-1K-1%
	10K							MRA05-10K-ND	5.20	3.97	3.31	3.03	MRA05-10K-1%
MRA-12	.5 ~ 100	1	30.2	7.9	38.1	1.01	32.5	MRA12-(Value)-ND	4.84	3.70	3.08	2.82	MRA12-xxx-1%
	1K							MRA12-1K-ND	5.31	4.06	3.38	3.09	MRA12-1K-1%

* For complete part number, substitute Digi-Key value (from the Resistance Value Chart) for (Value).

NEW! Current Sensing Shunts
1%, 5%
MRS Series

MRS1298

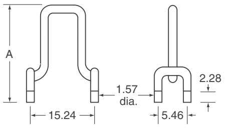

MRS1375 and MRS1510

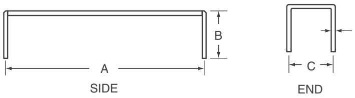

Series	Res. Value (Ω)	Res. Tol. (%)	Amps	Dimensions (mm) A	B	C	D	Digi-Key* Part No.	Price Each 1	10	50	100	Huntington Part No.
MRS1298	.010	1	25	17.78 Max.	—	—	—	MRS129801-1-ND	2.83	2.17	1.81	1.65	MRS129801-1%
	.005	1	25	17.78 Max.	—	—	—	MRS129802-1-ND	2.83	2.17	1.81	1.65	MRS129802-1%
	.001	1	25	10.16	—	—	—	MRS129804-1-ND	2.83	2.17	1.81	1.65	MRS129804-1%
	.010	5	25	17.78 Max.	—	—	—	MRS129801-5-ND	2.37	1.81	1.51	1.38	MRS129801-5%
	.005	5	25	17.78 Max.	—	—	—	MRS129802-5-ND	2.37	1.81	1.51	1.38	MRS129802-5%
	.001	5	25	10.16	—	—	—	MRS129804-5-ND	2.37	1.81	1.51	1.38	MRS129804-5%
MRS1375	.002	1	30	31.75	19.05 Max.	12.70	2.03	MRS137505-1-ND	5.78	4.41	3.68	3.36	MRS137505-1%
	.001	1	40	31.75	19.05 Max.	12.70	2.03	MRS137513-1-ND	5.78	4.41	3.68	3.36	MRS137513-1%
	.002	5	30	31.75	19.05 Max.	12.70	2.03	MRS137505-5-ND	4.81	3.68	3.07	2.80	MRS137505-5%
	.001	5	40	31.75	19.05 Max.	12.70	2.03	MRS137513-5-ND	4.81	3.68	3.07	2.80	MRS137513-5%
MRS1510	.001	1	40	25.4	12.70 Max.	7.62	2.06	MRS151004-1-ND	5.78	4.41	3.68	3.36	MRS151004-1%
	.001	5	40	25.4	12.70 Max.	7.62	2.06	MRS151004-5-ND	4.81	3.68	3.07	2.80	MRS151004-5%

HUNTINGTON ELECTRIC, INC.

Edgewound Resistors – 300, 1000 Watt

HEI Edgewound Resistors are designed for applications demanding maximum power dissipation in minimum space. Edgewounds are constructed of special alloy resistance wire, crimped, and wound on edge. High quality ceramic cores are used with a coating of either vitreous enamel or silicone to provide heat sink for short term overloads and maximum dissipation.

Specifications: • **Dielectric Withstanding Voltage:** Measured from terminals to brackets, 1000VAC • **Overload:** 10 X rated power for 5 seconds • **Tolerance:** ±10% • Wattage is based on 25°C free air rating.

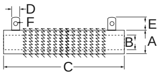

Series	A	(Core) B	C	D	(Terminal) E	F
FVE-300	28.58	19.05	215.90	7.94	15.88	254.00 - 812.80
AVE-300	28.58	19.05	215.90	7.94	15.88	254.00 - 812.80
FSE-1000	63.50	44.45	381.00	12.70	15.88	6.35 - 508.00

RESISTANCE VALUE CHART

FVE-300 Fixed			AVE-300 Adjustable				FSE-1000 Fixed		
.50	5.0	12	.10	.20	1.6	20	.25	3.5	15
1.2	8.0	16	.12	.80	8.0		.50	4.5	
2.0	10	20	.16	1.0	16		1.0	10	

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	10	25	Huntington* Part No.
.50 - 20	300	FVE300-(Value)-ND	16.48	14.81	12.54	FVE-300-(Value)
.10 - 20	300	AVE300-(Value)-ND	25.76	20.58	14.42	AVE-300-(Value)
.25 - 15	1000	FSE1000-(Value)-ND	51.50	46.35	—	FSE-1000-(Value)
FVE-300 and AVE-300 Mounting Kit		K1016-ND	9.75/1			K1016
FSE-1000 Mounting Kit		K3003-ND	16.69/1			K3003

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Aluminum Housed Chassis Mount Resistors – 5, 10, 25, 50 Watt, 1% (Precision Power Wirewound)

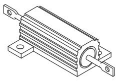

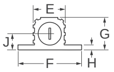

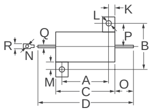

HEI's high-power aluminum housed resistors use centerless ground ceramic cores for uniform heat distribution. Molded in a special high temperature material and mounted in an extruded aluminum finned housing, these designs provide maximum power dissipation and reliability. They have tinned copperweld leads for solderability and meet or exceed MIL-R-18546, including "N" characteristic, and MIL-R-39009. **Specifications:** • Power Rating: Based on full power operation at 25°C, and maximum hotspot 275°C. • Mounting on proper heat sink as follows: For 5 and 10 Watt – use 4" x 6" x 2" x .040" (101.60 x 152.40 x 50.80 x 1.02mm) aluminum chassis; For 25 and 50 Watt – use 5" x 7" x 2" x .040" (127.00 x 177.80 x 50.80 x 1.02mm) aluminum chassis.

Electrical Specifications:

Series	TMC-5	TMC-10	TMC-25	TMC-50
MIL-R-39009/MIL-R-18546	RER-60/RE-60	RER-65/RE-65	RER-70/RE-70	RER-75/RE-75
HEI Power	7.5 Watts	12.5 Watts	25 Watts	50 Watts
MIL Power	5 Watts	10 Watts	20 Watts	30 Watts
Working Voltage	160	265	550	1250
Dielectric Strength	1000VAC	1000VAC	2500VAC	2500VAC

Series	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q AWG	R
TMC-5	11.40	12.57	16.03	30.15	8.86	16.79	8.51	1.91	3.81	2.24	2.49	2.36	1.40	8.33	7.01	16	2.97
TMC-10	14.40	16.00	19.84	36.50	11.30	20.70	10.54	2.16	5.08	2.62	2.49	2.97	2.31	9.50	8.71	12	4.37
TMC-25	18.39	19.96	27.76	50.80	13.84	27.81	14.61	2.41	6.86	4.62	3.30	3.56	2.31	12.70	10.72	12	4.37
TMC-50	39.83	21.56	50.77	72.21	16.00	29.34	16.00	2.41	7.87	5.23	3.30	3.56	2.31	12.70	11.51	12	4.37

RESISTANCE VALUE CHART

TMC-5			TMC-10			TMC-25			TMC-50				
.10	25	2.0K	.20	33	330	.10	20	500	.15	1.5	8.0	40	300
.50	30	10.0K	1.0	35	1.0K	1.0	25	1.0K	.20	2.0	10	50	500
1.0	100	15.0K	2.0	50	2.0K	2.0	40	2.0K	.25	2.5	12	75	1.0K
5.0	150		2.5	75	2.5K	3.0	100	3.0K	.30	3.3	16	100	1.5K
10	300		10	100	10.0K	12	200		.50	5.0	20	150	2.5K
12	390		25	300		15	300		1.0	6.0	30	250	5.0K

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	10	50	100	250	Huntington* Part No.
.10-15.0K	5	TMC5-(Value)-ND	3.37	2.87	2.37	2.03	1.86	TMC-5-(Value)-1%
.20-10.0K	10	TMC10-(Value)-ND	3.56	3.04	2.49	2.14	1.96	TMC-10-(Value)-1%
.10-3.0K	25	TMC25-(Value)-ND	4.98	4.25	3.49	2.99	2.76	TMC-25-(Value)-1%
.15-5.0K	50	TMC50-(Value)-ND	5.21	4.44	3.65	3.14	2.88	TMC-50-(Value)-1%

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Phoenix
Passive Components

1% and 5% Cemented Wirewound Resistors

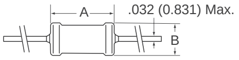

Type	A Max. (mm)	B Max. (mm)
PAC01	10	4.3
PAC03	17	5.5
PAC05	23	7.5
AC01	10	4.3
AC03	13	5.5
AC05	17	7.5
AC07	25	7.5

The resistor element is a resistive wire which is wound in a single layer on a ceramic rod. Metal caps are pressed over the ends of the rod. The ends of the resistance wire and the leads are connected to the caps by welding. Tinned copper-clad iron leads with poor heat conductivity are employed permitting the use of relatively short leads to obtain stable mounting without overheating the solder joint. The resistor is coated with a green silicon cement which is not resistant to aggressive fluxes. The coating is non-flammable, will not drip even at high overloads and is resistant to most commonly used cleaning solvents, in accordance with MIL-STD-202E, method 215 and IEC 60068-2-45.

Characteristics: PAC: • Resistance Tolerance: ±1% • Temperature Coefficient: ±100ppm/°C • Rated Dissipation at TAMB=25°C: 1W, 3W, 5W • Operating Temperature Range: -55°C ~ 200°C • Maximum Permissive Body Temperature: 275°C **AC:** • Resistance Tolerance: ±5% • Temperature Coefficient: <10Ω +600ppm/°C, >10Ω-80/+140ppm/°C • Rated Dissipation at TAMB=25°C: 1W, 3W, 5W, 7W • Operating Temperature Range: -40°C ~ 200°C • Maximum Permissive Body Temperature: 350°C

Value Range (Ω)	Wattage	Res. Tol.	Digi-Key* Part No.	Pricing 5	200	500	Digi-Key* Part No.	Tape & Box Pricing 500	1,000	5,000	10,000	Phoenix Passive Components Part No.
.10-.75, 1.0K-2.5K	1	1%	PPC1D(Value)CT-ND	13.68	208.80	288.00	PPC1D(Value)TB-ND	—	525.00	448.00/M	406.00/M	2306 327 5xxxx
1.0-910			PPC1D(Value)CT-ND	11.02	168.20	232.00	PPC1D(Value)TB-ND	—	420.00	358.40/M	324.80/M	2306 327 5xxxx
.10-.75, 1.0K-3.9K-5.0K	3	1%	PPC3D(Value)CT-ND	16.91	258.10	—	PPC3D(Value)TB-ND	326.25	556.80	504.60/M	452.40/M	2306 327 1xxxx
1.0-910			PPC3D(Value)CT-ND	14.63	223.30	—	PPC3D(Value)TB-ND	281.25	480.00	435.00/M	390.00/M	2306 327 1xxxx
.10-.75, 1.0K-10.0K	5	1%	PPC5D(Value)CT-ND	18.34	279.85	—	PPC5D(Value)TB-ND	354.38	604.80	548.10/M	491.40/M	2306 327 3xxxx
1.0-910			PPC5D(Value)CT-ND	16.72	255.20	—	PPC5D(Value)TB-ND	322.50	550.40	498.80/M	447.20/M	2306 327 3xxxx
.10-.75, 1.0K	1	5%	PPC1W(Value)CT-ND	8.27	126.15	174.00	PPC1W(Value)TB-ND	—	311.25	265.60/M	240.70/M	2306 328 33xxx
1.0-910, 1.1K-1.8K			PPC1W(Value)CT-ND	7.79	118.90	164.00	PPC1W(Value)TB-ND	—	292.50	249.60/M	226.20/M	2306 328 33xxx
2.0K-2.4K			PPC1W(Value)CT-ND	8.46	129.05	178.00	PPC1W(Value)TB-ND	—	318.75	272.00/M	246.50/M	2306 328 33xxx
.10-.75	3	5%	PPC3W(Value)CT-ND	9.60	146.45	—	PPC3W(Value)TB-ND	181.88	310.40	281.30/M	252.20/M	2322 329 03xxx
1.0-910			PPC3W(Value)CT-ND	9.12	139.20	—	PPC3W(Value)TB-ND	172.50	294.40	266.80/M	239.20/M	2322 329 03xxx
1.0K-5.0K			PPC3W(Value)CT-ND	11.78	179.80	—	PPC3W(Value)TB-ND	225.00	384.00	348.00/M	312.00/M	2322 329 03xxx
.10-.75	5	5%	PPC5W(Value)CT-ND	12.54	191.40	—	PPC5W(Value)TB-ND	240.00	409.60	371.20/M	332.80/M	2322 329 05xxx
1.0-1.0K			PPC5W(Value)CT-ND	9.79	149.35	—	PPC5W(Value)TB-ND	185.63	316.80	287.10/M	257.40/M	2322 329 05xxx
1.1K-10.0K			PPC5W(Value)CT-ND	12.92	197.20	—	PPC5W(Value)TB-ND	247.50	422.40	382.80/M	343.20/M	2322 329 05xxx
.10-.75	7	5%	PPC7W(Value)CT-ND	16.63	253.75	—	PPC7W(Value)TB-ND	320.63	547.20	495.90/M	444.60/M	2322 329 07xxx
1.0-910			PPC7W(Value)CT-ND	13.40	204.45	—	PPC7W(Value)TB-ND	256.88	438.40	397.30/M	356.20/M	2322 329 07xxx
1.0K-15.0K			PPC7W(Value)CT-ND	17.29	263.90	—	PPC7W(Value)TB-ND	333.75	569.60	516.20/M	462.80/M	2322 329 07xxx

* For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

1% PPC(X)D Resistance Values

1W			3W			5W			
.10	25.0	390	.10	25.0	390	.10	25.0	390	6.2K
.13	27.0	470	.13	27.0	470	.13	27.0	470	6.8K
.15	30.0	500	.15	30.0	500	.15	30.0	500	7.5K
.20	33.0	560	.20	33.0	560	.20	33.0	560	8.2K
.25	36.0	620	.25	36.0	620	.25	36.0	620	9.1K
.30	39.0	680	.30	39.0	680	.30	39.0	680	10.0K
.33	47.0	750	.33	47.0	750	.33	47.0	750	
.47	50.0	820	.47	50.0	820	.47	50.0	820	
.50	56.0	910	.50	56.0	910	.50	56.0	910	
.75	68.0	1.0K	.75	68.0	1.0K	.75	68.0	1.0K	
1.0	75.0	1.1K	1.0	75.0	1.1K	1.0	75.0	1.1K	
1.5	82.0	1.2K	1.5	82.0	1.2K	1.5	82.0	1.2K	
2.0	100	1.5K	2.0	100	1.5K	2.0	100	1.5K	
3.0	120	1.8K	3.0	120	1.8K	3.0	120	1.8K	
3.9	124	2.0K	3.9	124	2.0K	3.9	124	2.0K	
4.7	150	2.2K	4.7	150	2.2K	4.7	150	2.2K	
5.0	180	2.5K	5.0	180	2.5K	5.0	180	2.5K	
7.5	200		7.5	200	2.7K	7.5	200	2.7K	
10.0	220		10.0	220	3.0K	10.0	220	3.0K	
12.0	250		12.0	250	3.6K	12.0	250	3.6K	
15.0	270		15.0	270	3.9K	15.0	270	3.9K	
18.0	300		18.0	300	4.7K	18.0	300	4.7K	
20.0	330		20.0	330	5.0K	20.0	330	5.0K	
22.0	360		22.0	360		22.0	360	5.6K	

5% PPC(X)W Resistance Values

1W			3W			5W				7W			
.10	30.0	560	.10	30.0	560	.10	30.0	560	8.2K	.10	30.0	560	8.2K
.13	33.0	620	.13	33.0	620	.13	33.0	620	9.1K	.13	33.0	620	9.1K
.15	36.0	680	.15	36.0	680	.15	36.0	680	10.0K	.15	36.0	680	10.0K
.20	39.0	750	.20	39.0	750	.20	39.0	750		.20	39.0	750	11.0K
.24	43.0	820	.24	43.0	820	.24	43.0	820		.24	43.0	820	12.0K
.30	47.0	910	.30	47.0	910	.30	47.0	910		.30	47.0	910	13.0K
.33	50.0	1.0K	.33	50.0	1.0K	.33	50.0	1.0K		.33	50.0	1.0K	15.0K
.47	56.0	1.1K	.47	56.0	1.1K	.47	56.0	1.1K		.47	56.0	1.1K	
.50	68.0	1.2K	.50	68.0	1.2K	.50	68.0	1.2K		.50	68.0	1.2K	
.75	75.0	1.5K	.75	75.0	1.5K	.75	75.0	1.5K		.75	75.0	1.5K	
1.0	82.0	1.8K	1.0	82.0	1.8K	1.0	82.0	1.8K		1.0	82.0	1.8K	
1.5	100	2.0K	1.5	100	2.0K	1.5	100	2.0K		1.5	100	2.0K	
2.0	120	2.2K	2.0	120	2.2K	2.0	120	2.2K		2.0	120	2.2K	
3.0	150	2.4K	3.0	150	2.4K	3.0	150	2.4K		3.0	150	2.4K	
3.9	180		3.9	180	2.7K	3.9	180	2.7K		3.9	180	2.7K	
4.7	200		4.7	200	3.0K	4.7	200	3.0K		4.7	200	3.0K	
5.0	220		5.0	220	3.3K	5.0	220	3.3K		5.0	220	3.3K	
7.5	240		7.5	240	3.6K	7.5	240	3.6K		7.5	240	3.6K	
10.0	270		10.0	270	3.9K	10.0	270	3.9K		10.0	270	3.9K	
12.0	300		12.0	300	4.3K	12.0	300	4.3K		12.0	300	4.3K	
15.0	330		15.0	330	4.7K	15.0	330	4.7K		15.0	330	4.7K	
18.0	360		18.0	360	5.0K	18.0	360	5.0K		18.0	360	5.0K	
20.0	390		20.0	390		20.0	390	5.6K		20.0	390	5.6K	
22.0	430		22.0	430		22.0	430	6.2K		22.0	430	6.2K	
24.0	470		24.0	470		24.0	470	6.8K		24.0	470	6.8K	
27.0	500		27.0	500		27.0	500	7.5K		27.0	500	7.5K	

Macrochip SMD Precision Thick Film Resistors

MacroChip resistors bring precision high voltage capabilities to the surface mount level. Designed with thick film on alumina substrate technology. The planar package design is low profile for easy use with instrumentation, medical equipment, voltage regulators, and power supplies.

Features: • Non-inductive design • Low voltage coefficient • Surface mount • Pd Ag terminations
Material: • Resistor: Thick film on Alumina substrate
Electrical: • Power at 25°C Ambient: 1.0W • Voltage Rating: 5.0KV • Operating Temperature: -55°C ~ 180°C

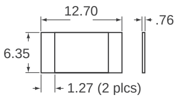

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key* Part No.	Price Each 1	10	50	100	200
1K - 50M	1	5%	MC102J-(Value)-ND	4.16	2.78	2.22	1.67	1.39
			RoHS Compliant					
1K - 50M	1	5%	MC102JE-(Value)-ND	4.16	2.78	2.22	1.67	1.39

*For complete part number, substitute Digi-Key value from Resistance Value Chart for (Value). ◊ Not available in RoHS Compliant

RESISTANCE VALUE CHART

Value	Value	Value
1K	50K	1.25M
2.5K◊	75K◊	1.5M◊
5K◊	100K	1.75M◊
7.5K◊	125K◊	2M
10K	150K◊	2.5M
12.5K◊	200K◊	5M
15K◊	250K	10M
17.5K	500K	25M
20K	750K	50M
25K	1M	

SMD Wirewound Power Resistors — RW Series

1, 1.5, 2, 3 and 3.5 Watt

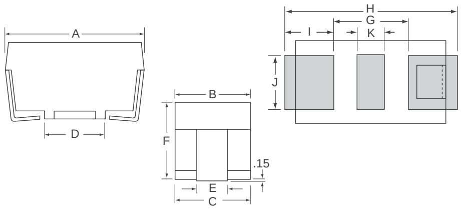

RESISTANCE VALUE CHART

RW1S0BA( )F 1%	RW1S0BA( )J 5%		RW1S5CA( )J 5%	RW2R0DA( )J 5%	RW2S0CB( )J 5%	RW2S0DA( )J 5%	RW3R0DB( )J 5%		RW3R5EA( )J 5%
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.010 (R010)	.005 (R005)	.100 (R100)	.005 (R005)	.005 (R005)◊	.005 (R005)	1.0 (1R00)	.005 (R005)	5.0 (5R00)	.010 (R010)
.015 (R015)	.010 (R010)	.150 (R150)	.010 (R010)	.010 (R010)	.010 (R010)	5.0 (5R00)	.010 (R010)	10.0 (10R0)	.020 (R020)
.020 (R020)	.015 (R015)	.200 (R200)	.015 (R015)	.015 (R015)	.020 (R020)	10.0 (10R0)	.015 (R015)	15.0 (15R0)	.025 (R025)◊
.030 (R030)	.020 (R020)	.240 (R240)	.030 (R030)◊	.020 (R020)	.030 (R030)	15.0 (15R0)	.025 (R025)	24.0 (24R0)	.030 (R030)
.033 (R033)	.024 (R024)	.300 (R300)	.040 (R040)	.025 (R025)	.050 (R050)	24.0 (24R0)	.036 (R036)◊	47.0 (47R0)	.036 (R036)◊
.039 (R039)	.027 (R027)	.360 (R360)	.080 (R080)	.030 (R030)	.150 (R150)	47.0 (47R0)	.050 (R050)	68.0 (68R0)	.050 (R050)
.047 (R047)	.030 (R030)	.470 (R470)	.100 (R100)◊	.050 (R050)	.200 (R200)	68.0 (68R0)	.075 (R075)	100.0 (100R)	.100 (R100)
.050 (R050)	.036 (R036)	.680 (R680)	.150 (R150)	.100 (R100)	.300 (R300)	100.0 (100R)	.100 (R100)	150.0 (150R)	.200 (R200)
.100 (R100)	.050 (R050)	.750 (R750)	.200 (R200)◊	.470 (R470)	.500 (R500)	150.0 (150R)	.500 (R500)		.500 (R500)
	.075 (R075)	1.00 (1R00)	.500 (R500)	1.00 (1R00)	1.00 (1R00)		1.00 (1R00)		1.00 (1R00)

Electrical Specifications

	RW1S0BA	RW1S5CA	RW2S0CB	RW2R0DA	RW2S0DA	RW3R0DB	RW3R5EA
Power at 25°C Ambient	1 Watt	1.5 Watt	2 Watt	2 Watt	2 Watt	3 Watt	3.5 Watt
Max. Voltage	50	75	100	100	100	200	350
Temperature Coefficient	0.1 ~ 1Ω — ±90 ppm/°C 5 ~ 10Ω — ±50 ppm/°C 15 ohms and over — ±20 ppm/°C						
Dielectric Withstanding Voltage	1000V						

Maximum Dimensions (mm)

Series	A	B	C	D	E	F	G	H	I	J	K
RW1S0BA	6.76	3.58	3.38 Ref.	3.05	1.63	3.58	3.81	8.79	2.49	3.20	1.27
RW1S5CA	10.52	4.17	3.96 Ref.	5.84	2.24	4.17	6.50	13.31	3.40	3.20	1.52
RW2S0CB	10.85	5.87	5.64 Ref.	6.86	2.46	5.77	7.01	13.64	3.33	3.20	2.36
RW2R0DA	12.06	6.22	5.99 Ref.	6.86	3.94	5.87	8.05	14.86	3.40	3.94	2.36
RW2S0DA	12.06	6.22	5.99 Ref.	6.86	3.94	5.87	8.05	14.86	3.40	3.94	2.36
RW3R0DB	16.05	7.06	6.81 Ref.	10.85	3.94	5.87	12.04	18.85	3.40	3.94	2.36
RW3R5EA	21.11	7.06	6.81 Ref.	14.78	3.94	6.98	15.52	25.40	4.95	3.94	2.36

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key* Part No.	Bulk Price Each 1	100	500	Digi-Key* Part No.	Tape & Reel Pricing 750	1,000	1,500	2,000
.015 - .050	1	1%	RW1S0BA(Code)FBK-ND	2.53	2.10	1.79	RW1S0BA(Code)FTR-ND	—	—	—	1680.00/M
.100	1	1%	RW1S0BAR100FBK-ND	3.22	2.68	2.53	RW1S0BAR100FTR-ND	—	—	—	2140.00/M
.005 - .050	1	5%	RW1S0BA(Code)JBK-ND	2.05	1.70	1.45	RW1S0BA(Code)JTR-ND	—	—	—	1360.00/M
.150- 1.00	1	5%	RW1S0BA(Code)JBK-ND	2.48	2.06	1.75	RW1S0BA(Code)JTR-ND	—	—	—	1650.01/M
.005 - .040	1.5	5%	RW1S5CA(Code)JBK-ND	1.81	1.50	1.28	RW1S5CA(Code)JTR-ND	—	—	1200.00/M	—
.080 - .500	1.5	5%	RW1S5CA(Code)JBK-ND	2.39	1.98	1.68	RW1S5CA(Code)JTR-ND	—	—	1580.00/M	—
.050	2	1%	—	—	—	—	RW2R0DAR050FTR-ND	—	1420.00	—	—
.005 - .050	2	5%	RW2R0DA(Code)JBK-ND	1.87	1.55	1.32	RW2R0DA(Code)JTR-ND	—	1240.00	—	—
.100 - 1.00	2	5%	RW2R0DA(Code)JBK-ND	2.24	1.86	1.58	RW2R0DA(Code)JTR-ND	—	1490.00	—	—
.005 - 050	2	5%	RW2S0CB(Code)JBK-ND	1.79	1.49	1.27	RW2S0CB(Code)JTR-ND	—	1190.00	—	—
.200 - 1.00	2	5%	RW2S0CB(Code)JBK-ND	2.28	1.89	1.61	RW2S0CB(Code)JTR-ND	—	1510.00	—	—
1.0 - 150.0	2	5%	RW2S0DA(Code)JBK-ND	2.24	1.86	1.58	RW2S0DA(Code)JTR-ND	—	1490.00	—	—
.005 - .050	3	5%	RW3R0DB(Code)JBK-ND	2.15	1.78	1.51	RW3R0DB(Code)JTR-ND	—	1420.00	—	—
.075 - 150.0	3	5%	RW3R0DB(Code)JBK-ND	2.42	2.01	1.71	RW3R0DB(Code)JTR-ND	—	1610.00	—	—
.010 - .050	3.5	5%	RW3R5EA(Code)JBK-ND	2.28	1.89	1.61	RW3R5EA(Code)JTR-ND	1132.50	—	—	—
.100 - 1.00	3.5	5%	RW3R5EA(Code)JBK-ND	2.42	2.02	1.72	RW3R5EA(Code)JTR-ND	1215.00	—	—	—
					RoHS Compliant						
.010 - .050	1	1%	RW1S0BA(Code)FE-ND	2.53	2.10	1.79	RW1S0BA(Code)FETR-ND	—	—	—	1680.00/M
.100	1	1%	RW1S0BAR100FE-ND	3.22	2.68	2.28	RW1S0BAR100FETR-ND	—	—	—	2140.00/M
.005 - .050	1	5%	RW1S0BA(Code)JE-ND	2.05	1.70	1.45	RW1S0BA(Code)JETR-ND	—	—	—	1360.00/M
.075 - 1.00	1	5%	RW1S0BA(Code)JE-ND	2.48	2.06	1.75	RW1S0BA(Code)JETR-ND	—	—	—	1650.00/M
.005 - .040	1.5	5%	RW1S5CA(Code)JE-ND	1.81	1.50	1.28	RW1S5CA(Code)JETR-ND	—	—	1200.00/M	—
.080 - .500	1.5	5%	RW1S5CA(Code)JE-ND	2.39	1.98	1.68	RW1S5CA(Code)JETR-ND	—	—	1580.00/M	—
.050	2	1%	RW2R0DAR050FE-ND	2.13	1.77	1.50	RW2R0DAR050FETR-ND	—	1420.00	—	—
.010 - .050	2	5%	RW2R0DA(Code)JE-ND	1.87	1.55	1.32	RW2R0DA(Code)JETR-ND	—	1240.00	—	—
.100 - 1.00	2	5%	RW2R0DA(Code)JE-ND	2.24	1.86	1.58	RW2R0DA(Code)JETR-ND	—	1490.00	—	—
.005 - 050	2	5%	RW2S0CB(Code)JE-ND	1.79	1.49	1.27	RW2S0CB(Code)JETR-ND	—	1190.00	—	—
.150 - 1.00	2	5%	RW2S0CB(Code)JE-ND	2.28	1.89	1.61	RW2S0CB(Code)JETR-ND	—	1510.00	—	—
1.0 - 150.0	2	5%	RW2S0DA(Code)JE-ND	2.24	1.86	1.58	RW2S0DA(Code)JETR-ND	—	1490.00	—	—
.005 - .050	3	5%	RW3R0DB(Code)JE-ND	2.15	1.78	1.51	RW3R0DB(Code)JETR-ND	—	1420.00	—	—
.075 - 150.0	3	5%	RW3R0DB(Code)JE-ND	2.42	2.01	1.71	RW3R0DB(Code)JETR-ND	—	1610.00	—	—
.010 - .050	3.5	5%	RW3R5EA(Code)JE-ND	2.28	1.89	1.61	RW3R5EA(Code)JETR-ND	1132.50	—	—	—
.100 - 1.00	3.5	5%	RW3R5EA(Code)JE-ND	2.42	2.02	1.72	RW3R5EA(Code)JETR-ND	1215.00	—	—	—

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

SMD Carbon Composition Power Resistors — RC Series

.25, .50 and 1 Watt

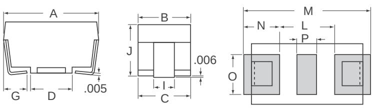

Electrical Specifications

	RC0S2CA	RC0R5DB	RC1R0EA
Power at 25°C Ambient Max. Voltage	.25 Watt 250	.50 Watt 350	1 Watt 500
Temperature Coefficient	RC0S2CA and RC0R5DB: ±400 ppm/°C RC1R0EA: -1300(±300) ppm/°C		
Dielectric Withstanding Voltage	1000V		

Series	Maximum Dimensions (mm)											
	A	B	C	D	G	I	J	L	M	N	O	P
RC0S2CA	10.008	4.039	3.962 Ref.	5.588	1.575	1.981	4.038	6.50	13.31	3.40	3.20	1.52
RC0R5DB	15.875	6.934	6.807 Ref.	10.592	1.575	3.632	5.740	12.04	18.85	3.40	3.94	2.36
RC1R0EA	20.599	6.934	6.807 Ref.	14.529	2.362	3.632	6.934	15.52	25.4	4.95	3.94	2.36

RESISTANCE VALUE CHART

RC0S2CA Value (Code)	RC0R5DB Value (Code)	RC1R0EA Value (Code)
4.7 (4R70)◊	2.7 (2R70)	3.3 (3R30)
6.8 (6R80)◊	7.5 (7R50)◊	4.7 (4R70)
10 (10R0)	15 (15R0)◊	6.8 (6R80)◊
15 (15R0)◊	24 (24R0)◊	8.2 (8R20)◊
20 (20R0)◊	39 (39R0)	10 (10R0)
30 (30R0)◊	56 (56R0)◊	15 (15R0)
47 (47R0)	75 (75R0)	22 (22R0)
68 (68R0)	100 (100R)	33 (33R0)
100 (100R)◊	150 (150R)	47 (47R0)
470 (470R)◊	270 (270R)◊	68 (68R0)◊
1.0K (1K00)	360 (360R)	100 (100R)
	560 (560R)	
	750 (750R)◊	
	1.0K (1K00)	

Resistance Range (Ω)	Wattage	Tolerance	Type	Digi-Key* Part No.	Bulk Price Each 1	100	500	Digi-Key* Part No.	Tape and Pricing 750	1,000	1,500
4.7 - 1.0K	.25	±5%	Carbon Comp	RC0S2CA(Code)JBK-ND	1.33	1.12	.96	RC0S2CA(Code)JTR-ND	—	—	936.00/M
2.7 - 1.0K	.50	±5%	Carbon Comp	RC0R5DB(Code)JBK-ND	1.67	1.40	1.20	RC0R5DB(Code)JTR-ND	—	1170.00	—
4.7 - 100	1	±10%	Ceramic Comp	RC1R0EA(Code)KBK-ND	1.81	1.52	1.31	RC1R0EA(Code)KTR-ND	955.50	—	—
RoHS Compliant											
10 - 1.0K	.25	±5%	Carbon Comp	RC0S2CA(Code)JE-ND	1.33	1.12	.96	RC0S2CA(Code)JETR-ND	—	—	936.00/M
2.7 - 1.0K	.50	±5%	Carbon Comp	RC0R5DB(Code)JE-ND	1.67	1.40	1.20	RC0R5DB(Code)JETR-ND	—	1170.00	—
3.3 - 100	1	±10%	Ceramic Comp	RC1R0EA(Code)KE-ND	1.81	1.52	1.31	RC1R0EA(Code)KETR-ND	955.50	—	—

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

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OX / OY Resistor Series - Ceramic Composition

Features: • Replaces 1 and 2 watt carbon composition resistors • Meets high energy density demands • High peak power • 10% Tolerance **Material:** • Terminals: Solder-coated axial leads • Coating: UL-94 V0 approved silicone **Derating:** • Linear from 100% @ 70°C ~ 0% @ 200°C **Electrical:** • Resistance Tolerance: ±10% standard • Power Rating: Based on 70°C free air rating • Temperature Coefficient: -1300 ±300ppm/°C • Dielectric Withstanding Voltage: 500VAC (750VAC for OY Series) • Joules Maximum (For a single impulse): 50 (80 for OY Series)

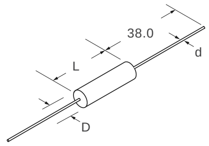

Series	Maximum Dimensions Inch (mm) D	L	d
OX	.256 (6.5)	.649 (16.5)	.030 (.81)
OY	.315 (8.0)	.787 (20.0)	.030 (.81)

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
3.3 (33GK)	47 (470K)	680 (681K)	10K (103K)	150K (154K)
3.9 (39GK)	56 (560K)	820 (821K)	12K (123K)◊	180K (184K)
4.7 (47GK)	68 (680K)	1K (102K)	15K (153K)	220K (224K)
5.6 (56GK)	82 (820K)	1.2K (122K)	18K (183K)‡	270K (274K)
6.8 (68GK)	100 (101K)	1.5K (152K)	22K (223K)	330K (334K)
8.2 (82GK)	120 (121K)	1.8K (182K)	27K (273K)	390K (394K)
10 (100K)	150 (151K)	2.2K (222K)	33K (333K)	470K (474K)
12 (120K)	180 (181K)	2.7K (272K)	39K (393K)‡	560K (564K)
15 (150K)	220 (221K)	3.3K (332K)	47K (473K)	680K (684K)
18 (180K)	270 (271K)	3.9K (392K)	56K (563K)	820K (824K)
22 (220K)	330 (331K)	4.7K (472K)	68K (683K)	1MEG (105K)
27 (270K)	390 (391K)	5.6K (562K)	82K (823K)‡	
33 (330K)	470 (471K)	6.8K (682K)‡	100K (104K)	
39 (390K)	560 (561K)	8.2K (822K)	120K (124K)	

Resistance Range (Ω)	Watt-age	Joules Max.**	Digi-Key* Part No.	Price Each 1	100	1,000
3.9 ~ 100	1	50	OX(Code)-ND	.77	.62	.50
150 ~ 100K	1	50	OX(Code)-ND	.76	.61	.49
3.9 ~ 100	2	80	OY(Code)-ND	1.07	.86	.70
120 ~ 100K	2	80	OY(Code)-ND	1.00	.80	.65
120K ~ 1M	2	80	OY(Code)-ND	1.17	.93	.76
RoHS Compliant						
3.3 ~ 5.6, 8.2 ~ 12	1	50	OX(Code)E-ND	.77	.62	.50
18 ~ 100, 120 ~ 10K,	1	50	OX(Code)E-ND	.85	.69	.56
15K ~ 100K	1	50	OX(Code)E-ND	.79	.63	.51
3.3 ~ 6.8, 10 ~ 100, 120 ~ 1K	2	80	OY(Code)E-ND	1.11	.89	.73
1.5K ~ 10K, 15K ~ 100K	2	80	OY(Code)E-ND	1.04	.83	.68
120K, 150K, 220K ~ 1M	2	80	OY(Code)E-ND	1.22	.97	.79

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ** For a single impulse. ‡ Not available in OX Series RoHS Compliant ◊ Not available in RoHS Compliant

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Little Demon® Carbon Composition Molded Resistors

OD Series, OF Series and OA Series

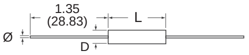

Little Demons are small, reliable carbon composition resistors with exceptional strength. They are made tough by a molding process that combines the leads, insulation and resistive element into an integrated unit. Along with their small size, Little Demons perform with low noise, dissipate heat rapidly and offer high temperature stability. Color codes are readable even after prolonged use, thanks to a very durable coating that resists abrasions and chipping normally associated with automatic insertion equipment.

Features: • Molded insulation for high dielectric strength • Rugged construction • High surge capabilities • Comparable to “Mil” RC07, RC20, and RC32 types

Material: • Terminals: Solder-coated copper lead • Body: Molded Phenolic

Electrical: • Derating: Linearly from 100% @ 70°C ~ 0% @ 130°C

Series	Maximum Dimensions Inch (mm) L	D	ø
OD	0.276 (7.0)	0.098 (2.5)	.027 (.69)
OF	0.406 (10.3)	0.150 (3.8)	.029 (.75)
OA	0.591 (15.0)	0.236 (6.0)	.035 (.92)

OD SERIES
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GJ)	15 (150J)	120 (121J)	1.0K (102J)	10K (103J)	68K (683J)	560K (564J)
2.4 (24GJ)	18 (180J)	150 (151J)	1.2K (122J)	12K (123J)	75K (753J)	620K (624J)
2.7 (27GJ)	20 (200J)	180 (181J)	1.5K (152J)	15K (153J)	82K (823J)	680K (684J)
3.0 (30GJ)	22 (220J)	200 (201J)	1.8K (182J)	18K (183J)	100K (104J)	750K (754J)
3.3 (33GJ)	24 (240J)	220 (221J)	2.2K (222J)	20K (203J)	120K (124J)	820K (824J)
3.6 (36GJ)	27 (270J)	240 (241J)	2.4K (242J)	22K (223J)	150K (154J)	1.0M (105J)
3.9 (39GJ)	30 (300J)	270 (271J)	2.7K (272J)	24K (243J)◊	180K (184J)	1.5M (155J)
4.3 (43GJ)	33 (330J)	300 (301J)	3.0K (302J)	27K (273J)	200K (204J)	2.0M (205J)
4.7 (47GJ)	36 (360J)	330 (331J)	3.3K (332J)	30K (303J)◊	220K (224J)	2.4M (245J)
5.1 (51GJ)	39 (390J)	360 (361J)	3.6K (362J)	33K (333J)	270K (274J)	3.0M (305J)
5.6 (56GJ)	43 (430J)	390 (391J)	3.9K (392J)	36K (363J)	300K (304J)	3.6M (365J)
6.2 (62GJ)	47 (470J)	430 (431J)	4.3K (432J)	39K (393J)	330K (334J)	4.3M (435J)
6.8 (68GJ)	56 (560J)	470 (471J)	4.7K (472J)	43K (433J)	360K (364J)◊	4.7M (475J)
7.5 (75GJ)	62 (620J)	560 (561J)	5.6K (562J)	47K (473J)	390K (394J)	5.6M (565J)
8.2 (82GJ)	75 (750J)	620 (621J)	6.2K (622J)	51K (513J)	430K (434J)	
10 (100J)	82 (820J)	750 (751J)	7.5K (752J)	56K (563J)	470K (474J)	
12 (120J)	100 (101J)	820 (821J)	8.2K (822J)	62K (623J)	510K (514J)	

OF SERIES
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GJ)	18 (180J)	180 (181J)	1.8K (182J)	20K (203J)	150K (154J)	1.5M (155J)
2.4 (24GJ)	20 (200J)	200 (201J)	2.2K (222J)	22K (223J)	180K (184J)	2.0M (205J)
2.7 (27GJ)	22 (220J)	220 (221J)	2.4K (242J)	24K (243J)	200K (204J)	2.4M (245J)◊
3.0 (30GJ)	24 (240J)◊	240 (241J)	2.7K (272J)	27K (273J)	220K (224J)	3.0M (305J)
3.3 (33GJ)	27 (270J)	270 (271J)	3.0K (302J)	30K (303J)	270K (274J)	3.6M (365J)◊
3.6 (36GJ)◊	30 (300J)	300 (301J)	3.3K (332J)	33K (333J)	300K (304J)	4.3M (435J)◊
3.9 (39GJ)	33 (330J)	330 (331J)	3.6K (362J)◊	36K (363J)◊	330K (334J)	4.7M (475J)
4.3 (43GJ)	36 (360J)◊	360 (361J)	3.9K (392J)	39K (393J)	360K (364J)◊	5.6M (565J)
4.7 (47GJ)	39 (390J)	390 (391J)	4.3K (432J)	43K (433J)	390K (394J)◊	6.8M (685J)
5.1 (51GJ)	43 (430J)◊	430 (431J)	4.7K (472J)	47K (473J)	430K (434J)◊	7.5M (755J)
5.6 (56GJ)	47 (470J)	470 (471J)	5.6K (562J)	51K (513J)	470K (474J)	8.2M (825J)
6.2 (62GJ)◊	56 (560J)	560 (561J)	6.2K (622J)	56K (563J)	510K (514J)	10M (106J)
6.8 (68GJ)	62 (620J)	620 (621J)	7.5K (752J)◊	62K (623J)◊	560K (564J)	12M (126J)
7.5 (75GJ)	75 (750J)	750 (751J)	8.2K (822J)	68K (683J)	620K (624J)◊	15M (156J)
8.2 (82GJ)◊	82 (820J)	820 (821J)	10K (103J)	75K (753J)◊	680K (684J)	18M (186J)
10 (100J)	100 (101J)	1.0K (102J)	12K (123J)	82K (823J)	750K (754J)◊	20M (206J)
12 (120J)	120 (121J)	1.2K (122J)	15K (153J)	100K (104J)	820K (824J)◊	
15 (150J)	150 (151J)	1.5K (152J)	18K (183J)	120K (124J)	1.0M (105J)	

OA SERIES
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.2 (22GK)	27 (270K)	270 (271K)	2.7K (272K)	27K (273K)	270K (274K)
2.7 (27GK)	33 (330K)	330 (331K)	3.3K (332K)◊	33K (333K)	330K (334K)◊
3.3 (33GK)	39 (390K)	390 (391K)◊	3.9K (392K)	39K (393K)◊	390K (394K)◊
4.7 (47GK)	47 (470K)	470 (471K)	4.7K (472K)	47K (473K)	470K (474K)
5.6 (56GK)	56 (560K)	560 (561K)◊	5.6K (562K)◊	56K (563K)◊	560K (564K)
6.8 (68GK)◊	68 (680K)◊	680 (681K)	6.8K (682K)◊	68K (683K)◊	680K (684K)
8.2 (82GK)◊	82 (820K)	820 (821K)	8.2K (822K)◊	82K (823K)◊	820K (824K)◊
10 (100K)	100 (101K)	1.0K (102K)	10K (103K)	100K (104K)	1.0M (105K)
12 (120K)	120 (121K)	1.2K (122K)	12K (123K)	120K (124K)	
15 (150K)	150 (151K)	1.5K (152K)	15K (153K)	150K (154K)◊	
18 (180K)	180 (181K)	1.8K (182K)◊	18K (183K)	180K (184K)◊	
22 (220K)	220 (221K)	2.2K (222K)	22K (223K)	220K (224K)	

Resistance Range (Ω)	Wattage	Tolerance	Digi-Key* Part No.	Price Each 1	100	500
2.2 - 5.6M	.25	±5%	OD(Code)-ND	.42	.35	.32
3.0 - 20M	.50	±5%	OF(Code)-ND	.54	.45	.41
2.2 - 1.0M	1	±10%	OA(Code)-ND	1.92	1.75	1.58
RoHS Compliant						
2.2 - 5.6M	.25	±5%	OD(Code)E-ND	.42	.35	.32
2.2 - 20M	.50	±5%	OF(Code)E-ND	.54	.45	.41
2.2 - 1.0M	1	±10%	OA(Code)E-ND	1.92	1.75	1.58

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

Ceramic Composition Resistors

The “A” Series of non-inductive, ceramic composite resistors are designed for a variety of applications where high energy handling capabilities are crucial. Designed for use in motor drives, UPS and other power conversion systems, these resistors are ideal for any application which is subject to surges, high peak power, impulse energy or inrush current limiting.

Material Specifications:

- Resistance Element: Bulk Ceramic
- Terminals: Solder coated radial leads (axial lead version available upon request)
- Coating: UL94V0, solvent resistant epoxy

Electrical Specifications:

- Tolerance: ± 10% Standard
- Derating: Derates linearly from 100% @ 50°C to 0% @ 150°C
- Temperature Rise: 100°C @ 100% rated power, 50°C ambient

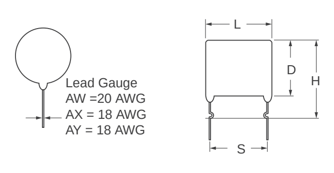

RESISTANCE VALUE CHART

AW Series Value (Code)	AX Series Value (Code)	AY Series Value (Code)
4.7 (47G)◊	1.0 (10G)	2.2 (22G)
6.8 (68G)◊	2.2 (22G)◊	3.3 (33G)
10 (100)◊	3.3 (33G)◊	4.7 (47G)
15 (150)	4.7 (47G)◊	10 (100)
22 (220)	10 (100)◊	15 (150)◊
33 (330)◊	22 (220)◊	22 (220)
47 (470)◊	33 (330)◊	33 (330)◊
56 (560)◊	47 (470)◊	39 (390)◊
68 (680)◊	68 (680)◊	47 (470)
100 (101)	100 (101)	68 (680)◊
		100 (101)

Series	Dimensions - Inch (mm) L Max.	 D Max.	 H Max.	 S Norm.
AW	.78 (20)	.51 (13)	.87 (22)	.69 (17.5)
AX	.59 (15)	.83 (21)	1.22 (31)	.49 (12.5)
AY	.98 (25)	.83 (21)	1.22 (31)	.89 (22.5)

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	 50	 250
4.7 - 100	2.5	AW(Code)K-ND	8.45	8.03	7.61
1.0 - 100	3.5	AX(Code)K-ND	9.25	8.79	8.33
2.2 - 100	4.5	AY(Code)K-ND	9.75	9.26	8.78
RoHS Compliant					
15 - 100	2.5	AW(Code)KE-ND	8.70	8.27	7.84
1.0 - 100	3.5	AX(Code)KE-ND	9.53	9.05	8.58
2.2 - 100	4.5	AY(Code)KE-ND	10.04	9.54	9.04

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

Heat Sink Mountable Thick Film Power Resistors

TAH20, TBH25, TCH35, Surface Mount — TDH35 and TEH70 Series

Dimensions in (mm)

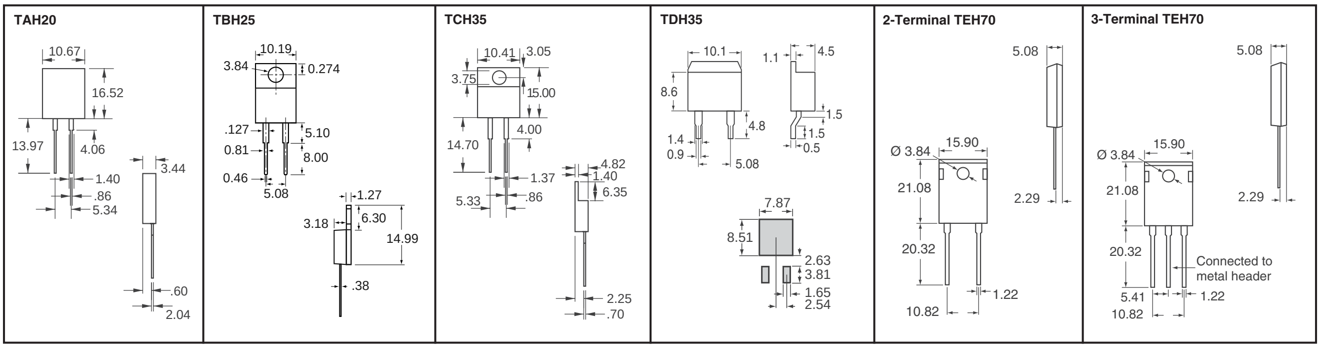

TAH20 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.05 (R050)	3.3 (3R30)◊	47 (47R0)◊	750 (750R)◊
.10 (R100)	3.9 (3R90)	51 (51R0)	1.0K (1K00)
.22 (R220)	5.6 (5R60)	75 (75R0)	2.7K (2K70)◊
.33 (R330)	7.5 (7R50)	100 (100R)	5.1K (5K10)
.51 (R510)	10 (10R0)	150 (150R)	10K (10K0)
1.0 (1R00)	15 (15R0)	220 (220R)	
1.5 (1R50)	22 (22R0)	470 (470R)	
2.2 (2R20)	33 (33R0)	510 (510R)	

TCH35 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R100)	3.3 (3R30)	47 (47R0)	750 (750R)◊
.22 (R220)	3.9 (3R90)	51 (51R0)	1.0K (1K00)
.33 (R330)	5.6 (5R60)	75 (75R0)	2.7K (2K70)
.51 (R510)	10 (10R0)	100 (100R)	5.1K (5K10)
1.0 (1R00)	15 (15R0)	150 (150R)	10K (10K0)
1.5 (1R50)	22 (22R0)	220 (220R)	
2.2 (2R20)	33 (33R0)	470 (470R)	
		510 (510R)	

TBH25 Series ◊
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
5.1 (5R10)	15 (15R0)	39 (39R0)	100 (100R)	1.5K (1K50)
5.6 (5R60)	22 (22R0)	47 (47R0)	150 (150R)	2.7 (2K70)
7.5 (7R50)	24 (24R0)	51 (51R0)	470 (470R)	
10 (10R0)	33 (33R0)	75 (75R0)	1.0K (1K00)	

TDH35 Series
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R100)	1.0 (1R00)	33 (33R0)	300 (300R)
.15 (R150)	2.0 (2R00)	39 (39R0)◊	500 (500R)
.20 (R200)	3.0 (3R00)	47 (47R0)	750 (750R)
.25 (R250)◊	5.0 (5R00)	68 (68R0)	1.0K (1K00)
.30 (R300)	7.5 (7R50)	75 (75R0)	1.5K (1K50)◊
.36 (R360)	10 (10R0)	100 (100R)	2.5K (2K50)
.47 (R470)◊	15 (15R0)	150 (150R)	3.0K (3K00)◊
.50 (R500)	20 (20R0)	200 (200R)	5.0K (5K00)
.75 (R750)	25 (25R0)	250 (250R)	

TEH70 Series (2- and 3-Terminal)
RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
2.0 (2R00)	47 (47R0)	1.0K (1K00)
3.0 (3R00)	68 (68R0)	1.5K (1K50)
4.0 (3R00)	75 (75R0)	2.0K (2K00)
7.5 (7R50)	100 (100R)	3.0K (3K00)
10 (10R0)	150 (150R)	5.0K (5K00)
15 (15R0)	270 (270R)	7.5K(7K50)
20 (20R0)	470 (470R)	10K (10K0)
24 (24R0)	680 (680R)	
33 (33R0)	750 (750R)	

Electrical Specifications:

Series	TAH20	TBH25	TCH35/TDH35	TEH70 (2-Terminal)	TEH70 (3-Terminal)
Resistance Tolerance	±5%	±5%	±5%	±5%	±5%
Maximum Operating Voltage	350V	350V	350V	500V	500V
Dielectric Strength	1800VAC	1000VDC	1800VAC	—	—
Insulation Resistance	10GΩ Min.	10GΩ Min.	10GΩ Min.	400MΩ	400MΩ
Power Rating	20W @ 25°C	25W @ 25°C	35W @ 25°C	70W @ 25°C	70W @ 25°C
Mounting	Requires use of a snap-on heat sink. A thermal compound should be properly applied.	Single screw mounting tab (with thermal compound recommended).	Single screw mounting tab (with thermal compound recommended). TDH35 (SMD)	Single screw mounted.	3-Terminal heat sink can be grounded through middle terminal.

Series	Resistance Range (Ω)	Digi-Key* Part No.	Price Each 1	 100	 250
TAH20	.33 ~ .51	TAH20P(Code)J-ND	6.73	5.38	4.57
	1.5 ~ 10K	TAH20P(Code)J-ND	5.50	4.39	3.73
TBH25	5.6 ~ 10	TBH25P(Code)J-ND	4.88	3.90	3.32
	15 ~ 2.7K	TBH25P(Code)J-ND	4.80	3.84	3.26
TCH35	150 ~ 10K	TCH35P(Code)J-ND	5.90	4.71	4.00
TDH35	.10 ~ .15	TDH35P(Code)J-ND	8.78	6.06	5.56
	.25 ~ .36	TDH35P(Code)J-ND	8.17	5.66	5.18
	.47 ~ .50	TDH35P(Code)J-ND	7.16	5.06	4.54
	.75 ~ 7.5	TDH35P(Code)J-ND	6.86	4.88	4.35
	20 ~ 5.0K	TDH35P(Code)J-ND	6.50	4.46	4.12
RoHS Compliant					
TAH20	.05 ~ .51	TAH20P(Code)JE-ND	6.73	5.38	4.57
	1.00 ~ 10K	TAH20P(Code)JE-ND	5.50	4.39	3.73
TCH35	.10 ~ .51	TCH35P(Code)JE-ND	7.78	6.21	5.28
	1.00 ~ 10K	TCH35P(Code)JE-ND	5.88	4.69	3.99
TDH35	.10 ~ .15	TDH35P(Code)JE-ND	8.78	6.06	5.56
	.20 ~ .36	TDH35P(Code)JE-ND	8.17	5.66	5.18
	.50	TDH35P(Code)JE-ND	7.16	5.06	4.54
	.75 ~ 7.5	TDH35P(Code)JE-ND	6.86	4.88	4.35
	10 ~ 5.0K	TDH35P(Code)JE-ND	6.50	4.46	4.12
TEH70 (2-Term.)	2.0 ~ 10K	TEH70M(Code)JE-ND	10.50	8.40	7.14
TEH70 (3-Term.)	2.0 ~ 10K	TEH70P(Code)JE-ND	10.00	8.00	6.80

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

High Energy Wirewound Resistors – 33J, 35J and 30J Series

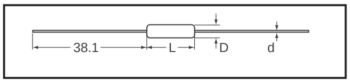

Specifications:
- Resistance Tolerance: ±5%
- Contact Type: 2 Leads - Axial

RESISTANCE VALUE CHART

33J Series Value (Code)	35J Series Value (Code)	30J Series Value (Code)
1.0 (1R0)	1.5 (1R5)	2.0 (2R0)
5.0 (5R0)◊	2.5 (2R5)◊	4.7 (4R7)◊
10 (10R)	7.5 (7R5)	6.8 (6R8)◊
15 (15R)	12 (12R)◊	15 (15R)
20 (20R)◊	18 (18R)◊	27 (27R)
25 (25R)	22 (22R)	33 (33R)
30 (30R)◊	36 (36R)	50 (50R)◊
50 (50R)	47 (47R)	82 (82R)◊
100 (100)	75 (75R)	100 (100)
		150 (150)

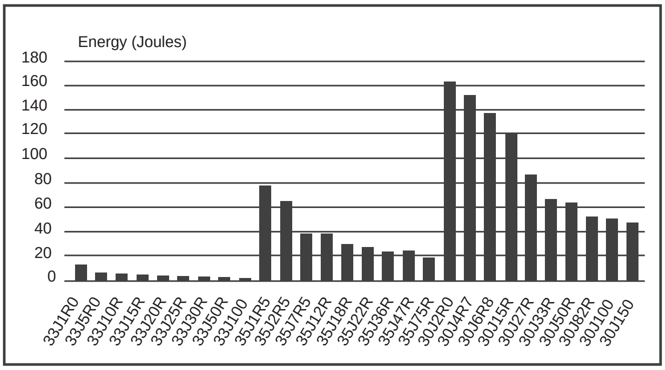

Resistance Range (Ω)	Power Watt	Voltage	Lead AWG	Dimensions (mm) d	D	L	Digi-Key* Part No.	Price Each 1	10	100
1.0 ~ 100	3.0	200	20	.032	5.5	15.1	33J(Code)-ND	1.08	.89	.79
1.5 ~ 75	5.0	460	18	.0403	8.7	23.8	35J(Code)-ND	1.22	1.00	.89
2.0 ~ 150	10.0	1000	18	.0403	10.3	41.7	30J(Code)-ND	1.58	1.30	1.16
RoHS Compliant										
1.0 ~ 100	3.0	200	20	.032	5.5	15.1	33J(Code)E-ND	1.13	.93	.83
1.5 ~ 75	5.0	460	18	.0403	8.7	23.8	35J(Code)E-ND	1.28	1.06	.93
2.0 ~ 150	10.0	1000	18	.0403	10.3	41.7	30J(Code)E-ND	1.67	1.37	1.22

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

Aluminum Housed Power Wirewound Resistors — WFH Series

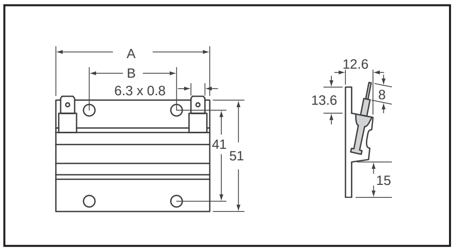

RESISTANCE VALUE CHARTS

WFH90L( )K Value (Code)	WFH90L( )J Value (Code)	WFH160L( )K Value (Code)	WFH160L( )J Value (Code)	WFH230L( )K Value (Code)	WFH230L( )J Value (Code)	WFH330L( )K Value (Code)	WFH330L( )J Value (Code)
4.7 (4R7)	25 (25R)	.47 (R47)	27 (27R)	1.0 (1R0)	27 (27R)	1.0 (1R0)	27 (27R)
10 (10R)	50 (50R)	1.0 (1R0)	50 (50R)	5.0 (5R0)	50 (50R)	2.0 (2R0)	50 (50R)
	100 (100)	2.0 (2R0)	75 (75R)	10 (10R)	75 (75R)	10 (10R)	75 (75R)
	470 (470)	10 (10R)	100 (100)		100 (100)		100 (100)
	750 (750)		150 (150)		150 (150)		150 (150)
	1.0K (1K0)		250 (250)		250 (250)		250 (250)
	2.7K (2K7)		1.0K (1K0)		1.0K (1K0)		1.0K (1K0)
	5.0K (5K0)		5.0K (5K0)		1.5K (1K5)		5.0K (5K0)
			10K (10K)		2.5K (2K5)		10K (10K)

Features:
- Ohmite's new flat core winding technology allows for wirewound heat sinkable resistors affording a very low profile and superior thermal transfer characteristics when compared to conventional aluminum housed wirewound resistors. • Close mounting of heat sensitive components is possible due to only a slight rise of the temperature on the aluminum profile. • No heat sink compound is required because of large mounting surface.

Specifications:
- Dielectric Strength: 2500VAC peak • Working Voltage: 1200VAC • Insulation: Silicone Rubber & Mica. The Silicone is UL-recognized (UL 94 HB) to a working temperature of 220°C. Temperatures of up to 300°C can be endured for shorter periods, however this may cause an expansion of the silicone rubber with a possibility of reducing the dielectric strength.

Note: *Please see data sheet for heat sink recommendations.*

Resistance Range (Ω)	Wattage	Tolerance %	Dimensions (mm) A	B	Digi-Key* Part No.	Price Each 1	25	100
4.7 ~ 10	90	±10	70	39.7	WFH90L(Code)K-ND	32.53	26.01	22.11
25 ~ 1.0K	90	±5	70	39.7	WFH90L(Code)J-ND	31.00	24.80	21.08
2.7K ~ 5.0K	90	±5	70	39.7	WFH90L(Code)J-ND	32.53	26.01	22.11
.47 ~ 10	160	±10	140	80	WFH160L(Code)K-ND	37.68	30.14	25.62
27 ~ 1.0K	160	±5	140	80	WFH160L(Code)J-ND	35.88	28.69	24.39
5.0K ~ 10K	160	±5	140	80	WFH160L(Code)J-ND	37.68	30.14	25.62
1.0 ~ 10	230	±10	210	2x 80	WFH230L(Code)K-ND	48.68	38.93	33.10
27 ~ 1.0K	230	±5	210	2x 80	WFH230L(Code)J-ND	46.35	37.10	31.53
1.5K ~ 2.5K	230	±5	210	2x 80	WFH230L(Code)J-ND	48.68	38.93	33.10
2.0 ~ 10	330	±10	280	2x 100	WFH330L(Code)K-ND	58.05	46.46	39.48
27 ~ 1.0K	330	±5	280	2x 100	WFH330L(Code)J-ND	55.43	44.33	37.68
5.0K ~ 10K	330	±5	280	2x 100	WFH330L(Code)J-ND	58.05	46.46	39.48
RoHS Compliant								
4.7 ~ 10	90	±10	70	39.7	WFH90L(Code)KE-ND	32.53	26.01	22.11
25 ~ 1.0K	90	±5	70	39.7	WFH90L(Code)JE-ND	31.00	24.80	21.08
2.7K ~ 5.0K	90	±5	70	39.7	WFH90L(Code)JE-ND	32.53	26.01	22.11
.47 ~ 10	160	±10	140	80	WFH160L(Code)KE-ND	37.68	30.14	25.62
27 ~ 1.0K	160	±5	140	80	WFH160L(Code)JE-ND	35.88	28.69	24.39
5.0K ~ 10K	160	±5	140	80	WFH160L(Code)JE-ND	37.68	30.14	25.62
1.0 ~ 10	230	±10	210	2x 80	WFH230L(Code)KE-ND	48.68	38.93	33.10
27 ~ 1.0K	230	±5	210	2x 80	WFH230L(Code)JE-ND	46.35	37.09	31.53
1.5K ~ 2.5K	230	±5	210	2x 80	WFH230L(Code)JE-ND	48.68	38.93	33.10
1.0 ~ 10	330	±10	280	2x 100	WFH330L(Code)KE-ND	52.78	42.23	35.89
27 ~ 1.0K	330	±5	280	2x 100	WFH330L(Code)JE-ND	55.43	44.33	37.68
5.0K ~ 10K	330	±5	280	2x 100	WFH330L(Code)JE-ND	58.05	46.45	39.48

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

OHMITE 89 Type - Aluminum Housed Axial Lead Wirewound Resistors

The 89 Type are high performance axial-lead-type resistors. They are better suited to withstand vibration, shock and harsh environmental conditions than standard axial-lead resistors. The 89 Type are aluminum housed to maintain high stability during operation and to permit secure mounting to chassis surfaces. The housing also provides heat-sinking capabilities. The 89 Type resistors meet or exceed MIL-R-18546 specifications.

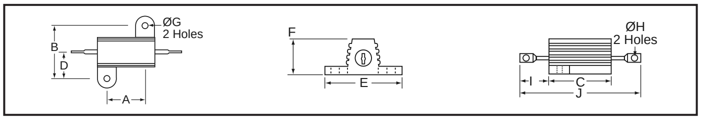

Watts	Maximum Dimensions (mm)									
	A	B	C	D	E	F	G	H	I	J
5	11.40	12.57	16.03	6.30	16.79	8.51	2.49	1.40	8.33	30.15
10	14.40	16.00	19.84	8.00	20.70	10.29	2.49	2.31	9.50	36.50
25	18.39	19.96	27.76	10.01	27.81	14.25	3.30	2.31	12.70	50.80
50	39.83	21.56	50.77	10.79	29.34	15.88	3.30	2.31	12.70	72.21

Electrical Specifications:

	5 Watt	10 Watt	25 Watt	50 Watt
Resistance Tolerance	±1%	±1%	±1%	±1%
Proper Heat Sink (mm) *	101.60 x 152.40 x 50.80 x 1.02 aluminum chassis		127.00 x 177.80 x 50.80 x 1.02 aluminum chassis	304.80 x 304.80 x 1.50 aluminum panel
Maximum Operating Voltage	210	320	520	1170
Overload	5 times rated power for 5 seconds			
Temperature Coefficient	Under 1Ω — ±90 ppm/°C 1Ω ~ 9.99Ω — ±50 ppm/°C 10Ω and over — ±20 ppm/°C			
Dielectric Withstanding Voltage	1000VAC	1000VAC	2500VAC	2500VAC

* Power rating is based on chassis mounting area and temperature stability.

RESISTANCE VALUE CHART

805F Series		810F Series		825F Series		850F Series	
Value (Code)	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**	**Value (Code)**
1.0 (1R0)	75 (75R)	1.0 (1R0)	250 (250)	.10 (R10)	100 (100)	.10 (R10)	150 (150)
2.0 (2R0)	100 (100)	2.0 (2R0)◊	500 (500)	1.0 (1R0)	150 (150)	1.0 (1R0)	250 (250)◊
5.0 (5R0)	150 (150)	5.0 (5R0)	750 (750)◊	2.0 (2R0)	250 (250)	2.0 (2R0)	500 (500)
7.5 (7R5)	250 (250)	10 (10R)	1.0K (1K0)◊	5.0 (5R0)	500 (500)	5.0 (5R0)	750 (750)
10 (10R)	500 (500)	15 (15R)	2.5K (2K5)◊	7.5 (7R5)	750 (750)	10 (10R)	1.0K (1K0)
15 (15R)	750 (750)◊	20 (20R)	5.0K (5K0)	10 (10R)	1.0K (1K0)	15 (15R)	2.5K (2K5)
25 (25R)	1.0K (1K0)◊	50 (50R)	10.0K (10K)	20 (20R)	2.5K (2K5)	25 (25R)	5.0K (5K0)
40 (40R)	2.5K (2K5)◊	75 (75R)	25.0K (25K)◊	25 (25R)	5.0K (5K0)◊	40 (40R)	10.0K (10K)
50 (50R)	5.0K (5K0)	100 (100)		50 (50R)	10.0K (10K)	50 (50R)	25.0K (25K)
				75 (75R)	25.0K (25K)	75 (75R)	100K (100K)
						100 (100)	

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	10	50	100
1.0 ~ 25	5	805F(Code)-ND	3.45	3.11	2.76	2.59
50 ~ 750	5	805F(Code)-ND	3.78	3.40	3.02	2.84
1.0K ~ 2.5K	5	805F(Code)-ND	4.69	4.22	3.75	3.52
5.0K	5	805F(Code)-ND	5.24	4.72	4.19	3.93
1.0 ~ 750	10	810F(Code)-ND	3.62	3.26	2.90	2.72
1.0K ~ 2.5K	10	810F(Code)-ND	4.00	3.60	3.20	3.00
5.0K	10	810F(Code)-ND	4.49	4.04	3.59	3.37
10.0K	10	810F(Code)-ND	5.15	4.64	4.12	3.86
25.0K	10	810F(Code)-ND	6.47	5.82	5.18	4.85
1.0 ~ 75	25	825F(Code)-ND	4.66	4.19	3.73	3.50
1.0K ~ 5.0K	25	825F(Code)-ND	5.38	4.84	4.30	4.04
25.0K	25	825F(Code)-ND	7.40	6.66	5.92	5.55
2.0 ~ 750	50	850F(Code)-ND	5.38	4.84	4.31	4.04
1.0K ~ 5.0K	50	850F(Code)-ND	6.09	5.48	4.87	4.57
25.0K	50	850F(Code)-ND	7.23	6.51	5.78	5.42
100K	50	850F(Code)-ND	9.81	8.83	7.85	7.36
RoHS Compliant						
1.0 ~ 25	5	805F(Code)E-ND	3.62	3.27	2.90	2.72
40 ~ 500	5	805F(Code)E-ND	3.97	3.57	3.17	2.98
5.0K	5	805F(Code)E-ND	5.50	4.96	4.40	4.13
1.0 ~ 500	10	810F(Code)E-ND	3.80	3.42	3.05	2.86
5.0K	10	810F(Code)E-ND	3.80	3.42	3.05	2.86
10.0K	10	810F(Code)E-ND	5.41	4.87	4.33	4.05
.10	25	825F(Code)E-ND	5.41	4.87	4.33	4.05
1.0 ~ 75	25	825F(Code)E-ND	4.89	4.40	3.92	3.68
100 ~ 750	25	825F(Code)E-ND	5.04	4.54	4.03	3.78
1.0K ~ 2.5K	25	825F(Code)E-ND	5.65	5.08	4.52	4.24
10.0K	25	825F(Code)E-ND	6.21	5.59	4.97	4.65
25.0K	25	825F(Code)E-ND	7.77	6.99	6.22	5.83
.10	50	850F(Code)E-ND	6.88	6.20	5.50	5.16
1.0 ~ 750	50	850F(Code)E-ND	5.65	5.08	4.52	4.24
1.0K ~ 5.0K	50	850F(Code)E-ND	6.39	5.75	5.11	4.80
10.0K	50	850F(Code)E-ND	6.74	6.07	5.40	5.06
25.0K	50	850F(Code)E-ND	7.59	6.84	6.07	5.69
100K	50	850F(Code)E-ND	10.30	9.27	8.24	7.73

TAP600 Heat Sinkable Planar Resistors - 600 Watt

TAP600 delivers 600 watts of reliable power to a variety of power conditioning, power transmission, and power control applications

Features:
- Dielectric Strength: Up to 12KV • Special Design for Low Inductive and Capacitance Values
- Easy termination to contacts with M5 screws • Calibrated Mounting simplifies assembly

Electrical Specifications:
- Resistance Tolerance: ±10% Standard • Maximum Operating Voltage: 5000VDC
- Power Rating: 600W at 70°C heat sink temperature
- Temperature Coefficient: ±150ppm/°C
- Operating Temperature Range: -55°C ~ 150°C
- Electric Strength Voltage: Up to 12000Vrms, 50HZ, 1 minute @ 500V • Insulation Resistance: 10GΩ minimum at 500V
- Air Distance: 14mm minimum • Inductance: ≤ 80nH

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	5.0 (5R0)	50 (50R)	1000 (1K0)
2.0 (2R0)	10 (10R)	75 (75R)	10000 (10K)
3.0 (3R0)	22 (22R	100 (100)	
4.0 (4R0)	30 (30R)	500 (500)	

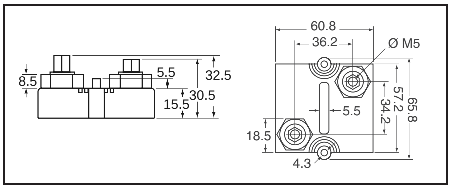

Resistance Range (Ω)	Digi-Key* Part No.	Price Each 1	10	25	50
1.0 ~ 10000 (See Chart)	TAP600K(Code)-ND	103.30	80.39	73.69	63.80
RoHS Compliant					
1.0 ~ 10000 (See Chart)	TAP600K(Code)E-ND	103.30	80.39	73.69	63.80

TAP1000 Heat Sinkable Planar Resistors - 1000 Watt

TAP1000 Series resistors deliver 1000 watts of continuous power with thick film on alumina substrate technology. Up to 30% smaller, the TAP1000 is capable of 2 to 4 times the power dissipation of traditional heat sinkable resistor technologies. Designed for use with liquid cooled heat sinks, TAP1000 resistors are capable of dissipating 1000 watts of continuous power when properly mounted (based on 70°C base temperature).

Offering the highest power available in a heat sinkable package, the TAP1000 is well suited for power conditioning, power distribution, power conversion and power control applications. Constructed of durable, lightweight materials, the TAP1000 package is easy to design and mount.

Features: • Dissipates 1000 Watts @ 70°C Mounting Plate Temperature • High Energy Rating • Low Inductance • Resistor Element Electrically Isolated • High Dielectric Strength • Small Footprint

Applications: • Power semiconductor balancing • Motor control • Inrush current limiting

Material Specifications: Resistor element - thick film on alumina substrate

Electrical Specifications: • Resistance Tolerance: ±10% Standard • Maximum Operating Voltage: 2000VDC • Power Rating: 1000W @70°C • Temperature Coefficient: ±250 ppm/°C • Dielectric Strength: 6KV • Operating Temperature Range: -55°C ~ 150°C

Case Specifications: • Terminal Screws (#10 - 32), Maximum Contacts Torque: 10 in-lb. • Mounting Screws (#8 - 32), Maximum Mounting Torque: 15 in-lb.

RESISTANCE VALUE CHART

Value (Code)
2.5 (2R50)
3.0 (3R00)
5.0 (5R00)
8.0 (8R00)
10 (10R0)
15 (15R0)
25 (25R0)
30 (30R0)
50 (50R0)

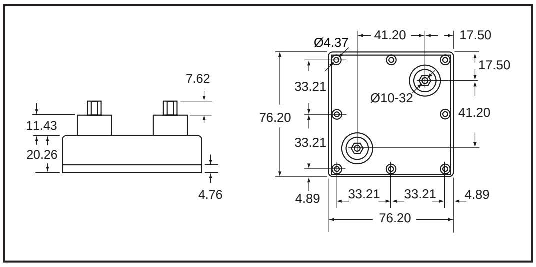

Resistance Range (Ω)	Digi-Key* Part No.	Price Each 1	10	25	50
2.5 ~ 50 (See Chart)	TA1K0PH(Code)K-ND	123.60	105.06	92.70	80.34
RoHS Compliant					
2.5 ~ 50 (See Chart)	TA1K0PH(Code)KE-ND	123.60	105.06	92.70	80.34

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

TL88 Series - Heat Sinkable Thick Film Power Resistors

The TL88 Series add heat sinkable options to the thick film resistor family. The resistor element is packaged with plastic insulators and quick-connect terminals in a symmetrical aluminum profile for easy heat sink mounting. Self-insulating package design increases voltage withstanding characteristics when compared to traditional aluminum housings. The in-line mounting profile makes the TL88 Series easily adaptable to most heat sink systems. Thermal compound is always recommended when heat sinking.

Features: • Very low inductance • In-Line Mounting Profile • 1/4" Quick connect terminals • Low profile design

Applications: • Semiconductor Balancing • Frequency Converters • In-Rush Current Limiter • Snubber • Bleeder Resistor • Power Switching • Voltage Dividers

Material Specifications: • Resistive Element: Thick film on alumina • Housing: Aluminum • Insulators: Glass reinforced high temperature Valox® • Terminals: Tinned brass

Electrical Specifications: • Tolerance: ± 10% Standard • Temperature Coefficient: ±250PPM • Working Voltage: 1200VAC • Temperature Limits: -40°C ~ 125°C • Air Distance, Terminal to Ground: 7mm • Maximum Voltage Between Terminal: 2500V • Inductance: 50-100nH

RESISTANCE VALUE CHART

Value (Code)	Value (Code)
1 (1R00)	47 (47R0)
3 (3R00)	50 (50R0)
5 (5R00)	75 (75R0)◊
10 (10R0)	100 (100R)
15 (15R0)	240 (240R)
25 (25R0)	470 (470R)
33 (33R0)	

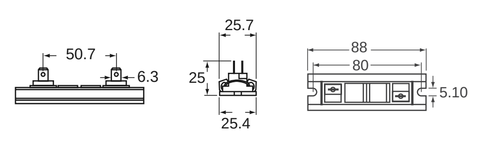

Resistance Range (Ω)	Wattage †	Digi-Key* Part No.	Price Each 1	10	50	100
1 ~ 470 (See Chart)	114	TL88K(Code)-ND	52.80	44.00	17.60	13.20
RoHS Compliant						
1 ~ 470 (See Chart)	114	TL88K(Code)E-ND	52.80	44.00	17.60	13.20

* For complete part number, substitute the corresponding code from Resistance Value Chart for (Code) † Standard wattage for properly heat sinked resistors ◊ Not available in RoHS Compliant

TA Series **Power Chip®** Resistors - Thick Film on Alumina Substrate - 5, 10 and 25 Watt

Ohmite Power Chip Resistors are thick film on alumina oxide substrates with copper plated silver conductors, Ruthenium oxide resistance material and a glass passivation layer. These resistors offer very low inductance (50nh measured at 1MHz) and outstanding power density (10W/in2). Repetitive transient capability is 5 times rated power as long as one second average dissipation remains equal to or less than the free air rating.

Features:
- Wide resistance range • Low inductance • High power density • Easy to install • PC-mountable

Material:
- Terminals: Solder Plated Phosphor Bronze • Coating: Glass

Electrical:
- Resistance Tolerance: ±5% • Power Rating: Based on 25°C free air with linear derating to 0 watts at 350°C
- Maximum Operating Voltage: 350VAC, 500VDC through glass 1000VAC, 1500VDC through substrate
- Overload: Five times rated power, as long as the one second average dissipation does not exceed the wattage rating • DR: ±2%, 2000 hours • Derating: Linearly from 100% @ 25°C ~ 0% @ 350°C

TA205 Series

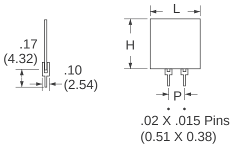

TA810 Series and TA025 Series

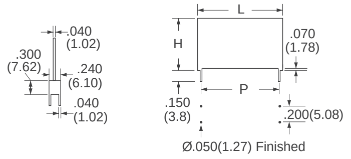

Series	Maximum Dimensions - Inch (mm) P	L (Length)	H (Height)
TA205	.200 (5.08)	.50 (12.70)	1.00 (25.40)
TA810	.800 (20.32)	1.00 (25.40)	1.00 (25.40)
TA025	1.90 (48.3)	2.220 (56.39)	1.170 (29.70)

RESISTANCE VALUE CHART

TA205 Series Value (Code)	TA205 Series Value (Code)	TA205 Series Value (Code)	TA810 Series Value (Code)	TA810 Series Value (Code)	TA025 Series Value (Code)
1.0 (1R00)	15 (15R0)	200 (200R)	1.0 (1R00)	100 (100R)	2.0 (2R00)
1.2 (1R20)◊	18 (18R0)	240 (240R)	1.5 (1R50)	150 (150R)	3.0 (3R00)
1.5 (1R50)	20 (20R0)	300 (300R)	2.0 (2R00)	200 (200R)	3.9 (3R90)◊
1.8 (1R80)◊	24 (24R0)	330 (330R)	3.0 (3R00)	300 (300R)◊	5.1 (5R10)
2.0 (2R00)	30 (30R0)◊	390 (390R)◊	3.9 (3R90)	390 (390R)◊	8.2 (8R20)
2.4 (2R40)	33 (33R0)	470 (470R)	5.1 (5R10)	510 (510R)	20 (20R0)
3.0 (3R00)	39 (39R0)	510 (510R)◊	6.8 (6R80)◊	680 (680R)	30 (30R0)
3.3 (3R30)	47 (47R0)	560 (560R)	8.2 (8R20)	820 (820R)◊	39 (39R0)
3.9 (3R90)	51 (51R0)	680 (680R)◊	10 (10R0)	1K (1K00)	51 (51R0)
4.7 (4R70)◊	56 (56R0)◊	820 (820R)◊	15 (15R0)	1.5K (1K50)◊	82 (82R0)
5.1 (5R10)	68 (68R0)◊	1K (1K00)◊	20 (20R0)	2.0K (2K00)	200 (200R)
5.6 (5R60)◊	82 (82R0)	1.2K (1K20)	30 (30R0)		300 (300R)◊
6.8 (6R80)	100 (100R)	1.5K (1K50)◊	39 (39R0)◊		390 (390R)◊
8.2 (8R20)	120 (120R)◊	1.8K (1K80)◊	51 (51R0)◊		510 (510R)
10 (10R0)	150 (150R)◊	2K (2K00)	68 (68R0)◊		820 (820R)
12 (12R0)	180 (180R)◊	2.4K (2K40)◊	82 (82R0)◊		2.0K (2K00)

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	50	100	500
1.0 ~ 2.4K	5	TA205PA(Code)J-ND	1.50	1.28	1.05	.90
1.0 ~ 2.0K	10	TA810PW(Code)J-ND	3.50	2.80	2.00	1.85
2.0 ~ 2K	25	TA025PW(Code)J-ND	5.85	5.20	4.39	3.22
RoHS Compliant						
1.0 ~ 2K	5	TA205PA(Code)JE-ND	1.50	1.28	1.05	.90
1.0 ~ 8.2	10	TA810PW(Code)JE-ND	3.50	2.80	2.00	1.85
10 ~ 2.0K	10	TA810PW(Code)JE-ND	3.38	2.70	1.95	1.80
2.0 ~ 2K	25	TA025PW(Code)JE-ND	5.85	5.20	4.39	3.22

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code) ◊ Not available in RoHS Compliant

Metal Oxide / Epoxy Coated Resistors

"Mini-Mox" Precision Thick Axial Film Resistors

Applications: • Avionics • Medical Electronics • High Gain Feedback Applications • Current Pulse Limiters • Vacuum and Space Application

Material: • Resistor: Metal Oxide • Coating: Epoxy • Core: Alumina • Terminals: Solder-Coated Axial Lead

Electrical: • Operating Temperature: -55°C ~ 220°C • Dielectric Withstanding Voltage: 750 Volts

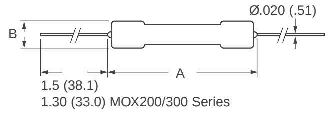

Series	Voltage Rating	Dimensions Inches (mm) A ±.015"	B Maximum
MOX-200	500V	0.300 (7.62)	0.105 (2.67)
MOX-300	1000V	0.435 (11.05)	0.145 (3.68)
MOX-400-23	2500V	0.580 (14.78)	0.165 (4.19)
MOX-750-23	5000V	0.880 (22.35)	0.165 (4.19)
MOX1125-23	7500V	1.270 (32.26)	0.165 (4.19)

Resistance Value (Ω)	Tolerance	Wattage	Digi-Key Part No.	Price Each 1	10	50	100
10M 100M 1,000M	±5%	.50	MOX300J-100M-ND	3.56	2.49	1.80	1.50
	±1%	.75	MOX400F-(Value)-ND	7.09	4.15	3.23	2.67
	±5%	.75	MOX400J-(Value)-ND‡	4.50	2.91	2.19	1.72
	±1%	1.0	MOX750F-(Value)-ND†	7.80	4.62	3.65	3.08
	±5%	1.0	MOX750J-(Value)-ND	5.29	3.54	2.56	2.01
	±1%	1.5	MOX1125F-(Value)-ND‡	10.31	5.37	4.52	3.90
	±5%	1.5	MOX1125J-(Value)-ND	6.86	3.93	2.93	2.63
RoHS Compliant							
10M 100M 1,000M	±1%	.25	MOX200F-10ME-ND	2.51	2.18	1.74	1.15
			MOX200F-100ME-ND	4.28	3.71	2.31	1.74
			MOX200F-1000ME-ND	14.63	11.70	7.60	7.42
	±5%	.25	MOX200J-10ME-ND	2.03	1.76	1.50	.92
			MOX200J-100ME-ND	3.04	2.64	1.65	1.15
			MOX200J-1000ME-ND	3.68	2.94	2.65	2.07
	±1%	.50	MOX300F-10ME-ND	4.28	3.06	2.20	1.82
			MOX300F-100ME-ND	5.03	3.77	2.71	1.89
			MOX300F-1000ME-ND	13.73	7.94	6.05	5.07
	±5%	.50	MOX300J-10ME-ND	3.49	2.49	1.80	1.50
			MOX300J-100ME-ND	3.56	2.49	1.80	1.50
			MOX300J-1000ME-ND	6.04	3.54	2.66	2.24
	±1%	.75	MOX400F-(Value)E-ND	6.75	3.90	3.03	2.51
	±5%	.75	MOX400J-(Value)E-ND‡	4.69	2.91	2.19	1.72
	±1%	1.0	MOX750F-(Value)E-ND	7.50	4.34	3.43	2.89
	±5%	1.0	MOX750J-(Value)E-ND	5.44	3.32	2.40	1.89
	±1%	1.5	MOX1125F-(Value)E-ND†	9.68	5.04	4.24	3.66
	±5%	1.5	MOX1125J-(Value)E-ND‡	6.53	3.69	2.75	2.47

‡ Not available in 10M † Not available in 1,000M

Precision Thick Film Resistors - Maxi-Mox Series

Applications: • HV power supplies • Power distribution • Medical instrumentation • Avionics

Material: • **Core:** Alumina • **Resistor:** Thick Film

Electrical: • Operating Temperature: -55°C ~ 220°C

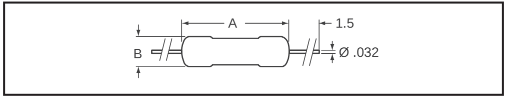

Series	Maximum Dimensions Inch (mm) A	B
MOX-1-12	1.12 (28.45)	0.31 (7.87)
MOX-2-12	2.12 (53.85)	0.31 (7.87)

Resistance Value (Ω)	Tolerance	Wattage	Digi-Key Part No.	Price Each 1	10	50	100
10M 100M 1000M	±1% ±5%	2.5 2.5	MOX1F-(Value)-ND MOX1J-(Value)-ND	7.35 6.64	3.73 3.37	3.35 3.02	2.68 2.42
	±1% ±5%	5 5	MOX2F-(Value)-ND MOX2J-(Value)-ND	10.05 9.08	5.11 4.61	4.60 4.15	3.68 3.32
			RoHS Compliant				
10M 100M 1000M	±1% ±5%	2.5 2.5	MOX1FE-(Value)-ND MOX1JE-1000M-ND	7.35 6.64	3.73 3.37	3.35 3.02	2.68 2.42
	±1% ±5%	5 5	MOX2FE-(Value)-ND MOX2JE-(Value)-ND	10.05 9.08	5.11 4.61	4.60 4.15	3.68 3.32

Precision Thick Film Planar Resistors - Slim-Mox Series

Features:
- High dielectric and low outgassing epoxy coating • Low resistor noise • Non inductive

Applications
- HV power supplies • Medical instrumentation
- Current pulse limiters • Ionization chambers

Material:
- Resistor: Thick film on Alumina

Electrical:
- Operating Temperature: -55°C ~ 110°C

RESISTANCE VALUE CHART
SM204F

Value	Value	Value
10M	100M	1000M

RESISTANCE VALUE CHART
SM104J

Value	Value	Value
10M	100M	1000M

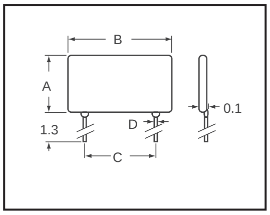

RESISTANCE VALUE CHART
SM102J and SM204J

Value	Value	Value	Value
1K	20K	250K	2.5M
2.5K	25K	500K	5M
5K	50K	750K	10M
7.5K	75K	1M	25M
10K	100K	1.25M	50M
12.5K	125K	1.5M	100M
15K	150K	1.75M	1000M
17.5K	200K	2M	

RESISTANCE VALUE CHART
SM102F and SM104F

Value	Value	Value	Value
200K	4M	50M	1000M
300K	5M	100M	2000M
400K	10M	200M	3000M
500K	20M	300M	4000M
2M	30M	400M	5000M
3M	40M	500M	

RESISTANCE VALUE CHART
SM108F

Value	Value	Value	Value
200K	4M	200M	4000M
300K	5M	300M	5000M
400K	20M	400M	
500K	30M	500M	
2M	40M	2000M	
3M	50M	3000M	

Series	Dimensions - Inch (mm) A Maximum	B Maximum	C ±.025	D ±.002
SLIM-MOX102	0.34 (8.64)	0.58 (14.73)	0.40 (10.16)	0.032 (.813)
SLIM-MOX104	0.34 (8.64)	1.08 (27.43)	0.90 (22.86)	0.032 (.813)
SLIM-MOX108	0.34 (8.64)	2.08 (52.83)	1.90 (48.26)	0.032 (.813)
SLIM-MOX204	0.59 (14.99)	1.08 (27.43)	0.90 (22.86)	0.032 (.813)

Resistance Range (Ω)	Toler-ance	Watt-age	Digi-Key* Part No.	Price Each 1	10	50	100
1K ~ 1000M	±5%	1	SM102J-(Value)-ND	4.16	3.67	3.00	1.89
10M, 100M, 1000M	±1%	1	SM102F-(Value)-ND	4.16	3.61	3.02	1.96
200K ~ 5000M	±1%	1	SM102F-(Value)-ND	4.43	3.90	3.19	2.01
10M, 100M, 1000M	±5%	1.5	SM104J-(Value)-ND	3.75	3.30	2.75	1.64
10M, 100M, 1000M	±1%	1.5	SM104F-(Value)-ND	4.28	3.74	3.11	2.02
200K ~ 5000M	±1%	1.5	SM104F-(Value)-ND	4.54	4.00	3.27	2.06
200K ~ 5000M	±1%	2.5	SM108F-(Value)-ND	5.59	4.92	4.03	2.54
1K ~ 1000M	±5%	2	SM204J-(Value)-ND	5.89	3.93	3.14	2.36
100M ~ 1000M	±1%	2	SM204F-(Value)-ND	6.90	4.71	3.92	2.80
			RoHS Compliant				
100M	±5%	1.5	SM102JE-100M-ND	3.90	3.44	2.82	1.78
10M, 100M, 1000M	±5%	1.5	SM104JE-(Value)-ND	3.75	3.30	2.75	1.64
10M, 100M, 1000M	±1%	1.5	SM104FE-(Value)-ND	4.28	3.74	3.11	2.02
200K ~ 5M, 20M ~ 50M, 200M ~ 500M 2000M ~ 5000M	±1%	1.5	SM104FE-(Value)-ND	4.54	4.00	3.27	2.06
200K ~ 5000M	±1%	2.5	SM108FE-(Value)-ND	5.59	4.92	4.03	2.54
10K, 20K, 50K, 150K ~ 200K 500K ~ 1M, 1.5M, 2M, 5M, 25M ~ 100M	±5%	2	SM204JE-(Value)-ND	5.70	5.32	4.56	3.77
10M, 100M, 1000M	±1%	2	SM204FE-(Value)-ND	6.49	6.06	5.19	4.42

* For complete part number, substitute the corresponding value from the Resistance Value Chart .

Precision Current Sense Resistors - CS3 Series

The resistor family line CS3 utilizes state-of-the-art technology to provide a highly reliable resistor with a non inductive design. This makes the CS3 resistor ideal for many current monitoring and controls applications.

Features: • Values beginning at 1mΩ • Non Inductive Design • Four terminal Kelvin connection • 100% QC measurement

Specifications: Material: • Terminal Material: Kelvin Terminals; silver plated and tinned • Encapsulation: Polyester over resistance element

Electrical: • Resistance Tolerances: 1% • Temperature Coefficient: TC referenced to 25°C, ΔR taken at 15°C and 105°C, 60ppm/°C • Power Rating: 3W at 70°C maximum 40Amp permanent

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
.001 (R001)	.010 (R010)	.030 (R030)
.002 (R002)	.015 (R015)◊	.036 (R036)◊
.003 (R003)	.020 (R020)	.050 (R050)
.005 (R005)	.025 (R025)◊	

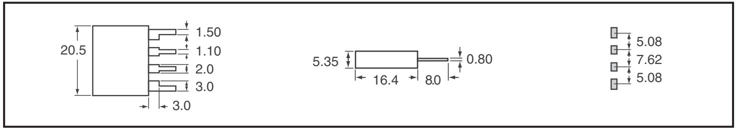

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	10	50
.001 ~ .050	3	CS3F(Code)-ND	10.13	9.00	7.88
		RoHS Compliant			
.001 ~ .050	3	CS3F(Code)E-ND	10.13	9.00	7.88

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant.

WL Series - Miniature Wirewound Current Sense Resistors

Features: • Ultra-low ohmic value series for current sensing applications • Very low inductive value (<1nH at 1MHz test) to meet the most stringent electronic industry requirements • Miniaturized dimensions, better power to dimension ratios • Use of the highest quality standard (96% alumina) ceramic core • Encapsulated by epoxy molding compound **Specifications: Material:** • Ceramic Core: CeramTec Rubalit® 708 96% alumina • End Caps: Stainless steel, precision formed • Leads: Copper wire, 100% Sn (lead free) coated • CN49W alloy resistance wire TC ±20ppm/°C • Encapsulation: SUMICON 1100/1200 Epoxy molding compound for IC encapsulation **Electrical:** Tolerance: ±1.0%

Type	Dimensions – Inch (mm) L	D	d
WLA	.200 (5.08)	.10 (2.54)	.024 (.60)
WLB	.276 (7.00)	.12 (3.00)	.024 (.60)
WLC	.450 (11.4)	.27 (6.86)	.031 (.80)

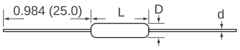

Resistance Range (Ω)	Power Rating (Watt)	Digi-Key* Part No.	Cut Tape Price Each 1	25	100	Digi-Key* Part No.	Tape and Reel Pricing 1,000
.005 ~ .100	0.5	WLA(Code)FCT-ND	.85	.77	.68	WLA(Code)FTR-ND	480.00
.005 ~ .100	1.0	WLB(Code)FCT-ND	.85	.77	.68	WLB(Code)FTR-ND	480.00
.010 ~ .100	2.0	WLC(Code)FCT-ND	.85	.77	.68	WLC(Code)FTR-ND	480.00
		RoHS Compliant					
.005 ~ .100	0.5	WLA(Code)FECT-ND	.85	.77	.68	WLA(Code)FETR-ND	480.00
.005 ~ .100	1.0	WLB(Code)FECT-ND	.85	.77	.68	WLB(Code)FETR-ND	480.00
.010 ~ .100	2.0	WLC(Code)FECT-ND	.85	.77	.68	WLC(Code)FETR-ND	480.00

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

RESISTANCE VALUE CHART

WLA Value (Code)	WLB Value (Code)	WLC Value (Code)
.005 (R005)	.005 (R005)	.010 (R010)
.010 (R010)	.010 (R010)	.015 (R015)
.015 (R015)	.015 (R015)	.020 (R020)
.020 (R020)	.020 (R020)	.025 (R025)
.025 (R025)	.025 (R025)	.030 (R030)
.030 (R030)	.030 (R030)	.050 (R050)
.050 (R050)	.050 (R050)	.100 (R100)
.100 (R100)	.100 (R100)	

10 Series - Molded Silicone Axial Lead Wire Element Resistors

Ideal for Current Sensing

Electrical Specifications: • **Resistance Tolerance:** ±1% (F Type) • **Power Rating:** Based on 25°C free air rating • **Overload:** 5x rated power for 5 seconds • **Dielectric Withstanding Voltage:** *2 Watt*: 500 VRMS, *3 and 5 Watt:* 1000 VRMS • **Insulation Resistance:** Not less than 1000MΩ • **Temperature Range:** -55°C ~ 275°C

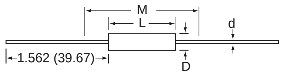

Watts	Maximum Dimensions – mm			
	D	L	d	M
2	2.64	10.57	.86	29.36
3	5.46	14.48	.86	33.27
5	8.64	23.50	1.07	42.55

RESISTANCE VALUE CHART

12F Series Value (Code)	13F Series Value (Code)	15F Series Value (Code)
.005 (R005)	.005 (R005)	.005 (R005)
.010 (R010)	.010 (R010)	.010 (R010)
.015 (R015)	.015 (R015)	.015 (R015)
.020 (R020)	.020 (R020)	.020 (R020)
.025 (R025)	.025 (R025)	.025 (R025)
.030 (R030)	.030 (R030)	.030 (R030)
.040 (R040)	.040 (R040)	.040 (R040)
.050 (R050)	.050 (R050)	.050 (R050)
.070 (R070)	.070 (R070)	.070 (R070)
	.100 (R100)	.100 (R100)
	.150 (R150)	.150 (R150)
	.200 (R200)	.200 (R200)
		.250 (R250)

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	10	100	250
.010 ~ .020	2	12F(Code)-ND	1.56	1.40	1.25	1.17
.025 ~ .040	2	12F(Code)-ND	1.54	1.39	1.23	1.16
.050	2	12F(Code)-ND	1.45	1.31	1.16	1.09
.070	2	12F(Code)-ND	1.56	1.40	1.25	1.17
.005	3	13F(Code)-ND	1.55	1.40	1.24	1.16
.010 ~ .015	3	13F(Code)-ND	1.46	1.31	1.17	1.10
.020 ~ .030	3	13F(Code)-ND	1.40	1.26	1.12	1.05
.040 ~ .050	3	13F(Code)-ND	1.38	1.24	1.10	1.04
.070 ~ .200	3	13F(Code)-ND	1.55	1.40	1.24	1.16
.010 ~ .030	5	15F(Code)-ND	1.79	1.61	1.43	1.34
.040 ~ .050	5	15F(Code)-ND	1.75	1.58	1.40	1.31
RoHS Compliant						
.005 ~ .020	2	12F(Code)E-ND	1.56	1.40	1.25	1.17
.025 ~ .040	2	12F(Code)E-ND	1.54	1.39	1.23	1.16
.050	2	12F(Code)E-ND	1.45	1.31	1.16	1.09
.070	2	12F(Code)E-ND	1.56	1.40	1.25	1.17
.005	3	13F(Code)E-ND	1.55	1.40	1.24	1.16
.010 ~ .015	3	13F(Code)E-ND	1.46	1.31	1.17	1.10
.020 ~ .030	3	13F(Code)E-ND	1.40	1.26	1.12	1.05
.040 ~ .050	3	13F(Code)E-ND	1.38	1.24	1.10	1.04
.070 ~ .200	3	13F(Code)E-ND	1.55	1.40	1.24	1.16
.005	5	15F(Code)E-ND	1.85	1.67	1.48	1.39
.010 ~ .030	5	15F(Code)E-ND	1.79	1.61	1.43	1.34
.040 ~ .050	5	15F(Code)E-ND	1.75	1.58	1.40	1.31
.070 ~ .250	5	15F(Code)E-ND	1.72	1.55	1.38	1.29

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code). ◊ Not available in RoHS Compliant

60S Series - Surface Mount Metal Plate Current Sense Resistors

602SJ and 605SJ

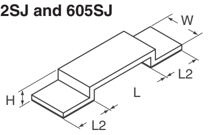

610SJ

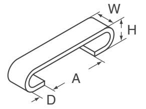

Type	Maximum Dimensions mm					
	L	L2	H	W	D	A
602SJ	10.0	2.0	0.6	3.0	—	—
605SJ	10.0	2.0	2.0	5.2	—	—
610SJ	—	—	3.5	3.2	2.35	4.8

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

Specifications:

- **Tolerance:** ±5%
- **TCR (ppm/C°):**
  602SJ and 605SJ: ±100; *610SJ:* ±350
- **Rated Ambient Temperature:**
  602SJ and 605SJ: 70°C; *610SJ:* 85°C
- **Operating Temperature Range:** -40°C ~ 155°C

RESISTANCE VALUE CHART

Value (Code) .25 Watt 602SJ	Value (Code) .5 Watt 605SJ	Value (Code) 1 Watt 610SJ
.003 (R00300) .005 (R00500)	.002 (R00200) .00375 (R00375) .005 (R00500) .008 (R00800)	.002 (R00200) .003 (R00300)

Resistance Range (Ω)	Power Rating (Watt)	Digi-Key* Part No.	Bulk Price Each 1	10	100	Digi-Key* Part No.	Tape and Reel Size	Pricing
.003 ~ .005	0.25@25°C	602SJ(Code)BK-ND	1.00	.88	.75	602SJ(Code)TR-ND	2,000	600.00/M
.002 ~ .008	0.5@25°C	605SJ(Code)BK-ND	1.00	.88	.75	605SJ(Code)TR-ND	2,000	600.00/M
RoHS Compliant								
.003 ~ .005	0.25@25°C	602SJ(Code)E-ND	1.00	.88	.75	602SJ(Code)ETR-ND	2,000	600.00/M
.002 ~ .008	0.5@25°C	605SJ(Code)E-ND	1.00	.88	.75	605SJ(Code)ETR-ND	2,000	600.00/M
.002 ~ .003	1@70°C	610SJ(Code)E-ND	1.00	.88	.75	610SJ(Code)ETR-ND	1,500	600.00/M

60 Series - Metal Element Current Sensing Resistors

These non-inductive, 3-piece welded element resistors offer a reliable low-cost alternative to conventional resistors.

Features: • Low inductance • Low cost • Wirewound performance • Flameproof

Material: • Resistor: Nichrome resistive element • Terminals: Copper clad steel or copper depending on style

Derating: • Linearly from 100% @ 25°C to 0% @ 275°C

Electrical: • Power rating: Based on 25°C ambient • Overload: 5x rated power for 5 seconds • Inductance: <10nh • To calculate maximum amps use the formula $\sqrt{P/R}$

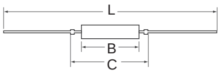

Part Number	Dimensions - Inches L	B max.	C	Lead Ga.
604HR010	3.530	.250	.559	22
604HR020	3.530	.250	.559	22
604HR025	3.530	.250	.559	22
605HR010	3.685	.330	1.310	20
605HR020	3.685	.330	1.310	20
605HR030	3.685	.330	1.310	20
605HR100	3.981	.700	1.675	18
607HR050	3.587	.650	1.106	20
607HR005	3.674	.320	1.310	20
610HR005	3.587	.650	1.106	20
610HR010	3.587	.650	1.106	20
610HR020	3.587	.650	1.106	20
610HR030	3.587	.650	1.106	20
610HR050	3.981	.750	1.675	18
615HR010	3.981	.750	1.675	18
615HR020	3.981	.750	1.675	18
615HR030	3.981	.750	1.675	18
620HR005	3.981	.650	1.675	18
630HR010	3.000	1.273	1.310	18
630HR025	3.384	1.264	1.694	18
630HR050	3.900	1.780	2.210	18

RESISTANCE VALUE CHART

604HR Value (Code)	605HR Value (Code)	607HR Value (Code)	610HR Value (Code)	615HR Value (Code)	620HR Value (Code)	630HR Value (Code)
.010 (010)	.010 (010)	.005 (005)	.005 (005)	.010 (010)	.005 (005)	.010 (010)
.020 (020)	.020 (020)	.050 (050)	.010 (010)	.020 (020)		.025 (025)
.025 (025)	.030 (030)		.020 (020)	.030 (030)		.050 (050)
	.100 (100)		.030 (030)			
			.050 (050)			

Resistance Range (Ω)	Tolerance	Wattage	Digi-Key* Part No.	Price Each 1	100	1,000
.010 ~ .025	±3%	.375	604HR(Code)-ND	.42	.36	.29
.010 ~ .020	±3%	.50	605HR(Code)-ND	.42	.36	.29
.005 ~ .050	±3%	.75	607HR(Code)-ND	.42	.36	.29
.005 ~ .050	±3%	1	610HR(Code)-ND	.42	.36	.29
.020 ~ .030	±3%	1.5	615HR(Code)-ND	.42	.36	.29
.005	±3%	2	620HR(Code)-ND	.42	.36	.29
.010	±3%	3	630HR(Code)-ND	.42	.36	.29
RoHS Compliant						
.010 ~ .025	±3%	.375	604HR(Code)E-ND	.42	.36	.29
.010 ~ .100	±3%	.50	605HR(Code)E-ND	.42	.36	.29
.005 ~ .050	±3%	.75	607HR(Code)E-ND	.42	.36	.29
.005 ~ .050	±3%	1	610HR(Code)E-ND	.42	.36	.29
.010 ~ .030	±3%	1.5	615HR(Code)E-ND	.42	.36	.29
.005	±3%	2	620HR(Code)E-ND	.42	.36	.29
.010 ~ .050	±3%	3	630HR(Code)E-ND	.42	.36	.29

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

RW Series - Four-terminal Current Sense Resistors - 1 Watt

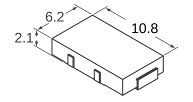

RESISTANCE VALUE CHART

Value (Code)
.005 (R005)
.010 (R010)
.025 (R025)
.050 (R050)

*For complete part number, substitute the corresponding code from Resistance Value Chart for (Code).

Features: • Extremely low resistance and high precision tolerance • Low TCR achieved (±50ppm/°C) • Flameproof UL94-V-0 • Marking: Black body color with white marking

Specifications: • **Dielectric Witholding Voltage:** 500V • **TCR (maximum):** ±50ppm/°C • **Rated Ambient Temperature:** 70°C • **Operating Temperature Range:** -55°C ~ 125°C

Resistance Range (Ω)	Tolerance	Digi-Key* Part No.	Bulk Price Each 1	10	100	Digi-Key* Part No.	T & R Pricing 1,000
.005 ~ .050	±0.5%	RW1S0CK(Code)DBK-ND	5.74	3.83	3.50	RW1S0CK(Code)DTR-ND	2950.00
.005 ~ .050	±1%	RW1S0CK(Code)FBK-ND	5.40	3.60	3.25	RW1S0CK(Code)FTR-ND	2799.99
RoHS Compliant							
.005 ~ .050	±0.5%	RW1S0CK(Code)DE-ND	5.74	3.83	3.50	RW1S0CK(Code)DETR-ND	2950.00
.005 ~ .050	±1%	RW1S0CK(Code)FE-ND	5.40	3.60	3.25	RW1S0CK(Code)FETR-ND	2800.00

Vitreous Enamel Power Resistors - 8 and 12 Watt

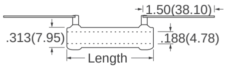

	B8J	B12J
Max. Voltage	250	625
Overload	10 times rated wattage for 5 seconds	
Length	1.000" (25.40mm)	1.750" (44.45mm)

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
2.0 (2R0)	75 (75R)	600 (600)	3.5K (3K5)	12.0K (12K)◊
3.0 (3R0)	100 (100)	750 (750)	4.0K (4K0)‡	15.0K (15K)
5.0 (5R0)	125 (125)	900 (900)	4.5K (4K5)‡	20.0K (20K)
7.5 (7R5)	150 (150)	1.0K (1K0)	5.0K (5K0)	25.0K (25K)
10 (10R)	200 (200)	1.2K (1K2)	6.0K (6K0)◆	40.0K (40K)
15 (15R)‡	250 (250)	1.25K (1K25)	7.0K (7K0)	50.0K (50K)
20 (20R)	300 (300)	1.5K (1K5)	7.5K (7K5)	
25 (25R)‡	400 (400)	2.0K (2K0)	8.0K (8K0)	
35 (35R)	450 (450)	2.5K (2K5)	9.0K (9K0)	
50 (50R)	500 (500)	3.0K (3K0)◊	10.0K (10K)	

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).
◊ Not available in RoHS Compliant ◆ Not available in 12 Watt ‡ Not available in 8 Watt RoHS Compliant

Resistance Range (Ω)	Wattage	Digi-Key* Part No.	Price Each 1	25	100	250
5.0 ~ 7.5	8	B8J(Code)-ND	2.88	2.59	2.30	2.02
10 ~ 500	8	B8J(Code)-ND	2.78	2.50	2.22	1.95
600 ~ 1.5K	8	B8J(Code)-ND	2.58	2.32	2.06	1.81
2.0K ~ 9.0K	8	B8J(Code)-ND	2.63	2.37	2.10	1.84
2.0 ~ 7.5	12	B12J(Code)-ND	2.78	2.50	2.22	1.95
10 ~ 900	12	B12J(Code)-ND	2.46	2.21	1.97	1.72
1.0K ~ 1.5K	12	B12J(Code)-ND	2.67	2.40	2.14	1.87
2.0K ~ 4.0K	12	B12J(Code)-ND	2.74	2.47	2.19	1.92
4.5K ~ 9.0K	12	B12J(Code)-ND	2.88	2.59	2.30	2.02
10.0K ~ 15.0K	12	B12J(Code)-ND	2.95	2.66	2.36	2.07
20.0K ~ 40.0K	12	B12J(Code)-ND	3.06	2.75	2.45	2.14
50.0K	12	B12J(Code)-ND	3.85	3.47	3.08	2.70
RoHS Compliant						
5.0, 7.5	8	B8J(Code)E-ND	2.88	2.59	2.30	2.02
10, 20, 35 ~ 75	8	B8J(Code)E-ND	2.78	2.50	2.22	1.95
300	8	B8J(Code)E-ND	2.78	2.50	2.22	1.95
2.0K ~ 6.0K	8	B8J(Code)E-ND	2.63	2.37	2.10	1.84
10.0K	8	B8J(Code)E-ND	2.85	2.57	2.28	2.00
2.0 ~ 7.5	12	B12J(Code)E-ND	2.78	2.50	2.22	1.95
10 ~ 100, 150 ~ 250	12	B12J(Code)E-ND	2.46	2.21	1.97	1.72
500	12	B12J(Code)E-ND	2.46	2.21	1.97	1.72
1.0K, 1.25K, 1.5K	12	B12J(Code)E-ND	2.67	2.40	2.14	1.87
2.0K ~ 3.5K	12	B12J(Code)E-ND	2.74	2.47	2.19	1.92
4.5K, 5.0K, 7.5K	12	B12J(Code)E-ND	2.88	2.59	2.30	2.02
10.0K, 15.0K	12	B12J(Code)E-ND	2.95	2.66	2.36	2.07
20.0K ~ 40.0K	12	B12J(Code)E-ND	3.06	2.75	2.45	2.14
50.0K	12	B12J(Code)E-ND	3.85	3.47	3.08	2.70

Vitreous Enamel Power Resistors 25, 50, 100, and 225 Watt

Adjustable with Tabs
Type 210
D25K, D50K, D100K, D225K

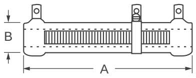

Fixed with Tabs
Type 270
L25J, L50J, L100J, L225J

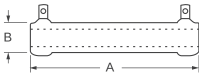

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	100 (100)	2.5K (2K5)
2.0 (2R0)	150 (150)	4.0K (4K0)
3.0 (3R0)	200 (200)	5.0K (5K0)
5.0 (5R0)	250 (250)	10.0K (10K)
10 (10R)	500 (500)	12.0K (12K)
25 (25R)	750 (750)	25.0K (25K)
50 (50R)	1.0K (1K0)	50.0K (50K)

	L25J/ D25K	L50J/ D50K	L100J/ D100K	L225J/ D225K
Max. Voltage	625	1625	2845	4595
Overload	10 times rated wattage for 5 seconds			
DWV	1000VAC	1000VAC	1000VAC	3000VAC
Length A	2" (50.80mm)	4" (101.60mm)	6.5" (165.10mm)	10.5" (266.70mm)
Diameter B	.5625" (14.29mm)	.5625" (14.29mm)	.750" (19.05mm)	1.125" (28.58mm)

Resistance Range (Ω)	Watt-age	Digi-Key* Part No.	Price Each 1	25	50	100
3.0	25	L25J(Code)-ND	4.80	4.08	—	3.36
1.0K, 2.5K	25	L25J(Code)-ND	4.79	4.07	—	3.35
4.0K, 5.0K	25	L25J(Code)-ND	4.84	4.11	—	3.39
10.0K, 12.0K	25	L25J(Code)-ND	5.80	4.93	—	4.06
25.0K	25	L25J(Code)-ND	5.80	4.93	—	4.06
50.0K	25	L25J(Code)-ND	6.23	5.30	—	4.36
1.0	25	D25K(Code)-ND	8.94	7.60	—	6.26
5.0, 250, 500	25	D25K(Code)-ND	7.60	6.46	—	5.32
1.0	50	L50J(Code)-ND	7.18	6.10	—	5.03
2.0 ~ 5.0	50	L50J(Code)-ND	6.73	5.72	—	4.71
25, 50, 100, 500	50	L50J(Code)-ND	6.60	5.61	—	4.62
1.0K, 5.0K	50	L50J(Code)-ND	6.54	5.56	—	4.58
1.0 ~ 3.0	50	D50K(Code)-ND	12.70	10.80	—	8.89
5.0	50	D50K(Code)-ND	12.47	10.60	—	8.73
50	50	D50K(Code)-ND	10.87	9.24	—	7.61
1.0K	50	D50K(Code)-ND	11.37	9.66	—	7.96
Mounting Bracket 25/50W‡	—	9-100-ND	1.34/2		4.48/10	
50	100	L100J(Code)-ND	9.00	7.65	—	6.75
250	100	L100J(Code)-ND	8.80	7.48	—	6.60
1.0	100	D100K(Code)-ND	15.70	14.13	—	12.56
2.0,10	100	D100K(Code)-ND	15.29	13.76	—	12.23
1.0	225	L225J(Code)-ND	28.05	25.25	—	22.44
3.0, 5.0	225	L225J(Code)-ND	16.25	14.63	—	13.00
10, 50, 100	225	L225J(Code)-ND	14.10	12.69	—	11.28
250, 500	225	L225J(Code)-ND	13.45	12.11	—	10.76
100, 150, 200, 250, 500, 1.0K	225	D225K(Code)-ND	18.67	16.80	14.94	—
Mounting Bracket 225W‡	—	18-100-ND	3.06/2		10.20/10	

Resistance Range (Ω)	Watt-age	Digi-Key* Part No.	Price Each 1	25	50	100
RoHS Compliant						
2.0, 3.0	25	L25J(Code)E-ND	4.80	4.08	—	3.36
10, 25, 100, 500, 750	25	L25J(Code)E-ND	4.57	3.88	—	3.20
1.0K, 2.5K	25	L25J(Code)E-ND	4.79	4.07	—	3.35
4.0K, 5.0K	25	L25J(Code)E-ND	4.84	4.11	—	3.39
10.0K, 12.0K	25	L25J(Code)E-ND	5.80	4.93	—	4.06
25.0K	25	L25J(Code)E-ND	5.80	4.93	—	4.06
50.0K	25	L25J(Code)E-ND	6.23	5.30	—	4.36
1.0	25	D25K(Code)E-ND	10.59	9.00	—	7.42
3.0, 5.0, 10, 25, 50, 100, 250, 500	25	D25K(Code)E-ND	9.00	7.66	—	6.31
1.0	50	L50J(Code)E-ND	7.18	6.10	—	5.03
2.0 ~ 5.0	50	L50J(Code)E-ND	6.73	5.72	—	4.71
10 ~ 100, 500	50	L50J(Code)E-ND	6.60	5.61	—	4.62
1.0K, 5.0K	50	L50J(Code)E-ND	6.54	5.56	—	4.58
1.0 ~ 3.0	50	D50K(Code)E-ND	15.02	12.77	—	10.52
5.0	50	D50K(Code)E-ND	14.79	12.58	—	10.36
10, 25, 50	50	D50K(Code)E-ND	12.87	10.94	—	9.01
100, 500	50	D50K(Code)E-ND	12.87	10.94	—	9.01
1.0K	50	D50K(Code)E-ND	13.47	11.45	—	9.43
Mounting Bracket 25/50W‡	—	9-100E-ND	1.34/2		4.48/10	
1.0, 2.0	100	L100J(Code)E-ND	9.88	8.40	—	7.41
5.0	100	L100J(Code)E-ND	9.50	8.08	—	7.13
10, 50	100	L100J(Code)E-ND	9.00	7.65	—	6.75
100, 250	100	L100J(Code)E-ND	8.80	7.48	—	6.60
1.0K	100	L100J(Code)E-ND	8.46	7.19	—	6.35
1.0	100	D100K(Code)E-ND	16.72	15.05	—	13.38
2.0,10	100	D100K(Code)E-ND	16.28	14.65	—	13.02
50, 100, 250	100	D100K(Code)E-ND	14.63	13.17	—	11.70
1.0K	100	D100K(Code)E-ND	14.63	13.17	—	11.70
Mounting Bracket 100W‡	—	12-100E-ND	2.91/2		9.71/10	
1.0	225	L225J(Code)E-ND	28.05	25.25	—	22.44
3.0, 5.0	225	L225J(Code)E-ND	16.25	14.63	—	13.00
10, 50, 100	225	L225J(Code)E-ND	14.10	12.69	—	11.28
250, 500	225	L225J(Code)E-ND	13.45	12.11	—	10.76
1.0K	225	L225J(Code)E-ND	13.00	11.70	—	10.40
1.0	225	D225K(Code)E-ND	34.55	31.10	27.64	—
2.0, 3.0	225	D225K(Code)E-ND	29.31	26.38	23.45	—
5.0	225	D225K(Code)E-ND	26.44	23.80	21.15	—
10, 25, 50	225	D225K(Code)E-ND	23.55	21.19	18.84	—
100, 150, 200, 250, 500, 1.0K	225	D225K(Code)E-ND	19.88	17.89	15.91	—
Mounting Bracket 225W‡	—	18-100E-ND	3.06/2		10.20/10	

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code). ‡ Requires 2 brackets per resistor

Miniature Molded Wirewound Resistors

WH Series and Non-Inductive WN Series

Specifications:

Material: • Ceramic Core: CeramTec Rubalit® 708 96% alumina • End Caps: Stainless steel, precision formed • Leads: Copper wire, 100% Sn (lead free) coated • ISAOHM alloy resistance wire TC ±20ppm/°C • Encapsulation: SUMICON 1100/1200 Epoxy molding compound for IC encapsulatio

Electrical: • Tolerance: ±1.0%

Features: • WN Series, Aryton Perry winding Non-Inductive • Inductance <nH at 1MHz test

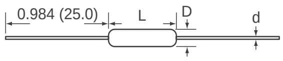

Type	Dimensions Inch (mm) L	D	d
WHA WNA	.200 (5.08)	.10 (2.54)	.024 (.60)
WHB WNB	.276 (7.00)	.12 (3.00)	.024 (.60)
WHC WNC	.450 (11.4)	.27 (6.86)	.031 (.80)

RESISTANCE VALUE CHARTS

WHA

Value (Code)	Value (Code)
.10 (R10)	75 (75R)
.25 (R25)	100 (100)
.50 (R50)	150 (150)
.75 (R75)	200 (200)
1.0 (1R0)	250 (250)
5.0 (5R0)	330 (330)
10 (10R)	470 (470)
15 (15R)	560 (560)
25 (25R)	750 (750)
51 (51R)	1.0K (1K0)

WHB

Value (Code)	Value (Code)
.10 (R10)	100 (100)
.25 (R25)	150 (150)
.50 (R50)	200 (200)
.75 (R75)	250 (250)
1.0 (1R0)	330 (330)
5.0 (5R0)	470 (470)
10 (10R)	560 (560)
25 (25R)	750 (750)
51 (51R)	1.0K (1K0)
75 (75R)	2.5K (2K5)

WHC

Value (Code)	Value (Code)
.10 (R10)	75 (75R)
.25 (R25)	100 (100)
.50 (R50)	150 (150)
.75 (R75)	200 (200)
1.0 (1R0)	330 (330)
5.0 (5R0)	560 (560)
10 (10R)	750 (750)
15 (15R)	1.0K (1K0)
51 (51R)	

WNA (Non-Inductive)

Value (Code)	Value (Code)
.50 (R50)	51 (51R)
.75 (R75)	75 (75R)
1.0 (1R0)	100 (100)
5.0 (5R0)	150 (150)
10 (10R)	200 (200)
15 (15R)	250 (250)
25 (25R)	

WNB (Non-Inductive)

Value (Code)	Value (Code)
.10 (R10)	75 (75R)
.25 (R25)	100 (100)
.50 (R50)	150 (150)
.75 (R75)	200 (200)
1.0 (1R0)	330 (330)
5.0 (5R0)	560 (560)
10 (10R)	750 (750)
15 (15R)	1.0K (1K0)
51 (51R)	

WNC (Non-Inductive)

Value (Code)	Value (Code)
.10 (R10)	51 (51R)
.50 (R50)	75 (75R)
.75 (R75)	100 (100)
1.0 (1R0)	150 (150)
2.0 (2R0)	200 (200)
5.0 (5R0)	330 (330)
10 (10R)	470 (470)
15 (15R)	750 (750)
25 (25R)	1.0K (1K0)

Resistance Range (Ω)	Power Rating (Watt)	Digi-Key* Part No.	Cut Tape Price Each 1	25	100	Digi-Key* Part No.	Tape and Reel Pricing 1,000
.10 ~ 1.0K	0.5	WHA(Code)FCT-ND	.80	.72	.64	WHA(Code)FTR-ND	450.00
.10 ~ 2.5K	1.0	WHB(Code)FCT-ND	.80	.72	.64	WHB(Code)FTR-ND	450.00
.10 ~ 1.0K	2.0	WHC(Code)FCT-ND	.80	.72	.64	WHC(Code)FTR-ND	450.00
.50 ~ 250	0.5	WNA(Code)FCT-ND	.88	.79	.70	WNA(Code)FTR-ND	490.00
.10 ~ 1.0K	1.0	WNB(Code)FCT-ND	.88	.79	.70	WNB(Code)FTR-ND	490.00
.10 ~ 1.0K	2.0	WNC(Code)FCT-ND	.88	.79	.70	WNC(Code)FTR-ND	490.00
RoHS Compliant							
.10 ~ 1.0K	0.5	WHA(Code)FECT-ND	.80	.72	.64	WHA(Code)FETR-ND	450.00
.10 ~ 2.5K	1.0	WHB(Code)FECT-ND	.80	.72	.64	WHB(Code)FETR-ND	450.00
.10 ~ 1.0K	2.0	WHC(Code)FECT-ND	.80	.72	.64	WHC(Code)FETR-ND	450.00
.50 ~ 250	0.5	WNA(Code)FECT-ND	.88	.79	.70	WNA(Code)FETR-ND	490.00
.10 ~ 1.0K	1.0	WNB(Code)FECT-ND	.88	.79	.70	WNB(Code)FETR-ND	490.00
.10 ~ 1.0K	2.0	WNC(Code)FECT-ND	.88	.79	.70	WNC(Code)FETR-ND	490.00

*For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

Ceramic Housed Radial Leaded Power Resistors

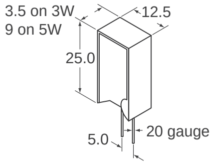

Dim. in mm

The TWW/TWM Series radial lead power resistors offer significant board space savings over axial leaded products. Generated heat is also kept away from the circuit board. They are recommended for commercial applications requiring low cost.

Electrical Specifications:

	TWW Series	TWM Series
Resistance Tolerance	±5% standard	±5% standard
Temperature Coefficient	.1Ω ~ 20Ω — ±400ppm/°C 20Ω ~ 47Ω — ±350ppm/°C	43Ω ~ 10KΩ — ±350ppm/°C
Dielectric Withstanding Voltage	1000VAC	1000VAC
Short Time Overload	10 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds

Resistor Series	Power Rating	Voltage	Element
TWW3	3W	250	Wire
TWW5	5W	350	Wire
TWM3	3W	250	Metal Oxide
TWM5	5W	350	Metal Oxide

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

RESISTANCE VALUE CHART

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R10)	1.5 (1R5)	20 (20R)	270 (270)	3.0K (3K0)
.15 (R15)	2.0 (2R0)	27 (27R)	300 (300)	3.3K (3K3)
.20 (R20)	2.7 (2R7)	30 (30R)	330 (330)	3.9K (3K9)
.27 (R27)	3.0 (3R0)	33 (33R)	390 (390)	4.3K (4K3)
.30 (R30)	3.3 (3R3)	39 (39R)	430 (430)	4.7K (4K7)
.33 (R33)	3.9 (3R9)	43 (43R)	470 (470)	5.6K (5K6)
.39 (R39)	4.3 (4R3)	47 (47R)	560 (560)	6.8K (6K8)
.43 (R43)	4.7 (4R7)	56 (56R)	680 (680)	7.5K (7K5)
.47 (R47)	5.6 (5R6)	68 (68R)	750 (750)	8.2K (8K2)
.56 (R56)	6.8 (6R8)	75 (75R)	820 (820)	10K (10K)
.68 (R68)	7.5 (7R5)	82 (82R)	1.0K (1K0)	
.75 (R75)	8.2 (8R2)	100 (100)	1.5K (1K5)	
.82 (R82)	10 (10R)	150 (150)	2.0K (2K0)	
1.0 (1R0)	15 (15R)	200 (200)	2.7K (2K7)	

Resistance Range (Ω)	Digi-Key* Part No.	Price Each 1	100	300
.10 ~ 39	TWW3J(Code)-ND	.42	.38	.32
.15 ~ 47	TWW5J(Code)-ND	.45	.41	.34
43 ~ 10K	TWM3J(Code)-ND	.42	.38	.32
56 ~ 10K	TWM5J(Code)-ND	.45	.41	.34
RoHS Compliant				
.10 ~ 39	TWW3J(Code)E-ND	.42	.38	.32
.10 ~ 47	TWW5J(Code)E-ND	.45	.41	.34
43 ~ 10K	TWM3J(Code)E-ND	.42	.38	.32
56 ~ 10K	TWM5J(Code)E-ND	.45	.41	.34

OHMITE®

Silicone - Ceramic Conformal Wirewound Resistors

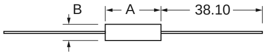

Resistor Series	Maximum Length A (mm)	Maximum Diameter B (mm)	Lead Diameter (mm)
41F	11.10	3.18	.51
43F	15.06	5.54	.81
45F	23.80	8.71	1.02

Electrical Specifications:	41F Series	43F Series	45F Series
Resistance Tolerance	±1%	±1%	±1%
Power Rating Ambient Temperature	1W @ 25°C	3W @ 25°C	5W @ 25°C
Temperature Coefficient of Resistance	Under 1Ω — ±90ppm/°C 1Ω ~ 9.99Ω — ±50ppm/°C 10Ω and over — ±20ppm/°C		
Dielectric Withstanding Voltage	500VAC	1000VAC	1000VAC
Short Time Overload	5 times rated wattage for 5 seconds	5 times rated wattage for 5 seconds	10 times rated wattage for 5 seconds

Resistance Range (Ω)	Digi-Key* Part No.	Price Each 1	25	100	250
.13 ~ .75	41F(Code)-ND	2.30	1.96	1.73	1.50
1.0 ~ 7.5	41F(Code)-ND	2.22	1.89	1.67	1.44
10 ~ 82	41F(Code)-ND	1.92	1.63	1.44	1.25
100 ~ 470	41F(Code)-ND	2.15	1.83	1.61	1.40
500 ~ 900	41F(Code)-ND	2.38	2.02	1.79	1.55
1.0K ~ 1.8K	41F(Code)-ND	2.71	2.30	2.03	1.76
2.0K ~ 3.0K	41F(Code)-ND	3.26	2.77	2.45	2.12
.10 ~ .75	43F(Code)-ND	1.76	1.50	1.32	1.14
1.0 ~ 7.5	43F(Code)-ND	1.40	1.19	1.05	.91
10 ~ 82	43F(Code)-ND	1.14	.97	.86	.74
150 ~ 900	43F(Code)-ND	1.04	.88	.78	.68
1.0K ~ 1.8K	43F(Code)-ND	1.19	1.01	.89	.77
2.0K ~ 2.7K	43F(Code)-ND	1.58	1.34	1.19	1.03
3.0K ~ 4.7K	43F(Code)-ND	1.91	1.62	1.43	1.24
5.0K ~ 6.8K	43F(Code)-ND	2.30	1.96	1.73	1.50
8.0K ~ 10.0K	43F(Code)-ND	2.38	2.02	1.79	1.55
.10 ~ .75	45F(Code)-ND	1.97	1.67	1.48	1.28
1.0 ~ 7.5	45F(Code)-ND	1.37	1.16	1.03	.89
15 ~ 82	45F(Code)-ND	1.19	1.01	.89	.77
100 ~ 900	45F(Code)-ND	1.14	.97	.86	.74
1.2K ~ 2.7K	45F(Code)-ND	1.32	1.12	.99	.86
3.0K ~ 6.8K	45F(Code)-ND	1.54	1.31	1.16	1.00
7.5K ~ 8.2K	45F(Code)-ND	2.02	1.72	1.52	1.31
10.0K ~ 15.0K	45F(Code)-ND	2.14	1.82	1.61	1.39
RoHS Compliant					
.10 ~ .75	41F(Code)E-ND	2.37	2.02	1.78	1.55
1.0 ~ 5.0	41F(Code)E-ND	2.29	1.95	1.72	1.48
10 ~ 25, 39, 40, 50, 68	41F(Code)E-ND	1.98	1.68	1.48	1.29
100, 120, 150 ~ 270, 330, 390 ~ 470	41F(Code)E-ND	2.21	1.88	1.66	1.44
500, 820, 900	41F(Code)E-ND	2.45	2.08	1.84	1.60
1.0K, 1.2K, 1.5K	41F(Code)E-ND	2.79	2.37	2.09	1.81
2.0K, 2.2K, 3.0K	41F(Code)E-ND	3.36	2.85	2.52	2.18
.10 ~ .75	43F(Code)E-ND	1.81	1.55	1.36	1.17
1.0 ~ 7.5	43F(Code)E-ND	1.44	1.23	1.08	.94
10, 15 ~ 82	43F(Code)E-ND	1.17	1.00	.89	.76
100 ~ 220, 250, 270, 330 ~ 390, 470 ~ 680, 750, 800, 900	43F(Code)E-ND	1.07	.91	.80	.70
1.0K ~ 1.2K, 1.5K	43F(Code)E-ND	1.23	1.04	.92	.79
2.0K, 2.5K, 2.7K	43F(Code)E-ND	1.63	1.38	1.23	1.06
3.0K, 3.9K, 4.0K	43F(Code)E-ND	1.97	1.67	1.47	1.28
5.0K, 6.0K, 6.8K	43F(Code)E-ND	2.37	2.02	1.78	1.55
7.5K, 8.0K, 10.0K	43F(Code)E-ND	2.45	2.08	1.84	1.60
.10 ~ .75	45F(Code)E-ND	2.03	1.72	1.52	1.32
1.0 ~ 7.5	45F(Code)E-ND	1.41	1.19	1.06	.92
10 ~ 82	45F(Code)E-ND	1.23	1.04	.92	.79
100, 120, 150, 200 ~ 220, 250 ~ 330, 400, 470, 500, 600, 680, 750, 800	45F(Code)E-ND	1.17	1.00	.89	.76
1.0K ~ 1.2K, 1.5K, 2.0K, 2.5K, 2.7K	45F(Code)E-ND	1.36	1.15	1.02	.89
3.5K, 5.0K, 6.0K, 6.8K	45F(Code)E-ND	1.59	1.35	1.19	1.03
10.0K, 12.5K, 15.0K	45F(Code)E-ND	2.20	1.87	1.66	1.43
20.0K25.0K	45F(Code)E-ND	2.73	2.32	2.05	1.77

Vitreous Enamel Conformal Wirewound Resistors

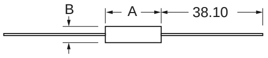

Resistor Series	Maximum Length A (mm)	Maximum Diameter B (mm)	Lead Diameter (mm)
23J	12.70	5.59	.81
25J	25.40	7.01	.81
20J	46.84	10.01	.81

Electrical Specifications:	23J Series	25J Series	20J Series
Resistance Tolerance	±5%	±5%	±5%
Power Rating	3W	5W	10W
Dielectric Withstanding Voltage	1000V	1000V	1000V
Short Time Overload Rated wattage for 5 seconds	5 times	10 times	10 times

Resistance Range (Ω)	Digi-Key* Part No.	Price Each 1	50	100	250
.15 ~ .33	23J(Code)-ND	1.86	1.58	1.39	1.21
.50 ~ 7.5	23J(Code)-ND	1.22	1.04	.92	.80
15 ~ 82	23J(Code)-ND	1.09	.93	.82	.71
125 ~ 450	23J(Code)-ND	.99	.84	.74	.64
470 ~ 900	23J(Code)-ND	1.08	.92	.81	.70
1.0K ~ 4.7K	23J(Code)-ND	1.47	1.25	1.10	.95
5.6K ~ 7.0K	23J(Code)-ND	1.89	1.60	1.42	1.23
7.5K ~ 10.0K	23J(Code)-ND	2.19	1.86	1.64	1.43
.20 ~ .75	25J(Code)-ND	1.53	1.30	1.15	.99
10 ~ 82	25J(Code)-ND	1.40	1.19	1.05	.91
125 ~ 470	25J(Code)-ND	1.15	.98	.86	.75
500 ~ 900	25J(Code)-ND	1.35	1.14	1.01	.88
1.0K ~ 4.7K	25J(Code)-ND	1.61	1.37	1.21	1.05
5.6K ~ 9.0K	25J(Code)-ND	2.03	1.73	1.52	1.32
10.0K ~ 15.0K	25J(Code)-ND	2.24	1.91	1.68	1.46
16.0K ~ 25.0K	25J(Code)-ND	2.65	2.25	1.99	1.72
.10 ~ .75	20J(Code)-ND	2.00	1.70	1.50	1.30
10 ~ 82	20J(Code)-ND	1.82	1.54	1.36	1.18
100 ~ 900	20J(Code)-ND	1.65	1.40	1.24	1.07
1.0K ~ 2.7K	20J(Code)-ND	1.98	1.68	1.48	1.29
3.0K ~ 4.7K	20J(Code)-ND	2.25	1.92	1.69	1.47
5.0K ~ 8.5K	20J(Code)-ND	2.58	2.19	1.94	1.68
10.0K ~ 22.5K	20J(Code)-ND	2.94	2.50	2.20	1.79
RoHS Compliant					
.10, .15 ~ .33	23J(Code)E-ND	1.86	1.58	1.39	1.21
.50 ~ 7.5	23J(Code)E-ND	1.28	1.09	.97	.84
10 ~ 82	23J(Code)E-ND	1.14	.98	.86	.75
100 ~ 400	23J(Code)E-ND	1.04	.88	.78	.67
470 ~ 560 680 ~ 750, 820	23J(Code)E-ND	1.13	.97	.85	.74
1.0K, 1.2K, 1.5K, 2.0K, 2.2K, 2.5K ~ 3.9K, 4.5K, 4.7K	23J(Code)E-ND	1.54	1.31	1.16	1.00
5.0K ~ 6.8K	23J(Code)E-ND	1.98	1.68	1.49	1.29
8.0K, 10.0K	23J(Code)E-ND	2.30	1.95	1.72	1.50
.10, .15 ~ .75	25J(Code)E-ND	1.61	1.37	1.21	1.04
1.0 ~ 7.5	25J(Code)E-ND	1.54	1.31	1.16	1.00
10 ~ 33, 40 ~ 50, 68 ~ 82	25J(Code)E-ND	1.47	1.25	1.10	.96
100 ~ 150, 200 ~ 220, 250 ~ 470	25J(Code)E-ND	1.21	1.03	.90	.79
500 ~ 680, 750, 800, 900	25J(Code)E-ND	1.42	1.20	1.06	.92
1.0K, 1.2K, 1.5K, 18 ~ 2.2K, 2.5K, 3.0K ~ 3.5K, 4.0K ~ 4.7K	25J(Code)E-ND	1.69	1.44	1.27	1.10
5.0K ~ 7.0K, 8.0K, 8.2K, 9.0K	25J(Code)E-ND	2.13	1.82	1.60	1.39
10.0K, 12.0K, 15.0K	25J(Code)E-ND	2.35	2.01	1.76	1.53
20.0K, 22.0K, 25.0K	25J(Code)E-ND	2.78	2.36	2.09	1.81
.10 ~ .13, .20, .25, .50	20J(Code)E-ND	2.00	1.70	1.50	1.30
1.0 ~ 7.5	20J(Code)E-ND	1.94	1.65	1.45	1.26
10, 15 ~ 35, 40, 50 ~ 82	20J(Code)E-ND	1.82	1.54	1.36	1.18
100 ~ 220, 250 ~ 330, 390 ~ 500, 680, 750	20J(Code)E-ND	1.65	1.40	1.24	1.07
1.0K, 1.2K ~ 1.75K, 2.0K, 2.2K, 2.5K	20J(Code)E-ND	1.98	1.68	1.48	1.29
3.0K, 3.3K, 3.9K, 4.7K	20J(Code)E-ND	2.25	1.92	1.69	1.47
5.0K, 6.0K, 6.8K, 8.0K, 8.2K, 9.0K	20J(Code)E-ND	2.58	2.19	1.94	1.68
10.0K, 15.0K, 20.0K, 22.0K	20J(Code)E-ND	2.94	2.50	2.20	1.91
25.0K	20J(Code)E-ND	3.32	2.82	2.49	2.15

RESISTANCE VALUE CHART (for Silicone and Vitreous Wirewound Resistors)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
.10 (R10)	3.0 (3R0)	30 (30R)	120 (120)	390 (390)	900 (900)	2.7K (2K7)	7.0K (7K0)•	16.0K (16K)•
.13 (R13)	4.0 (4R0)	33 (33R)	125 (125)	400 (400)	1.0K (1K0)	3.0K (3K0)	7.5K (7K5)	17.5K (17K5)•
.15(R15)	5.0 (5R0)	35 (35R)	150 (150)	450 (450)§•	1.1K (1K1)	3.3K (3K3)§•	8.0K (8K0)	18.0K (18K)•
.20 (R20)	7.5 (7R5)	39 (39R)	180 (180)	470 (470)	1.2K (1K2)	3.5K (3K5)	8.2K (8K2)	20.0K (20K)
.25 (R25)	10 (10R)	40 (40R)	200 (200)	500 (500)	1.25K (1K25)•	3.9K (3K9)	8.5K (8K5)•	22.0K (22K)•
.30 (R30)	12 (12R)	47 (47R)	220 (220)	560 (560)	1.5K (1K5)	4.0K (4K0)	9.0K (9K0)•	22.5K (22K5)•
.33 (R33)	15 (15R)	50 (50R)	225 (225)§	600 (600)	1.75K (1K75)§•	4.5K (4K5)§•	10.0K (10K)	25.0K (25K)
.50 (R50)	18 (18R)	56 (56R)	250 (250)	680 (680)	1.8K (1K8)§◊	4.7K (4K7)§	11.0K (11K)•	
.75 (R75)	20 (20R)	68 (68R)	270 (270)	700 (700)§	2.0K (2K0)	5.0K (5K0)	12.0K (12K)•	
1.0 (1R0)	22 (22R)	75 (75R)	300 (300)	750 (750)	2.2K (2K2)	5.6K (5K6)	12.5K (12K5)	
1.5 (1R5)	25 (25R)	82 (82R)	330 (330)	800 (800)	2.25K (2K25)§•	6.0K (6K0)	13.5K (13K5)•	
2.0 (2R0)	27 (27R)	100 (100)	350 (350)	820 (820)	2.5K (2K5)	6.8K (6K8)	15.0K (15K)	

• Value not available in Silicone-Ceramic Conformal § Not available in Silicone-Ceramic Conformal RoHS Compliant

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code) ◊ Not available in RoHS Compliant

Wirewound Rheostats

12.5, 25 and 50 Watt

† 12.5 watt uses knob **5151-ND**
†† 25 and 50 watt uses knob **5150-ND**

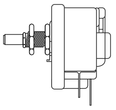

	RES	RHS	RJS
Wattage	12.5 W†	25W††	50W††
Res. Tolerance	±10%	±10%	±10%
Core Diameter (mm)	22.23	39.69	58.74
Shaft Diameter (mm)	3.18	6.35	6.35
Running Torque	1 ~ 6 in. oz.	.25 ~ .5 in. lb.	.25 ~ 2 in. lb.
Weight	.6 oz.	.19 lbs.	.32 lbs.
Rotation	300° ±5%	300° ±5%	300° ±5%
Memcor-Truohm Equivalent	RH12	RH25	RH50

RESISTANCE VALUE CHARTS

RES Series - 12.5 / RHS Series - 25 Watt

Value (Code)	Value (Code)	Value (Code)	Value (Code)
1.0 (1R0)	15 (15R)	175 (175)	1.5K (1K5)
2.0 (2R0)	25 (25R)	250 (250)	2.5K (2K5)
3.0 (3R0)	50 (50R)	350 (350)	3.5K (3K5)
6.0 (6R0)	75 (75R)	500 (500)	5.0K (5K0)
8.0 (8R0)	100 (100)	750 (750)	10.0K (10K)
10 (10R)	125 (125)	1.0K (1K0)	

RJS Series - 50 Watt

Value (Code)	Value (Code)	Value (Code)
.50 (R50)	125 (125)	2.5K (2K5)
1.0 (1R0)	150 (150)	5.0K (5K0)
6.0 (6R0)	225 (225)	10.0K (10K)
35 (35R)	500 (500)	
50 (50R)	1.0K (1K0)	

Resistance Range (Ω)	Digi-Key* Part No.	Price Each 1	10	100	250
2.0 ~ 8.0	RES(Code)-ND	22.06	19.86	15.44	14.34
15 ~ 350	RES(Code)-ND	20.91	18.82	13.59	12.55
500 ~ 1.5K	RES(Code)-ND	21.47	19.32	15.03	13.96
3.5K ~ 5.0K	RES(Code)-ND	22.85	20.56	15.99	14.85
10.0K	RES(Code)-ND	24.68	22.22	17.29	16.04
1.0 ~ 8.0	RHS(Code)-ND	23.49	21.14	16.44	—
25 ~ 750	RHS(Code)-ND	23.49	21.14	16.44	—
1.0K ~ 5.0K	RHS(Code)-ND	24.30	21.87	17.01	—
2.5K ~ 10.0K	RJS(Code)-ND	29.21	26.29	20.45	17.53
Knob for 25/50W Rheostat	5150-ND	6.55	4.59	—	—
RoHS Compliant					
1.0 ~ 8.0	RES(Code)E-ND	22.06	19.86	15.44	14.34
10 ~ 350	RES(Code)E-ND	20.91	18.82	13.59	12.55
500 ~ 1.5K	RES(Code)E-ND	21.47	19.32	13.96	12.88
2.5K ~ 5.0K	RES(Code)E-ND	22.85	20.56	14.85	13.71
10.0K	RES(Code)E-ND	24.68	22.22	16.04	14.81
1.0 ~ 8.0	RHS(Code)E-ND	24.58	22.12	17.21	14.75
10 ~ 750	RHS(Code)E-ND	23.49	21.14	16.44	14.09
1.0K ~ 5.0K	RHS(Code)E-ND	24.30	21.87	17.01	14.58
10.0K	RHS(Code)E-ND	26.36	23.72	18.45	15.81
.50	RJS(Code)E-ND	35.59	32.03	24.91	21.35
1.0 ~ 6.0	RJS(Code)E-ND	31.78	28.60	22.25	19.07
35 ~ 150	RJS(Code)E-ND	27.81	25.02	19.47	16.68
225 ~ 500	RJS(Code)E-ND	26.72	24.05	18.71	16.03
1.0K ~ 10.0K	RJS(Code)E-ND	29.21	26.29	20.45	17.53

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

WSL Power Metal Strip® SMT Resistors

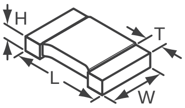

Series	Value Range	Dimensions – (mm) L	W	H	T
WSL0805	All Listed Values	2.03	1.27	.330	.381
WSL1206	All Listed Values	3.20	1.60	.635	.508
WSL2010	.001Ω ~ .006Ω	5.08	2.54	.635	1.47
	.007Ω ~ .50Ω	5.08	2.54	.635	.508
WSL2512	.001Ω ~ .004Ω	6.35	3.18	.635	2.21
	.005Ω ~ .006Ω	6.35	3.18	.635	1.19
	.007Ω ~ .50Ω	6.35	3.18	.635	.762

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
WSL0805	.125	±75	5X Rated Power for 5 Seconds
WSL1206	.25	.002Ω/±275 .003Ω ~ .004Ω/±150 .005Ω ~ .006Ω/±110 .007Ω ~ .2Ω/±75	
WSL2010	.5	.001Ω ~ .002Ω/±275 .003Ω ~ .004Ω/±150 .005Ω ~ .006Ω/±110 .007Ω ~ .50Ω/±75	
WSL2512	1.0*	.001Ω ~ .002/±275 .003Ω ~ .004Ω/±150 .005Ω ~ .006Ω/±110 .007Ω ~ .5Ω/±75	

* For values above .1Ω, derate linearly to 80% rated power at .5Ω.

Resistance Values
WSL0805, 1%, WSLA

.01	.02	.03	.04	.08	.15
.015	.025	.033	.05	.10	.20

Resistance Values
WSL1206, 1%, WSLC

.002	.004	.006	.008	.01	.02	.03	.04	.06	.08	.10	.20
.003	.005	.007	.009	.015	.025	.033	.05	.07	.09	.15	

Resistance Values
WSL2010, 1%, WSLE

.001	.004	.007	.01	.025	.04	.07	.10	.20	.33
.002	.005	.008	.015	.03	.05	.08	.11	.25	.40
.003	.006	.009	.02	.033	.06	.09	.15	.30	.50

Resistance Values
WSL2512, 1%, WSLG

.001	.003	.005	.007	.009	.015	.025	.033	.05	.07	.09	.15	.20	.30	.40
.002	.004	.006	.008	.01	.02	.03	.04	.06	.08	.10	.151	.25	.33	.50

Description	Value Range (Ω)	Digi-Key* Part No.	Pricing 1	10	50	Digi-Key* Part No.	Reel Size	Tape and Reel Pricing 2,000	4,000	5,000	6,000	8,000	10,000
WSL0805, 1%, WSLA	.01 ~ .05	WSLA-(Value)CT-ND	1.02	8.67	38.25	WSLA-(Value)TR-ND	5,000	—	—	320.00/M	—	—	300.00/M
	.08 ~ .20	WSLA-(Value)CT-ND	.82	6.97	30.75	WSLA-(Value)TR-ND	5,000	—	—	256.00/M	—	—	240.00/M
WSL1206, 1%, WSLC	.002 ~ .009	WSLC-(Value)CT-ND	1.57	13.35	58.88	WSLC-(Value)TR-ND	4,000	—	496.00/M	—	—	465.00/M	—
	.01 ~ .06	WSLC-(Value)CT-ND	1.12	9.52	42.00	WSLC-(Value)TR-ND	4,000	—	352.00/M	—	—	330.00/M	—
	.07 ~ .20	WSLC-(Value)CT-ND	.92	7.82	34.50	WSLC-(Value)TR-ND	4,000	—	288.00/M	—	—	270.00/M	—
WSL2010, 1%, WSLE	.001 ~ .004	WSLE-(Value)CT-ND	1.92	16.32	72.00	WSLE-(Value)TR-ND	4,000	—	608.00/M	—	—	570.00/M	—
	.005 ~ .009	WSLE-(Value)CT-ND	1.82	15.47	68.25	WSLE-(Value)TR-ND	4,000	—	576.00/M	—	—	540.00/M	—
	.01 ~ .06	WSLE-(Value)CT-ND	1.27	10.80	47.63	WSLE-(Value)TR-ND	4,000	—	400.00/M	—	—	375.00/M	—
	.07 ~ .50	WSLE-(Value)CT-ND	1.07	9.10	40.13	WSLE-(Value)TR-ND	4,000	—	336.00/M	—	—	315.00/M	—
WSL2512, 1%, WSLG	.001 ~ .004	WSLG-(Value)CT-ND	1.97	16.75	73.88	WSLG-(Value)TR-ND	2,000	624.00/M	—	—	585.00/M	—	546.00/M
	.005 ~ .009	WSLG-(Value)CT-ND	1.87	15.90	70.13	WSLG-(Value)TR-ND	2,000	592.00/M	—	—	555.00/M	—	518.00/M
	.01 ~ .06	WSLG-(Value)CT-ND	1.27	10.80	47.63	WSLG-(Value)TR-ND	2,000	400.00/M	—	—	375.00/M	—	350.00/M
	.07 ~ .50	WSLG-(Value)CT-ND	1.12	9.52	42.00	WSLG-(Value)TR-ND	2,000	352.00/M	—	—	330.00/M	—	308.00/M

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

WSL High Power, Power Metal Strip® SMT Resistors

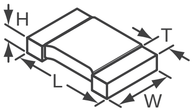

Series	Value Range	Dimensions – (mm) L	W	H	T
WSL0805-18	All Listed Values	2.03	1.27	.330	.381
WSL1206-18	All Listed Values	3.20	1.60	.635	.508
WSL2010-18	.001Ω ~ .006Ω	5.08	2.54	.635	1.47
	.007Ω ~ .50Ω	5.08	2.54	.635	.508
WSL2512-18	.009	6.35	3.18	.635	.762

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
WSL0805-18	.25	±75	5x Rated Power for 5 Seconds
WSL1206-18	.5	.005Ω ~ .006Ω/±110 .007Ω ~ .05Ω/±75	
WSL2018-18	1.0	.001Ω/±275 .006Ω/±110 .007Ω ~ 0.5Ω/±75	
WSL2512-18	2.0	.009Ω/±75	

Resistance Values
WSL0805-18, 1%, WSLB

.01	.03	.05	.20
.02	.033	.10	
.025	.04	.15	

Resistance Values
WSL1206-18, 1%, WSLD

.005	.03
.006	.04
.009	.05

Resistance Values
WSL2010-18, 1%, WSLF

.001	.008	.02	.033	.08	.20
.006	.01	.025	.04	.10	.50
.007	.015	.03	.05	.15	

Resistance Value
WSL2512-18, 1%, WSLH

.009

Description	Value Range (Ω)	Digi-Key* Part No.	Pricing 1	10	50	Digi-Key* Part No.	Reel Size	Tape and Reel Pricing 2,000	4,000	5,000	6,000	8,000	10,000
WSL0805-18, 1%, WSLB	.01 ~ .05	WSLB-(Value)CT-ND	1.32	11.22	49.50	WSLB-(Value)TR-ND	5,000	—	—	416.00/M	—	—	390.00/M
	.10 ~ .20	WSLB-(Value)CT-ND	1.06	9.01	39.75	WSLB-(Value)TR-ND	5,000	—	—	333.00/M	—	—	312.00/M
WSL1206-18, 1%, WSLD	.005 ~ .009	WSLD-(Value)CT-ND	1.91	16.19	71.44	WSLD-(Value)TR-ND	4,000	—	603.00/M	—	—	566.00/M	—
	.03 ~ .05	WSLD-(Value)CT-ND	1.45	12.28	54.19	WSLD-(Value)TR-ND	4,000	—	456.00/M	—	—	428.00/M	—
WSL2010-18, 1%, WSLF	.001	WSLF-(Value)CT-ND	2.49	21.17	93.38	WSLF-(Value)TR-ND	4,000	—	790.00/M	—	—	741.00/M	—
	.006 ~ .008	WSLF-(Value)CT-ND	2.36	20.06	88.50	WSLF-(Value)TR-ND	4,000	—	749.00/M	—	—	702.00/M	—
	.01 ~ .05	WSLF-(Value)CT-ND	1.65	13.98	61.69	WSLF-(Value)TR-ND	4,000	—	520.00/M	—	—	488.00/M	—
	.08 ~ .50	WSLF-(Value)CT-ND	1.39	11.77	51.94	WSLF-(Value)TR-ND	4,000	—	437.00/M	—	—	410.00/M	—
WLS2512-18, 1%, WSLH	.009	WSLH-(Value)CT-ND	2.43	20.61	90.94	WSLH-(Value)TR-ND	2,000	770.00/M	—	—	722.00/M	—	—

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

WSC Wirewound SMT Resistors

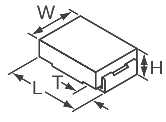

Series	Value Range	Dimensions – (mm) L	W	H	T
WSC01/2	All Listed Values	5.08	2.44	1.02	3.18
WSC2515	All Listed Values	6.35	2.79	1.14	3.81
WSC4527	All Listed Values	11.56	4.24	2.54	6.98
WSC6927	All Listed Values	17.53	7.11	2.54	6.98

Resistance Values
WSC01/2, 1% WSCA

1.0	4.99
2.0	

Resistance Values
WSC2515, 1%, WSCB

.50	2.0	10	100	2.0K
1.0	5.0	50	1.0K	

Resistance Values
WSC4527, 1%, WSCC

1.0	5.0	20	100	1.0K
2.0	10	50	400	2.0K

Resistance Values
WSC6927, 1%, WSCD

.50	10	1.0K
1.0	100	

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
WSC01/2	.5	±50	5X Rated Power for 5 Seconds
WSC2515	1.0	.50Ω/±90 1.0Ω ~ 10/±50 50Ω ~ 2.0KΩ/±20	
WSC4527	2.0	1.0Ω ~ 5.0Ω/±50 10Ω ~ 2.0KΩ/±20	
WSC6927	3.0	.50Ω/±90 1.0Ω/±50 10Ω ~ 1.0KΩ/±20	

Description	Value Range (Ω)	Digi-Key* Part No.	Pricing 1	10	50	Digi-Key* Part No.	Reel Size	Tape and Reel Pricing 725	1,000	1,200	2,000
WSC01/2, 1%, WSCA	1.0 ~ 4.99	WSCA-(Value)CT-ND	1.85	15.73	69.38	WSCA-(Value)TR-ND	2,000	—	—	—	592.00/M
WSC2515, 1%, WSCB	.50	WSCB-(Value)CT-ND	2.57	21.85	96.38	WSCB-(Value)TR-ND	2,000	—	—	—	816.00/M
	1.0 ~ 10	WSCB-(Value)CT-ND	1.92	16.32	72.00	WSCB-(Value)TR-ND	2,000	—	—	—	608.00/M
	50 ~ 100	WSCB-(Value)CT-ND	2.47	21.00	92.63	WSCB-(Value)TR-ND	2,000	—	—	—	784.00/M
	1.0K ~ 2.0K	WSCB-(Value)CT-ND	3.22	27.37	120.75	WSCB-(Value)TR-ND	1,000	—	1024.00	—	—
WSC4527, 1%, WSCC	1.0	WSCC-(Value)CT-ND	2.57	21.85	96.38	WSCC-(Value)TR-ND	1,200	—	—	1020.00/M	—
	2.0 ~ 20	WSCC-(Value)CT-ND	1.92	16.32	72.00	WSCC-(Value)TR-ND	1,200	—	—	760.00/M	—
	50 ~ 400	WSCC-(Value)CT-ND	2.82	23.97	105.75	WSCC-(Value)TR-ND	1,200	—	—	1120.00/M	—
	1.0K ~ 2.0K	WSCC-(Value)CT-ND	3.82	32.47	143.25	WSCC-(Value)TR-ND	1,200	—	—	1520.00/M	—
WSC6927, 1%, WSCD	.50 ~ 1.0	WSCD-(Value)CT-ND	4.22	35.87	158.25	WSCD-(Value)TR-ND	725	1522.50	—	—	—
	10 ~ 1.0K	WSCD-(Value)CT-ND	3.72	31.62	139.50	WSCD-(Value)TR-ND	725	1341.25	—	—	—

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

WSR Power Metal Strip® SMT Resistor

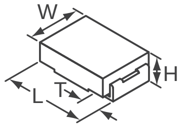

Resistance Values
WSR2, 1%, WSRA

.001	.004	.007	.01	.025	.04	.07	.10	.25	.40	1.0
.002	.005	.008	.015	.03	.05	.08	.15	.30	.50	
.003	.006	.009	.02	.033	.06	.09	.20	.33	.75	

Resistance Values
WSR3, 1%, WSRB

.001	.004	.007	.01	.025	.04	.09	.20
.002	.005	.008	.015	.03	.05	.10	
.003	.006	.009	.02	.033	.07	.15	

Series	Value Range	Dimensions – (mm) L	W	H	T
WSR2	All Listed Values	11.56	2.41	2.54	6.98
WSR3	All Listed Values	11.56	2.41	2.54	6.98

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
WSR2	2.0	.001Ω ~ .009/±110 .01Ω ~ .1.0/±75	5X Rated Power for 5 Seconds
WSR3	3.0	.001Ω ~ .009/±110 .01Ω ~ .20/±75	4X Rated Power for 5 Seconds

Description	Value Range (Ω)	Digi-Key* Part No.	Pricing 1	10	50	Digi-Key* Part No.	Reel Size	Tape and Reel Pricing 1,500	6,000
WSR2, 1%, WSRA	.001 ~ .004	WSRA-(Value)CT-ND	2.47	21.00	92.63	WSRA-(Value)TR-ND	1,500	980.00/M	784.00/M
	.005 ~ .009	WSRA-(Value)CT-ND	2.32	19.72	87.00	WSRA-(Value)TR-ND	1,500	920.00/M	736.00/M
	.01 ~ .09	WSRA-(Value)CT-ND	1.92	16.32	72.00	WSRA-(Value)TR-ND	1,500	760.00/M	608.00/M
	.10 ~ 1.0	WSRA-(Value)CT-ND	1.72	14.62	64.50	WSRA-(Value)TR-ND	1,500	680.00/M	544.00/M
WSR3, 1%, WSRB	.001 ~ .004	WSRB-(Value)CT-ND	2.52	21.42	94.50	WSRB-(Value)TR-ND	1,500	1000.00/M	800.00/M
	.005 ~ .009	WSRB-(Value)CT-ND	2.42	20.57	90.75	WSRB-(Value)TR-ND	1,500	960.00/M	768.00/M
	.01 ~ .09	WSRB-(Value)CT-ND	1.45	12.33	54.38	WSRB-(Value)TR-ND	1,500	580.00/M	464.00/M
	.10 ~ .20	WSRB-(Value)CT-ND	1.77	15.05	66.38	WSRB-(Value)TR-ND	1,500	700.00/M	560.00/M

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

WSL3637 Power Metal Strip® 4 Terminal SMT Resistors

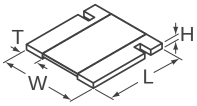

Resistance Values
WSL3637, 1%, WSLI

.003	.006	.009
.004	.007	.01
.005	.008	

Series	Value Range	Dimensions – (mm) L	W	H	T
WSL3637	All Listed Values	9.40	9.14	.635	2.18

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
WSL3637	3.0	.003 ~ .01/±50	5X Rated Power for 5 Seconds

Description	Value Range (Ω)	Digi-Key* Part No.	Pricing 1	10	50	Digi-Key* Part No.	Reel Size	Tape and Reel Pricing 4,000	8,000
WSL3637, 1%, WSLI	.003 ~ .004	WSLI-(Value)CT-ND	2.12	18.02	79.50	WSLI-(Value)TR-ND	4,000	672.00/M	630.00/M
	.005 ~ .009	WSLI-(Value)CT-ND	2.02	17.17	75.75	WSLI-(Value)TR-ND	4,000	640.00/M	600.00/M
	.01	WSLI-(Value)CT-ND	1.42	12.07	53.25	WSLI-(Value)TR-ND	4,000	448.00/M	420.00/M

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

CW Series Silicone Coated Wirewound Resistors

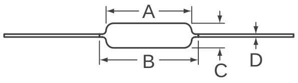

Series	Dimensions – (mm) A	B (Maximum)	C	D
CW001	10.31	11.10	2.39	.508
CW02C	12.70	15.06	5.54	1.02
CW02B	14.27	15.80	4.78	.813
CW005	22.22	25.40	7.92	1.02
CW010	45.24	47.62	9.52	1.02

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
CW001	1.0	.15Ω ~ .50Ω/±90 1.0Ω ~ 4.0Ω/±50 10Ω ~ 4.7KΩ/±30	5X Rated Power for 5 Seconds
CW02C	3.25	.10Ω ~ .51Ω/±90 1.0Ω ~ 4.0Ω/±50 10Ω ~ 15KΩ/±30	
CW02B	3.75	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 15KΩ/±30	
CW005	6.5	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 50KΩ/±30	10X Rated Power for 5 Seconds
CW010	13	.10Ω ~ .50Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 100KΩ/±30	

Resistance Values
CW001, 5%, CWA

.15	15	100	1.0K
.20	20	150	4.7K
30	22	270	
.50	27	330	
1.0	40	390	
4.0	47	560	
10	68	820	

Resistance Values
CW02B, 5%, CWC

.10	.75	4.7	18	35	75	200	350	680	1.1K	2.7K	5.6K	10K
.15	1.0	5.0	20	39	82	220	390	700	1.2K	3.0K	6.0K	12.5K
.20	1.5	5.6	22	40	100	225	400	750	1.5K	3.5K	6.8K	15K
.25	2.0	7.5	25	47	120	250	470	800	1.8K	3.9K	7.0K	
.30	2.5	10	27	50	125	270	500	820	2.0K	4.0K	7.5K	
.33	3.0	12	30	56	150	300	560	900	2.2K	4.7K	8.2K	
.50	4.0	15	33	68	180	330	600	1.0K	2.5K	5.0K	9.0K	

Resistance Values
CW02C, 5% CWB

.10	4.0	35	220	1.0K	8.2K
.20	10	50	250	2.0K	10K
.30	12	68	270	2.2K	15K
.33	15	82	300	2.7K	
.51	18	100	330	3.9K	
1.0	20	120	350	4.7K	
1.5	22	150	390	5.0K	
2.0	30	180	470	5.6K	
3.0	33	200	820	6.8K	

Resistance Values
CW005, 5%, CWD

.10	1.5	10	33	82	250	560	1.1K	3.5K	7.5K	25K
.15	2.0	12	35	100	270	600	1.2K	3.9K	8.0K	40K
.20	2.5	15	39	120	300	680	1.5K	4.0K	8.2K	50K
.30	3.0	18	40	125	330	700	1.8K	4.7K	9.0K	
.33	4.0	20	47	150	350	750	2.0K	5.0K	10K	
.50	4.7	22	50	180	390	800	2.2K	5.6K	12.5K	
.51	5.0	25	56	200	400	820	2.5K	6.0K	15K	
.75	5.6	27	68	220	470	900	2.7K	6.8K	18K	
1.0	7.5	30	75	225	500	1.0K	3.0K	7.0K	20K	

Resistance Values
CW010, 5% CWE

.10	3.0	18	40	120	300	750	2.5K	5.6K	18K
.20	4.0	20	47	125	330	800	2.7K	6.0K	20K
.30	4.7	22	50	150	350	1.0K	3.0K	6.8K	25K
.33	5.0	25	56	180	400	1.2K	3.5K	7.5K	40K
.50	7.5	27	68	200	470	1.5K	3.9K	8.2K	50K
1.0	10	30	75	220	500	1.8K	4.0K	9.0K	100K
1.5	12	33	82	250	600	2.0K	4.7K	10K	
2.0	15	35	100	270	680	2.2K	5.0K	15K	

Description	Value Range (Ω)	Digi-Key* Part No.	Pricing 1	10	50	Digi-Key* Part No.	Reel Size	Tape and Reel Pricing 500	1,000	2,500	5,000
CW001, 5%, CWA	.15 ~ .50	CWA-(Value)CT-ND	.59	5.27	24.57	CWA-(Value)TR-ND	1,000	—	391.00	—	368.00/M
	1.0 ~ 10	CWA-(Value)CT-ND	.39	3.47	16.17	CWA-(Value)TR-ND	1,000	—	255.00	—	240.00/M
	15 ~ 1.0K	CWA-(Value)CT-ND	.41	3.69	17.22	CWA-(Value)TR-ND	1,000	—	272.00	—	256.00/M
	4.7K	CWA-(Value)CT-ND	.74	6.62	30.87	CWA-(Value)TR-ND	1,000	—	493.00	—	464.00/M
CW02B, 5%, CWC	.10 ~ .75	CWC-(Value)CT-ND	.58	5.22	24.36	CWC-(Value)TR-ND	1,000	—	388.00	—	365.00/M
	1.0 ~ 1.0K	CWC-(Value)CT-ND	.41	3.69	17.22	CWC-(Value)TR-ND	1,000	—	272.00	—	256.00/M
	1.1K ~ 3.0K	CWC-(Value)CT-ND	.46	4.14	19.32	CWC-(Value)TR-ND	1,000	—	306.00	—	288.00/M
	3.5K ~ 12.5K	CWC-(Value)CT-ND	.66	5.94	27.72	CWC-(Value)TR-ND	1,000	—	442.00	—	416.00/M
	15K	CWC-(Value)CT-ND	.74	6.62	30.87	CWC-(Value)TR-ND	1,000	—	493.00	—	464.00/M
CW02C, 5%, CWB	.10 ~ .51	CWB-(Value)CT-ND	.56	5.02	23.42	CWB-(Value)TR-ND	1,000	—	372.00	—	350.00/M
	1.0 ~ 1.0K	CWB-(Value)CT-ND	.41	3.69	17.22	CWB-(Value)TR-ND	1,000	—	272.00	—	256.00/M
	2.0K ~ 2.7K	CWB-(Value)CT-ND	.46	4.14	19.32	CWB-(Value)TR-ND	1,000	—	306.00	—	288.00/M
	3.9K ~ 10K	CWB-(Value)CT-ND	.66	5.94	27.72	CWB-(Value)TR-ND	1,000	—	442.00	—	416.00/M
	15K	CWB-(Value)CT-ND	.74	6.62	30.87	CWB-(Value)TR-ND	1,000	—	493.00	—	464.00/M
CW005, 5%, CWD	.10 ~ .75	CWD-(Value)CT-ND	.73	6.56	30.61	CWD-(Value)TR-ND	500	259.00	—	489.00/M	—
	1.0 ~ 1.0K	CWD-(Value)CT-ND	.56	5.04	23.52	CWD-(Value)TR-ND	500	198.00	—	374.00/M	—
	1.1K ~ 10K	CWD-(Value)CT-ND	.64	5.72	26.67	CWD-(Value)TR-ND	500	225.00	—	425.00/M	—
	12.5K ~ 20K	CWD-(Value)CT-ND	.89	7.97	37.17	CWD-(Value)TR-ND	500	315.00	—	595.00/M	—
	25K ~ 50K	CWD-(Value)CT-ND	1.01	9.09	42.42	CWD-(Value)TR-ND	500	360.00	—	680.00/M	—
CW010, 5%, CWE	.10 ~ .50	CWE-(Value)CT-ND	1.13	10.19	47.57	CWE-(Value)TR-ND	500	404.00	—	763.00/M	—
	1.0 ~ 1.0K	CWE-(Value)CT-ND	.91	8.19	38.22	CWE-(Value)TR-ND	500	324.00	—	612.00/M	—
	1.2K ~ 10K	CWE-(Value)CT-ND	1.11	9.99	46.62	CWE-(Value)TR-ND	500	396.00	—	748.00/M	—
	15K ~ 20K	CWE-(Value)CT-ND	1.16	10.44	48.72	CWE-(Value)TR-ND	500	414.00	—	782.00/M	—
	25K ~ 50K	CWE-(Value)CT-ND	.91	8.19	38.22	CWE-(Value)TR-ND	500	324.00	—	612.00/M	—
	100K	CWE-(Value)CT-ND	.99	8.87	41.37	CWE-(Value)TR-ND	500	351.00	—	663.00/M	—

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

CP Series Wirewound and Metal Oxide Ceramic Case Resistors

Lead diameter:
Wirewound .914 (mm)
Metal Oxide .813 (mm)

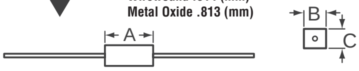

Series	Dimensions – (mm) A	B	C
CP0005	22.22	9.52	8.73
CP0010	47.62	9.52	8.73

Resistance Values
CP0005, 5%, CPA, Wirewound

.10	.56	2.4	5.6	16	39	82
.20	.68	2.7	6.8	18	40	100
.30	.75	3.0	7.5	20	43	110
.33	.82	3.3	8.2	22	47	120
.39	1.0	3.9	9.1	24	51	130
.47	1.2	4.0	10	27	56	
.50	1.5	4.7	12	30	68	
.51	2.0	5.1	15	33	75	

Resistance Values
CP0005, 5%, CPC, Metal Oxide

150	390	1.0K	2.4K	7.5K
180	400	1.2K	2.7K	8.2K
200	470	1.3K	3.0K	9.1K
220	510	1.5K	3.3K	10K
240	560	1.6K	3.9K	
270	680	1.8K	5.1K	
300	750	2.0K	6.2K	
330	820	2.2K	6.8K	

Resistance Values
CP0010, 5%, CPB, Wirewound

.10	3.3	10	33	120	330
.33	4.0	15	39	150	360
.50	4.7	16	47	160	400
1.0	5.1	18	56	180	470
1.5	5.6	20	62	200	750
2.0	6.2	24	68	220	820
2.7	6.8	27	75	270	
3.0	7.5	30	100	300	

Resistance Values
CP0010, 5%, CPD, Metal Oxide

1.0K	3.9K
1.1K	4.0K
1.2K	6.8K
1.6K	
1.8K	
2.0K	
2.2K	
3.3K	

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
CP0005 Wirewound	5	.10Ω ~ .82Ω/± 600 1.0Ω ~ 130Ω/±300	5X Rated Power for 5 Seconds
CP0005 Metal Oxide	5	150Ω ~ 10KΩ/± 300	
CP0010 Wirewound	10	.10Ω ~ .50Ω/±600 1.0Ω ~ 820Ω/±300	
CP0010 Metal Oxide	10	1.0KΩ ~ 6.8KΩ/±400	

Description	Value Range (Ω)	Digi-Key* Part No.	Price Each 1	50	100
CP0005, 5%, CPA, Wirewound	.10 ~ .82	CPA-(Value)-ND	.99	.90	.80
	1.0 ~ 130	CPA-(Value)-ND	.79	.71	.63
CP0005, 5%, CPC, Metal Oxide	150 ~ 560	CPC-(Value)-ND	.79	.71	.63
	680 ~ 10K	CPC-(Value)-ND	.94	.85	.75
CP0010, 5%, CPB, Wirewound	.10 ~ .50	CPB-(Value)-ND	1.42	1.28	1.14
	1.0 ~ 820	CPB-(Value)-ND	1.06	.96	.85
CP0010, 5%, CPD, Metal Oxide	1.0K ~ 6.8K	CPD-(Value)-ND	1.36	1.23	1.09

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

LVR Series Low Value Wirewound Resistors

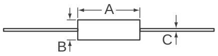

Resistance Values
LVR01, 1% LVRA

.01	.033
.02	.05
.025	.10
.03	

Resistance Values
LVR03, 1%, LVRB

.005	.025	.07
.01	.03	.10
.015	.04	.15
.02	.05	.20

Resistance Values
LVR05, 1%, LVRC

.005	.025	.07	.30
.01	.03	.10	
.015	.04	.15	
.02	.05	.20	

Series	Dimensions – (mm) A	B (Maximum)	C
LVR01	10.85	2.92	.508
LVR03	14.22	5.21	.813
LVR05	23.50	8.38	1.02

Series	Power Rating W	Short Time Overload
LVR01	1.0	5X Rated Power for 5 Seconds
LVR03	3.0	
LVR05	5.0	

Description	Value Range (Ω)	Digi-Key* Part No.	Cut Tape Pricing 1	10	50	Digi-Key* Part No.	Reel Size	Tape and Reel Pricing 500	1,000	2,500	5,000
LVR01, 1%, LVRA	.01 ~ .05	LVRA-(Value)CT-ND	1.31	11.79	55.02	LVRA-(Value)TR-ND	1,000	—	884.00	—	832.00/M
	.10	LVRA-(Value)CT-ND	1.26	11.34	52.92	LVRA-(Value)TR-ND	1,000	—	850.00	—	800.00/M
LVR03, 1%, LVRB	.005	LVRB-(Value)CT-ND	1.51	13.59	63.42	LVRB-(Value)TR-ND	1,000	—	1020.00	—	960.00/M
	.01 ~ .05	LVRB-(Value)CT-ND	1.31	11.79	55.02	LVRB-(Value)TR-ND	1,000	—	884.00	—	832.00/M
	.07 ~ .20	LVRB-(Value)CT-ND	1.26	11.34	52.92	LVRB-(Value)TR-ND	1,000	—	850.00	—	800.00/M
LVR05, 1%, LVRC	.005	LVRC-(Value)CT-ND	1.81	16.29	76.02	LVRC-(Value)TR-ND	500	648.00	—	1224.00/M	—
	.01 ~ .04	LVRC-(Value)CT-ND	1.61	14.49	67.62	LVRC-(Value)TR-ND	500	576.00	—	1088.00/M	—
	.05 ~ .30	LVRC-(Value)CT-ND	1.51	13.59	63.42	LVRC-(Value)TR-ND	500	540.00	—	1020.00/M	—

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

RS Series Silicone Coated Wirewound Resistors

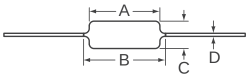

Series	Dimensions – (mm) A	B (Maximum)	C	D
RS01A	10.31	11.10	2.39	.508
RS02B	14.22	15.80	4.75	.813
RS05	22.23	25.40	7.92	1.02
RS010	45.21	47.50	9.53	1.02

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
RS01A	1.0	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 10KΩ/±20	5X Rated Power for 5 Seconds
RS02B	3.0	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 25KΩ/±20	
RS05	5.0	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 100KΩ/±20	10X Rated Power for 5 Seconds
RS010	10	.10Ω ~ .75Ω/±90 1.0Ω ~ 7.5Ω/±50 10Ω ~ 100KΩ/±20	

Resistance Values
RS01A, 1%, RSA

.10	.30	1.5	3.3	10	22	39	68	150	270	400	680	1.0K	2.0K	3.5K	5.6K	8.2K
.13	.33	2.0	4.0	12	25	40	75	180	300	470	700	1.1K	2.2K	3.9K	6.0K	10K
.15	.50	2.5	4.7	15	30	47	82	200	330	500	750	1.2K	2.5K	4.0K	6.8K	
.20	.75	2.7	5.0	18	33	50	100	220	350	560	800	1.5K	2.7K	4.7K	7.0K	
.25	1.0	3.0	7.5	20	35	56	120	250	390	600	820	1.8K	3.0K	5.0K	7.5K	

Resistance Values
RS02B, 1%, RSB

.10	2.5	18	68	250	700	2.5K	7.5K
.13	2.7	20	70	270	750	2.7K	8.0K
.15	3.0	22	75	300	800	3.0K	8.2K
.20	3.3	25	82	330	820	3.5K	10K
.25	3.9	30	100	350	900	3.9K	12.5K
.30	4.0	33	120	390	1.0K	4.0K	15K
.33	4.7	35	125	400	1.1K	4.7K	20K
.50	5.0	39	150	470	1.2K	5.0K	25K
.75	7.5	40	180	500	1.5K	5.6K	
1.0	10	47	200	560	1.8K	6.0K	
1.5	12	50	220	600	2.0K	6.8K	
2.0	15	56	225	680	2.2K	7.0K	

Resistance Values
RS05, 1%, RSC

.10	2.0	15	50	200	500	1.2K	4.7K	15K
.13	2.5	18	56	220	560	1.5K	5.0K	20K
.15	3.0	20	68	225	600	1.8K	5.6K	25K
.20	3.3	22	70	250	680	2.0K	6.0K	39K
.25	3.9	25	75	270	700	2.2K	6.8K	47K
.30	4.0	30	82	300	750	2.5K	7.0K	50K
.33	4.7	33	100	330	800	2.7K	7.5K	56K
.50	5.0	35	120	350	820	3.0K	8.0K	100K
.75	7.5	39	125	390	900	3.5K	8.2K	
1.0	10	40	150	400	1.0K	3.9K	10K	
1.5	12	47	180	470	1.1K	4.0K	12.5K	

Resistance Values
RS010, 1%, RSD

.10	2.0	20	70	270	800	3.0K	20K
.13	2.7	25	75	300	820	3.5K	25K
.15	3.0	30	100	330	1.0K	4.7K	39K
.20	3.9	33	120	350	1.1K	5.0K	47K
.25	4.0	35	125	400	1.2K	6.8K	50K
.30	5.0	39	150	470	1.5K	7.0K	100K
.33	7.5	40	180	500	1.8K	7.5K	
.50	10	47	200	560	2.0K	8.2K	
.75	12	50	220	600	2.2K	10K	
1.0	12.1	56	225	680	2.5K	12.5K	
1.5	15	68	250	750	2.7K	15K	

Description	Value Range (Ω)	Digi-Key* Part No.	Cut Tape Pricing 1	10	50	Digi-Key* Part No.	Reel Size	Tape and Reel Pricing 500	1,000	2,500	5,000
RS01A, 1%, RSA	.10 ~ .75	RSA-(Value)CT-ND	1.36	12.24	57.12	RSA-(Value)TR-ND	1,000	—	918.00	—	864.00/M
	1.0 ~ 1.0K	RSA-(Value)CT-ND	1.11	9.99	46.62	RSA-(Value)TR-ND	1,000	—	748.00	—	704.00/M
	1.1K ~ 3.5K	RSA-(Value)CT-ND	1.19	10.67	49.77	RSA-(Value)TR-ND	1,000	—	799.00	—	752.00/M
	3.9K ~ 10K	RSA-(Value)CT-ND	1.71	15.39	71.82	RSA-(Value)TR-ND	1,000	—	1156.00	—	1088.00/M
RS02B, 1%, RSB	.10 ~ .75	RSB-(Value)CT-ND	1.31	11.79	55.02	RSB-(Value)TR-ND	1,000	—	884.00	—	832.00/M
	1.0 ~ 1.0K	RSB-(Value)CT-ND	.89	7.97	37.17	RSB-(Value)TR-ND	1,000	—	595.00	—	560.00/M
	1.1K ~ 10K	RSB-(Value)CT-ND	1.06	9.54	44.52	RSB-(Value)TR-ND	1,000	—	714.00	—	672.00/M
	12.5K ~ 20K	RSB-(Value)CT-ND	1.56	14.04	65.52	RSB-(Value)TR-ND	1,000	—	1054.00	—	992.00/M
	25K	RSB-(Value)CT-ND	3.11	27.99	130.62	RSB-(Value)TR-ND	1,000	—	2108.00	—	1984.00/M
RS05, 1%, RSC	.10 ~ .75	RSC-(Value)CT-ND	1.46	13.14	61.32	RSC-(Value)TR-ND	500	522.00	—	986.00/M	—
	1.0 ~ 1.0K	RSC-(Value)CT-ND	1.04	9.32	43.47	RSC-(Value)TR-ND	500	369.00	—	697.00/M	—
	1.1K ~ 10K	RSC-(Value)CT-ND	1.19	10.67	49.77	RSC-(Value)TR-ND	500	423.00	—	799.00/M	—
	12.5K ~ 25K	RSC-(Value)CT-ND	1.39	12.47	58.17	RSC-(Value)TR-ND	500	495.00	—	935.00/M	—
	39K ~ 50K	RSC-(Value)CT-ND	1.69	15.17	70.77	RSC-(Value)TR-ND	500	603.00	—	1139.00/M	—
	56K	RSC-(Value)CT-ND	2.14	19.22	89.67	RSC-(Value)TR-ND	500	765.00	—	1445.00/M	—
	100K	RSC-(Value)CT-ND	4.26	38.34	178.92	RSC-(Value)TR-ND	500	1530.00	—	2890.00/M	—
RS010, 1%, RSD	.10 ~ .75	RSD-(Value)CT-ND	1.81	16.29	76.02	RSD-(Value)TR-ND	500	648.00	—	1224.00/M	—
	1.0 ~ 1.0K	RSD-(Value)CT-ND	1.34	12.02	56.07	RSD-(Value)TR-ND	500	477.00	—	901.00/M	—
	1.1K ~ 10K	RSD-(Value)CT-ND	1.34	12.02	56.07	RSD-(Value)TR-ND	500	477.00	—	901.00/M	—
	12.5K ~ 25K	RSD-(Value)CT-ND	1.81	16.29	76.02	RSD-(Value)TR-ND	500	648.00	—	1224.00/M	—
	39K ~ 50K	RSD-(Value)CT-ND	2.09	18.77	87.57	RSD-(Value)TR-ND	500	747.00	—	1411.00/M	—
	100K	RSD-(Value)CT-ND	2.34	21.02	98.07	RSD-(Value)TR-ND	500	837.00	—	1581.00/M	—

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

HL Series Tubular Wirewound Resistors

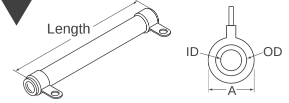

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
HL025	25	1.0Ω ~ 5.0Ω/±50 10Ω ~ 50KΩ/±30	10X Rated Power for 5 Seconds
HL050	50	1.0Ω ~ 5.0Ω/±50 10Ω ~ 50KΩ/±30	
HL100	100	1.0Ω ~ 5.0Ω/±50 10Ω ~ 75KΩ/±30	
HL225	225	1.0Ω ~ 5.0Ω/±50 10Ω ~ 50KΩ/±30	

Resistance Values
HL025, 5%, HLA

1.0	50	750	12K
2.0	100	1.0K	25K
3.0	150	2.5K	50K
5.0	200	4.0K	
10	250	5.0K	
25	500	10K	

Resistance Values
HL050, 5%, HLB

1.0	25	250	4.0K	50K
2.0	50	500	5.0K	
3.0	100	750	10K	
5.0	150	1.0K	12K	
10	200	2.5K	25K	

Series	Dimensions – (mm)			
		Core Dimensions		
	A (Maximum)	Length	OD	ID
HL025	17.46	50.80	14.29	7.94
HL050	17.46	101.60	14.29	7.94
HL100	23.02	165.10	19.05	12.7
HL225	33.34	266.70	28.58	19.05

Resistance Values
HL100, 5%, HLC

1.0	5.0	50	200	750	4.0K	25K
2.0	10	100	250	1.0K	5.0K	50K
3.0	25	150	500	2.5K	10K	75K

Resistance Values
HL225, 5%, HLD

1.0	5.0	50	200	750	4.0K	25K
2.0	10	100	250	1.0K	5.0K	50K
3.0	25	150	500	2.5K	10K	

Description	Value Range (Ω)	Digi-Key* Part No.	Price Each 1	10	25
HL025, 5%, HLA	1.0 ~ 5.0K	HLA-(Value)-ND	3.00	2.73	2.46
HL025, 5%, HLA	10K	HLA-(Value)-ND	3.44	3.13	2.82
HL025, 5%, HLA	12K ~ 25K	HLA-(Value)-ND	3.74	3.40	3.06
HL025, 5%, HLA	50K	HLA-(Value)-ND	8.09	7.35	6.62
HL050, 5%, HLB	1.0 ~ 2.5K	HLB-(Value)-ND	4.65	4.23	3.81
HL050, 5%, HLB	4.0K ~ 12K	HLB-(Value)-ND	4.73	4.30	3.87
HL050, 5%, HLB	25K	HLB-(Value)-ND	5.09	4.63	4.17
HL050, 5%, HLB	50K	HLB-(Value)-ND	6.11	5.55	5.00
HL100, 5%, HLC	1.0 ~ 1.0K	HLC-(Value)-ND	9.13	8.30	7.47
HL100, 5%, HLC	2.5K ~ 25K	HLC-(Value)-ND	9.54	8.68	7.81
HL100, 5%, HLC	50K ~ 75K	HLC-(Value)-ND	10.45	9.50	8.55
HL225, 5%, HLD	1.0 ~ 50K	HLD-(Value)-ND	15.35	13.95	12.56
Mounting Bracket for HL025, HL050		BRACKET203-ND‡	1.26/2	4.20/10	15.75/50
Mounting Bracket for HL100		BRACKET206-ND‡	1.71/2	5.70/10	21.38/50
Mounting Bracket for HL225		BRACKET205-ND‡	1.89/2	6.30/10	23.63/50

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).
‡ Requires 2 brackets per resistor.

HLT225 Series Tapped Tubular Wirewound Resistors

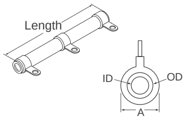

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
HLT225	225	10Ω ~ 1.0K/±30	10X Rated Power for 5 Seconds

Resistance Values
HLT225, 10%, HLTA

10	50	250	1.0K
25	100	500	

Series	Dimensions – (mm)			
		Core Dimensions		
	A (Maximum)	Length	OD	ID
HLT225	33.34	266.70	28.58	19.05

Description	Value Range (Ω)	Digi-Key* Part No.	Price Each 1	10	25
HLT225, 10%, HLTA	10 ~ 1.0K	HLTA-(Value)-ND	18.59	16.90	15.21
Mounting Bracket for HLT-225		BRACKET205-ND‡	1.89/2	6.30/10	23.63/50

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).
‡ Requires 2 brackets per resistor.

HLW Series Tubular Wirewound Resistors

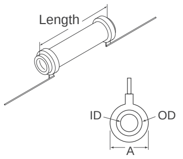

Series	Dimensions – (mm)			
		Core Dimensions		
	A (Maximum)	Length	OD	ID
HLW12	10.32	44.45	7.94	4.76
HLW20	14.29	50.80	11.11	7.94

Resistance Values
HLW12, 5%,
HLWA

10
20
1.0K

Resistance Values
HLW20, 5%,
HLWB

5.0	100	100K
10	20K	
50	50K	

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
HLW12	12	10Ω ~ 1.0K/±30	10X Rated Power for 5 Seconds
HLW20	20	5.0Ω/±50 10Ω ~ 100KΩ/±30	

Description	Value Range (Ω)	Digi-Key* Part No.	Price Each 1	10	25
HLW12, 5%, HLWA	10 ~ 1.0K	HLWA-(Value)-ND	2.89	2.63	2.37
HLW20, 5%, HLWB	5.0 ~ 20K	HLWB-(Value)-ND	3.38	3.08	2.77
HLW20, 5%, HLWB	50K ~ 100K	HLWB-(Value)-ND	4.48	4.08	3.67

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

HLZ 300 Series Edgewound Wirewound Resistors

Series	Dimensions – (mm)			
		Core Dimensions		
	A (Maximum)	Length	OD	ID
HLZ300	28.58	215.90	28.58	19.05

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
HLZ300	300	.30Ω/±90 1.0Ω ~ 8.0Ω/±50 12Ω ~ 25Ω/±30	10X Rated Power for 5 Seconds

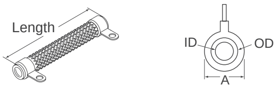

Resistor Values — HLZ300, 10%, HLZA

.30	1.5	8.0	16	25
1.0	5.0	12	20	

Description	Value Range (Ω)	Digi-Key* Part No.	Price Each 1	10	25
HLZ300, 10%, HLZA	.30 ~ 25	HLZA-(Value)-ND	22.36	20.33	18.30
Mounting Bracket for HLZ-300	—	BRACKET205-ND‡	1.89/2	6.30/10	23.63/50

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).
‡ Requires 2 brackets per resistor.

RH Series Aluminum Housed Wirewound Resistors

Series	Dimensions – (mm)			
	A	B	C	D
RH005	11.28	16.41	8.13	28.58
RH010	14.27	20.32	9.91	34.93
RH025	18.26	27.43	13.87	49.23
RH050	39.67	28.96	15.49	70.64

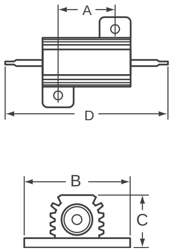

Series	Power Rating W	Temperature Coefficient ppm/°C	Short Time Overload
RH005	5.0	.10Ω ~ .50Ω/±100 1.0Ω ~ 5.0Ω/±50 10Ω ~ 15KΩ/±20	5X Rated Power for 5 Seconds
RH010	10	.20Ω/±100 1.0Ω ~ 2.0Ω/±50 10Ω ~ 25KΩ/±20	
RH025	25	.10Ω/±100 1.0Ω ~ 3.0Ω/±50 12Ω ~ 3KΩ/±20	
RH050	50	.15Ω ~ .50/±100 1.0Ω ~ 8.0Ω/±50 10Ω ~ 2.5KΩ/±20	

Resistance Values
RH005, 1%, RHA

.10	10	100	2.0K
.50	12	150	10K
1.0	25	300	15K
5.0	30	390	

Resistance Values
RH010, 1%, RHB

.20	25	75	332	10K
1.0	33	100	1.0K	25K
2.0	35	300	2.0K	
10	50	330	2.5K	

Resistance Values
RH025, 1%, RHC

.10	15	100	1.0K
1.0	20	200	3.0K
3.0	25	300	
12	40	500	

Resistance Values
RH050, 1% RHD

.15	.50	2.5	8.0	20	250	2.5K
.20	1.0	3.3	10	30	300	
25	1.5	5.0	12	40	500	
.30	2.0	6.0	16	100	1.0K	

Description	Value Range (Ω)	Digi-Key* Part No.	Price Each 1	10	50
RH005, 1%, RHA	.10 ~ .50	RHA-(Value)-ND	4.65	4.19	3.91
RH005, 1%, RHA	1.0 ~ 390	RHA-(Value)-ND	4.43	3.99	3.72
RH005, 1%, RHA	2.0K ~ 10K	RHA-(Value)-ND	4.38	3.94	3.68
RH005, 1%, RHA	15K	RHA-(Value)-ND	4.58	4.12	3.85
RH010, 1%, RHB	.20	RHB-(Value)-ND	8.68	7.81	7.29
RH010, 1%, RHB	1.0 ~ 1.0K	RHB-(Value)-ND	3.08	2.77	2.59
RH010, 1%, RHB	2.0K ~ 10K	RHB-(Value)-ND	3.20	2.88	2.69
RH010, 1%, RHB	25K	RHB-(Value)-ND	4.43	3.99	3.72
RH025, 1%, RHC	.10	RHC-(Value)-ND	9.78	8.80	8.22
RH025, 1%, RHC	1.0 ~ 1.0K	RHC-(Value)-ND	5.10	4.59	4.29
RH025, 1%, RHC	3.0K	RHC-(Value)-ND	4.10	3.69	3.45
RH050, 1%, RHD	.15 ~ .50	RHD-(Value)-ND	12.00	10.80	10.08
RH050, 1%, RHD	1.0 ~ 1.0K	RHD-(Value)-ND	6.25	5.63	5.25
RH050, 1%, RHD	2.5K	RHD-(Value)-ND	5.33	4.80	4.48

*For complete part number, substitute Digi-Key value (from Resistance Value Chart) for (Value).

Panasonic®

Surface Mount Chip Resistor Arrays

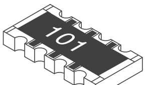

FEATURES:

High Density: • 2 resistors in 0.8mm x 0.6mm size (EXB-14V) • 2 resistors in 1.6mm x 1.6mm size (EXB-V4V) • 4 resistors in 3.2mm x 1.6mm size (EXB-V8V) • 2 resistors in 1.0mm x 1.0mm size (EXB-24V) • 4 resistors in 1.4mm x 0.6mm size (EXB-18V) • 4 resistors in 2.0mm x 1.0mm size (EXB-28V) • 4 resistors in 2.0mm x 1.0mm size (EXB-N8V) • 2 resistors in 1.6mm x 1.6mm size (EXB-34V) • 4 resistors in 3.2mm x 1.6mm size (EXB-38V) • 8 resistors in 3.8mm x 1.6mm size (EXB-2HV) • Improvement of placement efficiency: Placement efficiency of Chip Resistor Array is two or four times that of discrete chip resistors.

SPECIFICATIONS:

• Resistance Tolerance: J: ±5% • Power Rating at 70°C: 1/16W per element; 1/32W for EXB-14V, EXB-28V, EXB-N8V and EXB-18V • Maximum Rated Continuous Working Voltage ‡: 50V; 25V for EXB-2HV; 12.5V for EXB-14V and EXB-18V • Maximum Overload Voltage: 100V; 50V for EXB-2HV; 25V for EXB-14V and EXB-18V • Temperature Characteristic Range: ±200ppm/°C • Operating Temperature Range: -55°C ~ 125°C

EXB-N8V, EXB-V4V and EXB-V8V

Type	Dimensions (mm)								Weight (g/M pcs.)
	L	W	T	A1	A2	B	P	G	
EXB-N8V	2.0	1.0	0.45	0.3	0.3	0.2	0.5	0.30	3.0
EXB-V4V	1.6	1.6	0.60	0.6	—	0.3	0.8	0.45	5.0
EXB-V8V	3.2	1.6	0.60	0.6	0.6	0.3	0.8	0.45	10

‡ Rated continuous working voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Value}}$, or maximum RCWV listed, whichever is less.

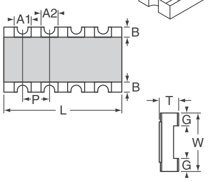

Isolated Terminals

Fig. 1 — 2 Resistors

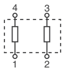

Fig. 2 — 4 Resistors

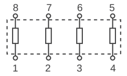

Fig. 3 — 8 Resistors

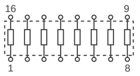

EXB-14V

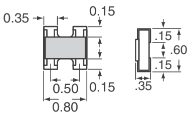

EXB-18V

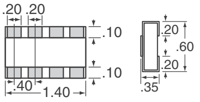

EXB-24V

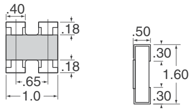

EXB-28V

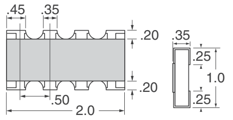

EXB-34V

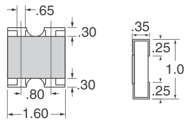

EXB-38V

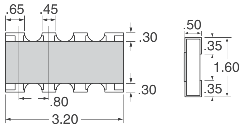

EXB-2HV

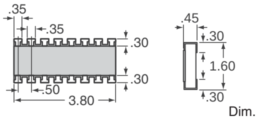

Dim. in mm

EXB-V4V, EXB-V8V, EXB-24V, EXB-34V and EXB-38V Series
Isolated Terminals Resistance Codes (E12 Values)
(Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	3R9 (3R9)	27 (270)	470 (471)	8.2K (822)	150K (154)
1.0 (1R0)	4R3 (4R3)	33 (330)	560 (561)	10K (103)	180K (184)
1.1 (1R1)	4R7 (4R7)	39 (390)	680 (681)	12K (123)	220K (224)
1.2 (1R2)	5R1 (5R1)	47 (470)	820 (821)	15K (153)	270K (274)
1.3 (1R3)	5R6 (5R6)	56 (560)	1.0K (102)	18K (183)	330K (334)
1.5 (1R5)	6R2 (6R2)	68 (680)	1.2K (122)	22K (223)	390K (394)
1.6 (1R6)	6R8 (6R8)	82 (820)	1.5K (152)	27K (273)	470K (474)
1.8 (1R8)	7R5 (7R5)	100 (101)	1.8K (182)	33K (333)	560K (564)
2.0 (2R0)	8R2 (8R2)	120 (121)	2.2K (222)	39K (393)	680K (684)
2.2 (2R2)	9R1 (9R1)	150 (151)	2.7K (272)	47K (473)	820K (824)
2.4 (2R4)	10 (100)	180 (181)	3.3K (332)	56K (563)	1M (105)
2.7 (2R7)	12 (120)	220 (221)	3.9K (392)	68K (683)	
3.0 (3R0)	15 (150)	270 (271)	4.7K (472)	82K (823)	
3.3 (3R3)	18 (180)	330 (331)	5.6K (562)	100K (104)	
3.6 (3R6)	22 (220)	390 (391)	6.8K (682)	120K (124)	

EXB-2HV Series
Isolated Terminals Resistance Codes (E12 Values)
(Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	10 (100)	120 (121)	1.5K (152)	18K (183)	220K (224)
1.0 (1R0)	12 (120)	150 (151)	1.8K (182)	22K (223)	270K (274)
1.2 (1R2)	15 (150)	180 (181)	2.2K (222)	27K (273)	330K (334)
1.5 (1R5)	18 (180)	220 (221)	2.7K (272)	33K (333)	390K (394)
1.8 (1R8)	22 (220)	270 (271)	3.3K (332)	39K (393)	470K (474)
2.2 (2R2)	27 (270)	330 (331)	3.9K (392)	47K (473)	560K (564)
2.7 (2R7)	33 (330)	390 (391)	4.7K (472)	56K (563)	680K (684)
3.3 (3R3)	39 (390)	470 (471)	5.6K (562)	68K (683)	820K (824)
3.9 (3R9)	47 (470)	560 (561)	6.8K (682)	82K (823)	1M (105)
4.7 (4R7)	56 (560)	680 (681)	8.2K (822)	100K (104)	
5.6 (5R6)	68 (680)	820 (821)	10K (103)	120K (124)	
6.8 (6R8)	82 (820)	1.0K (102)	12K (123)	150K (154)	
8.2 (8R2)	100 (101)	1.2K (122)	15K (153)	180K (184)	

EXB-14V and EXB-18V Series
Isolated Terminals Resistance Codes (E12 Values)
(Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	47 (470)	270 (271)	1.5K (152)	8.2K (822)	47K (473)	270K (274)
10 (100)	56 (560)	330 (331)	1.8K (182)	10K (103)	56K (563)	330K (334)
12 (120)	68 (680)	390 (391)	2.2K (222)	12K (123)	68K (683)	390K (394)
15 (150)	82 (820)	470 (471)	2.7K (272)	15K (153)	82K (823)	470K (474)
18 (180)	100 (101)	560 (561)	3.3K (332)	18K (183)	100K (104)	560K (564)
22 (220)	120 (121)	680 (681)	3.9K (392)	22K (223)	120K (124)	680K (684)
27 (270)	150 (151)	820 (821)	4.7K (472)	27K (273)	150K (154)	820K (824)
33 (330)	180 (181)	1.0K (102)	5.6K (562)	33K (333)	180K (184)	1M (105)
39 (390)	220 (221)	1.2K (122)	6.8K (682)	39K (393)	220K (224)	

EXB-28V and EXB-N8V Series
Isolated Terminals Resistance Codes (E24 Values)
(Value listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	6.8 (6R8)	51 (510)	390 (391)	3.0K (302)	22K (223)	160K (164)
1.0 (1R0)	7.5 (7R5)	56 (560)	430 (431)	3.3K (332)	24K (243)	180K (184)
1.1 (1R1)	8.2 (8R2)	62 (620)	470 (471)	3.6K (362)	27K (273)	200K (204)
1.2 (1R2)	9.1 (9R1)	68 (680)	510 (511)	3.9K (392)	30K (303)	220K (224)
1.3 (1R3)	10 (100)	75 (750)	560 (561)	4.3K (432)	33K (333)	240K (244)
1.5 (1R5)	11 (110)	82 (820)	620 (621)	4.7K (472)	36K (363)	270K (274)
1.6 (1R6)	12 (120)	91 (910)	680 (681)	5.1K (512)	39K (393)	300K (304)
1.8 (1R8)	13 (130)	100 (101)	750 (751)	5.6K (562)	43K (433)	330K (334)
2.0 (2R0)	15 (150)	110 (111)	820 (821)	6.2K (622)	47K (473)	360K (364)
2.2 (2R2)	16 (160)	120 (121)	910 (911)	6.8K (682)	51K (513)	390K (394)
2.4 (2R4)	18 (180)	130 (131)	1.0K (102)	7.5K (752)	56K (563)	430K (434)
2.7 (2R7)	20 (200)	150 (151)	1.1K (112)	8.2K (822)	62K (623)	470K (474)
3.0 (3R0)	22 (220)	160 (161)	1.2K (122)	9.1K (912)	68K (683)	510K (514)
3.3 (3R3)	24 (240)	180 (181)	1.3K (132)	10K (103)	75K (753)	560K (564)
3.6 (3R6)	27 (270)	200 (201)	1.5K (152)	11K (113)	82K (823)	620K (624)
3.9 (3R9)	30 (300)	220 (221)	1.6K (162)	12K (123)	91K (913)	680K (684)
4.3 (4R3)	33 (330)	240 (241)	1.8K (182)	13K (133)	100K (104)	750K (754)
4.7 (4R7)	36 (360)	270 (271)	2.0K (202)	15K (153)	110K (114)	820K (824)
5.1 (5R1)	39 (390)	300 (301)	2.2K (222)	16K (163)	120K (124)	910K (914)
5.6 (5R6)	43 (430)	330 (331)	2.4K (242)	18K (183)	130K (134)	1M (105)
6.2 (6R2)	47 (470)	360 (361)	2.7K (272)	20K (203)	150K (154)	

Fig.	No. of Resistors	Resistor Value Range§	Digi-Key• Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key• Part No.	Tape & Reel Pricing 5,000	10,000	20,000	Panasonic• Part No.
2	4	E24	Y10(Code)CT-ND	.44	3.85	13.75	23.65	Y10(Code)TR-ND	—	10.00/M	—	EXB-N8V□□□JX
1	2	E12	Y2(Code)CT-ND	.48	4.20	15.00	25.80	Y2(Code)TR-ND	17.00/M	16.00/M	—	EXB-V4V□□□JV
2	4	E12	Y4(Code)CT-ND	.80	7.00	25.00	43.00	Y4(Code)TR-ND	28.00/M	26.00/M	—	EXB-V8V□□□JV
1	2	E12	Y3(Code)CT-ND	1.46	12.81	45.75	78.69	Y3(Code)TR-ND	—	51.00/M	48.00/M	EXB-14V□□□JX
2	4	E12	Y6(Code)CT-ND	2.38	20.83	74.38	127.93	Y6(Code)TR-ND	—	83.00/M	—	EXB-18V□□□JX
1	2	E12	Y5(Code)CT-ND	1.00	8.75	31.25	53.75	Y5(Code)TR-ND	—	34.00/M	33.00/M	EXB-24V□□□JX
2	4	E24	Y7(Code)CT-ND	1.00	8.75	31.25	53.75	Y7(Code)TR-ND	—	34.00/M	33.00/M	EXB-28V□□□JX
1	2	E12	Y8(Code)CT-ND	.42	3.68	13.13	22.58	Y8(Code)TR-ND	15.00/M	14.00/M	—	EXB-34V□□□JV
2	4	E12	Y9(Code)CT-ND	.31	2.73	9.75	16.77	Y9(Code)TR-ND	11.00/M	10.00/M	—	EXB-38V□□□JV
3	8	E12	Y1(Code)CT-ND	1.80	15.75	56.25	96.75	Y1(Code)TR-ND	61.00/M	59.00/M	—	EXB-2HV□□□JV

• For complete part number, substitute the corresponding resistance Code. § E24 Resistance Values are available for other series. Please call Digi-Key for details.

RF Jumper Chip Resistor

SPECIFICATIONS:

• Isolation (2.5GHz): -40dB maximum • Return Loss (2.5GHz): -20dB maximum • Rated Current: 1A (derating curve for jumpers operated in ambient temperatures above 70°C, rated current shall be derated in accordance with derating curve chart • Number of Terminals: 6
• Temperature Range: -55°C ~ 125°C

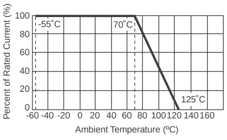

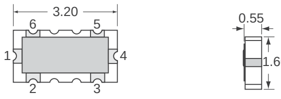

Dim. in mm

Resistance (1-4 Terminal)	Insertion Loss (2.5GHz)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	1,000	Digi-Key Part No.	Tape & Reel Pricing 5,000	10,000	15,000	25,000	50,000	Panasonic Part No.
50mΩ max.	-0.5dB max.	P0.0NCT-ND	2.41	20.06	80.25	133.75	P0.0NTR-ND	89.00/M	74.00/M	69.00/M	67.00/M	63.00/M	EXB-D6JP000A

Panasonic

Surface Mount Chip Resistor Networks — Series EXB-A, EXB-E, EXB-D and EXB-Q

FEATURES: • High Density: Bussed 8 resistors for pull up/down circuit in EXB-A Type 2512 (6.4mm x 3.1mm x 0.55mm), EXB-E Type 1608 (4.0mm x 2.1mm x 0.55mm), EXB-D Type 1206 (3.2mm x 1.6mm x 0.55mm) size and EXB-Q Type 1506 (3.8mm x 1.6mm x 0.45mm) **• Automatic Placement:** Taped and reeled packaging is suitable for high speed automatic placement machine • EXB-Q has available direct placing on the bus line by means of half pitch spacing without through-holes on PWB. It also features high speed mounting by conventional placing machine.

SPECIFICATIONS: • Resistance Range: 47Ω ~ 1MΩ (EXB-Q: 100Ω ~ 470KΩ) **• Resistance Tolerance:** ±5% **• Number of Terminals:** 10 Terminals (EXB-Q: 16 Terminals) **• Number of Resistors:** 8 Resistors (EXB-Q: 15 Resistors) **• Power Rating at 70°C:** 63mW/element (EXB-D: 50mW/element; EXB-Q: 25mW/element) **• Maximum Rated Continuous Working Voltage †:** EXB-A: 50V; EXB-E, EXB-D and EXB-Q: 25V **• Maximum Overload Voltage:** EXB-A: 100V; EXB-E, EXB-D and EXB-Q: 50V **• Temperature Characteristic Range:** ±200 ppm/°C **• Operating Temperature Range:** -55°C ~ 125°C

† Rated continuous working voltage (RCWV) shall be determined from RCWV = $\sqrt{\text{Power Rating x Resistance Value}}$, or maximum RCWV listed above, whichever is less.

Resistance Codes for EXB-A, EXB-E and EXB-D
(Values listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)
47 (470)	680 (681)	10K (103)	150K (154)
56 (560)	820 (821)	12K (123)	180K (184)
68 (680)	1.0K (102)	15K (153)	220K (224)
82 (820)	1.2K (122)	18K (183)	270K (274)
100 (101)	1.5K (152)	22K (223)	330K (334)
120 (121)	1.8K (182)	27K (273)	390K (394)
150 (151)	2.2K (222)	33K (333)	470K (474)
180 (181)	2.7K (272)	39K (393)	560K (564)
220 (221)	3.3K (333)	47K (473)	680K (684)
270 (271)	3.9K (392)	56K (563)	820K (824)
330 (331)	4.7K (472)	68K (683)	1M (105)
390 (391)	5.6K (562)	82K (823)	
470 (471)	6.8K (682)	100K (104)	
560 (561)	8.2K (822)	120K (124)	

Resistance Codes for EXB-Q
(Values listed in ohms)

Value (Code)	Value (Code)	Value (Code)	Value (Code)
100 (101)	1K (102)	10K (103)	100K (104)
150 (151)	1.5K (152)	15K (153)	150K (154)
220 (221)	2.2K (222)	22K (223)	220K (224)
330 (331)	3.3K (332)	33K (333)	330K (334)
470 (471)	4.7K (472)	47K (473)	470K (474)
680 (681)	6.8K (682)	68K (683)	

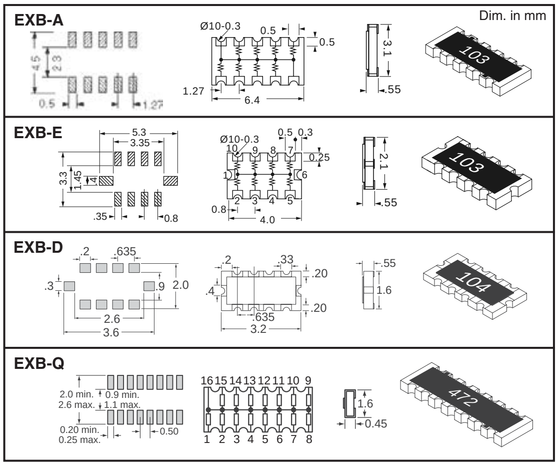

Digi-Key* Part No.	Cut Tape Pricing 1	10	100	500	1,000	Digi-Key* Part No.	Tape & Reel Pricing 4,000	5,000	8,000	10,000	Panasonic* Part No.
U7(Code)CT-ND	.46	4.26	34.50	143.75	230.00	U7(Code)TR-ND	207.00/M	—	173.00/M	—	EXB-A10P(Code)J
U8(Code)CT-ND	.42	3.89	31.50	131.25	210.00	U8(Code)TR-ND	153.00/M	—	128.00/M	—	EXB-E10C(Code)J
U9(Code)CT-ND	.44	4.03	32.70	136.25	218.00	U9(Code)TR-ND	—	153.00/M	—	128.00/M	EXB-D10C(Code)J
U6(Code)CT-ND	.60	5.54	44.93	187.19	299.50	U6(Code)TR-ND	—	270.00/M	—	225.00/M	EXB-Q16P(Code)J

* For complete part number, substitute the corresponding resistance Code

Surface Mount 0404 Balanced 0 Type Chip Attenuator

— Series EXB-24AB

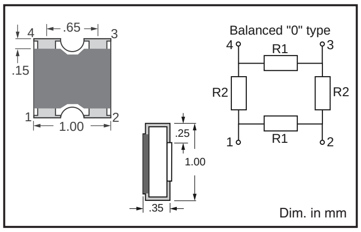

FEATURES: • Balanced "0" type attenuator circuit in one 0404 chip (1.0mm x 1.0mm) • Mounting occupation area reduction; –approximately 65% reduction compared with the attenuator circuit and consists of four discrete 0402 chip resistors; –approximately 26% reduction compared with the attenuator circuit and consists of four discrete 0201 chip resistors • Mounting time reduction: 4 times >>> 1 time • Attenuation: 0dB to 10dB **APPLICATIONS:** • Attenuation/level control/impedance matching of high frequency signals of communication equipment – cellular phones (GSM, CDMA, PDC, etc.), PHS, PDA, for example. **SPECIFICATIONS:** • Rated Power: 0.040W (40mW)/package • Frequency Range: DC to 2.5GHz • VSWR (Voltage Standing Wave Ratio) 1.2 maximum (typical), 1.5 maximum (0dB, typical) • Operating Temperature Range: -55°C ~ 125°C

Tolerance of Attenuation	Attenuation Value (dB)	R1 (Ω)	R2 (Ω)	Characteristic Impedance (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 10,000	Panasonic Part No.
±0.8	0	0	open	0	P11153CT-ND	2.44	21.33	76.19	P11153TR-ND	82.00/M	EXB-24AB00R8X
	1	5.77	1.74k	100	P11154CT-ND	2.44	21.33	76.19	P11154TR-ND	82.00/M	EXB-24AB1CR8X
	2	11.6	872	100	P11155CT-ND	2.44	21.33	76.19	P11155TR-ND	82.00/M	EXB-24AB2CR8X
	3	17.6	585	100	P11156CT-ND	2.44	21.33	76.19	P11156TR-ND	82.00/M	EXB-24AB3CR8X
±1.0	6	37.4	301	100	P11157CT-ND	2.44	21.33	76.19	P11157TR-ND	82.00/M	EXB-24AB6C1RX
±2.0	10	71.2	192	100	P11158CT-ND	2.44	21.33	76.19	P11158TR-ND	82.00/M	EXB-24ABAC2RX
±0.8	1	11.5	3.48k	200	P11159CT-ND	2.44	21.33	76.19	P11159TR-ND	82.00/M	EXB-24AB1ER8X
	2	23.2	1.74k	200	P11160CT-ND	2.44	21.33	76.19	P11160TR-ND	82.00/M	EXB-24AB2ER8X
	3	35.2	1.17k	200	P11161CT-ND	2.44	21.33	76.19	P11161TR-ND	82.00/M	EXB-24AB3ER8X
	6	74.7	602	200	P11162CT-ND	2.44	21.33	76.19	P11162TR-ND	82.00/M	EXB-24AB6E1RX
	10	142	385	200	P11163CT-ND	2.44	21.33	76.19	P11163TR-ND	82.00/M	EXB-24ABAE2RX
	1	17.3	5.22k	300	P11164CT-ND	2.44	21.33	76.19	P11164TR-ND	82.00/M	EXB-24AB1GR8X
	2	34.8	2.62k	300	P11165CT-ND	2.44	21.33	76.19	P11165TR-ND	82.00/M	EXB-24AB2GR8X
	3	52.8	1.75k	300	P11166CT-ND	2.44	21.33	76.19	P11166TR-ND	82.00/M	EXB-24AB3GR8X
±1.0	6	112	903	300	P11167CT-ND	2.44	21.33	76.19	P11167TR-ND	82.00/M	EXB-24AB6G1RX
±2.0	10	213	577	300	P11168CT-ND	2.44	21.33	76.19	P11168TR-ND	82.00/M	EXB-24ABAG2RX

Surface Mount 0404 Chip Attenuator

— Series EXB-24AT

Attenuation - Frequency Characteristics (Typical)

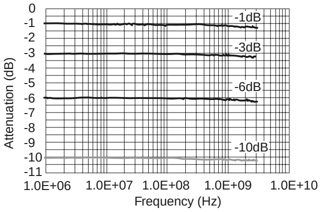

FEATURES: • Unbalanced π type attenuator circuit in one chip (1.0mm x 1.0mm) • Mounting occupation area reduction: about 50% reduction compared with attenuator circuit consisting of three 0402 chip resistors • Mounting Times reduction: 3 time >>> 1 time • Attenuation: 1dB to 10dB **APPLICATIONS:** • Attenuation/level control/impedance matching of high frequency signals of communication equipment – cellular phones (GSM, CDMA, PDC, etc.), PHS, PDA, for example. **SPECIFICATIONS:** • Characteristic Impedance: 50Ω • Rated Power: 0.040W (40mW)/package • Frequency Range: DC to 2GHz • VSWR (Voltage Standing Wave Ratio) 1.3 maximum

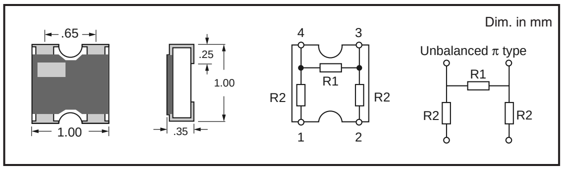

Tolerance of Attenuation	Attenuation Value (dB)	R1 (Ω)	R2 (Ω)	Digi-Key Part No.	Cut Tape Pricing 10	100	500	Digi-Key Part No.	Tape & Reel Pricing 10,000	Panasonic Part No.
±0.3	1	5.77	870	P11103CT-ND	1.79	15.70	56.06	P11103TR-ND	61.00/M	EXB-24AT1AR3X
	2	11.6	436	P11104CT-ND	1.79	15.70	56.06	P11104TR-ND	61.00/M	EXB-24AT2AR3X
	3	17.6	292	P11105CT-ND	1.79	15.70	56.06	P11105TR-ND	61.00/M	EXB-24AT3AR3X
	4	23.9	221	P11106CT-ND	1.79	15.70	56.06	P11106TR-ND	61.00/M	EXB-24AT4AR3X
	5	30.4	179	P11107CT-ND	1.79	15.70	56.06	P11107TR-ND	61.00/M	EXB-24AT5AR3X
±0.5	6	37.4	151	P11108CT-ND	1.79	15.70	56.06	P11108TR-ND	61.00/M	EXB-24AT6AR5X
	10	71.2	96.3	P11109CT-ND	1.79	15.70	56.06	P11109TR-ND	61.00/M	EXB-24ATAAR5X

2% Thick Film Resistor Networks

Low Profile, Single-In-Line Package, Highly Stable, Equivalent to MIL-R-83401

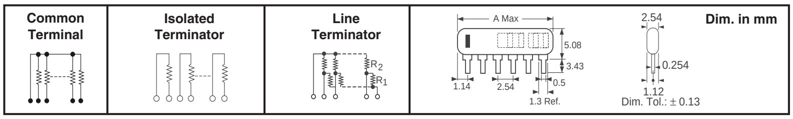

General Specifications:

Rated Power:
Common: 125mW (70°C); Isolated: 200mW (60°C); Line Terminator: 75mW (70°C).

Rated Continuous Working Voltage (RCWV): $\sqrt{\text{Rated Power x Resistance Value}}$ or 100V, whichever is less.

Operating Temperature Range:
–55°C ~ 125°C

Storage Temperature Range:
–55°C ~ 150°C

Common Terminal and Isolated Terminal: Resistance Codes

Value (Code)	Value (Code)	Value (Code)
100 (101)	6.8K (682)	150K (154)
150 (151)	8.2K (822)	220K (224)
220 (221)	15K (153)	330K (334)
330 (331)	22K (223)	470K (474)
560 (561)	33K (333)	560K (564)
680 (681)	47K (473)	680K (684)
820 (821)	56K (563)	
1.5K (152)	68K (683)	
5.6K (562)	82K (823)	

Line Terminator: Resistance Codes

R1/R2 (Code)
160/240 (T01)
180/390 (T02)
220/270 (T03)
220/330 (T04)
330/390 (T05)
330/470 (T06)
330/680 (T07)
1.5K/3.3K (T08)

Type	Res. Elements	No. of Pins	Dim. A (mm)	Digi-Key* Part No.	Pricing 1	10	100	1,000	5,000	Panasonic Part No.
Common Terminal	5	6	14.88	Q5(Code)-ND	.25	2.03	15.23	102.00	92.00/M	EXB-F6E (Code) G
	7	8	19.96	Q7(Code)-ND	.33	2.67	19.99	133.00	121.00/M	EXB-F8E (Code) G
	9	10	25.04	Q9(Code)-ND	.42	3.35	25.14	168.00	152.00/M	EXB-F10E (Code) G
Isolated Terminator	3	6	14.88	Q2(Code)-ND	.25	2.03	15.23	102.00	92.00/M	EXB-F6V (Code) G
	4	8	19.96	Q4(Code)-ND	.33	2.67	19.99	133.00	121.00/M	EXB-F8V (Code) G
	5	10	25.04	Q6(Code)-ND	.42	3.35	25.14	168.00	152.00/M	EXB-F10 (Code) G
Line Terminator	8	6	14.88	Q0(Code)-ND	.40	3.23	24.22	161.00	147.00/M	EXB-F6WT (Code) G
	12	8	19.96	Q1(Code)-ND	.54	4.32	32.39	216.00	196.00/M	EXB-F8WT (Code) G
	16	10	25.04	Q3(Code)-ND	.67	5.38	40.37	269.00	245.00/M	EXB-F10WT (Code) G

* For complete part number, substitute the corresponding resistance Code.

Surface Mount Chip 3-Terminal Capacitor Array — Series EZA-SC

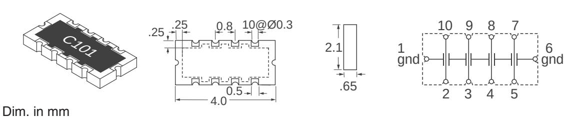

Dim. in mm

FEATURES: **Suitable for EMI suppression filtering:** • The low residual inductance at high frequency range provides effective reduction of noise • Equivalent noise reduction to the EMI filters with low cost design **Compact design for high density PWB assembly:** • 4.0 x 2.1 x 0.65mm • Flat and square packages suitable for high speed automatic placement machine **Superior mountability with concave terminals:** • Firm solder joint (two times of convex terminal) • Self-alignment of placement at reflow process

SPECIFICATIONS: • Capacitance Tolerance: ±20% (+30% / -20% in the case of 22pf) • Temperature Characteristic: ΔC: +20% / -55% (-25°C ~ 85°C) • Dissipation Factor: Less than 2.0% (25°C, 1kHz – In measuring at 1MHz, capacitance value and dissipation factor are different, 1 Vrms) • Rated Voltage: 25V • Rated Current: 200mA (between input terminal and output terminal) • Resistance: Less than 1.0Ω (between input terminal and output terminal) • Operating Temperature Range: -25°C ~ 85°C

Volts (DC)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
25	22	P10192CT-ND	1.18	1.04	.89	.74	P10192TR-ND	414.00/M	EZA-SCE220M
25	47	P10193CT-ND	1.18	1.04	.89	.74	P10193TR-ND	414.00/M	EZA-SCE470M
25	100	P10194CT-ND	1.18	1.04	.89	.74	P10194TR-ND	414.00/M	EZA-SCE101M

Surface Mount Chip Capacitor Networks — Series EZA-NP

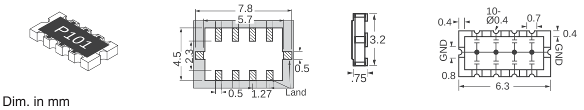

Dim. in mm

FEATURES: • Chip Capacitor Networks — exclusively developed by Panasonic thick film technology. Bussed 8 capacitors in one package (6.3mm x 3.2mm x 0.75mm), half-pitch (0.65mm) spacing for high density automatic placing • Superior noise reduction by using two ground terminals • Superior solderability by using Ni + Solder plating with unique concave terminals

SPECIFICATIONS: • Capacitance Range: 47pF, 100pF, 220pF • Capacitance Tolerance: ±20% • Temperature Characteristic: E Characteristic: +20% / -55% (-25°C ~ 85°C) • Dissipation Factor: Less than 3.0% (25°C, 1kHz, 1Vrms) • Rated Voltage: 25V • Operating Temperature Range: -25°C ~ 85°C

Volts (DC)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	T & R Pricing 4,000	Panasonic Part No.
25	47	PCN1001CT-ND	2.03	1.78	1.53	1.27	PCN1001TR-ND	710.00/M	EZA-NPE470M
25	100	PCN1002CT-ND	2.03	1.78	1.53	1.27	PCN1002TR-ND	710.00/M	EZA-NPE101M
25	220	PCN1003CT-ND	2.03	1.78	1.53	1.27	PCN1003TR-ND	710.00/M	EZA-NPE221M

Surface Mount Chip RC Networks — Series EZA-ST, EZA-DT, EZA-DL, EZA-NT, and EZA-CT

EZA-ST Series

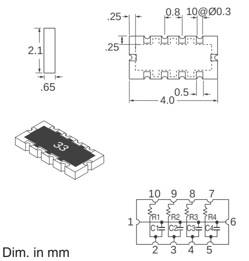

Dim. in mm

EZA-DT Series

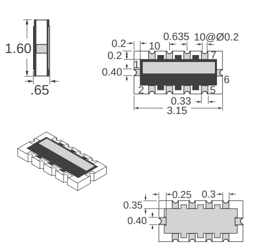

EZA-DL Series

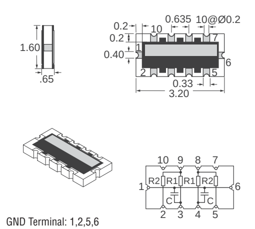

GND Terminal: 1,2,5,6
I/O Terminal: 3,4,8,9
Dummy Terminal: 7,10

EZA-NT Series

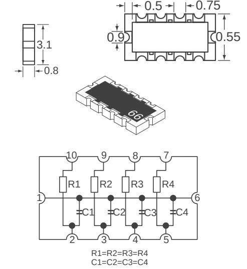

EZA-CT Series

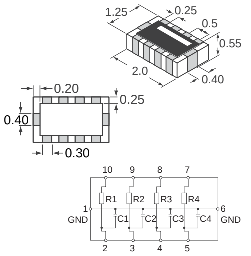

FEATURES: **EZA-CT Series:** • 4 RC circuits in one small package • 75% space savings compared to 0402 size **EZA-DT Series:** • Smallest SMD R/C networks • Four popular noise reduction circuits made from damping resistors and bypass capacitors in a smallest chip • EZAST: 4.0 x 2.1 x 0.65mm, 0.8mm pitch • EZADT: 3.2 x 1.6 x 0.65mm, 0.635mm pitch • EZANT: 6.4 x 3.1 x .80mm, 1.27mm pitch • Smaller occupied space than discrete 0402 (1.0 x 0.5 mm) • EZAST: 70% of 0402 (1.0 x 0.5mm) chips placing area • EZADT: 50% of 0402 (1.0 x 0.5mm) chips placing area • EZANT: 45% of 0805 (2.0 x 1.2mm) chips placing area **EZA-DL Series:** • Smallest SMD R/C filter for USB interface • Including 2 circuits of π type R/C filter in a chip (Chip size: 3.2 x 1.6mm) • Space saving and low placing cost **EZA-ST, EZA-DT, EZA-DL and EZA-NT Series:** • Superior mountability with concave terminal • Firm solder joint (two times of convex terminal) • Self-alignment of placement at reflow soldering **Recommended Applications for EZA-DL Series:** • Information and amusement equipment containing USB interface

SPECIFICATIONS: Resistance Tolerance: ±5% • TCR: ±200 ppm/°C • Rated Power: 0.063W (≤70°C) – *For resistors operated in ambient temperature above 70°C, rated power shall be derated* • Maximum Rated Continuous Working Voltage: 25V *(Rated Voltage for resistor shall be determined from $\sqrt{\text{Rated Power} \times \text{Resistance Value}}$, or Limiting Element Voltage [Maximum Rated Continuous Working Voltage], whichever is less.)* • Capacitance Tolerance: +30%/-20% • Capacitance Temperature Characteristic: E Characteristic: +20% / -55% (-25°C ~ 85°C) • Dissipation Factor: Less than 3.% (25°C, 1kHz - *In measuring at 1MHz, capacitance and dissipation factor are different*, 1 Vrms) • Rated Voltage: EZA-NT: 50V EZA-ST: 25V EZA-DT, EZA-CT and EZA-DL: 12V • Operating Temperature Range: -25°C ~ 85°C

Res. (Ω)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
			1	10	100	500		Size	Pricing	
EZA-ST Series										
22	22	PST11CT-ND	1.18	1.04	.89	.74	PST11TR-ND	4,000	414.00/M	EZA-ST11AAAJ
	47	PST12CT-ND	1.18	1.04	.89	.74	PST12TR-ND	4,000	414.00/M	EZA-ST12AAAJ
	100	PST13CT-ND	1.18	1.04	.89	.74	PST13TR-ND	4,000	414.00/M	EZA-ST13AAAJ
47	22	PST21CT-ND	1.18	1.04	.89	.74	PST21TR-ND	4,000	414.00/M	EZA-ST21AAAJ
	47	PST22CT-ND	1.18	1.04	.89	.74	PST22TR-ND	4,000	414.00/M	EZA-ST22AAAJ
	100	PST23CT-ND	1.18	1.04	.89	.74	PST23TR-ND	4,000	414.00/M	EZA-ST23AAAJ
100	22	PST31CT-ND	1.18	1.04	.89	.74	PST31TR-ND	4,000	414.00/M	EZA-ST31AAAJ
	47	PST32CT-ND	1.18	1.04	.89	.74	PST32TR-ND	4,000	414.00/M	EZA-ST32AAAJ
	100	PST33CT-ND	1.18	1.04	.89	.74	PST33TR-ND	4,000	414.00/M	EZA-ST33AAAJ
220	22	PST41CT-ND	1.18	1.04	.89	.74	PST41TR-ND	4,000	414.00/M	EZA-ST41AAAJ
	47	PST42CT-ND	1.18	1.04	.89	.74	PST42TR-ND	4,000	414.00/M	EZA-ST42AAAJ
	100	PST43CT-ND	1.18	1.04	.89	.74	PST43TR-ND	4,000	414.00/M	EZA-ST43AAAJ
470	22	PST51CT-ND	1.18	1.04	.89	.74	PST51TR-ND	4,000	414.00/M	EZA-ST51AAAJ
	47	PST52CT-ND	1.18	1.04	.89	.74	PST52TR-ND	4,000	414.00/M	EZA-ST52AAAJ
	100	PST53CT-ND	1.18	1.04	.89	.74	PST53TR-ND	4,000	414.00/M	EZA-ST53AAAJ
1K	22	PST61CT-ND	1.18	1.04	.89	.74	PST61TR-ND	4,000	414.00/M	EZA-ST61AAAJ
	47	PST62CT-ND	1.18	1.04	.89	.74	PST62TR-ND	4,000	414.00/M	EZA-ST62AAAJ
	100	PST63CT-ND	1.18	1.04	.89	.74	PST63TR-ND	4,000	414.00/M	EZA-ST63AAAJ
EZA-DT Series										
22	22	PDT11CT-ND	.64	.56	.48	.40	PDT11TR-ND	5,000	223.00/M	EZA-DT11AAAJ
	47	PDT12CT-ND	.64	.56	.48	.40	PDT12TR-ND	5,000	223.00/M	EZA-DT12AAAJ
	100	PDT13CT-ND	.64	.56	.48	.40	PDT13TR-ND	5,000	223.00/M	EZA-DT13AAAJ
47	22	PDT21CT-ND	.64	.56	.48	.40	PDT21TR-ND	5,000	223.00/M	EZA-DT21AAAJ
	47	PDT22CT-ND	.64	.56	.48	.40	PDT22TR-ND	5,000	223.00/M	EZA-DT22AAAJ
	100	PDT23CT-ND	.64	.56	.48	.40	PDT23TR-ND	5,000	223.00/M	EZA-DT23AAAJ
100	22	PDT31CT-ND	.64	.56	.48	.40	PDT31TR-ND	5,000	223.00/M	EZA-DT31AAAJ
	47	PDT32CT-ND	.64	.56	.48	.40	PDT32TR-ND	5,000	223.00/M	EZA-DT32AAAJ
	100	PDT33CT-ND	.64	.56	.48	.40	PDT33TR-ND	5,000	223.00/M	EZA-DT33AAAJ
220	22	PDT41CT-ND	.64	.56	.48	.40	PDT41TR-ND	5,000	223.00/M	EZA-DT41AAAJ
	47	PDT42CT-ND	.64	.56	.48	.40	PDT42TR-ND	5,000	223.00/M	EZA-DT42AAAJ
	100	PDT43CT-ND	.64	.56	.48	.40	PDT43TR-ND	5,000	223.00/M	EZA-DT43AAAJ
470	22	PDT51CT-ND	.64	.56	.48	.40	PDT51TR-ND	5,000	223.00/M	EZA-DT51AAAJ
	47	PDT52CT-ND	.64	.56	.48	.40	PDT52TR-ND	5,000	223.00/M	EZA-DT52AAAJ
	100	PDT53CT-ND	.64	.56	.48	.40	PDT53TR-ND	5,000	223.00/M	EZA-DT53AAAJ

Res. (Ω)	Cap. (pF)	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
			1	10	100	500		Size	Pricing	
1K	22	PDT61CT-ND	.64	.56	.48	.40	PDT61TR-ND	5,000	223.00/M	EZA-DT61AAAJ
	47	PDT62CT-ND	.64	.56	.48	.40	PDT62TR-ND	5,000	223.00/M	EZA-DT62AAAJ
	100	PDT63CT-ND	.64	.56	.48	.40	PDT63TR-ND	5,000	223.00/M	EZA-DT63AAAJ
EZA-DL Series										
27/15K	47	PDLU01CT-ND	.41	.36	.31	.26	PDLU01TR-ND	5,000	143.00/M	EZA-DLU01AAJ
15/15K		PDLU02CT-ND	.41	.36	.31	.26	PDLU02TR-ND	5,000	143.00/M	EZA-DLU02AAJ
EZA-NT Series										
22	220	PNT14CT-ND	.95	.84	.72	.60	PNT14TR-ND	4,000	334.00/M	EZA-NT14AAAJ
	470	PNT15CT-ND	.95	.84	.72	.60	PNT15TR-ND	4,000	334.00/M	EZA-NT15AAAJ
	1000	PNT16CT-ND	.95	.84	.72	.60	PNT16TR-ND	4,000	334.00/M	EZA-NT16AAAJ
47	220	PNT24CT-ND	.95	.84	.72	.60	PNT24TR-ND	4,000	334.00/M	EZA-NT24AAAJ
	470	PNT25CT-ND	.95	.84	.72	.60	PNT25TR-ND	4,000	334.00/M	EZA-NT25AAAJ
	1000	PNT26CT-ND	.95	.84	.72	.60	PNT26TR-ND	4,000	334.00/M	EZA-NT26AAAJ
100	220	PNT34CT-ND	.95	.84	.72	.60	PNT34TR-ND	4,000	334.00/M	EZA-NT34AAAJ
	470	PNT35CT-ND	.95	.84	.72	.60	PNT35TR-ND	4,000	334.00/M	EZA-NT35AAAJ
	1000	PNT36CT-ND	.95	.84	.72	.60	PNT36TR-ND	4,000	334.00/M	EZA-NT36AAAJ
220	220	PNT44CT-ND	.95	.84	.72	.60	PNT44TR-ND	4,000	334.00/M	EZA-NT44AAAJ
	470	PNT45CT-ND	.95	.84	.72	.60	PNT45TR-ND	4,000	334.00/M	EZA-NT45AAAJ
	1000	PNT46CT-ND	.95	.84	.72	.60	PNT46TR-ND	4,000	334.00/M	EZA-NT46AAAJ
470	220	PNT54CT-ND	.95	.84	.72	.60	PNT54TR-ND	4,000	334.00/M	EZA-NT54AAAJ
	470	PNT55CT-ND	.95	.84	.72	.60	PNT55TR-ND	4,000	334.00/M	EZA-NT55AAAJ
	1000	PNT56CT-ND	.95	.84	.72	.60	PNT56TR-ND	4,000	334.00/M	EZA-NT56AAAJ
1K	220	PNT64CT-ND	.95	.84	.72	.60	PNT64TR-ND	4,000	334.00/M	EZA-NT64AAAJ
	470	PNT65CT-ND	.95	.84	.72	.60	PNT65TR-ND	4,000	334.00/M	EZA-NT65AAAJ
	1000	PNT66CT-ND	.95	.84	.72	.60	PNT66TR-ND	4,000	334.00/M	EZA-NT66AAAJ
EZA-CT Series										
10	10	PCT00CT-ND	.63	.56	.48	.40	PCT00TR-ND	5,000	221.00/M	EZA-CT00AAAJ
	22	PCT01CT-ND	.63	.56	.48	.40	PCT01TR-ND	5,000	221.00/M	EZA-CT01AAAJ
22	10	PCT10CT-ND	.63	.56	.48	.40	PCT10TR-ND	5,000	221.00/M	EZA-CT10AAAJ
	22	PCT11CT-ND	.63	.56	.48	.40	PCT11TR-ND	5,000	221.00/M	EZA-CT11AAAJ
47	10	PCT20CT-ND	.63	.56	.48	.40	PCT20TR-ND	5,000	221.00/M	EZA-CT20AAAJ
	22	PCT21CT-ND	.63	.56	.48	.40	PCT21TR-ND	5,000	221.00/M	EZA-CT21AAAJ
100	10	PCT30CT-ND	.63	.56	.48	.40	PCT30TR-ND	5,000	221.00/M	EZA-CT30AAAJ
	22	PCT31CT-ND	.63	.56	.48	.40	PCT31TR-ND	5,000	221.00/M	EZA-CT31AAAJ

Chip Resistor Arrays

Dim. in mm

MNR02 SERIES

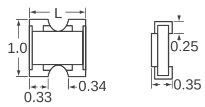

- Circuit Type: Isolated
- Max. Operating Voltage: 25V

MNR04 SERIES

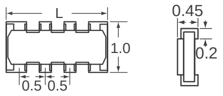

- Circuit Type: Isolated
- Max. Operating Voltage: 25V

MNR12 SERIES

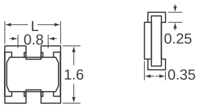

- Circuit Type: Isolated
- Max. Operating Voltage: 50V

MNR14 SERIES

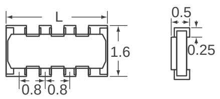

- Circuit Type: Isolated
- Max. Operating Voltage: 50V

MNR15 SERIES

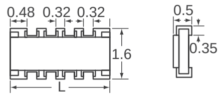

- Circuit Type: Bussed
- Max. Operating Voltage: 12.5V

MNR18 SERIES

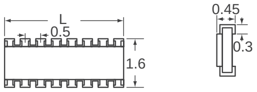

- Circuit Type: Isolated
- Max. Operating Voltage: 25V

MNR32 SERIES

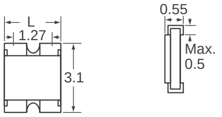

- Circuit Type: Isolated
- Max. Operating Voltage: 200V

MNR34 SERIES

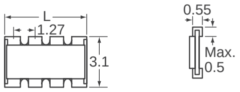

- Circuit Type: Isolated
- Max. Operating Voltage: 200V

MNR35 SERIES

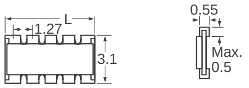

- Circuit Type: Bussed
- Max. Operating Voltage: 50V

Series MNR02, MNR12 and MNR32

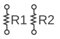

R1 = R2

Series MNR04, MNR14 and MNR34

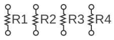

R1 = R2 = R3 = R4

Series MNR15

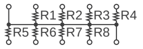

R1=R2=R3=R4=R5=R6=R7=R8

Series MNR18

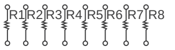

R1=R2=R3=R4=R5=R6=R7=R8

Series MNR35

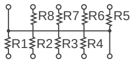

R1=R2=R3=R4=R5=R6=R7=R8

Resistance Values (Ω)
MNR02 Series

Value (Code)	Value (Code)
0.0 (000)	100 (101)
10 (100)	1.0K (102)
22 (220)	4.7K (472)
33 (330)	10K (103)
56 (560)	47K (473)

Resistance Values (Ω)
MNR15 Series Chip Arrays

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
56 (560)	330 (331)	560 (561)	1.8K (182)	4.7K (472)	18K (183)	68K (683)
100 (101)	390 (391)	680 (681)	2.0K (202)	5.1K (512)	20K (203)	100K (104)
150 (151)	430 (431)	1.0K (102)	2.2K (222)	5.6K (562)	22K (223)	
220 (221)	470 (471)	1.2K (122)	2.7K (272)	8.2K (822)	33K (333)	
300 (301)	510 (511)	1.5K (152)	3.3K (332)	10K (103)	47K (473)	

Resistance Values (Ω)
MNR04 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	27 (270)	56 (560)	150 (151)	820 (821)	4.7K (472)	33K (333)
10 (100)	30 (300)	62 (620)	220 (221)	1.0K (102)	5.1K (512)	47K (473)
12 (120)	33 (330)	68 (680)	240 (241)	1.2K (122)	6.8K (682)	51K (513)
15 (150)	39 (390)	75 (750)	300 (301)	1.5K (152)	8.2K (822)	56K (563)
18 (180)	43 (430)	82 (820)	330 (331)	2.2K (222)	10K (103)	100K (104)
22 (220)	47 (470)	100 (101)	470 (471)	2.7K (272)	15K (153)	1.0M (105)
24 (240)	51 (510)	120 (121)	680 (681)	3.0K (302)	22K (223)	

Resistance Values (Ω)
MNR18 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	30 (300)	56 (560)	200 (201)	1.0K (102)	5.1K (512)	47K (473)
12 (120)	33 (330)	62 (620)	220 (221)	1.2K (122)	6.8K (682)	51K (513)
15 (150)	36 (360)	68 (680)	240 (241)	1.5K (152)	8.2K (822)	56K (563)
18 (180)	39 (390)	75 (750)	300 (301)	2.0K (202)	10K (103)	100K (104)
20 (200)	43 (430)	82 (820)	330 (331)	2.2K (222)	15K (153)	1.0M (105)
22 (220)	47 (470)	100 (101)	470 (471)	2.7K (272)	20K (203)	
24 (240)	50 (500)	120 (121)	680 (681)	3.0K (302)	22K (223)	
27 (270)	51 (510)	150 (151)	820 (821)	4.7K (472)	33K (333)	

Resistance Values (Ω)
MNR12 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	39 (390)	100 (101)	360 (361)	1.2K (122)	10K (103)	150K (154)
10 (100)	47 (470)	130 (131)	470 (471)	1.8K (182)	15K (153)	220K (224)
18 (180)	51 (510)	150 (151)	510 (511)	2.0K (202)	22K (223)	1.0M (105)
22 (220)	56 (560)	220 (221)	680 (681)	2.2K (222)	39K (393)	
27 (270)	68 (680)	270 (271)	820 (821)	2.4K (242)	47K (473)	
33 (330)	75 (750)	330 (331)	1.0K (102)	4.7K (472)	100K (104)	

Resistance Values (Ω)
MNR32 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)
39 (390)	270 (271)	132 (1.3K)	4.7K (472)
100 (101)	470 (471)	182 (1.8K)	10K (103)
180 (181)	1.0K (102)	392 (3.9K)	47K (473)

Resistance Values (Ω)
MNR14 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	36 (360)	220 (221)	1.3K (132)	8.2K (822)	51K (513)	360K (364)
2.2 (2R2)	39 (390)	240 (241)	1.5K (152)	9.1K (912)	56K (563)	390K (394)
3.0 (3R0)	43 (430)	270 (271)	1.6K (162)	10K (103)	62K (623)	430K (434)
3.3 (3R3)	47 (470)	300 (301)	1.8K (182)	11K (113)	68K (683)	470K (474)
4.7 (4R7)	51 (510)	330 (331)	2.0K (202)	12K (123)	75K (753)	510K (514)
6.8 (6R8)	56 (560)	360 (361)	2.2K (222)	13K (133)	82K (823)	560K (564)
10 (100)	62 (620)	390 (391)	2.4K (242)	15K (153)	91K (913)	620K (624)
11 (110)	68 (680)	430 (431)	2.7K (272)	16K (163)	100K (104)	680K (684)
12 (120)	75 (750)	470 (471)	3.0K (302)	18K (183)	110K (114)	750K (754)
13 (130)	82 (820)	510 (511)	3.3K (332)	20K (203)	120K (124)	820K (824)
15 (150)	91 (910)	560 (561)	3.6K (362)	22K (223)	130K (134)	910K (914)
16 (160)	100 (101)	620 (621)	3.9K (392)	24K (243)	150K (154)	1.0M (105)
18 (180)	110 (111)	680 (681)	4.3K (432)	27K (273)	160K (164)	
20 (200)	120 (121)	750 (751)	4.7K (472)	30K (303)	180K (184)	
22 (220)	130 (131)	820 (821)	5.1K (512)	33K (333)	200K (204)	
24 (240)	150 (151)	910 (911)	5.6K (562)	36K (363)	220K (224)	
27 (270)	160 (161)	1.0K (102)	6.2K (622)	39K (393)	240K (244)	
30 (300)	180 (181)	1.1K (112)	6.8K (682)	43K (433)	300K (304)	
33 (330)	200 (201)	1.2K (122)	7.5K (752)	47K (473)	330K (334)	

Resistance Values (Ω)
MNR34 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
0.0 (000)	36 (360)	110 (111)	470 (471)	1.8K (182)	6.8K (682)	56K (563)
10 (100)	39 (390)	120 (121)	510 (511)	2.0K (202)	8.2K (822)	68K (683)
15 (150)	43 (430)	150 (151)	560 (561)	2.2K (222)	10K (103)	100K (104)
16 (160)	47 (470)	180 (181)	620 (621)	2.7K (272)	15K (153)	270K (274)
18 (180)	51 (510)	200 (201)	680 (681)	3.3K (332)	18K (183)	510K (514)
22 (220)	56 (560)	220 (221)	750 (751)	3.9K (392)	20K (203)	1.0M (105)
24 (240)	68 (680)	270 (271)	820 (821)	4.7K (472)	22K (223)	
27 (270)	82 (820)	300 (301)	1.0K (102)	5.1K (512)	33K (333)	
30 (300)	91 (910)	330 (331)	1.2K (122)	5.6K (562)	39K (393)	
33 (330)	100 (101)	390 (391)	1.5K (152)	6.2K (622)	47K (473)	

Resistance Values (Ω)
MNR35 Series

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
56 (560)	330 (331)	680 (681)	2.0K (202)	5.6K (562)	22K (223)
100 (101)	430 (431)	1.0K (102)	2.2K (222)	8.2K (822)	33K (333)
150 (151)	470 (471)	1.2K (122)	2.7K (272)	10K (103)	47K (473)
220 (221)	510 (511)	1.5K (152)	3.3K (332)	18K (183)	68K (683)
300 (301)	560 (561)	1.8K (182)	4.7K (472)	20K (203)	100K (104)

Series	No. of Term.	No. of Res.	Dim. “L” (mm)	Resistor † Power Rating (mW@70°C)	Digi-Key* Part No.	Cut Tape Pricing 10	Cut Tape Pricing 100	Cut Tape Pricing 1,000	Digi-Key* Part No.	Tape & Reel Pricing 4,000	Tape & Reel Pricing 5,000	Tape & Reel Pricing 10,000
MNR02	4	2	1.0	63	MNR02(Code)CT-ND	.32	2.53	21.62	MNR02(Code)TR-ND	—	—	16.00/M
MNR04	8	4	2.0	63	MNR04(Code)CT-ND	.36	2.85	24.32	MNR04(Code)TR-ND	—	—	18.00/M
MNR12	4	2	1.6	63	MNR12(Code)CT-ND	.20	1.58	13.51	MNR12(Code)TR-ND	—	12.00/M	10.00/M
MNR14	8	4	3.2	63	MNR14(Code)CT-ND	.20	1.58	13.51	MNR14(Code)TR-ND	—	12.00/M	10.00/M
MNR15	10	8	3.2	31	MNR15(Code)CT-ND	1.37	10.75	91.89	MNR15(Code)TR-ND	—	78.00/M	68.00/M
MNR18	16	8	3.8	63	MNR18(Code)CT-ND	1.01	7.91	67.56	MNR18(Code)TR-ND	—	58.00/M	50.00/M
MNR32	4	2	2.6	125	MNR32(Code)CT-ND	1.21	9.49	81.08	MNR32(Code)TR-ND	69.00/M	—	—
MNR34	8	4	5.2	125	MNR34(Code)CT-ND	1.37	10.75	91.89	MNR34(Code)TR-ND	78.00/M	—	—
MNR35	10	8	6.4	63	MNR35(Code)CT-ND	2.86	22.45	191.88	MNR35(Code)TR-ND	163.00/M	—	—

* For complete part number, substitute the corresponding code from the Resistance Value Chart for (Code).

† ***Note:*** Total Rated Package Power equals total number of resistors times rated Power per Resistor.

CTS CLEARONE™

BGA Terminators and Bias Networks

• Ceramic BGA Packaging • High density form factor • Designed for termination of parallel data busses • Designed for high frequency data transmission • Virtually eliminates parasitic capacitance and inductance • Ultra low channel capacitance • Flexible form factor; 1mm and 1.27mm pitch • *All dimensions in mm*

Now including Top Probe-able Devices†

The use of ball grid array (BGA) devices during the development phase of a project can represent some unique challenges in terms of circuit probing and device removal should device parameters need to be altered. CTS introduced the Top Probe-able devices to provide easy access to the internal circuitry of the BGA device without probing of the solder spheres, and eliminate the space consumed by test points on the circuit board. For parts available in Top Probe Configuration see Digi-Key parts marked with †.

DDR SDRAM Terminators

Features:

- 18 Bit SSTL_2 Termination Sets • Compliant to JEDEC Std. 8-9

Electrical Specifications:

- **Resistor Tolerance:** ±1.0%
- **Maximum Resistor Power:** 0.05 Watts at 70°C (Not to Exceed Total Network Power)
- **Package Power Rating:** 1.0 Watt at 70°C
- **Temperature Coefficient of Resistance:** ±200 ppm/°C
- **Operating Temperature Range:** -55°C ~ 125°C

Fig. 1

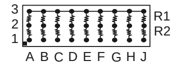

Schematic

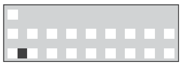

Top Probe-able

Fig. 2

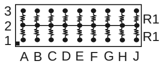

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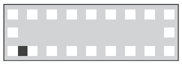

Top Probe-able

Fig. 3

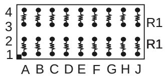

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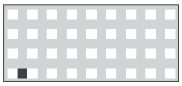

Top Probe-able

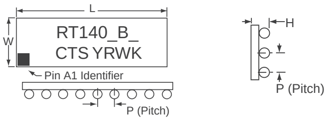

Fig. 1 and 2

Pitch	L	W	H
1.27	11.43	3.81	1.32
1.00	9.00	3.00	1.19

Fig. 3

Pitch	L	W	H
1.27	11.43	5.08	1.32
1.00	9.00	4.00	1.19

Fig.	R1 Ohms	R2 Ohms	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
1	60	25	3x9	1.27	RT1408B6CT-ND	2.29	1.83	885.00	RT1408B6TR7
	60	25	3x9	1.27	RT1408B6PCT-ND†	2.52	2.02	973.00	RT1408B6P
	60	25	3x9	1.00	RT1408B7PCT-ND†	2.69	2.16	—	RT1408B7P
	50	25	3x9	1.27	RT1400B6CT-ND	2.29	1.83	—	RT1400B6TR7
	50	25	3x9	1.27	RT1400B6PCT-ND†	2.52	2.02	973.00	RT1400B6P
	25	22	3x9	1.27	RT1401B6CT-ND	2.29	1.83	885.00	RT1401B6TR7
	25	22	3x9	1.00	RT1401B7CT-ND	2.45	1.96	—	RT1401B7TR7
2	50	—	3x9	1.27	RT1402B6PCT-ND†	2.52	2.02	—	RT1402B6P
	35	—	3x9	1.27	RT1407B6CT-ND	2.29	1.83	885.00	RT1407B6TR7
	35	—	3x9	1.27	RT1407B6PCT-ND†	2.69	2.16	1041.00	RT1407B6P
	25	—	3x9	1.27	RT1403B6CT-ND	2.29	1.83	—	RT1403B6TR7
	25	—	3x9	1.00	RT1403B7CT-ND	2.45	1.96	—	RT1403B7TR7
3	22	—	4x9	1.27	RT1405B6CT-ND	2.69	2.16	—	RT1405B6TR7
	22	—	4x9	1.27	RT1405B6PCT-ND†	2.96	2.37	1144.00	RT1405B6P
	22	—	4x9	1.00	RT1405B7PCT-ND†	3.14	2.51	—	RT1405B7P

*For Tape and Reel part number, change CT-ND to TR-ND. †Top Probe-able Devices.

LVDS Terminators

Features:

- Designed for termination of Xilinx® and Altera® FPGAs
- 8 or 16 differential channels of termination provided in a single intergrated package

Electrical Specifications:

- **Resistor Tolerance:** ±1.0%
- **Maximum Resistor Power:** 0.068 Watts @ 70°C
- **Maximum Package Power:** 1.0 Watts @ 70°C
- **Temperature Coefficient of Resistance:** ±200ppm/°C
- **Operating Temperature Range:** -55°C ~ 125°C

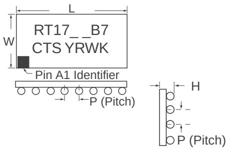

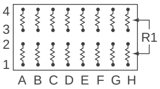

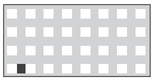

Top Probe-able

Part No.	L	W	H
RT1710B6	10.16	5.08	1.32
RT1710B7	8.00	4.00	1.19

R1 Ohms	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
100	4x8	1.27	RT1710B6CT-ND	2.03	1.62	783.00	RT1710B6TR7
100	4x8	1.27	RT1710B6PCT-ND†	2.23	1.79	861.00	RT1710B6P
100	4x8	1.00	RT1710B7CT-ND	2.17	1.74	838.00	RT1710B7TR7
100	4x8	1.00	RT1710B7PCT-ND†	2.39	1.91	—	RT1710B7P

*For Tape and Reel part number, change CT-ND to TR-ND. †Top Probe-able Devices.

CompactPCI Terminators

Features: 16 or 32 Bit Terminators

Electrical Specifications:

- **Resistor Tolerance:** ±5.0%
- **Maximum Resistor Power:** 0.05 Watts at 70°C
- **Maximum Package Power:** RT1200B7 = 0.8 Watts at 70°C, RT1201B7 = 1.6 Watts at 70°C
- **Temperature Coefficient of Resistance:** ±200 ppm/°C
- **Operating Temp. Range:** -55°C ~ 125°C

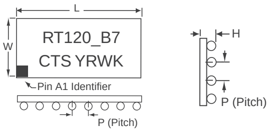

Part No.	L	W	H
RT1200B7	8.00	4.00	1.19
RT1201B7	16.00	4.00	1.19

Fig. 1

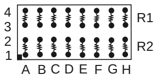

Fig. 2

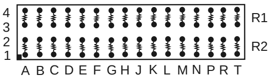

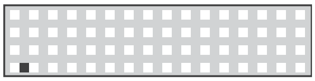

Top Probe-able

Fig.	R1 Ohms	No. Bits	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Tape & Reel Pricing* 1,000	CTS Part No.
1	10	16	4x8	1.00	RT1200B7CT-ND	2.17	1.74	838.00	RT1200B7TR7
2	10	32	4x16	1.00	RT1201B7CT-ND RT1201B7PCT-ND†	3.61 3.97	2.89 3.18	1396.00 1536.00	RT1201B7TR7 RT1201B7P

*For Tape and Reel part number, change CT-ND to TR-ND. †Top Probe-able Devices.

LVPECL Terminators

Features:

- 8 Bit Thevenin Termination Set
- Compliant for LVPECL Termination

Electrical Specifications:

• **Resistor Tolerance:** ±1.0% • **Maximum Resistor Power:** R1= 0.08 Watts at 70°C, R2 = 0.08 Watts at 70°C • **Maximum Package Power:** 1.0 Watts at 70°C • **Temperature Coefficient of Resistance:** ±200 ppm /°C • **Operating Temperature Range:** -55° ~ 125°C

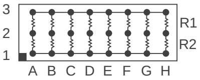

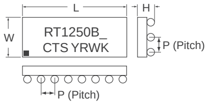

Part No.	L	W	H
RT1250B6	10.16	3.81	1.32
RT1250B7	8.00	3.00	1.19

R1 Ohms	R2 Ohms	No. Bits	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	CTS Part No.
127	82.5	8	1.27	RT1250B6CT-ND	2.09	1.67	RT1250B6TR7
127	82.5	8	1.00	RT1250B7CT-ND	2.25	1.80	RT1250B7TR7

*For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Memory and IDE Terminators

Features: • 16 or 32 Bit Terminators • Ultra Low I/O Coupling

Electrical Specifications: • **Resistor Tolerance:** ±5.0%
- **Maximum Resistor Power:** 0.05 Watts at 70°C
- **Maximum Package Power:** RT1202B7 = 0.8 Watts at 70°C, RT1203B7 = 1.6 Watts at 70°C
- **Temperature Coefficient of Resistance:** ±200 ppm/°C
- **Operating Temperature Range:** -55°C ~ 125°C

Fig. 1

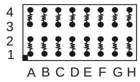

Fig. 2

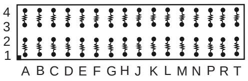

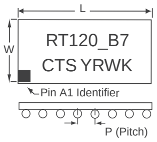

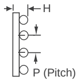

Part No.	L	W	H
RT1202B7	8.00	4.00	1.19
RT1203B7	16.00	4.00	1.19

Fig.	R1 Ohms	No. Bits	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	CTS Part No.
1	33	16	4 x 8	1.00	RT1202B7CT-ND	2.17	1.74	RT1202B7TR7
2	33	32	4 x 16	1.00	RT1203B7CT-ND	3.98	3.18	RT1203B7TR7

*For Tape and Reel part number, change CT-ND to TR-ND.

GTL, GTL+, AGTL+ Terminators

Features:
- 8-Bit, 16-Bit, and 32-Bit Termination Sets • Compliant for GTL, GTL+, and AGTL+ Termination

Electrical Specifications:
- **Resistor Tolerance:** ±1.0%
- **Maximum Resistor Power:** 0.05 Watts at 70°C (Not to Exceed Maximum Package Power)
- **Maximum Package Power (70°C):** 8 bit = 0.3 Watts, 16 bit = 0.6 Watts, 32 bit = 1.2 Watts
- **Temperature Coefficient of Resistance:** ±200 ppm/°C
- **Operating Temperature Range:** -55°C ~ 125°C

Fig. 1

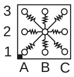

Fig. 2

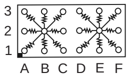

Fig. 3

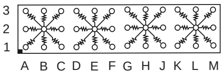

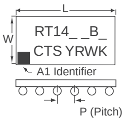

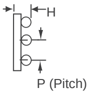

No. Bits	Pitch (mm)	L	W	H
8	1.27	3.81	3.81	1.32
16	1.27	7.62	3.81	1.32
32	1.27	15.24	3.81	1.32
32	1.00	12.00	3.00	1.19

Fig.	R1 Ohms	No. Bits	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Tape & Reel Pricing* 1,000	CTS Part No.
1	25	8	1.27	RT1450B6CT-ND	1.25	1.00	481.00	RT1450B6TR7
	56	8	1.27	RT1453B6CT-ND	1.25	1.00	481.00	RT1453B6TR7
	150	8	1.27	RT1410B6CT-ND	1.25	1.00	481.00	RT1410B6TR7
2	25	16	1.27	RT1451B6CT-ND	1.89	1.51	729.00	RT1451B6TR7
	56	16	1.27	RT1454B6CT-ND	1.89	1.51	729.00	RT1454B6TR7
	150	16	1.27	RT1411B6CT-ND	1.89	1.51	729.00	RT1411B6TR7
3	25	32	1.27	RT1452B6CT-ND	3.05	2.44	1179.00	RT1452B6TR7
	56	32	1.27	RT1427B6CT-ND	3.05	2.44	1179.00	RT1427B6TR7
	150	32	1.27	RT1412B6CT-ND	3.05	2.44	1179.00	RT1412B6TR7
	150	32	1.00	RT1412B7CT-ND	3.21	2.57	1241.00	RT1412B7TR7

*For Tape and Reel part number, change CT-ND to TR-ND.

PCI and PCIX Bias Networks

Features: • 8 or 16 Bit Bias Network • Compliant to PCI and PCIX

Electrical Specifications:
- **Resistor Tolerance:** ±1.0%
- **Maximum Resistor Power:** 0.05 Watts at 70°C
- **Maximum Package Power:** 1.0 Watts at 70°C
- **Temperature Coefficient of Resistance:** ±100 ppm/°C
- **Operating Temperature Range:** -55° ~ 125°C

Fig. 1

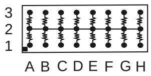

Fig. 2

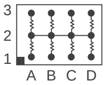

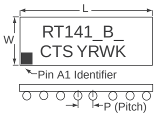

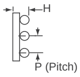

Part No.	L	W	H
RT1415B6 RT1416B6	5.08	3.81	1.32
RT1417B6 RT1418B6	10.16	3.81	1.32

Part No.	L	W	H
RT1415B7	4.00	3.00	1.19
RT1417B7	8.00	3.00	1.19

Fig.	R Ohms	No. Bits	Array Size	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Tape & Reel Pricing* 1,000	CTS Part No.
1	4.7K	16	3x8	1.27	RT1417B6CT-ND	1.81	1.45	699.00	RT1417B6TR7
	4.7K	16	3x8	1.00	RT1417B7CT-ND	1.97	1.58	—	RT1417B7TR7
	8.2K	16	3x8	1.27	RT1418B6CT-ND	1.81	1.45	699.00	RT1418B6TR7
2	4.7K	8	3x4	1.27	RT1415B6CT-ND	1.32	1.06	512.00	RT1415B6TR7
	4.7K	8	3x4	1.00	RT1415B7CT-ND	1.49	1.19	574.00	RT1415B7TR7
	8.2K	8	3x4	1.27	RT1416B6CT-ND	1.32	1.06	512.00	RT1416B6TR7

*For Tape and Reel part number, change CT-ND to TR-ND.

RT1300 Low Voltage Differential SCSI Active Termination Network

Features: • 9-Line LVD Termination Network • Ultra2, Ultra3 Compliant • Low Channel Capacitance Less Than 0.25pF • Laser Trimmed to 1% Tolerance

Electrical Specifications:
- **Resistor Tolerance:** ±1.0%
- **Maximum Resistor Power:** 0.05 Watts at 70°C (Not to exceed maximum package power)
- **Maximum Package Power (70°C):** 1.0 Watt
- **Temperature Coefficient of Resistance:** ±200 ppm/°C
- **Operating Temperature Range:** -55°C ~ 125°C

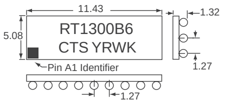

Bottom View

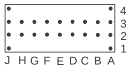

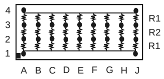

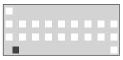

Top Prob-able

R1 Ohms	R2 Ohms	Pitch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Tape & Reel Pricing* 1,000	CTS Part No.
475	121	1.27	RT1300B6CT-ND	2.81	2.25	1086.00	RT1300B6TR7
475	121	1.27	RT1300B6PCT-ND †	3.09	2.48	1195.00	RT1300B6P

*For Tape and Reel part number, change CT-ND to TR-ND. †Top Probe-able Devices.

CTS

Thick Film Chip Resistor Arrays

Features: • Thick Film Chip Resistor Arrays High Density Packaging: 30% less space per resistor than 0603 chip resistors and 75% less space per resistor than 0805 chip resistors **• Placement Efficiency:** Require fewer placements than discrete components, larger overall size eases handling compared to discrete components **• Low Profile:** Suitable for PCMCIA applications **• Solder Coated Nickel Barrier Pads • Resistance Tolerance Standard:** ±5% or .5Ω, whichever is greater **• Operating Temperature Range:** -55°C ~ 125°C **• Temperature Coefficient (TCR) Standard:** ±200ppm/°C

Environmental Performance Specifications

Test	Maximum Delta R		Test Description
	741	742-746	
Thermal Cycle	1.0%	1.0%	5 Cycles -55°C ~ 125°C
Short Time Overload	2.5%	1.0%	2 1/2 x Rated voltage. 5 seconds (or maximum voltage)
Moisture Resistance	5.0%	2.0%	240 hours .1 rated load, -10°C 65°C, 90%RH
High Temperature Exposure	1.0%	1.0%	1000 hours. no load @ 125°C
Load Life	5.0%	2.0%	1000 hours @ 70°C, rated load
Resistance to Solder Heat	2.0%	1.0%	10 seconds @ 260°C solder
Resistance to Leach	—	—	120 seconds @ 260°C solder
Resistance to Solvents	—	—	Isopropyl alcohol, Freon TMC
Solderability	—	—	RMA flux, 230°C, 5 seconds dip, 95% coverage

741C SERIES

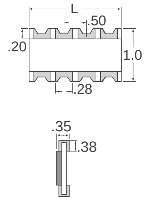

741X SERIES

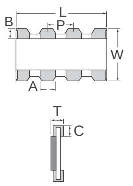

Electrical Specifications:

- **PCB Area (in²) per Resistor:** .0015 **• Circuit Type:** Isolated
- **Resistance Range Ω:** 10-1M **• Power per Resistor:** 63mW
- **Maximum Operating Voltage:** 25V

742 SERIES

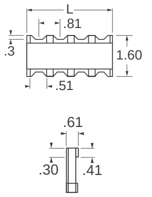

Electrical Specifications:

- **PCB Area (in²) per Resistor:** .0037 **• Circuit Type:** Isolated
- **Resistance Range Ω:** 10-1M
- **Power per Resistor:** .063W
- **Maximum Operating Voltage:** 50V

743 SERIES

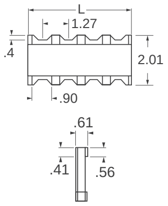

Electrical Specifications:

- **PCB Area (in²) per Resistor:** .0071 **• Circuit Type:** Isolated
- **Resistance Range Ω:** 10-1M
- **Power per Resistor:** .100W
- **Maximum Operating Voltage:** 100V

744 SERIES

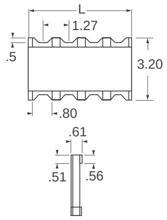

Electrical Specifications:

- **PCB Area (in²) per Resistor:** .0094 **• Circuit Type:** Isolated
- **Resistance Range Ω:** 10-1M
- **Power per Resistor:** .125W
- **Maximum Operating Voltage:** 200V

745 SERIES

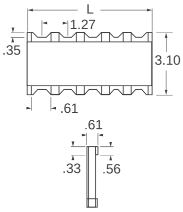

Electrical Specifications:

- **PCB Area (in²) per Resistor:** .0058 **• Circuit Type:** Bussed
- **Resistance Range Ω:** 100-100K **• Power per Resistor:** .063W **• Maximum Operating Voltage:** 50V

746 SERIES

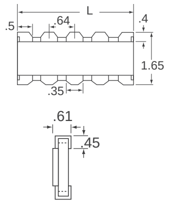

Electrical Specifications:

- **PCB Area (in²) per Resistor:** .0013 **• Circuit Type:** Bussed
- **Resistance Range Ω:** 100-100K **• Power per Resistor:** .031W **• Maximum Operating Voltage:** 25V

Series	Dimensions - mm					
	W	P	T	A	B	C
741X043	1.0	.65	.35	.33	.20	.38
741X083	1.0	.50	.35	.20	.20	.38
741C083	1.0	.50	.35	.28	.20	.38
741X163	1.6	.50	.45	.30	.30	.30

Series 741X and 742

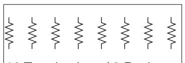

16 Terminations / 8 Resistors

Series 741C, 741X, 742, 743 and 744

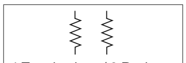

4 Terminations / 2 Resistors

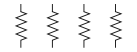

8 Terminations / 4 Resistors

Series 745 and 746

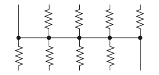

10 Terminations / 8 Resistors

Resistance Values
741C083 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	120 (121)	2.7K (272)	51K (513)
12 (120)	150 (151)	3.3K (332)	56K (563)
15 (150)	220 (221)	3.9K (392)	68K (683)
18 (180)	270 (271)	4.7K (472)	100K (104)
22 (220)	330 (331)	5.1K (512)	180K (184)
27 (270)	390 (391)	5.6K (562)	220K (224)
33 (330)	470 (471)	8.2K (822)	270K (274)
39 (390)	510 (511)	10K (103)	330K (334)
47 (470)	560 (561)	15K (153)	470K (474)
51 (510)	680 (681)	18K (183)	510K (514)
56 (560)	1K (102)	22K (223)	1M (105)
68 (680)	1.5K (152)	27K (273)	
82 (820)	1.8K (182)	33K (333)	
100 (101)	2.2K (222)	47K (473)	

Resistance Values
741X043, 741X083, 741X163 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)
10 (100)	56 (560)	4.7K (472)
22 (220)	100 (101)	10K (103)
33 (330)	1K (102)	47K (473)

Land Pattern

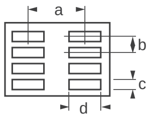

Series	Dimensions - mm			
	a	b	c	d
741	1.14	.50	.25	.61
742	1.80	.80	.50	.90
743	1.90	1.27	.80	1.20
744	3.00	1.27	.80	1.30
745	3.00	1.27	.80	1.30
746	1.52	.64	.35	.80

Resistance Values
742C043, 742C163, 743C043, 744C043 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
22 (220)	220 (221)	2.2K (222)	22K (223)	220K (224)
33 (330)	330 (331)	3.3K (332)	33K (333)	330K (334)
47 (470)	470 (471)	4.7K (472)	47K (473)	470K (474)
100 (101)	1K (102)	10K (103)	100K (104)	1MEG (105)

Resistance Values
742C083, 743C083, 744C083 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
10 (100)	68 (680)	470 (471)	3.3K (332)	22K (223)	150K (154)
12 (120)	82 (820)	510 (511)	3.9K (392)	27K (273)	180K (184)
15 (150)	100 (101)	560 (561)	4.7K (472)	33K (333)	220K (224)
18 (180)	110 (111)	680 (681)	5.1K (512)	39K (393)	270K (274)
22 (220)	120 (121)	820 (821)	5.6K (562)	47K (473)	330K (334)
27 (270)	150 (151)	1K (102)	6.8K (682)	51K (513)	390K (394)
33 (330)	180 (181)	1.2K (122)	8.2K (822)	56K (563)	470K (474)
39 (390)	220 (221)	1.5K (152)	10K (103)	68K (683)	510K (514)
47 (470)	270 (271)	1.8K (182)	12K (123)	82K (823)	560K (564)
51 (510)	330 (331)	2.2K (222)	15K (153)	100K (104)	680K (684)
56 (560)	390 (391)	2.7K (272)	18K (183)	120K (124)	820K (824)
					1MEG (105)

Resistance Values
745 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
100 (101)	680 (681)	2.2K (222)	10K (103)	47K (473)	330K (334)
150 (151)	470 (471)	3.3K (332)	15K (153)	68K (683)	470K (474)
220 (221)	1K (102)	4.7K (472)	22K (223)	100K (104)	
330 (331)	1.5K (152)	6.8K (682)	33K (333)	220K (224)	

Resistance Values
746 Series Chip Arrays

All values listed in Ω

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
100 (101)	330 (331)	1.5K (152)	3.3K (332)	15K (153)	47K (473)
150 (151)	470 (471)	2.2K (222)	4.7K (472)	22K (223)	100K (104)
220 (221)	1K (102)	2.7K (272)	10K (103)	33K (333)	

Series	No. of Terminals	No. of Res.	Dimension "L" (mm)	Resistor † Power Rating (mW@70°C)	Digi-Key* Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key* Part No.	Tape & Reel Pricing 4,000	5,000	10,000
741	4	2	1.0	63	741X043(Code)JCT-ND	.42	3.30	28.20	741X043(Code)JTR-ND	—	—	21.00/M
	8	4	2.0		741X083(Code)JCT-ND	.46	3.58	30.55	741X083(Code)JTR-ND	—	—	23.00/M
	8	4	2.0		741C083(Code)JCT-ND	.46	3.58	30.55	741C083(Code)JTR-ND	—	—	28.00/M
	16	8	3.80		741X163(Code)JCT-ND	1.58	12.38	105.75	741X163(Code)JTR-ND	—	90.00/M	79.00/M
742	4	2	1.60	63	742C043(Code)JCT-ND	.56	4.40	37.60	742C043(Code)JTR-ND	—	32.00/M	28.00/M
	8	4	3.20		742C083(Code)JCT-ND	.42	3.31	28.20	742C083(Code)JTR-ND	—	24.00/M	21.00/M
	16	8	6.40		742C163(Code)JCT-ND	1.75	13.75	117.50	742C163(Code)JTR-ND	100.00/M	—	—
743	4	2	2.54	100	743C043(Code)JCT-ND	1.33	10.45	89.30	743C043(Code)JTR-ND	76.00/M	—	—
	8	4	5.08		743C083(Code)JCT-ND	1.61	12.70	108.10	743C083(Code)JTR-ND	92.00/M	—	—
744	4	2	2.54	125	744C043(Code)JCT-ND	1.33	10.45	89.30	744C043(Code)JTR-ND	76.00/M	—	—
	8	4	5.08		744C083(Code)JCT-ND	1.61	12.70	108.10	744C083(Code)JTR-ND	92.00/M	—	—
745	10	8	6.40	63	745C101(Code)JCT-ND	2.10	16.50	141.00	745C101(Code)JTR-ND	120.00/M	—	—
746	10	8	3.30	31	746X101(Code)JCT-ND	1.12	8.80	75.20	746X101(Code)JTR-ND	—	64.00/M	56.00/M

* For complete part number, substitute the corresponding resistance code (listed above) for Code.

†***Note:*** Total Rated Package Power equals total number of resistors times rated Power per Resistor.

CTS® 753 SERIES In-Line Surface Mount Leadless Resistor Networks

Series 753 in-line surface mount leadless resistor networks provide the highest density per area of any conventional surface mount solution. In a bussed configuration, the networks provide two times the resistors per area compared to 0603 sized chips, and more than six times that offered by 0805 sized chips.

SPECIFICATIONS: • **Resistance Tolerance:** ±2% or 0.5Ω, whichever is greater • **Maximum Operating Voltage:** 25V, not to exceed rated power • **Temp. Coefficient:** ±200ppm/°C • **Operating Temperature Range:** -55°C ~ 125°C

FEATURES: • High density packaging • Solid ceramic construction • Available terminations per package: Single Row Terminations: 8, 9, 10; Dual Row Terminations: 16, 18, 20, 24 • Solder coated pads • Designed for visual inspection of solder joints and board cleaning

Fig. 1 — SRT Isolated

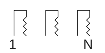

Fig. 2 — SRT Bussed

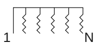

Fig. 3 —DRT Bussed

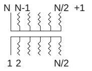

Fig. 4 — DRT Isolated

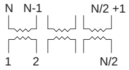

Fig. 5 —GTL Termination

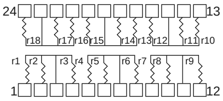
24
13
r18 r17 r16 r15 r14 r13 r12 r11 r10
r1 r2 r3 r4 r5 r6 r7 r8 r9
1
12

RESISTANCE VALUES

(All values listed in ohms)

SRT Bussed 8 Terminal	SRT Isolated 8 Terminal	SRT Bussed 9 Terminal	SRT Bussed 10 Terminal	DRT Bussed 16 Terminal	DRT Isolated 16 Terminal	DRT Bussed 18 Terminal	DRT Bussed 20 Terminal	DRT Bussed 24 Terminal	DRT Isolated 24 Terminal	DRT GTL 24 Terminal
Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value(Code)	Value (Code)	Value (Code)
1K (102)	33 (330)	100 (101)	1K (102)	110 (111)	22 (220)	1K (102)	10K (103)	10K (103)	22 (220)	39 (390)
10K (103)	100 (101)	1K (102)	10K (103)	10K (103)	39 (390)	5.6K (562)			100 (101)	51 (510)
	100K (104)	2.2K (222)	3.3K (332)		47 (470)	10K (103)				68 (680)
		4.7K (472)	4.7K (472)		100 (101)					
		10K (103)	47K (473)		10K (103)					
		22K (223)								
		100K (104)								

Fig.	No. of Term.	No. of Resistors	Dim. (mm) A	Dim. (mm) B	Res. Pwr. Rating (mW@70°C)	Digi-Key† Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key† Part No.	Tape & Reel Size	Tape & Reel Pricing
1	8	4	6.22	4.44	80	753083(Code)GCT-ND	2.43	22.28	202.50	753083(Code)GTR-ND	1,000	1215.00
2	9	8	6.86	4.90	40	753091(Code)GCT-ND	2.52	23.10	210.00	753091(Code)GTR-ND	1,000	1260.00
2	10	9	7.49	5.72	40	753101(Code)GCT-ND	2.52	23.10	210.00	753101(Code)GTR-ND	1,000	1260.00
3	16	14	6.22	4.44	40	753161(Code)GCT-ND	2.52	23.10	210.00	753161(Code)GTR-ND	1,000	1260.00
4	16	8	6.22	4.44	80	753163(Code)GCT-ND	2.43	22.28	202.50	753163(Code)GTR-ND	1,000	1215.00
3	18	16	6.86	4.90	40	753181(Code)GCT-ND	2.52	23.10	210.00	753181(Code)GTR-ND	1,000	1260.00
3	20	18	7.49	5.72	40	753201(Code)GCT-ND	2.52	23.10	210.00	753201(Code)GTR-ND	1,000	1260.00
3	24	22	8.76	6.98	40	753241(Code)GCT-ND	2.52	23.10	210.00	753241(Code)GTR-ND	1,000	1260.00
4	24	12	8.76	6.98	80	753243(Code)GCT-ND	2.43	22.28	202.50	753243(Code)GTR-ND	1,000	1215.00
5	24	18	8.76	6.98	60	75324G(Code)GCT-ND	2.43	22.28	202.50	75324G(Code)GTR-ND	1,000	1215.00

Fig.	No. of Term.	No. of Res.	Dim. (mm) A	Dim. (mm) B	Res. Pwr. Rating (mW@70°C)	Res. Value (ohms)	Digi-Key Part No.	Cut Tape Pricing 1	Cut Tape Pricing 10	Cut Tape Pricing 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing
2	8	7	6.22	4.44	40	1K	753081102GBK-ND	3.15	25.20	176.40	753081102GTR-ND	1,000	1092.00
2	8	7	6.22	4.44	40	10K	753081103GBK-ND	3.15	25.20	176.40	753081103GTR-ND	1,000	1092.00
3	18	16	6.86	4.90	40	22K	753181223GBK-ND	3.15	25.20	176.40	753181223GTR-ND	1,000	1092.00
3	18	16	6.86	4.90	40	4.7K	753181472GBK-ND	3.15	25.20	176.40	753181472GTR-ND	1,000	1092.00

† For complete part number, substitute the corresponding resistance *"code"* (from chart above).

Series 753

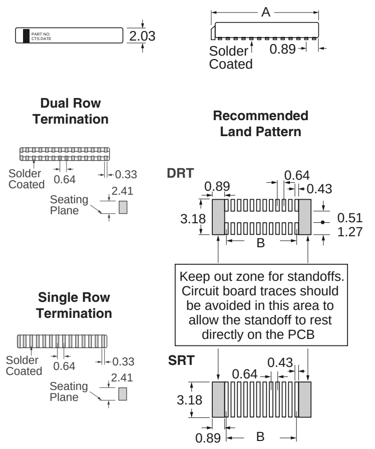

Keep out zone for standoffs. Circuit board traces should be avoided in this area to allow the standoff to rest directly on the PCB

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752 SERIES — Surface Mount Single Row & Dual Row Termination

Fig. 1 — SRT Bussed

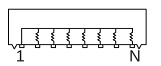

Fig. 2 — DRT Bussed

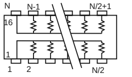

Fig. 3 — SRT Isolated

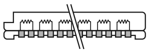

Fig. 4 — SRT Dual Term.

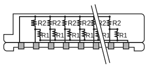

Fig. 5 — DRT Isolated

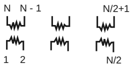

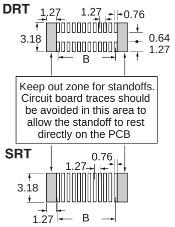

Keep out zone for standoffs. Circuit board traces should be avoided in this area to allow the standoff to rest directly on the PCB

SPECIFICATIONS: Res. Range: Standard: 22Ω to 1 MegΩ. **Res. Tolerance:** The Bussed and Isolated circuits are 2%, the Dual Terminator circuit is 5% **Max. Operating Voltage:** 25V not to exceed rated power **Temp. Coefficient:** Standard: ±200 PPM/°C **Dielectric Strength:** 100 VAC. **Operating Temp. Range:** -55°C ~ 125°C **In-line Surface Mount Resistor Networks:** • High density packaging • Low profile • Input/outputs available: Dual Row Terminations 16, 18, 20, 24; Single Row Terminations 8, 9, 10, 12 • Solder coated pads • Designed for visual inspection of solder joints and for board cleaning • 24mm tape and reel packaging • Meets UL-94VO requirements

RESISTANCE VALUES

SRT Bussed 9 Term.	SRT Bussed 10 Term.	DRT Bussed 16,18,20,24 Term.	SRT Isolated 8,10,12 Term.	DRT Isolated 24 Term.
100 1K 10K	1K	1K 47K	22 100 3.3K	22
560 2.2K 22K	3.3K	10K 100K	33 1K 4.7K	
680 4.7K 100K	10K		47 2.2K 10K	

	Bussed & Dual Terminator Schematic	Isolated Schematic
@25°C	.12w	.24w
@70°C	.08w	.16w

All values listed in ohms

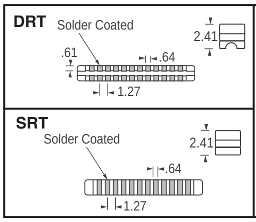

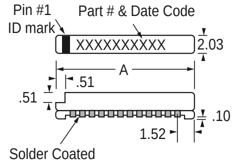

Max. Resistor Power (Not to exceed total network power)

Fig.	No. of Term.	No. of Res.	Dim. (mm) A	Dim. (mm) B	Res. Pwr. Rating (mW@70°C)	Digi-Key† Part No.	Bulk Pricing 1	Bulk Pricing 10	Bulk Pricing 100	Tape & Reel* Size	Tape & Reel* Pricing
1	9	8	13.08	10.16	80	752-091-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
2	16	14	11.81	8.89	80	752-161-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
2	18	16	13.08	10.16	80	752-181-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
2	20	18	14.35	11.43	80	752-201-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
2	24	22	16.89	13.97	80	752-241-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
3	8	4	11.81	8.89	160	752-083-(Value)BK-ND	2.36	18.90	132.30	1,000	819.00
3	10	5	14.35	11.43	160	752-103-(Value)BK-ND	2.36	18.90	132.30	1,000	819.00
3	12	6	16.89	13.97	160	752-123-(Value)BK-ND	2.36	18.90	132.30	1,000	819.00
4	10	16	14.35	11.43	80	752-105-220/330BK-ND	2.70	21.60	151.20	1,000	936.00
1	10	9	14.35	11.43	80	752-101-(Value)BK-ND	2.51	20.10	140.70	1,000	871.00
5	24	12	16.89	13.97	16	752-243-(Value)BK-ND	2.36	18.90	132.30	1,000	819.00

* For Tape and Reel part number, change BK-ND to TR-ND. † For complete part number, substitute the corresponding value from chart above (value).

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773 SERIES Single-In-Line

SPECIFICATIONS: • **Resistance Tolerance:** 2% • **Maximum Operating Voltage:** 100VDC • **Temperature Coefficient:** ±100 PPM/°C≥50Ω, ±200 PPM/°C≤50Ω • **Dielectric Withstand Voltage:** 200VDC • **Operating Temperature Range:** -55°C ~ 125°C • **Resistance Power @ 70°C:** -1 and -5 Schematic = .10 Watts and -3 Schematic = .20 Watts

FEATURES: • Low cost • High reliability cermet resistors • 2% standard resistor tolerance • Laser marking for permanent identification • High temperature solder • Low profile

All Resistance values listed in ohms

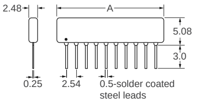

Fig. 1 - Bussed

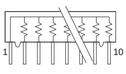

Fig. 2 - Isolated

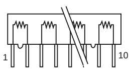

Fig. 3 - Dual Term

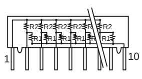

Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Res. Pwr. Rating (mW@70°C)	Digi-Key* Part No.	Pricing 1	Pricing 10	Pricing 100	Pricing 1,000
1	6	5	15.55	100	773061(Code)-ND	.35	2.78	18.50	92.50
2	6	3	15.55	200	773063(Code)-ND	.35	2.78	18.50	92.50
1	8	7	20.65	100	773081(Code)-ND	.46	3.60	24.00	120.00
2	8	4	20.65	200	773083(Code)-ND	.46	3.60	24.00	120.00
3	8	12	20.65	100	773085(Code)/(Code)-ND	.97	7.65	51.00	255.00
1	9	8	23.15	100	773091(Code)-ND	.71	5.63	37.50	187.50
1	10	9	25.65	100	773101(Code)-ND	.57	4.50	30.00	150.00
2	10	5	25.65	200	773103(Code)-ND	.57	4.50	30.00	150.00
3	10	16	25.65	100	773105(Code)/(Code)-ND	1.22	9.60	64.00	320.00

*For complete part number, substitute the corresponding resistance ***(Code).***

773061 Series (Bussed)

Value (Code)	Value (Code)
150 (151)	2.7K (272)
270 (271)	33K (333)
1.5K (152)	

773063 Series (Isolated)

Value (Code)	Value (Code)
560 (561)	220K (224)
2.2K (222)	1MEG (105)

773081 Series (Bussed)

Value (Code)	Value (Code)
150 (151)	470 (471)
180 (181)	510 (511)
270 (271)	

773083 Series (Isolated)

Value (Code)	Value (Code)
22 (220)	3.3K (332)
27 (270)	15K (153)
47 (470)	20K (203)
120 (121)	22K (223)
150 (151)	33K (333)
180 (181)	56K (563)
270 (271)	470K (474)
510 (511)	1MEG (105)

773085 Series (Dual Term)

Value (Code)
220/330 (221/331)

773091 Series (Bussed)

Value (Code)
27 (270)
10K (103)

773101 Series (Bussed)

Value (Code)	Value (Code)
47 (470)	120 (121)
100 (101)	33K (333)

773103 Series (Isolated)

Value (Code)	Value (Code)
33 (330)	10K (103)
47 (470)	33K (333)
100 (101)	47K (473)
470 (471)	100K (104)
560 (561)	220K (224)
1.5K (152)	

773105 Series (Dual Term)

Value (Code)
330/470 (331/471)

OVER 1,500 VALUES AVAILABLE

750 SERIES

Single-In-Line

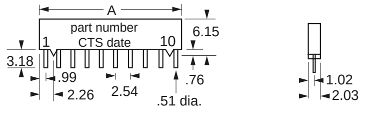

Solid ceramic networks are more efficient because they operate at lower temperatures. This translates into long term reliability in a resistor network.

Specifications:

- **Resistance Values:** 22Ω through 1MΩ • **Resistance Tolerance:** ±2% • **Temperature Coefficient:** ±100PPM/°C typical

Features:

- Low-profile construction • Excellent power dissipation • High reliability • Alumina substrate

770 SERIES

Single-In-Line Conformal

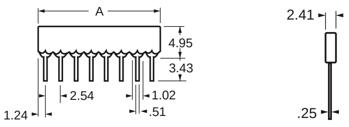

Standard Products 770 series is available in 6, 8, and 10 pin sizes, and in many available resistance values.

Specifications:

- **Resistance Values:** 22Ω through 1MΩ • **Resistance Tolerance:** ±2% • **Temperature Coefficient:** ±100PPM/°C typical

Features:

- High reliability resistors • Low-profile construction • .100" lead spacing • High reliability • Alumina substrate

760/761 SERIES

Dual-In-Line

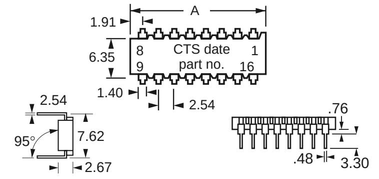

Requires 30% less board space than molded networks of the same power rating.

Specifications:

- **Resistance Range:** 22Ω through 1MΩ • **Resistance Tolerance:** Standard: ±2% • **Maximum Operating Voltage:** 50V not to exceed rated power • **Temperature Coefficient:** 100Ω through 1MΩ ±100PPM/°C typical, Below 100Ω ±200PPM/°C typical • **Operating Temperature Range:** –55°C ~ 125°C • **Storage Temperature Range:** –55°C ~ 125°C • **Dielectric Strength:** 100V

766/767 SERIES

Dual-In-Line Surface Mount

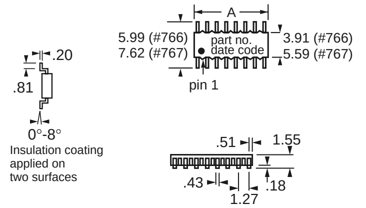

Thin cover coating generates higher power ratings. Thin proprietary cover protection keeps resistors near the surface, allowing the alumina substrate to act as a heat sink. That means higher power ratings than molded networks.

Specifications:

- **Resistance Values:** 22Ω through 1MΩ • **Resistance Tolerance:** ±2%. • **Temperature Coefficient:** ±100PPM/°C typical

768 SERIES

Dual-In-Line Surface Mount

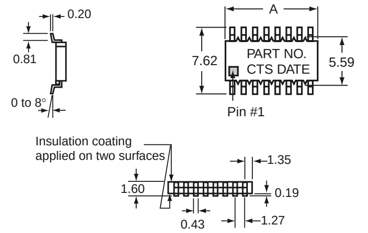

Medium body, small outline products. Low profile — board to network clearance of 0.005"/0.010".

Specifications:

- **Resistance Range:** Standard: 10Ω to 1MΩ • **Resistance Tolerance:** Standard: ±2% or 0.5Ω (whichever is greater) • **Maximum Operating Voltage:** 50V not to exceed rated power • **Temperature Coefficient:** Standard: 100Ω to 1MΩ ±100PPM/°C typical, 10Ω to 99Ω ±200PPM/°C typical • **Operating Temperature Range:** -55°C ~ 125°C
- **Dielectric Strength:** 100VAC

Fig. 1 - Bussed

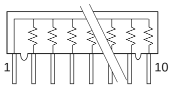

Fig. 2 - Isolated

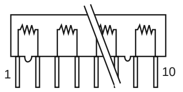

Fig. 3 - Dual Term

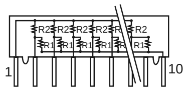

Fig. 4 - Bussed

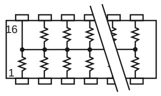

Fig. 5 - Isolated

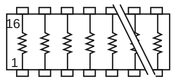

Fig. 6 - Dual Term

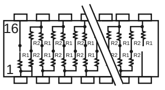

AVAILABLE VALUES
(listed in ohms)

Isolated and Bussed Circuits

22	56	180	470	1.2K	3.3K	8.2K	22K	68K	220K	680K
27	68	200	510	1.5K	3.9K	10K	27K	82K	270K	820K
33	82	220	560	1.8K	4.7K	12K	33K	100K	330K	1 Meg
39	100	270	680	2K	5.1K	15K	39K	120K	390K	
47	120	330	820	2.2K	5.6K	18K	47K	150K	470K	
51	150	390	1K	2.7K	6.8K	20K	56K	180K	560K	

AVAILABLE VALUES
(listed in Ω)

750 and 770 SERIES Dual Terminator Circuits
81/130
121/195
162/260
180/390
220/330
330/390

AVAILABLE VALUES
(listed in Ω)

760/761 SERIES Dual Terminator Circuits
180/390
220/270
220/330
330/390
680/1.5K
1.5K/3.3K

AVAILABLE VALUES
(listed in Ω)

766/767 and 768 SERIES Dual Terminator Circuits
180/390
220/330
330/390
330/470

Series	Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Resistor Power Rating (mW@70°C)	Digi-Key* Part No.	Pricing 1	10	100	1,000
750	1	6	5	14.68	250	750-61-R(Value)-ND	.91	7.95	62.43	454.00
	1	8	7	19.76	250	750-81-R(Value)-ND	1.05	9.17	72.05	524.00
	1	10	9	24.84	250	750-101-R(Value)-ND	1.25	10.92	85.80	624.00
	2	6	3	14.68	400	750-63-R(Value)-ND	.91	7.95	62.43	454.00
	2	8	4	19.76	400	750-83-R(Value)-ND	1.05	9.17	72.05	524.00
	2	10	5	24.84	400	750-103-R(Value)-ND	1.25	10.92	85.80	624.00
	3	8	12	19.76	250	750-85-R(Value)-ND	1.41	12.36	97.08	706.00
	3	10	16	24.84	250	750-105-R(Value)-ND	1.70	14.91	117.15	852.00
770	1	6	5	15.19	100	770-61-R(Value)-ND	.21	1.76	13.20	88.00
	1	8	7	20.27	100	770-81-R(Value)-ND	.28	2.36	17.70	118.00
	1	10	9	25.35	100	770-101-R(Value)-ND	.30	2.63	20.63	150.00
	2	6	3	15.19	200	770-63-R(Value)-ND	.21	1.76	13.20	88.00
	2	8	4	20.27	200	770-83-R(Value)-ND	.28	2.36	17.70	118.00
	2	10	5	25.35	200	770-103-R(Value)-ND	.30	2.63	20.63	150.00
	3	8	12	20.27	100	770-85-R(Value)-ND	.57	4.84	36.30	242.00
	3	10	16	25.35	100	770-105-R(Value)-ND	.54	4.76	37.40	272.00
760/761	4	14	13	19.05	150	760-1-R(Value)-ND	.98	8.13	68.25	422.50
	4	16	15	21.59	150	761-1-R(Value)-ND	1.00	9.16	83.25	499.50
	5	14	7	19.05	300	760-3-R(Value)-ND	.98	8.13	68.25	422.50
	5	16	8	21.59	300	761-3-R(Value)-ND	1.00	9.16	83.25	499.50
	6	14	24	19.05	150	760-5-R(Value)-ND	1.35	11.28	94.71	586.30
	6	16	28	21.59	150	761-5-R(Value)-ND	1.38	12.62	114.75	688.50

Series	Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Resistor Power Rating (mW@70°C)	Digi-Key* Part No.	Pricing 1	10	100	1,000
766	4	14	13	8.64	80	766-141-R(Value)-ND	1.22	9.72	68.04	421.20
	4	16	15	9.91	80	766-161-R(Value)-ND	1.22	9.72	68.04	421.20
	5	14	7	8.64	160	766-143-R(Value)-ND	1.22	9.72	68.04	421.20
	5	16	8	9.91	160	766-163-R(Value)-ND	1.22	9.72	68.04	421.20
	6	14	24	8.64	80	766-145-R(Value)-ND	1.43	11.40	79.80	494.00
	6	16	28	9.91	80	766-165-R(Value)-ND	1.43	11.40	79.80	494.00
767	4	14	13	9.91	100	767-141-R(Value)-ND	.66	5.25	36.75	227.50
	4	16	15	11.18	100	767-161-R(Value)-ND	.66	5.25	36.75	227.50
	5	14	7	9.91	200	767-143-R(Value)-ND	.66	5.25	36.75	227.50
	5	16	8	11.18	200	767-163-R(Value)-ND	.66	5.25	36.75	227.50
	6	14	24	9.91	100	767-145-R(Value)-ND	.71	5.64	39.48	244.40
	6	16	28	11.18	100	767-165-R(Value)-ND	.71	5.64	39.48	244.40
768	4	14	13	9.91	130	768-141-R(Value)-ND	.66	5.25	36.75	227.50
	4	16	15	11.18	150	768-161-R(Value)-ND	.66	5.25	36.75	227.50
	5	14	7	9.91	130	768-143-R(Value)-ND	.66	5.25	36.75	227.50
	5	16	8	11.18	150	768-163-R(Value)-ND	.66	5.25	36.75	227.50
	6	14	24	9.91	130	768-145-R(Value)-ND	.71	5.64	39.48	244.40
	6	16	28	11.18	150	768-165-R(Value)-ND	.71	5.64	39.48	244.40

* For complete part number, substitute the corresponding value from the above chart (Value).

Resistor Networks

4100R Series

4116R

Thick Film Molded DIPs

• Compatible with automatic insertion equipment • Copper leads for excellent heat dissipation • High temperature lead attachment to withstand reflow solder temperatures up to 260°C • Trifurcated Krimp-Joint™ lead attachment for product reliability and strength

Electrical Characteristics:
• **Maximum Operating Voltage:** 100V • **Temperature Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C, below 50Ω: ±250ppm/°C • **Operating Temperature:** -55°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 90/10 electroplate • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω ±2%

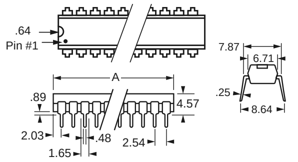

4800P Series

4816P

Thick Film Surface Mount Medium Body (5.59mm)

• Standard E.I.A. (SOGN-0002) package compatible with automatic placement equipment. • High temperature lead attachment to withstand reflow temperatures up to 260°C.

Electrical Characteristics:
• **Maximum Operating Voltage:** 50V • **Temperature Coefficient of Resistance:** 50Ω and above: ±100ppm/°C; below 50Ω: ±250ppm/°C • **Operating Temperature:** -55°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum. • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 60/40 solder dip • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω ±2%

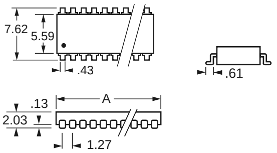

All values listed in Ω

Resistance Values (001 and 002)
Isolated and Bussed Circuits

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
22 (220)	220 (221)	2K (202)	18K (183)	150K (154)
27 (270)	270 (271)	2.2K (222)	20K (203)	180K (184)
33 (330)	330 (331)	2.7K (272)	22K (223)	220K (224)
39 (390)	390 (391)	3.3K (332)	27K (273)	270K (274)
47 (470)	470 (471)	3.9K (392)	33K (333)	330K (334)
56 (560)	560 (561)	4.7K (472)	39K (393)	390K (394)
68 (680)	680 (681)	5.6K (562)	47K (473)	470K (474)
82 (820)	820 (821)	6.8K (682)	56K (563)	560K (564)
100 (101)	1K (102)	8.2K (822)	68K (683)	680K (684)
120 (121)	1.2K (122)	10K (103)	82K (823)	820K (824)
150 (151)	1.5K (152)	12K (123)	100K (104)	1M (105)
180 (181)	1.8K (182)	15K (153)	120K (124)	

Resistance Values (003)
Dual Terminator Circuits

Value (Code)
180/390 (181/391)
220/270 (221/271)
220/330 (221/331)
330/390 (331/391)
330/470 (331/471)
3K/6.2K (302/622)

4300R Series

4306R, 4308R and 4310R

Thick Film Molded SIPs, Low Profile

• Low profile provides compatibility with DIPs • Compatible with automatic insertion equipment • High temperature lead attachment to withstand reflow temperatures up to 260°C • Copper leads for excellent heat dissipation

Electrical Characteristics:
• **Maximum Operating Voltage:** 100V • **Temperature Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C; below 50Ω: ±250ppm/°C • **Operating Temperature:** -55°C ~ 125°C • **Power Rating:** Derate to zero power from 70°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 90/10 plated • **Body Material**: Novolac Epoxy

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω±2%

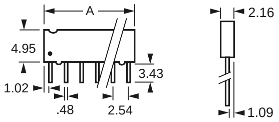

4600X Series

4606X, 4608X and 4610X

Thick Film Conformal SIPs, Low Profile

• Low Profile is compatible with DIPs • High temperature lead attachment to withstand reflow temperatures up to 260°C

Electrical Characteristics:
• **Maximum Operating Voltage:** 100V • **Temperature Coefficient of Resistance:** 50Ω to 2.2MΩ: ±100ppm/°C, below 50Ω: ±250/ppm°C • **Operating Temperature:** -55°C ~ 125°C

Environmental Characteristics:
• **Insulation Resistance:** 10,000MΩ minimum • **Dielectric Withstanding Voltage:** 200 VRMS • **Lead Solderability/Solvent Resistance:** Meet requirements of MIL-R-83401

Physical Characteristics:
• **Flammability:** Conforms to UL94V-0 • **Lead Frame Material:** Copper (OLIN 194) 60/40 solder dip • **Body Material**: Epoxy resin/anhydride disphenol A

Resistance Tolerance:
• **Isolated/Bussed:** Below 50Ω ±1Ω; Above 50Ω ±2%
• **Dual Terminated:** Below 100Ω ±2Ω; Above 100Ω ±2%

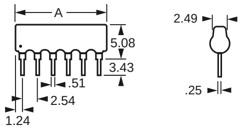

All values listed in Ω

Resistance Values (001 and 002)
Isolated and Bussed Circuits

Value (Code)	Value (Code)	Value (Code)	Value (Code)	Value (Code)
22 (220)	220 (221)	2K (202)	18K (183)	150K (154)
27 (270)	270 (271)	2.2K (222)	20K (203)	180K (184)
33 (330)	330 (331)	2.7K (272)	22K (223)	220K (224)
39 (390)	390 (391)	3.3K (332)	27K (273)	270K (274)
47 (470)	470 (471)	3.9K (392)	33K (333)	330K (334)
56 (560)	560 (561)	4.7K (472)	39K (393)	390K (394)
68 (680)	680 (681)	5.6K (562)	47K (473)	470K (474)
82 (820)	820 (821)	6.8K (682)	56K (563)	560K (564)
100 (101)	1K (102)	8.2K (822)	68K (683)	680K (684)
120 (121)	1.2K (122)	10K (103)	82K (823)	820K (824)
150 (151)	1.5K (152)	12K (123)	100K (104)	1M (105)
180 (181)	1.8K (182)	15K (153)	120K (124)	

Resistance Values (004)
Dual Terminator Circuits

Value (Code)
160/240 (161/241)
180/390 (181/391)
220/270 (221/271)
220/330 (221/331)
330/390 (331/391)
330/470 (331/471)
3K/6.2K (302/622)

Fig. 1 – Isolated

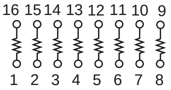

Fig. 2 – Bussed

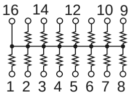

Fig. 3 – Dual Term

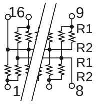

Fig. 4 – Dual Term

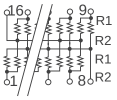

Fig. 5 – Isolated

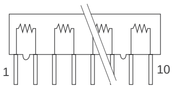

Fig. 6 – Bussed

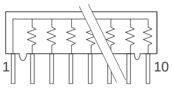

Fig. 7 – Dual Term

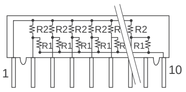

Series	Fig.	No. of Pins	No. of Res.	Dim. "A" (mm)	Element Power Rating (W @ 70°C)	Digi-Key* Part No.	Pricing						Bourns* Part No.
							1	10	50	100	500	1,000	
4100	1	16	8	21.97	.25	4116R-1-(Code)-ND	.60	5.27	22.10	37.78	157.41	264.00	4116R-1-(Code)
	2	16	15	21.97	.125	4116R-2-(Code)-ND	.60	5.27	22.10	37.78	157.41	264.00	4116R-2-(Code)
	3	16	28	21.97	.125	4116R-3-(Code)/(Code)-ND	1.27	11.28	47.32	80.89	337.04	566.00	4116R-3-(Code)/(Code)
4300	6	6	5	14.83	.20	4306R-1-(Code)-ND	.47	4.19	17.55	30.00	125.00	210.00	4306R-101-(Code)
	5	6	3	14.83	.30	4306R-2-(Code)-ND	.47	4.19	17.55	30.00	125.00	210.00	4306R-102-(Code)
	7	6	8	14.83	.20	4306R-4-(Code)/(Code)-ND	.67	5.89	24.70	42.22	175.93	296.00	4306R-104-(Code)/(Code)
	6	8	7	19.91	.20	4308R-1-(Code)-ND	.54	4.81	20.15	34.44	143.52	241.00	4308R-101-(Code)
	5	8	4	19.91	.30	4308R-2-(Code)-ND	.54	4.81	20.15	34.44	143.52	241.00	4308R-102-(Code)
	7	8	12	19.91	.20	4308R-4-(Code)/(Code)-ND	.74	6.51	27.30	46.67	194.44	327.00	4308R-104-(Code)/(Code)
	6	10	9	24.99	.20	4310R-1-(Code)-ND	.65	5.74	24.05	41.11	171.30	288.00	4310R-101-(Code)
	5	10	5	24.99	.30	4310R-2-(Code)-ND	.65	5.74	24.05	41.11	171.30	288.00	4310R-102-(Code)
	7	10	16	24.99	.20	4310R-4-(Code)/(Code)-ND	.88	7.75	32.50	55.56	231.48	389.00	4310R-104-(Code)/(Code)
4600	6	6	5	15.19	.20	4606X-1-(Code)-ND	.25	2.23	9.36	16.00	66.67	112.00	4606X-101-(Code)
	5	6	3	15.19	.30	4606X-2-(Code)-ND	.25	2.23	9.36	16.00	66.67	112.00	4606X-102-(Code)
	7	6	8	15.19	.20	4606X-4-(Code)/(Code)-ND	.53	4.65	19.50	33.33	138.89	233.00	4606X-104-(Code)/(Code)
	6	8	7	20.27	.20	4608X-1-(Code)-ND	.32	2.79	11.70	20.00	83.33	140.00	4608X-101-(Code)
	5	8	4	20.27	.30	4608X-2-(Code)-ND	.32	2.79	11.70	20.00	83.33	140.00	4608X-102-(Code)
	7	8	12	20.27	.20	4608X-4-(Code)/(Code)-ND	.63	5.58	23.40	40.00	166.67	280.00	4608X-104-(Code)/(Code)
	6	10	9	25.35	.20	4610X-1-(Code)-ND	.39	3.41	14.30	24.44	101.85	171.00	4610X-101-(Code)
	5	10	5	25.35	.30	4610X-2-(Code)-ND	.39	3.41	14.30	24.44	101.85	171.00	4610X-102-(Code)
	7	10	16	25.35	.20	4610X-4-(Code)/(Code)-ND	.70	6.20	26.00	44.44	185.19	311.00	4610X-104-(Code)/(Code)
	1	16	8	12.45	.160	4816P-1-(Code)-ND	1.12	9.92	41.60	71.00	300.00	500.00	4816P-T01-(Code)
4800	2	16	15	12.45	.080	4816P-2-(Code)-ND	1.12	9.92	41.60	71.00	300.00	500.00	4816P-T02-(Code)
	4	16	28	12.45	.080	4816P-3-(Code)/(Code)-ND	1.75	15.50	65.00	110.94	468.75	781.00	4816P-T03-(Code)/(Code)

* For complete part number, substitute the corresponding resistance code (listed above) for Value.

SMD Sealed Type Trimmer Potentiometers 3mm - PVG3 Series

Features:

- Sealed construction protects the internal from dust and liquid, which achieves stable performance
- Driver plate with cross-slot is suitable for automatic adjustment
- Rotor with large diameter and deep groove improves driver insertion
- Heat resistance performance enables high temperature peak re-flow soldering
- RoHS Compliant

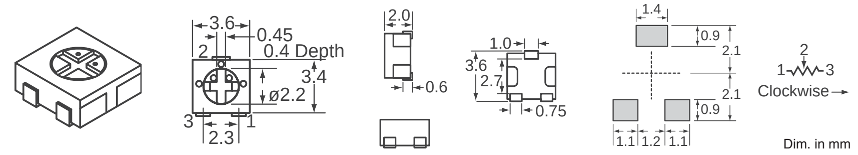

Dim. in mm

Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 1,000	Murata Part No.
						1	10	100			
0.25 (70°C)	Reflow	1 (210° ±10)	10 ohm ±20%	±150	490-2641-1-ND	.80	.68	.59	490-2641-2-ND	399.51	PVG3A100C01R00
			20 ohm ±20%	±150	490-2647-1-ND	.80	.68	.59	490-2647-2-ND	399.51	PVG3A200C01R00
			50 ohm ±20%	±150	490-2653-1-ND	.80	.68	.59	490-2653-2-ND	399.51	PVG3A500C01R00
			100 ohm ±20%	±150	490-2642-1-ND	.80	.68	.59	490-2642-2-ND	399.51	PVG3A101C01R00
			200 ohm ±20%	±150	490-2648-1-ND	.80	.68	.59	490-2648-2-ND	399.51	PVG3A201C01R00
0.25 (70°C)	Reflow	1 (210° ±10)	500 ohm ±20%	±150	490-2654-1-ND	.80	.68	.59	490-2654-2-ND	399.51	PVG3A501C01R00
			1K ohm ±20%	±150	490-2643-1-ND	.80	.68	.59	490-2643-2-ND	399.51	PVG3A102C01R00
			2K ohm ±20%	±150	490-2649-1-ND	.80	.68	.59	490-2649-2-ND	399.51	PVG3A202C01R00
			5K ohm ±20%	±150	490-2655-1-ND	.80	.68	.59	490-2655-2-ND	399.51	PVG3A502C01R00
			10K ohm ±20%	±150	490-2644-1-ND	.80	.68	.59	490-2644-2-ND	399.51	PVG3A103C01R00
0.25 (70°C)	Reflow	1 (210° ±10)	20K ohm ±20%	±150	490-2650-1-ND	.80	.68	.59	490-2650-2-ND	399.51	PVG3A203C01R00
			50K ohm ±20%	±150	490-2656-1-ND	.80	.68	.59	490-2656-2-ND	399.51	PVG3A503C01R00
			100K ohm ±20%	±150	490-2645-1-ND	.80	.68	.59	490-2645-2-ND	399.51	PVG3A104C01R00
			200K ohm ±20%	±150	490-2651-1-ND	.80	.68	.59	490-2651-2-ND	399.51	PVG3A204C01R00
			500K ohm ±20%	±150	490-2657-1-ND	.80	.68	.59	490-2657-2-ND	399.51	PVG3A504C01B00
0.25 (70°C)	Reflow	1 (210° ±10)	1M ohm ±20%	±150	490-2646-1-ND	.80	.68	.59	490-2646-2-ND	399.51	PVG3A105C01R00
			2M ohm ±20%	±150	490-2652-1-ND	.80	.68	.59	490-2652-2-ND	399.51	PVG3A205C01R00

SMD Sealed Type Trimmer Potentiometers Multi-Turn - PVG5 Series

Features: • High resolution resulting from 11-turns design enables precise adjustment • Compatible with VPS reflow soldering method • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive wiper rotation • RoHS Compliant

Fig. 1

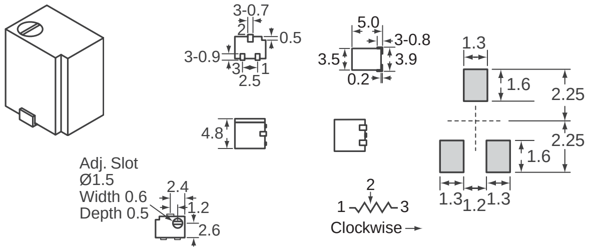

Fig. 2

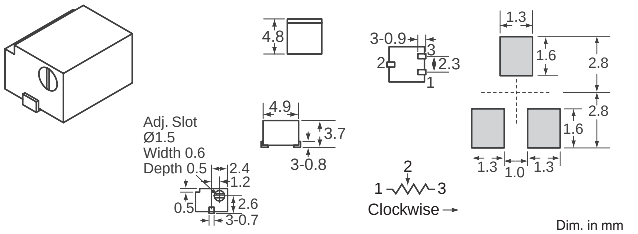

Dim. in mm

Fig.	Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Murata Part No.
							1	10	100		Size	Pricing	
1	0.25 (70°C)	Reflow	11	10 ohm ±10%	±150	490-2658-1-ND	2.42	2.08	1.80	490-2658-2-ND	250	311.00	PVG5A100C01R00
				20 ohm ±10%	±150	490-2664-1-ND	2.42	2.08	1.80	490-2664-2-ND	250	311.00	PVG5A200C01R00
				50 ohm ±10%	±150	490-2670-1-ND	2.19	1.88	1.63	490-2670-2-ND	250	281.88	PVG5A500C01R00
				100 ohm ±10%	±150	490-2659-1-ND	2.42	2.08	1.80	490-2659-2-ND	250	311.00	PVG5A101C01R00
				200 ohm ±10%	±150	490-2665-1-ND	2.42	2.08	1.80	490-2665-2-ND	250	311.00	PVG5A201C01R00
	0.25 (70°C)	Reflow	11	500 ohm ±10%	±150	490-2671-1-ND	2.42	2.08	1.80	490-2671-2-ND	250	311.00	PVG5A501C01R00
				1K ohm ±10%	±150	490-2660-1-ND	2.42	2.08	1.80	490-2660-2-ND	250	311.00	PVG5A102C01R00
				2K ohm ±10%	±150	490-2666-1-ND	2.42	2.08	1.80	490-2666-2-ND	250	311.00	PVG5A202C01R00
				5K ohm ±10%	±150	490-2672-1-ND	2.42	2.08	1.80	490-2672-2-ND	250	311.00	PVG5A502C01R00
				10K ohm ±10%	±150	490-2661-1-ND	2.42	2.08	1.80	490-2661-2-ND	250	311.00	PVG5A103C01R00
	0.25 (70°C)	Reflow	11	20K ohm ±10%	±150	490-2667-1-ND	2.42	2.08	1.80	490-2667-2-ND	250	311.00	PVG5A203C01R00
				50K ohm ±10%	±150	490-2673-1-ND	2.42	2.08	1.80	490-2673-2-ND	250	311.00	PVG5A503C01R00
				100K ohm ±10%	±150	490-2662-1-ND	2.42	2.08	1.80	490-2662-2-ND	250	311.00	PVG5A104C01R00
				200K ohm ±10%	±150	490-2668-1-ND	2.42	2.08	1.80	490-2668-2-ND	250	311.00	PVG5A204C01R00
				500K ohm ±10%	±150	490-2674-1-ND	2.42	2.08	1.80	490-2674-2-ND	250	311.00	PVG5A504C01R00
	0.25 (70°C)	Reflow	11	1M ohm ±10%	±150	490-2663-1-ND	2.42	2.08	1.80	490-2663-2-ND	250	311.00	PVG5A105C01R00
				2M ohm ±10%	±150	490-2669-1-ND	2.42	2.08	1.80	490-2669-2-ND	250	311.00	PVG5A205C01R00
2	0.25 (70°C)	Reflow	11	10 ohm ±10%	±150	490-2675-1-ND	2.42	2.08	1.80	490-2675-2-ND	500	621.99	PVG5H100C01R00
				20 ohm ±10%	±150	490-2681-1-ND	2.42	2.08	1.80	490-2681-2-ND	500	621.99	PVG5H200C01R00
				50 ohm ±10%	±150	490-2687-1-ND	2.19	1.88	1.63	490-2687-2-ND	500	563.76	PVG5H500C01R00
				100 ohm ±10%	±150	490-2676-1-ND	2.42	2.08	1.80	490-2676-2-ND	500	621.99	PVG5H101C01R00
				200 ohm ±10%	±150	490-2682-1-ND	2.42	2.08	1.80	490-2682-2-ND	500	621.99	PVG5H201C01R00
	0.25 (70°C)	Reflow	11	500 ohm ±10%	±150	490-2688-1-ND	2.42	2.08	1.80	490-2688-2-ND	500	621.99	PVG5H501C01R00
				1K ohm ±10%	±150	490-2677-1-ND	2.42	2.08	1.80	490-2677-2-ND	500	621.99	PVG5H102C01R00
				2K ohm ±10%	±150	490-2683-1-ND	2.42	2.08	1.80	490-2683-2-ND	500	621.99	PVG5H202C01R00
				5K ohm ±10%	±150	490-2689-1-ND	2.42	2.08	1.80	490-2689-2-ND	500	621.99	PVG5H502C01R00
				10K ohm ±10%	±150	490-2678-1-ND	2.42	2.08	1.80	490-2678-2-ND	500	621.99	PVG5H103C01R00
	0.25 (70°C)	Reflow	11	20K ohm ±10%	±150	490-2684-1-ND	2.42	2.08	1.80	490-2684-2-ND	500	621.99	PVG5H203C01R00
				50K ohm ±10%	±150	490-2690-1-ND	2.42	2.08	1.80	490-2690-2-ND	500	621.99	PVG5H503C01R00
				100K ohm ±10%	±150	490-2679-1-ND	2.42	2.08	1.80	490-2679-2-ND	500	621.99	PVG5H104C01R00
				200K ohm ±10%	±150	490-2685-1-ND	2.42	2.08	1.80	490-2685-2-ND	500	621.99	PVG5H204C01R00
				500K ohm ±10%	±150	490-2691-1-ND	2.42	2.08	1.80	490-2691-2-ND	500	621.99	PVG5H504C01R00
	0.25 (70°C)	Reflow	11	1M ohm ±10%	±150	490-2680-1-ND	2.42	2.08	1.80	490-2680-2-ND	500	621.99	PVG5H105C01R00
				2M ohm ±10%	±150	490-2686-1-ND	2.42	2.08	1.80	490-2686-2-ND	500	621.99	PVG5H205C01R00

Sealed Single-Turn Trimmer Potentiometers - PVC6 Series

Features: • Enlarged rotor provides superior adjustability • 11-scales are easy to see adjustment position • Colored rotor provides superior adjustability • Funnel shaped rotor allows for in-process automatic adjustment and it provides superior adjustability • RoHS Compliant

Specifications: • Power Rating: 0.5 (70°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 1 (240° ± 5°)

Dim in mm

Fig. 1

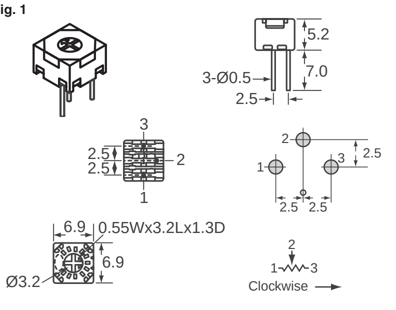

Fig. 2

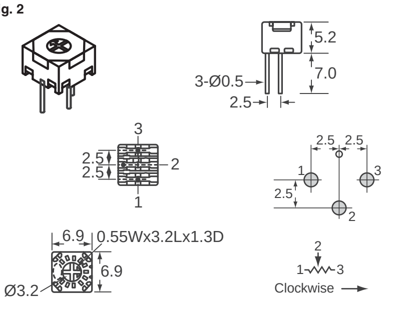

Fig. 3

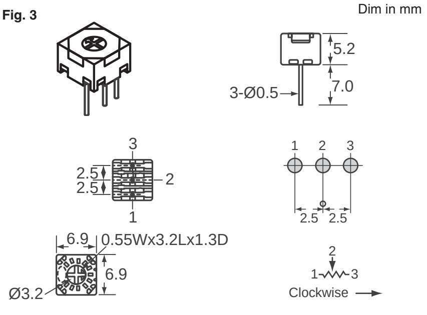

Fig. 4

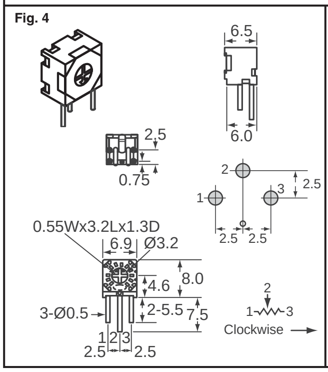

Fig. 5

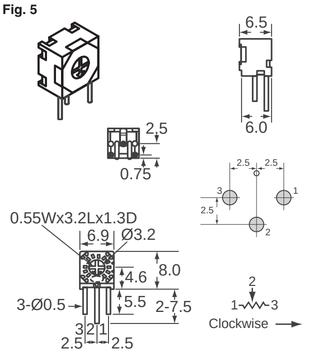

Fig. 6

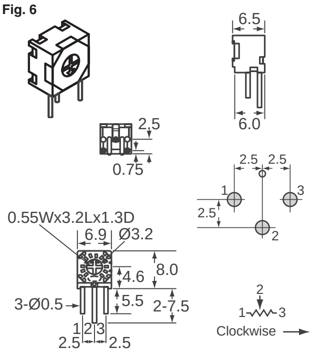

Fig. 7

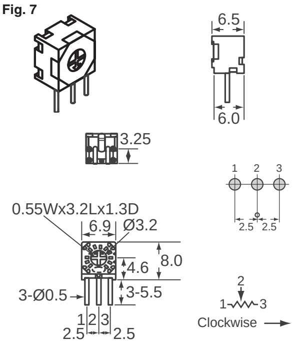

	Top Adjust								
	Fig. 1		Fig. 2		Fig. 3		Price Each		
Ohms	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	1	10	100
10	490-2692-ND	PVC6A100C01B00	490-2715-ND	PVC6D100C01B00	490-2807-ND	PVC6M100C01B00	1.05	.79	.71
20	490-2698-ND	PVC6A200C01B00	490-2721-ND	PVC6D200C01B00	490-2813-ND	PVC6M200C01B00	1.05	.79	.71
25	490-2704-ND	PVC6A250C01B00	490-2727-ND	PVC6D250C01B00	490-2819-ND	PVC6M250C01B00	1.05	.79	.71
50	490-2709-ND	PVC6A500C01B00	490-2732-ND	PVC6D500C01B00	490-2824-ND	PVC6M500C01B00	1.05	.79	.71
100	490-2693-ND	PVC6A101C01B00	490-2716-ND	PVC6D101C01B00	490-2808-ND	PVC6M101C01B00	1.05	.79	.71
200	490-2699-ND	PVC6A201C01B00	490-2722-ND	PVC6D201C01B00	490-2814-ND	PVC6M201C01B00	1.05	.79	.71
250	490-2705-ND	PVC6A251C01B00	490-2728-ND	PVC6D251C01B00	490-2820-ND	PVC6M251C01B00	1.05	.79	.71
500	490-2710-ND	PVC6A501C01B00	490-2733-ND	PVC6D501C01B00	490-2825-ND	PVC6M501C01B00	1.05	.79	.71
1K	490-2694-ND	PVC6A102C01B00	490-2717-ND	PVC6D102C01B00	490-2809-ND	PVC6M102C01B00	1.05	.79	.71
2K	490-2700-ND	PVC6A202C01B00	490-2723-ND	PVC6D202C01B00	490-2815-ND	PVC6M202C01B00	1.05	.79	.71
2.5K	490-2706-ND	PVC6A252C01B00	490-2729-ND	PVC6D252C01B00	490-2821-ND	PVC6M252C01B00	1.05	.79	.71
5K	490-2711-ND	PVC6A502C01B00	490-2734-ND	PVC6D502C01B00	490-2826-ND	PVC6M502C01B00	1.05	.79	.71
10K	490-2695-ND	PVC6A103C01B00	490-2718-ND	PVC6D103C01B00	490-2810-ND	PVC6M103C01B00	1.05	.79	.71
20K	490-2701-ND	PVC6A203C01B00	490-2724-ND	PVC6D203C01B00	490-2816-ND	PVC6M203C01B00	1.05	.79	.71
25K	490-2707-ND	PVC6A253C01B00	490-2730-ND	PVC6D253C01B00	490-2822-ND	PVC6M253C01B00	1.05	.79	.71
50K	490-2712-ND	PVC6A503C01B00	490-2735-ND	PVC6D503C01B00	490-2827-ND	PVC6M503C01B00	1.05	.79	.71
100K	490-2696-ND	PVC6A104C01B00	490-2719-ND	PVC6D104C01B00	490-2811-ND	PVC6M104C01B00	1.05	.79	.71
200K	490-2702-ND	PVC6A204C01B00	490-2725-ND	PVC6D204C01B00	490-2817-ND	PVC6M204C01B00	1.05	.79	.71
250K	490-2708-ND	PVC6A254C01B00	490-2731-ND	PVC6D254C01B00	490-2823-ND	PVC6M254C01B00	1.05	.79	.71
500K	490-2713-ND	PVC6A504C01B00	490-2736-ND	PVC6D504C01B00	490-2828-ND	PVC6M504C01B00	1.05	.79	.71
1M	490-2697-ND	PVC6A105C01B00	490-2720-ND	PVC6D105C01B00	490-2812-ND	PVC6M105C01B00	1.05	.79	.71
2M	490-2703-ND	PVC6A205C01B00	490-2726-ND	PVC6D205C01B00	490-2818-ND	PVC6M205C01B00	1.05	.79	.71
5M	490-2714-ND	PVC6A505C01B00	490-2737-ND	PVC6D505C01B00	490-2829-ND	PVC6M505C01B00	1.05	.79	.71

	Side Adjust										
	Fig. 4		Fig. 5		Fig. 6		Fig. 7		Price Each		
Ohms	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	1	10	100
10	490-2738-ND	PVC6E100C01B00	490-2761-ND	PVC6G100C01B00	490-2784-ND	PVC6H100C01B00	490-2830-ND	PVC6Q100C01B00	1.05	.79	.71
20	490-2744-ND	PVC6E200C01B00	490-2767-ND	PVC6G200C01B00	490-2790-ND	PVC6H200C01B00	490-2836-ND	PVC6Q200C01B00	1.05	.79	.71
25	490-2750-ND	PVC6E250C01B00	490-2773-ND	PVC6G250C01B00	490-2796-ND	PVC6H250C01B00	490-2842-ND	PVC6Q250C01B00	1.05	.79	.71
50	490-2755-ND	PVC6E500C01B00	490-2778-ND	PVC6G500C01B00	490-2801-ND	PVC6H500C01B00	490-2847-ND	PVC6Q500C01B00	1.05	.79	.71
100	490-2739-ND	PVC6E101C01B00	490-2762-ND	PVC6G101C01B00	490-2785-ND	PVC6H101C01B00	490-2831-ND	PVC6Q101C01B00	1.05	.79	.71
200	490-2745-ND	PVC6E201C01B00	490-2768-ND	PVC6G201C01B00	490-2791-ND	PVC6H201C01B00	490-2837-ND	PVC6Q201C01B00	1.05	.79	.71
250	490-2751-ND	PVC6E251C01B00	490-2774-ND	PVC6G251C01B00	490-2797-ND	PVC6H251C01B00	490-2843-ND	PVC6Q251C01B00	1.05	.79	.71
500	490-2756-ND	PVC6E501C01B00	490-2779-ND	PVC6G501C01B00	490-2802-ND	PVC6H501C01B00	490-2848-ND	PVC6Q501C01B00	1.05	.79	.71
1K	490-2740-ND	PVC6E102C01B00	490-2763-ND	PVC6G102C01B00	490-2786-ND	PVC6H102C01B00	490-2832-ND	PVC6Q102C01B00	1.05	.79	.71
2K	490-2746-ND	PVC6E202C01B00	490-2769-ND	PVC6G202C01B00	490-2792-ND	PVC6H202C01B00	490-2838-ND	PVC6Q202C01B00	1.05	.79	.71
2.5K	490-2752-ND	PVC6E252C01B00	490-2775-ND	PVC6G252C01B00	490-2798-ND	PVC6H252C01B00	490-2844-ND	PVC6Q252C01B00	1.05	.79	.71
5K	490-2757-ND	PVC6E502C01B00	490-2780-ND	PVC6G502C01B00	490-2803-ND	PVC6H502C01B00	490-2849-ND	PVC6Q502C01B00	1.05	.79	.71
10K	490-2741-ND	PVC6E103C01B00	490-2764-ND	PVC6G103C01B00	490-2787-ND	PVC6H103C01B00	490-2833-ND	PVC6Q103C01B00	1.05	.79	.71
20K	490-2747-ND	PVC6E203C01B00	490-2770-ND	PVC6G203C01B00	490-2793-ND	PVC6H203C01B00	490-2839-ND	PVC6Q203C01B00	1.05	.79	.71
25K	490-2753-ND	PVC6E253C01B00	490-2776-ND	PVC6G253C01B00	490-2799-ND	PVC6H253C01B00	490-2845-ND	PVC6Q253C01B00	1.05	.79	.71
50K	490-2758-ND	PVC6E503C01B00	490-2781-ND	PVC6G503C01B00	490-2804-ND	PVC6H503C01B00	490-2850-ND	PVC6Q503C01B00	1.05	.79	.71
100K	490-2742-ND	PVC6E104C01B00	490-2765-ND	PVC6G104C01B00	490-2788-ND	PVC6H104C01B00	490-2834-ND	PVC6Q104C01B00	1.05	.79	.71
200K	490-2748-ND	PVC6E204C01B00	490-2771-ND	PVC6G204C01B00	490-2794-ND	PVC6H204C01B00	490-2840-ND	PVC6Q204C01B00	1.05	.79	.71
250K	490-2754-ND	PVC6E254C01B00	490-2777-ND	PVC6G254C01B00	490-2800-ND	PVC6H254C01B00	490-2846-ND	PVC6Q254C01B00	1.05	.79	.71
500K	490-2759-ND	PVC6E504C01B00	490-2782-ND	PVC6G504C01B00	490-2805-ND	PVC6H504C01B00	490-2851-ND	PVC6Q504C01B00	1.05	.79	.71
1M	490-2743-ND	PVC6E105C01B00	490-2766-ND	PVC6G105C01B00	490-2789-ND	PVC6H105C01B00	490-2835-ND	PVC6Q105C01B00	1.05	.79	.71
2M	490-2749-ND	PVC6E205C01B00	490-2772-ND	PVC6G205C01B00	490-2795-ND	PVC6H205C01B00	490-2841-ND	PVC6Q205C01B00	1.05	.79	.71
5M	490-2760-ND	PVC6E505C01B00	490-2783-ND	PVC6G505C01B00	490-2806-ND	PVC6H505C01B00	490-2852-ND	PVC6Q505C01B00	1.05	.79	.71

Sealed Multi-Turn Trimmer Potentiometers

PV36 Series

Features: • 25-turns, cermet, square, 9.5mm package • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive wiper rotation • ***RoHS Compliant***

Specifications: • Power Rating: 0.5W (70°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 25

Dim. in mm

Fig. 1

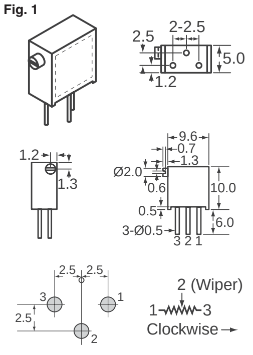

Fig. 2

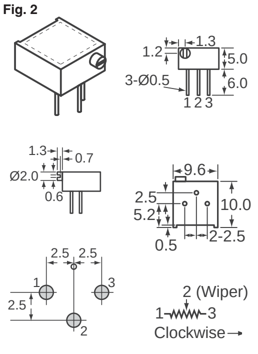

Fig. 3

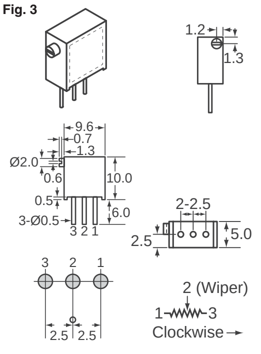

Fig. 4

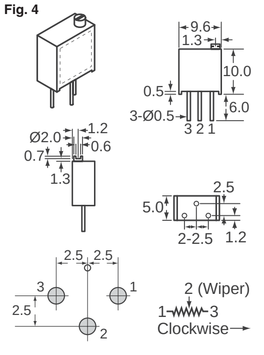

Fig. 5

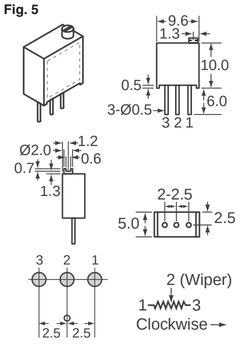

	Side Adjust						Top Adjust						
	Fig. 1		Fig. 2		Fig. 3		Fig. 4		Fig. 5		Price Each		
Ohms	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	1	10	100
10	490-2929-ND	PV36Z100C01B00	490-2853-ND	PV36P100C01B00	490-2891-ND	PV36X100C01B00	490-2910-ND	PV36Y100C01B00	490-2872-ND	PV36W100C01B00	.85	.78	.55
20	490-2935-ND	PV36Z200C01B00	490-2859-ND	PV36P200C01B00	490-2897-ND	PV36X200C01B00	490-2916-ND	PV36Y200C01B00	490-2878-ND	PV36W200C01B00	.85	.78	.55
50	490-2943-ND	PV36Z500C01B00	490-2867-ND	PV36P500C01B00	490-2905-ND	PV36X500C01B00	490-2924-ND	PV36Y500C01B00	490-2886-ND	PV36W500C01B00	.85	.78	.55
100	490-2930-ND	PV36Z101C01B00	490-2854-ND	PV36P101C01B00	490-2892-ND	PV36X101C01B00	490-2911-ND	PV36Y101C01B00	490-2873-ND	PV36W101C01B00	.85	.78	.55
200	490-2936-ND	PV36Z201C01B00	490-2860-ND	PV36P201C01B00	490-2898-ND	PV36X201C01B00	490-2917-ND	PV36Y201C01B00	490-2879-ND	PV36W201C01B00	.85	.78	.55
500	490-2944-ND	PV36Z501C01B00	490-2868-ND	PV36P501C01B00	490-2906-ND	PV36X501C01B00	490-2925-ND	PV36Y501C01B00	490-2887-ND	PV36W501C01B00	.85	.78	.55
1K	490-2931-ND	PV36Z102C01B00	490-2855-ND	PV36P102C01B00	490-2893-ND	PV36X102C01B00	490-2912-ND	PV36Y102C01B00	490-2874-ND	PV36W102C01B00	.85	.78	.55
2K	490-2937-ND	PV36Z202C01B00	490-2861-ND	PV36P202C01B00	490-2899-ND	PV36X202C01B00	490-2918-ND	PV36Y202C01B00	490-2880-ND	PV36W202C01B00	.85	.78	.55
5K	490-2945-ND	PV36Z502C01B00	490-2869-ND	PV36P502C01B00	490-2907-ND	PV36X502C01B00	490-2926-ND	PV36Y502C01B00	490-2888-ND	PV36W502C01B00	.85	.78	.55
10K	490-2932-ND	PV36Z103C01B00	490-2856-ND	PV36P103C01B00	490-2894-ND	PV36X103C01B00	490-2913-ND	PV36Y103C01B00	490-2875-ND	PV36W103C01B00	.85	.78	.55
20K	490-2938-ND	PV36Z203C01B00	490-2862-ND	PV36P203C01B00	490-2900-ND	PV36X203C01B00	490-2919-ND	PV36Y203C01B00	490-2881-ND	PV36W203C01B00	.85	.78	.55
25K	490-2941-ND	PV36Z253C01B00	490-2865-ND	PV36P253C01B00	490-2903-ND	PV36X253C01B00	490-2922-ND	PV36Y253C01B00	490-2884-ND	PV36W253C01B00	.85	.78	.55
50K	490-2946-ND	PV36Z503C01B00	490-2870-ND	PV36P503C01B00	490-2908-ND	PV36X503C01B00	490-2927-ND	PV36Y503C01B00	490-2889-ND	PV36W503C01B00	.85	.78	.55
100K	490-2933-ND	PV36Z104C01B00	490-2857-ND	PV36P104C01B00	490-2895-ND	PV36X104C01B00	490-2914-ND	PV36Y104C01B00	490-2876-ND	PV36W104C01B00	.85	.78	.55
200K	490-2939-ND	PV36Z204C01B00	490-2863-ND	PV36P204C01B00	490-2901-ND	PV36X204C01B00	490-2920-ND	PV36Y204C01B00	490-2882-ND	PV36W204C01B00	.85	.78	.55
250K	490-2942-ND	PV36Z254C01B00	490-2866-ND	PV36P254C01B00	490-2904-ND	PV36X254C01B00	490-2923-ND	PV36Y254C01B00	490-2885-ND	PV36W254C01B00	.85	.78	.55
500K	490-2947-ND	PV36Z504C01B00	490-2871-ND	PV36P504C01B00	490-2909-ND	PV36X504C01B00	490-2928-ND	PV36Y504C01B00	490-2890-ND	PV36W504C01B00	.85	.78	.55
1M	490-2934-ND	PV36Z105C01B00	490-2858-ND	PV36P105C01B00	490-2896-ND	PV36X105C01B00	490-2915-ND	PV36Y105C01B00	490-2877-ND	PV36W105C01B00	.85	.78	.55
2M	490-2940-ND	PV36Z205C01B00	490-2864-ND	PV36P205C01B00	490-2902-ND	PV36X205C01B00	490-2921-ND	PV36Y205C01B00	490-2883-ND	PV36W205C01B00	.85	.78	.55

PV37 Series

Features: • High Resolution, 12-turns cermet • Small size • Compatible with ultrasonic cleaning • Clutch mechanism prevents excessive wiper rotation • ***RoHS Compliant***

Specifications: • Power Rating: 0.25 (85°C) • Soldering Method: Flow/Soldering Iron • Number of Turns: 12

Dim. in mm

Fig. 1

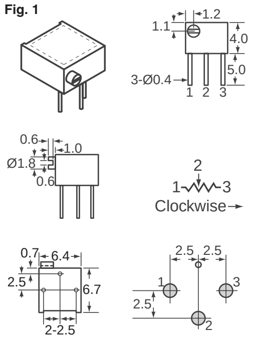

Fig. 2

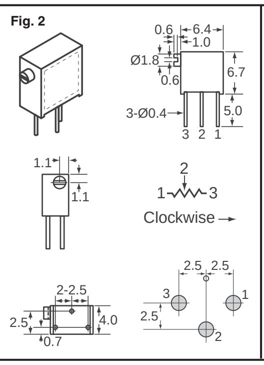

Fig. 3

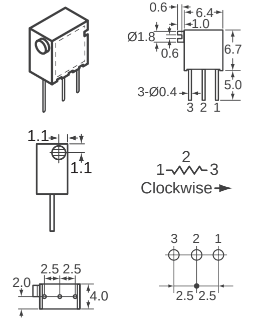

Fig. 4

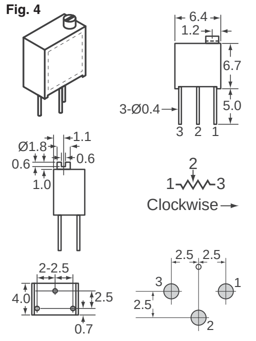

Fig. 5

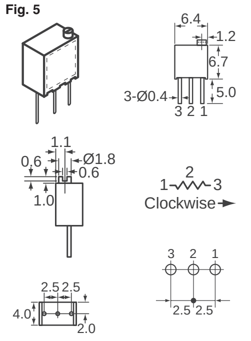

	Side Adjust						Top Adjust						
	Fig. 1		Fig. 2		Fig. 3		Fig. 4		Fig. 5		Price Each		
Ohms	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	Digi-Key Part No.	Murata Part No.	1	10	100
10	490-2948-ND	PV37P100C01B00	490-2986-ND	PV37X100C01B00	490-3024-ND	PV37Z100C01B00	490-2967-ND	PV37W100C01B00	490-3005-ND	PV37Y100C01B00	1.61	1.46	1.03
20	490-2954-ND	PV37P200C01B00	490-2992-ND	PV37X200C01B00	490-3030-ND	PV37Z200C01B00	490-2973-ND	PV37W200C01B00	490-3011-ND	PV37Y200C01B00	1.61	1.46	1.03
50	490-2962-ND	PV37P500C01B00	490-3000-ND	PV37X500C01B00	490-3038-ND	PV37Z500C01B00	490-2981-ND	PV37W500C01B00	490-3019-ND	PV37Y500C01B00	1.61	1.46	1.03
100	490-2949-ND	PV37P101C01B00	490-2987-ND	PV37X101C01B00	490-3025-ND	PV37Z101C01B00	490-2968-ND	PV37W101C01B00	490-3006-ND	PV37Y101C01B00	1.61	1.46	1.03
200	490-2955-ND	PV37P201C01B00	490-2993-ND	PV37X201C01B00	490-3031-ND	PV37Z201C01B00	490-2974-ND	PV37W201C01B00	490-3012-ND	PV37Y201C01B00	1.61	1.46	1.03
500	490-2963-ND	PV37P501C01B00	490-3001-ND	PV37X501C01B00	490-3039-ND	PV37Z501C01B00	490-2982-ND	PV37W501C01B00	490-3020-ND	PV37Y501C01B00	1.61	1.46	1.03
1K	490-2950-ND	PV37P102C01B00	490-2988-ND	PV37X102C01B00	490-3026-ND	PV37Z102C01B00	490-2969-ND	PV37W102C01B00	490-3007-ND	PV37Y102C01B00	1.61	1.46	1.03
2K	490-2956-ND	PV37P202C01B00	490-2994-ND	PV37X202C01B00	490-3032-ND	PV37Z202C01B00	490-2975-ND	PV37W202C01B00	490-3013-ND	PV37Y202C01B00	1.61	1.46	1.03
5K	490-2964-ND	PV37P502C01B00	490-3002-ND	PV37X502C01B00	490-3040-ND	PV37Z502C01B00	490-2983-ND	PV37W502C01B00	490-3021-ND	PV37Y502C01B00	1.61	1.46	1.03
10K	490-2951-ND	PV37P103C01B00	490-2989-ND	PV37X103C01B00	490-3027-ND	PV37Z103C01B00	490-2970-ND	PV37W103C01B00	490-3008-ND	PV37Y103C01B00	1.61	1.46	1.03
20K	490-2957-ND	PV37P203C01B00	490-2995-ND	PV37X203C01B00	490-3033-ND	PV37Z203C01B00	490-2976-ND	PV37W203C01B00	490-3014-ND	PV37Y203C01B00	1.61	1.46	1.03
25K	490-2960-ND	PV37P253C01B00	490-2998-ND	PV37X253C01B00	490-3036-ND	PV37Z253C01B00	490-2979-ND	PV37W253C01B00	490-3017-ND	PV37Y253C01B00	1.61	1.46	1.03
50K	490-2965-ND	PV37P503C01B00	490-3003-ND	PV37X503C01B00	490-3041-ND	PV37Z503C01B00	490-2984-ND	PV37W503C01B00	490-3022-ND	PV37Y503C01B00	1.61	1.46	1.03
100K	490-2952-ND	PV37P104C01B00	490-2990-ND	PV37X104C01B00	490-3028-ND	PV37Z104C01B00	490-2971-ND	PV37W104C01B00	490-3009-ND	PV37Y104C01B00	1.61	1.46	1.03
200K	490-2958-ND	PV37P204C01B00	490-2996-ND	PV37X204C01B00	490-3034-ND	PV37Z204C01B00	490-2977-ND	PV37W204C01B00	490-3015-ND	PV37Y204C01B00	1.61	1.46	1.03
250K	490-2961-ND	PV37P254C01B00	490-2999-ND	PV37X254C01B00	490-3037-ND	PV37Z254C01B00	490-2980-ND	PV37W254C01B00	490-3018-ND	PV37Y254C01B00	1.61	1.46	1.03
500K	490-2966-ND	PV37P504C01B00	490-3004-ND	PV37X504C01B00	490-3042-ND	PV37Z504C01B00	490-2985-ND	PV37W504C01B00	490-3023-ND	PV37Y504C01B00	1.61	1.46	1.03
1M	490-2953-ND	PV37P105C01B00	490-2991-ND	PV37X105C01B00	490-3029-ND	PV37Z105C01B00	490-2972-ND	PV37W105C01B00	490-3010-ND	PV37Y105C01B00	1.61	1.46	1.03
2M	490-2959-ND	PV37P205C01B00	490-2997-ND	PV37X205C01B00	490-3035-ND	PV37Z205C01B00	490-2978-ND	PV37W205C01B00	490-3016-ND	PV37Y205C01B00	1.61	1.46	1.03

muRata
Innovator in Electronics

SMD Open Type Trimmer Potentiometers 2mm PVZ2 Series

Dim. in mm

Features:

- Gold plated termination achieve a high density PCB mounting
- Cross-shaped driver slot allows for in-process automatic adjustment and it provides superior adjustability
- Special resin substrate allow high peak temperature for reflow soldering

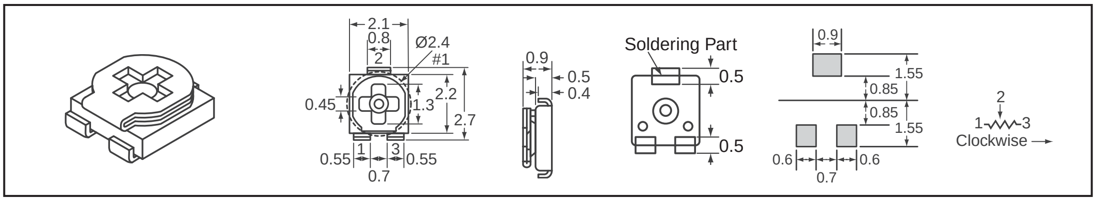

Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Pricing 5	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Murata Part No.
0.1 (50°C)	Reflow	1 (240°±10°)	500 ohm ± 30%	± 500	490-2041-1-ND	.76	1.28	11.18	490-2041-2-ND	75.96/M	PVZ2A501A01R00
			1K ohm ± 30%	± 500	490-2031-1-ND	.76	1.28	11.18	490-2031-2-ND	75.96/M	PVZ2A102A01R00
			2K ohm ± 30%	± 500	490-2035-1-ND	.76	1.28	11.18	490-2035-2-ND	75.96/M	PVZ2A202A01R00
			3K ohm ± 30%	± 500	490-2038-1-ND	.76	1.28	11.18	490-2038-2-ND	75.96/M	PVZ2A302A01R00
			5K ohm ± 30%	± 500	490-2042-1-ND	.76	1.28	11.18	490-2042-2-ND	75.96/M	PVZ2A502A01R00
0.1 (50°C)	Reflow	1 (240°±10°)	10K ohm ± 30%	± 500	490-2032-1-ND	.76	1.28	11.18	490-2032-2-ND	75.96/M	PVZ2A103A01R00
			20K ohm ± 30%	± 500	490-2036-1-ND	.76	1.28	11.18	490-2036-2-ND	75.96/M	PVZ2A203A01R00
			30K ohm ± 30%	± 500	490-2039-1-ND	.76	1.28	11.18	490-2039-2-ND	75.96/M	PVZ2A303A01R00
			50K ohm ± 30%	± 500	490-2043-1-ND	.76	1.28	11.18	490-2043-2-ND	75.96/M	PVZ2A503A01R00
			100K ohm ± 30%	± 500	490-2033-1-ND	.76	1.28	11.18	490-2033-2-ND	75.96/M	PVZ2A104A01R00
0.1 (50°C)	Reflow	1 (240°±10°)	200K ohm ± 30%	± 500	490-2037-1-ND	.76	1.28	11.18	490-2037-2-ND	75.96/M	PVZ2A204A01R00
			300K ohm ± 30%	± 500	490-2040-1-ND	.76	1.28	11.18	490-2040-2-ND	75.96/M	PVZ2A304A01R00
			500K ohm ± 30%	± 500	490-2044-1-ND	.76	1.28	11.18	490-2044-2-ND	75.96/M	PVZ2A504A01R00
			1M ohm ± 30%	± 500	490-2034-1-ND	.76	1.28	11.18	490-2034-2-ND	75.96/M	PVZ2A105A01R00

SMD Open Type Trimmer Potentiometers 3mm PVZ3 Series

Dim. in mm

Features:

- Excellent solderability characteristics are achieved via special plating techniques on each termination
- Specially designed substrate prevents wicking of flux onto the top of the part body
- Enlarged bottom termination enhance soldering strength while reducing the necessary land area required promoting high-density PCB mounting
- Funnel shaped adjustment slot allows for in-process automatic adjustment
- Standard position of driver plate is adjusted at the center
- Products meets Pb-free

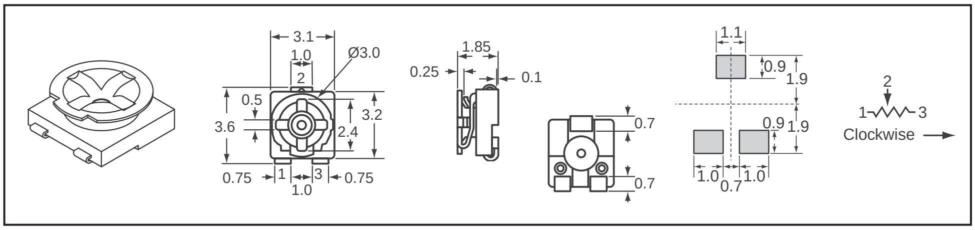

Power Rating (W)	Soldering Method	Number of Turns (Effective Rotation Angle)	Total Resistance Value	TCR (ppm/°C)	Digi-Key Part No.	Cut Tape Pricing 5	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	Murata Part No.
0.1 (50°C)	Reflow	1 (230° ±10°)	200 ohm ±30%	±500	490-2018-1-ND	.55	.94	8.16	490-2018-2-ND	55.42/M	PVZ3A201A01R00
			300 ohm ±30%	±500	490-2023-1-ND	.55	.94	8.16	490-2023-2-ND	55.42/M	PVZ3A301A01R00
			500 ohm ±30%	±500	490-2027-1-ND	.55	.94	8.16	490-2027-2-ND	55.42/M	PVZ3A501A01R00
			1K ohm ±30%	±500	490-2014-1-ND	.55	.94	8.16	490-2014-2-ND	55.42/M	PVZ3A102A01R00
			2K ohm ±30%	±500	490-2019-1-ND	.55	.94	8.16	490-2019-2-ND	55.42/M	PVZ3A202A01R00
0.1 (50°C)	Reflow	1 (230° ±10°)	3K ohm ±30%	±500	490-2024-1-ND	.55	.94	8.16	490-2024-2-ND	55.42/M	PVZ3A302A01R00
			5K ohm ±30%	±500	490-2028-1-ND	.55	.94	8.16	490-2028-2-ND	55.42/M	PVZ3A502A01R00
			10K ohm ±30%	±500	490-2015-1-ND	.55	.94	8.16	490-2015-2-ND	55.42/M	PVZ3A103A01R00
			20K ohm ±30%	±500	490-2020-1-ND	.55	.94	8.16	490-2020-2-ND	55.42/M	PVZ3A203A01R00
			30K ohm ±30%	±500	490-2025-1-ND	.55	.94	8.16	490-2025-2-ND	55.42/M	PVZ3A303A01R00
0.1 (50°C)	Reflow	1 (230° ±10°)	50K ohm ±30%	±500	490-2029-1-ND	.55	.94	8.16	490-2029-2-ND	55.42/M	PVZ3A503A01R00
			100K ohm ±30%	±500	490-2016-1-ND	.55	.94	8.16	490-2016-2-ND	55.42/M	PVZ3A104A01R00
			200K ohm ±30%	±500	490-2021-1-ND	.55	.94	8.16	490-2021-2-ND	55.42/M	PVZ3A204A01R00
			300K ohm ±30%	±500	490-2026-1-ND	.55	.94	8.16	490-2026-2-ND	55.42/M	PVZ3A304A01R00
			500K ohm ±30%	±500	490-2030-1-ND	.55	.94	8.16	490-2030-2-ND	55.42/M	PVZ3A504A01R00
0.1 (50°C)	Reflow	1 (230° ±10°)	1M ohm ±30%	±500	490-2017-1-ND	.55	.94	8.16	490-2017-2-ND	55.42/M	PVZ3A105A01R00
			2M ohm ±30%	±500	490-2022-1-ND	.55	.94	8.16	490-2022-2-ND	55.42/M	PVZ3A205A01R00

Angle Sensing Potentiometer SMD Dust-Proof Type 12mm PVS1 Series

Dim. in mm

Features:

- Dust-proof construction
- Compliant to high peak temperature reflow soldering
- Excellent resistance materials and high reliability wiper achieves 1M cycles
- D formation thru-hole rotor enables to select any kind of gear shape
- Ultra-thin size (2.1mm height)
- Gold plated terminals without lead

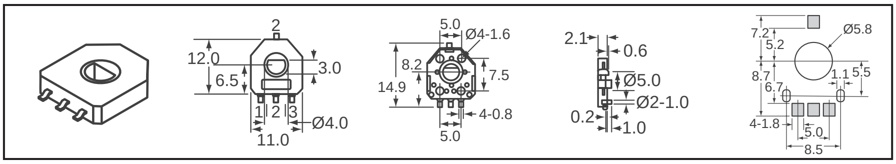

Total Resistance Value	Linearity (%)	Effective Rotational Angle	TCR	Rotational Life	Digi-Key Part No.	Pricing 1	10	100	Murata Part No.
10k ohm ±30%	±2	333.3° (Ref.)	±500 ppm/°C	1M cycles	490-2400-ND	1.18	10.77	100.40	SV01A103AEA01B00

Cermet Potentiometers

Model ST-32

Surface Mount, Single-Turn

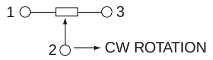

FEATURES: • Top and side adjustment styles • Has a rotor with a cross slot for ease of adjustment • Leaded terminals provide strong as adhesive strength against P.C.B. bending • J-hook, Gull wing and leaded terminal configurations • Compatible with P.C. B. pad outline dimensions for ST-3 series • Sealed/Washable

ELECTRICAL: **Resistance Tolerance:** ±20%. **Power Rating:** 0.125W at 70°C, 0W at 125°C. **Input Voltage Maximum:** 200VDC or power rating, whichever is less. **Wiper Current Maximum:** 100mA or power rating, whichever is less. **Effective Electrical Angle:** 210° (1 turn). **End Resistance:** 1% or 2Ω, whichever is greater. **Contact Resistance Variation:** 1% or 3Ω, whichever is greater. **Operating Temperature Range:** -55°C ~ 125°C. **Insulation Resistance:** 1000MΩ minimum at 500VDC. **Dielectric Strength:** 500VAC, 60s.

MECHANICAL: **Mechanical Angle:** 250° (1 turn). **Operating Torque:** 51 gram force-cm maximum. **Stop Strength:** 204 gram force-cm minimum. **Rotational Life:** 100 cycles (▲ R/R ≤ 2 Ω +3%).

ST-32TA - Top Adjustment, J-Hook

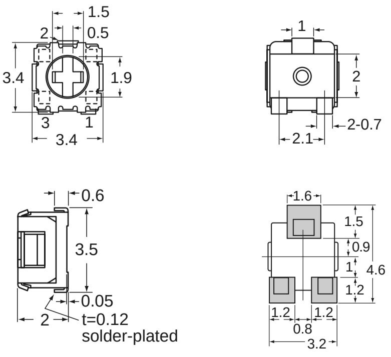

ST-32TB - Top Adjustment, Gull Wing

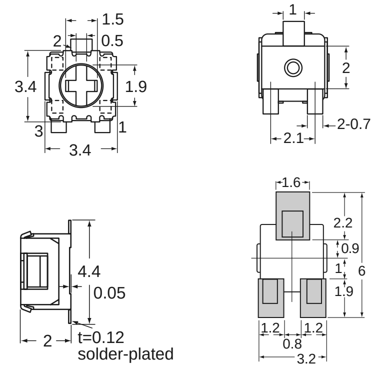

ST-32TG - Side Adjustment, J-Hook

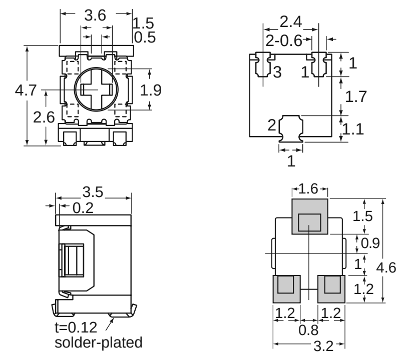

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing* 500
10	ST32TA100CT-ND	ST32TB100CT-ND	2.21	1.60	ST32TA100TR-ND	ST32TB100TR-ND	551.25
20	ST32TA200CT-ND	ST32TB200CT-ND	2.21	1.60	ST32TA200TR-ND	ST32TB200TR-ND	551.25
50	ST32TA500CT-ND	ST32TB500CT-ND	2.07	1.50	—	ST32TB500TR-ND	517.50
100	ST32TA101CT-ND	ST32TB101CT-ND	2.07	1.50	ST32TA101TR-ND	—	517.50
200	ST32TA201CT-ND	ST32TB201CT-ND	2.07	1.50	ST32TA201TR-ND	ST32TB201TR-ND	517.50
300	ST32TA301CT-ND	ST32TB301CT-ND	2.48	1.79	ST32TA301TR-ND	ST32TB301TR-ND	618.75
500	ST32TA501CT-ND	ST32TB501CT-ND	2.07	1.50	ST32TA501TR-ND	ST32TB501TR-ND	517.50
1K	ST32TA102CT-ND	ST32TB102CT-ND	2.07	1.50	—	ST32TB102TR-ND	517.50
2K	ST32TA202CT-ND	ST32TB202CT-ND	2.07	1.50	ST32TA202TR-ND	—	517.50
3K	ST32TA302CT-ND	ST32TB302CT-ND	2.48	1.79	ST32TA302TR-ND	ST32TB302TR-ND	618.75
5K	ST32TA502CT-ND	ST32TB502CT-ND	2.07	1.50	ST32TA502TR-ND	—	517.50
10K	ST32TA103CT-ND	ST32TB103CT-ND	2.07	1.50	ST32TA103TR-ND	ST32TB103TR-ND	517.50
20K	ST32TA203CT-ND	ST32TB203CT-ND	2.07	1.50	—	—	—
30K	ST32TA303CT-ND	ST32TB303CT-ND	2.48	1.79	ST32TA303TR-ND	ST32TB303TR-ND	618.75
50K	ST32TA503CT-ND	ST32TB503CT-ND	2.07	1.50	ST32TA503TR-ND	—	517.50
100K	ST32TA104CT-ND	ST32TB104CT-ND	2.07	1.50	—	ST32TB104TR-ND	517.50
200K	ST32TA204CT-ND	ST32TB204CT-ND	2.07	1.50	ST32TA204TR-ND	ST32TB204TR-ND	517.50
500K	ST32TA504CT-ND	ST32TB504CT-ND	2.07	1.50	ST32TA504TR-ND	ST32TB504TR-ND	517.50
1M	ST32TA105CT-ND	ST32TB105CT-ND	2.07	1.50	—	—	—

Res. (Ω)	Digi-Key Part No.	Cut Tape Price Each 10	100	Digi-Key Part No.	T&R Pricing* 500
10	ST32TG100CT-ND	2.66	1.92	ST32TG100TR-ND	663.75
20	ST32TG200CT-ND	2.66	1.92	ST32TG200TR-ND	663.75
50	ST32TG500CT-ND	2.48	1.79	ST32TG500TR-ND	618.75
200	ST32TG201CT-ND	2.48	1.79	ST32TG201TR-ND	618.75
300	ST32TG301CT-ND	2.70	1.95	ST32TG301TR-ND	675.00
500	ST32TG501CT-ND	2.48	1.79	ST32TG501TR-ND	618.75
1K	ST32TG102CT-ND	2.48	1.79	ST32TG102TR-ND	618.75
2K	ST32TG202CT-ND	2.48	1.79	—	—
3K	ST32TG302CT-ND	2.70	1.95	ST32TG302TR-ND	675.00
5K	ST32TG502CT-ND	2.48	1.79	—	—
20K	ST32TG203CT-ND	2.48	1.79	ST32TG203TR-ND	618.75
30K	ST32TG303CT-ND	2.70	1.95	ST32TG303TR-ND	675.00
50K	ST32TG503CT-ND	2.48	1.79	—	—
100K	ST32TG104CT-ND	2.48	1.79	ST32TG104TR-ND	618.75
200K	ST32TG204CT-ND	2.48	1.79	ST32TG204TR-ND	618.75
500K	ST32TG504CT-ND	2.48	1.79	ST32TG504TR-ND	618.75
1M	ST32TG105CT-ND	2.48	1.79	ST32TG105TR-ND	618.75

*T&R Denotes Tape and Reel Pricing.

Model ST3

Surface Mount, 3mm Squared Single-Turn

ST3A - Top Adjust

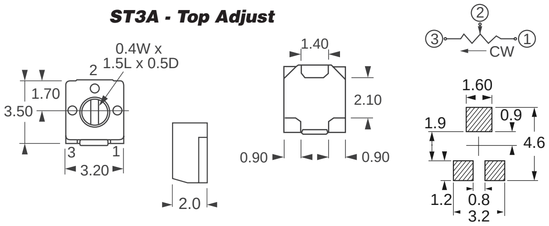

FEATURES:
• Sealed to Allow for Automatic Processing • Precious Metal Alloy Contact • Chip Style Design for Compact Size. ***ELECTRICAL:*** **Resistance Tolerance:** ±20% Standard. **Temperature Coefficient of Resistance:** 10Ω ± 250 ppm/°C, 100Ω to 1MΩ ± 100 ppm/°C. **Power Rating:** 0.125W at 70°C. **Operating Voltage Maximum:** 200VDC or Power Rating, whichever is less. **Wiper Current Maximum:** 100mA or Power Rating, whichever is less. **Nominal Electrical Angle:** 210°. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2Ω, whichever is greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3Ω, whichever is greater. **Operating Temperature Range:** -55°C ~ 125°C. **Minimum Insulation Resistance:** 1000MΩ at 500VDC. **Dielectric Strength:** 500VAC rms, 1 minute, 1 milliamp maximum ***MECHANICAL:*** **Nominal Mechanical Angle:** 240°. **Operating Torque:** 50 gram-cm maximum (.69 Oz. inch). **Minimum Stop Strength:** 200 gram-cm minimum (2.8 Oz. inch). **Rotational Life:** 100 cycles (▲ R/R ≤ 2 Ω +3%).

Res. (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing* 1,000
2K	ST3A202CT-ND	1.56	1.44	1.35	ST3A202TR-ND	843.00

Units Marked with Resistance Mark and 1 Digit Date Code. *T&R Denotes Tape and Reel Pricing.

Model ST4

Surface Mount, 4mm Squared Single-Turn

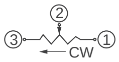

FEATURES: • Sealed to Allow for Automatic Processing • Vertical and Horizontal Adjustment Styles • Precious Metal Alloy Contact • Gull Wing, J Lead and Thru Hole Pin Styles. ***ELECTRICAL:*** **Resistance Tolerance:** ±20% Standard. **Temperature Coefficient of Resistance:** 100Ω to 2MΩ ± 100 ppm, other ±250 ppm. **Power Rating:** 1/4W at 70°C. **Operating Voltage Maximum:** 200VDC or Power Rating, whichever is less. **Wiper Current Maximum:** 100mA or Power Rating, whichever is Less. **Nominal Electrical Angle:** 210°. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2Ω, whichever is Greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3Ω, whichever is greater. **Operating Temperature Range:** -55°C ~ 125°C. **Minimum Insulation Resistance:** 1000MΩ at 500VDC for 2 minutes. **Dielectric Strength:** 500VAC rms, 1 minute, 1 milliamp maximum ***MECHANICAL:*** **Nominal Mechanical Angle:** 240°. **Operating Torque:** 100 gram-cm maximum (1.39 Oz. inch). **Minimum Stop Strength:** 300 gram-cm min (4.17 Oz. inch). **Rotational Life:** 100 cycles (▲ R/R ≤ 2 Ω +3%).

ST4A - J Lead, Top Adjust

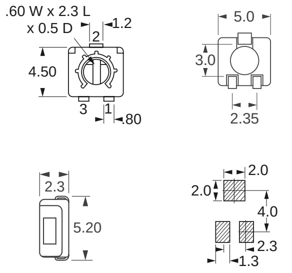

ST4B - Gull Wing, Top Adjust

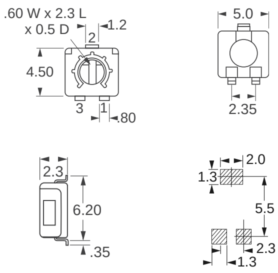

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing* 500
1K	ST4A102CT-ND	—	1.46	1.35	1.26	ST4A102TR-ND	—	486.50
2K	—	ST4B202CT-ND	1.46	1.35	1.26	—	—	—
5K	ST4A502CT-ND	—	1.46	1.35	1.26	ST4A502TR-ND	—	486.50
10K	—	ST4B103CT-ND	1.46	1.35	1.26	—	ST4B103TR-ND	486.50
20K	ST4A203CT-ND	ST4B203CT-ND	1.46	1.35	1.26	ST4A203TR-ND	ST4B203TR-ND	486.50
50K	ST4A503CT-ND	ST4B503CT-ND	1.46	1.35	1.26	ST4A503TR-ND	—	486.50

Units Marked with Resistance Mark and 1 Digit Date Code. *T&R Denotes Tape & Reel Pricing.

(Continued)

Model SM4 *Surface Mount 4mm, 12-Turn, Sealed*

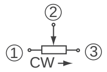

SM4W - J Lead, Top Adjust

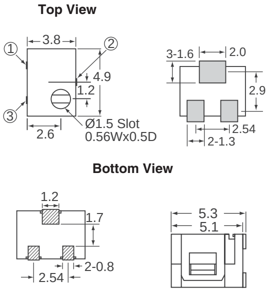

SM4A - Side Adjust

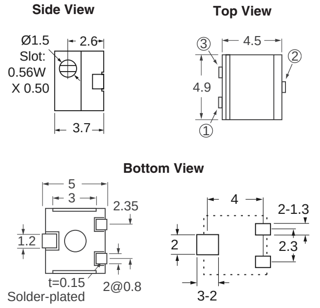

FEATURES: • Sealed to Allow for Automatic Processing • Stable Cermet Element • Precious Metal Contact. ***ELECTRICAL:*** **Resistance Range:** 10Ω – 2MΩ. **Resistance Tolerance:** ±10%. **Maximum Temperature Coefficient:** ± 100 ppm/°C. **Power Rating:** 0.25 W at 85°C, 0 W at 150°C. **Maximum Input Voltage:** 300VDC or Power Rating, whichever is less. **Maximum Wiper Current:** 100mA or Power Rating, whichever is less. **Maximum End Resistance:** 1% or 2Ω, whichever is greater. **Contact Resistance Variation:** 1% or 3Ω, whichever is greater. **Operating Temperature Range:** -65°C ~ 150°C. **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute. ***MECHANICAL:*** **Mechanical Turn:** 12 Turns. **Operating Torque:** 20-300 g.cm. **Minimum Stop Strength:** Clutch Action. **Rotational Life:** 200 cycles, ±3Ω +3%.

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500
100	SM4W101-ND	3.75	3.25	2.94	2.50
200	SM4W201-ND	3.75	3.25	2.94	2.50
1K	SM4W102-ND	3.75	3.25	2.94	2.50
2K	SM4W202-ND	3.75	3.25	2.94	2.50
20K	SM4W203-ND	3.75	3.25	2.94	2.50
100K	SM4W104-ND	3.75	3.25	2.94	2.50
10	SM4A100-ND	3.75	3.25	2.94	2.50
50	SM4A500-ND	3.75	3.25	2.94	2.50

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500
200	SM4A201-ND	3.75	3.25	2.94	2.50
500	SM4A501-ND	3.75	3.25	2.94	2.50
2K	SM4A202-ND	3.75	3.25	2.94	2.50
5K	SM4A502-ND	3.75	3.25	2.94	2.50
20K	SM4A203-ND	3.75	3.25	2.94	2.50
50K	SM4A503-ND	3.75	3.25	2.94	2.50
100K	SM4A104-ND	3.75	3.25	2.94	2.50
1 Meg.	SM4A105-ND	3.75	3.25	2.94	2.50

Units Marked with Resistance Code and 2-Digit Date Code.

Model ST5 *Surface Mount, 6mm Squared Multi-Turn*

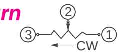

ST5P - Gull Wing, Side Adjust

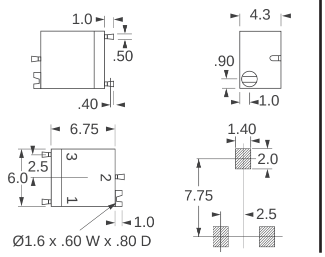

ST5W - Gull Wing, Top Adjust

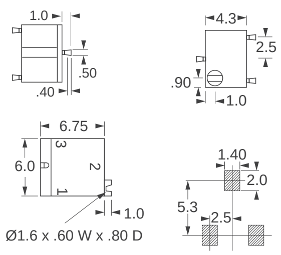

FEATURES: • Sealed to Allow for Automatic Processing • Vertical and Horizontal Mount • Precious Metal Alloy Contact. ***ELECTRICAL:*** **Resistance Tolerance:** ±10% Standard. **Temperature Coefficient of Resistance:** 100Ω to 2MΩ ± 100 ppm/°C, others ±250 ppm/°C. **Power Rating:** 1/4W at 85°C. **Operating Voltage Maximum:** 200VDC or Power Rating, whichever is less. **Wiper Current Maximum:** 100mA or Power Rating, whichever is less. **Nominal Electrical Angle:** 11 Turns. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2Ω, whichever is greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3Ω, whichever is greater. **Operating Temperature Range:** -55°C ~ 125°C. **Minimum Insulation Resistance:** 1000MΩ at 500VDC for 2 minutes. **Dielectric Strength:** 600VAC rms, 1 minute, 1 milliamp maximum ***MECHANICAL:*** **Nominal Mechanical Angle:** 14 Turns. **Operating Torque:** 200 gram-cm maximum (2.78 Oz. inch). **Minimum Stop Strength:** N/A, Wiper Idles. **Rotational Life:** 200 cycles, 10Ω to 200 (▲ R/R ≤ 0.5 Ω +3%), 500Ω to 2MΩ (▲ R/R ≤ 0.5 Ω +2%).

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing* 500
1K	—	ST5W102CT-ND	3.51	3.18	2.70	—	ST5W102TR-ND	1200.50
2K	ST5P202CT-ND	ST5W202CT-ND	3.51	3.18	2.70	—	—	—
20K	ST5P203CT-ND	ST5W203CT-ND	3.51	3.18	2.70	ST5P203TR-ND	ST5W203TR-ND	1200.50
50K	ST5P503CT-ND	ST5W503CT-ND	3.51	3.18	2.70	—	—	—
100K	ST5P104CT-ND	ST5W104CT-ND	3.51	3.18	2.70	ST5P104TR-ND	ST5W104TR-ND	1200.50

Units Marked with Resistance Mark and 1 Digit Date Code. *T&R Denotes Tape and Reel Pricing.

Model ST7 *Low Profile, Surface Mount, 7mm Squared Multi-Turn*

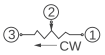

ST7A - J Lead, Top Adjust

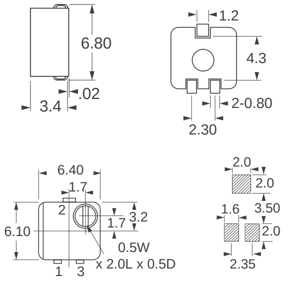

ST7B - Gull Wing, Top Adjust

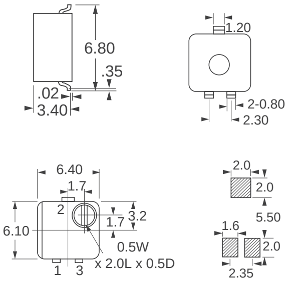

FEATURES: • Sealed to Allow for Auto. Processing • Precious Metal Alloy Contact. ***ELECTRICAL:*** **Resistance Tolerance:** ±20% Standard. **Temperature Coefficient of Resistance:** 100Ω to 1MΩ ± 100 ppm/°C, 50Ω ±250 ppm/°C. **Power Rating:** 1/4W at 70°C. **Operating Volt. Maximum:** 200VDC or Power Rating, Whichever is less. **Wiper Current Maximum:** 100mA or Power Rating, Whichever is Less. **Nominal Electrical Angle:** 2.5 Turns. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 3Ω, Whichever is Greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3Ω, Whichever is Greater. **Operating Temperature Range:** -55°C ~ 125°C. **Minimum Insulation Resistance:** 1000MΩ at 500VDC for 2 minutes. **Dielectric Strength:** 500VAC rms, 1 minute, 1 milliamp maximum ***MECHANICAL:*** **Nominal Mechanical Angle:** 3 Turns. **Operating Torque:** 50 gram-cm maximum (0.70 Oz. inch). **Minimum Stop Strength:** N/A, Wiper Idles. **Rotational Life:** 100 cycles (▲ R/R ≤ 2.0 Ω +3%).

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T&R Pricing* 500
1K	ST7A102CT-ND	ST7B102CT-ND	5.33	4.82	4.10	ST7A102TR-ND	ST7B102TR-ND	1710.00
2K	ST7A202CT-ND	ST7B202CT-ND	5.33	4.82	4.10	ST7A202TR-ND	ST7B202TR-ND	1710.00
5K	ST7A502CT-ND	ST7B502CT-ND	5.33	4.82	4.10	ST7A502TR-ND	ST7B502TR-ND	1710.00
10K	ST7A103CT-ND	ST7B103CT-ND	5.33	4.82	4.10	—	ST7B103TR-ND	—
20K	ST7A203CT-ND	—	5.33	4.82	4.10	ST7A203TR-ND	—	1710.00
50K	ST7A503CT-ND	ST7B503CT-ND	5.33	4.82	4.10	—	ST7B503TR-ND	1710.00
100K	ST7A104CT-ND	ST7B104CT-ND	5.33	4.82	4.10	—	ST7B104TR-ND	1710.00

Units Marked with Resistance Mark and 1 Digit Date Code. *T&R Denotes Tape and Reel Pricing.

Model CT6 *6mm Squared Single Turn*

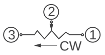

CT6P - Top Adjust

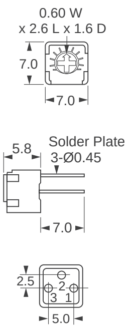

CT6R - Top Adjust

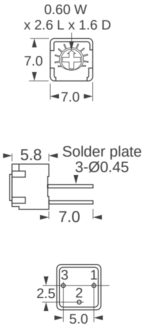

CT6W - Top Adjust

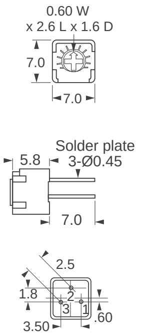

FEATURES: • Sealed to Allow for Automatic Processing • Precious Metal Alloy Contact • Highly Automated Assembly. ***ELECTRICAL:*** **Resistance Tolerance:** ±10% Standard. **Temperature Coefficient of Resistance:** 50Ω to 2MΩ ± 100 ppm/°C, others ±250 ppm/°C. **Power Rating:** 1/2W at 70°C. **Operating Voltage Max.:** 200VDC or Power Rating, Whichever is less. **Wiper Current Maximum:** 100mA or Power Rating, Whichever is Less. **Nominal Electrical Angle:** 220°. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2Ω, Whichever is Greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3Ω, Whichever is Greater. **Operating Temperature Range:** -55°C ~125°C. **Minimum Insulation Resistance:** 1000MΩ at 500VDC for 2 minutes. **Dielectric Strength:** 900VAC rms, 1 minute, 1 milliamp maximum ***MECHANICAL:*** **Nominal Mechanical Angle:** 260°. **Operating Torque:** 20-200 gram-cm maximum (0.27-2.78 Oz. in.). **Minimum Stop Strength:** 500 gram-cm minimum (6.94 Oz.-in.). **Rotational Life:** 200 cycles (▲ R/R ≤ 2 Ω +3%) **Solderability:** Mil-Std-202 Method 208. **Minimum Terminal Strength:** 1 Kg.

CT6X - Side Adjust

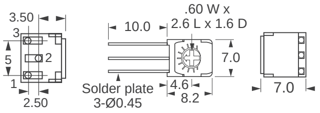

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1K	CT6P102-ND	CT6R102-ND	CT6W102-ND	—	.84	.73	.66	.56	.49
2K	—	—	CT6W202-ND	CT6X202-ND	.99	.85	.78	.66	.58
5K	CT6P502-ND	CT6R502-ND	CT6W502-ND	CT6X502-ND	.84	.73	.66	.56	.49
10K	CT6P103-ND	CT6R103-ND	CT6W103-ND	CT6X103-ND	.84	.73	.66	.56	.49
20K	CT6P203-ND	CT6R203-ND	CT6W203-ND	CT6X203-ND	.84	.73	.66	.56	.49
50K	—	CT6R503-ND	CT6W503-ND	—	.99	.85	.78	.66	.58
100K	—	—	CT6W104-ND	CT6X104-ND	.99	.85	.78	.66	.58

Units Marked with Resistance Mark and 1 Digit Date Code.

(Continued)

Model CT94 *9mm Squared Multi-Turn*

CT94W - Top Adjust

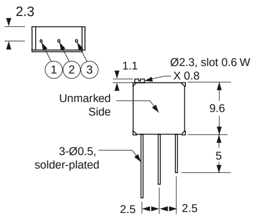

CT94X - Side Adjust

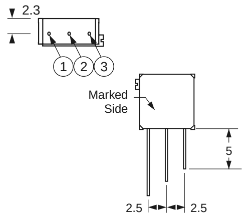

CT94P - Side Adjust

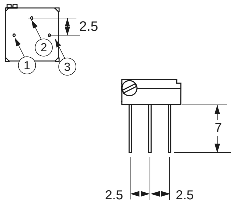

CT94Y - Top Adjust

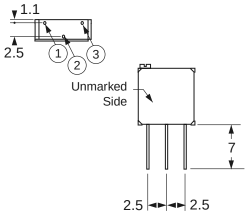

CT94Z- Side Adjust

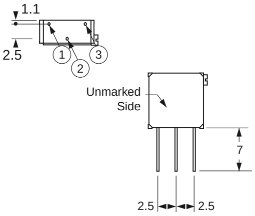

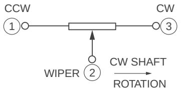

ELECTRICAL: **Resistance Tol.:** ±10%. **Temperature Coefficient of Resistance:** 50Ω to 2MΩ ± 100 ppm/°C, others ±250 ppm/°C. **Power Rating:** 1/2W at 70°C, 0W at 125°C. **Operating Voltage Maximum:** 300VDC or Power Rating, Whichever is less. **Wiper Current Maximum:** 100mA or Power Rating, Whichever is Less. **End Resistance Maximum:** 1% or 2Ω, Whichever is Greater. **Contact Resistance Variation:** 1% or 3Ω, Whichever is Greater. **Operating Temperature Range:** -55°C ~ 125°C. **Minimum Insulation Resistance:** 1000MΩ at 500VDC. **Dielectric Strength:** 900VAC rms, 1 minute **Number of Mechanical Turns:** 18 turns. ***MECHANICAL:*** **Operating Torque:** 357 gram-cm maximum **Mechanical Stop:** Clutch Action. **Minimum Terminal Strength:** 1.02Kg. **Rotational Life:** 200 cycles (▲ R/R ± 2 Ω +3%)

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500
10	—	CT94X100-ND	1.43	1.33	1.20	1.02
20	CT94W200-ND	CT94X200-ND	1.68	1.56	1.41	1.20
50	CT94W500-ND	CT94X500-ND	1.68	1.56	1.41	1.20
100	CT94W101-ND	CT94X101-ND	1.68	1.56	1.41	1.20
200	CT94W201-ND	CT94X201-ND	1.68	1.56	1.41	1.20
500	—	CT94X501-ND	1.68	1.56	1.41	1.20
2K	CT94W202-ND	CT94X202-ND	1.68	1.56	1.41	1.20
20K	—	CT94X203-ND	1.68	1.56	1.41	1.20
50K	CT94W503-ND	—	1.68	1.56	1.41	1.20
100K	CT94W104-ND	CT94X104-ND	1.68	1.56	1.41	1.20
200K	CT94W204-ND	CT94X204-ND	1.68	1.56	1.41	1.20
1 Meg	CT94W105-ND	CT94X105-ND	1.68	1.56	1.41	1.20
2 Meg	CT94W205-ND	CT94X205-ND	1.68	1.56	1.41	1.20

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500
10	CT94P100-ND	CT94Y100-ND	CT94Z100-ND	1.68	1.56	1.41	1.20
20	CT94P200-ND	CT94Y200-ND	CT94Z200-ND	1.68	1.56	1.41	1.20
50	CT94P500-ND	CT94Y500-ND	CT94Z500-ND	1.68	1.56	1.41	1.20
100	CT94P101-ND	CT94Y101-ND	CT94Z101-ND	1.68	1.56	1.41	1.20
200	CT94P201-ND	—	CT94Z201-ND	1.68	1.56	1.41	1.20
500	CT94P501-ND	CT94Y501-ND	CT94Z501-ND	1.68	1.56	1.41	1.20
1K	CT94P102-ND	CT94Y102-ND	CT94Z102-ND	1.68	1.56	1.41	1.20
2K	CT94P202-ND	CT94Y202-ND	CT94Z202-ND	1.68	1.56	1.41	1.20
5K	CT94P502-ND	CT94Y502-ND	CT94Z502-ND	1.68	1.56	1.41	1.20
20K	CT94P203-ND	CT94Y203-ND	CT94Z203-ND	1.68	1.56	1.41	1.20
50K	—	CT94Y503-ND	—	1.85	1.72	1.56	1.32
100K	CT94P104-ND	CT94Y104-ND	—	1.68	1.56	1.41	1.20
200K	CT94P204-ND	CT94Y204-ND	CT94Z204-ND	1.68	1.56	1.41	1.20
500K	CT94P504-ND	CT94Y504-ND	CT94Z504-ND	1.68	1.56	1.41	1.20
1 Meg	CT94P105-ND	CT94Y105-ND	CT94Z105-ND	1.68	1.56	1.41	1.20
2 Meg	CT94P205-ND	—	CT94Z205-ND	1.68	1.56	1.41	1.20

Units Marked with Resistance Code and 1 Digit Date Code.

Model CT9 *9mm Squared Multi-Turn*

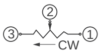

CT9P — Side Adjust

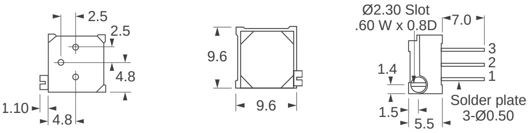

CT9W — Top Adjust

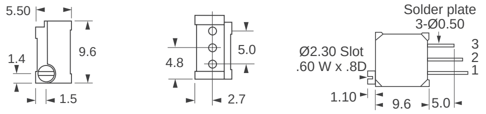

CT9X — Side Adjust

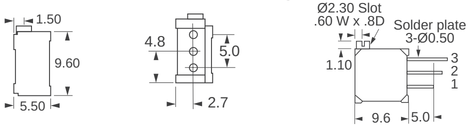

FEATURES:

- Sealed to Withstand Board Washing
- Precious Metal Contact
- Highly Automated Assembly.

ELECTRICAL:

Resistance Tolerance: ±10% Standard. **Temperature Coefficient of Resistance:** 50Ω to 2MΩ ± 100 ppm/°C, others ±250 ppm/°C. **Power Rating:** 1/2W at 70°C. **Operating Voltage Maximum:** 300VDC or Power Rating, Whichever is less. **Wiper Current Maximum:** 100mA or Power Rating, Whichever is Less. **Nominal Electrical Angle:** 16 Turns. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2Ω, Whichever is Greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3Ω, Whichever is Greater. **Operating Temperature Range:** -55°C ~ 125°C. **Minimum Insulation Resistance:** 1000 Meg. at 500VDC for 2 minutes. **Dielectric Strength:** 900VAC rms, 1 minute, 1 milliamp maximum

MECHANICAL:

Nominal Mechanical Angle: 18 Turns. **Operating Torque:** 360 gram-cm maximum (5 Oz.-in.). **Minimum Stop Strength:** N/A, Wiper Idles. **Rotational Life:** 200 cycles, 10 Ω - 200 Ω, ▲ R/R ≤ ± (0.5 Ω + 3%), 500 Ω - 5M Ω ▲ R/R ≤ ± (0.5 Ω + 2%). **Solderability:** Mil-Std-202 Method 208. **Minimum Terminal Strength:** 1 Kg.

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500	1,000
1K	—	—	CT9X102-ND	1.65	1.56	1.32	1.23	1.07
2K	CT9P202-ND	CT9W202-ND	CT9X202-ND	1.65	1.56	1.32	1.23	1.07
10K	CT9P103-ND	CT9W103-ND	CT9X103-ND	1.65	1.56	1.32	1.23	1.07
20K	CT9P203-ND	CT9W203-ND	—	1.65	1.56	1.32	1.23	1.07
50K	CT9P503-ND	CT9W503-ND	CT9X503-ND	1.65	1.56	1.32	1.23	1.07
100K	CT9P104-ND	CT9W104-ND	CT9X104-ND	1.65	1.56	1.32	1.23	1.07

Units Marked with Resistance Mark and 1 Digit Date Code.

Model CT20 *20mm Rectangular Multi-Turn*

CT20P — Side Adjust

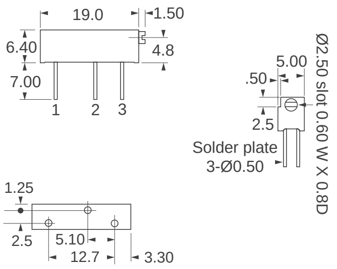

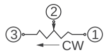

FEATURES:

- Sealed to Allow for Automatic Processing
- Precious Metal Alloy Contact
- Highly Automated Assembly.

ELECTRICAL:

Resistance Tolerance: ±10% Standard. **Temperature Coefficient of Resistance:** 50Ω to 2MΩ ± 100 ppm/°C, others ± 250 ppm/°C. **Power Rating:** 3/4W at 70°C. **Operating Voltage Maximum:** 300VDC or Power Rating, Whichever is less. **Wiper Current Maximum:** 100mA or Power Rating, Whichever is Less. **Nominal Electrical Angle:** 12 Turns. **Electrical Continuity:** Continuous Over Full Mechanical Range. **End Resistance:** 1% or 2Ω, Whichever is Greater. **Resolution:** Essentially Infinite. **Contact Resistance Variation:** 1% or 3Ω, Whichever is Greater. **Operating Temperature Range:** -55°C ~ 125°C. **Minimum Insulation Resistance:** 1000MΩ at 500VDC for 2 minutes **Dielectric Strength:** 600VAC rms, 1 minute, 1 milliamp maximum

MECHANICAL:

Nominal Mechanical Angle: 15 Turns. **Operating Torque:** 360 gram-cm maximum (5 Oz.-in.). **Minimum Stop Strength:** N/A, Wiper Idles. **Rotational Life:** 200 cycles, 10Ω-200Ω ▲ R/R ≤ ± (0.5 Ω + 3%), 500 Ω - 5M Ω ▲ R/R ≤ ± (0.5 Ω + 2%) **Solderability:** Mil-Std-202 Method 208.

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
5K	CT20P502-ND	1.65	1.54	1.39	1.18	1.07
100K	CT20P104-ND	1.65	1.54	1.39	1.18	1.07

Units Marked with Resistance Mark and 1 Digit Date Code.

COPAL ELECTRONICS

Cermet Potentiometers

Model ST2

Surface Mount, 2mm Squared Single-Turn

ST2A - J Lead, Top Adjustment

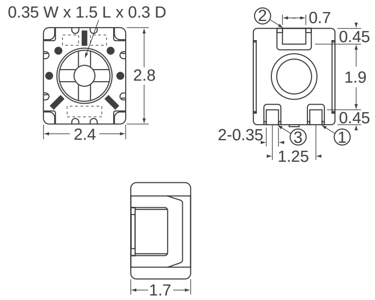

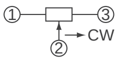

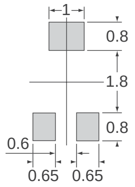

FEATURES: • Lead-free soldering, Cadmium-free • Compact and low-profile • Washable ***ELECTRICAL:*** **Resistance Tolerance:** ±20% **Temperature Coefficient:** ±150 ppm/°C **Power Ratings:** 0.1W at 70°C; 0W at 125°C **Input Voltage Maximum:** 50VDC or power rating, whichever is less **Wiper Current Maximum:** Power Ratings (I = √P/R A) **Effective Electrical Angle:** 240° (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 2% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 500VAC, 1 minute ***MECHANICAL:*** **Mechanical Angle:** 270° (1 turn) **Maximum Operating Torque:** 5mN.m (51 gf.cm) **Minimum Stop Strength:** 8mN.m (78.4 gf.cm) **Rotational Life:** 50 cycles (▲ R/R ≤ (2 Ω +5%) **Solderability:** 245 ±3°C, 2~3 seconds

Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
100	ST2TA101CT-ND	3.96	3.68	3.33	ST2TA101TR-ND	1415.00
200	ST2TA201CT-ND	3.96	3.68	3.33	ST2TA201TR-ND	1415.00
500	ST2TA501CT-ND	3.96	3.68	3.33	ST2TA501TR-ND	1415.00
1K	ST2TA102CT-ND	3.96	3.68	3.33	ST2TA102TR-ND	1415.00
2K	ST2TA202CT-ND	3.96	3.68	3.33	ST2TA202TR-ND	1415.00
5K	ST2TA502CT-ND	3.96	3.68	3.33	ST2TA502TR-ND	1415.00
10K	ST2TA103CT-ND	3.96	3.68	3.33	ST2TA103TR-ND	1415.00
20K	ST2TA203CT-ND	3.96	3.68	3.33	ST2TA203TR-ND	1415.00
50K	ST2TA503CT-ND	3.96	3.68	3.33	ST2TA503TR-ND	1415.00
100K	ST2TA104CT-ND	3.96	3.68	3.33	ST2TA104TR-ND	1415.00
200K	ST2TA204CT-ND	3.96	3.68	3.33	ST2TA204TR-ND	1415.00
500K	ST2TA504CT-ND	3.96	3.68	3.33	ST2TA504TR-ND	1415.00
1 Meg	ST2TA105CT-ND	3.96	3.68	3.33	ST2TA105TR-ND	1415.00

Units Marked with Resistance Code and 2-Digit Date Code.

Model SM3

Surface Mount, 3mm Squared Multi-Turn

SM3TW - J Lead, Top Adjustment

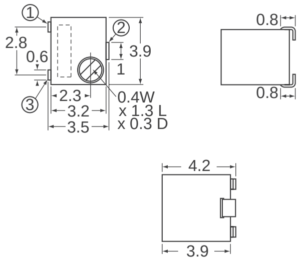

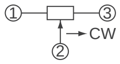

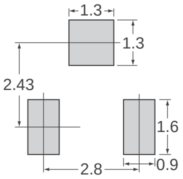

FEATURES: • Lead-free soldering, Cadmium-free • Fine adjustment • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable) ***ELECTRICAL:*** **Resistance Tolerance:** ±20% **Maximum Temperature Coefficient:** ±100 ppm/°C **Power Ratings:** 0.125W at 70°C; 0W at 150°C **Input Voltage Maximum:** 200VDC or power rating, whichever is less **Wiper Current Maximum:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 11 turns **End Resistance:** 1% or 3Ω, whichever is greater **Contact Resistance Variation:** 3% or 3Ω, whichever is greater **Operating Temperature Range:** -65°C ~ 150°C **Minimum Insulation Resistance:** 100MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute ***MECHANICAL:*** **Maximum Operating Torque:** 5mN.m (51gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles (▲ R/R ≤ ± (2Ω +3%) **Minimum Thrust to Shaft:** 5N (0.51kgf) **Solderability:** 245 ±3°C, 2~3 seconds

Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
100	SM-3TW101CT-ND	2.90	2.70	2.44	SM-3TW101TR-ND	1037.00
500	SM-3TW501CT-ND	2.90	2.70	2.44	SM-3TW501TR-ND	1037.00
1K	SM-3TW102CT-ND	2.90	2.70	2.44	SM-3TW102TR-ND	1037.00
2K	SM-3TW202CT-ND	2.90	2.70	2.44	SM-3TW202TR-ND	1037.00
5K	SM-3TW502CT-ND	2.90	2.70	2.44	SM-3TW502TR-ND	1037.00
10K	SM-3TW103CT-ND	2.90	2.70	2.44	SM-3TW103TR-ND	1037.00
20K	SM-3TW203CT-ND	2.90	2.70	2.44	SM-3TW203TR-ND	1037.00
50K	SM-3TW503CT-ND	2.90	2.70	2.44	SM-3TW503TR-ND	1037.00
100K	SM-3TW104CT-ND	2.90	2.70	2.44	SM-3TW104TR-ND	1037.00

Units Marked with Resistance Code and 2-Digit Date Code.

Model SM4

Surface Mount 4mm,12-Turn, Sealed

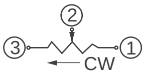

FEATURES: • Lead-free soldering, Cadmium-free • Fine adjustment • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable) ***ELECTRICAL:*** **Resistance Tolerance:** ±10% **Maximum Temperature Coefficient:** ±100 ppm/°C **Power Ratings:** 0.25W at 85°C, 0W at 150°C **Maximum Input Voltage:** 300VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 10 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -65°C ~ 150°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute ***MECHANICAL:*** **Mechanical Turn:** 12 turns **Maximum Operating Torque:** 20mN.m (204gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, (▲ R/R ≤ ± (3Ω +3%)

SM4ETW - J Lead, Top Adjustment

Top View

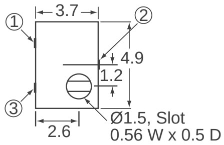

Pad Layout

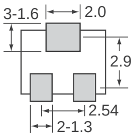

Bottom View

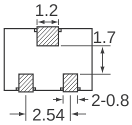

Side View

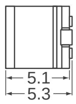

Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 250
100	SM4ETW101CT-ND	2.96	2.76	2.49	SM4ETW101TR-ND	529.25
200	SM4ETW201CT-ND	2.96	2.76	2.49	SM4ETW201TR-ND	529.25
500	SM4ETW501CT-ND	2.96	2.76	2.49	SM4ETW501TR-ND	529.25
1K	SM4ETW102CT-ND	2.96	2.76	2.49	SM4ETW102TR-ND	529.25
2K	SM4ETW202CT-ND	2.96	2.76	2.49	SM4ETW202TR-ND	529.25
5K	SM4ETW502CT-ND	2.96	2.76	2.49	SM4ETW502TR-ND	529.25
10K	SM4ETW103CT-ND	2.96	2.76	2.49	SM4ETW103TR-ND	529.25
20K	SM4ETW203CT-ND	2.96	2.76	2.49	SM4ETW203TR-ND	529.25
50K	SM4ETW503CT-ND	2.96	2.76	2.49	SM4ETW503TR-ND	529.25
100K	SM4ETW104CT-ND	2.96	2.76	2.49	SM4ETW104TR-ND	529.25
200K	SM4ETW204CT-ND	2.96	2.76	2.49	SM4ETW204TR-ND	529.25
500K	SM4ETW504CT-ND	2.96	2.76	2.49	SM4ETW504TR-ND	529.25
1 Meg	SM4ETW105CT-ND	2.96	2.76	2.49	SM4ETW105TR-ND	529.25

Units Marked with Resistance Code and 2-Digit Date Code.

SM4ETA - J Lead, Side Adjustment

Side View

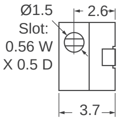

Top View

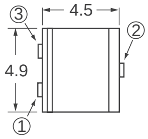

Bottom View

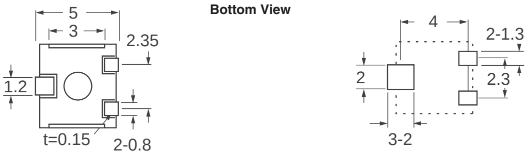

Resistance (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
100	SM4ETA101CT-ND	2.96	2.76	2.49	SM4ETA101TR-ND	1058.50
200	SM4ETA201CT-ND	2.96	2.76	2.49	SM4ETA201TR-ND	1058.50
500	SM4ETA501CT-ND	2.96	2.76	2.49	SM4ETA501TR-ND	1058.50
1K	SM4ETA102CT-ND	2.96	2.76	2.49	SM4ETA102TR-ND	1058.50
2K	SM4ETA202CT-ND	2.96	2.76	2.49	SM4ETA202TR-ND	1058.50
5K	SM4ETA502CT-ND	2.96	2.76	2.49	SM4ETA502TR-ND	1058.50
10K	SM4ETA103CT-ND	2.96	2.76	2.49	SM4ETA103TR-ND	1058.50
20K	SM4ETA203CT-ND	2.96	2.76	2.49	SM4ETA203TR-ND	1058.50
50K	SM4ETA503CT-ND	2.96	2.76	2.49	SM4ETA503TR-ND	1058.50
100K	SM4ETA104CT-ND	2.96	2.76	2.49	SM4ETA104TR-ND	1058.50
200K	SM4ETA204CT-ND	2.96	2.76	2.49	SM4ETA204TR-ND	1058.50
500K	SM4ETA504CT-ND	2.96	2.76	2.49	SM4ETA504TR-ND	1058.50
1 Meg	SM4ETA105CT-ND	2.96	2.76	2.49	SM4ETA105TR-ND	1058.50

(Continued)

Model ST4

Surface Mount, 4mm Squared Single-Turn

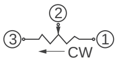

FEATURES: • Lead-free soldering, Cadmium-free • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable) • Stopper structure prevents terminal pin from being open • Cross slot rotor suitable for automatic adjustment ***ELECTRICAL:*** **Resistance Tolerance:** ±20% **Maximum Temperature Coefficient:** 100Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.25W at 70°C, 0W at 125°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Angle:** 210°C (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 500VAC, 1 minute ***MECHANICAL:*** **Mechanical Angle:** 240° (1 turn) **Maximum Operating Torque:** 10mN.m (102gf.cm) **Minimum Stop Strength:** 30mN.m (306gf.cm) **Rotational Life:** 100 cycles, (▲ R/R ≤ ± (2Ω +3%)

ST4ETA - J Lead, Top Adjustment

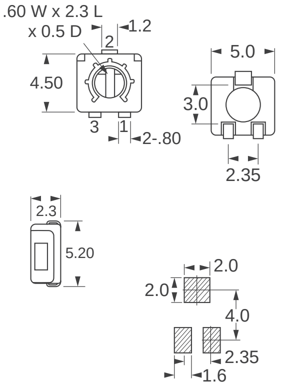

ST4ETB - Gull Wing, Top Adjustment

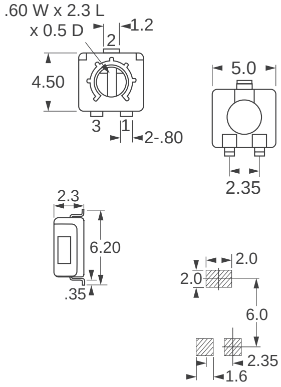

Res.	Digi-Key	Digi-Key	Cut Tape Price Each			Digi-Key	Digi-Key	T&R Pricing
(Ω)	Part No.	Part No.	1	10	100	Part No.	Part No.	500
10	ST4ETA100CT-ND	ST4ETB100CT-ND	1.19	1.11	1.01	ST4ETA100TR-ND	ST4ETB100TR-ND	426.50
50	ST4ETA500CT-ND	ST4ETB500CT-ND	1.19	1.11	1.01	ST4ETA500TR-ND	ST4ETB500TR-ND	426.50
100	ST4ETA101CT-ND	ST4ETB101CT-ND	1.19	1.11	1.01	ST4ETA101TR-ND	ST4ETB101TR-ND	426.50
200	ST4ETA201CT-ND	ST4ETB201CT-ND	1.19	1.11	1.01	ST4ETA201TR-ND	ST4ETB201TR-ND	426.50
500	ST4ETA501CT-ND	ST4ETB501CT-ND	1.19	1.11	1.01	ST4ETA501TR-ND	ST4ETB501TR-ND	426.50
1K	ST4ETA102CT-ND	ST4ETB102CT-ND	1.19	1.11	1.01	ST4ETA102TR-ND	ST4ETB102TR-ND	426.50
2K	ST4ETA202CT-ND	ST4ETB202CT-ND	1.19	1.11	1.01	ST4ETA202TR-ND	ST4ETB202TR-ND	426.50
5K	ST4ETA502CT-ND	ST4ETB502CT-ND	1.19	1.11	1.01	ST4ETA502TR-ND	ST4ETB502TR-ND	426.50
10K	ST4ETA103CT-ND	ST4ETB103CT-ND	1.19	1.11	1.01	ST4ETA103TR-ND	ST4ETB103TR-ND	426.50
20K	ST4ETA203CT-ND	ST4ETB203CT-ND	1.19	1.11	1.01	ST4ETA203TR-ND	ST4ETB203TR-ND	426.50
50K	ST4ETA503CT-ND	ST4ETB503CT-ND	1.19	1.11	1.01	ST4ETA503TR-ND	ST4ETB503TR-ND	426.50
100K	ST4ETA104CT-ND	ST4ETB104CT-ND	1.19	1.11	1.01	ST4ETA104TR-ND	ST4ETB104TR-ND	426.50
200K	ST4ETA204CT-ND	ST4ETB204CT-ND	1.19	1.11	1.01	ST4ETA204TR-ND	ST4ETB204TR-ND	426.50
500K	ST4ETA504CT-ND	ST4ETB504CT-ND	1.19	1.11	1.01	ST4ETA504TR-ND	ST4ETB504TR-ND	426.50
1 Meg	ST4ETA105CT-ND	ST4ETB105CT-ND	1.19	1.11	1.01	ST4ETA105TR-ND	ST4ETB105TR-ND	426.50
2 Meg	ST4ETA205CT-ND	ST4ETB205CT-ND	1.19	1.11	1.01	ST4ETA205TR-ND	ST4ETB205TR-ND	426.50

Units Marked with Resistance Mark and 2 Digit Date Code.

Model ST5

Surface Mount, 6mm Squared Multi-Turn

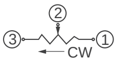

FEATURES: • Lead-free soldering, Cadmium-free • Precise Adjustment • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable) ***ELECTRICAL:*** Resistance Tolerance: ±10%; Maximum Temperature Coefficient: 100Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C; Power Ratings: 0.25W at 85°C, 0W at 120°C; Maximum Input Voltage: 200VDC or power rating, whichever is less; Maximum Wiper Current: 100mA or power rating, whichever is less; Effective Electrical Turn: 11 turns; End Resistance: 1% or 2Ω, whichever is greater; Contact Resistance Variation: 1% or 3Ω, whichever is greater; Operating Temperature Range: -55°C ~ 120°C; Minimum Insulation Resistance: 1000MΩ at 500VDC; Dielectric Strength: 600VAC, 1 minute ***MECHANICAL:*** Mechanical Turn: 14 turns; Maximum Operating Torque: 20mN.m (204gf.cm); Mechanical Stop: Clutch action Rotational Life: 200 cycles, 10Ω ~ 200Ω (▲ R/R ≤ ± (0.5Ω +3%), 500Ω ~ 2MΩ (▲ R/R ≤ ± (0.5Ω +2%)

ST5ETP - Gull Wing, Side Adjustment

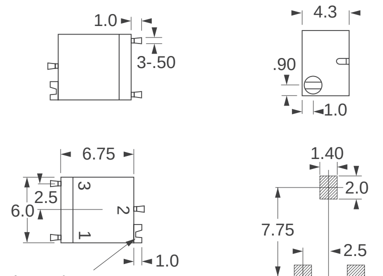

Ø1.6, Slot .60 W x .80 D

ST5ETW - Gull Wing, Top Adjustment

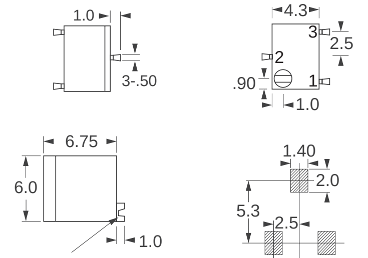

Ø1.6, Slot .60 W x .80 D

ST5ETX - Gull Wing, Side Adjustment

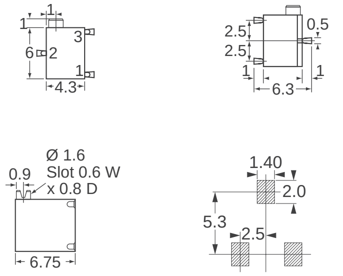

Resistance	Digi-Key	Digi-Key	Digi-Key	Cut Tape Price Each			Digi-Key	Digi-Key	Digi-Key	T&R Pricing
(Ω)	Part No.	Part No.	Part No.	1	10	100	Part No.	Part No.	Part No.	500
100	ST5ETP101CT-ND	ST5ETW101CT-ND	ST5ETX101CT-ND	3.24	3.01	2.72	ST5ETP101TR-ND	ST5ETW101TR-ND	ST5ETX101TR-ND	1155.50
500	ST5ETP501CT-ND	ST5ETW501CT-ND	ST5ETX501CT-ND	3.24	3.01	2.72	ST5ETP501TR-ND	ST5ETW501TR-ND	ST5ETX501TR-ND	1155.50
1K	ST5ETP102CT-ND	ST5ETW102CT-ND	ST5ETX102CT-ND	3.24	3.01	2.72	ST5ETP102TR-ND	ST5ETW102TR-ND	ST5ETX102TR-ND	1155.50
2K	ST5ETP202CT-ND	ST5ETW202CT-ND	ST5ETX202CT-ND	3.24	3.01	2.72	ST5ETP202TR-ND	ST5ETW202TR-ND	ST5ETX202TR-ND	1155.50
5K	ST5ETP502CT-ND	ST5ETW502CT-ND	ST5ETX502CT-ND	3.24	3.01	2.72	ST5ETP502TR-ND	ST5ETW502TR-ND	ST5ETX502TR-ND	1155.50
10K	ST5ETP103CT-ND	ST5ETW103CT-ND	ST5ETX103CT-ND	3.24	3.01	2.72	ST5ETP103TR-ND	ST5ETW103TR-ND	ST5ETX103TR-ND	1155.50
20K	ST5ETP203CT-ND	ST5ETW203CT-ND	ST5ETX203CT-ND	3.24	3.01	2.72	ST5ETP203TR-ND	ST5ETW203TR-ND	ST5ETX203TR-ND	1155.50
50K	ST5ETP503CT-ND	ST5ETW503CT-ND	ST5ETX503CT-ND	3.24	3.01	2.72	ST5ETP503TR-ND	ST5ETW503TR-ND	ST5ETX503TR-ND	1155.50
100K	ST5ETP104CT-ND	ST5ETW104CT-ND	ST5ETX104CT-ND	3.24	3.01	2.72	ST5ETP104TR-ND	ST5ETW104TR-ND	ST5ETX104TR-ND	1155.50

Units Marked with Resistance Mark and 2 Digit Date Code.

Model ST7

Surface Mount, 7mm Squared Multi-Turn

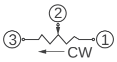

FEATURES: • Lead-free soldering, Cadmium-free • Fine adjustment • Automatic mounting • Flow/reflow soldering • Sealed construction (Washable)

ELECTRICAL: **Resistance Tolerance:** ±20% **Maximum Temperature Coefficient:** 100Ω ~ 1MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.25W at 70°C, 0W at 125°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 2.5 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute

MECHANICAL: **Mechanical Turn:** 3 turns **Maximum Operating Torque:** 5mN.m (51gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 100 cycles, (▲ R/R ≤ ± (2Ω +3%)

ST7ETA - J Lead, Top Adjustment

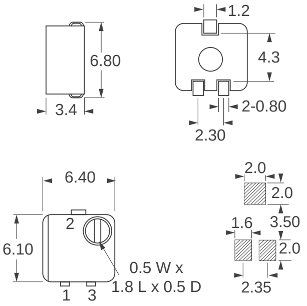

ST7ETB - Gull Wing, Top Adjustment

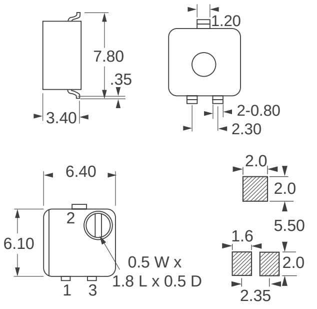

Res.	Digi-Key	Digi-Key	Cut Tape Price Each			Digi-Key	Digi-Key	T&R Pricing
(Ω)	Part No.	Part No.	1	10	100	Part No.	Part No.	500
1K	ST7ETA102CT-ND	ST7ETB102CT-ND	5.99	5.56	5.03	ST7ETA102TR-ND	ST7ETB102TR-ND	2138.50
2K	ST7ETA202CT-ND	ST7ETB202CT-ND	5.99	5.56	5.03	ST7ETA202TR-ND	ST7ETB202TR-ND	2138.50
5K	ST7ETA502CT-ND	ST7ETB502CT-ND	5.99	5.56	5.03	ST7ETA502TR-ND	ST7ETB502TR-ND	2138.50
10K	ST7ETA103CT-ND	ST7ETB103CT-ND	5.99	5.56	5.03	ST7ETA103TR-ND	ST7ETB103TR-ND	2138.50
20K	ST7ETA203CT-ND	ST7ETB203CT-ND	5.99	5.56	5.03	ST7ETA203TR-ND	ST7ETB203TR-ND	2138.50
50K	ST7ETA503CT-ND	ST7ETB503CT-ND	5.99	5.56	5.03	ST7ETA503TR-ND	ST7ETB503TR-ND	2138.50
100K	ST7ETA104CT-ND	ST7ETB104CT-ND	5.99	5.56	5.03	ST7ETA104TR-ND	ST7ETB104TR-ND	2138.50

Units Marked with Resistance Mark and 2 Digit Date Code.

(Continued)

Model ST-32

Surface Mount, 3mm Squared Single-Turn

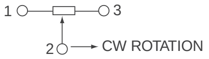

ST32ETA - J Lead, Top Adjustment

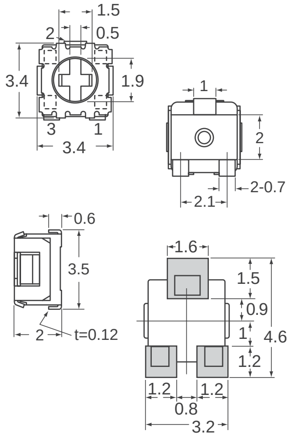

ST32ETB - Gull Wing, Top Adjustment

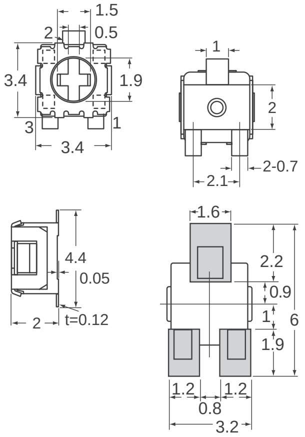

FEATURES: • Lead-free soldering, Cadmium-free • Top adjustment style • Rotor with a cross slot for ease of adjustment • Leaded terminals provide strong as adhesive strength against P.C.B. bending • J-hook and Gull wing configurations • Sealed/Washable

ELECTRICAL: **Resistance Tolerance:** ±20% **Maximum Temperature Coefficient:** 100Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.125W at 70°C, 0W at 125°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Angle:** 210° (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 500VAC, 1 minute

MECHANICAL: **Mechanical Angle:** 250° (1 turn) **Maximum Operating Torque:** 5mN.m (51gf.cm) **Minimum Stop Strength:** 20mN.m (204gf.cm) **Rotational Life:** 100 cycles (▲ R/R ≤ ± (2Ω +3%)

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Digi-Key Part No.	T/R Pricing 500
50	ST32ETA500CT-ND	ST32ETB500CT-ND	1.15	1.07	.97	ST32ETA500TR-ND	ST32ETB500TR-ND	410.50
100	ST32ETA101CT-ND	ST32ETB101CT-ND	1.15	1.07	.97	ST32ETA101TR-ND	ST32ETB101TR-ND	410.50
200	ST32ETA201CT-ND	ST32ETB201CT-ND	1.15	1.07	.97	ST32ETA201TR-ND	ST32ETB201TR-ND	410.50
500	ST32ETA501CT-ND	ST32ETB501CT-ND	1.15	1.07	.97	ST32ETA501TR-ND	ST32ETB501TR-ND	410.50
1K	ST32ETA102CT-ND	ST32ETB102CT-ND	1.15	1.07	.97	ST32ETA102TR-ND	ST32ETB102TR-ND	410.50
2K	ST32ETA202CT-ND	ST32ETB202CT-ND	1.15	1.07	.97	ST32ETA202TR-ND	ST32ETB202TR-ND	410.50
5K	ST32ETA502CT-ND	ST32ETB502CT-ND	1.15	1.07	.97	ST32ETA502TR-ND	ST32ETB502TR-ND	410.50
10K	ST32ETA103CT-ND	ST32ETB103CT-ND	1.15	1.07	.97	ST32ETA103TR-ND	ST32ETB103TR-ND	410.50
20K	ST32ETA203CT-ND	ST32ETB203CT-ND	1.15	1.07	.97	ST32ETA203TR-ND	ST32ETB203TR-ND	410.50
50K	ST32ETA503CT-ND	ST32ETB503CT-ND	1.15	1.07	.97	ST32ETA503TR-ND	ST32ETB503TR-ND	410.50
100K	ST32ETA104CT-ND	ST32ETB104CT-ND	1.15	1.07	.97	ST32ETA104TR-ND	ST32ETB104TR-ND	410.50
200K	ST32ETA204CT-ND	ST32ETB204CT-ND	1.15	1.07	.97	ST32ETA204TR-ND	ST32ETB204TR-ND	410.50
500K	ST32ETA504CT-ND	ST32ETB504CT-ND	1.15	1.07	.97	ST32ETA504TR-ND	ST32ETB504TR-ND	410.50
1 Meg	ST32ETA105CT-ND	ST32ETB105CT-ND	1.15	1.07	.97	ST32ETA105TR-ND	ST32ETB105TR-ND	410.50

Units Marked with Resistance Mark and 1 Digit Date Code.

Model CT6

6mm Squared Single Turn

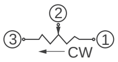

FEATURES: • Lead-free soldering, Cadmium-free • Various configurations • "O" ring sealed and washable

ELECTRICAL: **Resistance Tolerance:** ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 120°C **Maximum Input Voltage:** 200VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Angle:** 220° (1 turn) **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 120°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 900VAC, 1 minute

MECHANICAL: **Mechanical Angle:** 260° (1 turn) **Operating Torque:** 2~20mN.m (20~204gf.cm) **Minimum Stop Strength:** 50mN.m (510gf.cm) **Rotational Life:** 200 cycles, (▲ R/R ≤ ± (2Ω +3%) **Minimum Terminal Strength:** 10N (1.02kgf) **Solderability:** 245 ±3°C, 2-3 seconds

CT6EP - Top Adjustment

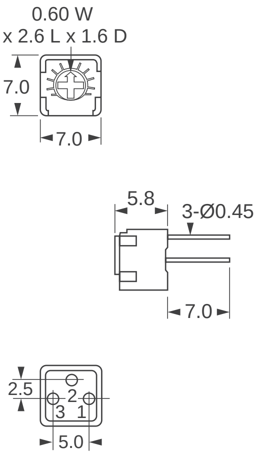

CT6ER - Top Adjustment

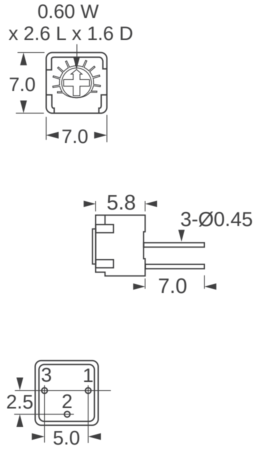

CT6EW - Top Adjustment

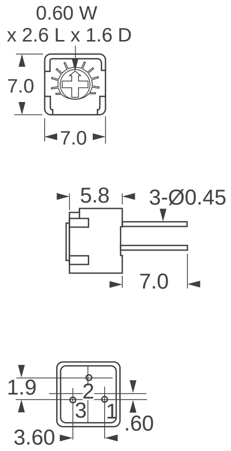

CT6EX - Side Adjustment

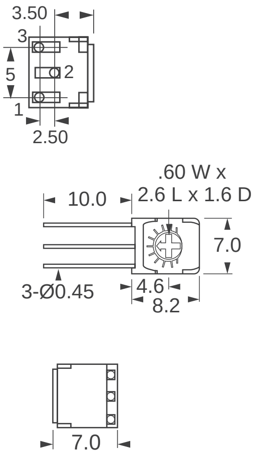

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
50	CT6EP500-ND	.68	.64	.58	.49	.44
100	CT6EP101-ND	.68	.64	.58	.49	.44
200	CT6EP201-ND	.68	.64	.58	.49	.44
500	CT6EP501-ND	.68	.64	.58	.49	.44
1K	CT6EP102-ND	.68	.64	.58	.49	.44
2K	CT6EP202-ND	.68	.64	.58	.49	.44
5K	CT6EP502-ND	.68	.64	.58	.49	.44
10K	CT6EP103-ND	.68	.64	.58	.49	.44
20K	CT6EP203-ND	.68	.64	.58	.49	.44
50K	CT6EP503-ND	.68	.64	.58	.49	.44
100K	CT6EP104-ND	.68	.64	.58	.49	.44
200K	CT6EP204-ND	.68	.64	.58	.49	.44
500K	CT6EP504-ND	.68	.64	.58	.49	.44
1 Meg	CT6EP105-ND	.68	.64	.58	.49	.44
2 Meg	CT6EP205-ND	.68	.64	.58	.49	.44

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Price Each 1	10	100	500	1,000
50	CT6ER500-ND	CT6EW500-ND	.76	.71	.64	.55	.49
100	CT6ER101-ND	CT6EW101-ND	.76	.71	.64	.55	.49
200	CT6ER201-ND	CT6EW201-ND	.76	.71	.64	.55	.49
500	CT6ER501-ND	CT6EW501-ND	.76	.71	.64	.55	.49
1K	CT6ER102-ND	CT6EW102-ND	.76	.71	.64	.55	.49
2K	CT6ER202-ND	CT6EW202-ND	.76	.71	.64	.55	.49
5K	CT6ER502-ND	CT6EW502-ND	.76	.71	.64	.55	.49
10K	CT6ER103-ND	CT6EW103-ND	.76	.71	.64	.55	.49
20K	CT6ER203-ND	CT6EW203-ND	.76	.71	.64	.55	.49
50K	CT6ER503-ND	CT6EW503-ND	.76	.71	.64	.55	.49
100K	CT6ER104-ND	CT6EW104-ND	.76	.71	.64	.55	.49
200K	CT6ER204-ND	CT6EW204-ND	.76	.71	.64	.55	.49
500K	CT6ER504-ND	CT6EW504-ND	.76	.71	.64	.55	.49
1 Meg	CT6ER105-ND	CT6EW105-ND	.76	.71	.64	.55	.49
2 Meg	CT6ER205-ND	CT6EW205-ND	.76	.71	.64	.55	.49

Res. (Ω)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
50	CT6EX500-ND	.80	.75	.68	.58	.52
100	CT6EX101-ND	.80	.75	.68	.58	.52
200	CT6EX201-ND	.80	.75	.68	.58	.52
500	CT6EX501-ND	.80	.75	.68	.58	.52
1K	CT6EX102-ND	.80	.75	.68	.58	.52
2K	CT6EX202-ND	.80	.75	.68	.58	.52
5K	CT6EX502-ND	.80	.75	.68	.58	.52
10K	CT6EX103-ND	.80	.75	.68	.58	.52
20K	CT6EX203-ND	.80	.75	.68	.58	.52
50K	CT6EX503-ND	.80	.75	.68	.58	.52
100K	CT6EX104-ND	.80	.75	.68	.58	.52
200K	CT6EX204-ND	.80	.75	.68	.58	.52
500K	CT6EX504-ND	.80	.75	.68	.58	.52
1 Meg	CT6EX105-ND	.80	.75	.68	.58	.52
2 Meg	CT6EX205-ND	.80	.75	.68	.58	.52

Units Marked with Resistance Mark and 2 Digit Date Code.

(Continued)

Model CT94 *9mm Squared Multi-Turn*

CT94EW - Top Adjustment

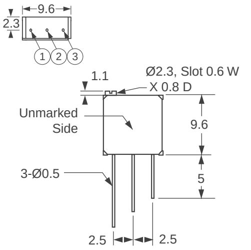

CT94EX - Side Adjustment

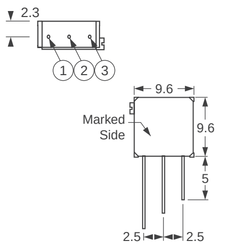

CT94EP - Side Adjustment

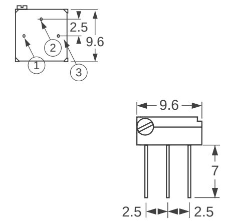

CT94EY - Top Adjustment

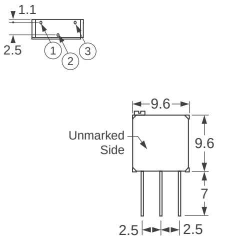

CT94EZ - Side Adjustment

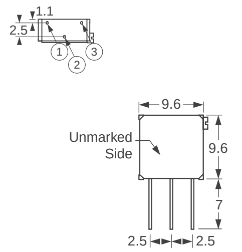

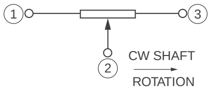

FEATURES: • Lead-free soldering, Cadmium-free • Thin body design • 18 turn, sealed, precision type ***ELECTRICAL:*** **Resistance Tolerance:** ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 125°C **Maximum Input Voltage:** 300VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 15 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 125°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 900VAC, 1 minute ***MECHANICAL:*** **Mechanical Turn:** 18 turns **Maximum Operating Torque:** 35mN.m (357gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, (▲ R/R ≤ ± (2Ω +3%) **Minimum Terminal Strength:** 10N (1.02kgf) **Solderability:** 245 ±3°C, 2-3 seconds

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Price Each			
			1	10	100	500
50	CT94EW500-ND	—	1.36	1.27	1.15	.98
100	CT94EW101-ND	CT94EX101-ND	1.36	1.27	1.15	.98
200	CT94EW201-ND	CT94EX201-ND	1.36	1.27	1.15	.98
500	CT94EW501-ND	CT94EX501-ND	1.36	1.27	1.15	.98
1K	CT94EW102-ND	CT94EX102-ND	1.36	1.27	1.15	.98
2K	CT94EW202-ND	CT94EX202-ND	1.36	1.27	1.15	.98
5K	CT94EW502-ND	CT94EX502-ND	1.36	1.27	1.15	.98
10K	CT94EW103-ND	CT94EX103-ND	1.36	1.27	1.15	.98
20K	CT94EW203-ND	CT94EX203-ND	1.36	1.27	1.15	.98
50K	CT94EW503-ND	CT94EX503-ND	1.36	1.27	1.15	.98
100K	CT94EW104-ND	CT94EX104-ND	1.36	1.27	1.15	.98
200K	CT94EW204-ND	CT94EX204-ND	1.36	1.27	1.15	.98
500K	CT94EW504-ND	CT94EX504-ND	1.36	1.27	1.15	.98
1 Meg	CT94EW105-ND	CT94EX105-ND	1.36	1.27	1.15	.98
2 Meg	CT94EW205-ND	—	1.36	1.27	1.15	.98

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each			
				1	10	100	500
50	—	CT94EY500-ND	—	1.36	1.27	1.15	.98
100	CT94EP101-ND	CT94EY101-ND	CT94EZ101-ND	1.36	1.27	1.15	.98
200	—	CT94EY201-ND	CT94EZ201-ND	1.36	1.27	1.15	.98
500	CT94EP501-ND	CT94EY501-ND	CT94EZ501-ND	1.36	1.27	1.15	.98
1K	CT94EP102-ND	CT94EY102-ND	CT94EZ102-ND	1.36	1.27	1.15	.98
2K	CT94EP202-ND	CT94EY202-ND	CT94EZ202-ND	1.36	1.27	1.15	.98
5K	CT94EP502-ND	CT94EY502-ND	CT94EZ502-ND	1.36	1.27	1.15	.98
10K	CT94EP103-ND	CT94EY103-ND	CT94EZ103-ND	1.36	1.27	1.15	.98
20K	CT94EP203-ND	CT94EY203-ND	CT94EZ203-ND	1.36	1.27	1.15	.98
50K	CT94EP503-ND	CT94EY503-ND	CT94EZ503-ND	1.36	1.27	1.15	.98
100K	CT94EP104-ND	CT94EY104-ND	CT94EZ104-ND	1.36	1.27	1.15	.98
200K	CT94EP204-ND	CT94EY204-ND	—	1.36	1.27	1.15	.98
500K	CT94EP504-ND	CT94EY504-ND	CT94EZ504-ND	1.36	1.27	1.15	.98
1 Meg	—	CT94EY105-ND	—	1.36	1.27	1.15	.98
2 Meg	CT94EP205-ND	CT94EY205-ND	—	1.36	1.27	1.15	.98

Units Marked with Resistance Code and 2 Digit Date Code.

Model CT9 *9mm Squared Multi-Turn*

CT9EP - Side Adjustment

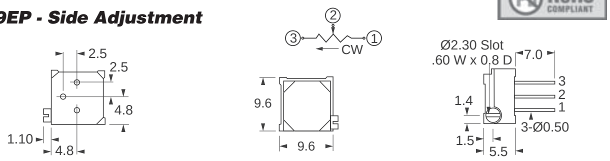

CT9EW - Top Adjustment

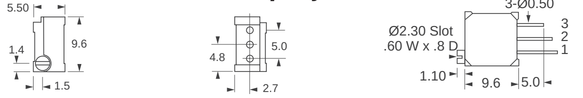

CT9EX - Side Adjustment

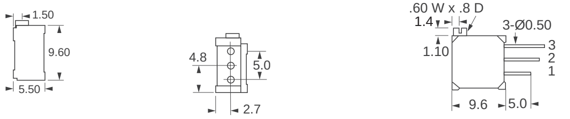

FEATURES:

- Lead-free soldering, Cadmium-free • General use
- Fine setting possible with 18 turn configuration

ELECTRICAL:

Resistance Tolerance: ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 120°C **Maximum Input Voltage:** 300VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 15 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 120°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 900VAC, 1 minute

MECHANICAL:

Mechanical Turn: 18 turns **Maximum Operating Torque:** 35mN.m (357gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, (▲ R/R ≤ ± (2Ω +3%) **Minimum Terminal Strength:** 10N (1.02kgf) **Solderability:** 245 ±3°C, 2-3 seconds

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Price Each				
				1	10	100	500	1,000
1K	CT9EP102-ND	CT9EW102-ND	CT9EX102-ND	1.87	1.75	1.58	1.34	1.21
2K	CT9EP202-ND	CT9EW202-ND	CT9EX202-ND	1.87	1.75	1.58	1.34	1.21
5K	CT9EP502-ND	CT9EW502-ND	CT9EX502-ND	1.87	1.75	1.58	1.34	1.21
10K	CT9EP103-ND	CT9EW103-ND	CT9EX103-ND	1.87	1.75	1.58	1.34	1.21
20K	CT9EP203-ND	CT9EW203-ND	CT9EX203-ND	1.87	1.75	1.58	1.34	1.21
50K	CT9EP503-ND	CT9EW503-ND	CT9EX503-ND	1.87	1.75	1.58	1.34	1.21
100K	CT9EP104-ND	CT9EW104-ND	CT9EX104-ND	1.87	1.75	1.58	1.34	1.21

Units Marked with Resistance Mark and 2 Digit Date Code.

Model CT20

20mm Rectangular Multi-Turn

CT20EP - Side Adjustment

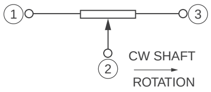

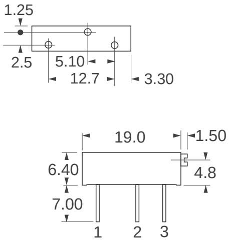

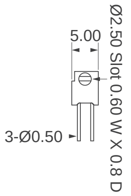

FEATURES: • Lead-free soldering, Cadmium-free • General use

ELECTRICAL: **Resistance Tolerance:** ±10% **Maximum Temperature Coefficient:** 50Ω ~ 2MΩ ±100 ppm/°C, other ±250 ppm/°C **Power Ratings:** 0.5W at 70°C, 0W at 120°C **Maximum Input Voltage:** 300VDC or power rating, whichever is less **Maximum Wiper Current:** 100mA or power rating, whichever is less **Effective Electrical Turn:** 12 turns **End Resistance:** 1% or 2Ω, whichever is greater **Contact Resistance Variation:** 1% or 3Ω, whichever is greater **Operating Temperature Range:** -55°C ~ 120°C **Minimum Insulation Resistance:** 1000MΩ at 500VDC **Dielectric Strength:** 600VAC, 1 minute

MECHANICAL: **Mechanical Turn:** 15 turns **Maximum Operating Torque:** 35mN.m (357gf.cm) **Mechanical Stop:** Clutch action **Rotational Life:** 200 cycles, 10Ω ~ 200Ω (▲ R/R ≤ ± (0.5Ω +3%); 500Ω ~ 5MΩ (▲ R/R ≤ ± (0.5Ω +2%) **Minimum Terminal Strength:** 9N (917gf) **Solderability:** 245 ±3°C, 2-3 seconds

Resistance (Ω)	Digi-Key Part No.	Price Each				
		1	10	100	500	1,000
1K	CT20EP102-ND	1.60	1.49	1.35	1.15	1.04
2K	CT20EP202-ND	1.60	1.49	1.35	1.15	1.04
5K	CT20EP502-ND	1.60	1.49	1.35	1.15	1.04
10K	CT20EP103-ND	1.60	1.49	1.35	1.15	1.04
20K	CT20EP203-ND	1.60	1.49	1.35	1.15	1.04
50K	CT20EP503-ND	1.60	1.49	1.35	1.15	1.04
100K	CT20EP104-ND	1.60	1.49	1.35	1.15	1.04

Units Marked with Resistance Mark and 2 Digit Date Code.

BOURNS Precision Potentiometers

SERIES 50 Sealed 1/2" (12.5mm) Square Control

- **Effective Electrical Angle:** 270° ±5° • **Contact Resistance Variation:** 2.0% • **Dielectric Withstanding Voltage:** Sea Level: 1,500VAC minimum; 70,000 Feet: 500VAC minimum • **Insulation Resistance:** 1,000MΩ minimum
- **Mounting hardware included**

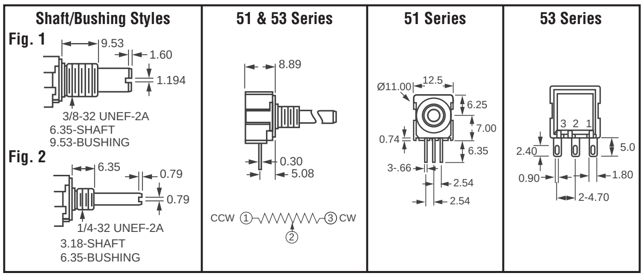

Bush. Fig.	Taper	Resis. Tolerance	Ω	Watts	Element Material	Digi-Key Part No.	Price Each 1	25	50	100
2	Linear	±10%	1K	1	Cermet	51CAD-E28-A10-ND	7.39	5.75	4.70	3.98
2	Linear	±10%	5K	1	Cermet	51CAD-E28-A13-ND	7.39	5.75	4.70	3.98
1	Audio	±20%	10K	1/4	Conductive Plastic	51AAD-B28-D15-ND	7.97	6.21	5.07	4.29
2	Audio	±20%	10K	1/4	Conductive Plastic	51CAD-E28-D15-ND	7.97	6.21	5.07	4.29
2	Linear	±20%	10K	1/2	Conductive Plastic	51CAD-E24-B15-ND	7.39	5.75	4.70	3.98
1	Linear	±10%	10K	1	Cermet	51AAD-B24-A15-ND	7.39	5.75	4.70	3.98
2	Linear	±10%	10K	1	Cermet	51CAD-E24-A15-ND	7.39	5.75	4.70	3.98
2	Linear	±10%	100K	1	Cermet	51CAD-E28-A20-ND	7.39	5.75	4.70	3.98
1	Linear	±20%	10K	1/2	Conductive Plastic	53AAA-B28-B15-ND	8.51	6.63	5.41	4.58

SERIES 81

2 Watt Cermet - 5/8" (15.88mm) Square Single - Turn

- **Resistance Tolerance:** ±10% • **Continuity:** Maintained for full mechanical angle • **Effective Electrical Angle:** 240° ±6° • **Contact Resistance Variation:** ±1% or 3Ω (whichever is greater) • **Theoretical Resolution:** Essentially Infinite
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1500VAC minimum; 70,000 Feet: 500VAC minimum) • **Insulation Resistance (500 VDC):** 1,000MΩ minimum • **Mounting hardware included**

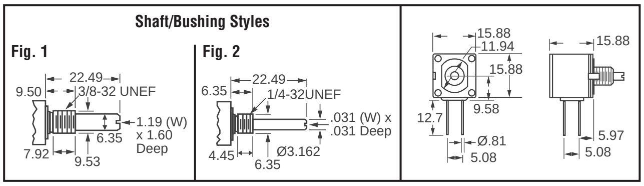

Bushing Fig.	Ω	Digi-Key Part No.	Price Each 1	25	50	100
1	1K	81A1A-B28-A10-ND	9.02	7.02	5.74	4.85
1	5K	81A1A-B28-A13-ND	9.02	7.02	5.74	4.85
2	5K	81C1A-E28-A13-ND	9.02	7.02	5.74	4.85
1	10K	81A1A-B28-A15-ND	9.02	7.02	5.74	4.85
2	10K	81C1A-E28-A15-ND	9.02	7.02	5.74	4.85
2	100K	81C1A-E28-A20-ND	9.02	7.02	5.74	4.85

SERIES 91 5/8" Square Single-Turn Conductive Plastic - Bushing Mount

- **Resistance Tolerance:** ±20% • **Continuity:** Maintained for full mechanical angle • **Effective Electrical Angle:** 240° ±5° • **Contact Resistance Variation:** ±1% • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1,500VAC minimum; 70,000 Feet: 500VAC minimum) • **Insulation Resistance (500 VDC):** 1,000MΩ minimum
- **Theoretical Resolution:** Essentially infinite • **Mounting hardware included**

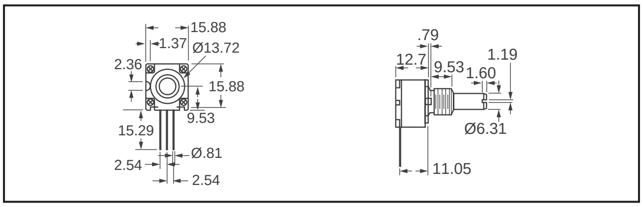

Taper	Ω	Watts	Shaft Length From Mtg. Surface Inches (mm)	Digi-Key Part No.	Price Each 1	25	50	100
Linear	1K	1/2	7/8" (22.23)	91A1A-B28-B10-ND	4.74	3.69	3.01	2.55
Linear	5K	1/2	3/4" (19.05)	91A1A-B24-B13-ND	4.74	3.69	3.01	2.55
Linear	5K	1/2	7/8" (22.23)	91A1A-B28-B13-ND	4.74	3.69	3.01	2.55
Audio	10K	1/4	3/4" (19.05)	91A1A-B24-D15-ND	5.37	4.18	3.42	2.89
Linear	10K	1/2	3/4" (19.05)	91A1A-B24-B15-ND	4.74	3.69	3.01	2.55
Linear	10K	1/2	7/8" (22.23)	91A1A-B28-B15-ND	4.74	3.69	3.01	2.55

SERIES 6639 1 Watt Conductive Plastic - Bushing Mount

- **Resistance Tolerance:** Standard ±15% • **Resolution:** Essentially infinite • **Effective Electrical Angle:** 340° +3° • **End Voltage:** 0.5% maximum • **Output Smoothness:** 0.1% • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 750VAC minimum) • **Insulation Resistance (500 VDC):** 500MΩ minimum • **Mounting hardware included**

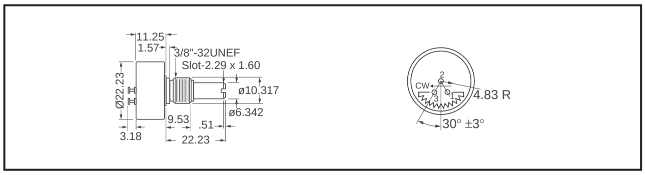

Ω	Digi-Key Part No.	Price Each 1	50	100	500
1K	6639S-1-102-ND	11.46	9.29	8.48	8.30
5K	6639S-1-502-ND	11.46	9.29	8.48	8.30
10K	6639S-1-103-ND	11.46	9.29	8.48	8.30

SERIES 3540/3541

2 Watt - 10 Turn Wirewound/**Hybritron**®

- **Resistance Tolerance:** ±5% for 3540 series ±10% for 3541 series
- **Effective Electrical Angle:** 3600° +10°, -0°
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1,000VAC minimum)
- **Insulation Resistance (500VDC):** 1,000MΩ minimum
- **Mounting hardware included**

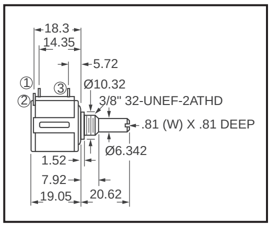

Ω	Resolution %	Digi-Key Part No.	Price Each 1	50	100	500
		Wirewound				
100	.055	3540S-1-101-ND	13.38	10.84	9.90	9.37
500	.031	3540S-1-501-ND	13.38	10.84	9.90	9.37
1K	.027	3540S-1-102-ND	13.38	10.84	9.90	9.37
2K	.021	3540S-1-202-ND	13.38	10.84	9.90	9.37
5K	.021	3540S-1-502-ND	13.38	10.84	9.90	9.37
10K	.019	3540S-1-103-ND	13.38	10.84	9.90	9.37
20K	.014	3540S-1-203-ND	13.38	10.84	9.90	9.37
50K	.011	3540S-1-503-ND	14.88	12.05	11.01	10.42
100K	.008	3540S-1-104-ND	16.72	13.54	12.37	11.70
		Hybritron				
1K	Essentially Infinite	3541H-1-102-ND	28.28	22.91	20.93	19.80
5K		3541H-1-502-ND	28.28	22.91	20.93	19.80
10K		3541H-1-103-ND	28.28	22.91	20.93	19.80

SERIES 3590 2 Watt - 10 Turn Wirewound

- **Resistance Tolerance:** ±5% • **Effective Electrical Angle:** 3600° +10°, -0° • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 2,000VAC minimum) • **Insulation Resistance (500 VDC):** 1,000MΩ minimum
- **Mounting hardware included**

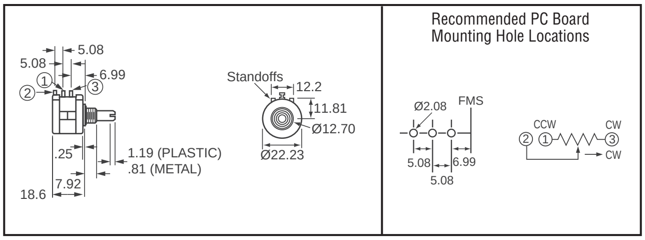

Ω	Resolution %	Bushing Type & Dim.	Shaft Diameter Inches (mm)	Digi-Key Part No.	Price Each 1	50	100	500
2K	.023	3/8" x 5/16" Plastic	.2480" (6.30) Plastic	3590S-1-202-ND	10.02	8.12	7.41	7.02
5K	.025			3590S-1-502-ND	10.02	8.12	7.41	7.02
20K	.016			3590S-1-203-ND	10.02	8.12	7.41	7.02
50K	.013			3590S-1-503-ND	12.10	9.80	8.96	8.48
100K	.009			3590S-1-104-ND	12.98	10.51	9.61	9.10
500	.033	3/8" x 5/16" Metal	.2497" (6.34) Metal	3590S-2-501-ND	10.02	8.12	7.41	7.02
1K	.029			3590S-2-102-ND	10.02	8.12	7.41	7.01
2K	.023			3590S-2-202-ND	10.02	8.12	7.41	7.02
5K	.025			3590S-2-502-ND	10.02	8.12	7.41	7.01
10K	.020			3590S-2-103-ND	10.02	8.12	7.41	7.01
20K	.016			3590S-2-203-ND	10.02	8.12	7.41	7.01
50K	.013			3590S-2-503-ND	12.10	9.80	8.95	8.47
100K	.009			3590S-2-104-ND	12.98	10.51	9.61	9.09
10K	.020	9mm x 7.94mm Metal	.2362" (6.00) Metal	3590S-6-103-ND	12.10	9.80	8.95	8.47

SERIES 3852

2 Watt Cermet 3/4” (19.05mm) Diameter Panel Control

- **Resistance Tolerance:** ±10% • **Continuity:** Maintained for full mechanical angle • **Eff-ective Electrical Angle:** 250° ±5° • **Contact Resistance Variation:** ±3% of total resistance or 3Ω (whichever is greater) • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 900VAC minimum; 70,000 Feet: 350VAC minimum) • **Insulation Resistance (500VDC):** 1,000MΩ minimum • **Mounting hardware included**

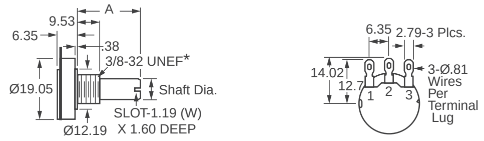

* 3852C – 1/4 - 32 UNEF

Ω	Dim. A (mm)	Shaft Dia. (mm)	Digi-Key Part No.	Price Each 1	25	50	100	250
1K	12.7	6.35	3852A-162-102A-ND	9.16	7.12	5.83	4.93	4.58
1K	22.20	6.35	3852A-282-102A-ND	9.16	7.12	5.83	4.93	4.58
5K	22.20	6.35	3852A-282-502A-ND	9.16	7.12	5.83	4.93	4.58
10K	22.20	6.35	3852A-282-103A-ND	9.16	7.12	5.83	4.93	4.58
10K	12.7	6.35	3852A-162-103A-ND	9.16	7.12	5.83	4.93	4.58
100K	22.20	6.35	3852A-282-104A-ND	9.16	7.12	5.83	4.93	4.58
10K	22.20	3.18	3852C-282-103A-ND*	9.16	7.12	5.83	4.93	4.58

SERIES 3862

1 Watt Cermet 1/2” (12.5mm) Diameter Single-Turn Panel Control

- **Resistance Tolerance:** ±10% • **Continuity:** Maintained for full mechanical angle • **Effective Electrical Angle:** 260° ±10° • **Contact Resistance Variation:** ±3% of total resistance • **Theoretical Resolution:** Essentially infinite • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 750VAC minimum; 70,000 Feet: 350VAC minimum) • **Insulation Resistance (500 VDC):** 1,000MΩ minimum • **Mounting hardware included**

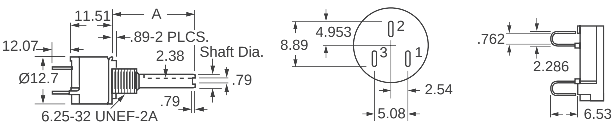

Ω	Dim. A (mm)	Shaft Dia. (mm)	Digi-Key Part No.	Price Each 1	25	50	100	250
10K	12.7	3.18	3862C-162-103A-ND	14.69	11.44	9.34	7.90	7.35
10K	22.20	3.18	3862C-282-103A-ND	14.69	11.44	9.34	7.90	7.35

SERIES 3500

2 Watt - 10 Turn Wirewound

- **Resistance Tolerance:** ±3% • **Independent Linearity:** ±0.20% • **Effective Electrical Angle:** 3600° +10°, -0° • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea level: 1,500VAC minimum); 70,000 Feet: 400VAC minimum • **Insulation Resistance (500VDC):** 1,000MΩ minimum • **Mounting hardware included**

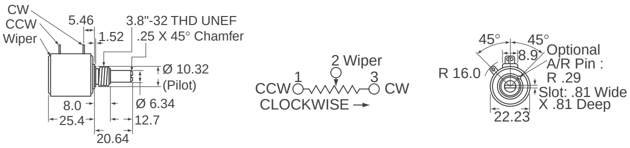

Ω	Resolution %	Digi-Key Part No.	Price Each 1	25	100	500	1,000
1K	.030	3500S-2-102-ND	41.75	33.82	30.91	29.23	27.15
5K	.018	3500S-2-502-ND	41.75	33.82	30.91	29.23	27.15
10K	.019	3500S-2-103-ND	41.75	33.82	30.91	29.23	27.15

SERIES 3610

1.5 Watt - 10 Turn Wirewound Digital Clock Face

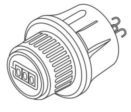

- **Resistance Tolerance:** ±5%
- **Accuracy (Correlation of Dial Readout to Voltage Ratio Output):** ±0.5% Voltage ratio
- **Repeatability of Dial Readout:** ±0.1% Voltage ratio
- **Effective Electrical Angle:** 3600° nominal
- **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1,000VAC minimum); 70,000 Feet: 400VAC minimum

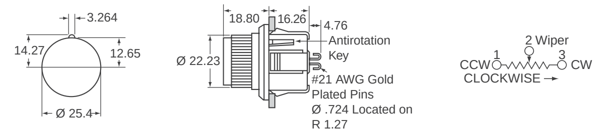

Ω	Resolution %	Digi-Key Part No.	Price Each 1	25	100	500	1,000
5K	.027	3610S-1-502-ND	60.92	49.35	45.08	42.66	39.60

SERIES 3680

2 Watt Pushbutton Cermet

- **Resistance Tolerance:** ±3% • **Resolution:** 3682: 1%; 3683: 0.1% • **Power Rating:** +25°C: 2 Watts • **Dielectric Withstanding Voltage:** MIL-STD-202, Method 301 (Sea Level: 1000VAC minimum)

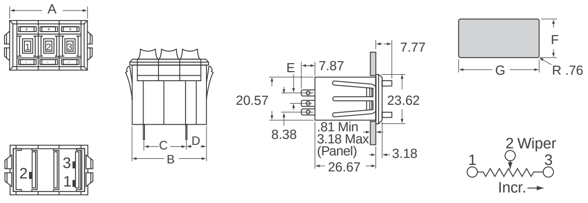

Ω	Dimensions (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Price Each 1	25	100	500	1,000
10K	26.67	25.15	10.67	11.94	8.38	21.08	25.91	3682S-1-103-ND	27.34	22.14	20.23	19.14	17.78
1K	37.08	35.31	18.54	11.94	4.19	21.08	36.07	3683S-1-102-ND	40.46	32.77	29.94	28.32	26.30
5K	37.08	35.31	18.54	11.94	4.19	21.08	36.07	3683S-1-502-ND	40.46	32.77	29.94	28.32	26.30
10K	37.08	35.31	18.54	11.94	4.19	21.08	36.07	3683S-1-103-ND	40.46	32.77	29.94	28.32	26.30

SERIES H-22, H-46, and H-550

Turn’s Counting Dials

Fig. 1

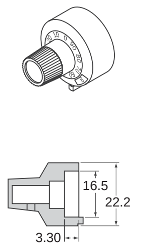

Fig. 2

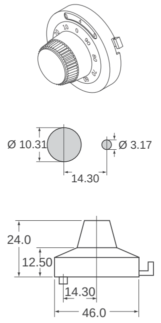

Fig. 3

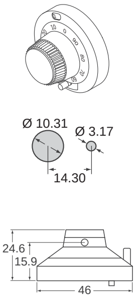

Fig.	Turns	Read Out	Division/ Turn	Brake	Diameter (mm)	Accepts Shaft Dia. (mm)	Body Finish	Digi-Key Part No.	Price Each 1	25	50
					H-22 Series						
1	0-15	Analog	50	Yes	22	6.35	Clear	H-22-6A-ND	8.54	8.12	7.69
					H-46 Series						
2	0-20	Analog	100	Yes	46	6.35	Clear	H-46-6A-ND	16.90	16.06	15.21
					H-550 Series						
3	0-11	Analog	100	Yes	46	6.35	Clear	H-550-6A-1-ND	12.39	11.68	11.15

BOURNS Trimmer Potentiometers

SERIES 3362

1/4" (6.35mm) Square/ Single-Turn Cermet/ Industrial/ Sealed

Common Dimensions
3362H, P, R, U

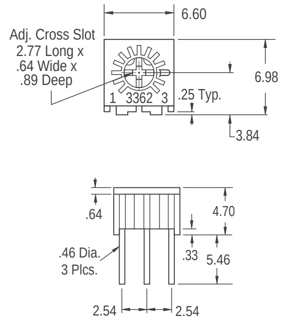

Common Dimensions
3362M, W, X

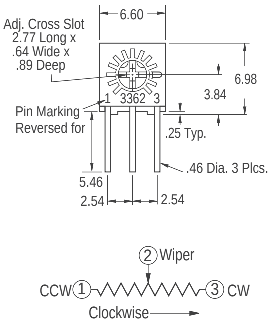

3362H

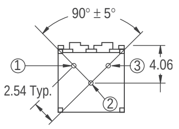

3362M

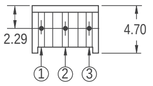

3362P

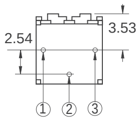

3362R

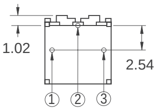

3362U

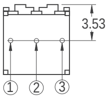

3362W

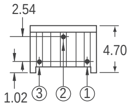

3362X

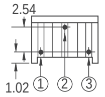

Dim. in mm

FEATURES:

- Miniature package • Rotor designed for automatic machine adjust interface • Multi-wire wiper to minimize CRV • Withstands harsh environments and immersion cleaning process.

CHARACTERISTICS:

- **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 240° nominal • **Power Rating (300V max.):** 70°C = 0.5W; 125°C= 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.5W @ 70°C (3% ΔTR; CRV, 3% or 3Ω whichever is greater) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Mechanical Angle:** 270° nominal • **Torque:** 3.0 oz-inch maximum • **Stop Strength:** 7.0 oz-inch minimum

Res. (Ω)	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key Part No.	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key Part No.	Digi-Key* Part No.
100	3362H-101-ND	3362M-101-ND	3362P-101-ND	3362R-101-ND	3362U-101-ND	3362W-101-ND	3362X-101-ND
200	3362H-201-ND	3362M-201-ND	3362P-201-ND	3362R-201-ND	3362U-201-ND	3362W-201-ND	3362X-201-ND
500	3362H-501-ND	3362M-501-ND	3362P-501-ND	3362R-501-ND	3362U-501-ND	3362W-501-ND	3362X-501-ND
1K	3362H-102-ND	3362M-102-ND	3362P-102-ND	3362R-102-ND	3362U-102-ND	3362W-102-ND	3362X-102-ND
2K	3362H-202-ND	3362M-202-ND	3362P-202-ND	3362R-202-ND	3362U-202-ND	3362W-202-ND	3362X-202-ND
5K	3362H-502-ND	3362M-502-ND	3362P-502-ND	3362R-502-ND	3362U-502-ND	3362W-502-ND	3362X-502-ND
10K	3362H-103-ND	3362M-103-ND	3362P-103-ND	3362R-103-ND	3362U-103-ND	3362W-103-ND	3362X-103-ND
20K	3362H-203-ND	3362M-203-ND	3362P-203-ND	3362R-203-ND	3362U-203-ND	3362W-203-ND	3362X-203-ND
25K	3362H-253-ND	3362M-253-ND	3362P-253-ND	3362R-253-ND	3362U-253-ND	3362W-253-ND	3362X-253-ND
50K	3362H-503-ND	3362M-503-ND	3362P-503-ND	3362R-503-ND	3362U-503-ND	3362W-503-ND	3362X-503-ND
100K	3362H-104-ND	3362M-104-ND	3362P-104-ND	3362R-104-ND	3362U-104-ND	3362W-104-ND	3362X-104-ND
200K	3362H-204-ND	3362M-204-ND	3362P-204-ND	3362R-204-ND	3362U-204-ND	3362W-204-ND	3362X-204-ND
500K	3362H-504-ND	3362M-504-ND	3362P-504-ND	3362R-504-ND	3362U-504-ND	3362W-504-ND	3362X-504-ND
1M	3362H-105-ND	3362M-105-ND	3362P-105-ND	3362R-105-ND	3362U-105-ND	3362W-105-ND	3362X-105-ND

Series	Pricing 1	10	50
3362H / 3362M / 3362P / 3362R / 3362U / 3362W / 3362X	.83	7.50	36.75

* **3362☐-KIT-ND** ***Digi-Key® Series 3362 Trimmer Potentiometers Kit***
10 each of all values in denoted series (140 total pieces). Notebook style storage case and bin storage guide included. For complete number, substitute corresponding letter (H,R,U,M,X) for ☐ **$89.95**

SERIES 3302

2mm SMD, Trimming Potentiometer

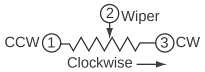

3302W, X

3 Terminals for Automatic Trimming Adjustment Low Profile

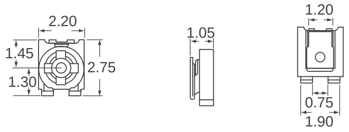

Dim. in mm

Suggested PWB layout

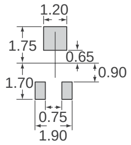

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
2K	3302W-202E☐☐-ND	—
5K	3302W-502E☐☐-ND	3302X-502E☐☐-ND
10K	3302W-103E☐☐-ND	3302X-103E☐☐-ND
20K	3302W-203E☐☐-ND	3302X-203E☐☐-ND

FEATURE:

- Single-Turn Cermet / Open Frame

CHARACTERISTICS:

- **Resistance Tolerance:** ±25% standard • **Contact Resistance Variation:** 5% maximum • **Resolution:** Infinite
- **Adjustment Angle:** 260° ±20° • **Power Rating (50VDC maximum):** 70°C = 0.15W • **Temperature Range:** -40°C ~ 85°C
- **Temperature Coefficient:** ±250ppm/°C **TRS maximum:** ±5%

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 3,000
3302W	Add "CT-ND"	.45	3.75	34.50	Add "TR-ND"	225.00/M
3302X	Add "CT-ND"	.45	3.75	34.50	Add "TR-ND"	225.00/M

SERIES 3303

3mm SMD, Trimming Potentiometer

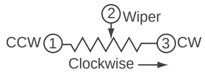

3303C 3-Terminal Both Sides Adjust

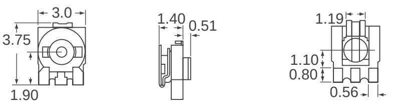

Suggested PWB layout

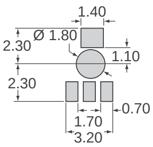

3303W, X Open Frame for Reflow Soldering 3-Terminal Low Profile

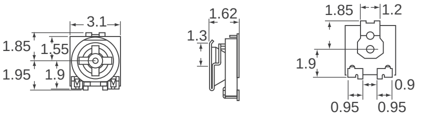

Suggested PWB layout

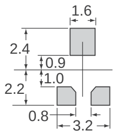

Dim. in mm

CHARACTERISTICS:

- **Resistance Tolerance:** ±25% standard • **Contact Resistance Variation:** 5% maximum • **Resolution:** Infinite
- **Adjustment Angle:** 260° ±20° • **Power Rating (50VDC maximum):** 70°C = 0.15W • **Temperature Range:** -40°C ~ 125°C
- **Temperature Coefficient:** ±250ppm/°C • **TRS maximum:** ±5%

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
500	—	—	3303X-501E☐☐-ND
5K	—	3303W-502E☐☐-ND	—
10K	—	3303W-103E☐☐-ND	—
20K	—	3303W-203E☐☐-ND	—
50K	3303C-503E☐☐-ND	—	—
100K	—	3303W-104E☐☐-ND	3303X-104E☐☐-ND
200K	—	3303W-204E☐☐-ND	—
1MEG	3303C-105E☐☐-ND	—	—

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 2,000
3303C	Add "CT-ND"	.45	3.75	34.50	Add "TR-ND"	225.00/M
3303W	Add "CT-ND"	.26	2.13	19.55	Add "TR-ND"	127.50/M
3303X	Add "CT-ND"	.26	2.13	19.55	Add "TR-ND"	127.50/M

BOURNS Trimmer Potentiometers

SERIES 3313

3mm Trimming Potentiometer

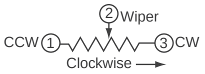

3313J

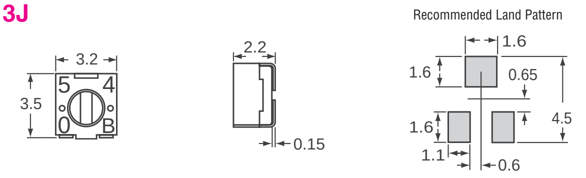

3313S

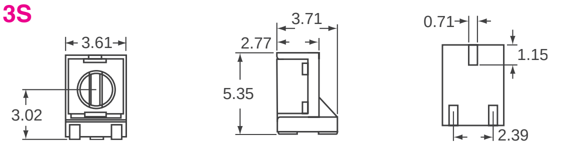

Recommended Land Pattern

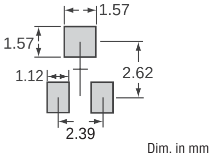

Dim. in mm

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	3313J-101E☐☐-ND	—
200	3313J-201E☐☐-ND	—
500	3313J-501E☐☐-ND	—
1K	3313J-102E☐☐-ND	3313S-102E☐☐-ND
2K	3313J-202E☐☐-ND	—
5K	3313J-502E☐☐-ND	—
10K	3313J-103E☐☐-ND	3313S-103E☐☐-ND
20K	3313J-203E☐☐-ND	3313S-203E☐☐-ND
50K	3313J-503E☐☐-ND	—
100K	3313J-104E☐☐-ND	—
1MEG	—	3313S-105E☐☐-ND

FEATURE:

- Surface Mount 3mm. Square Single-Turn Cermet/ Sealed

CHARACTERISTICS:

• **Resistance Tolerance:** ±20% standard • **End Resistance:** 1% or 3Ω maximum (whichever is greater) • **Contact Resistance Variation:** 3% or 3Ω • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Adjustment Angle:** 220° nominal • **Dielectric Strength:** ***Sea level:*** 500VAC; ***70,000 Feet:*** 350VAC • **Power Rating (200V max.):** 70°C = 0.125W; 125°C = 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ≤100Ω ±150ppm/°C; >100Ω±100ppm/°C

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 200	1,000
3313J	Add “CT-ND”	1.80	15.00	138.00	Add “TR-ND”	—	900.00
3313S	Add “CT-ND”	1.98	16.50	151.80	Add “TR-ND”	244.20	—

SERIES 3009

3/4" (19.05mm) Rectangular/ Multiturn (15) Cermet/ Industrial/ Sealed

Dim. in mm

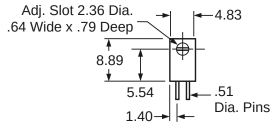

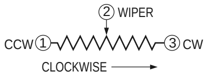

3009P

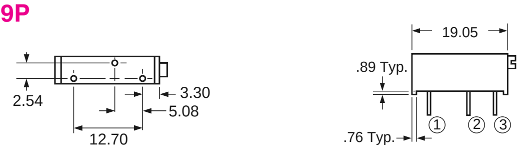

3009Y

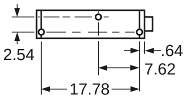

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	3009P-101-ND	3009Y-101-ND
200	3009P-201-ND	3009Y-201-ND
500	3009P-501-ND	3009Y-501-ND
1K	3009P-102-ND	3009Y-102-ND
2K	3009P-202-ND	3009Y-202-ND
5K	3009P-502-ND	3009Y-502-ND
10K	3009P-103-ND	3009Y-103-ND
20K	3009P-203-ND	3009Y-203-ND
25K	3009P-253-ND	3009Y-253-ND
50K	3009P-503-ND	3009Y-503-ND
100K	3009P-104-ND	3009Y-104-ND
200K	3009P-204-ND	3009Y-204-ND
500K	3009P-504-ND	3009Y-504-ND
1M	3009P-105-ND	3009Y-105-ND

CHARACTERISTICS:

• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Travel:** 15 turns nominal • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.75W @ 70°C (4% ΔTR) • **Rotational Life:** 200 cycles (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Torque:** 5.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Series	Pricing 1	10	50
3009P/3009Y	2.72	24.75	106.43

SERIES 3386

3/8" (9.52mm) Square/ Single-Turn Cermet/ Industrial/ Sealed

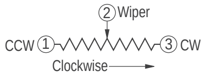

Common Dimensions Side Adjust – 3386C, H, W, X

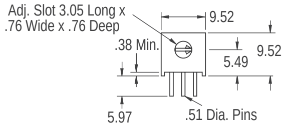

Common Dimensions Top Adjust – 3386F, P, R

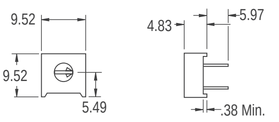

3386C

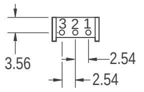

3386F

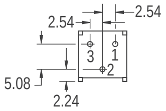

3386H

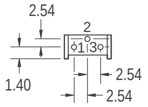

3386P

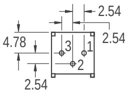

3386R

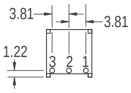

3386W

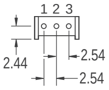

3386X

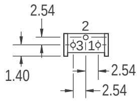

Dim. in mm

CHARACTERISTICS:

• **Resistance Tolerance:** ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 280° • **Power Rating (300V max.):** 85°C = 0.5W; 125°C = 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** 1,000 hours 0.5W @ 70°C (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 1% or 1Ω, whichever is greater) • **Mechanical Angle:** 310° nominal • **Torque:** 5.0 oz-inch maximum • **Stop Strength:** 15.0 oz-inch minimum

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
50	3386C-500-ND*	3386F-500-ND*	3386H-500-ND	3386P-500-ND*	3386R-500-ND*	3386W-500-ND	3386X-500-ND*
100	3386C-101-ND*	3386F-101-ND*	3386H-101-ND	3386P-101-ND*	3386R-101-ND*	3386W-101-ND	3386X-101-ND*
200	3386C-201-ND*	3386F-201-ND*	3386H-201-ND	3386P-201-ND*	3386R-201-ND*	3386W-201-ND	3386X-201-ND*
500	3386C-501-ND*	3386F-501-ND*	3386H-501-ND	3386P-501-ND*	3386R-501-ND*	3386W-501-ND	3386X-501-ND*
1K	3386C-102-ND*	3386F-102-ND*	3386H-102-ND	3386P-102-ND*	3386R-102-ND*	3386W-102-ND	3386X-102-ND*
2K	3386C-202-ND*	3386F-202-ND*	3386H-202-ND	3386P-202-ND*	3386R-202-ND*	3386W-202-ND	3386X-202-ND*
5K	3386C-502-ND*	3386F-502-ND*	3386H-502-ND	3386P-502-ND*	3386R-502-ND*	3386W-502-ND	3386X-502-ND*
10K	3386C-103-ND*	3386F-103-ND*	3386H-103-ND	3386P-103-ND*	3386R-103-ND*	3386W-103-ND	3386X-103-ND*
20K	3386C-203-ND*	3386F-203-ND*	3386H-203-ND	3386P-203-ND*	3386R-203-ND*	3386W-203-ND	3386X-203-ND*
25K	3386C-253-ND	3386F-253-ND	3386H-253-ND	3386P-253-ND	3386R-253-ND	3386W-253-ND	3386X-253-ND
50K	3386C-503-ND*	3386F-503-ND*	3386H-503-ND	3386P-503-ND*	3386R-503-ND*	3386W-503-ND	3386X-503-ND*
100K	3386C-104-ND*	3386F-104-ND*	3386H-104-ND	3386P-104-ND*	3386R-104-ND*	3386W-104-ND	3386X-104-ND*
200K	3386C-204-ND*	3386F-204-ND*	3386H-204-ND	3386P-204-ND*	3386R-204-ND*	—	3386X-204-ND*
250K	3386C-254-ND	3386F-254-ND	3386H-254-ND	3386P-254-ND	3386R-254-ND	3386W-254-ND	3386X-254-ND
500K	3386C-504-ND*	3386F-504-ND*	3386H-504-ND	3386P-504-ND*	3386R-504-ND*	3386W-504-ND	3386X-504-ND*
1M	3386C-105-ND*	3386F-105-ND*	3386H-105-ND	3386P-105-ND*	3386R-105-ND*	3386W-105-ND	3386X-105-ND*
2M	3386C-205-ND*	3386F-205-ND*	3386H-205-ND	3386P-205-ND*	3386R-205-ND*	3386W-205-ND	3386X-205-ND*

Series	Pricing 1	10	50
3386C/3386R	1.43	13.00	55.90
3386F/3386H/3386P/3386W/3386X	1.29	11.75	50.53

* **3386☐-KIT-ND** ***Digi-Key® Series 3386 Trimmer Potentiometer Kit***

5 each of values denoted in series (75 total pieces). Notebook style kit box and bin storage guide included. For complete number, substitute corresponding letter (C,F,P,R,X) for ☐ **$65.95**

SERIES 3260

1/4" (6.35mm)-Square/ Multiturn (11) Wirewound/ Industrial/ Sealed

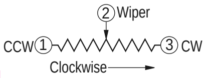

3260H

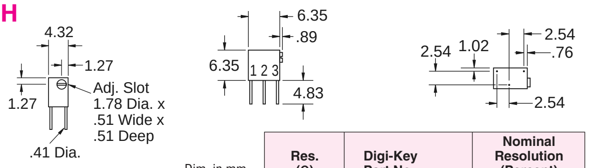

Dim. in mm

CHARACTERISTICS:

• **Resistance Tolerance:** ±5% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 11 turns nominal • **Power Rating:** 85°C = 0.25W; 150°C = 0W • **Temperature Range:** -65°C ~ 150°C. • **Temperature Coefficient:** 70ppm/°C • **Load Life:** 1,000 hours 0.25W @ 85°C (2% DTR; ENR, 500Ω) • **Rotational Life:** 200 cycles (2% DTR; ENR, 500Ω) • **Torque:** 3.0 oz-inch maximum • **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
-100	3260H-101-ND	1.00
-200	3260H-201-ND	0.94
-500	3260H-501-ND	0.58
1K	3260H-102-ND	0.50
2K	3260H-202-ND	0.45
10K	3260H-103-ND	0.29
20K	3260H-203-ND	0.28

Series	Pricing 1	10	50
3260H	28.52	259.25	1114.78

SERIES 3292 3/8" (9.52mm) Square/Multiturn (25) Cermet/Industrial/Sealed

3292W

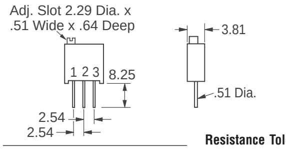

3292P

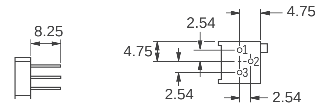

3292X

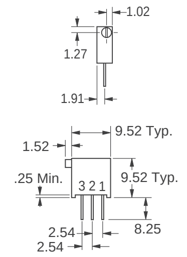

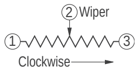

Resistance Tolerance: ±10% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum **Effective Travel:** 25 turns nominal **Power Rating** (400 volts maximum): 85°C — 0.5 watt; 150°C — 0 watt. **Temperature Range:** –65°C ~ 150°C. **Temperature Coefficient:** ±100 ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 85°C (2% ΔTR; CRV, 3% or 3Ω, whichever is greater). **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3Ω, whichever is greater). **Torque:** 5.0 oz-inch maximum **Mechanical Stops:** Wiper idles.

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3292P-101-ND	3292W-101-ND	3292X-101-ND
200	3292P-201-ND	3292W-201-ND	3292X-201-ND
500	3292P-501-ND	3292W-501-ND	3292X-501-ND
1K	3292P-102-ND	3292W-102-ND	3292X-102-ND
2K	3292P-202-ND	3292W-202-ND	3292X-202-ND
5K	3292P-502-ND	3292W-502-ND	3292X-502-ND
10K	3292P-103-ND	3292W-103-ND	3292X-103-ND
20K	3292P-203-ND	3292W-203-ND	3292X-203-ND
50K	3292P-503-ND	3292W-503-ND	3292X-503-ND
100K	3292P-104-ND	3292W-104-ND	3292X-104-ND
200K	3292P-204-ND	3292W-204-ND	3292X-204-ND
500K	3292P-504-ND	3292W-504-ND	3292X-504-ND
1M	3292P-105-ND	3292W-105-ND	3292X-105-ND

Series	Pricing 1	10	50
3292P/3292W/3292X	15.51	141.00	606.30

SERIES 3299 3/8" (9.52mm) Square/Multiturn (25) Cermet/Industrial/Sealed

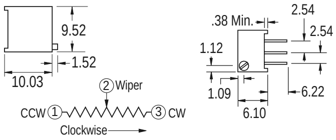

3299X

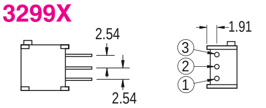

3299P

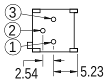

3299Y

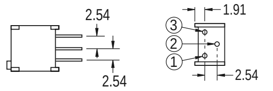

3299W

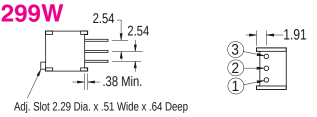

3299Z

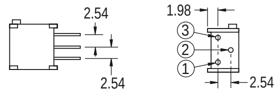

Resistance Tolerance: ±10% standard **Insulation Resistance:** 500vdc. 1,000MΩ minimum **Effective Travel:** 25 turns nominal **Power Rating** (300 volts maximum): 70°C — 0.5 watt; 125°C — 0 watt. **Temperature Range:** –55°C ~ 125°C. **Temperature Coefficient:** ±100ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater). **Torque:** 3.0 oz-inch maximum **Mechanical Stops:** Wiper idles.

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3299P-100-ND	3299W-100-ND	3299X-100-ND	3299Y-100-ND	3299Z-100-ND
20	3299P-200-ND	3299W-200-ND	3299X-200-ND	3299Y-200-ND	3299Z-200-ND
50	3299P-500-ND	3299W-500-ND	3299X-500-ND	3299Y-500-ND	3299Z-500-ND
100	3299P-101-ND	3299W-101-ND	3299X-101-ND	3299Y-101-ND	3299Z-101-ND
200	3299P-201-ND	3299W-201-ND	3299X-201-ND	3299Y-201-ND	3299Z-201-ND
500	3299P-501-ND	3299W-501-ND	3299X-501-ND	3299Y-501-ND	3299Z-501-ND
1K	3299P-102-ND	3299W-102-ND	3299X-102-ND	3299Y-102-ND	3299Z-102-ND
2K	3299P-202-ND	3299W-202-ND	3299X-202-ND	3299Y-202-ND	3299Z-202-ND
5K	3299P-502-ND	3299W-502-ND	3299X-502-ND	3299Y-502-ND	3299Z-502-ND
10K	3299P-103-ND	3299W-103-ND	3299X-103-ND	3299Y-103-ND	3299Z-103-ND
20K	3299P-203-ND	3299W-203-ND	3299X-203-ND	3299Y-203-ND	3299Z-203-ND
25K	3299P-253-ND	3299W-253-ND	—	3299Y-253-ND	3299Z-253-ND
50K	3299P-503-ND	3299W-503-ND	3299X-503-ND	3299Y-503-ND	3299Z-503-ND
100K	3299P-104-ND	3299W-104-ND	3299X-104-ND	3299Y-104-ND	3299Z-104-ND
200K	3299P-204-ND	3299W-204-ND	3299X-204-ND	3299Y-204-ND	3299Z-204-ND
250K	3299P-254-ND	3299W-254-ND	3299X-254-ND	3299Y-254-ND	3299Z-254-ND
500K	3299P-504-ND	3299W-504-ND	3299X-504-ND	3299Y-504-ND	3299Z-504-ND
1M	3299P-105-ND	3299W-105-ND	3299X-105-ND	3299Y-105-ND	3299Z-105-ND
2M	3299P-205-ND	3299W-205-ND	3299X-205-ND	3299Y-205-ND	3299Z-205-ND
5M	3299P-505-ND	3299W-505-ND	3299X-505-ND	3299Y-505-ND	3299Z-505-ND

Series	Pricing 1	10	50
3299P/3299Z	3.14	28.50	122.55
3299W/3299X/3299Y	2.92	26.50	113.95

SERIES 3296 3/8" (9.52mm) Square/Multiturn (25) Cermet/Industrial/Sealed

Common Dimensions

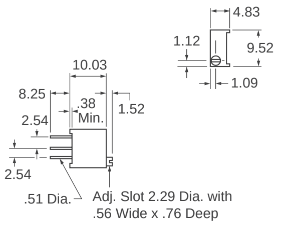

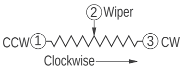

3296W

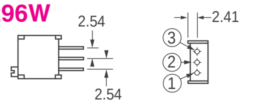

3296X

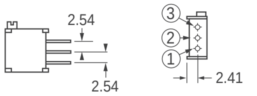

3296Y

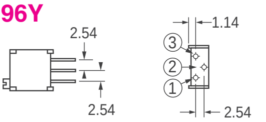

3296P

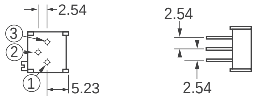

3296Z

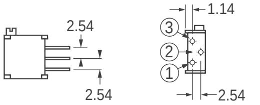

Resistance Tolerance: ±10% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum **Effective Travel:** 25 turns nominal **Power Rating** (300 volts maximum): 70°C — 0.5 watt; 125°C — 0 watt. **Temperature Range:** -55°C ~ 125°C. **Temperature Coefficient:** ±100 ppm/°C. **Load Life:** 1,000 hours 0.5 watt @ 70°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater). **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater). **Torque:** 3.0 oz-inch maximum **Mechanical Stops:** Wiper idles.

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3296P-100-ND*	3296W-100-ND*	3296X-100-ND*	3296Y-100-ND*	—
20	3296P-200-ND	3296W-200-ND	3296X-200-ND	3296Y-200-ND	3296Z-200-ND
50	3296P-500-ND*	3296W-500-ND*	3296X-500-ND*	3296Y-500-ND*	3296Z-500-ND*
100	3296P-101-ND*	3296W-101-ND*	3296X-101-ND*	3296Y-101-ND*	3296Z-101-ND*
200	3296P-201-ND	3296W-201-ND	3296X-201-ND	3296Y-201-ND	3296Z-201-ND
500	3296P-501-ND*	3296W-501-ND*	3296X-501-ND*	3296Y-501-ND*	3296Z-501-ND*
1K	3296P-102-ND*	3296W-102-ND*	3296X-102-ND*	3296Y-102-ND*	3296Z-102-ND*
2K	3296P-202-ND*	3296W-202-ND*	3296X-202-ND*	3296Y-202-ND*	3296Z-202-ND*
5K	3296P-502-ND*	3296W-502-ND*	3296X-502-ND*	3296Y-502-ND*	3296Z-502-ND*
10K	3296P-103-ND*	3296W-103-ND*	3296X-103-ND*	3296Y-103-ND*	3296Z-103-ND*
20K	3296P-203-ND*	3296W-203-ND*	3296X-203-ND*	3296Y-203-ND*	3296Z-203-ND*
25K	3296P-253-ND	3296W-253-ND	3296X-253-ND	3296Y-253-ND	3296Z-253-ND
50K	3296P-503-ND*	3296W-503-ND*	3296X-503-ND*	3296Y-503-ND*	3296Z-503-ND*
100K	3296P-104-ND*	3296W-104-ND*	3296X-104-ND*	3296Y-104-ND*	3296Z-104-ND*
200K	3296P-204-ND*	3296W-204-ND*	3296X-204-ND*	3296Y-204-ND*	3296Z-204-ND*
250K	3296P-254-ND	3296W-254-ND	3296X-254-ND	3296Y-254-ND	3296Z-254-ND
500K	3296P-504-ND*	3296W-504-ND*	3296X-504-ND*	3296Y-504-ND*	3296Z-504-ND*
1M	3296P-105-ND*	3296W-105-ND*	3296X-105-ND*	3296Y-105-ND*	3296Z-105-ND*
2M	3296P-205-ND*	3296W-205-ND*	3296X-205-ND*	3296Y-205-ND*	3296Z-205-ND*
5M	3296P-505-ND	3296W-505-ND	3296X-505-ND	—	3296Z-505-ND

Series	Pricing 1	10	50
3296P/3296Z	2.70	24.50	105.35
3296W/3296X/3296Y	2.50	22.75	97.83

* **3296☐ -KIT-ND** ***Digi-Key® Series 3296 Trimmer Potentiometer Kit***
5 each of values denoted in series (75 total pieces). Notebook style case and bin storage guide included. For complete number, substitute corresponding letter (P,W,X,Y,Z) for ☐ **$139.00**

SERIES 3345 1/2" (12.70mm) Round/Single-Turn Wirewound/Industrial/Sealed

3345P

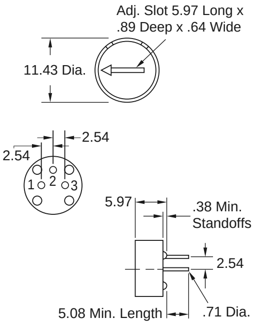

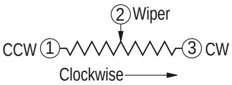

- Industrial wirewound.
- 1.0 watt power rating at 70°C. **Resistance Tolerance:** ±5% standard **Adjustment Angle:** 280° nominal **Power Rating:** 70°C — 1 watt; 150°C — 0 watt. **Temperature Range:** –55°C ~ 150°C. **Temperature Coefficient:** ±50ppm/°C. **Load Life:** 1,000 hours 1 watt @ 70°C. **Rotational Life:** 200 cycles (2% ΔTR; ENR, 500Ω). **Mechanical Angle:** 310° nominal **Torque:** 5.0 oz-inch maximum **Stop Strength:** 15 oz-inch minimum

Res. (Ω)	Digi-Key* Part No.	Nominal Resolution (Percent)
50	3345P-500-ND	0.58
100	3345P-101-ND	0.49
200	3345P-201-ND	0.49
500	3345P-501-ND	0.38
1K	3345P-102-ND	0.30
2K	3345P-202-ND	0.24
5K	3345P-502-ND	0.18
10K	3345P-103-ND	0.14
20K	3345P-203-ND	0.13

Series	Pricing 1	10	50
3345P	9.54	86.75	373.03

* **3345P-KIT-ND** ***Digi-Key® Series 3345 Trimmer Potentiometers Kit*** 5 each of all values (45 total pieces). Notebook style case and bin storage guide included.......................... **$199.95**

G

BOURNS Trimmer Potentiometers

SERIES 3057 1-1/4" (31.75mm) Rectangular/Multiturn (22) Wirewound/Industrial/Sealed

3057Y

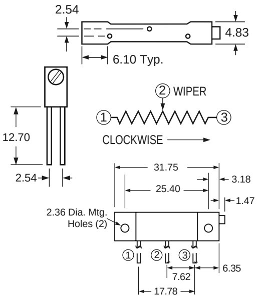

Resistance Tolerance: ±5% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum **Adjustment Travel:** 22 turns nominal **Power Rating:** 70°C - 1 watt; 150°C - 0 watt **Temperature Range:** -55°C ~ 150°C. **Temperature Coefficient:** ±50ppm/°C **Load Life:** 1,000 hours 1 watt @ 70°C (2% ΔTR) **Rotational Life:** 200 cycles (2% ΔTR) **Torque:** 5.0 oz-in. maximum **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
200	3057Y-201-ND	0.86
500	3057Y-501-ND	0.89
1K	3057Y-102-ND	0.72
2K	3057Y-202-ND	0.58
5K	3057Y-502-ND	0.43
10K	3057Y-103-ND	0.34
20K	3057Y-203-ND	0.31

Series	Pricing 1	10	50
3057Y	19.06	173.25	744.98

SERIES 3310 9mm Square Panel Control Conductive Plastic, Sealed

3310C

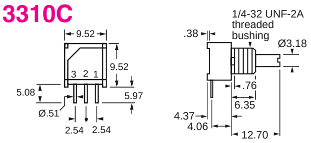

3310Y

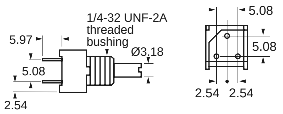

- Conductive plastic
- Linear
- PC board and bushing mount
- Plastic bushing and plastic shaft
- Withstands typical industrial washing processes
- Compact package saves board and panel space **Standard Resistance Range (Linear):** 1KΩ to 1MΩ **Total Resistance Tolerance (Linear Tapers):** ±20% **Independent Linearity:** ±5% **Absolute Minimum Resistance:** 2Ω maximum **Effective Electrical Angle:** 270° ±15° **Contact Resistance Variation:** 1% or 1Ω (whichever is greater) **Dielectric Withstanding Voltage: (Sea Level)** 900VAC minimum; **(70,000 Feet)** 350 VAC minimum **Insulation Resistance:** 1,000MΩ minimum **Power Rating @ 70°C:** (Derate to 0 at 125°C - Voltage limited by power dissipation or 200VAC, whichever is less) 0.25 watts **Stop Strength:** 5.65 nominal **Mechanical Angle:** 300° nominal **Torque (Running):** 3.53 nominal.
- **Mounting hardware included**

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
1K	3310C-001-102-ND	3310Y-001-102-ND
2K	3310C-001-202-ND	3310Y-001-202-ND
5K	3310C-001-502-ND	3310Y-001-502-ND
10K	3310C-001-103-ND	3310Y-001-103-ND
20K	3310C-001-203-ND	3310Y-001-203-ND
50K	3310C-001-503-ND	3310Y-001-503-ND
100K	3310C-001-104-ND	3310Y-001-104-ND
200K	3310C-001-204-ND	3310Y-001-204-ND
500K	3310C-001-504-ND	3310Y-001-504-ND
1M	3310C-001-105-ND	3310Y-001-105-ND

Series	Pricing 1	10	50
3310C/3310Y	2.56	22.63	94.90

SERIES 3252 1/2" (12.70mm) Square/Multiturn (25) Cermet/Industrial/Sealed

3252P

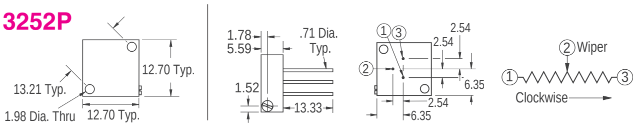

3252W

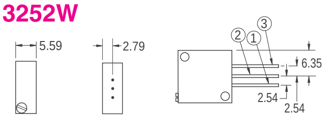

3252X

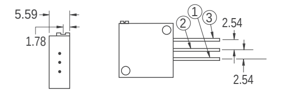

Resistance Tolerance: ±10% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum **Effective Travel:** 25 turns nominal **Power Rating** (400 volts maximum): 85°C — 0.75 watt; 150°C — 0 watt **Temperature Range:** –65°C ~ 150°C **Temperature Coefficient:** ±100ppm/°C **Load Life:** 1,000 hours 0.75 watt @ 85°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3Ω, whichever is greater) **Torque:** 5.0 oz-inch maximum **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3252P-101-ND*	3252W-101-ND*	3252X-101-ND*
200	3252P-201-ND	3252W-201-ND	—
500	3252P-501-ND*	3252W-501-ND*	3252X-501-ND*
1K	3252P-102-ND*	3252W-102-ND*	3252X-102-ND*
2K	3252P-202-ND	3252W-202-ND	3252X-202-ND
5K	3252P-502-ND*	3252W-502-ND*	3252X-502-ND*
10K	3252P-103-ND*	3252W-103-ND*	3252X-103-ND*
20K	3252P-203-ND	3252W-203-ND	3252X-203-ND
50K	3252P-503-ND*	3252W-503-ND*	3252X-503-ND*
100K	3252P-104-ND	3252W-104-ND	3252X-104-ND
200K	3252P-204-ND	3252W-204-ND	3252X-204-ND

Series	Pricing 1	10	50
3252P/3252W/3252X	14.44	131.25	564.38

* **3252-KIT-ND** ***Digi-Key® Series 3252 Trimmer Potentiometer Kit***
5 each of values denoted (90 total pieces). Notebook style kit box and bin storage guide included **$599.00**

SERIES 3262 1/4" (6.35mm) Square/Multiturn (12) Cermet/Industrial/Sealed

3262P

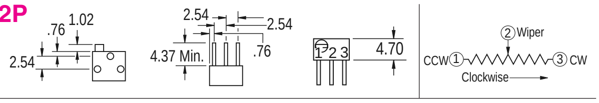

3262W

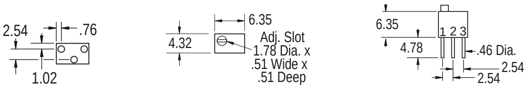

3262X

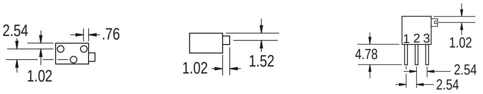

Resistance Tolerance: ±10% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum **Effective Travel:** 12 turns nominal **Power Rating:** (300 volts maximum) 85°C — 0.25 watt; 150°C — 0 watt **Temperature Range:** –65°C ~ 150°C **Temperature Coefficient:** ±100ppm/°C **Load Life:** 1,000 hours 0.25 watt @ 85°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) **Rotational Life:** 200 cycles (2% ΔTR; CRV, 3% or 3Ω, whichever is greater) **Torque:** 3.0 oz-inch maximum **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
10	3262P-100-ND	3262W-100-ND	3262X-100-ND
20	3262P-200-ND	3262W-200-ND	3262X-200-ND
50	3262P-500-ND	3262W-500-ND	3262X-500-ND
100	3262P-101-ND	3262W-101-ND	3262X-101-ND
200	3262P-201-ND	3262W-201-ND	3262X-201-ND
500	3262P-501-ND	3262W-501-ND	3262X-501-ND
1K	3262P-102-ND	3262W-102-ND	3262X-102-ND
2K	3262P-202-ND	3262W-202-ND	3262X-202-ND
5K	3262P-502-ND	3262W-502-ND	3262X-502-ND
10K	3262P-103-ND	3262W-103-ND	3262X-103-ND
20K	3262P-203-ND	3262W-203-ND	3262X-203-ND
25K	3262P-253-ND	3262W-253-ND	3262X-253-ND
50K	3262P-503-ND	3262W-503-ND	3262X-503-ND
100K	3262P-104-ND	3262W-104-ND	3262X-104-ND
200K	3262P-204-ND	3262W-204-ND	3262X-204-ND
250K	3262P-254-ND	3262W-254-ND	3262X-254-ND
500K	3262P-504-ND	3262W-504-ND	3262X-504-ND
1M	3262P-105-ND	3262W-105-ND	3262X-105-ND

Series	Pricing 1	10	50
3262P/3262W/3262X	14.30	130.00	559.00

SERIES 3006 3/4" (19.05mm) Rectangular/Multiturn (15) Cermet/Industrial/Sealed

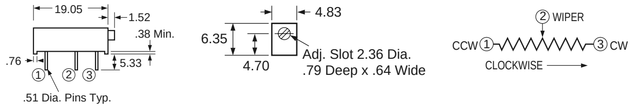

3006P

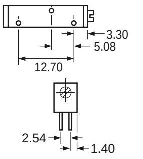

3006W

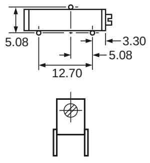

3006Y

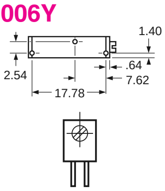

Resistance Tolerance: ±10% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum. **Adjustment Angle:** 15 turns nominal **Power Rating** (400 volts maximum): 70°C – 0.75 watt; 150°C – 0 watt **Temperature Range:** –55°C ~ 125°C **Temperature Coefficient:** ±100ppm/°C **Load Life:** 1,000 hours 0.75 watt @ 70°C (4% ΔTR) **Rotational Life:** 200 cycles (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) **Torque:** 5.0 oz-inch maximum **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3006P-101-ND*	3006W-101-ND	3006Y-101-ND
200	3006P-201-ND*	3006W-201-ND	3006Y-201-ND
500	3006P-501-ND*	3006W-501-ND	3006Y-501-ND
1K	3006P-102-ND*	3006W-102-ND	3006Y-102-ND
2K	3006P-202-ND*	3006W-202-ND	3006Y-202-ND
5K	3006P-502-ND*	3006W-502-ND	3006Y-502-ND
10K	3006P-103-ND*	3006W-103-ND	3006Y-103-ND
20K	3006P-203-ND*	3006W-203-ND	3006Y-203-ND
25K	3006P-253-ND*	3006W-253-ND	3006Y-253-ND
50K	3006P-503-ND*	3006W-503-ND	3006Y-503-ND
100K	3006P-104-ND*	3006W-104-ND	3006Y-104-ND
200K	3006P-204-ND*	3006W-204-ND	3006Y-204-ND
250K	3006P-254-ND	3006W-254-ND	3006Y-254-ND
500K	3006P-504-ND*	3006W-504-ND	3006Y-504-ND
1M	3006P-105-ND*	3006W-105-ND	3006Y-105-ND
2M	3006P-205-ND*	3006W-205-ND	3006Y-205-ND

Series	Pricing 1	10	50
3006P	1.73	15.75	67.73
3006W/3006Y	1.87	17.00	73.10

* **3006P-KIT-ND** ***Digi-Key® Series 3006 Potentiometers Kit***
10 each of values denoted (150 total pieces). Notebook style storage case & bin storage guide included **$159.00**

BOURNS Trimmer Potentiometers

SERIES 3306 6mm Round/Single-Turn Cermet/Industrial/Open Frame

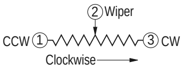

3306F

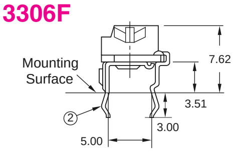

Suggested PCB Layout

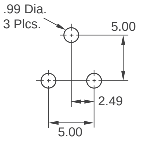

3306K

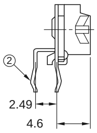

Suggested PCB Layout

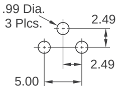

3306W

Adj. Cross Slot .79 Wide x 3.40 Long x 2.01 Deep

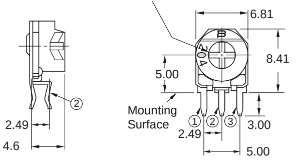

3306P

Suggested PCB Layout

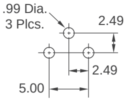

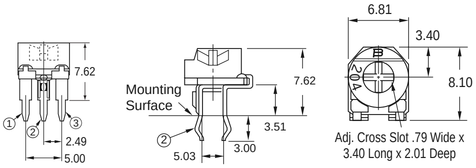

Adj. Cross Slot .79 Wide x 3.40 Long x 2.01 Deep

• Cross slot rotor design suitable for automatic adjustment equipment. • Board retention feature. • Dust resistant/splash resistant cover. • Front and top adjust styles. **Resistance Tolerance:** ±25% standard **Adjustment Angle:** 215° nominal **Power Rating** (100 volts maximum): 70°C — 0.2 watt **Temperature Range:** -25°C ~ 100°C **Temperature Coefficient:** ±250ppm/°C **Load Life:** 1,000 hours 0.2 watt @ 70°C (5% ΔTR) **Torque** (Operating): 4.5 oz-inch maximum **Stop Strength:** 6.5 oz-inch minimum

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3306F-101-ND	3306K-101-ND	3306P-101-ND	3306W-101-ND
200	3306F-201-ND	3306K-201-ND	3306P-201-ND	3306W-201-ND
500	3306F-501-ND	3306K-501-ND	3306P-501-ND	3306W-501-ND
1K	3306F-102-ND	3306K-102-ND	3306P-102-ND	3306W-102-ND
2K	3306F-202-ND	3306K-202-ND	3306P-202-ND	3306W-202-ND
5K	3306F-502-ND	3306K-502-ND	3306P-502-ND	3306W-502-ND
10K	3306F-103-ND	3306K-103-ND	3306P-103-ND	3306W-103-ND
20K	3306F-203-ND	3306K-203-ND	3306P-203-ND	3306W-203-ND
50K	3306F-503-ND	3306K-503-ND	3306P-503-ND	3306W-503-ND
100K	3306F-104-ND	3306K-104-ND	3306P-104-ND	3306W-104-ND
200K	3306F-204-ND	3306K-204-ND	3306P-204-ND	3306W-204-ND
500K	3306F-504-ND	3306K-504-ND	3306P-504-ND	3306W-504-ND
1M	3306F-105-ND	3306K-105-ND	3306P-105-ND	3306W-105-ND

	Pricing		
Series	1	10	100
3306F / 3306K / 3306P / 3306W	.71	5.30	49.50

SERIES 3266 1/4" (6.35mm) Square/Multiturn (12) Cermet/Industrial/Sealed

Resistance Tolerance: ±10% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum **Effective Travel:** 12 turns nominal **Power Rating (300 volts maximum):** 70°C - 0.25 watt; 150°C - 0 watt **Temperature Range:** –55°C ~ 125°C **Temperature Coefficient:** ±100ppm/°C **Load Life:** 1,000 hours 0.25 watt @ 70°C (3% ΔTR; CRV, 3%) **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater) **Torque:** 3.0 oz-in. maximum **Mechanical Stops:** Wiper idles

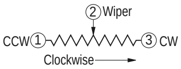

3266W

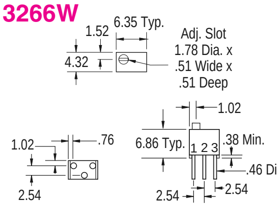

3266X

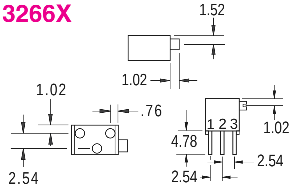

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
10	3266W-100-ND*	3266X-100-ND*
20	3266W-200-ND*	3266X-200-ND*
50	3266W-500-ND*	3266X-500-ND*
100	3266W-101-ND*	3266X-101-ND*
200	3266W-201-ND*	3266X-201-ND*
500	3266W-501-ND*	3266X-501-ND*
1K	3266W-102-ND*	3266X-102-ND*
2K	3266W-202-ND*	3266X-202-ND*
5K	3266W-502-ND*	3266X-502-ND*
10K	3266W-103-ND*	3266X-103-ND*
20K	3266W-203-ND*	3266X-203-ND*
25K	3266W-253-ND*	3266X-253-ND*
50K	3266W-503-ND*	3266X-503-ND*
100K	3266W-104-ND*	3266X-104-ND*
200K	3266W-204-ND*	3266X-204-ND*
250K	3266W-254-ND*	3266X-254-ND*
500K	3266W-504-ND*	3266X-504-ND*
1M	3266W-105-ND	3266X-105-ND

	Pricing		
Series	1	10	50
3266W/3266X	3.58	32.50	139.75

* **3266☐-KIT-ND** ***Digi-Key® Series 3266 Trimmer Potentiometer Kit***

5 each of all values in denoted series (85 total pieces). Notebook style storage case and bin storage guide included. For complete number, substitute corresponding letter (W,X) for ☐ **$199.00**

SERIES 3339 5/16" (7.95mm) Round/Four-Turn Cermet/Industrial/Sealed

3339P

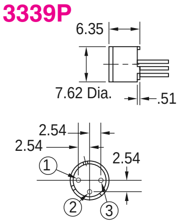

3339H

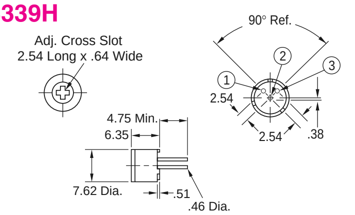

3339W

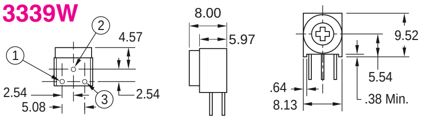

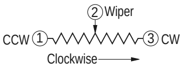

• Unique planetary drive offers precise wiper setting of a multiturn in a single-turn package size. • Top and side adjust styles. **Resistance Tolerance:** ±10% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum **Effective Travel:** 4 turns nominal **Power Rating** (300 volts maximum): 85°C — 0.5 watt; 150°C — 0 watt **Temperature Range:** –55°C ~ 150°C **Temperature Coefficient:** ±100 ppm/°C **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) **Rotational Life:** 200 cycles (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) **Torque:** 3.0 oz-inch maximum **Mechanical Stops:** Wiper idles

Res. (Ω)	Digi-Key Part No.	Digi-Key* Part No.	Digi-Key* Part No.
50	3339H-500-ND	3339P-500-ND	3339W-500-ND
100	3339H-101-ND	3339P-101-ND	3339W-101-ND
200	3339H-201-ND	3339P-201-ND	3339W-201-ND
500	3339H-501-ND	3339P-501-ND	3339W-501-ND
1K	3339H-102-ND	3339P-102-ND	3339W-102-ND
2K	3339H-202-ND	3339P-202-ND	3339W-202-ND
5K	3339H-502-ND	3339P-502-ND	3339W-502-ND
10K	3339H-103-ND	3339P-103-ND	3339W-103-ND
20K	3339H-203-ND	3339P-203-ND	3339W-203-ND
50K	3339H-503-ND	3339P-503-ND	3339W-503-ND
100K	3339H-104-ND	3339P-104-ND	3339W-104-ND
200K	3339H-204-ND	3339P-204-ND	3339W-204-ND
500K	3339H-504-ND	3339P-504-ND	3339W-504-ND
1M	3339H-105-ND	3339P-105-ND	3339W-105-ND

	Pricing		
Series	1	10	50
3339H/3339P	5.28	48.00	206.40
3339W	7.59	69.00	296.70

* **3339☐-KIT-ND** ***Digi-Key® Series 3339 Trimmer Potentiometers Kit***

5 each of all values in denoted series (70 total pieces). Notebook style case and bin storage guide included. For complete number, substitute corresponding letter (P,W) for ☐ **$269.00**

SERIES 3005 3/4" (19.05mm) Rectangular/Multiturn (20) Wirewound/Industrial/Sealed

3005P

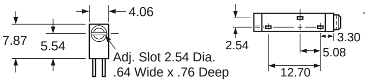

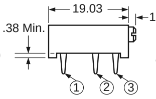

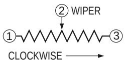

Sealed to prevent contamination from fluxing, soldering and cleaning. **Resistance Tolerance:** ±10% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum **Adjustment Travel:** 20 turns nominal **Power Rating:** 70°C — 1 watt; 125°C — 0 watt **Temperature Range:** –65°C ~ 125°C **Temperature Coefficient:** ±50ppm/°C **Load Life:** 1,000 hours 1 watt @ 70°C (3% ΔTR) **Rotational Life:** 200 cycles (4% ΔTR) **Torque:** 5.0 oz-inch maximum **Mechanical Stops:** Wiper idles

	Pricing		
Series	1	10	50
3005P	11.22	102.00	438.60

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
100	3005P-101-ND	0.8
200	3005P-201-ND	0.7
500	3005P-501-ND	0.5
1K	3005P-102-ND	0.5
2K	3005P-202-ND	0.4
5K	3005P-502-ND	0.3
10K	3005P-103-ND	0.3
20K	3005P-203-ND	0.2

SERIES 3250 1/2" (12.70mm) Square/Multiturn (25) Wirewound/Sealed

Resistance Tolerance: ±5% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum **Adjustment Travel:** 25 turns nominal **Power Rating:** 85°C – 1 watt; 150°C – 0 watt **Temperature Range:** –65°C ~ 150°C **Temperature Coefficient:** ±70 ppm/°C **Load Life:** 1,000 hours 1 watt @ 85°C (2% ΔTR; ENR, 500Ωs) **Rotational Life:** 200 cycles (2% ΔTR; ENR, 500Ω) **Torque:** 5.0 oz-inch maximum **Mechanical Stops:** Wiper idles

3250W

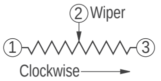

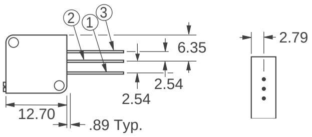

Res. (Ω)	Digi-Key Part No.	Nominal Resolution (Percent)
200	3250W-201-ND	0.70
500	3250W-501-ND	0.60
1K	3250W-102-ND	0.40
2K	3250W-202-ND	0.30
5K	3250W-502-ND	0.25
10K	3250W-103-ND	0.19
20K	3250W-203-ND	0.16

	Pricing		
Series	1	10	50
3250W	14.55	132.25	568.68

SERIES 3309 9mm Round/Single-Turn Cermet/Industrial/Open Frame

3309P

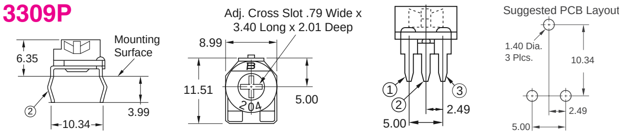

3309W

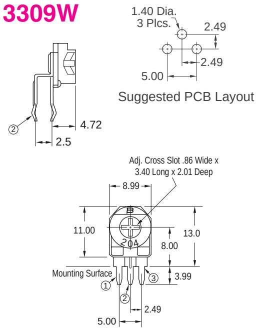

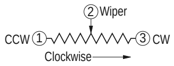

Resistance Tolerance: ±25% standard **Adjustment Angle:** 235° nominal **Power Rating** (250 volts maximum): 70°C — 0.5 watt **Temperature Range:** –25°C ~ 100°C **Temperature Coefficient:** ±250ppm/°C **Load Life:** 1,000 hours 0.5 watt @ 70°C (5% ΔTR). **Torque:** 5.0 oz-inch maximum **Stop Strength:** 11.0 oz-inch minimum

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	3309P-101-ND*	3309W-101-ND*
200	3309P-201-ND	3309W-201-ND
500	3309P-501-ND*	3309W-501-ND*
1K	3309P-102-ND*	3309W-102-ND*
2K	3309P-202-ND*	3309W-202-ND*
5K	3309P-502-ND*	3309W-502-ND*
10K	3309P-103-ND*	3309W-103-ND*
20K	3309P-203-ND*	3309W-203-ND*
50K	3309P-503-ND*	3309W-503-ND*
100K	3309P-104-ND*	3309W-104-ND*
200K	3309P-204-ND	3309W-204-ND
500K	3309P-504-ND	3309W-504-ND
1M	3309P-105-ND	3309W-105-ND

		Pricing	
Series	1	10	100
3309P / 3309W	.80	6.75	55.95

* **3309-KIT-ND** ***Digi-Key® Series 3309 Trimmer Potentiometers Kit***
10 each of values denoted (180 total pieces). Notebook style storage case and bin storage guide included **$69.95**

SERIES 3352 3/8" (9.52mm) Round/Single-Turn Cermet/Industrial/Open Frame

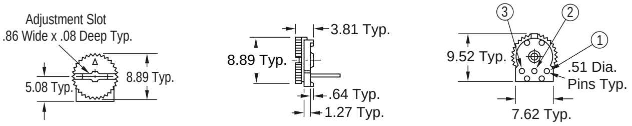

3352E

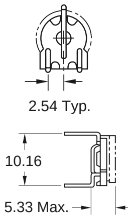

3352H

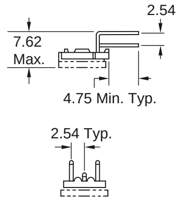

3352P

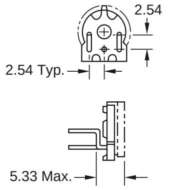

3352T

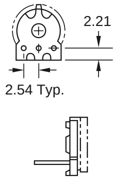

3352W

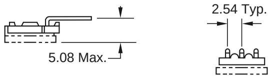

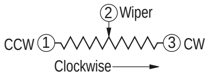

Resistance Tolerance: ±20% standard **Adjustment Angle:** 205° nominal **Power Rating** (250 volts maximum): 85°C — 0.5 watt; 125°C — 0 watt **Temperature Range:** –55°C ~ 125°C **Temperature Coefficient:** Below 2K — ±150ppm/°C; 2K & up — +100ppm/°C **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR) **Rotational Life:** 200 cycles (10% DTR) **Mechanical Angle:** 250° nominal **Torque:** 3.0 oz-inch maximum **Stop Strength:** 8 oz-inch minimum

Res. (Ω)	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.
100	3352E-101-ND	3352H-101-ND	3352P-101-ND	3352T-101-ND	3352W-101-ND
200	3352E-201-ND	3352H-201-ND	3352P-201-ND	3352T-201-ND	3352W-201-ND
500	3352E-501-ND	3352H-501-ND	3352P-501-ND	3352T-501-ND	3352W-501-ND
1K	3352E-102-ND	3352H-102-ND	3352P-102-ND	3352T-102-ND	3352W-102-ND
2K	3352E-202-ND	3352H-202-ND	3352P-202-ND	3352T-202-ND	3352W-202-ND
5K	3352E-502-ND	3352H-502-ND	3352P-502-ND	3352T-502-ND	3352W-502-ND
10K	3352E-103-ND	3352H-103-ND	3352P-103-ND	3352T-103-ND	3352W-103-ND
20K	3352E-203-ND	3352H-203-ND	3352P-203-ND	3352T-203-ND	3352W-203-ND
25K	3352E-253-ND	3352H-253-ND	3352P-253-ND	3352T-253-ND	3352W-253-ND
50K	3352E-503-ND	3352H-503-ND	3352P-503-ND	3352T-503-ND	3352W-503-ND
100K	3352E-104-ND	3352H-104-ND	3352P-104-ND	3352T-104-ND	3352W-104-ND
200K	3352E-204-ND	3352H-204-ND	3352P-204-ND	3352T-204-ND	3352W-204-ND
250K	3352E-254-ND	3352H-254-ND	3352P-254-ND	3352T-254-ND	3352W-254-ND
500K	3352E-504-ND	3352H-504-ND	3352P-504-ND	3352T-504-ND	3352W-504-ND
1M	3352E-105-ND	3352H-105-ND	3352P-105-ND	3352T-105-ND	3352W-105-ND

		Pricing	
Series	1	10	50
3352E / 3352H / 3352P / 3352T / 3352W	1.24	11.25	48.38

* **3352☐-KIT-ND** ***Digi-Key® Series 3352 Trimmer Potentiometers Kit***
5 each of all values in denoted series (75 total pieces). Notebook style kit box and bin storage guide included. For complete number, substitute corresponding letter (E,H,P,T,W,) for ☐.. **$49.95**

SERIES 3329 1/4" (6.35mm) Round/Single-Turn Cermet/Industrial/Sealed

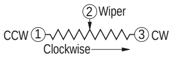

3329H

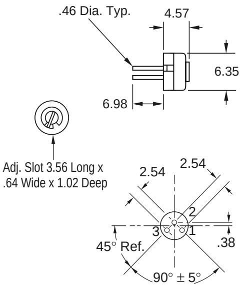

3329P

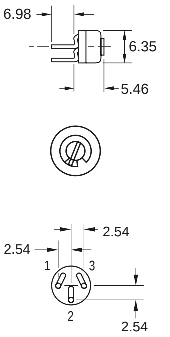

3329S

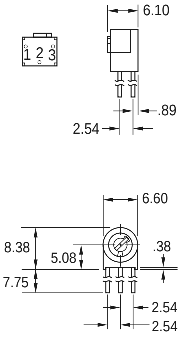

3329W

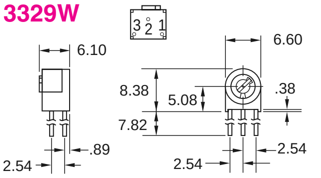

3329X

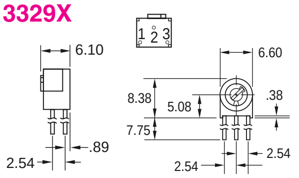

Resistance Tolerance: ±10% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum **Adjustment Angle:** 240° nominal **Power Rating** (300 volts maximum): 85°C — 0.5 watt; 150°C — 0 watt **Temperature Range:** –55°C ~ 150°C **Temperature Coefficient:** ±100 ppm/°C **Load Life:** 1,000 hours 0.5 watt @ 85°C (3% ΔTR; CRV, 3%) **Rotational Life:** 200 cycles (4% ΔTR; CRV, 4%) **Mechanical Angle:** 260° nominal **Torque:** 5.0 oz-inch maximum **Stop Strength:** 5.0 oz-inch minimum

Res. (Ω)	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.	Digi-Key* Part No.
50	3329H-500-ND	3329P-500-ND	3329S-500-ND	3329W-500-ND	3329X-500-ND
100	3329H-101-ND	3329P-101-ND	3329S-101-ND	3329W-101-ND	3329X-101-ND
200	3329H-201-ND	3329P-201-ND	3329S-201-ND	3329W-201-ND	3329X-201-ND
500	3329H-501-ND	3329P-501-ND	3329S-501-ND	3329W-501-ND	3329X-501-ND
1K	3329H-102-ND	3329P-102-ND	3329S-102-ND	3329W-102-ND	3329X-102-ND
2K	3329H-202-ND	3329P-202-ND	3329S-202-ND	3329W-202-ND	3329X-202-ND
5K	3329H-502-ND	3329P-502-ND	3329S-502-ND	3329W-502-ND	3329X-502-ND
10K	3329H-103-ND	3329P-103-ND	3329S-103-ND	3329W-103-ND	3329X-103-ND
20K	3329H-203-ND	3329P-203-ND	3329S-203-ND	3329W-203-ND	3329X-203-ND
50K	3329H-503-ND	3329P-503-ND	3329S-503-ND	3329W-503-ND	3329X-503-ND
100K	3329H-104-ND	3329P-104-ND	3329S-104-ND	3329W-104-ND	3329X-104-ND
200K	3329H-204-ND	3329P-204-ND	3329S-204-ND	3329W-204-ND	3329X-204-ND
500K	3329H-504-ND	3329P-504-ND	3329S-504-ND	3329W-504-ND	3329X-504-ND
1M	3329H-105-ND	3329P-105-ND	3329S-105-ND	3329W-105-ND	3329X-105-ND

		Pricing	
Series	1	10	50
3329H/3329P	2.61	23.75	102.13
3329S/3329W/3329X	3.14	28.50	122.55

* **3329☐-KIT-ND** ***Digi-Key® Series 3329 Trimmer Potentiometers Kit***
5 each of all values in denoted series (70 total pieces). Notebook style kit case and bin storage guide included. For complete number, substitute corresponding letter (H,P,S,W,X) for ☐.. **$129.95**

SERIES 3059 1-1/4" (31.75mm) Rectangular/Multiturn (22) Cermet/Industrial/Sealed

3059P

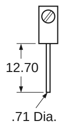

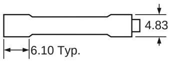

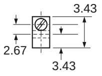

Resistance Tolerance: ±10% standard **Insulation Resistance:** 500VDC 1,000MΩ minimum **Effective Travel:** 22 turns nominal **Power Rating:** 70°C — 1 watt; 150°C — 0 watt **Temperature Range:** –55°C ~ 150°C **Temperature Coefficient:** ±100ppm/°C **Load Life:** 1,000 hours 1 watt @ 70°C (3% ΔTR; CRV, 1% or 1Ω, whichever is greater) **Rotational Life:** 200 cycles (2% ΔTR; CRV, 1% or 1Ω, whichever is greater) **Torque:** 5.0 oz-inch maximum **Mechanical Stops:** Wiper idles

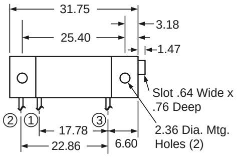

3059Y

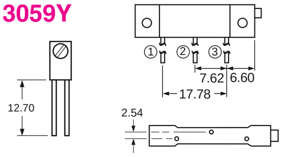

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	3059P-101-ND	3059Y-101-ND
200	3059P-201-ND	3059Y-201-ND
500	3059P-501-ND	3059Y-501-ND
1K	3059P-102-ND	3059Y-102-ND
2K	3059P-202-ND	3059Y-202-ND
5K	3059P-502-ND	3059Y-502-ND
10K	3059P-103-ND	3059Y-103-ND
20K	3059P-203-ND	3059Y-203-ND
50K	3059P-503-ND	3059Y-503-ND
100K	3059P-104-ND	3059Y-104-ND
200K	3059P-204-ND	3059Y-204-ND
500K	3059P-504-ND	3059Y-504-ND
1M	3059P-105-ND	3059Y-105-ND

		Pricing	
Series	1	10	50
3059P/3059Y	6.49	59.00	253.70

Trimmer Potentiometers

SERIES 3314

SMD 4mm Square/Single-Turn Cermet/Industrial/Sealed

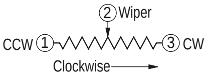

3314G

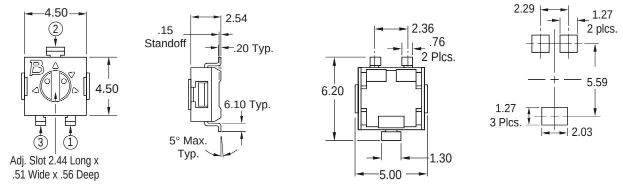

3314J

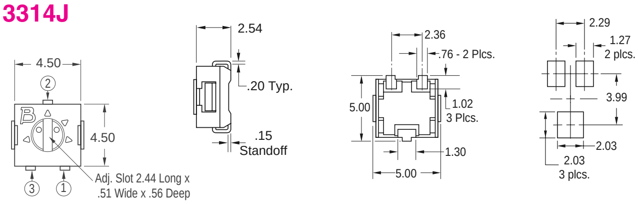

3314S-3

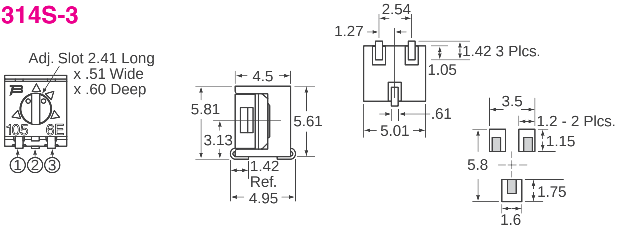

3314Z

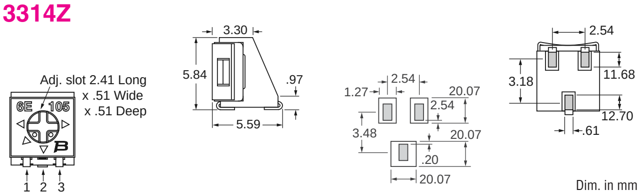

FEATURES:

• Compatible with all surface mount soldering processes • Very low CRV — 1% • Standoffs facilitate boardwashing and mechanical stability

CHARACTERISTICS:

Resistance Tolerance: ±20% standard • **Insulation Resistance:** 500VDC 100MΩ minimum • **Adjustment Angle:** 210° nominal • **Soldering Heat:** 260°C, 10 seconds, TRS ±1% • **Power Rating** (300V maximum): 70°C = 0.25W; 125°C = 0W • **Temperature Range:** –55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C • **Load Life:** (@ 70°C Rated Power 1,000 hours) TRS ±3% **Rotational Life:** 100 cycles TRS ±3% • **Mechanical Angle:** 240° nominal • **Torque:** 180g-cm. typical • **Stop Strength:** 300g-cm. typical

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	3314G-101E□□-ND	3314J-101E□□-ND	3314S-3-101E□□-ND	3314Z-101E□□-ND
200	3314G-201E□□-ND	3314J-201E□□-ND	3314S-3-201E□□-ND	3314Z-201E□□-ND
500	3314G-501E□□-ND	3314J-501E□□-ND	3314S-3-501E□□-ND	3314Z-501E□□-ND
1K	3314G-102E□□-ND	3314J-102E□□-ND	3314S-3-102E□□-ND	3314Z-102E□□-ND
2K	3314G-202E□□-ND	3314J-202E□□-ND	3314S-3-202E□□-ND	3314Z-202E□□-ND
5K	3314G-502E□□-ND	3314J-502E□□-ND	3314S-3-502E□□-ND	3314Z-502E□□-ND
10K	3314G-103E□□-ND	3314J-103E□□-ND	3314S-3-103E□□-ND	3314Z-103E□□-ND
20K	3314G-203E□□-ND	3314J-203E□□-ND	3314S-3-203E□□-ND	3314Z-203E□□-ND
25K	3314G-253E□□-ND	3314J-253E□□-ND	3314S-3-253E□□-ND	3314Z-253E□□-ND
50K	3314G-503E□□-ND	3314J-503E□□-ND	3314S-3-503E□□-ND	3314Z-503E□□-ND
100K	3314G-104E□□-ND	3314J-104E□□-ND	3314S-3-104E□□-ND	3314Z-104E□□-ND
200K	3314G-204E□□-ND	3314J-204E□□-ND	3314S-3-204E□□-ND	3314Z-204E□□-ND
250K	3314G-254E□□-ND	3314J-254E□□-ND	3314S-3-254E□□-ND	3314Z-254E□□-ND
500K	3314G-504E□□-ND	3314J-504E□□-ND	3314S-3-504E□□-ND	3314Z-504E□□-ND
1M	3314G-105E□□-ND	3314J-105E□□-ND	3314S-3-105E□□-ND	3314Z-105E□□-ND
2M	3314G-205E□□-ND	3314J-205E□□-ND	3314S-3-205E□□-ND	3314Z-205E□□-ND

Series	Part No.	Cut Tape Pricing 5	100	Part No.	Tape & Reel Pricing 200	500
3314G/3314J	Add “CT-ND”	9.00	156.00	Add “TR-ND”	—	489.00
3314S-3	Add “CT-ND”	9.90	171.60	Add “TR-ND”	244.20	—
3314Z	Add “CT-ND”	9.90	171.60	Add “TR-ND”	244.20	—

SERIES 3214

Surface Mount 4mm Square/ Multi-Turn Cermet/Industrial/Sealed

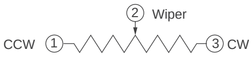

3214J

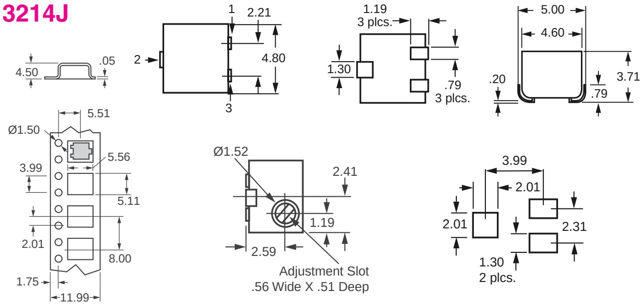

3214W

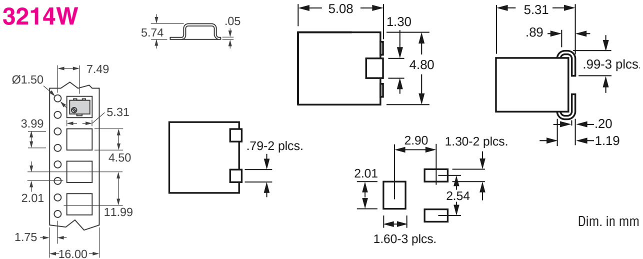

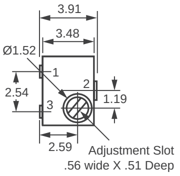

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	3214J-101E□□-ND	3214W-101E□□-ND
200	3214J-201E□□-ND	3214W-201E□□-ND
500	3214J-501E□□-ND	3214W-501E□□-ND
1K	3214J-102E□□-ND	3214W-102E□□-ND
2K	3214J-202E□□-ND	3214W-202E□□-ND
5K	3214J-502E□□-ND	3214W-502E□□-ND
10K	3214J-103E□□-ND	3214W-103E□□-ND
20K	3214J-203E□□-ND	3214W-203E□□-ND
50K	3214J-503E□□-ND	3214W-503E□□-ND
100K	3214J-104E□□-ND	3214W-104E□□-ND

FEATURES:

• Sealed to withstand board wash processing • Pick and place centering design, with flush adjustment • Patent #5047746 advanced drive/wiper mechanism

CHARACTERISTICS:

Resistance Tolerance: ±10% standard • **Absolute Minimum Resistance:** 1% or 2.0Ω (whichever is greater) • **Contact Resistance Variation:** 3% or 3Ω maximum • **Resolution:** Essentially Infinite • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Dielectric Strength:** ***Sea Level:*** 600VAC (1 minute) • **Adjustment Angle:** 5 turns nominal • **Power Rating (300V max.):** 85°C = 0.25W, 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Humidity:** MIL-STD 202 Method 106, TRS ±2%; IR 10MΩ • **Load Life (@ 85°C Rated Power 1000 Hours):** TRS 3Ω or 3% (whichever is greater) • **Vibration:** 20G TRS ±1%; VRS ±1% • **Shock:** 100G TRS ±1%; VRS ±1% • **Rotational Cycling:** 200 cycles, TRS 3Ω or 3% (whichever is greater) • **Thermal Shock:** 5 cycles, TRS ±2%; VRS ±1% • **Mechanical Stop:** Wiper idles • **Torque:** 180g-cm maximum • **Weight:** Approximately 0.01 oz. • **Marking:** Manufacturer’s code, resistance code and date code • **Solderability:** Per MIL-STD-202, Method 208 **Wiper:** Set at 50% nominal • **Flammability:** UL94V0

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 250	500
3214J	Add “CT-ND”	3.22	27.60	239.20	Add “TR-ND”	—	750.00
3214W	Add “CT-ND”	3.22	27.60	239.20	Add “TR-ND”	414.00	750.00

SERIES TC73

Surface Mount 3mm Single-Turn Top Adjust Carbon

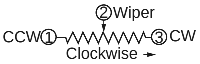

TC73X

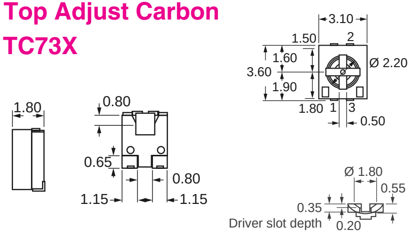

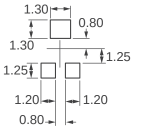

Dim. in mm

CHARACTERISTICS:

Resistance Tolerance: ±30% • **Adjustment Angle:** 260° • **Power Rating:** .05W • **Temperature Range:** -25°C ~ 85°C • **Temperature Coefficient:** ±250 ppm/°C • **Rotational Life:** 20 turns • **Rotational Torque:** 10-150g-cm maximum

Res. (Ω)	Digi-Key Part No.
500	TC73X-501E□□-ND
1K	TC73X-102E□□-ND
2K	TC73X-202E□□-ND
5K	TC73X-502E□□-ND
10K	TC73X-103E□□-ND
20K	TC73X-203E□□-ND

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 2,000
TC73X	Add “CT-ND”	.20	1.65	14.40	Add “TR-ND”	100.00/M

BOURNS Trimmer Potentiometers

SERIES 3224

SMT 4mm Multi-Turn (11) Top Adjust/Cermet

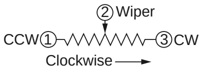

3224W

Dim. in mm

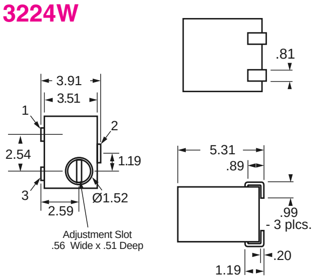

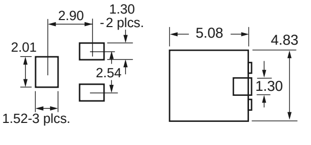

Res. (Ω)	Digi-Key Part No.
2K	3224W-202E□□-ND
5K	3224W-502E□□-ND
10K	3224W-103E□□-ND
20K	3224W-203E□□-ND

CHARACTERISTICS:

Resistance Tolerance: ±10% standard • **Absolute Minimum Resistance:** 1% or 2Ω (whichever is greater) • **Contact Resistance Variation:** 1% or 3Ω maximum • **Resolution:** Essentially Infinite • **Insulation Resistance:** 500VDC, 100MΩ minimum • **Dielectric Strength:** ***Sea Level:*** 600VAC (1 minute), **Adjustment Angle:** 11 turns nominal • **Power Rating (300V maximum):** 85°C = 0.25W, 150°C = 0W • **Temperature Range:** –65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Humidity:** MIL-STD 202 Method 106, TRS ±2%; IR 10MΩ • **Vibration:** 20G TRS ±1%, VRS ±1% • **Shock:** 100G TRS ±1%, VRS ±1% • **Load Life (@ 85°C Rated Power 1000 Hours):** TRS 3Ω or 3% (whichever is greater) • **Thermal Shock:** 5 cycles, TRS ±2%, VRS ±1% • **Mechanical Stop:** Wiper idles • **Torque:** 180g-cm maximum • **Weight:** Approximately 0.01 oz. • **Marking:** Manufacturer's code, resistance code and date code

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 250
3224W	Add “CT-ND”	5.22	44.70	387.40	Add “TR-ND”	670.50

SERIES 3361

1/4" (6.35mm) Square SMD/ Single-Turn Cermet/ Industrial/ Sealed

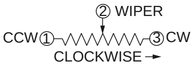

3361P

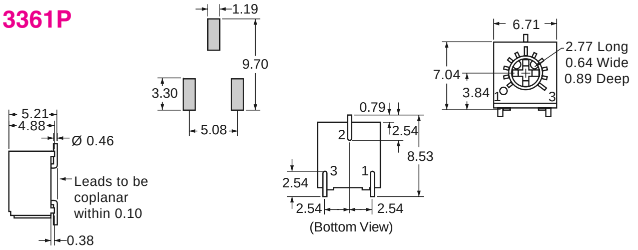

3361S

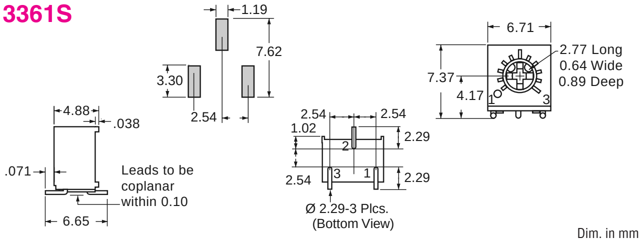

Dim. in mm

CHARACTERISTICS:

Resistance Tolerance: ±10% standard • **Insulation Resistance:** 500VDC 1,000MΩ minimum • **Adjustment Angle:** 240° nominal • **Power Rating** (300V maximum): 70°C = 0.50W; 125°C = 0W • **Temperature Range:** -55°C ~ 125°C • **Temperature Coefficient:** ±100ppm/°C **Load Life:** 1,000 hours 0.5W @ 70°C (3% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Rotational Life:** 200 cycles (4% ΔTR; CRV, 3% or 3Ω, whichever is greater) • **Mechanical Angle:** 270° nominal • **Torque:** 3.0 oz-in. maximum • **Stop Strength:** 7.0 oz-in. minimum

Res. (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	3361P-101G□□-ND	3361S-101G□□-ND
200	3361P-201G□□-ND	3361S-201G□□-ND
500	3361P-501G□□-ND	3361S-501G□□-ND
1K	3361P-102G□□-ND	3361S-102G□□-ND
2K	3361P-202G□□-ND	3361S-202G□□-ND
5K	3361P-502G□□-ND	3361S-502G□□-ND
10K	3361P-103G□□-ND	3361S-103G□□-ND
20K	3361P-203G□□-ND	3361S-203G□□-ND
50K	3361P-503G□□-ND	3361S-503G□□-ND
100K	3361P-104G□□-ND	3361S-104G□□-ND

Series	Part No.	Cut Tape Pricing 1	10	50	Part No.	Tape & Reel Pricing 500	750
3361P	Add “CT-ND”	1.02	9.25	44.40	Add “TR-ND”	_	486.00
3361S	Add “CT-ND”	1.02	9.25	44.40	Add “TR-ND”	324.00	—

SERIES 3223

Surface Mount 3mm Multi-Turn (11) Cermet/ Industrial/ Sealed

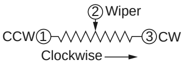

3223W

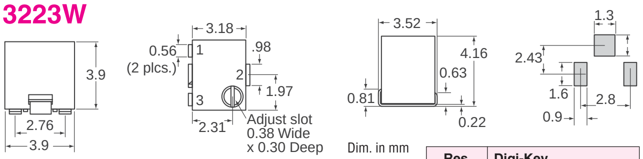

Dim. in mm

FEATURES: • Surface Mount 3mm Square/ Multi-turn Cermet/ Industrial/ Sealed • Sealed to withstand standard board wash processing • Pick and place centering design for automated placement compatibility • Flush adjustment screw • Top adjust

CHARACTERISTICS: • **Resistance Tolerance:** ±20% standard • **Absolute Minimum Resistance:** 1% or 3Ω maximum (whichever is greater) • **Contact Resistance Variation:** 3% or 3Ω maximum (whichever is greater) • **Resolution:** Essentially Infinite. **Insulation Resistance:** 500VDC, 100MΩ minimum • **Adjustment Angle:** 11 turns nominal • **Power Rating (200V maximum):** 70°C = 0.125W, 150°C = 0W • **Temperature Range:** -65°C ~ 150°C • **Temperature Coefficient:** ±100ppm/°C • **Vibration:** 20G TRS ±1%, VRS ±1% • **Shock:** 100G TRS ±1%, VRS ±1% • **Load Life (@ 70°C Rated Power 1000 Hours):** CRV 4Ω or 4% (whichever is greater) • **Rotational Cycling:** 200 cycles, CRV 4Ω or 4% (whichever is greater) • **Thermal Shock:** 5 cycles, TRS ±2%, VRS ±2%

Res. (Ω)	Digi-Key Part No.
10	3223W-1-100E□□-ND
20	3223W-1-200E□□-ND
50	3223W-1-500E□□-ND
100	3223W-1-101E□□-ND
200	3223W-1-201E□□-ND
500	3223W-1-501E□□-ND
1K	3223W-1-102E□□-ND
2K	3223W-1-202E□□-ND
5K	3223W-1-502E□□-ND
10K	3223W-1-103E□□-ND
50K	3223W-1-503E□□-ND
100K	3223W-1-104E□□-ND
200K	3223W-1-204E□□-ND
500K	3223W-1-504E□□-ND
1M	3223W-1-105E□□-ND
2M	3223W-1-205E□□-ND

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 500
3223W	Add “CT-ND”	3.85	33.00	286.00	Add “TR-ND”	896.50

SERIES 3364

SMD 4mm Square/ Single-Turn Cermet/ Industrial/ Open Frame

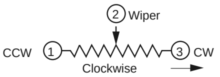

3364W and X

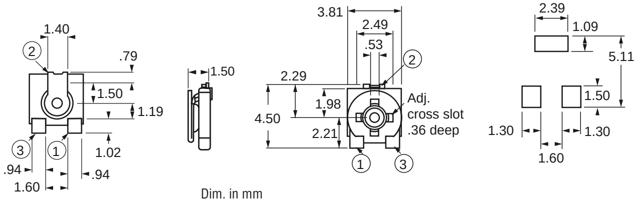

Dim. in mm

Cross-slot rotor designs suitable for automatic adjustment equipment. Supplied in 12mm embossed tape, compatible with automatic pick-and-place assembly equipment. Rear adjust versions available.

CHARACTERISTICS: • **Resistance Tolerance:** ±25% standard • **Adjustment Angle:** 260°±20° • **Power Rating** (50V maximum): 70°C = 0.2W • **Temperature Range:** -40°C ~100°C • **Temperature Coefficient:** ±250ppm/°C • **Load Life:** 1,000 hours 0.2W @ 70°C (5% ΔTR) • **Rotational Life:** 20 cycles (15% ΔTR) • **Torque:** 20 ~ 200g-cm. • **Mechanical Angle:** Continuous

Res. (Ω)	Digi-Key* Part No.	Digi-Key Part No.
500	3364W-501E□□-ND	3364X-501E□□-ND
1K	3364W-102E□□-ND	3364X-102E□□-ND
2K	3364W-202E□□-ND	3364X-202E□□-ND
5K	3364W-502E□□-ND	3364X-502E□□-ND
10K	3364W-103E□□-ND	3364X-103E□□-ND
20K	3364W-203E□□-ND	3364X-203E□□-ND
50K	3364W-503E□□-ND	3364X-503E□□-ND
100K	3364W-104E□□-ND	3364X-104E□□-ND
200K	3364W-204E□□-ND	3364X-204E□□-ND
500K	3364W-504E□□-ND	3364X-504E□□-ND
1M	3364W-105E□□-ND	3364X-105E□□-ND

Series	Part No.	Cut Tape Pricing 5	100	Part No.	Tape & Reel Pricing 1,000
3364W/3364X	Add “CT”-ND	4.23	56.55	Add “TR”-ND	321.00

* **3364W-KIT-ND** ***Digi-Key® Series 3364W Trimmer Potentiometers Kit*** 5 each of all values (55 total pieces)..........**$35.95**

SERIES TC03

Surface Mount 3mm Single-Turn Top Adjust Cermet

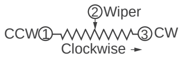

TC03X

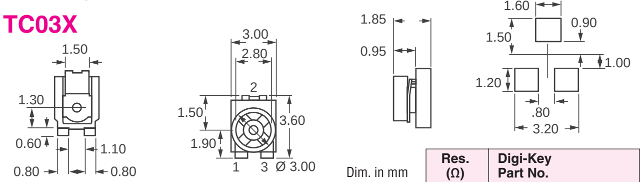

Dim. in mm

CHARACTERISTICS:

Resistance Tolerance: ± 25% • **Adjustment Angle:** 270° • **Power Rating:** 0.1W • **Temperature Range:** -40°C ~ 85°C • **Temperature Coefficient:** ±250ppm/°C • **Rotational Life:** 20 turns • **Rotational Torque:** 20-200g-cm. maximum

Res. (Ω)	Digi-Key Part No.
100	TC03X-101E□□-ND
1K	TC03X-102E□□-ND
2K	TC03X-202E□□-ND
5K	TC03X-502E□□-ND
10K	TC03X-103E□□-ND
20K	TC03X-203E□□-ND

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 2,000
TC03X	Add “CT-ND”	.20	1.65	14.40	Add “TR-ND”	100.00/M

Trimmer Potentiometers

SERIES 3318 6mm Square/Single-Turn/Carbon/Open Frame

3318G

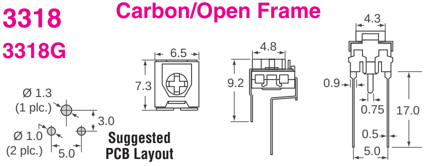

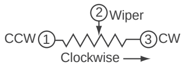

Res. (Ω)	Digi-Key Part No.
10K	3318G-103A□□-ND
20K	3318G-203A□□-ND
50K	3318G-503A□□-ND

3318F — Single-Turn/Carbon/ Commercial Open Frame

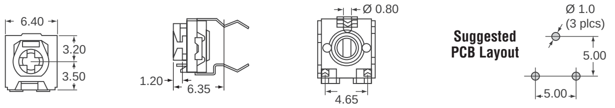

3318K — Single-Turn/ Carbon/ Commercial Open Frame

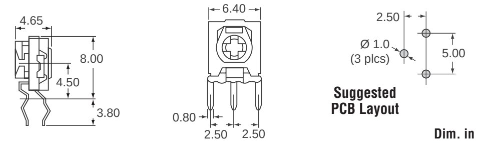

Dim. in mm

3318G CHARACTERISTICS: • **Resistance Tolerance:** ±20% • **Contact Resistance Variation:** 10% maximum • **Resolution:** Infinite • **Adjustment Angle:** 210° ±15° • **Power Rating:** 0.1W • **Temperature Range:** -10°C ~ 70°C • **Temperature Coefficient:** ±1,000ppm/°C • **Package:** Ammo Pak

3318F and 3318K CHARACTERISTICS: • **Resistance Tolerance:** ±30% • **Contact Resistance Variation:** 10% maximum • **Resolution:** Infinite • **Adjustment Angle:** 210° ±20° • **Power Rating:** 100-500KΩ = 50V; >500KΩ = 25V; 50°C = 0.1W • **Temperature Range:** -25°C ~ 100°C • **Temperature Coefficient:** ±1,000ppm/°C

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Box Pricing 1,000
3318G	Add "CT-ND"	.43	3.09	22.80	Add "TB-ND"	133.00

Series	Resistance (Ω)	Digi-Key Part No.	Pricing 1	10	50
3318F	500	3318F-501-ND	.34	2.44	10.69
3318F	2K	3318F-202-ND	.34	2.44	10.69
3318K	10K	3318K-103-ND	.34	2.44	10.69

SERIES 3319 9mm Round/Single-Turn/Carbon/Open Frame

3319P-1 — Top Adjust

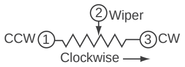

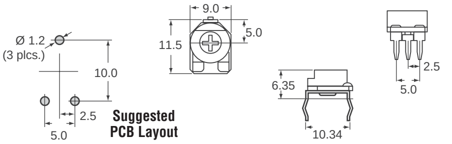

3319W-1 — Side Adjust

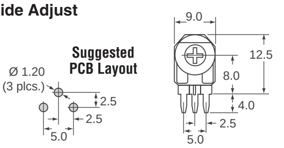

3319W-2 — Both Sides Adjust/Cross Slot

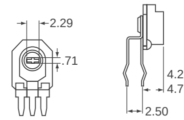

For Both 3319W-1 and 3319W-2

Dim. in mm

CHARACTERISTICS: • **Resistance Tolerance:** ±25% standard • **Contact Resistance Variation:** 3% maximum • **Resolution:** Infinite • **Adjustment Angle:** 235° nominal • **Power Rating (200V maximum):** 70°C = 0.2W • **Temperature Range:** -25°C ~ 100°C • **Temperature Coefficient:** ±1,000ppm/°C

Series	Resistance (Ω)	Digi-Key Part No.	Pricing 1	10	50
3319P-1	100	3319P-101-ND	.41	2.93	12.83
	200	3319P-201-ND	.41	2.93	12.83
	1K	3319P-102-ND	.41	2.93	12.83
	5K	3319P-502-ND	.41	2.93	12.83
	10K	3319P-103-ND	.41	2.93	12.83
	100K	3319P-104-ND	.41	2.93	12.83
	200K	3319P-204-ND	.41	2.93	12.83
3319W-1	10K	3319W-1-103-ND	.36	2.60	11.40
3319W-2	5K	3319W-502-ND	.36	2.60	11.40
	10K	3319W-103-ND	.36	2.60	11.40
	100K	3319W-104-ND	.36	2.60	11.40

SERIES TC89

9mm Round/Single-Turn/Cermet/Industrial/Open Frame

TC89P — Top Adjust

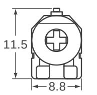

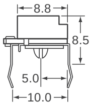

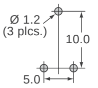

Suggested PCB Layout

Dim. in mm

CHARACTERISTICS: • **Resistance Tolerance:** ±20% standard • **Contact Resistance Variation:** 5% maximum • **Resolution:** Infinite • **Adjustment Angle:** 270° ±15° • **Power Rating (250VDC maximum):** 70°C = 0.5W • **Temperature Range:** -30°C ~ 100°C • **Temperature Coefficient:** ±250ppm/°C • RoHS compliant

TC89W — Side Adjust

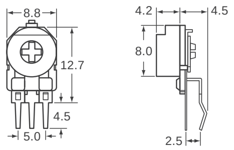

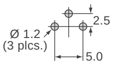

Suggested PCB Layout

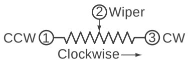

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.
100	TC89P-101-ND	TC89W-101-ND
200	TC89P-201-ND	TC89W-201-ND
500	TC89P-501-ND	TC89W-501-ND
1K	TC89P-102-ND	TC89W-102-ND
2K	TC89P-202-ND	TC89W-202-ND
5K	TC89P-502-ND	TC89W-502-ND
10K	TC89P-103-ND	TC89W-103-ND
20K	TC89P-203-ND	TC89W-203-ND
50K	TC89P-503-ND	TC89W-503-ND
100K	TC89P-104-ND	TC89W-104-ND
200K	TC89P-204-ND	TC89W-204-ND
500K	TC89P-504-ND	TC89W-504-ND
1M	TC89P-105-ND	TC89W-105-ND

Series	Pricing 1	10	100
TC89P/TC89W	.29	2.40	21.60

SERIES TC86

6mm Round/Single-Turn/Cermet/Industrial/Open Frame

Dim. in mm

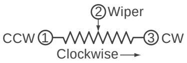

TC86P

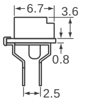

TC86F

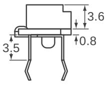

Top Adjust

TC86W

TC86K

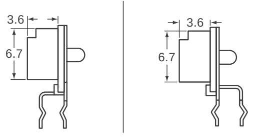

Side Adjust

Common Dimensions

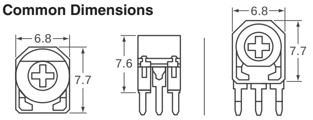

Top Adjust Side Adjust

Suggested PCB Layouts

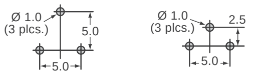

Style F Styles P, W, K

CHARACTERISTICS: • **Resistance Tolerance:** ±20% standard • **Contact Resistance Variation:** 5% maximum • **Resolution:** Infinite • **Adjustment Angle:** 240° ±20° • **Power Rating (100VDC maximum):** 70°C = 0.3W • **Temperature Range:** -30°C ~ 85°C • **Temperature Coefficient:** ±250ppm/°C • RoHS compliant

Resistance (Ω)	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.	Digi-Key Part No.
100	TC86P-101-ND	TC86F-101-ND	TC86W-101-ND	TC86K-101-ND
200	TC86P-201-ND	TC86F-201-ND	TC86W-201-ND	TC86K-201-ND
500	TC86P-501-ND	TC86F-501-ND	TC86W-501-ND	TC86K-501-ND
1K	TC86P-102-ND	TC86F-102-ND	TC86W-102-ND	TC86K-102-ND
2K	TC86P-202-ND	TC86F-202-ND	TC86W-202-ND	TC86K-202-ND
5K	TC86P-502-ND	TC86F-502-ND	TC86W-502-ND	TC86K-502-ND
10K	TC86P-103-ND	TC86F-103-ND	TC86W-103-ND	TC86K-103-ND
20K	TC86P-203-ND	TC86F-203-ND	TC86W-203-ND	TC86K-203-ND
50K	TC86P-503-ND	TC86F-503-ND	TC86W-503-ND	TC86K-503-ND
100K	TC86P-104-ND	TC86F-104-ND	TC86W-104-ND	TC86K-104-ND
200K	TC86P-204-ND	TC86F-204-ND	TC86W-204-ND	TC86K-204-ND
500K	TC86P-504-ND	TC86F-504-ND	TC86W-504-ND	TC86K-504-ND
1M	TC86P-105-ND	TC86F-105-ND	TC86W-105-ND	TC86K-105-ND

Series	Pricing 1	10	100
TC86P/TC86F/TC86W/TC86K	.23	1.90	17.10

SERIES TC33X — 3mm SMD Trimming Potentiometer

Res. (Ω)	Digi-Key Part No.
100	TC33X-101E□□-ND
1K	TC33X-102E□□-ND
2K	TC33X-202E□□-ND
5K	TC33X-502E□□-ND
10K	TC33X-103E□□-ND
50K	TC33X-503E□□-ND
100K	TC33X-104E□□-ND

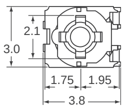

Recommended Land Pattern

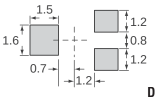

Dim. in mm

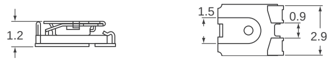

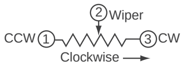

CHARACTERISTICS: • **Resistance Tolerance:** ±25% standard • **Contact Resistance Variation:** 5% maximum • **Resolution:** Essentially Infinite • **Adjustment Angle:** 260° ±20° • **Power Rating (50VDC maximum):** 70°C = 0.1W • **Temperature Range:** -40°C ~ 120°C • **Temperature Coefficient:** ±250ppm/°C

Series	Part No.	Cut Tape Pricing 1	10	100	Part No.	Tape & Reel Pricing 2,500
TC33X	Add "CT-ND"	.20	1.65	14.40	Add "TR-ND"	90.00/M

CTS® Two Axis, Ministick (Joystick) Controller

Series 252

SPECIFICATIONS: **Controller without Switch:** **Resistance Tolerance:** Standard: ±20% **Resistance Taper:** Linear ±5% **Insulation Resistance:** 100MΩ minimum @ 250VDC **Rotational Torque:** 153 ±102 gf-cm **Power Rating:** 0.01 watt @ 50°C, 0.003 watt @ 70°C **Maximum Operating Voltage:** Maximum 50VAC or 5VDC **Angle of Rotation:** 60° **Life:** 1,000,000 cycles **Controller with Momentary Switch:** **Contact Resistance:** 100mΩ maximum **Dielectric Strength:** 250VAC 50/60 Hz for 1 minute **Insulation Resistance:** 100MΩ minimum @ 100VDC **Operational Force:** 520 ±260 gf **Power Rating:** 12VDC, 50 Milliamps **Travel:** 0.5 +0.5 -0.4mm **Life:** 100,000 cycles

Ω	Description	Digi-Key Part No.	Price Each 1	10	50	100	250	CTS Part No.
10K	Controller without Switch	252A103B60NA-ND	5.74	5.33	5.18	4.15	3.32	252A103B60NA
10K	Controller with Switch	252A103B60NB-ND	6.09	5.66	5.53	4.43	3.54	252A103B60NB
100K	Controller without Switch	252A104B60NA-ND	5.74	5.33	5.18	4.15	3.32	252A104B60NA
100K	Controller with Switch	252A104B60NB-ND	6.09	5.66	5.53	4.43	3.54	252A104B60NB

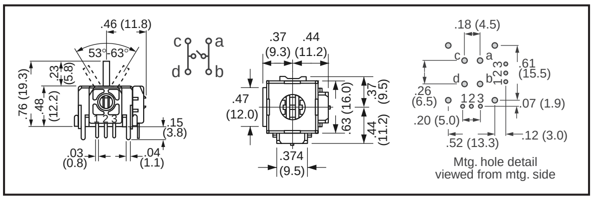

15.08mm Trimmer Potentiometers

Series 201

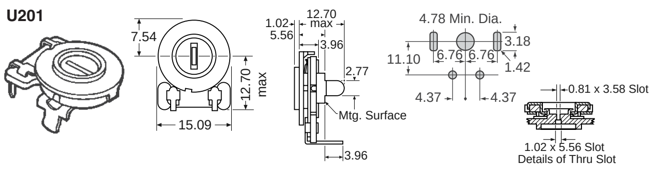

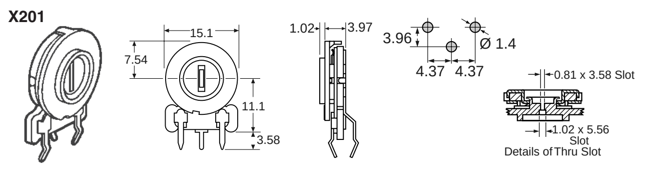

Features:

- Miniature size — knob 15.08mm diameter • Rim to guide screwdriver
- Printed circuit mounting with knob parallel or perpendicular to printed circuit board • Wide resistance range • Knob slotted for front or rear screwdriver adjustment • Reliable CTS composition resistance element
- Press fit self-supporting mounting

Electrical and Mechanical Specifications:

• **Resistance Range:** 100Ω through 1MΩ • **Resistance Tolerance:** ±20% • **Power Rating, Watts:** Below 5000Ω — 1/4 watt @ 40°C; 5000Ω and above — 1/4 watt @ 55°C • **Voltage Rating:** 350VDC • **Resistance Tapers:** Linear • **Adjusting Knob Information:** Blue nylon knob, 15.08mm diameter, slotted for front or rear screwdriver adjustment with rim to guide screwdriver. • **Angle of Rotation:** Total rotation — 260° ± 5°

Res. Ω	Digi-Key Part No.* Laydown Version	Digi-Key Part No.** Standup Version	Price Each 1	10	100	500	1,000	CTS Part No. Laydown Version	CTS Part No. Standup Version
100	201UR101B-ND	201XR101B-ND	.50	.46	.42	.33	.27	201UR101B	201XR101B
250	201UR251B-ND	201XR251B-ND	.50	.46	.42	.33	.27	201UR251B	201XR251B
500	201UR501B-ND	201XR501B-ND	.50	.46	.42	.33	.27	201UR501B	201XR501B
1K	201UR102B-ND	201XR102B-ND	.50	.46	.42	.33	.27	201UR102B	201XR102B
2.5K	201UR252B-ND	201XR252B-ND	.50	.46	.42	.33	.27	201UR252B	201XR252B
5K	201UR502B-ND	201XR502B-ND	.50	.46	.42	.33	.27	201UR502B	201XR502B
10K	201UR103B-ND	201XR103B-ND	.50	.46	.42	.33	.27	201UR103B	201XR103B
25K	201UR253B-ND	201XR253B-ND	.50	.46	.42	.33	.27	201UR253B	201XR253B
50K	201UR503B-ND	201XR503B-ND	.50	.46	.42	.33	.27	201UR503B	201XR503B
100K	201UR104B-ND	201XR104B-ND	.50	.46	.42	.33	.27	201UR104B	201XR104B
250K	201UR254B-ND	201XR254B-ND	.50	.46	.42	.33	.27	201UR254B	201XR254B
500K	201UR504B-ND	201XR504B-ND	.50	.46	.42	.33	.27	201UR504B	201XR504B
1M	201UR105B-ND	201XR105B-ND	.50	.46	.42	.33	.27	201UR105B	201XR105B

* **201U-KIT-ND** ***Digi-Key® Series 201 Potentiometer Kit (Q656225)*** - 5 each of 13 values **$29.95**

** **201X-KIT-ND** ***Digi-Key® Series 201 Potentiometer Kit (Q656235)*** - 5 each of 13 values **$29.95**

10mm Trimmer Potentiometers

Series 262

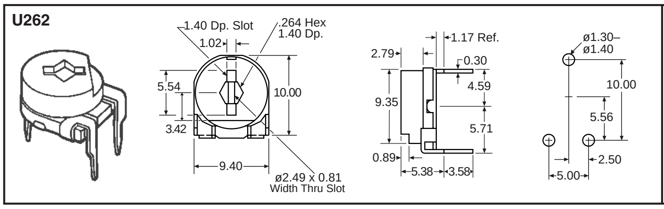

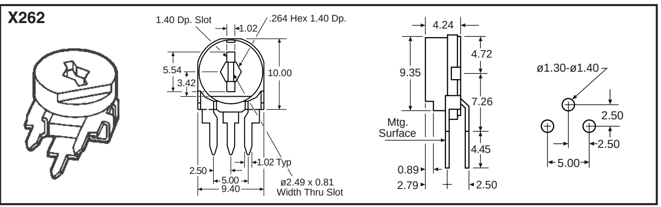

Features:

- Miniature size • Adjustment knob slotted for front or rear screwdriver adjustment • P.C. mounting with knob parallel or perpendicular to printed circuit board • Low height profile • Wide resistance range
- Reliable screened CTS composition element

Electrical and Mechanical Specifications:

Resistance Range: Standard — 500Ω through 1MΩ • **Resistance Tolerance:** Standard – ±20% • **Power Rating Watts:** 0.15 watts @ 40°C • **Voltage Rating:** Operating maximum — 350VDC. • **Resistance Tapers:** Linear • **Adjustment Knob:** Color coded nylon knob with hex hole for top adjustment plus slot for either top or bottom screwdriver adjustment. • **Angle of Rotation:** Total rotation — 265° ±5% • **Rotational Torque:** .3 to 5 inch ounces • **Stop Strength:** 16 inch ounces

Res. Ω	Color	Digi-Key Part No.* Laydown Version	Digi-Key Part No.** Standup Version	Price Each 1	10	100	500	1,000	CTS Part No. Laydown Version	CTS Part No. Standup Version
500	Green	U262R501B-ND	X262R501B-ND	.51	.48	.43	.34	.28	U262R501B	X262R501B
1K	Yellow	U262R102B-ND	X262R102B-ND	.51	.48	.43	.34	.28	U262R102B	X262R102B
2.5K	Red	U262R252B-ND	X262R252B-ND	.51	.48	.43	.34	.28	U262R252B	X262R252B
5K	Blue	U262R502B-ND	X262R502B-ND	.51	.48	.43	.34	.28	U262R502B	X262R502B
10K	White	U262R103B-ND	X262R103B-ND	.51	.48	.43	.34	.28	U262R103B	X262R103B
25K	Black	U262R253B-ND	X262R253B-ND	.51	.48	.43	.34	.28	U262R253B	X262R253B
50K	Orange	U262R503B-ND	X262R503B-ND	.51	.48	.43	.34	.28	U262R503B	X262R503B
100K	Gray	U262R104B-ND	X262R104B-ND	.51	.48	.43	.34	.28	U262R104B	X262R104B
250K	Violet	U262R254B-ND	X262R254B-ND	.51	.48	.43	.34	.28	U262R254B	X262R254B
500K	Brown	U262R504B-ND	X262R504B-ND	.51	.48	.43	.34	.28	U262R504B	X262R504B
1M	Lt. Blue	U262R105B-ND	X262R105B-ND	.51	.48	.43	.34	.28	U262R105B	X262R105B

* **U262-KIT-ND** ***Digi-Key® Series 262 Potentiometer Kit (Q656346)*** - 5 each of 11 values **$27.95**

** **X262-KIT-ND** ***Digi-Key® Series 262 Potentiometer Kit (Q656436)*** - 5 each of 11 values **$27.95**

Stock Pot™ Potentiometers 23.81mm Diameter

Series 450

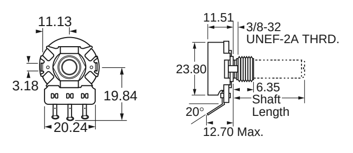

Fig. 1 — SD Slot

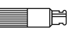

Fig. 2 — Flat

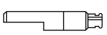

Fig. 3 — Round

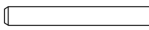

Features: • Off the shelf availability • Wide Resistance Range • Available with three shaft styles: knurled & slotted, flatted or round • Economical in limited volume applications

Electrical and Mechanical Specifications: • **Resistance Range:** 500Ω through 500KΩ • **Resistance Tolerance:** ±20% • **Power Rating, Watt:** Through 10KΩ, 1/2 watt; above 10KΩ through 100KΩ, 1/3 watt; above 100KΩ, 1/4 watt • **Voltage Rating:** Bushing to terminals: High pot test, one minute - 1080VAC • **Shaft Information:** Diameter: 6.35mm (Diameter over knurl 6.10mm ~ 6.25mm) • **Angle of Rotation:** Total rotation – 300° ±5°; Effective Rotation approximately 300° • **Bushing Information:** Material - Diecast zinc; Diameter – EIA st. 3/8" - 32 UNEF-2A thread; Length - 6.35mm ± .40mm • **Terminal Information:** Solder lug, formed to rear • **Locating Lug:** Left side, terminals down

Mounting hardware included.

To determine shaft length, use appropriate variable (1-8) shown below.

Shaft Length (mm)	12.70	15.88	19.05	22.23	25.40	50.80
Figure 1 - Slot	1	2	3	4	5	—
Figure 2 - Flat	—	—	—	6	7	—
Figure 3 - Round	—	—	—	—	—	8

Res. Ω	Digi-Key Part No. *	Price Each 1	10	100	250	500	1,000
500	450D501-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
1K	450D102-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
2.5K	450D252-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
5K	450D502-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
10K	450D103-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
25K	450D253-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
50K	450D503-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
100K	450D104-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
250K	450D254-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41
500K	450D504-☐-ND	3.18	2.87	2.44	2.02	1.70	1.41

***For complete part number, substitute corresponding variable (from chart above) for ☐.**

CTS 3MM SMT Round Chip-Type Cermet Trimmer Potentiometer

Series 303

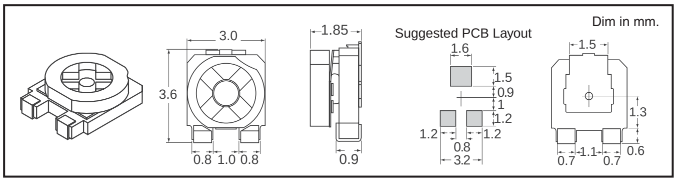

Features:
- Reflow solderable
- 8mm width x 4mm pitch embossed taping for auto insertion

Electrical and Mechanical Specifications: • Taper: Linear • Resistance Tolerance: ±25% • Power Rating: 0.1 watt at 70°C, 0 watts at 100°C • Maximum Working Voltage: 50V or $\sqrt{PR}$ = V, whichever is less • Temperature Range: -40°C ~ 100°C • Temperature Coefficient: ±250 ppm/°C • Rotation Angle: 270° ±20° • Operation Torgue: 1.96 ~19.6mN•m

Res. Ω	Digi-Key Part No.	Cut Tape Pricing 10	100	1,000	Digi-Key Part No.	Tape & Reel Pricing 2,000
100	303UC101ECT-ND	2.10	16.50	141.00	303UC101ETR-ND	120.00/M
200	303UC201ECT-ND	2.10	16.50	141.00	303UC201ETR-ND	120.00/M
500	303UC501ECT-ND	2.10	16.50	141.00	303UC501ETR-ND	120.00/M
1K	303UC102ECT-ND	2.10	16.50	141.00	303UC102ETR-ND	120.00/M
2K	303UC202ECT-ND	2.10	16.50	141.00	303UC202ETR-ND	120.00/M
5K	303UC502ECT-ND	2.10	16.50	141.00	303UC502ETR-ND	120.00/M
10K	303UC103ECT-ND	2.10	16.50	141.00	303UC103ETR-ND	120.00/M
20K	303UC203ECT-ND	2.10	16.50	141.00	303UC203ETR-ND	120.00/M
50K	303UC503ECT-ND	2.10	16.50	141.00	303UC503ETR-ND	120.00/M
100K	303UC104ECT-ND	2.10	16.50	141.00	303UC104ETR-ND	120.00/M
200K	303UC204ECT-ND	2.10	16.50	141.00	303UC204ETR-ND	120.00/M
500K	303UC504ECT-ND	2.10	16.50	141.00	303UC504ETR-ND	120.00/M
1M	303UC105ECT-ND	2.10	16.50	141.00	303UC105ETR-ND	120.00/M

6MM Square Cermet Trimmer Potentiometer

Series 306

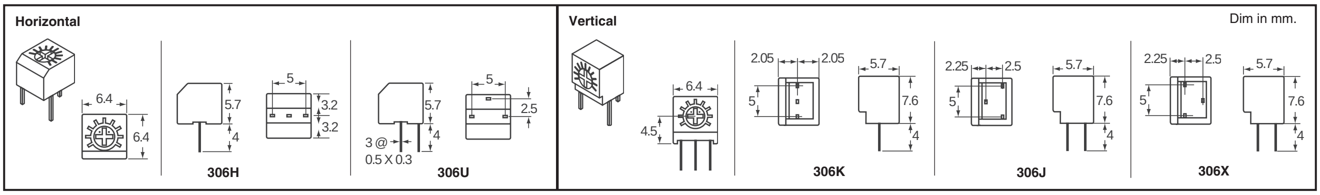

Res. Ω	Digi-Key Part No. Horizontal Bulk	Digi-Key Part No. Horizontal Tape & Reel	Digi-Key Part No. Horizontal Bulk	Digi-Key Part No. Vertical Bulk	Digi-Key Part No. Vertical Tape & Reel	Digi-Key Part No. Vertical Bulk	Digi-Key Part No. Vertical Bulk
10	306HC100B-ND	306HC100BRTR-ND	306UC100B-ND	306KC100B-ND	306KC100BRTR-ND	306JC100B-ND	306XC100B-ND
20	306HC200B-ND	306HC200BRTR-ND	306UC200B-ND	306KC200B-ND	306KC200BRTR-ND	306JC200B-ND	306XC200B-ND
50	306HC500B-ND	306HC500BRTR-ND	306UC500B-ND	306KC500B-ND	306KC500BRTR-ND	306JC500B-ND	306XC500B-ND
100	306HC101B-ND	306HC101BRTR-ND	306UC101B-ND	306KC101B-ND	306KC101BRTR-ND	306JC101B-ND	306XC101B-ND
200	306HC201B-ND	306HC201BRTR-ND	306UC201B-ND	306KC201B-ND	306KC201BRTR-ND	306JC201B-ND	306XC201B-ND
500	306HC501B-ND	306HC501BRTR-ND	306UC501B-ND	306KC501B-ND	306KC501BRTR-ND	306JC501B-ND	306XC501B-ND
1K	306HC102B-ND	306HC102BRTR-ND	306UC102B-ND	306KC102B-ND	—	306JC102B-ND	306XC102B-ND
2K	—	306HC202BRTR-ND	306UC202B-ND	306KC202B-ND	306KC202BRTR-ND	306JC202B-ND	306XC202B-ND
5K	306HC502B-ND	306HC502BRTR-ND	306UC502B-ND	306KC502B-ND	306KC502BRTR-ND	306JC502B-ND	306XC502B-ND
10K	306HC103B-ND	306HC103BRTR-ND	306UC103B-ND	306KC103B-ND	306KC103BRTR-ND	306JC103B-ND	306XC103B-ND
20K	306HC203B-ND	306HC203BRTR-ND	306UC203B-ND	306KC203B-ND	306KC203BRTR-ND	306JC203B-ND	306XC203B-ND
50K	306HC503B-ND	306HC503BRTR-ND	306UC503B-ND	306KC503B-ND	306KC503BRTR-ND	306JC503B-ND	306XC503B-ND
100K	306HC104B-ND	306HC104BRTR-ND	306UC104B-ND	306KC104B-ND	306KC104BRTR-ND	306JC104B-ND	306XC104B-ND
200K	306HC204B-ND	306HC204BRTR-ND	306UC204B-ND	306KC204B-ND	306KC204BRTR-ND	306JC204B-ND	306XC204B-ND
500K	306HC504B-ND	306HC504BRTR-ND	306UC504B-ND	306KC504B-ND	306KC504BRTR-ND	306JC504B-ND	306XC504B-ND
1M	306HC105B-ND	306HC105BRTR-ND	306UC105B-ND	306KC105B-ND	306KC105BRTR-ND	306JC105B-ND	306XC105B-ND
2M	306HC205B-ND	306HC205BRTR-ND	306UC205B-ND	306KC205B-ND	306KC205BRTR-ND	306JC205B-ND	306XC205B-ND

Features: • Easy and stable adjustment • Cross-slot knob for ease of adjustment • Auto insertion with radial taping

Electrical and Mechanical Specifications: • Taper: Linear • Resistance Tolerance: ±20% • Power Rating: 0.5 watt at 70°C, 0 watts at 125°C • Maximum Working Voltage: 200V or $\sqrt{PR}$ = V whichever is less • Temperature Range: -55°C ~ 125°C • Temperature Coefficient: ±100ppm/°C (except 10Ω ±200 ppm/C°) • Insulation Resistance: DC 500V, 1000MΩ minute • Dielectric Strength: AC 500V 1 minute • Operation Torque: 20 mN•m maximum • Stop Strength: 50 mN•m maximum

Series	Bulk Pricing 1	10	50	Tape & Reel Pricing 1,000
306HC/306KC	.54	5.00	20.75	640.00
306JC/306UC/306XC	.54	5.00	20.75	_

6MM Round Cermet Trimmer Potentiometer

Series 307

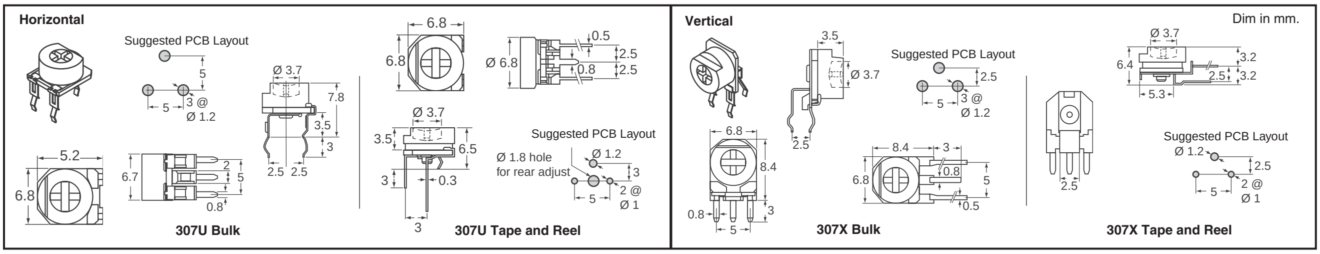

Res. Ω	Digi-Key Part No. Horizontal Bulk	Digi-Key Part No. Horizontal Tape & Reel	Digi-Key Part No. Vertical Bulk	Digi-Key Part No. Vertical Tape & Reel
100	307UC101E-ND	307UC101ERTR-ND	307XC101E-ND	307XC101ERTR-ND
200	307UC201E-ND	307UC201ERTR-ND	307XC201E-ND	307XC201ERTR-ND
500	307UC501E-ND	307UC501ERTR-ND	307XC501E-ND	307XC501ERTR-ND
1K	307UC102E-ND	307UC102ERTR-ND	307XC102E-ND	307XC102ERTR-ND
2K	307UC202E-ND	307UC202ERTR-ND	307XC202E-ND	307XC202ERTR-ND
5K	307UC502E-ND	307UC502ERTR-ND	307XC502E-ND	307XC502ERTR-ND
10K	307UC103E-ND	307UC103ERTR-ND	307XC103E-ND	307XC103ERTR-ND
20K	307UC203E-ND	307UC203ERTR-ND	307XC203E-ND	307XC203ERTR-ND
50K	307UC503E-ND	307UC503ERTR-ND	307XC503E-ND	307XC503ERTR-ND
100K	307UC104E-ND	307UC104ERTR-ND	307XC104E-ND	307XC104ERTR-ND
200K	307UC204E-ND	307UC204ERTR-ND	307XC204E-ND	307XC204ERTR-ND
500K	307UC504E-ND	307UC504ERTR-ND	307XC504E-ND	307XC504ERTR-ND
1M	307UC105E-ND	307UC105ERTR-ND	307XC105E-ND	307XC105ERTR-ND

Features: • Front cross-slot adjustment • Auto insertion with radial taping • Radial taped parts are rear side adjustable **Electrical and Mechanical Specifications**: • Taper: Linear • Resistance Tolerance: ±25% • Power Rating: Cermet - 0.3 watt at 70°C , 0 watts at 100°C • Maximum Working Voltage: 100V or $\sqrt{PR}$ = V • Temperature Range: -25°C ~ 100°C • Temperature Coefficient: ±250 ppm/°C • Rotation Angle: 240° ±10° • Operation Torque: Bulk; 2.94 ~ 29.4 mN•m Taped; 0.98 ~ 29.4 mN•m • Stop Strength: 49.00 mN•m maximum

Series	Bulk Pricing 1	10	50	Tape & Reel Size	Pricing
307UC	.15	1.40	5.81	800	120.00
307XC	.15	1.40	5.81	1,000	150.00

CTS Wirewound Potentiometers - 5 Watt

Series 026

SPECIFICATIONS: Resistance Range: 5Ω ~ 25KΩ **Resistance Tolerance:** ±20% **Power Rating Watts:** 5 Watts @ 25°C Derated to No Load @ 105°C **Voltage Rating:** Operating maximum 500VDC **Shaft Information:** 1” FMS x .250” (25.40mm FMS x 6.35mm) Diameter, Metal, Plain Round **Angle of Rotation:** 300° ±5° **Bushing Information:** Diameter: EIA Std. 3/8”-32, UNEF-2A Thread Length: 3/8” ± 1/64” (9.52mm ± .40mm) **Terminal Information:** Solder Lug, Formed to Rear **Locating Lug:** Left Side, Terminals Down

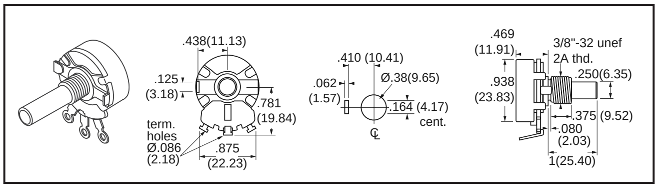

Ω	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
5	CT2150-ND	3.61	3.36	2.79	2.52	026TB32R5AOB1A1
10	CT2151-ND*	3.61	3.36	2.79	2.52	026TB32R100B1A1
25	CT2152-ND	3.61	3.36	2.79	2.52	026TB32R250B1A1
50	CT2153-ND*	3.61	3.36	2.79	2.52	026TB32R500B1A1
100	CT2154-ND*	3.61	3.36	2.79	2.52	026TB32R101B1A1
250	CT2155-ND	3.61	3.36	2.79	2.52	026TB32R251B1A1
500	CT2156-ND*	3.61	3.36	2.79	2.52	026TB32R501B1A1
1K	CT2157-ND*	3.61	3.36	2.79	2.52	026TB32R102B1A1
5K	CT2158-ND	3.02	2.82	2.34	2.11	026TB32R502B1A1
10K	CT2159-ND*	3.61	3.36	2.79	2.52	026TB32R103B1A1
25K	CT2160-ND*	3.61	3.36	2.79	2.52	026TB32R253B1A1

* **26-KIT-ND** ***Digi-Key® Series 026 Potentiometer Kit (Q656163)*** - 5 each of 7 values **$99.95**

Carbon Potentiometers - 1/4 Watt

Series 270

Fig. 1

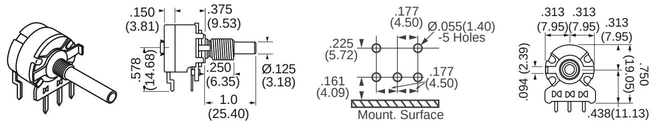

Fig. 2

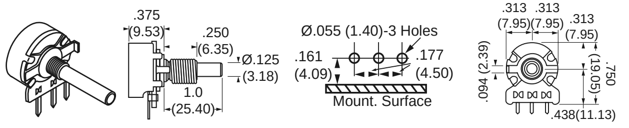

SPECIFICATIONS:
Resistance Range: 500Ω through 1MΩ
Resistance Tolerance: ±20%
Power Rating Watts: 1/4 Watt through 100K, 1/5 Watt above 100K
Voltage Rating: Operating Maximum: 500VDC
Mechanical Rotation: 300° ±5°
Available Power Switch: Type: Rotary Rating: 3A @ 125VAC (UL Approved)
Effective Rotation: Without Switch 300° (Approx.), with Switch 290° (Approx.)
Resistance Taper: Linear, Logarithmic
Locating Lug: Left Side, Terminals Down
Bushing Information: Length: 1/4” (6.35mm), Thread Size: 1/4”-32, diameter: 1/4” (6.35mm)
Shaft Information: Length: 1” (25.40mm) including bushing, Diameter: .125” (3.18mm)

Digi-Key Part No.	Price Each 1	10	50	100	250
CT2223-ND - CT2233-ND	3.48	3.24	2.69	2.43	2.16
CT2201-ND - CT2211-ND	2.71	2.52	2.10	1.89	1.68
CT2212-ND - CT2222-ND	3.53	3.28	2.73	2.46	2.19
CT2234-ND - CT2244-ND	2.77	2.58	2.15	1.94	1.72

Linear Taper with Switch Fig. 1			Linear Taper without Switch Fig. 2			Logarithmic Taper with Switch Fig. 1			Logarithmic Taper without Switch Fig. 2		
Ω	Digi-Key Part No.	CTS Part No.	Ohms	Digi-Key Part No.	CTS Part No.	Ohms	Digi-Key Part No.	CTS Part No.	Ohms	Digi-Key Part No.	CTS Part No.
500	CT2223-ND*	270X232A501B1B1	500	CT2201-ND**	270X232A501B1A1	500	CT2212-ND†	270X232A501B2B1	500	CT2234-ND††	270X232A501B2A1
1K	CT2224-ND*	270X232A102B1B1	1K	CT2202-ND**	270X232A102B1A1	1K	CT2213-ND†	270X232A102B2B1	1K	CT2235-ND††	270X232A102B2A1
2.5K	CT2225-ND	270X232A252B1B1	2.5K	CT2203-ND	270X232A252B1A1	2.5K	CT2214-ND	270X232A252B2B1	2.5K	CT2236-ND	270X232A252B2A1
5K	CT2226-ND	270X232A502B1B1	5K	CT2204-ND	270X232A502B1A1	5K	CT2215-ND	270X232A502B2B1	5K	CT2237-ND	270X232A502B2A1
10K	CT2227-ND*	270X232A103B1B1	10K	CT2205-ND**	270X232A103B1A1	10K	CT2216-ND†	270X232A103B2B1	10K	CT2238-ND††	270X232A103B2A1
25K	CT2228-ND*	270X232A253B1B1	25K	CT2206-ND**	270X232A253B1A1	25K	CT2217-ND†	270X232A253B2B1	25K	CT2239-ND††	270X232A253B2A1
50K	CT2229-ND*	270X232A503B1B1	50K	CT2207-ND**	270X232A503B1A1	50K	CT2218-ND†	270X232A503B2B1	50K	CT2240-ND††	270X232A503B2A1
100K	CT2230-ND*	270X232A104B1B1	100K	CT2208-ND**	270X232A104B1A1	100K	CT2219-ND†	270X232A104B2B1	100K	CT2241-ND††	270X232A104B2A1
250K	CT2231-ND	270X232A254B1B1	250K	CT2209-ND	270X232A254B1A1	250K	CT2220-ND	270X232A254B2B1	250K	CT2242-ND	270X232A254B2A1
500K	CT2232-ND*	270X232A504B1B1	500K	CT2210-ND**	270X232A504B1A1	500K	CT2221-ND†	270X232A504B2B1	500K	CT2243-ND††	270X232A504B2A1
1MEG	CT2233-ND*	270X232A105B1B1	1 MEG	CT2211-ND**	270X232A105B1A1	1 MEG	CT2222-ND†	270X232A105B2B1	1 MEG	CT2244-ND††	270X232A105B2A1

* **270-A-KIT-ND** ***Digi-Key® Series 270 Potentiometer Kit (Q652415)*** - 5 each of 8 values **$109.95**
** **270-B-KIT-ND** ***Digi-Key® Series 270 Potentiometer Kit (Q653056)*** - 5 each of 8 values **$89.95**
† **270-C-KIT-ND** ***Digi-Key® Series 270 Potentiometer Kit (Q653103)*** - 5 each of 8 values **$109.95**
†† **270-D-KIT-ND** ***Digi-Key® Series 270 Potentiometer Kit (Q655519)*** - 5 each of 8 values **$89.95**

Carbon Potentiometers - 1/8 Watt

Series 296

Fig. 1 — Vertical Adjust

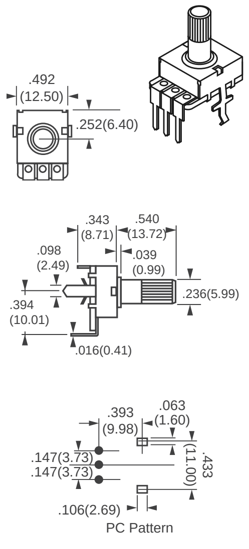

Fig. 2 — Horizontal Adjust

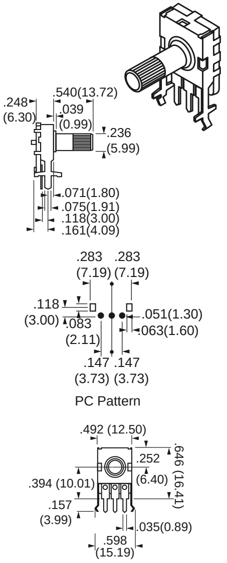

SPECIFICATIONS:

Resistance Range: 500Ω ~ 1MΩ **Resistance tolerance:** ±20% **Power Rating Watts:** 0.15 Watts @ 40°C derated to no load @ 85°C **Voltage Rating:** Across End Terminals: 250VDC **Rotational Torque:** 20-144gcm **Angle of Rotation:** Total rotation: 300° ±5°, Effective Rotation: 280° (Approximatly) **Stops:** 0.57 N-m Minimum Stop Strength **Shaft Information:** Length: 13.72mm Beyond Cover, Style: Knurled, Diameter: 6mm. **Mounting Information:** P.C. Board Mounting

Fig.	Ω	Description	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
1	500	Vertical	CT2261-ND*	1.51	1.26	1.05	.84	296UD501B1N
	1K	Vertical	CT2262-ND*	1.51	1.26	1.05	.84	296UD102B1N
	2.5K	Vertical	CT2263-ND*	1.51	1.26	1.05	.84	296UD252B1N
	5K	Vertical	CT2264-ND*	1.51	1.26	1.05	.84	296UD502B1N
	10K	Vertical	CT2265-ND*	1.51	1.26	1.05	.84	296UD103B1N
	25K	Vertical	CT2266-ND*	1.51	1.26	1.05	.84	296UD253B1N
	50K	Vertical	CT2267-ND*	1.51	1.26	1.05	.84	296UD503B1N
	100K	Vertical	CT2268-ND*	1.51	1.26	1.05	.84	296UD104B1N
	250K	Vertical	CT2269-ND*	1.51	1.26	1.05	.84	296UD254B1N
	500K	Vertical	CT2270-ND*	1.51	1.26	1.05	.84	296UD504B1N
	1MEG	Vertical	CT2271-ND*	1.51	1.26	1.05	.84	296UD105B1N
2	500	Horizontal	CT2250-ND**	1.51	1.26	1.05	.84	296XD501B1N
	1K	Horizontal	CT2251-ND**	1.51	1.26	1.05	.84	296XD102B1N
	2.5K	Horizontal	CT2252-ND**	1.51	1.26	1.05	.84	296XD252B1N
	5K	Horizontal	CT2253-ND**	1.51	1.26	1.05	.84	296XD502B1N
	10K	Horizontal	CT2254-ND**	1.51	1.26	1.05	.84	296XD103B1N
	25K	Horizontal	CT2255-ND**	1.51	1.26	1.05	.84	296XD253B1N
	50K	Horizontal	CT2256-ND**	1.51	1.26	1.05	.84	296XD503B1N
	100K	Horizontal	CT2257-ND**	1.51	1.26	1.05	.84	296XD104B1N
	250K	Horizontal	CT2258-ND**	1.51	1.26	1.05	.84	296XD254B1N
	500K	Horizontal	CT2259-ND**	1.51	1.26	1.05	.84	296XD504B1N
	1MEG	Horizontal	CT2260-ND**	1.51	1.26	1.05	.84	296XD105B1N

* **296U-KIT-ND** ***Digi-Key® Series 296 Potentiometer Kit (Q656135)*** - 5 each of 11 values **$59.95**
** **296X-KIT-ND** ***Digi-Key® Series 296 Potentiometer Kit (Q656146)*** - 5 each of 11 values **$59.95**

Precision Electronic Components Ltd.

MIL Style RV6 – 1/2 Watt Carbon Potentiometers

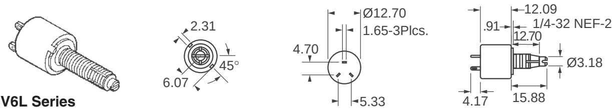

RV6L Series

Specifications:
- **Resistance Tolerance:** ±10% through 500K, ±20% from 1Meg
- **Resistance Taper:** Linear
- **Power Rating:** .5 Watts @ 70°C
- **Dielectric Strength:** 750V RMS
- **Working Voltage:** 350VDC maximum, but power not to exceed rating
- **Operating Temperature:** -55°C ~ 120°C
- **Mechanical Rotation:** 295° QPL listed under MIL R 94 Specifications. Metal housing, stainless steel shaft • Hardware included

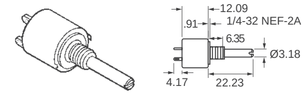

RV6N Series

Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500)	102 (1K) 252 (2.5K) 502 (5K)	103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K)	105 (1Meg) 505 (5Meg)

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Precision Part No.
100-5Meg	RV6L □□□ C-ND	10.60	9.78	7.34	4.73	4.34	RV6LAYSA(Code)A
100-1Meg	RV6N □□□ C-ND	9.59	8.85	6.64	4.28	3.93	RV6NAYSD(Code)A

† For complete number, substitute corresponding code (from Resistance Code Chart) for □□□.

Wirewound Precision Ten-Turn
2 Watt Potentiometers

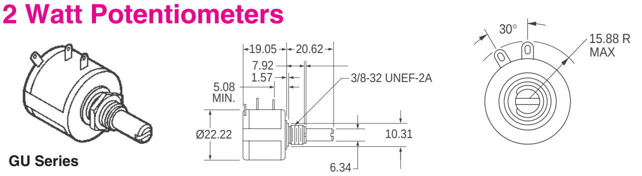

GU Series

Specifications:
• **Resistance Tolerance**: ±5% • **Electrical/Mechanical Rotation:** 3600° + 10° -0° • **Effective Rotation:** 3600° nominal • **Dielectric Strength:** 1000 VAC for 60 seconds at ATM • **Working Voltage:** 500 volts maximum • **Power rating:** 2 watt at 70° C • **Shaft Length and Size:** 13/16” (20.64mm) FMS screwdriver slotted, stainless steel • **Bushing Style:** 5/16” (7.95mm) • **Temperature Coefficient:** ± 20 PPM/°C • Hardware included

Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)
101 (100) 201 (200) 501 (500) 102 (1K)	202 (2K) 502 (5K) 103 (10K) 203 (20K)	253 (25K) 503 (50K) 104 (100K)

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Precision Part No.
100-100K	GU □□□ 1S26-ND	17.88	14.76	13.86	13.32	12.18	GU□□□ 1S26

† For complete number, substitute corresponding code (from Resistance Code Chart) for □□□.

Type SPR Washable
1/2 Watt Carbon Potentiometers

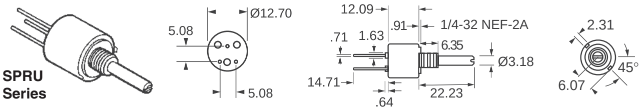

Specifications: • **Resistance Tolerance:** ±10% through 500K, ±20% from 1Meg ~ 5Meg • **Resistance Taper:** Linear • **Power Rating:** .5 Watts @ 70°C • **Dielectric Strength:** 750V RMS • **Working Voltage:** 350VDC maximum, but power not to exceed rating • **Operating Temperature:** -55°C ~ 120°C • **Mechanical Rotation:** 295° • Hardware included
Meets or exceeds MIL R 94 Specifications. Metal housing, stainless steel shaft.

Resistance Code Chart

Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500) 102 (1K)	252 (2.5K) 502 (5K) 103 (10K) 253 (25K)	503 (50K) 104 (100K) 254 (250K) 504 (500K)	105 (1Meg) 255 (2.5Meg) 505 (5Meg)

Resistance Range (Ω)	Digi-Key† Part- No.	Price Each 1	10	50	100	250	Precision Part No.
100-5Meg	SPRU-□□□ C-ND	7.75	7.01	5.96	4.95	4.33	SPRU(Code)1S28

† For complete number, substitute corresponding code (from Resistance Code Chart) for □□□.

MIL Style – 2 Watt Carbon Potentiometers

RV4L, RV4N, RV4NJ-(Linear Taper Single Element)
KA (Logarithmic Taper Single Element)
KB (Reverse Logarithmic Taper Single Element)
KU (High Life* Linear Taper Single Element)
**Rotational Life: 1 million cycles*
KKA (Logarithmic Taper Dual Element)
KKB (Reverse Logarithmic Taper Dual Element)
KKU (Linear Taper Dual Element)

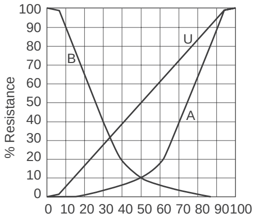

U = Linear Taper
A = Logarithmic Taper
B = Reverse Logarithmic Taper

Specifications:
- **Resistance Tolerance:** ±10% through 500K, ±20% from 1Meg
- **Power Rating:** 2 Watts @ 70°C, Derate to 0 Watt @ 120°C
- **Dielectric Strength:** 900V RMS
- **Working Voltage:** 500 volts, but power not to exceed rating
- **Operating Temperature:** -65°C ~ 125°C (55°C ~ 120°C for RV4NJ)
- **Mechanical Rotation:** 314° QPL listed under MIL R 94 Specifications. Metal housing, stainless steel shaft. • Hardware included

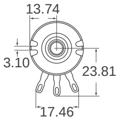

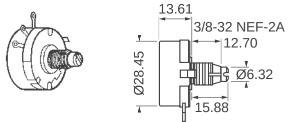

RV4L Series

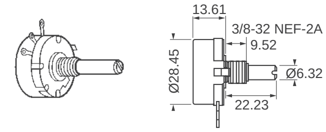

RV4N Series KA/KB/KU Series

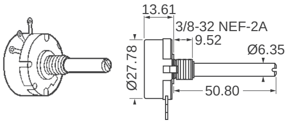

RV4NJ Series

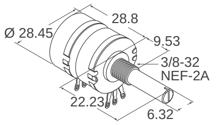

KKA/KKB/KKU Series

RV4L SERIES (LINEAR)

Code (Value)	Code (Value)	Code (Value)	Code (Value)
500 (50) 101 (100) 251(250) 501 (500)	102 (1K) 252 (2.5K) 502 (5K) 103 (10K)	153 (15K) 253 (25K) 353 (35K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1Meg)

KA SERIES (LOG TAPER)

Code (Value)	Code (Value)
502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1Meg)

RV4N SERIES (LINEAR)

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
500 (50) 101 (100) 151 (150) 251 (250)	501 (500) 102 (1K) 152 (1.5K) 252 (2.5K)	502 (5K) 752 (7.5K) 103 (10K) 153 (15K)	253 (25K) 353 (35K) 503 (50K) 104 (100K)	254 (250K) 504 (500K) 105 (1Meg)

RV4NJ SERIES (LINEAR)

Code (Value)	Code (Value)
500 (50) 101 (100) 251 (250) 501 (500) 102 (1K) 252 (2.5K)	502 (5K) 103 (10K) 253 (25K) 104 (100K) 504 (500K) 105 (1Meg)

KB SERIES (REV LOG)

Code (Value)	Code (Value)
102 (1K) 502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1Meg)

KKA SERIES (DUAL LOG)

Code (Value)	Code (Value)
102 (1K) 502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1Meg)

KKB SERIES (DUAL REV LOG)

Code (Value)	Code (Value)
102 (1K) 502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1Meg)

KKU SERIES (DUAL LINEAR)

Code (Value)
102 (1K) 502 (5K) 103 (10K)

Resistance Range (Ω)	Digi-Key† Part No.	Price Each 1	10	50	100	250	Precision Part No.
50-1Meg	RV4L □□□ C-ND	7.49	6.77	5.76	4.79	4.18	RV4LAYSA(Code)A
50-1Meg	RV4N □□□ C-ND	7.15	6.47	5.50	4.57	3.99	RV4NAYSD(Code)A
50-1Meg	RV4NJ □□□ C-ND	7.15	6.47	5.50	4.57	3.99	RV4NAYSJ(Code)A
5K-1Meg	KA □□□ 1S28-ND	10.22	9.24	7.86	6.53	5.70	KA(Code)1S28
5K	KU5021S28-HL-ND	10.32	9.33	7.94	6.60	5.76	KU5021S28-HL
1K-1Meg	KB □□□ 1S28-ND	10.27	9.29	7.90	6.56	5.73	KB(Code)1S28
1K-1Meg	KKA □□□ 1S28-ND	28.99	26.21	22.30	18.51	16.17	KKA(Code)1S28
1K-1Meg	KKB □□□ 1S28-ND	28.99	26.21	22.30	18.51	16.17	KKU(Code)1S28
1K-10K	KKU □□□ 1S28-ND	23.43	21.18	18.02	14.96	13.07	KKU(Code)1S28

† For complete number, substitute corresponding code (from Resistance Code Chart) for □□□.

Model 15 Turns Counting Dial

E15-1-11-ND:
The left digit indicates the number of complete revolutions of the turning knob and the right two digits indicate the percent of a revolution. The unit registers a total count of 999.

E15-2-11-ND:
The left two digits indicate the number of complete revolutions of the turning knob and the right two digits indicate the percent of a revolution. The unit registers a total count of 9999.

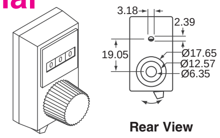

Rear View

Description	Digi-Key Part No.	Price Each	Precision Part No.
Digital Dial (3 Digit/10 turn)	E15-1-11-ND	30.15	E15-1-11
Digital Dial (4 Digit/100 turn)	E15-2-11-ND	34.62	E15-2-11

KILO INTERNATIONAL

Machined Aluminum Instrumentation Knobs

Features:
- Precision aluminum machined surfaces from bar stock.
- Anodized finish gloss or matte.
- Colors are clear or black.
- Set screws accept a 1/16" hex allen wrench
- All knobs will accept round shafts with sizes indicated below.
- ML Model: One 6-32 set screw located 90° from the indicator line.
- DD, JD, DDS and SC Models: Two 6-32 set screws set 120° apart.
- HD Model: Two 6-32 set screws set 90° apart.
- OEJ, OED and OES Models: Single 6-32 set screw located 180° from indicator line.

Made in the USA

Fig. 1 – ML Model
"Soft Touch"

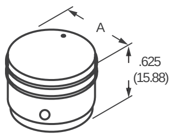

Fig. 2 – DD Model

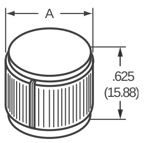

Fig. 3 – JD Model

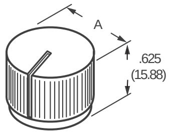

Fig. 4 – HD Model

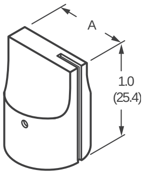

Fig. 5 – DDS Model

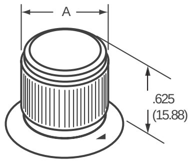

Fig. 6 – SC Model

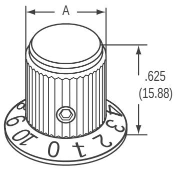

Fig. 7 – OEJ Model

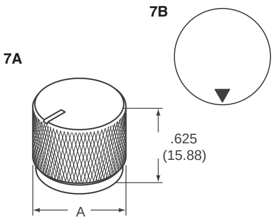

Fig. 8 – OED Model

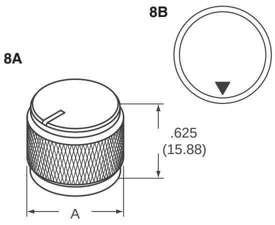

Fig. 9 – OES Model

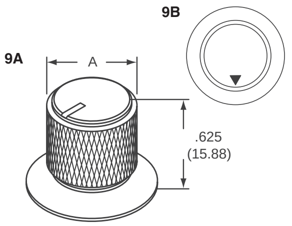

Fig.	Shaft Diameter Inch (mm)	Dimension A Inch (mm)	Digi-Key* Part No.	Price Each			
				1	10	50	100
1	.125 (3.18)	.50 (12.70)	226-□000-ND	5.13	4.56	3.77	3.42
	.125 (3.18)	.625 (15.875)	226-□069-ND	6.05	5.38	4.44	4.04
	.125 (3.18)	.75 (19.05)	226-□026-ND	6.26	5.56	4.59	4.17
	.125 (3.18)	.925 (23.50)	226-□027-ND	6.86	6.10	5.04	4.58
	.236 (6.00)	.50 (12.70)	226-□003-ND	5.13	4.56	3.77	3.42
	.236 (6.00)	.625 (15.875)	226-□071-ND	6.05	5.38	4.44	4.04
	.236 (6.00)	.75 (19.05)	226-□004-ND	6.26	5.56	4.59	4.17
	.236 (6.00)	.925 (23.50)	226-□028-ND	6.86	6.10	5.04	4.58
	.250 (6.35)	.50 (12.70)	226-□025-ND	5.13	4.56	3.77	3.42
	.250 (6.35)	.625 (15.875)	226-□070-ND	6.05	5.38	4.44	4.04
	.250 (6.35)	.75 (19.05)	226-□001-ND	6.26	5.56	4.59	4.17
	.250 (6.35)	.925 (23.50)	226-□002-ND	6.86	6.10	5.04	4.58
2	.125 (3.18)	.50 (12.70)	226-□005-ND	4.73	4.20	3.47	3.15
	.125 (3.18)	.625 (15.875)	226-□057-ND	5.06	4.50	3.72	3.38
	.125 (3.18)	.75 (19.05)	226-□042-ND	4.88	4.34	3.59	3.26
	.125 (3.18)	.925 (23.50)	226-□043-ND	5.13	4.56	3.77	3.42
	.236 (6.00)	.50 (12.70)	226-□008-ND	4.73	4.20	3.47	3.15
	.236 (6.00)	.625 (15.875)	226-□059-ND	5.06	4.50	3.72	3.38
	.236 (6.00)	.75 (19.05)	226-□009-ND	4.88	4.34	3.59	3.26
	.236 (6.00)	.925 (23.50)	226-□044-ND	5.13	4.56	3.77	3.42
	.250 (6.35)	.50 (12.70)	226-□041-ND	4.73	4.20	3.47	3.15
	.250 (6.35)	.625 (15.875)	226-□058-ND	5.06	4.50	3.72	3.38
	.250 (6.35)	.75 (19.05)	226-□006-ND	4.88	4.34	3.59	3.26
	.250 (6.35)	.925 (23.50)	226-□007-ND	5.13	4.56	3.77	3.42
3	.125 (3.18)	.50 (12.70)	226-□010-ND	4.73	4.20	3.47	3.15
	.125 (3.18)	.625 (15.875)	226-□060-ND	5.06	4.50	3.72	3.38
	.125 (3.18)	.75 (19.05)	226-□034-ND	4.88	4.34	3.59	3.26
	.125 (3.18)	.925 (23.50)	226-□035-ND	5.13	4.56	3.77	3.42
	.236 (6.00)	.50 (12.70)	226-□013-ND	4.73	4.20	3.47	3.15
	.236 (6.00)	.625 (15.875)	226-□062-ND	5.06	4.50	3.72	3.38
	.236 (6.00)	.75 (19.05)	226-□014-ND	4.88	4.34	3.59	3.26
	.236 (6.00)	.925 (23.50)	226-□036-ND	5.13	4.56	3.77	3.42
	.250 (6.35)	.50 (12.70)	226-□033-ND	4.73	4.20	3.47	3.15
	.250 (6.35)	.625 (15.875)	226-□061-ND	5.06	4.50	3.72	3.38
	.250 (6.35)	.75 (19.05)	226-□011-ND	4.88	4.34	3.59	3.26
	.250 (6.35)	.925 (23.50)	226-□012-ND	5.13	4.56	3.77	3.42
4	.125 (3.18)	.50 (12.70)	226-□015-ND	5.38	4.78	3.95	3.59
	.125 (3.18)	.625 (15.875)	226-□066-ND	6.26	5.56	4.59	4.17
	.125 (3.18)	.75 (19.05)	226-□030-ND	6.48	5.76	4.76	4.32
	.125 (3.18)	.925 (23.50)	226-□031-ND	7.29	6.48	5.35	4.86
	.236 (6.00)	.50 (12.70)	226-□018-ND	5.38	4.78	3.95	3.59
	.236 (6.00)	.625 (15.875)	226-□068-ND	6.26	5.56	4.59	4.17
	.236 (6.00)	.75 (19.05)	226-□019-ND	6.48	5.76	4.76	4.32
	.236 (6.00)	.925 (23.50)	226-□032-ND	7.29	6.48	5.35	4.86
	.250 (6.35)	.50 (12.70)	226-□029-ND	5.38	4.78	3.95	3.59
	.250 (6.35)	.625 (15.875)	226-□067-ND	6.26	5.56	4.59	4.17
	.250 (6.35)	.75 (19.05)	226-□016-ND	6.48	5.76	4.76	4.32
	.250 (6.35)	.925 (23.50)	226-□017-ND	7.29	6.48	5.35	4.86
5	.125 (3.18)	.50 (12.70)	226-□020-ND	5.20	4.62	3.82	3.47
	.125 (3.18)	.625 (15.875)	226-□063-ND	6.05	5.38	4.44	4.04
	.125 (3.18)	.75 (19.05)	226-□038-ND	6.21	5.52	4.56	4.14
	.125 (3.18)	.925 (23.50)	226-□039-ND	6.71	5.96	4.92	4.47
	.236 (6.00)	.50 (12.70)	226-□023-ND	5.20	4.62	3.82	3.47
	.236 (6.00)	.625 (15.875)	226-□065-ND	6.05	5.38	4.44	4.04
	.236 (6.00)	.75 (19.05)	226-□024-ND	6.21	5.52	4.56	4.14
	.236 (6.00)	.925 (23.50)	226-□040-ND	6.71	5.96	4.92	4.47
	.250 (6.35)	.50 (12.70)	226-□037-ND	5.20	4.62	3.82	3.47
	.250 (6.35)	.625 (15.875)	226-□064-ND	6.05	5.38	4.44	4.04
	.250 (6.35)	.75 (19.05)	226-□021-ND	6.21	5.52	4.56	4.14
	.250 (6.35)	.925 (23.50)	226-□022-ND	6.71	5.96	4.92	4.47
6	.125 (3.18)	.50 (12.70)	226-□072-ND	5.47	4.86	4.01	3.65
	.125 (3.18)	.625 (15.875)	226-□073-ND	6.05	5.38	4.44	4.04
	.125 (3.18)	.75 (19.05)	226-□074-ND	6.53	5.80	4.79	4.35
	.125 (3.18)	.925 (23.50)	226-□075-ND	7.04	6.26	5.17	4.70
	.236 (6.00)	.50 (12.70)	226-□080-ND	5.47	4.86	4.01	3.65
	.236 (6.00)	.625 (15.875)	226-□081-ND	6.05	5.38	4.44	4.04
	.236 (6.00)	.75 (19.05)	226-□082-ND	6.53	5.80	4.79	4.35
	.236 (6.00)	.925 (23.50)	226-□083-ND	7.04	6.26	5.17	4.70
	.250 (6.35)	.50 (12.70)	226-□076-ND	5.47	4.86	4.01	3.65
	.250 (6.35)	.625 (15.875)	226-□077-ND	6.05	5.38	4.44	4.04
	.250 (6.35)	.75 (19.05)	226-□078-ND	6.53	5.80	4.79	4.35
	.250 (6.35)	.925 (23.50)	226-□079-ND	7.04	6.26	5.17	4.70
7A	.125 (3.18)	.50 (12.70)	226-□084-ND	2.88	2.56	2.12	1.92
	.125 (3.18)	.625 (15.875)	226-□085-ND	2.97	2.64	2.18	1.98
	.125 (3.18)	.75 (19.05)	226-□086-ND	3.08	2.74	2.27	2.06
	.125 (3.18)	.925 (23.50)	226-□087-ND	3.17	2.82	2.33	2.12

* For complete part number, substitute the corresponding color choice (listed below) for □:
1 = Black Gloss **2** = Aluminum Gloss **3** = Aluminum Matte **4** = Black Matte

(Continued)

Machined Aluminum Instrumentation Knobs *(Cont.)*

Fig.	Shaft Diameter Inch (mm)	Dimension A Inch (mm)	Digi-Key* Part No.	Price Each 1	10	50	100
7A	.236 (6.00)	.50 (12.70)	226-□092-ND	2.88	2.56	2.12	1.92
	.236 (6.00)	.625 (15.875)	226-□093-ND	2.97	2.64	2.18	1.98
	.236 (6.00)	.75 (19.05)	226-□094-ND	3.08	2.74	2.27	2.06
	.236 (6.00)	.925 (23.50)	226-□095-ND	3.17	2.82	2.33	2.12
	.250 (6.35)	.50 (12.70)	226-□088-ND	2.88	2.56	2.12	1.92
	.250 (6.35)	.625 (15.875)	226-□089-ND	2.97	2.64	2.18	1.98
	.250 (6.35)	.75 (19.05)	226-□090-ND	3.08	2.74	2.27	2.06
	.250 (6.35)	.925 (23.50)	226-□091-ND	3.17	2.82	2.33	2.12
7B	.125 (3.18)	.50 (12.70)	226-□120-ND	2.88	2.56	2.12	1.92
	.125 (3.18)	.625 (15.875)	226-□121-ND	2.97	2.64	2.18	1.98
	.125 (3.18)	.75 (19.05)	226-□122-ND	3.08	2.74	2.27	2.06
	.125 (3.18)	.925 (23.50)	226-□123-ND	3.17	2.82	2.33	2.12
	.236 (6.00)	.50 (12.70)	226-□128-ND	2.88	2.56	2.12	1.92
	.236 (6.00)	.625 (15.875)	226-□129-ND	2.97	2.64	2.18	1.98
	.236 (6.00)	.75 (19.05)	226-□130-ND	3.08	2.74	2.27	2.06
	.236 (6.00)	.925 (23.50)	226-□131-ND	3.17	2.82	2.33	2.12
	.250 (6.35)	.50 (12.70)	226-□124-ND	2.88	2.56	2.12	1.92
	.250 (6.35)	.625 (15.875)	226-□125-ND	2.97	2.64	2.18	1.98
	.250 (6.35)	.75 (19.05)	226-□126-ND	3.08	2.74	2.27	2.06
	.250 (6.35)	.925 (23.50)	226-□127-ND	3.17	2.82	2.33	2.12
8A	.125 (3.18)	.50 (12.70)	226-□096-ND	2.88	2.56	2.12	1.92
	.125 (3.18)	.625 (15.875)	226-□097-ND	2.97	2.64	2.18	1.98
	.125 (3.18)	.75 (19.05)	226-□098-ND	3.08	2.74	2.27	2.06
	.125 (3.18)	.925 (23.50)	226-□099-ND	3.17	2.82	2.33	2.12
	.236 (6.00)	.50 (12.70)	226-□104-ND	2.88	2.56	2.12	1.92
	.236 (6.00)	.625 (15.875)	226-□105-ND	2.97	2.64	2.18	1.98
	.236 (6.00)	.75 (19.05)	226-□106-ND	3.08	2.74	2.27	2.06
	.236 (6.00)	.925 (23.50)	226-□107-ND	3.17	2.82	2.33	2.12
	.250 (6.35)	.50 (12.70)	226-□100-ND	2.88	2.56	2.12	1.92
	.250 (6.35)	.625 (15.875)	226-□101-ND	2.97	2.64	2.18	1.98
	.250 (6.35)	.75 (19.05)	226-□102-ND	3.08	2.74	2.27	2.06
	.250 (6.35)	.925 (23.50)	226-□103-ND	3.17	2.82	2.33	2.12
8B	.125 (3.18)	.50 (12.70)	226-□132-ND	2.88	2.56	2.12	1.92
	.125 (3.18)	.625 (15.875)	226-□133-ND	2.97	2.64	2.18	1.98
8B	.125 (3.18)	.75 (19.05)	226-□134-ND	3.08	2.74	2.27	2.06
	.125 (3.18)	.925 (23.50)	226-□135-ND	3.17	2.82	2.33	2.12
	.236 (6.00)	.50 (12.70)	226-□140-ND	2.88	2.56	2.12	1.92
	.236 (6.00)	.625 (15.875)	226-□141-ND	2.97	2.64	2.18	1.98
	.236 (6.00)	.75 (19.05)	226-□142-ND	3.08	2.74	2.27	2.06
	.236 (6.00)	.925 (23.50)	226-□143-ND	3.17	2.82	2.33	2.12
	.250 (6.35)	.50 (12.70)	226-□136-ND	2.88	2.56	2.12	1.92
	.250 (6.35)	.625 (15.875)	226-□137-ND	2.97	2.64	2.18	1.98
	.250 (6.35)	.75 (19.05)	226-□138-ND	3.08	2.74	2.27	2.06
	.250 (6.35)	.925 (23.50)	226-□139-ND	3.17	2.82	2.33	2.12
9A	.125 (3.18)	.50 (12.70)	226-□108-ND	3.42	3.04	2.51	2.28
	.125 (3.18)	.625 (15.875)	226-□109-ND	3.56	3.16	2.61	2.37
	.125 (3.18)	.75 (19.05)	226-□110-ND	3.67	3.26	2.69	2.45
	.125 (3.18)	.925 (23.50)	226-□111-ND	3.85	3.42	2.83	2.57
	.236 (6.00)	.50 (12.70)	226-□116-ND	3.42	3.04	2.51	2.28
	.236 (6.00)	.625 (15.875)	226-□117-ND	3.56	3.16	2.61	2.37
	.236 (6.00)	.75 (19.05)	226-□118-ND	3.67	3.26	2.69	2.45
	.236 (6.00)	.925 (23.50)	226-□119-ND	3.85	3.42	2.83	2.57
	.250 (6.35)	.50 (12.70)	226-□112-ND	3.42	3.04	2.51	2.28
	.250 (6.35)	.625 (15.875)	226-□113-ND	3.56	3.16	2.61	2.37
	.250 (6.35)	.75 (19.05)	226-□114-ND	3.67	3.26	2.69	2.45
	.250 (6.35)	.925 (23.50)	226-□115-ND	3.85	3.42	2.83	2.57
9B	.125 (3.18)	.50 (12.70)	226-□144-ND	3.42	3.04	2.51	2.28
	.125 (3.18)	.625 (15.875)	226-□145-ND	3.56	3.16	2.61	2.37
	.125 (3.18)	.75 (19.05)	226-□146-ND	3.67	3.26	2.69	2.45
	.125 (3.18)	.925 (23.50)	226-□147-ND	3.85	3.42	2.83	2.57
	.236 (6.00)	.50 (12.70)	226-□152-ND	3.42	3.04	2.51	2.28
	.236 (6.00)	.625 (15.875)	226-□153-ND	3.56	3.16	2.61	2.37
	.236 (6.00)	.75 (19.05)	226-□154-ND	3.67	3.26	2.69	2.45
	.236 (6.00)	.925 (23.50)	226-□155-ND	3.85	3.42	2.83	2.57
	.250 (6.35)	.50 (12.70)	226-□148-ND	3.42	3.04	2.51	2.28
	.250 (6.35)	.625 (15.875)	226-□149-ND	3.56	3.16	2.61	2.37
	.250 (6.35)	.75 (19.05)	226-□150-ND	3.67	3.26	2.69	2.45
	.250 (6.35)	.925 (23.50)	226-□151-ND	3.85	3.42	2.83	2.57

* For complete part number, substitute the corresponding color choice (listed below) for □:
1 = Black Gloss **2** = Aluminum Gloss **3** = Aluminum Matte **4** = Black Matte

Push-to-Turn Aluminum Knobs

DDSPT Model

Made in the USA

Side View

Top View

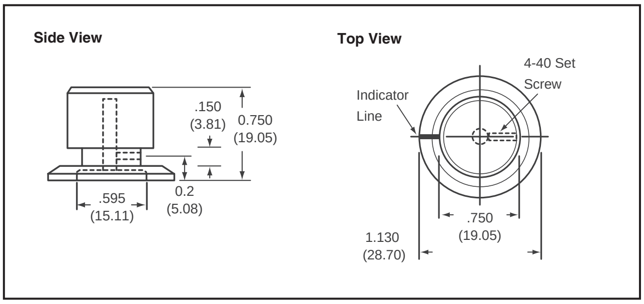

Features:

Precision aluminum machined surfaces from bar stock.

Anodized finish gloss or matte. Colors are clear or black. DDSPT knobs have a single 4-40 set screw.

Shaft Dia. Inch (mm)	Color/ Finish	Digi-Key Part No.	Price Each 1	10	50	100
.125 (3.18)	Clear/Gloss	226-1046-ND	16.76	14.90	12.30	11.18
.236 (6.00)	Clear/Gloss	226-1047-ND	16.76	14.90	12.30	11.18
.250 (6.35)	Clear/Gloss	226-1045-ND	16.76	14.90	12.30	11.18
.125 (3.18)	Black/Gloss	226-1049-ND	16.76	14.90	12.30	11.18
.236 (6.00)	Black/Gloss	226-1050-ND	16.76	14.90	12.30	11.18
.250 (6.35)	Black/Gloss	226-1048-ND	16.76	14.90	12.30	11.18
.125 (3.18)	Clear/Matte	226-1052-ND	16.76	14.90	12.30	11.18
.236 (6.00)	Clear/Matte	226-1053-ND	16.76	14.90	12.30	11.18
.250 (6.35)	Clear/Matte	226-1051-ND	16.76	14.90	12.30	11.18
.125 (3.18)	Black/Matte	226-1055-ND	16.76	14.90	12.30	11.18
.236 (6.00)	Black/Matte	226-1056-ND	16.76	14.90	12.30	11.18
.250 (6.35)	Black/Matte	226-1054-ND	16.76	14.90	12.30	11.18

Concentric Scale Dials

SERIES: 400, 500, 600, 3400

Made in the USA

Fig. 1

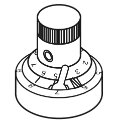

Fig. 2

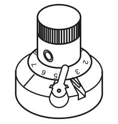

Fig. 3

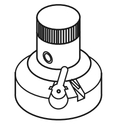

Fig. 4

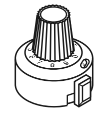

Features:

Anodized precision machined aluminum exterior. Accommodates potentiometer shaft - 1/4” (6.35mm) with 3/8” x 32-NEF-2A bushing. Requires only one square inch of panel space.

400 Series: 1” (25.40mm) **10 Turn Calibration**. This world class turns-counting dial is designed for multi-turn potentiometers up to ten turns or other rotary devices. The knob/scale attaches directly to the shaft, and the body of the dial is mounted rigidly to the panel, therefore, accurate readings with a ratio of 1000 to 1 for ten turns are provided with no backlash or reading error. Available with or without locking mechanism.

500 Series: 1” (25.40mm) **1 Turn Calibrated scale.**

600 Series: 1” (25.40mm) **1 Turn Uncalibrated dial.**

3400 Series: 7/8” (22.23mm) **20 Turn Calibration.** Calibrated dial designed for multi-turn potentiometers up to twenty turns or other rotary devices. The turns counting digit appears in the window as the dial is rotated. Mounting bracket plate is installed between panel and panel nut, with the dial mounting directly to the potentiometer shaft.

Fig.	Description	Digi-Key Part No.	Price Each 1	5	10	Kilo Part No.
	Commercial 10 Turn (Calibrated)					
1	Black Anodize, No Lock	411KL-ND	19.32	17.94	16.56	411
	Black Anodize, with Lock	412KL-ND	18.71	17.38	16.04	412
	Clear Anodize, No Lock	461KL-ND	17.77	16.50	15.23	461
	Clear Anodize, with Lock	462KL-ND	18.71	17.38	16.04	462
	Commercial Single Turn (Calibrated)					
2	Black Anodize, with Lock	512KL-ND	17.24	16.09	15.32	512
	Clear Anodize, No Lock	561KL-ND	13.28	12.39	11.80	561
	Clear Anodize, with Lock	562KL-ND	17.24	16.09	15.32	562
	Commercial Single Turn (Uncalibrated)					
3	Black Anodize, with Lock	612KL-ND	16.67	15.57	14.82	612
	Clear Anodize, with Lock	662KL-ND	16.67	15.57	14.82	662
	Commercial 20 Turn (Calibrated)					
4	Black Anodize, with Lock	3412KL-ND	16.70	15.51	14.31	3412
	Clear Anodize, with Lock	3462KL-ND	16.70	15.51	14.31	3462

CLAROSTAT

Washable, Conductive Plastic Potentiometers — 1/2 Watt

SERIES 392JB

SPECIFICATIONS:

- **Power Rating:** .5 watt at 70°C, voltage not to exceed rating
- **Electrical Rotation:** 295° ±5°
- **Effective Rotation:** 265° +0°, -10°
- **Mechanical Rotation:** 295° ±5°
- **Resistance Tolerance:** ±10% through 500K. ±20% at 1 Meg.
- **Dielectric Strength:** 750VAC for 60 seconds, at ATM pressure. 350VAC for 60 seconds, 3.4 in. Hg.
- **Working Voltage:** 350VDC across terminals, but power not to exceed rating
- **Operational Temperature Range:** -40°C ~ 120°C

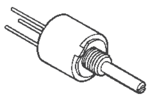

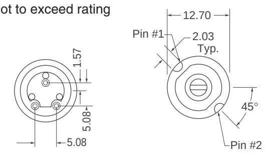

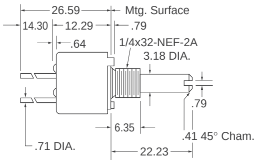

Series 392JB: Plastic Shaft and Bushing

RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500) 102 (1K) 252 (2.5K)	502 (5K) 103 (10K) 253 (25K) 503 (50K)	104 (100K) 254 (250K) 504 (500K) 105 (1 Meg.)

Resistance Range (Ω)	Digi-Key* Part No.	Price Each 1	10	50	100	250	500	Clarostat Part No.
100-1 Meg.	392JB□□□-ND	8.40	8.05	6.04	5.64	5.24	4.43	392JB (Value)

* For complete number, substitute corresponding code (from chart above) for □□□.

Conductive Plastic Potentiometers — 1/2 Watt

SERIES 590SX

SPECIFICATIONS:

- **Resistance Tolerance:** ±10%
- **Power Rating (Watts):** 0.5W at 70°C. Derated linearly to 0W at 120°C.
- **Mechanical and Electrical Rotation:** 295° ±5°
- **Working Voltage:** 350VAC maximum across end terminals, but within power rating
- **Effective Rotation:** 265° ±5°. Hardware included.

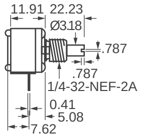

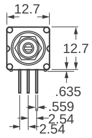

RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
102 (1K)	502 (5K)	103 (10K)

Resistance Range (Ω)	Digi-Key* Part No.	Price Each 1	10	50	100	Clarostat Part No.
1K-10K	590SX□□□-ND	6.48	5.94	5.40	4.86	590SX1N56S□□□SP

* For complete number, substitute corresponding code (from chart above) for □□□.

Conductive Plastic Potentiometers — 1 Watt

SERIES 381

The "Quiet One" with 1% dynamic noise and 5% independent linearity. Manufactured to MIL-R-94D specification. 381N — Bushing, Plain, 1/4" (6.35mm) long. Shaft 3/4" (19.05mm) FMS screwdriver slotted.

SPECIFICATIONS:

- **Resistance Tolerance:** Linear. ±10% up to 500K. ±20% above 500K.
- **Power Rating (Watts):** 1W maximum continuous power rating for linear taper, but voltage not to exceed rating. Full rating at 70°C, derated linearly to 0W at 120°C.
- **Mechanical and Electrical Rotation:** 300° ±5° without switch
- **Working Voltage:** 350VDC across end terminals, but power not to exceed rating
- **Effective Rotation:** 270° +0° -10°
- **Dielectric Strength:** 1,000VAC for 60 Seconds ATM

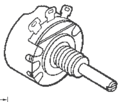

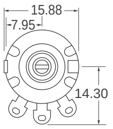

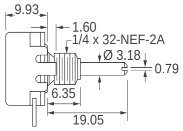

RESISTANCE CODE CHART
(Value — Linear)

Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500) 102 (1K) 252 (2.5K) 502 (5K) 103 (10K) 253 (25K)	503 (50K) 104 (100K) 254 (250K) 504 (500K) 105 (1 Meg) 255 (2.5 Meg) 505 (5 Meg)

Resistance Range (Ω)	Digi-Key* Part No.	Price Each 1	10	50	Clarostat Part No.
100-5 Meg.	381N□□□-ND	14.90	14.72	11.04	381N (Value)

* For complete number, substitute corresponding code (from chart above) for □□□.

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE ELECTRONICS CORP.

Instrumentation Knobs

Fig. 1	Fig. 2	Fig. 3	Fig. 4
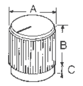 Skirted Round	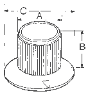 Round with Dial	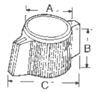 Double Bar	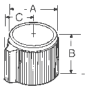 Single Bar

Fig.	Shaft Dia.	Dimensions A	B	C	Digi-Key Part No.	Price Each 1	10	100
1	3.18	12.70	12.95	3.81	8554K-ND	5.22	4.88	3.09
	6.35	17.78	15.49	4.32	8555K-ND	5.43	5.07	3.24
	6.35	22.86	20.07	5.59	8556K-ND	5.58	5.21	3.34
2	3.18	12.70	13.97	22.86	8558K-ND	6.54	6.11	3.88
	6.35	17.78	18.03	29.21	8559K-ND	7.83	7.31	4.64
	6.35	22.86	22.10	38.74	8560K-ND	8.91	8.32	5.31
3	6.35	17.78	15.49	29.21	8565K-ND	6.63	6.19	3.96
	6.35	22.86	16.26	38.74	8566K-ND	7.14	6.67	4.20
4	3.18	12.70	12.95	8.89	8567K-ND	7.86	7.34	4.70
	6.35	17.78	15.49	11.68	8568K-ND	9.03	8.43	5.39
	6.35	22.86	20.07	14.99	8569K-ND	9.78	9.13	5.83

Knobs have a spun aluminum inlay with a clear coat finish.

CLAROSTAT

Conductive Plastic Potentiometers — 1/4 Watt

SERIES 574SFX 575SSX

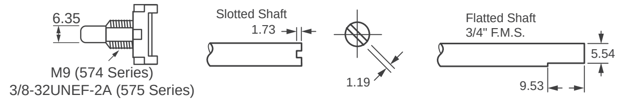

Series 574 and 575

Series 574

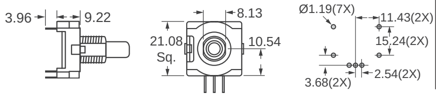

Series 575

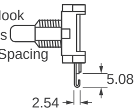

RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)
102 (1K) 103 (10K)	503 (50K) 104 (100K)

SPECIFICATIONS:

- **Resistance Tolerance:** ±20%
- **Power Rating (Watts):** 0.25W at 70°C
- **Mechanical and Electrical Rotation:** 300° ±5°
- **Working Voltage:** 350VAC maximum
- **Effective Rotation:** 270°

Hardware must be ordered separately.

Resistance Range (Ω)	Shaft Type	Digi-Key* Part No.	Price Each 1	10	50	100	Clarostat Part No.
10K-100K	Flatted	574SF□□□-ND	3.34	2.79	2.65	2.39	574SX1M48F□□□SD
10K-100K	Slotted	574SS□□□-ND	3.34	2.79	2.65	2.39	574SX1M48S□□□SD
1K-50K	Flatted	575SF□□□-ND	2.70	2.25	2.14	1.93	575SX1A48F□□□SS
1K-50K	Slotted	575SS□□□-ND	2.70	2.25	2.14	1.93	575SX1A48S□□□SS
Mounting Nut (574 Series)		02318603-ND	—	.14	.12	.11	02318603
Mounting Nut (575 Series)		01051301-ND	—	.15	.14	.12	01051301
Lock Washer		01070602-ND	—	.30	.27	.24	01070602

* For complete number, substitute corresponding code (from chart above) for □□□.

Conductive Plastic Potentiometers — 1/2 Watt, 1 Watt

SERIES 308N 308NPC 309NPC

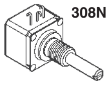
308N Series

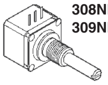
308NPC Series
309NPC Series

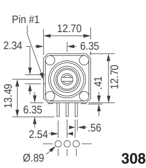

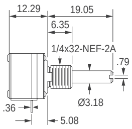

308NPC/309NPC Series
PC Terminals

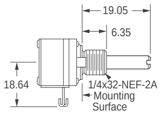

308N Series
Hook Terminals

RESISTANCE CODE CHART
(Resistance Value — Linear)

Code (Value)	Code (Value)	Code (Value)
101 (100) 251 (250) 501 (500) 102 (1K) 252 (2.5K)	502 (5K) 103 (10K) 253 (25K) 503 (50K) 104 (100K)	254 (250K) 504 (500K) 105 (1 Meg.) 255 (2.5 Meg.) 505 (5 Meg.)

SPECIFICATIONS:

- **Resistance Tolerance:** ±10% up to 500K. ±20% above.
- **Electrical and Mechanical Rotation:** 295° ±5°
- **Dielectric Strength:** 750VAC (308 Series), 900VAC (309 Series), for 60 SEC ATM
- **Working Voltage:** 350VDC across terminals
- **Power Rating:** .5 watt at 70°C (308 Series), 1 watt at 150°C (309 Series)
- **Operating Temperature:** -40° ~ 120°C (308 Series), -40°C ~ 150°C (309 Series)
- **Rotational Life:** 50,000 cycles under load (308 Series), 25,000 cycles under load (309 Series)

Resistance Range (Ω)	Digi-Key* Part No.	Price Each 1	10	50	100	250	Clarostat Part No.
100-5 Meg.	308N□□□-ND	12.04	11.80	8.85	8.26	7.67	308N (Value)
100-1 Meg.	308NPC□□□-ND	12.58	11.84	8.88	8.29	7.70	308NPC (Value)
100-5 Meg.	309NPC□□□-ND	12.57	12.04	9.03	8.43	7.83	309NPC (Value)

* For complete number, substitute corresponding code (from chart above) for □□□.
N = Shaft: 1/8 in. (3.18mm) diameter x 3/4 in. (19.05mm)

9mm Potentiometers

Specifications: Resistance Range: 5KΩ through 50KΩ • Tolerance: ±20% • Power Rating: .05w @ 50°C • Voltage Rating: $E = \sqrt{PR}$ but E ≤ 50VAC/20VDC • Rotation Angle: 300° ±5° • Life: 10000 turns minimum • Application: Audio mixer

Fig. 1

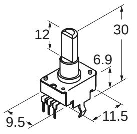

Shaft :Ø 6.0 mm

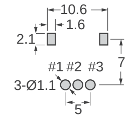

Footprint Applies to Figures 1, 2 & 3

Fig. 2

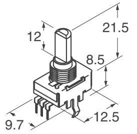

Shaft :Ø 6.0 mm

*** Hardware Included**

Fig. 3

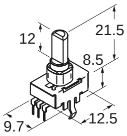

Shaft :Ø 6.0 mm

Fig. 4

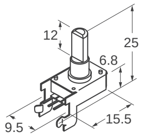

Shaft :Ø 6.0 mm

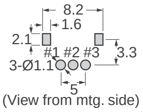

Footprint Applies to Figures 4, 5, & 6

Fig. 5

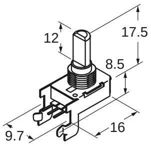

Shaft :Ø 6.0 mm

*** Hardware Included**

Fig. 6

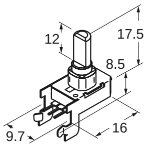

Shaft :Ø 6.0 mm

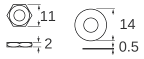

*** Hardware for Fig. 2 and Fig. 5**

12mm Potentiometers

Specifications: Resistance Range: 5KΩ through 50KΩ • Tolerance: ±20% • Power Rating: .05w @ 50°C • Voltage Rating: $E = \sqrt{PR}$ but E ≤ 50VAC/20VDC (Do not use DC Voltage) • Rotation Angle: 300° ±5° • Life: 15000 turns minimum • Application: Audio mixer

Fig. 7

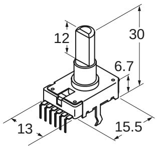

Shaft :Ø 6.0 mm

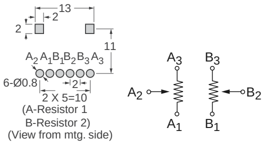

Footprint Applies to Figures 7, 8, & 9

Fig. 8

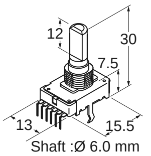

Shaft :Ø 6.0 mm

*** Hardware Included**

Fig. 9

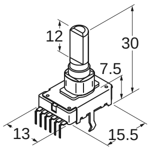

Shaft :Ø 6.0 mm

Fig. 10

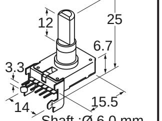

Shaft :Ø 6.0 mm

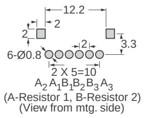

Footprint Applies to Figures 10, 11, & 12

Fig. 11

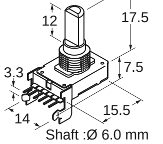

Shaft :Ø 6.0 mm

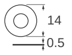

*** Hardware Included**

Fig. 12

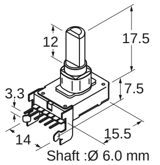

Shaft :Ø 6.0 mm

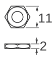

*** Hardware for Fig. 8 and Fig. 11**

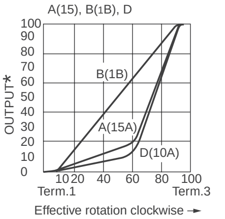

$$\frac{\text{*Output V. between term. 1 \& 2}}{\text{Operating V. between term.1 \& 3}} \times 100\%$$

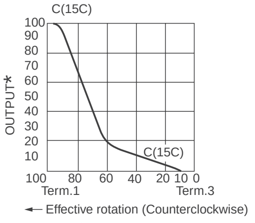

$$\frac{\text{*Output V. between term. 2 \& 3}}{\text{Operating V. between term.1 \& 3}} \times 100\%$$

Resistance Code Chart
Code (Resistance Value)

Code (Value)	Code (Value)
502 (5K)	103 (10K)
203 (20K)	503 (50K)

Fig.	Taper	Center Detent	Bushing	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic* Part No.
9MM Audio Potentiometers									
1	B	Y	None	P3A1□□□-ND	1.05	8.73	65.48	483.06	EVU-F3AF30B□□
	D	Y	None	P3B2□□□-ND	1.05	8.73	65.48	483.06	EVU-F3AF30D□□
	B	N	None	P3C3□□□-ND	1.12	9.33	69.98	516.26	EVU-F2AF30B□□
	D	N	None	P3D4□□□-ND	.99	8.22	61.65	454.84	EVU-F2AF30D□□
2	B	Y	Metal	P3E5□□□-ND	1.90	15.84	118.80	876.48	EVU-F3MFL3B□□
	D	Y	Metal	P3F6□□□-ND	1.90	15.84	118.80	876.48	EVU-F3MFL3D□□
	B	N	Metal	P3G7□□□-ND	1.84	15.33	114.98	848.26	EVU-F2MFL3B□□
	D	N	Metal	P3H8□□□-ND	1.84	15.33	114.98	848.26	EVU-F2MFL3D□□
3	B	Y	Plastic	P3I9□□□-ND	1.25	10.44	78.30	577.68	EVU-F3LFL3B□□
	D	Y	Plastic	P3J0□□□-ND	1.25	10.44	78.30	577.68	EVU-F3LFL3D□□
	B	N	Plastic	P3K1□□□-ND	1.19	9.90	74.25	547.80	EVU-F2LFL3B□□
	D	N	Plastic	P3L2□□□-ND	1.19	9.90	74.25	547.80	EVU-F2LFL3D□□
4	B	Y	None	P3M3□□□-ND	1.08	9.03	67.73	499.66	EVU-E3AF25B□□
	D	Y	None	P3N4□□□-ND	1.08	9.03	67.73	499.66	EVU-E3AF25D□□
	B	N	None	P3P5□□□-ND	1.02	8.49	63.68	469.78	EVU-E2AF25B□□
	D	N	None	P3Q6□□□-ND	1.02	8.49	63.68	469.78	EVU-E2AF25D□□
5	B	Y	Metal	P3R7□□□-ND	1.94	16.17	121.28	894.74	EVU-E3JFK4B□□
	D	Y	Metal	P3S8□□□-ND	1.94	16.17	121.28	894.74	EVU-E3JFK4D□□
	B	N	Metal	P3T9□□□-ND	1.87	15.60	117.00	863.20	EVU-E2JFK4B□□
	D	N	Metal	P3U0□□□-ND	1.87	15.60	117.00	863.20	EVU-E2JFK4D□□
6	B	Y	Plastic	P3W1□□□-ND	1.29	10.77	80.78	595.94	EVU-E3KFK4B□□
	D	Y	Plastic	P3X2□□□-ND	1.29	10.77	80.78	595.94	EVU-E3KFK4D□□
	B	N	Plastic	P3Y3□□□-ND	1.22	10.20	76.50	564.40	EVU-E2KFK4B□□
	D	N	Plastic	P3Z4□□□-ND	1.22	10.20	76.50	564.40	EVU-E2KFK4D□□
12MM Audio Potentiometers									
7	B	Y	None	P2A5□□□-ND	2.36	19.68	147.60	1088.96	EVJ-Y81F30B□□
	AC	Y	None	P2B6□□□-ND	2.36	19.68	147.60	1088.96	EVJ-YE1F30□□□
	A	N	None	P2C7□□□-ND	2.29	19.11	143.33	1057.42	EVJ-Y00F30A□□
	D	N	None	P2D8□□□-ND	2.29	19.11	143.33	1057.42	EVJ-Y00F30D□□
8	B	Y	Metal	P2E9□□□-ND	2.69	22.41	168.08	1240.02	EVJ-Y91F03B□□
	AC	Y	Metal	P2F0□□□-ND	2.69	22.41	168.08	1240.02	EVJ-YK1F03□□□
	A	N	Metal	P2G1□□□-ND	2.62	21.87	164.03	1210.14	EVJ-Y10F03A□□
	D	N	Metal	P2H2□□□-ND	2.62	21.87	164.03	1210.14	EVJ-Y10F03D□□
9	B	Y	Plastic	P2I3□□□-ND	2.57	21.39	160.43	1183.58	EVJ-Y96F03B□□
	AC	Y	Plastic	P2J4□□□-ND	2.57	21.39	160.43	1183.58	EVJ-YK6F03□□□
	A	N	Plastic	P2K5□□□-ND	2.51	20.88	156.60	1155.36	EVJ-Y15F03A□□
	D	N	Plastic	P2L6□□□-ND	2.51	20.88	156.60	1155.36	EVJ-Y15F03D□□
10	B	Y	None	P2M7□□□-ND	2.39	19.95	149.63	1103.90	EVJ-C31F25B□□
	AC	Y	None	P2N8□□□-ND	2.39	19.95	149.63	1103.90	EVJ-CV1F25□□□
	A	N	None	P2P9□□□-ND	2.33	19.38	145.35	1072.36	EVJ-C00F25A□□
	D	N	None	P2Q0□□□-ND	2.33	19.38	145.35	1072.36	EVJ-C00F25D□□
11	B	Y	Metal	P2R1□□□-ND	2.73	22.71	170.33	1256.62	EVJ-C51F02B□□
	AC	Y	Metal	P2S2□□□-ND	2.73	22.71	170.33	1256.62	EVJ-CC1F02□□□
	A	N	Metal	P2T3□□□-ND	2.66	22.14	166.05	1225.08	EVJ-C20F02A□□
	D	N	Metal	P2U4□□□-ND	2.66	22.14	166.05	1225.08	EVJ-C20F02D□□
12	B	Y	Plastic	P2W5□□□-ND	2.60	21.66	162.45	1198.52	EVJ-C56F02B□□
	AC	Y	Plastic	P2X6□□□-ND	2.60	21.66	162.45	1198.52	EVJ-CC6F02□□□
	A	N	Plastic	P2Y7□□□-ND	2.53	21.12	158.40	1168.64	EVJ-C25F02A□□
	D	N	Plastic	P2Z8□□□-ND	2.53	21.12	158.40	1168.64	EVJ-C25F02D□□

For complete number, substitute corresponding code (from above chart) for □□□.
* Call *Digi-Key* for help in assembling manufacturer part number.

Panasonic® Thumbwheel Potentiometers

Resistance Code Chart
Code (Resistance Value)

Code (Value)	Code (Value)
502 (5K) 103 (10K)	203 (20K) 503 (50K)

Specifications: • Resistance Range: 5KΩ through 50KΩ • Tolerance: ±20% • Power Rating: B taper - .03W, All others .01W • Voltage Rating: 50VAC/20VDC • Rotation Angle: 260° ±10° • Life: 10,000 turns minimum

Fig.	Taper	Center Detent	Digi-Key Part No.	Pricing 1	10	100	1,000	Panasonic* Part No.
1	A	N	P4A9□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA01A□□
	B	N	P4B0□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA01B□□
2	A	N	P4C1□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA06A□□
	B	N	P4D2□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA06B□□
1	A	Y	P4E3□□□-ND	2.32	19.32	144.90	1069.04	EVL-HFKA01A□□
	B	Y	P4F4□□□-ND	2.32	19.32	144.90	1069.04	EVL-HFKA01B□□
3	A	N	P4K9□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA05A□□
	B	N	P4L0□□□-ND	2.07	17.25	129.38	954.50	EVL-HFAA05B□□
3	A	Y	P4M1□□□-ND	2.32	19.32	144.90	1069.04	EVL-HFKA05A□□
	B	Y	P4N2□□□-ND	2.32	19.32	144.90	1069.04	EVL-HFKA05B□□

For complete number, substitute corresponding code (from chart above) for □□□.
* Call Digi-Key for help in assembling manufacturer part number.

Specifications: • Tolerance: ±30% • Power Rating: .01W • Rotation Angle: 270°±5° • Life: P4G5102-ND 5,000 turns minimum, All others 10,000 turns minimum • No center detent

Fig.	Dual Taper	Rated Voltage	Resistance (Ω)	Digi-Key Part No.	Pricing 1	10	100	Tape & Reel† Size	Tape & Reel† Pricing	Panasonic Part No.
4	B/B	20VAC	50K	P4J8503CT-ND	.98	8.15	74.96	800	391.20	EVU-TUAB16B54
5	C/C	22VAC	50K	P4I7503CT-ND	.98	8.15	74.96	1,200	489.00/M	EVU-TUHB07C54
6	A/A	0.5VAC	1K	P4G5102-ND	.88	7.32	54.94	—	—	EVU-TW1B24A13
7	C/C	10VAC	10K	P4H6103-ND	.88	7.32	54.94	—	—	EVU-TW7B45C14

† For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

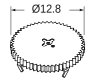

Fig. 2

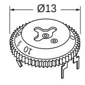

Footprint Applies to both Fig. 1 & 2

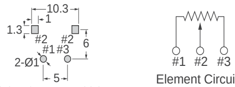

(View from mtg. side)

Element Circuit Diagram

Fig. 3

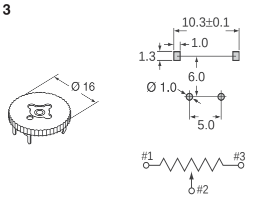

Fig. 4

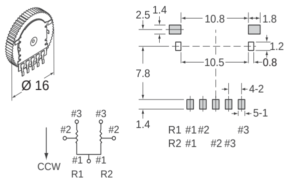

Fig. 5

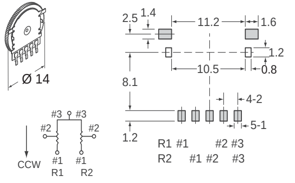

Fig. 6

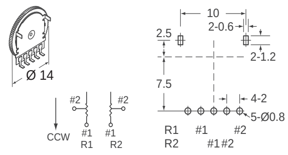

Fig. 7

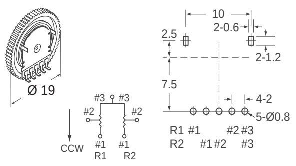

16mm Square Rotary Potentiometers with Detents

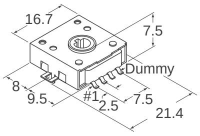

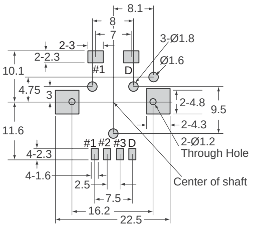

(View from mtg. side)

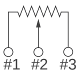

Recommended Applications: • Function switching and adjusting for control panels of car air conditioners
Features: • Small size • High click torque • External Dimensions: 16.7mm x 16.3mm x 6.0mm • Through hole for a shaft • Suitable for reflow soldering
Mechanical Specifications: • Rotation Torque: 40 mN·m ± 15 mN·m • Detent Pitch: (12, 7 active) 30° ± 3° • Rotation Angle: 360° Endless
Electrical Specifications: • Power Rating: 0.05W • Nominal Total Resistance: 10kΩ ±30% • Taper: B • Rotation Life: 30,000 nominal
Operating Temperature: -40°C ~ 85°C

Detent Number	1	2	3	4	5	6	7
Angle	90°	120°	150°	180°	210°	240°	270°
Output/Initial	5% max.	16.7% ± 5%	33.3% ± 5%	50% ± 5%	66.7% ± 5%	83.3% ± 5%	95% min.

Description	Digi-Key Part No.	Pricing 1	10	100	Digi-Key Part No.	T & R Pricing 350	Panasonic Part No.
10KΩ,12 Detents, SMD	P12427CT-ND	5.83	48.60	447.16	P12427TR-ND	1020.60	EWV-YC8B14

EVWAE 10mm GS Sensors

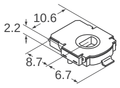

(View from parts side)

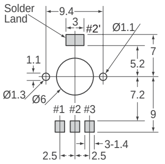

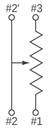

Low profile, long life sensor, which is suitable for detecting the angles of rotating axes, such as air conditioner dampers.

Recommended Applications:

• Detection of air conditioner damper angles • Detection of various control unit angles

Features: • Low profile (H=2.2mm) • Long operation life: 1 million operation cycles assured, a wide electrical output angle of a maximum 347°

Specifications: • Rating: 0.05W, 5V • Operating Force: 3 mN·m maximum • Linearity: ±3% maximum • Operation Life: 1,000,000 cycles (operation Angle ±30°) • Total Resistance: 10kΩ ±30%

Operating Temperature: -40°C ~ 85°C

Description	Digi-Key Part No.	Pricing 1	10	100	Digi-Key Part No.	T & R Pricing 1,500	Panasonic Part No.
10KΩ, 10mm, SMD	P12426CT-ND	1.72	14.31	131.65	P12426TR-ND	859.00/M	EVW-AE4001B14

5mm Square Single-Turn Cermet Potentiometers

MBG Series

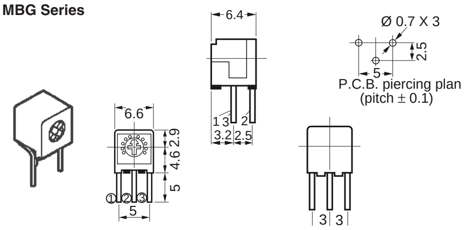

P.C.B. piercing plan
(pitch ± 0.1)

MSG Series

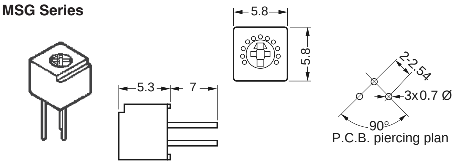

P.C.B. piercing plan

Panasonic/Matsushita Electric has announced a change in the Corporate Trademark.
Present trademark: ▲. New trademark: Ⓜ

SPECIFICATIONS:

Mechanical Characteristics: • Total rotation angle: Adjustment angle 200° nominal • Soldering: Within 5 seconds maximum at 300°C

Electrical Characteristics: • Resistance Range: 100Ω to 2 MΩ • Tolerance: ±20% • Power Rating: 0.5W at 70°C • Maximum Voltage: 200V • Dielectric Withstanding Voltage: 600VAC for one minute • Temperature Coefficient: ±100ppm/°C • Insulation Resistance: 100MΩ

Environmental Characteristics: • Operating Temperature Range: –55°C ~ 125°C • Vibration: 20G • Shock: 180G • Seal: MIL-R-22097 Immersion

Res. (Ω)	Digi-Key Part No. Side Adjust	Digi-Key Part No. Top Adjust	Pricing 1	10	100	1,000	5,000	Panasonic Part No. Side Adjust	Panasonic Part No. Top Adjust
500	MBG52-ND	—	1.59	13.23	121.67	814.00	756.00/M	EVM-MBGA01B52	—
1K	—	MSG13-ND	1.59	13.23	121.67	814.00	756.00/M	—	EVM-MSGA01B13
200K	MBG25-ND	—	1.59	13.23	121.67	814.00	756.00/M	EVM-MBGA01B25	—
500K	—	MSG55-ND	1.59	13.23	121.67	814.00	756.00/M	—	EVM-MSGA01B55
1M	MBG16-ND	—	1.59	13.23	121.67	814.00	756.00/M	EVM-MBGA01B16	—
2M	—	MSG26-ND	1.59	13.23	121.67	814.00	756.00/M	—	EVM-MSGA01B26

Slide Potentiometers for Audio Mixer Applications

Fig. 1 – Rail Guide Type

Features: • Wobbleless, smooth travel with wet slide feel • High reliability due to exclusive specular glossing resistive elements for low distortion and precise precious metal contacts • Precise attenuation characteristics • Long life 100,000 cycles minimum **Recommended Applications:** • Fader controls for audio mixers • Audio Equipment

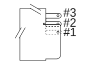

Single (EVA) Details

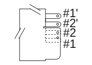

Dual (EVB) Details

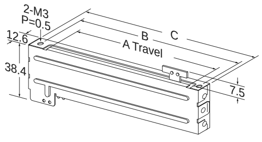

Travel = A	B	C
100	120	129.3
60	80	89.3

Fig. 2 – Thin Type

Features: • Thin and compact design with 8mm body height and 15mm width • Light sliding force and excellent operation • Highly accurate attenuation characteristics, maximum attenuation of more than 100dB, and low noise **Recommended Applications:** • Fade control for common type audio mixers

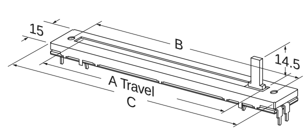

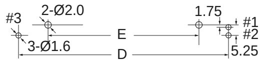

Travel = A	B	C	D	E
100	120	128	127.5	96
60	80	88	87.5	56

Fig. 3 – Mono Type

Features: • Slim type fader, 9mm width, 8mm height • Excellent cost performance applicable to audio mixers for amateur use **Recommended Applications:** • Fade control for audio mixers • Multi-Track Recorders • Paper position sensors for copiers

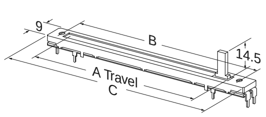

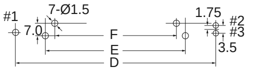

Travel = A	B	C	D	E	F
100	120	128	127.5	92.5	87.5
60	80	88	87.5	52.5	47.5

Fig. 4 – Standard Type

Features: • Excellent operational feeling • Low noise, long operational life, highly accurate attenuation **Recommended Applications:** • Fade control for audio mixers and musical key boards • Heat control or mode switching for car air conditioners • Measurement instruments

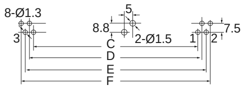

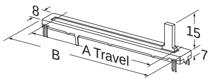

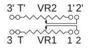

CIRCUIT DIAGRAM
(Note for Single: Do not connect dummy terminal 1' and others 3 and T- short terminals
1', 2', 3' and T'- dummy terminals
Note for Dual: 3 and T- short terminals
3' and T'- short terminals)

Travel = A	B	C	D	E	F
60	75	64	67	70	73
45	60	49	52	55	58

Fig. 5 – Motor Type

Features: • Excellent operation feeling, high speed driving and power saving design • Dust-proof mounting possible by 90° off set lever design **Recommended Application:** • Automated Audio Mixers (Common/Amateur Type)

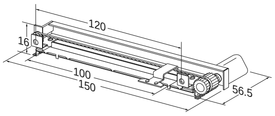

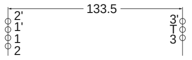

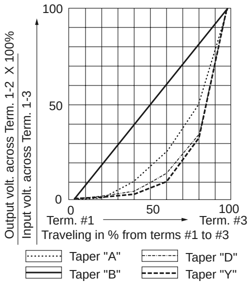

Fig.	Resist. (Ω)	Style	Travel (mm)	Single/ Dual	Taper	Digi-Key Part No.	Price Each 1	10	50	100	Panasonic Part No.
1	10K	Rail	100	S	Y	PJY100SY-ND	37.67	34.04	31.77	30.19	EVA-JYBP08Y14
	10K	Rail	100	D	Y	PJY100DY-ND	47.09	42.55	39.72	37.73	EVB-JYBP08Y14
	10K	Rail	60	S	Y	PJX060SY-ND	31.39	28.37	26.48	25.16	EVA-JXCP08Y14
2	10K	Thin	100	S	Y	PJQ100SY-ND	8.51	6.81	5.65	5.11	EVA-JQKR15Y14
	10K	Thin	100	S	A	PJQ100SA-ND	8.51	6.81	5.65	5.11	EVA-JQKR15A14
	10K	Thin	100	S	D	PJQ100SD-ND	8.51	6.81	5.65	5.11	EVA-JQKR15D14
	10K	Thin	100	S	B	PJQ100SB-ND	8.51	6.81	5.65	5.11	EVA-JQLR15B14
	10K	Thin	100	D	Y	PJQ100DY-ND	10.88	8.70	7.23	6.53	EVB-JQKR15Y14
	10K	Thin	100	D	A	PJQ100DA-ND	10.88	8.70	7.23	6.53	EVB-JQKR15A14
	10K	Thin	100	D	D	PJQ100DD-ND	10.88	8.70	7.23	6.53	EVB-JQKR15D14
	10K	Thin	60	S	Y	PNA060SY-ND	8.04	6.43	5.34	4.83	EVA-NADR15Y14
	10K	Thin	60	S	A	PNA060SA-ND	8.04	6.43	5.34	4.83	EVA-NADR15A14
	10K	Thin	60	S	D	PNA060SD-ND	8.04	6.43	5.34	4.83	EVA-NADR15D14
	10K	Thin	60	S	B	PNA060SB-ND	8.04	6.43	5.34	4.83	EVA-NAHR15B14
	10K	Thin	60	D	Y	PNA060DY-ND	10.40	8.32	6.91	6.24	EVB-NADR15Y14
	10K	Thin	60	D	A	PNA060DA-ND	10.40	8.32	6.91	6.24	EVB-NADR15A14
	10K	Thin	60	D	D	PNA060DD-ND	10.40	8.32	6.91	6.24	EVB-NADR15D14
3	10K	Mono	100	S	Y	PNF100SY-ND	7.09	5.68	4.71	4.26	EVA-NF4R15Y14
	10K	Mono	100	S	A	PNF100SA-ND	7.09	5.68	4.71	4.26	EVA-NF4R15A14
	10K	Mono	100	S	D	PNF100SD-ND	7.09	5.68	4.71	4.26	EVA-NF4R15D14
	10K	Mono	100	S	B	PNF100SB-ND	7.09	5.68	4.71	4.26	EVA-NF3R15B14
	10K	Mono	60	S	Y	PNE060SY-ND	7.11	5.69	4.72	4.27	EVA-NE4R15Y14
	10K	Mono	60	S	A	PNE060SA-ND	7.11	5.69	4.72	4.27	EVA-NE4R15A14
	10K	Mono	60	S	D	PNE060SD-ND	7.11	5.69	4.72	4.27	EVA-NE4R15D14
	10K	Mono	60	S	B	PNE060SB-ND	6.15	4.92	4.09	3.69	EVA-NE3R15B14
4	10K	Std.	60	S	A	PQ1060SA-ND	3.31	2.65	2.20	1.99	EWA-Q10C15A14
	10K	Std.	60	S	D	PQ1060SD-ND	3.31	2.65	2.20	1.99	EWA-Q10C15D14
	10K	Std.	60	S	B	PQ1060SB-ND	3.31	2.65	2.20	1.99	EWA-Q12C15B14
	10K	Std.	60	D	A	PQ3060DA-ND	4.02	3.22	2.67	2.42	EWA-Q30C15A14
	10K	Std.	60	D	D	PQ3060DD-ND	4.02	3.22	2.67	2.42	EWA-Q30C15D14
	10K	Std.	45	S	A	PP1045SA-ND	2.84	2.27	1.89	1.71	EWA-P10C15A14
	10K	Std.	45	S	D	PP1045SD-ND	2.84	2.27	1.89	1.71	EWA-P10C15D14
	10K	Std.	45	S	B	PP1045SB-ND	2.84	2.27	1.89	1.71	EWA-P12C15B14
	10K	Std.	45	D	A	PP3045DA-ND	3.55	2.84	2.36	2.13	EWA-P30C15A14
	10K	Std.	45	D	D	PP3045DD-ND	3.55	2.84	2.36	2.13	EWA-P30C15D14
5	10K	Motor	100	S	Y	PNC100SY-ND	47.09	42.55	39.72	37.73	EVB-NC2P088BL

Linear Position Sensors

Features: • High-performance sensor • Linearity ± 0.5% (EVAJ-Type) ± 0.2% (EVAW-Type) • Long life and high resolution

Specifications: • Voltage Rating: 5VDC maximum • Taper: B (EIAJ 1B) • Operating force 0.25 N for EVA-W, 0.5 N for EVA-J

Recommended Applications: • Detection of camera/camcorder lens positions • Detection of seat positions for automobiles • Detection of positions in tilt and telescopic mechanisms for automobiles • Detection of headlight angle for automobiles

Fig.	Total Resistance	Travel	Operating Life	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	10KΩ ± 30%	32.0mm	100K Cycles	P12338-ND	1.80	1.44	1.20	EVA-JGTJ20B14
2	30KΩ ± 30%	9.0mm	3M Cycles	P12339-ND	1.59	1.27	1.06	EVA-W7LR04B34

Fig. 1

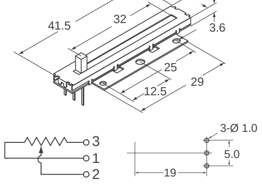

Fig. 2

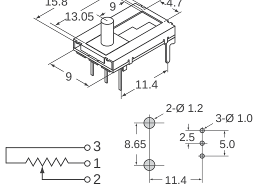

Panasonic®

Surface Mount Trimmer Potentiometers

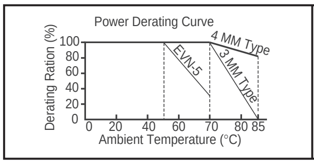

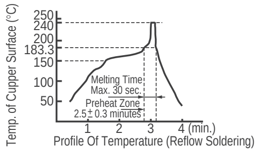

Profile for Reflow Soldering
Pre-Heat: 130°C ~ 160°C
Melting Temp.: TM = 183.3°C
Peak Time: Tp ≤ 240°C
Melting Temp.: TM ≤ 30s
Solder: Eutectic
Flux: Rosin Flux

Series P7J – Panasonic Series #EVM-7JSX30BXX

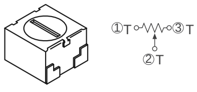

Features: • 3mm sealed type for flow and reflow soldering • Labor cost saving filmless sealed construction; **Resistance Range:** 220-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .05W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 10; **Soldering Heat:** 250°C 10s/260°C 5s

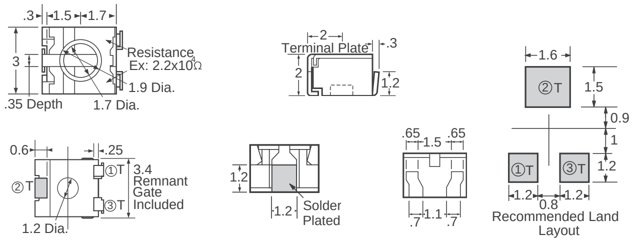

Series P1S – Panasonic Series #EVM-1SSX50BXX

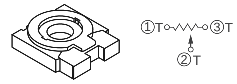

Features: • 3mm open frame type for reflow soldering • Excellent mounting efficiency; **Resistance Range:** 100-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

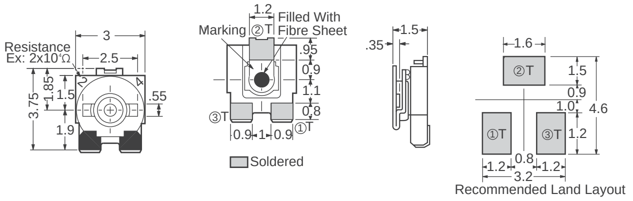

Series P1G – Panasonic Series #EVM-1GSX30BXX

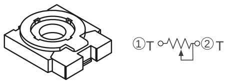

Features: • 4mm open frame type for reflow soldering • Two terminal construction; **Resistance Range:** 100-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

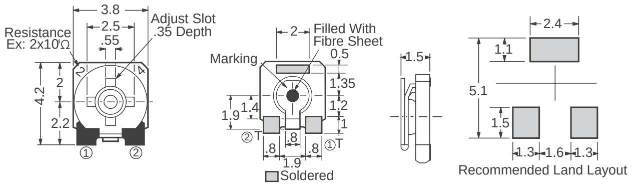

Series P1E – Panasonic Series #EVM-1ESX30BXX

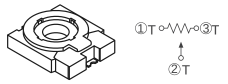

Features: • 4mm open frame type for reflow soldering • Inline terminal construction; **Resistance Range:** 100-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

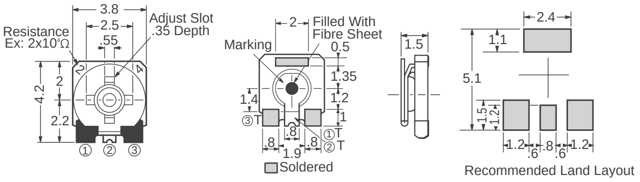

Series P1D – Panasonic Series #EVM-1DSX30BXX

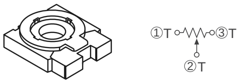

Features: • 4mm open frame type for reflow soldering • Tri-angle terminal construction; **Resistance Range:** 100-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 260°C 10s

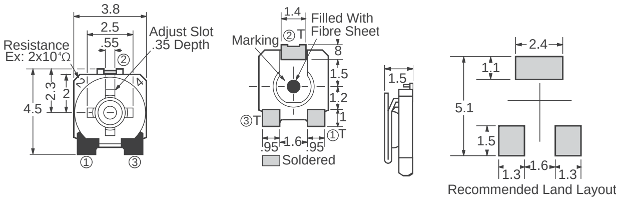

Series P5C – Panasonic Series #EVN-5CSX50BXX*

Series P5E – Panasonic Series #EVN-5ESX50BXX

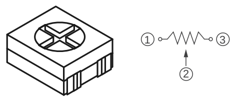

Features: • 3mm carbon dust proof type for reflow soldering • Excellent mounting efficiency for pick and place assembly; • Rotation stopper feature (EVN-5E); **Resistance Range:** 500-1MΩ; **Tolerance:** ±30%; **Taper:** Linear; **Power Rating:** .05W @50C; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C ~ 70°C; **Temperature Coefficient:** ±500 ppm/C(25°C ~ 70°C) / ±750 ppm/C (-20°C ~ 25°C); **Rotation Life:** 20; **Soldering Heat:** 280°C 3s

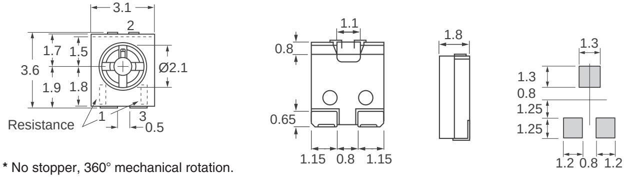

* No stopper, 360° mechanical rotation.

Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	2,000	Panasonic Part No.
P7J☐ ☐ ☐ CT-ND†	.63	5.28	48.53	P7J☐ ☐ ☐ TR-ND†	325.00	—	EVM-7JSX30BXX*
P1S☐ ☐ ☐ CT-ND†	.46	3.85	35.42	P1S☐ ☐ ☐ TR-ND†	—	237.00/M	EVM-1SSX50BXX*
P1G☐ ☐ ☐ CT-ND†	.44	3.65	33.58	P1G☐ ☐ ☐ TR-ND†	225.00	—	EVM-1GSX30BXX*
P1E☐ ☐ ☐ CT-ND†	.54	4.50	41.40	P1E☐ ☐ ☐ TR-ND†	277.00	—	EVM-1ESX30BXX*
P1D☐ ☐ ☐ CT-ND†	.50	4.13	37.95	P1D☐ ☐ ☐ TR-ND†	254.00	—	EVM-1DSX30BXX*
P5C☐ ☐ ☐ CT-ND†	.31	2.55	23.46	P5C☐ ☐ ☐ TR-ND†	—	157.00/M	EVN-5CSX50BXX*
P5E☐ ☐ ☐ CT-ND†	.28	2.35	21.62	P5E☐ ☐ ☐ TR-ND†	—	145.00/M	EVN-5ESX50BXX*

* For assistance with Panasonic Part Number please call Digi-Key.
† For complete number, substitute corresponding code (from chart) for ☐ ☐ ☐.

Digi-Key® **SMT Trimmer Potentiometers Kits**

P1E-KIT-ND	10 each of Series P1E, values 100 - 1.0M (130 pieces)	**$43.95**
P1D-KIT-ND	10 each of Series P1D, values 100 - 1.0M (130 pieces)	**$43.95**

Code Resistance Value For P7J Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
331 (330) 474 (470K)	332 (3.3K)	223 (22K)	333 (33K)	104 (100K)	224 (220K)	334 (330K)

Code Resistance Value For P1 / P5C Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
201 (200) 503 (50K)	501 (500) 104 (100K)	102 (1.0K) 204 (200K)	202 (2.0K) 504 (500K)	502 (5.0K) 105 (1.0M)	103 (10K)	203 (20K)

Code Resistance Value For P5E Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
501 (500) 104 (100K)	102 (1K) 204 (200K)	202 (2K) 504 (500K)	502 (5K) 105 (1M)	103 (10K)	203 (20K)	503 (50K)

(Continued)

Series P2N – Panasonic Series #EVM-2NSX80BXX

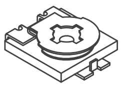

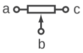

Features: • 2mm open frame type for reflow soldering; **Resistance Range:** 100-1MΩ; **Tolerance:** ±25%; **Taper:** B; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 0.5-10 mN; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-40°C ~ 100°C); **Rotation Life:** 10; **Soldering Heat:** 240°C 5s

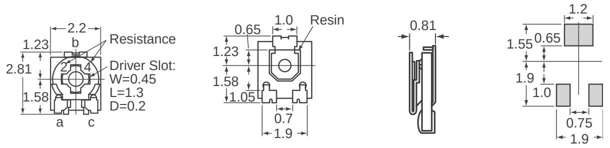

Series P3R – Panasonic Series #EVM-3RSX50BXX

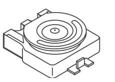

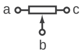

Features: • 3mm open frame type for reflow soldering; **Resistance Range:** 500-1MΩ; **Tolerance:** ±25%; **Taper:** B; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20.; **Rotation Torque:** 1-20 mN; **Operating Temperature:** -40°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (-40°C ~ 100°C); **Rotation Life:** 10; **Soldering Heat:** 240°C 5s

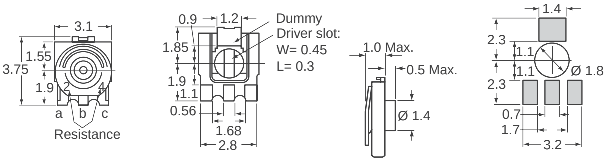

Series P2W – Panasonic Series #EVM-2WSX80BXX

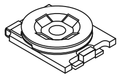

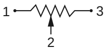

Features: • 2mm open frame type for reflow soldering; **Resistance Range:** 200-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20.; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

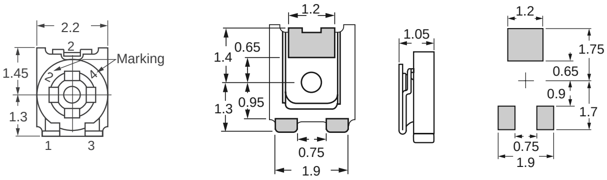

Series P2X – Panasonic Series #EVM-2XSX50BXX

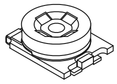

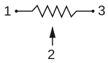

Features: • 2mm open frame type for reflow soldering; **Resistance Range:** 200-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 10-150 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

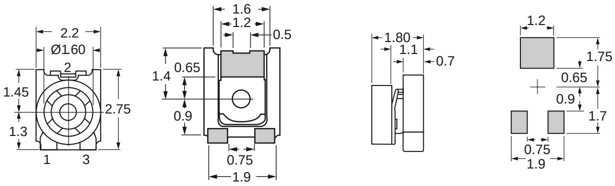

Series P3Y – Panasonic Series #EVM-3YSX50BXX

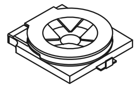

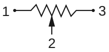

Features: • 3mm open frame type for reflow soldering; **Resistance Range:** 100-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

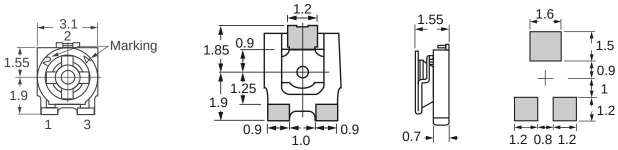

Series P3V – Panasonic Series #EVM-3VSX50BXX

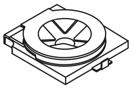

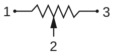

Features: • 3mm open frame type for reflow soldering • Rotation stopper feature; **Resistance Range:** 500-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 240 ±20; **Rotation Torque:** 20-100 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

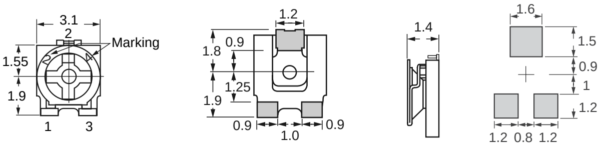

Series P3W – Panasonic Series #EVM-3WSX80BXX

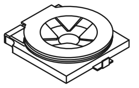

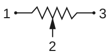

Features: • 3mm open frame type for reflow soldering; **Resistance Range:** 100-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .15W; **Adjustment Angle:** 240 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C ~ 85°C; **Temperature Coefficient:** ±250 ppm/C (-20°C ~ 85°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

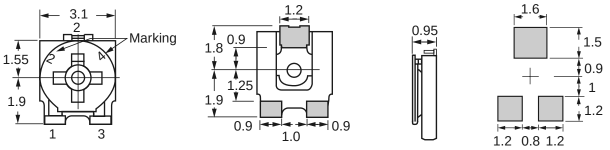

Series P1U – Panasonic Series #EVM-1USX30BXX

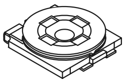

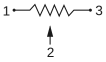

Features: • 4mm open frame type for reflow soldering; **Resistance Range:** 100-1MΩ; **Tolerance:** ±25%; **Taper:** Linear; **Power Rating:** .2W; **Adjustment Angle:** 260 ±20; **Rotation Torque:** 20-200 gF; **Operating Temperature:** -20°C ~ 100°C; **Temperature Coefficient:** ±250 ppm/C (25°C ~ 100°C); **Rotation Life:** 20; **Soldering Heat:** 240°C 5s

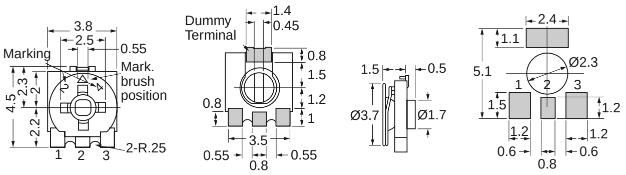

Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,000	2,000	3,000	Panasonic Part No.
P2N□□□CT-ND†	.66	5.48	50.37	P2N□□□TR-ND†	—	—	329.00/M	EVM-2NSX80BXX*
P2W□□□CT-ND†	.63	5.25	48.30	P2W□□□TR-ND†	—	—	323.00/M	EVM-2WSX80BXX*
P2X□□□CT-ND†	.61	5.05	46.46	P2X□□□TR-ND†	—	311.00/M	—	EVM-2XSX50BXX*
P3R□□□CT-ND†	.81	6.76	62.16	P3R□□□TR-ND†	—	405.00/M	—	EVM-3RSX50BXX*
P3Y□□□CT-ND†	.42	3.50	32.20	P3Y□□□TR-ND†	—	215.00/M	—	EVM-3YSX50BXX*
P3V□□□CT-ND†	.52	4.35	40.02	P3V□□□TR-ND†	—	268.00/M	—	EVM-3VSX50BXX*
P3W□□□CT-ND†	.52	4.35	40.02	P3W□□□TR-ND†	—	—	268.00/M	EVM-3WSX80BXX*
P1U□□□CT-ND†	.61	5.05	46.46	P1U□□□TR-ND†	311.00	—	—	EVM-1USX30BXX*

* For assistance with Panasonic Part Number, please call Digi-Key.

† For complete number, substitute corresponding code (from chart) for □□□.

Code Resistance Value For P2N / P2W / P2X Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
201 (200) 203 (20K)	501 (500) 503 (50K)	102 (1.0K) 104 (100K)	202 (2.0K) 204 (200K)	502 (5.0K) 504 (500K)	103 (10K) 105 (1.0M)

Code Resistance Value For P3Y / P3W / P1U Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
101 (100) 203 (20K)	201 (200) 503 (50K)	501 (500) 104 (100K)	102 (1.0K) 204 (200K)	202 (2.0K) 504 (500K)	502 (5.0K) 105 (1.0M)	103 (10K)

Code Resistance Value For P3R / P3V Series

Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)	Code (Value)
501 (500) 104 (100K)	102 (1K) 204 (200K)	202 (2K) 504 (500K)	502 (5K) 105(1M)	103 (10K)	203 (20K)	503 (50K)

6mm Square Ceramic Trimmer Potentiometers

EVM-EAG / EAS / EGG / EGS Series:

Dustproof Type with Knob Protection: Features: • No readjustment needed through knob protected construction • Excellent mounting efficiency due to cubic shape • Automated adjustment available. Face side: Standard cross slot screwdriver suited to automatic adjustment applicable. Back side: Penetrated slot for easy driving. **Applications:** • Audio visual equipment, home appliances.

Specifications: • Rotation Torque: 20 to 300gf • Stopper Strength: 500gf • Rotation Angle: 210°C ±20°C. • TCR: ±200ppm (-30°C ~ 100°C) • Nominal Total Resistance & Tolerance: ±25% • Power Rating & Maximum Operating Voltage: 0.3W, 100V (70°C) • Residual Resistance: 10Ω maximum for R≤1kΩ, 1% maximum for 1kΩ<R<100kΩ, 5% maximum for R≥100kΩ • Soldering Heat: 5s maximum 240 to 280°C, 3s maxium 280 to 300°C • Rotation Life: 50 turns

EVM-EYG and EVM-EYS Series:

Specifications: • Rotation Torque: 20 to 300gf • Stopper Strength: 500gf • Rotation Angle: 210°C ±20°C • TCR: ±100ppm (-40°C – 120°C) • Nominal Total Resistance & Tolerance: ±20% • Power Rating and Maximum Operating Voltage: 0.5W, 200V (70°C) • Residual Resistance: 2% • Soldering Heat: 260°C ±5°C for 5 ±1 Second • Rotation Life: 50 turns

EVM-AAS Series:

Specifications: • Resistance Range: 100Ω – 1mΩ • Tolerance: ±25% • Taper: Linear • Residual Resistance: 2% • Wattage Rating: 0.3W • Volt Rating: 100V • TCR: ±200ppm • Torque: 20 to 300gf • Stopper Strength: 350gf • Rotational Angle: 240°C ±20°C • Operational Temperature: -30°C ~ 100°C

EVM-F6S Series:

Features: • Higher performance dustproof type • Excellent reliability for heat and humidity • High speed radial automatic mounting and excellent mounting performance

Applications: • Audio visual equipment, home appliances

Specifications: • Rotation Torque: 20 to 300gf • Stopper Strength: 350gf • Rotation Angle: 240°C ±20°C • TCR: ±300ppm (-30°C ~ 100°C) • Nominal Total Resistance & Tolerance: ±25% • Power Rating & Maximum Operating Voltage: 0.3W, 100V (70°C) • Residual Resistance: 10Ω maximum for R≤1kΩ, 1% maximum for 1kΩ<R<100kΩ, 5% maximum for R≥100kΩ • Soldering Heat: 5s maximum 240°C ~ 280°C, 3s maximum 280°C ~ 300°C • Rotation Life: 50 turns.

Fig. 1 - Top Adjust

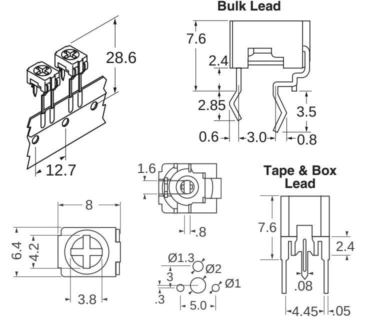

Fig. 2 - Side Adjust

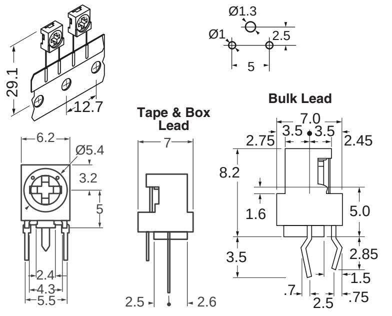

Fig. 3 - Top Adjust

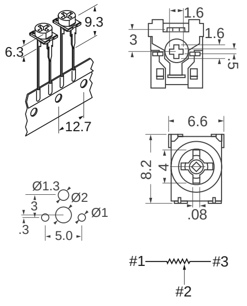

Fig. 4 - Top Adjust

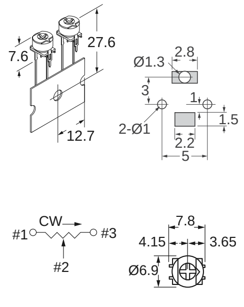

EVM-EAG Series - Top Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
	100	EAG12BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B12
	200	EAG22BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B22
	500	EAG52BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B52
	1K	EAG13BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B13
	2K	EAG23BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B23
	5K	EAG53BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B53
1	10K	EAG14BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B14
	20K	EAG24BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B24
	50K	EAG54BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B54
	100K	EAG15BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B15
	200K	EAG25BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B25
	500K	EAG55BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B55
	1M	EAG16BK-ND	.73	6.05	55.66	242.00	EVM-EAGA00B16

EVM-EGG Series - Side Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
	100	EGG12BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B12
	200	EGG22BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B22
	500	EGG52BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B52
	1K	EGG13BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B13
	2K	EGG23BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B23
	5K	EGG53BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B53
2	10K	EGG14BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B14
	20K	EGG24BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B24
	50K	EGG54BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B54
	100K	EGG15BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B15
	200K	EGG25BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B25
	500K	EGG55BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B55
	1M	EGG16BK-ND	.71	5.88	54.05	235.00	EVM-EGGA00B16

EVM-EAS Series - Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	5,000	Panasonic Part No.
	100	EAS12CT-ND	.71	5.88	54.05	EAS12TB-ND	362.00	336.00/M	EVM-EASA00B12
	200	EAS22CT-ND	.71	5.88	54.05	EAS22TB-ND	362.00	336.00/M	EVM-EASA00B22
	500	—	—	—	—	EAS52TB-ND	362.00	336.00/M	EVM-EASA00B52
	1K	EAS13CT-ND	.71	5.88	54.05	EAS13TB-ND	362.00	336.00/M	EVM-EASA00B13
	2K	EAS23CT-ND	.71	5.88	54.05	EAS23TB-ND	362.00	336.00/M	EVM-EASA00B23
	5K	EAS53CT-ND	.71	5.88	54.05	EAS53TB-ND	362.00	336.00/M	EVM-EASA00B53
1	10K	—	—	—	—	EAS14TB-ND	362.00	336.00/M	EVM-EASA00B14
	20K	EAS24CT-ND	.71	5.88	54.05	EAS24TB-ND	362.00	336.00/M	EVM-EASA00B24
	50K	—	—	—	—	EAS54TB-ND	362.00	336.00/M	EVM-EASA00B54
	100K	—	—	—	—	EAS15TB-ND	362.00	336.00/M	EVM-EASA00B15
	200K	—	—	—	—	EAS25TB-ND	362.00	336.00/M	EVM-EASA00B25
	500K	EAS55CT-ND	.71	5.88	54.05	EAS55TB-ND	362.00	336.00/M	EVM-EASA00B55
	1M	EAS16CT-ND	.71	5.88	54.05	EAS16TB-ND	362.00	336.00/M	EVM-EASA00B16

EVM-EGS Series - Side Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	5,000	Panasonic Part No.
	100	EGS12CT-ND	.73	6.05	55.66	EGS12TB-ND	372.00	346.00/M	EVM-EGSA00B12
	200	EGS22CT-ND	.73	6.05	55.66	EGS22TB-ND	372.00	346.00/M	EVM-EGSA00B22
	500	EGS52CT-ND	.73	6.05	55.66	EGS52TB-ND	372.00	346.00/M	EVM-EGSA00B52
	1K	EGS13CT-ND	.73	6.05	55.66	EGS13TB-ND	372.00	346.00/M	EVM-EGSA00B13
	2K	EGS23CT-ND	.73	6.05	55.66	EGS23TB-ND	372.00	346.00/M	EVM-EGSA00B23
	5K	EGS53CT-ND	.73	6.05	55.66	EGS53TB-ND	372.00	346.00/M	EVM-EGSA00B53
2	10K	—	—	—	—	EGS14TB-ND	372.00	346.00/M	EVM-EGSA00B14
	20K	EGS24CT-ND	.73	6.05	55.66	EGS24TB-ND	372.00	346.00/M	EVM-EGSA00B24
	50K	EGS54CT-ND	.73	6.05	55.66	EGS54TB-ND	372.00	346.00/M	EVM-EGSA00B54
	100K	—	—	—	—	EGS15TB-ND	372.00	346.00/M	EVM-EGSA00B15
	200K	—	—	—	—	EGS25TB-ND	372.00	346.00/M	EVM-EGSA00B25
	500K	EGS55CT-ND	.73	6.05	55.66	EGS55TB-ND	372.00	346.00/M	EVM-EGSA00B55
	1M	—	—	—	—	EGS16TB-ND	372.00	346.00/M	EVM-EGSA00B16

EVM-EYG Series — High Grade, Top Adjust (Bulk)

Fig.	Res. (Ω)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
	2K	EYG23BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B23
	10K	EYG14BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B14
	20K	EYG24BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B24
1	50K	EYG54BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B54
	100K	EYG15BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B15
	200K	EYG25BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B25
	500K	EYG55BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B55
	1M	EYG16BK-ND	.79	6.58	60.49	263.00	EVM-EYGA00B16

EVM-EYS Series — High Grade, Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Tape & Box Pricing 1,000	5,000	10,000	Panasonic Part No.
	2K	EYS23TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B23
	5K	EYS53TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B53
	10K	EYS14TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B14
	20K	EYS24TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B24
1	50K	EYS54TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B54
	100K	EYS15TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B15
	200K	EYS25TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B25
	500K	EYS55TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B55
	1M	EYS16TB-ND	405.00	375.00/M	351.00/M	EVM-EYSA00B16

EVM-F6S Series — Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	5,000	Panasonic Part No.
	1K	—	—	—	—	F6SA13TB-ND	213.00	197.00/M	EVM-F6SA00B13
	50K	F6SA54CT-ND	.38	3.28	27.20	—	—	—	EVM-F6SA00B54
3	200K	F6SA25CT-ND	.38	3.28	27.20	—	—	—	EVM-F6SA00B25
	500K	F6SA55CT-ND	.38	3.28	27.20	F6SA55TB-ND	213.00	197.00/M	EVM-F6SA00B55
	1M	F6SA16CT-ND	.38	3.28	27.20	—	—	—	EVM-F6SA00B16

EVM-AAS Series - Top Adjust (Tape)

Fig.	Res. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Box Pricing 1,000	Panasonic Part No.
	100	AAS12CT-ND	.50	4.15	38.18	AAS12TB-ND	255.00	EVM-AASA00B12
	200	AAS22CT-ND	.50	4.15	38.18	AAS22TB-ND	255.00	EVM-AASA00B22
	500	AAS52CT-ND	.50	4.15	38.18	AAS52TB-ND	255.00	EVM-AASA00B52
	1K	AAS13CT-ND	.50	4.15	38.18	AAS13TB-ND	255.00	EVM-AASA00B13
	2K	AAS23CT-ND	.50	4.15	38.18	AAS23TB-ND	255.00	EVM-AASA00B23
	5K	AAS53CT-ND	.50	4.15	38.18	AAS53TB-ND	255.00	EVM-AASA00B53
4	10K	AAS14CT-ND	.50	4.15	38.18	AAS14TB-ND	255.00	EVM-AASA00B14
	20K	AAS24CT-ND	.50	4.15	38.18	AAS24TB-ND	255.00	EVM-AASA00B24
	50K	AAS54CT-ND	.50	4.15	38.18	AAS54TB-ND	255.00	EVM-AASA00B54
	100K	AAS15CT-ND	.50	4.15	38.18	AAS15TB-ND	255.00	EVM-AASA00B15
	200K	AAS25CT-ND	.50	4.15	38.18	AAS25TB-ND	255.00	EVM-AASA00B25
	500K	AAS55CT-ND	.50	4.15	38.18	AAS55TB-ND	255.00	EVM-AASA00B55
	1M	AAS16CT-ND	.50	4.15	38.18	AAS16TB-ND	255.00	EVM-AASA00B16

Panasonic®

Ceramic Trimmer Potentiometers

Series EVM-L4G, EVM-L1G, EVM-5AG, and EVM-4LG

Specifications:

• Resistance Range: 100Ω to 1MΩ • Taper: Linear • Tolerance: 25% • Residual: EVM-L4G and EVM-L1G: 5%; EVM-5AG and EVM-4LG: 2% • Wattage Rating: EVM-L4G and EVM-L1G: .2W; EVM-5AG and EVM-4LG: .3W • Voltage Rating: EVM-L4G and EVM-L1G: 50V; EVM-5AG and EVM-4LG: 100V • TCR: EVM-L4G and EVM-L1G: ±300ppm; EVM-5AG and EVM-4LG: ±200ppm • Torque: 20-250 gf • Stopper Strength: EVM-L4G and EVM-L1G: 400gF; EVM-5AG and EVM-4LG: 300gF • Angle of Rotation: 200° ±20° • Operating Temperature: -30°C ~ 100°C

Fig. 1 — 4mm, Vertical

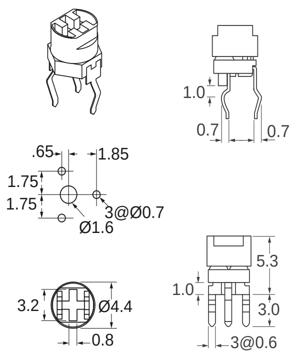

Fig. 2 — 4mm, Right Angle

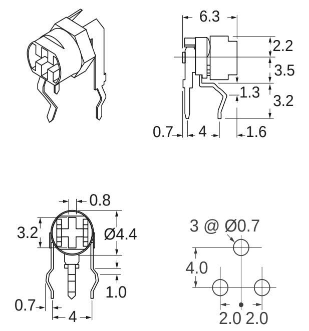

Fig. 3 — 5mm, Vertical

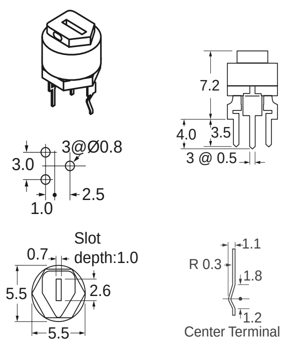

Fig. 4 — 6mm, Vertical

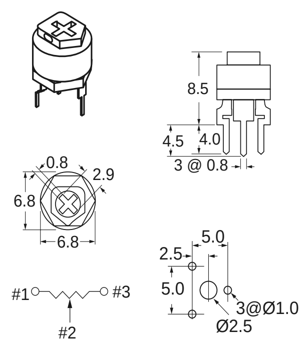

Fig.	Res. (Ohms)	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
EVM-L4G Series — 4mm, Vertical, Top Adjust							
1	100	L4G12BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B12
	200	L4G22BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B22
	500	L4G52BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B52
	1K	L4G13BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B13
	2K	L4G23BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B23
	10K	L4G14BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B14
	100K	L4G15BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B15
	200K	L4G25BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B25
	500K	L4G55BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B55
	1M	L4G16BK-ND	.77	6.43	59.11	257.00	EVM-L4GA00B16
EVM-L1G Series — 4mm, Right Angle, Side Adjust							
2	100	L1G12BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B12
	200	L1G22BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B22
	500	L1G52BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B52
	1K	L1G13BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B13
2	5K	L1G53BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B53
	10K	L1G14BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B14
	20K	L1G24BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B24
	50K	L1G54BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B54
	100K	L1G15BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B15
	200K	L1G25BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B25
	500K	L1G55BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B55
	1M	L1G16BK-ND	.83	6.88	63.25	275.00	EVM-L1GA00B16
EVM-5AG Series — 5mm, Vertical, Top Adjust							
3	100K	5AG15BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B15
	200K	5AG25BK-ND	.71	5.95	54.74	238.00	EVM-5AGA00B25
EVM-4LG Series — 6mm, Vertical, Top Adjust							
4	100	4LG12BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B12
	500	4LG52BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B52
	200K	4LG25BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B25
	500K	4LG55BK-ND	.59	4.93	45.31	197.00	EVM-4LGA00B55

8mm Trimmer Potentiometers EVN-Series

K4A Series

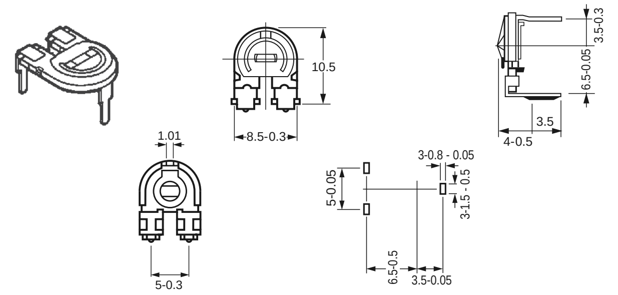

K0A Series

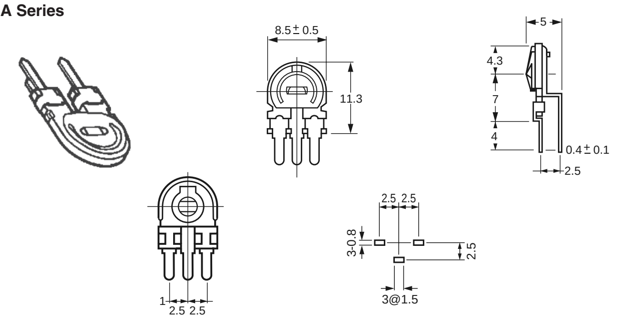

Specifications:

• Resistance Range: 300 to 2MΩ • Taper: Linear • Tolerance: ±30% • Working Voltage: 200V max.imum • Power Rating: 0.1 W/50°C • Residual Resistance: Up to 1kΩ: 10Ω maximum Over 1kΩ: 5% of total resistance • Rotation Angle: 260° ± 20° • Rotation Torque: 0.4 to 4.2 in-oz. • Stop Strength: 1 inch/pound • Operating Temperature: –25°C ~ 75°C

Res. Ohms	Digi-Key Part No. Laydown Version	Digi-Key Part No. Standup Version	Pricing						Panasonic Part No. Laydown Version	Panasonic Part No. Standup Version
			1	10	100	1,000	5,000	10,000		
300	—	K0A32-ND	.31	2.59	23.81	159.00	148.00/M	138.00/M	—	EVN-64AA00B32
2K	K4A23-ND	K0A23-ND	.31	2.59	23.81	159.00	148.00/M	138.00/M	EVN-65AA00B23	EVN-64AA00B23

Panasonic® 6mm Carbon Trimmer Potentiometers

EVN-D2A (Side Adjust)

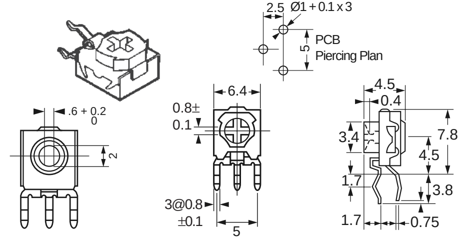

EVN-D8A (Top Adjust)

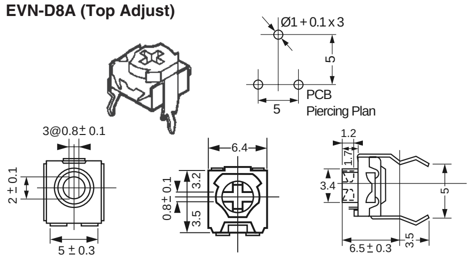

EVN-DCA (Side Adjust)

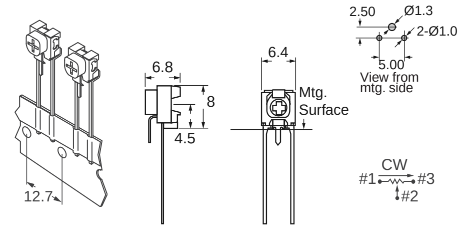

EVN-DJA (Top Adjust)

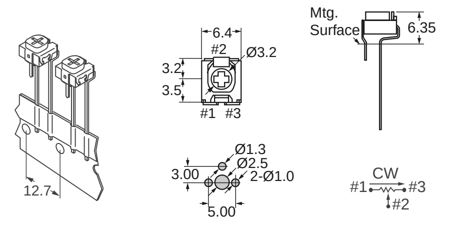

SPECIFICATIONS:

Mechanical: • **Rotation Angle:** 210° ±20° • **Rotation Torque:** 20 ~ 250g-cm • **Stopper Strength:** 750gfcm • **Soldering Heat:** 240°C ~ 280°C, 5 seconds maximum; 280°C ~ 300°C, 3 seconds maximum • **Rotation life:** 100 cycles

Electrical: • Power rating: 0.1W (when under 50°C) • Maximum operating voltage: 50V • Taper: B (Linear) • Resistance: 200Ω ~ 1MΩ • Tolerance: ±30%.

FEATURES:

• Miniature size, lightweight, 6.4 x 6.7mm • Suitable for automatic insertion as square housing • Suitable for automatic adjustment as stable rotation torque • Dust proof and flux proof construction • Adjustable from both top and bottom sides • Snap-in mounting terminal for EVN-D8A/D2A

Applications:

• Consumer equipment such as TV, VTR (VCR), stereo, radio.

Panasonic

Carbon Trimmer Potentiometers

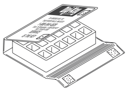

Digi-Key® Assortment Kit
14 Panasonic 6mm Carbon Trimmer Potentiometers
Panasonic Quality

Cat. No. **DXA-KIT-ND**.............. **$29.95**

140 6mm Carbon Trimmer Potentiometers: Price includes convenient divided notebook style storage case with bin guide for easy storage and quick access.

EVN-D2A Side Adjust (Bulk) Series
EVN-D8A Top Adjust (Bulk) Series

Res. (Ω)	Digi-Key Part No. Side Adjust Version	Digi-Key Part No. Top Adjust Version	Bulk Pricing 1	10	100	500	1,000	Panasonic Part No. Side Adjust Version	Panasonic Part No. Top Adjust Version
200	D1AA22-ND*	D4AA22-ND*	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B22	EVN-D8AA03B22
500	D1AA52-ND*	D4AA52-ND	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B52	EVN-D8AA03B52
1K	D1AA13-ND*	D4AA13-ND*	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B13	EVN-D8AA03B13
2K	D1AA23-ND	D4AA23-ND	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B23	EVN-D8AA03B23
5K	D1AA53-ND*	D4AA53-ND*	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B53	EVN-D8AA03B53
10K	D1AA14-ND	D4AA14-ND	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B14	EVN-D8AA03B14
20K	D1AA24-ND*	D4AA24-ND	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B24	EVN-D8AA03B24
50K	D1AA54-ND*	D4AA54-ND	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B54	EVN-D8AA03B54
100K	D1AA15-ND*	D4AA15-ND*	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B15	EVN-D8AA03B15
200K	D1AA25-ND*	D4AA25-ND	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B25	EVN-D8AA03B25
500K	D1AA55-ND*	D4AA55-ND*	.36	2.63	19.44	72.90	113.40	EVN-D2AA03B55	EVN-D8AA03B55

* Denotes part included in DXA-KIT.

EVN-DCA Side Adjust (Tape) Series
EVN-DJA Top Adjust (Tape) Series

Res. (Ω)	Digi-Key Part No. Side Adjust Version	Digi-Key Part No. Top Adjust Version	Cut Tape Pricing 1	10	100	500	Tape & Box* Pricing 1,000	Panasonic Part No. Side Adjust Version	Panasonic Part No. Top Adjust Version
200	DCA22CT-ND	DJA22CT-ND	.41	2.99	22.08	82.80	129.00	EVN-DCAA03B22	EVN-DJAA03B22
500	DCA52CT-ND	DJA52CT-ND	.41	2.99	22.08	82.80	129.00	EVN-DCAA03B52	EVN-DJAA03B52
1K	DCA13CT-ND	DJA13CT-ND	.41	2.99	22.08	82.80	129.00	EVN-DCAA03B13	EVN-DJAA03B13
2K	DCA23CT-ND	DJA23CT-ND	.41	2.99	22.08	82.80	129.00	EVN-DCAA03B23	EVN-DJAA03B23
5K	DCA53CT-ND	DJA53CT-ND	.41	2.99	22.08	82.80	129.00	EVN-DCAA03B53	EVN-DJAA03B53
10K	DCA14CT-ND	DJA14CT-ND	.41	2.99	22.08	82.80	129.00	EVN-DCAA03B14	EVN-DJAA03B14
20K	DCA24CT-ND	DJA24CT-ND	.41	2.99	22.08	82.80	129.00	EVN-DCAA03B24	EVN-DJAA03B24
50K	DCA54CT-ND	DJA54CT-ND	.41	2.99	22.08	82.80	129.00	EVN-DCAA03B54	EVN-DJAA03B54
100K	DCA15CT-ND	DJA15CT-ND	.41	2.99	22.08	82.80	129.00	EVN-DCAA03B15	EVN-DJAA03B15
200K	DCA25CT-ND	DJA25CT-ND	.41	2.99	22.08	82.80	129.00	EVN-DCAA03B25	EVN-DJAA03B25
500K	DCA55CT-ND	DJA55CT-ND	.41	2.99	22.08	82.80	129.00	EVN-DCAA03B55	EVN-DJAA03B55

* For Tape and Box part number, change CT-ND to TB-ND.

Panasonic® Cermet Series Trimmer Potentiometers
6mm Diameter Cermet Dust-Proof Type

EVM-31GA (Horizontal Both Sides Adjust)

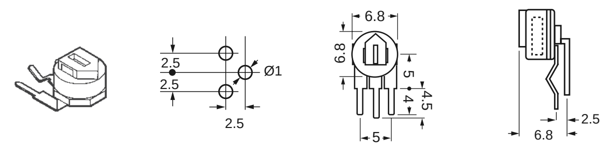

EVM-36GA (Vertical Both Sides Adjust)

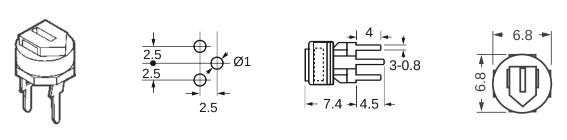

SPECIFICATIONS:

- **Resistance Range:** 100 to 1MΩ
- **Tolerance:** +25%
- **Taper:** Linear
- **Residual Resistance:** 5% maximum
- **Wattage Rating:** 0.3W maximum (70°C)
- **Voltage Rating:** 100V maximum
- **TCR:** +200PPM/°C
- **Rotation Torque:** 20 to 250g-cm
- **Stopper Strength:** 300g-cm minimum
- **Rotation Angle:** 200° +20°C
- **Operating Temperature:** -40°C ~ 101°C (EVM-31G/36G)

Cross Reference Chart

Series	Bourns
31G	3306W
36GA	3306P

Res. Ω	Digi-Key Part No. Horizontal 31GA	Digi-Key Part No. Vertical 36GA	Pricing 1	10	100	Panasonic Part No. Horizontal 31GA	Panasonic Part No. Vertical 36GA
100	31G12-ND	—	.67	5.28	46.08	EVM-31GA00B12	—
500	—	36G52-ND	.67	5.28	46.08	—	EVM-36GA00B52
5K	—	36G53-ND	.67	5.28	46.08	—	EVM-36GA00B53
500K	31G55-ND	—	.67	5.28	46.08	EVM-31GA00B55	—
1M	31G16-ND	36G16-ND	.67	5.28	46.08	EVM-31GA00B16	EVM-36GA00B16

Panasonic “ZNR” Transient/Surge Absorbers Type D and E

Features: • Excellent clamping voltage characteristic and fast response time (50nsec.) when subjected to impulse surges. Eliminates the discharge lag that is indurative of gap-type arrestors. • Bilateral and symmetrical V-1 characteristic curve. The ZNR can, therefore, be used in both in AC and DC circuits, for protection of either positive or negative transients. Panasonic ZNRs are zinc oxide nonlinear resistors whose resistance changes as a function of the applied voltage. The ZNR has a bilateral and symmetrical V-1 characteristic curve and can therefore be used in circuits in place of back-to-back zener diodes. This gives your circuit clamping protection in either direction. The ZNR thus provides a highly reliable and economical way to protect against repeated high voltage transients and surges such as those produced by lightning, switching surges and noise spikes.

Ratings: Varistor Voltage: The voltage between two terminals with the specified measuring current CmA DC applied is called Vc. The measurement shall be made as fast as possible to avoid heat affection.

Maximum Allowable Voltage: The recommended maximum sine wave voltage (rms) or the maximum DC voltage that can be applied continuously.

Withstanding Surge Current: The maximum current within the varistor voltage change of 510% with the standard impulse current (8/20µ second) applied one time.

Maximum Clamping Voltage: The maximum voltage between two terminals with the specified standard impulse current (8/20µ second) illustrated.

V Series: ZNR Surge Absorbers Type D, Series V, have been put on the market as a result of the development of a new ceramic material composition, higher quality of parts and materials used in the varistor and an improvement of manufacturing process control. They have a smaller size but a larger surge current and energy ratings so that they can be used in smaller equipment and exhibit their excellent surge protection ability in severe conditions. **Features:** • Improved in “Surge Current Handling Capability (@ 8/20 µs, 2 times)” by 1.6 to 3.0 times over the current conventional type. • Very large “Energy Handling Capability” absorbing transient overvoltages in compact sizes • Varistor voltages 250V-1850V are listed under UL1414, UL1449 and CSA 2221 01, varistor voltages 82-150V are UL1449 only • Wide products range for transient/surge protection on AC 100V to AC 480V nominal system with the maximum peak current ratings of 600A to 6500A (@ 8/20 µs, 2 times) • Operating Temperature Range -40°C ~ 85°C

D-Type
Series V

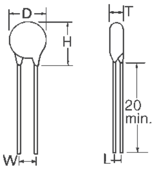

E-Type

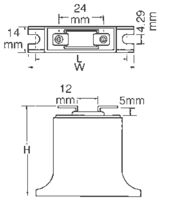

Line to Line Protection
DC AC Single Phase

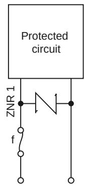

Maximum Clamping Voltage

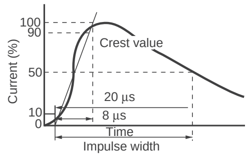

AC Three Phase

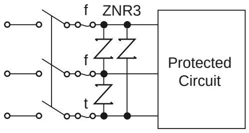

Series	Type	Maximum Allowance Voltage (V) AC	DC	Varistor Volt. ±10% (V)	Max. Clamp Voltage @ Test Current (8/20µsec.) Vc(V)	Ip(A)	Surge Current (A)	Dimensions (mm) D Max.	T Max.	W ±1	H Max.	L ±1	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	10,000	Panasonic Part No.
5	D Ser.V	11	14	18	40	1	125	7.0	4.5	5.0	10.0	1.5	P7282-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D180
		14	18	22	48	1	125	7.0	4.5	5.0	10.0	1.5	P7283-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D220
		17	22	27	60	1	125	7.0	4.5	5.0	10.0	1.5	P7284-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D270
		20	26	33	73	1	125	7.0	4.5	5.0	10.0	1.5	P7285-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D330
		25	31	39	86	1	125	7.0	4.5	5.0	10.0	1.5	P7286-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D390
		30	38	47	104	1	125	7.0	4.5	5.0	10.0	1.5	P7287-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D470
		35	45	56	123	1	125	7.0	4.5	5.0	10.0	1.5	P7288-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D560
		40	56	68	150	1	125	7.0	4.5	5.0	10.0	1.5	P7289-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D680
		50	65	82	145	5	600	7.0	4.1	5.0	10.0	1.4	P7180-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D820
		60	85	100	175	5	600	7.0	4.3	5.0	10.0	1.6	P7240-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D101
		75	100	120	210	5	600	7.0	4.5	5.0	10.0	1.8	P7241-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D121
		95	125	150	260	5	600	7.0	4.8	5.0	10.0	2.1	P7242-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D151
		130	170	200	355	5	600	7.0	4.4	5.0	10.0	1.7	P7181-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D201
		140	180	220	380	5	600	7.0	4.5	5.0	10.0	1.8	P7182-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D221
		150	200	240	415	5	600	7.0	4.6	5.0	10.0	1.9	P7183-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D241
		175	225	270	475	5	600	7.0	4.8	5.0	10.0	2.1	P7184-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D271
		210	270	330	570	5	600	7.0	5.1	5.0	10.0	2.4	P7185-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D331
		230	300	360	620	5	600	7.0	5.3	5.0	10.0	2.5	P7243-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D361
		250	320	390	675	5	600	7.0	5.4	5.0	10.0	2.7	P7244-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D391
		275	350	430	745	5	600	7.0	5.6	5.0	10.0	2.9	P7245-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D431
		300	385	470	810	5	600	7.0	5.8	5.0	10.0	3.1	P7186-ND	.25	2.16	18.00	103.00	96.00/M	93.00/M	ERZ-V05D471
7	D Ser.V	11	14	18	36	2.5	250	8.5	4.5	5.0	11.5	1.3	P7290-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D180
		14	18	22	43	2.5	250	8.5	4.6	5.0	11.5	1.4	P7291-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D220
		17	22	27	53	2.5	250	8.5	4.7	5.0	11.5	1.5	P7292-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D270
		20	26	33	65	2.5	250	8.5	4.9	5.0	11.5	1.7	P7293-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D330
		25	31	39	77	2.5	250	8.5	4.8	5.0	11.5	1.6	P7294-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D390
		30	38	47	93	2.5	250	8.5	4.9	5.0	11.5	1.7	P7295-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D470
		35	45	56	110	2.5	250	8.5	5.0	5.0	11.5	1.8	P7296-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D560
		40	56	68	135	2.5	250	8.5	5.2	5.0	11.5	2.0	P7297-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D680
		50	65	82	135	10	1250	8.5	4.1	5.0	11.5	1.4	P7187-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D820
		60	85	100	165	10	1250	8.5	4.3	5.0	11.5	1.6	P7246-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D101
		75	100	120	200	10	1250	8.5	4.5	5.0	11.5	1.8	P7247-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D121
		95	125	150	250	10	1250	8.5	4.8	5.0	11.5	2.1	P7248-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D151
		130	170	200	340	10	1250	8.5	4.4	5.0	11.5	1.7	P7188-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D201
		140	180	220	360	10	1250	8.5	4.5	5.0	11.5	1.8	P7189-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D221
		150	200	240	395	10	1250	8.5	4.6	5.0	11.5	1.9	P7190-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D241
		175	225	270	455	10	1250	8.5	4.8	5.0	11.5	2.1	P7200-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D271
		210	270	330	545	10	1250	8.5	5.1	5.0	11.5	2.4	P7201-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D331
		230	300	360	595	10	1250	8.5	5.3	5.0	11.5	2.5	P7249-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D361
		250	320	390	650	10	1250	8.5	5.4	5.0	11.5	2.7	P7250-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D391
		275	350	430	710	10	1250	8.5	5.8	5.0	11.5	2.9	P7251-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D431
		300	385	470	775	10	1250	8.5	5.8	5.0	11.5	3.1	P7202-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D471
		320	410	510	845	10	1250	8.5	6.0	5.0	11.5	3.3	P7203-ND	.28	2.40	20.00	114.00	107.00/M	103.00/M	ERZ-V07D511
10	D Ser.V	11	14	18	36	5	500	11.5	4.6	7.5	14.5	1.3	P7298-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D180
		14	18	22	43	5	500	11.5	4.7	7.5	14.5	1.4	P7299-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D220
		17	22	27	53	5	500	11.5	4.8	7.5	14.5	1.5	P7300-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D270
		20	26	33	65	5	500	11.5	5.0	7.5	14.5	1.7	P7301-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D330
		25	31	39	77	5	500	11.5	4.9	7.5	14.5	1.6	P7302-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D390
		30	38	47	93	5	500	11.5	5.0	7.5	14.5	1.7	P7303-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D470
		35	45	56	110	5	500	11.5	5.1	7.5	14.5	1.8	P7304-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D560
		40	56	68	135	5	500	11.5	5.3	7.5	14.5	2.0	P7305-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D680
		50	65	82	135	25	2500	11.5	4.5	7.5	14.5	1.6	P7204-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D820
		60	85	100	165	25	2500	11.5	4.7	7.5	14.5	1.8	P7252-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D101
		75	100	120	200	25	2500	11.5	4.9	7.5	14.5	2.0	P7253-ND	.43	3.66	30.50	174.00	163.00/M	157.00/M	ERZ-V10D121
		95	125	150	250	25	2500	11.5	5.2	7.5	14.5	2.3	P7254-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D151
		130	170	200	340	25	2500	11.5	4.8	7.5	14.5	1.9	P7205-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D201
		140	180	220	360	25	2500	11.5	4.9	7.5	14.5	2.0	P7206-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D221
		150	200	240	395	25	2500	11.5	5.0	7.5	14.5	2.1	P7207-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D241
		175	225	270	455	25	2500	11.5	5.2	7.5	14.5	2.3	P7208-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D271
		210	270	330	545	25	2500	11.5	5.5	7.5	14.5	2.6	P7209-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D331
		230	300	360	595	25	2500	11.5	5.7	7.5	14.5	2.8	P7255-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D361
		250	320	390	650	25	2500	11.5	5.8	7.5	14.5	2.9	P7256-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D391
		275	350	430	710	25	2500	11.5	6.0	7.5	14.5	3.1	P7257-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D431

(Continued)

Ser-ies	Type	Maximum Allowance Voltage (V)		Var-istor Volt. ±10% (V)	Max. Clamp Voltage @ Test Current (8/20μsec.)		Surge Cur-rent (A)	Dimensions (mm)					Digi-Key Part No.	Pricing						Panasonic Part No.
		AC	DC		Vc(V)	Ip(A)		D Max.	T Max.	W ±1	H Max.	L ±1		1	10	100	1,000	5,000	10,000	
10	D Ser.V	300	385	470	775	25	2500	11.5	6.2	7.5	14.5	3.3	P7210-ND	.37	3.17	26.38	150.00	141.00/M	136.00/M	ERZ-V10D471
		320	410	510	845	25	2500	11.5	6.4	7.5	14.5	3.5	P7211-ND	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D511
		385	505	620	1025	25	2500	12.5	7.1	7.5	15.5	4.2	P7258-ND	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D621
		420	560	680	1120	25	2500	12.5	7.4	7.5	15.5	4.5	P7259-ND	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D681
		460	615	750	1240	25	2500	12.5	7.8	7.5	15.5	4.9	P7260-ND	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D751
		510	670	820	1355	25	2500	12.5	8.1	7.5	15.5	5.2	P7212-ND	.50	4.32	36.00	205.00	192.00/M	186.00/M	ERZ-V10D821
		550	745	910	1500	25	2500	12.5	8.6	7.5	15.5	5.7	P7213-ND	.61	5.22	43.50	248.00	232.00/M	224.00/M	ERZ-V10D911
		625	825	1000	1650	25	2500	12.5	9.1	7.5	15.5	6.2	P7261-ND	.61	5.22	43.50	248.00	232.00/M	224.00/M	ERZ-V10D102
		680	895	1100	1815	25	2500	12.5	9.7	7.5	15.5	6.8	P7214-ND	.61	5.22	43.50	248.00	232.00/M	224.00/M	ERZ-V10D112
		1000	1465	1800	2970	25	2500	13.5	14.4	11.0	16.5	10.5	P7215-ND	1.33	11.40	95.00	542.00	507.00/M	490.00/M	ERZ-V10D182
14	D Ser.V	11	14	18	36	10	1000	15.5	4.6	7.5	18.5	1.3	P7306-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D180
		14	18	22	43	10	1000	15.5	4.7	7.5	18.5	1.4	P7307-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D220
		17	22	27	53	10	1000	15.5	4.8	7.5	18.5	1.5	P7308-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D270
		20	26	33	65	10	1000	15.5	5.0	7.5	18.5	1.7	P7309-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D330
		25	31	39	77	10	1000	15.5	4.9	7.5	18.5	1.6	P7310-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D390
		30	38	47	93	10	1000	15.5	5.0	7.5	18.5	1.7	P7311-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D470
		35	45	56	110	10	1000	15.5	5.1	7.5	18.5	1.8	P7312-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D560
		40	56	68	135	10	1000	15.5	5.3	7.5	18.5	2.0	P7313-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D680
		50	65	82	135	50	4500	15.5	4.5	7.5	18.5	1.6	P7216-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D820
		60	85	100	165	50	4500	15.5	4.7	7.5	18.5	1.8	P7262-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D101
		75	100	120	200	50	4500	15.5	4.9	7.5	18.5	2.0	P7263-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D121
		95	125	150	250	50	4500	15.5	5.2	7.5	18.5	2.3	P7264-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D151
		130	170	200	340	50	4500	15.5	4.8	7.5	18.5	1.9	P7217-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D201
		140	180	220	360	50	4500	15.5	4.9	7.5	18.5	2.0	P7218-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D221
		150	200	240	395	50	4500	15.5	5.0	7.5	18.5	2.1	P7219-ND	.49	4.23	35.25	200.93	188.00/M	182.00/M	ERZ-V14D241
		175	225	270	455	50	4500	15.5	5.2	7.5	18.5	2.3	P7220-ND	.49	4.23	35.25	201.00	188.00/M	182.00/M	ERZ-V14D271
		210	270	330	545	50	4500	15.5	5.5	7.5	18.5	2.6	P7221-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D331
		230	300	360	595	50	4500	15.5	5.7	7.5	18.5	2.8	P7265-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D361
		250	320	390	650	50	4500	15.5	5.8	7.8	18.5	2.9	P7266-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D391
		275	350	430	710	50	4500	15.5	6.0	7.5	18.5	3.1	P7267-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D431
		300	385	470	775	50	4500	15.5	6.2	7.5	18.5	3.3	P7222-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D471
		320	410	510	845	50	4500	15.5	6.4	7.5	18.5	3.5	P7223-ND	.60	5.12	42.63	243.00	227.00/M	220.00/M	ERZ-V14D511
		385	505	620	1025	50	4500	16.0	7.1	7.5	19.0	4.2	P7268-ND	.91	7.83	65.25	372.00	348.00/M	337.00/M	ERZ-V14D621
		420	560	680	1120	50	4500	16.0	7.4	7.5	19.0	4.5	P7269-ND	.91	7.83	65.25	372.00	348.00/M	337.00/M	ERZ-V14D681
		460	615	750	1240	50	4500	16.0	7.8	7.5	19.0	4.9	P7270-ND	.94	8.06	67.13	383.00	358.00/M	346.00/M	ERZ-V14D751
		510	670	820	1355	50	4500	16.0	8.1	7.5	19.0	5.2	P7224-ND	.94	8.06	67.13	383.00	358.00/M	346.00/M	ERZ-V14D821
		550	745	910	1500	50	4500	16.0	8.6	7.5	19.0	5.7	P7225-ND	1.28	10.95	91.25	520.00	487.00/M	471.00/M	ERZ-V14D911
		625	825	1000	1650	50	4500	16.0	9.1	7.5	19.0	6.2	P7271-ND	1.28	10.95	91.25	520.00	487.00/M	471.00/M	ERZ-V14D102
		680	895	1100	1815	50	4500	16.0	9.7	7.5	19.0	6.8	P7226-ND	1.28	10.95	91.25	520.00	487.00/M	471.00/M	ERZ-V14D112
		1000	1465	1800	2970	50	4500	17.0	14.4	15.0	20.5	10.5	P7227-ND	1.99	17.04	142.00	809.00	757.00/M	733.00/M	ERZ-V14D182
20	D Ser.V	11	14	18	36	20	2000	21.5	5.1	10.0	24.5	1.5	P7314-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D180
		14	18	22	43	20	2000	21.5	5.2	10.0	24.5	1.6	P7315-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D220
		17	22	27	53	20	2000	21.5	5.3	10.0	24.5	1.7	P7316-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D270
		20	26	33	65	20	2000	21.5	5.5	10.0	24.5	1.9	P7317-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D330
		25	31	39	77	20	2000	21.5	5.5	10.0	24.5	1.9	P7318-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D390
		30	38	47	93	20	2000	21.5	5.6	10.0	24.5	2.0	P7319-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D470
		35	45	56	110	20	2000	21.5	5.7	10.0	24.5	2.1	P7320-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D560
		40	56	68	135	20	2000	21.5	5.8	10.0	24.5	2.2	P7321-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D680
		50	65	82	135	100	6500	21.5	4.9	10.0	24.5	1.8	P7228-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D820
		60	85	100	165	100	6500	21.5	5.1	10.0	24.5	2.0	P7272-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D101
		75	100	120	200	100	6500	21.5	5.3	10.0	24.5	2.2	P7273-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D121
		95	125	150	250	100	6500	21.5	5.6	10.0	24.5	2.5	P7274-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D151
		130	170	200	340	100	6500	21.5	5.2	7.5	24.5	2.1	P7322-ND	1.14	9.75	81.25	463.00	433.00/M	419.00/M	ERZ-V20R201
		130	170	200	340	100	6500	21.5	5.2	10.0	24.5	2.1	P7229-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D201
		140	180	220	360	100	6500	21.5	5.3	7.5	24.5	2.2	P7323-ND	.85	7.29	60.75	346.00	324.00/M	313.00/M	ERZ-V20R221
		140	180	220	360	100	6500	21.5	5.3	10.0	24.5	2.2	P7230-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D221
		150	200	240	395	100	6500	21.5	5.4	7.5	24.5	2.3	P7324-ND	.85	7.29	60.75	346.28	324.00/M	313.47/M	ERZ-V20R241
		150	200	240	395	100	6500	21.5	5.4	10.0	24.5	2.3	P7231-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D241
		175	225	270	455	100	6500	21.5	5.6	7.5	24.5	2.5	P7325-ND	.85	7.29	60.75	346.28	324.00/M	313.47/M	ERZ-V20R271
		175	225	270	455	100	6500	21.5	5.6	10.0	24.5	2.5	P7232-ND	.75	6.47	53.88	307.00	287.00/M	278.00/M	ERZ-V20D271
		210	270	330	545	100	6500	21.5	5.9	7.5	24.5	2.8	P7326-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R331
		210	270	330	545	100	6500	21.5	5.9	10.0	24.5	2.8	P7233-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D331
		230	300	360	595	100	6500	21.5	6.1	7.5	24.5	3.0	P7327-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R361
		230	300	360	595	100	6500	21.5	6.1	10.0	24.5	3.0	P7275-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D361
		250	320	390	650	100	6500	21.5	6.2	7.5	24.5	3.1	P7328-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R391
		250	320	390	650	100	6500	21.5	6.2	10.0	24.5	3.1	P7276-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D391
		275	350	430	710	100	6500	21.5	6.4	7.5	24.5	3.3	P7329-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R431
		275	350	430	710	100	6500	21.5	6.4	10.0	24.5	3.3	P7277-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D431
		300	385	470	775	100	6500	21.5	6.6	7.5	24.5	3.5	P7330-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R471
		300	385	470	775	100	6500	21.5	6.6	10.0	24.5	3.5	P7234-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D471
		320	410	510	845	100	6500	21.5	6.8	7.5	24.5	3.7	P7331-ND	1.26	10.77	89.75	511.58	478.67/M	463.11/M	ERZ-V20R511
		320	410	510	845	100	6500	21.5	6.8	10.0	24.5	3.7	P7235-ND	1.12	9.57	79.75	455.00	425.00/M	412.00/M	ERZ-V20D511
		385	505	620	1025	100	6500	22.5	7.5	10.0	25.5	4.4	P7278-ND	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D621
		420	560	680	1120	100	6500	22.5	7.8	10.0	25.5	4.7	P7279-ND	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D681
		460	615	750	1240	100	6500	22.5	8.2	10.0	25.5	5.1	P7280-ND	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D751
		510	670	820	1355	100	6500	22.5	8.5	10.0	25.5	5.4	P7236-ND	1.84	15.74	131.13	747.00	699.00/M	677.00/M	ERZ-V20D821
		550	745	910	1500	100	6500	22.5	9.0	10.0	25.5	5.9	P7237-ND	2.43	20.79	173.25	988.00	924.00/M	894.00/M	ERZ-V20D911
		625	825	1000	1650	100	6500	22.5	9.5	10.0	25.5	6.4	P7281-ND	2.43	20.79	173.25	988.00	924.00/M	894.00/M	ERZ-V20D102
		680	895	1100	1815	100	6500	22.5	10.1	10.0	25.5	7.0	P7238-ND	2.43	20.79	173.25	988.00	924.00/M	894.00/M	ERZ-V20D112
		1000	1465	1800	2970	100	6500	23.5	14.8	15.0	28.0	10.7	P7239-ND	3.77	32.31	269.25	1535.00	1436.00/M	1389.00/M	ERZ-V20D182
7	D	140	180	220	360	10	1200	9.0	5.3	5.0	12.0	2.1	P7066-ND	.46	3.90	32.50	185.00	173.00/M	168.00/M	ERZ-C07DK221U
10	D	95	125	150	250	25	2500	13.5	5.5	7.5	16.5	2.2	P7057-ND	.63	5.40	45.00	257.00	240.00/M	232.00/M	ERZ-C10DK151
20	D	60	85	100	165	100	6500	23.0	5.6	10.0	27.0	2.0	P7049-ND	1.13	9.69	80.75	460.00	431.00/M	417.00/M	ERZ-C20DK101
		385	505	620	1025	100	6500	24.0	7.6	10.0	28.0	4.1	P7102-ND	2.65	22.68	189.00	1077.00	1008.00/M	975.00/M	ERZ-C20DK621U
20	E	130	170	200	340	100	8000	—	—	48.0	42.0	39.0	P7126-ND	20.58	176.40	1470.00	8379.00	7840.00/M	7585.00/M	ERZ-C20EK201
		150	200	240	395	100	8000	—	—	48.0	42.0	39.0	P7127-ND	20.58	176.40	1470.00	8379.00	7840.00/M	7585.00/M	ERZ-C20EK241
		250	320	390	650	100	8000	—	—	48.0	42.0	39.0	P7128-ND	24.50	210.00	1750.00	9975.00	9333.00/M	9030.00/M	ERZ-C20EK391
25	E	130	170	200	340	150	15000	—	—	60.0	55.0	51.0	P7129-ND	36.72	314.73	2622.75	14950.00	13988.00/M	13533.00/M	ERZ-C25EK201
		510	670	820	1355	150	15000	—	—	60.0	55.0	51.0	P7157-ND	45.17	387.15	3226.25	18390.00	17207.00/M	16647.00/M	ERZ-C25EK821
32	E	130	170	200	340	200	25000	—	—	60.0	55.0	51.0	P7132-ND	45.54	390.30	3252.50	18539.00	17347.00/M	16783.00/M	ERZ-C32EK201
		150	200	240	395	200	25000	—	—	60.0	55.0	51.0	P7133-ND	45.54	390.30	3252.50	18539.00	17347.00/M	16783.00/M	ERZ-C32EK241
		250	320	390	650	200	25000	—	—	60.0	55.0	51.0	P7134-ND	47.36	405.90	3382.50	19280.00	18040.00/M	17454.00/M	ERZ-C32EK391
		550	1500	910	1500	200	25000	—	—	60.0	55.0	51.0	P7135-ND	62.69	537.30	4477.50	25522.00	23880.00/M	23104.00/M	ERZ-C32EK911

Multilayer Varistor

Strontium Titanate (0603 and 0805 Size) Surface Mount

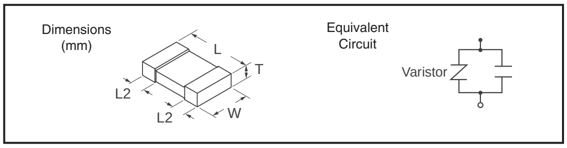

For EMI noise suppression and transient surge protection.

Features:
• Multilayer monolithic construction of SrTiO3 ceramics • Low varistor voltage with high parallel capacitance • Fast response to high speed transient overvoltage for ESD protection (IEC1000-4-2) • dV/dt reduction resulting from the large capacitance • Large withstanding surge and energy capabilities • Operating Temperature Range: -40°C ~ 85°C

Size	Maximum Voltage VDC	Varistor Voltage (at 0.1mA)	Maximum ESD IEC6100-4-2	Capacitance @ 1KHz (Typical)	Dimensions (mm) L	W	T	L2	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000	Panasonic Part No.
0603	6	8-15V	30kV	8200pF	1.60	0.8	0.8	0.3	P822VJCT-ND	1.46	1.30	1.09	P822VJTR-ND	596.00/M	EZJ-S1VB822
	18	24-35V	30kV	3900pF	1.60	0.8	0.8	0.3	P392VJCT-ND	1.46	1.30	1.09	P392VJTR-ND	596.00/M	EZJ-S1VC392
	30	40-60V	30kV	1800pF	1.60	0.8	0.8	0.3	P182VJCT-ND	1.46	1.30	1.09	P182VJTR-ND	596.00/M	EZJ-S1VD182

Size	Appl. Circuit DC	Max. Voltage VDC	Varistor Voltage (at 0.1mA)	Cap. @ 1KHz	Tolerance	Max. Peak Current (8/20μs, 2 times)	Max. Energy (2ms)	Dimensions (mm) L	W	T	L2	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	5,000	Panasonic Part No.
0805	5V Line	6	8-15V	22000	+80%/-20%	25A	0.2J	2.0	1.25	0.8	.50	P223ZJCT-ND	.72	.64	.54	P223ZJTR-ND	—	292.00/M	EZJ-S2VB223
	12V Line	18	24-35V	8200				2.0	1.25	1.25	.50	P822ZJCT-ND	.72	.64	.54	P822ZJTR-ND	292.00/M	—	EZJ-S2YC822
	24V Line	30	40-60V	4700				2.0	1.25	1.25	.50	P472ZJCT-ND	.72	.64	.54	P472ZJTR-ND	292.00/M	—	EZJ-S2YD472

Multilayer Varistor

Zinc Oxide Type (0201, 0402 and 0603 Sizes) Surface Mount

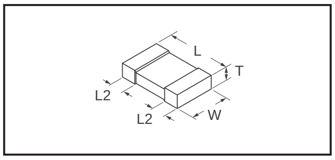

Features:
Multilayer Varistor of Zinc Oxide ceramics suppresses pulse noise (ESD, burst-noise) and protects equipment from the transient surges. This Varistor is suitable for high-speed signal line due to small capacitance. • Low insertion signal loss due to small capacitance • Large withstanding capabilities to ESD (Max. 8kV by IEC test method) • Excellent solderability and superior heat resistance due to plate (Ni/solder) electrode

Application:
For suppression of pulse noise (ESD etc.) in electronic equipment • Cellular phone • PDA • PC and Peripheral equipment

Size	Varistor Voltage	Max. Voltage VDC	Clamping Voltage 8/20μs 1A	2A	Cap. (pF)	Peak Current (A)	Cut Tape Dimensions (mm) L	W	T	L2	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000	10,000	15,000	Panasonic Part No.
0201	12	6.7	30	—	47	1	0.60	0.30	0.30	0.15	P12803CT-ND	.12	1.05	8.84	P12803TR-ND	—	—	48.00/M	EZJ-ZZV120EA
	27	16	50	—	20	1	0.60	0.30	0.30	0.15	P12804CT-ND	.12	1.05	8.84	P12804TR-ND	—	—	48.00/M	EZJ-ZZV270RA
0402	12	6.7	—	30	220	10	1.00	0.50	0.50	0.20	P11403CT-ND	.16	1.40	11.70	P11403TR-ND	—	64.00/M	—	EZJ-Z0V120JA
	27	16	—	50	47	10	1.00	0.50	0.50	0.20	P11404CT-ND	.16	1.40	11.70	P11404TR-ND	—	64.00/M	—	EZJ-Z0V270EA
0603	12	6.7	—	—	330	20	1.60	0.80	0.80	0.30	P12005CT-ND	.29	2.10	15.00	P12005TR-ND	78.00/M	—	—	EZJ-Z1V120KA
	27	20	—	50	100	20	1.60	0.80	0.80	0.30	P10862CT-ND	.21	1.86	15.60	P10862TR-ND	86.00/M	—	—	EZJ-Z1V270GA
	33	26	—	58	100	20	1.60	0.80	0.80	0.30	P10863CT-ND	.21	1.86	15.60	P10863TR-ND	86.00/M	—	—	EZJ-Z1V330GA

Multilayer Varistor–Ultra-Low Capacitance

Zinc Oxide Type (0201, 0402 and 0603 Size) Surface Mount

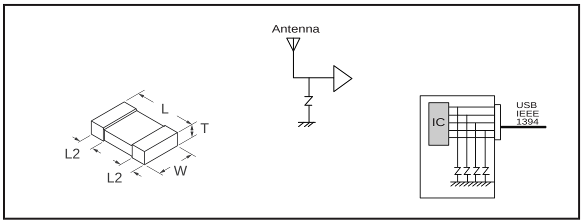

Features:
Multilayer Varistor of Zinc Oxide ceramics suppresses pulse noise (ESD, burst-noise) and protects equipment from transient surges. This Varistor is suitable for RF antenna/RF amplifier due to ultra-low capacitance. • Low insertion signal loss due to ultra-low capacitance • Large withstanding capabilities to ESD (Max. 8kV by IEC test method) • Excellent solderability and superior heat resistance due to plate (Ni/solder) electrode

Application:
For suppression of pulse noise (ESD etc.) in RF antenna/RF amplifier • Cellular phone • PDA • Wireless LAN applications • PC and Peripheral equipment • Interface: USB, IEEE 1394

Size	Varistor Voltage	Maximum Voltage VDC	ESD Maximum (kV)	Capacitance (pF)	Dimensions (mm) L	W	T	L2	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000	10,000	15,000	Panasonic Part No.
0201	80	5	8	3	0.60	0.30	0.30	0.15	P12801CT-ND	.12	1.05	8.84	P12801TR-ND	—	—	48.00/M	EZJ-ZZV800AA
0402	27	3	8	3	1.00	0.50	0.50	0.20	P12800CT-ND	.16	1.40	11.70	P12800TR-ND	—	64.00/M	—	EZJ-Z0V270AA
	80	5	8	.5	1.00	0.50	0.50	0.20	P12987CT-ND	.22	1.91	15.99	P12987TR-ND	—	88.00/M	—	EZJ-Z0V80005
	80	5	5	1	1.00	0.50	0.50	0.20	P12802CT-ND	.22	1.98	16.61	P12802TR-ND	—	91.00/M	—	EZJ-Z0V80010
	80	18	8	3	1.00	0.50	0.50	0.20	P11992CT-ND	.21	1.58	11.25	P11992TR-ND	—	56.00/M	—	EZJ-Z0V800AA
	170	18	8	3	1.00	0.50	0.50	0.20	P11402CT-ND	.16	1.40	11.70	P11402TR-ND	—	64.00/M	—	EZJ-Z0V171AA
0603	170	18	—	3	1.60	0.80	0.80	0.30	P12006CT-ND	.29	2.10	15.00	P12006TR-ND	78.00/M	—	—	EZJ-Z1V171AA

Multilayer Varistor Array Chip Type - 0504 Size

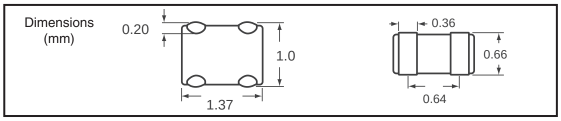

Features:

- Industry's smallest capacitance suitable for high-speed multiple signal lines
- 2-chip type with the noise filter function available (suitable for the audio line of mobile phones)

Varistor Voltage	Maximum Voltage VDC	ESD Maximum	Clamping Voltage Maximum 8/20μs, 1A	Capacitance Maximum (pF)	Peak Current Maximum (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000	Panasonic Part No.
12	6.7	30V	—	220	5	P11989CT-ND	1.32	.99	.75	P11989TR-ND	421.00/M	EZJ-ZSV120JA
27	16	—	50V	22	5	P11987CT-ND	1.63	1.23	.92	P11987TR-ND	523.00/M	EZJ-ZSV270CAK
27	16	—	50V	27	5	P11988CT-ND	1.63	1.23	.92	P11988TR-ND	523.00/M	EZJ-ZSV270DAK
27	16	—	50V	47	5	P11990CT-ND	1.32	.99	.75	P11990TR-ND	421.00/M	EZJ-ZSV270EA
80	18	8kV	—	3	—	P12058CT-ND	.68	.51	.39	P12058TR-ND	220.00/M	EZJ-ZSV800AA
170	18	8kV	—	3	—	P11991CT-ND	1.32	.99	.75	P11991TR-ND	421.00/M	EZJ-ZSV171AA

Panasonic

ZNR/Surge Absorbers With Tabs – Type C Series 32 and 40

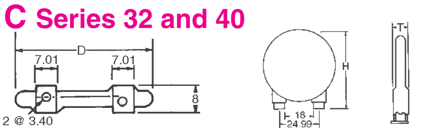

These are heavy duty type ZNR with very unique tab terminals which are used as electrical connecting terminals and also its mounting legs. This ZNR is meant for application in power supplies or transient voltage surge suppressor units where high surge current or high surge energy absorption is required.

Features: • High energy handling capability (210 to 710 joules) • Large withstanding surge current (25 to 30kA) • Compact size • Common terminals for electrical connection and mounting • UL recognized

Ser-ies	Type	Max. Allow. Volt. (V)		Varistor Volt. ±10% (V)	Max. Clamp Volt. @ Test Current (8/20µsec.)		Surge Cur-rent (kA)	Dimensions (mm)			Digi-Key Part No.	Pricing						Panasonic Part No.
		AC	DC		Vc(V)	Lp(A)		D max.	T ±.99	H max.		1	10	100	1,000	5,000	10,000	
32	C	130	170	200	340	200	25	35.99	7.49	46.00	P7158-ND	16.53	141.69	1180.75	6730.00	6297.00/M	6093.00/M	ERZ-C32CK201B
		150	200	240	395	200	25	35.99	7.49	46.00	P7159-ND	16.53	141.69	1180.75	6730.00	6297.00/M	6093.00/M	ERZ-C32CK241B
		230	300	360	595	200	25	35.99	8.99	46.00	P7160-ND	17.70	151.71	1264.25	7206.00	6743.00/M	6524.00/M	ERZ-C32CK361B
		250	320	390	650	200	25	35.99	8.99	46.00	P7161-ND	17.70	151.71	1264.25	7206.00	6743.00/M	6524.00/M	ERZ-C32CK391B
		275	350	430	710	200	25	35.99	8.99	46.00	P7162-ND	17.70	151.71	1264.25	7206.00	6743.00/M	6524.00/M	ERZ-C32CK431B
		385	505	620	1025	200	25	35.99	9.70	46.00	P7163-ND	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK621B
		420	560	680	1120	200	25	35.99	9.70	46.00	P7164-ND	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK681B
		460	615	750	1240	200	25	35.99	11.51	46.00	P7165-ND	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK751B
		485	640	780	1290	200	25	35.99	11.51	46.00	P7166-ND	19.96	171.09	1425.75	8127.00	7604.00/M	7357.00/M	ERZ-C32CK781B
		510	670	820	1355	200	25	35.99	11.51	46.00	P7167-ND	21.75	186.45	1553.75	8856.00	8287.00/M	8017.00/M	ERZ-C32CK821B
		550	745	910	1500	200	25	35.99	11.51	46.00	P7168-ND	23.39	200.49	1670.75	9523.00	8911.00/M	8621.00/M	ERZ-C32CK911B
40	C	130	170	200	340	250	30	43.99	7.49	50.01	P7169-ND	24.79	212.52	1771.00	10095.00	9445.00/M	9138.00/M	ERZ-C40CK201B
		150	200	240	395	250	30	43.99	7.49	50.01	P7170-ND	24.79	212.52	1771.00	10095.00	9445.00/M	9138.00/M	ERZ-C40CK241B
		230	300	360	595	250	30	43.99	8.99	50.01	P7171-ND	26.43	226.56	1888.00	10762.00	10069.00/M	9742.00/M	ERZ-C40CK361B
		250	320	390	650	250	30	43.99	8.99	50.01	P7172-ND	26.43	226.56	1888.00	10762.00	10069.00/M	9742.00/M	ERZ-C40CK391B
		275	350	430	710	250	30	43.99	8.99	50.01	P7173-ND	26.43	226.56	1888.00	10762.00	10069.00/M	9742.00/M	ERZ-C40CK431B
		385	505	620	1025	250	30	43.99	9.70	50.01	P7174-ND	31.03	265.98	2216.50	12634.00	11821.00/M	11437.00/M	ERZ-C40CK621B
		420	560	680	1120	250	30	43.99	9.70	50.01	P7175-ND	31.03	265.98	2216.50	12634.00	11821.00/M	11437.00/M	ERZ-C40CK681B
		460	615	750	1240	250	30	43.99	11.51	50.01	P7176-ND	31.03	265.98	2216.50	12634.00	11821.00/M	11437.00/M	ERZ-C40CK751B
		485	640	780	1290	250	30	43.99	11.51	50.01	P7177-ND	31.03	265.98	2216.50	12634.00	11821.00/M	11437.00/M	ERZ-C40CK781B
		510	670	820	1355	250	30	43.99	11.51	50.01	P7178-ND	32.28	276.66	2305.50	13141.00	12296.00/M	11896.00/M	ERZ-C40CK821B
		550	745	910	1500	250	30	43.99	11.51	50.01	P7179-ND	33.84	290.04	2417.00	13777.00	12891.00/M	12472.00/M	ERZ-C40CK911B

Surface Mount ZNR/Surge Absorbers Type VFM, CF, SF and VFT

Features:
- Temperature Char. of Varistor Voltage 0 ~ -0.05%/°C
- Operating Temperature Range: -40°C ~ 85°C
- Storage Temperature Range: -40°C ~ 125°C
- Designed for flow/reflow soldering
- Excellent response against high steep surge voltage
- Compact package with large withstanding surge capability
- Low Clamping Voltage for better surge protection
- SF Type has the ability to withstand 2 or 3 times the surge current of the CF Type
- VFT Type has low height

Applications:
- For suppression of surge in electronic equipment
- Semiconductors
- Telephone or telecommunication system
- DAA modules, modem
- Router, Terminal adapter (Digital modem)
- Power supply

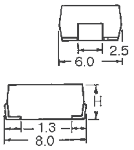

Dim.: (mm)

Type	Dim. H
CF	3.2
SF	3.2
VFM	3.2
VFT	2.4

Type	Varistor Voltage ±10% (V)	Max. Allowable Voltage (V)		Max. Clamping Voltage Vxa(V)◆	Rated Power (W)	Energy (2ms) (J)	Maximum† Peak Current (A)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing			Panasonic Part No.
		AC	DC						10	100	1,000		2,000	6,000	10,000	
VFM	22	14	18	43	0.02	0.9	125	P7345CT-ND	1.64	1.37	1.11	P7345TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M220
	27	17	22	53	0.02	1.0	125	P7346CT-ND	1.64	1.37	1.11	P7346TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M270
	33	20	26	65	0.02	1.2	125	P7347CT-ND	1.64	1.37	1.11	P7347TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M330
	39	25	31	77	0.02	1.5	125	P7348CT-ND	1.64	1.37	1.11	P7348TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M390
	47	30	38	93	0.02	1.8	125	P7349CT-ND	1.64	1.37	1.11	P7349TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M470
	56	35	45	110	0.02	2.2	125	P7350CT-ND	1.64	1.37	1.11	P7350TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M560
	68	40	56	135	0.02	2.5	125	P7351CT-ND	1.64	1.37	1.11	P7351TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M680
	82	50	65	135	0.1	2.5	600	P7337CT-ND	1.64	1.37	1.11	P7337TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M820
	100	60	85	165	0.1	3.0	600	P7338CT-ND	1.64	1.37	1.11	P7338TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M101
	120	75	100	200	0.1	3.5	600	P7339CT-ND	1.64	1.37	1.11	P7339TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M121
	150	95	125	250	0.1	4.5	600	P7340CT-ND	1.64	1.37	1.11	P7340TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M151
	200	130	170	340	0.1	6.0	600	P7341CT-ND	1.64	1.37	1.11	P7341TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M201
	220	140	180	360	0.1	6.5	600	P7342CT-ND	1.64	1.37	1.11	P7342TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M221
	240	150	200	395	0.1	7.5	600	P7343CT-ND	1.64	1.37	1.11	P7343TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M241
	270	175	225	455	0.1	8.0	600	P7344CT-ND	1.64	1.37	1.11	P7344TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M271
	330	210	270	545	0.1	8.0	300	P7352CT-ND	1.64	1.37	1.11	P7352TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M331
	360	230	300	595	0.1	9.0	300	P7353CT-ND	1.64	1.37	1.11	P7353TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M361
	390	250	320	650	0.1	9.0	300	P7354CT-ND	1.64	1.37	1.11	P7354TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M391
	430	275	350	710	0.1	10.0	300	P7355CT-ND	1.64	1.37	1.11	P7355TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M431
	470	300	385	775	0.1	10.0	300	P7356CT-ND	1.64	1.37	1.11	P7356TR-ND	750.00/M	701.00/M	658.00/M	ERZ-VF2M471
CF	22	14	18	48	0.01	0.4	50	P220ZFCT-ND*	1.81	1.52	1.23	P220ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK220
	27	17	22	60	0.01	0.5	50	P270ZFCT-ND*	1.81	1.52	1.23	P270ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK270
	33	20	26	73	0.01	0.6	50	P330ZFCT-ND*	1.81	1.52	1.23	P330ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK330
	39	25	31	86	0.01	0.8	50	P390ZFCT-ND*	1.81	1.52	1.23	P390ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK390
	47	30	38	104	0.01	1.0	50	P470ZFCT-ND*	1.81	1.52	1.23	P470ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK470
	56	35	45	123	0.01	1.0	50	P560ZFCT-ND*	1.81	1.52	1.23	P560ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK560
	68	40	56	150	0.01	1.2	50	P680ZFCT-ND*	1.81	1.52	1.23	P680ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK680
	82	50	65	145	0.1	1.7	200	P820ZFCT-ND*	1.81	1.52	1.23	P820ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK820
	100	60	85	175	0.1	2.0	200	P101ZFCT-ND*	1.81	1.52	1.23	P101ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK101
	120	75	100	210	0.1	2.5	200	P121ZFCT-ND*	1.81	1.52	1.23	P121ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK121
	150	95	125	200	0.1	3.0	200	P151ZFCT-ND*	1.81	1.52	1.23	P151ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK151
	200	130	170	355	0.1	4.0	200	P201ZFCT-ND*	1.81	1.52	1.23	P201ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK201
	220	140	180	380	0.1	4.5	200	P221ZFCT-ND*	1.81	1.52	1.23	P221ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK221
	240	150	200	415	0.1	5.0	200	P241ZFCT-ND*	1.81	1.52	1.23	P241ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK241
	270	175	225	475	0.1	6.0	200	P271ZFCT-ND*	1.81	1.52	1.23	P271ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK271
	360	230	300	620	0.1	6.0	200	P361ZFCT-ND*	1.81	1.52	1.23	P361ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK361
	390	260	320	675	0.1	6.0	200	P391ZFCT-ND*	1.81	1.52	1.23	P391ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK391
	430	275	350	745	0.1	6.3	200	P431ZFCT-ND*	1.81	1.52	1.23	P431ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK431
	470	300	385	810	0.1	7.0	200	P471ZFCT-ND*	1.81	1.52	1.23	P471ZFTR-ND*	831.00/M	777.00/M	729.00/M	ERZ-CF2MK471
SF	22	14	18	43	0.02	0.9	125	P220ZSCT-ND*	2.01	1.68	1.36	P220ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK220
	27	17	22	53	0.02	1.0	125	P270ZSCT-ND*	2.01	1.68	1.36	P270ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK270
	33	20	26	65	0.02	1.2	125	P330ZSCT-ND*	2.01	1.68	1.36	P330ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK330
	39	25	31	77	0.02	1.5	125	P390ZSCT-ND*	2.01	1.68	1.36	P390ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK390
	47	30	38	93	0.02	1.8	125	P470ZSCT-ND*	2.01	1.68	1.36	P470ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK470
	56	35	45	110	0.02	2.2	125	P560ZSCT-ND*	2.01	1.68	1.36	P560ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK560
	68	40	56	135	0.02	2.5	125	P680ZSCT-ND*	2.01	1.68	1.36	P680ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK680
	82	50	65	135	0.25	3.5	600	P820ZSCT-ND*	2.01	1.68	1.36	P820ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK820
	120	75	100	200	0.25	5.0	600	P121ZSCT-ND*	2.01	1.68	1.36	P121ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK121
	220	140	180	360	0.25	9.0	600	P221ZSCT-ND*	2.01	1.68	1.36	P221ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK221
	240	150	200	395	0.25	10.0	600	P241ZSCT-ND*	2.01	1.68	1.36	P241ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK241
	270	175	225	455	0.25	12.0	600	P271ZSCT-ND*	2.01	1.68	1.36	P271ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK271
	390	250	320	650	0.25	12.0	400	P391ZSCT-ND*	2.01	1.68	1.36	P391ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK391
	470	300	385	775	0.25	12.0	400	P471ZSCT-ND*	2.01	1.68	1.36	P471ZSTR-ND*	921.00/M	861.00/M	808.00/M	ERZ-SF2MK471
VFT	82	50	65	145	0.1	1.7	400	P7332CT-ND	1.59	1.34	1.08	P7332TR-ND	729.00/M	682.00/M	640.00/M	ERZ-VF2T820
	100	60	85	175	0.1	2.0	400	P7333CT-ND	1.59	1.34	1.08	P7333TR-ND	729.00/M	682.00/M	640.00/M	ERZ-VF2T101
	150	95	125	260	0.1	3.0	400	P7334CT-ND	1.59	1.34	1.08	P7334TR-ND	729.00/M	682.00/M	640.00/M	ERZ-VF2T151
	240	150	200	415	0.1	5.0	400	P7335CT-ND	1.59	1.34	1.08	—	—	—	—	ERZ-VF2T241
	270	175	225	475	0.1	6.0	400	P7336CT-ND	1.59	1.34	1.08	P7336TR-ND	729.00/M	682.00/M	640.00/M	ERZ-VF2T271

† (8/20 us, 2 times), ◆ Measuring Current of Maximum Clamping Voltage is as follows: For Varistor Voltage of 22 to 68 V: xA=1A, For Varistor Voltage of 82 to 470 V: xA=5A, For Varistor Voltage of VFM: xA=10A
* Not recommended for new design

Multilayer Varistor TVS Surface Mount **ML Series**

RoHS Compliant

Part Number Breakdown for ML Series

V18MLA1206xxx

PACKING OPTIONS
H: Diameter Reel; 7in (178mm)

END TERMINATION OPTION
No Letter: Ag/Pt (Standard)
W: Ag/Pd
N: Nickel (Preferred)

CAPACITANCE OPTION
No Letter: Standard
L: Low Capacitance Version. (Where available – see device ratings for standard version).

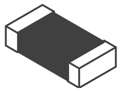

These components are designed to suppress a variety of transient events, including those specified in IEC and other standards used for Electromagnetic Compliance (EMC). The ML Series is typically applied to protect integrated circuits and other components at the circuit board level.

SPECIFICATIONS:

- Typical leakage at 25°C<25uA, maximum leakage 50uA at V_M(DC)
- Average power dissipation of transients for 0402, 0603, 0805, 1206 and 1210 sizes not to exceed 0.05W, 0.1W, 0.1W and 0.15W respectively

FEATURES:

- Multilayer ceramic construction technology
- Operating Temperature Range: -55°C ~ 125°C
- Operating Voltage Range: 3.5V to 120V
- Inherent Bi-directional clamping
- No plastic or epoxy packaging assures better than 94V-0 flammability rating

APPLICATIONS:

- Suppression of inductive switching or other transient events such as EFT and surge voltage at the circuit board level
- ESD Protection for components sensitive to IEC 61000-4-2, MIL-STD 883C Method 3015.7 and other industry specifications. (See also the MHS and MLE Series)
- Replace larger surface mount TVS zeners in many applications

Package	Max. Cont. Working Voltage DC	AC	Max. Non-Repetitive Surge Current (8/20µs) (A)	Max. Non-Repetitive Surge Energy (10/1000µs) (J)	Nominal Voltage @ 1mA DC Test Current Min.	Max.	Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Littelfuse Part No.
0603	3.5	2.5	30	0.1	3.7	7.0	1100	F2205CT-ND	.39	3.58	26.95	F2205TR-ND	2,500	148.50/M	V3.5MLA0603H
0805	3.5	2.5	40	0.1	3.7	7.0	1200	F2207CT-ND	.46	4.23	31.85	F2207TR-ND	2,500	175.50/M	V3.5MLA0805LH
0805	3.5	2.5	120	0.3	3.7	7.0	2200	F2206CT-ND	.46	4.23	31.85	F2206TR-ND	2,500	175.50/M	V3.5MLA0805H
1206	3.5	2.5	100	0.3	3.7	7.0	6000	F2208CT-ND	.88	8.13	61.25	F2208TR-ND	2,500	337.50/M	V3.5MLA1206H
0402	5.5	4.0	20	0.05	15.9	20.3	70	F2259CT-ND*	.32	2.93	22.05	F2259TR-ND*	10,000	110.25/M	V5.5MLA0402LNR
0402	5.5	4.0	20	0.05	7.1	9.3	220	F2258CT-ND*	.32	2.93	22.05	F2258TR-ND*	10,000	110.25/M	V5.5MLA0402NR
0603	5.5	4.0	30	0.1	7.1	9.3	660	F2214CT-ND	.39	3.58	26.95	F2214TR-ND	2,500	148.50/M	V5.5MLA0603H
0805	5.5	4.0	40	0.1	7.1	9.3	860	F2216CT-ND	.46	4.23	31.85	F2216TR-ND	2,500	175.50/M	V5.5MLA0805LH
0805	5.5	4.0	40	0.1	7.1	9.3	860	F2217CT-ND*	.53	4.88	36.75	F2217TR-ND*	2,500	202.50/M	V5.5MLA0805LNH
0805	5.5	4.0	120	0.3	7.1	9.3	1600	F2215CT-ND	.46	4.23	31.85	F2215TR-ND	2,500	175.50/M	V5.5MLA0805H
1206	5.5	4.0	150	0.4	7.1	9.3	4500	F2218CT-ND	.88	8.13	61.25	F2218TR-ND	2,500	337.50/M	V5.5MLA1206H
1206	5.5	4.0	150	0.4	7.1	9.3	4500	F2219CT-ND*	1.02	9.43	71.05	F2219TR-ND*	2,500	391.50/M	V5.5MLA1206NH
0402	9	6.5	4	0.02	11	14	33	F2261CT-ND*	.32	2.93	22.05	F2261TR-ND*	10,000	110.25/M	V9MLA0402LNR
0402	9	6.5	20	0.05	11	14	120	F2260CT-ND*	.32	2.93	22.05	F2260TR-ND*	10,000	110.25/M	V9MLA0402NR
0603	9	6.5	30	0.1	11	16	420	F2226CT-ND	.39	3.58	26.95	F2226TR-ND	2,500	148.50/M	V9MLA0603H
0603	9	6.5	30	0.1	11	16	420	F2227CT-ND*	.46	4.23	31.85	F2227TR-ND*	2,500	175.50/M	V9MLA0603NH
0805	9	6.5	40	0.1	11	14	450	F2228CT-ND	.46	4.23	31.85	F2228TR-ND	2,500	175.50/M	V9MLA0805LH
0805	12	9.0	40	0.1	14	18.5	350	F2171CT-ND	.56	5.20	39.20	—	—	—	V12MLA0805LH
0402	14	10	20	0.05	15.9	20.3	70	F2262CT-ND*	.32	2.93	22.05	F2262TR-ND*	10,000	110.25/M	V14MLA0402NR
0603	14	10	30	0.1	15.9	20.3	150	F2173CT-ND	.39	3.58	26.95	F2173TR-ND	2,500	148.50/M	V14MLA0603H
0603	14	10	30	0.1	15.9	20.3	150	F2174CT-ND*	.46	4.23	31.85	F2174TR-ND*	2,500	175.50/M	V14MLA0603NH
0805	14	10	40	0.1	15.9	20.3	270	F2176CT-ND	.46	4.23	31.85	F2176TR-ND	2,500	175.50/M	V14MLA0805LH
0805	14	10	40	0.1	15.9	20.3	270	F2177CT-ND*	.53	4.88	36.75	F2177TR-ND*	2,500	202.50/M	V14MLA0805LNH
0805	14	10	120	0.3	15.9	20.3	480	F2175CT-ND	.46	4.23	31.85	F2175TR-ND	2,500	175.50/M	V14MLA0805H
1206	14	10	150	0.4	15.9	20.3	1600	F2178CT-ND	.88	8.13	61.25	F2178TR-ND	2,500	337.50/M	V14MLA1206H
1206	14	10	150	0.4	15.9	20.3	1600	F2179CT-ND*	1.02	9.43	71.05	F2179TR-ND*	2,500	391.50/M	V14MLA1206NH
0402	18	14	20	0.05	22	28	40	F2263CT-ND*	.32	2.93	22.05	F2263TR-ND*	10,000	110.25/M	V18MLA0402NR
0603	18	14	30	0.1	22	28	125	F2181CT-ND	.39	3.58	26.95	F2181TR-ND	2,500	148.50/M	V18MLA0603H
0805	18	14	40	0.1	22	28	250	F2183CT-ND	.46	4.23	31.85	F2183TR-ND	2,500	175.50/M	V18MLA0805LH
0805	18	14	40	0.1	22	28	250	F2184CT-ND*	.53	4.88	36.75	F2184TR-ND*	2,500	202.50/M	V18MLA0805LNH
0805	18	14	120	0.3	22	28	450	F2182CT-ND	.46	4.23	31.85	F2182TR-ND	2,500	175.50/M	V18MLA0805H
1206	18	14	150	0.4	22	28	1100	F2185CT-ND	.88	8.13	61.25	F2185TR-ND	2,500	337.50/M	V18MLA1206H
1210	18	14	500	2.5	22	28	1250	F2186CT-ND	1.09	10.08	75.95	F2186TR-ND	2,000	418.50/M	V18MLA1210H
0603	26	20	30	0.1	31	38	90	F2191CT-ND	.39	3.58	26.95	F2191TR-ND	2,500	148.50/M	V26MLA0603H
0805	26	20	40	0.1	29.5	38.5	115	F2193CT-ND	.46	4.23	31.85	F2193TR-ND	2,500	175.50/M	V26MLA0805LH
0805	26	20	40	0.1	29.5	38.5	115	F2194CT-ND*	.53	4.88	36.75	F2194TR-ND*	2,500	202.50/M	V26MLA0805LNH
0805	26	20	100	0.3	29.5	38.5	190	F2192CT-ND	.46	4.23	31.85	F2192TR-ND	2,500	175.50/M	V26MLA0805H
0805	26	20	100	0.3	29.5	38.5	190	F2195CT-ND*	.53	4.88	36.75	F2195TR-ND*	2,500	202.50/M	V26MLA0805NH
1206	26	20	150	0.6	29.5	38.5	900	F2196CT-ND	.88	8.13	61.25	F2196TR-ND	2,500	337.50/M	V26MLA1206H
1206	26	20	150	0.6	29.5	38.5	900	F2197CT-ND*	1.02	9.43	71.05	F2197TR-ND*	2,500	391.50/M	V26MLA1206NH
1210	26	20	300	1.2	29.5	38.5	1000	F2198CT-ND	1.09	10.08	75.95	F2198TR-ND	2,000	418.50/M	V26MLA1210H
0603	30	25	30	0.1	37	46	75	F2199CT-ND	.39	3.58	26.95	F2199TR-ND	2,500	148.50/M	V30MLA0603H
0805	30	25	30	0.1	37	46	80	F2200CT-ND	.46	4.23	31.85	F2200TR-ND	2,500	175.50/M	V30MLA0805LH
1210	30	25	220	0.9	35	43	1530	F2202CT-ND	1.72	15.93	120.05	—	—	—	V30MLA1210LH
1210	30	25	280	1.2	35	43	1575	F2201CT-ND	1.09	10.08	75.95	F2201TR-ND	2,000	418.50/M	V30MLA1210H
1206	33	26	180	0.8	38	49	550	F2203CT-ND	.88	8.13	61.25	F2203TR-ND	2,500	337.50/M	V33MLA1206H
1206	33	26	180	0.8	38	49	550	F2204CT-ND*	1.02	9.43	71.05	F2204TR-ND*	2,500	391.50/M	V33MLA1206NH
1206	42	30	180	0.8	46	60	550	F2209CT-ND	.88	8.13	61.25	F2209TR-ND	2,500	337.50/M	V42MLA1206H
1206	42	30	180	0.8	46	60	550	F2210CT-ND*	1.02	9.43	71.05	F2210TR-ND*	2,500	391.50/M	V42MLA1206NH
1210	48	40	250	1.2	54.5	66.5	450	F2211CT-ND	1.09	10.08	75.95	F2211TR-ND	2,000	418.50/M	V48MLA1210H
1206	56	40	180	1.0	61	77	150	F2212CT-ND	.88	8.13	61.25	F2212TR-ND	2,500	337.50/M	V56MLA1206H
1210	60	50	250	1.5	67	83	375	F2220CT-ND	1.09	10.08	75.95	F2220TR-ND	2,000	418.50/M	V60MLA1210H
1206	68	50	180	1.0	76	90	150	F2221CT-ND	.88	8.13	61.25	F2221TR-ND	2,500	337.50/M	V68MLA1206H
1206	68	50	180	1.0	76	90	150	F2222CT-ND*	1.02	9.43	71.05	F2222TR-ND*	2,500	391.50/M	V68MLA1206NH
1210	85	67	250	2.5	95	115	225	F2223CT-ND	1.09	10.08	75.95	F2223TR-ND	2,000	418.50/M	V85MLA1210H
1210	85	67	250	2.5	95	115	225	F2224CT-ND*	1.05	9.75	73.50	F2224TR-ND*	2,000	405.00/M	V85MLA1210NH
1210	120	107	125	2.0	135	165	65	F2170CT-ND	1.05	9.75	73.50	F2170TR-ND	2,000	405.00/M	V120MLA1210H

* Nickel Plated Terminations

Littelfuse® Varistor (MOVs) Axial Leaded MA Series

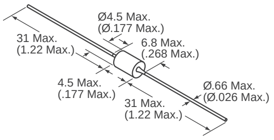

The MA Series of transient surge suppressors are axial-lead metal-oxide varistors (MOVs) for use in a wide variety of board level industrial and commercial electronic equipment. They are intended to protect components and signal/data lines from low energy transients where the small axial lead package is required.

SPECIFICATIONS:
- Hi-Pot Encapsulation (Isolation Voltage Capability): 1,000V
- Operating Temperature: -55°C ~ 85°C (No derating up to 85°C ambient)
- Insulation Resistance: 1,000MΩ

Max. Cont. Working Voltage V(RMS)†	VDC†	Varistor Voltage @ 1mA DC Min.‡	Nom.‡	Max.‡	Max. Non-Repetitive Surge Current (8/20µs) (A)†	Max. Clamp Voltage @ 2A (8/20µs) (V)‡	Capacitance (pF)‡	Part Marking	Digi-Key Part No.	Price Each 1	10	100	Littelfuse Part No.
9	13	14	18	23	40	49	550	18A	F2271-ND	.45	.40	.36	V18MA1A
10	14	15	18	21	40	44	550	18B	F2272-ND	.45	.40	.36	V18MA1B
10	15	16	22	28	40	55	410	22A	F2273-ND	.45	.40	.36	V22MA1A
14	18	19	22	26	40	51	410	22B	F2274-ND	.45	.40	.36	V22MA1B
13	19	21	27	34	40	67	370	27A	F2275-ND	.45	.40	.36	V27MA1A
17	22	24	27	31	40	59	370	27B	F2276-ND	.45	.40	.36	V27MA1B
18	23	26	33	40	40	73	300	33A	F2277-ND	.45	.40	.36	V33MA1A
20	26	29.5	33	36.5	40	67	300	33B	F2278-ND	.45	.40	.36	V33MA1B
22	28	31	39	47	40	86	250	39A	F2279-ND	.45	.40	.36	V39MA2A
25	31	35	39	43	40	79	250	39B	F2280-ND	.45	.40	.36	V39MA2B
27	34	37	47	57	40	99	210	47A	F2281-ND	.45	.40	.36	V47MA2A
30	38	42	47	52	40	90	210	47B	F2282-ND	.45	.40	.36	V47MA2B
32	40	44	56	68	40	117	180	56A	F2283-ND	.45	.40	.36	V56MA2A
35	45	50	56	62	40	108	180	56B	F2284-ND	.45	.40	.36	V56MA2B
38	48	54	68	82	40	138	150	68A	F2285-ND	.45	.40	.36	V68MA3A
40	56	61	68	75	40	127	150	68B	F2286-ND	.45	.40	.36	V68MA3B
45	60	65	82	99	40	163	120	82A	F2287-ND	.45	.40	.36	V82MA3A
50	66	73	82	91	40	150	120	82B	F2288-ND	.45	.40	.36	V82MA3B
57	72	80	100	120	40	200	100	100	F2289-ND	.54	.48	.44	V100MA4A
60	81	90	100	110	40	185	100	101	F2290-ND	.54	.48	.44	V100MA4B
72	97	102	120	138	100	220	40	120	F2291-ND	.45	.40	.36	V120MA1A
75	101	108	120	132	100	205	40	121	F2292-ND	.54	.48	.44	V120MA2B
88	121	127	150	173	100	255	32	150	F2293-ND	.45	.40	.36	V150MA1A
92	127	135	150	165	100	240	32	151	F2294-ND	.45	.40	.36	V150MA2B
105	144	153	180	207	100	310	27	180	F2295-ND	.45	.40	.36	V180MA1A
110	152	162	180	198	100	290	27	181	F2296-ND	.45	.40	.36	V180MA3B
132	181	187	220	253	100	380	21	220	F2297-ND	.45	.40	.36	V220MA2A
138	191	198	220	242	100	360	21	221	F2298-ND	.45	.40	.36	V220MA4B
163	224	229	270	311	100	460	17	270	F2299-ND	.45	.40	.36	V270MA2A
171	235	243	270	297	100	440	17	271	F2300-ND	.45	.40	.36	V270MA4B
188	257	280	330	380	100	570	14	330	F2301-ND	.45	.40	.36	V330MA2A
200	274	297	330	363	100	540	14	331	F2302-ND	.45	.40	.36	V330MA5B
234	322	331	390	449	100	670	12	390	F2303-ND	.45	.40	.36	V390MA3A
242	334	351	390	429	100	640	12	391	F2304-ND	.45	.40	.36	V390MA6B
253	349	365	430	495	100	740	11	430	F2305-ND	.45	.40	.36	V430MA3A
264	365	387	430	473	100	700	11	431	F2306-ND	.45	.40	.36	V430MA7B

Note: Average power dissipation of transients not to exceed 200mW. † Maximum ratings at 85°C. ‡ Ratings at 25°C.

High Speed Multilayer Varistor TVS Surface Mount ESD Surge Suppressor

RoHS COMPLIANT

MHS Series

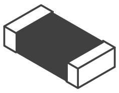

This series provides protection from ESD and EFT in high-speed data-line and other high frequency applications. The low capacitance of the MHS series permits usage in analog or digital circuits where it will not attenuate or distort the desired signal or data. Well suited to suppress ESD events such as specified in IEC 61000-4-2 or other standards used for ElectroMagnetic Compliance (EMC) testing.

FEATURES: • 3pF and 12pF Capacitance versions are suitable for high-speed data-rate lines • Rated for ESD IEC 61000-4-2 (Level 4) • Rated for EFT/B IEC 61000-4-4 (Level 4) • Inherently Bi-directional • Operating Temperature: -55°C ~ 125°C • Construction: Multi-layer semiconducting ceramics • Nickel-plated terminations • Reel Option: 7 inch (178mm) diameter

APPLICATIONS: • Data, Diagnostic I/O Ports • USB (Universal Serial Bus) • Video and Audio Ports • Portable/Hand-Held Products • Industrial Instruments including Medical

Package	Max. Cont. Working Voltage ≤ (V)	Max. Non-Repetitive Surge Energy (10/1000µs) (J)	Max. Clamp Voltage @ 1A (8x20µs) (Vc)	Max. ESD Clamp Voltage† < 8kV Contact‡ (V)	< 15kV Air‡‡ (V)	Max. Leakage Current I_L @ 15V (µA)	Capacitance @ 1MHz (1V p-p) (pF)	Digi-Key Part No.	Cut Tape 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Littelfuse Part No.
0402	42	0.010	110	300	400	0.50	3	F2265CT-ND	.28	.26	.20	F2265TR-ND	10,000	98.00/M	V0402MHS03NR
0402	18	0.025	55	125	160	5.0	12	F2266CT-ND	.28	.26	.20	F2266TR-ND	10,000	98.00/M	V0402MHS12NR
0402	9	0.020	30	65	100	1.0 @ 5.5V	22	F2267CT-ND	.28	.26	.20	F2267TR-ND	10,000	98.00/M	V0402MHS22NR
0603	42	0.010	110	300	400	0.50	3	F2268CT-ND	.35	.33	.25	F2268TR-ND	2,500	135.00/M	V0603MHS03NH
0603	18	0.025	55	125	160	5.0	12	F2269CT-ND	.35	.33	.25	F2269TR-ND	2,500	135.00/M	V0603MHS12NH
0603	9	0.020	30	65	100	1.0 @ 5.5V	22	F2270CT-ND	.35	.33	.25	F2270TR-ND	2,500	135.00/M	V0603MHS22NH

† Tested to IEC-61000-4-2 Human Body Model (HBM) discharge test circuit. ‡ Direct discharge to device terminals (IEC preferred test method). ‡‡ Corona discharge through air (represents actual ESD event).

Multilayer Varistor TVS Surface Mount ESD Suppressor/ Filter

RoHS Compliant

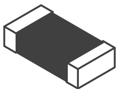

MLE Series

These components are designed to suppress ESD events, including those specified in IEC61000-4-2 or other Standards used for Electromagnetic Compliance testing.

FEATURES: • Rated for ESD (IEC 61000-4-2) • Characterized for Impedance and Capacitance • Operating Temperature Range: -55°C ~ 125°C • Multilayer Ceramic Construction Technology • Silver/Platinum terminations (unless noted) • Reel Option: 7 inch (178mm) diameter

APPLICATIONS: • Protection of components and circuits sensitive to ESD Transients occurring on power supplies; control and signal lines. • Suppression of ESD events such as specified in IEC 61000-4-2 or MIL-STD-883C method 3015-7: for Electromagnetic Compliance (EMC).

Package	Max. Cont. Working ≤ Voltage†	Nominal Voltage @1mA DC Min.	Max.	Max. ESD Clamp Voltage§ < 8kV Contact‡	< 15kV Air‡‡	Max. Leakage I_L@18V(µA)	Capacitance < (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Littelfuse Part No.
0402	18	22	28	125	160	10	40	F2264CT-ND*	.32	.30	.23	F2264TR-ND*	10,000	110.25/M	V18MLE0402NR
0603	18	22	28	75	85	25	100	F2188CT-ND	.39	.36	.27	F2188TR-ND	2,500	148.50/M	V18MLE0603H
0805	18	22	28	70	75	25	500	F2189CT-ND	.46	.43	.32	F2189TR-ND	2,500	175.50/M	V18MLE0805H
1206	18	22	28	65	65	25	1700	F2190CT-ND	.88	.82	.62	F2190TR-ND	2,500	337.50/M	V18MLE1206H

NOTE: † For applications of 18VDC or less. Higher voltages available. § Tested to IEC61000-4-2 Human Body Model (HBM) discharge test circuit. ‡ Direct discharge to device terminals (IEC preferred test method). ‡‡ Corona discharge through air (represents actual ESD event). * Nickel Plated Terminations

Leaded Varistors

Specifications:

• Coating: Epoxy resin, flame retardant to UL 94 V-0 • Terminals: Tinned copper wire • Operating Temperature Range: -40°C ~ 85°C • Storage Temperature Range: -40°C ~ 125°C • Electric Strength: ≥2.5 kV_{RMS} • Insulation Resistance: ≥10MΩ • Response Time: <25ns

Features:

StandarD Series: • Wide operating voltage range • No derating up to 85°C ambient temperature • Approvals: UL, CSA (All Types ≥ K115), SEV, VDE, CECC

AdvanceD Series: • High-energy AdvanceD series E2 • High surge current ratings up to 10kA • High energy ratings up to 325J • Wide operating voltage range • Approvals: UL, CSA, VDE, CECC

Automotive Series: • High energy absorption, particularly in case of load dump • Jump-start strength • Stable protection level, minimum leakage current • High resistance to cyclic temperature stress • Types for T_A = 125°C

Fig. 1

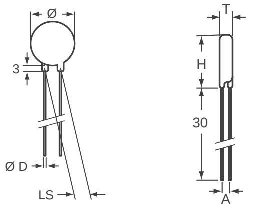

Fig. 2

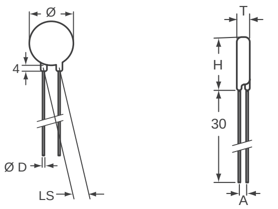

Maximum Allowable Voltage (V) AC	DC	Varistor Voltage @ 1mA ±10% (V)	Maximum Clamping Voltage V	A	$i_{Max.}$ 8/20 µs A	Dimensions (mm) LS ±1	A ±1	Ø Max.	T Max.	H Max.	ØD ±.05	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Epcos Part No.
									StandarD Series - Fig. 1									
11	14	18	36	2.5	250	5.0	1.2	9.0	3.4	11.0	.6	495-1402-ND	.26	2.22	18.50	105.45	98.42/M	S07K11
14	18	22	43	2.5	250	5.0	1.3	9.0	3.5	11.0	.6	495-1403-ND	.26	2.22	18.50	105.45	98.42/M	S07K14
25	31	39	77	2.5	250	5.0	1.3	9.0	3.7	11.0	.6	495-1404-ND	.16	1.38	11.50	65.55	61.18/M	S07K25
30	38	47	93	2.5	250	5.0	1.5	9.0	3.7	11.0	.6	495-1405-ND	.26	2.22	18.50	105.45	98.42/M	S07K30
130	170	205	340	10	1200	5.0	1.6	9.0	3.6	11.0	.6	495-1406-ND	.26	2.22	18.50	105.45	98.42/M	S07K130
150	200	240	395	10	1200	5.0	1.8	9.0	3.8	11.0	.6	495-1407-ND	.26	2.22	18.50	105.45	98.42/M	S07K150
275	350	430	710	10	1200	5.0	2.0	9.0	4.4	11.0	.6	495-1408-ND	.26	2.22	18.50	105.45	98.42/M	S07K275
130	170	205	340	50	4500	7.5	1.9	15.5	4.2	18.5	.8	495-1409-ND	.49	4.23	35.25	200.93	187.53/M	S14K130
140	180	220	360	50	4500	7.5	2.0	15.5	4.3	18.5	.8	495-1410-ND	.49	4.23	35.25	200.93	187.53/M	S14K140
150	200	240	395	50	4500	7.5	2.1	15.5	4.4	18.5	.8	495-1411-ND	.49	4.23	35.25	200.93	187.53/M	S14K150
275	350	430	710	50	4500	7.5	2.2	15.5	5.0	18.5	.8	495-1412-ND	.49	4.23	35.25	200.93	187.53/M	S14K275
320	420	510	845	50	4500	7.5	2.4	15.5	5.4	19.0	.8	495-1413-ND	.68	5.85	48.75	277.88	259.35/M	S14K320
130	170	205	340	100	8000	10.0	2.0	21.5	4.7	25.5	1.0	495-1414-ND	.69	5.88	49.00	279.30	260.68/M	S20K130
140	180	220	360	100	8000	10.0	2.1	21.5	4.8	25.5	1.0	495-1415-ND	.69	5.88	49.00	279.30	260.68/M	S20K140
150	200	240	395	100	8000	10.0	2.2	21.5	4.9	25.5	1.0	495-1416-ND	.69	5.88	49.00	279.30	260.68/M	S20K150
275	350	430	710	100	8000	10.0	2.3	21.5	5.4	25.5	1.0	495-1417-ND	.69	5.88	49.00	279.30	260.68/M	S20K275
320	420	510	845	100	8000	10.0	2.6	21.5	5.8	25.5	1.0	495-1418-ND	.43	3.69	30.75	175.28	163.59/M	S20K320
									AdvanceD Series - Fig. 1									
130	170	205	340	5.0	800	5.0	1.6	7.0	3.9	8.5	.6	495-1419-ND	.18	1.50	12.50	71.25	66.50/M	S05K130E2
140	180	220	360	5.0	800	5.0	1.7	7.0	4.0	8.5	.6	495-1420-ND	.18	1.50	12.50	71.25	66.50/M	S05K140E2
150	200	240	395	5.0	800	5.0	1.8	7.0	4.1	8.5	.6	495-1421-ND	.18	1.50	12.50	71.25	66.50/M	S05K150E2
300	385	470	775	5.0	800	5.0	2.1	7.0	4.7	8.5	.6	495-1422-ND	.20	1.68	14.00	79.80	74.48/M	S05K300E2
130	170	205	340	10	1750	5.0	1.6	9.0	3.9	11.0	.6	495-1423-ND	.19	1.62	13.50	76.95	71.82/M	S07K130E2
150	200	240	395	10	1750	5.0	1.8	9.0	4.1	11.0	.6	495-1424-ND	.19	1.62	13.50	76.95	71.82/M	S07K150E2
250	320	390	650	10	1750	5.0	1.9	9.0	4.5	11.0	.6	495-1425-ND	.21	1.77	14.75	84.08	78.47/M	S07K250E2
275	350	430	710	10	1750	5.0	2.0	9.0	4.6	11.0	.6	495-1426-ND	.21	1.77	14.75	84.08	78.47/M	S07K275E2
300	385	470	775	10	1750	5.0	2.1	9.0	4.7	11.0	.6	495-1427-ND	.21	1.77	14.75	84.08	78.47/M	S07K300E2
320	420	510	845	10	1750	5.0	2.3	9.0	4.6	11.0	.6	495-1428-ND	.32	2.76	23.00	131.10	122.36/M	S07K320E2
140	180	220	360	25	3500	7.5	1.9	12.0	4.6	14.5	.8	495-1429-ND	.59	5.07	42.25	240.83	224.77/M	S10K140E2
150	200	240	395	25	3500	7.5	2.0	12.0	4.7	14.5	.8	495-1430-ND	.59	5.07	42.25	240.83	224.77/M	S10K150E2
175	225	270	455	25	3500	7.5	2.2	12.0	4.9	14.5	.8	495-1431-ND	.59	5.07	42.25	240.83	224.77/M	S10K175E2
250	320	390	650	25	3500	7.5	2.1	12.0	5.2	14.5	.8	495-1432-ND	.59	5.07	42.25	240.83	224.77/M	S10K250E2
275	350	430	710	25	3500	7.5	2.2	12.0	5.4	14.5	.8	495-1433-ND	.59	5.07	42.25	240.83	224.77/M	S10K275E2
300	385	470	775	25	3500	7.5	2.3	12.0	5.6	14.5	.8	495-1434-ND	.59	5.07	42.25	240.83	224.77/M	S10K300E2
420	560	680	1120	25	3500	7.5	3.5	12.0	7.4	15.0	.8	495-1435-ND	.77	6.57	54.75	312.08	291.27/M	S10K420E2
130	170	205	340	50	6000	7.5	1.9	15.5	4.6	18.5	.8	495-1436-ND	.68	5.82	48.50	276.45	258.02/M	S14K130E2
140	180	220	360	50	6000	7.5	2.0	15.5	4.7	18.5	.8	495-1437-ND	.68	5.82	48.50	276.45	258.02/M	S14K140E2
150	200	240	395	50	6000	7.5	2.1	15.5	4.8	18.5	.8	495-1438-ND	.68	5.82	48.50	276.45	258.02/M	S14K150E2
175	225	270	455	50	6000	7.5	2.2	15.5	4.9	18.5	.8	495-1439-ND	.68	5.82	48.50	276.45	258.02/M	S14K175E2
250	320	390	650	50	6000	7.5	2.1	15.5	5.2	18.5	.8	495-1440-ND	.68	5.82	48.50	276.45	258.02/M	S14K250E2
275	350	430	710	50	6000	7.5	2.2	15.5	5.4	18.5	.8	495-1441-ND	.68	5.82	48.50	276.45	258.02/M	S14K275E2
300	385	470	775	50	6000	7.5	2.3	15.5	5.6	18.5	.8	495-1442-ND	.68	5.82	48.50	276.45	258.02/M	S14K300E2
130	170	205	340	100	10000	10.0	2.0	21.5	5.0	25.5	1.0	495-1443-ND	.76	6.48	54.00	307.80	287.28/M	S20K130E2
140	180	220	360	100	10000	10.0	2.1	21.5	5.1	25.5	1.0	495-1444-ND	.76	6.48	54.00	307.80	287.28/M	S20K140E2
150	200	240	395	100	10000	10.0	2.2	21.5	5.2	25.5	1.0	495-1445-ND	.76	6.48	54.00	307.80	287.28/M	S20K150E2
175	225	270	455	100	10000	10.0	2.3	21.5	5.3	25.5	1.0	495-1446-ND	.76	6.48	54.00	307.80	287.28/M	S20K175E2
250	320	390	650	100	10000	10.0	2.4	21.5	5.7	25.5	1.0	495-1447-ND	.76	6.48	54.00	307.80	287.28/M	S20K250E2
275	350	430	710	100	10000	10.0	2.6	21.5	5.8	25.5	1.0	495-1448-ND	.76	6.48	54.00	307.80	287.28/M	S20K275E2
300	385	470	775	100	10000	10.0	2.8	21.5	6.1	25.5	1.0	495-1449-ND	.76	6.48	54.00	307.80	287.28/M	S20K300E2
									Automotive Series - Fig. 2									
14	16	22	43	10	1000	7.5	1.5	17.0	5.0	20.5	.8	495-1450-ND	.69	5.88	49.00	279.30	260.68/M	S14K14AUTO
14	16	22	43	20	2000	10.0	1.6	23.0	5.4	27.5	1.0	495-1451-ND	.91	7.77	64.75	369.08	344.47/M	S20K14AUTO

Strap Varistors - HighE Series

Specifications:

- Coating: Epoxy resin, flame-retardant to UL 94V-0
- Bolt-holed strap terminals for screw fixing or soldering
- Bent strap terminals
- Operating Temperature Range: -25°C ~ 85°C
- Storage Temperature Range: -25°C ~ 110°C
- Electric Strength: ≥2.5 $kVAC_{RMS}$
- Insulation Resistance: ≥10MΩ
- Response Time: <25ns

Features:

- Maximum load capacity with minimum size
- Approvals: UL, CSA

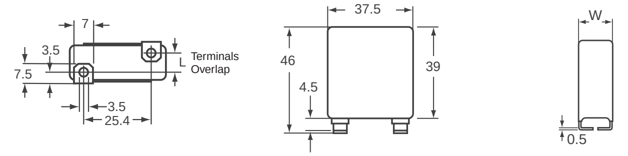

Maximum Allowable Voltage (V) AC	DC	Varistor Voltage @ 1mA ±10% (V)	Maximum Clamping Voltage V	A	$i_{Max.}$ 8/20 µs A	Dimensions (mm) W Maximum	L Overlap	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Epcos Part No.
150	200	240	395	300	40000	8.3	3.2	495-1456-ND	13.90	119.10	992.50	5657.25	5280.10/M	LS40K150QP
275	350	430	710	300	40000	9.4	1.6	495-1457-ND	11.90	102.00	850.00	4845.00	4522.00/M	LS40K275QP
320	420	510	840	300	40000	9.9	1.1	495-1458-ND	11.90	102.00	850.00	4845.00	4522.00/M	LS40K320QP

SMD Varistors

Specifications:

CU Series: • Monolithic varistor element, encapsulated • Encapsulation: Thermoplast, flame retardant to UL 94V-0 • Termination: Tinned copper alloy • Operating Temperature Range: -40°C ~ 85°C • Storage Temperature Range: -40°C ~ 125°C • Electric Strength: ≥2.5kVAC$_{RMS}$ • Insulation Resistance: ≥1.0GΩ • Response Time: <10ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s

Automotive Series: • Multilayer Technology • Termination: Silver palladium • No plastic or epoxy encapsulation assures better than UL 94V-0 flammability rating • Operating Temperature Range: -55°C ~ 125°C • Storage Temperature Range: -55°C ~ 150°C • Response Time: <0.5ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s

Telecom Series: • Multilayer Technology • Termination: Silver palladium • No plastic or epoxy encapsulation assures better than UL 94V-0 flammability rating • Operating Temperature Range: -40°C ~ 85°C • Storage Temperature Range: -40°C ~ 125°C • Response Time: <0.5ns • Solderability: 235°C, 2s • Resistance to soldering heat: 260°C, 10s

Features:

CU Series: • Electrical equivalents to leaded types S05/S07 up to 460 VAC$_{RMS}$ • Good Solderability • Approvals: UL (all types) and CSA (≥K130)

Automotive Series: • High energy absorption, particularly in case of load dump • Stable protection level, low leakage current • High resistance to cyclic temperature stress • Wide operating temperature range • Low inductance (suitable for ESD protection) • Bidirectional clamping

Telecom Series: • Suitable for handling surge voltages of up to 2kV • Suitable for handling the surge current of the 10/700µs pulse to ITU-T and IEC 61000-4-5 • Matched to line conditions with or without superimposed ringing voltage • Good Solderability • Suitable for ESD protection

Fig. 1

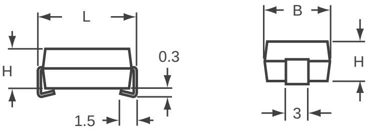

Fig. 2

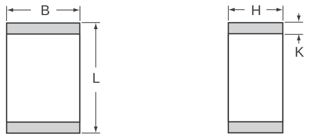

Max. Allowance Voltage (V) AC	DC	Varistor Voltage @ 1mA (V)	Tol. %	Max. Clamping Voltage V	A	imax 8/20 µs A	Dimensions (mm) L	B	H	K	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Epcos Part No.
Monolithic CU Series - Fig. 1																		
150	200	240	±10	395	5.0	400	8.0	6.3	3.2	—	495-1463-1-ND	.63	.59	.45	495-1463-2-ND	1,000	252.00	CU3225K150G2K1
275	350	430	±10	710	5.0	400	8.0	6.3	4.5	—	495-1464-1-ND	.63	.59	.45	495-1464-2-ND	1,000	252.00	CU3225K275G2K1
300	385	470	±10	775	5.0	400	8.0	6.3	4.5	—	495-1465-1-ND	.63	.59	.45	495-1465-2-ND	1,000	252.00	CU3225K300G2K1
150	200	240	±10	395	10	1200	10.2	8.0	3.2	—	495-1466-1-ND	.76	.71	.54	495-1466-2-ND	1,000	302.40	CU4032K150G2K1
275	350	430	±10	710	10	1200	10.2	8.0	4.5	—	495-1467-1-ND	.76	.71	.54	495-1467-2-ND	1,000	302.40	CU4032K275G2K1
300	385	470	±10	775	10	1200	10.2	8.0	4.5	—	495-1468-1-ND	.76	.71	.54	495-1468-2-ND	1,000	302.40	CU4032K300G2K1
MLV Automotive Series - Fig. 2																		
14	16	22	+23/-0	40	1.0	200	3.2	1.6	1.7	.25~.75	495-1459-1-ND	.39	.36	.28	495-1459-2-ND	3,000	154.00/M	CN1206S14BAUTOG
14	16	22	+23/-0	40	2.5	400	3.2	2.5	1.7	.25~.75	495-1460-1-ND	.47	.44	.34	495-1460-2-ND	3,000	189.00/M	CN1210S14BAUTOG
14	16	22	+23/-0	40	10	1200	5.7	5.0	2.5	.25~1.0	495-1461-1-ND	1.47	1.37	1.05	495-1461-2-ND	1,500	588.00/M	CN2220S14BAUTOG
MLV Telecom Series - Fig. 2																		
95	125	150	+20/-0	270	45	250	4.5	3.2	2.5	.25~1.0	495-1462-1-ND	.78	.73	.56	495-1462-2-ND	3,000	312.20/M	CN1812S95AG2

Block Varistors - HighE Series

Specifications:

- Disk-shaped varistor element, potted in plastic housing
- Housing and potting flame-retardant to UL 94 V-0
- Screw terminals M4
- Operating Temperature Range: -40°C ~ 85°C
- Storage Temperature Range: -40°C ~ 110°C
- Electric Strength: ≥2.5 kV$_{RMS}$
- Insulation Resistance: ≥10MΩ
- Response Time: <25ns

Features:

- Heavy-duty varistors (surge current capability up to 100kA)
- Wide product range
- Approvals: UL, CSA (≥K130), SEV

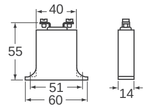

Max. Allowance Voltage (V) AC	DC	Varistor Voltage @ 1mA ±10% (V)	Max. Clamping Voltage V	A	imax 8/20 µs A	Digi-Key Part No.	Pricing 1	10	100	1,000	5,000	Epcos Part No.
130	170	205	340	200	25000	495-1452-ND	21.88	187.50	1562.50	8906.25	8312.50/M	B32K130
150	200	240	395	200	25000	495-1453-ND	21.88	187.50	1562.50	8906.25	8312.50/M	B32K150
130	170	205	340	300	40000	495-1454-ND	27.30	234.00	1950.00	11115.00	10374.00/M	B40K130
150	200	240	395	300	40000	495-1455-ND	27.30	234.00	1950.00	11115.00	10374.00/M	B40K150

Surge Arresters

Gas-filled surge arresters offer optimum protection from atmospheric fields and discharges, inductive coupling from power supply lines, direct contact between communication and power lines, and electrostatic discharges. Epcos surge arresters limit overvoltages quickly and safely to uncritical levels and reliably discharge the resulting dangerous currents.

Specifications:

• Insulation Resistance at 100V: 10GΩ; Part No. A81-C90X, EC75X, EC90X, and T83-A90X Resistance at 50V: 10GΩ • Operation and Storage Temperature: -40°C ~ 90°C • Climatic Category (IEC 60068-1) 40/90/21

Fig. 1

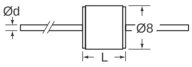

Fig. 2

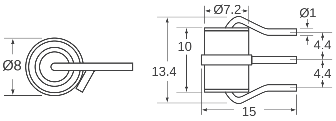

Fig. 3

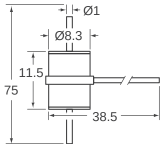

DC Spark-over Voltage (V)	Tolerance (%)	Nominal Impulse Discharge Current (Wave 8/20 µs)	Nominal Alternating Discharge Current	Cap. @ (1 MHz)	Dim. L (mm)	Dim. ød (mm)	Digi-Key Part No.	Pricing 1	10	100	500	Epcos Part No.
Fig. 1												
1000	±15	10kA	10A	1pF	7.9	1	495-1469-ND	3.84	32.00	256.00	1120.00	A71-H10X
2500	±20	2.5kA	2.5A	1pF	7.9	1	495-1470-ND	3.84	32.00	256.00	1120.00	A71-H25X
230	±20	20kA	20A	1.5pF	6.05	1	495-1471-ND	2.16	18.00	144.00	630.00	A81-A230X
90	±20	20kA	20A	1.5pF	6.05	1	495-1472-ND	2.16	18.00	144.00	630.00	A81-C90X
230	±15	5kA	5A	1pF	6.05	0.8	495-1473-ND	1.35	11.25	90.00	393.75	EC230X
350	±15	5kA	5A	1pF`	6.05	0.8	495-1474-ND	1.38	11.50	92.00	402.50	EC350X
75	±20	5kA	5A	1pF	6.05	0.8	495-1475-ND	1.38	11.50	92.00	402.50	EC75X
90	±20	5kA	5A	1pF	6.05	0.8	495-1476-ND	1.38	11.50	92.00	402.50	EC90X
270	-10/+25	5kA	5A	1.5pF	7.9	1	495-1477-ND	2.79	23.25	186.00	813.75	L71-A270X
470	-10/+25	5kA	5A	1.5pF	7.9	1	495-1478-ND	2.79	23.25	186.00	813.75	L71-A470X
800	-10/+25	5kA	5A	1.5pF	7.9	1	495-1479-ND	2.79	23.25	186.00	813.75	L71-A800X
230	±20	10kA	10A	1.5pF	6.05	1	495-1878-ND	1.56	13.00	104.00	455.00	N81-A230X
350	±20	10kA	10A	1.5pF`	6.05	1	495-1879-ND	1.56	13.00	104.00	455.00	N81-A350X
Fig. 2												
230	±20	20kA	10A	1.5pF	—	—	495-1480-ND	2.49	20.75	166.00	726.25	T23-A230X
90	±20	10kA	10A	1.5pF	—	—	495-1482-ND	2.19	18.25	146.00	638.75	T83-A90X
Fig. 3												
350	±25	20kA	20A	1.5pF	—	—	495-1481-ND	4.08	34.00	272.00	1190.00	T61-C350X

SRC DEVICES

NEW! Thru-Hole Surge Arresters — GDTs

Dimensions: Inches (mm)

AC120 and AC240 Series:
Specifically designed for protection on the AC line voltages for a high degree of surge protection in AC powered equipment. UL1449 recognized, CSA approved.
CG, CG2 and CG3 Series:
Designed for a high degree of surge protection at a very low cost. Use the CG series for protection of test and communication equipment where low voltage limits and extremely low arc voltages are required. UL recognized, CSA approved (CG3 Series).
CG5 Series:
Physically smaller sized than the CG series but are able to handle currents that far surpass other types of TVS protection.
PMT3 Series:
Designed for telecommunication equipment in which simultaneous crowbar action of two signal lines is required. UL recognized.

Fig. 1

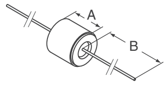

Fig. 2

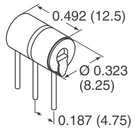

Fig.	Description	Dimensions - Inches (mm)		Digi-Key Part No.	Price Each				SRC Devices Part No.
		A	B		1	10	50	100	
	AC120/240V								
1	120VAC Line Voltage Surge Arrester, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1065-ND	2.93	2.48	2.07	1.69	AC120L
	240VAC Line Voltage Surge Arrester, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1066-ND	2.93	2.48	2.07	1.69	AC240L
	CG/CG2 Series								
1	75VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1067-ND	2.93	2.48	2.07	1.69	CG75L
	90VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1069-ND	2.93	2.48	2.07	1.69	CG90L
	110VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1071-ND	2.93	2.48	2.07	1.69	CG110L
	145VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1075-ND	2.93	2.48	2.07	1.69	CG2145L
	230VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1077-ND	2.93	2.48	2.07	1.69	CG2230L
	350VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1079-ND	2.93	2.48	2.07	1.69	CG2350L
	470VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1081-ND	2.93	2.48	2.07	1.69	CG2470L
	600VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1083-ND	3.22	2.73	2.28	1.86	CG2600L
	800VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1085-ND	3.22	2.73	2.28	1.86	CG2800L
	1000VDC Gas Discharge Tube, Axial Lead	0.24 (6.07)	1.50 (38.10)	420-1073-ND	3.22	2.73	2.28	1.86	CG21000L
	CG3 Series High Voltage								
1	1500VDC High Voltage Gas Discharge Tube, Axial Lead	0.30 (7.57)	0.96 (24.28)	420-1105-ND	3.77	3.19	2.67	2.18	CG31.5L
	2500VDC High Voltage Gas Discharge Tube, Axial Lead	0.30 (7.57)	0.96 (24.28)	420-1087-ND	3.77	3.19	2.67	2.18	CG32.5L
	5000VDC High Voltage Gas Discharge Tube, Axial Lead	0.40 (10.11)	0.96 (24.28)	420-1103-ND	4.10	3.47	2.90	2.37	CG35.0L
	7500VDC High Voltage Gas Discharge Tube, Axial Lead	0.40 (10.11)	0.96 (24.28)	420-1088-ND	4.10	3.47	2.90	2.37	CG37.5L
	CG5 Series High Performance								
1	90VDC High Performance Gas Discharge Tube, Axial Lead	0.20 (5.00)	0.96 (24.28)	420-1089-ND	2.67	2.26	1.89	1.54	CG590L
	230VDC High Performance Gas Discharge Tube, Axial Lead	0.20 (5.00)	0.96 (24.28)	420-1091-ND	2.67	2.26	1.89	1.54	CG5230L
	350VDC High Performance Gas Discharge Tube, Axial Lead	0.20 (5.00)	0.96 (24.28)	420-1093-ND	2.67	2.26	1.89	1.54	CG5350L
	PMT3 Series 3 Electrode Telcom								
2	250VDC 3 Pin Gas Discharge Tube, PCB Mount	—	—	420-1095-ND	5.95	5.04	4.21	3.44	PMT3 (310) 25010
	350VDC 3 Pin Gas Discharge Tube, PCB Mount	—	—	420-1096-ND	5.95	5.04	4.21	3.44	PMT3 (310) 35010

NEW! SMT Surge Arresters — GDTs

Dimensions: Inches (mm)

The CG and PMT Series surge arresters have been specifically designed for use in SMT assembly applications for the protection of electrical and communication equipment. Low capacitance and UL recognized for surge protection in power supplies, communication and CATV equipment, data lines, ADSL equipment and more.

Fig. 1

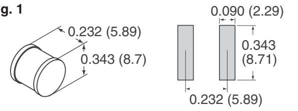

Fig. 2

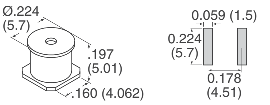

Fig. 3

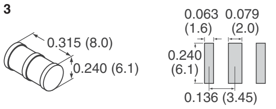

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel		SRC Devices Part No.
			1	10	50	100		Size	Pricing	
	CG Series									
1	75VDC Gas Discharge Tube, SMT	420-1068-1-ND	3.02	2.70	2.19	1.86	420-1068-2-ND	250	360.50	CG75MS
	90VDC Gas Discharge Tube, SMT	420-1070-1-ND	3.02	2.70	2.19	1.86	420-1070-2-ND	250	360.50	CG90MS
	110VDC Gas Discharge Tube, SMT	420-1072-1-ND	2.93	2.61	2.12	1.80	420-1072-2-ND	250	348.75	CG110MS
	145VDC Gas Discharge Tube, SMT	420-1076-1-ND	2.93	2.61	2.12	1.80	420-1076-2-ND	250	348.75	CG2145MS
	230VDC Gas Discharge Tube, SMT	420-1078-1-ND	2.93	2.61	2.12	1.80	420-1078-2-ND	250	348.75	CG2230MS
	350VDC Gas Discharge Tube, SMT	420-1080-1-ND	2.93	2.61	2.12	1.80	420-1080-2-ND	250	348.75	CG2350MS
	470VDC Gas Discharge Tube, SMT	420-1082-1-ND	2.93	2.61	2.12	1.80	420-1082-2-ND	250	348.75	CG2470MS
	600VDC Gas Discharge Tube, SMT	420-1084-1-ND	2.93	2.61	2.12	1.80	420-1084-2-ND	250	383.75	CG2600MS
	800VDC Gas Discharge Tube, SMT	420-1086-1-ND	2.93	2.61	2.12	1.80	420-1086-2-ND	250	348.75	CG2800MS
	1000VDC Gas Discharge Tube, SMT	420-1074-1-ND	2.93	2.61	2.12	1.80	420-1074-2-ND	250	348.75	CG21000MS
	CG5 Series High Performance									
2	90VDC Mini Gas Discharge Tube, SMT	420-1090-1-ND	2.67	2.38	1.93	1.64	420-1090-2-ND	500	574.00	CG590MS
	230VDC Mini Gas Discharge Tube, SMT	420-1092-1-ND	2.67	2.38	1.93	1.64	420-1092-2-ND	1,000	1189.00	CG5230MS
	350VDC Mini Gas Discharge Tube, SMT	420-1094-1-ND	2.67	2.38	1.93	1.64	420-1094-2-ND	500	574.00	CG5350MS
	PMT6 Series 3-Terminal									
3	90VDC 3-Terminal Gas Discharge Tube, SMT	420-1097-1-ND	3.84	3.43	2.78	2.36	420-1097-2-ND	250	451.25	PMT690MS
	250VDC 3-Terminal Gas Discharge Tube, SMT	420-1098-1-ND	3.84	3.43	2.78	2.36	420-1098-2-ND	250	451.25	PMT6250MS
	350VDC 3-Terminal Gas Discharge Tube, SMT	420-1099-1-ND	3.84	3.43	2.78	2.36	420-1099-2-ND	250	451.25	PMT6350MS
	600VDC 3-Terminal Gas Discharge Tube, SMT	420-1100-1-ND	3.84	3.43	2.78	2.36	420-1100-2-ND	250	451.25	PMT6600MS

Surge Arrestors

Features: • Hermetically Sealed • Fast Response • Low Capacitance • UL Certified, File #E245199 **Specifications:** • Insulation Resistance: 10mΩ minimum • Inter-Electrode Capacitance: 1.0pF maximum **Applications:** • I.C. Circuits • Telephone Circuits • Signal Lines • Electro-Static Charge Elimination • Protections against Switching Surges

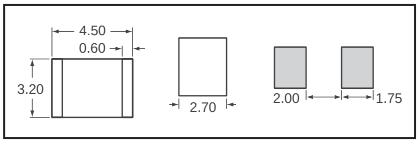

DC Firing Voltage	Impulse Current (Maximum)	AC Discharge Current	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 500	Lumex Part No.
150	1KA	1A	67-2000-1-ND	1.76	1.47	1.18	67-2000-2-ND	486.38	GT-SMD181215012-TR
	2KA	2A	67-2001-1-ND	1.97	1.65	1.32	67-2001-2-ND	545.31	GT-SMD181215022-TR
200	1KA	1A	67-2002-1-ND	1.70	1.42	1.14	67-2002-2-ND	471.44	GT-SMD181220012-TR
	2KA	2A	67-2003-1-ND	2.02	1.69	1.35	67-2003-2-ND	559.42	GT-SMD181220022-TR
300	1KA	1A	67-2004-1-ND	1.65	1.38	1.10	67-2004-2-ND	456.50	GT-SMD181230012-TR
	2KA	2A	67-2005-1-ND	2.02	1.69	1.35	67-2005-2-ND	559.42	GT-SMD181230022-TR
350	1KA	1A	67-2006-1-ND	1.60	1.33	1.07	67-2006-2-ND	441.56	GT-SMD181235012-TR
	2KA	2A	67-2007-1-ND	2.02	1.69	1.35	67-2007-2-ND	559.42	GT-SMD181235022-TR
400	1KA	1A	67-2008-1-ND	1.55	1.29	1.03	67-2008-2-ND	427.45	GT-SMD181240012-TR
	2KA	2A	67-2009-1-ND	2.08	1.73	1.39	67-2009-2-ND	574.36	GT-SMD181240022-TR

Leaded Varistors

The varistors consist of a disc of low-B ceramic material with two tinned solid copper leads. They are coated with a layer of ochre colored epoxy, which provides electrical, mechanical and climatic protection.
The encapsulation is resistant to all cleaning solvents in accordance with "IEC 60068-2-45".

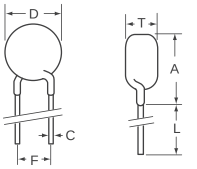

Size Code	Dimensions (mm) D Maximum	A Maximum	L Minimum	T Maximum	T Minimum	C	F
A	7.0	9.0	27.0	6.0	4.1	0.6 ±0.05	5.0 +0.6/-0.1
B	9.0	11.0	27.0	6.0	4.1	0.6 ±0.05	5.0 +0.6/-0.1
C	13.5	15.5	17.0	7.0	4.4	0.8 ±0.05	7.5 ±0.8
D	17.0	19.0	16.0	7.0	4.4	0.8 ±0.05	7.5 ±0.8

Size Code	Maximum Cont inuous Volt. AC (V)	DC (V)	Varistor Voltage @ 1mA (V)	Maximum Voltage Stated Current V (V)	I (A)	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
A	35	45	56	123	1.0	BC1383-ND	.26	.23	.19	2322 592 53506
	50	65	82	145	5.0	BC1385-ND	.26	.23	.19	2322 592 55006
	75	100	120	190	5.0	BC1387-ND	.26	.23	.19	2322 592 57506
	175	225	275	410	5.0	BC1392-ND	.26	.23	.19	2322 592 51716
	230	300	360	560	5.0	BC1393-ND	.26	.23	.19	2322 592 52316
	320	420	510	800	5.0	BC1397-ND	.30	.26	.22	2322 592 53216
	420	560	680	1100	5.0	BC1399-ND	.26	.23	.19	2322 592 54216
	460	615	750	1200	5.0	BC1400-ND	.26	.23	.19	2322 592 54616
B	30	38	47	93	2.5	BC1401-ND	.26	.23	.19	2322 593 53006
	75	100	120	200	10.0	BC1406-ND	.26	.23	.19	2322 593 57506
	130	170	205	340	10.0	BC1408-ND	.26	.23	.19	2322 593 51316
	175	225	275	455	10.0	BC1411-ND	.26	.23	.19	2322 593 51716
	250	320	390	650	10.0	BC1413-ND	.26	.23	.19	2322 593 52516
	300	385	470	800	10.0	BC1415-ND	.26	.23	.19	2322 593 53016
	420	560	680	1120	10.0	BC1418-ND	.26	.23	.19	2322 593 54216
C	30	38	47	93	5.0	BC1420-ND	.46	.39	.33	2322 594 53006
	35	45	56	110	5.0	BC1421-ND	.46	.39	.33	2322 594 53506
	60	85	100	165	25.0	BC1424-ND	.53	.46	.38	2322 594 56006

Size Code	Maximum Continuous Volt. AC (V)	DC (V)	Varistor Voltage @ 1mA (V)	Maximum Voltage Stated Current V (V)	I (A)	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
C	75	100	120	200	25.0	BC1425-ND	.46	.39	.33	2322 594 57506
	140	180	220	370	25.0	BC1428-ND	.46	.39	.33	2322 594 51416
	150	200	240	400	25.0	BC1429-ND	.46	.39	.33	2322 594 51516
	175	225	275	455	25.0	BC1430-ND	.46	.39	.33	2322 594 51716
	230	300	360	600	25.0	BC1431-ND	.46	.39	.33	2322 594 52316
	250	320	390	650	25.0	BC1432-ND	.46	.39	.33	2322 594 52516
	420	560	680	1120	25.0	BC1437-ND	.46	.39	.33	2322 594 54216
D	30	38	47	90	10.0	BC1441-ND	.59	.51	.42	2322 595 53006
	60	85	100	165	50.0	BC1445-ND	.59	.51	.42	2322 595 56006
	130	170	205	340	50.0	BC1448-ND	.59	.51	.42	2322 595 51316
	140	180	220	370	50.0	BC1449-ND	.59	.51	.42	2322 595 51416
	175	225	275	455	50.0	BC1451-ND	.59	.51	.42	2322 595 51716
	275	350	430	710	50.0	BC1454-ND	.59	.51	.42	2322 595 52716
	300	385	470	800	50.0	BC1455-ND	.59	.51	.42	2322 595 53016
	320	420	510	850	50.0	BC1456-ND	.59	.51	.42	2322 595 53216
	385	505	620	1025	50.0	BC1457-ND	.59	.51	.42	2322 595 53816
	460	615	750	1240	50.0	BC1459-ND	.68	.58	.49	2322 595 54616

Multilayer Chip Varistor (0805 Size) Surface Mount

Features:

- Multilayer Surface Mount surge suppressor
- Inherent bidirectional clamping
- Low capacitance types available
- Excellent energy/volume ratio
- Suitable for wave or reflow soldering
- Compliance to IEC 1 000-4-2
- Operating Temperature Range: -55°C ~ 125°C

Applications:

- Data lines and I/O port protection
- Protection against EMI and ESD transients
- On-board protection of ICs and transistors
- Modem protection
- LCD protection

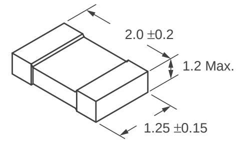

Maximum Operating Voltage RMS (VAC)	DC (VDC)	Varistor Voltage @ 1mA Minimum (V)	Maximum (V)	Maximum Clamping Voltage @ 1mA (V)	Maximum Peak Current 8 x 20 µs (A)	Maximum Surge Energy 10 x 1000 µs (J)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	BC Components Part No.
4	5.5	6.4	9.6	21	30	0.1	BC1500CT-ND	.35	.31	.26	2322 574 10403
8	11	—	—	33	80	0.3	BC1502CT-ND	.39	.35	.29	2322 574 10803
17	22	24.3	29.7	46	30	0.1	BC1505CT-ND	.35	.31	.26	2322 574 11703
25	31	—	—	65	80	0.3	BC1507CT-ND	.35	.31	.26	2322 574 12503

TDK

NEW! Multilayer Chip Varistors for Surge and Static Protection

AVR and AVRL Series

Features:

- No polarity due to symmetrical current-voltatge characteristics
- Excellent electrostatic absorption capability
- Can replace a Zener diode and capacitor combination

Specifications:

- Operating Temperature: -40°C ~ 125°C

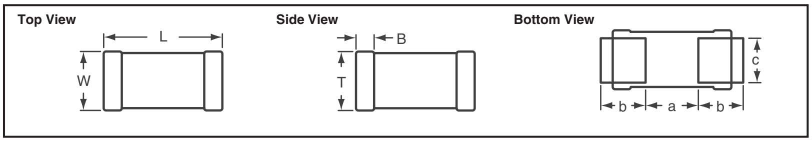

Size Code	Dimensions (mm)						
	L	W	T	B (Min.)	a	b	c
0201	0.6	0.3	0.3	0.1	0.25 ~ 0.35	0.2 ~ 0.3	0.25 ~ 0.35
0402	1.0	0.5	0.5	0.1	0.3 ~ 0.5	0.35 ~ 0.45	0.4 ~ 0.6
0603	1.6	0.8	0.8	0.2	0.6 ~ 0.8	0.6 ~ 0.8	0.6 ~ 0.8
0805	2.0	1.25	1.0	0.2	0.9 ~ 1.2	0.7 ~ 0.9	0.9 ~ 1.2

AVR Series

Size Code	Varistor Voltage (VDC@ 1mA)	Maximum Continuous Voltage (VDC)	Clamping Voltage (8/20µs)	Maximum Peak Current (A)	Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	TDK Part No.
0201	12	7.5	23 (1A)	1	33	445-2558-1-ND	.18	1.66	12.75	445-2558-2-ND	10,000	66.00/M	AVR-M0603C120MTAAB
0402	8	5.5	14 (1A)	25	650	445-2532-1-ND	.12	1.11	8.50	445-2532-2-ND	10,000	44.00/M	AVR-M1005C080MTAAB
			15 (1A)	3	100	445-2533-1-ND	.12	1.11	8.50	445-2533-2-ND	10,000	44.00/M	AVR-M1005C080MTABB
			19 (1A)	1	33	445-2559-1-ND	.12	1.11	8.50	445-2559-2-ND	10,000	44.00/M	AVR-M1005C080MTACB
	12	7.5	20 (1A)	10	130	445-2534-1-ND	.12	1.11	8.50	445-2534-2-ND	10,000	44.00/M	AVR-M1005C120MTAAB
	27	15	50 (1A)	4	40	445-2535-1-ND	.12	1.11	8.50	445-2535-2-ND	10,000	44.00/M	AVR-M1005C270MTAAB
				1	15	445-2536-1-ND	.12	1.11	8.50	445-2536-2-ND	10,000	44.00/M	AVR-M1005C270MTABB
0603	8	5.5	15 (2A)	30	650	445-2537-1-ND	.18	1.66	12.75	445-2537-2-ND	4,000	71.00/M	AVR-M1608C080MTAAB
	12	7.5	20 (2A)	50	1050	445-2538-1-ND	.18	1.66	12.75	445-2538-2-ND	4,000	71.00/M	AVR-M1608C120MT6AB
				15	400	445-2539-1-ND	.18	1.66	12.75	445-2539-2-ND	4,000	71.00/M	AVR-M1608C120MT2AB
	18	11	30 (2A)	30	600	445-2540-1-ND	.18	1.66	12.75	445-2540-2-ND	4,000	71.00/M	AVR-M1608C180MT6AB
	22	16	34 (2A)	30	560	445-2541-1-ND	.18	1.66	12.75	445-2541-2-ND	4,000	71.00/M	AVR-M1608C220KT6AB
			37 (2A)	10	210	445-2542-1-ND	.18	1.66	12.75	445-2542-2-ND	4,000	71.00/M	AVR-M1608C220KT2AB
	27	19	42 (2A)	48	430	445-2543-1-ND	.18	1.66	12.75	445-2543-2-ND	4,000	71.00/M	AVR-M1608C270KT6AB
				20	160	445-2544-1-ND	.18	1.66	12.75	445-2544-2-ND	4,000	71.00/M	AVR-M1608C270KT2AB
		17	52 (2A)	2	30	445-2545-1-ND	.18	1.66	12.75	445-2545-2-ND	4,000	71.00/M	AVR-M1608C270MTAAB
					15	445-2546-1-ND	.18	1.66	12.75	445-2546-2-ND	4,000	71.00/M	AVR-M1608C270MTABB
0805	12	7.5	20 (5A)	60	1000	445-2547-1-ND	.33	3.04	23.38	445-2547-2-ND	2,000	131.00/M	AVR-M2012C120MT6AB
	22	16	38 (5A)	100	800	445-2548-1-ND	.33	3.04	23.38	445-2548-2-ND	2,000	131.00/M	AVR-M2012C220KT6AB
	39	28	62 (5A)	100	430	445-2549-1-ND	.33	3.04	23.38	445-2549-2-ND	2,000	131.00/M	AVR-M2012C390KT6AB

AVRL Series

Size Code	Typical Varistor Voltage (VDC @ 1mA)	Maximum Continuous Voltage (VDC)	Capacitance (pF)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	TDK Part No.
0402	90	10	1.1	445-2560-1-ND	.18	1.66	12.75	445-2560-2-ND	10,000	66.00/M	AVRL101A1R1NTA
	39	10	1.1	445-2561-1-ND	.18	1.66	12.75	445-2561-2-ND	10,000	66.00/M	AVRL101A1R1NTB
	27	10	3.3	445-2562-1-ND	.18	1.66	12.75	445-2562-2-ND	10,000	66.00/M	AVRL101A3R3FTA
			6.8	445-2563-1-ND	.18	1.66	12.75	445-2563-2-ND	10,000	66.00/M	AVRL101A6R8GTA
0603	90	10	1.1	445-2564-1-ND	.24	2.21	17.01	445-2564-2-ND	4,000	95.00/M	AVRL161A1R1NTA
	39	10	1.1	445-2565-1-ND	.24	2.21	17.01	445-2565-2-ND	4,000	95.00/M	AVRL161A1R1NTB
	27	10	3.3	445-2566-1-ND	.24	2.21	17.01	445-2566-2-ND	4,000	95.00/M	AVRL161A3R3FTA
			6.8	445-2567-1-ND	.24	2.21	17.01	445-2567-2-ND	4,000	95.00/M	AVRL161A6R8GTA

TAIYO YUDEN

NEW! Multilayer Chip Varistors

Features:

- High speed response is an effective countermeasure for acute ESD
- No polarity makes effective countermeasure for both directions with one component
- High resistance to static electricty keeps high performance after static electricity is applied

Applications:

- ESD Protection

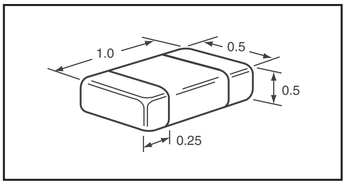

Dimensions in mm

Size Code	Varistor Voltage (V)	Tolerance	Rated Voltage (VDC)	Clamping Volgate@ .1A (V)	Peak Current (8/20µsec) (A)	Capacitance (pF)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 10,000	Taiyo Yuden Part No.
0402	8	20%	5.5	15	3	100	587-1416-1-ND	.11	.10	.08	587-1416-2-ND	39.00/M	VR1005AAA080-T
					25	650	587-1420-1-ND	.11	.10	.08	587-1420-2-ND	39.00/M	VR1005BBA080-T
	12	20%	7.5	22	5	130	587-1417-1-ND	.11	.10	.08	587-1417-2-ND	39.00/M	VR1005AAA120-T
	18	20%	10	32	10	140	587-1418-1-ND	.11	.10	.08	587-1418-2-ND	39.00/M	VR1005AAA180-T
	27	20%	15	46	5	40	587-1419-1-ND	.11	.10	.08	587-1419-2-ND	39.00/M	VR1005AAA270-T
					10	80	587-1421-1-ND	.11	.10	.08	587-1421-2-ND	39.00/M	VR1005BBA270-T
					1	15	587-1422-1-ND	.11	.10	.08	587-1422-2-ND	39.00/M	VR1005CCA270-T

tyco Electronics

Raychem CIRCUIT PROTECTION

Metal Oxide Varistors

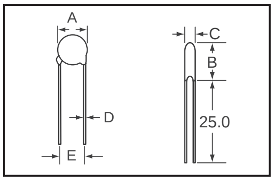

The ROV Series (Radial-leaded Metal Oxide Varistor) products are suitable for protection for a wide variety of overvoltage transients such as lightning, power contact and power induction. The ROV device helps to protect valuable equipment from potential power surge damage by clamping high energy, short duration pulses. They also have high current handling and energy absorption capability and fast response times.

Specifications: • **Resistive Material and Structure:** Metal-Oxide • **Response Time:** 25ns maximum • **Contact Type:** 2 Leads - Radial; Straight Leads • **Contact Material:** Copper • **Contact Finish:** Tin-Lead • **Operating/Storage Temperature:** -40°C ~ 125°C • **Lead Length:** 25mm • **Lead Diameter**: ROV05, ROV07, ROV07H Series: 22AWG, ROV10, ROV14, ROV14H Series: 20AWG, ROV20 Series: 18AWG

Note: See data for agency recognition.

Allowable Voltage (max.)		Varistor Voltage @0.1mA	Clamp (max.) Voltage @ Test Current		Dimensions (mm)					Digi-Key	Pricing					Raychem
Vrms	VDC	VDC	VDC	A	A (max.)	B (max.)	C (max.)	D (typ.)	E (min.)	Part No.	1	10	100	500	1,000	Part No.
ROV05 Series — Standard Surge Capability																
11	14	18	40	1	7.5	10.5	4.5	0.6	5.0	ROV05-180M-S-ND	.10	.91	8.25	32.18	56.10	ROV05-180M-S
14	18	22	48	1	7.5	10.5	4.5	0.6	5.0	ROV05-220L-S-ND	.10	.91	8.25	33.00	57.26	ROV05-220L-S
20	26	33	73	1	7.5	10.5	4.7	0.6	5.0	ROV05-330K-S-ND	.10	.91	8.25	32.18	56.10	ROV05-330K-S
50	65	82	145	5	7.5	10.5	3.8	0.6	5.0	ROV05-820KS-ND	.08	.69	6.25	25.00	43.38	ROV05-820K-S
130	170	200	355	5	7.5	10.5	4.2	0.6	5.0	ROV05-201K-S-ND	.08	.69	6.25	25.00	43.33	ROV05-201K-S
140	180	220	380	5	7.5	10.5	4.3	0.6	5.0	ROV05-221K-S-ND	.08	.69	6.25	25.00	43.33	ROV05-221K-S
175	225	270	475	5	7.5	10.5	4.6	0.6	5.0	ROV05-271K-S-ND	.07	.61	5.50	21.58	37.23	ROV05-271K-S
230	300	360	620	5	7.5	10.5	5.1	0.6	5.0	ROV05-361K-S-ND	.08	.69	6.25	25.00	43.33	ROV05-361K-S
250	320	390	675	5	7.5	11.0	5.3	0.6	5.0	ROV05-391K-S-ND	.07	.61	5.50	21.58	37.23	ROV05-391K-S
275	350	430	745	5	7.5	11.0	6.1	0.6	5.0	ROV05-431K-S-ND	.07	.61	5.50	21.58	37.23	ROV05-431K-S
300	385	470	810	5	7.5	11.0	6.4	0.6	5.0	ROV05-471K-S-ND	.07	.61	5.50	21.58	37.23	ROV05-471K-S
320	418	510	880	5	7.5	11.5	6.6	0.6	5.0	ROV05-511K-S-ND	.08	.77	7.00	28.00	48.59	ROV05-511K-S
350	460	560	940	5	7.5	11.5	6.9	0.6	5.0	ROV05-561K-S-ND	.08	.77	7.00	28.00	48.59	ROV05-561K-S
ROV07 Series — Standard Surge Capability																
11	14	18	36	2.5	9.0	12.0	4.5	0.6	5.0	ROV07-180M-S-ND	.11	.96	8.75	34.58	59.17	ROV07-180M-S
14	18	22	43	2.5	9.0	12.0	4.5	0.6	5.0	ROV07-220L-S-ND	.11	.96	8.75	34.58	59.17	ROV07-220L-S
17	22	27	53	2.5	9.0	12.0	4.7	0.6	5.0	ROV07-270K-S-ND	.11	.96	8.75	34.58	59.17	ROV07-270K-S
20	26	33	65	2.5	9.0	12.0	4.7	0.6	5.0	ROV07-330K-S-ND	.11	.96	8.75	34.58	59.17	ROV07-330K-S
30	38	47	93	2.5	9.0	12.0	5.0	0.6	5.0	ROV07-470K-S-ND	.11	.96	8.75	34.58	59.17	ROV07-470K-S
130	170	200	340	10	9.0	12.0	4.2	0.6	5.0	ROV07-201K-S-ND	.08	.74	6.75	26.58	46.41	ROV07-201K-S
140	180	220	360	10	9.0	12.0	4.3	0.6	5.0	ROV07-221K-S-ND	.08	.74	6.75	26.58	46.41	ROV07-221K-S
150	200	240	395	10	9.0	12.0	4.4	0.6	5.0	ROV07-241K-S-ND	.07	.63	5.75	23.00	39.43	ROV07-241K-S
175	225	270	455	10	9.0	12.0	4.6	0.6	5.0	ROV07-271K-S-ND	.07	.63	5.75	23.00	39.43	ROV07-271K-S
230	300	360	595	10	9.0	12.0	5.1	0.6	5.0	ROV07-361K-S-ND	.08	.74	6.75	26.58	46.41	ROV07-361K-S
250	320	390	650	10	9.0	12.5	5.3	0.6	5.0	ROV07-391K-S-ND	.07	.63	5.75	23.00	39.43	ROV07-391K-S
275	350	430	710	10	9.0	12.5	6.1	0.6	5.0	ROV07-431K-S-ND	.07	.63	5.75	23.00	39.43	ROV07-431K-S
300	385	470	775	10	9.0	12.5	6.4	0.6	5.0	ROV07-471K-S-ND	.07	.63	5.75	23.00	39.43	ROV07-471K-S
320	418	510	842	10	9.0	13.0	6.6	0.6	5.0	ROV07-511K-S-ND	.09	.83	7.50	29.58	50.83	ROV07-511K-S
ROV07H Series — High Surge Capability																
210	275	330	550	10	9.0	12.0	4.9	0.6	5.0	ROV07H331K-S-ND	.08	.77	7.00	27.63	47.89	ROV07H331K-S
ROV10 Series — Standard Surge Capability																
11	14	18	36	5	12.5	15.5	4.9	0.8	7.5	ROV10-180M-S-ND	.17	1.51	13.75	53.77	92.76	ROV10-180M-S
14	18	22	43	5	12.5	15.5	4.9	0.8	7.5	ROV10-220L-S-ND	.17	1.51	13.75	53.77	92.76	ROV10-220L-S
17	22	27	53	5	12.5	15.5	5.1	0.8	7.5	ROV10-270K-S-ND	.17	1.51	13.75	53.77	92.76	ROV10-270K-S
35	45	56	110	5	12.5	15.5	5.5	0.8	7.5	ROV10-560K-S-ND	.17	1.51	13.75	53.77	92.76	ROV10-560K-S
130	170	200	340	25	12.5	15.5	4.6	0.8	7.5	ROV10-201K-S-ND	.12	1.13	10.25	41.00	70.29	ROV10-201K-S
175	225	270	455	25	12.5	15.5	5.0	0.8	7.5	ROV10-271K-S-ND	.11	.96	8.75	34.58	59.17	ROV10-271K-S
210	275	330	550	25	12.5	15.5	5.3	0.8	7.5	ROV10-331K-S-ND	.13	1.21	11.00	43.58	75.55	ROV10-331K-S
250	320	390	650	25	12.5	16.0	5.7	0.8	7.5	ROV10-391K-S-ND	.13	1.16	10.50	41.16	70.56	ROV10-391K-S
300	385	470	775	25	12.5	16.0	6.8	0.8	7.5	ROV10-471K-S-ND	.13	1.16	10.50	41.16	70.56	ROV10-471K-S
320	418	510	842	25	12.5	16.5	7.0	0.8	7.5	ROV10-511K-S-ND	.16	1.43	13.00	50.76	87.49	ROV10-511K-S
350	460	560	920	25	12.5	16.5	7.3	0.8	7.5	ROV10-561K-S-ND	.14	1.29	11.75	46.59	79.98	ROV10-561K-S
ROV14 Series — Standard Surge Capability																
11	14	18	36	10	16.5	19.5	5.0	0.8	7.5	ROV14-180M-S-ND	.24	2.17	19.75	77.34	133.05	ROV14-180M-S
14	18	22	43	10	16.5	19.5	5.0	0.8	7.5	ROV14-220L-S-ND	.24	2.17	19.75	77.34	133.05	ROV14-220L-S
140	180	220	360	50	16.5	19.5	4.9	0.8	7.5	ROV14-221K-S-ND	.19	1.73	15.75	61.76	106.11	ROV14-221K-S
150	200	240	395	50	16.5	19.5	5.0	0.8	7.5	ROV14-241K-S-ND	.17	1.51	13.75	53.75	92.50	ROV14-241K-S
250	320	390	650	50	16.5	20.0	5.9	0.8	7.5	ROV14-391K-S-ND	.17	1.60	14.50	56.76	97.77	ROV14-391K-S
300	385	470	775	50	16.5	20.0	7.0	0.8	7.5	ROV14-471K-S-ND	.17	1.60	14.50	56.76	97.77	ROV14-471K-S
320	418	510	842	50	16.5	20.5	7.5	0.8	7.5	ROV14-511K-S-ND	.24	2.17	19.75	77.34	133.05	ROV14-511K-S
350	460	560	920	50	16.5	20.5	7.5	0.8	7.5	ROV14-561K-S-ND	.21	1.95	17.75	69.75	120.28	ROV14-561K-S
ROV14H Series — High Surge Capability																
320	418	510	842	50	16.5	20.5	7.2	0.8	7.5	ROV14H511K-S-ND	.25	2.28	20.75	80.93	139.44	ROV14H511K-S
ROV20 Series — Standard Surge Capability																
11	14	18	36	20	23.0	26.5	5.2	1.0	10.0	ROV20-180M-S-ND	.52	4.79	43.50	169.84	292.22	ROV20-180M-S
14	18	22	43	20	23.0	26.5	5.3	1.0	10.0	ROV20-220M-S-ND	.52	4.79	43.50	169.84	292.22	ROV20-220M-S
130	170	200	340	100	23.0	26.5	5.3	1.0	10.0	ROV20-201K-S-ND	.43	3.91	35.50	139.09	239.16	ROV20-201K-S
140	180	220	360	100	23.0	26.5	5.4	1.0	10.0	ROV20-221K-S-ND	.43	3.91	35.50	139.09	239.16	ROV20-221K-S
175	225	270	455	100	23.0	26.5	5.7	1.0	10.0	ROV20-271K-S-ND	.37	3.36	30.50	119.08	205.56	ROV20-271K-S
230	300	360	595	100	23.0	26.5	6.2	1.0	10.0	ROV20-361K-S-ND	.45	4.10	37.25	145.67	250.55	ROV20-361K-S
250	320	390	650	100	23.0	26.5	6.4	1.0	10.0	ROV20-391K-S-ND	.42	3.88	35.25	137.66	236.95	ROV20-391K-S
300	385	470	775	100	23.0	27.0	7.5	1.0	10.0	ROV20-471K-S-ND	.42	3.88	35.25	137.66	236.95	ROV20-471K-S
320	418	510	842	100	23.0	27.0	7.7	1.0	10.0	ROV20-511K-S-ND	.47	4.26	38.75	152.08	261.67	ROV20-511K-S

Static Guard Multilayer Ceramic Varistor TVS Surface Mount

ESD Protection for CMOS and Bi-Polar Systems

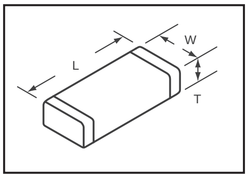

AVX StaticGuard devices are manufactured with the same multilayer construction as the AVX TransGuard Transient Voltage Suppressers (TVS).

The low capacitance of the StaticGuard products makes them ideal choices for ESD protection on high speed data lines.

Also, the low leakage current feature makes these parts optimal for battery operated equipment.

Size	Length mm (inches) L	Width mm (inches) W	Maximum Thickness mm (inches) T
0603	1.60 (.063)	.80 (.031)	.90 (.035)
0805	2.01 (.079)	1.25 (.049)	1.02 (.040)
1206	3.20 (.126)	1.60 (.063)	1.02 (.040)

Size	Working Voltage		Clamping Voltage (V)	Peak Current Rating (A)	Typical Capacitance (pf)	Digi-Key Part No.	Price Each			Tape and Reel*		AVX Part No.
	DC	AC					1	10	100	Size	Pricing	
0603	18.0	14.0	50	30	50	478-2503-1-ND	.35	.33	.25	1,000	135.00	VC06LC18X500DP
0805	18.0	14.0	50	30	80	478-2515-1-ND	.33	.31	.24	1,000	128.00	VC08LC18A500DP
1206	18.0	14.0	50	30	200	478-2530-1-ND	.37	.35	.26	1,000	143.00	VC12LC18A500DP

*For Tape and Reel part number, change 1-ND to 2-ND.

MultiGuard Multilayer Ceramic Varistor TVS Arrays ESD Protection for CMOS and Bi-Polar Systems

AVX's TVS Arrays address many trends in today's electronic circuits: mandatory ESD protection, mandatory EMI control, signal integrity improvement, PCB downsizing, reduced component placement costs and protection from induced slow speed transient voltages and currents. MultiGuard products offer numerous advantages which include a faster turn-on time (<1nS), repetitive strike capability and space savings.

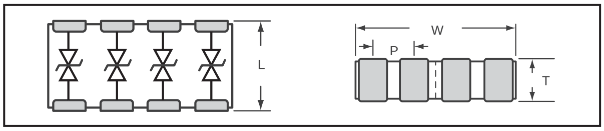

Size	L mm (inches)	W mm (inches)	T Max. mm (inches)	P mm (inches)
0612	1.60 (.063)	3.20 (.126)	1.22 (.048)	0.76 (.030)

Size	Working Voltage		Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pf)	Digi-Key Part No.	Price Each			Tape and Reel*		AVX Part No.
	DC	AC					1	10	100	Size	Pricing	
0612	5.6	4.0	8.5 ± 20%	30	825	478-2541-1-ND	1.68	1.57	1.18	1,000	649.00	MG064S05A150DP
	9.0	6.4	12.7 ± 15%	30	550	478-2481-1-ND	1.68	1.57	1.18	1,000	649.00	MG064S09A200DP
	14.0	10.0	19.5 ± 12%	30	425	478-2542-1-ND	1.68	1.57	1.18	1,000	649.00	MG064S14A300DP
	18.0	14.0	25.5 ± 10%	15	120	478-2543-1-ND	1.68	1.57	1.18	1,000	649.00	MG064S18A400DP
	≤18.0	≤14.0	N/A	20	75	478-2480-1-ND	1.60	1.49	1.12	1,000	617.00	MG064L18X500DP

*For Tape and Reel part number, change 1-ND to 2-ND.

Medium Power Multilayer Varistor TVS Surface Mount

ESD and EMI Protection Devices for Standard, Telecom and Automotive Applications

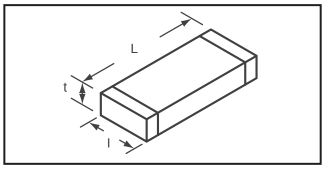

AVX's TVS devices address many trends in today's electronic circuits: ESD protection, EMI control, signal integrity improvement, PCB downsizing, reduced component placement costs and protection from induced slow speed transient voltages and currents.

Specifications: • Storage Temperature: -55°C ~ 125°C • Operating Temperature: -55°C ~ 125°C

Size	L mm (inches)	I mm (inches)	t Maximum mm (inches)
1210	3.20 (.126)	2.50 (.098)	1.70 (.067)
1812	4.50 (.177)	3.20 (.126)	1.70 (.067)
2220	5.70 (.224)	5.00 (.197)	1.70 (.067)

Standard Series

Size	Operating Voltage (Vdc)	Vnominal @ 1mA DC			Maximum Peak Current 8 x 20µs	Typical Capacitance @ 1Khz/.5Vrms (pf)	Digi-Key Part No.	Price Each			Tape and Reel*		AVX Part No.
		Minimum	Nominal	Maximum				1	10	100	Size	Pricing	
1210	18	21.5	24	26.5	500	3000	478-2536-1-ND	.83	.77	.59	2,000	320.00/M	VJ13MC0180KBA
	26	29.7	33	36.3	300	1120	478-2537-1-ND	.83	.77	.59	2,000	320.00/M	VJ13MC0260KBA
	30	35	39	43	220	1020	478-2538-1-ND	.83	.77	.59	2,000	320.00/M	VJ13MC0300KBA
	48	54.5	60.5	66.5	220	800	478-2539-1-ND	.83	.77	.59	2,000	320.00/M	VJ13MC0480KBA
	60	67	75	83	250	600	478-2540-1-ND	.83	.77	.59	2,000	320.00/M	VJ13MC0600KBA

Telecom Series

Size	Operating Voltage		Vclamp (8 x 20µs)		Max. Peak Current 8 x 20µs (A) 1 Surge	Typical Capacitance (pF)	Digi-Key Part No.	Price Each			Tape and Reel*		AVX Part No.
	Vrms	Vdc	Vp	Ip				1	10	100	Size	Pricing	
1812	60	85	200	45	400	400	478-2531-1-ND	1.05	.98	.74	1,250	405.00/M	VC14MT0600KBA
	95	125	270	45	250	250	478-2532-1-ND	1.05	.98	.74	1,000	405.00	VC14MT0950KBA

Automotive Series

Size	Operating Voltage		Vnominal @ 1mA DC			Max. Peak Current 8 x 20µs	Typical Capacitance (pF)	Digi-Key Part No.	Price Each			Tape and Reel*		AVX Part No.
	Vrms	Vdc	Minimum	Nominal	Maximum				1	10	100	Size	Pricing	
2220	14	16	22	24.5	27	1200	11000	478-2533-1-ND	1.23	1.14	.86	1,250	473.00/M	VC15MA0160KBA
	14	16	22	24.5	27	1200	16000	478-2535-1-ND	1.40	1.30	.98	1,250	540.00/M	VC15PA0160KBA
	30	34	42.3	47	51.7	1200	4000	478-2534-1-ND	1.23	1.14	.86	1,250	473.00/M	VC15MA0340KBA

*For Tape and Reel part number, change 1-ND to 2-ND.

TransFeed Multilayer Ceramic Varistor TVS TVS Protection and EMI Attenuation in a Single Chip

AVX has combined the best electrical characteristics of its TransGuard TVS and its Feedthru Capacitors into a single chip for state-of-the-art overvoltage circuit protection and EMI reduction over a broad range of frequencies. This unique combination of multilayer ceramic construction in a feedthru configuration gives the circuit designer a single 0805 chip that responds to transient events faster than any TVS device on the market today and provides significant EMI attenuation when in the off-state. **Typical Applications:** • Fingerprint ID Circuit • Magnetic Field Circuit • LCD Dashboard Driver

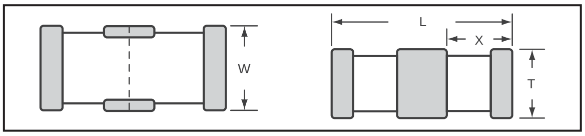

Size	L mm (inches)	W mm (inches)	T mm (inches)	X mm (inches)
0805	2.01 (.079)	1.25 (.049)	1.143 (.045)	1.02 (.040)

Size	Working Voltage		Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pf)	Digi-Key Part No.	Price Each			Tape & Reel*		AVX Part No.
	DC	AC					1	10	100	Size	Pricing	
0805	5.6	4.0	8.5 ± 20%	30	800	478-2544-1-ND	.48	.45	.34	1,000	185.00	V2F105A150Y2EDP
	5.6	4.0	8.5 ± 20%	120	2500	478-2482-1-ND	.72	.67	.51	1,000	277.00	V2F105C150Y1FDP
	14.0	10.0	18.5 ± 12%	30	300	478-2483-1-ND	.48	.45	.34	1,000	185.00	V2F114A300Y2EDP
	14.0	10.0	18.5 ± 12%	120	900	478-2484-1-ND	.72	.67	.51	1,000	277.00	V2F114C300Y1FDP
	18.0	13.0	25.5 ± 10%	30	200	478-2485-1-ND	.48	.45	.34	1,000	185.00	V2F118A400Y2EDP
	18.0	13.0	25.5 ± 10%	120	500	478-2486-1-ND	.72	.67	.51	1,000	277.00	V2F118C400Y1FDP

*For Tape and Reel part number, change 1-ND to 2-ND.

AVX TransGuard Multilayer Ceramic Varistor TVS Surface Mount

The AVX TransGuard Transient Voltage Suppressors (TVS) with unique high-energy multilayer construction represents state-of-the-art overvoltage circuit protection. Monolithic multilayer construction provides protection from voltage transients caused by ESD, lightning, NEMP, inductive switching etc.

Size	Length (L) mm (inches)	Width (W) mm (inches)	Maximum Thickness (T) mm (inches)
0402	1.00 (.040)	.50 (.020)	.60 (.024)
0603	1.60 (.063)	.80 (.031)	.90 (.035)
0805	2.01 (.079)	1.25 (.049)	1.02 (.040)
1206	3.20 (.126)	1.60 (.063)	1.02 (.040)
1210	3.20 (.126)	2.49 (.098)	1.70 (.067)

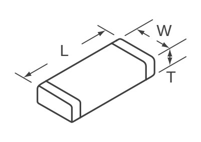

Size	Working Voltage		Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pf)	Digi-Key Part No.	Price Each			Tape and Reel*		AVX Part No.
	DC	AC					1	10	100	Size	Pricing	
0402	5.6	4.0	8.5 ± 20%	20	175	478-2545-1-ND	.32	.30	.23	10,000	122.00/M	VC040205X150WP
	14.0	10.0	18.5 ± 12%	20	100	478-2497-1-ND	.32	.30	.23	10,000	122.00/M	VC040214X300WP
	18.0	13.0	25.5 ± 10%	20	65	478-2546-1-ND	.32	.30	.23	10,000	122.00/M	VC040218X400WP
0603	3.3	2.3	5.0 ± 20%	30	1450	478-2498-1-ND	.39	.36	.27	1,000	149.00	VC060303A100DP
	14.0	10.0	18.5 ± 12%	30	350	478-2499-1-ND	.39	.36	.27	1,000	149.00	VC060314A300DP
	18.0	13.0	25.5 ± 10%	30	150	478-2500-1-ND	.39	.36	.27	1,000	149.00	VC060318A400DP
	26.0	18.0	34.5 ± 10%	30	155	478-2501-1-ND	.39	.36	.27	1,000	149.00	VC060326A580DP
	30.0	21.0	41 ± 10%	30	125	478-2502-1-ND	.39	.36	.27	1,000	149.00	VC060330A650DP
0805	3.3	2.3	5.0 ± 20%	40	1400	478-2504-1-ND	.42	.39	.30	1,000	162.00	VC080503A100DP
	3.3	2.3	5.0 ± 20%	120	5000	478-2505-1-ND	.61	.57	.43	1,000	236.00	VC080503C100DP
	5.6	4.0	8.5 ± 20%	40	1100	478-2506-1-ND	.39	.36	.27	1,000	149.00	VC080505A150DP
	5.6	4.0	8.5 ± 20%	120	3000	478-2507-1-ND	.46	.43	.32	1,000	176.00	VC080505C150DP
	12.0	8.5	16 ± 15%	40	525	478-2508-1-ND	.39	.36	.27	1,000	149.00	VC080512A250DP
0805	14.0	10.0	18.5 ± 12%	40	325	478-2509-1-ND	.39	.36	.27	1,000	149.00	VC080514A300DP
	14.0	10.0	18.5 ± 12%	120	900	478-2510-1-ND	.46	.43	.32	1,000	176.00	VC080514C300DP
	18.0	13.0	25.5 ± 10%	30	225	478-2511-1-ND	.39	.36	.27	1,000	149.00	VC080518A400DP
	18.0	13.0	25.5 ± 10%	100	550	478-2512-1-ND	.46	.43	.32	1,000	176.00	VC080518C400DP
	26.0	18.0	34.5 ± 10%	30	120	478-2513-1-ND	.40	.38	.29	1,000	155.00	VC080526A580DP
	26.0	18.0	34.5 ± 10%	100	250	478-2514-1-ND	.46	.43	.32	1,000	176.00	VC080526C580DP
1206	5.6	4.0	8.5 ± 20%	40	1200	478-2516-1-ND	.53	.49	.37	1,000	203.00	VC120605A150DP
	5.6	4.0	8.5 ± 20%	150	3000	478-2517-1-ND	.70	.65	.49	1,000	270.00	VC120605D150DP
	14.0	10.0	18.5 ± 12%	40	600	478-2518-1-ND	.53	.49	.37	1,000	203.00	VC120614A300DP
	14.0	10.0	18.5 ± 12%	150	1050	478-2519-1-ND	.70	.65	.49	1,000	270.00	VC120614D300DP
	18.0	13.0	25.5 ± 10%	30	350	478-2520-1-ND	.53	.49	.37	1,000	203.00	VC120618A400DP
1206	18.0	13.0	25.5 ± 10%	150	900	478-2521-1-ND	.70	.65	.49	1,000	270.00	VC120618D400DP
	26.0	18.0	34.5 ± 10%	120	500	478-2522-1-ND	.70	.65	.49	1,000	270.00	VC120626D580DP
	30.0	21.0	41 ± 10%	120	400	478-2523-1-ND	.70	.65	.49	1,000	270.00	VC120630D650DP
	48.0	34.0	62 ± 10%	100	225	478-2524-1-ND	.70	.65	.49	1,000	270.00	VC120648D101DP
1210	18.0	13.0	25.5 ± 10%	500	3100	478-2525-1-ND	1.09	1.01	.76	1,000	419.00	VC121018J390DP
	26.0	18.0	34.5 ± 10%	300	2150	478-2526-1-ND	.95	.88	.67	1,000	365.00	VC121026H560DP
	30.0	21.0	39.0 ± 10%	280	1975	478-2527-1-ND	.95	.88	.67	1,000	365.00	VC121030H620DP
	48.0	34.0	62 ± 10%	250	500	478-2528-1-ND	.95	.88	.67	1,000	365.00	VC121048H101DP
	60.0	42.0	76 ± 10%	250	400	478-2529-1-ND	.95	.88	.67	1,000	365.00	VC121060J121DP

*For Tape and Reel part number, change 1-ND to 2-ND.

TransGuard Multilayer Ceramic Varistor TVS Axial Lead

The AVX TransGuard Transient Voltage Suppressors (TVS) with unique high-energy multilayer construction represents state-of-the-art overvoltage circuit protection.

Monolithic multilayer construction provides protection from voltage transients caused by ESD, lightning, NEMP, inductive switching etc.

Size	Maximum Length (L) mm (inches)	Maximum Diameter (D) mm (inches)
1000	4.32 (.170)	2.54 (.100)
2000	4.83 (.190)	3.56 (.140)

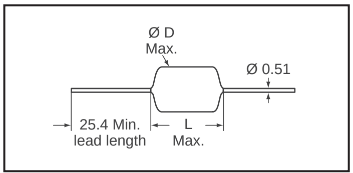

Size	Working Voltage		Break-down Voltage	Peak Current Rating (A)	Typical Capacitance (pf)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel*		AVX Part No.
	DC	AC					1	10	100	Size	Pricing	
1000	5.6	4.0	8.5 ±20%	40	1000	478-2487-1-ND	.36	.32	.29	1,000	216.00	VA100005A150DL
	5.6	4.0	8.5 ± 20%	150	2800	478-2488-1-ND	.41	.36	.33	1,000	243.00	VA100005D150DL
	14.0	10.0	18.5 ± 12%	40	325	478-2489-1-ND	.36	.32	.29	1,000	216.00	VA100014A300DL
	14.0	10.0	18.5 ± 12%	150	1100	478-2490-1-ND	.41	.36	.33	1,000	243.00	VA100014D300DL
	18.0	13.0	25.5 ± 10%	40	350	478-2491-1-ND	.36	.32	.29	1,000	216.00	VA100018A400DL
	18.0	13.0	25.5 ± 10%	150	900	478-2492-1-ND	.41	.36	.33	1,000	243.00	VA100018D400DL
	26.0	18.0	34.5 ± 10%	120	650	478-2493-1-ND	.41	.36	.33	1,000	243.00	VA100026D580DL
	30.0	21.0	41.0 ±10%	120	550	478-2494-1-ND	.41	.36	.33	1,000	243.00	VA100030D650DL
	48.0	34.0	62.0 ± 10%	100	200	478-2495-1-ND	.41	.36	.33	1,000	243.00	VA100048D101DL
2000	60.0	42.0	76.0 ± 10%	300	400	478-2496-1-ND	.56	.50	.45	1,000	338.00	VA200060K121DL

*For Tape and Reel part number, change 1-ND to 2-ND.

ROHM ESD Protection Diodes

Fig. 1

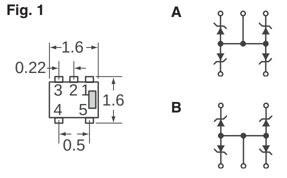

Fig. 2

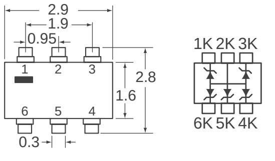

Fig. 3

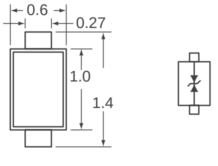

Fig. 4

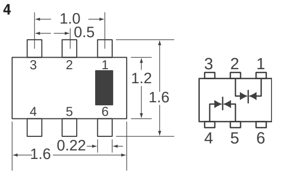

Fig.	Zener Voltage Vz (V) (Maximum)	Reverse Current IR (µA) (Maximum)	Forward Voltage VF (V) (Maximum)	Junction Capacitance Ct (pF) (Typical)	Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Rohm Part No.
							1	25	100		Size	Pricing	
1A	7.20	1.0	1.0	35	SC-75A	RSA6.1J4T2RCT-ND	.44	.34	.25	RSA6.1J4T2RTR-ND	8,000	107.00/M	RSA6.1J4T2R
1B	7.20	1.0	1.25	90	SOT-353	RSA6.1ENCT-ND	.46	.36	.26	RSA6.1ENTR-ND	3,000	121.00/M	RSA6.1ENTR
2	7.20	1.0	1.25	90	SMD6	RSA6.1U5T108CT-ND	.44	.34	.25	RSA6.1U5T108TR-ND	3,000	114.00/M	RSA6.1U5T108
3	7.82	0.5	—	15	VMD2	RSB6.8GT2RCT-ND	.44	.34	.25	RSB6.8GT2RTR-ND	8,000	107.00/M	RSB6.8GT2R
3	7.82	0.5	—	30	SOD-523	RSB6.8STE61CT-ND	.46	.36	.26	RSB6.8STE61TR-ND	3,000	121.00/M	RSB6.8STE61
4	14.4	0.1	—	1	EMD6	RSB12JS2T2RCT-ND	.55	.43	.31	RSB12JS2T2RTR-ND	8,000	136.00/M	RSB12JS2T2R

Microsemi Transient Voltage Suppressor Arrays

SO-8 Package

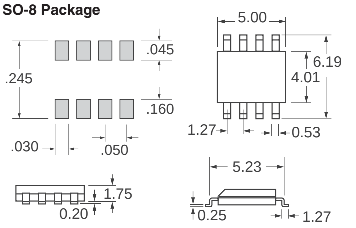

SO-16 Package

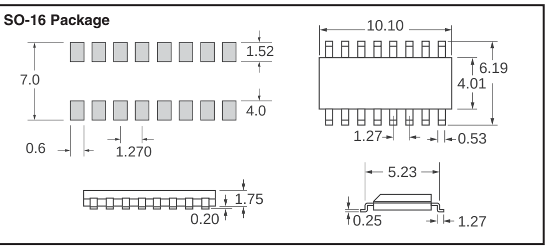

Fig.	Stand-off Voltage Vwm (V) Maximum	Breakdown Voltage V_{BR} @V_{BR} = 1mA (V) Minimum	Clamping Voltage V_C @1 Amp (V) Maximum	Leakage Current I_D @ V_{WM} (µAmps) Maximum	Capacitance (f-1 MHz) @ 0 V C (pf) Typical	Temp. Coefficient of V_{BR} aV_{BR} mV/°C Maximum	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel		Microsemi Part No.
								1	10	100	Size	Pricing‡	
SMDA Unidirectional and SMDAxxC Bidirectional Series — 300 Watt													
1	3.3	4	6.5	125	800	-3	SMDA03MSCT-ND	3.43	3.09	2.58	—	—	SMDA03
	5	6	9.8	100	600	3	SMDA05MSCT-ND	3.43	3.09	2.58	2,500	1139.82/M	SMDA05
	15	16.7	24	1	140	13	SMDA15MSCT-ND	3.43	3.09	2.58	2,500	1139.82/M	SMDA15
	24	26.7	43	1	90	30 Typical	SMDA24E3-ND†	4.32	3.89	3.24	—	—	SMDA24E3
	5	6	9.8	100	300	1	SMDA05CMSCT-ND	3.75	3.38	2.82	2,500	1246.22/M	SMDA05C
	15	16.7	24	1	70	11	SMDA15CMSCT-ND	3.75	3.38	2.82	2,500	1246.22/M	SMDA15C
SMDB Unidirectional and SMDBxxC Bidirectional Series — 500 Watt													
1	15	16.7	24	2	140	13	SMDB15MSCT-ND	4.32	3.89	3.24	—	—	SMDB15
	24	26.7	43	2	90	30	SMDB24MSCT-ND	4.32	3.89	3.24	—	—	SMDB24
	12	13.3	17.5	1	95	8	SMDB12CMSCT-ND	4.28	3.86	3.22	2,500	1424.44/M	SMDB12C
SMDAxxC-5 Series, Bidirectional — 300 Watt													
2	3.3	4	6.5	200	300	-5	SMDA03C-5MSCT-ND	4.24	3.82	3.18	—	—	SMDA03C-5
SMDAxx-6 Series, Unidirectional — 300 Watt													
3	3.3	4	6.5	200	800	-3	SMDA03-6MSCT-ND	3.78	3.41	2.84	2,500	1258.18/M	SMDA03-6
	5	6	9.8	100	550	3	SMDA05-6MSCT-ND	3.78	3.41	2.84	2,500	1258.18/M	SMDA05-6
SMDAxxC-7 Series, Bidirectional — 300 Watt													
4	3.3	4.5	7	200	300	-5	SMDA03C-7MSCT-ND	4.32	3.89	3.24	—	—	SMDA03C-7
	12	13.3	19	1	75	8	SMDA12C-7MSCT-ND	3.86	3.47	2.90	2,500	1282.12/M	SMDA12C-7
SM8LCxx Series, Bidirectional — 500 Watt													
5	3.3	4	6.5	200	25	-3	SM8LC03MSCT-ND	3.86	3.47	2.90	2,500	1282.12/M	SM8LC03
	5	6	9.8	125	25	3	SM8LC05MSCT-ND	3.86	3.47	2.90	2,500	1282.12/M	SM8LC05
SM16 Unidirectional and SM16xxC Bidirectional Series — 300 Watt													
6	15	16.7	24	1	400	13	SM1615E3-ND†	5.68	5.12	4.26	—	—	SM1615E3
	3.3	4	7	200	425	-5	SM1603CMSCT-ND	6.00	5.40	4.50	—	—	SM1603C
SM16LCxx Unidirectional and SM16LCxxC Bidirectional Series — 300 Watt													
7	5	6	9.8	20	25	1	SM16LC05E3-ND†	7.40	6.66	5.55	—	—	SM16LC05E3
	12	13.3	19.5	2	25	8	SM16LC12CMSCT-ND	5.64	5.08	4.24	2,500	3527.50/M	SM16LC12C
	24	26.7	43	2	25	28	SM16LC24CMSCT-ND	7.68	6.92	5.76	—	—	SM16LC24C
SMBJ Unidirectional and SMBJxxC Bidirectional Series — 600 Watt													
8	6.5	7.22*	11.2	500	—	—	SMBJ6.5AMSCT-ND	.74	.67	.56	2,500	735.00/M	SMBJ6.5A-TRE3
	15	16.7	24.4	1	—	—	SMBJ15CAMSCT-ND	.72	.65	.54	2,500	882.50/M	SMBJ15CA-TRE3
	24	26.7	38.9	1	—	—	SMBJ24CAMSCT-ND	.72	.65	.54	2,500	882.50/M	SMBJ24CA-TRE3
SMCJ Series, Unidirectional — 1500 Watt													
9	30	33.3	48.4	1	—	—	SMCJ30AE3CT-ND	1.12	1.01	.84	—	—	SMCJ30AE3
SM Series, Unidirectional/Bidirectional — 300 Watt													
10	5	6	9.8	20	400 Max.	—	SM05E3CT-ND	.68	.62	.51	3,000	425.00/M	SM05E3
UPT Unidirectional and UPTB Bidirectional Series — 2.5 Watt													
11	5	6	9.5§	50	—	.03	UPT5E3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT5E3/TR7
	8	9	13.7§	2	—	.04	UPT8E3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT8E3/TR7
	10	11	18§	2	—	.045	UPT10E3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT10E3/TR7
	12	13.8	21.6§	1	—	.05	UPT12E3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT12E3/TR7
	15	16.7	26§	1	—	.055	UPT15E3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT15E3/TR7
	17	19	29.2§	1	—	.06	UPT17E3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT17E3/TR7
	24	28.4	43.2§	1	—	.07	UPT24E3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT24E3/TR7
	33	36.8	56.7§	1	—	.08	UPT33E3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT33E3/TR7
	48	54	84.3§	1	—	.09	UPT48E3CT-ND	1.32	1.19	.99	3,000	825.00/M	UPT48E3/TR7
	5	6	9.5§	50	—	.03	UPTB5E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB5E3/TR7
	8	9	13.7§	2	—	.04	UPTB8E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB8E3/TR7
	10	11	18§	2	—	.045	UPTB10E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB10E3/TR7
	12	13.8	21.6§	1	—	.05	UPTB12E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB12E3/TR7
	15	16.7	26§	1	—	.055	UPTB15E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB15E3/TR7
	17	19	29.2§	1	—	.06	UPTB17E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB17E3/TR7
	24	28.4	43.2§	1	—	.07	UPTB24E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB24E3/TR7
	33	36.8	56.7§	1	—	.08	UPTB33E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB33E3/TR7
	48	54	84.3§	1	—	.09	UPTB48E3CT-ND	1.72	1.55	1.29	3,000	1075.00/M	UPTB48E3/TR7

‡ For Tape and Reel Part Number, change CT-ND to TR-ND. † Tube packaging * @10mA § @10A

Fig. 1 – SO-8

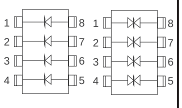

Unidirectional Bidirectional

Fig. 2 – SO-8

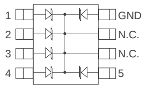

Fig. 3 – SO-8

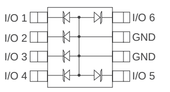

Fig. 4 – SO-8

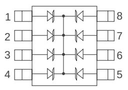

Fig. 5 – SO-8

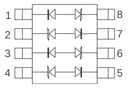

Fig. 6 – SO-16

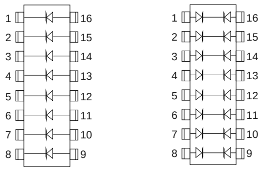

Unidirectional Bidirectional

Fig. 7 – SO-16

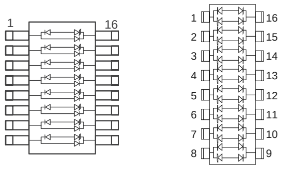

Unidirectional Bidirectional

Fig. 8 — DO214AA

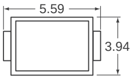

Fig. 9 — DO214AB

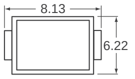

Fig. 10 — SOT-23

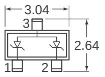

Fig. 11 — POWERMITE

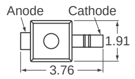

DIODES INCORPORATED Transient Voltage Suppressors

Applications: These TVS devices afford the circuit designer an economic means to protect voltage sensitive circuit components from the destructive effects of applied transient voltages, featuring virtually instantaneous response times of one picosecond. **Features:** • Fast Response Time: One picosecond • Glass Passivated Die Construction **Mechanical Data:** • **Case:** Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0 • **Leads:** Solderable per MIL-STD-202, Method 208 • **Soldering Temperature:** 260°C maximum, 3/8" (9.53mm) from body, 10 seconds • **Marking:** Type number and cathode band

225 Watts

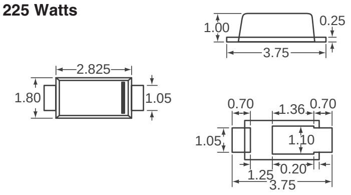

Maximum Ratings: • Peak Pulse Power Dissipation 10/1000μs @ 25°C: 225W • Steady State Power Dissipation: 1.0W • Forward Surge Current, 8.3ms @ 25°C: 50A • Uni-directional • Storage and Operating Temperature: -65°C ~ 150°C

500 Watts and 600 Watts

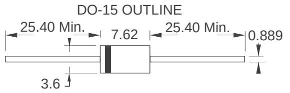

Maximum Ratings: • Peak Pulse Power Dissipation @ 25°C: 500W and 600W • Steady State Power Dissipation @ 75°C lead temperature, 3/8" (9.53mm) from body: 2.5W • Clamping Time (0V~BV min.): Uni-directional: < 1x10^{-12} seconds; Bi-directional: < 5x10^{-9} seconds • Storage and Operating Temperature: -65°C ~ 175°C

1500 Watts

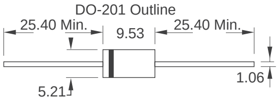

Maximum Ratings: • Peak Pulse Power Dissipation @ 25°C: 1500W • Steady State Power Dissipation @ 75°C lead temperature, 3/8" (9.53mm) from body: 5W • Forward Surge Current, 50ms @ 25°C: 200A • Clamping Time (0V~BV min.): Uni-directional: < 1x10^{-12} seconds; Bi-directional: < 5x10^{-9} seconds • Storage and Operating Temperature: -55°C ~ 175°C

Breakdown Voltage VBR @ I_T			I_T (mADC)	Rated Standoff Voltage (Vwm)	Reverse DC Leakage Current @ Vwm (μA)	Digi-Key Part No.	Cut Tape Pricing			Digi- Key Part No.	Tape & Reel		Diodes Part No.
Min.	Nom.	Max.					1	10	100		Size	Pricing	
225 Watts, Uni-Directional (PowerDI123), RoHS Compliant													
6.4	—	7.00	10	5.0	400	DFLT5V0ADICT-ND	1.08	8.64	64.80	DFLT5V0ADITR-ND	3,000	342.00/M	DFLT5V0A-7
6.67	—	7.37	10	6.0	400	DFLT6V0ADICT-ND	1.08	8.64	64.80	DFLT6V0ADITR-ND	3,000	342.00/M	DFLT6V0A-7
7.22	—	7.98	10	6.5	250	DFLT6V5ADICT-ND	1.08	8.64	64.80	DFLT6V5ADITR-ND	3,000	342.00/M	DFLT6V5A-7
8.33	—	9.21	1.0	7.5	50	DFLT7V5ADICT-ND	1.08	8.64	64.80	DFLT7V5ADITR-ND	3,000	342.00/M	DFLT7V5A-7
8.89	—	9.83	1.0	8.0	25	DFLT8V0ADICT-ND	1.08	8.64	64.80	DFLT8V0ADITR-ND	3,000	342.00/M	DFLT8V0A-7
11.1	—	12.3	1.0	10	2.5	DFLT10ADICT-ND	1.08	8.64	64.80	DFLT10ADITR-ND	3,000	342.00/M	DFLT10A-7
12.2	—	13.5	1.0	11	2.5	DFLT11ADICT-ND	1.08	8.64	64.80	DFLT11ADITR-ND	3,000	342.00/M	DFLT11A-7
13.3	—	14.7	1.0	12	2.5	DFLT12ADICT-ND	1.08	8.64	64.80	DFLT12ADITR-ND	3,000	342.00/M	DFLT12A-7
14.4	—	15.9	1.0	13	1.0	DFLT13ADICT-ND	1.08	8.64	64.80	DFLT13ADITR-ND	3,000	342.00/M	DFLT13A-7
16.7	—	18.5	1.0	15	1.0	DFLT15ADICT-ND	1.08	8.64	64.80	DFLT15ADITR-ND	3,000	342.00/M	DFLT15A-7
18.9	—	20.9	1.0	17	1.0	DFLT17ADICT-ND	.81	6.48	48.60	DFLT17ADITR-ND	3,000	257.00/M	DFLT17A-7
20.0	—	22.1	1.0	18	1.0	DFLT18ADICT-ND	1.08	8.64	64.80	DFLT18ADITR-ND	3,000	342.00/M	DFLT18A-7
26.7	—	29.5	1.0	24	1.0	DFLT24ADICT-ND	1.08	8.64	64.80	DFLT24ADITR-ND	3,000	342.00/M	DFLT24A-7
30	—	33.15	1.0	27	1.0	DFLT27ADICT-ND	1.08	8.64	64.80	DFLT27ADITR-ND	3,000	342.00/M	DFLT27A-7
44.4	—	49.1	1.0	40	1.0	DFLT40ADICT-ND	1.08	8.64	64.80	DFLT40ADITR-ND	3,000	342.00/M	DFLT40A-7
56.7	—	62.7	1.0	51	1.0	DFLT51ADICT-ND	1.08	8.64	64.80	DFLT51ADITR-ND	3,000	342.00/M	DFLT51A-7
500 Watts, Uni-Directional (DO-15)													
6.4	—	7.00	10	5.0	600	SA5V0A-FDICT-ND◊	.47	3.72	27.90	SA5V0A-FDITR-ND◊	4,000	140.00/M	SA5V0A-T-F
6.67	—	7.37	10	6.0	600	SA6V0ADICT-ND	.47	3.72	27.90	—	—	—	SA6V0ADI
6.67	—	7.37	10	6.0	600	SA6V0A-FDICT-ND◊	.47	3.72	27.90	SA6V0A-FDITR-ND◊	4,000	140.00/M	SA6V0A-T-F
7.22	—	7.98	10	6.5	400	SA6V5ADICT-ND	.47	3.72	27.90	SA6V5ADITR-ND	4,000	140.00/M	SA6.5ADI
11.1	—	12.3	1	10	3	SA10ADICT-ND	.47	3.72	27.90	SA10ADITR-ND	4,000	140.00/M	SA10ADI
13.3	—	14.7	1	12	3	SA12ADICT-ND	.47	3.72	27.90	SA12ADITR-ND	4,000	140.00/M	SA12ADI
16.7	—	18.5	1	15	3	SA15ADICT-ND	.47	3.72	27.90	SA15ADITR-ND	4,000	140.00/M	SA15ADI
22.2	—	24.5	1	20	3	SA20ADICT-ND	.47	3.72	27.90	SA20ADITR-ND	4,000	140.00/M	SA20ADI
33.3	—	36.8	1	30	3	SA30ADICT-ND	.47	3.72	27.90	SA30ADITR-ND	4,000	140.00/M	SA30ADI
500 Watts, Bi-Directional (DO-15)													
6.67	—	7.37	10	6.0	600	SA6V0CADICT-ND	.56	4.44	33.30	SA6V0CADITR-ND	4,000	167.00/M	SA6.0CADI
7.22	—	7.98	10	6.5	400	SA6V5CADICT-ND	.56	4.44	33.30	SA6V5CADITR-ND	4,000	167.00/M	SA6.5CADI
11.1	—	12.3	1	10	3	SA10CADICT-ND	.56	4.44	33.30	SA10CADITR-ND	4,000	167.00/M	SA10CADI
13.3	—	14.7	1	12	3	SA12CADICT-ND	.56	4.44	33.30	SA12CADITR-ND	4,000	167.00/M	SA12CADI
16.7	—	18.5	1	15	3	SA15CADICT-ND	.56	4.44	33.30	SA15CADITR-ND	4,000	167.00/M	SA15CADI
22.2	—	24.5	1	20	3	SA20CADICT-ND	.56	4.44	33.30	SA20CADITR-ND	4,000	167.00/M	SA20CADI
33.3	—	36.8	1	30	3	SA30CADICT-ND	.56	4.44	33.30	SA30CADITR-ND	4,000	167.00/M	SA30CADI
600 Watts, Uni-Directional (DO-15)													
6.45	6.8	7.14	10	5.8	1000	P6KE6.8ADICT-ND	.47	3.72	27.90	P6KE6.8ADITR-ND	4,000	140.00/M	P6KE6.8A
6.45	6.8	7.14	10	5.8	1000	P6KE6.8A-FDICT-ND◊	.47	3.72	27.90	P6KE6.8A-FDITR-ND◊	4,000	140.00/M	P6KE6.8A-T-F
7.13	7.5	7.88	10	6.4	500	P6KE7.5ADICT-ND	.47	3.72	27.90	P6KE7.5ADITR-ND	4,000	140.00/M	P6KE7.5A
7.79	8.2	8.61	10	7.02	200	P6KE8.2ADICT-ND	.47	3.72	27.90	P6KE8.2ADITR-ND	4,000	140.00/M	P6KE8.2A
9.5	10.0	10.5	1	8.55	10	P6KE10ADICT-ND	.47	3.72	27.90	P6KE10ADITR-ND	4,000	140.00/M	P6KE10A
11.4	12.0	12.6	1	10.2	5	P6KE12ADICT-ND	.47	3.72	27.90	P6KE12ADITR-ND	4,000	140.00/M	P6KE12A
14.3	15.0	15.8	1	12.8	5	P6KE15ADICT-ND	.47	3.72	27.90	P6KE15ADITR-ND	4,000	140.00/M	P6KE15A
19.0	20.0	21.0	1	17.1	5	P6KE20ADICT-ND	.47	3.72	27.90	P6KE20ADITR-ND	4,000	140.00/M	P6KE20A
22.8	24.0	25.2	1	20.5	5	P6KE24ADICT-ND	.47	3.72	27.90	P6KE24ADITR-ND	4,000	140.00/M	P6KE24A
25.7	27.0	28.4	1	23.1	5	P6KE27ADICT-ND	.47	3.72	27.90	P6KE27ADITR-ND	4,000	140.00/M	P6KE27A
28.5	30.0	31.5	1	25.5	5	P6KE30ADICT-ND	.47	3.72	27.90	P6KE30ADITR-ND	4,000	140.00/M	P6KE30A
31.4	33.0	34.7	1	28.2	5	P6KE33ADICT-ND	.47	3.72	27.90	P6KE33ADITR-ND	4,000	140.00/M	P6KE33A
48.5	51.0	53.6	1	43.6	5	P6KE51ADICT-ND	.47	3.72	27.90	P6KE51ADITR-ND	4,000	140.00/M	P6KE51A
64.6	68.0	71.4	1	58.1	5	P6KE68ADICT-ND	.47	3.72	27.90	P6KE68ADITR-ND	4,000	140.00/M	P6KE68A
600 Watts, Bi-Directional (DO-15)													
6.45	6.8	7.14	10	5.8	1000	P6KE6.8CADICT-ND	.56	4.44	33.30	P6KE6.8CADITR-ND	4,000	167.00/M	P6KE6.8CA
7.13	7.5	7.88	10	6.4	500	P6KE7.5CADICT-ND	.56	4.44	33.30	P6KE7.5CADITR-ND	4,000	167.00/M	P6KE7.5CA
7.79	8.2	8.61	10	7.02	200	P6KE8.2CADICT-ND	.56	4.44	33.30	P6KE8.2CADITR-ND	4,000	167.00/M	P6KE8.2CA
9.5	10.0	10.5	1	8.55	10	P6KE10CADICT-ND	.56	4.44	33.30	P6KE10CADITR-ND	4,000	167.00/M	P6KE10CA
11.4	12.0	12.6	1	10.2	5	P6KE12CADICT-ND	.56	4.44	33.30	P6KE12CADITR-ND	4,000	167.00/M	P6KE12CA
14.3	15.0	15.8	1	12.8	5	P6KE15CADICT-ND	.56	4.44	33.30	P6KE15CADITR-ND	4,000	167.00/M	P6KE15CA
19.0	20.0	21.0	1	17.1	5	P6KE20CADICT-ND	.56	4.44	33.30	P6KE20CADITR-ND	4,000	167.00/M	P6KE20CA
22.8	24.0	25.2	1	20.5	5	P6KE24CADICT-ND	.56	4.44	33.30	P6KE24CADITR-ND	4,000	167.00/M	P6KE24CA
25.7	27.0	28.4	1	23.1	5	P6KE27CADICT-ND	.56	4.44	33.30	P6KE27CADITR-ND	4,000	167.00/M	P6KE27CA
28.5	30.0	31.5	1	25.5	5	P6KE30CADICT-ND	.56	4.44	33.30	P6KE30CADITR-ND	4,000	167.00/M	P6KE30CA
31.4	33.0	34.7	1	28.2	5	P6KE33CADICT-ND	.56	4.44	33.30	P6KE33CADITR-ND	4,000	167.00/M	P6KE33CA
48.5	51.0	53.6	1	43.6	5	P6KE51CADICT-ND	.56	4.44	33.30	P6KE51CADITR-ND	4,000	167.00/M	P6KE51CA
64.6	68.0	71.4	1	58.1	5	P6KE68CADICT-ND	.56	4.44	33.30	P6KE68CADITR-ND	4,000	167.00/M	P6KE68CA
95.0	100.0	105.0	1	85.5	5	P6KE100CADICT-ND	.56	4.44	33.30	P6KE100CADITR-ND	4,000	167.00/M	P6KE100CA
143.0	150.0	158.0	1	128.0	5	P6KE150CADICT-ND	.56	4.44	33.30	P6KE150CADITR-ND	4,000	167.00/M	P6KE150CA
1500 Watts, Uni-Directional (DO-201)													
6.45	6.8	7.14	10	5.8	1000	1.5KE6.8ADICT-ND	.69	5.54	41.52	1.5KE6.8ADITR-ND	1,000	251.00	1.5KE6.8A
7.13	7.5	7.88	10	6.4	500	1.5KE7.5ADICT-ND	.69	5.54	41.52	1.5KE7.5ADITR-ND	1,000	251.00	1.5KE7.5A
7.79	8.2	8.61	10	7.02	200	1.5KE8.2ADICT-ND	.69	5.54	41.52	1.5KE8.2ADITR-ND	1,000	251.00	1.5KE8.2A
9.5	10.0	10.5	1	8.55	10	1.5KE10ADICT-ND	.69	5.54	41.52	1.5KE10ADITR-ND	1,000	251.00	1.5KE10A
11.4	12.0	12.6	1	10.2	5	1.5KE12ADICT-ND	.69	5.54	41.52	1.5KE12ADITR-ND	1,000	251.00	1.5KE12A

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(Continued)

Breakdown Voltage VBR @ IT Min.	Nom.	Max.	IT (mADC)	Rated Standoff Voltage (Vwm)	Reverse DC Leakage Current @ Vwm (µA)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Diodes Part No.
14.3	15.0	15.8	1	12.8	5	1.5KE15ADICT-ND	.69	5.54	41.52	1.5KE15ADITR-ND	1,000	251.00	1.5KE15A
19.0	20.0	21.0	1	17.1	5	1.5KE20ADICT-ND	.69	5.54	41.52	1.5KE20ADITR-ND	1,000	251.00	1.5KE20A
22.8	24.0	25.2	1	20.5	5	1.5KE24ADICT-ND	.69	5.54	41.52	1.5KE24ADITR-ND	1,000	251.00	1.5KE24A
25.7	27.0	28.4	1	23.1	5	1.5KE27ADICT-ND	.69	5.54	41.52	1.5KE27ADITR-ND	1,000	251.00	1.5KE27A
28.5	30.0	31.5	1	25.5	5	1.5KE30 ADICT-ND	.69	5.54	41.52	1.5KE30ADITR-ND	1,000	251.00	1.5KE30A
31.4	33.0	34.7	1	28.2	5	1.5KE33ADICT-ND	.69	5.54	41.52	1.5KE33ADITR-ND	1,000	251.00	1.5KE33A
48.5	51.0	53.6	1	43.6	5	1.5KE51ADICT-ND	.69	5.54	41.52	1.5KE51ADITR-ND	1,000	251.00	1.5KE51A
64.6	68.0	71.4	1	58.1	5	1.5KE68ADICT-ND	.69	5.54	41.52	1.5KE68ADITR-ND	1,000	251.00	1.5KE68A
1500 Watts, Bi-Directional (DO-201)													
6.45	6.8	7.14	10	5.8	1000	1.5KE6.8CADICT-ND	.74	5.95	44.64	1.5KE6.8CADITR-ND	1,000	270.00	1.5KE6.8CA
7.13	7.5	7.88	10	6.4	500	1.5KE7.5CADICT-ND	.74	5.95	44.64	1.5KE7.5CADITR-ND	1,000	270.00	1.5KE7.5CA
7.79	8.2	8.61	10	7.02	200	1.5KE8.2CADICT-ND	.74	5.95	44.64	1.5KE8.2CADITR-ND	1,000	270.00	1.5KE8.2CA
9.5	10.0	10.5	1	8.55	10	1.5KE10CADICT-ND	.74	5.95	44.64	1.5KE10CADITR-ND	1,000	270.00	1.5KE10CA
11.4	12.0	12.6	1	10.2	5	1.5KE12CADICT-ND	.74	5.95	44.64	1.5KE12CADITR-ND	1,000	270.00	1.5KE12CA
14.3	15.0	15.8	1	12.8	5	1.5KE15CADICT-ND	.74	5.95	44.64	—	—	—	1.5KE15CA
14.3	15.0	15.8	1	12.8	5	1.5KE15CA-FDICT-ND◊	.84	6.70	50.22	1.5KE15CA-FDITR-ND◊	1,000	288.00	1.5KE15CA-T-F
19.0	20.0	21.0	1	17.1	5	1.5KE20CADICT-ND	.74	5.95	44.64	1.5KE20CADITR-ND	1,000	270.00	1.5KE20CA
22.8	24.0	25.2	1	20.5	5	1.5KE24CADICT-ND	.74	5.95	44.64	1.5KE24CADITR-ND	1,000	270.00	1.5KE24CA
25.7	27.0	28.4	1	23.1	5	1.5KE27CADICT-ND	.74	5.95	44.64	1.5KE27CADITR-ND	1,000	270.00	1.5KE27CA
28.5	30.0	31.5	1	25.5	5	1.5KE30CADICT-ND	.74	5.95	44.64	1.5KE30CADITR-ND	1,000	270.00	1.5KE30CA
31.4	33.0	34.7	1	28.2	5	1.5KE33CADICT-ND	.74	5.95	44.64	1.5KE33CADITR-ND	1,000	270.00	1.5KE33CA
48.5	51.0	53.6	1	43.6	5	1.5KE51CADICT-ND	.74	5.95	44.64	1.5KE51CADITR-ND	1,000	270.00	1.5KE51CA
64.6	68.0	71.4	1	58.1	5	1.5KE68CADICT-ND	.74	5.95	44.64	1.5KE68CADITR-ND	1,000	270.00	1.5KE68CA
95.0	100.0	105.0	1	85.5	5	1.5KE100CADICT-ND	.74	5.95	44.64	1.5KE100CADITR-ND	1,000	270.00	1.5KE100CA
143.0	150.0	158.0	1	128.0	5	1.5KE150CADICT-ND	.74	5.95	44.64	1.5KE150CADITR-ND	1,000	270.00	1.5KE150CA

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SMB Bi-Directional Thyristor Surge Protection Device

Features: • 58V - 320V Stand-Off Voltages • Oxide-Glass Passivated Junction • Bi-directional protection in a single device • High Off-State Impedance and Low On-State Voltage **Mechanical Data: • Case:** SMB, Molded plastic **• Case Material:** UL Flammability Classification Rating 94V-0

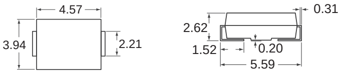

Non-Repetitive Peak Impulse Current (A) 10/1000µs	Rated Repetitive Off-State Volt. VDRM (V)	Off-State Leakage Current @ VDRM IDRM (µA)	Breakover Voltage VBO (V)	Holding Current IH (mA) Min.	Max.	Off-State Capac-itance Co (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000	Diodes Part No.
30	58	5	77	150	800	100	TB0640LDICT-ND	1.05	.91	.70	—	—	TB0640L-13
	58	5	77	150	800	100	TB0640L-FDICT-ND◊	1.05	.91	.70	TB0640L-FDITR-ND◊	372.00/M	TB0640L-13-F
	65	5	88	150	800	100	TB0720LDICT-ND	1.05	.91	.70	TB0720LDITR-ND	372.00/M	TB0720L-13
	65	5	88	150	800	100	TB0720L-FDICT-ND◊	1.05	.91	.70	TB0720L-FDITR-ND◊	372.00/M	TB0720L-13-F
	75	5	98	150	800	100	TB0900LDICT-ND	1.05	.91	.70	TB0900LDITR-ND	372.00/M	TB0900L-13
	75	5	98	150	800	100	TB0900L-FDICT-ND◊	1.05	.91	.70	TB0900L-FDITR-ND◊	372.00/M	TB0900L-13-F
	90	5	130	150	800	60	TB1100LDICT-ND	1.05	.91	.70	TB1100LDITR-ND	372.00/M	TB1100L-13
	90	5	130	150	800	60	TB1100L-FDICT-ND◊	1.05	.91	.70	TB1100L-FDITR-ND◊	372.00/M	TB1100L-13-F
	120	5	160	150	800	60	TB1300L-FDICT-ND◊	1.05	.91	.70	TB1300L-FDITR-ND◊	372.00/M	TB1300L-13-F
	140	5	180	150	800	60	TB1500LDICT-ND	1.05	.91	.70	TB1500LDITR-ND	372.00/M	TB1500L-13
	140	5	180	150	800	60	TB1500L-FDICT-ND◊	1.05	.91	.70	TB1500L-FDITR-ND◊	372.00/M	TB1500L-13-F
	160	5	220	150	800	60	TB1800LDICT-ND	1.05	.91	.70	TB1800LDITR-ND	372.00/M	TB1800L-13
	160	5	220	150	800	60	TB1800L-FDICT-ND◊	1.05	.91	.70	TB1800L-FDITR-ND◊	372.00/M	TB1800L-13-F
	190	5	265	150	800	40	TB2300LDICT-ND	1.05	.91	.70	TB2300LDITR-ND	372.00/M	TB2300L-13
	190	5	265	150	800	40	TB2300L-FDICT-ND◊	1.05	.91	.70	TB2300L-FDITR-ND◊	372.00/M	TB2300L-13-F
	220	5	300	150	800	40	TB2600LDICT-ND	1.05	.91	.70	TB2600LDITR-ND	372.00/M	TB2600L-13
	220	5	300	150	800	40	TB2600L-FDICT-ND◊	1.05	.91	.70	TB2600L-FDITR-ND◊	372.00/M	TB2600L-13-F
	275	5	350	150	800	40	TB3100LDICT-ND	1.05	.91	.70	TB3100LDITR-ND	372.00/M	TB3100L-13
	275	5	350	150	800	40	TB3100L-FDICT-ND◊	1.05	.91	.70	TB3100L-FDITR-ND◊	372.00/M	TB3100L-13-F
	320	5	400	150	800	40	TB3500LDICT-ND	1.05	.91	.70	—	—	TB3500L-13
	320	5	400	150	800	40	TB3500L-FDICT-ND◊	1.05	.91	.70	TB3500L-FDITR-ND◊	372.00/M	TB3500L-13-F
50	58	5	77	150	800	140	TB0640MDICT-ND	1.13	.98	.75	TB0640MDITR-ND	399.00/M	TB0640M-13
	58	5	77	150	800	140	TB0640M-FDICT-ND◊	1.13	.98	.75	TB0640M-FDITR-ND◊	399.00/M	TB0640M-13-F
	65	5	88	150	800	140	TB0720MDICT-ND	1.13	.98	.75	TB0720MDITR-ND	399.00/M	TB0720M-13
	65	5	88	150	800	140	TB0720M-FDICT-ND◊	1.13	.98	.75	TB0720M-FDITR-ND◊	399.00/M	TB0720M-13-F
	75	5	98	150	800	140	TB0900MDICT-ND	1.13	.98	.75	TB0900MDITR-ND	399.00/M	TB0900M-13
	75	5	98	150	800	140	TB0900M-FDICT-ND◊	1.13	.98	.75	TB0900M-FDITR-ND◊	399.00/M	TB0900M-13-F
	90	5	130	150	800	90	TB1100MDICT-ND	1.13	.98	.75	TB1100MDITR-ND	399.00/M	TB01100M-13
	90	5	130	150	800	90	TB1100M-FDICT-ND◊	1.13	.98	.75	TB1100M-FDITR-ND◊	399.00/M	TB01100M-13-F
	120	5	160	150	800	90	TB1300MDICT-ND	1.13	.98	.75	TB1300MDITR-ND	399.00/M	TB1300M-13
	120	5	160	150	800	90	TB1300M-FDICT-ND◊	1.13	.98	.75	TB1300M-FDITR-ND◊	399.00/M	TB1300M-13-F
	140	5	180	150	800	90	TB1500MDICT-ND	1.13	.98	.75	TB1500MDITR-ND	399.00/M	TB1500M-13
	140	5	180	150	800	90	TB1500M-FDICT-ND◊	1.13	.98	.75	TB1500M-FDITR-ND◊	399.00/M	TB1500M-13-F
	160	5	220	150	800	90	TB1800MDICT-ND	1.13	.98	.75	TB1800MDITR-ND	399.00/M	TB1800M-13
	160	5	220	150	800	90	TB1800M-FDICT-ND◊	1.13	.98	.75	TB1800M-FDITR-ND◊	399.00/M	TB1800M-13-F
	190	5	265	150	800	60	TB2300MDICT-ND	1.13	.98	.75	TB2300MDITR-ND	399.00/M	TB2300M-13
	190	5	265	150	800	60	TB2300M-FDICT-ND◊	1.13	.98	.75	TB2300M-FDITR-ND◊	399.00/M	TB2300M-13-F
	220	5	300	150	800	60	TB2600MDICT-ND	1.13	.98	.75	TB2600MDITR-ND	399.00/M	TB2600M-13
	220	5	300	150	800	60	TB2600M-FDICT-ND◊	1.13	.98	.75	TB2600M-FDITR-ND◊	399.00/M	TB2600M-13-F
	275	5	350	150	800	60	TB3100MDICT-ND	1.13	.98	.75	TB3100MDITR-ND	399.00/M	TB3100M-13
	275	5	350	150	800	60	TB3100M-FDICT-ND◊	1.13	.98	.75	TB3100M-FDITR-ND◊	399.00/M	TB3100M-13-F
	320	5	400	150	800	60	TB3500MDICT-ND	1.13	.98	.75	TB3500MDITR-ND	399.00/M	TB3500M-13
	320	5	400	150	800	60	TB3500M-FDICT-ND◊	1.13	.98	.75	TB3500M-FDITR-ND◊	399.00/M	TB3500M-13-F
100	58	5	77	150	800	200	TB0640HDICT-ND	1.24	1.08	.83	TB0640HDITR-ND	439.00/M	TB0640H-13
	58	5	77	150	800	200	TB0640H-FDICT-ND◊	1.24	1.08	.83	TB0640H-FDITR-ND◊	439.00/M	TB0640H-13-F
	65	5	88	150	800	200	TB0720H-FDICT-ND◊	1.24	1.08	.83	TB0720H-FDITR-ND◊	439.00/M	TB0720H-13-F
	75	5	98	150	800	200	TB0900HDICT-ND	1.24	1.08	.83	TB0900HDITR-ND	439.00/M	TB0900H-13
	75	5	98	150	800	200	TB0900H-FDICT-ND◊	1.24	1.08	.83	TB0900H-FDITR-ND◊	439.00/M	TB0900H-13-F
	90	5	130	150	800	120	TB1100HDICT-ND	1.24	1.08	.83	TB1100HDITR-ND	439.00/M	TB1100H-13
	90	5	130	150	800	120	TB1100H-FDICT-ND◊	1.24	1.08	.83	TB1100H-FDITR-ND◊	439.00/M	TB1100H-13-F
	120	5	160	150	800	120	TB1300HDICT-ND	1.24	1.08	.83	TB1300HDITR-ND	439.00/M	TB1300H-13
	120	5	160	150	800	120	TB1300H-FDICT-ND◊	1.24	1.08	.83	TB1300H-FDITR-ND◊	439.00/M	TB1300H-13-F
	140	5	180	150	800	120	TB1500HDICT-ND	1.24	1.08	.83	TB1500HDITR-ND	439.00/M	TB1500H-13
	140	5	180	150	800	120	TB1500H-FDICT-ND◊	1.24	1.08	.83	TB1500H-FDITR-ND◊	439.00/M	TB1500H-13-F
	160	5	220	150	800	120	TB1800HDICT-ND	1.24	1.08	.83	TB1800HDITR-ND	439.00/M	TB1800H-13
	160	5	220	150	800	120	TB1800H-FDICT-ND◊	1.24	1.08	.83	TB1800H-FDITR-ND◊	439.00/M	TB1800H-13-F
	190	5	265	150	800	80	TB2300HDICT-ND	1.24	1.08	.83	TB2300HDITR-ND	439.00/M	TB2300H-13
	190	5	265	150	800	80	TB2300H-FDICT-ND◊	1.24	1.08	.83	TB2300H-FDITR-ND◊	439.00/M	TB2300H-13-F
	220	5	300	150	800	80	TB2600HDICT-ND	1.24	1.08	.83	TB2600HDITR-ND	439.00/M	TB2600H-13
	220	5	300	150	800	80	TB2600H-FDICT-ND◊	1.24	1.08	.83	TB2600H-FDITR-ND◊	439.00/M	TB2600H-13-F
	275	5	350	150	800	80	TB3100HDICT-ND	1.24	1.08	.83	TB3100HDITR-ND	439.00/M	TB3100H-13
	275	5	350	150	800	80	TB3100H-FDICT-ND◊	1.24	1.08	.83	TB3100H-FDITR-ND◊	439.00/M	TB3100H-13-F
	320	5	400	150	800	80	TB3500HDICT-ND	1.24	1.08	.83	TB3500HDITR-ND	439.00/M	TB3500H-13
	320	5	400	150	800	80	TB3500H-FDICT-ND◊	1.24	1.08	.83	TB3500H-FDITR-ND◊	439.00/M	TB3500H-13-F

◊ *RoHS Compliant*

DIODES INCORPORATED

SMA 400 Watt Surface Mount TVS Uni-Directional

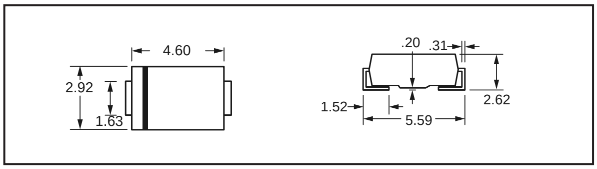

Features:

• 400W Peak Pulse Power Dissipation • 70V Stand-Off Voltage • 100V Maximum Clamping Voltage, a requirement of many -48V backplane telecom applications • Glass Passivated Die Construction • Fast Response Time: Typically less than one ps

Mechanical Data: • Plastic Case Material: UL Flammability Classification Rating 94V-0

Reverse Standoff Voltage VRWM (V)	Breakdown Voltage VBR @ IT Min. (V)	Breakdown Voltage VBR @ IT Max. (V)	Test Current IT (mA)	Max. Reverse Leakage @ VRWM IR (µA)	Maximum Clamping Voltage @ Ipp Vc (V)	Maximum Peak Pulse Current Ipp (A)	Typical Junction Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
70	77.8	89.5	1.0	5.0	100	3.5	55	SMAT70ADICT-ND	.68	.55	.41	SMAT70ADITR-ND	217.00/M
70	77.8	89.5	1.0	5.0	100	3.5	55	SMAT70A-FDICT-ND◊	.77	.62	.46	SMAT70A-FDITR-ND◊	230.00/M

◊ *RoHS Compliant*

300 Watt Low Capacitance Uni-Directional TVS

Features:

• 300W Peak Pulse Power (tp=8x20µs) • Transient protection for data, signal, and Vcc bus to IEC61000-4-2 level 4 (ESD) and IEC 61000-4-4 (EFT) • Low Capacitance, typical <2 pF • Low Leakage Current • Uni-directional configuration • Surface mount package ideally suited for automatic insertion

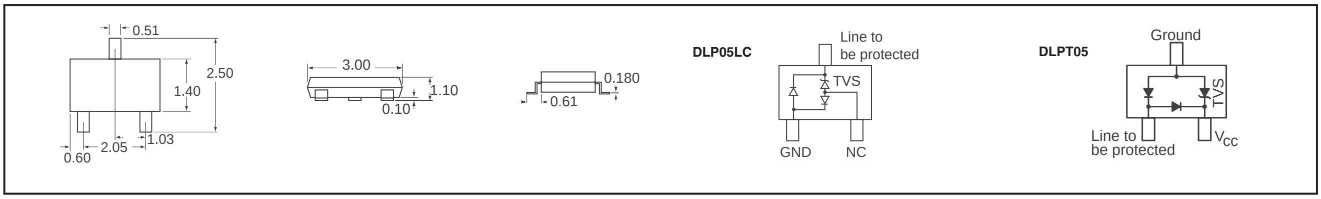

Reverse Standoff Voltage VRWM (V)	Breakdown Voltage VBR @ IT Min. (V)	Test Current IT (mA)	Max. Reverse Leakage @ VRWM IR (µA)	Maximum Clamping Voltage @ Ipp Vc (V)	Maximum Peak Pulse Current Ipp (A)	Typical Junction Capacitance (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
5	6.0	1.0	20	11.0	17	1.6	DLP05LC-FDICT-ND◊	.50	.40	.30	DLP05LC-FDITR-ND◊	150.00/M
5	6.0	1.0	20	9.8	17	1.9	DLPT05DICT-ND	.50	.40	.30	DLPT05DITR-ND	150.00/M
5	6.0	1.0	20	9.8	17	1.9	DLPT05-FDICT-ND◊	.50	.40	.30	DLPT05-FDITR-ND◊	150.00/M

◊ *RoHS Compliant*

Dual Surface Mount TVS

Features: • Dual TVS in common anode and cathode configuration • 24W/40W Peak Power Dissipation Rating @ 1.0ms (Uni-directional) • Ideally suited for automatic insertion • 225mW Power Dissipation

Mechanical Data: • **Case**: SOT-23, Molded plastic • **Case Material**: UL Flammability Classification Rating 94V-0 • **Terminals**: Solderable per MIL-STD-202, Method 208

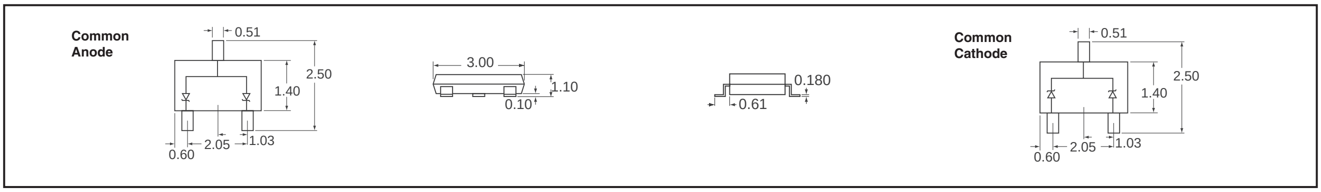

Peak Power Dissipation	V_{RWM} (V)	I_R @ V_{RWM} (µA)	Breakdown Voltage V_{BR} (V) Min.	Nom.	Max.	@ I_T (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
						Common Anode						
24W	3	5.0	5.32	5.6	5.88	20	MMBZ5V6ALDICT-ND	.50	.40	.30	—	—
	3	5.0	5.32	5.6	5.88	20	MMBZ5V6AL-FDICT-ND◊	.50	.40	.30	MMBZ5V6AL-FDITR-ND◊	150.00/M
	4.5	0.5	6.46	6.8	7.14	1.0	MMBZ6V8AL-FDICT-ND◊	.50	.40	.30	MMBZ6V8AL-FDITR-ND◊	150.00/M
	6.0	0.3	8.65	9.1	9.56	1.0	MMBZ9V1ALDICT-ND	.50	.40	.30	MMBZ9V1ALDITR-ND	150.00/M
	6.0	0.3	8.65	9.1	9.56	1.0	MMBZ9V1AL-FDICT-ND◊	.50	.40	.30	MMBZ9V1AL-FDITR-ND◊	150.00/M
	6.5	0.3	9.50	10	10.5	1.0	MMBZ10VAL-FDICT-ND◊	.50	.40	.30	MMBZ10VAL-FDITR-ND◊	150.00/M
40W	12	.05	14.25	15	15.75	1.0	MMBZ15VALDICT-ND	.50	.40	.30	MMBZ15VALDITR-ND	150.00/M
	12	.05	14.25	15	15.75	1.0	MMBZ15VAL-FDICT-ND◊	.50	.40	.30	MMBZ15VAL-FDITR-ND◊	150.00/M
	14.5	.05	17.10	18	18.90	1.0	MMBZ18VALDICT-ND	.50	.40	.30	MMBZ18VALDITR-ND	150.00/M
	14.5	.05	17.10	18	18.90	1.0	MMBZ18VAL-FDICT-ND◊	.50	.40	.30	MMBZ18VAL-FDITR-ND◊	150.00/M
	17	.05	19.00	20	21.00	1.0	MMBZ20VALDICT-ND	.50	.40	.30	MMBZ20VALDITR-ND	150.00/M
	17	.05	19.00	20	21.00	1.0	MMBZ20VAL-FDICT-ND◊	.50	.40	.30	MMBZ20VAL-FDITR-ND◊	150.00/M
	22	.05	25.65	27	28.35	1.0	MMBZ27VAL-FDICT-ND◊	.50	.40	.30	MMBZ27VAL-FDITR-ND◊	150.00/M
	26	.05	31.35	33	34.65	1.0	MMBZ33VALDICT-ND	.50	.40	.30	MMBZ33VALDITR-ND	150.00/M
	26	.05	31.35	33	34.65	1.0	MMBZ33VAL-FDICT-ND◊	.50	.40	.30	MMBZ33VAL-FDITR-ND◊	150.00/M
						Common Cathode						
40W	12.8	0.1	14.3	15	15.8	1.0	MMBZ15VDLDICT-ND	.50	.40	.30	MMBZ15VDLDITR-ND	150.00/M
	12.8	0.1	14.3	15	15.8	1.0	MMBZ15VDL-FDICT-ND◊	.50	.40	.30	MMBZ15VDL-FDITR-ND◊	150.00/M
	22	.05	25.65	27	28.35	1.0	MMBZ27VCLDICT-ND	.50	.40	.30	MMBZ27VCLDITR-ND	150.00/M
	22	.05	25.65	27	28.35	1.0	MMBZ27VCL-FDICT-ND◊	.50	.40	.30	MMBZ27VCL-FDITR-ND◊	150.00/M

◊ *RoHS Compliant*

DIODES INCORPORATED

SMAJ (J-Bend) 400 Watt Surface Mount TVS

RoHS COMPLIANT

Direction Type	*(Value)* Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	Direction Type	*(Value)* Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)
Uni/Bi	5.0	6.40	7.25	800	Uni/Bi	28	31.1	34.4	5.0
Uni/Bi	6.0	6.67	7.37	800	Uni/Bi	30	33.3	36.8	5.0
Uni/Bi	6.5	7.22	7.98	500	Uni/Bi	33	36.7	40.6	5.0
Uni/Bi	7.0	7.78	8.60	200	Uni/Bi	36	40.0	44.2	5.0
Uni/Bi	7.5	8.33	9.21	100	Uni/Bi	40	44.4	49.1	5.0
Uni/Bi	8.0	8.89	9.83	50	Uni/Bi	43	47.8	52.8	5.0
Uni/Bi	8.5	9.44	10.4	10	Uni/Bi	45	50.0	55.3	5.0
Uni	9.0	10.0	11.1	5.0	Uni/Bi	48	53.3	58.9	5.0
Uni/Bi	10	11.1	12.3	5.0	Uni/Bi	60	66.7	73.7	5.0
Uni/Bi	11	12.2	13.5	5.0	Uni/Bi	64	71.1	78.6	5.0
Uni/Bi	12	13.3	14.7	5.0	Uni/Bi	70	77.8	86.0	5.0
Bi	13	14.4	15.9	5.0	Uni/Bi	75	83.3	92.1	5.0
Uni/Bi	14	15.6	17.2	5.0	Uni/Bi	78	86.7	95.8	5.0
Uni/Bi	15	16.7	18.5	5.0	Uni/Bi	85	94.4	104	5.0
Uni/Bi	16	17.8	19.7	5.0	Uni/Bi	90	100	111	5.0
Uni/Bi	17	18.9	20.9	5.0	Uni/Bi	100	111	123	5.0
Uni/Bi	18	20.0	22.1	5.0	Uni/Bi	110	122	135	5.0
Uni/Bi	20	22.2	24.5	5.0	Uni/Bi	120	133	147	5.0
Uni/Bi	22	24.4	26.9	5.0	Uni/Bi	130	144	159	5.0
Uni/Bi	24	26.7	29.5	5.0	Uni/Bi	150	167	185	5.0
Uni/Bi	26	28.9	25.3	5.0	Uni/Bi	160	178	197	5.0
					Uni/Bi	170	189	209	5.0

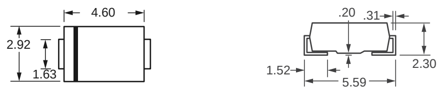

Features:

• 400W Peak Pulse Power Dissipation • 5.0V - 170V Stand-Off Voltages • Glass Passivated Die Construction • Uni/Bi = Uni- and Bi-directional versions available; Uni = Only available in Uni-directional version; Bi = Only available in Bi-directional version • Excellent clamping capability • Fast response time

Mechanical Data:

• **Case:** SMA, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0
• **Terminals:** Solderable per MIL-STD-202, Method 208

• ***Note: Contact www.digikey.com for current availability on RoHS compliant parts***

Voltage Range *(Value)* See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
Uni-Directional						
6.0 - 170	SMAJ(Value)ADICT-ND	.68	.55	.41	SMAJ(Value)ADITR-ND	217.00/M
5.0 - 170	SMAJ(Value)A-FDICT-ND◊	.77	.62	.46	SMAJ(Value)A-FDITR-ND◊	230.00/M
Bi-Directional						
5.0 - 170	SMAJ(Value)CADICT-ND	.76	.61	.46	SMAJ(Value)CADITR-ND	242.00/M
5.0 - 170	SMAJ(Value)CA-FDICT-ND◊	.86	.69	.52	SMAJ(Value)CA-FDITR-ND◊	257.00/M

◊ ***RoHS Compliant***

SMBJ (J-Bend) 600 Watt Surface Mount TVS

RoHS COMPLIANT

Direction Type	*(Value)* Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	Direction Type	*(Value)* Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)
Uni/Bi	5.0	6.40	7.23	800	Uni/Bi	33	36.70	42.20	5.0
Uni/Bi	6.0	6.67	7.67	800	Uni/Bi	36	40.00	46.00	5.0
Uni/Bi	6.5	7.22	9.14	1000	Uni/Bi	40	44.40	51.10	5.0
Uni/Bi	7.0	7.78	8.95	200	Uni	43	47.80	54.90	5.0
Uni/Bi	7.5	8.33	9.58	100	Uni/Bi	45	50.00	57.50	5.0
Uni/Bi	8.0	8.89	10.23	50	Uni/Bi	48	53.30	61.30	5.0
Uni/Bi	8.5	9.44	10.82	10	Uni/Bi	51	56.70	65.20	5.0
Uni/Bi	9.0	10.00	11.50	5.0	Uni/Bi	54	60.00	69.00	5.0
Uni/Bi	10	11.1	12.8	5.0	Uni/Bi	58	64.40	74.60	5.0
Uni/Bi	11	12.20	14.40	5.0	Uni/Bi	60	66.70	76.70	5.0
Uni/Bi	12	13.3	15.3	5.0	Uni/Bi	64	71.10	81.80	5.0
Uni/Bi	13	14.4	16.5	5.0	Uni/Bi	70	77.80	89.50	5.0
Uni/Bi	14	15.60	17.90	5.0	Uni/Bi	75	83.30	95.80	5.0
Uni/Bi	15	16.7	19.2	5.0	Uni/Bi	78	86.70	99.70	5.0
Uni/Bi	16	17.80	20.50	5.0	Uni/Bi	85	94.40	108.20	5.0
Uni/Bi	17	18.9	21.7	5.0	Uni/Bi	90	100.0	115.50	5.0
Uni/Bi	18	20.0	24.4	5.0	Uni/Bi	100	111.0	128.00	5.0
Uni/Bi	20	22.2	25.5	5.0	Uni/Bi	110	122.0	140.00	5.0
Uni/Bi	22	24.40	28.00	5.0	Uni/Bi	120	133.0	153.00	5.0
Uni/Bi	24	26.7	30.7	5.0	Uni/Bi	130	144.0	165.50	5.0
Uni/Bi	26	28.9	33.2	5.0	Uni/Bi	150	167.0	192.50	5.0
Uni/Bi	28	31.10	35.80	5.0	Uni/Bi	160	178.0	205.00	5.0
Uni/Bi	30	33.30	38.30	5.0	Uni/Bi	170	189.0	217.50	5.0

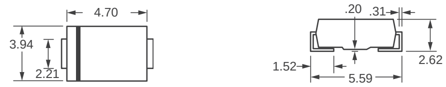

Features:

• 600W Peak Pulse Power Dissipation • 5.0V - 170V Stand-Off Voltages • Glass Passivated Die Construction • Uni/Bi = Uni- and Bi-directional versions available; Uni = Only available in Uni-directional version • Excellent clamping capability • Fast response time • 100% tested at rated peak pulse power

Mechanical Data:

• **Case:** SMB, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0 • **Terminals:** Solderable per MIL-STD-202, Method 208

• ***Note: Contact www.digikey.com for current availability on RoHS compliant parts***

Voltage Range *(Value)* See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Uni-Directional						
6.0 - 170	SMBJ(Value)ADICT-ND	.89	.71	.54	SMBJ(Value)ADITR-ND	351.00/M
5.0 - 170	SMBJ(Value)A-FDICT-ND◊	1.01	.88	.68	SMBJ(Value)A-FDITR-ND◊	359.00/M
Bi-Directional						
5.0 - 170	SMBJ(Value)CADICT-ND	.96	..76	..58	SMBJ(Value)CADITR-ND	377.00/M
5.0 - 170	SMBJ(Value)CA-FDICT-ND◊	1.09	.95	.73	SMBJ(Value)CA-FDITR-ND◊	386.00/M

◊ ***RoHS Compliant***

SMCJ (J-Bend) 1500 Watt Surface Mount TVS

RoHS COMPLIANT

Direction Type	*(Value)* Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)	Direction Type	*(Value)* Reverse Standoff Voltage Vrwm (Volts)	Breakdown Voltage (VBR) Min.	Max.	Max. Reverse Leakage @ Vrwm IR (µA)
Uni/Bi	5.0	6.40	7.25	1000	Uni/Bi	33	36.70	42.20	5.0
Uni/Bi	6.0	6.67	7.67	1000	Uni/Bi	36	40.00	46.00	5.0
Uni/Bi	6.5	7.22	8.30	500	Uni/Bi	40	44.40	51.10	5.0
Uni/Bi	7.0	7.78	8.60	200	Uni/Bi	43	47.80	54.90	5.0
Uni/Bi	7.5	8.33	9.58	100	Uni/Bi	45	50.00	57.50	5.0
Uni/Bi	8.0	8.89	10.23	50	Uni/Bi	48	53.30	58.9	5.0
Uni/Bi	8.5	9.44	10.82	20	Uni/Bi	51	56.70	65.20	5.0
Uni/Bi	9.0	10.00	11.50	10	Uni/Bi	54	60.00	69.00	5.0
Uni/Bi	10	11.10	12.80	5.0	Uni/Bi	58	64.40	71.2	5.0
Uni/Bi	11	12.20	14.40	5.0	Uni/Bi	60	66.70	73.7	5.0
Uni/Bi	12	13.30	15.30	5.0	Uni/Bi	64	71.10	78.6	5.0
Uni/Bi	13	14.40	16.50	5.0	Uni/Bi	70	77.80	89.50	5.0
Uni/Bi	14	15.60	17.2	5.0	Uni/Bi	75	83.30	95.80	5.0
Uni/Bi	15	16.70	19.20	5.0	Uni/Bi	78	86.70	99.70	5.0
Uni/Bi	16	17.80	20.50	5.0	Uni/Bi	85	94.40	108.20	5.0
Uni/Bi	17	18.90	21.70	5.0	Uni/Bi	90	100	111	5.0
Uni/Bi	18	20.00	23.30	5.0	Uni/Bi	100	111	123	5.0
Uni/Bi	20	22.20	25.50	5.0	Uni/Bi	110	122	135	5.0
Uni/Bi	22	24.40	27.00	5.0	Uni/Bi	120	133	147	5.0
Uni/Bi	24	26.70	30.70	5.0	Uni/Bi	130	144	159	5.0
Uni/Bi	26	28.90	31.9	5.0	Uni/Bi	150	167	185	5.0
Uni/Bi	28	31.10	35.80	5.0	Uni/Bi	160	178	197	5.0
Uni/Bi	30	33.30	38.30	5.0	Uni/Bi	170	189	209	5.0

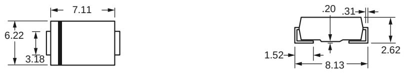

Features:

• 1500W Peak Pulse Power Dissipation • 5.0V - 170V Stand-Off Voltages • Glass Passivated Die Construction • Uni/Bi = Uni- and Bi-directional versions available • Excellent clamping capability • Fast response time

Mechanical Data:

• **Case:** SMC, Transfer molded epoxy • **Case Material:** UL Flammability Classification Rating 94V-0
• **Terminals:** Solderable per MIL-STD-202, Method 208

• ***Note: Contact www.digikey.com for current availability on RoHS compliant parts***

Voltage Range *(Value)* See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
Uni-Directional						
5.0 - 170	SMCJ(Value)ADICT-ND	1.25	.99	.76	SMCJ(Value)ADITR-ND	494.00/M
5.0 - 170	SMCJ(Value)A-FDICT-ND◊	1.43	1.24	.95	SMCJ(Value)A-FDITR-ND◊	505.00/M
Bi-Directional						
5.0 - 170	SMCJ(Value)CADICT-ND	1.39	1.10	.84	SMCJ(Value)CADITR-ND	546.00/M
5.0 - 170	SMCJ(Value)CA-FDICT-ND◊	1.58	1.37	1.05	SMCJ(Value)CA-FDITR-ND◊	559.00/M

◊ ***RoHS Compliant***

SA Series – 500 Watt Axial TVS

Description	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 4,000
Uni-directional	5.0 ~ 33	SA**(Value)**ALFCT-ND	.39	.35	.30	SA**(Value)**ALFTR-ND*	130.95/M
Bi-directional	6.0 ~ 33	SA**(Value)**CALFCT-ND	.43	.39	.33	SA**(Value)**CALFTR-ND	160.50/M

* 5000 piece Tape and Reel for value 16

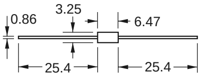

Improved 500W TVS diodes that can handle 1.0 watt steady state with improved reverse leakage characteristics. 100% surge tested. Use for applications requiring surge protection of sensitive electronic components. Marking: Cathode band – positive terminal (Uni-directional only), device code and logo.

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T		Maximum Reverse Leakage I_R @ V_R (µA)
		Min.	Max.	
5.0	5.0	6.40	7.00	600.0
6.0	6.0	6.67	7.37	600.0
12	12.0	13.30	14.70	3.0
15	15.0	16.70	18.50	3.0
16*	16.0	17.80	19.70	3.0
33	33.0	36.70	40.60	3.0

P6KE Series – 600 Watt Axial TVS

Protects sensitive electronics against voltage transients induced by ESD, inductive load switching and lighting. Ideal for protection of I/O interfaces, Vcc bus and other power supply circuits. Marking: Cathode band – positive terminal (Uni-directional only), device code and logo.

Features: • Glass passivated junction • Excellent clamping capability • Uni-directional and Bi-directional • 100% surge tested • UL listed

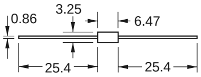

Description	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
Uni-directional	6.8 ~ 68	P6KE**(Value)**ALFCT-ND	.33	.30	.25	P6KE**(Value)**ALFTR-ND*	124.50/M
Bi-directional	6.8 ~ 68	P6KE**(Value)**CALFCT-ND	.37	.34	.28	P6KE**(Value)**CALFTR-ND*	139.50/M

* 4000 piece Tape and Reel for values 6.8, 7.5, 15, 16 and 68

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T		Maximum Reverse Leakage I_R @ V_R (µA)
		Min.	Max.	
6.8*	5.80	6.45	7.14	1000.0
7.5*	6.40	7.13	7.88	500.0
9.1	7.78	8.65	9.55	50.0
10	8.55	9.50	10.50	10.0
12	10.20	11.40	12.60	5.0
13	11.10	12.40	13.70	5.0
15*	12.80	14.30	15.80	5.0
16*	13.60	15.20	16.80	5.0

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T		Maximum Reverse Leakage I_R @ V_R (µA)
		Min.	Max.	
18	15.3	17.10	18.90	5.0
20	17.1	19.00	21.00	5.0
24	20.5	22.80	25.20	5.0
27	23.1	25.70	28.40	5.0
30	25.6	28.50	31.50	5.0
33	28.2	31.40	34.70	5.0
68*	58.1	64.60	71.40	5.0

1.5KE Series – 1500 Watt Axial TVS

Description	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500
Uni-directional	6.8 ~ 30	1.5KE**(Value)**ALFCT-ND	.59	.53	.45	1.5KE**(Value)**ALFTR-ND	220.50/M
Bi-directional	6.8 ~ 30	1.5KE**(Value)**CALFCT-ND	.65	.59	.49	1.5KE**(Value)**CALFTR-ND*	243.00/M

* 1,200 piece Tape and Reel

Features: • Glass passivated junction • Low clamping factor • Uni-directional and Bi-directional • 100% surge tested • UL listed

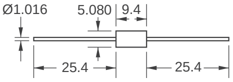

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T		Maximum Reverse Leakage I_R @ V_R (µA)
		Min.	Max.	
6.8*	5.80	6.45	7.14	1000.0
7.5*	6.40	7.13	7.88	500.0
10	8.55	9.50	10.50	10.0
15	12.80	14.30	15.80	5.0
30	25.60	28.50	31.50	5.0

5KP Series – 5000 Watt Axial TVS

Description	Tol.	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 800
Uni-directional	5%	5.0 ~ 70	5KP**(Value)**ALFCT-ND	3.24	2.92	2.44	5KP**(Value)**ALFTR-ND*	973.20
Bi-directional	10%	5.0	5KP5.0CLFCT-ND	3.46	3.12	2.60	5KP5.0CLFTR-ND	1039.20
	5%	6.0 ~ 70	5KP**(Value)**CALFCT-ND	3.57	3.22	2.68	5KP**(Value)**CALFTR-ND	1070.40

* 1,000 piece Tape and Reel

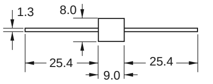

When no problems exist, TVS diodes are invisible to the circuits they're protecting. But when potentially damaging transients occur, the TVS diodes provide high-speed "clamping" to prevent damage - after which they return to their electronically invisible state. Littelfuse TVS diodes are available in industry-standard packages.

Features: • Glass passivated junction • Low clamping factor • Uni-directional and Bi-directional • 100% surge tested • UL listed

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T		Maximum Reverse Leakage I_R @ V_R (µA)
		Min.	Max.	
5.0	5.0	6.40	7.00	5000.0
6.0	6.0	6.67	7.37	5000.0
10	10.0	11.10	12.30	15.0
15	15.0	16.70	18.50	10.0
24	24.0	26.70	29.50	10.0
30	30.0	33.30	36.80	10.0
33	33.0	36.70	40.60	10.0
36	36.0	40.00	44.20	10.0
40*	40.0	44.40	49.10	10.0
43	43.0	47.80	52.80	10.0
70	70.0	77.00	86.00	10.0

SMAJ Series – 400 Watt TVS Diode

FEATURES: • Glass passivated junction • J lead construction

SPECIFICATIONS: • **Voltage Tolerance:** 5% • **Operating Temperature:** -55°C ~ 150°C • **High Temperature Soldering:** 250°C for 10 seconds at terminals • **Plastic Package:** UL94V-0 • **Case:** JEDEC DO-214AC • **Electrical Specification:** Tested at 25°C

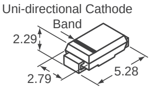

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T		Maximum Reverse Leakage I_R @ V_R (µA)
		Min.	Maximum	
5.0	5.0	6.40	7.00	800.0
6.0	6.0	6.67	7.37	800.0
6.5	6.5	7.22	7.98	500.0
7.0	7.0	7.78	8.60	200.0
7.5	7.5	8.33	9.21	100.0
8.0	8.0	8.89	9.83	50.0
8.5	8.5	9.44	10.40	20.0
9.0	9.0	10.00	11.10	10.0
10	10.0	11.10	12.30	5.0
11	11.0	12.20	13.50	5.0
12	12.0	13.30	14.70	5.0
13	13.0	14.40	15.90	5.0
14	14.0	15.60	17.20	5.0
15	15.0	16.70	18.50	5.0
16	16.0	17.80	19.70	5.0
17	17.0	18.90	20.90	5.0
18	18.0	20.00	22.10	5.0
20	20.0	22.20	24.50	5.0

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T		Maximum Reverse Leakage I_R @ V_R (µA)
		Min.	Maximum	
22	22.0	24.40	26.90	5.0
24	24.0	26.70	29.50	5.0
26	26.0	28.90	31.90	5.0
28	28.0	31.10	34.40	5.0
30	30.0	33.30	36.80	5.0
33	33.0	36.70	40.60	5.0
36	36.0	40.00	44.20	5.0
40	40.0	44.40	49.10	5.0
45	45.0	50.00	55.30	5.0
48	48.0	53.30	58.90	5.0
51	51.0	56.70	62.70	5.0
54	54.0	60.00	66.30	5.0
58	58.0	64.40	71.20	5.0
60	60.0	66.70	73.70	5.0
64	64.0	71.10	78.60	5.0
70	70.0	77.80	86.00	5.0
75	75.0	83.30	92.10	5.0

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T		Maximum Reverse Leakage I_R @ V_R (µA)
		Min.	Maximum	
78	78.0	86.70	95.80	5.0
85	85.0	94.40	104.00	5.0
90	90.0	100.00	111.00	5.0
100	100.0	111.00	123.00	5.0
110	110.0	122.00	135.00	5.0
120	120.0	133.00	147.00	5.0
130	130.0	144.00	159.00	5.0
150	150.0	167.00	185.00	5.0
160	160.0	178.00	197.00	5.0
170	170.0	189.00	209.00	5.0
180	180.0	201.00	222.00	5.0
200	200.0	224.00	247.00	5.0
220	220.0	246.00	272.00	5.0
250	250.0	279.00	309.00	5.0
300	300.0	335.00	371.00	5.0
350	350.0	391.00	432.00	5.0
400	400.0	447.00	494.00	5.0
440	440.0	492.00	543.00	5.0

* Reverse Leakage is at Reverse Stand Off Voltage (VR)

Description	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 5,000
Uni-directional TVS	5.0 ~ 200 220 ~ 440	SMAJ**(Value)**ALFCT-ND SMAJ**(Value)**ALFCT-ND	.34 .48	.31 .44	.26 .36	SMAJ**(Value)**ALFTR-ND SMAJ**(Value)**ALFTR-ND	116.10/M 162.00/M
Bi-directional TVS	5.0 ~ 51 54 ~ 440	SMAJ**(Value)**CALFCT-ND SMAJ**(Value)**CALFCT-ND	.38 .53	.35 .48	.29 .40	SMAJ**(Value)**CALFTR-ND SMAJ**(Value)**CALFTR-ND	128.25/M 179.55/M

Littelfuse®

SMBJ and P6SMBJ Series – 600 Watt TVS Diode

FEATURES: • Glass passivated junction • J lead construction

SPECIFICATIONS: • **Voltage Tolerance:** 5% • **Operating Temperature:** -55°C ~ 150°C • **High Temperature Soldering:** 250°C for 10 seconds at terminals • **Case:** JEDEC DO-214AA • **Electrical Specification:** Tested at 25°C

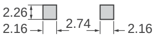

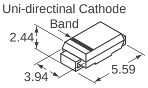

SMBJ Series

(Value) Nominal Break-down Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	*Max. Reverse Leakage I_R @ V_R (µA)	***(Value)*** Nominal Break-down Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	*Max. Reverse Leakage I_R @ V_R (µA)
5.0	5.0	6.40	7.00	800.0	**45**	45.0	50.00	55.30	5.0
6.0	6.0	6.67	7.37	800.0	**48**	48.0	53.30	58.90	5.0
6.5	6.5	7.22	7.98	500.0	**51**	51.0	56.70	62.70	5.0
7.0	7.0	7.78	8.60	200.0	**54**	54.0	60.00	66.30	5.0
7.5	7.5	8.33	9.21	100.0	**58**	58.0	64.40	71.20	5.0
8.0	8.0	8.89	9.83	50.0	**60**	60.0	66.70	73.70	5.0
8.5	8.5	9.44	10.40	20.0	**64**	64.0	71.10	78.60	5.0
9.0	9.0	10.00	11.10	10.0	**70**	70.0	77.80	86.00	5.0
10	10.0	11.10	12.30	5.0	**75**	75.0	83.30	92.10	5.0
11	11.0	12.20	13.50	5.0	**78**	78.0	86.70	95.80	5.0
12	12.0	13.30	14.70	5.0	**85**	85.0	94.40	104.00	5.0
13	13.0	14.40	15.90	5.0	**90**	90.0	100.00	111.00	5.0
14	14.0	15.60	17.20	5.0	**100**	100.0	111.00	123.00	5.0
15	15.0	16.70	18.50	5.0	**110**	110.0	122.00	135.00	5.0
16	16.0	17.80	19.70	5.0	**120**	120.0	133.00	147.00	5.0
17	17.0	18.90	20.90	5.0	**130**	130.0	144.00	159.00	5.0
18	18.0	20.00	22.10	5.0	**150**	150.0	167.00	185.00	5.0
20	20.0	22.20	24.50	5.0	**160**	160.0	178.00	197.00	5.0
22	22.0	24.40	26.90	5.0	**170**	170.0	189.00	209.00	5.0
24	24.0	26.70	29.50	5.0	**180**	180.0	201.00	222.00	5.0
26	26.0	28.90	31.90	5.0	**200**	200.0	224.00	247.00	5.0
28	28.0	31.10	34.40	5.0	**220**	220.0	246.00	272.00	5.0
30	30.0	33.30	36.80	5.0	**300**	300.0	335.00	371.00	5.0
33	33.0	36.70	40.60	5.0	**350**	350.0	391.00	432.00	5.0
36	36.0	40.00	44.20	5.0	**400**	400.0	447.00	494.00	5.0
40	40.0	44.40	49.10	5.0	**440**	440.0	492.00	543.00	5.0
43	43.0	47.80	52.80	5.0					

* Reverse Leakage is at Reverse Stand Off Voltage (VR)

P6SMBJ Series

(Value) Nominal Break-down Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	*Max. Reverse Leakage I_R @ V_R (µA)	***(Value)*** Nominal Break-down Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	*Max. Reverse Leakage I_R @ V_R (µA)
6.8	5.80	6.45	7.14	1000.0	**68**	58.10	64.60	71.40	5.0
7.5	6.40	7.13	7.88	500.0	**75**	64.10	71.30	78.80	5.0
8.2	7.02	7.79	8.61	200.0	**82**	70.10	77.90	86.10	5.0
9.1	7.78	8.65	9.55	50.0	**91**	77.80	86.50	95.50	5.0
10	8.55	9.50	10.50	10.0	**100**	85.50	95.00	105.00	5.0
11	9.40	10.50	11.60	5.0	**110**	94.00	105.00	116.00	5.0
12	10.20	11.40	12.60	5.0	**120**	102.00	114.00	126.00	5.0
13	11.10	12.40	13.70	5.0	**130**	111.00	124.00	137.00	5.0
15	12.80	14.30	15.80	5.0	**150**	128.00	143.00	158.00	5.0
16	13.60	15.20	16.80	5.0	**160**	136.00	152.00	168.00	5.0
18	15.30	17.10	18.90	5.0	**170**	145.00	162.00	179.00	5.0
20	17.10	19.00	21.00	5.0	**180**	154.00	171.00	189.00	5.0
22	18.80	20.90	23.10	5.0	**200**	171.00	190.00	210.00	5.0
24	20.50	22.80	25.20	5.0	**220**	185.00	209.00	231.00	5.0
27	23.10	25.70	28.40	5.0	**250**	214.00	237.00	263.00	5.0
30	25.60	28.50	31.50	5.0	**300**	256.00	285.00	315.00	5.0
33	28.20	31.40	34.70	5.0	**350**	300.00	332.00	368.00	5.0
36	30.80	34.20	37.80	5.0	**400**	342.00	380.00	420.00	5.0
39	33.30	37.10	41.00	5.0	**440**	376.00	418.00	462.00	5.0
43	36.80	40.90	45.20	5.0	**480**	408.00	456.00	504.00	5.0
47	40.20	44.70	49.40	5.0	**510**	434.00	485.00	535.00	5.0
51	43.60	48.50	53.60	5.0	**530**	459.00	513.00	567.00	5.0
56	47.80	53.20	58.80	5.0	**540**	477.00	503.50	556.50	5.0
62	53.00	58.90	65.10	5.0	**550**	495.00	522.50	577.50	5.0

* Reverse Leakage is at Reverse Stand Off Voltage (VR)

Series	Description	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
SMBJ	Uni-directional TVS	5.0 ~ 200 220 ~ 440	SMBJ**(Value)**ALFCT-ND SMBJ**(Value)**ALFCT-ND	.36 .51	.33 .46	.28 .39	SMBJ**(Value)**ALFTR-ND SMBJ**(Value)**ALFTR-ND	122.85/M 171.45/M
	Bi-directional TVS	5.0 ~ 200 220 ~ 440	SMBJ**(Value)**CALFCT-ND SMBJ**(Value)**CALFCT-ND	.40 .56	.36 .51	.30 .42	SMBJ**(Value)**CALFTR-ND SMBJ**(Value)**CALFTR-ND	135.00/M 189.00/M
P6SMBJ	Uni-directional TVS	6.8 ~ 200 220 ~ 550	P6SMBJ**(Value)**ALFCT-ND P6SMBJ**(Value)**ALFCT-ND	.36 .51	.33 .46	.28 .39	P6SMBJ**(Value)**ALFTR-ND P6SMBJ**(Value)**ALFTR-ND	122.85/M 171.45/M
	Bi-directional TVS	6.8 ~ 200 220 ~ 550	P6SMBJ**(Value)**CALFCT-ND P6SMBJ**(Value)**CALFCT-ND	.40 .56	.36 .51	.30 .42	P6SMBJ**(Value)**CALFTR-ND P6SMBJ**(Value)**CALFTR-ND	135.00/M 189.00/M

SMCJ Series – 1500 Watt TVS Diode

FEATURES:
• Glass passivated junction • J lead construction

SPECIFICATIONS:
• **Voltage Tolerance:** 5% • **Operating Temperature:** -55°C ~ 150°C • **High Temperature Soldering:** 250°C for 10 seconds at terminals • **Plastic Package:** UL94V-0 • **Case:** JEDEC DO-214AB • **Electrical Specification:** Tested at 25°C

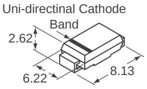

(Value) Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	*Max. Reverse Leakage I_R @ V_R (µA)	***(Value)*** Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	*Max. Reverse Leakage I_R @ V_R (µA)	***(Value)*** Nominal Breakdown Voltage	Reverse Stand Off Voltage V_R (V)	Breakdown Voltage V_{BR} (V) @ I_T Min.	Max.	*Max. Reverse Leakage I_R @ V_R (µA)
5.0	5.0	6.40	7.00	800.0	**22**	22.0	24.40	26.90	5.0	**78**	78.0	86.70	95.80	5.0
6.0	6.0	6.67	7.37	800.0	**24**	24.0	26.70	29.50	5.0	**85**	85.0	94.40	104.00	5.0
6.5	6.5	7.22	7.98	500.0	**26**	26.0	28.90	31.90	5.0	**90**	90.0	100.00	111.00	5.0
7.0	7.0	7.78	8.60	200.0	**28**	28.0	31.10	34.40	5.0	**100**	100.0	111.00	123.00	5.0
7.5	7.5	8.33	9.21	100.0	**30**	30.0	33.30	36.80	5.0	**110**	110.0	122.00	135.00	5.0
8.0	8.0	8.89	9.83	50.0	**33**	33.0	36.70	40.60	5.0	**120**	120.0	133.00	147.00	5.0
8.5	8.5	9.44	10.40	20.0	**36**	36.0	40.00	44.20	5.0	**130**	130.0	144.00	159.00	5.0
9.0	9.0	10.00	11.10	10.0	**40**	40.0	44.40	49.10	5.0	**150**	150.0	167.00	185.00	5.0
10	10	11.10	12.30	5.0	**45**	45.0	50.00	55.30	5.0	**160**	160.0	178.00	197.00	5.0
11	11	12.20	13.50	5.0	**48**	48.0	53.30	58.90	5.0	**170**	170.0	189.00	209.00	5.0
12	12	13.30	14.70	5.0	**51**	51.0	56.70	62.70	5.0	**180**	180.0	201.00	222.00	5.0
13	13	14.40	15.90	5.0	**54**	54.0	60.00	66.30	5.0	**200**	200.0	224.00	247.00	5.0
14	14	15.60	17.20	5.0	**58**	58.0	64.40	71.20	5.0	**220**	220.0	246.00	272.00	5.0
15	15	16.70	18.50	5.0	**60**	60.0	66.70	73.70	5.0	**250**	250.0	279.00	309.00	5.0
16	16	17.80	19.70	5.0	**64**	64.0	71.10	78.60	5.0	**300**	300.0	335.00	371.00	5.0
17	17	18.90	20.90	5.0	**70**	70.0	77.80	86.00	5.0	**350**	350.0	391.00	432.00	5.0
18	18	20.00	22.10	5.0	**75**	75.0	83.30	92.10	5.0	**400**	400.0	447.00	494.00	5.0
20	20	22.20	24.50	5.0						**440**	440.0	492.00	543.00	5.0

* Reverse Leakage is at Reverse Stand Off Voltage (VR)

Description	Voltage Range ***(Value)*** See Chart	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 3,000
Uni-directional TVS	5.0 ~ 200 220 ~ 440	SMCJ**(Value)**ALFCT-ND SMCJ**(Value)**ALFCT-ND	.64 .98	.58 .88	.48 .74	SMCJ**(Value)**ALFTR-ND SMCJ**(Value)**ALFTR-ND	214.65/M 329.40/M
Bi-directional TVS	5.0 ~ 200 220 ~ 440	SMCJ**(Value)**CALFCT-ND SMCJ**(Value)**CALFCT-ND	.70 .98	.63 .88	.53 .74	SMCJ**(Value)**CALFTR-ND SMCJ**(Value)**CALFTR-ND	234.90/M 329.40/M

ON Semiconductor™ Transient Voltage Suppressors

Surface Mount

ON Semiconductor's standard TVS comprise the largest inventoried line in the industry. Continuous development of improved manufacturing techniques have resulted in computerized diffusion and test, as well as critical process controls learned from surface-sensitive MOS fabrication. The resulting higher yields have lowered the factory costs. **Specifications: SOT-23:** • Allows either two separate unidirectional configurations or a single bidirectional configuration • Maximum clamping voltage @ peak pulse current • Flammability rating UL 94V-O **POWERMITE®:** • Peak power: 200W @ 1ms • Maximum clamp voltage @ peak pulse current • Low leakage • Response time is typically < 1ns • Integral heat sink/locking tabs • Full metallic bottom eliminates flux entrapment • Cathode indicated by polarity band • Pb-Free package **SMA:** • Peak power: 400W @1ms • Response time is typically <1ns **Mechanical Characteristics:** • **Case:** Void-free, transfer molded, thermosetting plastic case • **Finish:** Corrosion resistant finish, easily solderable • **Maximum case temperature for soldering purposes:** 260°C for 10 seconds

SOT-23

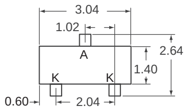

POWERMITE®

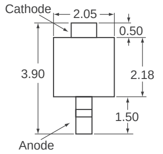

SOD-123FL

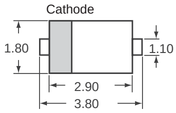

SMA

Dimensions in mm

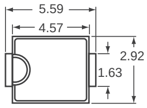

Package	Watts	Breakdown Voltage V_{BR} Minimum	Nominal	Maximum	V_{RWM} Minimum (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Tape and Reel * Size	Pricing
SOT-23	24	5.32	5.6	5.88	3	5	MMBZ5V6ALT1GOSCT-ND◊ ***NEW!***	2.14	13.91	24.08	3,000	50.00/M
	24	5.89	6.2	6.51	3	0.5	MMBZ6V2ALT1OSCT-ND	2.10	13.65	23.63	—	—
	24	5.89	6.2	6.51	3	0.5	MMBZ6V2ALT1GOSCT-ND◊ ***NEW!***	2.14	13.91	24.08	3,000	50.00/M
	40	14.25	15	15.75	12	.05	MMBZ15VALT1GOSCT-ND◊ ***NEW!***	2.14	13.91	24.08	3,000	50.00/M
	40	14.3	15	15.8	12.8	.1	MMBZ15VDLT1GOSCT-ND◊ ***NEW!***	2.14	13.91	24.08	3,000	50.00/M
	40	19.00	20	21.00	17	.05	MMBZ20VALT1OSCT-ND	2.10	13.65	23.63	3,000	49.00/M
	40	19.00	20	21.00	17	.05	MMBZ20VALT1GOSCT-ND◊ ***NEW!***	2.14	13.91	24.08	3,000	50.00/M
	40	25.65	27	28.35	22	.05	MMBZ27VCLT1GOSCT-ND◊ ***NEW!***	2.14	13.91	24.08	3,000	50.00/M
POWERMITE	200	6.4	6.7	7.0	5	800	1PMT5.0AT1OSCT-ND	4.20	30.24	56.70	3,000	143.00/M
	200	6.4	6.7	7.0	5	800	1PMT5.0AT1GOSCT-ND◊ ***NEW!***	4.27	30.74	57.65	3,000	145.00/M
	200	13.3	14.0	14.7	12	5.0	1PMT12AT1OSCT-ND	3.36	25.20	50.40	3,000	143.00/M
	200	13.3	14.0	14.7	12	5.0	1PMT12AT1GOSCT-ND◊ ***NEW!***	4.27	30.74	57.65	3,000	145.00/M
	200	17.8	18.75	19.7	16	5.0	1PMT16AT1OSCT-ND	4.20	30.24	56.70	3,000	143.00/M
	200	17.8	18.75	19.7	16	5.0	1PMT16AT1GOSCT-ND◊ ***NEW!***	4.27	30.74	57.65	3,000	145.00/M
SOD-123FL	200	6.4	6.7	7.0	5	400	SMF5.0AT1GOSCT-ND◊ ***NEW!***	5.40	40.50	86.25	3,000	214.00/M
	200	17.8	18.75	19.7	16	1.0	SMF16AT1OSCT-ND	5.40	40.50	86.25	—	—
	200	17.8	18.75	19.7	16	1.0	SMF16AT1GOSCT-ND◊ ***NEW!***	5.40	40.50	86.25	—	—
	200	36.7	38.7	40.6	33	1.0	SMF33AT1OSCT-ND	5.40	40.50	86.25	—	—
	200	36.7	38.7	40.6	33	1.0	SMF33AT1GOSCT-ND◊ ***NEW!***	5.40	40.50	86.25	3,000	214.00/M
Uni-Directional												
SMA	400	6.4	6.7	7.0	5	400	1SMA5.0AT3OSCT-ND	3.50	25.20	47.25	5,000	112.00/M
	400	6.4	6.7	7.0	5	400	1SMA5.0AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	5,000	114.00/M
	400	36.7	38.65	40.6	33	2.5	1SMA33AT3OSCT-ND	7.67	57.51	122.48	5,000	95.00/M
	400	36.7	38.65	40.6	33	2.5	1SMA33AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	5,000	114.00/M
Bi-Directional												
SMA	400	11.1	11.69	12.27	10	2.5	1SMA10CAT3OSCT-ND	4.16	29.92	56.09	5,000	133.00/M
	400	16.7	17.58	18.46	15	2.5	1SMA15CAT3OSCT-ND	4.05	29.12	54.61	—	—
	400	16.7	17.58	18.46	15	2.5	1SMA15CAT3GOSCT-ND◊ ***NEW!***	4.16	29.92	56.09	5,000	133.00/M
	400	36.7	38.63	40.56	33	2.5	1SMA33CAT3OSCT-ND	4.05	29.12	54.61	—	—
	400	36.7	38.63	40.56	33	2.5	1SMA33CAT3GOSCT-ND◊ ***NEW!***	4.16	29.92	56.09	5,000	133.00/M

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Axial

Specifications: **Mini-MOSORB:** • Working Peak Reverse voltage Range — 5V to 170V • Peak Power — 500 Watts @ 1ms • Low Leakage < 1µA above 8.5V • Response Time is Typically < 1ns **Surmetic:** • Peak Power — 600 Watts @ 1ms • Low Leakage <5µA above 10V • Response Time is Typically <5µA 1ns **Mechanical Characteristics**: • **Case**: Thermosetting plastic • **Finish**: Corrosion resistant • **Polarity**: Cathode indicated by polarity band • **Mounting Position**: Any

Mini-MOSORB

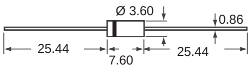

Surmetic

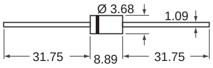

Dimensions in mm

Package	Watts	Breakdown Voltage V_{BR} Minimum	Nominal	Maximum	V_{RWM} Minimum (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Pricing 1	10	100	250	Tape and Reel* Size	Pricing
Uni-Directional													
Mini-MOSORB	500	6.4	6.7	7	5	600	SA5.0AOS-ND	.53	4.09	29.41	—	—	—
		11.1	11.7	12.3	10	1	SA10AOS-ND	.53	4.09	29.41	—	—	—
		13.3	14	14.7	12	1	SA12AOS-ND	.54	4.16	29.92	—	—	—
		13.3	14	14.7	12	1	SA12AGOS-ND◊ ***NEW!***	.54	4.16	29.92	56.09	—	—
		16.7	17.6	18.5	15	1	SA15AOS-ND	.53	4.09	29.41	—	—	—
		56.7	59.7	62.7	51	1	SA51AOS-ND	.53	4.09	29.41	—	—	—
Surmetic	600	9.5	10	10.5	8.55	10	P6KE10AOS-ND	.47	3.74	28.02	56.04	—	—
		11.4	12	12.6	10.2	5	P6KE12AOS-ND	.49	3.76	27.04	50.69	—	—
		14.3	15	15.8	12.8	5	P6KE15AOS-ND	.49	3.76	27.04	50.69	—	—
		14.3	15	15.8	12.8	5	P6KE15AGOS-ND◊ ***NEW!***	.50	3.86	27.76	52.04	—	—
		17.1	18	18.9	15.3	5	P6KE18ARLOSCT-ND	—	3.76	27.04	50.69	4,000	128.00/M
		19	20	21	17.1	5	P6KE20AOS-ND	.49	3.76	27.04	50.69	—	—
		22.8	24	25.2	20.5	5	P6KE24AOS-ND	.49	3.76	27.04	50.69	—	—
		28.5	30	31.5	25.6	5	P6KE30AOS-ND	.49	3.76	27.04	50.69	—	—
		31.4	33	34.7	28.2	5	P6KE33ARLOSCT-ND	—	3.76	27.04	50.69	—	—
		37.1	39	41	33.3	5	P6KE39AOS-ND	.49	3.76	27.04	50.69	—	—
		95	100	105	85.5	5	P6KE100AOS-ND	.47	3.74	28.02	56.04	—	—

* For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Transient Voltage Suppressors

Transil™ Series

RoHS Compliant Parts Available

Dimensions in mm

DO-201, R6, CB429

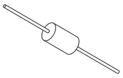

DO-15

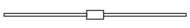

SMA

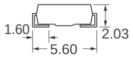

SMB

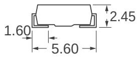

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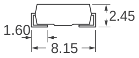

SOT-23

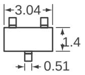

8-SOIC

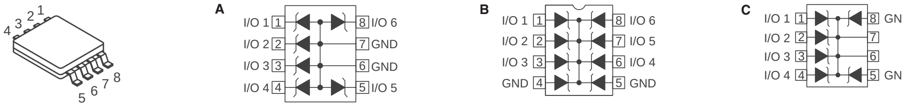

Flip Chip

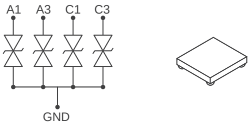

SOT23-6 ***NEW!***

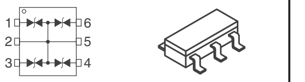

SOT-665

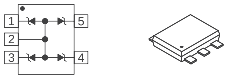

SOT-666IP

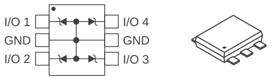

Package	Pw (W)	Breakdown Voltage			VRM (V)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel		STMicroelectronics Part No.
		Minimum	Nominal	Maximum			1	10	100		Size	Pricing	
Bi-Directional													
DO-201	1500	380	400	420	342	497-2909-1-ND	1.65	14.30	110.00	497-2909-3-ND*	600	298.80	1.5KE400CA
R6	400	53.2	—	—	47.8	497-4188-1-ND	.39	3.00	21.60	497-4188-2-ND	6,000	96.00/M	BZW04-48RL
DO-15	600	44.7	47	49.4	40.2	497-4288-1-ND	.55	4.25	30.60	497-4288-2-ND	6,000	136.00/M	P6KE47CARL
		143	150	158	128	497-4285-1-ND	.50	4.00	30.00	497-4285-2-ND	6,000	140.00/M	P6KE150CARL
		237	250	263	213	497-4619-1-ND	.50	4.00	30.00	497-4619-2-ND	6,000	140.00/M	P6KE250CARL
SMA	400	13.3	—	—	12	497-2996-1-ND	.68	5.40	40.50	497-2996-2-ND	5,000	203.00/M	SMAJ12CA-TR
		16.7	—	—	15	497-2997-1-ND	.50	4.00	30.00	497-2997-2-ND	5,000	140.00/M	SMAJ15CA-TR
		31.1	—	—	28	497-4620-1-ND	.60	4.80	36.00	497-4620-2-ND	5,000	168.00/M	SMAJ28CA-TR
		36.7	—	—	33	497-2998-1-ND	.65	5.00	36.00	497-2998-2-ND	5,000	160.00/M	SMAJ33CA-TR
		44.4	—	—	40	497-3718-1-ND	.55	4.25	30.60	497-3718-2-ND	5,000	136.00/M	SMAJ40CA-TR
		77.8	—	—	70	497-4291-1-ND	.50	4.00	30.00	497-4291-2-ND	5,000	140.00/M	SMAJ70CA-TR
SMB	600	—	—	35	22	497-3719-1-ND	1.08	7.80	60.00	497-3719-2-ND	2,500	342.00/M	SMP100-LC-25
		—	—	15	6	497-3721-1-ND	1.43	12.35	95.00	497-3721-2-ND	2,500	505.00/M	SMP75-8
		—	—	15	6	497-3720-1-ND	1.31	11.38	87.50	497-3720-2-ND	2,500	466.00/M	SMP100-LC-8
		—	—	133	90	497-3722-1-ND	.95	7.56	56.70	497-3722-2-ND	2,500	299.00/M	SMTPA100
		—	—	240	162	497-3723-1-ND	.86	6.84	51.30	497-3723-2-ND	2,500	271.00/M	SMTPA180
	600	—	—	360	243	497-3724-1-ND	.99	7.92	55.00	497-3724-2-ND	2,500	314.00/M	SMTPA270
		6.45	6.8	7.14	5.8	497-2995-1-ND	.55	3.96	29.70	497-2995-2-ND	2,500	165.00/M	SM6T6V8CA
		14.3	15	15.8	12.8	497-2994-1-ND	.55	4.40	33.00	497-2994-2-ND	2,500	165.00/M	SM6T15CA
		17.1	18	18.9	15.3	497-3717-1-ND	.55	4.40	33.00	497-3717-2-ND	2,500	165.00/M	SM6T18CA
		20.9	22	23.1	18.8	497-3507-1-ND	1.08	8.64	64.80	497-3507-2-ND	2,500	342.00/M	SM6T22CA
SMC	1500	20	—	—	18	497-4295-1-ND	.90	7.20	54.00	497-4295-2-ND	2,500	285.00/M	SMCJ18CA-TR
8-SOIC A	300	6.51	—	—	5.0	497-3407-1-ND	1.98	16.50	138.60	497-3407-2-ND	2,500	858.00/M	ITA6V1U1RL
8-SOIC B	150	25	—	30	24	497-2488-1-ND	1.43	12.35	95.00	497-2488-2-ND	2,500	505.00/M	ESDA25B1RL
8-SOIC C	300	6.5	—	—	5.0	497-3408-1-ND	1.98	16.50	138.60	497-3408-2-ND	2,500	858.00/M	ITA6V5B1RL
		18	—	—	15	497-3405-1-ND	1.98	16.50	138.60	497-3405-2-ND	2,500	858.00/M	ITA18B1RL
		25	—	—	24	497-2686-5-ND‡	1.98	16.50	138.60	—	—	—	ITA25B1
		25	—	—	24	497-3406-1-ND	1.98	16.50	138.60	497-3406-2-ND	2,500	858.00/M	ITA25B1RL
Flip Chip	50	14.2	—	18	12	497-3784-1-ND	.68	5.40	40.50	497-3784-2-ND	5,000	203.00/M	ESDA14V2-4BF2
SOT23-6	80	6.1	—	8	3.0	497-4643-1-ND ***NEW!***	.60	4.80	36.00	497-4643-2-ND ***NEW!***	3,000	180.00/M	ESDA6V1-4BC6
Uni-Directional													
CB429	1500	6.45	6.8	7.14	5.8	497-3751-1-ND	.79	6.30	47.25	497-3751-3-ND*	600	194.40	1.5KE6V8A
DO-201	1500	209	220	231	188	497-4611-1-ND	.65	5.20	39.00	497-4611-2-ND	1,900	208.00/M	1.5KE220ARL
R6	5000	16.6	—	—	15	497-4189-1-ND	2.10	17.50	147.00	497-4189-2-ND	1,000	945.00	BZW50-15RL
		200	—	—	180	497-4612-1-ND	2.40	20.00	168.00	497-4612-2-ND	1,000	1080.00	BZW50-180RL
DO-15	600	31.4	33	24.7	28.2	497-4287-1-ND	.50	4.00	30.00	497-4287-2-ND	6,000	140.00/M	P6KE33ARL
		237	250	263	213	497-4286-1-ND	.50	4.00	30.00	497-4286-2-ND	6,000	140.00/M	P6KE250ARL
SOT-23	300	6.1	—	7.2	5.25	497-2930-1-ND	.55	4.40	33.00	497-2930-2-ND	3,000	165.00/M	ESDA6V1L
		25	—	30	24	497-4642-1-ND ***NEW!***	.50	4.00	30.00	497-4642-2-ND ***NEW!***	3,000	150.00/M	ESDA25L
SMA	400	6.4	—	—	5.0	497-2999-1-ND	.55	3.40	25.50	497-2999-2-ND	5,000	136.00/M	SMAJ5.0A-TR
		47.8	—	—	43	497-4290-1-ND	.50	4.00	30.00	497-4290-2-ND	5,000	140.00/M	SMAJ43A-TR
		64.4	—	—	58	497-3508-1-ND	.65	5.20	39.00	497-3508-2-ND	5,000	182.00/M	SMAJ58A-TR
		111	—	—	100	497-4289-1-ND	.50	4.00	30.00	497-4289-2-ND	5,000	140.00/M	SMAJ100A-TR
SMB	600	28.5	30	31.5	25.6	497-3506-1-ND	1.13	9.75	75.00	497-3506-2-ND	2,500	399.00/M	SM6HT30A
SMC	1500	6.7	—	—	6.0	497-4296-1-ND	.90	7.20	54.00	497-4296-2-ND	2,500	285.00/M	SMCJ6.0A-TR
		11.4	12	12.6	10.2	497-3715-1-ND	1.39	12.03	92.50	497-3715-2-ND	2,500	492.00/M	SM15T12A
		37.1	39	41.0	33.3	497-3716-1-ND	.95	7.56	56.70	497-3716-2-ND	2,500	299.00/M	SM15T39A
8-SOIC A	200	6.1	—	7.2	5.0	497-3403-5-ND‡	1.24	10.73	82.50	—	—	—	ESDA6V1U1
		6.1	—	7.2	5.0	497-3711-1-ND	1.05	9.10	70.00	497-3711-2-ND	2,500	372.00/M	ESDA6V1U1RL
SOT-665	30	6.1	—	7.2	3.0	497-3785-1-ND	.60	4.80	36.00	497-3785-2-ND	3,000	180.00/M	ESDALC6V1P5
SOT-666IP	30	6.1	—	7.2	3.0	497-3404-1-ND	.65	5.20	39.00	497-3404-2-ND	3,000	195.00/M	ESDALC6V1P6

* Tape and Box ‡ Tube

(Continued)

Transient Surge Arrestors - Trisil™ Series - SMB Package

RoHS Compliant Parts Available

V_{BR} @ I_R Maximum (V)	(μA)	I_{RM} @ V_{RM} Maximum (μA)	(V)	Dynamic V_{BO} Maximum (V)	I_{PP} @ 10/1000μs	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,500	STMicroelectronics Part No.
35	5	2	32	55	100	497-4093-1-ND	.98	8.45	65.00	497-4093-2-ND	346.00/M	SMP100LC-35
65	5	2	55	85	100	497-4096-1-ND	.98	8.45	65.00	497-4096-2-ND	346.00/M	SMP100LC-65
90	5	2	81	120	100	497-4097-1-ND	.98	8.45	65.00	497-4097-2-ND	346.00/M	SMP100LC-90
120	5	2	108	155	100	497-4087-1-ND	1.08	8.64	64.80	497-4087-2-ND	342.00/M	SMP100LC-120
140	5	2	126	180	100	497-4088-1-ND	1.08	8.64	64.80	497-4088-2-ND	342.00/M	SMP100LC-140
160	5	2	144	205	100	497-4089-1-ND	1.08	8.64	64.80	497-4089-2-ND	342.00/M	SMP100LC-160
200	5	2	180	255	100	497-4090-1-ND	1.08	8.64	64.80	497-4090-2-ND	342.00/M	SMP100LC-200
230	5	2	207	295	100	497-4091-1-ND	1.08	8.64	64.80	497-4091-2-ND	342.00/M	SMP100LC-230
270	5	2	243	345	100	497-4092-1-ND	1.08	8.64	64.80	497-4092-2-ND	342.00/M	SMP100LC-270
320	5	2	290	400	100	497-4297-1-ND	1.08	8.64	64.80	497-4297-2-ND	342.00/M	SMP100LC-320
360	5	2	325	460	100	497-4094-1-ND	.90	7.80	60.00	497-4094-2-ND	319.00/M	SMP100LC-360
400	5	2	360	540	100	497-4095-1-ND	1.08	8.64	64.80	497-4095-2-ND	319.00/M	SMP100LC-400
160	5	2	144	205	100	497-4298-1-ND	1.08	8.64	64.80	497-4298-2-ND	342.00/M	SMP100MC-160
200	5	2	180	255	100	497-4299-1-ND	1.08	8.64	64.80	497-4299-2-ND	342.00/M	SMP100MC-200
230	5	2	207	295	100	497-4300-1-ND	1.08	8.64	64.80	497-4300-2-ND	342.00/M	SMP100MC-230
270	5	2	243	345	100	497-4301-1-ND	1.08	8.64	64.80	497-4301-2-ND	342.00/M	SMP100MC-270
320	5	2	290	400	100	497-4999-1-ND ***NEW!***	.94	8.13	62.50	497-4999-2-ND ***NEW!***	333.00/M	SMP100MC-320
360	5	2	325	460	100	497-5000-1-ND ***NEW!***	.94	8.13	62.50	497-5000-2-ND ***NEW!***	333.00/M	SMP100MC-360
400	5	2	360	540	100	497-5001-1-ND ***NEW!***	.90	7.20	54.00	497-5001-2-ND ***NEW!***	285.00/M	SMP100MC-400
120	5	2	108	155	80	497-4783-1-ND ***NEW!***	.79	6.34	47.52	497-4783-2-ND ***NEW!***	251.00/M	SMP80MC-120
140	5	2	126	180	80	497-4782-1-ND ***NEW!***	.79	6.34	47.52	497-4782-2-ND ***NEW!***	251.00/M	SMP80MC-140
160	5	2	144	205	80	497-4766-1-ND ***NEW!***	.79	6.34	47.52	497-4766-2-ND ***NEW!***	251.00/M	SMP80MC-160
200	5	2	180	255	80	497-4781-1-ND ***NEW!***	.79	6.34	47.52	497-4781-2-ND ***NEW!***	251.00/M	SMP80MC-200
230	5	2	207	295	80	497-4780-1-ND ***NEW!***	.79	6.34	47.52	497-4780-2-ND ***NEW!***	251.00/M	SMP80MC-230
270	5	2	243	345	80	497-4302-1-ND	1.08	8.64	64.80	497-4302-2-ND	342.00/M	SMP80MC-270

Transient Voltage Suppressors

RoHS Compliant Parts Available

Package	Pw (W)	V_{BR} @ I_R Minimum (V)	(mA)	I_{RM} @ V_{RM} Maximum (μA)	(V)	V_{CL} @ I_{PP} 10/1000μs Max. (V)	(A)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
								Bi-Directional							
SMB	600	6.4	10	800	5.0	9.2	68	497-3145-1-ND	.99	7.92	59.40	497-3145-2-ND	2,500	314.00/M	SMBJ5.0CA-TR
		7.2	10	500	6.5	11.2	56	497-3146-1-ND	.99	7.92	59.40	497-3146-2-ND	2,500	314.00/M	SMBJ6.5CA-TR
		11.1	1	5	10	17	37	497-3000-1-ND	.99	7.92	59.40	497-3000-2-ND	2,500	314.00/M	SMBJ10CA-TR
		13.3	1	5	12	19.9	31	497-3002-1-ND	.55	4.25	30.60	497-3002-2-ND	2,500	145.00/M	SMBJ12CA-TR
		16.7	1	1	15	24.4	25.1	497-3004-1-ND	.55	4.25	30.60	497-3004-2-ND	2,500	145.00/M	SMBJ15CA-TR
SMB	600	26.7	1	1	24	38.9	16	497-3141-1-ND	.55	4.25	30.60	497-3141-2-ND	2,500	145.00/M	SMBJ24CA-TR
		33.3	1	1	30	48.4	13	497-3142-1-ND	.48	3.42	25.65	497-3142-2-ND	2,500	143.00/M	SMBJ30CA-TR
		36.7	1	1	33	53.3	11.8	497-3005-1-ND	.55	4.25	30.60	497-3005-2-ND	2,500	145.00/M	SMBJ33CA-TR
		64.4	1	1	58	93.6	6.7	497-3143-1-ND	.55	4.25	30.60	497-3143-2-ND	2,500	145.00/M	SMBJ58CA-TR
		77.8	1	1	70	113	5.5	497-3770-1-ND	.50	4.00	30.00	497-3770-2-ND	2,500	150.00/M	SMBJ70CA-TR
								Uni-Directional							
SMB	600	6.4	10	800	5.0	9.2	68	497-3144-1-ND	.55	4.25	30.60	497-3144-2-ND	2,500	145.00/M	SMBJ5.0A-TR
		6.7	10	800	6.0	10.3	61	497-3006-1-ND	.65	5.00	36.00	497-3006-2-ND	2,500	170.00/M	SMBJ6.0A-TR
		7.2	10	500	6.5	11.2	56	497-3007-1-ND	.65	5.00	36.00	497-3007-2-ND	2,500	170.00/M	SMBJ6.5A-TR
		13.3	1	5	12	19.9	31	497-3001-1-ND	.65	5.00	36.00	497-3001-2-ND	2,500	170.00/M	SMBJ12A-TR
		16.7	1	1	15	24.4	25.1	497-3003-1-ND	.65	5.00	36.00	497-3003-2-ND	2,500	170.00/M	SMBJ15A-TR
SMB	600	17.8	1	1	16	26	23.1	497-4293-1-ND	.50	4.00	30.00	497-4293-2-ND	2,500	150.00/M	SMBJ16A-TR
		20	1	1	18	29.2	21.5	497-3139-1-ND	.45	3.60	27.00	497-3139-2-ND	2,500	170.00/M	SMBJ18A-TR
		26.7	1	1	24	38.9	16	497-3140-1-ND	.45	3.60	27.00	497-3140-2-ND	2,500	170.00/M	SMBJ24A-TR
		77.8	1	1	70	113	5.5	497-4294-1-ND	.50	4.00	30.00	497-4294-2-ND	2,500	150.00/M	SMBJ70A-TR
		171	1	1	154	246	2.4	497-4292-1-ND	.50	4.00	30.00	497-4292-2-ND	2,500	150.00/M	SMBJ154A-TR
	1500	22	1	1	20	33.2	45	497-4991-1-ND ***NEW!***	.70	5.60	42.00	497-4991-2-ND ***NEW!***	2,500	210.00/M	LNBTVS3-220U
SMC	1800	22	1	1	20	33.2	55	497-4993-1-ND ***NEW!***	.72	5.76	43.20	497-4993-2-ND ***NEW!***	2,500	228.00/M	LNBTVS4-220S
	2000	22	1	1	20	33.2	60	497-4995-1-ND ***NEW!***	.99	7.92	59.40	497-4995-2-ND ***NEW!***	2,500	314.00/M	LNBTVS4-221S
	3000	22	1	1	20	33.2	90	497-4996-1-ND ***NEW!***	.98	8.45	65.00	497-4996-2-ND ***NEW!***	2,500	346.00/M	LNBTVS4-222S
	2000	22	1	1	20	33.2	90	497-4997-1-ND ***NEW!***	.94	8.13	62.50	497-4997-2-ND ***NEW!***	2,500	333.00/M	LNBTVS6-220S
	3000	22	1	1	20	33.2	90	497-4998-1-ND ***NEW!***	1.13	9.75	75.00	497-4998-2-ND ***NEW!***	2,500	399.00/M	LNBTVS6-221S
DO-201	1500	22	1	1	20	33.2	45	497-4990-1-ND ***NEW!***	.55	4.40	33.00	497-4990-3-ND* ***NEW!***	600	125.40	LNBTVS3-220
	1800	22	1	1	20	33.2	55	497-4992-1-ND ***NEW!***	.72	5.76	43.20	497-4992-3-ND* ***NEW!***	600	177.60	LNBTVS4-220
	2000	22	1	1	20	33.2	60	497-4994-1-ND ***NEW!***	.90	7.20	54.00	497-4994-3-ND* ***NEW!***	600	222.00	LNBTVS4-221

* Tape and Box

Application Specific TVS

8-SOIC

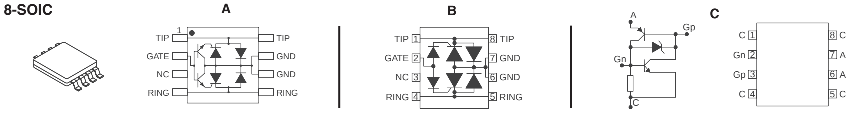

8-SOIC Wide

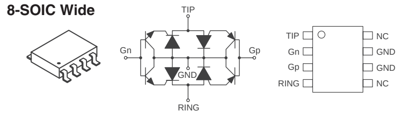

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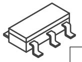

	Rs	Rp	C
Code 01 Tolerance	39Ω ±10%	4.7kΩ ±10%	120pF ±20%

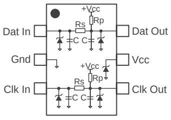

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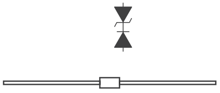

D^{2}PAK

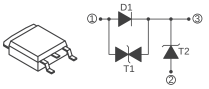

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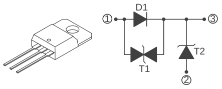

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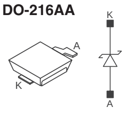

Package	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	STMicroelectronics Part No.
8-SOIC A	Programmable TVS for SLIC Protection	497-3781-1-ND	1.05	.91	.70	497-3781-2-ND	2,500	372.00/M	LCP1521SRL
8-SOIC B	Programmable TVS for SLIC Protection	497-2458-1-ND	1.59	1.33	1.12	497-2458-2-ND	2,500	689.00/M	LCP1511DRL
8-SOIC C	Overvoltage and Overcurrent Protection for Telecom Line	497-3780-1-ND	2.04	1.70	1.43	497-3780-2-ND	2,500	884.00/M	LCP3121RL
8-SOIC Wide	Protection IC for Ringing SLICS	497-2558-5-ND‡	2.70	2.35	1.75	—	—	—	LCP02-150B1
SOT23-6	EMI Filter and Line Termination for PS/2 Mouse or Keyboard Ports	497-3712-1-ND	1.73	1.50	1.15	497-3712-2-ND	3,000	667.00/M	KBMF01SC6
DO-15	TVS 160V/700V	497-3138-1-ND	.90	.72	.54	497-3138-3-ND*	1,000	310.00	PKC-136
D^{2}PAK	Reversed Battery and Overvoltage Protection	497-2554-5-ND‡	2.70	2.25	1.89	—	—	—	RB040-40G
	Reversed Battery and Overvoltage Protection	497-3714-1-ND	2.70	2.25	1.89	497-3714-2-ND	1,000	1215.00	RB040-40G-TR
TO220-AB	Reversed Battery and Overvoltage Protection	497-2550-5-ND‡	2.25	1.88	1.58	—	—	—	RB040-40T
DO-216AA	Low Forward Voltage TVS: Transky™	497-3509-1-ND	.94	.82	.63	497-3509-2-ND	12,000	313.00/M	SMTY18AM

* Ammo Pack ‡ Tube

Transient Voltage Suppressors

600 Watt SMB Surface Mount TVS

Dimensions in mm

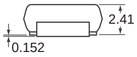

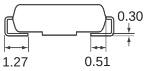

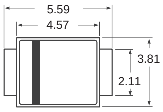

Specification Features: • Peak Power — 600 Watts @ 1ms • Low Leakage < 5µA above 10V • Response Time is Typically < 1ns

Mechanical Characteristics: • **Case**: Thermosetting plastic • **Finish**: Corrosion resistant • **Mounting Position**: Any • **Bi-Directional**: Polarity band will not be indicated • **Uni-Directional**: Cathode indicated by polarity band.

Breakdown Voltage V_{BR} Min.	Nom.	Max.	V_{RWM} Min. (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Digi-Key Part No.	Tape and Reel Pricing 2,500
					600 Watts, Bi-Directional					
10.5	11	11.6	9.4	5	P6SMB11CAT3OSCT-ND	4.33	31.18	58.46	—	—
11.1	11.69	12.27	10	5	1SMB10CAT3OSCT-ND	4.33	31.18	58.46	—	—
11.1	11.69	12.27	10	5	1SMB10CAT3GOSCT-ND◊ ***NEW!***	4.45	32.04	60.08	1SMB10CAT3GOSTR-ND◊ ***NEW!***	151.00/M
13.3	14.00	14.7	12	5	1SMB12CAT3OSCT-ND	4.33	31.18	58.46	—	—
13.3	14.00	14.7	12	5	1SMB12CAT3GOSCT-ND◊ ***NEW!***	4.45	32.04	60.08	1SMB12CAT3GOSTR-ND◊ ***NEW!***	151.00/M
14.3	15	15.8	12.8	5	P6SMB15CAT3OSCT-ND	4.33	31.18	58.46	—	—
16.7	17.58	18.5	15	5	1SMB15CAT3GOSCT-ND◊ ***NEW!***	4.45	32.04	60.08	1SMB15CAT3GOSTR-ND◊ ***NEW!***	151.00/M
17.8	18.74	19.7	16	5	1SMB16CAT3OSCT-ND	4.33	31.18	58.46	—	—
17.8	18.74	19.7	16	5	1SMB16CAT3GOSCT-ND◊ ***NEW!***	4.45	32.04	60.08	1SMB16CAT3GOSTR-ND◊ ***NEW!***	151.00/M
20.0	21.06	22.1	18	5	1SMB18CAT3GOSCT-ND◊ ***NEW!***	4.45	32.04	60.08	1SMB18CAT3GOSTR-ND◊ ***NEW!***	151.00/M
22.2	23.37	24.5	20	5	1SMB20CAT3GOSCT-ND◊ ***NEW!***	4.45	32.04	60.08	1SMB20CAT3GOSTR-ND◊ ***NEW!***	151.00/M
26.7	28.11	29.5	24	5	1SMB24CAT3OSCT-ND	4.33	31.18	58.46	—	—
26.7	28.11	29.5	24	5	1SMB24CAT3GOSCT-ND◊ ***NEW!***	4.45	32.04	60.08	1SMB24CAT3GOSTR-ND◊ ***NEW!***	151.00/M
33.3	35.06	36.8	30	5	1SMB30CAT3GOSCT-ND◊ ***NEW!***	4.45	32.04	60.08	1SMB30CAT3GOSTR-ND◊ ***NEW!***	151.00/M
34.2	36	37.8	30.8	5	P6SMB36CAT3OSCT-ND	4.33	31.18	58.46	—	—
40.0	42.11	44.2	36	5	1SMB36CAT3OSCT-ND	4.33	31.18	58.46	—	—
40.0	42.11	44.2	36	5	1SMB36CAT3GOSCT-ND◊ ***NEW!***	4.45	32.04	60.08	1SMB36CAT3GOSTR-ND◊ ***NEW!***	151.00/M
					600 Watts, Uni-Directional					
6.40	6.7	7.0	5.0	800	1SMB5.0AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	SMB5.0AT3GOSTR-ND◊ ***NEW!***	121.00/M
6.45	6.8	7.14	5.8	5	P6SMB6.8AT3GOSCT-ND◊ ***NEW!***	4.24	30.53	57.24	P6SMB6.8AT3GOSTR-ND◊ ***NEW!***	144.00/M
6.67	7.02	7.37	6.0	800	1SMB6.0AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB6.0AT3GOSTR-ND◊ ***NEW!***	121.00/M
7.22	7.6	7.98	6.5	500	1SMB6.5AT3OSCT-ND	2.80	21.00	42.00	—	—
7.22	7.6	7.98	6.5	500	1SMB6.5AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB6.5AT3GOSTR-ND◊ ***NEW!***	121.00/M
7.78	8.19	8.6	7.0	500	1SMB7.0AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB7.0AT3GOSTR-ND◊ ***NEW!***	121.00/M
9.44	9.92	10.4	8.5	10	1SMB8.5AT3OSCT-ND	2.80	21.00	42.00	—	—
9.44	9.92	10.4	8.5	10	1SMB8.5AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB8.5AT3GOSTR-ND◊ ***NEW!***	121.00/M
11.1	11.7	12.3	10	5	1SMB10AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB10AT3GOSTR-ND◊ ***NEW!***	121.00/M
13.3	14	14.7	12	5	1SMB12AT3OSCT-ND	2.80	21.00	42.00	1SMB12AT3OSTR-ND	119.00/M
13.3	14	14.7	12	5	1SMB12AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB12AT3GOSTR-ND◊ ***NEW!***	121.00/M
14.3	15	15.8	12.8	5	P6SMB15AT3GOSCT-ND◊ ***NEW!***	4.24	30.53	57.24	P6SMB15AT3GOSTR-ND◊ ***NEW!***	144.00/M
14.4	15.15	15.9	13	5	1SMB13AT3OSCT-ND	2.80	21.00	42.00	—	—
14.4	15.15	15.9	13	5	1SMB13AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB13AT3GOSTR-ND◊ ***NEW!***	121.00/M
15.2	16	16.8	13.6	5	P6SMB16AT3OSCT-ND	4.24	30.53	57.24	P6SMB16AT3OSTR-ND	128.00/M
16.7	17.6	18.5	15	5	1SMB15AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB15AT3GOSTR-ND◊ ***NEW!***	121.00/M
17.8	18.75	19.7	16	5	1SMB16AT3OSCT-ND	2.80	21.00	42.00	1SMB16AT3OSTR-ND	119.00/M
17.8	18.75	19.7	16	5	1SMB16AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB16AT3GOSTR-ND◊ ***NEW!***	121.00/M
19	20	21	17.1	5	P6SMB20AT3OSCT-ND	4.24	30.53	57.24	P6SMB20AT3OSTR-ND	129.00/M
20.0	21.05	22.1	18	5	1SMB18AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB18AT3GOSTR-ND◊ ***NEW!***	121.00/M
22.2	23.35	24.5	20	5	1SMB20AT3OSCT-ND	2.80	21.00	42.00	—	—
22.2	23.35	24.5	20	5	1SMB20AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB20AT3GOSTR-ND◊ ***NEW!***	121.00/M
24.4	25.65	26.9	22	5	1SMB22AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB22AT3GOSTR-ND◊ ***NEW!***	121.00/M
26.7	28.1	29.5	24	5	1SMB24AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB24AT3GOSTR-ND◊ ***NEW!***	121.00/M
28.9	30.4	31.9	26	5	1SMB26AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB26AT3GOSTR-ND◊ ***NEW!***	121.00/M
31.1	32.75	34.4	28	5	1SMB28AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB28AT3GOSTR-ND◊ ***NEW!***	121.00/M
33.3	35.05	36.8	30	5	1SMB30AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB30AT3GOSTR-ND◊ ***NEW!***	121.00/M
34.2	36	37.8	30.8	5	P6SMB36AT3GOSCT-ND◊ ***NEW!***	4.24	30.53	57.24	P6SMB36AT3GOSTR-ND◊ ***NEW!***	144.00/M
36.7	38.65	40.6	33	5	1SMB33AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB33AT3GOSTR-ND◊ ***NEW!***	121.00/M
40.0	42.1	44.2	36	5	1SMB36AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB36AT3GOSTR-ND◊ ***NEW!***	121.00/M
44.4	46.75	49.1	40	5	1SMB40AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB40AT3GOSTR-ND◊ ***NEW!***	121.00/M
47.8	50.3	52.8	43	5	1SMB43AT3OSCT-ND	2.80	21.00	42.00	1SMB43AT3OSTR-ND	119.00/M
47.8	50.3	52.8	43	5	1SMB43AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB43AT3GOSTR-ND◊ ***NEW!***	121.00/M
56.7	59.7	62.7	51	5	1SMB51AT3OSCT-ND	2.80	21.00	42.00	1SMB51AT3OSTR-ND	119.00/M
56.7	59.7	62.7	51	5	1SMB51AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB51AT3GOSTR-ND◊ ***NEW!***	121.00/M
58.9	62	65.1	53	5	P6SMB62AT3OSCT-ND	4.24	30.53	57.24	—	—
64.4	67.8	71.2	58	5	1SMB58AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB58AT3GOSTR-ND◊ ***NEW!***	121.00/M
66.7	70.2	73.7	60	5	1SMB60AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB60AT3GOSTR-ND◊ ***NEW!***	121.00/M
77.8	81.9	86	70	5	1SMB70AT3OSCT-ND	2.80	21.00	42.00	—	—
77.8	81.9	86	70	5	1SMB70AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB70AT3GOSTR-ND◊ ***NEW!***	121.00/M
94.4	99.2	104	85	5	1SMB85AT3OSCT-ND	3.47	24.95	46.78	1SMB85AT3OSTR-ND	118.00/M
94.4	99.2	104	85	5	1SMB85AT3GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	1SMB85AT3GOSTR-ND◊ ***NEW!***	121.00/M
133	140	147	120	5	1SMB120AT3OSCT-ND	3.66	27.42	54.84	—	—
133	140	147	120	5	1SMB120AT3GOSCT-ND◊ ***NEW!***	3.66	27.42	54.84	1SMB120AT3GOSTR-ND◊ ***NEW!***	137.00/M
143	150	158	128	5	P6SMB150AT3OSCT-ND	3.66	27.42	54.84	—	—
152	160	168	136	5	P6SMB160AT3OSCT-ND	3.66	27.42	54.84	—	—
189	199	209	170	5	1SMB170AT3GOSCT-ND◊ ***NEW!***	3.66	27.42	54.84	1SMB170AT3GOSTR-ND◊ ***NEW!***	137.00/M
190	200	210	171	5	P6SMB200AT3OSCT-ND	3.66	27.42	54.84	—	—

◊ ***RoHS Compliant***

Transient Voltage Suppressors

1500 Watt SMC Surface Mount TVS - Uni-Directional

Dimensions in mm

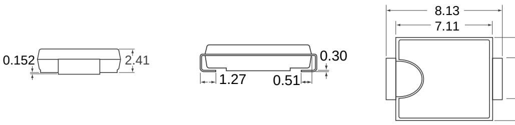

Specification Features: • Peak Power — 1500 W @ 1ms • Low Leakage <5µA Above 10V • Response Time is typically. <1ns
Mechanical Characteristics: • **Case**: Thermosetting plastic • **Finish**: Corrosion resistant • **Polarity**: Cathode indicated by molded polarity notch • **Mounting Position**: Any

Breakdown VoltageV_{RWM} V_{BR}			I_R @ Minimum (V)	V_{RWM} (µA)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape and Reel Pricing 2,500
Minimum	Nominal	Maximum				10	100	250		
					1,500 Watts, Uni-Directional					
6.4	6.7	7.0	5.0	1000	1SMC5.0AT3OSCT-ND	5.41	40.55	86.37	—	—
6.4	6.7	7.0	5.0	1000	1SMC5.0AT3GOSCT-ND◊ ***NEW!***	5.55	41.63	88.67	1SMC5.0AT3GOSTR-ND◊ ***NEW!***	220.00/M
6.67	7.02	7.37	6.0	1000	1SMC6.0AT3GOSCT-ND◊ ***NEW!***	5.55	41.63	88.67	1SMC6.0AT3GOSTR-ND◊ ***NEW!***	220.00/M
13.3	14	14.7	12	5	1SMC12AT3OSCT-ND	5.41	40.55	86.37	1SMC12AT3OSTR-ND	214.00/M
13.3	14	14.7	12	5	1SMC12AT3GOSCT-ND◊ ***NEW!***	5.55	41.63	88.67	1SMC12AT3GOSTR-ND◊ ***NEW!***	220.00/M
16.7	17.6	18.5	15	5	1SMC15AT3GOSCT-ND◊ ***NEW!***	5.55	41.63	88.67	1SMC15AT3GOSTR-ND◊ ***NEW!***	220.00/M
20	21.05	22.1	18	5	1SMC18AT3OSCT-ND	5.41	40.55	86.37	—	—
20	21.05	22.1	18	5	1SMC18AT3GOSCT-ND◊ ***NEW!***	5.55	41.63	88.67	1SMC18AT3GOSTR-ND◊ ***NEW!***	220.00/M
26.7	28.1	29.5	24	5	1SMC24AT3OSCT-ND	5.41	40.55	86.37	—	—
26.7	28.1	29.5	24	5	1SMC24AT3GOSCT-ND◊ ***NEW!***	5.55	41.63	88.67	1SMC24AT3GOSTR-ND◊ ***NEW!***	220.00/M
28.9	30.4	31.9	26	5	1SMC26AT3OSCT-ND	5.41	40.55	86.37	—	—
28.9	30.4	31.9	26	5	1SMC26AT3GOSCT-ND◊ ***NEW!***	5.55	41.63	88.67	1SMC26AT3GOSTR-ND◊ ***NEW!***	220.00/M
31.1	32.75	34.4	28	5	1SMC28AT3GOSCT-ND◊ ***NEW!***	5.55	41.63	88.67	1SMC28AT3GOSTR-ND◊ ***NEW!***	220.00/M
36.7	38.65	40.6	33	5	1SMC33AT3OSCT-ND	5.41	40.55	86.37	1SMC33AT3OSTR-ND	—
36.7	38.65	40.6	33	5	1SMC33AT3GOSCT-ND◊ ***NEW!***	5.55	41.63	88.67	1SMC33AT3GOSTR-ND◊ ***NEW!***	220.00/M
40	42.1	44.2	36	5	1SMC36AT3GOSCT-ND◊ ***NEW!***	5.55	41.63	88.67	1SMC36AT3GOSTR-ND◊ ***NEW!***	220.00/M
56.7	59.7	62.7	51	5	1SMC51AT3GOSCT-ND◊ ***NEW!***	5.55	41.63	88.67	1SMC51AT3GOSTR-ND◊ ***NEW!***	220.00/M
6.45	6.8	7.14	5.8	1000	1.5SMC6.8AT3OSCT-ND	5.61	42.09	89.64	1.5SMC6.8AT3OSTR-ND	—
6.45	6.8	7.14	5.8	1000	1.5SMC6.8AT3GOSCT-ND◊ ***NEW!***	5.77	43.25	92.12	1.5SMC6.8AT3GOSTR-ND◊ ***NEW!***	228.00/M
14.3	15	15.8	12.8	5	1.5SMC15AT3GOSCT-ND◊ ***NEW!***	5.77	43.25	92.12	1.5SMC15AT3GOSTR-ND◊ ***NEW!***	228.00/M
17.1	18	18.9	15.3	5	1.5SMC18AT3GOSCT-ND◊ ***NEW!***	5.77	43.25	92.12	1.5SMC18AT3GOSTR-ND◊ ***NEW!***	228.00/M
22.8	24	25.2	20.5	5	1.5SMC24AT3GOSCT-ND◊ ***NEW!***	5.77	43.25	92.12	1.5SMC24AT3GOSTR-ND◊ ***NEW!***	228.00/M
25.7	27	28.4	23.1	5	1.5SMC27AT3GOSCT-ND◊ ***NEW!***	5.77	43.25	92.12	1.5SMC27AT3GOSTR-ND◊ ***NEW!***	228.00/M
28.5	30	31.5	25.6	5	1.5SMC30AT3GOSCT-ND◊ ***NEW!***	5.77	43.25	92.12	1.5SMC30AT3GOSTR-ND◊ ***NEW!***	228.00/M
31.4	33	34.7	28.2	5	1.5SMC33AT3GOSCT-ND◊ ***NEW!***	5.77	43.25	92.12	1.5SMC33AT3GOSTR-ND◊ ***NEW!***	228.00/M
34.2	36	37.8	30.8	5	1.5SMC36AT3GOSCT-ND◊ ***NEW!***	5.77	43.25	92.12	1.5SMC36AT3GOSTR-ND◊ ***NEW!***	228.00/M
37.1	39	41	33.3	5	1.5SMC39AT3GOSCT-ND◊ ***NEW!***	5.77	43.25	92.12	1.5SMC39AT3GOSTR-ND◊ ***NEW!***	228.00/M
40.9	43	45.2	36.8	5	1.5SMC43AT3OSCT-ND	5.61	42.09	89.64	1.5SMC43AT3OSTR-ND	222.00/M
40.9	43	45.2	36.8	5	1.5SMC43AT3GOSCT-ND◊ ***NEW!***	5.77	43.25	92.12	1.5SMC43AT3GOSTR-ND◊ ***NEW!***	228.00/M

◊ RoHS Compliant

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1500 Watt Mosorb™ TVS

Dimensions in mm

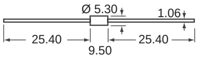

Specifications: • Maximum clamp voltage @ peak pulse current • Low leakage <5µA above 10V • Response time is typically < 1 ns
Mechanical Characteristics: • **Case:** Void-free, transfer-model, thermosetting plastic • **Finish:** All external surfaces are corrosion resistant and leads are readily solderable • **Maximum lead temperature for soldering purposes:** 230°C, 1/16" from case for 10 seconds • **Polarity:** Cathode indicated by polarity band • **Mounting Position:** Any

Breakdown Voltage V_{BR}			V_{RWM} Min. (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Pricing				Digi-Key Part No.	Tape and Reel Pricing 1,500
Min.	Nom.	Max.				1	10	100	250		
					1,500 Watts, 1.5KE Series						
6.45	6.8	7.14	5.8	1000	1.5KE6.8AOS-ND	.74	5.88	44.12	93.96	—	—
6.45	6.8	7.14	5.8	1000	1.5KE6.8AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
14.3	15	15.8	12.8	5	1.5KE15AOS-ND	.74	5.88	44.12	93.96	—	—
14.3	15	15.8	12.8	5	1.5KE15AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
15.2	16	16.8	13.6	5	1.5KE16AOS-ND	.74	5.88	44.12	93.96	—	—
15.2	16	16.8	13.6	5	1.5KE16AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
17.1	18	18.9	15.3	5	1.5KE18AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
19	20	21	17.1	5	1.5KE20AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
25.7	27	28.4	23.1	5	1.5KE27AOS-ND	.74	5.88	44.12	93.96	—	—
25.7	27	28.4	23.1	5	1.5KE27AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
28.5	30	31.5	25.6	5	1.5KE30AOS-ND	.74	5.88	44.12	93.96	—	—
28.5	30	31.5	25.6	5	1.5KE30AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
31.4	33	34.7	28.2	5	1.5KE33AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
34.2	36	37.8	30.8	5	1.5KE36ARL4OSCT-ND	—	5.59	41.90	89.24	—	—
34.2	36	37.8	30.8	5	1.5KE36ARL4GOSCT-ND◊ ***NEW!***	—	5.98	44.85	95.51	1.5KE36ARL4GOSTR-ND◊ ***NEW!***	257.00/M
37.1	39	41	33.3	5	1.5KE39ARL4GOSCT-ND◊ ***NEW!***	—	5.98	44.85	95.51	1.5KE39ARL4GOSTR-ND◊ ***NEW!***	257.00/M
40.9	43	45.2	36.8	5	1.5KE43AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
53.2	56	58.8	47.8	5	1.5KE56ARL4OSCT-ND	—	5.88	44.12	93.96	—	—
53.2	56	58.8	47.8	5	1.5KE56ARL4GOSCT-ND◊ ***NEW!***	—	5.98	44.85	95.51	1.5KE56ARL4GOSTR-ND◊ ***NEW!***	257.00/M
58.9	62	65.1	53	5	1.5KE62AOS-ND	.74	5.88	44.12	93.96	—	—
58.9	62	65.1	53	5	1.5KE62AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
64.6	68	71.4	58.1	5	1.5KE68AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
71.3	75	78.8	64.1	5	1.5KE75AOS-ND	.74	5.88	44.12	93.96	—	—
71.3	75	78.8	64.1	5	1.5KE75AGOS-ND◊ ***NEW!***	.75	5.98	44.85	95.51	—	—
190	200	210	171	5	1.5KE200AGOS-ND◊ ***NEW!***	1.31	11.38	87.50	183.75	—	—

◊ RoHS Compliant

(Continued)

1500 Watt Mosorb™ TVS *(Cont.)*

Breakdown Voltage V_{BR} Min.	Nom.	Max.	V_{RWM} Min. (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Pricing 1	10	100	250	Digi-Key Part No.	Tape and Reel Pricing 1,500
237	250	263	214	5	1.5KE250AOS-ND	1.58	12.60	94.50	201.25	—	—
237	250	263	214	5	1.5KE250AGOS-ND◊ ***NEW!***	1.31	11.38	87.50	183.75	—	—
					1,500 Watts, JEDEC Series						
6.0	—	—	5	300	1N6373RL4GOSCT-ND◊ ***NEW!***	—	6.19	46.44	98.90	1N6373RL4GOSTR-ND◊ ***NEW!***	267.00/M
6.0	—	—	5	300	ICTE-5RL4OSCT-ND	—	9.36	70.20	149.50	—	—
6.0	—	—	5	300	ICTE-5RL4GOSCT-ND◊ ***NEW!***	—	8.45	65.00	136.50	ICTE-5RL4GOSTR-ND◊ ***NEW!***	377.00/M
6.45	6.8	7.14	5.8	1000	1N6267ARL4GOSCT-ND◊ ***NEW!***	—	6.19	46.44	98.90	1N6267ARL4GOSTR-ND◊ ***NEW!***	267.00/M
9.5	10	10.5	8.55	10	1N6271AOS-ND	.76	6.09	45.71	97.35	—	—
9.5	10	10.5	8.55	10	1N6271AGOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
12.4	13	13.7	11.1	5	1N6274AGOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
14.1	—	—	12	2	1N6376GOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
14.3	15	15.8	12.8	5	1N6275AGOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
15.2	16	16.8	13.6	5	1N6276AOS-ND	.76	6.09	45.71	97.35	—	—
15.2	16	16.8	13.6	5	1N6276AGOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
17.1	18	18.9	15.3	5	1N6277AGOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
17.6	—	—	15	2	1N6377GOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
25.7	27	28.4	23.1	5	1N6281AGOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
28.5	30	31.5	25.6	5	1N6282ARL4OSCT-ND	—	6.09	45.71	97.35	—	—
28.5	30	31.5	25.6	5	1N6282ARL4GOSCT-ND◊ ***NEW!***	—	6.19	46.44	98.90	1N6282ARL4GOSTR-ND◊ ***NEW!***	267.00/M
31.4	33	34.7	28.2	5	1N6283AGOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
34.2	36	37.8	30.8	5	1N6284AGOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
37.1	39	41	33.3	5	1N6285AGOS-ND◊ ***NEW!***	.77	6.09	45.71	97.35	—	—
40.9	43	45.2	36.8	5	1N6286AOS-ND	.76	6.09	45.71	97.35	—	—
40.9	43	45.2	36.8	5	1N6286AGOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
44.7	47	49.4	40.2	5	1N6287AOS-ND	.76	6.09	45.71	97.35	—	—
44.7	47	49.4	40.2	5	1N6287AGOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
42.4	—	—	36	2	1N6380GOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
48.5	51	53.6	43.6	5	1N6288ARL4OSCT-ND	—	6.09	45.71	97.35	1N6288ARL4OSTR-ND	262.00/M
48.5	51	53.6	43.6	5	1N6288ARL4GOSCT-ND◊ ***NEW!***	—	6.19	46.44	98.90	1N6288ARL4GOSTR-ND◊ ***NEW!***	267.00/M
58.9	62	65.1	53	5	1N6290AOS-ND	.76	6.09	45.71	97.35	—	—
58.9	62	65.1	53	5	1N6290AGOS-ND◊ ***NEW!***	.77	6.19	46.44	98.90	—	—
86.5	91	95.5	77.8	5	1N6294ARL4OSCT-ND	—	6.09	45.71	97.35	1N6294ARL4OSTR-ND	262.00/M
86.5	91	95.5	77.8	5	1N6294ARL4GOSCT-ND◊ ***NEW!***	—	6.19	46.44	98.90	1N6294ARL4GOSTR-ND◊ ***NEW!***	267.00/M
95	100	105	85.5	5	1N6295AOS-ND	1.17	9.36	70.20	149.50	—	—
95	100	105	85.5	5	1N6295AGOS-ND◊ ***NEW!***	1.31	11.38	87.50	183.75	—	—

◊ ***RoHS Compliant***

ESD TVS

Dimensions in mm

Fig. 1
SC-74

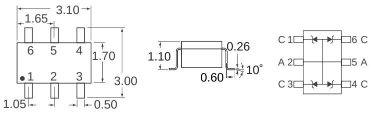

Fig. 2
SOT-323

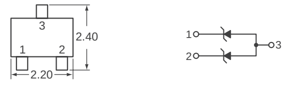

Fig. 3
SOD-323

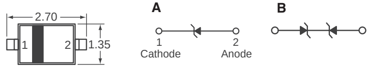

Fig. 4
SC-89

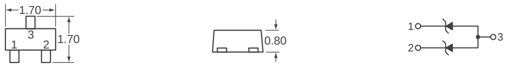

Fig. 5
SOT-23

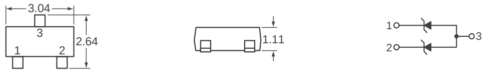

Fig.	Breakdown Voltage V_{BR} Min.	Nom.	Max.	V_{RWM} Min. (V)	I_R @ V_{RWM} (µA)	Digi-Key Part No.	Cut Tape Pricing 10	100	250	Digi-Key Part No.	Tape and Reel Pricing 3,000
1	5.89	6.2	6.51	4.0	0.7	MMQA6V2T1OSCT-ND	3.00	21.60	40.50	MMQA6V2T1OSTR-ND	108.00/M
2	6.4	6.8	7.2	5.0	.05	DF3A6.8FUT1GOSCT-ND◊ ***NEW!***	3.50	25.20	47.25	DF3A6.8FUT1GOSTR-ND◊ ***NEW!***	119.00/M
3A	6.2	—	7.3	5.0	10	SD05T1GOSCT-ND◊ ***NEW!***	2.97	20.90	38.00	SD05T1GOSTR-ND◊ ***NEW!***	86.00/M
	13.3	—	15.75	12.0	1.0	SD12T1OSCT-ND	3.34	24.01	45.02	SD12T1OSTR-ND	113.00/M
	13.3	—	15.75	12.0	1.0	SD12T1GOSCT-ND◊ ***NEW!***	2.97	20.90	38.00	SD12T1GOSTR-ND◊ ***NEW!***	86.00/M
3B	13.3	—	—	12.0	1.0	SD12CT1GOSCT-ND	5.40	40.50	86.25	SD12CT1GOSTR-ND	214.00/M
4	5.32	5.6	5.88	3.0	5.0	NZL5V6AXV3T1OSCT-ND	2.50	17.60	32.00	NZL5V6AXV3T1OSTR-ND	72.00/M
	5.32	5.6	5.88	3.0	5.0	NZL5V6AXV3T1GOSCT-ND◊ ***NEW!***	3.00	20.80	37.50	NZL5V6AXV3T1GOSTR-ND◊ ***NEW!***	80.00/M
	6.46	6.8	7.14	4.5	1.0	NZL6V8AXV3T1OSCT-ND	3.33	23.45	42.64	NZL6V8AXV3T1OSTR-ND	96.00/M
	6.46	6.8	7.14	4.5	1.0	NZL6V8AXV3T1GOSCT-ND◊ ***NEW!***	3.00	20.80	37.50	NZL6V8AXV3T1GOSTR-ND◊ ***NEW!***	80.00/M
	7.12	7.5	7.88	5.0	1.0	NZL7V5AXV3T1OSCT-ND	3.00	20.80	37.50	NZL7V5AXV3T1OSTR-ND	80.00/M
	7.12	7.5	7.88	5.0	1.0	NZL7V5AXV3T1GOSCT-ND◊ ***NEW!***	3.00	20.80	37.50	NZL7V5AXV3T1GOSTR-ND◊ ***NEW!***	80.00/M
5	6.2	—	7.3	5.0	10	SM05T1OSCT-ND	3.50	25.20	47.25	SM05T1OSTR-ND	121.00/M
	6.2	—	7.3	5.0	10	SM05T1GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	SM05T1GOSTR-ND◊ ***NEW!***	121.00/M
	13.3	—	15.75	12.0	1.0	SM12T1GOSCT-ND◊ ***NEW!***	3.56	25.63	48.06	SM12T1GOSTR-ND◊ ***NEW!***	121.00/M

◊ ***RoHS Compliant***

Diacs

Fig. 1 — SOT-23

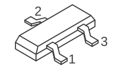

Pin 1 and 3 must be shorted together

Fig. 2 — MINIMELF

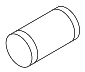

Fig. 3 — DO-35

Fig.	$V_{(BO)}$ (V) Min.	Max.	$V_{(BO)}$ Symmetry (V) Max.	Dynamic Breakback Voltage (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel † Size	Pricing	STMicroelectronics Part No.
1	28	36	±3	10	497-3148-1-ND	.60	4.80	36.00	3,000	180.00/M	SMDB3
2	28	36	±3	5	497-3275-1-ND	.55	4.40	33.00	2,500	165.00/M	TMMDB3
3	30	34	±2	9	497-3134-1-ND	.45	3.60	27.00	5,000	126.00/M	DB3TG

† For Tape and Reel part number, change 1-ND to 2-ND

•M•C•C•™
Micro Commercial Components

SMB Transient Voltage Protection Devices

TSMBJ is a semiconductor device characterized of having four layers of alternating conductivity: PNPN. Because it's of a silicon origin, TSMBJ does not degrade per use. These devices are needed for protection of sensitive circuits from electrical disturbances caused by lightning and AC power cross conditions. Primary applications are in the telecommunication and data communication circuits.

Features:
- Oxide-Glass passivated Junction
- Bi-Directional protection in a single device
- High Off-State impedance
- Low On-State voltage
- Plastic material has UL flammability classification 94V-0

Specifications: • Avg. Off-State Leakage Current @ V_{DRM}: 5 I_{DRM}

Rated Repetitive Off-State Volt. V_{DRM}	Break-over Volt. V_{BO}	I_{PP} @ 10/1000us (A)	On-State Volt. @ I_T = 1.0A V_T	Breakover Current I_{BO-} mA Min.	I_{BO+} mA Max.	Holding Current I_{H-} mA Min.	I_{H+} mA Max.	Off-State Cap. C_J pF Typ.	Digi-Key Part No.	Cut Tape Price Each 10	100	1,000
58	77	50	5	50	800	150	800	100	TSMBJ0305C064MSCT-ND	.90	.72	.54
65	88	50	5	50	800	150	800	100	TSMBJ0305C072MSCT-ND	.90	.72	.54
75	98	50	5	50	800	150	800	100	TSMBJ0306CMSCT-ND	.90	.72	.54
90	130	50	5	50	800	150	800	60	TSMBJ0307CMSCT-ND	.90	.72	.54
120	160	50	5	50	800	150	800	60	TSMBJ0309C130MSCT-ND	.90	.72	.54
140	180	50	5	50	800	150	800	60	TSMBJ0310CMSCT-ND	.90	.72	.54
160	220	50	5	50	800	150	800	60	TSMBJ0312CMSCT-ND	.90	.72	.54
190	265	50	5	50	800	150	800	40	TSMBJ0316CMSCT-ND	.90	.72	.54
220	300	50	5	50	800	150	800	40	TSMBJ0318CMSCT-ND	.90	.72	.54
275	350	50	5	50	800	150	800	40	TSMBJ0322CMSCT-ND	.90	.72	.54
320	400	50	5	50	800	150	800	40	TSMBJ0324CMSCT-ND	.90	.72	.54
58	77	80	5	50	800	150	800	140	TSMBJ0505C064MSCT-ND	.90	.72	.54
65	88	80	5	50	800	150	800	140	TSMBJ0505C072MSCT-ND	.90	.72	.54
75	98	80	5	50	800	150	800	140	TSMBJ0506CMSCT-ND	.90	.72	.54
90	130	80	5	50	800	150	800	90	TSMBJ0507CMSCT-ND	.90	.72	.54
160	220	80	5	50	800	150	800	90	TSMBJ0512CMSCT-ND	.90	.72	.54
190	265	80	5	50	800	150	800	60	TSMBJ0516CMSCT-ND	.90	.72	.54
220	300	80	5	50	800	150	800	60	TSMBJ0518CMSCT-ND	.90	.72	.54
275	350	80	5	50	800	150	800	60	TSMBJ0522CMSCT-ND	.90	.72	.54
320	400	80	5	50	800	150	800	60	TSMBJ0524CMSCT-ND	.90	.72	.54
58	77	100	5	50	800	150	800	200	TSMBJ1005C064MSCT-ND	1.75	1.40	1.05
65	88	100	5	50	800	150	800	200	TSMBJ1005C072M SCT-ND	1.75	1.40	1.05
75	98	100	5	50	800	150	800	200	TSMBJ1006CMSCT-ND	1.75	1.40	1.05
90	130	100	5	50	800	150	800	120	TSMBJ1007CMSCT-ND	1.75	1.40	1.05
120	160	100	5	50	800	150	800	120	TSMBJ1009C130MSCT-ND	1.75	1.40	1.05
140	180	100	5	50	800	150	800	120	TSMBJ1010CMSCT-ND	1.75	1.40	1.05
160	220	100	5	50	800	150	800	120	TSMBJ1012CMSCT-ND	1.75	1.40	1.05
220	300	100	5	50	800	150	800	80	TSMBJ1018CMSCT-ND	1.75	1.40	1.05
275	350	100	5	50	800	150	800	80	TSMBJ1022CMSCT-ND	1.75	1.40	1.05
320	400	100	5	50	800	150	800	80	TSMBJ1024CMSCT-ND	1.75	1.40	1.05

† For Tape and Reel part number, change CT-ND to TR-ND.

DO-214AA

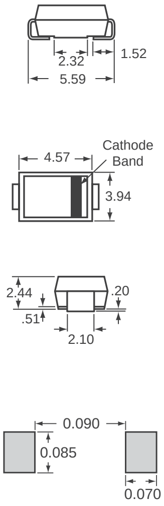

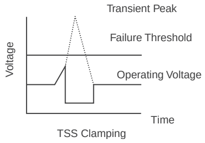

TECCOR® The New Standard in Thyristors for Electronic Equipment

Littelfuse®

Preliminary Balanced Line Protector

General Description:
Balanced Protector is designed to offer customers a surface mount alternative to our traditional modified TO-220 package. Based on a 6-pin SOIC package, Balanced Protector is built using patented "Y" (US Patent 4,905,119) configuration and are available in surge current ratings of up to 500A.

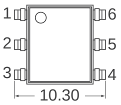

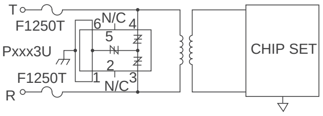

Series	I_{PP} 2 x 10µs (A)	I_{PP} 8 x 20µs (A)	I_{PP} 10 x 160µs (A)	I_{PP} 10 x 560µs (A)	I_{PP} 10 x 1000µs (A)	I_{TSM} 60Hz (A)	di/dt (A/µs)
C	500	400	200	150	100	50	500

V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,500
130	180	8	800	150	P1553UCRPCT-ND	4.24	3.85	3.47	P1553UCRPTR-ND	2002.00/M
150	210	8	800	150	P1803UCRPCT-ND	4.24	3.85	3.47	P1803UCRPTR-ND	2002.00/M
170	250	8	800	150	P2103UCRPCT-ND	4.24	3.85	3.47	P2103UCRPTR-ND	2002.00/M
200	270	8	800	150	P2353UCRPCT-ND	4.24	3.85	3.47	P2353UCRPTR-ND	2002.00/M
230	300	8	800	150	P2703UCRPCT-ND	4.24	3.85	3.47	P2703UCRPTR-ND	2002.00/M
270	350	8	800	150	P3203UCRPCT-ND	4.24	3.85	3.47	P3203UCRPTR-ND	2002.00/M
300	400	8	800	150	P3403UCRPCT-ND	4.24	3.85	3.47	P3403UCRPTR-ND	2002.00/M
420	600	8	800	150	P5103UCRPCT-ND	4.24	3.85	3.47	P5103UCRPTR-ND	2002.00/M

SIDACtor® Surge Protection

Product Description:
SIDACtors® are solid state crowbar devices designed to protect telecom equipment during hazardous transient conditions. Capitalizing on the latest in thyristor advancements, Teccor designs their SIDACtors® with a patented ion implant technology. This technology ensures effective protection within nanoseconds, 500A surge current ratings, and simple solutions for regulatory requirements such as Bellcore 1089, TIA/EIA-1S-968, ITU-T K.20, ITU-T K.21 and UL60950.

Operation:
In the standby mode, SIDACtors® exhibit a high off-state impedance eliminating excessive leakage currents and appearing transparent to the circuits they protect. Upon application of a voltage exceeding the switching voltage (Vs), SIDACtors® will crowbar and simulate a short circuit condition until the current flowing through the device is either interrupted or drops below the SIDACtors® holding current (IH), once this occurs, SIDACtors® will reset and return to their high off-state impedance.

Surge Ratings

Surge Rating (Series)	I_{PP} 2 x 10µs (A)	I_{PP} 8 x 20µs (A)	I_{PP} 10 x 160µs (A)	I_{PP} 10 x 560µs (A)	I_{PP} 10 x 1000µs (A)	I_{TSM} 60Hz (A)	di/dt (A/µs)
A	150	150	90	50	45	20	500
B	250	250	150	100	80	30	500
C	500	400	200	150	100	50	500

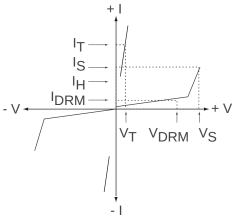

Fig. A
TO-92
(Isolated)

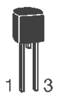

Fig. B
TO-220
No-Ground
(Isolated)

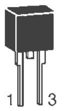

Fig. C
TO-220
(Isolated)

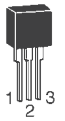

Fig. D
DO-214AA
(Isolated)

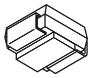

Fig. E
Modified DO-214AA
(Isolated)

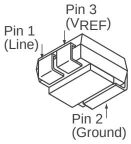

Fig. 1

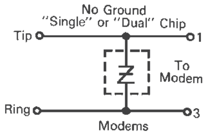

Fig. 2

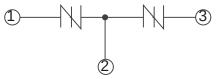

Fig. 3

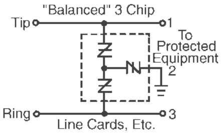

Fig. 4

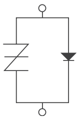

Fig. 5

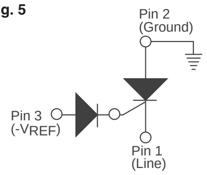

Fig.	Package	Surge Rating (Series)	V_{DRM} (V) ‡	V_S (V) ‡	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
A,1	TO-92	A 140	25	40	4	800	50	P0300EAL-ND§	.63	.56	.51	.42	.37
			58	77			150	P0640EA-ND	.63	.56	.51	.42	.37
			65	88				P0720EA-ND	.63	.56	.51	.42	.37
			75	98				P0900EAL-ND§	.63	.56	.51	.42	.37
			90	130				P1100EAL-ND§	.69	.62	.56	.47	.41
			120	160				P1300EAL-ND§	.69	.62	.56	.47	.41
			140	180				P1500EA-ND	.63	.56	.51	.42	.37
			140	180				P1500EAL-ND§	.69	.62	.56	.47	.41
			220	300				P2600EAL-ND§	.69	.62	.56	.47	.41
			275	350				P3100EAL-ND§	.69	.62	.56	.47	.41
		B	220	300	4	800	150	P2600EBL-ND§	.77	.69	.62	.52	.45
			275	350				P3100EBL-ND§	.78	.69	.63	.52	.45
			320	400				P3500EBL-ND§	.77	.69	.62	.52	.45
		C	58	77	4	800	150	P0640ECL-ND§	.81	.72	.65	.54	.47
			170	220				P1800ECL-ND§	.89	.80	.72	.60	.52
			220	300				P2600ECL-ND§	.81	.72	.65	.54	.47
			275	350				P3100EC-ND	.81	.72	.65	.54	.47
			275	350				P3100ECL-ND§	.89	.80	.72	.60	.52
			320	400				P3500ECL-ND§	.89	.80	.72	.60	.52
B,1	Modified TO-220	A	220	260	4	800	150	P2400AA61-ND	1.37	1.22	1.10	.92	.80
			220	260				P2400AA61L-ND§	1.51	1.35	1.21	1.01	.88
			270	330				P3000AA61-ND	1.37	1.22	1.10	.92	.80
			270	330				P3000AA61L-ND§	1.51	1.35	1.21	1.01	.88
C,2	Modified TO-220	A	25	40	4	800	50	P0602AA-ND*	1.80	1.60	1.44	1.20	1.04
		B	65	95	4	800	150	P1602AB-ND*	2.27	2.02	1.82	1.52	1.32
			65	95				P1602ABL-ND*§	2.50	2.22	2.00	1.67	1.45
		A	270	350	8	800	150	P3203AAL-ND§	2.50	2.22	2.00	1.67	1.45
		B	90	130	4	800	150	P2202ABL-ND*§	2.50	2.22	2.00	1.67	1.45
			140	180				P3002AB-ND*	2.27	2.02	1.82	1.52	1.32
			140	180				P3002ABL-ND*§	2.50	2.22	2.00	1.67	1.45
			275	350				P6002ABL-ND*§	2.50	2.22	2.00	1.67	1.45
		C	25	40	4	800	50	P0602AC-ND†	2.52	2.24	2.02	1.68	1.46

* Off-state capacitance (C_O) is measured between Pins 1-2 and 3-2 at 1 MHz with a 2 V bias and is a typical value for AA. Capacitance is approximately 2x the listed value for AB and AC product.

† Between any 2 pins ‡ V_{DRM} between pins 1-3 = 2 X V_{DRM} pins 1-2, V_S between pins 1-3 = 2 X V_S pins 1-2 § ***RoHS Compliant***

(Continued)

Fig.	Package	Surge Rating (Series)	V_{DRM} (V) ‡	V_S (V) ‡	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Price Each 1	10	100	500	1,000
C,3	Modified TO-220	B	130	180	8	800	150	P1553ABL-ND†§	3.26	2.90	2.61	2.18	1.89
			170	250				P2103ABL-ND†§	3.26	2.90	2.61	2.18	1.89
			200	270				P2353ABL-ND†§	3.26	2.90	2.61	2.18	1.89
			230	300				P2703ABL-ND†§	3.26	2.90	2.61	2.18	1.89
			270	350				P3203AB-ND†	2.97	2.64	2.38	1.98	1.72
			270	350				P3203ABL-ND†§	3.27	2.91	2.62	2.18	1.89
			300	400				P3403ABL-ND†§	3.26	2.90	2.61	2.18	1.89
		C	270	350	8	800	150	P3203ACL-ND†§	3.29	2.92	2.63	2.19	1.90

* Off-state capacitance (C_O) is measured between Pins 1-2 and 3-2 at 1 MHz with a 2 V bias and is a typical value for AA. Capacitance is approximately 2x the listed value for AB and AC product.

† Between any 2 pins ‡ V_{DRM} between pins 1-3 = 2 X V_{DRM} pins 1-2, V_S between pins 1-3 = 2 X V_S pins 1-2 § ***RoHS Compliant***

Fig.	Package	Surge Rating (Series)	V_{DRM} (V)	V_S (V)	V_T (V)	I_S (mA)	I_H (mA)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 2,500
D,1	DO-214 AA	A	25	40	4	800	50	P0300SARPCT-ND	1.60	1.28	.96	P0300SARPTR-ND	416.00/M
			25	40				P0300SALRPCT-ND§	1.76	1.41	1.06	P0300SALRPTR-ND§	457.60/M
			58	77			150	P0640SARPCT-ND	1.60	1.28	.96	P0640SARPTR-ND	395.20/M
			58	77				P0640SALRPCT-ND§	1.60	1.28	.96	P0640SALRPTR-ND§	416.00/M
			65	88				P0720SARPCT-ND	1.60	1.28	.96	P0720SARPTR-ND	416.00/M
			65	88				P0720SALRPCT-ND§	1.60	1.28	.96	P0720SALRPTR-ND§	416.00/M
			140	180				P1500SALRPCT-ND§	1.76	1.41	1.06	P1500SALRPTR-ND§	457.60/M
			220	300				P2600SALRPCT-ND§	1.76	1.41	1.06	P2600SALRPTR-ND§	457.60/M
			275	350				P3100SARPCT-ND	1.52	1.22	.92	—	—
			275	350				P3100SALRPCT-ND§	1.60	1.28	.96	P3100SALRPTR-ND§	416.00/M
			320	400				P3500SARPCT-ND	1.60	1.28	.96	—	—
			320	400				P3500SALRPCT-ND§	1.60	1.28	.96	P3500SALRPTR-ND§	416.00/M
		B	25	40	4	800	50	P0300SBLRPCT-ND§	1.93	1.54	1.16	P0300SBLRPTR-ND§	500.50/M
			275	350			150	P3100SBRPCT-ND	1.75	1.40	1.05	P3100SBRPTR-ND	455.00/M
			275	350				P3100SBLRPCT-ND§	1.93	1.54	1.16	P3100SBLRPTR-ND§	500.50/M
			320	400				P3500SBLRPCT-ND§	1.93	1.54	1.16	P3500SBLRPTR-ND§	500.50/M
			220	300				P2600SBRPCT-ND	1.75	1.40	1.05	P2600SBRPTR-ND	455.00/M
			220	300				P2600SBLRPCT-ND§	1.93	1.54	1.16	P2600SBLRPTR-ND§	500.50/M
		C	25	40	4	800	50	P0300SCLRPCT-ND§	2.15	1.72	1.29	P0300SCLRPTR-ND§	557.70/M
			58	77			150	P0640SCRPCT-ND	1.95	1.56	1.17	—	—
			58	77				P0640SCLRPCT-ND§	1.95	1.56	1.17	P0640SCLRPTR-ND§	507.00/M
			170	220				P1800SCLRPCT-ND§	1.95	1.56	1.17	P1800SCLRPTR-ND§	507.00/M
			220	300				P2600SCRPCT-ND	1.95	1.56	1.17	P2600SCRPTR-ND	507.00/M
			220	300				P2600SCLRPCT-ND§	2.15	1.72	1.29	P2600SCLRPTR-ND§	557.70/M
			275	350				P3100SCLRPCT-ND§	2.13	1.70	1.28	P3100SCLRPTR-ND§	552.50/M
			320	400				P3500SCRPCT-ND	1.95	1.56	1.17	P3500SCRPTR-ND	507.00/M
			320	400				P3500SCLRPCT-ND§	2.15	1.72	1.29	P3500SCLRPTR-ND§	557.70/M

§ ***RoHS Compliant***

Battrax Subscriber Line Interface Circuit Protection (SLIC)

The Battrax® device is a solid state protection device that can be referenced to either a positive or negative voltage source. The B1100C_ is for a $-V_{REF}$. Designed using an SCR and an integrated diode, the B1100C_ Battrax® device begins to conduct at $\lvert -V_{REF}\rvert + \lvert -1.2V\rvert$.

The P0641S_ is a unidirectional solid state protection device constructed with a SIDACtor® device and an integrated diode. Used to protect SLIC IC's from being damaged during transient voltage activity. They help line cards meet various regulatory requirements including: GR1089, ITU K.20, K.21 and K.45, IEC 60950 and TIA/EIA-15-968.

Surge Ratings

Digi-Key Part No.	Series	I_{pp} 2 x 10µs (A)	I_{pp} 8 x 20µs (A)	I_{pp} 10 x 160µs (A)	I_{pp} 10 x 560µs (A)	I_{pp} 10 x 1000µs (A)	I_{TSM} 60Hz (A)	di/dt (A/µs)
B1100C_	A C	150 500	150 400	90 200	60 150	50 100	20 50	500 500
P0641S_	A C	150 500	150 400	90 200	50 150	45 100	20 50	500 500

Fig.	Package	V_{DRM} (V)	V_S (V)	V_T (V)	V_F (V)	I_{DRM} (mA)	I_{GT} (mA)	I_S (mA)	I_T (A)	I_H (mA)	C_O (pF)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	T&R Pricing 2,500
SLIC Battrax Protection																		
E,5	Modified DO-214AA	$\lvert -V_{REF}\rvert + \lvert -1.2V\rvert$	$\lvert -V_{REF}\rvert + \lvert -10V\rvert$	4	—	5	100	—	2.2	100	50	B1100CARPCT-ND B1100CCLRPCT-ND§	2.10 3.95	1.68 3.16	1.26 2.37	.84 1.58	B1100CARPTR-ND B1100CCLRPTR-ND§	546.00/M 936.00/M
SLIC Protection																		
D,4	DO-214AA	58	77	4	5	5	—	800	1	120	70	P0641SARPCT-ND P0641SCRPCT-ND	1.70 2.10	1.36 1.68	1.02 1.26	.68 .84	P0641SARPTR-ND P0641SCRPTR-ND	442.00/M 546.00/M

§ ***RoHS Compliant***

TeleLink® SMD Fuse - 0461 Series

The TeleLink® Surface Mount surge resistant time lag fuse has been designed to offer the ultimate in circuit protection while meeting the necessary surge requirements of the telecommunications industry. When used in conjunction with the SIDACtor® they provide a complete regulatory compliant solution for standards such as Telcordia GR-1089-Core, TIA/EIA-968-A, UL60950.

Specifications:
Interrupting Values • Voltage Rating: 250V • Current Rating: 1.25A **Surge Ratings:** • 100A, 10 x 1000µs and 500A, 2 x 10µs • Designed specifically for telecommunications equipment

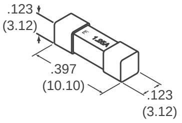

Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 2,500
F1250TRPCT-ND	2.29	1.83	1.38	F1250TRPTR-ND	594.10/M

PolySwitch® Resettable Devices

PolySwitch resettable devices protect electrical and electronic circuits against excessive current, voltage, and temperature. After switching, the PolySwitch device is latched into its high-resistance, protective state by the small, sustained self-heating current. The device will reset only after it has cooled and the fault condition has been corrected, thus avoiding continuous cycling that could cause circuit damage. The device requires no manual resetting or replacement.

Definitions: • **Maximum Voltage:** The highest voltage the device can withstand (in its tripped state) without damage. • **Hold Current:** The maximum continuous current that will not cause the device to trip at 20°C. • **Trip Current:** The minimum continuous current that will cause the device to trip at 20°C. • **Maximum Current:** The largest fault current, at rated voltage, the device can interrupt without being damaged. **Maximum R:** Maximum non-tripped resistance of the device.

Fig. 1 — RGE and RHE Series

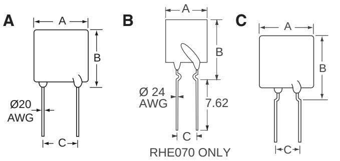

This product series can be used in a wide variety of automotive, computer and general electronics applications. The RGE devices feature high current carrying capability (up to 13 amps) in a small package with fast trip times.

Fig. 2 — RXE Series

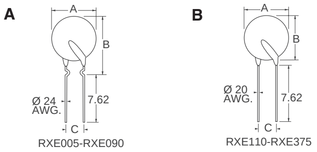

These products function as the general purpose line of circuit protection devices and are well suited for power supplies, alarm systems, speakers, motors and many other applications. The RXE series range in hold currents from .05 ~ 3.75 amps and complement the RUE devices by providing a higher voltage rating.

Fig. 3 — RUE Series

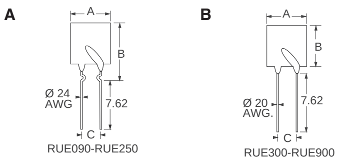

These devices are also designed to be used in a wide variety of general electronics applications. They complement the RXE series by providing a smaller form factor with lower resistance and higher hold current capability (up to 9 amps).

Fig. 4 — RTE Series

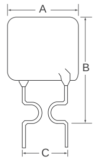

RTE series polyswitches are specifically designed for IEEE-1394 applications.

Fig.	Max. Volt.	Rated Current (20°C) (A) Hold	Trip	Max. Current (A)	Initial Resistance RMin. (Ω)	RMax. (Ω)	Recognized By	Dimensions Inches (mm) A	B	C (Max.)	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
RGE Series															
1A	16	3.00	5.10	100	0.038	0.0653	UL, TUV, CSA	0.28 (7.1)	0.43 (11.0)	0.23 (5.8)	RGE300-ND	.53	.49	.45	RGE300
1A	16	4.00	6.80	100	0.021	0.0393	UL, TUV, CSA	0.35 (8.9)	0.50 (12.8)	0.23 (5.8)	RGE400-ND	.57	.52	.48	RGE400
1A	16	5.00	8.50	100	0.015	0.0236	UL, TUV, CSA	0.41 (10.4)	0.56 (14.3)	0.23 (5.8)	RGE500-ND	.62	.57	.52	RGE500
1A	16	6.00	10.20	100	0.010	0.0191	UL, TUV, CSA	0.42 (10.7)	0.67 (17.1)	0.23 (5.8)	RGE600-ND	.65	.60	.54	RGE600
1A	16	7.00	11.90	100	0.0077	0.0134	UL, TUV, CSA	0.44 (11.2)	0.78 (19.7)	0.23 (5.8)	RGE700-ND	.68	.62	.57	RGE700
1A	16	8.00	13.60	100	0.0056	0.0116	UL, TUV, CSA	0.50 (12.7)	0.82 (20.9)	0.23 (5.8)	RGE800-ND	.74	.68	.62	RGE800
1A	16	9.00	15.30	100	0.0047	0.0093	UL, TUV, CSA	0.55 (14.0)	0.85 (21.7)	0.23 (5.8)	RGE900-ND	.75	.69	.63	RGE900
1A	16	10.00	17.00	100	0.0040	0.0072	UL, TUV, CSA	0.65 (16.5)	0.99 (25.2)	0.23 (5.8)	RGE1000-ND	.78	.72	.65	RGE1000
1A	16	11.00	18.70	100	0.0037	0.0063	UL, TUV, CSA	0.69 (17.5)	1.02 (26.0)	0.23 (5.8)	RGE1100-ND	.81	.75	.68	RGE1100
1A	16	12.00	20.40	100	0.0033	0.0060	UL, TUV, CSA	0.69 (17.5)	1.10 (27.94)	0.43 (10.9)	RGE1200-ND	.93	.86	.78	RGE1200
1A	16	14.00	23.80	100	0.0026	0.0045	UL, TUV, CSA	0.925 (23.5)	1.10 (27.94)	0.43 (10.9)	RGE1400-ND	1.08	.99	.90	RGE1400
RHE Series															
1B	30	0.7	1.4	40	0.300	0.546	UL, TUV, CSA	0.27 (6.86)	0.425 (10.8)	0.23 (5.8)	RHE070-ND	.50	.46	.42	RHE070
1C	16	4.0	7.0	100	0.018	0.029	UL, TUV, CSA	0.45 (11.4)	0.71 (18.0)	0.23 (5.8)	RHE400-ND	.63	.58	.53	RHE400
1C	16	4.5	7.8	100	0.022	0.036	UL, TUV, CSA	0.41 (10.4)	0.61 (15.6)	0.23 (5.8)	RHE450-ND	.66	.61	.55	RHE450
1C	16	6.0	10.8	100	0.013	0.022	UL, TUV, CSA	0.44 (11.2)	0.83 (21.0)	0.23 (5.8)	RHE600-ND	.72	.66	.60	RHE600
1C	16	6.5	12.0	100	0.011	0.018	UL, TUV, CSA	0.50 (12.7)	0.88 (22.2)	0.23 (5.8)	RHE650-ND	.74	.68	.62	RHE650
1C	16	7.5	13.1	100	0.0094	0.0153	UL, TUV, CSA	0.55 (14.0)	0.93 (23.5)	0.23 (5.8)	RHE750-ND	.78	.72	.65	RHE750
1C	16	10.0	18.5	100	0.0062	0.0105	UL, TUV, CSA	0.69 (17.5)	1.04 (26.5)	0.43 (10.9)	RHE1000-ND	.96	.88	.80	RHE1000
1C	16	13.0	24.0	100	0.0041	0.0069	UL, TUV, CSA	0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	RHE1300-ND	1.11	1.02	.93	RHE1300
1C	16	15.0	28.0	100	0.0032	0.0061	UL, TUV, CSA	0.925 (23.5)	1.13 (28.7)	0.43 (10.9)	RHE1500-ND	1.23	1.13	1.03	RHE1500
RXE Series															
2A	60	0.05	0.10	40	7.3	11.1	UL, TUV, CSA	0.32 (8.0)	0.33 (8.3)	0.23 (5.8)	RXE005-ND	.39	.36	.33	RXE005
2A	60	0.10	0.20	40	2.5	4.50	UL, TUV, CSA	0.29 (7.4)	0.46 (11.6)	0.23 (5.8)	RXE010-ND	.38	.35	.32	RXE010
2A	60	0.17	0.34	40	3.3	5.21	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXE017-ND	.39	.36	.33	RXE017
2A	72	0.20	0.40	40	1.83	2.75	UL, TUV, CSA	0.29 (7.4)	0.46 (11.7)	0.23 (5.8)	RXE020-ND	.39	.36	.33	RXE020
2A	72	0.25	0.50	40	1.25	1.95	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXE025-ND	.39	.36	.33	RXE025
2A	72	0.30	0.60	40	0.88	1.33	UL, TUV, CSA	0.29 (7.4)	0.50 (12.7)	0.23 (5.8)	RXE030-ND	.40	.37	.33	RXE030
2A	72	0.40	0.80	40	0.55	0.86	UL, TUV, CSA	0.30 (7.6)	0.53 (13.5)	0.23 (5.8)	RXE040-ND	.44	.41	.37	RXE040
2A	72	0.50	1.00	40	0.50	0.77	UL, TUV, CSA	0.31 (7.9)	0.54 (13.7)	0.23 (5.8)	RXE050-ND	.44	.41	.37	RXE050
2A	72	0.65	1.30	40	0.31	0.48	UL, TUV, CSA	0.37 (9.40)	0.57 (14.5)	0.23 (5.8)	RXE065-ND	.44	.41	.37	RXE065
2A	72	0.75	1.50	40	0.25	0.40	UL, TUV, CSA	0.40 (10.2)	0.60 (15.2)	0.23 (5.8)	RXE075-ND	.45	.42	.38	RXE075
2A	72	0.90	1.80	40	0.20	0.31	UL, TUV, CSA	0.44 (11.2)	0.62 (15.8)	0.23 (5.8)	RXE090-ND	.46	.42	.38	RXE090
2B	72	1.10	2.20	40	0.15	0.25	UL, TUV, CSA	0.50 (12.8)	0.69 (17.5)	0.23 (5.8)	RXE110-ND	.46	.43	.39	RXE110
2B	72	1.35	2.70	40	0.12	0.19	UL, TUV, CSA	0.57 (14.5)	0.75 (19.1)	0.23 (5.8)	RXE135-ND	.48	.44	.40	RXE135
2B	72	1.60	3.20	40	0.09	0.14	UL, TUV, CSA	0.64 (16.3)	0.82 (20.8)	0.23 (5.8)	RXE160-ND	.49	.45	.41	RXE160
2B	72	1.85	3.70	40	0.08	0.12	UL, TUV, CSA	0.69 (17.5)	0.88 (22.4)	0.23 (5.8)	RXE185-ND	.53	.49	.44	RXE185
2B	72	2.50	5.00	40	0.05	0.08	UL, TUV, CSA	0.82 (20.8)	1.00 (25.4)	0.43 (10.9)	RXE250-ND	.59	.54	.49	RXE250
2B	72	3.00	6.00	40	0.04	0.06	UL, TUV, CSA	0.94 (23.9)	1.13 (28.6)	0.43 (10.9)	RXE300-ND	.63	.58	.53	RXE300
2B	72	3.75	7.50	40	0.03	0.05	UL, TUV, CSA	1.07 (27.2)	1.25 (31.8)	0.43 (10.9)	RXE375-ND	.66	.61	.55	RXE375
RUE Series															
3A	30	0.90	1.80	100	0.070	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	RUE090-ND	.45	.42	.38	RUE090
3A	30	1.10	2.20	100	0.050	0.10	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	RUE110-ND	.46	.43	.39	RUE110
3A	30	1.35	2.70	100	0.040	0.08	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	RUE135-ND	.47	.44	.40	RUE135
3A	30	1.60	3.20	100	0.030	0.07	UL, TUV, CSA	0.35 (8.9)	0.60 (15.2)	0.23 (5.8)	RUE160-ND	.49	.45	.41	RUE160
3A	30	1.85	3.70	100	0.030	0.06	UL, TUV, CSA	0.40 (10.2)	0.62 (15.7)	0.23 (5.8)	RUE185-ND	.50	.47	.42	RUE185
3A	30	2.50	5.00	100	0.020	0.04	UL, TUV, CSA	0.45 (11.4)	0.72 (18.3)	0.23 (5.8)	RUE250-ND	.52	.48	.44	RUE250
3B	30	3.00	6.00	100	0.020	0.05	UL, TUV, CSA	0.45 (11.4)	0.65 (16.5)	0.23 (5.8)	RUE300-ND	.55	.51	.46	RUE300
3B	30	4.00	8.00	100	0.010	0.03	UL, TUV, CSA	0.55 (14.0)	0.76 (19.3)	0.23 (5.8)	RUE400-ND	.59	.55	.50	RUE400
3B	30	5.00	10.00	100	0.010	0.03	UL, TUV, CSA	0.55 (14.0)	0.95 (24.1)	0.43 (10.9)	RUE500-ND	.65	.60	.54	RUE500
3B	30	6.00	12.00	100	0.005	0.02	UL, TUV, CSA	0.65 (16.5)	0.95 (24.1)	0.43 (10.9)	RUE600-ND	.69	.64	.58	RUE600
3B	30	7.00	14.00	100	0.005	0.02	UL, TUV, CSA	0.75 (19.1)	1.02 (25.9)	0.43 (10.9)	RUE700-ND	.74	.68	.62	RUE700
3B	30	8.00	16.00	100	0.005	0.013	UL, TUV, CSA	0.85 (21.6)	1.12 (28.4)	0.43 (10.9)	RUE800-ND	.77	.71	.64	RUE800
3B	30	9.00	18.00	100	0.005	0.01	UL, TUV, CSA	0.95 (24.1)	1.14 (29.0)	0.43 (10.9)	RUE900-ND	.81	.75	.68	RUE900
RTE Series															
4	33	1.20	2.30	40	0.074	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	RTE120-ND	.47	.43	.39	RTE120
4	33	1.20	2.30	40	0.074	0.12	UL, TUV, CSA	0.29 (7.4)	0.48 (12.2)	0.23 (5.8)	RTE120TR-ND		834.11/3,000		RTE120-2
4	33	1.35	2.50	40	0.059	0.10	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	RTE135-ND	.48	.44	.40	RTE135
4	33	1.35	2.50	40	0.059	0.10	UL, TUV, CSA	0.29 (7.4)	0.56 (14.2)	0.23 (5.8)	RTE135TR-ND		859.24/3,000		RTE135-2
4	33	1.90	3.00	40	0.045	0.063	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	RTE190-ND	.51	.47	.43	RTE190
4	33	1.90	3.00	40	0.045	0.063	UL, TUV, CSA	0.35 (8.9)	0.53 (13.5)	0.23 (5.8)	RTE190TR-ND		906.89/3,000		RTE190-2

Fig.	Operating Voltage	Rated Current (20°C) (A) Hold	Trip	Maximum Interrupt Voltage	Maximum Interrupt Current	Initial Resistance RMin. (Ω)	RMax. (Ω)	Recognized By	Dimensions Inches (mm) A	B	C (Max.)	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
LVR Line Voltage Series																
5A	240VAC	.05	.12	265VAC	1.0ARMS	18.5	31	UL, TUV, CSA	.33 (8.3)	.43 (10.7)	.23 (5.8)	LVR005S-ND	.51	.47	.43	LVR005S
5A	240VAC	.08	.19	265VAC	1.2ARMS	7.4	12	UL, TUV, CSA	.33 (8.3)	.43 (10.7)	.23 (5.8)	LVR008S-ND	.51	.47	.43	LVR008S
5A	240VAC	.12	.30	265VAC	1.2ARMS	3.0	6.5	UL, TUV, CSA	.33 (8.3)	.43 (10.7)	.23 (5.8)	LVR012S-ND	.51	.47	.43	LVR012S
5A	240VAC	.16	.37	265VAC	2.0ARMS	2.5	4.1	UL, TUV, CSA	.39 (9.9)	.50 (12.5)	.23 (5.8)	LVR016S-ND	.54	.50	.45	LVR016S
5B	240VAC	.25	.56	265VAC	3.5ARMS	1.3	2.1	UL, TUV, CSA	.38 (9.6)	.69 (17.4)	.23 (5.8)	LVR025S-ND	.60	.55	.50	LVR025S
5B	240VAC	.40	.90	265VAC	5.5ARMS	0.6	.97	UL, TUV, CSA	.46 (11.5)	.77 (19.5)	.23 (5.8)	LVR040S-ND	.69	.64	.58	LVR040S

(Continued)

Fig. 5 — LVR Series

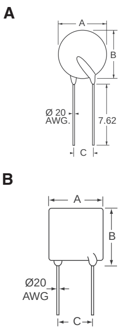

This product extends the proven PolySwitch technology of resettable overcurrent protection into higher voltage applications.

Fig. 6 — RUSB Series

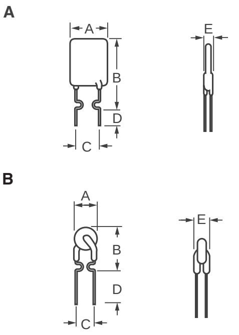

New PolySwitch RUSB devices are designed to meet USB and safety agency requirements.The RUSB family of leaded resettable devices offers overcurrent protection for USB applications.

Fig. 7 — RYC Series Power Distribution Switches

These USB power distribution switches enable power to USB ports upon USB controller commands. The switches signal the controller when faults such as overcurrent, over-temperature, undervoltage lock-out (UVLO) or over-voltage lock-out (OVLO) are detected.

SO-16

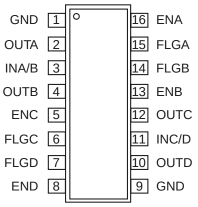

SO-16 Pin No.	Pin Function
5, 8, 13, 16	Enable (Input): Logic-compatible enable input. High input > 2.1V typical. Low input <1.9V typical
6, 7, 14, 15	Fault Flag (Output): Active-low open-drain output. Indicates overcurrent, UVLO, OVLO and thermal shutdown
1, 9	Ground: Supply return
3, 11	Supply Input: Output MOSFET drain. Also supplies ICs internal circuitry. Connect to positive supply
2, 4, 10, 12	Switch Output: Output MOSFET source. Typically connect to switched side of load

Fig. 8 — LTP Series

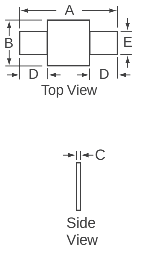

Similar to the SRP family of PolySwitch strap products, LTP devices help provide reliable, non-cycling protection for rechargeable batteries and have a slim, low-profile design that makes them easy to install. LTP devices also offer additional protection at elevated temperatures.

Fig. 9 — SRP Series

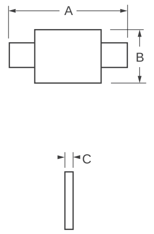

These products help provide reliable, non-cycling protection for rechargeable batteries. Weldable nickel leads and a narrow, low-profile design make these devices extremely easy to install on the edges of battery packs.

Fig.	Maximum Voltage	Rated Current (20°C) (A) Hold	Trip	Initial Resistance RMin. (Ω)	RMax. (Ω)	Dimensions – Inches (mm) A Maximum	B Maximum	C Maximum	D Minimum	E Maximum	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
								RUSB							
6B	6	0.75	1.3	0.110	0.177	.27 (6.9)	.45 (11.4)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB075-ND	.38	.35	.32	RUSB075
6A	16	0.90	1.8	0.070	0.121	.29 (7.4)	.48 (12.2)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB090-ND	.44	.41	.37	RUSB090
6A	16	1.10	2.2	0.050	0.096	.29 (7.4)	.56 (14.2)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB110-ND	.45	.42	.38	RUSB110
6B	6	1.20	2.0	0.650	0.098	.27 (6.9)	.46 (11.7)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB120-ND	.46	.42	.38	RUSB120
6A	16	1.35	2.7	0.040	0.075	.35 (8.9)	.53 (13.5)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB135-ND	.46	.43	.39	RUSB135
6B	6	1.55	2.65	0.043	0.071	.27 (6.9)	.46 (11.7)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB155-ND	.47	.43	.39	RUSB155
6A	16	1.60	3.2	0.030	0.062	.35 (8.9)	.60 (15.2)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB160-ND	.48	.44	.40	RUSB160
6A	16	1.85	3.7	0.030	0.055	.40 (10.2)	.62 (15.7)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB185-ND	.50	.46	.42	RUSB185
6A	16	2.50	5.0	0.020	0.036	.45 (11.4)	.72 (18.3)	.23 (5.9)	.30 (7.6)	.12 (3.1)	RUSB250-ND	.51	.47	.43	RUSB250

Fig.	Maximum Supply Voltage	Fault Flag Voltage	Fault Flag Current	Output Voltage	Output Current	Control Input	Storage Temp.	Maximum Lead Temperature During Soldering (5 seconds)	Supply Voltage	Ambient Operating Temperature	Pkg.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing† 2,500	Raychem Part No.
								RYC Series									
7	+8	+8	50mA	+8	Limited	+12.0V	150°C	260°C	+5.5	85°C	SOIC-16	RYC8240-2WMCT-ND	3.47	2.97	2.73	—	RYC8240-2WM
												RYC8240-4WMCT-ND	3.47	2.97	2.73	2350.00/M	RYC8240-4WM

Fig.	Max. Volt.	Rated Rated Current (20°C) (A) Hold	Trip	Maximum Current (A)	RMax. Initial (Ω)	Recognized By	Dimensions Inches (mm) A	B	C	D	E	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
								LTP Series								
8	24	1.90	4.2	100	0.057	UL, TUV, CSA	0.92 (23.4)	0.43 (11.0)	0.04 (1.1)	0.30 (7.6)	0.21 (5.4)	LTP190-ND	.68	.62	.57	LTP190
		2.60	5.2		0.042		1.02 (26.0)	0.47 (11.9)	0.04 (1.0)	0.28 (7.0)	0.24 (6.1)	LTP260-ND	.89	.82	.74	LTP260
		3.0	6.3		0.031		1.25 (31.8)	0.53 (13.5)	0.043 (1.1)	0.35 (8.9)	0.26 (6.6)	LTP300-ND	.89	.82	.74	LTP300
		3.1	6.0		0.030		1.02 (26.0)	0.62 (15.9)	0.04 (1.0)	0.28 (7.0)	0.24 (6.1)	LTP310-ND	.93	.86	.78	LTP310
								SRP - RoHS Compliant								
9	15	1.20	2.70	100	0.16	UL, TUV, CSA	0.87 (22.1)	0.20 (5.2)	0.04 (1.0)	—	—	SRP120F-ND	.57	.53	.48	SRP120F
	15	1.75	3.80		0.09		0.91 (23.1)	0.20 (5.2)	0.04 (1.0)	—	—	SRP175F-ND	.57	.53	.48	SRP175F
	30	2.00	4.40		0.06		0.92 (23.4)	0.43 (11.0)	0.04 (1.1)	—	—	SRP200F-ND	.57	.53	.48	SRP200F
	30	3.50	6.30		0.03		1.25 (31.8)	0.53 (13.5)	0.04 (1.1)	—	—	SRP350F-ND	.60	.55	.50	SRP350F
	30	4.20	7.60		0.024		1.28 (32.4)	0.54 (13.6)	0.04 (1.1)	—	—	SRP420F-ND	.62	.57	.52	SRP420F
								SRP								
9	15	1.20	2.70	100	0.16	UL, TUV, CSA	0.87 (22.1)	0.20 (5.2)	0.04 (1.0)	—	—	SRP120-ND	.62	.57	.52	SRP120

Fig.	Max. Volt.	Rated Current (20°C) (A) Hold	Trip	Maximum Current (A)	R_1Max. Initial (Ω)	Recognized By	Dimensions Inches (mm) A (Maximum)	B (Maximum)	C (Maximum)	D	E	F	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Size	Pricing	Raychem Part No.
									SMD										
10	60	0.30	0.60	10	4.8	UL, TUV, CSA	.314 (7.98)	.125 (3.18)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD030CT-ND	.86	.74	.68	2,000	395.07/M	SMD030-2
	60	0.50	1.00	10	1.4		.314 (7.98)	.125 (3.18)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD050CT-ND	.86	.74	.68	2,000	395.07/M	SMD050-2
	30	0.75	1.50	40	1.0		.314 (7.98)	.125 (3.18)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD075CT-ND	.86	.74	.68	—	—	SMD075-2
	30	1.10	2.20	40	0.48		.314 (7.98)	.118 (3.00)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD100CT-ND	.82	.70	.65	2,000	374.93/M	SMD100-2
	15	1.25	2.50	40	0.25		.314 (7.98)	.118 (3.00)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD125CT-ND	.82	.70	.65	2,000	374.93/M	SMD125-2
	15	1.50	3.00	40	0.25		.370 (9.40)	.118 (3.00)	.264 (6.71)	.18 (4.6)	.240 (6.1)	.09 (2.3)	SMD150CT-ND	.77	.66	.61	1,500	401.06/M	SMD150-2
	15	2.00	4.00	40	0.125		.370 (9.40)	.118 (3.00)	.264 (6.71)	.18 (4.6)	.240 (6.1)	.09 (2.3)	SMD200CT-ND	.77	.66	.61	1,500	401.06/M	SMD200-2
	15	2.50	5.00	40	0.085		.370 (9.40)	.118 (3.00)	.264 (6.71)	.18 (4.6)	.240 (6.1)	.09 (2.3)	SMD250CT-ND	.79	.68	.62	1,500	410.18/M	SMD250-2
	6	2.60	5.20	40	0.075		.314 (7.98)	.118 (3.00)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD260CT-ND	.86	.74	.68	2,000	391.00/M	SMD260-2
	6	3.00	6.00	40	0.048		.314 (7.98)	.118 (3.00)	.214 (5.44)	.12 (3.1)	.200 (5.1)	.09 (2.3)	SMD300CT-ND	.82	.70	.65	2,000	391.00/M	SMD300-2

† For Tape and Reel part number, change CT-ND to TR-ND.

(Continued)

Fig. 10 — SMD

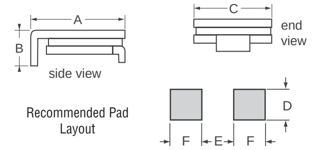

This product series is specifically designed for surface mount applications. The products range in hold currents from 0.3 amps to 3.0 amps and voltages from 6 volts to 60 volts. These devices are ideally suited for high density board applications in computer and computer peripheral products, telecommunications and general electronics applications. They are designed to be reflowed onto a PCB using standard surface mount processes. Packaged per EIA-481 standard.

Fig. 11 — miniSMD

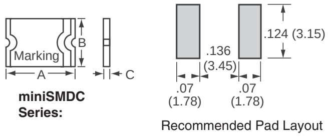

The miniSMD resettable devices extremely small size makes them excellent choices for keyboard and mouse ports, SCSI devices, battery packs, PC cards and sockets, cellular modems and phones, and portable electronic equipment. SMT packaging for automated assembly compared to SMD the miniSMD offers: 40% reduction in size, 300% faster time to trip, 50% reduction in DC resistance, 66% reduction in profile, 80% reduction in mass and drop in replacement for the NANO 2 device in many applications.

Fig. 12 — microSMD

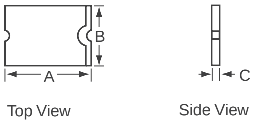

This product series is designed for surface-mount applications. Its smaller component size enables installation on crowded printed circuit boards and in small end-user devices such as digital cameras, personal digital assistants (PDAs) and palm-top computers. The new low hold current devices are ideal for protecting industrial sensors and data acquisition systems.

Fig. 13 — nanoSMD

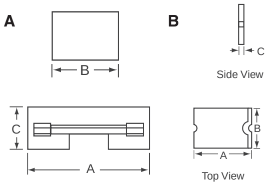

The nanoSMD series reduces the component size to a 1206 footprint, nearly half the size of the microSMD series and one-quarter the size of the popular miniSMD series. The industries fastest time to trip. Smaller size saves board space and cost. Compatible with high volume electronics assembly.

Fig.	Max. Voltage	Rated Current (20°C) (A) Hold	Trip	Maximum Current (A)	R_1Max. Initial (Ω)	Recognized By	Dimensions – Inches (mm) A (Maximum)	B (Maximum)	C (Maximum)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Size	Pricing	Raychem Part No.
miniSMD																
11	60	0.14	0.34	10	6.0	UL, TUV, CSA	.186 (4.72)	.134 (3.40)	.035 (.89)	MINISMDC014CT-ND	.63	.55	.50	2,000	293.02/M	MINISMDC014-2
11	24	0.50	1.00	40	1.0	UL, TUV, CSA	.186 (4.72)	.134 (3.40)	.025 (.64)	MINISMDC050CT-ND	.54	.47	.43	2,000	283.86/M	MINISMDC050-2
11	13.2	0.75	1.50	40	.45	UL, TUV, CSA	.186 (4.72)	.134 (3.40)	.025 (.64)	MINISMDC075CT-ND	.63	.55	.50	2,000	293.02/M	MINISMDC075-2
11	8	1.1	2.2	40	.21	UL, TUV, CSA	.186 (4.72)	.134 (3.40)	.025 (.64)	MINISMDC110CT-ND	.63	.55	.50	2,000	238.08/M	MINISMDC110-2
11	6	1.5	3.0	40	.11	UL, TUV, CSA	.186 (4.72)	.134 (3.40)	.019 (.48)	MINISMDC150CT-ND	.63	.55	.50	2,000	293.02/M	MINISMDC150-2
11	6	2.0	4.0	40	.07	UL, TUV, CSA	.186 (4.72)	.134 (3.40)	.048 (1.22)	MINISMDC200CT-ND	.79	.68	.63	2,000	361.52/M	MINISMDC200-2
microSMD																
12	30	0.05	0.15	10	50	UL, TUV, CSA	.135 (3.43)	.110 (2.79)	.034 (.86)	MICROSMD005CT-ND	.63	.55	.50	4,000	350.45/M	MICROSMD005-2
12	30	0.10	0.25	10	15	UL, TUV, CSA	.135 (3.43)	.110 (2.79)	.034 (.86)	MICROSMD010CT-ND	.72	.64	.55	4,000	441.00/M	MICROSMD010-2
12	6	0.35	0.75	40	1.3	UL, TUV, CSA	.135 (3.43)	.110 (2.79)	.025 (.64)	MICROSMD035CT-ND	.65	.58	.49	4,000	441.00/M	MICROSMD035-2
12	13.2	0.50	1.0	40	.90	UL, TUV, CSA	.135 (3.43)	.110 (2.79)	.025 (.64)	MICROSMD050CT-ND	.63	.55	.50	4,000	305.00/M	MICROSMD050-2
12	6	0.75	1.5	40	.40	UL, TUV, CSA	.135 (3.43)	.110 (2.79)	.025 (.64)	MICROSMD075CT-ND	.63	.55	.50	4,000	305.00/M	MICROSMD075-2
12	6	1.10	2.2	40	.21	UL, TUV, CSA	.135 (3.43)	.110 (2.79)	.019 (.48)	MICROSMD110CT-ND	.63	.55	.50	4,000	305.00/M	MICROSMD110-2
12	6	1.50	3.0	40	.11	UL, TUV, CSA	.135 (3.43)	.110 (2.79)	.048 (1.22)	MICROSMD150CT-ND	.70	.60	.55	4,000	335.00/M	MICROSMD150-2
nanoSMD																
13A	6	0.50	1.00	40	0.7	UL, TUV, CSA	.134 (3.40)	.071 (1.80)	.047 (1.19)	NANOSMDM050CT-ND	.66	.57	.52	3,000	318.00/M	NANOSMDM050-2
13A	6	.75	1.50	40	0.29	UL, TUV, CSA	.134 (3.40)	.071 (1.80)	.047 (1.19)	NANOSMDM075CT-ND	.66	.57	.52	3,000	318.00/M	NANOSMDM075-2
13A	6	1.00	1.80	40	0.21	UL, TUV, CSA	.134 (3.40)	.071 (1.80)	.047 (1.19)	NANOSMDM100CT-ND	.66	.57	.52	3,000	273.59/M	NANOSMDM100-2
13B	6	1.50	3.00	40	0.11	UL, TUV, CSA	.134 (3.40)	.075 (1.91)	.055 (1.40)	NANOSMDC150CT-ND	.66	.57	.52	3,000	273.59/M	NANOSMDC150-2

† For Tape and Reel part number, change CT-ND to TR-ND.

Fast Acting SMD Fuses

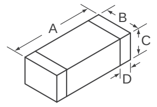

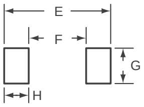

Benefits: • Small size with high current ratings • Excellent temperature stability • High reliability and resilience • Strong arc suppression characteristics
Target Applications: • Laptops • Digital cameras • Cell phones • Printers • DVD players • Portable electronics • Game systems • LCD displays • Scanners
Features: • Monolithic, multilayer design • Lead-free construction • High temperature performance • Operating Temperature Range: -55°C ~ 125°C
Agency Approvals: UL File# E197536

Rated Current (A)	Nominal Cold DCR^2 (Ω)	Max. Interrupt Ratings Voltage (V_{DC})	Current (A)	Dimensions -Inches (mm) A	B	C	D	E	F	G	H	Digi Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Size	Pricing	Raychem Part No
0402 Series																		
1.00	0.120	24	35	1.00 (25.4)	0.51 (12.95)	0.51 (12.95)	0.25 (6.35)	1.60 (40.64)	0.40 (10.16)	0.70 (17.78)	0.60 (15.24)	0402SFF100F/24CT-ND	.67	.57	.53	10,000	225.00/M	0402SFF100F/24-2
1.50	0.056											0402SFF150F/24CT-ND	.67	.57	.53	10,000	225.00/M	0402SFF150F/24-2
2.00	0.035											0402SFF200F/24CT-ND	.67	.57	.53	10,000	225.00/M	0402SFF200F/24-2
3.00	0.021											0402SFF300F/24CT-ND	.67	.57	.53	10,000	225.00/M	0402SFF300F/24-2
4.00	0.014											0402SFF400F/24CT-ND	.67	.57	.53	10,000	225.00/M	0402SFF400F/24-2
0603 Series																		
1.00	0.131	32	50	1.60 (40.64)	0.80 (20.32)	0.80 (20.32)	0.36 (9.14)	2.80 (71.12)	0.60 (15.24)	1.00 (25.4)	1.09 (27.69)	0603SFF100F/32CT-ND	.63	.54	.50	4,000	240.00/M	0603SFF100F/32-2
1.50	0.059	32	35									0603SFF150F/32CT-ND	.63	.54	.50	4,000	240.00/M	0603SFF150F/32-2
2.00	0.044	32	35									0603SFF200F/32CT-ND	.63	.54	.50	4,000	240.00/M	0603SFF200F/32-2
2.50	0.032	32	35									0603SFF250F/32CT-ND	.63	.54	.50	4,000	240.00/M	0603SFF250F/32-2
3.00	0.025	32	35									0603SFF300F/32CT-ND	.63	.54	.50	4,000	240.00/M	0603SFF300F/32-2
3.50	0.024	32	35									0603SFF350F/32CT-ND	.63	.54	.50	4,000	240.00/M	0603SFF350F/32-2
4.00	0.018	32	35									0603SFF400F/32CT-ND	.63	.54	.50	4,000	240.00/M	0603SFF400F/32-2
5.00	0.013	32	35									0603SFF500F/32CT-ND	.63	.54	.50	4,000	240.00/M	0603SFF500F/32-2
6.00	0.010	24	35									0603SFF600F/32CT-ND	.63	.54	.50	4,000	240.00/M	0603SFF600F/32-2
1206 Series																		
1.00	0.220	63	50	3.20 (81.28)	1.60 (40.64)	1.10 (27.94)	0.51 (12.95)	4.40 (111.76)	1.50 (38.10)	1.80 (45.72)	1.45 (36.83)	1206SFF100F/63CT-ND	.60	.51	.47	3,000	260.00/M	1206SFF100F/63-2
1.50	0.120	63	50									1206SFF150F/63CT-ND	.60	.51	.47	3,000	260.00/M	1206SFF150F/63-2
1.75	0.100	63	50									1206SFF175F/63CT-ND	.60	.51	.47	3,000	260.00/M	1206SFF175F/63-2
2.00	0.050	63	50									1206SFF200F/63CT-ND	.60	.51	.47	3,000	260.00/M	1206SFF200F/63-2
2.50	0.035	32	50									1206SFF250F/32CT-ND	.60	.51	.47	3,000	260.00/M	1206SFF250F/32-2
3.00	0.031	32	50									1206SFF300F/32CT-ND	.60	.51	.47	3,000	260.00/M	1206SFF300F/32-2
4.00	0.022	32	45									1206SFF400F/32CT-ND	.60	.51	.47	3,000	260.00/M	1206SFF400F/32-2
5.00	0.015	32	45									1206SFF500F/32CT-ND	.60	.51	.47	3,000	260.00/M	1206SFF500F/32-2

† For Tape and Reel part number, change CT-ND to TR-ND.

Overcurrent Fuses — FT600 Series

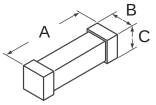

Benefits: • When combined with a SiBar™ overvoltage protection device, assists equipment in meeting regulatory standards with no additional series components • Improved temperature rise performance over other similar SMT fuse devices under sneak current testing • High density placement in multi-port system designs **Target Applications:** • xDSL and ADSL linecards and modems • T1/E1 systems • Twisted pair telecom ports requiring Telcordia GR-1089, UL60950 and FCC Part 68 compliance **Features:** • The lightning robust surface-mount fuse offers overcurrent protection from power faults • Designed to assist equipment in complying with telecom specifications including UL60950, FCC Part 68, and Telcordia GR-1089 **Specifications:** • **Termination Material:** Silver-plated brass • **Body Material:** Ceramic

Ampere Rating (A)	Voltage Rating (V)	Typical Resistance Ω	Dimensions Inches (mm) A	B	C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel† Size	Pricing	Raychem Part No.
1.25	250	0.1	0.413 (10.5)	0.133 (3.4)	0.133 (3.4)	FT600-1250CT-ND	.88	.75	.69	2,500	420.00/M	FT600-1250-2
2.00	250	0.05	0.413 (10.5)	0.133 (3.4)	0.133 (3.4)	FT600-2000CT-ND	.88	.75	.69	2,500	420.00/M	FT600-2000-2

† For Tape and Reel part number, change CT-ND to TR-ND.

tyco Electronics

Raychem CIRCUIT PROTECTION

PolySwitch® TSM600-250

The TSM600-250 is an overcurrent protection device designed for DSL and other telecommunications network equipment applications. The TSM600-250 incorporates two matched, low-resistance PPTC components into a single device yielding balanced protection on tip-and-ring lines with minimal attenuation of data transmission.

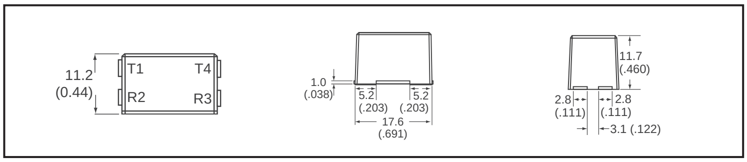

Operating Voltage (Vdc)	IHOLD (mA) @20°C	@60°C	Resistance (Ohms)* RMin.	RTyp.	R1Max.**	Time to Trip @3A (Seconds) Typ.	Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 200	Raychem Part No.
250	250	140	1.0	3.5	7.0	0.8	6	TSM600-250-2CT-ND	2.52	2.31	2.10	TSM600-250-2TR-ND	379.80	TSM600-250-2
250	250	140	1.0	3.0	5.0	1.0	6	TSM600-250-RA-2CT-ND	2.66	2.44	2.22	TSM600-250-RA-2TR-ND	398.70	TSM600-250-RA-2

* Resistance per PPTC device ** Maximum device resistance, measured 1-hour post reflow or post trip

PolySwitch®
Resettable Devices — TR Series

These product families help provide protection against power cross and power induction surge as defined in ITU, Telcordia, and UL.

Fig. 1 —
TR Series

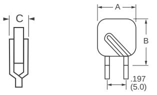

Fig. 2 —
Encapsulated
TR Series

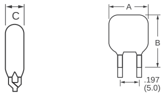

Fig.	Max. Volt.	Oper. Volt. (Vdc)	Rated Current (20°C) (Amps) Hold	Trip	Max. Current (Amps)	RMax. Initial (Ohms)	Recognized By	Dimensions Inches (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Raychem Part No.
1	250	60	0.080	0.16	3	20.0	UL, TUV, CSA	0.189 (4.80)	0.366 (9.30)	0.150 (3.80)	TR080U-ND*	.66	.61	.55	TR250-080U
	250	60	0.120	0.24	3	10.0	UL, TUV, CSA	0.236 (6.00)	0.394 (10.00)	0.150 (3.80)	TR120U-ND*	.66	.61	.55	TR250-120U
	250	60	0.145	0.29	3	6.5	UL, TUV, CSA	0.236 (6.00)	0.394 (10.00)	0.150 (3.80)	TR145U-ND*	.66	.61	.55	TR250-145U
2	250	60	0.120	0.24	3	8.0	UL, TUV, CSA	0.256 (6.50)	0.433 (11.00)	0.180 (4.60)	TR120-ND*	.70	.65	.59	TR250-120
	250	60	0.145	0.29	3	6.0	UL, TUV, CSA	0.256 (6.50)	0.433 (11.00)	0.180 (4.60)	TR145-ND*	.70	.65	.59	TR250-145
	600	60	0.150	0.30	3	12.0	UL, CSA	0.531 (13.50)	0.496 (12.60)	0.236 (6.00)	TR150-ND*	1.10	1.01	.92	TR600-150
	600	60	0.150	0.30	3	10.0	UL, CSA	0.531 (13.50)	0.496 (12.60)	0.236 (6.00)	TR150RA-ND*	1.24	1.14	1.04	TR600-150-RA-B-0.5

***** Warning: TR devices are not intended for continuous utility line voltage such as 120/220V or 240Vdc. Operating Voltage: 60Vdc

SiBar Thyristor Surge Protectors

SiBar thyristor surge protectors are designed specifically for telecommunications and computer telephony applications, including: • Modems • Fax machines • PBX Systems • Phones • POS Systems • Analog and digital linecards • Other customer premise and network equipment requiring protection.

Features: • Bidirectional transient voltage protection • High off-state impedance • Low on-state voltage • High surge capability • Short-circuit failure mode • Surface-mount technology • UL 497B recognized, file #E179610 SiBar thyristor surge protectors are bidirectional silicon devices that foldback in the presence of transient overvoltage faults. When the breakover voltage of a SiBar device is exceeded, the device switches from high to low impedance to protect sensitive downstream equipment from harmful voltage surges. The device remains latched in a low-impedance state until the current decreases below the hold current, at which point the device returns to its high-impedance state. SiBar devices may be used in conjunction with PolySwitch resettable devices in telecommunications applications, including network equipment and customer premise equipment. Proper selection of both devices can provide reliable, self-resetting overvoltage and overcurrent protection, allowing designers to meet worldwide telecommunications standards and to lower equipment-service and warranty cost.

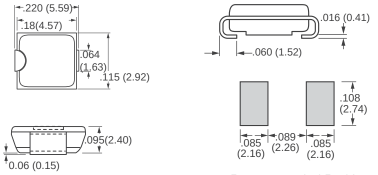

Recommended Pad Layout

V_{DM} Max. (V)	V_{BO} Max. (V)	I_H Min. (mA)	V_T Max. (V)	C_1 Typ. (pF)	I_{TSM} Min. (A)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Raychem Part No.
215	325	200	5.0	20	22	TVB280CT-ND	1.07	.92	.85	—	—	—	TVB280-050
270	370	175	5.0	50	60	TVB270SCCT-ND	1.50	1.29	1.18	TVB270SCTR-ND	2,500	504.24/M	TVB270SC
200	320	175	5.0	50	60	TVB200SCCT-ND	1.50	1.29	1.18	TVB200SCTR-ND	2,500	504.24/M	TVB200SC
170	265	175	5.0	50	60	TVB170SCCT-ND	1.50	1.29	1.18	TVB170SCTR-ND	2,500	504.24/M	TVB170SC
270	370	175	5.0	20	22	TVB270SACT-ND	.74	.63	.58	TVB270SATR-ND	2,500	252.15/M	TVB270SA
200	320	175	5.0	20	22	TVB200SACT-ND	.99	.85	.78	TVB200SATR-ND	2,500	295.63/M	TVB200SA
170	265	175	5.0	20	22	TVB170SACT-ND	.99	.85	.78	TVB170SATR-ND	2,500	295.63/M	TVB170SA
270	365	175	3.0	22	22	TVA270SACT-ND	.69	.64	.58	TVA270SATR-ND	5,000	242.61/M	TVA270SA

Panasonic® Micro Chip Fuse Surface Mount

Features: • Sharp fusing characteristics (Very fast acting) • Lead free/RoHS Compliant

Applications: • Computer and peripheral equipment, mobile phone and other digital devices

Approved Safety Standards: • C-UL(CSA)C22.2 No. 248-14: File No. E194052; UL 248-14: File No. E194052

Specifications: • Operating Temperature Range: -40°C ~ 125°C • Fusing Current/Fusing Time (at 25°C): Rated current x 100% / 4 hours minimum or rated current x 200% / 1 second maximum or rated current x 300% / 0.2 seconds maximum

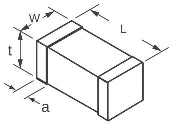

Type	Dimensions (mm) L	W	a	t
ERB-FE	1.60±0.15	0.80±0.15	0.30±0.20	0.70 +0.15 -0.10
ERB-SE	1.60±0.15	0.80±0.15	0.30±0.20	0.70±0.10
ERB-SD	1.00±0.10	0.50±0.10	0.20±0.15	0.40±0.10

Rated Current (A)	Rated Voltage (VDC)	Marking Code	Internal R. (mOhms) Max. @ 25°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Panasonic Part No.
ERB-FE Series — 0603											
4.0	24	S	22	P11359CT-ND	.42	.39	.30	—	—	—	ERB-FE4R00U
ERB-SE Series — 0603											
0.5	32	F	370	P11369CT-ND	.50	.47	.35	P11369TR-ND	5,000	192.04/M	ERB-SE0R50U
0.75	32	G	245	P11370CT-ND	.50	.47	.35	P11370TR-ND	5,000	192.04/M	ERB-SE0R75U
1.0	32	H	155	P11371CT-ND	.50	.47	.35	P11371TR-ND	5,000	192.04/M	ERB-SE1R00U
1.25	32	J	120	P11372CT-ND	.50	.47	.35	P11372TR-ND	5,000	192.04/M	ERB-SE1R25U
1.5	32	K	90	P11373CT-ND	.50	.47	.35	P11373TR-ND	5,000	192.04/M	ERB-SE1R50U
2.0	32	N	60	P11374CT-ND	.50	.47	.35	P11374TR-ND	5,000	192.04/M	ERB-SE2R00U
2.5	32	O	48	P11375CT-ND	.50	.47	.35	P11375TR-ND	5,000	192.04/M	ERB-SE2R50U
3.0	32	P	36	P11376CT-ND	.50	.47	.35	P11376TR-ND	5,000	192.04/M	ERB-SE3R00U
ERB-SD Series — 0402											
0.5	24	F	330	P11361CT-ND	.50	.47	.35	P11361TR-ND	10,000	192.04/M	ERB-SD0R50U
0.75	24	G	200	P11362CT-ND	.50	.47	.35	P11362TR-ND	10,000	192.04/M	ERB-SD0R75U
1.0	24	H	135	P11363CT-ND	.50	.47	.35	P11363TR-ND	10,000	192.04/M	ERB-SD1R00U
1.25	24	J	100	P11364CT-ND	.50	.47	.35	P11364TR-ND	10,000	192.04/M	ERB-SD1R25U
1.5	24	K	80	P11365CT-ND	.50	.47	.35	P11365TR-ND	10,000	192.04/M	ERB-SD1R50U
2.0	24	N	53	P11366CT-ND	.50	.47	.35	P11366TR-ND	10,000	192.04/M	ERB-SD2R00U
2.5	24	O	40	P11367CT-ND	.50	.47	.35	P11367TR-ND	10,000	192.04/M	ERB-SD2R50U
3.0	24	P	33	P11368CT-ND	.50	.47	.35	P11368TR-ND	10,000	192.04/M	ERB-SD3R00U

BOURNS Multifuse Resettable Overcurrent Protectors

Bourns' Multifuse products provide overcurrent protection against circuit faults and safeguard against potential overcurrent damage of critical circuitry and loads in a vast amount of applications.
Agency Approvals: • MF-R, MF-RX, MF-USMD, MF-MSMD, MF-SM, MF-MSMF – UL, CSA, TUV Approved • MF-NSMF – UL Approved • MF-SMDF – Agency Recognition Pending.

Fig. 1

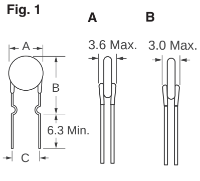

Fig. 2

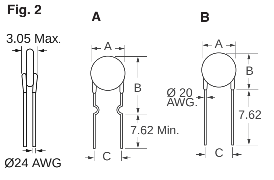

Fig. 3

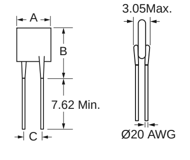

Fig. 4

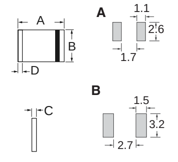

Fig. 5

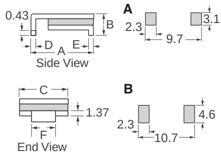

Fig. 6

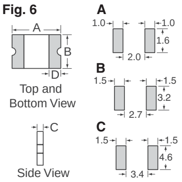

Fig.	Max. Voltage	I Max. (Amps)	Rated Current @ 23°C (Amps) Hold	Rated Current @ 23°C (Amps) Trip	Initial Resistance @ 23°C (Ohms) Min.	Initial Resistance @ 23°C (Ohms) Max.	Post-Trip Resistance	Dimensions – (mm) A (Max.)	Dimensions – (mm) B (Max.)	Dimensions – (mm) C (Nom.)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Price Each 500	Price Each 1,000	Bourns Part No.
1A	90	10	0.55	1.10	0.45	0.9	2.00	10.90	14.00	5.10	MF-R055/90-0-ND	.75	.69	.63	.50	.42	MF-R055/90-0
1B	90	10	0.55	1.10	0.45	0.9	2.00	10.30	10.30	5.10	MF-R055/90U-0-ND	.75	.69	.63	.50	.42	MF-R055/90U-0
2A	30	40	1.10	2.20	0.10	0.18	0.27	8.90	14.00	5.10	MF-R110-ND	.54	.50	.45	.36	.31	MF-R110
	30	40	1.35	2.70	0.065	0.115	0.17	8.90	18.90	5.10	MF-R135-ND	.54	.50	.45	.36	.31	MF-R135
	30	40	1.60	3.20	0.055	0.105	0.15	10.20	16.80	5.10	MF-R160-ND	.60	.55	.50	.41	.36	MF-R160
	30	40	1.85	3.70	0.04	0.07	0.11	12.00	18.40	5.10	MF-R185-ND	.60	.55	.50	.40	.35	MF-R185
	60	40	0.10	0.20	2.50	4.50	7.50	7.40	12.70	5.10	MF-R010-ND	.48	.44	.40	.32	.26	MF-R010
	60	40	0.17	0.34	2.0	3.2	8.00	7.40	12.70	5.10	MF-R017-ND	.48	.44	.40	.32	.28	MF-R017
	60	40	0.20	0.40	1.50	2.84	4.40	7.40	12.70	5.10	MF-R020-ND	.51	.47	.43	.34	.29	MF-R020
	60	40	0.25	0.50	1.00	1.95	3.00	7.40	12.70	5.10	MF-R025-ND	.51	.47	.43	.34	.29	MF-R025
	60	40	0.30	0.60	0.76	1.36	2.10	7.40	13.40	5.10	MF-R030-ND	.51	.47	.43	.34	.29	MF-R030
	60	40	0.40	0.80	0.52	0.86	1.29	7.40	13.70	5.10	MF-R040-ND	.54	.50	.45	.36	.30	MF-R040
	60	40	0.50	1.00	0.41	0.77	1.17	7.90	13.70	5.10	MF-R050-ND	.54	.50	.45	.35	.31	MF-R050
	60	40	0.65	1.30	0.27	0.48	0.72	9.70	15.20	5.10	MF-R065-ND	.54	.50	.45	.36	.31	MF-R065
	60	40	0.75	1.50	0.18	0.40	0.60	10.40	16.00	5.10	MF-R075-ND	.54	.50	.45	.36	.31	MF-R075
	60	40	0.90	1.80	0.14	0.31	0.47	11.70	16.70	5.10	MF-R090-ND	.54	.50	.45	.37	.32	MF-R090
2B	60	40	1.10	2.20	0.15	0.25	0.38	13.00	18.00	5.10	MF-RX110-ND	.54	.50	.45	.36	.32	MF-RX110
	60	40	1.35	2.70	0.12	0.19	0.30	14.50	19.60	5.10	MF-RX135-ND	.57	.53	.48	.38	.34	MF-RX135
	60	40	1.60	3.20	0.09	0.14	0.22	16.30	21.30	5.10	MF-RX160-ND	.60	.55	.50	.40	.35	MF-RX160
	60	40	1.85	3.70	0.08	0.12	0.19	12.80	22.90	5.10	MF-RX185-ND	.60	.55	.50	.40	.35	MF-RX185
	60	40	2.50	5.00	0.05	0.08	0.13	21.30	26.40	10.20	MF-RX250-ND	.66	.61	.55	.43	.37	MF-RX250
	60	40	3.00	6.00	0.04	0.06	0.10	24.90	30.00	10.20	MF-RX300-ND	.69	.64	.58	.46	.40	MF-RX300
	60	40	3.75	7.50	0.03	0.05	0.08	28.40	33.50	10.20	MF-RX375-ND	.72	.66	.60	.48	.42	MF-RX375
3	30	40	3.00	6.00	0.02	0.05	0.08	12.00	13.30	5.10	MF-R300-ND	.69	.64	.58	.45	.39	MF-R300
	30	40	4.00	8.00	0.01	0.03	0.05	14.40	24.80	5.10	MF-R400-ND	.72	.66	.60	.48	.42	MF-R400
	30	40	5.00	10.00	0.01	0.03	0.05	17.40	24.90	10.20	MF-R500-ND	.78	.72	.65	.52	.45	MF-R500
	30	40	6.00	12.00	0.005	0.02	0.04	19.30	31.90	10.20	MF-R600-ND	.81	.75	.68	.53	.46	MF-R600
	30	40	7.00	14.00	0.005	0.02	0.03	22.10	29.80	10.20	MF-R700-ND	.84	.77	.70	.56	.48	MF-R700
	30	40	8.00	16.00	0.005	0.02	0.03	24.21	32.90	10.20	MF-R800-ND	.87	.80	.73	.58	.51	MF-R800
	30	40	9.00	18.00	0.005	0.01	0.02	24.21	32.90	10.20	MF-R900-ND	.93	.86	.78	.61	.53	MF-R900

Fig.	Max. Volt.	I Max. (Amps)	Rated Current @ 23°C (Amps) Hold	Rated Current @ 23°C (Amps) Trip	Initial Resistance @ 23°C (Ohms) RMinimum	Post-Trip Resistance	Dimensions – (mm) A (Max.)	B (Max.)	C (Max.)	D (Min.)	E (Max.)	F (Min.)	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Tape & Reel* Size	Tape & Reel* Pricing	Bourns Part No.
4A	30.0	10	0.05	0.15	2.80	50.0	3.43	2.80	0.62	0.30	—	—	MF-USMD005CT-ND	.68	.63	.59	3,000	360.00/M	MF-USMD005-2
	30.0	10	0.10	0.30	0.80	15.0	3.43	2.80	0.62	0.30	—	—	MF-USMD010CT-ND	.68	.63	.59	3,000	360.00/M	MF-USMD010-2
	30.0	10	0.20	0.40	0.40	5.00	3.43	2.80	0.62	0.30	—	—	MF-USMD020CT-ND†	.68	.63	.59	3,000	360.00/M	MF-USMD020-2
	6.0	40	0.35	0.75	0.20	1.30	3.43	2.80	0.62	0.30	—	—	MF-USMD035CT-ND	.68	.63	.59	3,000	360.00/M	MF-USMD035-2
	13.2	40	0.50	1.00	0.18	0.90	3.43	2.80	0.62	0.30	—	—	MF-USMD050CT-ND	.71	.67	.62	3,000	380.00/M	MF-USMD050-2
	6.0	40	0.75	1.50	0.07	0.450	3.43	2.80	0.62	0.30	—	—	MF-USMD075CT-ND	.75	.68	.66	3,000	360.00/M	MF-USMD075-2
	6.0	40	1.10	2.20	0.05	0.210	3.43	2.80	0.62	0.30	—	—	MF-USMD110CT-ND	.79	.68	.66	3,000	360.00/M	MF-USMD110-2
4B	60.0	40	0.14	0.34	0.40	6.50	4.73	3.41	0.81	0.30	—	—	MF-MSMD014CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD014-2
	30.0	80	0.20	0.40	0.40	6.00	4.73	3.41	0.81	0.30	—	—	MF-MSMD020CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD020-2
	15.0	100	0.50	1.00	0.15	1.00	4.73	3.41	0.62	0.30	—	—	MF-MSMD050CT-ND	.56	.48	.44	—	—	MF-MSMD050-2
	13.2	100	0.75	1.50	0.11	0.45	4.73	3.41	0.62	0.30	—	—	MF-MSMD075CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD075-2
	6.0	100	1.10	2.20	0.04	0.21	4.73	3.41	0.62	0.30	—	—	MF-MSMD110CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD110-2
	6.0	100	1.25	2.50	0.035	0.14	4.73	3.41	0.48	0.30	—	—	MF-MSMD125CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD125-2
	6.0	100	1.50	3.00	0.03	0.120	4.73	3.41	0.48	0.30	—	—	MF-MSMD150CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMD150-2
5A	60	40	0.30	0.60	0.900	4.80	7.98	3.18	5.44	0.71	0.71	2.16	MF-SM030CT-ND	.63	.54	.50	2,000	360.00/M	MF-SM030-2
	60	40	0.50	1.00	0.350	1.40	7.98	3.18	5.44	0.71	0.71	2.16	MF-SM050CT-ND	.63	.54	.50	2,000	360.00/M	MF-SM050-2
	33	40	1.10	2.20	0.120	0.41	7.98	3.00	5.44	0.71	0.71	2.16	MF-SM100/33-2CT-ND	.70	.60	.55	2,000	400.00/M	MF-SM100/33-2
	30	80	0.75	1.50	0.230	1.00	7.98	3.18	5.44	0.71	0.71	2.16	MF-SM075CT-ND	.63	.54	.50	2,000	360.00/M	MF-SM075-2
	30	80	1.10	2.20	0.120	0.48	7.98	3.00	5.44	0.71	0.71	2.16	MF-SM100CT-ND	.63	.54	.50	2,000	354.00/M	MF-SM100-2
	15	100	1.25	2.50	0.070	0.25	7.98	3.00	5.44	0.71	0.71	2.16	MF-SM125CT-ND	.63	.54	.50	2,000	354.00/M	MF-SM125-2
	6	100	2.60	5.20	0.025	0.075	7.98	3.00	5.44	0.71	0.71	2.16	MF-SM260CT-ND	.63	.54	.50	2,000	360.00/M	MF-SM260-2
5B	33	40	1.50	3.00	0.060	0.23	9.50	3.00	6.71	0.71	0.71	3.68	MF-SM150/33-2CT-ND	.70	.60	.55	1,500	400.00/M	MF-SM150/33-2
	15	100	1.50	3.00	0.060	0.25	9.50	3.00	6.71	0.71	0.71	3.94	MF-SM150CT-ND	.63	.54	.50	1,500	360.00/M	MF-SM150-2
	15	100	2.00	4.00	0.045	0.125	9.50	3.00	6.71	0.71	0.71	3.94	MF-SM200CT-ND	.67	.57	.53	1,500	380.00/M	MF-SM200-2
	15	100	2.50	5.00	0.024	0.085	9.50	3.00	6.71	0.71	0.71	3.94	MF-SM250CT-ND	.67	.57	.53	1,500	380.00/M	MF-SM250-2
6A	13.2	100	0.50	1.00	0.15	0.70	3.40	1.80	0.85	0.25	—	—	MF-NSMF-050-2CT-ND	.70	.60	.55	3,000	400.00/M	MF-NSMF-050-2
	6.0	100	0.75	1.50	0.10	0.29	3.40	1.80	0.85	0.25	—	—	MF-NSMF-075-2CT-ND	.70	.60	.55	3,000	400.00/M	MF-NSMF-075-2
	6.0	100	1.10	1.80	0.06	0.20	3.40	1.80	1.35	0.25	—	—	MF-NSMF-110-2CT-ND	.70	.60	.55	3,000	400.00/M	MF-NSMF-110-2
	6.0	100	1.50	3.00	0.03	0.13	3.40	1.80	1.35	0.25	—	—	MF-NSMF-150-2CT-ND	.70	.60	.55	3,000	400.00/M	MF-NSMF-150-2
6B	60.0	40	0.10	0.30	0.70	15.00	4.73	3.41	1.10	0.30	—	—	MF-MSMF010-2CT-ND	.56	.48	.44	1,500	320.00/M	MF-MSMF010-2
	60.0	40	0.14	0.34	0.40	6.50	4.73	3.41	1.10	0.30	—	—	MF-MSMF014-2CT-ND	.56	.48	.44	1,500	320.00/M	MF-MSMF014-2
	30.0	80	0.20	0.40	0.40	6.00	4.73	3.41	1.10	0.30	—	—	MF-MSMF020-2CT-ND	.56	.48	.44	1,500	320.00/M	MF-MSMF020-2
	30.0	10	0.30	0.60	0.30	3.00	4.73	3.41	1.10	0.30	—	—	MF-MSMF030-2CT-ND	.56	.48	.44	1,500	320.00/M	MF-MSMF030-2
	15.0	100	0.50	1.00	0.15	1.00	4.73	3.41	0.85	0.30	—	—	MF-MSMF050-2CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMF050-2
	13.2	100	0.75	1.50	0.11	0.45	4.73	3.41	0.85	0.30	—	—	MF-MSMF075-2CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMF075-2
	24.0	40	0.75	1.50	0.11	0.45	4.73	3.41	0.85	0.30	—	—	MF-MSMF075/24-2CT-ND	.63	.54	.50	2,000	360.00/M	MF-MSMF075/24-2
	6.0	100	1.10	2.20	0.04	0.21	4.73	3.41	0.75	0.30	—	—	MF-MSMF110-2CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMF110-2
	16.0	100	1.10	2.20	0.04	0.21	4.73	3.41	0.75	0.30	—	—	MF-MSMF110/16-2CT-ND	.63	.54	.50	2,000	360.00/M	MF-MSMF110/16-2
	6.0	100	1.25	2.50	0.035	0.14	4.73	3.41	0.85	0.30	—	—	MF-MSMF125-2CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMF125-2
	6.0	100	1.50	3.00	0.03	0.120	4.73	3.41	0.85	0.30	—	—	MF-MSMF150-2CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMF150-2
	8.0	100	1.60	2.80	0.035	0.099	4.73	3.41	0.85	0.30	—	—	MF-MSMF160-2CT-ND	.56	.48	.44	2,000	320.00/M	MF-MSMF160-2
	6.0	100	2.00	4.00	0.020	0.100	4.73	3.41	0.85	0.30	—	—	MF-MSMF200-2CT-ND	.70	.60	.55	2,000	400.00/M	MF-MSMF200-2
	16.0	100	2.50	5.00	0.015	0.100	4.73	3.41	2.00	0.30	—	—	MF-MSMF250/16-2CT-ND	.91	.78	.72	1,000	520.00	MF-MSMF250/16-2
	6.0	100	2.60	5.20	0.015	0.080	4.73	3.41	0.85	0.30	—	—	MF-MSMF260-2CT-ND	.70	.60	.55	—	—	MF-MSMF260-2
6C	60	10	0.55	1.20	0.200	0.950	5.44	4.93	1.09	0.30	—	—	MF-SMDF050-2CT-ND	.63	.54	.50	3,000	360.00/M	MF-SMDF050-2
	15	40	1.50	3.00	0.070	0.175	5.44	4.93	1.09	0.30	—	—	MF-SMDF150-2CT-ND	.63	.54	.50	3,000	360.00/M	MF-SMDF150-2

***** For Tape and Reel part number, change CT-ND to TR-ND. † UL Pending

Littelfuse® ESD Transient Voltage Suppression Arrays

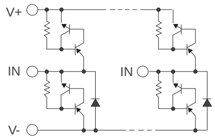

Functional Block Diagram

This is an array of SCR/Diode bipolar structures for ESD and over-voltage protection.

The SCR Structures are designed for fast triggering, if a transient pulse is detected with a voltage level greater than one V_{BE}, negative or positive pulse, above V+ or below V- the device will be activated.

Some of the applications where this device works very well is for Microprocessor/Logic Input Protection, Data Buss Protection, Analog Device Input Protection, or a Voltage Clamp.

Features:
- Fast Switching Times
- Low Input Leakage
- Low Input Capacitance
- Operating Temperature Range: -40°C ~ 105°C

ESD Human Body Model (HBM) Capability for SP720 – SP721

HBM Standard	Mode	R	C	ESD(V)
IEC 1000-4-2	*Air* *Direct* *Direct, Dual Pins*	*330Ω* *330Ω* *330Ω*	*150pF* *150pF* *150pF*	*>15kV* *>4kV* *>8kV*
MIL-STD-3015.7	*Direct, In-Circuit*	*1.5kΩ*	*100pF*	*>15kV*

ESD Human Body Model (HBM) Capability for SP723 – SP724

HBM Standard	Mode	RD Dischg. Resistor	CD Dischg. Cap.	±VDDischg. Voltage
IEC 1000-4-2 (Level 4)	*HBM, Air Discharge* *HBM, Direct Discharge*	*330Ω* *330Ω*	*150pF* *150pF*	*15kV* *8kV*
MIL-STD-3015.7	*Modified HBM* *Standard HBM*	*1.5kΩ* *1.5kΩ*	*100pF* *100pF*	*8kV* *2kV*
EIAJ IC121	*Machine Model*	*0kΩ*	*200pF*	*400V*

Package	No. of Input Arrays per Package	Operating Voltage (V supply)	Input Leakage Current (nA)	Quiescent Supply Current (nA)	Equivalent SCR ON Threshold (V)	Equivalent SCR ON Resistance (Ohms)	Input Capacitance (pF)	Input Switch Speed (nSec)	Digi-Key Part No.	Price Each 1	10	100	Littelfuse Part No.
16-SOIC	14	2-30	5	50	1.1	1	3	2	F2163-ND	3.06	2.82	2.12	SP720AB
16-Dip	14	2-30	5	50	1.1	1	3	2	F2164-ND	3.06	2.82	2.12	SP720AP
8-SOIC	6	2-30	5	50	1.1	0.5	5	2	F2167-ND	2.80	2.58	1.94	SP723AB
8-Dip	6	2-30	5	50	1.1	0.5	5	2	F2168-ND	2.86	2.64	1.98	SP723AP
SOT-23 (6 pin)	4	1-20	1	100 (Max.)	1.1	1	3	—	F2169CT-ND*	1.58	1.47	1.11	SP724AHT

* For Tape and Reel pricing, change CT-ND to TR-ND and call Digi-Key for pricing. ***NOTE:*** The SP724 is covered by Littelfuse patent 4567500

PTC Resettable Devices Surface Mount

1812L Series

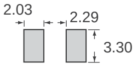

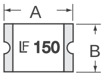

(TOP VIEW)

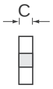

Series	Dimensions (mm) A (max.)	B (max.)	C
1812L 050-150	4.47	3.15	0.61
1812L 200-260	4.47	3.15	1.13

1206L Series

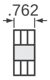

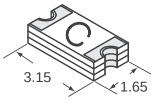

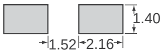

PTC Resettable devices utilize a unique polymer-based, Positive Temperature Coefficient (PTC) material to protect electrical circuits against overcurrent conditions.

PTC Resettable Operation:

In normal operation, the Littelfuse PTC has many conductive paths and a very low resistance. In an overcurrent condition, the temperature of the polymer material rises. This dramatically reduces the conductive paths resulting in an immediate rise in resistance. In this condition the device provides circuit protection by significantly limiting the flow of current. However, once the cause of the initial overcurrent condition is eliminated, the Littelfuse PTC cools down and resets to a low resistance value permitting the normal current flow to resume.

Agency Approvals:

• UL: Recognized under Components Program of Underwriters Laboratories • CSA: Recognized under Component Acceptance Program of the Canadian Standards Association • TUV approved

ELECTRICAL DEFINITIONS:

• **Ihold**: Hold Current: maximum current device will sustain for 4 hours without switching at 20°C • **Itrip**: Trip Current: minimum current that will switch the device into a high resistance state at 20°C • **Isc**: Maximum short circuit current device can withstand at rated voltage • **Ril**: Minimum initial resistance of device at 20°C, prior to tripping • **Rat**: Maximum measured resistance in the nontripped state 1 hour post reflow with reflow conditions of 245°C for 20 seconds.

NOTE: *Devices are not intended to be used for continual, repeated tripping.* ***CAUTION:*** *Operation beyond the specified ratings may result in damage and possible arcing and flame.*

Series	Ihold (A)	Itrip (A)	Volt. Rating (V)	Isc (A)	Max. Time to Trip Current (A)	Time (Sec)	Resistance (Ω) Ril	Rat	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Littelfuse Part No.
1812L	0.50	1.00	15.0	40	8.0	0.15	0.100	1.000	F2156CT-ND	.60	.56	.43	F2156TR-ND	2,000	232.20/M	1812L050PRT
	0.75	1.50	13.2	40	8.0	0.30	0.060	.420	F2157CT-ND	.60	.56	.43	F2157TR-ND	2,000	232.20/M	1812L075PRT
	1.10	2.20	6.0	40	8.0	0.30	0.050	.226	F2158CT-ND	.60	.56	.43	F2158TR-ND	2,000	232.20/M	1812L110PRT
	1.25	2.50	6.0	40	8.0	0.30	0.040	.184	F2159CT-ND	.60	.56	.43	F2159TR-ND	2,000	232.20/M	1812L125PRT
	1.50	3.00	6.0	40	8.0	0.30	0.032	.137	F2160CT-ND	.60	.56	.43	F2160TR-ND	2,000	232.20/M	1812L150PRT
	2.00	4.00	6.0	40	8.0	2.50	0.018	.070	F2161CT-ND	.87	.81	.61	F2161TR-ND	1,000	359.60	1812L200MR
	2.60	5.20	6.0	40	8.0	2.50	0.010	.005	F2155CT-ND	.87	.81	.61	F2155TR-ND	1,000	359.60	1812L260MR
1206L	0.20	0.40	15.0	40	8.0	0.05	0.600	2.50	F2109CT-ND	.70	.65	.49	F2109TR-ND	4,000	268.65/M	1206L020YRT
	0.25	0.50	15.0	40	8.0	0.08	0.550	2.30	F2110CT-ND	.70	.65	.49	F2110TR-ND	4,000	268.65/M	1206L025YRT
	0.35	0.70	6.0	40	8.0	0.10	0.300	1.30	F2111CT-ND	.70	.65	.49	F2111TR-ND	4,000	268.65/M	1206L035YRT
	0.50	1.00	6.0	40	8.0	0.10	0.090	0.60	F2112CT-ND	.70	.65	.49	F2112TR-ND	3,000	268.65/M	1206L050WRT
	0.75	1.50	6.0	40	8.0	0.20	0.070	0.30	F2113CT-ND	.70	.65	.49	F2113TR-ND	3,000	268.65/M	1206L075WRT
	1.10	2.20	6.0	40	8.0	0.30	0.040	0.18	F2114CT-ND	.70	.65	.49	F2114TR-ND	3,000	268.65/M	1206L110WRT
	1.50	3.00	6.0	40	8.0	0.30	0.030	0.12	F2115CT-ND	.70	.65	.49	F2115TR-ND	3,000	268.65/M	1206L150WRT

Littelfuse®

PulseGuard ® SMT ESD Suppressor

Fig. 1 – 0603

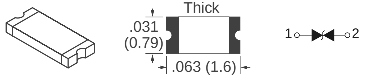

Fig. 2 – SOT-23

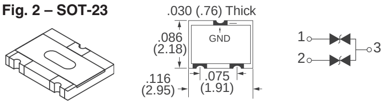

Fig. 3 – 0805

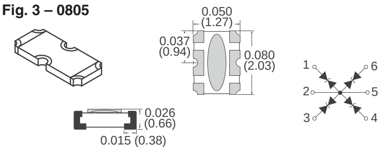

PulseGuard ESD suppressors provide protection for electronic devices against the threat of electrostatic discharge (ESD). Employing a voltage variable material to switch between high resistance and low resistance states, shunting ESD transients away from sensitive circuitry. PulseGuard suppressors comply with ESD specifications (IEC 61000-4-2, MIL-STD-883C (Packages: 0402,0603), MIL-STD-883E (Packages: 0805, SOT-23), USB, IEEE1394, and Infiniband^{SM}

Electrical Specifications:

- **Trigger Voltage *(1.)*:** 1,000V typical • **Clamping Voltage *(1.)*:** 150V typical • **Rated Voltage:** 24VDC, maximum • **Capacitance *(2.)*:** 0.055pF • **Response Time *(1.)*:** <1 ns • **Leakage Current:** <1nA • **ESD Pulse Withstand *(1.)*:** 1,000 pulses minimum • **Operating Temperature:** -65°C ~ 125°C

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape & Reel Pricing
1	F2594CT-ND§	.75	.70	F2594TR-ND§	309.00/1,000
2	F1321CT-ND F2596CT-ND§	1.31 1.44	1.22 1.34	— F2596TR-ND§	— 1662.00/3,000
3	F2595CT-ND§	2.20	2.05	F2595TR-ND§	912.00/1,000

§ *RoHS Compliant*

Notes:

1. *8kV direct discharge method, per IEC61000-4-2*

2. *Measured at 6VDC. Testing at fast ESD pulse rated (1~20 Hz) may cause a change in leakage current performance (6μA, maximum)*

Telecom Nano$^{2®}$ Fuse "0461" Series

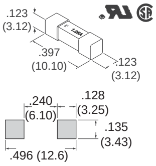

% of Amp. Rating	Opening Time (Minimum/Maximum)
100%	4 hours, minimum
250%	1 sec, minimum; 120 maximum

Surface mount overcurrent protection from power cross and allows compliance with lightning surges. Meets UL 60950 3rd Edition (formerly UL 1459) power cross requirements stand alone. Designed to allow compliance with Bellcore/Telcordia GR-1089-CORE and TIA-968-A Surge Specifications.

- **Interrupting Ratings:** 50A at 250VAC • **Operating Temperature Range:** -55°C ~ 125°C • **Materials:** Body: Ceramic; Terminations: Silver Plated Brass Caps • **Soldering Parameters:** Reflow Solder -230°C, 30 seconds maximum. Wave solder -260°C, 3 seconds maximum • **Packaging Specifications:** 24mm Tape and Reel per EIA-RS481. (IEC 286 part 3); 2500 fuses per reel

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 2,500
0461 Series						
.5	F1449CT-ND	1.60	1.49	1.12	F1449TR-ND	617.00/M
1.25	F1550CT-ND	1.60	1.49	1.12	F1550TR-ND	617.00/M
2.00	F1551CT-ND	1.60	1.49	1.12	F1551TR-ND	617.00/M

"0402" (1005) Slimline™ Very Fast Acting Thin-Film 0435 Series

% of Amp. Rating	Opening Time (Minimum/Maximum)
100%	4 hours, minimum
200%	5 Sec., maximum
300%	0.2 Sec.,maximum

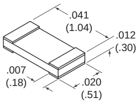

- **Operating Temperature:** -55°C ~ 90°C
- **Voltage Rating:** 24V • **Materials:** Body: Epoxy Substrate; Terminations: Copper/Nickel/Tin-Lead Cover Coat: Conformal Coating
- **Soldering Parameter:** Reflow Solder -260°C, 30 seconds maximum
- **Packaging Specification:** 8mm Paper Tape and Reel per EIA-RS481-1 (IEC 286, part 3); 10,000 per reel.
- **Interrupting Ratings:** 35A at 24 V AC/DC

Amp Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 10,000
0435 Series — Very Fast-Acting						
.250	F1440CT-ND	1.11	1.03	.78	F1440TR-ND	427.00/M
.375	F1441CT-ND	1.11	1.03	.78	F1441TR-ND	427.00/M
.500	F1442CT-ND	1.11	1.03	.78	F1442TR-ND	427.00/M
.750	F1443CT-ND	1.11	1.03	.78	F1443TR-ND	427.00/M
1.00	F1444CT-ND	1.11	1.03	.78	F1444TR-ND	427.00/M
1.25	F1445CT-ND	1.11	1.03	.78	F1445TR-ND	427.00/M
1.50	F1446CT-ND	1.11	1.03	.78	F1446TR-ND	427.00/M
1.75	F1447CT-ND	1.11	1.03	.78	F1447TR-ND	427.00/M
2.00	F1448CT-ND	1.11	1.03	.78	F1448TR-ND	427.00/M

"0603" (1608) Slimline™ Very Fast Acting Thin-Film 0434 Series

% of Amp. Rating	Opening Time at 25°C
100%	4 hours, minimum
200%	5 sec., maximum
300%	0.2 sec., maximum

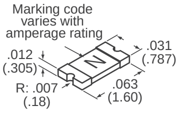

Slimline 0603 is identical to the popular (431 Series) mounting pad and electrical specifications but has a lower profile and enhanced soldering capabilities.

Specifications: • **Construction Material:** Body: Epoxy substrate; Terminations: Copper/nickel/tin-lead (95/5); Cover Coat: Conformal Coating • **Interrupting Ratings:** 50A at 32V AC/DC (.25~1A) or 35A at 32V AC/DC (1.25~5A) • **Operating Temperature:** -50°C ~ 90°C • **Voltage Rating:** 32V • **Tape and Reel Specification:** 8mm wide reels that are in compliance with EIA-RS481

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
0434 Series							
.250	D	F1360CT-ND	.92	.86	.65	—	—
.375	E	F1361CT-ND	.92	.86	.65	—	—
.750	G	F1363CT-ND	.92	.86	.65	—	—
1.25	J	F1365CT-ND	.92	.86	.65	F1365TR-ND	343.20/M
1.50	K	F1366CT-ND	.92	.86	.65	F1366TR-ND	343.20/M
2.00	N	F1368CT-ND	.92	.86	.65	—	—
5.00	T	F1372CT-ND	.92	.86	.65	—	—

"0603" (1608) *RoHS Compliant* SlimLine™ Very Fast Acting Thin-Film 0467 Series

% of Amp. Rating	Opening Time at 25°C
100%	4 hours, minimum
200%	5 sec., maximum
300%	0.2 sec., maximum

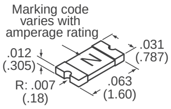

SlimLine 0603 Lead Free complies with electronic industry environmental standards for lead reduction. Product is compatible with lead-free solders and higher temperature profiles. Mounting pad and electrical performance is identical to Littelfuse 0431 and 0434 Series of product. Alloy based element construction provides superior inrush withstand characteristics (I^2t) over ceramic or glass based 0603 fuse products.

Specifications: • **Voltage Rating:** 32V AC/DC • **Construction Material:** Body: Advanced High Temperature Substrate; Terminations: Copper/Nickel/100% Tin; Element Cover Coat: Conformal Coating • **Interrupting Ratings:** 50A at 32V AC/DC (0.25 ~ 1A), 35A at 32V AC/DC (1.25 ~ 5A) • **Operating Temperature:** -55°C ~ 90°C • **Tape and Reel Specifications:** 8mm wide reels that are in compliance with EIA-RS481-2 (IEC 286, part 3)

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
0467 Series							
.250	D	F1389CT-ND•	1.02	.95	.72	F1389TR-ND	356.40/M
.375	E	F1390CT-ND•	1.02	.95	.72	F1390TR-ND	391.50/M
.500	F	F1391CT-ND•	1.02	.95	.72	F1391TR-ND	356.40/M
.750	G	F1392CT-ND•	1.26	1.17	.89	F1392TR-ND	486.00/M
1.00	H	F1393CT-ND•	1.02	.95	.72	F1393TR-ND	356.40/M
1.25	J	F1394CT-ND•	1.11	1.04	.78	F1394TR-ND	429.30/M
1.50	K	F1395CT-ND•	1.02	.95	.72	F1395TR-ND	391.50/M
1.75	L	F1396CT-ND•	1.02	.95	.72	F1396TR-ND	356.40/M
2.00	N	F1397CT-ND•	1.02	.95	.72	F1397TR-ND	391.50/M
2.50	0	F1398CT-ND•	1.02	.95	.72	F1398TR-ND	356.40/M
3.00	P	F1399CT-ND•	1.02	.95	.72	F1399TR-ND	356.40/M
3.50	R	F1400CT-ND•	1.02	.95	.72	F1400TR-ND	356.40/M
4.00	S	F1401CT-ND•	1.02	.95	.72	F1401TR-ND	356.40/M
5.00	T	F1402CT-ND•	1.02	.95	.72	F1402TR-ND	356.40/M

- **467-KIT-ND Digi-Key® 467 Series Fuse** ***Very Fast Acting Slim Line™ Lead Free*** 10 each of parts indicated, plus a plastic storage box **$99.95**

"1206" (3216) SMF Very Fast Acting Thin-Film Fuse

Dimensions - Inch (mm) A	B	C
.122 (3.10)	.063 (1.60)	.047 (1.19)

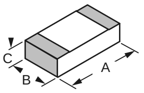

% of Amp. Rating	Opening Time at 25°C Very Fast Acting
100%	4 hours minimum
200%	5 seconds maximum
300%	0.2 seconds maximum

Specifications:

Construction Materials: Body: Epoxy Substrate, Terminations: Copper/Nickel/Tin-Lead (95/5). Cover Coat: Conformal Coating

Operating Temperature Range: -55°C ~ 125°C

Solderability: Withstands 60 seconds above 200°C up to 260°C maximum

Tape and Reel Specifications: Supplied on 8mm wide reels that are in compliance with EIA-RS481-2 (equivalent to IEC 286 part 3). Packaged 3,000 fuses per reel

Voltage Ratings: .125 ~ .375A (125V), .500 ~ 2.00A (63V), 2.5 ~ 3.0A (32V), 4.0 ~ 7.0A (24V)

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 3,000
0429 Series — Very Fast-Acting							
.200	FC	F1271CT-ND	.77	.72	.54	—	—
.250	FD	F1230CT-ND	.77	.72	.54	F1230TR-ND	295.65/M
.375	FE	F1231CT-ND	.77	.72	.54	—	—
.500	FF	F1232CT-ND	.77	.72	.54	F1232TR-ND	295.65/M
.750	FG	F1233CT-ND	.77	.72	.54	F1233TR-ND	295.65/M
1.25	FJ	F1235CT-ND	.77	.72	.54	—	—
1.75	FL	F1237CT-ND	.77	.72	.54	—	—
3.00	FP	F1273CT-ND	.77	.72	.54	F1273TR-ND	295.65/M
4.00	FS	F1274CT-ND	.77	.72	.54	F1274TR-ND	295.65/M

"1206" (3216) Slimline™ Very Fast Acting Thin-Film 0433 Series

Percent of Amp. Rating	Opening Time (Minimum/Maximum)
100%	4 hours minimum
200%	5 seconds maximum
300%	0.2 seconds maximum

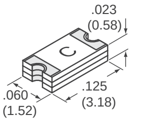

Mounting pad and electrical specification are identical to the popular (429) Series specifications.

Specifications:

Construction Materials: Body: Epoxy Substrate; Terminations: Copper/Nickel/Tin-Lead (95/5); Cover Coat: Conformal Coating

Operating Temperature: -55°C ~ 90°C

Interrupting Ratings: 0.125 ~ .375A (50A at 125V AC/DC), 0.5 ~ 2A (50A at 63V AC/DC), 2.5 ~ 3A (50A at 32V AC/DC)

Tape and Reel Specification: Supplied on 8mm wide reels that are in compliance with EIA-RS481-2 (IEC 286, part 3)

Voltage Ratings: .125 ~ .375A (125V), .500 ~ 2.00A (63V), 2.5 ~ 3.0A (32V)

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 5,000
0433 Series — Very Fast-Acting							
.125	B	F1373CT-ND	.74	.69	.52	—	—
.375	E	F1376CT-ND	.74	.69	.52	—	—
.75	G	F1379CT-ND	.74	.69	.52	—	—
.80	.8	F1380CT-ND	.74	.69	.52	—	—
1.00	H	F1381CT-ND	.74	.69	.52	—	—
1.25	J	F1382CT-ND	.74	.69	.52	—	—
1.50	K	F1384CT-ND	.74	.69	.52	—	—
1.75	L	F1385CT-ND	.74	.69	.52	—	—
2.00	N	F1386CT-ND	.74	.69	.52	F1386TR-ND	273.00/M
3.00	P	F1388CT-ND	.74	.69	.52	—	—

Littelfuse®

"1206" (3216) *Lead-Free* Slimline™ Very Fast Acting and Slo-Blo® Thin-Film 0466 and 0468 Series

% of Amp. Rating	Opening Time at 25°C	
	Very Fast Acting	Slo-Blo®
100%	4 hours minimum	—
200%	5 sec., maximum	1 sec. minimum, 120 sec. maximum
300%	0.2 sec., maximum	0.1 sec. minimum, 3 sec. maximum
800%	—	0.002 sec. minimum, .05 sec. maximum

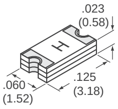

Features:
• Complies with electronic industry environmental standards for lead reduction • Product is compatible with lead-free solders and higher temperature profiles • Element covering material is resistant to industry standard cleaning operations • Mounting pad and electrical performance is identical to Littelfuse 429 and 433 Series products • Alloy based element construction provides superior inrush withstand characteristics (I²t) over ceramic or glass based 1206 chip fuse products
Specifications: • Voltage Ratings: 125V (.125~.375A), 63V (.500~2.0A), 32V (2.5A, 3.0), 24V (4~10A) **• Operating Temperature:** -55°C ~ 90°C **• Interrupting Ratings:** 0.125~.375A (50A at 125V AC/DC), 0.5~2A (50A at 63V AC/DC), 2.5~3A (50A at 32V AC/DC), 4~10A (35A at 24V AC/DC) **• Construction Material:** Body: Advanced High Temperature Substrate, Terminations: Copper/Nickel/100% Tin, Element Cover Coat: Conformal Coating
Tape and Reel Specifications: 8mm Tape and Reel per EIA-RS481-2 (IEC 286, part 3)

Amp Rate	Marking Code	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 5,000
		0466 Series — Very Fast-Acting					
.125	B	F1450CT-ND•	.74	.69	.52	F1450TR-ND	283.50/M
.2	C	F1451CT-ND•	.74	.69	.52	F1451TR-ND	283.50/M
.25	D	F1452CT-ND•	.74	.69	.52	F1452TR-ND	283.50/M
.375	E	F1453CT-ND•	.74	.69	.52	F1453TR-ND	283.50/M
.5	F	F1454CT-ND•	.74	.69	.52	F1454TR-ND	283.50/M
.75	G	F1455CT-ND•	.74	.69	.52	F1455TR-ND	283.50/M
1	H	F1456CT-ND•	.74	.69	.52	F1456TR-ND	283.50/M
1.25	J	F1465CT-ND•	.74	.69	.52	F1465TR-ND	388.80/M
1.5	K	F1462CT-ND•	.74	.69	.52	F1462TR-ND	283.50/M
1.75	L	F1466CT-ND•	.74	.69	.52	F1466TR-ND	283.50/M
2	N	F1457CT-ND•	.74	.69	.52	F1457TR-ND	283.50/M
2.5	O	F1464CT-ND•	.74	.69	.52	F1464TR-ND	283.50/M
3	P	F1458CT-ND•	.74	.69	.52	F1458TR-ND	283.50/M
4	S	F1459CT-ND•	.74	.69	.52	F1459TR-ND	283.50/M
5	T	F1460CT-ND•	.74	.69	.52	F1460TR-ND	283.50/M
		0468 Series — Slo-Blo®					
1.00	TH	F2658CT-ND	1.11	1.03	.75	F2658TR-ND	427.00/M
1.50	TK	F2569CT-ND	1.11	1.03	.75	F2569TR-ND	427.00/M
2.00	TN	F2570CT-ND	1.11	1.03	.75	F2570TR-ND	427.00/M
3.00	TP	F2571CT-ND	1.11	1.03	.75	F2571TR-ND	427.00/M

• **466-KIT-ND Digi-Key® 466 Series Fuse** *Very Fast Acting Slim Line™ Lead Free* 10 each of parts indicated, plus a plastic storage box **$89.95**

SMF Omni-Blok® Fuse Block with Nano²® Very Fast Acting and Slo-Blo® Fuses

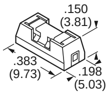

The SMF Omni-Blok® Fuseholder permits quick and easy replacement of Nano²® SMF surface mount fuses. The fuse block and pre-installed fuse combination can be placed on the PC board in one efficient manufacturing operation.

Specifications:

• **Electrical:** 10A, 125V • **Molded Parts:** Thermoplastic (94V0) • **Ambient Temperature:** -55°C ~ 125°C • **Soldering Parameters:** Infrared: 445°F (230°C), 30 seconds • **Packaging:** 16mm wide Tape and Reel per EIA Standard 481. Installed fuses have silver plated end caps, installed to accommodate solder reflow process. Use 451 Series Fast Acting Fuse with tin/lead alloy plated end caps for replacement purposes of the 154 Series product. Use 452 Series Slo-Blo® Fuse with tin/lead alloy plated end caps for replacement purposes of the 154xxxT Series.

Amp. Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,500
	154 Series – Very Fast Acting					
.250	F1219CT-ND	2.62	2.44	1.84	F1219TR-ND	1010.00/M
.500	F1220CT-ND•	2.62	2.44	1.84	F1220TR-ND	1010.00/M
.750	F1221CT-ND•	2.22	2.07	1.56	F1221TR-ND	857.00/M
1.00	F1222CT-ND•	2.22	2.07	1.56	F1222TR-ND	857.00/M
1.50	F1223CT-ND•	2.22	2.07	1.56	F1223TR-ND	857.00/M
2.00	F1224CT-ND•	2.22	2.07	1.56	F1224TR-ND	857.00/M
2.50	F1225CT-ND•	2.22	2.07	1.56	F1225TR-ND	857.00/M
3.00	F1226CT-ND•	2.22	2.07	1.56	F1226TR-ND	857.00/M
4.00	F1227CT-ND•	2.22	2.07	1.56	F1227TR-ND	857.00/M
5.00	F1228CT-ND•	2.22	2.07	1.56	F1228TR-ND	857.00/M
7.00	F1229CT-ND	2.22	1.59	1.56	F1229TR-ND	857.00/M
8.00	F1239CT-ND	2.22	1.59	1.56	F1239TR-ND	857.00/M
10.00	F1251CT-ND	2.38	1.70	1.67	F1251TR-ND	986.00/M
	154xxxT Series – Slo-Blo®					
.375	F1300CT-ND	3.27	3.04	2.29	F1300TR-ND	1260.00/M
.500	F1301CT-ND•	3.27	3.04	2.29	F1301TR-ND	1260.00/M
.750	F1302CT-ND•	2.88	2.68	2.02	F1302TR-ND	1110.00/M
1.00	F1303CT-ND•	2.88	2.68	2.02	F1303TR-ND	1110.00/M
1.50	F1304CT-ND•	2.88	2.68	2.02	F1304TR-ND	1110.00/M
2.00	F1305CT-ND•	2.88	2.68	2.02	F1305TR-ND	1110.00/M
2.50	F1306CT-ND•	2.88	2.68	2.02	F1306TR-ND	1110.00/M
3.00	F1307CT-ND•	2.88	2.68	2.02	F1307TR-ND	1110.00/M
3.50	F1308CT-ND	2.88	2.68	2.02	F1308TR-ND	1110.00/M
4.00	F1309CT-ND•	2.88	2.68	2.02	F1309TR-ND	1110.00/M
5.00	F1310CT-ND•	2.88	2.68	2.02	F1310TR-ND	1110.00/M

• **154-KIT-ND Digi-Key® 154 Series Fuseblock with Fuse** ***Fast Acting and Slo-Blo® Surface Mount Nano²®*** 5 each of parts indicated, plus a plastic storage box... **$149.95**

Nano²® SMF Very Fast-Acting and Slo-Blo® Fuses

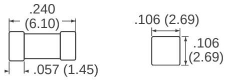

1~5 Amp
R451 Series

Nano²® Surface Mount Fuses incorporate proven Picofuse performance and dependability in a flat top design which permits efficient pick and place assembly.
• **Recommended Soldering Parameters:** *Infrared Reflow* for 30 seconds is 500°F (260°C) for Very Fast-Acting; 445°F (230°C) for Slo-Blo®. *Wave Solder* is 500°F (260°C) for 10 seconds for Very Fast-Acting; 500°F (260°C) for 3 seconds maximum for Slo-Blo®.
• **Construction Materials:** Body is ceramic, Caps are tin-lead alloy plated brass.
• **Operating Temperature Range:** -55°C ~ 125°C
• **Voltage Rating:** 125V, 65V: F1151

Fast Acting			Slo-Blo®	
Rating	Amps	Opening Time	Rating	Opening Time (Minimum/ Maximum)
100% 200% 200%	1/16~15 1/16~10 12~15	4 hours minimum 5 sec., maximum 20 sec., maximum	100% 200% 300% 800%	4 hrs. minimum 1 sec. / 60 sec. 0.2 / 3 sec. 0.02 / 0.1 sec.

Amp. Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000
	R451 Series - Very Fast Acting					
.250	F2572CT-ND§	1.08	1.01	.76	—	—
.375	F1152CT-ND	1.01	.94	.71	—	—
.375	F2573CT-ND§	1.08	1.01	.76	F2573TR-ND§	448.00
.500	F2574CT-ND§	1.08	1.01	.76	F2574TR-ND§	448.00
.630	F2575CT-ND§	1.08	1.01	.76	F2575TR-ND§	448.00
.750	F2576CT-ND§	1.08	1.01	.76	F2576TR-ND§	448.00
1.000	F2577CT-ND§	1.08	1.01	.76	F2577TR-ND§	448.00
1.250	F2578CT-ND§	1.08	1.01	.76	F2578TR-ND§	448.00
1.500	F2579CT-ND§	1.08	1.01	.76	F2579TR-ND§	448.00
1.600	F2580CT-ND§	1.08	1.01	.76	F2580TR-ND§	448.00
2.000	F2581CT-ND§	1.08	1.01	.76	F2581TR-ND§	448.00
2.500	F1146CT-ND	1.01	.94	.71	F1146TR-ND	419.05
2.500	F2582CT-ND§	1.08	1.01	.76	F2582TR-ND§	448.00
3.000	F1147CT-ND	1.01	.94	.71	—	—
3.000	F2583CT-ND§	1.08	1.01	.76	F2583TR-ND§	448.00
3.150	F2584CT-ND§	1.08	1.01	.76	F2584TR-ND§	448.00
3.500	F2585CT-ND§	1.08	1.01	.76	F2585TR-ND§	448.00
4.000	F2586CT-ND§	1.01	.94	.71	F2586TR-ND§	419.00
5.000	F2587CT-ND§	1.08	1.01	.76	F2587TR-ND§	448.00
6.300	F2588CT-ND§	1.08	1.01	.76	F2588TR-ND§	448.00
7.000	F2589CT-ND§	1.08	1.01	.76	F2589TR-ND§	448.00
8.000	F2256CT-ND	1.01	.94	.71	F2256TR-ND	419.05
8.000	F2590CT-ND§	1.08	1.01	.76	F2590TR-ND§	448.00
10.000	F2591CT-ND§	1.72	1.60	1.21	F2591TR-ND§	711.00
12.000	F2592CT-ND§	1.60	1.49	1.13	F2592TR-ND§	664.00
15.000	F1151CT-ND	1.60	1.49	1.13	—	—
15.000	F2593CT-ND§	1.72	1.60	1.21	F2593TR-ND§	711.00

Amp. Rate	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000
	R452 Series – Slo-Blo®					
0.375	F1340CT-ND	1.33	1.24	.94	—	—
0.375	F2597CT-ND§	1.47	1.37	1.03	F2597TR-ND§	608.00
0.500	F2598CT-ND§	1.47	1.37	1.03	F2598TR-ND§	608.00
0.750	F1342CT-ND	1.33	1.24	.94	F1342TR-ND	552.45
0.750	F2599CT-ND§	1.47	1.37	1.03	F2599TR-ND§	608.00
1.000	F2600CT-ND§	1.47	1.37	1.03	F2600TR-ND§	608.00
1.500	F2601CT-ND§	1.47	1.37	1.03	F2601TR-ND§	608.00
2.000	F2602CT-ND§	1.47	1.37	1.03	F2602TR-ND§	608.00
2.500	F1346CT-ND	1.33	1.24	.94	—	—
2.500	F2603CT-ND§	1.47	1.37	1.03	F2603TR-ND§	608.00
3.000	F2604CT-ND§	1.33	1.24	.94	F2604TR-ND§	552.00
3.500	F1348CT-ND	1.33	1.24	.94	—	—
3.500	F2605CT-ND§	1.47	1.37	1.03	F2605TR-ND§	608.00
4.000	F2606CT-ND§	1.47	1.37	1.03	F2606TR-ND§	608.00
5.000	F1350CT-ND	1.33	1.24	.94	F1350TR-ND	552.45
5.000	F2607CT-ND§	1.47	1.37	1.03	F2607TR-ND§	608.00

§ *RoHS Compliant*

PICO II™ 125 Volt Very Fast-Acting Pico Fuses

1~5 Amp

QPL

Patents: U.S. Patent #2,385,281
Construction Materials: Body:UL94V0 epoxy coating, green
RoHS Compliant
Product: Pure tin coated copper wire leads
• **Ratings:** 300 amps at rated voltage VDC 50A VAC
• **Operating Temp.:** -55°C ~ 125°C

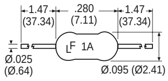

Electrical Characteristics:

Rating	Amperage	Opening Time
100%	1/16~15	4 hours, minimum
200%	1/16~7	1 seconds, maximum
200%	10	3 seconds, maximum
200%	12~15	10 seconds, maximum

Amp. Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
		0251 Series — Non Color-Coded Type (Bulk)			
.630	125	F1510-ND	.75	.70	.52
12.000	32	F836-ND	.81	.76	.52
		0251 Series — Non Color-Coded Type (Bulk) - RoHS Compliant			
.062	125	F2307-ND	1.11	1.04	.72
.125	125	F2308-ND•	.70	.66	.46
.250	125	F2309-ND	.70	.66	.46
.375	125	F2310-ND	.70	.66	.46
.500	125	F2311-ND•	.52	.49	.34
.630	125	F2312-ND	.52	.49	.34
.750	125	F2353-ND•	.52	.49	.34
1.000	125	F2313-ND•	.52	.49	.34
1.250	125	F2323-ND	.52	.49	.34
1.500	125	F2319-ND•	.52	.49	.34
2.000	125	F2314-ND•	.52	.49	.34
2.500	125	F2321-ND	.52	.49	.34
3.000	125	F2315-ND•	.52	.49	.34
3.500	125	F2322-ND	.60	.56	.39
4.000	125	F2316-ND•	.52	.49	.34
5.000	125	F2317-ND•	.52	.49	.34
7.000	125	F2318-ND	.52	.49	.34
10.000	125	F2320-ND	.60	.56	.39
12.000	32	F2351-ND	.81	.76	.52
15.000	32	F2352-ND	.70	.66	.46

•***NEW!*** **251L-473L-KIT-ND Digi-Key® 251 Series Fuse** ***Very Fast Acting*** and **473 Series Fuse** ***Slo-Blo® Axial Pico II™*** 5 each of parts indicated, plastic storage box **not** included — ***RoHS Compliant*** **$99.96**

Amp. Rating	Volt. Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 1,000
		R251 Series — Non Color-Coded Type (Cut Tape and Tape Reel)					
.0625	125	F1505CT-ND	1.16	.83	.82	F1505TR-ND	552.45
.375	125	F1508CT-ND	.73	.53	.52	F1508TR-ND	348.00
.630	125	F1511CT-ND	.73	.53	.52	—	—
3.500	125	F1518CT-ND	.54	.39	.38	F1518TR-ND	256.65
12.000	32	F1523CT-ND	.73	.53	.52	—	—
15.000	32	F1524CT-ND	.73	.53	.52	—	—

Littelfuse®

1~5 Amp

Slo-Blo® Pico Fuses

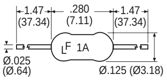

Construction Materials: Body-UL94V0 epoxy coating, gold. Leads-solder coated copper wire. • ***RoHS Compliant* Product**: Pure tin coated copper wire leads • **Operating Temperature Range:** -55°C ~ 125°C.

Electrical Characteristics:

Rating	Opening Time	Rating	Opening Time
100% 300%	4 hrs., minimum 3 sec., maximum	200% 800%	60 sec., maximum 0.1 sec., maximum

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing 4,000
0473 Series - Non-Color Coded Type					
.750	F1201CT-ND	1.93	1.80	F1201TR-ND	857.00/M
1.500	F1203CT-ND	1.93	1.80	F1203TR-ND	857.00/M
2.000	F1204CT-ND	1.93	1.80	—	—
2.500	F1205CT-ND	1.93	1.80	F1205TR-ND	857.00/M
3.000	F1206CT-ND	1.93	1.80	—	—
3.500	F1207CT-ND	1.93	1.80	F1207TR-ND	857.00/M
5.000	F1209CT-ND	1.93	1.80	—	—
7.000	F2257CT-ND	1.93	1.80	F2257TR-ND	857.25/M

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	T&R Pricing 1,000
0473L Series - Non-Color Coded Type -RoHS Compliant					
.375	F2338CT-ND	2.03	1.89	F2338TR-ND	800.40
.500	F2339CT-ND•	2.22	2.07	F2339TR-ND	920.75
.750	F2340CT-ND•	2.03	1.89	F2340TR-ND	800.40
1.000	F2341CT-ND•	2.03	1.89	F2341TR-ND	800.40
1.500	F2347CT-ND•	2.03	1.89	F2347TR-ND	800.40
2.000	F2342CT-ND•	2.03	1.89	F2342TR-ND	800.40
2.250	F2350CT-ND	2.03	1.89	F2350TR-ND	800.40
2.500	F2348CT-ND	2.03	1.89	F2348TR-ND	800.40
3.000	F2343CT-ND•	2.22	2.07	F2343TR-ND	920.75
3.500	F2349CT-ND•	2.03	1.89	F2349TR-ND	800.40
4.000	F2344CT-ND•	2.22	2.07	F2344TR-ND	920.75
5.000	F2345CT-ND•	2.03	1.89	F2345TR-ND	800.40
7.000	F2346CT-ND	2.03	1.89	F2346TR-ND	800.40

•***NEW!*** **251L-473L-KIT-ND Digi-Key® 251 Series Fuse** ***Very Fast Acting*** and **473 Series Fuse** ***Slo-Blo® Axial Pico II***™ 5 each of parts indicated, plastic storage box **not** included — ***RoHS Compliant*** **$99.96**

PICO II™ 250 Volt Very Fast-Acting Pico Fuses

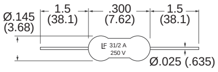

Interrupting Rating: 50 Amperes at 250VAC

Construction Materials: Encapsulated, epoxy-coated body; Pure tin coated copper leads; green in color

Electrical Characteristics:

% Amp. Rating	Opening Time (Minimum/Maximum)
100% 200% 300%	4 hours, minimum 1 sec. maximum 0.1 sec. maximum

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
0263 Series					
.750	250	F885-ND	1.84	1.72	1.30
2.000		F888-ND	1.84	1.72	1.30
2.500		F889-ND	1.84	1.72	1.30
0263L Series - RoHS Compliant					
.062	250	F2324-ND	2.44	2.27	1.57
.125		F2325-ND	1.94	1.81	1.25
.250		F2326-ND	1.94	1.81	1.25
.375		F2327-ND	1.94	1.81	1.25
.500		F2328-ND	1.94	1.81	1.25
.750	250	F2329-ND	1.60	1.49	1.04
1.000		F2330-ND	1.60	1.49	1.04
1.500		F2335-ND	1.60	1.49	1.04
2.000		F2331-ND	1.60	1.49	1.04
2.500		F2336-ND	1.60	1.49	1.04
3.000	250	F2332-ND	1.60	1.49	1.04
3.500		F2337-ND	1.60	1.49	1.04
4.000		F2333-ND	1.84	1.72	1.19
5.000		F2334-ND	1.60	1.49	1.04

Pico SMD Very Fast-Acting and Slo-Blo® SMT Fuses

1~5 Amp
R460 Series

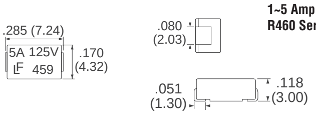

EIA Case Code 7343 Laser etched for ease of identification.

- **Operating Temperature:** -55°C ~ 125°C
- **Soldering Methods:** *Infrared Reflow* is 500°F (260°C) maximum temperature for Very Fast-Acting; 446°F (230°C) maximum temperature for Slo-Blo®. *Thru the wave soldering* is 500°F (260°C),10 seconds maximum.
- **Voltage Rating:** 125

Rating	Fast-Acting Opening Time	Slo-Blo® Opening Time
100% 200% 300% 800%	4 hrs. minimum 1 sec. maximum — —	4 hrs., minimum 60 sec., maximum 3 sec., maximum 0.1 sec. maximum

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 500
R459 Series – Very Fast-Acting						
.125	F1160CT-ND	1.28	1.19	.90	F1160TR-ND	293.00
.250	F1161CT-ND	1.28	1.19	.90	F1161TR-ND	293.00
.375	F1162CT-ND	1.28	1.19	.90	F1162TR-ND	293.00
.500	F1163CT-ND	.95	.89	.67	F1163TR-ND	217.50
.750	F1164CT-ND	.95	.89	.67	F1164TR-ND	217.50
1.000	F1165CT-ND	.95	.89	.67	F1165TR-ND	217.50
1.500	F1166CT-ND	.95	.89	.67	F1166TR-ND	217.50
2.000	F1167CT-ND	.95	.89	.67	F1167TR-ND	217.50
2.500	F1168CT-ND	.95	.89	.67	F1168TR-ND	217.50
3.000	F1169CT-ND	.95	.89	.67	F1169TR-ND	217.50
3.500	F1170CT-ND	.95	.89	.67	F1170TR-ND	217.50
4.000	F1171CT-ND	.95	.89	.67	F1171TR-ND	217.50
5.000	F1172CT-ND	.95	.89	.67	F1172TR-ND	217.50
R460 Series – Slo-Blo®						
.375	F1180CT-ND	2.02	1.88	1.42	F1180TR-ND	461.50
.500	F1181CT-ND	2.02	1.88	1.42	F1181TR-ND	461.50
.750	F1182CT-ND	2.02	1.88	1.42	F1182TR-ND	461.50
1.000	F1183CT-ND	2.02	1.88	1.42	F1183TR-ND	461.50
1.500	F1184CT-ND	2.02	1.88	1.42	F1184TR-ND	461.50
2.000	F1185CT-ND	2.02	1.88	1.42	F1185TR-ND	461.50
2.500	F1186CT-ND	2.02	1.88	1.42	F1186TR-ND	461.50
3.000	F1187CT-ND	2.02	1.88	1.42	F1187TR-ND	461.50
3.500	F1188CT-ND	2.02	1.88	1.42	F1188TR-ND	461.50
4.000	F1189CT-ND	2.02	1.88	1.42	F1189TR-ND	461.50
5.000	F1190CT-ND	2.02	1.88	1.42	F1190TR-ND	461.50

NEW! Metric (5x20mm) Fuses (UL Standards)

Fast-Acting 235 Series
Medium-Acting 234 Series
Slo-Blo® 239 Series

- Operating Temperature: -55C ~ 125°C
- Designed To UL/CSA/ANCE 248 Standard

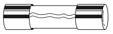

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
235P Series — Fast-Acting					
.250	250	F2670-ND	.69	.52	.46
.300		F2671-ND	.69	.52	.46
.400		F2672-ND	.69	.52	.46
.500		F2673-ND	.38	.29	.25
.600		F2674-ND	.38	.29	.25
.700	250	F2675-ND	.38	.29	.25
.800		F2676-ND	.38	.29	.25
1		F2677-ND	.31	.23	.21
1.25		F2678-ND	.31	.23	.21
1.6		F2679-ND	.34	.25	.23
2	250	F2680-ND	.31	.23	.21
2.5	250	F2681-ND	.31	.23	.21
3	250	F2682-ND	.34	.25	.23
4	125	F2683-ND	.31	.23	.21
5	125	F2684-ND	.31	.23	.21
6	125	F2685-ND	.31	.23	.21
234P Series — Medium-Acting					
1	250	F2686-ND	.78	.58	.52
1.6		F2687-ND	.78	.58	.52
2		F2688-ND	.78	.58	.52
2.5		F2689-ND	.78	.58	.52
3		F2690-ND	.78	.58	.52
3.5	250	F2691-ND	.78	.58	.52
4		F2692-ND	.78	.58	.52
5		F2693-ND	.78	.58	.52
6		F2694-ND	.78	.58	.52
239P Series — Time Lag (Slo-Blo®)					
.250	250	F2695-ND	.96	.72	.64
.300		F2696-ND	.96	.72	.64
.400		F2697-ND	.74	.55	.49
.500		F2698-ND	.74	.55	.49
.600		F2699-ND	.74	.55	.49
.700	250	F2700-ND	.74	.55	.49
.800		F2701-ND	.74	.55	.49
1		F2702-ND	.74	.55	.49
1.25		F2703-ND	.74	.55	.49
1.6		F2704-ND	.74	.55	.49
2	250	F2705-ND	.74	.55	.49
2.5		F2706-ND	.74	.55	.49
3.0		F2707-ND	.74	.55	.49

Metric (5x20mm) Fuses (IEC Standards)

Slo-Blo® High Breaking Capacity 215P Series
Fast-Acting High Breaking Capacity 216/216P Series
Fast-Acting 217/217PSeries
Slo-Blo® 218/218P Series

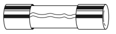

Approvals:

215P Series: CE 200mA ~ 12A; SEMKO 200mA ~ 10Amperes; BSI approved 200mA ~ 6.3Amperes; UL and CSA recognized 500mA ~ 12 Amperes; CCC Certified 1 ~ 6.3 Amperes; PSE 1 ~ 12 Amperes
216/216P Series: UL and CSA recognized .050~10 Amperes; VDE approved .080 ~.250, .400~1.6, 2.5~4.0, 6.3 Amperes; CCC Certified .080 ~.800 Amperes; BSI 1~6.3 Amperes; SEMKO approved .080 ~.125 Amperes
217/217P Series: SEMKO .032 ~.800 Amperes; VDE approved .032~6.3 Amperes; BSI approved .400 ~ 6.3 Amperes; UL and CSA recognized .032 ~ 6.3 Amperes; CCC Certified .080~.800 Amperes

218/218P Series: SEMKO .800 ~ 6.3 Amperes; VDE approved .032 ~ 6.3 Amperes; BSI approved .080 ~ 6.3 Amperes; UL and CSA recognized .032 ~15 Amperes

Interrupting Capacity: 215P & 216/216P Series: 1500 Amperes @ 250VAC. **217/217P Series:** 35 Amperes or 10 x rated current, whichever is greater, to a maximum of 100 Amps @ 250VAC. **218/218P Series:** 35 Amperes or 10 x rated current, whichever is greater to a maximum of 100 Amps @ 250VAC.

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
NEW! 215P — Series Slo-Blo® High Braking Capacity; Ceramic Body - RoHS Compliant NEW!					
1	250	F2659-ND	1.21	.91	.81
1.25		F2660-ND	1.21	.91	.81
1.6		F2661-ND	1.21	.91	.81
2.0		F2662-ND	1.21	.91	.81
2.5		F2663-ND	1.21	.91	.81
3.15	250	F2664-ND	1.21	.91	.81
4		F2665-ND	1.21	.91	.81
5		F2666-ND	1.21	.91	.81
6.3		F2667-ND	1.21	.91	.81
8		F2668-ND	1.21	.91	.81
10		F2669-ND	1.21	.91	.81
216 Series — Fast-Acting High Breaking Capacity; Ceramic Body					
.050	250	F900-ND	1.65	1.24	1.10
.100		F903-ND	1.32	.99	.88
.125		F904-ND	1.32	.99	.88
.160		F905-ND	1.32	.99	.88
.630		F911-ND	1.32	.99	.88
1.250	250	F914-ND	1.32	.99	.88
4.000		F919-ND	1.32	.99	.88
6.300		F921-ND	1.32	.99	.88
8.000		F922-ND	1.65	1.24	1.10
216P Series — Fast-Acting High Breaking Capacity; Ceramic Body - RoHS Compliant					
.050	250	F2354-ND•	1.50	1.13	1.00
.080		F2355-ND	1.20	.90	.80
.100		F2356-ND•	1.20	.90	.80
.125		F2357-ND•	1.20	.90	.80
.160		F2358-ND	1.20	.90	.80
.200	250	F2359-ND	1.20	.90	.80
.250		F2360-ND•	1.20	.90	.80
.315		F2361-ND•	1.20	.90	.80
.400		F2362-ND	1.20	.90	.80
.500		F2363-ND•	1.20	.90	.80
.630	250	F2364-ND•	1.20	.90	.80
.800		F2365-ND•	1.20	.90	.80
1.000		F2366-ND•	1.08	.81	.72
1.250		F2375-ND•	1.08	.81	.72
1.600		F2371-ND	1.08	.81	.72
2.000	250	F2367-ND•	1.08	.81	.72
2.500		F2373-ND•	1.08	.81	.72
3.150		F2376-ND•	1.32	.99	.88
4.000		F2368-ND•	1.32	.99	.88
5.000		F2369-ND•	1.08	.81	.72
6.300	250	F2374-ND•	1.08	.81	.72
8.000		F2370-ND•	1.08	.81	.72
10.000		F2372-ND•	1.65	1.24	1.10
217 Series — Fast-Acting Type					
.040	250	F931-ND	1.59	1.19	1.06
.080		F934-ND	1.59	1.19	1.06
.100		F935-ND	1.59	1.19	1.06
.125		F936-ND	1.59	1.19	1.06
.160		F937-ND	.94	.70	.62
.630	250	F943-ND	.29	.22	.19
1.250		F946-ND	.29	.22	.19
217P Series — Fast-Acting Type RoHS Compliant					
.032	250	F2377-ND	1.59	1.19	1.06
.040		F2378-ND	1.44	1.08	.96
.050		F2379-ND	1.44	1.08	.96
.063		F2380-ND	1.44	1.08	.96
.080		F2381-ND	.85	.64	.57
.100	250	F2382-ND•	.85	.64	.57
.125		F2383-ND•	.85	.64	.57
.160		F2384-ND	.93	.70	.62
.200		F2385-ND	.93	.70	.62
.250		F2386-ND•	.93	.70	.62
.315	250	F2387-ND•	.93	.70	.62
.400		F2388-ND	.26	.20	.18
.500		F2389-ND•	.29	.22	.19
.630		F2390-ND•	.26	.20	.18
.800		F2391-ND•	.26	.20	.18
1.000	250	F2392-ND•	.26	.20	.18
1.250		F2402-ND•	.26	.20	.18
1.600		F2397-ND•	.26	.20	.18

(Continued)

Littelfuse®

Metric (5x20mm) Fuses *(Cont.)*

Amp. Rating	Voltage Rating	Digi-Key Part No.	Price Each 5	100	250
***217P Series — Fast-Acting Type RoHS Compliant** (Cont.)*					
2.000	250	F2393-ND•	.29	.22	.19
2.500		F2400-ND•	.26	.20	.18
3.150		F2403-ND•	.26	.20	.18
4.000		F2394-ND•	.29	.22	.19
5.000		F2395-ND•	.26	.20	.18
6.300	250	F2401-ND•	.26	.20	.18
8.000		F2396-ND•	.26	.20	.18
10.000		F2398-ND•	.26	.20	.18
15.000		F2399-ND	.26	.20	.18
218 Series — Slo-Blo® Type					
.032	250	F960-ND	2.13	1.60	1.42
.050		F962-ND	2.13	1.60	1.42
.080		F964-ND	2.13	1.60	1.42
.125		F966-ND	1.31	.99	.87
.315		F970-ND	1.24	.93	.83
.400	250	F971-ND	1.24	.93	.83
8.000		F984-ND	1.33	1.00	.89
10.000		F985-ND	1.33	1.00	.89
218P Series — Slo-Blo® Type RoHS Compliant					
.032	250	F2404-ND	1.93	1.45	1.29
.040		F2405-ND	1.93	1.45	1.29
.050		F2406-ND	1.93	1.45	1.29
.063		F2407-ND	1.93	1.45	1.29
.080		F2408-ND	1.93	1.45	1.29
.100	250	F2409-ND•	1.24	.93	.83
.125		F2410-ND•	1.13	.85	.75
.160		F2411-ND	1.13	.85	.75
.200		F2412-ND	1.13	.85	.75
.250		F2413-ND•	1.13	.85	.75
.315	250	F2414-ND•	1.13	.85	.75
.400		F2415-ND	1.24	.93	.83
.500		F2416-ND•	.85	.64	.57
.630		F2417-ND•	.78	.58	.52
.800		F2418-ND•	.78	.58	.52
1.000	250	F2419-ND•	.78	.58	.52
1.250		F2429-ND•	.78	.58	.52
1.600		F2424-ND•	.78	.58	.52
2.000		F2420-ND•	.78	.58	.52
2.500		F2427-ND•	.78	.58	.52
3.150	250	F2430-ND•	.78	.58	.52
4.000		F2421-ND•	.78	.58	.52
5.000		F2422-ND•	.85	.64	.57
6.300		F2428-ND•	.78	.58	.52
8.000		F2423-ND•	1.21	.91	.81
10.000	250	F2425-ND•	1.21	.91	.81
15.000		F2426-ND	1.21	.91	.81

- ***NEW!*** **216P-KIT-ND Digi-Key® 216 Series Fuse *Fast Acting High Breaking Capacity*** 5 each of parts indicated, plus a plastic storage box — ***RoHS Compliant*** **$159.97**
- ***NEW!*** **217P-KIT-ND Digi-Key® 217 Series Fuse *Fast Acting*** 5 each of parts indicated, plus a plastic storage box — ***RoHS Compliant***. **$39.95**
- ***NEW!*** **218P-KIT-ND Digi-Key® 218 Series Fuse *Slo-Blo® Type*** 5 each of parts indicated, plus a plastic storage box — ***RoHS Compliant***. **$89.95**

350 Volt SMT Fuses
Fast-Acting EBF Series

2~5 Amp

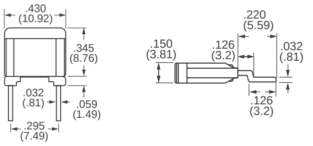

• Ideal for use in electronic lighting ballast, power supply and power inverter applications • Rated for use in 125, 250, 277 and 350 VAC circuits. • **Agency Approvals:** UL recognized, CSA certified, MITI approved for 5 Amps • **Interrupting Ratings:** 100 Amps at 350VAC • **Operating Temperature:** -40°C ~ 125°C • **Physical Specifications:** Materials: Nylon Body; Silver Plated Zinc Terminations • **Packaging Specifications:** 24mm Tape and Reel per EIA-RS481 (equivalent to IEC 286, part 3); 800 fuses per reel

Electrical Characteristics:

% Amp. Rating	Opening Time
100%	4 hours, minimum
200%	0.15 sec. minimum, 5 sec. maximum

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 800
446 Series						
2	F1000CT-ND	.88	.82	.62	F1000TR-ND	320.00
3	F1001CT-ND	.88	.82	.62	F1001TR-ND	320.00
4	F1002CT-ND	.88	.82	.62	F1002TR-ND	320.00
5	F1003CT-ND	.88	.82	.62	F1003TR-ND	320.00
7.5	F1004CT-ND	.88	.82	.62	F1004TR-ND	320.00
10	F1005CT-ND	.88	.82	.62	F1005TR-ND	320.00

Barrier Network Fuses

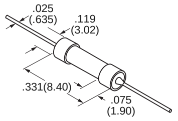

- Meets Barrier Network Standards (EN50020) for hazardous applications
- High interrupting rating

Voltage Rating: 250V
Interrupting Ratings: 4000 Amperes at 250 VAC/VDC

Part No.	Color Coding
F1290	Red
F1291	Green
F1292	Blue
F1293	Violet
F1294	Brown
F1295	Black

Electrical Characteristics:

% Amp. Rating	Opening Time
110%	4 hours, minimum
300%	10 seconds, maximum
1000%	0.002 seconds, maximum

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Pricing 500
242 Series						
.050	F1290CT-ND	4.48	4.16	3.14	F1290TB-ND	1023.00
.080	F1291CT-ND	4.48	4.16	3.14	F1291TB-ND	1023.00
.100	F1292CT-ND	4.48	4.16	3.14	F1292TB-ND	1023.00
.160	F1293CT-ND	4.48	4.16	3.14	F1293TB-ND	1023.00
.200	F1294CT-ND	4.48	4.16	3.14	F1294TB-ND	1023.00
.250	F1295CT-ND	4.48	4.16	3.14	F1295TB-ND	1023.00

Microfuse Very Fast-Acting Type

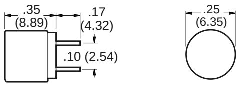

QPL

Operating Temperature Range: -55°C ~ 85°C

Electrical Characteristics:

Rating	Amperage	Opening Time
100%	1/500 — 5	4 hrs., minimum
200%	1/500 — 3/10	5 sec., maximum
200%	4/10 — 5	2 sec., maximum

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	100	250
273 Series — Fast-Acting Type					
.050	125	F855-ND	4.06	3.33	2.96
.100		F857-ND	4.01	3.29	2.92
.125		F858-ND	4.01	3.29	2.92
.200		F859-ND	6.22	5.09	4.53
.250	125	F860-ND	4.01	3.29	2.92
.300		F861-ND	4.01	3.29	2.92
.400		F862-ND	4.01	3.29	2.92
.500		F863-ND	4.01	3.29	2.92
.600		F864-ND	6.22	5.09	4.53
.700	125	F865-ND	6.22	5.09	4.53
.750		F866-ND	4.06	3.33	2.96
1.000		F868-ND	4.01	3.29	2.92
1.500		F869-ND	4.01	3.29	2.92
2.000		F870-ND	4.01	3.29	2.92
3.000	125	F871-ND	4.01	3.29	2.92
4.000		F872-ND	4.01	3.29	2.92
5.000		F873-ND	4.01	3.29	2.92

Safe-T-Plus Fuses

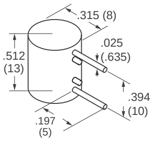

- Designed to allow equipment to meet “Intrinsically Safe” certification for applications in gas plants, petrochemical and processing industries where there is a danger of gas explosion from faulty circuits.
- Hermetically sealed.

Voltage Rating: 125V
Interrupting Ratings: 50 Amps at 125VAC; 300 Amps at 125VDC
Agency Approvals: Meets CENELEC EN50 014 to 039 and IEC 60079-11 and BASEEFA BS 5501, part 7.

Electrical Characteristics:

% Amp. Rating	Opening Time
100%	4 hours, minimum
200%	5 seconds, maximum

Amp Rating	Voltage Drop	Digi-Key Part No.	Price Each 1	100	250
259 Series					
.062	2.1	F1311-ND	4.86	2.88	2.56
.125	1.3	F1312-ND	4.86	2.88	2.56
.250	0.83	F1313-ND	4.86	2.88	2.56
.375	0.81	F1314-ND	4.86	2.88	2.56
.500	0.78	F1315-ND	4.86	2.88	2.56
.750	0.23	F1316-ND	4.86	2.88	2.56
1.000	0.24	F1317-ND	4.86	2.88	2.56

Schedule of Limitations:

1. The fuse must be so mounted that creepage and clearance distances meet the requirements of Table 2 of EN50020: 1977 or Table 4 of EN500020: 1994 (equivalent to IEC 60079-11 4th Edition 1999).
2. When used in intrinsically safe apparatus it will be necessary to determine a surface temperature classification for the fuse.

ATO Fuse: Mini, ATO and Maxi

RoHS COMPLIANT

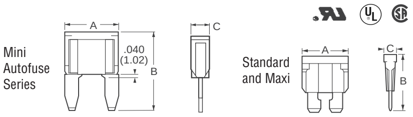

Designed and originated by Littelfuse for the automotive industry, the ATO fuse has become the original equipment circuit protection standard for foreign and domestic automobiles and trucks. This fuse can also be specified for a variety of low voltage electronic applications.

Design Standards: UL Standard for Automotive Blade Type Fuses. SAE (Society of Automotive Engineers) J1284

Color-Coding: Autofuse fuses are color-coded for easy amperage identification

Voltage Rating: 32V

Approvals: 297 Series: UL listed, 257 series: UL listed 1~40 Amperes; CSA certified 3~30 Amperes, 299 Series: UL recognized 20~60 Amperes

Body Material: 297 & 299 Series: Nylon, 257 Series: Plastic.

Fuse Type	Dimensions - Inch (mm) A	B	C
Mini-Fuse	.43 (10.92)	.63 (16.00)	.15 (3.81)
ATO Fuse	.75 (19.05)	.73 (18.54)	.20 (5.08)
Maxi-Fuse	1.15 (29.21)	1.35 (34.29)	.35 (8.89)

Amp Rating	Color Code	Digi-Key Part No.	Price Each 5	100	250
297 Series — Mini Fuses					
2	Grey	F986-ND•	.42	.39	.34
3	Violet	F987-ND•	.42	.39	.34
4	Pink	F988-ND•	.42	.39	.34
5	Tan	F989-ND•	.42	.39	.34
7.5	Brown	F990-ND•	.42	.39	.34
10	Red	F991-ND•	.42	.39	.34
15	Blue	F992-ND•	.42	.39	.34
20	Yellow	F993-ND•	.42	.39	.34
25	Natural	F994-ND•	.42	.39	.34
30	Green	F995-ND•	.42	.39	.34
257 Series — ATO Fuses					
1	Black	F2232-ND	.36	.34	.30
2	Grey	F2233-ND	.36	.34	.30
3	Violet	F996-ND•	.36	.34	.30
4	Pink	F997-ND	.36	.34	.30
5	Tan	F998-ND•	.36	.34	.30
7.5	Brown	F999-ND•	.36	.34	.30
10	Red	F1015-ND•	.36	.34	.30
15	Blue	F1016-ND•	.36	.34	.30
20	Yellow	F1017-ND•	.36	.34	.30
25	Natural	F1018-ND•	.36	.34	.30
30	Green	F1019-ND•	.36	.34	.30
35	BL./Green	F2234-ND	.36	.34	.30
40	Amber	F1220-ND	.36	.34	.30
299 Series — Maxi Fuses					
20	Yellow	F1035-ND	1.15	1.06	.94
30	Green	F1036-ND	1.15	1.06	.94
40	Amber	F1037-ND	1.15	1.06	.94
50	Red	F1038-ND	1.15	1.06	.94
60	Blue	F1039-ND	1.15	1.06	.94

- **257-297-KIT-ND Digi-Key® 257/297 Series Fuse *Mini and ATO*** 5 each of parts indicated, plus a plastic storage box **$33.95**

Alarm Indicating Fuses

Electrical Characteristics:

% Amp. Rating	Opening Time
100%	10 minutes, minimum
150%	5 minutes, maximum

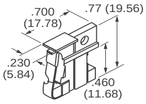

Alarm Indicating Fuses are ideal for telecom and control panel circuits. Color coded flag conforms to telecom color standards to easily identify amperage ratings. This series has enhancements with an expanded amperage range and higher interrupting ratings, making this a viable replacement for competitive lines such as Bussmann: GMT and San-O: AX-1 series product.

Agency Approval File Numbers: UL E71611, CSA LR29862.

Construction Materials: Body: Polyphenylene Sulfide (UL 94V0). Terminations: Beryllium Copper, Tin Plated.

Voltage Rating: 125VAC or 60VDC.

Interrupting Rating:450 Amperes at 60 VDC; 300 Amperes at 125 VAC/VDC.

Operating Temp. Range: -55°C ~ 125°C.

Amp Rating	Color Code	Digi-Key Part No.	Price Each 1	10	100
0481 Series — Alarm Indicating Type					
2.000	Orange	F719-ND	1.96	1.81	1.36
3.000	Blue	F720-ND	1.96	1.81	1.36
3.500	Blue/Wht.	F721-ND	1.96	1.81	1.36
4.000	Brn./Wht.	F722-ND	1.96	1.81	1.36
5.000	Green	F723-ND	1.96	1.81	1.36
7.500	Blk./Wht.	F724-ND	1.96	1.81	1.36
10.000	Red/Wht.	F725-ND	1.96	1.81	1.36
12.000	Grn./Ylw.	F726-ND	1.96	1.81	1.36
15.000	Red/Blue	F727-ND	1.96	1.81	1.36

Littelfuse®

1~5 Amps
224 Series

.125~3.5 Amps

4~10 Amps

2AG Subminiature Fast-Acting Fuses

Pigtail Material:
Tinned copper wire

Approvals: Listed by U.L. and Certified by CSA. Patented. U.L. recognized

Dimensions:
- **Cartridge:** .177” (4.50mm) diameter; .57” (14.48mm) length
- **Pigtail:** .19” (4.83mm) diameter; .6” (15.24mm) length
- **Leads:** .025” (.64mm) diameter; 1.50” (38.10mm) length typ.

Electrical Characteristics:

Rating	Opening Time
110%	4 hr., minimum
135%	1 hr., maximum
200%	1 sec., maximum

Amp. Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
225 Series — Cartridge Type					
.375	250	F642-ND	.51	.38	.34
1.000		F645-ND	.51	.38	.34
1.500		F646-ND	.51	.38	.34
2.500		F648-ND	.51	.38	.34
225P Series — Cartridge Type ***RoHS Compliant***					
.125	250	F2447-ND	.67	.50	.45
.250		F2448-ND•	.67	.50	.45
.375		F2449-ND	.46	.35	.31
.500		F2450-ND•	.46	.35	.31
.750		F2451-ND•	.46	.35	.31
1.000	250	F2452-ND•	.51	.38	.34
1.500		F2460-ND•	.46	.35	.31
2.000		F2453-ND•	.46	.35	.31
2.500		F2462-ND	.46	.35	.31
3.000		F2454-ND•	.46	.35	.31
3.500		F2463-ND	.46	.35	.31
4.000	125	F2455-ND•	.51	.38	.34
5.000		F2456-ND•	.51	.38	.34
6.000		F2457-ND	.51	.38	.34
7.000		F2458-ND	.51	.38	.34
8.000		F2459-ND	.51	.38	.34
10.000		F2461-ND	.51	.38	.34
224 Series — Pigtail Type					
.125	250	F620-ND	.98	.74	.65
.250		F621-ND	.98	.74	.65
.375		F622-ND	.75	.57	.50
2.000		F627-ND	.75	.57	.50
2.500		F628-ND	.75	.57	.50
3.000		F629-ND	.75	.57	.50
224P Series — Pigtail Type ***RoHS Compliant***					
.125	250	F2431-ND	.98	.74	.65
.250		F2432-ND	.89	.67	.59
.375		F2433-ND	.68	.51	.46
.500		F2434-ND	.68	.51	.46
.750		F2435-ND	.68	.51	.46
1.000	250	F2436-ND	.68	.51	.46
1.500		F2443-ND	.68	.51	.46
2.000		F2437-ND	.75	.57	.50
2.500		F2445-ND	.68	.51	.46
3.000		F2438-ND	.68	.51	.46
3.500		F2446-ND	.68	.51	.46
4.000	125	F2439-ND	.68	.51	.46
5.000		F2440-ND	.75	.57	.50
7.000		F2441-ND	.75	.57	.50
8.000		F2442-ND	.75	.57	.50
10.000		F2444-ND	.75	.57	.50

Slo-Blo® Fuses

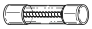

Pigtail Material:
Tinned copper wire

Approvals: Listed by U.L. and Certified by CSA through 3.5 Amperes. Recognized under the Components Program of U.L. from 4 through 7 Amperes. 229 Series 4 and 5 Amperes, 230 series 1 through 5 Amperes approved by METI.

Patents: U.S. Patents #4,409,729 and #4,445,106.

Dimensions: • Cartridge: .177” (4.50mm) diameter; .57” (14.48mm) length • Pigtail: .19” (4.83mm) diameter; .60” (15.24mm) length • Leads: .025” (.64mm) diameter; 1.50” (38.10mm) length

Electrical Characteristics:

Rating	Opening Time
110%	4 hrs., minimum
135%	1 hr., maximum
200%	3 sec., minimum/ 20 sec., maximum

Amp. Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
229 Series — Cartridge Type					
.375	250	F661-ND	.60	.45	.40
.500		F662-ND	.60	.45	.40
.750		F663-ND	.60	.45	.40
1.000		F664-ND	.60	.45	.40
1.250		F2230-ND	.60	.45	.40
2.000		F666-ND	.60	.45	.40
7.000	125	F672-ND	.60	.45	.40
229P Series — Cartridge Type ***RoHS Compliant***					
.250	250	F2464-ND•	.54	.41	.36
.375		F2465-ND•	.54	.41	.36
.500		F2466-ND•	.54	.41	.36
.750		F2467-ND	.54	.41	.36
1.000		F2468-ND•	.54	.41	.36
1.250	250	F2477-ND	.54	.41	.36
1.500		F2474-ND	.54	.41	.36
2.000		F2469-ND•	.60	.45	.40
2.250		F2478-ND	.54	.41	.36
2.500		F2475-ND	.54	.41	.36
3.000	250	F2470-ND•	.54	.41	.36
3.500		F2476-ND	.60	.45	.40
4.000	125	F2471-ND•	.54	.41	.36
5.000		F2472-ND•	.60	.45	.40
7.000		F2473-ND	.54	.41	.36
230 Series — Pigtail Type					
.250	250	F680-ND	.84	.63	.56
.375		F681-ND	.84	.63	.56
.750		F683-ND	.84	.63	.56
1.000		F684-ND	.84	.63	.56
1.500		F685-ND	.84	.63	.56
4.000	125	F690-ND	.84	.63	.56
230P Series — Pigtail Type ***RoHS Compliant***					
.250	250	F2479-ND	.76	.57	.51
.375		F2480-ND	.76	.57	.51
.500		F2481-ND	.84	.63	.56
.750		F2482-ND	.76	.57	.51
1.000		F2483-ND	.76	.57	.51
1.250	250	F2492-ND	.76	.57	.51
1.500		F2489-ND	.76	.57	.51
2.000		F2484-ND	.84	.63	.56
2.500		F2490-ND	.76	.57	.51
3.000		F2485-ND	.76	.57	.51
3.500		F2491-ND	.76	.57	.51
4.000	125	F2486-ND	.84	.63	.56
5.000		F2487-ND	.76	.57	.51
7.000		F2488-ND	.76	.57	.51

• ***NEW!*** **225P-229P-KIT-ND Digi-Key® 225 Fast-Acting Fuses and 229 Slo-Blo®** 5 each of parts indicated, plus a plastic storage box ***RoHS Compliant*** **$39.96**

3AB Ceramic Body Fast-Acting Fuses

Dimensions: Diameter: 1/4” (6.35mm); Length: 1-1/4” (31.75mm).

Approvals: Listed by UL and Certified by CSA through 15 Amperes at 250 VAC / 125 VDC. Recognized under the Components Program of U.L. from 20~30 Amperes, certified by CSA at 20 Amperes and approved by METI from 10~30 Amperes.

Electrical Characteristics:

Rating	Amperage	Opening Time
110%	1/8 ~ 30	4 hrs., minimum
135%	1/8 ~ 30	1 hr., maximum
200%	1/8 ~ 12	15 sec., maximum
200%	15 ~ 30	30 sec., maximum

Amp. Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
314 Series — Cartridge Type					
.250	250	F151-ND	1.28	.96	.86
.500		F153-ND	.89	.67	.60
5.000		F159-ND	.79	.59	.53
8.000		F162-ND	.79	.59	.53
10.000		F163-ND	.79	.59	.53
25.000	125	F167-ND	1.17	.88	.78
314P Series — Cartridge Type ***RoHS Compliant***					
.125	250	F2567-ND	1.28	.96	.86
.250		F2568-ND	1.17	.88	.78
.375		F2569-ND	.72	.54	.48
.500		F2570-ND	.72	.54	.48
.750		F2571-ND	.72	.54	.48
1.000	250	F2572-ND	.83	.63	.56
2.000		F2573-ND	.72	.54	.48
3.000		F2574-ND	.72	.54	.48
4.000		F2575-ND	.72	.54	.48
5.000		F2576-ND	.79	.59	.53
6.000	250	F2577-ND	.72	.54	.48
7.000		F2578-ND	.72	.54	.48
8.000		F2579-ND	.72	.54	.48
10.000		F2580-ND	.72	.54	.48
12.000		F2581-ND	.72	.54	.48
15.000	250	F2582-ND	.72	.54	.48
20.000		F2583-ND	1.07	.80	.71
25.000		F2584-ND	1.17	.88	.78
30.000		F2585-ND	1.07	.80	.71

3AB Ceramic Body Slo-Blo® Fuses

Dimensions: Diameter: 1/4” (6.35mm); Length: 1-1/4” (31.75mm)

Patents: U.S. Patents #4,409,729 and #4,445,106

Approvals: Certified by CSA from .250~30 Amperes. Recognized under the component program of Underwriters Laboratories for 12~30 Amperes. Listed by Underwriters Laboratories from .250~10 Amperes.

Electrical Characteristics:

Rating	Opening Time
110%	4 hrs., minimum
135%	1 hr., maximum
200%	5 sec., minimum

Amp. Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
326 Series — Cartridge Type					
.100	250	F453-ND	3.08	2.31	2.05
.250		F459-ND	2.00	1.50	1.33
.750		F466-ND	2.00	1.50	1.33
1.500		F471-ND	2.00	1.50	1.33
2.500		F474-ND	1.40	1.05	.93
3.000	250	F476-ND	1.40	1.05	.93
4.000		F478-ND	1.40	1.05	.93
5.000		F479-ND	1.40	1.05	.93
6.250		F480-ND	1.40	1.05	.93
8.000		F482-ND	1.40	1.05	.93
15.000	250	F485-ND	1.40	1.05	.93
20.000		F486-ND	1.40	1.05	.93
25.000	125	F487-ND	1.40	1.05	.93
326P Series — Cartridge Type ***RoHS Compliant***					
.010	250	F2619-ND	2.80	2.10	1.87
.031		F2620-ND	2.80	2.10	1.87
.062		F2621-ND	2.80	2.10	1.87
.100		F2622-ND	2.80	2.10	1.87
.125		F2623-ND	2.80	2.10	1.87
.150	250	F2624-ND	2.80	2.10	1.87
.175		F2625-ND	1.27	.95	.85
.187		F2626-ND	1.27	.95	.85
.200		F2627-ND	1.27	.95	.85
.250		F2628-ND	2.00	1.50	1.33
.300	250	F2629-ND	1.27	.95	.85
.375		F2630-ND	1.27	.95	.85
.400		F2631-ND	1.27	.95	.85
.500		F2632-ND	1.27	.95	.85
.600		F2633-ND	1.27	.95	.85
.700	250	F2634-ND	1.27	.95	.85
.750		F2635-ND	1.27	.95	.85
.800		F2636-ND	1.27	.95	.85
1.000		F2637-ND	1.27	.95	.85
1.200		F2644-ND	1.27	.95	.85
1.250	250	F2656-ND	1.27	.95	.85
1.500		F2645-ND	1.27	.95	.85
1.600		F2646-ND	1.27	.95	.85
2.000		F2638-ND	1.27	.95	.85
2.500		F2650-ND	1.27	.95	.85
2.800	250	F2651-ND	1.27	.95	.85
3.000		F2639-ND	1.27	.95	.85
3.200		F2654-ND	1.27	.95	.85
4.000		F2640-ND	1.27	.95	.85
5.000		F2641-ND	1.27	.95	.85
6.250	250	F2657-ND	1.27	.95	.85
7.000		F2642-ND	1.40	1.05	.93
8.000		F2643-ND	1.27	.95	.85
10.000		F2647-ND	1.27	.95	.85
12.000		F2648-ND	1.27	.95	.85
15.000	250	F2649-ND	1.27	.95	.85
20.000		F2652-ND	1.27	.95	.85
25.000	125	F2653-ND	1.27	.95	.85
30.000		F2655-ND	1.27	.95	.85

Littelfuse®

3AG Glass Body Fast-Acting Fuses

Approvals:
Listed by UL and Certified by CSA through 30 Amperes. .010~10 Amperes listed to UL 248-14 (UL 198-G) 12~30 Amperes listed to UL 275.

Dimensions:
312 Series: Diameter: 1/4" (6.35mm); Length: 1-1/4" (31.75mm).
318 Series: Diameter: .275" (6.99mm); Length: 1.275" (32.39mm); Pigtail Diameter: .032" (.81mm); Pigtail Length: 1.50" (38.10mm); Pigtail Material: Solder-coated copper.

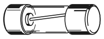

Electrical Characteristics:

Rating	Opening Time
110%	4 hrs., minimum
135%	1 hr., maximum
200%	5 sec., maximum

Amp. Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
312 Series — Cartridge Type					
.010	250	F100-ND	7.73	5.80	5.16
.031		F101-ND	7.73	5.80	5.16
.150		F105-ND	.92	.69	.61
.175		F106-ND	.92	.69	.61
.200		F108-ND	.92	.69	.61
.300	250	F110-ND	.56	.42	.38
1.750		F2241-ND	.25	.19	.17
1.800		F2242-ND	.25	.19	.17
2.250		F2243-ND	.25	.19	.17
2.500		F120-ND	.25	.19	.17
4.000	250	F122-ND	.38	.29	.26
8.000		F126-ND	.52	.39	.35
12.000	32	F2244-ND	.37	.28	.25
25.000		F2247-ND	.37	.28	.25
35.000		F2249-ND	.37	.28	.25
312P Series - Cartridge Type ***RoHS Compliant***					
.010	250	F2493-ND	7.03	5.27	4.69
.031		F2494-ND•	7.03	5.27	4.69
.062		F2495-ND•	.83	.63	.56
.100		F2496-ND•	.83	.63	.56
.125		F2497-ND•	.83	.63	.56
.150	250	F2498-ND	.83	.63	.56
.175		F2499-ND•	.83	.63	.56
.187		F2500-ND	.83	.63	.56
.200		F2501-ND•	.83	.63	.56
.250		F2502-ND•	.83	.63	.56
.300	250	F2503-ND•	.83	.63	.56
.375		F2504-ND•	.25	.19	.17
.500		F2505-ND•	.25	.19	.17
.600		F2506-ND•	.25	.19	.17
.750		F2507-ND•	.25	.19	.17
1.000	250	F2508-ND•	.25	.19	.17
1.250		F2521-ND•	.25	.19	.17
1.500		F2516-ND•	.25	.19	.17
1.600		F2517-ND•	.25	.19	.17
1.750		F2522-ND •	.25	.19	.17
1.800	250	F2518-ND•	.25	.19	.17
2.000		F2509-ND•	.25	.19	.17
2.250		F2523-ND•	.25	.19	.17
2.500		F2520-ND•	.25	.19	.17
3.000		F2510-ND•	.25	.19	.17
4.000	250	F2511-ND•	.25	.19	.17
5.000		F2512-ND•	.38	.29	.26
6.000		F2513-ND•	.25	.19	.17
7.000		F2514-ND•	.25	.19	.17
8.000		F2515-ND•	.25	.19	.17
10.000		F2519-ND•	.25	.19	.17
318 Series — Pigtail Type					
.125	250	F208-ND	1.59	1.20	1.06
.250		F209-ND	1.59	1.20	1.06
.500		F212-ND	.98	.74	.66
3.000		F221-ND	.71	.53	.47
8.000		F226-ND	.77	.57	.50
318P Series — Pigtail Type ***RoHS Compliant***					
.125	250	F2603-ND	1.45	1.09	.97
.250		F2604-ND	1.45	1.09	.97
.300		F2605-ND	1.45	1.09	.97
.375		F2606-ND	.64	.48	.43
.500		F2607-ND	.64	.48	.43
1.000	250	F2608-ND	.64	.48	.43
1.500		F2616-ND	.64	.48	.43
1.600		F2617-ND	.64	.48	.43
2.000		F2609-ND	.71	.53	.47
2.500		F2618-ND	.64	.48	.43
3.000	250	F2610-ND	.64	.48	.43
4.000		F2611-ND	.64	.48	.43
5.000		F2612-ND	.64	.48	.43
6.000		F2613-ND	.75	.57	.50
7.000		F2614-ND	.64	.48	.43
8.000		F2615-ND	.64	.48	.43

- ***NEW!*** **312P-KIT-ND Digi-Key® 312 Series *Fast Acting 3AG Cartridge*** 5 each of parts indicated, and 10 each of fuse clips part numbers F040-ND and F052-ND, plus a plastic storage box — ***RoHS Compliant***.. **$109.96**

3AG Glass Body Slo-Blo® Fuses

Patents:
U.S. Patents #4,409,729 and #4,445,106.

Approvals:
Listed by Underwriters Laboratories and Certified by CSA through 8 Amperes. Recognized under the Components Program of UL from 10 through 30 Amperes. 313 000 Series approved by METI from 1~5 Amperes.

Dimensions:
313 Series: Diameter: 1/4" (6.35mm), Length: 1-1/4" (31.75mm).
315 Series: Diameter: .275" (6.99mm), Length: 1.275" (32.39mm); Pigtail Diameter: .032" (.81mm); Pigtail Material: Solder-coated copper.

1-5 Amps
313 Series

QPL

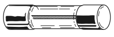

Electrical Characteristics:

Rating	Opening Time
110%	4 hrs., minimum
135%	1 hr., maximum
200%	5 sec., minimum

Amp. Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
313 Series — Cartridge Type					
.010	250	F300-ND	3.58	2.68	2.38
.031		F301-ND	3.58	2.68	2.38
.040		F302-ND	3.58	2.68	2.38
.062		F303-ND	1.84	1.38	1.23
.100		F304-ND	1.84	1.38	1.23
.700	250	F316-ND	1.07	.80	.71
.800		F318-ND	1.07	.80	.71
1.600		F323-ND	.81	.61	.54
2.250		F326-ND	.81	.61	.54
2.500		F327-ND	.81	.61	.54
2.800	250	F328-ND	.81	.61	.54
6.300		F2250-ND	.81	.61	.54
7.000		F334-ND	.81	.61	.54
15.000	32	F338-ND	1.19	.90	.80
25.000		F340-ND	1.19	.90	.80
30.000		F341-ND	1.19	.90	.80
313P Series — Cartridge Type ***RoHS Compliant***					
.010	250	F2524-ND	3.24	2.43	2.16
.031		F2525-ND	3.24	2.43	2.16
.040		F2526-ND•	3.24	2.43	2.16
.062		F2527-ND•	1.68	1.26	1.12
.100		F2528-ND•	1.68	1.26	1.12
.125	250	F2529-ND•	1.68	1.26	1.12
.150		F2530-ND	1.68	1.26	1.12
.175		F2531-ND	.97	.73	.65
.187		F2532-ND•	.97	.73	.65
.200		F2533-ND•	.97	.73	.65
.250	250	F2534-ND•	.97	.73	.65
.300		F2535-ND•	.97	.73	.65
.375		F2536-ND•	1.07	.80	.71
.400		F2537-ND•	.97	.73	.65
.500		F2538-ND•	.74	.56	.49
.600	250	F2539-ND•	.74	.56	.49
.700		F2540-ND	.74	.56	.49
.750		F2541-ND•	.74	.56	.49
.800		F2542-ND•	.74	.56	.49
1.000		F2543-ND•	.74	.56	.49
1.200	250	F2550-ND	.74	.56	.49
1.250		F2564-ND•	.74	.56	.49
1.500	250	F2551-ND•	.74	.56	.49
1.600		F2552-ND•	.74	.56	.49
1.800		F2553-ND	.74	.56	.49
2.000		F2544-ND•	.74	.56	.49
2.250		F2565-ND•	.74	.56	.49
2.500	250	F2557-ND•	.74	.56	.49
2.800		F2558-ND	.74	.56	.49
3.000		F2545-ND•	.74	.56	.49
3.200		F2561-ND•	.74	.56	.49
4.000		F2546-ND•	.96	.72	.64
5.000	250	F2547-ND•	.85	.64	.57
6.250		F2566-ND•	.85	.64	.57
6.300		F2563-ND	.85	.64	.57
7.000		F2548-ND•	.85	.64	.57
8.000		F2549-ND•	.85	.64	.57
10.000	32	F2554-ND•	.85	.64	.57
12.000		F2555-ND•	1.19	.90	.80
15.000		F2556-ND•	1.19	.90	.80
20.000		F2559-ND•	1.08	.81	.72
25.000		F2560-ND•	1.08	.81	.72
30.000		F2562-ND•	1.08	.81	.72
315 Series — Pigtail Type					
1.000	250	F419-ND	1.26	.94	.84
1.500		F422-ND	1.26	.94	.84
2.000		F425-ND	1.26	.94	.84
7.000		F434-ND	1.33	.99	.88
315P Series — Pigtail Type ***RoHS Compliant***					
.100	250	F2586-ND	2.82	2.12	1.88
.250		F2587-ND	1.14	.86	.76
.300		F2588-ND	1.14	.86	.76
.375		F2589-ND	1.14	.86	.76
.500		F2590-ND	1.14	.86	.76
.600	250	F2591-ND	1.14	.86	.76
.750		F2592-ND	1.14	.86	.76
1.000		F2593-ND	1.14	.86	.76
1.500		F2599-ND	1.14	.86	.76
1.600		F2600-ND	1.14	.86	.76
2.000	250	F2594-ND	1.14	.86	.76
2.500		F2601-ND	1.14	.86	.76
3.000		F2595-ND	1.14	.86	.76
3.200		F2602-ND	1.32	.99	.88
4.000		F2596-ND	1.14	.86	.76
5.000	250	F2597-ND	1.14	.86	.76
7.000		F2598-ND	1.14	.86	.76

- ***NEW!*** **313P-KIT-ND Digi-Key® 313 Series Slo-Blo® *3AG Cartridge*** 5 each of parts indicated, and 10 each of fuse clips part numbers F040-ND and F052-ND, plus a plastic storage box ***RoHS Compliant***.. **$89.95**

8AG Fast-Acting Instrument Fuse

Electrical Characteristics:

Rating	Opening Time
100%	4 hrs., minimum
200%	5 sec., maximum

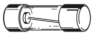

0.25 x 1.00
(6.35 x 25.4)

Amp. Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
361 Series — Fast-Acting Type					
.250	250	F506-ND	.72	.54	.48

8AG Fast-Acting Fuse

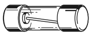

0.25 x 1.00
(6.35 x 25.4)

Approvals:
Listed by UL through 6 Amperes. Certified by CSA from 0.25 through 5 Amperes.

Sold in multiples of 5.

Electrical Characteristics:

Rating	Opening Time
110% 135% 200%	4 hrs., minimum 1 hr., maximum 10 sec., maximum

Amp. Rating	Voltage Rating	Digi-Key Part No.	Price Each		
			5	100	250
362 Series — Fast-Acting Type					
8.000	32	F610-ND	.28	.21	.19

Littelfuse®

ATO Fuseholders

Fig. 1 – Horizontal Mount

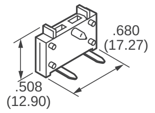

Fig. 2 – Vertical Mount

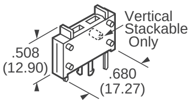

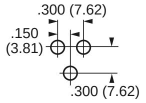

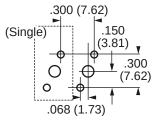

P.C.B. Footprint (Stacked)

Mini Fuse PC Board Fuseholder Specifications:
- **Terminals:** Copper alloy, tin-plated • **Body:** Black thermoplastic (UL 94V0) **Electrical:** Recognized under the Components Program of Underwriters Laboratory for 15 Amperes and Certified by CSA for 10 Amperes. Three fuseholders can be mounted side by side (stacked) and operated at rated current. Contact factory for applications where more than three fuseholders will be stacked.
- **Voltage:** 32 VDC • **Temperature Range:** -40°C ~ 85°C • **PC Board Compatibility:** Designed for use with standard .062" (1.57mm) circuit board.

Fig. 3 – Autofuse Fuse Clip

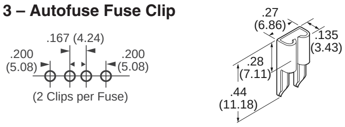

**Fig. 4 – Mini Fuse
Easy-Crimp Fuseholder**

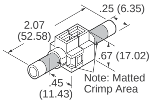

Materials:
- **Body:** Black thermoplastic
- **Terminals:** Tin plated copper alloy
- **Operating Temperature:** -40°C ~ 105°C

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
1	Horizontal Mini Holder	F064-ND	1.70	1.60	.96
2	Single or End Cap Mini Holder	F065-ND	1.70	1.60	.96
2	Stackable Mini Holder	F066-ND	1.70	1.60	.96
3	ATO Fuse Clip	F067-ND	.29	.28	.17
4	In-line Mini Holder	F068-ND*	1.52	1.43	.86
4	In-line Mini Holder	F069-ND†	1.52	1.43	.86

* 20 Amperes maximum rating, terminals accept #16 ~ 22AWG
† 30 Amperes maximum rating, terminals accept #10 ~ 14AWG

Maxifuse Block:

- Rated to 60 Amperes at 32V
- Interlocking block feature
- Built-in mounting bracket

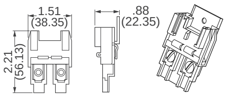

Description	Digi-Key Part No.	Price Each 1	100	250
Maxi Fuse Block	F1085-ND	16.26	13.31	11.83

In-Line Fuseholders:

- Rated at 32V
- Protective cover included

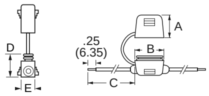

Dim.	Fuse Type - Inch (mm) MINI	ATO	MAXI
A	.52 (13.21)	.97 (24.64)	1.35 (34.29)
B	.97 (24.64)	1.00 (25.40)	3.36 (85.34)
C	4.0 (101.60)	4.0 (101.60)	6.0 (152.40)
D	.60 (15.24)	.67 (17.02)	1.39 (35.31)
E	.41 (10.41)	.43 (10.92)	1.12 (28.45)

Description	AWG Wire	Amp Rtg. (max.)	Digi-Key Part No.	Price Each 1	100	250
In-line Mini Holder	14	20	F1057-ND	3.45	2.33	2.07
In-line Mini Holder	12	30	F1058-ND	3.67	2.49	2.21
In-line Maxi Holder	6	60	F1059-ND	19.37	13.09	11.64
In-line ATO Holder	16	20	F1086-ND	3.39	2.30	2.04
In-line ATO Holder	12	30	F1087-ND	3.92	2.66	2.36

Panel Mount ATO Fuseholder:

- Assembled with 8" (203.2mm) wire loop, no fuse
- #14 wire/terminals rated to 20A
- #10 wire/terminals rated to 30
- Snap mounting to panel
- Fuseholders interlock for multiple mounting.

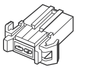

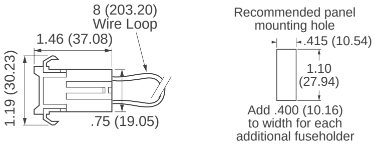

Description	AWG Wire	Amp Rtg. (max.)	Digi-Key Part No.	Price Each 1	100	250
Panel Mount Holder	14	20	F1088-ND	1.55	1.05	.94
Panel Mount Holder	10	30	F1089-ND	2.25	1.53	1.36

In-Line Fuseholder Bayonet Knob

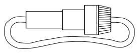

Universal 150145 fuseholder supplied with 15" loop of #14AWG red vinyl wire and 3 springs to accommodate all SFE size and 3AG fuses. 20 Amperes, 32V rated.

F049-ND (Littelfuse # 150145)..**$2.98/1; $27.54/10; $206.55/100**

The 150079 fuseholder is supplied with 19" loop of #14AWG red vinyl insulated wire intended for use with 3AG fuses up to 20 Amperes.

F1467-ND (Littelfuse # 150079) ....**$2.86/1; $26.43/10; $198.23/100**

2AG or 5 x 20mm In-Line Fuseholder Screw Together

Specifications:

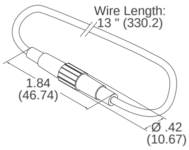

Use with 2AG and 5 x 20mm fuses. Maximum current ratings are 5 Amperes at 32V for 2AG, and 10 Amperes at 32V for the 5 x 20mm size fuses.

Wire: 16 AWG; color red. Molded parts: Black thermoplastic

F1468-ND (Littelfuse # 150274) .....**$2.33/1; $21.54/10; $161.55/100**

Universal In-Line Fuseholder Twist-Lock

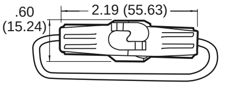

Supplied with 8" (20.32cm) loop of #14 AWG red vinyl insulated wire and two springs.

Electrical: Intended for use at 32V or less with fuses rated up to 20 Amperes when the proper spring is installed for the fuse size.

Molded Parts: Black thermoplastic (UL 94V2). Body halves have a .14" (3.56mm) diameter hole for insulated wire.

Ambient Temperature: -40° ~ 75°C.

F062-ND (Littelfuse #155100).........**$2.15/1; $19.03/10; $155.70/100**

Richco® 'Quick Fit' Fuse Covers

- For use on fuse terminal blocks or PCB-mounted fuse clips • UL recognized E81260, rating 105°C, 600V • Material: Flexible PVC, RMS-55 • Color: Transparent blue

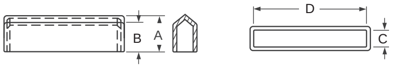

Dim.	Digi-Key Part No. RP613-ND	RP614-ND	RP615-ND	RP616-ND
A	.50 (12.70)	.50 (12.70)	.63 (16.00)	.50 (12.70)
B	.39 (9.91)	.39 (9.91)	.58 (14.73)	.39 (9.91)
C	.24 (6.10)	.28 (7.11)	.32 (8.13)	.32 (8.13)
D	.79 (20.07)	1.18 (29.97)	1.26 (32.00)	1.42 (36.07)

Fuse Type	Digi-Key Part No.	Price Each 25	100	Richco Part No.
Metric	RP613-ND	.57	.49	840620
Metric	RP614-ND	.92	.79	840730
Metric	RP615-ND	.97	.83	840832
Standard	RP616-ND	1.23	1.06	840836

Gangable Alarm Indicating Fuseholder

Dimensions in inches

PCB Mount

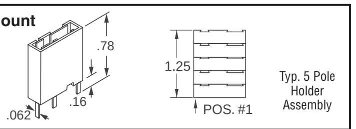

Panel Mount †

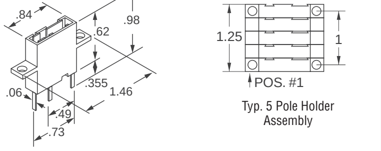

Specifications: • **Electrical:** Rated at 15 Amperes for any voltage up to 125VAC, 125 VDC • **Molded Bodies:** Black, Thermoplastic (UL 94VO) • **Terminals:** Alarm Terminal – Brass, tin-plated, wire-wrap type; Fuse Terminal – Beryllium copper, tin-plated

No. of Poles	Digi-Key Part No. PCB Mt.	Digi-Key Part No. Panel Mt.	Price Each 1	10	100
1	F1400-ND	F1420-ND	1.73	1.60	1.20
2	F1401-ND	F1421-ND	3.46	3.20	2.40
3	F1402-ND	F1422-ND	5.20	4.80	3.60
4	F1403-ND	F1423-ND	6.93	6.40	4.80
5	F1404-ND	F1424-ND	8.66	8.00	6.00
6	F1405-ND	F1425-ND	10.39	9.60	7.20
7	F1406-ND	F1426-ND	12.13	11.20	8.40
8	F1407-ND	F1427-ND	13.86	12.80	9.60
9	F1408-ND	F1428-ND	15.59	14.40	10.80
10	F1409-ND	F1429-ND	17.32	15.99	12.00
11	F1410-ND	F1430-ND	19.05	17.59	13.20
12	F1411-ND	F1431-ND	20.79	19.19	14.40
13	F1412-ND	F1432-ND	22.52	20.79	15.60
14	F1413-ND	F1433-ND	24.25	22.39	16.79
15	F1414-ND	F1434-ND	25.98	23.99	17.99
16	F1415-ND	F1435-ND	27.71	25.59	19.19
17	F1416-ND	F1436-ND	29.45	27.18	20.39
18	F1417-ND	F1437-ND	31.18	28.78	21.59
19	F1418-ND	F1438-ND	32.91	30.38	22.79
20	F1419-ND	F1439-ND	34.64	31.98	23.99

† On Panel Mount, first & last position have mounting holes only.

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE
ELECTRONICS CORP

Fuseholders

For 1/4" (6.35mm)
Assembled with .125" (3.18mm) thick black phenolic

Fig. 1 (3AG)

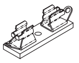

Fig. 2 (3AG)

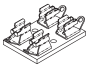

Fig. 3 (3AG)

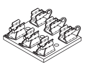

Fig. 4 (3AG)

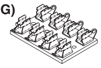

Auto Fuse Holders

Fig. 5

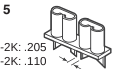

3522-2K: .205
3544-2K: .110

Fig. 6

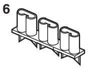

Fig. 7 3AG

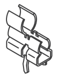

Fig. 8 5mm

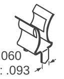

3517: .060
3518P: .093

Fig. 9 2AG

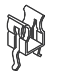

Fig. 10 2AG

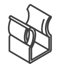

Fig. 11 5mm

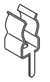

Fig. 12 5mm

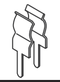

Fig. 13
4527k (5mm)
Order cover separately:
4527CK-ND

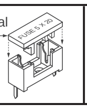

Fig. 14
4245 (3AG)
3527 (5mm)
Order cover separately:
3527CK-ND

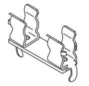

Fig.	Digi-Key Part No.	Pricing 1	10	100	500
1	3536K-ND	1.34	12.40	73.00	300.00
2	3537K-ND	2.20	20.33	130.00	540.00
3	3538K-ND	3.23	29.79	184.00	790.00
4	3539K-ND	3.91	36.53	242.00	1045.00
5	3522-2K-ND	.81	7.12	40.95	185.50
5	3544-2K-ND	.85	7.47	43.00	—
6	3522-3K-ND	1.08	9.45	54.25	246.50
7	3562K-ND	—	2.51	12.00	50.50
8	3517K-ND	—	1.89	9.85	42.00
8	3518PK-ND	—	1.90	9.85	42.00
9	3521K-ND	—	1.62	8.10	36.00
10	3561K-ND	—	1.62	8.10	36.00
11	3520K-ND	—	1.40	7.00	31.75
12	3519K-ND	—	1.38	6.65	30.75
13	4527K-ND	—	4.49	35.80	162.50
—	4527CK-ND	—	2.14	14.95	68.00
14	3527K-ND	1.24	10.84	58.00	245.00
14	4245K-ND	1.59	13.95	72.75	—
—	3527CK-ND	.39	3.69	27.10	—

Littelfuse®

2AG Shock-Safe Panel Mount Fuseholder

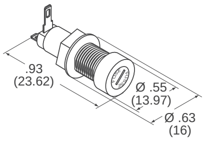

Specifications:
- **Terminals:** Brass, Tin-plated, .110” Solder/Q.C.
- **Current Rating:** 10 Amperes for any voltage up to 300V

F1469-ND
(Littelfuse # 02450001) **$3.57/1; $32.97/10; $247.28/100**

Water Tight 3AG Fuseholder

QPL

Panel Mount

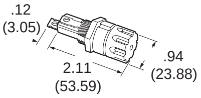

Specifications:
- **Electrical:** 20 Amperes, 250V
- **Knob:** Screw Type
- **Terminals:** Tin-plated, Solder Type
- **Seal:** O-Ring per MIL-PRF-19207

F1479-ND
(Littelfuse # 03420006) **$20.67/1; $190.83/10; $1431.23/100**

Fuse Blocks 5 x 20mm PC Board Type

Specifications:
- **Clip/Terminals:** Tin-plated spring brass
- **Base:** phenolic laminate UL940VO
- **Current Rating:** 6.3 Amperes, 250V

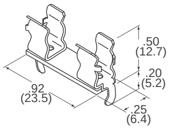

F1501-ND
(Littelfuse # 05200002H) .... **$.88/1; $8.10/10; $60.75/100**

5 x 20mm Fuse Clip Automatic Insertion

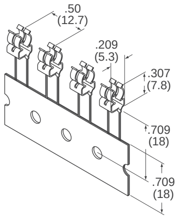

Specification:
- **Clip Material:** Phosphor/Bronze
- **Finish:** Tin-plated
- **Style:** Ear

Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Ammo Size	Pricing
F043CT-ND	.22	1.60	15.68	F043TB-ND	1,000	92.80

Microfuse or PICO II Fuseholder

Fig. 1

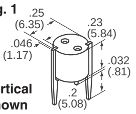

(Silver Plated)

Vertical Shown

Fig. 2

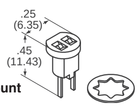

Panel Mount Push-On

Fuseholder will accept Littelfuse Microfuses and PICO II™ fuses (rated to 5 Amperes) with .025” (.64mm) diameter leads.

Electrical: Rated at 5 Amperes for any voltage up to 125V. **Molded Parts:** White thermoplastic, Black panel mount **Terminals:** Copper alloy **Ambient Temperature:** -40°C ~ 100°C, Silver terminal plating

Fig.	Mounting	Digi-Key Part No.	Price Each 1	100	250
1	Vertical	F060-ND•	1.94	1.41	1.26
1	Horizontal	F061-ND•	1.94	1.41	1.26
1	Vertical	F1475-ND†	2.11	1.47	1.30
2	Panel	F1474-ND	2.28	1.58	1.40

†Plating: Tin • UL Recognized

LT-5 Fuseholder

Specifications:
- **Electrical:**
5 Amperes up to 250V
- **Terminals:**
Tin-plated brass, gold inside Molded Parts: Black thermoplastic (UL94VO)

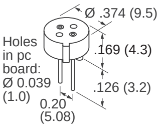

F1473-ND
(Littelfuse # 02800050H) .... **$.53/1; $4.92/10; $36.90/100**

Fuse Clips

Fig. 1	Fig. 2	Fig. 3	Fig. 4	Fig. 5	Fig. 6
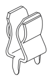	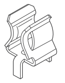	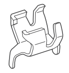	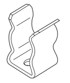	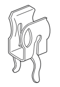	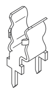

Fig.	Accepts Fuse Type	End Stops (Ears)	Lead Type	Clip Material	Finish	Digi-Key Part No.	Price Each 10	100	250	Littelfuse Part No.
1	3AG (.250” Diameter)	Yes	Straight	Spring Brass	Tin-Plated	F040-ND	.14	.10	.09	102071
1	3AG (.250” Diameter)	No	Straight	Spring Brass	Tin-Plated	F041-ND	.18	.14	.12	102074
1	3AG (.250” Diameter)	Yes	Straight	Beryllium Copper	Silver-Plated	F046-ND	.51	.39	.34	122083
1	3AG (.250” Diameter)	Yes	Straight	Beryllium Copper	Tin-Plated	F045-ND	.42	.32	.28	122088
2	3AG (.250” Diameter)	No	Angled-In	Spring Brass	Tin-Plated	F042-ND	.23	.17	.15	102078
2	3AG (.250” Diameter)	Yes	Angled-In	Spring Brass	Tin-Plated	F052-ND	.23	.17	.15	102079
3	3AG (.250” Diameter)	Yes	Straight	Beryllium Copper	Silver-Plated	F048-ND	.47	.36	.32	122090
4	3AG (.250” Diameter)	No	Rivet/Eyelet	Spring Brass	Nickel-Plated	F038-ND	.17	.13	.11	101002
5	2AG/5 x 20mm	Yes	Straight	Spring Brass	Tin-Plated	F058-ND	.18	.14	.12	111501
5	2AG/5 x 20mm	Yes	Straight	Beryllium Copper	Tin-Plated	F044-ND	.33	.25	.22	111506
6	5 x 20mm	Yes	Straight	Spring Brass	Tin-Plated	F063-ND	.23	.14	.13	100056

Omni-Blok

Specifications:
- **Clip/Terminals:** Tin-plated spring brass
- **Base:** Black thermoplastic glass reinforced UL 94V0 (except 3AG type which is grey)

Agency Approvals/Current Rating			
Series	U.L. (Amps)	CSA (Amps)	VDE/Semko (Amps)
0254	10	10	N/A
354000	30	30	N/A
354060	20	20	N/A
354080	20	20	N/A
354101	15	15	N/A
0520	10	10	6.3

Fig. 1 Solder/Q.C.

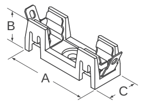

Fig. 2 P.C. Board Mount

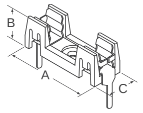

Termination Options					
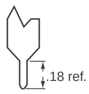 .18 ref.	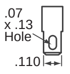 .07 x .13 Hole .110	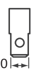 .110	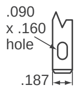 .090 x .160 hole .187	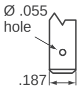 Ø .055 hole .187	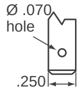 Ø .070 hole .250
Terminal 1 Solder Type P.C. Board Mount	**Terminal 2 .110” Solder/Q.C.**	**Terminal 3 .110” NEMA/Q.C.**	**Terminal 4 .187” Solder/Q.C.**	**Terminal 5 .187” NEMA/Q.C.**	**Terminal 6 .250” Q.C.**

Fig.	Accepts Fuse Type	Terminal Type	Dimensions - Inch A	B	C	Digi-Key Part No.	Price Each 1	10	100	Littelfuse Part No.
					0254 Series (2AG)					
1	2AG	2	.70	.50	.35	F1470-ND	1.07	.99	.75	02540001Z
1	2AG	3	.70	.50	.35	F1472-ND	1.07	.99	.75	02540201Z
2	2AG	1	.70	.50	.35	F1471-ND	.92	.85	.64	02540101Z
					0354 Series (3AG)					
1	1/4” 3AG	4	1.4	.53	.50	F1497-ND	.85	.79	.59	03540001ZXGY
1	1/4” 3AG	5	1.4	.53	.50	F1499-ND	.85	.79	.59	03540601ZXGY
1	1/4” 3AG	6	1.4	.53	.50	F1500-ND	.85	.79	.59	03540801ZXGY
2	1/4” 3AG	1	1.4	.53	.50	F1498-ND	.90	.83	.63	03540101ZXGY
					0520 Series (5 x 20 mm)					
1	5 x 20mm	2	.92	.50	.40	F1503-ND	.88	.81	.61	05200004Z
1	5 x 20mm	3	.92	.50	.40	F1502-ND	.88	.81	.61	05200003Z
2	5 x 20mm	1	.92	.50	.40	F1504-ND	.92	.86	.64	05200101Z

3AG and 5x20mm Traditional Panel Fuseholders

UL Recognized and Certified by CSA

QPL

Fig.1

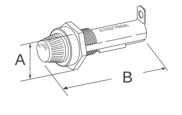

Fig. 2

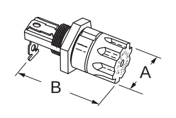

Fig. 3

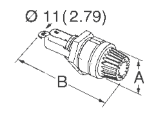

Fig. 4

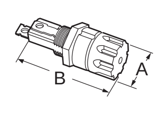

Fig. 5

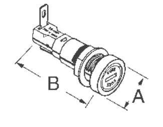

Fig. 6

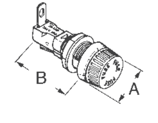

Fig. 7

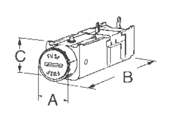

Fig. 8

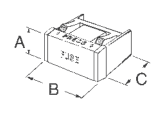

Terminal Orientation

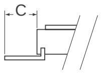

Straight Terminals

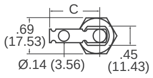

End View
Right Angle Terminals
.250" Solder Terminal Shown

Mounting Hole for
Straight & Right Angle

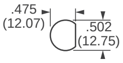

Fig.	Accepts Fuse Type	Terminal Orientation	Terminal Type	Knob Type	Accessories Included	Dimensions–Inch (mm)			Digi-Key Part No.	Price Each			Littelfuse Part No.
						A	B	C		1	10	100	
1	3AG (.250" Diameter)	Rt. Angle	.250" Q.C.	Knurled	—	.73 (18.54)	2.25 (57.15)	—	F002-ND	6.99	6.46	4.85	03420001H
1	3AG (.250" Diameter)	Rt. Angle	Solder	Knurled	—	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F007-ND	2.90	2.68	2.01	03420022H
2	3AG (.250" Diameter)	Rt. Angle	Solder	Fluted	—	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F1478-ND	2.90	2.68	2.01	03420004H
2	3AG (.250" Diameter)	Rt. Angle	Solder	Fluted	Lockwasher	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F004-ND	2.97	2.74	2.06	03420004HXL
2	3AG (.250" Diameter)	Rt. Angle	Solder	Fluted	Lockwasher/Drip Seal	.69 (17.53)	1.78 (45.21)	.63 (16.00)	F003-ND	3.13	2.89	2.17	03420004HXPL
2	3AG (.250" Diameter)	Rt. Angle	.250" Q.C.	Fluted	—	.69 (17.53)	1.78 (45.21)	.59 (14.99)	F012-ND	3.25	3.00	2.25	03420828H
3	3AG (.250" Diameter)	Straight	Solder Eyelet	Knurled	—	.69 (17.53)	2.01 (51.05)	—	F005-ND	2.76	2.55	1.91	03420012H
3	3AG (.250" Diameter)	Straight	Solder Eyelet	Fluted	—	.69 (17.53)	2.01 (51.05)	—	F006-ND	2.76	2.55	1.91	03420014H
4	3AG (.250" Diameter)	Straight	.187" Q.C.	Fluted	—	.69 (17.53)	1.78 (45.21)	.30 (7.62)	F009-ND	3.09	2.86	2.15	03420038H
4	3AG (.250" Diameter)	Straight	.250" Q.C.	Fluted	—	.69 (17.53)	1.70 (43.18)	.40 (10.16)	F013-ND	3.40	3.15	2.36	03420838H
4	3AG (.250" Diameter)	Straight	.250" Q.C.	Knurled	—	.69 (17.53)	1.70 (43.18)	.40 (10.16)	F015-ND	3.40	3.15	2.36	03420858H
5	5 x 20 mm	Rt. Angle	.187" Solder/Q.C.	Screwdriver Slot	—	.65 (16.51)	1.66 (42.16)	.62 (15.75)	F053-ND	4.30	3.98	2.98	03450621H
6	5 x 20 mm	Rt. Angle	.187" Solder/Q.C.	Finger Grip	—	.65 (16.51)	1.66 (42.16)	.62 (15.75)	F054-ND	4.30	3.98	2.98	03450623H
7	3AG (.250" Diameter)	Rt. Angle	P.C. Board Pins	Screwdriver Slot	—	.49 (12.45)	1.77 (44.96)	.48 (12.19)	F055-ND	2.98	2.76	2.07	03450101H
7	3AG (.250" Diameter)	—	—	Screwdriver Slot	Replace. Knob for F055	—	—	—	F1482-ND	1.04	.96	.72	03450101HX020
7	5 x 20 mm	Rt Angle	P.C. Board Pins	Screwdriver Slot	—	.49 (12.45)	1.77 (44.96)	.48 (12.19)	F056-ND	3.86	3.57	2.68	03450121H
8	3AG (.250" Diameter)	Straight	.250" Q.C.	Flip-Top	Spare Fuse Carrier	.75 (19.05)	1.50 (38.10)	1.04 (26.42)	F059-ND	3.83	3.54	2.66	03460877H
8	5 x 20 mm	Straight	.187" Q.C.	Flip-Top	Spare Fuse Carrier	.70 (17.78)	1.03 (26.16)	.94 (23.88)	F1477-ND	5.18	4.79	3.59	02860677H
8	2AG (.177" Diameter)	Straight	.110" Q.C.	Flip-Top	Spare Fuse Carrier	.61 (15.49)	.85 (21.59)	.87 (22.10)	F1476-ND	2.90	2.68	2.01	02860377H

International Shock-Safe Panel Mount Fuseholders

Designed to eliminate the possibility of electrical shock, as defined in IEC 60065 and 60127. Anti-tease feature eliminates circuit interruption when knob is accidentally depressed.

Fig. 1

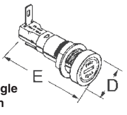

Rt. Angle Shown

Fig. 2

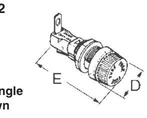

Rt. Angle Shown

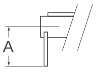

Rt. Angle

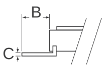

Straight

Terminal Orientation

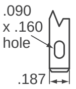

.187"
Solder/Q.C.

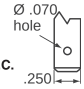

.250"
NEMA Q.C.

Terminal Type

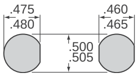

Mounting Holes

Fig.	Accepts Fuse Type	Terminal Orientation	Terminal Type	Body Profile	Knob Type	Dimensions – Inch (mm)					Digi-Key Part No.	Price Each			Littelfuse Part No.
						A	B	C	D	E		1	10	100	
1	2AG (.177" Dia.)	Straight	.187" Solder/Q.C.	Low	Screwdriver Slot (Blue)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F1486-ND	3.26	3.01	2.26	03452LS2H
	3AG (.250" Dia.)	Rt. Angle	.187" Solder/Q.C.	Low	Screwdriver Slot (Gray)	.53 (13.46)	—	—	.60 (15.24)	1.75 (44.45)	F1490-ND	2.37	2.19	1.64	03453LS1H
	3AG (.250" Dia.)	Straight	.187" Solder/Q.C.	Low	Screwdriver Slot (Gray)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F1492-ND	2.53	2.34	1.76	03453LS2H
	3AG (.250" Dia.)	Straight	.187" Solder/Q.C.	Low	Screwdriver Slot (Gray)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F1493-ND**	2.88	2.66	2.00	03453LS2HXNP
	5 x 20mm (.197" Dia.)	Straight	.187" Solder/Q.C.	High	Screwdriver Slot (Black)	—	.30 (7.62)	.020 (0.51)	.60 (15.24)	1.75 (44.45)	F1494-ND	2.53	2.34	1.76	03455HS2H
2	2AG (.177" Dia.) 3AG (.250" Dia.) 3AG (.250" Dia.)	Straight Straight Straight	.187" Solder/Q.C. .187" Solder/Q.C. NEMA .250" Q.C.	Low Low Low	Fingergrip (Black) Fingergrip (Black) Fingergrip (Black)	— — —	.30 (7.62) .30 (7.62) .36 (9.14)	.020 (0.51) .020 (0.51) .032 (0.81)	.60 (15.24) .60 (15.24) .60 (15.24)	2.00 (50.80) 2.00 (50.80) 2.00 (50.80)	F1484-ND F1488-ND F1489-ND	3.26 2.37 2.53	3.01 2.19 2.34	2.26 1.64 1.76	03452LF2H 03453LF2H 03453LF8H

QC=Quick Connect ** Neoprene Washer Drip Proof Seal

Fuseholder Replacement Knobs for International Shock-Safe Fuse Holders

With the universal 345 Series fuseholder, the low profile body holders will accept any one of these replacement knobs.

Fig.	Digi-Key Part No.	Price Each			Littelfuse Part No.
		1	10	100	
1	F1483-ND	1.49	1.38	1.04	03452LF1HX020
2	F1495-ND	1.11	1.02	.77	03455LF1HX020
3	F1487-ND	.84	.78	.59	03453LF1HX020
4	F1485-ND	1.49	1.38	1.04	03452LS1HX020
5	F1496-ND	1.11	1.02	.77	03455LS1HX020
6	F1491-ND	1.11	1.02	.77	03453LS1HX020

Fig. 1

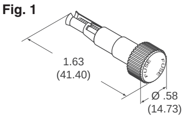

2AG (Black)
Finger Knob

Fig. 2

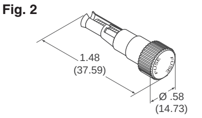

5 x 20mm (Black)
Finger Knob

Fig. 3

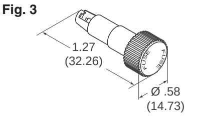

3AG (Black)
Finger Knob

Fig. 4

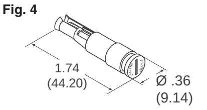

2AG (Blue)
Screwdriver Slot Knob

Fig. 5

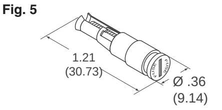

5 x 20mm (Black)
Screwdriver Slot Knob

Fig. 6

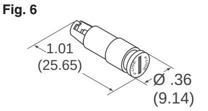

3AG (Gray)
Screwdriver Slot Knob

Polymer ESD Suppressor

PolySURG™

Fig. 1 – 0603

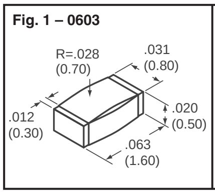

Fig. 2 – (4)1206*

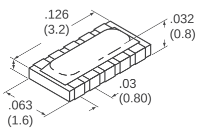

Features: • Exceeds testing requirements outlined in IEC 61000-4-2 • Extremely low capacitance • Very low leakage current • Fast response time • Bi-directional • Lead free solder termination

Part Ratings and Characteristics	Units	Part No.	
		0603ESDA	41206ESDA
Continuous Operating Voltage	VDC	24 (Maximum)	12 (Typical) *(1)*
Clamping Voltage *(3)*	V Typical	35 (60 Maximum)	35 (60 Maximum)
Trigger Voltage *(4)*	V Typical	125	150 (300 Maximum)
ESD Threat Voltage Capability *(5)*	kV Typical	8	8
Capacitance (@ 1kHz – 1.8GHz)	pF Typical	0.15	0.15
Leakage Current (@ 12VDC)	nA Typical	<0.1	<0.1
Peak Current *(3)*	A Typical	30 (45 Maximum)	30 (45 Maximum)
Operating Temperature Range	°C	-56 ~ 105	-40 ~ 85
ESD Pulse With–stand *(3)*	# Pulses Typical *(2)*	>500	>500

Note (1): The product is 100% tested for 30VDC operating voltage at 25°C. Continuous operation with higher than 12VDC under extreme temperature and humidity may cause increasing leakage current and/or shifting device resistance. However, even under severe environmental test, characteristics of the device did not change up to 12VDC operation.

Note (2): Some shifting in characteristics may occur when tested over several hundred ESD pulses at very rapid rate of 1 pulse per second or faster.

Note (3): Per IEC 61000-4-2, 30A @ 8kV, level 4, clamp measurement made 30ns after initiation of pulse, all tests in contact discharge mode.

Note (4): Trigger measurement made using Transmission Line Pulse (TLP) method.

Note (5): PolySurg devices are capable of withstanding up to a 15kV, 45A ESD pulse. Device ratings are given at 8kV per Note 2, unless otherwise specified.

Fig.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 5,000
1	283-2535-1-ND	.35	.33	.25	283-2535-2-ND	675.00
2	283-2536-1-ND*	1.05	.98	.74	283-2536-2-ND*	2025.00

* Four individual suppressors.

NEW! SMD 0603 PolyCHIP™ Fuses

PC06F Series, Fast Acting

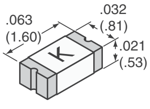

Features:
- Fast Blow Time
- Low resistance
- Low profile
- High inrush withstand capability
- Polymer matrix design
- One time positive disconnect

Electrical Characteristics:
- Opening Time 4 hours Maximum 100% of Amp Rating; Opening Time 5 Seconds Maximum 200% of Amp Rating.

Agency Information: UL Recognition Card: JDYX2, E19180

Soldering Method:
- **Wave Solder:** 260°C, 10 second maximum
- **Infrared:** 260°C, 30 second maximum

Amperage	Rated Voltage (AC/DC)	Interrupting* Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 5,000
500mA	32V	50A	283-2589-1-ND	.88	.82	.62	338.00/M
750mA	32V	50A	283-2590-1-ND	.88	.82	.62	338.00/M
1A	32V	50A	283-2591-1-ND	.88	.82	.62	338.00/M
1.5A	32V	50A	283-2592-1-ND	.88	.82	.62	338.00/M
2A	32V	50A	283-2593-1-ND	.88	.82	.62	338.00/M
2.5A	32V	50A	283-2594-1-ND	.88	.82	.62	338.00/M
3A	32V	50A	283-2595-1-ND	.88	.82	.62	338.00/M
3.5A	32V	50A	283-2596-1-ND	.88	.82	.62	338.00/M
4A	32V	50A	283-2597-1-ND	.88	.82	.62	338.00/M

* DC Interrupting Rating is measured at designated voltage, time constant of less than 50 microseconds, battery source.

† For Tape and Reel part number, change 1-ND to 2-ND.

SMD 0603 Chip Fuses - 0603FA-R Series

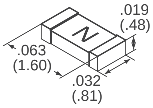

Features:
- Fast Acting
- Rugged ceramic and glass construction

Soldering Method:
- Wave Solder: 260°C, 10 second maximum • Infrared Reflow: 260°C, 30 second maximum

Agency Information:
- UL Recognition Card: JDYX2, E19180
- CSA Component Acceptance Card: 053787 C 000, Class Number 1422 30

Time Current Characteristics:

% of Amp Rating: 100% - 4 hours minimum; 200% - 60 seconds maximum

- Interrupting Rating: 50A (1.25 - 5 Current; 35A)

Amperage	Rated Voltage DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 5,000
250mA	32	283-2552-1-ND	.88	.82	.62	337.50/M
375mA	32	283-2553-1-ND	.95	.88	.67	364.50/M
500mA	32	283-2554-1-ND	.95	.88	.67	364.50/M
750mA	32	283-2555-1-ND	.95	.88	.67	364.50/M
1A	32	283-2556-1-ND	.95	.88	.67	364.50/M
1.25A	32	283-2557-1-ND	.95	.88	.67	364.50/M
1.5A	32	283-2558-1-ND	.75	.70	.53	290.25/M
2A	32	283-2559-1-ND	.75	.70	.53	290.25/M
2.5A	24	283-2560-1-ND	.70	.65	.49	290.25/M
3A	24	283-2561-1-ND	.75	.70	.53	290.25/M
3.5A	24	283-2562-1-ND	.75	.70	.53	290.25/M
4A	24	283-2563-1-ND	.75	.70	.53	290.25/M
5A	24	283-2564-1-ND	.75	.70	.53	290.25/M

† For Tape and Reel part number, change 1-ND to 2-ND.

SMD 1206 Chip Fuses - 3216FF Series

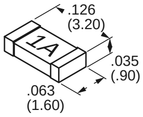

Features:
- Fast acting

Time Current Characteristics
- Will carry 100% of rated current for a minimum of 4 hours, and will open within 5 seconds at 250% of rated current (250mA-3A).
- The 4-5A fuses will open within 1 second at 350% of rated current.

Construction Material:
- Body: Ceramic substrate encapsulated with glass
- Leads: Over-plated with nickel and tin-lead

Agency Approvals:

UL Recognized (All Ratings), CSA Certified (1.5-3A), and CSA Component Acceptance (250-750mA, 1A, 4-5A)

Current Rating	Rated Voltage AC/DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 3,000
.250	32/63	283-2440-1-ND	.82	.77	.58	—
.500	32/63	283-2442-1-ND	.82	.77	.58	—
.750	32/63	283-2443-1-ND	.82	.77	.58	—
1.25	32/63	283-2445-1-ND	.82	.77	.58	317.25/M
1.5	32/63	283-2446-1-ND	.82	.77	.58	—
2.5	32/63	283-2448-1-ND	.82	.77	.58	317.25/M
3	32/63	283-2449-1-ND	.82	.77	.58	—
4.5	32/32	283-2451-1-ND	.82	.77	.58	—

† For Tape and Reel part number, change 1-ND to 2-ND.

SMD 1206 Chip Fuses - 3216FF-R Series

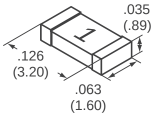

Features:
- Fast Acting

Soldering Method:
- Wave Immersion: 260°C, 10 seconds maximum
- Infrared Reflow: 260°C, 30 seconds maximum

Agency Information:
- UL Recognition: JDYX2/E19180
- CSA Component Acceptance: 053787 C 000, Class Number 1422 30

Time Current Characteristics:

% of Amp Rating: 100% - 4 hours minimum (250mA - 7A); 200% - 60 seconds maximum (1.25A - 3A); 250% - 5 seconds maximum (250mA - 3A); 350% - 1 second maximum (4A - 7A)
- Interrupting Rating: 50A

Amperage	Rated Voltage AC/DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 3,000
250mA	32/63	283-2537-1-ND	.82	.77	.58	317.25/M
375mA	32/63	283-2538-1-ND	.84	.79	.60	325.35/M
500mA	32/63	283-2539-1-ND	.82	.77	.58	317.25/M
750mA	32/63	283-2540-1-ND	.82	.77	.58	317.25/M
1A	32/63	283-2541-1-ND	.82	.77	.58	317.25/M
1.25A	32/63	283-2542-1-ND	.82	.77	.58	317.25/M
1.5A	32/63	283-2543-1-ND	.82	.77	.58	317.25/M
2A	32/63	283-2544-1-ND	.82	.77	.58	317.25/M
2.5A	32/63	283-2545-1-ND	.82	.77	.58	317.25/M
3A	32/63	283-2546-1-ND	.82	.77	.58	317.25/M
4A	32/32	283-2547-1-ND	.82	.77	.58	317.25/M
4.5A	32/32	283-2548-1-ND	.82	.77	.58	317.25/M
5A	32/32	283-2549-1-ND	.82	.77	.58	317.25/M
6.5A	32/32	283-2550-1-ND	.84	.79	.60	325.35/M
7A	32/32	283-2551-1-ND	.84	.79	.60	325.35/M

† For Tape and Reel part number, change 1-ND to 2-ND.

Telecom Circuit Protectors – TCP Series

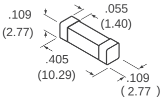

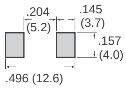

Features: • Allows compliance with telecom regulatory standards including Bellcore GR 1089 UL 1950/60950 and FCC part 68. Application circuit testing is recommended. • Eliminates the need for a current limiting resistor.

Soldering Method: • Wave Immersion: 260°C, 3 seconds maximum • Infrared: 240°C, 30 seconds maximum

Agency Information: • UL Recognition Card: JDYX2/E19180 • CSA Component Certification Record and Class No.: 053787C000, 1422 30

Lightning Surge Specifications: • TCP 500mA Tested: FCC 47 Part 68; Metallic Type A and Longitudinal Type B • TCP 1.25A Tested: FCC 47 Part 68; Metallic Type B and Longitudinal Type A, and Bellcore GR-1089-CORE; First Level Lightning

Amp Rate	Volt. Rating	Part Marking	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R† Pricing 2,500
0.5	250VAC	FR	283-2533-1-ND	1.09	1.01	.76	1046.25
1.25	250VAC	JR	283-2534-1-ND	1.09	1.01	.76	1204.88

† For Tape and Reel part number, change 1-ND to 2-ND.

SMD TRON®

Surface Mount Fuses - SFT

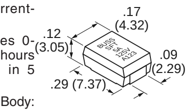

Characteristics: • Fast-Acting • Current-Limiting.

Time Current: Rated current values 0-10 amps carry 100% of rating for 4 hours minimum; open at 250% of rating in 5 seconds maximum

Construction Material: Solid Matrix • Body: Thermoplastic, with a rating of 94V-O • Leads: Base-Copper, Barrier-Nickel (50-100 micro inches), Finish: Electroplated tin (400-500 micro inches with a 2-10% lead content).

Agency Approvals: UL Recognized (250mA-7A), and CSA Component Acceptance (250mA-7A).

Current Rating	Rated Voltage AC/DC	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T&R ‡ Pricing 500
1.5A	125/125	283-2431-1-ND†	1.53	1.42	1.08	349.60
5A	125/125	283-2437-1-ND†	1.53	1.42	1.08	349.60

† Not intended for "New Design"

‡ For Tape and Reel part number, change 1-ND to 2-ND.

COOPER Bussmann

RoHS COMPLIANT

Brick Fuses – 6125FA Series

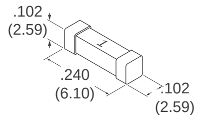

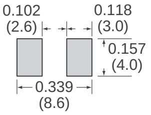

Features: • Environmentally rugged, complies with the EIA-IS-722 Standard • Solder Immersion Compatible • Wire-in-air design
Soldering Method: • Wave Solder: 260°C, 10 seconds maximum (MIL-STD-202, Method 210) • Infrared Reflow: 260°C, 30 second maximum
Agency Information: • UL Listed Guide and File Numbers (250mA-12A): JDYX & E195337 • UL Recognized Guide and File Numbers (15A): JDYX2 & E195337 • CSA Component Acceptance: 053787 C 000 & Class No: 1422 30
Electrical Characteristics: % of Amp Rating: 100% – 4 hours minimum, 200% – 5 seconds maximum Voltage Rating: 125VAC (250mA – 12A), 125VDC (250mA – 7A), 86VDC (250mA – 15A)

Amp-erage	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T&R Pricing 5,000
250mA	283-2521-1-ND	.87	.81	.61	283-2521-2-ND	1674.00
500mA	283-2522-1-ND	.81	.75	.57	283-2522-2-ND	1674.00
750mA	283-2523-1-ND	.87	.81	.61	283-2523-2-ND	1674.00
1A	283-2524-1-ND	.87	.81	.61	283-2524-2-ND	1674.00
2A	283-2525-1-ND	.87	.81	.61	283-2525-2-ND	1674.00
3A	283-2526-1-ND	.87	.81	.61	283-2526-2-ND	1674.00
4A	283-2527-1-ND	.87	.81	.61	283-2527-2-ND	1674.00
5A	283-2528-1-ND	.87	.81	.61	283-2528-2-ND	1674.00
7A	283-2529-1-ND	.81	.75	.57	283-2529-2-ND	1674.00
10A	283-2530-1-ND	.87	.81	.61	283-2530-2-ND	1674.00
12A	283-2531-1-ND	.87	.81	.61	283-2531-2-ND	1674.00
15A	283-2532-1-ND	.87	.81	.61	283-2532-2-ND	1674.00

PC-TRON® Subminiature Fuses

Characteristics:

Offers short-circuit performance which until now could only be found in much larger size glass tube fuses. At 250VAC, the 1/2 to 3 amp PC-Tron can safely interrupt 50 amperes; at 125VAC the 1/2 to 5 amp versions can interrupt 10,000 amperes. This makes the PC-Tron subminiature fuse ideal for line-side protection of power supplies.

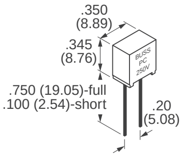

Time Current:

• Carry 100% of rating for 4 hours minimum; open at 200% of rating in 10 seconds maximum

Construction Material: • Body: High temperature plastic • Leads: Tin plated copper

Agency Approvals: UL Recognized and CSA Certified

Current Rating	Rated Voltage AC/DC	Digi-Key Part No.	Price Each 1	10	100
NEW! PCB-R Series - Full Lead Length RoHS Compliant NEW!					
1/2A	250/450	283-2757-ND	1.87	1.59	1.30
3/4A	250/450	283-2762-ND	1.87	1.59	1.30
1A	250/450	283-2756-ND	1.87	1.59	1.30
1-1/2A	250/450	283-2758-ND	1.87	1.59	1.30
2A	250/450	283-2759-ND	1.87	1.59	1.30
2-1/2A	250/450	283-2760-ND	1.87	1.59	1.30
3A	250/350	283-2761-ND	1.87	1.59	1.30
NEW! PCC-R Series - Short Lead Length RoHS Compliant NEW!					
1/2A	250/450	283-2764-ND	1.87	1.59	1.30
3/4A	250/450	283-2769-ND	1.87	1.59	1.30
1A	250/450	283-2763-ND	1.87	1.59	1.30
1-1/2A	250/450	283-2765-ND	1.87	1.59	1.30
2A	250/450	283-2766-ND	1.87	1.59	1.30
2-1/2A	250/450	283-2767-ND	1.87	1.59	1.30
3A	250/350	283-2768-ND	1.87	1.59	1.30
NEW! PCE-R Series - Short Lead Length RoHS Compliant NEW!					
5A	125/250	283-2770-ND	1.87	1.59	1.30

Current Rating	Rated Voltage AC/DC	Digi-Key Part No.	Price Each 1	10	100
PCB Series - Full Lead Length					
3/4A	250/450	283-2112-ND	1.73	1.44	1.30
1A	250/450	283-2113-ND	1.73	1.44	1.30
1-1/2A	250/450	283-2114-ND	1.73	1.44	1.30
2A	250/450	283-2115-ND	1.73	1.44	1.30
2-1/2A	250/450	283-2116-ND	1.73	1.44	1.30
3A	250/350	283-2117-ND	1.73	1.44	1.30
PCC Series - Short Lead Length					
1/2A	250/450	283-2118-ND	1.73	1.44	1.30
3/4A	250/450	283-2119-ND	1.73	1.44	1.30
1A	250/450	283-2120-ND	1.73	1.44	1.30
1-1/2A	250/450	283-2121-ND	1.73	1.44	1.30
2A	250/450	283-2122-ND	1.73	1.44	1.30
2-1/2A	250/450	283-2123-ND	1.73	1.44	1.30

NEW! Time-Delay Radial Fuses SR-5 Series IEC 60127-3

RoHS COMPLIANT

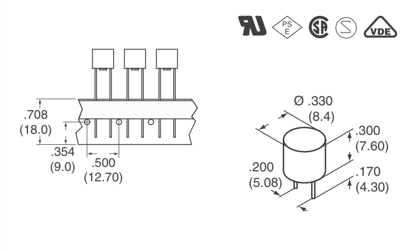

Description:

• Place directly into PCB or plug into BK/PCS holder (283-2356-ND)

Characteristics:

Rated Current value 400mA~5A carry 200% for 2 minutes maximum; 275% for 400 millisecond minimum and 10 seconds maximum; 400% for 150 millisecond minimum, 3 seconds maximum; 1000% for 20 millisecond minimum and 150 millisecond maximum.

Agency Information:

• UL Recognition: E146895 • CSA: LR98127 • VDE: 122052 • SEMKO: 9914133 • MITI: 32-1966

Amp-erage	Cur-rant Rating	Rated Voltage (AC/DC)	Digi-Key Part No.	Price Each 1	10	100
SR-5 Series - Bulk Pack						
400mA	250V	35A	283-2577-ND	1.50	1.38	1.13
500mA	250V	35A	283-2578-ND	1.50	1.38	1.13
630mA	250V	35A	283-2579-ND	1.50	1.38	1.13
800mA	250V	35A	283-2580-ND	1.50	1.38	1.13
1A	250V	35A	283-2581-ND	1.50	1.38	1.13
1.25A	250V	35A	283-2582-ND	1.50	1.38	1.13
1.6A	250V	35A	283-2583-ND	1.50	1.38	1.13
2A	250V	35A	283-2584-ND	1.50	1.38	1.13
2.5A	250V	35A	283-2585-ND	1.50	1.38	1.13
3.15A	250V	35A.	283-2586-ND	1.50	1.38	1.13
4A	250V	40A	283-2587-ND	1.50	1.38	1.13
5A	250V	50A	283-2588-ND	1.50	1.38	1.13

Amp-erage	Cur-rant Rating	Rated Voltage (AC/DC)	Digi-Key Part No.	Ammo Pack Pricing 1000	5000
SR-5 Series					
400mA	250V	35A	283-2565-3-ND	421.00	1885.00
500mA	250V	35A	283-2566-3-ND	421.00	1885.00
630mA	250V	35A	283-2567-3-ND	421.00	1885.00
800mA	250V	35A	283-2568-3-ND	421.00	1885.00
1A	250V	35A	283-2569-3-ND	421.00	1885.00
1.25A	250V	35A	283-2570-3-ND	421.00	1885.00
1.6A	250V	35A	283-2571-3-ND	421.00	1885.00
2A	250V	35A	283-2572-3-ND	421.00	1885.00
2.5A	250V	35A	283-2573-3-ND	421.00	1885.00
3.15A	250V	35A	283-2574-3-ND	421.00	1885.00
4A	250V	40A	283-2575-3-ND	421.00	1885.00
5A	250V	50A	283-2576-3-ND	421.00	1885.00

PC-Tron®
PCB Mount Fuseholder

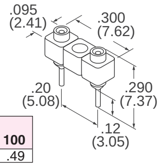

Digi-Key Part No.	Price Each 1	10	100
283-2356-ND	.65	.55	.49

Fast-Acting and Time-Delay Glass Fuses
C515, C518, C519, C520 Series
.205" x .591" (5mm x 5mm)

Construction Material:

- **Endcaps:** Silver-plated brass
- **Leads:** Tin-plated copper
- **Tube:** Glass.

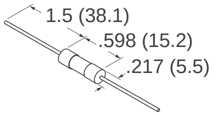

Agency Approvals:
C518: UL Listed (125mA-4A), CSA Component Acceptance (125mA-4A)
C520: UL Listed (125mA-5A), CSA Component Acceptance (125mA-5A)
C515 and C519: UL Listed (250mA-3A), CSA Certification (250mA-3A), UL Recognized (3.5A-7A), Telecommunication Capabilities: UL1459 and UL497.

Limits for Pre-arcing Time/UL Listed Fuses

Amp Rating	135% Maximum	110% Minimum	200% Minimum	200% Maximum
C518 and C520 Series				
125mA - 7A	1 hour	4 hour	—	2 seconds
C515 and C519 Series				
250mA - 7A	60 minutes	—	3 seconds	2 minutes

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
C518 Series (Axial) Fast Acting					
125mA	250	283-2360-ND	.98	.73	.65
250mA	250	283-2361-ND	.98	.73	.65
375mA	250	283-2362-ND	.98	.73	.65
500mA	250	283-2363-ND	.98	.73	.65
750mA	250	283-2364-ND	.98	.73	.65
2A	250	283-2365-ND	.75	.56	.50
2.5A	250	283-2366-ND	.75	.56	.50
3A	250	283-2367-ND	1.01	.76	.68
3.5A	250	283-2368-ND	.75	.56	.50
4A	250	283-2369-ND	.75	.56	.50
C520 Series (Cartridge) Fast Acting					
125mA	250	283-2371-ND	.74	.56	.50
250mA	250	283-2372-ND	.74	.56	.50
500mA	250	283-2374-ND	.51	.39	.34
750mA	250	283-2375-ND	.51	.39	.34
2.5A	250	283-2377-ND	.51	.39	.34
3A	250	283-2378-ND	.51	.39	.34
3.5A	250	283-2379-ND	.51	.39	.34
4A	250	283-2380-ND	.51	.39	.34
5A	250	283-2381-ND	.51	.39	.34
C515 Series (Axial) Time-Delay					
250mA	250	283-2239-ND	.84	.63	.56
500mA	250	283-2241-ND	.84	.63	.56
750mA	250	283-2242-ND	.84	.63	.56
1A	250	283-2243-ND	.84	.63	.56
3.5A	125	283-2244-ND	.84	.63	.56
4A	125	283-2245-ND	.84	.63	.56
7A	125	283-2246-ND	.84	.63	.56
C519 Series (Cartridge) Time-Delay					
250mA	250	283-2247-ND	.59	.44	.39
500mA	250	283-2249-ND	.59	.44	.39
750mA	250	283-2250-ND	.61	.46	.41
1A	250	283-2251-ND	.61	.46	.41
1.5A	250	283-2252-ND	.61	.46	.41
2A	250	283-2253-ND	.61	.46	.41
3A	250	283-2254-ND	.61	.46	.41
4A	125	283-2256-ND	.61	.46	.41
5A	125	283-2257-ND	.61	.46	.41
7A	125	283-2258-ND	.61	.46	.41

COOPER Bussmann

MCRW Microtron® Fuses

Characteristics:

- Fast-Acting
- Current-Limiting

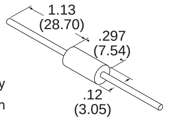

Time Current Characteristics:

Rated current values 0-10 amps carry 100% of rating for 4 hours minimum; open at 200% of rating in 5 seconds maximum.

Construction Material:

- Body: High temperature thermoplastic, flammability rating UL 94V-O
- Element: Wire-in-air design
- Leads: Tin-plated copper, .64mm (.025") diameter.

Agency Approvals: UL Recognized (1/16-10A), CSA Component Acceptance (1/16-10A)

Cur-rent Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
1/8	125/125	283-2069-ND	.66	.50	.44
1/4	125/125	283-2070-ND	.66	.50	.44
1/2	125/125	283-2072-ND	.66	.50	.44
3/4	125/125	283-2073-ND	.66	.50	.44
1	125/125	283-2074-ND	.66	.50	.44
1-1/2	125/125	283-2075-ND	.66	.50	.44
2	125/125	283-2076-ND	.66	.50	.44
3	125/125	283-2078-ND	.66	.50	.44
4	125/125	283-2080-ND	.66	.50	.44
5	125/125	283-2081-ND	.66	.50	.44
7	125/125	283-2082-ND	.66	.50	.44
10	125/125	283-2083-ND	.66	.50	.44

AGC Fast-Acting and MDL Time-Delay Glass Fuses

1/4" x 1-1/4" (6.35mm x 31.75mm)

Time Current Characteristics:

Rated current values 0-30 amps carry 110% of rating for 4 hours minimum; open at 135% of rating in 60 minutes maximum or 200% of rating in 120 seconds maximum

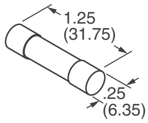

Construction Material:

- Tube: Glass
- Endcaps: Albaloy plated brass

Agency Approvals:

AGC Fast-Acting:

UL Recognized (15-30A), UL Listed (1/4-10A) and CSA Component Acceptance (1/4-30A)

MDL Time-Delay:

UL Listed (1/4-8A), UL Recognized (9-30A), and CSA Component Acceptance (1/4-8A)

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
NEW! AGC-R Fast-Acting - RoHS Compliant NEW!					
3/10	250	283-2630-ND	1.06	.90	.74
3/8	250	283-2632-ND	1.06	.90	.74
1/4	250	283-2621-ND	1.06	.90	.74
1/2	250	283-2620-ND	.49	.42	.34
3/4	250	283-2631-ND	.49	.42	.34
1	250	283-2619-ND	.31	.27	.22
1-1/4	250	283-2624-ND	.31	.27	.22
1-1/2	250	283-2623-ND	.31	.27	.22
2	250	283-2626-ND	.31	.27	.22
2-1/2	250	283-2628-ND	.31	.27	.22
3	250	283-2629-ND	.31	.27	.22
4	250	283-2634-ND	.48	.41	.34
5	250	283-2635-ND	.48	.41	.34
6	250	283-2636-ND	.48	.41	.34
7	250	283-2637-ND	.48	.41	.34
8	250	283-2638-ND	.57	.48	.40
10	32	283-2622-ND	.57	.48	.40
15	32	283-2625-ND	.44	.38	.31
20	32	283-2627-ND	.44	.38	.31
30	32	283-2633-ND	.44	.38	.31
NEW! MDL-R Time-Delay - RoHS Compliant NEW!					
3/10	250	283-2746-ND	1.07	.91	.75
3/8	250	283-2748-ND	1.07	.91	.75
1/4	250	283-2735-ND	1.07	.91	.75
1/2	250	283-2734-ND	1.02	.87	.71
3/4	250	283-2747-ND	1.02	.87	.71
1	250	283-2733-ND	1.02	.87	.71
1-1/4	250	283-2738-ND	.78	.66	.54
1-1/2	250	283-2737-ND	.78	.66	.54
2	250	283-2741-ND	.78	.66	.54
2-1/2	250	283-2743-ND	.78	.66	.54
3	250	283-2745-ND	.78	.66	.54
3-1/2	250	283-2750-ND	.78	.66	.54
4	250	283-2751-ND	.78	.66	.54
5	250	283-2752-ND	.78	.66	.54
6-1/4	250	283-2753-ND	.78	.66	.54
7	250	283-2754-ND	.78	.66	.54
8	250	283-2755-ND	.78	.66	.54
10	32	283-2736-ND	1.15	.98	.80
12	32	283-2739-ND	1.15	.98	.80
15	32	283-2740-ND	1.15	.98	.80
20	32	283-2742-ND	1.15	.98	.80
25	32	283-2744-ND	1.15	.98	.80
30	32	283-2749-ND	1.15	.98	.80

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
AGC Fast-Acting					
1/4	250	283-2009-ND	.99	.74	.66
3/8	250	283-2011-ND	.99	.74	.66
1/2	250	283-2012-ND	.46	.34	.31
1-1 /4	250	283-2016-ND	.29	.22	.19
2-1/2	250	283-2021-ND	.29	.22	.19
4	250	283-2023-ND	.45	.34	.30
6	250	283-2025-ND	.45	.34	.30
20	32	283-2030-ND	.41	.31	.27
30	32	283-2031-ND	.41	.31	.27
MDL Time-Delay					
3/10	250	283-2168-ND	.99	.75	.66
3/8	250	283-2169-ND	.99	.75	.66
1/2	250	283-2171-ND	.95	.71	.63
1-1/4	250	283-2178-ND	.72	.54	.48
2	250	283-2182-ND	.72	.54	.48
2-1/2	250	283-2184-ND	.72	.54	.48
3-1/2	250	283-21 88-ND	.72	.54	.48
4	250	283-2189-ND	.72	.54	.48
7	250	283-2192-ND	.72	.54	.48
8	250	283-2193-ND	.72	.54	.48
10	32	283-2194-ND	1.06	.80	.71
15	32	283-2196-ND	1.06	.80	.71
20	32	283-2197-ND	1.06	.80	.71
25	32	283-2198-ND	1.06	.80	.71

ABC Fast-Acting and MDA Time-Delay Ceramic Fuses

1/4" x 1-1/4" (6.35mm x 31.75mm)

Time Current Characteristics:

Rated current values 0-30 amps carry 110% of rating for 4 hours minimum; open at 135% of rating in 60 minutes maximum or 200% of rating in 120 seconds maximum

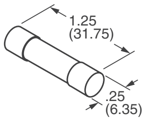

Construction Material:

- Ceramic
- Endcaps: Albaloy plated brass

Agency Approvals:

ABC Fast-Acting: UL Listed (1/2-15A), UL Recognized (20A), and CSA Certification (1/2-15A)

MDL Time-Delay: UL Listed (1/12-20A), CSA Certified (1/2-15A)

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
NEW! ABC-R Fast-Acting - RoHS Compliant NEW!					
1/2	250	283-2606-ND	1.88	1.59	1.30
3/4	250	283-2613-ND	.85	.73	.59
1	250	283-2605-ND	.82	.70	.57
2	250	283-2610-ND	.82	.70	.57
3	250	283-2612-ND	.82	.70	.57
4	250	283-2615-ND	.82	.70	.57
5	250	283-2616-ND	.78	.66	.54
6	250	283-2617-ND	.78	.66	.54
8	250	283-2618-ND	.82	.70	.57
10	250	283-2607-ND	.78	.66	.54
12	250	283-2608-ND	.78	.66	.54
15	250	283-2609-ND	.78	.66	.54
20	250	283-2611-ND	1.13	.96	.79
30	125	283-2614-ND	1.13	.96	.79
NEW! MDA-R Time Delay - RoHS Compliant NEW!					
1/2	250	283-2721-ND	1.92	1.63	1.33
1	250	283-2720-ND	1.92	1.63	1.33
2	250	283-2725-ND	1.92	1.63	1.33
3	250	283-2727-ND	1.34	1.13	.93
4	250	283-2729-ND	1.34	1.13	.93
5	250	283-2730-ND	1.34	1.13	.93
6	250	283-2731-ND	1.34	1.13	.93
8	250	283-2732-ND	1.34	1.13	.93
10	250	283-2722-ND	1.34	1.13	.93
12	250	283-2723-ND	1.34	1.13	.93
15	250	283-2724-ND	1.34	1.13	.93
20	250	283-2726-ND	1.34	1.13	.93
30	250	283-2728-ND	1.34	1.13	.93

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
ABC Fast-Acting					
1/2	250	283-2095-ND	1.74	1.30	1.16
3/4	250	283-2096-ND	.79	.59	.53
1	250	283-2097-ND	.76	.57	.51
2	250	283-2098-ND	.76	.57	.51
3	250	283-2099-ND	.76	.57	.51
4	250	283-2100-ND	.76	.57	.51
5	250	283-2101-ND	.72	.54	.48
6	250	283-2102-ND	.72	.54	.48
10	250	283-2105-ND	.72	.54	.48
12	250	283-2106-ND	.72	.54	.48
15	250	283-2107-ND	.72	.54	.48
30	125	283-2110-ND	1.05	.79	.70
MDA Time Delay					
1/2	250	283-2289-ND	1.78	1.33	1.18
1	250	283-2293-ND	1.78	1.33	1.18
2	250	283-2297-ND	1.78	1.33	1.18
3	250	283-2300-ND	1.24	.93	.83
4	250	283-2302-ND	1.24	.93	.83
5	250	283-2303-ND	1.24	.93	.83
6	250	283-2304-ND	1.24	.93	.83
12	250	283-2309-ND	1.24	.93	.83
30	250	283-2313-ND	1.24	.93	.83

COOPER Bussmann

ATC® Blade-Type Automotive Fuses

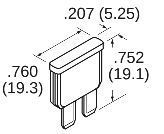

Rated Voltage: 32 VDC

Characteristics: Fast-Acting

Agency Approvals: UL Recognized (3-30A)

Current Rating	Color Code	Digi-Key Part No.	Price Each 5	100	250
3	Violet	283-2314-ND	.41	.37	.33
4	Pink	283-2315-ND	.41	.37	.33
5	Tan	283-2316-ND	.41	.37	.33
7-1/2	Brown	283-2317-ND	.41	.37	.33
10	Red	283-2318-ND	.41	.37	.33
15	Blue	283-2319-ND	.41	.37	.33
20	Yellow	283-2320-ND	.41	.37	.33
25	Clear	283-2321-ND	.41	.37	.33
30	Green	283-2322-ND	.41	.37	.33

ATC® Blade-Type Holders

Rated Current: 3-20 Amps

Rated Voltage: 32VDC, 16AWG wire 4” (101.60mm) length

Fig. 1

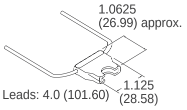

Bussman #HHC

Fig. 2

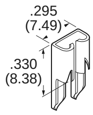

Bussman #1A5600-R

Fig	Description	Digi-Key Part No.	Price Each 1	10	100
1	In-Line for ATC	283-2357-ND	2.97	2.63	2.01
2	Fuse Clip ATC Brass with Tin Plate	283-2604-ND ***NEW!***	.45	.39	.32

Metric Ferrule Fuses

(5mm x 20mm) .205” x .787”

IEC 60127-2

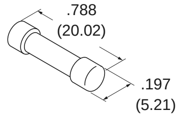

Construction Material: • Tube: Ceramic, S501-R (GDA Series); Glass, S500-R (GDB Series) and S506-R (GDC Series) • End Caps: Nickel or silver-plated brass.
Agency Approvals: S501-R (GDA Series): VDE (4 & 6.3A), Semko (400mA-6.3A), IMQ (2-6.3A) and UL Recognized (400mA-6.3A). **S500-R (GDB Series) and S506-R (GDC Series):** BSI (100mA-6.3A), VDE (100mA-6.3A), Semko (100mA-400mA, 800mA-6.3A), IMQ (100mA-6.3A) and UL Recognized (100mA-6.3A)

Limits for Pre-arcing Time/UL Listed Fuses.

Amp Rating	150% Minimum	210% Maximum	275% Minimum–Maximum	400% Minimum–Maximum	1000% Maximum
S501-R (GDA Series)					
100mA – 3.15A	60min.	30min.	10ms. – 2sec.	3ms. – 300ms.	20ms.
4A – 6.3A	60min.	30min.	10ms. – 3sec.	3ms. – 300ms.	20ms.
S500-R (GDB Series)					
100mA	60min.	30min.	10ms. – 500ms.	3ms. – 100ms.	20ms.
125mA – 6.3A	60min.	30min.	50ms. – 2sec.	10ms. – 300ms.	20ms.
8A – 10A	60min.	30min.	—	—	40ms.
S506-R (GDC Series)					
100mA	60min.	2min.	200ms. – 10sec.	40ms. – 3sec.	10ms. – 300ms.
125mA – 6.3A	60min.	2min.	600ms. – 10sec.	150ms. – 3sec.	20ms. – 300ms.

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
NEW! S501-R (GDA Series)† - Fast- Acting, High Breaking RoHS Compliant NEW!					
100mA	250	283-2659-ND	1.46	1.24	1.02
160mA	250	283-2660-ND	1.46	1.24	1.02
400mA	250	283-2665-ND	1.46	1.24	1.02
500mA	250	283-2667-ND	1.21	1.03	.84
630mA	250	283-2670-ND	1.21	1.03	.84
800mA	250	283-2671-ND	1.21	1.03	.84
1A	250	283-2661-ND	1.21	1.03	.84
1.6A	250	283-2658-ND	1.21	1.03	.84
2A	250	283-2663-ND	1.21	1.03	.84
2.5A	250	283-2662-ND	1.21	1.03	.84
3.15A	250	283-2664-ND	1.21	1.03	.84
4A	250	283-2666-ND	1.21	1.03	.84
5A	250	283-2668-ND	1.21	1.03	.84
6.3A	250	283-2669-ND	1.21	1.03	.84
NEW! S500-R (GDB Series)§ - Fast-Acting, Low Breaking RoHS Compliant NEW!					
100mA	250	283-2674-ND	1.46	1.24	1.02
125mA	250	283-2676-ND	1.46	1.24	1.02
160mA	250	283-2677-ND	.83	.71	.58
250mA	250	283-2680-ND	.83	.71	.58
315mA	250	283-2683-ND	.83	.71	.58
500mA	250	283-2685-ND	.26	.22	.18
630mA	250	283-2688-ND	.26	.22	.18
800mA	250	283-2689-ND	.26	.22	.18
1A	250	283-2678-ND	.26	.22	.18
1.25A	250	283-2672-ND	.26	.22	.18
1.6A	250	283-2673-ND	.26	.22	.18
2A	250	283-2681-ND	.26	.22	.18
2.5A	250	283-2679-ND	.26	.22	.18
3.15A	250	283-2682-ND	.26	.22	.18
4A	250	283-2684-ND	.26	.22	.18
5A	250	283-2686-ND	.26	.22	.18
6.3A	250	283-2687-ND	.26	.22	.18
8A ◊	250	283-2690-ND	.95	.80	.66
10A ◊	250	283-2675-ND	.95	.80	.66
NEW! S506-R (GDC Series)‡ - Time-Delay, Low Breaking RoHS Compliant NEW!					
100mA	250	283-2693-ND	1.11	.94	.77
125mA	250	283-2694-ND	1.11	.94	.77
160mA	250	283-2695-ND	1.11	.94	.77
250mA	250	283-2698-ND	1.11	.94	.77
315mA	250	283-2701-ND	1.11	.94	.77
400mA	250	283-2702-ND	1.11	.94	.77
500mA	250	283-2704-ND	.80	.68	.56
630mA	250	283-2707-ND	.80	.68	.56

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 1	10	100
800mA	250	283-2708-ND	.80	.68	.56
1A	250	283-2696-ND	.80	.68	.56
1.25A	250	283-2691-ND	.80	.68	.56
1.6A	250	283-2692-ND	.80	.68	.56
2A	250	283-2699-ND	.80	.68	.56
2.5A	250	283-2697-ND	.80	.68	.56
3.15A	250	283-2700-ND	.80	.68	.56
4A	250	283-2703-ND	.80	.68	.56
5A	250	283-2705-ND	.80	.68	.56
6.3A	250	283-2706-ND	.80	.68	.56

Current Rating	Rated Voltage (AC)	Digi-Key Part No.	Price Each 5	100	250
GDA (S501)† - Fast- Acting, High Breaking					
160mA	250	283-2386-ND	1.35	1.02	.90
400mA	250	283-2388-ND	1.35	1.02	.90
630mA	250	283-2390-ND	1.12	.84	.75
1.6A	250	283-2394-ND	1.12	.84	.75
2.5A	250	283-2396-ND	1.12	.84	.75
4A	250	283-2398-ND	1.12	.84	.75
5A	250	283-2399-ND	1.12	.84	.75
6.3A	250	283-2400-ND	1.12	.84	..75
GDB (S500)§ - Fast-Acting, Low Breaking					
125mA	250	283-2406-ND	1.35	1.02	.90
160mA	250	283-2407-ND	.77	.58	.51
315mA	250	283-2410-ND	.77	.58	.51
800mA	250	283-2414-ND	.24	.18	.16
2.5A	250	283-2419-ND	.24	.18	.16
3.15A	250	283-2420-ND	.24	.18	.16
4A	250	283-2421-ND	.24	.18	.16
6.3A	250	283-2423-ND	.60	.45	.40
GDC (S506)‡ - Time-Delay, Low Breaking					
100mA	250	283-2263-ND	1.02	.77	.68
315mA	250	283-2268-ND	1.02	.77	.68
630mA	250	283-2271-ND	.74	.56	.50
1.25A	250	283-2274-ND	.74	.56	.50
1.6A	250	283-2275-ND	.74	.56	.50
2.5A	250	283-2277-ND	.74	.56	.50
4A	250	283-2279-ND	.74	.56	.50
6.3A	250	283-2281-ND	.74	.56	.50

† S501 is a European designation. GDA is a North America designation, identical product.

§ S500 is a European designation. GDA is a North America designation, identical product.

‡ S506 is a European designation. GDA is a North America designation, identical product.

◊ IEC Standard 127 Sheet II does not include ratings above 6.3 amps.

COOPER Bussmann

Multi-Meter Fast-Acting Ferrule Fuses

44/100 and 11 Amps

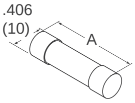

Specifications: • Designed for multi-meters only. • Intended to carry 100% of rated current indefinitely. • Not intended for branch circuit protection. **Construction Material:** • Melamine Tube and Nickel Plated Brass End Caps. **Voltage Rating:** 1000 Volts AC/DC. **Interrupting Rating:** DMM-B-44/100 - 10,000A, 1000VAC, unity power factor and 10,000A, 1000VDC with time constant of 2.2ms. Minimum interrupt 400% of rated current at rated voltage. DMM-B-11A - 20,000A, 1000VAC, power factor ≤ 2; 20,000A, 1000VDC, time constant ≥ 10ms. **Agency Approvals:** UL Recognized 1000VDC, File E19180.

Dim A	Digi-Key Part No.	Price Each 1	10	100	Cooper Bussmann Part No.
1.375" (±0.031) 34.9mm (±0.79)	283-2495-ND	17.89	14.71	11.53	DMM-B-44/100
1.50" (±0.031) 38.1mm (±0.79)	283-2496-ND	21.89	18.01	14.11	DMM-B-11A

NEW! HBH-I and HBH-M Fuseholders

For 1/4" x 1-1/4" (6.35mm x 31.75mm) and (5mm x 20mm) .205" x .787" Fuses

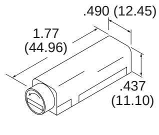

RoHS Compliant

Horizontal PCB Mount

Electrical Ratings: UL-16A @ 250V and CSA - 12A @ 250V

Agency Approvals: UL Recognized, CSA Certified, VDE, and SEMKO

Description	Digi-Key Part No.	Price Each 1	10	Cooper Bussmann Part No.
For 1/4 x 1-1/4 (6.35 x 31.75) Fuses	283-2709-ND	3.17	2.68	HBH-I-R
For .205 x .787 (5 x 20) Fuses	283-2710-ND	4.13	3.50	HBH-M-R

GMT Indicating Fuses

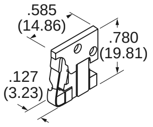

Rated Voltage: 125VAC, 60VDC. **Characteristics:** Fast Acting. **Time Current Characteristics:** Rated current values 1/4-15 amps carry 100% of rating for 10 minutes minimum; open at 150% of rating in 5 minutes maximum **Construction Material:** • Body: Thermoplastic, U.L. 94VO flammability rating • Terminals: Tin plated Beryllium Copper **Agency Approvals:** UL Recognized

Current Rating	Color Code	Digi-Key Part No.	Price Each 1	10	100
1/4	Violet	283-2051-ND	2.21	2.04	1.53
1/2	Red	283-2053-ND	2.21	2.04	1.53
3/4	Brown	283-2055-ND	2.21	2.04	1.53
1	Gray	283-2056-ND	2.21	2.04	1.53
1-1/3	White	283-2057-ND	2.21	2.04	1.53
1-1/2	White/Yellow	283-2058-ND	2.21	2.04	1.53
2	Orange	283-2059-ND	2.21	2.04	1.53
3	Blue	283-2060-ND	2.21	2.04	1.53
4	White/Brown	283-2062-ND	2.21	2.04	1.53
5	Green	283-2063-ND	2.21	2.04	1.53
7-1/2	Black/White	283-2064-ND	2.21	2.04	1.53
10	Red/White	283-2065-ND	2.21	2.04	1.53
15	Red/Blue	283-2067-ND	2.21	2.04	1.53

Fuseholders for GMT Type Indicating Fuse

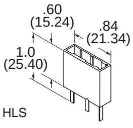

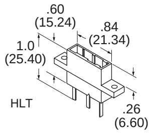

PC Mount Electrical Rating: 15A (60VDC) **Construction Material:** • Body: Thermoplastic, UL-94V0 flammability rating • Terminals: Tin-plated bifurcated copper **Agency Approval:** UL Recognized

Description	Digi-Key Part No.	Price Each 1	10	100
No Flange - HLS	283-2358-ND	2.32	2.13	1.74
With Flange - HLT	283-2359-ND	2.09	1.92	1.58

HTB Panel Mount Fuseholders

For 1/4" x 1-1/4" (6.35mm x 31.75mm) and (5mm x 20mm) .205" x .787" Fuses

Construction Material: • Terminals: Tin-plated brass • Molded Components: Thermoplastic; UL Component Recognized; 94V0; mounting nut, spacer-black polycarbonate. **Agency Approvals:** • UL Recognized: 20A (3/16" quick-connect 15A) @ 250V, CSA: 16A @ 250V; Screwdriver slot carrier only, VDE: 10A @ 250V and SEMKO: 10A @ 250V. **Common Dimensional Data:** • Length (Knob Type) — 1.69" (42.9mm) Plus In-Line Terminal (Screwdriver Slotted) 1.75" (44.5mm). Note: Plus In-Line Terminal

Fig. 1

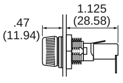

HTB-2: Low Profile
Rear Hex Nut

Fig. 2

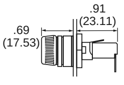

HTB-4: High Profile
Rear Hex Nut

Fig. 3

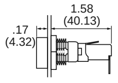

HTB-3: Low Profile
Rear Hex Nut

Fig. 4

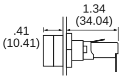

HTB-5: High Profile
Rear Hex Nut

TERMINAL OPTIONS

Solder 3/16" (4.76mm) Quick-Connect		1/4" (6.35mm) Quick-Connect	
A 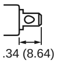 .34 (8.64) In-Line	B 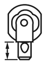 .33 (8.38) Right Angle	C 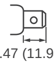 .47 (11.94) In-Line	D 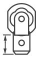 .45 (11.43) Right Angle

Common Mounting Hole — HTB 2, 3, 4, & 5

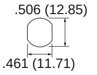

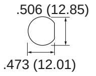

Fig.	Term. Opt.	Fuse Accept. Inch (mm)	Panel Thickness Inch (mm)	Digi-Key Part No.	Price Each 1	10
1	B	1/4x1-1/4 (6.35x31.75)	.30 (7.62)	283-2345-ND	2.80	2.59
2	A	1/4x1-1/4 (6.35x31.75)	.125 (3.18)	283-2348-ND	3.12	2.88
	B			283-2346-ND	3.28	3.03
	B			283-2347-ND†	3.28	3.03
	C			283-2349-ND	3.51	3.24
	D			283-2350-ND	3.51	3.24
3	B	.205x.787 (5x20)	.30 (7.62)	283-2353-ND	2.99	2.77
4	B	1/4x1-1/4 (6.35x31.75)	.125 (3.18)	283-2344-ND	2.80	2.59
NEW! RoHS Compliant NEW!						
1	B	1/4x1-1/4 (6.35x31.75)	.30 (7.62)	283-2711-ND	2.80	2.38
		.205x.787 (5x20)	.30 (7.62)	283-2712-ND	2.99	2.54
2	A	1/4x1-1/4 (6.35x31.75)	.125 (3.18)	283-2714-ND	3.12	2.64
	B			283-2715-ND	3.28	2.78
	B			283-2716-ND†	3.28	2.78
	C			283-2717-ND	3.51	2.97
	D			283-2718-ND	3.51	2.97
3	B	.205x.787 (5x20)	.30 (7.62)	283-2713-ND	2.99	2.54
4	B	1/4x1-1/4 (6.35x31.75)	.125 (3.18)	283-2719-ND	2.80	2.38

† Splash Proof Seal

HRK Universal In-Line Fuseholder

For 1/4" x 7/8" to 1-1/4" (6.35mm x 22.23mm x 31.75mm) Fuses

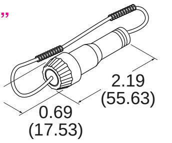

Specifications:

• Three springs furnished with fuseholder afford acceptance of 1/4" (6.35mm) fuses of different lengths • Wire leads are staked and soldered to the contacts of the fuseholder • Leads are 8" (20.3mm) long • Wire size - #14

Amps	Volts AC	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
15	32	283-2343-ND	3.51	3.24	2.43	HRK

HFB Waterproof In-Line Fuseholder

For 1/4" x 1-1/4" (6.35mm x 31.75mm) Fuses

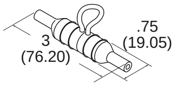

Construction Material:

• Body: Thermoplastic rubber (orange) • Contacts: Albaloy plated copper • Accepts 10AWG wire

Amps	Volts AC	Digi-Key Part No.	Price Each 1	10	100	Mfg. Part No.
30	32	283-2355-ND	7.54	6.85	6.17	HFB-10

Printed Circuit Board Fuseclips

Fig. 1

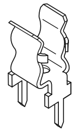

Fig. 2

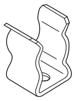

Fig. 3

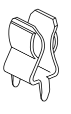

Fig. 4

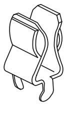

Fig. 5

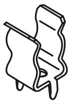

Fig.	Accepts Fuse (Dia.) Inch (mm)	End Stop	Lead Type	Clip Material†	Finish	Digi-Key Part No.	Price Each 1	10	100	Cooper Bussmann Part No.
NEW! RoHS Compliant NEW!										
1	.205 (5)	Yes	Straight	Spring Bronze	Bright Tin	283-2603-ND	.22	.19	.16	1A5018-10-R
3	1/4 (6.35)	Yes	Straight	Berylium Copper	Silver	283-2600-ND	.60	.51	.42	1A1907-05-R
3	1/4 (6.35)	Yes	Straight	Cartridge Brass	Bright Tin	283-2601-ND	.16	.14	.12	1A1907-06-R
4	1/4 (6.35)	Yes	Angled-In	Cartridge Brass	Bright Tin	283-2598-ND	.30	.26	.21	1A1119-10-R
5	1/4 (6.35)	No	Angled-In	Cartridge Brass	Bright Tin	283-2599-ND	.30	.26	.21	1A1120-09-R
5	1/4 (6.35)	No	Straight	Cartridge Brass	Bright Tin	283-2602-ND	.22	.19	.16	1A3398-07-R

Fig.	Accepts Fuse (Dia.) Inch (mm)	End Stop	Lead Type	Clip Material†	Finish	Digi-Key Part No.	Price Each 10	100	250	Cooper Bussmann Part No.
2	1/4 (6.35)	No	None	Spring Bronze	Bright Tin	283-2337-ND	.21	.16	.14	5681-15
3	1/4 (6.35)	Yes	Straight	Beryllium Copper	Silver	283-2342-ND	.56	.42	.37	1A1907-05
4	1/4 (6.35)	Yes	Angled-In	Spring Bronze	Bright Tin	283-2341-ND	.28	.21	.19	1A1119-10
5	1/4 (6.35)	No	Angled-In	Spring Bronze	Bright Tin	283-2340-ND	.28	.21	.19	1A1120-09

† Beryllium copper recommended for currents higher than 15 amps (1/4" or 6.35mm clips).

Type SMP, SMT Power Cross Protection Fuse

SMP Fuses guard protected circuitry against sustained overload or short circuit conditions. Such sustained overloads may be generated by accidental contact between utility cables and phone lines (power line cross).

Specifications:
• **Voltage Rating:** 600V • **Operating Temperature:** -55°C ~ 125°C• **Construction Material:** Ceramic Body/Tin plated Brass Caps, Lead Free Solder • **Packaging:** 13 inch diameter reel, 16mm wide tape, 8mm pitch, per EIA standard 481

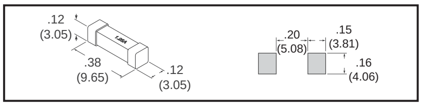

Electrical Characteristics		
	Blow Time	
Test Current	Minimum	Maximum
100% / 110% (2A)	4 hrs	N/A
200%	3 sec/N/A (2A)	60 sec
500%	100 msec	1.5 sec
1000%	30 msec	300 msec

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 2,000	Bel Fuse Part No.
500mA	507-1038-1-ND	1.69	1.50	1.07	500.00/M	SMP 500
1.25A	507-1039-1-ND	1.69	1.50	1.07	500.00/M	SMP 1.25
2.0A	507-1040-1-ND	1.69	1.50	1.07	500.00/M	SMP 2

* For Tape and Reel part number, change 1-ND to 2-ND

Type RJS Telecom - Power Cross Protection and Ballast Protection

RJS fuse guard protected circuitry against sustained overload or short circuit conditions. Such sustained overloads may be generated by accidental contact between utility cables and phone lines (power line cross).

Electrical Characteristics		
	Blow Time	
Test Current	Minimum	Maximum
100%	4 hrs	N/A
135%	N/A	1 hr
200%	3 sec	20 sec
500%	100 msec	1.5 sec
1000%	30 msec	300 msec

A
Std Lead 0.4 (10.0mm)
Short Lead 0.11(2.8mm)

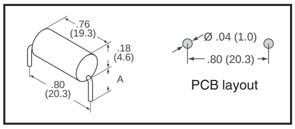

Specifications: • **Voltage Rating:** 600V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Body: Glass, Lead Wire: Tin-lead plated Copper, Diameter 0.032 inch • **Packaging:** Bulk, 500 pieces per box (Standard lead), 2,000 pieces per box (Short Lead)

Amp Rating	Lead Length	Digi-Key Part No.	Price Each 1	10	100	Bel Fuse Part No.
1.25A	Standard	507-1000-ND	.50	.45	.32	RJS 1.25
1.25A	Short	507-1001-ND	.50	.45	.32	RJS 1.25SHORT
2.00A	Standard	507-1002-ND	.50	.45	.32	RJS 2
2.00A	Short	507-1003-ND	.50	.45	.32	RJS 2SHORT

Type SSQ, 6125 (2410) Size Square Ceramic SMT Fast Acting Fuse

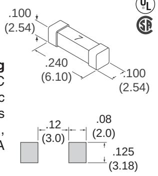

Specifications:
• **Voltage Rating:** 125V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Ceramic Body/Palladium Plated Brass Caps • **Packaging:** 13 inch diameter reel, 12mm wide tape, 4mm pitch, per EIA standard 481

Electrical Characteristics: • Test Current 100%, Blow Time 4 Hrs Min; Test Current 200% Blow Time 5 seconds Maximum

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Bel Fuse Part No.
250mA	507-1041-1-ND	.76	.68	.48	224.00	SSQ 250
375mA	507-1042-1-ND	.76	.68	.48	224.00	SSQ 375
500mA	507-1043-1-ND	.76	.68	.48	224.00	SSQ 500
750mA	507-1044-1-ND	.76	.68	.48	224.00	SSQ 750
1A	507-1045-1-ND	.76	.68	.48	224.00	SSQ 1
1.25A	507-1046-1-ND	.76	.68	.48	224.00	SSQ 1.25
1.5A	507-1047-1-ND	.76	.68	.48	224.00	SSQ 1.5
2A	507-1048-1-ND	.76	.68	.48	224.00	SSQ 2
2.5A	507-1049-1-ND	.76	.68	.48	224.00	SSQ 2.5
3A	507-1050-1-ND	.76	.68	.48	224.00	SSQ 3
3.5A	507-1051-1-ND	.76	.68	.48	224.00	SSQ 3.5
4A	507-1052-1-ND	.76	.68	.48	224.00	SSQ 4
5A	507-1053-1-ND	.76	.68	.48	224.00	SSQ 5
6.3A	507-1054-1-ND	.76	.68	.48	224.00	SSQ 6.3
7A	507-1055-1-ND	.76	.68	.48	224.00	SSQ 7
8A	507-1056-1-ND	.76	.68	.48	224.00	SSQ 8
10A	507-1057-1-ND	.76	.68	.48	224.00	SSQ 10
12A	507-1058-1-ND	.76	.68	.48	224.00	SSQ 12
15A	507-1059-1-ND	.76	.68	.48	224.00	SSQ 15

* For Tape and Reel part number, change 1-ND to 2-ND

NEW! Type 5SF, 5ST (5x20mm) Fuse, Low Breaking Capacity

IEC-127-2

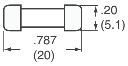

Operating Temperature: -55 ~ 125°C

Materials: • Glass body/Nickel plated brass caps

Amp Rating	Digi-Key Part No.	Price Each 1	10	100	Bel Fuse Part No.
5SF Series - Fast Acting Fuse					
80mA	507-1218-ND	.43	.39	.28	5SF 80-R
100mA	507-1219-ND	.43	.39	.28	5SF 100-R
125mA	507-1220-ND	.43	.39	.28	5SF 125-R
200mA	507-1221-ND	.43	.39	.28	5SF 200-R
250mA	507-1222-ND	.43	.39	.28	5SF 250-R
400mA	507-1223-ND	.43	.39	.28	5SF 400-R
500mA	507-1224-ND	.43	.39	.28	5SF 500-R
1A	507-1225-ND	.43	.39	.28	5SF 1-R
1.25A	507-1226-ND	.43	.39	.28	5SF 1.25-R
1.6A	507-1227-ND	.43	.39	.28	5SF 1.6-R
2A	507-1228-ND	.43	.39	.28	5SF 2-R
2.5A	507-1229-ND	.43	.39	.28	5SF 2.5-R
3.15A	507-1230-ND	.43	.39	.28	5SF 3.15-R
4A	507-1231-ND	.43	.39	.28	5SF 4-R
5A	507-1232-ND	.43	.39	.28	5SF 5-R
6.3A	507-1233-ND	.43	.39	.28	5SF 6.3-R
8A	507-1234-ND	.43	.39	.28	5SF 8-R
10A	507-1235-ND	.43	.39	.28	5SF 10-R
5ST Series - Time Lag Fuse					
63mA	507-1236-ND	.43	.39	.28	5ST 63-R
80mA	507-1237-ND	.43	.39	.28	5ST 80-R
100mA	507-1238-ND	.43	.39	.28	5ST 100-R
125mA	507-1239-ND	.43	.39	.28	5ST 125-R
200mA	507-1240-ND	.43	.39	.28	5ST 200-R
250mA	507-1241-ND	.43	.39	.28	5ST 250-R
400mA	507-1242-ND	.43	.39	.28	5ST 400-R
500mA	507-1243-ND	.43	.39	.28	5ST 500-R
630mA	507-1244-ND	.43	.39	.28	5ST 630-R
800mA	507-1245-ND	.43	.39	.28	5ST 800-R
1A	507-1246-ND	.43	.39	.28	5ST 1-R
1.25A	507-1247-ND	.43	.39	.28	5ST 1.25-R
1.6A	507-1248-ND	.43	.39	.28	5ST 1.6-R
2A	507-1249-ND	.43	.39	.28	5ST 2-R
2.5A	507-1250-ND	.43	.39	.28	5ST 2.5-R
3.15A	507-1251-ND	.43	.39	.28	5ST 3.15-R
4A	507-1252-ND	.43	.39	.28	5ST 4-R
5A	507-1253-ND	.43	.39	.28	5ST 5-R
6.3A	507-1254-ND	.43	.39	.28	5ST 6.3-R
8A	507-1255-ND	.43	.39	.28	5ST 8-R
10A	507-1256-ND	.43	.39	.28	5ST 10-R

NEW! Type 5HF, 5HT (5x20mm) Fuse, High Breaking Capacity

IEC-127-2

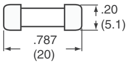

Operating Temperature: -55 ~ 125°C

Materials: • Ceramic body/Nickel plated brass caps

Amp Rating	Digi-Key Part No.	Price Each 1	10	100	Bel Fuse Part No.
5HF Series - Fast Acting Fuse					
250mA	507-1195-ND	.58	.52	.37	5HF 250-R
500mA	507-1196-ND	.58	.52	.37	5HF 500-R
800mA	507-1197-ND	.58	.52	.37	5HF 800-R
1A	507-1198-ND	.58	.52	.37	5HF 1-R
1.6A	507-1199-ND	.58	.52	.37	5HF 1.6-R
2A	507-1200-ND	.58	.52	.37	5HF 2-R
3.15A	507-1201-ND	.58	.52	.37	5HF 3.15-R
4A	507-1202-ND	.58	.52	.37	5HF 4-R
5A	507-1203-ND	.58	.52	.37	5HF 5-R
6.3A	507-1204-ND	.58	.52	.37	5HF 6.3-R
8A	507-1205-ND	.58	.52	.37	5HF 8-R
10A	507-1206-ND	.58	.52	.37	5HF 10-R
5HT Series - Time Lag Fuse					
1A	507-1207-ND	.58	.52	.37	5HT 1-R
1.25A	507-1208-ND	.58	.52	.37	5HT 1.25-R
1.6A	507-1209-ND	.58	.52	.37	5HT 1.6-R
2A	507-1210-ND	.58	.52	.37	5HT 2-R
2.5A	507-1211-ND	.58	.52	.37	5HT 2.5-R
3.15A	507-1212-ND	.58	.52	.37	5HT 3.15-R
4A	507-1213-ND	.58	.52	.37	5HT 4-R
5A	507-1214-ND	.58	.52	.37	5HT 5-R
6.3A	507-1215-ND	.58	.52	.37	5HT 6.3-R
8A	507-1216-ND	.58	.52	.37	5HT 8-R
10A	507-1217-ND	.58	.52	.37	5HT 10-R

NEW! Type 5MF, 5MT and 5TT (5x20mm) Fuses

UL/CSA STD 248-I4

Operating Temperature: -55 ~ 125°C

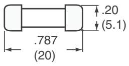

Materials:
5MF, 5MT: • Glass Body/Nickel Plated Brass Caps.
5TT: • 5A and less, Glass Body/Nickel Plated Brass Caps, 6A and above, Ceramic body/Nickel Plated Brass Caps

Amp Rating	Digi-Key Part No.	Price Each 1	10	100	Bel Fuse Part No.
5MF Series - Fast Acting Fuse					
250mA	507-1257-ND	.36	.32	.23	5MF 250-R
300mA	507-1258-ND	.36	.32	.23	5MF 300-R
500mA	507-1259-ND	.36	.32	.23	5MF 500-R
700mA	507-1260-ND	.36	.32	.23	5MF 700-R
1A	507-1261-ND	.36	.32	.23	5MF 1-R
1.25A	507-1262-ND	.36	.32	.23	5MF 1.25-R
1.5A	507-1263-ND	.36	.32	.23	5MF 1.5-R
2A	507-1264-ND	.36	.32	.23	5MF 2-R
2.5A	507-1265-ND	.36	.32	.23	5MF 2.5-R
3A	507-1266-ND	.36	.32	.23	5MF 3-R
3.5A	507-1267-ND	.36	.32	.23	5MF 3.5-R
4A	507-1268-ND	.36	.32	.23	5MF 4-R
5A	507-1269-ND	.36	.32	.23	5MF 5-R
6A	507-1270-ND	.36	.32	.23	5MF 6-R
7A	507-1271-ND	.36	.32	.23	5MF 7-R
8A	507-1272-ND	.36	.32	.23	5MF 8-R
5MT Series - Medium Acting Fuse					
250mA	507-1273-ND	.46	.41	.29	5MT 250-R
375mA	507-1274-ND	.46	.41	.29	5MT 375-R
500mA	507-1275-ND	.46	.41	.29	5MT 500-R
750mA	507-1276-ND	.46	.41	.29	5MT 750-R
1A	507-1277-ND	.46	.41	.29	5MT 1-R
2A	507-1278-ND	.46	.41	.29	5MT 2-R
2.5A	507-1279-ND	.46	.41	.29	5MT 2.5-R
3A	507-1280-ND	.46	.41	.29	5MT 3-R
3.5A	507-1281-ND	.46	.41	.29	5MT 3.5-R
4A	507-1282-ND	.46	.41	.29	5MT 4-R
5A	507-1283-ND	.46	.41	.29	5MT 5-R
7A	507-1284-ND	.46	.41	.29	5MT 7-R
5TT Series - Time Lag Fuse					
125mA	507-1285-ND	.56	.50	.36	5TT 125-R
250mA	507-1286-ND	.56	.50	.36	5TT 250-R
300mA	507-1287-ND	.56	.50	.36	5TT 300-R
400mA	507-1288-ND	.56	.50	.36	5TT 400-R
500mA	507-1289-ND	.56	.50	.36	5TT 500-R
750mA	507-1290-ND	.56	.50	.36	5TT 750-R
1A	507-1291-ND	.56	.50	.36	5TT 1-R
1.25A	507-1292-ND	.56	.50	.36	5TT 1.25-R
1.5A	507-1293-ND	.56	.50	.36	5TT 1.5-R
1.6A	507-1294-ND	.56	.50	.36	5TT 1.6-R
2A	507-1295-ND	.56	.50	.36	5TT 2-R
2.5A	507-1296-ND	.56	.50	.36	5TT 2.5-R
3A	507-1297-ND	.56	.50	.36	5TT 3-R
4A	507-1298-ND	.56	.50	.36	5TT 4-R
5A	507-1299-ND	.56	.50	.36	5TT 5-R
6A	507-1300-ND	.56	.50	.36	5TT 6-R
7A	507-1301-ND	.56	.50	.36	5TT 7-R
8A	507-1302-ND	.56	.50	.36	5TT 8-R
10A	507-1303-ND	.56	.50	.36	5TT 10-R

Type SST, 6125 (2410) Size Square Ceramic SMT Slow Blow Fuse

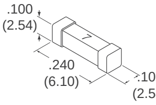

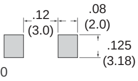

Electrical Characteristics

Test Current	Blow Time	
	Minimum	Maximum
100%	4 hrs	N/A
200%	1 sec	60 sec
300%	0.2 sec	3 sec
800%	0.02 sec	0.1 sec

Specifications: • **Voltage Rating:** 125V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Ceramic Body/Palladium Plated Brass Caps • **Packaging:** 13 inch diameter reel, 12mm wide tape, 4mm pitch, per EIA standard 481 • UL/CSA STD 248-14

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R* Pricing 1,000	Bel Fuse Part No.
375mA	507-1060-1-ND	1.17	1.05	.74	348.00	SST 375
500mA	507-1061-1-ND	1.24	1.10	.78	366.00	SST 500
625mA	507-1062-1-ND	1.17	1.05	.74	348.00	SST 625
750mA	507-1063-1-ND	1.17	1.05	.74	348.00	SST 750
1A	507-1064-1-ND	1.17	1.05	.74	348.00	SST 1
1.5A	507-1065-1-ND	1.17	1.05	.74	348.00	SST 1.5
2A	507-1066-1-ND	1.17	1.05	.74	348.00	SST 2
2.5A	507-1067-1-ND	1.17	1.05	.74	348.00	SST 2.5
3A	507-1068-1-ND	1.17	1.05	.74	348.00	SST 3
3.5A	507-1069-1-ND	1.17	1.05	.74	348.00	SST 3.5
4A	507-1070-1-ND	1.17	1.05	.74	348.00	SST 4
5A	507-1071-1-ND	1.17	1.05	.74	348.00	SST 5
7A	507-1072-1-ND	1.17	1.05	.74	348.00	SST 7

* For Tape and Reel part number, change 1-ND to 2-ND

Type C2Q, 0603 Size SMT Very Fast-Acting Chip Fuse

Specifications: • **Voltage Rating:** 32V • **Operating Temperature:** -55 ~ 125°C • **Construction Material:** Ceramic Substrate/ Printed Element, Tin Plated Terminations • **Packaging:** 7 inch diameter reel, 8mm wide tape, 4mm pitch, per EIA standard 481 (equivalent IEC-286 part 3) • **Part Markings:** None • UL/CSA STD 248-14

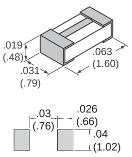

Infrared solder layout for PCB. See data-sheet for wave solder.

Electrical Characteristics

Test Current	Blow Time	
	Minimum	Maximum
100%	4 hrs	N/A
200%	N/A	5 sec
300%	N/A	0.2 sec

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 5,000	Bel Fuse Part No.
250mA	507-1086-1-ND	.62	.56	.40	161.00/M	C2Q 250
300mA	507-1087-1-ND	.62	.56	.40	161.00/M	C2Q 250
375mA	507-1088-1-ND	.62	.56	.40	161.00/M	C2Q 375
500mA	507-1089-1-ND	.62	.56	.40	161.00/M	C2Q 500
750mA	507-1090-1-ND	.62	.56	.40	161.00/M	C2Q 750
1A	507-1091-1-ND	.62	.56	.40	161.00/M	C2Q 1
1.25A	507-1092-1-ND	.62	.56	.40	161.00/M	C2Q 1.25
1.5A	507-1093-1-ND	.62	.56	.40	161.00/M	C2Q 1.5
2A	507-1094-1-ND	.62	.56	.40	161.00/M	C2Q 2
2.5A	507-1095-1-ND	.62	.56	.40	161.00/M	C2Q 2.5
3A	507-1096-1-ND	.62	.56	.40	161.00/M	C2Q 3
3.5A	507-1097-1-ND	.62	.56	.40	161.00/M	C2Q 3.5
4A	507-1098-1-ND	.62	.56	.40	161.00/M	C2Q 4
5A	507-1099-1-ND	.62	.56	.40	161.00/M	C2Q 5

* For Tape and Reel part number, change 1-ND to 2-ND

Type C1Q and C1S, 1206 Size SMT Very Fast-Acting/ Slow Blow Chip Fuse

C1S C1Q C1Q C1Q and C1S

Specifications: • **Voltage Rating:** Type C1Q: 125V; Type C1S: 63V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Ceramic Sub strate/Printed Element, Tin Plated Terminations • **Packaging:** 7 inch diameter reel, 8mm wide tape, 4mm pitch, per EIA standard 481 (equivalent IEC-286 part 3) • **Part Markings:** None • **Type C1Q:** UL/CSA STD 248-14; **Type C1S:** UL STD 248-14

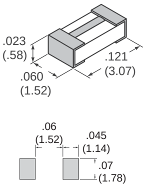

Infrared solder layout for PCB. See data sheet for wave solder.

Electrical Characteristics

Test Current	Blow Time - C1Q		Blow Time - C1S	
	Min.	Max.	Min.	Max.
100%	4 hrs	N/A	4 hrs	N/A
200%	N/A	5 sec	1 sec	120 sec
300%	N/A	0.2 sec	0.1 sec	3 sec

Amp Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 5,000	Bel Fuse Part No.
C1Q Type – Fast Acting						
250mA	507-1073-1-ND	.62	.56	.40	161.00/M	C1Q 250
375mA	507-1074-1-ND	.62	.56	.40	161.00/M	C1Q 375
500mA	507-1075-1-ND	.62	.56	.40	161.00/M	C1Q 500
750mA	507-1076-1-ND	.62	.56	.40	161.00/M	C1Q 750
1A	507-1077-1-ND	.62	.56	.40	161.00/M	C1Q 1
1.25A	507-1078-1-ND	.62	.56	.40	161.00/M	C1Q 1.25
1.5A	507-1079-1-ND	.62	.56	.40	161.00/M	C1Q 1.5
2A	507-1080-1-ND	.62	.56	.40	161.00/M	C1Q 2
2.5A	507-1081-1-ND	.62	.56	.40	161.00/M	C1Q 2.5
3A	507-1082-1-ND	.62	.56	.40	161.00/M	C1Q 3
3.5A	507-1083-1-ND	.62	.56	.40	161.00/M	C1Q 3.5
4A	507-1084-1-ND	.62	.56	.40	161.00/M	C1Q 4
5A	507-1085-1-ND	.62	.56	.40	161.00/M	C1Q 5
C1S Type – Slow Blow						
750mA	507-1185-1-ND	.62	.56	.40	161.00/M	C1S 750
1A	507-1186-1-ND	.62	.56	.40	161.00/M	C1S 1
1.25A	507-1187-1-ND	.62	.56	.40	161.00/M	C1S 1.25
1.5A	507-1188-1-ND	.62	.56	.40	161.00/M	C1S 1.5
2A	507-1189-1-ND	.62	.56	.40	161.00/M	C1S 2
2.5A	507-1190-1-ND	.62	.56	.40	161.00/M	C1S 2.5
3A	507-1191-1-ND	.62	.56	.40	161.00/M	C1S 3
3.5A	507-1192-1-ND	.62	.56	.40	161.00/M	C1S 3.5
4A	507-1193-1-ND	.62	.56	.40	161.00/M	C1S 4
5A	507-1194-1-ND	.62	.56	.40	161.00/M	C1S 5

* For Tape and Reel part number, change 1-ND to 2-ND

Type MRT Time Lag Radial Lead Micro Fuse Series, IEC 127-3, SS4

Bulk

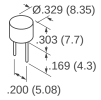

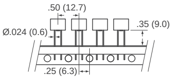

Tape and Ammo

Electrical Characteristics

Rated Current	Testing Current	Blow Time	
		Minimum	Maximum
80mA ~ 6.3A inclusive	150%	1 hr	N/A
	210%	N/A	2 min
	275%	400 msec	10 sec
	400%	150 msec	3 sec
	1000%	20 msec	150 msec

Specifications: • **Voltage Rating:** 250V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Base and Cap: Black thermoplastic, UL94-VO Pins: Tin-plated copper alloy • **Packaging:** Bulk, 250 pieces per bag, 1,000 pieces per box (Short Leads), Tape and Ammo pack: 1,000 pieces per box, per IEC-286-2 (Long Leads)

MRT Time Lag – Bulk

Amp Rating	Digi-Key Part No. Short Lead	Bulk Price Each 1	10	100	Bel Fuse Part No.
80mA	507-1100-ND	.75	.67	.48	MRT 80
100mA	507-1101-ND	.75	.67	.48	MRT 100
125mA	507-1102-ND	.75	.67	.48	MRT 125
160mA	507-1103-ND	.75	.67	.48	MRT 160
200mA	507-1104-ND	.75	.67	.48	MRT 200
250mA	507-1105-ND	.75	.67	.48	MRT 250
315mA	507-1106-ND	.75	.67	.48	MRT 315
400mA	507-1107-ND	.75	.67	.48	MRT 400
500mA	507-1108-ND	.75	.67	.48	MRT 500
630mA	507-1109-ND	.75	.67	.48	MRT 630
800mA	507-1110-ND	.75	.67	.48	MRT 800
1A	507-1111-ND	.75	.67	.48	MRT 1
1.25A	507-1112-ND	.75	.67	.48	MRT 1.25
1.6A	507-1113-ND	.75	.67	.48	MRT 1.6
2A	507-1114-ND	.75	.67	.48	MRT 2
2.5A	507-1115-ND	.75	.67	.48	MRT 2.5
3.15A	507-1116-ND	.75	.67	.48	MRT 3.15
4A	507-1117-ND	.75	.67	.48	MRT 4
5A	507-1118-ND	.75	.67	.48	MRT 5
6.3A	507-1119-ND	.75	.67	.48	MRT 6.3

MRT Time Lag – Tape and Ammo

Amp Rating	Digi-Key Part No. Long Lead	Tape & Ammo Pricing 1,000	Bel Fuse Part No.
80mA	507-1100-3-ND	222.00	MRT 80AMMO
100mA	507-1101-3-ND	222.00	MRT 100AMMO
125mA	507-1102-3-ND	222.00	MRT 125AMMO
160mA	507-1103-3-ND	222.00	MRT 160AMMO
200mA	507-1104-3-ND	222.00	MRT 200AMMO
250mA	507-1105-3-ND	222.00	MRT 250AMMO
315mA	507-1106-3-ND	222.00	MRT 315AMMO
400mA	507-1107-3-ND	222.00	MRT 400AMMO
500mA	507-1108-3-ND	222.00	MRT 500AMMO
630mA	507-1109-3-ND	222.00	MRT 630AMMO
800mA	507-1110-3-ND	222.00	MRT 800AMMO
1A	507-1111-3-ND	222.00	MRT 1AMMO
1.25A	507-1112-3-ND	222.00	MRT 1.25AMMO
1.6A	507-1113-3-ND	222.00	MRT 1.6AMMO
2A	507-1114-3-ND	222.00	MRT 2AMMO
2.5A	507-1115-3-ND	222.00	MRT 2.5AMMO
3.15A	507-1116-3-ND	222.00	MRT 3.15AMMO
4A	507-1117-3-ND	222.00	MRT 4AMMO
5A	507-1118-3-ND	222.00	MRT 5AMMO
6.3A	507-1119-3-ND	222.00	MRT 6.3AMMO

Type RST Time Lag Radial Lead Micro Fuse Series, IEC 127-3, SS4

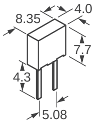

Specifications: • **Voltage Rating:** 250V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Base and Cover: Black thermoplastic, UL 94-V0 Pins: Tin plated copper alloy • **Packaging:** Bulk, 1,000 pieces per box

Electrical Characteristics

Rated Current	Test Current							
	150%	210%	275%		400%		1000%	
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
80mA ~ 6.3A inclusive	1 hour	2 minutes	400 ms.	10 sec.	150 ms.	3 sec.	20 ms.	150 ms.

Amp Rating	Digi-Key Part No.	Bulk Price Each 1	10	100	Bel Fuse Part No.
100mA	507-1166-ND	.22	.21	.17	RST 100
125mA	507-1167-ND	.22	.21	.17	RST 125
160mA	507-1168-ND	.22	.21	.17	RST 160
200mA	507-1169-ND	.22	.21	.17	RST 200
250mA	507-1170-ND	.22	.21	.17	RST 250
315mA	507-1171-ND	.22	.21	.17	RST 315
400mA	507-1172-ND	.22	.21	.17	RST 400
500mA	507-1173-ND	.22	.21	.17	RST 50
630mA	507-1174-ND	.22	.21	.17	RST 630
800mA	507-1175-ND	.22	.21	.17	RST 800
1A	507-1176-ND	.22	.21	.17	RST 1
1.25A	507-1177-ND	.22	.21	.17	RST 1.25
1.6A	507-1178-ND	.22	.21	.17	RST 1.6
2A	507-1179-ND	.22	.21	.17	RST 2
2.5A	507-1180-ND	.22	.21	.17	RST 2.5
3.15A	507-1181-ND	.22	.21	.17	RST 3.15
4A	507-1182-ND	.22	.21	.17	RST 4
5A	507-1183-ND	.22	.21	.17	RST 5
6.3A	507-1184-ND	.22	.21	.17	RST 6.3

Type MQ and MS Micro Fuses

Electrical Characteristics

Test Current	Blow Time	
	Minimum	Maximum
100%	4 hrs	N/A
200%	N/A	30 sec.

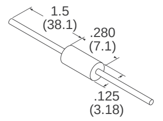

Specifications: • **Voltage Rating:** 125V • **Operating Temperature:** -55°C ~ 125°C • **Construction Material:** Body: Molded with UL Recognized epoxy component plastic UL94-V0. Lead Wire: Tin-Lead plated Copper • **Packaging:** Bulk: 250 pieces per bag/1,000 pieces per box; Tape and Reel: 2,500 pieces per reel (5mm pitch and 52.4mm inside Tape spacing (per EIA 296-E and IEC 286-1) • UL/CSA STD 248-14

MQ Fast Acting - Bulk

Amp Rating	Digi-Key Part No.	Bulk Price Each 1	10	100	Bel Fuse Part No.
100mA	507-1004-ND	.76	.68	.49	MQ 100
125mA	507-1005-ND	.76	.68	.49	MQ 125
200mA	507-1007-ND	.76	.68	.49	MQ 200
250mA	507-1008-ND	.76	.68	.49	MQ 250
375mA	507-1010-ND	.76	.68	.49	MQ 375
500mA	507-1011-ND	.76	.68	.49	MQ 500
750mA	507-1012-ND	.76	.68	.49	MQ 750
1A	507-1013-ND	.76	.68	.49	MQ 1
1.5A	507-1014-ND	.76	.68	.49	MQ 1.5
2A	507-1015-ND	.76	.68	.49	MQ 2
2.5A	507-1016-ND	.76	.68	.49	MQ 2.5
3A	507-1017-ND	.76	.68	.49	MQ 3
4A	507-1018-ND	.76	.68	.49	MQ 4
5A	507-1019-ND	.76	.68	.49	MQ 5
7A	507-1020-ND	.76	.68	.49	MQ 7
10A	507-1021-ND	.76	.68	.49	MQ 10
12A	507-1022-ND	.76	.68	.49	MQ 12
15A	507-1023-ND	.76	.68	.49	MQ 15

MS Slow Blow - Bulk

Amp Rating	Digi-Key Part No. Short Lead	Bulk Price Each 1	10	100	Bel Fuse Part No.
250mA	507-1024-ND	.99	.89	.63	MS 250
375mA	507-1026-ND	.99	.89	.63	MS 375
500mA	507-1027-ND	.99	.89	.63	MS 500
750mA	507-1028-ND	.99	.89	.63	MS 750
1A	507-1029-ND	.99	.89	.63	MS 1
1.25A	507-1030-ND	.99	.89	.63	MS 1.25
1.5A	507-1031-ND	.99	.89	.63	MS 1.5
2A	507-1032-ND	.99	.89	.63	MS 2
2.5A	507-1033-ND	.99	.89	.63	MS 2.5
3A	507-1034-ND	.99	.89	.63	MS 3
4A	507-1035-ND	.99	.89	.63	MS 4
5A	507-1036-ND	.99	.89	.63	MS 5
7A	507-1037-ND	.99	.89	.63	MS 7

WICKMANN Polyfuse® Resettable Fuses (0805)

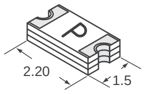

Standard: • UL 1434 1st Edition • CSA C22.2 No. 0 CSA TIL No. CA-3A **Approvals:** cULus Recognized: TUV • cULus Recognition **Features:** • Low voltage overcurrent protection • Compliance with UL 1950 standard • For high density PCB applications, including cellular phones, computers and peripherals **Materials:** • Terminals: Solder-plated copper • Solder Material: **TS**: 63/37 SnPb; **TF**: Sn (tin) **Operating/ Storage Temperature:** -40°C ~ 85°C **Electrical Definitions:** • **I_{hold}:** Hold current: maximum current device will pass without tripping in 20°C still air • **I_{trip}:** Trip current: Minimum current at which the device will trip in 20°C still air • **I_{max}:** Maximum fault current device can withstand without damage at rated voltage • **R_{min}:** Minimum resistance of device in initial (un-soldered) state • **R_{Imax}:** Maximum resistance of device at 20°C measured one hour after tripping

Caution: *Operation beyond the specified rating may result in damage and possible arcing and flame.*

I_{hold} (A)	I_{trip} (A)	Voltage Rating (V)	$I_{max.}$ (A)	Max. time to Trip (sec. @ A)		Resistance (Ω) $R_{min.}$	Resistance (Ω) $R_{Imax.}$	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Wickmann Part No.
0.20	0.50	9	40	0.02	8.00	0.650	3.500	WK1070CT-ND	1.15	1.07	.99	WK1070TR-ND	4,000	418.00/M	SMD0805P020TSA
0.50	1.00	6	40	0.10	8.00	0.150	0.850	WK1072CT-ND	1.23	1.15	1.06	WK1072TR-ND	3,000	447.00/M	SMD0805P050TSA
0.10	0.30	15	40	1.50	0.50	1.000	6.000	WK6236CT-ND•	1.03	.96	.88	WK6236TR-ND•	4,000	426.00/M	SMD0805P010TFA
0.20	0.50	9	40	0.02	8.00	0.650	3.500	WK6237CT-ND•	1.03	.96	.89	WK6237TR-ND•	4,000	426.00/M	SMD0805P020TFA
0.35	0.75	6	40	0.10	8.00	0.250	1.200	WK6238CT-ND•	1.03	.96	.89	WK6238TR-ND•	4,000	426.00/M	SMD0805P035TFA
0.50	1.00	6	40	0.10	8.00	0.150	0.850	WK6239CT-ND•	1.10	1.02	.94	WK6239TR-ND•	3,000	455.00/M	SMD0805P050TFA

• RoHS Compliant

TIP Telecom Duty Fuses
(Telecom Interface Protector)

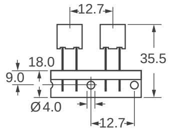

Ammopack

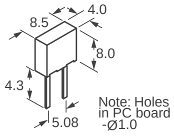

Short Leads

Electrical Characteristics:

Rated Current	Pre-arcing Rating 100%	300%
350mA ~ 1.50A	2 hr. minimum	300ms...5s

Approvals: cULus Recognized: File No. E67006. Complies to EIA-IS-968; Telcordia GR-1089

Features: • For UL60950/1950 3rd Edition applications • Highly defined cutoff times • Flame resistant encapsulated casing • Low internal resistance • Irreversible physical separation • Stable characteristics under varying temperatures

Maximum Fault Currents: ≤50A at 125VAC; ≤35A at 125VDC

Material: • Base and Cap: Brown thermoplastic (polyamide PA 6.6), UL 94-V0; • Round Pins: Copper alloy, tin-plated

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	Tape & Ammo-Pk. Size	Pricing*
		TIP 385 Series				
.350	125	WK4560BK-ND	.57	.53	1,400	234.90/M
1.00	125	WK4563BK-ND	.57	.53	1,400	234.90/M
1.25	125	WK4564BK-ND	.57	.53	1,400	234.90/M
1.50	125	WK4565BK-ND	.57	.53	1,400	234.90/M

* For Tape and Ammo Pack number, change BK-ND to TB-ND.

1206 Surface Mount Fuses FCD12 Series

Standard: • UL 248-14

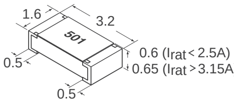

Materials: • Housing: Ceramic substrate, Glass encapsulated • Element: Metal Film • Terminals: Tinned, metallized

Solderability: 235°C, 2 Seconds (At least 95% of the terminal surface must be covered by new solder)

Recommended Solder Glue: Grace Amicon 125F

Marking: Code for Current Rating

Electrical Characteristics:

Rated Current	Pre-arcing Rating 250%
500mA ~ 5.00A	<5s

Amp Rating (A)	Voltage Rating	Mark.	Digi-Key Part No.	Cut Tape Price Each 1	10	T & R Pricing* 5,000
			FCD12 Series			
.500	50	501	WK6213CT-ND	.56	.53	—
.630	50	631	WK6214CT-ND	.56	.53	188.00/M
.800	50	801	WK6215CT-ND	.56	.53	—
1.00	50	102	WK6216CT-ND	.63	.59	—
1.25	50	132	WK6217CT-ND	.56	.53	—
1.60	50	162	WK6218CT-ND	.56	.53	188.00/M
2.00	50	202	WK6219CT-ND	.56	.53	—
2.50	50	252	WK6220CT-ND	.56	.53	188.00/M
3.15	32	UD	WK6221CT-ND	.56	.53	188.00/M
4.00	32	XD	WK6222CT-ND	.56	.53	—
5.00	32	YD	WK6223CT-ND	.56	.53	—

* For Tape and Reel part number, change CT-ND to TR-ND.

Telecom Protectors
Transient Tolerant

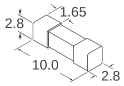

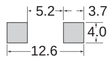

Applicable Standards: • UL 60950/1950 3rd Edition • Telcordia (Bellcore) GR-1089 • EIA-IS-968

Approvals: cULus Recognized

Features: • Surge proof for telecom line applications • No need for series resistors (1.25A and 2.00A)

Materials: • Housing: Ceramic tube • Element: Wire • Terminals: Copper, nickel and silver plated

Electrical Characteristics:

Rated Current	Pre-arcing Rating 100%	250%
1.25, 2.00A	>4hr.	1 ~ 120 sec.

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	T & R Pricing* 500
		457 Series			
1.25	250	WK1067CT-ND	1.26	1.18	—
2.00	250	WK1068CT-ND	1.26	1.18	244.00

* For Tape and Reel part number, change CT-ND to TR-ND.

Picofuse Fast Acting 125V 275 S eries

Applicable Standards: • UL 248-14 • CSA C22.2 No. 248.14

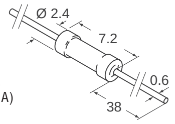

Approvals: • UL Listed: File No. E 67006 (63mA ~ 7A) • cUL Listed: File No. E 67006 (63mA ~ 7A) • UL Recognized: File No. E 67006 (10A) • CSA Certified: File No. 51378 (10A)

Features: • Subminiature • Axial Leads

Materials: • Body: Ceramic tube, Heat Shrink tube • Plug-on Caps: Copper alloy, tin plated

Operating Temperature: -25°C ~ 70°C (consider de-rating)

Electrical Characteristics:

Rated Current	Pre-arcing Rating 200%	200% Wickmann Tested
63mA ~ 10.00A	<60s	<5s

Amp Rating (A)	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	T & R Pricing* 2,500
		275 Series			
.125	125	WK1081CT-ND	.48	.45	219.00/M
.250	125	WK1082CT-ND	.51	.48	202.00/M
.375	125	WK1083CT-ND	.52	.49	214.00/M
.750	125	WK1085CT-ND	.36	.34	170.00/M
1.00	125	WK1086CT-ND	.36	.34	—
1.50	125	WK1087CT-ND	.36	.34	168.00/M
2.00	125	WK1088CT-ND	.36	.34	168.00/M
3.00	125	WK1090CT-ND	.36	.34	—
3.50	125	WK1091CT-ND	.36	.34	168.00/M
4.00	125	WK1092CT-ND	.36	.34	168.00/M
5.00	125	WK1093CT-ND	.36	.34	168.00/M
7.00	125	WK1094CT-ND	.36	.34	168.00/M
10.0	125	WK1095CT-ND	.36	.34	168.00/M

* For Tape and Reel part number, change CT-ND to TR-ND.

TE5 Fuseholder

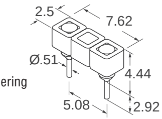

Material:
- Black thermoplastic UL 94-V0
- Terminals: Brass, tin-plated for soldering

Rated Values:
250V; 6.3A; UL Recognized

Holes in pc board: Ø1.0

WK0009-ND **\$1.13/1 \$10.34/10 \$75.20/100**

TE5 Sub-Miniature Fuses – UL 248-14

Approvals (395 and 396 Series): cUL Listed, UL Listed for .050A ~ 6.30A. MITI approved for 1.00A ~ 5.00A

Features: • Fast-acting and time-lag • Material: Brown thermoplastic UL 94-V0 • Round Pins: Copper alloy, tin-plated • Soldering Heat Resistance: 260°C, 10 seconds (IEC 60068-2-20) • Plug-in holders available

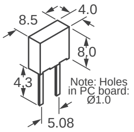

Short Leads

RoHS Compliant Parts Available

Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating 100%	200%
395	**50mA ~ 6.3A**	> 4 hr.	< 5 sec.
396	**50mA ~ 6.3A**	> 4 hr.	< 60 sec.

Breaking Capacity: 100A at 125VAC

Amp Rating	Voltage Rating	Digi-Key Part No.	Bulk Price Each 1	10	100
		Fast-Acting 395 Series			
.050	125	WK4322BK-ND	3.78	3.49	2.62
.063	125	WK4325BK-ND	2.42	2.24	1.68
.080	125	WK4326BK-ND	3.28	3.03	2.28
.100	125	WK4327BK-ND	.89	.82	.62
.125	125	WK4328BK-ND	.89	.82	.62
.160	125	WK4330BK-ND	.89	.82	.62
.200	125	WK4334BK-ND	.89	.82	.62
.250	125	WK4335BK-ND•	.89	.82	.62
.315	125	WK4337BK-ND	.89	.82	.62
.400	125	WK4340BK-ND	.89	.82	.62
.500	125	WK4341BK-ND•	.89	.82	.62
.630	125	WK4343BK-ND	.89	.82	.62
.800	125	WK4346BK-ND	.89	.82	.62
1.00	125	WK4348BK-ND•	.89	.82	.62
1.25	125	WK4350BK-ND•	.89	.82	.62
1.60	125	WK4353BK-ND	.89	.82	.62
2.00	125	WK4357BK-ND•	.89	.82	.62
2.50	125	WK4358BK-ND•	.89	.82	.62
3.15	125	WK4324BK-ND	.89	.82	.62
4.00	125	WK4362BK-ND•	.89	.82	.62
5.00	125	WK4363BK-ND	.89	.82	.62
6.30	125	WK4366BK-ND•	.89	.82	.62
		Time-Lag 396 Series			
.063	125	WK4425BK-ND	1.26	1.17	.88
.080	125	WK4426BK-ND	1.26	1.17	.88
.100	125	WK4427BK-ND	1.12	1.04	.78
.125	125	WK4428BK-ND	1.12	1.04	.78
.160	125	WK4430BK-ND	1.12	1.04	.78
.200	125	WK4434BK-ND•	.94	.87	.65
.250	125	WK4435BK-ND	.94	.87	.65
.315	125	WK4437BK-ND	.94	.87	.65
.400	125	WK4440BK-ND	.94	.87	.65
.500	125	WK4441BK-ND•	.94	.87	.65
.630	125	WK4443BK-ND	.94	.87	.65
.800	125	WK4446BK-ND•	.94	.87	.65
1.00	125	WK4448BK-ND•	.94	.87	.65
1.25	125	WK4450BK-ND	.94	.87	.65
1.60	125	WK4453BK-ND•	.94	.87	.65
2.00	125	WK4457BK-ND•	.94	.87	.65
2.50	125	WK4458BK-ND	.94	.87	.65
3.15	125	WK4424BK-ND•	.94	.87	.65
4.00	125	WK4462BK-ND•	.94	.87	.65
5.00	125	WK4463BK-ND•	.94	.87	.65
6.30	125	WK4466BK-ND	.94	.87	.65

• **WK0117-KIT-ND *Digi-Key® TE5 Sub-Miniature Fuse Kit***
10 each of ***TE5 Sub-Miniature Fuses*** indicated and 20 each of ***TE5 Fuseholders*** (WK0009-ND). **\$79.95**

WICKMANN

TR5 Sub-Miniature Fuses – IEC 60127-3

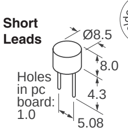

Approvals:

- **370 Series:** SEMKO Approved, cULus Recognized, CCC Approved (.050A ~ 6.30A), VDE Approved (.050A ~ 5.00A) Expert Report (6.30A), METI Approved (1.00A ~ 4.00A) Pending (5.00A)
- **372 Series:** SEMKO Approved, cULus Recognized, CCC Approved (.050A ~ 6.30A), VDE Approved (.050A ~ 4.00A) Expert Report (5.00A, 6.30A), METI Approved (1.00A ~ 4.00A). Korean Approved (.050A ~ 6.30A).
- **382 Series:** SEMKO Approved, cULus Recognized, CCC Approved (1.00A ~ 6.30A), VDE Approved (1.00A ~ 4.00A) Expert Report (5.00A, 6.30A), METI Approved (1.00A ~ 5.00A) Koren Approval (1.00A ~ 4.00A)

Material:

- Base and Cap: Brown thermoplastic, Polyamide PA 6.6, UL94-V0
- Round Pins: Copper alloy, tin-plated

Features:

- Fast-acting and Time-lag
- Soldering Heat Resistance: 260°C, 10 seconds (IEC 60068-2-20)
- Plug-in holders available

RoHS Compliant Parts Available

Electrical Characteristics:

Pre-arcing Rating				
150%	**210%**	**275%**	**400%**	**1000%**
Series 370 — 50mA ~ 6.30A				
>1 hr.	<30 min.	10ms ~ 3sec.	3 ~ 300ms	<20ms
Series 372 — 50mA ~ 6.30A				
>1 hr.	<2 min.	400ms ~ 10sec.	150ms ~ 3sec.	20 ~ 150ms
Series 382 — 1.00A ~ 6.30A				
>1 hr.	<2 min.	400ms ~ 10sec.	150ms ~ 3sec.	20 ~ 150ms

BREAKING CAPACITY: 370 and 372 Series: 35A at 250VAC for (.050A ~ 3.15A), 40A for (4.00A), 50A for (5.00A, 6.30A) **382 Series:** 100A at 250VAC (1.00A ~ 6.30A)

Amp Rating	Voltage Rating	Digi-Key Part No.	Bulk Price Each 1	10	100
Fast-Acting 370 Series (IEC 60127-3/III)					
.050	250	WK4922BK-ND	3.20	2.96	2.22
.063	250	WK4925BK-ND	3.20	2.96	2.22
.080	250	WK4926BK-ND	3.20	2.96	2.22
.100	250	WK4927BK-ND	.67	.62	.47
.125	250	WK4928BK-ND	.67	.62	.47
.160	250	WK4930BK-ND	.67	.62	.47
.200	250	WK4934BK-ND	.67	.62	.47
.250	250	WK4935BK-ND•	.67	.62	.47
.315	250	WK4937BK-ND	.67	.62	.47
.400	250	WK4940BK-ND	.67	.62	.47
.500	250	WK4941BK-ND	.67	.62	.47
.630	250	WK4943BK-ND	.67	.62	.47
.800	250	WK4946BK-ND	.67	.62	.47
1.00	250	WK4948BK-ND•	.67	.62	.47
1.25	250	WK4950BK-ND•	.67	.62	.47
1.60	250	WK4953BK-ND•	.67	.62	.47
2.00	250	WK4957BK-ND•	.67	.62	.47
2.50	250	WK4958BK-ND	.67	.62	.47
3.15	250	WK4924BK-ND	.67	.62	.47
4.00	250	WK4962BK-ND	.67	.62	.47
5.00	250	WK4963BK-ND	.67	.62	.47
6.30	250	WK4964BK-ND†	.67	.62	.47
Time-Lag 372 Series (IEC 60127-3/IV)					
.050	250	WK4222BK-ND	.90	.83	.63
.063	250	WK4225BK-ND	.90	.83	.63
.080	250	WK4226BK-ND	.73	.68	.51
.100	250	WK4227BK-ND	.73	.68	.51
.125	250	WK4228BK-ND	.73	.68	.51
.160	250	WK4230BK-ND•	.73	.68	.51
.200	250	WK4234BK-ND•	.73	.68	.51
.250	250	WK4235BK-ND	.73	.68	.51
.315	250	WK4237BK-ND•	.64	.60	.45
.400	250	WK4240BK-ND	.64	.60	.45
.500	250	WK4241BK-ND•	.64	.60	.45
.630	250	WK4243BK-ND•	.64	.60	.45
.800	250	WK4246BK-ND•	.64	.60	.45
1.00	250	WK4248BK-ND•	.64	.60	.45
1.25	250	WK4250BK-ND	.64	.60	.45
1.60	250	WK4253BK-ND•	.64	.60	.45
2.00	250	WK4257BK-ND•	.64	.60	.45
2.50	250	WK4258BK-ND•	.64	.60	.45
3.15	250	WK4224BK-ND•	.64	.60	.45
4.00	250	WK4262BK-ND•	.64	.60	.45
5.00	250	WK4263BK-ND	.64	.60	.45
6.30	250	WK4264BK-ND†	.64	.60	.45
Time-Lag High Breaking 382 Series (IEC 60127-3/IV)					
1.00	250	WK6207BK-ND	.76	.71	.53
2.00	250	WK6208BK-ND	.76	.71	.53
2.50	250	WK6209BK-ND	.76	.71	.53
3.15	250	WK6210BK-ND	.76	.71	.53
4.00	250	WK6211BK-ND	.76	.71	.53
5.00	250	WK6212BK-ND	.76	.71	.53
6.30	250	WK6213BK-ND†	.76	.71	.53

† Conducting Path minimum: 2mm²

- **WK0113-KIT-ND** ***Digi-Key® TR5 Sub-Miniature Fuse IEC 60127-3 Kit*** 10 each of ***TR5 Sub-Miniature Fuses*** indicated and 15 each of ***TR5 Fuseholders*** **(WK0001-ND)**............ **$74.95**

TR5 Sub-Miniature Fuses – UL 248-14

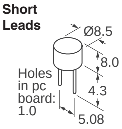

Approvals: 373 and 374 Series: UL Listed, CSA Certified Approved (.050A ~ 10A)

Material: • Base and cap: Brown thermoplastic UL 94-V0, insulated • Round Pins: Copper alloy, tin-plated

Features: • Fast-acting and Time-lag • Soldering Heat Resistance: 260°C, 10 seconds, IEC-60068-2-20 • Plug-in holders available

RoHS Compliant Parts Available

Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating 100%	200%
373	**50mA ~ 10.A**	4 hr. minimum	5 sec. maximum
374	**50mA ~ 10.00A**	4 hr. minimum	60 sec.maximum

Amp Rating	Voltage Rating	Digi-Key Part No.	Bulk Price Each 1	10	100
Fast-Acting 373 Series					
.050	250	WK3022BK-ND	3.82	3.53	2.65
.063	250	WK3025BK-ND	3.82	3.53	2.65
.080	250	WK3026BK-ND	3.82	3.53	2.65
.100	250	WK3027BK-ND	.85	.78	.59
.125	250	WK3028BK-ND	.85	.78	.59
.160	250	WK3030BK-ND	.85	.78	.59
.200	250	WK3034BK-ND	.85	.78	.59
.250	250	WK3035BK-ND•	.85	.78	.59
.315	250	WK3037BK-ND	.85	.78	.59
.400	250	WK3040BK-ND	.85	.78	.59
.500	250	WK3041BK-ND•	.85	.78	.59
.630	250	WK3043BK-ND	.85	.78	.59
.800	250	WK3046BK-ND	.85	.78	.59
1.00	250	WK3048BK-ND•	.85	.78	.59
1.25	250	WK3050BK-ND•	.85	.78	.59
1.60	250	WK3053BK-ND	.85	.78	.59
2.00	250	WK3057BK-ND•	.85	.78	.59
2.50	250	WK3058BK-ND•	.85	.78	.59
3.15	250	WK3024BK-ND	.85	.78	.59
4.00	250	WK3062BK-ND•	.85	.78	.59
5.00	250	WK3063BK-ND	.85	.78	.59
6.30	250	WK3066BK-ND•	.85	.78	.59
10.00	250	WK3071BK-ND	.85	.78	.59
Time-Lag 374 Series					
.050	250	WK4022BK-ND	1.31	1.21	.91
.063	250	WK4025BK-ND	1.31	1.21	.91
.080	250	WK4026BK-ND	1.22	1.13	.85
.100	250	WK4027BK-ND	1.22	1.13	.85
.125	250	WK4028BK-ND	1.03	.96	.72
.160	250	WK4030BK-ND	1.03	.96	.72
.200	250	WK4034BK-ND•	1.03	.96	.72
.250	250	WK4035BK-ND	.94	.87	.65
.315	250	WK4037BK-ND	.94	.87	.65
.400	250	WK4040BK-ND	.85	.78	.59
.500	250	WK4041BK-ND•	.85	.78	.59
.630	250	WK4043BK-ND	.85	.78	.59
.800	250	WK4046BK-ND•	.85	.78	.59
1.00	250	WK4048BK-ND•	.85	.78	.59
1.25	250	WK4050BK-ND	.85	.78	.59
1.60	250	WK4053BK-ND•	.85	.78	.59
2.00	250	WK4057BK-ND•	.85	.78	.59
2.50	250	WK4058BK-ND	.85	.78	.59
3.15	250	WK4024BK-ND•	.85	.78	.59
4.00	250	WK4062BK-ND•	.85	.78	.59
5.00	250	WK4063BK-ND•	.85	.78	.59
6.30	250	WK4066BK-ND	.85	.78	.59
10.00	250	WK4071BK-ND	.94	.87	.65

- **WK0116-KIT-ND** ***Digi-Key® TR5 Sub-Miniature Fuse UL-248-14 Kit*** 10 each of ***TR5 Sub-Miniature Fuses*** indicated and 15 each of ***TR5 Fuseholders*** **(WK0001-ND)** **$79.95**

TR5 / TE5 SMT Fuseholder

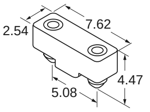

Material:

- Black thermoplastic UL 94-V0
- Terminals: Brass, tin-plated
- UL Recognized

Amp Rating	Voltage Rating	Digi-Key Part No.	Cut Tape Price Each 1	10	T & R Pricing* 1,500
6.3	250	WK0010CT-ND	1.38	1.27	739.20/M

* For Tape and Reel part number, change CT-ND to TR-ND.

TR5 Fuseholder

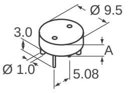

Material: • Thermoplastic, UL 94-V0 • Polyester PCT • Terminals: brass, tin-plated

Rated Values: 250V; 6.3A

Height (A) mm	Digi-Key Part No.	Price Each 1	10	Wickmann Part No.
3.0	WK0001-ND	.76	.70	5600000131
4.3	WK6235-ND	.61	.57	5600000100

UL / CSA Fuses Metric (5x20mm) — UL 248-14

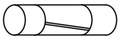

191 and 197 Series – Glass

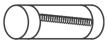

198 Series – Glass

Equivalent to:

Wickmann	Littelfuse	Bussmann
191 Series	235	GMA
197 Series	233	GMC
198 Series	239	GMD

Approvals: 191 Series: UL, cUL listed, .250A ~ 7.00A. **197 Series:** UL, cUL listed, 1.00A ~ 7.00A. **198 Series:** UL listed, CSA certified, .250A ~ 3.50A

RoHS Compliant Parts Available

Electrical Characteristics:

		Pre-arcing Rating	
Series	**Rated Current**	**135%**	**200%**
191	**.250A ~ 7.00A**	**< 1 hr.**	**< 5 sec.**
197	**1.00A ~ 7.00A**	**< 1 hr.**	**< 120 sec.**
198	**.250A ~ 3.00A** **3.50A**	**< 1 hr** **< 1 hr**	**5-120 sec.** **12-120 sec.**

Breaking Capacity 191 Series: 35A at 250VAC (.250A ~ 1.00A); 100A at 250VAC (1.25A ~ 3.50A); 10,000A at 125VAC (.250A ~ 7.00A)
197 Series: 35A at 250VAC (.250A ~ 1.00A); 100A at 250VAC (1.25A ~ 3.50A); 10,000A at 125VAC (.250A ~ 7.00A)
198 Series: 35A at 250VAC (.250A ~ 1.00A); 100A at 250VAC (1.25A ~ 3.50A); 10,000A at 125VAC (.250A ~ 3.50A)

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
Fast-Acting 191 Series					
.250	250	WK4701-ND	—	.27	.21
.300	250	WK4702-ND	—	.21	.16
.350	250	WK4703-ND	—	.21	.16
.400	250	WK4704-ND	—	.21	.16
.500	250	WK4705-ND	—	.18	.14
.600	250	WK4706-ND	—	.18	.14
.700	250	WK4707-ND	—	.18	.14
.800	250	WK4708-ND	—	.15	.12
1.00	250	WK4709-ND	—	.15	.12
1.25	250	WK4710-ND	—	.15	.12
2.50	250	WK4713-ND	—	.18	.14
3.50	250	WK4715-ND	—	.15	.12
6.00	125	WK4718-ND	—	.21	.16
7.00	125	WK4719-ND	—	.15	.12
Medium Time-Lag 197 Series					
1.00	250	WK4748-ND	.29	.27	.21
1.25	250	WK4750-ND	.29	.27	.21
1.60	250	WK4753-ND	.29	.27	.21
3.50	250	WK4723-ND	.29	.27	.21
7.00	125	WK4767-ND	.29	.27	.21
Time-Lag 198 Series					
.250	250	WK4835-ND	.42	.39	.30
.300	250	WK4836-ND	.33	.30	.23
.400	250	WK4840-ND	.29	.27	.21
.700	250	WK4844-ND	.36	.33	.25
.800	250	WK4846-ND	.36	.33	.25
1.00	250	WK4848-ND	.36	.33	.25
1.25	250	WK4850-ND	.36	.33	.25
2.00	250	WK4857-ND	.39	.36	.27
2.50	250	WK4858-ND	.39	.36	.27

TR5 Panel Mount Fuseholder

Material:

- Holder: Black thermoplastic UL 94-V0
- Polyamide PA
- Metal Parts: Copper alloy, solderable tinned
- Cap: Transparent thermoplastic polycarbonate PC, UL 94-V0

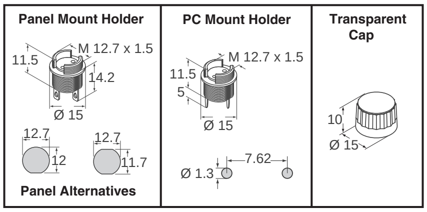

Description	Digi-Key Part No.	Price Each 1	10	Wickmann Part No.
Panel Mount Holder	WK6224-ND	1.12	1.04	5700000000
PC Mount Holder	WK6225-ND	.92	.85	5710000000
Transparent Cap	WK6226-ND	.43	.40	5750000000

WICKMANN

IEC 60127-2 Metric (5x20mm) Fuses

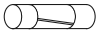
193 & 195 Series – Glass

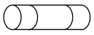
181 & 194 Series – Ceramic

RoHS Compliant Parts Available

Approvals:

193 Series: SEMKO Approved, VDE Approved, cULus Recognized (0.050A ~ 6.30A), CCC Approved (0.500A-6.30A)

194 Series: SEMKO Approved, VDE Approved (0.200A ~ 6.30A), cULus Recognized (0.315A ~ 16A), CCC Approved (1.00A ~ 6.30A)

181 Series: SEMKO Approved, VDE Approved, BSI Approved, SEV Approved, METI Approved, CCC Approved (1.00A ~ 6.30A), cULus Recognized (0.125A ~ 10A)

195 Series: SEMKO Approved, VDE Approved, BSI Approved, IMQ Approved, CCC Approved (0.032A ~ 6.30A), cULus Recognized (0.032A ~ 12.50A), METI Approved (1.00A ~ 5.00A)

Electrical Characteristics:

Series	Rated Current	Pre-arcing Rating				
		150%	210%	275%	400%	1000%
193	0.050 ~ .100A	> 1 hr.	< 30 min.	10 ~ 500ms	3 ~ 100 ms	<20 ms
	.125 ~ 6.3A	> 1 hr.	< 30 min.	50ms ~ 2 sec.	10 ~ 300ms	<20 ms
194	0.200 ~ 3.15A	> 1 hr.	< 30 min.	10ms ~ 2 sec.	3 ~ 300 ms	<20 ms
	4.0 ~ 6.3A	> 30 min.	< 30 min.	10ms ~ 3 sec.	3 ~ 300 ms	<20 ms
	8.0 ~ 10.0A	> 30 min.	> 1 hr.	10ms ~ 3 sec.	3 ~ 300 ms	<20 ms
181	1.00 ~ 3.15A	> 1 hr.	< 30 min.	1-80 sec.	95ms ~ 5sec.	10 ~ 100ms
	4.00 ~ 6.3A	> 1 hr.	< 30 min.	1-80 sec.	150ms ~ 5sec.	20 ~ 100ms
	8.00 ~ 10.0A	> 1 hr.	< 30 min.	—	60ms ~ 5sec.	10 ~ 100ms
195	0.032 ~ .100A	> 1 hr.	< 2 min.	200ms ~ 10 sec.	40ms ~ 3 sec.	10 ~ 300 ms
	.125 ~ 6.3A	> 1 hr.	< 2 min.	600ms ~ 10 sec.	150 ms ~ 3 sec.	20 ~ 300 ms
	8.0 ~ 16.0A	> 30 min.	< 10 min.	—	—	20 ~ 300 ms

BREAKING CAPACITY:

193 Series: 35A at 250VAC for (.050 ~ 3.15A), 40A for (4.0A), 50A for (5A), 63A for (6.3A)
194 Series: 1500A at 250VAC
181 Series: 1500A at 250VAC (≤ 6.30A), 1000A at 250VAC (8 ~ 10A)
195 Series: 35A at 250VAC for (.032 ~ 3.15A), 40A for (4.0A), 50A for (5.0A), 63A for (6.3 ~ 16A)

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
Fast-Acting 193 Series					
.100	250	WK1027-ND	.20	.19	.14
.160	250	WK1030-ND	.20	.19	.14
.315	250	WK1037-ND	.20	.19	.15
.400	250	WK1040-ND	.20	.19	.15
.630	250	WK1043-ND	.20	.19	.14
.800	250	WK1046-ND	.20	.18	.14
1.25	250	WK1050-ND	.20	.18	.14
2.50	250	WK1058-ND	.20	.19	.15
4.00	250	WK1062-ND	.21	.20	.15
6.30	250	WK1066-ND	.21	.20	.15
Fast Acting, High Breaking Capacity 194 Series					
.200	250	WK2034-ND	.97	.90	.68
.315	250	WK2037-ND	.96	.89	.67
.400	250	WK2040-ND	.54	.50	.38
.630	250	WK2043-ND	.54	.50	.38
1.00	250	WK2048-ND	.54	.50	.38
1.60	250	WK2053-ND	.54	.50	.38
2.00	250	WK2057-ND	.54	.50	.38
2.50	250	WK2058-ND	.54	.50	.38
3.15	250	WK2124-ND	.57	.53	.40
4.00	250	WK2062-ND	.57	.53	.40
5.00	250	WK2063-ND	.57	.53	.40
6.30	250	WK2066-ND	.57	.53	.40

Amp Rating	Voltage Rating	Digi-Key Part No.	Price Each 1	10	100
Time Lag High Breaking Capacity 181 Series (IEC 60127-2/SS5V)					
1.00	250	WK2248-ND	.42	.39	.30
2.00	250	WK2257-ND	.38	.35	.27
2.50	250	WK2258-ND	.38	.35	.27
4.00	250	WK2262-ND	.38	.35	.27
5.00	250	WK2263-ND	.38	.35	.27
Time-Lag 195 Series					
.032	250	WK5019-ND	.99	.92	.69
.040	250	WK5021-ND	.99	.92	.69
.050	250	WK5022-ND	.99	.92	.69
.080	250	WK5026-ND	.84	.78	.59
.125	250	WK5028-ND	.66	.61	.46
.500	250	WK5041-ND	.43	.40	.30
1.25	250	WK5050-ND	.41	.38	.29
1.60	250	WK5053-ND	.41	.38	.29
2.50	250	WK5058-ND	.32	.30	.22
3.15	250	WK5124-ND	.32	.30	.22
4.00	250	WK5062-ND	.34	.32	.24
PC Board Mount (5x20mm)					
—	—	WK0011-ND	.35	.33	.25

5x20mm In-Line Fuseholder

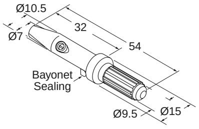

Terminals:
- Solderable/screwable
- Accepts 14-20AWG wire

Ratings:
250V, 6.3A

WK0012-ND .... **$1.76/1; $16.29/10; $122.18/100**

Shock-Safe Fuseholders

Shock-Safe fuseholders for 1/4 x 1-1/4" (3AG) or 5 x 20mm fuses built according to UL 512 and IEC 60127-6 and CSA C22.2 No. 39, • VDE, SEMKO rated for use up to 250 Volts. • Rated Current; 6.3 amps VDE for (Fig. 1-4, 6, 9), 10 amps VDE for (Fig. 5) • UL/CSA 16 amps for (Fig. 1-6)

- Casing made of black thermoplastic with UL-94-V0 ratings. Injection-molded terminals prevent intermittent connections.
- PC Mount versions include additional pin(s) for added stability from torsional forces seen during fuse removal.
- Panel Mount versions have combination 3/16" quick-connect/solderable tabs Order number includes holder and carrier. PC Board Mount (Fig. 9): No approvals.
- Body Material: White thermoplastic, UL 94-V0 rated
- Rated Current: 6.3A

VERTICAL FUSE HOLDERS — NO CAPS

Fig. 1
3AG

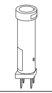

Fig. 2
5 x 20mm

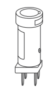

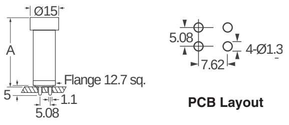

PCB Layout

HORIZONTAL FUSE HOLDERS — NO CAPS

Fig. 3
3AG

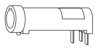

Fig. 4
5 x 20mm

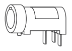

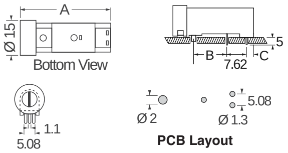

PCB Layout

PANEL MOUNT FUSE HOLDERS — NO CAPS

Fig. 5
3AG

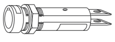

Fig. 6
5 x 20mm

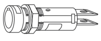

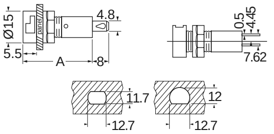

Panel Cutout (Alternatives)

FUSE CAPS

Fig. 7
6.3 x 32mm

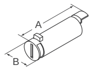

Fig. 8
5 x 20mm

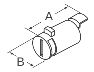

PC MOUNT FUSE HOLDERS

Fig. 9 – 5 X 20mm

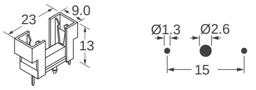

Fig.	Description	Dimension (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Wickmann Part No.
1	Vertical 3AG (6.3 X 32mm) Holder	46.3	—	—	WK6229-ND•	1.39	1.29	.97	81100000005
2	Vertical (5 X 20mm) Holder	32.6	—	—	WK6233-ND•	1.09	1.01	.76	83100000005
3	Horizontal 3AG (6.3 X 32mm) Holder	45.7	27.94	1.90	WK6228-ND•	1.82	1.68	1.26	81000000005
4	Horizontal (5 X 20mm) Holder	32.0	12.7	1.80	WK6232-ND•	1.05	.97	.73	83000000005
5	Panel Mount 3AG (6.3 X 32mm) Holder	45.7	—	—	WK6227-ND•	1.50	1.38	1.04	80000000005
6	Panel Mount (5 X 20mm) Holder	32.0	—	—	WK6231-ND•	1.20	1.11	.84	82000000005
7	3AG (6.3 X 32mm) Fuse Cap	33.8	9.20	—	WK6230-ND•	1.10	1.02	.77	81600000005
8	(5 X 20mm) Fuse Cap	20.6	9.20	—	WK6234-ND•	.77	.71	.54	83500000005
9	PC Mount (5 X 20mm) Holder	—	—	—	WK0011-ND	.35	.33	.25	64900001009
Digi-Key® Fuseholder Kit	1 each of WK6233-ND and WK6234-ND combined in a single bag				WK-KIT-ND	2.75	2.56	1.99	—

- Fuse Cap and Holder are sold separate

CANTHERM

Encapsulated Thermal Switches

Encapsulated Thermal Switches are ideal for sensing the temperature of a surface or of stagnant air in an enclosure. Available with PC pins or with flexible wire leads for remote installation. Their high temperature resistance and high dielectric strength make it ideal for protecting heatsink-mounted semiconductors. Other applications would be protecting power supplies, or simply turning on a fan at a desired temperature.

Current Sensitivity: The thermal switches are not current sensitive at rated currents. At loads above the rated values, up to maximum loading there is self-heating of the current carrying contacts.

Insulation Resistance: 2500 V @ 25°C, Leads to Earth 1500 V @ 100°C. Across open contacts, dependent on response temperature: 500 V eff. AC.

Marking: Response temperature in clear text (5°C steps). Normally Closed = blue or black (epoxy); Normally Open = red (epoxy)

UL E46827 CSA LR28044-10 VDE 4523-4510-0702/329CU

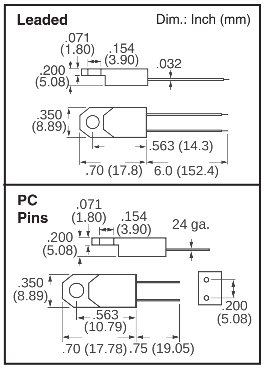

Electrical Specifications

Type	N/C	N/O
Voltage Rating 50-60 Hz	120 V / 250 V	120 V / 250 V
Current Rating Resistive	3.0 A / 2.0 A	1 A / 1 A*
Current Rating Inductive	1.8 A / 1.2 A	1 A / 1 A
Max. Load Resistive	4.0 A	4.0 A
Short Circuit Current Up to	6.3 A	6.3 A
Contact Arrangement Normally Closed N/C Normally Open N/O	—○—○—	—○╲○—
Contact Resistance	< 40 mΩ	< 40 mΩ
Response Temperature Range	70°C ~ 160° C	70°C ~ 150°C
Tolerance Range	±5°C	±5°C
Max. Permanent Temperature of Housing - G410	220°C	220°C
Housing Material - G410	PPS	PPS
Thermal Conductivity	4.0 BTU - in. / hr. / ft² / °F	

* When N/O contacts are closed, self heating will occur at currents exceeding normal rating. It is possible that, given certain combinations of set temperature current and ambient temperature, the contacts will not reset.

Thermal Switches With Leads

Switch Temp. (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
			Normally Closed			
70	317-1000-ND	6.24	5.46	4.60	3.16	F1107025ACFA06E
75	317-1001-ND	6.24	5.46	4.60	3.16	F1107525ACFA06E
80	317-1002-ND	6.24	5.46	4.60	3.16	F1108025ACFA06E
85	317-1003-ND	6.24	5.46	4.60	3.16	F1108525ACFA06E
90	317-1004-ND	6.24	5.46	4.60	3.16	F1109025ACFA06E
95	317-1005-ND	6.24	5.46	4.60	3.16	F1109525ACFA06E
100	317-1006-ND	6.24	5.46	4.60	3.16	F1110025ACFA06E
105	317-1007-ND	6.24	5.46	4.60	3.16	F1110525ACFA06E
110	317-1008-ND	6.24	5.46	4.60	3.16	F1111025ACFA06E
115	317-1009-ND	6.24	5.46	4.60	3.16	F1111525ACFA06E
120	317-1010-ND	6.24	5.46	4.60	3.16	F1112025ACFA06E
125	317-1011-ND	6.24	5.46	4.60	3.16	F1112525ACFA06E
130	317-1012-ND	6.24	5.46	4.60	3.16	F1113025ACFA06E
135	317-1013-ND	6.24	5.46	4.60	3.16	F1113525ACFA06E
140	317-1014-ND	6.24	5.46	4.60	3.16	F1114025ACFA06E
145	317-1015-ND	6.24	5.46	4.60	3.16	F1114525ACFA06E
150	317-1016-ND	6.24	5.46	4.60	3.16	F1115025ACFA06E
155	317-1017-ND	6.24	5.46	4.60	3.16	F1115525ACFA06E
160	317-1018-ND	6.24	5.46	4.60	3.16	F1116025ACFA06E
			Normally Open			
70	317-1019-ND	8.12	7.11	5.98	4.11	F1107015ACFA06E
75	317-1020-ND	8.12	7.11	5.98	4.11	F1107515ACFA06E
80	317-1021-ND	8.12	7.11	5.98	4.11	F1108015ACFA06E
85	317-1022-ND	8.12	7.11	5.98	4.11	F1108515ACFA06E
90	317-1023-ND	8.12	7.11	5.98	4.11	F1109015ACFA06E
95	317-1024-ND	8.12	7.11	5.98	4.11	F1109515ACFA06E
100	317-1025-ND	8.12	7.11	5.98	4.11	F1110015ACFA06E
105	317-1026-ND	8.12	7.11	5.98	4.11	F1110515ACFA06E
110	317-1027-ND	8.12	7.11	5.98	4.11	F1111015ACFA06E
115	317-1028-ND	8.12	7.11	5.98	4.11	F1111515ACFA06E
120	317-1029-ND	8.12	7.11	5.98	4.11	F1112015ACFA06E
125	317-1030-ND	8.12	7.11	5.98	4.11	F1112515ACFA06E
130	317-1031-ND	8.12	7.11	5.98	4.11	F1113015ACFA06E
135	317-1032-ND	8.12	7.11	5.98	4.11	F1113515ACFA06E
140	317-1033-ND	8.12	7.11	5.98	4.11	F1114015ACFA06E
145	317-1034-ND	8.12	7.11	5.98	4.11	F1114515ACFA06E
150	317-1035-ND	8.12	7.11	5.98	4.11	F1115015ACFA06E

Thermal Switches With PC Pins

Switch Temp. (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
			Normally Closed			
70	317-1038-ND	6.24	5.46	4.60	3.16	F11070251ZA0060
75	317-1039-ND	6.24	5.46	4.60	3.16	F11075251ZA0060
80	317-1040-ND	6.24	5.46	4.60	3.16	F11080251ZA0060
85	317-1041-ND	6.24	5.46	4.60	3.16	F11085251ZA0060
90	317-1042-ND	6.24	5.46	4.60	3.16	F11090251ZA0060
95	317-1043-ND	6.24	5.46	4.60	3.16	F11095251ZA0060
100	317-1044-ND	6.24	5.46	4.60	3.16	F11100251ZA0060
105	317-1045-ND	6.24	5.46	4.60	3.16	F11105251ZA0060
110	317-1046-ND	6.24	5.46	4.60	3.16	F11110251ZA0060
115	317-1047-ND	6.24	5.46	4.60	3.16	F11115251ZA0060
120	317-1048-ND	6.24	5.46	4.60	3.16	F11120251ZA0060
125	317-1049-ND	6.24	5.46	4.60	3.16	F11125251ZA0060
130	317-1050-ND	6.24	5.46	4.60	3.16	F11130251ZA0060
135	317-1051-ND	6.24	5.46	4.60	3.16	F11135251ZA0060
140	317-1052-ND	6.24	5.46	4.60	3.16	F11140251ZA0060
145	317-1053-ND	6.24	5.46	4.60	3.16	F11145251ZA0060
150	317-1054-ND	6.24	5.46	4.60	3.16	F11150251ZA0060
155	317-1055-ND	6.24	5.46	4.60	3.16	F11155251ZA0060
160	317-1056-ND	6.24	5.46	4.60	3.16	F11160251ZA0060
			Normally Open			
70	317-1057-ND	8.12	7.11	5.98	4.11	F11070151ZA0060
75	317-1058-ND	8.12	7.11	5.98	4.11	F11075151ZA0060
80	317-1059-ND	8.12	7.11	5.98	4.11	F11080151ZA0060
85	317-1060-ND	8.12	7.11	5.98	4.11	F11085151ZA0060
90	317-1061-ND	8.12	7.11	5.98	4.11	F11090151ZA0060
95	317-1062-ND	8.12	7.11	5.98	4.11	F11095151ZA0060
100	317-1063-ND	8.12	7.11	5.98	4.11	F11100151ZA0060
105	317-1064-ND	8.12	7.11	5.98	4.11	F11105151ZA0060
110	317-1065-ND	8.12	7.11	5.98	4.11	F11110151ZA0060
115	317-1066-ND	8.12	7.11	5.98	4.11	F11115151ZA0060
120	317-1067-ND	8.12	7.11	5.98	4.11	F11120151ZA0060
125	317-1068-ND	8.12	7.11	5.98	4.11	F11125151ZA0060
130	317-1069-ND	8.12	7.11	5.98	4.11	F11130151ZA0060
135	317-1070-ND	8.12	7.11	5.98	4.11	F11135151ZA0060
140	317-1071-ND	8.12	7.11	5.98	4.11	F11140151ZA0060
145	317-1072-ND	8.12	7.11	5.98	4.11	F11145151ZA0060
150	317-1073-ND	8.12	7.11	5.98	4.11	F11150151ZA0060
155	317-1074-ND	8.12	7.11	5.98	4.11	F11155151ZA0060
160	317-1075-ND	8.12	7.11	5.98	4.11	F11160151ZA0060

Bi-metal Cutouts, Temperature Regulators / Temperature Limiters

The thermal response works a bimetal snap element electrically connected to the switch contact. The switch system is current insensitive. The thermal switches react only to external thermal effects. Double contacts ensure high switch performance and long service life. The housing, base, and the mounting brackets are voltage-free (Standard version: base and mounting brackets are aluminum-plated steel). Heat transfer occurs directly through the metallic base via convection, radiation and conduction in gaseous and solid media. The mounting flange is floating and can be rotated to any desired position with respect to the electrical terminals.

ADVANTAGES:
* High pressure resistance
* High response sensitivity
* Numerous applications
* Various housings, connections and mounting styles

UL E48909 CSA LR85477-1 VDE 4523-4610-1008

Electrical Specifications

Voltage Rating 50-60 Hz	120 V / 250 V
Current Rating Resistive	15 A / 10.0 A
Current Rating Inductive	6.3 A
Maximum Load Resistive	20 A / 16 A
Contact Resistance	< 50 mΩ
Nominal Temperature Range	0°C ~ 170° C
Tolerance Range	±5°C
Maximum Permanent Temperature	175°C
Housing Material	Duroplast
Overall Height (mm)	9.5 (+0.2)
Contacts: Normally Closed —○—○—	Normally Open —○╲○—

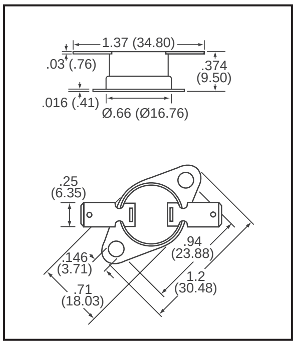

Switch Temp. (°C)	Digi-Key Part No.	Price Each 1	10	50	100	Cantherm Part No.
			Normally Closed			
15	317-1076-ND	8.40	7.35	6.10	4.02	R2001525
30	317-1077-ND	8.40	7.35	6.10	4.02	R2003025
35	317-1078-ND	8.40	7.35	6.10	4.02	R2003525
40	317-1079-ND	8.40	7.35	6.10	4.02	R2004025
45	317-1080-ND	8.40	7.35	6.10	4.02	R2004525
50	317-1081-ND	6.60	5.78	4.86	3.20	R2005025
60	317-1082-ND	6.60	5.78	4.86	3.20	R2006025
65	317-1083-ND	6.60	5.78	4.86	3.20	R2006525
70	317-1084-ND	6.60	5.78	4.86	3.20	R2007025
75	317-1085-ND	6.60	5.78	4.86	3.20	R2007525
80	317-1086-ND	6.60	5.78	4.86	3.20	R2008025
85	317-1087-ND	6.60	5.78	4.86	3.20	R2008525
90	317-1088-ND	6.60	5.78	4.86	3.20	R2009025
95	317-1089-ND	6.60	5.78	4.86	3.20	R2009525
100	317-1090-ND	6.60	5.78	4.86	3.20	R2010025
115	317-1091-ND	6.60	5.78	4.86	3.20	R2011525
			Normally Open			
35	317-1092-ND	10.80	9.45	7.95	5.24	R2003515
40	317-1093-ND	10.80	9.45	7.95	5.24	R2004015
50	317-1094-ND	9.00	7.88	6.55	4.31	R2005015
60	317-1095-ND	9.00	7.88	6.55	4.31	R2006015
80	317-1096-ND	9.00	7.88	6.55	4.31	R2008015
100	317-1097-ND	9.00	7.88	6.55	4.31	R2010015

CANTHERM

TS3 Series Moxie® Thermal Sensors

Moxies are variable resistance NTC thermal sensors having a highly specific "transition region." Within this transition region the devices exhibit a coefficient from -40%/°C to -200%/°C. Below the transition region they exhibit a linear "thermistor" characteristic of -2 to -4%/°C.

Technical Data:

- Maximum Allowable Operating Temperature: 120°C
- Minimum Allowable Operating Temperature: -40°C
- Maximum Allowable Operating Voltage @ 25°C: 125Vac
- Maximum Allowable Operating Power (Any Temp.): Normal use less or equal to 0.5mWatt
- Insulation Strength (Between Leads and Cap): 600Vdc • Conductors: Gold plated leads

TYPICAL RESPONSE CHARACTERISTICS				
Temp. Coefficient (%/°C)	**TS3-57**	**TS3-65**	**TS3-75**	**TS3-85**
Pre-Transition	-2.0	-4.0	-3.5	-3.0
Transition	-100	-200	-70	-40
Post-Transition	-0.25	-0.5	-1.0	-1.5

Dimensions in inches

Fig. 1

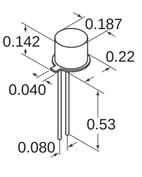

TO-18 Package

Fig. 2

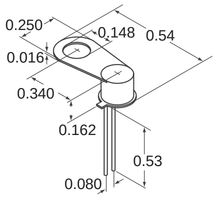

Fig. 3

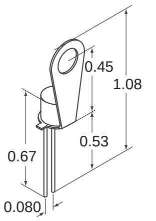

Fig.	Switching Temperature	Digi-Key Part No.	Price Each 1	10	50	Cantherm Part No.
1	57°C	317-1098-ND	6.80	5.95	4.00	TS3-57
2	57°C	317-1099-ND	7.48	6.55	4.36	TS3-57B3
3	57°C	317-1100-ND	7.48	6.55	4.36	TS3-57C3
1	65°C	317-1101-ND	6.80	5.95	4.00	TS3-65
2	65°C	317-1102-ND	7.48	6.55	4.36	TS3-65B3
3	65°C	317-1103-ND	7.48	6.55	4.36	TS3-65C3
1	75°C	317-1104-ND	6.80	5.95	4.00	TS3-75
2	75°C	317-1105-ND	7.48	6.55	4.36	TS3-75B3
3	75°C	317-1106-ND	7.48	6.55	4.36	TS3-75C3
1	85°C	317-1107-ND	9.35	8.50	8.01	TS3-85
2	85°C	317-1108-ND	10.29	9.35	8.70	TS3-85B3
3	85°C	317-1109-ND	10.29	9.35	8.70	TS3-85C3

*Please see data sheet for additional electrical characteristics.

YGM Series PTC Thermistors

PTC thermistors act as thermal protection for electrical machines, and are well known particularly as motor-protectors. PTC thermistors have a non-linear resistance/temperature response, and at a specified temperature the resistance changes rapidly to a very high value.

Technical Data:

- Maximum Allowable Operating Temperature: 200°C
- Maximum Allowable Operating Voltage at 25°C: U maximum 25V
- Maximum Allowable Power Dissipation at 25°C: 690mW
- Insulation strength (between leads and outer insulation) also for threaded sensor: 2.5kV

Dimensions in mm

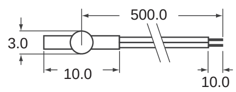

Response Temperature	Wire Color Code	Digi-Key Part No.	Price Each 1	10	50	Cantherm Part No.
80°C	White - White	317-1110-ND	6.68	5.85	3.90	YGM1-C508
90°C	Green - Green	317-1111-ND	6.68	5.85	3.90	YGM1-C509
100°C	Red - Red	317-1112-ND	6.68	5.85	3.90	YGM1-C510
110°C	Brown - Brown	317-1113-ND	6.68	5.85	3.90	YGM1-C511
120°C	Grey - Grey	317-1114-ND	6.68	5.85	3.90	YGM1-C512
130°C	Blue - Blue	317-1115-ND	6.68	5.85	3.90	YGM1-C513
140°C	White - Blue	317-1116-ND	6.68	5.85	3.90	YGM1-C514
145°C	White - Black	317-1117-ND	6.68	5.85	3.90	YGM1-C545
150°C	Black - Black	317-1118-ND	6.68	5.85	3.90	YGM1-C515
155°C	Blue - Black	317-1119-ND	6.68	5.85	3.90	YGM1-C655
160°C	Blue - Red	317-1120-ND	6.68	5.85	3.90	YGM1-C516
170°C	White - Green	317-1121-ND	6.68	5.85	3.90	YGM1-C517
180°C	Red - White	317-1122-ND	6.68	5.85	3.90	YGM1-C518

tyco Electronics P&B

Magnetic Hydraulic Circuit Breaker

Dimensions in mm

Fig. 1

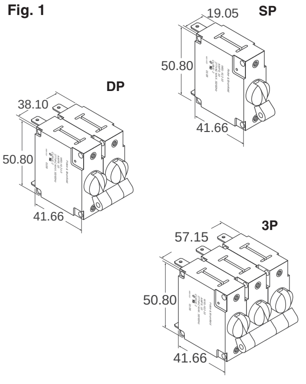

Fig. 2

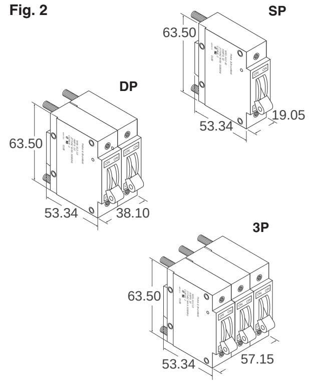

The W6/W9 series are designed for the international market. Magnetic hydraulic breakers are a proven design where the hydraulic delay provides tripping that is highly tolerant to changes in ambient temperatures. W9 units have ON/OFF molded into the area at the base of the toggle.

- **Calibration:** Breakers will hold 100% of rated current. Breakers may trip between 101% and 124% of rated load. Breakers must trip at 125% of rated load and above. • **Operating Temperature:** -40°C ~ 85°C.

Current (A)	Description	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Fig. 1 — White Toggle Actuator						
5	Toggle Type, SP, Instantaneous	PB426-ND	19.25	16.85	15.24	W67-X2Q10-5
10	Toggle Type, SP, Std Delay, VDE	PB427-ND	19.25	16.85	15.24	W67-X2Q52-10
10	Toggle Type, SP, Std Delay	PB592-ND	19.25	16.85	15.24	W67-X2Q12-10
15	Toggle Type, SP, Std Delay	PB428-ND	19.25	16.85	15.24	W67-X2Q12-15
20	Toggle Type, SP, Std Delay	PB593-ND	19.25	16.85	15.24	W67-X2Q12-20
10	Toggle Type, DP, Std Delay	PB429-ND	44.66	39.09	35.36	W68-X2Q12-10
15	Toggle Type, DP, Std Delay	PB430-ND	44.66	39.09	35.36	W68-X2Q12-15
20	Toggle Type, DP, Std Delay	PB431-ND	44.66	39.09	35.36	W68-X2Q12-20
30	Toggle Type, DP, Std Delay	PB594-ND	44.66	39.09	35.36	W68-X2Q12-30
10	Toggle Type, 3P, Std Delay	PB432-ND	60.70	53.11	48.06	W69-X2Q12-10
Fig. 2 — Black Toggle Actuator						
10	Toggle Type, SP, Std Delay	PB433-ND	18.70	16.36	14.81	W91-X112-10
20	Toggle Type, SP, Std Delay	PB434-ND	19.25	16.85	15.24	W91-X112-20
1	Toggle Type, DP, Std Delay	PB435-ND	44.66	39.09	35.36	W92-X112-1
10	Toggle Type, DP, Std Delay	PB595-ND	44.66	39.09	35.36	W92-X112-10
15	Toggle Type, DP, Std Delay	PB436-ND	44.66	39.09	35.36	W92-X112-15
20	Toggle Type, DP, Std Delay	PB437-ND	44.66	39.09	35.36	W92-X112-20
30	Toggle Type, DP, Std Delay	PB438-ND	44.66	39.09	35.36	W92-X112-30
50	Toggle Type, DP, Std Delay	PB439-ND	44.66	39.09	35.36	W92-X112-50
30	Toggle Type, 3P, Std Delay	PB596-ND	82.25	71.97	65.12	W93-X112-30
50	Toggle Type, 3P, Std Delay	PB440-ND	82.25	71.97	65.12	W93-X112-50

Thermal Circuit Breakers

W28 Series

Replaces slow blow cartridge type fuses. Labor saving snap-in mounting. Button extends for visual trip indication on the push to reset versions . All breakers are black body with white rate marking. Panel thickness of .032" to .062" (.81mm to 1.57mm) except where noted. Optional push-on lockwasher for panel thickness greater than .105" (2.67mm).

Specifications:

- Maximum operating voltage: 32VDC; 250VAC • Will continuously carry 100% of rated current.
- **.25-2 Amp Model** may trip between 101% and 174% of rating within 1 hour, must trip at 175% of rating within 1 hour at 25°C
- **3-20 Amp Model** may trip between 101% and 134% of rating within 1 hour, must trip at 135% of rating within 1 hour at 25°C

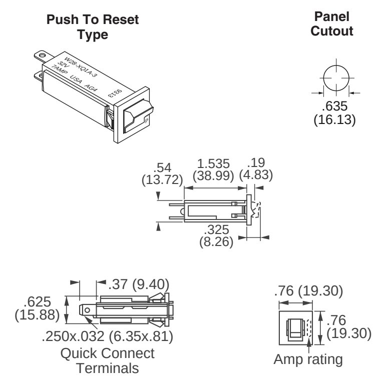

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Push To Reset Type					
0.25	PB180-ND	5.09	4.46	4.03	W28-XQ1A-0.25
0.50	PB181-ND	5.09	4.46	4.03	W28-XQ1A-0.50
1	PB182-ND	5.09	4.46	4.03	W28-XQ1A-1
2	PB183-ND	5.09	4.46	4.03	W28-XQ1A-2
3	PB184-ND	2.83	2.48	2.25	W28-XQ1A-3
4	PB185-ND	2.83	2.48	2.25	W28-XQ1A-4
5	PB186-ND	2.83	2.48	2.25	W28-XQ1A-5
6	PB187-ND	2.83	2.48	2.25	W28-XQ1A-6
7	PB188-ND	2.83	2.48	2.25	W28-XQ1A-7
8	PB189-ND	2.83	2.48	2.25	W28-XQ1A-8
10	PB190-ND	2.83	2.48	2.25	W28-XQ1A-10
12	PB191-ND	2.83	2.48	2.25	W28-XQ1A-12
15	PB192-ND	2.83	2.48	2.25	W28-XQ1A-15
10	PB239-ND†	2.83	2.48	2.25	W28-XT1A-10
12	PB240-ND†	2.83	2.48	2.25	W28-XT1A-12
20	PB425-ND	2.83	2.48	2.25	W28-XQ1A-20
Internal Lock Washer — W28 Series					
—	PB241-ND*	.31	.28	.25	55-025B

† Will mount in .075" to .105" (1.91mm to 2.67mm) thick panel, all others have std. panel thickness of .032" to .062" (.81mm to 1.57mm)

* Optional Push-On Lock Washer for panels greater than .105" (2.67mm) thickness.

W58 Series

Button extends for visual trip indication (red trip band). .250" (6.35mm) quick connect terminals or 6/32 screw terminals. Comes complete with knurled nut and hex nut assembled on bushing.

Specifications:

- Breaker will continuously carry 100% of rated load. It may trip between 101% and 144% of rated load, but must trip at 145% at 25°C. • Maximum operating voltage: 50VDC, 250VAC

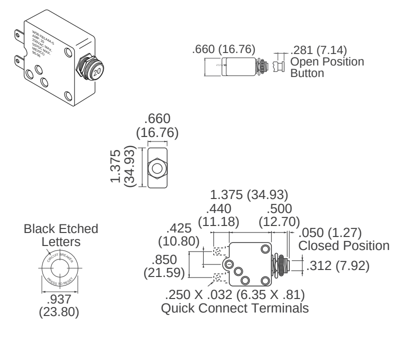

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Push to Reset Breaker — .250 (6.35) QC Terminal					
1	PB193-ND ‡	6.17	5.40	4.89	W58-XB1A4A-1
2	PB194-ND ‡	6.17	5.40	4.89	W58-XB1A4A-2
3	PB195-ND ‡	6.17	5.40	4.89	W5B-XB1A4A-3
4	PB196-ND ‡	6.17	5.40	4.89	W58-XB1A4A-4
5	PB197-ND ‡	4.44	3.89	3.52	W58-XB1A4A-5
6	PB198-ND ‡	4.44	3.89	3.52	W58-XB1A4A-6
7	PB199-ND ‡	4.44	3.89	3.52	W58-XB1A4A-7
8	PB200-ND ‡	4.44	3.89	3.52	W58-XB1A4A-8
10	PB201-ND ‡	4.44	3.89	3.52	W58-XB1A4A-10
12	PB202-ND ‡	4.44	3.89	3.52	W58-XB1A4A-12
15	PB203-ND ‡	4.44	3.89	3.52	W58-XB1A4A-15
20	PB204-ND ‡	4.44	3.89	3.52	W58-XB1A4A-20
25	PB205-ND ‡	4.44	3.89	3.52	W58-XB1A4A-25
30	PB206-ND ‡	4.44	3.89	3.52	W58-XB1A4A-30
Push to Reset Breaker — 6-32 Screw Terminal					
1	PB242-ND †	6.17	5.40	4.89	W58-XC4C12A-1
2	PB243-ND †	6.17	5.40	4.89	W58-XC4C12A-2
3	PB244-ND †	6.17	5.40	4.89	W58-XC4C12A-3
5	PB245-ND †	5.02	4.39	3.98	W58-XC4C12A-5
7	PB246-ND †	5.02	4.39	3.98	W58-XC4C12A-7
10	PB247-ND †	5.02	4.39	3.98	W58-XC4C12A-10
15	PB248-ND †	5.02	4.39	3.98	W58-XC4C12A-15
20	PB249-ND †	5.02	4.39	3.98	W58-XC4C12A-20
25	PB250-ND †	5.02	4.39	3.98	W58-XC4C12A-25
30	PB251-ND †	5.02	4.39	3.98	W58-XC4C12A-30

‡ White button, Red Marking, Red Trip Band

† White button, Black Marking, Red Trip Band

Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
"Push to Reset" disk for panel, use with 6-32 Screw Terminal Types				
PB253-ND	.43	.38	.35	33-012A
"Push to Reset" disk for panel, use with .250 (6.35) QC Terminal Types				
PB254-ND	.48	.42	.38	33-012C
Knurled Nut, Silver Plated, use with .250 (6.35) QC Terminal Types				
PB255-ND	.60	.53	.48	55-010A
Knurled Nut, Black, use with 6-32 Screw Terminal Types				
PB256-ND	1.03	.91	.82	55-010E

W23 and W31 Series

Two series of thermal circuit breakers with your choice of push/pull actuation or toggle actuation. W23 series (push/pull) has a visual trip indicator to quickly determine circuit breaker status. W31 series (toggle) offers an On/Off switch combined with circuit protection. Both series have amperage marking on the end of the actuator and 8-32 screw terminals. Single Pole only.

Features:

- **Calibration:** Will continuously carry 100% of rating, may trip between 101% and 134% of rating at 25°C. Must trip at 135% in one hour.
- **Maximum Operating Voltages:** 50VDC or 250VAC (to 400Hz)
- **Dielectric Strength:** Over 1,500 volts RMS
- **Endurance Cycling:** More than 6,000 cycles at 100% of rating, or 10,000 mechanical cycles
- **Termination:** Two #8-32 screw terminals

Agency Approvals: W23 and W31 are UL 1077 Recognized as Supplementary Protectors. File E69543, and CSA Certified as Appliance Component Protectors, File LR15734

Fig. 1 — W23 Series

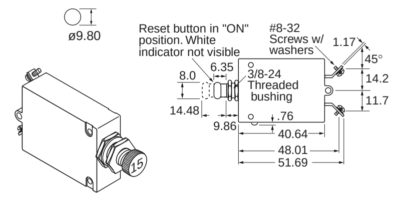

Fig. 2 — W31 Series

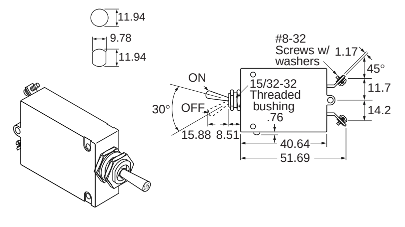

Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Fig. 1 — Push/Pull Type					
1	PB399-ND	32.98	28.86	26.11	W23-X1A1G-1
2	PB400-ND	32.98	28.86	26.11	W23-X1A1G-2
3	PB401-ND	32.98	28.86	26.11	W23-X1A1G-3
5	PB402-ND	21.50	18.82	17.03	W23-X1A1G-5
10	PB404-ND	21.50	18.82	17.03	W23-X1A1G-10
15	PB405-ND	21.50	18.82	17.03	W23-X1A1G-15
20	PB406-ND	21.50	18.82	17.03	W23-X1A1G-20
25	PB407-ND	21.50	18.82	17.03	W23-X1A1G-25
30	PB408-ND	21.50	18.82	17.03	W23-X1A1G-30
35	PB409-ND	21.50	18.82	17.03	W23-X1A1G-35
40	PB410-ND	21.50	18.82	17.03	W23-X1A1G-40
50	PB411-ND	21.50	18.82	17.03	W23-X1A1G-50
Fig. 2 — Toggle Type					
1	PB412-ND	38.66	33.84	30.61	W31-X2M1G-1
2	PB413-ND	38.66	33.84	30.61	W31-X2M1G-2
3	PB414-ND	38.66	33.84	30.61	W31-X2M1G-3
5	PB415-ND	26.74	23.40	21.17	W31-X2M1G-5
10	PB417-ND	26.74	23.40	21.17	W31-X2M1G-10
15	PB418-ND	26.74	23.40	21.17	W31-X2M1G-15
20	PB419-ND	26.74	23.40	21.17	W31-X2M1G-20
25	PB420-ND	26.74	23.40	21.17	W31-X2M1G-25
30	PB421-ND	26.74	23.40	21.17	W31-X2M1G-30
35	PB422-ND	26.74	23.40	21.17	W31-X2M1G-35
40	PB423-ND	26.74	23.40	21.17	W31-X2M1G-40
50	PB424-ND	26.74	23.40	21.17	W31-X2M1G-50

(Continued)

Thermal Circuit Breakers *(Cont.)*

W57 Series Miniature Thermal Breaker

Electrical Data @ 25°C:
- Calibration: Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at 25°C.
- Maximum Operating Voltages: 50VDC; 125 or 250VAC. (Mounting Hardware included.)

Mechanical/Environmental Data:
- Operating Temperature Range: 0°C ~ 60°C
- Termination: .250" quick connects

Agency Approvals:
UL 1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States

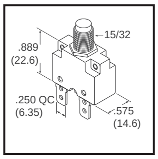

Description	Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Miniature Circuit Breaker - Push to Reset	5	PB532-ND	1.90	1.66	1.51	W57-XB7A4A10-5
	8	PB658-ND	1.90	1.66	1.51	W57-XB7A4A10-8
	10	PB533-ND	1.82	1.60	1.45	W57-XB7A4A10-10
	15	PB534-ND	1.82	1.60	1.45	W57-XB7A4A10-15
	20	PB535-ND	2.11	1.85	1.68	W57-XB7A4A10-20

W33 Series

Combination switch and separate circuit breaker in one package. 5-20 Amp versions available in either one circuit breaker with separate switch or 2 circuit breaker option available. Lighted or non-lighted actuator with convenient snap-in mounting. Available in three colors: black, white or amber. Illuminated versions are 120VAC neon lamps. Two breaker models will trip both sides when only 1 side is overdriven. Reset is accomplished with rocker actuator at front of device.

Specifications:
- Breaker will continuously carry 100% of the rated load. It may trip between 101% and 135% of rated load, but must trip at 135% within 1 hour at 25°C
- Maximum Operating Voltage: 50VCD, 250VAC

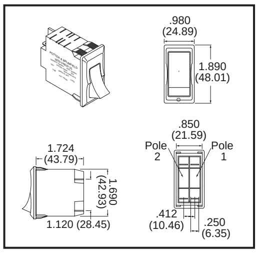

Current (A)	Actuator Color	Pole 1/ Pole 2 Type	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
5	Black	Switch/Breaker	PB257-ND	15.41	13.49	12.20	W33-S1N1Q-5
15	Black	Switch/Breaker	PB259-ND	15.41	13.49	12.20	W33-S1N1Q-15
20	Black	Switch/Breaker	PB260-ND	15.41	13.49	12.20	W33-S1N1Q-20
10	Amber	Switch/Breaker Illuminated	PB261-ND	18.70	16.36	14.81	W33-S4B1Q-10
15	Amber	Switch/Breaker Illuminated	PB262-ND	18.70	16.36	14.81	W33-S4B1Q-15
20	White	2 Breakers	PB263-ND	21.77	19.05	17.24	W33-T2N1Q-20
5	Amber	2 Breakers Illuminated	PB264-ND	24.46	21.40	19.37	W33-T4B1Q-5
10	Amber	2 Breakers Illuminated	PB265-ND	24.46	21.40	19.37	W33-T4B1Q-10
15	Amber	2 Breakers Illuminated	PB266-ND	24.46	21.40	19.37	W33-T4B1Q-15

W51 Series Rocker/Breaker Combination

Features:
- Compact, trip-free, rocker-actuated design
- Provides circuit protection and power switching in a single unit
- Snaps into the same cutout as many common power switches

Electrical Data @ 25°C:
- Calibration: Will continuously carry 100% of rating. May trip between 101% and 134%, but must trip at 135% of rating within one hour at 25°C.
- Maximum Operating Voltages: 50VDC; 125 or 250VAC 50/60Hz
- Reset Time: 60 Seconds

Mechanical/Environmental Data:
- Operating Temperature Range: 0°C ~ 60°C
- Termination: .250" quick connects
- Illumination Voltage: 120 or 230VAC

Agency Approvals:
UL 1077 Recognized as Supplementary Protectors, File E69543, for Canada and the United States

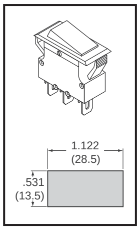

Description	Current (A)	Digi-Key Part No.	Price Each 1	25	50	Potter & Brumfield Part No.
Black Body 120V Illum. Red Rocker	5	PB528-ND	3.26	2.86	2.59	W51-A121B1-5
	10	PB529-ND	3.26	2.86	2.59	W51-A121B1-10
	15	PB530-ND	3.26	2.86	2.59	W51-A121B1-15
	20	PB531-ND	3.26	2.86	2.59	W51-A121B1-20
Black Body 230V Illum. Red Rocker	5	PB652-ND	3.26	2.86	2.59	W51-A122B1-5
	7	PB654-ND	3.26	2.86	2.59	W51-A122B1-7
	8	PB655-ND	3.26	2.86	2.59	W51-A122B1-8
	10	PB677-ND	3.26	2.86	2.59	W51-A122B1-10
	15	PB678-ND	3.14	2.76	2.49	W51-A122B1-15
	20	PB653-ND	3.26	2.86	2.59	W51-A122B1-20

Carling Technologies™

Thermal Circuit Breakers

The CMB and CLB Series are compact, single pole, push-to-reset thermal circuit breakers designed to protect equipment.

Specifications:
- CLB Series comes with push-to-reset disk
- Dielectric Strength: 1500 VAC/ 1 minute
- Interrupting capacity: 1000 amps
- Resettable overload capacity: 10 x rated current
- Insulation Resistance: 100MΩ
- Operating Temperature: -10°C ~ 60°C
- Voltage drop: <0.25V
- Mounting hardware included on CLB only

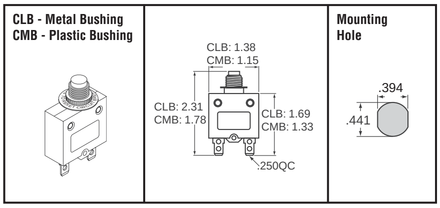

Current Amps	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
3	432-1048-ND	2.84	2.49	2.13	CLB-033-11-B-3-A-B-A
5	432-1050-ND	2.84	2.49	2.13	CLB-053-11-B-3-A-B-A
10	432-1053-ND	1.76	1.54	1.32	CLB-103-11-B-3-A-B-A
15	432-1056-ND	2.02	1.77	1.52	CLB-153-11-B-3-A-B-A
20	432-1057-ND	2.20	1.93	1.65	CLB-203-11-B-3-A-B-A
25	432-1058-ND	2.20	1.93	1.65	CLB-253-11-B-3-A-B-A
30	432-1059-ND	2.20	1.93	1.65	CLB-303-11-B-3-A-B-A
35	432-1060-ND	2.74	2.40	2.06	CLB-353-11-B-3-A-B-A
7	432-1066-ND	1.98	1.74	1.49	CMB-073-11-C-3-N-B-A
12	432-1068-ND	1.58	1.39	1.19	CMB-123-11-C-3-N-B-A
Plastic Mounting Nut					
—	432-1123-ND	.16	.13	.09	8T1-E-113

Panel Mount Rocker Circuit Breakers

Specifications:
- **Rating:** 125-250VAC, 50VDC
- **Interrupting Capacity:** 1000 amps
- **Insulation Resistance:** 100MΩ

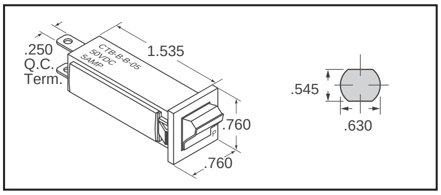

Current Amps	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
4	432-1125-ND	2.57	1.98	1.39	CTB-B-B-04
8	432-1128-ND	2.57	1.98	1.39	CTB-B-B-08
9	432-1129-ND	2.57	1.98	1.39	CTB-B-B-09
10	432-1130-ND	2.57	1.98	1.39	CTB-B-B-10
12	432-1131-ND	2.57	1.98	1.39	CTB-B-B-12
15	432-1132-ND	2.57	1.98	1.39	CTB-B-B-15

AMERICAN ELECTRICAL INC.

DIN Rail Mounted Circuit Breakers

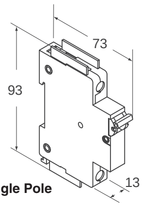

Single Pole

Features: • UL 1077 Approved • Din Rail Mounted • Compact 13mm width • Hydraulic-Magnetic technology

Technical Data: • Maximum Voltage: 277/480 50/60 Hz • Interrupting Cap: 5000A @ 120V, 1000A @ 277V, 1000A @ 480V • Dielectric Strength: 1960V 50/60 Hz • Insulation Resistance: 100MΩ • Operating Temperature Range: -40°C ~ 60°C

Current (Amps)	No. of Poles	Digi-Key Part No.	Price Each 1	10	50	100	American Electrical Part No.
1	1	288-1204-ND	15.00	13.50	12.00	10.50	C1A1P
2	1	288-1205-ND	15.00	13.50	12.00	10.50	C2A1P
5	1	288-1206-ND	15.00	13.50	12.00	10.50	C5A1P
10	1	288-1207-ND	15.00	13.50	12.00	10.50	C10A1P
15	1	288-1208-ND	15.00	13.50	12.00	10.50	C15A1P
20	1	288-1209-ND	15.00	13.50	12.00	10.50	C20A1P
25	1	288-1210-ND	15.00	13.50	12.00	10.50	C25A1P
30	1	288-1211-ND	15.00	13.50	12.00	10.50	C30A1P
40	1	288-1212-ND	15.00	13.50	12.00	10.50	C40A1P
50	1	288-1213-ND	15.00	13.50	12.00	10.50	C50A1P
1	2	288-1214-ND	30.00	27.00	24.00	21.00	C1A2P
2	2	288-1215-ND	30.00	27.00	24.00	21.00	C2A2P
5	2	288-1216-ND	30.00	27.00	24.00	21.00	C5A2P
10	2	288-1217-ND	30.00	27.00	24.00	21.00	C10A2P
15	2	288-1218-ND	30.00	27.00	24.00	21.00	C15A2P
20	2	288-1219-ND	30.00	27.00	24.00	21.00	C20A2P
25	2	288-1220-ND	30.00	27.00	24.00	21.00	C25A2P
30	2	288-1221-ND	30.00	27.00	24.00	21.00	C30A2P
40	2	288-1222-ND	30.00	27.00	24.00	21.00	C40A2P
50	2	288-1223-ND	30.00	27.00	24.00	21.00	C50A2P
1	3	288-1224-ND	45.00	40.50	36.00	31.50	C1A3P
2	3	288-1225-ND	45.00	40.50	36.00	31.50	C2A3P
5	3	288-1226-ND	45.00	40.50	36.00	31.50	C5A3P
10	3	288-1227-ND	45.00	40.50	36.00	31.50	C10A3P
15	3	288-1228-ND	45.00	40.50	36.00	31.50	C15A3P
20	3	288-1229-ND	45.00	40.50	36.00	31.50	C20A3P
25	3	288-1230-ND	45.00	40.50	36.00	31.50	C25A3P
30	3	288-1231-ND	45.00	40.50	36.00	31.50	C30A3P
40	3	288-1232-ND	45.00	40.50	36.00	31.50	C40A3P
50	3	288-1233-ND	45.00	40.50	36.00	31.50	C50A3P

E-T-A
Circuit Protection & Control

E-T-A circuit breakers for equipment are designed as safety critical items for protection during equipment failure. These circuit breakers may be required to operate just occasionally or very often during the life of the equipment and can confidently be reset by inexperienced personnel.

Thermal breakers respond in a similar manner as a slow blow fuse. All thermal breakers carry 100% rated current continuously and trip within one hour at 140% rating. Selection should be based on 125% of your maximum current required. Magnetic breakers are fast-acting devices which are highly tolerant to changes in ambient temperatures and sensitive to small overloads.

Combination Rocker/Circuit Breaker Switches

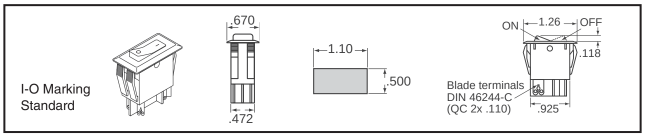

Miniaturized single pole rocker/thermal circuit breaker combining ON/OFF switching and extremely fast overload performance in a single component. Returning the rocker switch through the OFF position and back ON will reset the mechanism and restore the supply. Illuminated versions – 120VAC lamp **Applications:** Motors, transformers, solenoids, PCBs, hand-held machines, appliances, instrumentation. **Voltage rating:** AC 250V; DC 50 up to 5A UL/CSA **Typical life:** 30,000 operation cycles **Ambient temperature:** -40°C ~ 70°C **Insulation voltage:** 2.5kV **Dielectric strength:** AC 3,000V

Current (Amps)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
SP, Red Non-Illuminated Actuator					
1	302-1164-ND	13.10	10.07	9.49	1410-F110-P1F1-W14Q-1A
2	302-1165-ND	13.10	10.07	9.49	1410-F110-P1F1-W14Q-2A
3.15	302-1166-ND	13.10	10.07	9.49	1410-F110-P1F1-W14Q-3.15A
4	302-1167-ND	13.10	10.07	9.49	1410-F110-P1F1-W14Q-4A
5	302-1168-ND	13.10	10.07	9.49	1410-F110-P1F1-W14Q-5A
10	302-1169-ND	13.10	10.07	9.49	1410-F110-P1F1-W14Q-10A
SP, Red Illuminated Actuator					
1	302-1170-ND	14.28	11.23	10.39	1410-F110-P1F1-W14QE3-1A
2	302-1171-ND	14.28	11.23	10.39	1410-F110-P1F1-W14QE3-2A
3.15	302-1172-ND	14.28	11.23	10.39	1410-F110-P1F1-W14QE3-3.15A
4	302-1173-ND	14.28	11.23	10.39	1410-F110-P1F1-W14QE3-4A
5	302-1174-ND	14.28	11.23	10.39	1410-F110-P1F1-W14QE3-5A
10	302-1175-ND	14.28	11.23	10.39	1410-F110-P1F1-W14QE3-10A

Combination Rocker/Circuit Breaker Switches

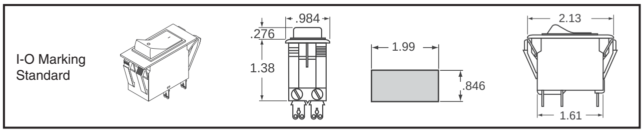

An extremely versatile range of rocker switch/thermal circuit breakers offering the choice of single pole, double pole with single pole protection, and double pole with protection on both poles. Designed for snap-in panel mounting. Magnetic trip coil for short circuit protection. **Applications:** Motors, transformers, solenoids, extra low voltage wiring systems, office machines, electro-medical equipment, power supplies, communications systems. **Voltage rating:** AC 240V; DC 50V **Typical life:** 50,000 operation cycles **Ambient temperature:** -30°C ~ 60°C **Insulation voltage:** 2.5kV **Dielectric strength:** AC 3,000V

Current (Amps)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
Single Pole, Black Actuator					
1	302-1176-ND	18.48	14.96	13.64	3120-F311-P7T1-W01D-1A
2	302-1177-ND	18.48	14.96	13.64	3120-F311-P7T1-W01D-2A
5	302-1178-ND	15.77	12.19	11.48	3120-F311-P7T1-W01D-5A
10	302-1179-ND	15.77	12.19	11.48	3120-F311-P7T1-W01D-10A
15	302-1180-ND	15.77	12.19	11.48	3120-F311-P7T1-W01D-15A
20	302-1181-ND	15.77	12.19	11.48	3120-F311-P7T1-W01D-20A
Single Pole, White Actuator					
1	302-1182-ND	18.48	14.96	13.64	3120-F311-P7T1-W02D-1A
2	302-1183-ND	18.48	14.96	13.64	3120-F311-P7T1-W02D-2A
5	302-1184-ND	15.77	12.19	11.48	3120-F311-P7T1-W02D-5A
10	302-1185-ND	15.77	12.19	11.48	3120-F311-P7T1-W02D-10A
15	302-1186-ND	15.77	12.19	11.48	3120-F311-P7T1-W02D-15A
20	302-1187-ND	15.77	12.19	11.48	3120-F311-P7T1-W02D-20A
Double Pole, Black Actuator					
0.5	302-1188-ND	31.32	25.70	24.09	3120-F321-P7T1-W01D-.5A
1	302-1189-ND	31.32	25.70	24.09	3120-F321-P7T1-W01D-1A
1.5	302-1190-ND	31.32	25.70	24.09	3120-F321-P7T1-W01D-1.5A
2	302-1191-ND	31.32	25.70	24.09	3120-F321-P7T1-W01D-2A
3	302-1193-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-3A
4	302-1194-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-4A
5	302-1195-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-5A
6	302-1196-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-6A
7	302-1197-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-7A
8	302-1198-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-8A
10	302-1200-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-10A
12	302-1201-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-12A
14	302-1202-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-14A
15	302-1203-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-15A
16	302-1204-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-16A
18	302-1205-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-18A
20	302-1206-ND	27.82	22.68	20.87	3120-F321-P7T1-W01D-20A
Double Pole, White Actuator					
0.5	302-1207-ND	31.32	25.70	24.09	3120-F321-P7T1-W02D-.5A
1	302-1208-ND	31.32	25.70	24.09	3120-F321-P7T1-W02D-1A
1.5	302-1209-ND	31.32	25.70	24.09	3120-F321-P7T1-W02D-1.5A
2	302-1210-ND	31.32	25.70	24.09	3120-F321-P7T1-W02D-2A
2.5	302-1211-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-2.5A
3	302-1212-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-3A
4	302-1213-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-4A
5	302-1214-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-5A
6	302-1215-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-6A
7	302-1216-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-7A
8	302-1217-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-8A
9	302-1218-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-9A
10	302-1219-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-10A
12	302-1220-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-12A
14	302-1221-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-14A
15	302-1222-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-15A
16	302-1223-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-16A
18	302-1224-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-18A
20	302-1225-ND	27.82	22.68	20.87	3120-F321-P7T1-W02D-20A

Auto and Marine Thermal Circuit Breakers

Thermal circuit breaker, with controlled self-resetting mechanism, specially suited to installation in inaccessible locations. Under overload conditions the circuit breaker contacts will open to protect the load circuit. A low current excitation circuit ensures that the contacts remain open avoiding the hazards of automatic reset operation.

Applications: Automotive and marine extra low voltage wiring systems and components, battery powered appliances. **Voltage rating:** DC 12V **Typical life:** 300 operations cycles **Ambient temperature:** -30°C ~ 60°C **Holding current:** < 0.6A **Reset time at 23°C:** <35 sec.

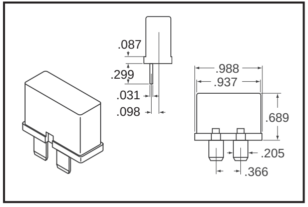

Current (Amps)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
12	302-1229-ND	11.57	8.90	8.38	1160-02-12A
15	302-1230-ND	11.57	8.90	8.38	1160-02-15A
20	302-1231-ND	11.57	8.90	8.38	1160-02-20A
30	302-1232-ND	11.57	8.90	8.38	1160-02-30A

ATO Automotive Circuit Breakers

Miniaturized single pole press-to-reset and automatic reset thermal circuit breaker designed for automotive fuse block installation. **Applications:** Extra low voltage wiring systems on all types of vehicles and marine craft. **Voltage rating:** 1610-92:DC 12V, 1610-21:DC 32V **Reset period:** ≤15 s **Ambient temp.:** -30°C ~ 60°C

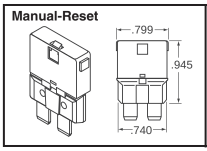

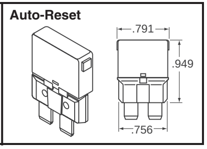

Current (Amps)	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
Manual Reset ATO Breaker					
6	302-1236-ND	13.31	10.47	9.68	1610-21-6A
8	302-1235-ND	13.31	10.47	9.68	1610-21-8A
10	302-1237-ND	13.31	10.47	9.68	1610-21-10A
15	302-1234-ND	13.31	10.47	9.68	1610-21-15A
20	302-1233-ND	13.31	10.47	9.68	1610-21-20A
25	302-1238-ND	13.31	10.47	9.68	1610-21-25A
30	302-1239-ND	13.31	10.47	9.68	1610-21-30A
Auto Reset ATO Breaker					
6	302-1240-ND	13.31	10.47	9.68	1610-92-6A
15	302-1243-ND	13.31	10.47	9.68	1610-92-15A
20	302-1244-ND	13.31	10.47	9.68	1610-92-20A
25	302-1245-ND	13.31	10.47	9.68	1610-92-25A
30	302-1246-ND	13.31	10.47	9.68	1610-92-30A

125 Ampere Hydraulic-Magnetic Circuit Breaker - 8345 Series

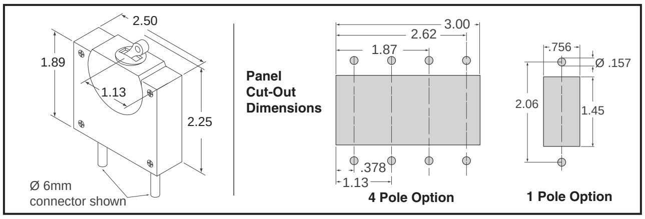

Single or multipole hydraulic-magnetic circuit breakers with trip-free mechanism and toggle actuation. Award-winning magnetic circuit breaker with the highest amp rating for its frame size NO HOT rivets. **Features:** • Voltage Ranges: 120VAC to 480VAC, 80VDC • Trip Characteristic: Medium Delay AC/DC • Typical Life: 10,000 operations at 1 x I_N • Ambient Temperature: -40°C ~ 85°C • Insulation Voltage: 2.5kV/2 • Dielectric Strength: 1,500-3,000 VAC • Agency Approvals: UL489 upon request, UL 1077, VDE (EN60394) • Material Color: Black actuator, front plate and base

Poles	Terminal Type	Digi-Key Part No.	Price Each 1	10	25	E-T-A Part No.
1	M6 Threaded Stud*	302-1303-ND	45.13	36.82	34.44	8345-C01A-U3M0-DB1A1B-125A
1	6mm Dia. Round Conn.	302-1304-ND	43.72	35.67	33.37	8345-C01A-R0M0-DB1A1B-125A
2	M6 Threaded Stud*	302-1305-ND	85.84	73.58	68.67	8345-C02A-U3M0-DB1A1B-125A
2	6mm Dia. Round Conn.	302-1306-ND	83.25	71.36	66.60	8345-C02A-R0M0-DB1A1B-125A
3	M6 Threaded Stud*	302-1307-ND	120.70	102.95	99.40	8345-C03A-U3M0-DB1A1B-125A
3	6mm Dia. Round Conn.	302-1308-ND	118.99	99.74	96.30	8345-C03A-R0M0-DB1A1B-125A

* Washer and nut included, bulk shipped

E-T-A® Circuit Protection & Control

Thermal Circuit Breakers

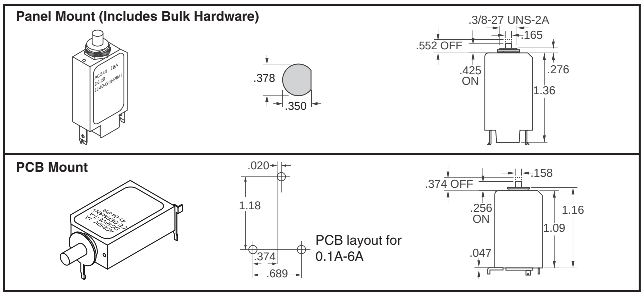

Miniaturized single pole thermal circuit breaker with push-to-reset tease free, trip-free, snap action mechanism. Approved to CBE standard EN 60934 (IEC 60934). Single pole, push to reset, black in color. **Applications:** motors, transformers, solenoids, printed circuit boards, hand-held machines and appliances, marine applications, caravans. **Voltage rating:** AC 240V; DC 48V **Ambient temperature:** -20°C ~ 60°C **Insulation voltage:** 2.5kV **Dielectric strength:** AC 3,000V

Current	Digi-Key		Price Each		E-T-A
(Amps)	Part No.	1	10	25	Part No.
Thermal Breaker - Miniature Panel Mount					
0.1	302-1000-ND	11.72	9.02	8.50	106-M2-P10-0.1A
0.2	302-1001-ND	11.72	9.02	8.50	106-M2-P10-0.2A
0.3	302-1002-ND	11.72	9.02	8.50	106-M2-P10-0.3A
0.4	302-1003-ND	11.72	9.02	8.50	106-M2-P10-0.4A
0.5	302-1004-ND	11.72	9.02	8.50	106-M2-P10-0.5A
0.6	302-1005-ND	11.72	9.02	8.50	106-M2-P10-0.6A
0.8	302-1006-ND	11.72	9.02	8.50	106-M2-P10-0.8A
1	302-1007-ND	11.72	9.02	8.50	106-M2-P10-1A
1.2	302-1008-ND	11.72	9.02	8.50	106-M2-P10-1.2A
1.5	302-1009-ND	11.72	9.02	8.50	106-M2-P10-1.5A
1.8	302-1010-ND	11.72	9.02	8.50	106-M2-P10-1.8A
2	302-1011-ND	11.72	9.02	8.50	106-M2-P10-2A
2.5	302-1012-ND	11.72	9.02	8.50	106-M2-P10-2.5A
3	302-1013-ND	11.72	9.02	8.50	106-M2-P10-3A
4	302-1015-ND	11.72	9.02	8.50	1140-G111-P1M1-4A
5	302-1016-ND	11.72	9.02	8.50	1140-G111-P1M1-5A
7	302-1018-ND	11.72	9.02	8.50	1140-G111-P1M1-7A
8	302-1019-ND	11.72	9.02	8.50	1140-G111-P1M1-8A
10	302-1020-ND	11.72	9.02	8.50	1140-G111-P1M1-10A
12	302-1021-ND	11.72	9.02	8.50	1140-G111-P1M1-12A
15	302-1023-ND	11.72	9.02	8.50	1140-G111-P1M1-15A
16	302-1024-ND	11.72	9.02	8.50	1140-G111-P1M1-16A
Thermal Breaker - Horizontal PC Mount					
0.5	302-1092-ND	11.72	9.02	8.50	104-PR-0.5A
1	302-1095-ND	11.72	9.02	8.50	104-PR-1A
1.2	302-1096-ND	11.72	9.02	8.50	104-PR-1.2A
2	302-1099-ND	11.72	9.02	8.50	104-PR-2A
3	302-1101-ND	11.72	9.02	8.50	104-PR-3A
5	302-1105-ND	11.72	9.02	8.50	104-PR-5A
7	302-1107-ND*	11.72	9.02	8.50	104-PR-7A
8	302-1108-ND*	11.72	9.02	8.50	104-PR-8A
10	302-1109-ND*	11.72	9.02	8.50	104-PR-10A

* Requires different PCB layout

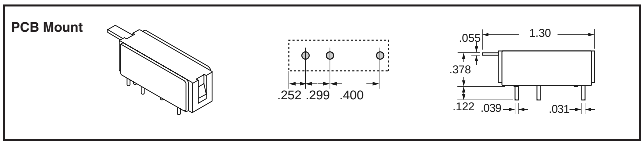

Single pole press-to-reset thermal circuit breaker with extremely fast overload switching performance. Miniaturized construction minimizes PCB real estate required. **Applications:** transformers, solenoids, PCB's, hand-held machines, appliances, instrumentation. **Voltage rating:** AC 250V; DC 50V UL/CSA **Typical Life:** 300 operation cycles **Ambient temperature:** -20°C ~ 100°C **Insulation voltage:** 2.5kV **Dielectric strength:** AC 1,500V

Current	Digi-Key		Price Each		E-T-A
(Amps)	Part No.	1	10	25	Part No.
Thermal Breaker - Horizontal PC Mount					
0.63	302-1025-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-0.63A
0.8	302-1026-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-0.8A
1	302-1027-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-1A
1.25	302-1028-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-1.25A
1.5	302-1029-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-1.5A
2	302-1032-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-2A
2.5	302-1033-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-2.5A
3.15	302-1034-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-3.15A
4	302-1035-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-4A
4.5	302-1036-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-4.5A
5	302-1037-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-5A
6.3	302-1038-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-6.3A
8	302-1039-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-8A
10	302-1031-ND	8.57	6.43	6.07	1410-L210-L2F1-S02-10A

Thermal Circuit Breakers - 1658 Series

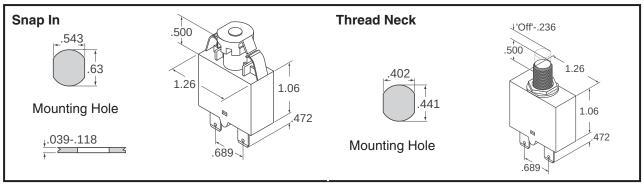

Very cost effective design to meet international requirements. No exposed metal parts, which are, or could become, current carrying except for terminals, NO HOT rivets. Manual reset, cycling trip free mechanism. **Features:** • Voltage Rating: 240VAC; 28VDC • Terminals: Q.C. .250" blade • Typical Life: 1,000 operations at 2 x I_N • Ambient Temperature: -20 ~ 60°C, <= 7A -20°C ~ 40°C • Insulation Voltage: 2.5kV • Dielectric Strength: AC 3,000V • Agency Approvals: UL, CSA, VDE (EN 60934) see data sheet for specific approvals per amperage rating.

Current	Digi-Key		Price Each		E-T-A
(Amps)	Part No.	1	10	25	Part No.
Snap In					
5	302-1247-ND	2.95	2.00	1.81	1658-F01-00-P10-5A
6	302-1248-ND	2.95	2.00	1.81	1658-F01-00-P10-6A
7	302-1249-ND	2.95	2.00	1.81	1658-F01-00-P10-7A
8	302-1250-ND	2.95	2.00	1.81	1658-F01-00-P10-8A
10	302-1251-ND	2.95	2.00	1.81	1658-F01-00-P10-10A
15	302-1252-ND	2.95	2.00	1.81	1658-F01-00-P10-15A
20	302-1253-ND	2.95	2.00	1.81	1658-F01-00-P10-20A
25	302-1254-ND	3.00	2.00	1.85	1658-F01-00-P10-25A
30	302-1255-ND	3.15	2.10	1.95	1658-F01-00-P10-30A
35	302-1256-ND	3.15	2.10	1.95	1658-F01-00-P10-35A
3/8" - 27 Thread Neck with PAL Nut					
5	302-1257-ND	2.95	2.00	1.81	1658-G21-01-P10-5A
6	302-1258-ND	2.95	2.00	1.81	1658-G21-01-P10-6A
7	302-1259-ND	2.95	2.00	1.81	1658-G21-01-P10-7A
8	302-1260-ND	2.95	2.00	1.81	1658-G21-01-P10-8A
10	302-1261-ND	2.95	2.00	1.81	1658-G21-01-P10-10A
12	302-1262-ND	2.95	2.00	1.81	1658-G21-01-P10-12A
13	302-1263-ND	2.95	2.00	1.81	1658-G21-01-P10-13A
15	302-1264-ND	2.95	2.00	1.81	1658-G21-01-P10-15A
16	302-1265-ND	2.95	2.00	1.81	1658-G21-01-P10-16A
20	302-1266-ND	3.00	2.00	1.85	1658-G21-01-P10-20A
25	302-1267-ND	3.00	2.00	1.85	1658-G21-01-P10-25A
30	302-1268-ND	3.15	2.10	1.95	1658-G21-01-P10-30A
35	302-1269-ND	3.15	2.10	1.95	1658-G21-01-P10-35A
7/16" - 28 Thread Neck with PAL and Knurled Nuts					
5	302-1270-ND	2.95	2.00	1.81	1658-G41-02-P10-5A
6	302-1271-ND	2.95	2.00	1.81	1658-G41-02-P10-6A
7	302-1272-ND	2.95	2.00	1.81	1658-G41-02-P10-7A
8	302-1273-ND	2.95	2.00	1.81	1658-G41-02-P10-8A
10	302-1274-ND	2.95	2.00	1.81	1658-G41-02-P10-10A
12	302-1275-ND	2.95	2.00	1.81	1658-G41-02-P10-12A
13	302-1276-ND	2.95	2.00	1.81	1658-G41-02-P10-13A
15	302-1277-ND	2.95	2.00	1.81	1658-G41-02-P10-15A
16	302-1278-ND	2.95	2.00	1.81	1658-G41-02-P10-16A
20	302-1279-ND	2.95	2.00	1.81	1658-G41-02-P10-20A
25	302-1280-ND	2.95	2.00	1.81	1658-G41-02-P10-25A
30	302-1281-ND	3.15	2.10	1.95	1658-G41-02-P10-30A
35	302-1282-ND	3.15	2.10	1.95	1658-G41-02-P10-35A

Push-Push Switch/Thermal Circuit Breakers - 2-5700 Series

Single pole thermal circuit breaker with press-to-reset, tease-free, trip-free, snap action mechanism, NO HOT rivets. The 2-5700 is a push-push switch/circuit breaker. Approved to CBE standard EN 60934 (IEC 60934).

Features: • Voltage Rating: 250VAC; 28VDC (UL:50VDC) • Typical Life: 5,000 operations at 2 x I_N • Ambient Temperature: -20 ~ 60°C • Insulation Voltage: 2.5kV • Dielectric Strength: AC 3,000V • Agency Approvals: UL, CSA, VDE (EN 60934), Semko (EN60934), SEV, LRoS, BV (see data sheet for specific approvals per amperage rating)

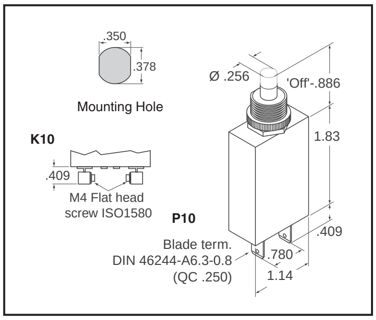
.350
.378
Mounting Hole
Ø .256
'Off'-.886
1.83
K10
.409
M4 Flat head screw ISO1580
P10
Blade term. DIN 46244-A6.3-0.8 (QC .250)
.409
.780
1.14

Current	Digi-Key		Price Each		E-T-A
(Amps)	Part No.	1	10	25	Part No.
.250" Q.C. Blade Terminals					
1	302-1293-ND	26.52	21.62	19.89	2-5700-IG1-P10-DD-1A
2	302-1294-ND	26.52	21.62	19.89	2-5700-IG1-P10-DD-2A
3	302-1295-ND	26.52	21.62	19.89	2-5700-IG1-P10-DD-3A
4	302-1296-ND	26.52	21.62	19.89	2-5700-IG1-P10-DD-4A
5	302-1297-ND	26.52	21.62	19.89	2-5700-IG1-P10-DD-5A
6	302-1298-ND	26.52	21.62	19.89	2-5700-IG1-P10-DD-6A
10	302-1299-ND	13.66	10.75	9.94	2-5700-IG1-P10-DD-10A
15	302-1300-ND	26.52	21.62	19.89	2-5700-IG1-P10-DD-15A
20	302-1301-ND	26.52	21.62	19.89	2-5700-IG1-P10-DD-20A
25	302-1302-ND	26.52	21.62	19.89	2-5700-IG1-P10-DD-25A
M4 Screw Terminals					
1	302-1283-ND	14.78	11.63	10.76	2-5700-IG1-K10-DD-1A
2	302-1284-ND	14.78	11.63	10.76	2-5700-IG1-K10-DD-2A
3	302-1285-ND	14.78	11.63	10.76	2-5700-IG1-K10-DD-3A
4	302-1286-ND	14.78	11.63	10.76	2-5700-IG1-K10-DD-4A
5	302-1287-ND	14.78	11.63	10.76	2-5700-IG1-K10-DD-5A
6	302-1288-ND	14.01	11.02	10.20	2-5700-IG1-K10-DD-6A
10	302-1289-ND	14.01	11.02	10.20	2-5700-IG1-K10-DD-10A
15	302-1290-ND	14.01	11.02	10.20	2-5700-IG1-K10-DD-15A
20	302-1291-ND	14.01	11.02	10.20	2-5700-IG1-K10-DD-20A
25	302-1292-ND	14.01	11.02	10.20	2-5700-IG1-K10-DD-25A

Panasonic® Thermal Cutoffs (TCO) / Thermal-Links — EYP Type

Features: • **Small and Insulation Type:** TCO is compact and insulated, featuring quick temperature response, and mountable in a small space without insulation or protection • **High Reliability:** TCO opens reliably when the equipment becomes abnormal, and is not resettable • **Solid Structure:** Unique formed lead provides reliable TCO connection and provides easy assembly handling. (Axial lead type only) • **Non-Cadmium Alloy:** TCO uses specially selected non-cadmium alloy • **Thin Type:** Thickness is less than 1mm. Available for spot welding.

Recommended Applications: Transformers, solenoids, ventilation fan, electric fans, small electric motors, dryers, gas home appliances, fluorescent lights, electric shavers, adaptors, heating devices, ICs, batteries, etc. The TCO can be used for overheating protection.

Approved Safety Standards:
▽ (Japan): 33-xxx (see chart)
UL (USA): E60271
CSA (Canada): LR67163
VDE (Germany): N Series: 4811.6-1171-0001; F Series: 4811.6-4510-1026; E Series: 4811.6-4510-1030
BEAB (U.K.): N Series: C0736; F Series: C0738; E Series: C0739

Series N, F and E Axial Lead Type

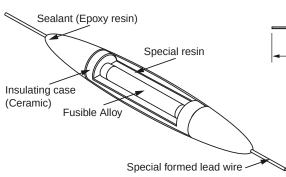

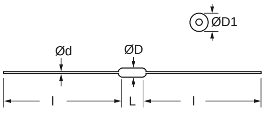

Dimensions (mm)	L	øD	øD1	l	ød
N Series	9.0	2.5	3.0	38	0.60
F Series	6.0	1.85	2.2	38	0.53
E Series	5.0	1.5	1.8	38	0.53

Series MT — Thin Type

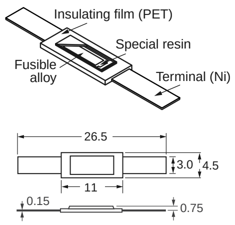

Type No. of Approved Standards	Rated Functioning Temp.*1 (°C)	Function-ing Temp.*2 (°C)	Maximum Operating Temp.*3 (°C)	Holding Temp.*4 (°C)	Maximum Temp. (°C)*5		Electrical Rating			Approved Safety Standards					Digi-Key Part No.	Price Each			Panasonic Part No.
					UL, VDE, BEAB	CSA	AC/ DC	Amp (A)	Volt (V)	▽	UL	CSA	VDE	BEAB		1	10	100	
N Series																			
N082	86	82±2	52	56	200	150	AC	3.0	125	33-627	○	○	○	—	P10917-ND	.45	.41	.38	EYP-2BN082
			60	60			AC	2.0	250		○	○	○	○					
			45	50			DC	4.0	50		○	○	○	—					
N088	92	88±2	56	60	200	—	AC	3.0	125	33-627	○	—	—	—	P10918-ND	.45	.41	.38	EYP-2BN088
			62	65			AC	2.0	250		○	—	—	—					
			47	52			DC	4.0	50		○	—	—	—					
N098	102	98±2	65	70	200	150	AC	3.0	125	33-632	○	○	○	—	P10919-ND	.45	.41	.38	EYP-2BN098
			75	76			AC	2.0	250		○	○	○	○					
			55	60			DC	4.0	50		○	○	○	—					
N109	114	110±3	76	86	200	150	AC	3.0	125	33-634	○	○	○	—	P10920-ND	.45	.41	.38	EYP-2BN109
			80	90			AC	2.0	250		○	○	○	○					
			65	74			DC	5.0	50		○	○	○	—					
N110	115	110^{+3}_{-2}	76	86	200	150	AC	3.0	125	33-634	○	○	○	—	P10921-ND	.45	.41	.38	EYP-2BN110
			80	90			AC	2.0	250		○	○	○	—					
			65	74			DC	5.0	50		○	○	○	—					
N124	130	126±2	90	105	200	180	AC	3.0	125	33-619	○	○	○	—	P10922-ND	.45	.41	.38	EYP-2BN124
			94	105			AC	2.0	250		○	○	○	○					
			80	94			DC	5.0	50		○	○	○	—					
N126	133	128±2	92	108	200	180	AC	3.0	125	33-619	○	○	○	—	P10923-ND	.45	.41	.38	EYP-2BN126
			96	108			AC	2.0	250		○	○	○	○					
			82	96			DC	5.0	50		○	○	○	—					
N135	140	136±2	99	115	200	180	AC	3.0	125	33-619	○	○	○	—	P10924-ND	.45	.41	.38	EYP-2BN135
			103	115			AC	2.0	250		○	○	○	○					
			80	90			DC	6.0	50		○	○	○	—					
N143	145	141±2	105	115	200	180	AC	3.0	125	33-621	○	○	○	—	P10925-ND	.45	.41	.38	EYP-2BN143
			110	120			AC	2.0	250		○	○	○	○					
			80	90			DC	6.0	50		○	○	○	—					
N163	168	163^{+4}_{-2}	120	130	200		AC	3.0	125	33-623	○	○	○	—	P10926-ND	.45	.41	.38	EYP-2BN163
			120	135			AC	2.0	250		○	○	○	○					
			90	100			DC	6.0	50		○	○	○	—					
N183	188	183^{+4}_{-2}	120	140	200		AC	3.0	125	33-625	○	○	○	—	P10927-ND	.45	.41	.38	EYP-2BN183
			120	140			AC	2.0	250		○	○	○	○					
			120	130			DC	6.0	50		○	○	○	—					
F Series																			
F102	102	98±2	70	74	200	150	AC	2.0	125	33-632	○	○	○	—	P10911-ND	.45	.41	.38	EYP-1BF102
			75	76			AC	1.0	250		○	○	○	○					
			55	60			DC	3.5	50		○	○	○	—					
F115	115	110^{+3}_{-2}	76	90	200	150	AC	2.0	125	33-634	○	○	○	—	P10912-ND	.45	.41	.38	EYP-1BF115
			80	90			AC	1.0	250		○	○	○	○					
			70	80			DC	4.0	50		○	○	○	—					
F130	130	126±2	90	105	200	180	AC	2.0	125	33-619	○	○	○	—	P10913-ND	.45	.41	.38	EYP-1BF130
			94	105			AC	1.0	250		○	○	○	○					
			74	90			DC	4.5	50		○	○	○	—					
F133	133	128±2	92	108	200	180	AC	2.0	125	33-619	○	○	○	—	P10914-ND	.45	.41	.38	EYP-1BF133
			96	108			AC	1.0	250		○	○	○	○					
			76	92			DC	4.5	50		○	○	○	—					
F139	139	135±3	99	115	200	180	AC	2.0	125	33-619	○	○	○	—	P10915-ND	.45	.41	.38	EYP-1BF139
			103	115			AC	1.0	250		○	○	○	○					
			80	95			DC	5.0	50		○	○	○	—					
F168	168	163^{+4}_{-2}	120	135	200		AC	2.0	125	33-623	○	○	○	—	P10916-ND	.45	.41	.38	EYP-1BF168
			120	142			AC	1.0	250		○	○	○	—					
			95	110			DC	5.0	50		○	○	○	—					
E Series																			
E102	102	98±2	70	78	200	150	AC	1.5	125	33-632	○	○	○	—	P10906-ND	.45	.41	.38	EYP-05BE102
			75	80			AC	0.5	250		○	○	○	○					
			65	70			DC	3.0	50		○	○	○	—					
E115	115	110±2	76	93	200	150	AC	1.5	125	33-634	○	○	○	—	P10907-ND	.45	.41	.38	EYP-05BE115
			80	95			AC	0.5	250		○	○	○	○					
			70	84			DC	3.0	50		○	○	○	—					
E130	130	126±2	90	112	200	180	AC	1.5	125	33-619	○	○	○	—	P10908-ND‡	.45	.41	.38	EYP-05BE130
			94	112			AC	0.5	250		○	○	○	○					
			83	102			DC	3.0	50		○	○	○	—					
E133	133	128±2	92	115	200	180	AC	1.5	125	33-619	○	○	○	—	P10909-ND	.45	.41	.38	EYP-05BE133
			96	115			AC	0.5	250		○	○	○	○					
			85	105			DC	3.0	50		○	○	○	—					
E139	139	135±3	99	120	200	180	AC	1.5	125	33-619	○	○	○	—	P10910-ND‡	.45	.41	.38	EYP-05BE139
			103	120			AC	0.5	250		○	○	○	○					
			92	110			DC	3.0	50		○	○	○	—					
MT Series †																			
MT092	92	89±2	55	60	150		DC	2.0	50	—	○	—	—	—	P10928-ND	.89	.82	.75	EYP-2MT092
MT092A															P10929-ND	.89	.82	.75	EYP-2MT092A
MT092B															P10930-ND	.89	.82	.75	EYP-2MT092B
MT098	98	94±2	60	65	150		DC	2.0	50	—	○	—	—	—	P10931-ND	.89	.82	.75	EYP-2MT098
MT098A															P10932-ND	.89	.82	.75	EYP-2MT098A
MT098B															P10933-ND	.89	.82	.75	EYP-2MT098B
MT102	102	98±2	65	70	150		DC	2.0	50	—	○	—	—	—	P10934-ND	.89	.82	.75	EYP-2MT102
MT102A															P10935-ND	.89	.82	.75	EYP-2MT102A
MT102B															P10936-ND	.89	.82	.75	EYP-2MT102B

NOTES:

1. **Rated Functioning Temperature** (UL: TF, CSA, VDE, BEAB: Tf). The temperature at which a TCO changes its state of conductivity to open circuit with loading detection current only. Tolerance: ▽ : ±7°C; UL, CSA, VDE, BEAB: 0 / -10°C
2. **Functioning Temperature**: (Fusing-off temperature): The functioning temperature at which a TCO changes its state of conductivity to open circuit in the ambient air oven which increases temperature by 1°C per minute and with loading detection current of 0.1A or less.
3. **Maximum Operating Temperature:** The maximum temperature at which a TCO can be maintained while conducting rated current for 3000 h.
4. **Holding Temperature** (UL: TH, CSA: Th, VDE, BEAB: Tc). The maximum temperature at which a TCO can be maintained while conducting rated current for 168h which will not cause a change in state of conductivity to open circuit.
5. **Maximum Temperature Limit** (UL: TM, CSA, VDE, BEAB: Tm) The maximum temperature at which a TCO can maintain its mechanical and electrical properties without closing again for 10 minutes after a TCO has changed its state of conductivity.

‡ P10908-ND and P10910-ND are additionally approved for UL, on DC50V 5A.
† Std. DC Resistance is <15mΩ, A = <16mΩ, B = <17mΩ.

Panasonic Surface Mount Momentary Pushbutton Switches

CIRCUIT DIAGRAM 1

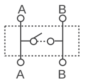

CIRCUIT DIAGRAM 2

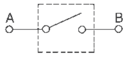

Fig. 1

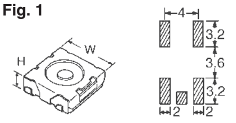

With or Without Ground Terminal

Fig. 2

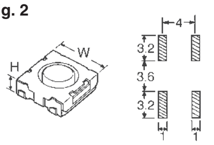

Fig. 3

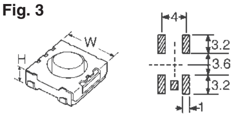

With or Without Grounding Terminal

Fig. 4

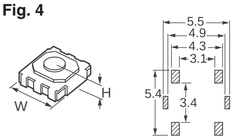

Fig. 5

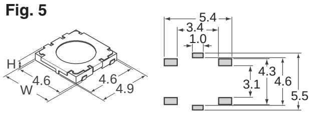

Fig. 6

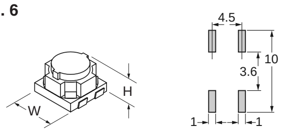

Fig. 7

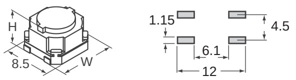

Fig. 8

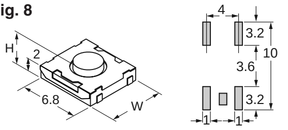

With or Without Grounding Terminal

Fig. 9

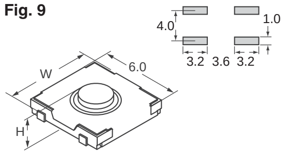

Fig. 10

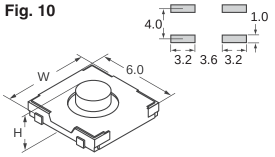

Fig. 11

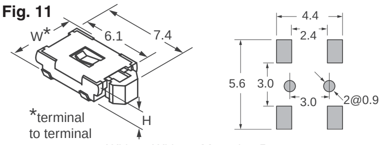

*terminal to terminal

With or Without Mounting Boss

Fig. 12

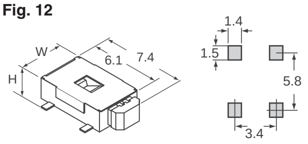

Fig. 13

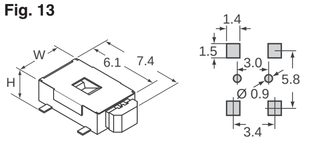

Fig. 14

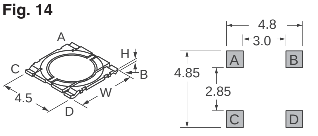

Fig. 15

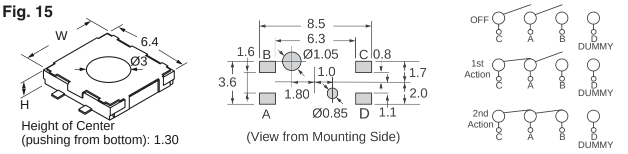

Height of Center (pushing from bottom): 1.30

(View from Mounting Side)

Fig.	Description	Circuit Dia.	Dimensions (mm)		Operating Force	Voltage Rating (VDC)	Current Rating (mA)	Oper-ating Life	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
			H	W						1	10	100		Size	Pricing	
1	Light Touch Switch Standard	1	2	6.2	130gf	15	20	100K	P8000SCT-ND	1.11	.84	.73	P8000STR-ND	4,000	417.00/M	EVQ-QFA02K
	L.T. Switch Standard with Ground Terminal	1	2	6.2	130gf	15	20	100K	P8001SCT-ND	1.10	.83	.72	P8001STR-ND	4,000	411.00/M	EVQ-QFU02K
	Light Touch Switch Standard	1	2	6.2	130gf	15	20	100K	P12246SCT-ND	1.18	.89	.77	P12246STR-ND	4,000	443.00/M	EVQ-QFY02K
2	L.T. Switch Std. with Actuator/Solvent Washable	1	3.1	6.4	130gf	15	20	100K	P8002SCT-ND	.86	.65	.56	P8002STR-ND	2,000	330.00/M	EVQ-PHP03T
3	Light Touch Switch Standard with Actuator	1	3.1	6.4	160gf	15	20	100K	P12248SCT-ND	.98	.74	.64	P12248STR-ND	2,000	368.00/M	EVQ-PHV03T
	Light Touch Switch Standard with Actuator	1	3.1	6.4	260gf	15	20	50K	P12249SCT-ND	1.13	.85	.74	P12249STR-ND	2,000	425.00/M	EVQ-PHU03T
	L.T. Switch Std w/Actuator w/Ground Term.	1	3.1	6.4	130gf	15	20	100K	P12250SCT-ND	1.13	.85	.74	P12250STR-ND	2,000	425.00/M	EVQ-PHL03T
	L.T. Switch Std w/Actuator w/Ground Term.	1	3.1	6.4	160gf	15	20	100K	P12251SCT-ND	1.13	.85	.74	P12251STR-ND	2,000	425.00/M	EVQ-PHN03T
	L.T. Switch Std w/Actuator w/Ground Term.	1	3.1	6.4	260gf	15	20	50K	P12252SCT-ND	1.13	.85	.74	P12252STR-ND	2,000	425.00/M	EVQ-PHK03T
4	L.T. Switch Rugged Design Low Profile	1	1.5	4.9	100gf	12	50	500K	P8045SCT-ND	1.11	.83	.72	P8045STR-ND	5,000	395.00/M	EVQ-PLDA15
	L.T. Switch Rugged Design Low Profile	1	1.5	4.9	160gf	12	50	500K	P8046SCT-ND	.91	.69	.60	P8046STR-ND	5,000	325.00/M	EVQ-PLHA15
	L.T. Switch Rugged Design Low Profile	1	1.5	4.9	260gf	12	50	500K	P8047SCT-ND	1.14	.86	.75	P8047STR-ND	5,000	408.00/M	EVQ-PLMA15
5	L.T. Switch Top Push without Actuator	1	0.8	4.9	100gf	15	20	500K	P12274SCT-ND	.89	.67	.59	P12274STR-ND	5,000	312.00/M	EVQ-PLBA08
	L.T. Switch Top Push without Actuator	1	0.8	4.9	160gf	15	20	500K	P12275SCT-ND	.89	.67	.59	P12275STR-ND	5,000	312.00/M	EVQ-PLFA08
	L.T. Switch Top Push without Actuator	1	0.8	4.9	260gf	15	20	200K	P12276SCT-ND	.91	.69	.60	P12276STR-ND	5,000	319.00/M	EVQ-PLKA08
6	Light Touch Switch Long Travel	1	5	6.0	200gf	12	50	100K	P12245SCT-ND	1.38	1.04	.90	P12245STR-ND	2,000	518.00/M	EVQ-P1F05M
	Light Touch Switch Long Travel	1	5	6.0	220gf	12	50	100K	P12244SCT-ND	1.38	1.04	.90	P12244STR-ND	2,000	518.00/M	EVQ-P1K05M
	Light Touch Switch Long Travel	1	5	6.0	250gf	12	50	30K	P10888SCT-ND	1.38	1.04	.90	P10888STR-ND	2,000	532.00/M	EVQ-P1D05M
	Light Touch Switch Long Travel	1	5	6.0	350gf	12	50	30K	P10889SCT-ND	1.38	1.04	.90	P10889STR-ND	2,000	532.00/M	EVQ-P1B05M
7	Light Touch Switch Long Travel	1	6.5	9.9	500gf	12	50	100K	P12969SCT-ND	1.52	1.14	.99	P12969STR-ND	1,000	569.00	EVQ-Q1E06K
8	Light Touch Switch Standard with Actuator	1	2	6.2	130gf	15	20	100K	P10885SCT-ND	.69	.52	.45	P10885STR-ND	4,000	245.00/M	EVQ-QWP01W
	Light Touch Switch Standard with Actuator	1	2	6.2	160gf	15	20	100K	P12255SCT-ND	.96	.73	.63	P12255STR-ND	4,000	361.00/M	EVQ-QWS01W
	Light Touch Switch Standard with Actuator	1	2	6.2	260gf	15	20	10K	P12257SCT-ND	.96	.73	.63	P12257STR-ND	4,000	361.00/M	EVQ-QWT01W
	Light Touch Switch Standard with Actuator	1	2.5	6.2	130gf	15	20	100K	P12253SCT-ND	.96	.73	.63	P12253STR-ND	2,000	361.00/M	EVQ-QWP02W
	Light Touch Switch Standard with Actuator	1	2.5	6.2	160gf	15	20	100K	P10886SCT-ND	.69	.52	.45	P10886STR-ND	2,000	264.00/M	EVQ-QWS02W
	Light Touch Switch Standard with Actuator	1	2.5	6.2	260gf	15	20	10K	P12258SCT-ND	.96	.73	.63	P12258STR-ND	2,000	361.00/M	EVQ-QWT02W
	Light Touch Switch Standard with Actuator	1	3.1	6.2	130gf	15	20	100K	P12254SCT-ND	.96	.73	.63	P12254STR-ND	2,000	361.00/M	EVQ-QWP03W
	Light Touch Switch Standard with Actuator	1	3.1	6.2	160gf	15	20	100K	P12256SCT-ND	.96	.73	.63	P12256STR-ND	2,000	361.00/M	EVQ-QWS03W
	Light Touch Switch Standard with Actuator	1	3.1	6.2	260gf	15	20	100K	P10887SCT-ND	.69	.52	.45	P10887STR-ND	2,000	264.00/M	EVQ-QWT03W
	L.T. Switch Std w/Actuator w/Ground Term.	1	2	6.2	130gf	15	20	100K	P12259SCT-ND	1.10	.83	.72	P12259STR-ND	4,000	412.00/M	EVQ-QWM01W
	L.T. Switch Std w/Actuator w/Ground Term.	1	2	6.2	160gf	15	20	100K	P12262SCT-ND	1.10	.83	.72	P12262STR-ND	4,000	412.00/M	EVQ-QWN01W
	L.T. Switch Std w/Actuator w/Ground Term.	1	2	6.2	260gf	15	20	10K	P12265SCT-ND	1.10	.83	.72	P12265STR-ND	4,000	412.00/M	EVQ-QWK01W
	L.T. Switch Std w/Actuator w/Ground Term.	1	2.5	6.2	130gf	15	20	100K	P12260SCT-ND	1.10	.83	.72	P12260STR-ND	2,000	412.00/M	EVQ-QWM02W
	L.T. Switch Std w/Actuator w/Ground Term.	1	2.5	6.2	160gf	15	20	100K	P12263SCT-ND	1.10	.83	.72	P12263STR-ND	2,000	412.00/M	EVQ-QWN02W
	L.T. Switch Std w/Actuator w/Ground Term.	1	2.5	6.2	260gf	15	20	10K	P12266SCT-ND	1.10	.83	.72	P12266STR-ND	2,000	412.00/M	EVQ-QWK02W
	L.T. Switch Std w/Actuator w/Ground Term.	1	3.1	6.2	130gf	15	20	100K	P12261SCT-ND	1.10	.83	.72	P12261STR-ND	2,000	412.00/M	EVQ-QWM03W
	L.T. Switch Std w/Actuator w/Ground Term.	1	3.1	6.2	160gf	15	20	100K	P12264SCT-ND	1.10	.83	.72	P12264STR-ND	2,000	412.00/M	EVQ-QWN03W
	L.T. Switch Std w/Actuator w/Ground Term.	1	3.1	6.2	260gf	15	20	10K	P12267SCT-ND	1.10	.83	.72	P12267STR-ND	2,000	412.00/M	EVQ-QWK03W
9	Light Touch Switch Overstroke Travel	1	2.5	6.6	60gf	15	20	2,000K	P12965SCT-ND	.52	.39	.34	P12965STR-ND	2,000	194.00/M	EVQ-P0N02B
	L.T. Switch Overstroke Travel w/Ground Term.	1	2.5	6.6	60gf	15	20	2,000K	P12966SCT-ND	.52	.39	.34	P12966STR-ND	2,000	194.00/M	EVQ-P0P02B
	Light Touch Switch Overstroke Travel	1	2.5	6.6	100gf	15	20	1,000K	P12967SCT-ND	.52	.39	.34	P12967STR-ND	2,000	194.00/M	EVQ-P0Q02Q
	L.T. Switch Overstroke Travel w/Ground Term.	1	2.5	6.6	100gf	15	20	1,000K	P12968SCT-ND	.52	.39	.34	P12968STR-ND	2,000	194.00/M	EVQ-P0S02Q
10	Light Touch Switch Short Push Travel	1	2.0	6.6	50gf	15	20	2,000K	P12930SCT-ND	.40	.30	.26	P12930STR-ND	4,000	149.00/M	EVQ-Q2B01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	50gf	15	20	2,000K	P12931SCT-ND	.39	.30	.26	P12931STR-ND	2,000	148.00/M	EVQ-Q2B02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	50gf	15	20	2,000K	P12932SCT-ND	.39	.30	.26	P12932STR-ND	2,000	148.00/M	EVQ-Q2B03W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	50gf	15	20	2,000K	P12933SCT-ND	.39	.30	.26	P12933STR-ND	4,000	148.00/M	EVQ-Q2D01W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	50gf	15	20	2,000K	P12934SCT-ND	.39	.30	.26	P12934STR-ND	2,000	148.00/M	EVQ-Q2D02W
	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	50gf	15	20	2,000K	P12935SCT-ND	.39	.30	.26	P12935STR-ND	2,000	148.00/M	EVQ-Q2D03W
	Light Touch Switch Short Push Travel	1	2.0	6.6	100gf	15	20	1,000K	P12936SCT-ND	.39	.30	.26	P12936STR-ND	4,000	148.00/M	EVQ-Q2F01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	100gf	15	20	1,000K	P12970SCT-ND	.39	.30	.26	P12970STR-ND	2,000	148.00/M	EVQ-Q2F02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	100gf	15	20	1,000K	P12937SCT-ND	.39	.30	.26	P12937STR-ND	2,000	148.00/M	EVQ-Q2F03W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	100gf	15	20	1,000K	P12938SCT-ND	.39	.30	.26	P12938STR-ND	4,000	148.00/M	EVQ-Q2H01W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	100gf	15	20	1,000K	P12939SCT-ND	.39	.30	.26	P12939STR-ND	2,000	148.00/M	EVQ-Q2H02W
	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	100gf	15	20	1,000K	P12940SCT-ND	.39	.30	.26	P12940STR-ND	2,000	148.00/M	EVQ-Q2H03W
	Light Touch Switch Short Push Travel	1	2.0	6.6	130gf	15	20	1,000K	P12941SCT-ND	.39	.30	.26	P12941STR-ND	4,000	148.00/M	EVQ-Q2K01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	130gf	15	20	1,000K	P12942SCT-ND	.39	.30	.26	P12942STR-ND	2,000	148.00/M	EVQ-Q2K02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	130gf	15	20	1,000K	P12943SCT-ND	.39	.30	.26	P12943STR-ND	2,000	148.00/M	EVQ-Q2K03W

Note: All switches are non-washable unless otherwise noted. * Bulk

(Continued)

Fig. 16

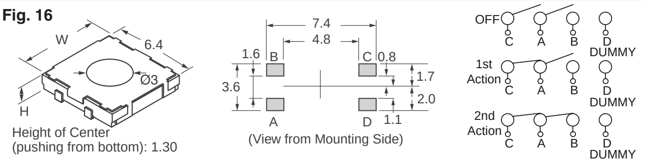

Fig. 17

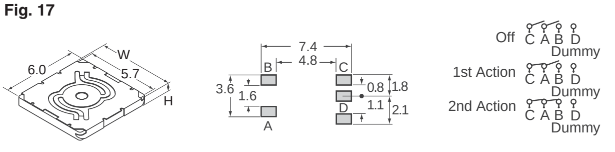

Fig. 18

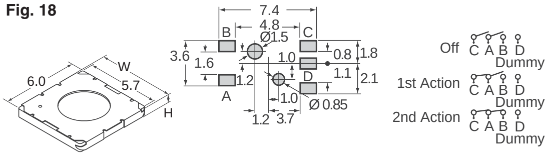

Fig. 19

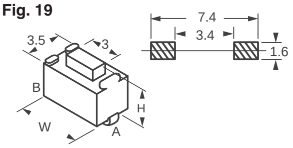

Fig. 20

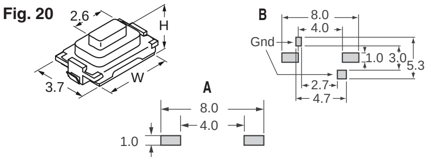

Fig. 21

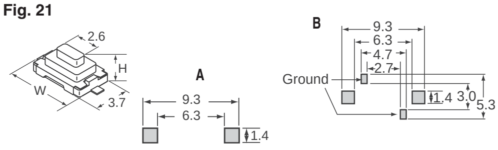

Fig. 22

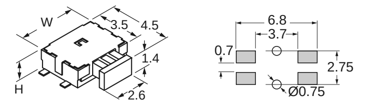

Fig. 23

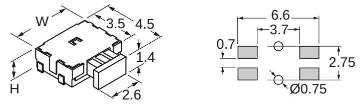

Fig. 24

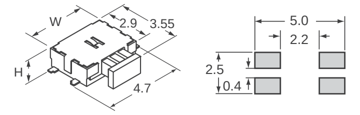

Fig. 25

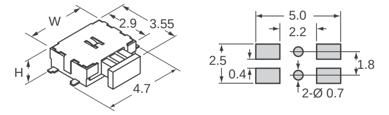

Fig. 26

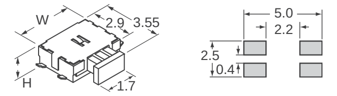

Fig.	Description	Circuit Dia.	Dimensions (mm)		Operating Force	Voltage Rating (VDC)	Current Rating (mA)	Oper-ating Life	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
			H	W						1	10	100		Size	Pricing	
10	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	130gf	15	20	1,000K	P12944SCT-ND	.39	.30	.26	P12944STR-ND	4,000	148.00/M	EVQ-Q2M01W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	130gf	15	20	1,000K	P12945SCT-ND	.39	.30	.26	P12945STR-ND	2,000	148.00/M	EVQ-Q2M02W
	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	130gf	15	20	1,000K	P12946SCT-ND	.39	.30	.26	P12946STR-ND	2,000	148.00/M	EVQ-Q2M03W
	Light Touch Switch Short Push Travel	1	2.0	6.6	160gf	15	20	1,000K	P12947SCT-ND	.39	.30	.26	P12947STR-ND	4,000	148.00/M	EVQ-Q2P01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	160gf	15	20	1,000K	P12948SCT-ND	.39	.30	.26	P12948STR-ND	2,000	148.00/M	EVQ-Q2P02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	160gf	15	20	1,000K	P12949SCT-ND	.39	.30	.26	P12949STR-ND	2,000	148.00/M	EVQ-Q2P03W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	160gf	15	20	1,000K	P12950SCT-ND	.39	.30	.26	P12950STR-ND	4,000	148.00/M	EVQ-Q2S01W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	160gf	15	20	1,000K	P12951SCT-ND	.39	.30	.26	P12951STR-ND	2,000	148.00/M	EVQ-Q2S02W
	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	160gf	15	20	1,000K	P12952SCT-ND	.39	.30	.26	P12952STR-ND	2,000	148.00/M	EVQ-Q2S03W
	Light Touch Switch Short Push Travel	1	2.0	6.6	260gf	15	20	200K	P12953SCT-ND	.39	.30	.26	P12953STR-ND	4,000	148.00/M	EVQ-Q2U01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	260gf	15	20	200K	P12954SCT-ND	.39	.30	.26	P12954STR-ND	2,000	148.00/M	EVQ-Q2U02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	260gf	15	20	200K	P12955SCT-ND	.39	.30	.26	P12955STR-ND	2,000	148.00/M	EVQ-Q2U03W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	260gf	15	20	200K	P12956SCT-ND	.39	.30	.26	P12956STR-ND	4,000	148.00/M	EVQ-Q2W01W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	260gf	15	20	200K	P12957SCT-ND	.39	.30	.26	P12957STR-ND	2,000	148.00/M	EVQ-Q2W02W
	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	260gf	15	20	200K	P12958SCT-ND	.39	.30	.26	P12958STR-ND	2,000	148.00/M	EVQ-Q2W03W
	Light Touch Switch Short Push Travel	1	2.0	6.6	350gf	15	20	100K	P12959SCT-ND	.39	.30	.26	P12959STR-ND	4,000	148.00/M	EVQ-Q2Y01W
	Light Touch Switch Short Push Travel	1	2.5	6.6	350gf	15	20	100K	P12960SCT-ND	.39	.30	.26	P12960STR-ND	2,000	148.00/M	EVQ-Q2Y02W
	Light Touch Switch Short Push Travel	1	3.1	6.6	350gf	15	20	100K	P12961SCT-ND	.39	.30	.26	P12961STR-ND	2,000	148.00/M	EVQ-Q2Y03W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.0	6.6	350gf	15	20	100K	P12962SCT-ND	.39	.30	.26	P12962STR-ND	4,000	148.00/M	EVQ-Q2201W
	L.T. Switch Short Push Travel w/Ground Term.	1	2.5	6.6	350gf	15	20	100K	P12963SCT-ND	.39	.30	.26	P12963STR-ND	2,000	148.00/M	EVQ-Q2202W
	L.T. Switch Short Push Travel w/Ground Term.	1	3.1	6.6	350gf	15	20	100K	P12964SCT-ND	.39	.30	.26	P12964STR-ND	2,000	148.00/M	EVQ-Q2203W
11	Light Touch Switch J Bent Leads	1	1.8	4	160gf	12	50	100K	P12318SCT-ND	.82	.62	.54	P12318STR-ND	4,000	309.00/M	EVQ-PSC02K
	Light Touch Switch J Bent Leads	1	1.8	4	220gf	12	50	100K	P12319SCT-ND	1.01	.76	.66	P12319STR-ND	4,000	379.00/M	EVQ-PSG02K
	L.T. Switch J Bent Leads w/Mounting Boss	1	1.8	4	160gf	12	50	50K	P8088SCT-ND	1.01	.76	.66	P8088STR-ND	4,000	367.00/M	EVQ-PSD02K
	L.T. Switch J Bent Leads w/Mounting Boss	1	1.8	4	220gf	12	50	50K	P8089SCT-ND	1.13	.85	.74	P8089STR-ND	4,000	409.00/M	EVQ-PSH02K
12	Light Touch Switch Straight Leads	1	1.8	4	160gf	12	50	100K	P12320SCT-ND	.83	.63	.55	P12320STR-ND	4,000	312.00/M	EVQ-PSL02K
	Light Touch Switch Straight Leads	1	1.8	4	220gf	12	50	100K	P12321SCT-ND	1.01	.76	.66	P12321STR-ND	4,000	379.00/M	EVQ-PSQ02K
13	L.T. Switch Straight Leads with Mtg. Boss	1	1.8	4	160gf	12	50	100K	P12322SCT-ND	1.01	.76	.66	P12322STR-ND	4,000	379.00/M	EVQ-PSM02K
	L.T. Switch Straight Leads with Mtg. Boss	1	1.8	4	220gf	12	50	100K	P12323SCT-ND	1.01	.76	.66	P12323STR-ND	4,000	379.00/M	EVQ-PSR02K
14	Light Touch Switch, Super Small	1	.55	4.5	160gf	15	20	50K	P8090SCT-ND	.59	.45	.39	P8090STR-ND	10,000	193.00/M	EVQ-PQHB55
	Light Touch Switch, Super Small	1	.55	4.5	220gf	15	20	50K	P8091SCT-ND	.59	.45	.39	P8091STR-ND	10,000	193.00/M	EVQ-PQMB55
15	L. T. Switch SPDT Straight Leads w/Mtg. Boss	—	1.5	6.2	100/260gf	15	20	100K	P10845S-ND*	.78	.68	.55	—	—	—	EVQ-PWAA15
16	Light Touch Switch, SPDT J Bent Leads	—	1.5	6.2	100/260gf	15	20	100K	P10846SCT-ND	1.16	.88	.76	P10846STR-ND	5,000	416.00/M	EVQ-PWBA15
17	L.T. Touch Switch SPDT Straight Lead w/Act.	2	0.95	6	70/260gf	15	20	30K	P12285SCT-ND	1.03	.78	.67	P12285STR-ND	5,000	361.00/M	EVQ-PR3A10
18	Light Touch Switch SPDT	2	0.90	6	100/260gf	15	20	30K	P12286SCT-ND	1.03	.78	.67	P12286STR-ND	5,000	361.00/M	EVQ-PRBA09
	Light Touch Switch SPDT with Ground	2	0.90	6	100/260gf	15	20	30K	P12288SCT-ND	1.15	.87	.75	P12288STR-ND	5,000	403.00/M	EVQ-PRDA09
	Light Touch Switch SPDT w/Mounting Boss	2	0.90	6	100/260gf	15	20	30K	P12287SCT-ND	1.03	.78	.67	P12287STR-ND	5,000	361.00/M	EVQ-3PRA09
	Light Switch SPDT w/Mtg. Boss w/Ground	2	0.90	6	100/260gf	15	20	30K	P12289SCT-ND	1.15	.87	.75	P12289STR-ND	5,000	403.00/M	EVQ-PRHA09
19	Light Touch Switch	2	4.3	6	100gf	12	50	50K	P8048SCT-ND	1.05	.79	.69	P8048STR-ND	2,500	393.00/M	EVQ-PJS04K
	Light Touch Switch	2	4.3	6	160gf	12	50	50K	P8050SCT-ND	1.06	.80	.69	P8050STR-ND	2,500	397.00/M	EVQ-PJX04M
	Light Touch Switch	2	4.3	6	240gf	12	50	50K	P8052SCT-ND	1.07	.81	.70	P8052STR-ND	2,500	402.00/M	EVQ-PJU04K
	Light Touch Switch (Long Post)	2	5.0	6	100gf	12	50	50K	P8049SCT-ND	1.16	.87	.76	P8049STR-ND	2,000	435.00/M	EVQ-PJS05K
	Light Touch Switch (Long Post)	2	5.0	6	160gf	12	50	50K	P8051SCT-ND	1.05	.79	.69	P8051STR-ND	2,000	393.00/M	EVQ-PJX05M
	Light Touch Switch (Long Post)	2	5.0	6	240gf	12	50	50K	P8053SCT-ND	1.07	.81	.70	P8053STR-ND	2,000	402.00/M	EVQ-PJU05K
20A	Light Touch Switch J Bent Leads	2	2.5	6	160gf	12	50	50K	P8086SCT-ND	.99	.75	.65	P8086STR-ND	4,000	358.00/M	EVQ-PPBA25
	Light Touch Switch Terminals	2	2.5	6	240gf	12	50	50K	P8087SCT-ND	.90	.68	.59	P8087STR-ND	4,000	325.00/M	EVQ-PPDA25
20B	Light Touch Switch J Bent Leads	2	2.5	6	160gf	12	50	500K	P12272SCT-ND	.90	.68	.59	P12272STR-ND	4,000	336.00/M	EVQ-PPKA25
	Light Touch Switch with Ground	2	2.5	6	240gf	12	50	300K	P12273SCT-ND	1.10	.83	.72	P12273STR-ND	4,000	414.00/M	EVQ-PPMA25
21A	Light Touch Switch Straight Leads	2	2.5	6	160gf	12	50	50K	P12268SCT-ND	.90	.68	.59	P12268STR-ND	4,000	336.00/M	EVQ-PPFA25
	Light Touch Switch Terminals	2	2.5	6	240gf	12	50	30K	P12269SCT-ND	.90	.68	.59	P12269STR-ND	4,000	336.00/M	EVQ-PPHA25
21B	Light Touch Switch Straight Leads	2	2.5	6	160gf	12	50	500K	P12270SCT-ND	1.10	.83	.72	P12270STR-ND	4,000	414.00/M	EVQ-PPPA25
	Light Touch Switch with Ground	2	2.5	6	240gf	12	50	300K	P12271SCT-ND	1.10	.83	.72	P12271STR-ND	4,000	414.00/M	EVQ-PPRA25
22	L. T. Switch Straight Leads No Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10851SCT-ND	1.07	.80	.70	P10851STR-ND	4,000	386.00/M	EVQ-PUJ02K
	L. T. Switch Straight Leads w/ Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10853SCT-ND	1.07	.80	.70	P10853STR-ND	4,000	386.00/M	EVQ-PUL02K
	L. T. Switch Straight Leads No Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10847SCT-ND	1.07	.80	.70	P10847STR-ND	4,000	386.00/M	EVQ-PUA02K
	L. T. Switch Straight Leadsw/ Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10849SCT-ND	1.07	.80	.70	P10849STR-ND	4,000	386.00/M	EVQ-PUC02K
	L. T. Switch J Bent Leads No Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10852SCT-ND	1.11	.84	.73	P10852STR-ND	4,000	402.00/M	EVQ-PUK02K
	L. T. Switch J Bent Leads w/ Mtg. Boss	1	1.65	4.7	160gf	12	50	100K	P10854SCT-ND	1.07	.80	.70	P10854STR-ND	4,000	386.00/M	EVQ-PUM02K

Note: All switches are non-washable unless otherwise noted. * Bulk

(Continued)

Fig. 27

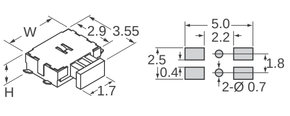

Fig. 28

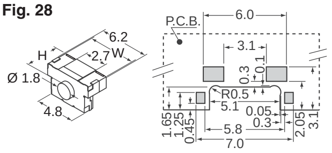

Fig. 29

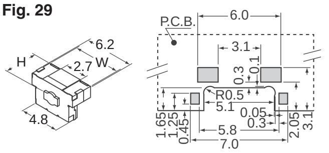

Fig. 30

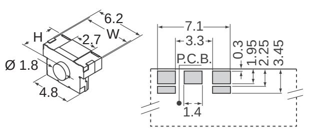

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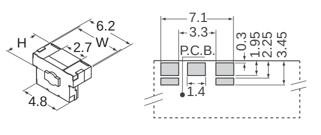

Fig. 32

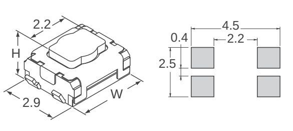

Fig. 33

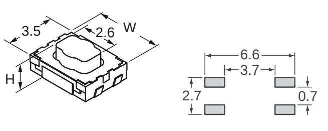

Fig. 34

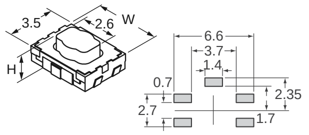

Fig. 35

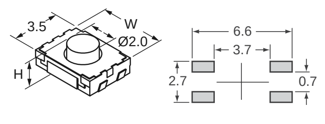

Fig. 36

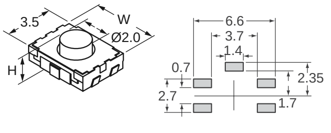

Fig. 37

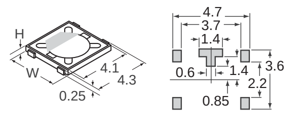

Fig. 38

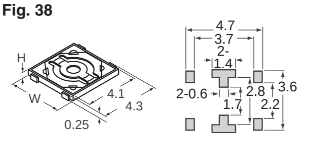

Fig. 39

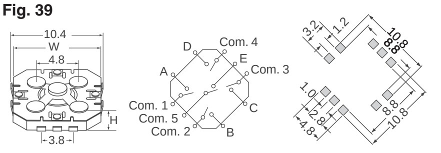

Fig. 40

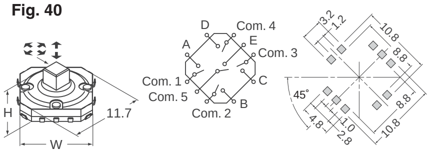

Fig. 41

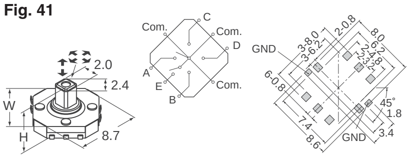

Fig.	Description	Circuit Dia.	Dimensions (mm)		Operating Force	Voltage Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Panasonic Part No.
			H	W						1	10	100		Size	Pricing	
23	L. T. Switch J Bent Leads No Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10848SCT-ND	1.07	.80	.70	P10848STR-ND	4,000	386.00/M	EVQ-PUB02K
	L. T. Switch J Bent Leads w/ Mtg. Boss	1	1.65	4.7	220gf	12	50	100K	P10850SCT-ND	1.07	.80	.70	P10850STR-ND	4,000	386.00/M	EVQ-PUD02K
24	L.T. Switch Straight Leads No Mtg. Boss	1	1.35	3.5	160gf	12	50	100K	P12278SCT-ND	1.17	.88	.77	P12278STR-ND	5,000	440.00/M	EVQ-P7J01K
	L.T. Switch Straight Leads No Mtg. Boss	1	1.35	3.5	220gf	12	50	100K	P12277SCT-ND	1.17	.88	.77	P12277STR-ND	5,000	440.00/M	EVQ-P7A01K
25	L.T. Switch Straight Leads with Mtg. Boss	1	1.35	3.5	160gf	12	50	100K	P12280SCT-ND	1.17	.88	.77	P12280STR-ND	5,000	440.00/M	EVQ-P7L01K
	L.T. Switch Straight Leads with Mtg. Boss	1	1.35	3.5	220gf	12	50	100K	P12279SCT-ND	1.17	.88	.77	P12279STR-ND	5,000	440.00/M	EVQ-P7C01K
26	L.T. Switch J Bent Leads No Mtg. Boss	1	1.35	3.5	160gf	12	50	100K	P12282SCT-ND	1.17	.88	.77	P12282STR-ND	5,000	440.00/M	EVQ-P7K01K
	L.T. Switch J Bent Leads No Mtg. Boss	1	1.35	3.5	220gf	12	50	100K	P12281SCT-ND	1.17	.88	.77	P12281STR-ND	5,000	440.00/M	EVQ-P7B01K
27	L.T. Switch J Bent Leads with Mtg. Boss	1	1.35	3.5	160gf	12	50	100K	P12284SCT-ND	1.17	.88	.77	P12284STR-ND	5,000	440.00/M	EVQ-P7M01K
	L.T. Switch J Bent Leads with Mtg. Boss	1	1.35	3.5	220gf	12	50	100K	P12283SCT-ND	1.17	.88	.77	P12283STR-ND	5,000	440.00/M	EVQ-P7D01K
28	L.T. Switch Edge Mount	2	3.4	5.7	250gf	15	20	500K	P12305SCT-ND	1.55	1.17	1.01	P12305STR-ND	2,500	582.00/M	EVQ-P4H03B
	L.T. Switch Edge Mount	2	3.4	5.7	350gf	15	20	200K	P12306SCT-ND	1.55	1.17	1.01	P12306STR-ND	2,500	582.00/M	EVQ-P4K03Q
	L.T. Switch Edge Mount	2	3.4	5.7	500gf	15	20	200K	P12307SCT-ND	1.55	1.17	1.01	P12307STR-ND	2,500	582.00/M	EVQ-P4M03K
29	L.T. Switch Short Stroke Edge Mount	2	3.0	5.7	100gf	15	20	1,000K	P12308SCT-ND	1.50	1.13	.98	P12308STR-ND	2,500	562.00/M	EVQ-P4003M
	L.T. Switch Short Stroke Edge Mount	2	3.0	5.7	160gf	15	20	1,000K	P12309SCT-ND	1.50	1.13	.98	P12309STR-ND	2,500	562.00/M	EVQ-P4203M
	L.T. Switch Short Stroke Edge Mount	2	3.0	5.7	240gf	15	20	500K	P12310SCT-ND	1.50	1.13	.98	P12310STR-ND	2,500	562.00/M	EVQ-P4403M
	L.T. Switch Short Stroke Edge Mount	2	3.0	5.7	350gf	15	20	200K	P12311SCT-ND	1.50	1.13	.98	P12311STR-ND	2,500	562.00/M	EVQ-P4603M
30	L.T. Switch PC Board Mount	2	3.4	5.7	250gf	15	20	500K	P12312SCT-ND	1.50	1.13	.98	P12312STR-ND	2,500	562.00/M	EVQ-P8H03B
	L.T. Switch PC Board Mount	2	3.4	5.7	350gf	15	20	200K	P12313SCT-ND	1.50	1.13	.98	P12313STR-ND	2,500	562.00/M	EVQ-P8K03Q
31	L.T. Switch Short Stroke PC Board Mnt	2	3.0	5.7	100gf	15	20	1,000K	P12314SCT-ND	1.44	1.09	.94	P12314STR-ND	2,500	541.00/M	EVQ-P8003M
	L.T. Switch Short Stroke PC Board Mnt	2	3.0	5.7	160gf	15	20	1,000K	P12315SCT-ND	1.44	1.09	.94	P12315STR-ND	2,500	541.00/M	EVQ-P8203M
	L.T. Switch Short Stroke PC Board Mnt	2	3.0	5.7	240gf	15	20	1,000K	P12316SCT-ND	1.44	1.09	.94	P12316STR-ND	2,500	541.00/M	EVQ-P8403M
	L.T. Switch Short Stroke PC Board Mnt	2	3.0	5.7	350gf	15	20	500K	P12317SCT-ND	1.44	1.09	.94	P12317STR-ND	2,500	541.00/M	EVQ-P8603M
32	L.T. Switch J Bent Terminals	1	1.7	3.5	100gf	15	20	1,000k	P13347SCT-ND	1.33	1.00	.87	P13347STR-ND	5,000	500.00/M	EVP-AA002K
	L.T. Switch J Bent Terminals	1	1.7	3.5	160gf	15	20	200k	P13348SCT-ND	1.33	1.00	.87	P13348STR-ND	5,000	500.00/M	EVP-AA202K
	L.T. Switch J Bent Terminals	1	1.7	3.5	240gf	15	20	200k	P13349SCT-ND	1.33	1.00	.87	P13349STR-ND	5,000	500.00/M	EVP-AA402W
	L.T. Switch J Bent Terminals	1	1.7	3.5	350gf	15	20	200k	P13350SCT-ND	1.33	1.00	.87	P13350STR-ND	5,000	500.00/M	EVP-AA602W
33	L.T. Switch J Bent Leads Short Stroke	1	2.1	4.7	100gf	15	20	1,000K	P12296SCT-ND	1.31	.98	.85	P12296STR-ND	4,000	489.00/M	EVQ-P2002M
	L.T. Switch J Bent Leads Short Stroke	1	2.1	4.7	160gf	15	20	1,000K	P12298SCT-ND	1.31	.98	.85	P12298STR-ND	4,000	489.00/M	EVQ-P2202M
	L.T. Switch J Bent Leads Short Stroke	1	2.1	4.7	240gf	15	20	500K	P11080SCT-ND	1.31	.98	.85	P11080STR-ND	4,000	473.00/M	EVQ-P2402M
	L.T. Switch J Bent Leads Short Stroke	1	2.1	4.7	350gf	15	20	200K	P12300SCT-ND	1.31	.98	.85	P12300STR-ND	4,000	489.00/M	EVQ-P2602M
	L.T. Switch J Bent Leads Short Stroke	1	2.5	4.7	100gf	15	20	1,000K	P12297SCT-ND	1.31	.98	.85	P12297STR-ND	4,000	489.00/M	EVQ-P2002W
	L.T. Switch J Bent Leads Short Stroke	1	2.5	4.7	160gf	15	20	1,000K	P12299SCT-ND	1.31	.98	.85	P12299STR-ND	4,000	489.00/M	EVQ-P2202W
	L.T. Switch J Bent Leads Short Stroke	1	2.5	4.7	240gf	15	20	500K	P11081SCT-ND	1.31	.98	.85	P11081STR-ND	4,000	473.00/M	EVQ-P2402W
	L.T. Switch J Bent Leads Short Stroke	1	2.5	4.7	350gf	15	20	200K	P12301SCT-ND	1.31	.98	.85	P12301STR-ND	4,000	489.00/M	EVQ-P2602W
34	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.1	4.7	100gf	15	20	1,000K	P12290SCT-ND	1.44	1.09	.94	P12290STR-ND	4,000	541.00/M	EVQ-P2P02M
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.1	4.7	160gf	15	20	1,000K	P12292SCT-ND	1.44	1.09	.94	P12292STR-ND	4,000	541.00/M	EVQ-P2R02M
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.1	4.7	240gf	15	20	500K	P11082SCT-ND	1.44	1.09	.94	P11082STR-ND	4,000	523.00/M	EVQ-P2T02M
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.1	4.7	350gf	15	20	200K	P12294SCT-ND	1.44	1.09	.94	P12294STR-ND	4,000	541.00/M	EVQ-P2V02M
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.5	4.7	240gf	15	20	500K	P11083SCT-ND	1.44	1.09	.94	P11083STR-ND	4,000	523.00/M	EVQ-P2T02W
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.5	4.7	100gf	15	20	1,000K	P12291SCT-ND	1.44	1.09	.94	P12291STR-ND	4,000	541.00/M	EVQ-P2P02W
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.5	4.7	160gf	15	20	1,000K	P12293SCT-ND	1.44	1.09	.94	P12293STR-ND	4,000	541.00/M	EVQ-P2R02W
	L.T. Switch J Bent Leads Short Stroke w/Gnd	1	2.5	4.7	350gf	15	20	200K	P12295SCT-ND	1.44	1.09	.94	P12295STR-ND	4,000	541.00/M	EVQ-P2V02W
35	Light Touch Switch J Bent Leads	1	2.5	4.7	250gf	15	20	1,000K	P12304SCT-ND	1.44	1.09	.94	P12304STR-ND	4,000	541.00/M	EVQ-P2H02B
	Light Touch Switch J Bent Leads	1	2.5	4.7	350gf	15	20	500K	P11084SCT-ND	1.31	.98	.85	P11084STR-ND	4,000	473.00/M	EVQ-P2K02Q
36	Light Touch Switch J Bent Leads w/Ground	1	2.5	4.7	250gf	15	20	1,000K	P12302SCT-ND	1.44	1.09	.94	P12302STR-ND	4,000	541.00/M	EVQ-P2B02B
	Light Touch Switch J Bent Leads w/Ground	1	2.5	4.7	350gf	15	20	500K	P11085SCT-ND	1.44	1.09	.94	P11085STR-ND	4,000	523.00/M	EVQ-P2D02Q
	Light Touch Switch J Bent Leads w/Ground	1	2.5	4.7	500gf	15	20	200K	P12303SCT-ND	1.44	1.09	.94	P12303STR-ND	4,000	541.00/M	EVQ-P2F02K
37	Light Touch Switch	1	0.35	4.1	160gf	15	20	1,000K	P12324SCT-ND	.56	.43	.37	P12324STR-ND	10,000	183.00/M	EVQ-P6EB35
	Light Touch Switch	1	0.35	4.1	240gf	15	20	500K	P12325SCT-ND	.56	.43	.37	P12325STR-ND	10,000	183.00/M	EVQ-P6GB35
	Light Touch Switch	1	0.35	4.1	350gf	15	20	200K	P12326SCT-ND	.56	.43	.37	P12326STR-ND	10,000	183.00/M	EVQ-P6JB35
38	Light Touch Switch with Actuator	1	0.58	4.1	160gf	15	20	1,000K	P12327SCT-ND	.61	.46	.40	P12327STR-ND	10,000	197.00/M	EVQ-P6SB55
	Light Touch Switch with Actuator	1	0.58	4.1	240gf	15	20	500K	P12328SCT-ND	.61	.46	.40	P12328STR-ND	10,000	197.00/M	EVQ-P6UB55
	Light Touch Switch with Actuator	1	0.58	4.1	350gf	15	20	200K	P12329SCT-ND	.61	.46	.40	P12329STR-ND	10,000	197.00/M	EVQ-P6WB55
39	Multi-Direction Switch	—	1.55	9.8	320/160gf	15	20	1M	P12330SCT-ND	4.48	3.37	2.92	P12330STR-ND	2,000	1682.00/M	EVQ-Q3AA15
40	Light Touch Multi-Direction Switch	—	5.0	9.8	320/160gf	15	20	1,000K	P13352SCT-ND	4.12	3.09	2.68	P13352STR-ND	1,200	1545.00/M	EVQ-Q5A05K
41	Light Touch Multi-Direction Switch	—	5.0	7.3	260/130gf	15	20	1,000K	P13351SCT-ND	4.24	3.19	2.76	P13351STR-ND	3,000	1590.00/M	EVQ-Q7GA50

Note: All switches are non-washable unless otherwise noted. * Bulk

Momentary Pushbutton Switches

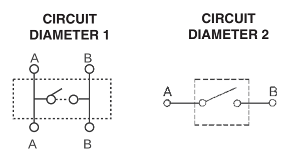

Fig. 1

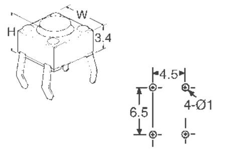

Fig. 2

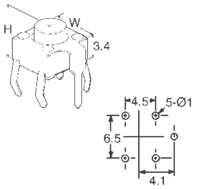

Fig. 3

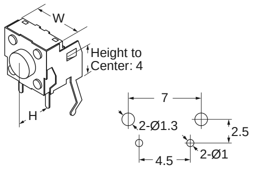

Fig. 4

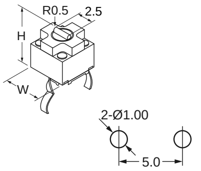

Fig. 5

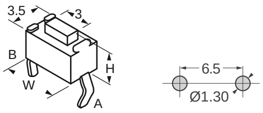

Fig. 6

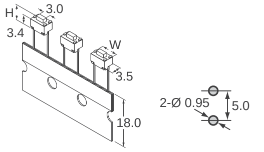

Fig. 7

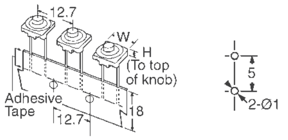

Fig. 8

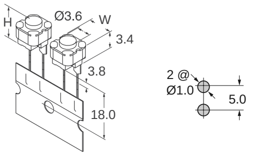

Fig. 9

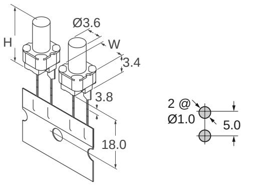

Fig. 10

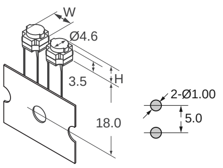

Fig. 11

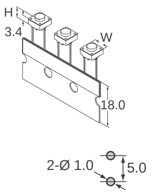

Fig. 12

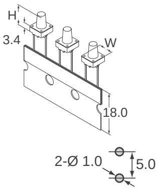

Fig. 13

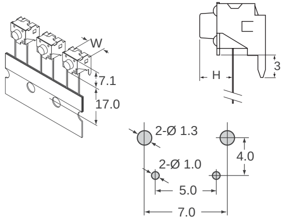

Fig.	Description	Circuit Dia.	Dim. (mm)		Operating Force	Volt Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Price Each				Panasonic Part No.
			H	W						1	10	100	1,000	
	6mm Type													
1	Light Touch Switch Standard	1	4.3	6	100gf	15	20	100K	P8006S-ND	.29	.22	.19	.13	EVQ-PAC04M
	Light Touch Switch Standard	1	4.3	6	130gf	15	20	100K	P8007S-ND	.29	.22	.19	.13	EVQ-PAD04M
	Light Touch Switch Standard	1	4.3	6	160gf	15	20	100K	P8008S-ND	.29	.22	.19	.13	EVQ-PAE04M
	Light Touch Switch Standard	1	4.3	6	250gf	15	20	100K	P8009S-ND	.29	.22	.19	.13	EVQ-PAG04M
	Light Touch Switch Standard	1	5	6	100gf	15	20	100K	P8010S-ND	.29	.22	.19	.13	EVQ-PAC05R
	Light Touch Switch Standard	1	5	6	130gf	15	20	100K	P10890S-ND	.42	.32	.28	.18	EVQ-PAD05R
	Light Touch Switch Standard	1	5	6	160gf	15	20	100K	P12192S-ND	.30	.23	.20	.13	EVQ-PAE05R
	Light Touch Switch Standard	1	5	6	260gf	15	20	50K	P12195S-ND	.30	.23	.20	.13	EVQ-PAG05R
	Light Touch Switch Standard	1	7	6	100gf	15	20	100K	P8011S-ND	.29	.22	.19	.13	EVQ-PAC07K
	Light Touch Switch Standard	1	7	6	130gf	15	20	100K	P10891S-ND	.50	.38	.33	.21	EVQ-PAD07K
	Light Touch Switch Standard	1	7	6	160gf	15	20	100K	P12193S-ND	.30	.23	.20	.13	EVQ-PAE07K
	Light Touch Switch Standard	1	7	6	260gf	15	20	50K	P12196S-ND	.30	.23	.20	.13	EVQ-PAG07K
	Light Touch Switch Standard (Long Post)	1	9.5	6	100gf	15	20	100K	P8012S-ND	.29	.22	.19	.13	EVQ-PAC09K
	Light Touch Switch Standard (Long Post)	1	9.5	6	130gf	15	20	100K	P10892S-ND	1.42	1.07	.93	.59	EVQ-PAD09K
	Light Touch Switch Standard (Long Post)	1	9.5	6	160gf	15	20	100K	P12194S-ND	.28	.21	.19	.12	EVQ-PAE09K
	Light Touch Switch Standard (Long Post)	1	9.5	6	260gf	15	20	50K	P12197S-ND	.30	.23	.20	.13	EVQ-PAG09K
2	Light Touch Switch Standard with Ground Terminal	1	4.3	6	100gf	15	20	100K	P8013S-ND	.30	.23	.20	.13	EVQ-PBC04M
	Light Touch Switch Standard with Ground Terminal	1	4.3	6	130gf	15	20	100K	P12198S-ND	.29	.23	.20	.13	EVQ-PBD04M
	Light Touch Switch Standard with Ground Terminal	1	4.3	6	160gf	15	20	100K	P12200S-ND	.32	.24	.21	.14	EVQ-PBE04M
	Light Touch Switch Standard with Ground Terminal	1	4.3	6	260gf	15	20	50K	P12204S-ND	.36	.28	.24	.16	EVQ-PBG04M
	Light Touch Switch Standard with Ground Terminal	1	5	6	100gf	15	20	100K	P8014S-ND	.30	.23	.20	.13	EVQ-PBC05R
	Light Touch Switch Standard with Ground Terminal	1	5	6	130gf	15	20	100K	P10893S-ND	.32	.25	.21	.14	EVQ-PBD05R
	Light Touch Switch Standard with Ground Terminal	1	5	6	160gf	15	20	100K	P12201S-ND	.32	.24	.21	.14	EVQ-PBE05R
	Light Touch Switch Standard with Ground Terminal	1	5	6	260gf	15	20	50K	P12205S-ND	.36	.28	.24	.16	EVQ-PBG05R
	Light Touch Switch Standard with Ground Terminal	1	7	6	100gf	15	20	100K	P8015S-ND	.29	.23	.20	.13	EVQ-PBC07K
	Light Touch Switch Standard with Ground Terminal	1	7	6	130gf	15	20	100K	P10894S-ND	.38	.29	.25	.16	EVQ-PBD07K
	Light Touch Switch Standard with Ground Terminal	1	7	6	160gf	15	20	100K	P12202S-ND	.32	.24	.21	.14	EVQ-PBE07K
	Light Touch Switch Standard with Ground Terminal	1	7	6	260gf	15	20	50K	P12206S-ND	.36	.28	.24	.16	EVQ-PBG07K
	Light Touch Switch Standard w/Ground Term. (Long Post)	1	9.5	6	100gf	15	20	100K	P8016S-ND	.30	.23	.20	.13	EVQ-PBC09K
	Light Touch Switch Standard w/Ground Term. (Long Post)	1	9.5	6	130gf	15	20	100K	P12199S-ND	.29	.23	.20	.13	EVQ-PBD09K
	Light Touch Switch Standard w/Ground Term. (Long Post)	1	9.5	6	160gf	15	20	100K	P12203S-ND	.32	.24	.21	.14	EVQ-PBE09K
	Light Touch Switch Standard w/Ground Term. (Long Post)	1	9.5	6	260gf	15	20	50K	P12207S-ND	.36	.28	.24	.16	EVQ-PBG09K
3	Light Touch Switch Right Angle	2	3.15	7.5	100gf	15	20	100K	P10877S-ND	.36	.27	.24	.15	EVQ-PF003M
	Light Touch Switch Right Angle	2	3.15	7.5	130gf	15	20	100K	P10881S-ND	.36	.27	.24	.15	EVQ-PF103M
	Light Touch Switch Right Angle	2	3.15	7.5	160gf	15	20	100K	P12208S-ND	.36	.27	.24	.15	EVQ-PF203M
	Light Touch Switch Right Angle	2	3.15	7.5	260gf	15	20	50K	P12212S-ND	.36	.28	.24	.16	EVQ-PF303M
	Light Touch Switch Right Angle	2	3.85	7.5	100gf	15	20	100K	P10878S-ND	.36	.27	.24	.15	EVQ-PF004R
	Light Touch Switch Right Angle	2	3.85	7.5	130gf	15	20	100K	P10882S-ND	.40	.30	.26	.17	EVQ-PF104R
	Light Touch Switch Right Angle	2	3.85	7.5	160gf	15	20	100K	P12209S-ND	.36	.27	.24	.15	EVQ-PF204R

(Continued)

Momentary Pushbutton Switches *(Cont.)*

Fig.	Description	Circuit Dia.	Dim. (mm) H	Dim. (mm) W	Operating Force	Volt Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
3	Light Touch Switch Right Angle	2	3.85	7.5	260gf	15	20	50K	P12213S-ND	.36	.28	.24	.16	EVQ-PF304R
	Light Touch Switch Right Angle	2	5.85	7.5	100gf	15	20	100K	P10879S-ND	.36	.27	.24	.15	EVQ-PF006K
	Light Touch Switch Right Angle	2	5.85	7.5	130gf	15	20	100K	P10883S-ND	.36	.27	.24	.15	EVQ-PF106K
	Light Touch Switch Right Angle	2	5.85	7.5	160gf	15	20	100K	P12210S-ND	.36	.27	.24	.15	EVQ-PF206K
	Light Touch Switch Right Angle	2	5.85	7.5	260gf	15	20	50K	P12214S-ND	.36	.28	.24	.16	EVQ-PF306K
	Light Touch Switch Right Angle (Long Post)	2	8.35	7.5	100gf	15	20	100K	P10880S-ND	.36	.27	.24	.15	EVQ-PF008K
	Light Touch Switch Right Angle (Long Post)	2	8.35	7.5	130gf	15	20	100K	P10884S-ND	.36	.27	.24	.15	EVQ-PF108K
	Light Touch Switch Right Angle (Long Post)	2	8.35	7.5	160gf	15	20	100K	P12211S-ND	.36	.27	.24	.15	EVQ-PF208K
	Light Touch Switch Right Angle (Long Post)	2	8.35	7.5	260gf	15	20	50K	P12215S-ND	.36	.28	.24	.16	EVQ-PF308K
4	Light Touch Switch With Over Travel	2	7.45	6.2	75gf	30	50	100K	P10843S-ND	.55	.42	.36	.23	EVQ-P0E07K
	Light Touch Switch With Over Travel	2	7.45	6.2	130gf	30	50	100K	P10844S-ND	.55	.42	.36	.23	EVQ-P0D07K
	6mm x 3.5mm Type													
5	Light Touch Switch Top Push	2	4.3	6	100gf	12	20	50K	P8056S-ND	.71	.53	.46	.32	EVQ-PJA04Q
	Light Touch Switch Top Push	2	4.3	6	160gf	12	20	50K	P8058S-ND	.78	.59	.51	.35	EVQ-PJB04K
	Light Touch Switch Top Push	2	4.3	6	240gf	12	20	50K	P8060S-ND	.73	.55	.48	.33	EVQ-PJC04T
	Light Touch Switch Top Push	2	5	6	100gf	12	20	50K	P8057S-ND	.71	.53	.46	.32	EVQ-PJA05Q
	Light Touch Switch Top Push	2	5	6	160gf	12	20	50K	P8059S-ND	.71	.53	.46	.32	EVQ-PJB05K
	Light Touch Switch Top Push	2	5	6	240gf	12	20	50K	P8061S-ND	.73	.55	.48	.33	EVQ-PJC05T

Fig.	Description	Circuit Dia.	Dim. (mm) H	Dim. (mm) W	Operating Force	Volt Rating (VDC)	Current Rating (mA)	Operating Life	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Size	Tape & Box Pricing	Panasonic Part No.
6	Light Touch Switch Top Push	2	4.3	6	100gf	12	50	50K	P12236SCT-ND	.79	.60	.52	P12236STB-ND	2,000	297.00/M	EVQ-PJG04Q
	Light Touch Switch Top Push	2	4.3	6	160gf	12	50	50K	P12238SCT-ND	.79	.60	.52	P12238STB-ND	2,000	297.00/M	EVQ-PJH04K
	Light Touch Switch Top Push	2	4.3	6	240gf	12	50	30K	P12240SCT-ND	.79	.60	.52	P12240STB-ND	2,000	297.00/M	EVQ-PJJ04T
	Light Touch Switch Top Push	2	5	6	100gf	12	50	50K	P12237SCT-ND	.79	.60	.52	P12237STB-ND	2,000	297.00/M	EVQ-PJG05Q
	Light Touch Switch Top Push	2	5	6	160gf	12	50	50K	P12239SCT-ND	.79	.60	.52	P12239STB-ND	2,000	297.00/M	EVQ-PJH05K
	Light Touch Switch Top Push	2	5	6	240gf	12	50	30K	P12241SCT-ND	.79	.60	.52	P12241STB-ND	2,000	297.00/M	EVQ-PJJ05T
	6mm Round Type															
7	L. T. Switch Long Travel	2	5	8	80gf	12	5	1000K	P8029SCT-ND	.81	.61	.53	P8029STB-ND	1,000	310.00	EVQ-QJJ05Q
	Light Touch Switch Long Travel	2	5	8	130gf	12	5	100K	P12242SCT-ND	.81	.61	.53	P12242STB-ND	1,000	302.00	EVQ-QJE05D
	Light Touch Switch Long Travel	2	5	8	250gf	12	5	100K	P12243SCT-ND	.81	.61	.53	P12243STB-ND	1,000	302.00	EVQ-QJD05B
8	Light Touch Switch	2	4.3	6	100gf	15	20	100K	P8070SCT-ND	.38	.29	.25	P8070STB-ND	2,500	141.00/M	EVQ-11A04M
	Light Touch Switch	2	4.3	6	130gf	15	20	100K	P8074SCT-ND	.38	.29	.25	P8074STB-ND	2,500	141.00/M	EVQ-11G04M
	Light Touch Switch	2	4.3	6	160gf	15	20	100K	P8078SCT-ND	.38	.29	.25	P8078STB-ND	2,500	141.00/M	EVQ-11L04M
	Light Touch Switch	2	4.3	6	260gf	15	20	100K	P8082SCT-ND	.38	.29	.25	P8082STB-ND	2,500	141.00/M	EVQ-11U04M
	Light Touch Switch	2	5	6	100gf	15	20	100K	P8071SCT-ND	.38	.29	.25	P8071STB-ND	2,500	141.00/M	EVQ-11A05R
	Light Touch Switch	2	5	6	130gf	15	20	100K	P8075SCT-ND	.38	.29	.25	P8075STB-ND	2,500	141.00/M	EVQ-11G05R
	Light Touch Switch	2	5	6	160gf	15	20	100K	P8079SCT-ND	.38	.29	.25	P8079STB-ND	2,500	141.00/M	EVQ-11L05R
	Light Touch Switch	2	5	6	260gf	15	20	100K	P8083SCT-ND	.38	.29	.25	P8083STB-ND	2,500	141.00/M	EVQ-11U05R
	Light Touch Switch	2	7	6	100gf	15	20	100K	P8072SCT-ND	.38	.29	.25	P8072STB-ND	2,500	141.00/M	EVQ-11A07K
	Light Touch Switch	2	7	6	130gf	15	20	100K	P8076SCT-ND	.38	.29	.25	P8076STB-ND	2,500	141.00/M	EVQ-11G07K
	Light Touch Switch	2	7	6	160gf	15	20	100K	P8080SCT-ND	.38	.29	.25	P8080STB-ND	2,500	141.00/M	EVQ-11L07K
	Light Touch Switch	2	7	6	260gf	15	20	100K	P8084SCT-ND	.38	.29	.25	P8084STB-ND	2,500	141.00/M	EVQ-11U07K
9	Light Touch Switch (Long Post)	2	9.5	6	100gf	15	20	100K	P8073SCT-ND	.38	.29	.25	P8073STB-ND	2,500	141.00/M	EVQ-11A09K
	Light Touch Switch (Long Post)	2	9.5	6	130gf	15	20	100K	P8077SCT-ND	.38	.29	.25	P8077STB-ND	2,500	141.00/M	EVQ-11G09K
	Light Touch Switch (Long Post)	2	9.5	6	160gf	15	20	100K	P8081SCT-ND	.38	.29	.25	P8081STB-ND	2,500	141.00/M	EVQ-11L09K
	Light Touch Switch (Long Post)	2	9.5	6	260gf	15	20	100K	P8085SCT-ND	.38	.29	.25	P8085STB-ND	2,500	141.00/M	EVQ-11U09K
10	Light Touch Switch Long Travel	2	5	6	200gf	12	50	100K	P10856SCT-ND	1.10	.83	.72	P10856STB-ND	2,500	413.00/M	EVQ-PVG05K
	Light Touch Switch Long Travel	2	5	6	220gf	12	50	100K	P10855SCT-ND	1.41	1.06	.92	P10855STB-ND	2,500	528.00/M	EVQ-PVA05K
	Light Touch Switch Long Travel	2	5	6	250gf	12	50	100K	P10858SCT-ND	1.41	1.06	.92	P10858STB-ND	2,500	528.00/M	EVQ-PVF05K
	Light Touch Switch Long Travel	2	5	6	350gf	12	50	100K	P10857SCT-ND	1.10	.83	.72	P10857STB-ND	2,500	413.00/M	EVQ-PVH05K
	6mm Square Type															
11	Light Touch Switch	2	4.3	6	100gf	15	20	100K	P12216SCT-ND	.33	.25	.22	P12216STB-ND	1,000	123.00	EVQ-21304M
	Light Touch Switch	2	4.3	6	130gf	15	20	100K	P12220SCT-ND	.33	.25	.22	P12220STB-ND	1,000	123.00	EVQ-21404M
	Light Touch Switch	2	4.3	6	160gf	15	20	100K	P12224SCT-ND	.51	.39	.34	P12224STB-ND	1,000	191.00	EVQ-21504M
	Light Touch Switch	2	4.3	6	260gf	15	20	50K	P12228SCT-ND	.33	.25	.22	P12228STB-ND	1,000	123.00	EVQ-22704M
	Light Touch Switch	2	5	6	100gf	15	20	100K	P12217SCT-ND	.52	.40	.35	P12217STB-ND	1,000	197.00	EVQ-21305R
	Light Touch Switch	2	5	6	130gf	15	20	100K	P12221SCT-ND	.51	.39	.34	P12221STB-ND	1,000	191.00	EVQ-21405R
	Light Touch Switch	2	5	6	160gf	15	20	100K	P12225SCT-ND	.33	.25	.22	P12225STB-ND	1,000	123.00	EVQ-21505R
	Light Touch Switch	2	5	6	260gf	15	20	50K	P12229SCT-ND	.33	.25	.22	P12229STB-ND	1,000	123.00	EVQ-22705R
	Light Touch Switch	2	7	6	100gf	15	20	100K	P12218SCT-ND	.33	.25	.22	P12218STB-ND	1,000	123.00	EVQ-21307K
	Light Touch Switch	2	7	6	130gf	15	20	100K	P12222SCT-ND	.33	.25	.22	P12222STB-ND	1,000	123.00	EVQ-21407K
	Light Touch Switch	2	7	6	160gf	15	20	100K	P12226SCT-ND	.33	.25	.22	P12226STB-ND	1,000	123.00	EVQ-21507K
	Light Touch Switch	2	7	6	260gf	15	20	50K	P12230SCT-ND	.33	.25	.22	P12230STB-ND	1,000	123.00	EVQ-22707K
12	Light Touch Switch (Long Post)	2	9.5	6	100gf	15	20	100K	P12219SCT-ND	.33	.25	.22	P12219STB-ND	1,000	123.00	EVQ-21309K
	Light Touch Switch (Long Post)	2	9.5	6	130gf	15	20	100K	P12223SCT-ND	.33	.25	.22	P12223STB-ND	1,000	123.00	EVQ-21409K
	Light Touch Switch (Long Post)	2	9.5	6	160gf	15	20	100K	P12227SCT-ND	.33	.25	.22	P12227STB-ND	1,000	123.00	EVQ-21509K
	Light Touch Switch (Long Post)	2	9.5	6	260gf	15	20	50K	P12231SCT-ND	.33	.25	.22	P12231STB-ND	1,000	123.00	EVQ-22709K
13	Light Touch Switch Right Angle	2	4.75	7.5	100gf	15	20	100K	P12232SCT-ND	.39	.30	.26	P12232STB-ND	700	103.60	EVQ-PCF05K
	Light Touch Switch Right Angle	2	4.75	7.5	130gf	15	20	100K	P12233SCT-ND	.39	.30	.26	P12233STB-ND	700	103.60	EVQ-PCG05K
	Light Touch Switch Right Angle	2	4.75	7.5	160gf	15	20	100K	P12234SCT-ND	.39	.30	.26	P12234STB-ND	700	103.60	EVQ-PCH05K
	Light Touch Switch Right Angle	2	4.75	7.5	260gf	15	20	100K	P12235SCT-ND	.39	.30	.26	P12235STB-ND	700	103.60	EVQ-PCD05K

Fig. 1

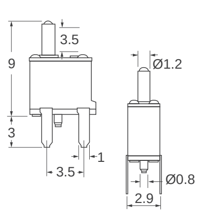

Fig. 2

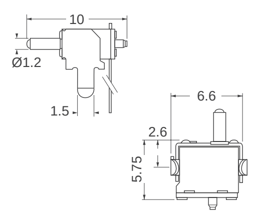

Fig. 3

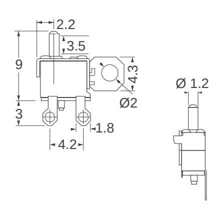

Fig. 4

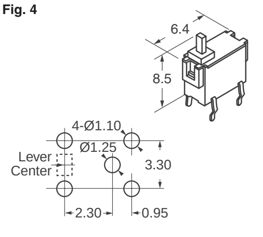

Fig. 5

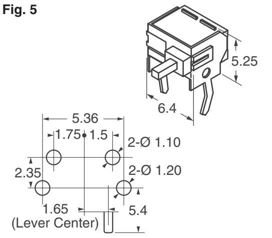

Fig. 6

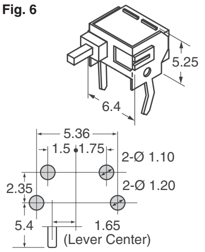

Fig. 7

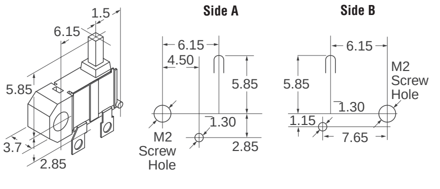

Fig. 8

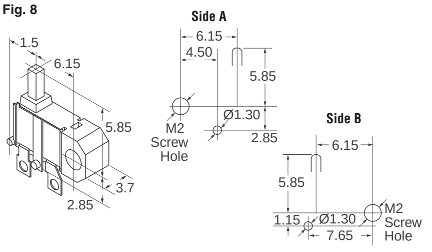

Fig. 9

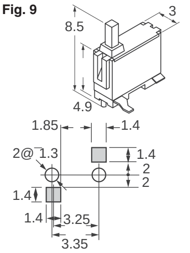

Fig. 10

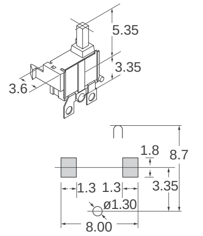

Fig. 11

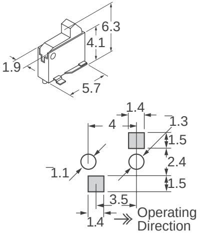

Fig. 12

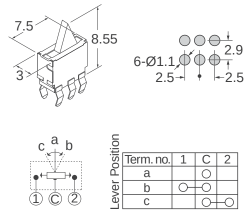

Fig. 13

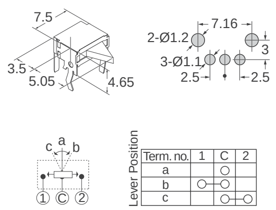

Fig. 14

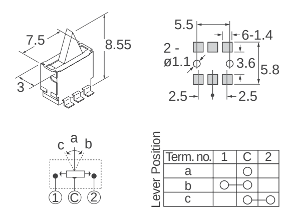

Fig. 15

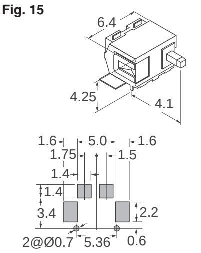

Fig. 16

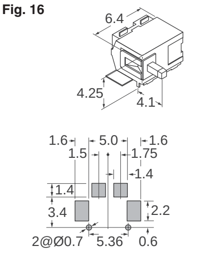

Fig. 17

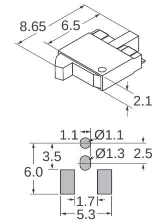

Fig. 18

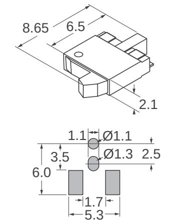

Fig. 19

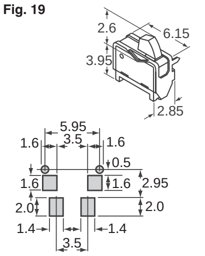

Fig. 20

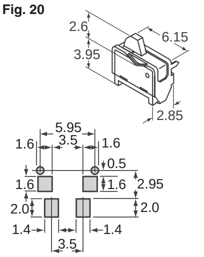

Fig. 21

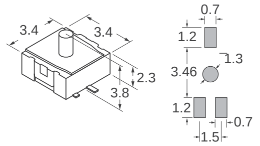

Fig. 22

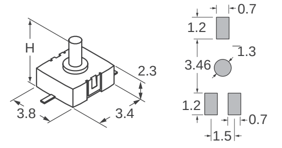

ESE-2161 Series, NC Contact With or Without Boss

Fig. 23

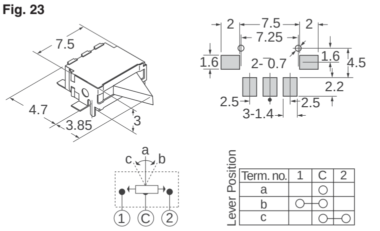

Fig. 24

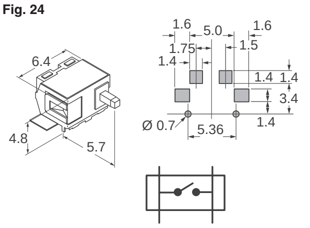

Fig.	Description	Rating	OP Force	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Panasonic Part No.
1	PC Vertical Mount	5VDC, 10mA	35gf	P8039S-ND	.95	.71	.62	—	.40	ESE-105SV1
2	PC Horizontal Mount	5VDC, 10mA	35gf	P8040S-ND	1.08	.81	.70	—	.45	ESE-105SH1
3	Panel with Mounting Hole	5VDC, 10mA	35gf	P8041S-ND	.99	.75	.65	—	.42	ESE-105HS1
4	PC Vertical Mount	5VDC, 10mA	35gf	P8062S-ND	.71	.54	.47	.38	.32	ESE-11SV1
5	PC Horizontal Mount	5VDC, 10mA	35gf	P10862S-ND	.71	.54	.47	.36	.30	ESE-11SH1C
6	PC Horizontal Mount	5VDC, 10mA	35gf	P10863S-ND	.71	.54	.47	.36	.30	ESE-11SH2C
7	Tabbed with Mounting Hole	5VDC, 10mA	35gf	P10864S-ND	.78	.59	.51	.40	.33	ESE-11HS1
8	Tabbed with Mounting Hole	5VDC, 10mA	35gf	P10865S-ND	.78	.59	.51	.40	.33	ESE-11HS2
9	SMD Vertical Mount	5VDC, 10mA	35gf	P10866S-ND	.78	.59	.51	.40	.33	ESE-11MV1
10	Snap-In with Tabs Horiz. Mount	5VDC, 10mA	35gf	P10867S-ND	.78	.59	.51	.40	.33	ESE-11SF1
11	SMD Vertical Mount	5VDC, 10mA	30gf	P10868S-ND	.78	.59	.51	.40	.33	ESE-22MV1
12	PC Vertical Mount SPDT	5VDC, 10mA	35.7gf	P10870S-ND	1.12	.84	.73	.56	.47	ESE-24SV3
13	PC Horizontal Mount SPDT	5VDC, 10mA	35.7gf	P10871S-ND	1.12	.84	.73	.56	.47	ESE-24SH1
14	SMD Vertical Mount SPDT	5VDC, 10mA	35.7gf	P10872S-ND	1.12	.84	.73	.56	.47	ESE-24MV1

(Continued)

Fig. 25

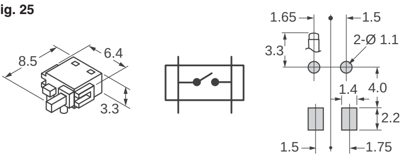

Fig. 26

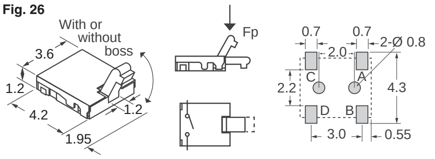

Fig. 27

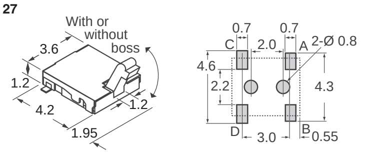

Fig. 28

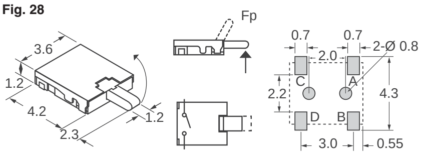

Fig. 29 — J-Bent Terminal Type

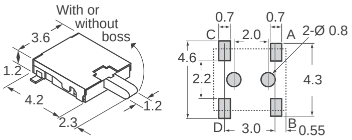

Fig. 30 — J-Bent Terminal Type

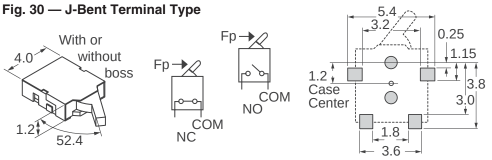

Fig. 31 — Straight Terminal Type

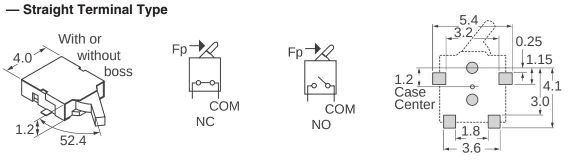

Fig. 32 — J-Bent Terminal Type

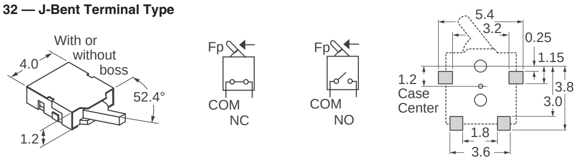

Fig. 33 — Straight Terminal Type

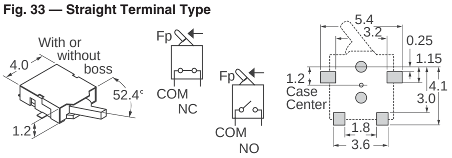

Fig. 34

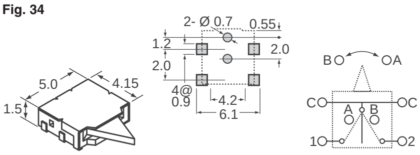

Fig. 35

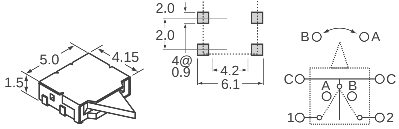

Fig.	Description	Rating	OP Force	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel		Panasonic Part No.
					1	10	100	500		Size	Pricing	
15	SMD Horizontal Mount	5VDC 10mA	35.7gf	P8097SCT-ND	.82	.62	.54	.41	P8097STR-ND	1,500	308.00/M	ESE-11MH1T
16	SMD Horizontal Mount	5VDC 10mA	35.7gf	P8098SCT-ND	.82	.62	.54	.41	P8098STR-ND	1,500	308.00/M	ESE-11MH2T
17	SMD Horizontal Mount	5VDC 10mA	31gf	P8094SCT-ND	.82	.62	.54	.41	P8094STR-ND	4,000	297.00/M	ESE-22MH2
18	SMD Horizontal Mount	5VDC 10mA	31gf	P8095SCT-ND	.82	.62	.54	.41	P8095STR-ND	4,000	297.00/M	ESE-22MH4
19	SMD Horizontal Mount	5VDC 10mA	30gf	P13374SCT-ND	.82	.62	.54	.41	P13374STR-ND	3,000	308.00/M	ESE-22MH52
20	SMD Horizontal Mount	5VDC 10mA	30gf	P13375SCT-ND	.82	.62	.54	.41	P13375STR-ND	3,000	308.00/M	ESE-22MH54
21	SMD Vertical Mount	5VDC 10mA	31gf	P8096SCT-ND	.82	.62	.54	.41	P8096STR-ND	2,000	308.00/M	ESE-2101BT
	SMD Vertical Mount, H=3.8	5VDC 10mA	30gf	P13376SCT-ND	.68	.51	.45	.34	P13376STR-ND	2,000	254.00/M	ESE-2121AT
	SMD Vertical Mount, H=3.8, with Boss	5VDC 10mA	30gf	P13377SCT-ND	.68	.51	.45	.34	P13377STR-ND	2,000	254.00/M	ESE-2121BT
22	SMD Vertical Mount, H=4.8	5VDC 10mA	30gf	P13378SCT-ND	.78	.59	.51	.40	P13378STR-ND	2,000	294.00/M	ESE-2131AT
	SMD Vertical Mount, H=4.8, with Boss	5VDC 10mA	31gf	P10869SCT-ND	.78	.59	.51	.40	P10869STR-ND	2,000	294.00/M	ESE-2131BT
	SMD Vertical Mount, H=3.6, NC	5VDC 10mA	30gf	P13379SCT-ND	1.70	1.28	1.11	.85	P13379STR-ND	2,000	636.00/M	ESE-2161AT
	SMD Vertical Mount, H=3.6, NC, with Boss	5VDC 10mA	30gf	P13380SCT-ND	1.70	1.28	1.11	.85	P13380STR-ND	2,000	636.00/M	ESE-2161BT
23	SMD Horizontal Mount SPDT	5VDC 10mA	35.7gf	P10873SCT-ND	1.12	.84	.73	.56	P10873STR-ND	1,000	405.00	ESE-24MH1T
24	SMD Horizontal Mount	5VCD 10mA	36gf	P11149SCT-ND	.67	.51	.44	.34	P11149STR-ND	1,500	250.00/M	ESE-11MH5T
25	SMD Horizontal Mount	5VCD 10mA	36gf	P11150SCT-ND	.67	.51	.44	.34	P11150STR-ND	1,500	250.00/M	ESE-11MH6T
26	SMD Horizontal Mount, J-Bent Type	5VCD 10mA	30gf	P11151SCT-ND	.97	.73	.64	.49	P11151STR-ND	3,000	351.00/M	ESE-13V01A
	SMD Horizontal Mount, J-Bent Type, with Boss	5VDC 10mA	30gf	P13354SCT-ND	.97	.73	.64	.49	P13354STR-ND	3,000	364.00/M	ESE-13V01B
27	SMD Horizontal Mount, Flat Type	5VDC 10mA	30gf	P13355SCT-ND	.97	.73	.64	.49	P13355STR-ND	3,000	364.00/M	ESE-13V01C
	SMD Horizontal Mount, Flat Type, with Boss	5VDC 10mA	30gf	P13356SCT-ND	.97	.73	.64	.49	P13356STR-ND	3,000	364.00/M	ESE-13V01D
28	SMD Horizontal Mount, J-Bent Type	5VCD 10mA	30gf	P11152SCT-ND	.97	.73	.64	.49	P11152STR-ND	5,000	351.00/M	ESE-13H01A
	SMD Horizontal Mount, J-Bent Type, with Boss	5VDC 10mA	30gf	P13357SCT-ND	.97	.73	.64	.49	P13357STR-ND	5,000	364.00/M	ESE-13H01B
29	SMD Horizontal Mount, Flat Type	5VDC 10mA	30gf	P13358SCT-ND	.97	.73	.64	.49	P13358STR-ND	5,000	364.00/M	ESE-13H01C
	SMD Horizontal Mount, Flat Type, with Boss	5VDC 10mA	30gf	P13359SCT-ND	.97	.73	.64	.49	P13359STR-ND	5,000	364.00/M	ESE-13H01D
30	SMD Horizontal Mount, NO	5VCD 10mA	30gf	P13367SCT-ND	.91	.69	.60	.46	P13367STR-ND	5,000	341.00/M	ESE-18RJ01
	SMD Horizontal Mount, NO, with Boss	5VCD 10mA	30gf	P11153SCT-ND	.91	.69	.60	.46	P11153STR-ND	5,000	329.00/M	ESE-18RJ02
	SMD Horizontal Mount, NC	5VCD 10mA	30gf	P13370SCT-ND	1.70	1.28	1.11	.85	P13370STR-ND	5,000	636.00/M	ESE-18R61A
	SMD Horizontal Mount, NC, with Boss	5VCD 10mA	30gf	P13371SCT-ND	1.70	1.28	1.11	.85	P13371STR-ND	5,000	636.00/M	ESE-18R61B
31	SMD Horizontal Mount, NO	5VCD 10mA	30gf	P13368SCT-ND	.91	.69	.60	.46	P13368STR-ND	5,000	341.00/M	ESE-18RF01
	SMD Horizontal Mount, NO, with Boss	5VCD 10mA	30gf	P13369SCT-ND	.91	.69	.60	.46	P13369STR-ND	5,000	341.00/M	ESE-18RF02
	SMD Horizontal Mount, NC	5VCD 10mA	30gf	P13372SCT-ND	1.70	1.28	1.11	.85	P13372STR-ND	5,000	636.00/M	ESE-18R61C
	SMD Horizontal Mount, NC, with Boss	5VCD 10mA	30gf	P13373SCT-ND	1.70	1.28	1.11	.85	P13373STR-ND	5,000	636.00/M	ESE-18R61D
32	SMD Horizontal Mount, NO	5VCD 10mA	30gf	P13360SCT-ND	.91	.69	.60	.46	P13360STR-ND	5,000	341.00/M	ESE-18LJ01
	SMD Horizontal Mount, NO, with Boss	5VCD 10mA	30gf	P11154SCT-ND	.91	.69	.60	.46	P11154STR-ND	5,000	329.00/M	ESE-18LJ02
	SMD Horizontal Mount, NC	5VCD 10mA	30gf	P13363SCT-ND	1.70	1.28	1.11	.85	P13363STR-ND	5,000	636.00/M	ESE-18L61A
	SMD Horizontal Mount, NO, with Boss	5VCD 10mA	30gf	P13364SCT-ND	1.70	1.28	1.11	.85	P13364STR-ND	5,000	636.00/M	ESE-18L61B
33	SMD Horizontal Mount, NO	5VCD 10mA	30gf	P13361SCT-ND	.91	.69	.60	.46	P13361STR-ND	5,000	341.00/M	ESE-18LF01
	SMD Horizontal Mount, NO, with Boss	5VCD 10mA	30gf	P13362SCT-ND	.91	.69	.60	.46	P13362STR-ND	5,000	341.00/M	ESE-18LF02
	SMD Horizontal Mount, NC	5VCD 10mA	30gf	P13365SCT-ND	1.70	1.28	1.11	.85	P13365STR-ND	5,000	636.00/M	ESE-18L61C
	SMD Horizontal Mount, NC, with Boss	5VCD 10mA	30gf	P13366SCT-ND	1.70	1.28	1.11	.85	P13366STR-ND	5,000	636.00/M	ESE-18L61D
34	SMD Horizontal Mount	5VCD 10mA	30gf	P12340SCT-ND	1.21	.91	.79	.61	P12340STR-ND	4,000	454.41/M	ESE-23J101
	SMD Horizontal Mount	5VCD 10mA	30gf	P12342SCT-ND	1.21	.91	.79	.61	P12342STR-ND	4,000	454.41/M	ESE-23F101
35	SMD Horizontal Mount	5VCD 10mA	30gf	P12341SCT-ND	1.21	.91	.79	.61	P12341STR-ND	4,000	454.41/M	ESE-23J001
	SMD Horizontal Mount	5VCD 10mA	30gf	P12343SCT-ND	1.21	.91	.79	.61	P12343STR-ND	4,000	454.41/M	ESE-23F001

Power / Push Switches

* UL, CSA, BEAB, SEMKO, VDE, SEV, FIMKO, NEMKO, DEMKO, APPROVED

Fig. 1

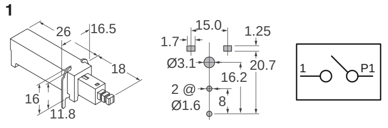

Fig. 2

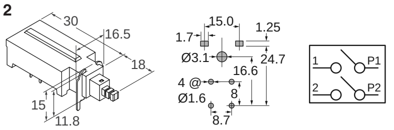

Fig. 3

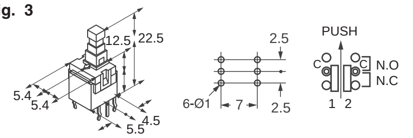

Fig. 4

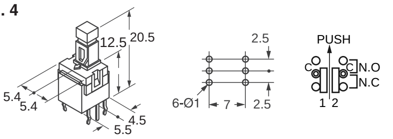

Fig. 5

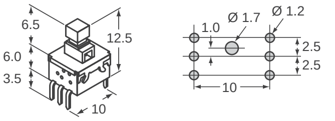

Fig.6

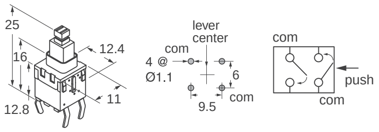

Fig.7

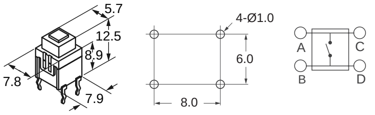

Fig. 8

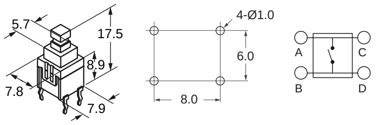

Fig. 9

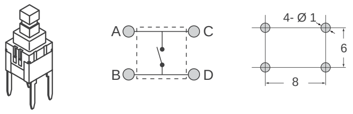

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Panasonic Part No.
1	Power Switch SPST 5A, 250VAC	P8100S-ND*	2.32	1.75	1.52	1.17	—	ESB-92S21B
2	Power Switch DPST 5A, 250VAC	P8101S-ND*	2.98	2.24	1.94	1.49	—	ESB-92D21B
3	Push Switch Soft Sound DPDT, 200mA, 14VDC	P11163S-ND	2.45	1.84	1.60	1.23	—	ESB-30A105
4	Push Switch Soft Sound DPDT, 200mA, 14VDC	P11164S-ND	2.45	1.84	1.60	1.23	—	ESB-30B102
5	Push Switch DPDT, 200mA, 14VDC	P13353S-ND	2.02	1.52	1.32	1.01	.84	ESB-33133
6	Push Switch DPST 3A, 12VDC	P8102S-ND	3.08	2.31	2.00	1.54	1.16	ESB-32101A
7	Push Switch Momentary SPST, 200mA, 14VDC, 200gF	P11161S-ND	1.82	1.37	1.19	.91	—	ESE-20C321
7	Push Switch Momentary SPST, 200mA, 14VDC, 200gF	P12344S-ND	1.82	1.37	1.19	.91	.69	ESE-20C323
7	Push Switch Momentary SPST, 200mA, 14VDC, 400gF	P12346S-ND	1.82	1.37	1.19	.91	.69	ESE-20C343
7	Push Switch Momentary SPST, 200mA, 14VDC, 200gF	P12349S-ND	1.82	1.37	1.19	.91	.69	ESE-20C421
7	Push Switch Momentary SPST, 200mA, 14VDC, 200gF	P12345S-ND	1.82	1.37	1.19	.91	.69	ESE-20C423
7	Push Switch Momentary SPST, 200mA, 14VDC, 400gF	P12347S-ND	1.82	1.37	1.19	.91	.69	ESE-20C443
8	Push Switch Momentary SPST, 200mA, 14VDC, 400gF	P11162S-ND	1.82	1.37	1.19	.91	—	ESE-20C441
	Approved for Automobile Use							
9	Push Switch Momentary SPST, 200mA, 14VDC, 200gF	P12354S-ND	1.82	1.37	1.19	.91	.69	ESE-20D321
9	Push Switch Momentary SPST, 200mA, 14VDC, 200gF	P12350S-ND	1.82	1.37	1.19	.91	.69	ESE-20D323
9	Push Switch Momentary SPST, 200mA, 14VDC, 400gF	P12356S-ND	1.82	1.37	1.19	.91	.69	ESE-20D341
9	Push Switch Momentary SPST, 200mA, 14VDC, 400gF	P12352S-ND	1.82	1.37	1.19	.91	.69	ESE-20D343
9	Push Switch Momentary SPST, 200mA, 14VDC, 200gF	P12355S-ND	1.82	1.37	1.19	.91	.69	ESE-20D421
9	Push Switch Momentary SPST, 200mA, 14VDC, 200gF	P12351S-ND	1.82	1.37	1.19	.91	.69	ESE-20D423
9	Push Switch Momentary SPST, 200mA, 14VDC, 400gF	P12357S-ND	1.82	1.37	1.19	.91	.69	ESE-20D441
9	Push Switch Momentary SPST, 200mA, 14VDC, 400gF	P12353S-ND	1.82	1.37	1.19	.91	.69	ESE-20D443

Slide Switches

Fig. 1

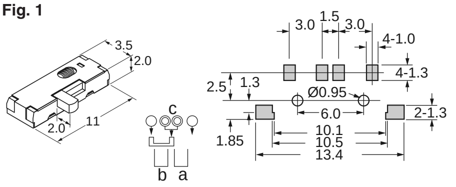

Fig. 2

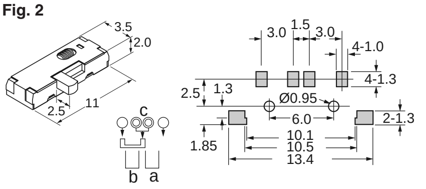

Fig. 3

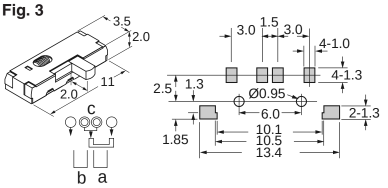

Fig. 4

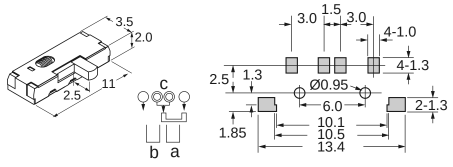

Fig. 5

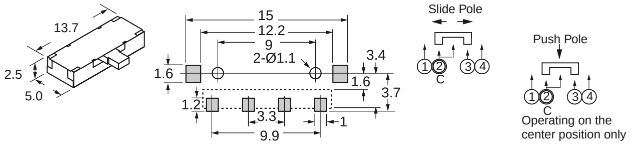

Fig. 6

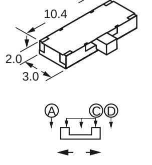

Fig.	Description	Rating	OP Force	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Panasonic Part No.
1	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11157SCT-ND	2.12	1.59	1.38	1.07	P11157STR-ND	2,000	769.00/M	ESD-165225
2	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11158SCT-ND	2.12	1.59	1.38	1.07	P11158STR-ND	2,000	769.00/M	ESD-165226
3	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11159SCT-ND	2.12	1.59	1.38	1.07	P11159STR-ND	2,000	769.00/M	ESD-165235
4	SMD 2mm Horizontal Self-return	5VDC, 200mA	216gf	P11160SCT-ND	2.12	1.59	1.38	1.07	P11160STR-ND	2,000	769.00/M	ESD-165236
5	SMD Multi Function Slide + Push	10VDC, 1mA	40gf	P11155SCT-ND	6.06	4.55	3.94	3.03	P11155STR-ND	1,400	2272.00/M	ESE-15700
6	SMD Multi Function Slide	10VDC, 1mA	125gf	P11156SCT-ND	1.82	1.37	1.19	.91	P11156STR-ND	1,500	682.00/M	ESE-15800

NEW! DDS Series
Micro Mini Thru-Hole Detect Switches

The DDS series deliver 2mm over-travel, making them ideally suited for detector applications such as CD ROM card readers, copiers and medical. **Contact Rating:** 0.1A @ 30VDC **Operating Temperature:** -25°C ~ 80°C **Life Cycles:** 50,000 **Operating Force:** Less than 40gF

DDS001

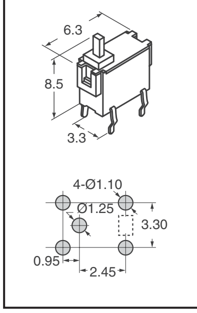

DDS002

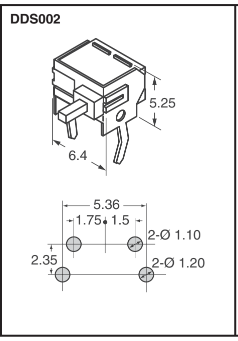

DDS003

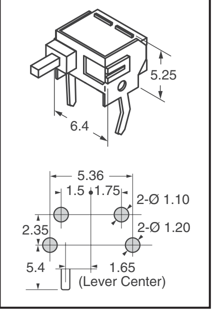

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Vertical Mount	401-1734-ND	.94	.76	.60	DDS001
Horizontal Mount	401-1735-ND	1.03	.83	.66	DDS002
Horizontal Mount	401-1736-ND	1.03	.83	.66	DDS003

NEW! SDS Series Side Actuated Detect Switches

Standing only 2mm off PCB covering 5.7mm x 5.0mm of board space, with both NO and NC, makes these switches ideal for any detection need.

Actuation Force: 100gF maximum
Contact Rating: 100mA @ 12VDC
Operating Temperature: -20°C ~ 60°C

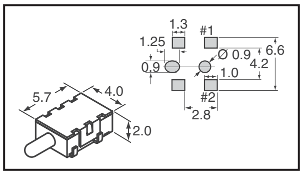

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
SPST-NO, Pushbutton, Right Angle	401-1737-ND	1.05	.84	.67	SDS001
SPST-NC, Pushbutton, Right Angle	401-1738-ND	1.05	.84	.67	SDS002

KSU Series
Micro Mini Detector Switch

The KSU is a top actuated multi contact detector switch without tactile feedback and with NO contacts.

Circuit: SPST
Minimum/Maximum Voltage: 20mV/50V
Minimum/Maximum Current: .01mA/10mA
Life Expectancy: 100,000 operations
Operating Force: 110 Grams
Contacts: Gold
Operating Temperature: -40°C ~ 125°C

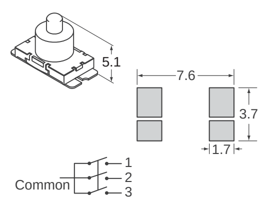

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 1,000	ITT Industries Part No.
7 x 3.5mm, NO Metal Actuator, Gullwing	401-1598-1-ND	.93	.86	.79	514.80	KSU213WLFG

*For Tape and Reel part number, change 1-ND to 2-ND.

NEW! HDT Series Micro Mini SMT Detect Switch

The HDT Series is low profile, sitting just 3.35mm off PCB. With its low actuation force, it can be used with medical devices, computers and consumer electronics.

Contact Rating: 1mA @ 5VDC
Operating Temperature: -15°C ~ 70°C

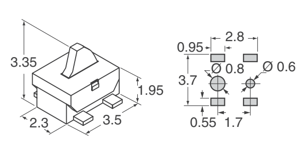

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 2,450	ITT Industries Part No.
Low Profile, SPST-NO, 30gF	401-1733-1-ND	1.34	1.24	1.14	743.00/M	HDT0001

*For Tape and Reel part number, change 1-ND to 2-ND.

KSM Series
SMT Detector Switches

KSM is a miniature low profile switch using a single pole NC contact. Actuation is made parallel to the PCB. Volume control and push to talk switch for portable phone. Soft tactile feel applications.

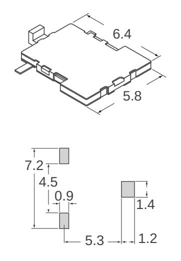

Circuit: SPST-NC

Switching: • Voltage Maximum: 24VDC
• Current Maximum: 50mA

Operating Life: ≥50⁴

Operating Force: 90 Grams

Operating Temperature: -40°C ~ 85°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing* 2,000	ITT Industries Part No.
Side Actuated, 90gF, Flux Sealed	401-1806-1-ND† ***NEW!***	1.57	1.46	1.34	871.20/M	KSM1131ZLFG

*For Tape and Reel part number, change 1-ND to 2-ND. † ***RoHS Compliant***

NEW! MDS Series
Micro Snap-Acting Detect Switches

Snap-acting tactile feel, small package size, with 2.9mm total travel.

Applications: Medical devices, consumer electronics, detect the presence of a mechanical device.

Contacts: 300mA @ 6VDC **Life Expectancy:** 10,000 operations **Operating Temperature:** -25°C ~ 70°C

MDS001

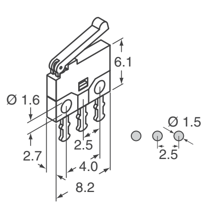

MDS002

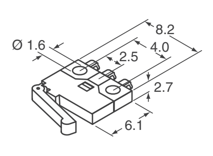

MDS003

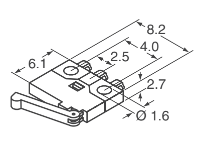

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Vertical SPDT	401-1739-ND	1.71	1.38	1.09	MDS001
Right Angle, Left Bend SPDT	401-1740-ND	2.20	1.77	1.40	MDS002
Right Angle, Right Bend SPDT	401-1741-ND	2.20	1.77	1.40	MDS003

NEW! ZM Series
Subminiature Snap-Acting Detect Switches

Features:
Reliable snap-acting mechanism in a compact size - ideal when space is limited.

Applications:
PCB detection switch communication devices, testing equipment, security/alarm systems

Contact Rating: 3A @ 125VAC
Operating Temperature: -25°C ~ 85°C
Operating Force: 150gF
Contact Material: Silver, gold plated
Life Cycle: 15,000

ZMCJF7P0T

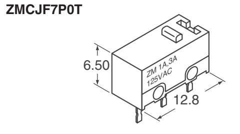

ZMCJF7L0T

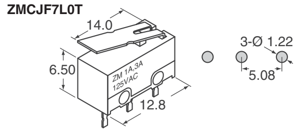

Right Footed

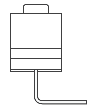

Left Footed

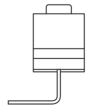

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Vertical, Thru-Hole, Button Actuator	401-1742-ND	1.70	1.37	1.08	ZMCJF7P0T
Left-footed, Button Actuator	401-1743-ND	2.21	1.77	1.40	ZMCJF7P0L
Right-footed, Button Actuator	401-1744-ND	2.21	1.77	1.40	ZMCJF7P0R
Vertical, Thru-Hole, Leaf Actuator	401-1745-ND	1.78	1.43	1.13	ZMCJF7L0T
Left-footed, Leaf Actuator	401-1746-ND	2.29	1.83	1.45	ZMCJF7L0L
Right-footed, Leaf Actuator	401-1747-ND	2.29	1.83	1.45	ZMCJF7L0R

OMRON® Momentary Tact Switches

CHARACTERISTICS: • **Switching Capacity:** 50mA, 24VDC (resistive load) • **Contact Resistance:** 100mΩ maximum • **Bounce Time:** 5ms maximum • **Vibration:** Malfunction durability: 10 ~ 55Hz, 1.5mm double amplitude • **Shock:** Mechanical durability: 1,000m/s² (approximate 100G); Malfunction durability: 100m/s² (approximate 10G) • **Ambient Temperature:** Operating: -25°C ~ 70°C • **Service Life:** • ***B3F-1 Series, B3F-3 Series*** — Mechanical/Electrical: 1 x 10⁶ (0.3 x 10⁶) operations minimum • ***B3F-4 Series*** — Mechanical/Electrical: 3 x 10⁶ (0.3 x 10⁶) operations minimum • ***B3S-1 Series*** — Mechanical/Electrical: General-purpose type: 500,000 operations minimum; High-load type: 300,000 operations minimum • ***B3W-1 Series*** — Mechanical/Electrical: General-purpose type: 1,000,000 operations minimum; High-load type: 300,000 operations minimum • ***B3W-4 Series*** — Mechanical/Electrical: General-purpose type: 3,000,000 operations minimum; High-load type: 1,000,000 operations minimum

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Pricing 1	25	50	100	Omron Part No.
	6 MM (not washable)							
1	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	4.3	SW400-ND	.20	4.50	8.00	14.40	B3F-1000
	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 150gf	4.3	SW401-ND	.23	5.06	9.00	16.20	B3F-1002
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 260gf	4.3	SW793-ND	.28	6.38	11.34	20.41	B3F-1005
	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	5.0	SW402-ND	.23	5.06	9.00	16.20	B3F-1020
	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 150gf	5.0	SW403-ND	.23	5.06	9.00	16.20	B3F-1022
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 150 gf	5.0	SW849-ND	.31	6.90	12.27	22.09	B3F-1122
	Tact Switch, High Force, Flat Actuator without Ground Terminal — 260gf	5.0	SW794-ND	.30	6.81	12.10	21.78	B3F-1025
	Tact Switch, Low Force, Flat Actuator without Ground Terminal — 100gf	9.5	SW406-ND	.25	5.63	10.00	18.00	B3F-1070
2	Tact Switch, Low Force, Projected Actuator without Ground Terminal — 100gf	7.3	SW404-ND	.23	5.06	9.00	16.20	B3F-1050
	Tact Switch, Medium Force, Projected Actuator with Ground Terminal — 150 gf	7.3	SW850-ND	.31	6.90	12.27	22.09	B3F-1152
	Tact Switch, Medium Force, Projected Actuator without Ground Terminal — 150gf	7.3	SW405-ND	.23	5.06	9.00	16.20	B3F-1052
	Tact Switch, High Force, Projected Actuator without Ground Terminal — 260gf	7.3	SW795-ND	.47	10.61	18.86	33.95	B3F-1055
3	Tact Switch, Low Force, Right Angle, Flat Actuator — 100gf	3.85	SW407-ND	.30	6.75	12.00	21.60	B3F-3120
	Tact Switch, Medium Force, Right Angle, Flat Actuator — 150gf	3.85	SW408-ND	.30	6.75	12.00	21.60	B3F-3122
	Tact Switch, High Force, Right Angle, Flat Actuator — 260gf	3.85	SW851-ND	.30	6.75	12.00	21.60	B3F-3125
4	Tact Switch, Low Force, Right Angle, Projected Actuator — 100gf	6.15	SW409-ND	.30	6.75	12.00	21.60	B3F-3150
	Tact Switch, Medium Force, Right Angle, Projected Actuator — 150gf	6.15	SW410-ND	.30	6.75	12.00	21.60	B3F-3152
	6 MM Gold Plated Contacts (not washable)							
1	Tact Switch, Gold Plated Contact, Flat Actuator without Ground Terminal — 150gf	4.3	SW787-ND	2.61	58.78	104.50	188.10	B3F-1002-G
	Tact Switch, Gold Plated Contact, Flat Actuator with Ground Terminal — 150gf	4.3	SW789-ND	2.75	61.86	109.97	197.95	B3F-1102-G
	Tact Switch, Gold Plated Contact, Flat Actuator without Ground Terminal — 150gf	5.0	SW788-ND	2.61	58.78	104.50	188.10	B3F-1022-G
	Tact Switch, Gold Plated Contact, Flat Actuator with Ground Terminal — 150gf	5.0	SW790-ND	2.75	61.86	109.97	197.95	B3F-1122-G
	6 MM Process Sealed (not water washable)							
5	SMT Flat Actuator without Ground Terminal — 160gf	4.3	SW415-ND	.45	10.13	18.00	32.40	B3S-1000
	SMT Flat Actuator without Ground Terminal — 230gf	4.3	SW416-ND	.45	10.13	18.00	32.40	B3S-1002
6	Tact Switch Flat Actuator without Ground Terminal — 160gf	4.3	SW417-ND	.35	7.88	14.00	25.20	B3W-1000BYOMZ
	Tact Switch Flat Actuator without Ground Terminal — 230gf	4.3	SW418-ND	.35	7.88	14.00	25.20	B3W-1002BYOMZ
7	Tact Switch Projected Actuator without Ground Terminal — 160gf	4.3	SW419-ND	.35	7.88	14.00	25.20	B3W-1050BYOMZ
	Tact Switch Projected Actuator without Ground Terminal — 230gf	4.3	SW420-ND	.35	7.88	14.00	25.20	B3W-1052BYOMZ
	Tact Switch Projected Actuator with Ground Terminal — 160gf	4.3	SW853-ND	.50	11.20	19.91	35.84	B3W-1100
	12 MM (not washable)							
8	Tact Switch Standard, Flat Actuator without Ground Terminal — 130gf	4.3	SW411-ND	.30	6.75	12.00	21.60	B3F-4000
	Tact Switch Standard, Flat Actuator without Ground Terminal — 260gf	4.3	SW412-ND	.30	6.75	12.00	21.60	B3F-4005
9	Tact Switch Standard, Projected Actuator without Ground Terminal — 130gf	7.3	SW413-ND	.30	6.75	12.00	21.60	B3F-4050
	Tact Switch Standard, Projected Actuator with Ground Terminal — 130gf	7.3	SW835-ND	.51	11.44	20.33	36.59	B3F-4150
	Tact Switch Standard, Projected Actuator without Ground Terminal — 260gf	7.3	SW414-ND	.30	6.75	12.00	21.60	B3F-4055
5	Tact Switch, Long Service Life, Flat Actuator without Ground Terminal — 130gf	4.3	SW800-ND	.45	10.23	18.19	32.74	B3F-5000
9	Tact Switch, Long Service Life, Projected Actuator w/out Ground Terminal — 130gf	4.3	SW801-ND	.45	10.23	18.19	32.74	B3F-5050
	Tact Switch, Long Service Life, Projected Actuator with Ground Terminal — 130gf	4.3	SW852-ND	.45	10.23	18.19	32.74	B3F-5100
	12 MM Process Sealed (not water washable)							
10	Tact Switch, Medium Force, Flat Actuator without Ground Terminal — 200gf	4.3	SW421-ND	.43	9.56	17.00	30.60	B3W-4000BYOMZ
	Tact Switch, Medium Force, Flat Actuator with Ground Terminal — 200gf	4.3	SW854-ND	.59	13.31	23.67	42.61	B3W-4100
9	Tact Switch, Medium Force, Projected Actuator without Ground Terminal — 200gf	7.3	SW422-ND	.43	9.56	17.00	30.60	B3W-4050BYOMZ
	Tact Switch, High Force, Projected Actuator without Ground Terminal — 350gf	7.3	SW838-ND	.72	16.12	28.66	51.59	B3W-4055BYOMZ
	Tact Switch, Medium Force, Projected Actuator with Ground Terminal — 200gf	7.3	SW839-ND	.59	13.31	23.67	42.61	B3W-4150BYOMZ
	Tact Switch, High Force, Flat Actuator with Ground Terminal — 350gf	7.3	SW856-ND	.59	13.31	23.67	42.61	B3W-4155
	B3F and B3W Key Caps for Projected Actuator							
11	Key Cap 4 x 4mm Light Grey/Tan, Fits 6mm Projected Actuator Types	—	SW450-ND	.43	5.25	8.84	15.81	B32-1000
	Key Cap 4 x 4mm Black, Fits 6mm Projected Actuator Types	—	SW451-ND	.43	5.25	8.84	15.81	B32-1010
	Key Cap 4 x 4mm Orange, Fits 6mm Projected Actuator Types	—	SW845-ND	.18	3.94	7.00	12.60	B32-1020
	Key Cap 4 x 4mm Yellow, Fits 6mm Projected Actuator Types	—	SW249-ND	.43	5.25	8.84	15.81	B32-1030
	Key Cap 4 x 4mm Blue, Fits 6mm Projected Actuator Types	—	SW250-ND	.43	5.25	8.84	15.81	B32-1040
	Key Cap 4 x 4mm White, Fits 6mm Projected Actuator Types	—	SW251-ND	.43	5.25	8.84	15.81	B32-1060
	Key Cap 4 x 4mm Red, Fits 6mm Projected Actuator Types	—	SW252-ND	.43	5.25	8.84	14.37	B32-1080
12	Key Cap 9 x 9mm Light Grey/Tan, Fits 12mm Projected Actuator Types	9	SW452-ND	.43	5.25	8.84	15.81	B32-1200
	Key Cap 9 x 9mm Black, Fits 12mm Projected Actuator Types	9	SW453-ND	.43	5.25	8.84	15.81	B32-1210
	Key Cap 9 x 9mm Yellow, Fits 12mm Projected Actuator Types	9	SW253-ND	.43	5.25	8.84	15.81	B32-1230
	Key Cap 9 x 9mm Blue, Fits 12mm Projected Actuator Types	9	SW254-ND	.43	5.25	8.84	15.81	B32-1240
	Key Cap 9 x 9mm Green, Fits 12mm Projected Actuator Types	9	SW846-ND	.18	3.94	7.00	12.60	B32-1250
	Key Cap 9 x 9mm White, Fits 12mm Projected Actuator Types	9	SW255-ND	.43	5.25	8.84	15.81	B32-1260
	Key Cap 9 x 9mm Red, Fits 12mm Projected Actuator Types	9	SW256-ND	.43	5.25	8.84	15.81	B32-1280
	Key Cap 12 x 12mm Light Grey/Tan, Fits 12mm Projected Actuator Types	12	SW454-ND	.43	5.25	8.84	15.81	B32-1300
	Key Cap 12 x 12mm Black, Fits 12mm Projected Actuator Types	12	SW455-ND	.43	5.25	8.84	15.81	B32-1310
	Key Cap 12 x 12mm Yellow, Fits 12mm Projected Actuator Types	12	SW257-ND	.43	5.25	8.84	15.81	B32-1330
	Key Cap 12 x 12mm Blue, Fits 12mm Projected Actuator Types	12	SW258-ND	.43	5.25	8.84	15.81	B32-1340
	Key Cap 12 x 12mm White, Fits 12mm Projected Actuator Types	12	SW259-ND	.43	5.25	8.84	15.81	B32-1360
	Key Cap 12 x 12mm Red, Fits 12mm Projected Actuator Types	12	SW260-ND	.43	5.25	8.84	15.81	B32-1380
13	Key Cap 9.5mm Diameter, Black, Fits 12mm Projected Actuator Type	—	SW847-ND	.32	7.19	12.78	23.00	B32-1610
	Key Cap 9.5mm Diameter, Yellow, Fits 12mm Projected Actuator Type	—	SW848-ND	.32	7.19	12.78	23.00	B32-1630
	6MM Long Stroke Tact Switch							
14	Tact Switch with Long Stroke and Positive Click — 70gf	7.3	SW426-ND	.63	14.06	25.00	45.00	B3M-6009

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Cut Tape Pricing 1	25	50	Digi-Key Part No.	Tape and Reel Size	Pricing	Omron Part No.
	6 MM Auto Placement; Flat Actuator (not washable)									
15	Tact Switch Auto-Placement 6mm Square — 100gf	4.3	SW263CT-ND	.30	6.82	12.37	SW263TB-ND*	1,000	125.00	B3F-6000BYOMZ
	Tact Switch Auto-Placement 6mm Square — 150gf	4.3	SW797-ND	.34	7.72	13.72	—	—	—	B3F-6002BYOMZ
	Tact Switch Auto-Placement 6mm Square — 100gf	5.0	SW796-ND	.37	8.25	14.67	—	—	—	B3F-6050BYOMZ
	Tact Switch Auto-Placement 6mm Square — 150gf	5.0	SW264CT-ND	.32	7.22	13.11	SW264TB-ND*	1,000	137.50	B3F-6022BYOMZ
	6 MM Auto Placement; Projected Actuator (not washable)									
16	Tact Switch Auto-Placement 6mm Square — 100gf	7.3	SW798-ND	.39	8.81	15.66	—	—	—	B3F-6050
	Tact Switch Auto-Placement 6mm Square — 150gf	7.3	SW799-ND	.39	8.81	15.66	—	—	—	B3F-6052BYOMZ
17	Tact Switch Auto-Placement, Water Tight, Dust Sealed	—	SW425CT-ND	.51	11.48	20.83	SW425TB-ND*	1,000	212.50	B3WN-6002
	6 MM Process Sealed (not water washable)									
18	SMT Flat Actuator without Ground Terminal — 160gf	3.1	SW261CT-ND	.76	17.08	30.99	SW261TR-ND**	3,000	325.00/M	B3SN-3012P
	SMT Flat Actuator without Ground Terminal — 160gf	3.1	SW262CT-ND	.76	17.08	30.99	SW262TR-ND**	3,000	325.00/M	B3SN-3112P
19	SMT Tact Switch 6mm Square (snap-action) — 100gf	3.1	SW423CT-ND	.45	10.13	18.38	SW423TR-ND**	3,000	187.50/M	B3FS-1000P
	SMT Tact Switch 6mm Square — 160gf	4.3	SW836CT-ND	.55	12.38	22.00	SW836TR-ND**	1,000	297.00	B3S-1000P
	SMT Tact Switch 6mm Square (snap-action) — 150gf	3.1	SW424CT-ND	.41	9.18	16.66	SW424TR-ND**	3,000	170.00/M	B3FS-1002P
	SMT Tact Switch 6mm Square — 230gf	4.3	SW837CT-ND	.55	12.38	22.00	SW837TR-ND**	1,000	297.00	B3S-1002P
	SMT Tact Switch 6mm Square — 160gf	4.3	SW844CT-ND	.71	16.06	29.14	SW844TR-ND**	1,000	297.38	B3S-1100P
	6 MM Process Sealed; Projected Actuator (not water washable)									
20	SPST Tact Switch 6mm Square (snap-action) — 100gf	7.3	SW791-ND	.66	14.77	26.26	—	—	—	B3FS-1050
	SPST Tact Switch 6mm Square (snap-action) — 150gf	7.3	SW792-ND	.66	14.77	26.26	—	—	—	B3FS-1052

* TB = Tape and Box ** TR = Tape and Reel

Fig. 1

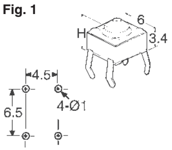

Fig. 2

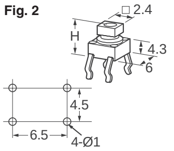

Fig. 3

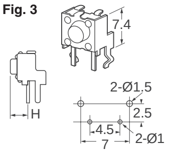

Fig. 4

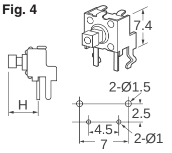

Fig. 5

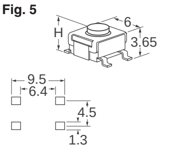

Fig. 6

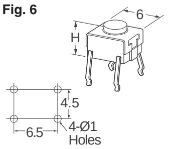

Fig. 7

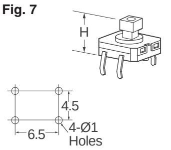

Fig. 8

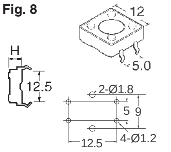

Fig. 9

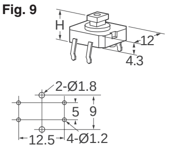

Fig. 10

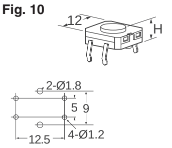

Fig. 11

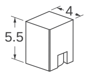

Fig. 12

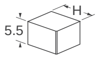

Fig. 13

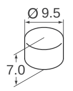

Fig. 14

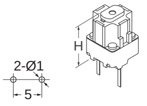

Fig. 15

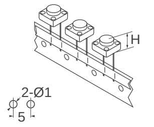

Fig. 16

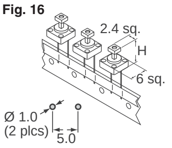

Fig. 17
Sealed

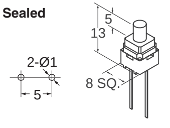

Fig. 18

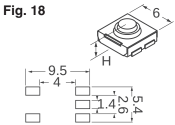

Note: Eliminate center pad for "without GND Terminal"

Fig. 19

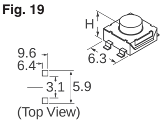

(Top View)
(One-Side PCB t=1.6)

Fig. 20

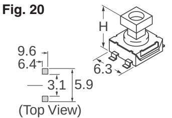

(Top View)
(One-Side PCB t=1.6)

E-SWITCH®

Momentary Tact Switches

Fig.	Description	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		E-Switch Part No.
			1	10	100		Size	Pricing	
1	Tact Switch 12mm Square Extended Actuator, Actuator Length = 7.3	EG1821-ND	.47	.38	.34	—	—	—	TL1100F160Q
2	Tact Switch Right Angle 12mm Square Extended Actuator, Actuator Length = 7.3	EG1822-ND	.58	.47	.42	—	—	—	TL1100CF160Q
3	Key Cap, W=12 x 12mm Black, Fits 12mm Extended Actuator Types	EG1080-ND	.22	.18	.17	—	—	—	4J BLACK
	Key Cap, W=12 x 12mm Grey, Fits 12mm Extended Actuator Types	EG1079-ND	.22	.18	.17	—	—	—	4J GREY
	Key Cap, W=12 x 12mm Red, Fits 12mm Extended Actuator Types	EG1078-ND	.22	.18	.17	—	—	—	4J RED
	Key Cap, W=12 x 12mm White, Fits 12mm Extended Actuator Types	EG1077-ND	.22	.18	.17	—	—	—	4J WHITE
	Key Cap, W=8 x 8mm Black Fits, 12mm Extended Actuator Types	EG1885-ND	.18	.16	.14	—	—	—	6J BLK
	Key Cap, W=8 x 8mm Red Fits, 12mm Extended Actuator Types	EG1886-ND	.18	.16	.14	—	—	—	6J RED
	Key Cap, W=8 x 8mm White Fits, 12mm Extended Actuator Types	EG1887-ND	.18	.16	.14	—	—	—	6J WHT
	Key Cap, W=8 x 8mm Grey Fits, 12mm Extended Actuator Types	EG1888-ND	.18	.16	.14	—	—	—	6J GRY
4	Tact Switch 12mm Square Flat Actuator	EG1023-ND	.50	.40	.37	—	—	—	TL1100DF160Q
	Tact Switch SMT 3.44mm Actuator 160gf Gull Wing	EG2530CT-ND	.81	.65	.59	EG2530TR-ND	1,500	324.00/M	TL3304AF160QG/TR
5	Tact Switch 12mm Square Post Actuator, Actuator Length = 12.0	EG1024-ND	.44	.36	.33	—	—	—	TL1100FF160Q
6	Tact Switch 12mm Square Right Angle Post Actuator, Actuator Length = 9.0	EG1025-ND	.83	.67	.61	—	—	—	TL1100GF160Q
—	Key Cap, Rectangular Black, Fits 12mm Post Actuator Types	EG1076-ND	.45	.36	.33	—	—	—	TAA BLACK
	Key Cap, Rectangular White, Fits 12mm Post Actuator Types	EG1075-ND	.45	.36	.33	—	—	—	TAA WHITE
	Key Cap, Rectangular Grey, Fits 12mm Post Actuator Types	EG1074-ND	.45	.36	.33	—	—	—	TAA GREY
	Key Cap, Rectangular Red, Fits 12mm Post Actuator Types	EG1073-ND	.45	.36	.33	—	—	—	TAA RED
7	Tact Switch 12mm Square Long Flat Actuator	EG1826-ND	.44	.36	.33	—	—	—	TL1100EF160Q
8	Tact Switch 6mm Square 4.3mm Actuator 160gf	EG1827-ND	.30	.25	.22	—	—	—	TL1105F160Q
	Tact Switch 6mm Square 4.3mm Actuator 250gf	EG1828-ND	.30	.25	.22	—	—	—	TL1105F250Q
	Tact Switch 6mm Square 5mm Actuator 160gf	EG1829-ND	.30	.25	.22	—	—	—	TL1105AF160Q
	Tact Switch 6mm Square 5mm Actuator 250gf	EG1830-ND	.30	.25	.22	—	—	—	TL1105AF250Q
	Tact Switch 6mm Square 7.3mm Actuator 160gf	EG1831-ND	.30	.25	.22	—	—	—	TL1105EF160Q
	Tact Switch 6mm Square 7.3mm Actuator 250gf	EG1832-ND	.30	.25	.22	—	—	—	TL1105EF250Q
	Tact Switch 6mm Square 9.5mm Actuator 100gf	EG2497-ND	.19	.16	.14	—	—	—	TL1105BF100Q
	Tact Switch 6mm Square 9.5mm Actuator 160gf	EG1833-ND	.30	.25	.22	—	—	—	TL1105BF160Q
	Tact Switch 6mm Square 9.5mm Actuator 250gf	EG1834-ND	.30	.25	.22	—	—	—	TL1105BF250Q
	Tact Switch 6mm Square 13mm Actuator 160gf	EG1865-ND	.30	.25	.22	—	—	—	TL1105DF160Q
	Tact Switch 6mm Square 13mm Actuator 250gf	EG1866-ND	.30	.25	.22	—	—	—	TL1105DF250Q
	Tact Switch 6mm Square 5mm Actuator 100gf	EG2495-ND	.19	.16	.14	—	—	—	TL1105AF100Q
	Tact Switch 6mm Square Gold Plating 5mm Actuator 160gf	EG2493-ND	.99	.80	.72	—	—	—	TL1105AF160R
	Tact Switch 6mm Square 13.0mm Actuator 100gf	EG2498-ND	.19	.16	.14	—	—	—	TL1105DF100Q
	Tact Switch 6mm Square 7.3mm Actuator 100gf	EG2496-ND	.19	.16	.14	—	—	—	TL1105EF100Q
	Tact Switch 6mm Square 4.3mm Actuator 100gf	EG2494-ND	.16	.13	.12	—	—	—	TL1105F100Q
	Tact Switch 6mm Square Gold Plating 4.3mm Actuator 160gf	EG2492-ND	.99	.80	.72	—	—	—	TL1105F160R
	Tact Switch 6mm Square 17mm Actuator 100gf	EG2504-ND	.19	.16	.14	—	—	—	TL1105LF100Q
	Tact Switch 6mm Square 17mm Actuator 160gf	EG2505-ND	.19	.16	.14	—	—	—	TL1105LF160Q
	Tact Switch 6mm Square 17mm Actuator 250gf	EG2506-ND	.19	.16	.14	—	—	—	TL1105LF250Q
	Tact Switch 6mm Square 5.0mm Actuator 160gf with ESD	EG2491-ND	.29	.24	.21	—	—	—	TLE1105AF160Q
	Tact Switch 6mm Square 4.3mm Actuator 160gf with ESD	EG2490-ND	.29	.24	.21	—	—	—	TLE1105F160Q
9	Tact Switch 6mm Square Right Angle 3.15mm Actuator 160gf	EG1835-ND	.44	.36	.33	—	—	—	TL1105WF160Q
	Tact Switch 6mm Square Right Angle 3.15mm Actuator 250gf	EG1836-ND	.44	.36	.33	—	—	—	TL1105WF250Q
	Tact Switch 6mm Square Right Angle 6.15mm Actuator 160gf	EG1837-ND	.44	.36	.33	—	—	—	TL1105RF160Q
	Tact Switch 6mm Square Right Angle 6.15mm Actuator 250gf	EG1838-ND	.44	.36	.33	—	—	—	TL1105RF250Q
	Tact Switch 6mm Square Right Angle 8.35mm Actuator 160gf	EG1839-ND	.40	.32	.29	—	—	—	TL1105SF160Q
	Tact Switch 6mm Square Right Angle 8.35mm Actuator 250gf	EG1840-ND	.40	.32	.29	—	—	—	TL1105SF250Q
	Tact Switch 6mm Square Right Angle 6.15mm Actuator 100gf	EG2500-ND	.36	.29	.26	—	—	—	TL1105RF100Q
	Tact Switch 6mm Square Right Angle 8.35mm Actuator 100gf	EG2501-ND	.36	.29	.26	—	—	—	TL1105SF100Q
	Tact Switch 6mm Square Right Angle 3.85mm Actuator 100gf	EG2507-ND	.36	.29	.26	—	—	—	TL1105VF100Q
	Tact Switch 6mm Square Right Angle 3.85mm Actuator 160gf	EG2508-ND	.36	.29	.26	—	—	—	TL1105VF160Q
	Tact Switch 6mm Square Right Angle 3.85mm Actuator 250gf	EG2509-ND	.36	.29	.26	—	—	—	TL1105VF250Q
	Tact Switch 6mm Square Right Angle 3.15mm Actuator 100gf	EG2499-ND	.36	.29	.26	—	—	—	TL1105WF100Q
10	Tact Switch 6mm Square 7.5mm Extended Actuator 100gf	EG2502-ND	.19	.16	.14	—	—	—	TL1105SPF100Q
	Tact Switch 6mm Square 7.5mm Extended Actuator 160gf	EG1861-ND	.36	.29	.26	—	—	—	TL1105SPF160Q
	Tact Switch 6mm Square 7.5mm Extended Actuator 250gf	EG1862-ND	.36	.29	.26	—	—	—	TL1105SPF250Q
11	Tact Switch 6mm Square Right Angle 2.8mm Extended Actuator 100gf	EG2503-ND	.50	.40	.36	—	—	—	TL1105JAF100Q
	Tact Switch 6mm Square Right Angle 2.8mm Extended Actuator 160gf	EG1863-ND	.61	.49	.45	—	—	—	TL1105JAF160Q
	Tact Switch 6mm Square Right Angle 2.8mm Extended Actuator 250gf	EG1864-ND	.61	.49	.45	—	—	—	TL1105JAF250Q
12	Tact Switch 6mm Square SMT 4.3mm Actuator 160gf	EG1867CT-ND	.56	.45	.41	EG1867TR-ND	1,200	222.30/M	TL3301NF160QG/TR
	Tact Switch 6mm Square SMT 4.3mm Actuator 260gf	EG1868CT-ND	.56	.45	.41	EG1868TR-ND	1,000	237.12	TL3301NF260QG/TR
	Tact Switch 6mm Square SMT 5.0mm Actuator 160gf Gull Wing	EG2526CT-ND	.45	.36	.33	EG2526TR-ND	1,000	192.00	TL3301AF160QG/TR
	Tact Switch 6mm Square SMT 5.0mm Actuator 260gf Gull Wing	EG2527CT-ND	.45	.36	.33	EG2527TR-ND	1,000	180.00	TL3301AF260QG/TR
13	Tact Switch 6mm Square SMT 7.3mm Extended Actuator 160gf	EG1869CT-ND	.45	.36	.33	EG1869TR-ND	700	142.80	TL3301SPF160QG
	Tact Switch 6mm Square SMT 7.3mm Extended Actuator 260gf	EG1870CT-ND	.45	.36	.33	EG1870TR-ND	700	142.80	TL3301SPF260QG
14	Tact Switch 6.2mm Square, H=5.00mm Actuator 160gf	EG2533CT-ND	.31	.25	.23	EG2533TB-ND†	1,000	133.28	TL59AF160Q
	Tact Switch 6.2mm Square, H=4.3mm Actuator 160gf	EG2532CT-ND	.31	.25	.23	EG2532TB-ND†	1,000	133.28	TL59NF160Q
—	Tact Switch SMT 1.5mm Actuator 160gf Gull Wing	EG2531CT-ND	1.08	.87	.78	EG2531TR-ND	3,000	431.55/M	TL3342F160QG/TR
15	Tact Switch 6 x 3.5mm, H=4.3mm 130gf	EG2510-ND	.36	.29	.26	—	—	—	TL1107AF130WQ
	Tact Switch 6 x 3.5mm, H=4.3mm 180gf	EG2511-ND	.36	.29	.26	—	—	—	TL1107AF180WQ
	Tact Switch 6 x 3.5mm, H=5.0mm 130gf	EG2512-ND	.36	.29	.26	—	—	—	TL1107BF130WQ
	Tact Switch 6 x 3.5mm, H=5.0mm 180gf	EG2513-ND	.36	.29	.26	—	—	—	TL1107BF180WQ
	Tact Switch SMT 4.3mm Actuator 180gf Gull Wing	EG2528CT-ND	.59	.47	.43	EG2528TR-ND	1,800	234.00/M	TL3302AF180QG/TR
	Tact Switch SMT 5.0mm Actuator 180gf Gull Wing	EG2529CT-ND	.59	.47	.43	EG2529TR-ND	1,800	234.00/M	TL3302BF180QG/TR
	Process Sealed Tact Switch								
16	Tact Switch 4.7mm Actuator 130gf	EG2638-ND	.76	.61	.55	—	—	—	TL6100AF130QP
	Tact Switch 4.7mm Actuator 160gf	EG2639-ND	.76	.61	.55	—	—	—	TL6100AF160QP
	Tact Switch 4.7mm Actuator 160gf w/ESD Pin	EG2650-ND	1.21	.97	.88	—	—	—	TL6105AF160QP
	Tact Switch 4.7mm Actuator 300gf	EG2640-ND	.76	.61	.55	—	—	—	TL6100AF300QP
	Tact Switch 5.2mm Actuator 130gf	EG2641-ND	.76	.61	.55	—	—	—	TL6100BF130QP
	Tact Switch 5.2mm Actuator 160gf	EG2642-ND	.76	.61	.55	—	—	—	TL6100BF160QP
	Tact Switch 5.2mm Actuator 160gf w/ESD Pin	EG2651-ND	1.21	.97	.88	—	—	—	TL6105BF160QP
	Tact Switch 5.2mm Actuator 300gf	EG2643-ND	.76	.61	.55	—	—	—	TL6100BF300QP
	Tact Switch 6.9mm Actuator 130gf	EG2644-ND	.76	.61	.55	—	—	—	TL6100CF130QP
	Tact Switch 6.9mm Actuator 160gf	EG2645-ND	.76	.61	.55	—	—	—	TL6100CF160QP
	Tact Switch 6.9mm Actuator 160gf w/ESD Pin	EG2652-ND	1.21	.97	.88	—	—	—	TL6105CF160QP
	Tact Switch 6.9mm Actuator 300gf	EG2646-ND	.76	.61	.55	—	—	—	TL6100CF300QP
	Tact Switch 10mm Actuator 130gf	EG2647-ND	.76	.61	.55	—	—	—	TL6100DF130QP
	Tact Switch 10mm Actuator 160gf	EG2648-ND	.76	.61	.55	—	—	—	TL6100DF160QP
	Tact Switch 10mm Actuator 160gf w/ESD Pin	EG2653-ND	1.21	.97	.88	—	—	—	TL6105DF160QP
	Tact Switch 10mm Actuator 300gf	EG2649-ND	.76	.61	.55	—	—	—	TL6100DF300QP
	Tact Switch 10mm Actuator 130gf	EG2519-ND	1.02	.82	.74	—	—	—	GS10.00F130QP
	Tact Switch 10mm Actuator 300gf	EG2520-ND	1.02	.82	.74	—	—	—	GS10.00F300QP
	Tact Switch 4.70mm Actuator 130gf	EG2517-ND	1.02	.82	.74	—	—	—	GS4.70F130QP
	Tact Switch 4.70mm Actuator 300gf	EG2518-ND	1.02	.82	.74	—	—	—	GS4.70F300QP
	Tact Switch 6.34mm Right Angle Actuator 130gf	EG2521-ND	1.22	.98	.89	—	—	—	GSR6.34F130QR
	Tact Switch 8.54mm Right Angle Actuator 130gf	EG2522-ND	1.22	.98	.89	—	—	—	GSR8.54F130QR
	Tact Switch 10mm Actuator 130gf with ESD Pin	EG2524-ND	1.02	.82	.74	—	—	—	GSE10.00F130QP
	Tact Switch 4.70mm Actuator 130gf with ESD Pin	EG2523-ND	1.02	.82	.74	—	—	—	GSE4.70F130QP

† TB = Tape & Box

Fig.	Description	Rating	Operating Force	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel		E-Switch Part No.
					1	10	100		Size	Pricing	
	Detector Switches										
17	SMT Right Angle with Boss	12VDC, 50mA	180gf	EG2525CT-ND	1.10	.89	.80	EG2525TR-ND	2,000	441.00/M	901AGQF180/TR
18	SMT Right Angle without Boss	12VDC, 100mA	50gf	EG2622CT-ND	2.01	1.61	1.45	EG2622TR-ND	1,900	749.00/M	900AGQ
	SMT Right Angle with Boss	12VDC, 100mA	50gf	EG2659CT-ND	1.48	1.19	1.07	EG2659TR-ND	1,900	553.00/M	900BGQ
19	Vertical Mount, PCB	30VDC, 100mA	36gf	EG2660-ND	1.03	.83	.74	—	—	—	TD1104
20	Horizontal Mount, PCB	30VDC, 100mA	36gf	EG2661-ND	.91	.73	.66	—	—	—	TD1105A
21	Horizontal Mount, PCB	30VDC, 100mA	36gf	EG2662-ND	.91	.73	.66	—	—	—	TD1105B

Fig. 1

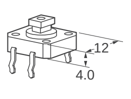

Fig. 2

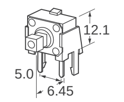

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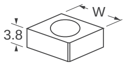

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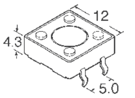

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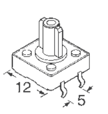

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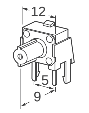

Fig. 7

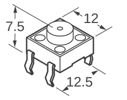

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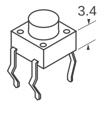

Fig. 9

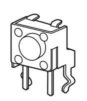

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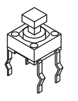

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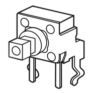

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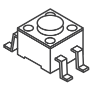

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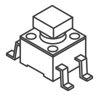

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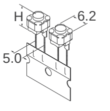

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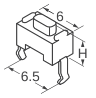

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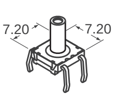

Process Sealed

Fig. 17

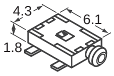

SMT Tact

Fig. 18

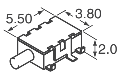

SMT Detector

Fig. 19

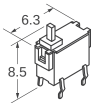

Fig. 20

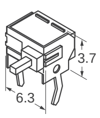

Fig. 21

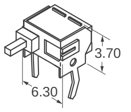

ITT

Momentary Tact Switches
PTS Series

Dim. in mm

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Size	Pricing*	ITT Industries Part No.
	PTS Momentary Tact Switches (Non-Washable)								
1	6mm, without ESD pin — 130gF	4.3	CKN9009-ND	.37	.30	.24	—	—	PTS645SL43
	6mm, with ESD pin — 130gF	4.3	CKN9011-ND	.53	.43	.34	—	—	PTS645TL43
	6mm, with ESD pin — 200gF	4.3	CKN1762-ND	.64	.60	.55	—	—	PTS645TH43
	6mm, without ESD pin — 260gF	4.3	CKN1760-ND	.57	.53	.49	—	—	PTS645SK43
	6mm, without ESD pin — 130gF	5.0	CKN9010-ND	.37	.30	.24	—	—	PTS645SL50
	6mm, with ESD pin — 130gF	5.0	CKN9012-ND	.53	.43	.34	—	—	PTS645TL50
	6mm, without ESD pin — 160gF	5.0	CKN1579CT-ND†	.34	.32	.29	1,000	187.00	PTS645SM50TR
	6mm, with ESD pin — 200gF	5.0	CKN1763-ND	.64	.60	.55	—	—	PTS645TH50
	6mm, without ESD pin — 200gF	5.0	CKN1825-ND	.44	.35	.28	—	—	PTS645SH50
	6mm, without ESD pin — 130gF	7.0	CKN1577-ND	.37	.30	.24	—	—	PTS645SL70
	6mm, with ESD pin — 130gF	7.0	CKN1580-ND	.53	.43	.34	—	—	PTS645TL70
	6mm, without ESD pin — 200gF	7.0	CKN1758-ND	.47	.44	.40	—	—	PTS645SH70
	6mm, without ESD pin — 130gF	9.5	CKN1578-ND	.37	.30	.24	—	—	PTS645SL95
	6mm, without ESD pin — 200gF	9.5	CKN1759-ND	.47	.44	.40	—	—	PTS645SH95
2	4.5mm, without ESD pin — 130gF	3.8	CKN9018-ND	.31	.25	.20	—	—	PTS453SL38
	4.5mm, with ESD pin — 130gF	3.8	CKN9019-ND	.31	.25	.20	—	—	PTS453TL38
3	6mm, Right Angle — 130gF	3.15	CKN9013-ND	.39	.32	.25	—	—	PTS645VL31
	6mm, Right Angle — 130gF	3.85	CKN9014-ND	.39	.32	.25	—	—	PTS645VL39
	6mm, Right Angle — 130gF	5.85	CKN1585-ND	.39	.32	.25	—	—	PTS645VL58
	6mm, Right Angle — 130gF	8.35	CKN1586-ND	.39	.32	.25	—	—	PTS645VL83
	6mm, Right Angle — 130gF	15.85	CKN1769-ND	.42	.39	.36	—	—	PTS645VL15
	6mm, Right Angle — 160gF	3.85	CKN1587CT-ND†	.42	.39	.36	1,000	234.00	PTS645VM39TR
	6mm, Right Angle — 200gF	3.15	CKN1581-ND	.40	.33	.26	—	—	PTS645VH31
	6mm, Right Angle — 200gF	3.85	CKN1582-ND	.40	.33	.26	—	—	PTS645VH39
	6mm, Right Angle — 200gF	5.85	CKN1583-ND	.40	.33	.26	—	—	PTS645VH58
4	6mm, 2-pin — 160gF	4.3	CKN1790CT-ND†	.30	.28	.26	1,000	167.40	PTS645SM43TR
	6mm, 2-pin — 130gF	7.0	CKN1794CT-ND†	.39	.36	.33	1,000	214.20	PTS645SL70TR
	6mm, 2-pin — 200gF	9.5	CKN1793CT-ND†	.28	.26	.24	1,000	153.00	PTS645SH95TR
	6mm, 2-pin — 260gF	4.3	CKN1791CT-ND†	.47	.44	.40	1,000	261.00	PTS645SK43TR
	6mm, 2-pin — 260gF	5.0	CKN1792CT-ND†	.30	.28	.26	1,000	167.40	PTS645SK50TR
5	6mm, Right Angle 2-pin — 260gF	3.85	CKN1796CT-ND†	.45	.42	.38	1,000	247.00	PTS645VK39TR
6	6mm, without ESD pin — 130gF	7.3	CKN1576-ND	.22	.18	.14	—	—	PTS645SJL73
	6mm, without ESD pin — 200gF	7.3	CKN1575-ND	.53	.43	.34	—	—	PTS645SJH73
7	12mm, without ESD pin — 160gF	7.3	CKN1567-ND	.45	.42	.38	—	—	PTS125SJM73
	12mm, without ESD pin — 260gF	7.3	CKN1566-ND	.45	.42	.38	—	—	PTS125SJK73
8	12mm, without ESD pin — 160gF	4.3	CKN9015-ND	.36	.29	.23	—	—	PTS125SM43
	12mm, without ESD pin — 260gF	4.3	CKN1568-ND	.37	.30	.24	—	—	PTS125SK43
	12mm, without ESD pin — 160gF	8.5	CKN1571-ND	.39	.32	.25	—	—	PTS125SM85
	12mm, without ESD pin — 260gF	8.5	CKN1569-ND	.40	.33	.26	—	—	PTS125SK85
9	12mm Right Angle Square Act. — 160gF	13.2	CKN1801-ND	.45	.42	.38	—	—	PTS125VJM73
10	12mm, without ESD pin — 160gF	12	CKN1570-ND	.38	.30	.24	—	—	PTS125SM12
11	6mm, without ESD pin — 160gF	4.3	CKN1789CT-ND	.27	.26	.24	1,000	151.20	PTS645SM43SMTR
	6mm, without ESD pin — 260gF	4.3	CKN1765-ND	.57	.53	.49	—	—	PTS645SK43SM
	6mm, without ESD pin — 130gF	5.0	CKN1767-ND	.44	.41	.38	—	—	PTS645SL50SM
	6mm, without ESD pin — 200gF	5.0	CKN1764-ND	.50	.47	.43	—	—	PTS645SH50SM
	6mm, without ESD pin — 260gF	5.0	CKN1766-ND	.57	.53	.49	—	—	PTS645SK50SM
12	5.25mm, Sq. SMT — 160gF	0.8	CKN1572CT-ND	.47	.44	.40	5,000	261.00/M	PTS525SM08
	5.25mm, Sq. SMT — 130gF	1.5	CKN9020CT-ND	.75	.60	.48	3,000	312.50/M	PTS525SM10SMTR
13	6 x 3.5 mm, without ESD pin — 130gF	4.3	CKN9016-ND	.47	.38	.30	—	—	PTS635SL43
	6 x 3.5 mm, without ESD pin — 130gF	5.0	CKN9017-ND	.47	.38	.30	—	—	PTS635SL50
14	6 x 3.5mm, Right Angle — 130gF	3.15	CKN1773-ND	.34	.32	.29	—	—	PTS635VL31
	6 x 3.5mm, Right Angle — 130gF	3.85	CKN1824-ND	.39	.32	.25	—	—	PTS635VL39
	6 x 3.5mm, Right Angle — 200gF	3.85	CKN1772-ND	.34	.32	.29	—	—	PTS635VH39
15	6 x 3.5mm, without ESD pin — 130gF	4.3	CKN1574CT-ND	.57	.53	.49	1,700	264.00/M	PTS635SL43SMTR
16	6.1 x 3.7mm, without ESD pin — 130gF	2.5	CKN1573CT-ND	.50	.47	.42	3,000	247.50/M	PTS635SL25SMTR
	6.1 x 3.7mm, without ESD pin — 260gF	2.5	CKN1770-ND	.49	.46	.42	—	—	PTS635SK25SM

* For Tape and Reel part number, change CT-ND to TR-ND. † For Tape and Box part number, change CT-ND to TB-ND.

Fig. 1

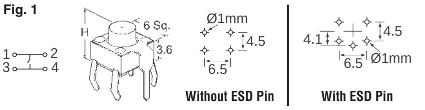

Fig. 2

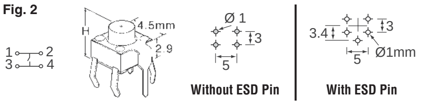

Fig. 3

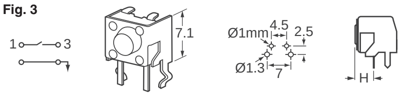

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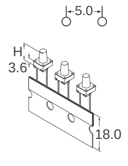

Fig. 5

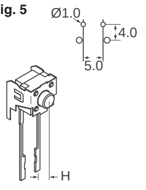

Fig. 6

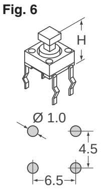

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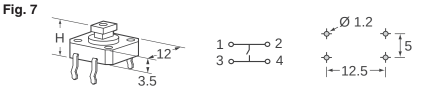

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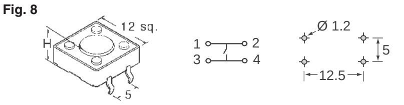

Fig. 9

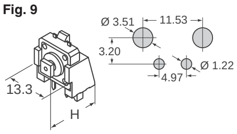

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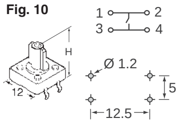

Fig. 11

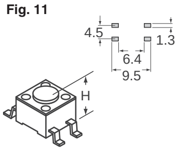

Fig. 12

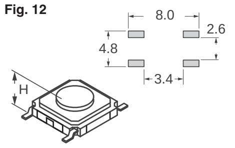

Fig. 13

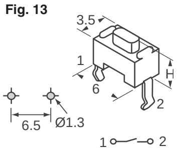

Fig. 14

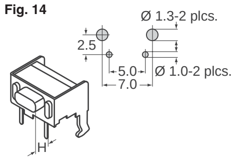

Fig. 15

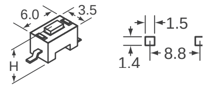

Fig. 16

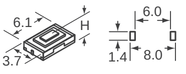

KS Series Key Switches

Circuit	Switch Function	Contact Material	Cap Color	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
				KS Momentary Key Switches (Non-Washable)				
SPST	Momentary (N/O)	B	White	CKN4077-ND	2.21	1.77	1.40	KS11R21CBD
		Q	White	CKN4078-ND	1.32	1.06	.84	KS11R21CQD
		Q	White	CKN1590-ND	2.59	2.08	1.64	KS11R21CQE
		B	Black	CKN4079-ND	2.21	1.77	1.40	KS11R22CBD
		Q	Black	CKN4080-ND	1.32	1.06	.84	KS11R22CQD
		Q	Black	CKN1591-ND	2.59	2.08	1.64	KS11R22CQE
		B	Red	CKN4081-ND	2.30	1.84	1.46	KS11R23CBD
		Q	Red	CKN4082-ND	1.32	1.06	.84	KS11R23CQD
		Q	Blue	CKN1592-ND	1.68	1.35	1.07	KS11R27CQD
SPDT	Momentary	Q	White	CKN1593-ND	1.47	1.18	.94	KS12R21CQD
		B	Black	CKN1594-ND	3.71	2.97	2.35	KS12R22CBE
		Q	Black	CKN1595-ND	1.47	1.18	.94	KS12R22CQD
		Q	Black	CKN1596-ND	2.74	2.19	1.74	KS12R22CQE

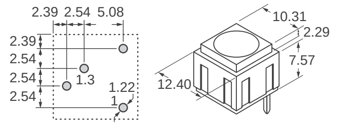

Dim. in mm

Contact Material:

Q Movable Contacts: Beryllium copper, silver plated 25mA maximum @ 50VAC/DC maximum Stationary Contacts and All Terminals: Copper alloy, silver plated

B Contacts: Gold Terminals: Gold Rating: 25mA maximum @ 50VAC/ DC maximum

ITT

Momentary Tact Switches
KT11 Series

Fig.	Actuator Height	Termination	Contact Material	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		ITT Industries Part No.
					1	25	100		Size	Pricing	
1	.088”	PC Mount	Silver	CKN4071-ND	2.09	1.68	1.33	—	—	—	KT11B2CM
2	Flush	J-Lead	Silver	CKN9001CT-ND	1.94	1.68	1.35	CKN9001TR-ND	1,100	1074.60/M	KT11B0JM
	.088”	J-Lead	Silver	CKN4069CT-ND	2.16	1.86	1.50	—	—	—	KT11B2JM
	.093”	J-Lead	Silver	CKN9002CT-ND	2.01	1.73	1.39	CKN9002TR-ND	1,100	1110.60/M	KT11P2JM
	.044”	J-Lead	Silver	CKN9003CT-ND	1.98	1.71	1.38	CKN9003TR-ND	1,100	1098.00/M	KT11P3JM
	.156”	J-Lead	Silver	CKN4083CT-ND	2.14	1.98	1.81	CKN4083TR-ND	800	946.08	KT11P4JM
3	Flush	Gullwing	Silver	CKN4072CT-ND	2.26	1.95	1.57	CKN4072TR-ND	1,100	1251.00/M	KT11B0SM
	.025”	Gullwing	Silver	CKN4073CT-ND	2.45	2.11	1.70	—	—	—	KT11B1SM
	.088”	Gullwing	Silver	CKN4074CT-ND	2.47	2.13	1.71	CKN4074TR-ND	1,100	1368.00/M	KT11B2SM
	.093”	Gullwing	Silver	CKN9004CT-ND	1.24	1.07	.86	—	—	—	KT11P2SM
	.044”	Gullwing	Silver	CKN9005CT-ND	2.27	1.96	1.58	CKN9005TR-ND	1,100	1256.40/M	KT11P3SM
	.156”	Gullwing	Silver	CKN9023CT-ND	2.31	2.14	1.96	—	—	—	KT11P4SM
4	Flush	Gullwing	Silver	CKN9006CT-ND	2.14	1.85	1.49	—	—	—	KT11B0SAM
	Flush	Gullwing	Gold	CKN1804CT-ND	2.76	2.55	2.34	CKN1804TR-ND	800	1224.00	KT11B0SAM33
	.025”	Gullwing	Silver	CKN9007CT-ND	2.16	1.86	1.50	CKN9007TR-ND	800	956.16	KT11B1SAM
	.025”	Gullwing	Gold	CKN1805CT-ND	3.23	2.99	2.74	CKN1805TR-ND	800	1431.20	KT11B1SAM33
	.088”	Gullwing	Gold	CKN1806CT-ND	2.82	2.61	2.39	CKN1806TR-ND	800	1251.20	KT11B2SAM33
5	Press Fit	Gullwing	Silver	CKN1565CT-ND	2.81	2.60	2.38	CKN1565TR-ND	800	1036.80	KT11S1SA3M31
	.093”	Gullwing	Gold	CKN1803CT-ND	2.19	2.02	1.86	CKN1803TR-ND	800	969.12	KT11P2SA3M33
	.093”	Gullwing	Silver	CKN1562CT-ND	2.19	2.02	1.86	—	—	—	KT11P2SA3M31
	.059”	Gullwing	Gold	CKN1785CT-ND	2.95	2.73	2.50	—	—	—	KT11P3SA3M33
	.156”	Gullwing	Gold	CKN1786CT-ND	4.97	4.59	4.21	—	—	—	KT11P4SA3M33
6	.093”	Gullwing	Gold	CKN1807CT-ND	2.76	2.55	2.34	CKN1807TR-ND	800	1020.00	KT11P2SA1M33
	.059”	Gullwing	Silver	CKN4082CT-ND	2.14	1.98	1.81	CKN4082TR-ND	800	947.52	KT11P3SA1M31
	.059”	Gullwing	Gold	CKN1808CT-ND	2.76	2.55	2.34	CKN1808TR-ND	800	1224.00	KT11P3SA1M33
	.156”	Gullwing	Silver	CKN4084CT-ND	2.17	2.01	1.84	—	—	—	KT11P4SA1M
	.156”	Gullwing	Gold	CKN1809CT-ND	2.19	2.02	1.86	CKN1809TR-ND	800	969.12	KT11P4SA1M33
7	Press Fit	Gullwing	Gold	CKN1787CT-ND	2.19	2.02	1.86	CKN1787TR-ND	600	726.84	KT11S1SA2M33
	.093”	Gullwing	Silver	CKN1561CT-ND	2.16	2.00	1.83	CKN1561TR-ND	600	717.00	KT11P2SA2M31
	.093”	Gullwing	Gold	CKN1810CT-ND	2.76	2.55	2.34	—	—	—	KT11P2SA2M33
	.059”	Gullwing	Gold	CKN1802CT-ND	2.76	2.55	2.34	—	—	—	KT11P3SA2M33
	.156”	Gullwing	Gold	CKN1564CT-ND	2.19	2.02	1.86	CKN1564TR-ND	600	726.60	KT11P4SA2M33
Ivory Button for Snap Fit Actuator, ø8mm				CKN1774-ND	1.17	1.08	.99	—	—	—	BTNKT110380
Black Button for Press Fit Actuator, ø4mm				CKN1775-ND	1.17	1.08	.99	—	—	—	BTNKT110290

Fig. 1

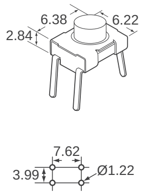

Fig. 2

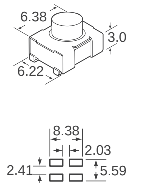

Fig. 3

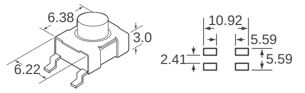

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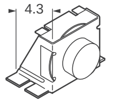

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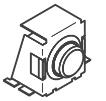

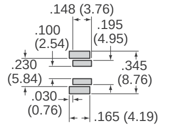

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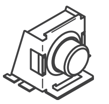

Fig. 7

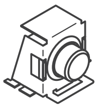

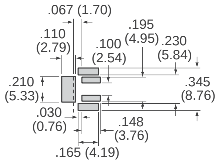

NEW! K5V Series Illuminated Tact Switches

RoHS COMPLIANT

Features: • Gold plated dome contact • Excellent ergonomics • High bright LEDs

Specifications: • Function: Momentary action, SPDT

Mechanical: • Operating Force: 400gF • Operating Life: 25,000 operations

Electrical: • Power Minimum/Maximum: 0.02VA / 1.0VA • Voltage Minimum/Maximum: 20mVDC ~ 32VDC • Current Minimum/Maximum: 0.1mA ~ 100mA

Environmental: • Operating Temperature: -40°C ~ 85°C

Fig.	Color	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing	ITT Industries Part No.
			1	25	100		330	
Right Angle, Thru-Hole								
1	Blue	401-1854-ND	6.68	5.94	5.20	—	—	K5V1BU43T
	Green	401-1657-ND	7.41	6.84	6.27	—	—	K5V1GN43T
	Red	401-1658-ND	7.41	6.84	6.27	—	—	K5V1RD43T
	White	401-1857-ND	6.68	5.94	5.20	—	—	K5V1WH43TP4
	Yellow-Green	401-1659-ND	7.41	6.84	6.27	—	—	K5V1YG43T
Right Angle, Thru-Hole (with latch for light pipe extension)								
1	Blue	401-1858-ND	6.68	5.94	5.20	—	—	K5V2BU43TP4
	Green	401-1859-ND	5.13	4.56	3.99	—	—	K5V2GN43TP3
	White	401-1861-ND	6.68	5.94	5.20	—	—	K5V2WH43TP4
Right Angle - SMT								
2	Blue	401-1852-1-ND	9.65	8.91	8.17	401-1852-2-ND	1764.18	K5V1BU43G
	Green	401-1662-1-ND	7.41	6.84	6.27	401-1662-2-ND	1354.32	K5V1GN43G
	White	401-1855-1-ND	9.65	8.91	8.17	401-1855-2-ND	1764.18	K5V1WH43G
	Yellow-Green	401-1664-1-ND	7.41	6.84	6.27	401-1664-2-ND	1354.32	K5V1YG43G
Panel Mount								
3	Blue	401-1853-ND	6.68	5.94	5.20	—	—	K5V1BU43P
	Yellow-Green	401-1653-ND	7.41	6.84	6.27	—	—	K5V1YG43P

Fig. 1

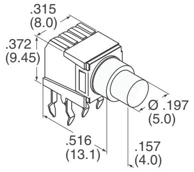

Fig. 2

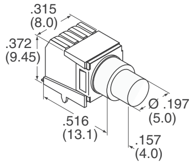

Fig. 3

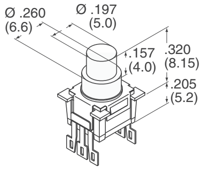

ITT

Sealed Surface Mount Tact Switches KSC Series — (Washable)

- **Circuit:** SPST-NO
- **Switching:** Maximum Voltage: 32VDC
  Maximum Current: Silver: 50mA; Gold: 10mA
- **Contact Resistance:** 100mΩ
- **Operating Temperature:** Silver: -40°C ~ 85°C;
  Gold: -40°C ~ 125°C

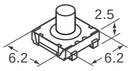

J-Lead Shown

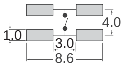

J-Lead PCB

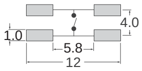

Gullwing PCB

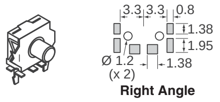

Right Angle

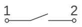

Operating Force	Actuator	Termination	Contact Material	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	ITT Industries Part No.
160gF	Flush	Gullwing	Silver	401-1455-1-ND	.53	.49	.45	401-1455-2-ND	2,000	291.60/M	KSC121G
160gF	Flush	Gullwing	Silver	401-1749-1-ND‡ ***NEW!***	.53	.49	.45	401-1749-2-ND‡ ***NEW!***	2,000	291.60/M	KSC121GLFS
160gF	Flush	J-Lead	Silver	401-1456-1-ND	.53	.49	.45	401-1456-2-ND	2,000	291.60/M	KSC121J
160gF	Flush	J-Lead	Silver	401-1750-1-ND‡ ***NEW!***	.53	.49	.45	401-1750-2-ND‡ ***NEW!***	2,000	291.60/M	KSC121JLFS
300gF	Flush	Gullwing	Silver	401-1071-1-ND	.47	.44	.41	401-1071-2-ND	2,000	262.80/M	KSC141G
300gF	Flush	Gullwing	Silver	401-1751-1-ND‡ ***NEW!***	.47	.44	.41	401-1751-2-ND‡ ***NEW!***	2,000	262.80/M	KSC141GLFS
300gF	Flush	J-Lead	Silver	401-1072-1-ND	.47	.44	.41	401-1072-2-ND	2,000	262.80/M	KSC141J
300gF	Flush	J-Lead	Silver	401-1752-1-ND‡ ***NEW!***	.47	.44	.41	401-1752-2-ND‡ ***NEW!***	2,000	262.80/M	KSC141JLFS
550gF	Flush	Gullwing	Silver	401-1073-1-ND	.49	.45	.42	401-1073-2-ND	2,000	270.00/M	KSC151G
550gF	Flush	Gullwing	Silver	401-1753-1-ND‡ ***NEW!***	.49	.45	.42	401-1753-2-ND‡ ***NEW!***	2,000	270.00/M	KSC151GLFS
550gF	Flush	J-Lead	Silver	401-1074-1-ND	.49	.45	.42	401-1074-2-ND	2,000	270.00/M	KSC151J
550gF	Flush	J-Lead	Silver	401-1754-1-ND‡ ***NEW!***	.49	.45	.42	401-1754-2-ND‡ ***NEW!***	2,000	270.00/M	KSC151JLFS
120gF	Soft 3.5mm	Gullwing	Silver	401-1457-1-ND	.47	.44	.41	401-1457-2-ND	2,000	262.80/M	KSC201G
120gF	Soft 3.5mm	Gullwing	Silver	401-1755-1-ND‡ ***NEW!***	.47	.44	.41	401-1755-2-ND‡ ***NEW!***	2,000	262.80/M	KSC201GLFS
120gF	Soft 3.5mm	J-Lead	Silver	401-1458-1-ND	.47	.44	.41	401-1458-2-ND	2,000	262.80/M	KSC201J
120gF	Soft 3.5mm	J-Lead	Silver	401-1756-1-ND‡ ***NEW!***	.47	.44	.41	401-1756-2-ND‡ ***NEW!***	2,000	262.80/M	KSC201JLFS
200gF	Soft 3.5mm	Gullwing	Silver	401-1075-1-ND	.55	.51	.47	401-1075-2-ND	2,000	302.40/M	KSC221G
200gF	Soft 3.5mm	Gullwing	Silver	401-1757-1-ND‡ ***NEW!***	.55	.51	.47	401-1757-2-ND‡ ***NEW!***	2,000	302.40/M	KSC221GLFS
200gF	Soft 3.5mm	J-Lead	Silver	401-1076-1-ND	.55	.51	.47	401-1076-2-ND	2,000	302.40/M	KSC221J
200gF	Soft 3.5mm	J-Lead	Silver	401-1758-1-ND‡ ***NEW!***	.55	.51	.47	401-1758-2-ND‡ ***NEW!***	2,000	302.40/M	KSC221JLFS
200gF	Soft 3.5mm	Gullwing	Gold	401-1459-1-ND	.59	.54	.50	401-1459-2-ND	2,000	324.00/M	KSC223G
200gF	Soft 3.5mm	Gullwing	Gold	401-1759-1-ND‡ ***NEW!***	.59	.54	.50	401-1759-2-ND‡ ***NEW!***	2,000	324.00/M	KSC223GLFG
200gF	Soft 3.5mm	J-Lead	Gold	401-1460-1-ND	.59	.54	.50	401-1460-2-ND	2,000	324.00/M	KSC223J
200gF	Soft 3.5mm	J-Lead	Gold	401-1760-1-ND‡ ***NEW!***	.59	.54	.50	401-1760-2-ND‡ ***NEW!***	2,000	324.00/M	KSC223JLFG
350gF	Soft 3.5mm	Gullwing	Silver	401-1077-1-ND	.51	.48	.44	401-1077-2-ND	2,000	282.60/M	KSC241G
350gF	Soft 3.5mm	Gullwing	Silver	401-1761-1-ND‡ ***NEW!***	.51	.48	.44	401-1761-2-ND‡ ***NEW!***	2,000	282.60/M	KSC241GLFS
350gF	Soft 3.5mm	J-Lead	Silver	401-1078-1-ND	.56	.52	.48	401-1078-2-ND	2,000	311.40/M	KSC241J
350gF	Soft 3.5mm	J-Lead	Silver	401-1762-1-ND‡ ***NEW!***	.56	.52	.48	401-1762-2-ND‡ ***NEW!***	2,000	311.40/M	KSC241JLFS
300gF	Soft 3.5mm	Gullwing	Gold	401-1269-1-ND	.66	.62	.57	401-1269-2-ND	2,000	367.20/M	KSC243G
300gF	Soft 3.5mm	Gullwing	Gold	401-1763-1-ND‡ ***NEW!***	.66	.62	.57	401-1763-2-ND‡ ***NEW!***	2,000	367.20/M	KSC243GLFG
300gF	Soft 3.5mm	J-Lead	Gold	401-1700-1-ND	.66	.62	.57	401-1700-2-ND	2,000	367.00/M	KSC243J
300gF	Soft 3.5mm	J-Lead	Gold	401-1764-1-ND‡ ***NEW!***	.66	.62	.57	401-1764-2-ND‡ ***NEW!***	2,000	367.20/M	KSC243JLFG
160gF	Hard 3.5mm	Gullwing	Silver	401-1268-1-ND	.45	.42	.38	401-1268-2-ND	2,000	246.60/M	KSC321G
160gF	Hard 3.5mm	Gullwing	Silver	401-1765-1-ND‡ ***NEW!***	.45	.42	.38	401-1765-2-ND‡ ***NEW!***	2,000	246.60/M	KSC321GLFS
160gF	Hard 3.5mm	J-Lead	Silver	401-1701-1-ND	.45	.42	.38	401-1701-2-ND	2,000	247.00/M	KSC321J
160gF	Hard 3.5mm	J-Lead	Silver	401-1766-1-ND‡ ***NEW!***	.45	.42	.38	401-1766-2-ND‡ ***NEW!***	2,000	246.60/M	KSC321JLFS
200gF	Hard 3.5mm	Gullwing	Gold	401-1461-1-ND	.57	.53	.48	401-1461-2-ND	2,000	313.20/M	KSC323G
200gF	Hard 3.5mm	Gullwing	Gold	401-1767-1-ND‡ ***NEW!***	.57	.53	.48	401-1767-2-ND‡ ***NEW!***	2,000	313.20/M	KSC323GLFG
200gF	Hard 3.5mm	J-Lead	Gold	401-1462-1-ND	.57	.53	.48	401-1462-2-ND	2,000	313.20/M	KSC323J
200gF	Hard 3.5mm	J-Lead	Gold	401-1768-1-ND‡ ***NEW!***	.57	.53	.48	401-1768-2-ND‡ ***NEW!***	2,000	313.20/M	KSC323JLFG
300gF	Hard 3.5mm	Gullwing	Silver	401-1463-1-ND	.47	.44	.40	401-1463-2-ND	2,000	259.20/M	KSC341G
300gF	Hard 3.5mm	Gullwing	Silver	401-1769-1-ND‡ ***NEW!***	.47	.44	.40	401-1769-2-ND‡ ***NEW!***	2,000	259.20/M	KSC341GLFS
300gF	Hard 3.5mm	J-Lead	Silver	401-1267-1-ND	.47	.44	.40	401-1267-2-ND	2,000	259.20/M	KSC341J
300gF	Hard 3.5mm	J-Lead	Silver	401-1770-1-ND‡ ***NEW!***	.47	.44	.40	401-1770-2-ND‡ ***NEW!***	2,000	259.20/M	KSC341JLFS
300gF	Hard 3.5mm	Gullwing	Gold	401-1464-1-ND	.57	.53	.49	401-1464-2-ND	2,000	316.80/M	KSC343G
300gF	Hard 3.5mm	Gullwing	Gold	401-1771-1-ND‡ ***NEW!***	.57	.53	.49	401-1771-2-ND‡ ***NEW!***	2,000	316.80/M	KSC343GLFG
300gF	Hard 3.5mm	J-Lead	Gold	401-1465-1-ND	.57	.53	.49	401-1465-2-ND	2,000	316.80/M	KSC343J
300gF	Hard 3.5mm	J-Lead	Gold	401-1772-1-ND‡ ***NEW!***	.57	.53	.49	401-1772-2-ND‡ ***NEW!***	2,000	316.80/M	KSC343JLFG
550gF	Hard 3.5mm	Gullwing	Silver	401-1272-1-ND	.58	.54	.50	401-1272-2-ND	2,000	322.20/M	KSC351G
550gF	Hard 3.5mm	Gullwing	Silver	401-1773-1-ND‡ ***NEW!***	.58	.54	.50	401-1773-2-ND‡ ***NEW!***	2,000	322.20/M	KSC351GLFS
550gF	Hard 3.5mm	J-Lead	Silver	401-1270-1-ND	.58	.54	.50	401-1270-2-ND	2,000	322.20/M	KSC351J
550gF	Hard 3.5mm	J-Lead	Silver	401-1774-1-ND‡ ***NEW!***	.58	.54	.50	401-1774-2-ND‡ ***NEW!***	2,000	322.20/M	KSC351JLFS
120gF	Soft 5.2mm	J-Lead	Silver	401-1466-1-ND	.60	.56	.51	401-1466-2-ND	1,000	333.00	KSC401J50SH
120gF	Soft 5.2mm	J-Lead	Silver	401-1775-1-ND‡ ***NEW!***	.60	.56	.51	401-1775-2-ND‡ ***NEW!***	1,000	333.00	KSC401J50SH LFS
120gF	Soft 5.2mm	J-Lead	Gold	401-1467-1-ND	.83	.77	.71	401-1467-2-ND	1,000	460.80	KSC403J50SH
120gF	Soft 5.2mm	J-Lead	Gold	401-1776-1-ND‡ ***NEW!***	.84	.78	.72	401-1776-2-ND‡ ***NEW!***	1,000	466.20	KSC403J50SH LFG
140gF	Soft 5.2mm	Gullwing	Silver	401-1468-1-ND	.53	.49	.45	401-1468-2-ND	1,000	291.60	KSC411G70SH
140gF	Soft 5.2mm	Gullwing	Silver	401-1777-1-ND‡ ***NEW!***	.53	.49	.45	401-1777-2-ND‡ ***NEW!***	1,000	291.60	KSC411G70SH LFS
140gF	Soft 5.2mm	J-Lead	Silver	401-1469-1-ND	.53	.49	.45	401-1469-2-ND	1,000	291.60	KSC411J70SH
140gF	Soft 5.2mm	J-Lead	Silver	401-1778-1-ND‡ ***NEW!***	.53	.49	.45	401-1778-2-ND‡ ***NEW!***	1,000	291.60	KSC411J70SH LFS
160gF	Soft 5.2mm	Gullwing	Silver	401-1079-1-ND	.46	.43	.39	401-1079-2-ND	1,000	—	KSC421G70SH
160gF	Soft 5.2mm	Gullwing	Silver	401-1779-1-ND‡ ***NEW!***	.46	.43	.39	401-1779-2-ND‡ ***NEW!***	1,000	253.80	KSC421G70SH LFS
160gF	Soft 5.2mm	J-Lead	Silver	401-1080-1-ND	.53	.49	.45	401-1080-2-ND	1,000	291.60	KSC421J70SH
160gF	Soft 5.2mm	J-Lead	Silver	401-1780-1-ND‡ ***NEW!***	.96	.89	.82	401-1780-2-ND‡ ***NEW!***	1,000	291.60	KSC421J70SH LFS
170gF	Soft 5.2mm	Right Angle	Silver	401-1472-ND†	.96	.89	.82	—	—	—	KSC421V30ACT2.95
170gF	Soft 5.2mm	Right Angle	Silver	401-1781-ND†‡ ***NEW!***	.96	.89	.82	—	—	—	KSC421V30ACT2.95LFS
170gF	Soft 5.2mm	J-Lead	Gold	401-1473-1-ND	.67	.62	.57	401-1473-2-ND	1,000	370.80	KSC423J70SH
170gF	Soft 5.2mm	J-Lead	Gold	401-1782-1-ND‡ ***NEW!***	.67	.62	.57	401-1782-2-ND‡ ***NEW!***	1,000	370.80	KSC423J70SH LFG
320gF	Soft 5.2mm	Gullwing	Silver	401-1081-1-ND	.49	.45	.42	401-1081-2-ND	1,000	270.00	KSC441G70SH
320gF	Soft 5.2mm	Gullwing	Silver	401-1783-1-ND‡ ***NEW!***	.49	.45	.42	401-1783-2-ND‡ ***NEW!***	1,000	270.00	KSC441G70SH LFS
320gF	Soft 5.2mm	J-Lead	Silver	401-1082-1-ND	.49	.45	.42	401-1082-2-ND	1,000	270.00	KSC441J70SH
320gF	Soft 5.2mm	J-Lead	Silver	401-1784-1-ND‡ ***NEW!***	.49	.45	.42	401-1784-2-ND‡ ***NEW!***	1,000	270.00	KSC441J70SH LFS
320gF	Soft 5.2mm	J-Lead	Gold	401-1476-1-ND	.59	.55	.51	401-1476-2-ND	1,000	327.60	KSC443J70SH
320gF	Soft 5.2mm	J-Lead	Gold	401-1785-1-ND‡ ***NEW!***	.59	.55	.51	401-1785-2-ND‡ ***NEW!***	1,000	327.60	KSC443J70SH LFG
200gF	Rocker 5.6mm	Gullwing	Silver	401-1477-1-ND	.43	.40	.37	401-1477-2-ND	1,000	235.80	KSC521G
200gF	Rocker 5.6mm	J-Lead	Silver	401-1478-1-ND	.47	.44	.40	401-1478-2-ND	1,000	259.20	KSC521J
300gF	Rocker 5.6mm	Gullwing	Silver	401-1083-1-ND	.57	.53	.48	401-1083-2-ND	1,000	313.20	KSC541G
300gF	Rocker 5.6mm	J-Lead	Silver	401-1084-1-ND	.57	.53	.48	401-1084-2-ND	1,000	313.20	KSC541J
160gF	Hard 7.7mm	Gullwing	Silver	401-1085-1-ND	.51	.48	.44	401-1085-2-ND	750	211.95	KSC621G
160gF	Hard 7.7mm	Gullwing	Silver	401-1786-1-ND‡ ***NEW!***	.51	.48	.44	401-1786-2-ND‡ ***NEW!***	750	211.95	KSC621GLFS
160gF	Hard 7.7mm	J-Lead	Silver	401-1086-1-ND	.51	.48	.44	401-1086-2-ND	750	211.95	KSC621J
160gF	Hard 7.7mm	J-Lead	Silver	401-1748-1-ND‡ ***NEW!***	.51	.48	.44	401-1748-2-ND‡ ***NEW!***	750	211.95	KSC621JLFS
300gF	Hard 7.7mm	Gullwing	Silver	401-1087-1-ND	.51	.48	.44	401-1087-2-ND	750	213.30	KSC641G
300gF	Hard 7.7mm	Gullwing	Silver	401-1787-1-ND‡ ***NEW!***	.51	.48	.44	401-1787-2-ND‡ ***NEW!***	750	213.30	KSC641GLFS
300gF	Hard 7.7mm	J-Lead	Silver	401-1088-1-ND	.51	.48	.44	401-1088-2-ND	750	213.30	KSC641J
300gF	Hard 7.7mm	J-Lead	Silver	401-1788-1-ND‡ ***NEW!***	.51	.48	.44	401-1788-2-ND‡ ***NEW!***	750	213.30	KSC641JLFS
170gF	Soft 5.2mm	Right Angle	Silver	401-1619-ND†	.96	.89	.82	—	—	—	KSC421V30ACT3.17
170gF	Soft 5.2mm	Right Angle	Silver	401-1789-ND†‡ ***NEW!***	.96	.89	.82	—	—	—	KSC421V30ACT3.17LFS
170gF	Hard 7.7mm	Right Angle	Silver	401-1620-ND†	1.34	1.24	1.14	—	—	—	KSC621V

† Bulk ‡ ***RoHS Compliant***

KSB and KSF Series Low Profile Tact Switches, (Washable)

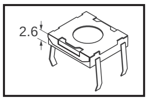

Flat miniature tact switch designed for automatic or manual insertion. Sealed against immersion. **Circuit:** SPST-NO **Switching:** • Voltage Maximum: 50VDC • Current Maximum: 50mA **Contact Resistance:** KSF: 50mΩ; KSB: 100mΩ **Contact Material:** Silver plated **Operating Temperature:** -40°C ~ 90°C
MARK II Version is improved seal version for immersed cleaning.

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
7.4mm square, 300gF, Flux Sealed	401-1454-ND	.86	.80	.73	KSB0M410
7.4mm square, 300gF, Flux Sealed	401-1790-ND† ***NEW!***	.86	.80	.73	KSB0M410LFT
7.4mm square, 130gF, Flux Sealed	401-1479-ND	.78	.72	.66	KSF0M210
7.4mm square, 130gF, Totally Sealed	401-1067-ND	.82	.76	.70	KSF0M211
7.4mm square, 130gF, Totally Sealed	401-1791-ND† ***NEW!***	.82	.76	.70	KSF0M211LFT
7.4mm square, 130gF, Mark II Sealed	401-1480-ND	.82	.76	.70	KSF0M212
7.4mm square, 160gF, Totally Sealed	401-1068-ND	.82	.76	.70	KSF0M311
7.4mm square, 160gF, Totally Sealed	401-1792-ND† ***NEW!***	.82	.76	.70	KSF0M311LFT
7.4mm square, 300gF, Flux Sealed	401-1481-ND	.69	.64	.59	KSF0M410
7.4mm square, 300gF, Totally Sealed	401-1069-ND	.73	.68	.63	KSF0M411
7.4mm square, 300gF, Totally Sealed	401-1793-ND† ***NEW!***	.73	.68	.63	KSF0M411LFT
7.4mm square, 500gF, Flux Sealed	401-1482-ND	.95	.88	.81	KSF0M510
7.4mm square, 500gF, Totally Sealed	401-1070-ND	1.00	.93	.85	KSF0M511
7.4mm square, 500gF, Totally Sealed	401-1794-ND† ***NEW!***	1.00	.93	.85	KSF0M511LFT
7.4mm square, 130gF, Totally Sealed, with Ground	401-1483-ND	.84	.78	.71	KSF1M211
7.4mm square, 130gF, Totally Sealed, with Ground	401-1795-ND† ***NEW!***	.84	.78	.71	KSF1M211LFT
7.4mm square, 300gF, Totally Sealed, with Ground	401-1484-ND	.75	.70	.64	KSF1M411

† ***RoHS Compliant***

Snap-On Switch Caps for KSF Series

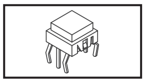

Snap-on buttons for KSF series switches snap over and are held in place by the KSF body. All buttons must be mounted after the soldering and cleaning process. Buttons are able to be screen printed for custom legend appearances. (Switch is sold separately).

Color	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
10mm Square Cap					
Black	401-1255-ND	.47	.44	.40	BTNK1090
Red	401-1256-ND	.47	.44	.40	BTNK1040
Light Grey	401-1257-ND	.47	.44	.40	BTNK1020
Dark Grey	401-1258-ND	.50	.47	.43	BTNK1010
Yellow	401-1259-ND	.47	.44	.40	BTNK1030
Blue	401-1260-ND	.47	.44	.40	BTNK1060
Green	401-1261-ND	.47	.44	.40	BTNK1050
Ivory	401-1262-ND	.47	.44	.40	BTNK1080
Grey-Blue	401-1263-ND	.47	.44	.40	BTNK1070

KSI Series Sealed Tact Switches

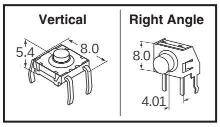

Specifications: Function: Momentary action **Contact Arrangement:** 1 make contact = SPST-NO **Distance Between Button Centers (minimum):** 7.62mm (0.300”) **Terminals:** PC pins **Electrical: Maximum Power:** 1VA **Maximum Voltage:** 50VDC **Minimum Voltage:** 20mV **Maximum Current:** 50mA **Minimum Current:** 1mA **Operating Temperature:** -40°C ~ 90°C **Contact Material:** Silver plated

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Vertical, 110gF, Totally Sealed	401-1485-ND	.74	.69	.63	KSI0M011
Vertical, 110gF, Totally Sealed	401-1796-ND† ***NEW!***	.74	.69	.63	KSI0M011LFT
Vertical, 300gF, Flux Sealed	401-1486-ND	.79	.73	.67	KSI0M410
Vertical, 300gF, Totally Sealed	401-1487-ND	.84	.78	.71	KSI0M411
Vertical, 300gF, Totally Sealed	401-1797-ND† ***NEW!***	.84	.78	.71	KSI0M411LFT
Right Angle, 110gF, Totally Sealed	401-1488-ND	.86	.80	.73	KSI0V011
Right Angle, 110gF, Totally Sealed	401-1798-ND† ***NEW!***	.86	.80	.73	KSI0V011LFT
Right Angle, 300gF, Flux Sealed	401-1489-ND	.90	.84	.77	KSI0V410
Right Angle, 300gF, Totally Sealed	401-1490-ND	.95	.88	.81	KSI0V411
Right Angle, 300gF, Totally Sealed	401-1799-ND† ***NEW!***	.95	.88	.81	KSI0V411LFT
Vertical, 300gF, Totally Sealed, with Ground	401-1491-ND	.88	.82	.75	KSI1M411

† ***RoHS Compliant***

KSJ Series Tact Switches, with Spherical Actuator, (Washable)

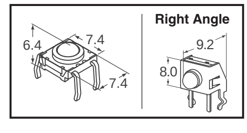

The KSJ long travel is a miniature tact switch using a single pole, normally open contact and is equipped with a spherical actuator. This new version is specially designed for applications where the actuation force can be off center approximately ±30° with regard to vertical and even be parallel to the PCB.
Circuit: SPST-NO **Switching:** • Voltage Maximum: 50mA • Current Maximum: 50mA **Operating Life:** 10^5 **Operating Force:** 100 Grams **Operating Temperature:** Silver: -40°C ~ 90°C; Gold: -40°C ~ 125°C

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
300gF, Totally Sealed, Silver, with Ground	401-1800-ND† ***NEW!***	1.32	1.23	1.12	KSJ0M41180SH LFT
300gF, Totally Sealed, Silver, with Ground	401-1090-ND	1.34	1.24	1.14	KSJ1M411
300gF, Totally Sealed, Silver	401-1801-ND† ***NEW!***	1.34	1.24	1.14	KSJ1M41180SH LFT
300gF, Totally Sealed, Silver, Right Angle	401-1091-ND	1.39	1.29	1.18	KSJOV411
110gF, Totally Sealed, Silver	401-1492-ND	1.58	1.46	1.34	KSJ0M011
110gF, Totally Sealed, Silver	401-1802-ND† ***NEW!***	1.58	1.46	1.34	KSJ0M011LFT
200gF, Flux Sealed, Silver	401-1493-ND	1.19	1.11	1.01	KSJ0M21080SH
200gF, Flux Sealed, Silver	401-1803-ND† ***NEW!***	1.24	1.14	1.05	KSJ0M21180SH LFT
300gF, Flux Sealed, Silver	401-1494-ND	1.28	1.19	1.09	KSJ0M410
300gF, Flux Sealed, Gold	401-1495-ND	1.43	1.33	1.22	KSJ0M430
300gF, Flux Sealed, Gold	401-1804-ND† ***NEW!***	1.48	1.37	1.25	KSJ0M431LFT
110gF, Totally Sealed, Silver, Right Angle	401-1496-ND	1.24	1.14	1.05	KSJ0V011
300gF, Flux Sealed, Silver, Right Angle	401-1497-ND	1.35	1.25	1.14	KSJ0V410
300gF, Flux Sealed, Gold, Right Angle	401-1805-ND† ***NEW!***	1.54	1.43	1.31	KSJ0V431LFT

† ***RoHS Compliant***

KST Series SMT Rubber Tact Switches

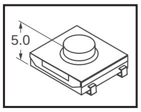

The KST is a miniature tact switch with a rubber actuator used to provide a tactile effect similar to the feeling given by the conductive rubber products and a travel which is more than twice the standard tact switch travel of the KSA or KSC product line.
Circuit: SPST-NO **Switching:** • Voltage Maximum: 30V • Current Maximum: 50mA **Life Expectancy:** 100,000 cycles **Operating Temperature:** -40°C ~ 125°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R Pricing‡ 1,000	ITT Ind. Part No.
Tact Switch - 6.2mm sq - 200gF, Gullwing	401-1103-1-ND	.40	.37	.34	221.40	KST221G
Tact Switch - 6.2mm sq - 200gF, Gullwing	401-1847-1-ND† ***NEW!***	.40	.37	.34	221.40	KST221GLFS
Tact Switch - 6.2mm sq - 200gF, J-Type	401-1104-1-ND	.40	.37	.34	221.40	KST221J
Tact Switch - 6.2mm sq - 200gF, J-Type	401-1848-1-ND† ***NEW!***	.40	.37	.34	221.40	KST221JLFS
Tact Switch - 6.2mm sq - 350gF, Gullwing	401-1105-1-ND	.42	.39	.36	232.20	KST241G
Tact Switch - 6.2mm sq - 350gF, Gullwing	401-1849-1-ND† ***NEW!***	.42	.39	.36	232.20	KST241GLFS
Tact Switch - 6.2mm sq - 350gF, J-Type	401-1106-1-ND	.42	.39	.36	232.20	KST241J
Tact Switch - 6.2mm sq - 350gF, J-Type	401-1850-1-ND† ***NEW!***	.42	.39	.36	232.20	KST241JLFS
Tact Switch - 6.2mm sq - 350gF, J-Type, Gold	401-1526-1-ND	.65	.60	.55	358.20	KST243J
Tact Switch - 6.2mm sq - 350gF, J-Type, Gold	401-1851-1-ND† ***NEW!***	.65	.60	.55	358.20	KST243JLFG

‡ For Tape and Reel part number, change 1-ND to 2-ND. † ***RoHS Compliant***

K6 Series Tactile Switches

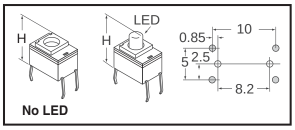

Follow the trend toward miniaturization. Distinctive tactile feel. High switching reliability. Custom designed button required.

Function: Momentary action **Circuit:** SPST-NO **Switching:** • Voltage Maximum: 30VDC • Current Maximum: 100mA **Contact Resistance:** 50mΩ **Total Travel:** 1.5mm **Contact Material:** Gold over nickel **Operating Temperature:** -40°C ~ 85°C

Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
300gF, No LED	8.4	401-1163-ND	1.49	1.20	.95	K6B 1.5 3N
300gF, Green-LED Illumination	12.3	401-1590-ND	2.38	2.20	2.02	K6BL GN 1.5 3N L306
300gF, Green-LED Illumination	12.3	401-1164-ND	2.20	1.76	1.40	K6BL GN 1.5 3N L906
300gF, Orange-LED Illumination	12.3	401-1166-ND	2.30	1.84	1.46	K6BL OG 1.5 3N L405
300gF, Red-LED Illumination	12.3	401-1167-ND	2.20	1.76	1.40	K6BL RD 1.5 3N L352
300gF, Yellow-LED Illumination	12.3	401-1169-ND	2.20	1.76	1.40	K6BL YE 1.5 3N L327
500gF, No LED	8.4	401-1589-ND	1.62	1.50	1.37	K6B 1.5 5N
500gF, Red-LED Illumination	12.3	401-1168-ND	2.20	1.76	1.40	K6BL RD 1.5 5N L352
500gF, Green-LED Illumination	12.3	401-1165-ND	2.20	1.76	1.40	K6BL GN 1.5 5N L906
500gF, Yellow-LED Illumination	12.3	401-1170-ND	2.20	1.76	1.40	K6BL YE 1.5 5N L327

K12 Series Tactile Switches

Successful in measurement and control equipment, industrial electronics and automotive applications. **Function:** Momentary action **Circuit:** SPST-NO **Switching:** • Voltage Maximum: 30VDC • Current Maximum: 100mA **Contact Resistance:** 50mΩ **Contact Material:** Gold over nickel **Operating Temperature:** -40°C ~ 85°C

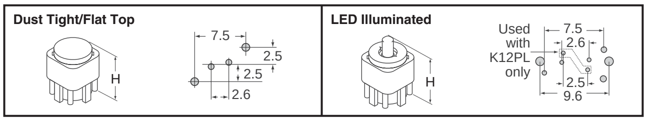
Dust Tight/Flat Top
LED Illuminated

Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Round, 500gF, Dust Tight (Process Sealed)	12.0	401-1159-ND	4.92	3.94	3.12	K12C 1 5N
Round, 250gF, Dust Tight (Process Sealed)	12.0	401-1158-ND	4.79	3.84	3.04	K12C BK 1 2.5N
Flat Top, 250gF, Cap, Black	11.0	401-1156-ND	2.47	1.98	1.57	K12P BK 1.5 2.5N
Flat Top, 500gF, Cap, Black	11.0	401-1157-ND	2.47	1.98	1.57	K12P BK 1.5 5
Flat Top, 250gF, Cap, Black	14.5	401-1587-ND	2.68	2.48	2.27	K12P BK 2 2.5N
250gF, Red-LED Illumination	14.5	401-1588-ND	4.18	3.87	3.54	K12PL RD 1.5 2.5N
500gF, Green-LED Illumination	14.5	401-1160-ND	3.86	3.09	2.45	K12PL GN 1.5 5N
500gF, Red-LED Illumination	14.5	401-1161-ND	3.86	3.09	2.45	K12PL RD 1.5 5N
500gF, Yellow-LED Illumination	14.5	401-1162-ND	3.86	3.09	2.45	K12PL YE 1.5 5N
350/700gF, Twin Contacts	14.5	401-1586-ND	4.18	3.87	3.54	K12GONT1.5 3.5/7N

ED and EDM Series Snap Domes

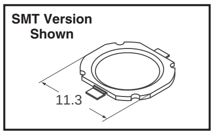
SMT Version Shown

ED Series: Disc contact is a momentary tact switch with short travel and good tactile feedback. Discs are a snap dome short travel dome contact for mounting directly on a PCB. Designed for low profile applications where end users want to use a customized overlay to go over these domes. PC mount leads or SMT terminals. **Function:** Momentary action **Circuit:** SPST-NO **Switching:** • Voltage Maximum: Silver/Gold 100VAC/DC • Current Maximum: Silver: 100mA; Gold: 50mA **Contact Resistance:** Silver: 10mΩ; Gold: 15mΩ **Total Travel:** 0.3mm **Operating Temperature:** -25°C ~ 70°C

EDM Series: Discs are higher performance longer travel snap domes specifically designed for applications such as aircraft instrumentation, radio keypads or other demanding applications. PC mount leads or SMT terminals. **Function:** Momentary action **Circuit:** SPST-NO **Switching:** • Voltage Maximum: 100VDC • Current Maximum: 50mA **Contact Resistance:** 15mΩ **Total Travel:** 0.4mm **Operating Temperature:** -55°C ~ 85°C

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
ED Series Snap Domes					
With PC Pins, 240gF, Flux Sealed, Gold Plating	401-1015-ND	2.75	2.20	1.74	ED G AC 0
With PC Pins, 240gF, Fully Sealed, Gold Plating	401-1017-ND	2.78	2.22	1.76	ED G AC 1
With PC Pins, 240gF, Flux Sealed, Silver Plating	401-1014-ND	1.15	.93	.73	ED S AC 0
With PC Pins, 240gF, Fully Sealed, Silver Plating	401-1016-ND	1.19	.95	.76	ED S AC 1
With SMT Tabs, 240gF, Flux Sealed, Gold Plating	401-1402-ND	2.73	2.19	1.73	ED G SC 0
With SMT Tabs, 240gF, Flux Sealed, Silver Plating	401-1404-ND	1.15	.93	.73	ED S SC 0
With SMT Tabs, 240gF, Fully Sealed, Silver Plating	401-1405-ND	1.19	.95	.76	ED S SC 1
EDM Series Snap Domes					
With PC Pins, 450gF, Gold Plating	401-1019-ND	4.89	3.92	3.10	EDM 450 G AC
With SMT Tabs, 450gF, Gold Plating	401-1020-ND	6.39	5.12	4.05	EDM 450 G SC
With PC Pins, 450gF, Silver Plating	401-1021-ND	4.09	3.28	2.59	EDM 450 S AC
With SMT Tabs, 450gF, Flux Sealed, Silver Plating	401-1406-ND	4.09	3.28	2.59	EDM 450 S SCO
With PC Pins, 650gF, Gold Plating	401-1018-ND	6.82	5.46	4.33	EDM 650 G AC

KSA Series Sealed Tact Switches, (Washable)

Miniature tact switch is single pole, single throw, normally open and designed for automatic or manual insertion.

Circuit: SPST-NO **Switching:** Current Maximum: Silver: 50mA; Gold: 10mA **Voltage Maximum:** 50VDC **Contact Resistance:** 50mΩ **Total Travel:** .03~0.5mm **Operating Life:** 10^5 **Operating Temperature:** Silver: -40°C ~ 90°C; Gold: -40°C ~ 125°C

MARK II Versions are improved seal versions.

Vertical

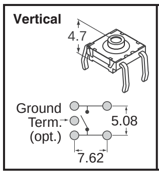

Right Angle

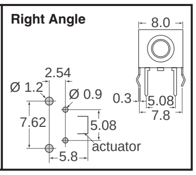

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Vertical, 7.4mm sq, 130gF, Flux Sealed	401-1433-ND	.78	.72	.66	KSA0M210
Vertical, 7.4mm sq, 130gF, Totally Sealed	401-1047-ND	.81	.75	.69	KSA0M211
Vertical, 7.4mm sq, 130gF, Totally Sealed	401-1807-ND†	.81	.75	.69	KSA0M211LFT
Vertical, 6.2mm sq, 130gF, Mark II Sealed	401-1434-ND	.89	.83	.76	KSA0M212
Vertical, 7.4mm sq, 130gF, Mark II Sealed	401-1808-ND†	.89	.83	.76	KSA0M212LFT
Vertical, 7.4mm sq, 130gF, Flux Sealed, Long Life	401-1435-ND	.87	.81	.74	KSA0M310
Vertical, 7.4mm sq, 130gF, Totally Sealed, Long Life	401-1048-ND	.89	.83	.76	KSA0M311
Vertical, 7.4mm sq, 130gF, Totally Sealed, Long Life	401-1809-ND†	.89	.83	.76	KSA0M311LFT
Vertical, 6.2mm sq, 130gF, Mark II Sealed, Long Life	401-1436-ND	.98	.91	.84	KSA0M312
Vertical, 7.4mm sq, 130gF, Mark II Sealed, Long Life	401-1810-ND†	.98	.91	.84	KSA0M312LFT
Vertical, 7.4mm sq, 130gF, Flux Sealed, Long Life, Gold	401-1437-ND	1.18	1.09	1.00	KSA0M330
Vertical, 7.4mm sq, 130gF, Flux Sealed, Long Life, Gold	401-1811-ND†	1.20	1.11	1.02	KSA0M331LFT
Vertical, 7.4mm sq, 130gF, Mark II Sealed, Long Life, Gold	401-1812-ND†	1.29	1.19	1.09	KSA0M332LFT
Vertical, 7.4mm sq, 300gF, Flux Sealed	401-1439-ND	.79	.73	.67	KSA0M410
Vertical, 7.4mm sq, 300gF, Totally Sealed	401-1049-ND	.82	.76	.70	KSA0M411
Vertical, 7.4mm sq, 300gF, Totally Sealed	401-1813-ND†	.82	.76	.70	KSA0M411LFT
Vertical, 6.2mm sq, 300gF, Mark II Sealed	401-1440-ND	.90	.84	.77	KSA0M412
Vertical, 7.4mm sq, 300gF, Mark II Sealed	401-1814-ND†	.90	.84	.77	KSA0M412LFT
Vertical, 7.4mm sq, 300gF, Mark II Sealed, Gold	401-1815-ND†	1.21	1.12	1.03	KSA0M432LFT
Vertical, 7.4mm sq, 500gF, Flux Sealed	401-1442-ND	.97	.90	.82	KSA0M510
Vertical, 7.4mm sq, 500gF, Totally Sealed	401-1050-ND	.99	.92	.85	KSA0M511
Vertical, 7.4mm sq, 500gF, Totally Sealed	401-1816-ND†	.99	.92	.85	KSA0M511LFT
Vertical, 6.2mm sq, 500gF, Mark II Sealed	401-1443-ND	1.08	1.00	.92	KSA0M512
Vertical, 7.4mm sq, 500gF, Mark II Sealed	401-1817-ND†	1.08	1.00	.92	KSA0M512LFT
Right Angle, 8.0mm sq, 130gF, Flux Sealed	401-1444-ND	.82	.76	.70	KSA0V210
Right Angle, 8.0mm sq, 130gF, Totally Sealed	401-1051-ND	.85	.79	.72	KSA0V211
Right Angle, 8.0mm sq, 130gF, Totally Sealed	401-1818-ND†	.85	.79	.72	KSA0V211LFT
Right Angle, 8.0mm sq, 130gF, Flux Sealed, Long Life	401-1445-ND	.91	.85	.78	KSA0V310
Right Angle, 8.0mm sq, 130gF, Totally Sealed, Long Life	401-1052-ND	.94	.87	.80	KSA0V311
Right Angle, 8.0mm sq, 130gF, Totally Sealed, Long Life	401-1819-ND†	.94	.87	.80	KSA0V311LFT
Right Angle, 8.0mm sq, 130gF, Flux Sealed, Long Life, Gold	401-1446-ND	1.22	1.13	1.04	KSA0V330
Right Angle, 8.0mm sq, 130gF, Flux Sealed, Long Life, Gold	401-1820-ND†	1.25	1.16	1.06	KSA0V331LFT
Right Angle, 8.0mm sq, 300gF, Flux Sealed	401-1447-ND	.84	.78	.71	KSA0V410
Right Angle, 8.0mm sq, 300gF, Totally Sealed	401-1053-ND	.86	.80	.74	KSA0V411
Right Angle, 8.0mm sq, 300gF, Totally Sealed	401-1821-ND†	.86	.80	.74	KSA0V411LFT
Right Angle, 8.0mm sq, 300gF, Flux Sealed, Gold	401-1448-ND	1.14	1.06	.97	KSA0V430
Right Angle, 8.0mm sq, 500gF, Flux Sealed	401-1449-ND	1.01	.94	.86	KSA0V510
Right Angle, 8.0mm sq, 500gF, Totally Sealed	401-1054-ND	1.04	.96	.88	KSA0V511
Right Angle, 8.0mm sq, 500gF, Totally Sealed	401-1822-ND†	1.04	.96	.88	KSA0V511LFT
Vertical, 7.4mm sq, 130gF, Flux Sealed, with Ground	401-1450-ND	.76	.71	.65	KSA1M210
Vertical, 7.4mm sq, 130gF, with Ground	401-1043-ND	.79	.73	.67	KSA1M211
Vertical, 7.4mm sq, 130gF, with Ground	401-1823-ND†	.79	.73	.67	KSA1M211LFT
Vertical, 7.4mm sq, 130gF, Long Life, with Ground	401-1044-ND	.88	.81	.75	KSA1M311
Vertical, 7.4mm sq, 130gF, Long Life, with Ground	401-1824-ND†	.88	.81	.75	KSA1M311LFT
Vertical, 7.4mm sq, 130gF, Totally Sealed, Gold, with Ground	401-1825-ND†	1.18	1.10	1.01	KSA1M331LFT
Vertical, 7.4mm sq, 300gF, Flux Sealed, with Ground	401-1452-ND	.77	.72	.66	KSA1M410
Vertical, 7.4mm sq, 300gF, with Ground	401-1045-ND	.80	.74	.68	KSA1M411
Vertical, 7.4mm sq, 300gF, with Ground	401-1826-ND†	.80	.74	.68	KSA1M411LFT
Vertical, 7.4mm sq, 500gF, Flux Sealed, with Ground	401-1453-ND	.95	.88	.81	KSA1M510
Vertical, 7.4mm sq, 500gF, with Ground	401-1046-ND	.98	.90	.83	KSA1M511
Vertical, 7.4mm sq, 500gF, with Ground	401-1827-ND†	.98	.90	.83	KSA1M511LFT

† ***NEW!*** *RoHS Compliant*

KSA Series Snap-On Switch Caps

Snap-on buttons for vertical KSA switches snap over and are held in place by the KSA body. All buttons must be mounted after the soldering and cleaning process. Buttons are able to be screen printed for custom legend appearances. *(Switch is sold separately).*

Fig. 1

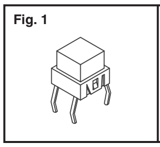

Fig. 2

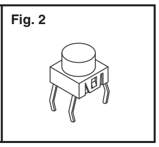

Color	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Fig. 1 — 10mm Square Cap					
Black	401-1237-ND	.37	.34	.32	BTNK0190
Red	401-1238-ND	.37	.34	.32	BTNK0140
Light Grey	401-1239-ND	.37	.34	.32	BTNK0120
Dark Grey	401-1240-ND	.37	.34	.32	BTNK0110
Yellow	401-1241-ND	.37	.34	.32	BTNK0130
Blue	401-1242-ND	.37	.34	.32	BTNK0160
Green	401-1243-ND	.37	.34	.32	BTNK0150
Ivory	401-1244-ND	.37	.34	.32	BTNK0180
Grey-Blue	401-1245-ND	.37	.34	.32	BTNK0170
Fig. 2 — 8mm Round Cap					
Black	401-1246-ND	.37	.34	.32	BTNK0290
Red	401-1247-ND	.37	.34	.32	BTNK0240
Light Grey	401-1248-ND	.37	.34	.32	BTNK0220
Dark Grey	401-1249-ND	.37	.34	.32	BTNK0210
Yellow	401-1250-ND	.37	.34	.32	BTNK0230
Blue	401-1251-ND	.37	.34	.32	BTNK0260
Green	401-1252-ND	.37	.34	.32	BTNK0250
Ivory	401-1253-ND	.37	.34	.32	BTNK0280
Grey-Blue	401-1254-ND	.37	.34	.32	BTNK0270

KA Series Dome Pushbutton Switches

Actuator Button

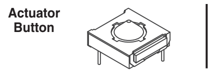

With Actuator Cap

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Momentary, SPST, Sealed, Silicone Rubber Button	CKN1588-ND	5.25	4.20	3.33	KA11B1CBE
Momentary, SPST, Sealed, Actuator Cap, Black	CKN1589-ND	11.40	9.12	7.22	KA11R1CBE2

KSR Series Low Profile Tact Switches

The KSR Series Switches are a miniature tact switch, single pole, normally open contact. The extremely small overall dimensions make the KSR fit perfectly in small applications where density of components is a major constraint **Applications:** Cellular phones, recorders, computers, pointers, radios, medical instrumentation and car entry remotes. **Circuit:** SPST-NO **Switching:** Voltage Minimum/Maximum: 20mV/32V **Current:** Silver: 50mA; Gold: 10mA **Operating Temperature:** Silver: -40°C ~ 85°C, Gold: -40°C ~ 125°C **Contact Material:** Gold and Silver Plated

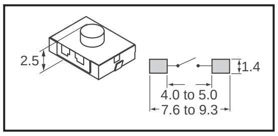

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	T & R Pricing◆ 2,500	ITT Industries Part No.
180gF, J-Lead, SMD, Silver	401-1271-1-ND	.50	.47	.43	—	KSR211J
180gF, Gullwing, SMD, Silver	401-1702-1-ND‡ ***NEW!***	.75	.70	.64	279.00/M	KSR211GLFS
200gF, J-Lead, SMD, Silver	401-1094-1-ND	.50	.47	.43	—	KSR221J
200gF, Gullwing, SMD, Silver	401-1703-1-ND‡ ***NEW!***	.50	.47	.43	257.40/M	KSR221GLFS
200gF, Gull-Lead, SMD, Gold	401-1274-1-ND†	.94	.87	.80	522.00/M	KSR223GNC
200gF, Gull-Lead, SMD, Gold	401-1705-1-ND†‡ ***NEW!***	.86	.80	.74	478.80/M	KSR223GNCLFG
300gF, Gullwing, SMD, Silver	401-1706-1-ND‡ ***NEW!***	.46	.43	.40	257.40/M	KSR231GLFS
450gF, Gullwing, SMD, Silver	401-1707-1-ND‡ ***NEW!***	.46	.43	.40	257.40/M	KSR251GLFS
450gF, Gullwing, SMD, Gold	401-1708-1-ND‡ ***NEW!***	.74	.69	.63	410.40/M	KSR253GLFG
200gF, Gullwing, SMD, Silver	401-1517-1-ND	.50	.47	.43	279.00/M	KSR221G
200gF, Gullwing, SMD, Gold	401-1518-1-ND	.59	.55	.50	325.80/M	KSR223G
200gF, Gullwing, SMD, Gold	401-1704-1-ND‡ ***NEW!***	.59	.55	.50	325.80/M	KSR223GLFG
300gF, Gullwing, SMD, Silver	401-1519-1-ND	.50	.47	.43	279.00/M	KSR231G
450gF, Gullwing, SMD, Silver	401-1520-1-ND	.50	.47	.43	325.80/M	KSR251G

◆ For Tape and Reel part number, change 1-ND to 2-ND. † Normally Closed ‡ ***RoHS Compliant***

QSA Series 4-Way Switches

Features: • Operational life is 100,000 operations • Excellent tactile feel • Only actuate one direction at a time • Provides logic level control

Applications: • Seat Adjustments • Industrial controls • Mirror adjustment • Home entertainment • Multi-function steering wheel **Mechanical:** • Actuation Force: 3.5 ±1N • Life: 100,000 cycles in each direction **Electrical:** • Switching Power Maximum: 0.20VA • Minimum/Maximum Switching Voltage: (VDC) 20mV/30V • Minimum/Maximum Switching Current: 1mA/50mA • Operating Temperature: -40°C ~ 85°C

4-Way

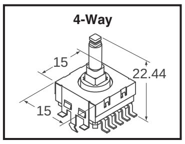

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
4-Way Switch, SMT Version, 350gF	401-1597-ND	5.99	5.33	4.66	QSA4S3.5NH1G8

TPC Tri-Directional Scan Switches

The TPC is a side-actuated miniature switch with normally open contacts providing tactile feedback. Rotation of the actuator closes two individual contacts (left or right), while pushing down in central position simultaneously closes the two contacts.

Applications:
Mobile phones, pagers, personal data assistants (PDAs), handheld electronic devices, digital cameras, camcorders, and communication equipment

Maximum Voltage: 50V
Minimum/Maximum Current: 1mA/50mA
Life Expectancy: 100,000 operations
Bounce: <10ms
Operating Temperature: -40°C ~ 125°C

Fig. 1

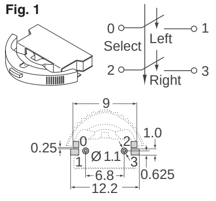

Fig. 2

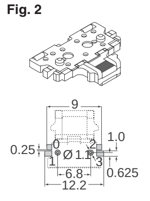

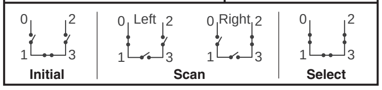

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 2,000	ITT Industries Part No.
1	SMT Switch with Select	401-1264-1-ND	1.77	1.64	1.51	401-1264-2-ND	982.80/M	TPC1133GLFG
2	3 in 1 Tact Switch	401-1618-1-ND	1.59	1.47	1.35	401-1618-2-ND	880.00/M	TPC2133GLFG

TPA Series SMT Navigation Switches

Actuating the shaft in the up, down, right or left direction individually closes four momentary contacts which provide the scanning function. **Switching:** • Voltage Maximum: 24V • Current Maximum: Silver: 50mA; Gold: 10mA **Operating Temperature:** Silver: -40°C ~ 85°C; Gold: -40°C ~ 110°C
Push to select = 400gF

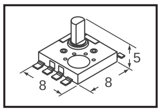

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing† 1,000	ITT Industries Part No.
Momentary, 2-Directional with Selection, 185gF, Silver, Gullwing	401-1277-1-ND	1.19	1.10	1.01	657.00	TPA311GLFS
Momentary, 4-Directional without Selection, 185gF, Gold, Gullwing	401-1129-1-ND	1.83	1.70	1.56	1015.20	TPA413GLFG
Momentary, 4-Directional with Selection, 185gF, Gold, Gullwing	401-1131-1-ND	2.10	1.95	1.78	1164.60	TPA513GLFG
Momentary, 4-Directional with Selection, 185gF, Silver, Gullwing	401-1130-1-ND	1.56	1.44	1.32	862.20	TPA511GLFS

† For Tape and Reel part number, change 1-ND to 2-ND.

KSL Series Tact Switches, (Washable)

MARK II Versions are improved seal versions for immersed cleaning.

Circuit: SPST-NO **Switching:** • Voltage Maximum: 50VDC • Current Maximum: Silver: 50mA; Gold: 10mA **Contact Resistance:** 50mΩ **Contact Material:** Silver plated **Operating Temperature:** Silver: -40°C ~ 90°C; Gold: -40°C ~ 125°C

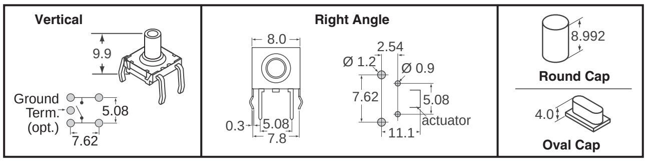

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Vertical, 130gF, Flux Sealed	401-1499-ND	.77	.72	.66	KSL0M210
Vertical, 130gF, Totally Sealed	401-1500-ND	.82	.76	.70	KSL0M211
Vertical, 130gF, Totally Sealed	401-1828-ND‡ ***NEW!***	.82	.76	.70	KSL0M211LFT
Vertical, 130gF, Mark II Sealed	401-1055-ND	.87	.81	.74	KSL0M212
Vertical, 130gF, Mark II Sealed	401-1829-ND‡ ***NEW!***	.87	.81	.74	KSL0M212LFT
Vertical, 130gF, Flux Sealed, Long Life	401-1501-ND	.85	.78	.72	KSL0M310
Vertical, 130gF, Totally Sealed, Long Life	401-1502-ND	.89	.83	.76	KSL0M311
Vertical, 130gF, Totally Sealed, Long Life	401-1830-ND‡ ***NEW!***	.89	.83	.76	KSL0M311LFT
Vertical, 130gF, Mark II Sealed, Long Life	401-1056-ND	.94	.87	.80	KSL0M312
Vertical, 130gF, Mark II Sealed, Long Life	401-1831-ND‡ ***NEW!***	.94	.87	.80	KSL0M312LFT
Vertical, 130gF, Flux Sealed, Long Life, Gold	401-1503-ND	1.09	1.01	.93	KSL0M330
Vertical, 130gF, Flux Sealed, Long Life, Gold	401-1832-ND‡ ***NEW!***	1.13	1.05	.96	KSL0M331LFT
Vertical, 300gF, Flux Sealed	401-1504-ND	.82	.76	.70	KSL0M410
Vertical, 300gF, Totally Sealed	401-1505-ND	.87	.81	.74	KSL0M411
Vertical, 300gF, Totally Sealed	401-1833-ND‡ ***NEW!***	.87	.81	.74	KSL0M411LFT
Vertical, 300gF, Mark II Sealed	401-1057-ND	.92	.85	.78	KSL0M412
Vertical, 300gF, Mark II Sealed	401-1834-ND‡ ***NEW!***	.92	.85	.78	KSL0M412LFT
Vertical, 300gF, Flux Sealed, Gold	401-1506-ND	1.06	.99	.90	KSL0M430
Vertical, 300gF, Flux Sealed, Gold	401-1835-ND‡ ***NEW!***	1.11	1.03	.95	KSL0M431LFT
Vertical, 500gF, Flux Sealed	401-1507-ND	.92	.85	.78	KSL0M510
Vertical, 500gF, Totally Sealed	401-1836-ND‡ ***NEW!***	.97	.90	.82	KSL0M511LFT
Vertical, 500gF, Mark II Sealed	401-1058-ND	1.01	.94	.86	KSL0M512
Vertical, 500gF, Mark II Sealed	401-1837-ND‡ ***NEW!***	1.01	.94	.86	KSL0M512LFT
Right Angle, 130gF, Flux Sealed	401-1509-ND	.85	.78	.72	KSL0V210
Right Angle, 130gF, Totally Sealed	401-1063-ND	.89	.83	.76	KSL0V211
Right Angle, 130gF, Totally Sealed	401-1838-ND‡ ***NEW!***	.89	.83	.76	KSL0V211LFT
Right Angle, 130gF, Flux Sealed, Long Life	401-1510-ND	.92	.85	.78	KSL0V310
Right Angle, 130gF, Totally Sealed, Long Life	401-1064-ND	.97	.90	.82	KSL0V311
Right Angle, 130gF, Totally Sealed, Long Life	401-1839-ND‡ ***NEW!***	.97	.90	.82	KSL0V311LFT
Right Angle, 130gF, Flux Sealed, Long Life, Gold	401-1511-ND	1.16	1.08	.99	KSL0V330
Right Angle, 130gF, Flux Sealed, Long Life, Gold	401-1840-ND‡ ***NEW!***	1.16	1.08	.99	KSL0V331LFT
Right Angle, 300gF, Flux Sealed	401-1512-ND	.89	.83	.76	KSLV410
Right Angle, 300gF, Totally Sealed	401-1065-ND	.94	.87	.80	KSL0V411
Right Angle, 300gF, Totally Sealed	401-1841-ND‡ ***NEW!***	.94	.87	.80	KSL0V411LFT
Right Angle, 500gF, Flux Sealed	401-1513-ND	.99	.92	.84	KSL0V510
Right Angle, 500gF, Totally Sealed	401-1066-ND	1.04	.96	.88	KSL0V511
Right Angle, 500gF, Totally Sealed	401-1842-ND‡ ***NEW!***	1.04	.96	.88	KSL0V511LFT
Vertical, 130gF, Flux Sealed, with Ground	401-1515-ND	.79	.73	.67	KSL1M210
Vertical, 130gF, Totally Sealed, with Ground	401-1059-ND	.84	.78	.71	KSL1M211
Vertical, 130gF, Totally Sealed, with Ground	401-1843-ND‡ ***NEW!***	.84	.78	.71	KSL1M211LFT
Vertical, 130gF, Totally Sealed, with Ground, Long Life	401-1060-ND	.91	.85	.78	KSL1M311
Vertical, 300gF, Flux Sealed, with Ground	401-1516-ND	.84	.78	.71	KSL1M410
Vertical, 300gF, Totally Sealed, with Ground	401-1061-ND	.89	.82	.76	KSL1M411
Vertical, 300gF, Totally Sealed, with Ground	401-1844-ND‡ ***NEW!***	.89	.82	.76	KSL1M411LFT
Vertical, 500gF, Totally Sealed, with Ground	401-1062-ND	.98	.91	.84	KSL1M511
Vertical, 500gF, Totally Sealed, with Ground	401-1845-ND‡ ***NEW!***	.98	.91	.84	KSL1M511LFT
Vertical, 130gF, Totally Sealed, with Ground	401-1514-ND†	.84	.78	.71	KSL1A211
Vertical, 130gF, Totally Sealed, with Ground	401-1846-ND†‡ ***NEW!***	.84	.78	.71	KSL1A211LFT
Oval Cap, 9.5mm x 5.6mm, Black	401-1424-ND	.37	.34	.32	BTNK0390
Round Cap, ø6.2mm, Red	401-1425-ND	.55	.51	.47	BTNK0940

† Automatic Insertion ‡ ***RoHS Compliant***

KSS Series
Miniature Side Actuated Tact Switches

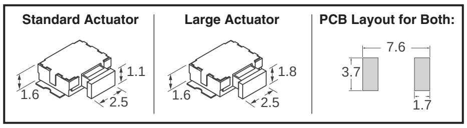

The KSS is a normally open, momentary, SPST miniature switch. It is mainly dedicated to applications with a high density of components.
Circuit: SPST-NO **Switching:** Maximum Voltage: 50V **Min–imum/Maximum Current:** • Silver: 1mA/50mA; • Gold: 1mA/10mA **Life Expectancy:** 10^5 operations **Operating Temperature:** Silver: -40°C ~ 85°C; Gold: -40°C ~ 125°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing† 3,000	ITT Ind. Part No.
Standard Actuator, 200gF, Gullwing	401-1097-1-ND	.44	.41	.38	729.00	KSS221GLFS
Standard Actuator, 250gF, Gullwing	401-1098-1-ND	.44	.41	.38	729.00	KSS231GLFS
Standard Actuator, 250gF, Gullwing, Gold	401-1698-1-ND	.65	.60	.50	1080.00	KSS233GLFG
Standard Actuator, 400gF, Gullwing	401-1099-1-ND	.50	.47	.43	837.00	KSS241GLFS
Large Actuator, 200gF, Gullwing	401-1100-1-ND	.42	.39	.36	691.20	KSS321GLFS
Large Actuator, 250gF, Gullwing	401-1101-1-ND	.42	.39	.36	696.60	KSS331GLFS
Large Actuator, 400gF, Gullwing	401-1102-1-ND	.45	.42	.38	745.20	KSS341GLFS
Standard Actuator, 200gF, Gullwing, Gold	401-1522-1-ND	.57	.53	.49	950.40	KSS223GLFG
Standard Actuator, 400gF, Gullwing, Gold	401-1523-1-ND	.64	.60	.55	1063.80	KSS243GLFG
Large Actuator, 200gF, Gullwing, Gold	401-1524-1-ND	.59	.55	.51	988.20	KSS323GLFG
Large Actuator, 400gF, Gullwing, Gold	401-1525-1-ND	.63	.58	.54	1042.20	KSS343GLFG

† For Tape and Reel part number, change 1-ND to 2-ND.

KMR Series Microminiature Tact Switches for SMT

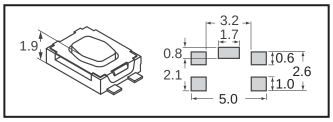

Compatible with lead free soldering. For use in cellular phones, computers, and industrial electronics. KMR's compact size and 4 actuation force options makes the switch ideal for extremely small applications.
Circuit: SPST-NO **Maximum Voltage:** 50VDC **Maximum Current DC:** Silver: 50mA; Gold: 10mA **Operating Temperature:** Silver: -40°C ~ 85°C; Gold: -40°C ~ 125°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing† 7,000	ITT Ind. Part No.
100gF, Gullwing, Silver Contacts	401-1426-1-ND	.45	.42	.39	1751.40	KMR211GLFS
200gF, Gullwing, Silver Contacts	401-1427-1-ND	.45	.42	.39	1751.40	KMR221GLFS
200gF, Gullwing, Gold Contacts	401-1428-1-ND	.63	.58	.54	2431.80	KMR223GLFG
300gF, Gullwing, Silver Contacts	401-1429-1-ND	.46	.43	.39	1776.60	KMR231GLFS
300gF, Gullwing, Gold Contacts	401-1430-1-ND	.64	.60	.55	2494.80	KMR233GLFG
400gF, Gullwing, Silver Contacts	401-1431-1-ND	.53	.50	.46	2066.40	KMR241GLFS
400gF, Gullwing, Gold Contacts	401-1432-1-ND	.77	.72	.66	2998.80	KMR243GLFG

† For Tape and Reel part number, change 1-ND to 2-ND.

KMS Miniature Side Actuated Tact Switches

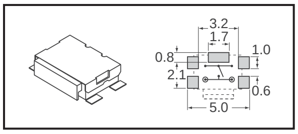

Extremely small size for applications in pagers, medical PDAs and mobile handheld devices. Good tactile feel for feedback to the user. Grounded cover for EMC protection.
Specifications:
• Circuitry: SPST, N/O • Life Expectancy: 100,000 Operations
Electrical: • Maximum Voltage: 50VDC • Maximum Current DC: Silver: 50mA; Gold: 10mA • Bounce Time: ≤3ms
Environmental: Operating Temperature: Silver: -40°C ~ 85°C; Gold: -40°C ~ 125°C

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing† 3,000	ITT Ind. Part No.
Tact Switch, 200gF, Gullwing, Silver Plated w/Pegs	401-1614-1-ND	.63	.59	.54	1053.00	KMS221GPLFS
Tact Switch, 200gF, Gullwing, Gold Plated w/Pegs	401-1616-1-ND	.82	.76	.70	1365.00	KMS223GPLFG
Tact Switch, 250gF, Gullwing, Silver Plated	401-1266-1-ND	.50	.47	.43	837.00	KMS231GLFS
Tact Switch, 250gF, Gullwing, Gold Plated	401-1276-1-ND	.56	.52	.48	934.20	KMS233GLFG
Tact Switch, 250gF, Gullwing, Silver Plated w/Pegs	401-1615-1-ND	.50	.47	.43	837.00	KMS231GPLFS
Tact Switch, 250gF, Gullwing, Gold Plated w/Pegs	401-1617-1-ND	.56	.52	.48	933.00	KMS233GPLFG

† For Tape and Reel part number, change 1-ND to 2-ND.

NEW! KMX Series Microminiature Tact Switch for SMT

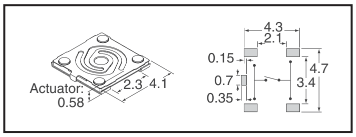

Allows higher board density with compact SMT switch for ultra low profile environment: cell phone keypads, key fob, white goods, medical and military.
Features:
- Ultra low profile 0.58mm
- Sharp Tactile Feel plus Audible Click
- 250k Cycles

Description	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel Pricing† 10,000	ITT Ind. Part No.
160gF, Gullwing, Silver, No Actuator	401-1165-1-ND	.40	.37	.34	219.60/M	KMX111G
160gF, Gullwing, Gold, No Actuator	401-1166-1-ND	.50	.47	.43	279.00/M	KMX113G
220gF, Gullwing, Silver, No Actuator	401-1167-1-ND	.40	.37	.34	219.60/M	KMX121G
220gF, Gullwing, Gold, No Actuator	401-1168-1-ND	.50	.47	.43	279.00/M	KMX123G
160gF, Gullwing, Silver, 1.4mm Actuator	401-1610-1-ND	.26	.24	.22	119.00/M	KMX211G
160gF, Gullwing, Gold, 1.4mm Actuator	401-1611-1-ND	.33	.30	.28	150.00/M	KMX213G
220gF, Gullwing, Silver, 1.4mm Actuator	401-1612-1-ND	.26	.24	.22	119.00/M	KMX221G
220gF, Gullwing, Gold, 1.4mm Actuator	401-1613-1-ND	.33	.30	.28	150.00/M	KMX223G

† For Tape and Reel part number, change 1-ND to 2-ND.

MD and MDP Series Pushbutton Switches

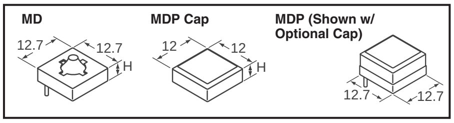

MD Series:
Small momentary key switch with a protective rubber actuator. • **Circuit:** SPST • **Switching:** • Voltage Maximum: 100V AC/DC • Current Maximum: Silver: 100mA AC/DC; Gold: 50mA AC/DC • **Operating Temperature:** -25°C ~ 70°C
MDP Series: Small momentary key switch equipped with a button; Can be PC mounted. • **Circuit:** SPST • **Switching:** • Voltage Maximum: 100V AC/DC • Current Maximum: Silver: 100mA AC/DC; Gold: 50mA AC/DC • **Operating Temperature:** -25°C ~ 70°C

Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
MD Series						
With Rubber Actuator, 260gF, Gold Plated	5	401-1172-ND•	3.50	2.80	2.22	MD G
With Rubber Actuator, 260gF, Silver Plated	5	401-1171-ND•	2.19	1.75	1.39	MD S
MDP Series						
No Cap, 240gF, Silver Plated	4.1	401-1173-ND•	2.00	1.61	1.27	MDP S

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Switch Caps for MDP Series					
White, 12mm square, Finger Recessed	401-1175-ND•	.53	.43	.34	BTN MDP 00
Grey, 12mm square, Finger Recessed	401-1176-ND•	.53	.43	.34	BTN MDP 20
Red, 12mm square, Finger Recessed	401-1177-ND•	.53	.43	.34	BTN MDP 40
Blue, 1 2mm square, Finger Recessed	401-1178-ND•	.52	.42	.33	BTN MDP 60
Black, 12mm square, Finger Recessed	401-1179-ND•	.53	.43	.34	BTN MDP 90

• Not recommended for new design.

DIGITAST SE Series Key Switches

Narrow Body

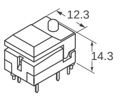

Wide Body

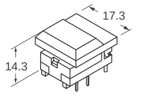

This series is the most versatile electronic switch for printed circuit boards, especially when used with dual in-line packages. Vibration free, short smooth travel through pivoted button tops. Available as momentary button switch as well as push-push action with over-travel release. Micro SPDT system with tactile feeling. Two integral molded "standoff" pins for alignment on PC boards.

Circuit: SPDT **Switching:** • Voltage Maximum: 24VAC • Current Maximum: 10mA DC **Operating Life:** OA: 5,000,000 operations; EE: 500,000 operations **Switching Travel:** 0.0591

Description	Digi-Key Part No.	Price Each			ITT Industries Part No.
		1	25	100	
Narrow Body					
Alternate Action, Black Cap, No LED	401-1108-ND	6.38	5.67	4.97	SE R BK AU EE
Momentary Action, Black Cap, No LED	401-1107-ND	4.10	3.65	3.20	SE R BK AU OA
Momentary Action, Blue Cap, No LED	401-1229-ND	4.10	3.65	3.20	SE R BU AU OA
Momentary Action, Green Cap, No LED	401-1230-ND	4.10	3.65	3.20	SE R GN AU OA
Alternate Action, Grey Cap, No LED	401-1110-ND	6.38	5.67	4.97	SE R GY AU EE
Momentary Action, Grey Cap, No LED	401-1109-ND	4.10	3.65	3.20	SE R GY AU OA
Alternate Action, Red Cap, No LED	401-1112-ND	6.38	5.67	4.97	SE R RD AU EE
Momentary Action, Red Cap, No LED	401-1111-ND	4.10	3.65	3.20	SE R RD AU OA
Momentary Action, White Cap, No LED	401-1231-ND	4.10	3.65	3.20	SE R WH AU OA
Momentary Action, Yellow Cap, No LED	401-1232-ND	4.10	3.65	3.20	SE R YE AU OA
Momentary Action, Black Cap, Green LED	401-1115-ND	5.84	5.20	4.55	SE R L BK GN 7.62 AU OA
Alternate Action, Black Cap, Green LED	401-1669-ND	8.42	7.49	6.55	SERL BK GN 7.62 AU EE
Alternate Action, Black Cap, Red LED	401-1114-ND	8.42	7.49	6.55	SE R L BK RD 7.62 AU EE
Momentary Action, Black Cap, Red LED	401-1113-ND	5.44	4.84	4.23	SE R L BK RD 7.62 AU OA
Alternate Action, Grey Cap, Green LED	401-1119-ND	9.04	8.04	7.04	SE R L GY GN 7.62 AU EE
Alternate Action, Grey Cap, Red LED	401-1118-ND	8.42	7.49	6.55	SERLGYRD7,62AUEE
Momentary Action, Grey Cap, Red LED	401-1117-ND	5.44	4.84	4.23	SE R L GY RD 7.62 AU OA
Alternate Action, Black Cap, Red/Green LED	401-1120-ND	8.85	7.87	6.89	SER2LBKRDGNAUEE
Alternate Action, Grey Cap, Red/Green LED	401-1121-ND	8.85	7.87	6.89	SER2LGYRDGNAUEE
Wide Body					
Alternate Action, Black Cap, No LED	401-1123-ND	6.43	5.72	5.01	SE T BK AU EE
Momentary Action, Black Cap, No LED	401-1122-ND	4.10	3.65	3.20	SE T BK AU OA
Momentary Action, Grey Cap, No LED	401-1124-ND	4.10	3.65	3.20	SE T GY AU OA
Momentary Action, Blue Cap, No LED	401-1233-ND	4.10	3.65	3.20	SE T BU AU OA
Momentary Action, Red Cap, No LED	401-1234-ND	4.10	3.65	3.20	SE T RD AU OA
Momentary Action, White Cap, No LED	401-1235-ND	4.10	3.65	3.20	SE T WH AU OA
Momentary Action, Yellow Cap, No LED	401-1236-ND	4.10	3.65	3.20	SE T YE AU OA
Alternate Action, Black Cap, Green LED	401-1670-ND	8.47	7.53	6.59	SETL BK GN 7.62 AU EE
Alternate Action, Black Cap, Red LED	401-1126-ND	8.47	7.53	6.59	SE T L BK RD 7.62 AU EE
Momentary Action, Black Cap, Red LED	401-1125-ND	5.44	4.84	4.23	SE T L BK RD 7.62 AU OA
Momentary Action, Grey Cap, Red LED	401-1128-ND	5.44	4.84	4.23	SE T L GY RD 7.62 AU OA

D6 Series Pushbutton Switches

Square Cap

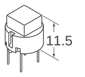

Round

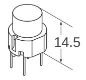

Plunger

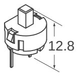

NEW! Flat

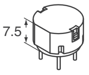

Square Button

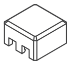

PCB Layout

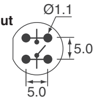

The D6 is an open keyswitch specially designed for digital electronic controls. Comes complete with colored cap already attached. **Circuit:** SPST **Switching:** Current Maximum: 100mA AC **Dielectric Strength:** 1000VAC **Contact Resistance:** 100mΩ **Switching Travel:** 0.031 **Contact Material:** Silver Plated **Operating Temperature:** -20°C ~ 85°C

Description	Digi-Key Part No.	Price Each			ITT Industries Part No.
		1	25	100	
Square Cap, White, Momentary Action, 130gF	401-1004-ND	.94	.75	.60	D6 C 00
Square Cap, White, Momentary Action, 130gF	401-1884-ND‡ ***NEW!***	.94	.75	.60	D6C00 LFS
Square Cap, Grey, Momentary Action, 130gF	401-1005-ND	.94	.75	.60	D6 C 10
Square Cap, Grey, Momentary Action, 130gF	401-1885-ND‡ ***NEW!***	.94	.75	.60	D6C10 LFS
Square Cap, Yellow, Momentary Action, 130gF	401-1886-ND‡ ***NEW!***	.94	.75	.60	D6C30 LFS
Square Cap, Red, Momentary Action, 130gF	401-1887-ND‡ ***NEW!***	.94	.75	.60	D6C40 LFS
Square Cap, Green, Momentary Action, 130gF	401-1888-ND‡ ***NEW!***	.94	.75	.60	D6C50 LFS
Square Cap, Blue, Momentary Action, 130gF	401-1889-ND‡ ***NEW!***	.94	.75	.60	D6C60 LFS
Square Cap, Ivory, Momentary Action, 130gF	401-1890-ND‡ ***NEW!***	.94	.75	.60	D6C80 LFS
Square Cap, Black, Momentary Action, 130gF	401-1003-ND	.94	.75	.60	D6 C 90
Square Cap, Black, Momentary Action, 130gF	401-1891-ND‡ ***NEW!***	.94	.75	.60	D6C90 LFS
Square Cap, Black, Mom. Action, High Temp., 130gF	401-1582-ND	1.05	.97	.89	D6 C 90 HTLFG
Round Cap, White, Momentary Action, 130gF	401-1894-ND‡ ***NEW!***	.94	.75	.60	D6R00 LFS
Round Cap, Grey, Momentary Action, 130gF	401-1010-ND	.94	.75	.60	D6 R 10
Round Cap, Grey, Momentary Action, 130gF	401-1896-ND‡ ***NEW!***	.94	.75	.60	D6R10 LFS
Round Cap, Yellow, Momentary Action, 130gF	401-1897-ND‡ ***NEW!***	.94	.75	.60	D6R30 LFS
Round Cap, Red, Momentary Action, 130gF	401-1007-ND	.94	.75	.60	D6 R 40
Round Cap, Red, Momentary Action, 130gF	401-1898-ND‡ ***NEW!***	.94	.75	.60	D6R40 LFS
Round Cap, Green, Momentary Action, 130gF	401-1899-ND‡ ***NEW!***	.94	.75	.60	D6R50 LFS
Round Cap, Blue, Momentary Action, 130gF	401-1011-ND	.94	.75	.60	D6 R 60
Round Cap, Blue, Momentary Action, 130gF	401-1900-ND‡ ***NEW!***	.94	.75	.60	D6R60 LFS
Round Cap, Ivory, Momentary Action, 130gF	401-1901-ND‡ ***NEW!***	.94	.75	.60	D6R80 LFS
Round Cap, Black, Momentary Action, 130gF	401-1902-ND‡ ***NEW!***	.94	.75	.60	D6R90 LFS
Round Cap, Black, Mom. Action, High Temp., 130gF	401-1585-ND	1.05	.97	.89	D6 R 90 HTLFG
Plunger, Black, Momentary Action, 130gF	401-1893-ND‡ ***NEW!***	.94	.75	.60	D6L90 LFS
Plunger, Black, Mom. Action, High Temp., 130gF	401-1584-ND	1.05	.97	.89	D6 L 90 HTLFG
Flat, Black, Momentary Action, 130gF	401-1892-ND‡ ***NEW!***	.94	.75	.60	D6F90 LFS
Square Button, Grey, For D6C Series	401-1579-ND	.57	.53	.49	BTN D6 10
Square Button, Red, For D6C Series	401-1580-ND	.57	.53	.49	BTN D6 40
Square Button, Blue, For D6C Series	401-1581-ND	.57	.53	.49	BTN D6 60

‡ ***RoHS Compliant***

Piezo Pulse Pushbuttons

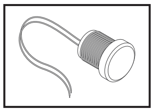

Features: • Piezo switch element, no mechanical wear • One piece hermetically sealed construction **Specifications:** • **Rating:** 250mA continuous, 50V maximum • **Electrical Life:** 10,000,000 actuations typical • **Operating Temperature:** -40°C ~ 85°C • **Circuit Closure Duration:** 50mS minimum • **Materials:** Housing: Polyetherimide, UL94V-0, black Wire Leads: 22AWG with TFE Teflon insulation; Red positive, violet negative. Hardware included.

Description	Digi-Key Part No.	Price Each			ITT Industries Part No.
		1	25	100	
Momentary, 6” Leads, SPST	CKN1406-ND	18.33	15.84	13.34	KPD1S2W62
Momentary, 4” Leads, SPST	CKN1407-ND	18.09	15.62	13.16	KPD1S2W4

RTE Series Miniature Rotary Switches

Fig. 1 Gullwing

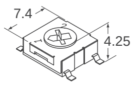

Fig. 2 PC Mount

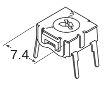

Fig. 3 Reverse PC Mount

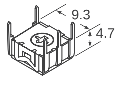

Fig. 4 4 x 7.5mm Shaft

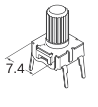

Fig. 5 Button Actuator

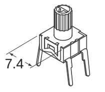

Fig. 6 Right Angle

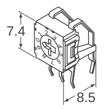

RTE02 Layout

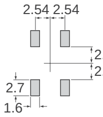

RTE03/10/16 Layout

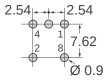

Switching: Voltage Maximum: RTE02 and RTE03: 50V DC; RTE10 and RTE16: 30V DC **Current:** 100mA **Contact Resistance:** RTE02 and RTE03: 100mΩ; RTE10 and RTE16: 150mΩ **Operating Temperature:** -25°C ~ 85°C **Storage Temperature:** -40°C ~ 85°C

Fig.	Description	Digi-Key Part No.	Price Each			ITT Industries Part No.
			1	25	100	
	2 Position Selectors — SPDT					
1	Gullwing, Silver Plating	401-1022-1-ND◆	2.04	1.89	1.73	RTE0200G01
	Gullwing, Silver Plating	401-1022-2-ND§		1413.00/1,250		RTE0200G01
	Gullwing, Silver Plating	401-1863-1-ND◆‡	2.04	1.89	1.73	RTE0200G05
	Gullwing, Silver Plating	401-1863-2-ND§‡		1412.50/1,250		RTE0200G05
	Gullwing, Gold Plating	401-1407-1-ND◆	2.64	2.44	2.24	RTE0200G03
	Gullwing, Gold Plating	401-1407-2-ND§		1828.75/1,250		RTE0200G03
2	PC Mount, Silver Plating	401-1023-ND	2.36	1.89	1.50	RTE0200N01
	PC Mount, Silver Plating	401-1864-ND‡	2.36	1.89	1.50	RTE0200N05
	PC Mount, Gold Plating	401-1408-5-ND	2.29	1.83	1.45	RTE0200N03
	PC Mount, ESD Pin, Gold Plating	401-1412-5-ND	2.20	1.76	1.40	RTE0210N03
3	Reverse PC Mount, Gold Plating	401-1409-5-ND	2.33	1.87	1.48	RTE0200R03
4	4 x 7.5mm Shaft, Silver Plating	401-1024-ND	2.07	1.66	1.31	RTE0201N01
	4 x 7.5mm Shaft, Silver Plating	401-1865-ND‡	2.07	1.66	1.31	RTE0201N05
	4 x 7.5mm Shaft, Gold Plating	401-1410-5-ND	2.60	2.09	1.65	RTE0201N03
5	Button Actuator, Silver Plating	401-1025-ND	2.07	1.66	1.31	RTE0202N01
	Button Actuator, Silver Plating	401-1866-ND‡	2.07	1.66	1.31	RTE0202N05
	Button Actuator, Gold Plating	401-1411-5-ND	2.50	2.00	1.59	RTE0202N03
	3 Position Selectors — SP3T					
1	Gullwing, Silver Plating	401-1026-ND	1.88	1.51	1.20	RTE0300G01
	Gullwing, Gold Plating	401-1413-1-ND◆	2.73	2.52	2.31	RTE0300G03
	Gullwing, Gold Plating	401-1413-2-ND§		1887.50/1,250		RTE0300G03
2	PC Mount, Silver Plating	401-1027-ND	1.77	1.42	1.13	RTE0300N01
	PC Mount, Silver Plating	401-1867-ND‡	1.77	1.42	1.13	RTE0300N05
	PC Mount, Gold Plating	401-1414-5-ND	2.29	1.83	1.45	RTE0300N03
3	Reverse PC Mount, Gold Plating	401-1415-5-ND	2.43	1.95	1.54	RTE0300R03
4	4 x 7.5mm Shaft, Silver Plating	401-1028-ND	2.07	1.66	1.31	RTE0301N01
	4 x 7.5mm Shaft, Silver Plating	401-1868-ND‡	2.07	1.66	1.31	RTE0301N05
	4 x 7.5mm Shaft, Gold Plating	401-1416-5-ND	2.60	2.09	1.65	RTE0301N03
5	Button Actuator, Silver Plating	401-1029-ND	2.07	1.66	1.31	RTE0302N01
	Button Actuator, Silver Plating	401-1869-ND‡	2.07	1.66	1.31	RTE0302N05
	Button Actuator, Gold Plating	401-1417-5-ND	2.60	2.09	1.65	RTE0302N03
	Decimal Code — BCD					
1	Gullwing, Gold Plating	401-1030-1-ND◆	3.51	3.24	2.97	RTE1000G13
	Gullwing, Gold Plating	401-1870-1-ND◆‡	3.51	3.24	2.97	RTE1000G14
	Gullwing, Gold Plating	401-1870-2-ND§‡		2430.00/1,250		RTE1000G14
2	PC Mount, Gold Plating	401-1871-5-ND‡	4.05	3.24	2.57	RTE1000N14
3	Reverse PC Mount, Gold Plated	401-1420-5-ND	3.04	2.44	1.93	RTE1000R13
	Reverse PC Mount, Gold Plated	401-1872-5-ND‡	3.04	2.44	1.93	RTE1000R14
4	4 x 7.5mm Shaft, Gold Plating	401-1032-5-ND	3.06	2.45	1.94	RTE1001N13
	4 x 7.5mm Shaft, Gold Plating	401-1874-5-ND‡	3.06	2.45	1.94	RTE1001N14
	4 x 7.5mm Shaft, Right Angle, Gold Plating	401-1421-5-ND	3.09	2.47	1.96	RTE1001V13
	4 x 7.5mm Shaft, Right Angle, Gold Plating	401-1875-5-ND‡	3.09	2.47	1.96	RTE1001V14
5	Button Actuator, Gold Plating	401-1034-5-ND	3.06	2.45	1.94	RTE1002N13
	Button Actuator, Gold Plating	401-1876-5-ND‡	3.06	2.45	1.94	RTE1002N14
6	Right Angle, Gold Plating	401-1033-5-ND	3.07	2.46	1.95	RTE1000V13
	Right Angle, Gold Plating	401-1873-5-ND‡	3.07	2.46	1.95	RTE1000V14
	Hexadecimal Code — HEX					
1	Gullwing, Gold Plating	401-1877-1-ND◆‡	3.58	3.31	3.03	RTE1600G44
	Gullwing, Gold Plating	401-1877-2-ND§‡		2477.50/1,250		RTE1600G44
2	PC Mount, Gold Plating	401-1878-5-ND‡	3.09	2.48	1.96	RTE1600N44
3	Reverse PC Mount, Gold Plating	401-1422-5-ND	3.09	2.48	1.96	RTE1600R43
	Reverse PC Mount, Gold Plating	401-1879-5-ND‡	3.09	2.48	1.96	RTE1600R44
4	4 x 7.5mm Shaft, Gold Plating	401-1037-5-ND	3.11	2.50	1.98	RTE1601N43
	4 x 7.5mm Shaft, Gold Plating	401-1881-5-ND‡	3.11	2.50	1.98	RTE1601N44
	4 x 7.5mm Shaft, Right Angle, Gold Plating	401-1038-5-ND	3.26	2.62	2.07	RTE1601V43
	4 x 7.5mm Shaft, Right Angle, Gold Plating	401-1882-5-ND‡	3.26	2.62	2.07	RTE1601V44
5	Button Actuator, Gold Plating	401-1039-5-ND	3.11	2.50	1.98	RTE1602N43
	Button Actuator, Gold Plating	401-1883-5-ND‡	3.11	2.50	1.98	RTE1602N44
6	Flush, Right Angle, Gold Plating	401-1880-5-ND‡	3.12	2.50	1.98	RTE1600V44

◆ Cut Tape § Tape and Reel ‡ ***NEW!*** ***RoHS Compliant***

Description	Digi-Key Part No.	Price Each			ITT Industries Part No.
		1	25	100	
Optional Switch Caps for RTE Series					
Red, Open Window Style for Button Actuator Switch Only	401-1040-ND	.27	.22	.17	BTNRTE40
Green, Open Window Style for Button Actuator Switch Only	401-1041-ND	.27	.22	.17	BTNRTE50
Black, Open Window Style for Button Actuator Switch Only	401-1042-ND	.27	.22	.17	BTNRTE90

tyco
Electronics

Alcoswitch

Pushbutton Switches

Alcoswitch Pushbutton Switches feature high temperature plastics. They have silver clad and gold plated contacts to satisfy the requirements of logic level and power switching applications. We carry a wide variety of accessories; caps, guards and boot seals to give you that professional finished look.

Fig.	Circuit	Action	Contact Rating	Features	Digi-Key Part No.	Price Each 1	25	50	Alcoswitch Part No.
1	SPST	Mom - NO	0.4VA	Black Sq. Actuator	450-1122-ND	2.41	1.88	1.78	TP11CGPC0
	SPST	Mom - NO		Black Sq. Actuator	450-1367-ND◊ ***NEW!***	2.41	1.88	1.78	TP11CGPC004
	SPST	Mom - NO		Red Sq. Actuator	450-1124-ND	2.90	2.26	2.15	TP11CGPC2
	SPST	Mom - NO		Red Sq. Actuator	450-1368-ND◊ ***NEW!***	2.90	2.26	2.15	TP11CGPC204
	SPST	Mom - NO		Black Round Actuator	450-1118-ND	2.14	1.67	1.58	TPA11CGPC0
	SPST	Mom - NO		Red Round Actuator	450-1120-ND	2.77	2.16	2.05	TPA11CGPC2
	SPST	Mom - NO		Red Round Actuator	450-1371-ND◊ ***NEW!***	2.79	2.17	2.06	TPA11CGPC204
2	SPST	Mom - NO	0.4VA	Black Sq. Actuator	450-1123-ND	2.32	1.81	1.71	TP11CGRA0
	SPST	Mom - NO		Black Sq. Actuator	450-1369-ND◊ ***NEW!***	2.32	1.81	1.71	TP11CGRA004
	SPST	Mom - NO		Red Sq. Actuator	450-1125-ND	2.97	2.31	2.20	TP11CGRA2
	SPST	Mom - NO		Red Sq. Actuator	450-1370-ND◊ ***NEW!***	2.99	2.33	2.21	TP11CGRA204
	SPST	Mom - NO		Black Round Actuator	450-1119-ND	3.15	2.45	2.33	TPA11CGRA0
	SPST	Mom - NO		Black Round Actuator	450-1372-ND◊ ***NEW!***	3.13	2.44	2.31	TPA11CGRA004
	SPST	Mom - NO		Red Round Actuator	450-1373-ND◊ ***NEW!***	2.54	1.98	1.88	TPA11CGRA204
	SPDT	Mom		Black Round Actuator	450-1344-ND◊ ***NEW!***	4.12	3.21	3.04	TPA11FGRA004
3	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Black Actuator	450-1374-ND◊ ***NEW!***	2.72	2.12	2.01	TPB11CGPC004
	SPST	Mom - NO		10-48 Bushing - Black Actuator	450-1377-ND◊ ***NEW!***	5.33	4.15	3.94	TPC11CGPC004
	SPST	Mom - NO		Unthreaded Bushing - Red Actuator	450-1117-ND	3.85	3.00	2.84	TPD11CGPC2
	SPST	Mom - NO		Unthreaded Bushing - Red Actuator	450-1379-ND◊ ***NEW!***	3.85	3.00	2.84	TPD11CGPC204
4	SPDT	Mom	0.4VA	Unthreaded Bushing - Black Actuator	450-1068-ND	3.78	2.94	2.79	TPB11FGVRA0
	SPDT	Mom		Unthreaded Bushing - Black Actuator	450-1346-ND◊ ***NEW!***	3.83	2.98	2.83	TPB11FGVRA004
5	SPST	Mom - NO	0.4VA	Unthreaded Bushing - Sealed SMD	450-1069-ND	5.51	4.29	4.07	TSPD11CGSRA0
	SPST	Mom - NO		Unthreaded Bushing - Black Actuator	450-1074-ND	3.04	2.37	2.25	TPB11CGRA0
	SPST	Mom - NO		Unthreaded Bushing - Black Actuator	450-1376-ND◊ ***NEW!***	3.04	2.37	2.25	TPB11CGRA004
	SPST	Mom - NO		Unthreaded Bushing - Red Actuator	450-1075-ND	4.01	3.12	2.96	TPB11CGRA2
	SPST	Mom - NO		Unthreaded Bushing - Red Actuator	450-1375-ND◊ ***NEW!***	4.01	3.12	2.96	TPB11CGRA204
	SPDT	Mom		Unthreaded Bushing - Black Actuator	450-1067-ND	6.28	4.89	4.64	TPB11FGRA0
	SPDT	Mom		Unthreaded Bushing - Black Actuator	450-1345-ND◊ ***NEW!***	3.80	2.96	2.81	TPB11FGRA004
	SPST	Mom - NO		10-48 Bushing - Black Actuator	450-1108-ND	9.70	7.55	7.16	TPC11CGRA0
	SPST	Mom - NO		10-48 Bushing - Black Actuator	450-1378-ND◊ ***NEW!***	5.83	4.54	4.30	TPC11CGRA004
	SPST	Mom - NO		Unthreaded Bushing - Black Actuator	450-1115-ND	3.78	2.94	2.79	TPD11CGRA0
	SPST	Mom - NO		Unthreaded Bushing - Black Actuator	450-1380-ND◊ ***NEW!***	3.83	2.98	2.83	TPD11CGRA004
	SPST	Mom - NO		1/4 x 40 Bushing - Black Actuator	450-1381-ND◊ ***NEW!***	5.36	4.17	3.96	TPF11CGRA004
6	SPDT	Alt/Act	6A	THD Bushing uses Fig. 1 Cap Below	450-1087-ND	8.35	6.50	6.16	MPA106D
	SPDT	Mom		THD Bushing uses Fig. 1 Cap Below	450-1089-ND	10.48	9.17	7.86	MPA106F
	DPDT	Alt/Act		THD Bushing uses Fig. 1 Cap Below	450-1083-ND	10.20	8.93	7.65	MPA206N
	DPDT	Mom		THD Bushing uses Fig. 1 Cap Below	450-1088-ND	8.68	7.60	6.51	MPA206R
	DPDT	Mom		THD Bushing uses Fig. 1 Cap Below	450-1084-ND	9.74	8.53	7.31	MPA206RPC
	3PDT	Mom		THD Bushing uses Fig. 1 Cap Below	450-1077-ND	14.26	12.48	10.70	MPA306F
	4PDT	Mom		THD Bushing uses Fig. 1 Cap Below	450-1079-ND	16.66	14.58	12.50	MPA406R
	SPDT	Mom		THD Bushing uses Fig. 1 Cap Below	450-1093-ND*	8.18	7.16	6.14	MPE106F
	DPDT	Mom		THD Bushing uses Fig. 1 Cap Below	450-1094-ND*	12.78	11.19	9.59	MPE206R
	4PDT	Alt/Act		THD Bushing uses Fig. 1 Cap Below	450-1071-ND*	18.80	16.45	14.10	MPE406N
7	SPST	Mom - NC	0.5A	THD Bushing with Black Cap	450-1103-ND	5.96	4.64	4.40	MPA103B
	SPST	Mom - NC		THD Bushing with Black Cap	450-1433-ND◊ ***NEW!***	3.67	2.86	2.71	MPA103B04
	SPST	Mom - NO		THD Bushing with Black Cap	450-1109-ND	3.98	3.10	2.94	MPA103C
	SPST	Mom - NO		THD Bushing with Black Cap	450-1434-ND◊ ***NEW!***	4.28	3.33	3.16	MPA103C04
	SPDT	Mom (Tactile)	3A	THD Bushing with Black Cap	450-1092-ND	10.15	7.90	7.49	MPA103F
	SPDT	Mom (Tactile)		THD Bushing with Black Cap	450-1435-ND◊ ***NEW!***	7.81	6.08	5.77	MPA103F04
	SPST	Mom - NO		THD Bushing with Red Cap	450-1436-ND◊ ***NEW!***	4.46	3.47	3.29	MPB103C04
8	SPDT	Alt/Act	6A	THD Bushing with Black Cap	450-1126-ND	9.28	8.12	6.96	MPG106D
	SPDT	Mom		THD Bushing with Black Cap	450-1086-ND	8.62	6.71	6.36	MPG106F
	DPDT	Alt/Act		THD Bushing with Black Cap	450-1073-ND	13.58	11.89	10.19	MPG206N
	DPDT	Mom		THD Bushing with Black Cap	450-1085-ND	13.38	11.71	10.04	MPG206R
	DPDT	Mom		THD Bushing with Black Cap	450-1082-ND	11.84	10.36	8.88	MPG206RPC
	3PDT	Alt/Act		THD Bushing with Black Cap	450-1070-ND	16.96	14.84	12.72	MPG306D
	3PDT	Mom		THD Bushing with Black Cap	450-1076-ND	15.42	13.50	11.57	MPG306F
	4PDT	Mom		THD Bushing with Black Cap	450-1078-ND	22.70	19.87	17.03	MPG406R
9	SPST	Mom - NC	0.5A	THD Bushing with Black Cap	450-1097-ND	5.11	3.98	3.77	MSPF101B
	SPST	Mom - NO		THD Bushing with Red Cap	450-1098-ND	4.57	3.56	3.37	MSPF101C
10	SPST	Mom - NO	1.0VA	THD Bushing with Red Cap	450-1432-ND◊ ***NEW!***	18.42	16.12	13.82	MSPM101C104
11	SPST	Mom - NC	3A	THD Bushing - Black Actuator	450-1100-ND	3.29	2.56	2.43	MSP103B
	SPST	Mom - NC		THD Bushing - Black Actuator	450-1428-ND◊ ***NEW!***	3.62	2.82	2.68	MSP103B04
	SPST	Mom - NO		THD Bushing - Black Actuator	450-1429-ND◊ ***NEW!***	3.85	3.00	2.84	MSP103C004
	SPST	Mom - NO		THD Bushing - Red Actuator	450-1430-ND◊ ***NEW!***	3.20	2.49	2.36	MSP103C204
	SPST	Mom - NC	0.5A	THD Bushing - Black Actuator	450-1099-ND	1.73	1.35	1.28	MSPS103B
	SPST	Mom - NO		THD Bushing - Red Actuator	450-1110-ND	2.03	1.58	1.50	MSPS103C

***** Splashproof ◊ ***RoHS Compliant***

Fig. 1

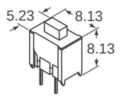

Fig. 2

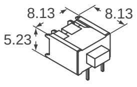

Fig. 3

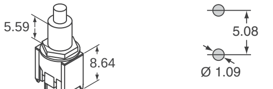

Fig. 4

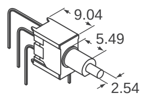

Fig. 5

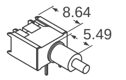

Fig. 6

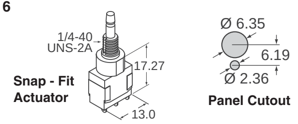

Fig. 7

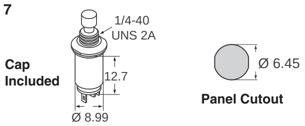

Fig. 8

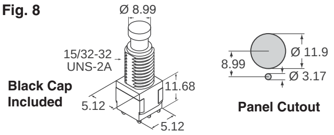

Fig. 9

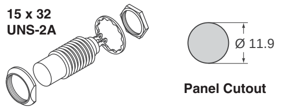

Fig. 10

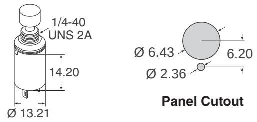

Fig. 11

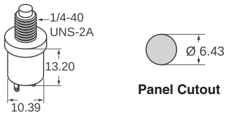

Pushbutton Accessories

Switch Caps: Gloss finish **Bushing Guards:** G12C are chromed brass; remaining are aluminum. **Waterproof Boot Seals:** Fabricated of Neoprene rubber for an environmental seal; Hex nuts are molded in the Neoprene.

Fig.	Description	Color / Type	Use With	Digi-Key Part No.	Price Each 1	25	50	Alcoswitch Part No.
1	Switch Cap, .394" dia, for Snapfit Plunger (Fig. 6) Above	Black	MPS/MSPM/MPE/MPA6	450-1053-ND	1.00	.88	.83	C220-AG
		Red		450-1054-ND	.82	.72	.69	C222-AG
		Green		450-1057-ND	1.08	.95	.90	C225-AG
	Switch Cap, .590" dia, for Snapfit Plunger (Fig. 6) Above	Black	MPS/MSPM/MPE/MPA6	450-1055-ND	1.26	1.11	1.05	C230-AG
		Red		450-1059-ND	1.20	1.05	1.00	C232
2	Bushing Guard 1/4 x 40 THD Smooth Finish	Black Aluminum	1/4 x 40 THD	450-1063-ND	2.00	1.75	1.66	G12B
		Brass		450-1064-ND	1.88	1.65	1.57	G12C
	Bushing Guard 1/4 x 40 THD Knurled Finish	Aluminum	1/4 x 40 THD	450-1066-ND	2.76	2.42	2.30	G12KA
	Bushing Guard 1/4 x 40 THD Knurled Finish	Black Aluminum		450-1062-ND	3.38	2.96	2.81	G13KB
	Bushing Guard 1/4 x 40 THD Knurled Finish	Clear Aluminum		450-1150-ND	3.22	2.82	2.68	G13KA
	Bushing Guard 15/32" THD Smooth Finish	Aluminum	MSPF Series	450-1060-ND	4.30	3.77	3.57	G15
3	Waterproof Boot 10-48 THD, H = .276	Black	TP Series	450-1044-ND	5.16	4.52	4.29	BP10480
	Waterproof Boot 1/4 x 40 THD, H = .460	Black	MSPM/MPA3/MPS/TP	450-1045-ND	5.10	4.47	4.24	BP14400
	Waterproof Boot 1/4 x 40 THD, H = .460	Gray	MSPM/MPA3/MPS/TP	450-1046-ND	3.44	3.01	2.86	BP14408
	Waterproof Boot 1/4 x 40 THD, H = .300	Black	MSPMBS/MSPMCS and MSP3/MPA3/TP	450-1051-ND	5.10	4.47	4.24	BPA14400
	Waterproof Boot 1/4 x 40 THD, H = .460	Black	MSPM/MPS3/MPA3/TP	450-1049-ND	5.18	4.54	4.30	BP2010
	Waterproof Boot 1/4 x 40 THD, H = .460	Black	MSPM/MSP3/MPA3/TP	450-1155-ND	3.52	3.08	2.93	BP1900
	Waterproof Boot 15/32-32 THD, H = .472	Black	MSPF/MPG	450-1047-ND	4.36	3.82	3.62	BP15320
	Waterproof Boot 15/32-32 THD, H = .472	Red	MSPF/MPG	450-1048-ND	4.36	3.82	3.62	BP15322
	Waterproof Boot 15/32-32 THD, H = .472	Black	MSPF/MPG	450-1050-ND	3.44	3.01	2.86	BP5900

Fig. 1

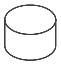

Fig. 2

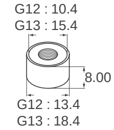

Fig. 3

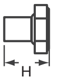

tyco Electronics

Alcoswitch

Tact Switches

Specifications: • **Operating Temperature:** -20°C ~ 70°C (FSMSM: -20°C ~ 80°C) **Characteristics**: • **Contact Rating:** 50mA @12VDC (FSMSM: 500mΩ Maximum) • **Initial Contact Resistance:** 100mΩ Maximum • **Life Expectancy:** 100,000 Cycles (FSMSM: 20,000 Cycles)

Fig.	Description	Dim. H (mm)	Digi-Key Part No.	Price Each			Alcoswitch Part No.
				1	10	25	
1	Tact Switch 12mm, SPST, Mom., 160GF	4.3	450-1131-ND	.56	.45	.37	FSM100
	Tact Switch 12mm, SPST, 160GF	7.49	450-1157-ND	.59	.46	.38	FSM101
2	Tact Switch 12mm, SPST, SQ Act., 160GF, A=3.8mm	7.3	450-1158-ND	.59	.46	.38	FSM103
3	Tact Switch 12mm with Ext. Actuator, SPST, 160GF	12	450-1128-ND	.59	.46	.38	FSM102
4	Tact Switch 12mm, Rt. Angle with Post Act., SPST, 160GF	11.15	450-1127-ND	.61	.48	.40	FSM104
5	Tact Switch 6mm without Gnd., 160GF, Black	4.3	450-1146-ND	.43	.35	.28	FSM2J
	Tact Switch 6mm without Gnd., 160GF, Black	5.0	450-1143-ND	.46	.36	.30	FSM4J
	Tact Switch 6mm without Gnd., 160GF, Blue	7.0	450-1161-ND	.46	.36	.30	FSM6J
	Tact Switch 6mm without Gnd., 160GF, Black	9.5	450-1144-ND	.54	.43	.35	FSM8J
	Tact Switch 6mm without Gnd., 160GF, Ivory	7.3	450-1148-ND	.54	.43	.35	FSM10J
	Tact Switch 6mm without Gnd., 160GF, Black	13.0	450-1149-ND	.54	.43	.35	FSM14J
	Tact Switch 6mm without Gnd., 160GF, Black	17.0	450-1142-ND	.56	.45	.37	FSM16J
	Tact Switch 6mm without Gnd., 160GF, Black	8.51	450-1167-ND	.56	.45	.37	FSM18J
6	Tact Switch 6mm with Gnd., 160GF, Black	4.3	450-1147-ND	.65	.52	.42	FSM1J
	Tact Switch 6mm with Gnd., 160GF, Blue	7.0	450-1169-ND	.56	.45	.37	FSM5J
	Tact Switch 6mm with Gnd., 160GF, Black	9.5	450-1170-ND	.59	.46	.38	FSM7J
	Tact Switch 6mm with Gnd., 160GF, White	8.0	450-1171-ND	.59	.46	.38	FSM11J
	Tact Switch 6mm with Gnd., 160GF, Black	13.0	450-1172-ND	.59	.46	.38	FSM13J
7	Tact Switch SPST with Gnd., SMT, 160GF, Black	3.09	450-1132-ND	.91	.72	.59	FSM1LP
	Tact Switch SPST with Gnd., SMT, 260GF, Red	3.09	450-1139-ND	.91	.72	.59	FSM1LPA
8	Tact Switch 6X3.5mm, SPST, 100GF	5.0	450-1173-ND	.72	.57	.47	FSM
	Tact Switch 6X3.5mm, SPST, 100GF	4.3	450-1174-ND	.61	.48	.40	FSMC
9	Tact Switch 6 x 3.5mm, SPST, SMT, 100GF	4.57	450-1140-ND	.87	.69	.56	FSMSM
10	Tact Switch 6X3.5mm, SPST, Board Edge MNT, 100GF	4.32	450-1175-ND	.89	.70	.58	FSMJM
11	Tact Switch 6mm, SMT, 160GF, Black	4.3	450-1130-ND	.50	.40	.33	FSM2JSMA
	Tact Switch 6mm, SMT, 160GF, Black	5.0	450-1129-ND	.54	.43	.35	FSM4JSMA
	Tact Switch 6mm, SMT, 160GF, Blue	7.0	450-1133-ND	.56	.45	.37	FSM6JSMA
12	Tact Switch 6mm, Extended Act., Black, A=2.42mm	7.51	450-1141-ND	.41	.33	.27	FSMCD
	Tact Switch 6mm, Extended Act., Black, A=2.80mm	7.51	450-1176-ND	.41	.33	.27	FSMCDA
13	Tact Switch 6mm, Right Angle, 160GF, A=2.42mm	6.35	450-1177-ND	.56	.45	.37	FSMRACD
	Tact Switch 6mm, Right Angle, 160GF, A=2.80mm	6.35	450-1178-ND	.59	.46	.38	FSMRACDA
14	Tact Switch 6mm, Right Angle, 160GF	3.15	450-1135-ND	.54	.43	.35	FSMRA1J
	Tact Switch 6mm, Right Angle, 160GF	3.86	450-1136-ND	.54	.43	.35	FSMRA2J
	Tact Switch 6mm, Right Angle, 160GF	5.84	450-1137-ND	.69	.55	.45	FSMRA3J
	Tact Switch 6mm, Right Angle, 160GF	8.36	450-1179-ND	.59	.46	.38	FSMRA4J
	Tact Switch 6mm, Right Angle, 160GF	6.15	450-1180-ND	.54	.43	.35	FSMRA5J
	Tact Switch 6mm, Right Angle, 160GF	6.85	450-1181-ND	.59	.46	.38	FSMRA6J
	Tact Switch 6mm, Right Angle, 160GF	11.86	450-1134-ND	.63	.50	.41	FSMRA7J

Fig. 1

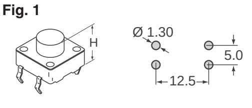

Fig. 2

Dim. in mm

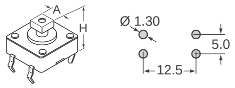

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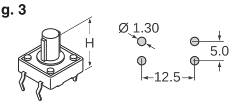

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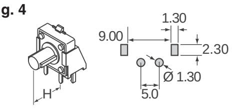

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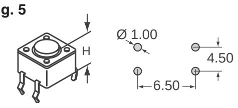

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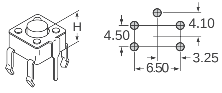

Fig. 7

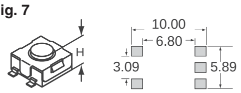

Fig. 8

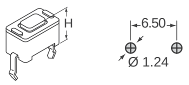

Fig. 9

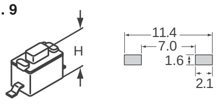

Fig. 10

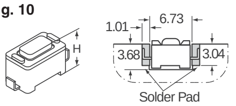

Fig. 11

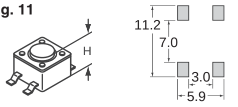

Fig. 12

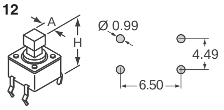

Fig. 13

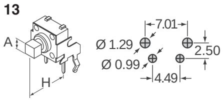

Fig. 14

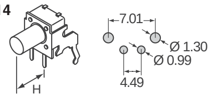

Rocker Switches

Alcoswitch TRD Series are robust Rocker Switches designed for a round hole mounting. All switches are black in color and come complete with mounting nut. **Contact Rating:** 3A @ 125VAC (Silver) and 0.4VA Maximum @ 20VDC (Gold). (This applies to the TR Series, but not the PR Series.)

Fig. 1

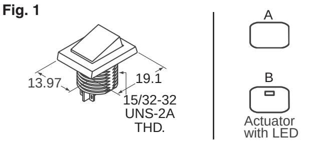

Fig. 2

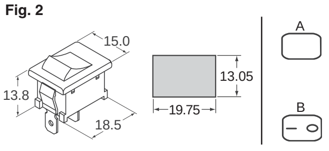

Fig. 3

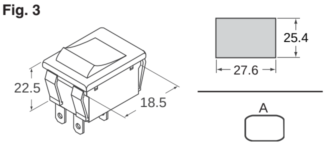

Fig.	Circuit	Function	Terminal	Features	Current	Digi-Key Part No.	Price Each				Alcoswitch Part No.
							1	10	25	50	
TRD Series — Round Mounting Hole Rocker Switches											
1A	DPDT	On-On	.110” QC	Black Actuator - No Marking	3A - Silver	450-1012-ND	7.98	7.39	6.99	6.63	TRD23N10QC
			.110” QC		3A - Silver	450-1391-ND◊ ***NEW!***	12.97	9.98	8.98	6.99	TRD23N10QC04
			Solder		3A - Silver	450-1013-ND	6.74	6.24	5.90	5.60	TRD23N10WL
			Solder		3A - Silver	450-1390-ND◊ ***NEW!***	10.95	8.43	7.59	5.90	TRD23N10WL04
			Solder		.4VA - Gold	450-1014-ND	6.82	6.31	5.97	5.67	TRD21N10WL
	SPDT	On-On	Solder	Black Actuator - No Marking	3A - Silver	450-1389-ND◊ ***NEW!***	9.20	7.08	6.37	4.96	TRD13D10WL04
		On-On			.4VA - Gold	450-1016-ND	4.08	3.78	3.57	3.39	TRD11D10WL
		Mom-Off-Mom			.4VA - Gold	450-1154-ND	7.80	7.22	6.83	6.48	TRD11G10WL
		On-Off-Mom			.4VA - Gold	450-1015-ND	7.20	6.66	6.30	5.98	TRD11H10WL
1B	SPDT	On-On	Solder	Black Actuator - Red/Green LED	3A - Silver	450-1151-ND	8.72	8.07	7.63	7.24	TRD13D10WLLR25
			Solder	Black Actuator - Red/Green LED	3A - Silver	450-1393-ND◊ ***NEW!***	14.17	10.90	9.81	7.63	TRD13D10WLLR2504
			Solder	Black Actuator - Green LED	3A - Silver	450-1153-ND	7.10	6.57	6.22	5.90	TRD13D10WLLR5
			Solder	Black Actuator - Green LED	3A - Silver	450-1394-ND◊ ***NEW!***	11.54	8.88	7.99	6.22	TRD13D10WLLR504
			.110” QC	Black Actuator - Red LED	.4VA - Gold	450-1018-ND	10.76	9.96	9.42	8.94	TRD11F10QCLR2
			.110” QC	Black Actuator - Red LED	.4VA - Gold	450-1392-ND◊ ***NEW!***	17.49	13.45	12.11	9.42	TRD11F10QCLR204
PR Series — Miniature Snap-In Rocker Switches											
2A	DPST	On-Off	QC	Black Actuator - No Marking	7A - Silver	450-1025-ND	3.97	3.05	2.75	2.14	PRADA1-07F-BB000
	DPDT	On-Off-On			7A - Silver	450-1020-ND	4.65	3.58	3.22	2.51	PRADD3-07F-BB000
	DPDT	On-On			7A - Silver	450-1024-ND	4.65	3.58	3.22	2.51	PRADD1-07F-BB000
	SPST	On-Off	QC	Black Actuator - No Marking	16A - Silver	450-1040-ND	1.30	1.00	.90	.70	PRASA1-16F-BB000
	SPDT	On-Off-On		Black Actuator - No Marking	16A - Silver	450-1028-ND	1.53	1.18	1.06	.83	PRASD3-16F-BB000
	SPST	On-Off		Red LED Window - No Marking	16A - Silver	450-1041-ND	3.06	2.35	2.12	1.65	PRASC1-16F-BBR00
	SPST	On-Off		Red Dot Illumination	16A - Silver	450-1043-ND	1.59	1.23	1.11	.86	PRASB2-16F-BBR00
2B	SPST	On-Off	QC	Black/Red Actuator - I/O Marking	16A - Silver	450-1019-ND	1.30	1.00	.90	.70	PRASA2-16F-BBRBR
—	SPST	On-Off	QC	Euro-Style - Black - No Marking	16A - Silver	450-1038-ND	1.40	1.08	.97	.76	PRBSA1-16F-BB000
3A	DPDT	On-On	QC	Black Actuator - No Marking	16A - Silver	450-1026-ND	3.77	2.90	2.61	2.03	PRDDD1-16F-BB000
	DPST	On-Off				450-1027-ND	3.12	2.40	2.16	1.68	PRDDA1-16F-BB000
	DPDT	On-Off-On				450-1021-ND	4.00	3.08	2.77	2.16	PRDDD3-16F-BB000

◊ ***RoHS Compliant***

A Series Rocker Switches

Specifications: • Contacts/Terminals: Silver/tin lead • Case Material: Thermoset 94V-0 • Operating Temperature: -20°C ~ 85°C **Characteristics:** • Contact Rating: Silver: 2A @ 250VAC; 5A @ 125VAC • Contact Timing: Break-before-make • Life Expectancy: 30,000 Cycles

Fig.	Circuit	Function	Terminal	Features	Contact Rating	Digi-Key Part No.	Price Each				Alcoswitch Part No.
							1	10	25	50	
1	DPDT	On-Off-On	Solder Term	Snap-In Black Bezel	5A	450-1023-ND	6.46	5.98	5.66	5.37	A203J51ZQ00
2	SPDT	On-On	Solder Term	Snap-In Black Bezel	5A	450-1035-ND	3.76	3.48	3.29	3.13	A101J61ZQ00
		Mom-Off-Mom				450-1032-ND	6.94	6.42	6.08	5.77	A105J61ZQ00

Fig. 1

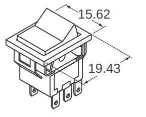

Fig. 2

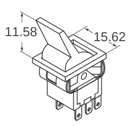

Series 88 Sealed Keypads

Versatile keypads that work indoors or outdoors.

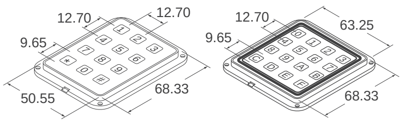

Grayhill Series 88 keypads are fully sealed keypads for use indoors or outdoors that offer a fully sealed snap-dome contact with an operational life of 3 million operations per key. Various colored graphic overlays are available or you can create your own keypad by using 3 items: (1) a blank keyboard; (2) the clear window overlay; (3) a sheet of legend transfers. Optional panel seal gasket provides a dust and water weather seal between your keypad and your equipment panel.

Specifications:
Rating Criteria: • **Rating at 24Vdc:** 10 milliamps, resistive • **Contact Resistance:** Compatible with MOS, TTL and DTL (10Ω maximum) • **Voltage Breakdown:** 250Vac between mutually insulated parts • **Life Expectancy:** 3,000,000 operations per button • **Contact Bounce:** Less than 4 milliseconds at make, 10 milliseconds at break • **Operating Temperature:** -40°C ~ 80°C.

Operating Features: • **Button Travel:** 0.015" (.381mm) nominal total travel • **Typical Operating Force:** 350 grams.

Materials and Finishes: • **Housing:** ABS polycarbonate, black • **Graphic Overlay:** Polyester • **Contact Dome:** Stainless steel, selectively gold plated • **Terminals:** Copper alloy, CDA No. 725, Tin-lead plated.

Fig. 1

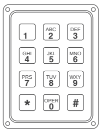

Fig. 2

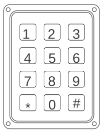

Fig. 3

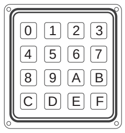

Fig. 4

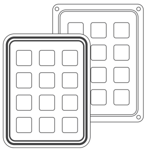

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
	Series 88 Keypads					
1	12-Key Keypad with Black housing; White keys and Black lettering	GH5012-ND	24.07	22.74	18.06	88AB2-143
2	12-Key Keypad with Black housing; White keys and Blue lettering	GH5013-ND	24.07	22.74	18.06	88AB2-152
	12-Key Keypad with Black housing; Blue keys and White lettering	GH5014-ND	24.07	22.74	18.06	88AB2-172
3	16-Key Keypad with Black housing, Blue/White keys and Black/Blue lettering	GH5015-ND	27.81	26.27	20.86	88BB2-052
	16-Key Keypad with Black housing, Blue keys and White lettering	GH5016-ND	27.81	26.27	20.86	88BB2-072
	16-Key Keypad with Black housing, Red keys and White lettering	GH5017-ND	27.81	26.27	20.86	88BB2-082
	Series 88 Clear Key Keypads — Customize Your Own Keypad Layout					
4	12-Key Keypad with Blank keys for use with Legend sheets below	GH5018-ND	19.10	18.05	14.33	88AB2
	16-Key Keypad with Blank keys for use with Legend sheets below	GH5019-ND	21.24	20.07	15.93	88BB2
	20-Key Keypad with Blank keys for use with Legend sheets below	GH5020-ND	28.30	26.73	21.23	88JB2
—	Legend Sheet, Small Print lettering for Blank Keys, dry transfer type	GH5021-ND	3.86	3.65	2.90	87-DT-2096-088
	Legend Sheet, Medium Print lettering for Blank Keys, dry transfer type	GH5022-ND	3.86	3.65	2.90	87-DT-2096-125
	Legend Sheet, Large Print lettering for Blank Keys, dry transfer type	GH5023-ND	3.86	3.65	2.90	87-DT-2096-187
	Legend Sheet, Medium Print lettering for Blank Keys, self-adhesive type	GH5024-ND	5.33	5.04	4.01	87AC2046
4	Clear Protective Overlay for 12-Key Keypad (protects your customized lettering)	GH5025-ND	17.04	16.10	12.79	88-101
	Clear Protective Overlay for 16-Key Keypad (protects your customized lettering)	GH5026-ND	14.94	14.11	11.21	88-001
	Clear Protective Overlay for 20-Key Keypad (protects your customized lettering)	GH5027-ND	15.48	14.63	11.62	88-201
	Panel Seal Gaskets for Series 88 Keypads					
—	Optional Panel Gasket Seal for all 12-Key Series 88 Keypads - Subpanel Mount	GH5028-ND	1.32	1.25	.99	88M2001-2
	Optional Panel Gasket Seal for all 16-Key Series 88 Keypads - Subpanel Mount	GH5029-ND	1.34	1.27	1.01	88M2009-2
	Optional Panel Gasket Seal for all 20-Key Series 88 Keypads - Subpanel Mount	GH5030-ND	1.40	1.33	1.06	88M2019-1
	Optional Panel Gasket Seal for all 12-Key Series 88 Keypads - Top Panel Mount	GH5031-ND	1.65	1.57	1.25	88M2012-1
	Optional Panel Gasket Seal for all 16-Key Series 88 Keypads - Top Panel Mount	GH5032-ND	1.72	1.63	1.30	88M2015-1
	Optional Panel Gasket Seal for all 20-Key Series 88 Keypads - Top Panel Mount	GH5033-ND	1.77	1.68	1.33	88M2018-1

Series 96 Keypads

Grayhill's Series 96 are their most economical 3x4 and 4x4 keypad family. They have such features as conductive rubber contacts with an operational life of 3 million operations and a good tactile feel for positive feedback to the operator. GH5001 thru GH5004 have black legends with white keys and a black ABS housing. GH5008 thru GH5011 have white legends with black keys and a black ABS housing.

Specifications:
Rating Criteria: • **Rating at 12Vdc:** 5mA for .5 seconds • **Contact Bounce:** <12 milliseconds • **Contact Resistance:** <100Ω (@ stated operating force) • **Operation Life:** 3,000,000 minimum cycles per key • **Operating Force:** 175 ±40 grams • **Operating Temperature:** -30°C ~ 80°C ***Material and Finishes:*** • **Terminal Pin:** Phosphor Bronze, solder plated • **PC Board:** FR-4 glass cloth epoxy • **Keypad:** Silicone rubber • **Housing:** ABS, cycolac "KJW" • **Housing Color:** Black • **Output:** Matrix (Rear SIL Header)
12 Key mating connector use Digi-Key® part numbers: A3016-ND (connector, 1 piece) / A3007-ND (contacts, 1 package); **16 Key mating connector use Digi-Key® part numbers:** A3017-ND (connector, 1 piece) / A3007-ND (contacts, 1 package)

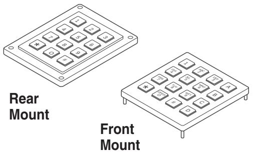

Fig. 1
— 12-Key

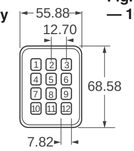

Fig. 2
— 16-Key

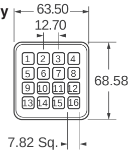

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
1	12 Key Keypad, Front Mount, White Keys	GH5001-ND	11.56	10.15	8.67	96AB2-102-F
1	12 Key Keypad, Rear Mount, White Keys	GH5002-ND	11.56	10.15	8.67	96AB2-102-R
2	16 Key Keypad, Front Mount, White Keys	GH5003-ND	12.87	11.30	9.66	96BB2-006-F
2	16 Key Keypad, Rear Mount, White Keys	GH5004-ND	12.87	11.30	9.66	96BB2-006-R
1	12 Key Keypad, Front Mount, Black Keys	GH5008-ND	11.56	10.15	8.67	96AB2-152-F
1	12 Key Keypad, Rear Mount, Black Keys	GH5009-ND	11.56	10.15	8.67	96AB2-152-R
2	16 Key Keypad, Front Mount, Black Keys	GH5010-ND	12.87	11.30	9.66	96BB2-056-F
2	16 Key Keypad, Rear Mount, Black Keys	GH5011-ND	12.87	11.30	9.66	96BB2-056-R

Series 37 Piezo Keypads and Pushbuttons

Vandal Resistant and Virtually Indestructible

Function:
The switch function is based on the physical principal of the Piezo effect. The external push force activates a Piezo element that releases voltage utilized for switching (MosFet).

Advantages:
• Suitable for harsh environments • Sealed metal surface, epoxy potted • Pressure activated, no moving parts • Water and dust proof • Long life expectancy, tested for 50 million cycles

Applications:
• Vending machines • Lifts • Food industry • Mining equipment • Chemical and petrochemical industry • Safety and security • Medical equipment • Industrial machinery

Specifications:
• Rated Voltage: 24 VAC or VDC • Rated Current: 200mA maximum, 1A if requested • Switch Resistance "ON": 10Ω maximum • Switch Resistance "OFF": >5MΩ • Switch Capacitance: 25 pF • Actuation Force (typical): 3-5N • Operating Temperature: -20°C ~ 75°C • IP68 per IEC 529

Fig. 1

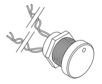

Fig. 2

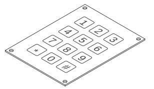

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
	PIEZO Pushbuttons					
1	Momentary with Pins, Smooth Front	GH7300-ND	22.50	21.17	20.26	37FMA1-AAP1N
	Momentary 18" leads with Red LED	GH7301-ND	43.88	42.00	39.50	37FML1-AA11N
	Momentary 18" leads with Red LED Ring	GH7302-ND	90.00	84.08	81.00	37FBRi-AAW1121N
	PIEZO Keypads					
2	PIEZO 12-Key Aluminum Matrix	GH7304-ND	145.00	133.95	130.01	37F1-AB2-AC1
	PIEZO 16-Key Aluminum Matrix	GH7305-ND	155.00	143.55	139.50	37F1-BB2-AC1

Sealed Membrane Keypads

with Removable Legends

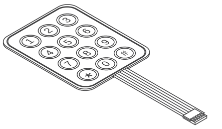

12-Key with 2 legend sets - A-L / 1-9 * / #

Features:
• Adhesive backed for easy mounting • Tactile feedback on all keys • Attached .1" female connector • Legends easily swapped • Allows for custom legends • Rim embossed keys for finger placement • Splash proof, sealed switches • Low profile height (.059 inches)

Specifications:
• **Contact Rating:** 0.5VA, 100mA, 30VDC maximum • **Actuation Force:** 300 grams • **Contact Bounce:** Below 10msec. typical • **Travel:** 0.63 – 0.76mm typical • **Operating Temperature:** –30°C ~ 60°C **Materials:** • **Overlay:** Polyester/polycarbonate blend with uniform low gloss fine texture • **Connector:** Single row female connector, tin lead plating

Digi-Key Part No.	Price Each 1	10	100	ITT Ind. Part No.
CKN6010-ND	25.37	21.91	18.45	4234A1

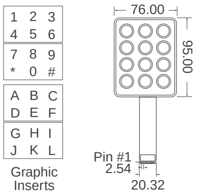

K Range Keypad System

Interchangeable for Different Environments/Applications

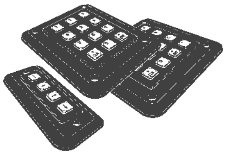

Storm K Range keypads are 100% interchangeable to suit any application. Each series is identical in size and mounting specifications, allowing for easy price/performance selection for different environments. Each keypad is available in calculator or telephone formats (arrows or F-Keys on the 4-key version) or the end user may customize by using optional blank keys. All keypads are compatible with the Storm Universal Encoder and include instructions and a gasket seal. Storm K Range Keypads are ideal for access control, pin numbering/banking functions and kiosk application.

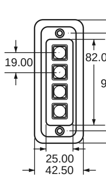

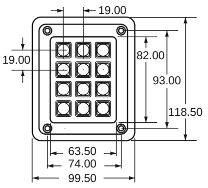

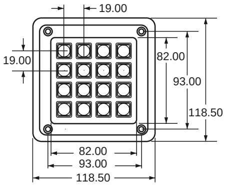

Storm 1000 Series — *Public/Outdoor Environments*

• Anti-Vandal design ideal for public environment • Features metal casing and keys • Fully sealed, to IP67, for use in outdoor environments • Key color: Silver • Operational life: 4 Million cycles (min) per key • Operational Temperature Range: -40°C ~ 100°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, gold plated, square pin, male

Storm PLX Series — *Anti-Vandal, Industrial Sealed Keypad*

• Tough metal key keypad with polymer housing • Ideal for public and industrial environments • Sealed to IP65 for exposed environments • Case Color: Black • Key Color: Silver • Operational life: 4 million cycles (minimum) per key • Operational Temperature Range: -40°C ~ 100°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, goldplated, square pin, male

Storm 2000 Series — *Harsh Industrial/Wet Environments*

• Impact resistant industrial keypad • High impact resistant polymer casing and keys • Sealed to IP65, allowing pressure hose wash • Case Color: Mid Gray • Key Color: Light Gray • Operational life: 4 million cycles (min) per key • Operational Temperature Range: -25°C ~ 85°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, gold plated, square pin, male

Storm 3000 Series — *General Service/Sheltered Outdoor Use*

• Reliable keypad for sheltered environments • General service polymer casing and keys • Rain and splash proof to IP54 specifications • Case Color: Mid Gray • Key Color: Light Gray • Operational life: 2 million cycles (min) per key • Operational Temperature Range: -10°C ~ 85°C • Connector: 0.1" pitch, gold plated, square pin, male

Description	Digi-Key Part No.	Price Each	Storm Part No.
1000 Series (Silver Diecast Housing)			
Vandal Resistant 4-Key Keypad, Arrow keys	MGR1512-ND*	44.89	1K041103
Vandal Resistant 4-Key Keypad, F1-F4 keys	MGR1511-ND*	44.89	1K042103
Vandal Resistant 12-Key Keypad, Telephone	MGR1513-ND†	64.84	1K12T103
Vandal Resistant 12-Key Keypad Calculator	MGR1501-ND†	64.84	1K120103
Vandal Resistant 16-Key Keypad, Telephone	MGR1514-ND‡	77.81	1K16T103
Vandal Resistant 16-Key Keypad Calculator	MGR1601-ND‡	77.81	1K160103
Illuminated Vandal Resistant 4-Key Keypad, Arrow keys	MGR1574-ND	56.12	1KL041103
Illuminated Vandal Resistant 4-Key Keypad, F1-F4 keys	MGR1575-ND	56.12	1KL042103
Illuminated Vandal Resistant 12-Key Keypad, Calculator	MGR1576-ND	81.06	1KL120103
PLX Series			
4-Key Keypad, F1-F4 Keys, Black Case	MGR1541-ND	39.04	PLX042203
4-Key Keypad, Arrow Keys, Black Case	MGR1542-ND	39.04	PLX041203
12-Key Keypad, Calculator Format, Black Case	MGR1543-ND	56.42	PLX120203
12-Key Keypad, Telephone Format, Black Case	MGR1544-ND	56.42	PLX12T203
16-Key Keypad, Calculator Format, Black Case	MGR1545-ND	67.68	PLX160203
16-Key Keypad, Telephone Format, Black Case	MGR1546-ND	67.68	PLX16T203
2000 Series (Mid-Grey Impact Polymer Housing)			
Industrial 4-Key Keypad, Arrow keys	MGR1516-ND*	30.93	2K041103
Industrial 4-Key Keypad, F1-F4 keys	MGR1517-ND*	30.93	2K042103
Industrial 12-Key Keypad, Calculator Format	MGR1518-ND†	44.89	2K120103
Industrial 12-Key Keypad, Telephone Format	MGR1519-ND†	44.89	2K12T103
Industrial 16-Key Keypad, Calculator Format	MGR1520-ND‡	54.87	2K160103
Industrial 16-Key Keypad, Telephone Format	MGR1521-ND‡	54.87	2K16T103
3000 Series (Mid-Grey General Service Polymer Housing)			
Commercial 4-Key Keypad, Arrow keys	MGR1523-ND*	19.75	3K041103
Commercial 4-Key Keypad, F1-F4 keys	MGR1524-ND*	19.75	3K042103
Commercial 12-Key Keypad, Calculator Format	MGR1525-ND†	29.12	3K120103
Commercial 12-Key Keypad, Telephone Format	MGR1526-ND†	29.12	3K12T103
Commercial 16-Key Keypad, Calculator Format	MGR1527-ND‡	35.41	3K160103
Commercial 16-Key Keypad, Telephone Format	MGR1528-ND‡	35.41	3K16T103
Accessories			
Blank Keys for 1000 Series 4 pieces	MGR1515-ND	6.02	1K000003
Blank Keys for 2000/3000 Series 4 pieces	MGR1522-ND	2.58	2K000003
Rear Casing for 12-Key Keypads	MGR1536-ND	28.38	RC120203
Privacy Shroud for 12-Key Keypads	MGR1562-ND	30.38	1KFS0203

* 4-Key Mating Connector use Digi-Key Part No.: WM2003-ND (Connector, 1 pkg)/ WM1114-ND (Contacts, 1 pkg)
† 12-Key Mating Connector use Digi-Key Part No.: WM2006-ND (Connector, 1 pkg)/ WM1114-ND (Contacts, 1 pkg)
‡ 16-Key Mating Connector use Digi-Key Part No.: WM2006-ND (Connector, 1 pkg)/ WM1114-ND (Contacts, 1 pkg)

Keypad Interface

Storm 420 Series Encoders provide an interface between keypads and host systems. Converting the matrix output from Storm keypads, the encoder sends RS232 output to a host system, via the 6 pin .100" (2.54mm) pitch connector. **Features:** • Input Power +5V ± 0.25VDC • RS232 Output via 6 pin Molex .100" (2.54mm) Pitch KK Series Connector • Drives Powertip's 80 character LCD Display from keypad • RS232 **Mates With: • Connector**: WM2004-ND • **Contact**: WM2312-ND

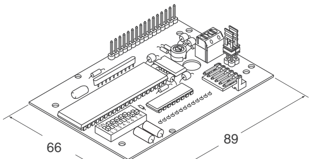

MGR1602-ND.............................. **$69.73**

Storm GFX Series

Customizable Keypad

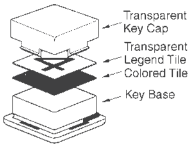

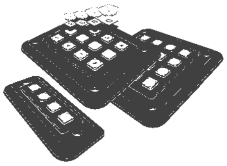

Available with Full Key Illumination

Graphic Series Keypads feature customizable keytop legends. Keypad layouts are customized by inserting legend tiles into the transparent keycap then securing the self-locking cap onto the key base. Once pressed into place, the keycap provides a permanent cover resistant to water, dust and physical damage.

Illuminated Graphic Series Keypads are perfect for dimly lit environments. They also feature easily customizable legends, each keytop can be illuminated in a wide range of colors using the translucent color tiles. Available with white or red/green LED key illumination. • Fully customizable impact-resistant keypads • Ideal for commercial and industrial applications • Rain and splash proof to IP54 specifications • 4, 12 and 16 key formats available • Case Color: Black • Operational life: 2 million cycles (min) per key • Operational temp. range -10°C ~ 85°C • Gold on nickel plated FR4 contact PCB • Connector: 0.1" pitch, gold plated, square pin, male

Description	Digi-Key Part No.	Price Each	Storm Part No.
4-Key Graphic Keypad and 5 Keycaps, Common Bus	MGR1547-ND	24.73	GS040203
12-Key Graphic Keypad and 13 Keycaps, Black, Matrix	MGR1548-ND	35.91	GS120203
16-Key Graphic Keypad and 17 Keycaps, Black, Matrix	MGR1549-ND	43.89	GS160203
4-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1568-ND	29.67	GSRG040203
12-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1569-ND	43.09	GSRG120203
16-Key Illuminated Graphic Keypad (Red/Green LED)	MGR1570-ND	52.67	GSRG160203
4-Key Illuminated Graphic Keypad (White LED)	MGR1571-ND	34.62	GSLW040203
12-Key Illuminated Graphic Keypad (White LED)	MGR1572-ND	53.87	GSLW120203
16-Key Illuminated Graphic Keypad (White LED)	MGR1573-ND	70.23	GSLW160203
Legend Set A, 0-9, Arithmetic Function, Arrows, 26 Tiles	MGR1550-ND	2.58	GSA0T203
Legend Set B, Computer Legend, Arrows, 26 Tiles	MGR1551-ND	2.58	GSB0T203
Legend Set C, Alphabet Legend, 26 Tiles	MGR1552-ND	2.58	GSC0T203
Legend Set D, F1-F4 Keys, Misc. Keys, 26 Tiles	MGR1553-ND	2.58	GSD0T203
Legend Set E, Blank Keys Legend, 30 Tiles	MGR1554-ND	2.58	GSE0T203
Legend Set F, 0-9, Ent., Off, +, -, #, *, 25 Tiles	MGR1555-ND	2.58	GSF0T203
Gray Colored Legends, 30 Tiles	MGR1556-ND	1.72	GS000203
Red Colored Legends, 30 Tiles	MGR1557-ND	1.72	GS000303
Green Colored Legends, 30 Tiles	MGR1558-ND	1.72	GS000403
Blue Colored Legends, 30 Tiles	MGR1559-ND	1.72	GS000503
White Colored Legends, 30 Tiles	MGR1615-ND	1.72	GS000103
Yellow Colored Legends, 30 Tiles	MGR1560-ND	1.72	GS000603
Replacement Clear Keycaps, 4 pieces	MGR1561-ND	5.16	GS000003

2200 Series Vandal Resistant Keyboards and Keyboards with Trackball

Storm 2200 Series keyboards are constructed to survive in exposed, unsupervised, public environments. A hardened stainless steel front plate and captive, high impact polymer keys ensure the keyboard's resistance to hard use and abuse. **Features:** • Tough, vandal resistant construction • Permanent laser engraved keytop characters •Sealed against water and dust to IP65 • Integral PS2/ USB interface electronics (switchable) • Foot Mounting kit available for desktop applications

Fig. 1

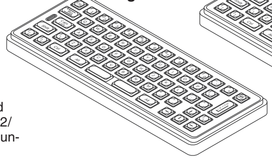

Fig. 2

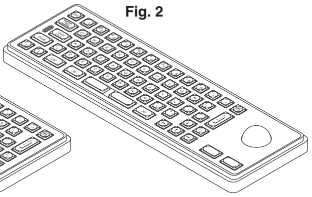

Fig.	Description	Digi-Key Part No.	Price Each	Storm Part No.
1	Vandal Resistant Keyboard, 61Key....................................	MGR1609-ND	309.08	2210-220023
1	Vandal Resistant Keyboard, 75Key including F-Keys.................	MGR1613-ND	329.72	2220-220023
1	Vandal Resistant Keyboard, 93Key including number pad............	MGR1614-ND	371.00	2230-220023
2	Vandal Resistant Keyboard, 63Key with Poly TB......................	MGR1610-ND	453.56	2210-220223
2	Vandal Resistant Keyboard, 63Key with Metal TB	MGR1611-ND	515.48	2210-320323
—	Foot Mounting Kit for 2200 Series	MGR1617-ND ***NEW!***	19.90	2200-FK0003

2200 Series Stand-Alone Trackballs

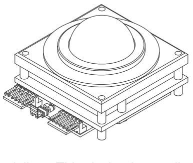

This 38mm, panel mount, trackball provides smooth, accurate and responsive cursor control in wet, dirty or aggressive environments. Sealed against the ingress of fluids and dust, the device automatically configures to provide either PS2 or USB connectivity. The robust chassis is designed to provide secure under-panel fixing for maximum resistance to hard use, abuse and vandalism. This device is supplied complete with comprehensive fixing, connection and configuration instructions.

Description	Digi-Key Part No.	Price Each	Storm Part No.
Robust Trackball Phenolic Ball..........	MGR1607-ND	113.23	2200-000203
Vandal Resistant Trackball Steel Ball...	MGR1608-ND	151.39	2200-000303
Accessories for 2200 Series Keyboards and Trackballs			
PS/2 Keyboard Cable; 2.5 Meters	MGR1603-ND	11.92	1200-001003
USB Keyboard Cable; 2.5 Meters.......	MGR1604-ND	11.92	1200-002003
PS/2 Trackball Cable; 2.5 Meters.......	MGR1605-ND	11.92	2200-002003
USB Trackball Cable; 2.5 Meters	MGR1606-ND	11.92	2200-003003

CHERRY Computer Keyboards

Fig. 1

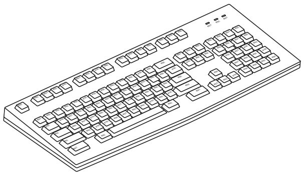

G83-6104: Economical, Windows compatible, 104-key laser printed caps with auto-repeat and full travel keyswitches.

Fig. 2

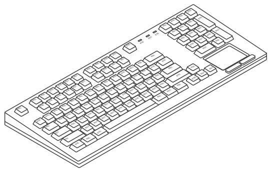

G80-11900: Compact 104-key IBM compatible keyboard with integrated, 2 button touchpad. Perfect for space critical applications.

Fig. 3

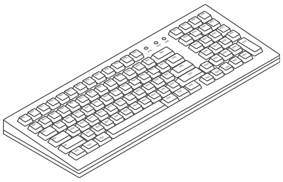

G81-1800: Compact, 104 key, Windows compatible, data entry keyboard, featuring full travel, sealed contact and membrane, AT or PS/2 interface.

Fig. 4

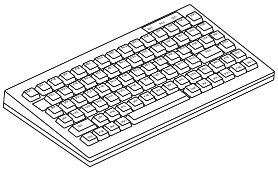

G84-4100: Notebook size for applications with space limitations or mobile systems. Windows compatible.

Fig. 5

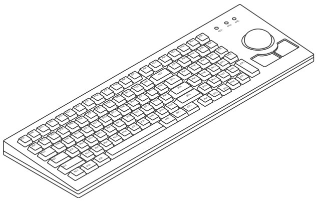

G84-4400: Notebook size with two functions in a single device. Ultra-low profile and an integrated, high quality, PS/2 compatible 16mm trackball, makes this keyboard ideal for applications where space is limited.

Fig.	Description	Digi-Key Part No.	Price Each	Cherry Part No.
	Full Size - 104 Key Computer Keyboards			
1	Full Size, Microsoft Windows™, Laser-Printed Keycaps, PS/2 Interface, Light Grey in Color	CH738-ND	25.50	G83-6104LPNUS-0
2	Space Saving Size, IBM Compatible with Touch Pad, PS/2 Interface, for PC Systems, AT and Serial Adapters Included, Black in Color	CH718-ND	192.10	G80-11900HVMUS
	Space Saving Size, IBM Compatible with Touch Pad, PS/2 Interface, for PC Systems, AT and Serial Adapters Included, Beige in Color	CH720-ND	175.10	G80-11900LTMUS
3	Space Saving, Microsoft Windows™, PS/2 Interface, Linear Feel with Laser-Printed Keycaps, Light Grey in Color	CH731-ND	68.00	G81-1800LPMUS-0
	Notebook Style 83 - Key Computer Keyboards			
4	PS/2 Interface, Tampo-Printed Caps, Beige in Color	CH217-ND	68.00	G84-4100PPAUS
	USB Interface, Tampo-Printed Caps, Light Grey in Color	CH742-ND	76.50	G84-4100PCAUS-0
	PS/2 Interface, Tampo-Printed Caps, Black in Color	CH746-ND	78.20	G84-4100PRAUS
	USB Interface, Tampo-Printed Caps, Black in Color	CH747-ND	86.70	G84-4100PTAUS
5	With Integrated Trackball, PS/2 Interface, Tampo-Printed Caps, Black in Color	CH750-ND	178.50	G84-4400PRBUS
	With Integrated Trackball, USB Interface, Tampo-Printed Caps, Black in Color	CH751-ND	178.50	G84-4400PTBUS
	With Integrated Trackball, USB Interface, Tampo-Printed Caps, Beige in Color	CH752-ND	168.30	G84-4400PUBUS

CHERRY MX Key Switches

Main Advantages: • The MX is a modern full-travel low-profile keyswitch • The keyswitch module is designed to meet all current ergonomic standards demanded for word and data processing applications • Gold wire crossbar contacts ensure long life expectancy • High reliability also during quick actuation • All switches are momentary N/O type

Specifications: • Maximum Voltage 12 • Maximum Current 10mA • Contact Resistance 200mΩ • Capacity at 1MHz <1pf • Bouncing Time at 0.4 ≤5ms

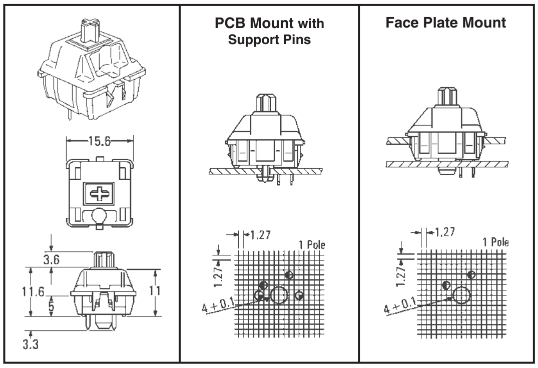

PCB Mount with Support Pins

Face Plate Mount

Description	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
PCB Mount					
Linear Feel	CH160-ND	.86	.77	.64	MX1A-11NW
Click Tactile Feel	CH197-ND	.95	.84	.70	MX1A-EINW
PCB Mount Soft Tactile Feel	CH310-ND	.70	.63	.52	MX1A-C1NW
PCB Mount with Diode	CH311-ND	2.16	1.92	1.60	MX1A-11DW
Face Plate Mount					
Linear Feel	CH162-ND	.86	.77	.64	MX1A-11NN
Click Tactile Feel	CH196-ND	.86	.77	.64	MX1A-EINN
Soft Tactile Feel	CH198-ND	1.16	1.04	.86	MX1A-CINN
Trans. Cover - use w/CH696-ND	CH695-ND	.84	.75	.62	6287379
Keycap - use with MX Series Switch, Beige	CH696-ND	.84	.75	.62	6287750

Storm Interface Environmentally Sealed Keypads

700 Series Sealed Keypads

The 700 Series of sealed keypads intended are for use individually or as modular building blocks to create more complex key-panel layouts. Unlike other sealed keypads, the 700 series have excellent tactile characteristics providing fast and reliable data input. When a keytop is depressed a conductive rubber pill makes contact with a gold on nickel plated PCB. These contact materials provide the highest level of protection against corrosive atmospheres and contact oxidization. Each keypad has interchangeable keytop legend tiles. Keypads come in two colors, gray or black, and feature a matrix style output. Instructions and pinouts are included. Compatible with Storm Universal Encoder part number "MGR1602-ND".

Fig. 1

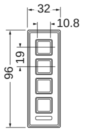

Fig. 2

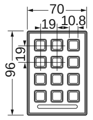

Fig. 3

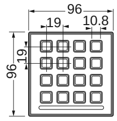

Fig. 4

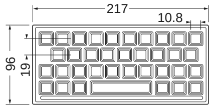

Fig.	Description	Digi-Key Part No.	Price Each
1	4 Key Keypad with Legend Set A, Gray	MGR1101-ND	26.01
	4 Key Keypad with Legend Set A, Black	MGR1111-ND	26.01
2	12 Key Keypad with Legend Set A, Gray	MGR1102-ND	34.68
	12 Key Keypad with Legend Set A, Black	MGR1112-ND	34.68
3	16 Key Keypad with Legend Set A, Gray	MGR1103-ND	44.96
	16 Key Keypad with Legend Set A, Black	MGR1113-ND	44.96
4	36 Key Keypad with Legend Set B & C, Gray	MGR1104-ND	77.16
	36 Key Keypad with Legend Set B & C, Black	MGR1114-ND	77.16
—	Legend Set A 0-9, Arith. Function, Arrows	MGR1201-ND	4.30
	Legend Set B Computer Legend, Arrows	MGR1202-ND	4.30
	Legend Set C Alphabet Legend	MGR1203-ND	4.30
	Legend Set D F1-F12, Misc. Keys	MGR1204-ND	4.30
	Legend Set E Blank Legend	MGR1205-ND	4.30
	Legend Set F 0-9, Ent, Off, +, -, #, *	MGR1206-ND	4.30
	Under Panel Mount Clip (2 pcs.)	MGR1401-ND	3.87

CHERRY Thumbwheel Switches

Fig.	Output Code	Positions	Read-Out	Features	Digi-Key Part No.	Price Each 1	10	50	100	Cherry Part No.
PA Pushwheel										
1A	BCD	10	0 - 9	Extended Buttons	CH178-ND	16.15	14.36	11.96	9.87	PACA-3000
	BCD Compl.	10	0 - 9	Extended Buttons	CH179-ND	24.92	22.16	18.46	15.23	PAEA-3000
	BCD	10	0 - 9	Ext. Board for Diodes	CH180-ND	19.68	17.50	14.58	12.03	PACA-4000
	Decimal	10	0 - 9	Extended Buttons	CH682-ND	22.49	20.00	18.74	15.83	PAAA-3000
	Octal	8	0 - 7	Extended Buttons	CH683-ND	18.77	16.68	13.90	11.47	PABA-3000
	Octal	8	0 - 7	Flush Buttons	CH684-ND	20.20	17.96	14.96	12.35	PABA-3114
	BCD	10	0 - 9	Extended Buttons	CH685-ND	17.50	15.56	12.96	10.70	PACA-3100
	BCD	10	0 - 9	Flush Buttons	CH686-ND	17.50	15.56	12.96	10.70	PACA-3114
	Hexadecimal	16	0 - 15	Extended Buttons	CH687-ND	13.99	12.44	10.36	8.55	PAGA-3100
	Hexadecimal	16	0 - 15	Flush Buttons	CH688-ND	13.99	12.44	10.36	8.55	PAGA-3114
	Hexadecimal	16	0 - 15	Flush Buttons	CH689-ND	15.61	13.88	11.56	9.54	PAGE-3114
	Hexadecimal	16	0 - 15	Flush Buttons	CH690-ND	15.61	13.88	11.56	9.54	PAGN-3114
Right End Caps for PA Switches					CH188-ND	.68	.60	.50	.44	0609-0799
Left End Caps for PA Switches					CH189-ND	.68	.60	.50	.44	0609-0801
Housing .300” (7.62mm) PA Blank Black Matte					CH678-ND	1.03	.92	.86	.73	0609-0797
Spacer .100” (2.54mm) PA Blank Black Matte					CH679-ND	1.03	.92	.86	.73	0609-0803
PB Pushwheel — “Dustproof” Front Mount										
1B	BCD	10	0-9	—	CH185-ND	9.23	8.21	6.84	—	PBC1-E015
Right End Caps for PB Switches					CH194-ND	.68	.60	.50	.44	0609-1347
Left End Caps for PB Switches					CH195-ND	.68	.60	.50	.44	0609-1346
Spacer .100” (2.54mm) for PB Series Black					CH680-ND	1.03	.92	.86	.73	0609-1348
PE Pushwheel										
1C	Decimal	10	0-9	Extended Buttons	CH239-ND	18.66	16.59	13.82	11.41	PEAA-3000
	BCD	10	0-9	Extended Buttons	CH181-ND	18.20	16.18	13.48	11.13	PECA-3000
	Hex	16	0-15	Extended Buttons	CH240-ND	25.08	22.30	18.58	15.33	PEGA-3000
	Hex	16	0-9, A-F	Extended Buttons	CH281-ND	24.76	22.01	18.34	15.14	PEHA-3000
	BCD	10	0-9	Ext. Board for Diodes	CH183-ND	23.06	20.50	17.08	14.10	PECA-4000
Right End Caps for PE Switches					CH190-ND	.68	.60	.50	.44	0609-0756
Left End Caps for PE Switches					CH191-ND	.68	.60	.50	.44	0609-0754
Spacer .300” (7.62mm) PE Blank Black Matte					CH677-ND	1.03	.92	.86	.73	0609-0752
T57 Pushwheel — Back Mount										
2	Decimal	10	0-9	Not for new designs	CH242-ND	14.50	12.89	10.74	9.40	0T57-01M0
L20 Leverwheel										
3	Decimal	10	0-9	Not recommended	CH233-ND	16.28	14.48	12.06	10.56	0L20-01A0
	Decimal	10	0-9	for new designs	CH234-ND	16.82	14.96	12.46	10.91	0L20-01M0

NOTE: PAGA: QC terminal **PAGE:** Right angle header **PAGN:** Locking right angle header.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Cherry Part No.
Connectors						
4	Connector for PA Series BCD/HEX, PC Mount Terminal	CH271-ND	3.94	3.51	2.78	C2KO-P107
	Connector for PE Series BCD/HEX, PC Mount Terminal	CH274-ND	4.21	3.75	2.97	C2RO-P111
	Connector for PE Series BCD/HEX Solder Eyelet Terminal.	CH681-ND	4.21	3.75	2.97	C2RFN116

Fig. 1 – PA, PB and PE Series

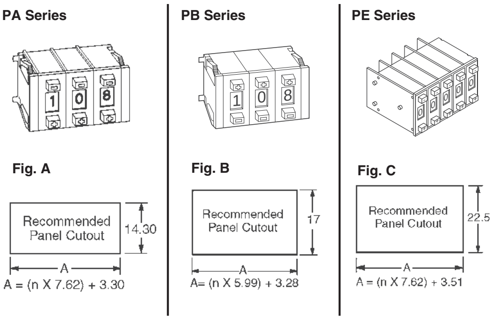

Each digit is a separate module. Combine each module to make a final unit, as shown above.

Fig. 2 – T57

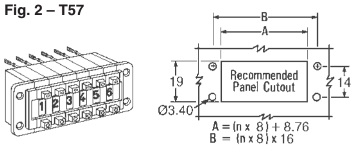

Each digit is a separate module. Combine each module to make a final unit, as shown above.

Fig. 3 – L20 (Right and Left End Caps)

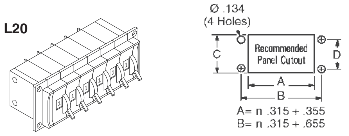

Each digit is a separate module. Combine each module to make a final unit, as shown above.

Model	A	B	C	D
L20	(n x 12.70) = 10.29	(n x 12.70) + 15.11	24.89	22.86

Fig. 4 – Connectors

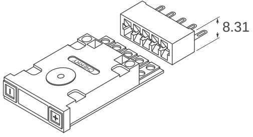

OMRON Thumbwheel Switches

Fig. 1

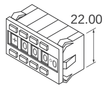

Fig. 2

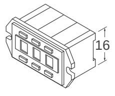

Fig. 3

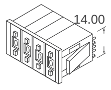

Each digit is a separate module. Combine each module to make a final unit, as shown above.

A7B Series:

Features: • Dustproof construction ensures highly reliable performance at low voltage and very small current even under adverse environmental conditions • Switch units can be assembled simply by fitting the integral hook coupler of each unit into the mating unit, thus eliminating the need of nuts and bolts for assembly • Switch assembly can be mounted easily by merely pushing the assembly into the mounting panel cutout from front

A7CN Series:

Features: • Designed specially for printed circuit boards • The transparent window plate fitted in the readout section prevents the ingress of dust and also protects dial characters against wear by incorrect handling • Switch units can be assembled simply by fitting the integral hook coupler of each unit, into the mating unit, thus eliminating the need of nuts and bolts for assembly

A7D Series:

Features: • Cost effectiveness and improved reliability achieved through insert-molding and fewer component parts • Plastic spring with minimal fatigue and a mechanical service life of 30,000

Fig.	Output	No. of Positions	Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	BCD	0-9	Black Gloss	SW266-ND	8.48	7.63	6.78	A7BS-206-1
	BCD	0-9		SW267-ND	8.48	7.63	6.78	A7BS-206-S-1
	BCD with Ext. Brd.	0-9		SW268-ND	9.13	8.22	7.30	A7BS-207-1
	+, - Display Only	+, -		SW269-ND	10.93	9.84	8.74	A7BS-207-PM-1
—	Connector for A7BS Series, Solder Terminal with Mount Ears			SW270-ND	4.98	4.48	3.98	A7B-C
	End Caps for A7BS Series, Left/Right 2 Pcs.			SW271-ND	1.38	1.24	1.10	A7B-M-1
	Spacer for A7BS Series, Black No Marking			SW272-ND	.75	.68	.60	A7B-PA-1
2	BCD (Back Mount)	0-9	Black Gloss	SW273-ND	6.78	6.10	5.42	A7CN-106-1
	BCD (Front Mount)			SW274-ND	6.78	6.10	5.42	A7CN-206-1
—	End Caps for A7CN Series, Back Mount Only			SW275-ND	.83	.75	.66	A7CN-1M-1
	Spacer for A7CN Series, Back Mount Only, Black			SW276-ND	.65	.59	.52	A7CN-1PA-1
	End Caps for A7CN Series, Front Mount Only			SW277-ND	.83	.75	.66	A7CN-2M-1
	Spacer for A7CN Series, Front Mount Only, Black			SW278-ND	.65	.59	.52	A7CN-2PA-1
3	BCD (Back Mount)	0-9	Black Gloss	SW279-ND	5.23	4.71	4.18	A7D-106-1
	BCD (Front Mount)		Black Gloss	SW280-ND	5.23	4.71	4.18	A7D-206-1
	BCD (Back Mount)		Light Gray	SW504-ND	5.23	4.71	4.18	A7D-106
	BCD (Front Mount)		Light Gray	SW505-ND	5.23	4.71	4.18	A7D-206
—	End Caps for A7D Series, Back Mount Only, Black			SW281-ND	.83	.75	.66	A7D-1M-1
	End Caps for A7D Series, Front Mount Only, Black			SW282-ND	.75	.68	.60	A7D-2M-1
	Spacer for A7D Series, Back Mount Only, Black			SW283-ND	.83	.75	.66	A7D-1PA-1
	Spacer for A7D Series, Front Mount Only, Black			SW284-ND	.83	.75	.66	A7D-2PA-1
	End Caps for A7D Series, Back Mount Only, Light Gray			SW506-ND	.83	.75	.66	A7D-1M
	End Caps for A7D Series, Front Mount Only, Light Gray			SW508-ND	.78	.70	.62	A7D-2M
	Spacer for A7D Series, Back Mount Only, Light Gray			SW507-ND	.83	.75	.66	A7D-1PA
	Spacer for A7D Series, Front Mount Only, Light Gray			SW509-ND	.83	.75	.66	A7D-2PA

Right Angle Toggle Switches

Fig. 1

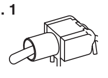

Right Angle

Fig. 2

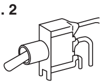

Vertical Right Angle

Actuator Options

K

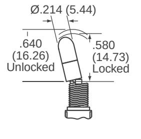

K2 Locking Lever

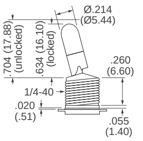

L

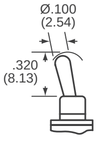

M

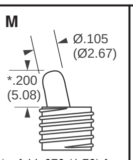

* Add .070 (1.78) for D9 bushings.

P3 Antirotation
P4 = .250” High

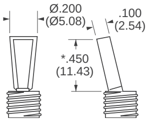

* Add .070 (1.78) for D, D9 bushings.

S

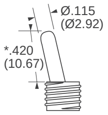

* Add .070 (1.78) for D9 bushings.
* Subtract .020 (.51) for H3 bushings.

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			ITT Industries Part No.
		Actuator	Bushing	Termination				1	25	100	
Fig. 1 — Right Angle											
SPDT	On-On	S	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1049-ND	6.06	4.85	3.84	7101SD9ABE
	On-Off-On	S	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1051-ND	6.61	5.29	4.19	7103SD9ABE
	On-On	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1045-ND	6.06	4.85	3.84	7101MD9ABE
	On-On	M	D9	A	G	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1046-ND	6.45	5.17	4.09	7101MD9AGE
	On-On	M	D9	A	Q	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1047-ND	6.06	4.85	3.84	7101MD9AQE
	On-Off-On	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1050-ND	6.61	5.29	4.19	7103MD9ABE
	Mom-Off-Mom	M	D9	A	B	.365 x .500 x .284 (9.27 x 12.70 x 7.21)	CKN1172-ND	6.73	5.39	4.26	7105MD9ABE
	On-Off-Mom	M	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1053-ND	6.73	5.39	4.26	7107MD9ABE
	On-On	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1067-ND	6.15	4.92	3.90	T101MH9ABE
	On-Off-On	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1068-ND	7.27	5.82	4.61	T103MH9ABE
	Mom-Off-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1386-ND	7.27	5.82	4.61	T105MH9ABE
	On-Off-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1387-ND	7.52	6.02	4.76	T107MH9ABE
	On-Mom	M	H9	A	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1388-ND	7.52	6.02	4.76	T108MH9ABE
	On-On	P3	D9	A	B	.500 x .500 x .270 (12.70 x 12.70 x 6.86)	CKN1048-ND	8.03	6.43	5.09	7101P3D9ABE
	On-On	S	Y	A	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1456-ND	6.06	4.85	3.84	7101SYABE
	On-On	S	Y	A	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1457-ND	6.06	4.85	3.84	7101SYAQE
	On-Mom	M	D9	A	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1472-ND	6.73	5.39	4.26	7108MD9ABE
	On-On	M	D1	A	G	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1511-ND	6.55	5.24	4.15	E101MD1AGE
	On-On	M	D1	A	Q	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1512-ND	6.15	4.92	3.90	E101MD1AQE
	On-Off-On	M	D1	A	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1520-ND	7.27	5.82	4.61	E103MD1ABE
	On-On	M	D1	A	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1528-ND	7.12	5.70	4.52	ET01MD1AGE
	On-On	S	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1531-ND	6.70	5.36	4.25	ET01SD1ABE
	On-Off-On	L	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1532-ND	7.49	5.99	4.75	ET03LD1ABE
	Mom-Off-Mom	M	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1534-ND	7.49	5.99	4.75	ET05MD1ABE
	Mom-Off-Mom	S	D1	A	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1535-ND	7.49	5.99	4.75	ET05SD1ABE
	On-On	K	—	A	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1545-ND	12.18	9.75	7.72	T101KABE
	On-On	M	H	A	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1548-ND	6.15	4.92	3.90	T101MHABE
DPDT	On-On	M	D9	A	B	.500 x .500 x .450 (12.70 x 12.70 x 11.43)	CKN1055-ND	9.18	7.35	5.82	7201MD9ABE
	On-On	M	D9	A	Q	.500 x .500 x .450 (12.70 x 12.70 x 11.43)	CKN1056-ND	9.18	7.35	5.82	7201MD9AQE
	On-On	M	H9	A	B	.320 x .360 x .352 (8.13 x 9.14 x 8.94)	CKN1069-ND	9.64	7.71	6.11	T201MH9ABE
	On-On	S	Y	A	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1480-ND	9.18	7.35	5.82	7201SYAQE
	On-Off-On	M	D9	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1484-ND	10.12	8.10	6.41	7203MD9ABE
	On-Off-Mom	M	D9	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1489-ND	10.36	8.29	6.57	7207MD9ABE
	On-On-On	M	D9	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1491-ND	10.82	8.66	6.86	7211MD9ABE
	On-On	M	D1	A	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1521-ND	9.64	7.71	6.11	E201MD1ABE
	On-On	M	H9	A	G	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1555-ND	11.09	8.88	7.03	T201MH9AGE
	On-Mom	S	H9	A	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1558-ND	11.15	8.93	7.07	T208SH9ABE
3PDT	On-On	M	D9	A	B	.500 x .500 x .500 (12.70 x 12.70 x 12.70)	CKN1383-ND	15.36	12.30	9.73	7301MD9ABE
	On-On	M	D1	A	G	.500 x .642 x .424 (12.70 x 16.31 x 10.77)	CKN1525-ND	11.89	10.27	8.65	E301MD1AGE
Fig. 2 — Vertical Right Angle											
SPDT	On-On	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1059-ND	6.39	5.12	4.05	7101MD9AV2BE
	On-Off-On	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1173-ND	6.94	5.56	4.40	7103MD9AV2BE
	On-Off-Mom	M	D9	AV2	B	.500 x .270 x .500 (12.70 x 6.86 x 12.70)	CKN1174-ND	7.06	5.65	4.48	7107MD9AV2BE
	On-On	M	H9	AV	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN1070-ND	6.48	5.19	4.11	T101MH9AVBE
	On-On	K2	—	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1440-ND	10.18	8.15	6.45	7101K2AV2BE
	On-On	K2	—	AV2	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1441-ND	10.18	8.15	6.45	7101K2AV2QE
	On-On	M	D9	AV2	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1443-ND	7.39	5.92	4.69	7101MD9AV2QE
	On-On	P4	D9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1446-ND	8.36	6.70	5.30	7101P4D9AV2BE
	On-On	S	D9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1447-ND	6.39	5.12	4.05	7101SD9AV2BE
	On-On	S	D	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1450-ND	6.39	5.12	4.05	7101SDAV2BE
	On-On	S	H	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1452-ND	7.52	6.02	4.76	7101SHAV2BE
	On-On	S	Y9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1454-ND	6.39	5.12	4.05	7101SY9AV2BE
	On-On	S	Y	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1458-ND	6.39	5.12	4.05	7101SYAV2BE
	Mom-Off-Mom	M	D9	AV2	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1464-ND	7.06	5.65	4.48	7105MD9AV2BE
	On-On	M	D1	AV2	G	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1513-ND	7.18	5.75	4.55	E101MD1AV2GE
	On-On	M	D1	AV2	Q	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1514-ND	6.79	5.43	4.30	E101MD1AV2QE
	On-On	S	D1	AV2	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1517-ND	6.79	5.43	4.30	E101SD1AV2BE
	On-On	M	D1	AV	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1529-ND	7.67	6.14	4.86	ET01MD1AVGE
	On-Off-On	M	D1	AV	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1533-ND	8.03	6.43	5.09	ET03MD1AVBE
	Mom-Off-Mom	S	D1	V3	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1537-ND	7.49	5.99	4.75	ET05SD1V3BE
	On-On	M	H9	V3	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1547-ND	6.09	4.88	3.86	T101MH9V3BE
	On-Off-On	M	H9	AV	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1550-ND	7.61	6.09	4.82	T103MH9AVBE
	On-Off-On	M	H9	V3	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1551-ND	7.21	5.77	4.57	T103MH9V3BE
DPDT	On-On	M	D9	AV2	B	.500 x .650 x .565 (12.70 x 16.51 x 14.35)	CKN1384-ND	9.82	7.86	6.22	7201MD9AV2BE
	On-On	M	D9	AV2	Q	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1476-ND	9.82	7.86	6.22	7201MD9AV2QE
	On-On	S	D9	AV2	B	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1479-ND	9.82	7.86	6.22	7201SD9AV2BE
	Mom-Off-Mom	S	D9	AV2	B	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1486-ND	10.76	8.61	6.82	7205MD9AV2BE
	On-Off-Mom	M	D9	AV2	B	.500 x .450 x .350 (12.70 x 11.46 x 8.89)	CKN1490-ND	8.07	6.97	5.87	7207MD9AV2BE
	On-On	M	H9	AV	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1556-ND	10.12	8.10	6.41	T201MH9AVBE
	On-On	M	H9	V3	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1557-ND	9.64	7.71	6.11	T201MH9V3BE
4PDT	On-On	M	D9	AV2	B	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1500-ND	16.00	13.82	11.64	7401MD9AV2BE
Optional Hardware and Accessories											
Dress Nut 10-48, .070” (1.78mm) high, for Series T and TP; nickel plated							CKN1183-ND	.65	.53	.42	465701201
Dress Nut 1/4 x 40, .325” (8.26mm) high, for Series 7000, 8020, 8060, 8500, E, E010 and TP; nickel plated							CKN1184-ND	.47	.38	.30	702501201
Dress Nut 1/4 x 40, .118” (3.00mm) high, for Series 7000, 8020, 8060, 8500, E, E010 and TP							CKN1201-ND	.31	.25	.20	780701201
Dress Nut 1/4 x 40, .118” (3.00mm) high, for Series 7000, 8020, 8060, 8500, 9000, E, E010, T and TP; black plated							CKN1818-ND	.75	.60	.48	780701A30
Dress Nut 1/4 x 40, .118” (3.00mm) high, for Series 7000, 8020, 8060, 8500, 9000, E, E010, T and TP; satin chrome plated							CKN1393-ND	1.09	.88	.70	780701215
Dress Nut 1/4 x 40, .118” (3.00mm) high, for Series 7000, 8020, 8060, 8500, 9000, E, E010, T and TP; nickel plated							CKN1754-ND	.38	.30	.24	709901201
Dress Nut 1/4 x 40, .090” (2.29mm) high, for Series 7000, 8020, 8060, 8500, 9000, E, E010, T and TP; nickel plated							CKN1392-ND	.44	.36	.28	776001201
Dress Nut 15/32-32, .120” (3.05mm) high, for Series 7000 and 8500; nickel plated							CKN1202-ND	1.25	1.00	.80	895101201
Knurled Nut 1/4x40, .080” (2.03mm) high, for Series 7000, 8020, 8060, 8500, 9000, T and TP; nickel plated							CKN1755-ND	.44	.36	.28	778000201
Knurled Nut 1/4x40, .062” (1.57mm) high, for Series 7000, 8020, 8060, 8500, 9000, T and TP; nickel plated							CKN1756-ND	.34	.28	.22	796901201
Lockwasher 1/4x40, .402” (10.21mm) diameter; nickel plated							CKN1753-ND	.28	.23	.18	700303202
Hex Nut 1/4 x 40, for Series 7000, 8020, 8060, 8500 and T; nickel plated							CKN1185-ND	.28	.23	.18	700201201
Locking Ring 1/4 x 40, .468” (11.89mm) diameter, for Series 7000, 8020 8060 8500 9000, M,T and TP; nickel plated							CKN1817-ND	.28	.23	.18	700701201
Vinyl Toggle Cap, White, .383” (9.73mm) long, for color coding option “S” actuators, Series 7000							CKN1203-ND	.81	.65	.52	896801000
Vinyl Toggle Cap, Black, .383” (9.73mm) long, for color coding option “S” actuators, Series 7000							CKN1204-ND	.81	.65	.52	896802000
Vinyl Toggle Cap, Red, .383” (9.73mm) long, for color coding option “S” actuators, Series 7000							CKN1205-ND	.81	.65	.52	896803000

Contact Material Options

B Contacts and Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4VA maximum @ 20VAC or DC maximum

Q End Contacts: Coin silver, silver plated. Center Contact and All Terminals: Copper alloy, silver plated. Rating: 7000 Series: 5A @ 120VAC or 2A @ 250VAC; E-Series: 7.5A @ 125VAC or 3A @ 250VAC; T-Series: 3A @ 120VAC.

G End Contacts: Coin silver, with gold plate over nickel plate. Center Contact and All Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4VA maximum @ 20VAC or DC maximum or 5 amps @ 120VAC or 28VDC; 2 amps @ 250VAC.

Bushing Options

D9 (Unthreaded)
D (Threaded)

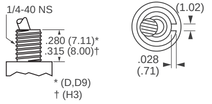

D1

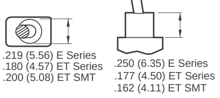

H **(10-48 UNS)**
H9 (Unthreaded)

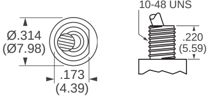

Y, Y9 Unthreaded

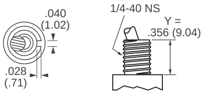

Termination Options

A

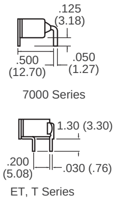

AV

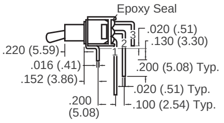

AV2

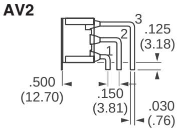

V3

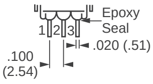

*** ET Series Only**

Toggle Switches

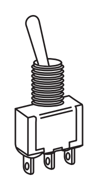

Contact Material Options

B Contacts and Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA maximum @ 20VAC or DC maximum

Q End Contacts: Coin silver, silver plated. Center Contact & All Terminals: Copper alloy, silver plated. Rating: 7000 Series: 5A @ 120VAC or 2A @ 250VAC; E-Series: 7.5A @ 125VAC or 3A @ 250VAC; T-Series: 3A @ 120VAC.

G End Contacts: Coin silver, with gold plate over nickel plate. Center Contact & All Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA maximum @ 20VAC or DC maximum or 5 amps @ 120VAC or 28VDC; 2 amps @ 250VAC.

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			ITT Industries Part No.
		Actuator	Bushing	Termination				1	25	100	
						Vertical					
SPST	On-Off	S	H	Z	Q	.320 X .200 X .350 (8.13 x 5.08 x 8.89)	CKN1549-ND	6.85	5.48	4.34	T102SHZQE
SPDT	On-On	S	D9	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1002-ND	5.48	4.39	3.48	7101SD9CQE
	On-On	S	Y	C	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1003-ND	5.48	4.39	3.48	7101SYCBE
	On-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1004-ND	5.48	4.39	3.48	7101SYCQE
	On-On	S	H3	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1020-ND	7.09	5.68	4.49	7101SH3ZQE
	On-On	S	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1021-ND	5.33	4.27	3.38	7101SYZBE
	On-On	S	Y	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1022-ND	5.73	4.59	3.63	7101SYZGE
	On-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1023-ND	5.33	4.27	3.38	7101SYZQE
	On-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1014-ND†	5.48	4.39	3.48	U11SYCQE
	On-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1040-ND†	5.33	4.27	3.38	U11SYZQE
	On-Off-On	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1005-ND	6.03	4.83	3.82	7103SYCQE
	On-Off-On	S	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1025-ND	5.88	4.71	3.73	7103SYZBE
	On-Off-On	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1026-ND	5.88	4.71	3.73	7103SYZQE
	On-Off-Mom	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1008-ND	6.15	4.92	3.90	7107SYCQE
	On-Off-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1028-ND	6.00	4.80	3.80	7107SYZQE
	Mom-Off-Mom	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1007-ND	6.15	4.92	3.90	7105SYCQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1027-ND	6.00	4.80	3.80	7105SYZQE
	On-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1029-ND	6.00	4.80	3.80	7108SYZQE
	On-On	S	Y	W6	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1213-ND	6.79	5.43	4.30	7101SYW6BE
	On-On	S	Y	W	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1379-ND	5.82	4.66	3.69	7101SYWBE
	On-On	S	Y	W	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1381-ND	5.82	4.66	3.69	7101SYWQE
	On-On	S	H	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1091-ND	5.54	4.44	3.52	T101SHCQE
	On-On	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1066-ND	5.73	4.59	3.63	T101SHZQE
	On-Off-On	S	H	C	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1092-ND	6.67	5.34	4.23	T103SHCQE
	On-Off-On	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1087-ND	6.85	5.48	4.34	T103SHZQE
	On-Off-Mom	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1181-ND	7.09	5.68	4.49	T107SHZQE
	Mom-Off-Mom	S	H	Z	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1088-ND	6.85	5.48	4.34	T105SHZQE
	On-On	M	D	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1000-ND	5.48	4.39	3.48	7101MDCQE
	On-On	M	D	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1016-ND	5.33	4.27	3.38	7101MDZQE
	On-On	M	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1017-ND	5.33	4.27	3.38	7101MYZQE
	On-On	M	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1042-ND	6.67	5.34	4.23	7101MD9V3BE
	On-On	M	D9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1175-ND	6.67	5.34	4.23	7101MD9V3QE
	On-Off-On	M	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1169-ND	7.21	5.77	4.57	7103MD9V3BE
	On-Off-On	M	D9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1176-ND	7.21	5.77	4.57	7103MD9V3QE
	On-On	S	D9	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1043-ND	6.67	5.34	4.23	7101SD9V3BE
	On-On	P3	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1001-ND	7.46	5.97	4.73	7101P3YCQE
	On-On	P3	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1018-ND	7.30	5.85	4.63	7101P3YZBE
	On-On	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1019-ND	7.30	5.85	4.63	7101P3YZQE
	On-Off-On	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1024-ND	7.85	6.28	4.98	7103P3YZQE
	On-Off-Mom	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1142-ND	7.97	6.38	5.05	7107P3YZQE
	On-Mom	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1143-ND	7.97	6.38	5.05	7108P3YZQE
	Mom-Off-Mom	P3	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1006-ND	8.12	6.50	5.15	7105P3YCQE
	On-On	K2	—	C	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1215-ND	9.27	7.42	5.88	7101K2CBE
	On-On	K2	—	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1216-ND	9.27	7.42	5.88	7101K2CQE
	On-On	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1125-ND	9.12	7.30	5.78	7101K2ZQE
	On-On	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1126-ND†	9.12	7.30	5.78	U11K2ZQE
	On-Off-On	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1151-ND	9.67	7.74	6.13	7103K2ZQE
	Mom-Off-Mom	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1152-ND	9.79	7.83	6.20	7105K2ZQE
	On-On	L1	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1147-ND	5.33	4.27	3.38	7101L1YZQE
	On-Off-On	L1	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1148-ND	5.88	4.71	3.73	7103L1YZQE
	On-On	L41(Blk.)	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1220-ND	7.61	6.09	4.82	7101L41YZQE2
	On-On	L41(Red)	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1221-ND	7.61	6.09	4.82	7101L41YZQE3
	On-On	K12	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1212-ND	9.12	7.30	5.78	7101K12ZQE
	On-Off-On	K12	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1155-ND	9.67	7.74	6.13	7103K12ZQE
	Mom-Off-Mom	K12	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1156-ND	9.79	7.83	6.20	7105K12ZQE
	On-On	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1164-ND	8.27	6.62	5.24	7101TZQE
	On-Off-On	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1165-ND	8.82	7.06	5.59	7103TZQE
	On-On	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1159-ND	6.91	5.53	4.38	7101SCWZQE
	On-Off-On	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1160-ND	7.46	5.97	4.73	7103SCWZQE
	Mom-Off-Mom	S	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1161-ND	7.58	6.06	4.80	7105SCWZQE
	On-On	K2	—	Z	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1442-ND	9.51	7.62	6.03	7101K2ZGE
	On-On	P3	D	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1444-ND	7.46	5.97	4.73	7101P3DCQE
	On-On	P3	H	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1445-ND	8.42	6.74	5.34	7101P3HZQE
	On-On	S	D9	V3	G	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1448-ND	7.06	5.65	4.48	7101SD9V3GE
	On-On	S	D9	V3	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1449-ND	6.67	5.34	4.23	7101SD9V3QE
	On-On	S	D	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1451-ND	5.48	4.39	3.48	7101SDCQE
	On-On	S	H	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1453-ND	6.45	5.17	4.09	7101SHZQE
	On-On	S	Y	V3	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1455-ND	6.67	5.34	4.23	7101SY9V3BE
	On-On	T1	CW	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1459-ND	10.00	8.00	6.34	7101T1CWCQE
	On-On	T	—	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1460-ND	8.42	6.74	5.34	7101TCQE
	On-On	T	CW	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1461-ND	10.00	8.00	6.34	7101TCWCQE
	On-Off-On	S	CW	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1462-ND	7.61	6.09	4.82	7103TCWCQE
	On-Off-On	T1	CW	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1463-ND	10.55	8.44	6.68	7103T1CWCQE
	Mom-Off-Mom	P3	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1465-ND	7.97	6.38	5.05	7105P3YZQE
	Mom-Off-Mom	T1	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1466-ND	8.94	7.16	5.67	7105T1ZQE
	Mom-Off-Mom	T	CW	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1467-ND	10.52	8.42	6.66	7105TCWZQE
	Mom-Off-Mom	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1468-ND	8.94	7.16	5.67	7105TZQE
	On-Off-Mom	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1469-ND	9.79	7.83	6.20	7107K2ZQE
	On-Off-Mom	S	Y	Z	B	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1470-ND	6.00	4.80	3.80	7107SYZBE
	On-Mom	K2	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1471-ND	9.79	7.83	6.20	7108K2ZQE
	On-Mom	S	Y	C	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1473-ND	6.15	4.92	3.90	7108SYCQE
	On-Mom	T	—	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1474-ND	8.94	7.16	5.67	7108TZQE

† UL Approved Note: All threaded bushings include mounting hardware.

(Continued)

Actuator Options

K Locking Lever

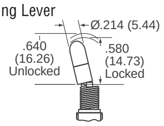

K1 Locking Lever

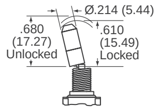

K2 Locking Lever

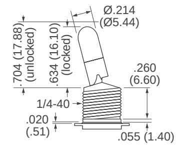

K12 Locking Lever

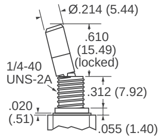

L

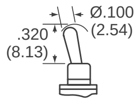

L 1

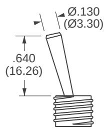

L41

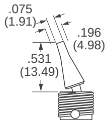

Plastic lever handle antirotation

M

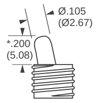

* Add .070 (1.78) for D, D9 bushings.

P3 Antirotation

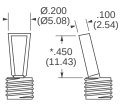

* Add .070 (1.78) for D, D9 bushings.

S

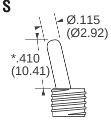

* Add .070 (1.78) for D, D9 bushings.

* Subtract .020 (.51) for H3 bushings.

T

T1 = .487” High

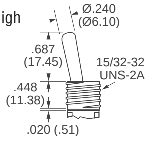

Toggle Switches *(Cont.)*

Circuit	Switching Function	Options (see diagrams)			Contact Material	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			ITT Industries Part No.
		Actuator	Bushing	Termination				1	25	100	
SPDT	On-Mom	S	Y	Z	Q	.500 x .270 x .350 (12.70 x 6.86 x 8.89)	CKN1475-ND	6.15	4.92	3.90	7109SYZQE
	On-On	M	D1	C	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1515-ND	5.57	4.46	3.54	E101MD1CBE
	On-On	M	D1	V3	B	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1516-ND	7.24	5.80	4.59	E101MD1V3BE
	On-On	S	D1	C	G	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1518-ND	5.97	4.78	3.79	E101SD1CGE
	On-On	S	Y	Z	Q	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1519-ND	5.42	4.34	3.44	E101SYZQE
	On-On	L	D1	C	B	.320 X .200 X .350 (8.13 x 5.08 x 8.89)	CKN1527-ND	6.12	4.90	3.88	ET01LD1CBE
	On-On	M	D1	C	B	.320 X .200 X .350 (8.13 x 5.08 x 8.89)	CKN1530-ND	6.12	4.90	3.88	ET01MD1CBE
	Mom-Off-Mom	S	D1	C	B	.320 X .200 X .350 (8.13 x 5.08 x 8.89)	CKN1536-ND	6.91	5.53	4.38	ET05SD1CBE
	On-On	M	H9	C	B	.320 X .200 X .350 (8.13 x 5.08 x 8.89)	CKN1546-ND	5.57	4.46	3.54	T101MH9CBE
	Mom-Off-Mom	M	H9	AV	B	.320 X .200 X .350 (8.13 x 5.08 x 8.89)	CKN1552-ND	7.61	6.09	4.82	T105MH9AVBE
	On-Mom	M	H9	AV	B	.320 X .200 X .350 (8.13 x 5.08 x 8.89)	CKN1553-ND	7.85	6.28	4.98	T108MH9AVBE
	On-Mom	S	H	Z	Q	.320 X .200 X .350 (8.13 x 5.08 x 8.89)	CKN1554-ND	7.09	5.68	4.49	T108SHZQE
DPDT	On-On	S	Y	C	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1010-ND	8.09	6.48	5.13	7201SYCBE
	On-On	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1011-ND	8.09	6.48	5.13	7201SYCQE
	On-On	S	Y	Z	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1034-ND	7.85	6.28	4.98	7201SYZBE
	On-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1035-ND	7.85	6.28	4.98	7201SYZQE
	On-On	S	Y	W	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1380-ND	8.76	7.01	5.55	7201SYWBE
	On-On	S	Y	W	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1382-ND	8.76	7.01	5.55	7201SYWQE
	On-Off-On	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1012-ND	9.03	7.23	5.72	7203SYCQE
	On-Off-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1036-ND	8.79	7.03	5.57	7203SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1129-ND	8.79	7.03	5.57	7205SYZQE
	On-Off-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1130-ND	9.03	7.23	5.72	7207SYZQE
	On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1131-ND	9.03	7.23	5.72	7208SYZQE
	On-On	S	H	Z	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1089-ND	8.97	7.18	5.69	T201SHZQE
	On-On	S	H	C	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1182-ND	8.54	6.84	5.42	T201SHCQE
	On-Off-On	S	H	Z	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1090-ND	10.15	8.13	6.43	T203SHZQE
	On-On	M	D	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1031-ND	7.85	6.28	4.98	7201MDZQE
	On-On	M	D9	V3	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1170-ND	9.51	7.62	6.03	7201MD9V3BE
	On-Off-On	M	D9	V3	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1171-ND	10.46	8.37	6.63	7203MD9V3BE
	On-On	P3	Y	Z	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1032-ND	9.82	7.86	6.22	7201P3YZBE
	On-On	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1033-ND	9.82	7.86	6.22	7201P3YZQE
	Mom-Off-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1144-ND	10.76	8.61	6.82	7205P3YZQE
	On-Off-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1145-ND	11.00	8.80	6.97	7207P3YZQE
	On-Mom	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1146-ND	11.00	8.80	6.97	7208P3YZQE
	On-On	K2	—	C	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1217-ND	11.88	9.51	7.53	7201K2CBE
	On-On	K2	—	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1127-ND	11.88	9.51	7.53	7201K2CQE
	On-On	K2	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1128-ND	11.63	9.31	7.37	7201K2ZQE
	On-Off-On	K2	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1153-ND	12.58	10.07	7.97	7203K2ZQE
	On-On	L1	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1149-ND	7.85	6.28	4.98	7201L1YZQE
	On-Off-On	L1	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1150-ND	8.79	7.03	5.57	7203L1YZQE
	On-Off-On	K12	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1157-ND	12.58	10.07	7.97	7203K12ZQE
	On-On	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1166-ND	10.79	8.64	6.84	7201TZQE
	On-Off-On	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1167-ND	11.73	9.39	7.43	7203TZQE
	On-On	S	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1162-ND	9.42	7.54	5.97	7201SCWZQE
	On-Off-On	S	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1163-ND	10.36	8.29	6.57	7203SCWZQE
	On-On-On	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1132-ND	9.48	7.59	6.01	7211SYZQE
	On-On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1133-ND	10.18	8.15	6.45	7213SYZQE
	Mom-On-Mom	S	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1134-ND	10.18	8.15	6.45	7215SYZQE
	On-On	M	D9	V4	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1477-ND	9.51	7.62	6.03	7201MD9V4BE
	On-On	P3	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1478-ND	10.06	8.05	6.38	7201P3YCQE
	On-On	S	Y	Z	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1481-ND	8.39	6.72	5.32	7201SYZGE
	On-On	T	—	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1482-ND	11.03	8.83	6.99	7201TCQE
	On-On	T	CW	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1483-ND	12.36	9.90	7.83	7201TCWZQE
	On-Off-On	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1485-ND	10.76	8.61	6.82	7203P3YZQE
	Mom-Off-Mom	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1487-ND	9.03	7.23	5.72	7205SYCQE
	Mom-Off-Mom	T	CW	Z	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1488-ND	13.85	11.08	8.78	7205TCWZGE
	On-On-On	P3	Y	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1492-ND	11.45	9.17	7.26	7211P3YZQE
	On-On-On	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1493-ND	9.73	7.79	6.16	7211SYCQE
	Mom-On-Mom	S	Y	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1494-ND	10.42	8.34	6.61	7215SYCQE
	Mom-On-Mom	T	—	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1495-ND	13.12	10.50	8.31	7215TZQE
	On-On	S	H3	Z	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1507-ND	13.29	11.48	9.67	9201SH3ZQE
	On-On	K1	—	Z4	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1508-ND	21.05	18.19	15.32	9221K1Z4QD
	On-On	K	—	Z4	Q	.750 x .750 x .660 (19.05 x 19.05 x 16.76)	CKN1509-ND	21.05	18.19	15.32	9221KZ4QD
	On-On	S	H3	Z4	Q	.750 x .750 x .660 (19.05 x 19.05 x 16.76)	CKN1510-ND	18.57	16.04	13.51	9221SH3Z4QD
	On-On	M	D1	V3	B	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1522-ND	10.58	8.46	6.70	E201MD1V3BE
	On-On	M	D1	V3	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1523-ND	10.58	8.46	6.70	E201MD1V3QE
	On-On	S	D1	C	Q	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1524-ND	8.54	6.84	5.42	E201SD1CQE
	On-On-On	S	H	Z	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1559-ND	11.33	9.07	7.18	T211SHZQE
	On-On	S	Y	Z	Q	.500 X .450 X .350 (12.70 x 11.43 x 8.89)	CKN1560-ND	7.85	6.28	4.98	U21SYZQE
3PDT	On-On	S	Y	C	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1013-ND	13.73	10.98	8.70	7301SYCQE
	On-On	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1037-ND	13.36	10.69	8.47	7301SYZQE
	On-Off-On	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1135-ND	14.12	11.30	8.95	7303SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1136-ND	17.51	14.02	11.10	7305SYZQE
	On-Off-On	K2	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1154-ND	17.91	14.33	11.35	7303K2ZQE
	On-Off-On	K12	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1158-ND	17.91	14.33	11.35	7303K12ZQE
	On-On	K2	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1496-ND	12.58	10.87	9.15	7301K2ZQE
	On-On	P3	Y	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1497-ND	11.24	9.72	8.18	7301P3YZQE
	On-On	T	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1498-ND	11.95	10.33	8.70	7301TZQE
	On-Off-On	T	—	Z	Q	.500 x .650 x .415 (12.70 x 16.51 x 10.54)	CKN1499-ND	12.51	10.81	9.10	7303TZQE
	On-On	S	D1	C	B	.500 x .642 x .424 (12.70 x 16.31 x 10.77)	CKN1526-ND	13.73	10.98	8.70	E301SD1CBE
4PDT	On-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1038-ND	13.55	11.71	9.86	7401SYZQE
	On-Off-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1137-ND	14.36	12.40	10.44	7403SYZQE
	Mom-Off-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1138-ND	15.58	13.46	11.33	7405SYZQE
	On-On	P3	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1501-ND	15.00	12.96	10.91	7401P3YZQE
	On-On	S	Y	C	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1502-ND	13.91	12.02	10.12	7401SYCQE
	On-On	T	—	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1503-ND	15.71	13.57	11.43	7401TZQE
	On-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1504-ND	15.58	13.46	11.33	7408SYZQE
	On-On-On	P3	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1505-ND	17.91	15.47	13.03	7411P3YZQE
	Mom-On-Mom	P3	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1506-ND	17.91	15.47	13.03	7415P3YZQE
	On-On-On	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1139-ND	16.46	14.22	11.98	7411SYZQE
	On-On-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1140-ND	16.46	14.22	11.98	7413SYZQE
	Mom-On-Mom	S	Y	Z	Q	.500 x .850 x .415 (12.70 x 21.59 x 10.54)	CKN1141-ND	16.46	14.22	11.98	7415SYZQE

† UL Approved   Note: All threaded bushings include mounting hardware.

Bushing Options

CW Splashproof

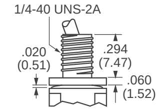

Internal actuator seal and external bushing seal washer standard.

D, H3 (Threaded)
D9 (Unthreaded)

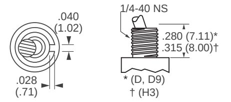

D1

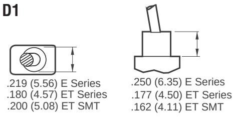

H (10-48 UNS)
H9 (Unthreaded)

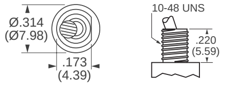

Y

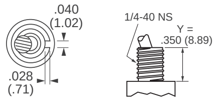

Termination Options

AV

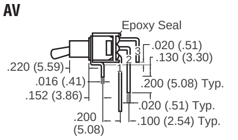

C

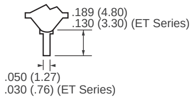

V3 (A = .460)
V4 (A = .630)

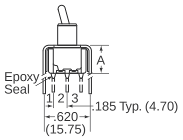

W, W6

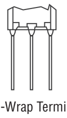

Wire-Wrap Terminal

Z

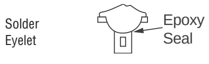

Z4

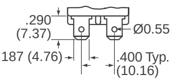

Process Sealed Toggle Switches

Withstands soldering and cleaning processes

Fig. 1

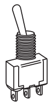

Vertical

Fig. 2

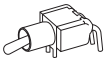

Right Angle

Fig. 3

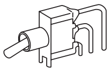

Vert. Rt. Angle

Fig. 4

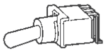

Ultra-Mini SMT

Fig. 5

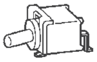

Ultra-Mini SMT

Fig. 6

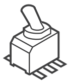

Ultra-Mini SMT

Fig. 7

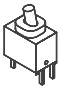

Ultra-Mini

Fig. 8

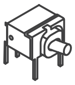

Ultra-Mini

Fig. 9

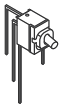

Ultra-Mini

Contact Material

Contacts and Terminals:
Copper alloy, with gold plate over nickel plate.

Rating:
0.4 VA maximum @ 20V AC or DC maximum

Fig.	Circuit	Switching Function	Options (see diagrams)			Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each			ITT Industries Part No.
			Actuator	Bushing	Termi-nation			1	25	100	
1	SPDT	On-On	S	D1	C	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1074-ND	5.57	4.46	3.54	E101SD1CBE
		On-Off-On	S	D1	C	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1075-ND	6.70	5.36	4.25	E103SD1CBE
		Mom-Off-Mom	S	D1	C	.500 x .219 x .350 (12.70 x 5.56 x 8.89)	CKN1076-ND	6.70	5.36	4.25	E105SD1CBE
		On-On	S	D1	C	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1071-ND†	6.12	4.90	3.88	ET01SD1CBE
		On-Off-On	S	D1	C	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1080-ND†	6.91	5.53	4.38	ET03SD1CBE
		On-Mom	S	D1	C	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1081-ND†	6.91	5.53	4.38	ET08SD1CBE
		On-On	M	D1	V3	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1072-ND†	6.70	5.36	4.25	ET01MD1V3BE
	DPDT	On-On	S	D1	C	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN1077-ND	8.54	6.84	5.42	E201SD1CBE
		On-On	S	D1	C	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1082-ND†	9.15	7.32	5.80	ET21SD1CBE
		On-Off-On	S	D1	C	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1083-ND†	10.33	8.27	6.55	ET23SD1CBE
		On-On	M	D1	A	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1086-ND†	10.24	8.20	6.49	ET21MD1ABE
		On-Off-On	M	D1	A	.360 x .320 x .350 (9.14 x 8.13 x 8.89)	CKN1177-ND	11.42	9.14	7.24	ET23MD1ABE
2	SPDT	On-On	S	D1	A	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1061-ND†	6.15	4.92	3.90	E101SD1ABE
		On-On	M	D1	A	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1060-ND†	6.15	4.92	3.90	E101MD1ABE
		Mom-Off-Mom	M	D1	A	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1062-ND†	7.27	5.82	4.61	E105MD1ABE
		On-On	M	D1	A	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1073-ND†	6.70	5.36	4.25	ET01MD1ABE
		On-Off-On	M	D1	A	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1084-ND†	7.49	5.99	4.75	ET03MD1ABE
		On-Mom	M	D1	A	.365 x .320 x .249 (9.27 x 8.13 x 6.32)	CKN1085-ND†	7.49	5.99	4.75	ET08MD1ABE
3	SPDT	On-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1065-ND†	6.48	5.19	4.11	E101MD1AV2BE
		On-Off-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1078-ND	7.91	6.33	5.01	E103MD1AV2BE
		Mom-Off-Mom	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1079-ND	7.91	6.33	5.01	E105MD1AV2BE
		On-On	M	D1	AV	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1385-ND	7.24	5.80	4.59	ET01MD1AVBE
		On-Off-Mom	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1178-ND	7.91	6.33	5.01	E107MD1AV2BE
	DPDT	On-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1179-ND	10.58	8.46	6.70	E201MD1AV2BE
		On-Off-On	M	D1	AV2	.500 x .260 x .500 (12.70 x 6.60 x 12.70)	CKN1180-ND	11.76	9.41	7.45	E203MD1AV2BE

Fig.	Circuit	Switching Function	Options (see diagrams)			Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing	ITT Industries Part No.
			Actu-ator	Bush-ing	Termi-nation			1	25	100			
Ultra Mini Toggles (withstands soldering and cleaning processes)													
4	SPDT	On-On	M	D1	—	.462 x .320 x .200 (11.73 x 8.13 x 5.08)	CKN1093CT-ND	7.55	6.51	5.23	CKN1093TR-ND	2508.84/600	ET01MD1SAKE(T&R)
	SPDT	On-Off-On	M	D1	—	.462 x .320 x .200 (11.73 x 8.13 x 5.08)	CKN1094CT-ND	8.32	7.18	5.77	CKN1094TR-ND	2765.88/600	ET03MD1SAKE(T&R)
	SPDT	Mom-Off-Mom	M	D1	—	.462 x .320 x .200 (11.73 x 8.13 x 5.08)	CKN1095CT-ND	8.32	7.18	5.77	CKN1095TR-ND	2765.88/600	ET05MD1SAKE(T&R)
5	SPDT	On-On	M	None	—	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN1783CT-ND	6.45	5.96	5.46	CKN1783TR-ND	2143.80/600	GT11MSABETR
	SPST	Off-On	M	None	—	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9049CT-ND	6.85	5.91	4.75	CKN9049TR-ND	2277.60/600	GT12MSABETR
	SPDT	On-Off-On	M	None	—	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN2091CT-ND	7.38	6.36	5.11	CKN2091TR-ND	2451.60/600	GT13MSABETR
6	SPDT	On-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN1784CT-ND	6.79	6.27	5.23	CKN1784TR-ND	752.40/200	GT11MSCBETR
	SPDT	Off-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN9050CT-ND	7.35	6.33	5.09	CKN9050TR-ND	904.00/200	GT12MSCBETR
	SPDT	On-Off-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN2092CT-ND	7.87	6.78	5.45	CKN2092TR-ND	968.00/200	GT13MSCBETR
	DPDT	On-On	M	None	—	.340 x .215 x .276 (8.64 x 5.46 x 7.01)	CKN2089CT-ND	9.07	7.82	6.28	CKN2089TR-ND	1116.00/200	GT21MSCBETR
7	SPDT	On-On	M	None	C	.276 x .177 x .228 (7.01 x 4.50 x 5.79)	CKN1782-ND§	5.76	4.61	3.65	—	—	GT11MCBE
	DPDT	On-On	M	None	C	.276 x .177 x .228 (7.01 x 4.50 x 5.79)	CKN2088-ND§	7.74	6.20	4.91	—	—	GT21MCBE
8	SPDT	On-On	M	None	A	.276 x .212 x .273 (7.01 x 5.83 x 6.93)	CKN1780-ND§	6.48	5.19	4.11	—	—	GT11MABE
	SPST	Off-On	M	None	A	.276 x .212 x .273 (7.01 x 5.38 x 6.93)	CKN9048-ND§	6.90	5.52	4.37	—	—	GT12MABE
	DPDT	On-On	M	None	A	.276 x .212 x .273 (7.01 x 5.38 x 6.93)	CKN2087-ND§	8.76	7.01	5.55	—	—	GT21MABE
9	SPDT	On-On	M	None	AV	.297 x .215 x .273 (7.54 x 5.46 x 6.93)	CKN1781-ND§	6.48	5.19	4.11	—	—	GT11MAVBE
	SPDT	On-On	M	None	AV	.297 x .215 x .273 (7.54 x 5.46 x 6.93)	CKN2090-ND§	7.41	5.93	4.70	—	—	GT13MAVBE
	SPDT	On-On	M	None	AV	.297 x .215 x .273 (7.54 x 5.46 x 6.93)	CKN1542-ND§	7.41	5.93	4.70	—	—	GT13MAVKE

† UL Approved § Bulk parts

Actuator Options

M

* Add .070 (1.78) for D bushings.

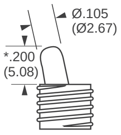

S

* Add .070 (1.78) for D bushings.

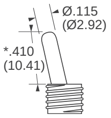

Bushing Options

D1

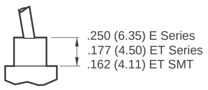

Termination Options

A

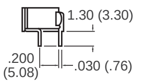

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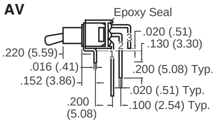

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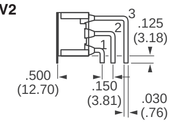

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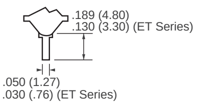

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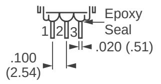

Toggle Switches

MT Series:

Material Specifications: • Contacts: Gold flash over silver • Case Material: Thermoset 94V-0 • Terminals: Gold flash **Environmental Specifications:** • Operating Temperature: -20°C ~ 80°C **Typical Performance Characteristics:** • Contact Rating: 6A @ 125VAC, 3A @ 250VAC • Initial Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000MΩ minimum @ 500VDC minimum for 1 minute • Dielectric Strength: 1,500VAC

TT Series:

Material Specifications: • Contacts: Gold over nickel • Case Material: Thermoplastic 94V-0 **Environmental Specifications:** • Operating Temperature: -30°C ~ 85°C **Typical Performance Characteristics:** • Contact Rating: 0.4VA maximum @ 20VDC or peak AC • Initial Contact Resistance: 20mΩ maximum • Insulation Resistance: 1,000MΩ 500VDC minimum • Dielectric Strength: 1,000V RMS

Gemini Series:

Design Features: • Meets CSA Requirements • Toggle - Machined brass, heavy nickel plated • Bushing and Frame - Rigid one piece die cast, copper flashed, heavy nickel plated • Fixed Contact - Welded construction, selective placement of precious metal • Movable Contact - "Captured" design eliminates possibility of displacement due to shock • Terminal Seal - Epoxy sealing of terminals is standard **Material Specifications:** • Contacts: Gold/Gold flash, Silver/Tin lead • Case Material: Thermoset • Terminal Seal: Epoxy **Environmental Specifications:** • Operating Temperature: -20°C ~ 85°C **Typical Performance Characteristics:** • Contact Rating: Gold: 0.4VA @ 20VAC/DC; Silver: 2A @ 250VAC, 5A @ 125VAC • Initial Contact Resistance: 30mΩ maximum • Insulation Resistance: 1,000MΩ @ 500VDC • Dielectric Strength: 1,000V RMS

Fig. 1

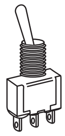

Fig. 2

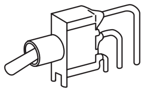

Fig. 3

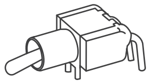

Fig.	Circuit	Switching Function	Options (see diagrams) Actuator	Bushing	Termination	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	25	100	Alcoswitch Part No.
						MT Green Series					
1	SPDT	On-On	A1	B1	T1	.512 X .315 X .394 (13.00 X 8.00 X 10.00)	450-1297-ND	8.13	5.63	4.15	MTA106D
	SPDT	On-On	A1	B1	T2	.512 X .315 X .394 (13.00 X 8.00 X 10.00)	450-1298-ND	7.77	5.38	3.97	MTA106DPC
	SPDT	On-Off-On	A1	B1	T1	.512 X .315 X .394 (13.00 X 8.00 X 10.00)	450-1299-ND	6.42	5.62	5.14	MTA106E
	SPDT	On-Off-On	A1	B1	T2	.512 X .315 X .394 (13.00 X 8.00 X 10.00)	450-1300-ND	6.58	5.76	5.27	MTA106EPC
	SPDT	On-Mom	A1	B1	T1	.512 X .315 X .394 (13.00 X 8.00 X 10.00)	450-1301-ND	6.76	5.92	5.41	MTA106F
	SPDT	Mom-Off-Mom	A1	B1	T1	.512 X .315 X .394 (13.00 X 8.00 X 10.00)	450-1302-ND	7.20	6.30	5.76	MTA106G
	SPDT	On-Off-Mom	A1	B1	T1	.512 X .315 X .394 (13.00 X 8.00 X 10.00)	450-1303-ND	7.76	6.79	6.21	MTA106H
	DPDT	On-On	A1	B1	T1	.512 X .512 X .394 (13.00 X 13.00 X 10.00)	450-1304-ND	7.06	6.18	5.65	MTA206N
	DPDT	On-On	A1	B1	T2	.512 X .512 X .394 (13.00 X 13.00 X 10.00)	450-1305-ND	7.02	6.15	5.62	MTA206NPC
	DPDT	On-Off-On	A1	B1	T1	.512 X .512 X .394 (13.00 X 13.00 X 10.00)	450-1306-ND	8.30	7.27	6.64	MTA206P
	SP3T	On-On-On	A1	B1	T1	.512 X .512 X .394 (13.00 X 13.00 X 10.00)	450-1307-ND	10.80	9.45	8.64	MTA206PA
	3PDT	On-On	A1	B1	T1	.512 X .701 X .394 (13.00 X 17.80 X 10.00)	450-1308-ND	13.36	11.69	10.69	MTA306D
	SPDT	On-On	A1	B2	T1	.512 X .315 X .412 (13.00 X 8.00 X 10.46)	450-1309-ND	7.12	6.23	5.70	MTE106D
	DPDT	On-On	A1	B2	T1	.512 X .512 X .412 (13.00 X 13.00 X 10.46)	450-1310-ND	10.88	9.52	8.71	MTE206N
	SPDT	On-On	A2	B1	T1	.512 X .315 X .393 (13.00 X 8.00 X 9.98)	450-1311-ND	6.76	5.92	5.41	MTF106D
	SPDT	On-On	A3	B3	T1	.512 X .315 X .354 (13.00 X 8.00 X 8.99)	450-1313-ND	7.62	6.67	6.10	MTG106D
	DPDT	On-On	A3	B3	T1	.512 X .512 X .354 (13.00 X 13.00 X 8.99)	450-1314-ND	9.38	8.21	7.51	MTG206N
	SPDT	On-On	A4	B1	T1	.512 X .315 X .432 (13.00 X 8.00 X 10.97)	450-1315-ND	9.60	8.40	7.68	MTL106D
	DPDT	On-On	A4	B1	T1	.512 X .512 X .432 (13.00 X 13.00 X 10.97)	450-1316-ND	11.10	9.72	8.88	MTL206N
	3PDT	On-On	A4	B1	T1	.512 X .701 X .530 (13.00 X 17.80 X 13.46)	450-1317-ND	17.30	15.14	13.84	MTL306D
	SPDT	On-On	A5	B1	T2	.512 X .315 X .394 (13.00 X 8.00 X 10.00)	450-1318-ND	6.00	5.25	4.80	MTM106DPC
						TT Series, Tiny					
1	SPDT	On-On	A6	B4	T2	.320 X .206 X .348 (8.13 X 5.23 X 8.84)	450-1319-ND	3.22	2.82	2.58	TT11DGPC1
	SPDT	On-On	A6	B4	T2	.320 X .206 X .348 (8.13 X 5.23 X 8.84)	450-1385-ND◊ ***NEW!***	4.83	4.43	3.63	TT11DGPC104
	SPDT	On-Off-On	A6	B4	T2	.320 X .206 X .348 (8.13 X 5.23 X 8.84)	450-1323-ND	4.76	4.17	3.81	TT11EGPC1
	SPDT	On-Off-On	A6	B4	T2	.320 X .206 X .348 (8.13 X 5.23 X 8.84)	450-1387-ND◊ ***NEW!***	7.14	6.55	5.36	TT11EGPC104
	DPDT	On-On	A6	B4	T2	.363 X .320 X .348 (9.22 X 8.13 X 8.84)	450-1327-ND	5.72	5.01	4.58	TT21NGPC1
	DPDT	On-On	A6	B4	T2	.363 X .320 X .348 (9.22 X 8.13 X 8.84)	450-1347-ND◊ ***NEW!***	8.58	7.87	6.44	TT21NGPC104
	SPDT	On-On	A1	B1	T2	.320 X .206 X .348 (8.13 X 5.23 X 8.84)	450-1382-ND◊ ***NEW!***	7.65	7.02	5.74	TT11DGPC9T1/404
	SPDT	On-Off-On	A1	B1	T2	.320 X .206 X .348 (8.13 X 5.23 X 8.84)	450-1324-ND	5.68	4.97	4.55	TT11EGPC9T1/4
	SPDT	On-Off-On	A1	B1	T2	.320 X .206 X .348 (8.13 X 5.23 X 8.84)	450-1383-ND◊ ***NEW!***	8.52	7.81	6.39	TT11EGPC9T1/404
	DPDT	On-On	A1	B1	T2	.363 X .320 X .348 (9.22 X 8.13 X 8.84)	450-1328-ND	6.64	5.81	5.32	TT21NGPC9T1/4
	DPDT	On-On	A1	B1	T2	.363 X .320 X .348 (9.22 X 8.13 X 8.84)	450-1384-ND◊ ***NEW!***	9.96	9.13	7.47	TT21NGPC9T1/404
2	SPDT	On-On	A7	B4	T3	.320 X .206 X .559 (8.13 X 5.23 X 14.20)	450-1321-ND	4.06	3.56	3.25	TT11DGVRA1
	SPDT	On-On	A7	B4	T3	.320 X .206 X .559 (8.13 X 5.23 X 14.20)	450-1386-ND◊ ***NEW!***	6.09	5.59	4.57	TT11DGVRA104
	SPDT	On-Off-On	A7	B4	T3	.320 X .206 X .559 (8.13 X 5.23 X 14.20)	450-1325-ND	5.92	5.18	4.74	TT11EGVRA1
	SPDT	On-Off-On	A7	B4	T3	.320 X .206 X .559 (8.13 X 5.23 X 14.20)	450-1388-ND◊ ***NEW!***	8.88	8.14	6.66	TT11EGVRA104
						Gemini Series					
1	SPDT	On-Off-On	A1	B5	T1	.500 X .265 X .358 (12.70 X 6.73 X 9.09)	450-1290-ND	5.70	4.99	4.56	A103SYZQ
	SPDT	Mom-Off-Mom	A1	B5	T1	.500 X .265 X .358 (12.70 X 6.73 X 9.09)	450-1292-ND	6.44	5.64	5.16	A105SYZQ
	SPDT	On-On	A1	B5	T1	.500 X .265 X .358 (12.70 X 6.73 X 9.09)	450-1286-ND*	5.43	3.76	2.78	A101SYZB
	SPDT	On-Off-On	A1	B5	T1	.500 X .265 X .358 (12.70 X 6.73 X 9.09)	450-1289-ND*	5.98	5.24	4.79	A103SYZB
	DPDT	On-On	A1	B5	T1	.500 X .450 X .358 (12.70 X 11.43 X 9.09)	450-1293-ND	7.22	6.32	5.78	A201SYZQ
	DPDT	On-Off-On	A1	B5	T1	.500 X .450 X .358 (12.70 X 11.43 X 9.09)	450-1294-ND	8.62	7.55	6.90	A203SYZQ
	DPDT	Mom-Off-Mom	A1	B5	T1	.500 X .450 X .358 (12.70 X 11.43 X 9.09)	450-1295-ND	10.76	9.42	8.61	A205SYZQ
	DP3T	On-On-On	A1	B5	T1	.500 X .450 X .358 (12.70 X 11.43 X 9.09)	450-1296-ND	9.64	8.44	7.72	A211SYZQ
3	SPDT	On-On	A1	B5	T4	.500 X .265 X .500 (12.70 X 6.73 X 12.70)	450-1284-ND*	5.94	5.20	4.76	A101SYAB
1	SPDT	On-On	A1	B5	T1	.500 X .265 X .358 (12.70 X 6.73 X 9.09)	450-1285-ND*	7.83	5.43	4.01	A101SYCB
	SPDT	On-Off-On	A1	B5	T1	.500 X .265 X .358 (12.70 X 6.73 X 9.09)	450-1288-ND*	5.88	5.15	4.71	A103SYCB

* Gemini Series Gold Contacts ◊ ***RoHS Complaint***

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Alcoswitch Part No.
	Splashproof Boots					
1	Splashproof Half-Boot, 1/4-40 for TT, MTA and Gemini Series, Black	450-1331-ND	5.92	5.18	4.92	BT14400
	Splashproof Half-Boot, 15/32-32 for MTG Series, Black	450-1332-ND	5.92	5.18	4.92	BT15320
2	Splashproof Full-Boot, 10-48 for TT Series, Black	450-1333-ND	5.16	4.52	4.29	B10480
	Splashproof Full-Boot, 1/4-40 for TT, MTA and Gemini Series, Black	450-1334-ND	4.36	3.82	3.62	B14400
	Splashproof Full-Boot, 1/4-40 for TT, MTA and Gemini Series, Gray	450-1335-ND	5.10	4.47	4.24	B14408
	Splashproof Full-Boot, 15/32-32 for MTG Series, Black	450-1336-ND	5.92	5.18	4.92	B15320

Actuator Options

A1

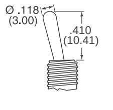

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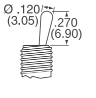

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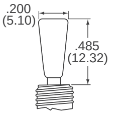

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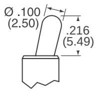

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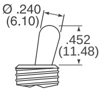

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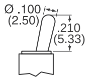

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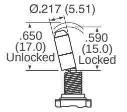

Bushing Options

B1

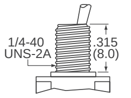

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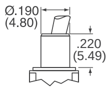

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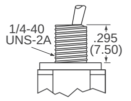

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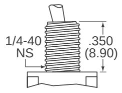

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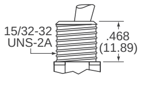

Termination Options

T1

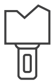

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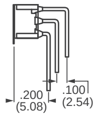

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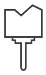

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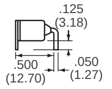

Fig. 1

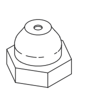

Fig. 2

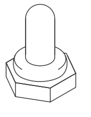

APM HEXSEAL

Transparent Rocker Switch Seals

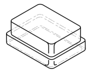

Seals without compromising switch operation, position status viewing or legend visibility.

Maximum Actuator Length Inch (mm)	Maximum Actuator Width Inch (mm)	Maximum Above Panel Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
.750 (19.05)	.531 (13.49)	.228 (5.79)	335-1011-ND	2.31	1.85	1.47	C1113/66(Clear)

Rotary Shaft Seals

APM's rotary switch and potentiometer seals surround the shaft and forms a watertight and dust tight seal against the shaft and front panel surface. Color: Gray

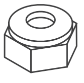

Thread Size	Max. Shaft Size Inch (mm)	Hex Nut Flat Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
3/8-32NEF-2B	.250 (6.35)	.500 (12.70)	335-1016-ND	3.12	2.50	1.98	N9030x1/4
1/4-32NEF-2B	.125 (3.18)	.375 (9.53)	335-1020-ND	3.12	2.50	1.98	N9040x1/8

Panel Bushing Seal

Protect and prevent seepage/leakage through switch/circuit breaker panel cutout using APM's reusable self-sealing washers. Color: Gray

Compatible Switch Bushing	Washer Diameter Inch (mm)	Washer Thickness Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
15/32-32	.677 (17.20)	.120 (3.05)	335-1021-ND	2.43	1.95	1.54	60064

Pushbutton Switch Boots

APM's sealing boots are designed to protect your switches and potentiometers from hostile environments without compromising or interfering with the switches basic function. Boots create a full environmental seal even under high-pressure washdowns. Each seal is made from a tough, high tear strength elastomer that is resistant to most chemicals, lubricants, acids and solvents. UL and CSA recognized which facilitate easier agency listings and most Hexseals are QPL approved under MIL-B-5423.

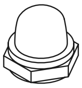

Thread Size	Throat Size (I.D.) Inch (mm)	Plunger Height Inch (mm)	Color	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
15/32-32NS-2B	.422 (10.72)	.281 (7.14)	Gray	335-1009-ND	3.42	2.74	2.17	N3030
15/32-32NS-2B		.438 (11.13)	Gray	335-1008-ND	3.42	2.74	2.17	NC3030
7/16-28UNEF-2B		.438 (11.13)	Clear	335-1013-ND	3.93	3.15	2.49	NC303 7/16-28(CLR)
1/4-40NS-2B	.188 (4.77)	.141 (3.58)	Gray	335-1017-ND	4.08	3.27	2.59	N5040
1/4-32NS-2B		.203 (5.16)	Gray	335-1018-ND	4.08	3.27	2.59	N5040G
1/4-40NS-2B		.203 (5.16)	Gray	335-1019-ND	4.08	3.27	2.59	N5040R

Toggle Switch Boots

Hexseal toggle switch boots are molded from a high tear strength, silicon rubber bonded to a built-in mounting nut. Each encloses the base of the protruding switch bushing and forms a water and dust tight seal against the front panel surface.

* Half-boot toggle

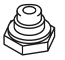

** Full-boot toggle

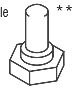

Thread Size	Throat (I.D.) Inch (mm)	Height Inch (mm)	Color	Digi-Key Part No.	Price Each 1	25	100	APM Hexseal Part No.
15/32-32NS-2B	.078 (1.98)	.437 (11.10)	Gray	335-1007-ND*	3.42	2.74	2.17	N1030B
1/4-40NS-2B	.047 (1.19)	.250 (6.35)	Gray	335-1006-ND*	4.08	3.27	2.59	N5032B
15/32-32NS-2B	.219 (5.56)	.844 (21.44)	Gray	335-1005-ND**	3.42	2.74	2.17	N1030
1/4-40NS-2B	.062 (1.57)	.594 (15.09)	Gray	335-1001-ND**	4.05	3.24	2.57	N5030S
1/4-40NS-2B	.062 (1.57)	.500 (12.70)	Red	335-1002-ND**	4.56	3.65	2.89	N5030L(Red)
1/4-40NS-2B	.062 (1.57)	.500 (12.70)	Black	335-1003-ND**	4.56	3.65	2.89	N5030L(Black)

Carling Technologies™

Miniature Rocker Switches

Fig. 1

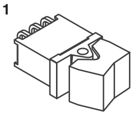

Fig. 2

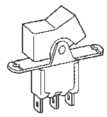

Fig. 3

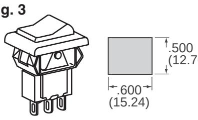

Termination Options

M1

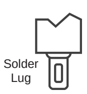

M6

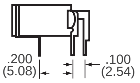

Double Pole Shown

Contact Material Options

G: Moveable contact and terminals: copper alloy, silver plate; Terminals: silver plated; Rating: **1M1**: 5A @ 125VAC or 28VDC, 2A @ 250VAC; **1SS**: 3A @ 125VAC or 28VDC, 1.5A @ 250VAC

Q: Moveable contact and terminals: copper alloy, silver plate; Rating: 5A @ 125VAC or 28VDC, 2A @ 250VAC

Fig.	Circuit	Actuator Color	Switching Function	Termi-nation	Contact Material	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
Series 1SS – Sealed Sub-Miniature Rocker Switch										
1	SPDT	Black	On-On	M6	G	432-1136-ND	4.58	3.53	2.47	1SS-WMSP1-R1/2-M6GE
	SPDT	Black	On-Off-On	M6	G	432-1137-ND	5.10	3.93	2.75	1SS-WMSP3-R1/2-M6GE
	DPDT	Black	On-On	M6	G	432-1138-ND	5.75	4.43	3.10	1SS-WMDP1-R1/2-M6GE
	DPDT	Black	On-Off-On	M6	G	432-1139-ND	6.27	4.83	3.38	1SS-WMDP3-R1/2-M6GE
Series 1M1 – Miniature Rocker Switch										
2	SPDT	Black	On-Off-Mom	M1	Q	432-1140-ND	3.51	2.70	1.89	1M1-SP5-R1/2-M1QE
	DPDT	Black	On-On	M1	Q	432-1141-ND	3.15	2.43	1.70	1M1-DP1-R1/2-M1QE
	DPDT	Black	On-Off-On	M1	Q	432-1142-ND	3.64	2.80	1.96	1M1-DP3-R1/2-M1QE
3	DPDT	Black	On-On	M1	G	432-1233-ND	5.14	3.95	2.77	1M1-DP1-R6/2-2M1GE
	DPDT	Black	On-Off-On	M1	G	432-1234-ND	5.85	4.50	3.15	1M1-DP3-R6/2-2M1GE
	DPDT	Black	On-Off-Mom	M1	G	432-1235-ND	6.31	4.85	3.40	1M1-DP5-R6/2-2M1GE

Toggle Switches

Fig. 1

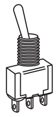

Fig. 2

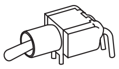

Actuator Options

T1

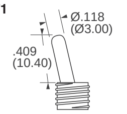

T2

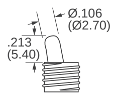

T6

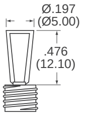

T8

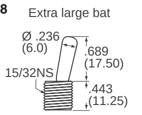

Contact Material Options

Q: Moveable contact and terminals: copper alloy, silver plate; Rating: 5A @ 125VAC or 28VDC, 2A @ 250VAC

R: Moveable contact and terminals: copper alloy with gold plate over nickel plate; Rating: 0.4VA maximum @ 20V maximum (AC/DC)

Fig.	Circuit	Switching Function	Actuator	Bushing	Termi-nation	Contact Material	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
Series 2M1 – Miniature Toggle Switch											
1	SPDT	On-On	T1	B1	M1	Q	432-1143-ND	1.79	1.38	.97	2M1-SP1-T1-B1-M1QE
	SPDT	On-Off-On	T1	B1	M1	Q	432-1144-ND	3.32	2.55	1.79	2M1-SP3-T1-B1-M1QE
	SPDT	Mom-Off-Mom	T1	B1	M1	Q	432-1145-ND	3.58	2.75	1.93	2M1-SP4-T1-B1-M1QE
	SPDT	On-Off-Mom	T1	B1	M1	Q	432-1146-ND	3.58	2.75	1.93	2M1-SP5-T1-B1-M1QE
	SPDT	On-Mom	T1	B1	M1	Q	432-1147-ND	3.15	2.43	1.70	2M1-SP2-T1-B1-M1QE
	DPDT	On-On	T1	B1	M1	Q	432-1148-ND	3.61	2.78	1.95	2M1-DP1-T1-B1-M1QE
	DPDT	On-Off-On	T1	B1	M1	Q	432-1149-ND	4.13	3.18	2.23	2M1-DP3-T1-B1-M1QE
	DPDT	On-Mom	T1	B1	M1	Q	432-1150-ND	4.13	3.18	2.23	2M1-DP2-T1-B1-M1QE
	3PDT	On-On	T1	B1	M1	Q	432-1151-ND	8.74	6.73	4.71	2M1-3P1-T1-B1-M1QE
	4PDT	On-On	T1	B1	M1	Q	432-1152-ND	8.61	6.63	4.64	2M1-4P1-T1-B1-M1QE
	SPDT	On-On	T6	B1	M1	Q	432-1153-ND	2.86	2.20	1.54	2M1-SP1-T6-B1-M1QE
	SPDT	On-Off-On	T6	B1	M1	Q	432-1154-ND	3.51	2.70	1.89	2M1-SP3-T6-B1-M1QE
	SPDT	On-Mom	T6	B1	M1	Q	432-1155-ND	3.35	2.58	1.81	2M1-SP2-T6-B1-M1QE
	DPDT	On-On	T6	B1	M1	Q	432-1156-ND	3.77	2.90	2.03	2M1-DP1-T6-B1-M1QE
	SPDT	On-On	T8	B0	M1	Q	432-1157-ND	3.28	2.53	1.77	2M1-SP1-T8-B0-M1QE
	SPDT	On-Off-On	T8	B0	M1	Q	432-1158-ND	3.97	3.05	2.14	2M1-SP3-T8-B0-M1QE
	SPDT	On-Mom	T8	B0	M1	Q	432-1159-ND	3.77	2.90	2.03	2M1-SP2-T8-B0-M1QE
	DPDT	On-On	T8	B0	M1	Q	432-1160-ND	4.26	3.28	2.30	2M1-DP1-T8-B0-M1QE
	SPDT	On-On	T1	B9	M1	Q	432-1161-ND	2.86	2.20	1.54	2M1-SP1-T1-B9-M1QE
	SPDT	On-Off-On	T1	B9	M1	Q	432-1162-ND	3.51	2.70	1.89	2M1-SP3-T1-B9-M1QE
	DPDT	On-On	T1	B9	M1	Q	432-1163-ND	3.77	2.90	2.03	2M1-DP1-T1-B9-M1QE
	SPDT	On-On	T1	B1	M2	Q	432-1168-ND	3.32	2.55	1.79	2M1-SP1-T1-B1-M2QE
	SPDT	On-Off-On	T1	B1	M2	Q	432-1169-ND	3.32	2.55	1.79	2M1-SP3-T1-B1-M2QE
	SPDT	On-Mom	T1	B1	M2	Q	432-1170-ND	3.15	2.43	1.70	2M1-SP2-T1-B1-M2QE
	DPDT	On-On	T1	B1	M2	Q	432-1171-ND	3.61	2.78	1.95	2M1-DP1-T1-B1-M2QE
	DPDT	On-Off-On	T1	B1	M2	Q	432-1172-ND	4.13	3.18	2.23	2M1-DP3-T1-B1-M2QE
	DPDT	On-Mom	T1	B1	M2	Q	432-1173-ND	4.13	3.18	2.23	2M1-DP2-T1-B1-M2QE
2	SPDT	On-On	T2	B4	M6	R	432-1164-ND	2.99	2.30	1.61	2M1-SP1-T2-B4-M6RE
	SPDT	On-Off-On	T2	B4	M6	R	432-1165-ND	3.64	2.80	1.96	2M1-SP3-T2-B4-M6RE
	SPDT	On-Mom	T2	B4	M6	R	432-1166-ND	3.48	2.68	1.88	2M1-SP2-T2-B4-M6RE
	DPDT	On-On	T2	B4	M6	R	432-1167-ND	3.97	3.05	2.14	2M1-DP1-T2-B4-M6RE

Termination Options

M1

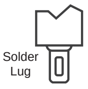

M2

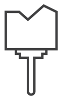

PCB

M6

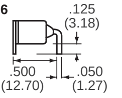

Single Pole Shown

Bushing Options

B1

Standard Keyway Thread

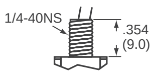

B4

Short Keyway Non-Thread

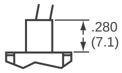

B9

Splash-proof

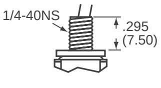

B0

15/32 Thread Bushing

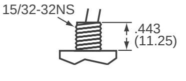

Carling Technologies

Pushbutton Switches

Fig. 1

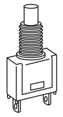

Fig. 2

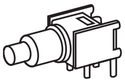

Fig. 3

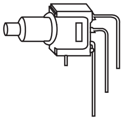

Fig. 4

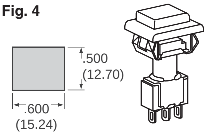

Contact Material Options

Q: Moveable contact & terminals: copper alloy, silver plate; Rating: 1A@ 125VAC or 28VDC

R: Moveable contact & terminals: copper alloy with gold plate over nickel plate; Rating 0.4VA maximum @ 20V maximum (AC/DC)

G: Moveable contact & terminals: copper alloy, silver plate; Terminals: silver plate with outer layer in gold plating; Rating 1A@ 120VAC or 28VDC

Termination Options

M1

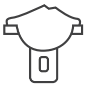

Solder Eyelet

M2

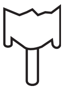

PCB

M6

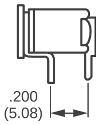

M7

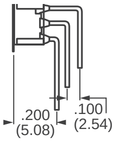

Bushing Options

B5 - (shown)
B6 - Unthreaded

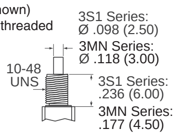

B11 Threaded shown with flat

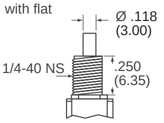

Fig.	Circuit	Switching Function	Bushing	Termi-nation	Contact Material	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
Series 3S1 — Sub-Miniature Pushbutton Switch										
1	SPST	Mom(N/O)	B5	M1	Q	432-1174-ND	3.84	2.95	2.07	3S1-SP9-B5-M1QE
	SPDT	Mom(N/C)	B5	M1		432-1175-ND	4.26	3.28	2.30	3S1-SP8-B5-M1QE
	SPST	Mom(N/O)	B6	M2		432-1176-ND	4.26	3.28	2.30	3S1-SP9-B6-M2QE
	SPDT	Mom(N/C)	B6	M2		432-1177-ND	4.26	3.28	2.30	3S1-SP8-B6-M2QE
2	SPST	Mom(N/O)	B6	M6	R	432-1178-ND	4.29	3.30	2.31	3S1-SP9-B6-M6RE
	SPDT	Mom(N/C)				432-1179-ND	4.71	3.63	2.54	3S1-SP8-B6-M6RE
3	SPST	Mom(N/O)	B6	M7	R	432-1180-ND	4.29	3.30	2.31	3S1-SP9-B6-M7RE
	SPDT	Mom(N/C)				432-1181-ND	4.71	3.63	2.54	3S1-SP8-B6-M7RE
Series 3MN — Snap-Acting Miniature Pushbutton Switch										
1	SPDT	Mom(N/C)	B11	M1	G	432-1182-ND	3.77	2.90	2.03	3MN-SP7-P1-B11-M1GE
	SPDT			M1	R	432-1183-ND	4.52	3.48	2.44	3MN-SP7-P1-B11-M1RE
	DPDT			M1	G	432-1184-ND	5.69	4.38	3.07	3MN-DP7-P1-B11-M1GE
	DPDT			M1	R	432-1185-ND	6.70	5.15	3.61	3MN-DP7-P1-B11-M1RE
	SPDT			M2	G	432-1190-ND	3.77	2.90	2.03	3MN-SP7-P1-B11-M2GE
	SPDT			M2	R	432-1191-ND	3.77	2.90	2.03	3MN-SP7-P1-B11-M2RE
2	SPDT	Mom(N/C)	B6	M6	G	432-1192-ND	3.97	3.05	2.14	3MN-SP7-P1-B6-M6GE
					R	432-1193-ND	4.68	3.60	2.52	3MN-SP7-P1-B6-M6RE
3	SPDT	Mom(N/C)	B6	M7	G	432-1194-ND	3.97	3.05	2.14	3MN-SP7-P1-B6-M7GE
					R	432-1195-ND	4.68	3.60	2.52	3MN-SP7-P1-B6-M7RE
4	SPDT	Mom(N/C)	—	M1	G	432-1186-ND	4.16	3.20	2.24	3MN-SP7-AP2/22-M1GE
	SPDT				R	432-1187-ND	4.16	3.20	2.24	3MN-SP7-AP2/22-M1RE
	DPDT				G	432-1188-ND	7.05	5.43	3.80	3MN-DP7-AP2/22-M1GE
	DPDT				R	432-1189-ND	7.05	5.43	3.80	3MN-DP7-AP2/22-M1RE

Pushbutton Switch Accessories

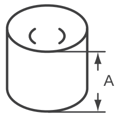

Cap Color	Cap Diameter Inch (mm)	Cap Height - Dim. A Inch (mm)	Plunger Diameter Inch (mm)	Digi-Key Part No.	Pricing 1	25	100	Carling Technologies Part No.
Series 3S1 — Pushbutton Caps								
White	.197 (5.0)	.158 (4.0)	.098 (2.5)	432-1218-ND	.20	2.63	7.20	3S1-C11
Black				432-1219-ND	.20	2.63	7.20	3S1-C12
Red				432-1220-ND	.20	2.63	7.20	3S1-C13
White	.291 (7.4)	.138 (3.5)	.098 (2.5)	432-1221-ND	.20	2.63	7.20	3S1-C21
Black				432-1222-ND	.20	2.63	7.20	3S1-C22
Red				432-1223-ND	.20	2.63	7.20	3S1-C23
Series 3MN — Pushbutton Caps								
White	.315 (8.0)	.295 (7.5)	.118 (3.0)	432-1224-ND	.20	2.63	7.20	3MN-C11
Black				432-1225-ND	.20	2.63	7.20	3MN-C12
Red				432-1226-ND	.20	2.63	7.20	3MN-C13
White	.382 (9.7)	.193 (4.9)	.118 (3.0)	432-1227-ND	.20	2.63	7.20	3MN-C21
Black				432-1228-ND	.20	2.63	7.20	3MN-C22
Red				432-1229-ND	.20	2.63	7.20	3MN-C23

Slide Switches

Contact Material Options

Q: Moveable contact and terminals: copper alloy, silver plate; Rating: 5A @ 125VAC or 28VDC, 2A @ 250VAC

R: Moveable contact and terminals: copper alloy with gold plate over nickel plate; Rating: 0.4VA maximum @ 20V maximum (AC/DC)

Fig. 1

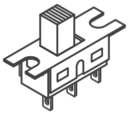

Fig. 2

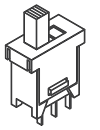

Fig. 3

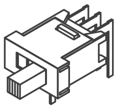

Actuator Options

S1

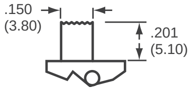

Termination Options

M1

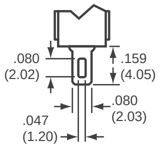

M2

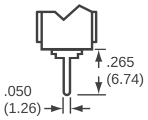

PCB

M6

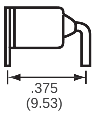

Fig.	Circuit	Switching Function	Actuator	Termi-nation	Contact Material	Digi-Key Part No.	Price Each 1	10	25	Carling Technologies Part No.
Series 4M1 — Miniature Slide Switch										
1	SPDT	On-On	S1	M1	Q	432-1196-ND	3.38	2.60	1.82	4M1-SSP1-S1/2-M1QE
	DPDT			M1	Q	432-1197-ND	3.97	3.05	2.14	4M1-SDP1-S1/2-M1QE
	SPDT			M2	R	432-1198-ND	3.15	2.43	1.70	4M1-SSP1-S1/2-M2RE
	SPDT			M2	Q	432-1199-ND	2.67	2.05	1.44	4M1-SSP1-S1/2-M2QE
	DPDT			M2	Q	432-1200-ND	3.48	2.68	1.88	4M1-SDP1-S1/2-M2QE
	DPDT	On-On	S1	M2	R	432-1201-ND	3.97	3.05	2.14	4M1-SDP1-S1/2-M2RE
	SPDT			M6		432-1202-ND	3.15	2.43	1.70	4M1-SSP1-S1/2-M6RE
Series 4S1 — Sub-Miniature Slide Switch										
2	SPDT	On-On	—	M2	R	432-1203-ND	3.25	2.50	1.75	4S1-FSP1-M2RE
3	SPDT	On-On	—	M6	R	432-1204-ND	3.58	2.75	1.93	4S1-FSP1-M6RE

E-SWITCH®

Toggle Switches

Note: All switches come complete with mounting hardware.

Fig. 1 — Vertical

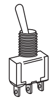

Fig. 2 — Horizontal Right Angle

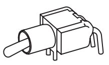

Fig. 3 — Vertical Right Angle

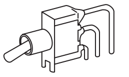

Contact Material:

Q **(Silver): Fixed terminal and moving contact:** Silver plated over copper alloy. **Contact Rating:** 5A at 120VAC or 28VDC; 2A at 250VAC

R **(Gold): Fixed terminal and moving contact:** Copper alloy with gold plate over nickel plate. **Contact Rating:** 0.4VA maximumu at 20VAC or DC maximum

Fig.	Circuit	Switching Function	Options (see diagrams)			Contact Material	Dim. Inch (mm) L x W x H	Digi-Key Part No.	Price Each			E-Switch Part No.
			Actuator	Bushing	Termination				1	10	100	
100 Series — Miniature Toggle Switches (Metal Bushing)												
1	SPDT	On-On	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2350-ND	3.26	2.94	2.51	100SP1T1B1M1QEH
	SPDT	On-On	T1	B1	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2351-ND	3.55	3.20	2.73	100SP1T1B1M1REH
	SPDT	On-On	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2352-ND	3.26	2.94	2.51	100SP1T1B1M2QEH
	SPDT	On-On	T1	B1	M2	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2353-ND	3.55	3.20	2.73	100SP1T1B1M2REH
	SPDT	On-On	T1	B1	M5	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2354-ND	4.24	3.82	3.26	100SP1T1B1M51REH
	SPDT	On-On	T1	B4	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2355-ND	3.26	2.94	2.51	100SP1T1B4M2QE
	SPDT	On-On	T1	B6	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2357-ND	4.46	4.02	3.42	100SP1T1B6M1QEH
	SPDT	On-On	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2358-ND	3.90	3.51	2.99	100SP1T1B9M1QEH
	SPDT	On-On	T2	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2359-ND	3.26	2.94	2.51	100SP1T2B1M1QEH
	SPDT	On-On	T2	B3	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2360-ND	3.26	2.94	2.51	100SP1T2B3M1QEH
	SPDT	On-On	T2	B3	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2361-ND	3.26	2.94	2.51	100SP1T2B3M2QEH
	SPDT	On-On	T4	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2367-ND	3.43	3.09	2.63	100SP1T4B1M1QEH
	SPDT	On-On	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2368-ND	4.46	4.02	3.42	100SP1T6B11M1QEH
	SPDT	On-On	T6	B11	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2369-ND	4.74	4.27	3.64	100SP1T6B11M1REH
	SPDT	On-On	T6	B11	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2370-ND	4.46	4.02	3.42	100SP1T6B11M2QEH
	SPDT	On-On	T8	B13	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2372-ND	4.85	4.37	3.73	100SP1T8B13M1QEH
	SPDT	On-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2373-ND	3.51	3.16	2.70	100SP2T1B1M1QEH
	SPDT	On-Mom	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2374-ND	4.70	4.24	3.61	100SP2T6B11M1QEH
	SPDT	On-Off-On	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2375-ND	3.67	3.31	2.82	100SP3T1B1M1QEH
	SPDT	On-Off-On	T1	B1	M1	R	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2376-ND	3.96	3.57	3.04	100SP3T1B1M1REH
	SPDT	On-Off-On	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2377-ND	3.67	3.31	2.82	100SP3T1B1M2QEH
	SPDT	On-Off-On	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2380-ND	4.31	3.88	3.31	100SP3T1B9M1QEH
	SPDT	On-Off-On	T4	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2385-ND	3.83	3.46	2.94	100SP3T4B1M1QEH
	SPDT	On-Off-On	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2386-ND	4.87	4.38	3.74	100SP3T6B11M1QEH
	SPDT	On-Off-On	T8	B13	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2387-ND	5.26	4.74	4.04	100SP3T8B13M1QEH
	SPDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2388-ND	4.16	3.75	3.20	100SP4T1B1M1QEH
	SPDT	Mom-Off-Mom	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2389-ND	4.16	3.75	3.20	100SP4T1B1M2QEH
	SPDT	Mom-Off-Mom	T1	B9	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2390-ND	4.79	4.32	3.68	100SP4T1B9M1QEH
	SPDT	Mom-Off-Mom	T6	B11	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2392-ND	5.36	4.82	4.11	100SP4T6B11M2QEH
	SPDT	On-Off-Mom	T1	B1	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2393-ND	4.41	3.97	3.38	100SP5T1B1M1QEH
	SPDT	On-Off-Mom	T1	B1	M2	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2394-ND	4.41	3.97	3.38	100SP5T1B1M2QEH
	SPDT	On-Off-Mom	T6	B11	M1	Q	.500 x .270 x .350 (12.7 x 6.86 x 8.89)	EG2397-ND	5.60	5.05	4.30	100SP5T6B11M1QEH
	DPDT	On-On	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2398-ND	4.37	3.93	3.35	100DP1T1B1M1QEH
	DPDT	On-On	T1	B1	M1	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2399-ND	4.82	4.34	3.70	100DP1T1B1M1REH
	DPDT	On-On	T1	B1	M2	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2400-ND	4.37	3.93	3.35	100DP1T1B1M2QEH
	DPDT	On-On	T1	B1	M2	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2401-ND	4.82	4.34	3.70	100DP1T1B1M2REH
	DPDT	On-On	T1	B9	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2402-ND	5.00	4.50	3.84	100DP1T1B9M1QEH
	DPDT	On-On	T2	B3	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2403-ND	4.37	3.93	3.35	100DP1T2B3M1QEH
	DPDT	On-On	T4	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2407-ND	4.53	4.08	3.48	100DP1T4B1M1QEH
	DPDT	On-On	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2408-ND	5.56	5.01	4.27	100DP1T6B11M1QEH
	DPDT	On-On	T6	B11	M1	R	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2409-ND	6.07	5.47	4.66	100DP1T6B11M1REH
	DPDT	On-On	T8	B13	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2410-ND	5.96	5.37	4.57	100DP1T8B13M1QEH
	DPDT	On-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2411-ND	4.61	4.15	3.54	100DP2T1B1M1QEH
	DPDT	On-Mom	T6	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2412-ND	5.81	5.23	4.46	100DP2T6B11M1QEH
	DPDT	On-Off-On	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2413-ND	5.10	4.59	3.91	100DP3T1B1M1QEH
	DPDT	On-Off-On	T1	B1	M2	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2414-ND	5.10	4.59	3.91	100DP3T1B1M2QEH
	DPDT	On-Off-On	T1	B9	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2415-ND	5.73	5.16	4.40	100DP3T1B9M1QEH
	DPDT	On-Off-On	T4	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2417-ND	5.26	4.74	4.04	100DP3T4B1M1QEH
	DPDT	On-Off-On	T8	B13	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2418-ND	6.69	6.03	5.13	100DP3T8B13M1QEH
	DPDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2419-ND	5.43	4.89	4.17	100DP4T1B1M1QEH
	DPDT	Mom-Off-Mom	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2420-ND	6.62	5.96	5.08	100DP4T6B11M1QEH
	DPDT	On-Off-Mom	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2421-ND	5.59	5.03	4.29	100DP5T1B1M1QEH
	DPDT	On-Off-Mom	T6	B11	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2422-ND	6.78	6.11	5.21	100DP5T6B11M1QEH
	DPDT	On-On-On	T1	B1	M1	Q	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	EG2423-ND	6.57	5.92	5.04	100DP6T1B1M1QEH
	3PDT	On-On	T1	B1	M1	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2424-ND	8.97	8.07	6.88	1003P1T1B1M1QEH
	3PDT	On-On	T1	B1	M2	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2425-ND	8.97	8.07	6.88	1003P1T1B1M2QEH
	3PDT	On-Off-On	T1	B1	M1	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2426-ND	9.54	8.59	7.32	1003P3T1B1M1QEH
	3PDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .650 x .475 (12.7 x 16.51 x 12.06)	EG2427-ND	10.43	9.40	8.00	1003P4T1B1M1QEH
	4PDT	On-On	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 16.51 x 12.06)	EG2428-ND	12.72	11.45	9.76	1004P1T1B1M1QEH
	4PDT	On-Off-On	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 21.59 x 12.06)	EG2429-ND	13.62	12.26	10.44	1004P3T1B1M1QEH
	4PDT	Mom-Off-Mom	T1	B1	M1	Q	.500 x .850 x .475 (12.7 x 21.59 x 12.06)	EG2430-ND	14.43	12.99	11.07	1004P4T1B1M1QEH
	DPDT	On-On	T2	B4	VS2	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2406-ND	6.04	5.44	4.63	100DP1T2B4VS2RE
	DPDT	On-Off-On	T2	B4	VS2	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2416-ND	6.77	6.10	5.20	100DP3T2B4VS2RE
	SPDT	On-On	T2	B4	VS2	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2365-ND	4.49	4.04	3.45	100SP1T2B4VS2QE
	SPDT	On-On	T2	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2366-ND	4.77	4.30	3.66	100SP1T2B4VS2RE
	SPDT	On-Off-On	T2	B4	VS2	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2383-ND	4.90	4.41	3.76	100SP3T2B4VS2QE
	SPDT	On-Off-On	T2	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2384-ND	5.18	4.67	3.98	100SP3T2B4VS2RE
	SPDT	On-Off-On	T1	B4	VS2	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2379-ND	5.18	4.67	3.98	100SP3T1B4VS2RE
2	SPDT	Mom-Off-Mom	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2391-ND	5.63	5.07	4.32	100SP4T2B4M6RE
	SPDT	On-Off-Mom	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2395-ND	5.87	5.29	4.51	100SP5T2B4M6RE
2	DPDT	On-On	T2	B4	M6	Q	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2404-ND	5.63	5.07	4.32	100DP1T2B4M6QE
	DPDT	On-On	T2	B4	M6	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2405-ND	6.08	5.47	4.66	100DP1T2B4M6RE
	SPDT	On-On	T1	B4	M6	R	.500 x .500 x .450 (12.7 x 12.7 x 11.43)	EG2356-ND	4.73	4.27	3.63	100SP1T1B4M6RE
	SPDT	On-On	T2	B4	M6	Q	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2362-ND	4.45	4.01	3.41	100SP1T2B4M6QE
	SPDT	On-On	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2363-ND	4.73	4.27	3.63	100SP1T2B4M6RE
	SPDT	On-On	T6	B12	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2371-ND	5.93	5.34	4.55	100SP1T6B12M6RE
	SPDT	On-Off-On	T1	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2378-ND	5.14	4.63	3.95	100SP3T1B4M6RE
	SPDT	On-Off-On	T2	B4	M6	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2381-ND	5.14	4.63	3.95	100SP3T2B4M6RE
3	SPDT	On-On	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2364-ND	5.07	4.57	3.89	100SP1T2B4M7RE
	SPDT	On-Off-On	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2382-ND	5.48	4.93	4.20	100SP3T2B4M7RE
	SPDT	On-Off-Mom	T2	B4	M7	R	.500 x .500 x .270 (12.7 x 12.7 x 6.86)	EG2396-ND	6.21	5.60	4.77	100SP5T2B4M7RE
100A Series — Process-Sealed Miniature Toggle Switches (Plastic Bushing)												
1	SPDT	On-On	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2432-ND	4.37	3.93	3.35	100AWSP1T1B4M2RE
	SPDT	On-On	T2	B4	VS2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2436-ND	5.64	5.08	4.33	100AWSP1T2B4VS2RE
	SPDT	On-Off-On	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2437-ND	4.77	4.30	3.66	100AWSP3T1B4M2RE
	SPDT	Mom-Off-Mom	T1	B4	M2	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2439-ND	5.35	4.82	4.10	100AWSP4T1B4M2RE
	DPDT	On-On	T1	B4	M2	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2443-ND	5.06	4.56	3.88	100AWDP1T1B4M2RE
2	SPDT	On-On	T1	B4	M6	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2433-ND	5.84	5.26	4.48	100AWSP1T1B4M6RE
	SPDT	On-On	T2	B4	M6	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2434-ND	5.84	5.26	4.48	100AWSP1T2B4M6RE
3	SPDT	On-On	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2435-ND	6.21	5.60	4.77	100AWSP1T2B4M7RE
	SPDT	Mom-Off-Mom	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2441-ND	7.19	6.48	5.52	100AWSP4T2B4M7RE
	SPDT	On-Off-Mom	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2442-ND	7.35	6.62	5.64	100AWSP5T2B4M7RE
	SPDT	On-Off-On	T2	B4	M7	R	.504 x .272 x .453 (12.8 x 6.91 x 11.51)	EG2438-ND	6.62	5.96	5.08	100AWSP3T2B4M7RE
	DPDT	On-On	T2	B4	M7	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2444-ND	7.04	6.34	5.40	100AWDP1T2B4M7RE
	DPDT	On-Off-On	T2	B4	M7	R	.504 x .453 x .453 (12.8 x 6.91 x 11.51)	EG2445-ND	7.37	6.63	5.65	100AWDP3T2B4M7RE
Caps for 100 Series												
Vinyl Toggle Cap, White, for T1 Actuators								EG2470-ND	.14	.13	.12	T100-1 WHTTOGGLECAP
Vinyl Toggle Cap, Black, for T1 Actuators								EG2471-ND	.14	.13	.12	T100-2 BLKTOGGLECAP

Actuators

T1 — Standard

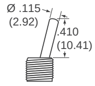

T2 — Mini

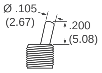

T4 — Extended Bat

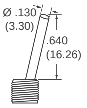

T6 — Flattened

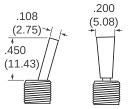

T8 — Large Bat

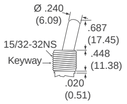

Bushings

B1

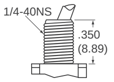

B3
B4 (Unthreaded)

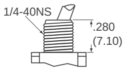

B6

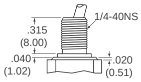

B9

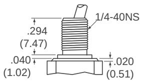

B11
B12 (Unthreaded)

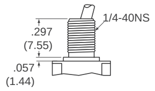

B13 — Large Threaded

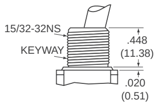

Termination Options

M1 — Eyelet Terminal

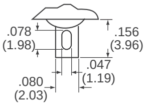

THK .030 (0.76)

M6 — SPDT

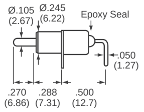

M2 — PC Mount

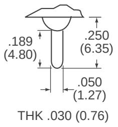

THK .030 (0.76)

M7 — SPDT

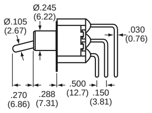

M5 — Wirewrap Terminal

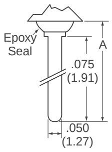

VS2 — Vertical with Bracket

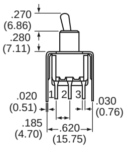

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E-SWITCH® Toggle Switches

Fig. 1 — Vertical

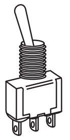

Fig. 2 — Horizontal Right Angle

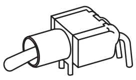

Fig. 3 — Vertical Right Angle

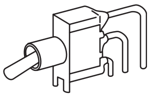

Note: All switches come complete with mounting hardware.

Contact Material:

Q **(Silver): Fixed terminal and moving contact:** Silver plated over copper alloy. **Contact Rating:** 5A at 28VAC or VDC; 2A at 250VAC

R **(Gold): Fixed terminal and moving contact:** Copper alloy with gold plate over nickel plate. **Contact Rating:** 0.4VA maximum at 20VAC or DC maximum

Fig.	Circuit	Switching Function	Options (see diagrams) Actuator	Bushing	Termination	Contact Material	Dim. Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
							200 Series — Subminiature Toggle Switches					
1	SPDT	On-On	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2446-ND	3.31	2.98	2.54	200MSP1T1B1M1QEH
	SPDT	On-On	T1	B1	M2	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2447-ND	3.31	2.98	2.54	200MSP1T1B1M2QEH
	SPDT	On-Off-On	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2450-ND	4.45	4.01	3.41	200MSP3T1B1M1QEH
	SPDT	On-Off-On	T1	B1	M2	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2451-ND	4.45	4.01	3.41	200MSP3T1B1M2QEH
	SPDT	Mom-Off-Mom	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2453-ND	4.65	4.19	3.57	200MSP4T1B1M1QEH
	SPDT	On-Off-Mom	T1	B1	M1	Q	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2454-ND	4.49	4.04	3.45	200MSP5T1B1M1QEH
	DPDT	On-On	T1	B1	M1	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2455-ND	4.65	4.19	3.57	200MDP1T1B1M1QEH
	DPDT	On-On	T1	B1	M2	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2456-ND	4.65	4.19	3.57	200MDP1T1B1M2QEH
	DPDT	On-Off-On	T1	B1	M1	Q	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2458-ND	5.47	4.92	4.20	200MDP3T1B1M1QEH
2	SPDT	On-Off-On	T2	B2	M6	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2452-ND	6.04	5.44	4.63	200MSP3T2B2M6RE
	SPDT	On-On	T2	B2	M6	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2448-ND	4.79	4.31	3.67	200MSP1T2B2M6RE
	DPDT	On-On	T2	B2	M6	R	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	EG2457-ND	6.38	5.75	4.90	200MDP1T2B2M6RE
3	SPDT	On-On	T2	B2	M7	R	.320 x .240 x .340 (8.13 x 6.10 x 8.64)	EG2449-ND	5.28	4.76	4.06	200MSP1T2B2M7RE
							200A Series — Process-Sealed Subminiature Toggle Switches					
1	SPDT	On-On	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2459-ND	4.16	3.75	3.20	200AWMSP1T1A1M2RE
	SPDT	On-Mom	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2461-ND	5.30	4.78	4.07	200AWMSP2T1A1M2RE
	SPDT	On-Off-On	T1	A1	M2	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2463-ND	4.33	3.90	3.32	200AWMSP3T1A1M2RE
	DPDT	On-On	T1	A1	M2	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2465-ND	6.64	5.98	5.09	200AWMDP1T1A1M2RE
	DPDT	On-Off-On	T1	A1	M2	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2467-ND	7.75	6.98	5.95	200AWMDP3T1A1M2RE
2	SPDT	On-On	T2	A1	M6	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2460-ND	5.23	4.71	4.02	200AWMSP1T2A1M6RE
	SPDT	On-Off-On	T2	A1	M6	R	.320 x .200 x .527 (8.13 x 5.08 x 13.39)	EG2464-ND	5.81	5.23	4.46	200AWMSP3T2A1M6RE
	DPDT	On-On	T2	A1	M6	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2466-ND	8.20	7.39	6.29	200AWMDP1T2A1M6RE
	DPDT	On-Off-On	T2	A1	M6	R	.320 x .360 x .527 (8.13 x 9.14 x 13.39)	EG2468-ND	9.31	8.39	7.14	200AWMDP3T2A1M6RE

Actuators

T1

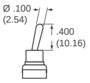

T2

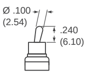

Bushings

A1

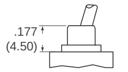

B1
B2 (Unthreaded)

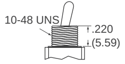

Termination Options

M1 — Eyelet Terminal

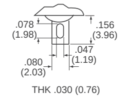

M2

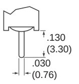

M6

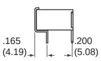

M7

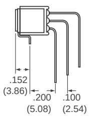

NKK® SWITCHES Fully Illuminated Toggle Switches

TL Series: Interior o-ring protects contacts from oil, dust, water, and other contaminants.
Specifications: • Power Level: 6A @ 125VAC • Electrical Life: 25,000 operations minimum • Sealing Ring: Nitrile butadiene rubber • Operating Temp: -10°C ~ 55°C • IP65 Panel seal when used with optional AT401P O-ring.

G Series: Totally sealed body construction prevents contact contamination and allows time and money saving automated soldering and washing.
Specifications: • Logic Level: 0.4VA maximum @ 28V AC/DC maximum • Electrical Life: 100,000 operations minimum • Sealing Rings: Nitrile butadiene rubber • Non-Illuminated Operating Temperature: -25°C ~ 85°C • Illuminated Operating Temperature: -25°C ~ 55°C

Fig. 1

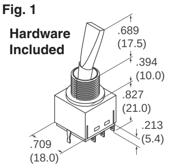

Fig. 2

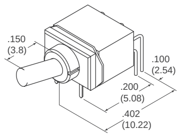

Fig. 3

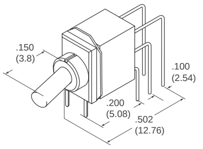

Fig. 4

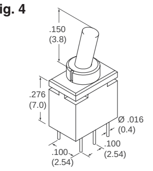

Fig.	Circuit	Switch Function	Actuator Color	Illumination Color	Termination	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
					Fully Illuminated Toggle Switches					
1	DPDT	On-On	Red	Bright Red	Solder Lug	360-1709-ND	16.17	12.94	10.25	TL22DCAW015C
	DPDT	On-On	Amber	Bright Amber	Solder Lug	360-1711-ND	16.17	12.94	10.25	TL22DDAW015D
	DPDT	On-On	Green	Bright Green	Solder Lug	360-1710-ND	16.17	12.94	10.25	TL22DFAW015F
	DPDT	On-On	Clear	Super Bright White	Solder Lug	360-1713-ND	19.80	15.84	12.54	TL22DNAW016B
	DPDT	On-On	Clear	Super Bright Blue	Solder Lug	360-1712-ND	19.80	15.84	12.54	TL22DNAW016G
	DPDT	On-On	Clear	Super Bright Green	Solder Lug	360-1714-ND	19.80	15.84	12.54	TL22DNAW016F
					Ultra-Miniature Fully Illuminated Toggle Switches					
2	SPDT	On-On	Clear	Red	Right Angle	360-1685-ND	8.70	6.96	5.51	G12JHC
	SPDT	On-On	Clear	Amber	Right Angle	360-1688-ND	8.70	6.96	5.51	G12JHD
	SPDT	On-On	Clear	Green	Right Angle	360-1691-ND	8.70	6.96	5.51	G12JHF
	SPDT	On-On	Clear	Red/Green	Right Angle	360-1694-ND	10.20	8.16	6.46	G12JHCF
	SPDT	On-Off-On	Clear	Red/Green	Right Angle	360-1697-ND	10.53	8.43	6.67	G13JHCF
	SPDT	On-On	Clear	Red	Vertical	360-1749-ND	8.70	6.96	5.51	G12JVC
3	SPDT	On-On	Clear	Amber	Vertical	360-1690-ND	8.70	6.96	5.51	G12JVD
	SPDT	On-On	Clear	Green	Vertical	360-1693-ND	8.70	6.96	5.51	G12JVF
	SPDT	On-On	Clear	Red/Green	Vertical	360-1696-ND	10.20	8.16	6.46	G12JVCF
	SPDT	On-Off-On	Clear	Red/Green	Vertical	360-1699-ND	10.53	8.43	6.67	G13JVCF
4	SPDT	On-On	Clear	Red	Straight	360-1686-ND	7.77	6.22	4.93	G12JPC
	SPDT	On-On	Clear	Amber	Straight	360-1689-ND	7.77	6.22	4.93	G12JPD
	SPDT	On-On	Clear	Green	Straight	360-1692-ND	7.77	6.22	4.93	G12JPF
	SPDT	On-On	Clear	Red/Green	Straight	360-1695-ND	9.24	7.40	5.86	G12JPCF
	SPDT	On-Off-On	Clear	Red/Green	Straight	360-1698-ND	9.57	7.66	6.07	G13JPCF
					Ultra-Miniature Non-Iluminated Toggle Switches					
2	SPDT	On-On	Gray	—	Right Angle	360-1700-ND	5.25	4.20	3.33	G12AH
	SPDT	On-Off-On	Gray	—	Right Angle	360-1703-ND	5.49	4.40	3.48	G13AH
3	SPDT	On-Off-On	Gray	—	Vertical	360-1702-ND	5.25	4.20	3.33	G12AV
4	SPDT	On-On	Gray	—	Straight	360-1701-ND	4.56	3.65	2.89	G12AP
	SPDT	On-Off-On	Gray	—	Straight	360-1704-ND	4.80	3.84	3.04	G13AP
					Accessories					
—	Panel Seal O-Ring for TL Toggles					360-1719-ND	.63	.51	.40	AT401P

Miniature Toggle Switches

M Series: Over 350,000 different configurations possible, with the most popular listed here. Epoxy sealed terminals, high torque bushings, anti-jamming levers. Available as PCB mount or solder lug terminal for ease of wiring. • **Dielectric strength:** 1,500VAC minimum • **Mechanical Life:** 100,000 operations minimum, 50,000 operations minimum for flat and locking lever. • **Electrical Life:** 25,000 operations minimum • **Operating Temperature:** -30°C ~ 85°C • **Angle of Throw:** 25° • **Standard Hardware:** 2 hex nuts, 1 locking ring, 1 lockwasher

Fig. 1

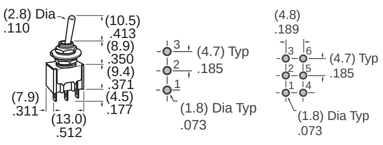

(SPDT Shown) (SPDT) (DPDT)

Fig. 2

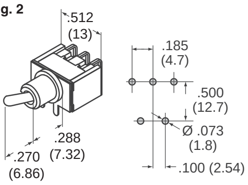

(DPDT Shown)

Fig. 3

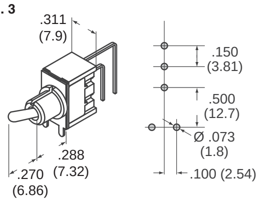

Fig. 4

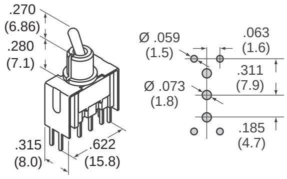

Bushings

A1

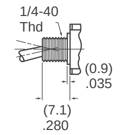

(Short Bushing)

A2

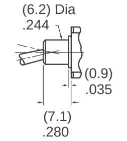

(Unthreaded)

B1

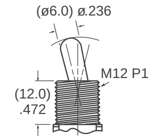

(Large)

D3

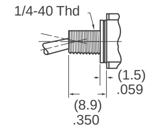

(Splashproof)

L1

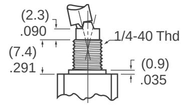

(Locking)

S1

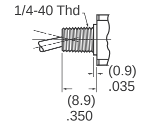

(Standard)

Actuators

S

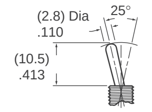

(Standard)

B

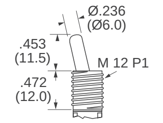

(Large)

E

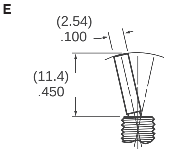

(Flat)

S2

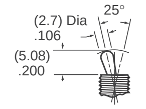

(Mini)

B2

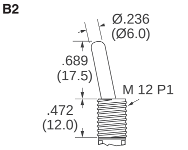

(Long Large)

L

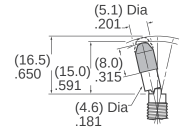

(Locking)

Circuit	Switching Function	Options Act-uator	Options Bush-ing	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	NKK Part No.
Fig. 1 – Solder Lug 6A Silver Contacts								
SPDT	On-On	B	B1	360-1029-ND	6.84	5.48	4.34	M2012BB1W01
SPDT	On-Off-On	B	B1	360-1030-ND	7.56	6.05	4.79	M2013BB1W01
SPDT	On-Off-Mom	B	B1	360-1033-ND	8.28	6.63	5.25	M2019BB1W01
SPDT	On-On	B2	B1	360-1038-ND	7.08	5.67	4.49	M2012B2B1W01
SPDT	On-Off-On	B2	B1	360-1039-ND	7.80	6.24	4.94	M2013B2B1W01
SPDT	Mom-Off-Mom	B2	B1	360-1040-ND	8.52	6.82	5.40	M2018B2B1W01
SPDT	On-On	E	S1	360-1043-ND	5.40	4.32	3.42	M2012ES1W01
SPDT	On-Off-On	E	S1	360-1044-ND	6.12	4.90	3.88	M2013ES1W01
SPDT	On-Mom	E	S1	360-1045-ND	6.72	5.38	4.26	M2015ES1W01
SPDT	Mom-Off-Mom	E	S1	360-1046-ND	6.84	5.48	4.34	M2018ES1W01
SPDT	On-Off-Mom	E	S1	360-1047-ND	6.84	5.48	4.34	M2019ES1W01
SPDT	On-On	S	S1	360-1057-ND	4.20	3.36	2.66	M2012SS1W01
SPDT	On-Off-On	S	S1	360-1058-ND	4.92	3.94	3.12	M2013SS1W01
SPDT	On-Mom	S	S1	360-1059-ND	5.52	4.42	3.50	M2015SS1W01
SPDT	Mom-Off-Mom	S	S1	360-1060-ND	5.64	4.52	3.58	M2018SS1W01
SPDT	On-Off-Mom	S	S1	360-1061-ND	5.64	4.52	3.58	M2019SS1W01
SPDT	On-On	S	D3	360-1088-ND	5.40	4.32	3.42	M2012SD3W01
SPDT	On-Off-On	S	D3	360-1089-ND	6.12	4.90	3.88	M2013SD3W01
SPDT	On-Mom	S	D3	360-1090-ND	6.72	5.38	4.26	M2015SD3W01
SPDT	Mom-Off-Mom	S	D3	360-1091-ND	6.84	5.48	4.34	M2018SD3W01
SPDT	On-Off-Mom	S	D3	360-1092-ND	6.84	5.48	4.34	M2019SD3W01
DPDT	On-On	S	D3	360-1093-ND	7.50	6.00	4.75	M2022SD3W01
SPDT	On-On	S2	A1	360-1155-ND	4.20	3.36	2.66	M2012S2A1W01
SPDT	On-On	S2	S1	360-1172-ND	4.20	3.36	2.66	M2047SS1W01
SP3T	On-On-On	E	S1	360-1048-ND†	10.20	8.16	6.46	M2024ES1W01
SP3T	On-On-On	S	S1	360-1062-ND†	9.00	7.20	5.70	M2024SS1W01
DPDT	On-On	B	B1	360-1034-ND	8.94	7.16	5.67	M2022BB1W01
DPDT	On-Off-On	B	B1	360-1035-ND	9.96	7.97	6.31	M2023BB1W01
DPDT	On-On	B2	B1	360-1041-ND	9.18	7.35	5.82	M2022B2B1W01
DPDT	On-Off-On	B2	B1	360-1042-ND	10.20	8.16	6.46	M2023B2B1W01
DPDT	On-On	E	S1	360-1049-ND	7.50	6.00	4.75	M2022ES1W01
DPDT	On-Off-On	E	S1	360-1050-ND	8.52	6.82	5.40	M2023ES1W01
DPDT	On-Mom	E	S1	360-1051-ND	9.60	7.68	6.08	M2025ES1W01
DPDT	On-Off-Mom	E	S1	360-1052-ND	9.96	7.97	6.31	M2029ES1W01
DPDT	On-On	S	S1	360-1065-ND	6.30	5.04	3.99	M2022SS1W01
DPDT	On-Off-On	S	S1	360-1066-ND	7.32	5.86	4.64	M2023SS1W01
DPDT	On-Mom	S	S1	360-1067-ND	8.40	6.72	5.32	M2025SS1W01
DPDT	Mom-Off-Mom	S	S1	360-1068-ND	8.76	7.01	5.55	M2028SS1W01
DPDT	On-Off-Mom	S	S1	360-1069-ND	8.76	7.01	5.55	M2029SS1W01
DPDT	On-Off-On	S	D3	360-1094-ND	8.52	6.82	5.40	M2023SD3W01
DPDT	Mom-Off-Mom	S	D3	360-1095-ND	9.96	7.97	6.31	M2028SD3W01
DPDT	On-On	L	L1	360-1101-ND	9.39	7.52	5.95	M2022LL1W01
DPDT	On-Off-On	L	L1	360-1102-ND	10.41	8.33	6.60	M2023LL1W01
DPDT	On-On	S2	A1	360-1156-ND	6.30	5.04	3.99	M2022S2A1W01
DP3T	On-On-On	S	S1	360-1070-ND††	21.00	16.80	13.30	M2044SS1W01
3PDT	On-On	B	B1	360-1036-ND	13.14	10.52	8.33	M2032BB1W01
3PDT	On-On	E	S1	360-1053-ND	11.70	9.36	7.41	M2032ES1W01
3PDT	On-Off-On	E	S1	360-1054-ND	14.40	11.52	9.12	M2033ES1W01
3PDT	On-On	S	S1	360-1073-ND	10.50	8.40	6.65	M2032SS1W01
3PDT	On-Off-On	S	S1	360-1074-ND	13.20	10.56	8.36	M2033SS1W01
3PDT	Mom-Off-Mom	S	S1	360-1075-ND	16.20	12.96	10.26	M2038SS1W01
3PDT	On-On	L	L1	360-1103-ND	13.59	10.88	8.61	M2032LL1W01
3PDT	On-Off-On	L	L1	360-1104-ND	16.29	13.04	10.32	M2033LL1W01
4PDT	On-On	E	S1	360-1055-ND	15.66	12.53	9.92	M2042ES1W01
4PDT	On-On	S	S1	360-1076-ND	14.46	11.57	9.16	M2042SS1W01
4PDT	On-Off-On	S	S1	360-1077-ND	17.28	13.83	10.95	M2043SS1W01
4PDT	On-On	L	L1	360-1105-ND	17.55	14.04	11.12	M2042LL1W01
Fig. 1– Solder Lug .4VA Gold Contacts								
SPDT	On-On	B2	B1	360-1108-ND	7.74	6.20	4.91	M2012B2B1G01
DPDT	On-On	B2	B1	360-1109-ND	10.47	8.38	6.64	M2022B2B1G01
SPDT	On-On	E	S1	360-1110-ND	6.06	4.85	3.84	M2012ES1G01
SPDT	On-Off-On	E	S1	360-1111-ND	6.78	5.43	4.30	M2013ES1G01
SPDT	On-On	S	S1	360-1118-ND	4.86	3.89	3.08	M2012SS1G01
SPDT	On-Off-On	S	S1	360-1119-ND	5.58	4.47	3.54	M2013SS1G01
SPDT	On-Mom	S	S1	360-1120-ND	6.18	4.95	3.92	M2015SS1G01
SPDT	Mom-Off-Mom	S	S1	360-1121-ND	6.30	5.04	3.99	M2018SS1G01
SPDT	On-Off-Mom	S	S1	360-1122-ND	6.30	5.04	3.99	M2019SS1G01
SPDT	On-On	S	D3	360-1140-ND	6.06	4.85	3.84	M2012SD3G01
SPDT	On-Off-On	S	D3	360-1141-ND	6.78	5.43	4.30	M2013SD3G01
SPDT	Mom-Off-Mom	S	D3	360-1143-ND	7.50	6.00	4.75	M2018SD3G01
SPDT	On-On	L	L1	360-1145-ND	7.95	6.36	5.04	M2012LL1G01
SPDT	On-Off-On	L	L1	360-1146-ND	8.67	6.94	5.50	M2013LL1G01
SPDT	On-Mom	L	L1	360-1147-ND	9.27	7.42	5.88	M2015LL1G01
SP3T	On-On-On	E	S1	360-1112-ND†	11.49	9.20	7.28	M2024ES1G01
DPDT	On-On	E	S1	360-1113-ND	8.79	7.04	5.57	M2022ES1G01
DPDT	On-Off-On	E	S1	360-1114-ND	9.81	7.85	6.22	M2023ES1G01
SP3T	On-On-On	S	S1	360-1123-ND†	10.29	8.24	6.52	M2024SS1G01
DPDT	On-On	S	S1	360-1126-ND	7.59	6.08	4.81	M2022SS1G01
DPDT	On-On	S	D3	360-1144-ND	8.79	7.04	5.57	M2022SD3G01
3PDT	On-On	E	S1	360-1115-ND	13.65	10.92	8.65	M2032ES1G01
3PDT	On-On	S	S1	360-1128-ND	12.45	9.96	7.89	M2032SS1G01
4PDT	On-On	S	S1	360-1129-ND	17.04	13.64	10.80	M2042SS1G01

† SP3T uses a Dp Body †† DP3T uses a 4p Body

(Continued)

Miniature Toggle Switches *(Cont.)*

Circuit	Switching Function	Options Act-uator	Options Bush-ing	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Fig. 1 PC Terminal 6A Silver Contacts								
SPDT	On-On	S	S1	360-1078-ND	4.35	3.48	2.76	M2012SS1W03
SPDT	On-Off-On	S	S1	360-1079-ND	5.07	4.06	3.22	M2013SS1W03
SPDT	On-Mom	S	S1	360-1080-ND	5.67	4.54	3.60	M2015SS1W03
SPDT	Mom-Off-Mom	S	S1	360-1081-ND	5.79	4.64	3.67	M2018SS1W03
SPDT	On-Off-Mom	S	S1	360-1082-ND	5.79	4.64	3.67	M2019SS1W03
SPDT	On-On	E	S1	360-1150-ND	5.55	4.44	3.52	M2012ES1W03
SPDT	On-Off-On	E	S1	360-1151-ND	6.27	5.02	3.98	M2013ES1W03
SPDT	Mom-Off-Mom	E	S1	360-1152-ND	6.99	5.60	4.43	M2018ES1W03
SPDT	On-On	S2	A1	360-1157-ND	4.35	3.48	2.76	M2012S2A1W03
SP3T	On-Off-On	S	S1	360-1083-ND†	9.30	7.44	5.89	M2024SS1W03
DPDT	On-On	S	S1	360-1084-ND	6.60	5.28	4.18	M2022SS1W03
DPDT	On-Off-On	S	S1	360-1085-ND	7.62	6.10	4.83	M2023SS1W03
3PDT	On-On	S	S1	360-1086-ND	10.92	8.74	6.92	M2032SS1W03
4PDT	On-On	S	S1	360-1087-ND	15.03	12.03	9.52	M2042SS1W03
Fig. 1 PC Terminal .4VA Gold Contacts								
SPDT	On-On	S	S1	360-1130-ND	4.98	3.99	3.16	M2012SS1G03
SPDT	On-Mom	S	S1	360-1132-ND	6.30	5.04	3.99	M2015SS1G03
SPDT	Mom-Off-Mom	S	S1	360-1133-ND	6.42	5.14	4.07	M2018SS1G03
SPDT	On-Off-Mom	S	S1	360-1134-ND	6.42	5.14	4.07	M2019SS1G03
SP3T	On-On-On	S	S1	360-1135-ND†	10.59	8.48	6.71	M2024SS1G03
DPDT	On-On	S	S1	360-1136-ND	7.89	6.32	5.00	M2022SS1G03
DPDT	On-Off-On	S	S1	360-1137-ND	8.91	7.13	5.65	M2023SS1G03
3PDT	On-On	S	S1	360-1138-ND	12.87	10.30	8.16	M2032SS1G03
4PDT	On-On	S	S1	360-1139-ND	17.64	14.12	11.18	M2042SS1G03
Fig. 2 – Right Angle PC Terminal 6A Silver Contacts								
SPDT	On-On	S2	A2	360-1170-ND	4.98	3.99	3.16	M2012S2A2W30
DPDT	On-On	S2	A2	360-1171-ND	7.83	6.27	4.96	M2022S2A2W30
Fig. 2 – Right Angle PC Terminal .4VA Gold Contacts								
SPDT	On-On	S	A2	360-1153-ND	5.64	4.52	3.58	M2012SA2G30
SPDT	On-On	S2	A2	360-1159-ND	5.64	4.52	3.58	M2012S2A2G30

Circuit	Switching Function	Options Act-uator	Options Bush-ing	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
SPDT	On-Off-On	S2	A2	360-1160-ND	6.36	5.09	4.03	M2013S2A2G30
SPDT	Mom-Off-Mom	S2	A2	360-1161-ND	7.08	5.67	4.49	M2018S2A2G30
DPDT	On-On	S2	A2	360-1163-ND	9.12	7.30	5.78	M2022S2A2G30
3PDT	On-On	S2	A2	360-1164-ND	14.82	11.86	9.39	M2032S2A2G30
Fig. 3 – Vertical Right Angle PC Terminal .4VA Gold Contacts								
SPDT	On-On	S2	A2	360-1165-ND	5.94	4.76	3.77	M2012S2A2G40
SPDT	On-Off-On	S2	A2	360-1166-ND	6.66	5.33	4.22	M2013S2A2G40
SPDT	On-Off-Mom	S2	A2	360-1167-ND	7.38	5.91	4.68	M2019S2A2G40
DPDT	On-On	S2	A2	360-1168-ND	9.81	7.85	6.22	M2022S2A2G40
Fig. 4 – Vertical Bracket PC Terminal 6A Silver Contacts								
SPDT	On-On	S2	A2	360-1169-ND	4.65	3.72	2.95	M2012S2A2W13
Fig. 4 – Vertical Bracket PC Terminal .4VA Gold Contacts								
SPDT	On-On	S2	A2	360-1158-ND	5.31	4.25	3.37	M2012S2A2G13
Fig. 1 – Locking Lever, Threaded Bushing, Solder Lug –6A								
SPDT	On-On	L	L1	360-1096-ND	7.29	5.84	4.62	M2012LL1W01
SPDT	On-Off-On	L	L1	360-1097-ND	8.01	6.41	5.08	M2013LL1W01
SPDT	On-Mom	L	L1	360-1098-ND	8.61	6.89	5.46	M2015LL1W01
Fig. 1 – Locking Lever, Threaded Bushing, Solder Lug –.4VA								
DPDT	On-On	L	L1	360-1149-ND	10.68	8.55	6.77	M2022LL1G01
Splashproof Boots								
Black for 1/4-40 Thd Bushing and .413" (10.49mm) Bat Height				360-1750-ND	3.12	2.50	1.98	AT428H
Gray for M12 Bushing and .689" (17.50mm) Bat Height				360-1706-ND	4.08	3.27	2.59	AT402H
Red for M12 Bushing and .689" (17.50mm) Bat Height				360-1707-ND	4.08	3.27	2.59	AT402C
Yellow for M12 Bushing and .689" (17.50mm) Bat Height				360-1708-ND	4.08	3.27	2.59	AT402E

† SP3T uses a Dp Body †† DP3T uses a 4p Body

Sealed Miniature Toggle Switches

M2T Series: Interior bushing is sealed with o-ring which surrounds the actuator. Bushing and top of the housing are one molded piece, achieving the exterior seal. Ultrasonic welding is used to seal the bushing unit to the base. Terminals are epoxy sealed for safeguarding the switch at the base.

Features: • **Electrical Capacity:** Logic Level (code G): 0.4VA maximum @ 28V AC/DC maximum. • **Dielectric Strength:** 1,000VAC minimum between contacts; 1,500VAC minimum between contacts and case. • **Mechanical Life:** 100,000 operations minimum • **Electrical Life:** 50,000 operations minimum for gold; 25,000 operations minimum for silver • **Operating Temperature Range:** -30°C ~ 85°C

B Series: Sealed body construction permits switches to be subjected to time- and money-saving automated soldering techniques. Can be safely cleaned of flux without fear of compromising operating characteristics.

Features: • **Electrical Capacity:** Logic Level: 0.4VA maximum @ 28V AC/DC maximum • **Dielectric Strength:** 500VAC minimum • **Mechanical Life:** 100,000 operations minimum for On-On and On-Off-On • **Electrical Life:** 50,000 operations minimum • **Operating Temperature Range:** -30°C ~ 85°C

Fig. 1

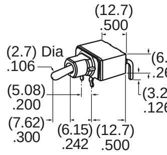

Fig. 2

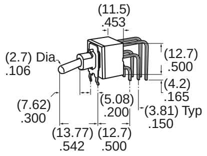

Fig. 3

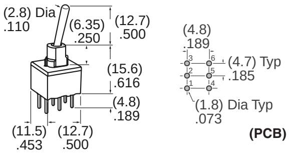

Fig. 4

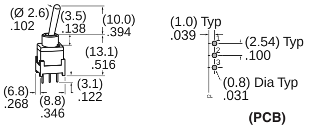

Fig. 5

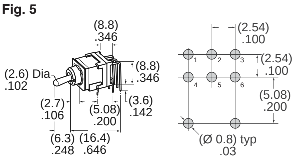

Fig. 6

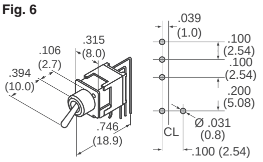

Fig. 7

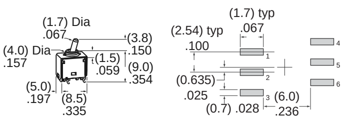

Fig. 8

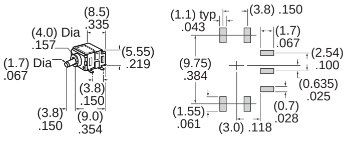

Fig.	Circuit	Switching Function	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Washable Mini Toggle Switches							
1	SPDT	On-On	360-1173-ND	5.82	4.66	3.69	M2T12S4A5G30
	SPDT	On-Off-On	360-1174-ND	6.36	5.09	4.03	M2T13S4A5G30
	SPDT	Mom-Off-Mom	360-1175-ND	7.02	5.62	4.45	M2T18S4A5G30
	SPDT	On-On	360-1184-ND*	5.82	4.66	3.69	M2T12SA5G30
	SPDT	On-On	360-1180-ND	5.16	4.13	3.27	M2T12SA5G03
	SPDT	On-Off-On	360-1181-ND	5.70	4.56	3.61	M2T13SA5G03
2	SPDT	On-On	360-1176-ND	6.12	4.90	3.88	M2T12S4A5G40
	SPDT	On-Off-On	360-1177-ND	6.66	5.33	4.22	M2T13S4A5G40
	SPDT	On-Off-On	360-1178-ND	7.32	5.86	4.64	M2T13S4A5G40
3	DPDT	On-On	360-1179-ND	9.99	8.00	6.33	M2T22S4A5G40
	SPDT	Mom-Off-Mom	360-1182-ND	6.36	5.09	4.03	M2T18SA5G03
	DPDT	On-On	360-1183-ND	8.07	6.46	5.12	M2T22SA5G03
Washable Sub-Mini Antistatic Toggle Switches							
4	SPDT	On-On	360-1012-ND	4.20	3.36	2.66	B12AP
	SPDT	On-Off-On	360-1013-ND	4.38	3.51	2.78	B13AP
	SPDT	On-Mom	360-1014-ND	4.50	3.60	2.85	B15AP
	DPDT	On-On	360-1015-ND	5.46	4.37	3.46	B22AP
	DPDT	On-Off-On	360-1016-ND	5.88	4.71	3.73	B23AP

Fig.	Circuit	Switching Function	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
4	SPDT	On-On	360-1017-ND◊	4.56	3.65	2.89	B12JB
5	SPDT	On-On	360-1018-ND	4.92	3.94	3.12	B12JH
	SPDT	On-Off-On	360-1019-ND	5.10	4.08	3.23	B13JH
	SPDT	On-Mom	360-1020-ND	5.22	4.18	3.31	B15JH
	DPDT	On-On	360-1021-ND	6.54	5.24	4.15	B22JH
	DPDT	On-Off-On	360-1022-ND	6.96	5.57	4.41	B23JH
6	SPDT	On-On	360-1023-ND	4.92	3.94	3.12	B12JV
Washable Ultra Mini SMT Toggle Switches							
7	SPDT	On-On	360-1026-ND	5.70	4.56	3.61	G3T12AP
	SPDT	On-Off-On	360-1027-ND	6.12	4.90	3.88	G3T13AP
	DPDT	On-On	360-1028-ND	7.62	6.10	4.83	G3T22AP

Fig.	Circuit	Switching Function	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Digi-Key Part No.	Tape & Reel Pricing 500	NKK Part No.
Washable Ultra-Miniature SMT Toggle Switch									
8	SPDT	On-On	360-1024-1-ND	6.00	4.80	3.80	360-1024-2-ND	1400.00	G3T12AH-R
	SPDT	On-Off-On	360-1025-1-ND	6.42	5.14	4.07	360-1025-2-ND	1498.00	G3T13AH-R

* Actual Length .500" ◊ Actual Length .248"

NKK® SWITCHES

Power Toggle Switches

NKK offers one of the most extensive line of power toggle switches. Standard switching currents of 15, 25 and 30 Amps. Locking lever type is ideal for preventing accidental switching, lever must be pulled out then switched. All toggles come complete with mounting hardware. **Dielectric Strength:** 2000V AV minimum **Mechanical Life:** 50,000 operations minimum **Operating Temperature:** -10°C ~ 70°C

Fig. 1 — Solder Term.

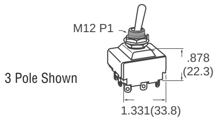

Fig. 2 — QC Term.

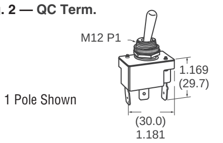

Fig. 3 — Locking Lever

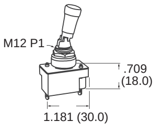

Fig. 4 — Screw Term.

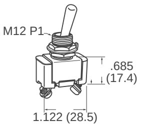

Fig. 5

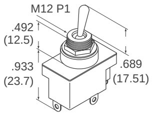

Fig. 6 — HD Screw Term.

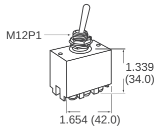

Fig. 7

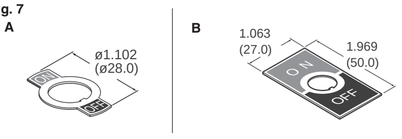

Red/Black Background with "ON" and "OFF" in White Lettering

Fig. 8

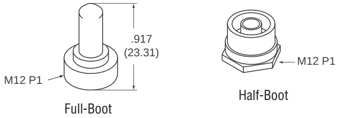

Fig.	Circuit	Function	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Medium and High Capacity, Solder Lug								
1	SPST	On-Off	15A	360-1185-ND*	5.55	4.44	3.52	S301
	SPDT	On-On	15A	360-1186-ND*	5.55	4.44	3.52	S302
	SPDT	On-Off-On	15A	360-1187-ND*	6.00	4.80	3.80	S303
	SPDT	On-Mom	15A	360-1188-ND‡	6.15	4.92	3.90	S305
	SPDT	Mom-Off-Mom	15A	360-1189-ND‡	6.27	5.02	3.98	S308
	SPDT	On-Off-Mom	15A	360-1190-ND‡	6.48	5.19	4.11	S309
	DPST	On-Off	25A	360-1191-ND*	8.37	6.70	5.31	S331
	DPDT	On-On	25A	360-1192-ND*	8.37	6.70	5.31	S332
	DPDT	On-Off-On	25A	360-1193-ND*	9.78	7.83	6.20	S333
	DPDT	On-Mom	15A	360-1194-ND*	9.87	7.90	6.26	S335
	DPDT	Mom-Off-Mom	15A	360-1195-ND†	10.74	8.60	6.81	S338
	DPDT	On-Off-Mom	15A	360-1196-ND†	10.74	8.60	6.81	S339
	3PST	On-Off	25A	360-1197-ND‡	11.82	9.46	7.49	S31
	3PDT	On-On	25A	360-1198-ND‡	12.15	9.72	7.70	S32
	3PDT	On-Off-On	25A	360-1199-ND‡	13.11	10.49	8.31	S33
	3PDT	On-Mom	15A	360-1200-ND*	13.11	10.49	8.31	S35
	3PDT	Mom-Off-Mom	15A	360-1201-ND*	13.11	10.49	8.31	S38
	4PST	On-Off	25A	360-1202-ND‡	13.98	11.19	8.86	S41
	4PDT	On-On	25A	360-1203-ND‡	13.98	11.19	8.86	S42
	4PDT	On-Off-On	25A	360-1204-ND‡	15.06	12.05	9.54	S43
	4PDT	On-Mom	15A	360-1205-ND†	15.06	12.05	9.54	S45
Medium and High Capacity, .250" (6.35mm) Quick Connect								
2	SPST	On-Off	15A	360-1206-ND	4.80	3.84	3.04	S1F
	SPDT	On-On	15A	360-1207-ND	5.61	4.49	3.56	S2F
	SPDT	On-Off-On	15A	360-1208-ND	5.82	4.66	3.69	S3F
	DPST	On-Off	15A	360-1209-ND	7.02	5.62	4.45	S21F
	DPDT	On-On	20A	360-1210-ND	8.58	6.87	5.44	S6F
	DPDT	On-Off-On	20A	360-1211-ND	8.64	6.92	5.48	S7F
	3PST	On-Off	25A	360-1212-ND‡	12.75	10.20	8.08	S31F
	3PDT	On-On	25A	360-1213-ND‡	13.11	10.49	8.31	S32F
	3PDT	On-Off-On	25A	360-1214-ND‡	14.04	11.24	8.90	S33F
	4PST	On-Off	25A	360-1215-ND†	14.79	11.84	9.37	S41F
	4PDT	On-On	25A	360-1216-ND†	15.18	12.15	9.62	S42F
	4PDT	On-Off-On	25A	360-1217-ND†	16.26	13.01	10.30	S43F
Medium Capacity, Solder Lug, Locking Lever with Panel Seal								
3	SPST	On-Off	15A	360-1218-ND	15.39	12.32	9.75	S1AL
	SPDT	On-On	15A	360-1219-ND	17.04	13.64	10.80	S2AL
	SPDT	On-Off-On	15A	360-1220-ND	17.40	13.92	11.02	S3AL
	DPDT	On-On	20A	360-1221-ND	20.40	16.32	12.92	S6AL
	DPDT	On-Off-On	20A	360-1222-ND	20.55	16.44	13.02	S7AL

Fig.	Circuit	Function	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Medium Capacity, Screw Lug								
4	SPST	On-Off	15A	360-1223-ND*	6.09	4.88	3.86	S301T
	SPDT	On-On	15A	360-1224-ND*	6.27	5.02	3.98	S302T
	SPDT	On-Off-On	15A	360-1225-ND*	6.63	5.31	4.20	S303T
	SPDT	On-Mom	15A	360-1226-ND‡	6.48	5.19	4.11	S305T
	SPDT	Mom-Off-Mom	15A	360-1227-ND‡	7.17	5.74	4.55	S308T
	SPDT	On-Off-Mom	15A	360-1228-ND‡	7.17	5.74	4.55	S309T
	DPST	On-Off	15A	360-1229-ND†	9.33	7.47	5.91	S331T
	DPDT	On-On	15A	360-1230-ND†	9.78	7.83	6.20	S332T
	DPDT	On-Off-On	15A	360-1231-ND†	11.01	8.81	6.98	S333T
	DPDT	On-Mom	15A	360-1232-ND†	11.28	9.03	7.15	S335T
	DPDT	On-Off-Mom	15A	360-1234-ND†	12.15	9.72	7.70	S339T
Medium Capacity, Solder Lug with Panel Seal								
5	SPST	On-Off	15A	360-1737-ND	8.51	7.70	6.69	S1AW
	SPDT	On-On	15A	360-1738-ND	9.24	8.36	7.26	S2AW
	SPDT	On-Off-On	15A	360-1739-ND	9.72	8.80	7.64	S3AW
	SPDT	On-Mom	15A	360-1740-ND	8.82	7.98	6.93	S5AW
	SPDT	Mom-Off-Mom	15A	360-1741-ND	9.30	8.42	7.31	S8AW
	SPDT	On-Off-Mom	15A	360-1742-ND	9.30	8.42	7.31	S9AW
	DPDT	On-On	20A	360-1744-ND	12.03	10.89	9.46	S6AW
	DPDT	On-Off-On	20A	360-1745-ND	12.08	10.93	9.49	S7AW
	DPST	On-Off	15A	360-1743-ND	10.67	9.66	8.39	S21AW
	DPDT	On-Mom	15A	360-1746-ND	12.08	10.93	9.49	S25AW
	DPDT	Mom-Off-Mom	15A	360-1747-ND	12.56	11.37	9.87	S28AW
	DPDT	On-Off-Mom	15A	360-1748-ND	12.56	11.37	9.87	S29AW
High Capacity, Screw Lug								
6	DPST	On-Off	30A	360-1235-ND*	21.95	19.86	17.25	S821
	DPDT	On-On	30A	360-1236-ND*	22.79	20.62	17.91	S822
	DPDT	On-Off-On	30A	360-1237-ND*	22.58	20.43	17.74	S823
	3PST	On-Off	30A	360-1238-ND*	32.30	29.23	25.38	S831
	3PDT	On-On	30A	360-1239-ND*	38.96	35.25	30.61	S832
	3PDT	On-Off-On	30A	360-1240-ND*	39.02	35.31	30.66	S833
	DPDT	On-On	50A	360-1241-ND	52.82	47.79	41.50	S732
Power Toggle Accessories								
7A	On-Off-Plate, 12mm, Nickel, Brass			360-1001-ND	.72	.58	.46	AT201
7B	On-Off-Plate, 12mm, Red/Black			360-1002-ND	2.16	1.73	1.37	AT202
7A	On-Off-Plate, 12mm, Red/Black			360-1003-ND	2.16	1.73	1.37	AT214
8	Splashproof Half-Boot , Black			360-1605-ND	3.12	2.50	1.98	AT401
	Splashproof Full-Boot, Black			360-1606-ND	4.08	3.27	2.59	AT402A

* UL/CSA † UL ‡ CSA

Environmentally Sealed Switches *For use in outdoor or harsh applications.*

Features:

- Sealing at front and back panel meets IP67 and IP60 of IEC60529 Standards.
- Single unit construction of bushing and case gives added protection from environmental elements.
- Antijamming design protects contacts from damage due to excessive downward force on the toggle.
- Specially designed contact mechanism for breaking light contact welds.
- Minimal contact bounce achieved with designed interlocked switching mechanism.

Specifications:

- **Electrical Capacity:** 10A @ 125VAC or 6A @ 250VAC or 10A @ 30VDC
- **Dielectric Strength:** 1,500VAC minimum
- **Mechanical Life:** 30,000 operations minimum
- **Electrical Life:** 15,000 operations minimum
- **Operating Temperature:** –30°C ~ 70°C
- **Angle of Throw:** 24°
- **Panel Thickness:** .157"
- **Standard Hardware:** 1 hex nut, 1 locking ring, 1 O-ring

Fig. 1 — Toggle - Solder Terminal

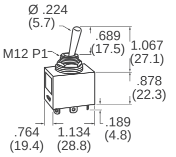

Fig. 2 — Toggle - Screw Terminal

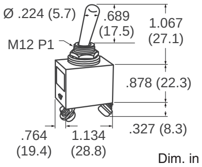

Dim. in (mm) Inch

Fig.	Switching Circuit	Function	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Sealed Toggle — 10A							
1	SPST	On-Off	360-1242-ND	10.50	9.50	8.25	WT11S
2	SPST	On-Off	360-1243-ND	11.24	10.17	8.83	WT11T
1	SPDT	On-On	360-1245-ND	11.13	10.07	8.75	WT12S
2	SPDT	On-On	360-1246-ND	11.87	10.74	9.33	WT12T
1	SPDT	On-Off-On	360-1248-ND	11.72	10.61	9.21	WT13S
2	SPDT	On-Off-On	360-1249-ND	12.45	11.27	9.79	WT13T
1	DPST	On-Off	360-1251-ND	15.39	13.93	12.10	WT21S
2	DPST	On-Off	360-1252-ND	16.86	15.26	13.25	WT21T
1	DPDT	On-On	360-1254-ND	16.02	14.50	12.59	WT22S
2	DPDT	On-On	360-1255-ND	17.49	15.83	13.75	WT22T
1	DPDT	On-Off-On	360-1257-ND	17.43	15.77	13.70	WT23S
2	DPDT	On-Off-On	360-1258-ND	18.90	17.10	14.85	WT23T

S=Solder Lug T=Screw Lug

Carling Technologies™

Power Toggle Switches

General purpose workhorses with options tailored to meet most any need. International approvals, and circuit choices easily integrates into a variety of different applications. The F-Series has a storied history in the Marine, Food Service, Generator, Industrial Control, and Office Automation markets and is appropriate for usage in low voltage DC applications as well. Hardware included.
Operating Temperature: 0°F ~ 150°F (G-Series 85°C) **Thread:** 15/32 - 32UNS - 2A

Fig. 1

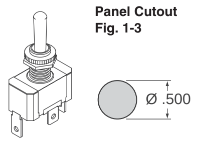

Fig. 2

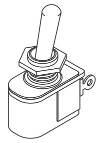

Fig. 3

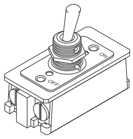

Fig.	Circuit	Function	Terminals	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	25	50	Carling Tech. Part No.
1	SPST	On-Off	.250” QC	15A	432-1074-ND	3.84	2.07	1.48	2FA53-73/TABS
	SPST	On-Off	Screw	15A	432-1075-ND	4.42	2.38	1.70	2FA54-73
	SPDT	On-On	.250” QC	15A	432-1076-ND	4.75	2.56	1.83	2FB53-73/TABS
	SPDT	On-Off-On	.250” QC	15A	432-1077-ND	4.75	2.56	1.83	2FC53-73/TABS
	SPDT	On-Off-On	Screw	15A	432-1078-ND	5.56	3.00	2.14	2FC54-73
	SPDT	Mom-Off-Mom	Screw	15A	432-1079-ND	7.74	4.17	2.98	6FC54-73
	DPST	On-Off	.250” QC	15A	432-1080-ND	6.08	3.28	2.34	2GK51-73
	DPST	On-Off	Screw	15A	432-1081-ND	7.22	3.89	2.78	2GK54-73
	DPDT	On-On	Screw	15A	432-1082-ND	8.94	4.82	3.44	2GL54-73
	DPDT	On-Off-On	.250” QC	15A	432-1083-ND	7.28	3.92	2.80	2GM51-73
	DPDT	On-Off-On	Screw	15A	432-1084-ND	8.94	4.82	3.44	2GM54-73
	3PST	On-Off	Screw	15A	432-1085-ND	13.23	7.13	5.09	HK254-73
2	SPST	On-Off	Solder Lug	6A	432-1216-ND	5.92	3.19	2.28	110-73
	SPST	On-Off	Screw	6A	432-1217-ND	5.92	3.19	2.28	110-S-73
	SPST	On-Off	6” Wire Lead	6A	432-1086-ND	6.34	3.42	2.44	111-16-73
3	DPST	On-Off	Screw	16A	432-1087-ND	9.17	4.94	3.53	DK284-73

Power Pushbutton Switches

Rugged metal construction, self cleaning contacts and stiff actuation force have made these switches a pillar in the music industry and audiovisual markets. High amperage combined with a low profile makes these switches ideal for “foot-pedal” applications. Hardware included.
Operating Temperature: 32°F ~ 185°F (P Series 0°C ~ 85°C) **Thread:** 15/32 - 32UNS - 2A

Fig. 1

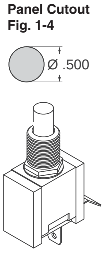

Fig. 2

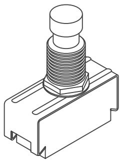

Fig. 3

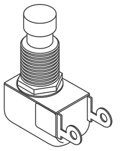

Fig. 4

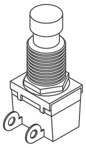

Fig.	Circuit	Function	Terminals	Switch Current (125VAC)	Digi-Key Part No.	Price Each 1	25	50	Carling Tech. Part No.
1	SPST	On-Off	.250” QC	20A	432-1205-ND	9.46	5.10	3.64	PA301
	SPST	On-Off	Screw	20A	432-1206-ND	10.14	5.46	3.90	PA304
2	SPST	On-Mom	Screw	15A	432-1207-ND	8.71	4.69	3.35	170
	SPST	Off-Mom	Screw	15A	432-1208-ND	8.71	4.69	3.35	172
3	SPST	On-Off	Solder Lug	6A	432-1209-ND	7.87	4.24	3.03	110-P
	SPST	On-Off	Screw	6A	432-1210-ND	8.16	4.40	3.14	110-SP
	SPDT	On-On	Solder Lug	3A	432-1211-ND	12.45	6.71	4.79	112-P
4	SPST	On-Off	Solder Lug	5A	432-1212-ND	5.79	3.12	2.23	64111210
	SPDT	On-On	Solder Lug	5A	432-1213-ND	8.42	4.54	3.24	64111220
	DPST	On-Off	Solder Lug	5A	432-1214-ND	9.85	5.31	3.79	64112210
	DPDT	On-On	Solder Lug	5A	432-1215-ND	14.01	7.55	5.39	64112220

Contura II Sealed Rocker Switches

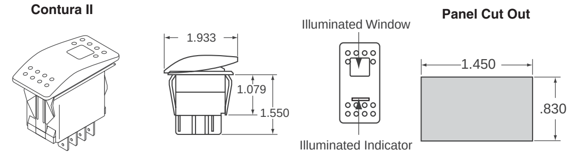

1 Position Panel Bracket

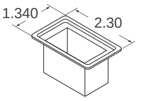

3 Position Panel Bracket

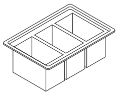

Stacking Panel Bracket

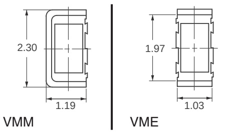

The V Series Contura II switches have been the benchmark sealed rocker switch for years. The Contura II is constructed of thermoplastic polycarbonate with a nylon 66 surface overlay and dual seal protection out to IP66/IP68 standards. Illuminated versions are superbright 12V LED for long life, .250” QC terminals for easy wiring to switch.
Specifications: • Actuator Type: Contour Rocker • Ratings: 20A @ 12VDC • Contacts: Silver Cad-Oxide • Dielectric Strength: 1500V RMS • Life: 50-100K cycles depending on circuit • Terminals: .250”QC • Lighting: LED-Rated for 100K hours for half life
Terminals to be used with connector housing are 14-18AWG 42100-1, 18-22AWG 60295-2

Circuit	Function	Features	Actuator Color	Digi-Key Part No.	Price Each 1	25	50	Carling Tech. Part No.
SPST	On-Off	Illum. Grn. 12V/Amber 12V	Black	432-1088-ND	10.92	5.88	4.20	V1D2GHNB-AAC00-000
SPST	Off-Mom	Illum. Grn. 12V/Amber 12V	Black	432-1089-ND	11.41	6.15	4.39	V2D2GHNB-AAC00-000
SPDT	On-On-Off	Illum. Grn. 12V/Amber 12V	Black	432-1090-ND	14.40	7.76	5.54	VGD2GHNB-AAC00-000
SPDT	On-On	Illum. Grn. 12V/Amber 12V	Black	432-1091-ND	11.54	6.22	4.44	V4D2GHNB-AAC00-000
SPDT	On-Off-On	Illum. Grn. 12V/Amber 12V	Black	432-1092-ND	11.54	6.22	4.44	V6D2GHNB-AAC00-000
SP3T	On-On-On	Illum. Grn. 12V/Amber 12V	Black	432-1093-ND	15.34	8.26	5.90	VED2GHNB-AAC00-000
SPDT	Mom-Off-Mom	Illum. Grn. 12V/Amber 12V	Black	432-1094-ND	12.16	6.55	4.68	V8D2UHNB-AAC00-000
SPST	On-Off	Illuminated Incan 12V	Black	432-1095-ND	6.83	3.68	2.63	V1D2B60B-A9C00-000
SPST	Off-Mom	No Led or Lamp	Black	432-1096-ND	5.56	3.00	2.14	V2D2S00B-AZC00-000
SPDT	On-Off-On	Illuminated Incan 12V	Black	432-1097-ND	9.20	4.96	3.54	V6D2D66B-AAC00-000
DPDT	Mom-Off-Mom	Illum. Grn. 12V/Amber 12V	Black	432-1098-ND	12.84	6.92	4.94	VLD2GHNB-AAC00-000

Accessories

Description	Digi-Key Part No.	Price Each 1	25	50	Carling Tech. Part No.
Removal Tool, for removing Contura Actuators	432-1100-ND	3.51	1.89	1.35	VRT
Gasket Seal for Waterproofing Switch to Panel	432-1101-ND	.98	.53	.38	VPS-01
Connector Housing for Contura, Uses Amp 60295-2 Terminals	432-1102-ND	1.17	.63	.45	VC1-01
Hole Plug for Filling Panel Punch Holes Not Used, Black	432-1103-ND	1.46	.79	.57	VH2-01
Panel Bracket, Stacking Type Center Panel, Black	432-1104-ND	1.46	.79	.57	VMM-01
Panel Bracket, Stacking Type End Panel, Black	432-1105-ND	1.46	.79	.57	VME-01
Panel Bracket, 1 Position Switch Panel Mount, Black	432-1106-ND	1.79	.97	.69	VMS-01
Panel Bracket, 3 Position Switch Panel Mount, Black	432-1107-ND	4.39	2.37	1.69	VM3-01
Panel Bracket, 6 Position Switch Panel Mount, Black	432-1108-ND	8.81	4.75	3.39	VM6-01

Curvette Rocker Switches

The R Series Curvette line of Rocker Switches are Snap-In power switches used in Appliances, Medical, HVAC, Lawn & Garden and Transportation markets. The Dual Molded Visi-Rocker gives visual indication whether the switch is On or Off and will never burn out like Illuminated Rockers or wear off like Ink Stamped actuators.

Specifications: 10A @ 250VAC, 16A @ 125VAC, RD221 = 8A @ 250VAC, 12A @ 125VAC
Dielectric Strength: UL/CSA: 1000V live to dead metal. 750V across open contacts.
Electrical Life: 100,000 cycles
Mechanical Life: 100,000 cycles
Operating Temperature: 0°C ~ 85°C
Terminal: .250” QC

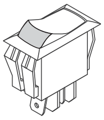

Panel Cut Out

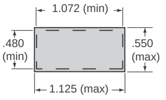

Circuit	Function	Body Color	Actuator Color	Markings	Digi-Key Part No.	Price Each 1	25	50	Carling Tech. Part No.
SPST	On-Off	Black	Black	None	432-1110-ND	1.24	.67	.48	RA901-RB-B-0-N
SPST	On-Off	Black	Black	Vert. “Off-On”	432-1111-ND	1.33	.72	.52	RA901-RB-B-A-N
SPST	On-Off	Black	Black	Vert. I-O	432-1112-ND	1.33	.72	.52	RA901-RB-B-F-N
SPST	On-Off	Black	Blk./Visi Red	None	432-1115-ND	1.33	.72	.52	RA901-VB-B-0-V
SPST	On-Off	Black	Blk./Visi Red	Vert. “Off-On”	432-1116-ND	1.33	.72	.52	RA901-VB-B-1-V
SPST	On-Off	Black	Blk./Visi Red	Horz. “Off-On”	432-1117-ND	1.33	.72	.52	RA901-VB-B-2-V
SPST	On-Off	Black	Blk./Visi Red	Vert. I-O	432-1118-ND	1.33	.72	.52	RA901-VB-B-9-V
SPST	On-Off	White	Wht./Visi Red	Vert. “Off-On”	432-1120-ND	1.46	.79	.57	RA901-VW-W-1-V
SPDT	On-Off-On	Black	Black	None	432-1121-ND	1.43	.77	.55	RC911-RB-B-0-N
SPST	Off-Mom	Black	Black	None	432-1122-ND	1.76	.95	.68	RD221-MB-B-0-N

CHERRY Rocker Switches

Cherry's new Rocker Switches were designed to be snapped into a panel without the need for additional hardware and are offered in a variety of styles and colors. Perfect for all types of power switching and control.

Fig. 1

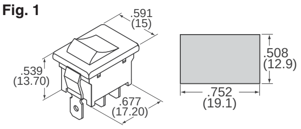

SR/LR Series: Industry standard miniature switches with 10A switching current.

Switch Current: SR Series 6A @ 250VAC LR Series 10A 125VAC/8A 250VAC
Actuator Base: Nylon 66 94V-2
Contacts: Silver Alloy
Illuminated Versions: 125VAC Neon Lamp
Terminals: .187" QC

Fig. 2

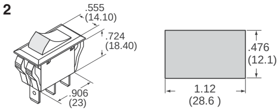

CR Series: Standard size power rocker switches with two color molded buttons (red shaded) for maximum visibility on selected actuators.

Switch Current: 20A 125VAC/16A 250VAC
Actuator Base: Nylon 66 94V-2
Contacts: Silver Alloy
Illuminated Versions: 125VAC Neon Lamp
Terminals: .250" QC
Note: Panel cut out CH812-ND and CH813-ND 1.12 x .543.

Fig. 3

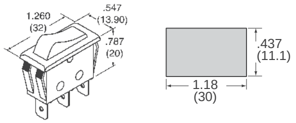

TR Series: Thin power rocker switches used extensively in appliance and white goods markets.

Switch Current: 16A 125VAC/16A 250VAC
Actuator Base: Nylon 66 94V-2
Contacts: Silver Alloy
Illuminated Versions: 125VAC Neon Lamp
Terminals: .250" QC

Fig. 4

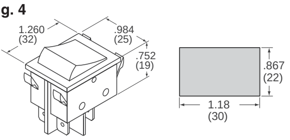

WR Series: Large DP power rocker switches for power switching.

Switch Current: 16A 125VAC/16A 250VAC
Actuator Base: Nylon 66 94V-2
Contacts: Silver Alloy
Illuminated Versions: 125VAC Neon Lamp
Terminals: .250" QC

Legend Marks

A
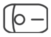

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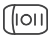

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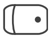

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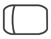

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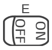

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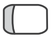

Fig.	Body Color	Actuator Color	Circuit Function	Switch Type	Legend Marking	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
SR Series — 10 Amp Miniature Rocker Switches										
1	Black	Black	On/Off	SPST	A	CH755-ND	.76	.68	.56	SRB22A2FBBNN
		Black	On/On	SPDT	D	CH756-ND	.81	.72	.60	SRB23A2BBBNN
		Black	On/Off/On	SPDT	B	CH757-ND	.95	.84	.70	SRB24A2HBBNN
		Black	On/Off	SPST	D	CH758-ND	.73	.65	.54	SRB22A2BBBNN
		Black	On/Off	SPST	C	CH759-ND	.73	.65	.54	SRB22A2GBBNN
	Black	Black	On/Off	SPST	E	CH760-ND	.73	.65	.54	SRB22A2DBBNN
		Red	On/Off	SPST	A	CH761-ND	.76	.68	.56	SRB22A2FBRNN
		White	On/Off	SPST	D	CH762-ND	.76	.68	.56	SRB22A2BBWNN
LR Series — 10 Amp Multi-pole Rocker Switches										
1	Black	Black	On/Off	SPST	D	CH763-ND	.89	.80	.66	LRA22H2BBBNN
	Black	Black	On/Off	SPST	A	CH764-ND	.89	.80	.66	LRA22H2FBBNN
	Black	Black	On/Off	SPST	E	CH765-ND	.89	.80	.66	LRA22H2DBBNN
	Black	Red	On/Off	SPST	A	CH766-ND	.92	.82	.68	LRA22H2FBRNN
	Grey	Grey	On/Off	SPST	A	CH768-ND	.95	.84	.70	LRA22H2FYYNN
	Black	Black	On/Off	DPST	D	CH769-ND	.97	.87	.72	LRA32H2BBBNN
		Black	On/Off	DPST	A	CH770-ND	.97	.87	.72	LRA32H2FBBNN
		Black	On/Off	DPST	E	CH771-ND	.97	.87	.72	LRA32H2DBBNN
		Red-Illuminated	On/Off	DPST	D	CH773-ND	1.19	1.06	.88	LRA32H2BBRLN
		Red-IIlluminated	On/Off	SPST	A	CH774-ND	1.11	.99	.82	LRA22H2FBRLN
	Black	Red-Illuminated	On/Off	DPST	A	CH775-ND	1.19	1.06	.88	LRA32H2FBRLN
		Green-Illuminated	On/Off	SPST	D	CH776-ND	1.11	.99	.82	LRA22H2BBGLN
		Green-Illuminated	On/Off	SPST	A	CH778-ND	1.11	.99	.82	LRA22H2FBGLN
		Green-Illuminated	On/Off	DPST	A	CH779-ND	1.19	1.06	.88	LRA32H2FBGLN
		Amber-Illuminated	On/Off	SPST	D	CH780-ND	1.11	.99	.82	LRA22H2BBALN
	Black	Amber-Illuminated	On/Off	DPST	D	CH781-ND	1.19	1.06	.88	LRA32H2BBALN
		Amber-Illuminated	On/Off	SPST	A	CH782-ND	1.11	.99	.82	LRA22H2FBALN
		Amber-Illuminated	On/Off	DPST	A	CH783-ND	1.19	1.06	.88	LRA32H2FBALN

Fig.	Body Color	Actuator Color	Circuit Function	Switch Type	Legend Marking	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
CR Series — 20 Amp Standard Rocker Switches										
2	Black	Black	On/Off	SPST	D	CH798-ND	.92	.82	.68	CRE22F2BBBNE
		Black	On/Off	SPST	A	CH799-ND	.92	.82	.68	CRE22F2FBBNE
		Black/Red Shade	On/Off	SPST	F	CH800-ND	.95	.84	.70	CRE22F4BBBNE
		Black/Red Shade	On/Off	SPST	E/F	CH801-ND	.95	.84	.70	CRE22F4DBBNE
		Black/Red Shade	On/Off	SPST	A/F	CH840-ND	1.03	.92	.76	CRE22F4FBBNE
	Black	Black	On/Off	SPST	E	CH802-ND	.92	.82	.68	CRE22F2PBBNE
	Black	Red	On/Off	SPST	A	CH803-ND	.95	.84	.70	CRE22F2FBRNE
	White	White/Red Shade	On/Off	SPST	F	CH804-ND	.97	.87	.72	CRE22F4BWWNE
	Grey	Grey/Red Shade	On/Off	SPST	F	CH805-ND	.97	.87	.72	CRE22F4BYYNE
	Black	Black	On/On	SPDT	D	CH806-ND	1.00	.89	.74	CRE23F2BBBNE
	Black	Black	On/Off/On	SPDT	B	CH807-ND	1.03	.92	.76	CRE24F2HBBNE
		Red	On/Off/On	SPDT	D	CH808-ND	1.03	.92	.76	CRE24F2BBRNE
		Red-Illuminated	On/Off	SPST	D	CH809-ND	1.16	1.04	.86	CRE22F2BBRLE
		Amber-Illuminated	On/Off	SPST	D	CH810-ND	1.16	1.04	.86	CRE22F2BBALE
		Green-Illuminated	On/Off	SPST	D	CH811-ND	1.16	1.04	.86	CRE22F2BBGLE
	Black	Black-Washable	On/Off	SPST	A	CH812-ND	1.35	1.20	1.00	CRE22F2FBBNW
		Black/Red Shade Washable	On/Off	SPST	F	CH813-ND	1.35	1.20	1.00	CRE22F4BBBNW
TR Series — 16 Amp Thin Power Rocker Switches										
3	Black	Black	On/Off	SPST	A	CH792-ND	1.03	.92	.76	TRG22F2FBBNN
		Black	On/Off	SPST	E	CH793-ND	1.03	.92	.76	TRG22F2DBBNN
		Red	On/Off	SPST	A	CH794-ND	1.05	.94	.78	TRG22F2FBRNN
		Red-Illuminated	On/Off	SPST	D	CH795-ND	1.24	1.11	.92	TRG22F2BBRLN
		Green-Illuminated	On/Off	SPST	D	CH796-ND	1.24	1.11	.92	TRG22F2BBGLN
		Red-Illuminated	On/Off	SPST	D	CH797-ND	1.24	1.11	.92	TRG22F5BBRLN
WR Series — 16 Amp Double-Pole Large Rocker Switches										
4	Black	Black	On/Off	DPST	A	CH784-ND	1.35	1.20	1.00	WRG32F2FBBNN
		Black	On/Off	DPST	A	CH785-ND	1.35	1.20	1.00	WRG32F5FBBNN
		Black	On/Off/On	DPDT	B	CH786-ND	1.62	1.44	1.20	WRG34F2HBBNN
		Red-Illuminated	On/Off	DPST	D	CH787-ND	1.67	1.49	1.24	WRG32F2BBRLN
		Red-Illuminated	On/Off	DPST	A	CH788-ND	1.67	1.49	1.24	WRG32F2FBRLN
	Black	Red-Illuminated	On/Off	DPST	D	CH789-ND	1.67	1.49	1.24	WRG32F5BBRLN
		Green-Illuminated	On/Off	DPST	D	CH790-ND	1.67	1.49	1.24	WRG32F2BBGLN
		Green-Illuminated	On/Off	DPST	A	CH791-ND	1.67	1.49	1.24	WRG32F2FBGLN

NKK® SWITCHES Internationally Approved Rocker Switches

High Inrush TV Rated

JW Series: Industry's first molded rockers with TV rating (JWM and JWMW: TV-5; JWL: TV-8). UL, CSA, VDE, SEMKO and SEV approved. Silver contacts, epoxy sealed solder lug terminals. **Electrical Capacity:** JWM and JWMW: 10A @ 125/250VAC; JWMW: 10A @ 30VDC; JWL: 16A @ 125/250VAC. **Dielectric Strength:** 2,000VAC minimum between contacts; 4,000VAC minimum between contacts and case. **Electrical Life:** 25,000 operations minimum **Operating Temperature:** -25°C ~ 70°C. **Angle of Throw:** 26° **Terminals:** JWM and JWMW: Solder lugs, JWL: .187" QC All switches are black body with black actuator. IP67 Panel Seal Option available.

Fig. 1

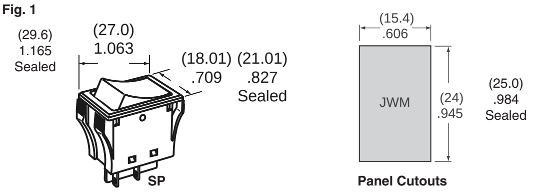

Panel Cutouts

Fig. 2

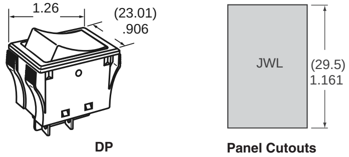

Panel Cutouts

A

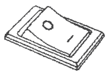

Inscription for Horizontal Mounting

B

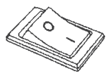

Inscription for Vertical Mounting

Fig.	Switching Circuit	Function	Marking	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	SPST	On-Off	A	360-1483-ND	7.65	6.12	4.85	JWM11RA1A
	SPST	On-Off	B	360-1484-ND	7.65	6.12	4.85	JWM11RA2A
	SPST	On-Off	A	360-1715-ND†	9.00	7.20	5.70	JWMW11RA1A
	SPST	On-Off	B	360-1716-ND†	9.00	7.20	5.70	JWMW11RA2A
	DPST	On-Off	A	360-1487-ND	9.99	8.00	6.33	JWM21RA1A
	DPST	On-Off	B	360-1488-ND	9.99	8.00	6.33	JWM21RA2A
	DPST	On-Off	A	360-1717-ND†	11.34	9.08	7.19	JWMW21RA1A

Fig.	Switching Circuit	Function	Marking	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	DPST	On-Off	B	360-1718-ND†	11.34	9.08	7.19	JWMW21RA2A
2	SPST	On-Off	A	360-1491-ND	9.99	8.00	6.33	JWL11RA1A
	SPST	On-Off	B	360-1492-ND	9.99	8.00	6.33	JWL11RA2A
	DPST	On-Off	A	360-1495-ND	13.59	10.88	8.61	JWL21RA1A
	DPST	On-Off	B	360-1496-ND	13.59	10.88	8.61	JWL21RA2A
—	Switch Boot Waterproof JWL Series			360-1011-ND	3.39	2.72	2.15	AT4126

† Panel Sealed

ITT Industries
Engineered for life

Rocker Switches

Specifications: • Contact Rating: 16 Amps at 125 VAC, 10 Amps at 250 VAC • CR Series: 10 Amps at 125VAC, 6 Amps at 250VAC • Electrical Life: 10,000 cycles at full load • Operating Temperature: 65°C
Materials: • Housing and Actuator: 6/6 nylon matte finish • Terminals: Silver plated, copper alloy

Fig. 1 – DA Series

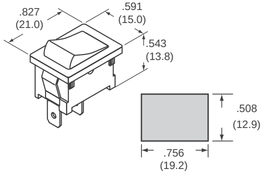

Terminal:
.187QC,
† Solder Lug

Applications:
- Small Appliances
- Computers and Peripherals
- Medical Instrumentation

Fig. 2 – CR Series

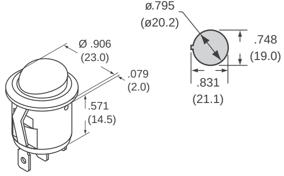

Terminal:
.187QC

Applications:
- Small and Large Appliances
- Computers and Peripherals
- Office Equipment

Fig. 3 – CG Series

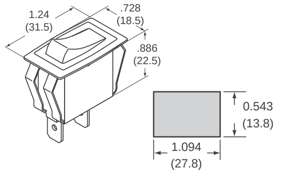

Terminal:
.250QC

Applications:
- Small Appliances
- Computers and Peripherals
- Instrument Panels

Fig. 4 – CL Series

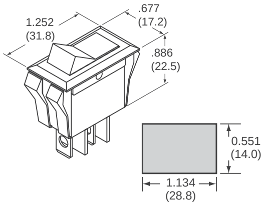

Terminal:
.250QC

Applications:
- Small Appliances
- Floor Care Products
- Power Outlet Strips

Fig. 5 – CM Series

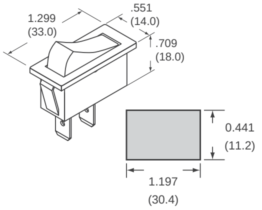

Terminal:
.250QC,
‡ Solder Lug

Applications:
- Small Appliances
- Computers and Peripherals
- Power Supplies

Fig 6 – CN Series

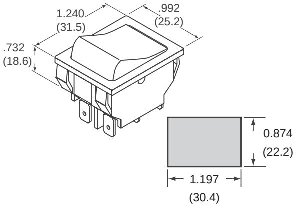

Terminal:
.187QC,

Applications:
- Appliances
- Computers and Peripherals
- Office Equipment

Actuator Style

A
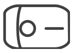

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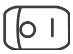

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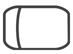

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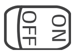

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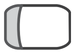

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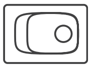

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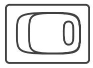

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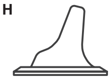

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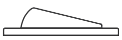

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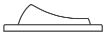

Circuit	Switch Function	Actuator Color	Body Color	Actuator Style	Digi-Key Part No.	Price Each			ITT Part No.
						1	25	100	
Fig. 1 — DA Series – 16 Amp Miniature Rocker Switches									
SPDT	On/On	White	White	C	401-1278-ND	1.68	1.35	1.07	DA101J11S115QF
SPDT	On/On	White	Black	C	401-1279-ND	1.56	1.25	.99	DA101J11S215QF
SPDT	On/On	Black	Black	C	401-1280-ND	1.44	1.16	.92	DA101J12S215QF
SPDT	On/On	Black	Black	C	401-1281-ND†	1.68	1.35	1.07	DA101J12S217QF
SPST	On/Off	White	Black	C	401-1282-ND	1.32	1.06	.84	DA102J11S215QF
SPST	On/Off	Black	Black	C	401-1283-ND	1.20	.96	.76	DA102J12S215QF
SPST	On/Off	Black	Black	C	401-1284-ND†	1.44	1.16	.92	DA102J12S217QF
SPST	On/Off	White	Black	A	401-1285-ND	1.44	1.16	.92	DA102J11S215PQF
SPST	On/Off	Black	Black	D	401-1286-ND	1.32	1.06	.84	DA102J12S215DQF
SPST	On/Off	Black	Black	B	401-1287-ND	1.32	1.06	.84	DA102J12S215HQF
SPST	On/Off	Black	Black	A	401-1288-ND	1.32	1.06	.84	DA102J12S215PQF
SPST	On/Off	White	Black	A/E	401-1289-ND	1.62	1.30	1.03	DA102J21S215PQF
SPST	On/Off	Red	Black	A/E	401-1290-ND	1.62	1.30	1.03	DA102J23S215PQF
SPST	On/Off	Amber Illum. 125V	Black	C	401-1291-ND	1.56	1.25	.99	DA102J3AS215QF7
SPST	On/Off	Green Illum. 125V	Black	C	401-1292-ND	1.56	1.25	.99	DA102J3GS215QF7
SPST	On/Off	Red Illum. 125V	Black	C	401-1293-ND	1.56	1.25	.99	DA102J3RS215QF7
SPST	On/Off	Amber Illum. 250V	Black	C	401-1294-ND	1.56	1.25	.99	DA102J3AS215QF8
SPST	On/Off	Green Illum. 250V	Black	C	401-1295-ND	1.56	1.25	.99	DA102J3GS215QF8
SPST	On/Off	Red Illum. 250V	Black	C	401-1296-ND	1.41	1.13	.90	DA102J3RS215QF8
SPST	On/Off	Red Illum. 125V	Black	F	401-1297-ND	1.77	1.42	1.13	DA102J4RS215QF7
SPST	On/Off	Red Illum. LED	Black	G	401-1298-ND	2.70	2.16	1.71	DA102J5RS215QF6
Fig. 2 — CR Series – 10 Amp Round Rocker Switches									
SPDT	On/On	White	White	C	401-1299-ND	2.13	1.71	1.35	CR101J11S115QF
SPDT	On/On	White	Black	C	401-1300-ND	2.01	1.61	1.28	CR101J11S215QF
SPDT	On/On	Black	Black	C	401-1301-ND	1.89	1.52	1.20	CR101J12S215QF
SPST	On/Off	White	Black	C	401-1302-ND	1.71	1.37	1.09	CR102J11S215QF
SPST	On/Off	Black	Black	C	401-1303-ND	1.59	1.28	1.01	CR102J12S215QF
SPST	On/Off	Red	Black	E	401-1304-ND	1.89	1.52	1.20	CR102J23S215QF
SPST	On/Off	Amber Illum. 125V	Black	C	401-1305-ND	2.16	1.73	1.37	CR102J3AS215QF7
SPST	On/Off	Green Illum. 125V	Black	C	401-1306-ND	2.16	1.73	1.37	CR102J3GS215QF7
SPST	On/Off	Red Illum. 125V	Black	C	401-1307-ND	2.16	1.73	1.37	CR102J3RS215QF7
SPST	On/Off	Amber Illum. 250V	Black	C	401-1308-ND	2.16	1.73	1.37	CR102J3AS215QF8
SPST	On/Off	Green Illum. 250V	Black	C	401-1309-ND	2.16	1.73	1.37	CR102J3GS215QF8
SPST	On/Off	Red Illum. 250V	Black	C	401-1310-ND	2.16	1.73	1.37	CR102J3RS215QF8
SPST	On/Off	Red Illum. 125V	Black	F	401-1311-ND	2.46	1.97	1.56	CR102J4RS215QF7
SPST	On/Off	Red Illum. LED	Black	G	401-1312-ND	2.76	2.21	1.75	CR102J5RS215QF6
SPST	On/Off	Red 125V Neon	Black	H	401-1313-ND	2.85	2.28	1.81	CR102JPRS215QF7
SPST	On/Off	Red 250V Neon	Black	H	401-1314-ND	2.85	2.28	1.81	CR102JPRS215QF8
Fig. 3 — CG Series – 16 Amp Beveled Frame Power Rocker Switches									
SPDT	On/On	White	White	C	401-1315-ND	2.28	1.83	1.45	CG101J11S105QF
SPDT	On/On	White	Black	C	401-1316-ND	2.16	1.73	1.37	CG101J11S205QF
SPDT	On/On	Black	Black	C	401-1317-ND	2.04	1.64	1.30	CG101J12S205QF
SPST	On/Off	White	Black	C	401-1318-ND	1.92	1.54	1.22	CG102J11S205QF
SPST	On/Off	Black	Black	C	401-1319-ND	1.80	1.44	1.14	CG102J12S205QF
SPST	On/Off	White	Black	A	401-1320-ND	2.04	1.64	1.30	CG102J11S205PQF
SPST	On/Off	Black	Black	D	401-1321-ND	1.92	1.54	1.22	CG102J12S205DQF
SPST	On/Off	Black	Black	B	401-1322-ND	1.92	1.54	1.22	CG102J12S205HQF
SPST	On/Off	Black	Black	A	401-1323-ND	1.92	1.54	1.22	CG102J12S205PQF
SPST	On/Off	Red	Black	E	401-1324-ND	2.28	1.83	1.45	CG102J23S205QF
SPST	On/Off	Amber Illum. 125V	Black	C	401-1325-ND	2.25	1.80	1.43	CG102J3AS205QF7
SPST	On/Off	Green Illum. 125V	Black	C	401-1326-ND	2.25	1.80	1.43	CG102J3GS205QF7
SPST	On/Off	Red Illum. 125V	Black	C	401-1327-ND	2.25	1.80	1.43	CG102J3RS205QF7
SPDT	On/Off/On	Black	Black	C	401-1328-ND	2.25	1.80	1.43	CG103J12S205QF
Fig. 4 — CL Series – 16 Amp Power Rocker Switches									
SPDT	On/On	White	Black	C	401-1329-ND	1.86	1.49	1.18	CL101J71S205QA
SPDT	On/On	Black	Black	C	401-1330-ND	1.74	1.40	1.11	CL101J72S205QA
SPST	On/Off	White	Black	C	401-1331-ND	1.62	1.30	1.03	CL102J71S205QA
SPST	On/Off	Black	Black	C	401-1332-ND	1.50	1.20	.95	CL102J72S205QA
SPST	On/Off	White	Black	A	401-1333-ND	1.74	1.40	1.11	CL102J71S205PQA
SPST	On/Off	Black	Black	D	401-1334-ND	1.62	1.30	1.03	CL102J72S205DQA
SPST	On/Off	Black	Black	B	401-1335-ND	1.62	1.30	1.03	CL102J72S205HQA
SPST	On/Off	Black	Black	A	401-1336-ND	1.62	1.30	1.03	CL102J72S205PQA
SPST	On/Off	Amber Illum. 125V	Black	C	401-1337-ND	1.74	1.40	1.11	CL102J9AS205QA7
SPST	On/Off	Green Illum. 125V	Black	C	401-1338-ND	1.74	1.40	1.11	CL102J9GS205QA7
SPST	On/Off	Red Illum. 125V	Black	C	401-1339-ND	1.74	1.40	1.11	CL102J9RS205QA7
SPDT	On/Off/On	Black	Black	C	401-1340-ND	1.95	1.56	1.24	CL103J72S205QA
Fig. 5 — CM Series – 16 Amp Power Rocker Switches									
SPDT	On/On	White	White	J/C	401-1341-ND	2.04	1.64	1.30	CM101J11S105QA
SPDT	On/On	White	Black	J/C	401-1342-ND	1.92	1.54	1.22	CM101J11S205QA
SPDT	On/On	Black	Black	J/C	401-1343-ND	1.80	1.44	1.14	CM101J12S205QA
SPDT	On/On	Black	Black	I/C	401-1344-ND	1.80	1.44	1.14	CM101J62S205QA
SPDT	On/On	Black	Black	J/C	401-1345-ND	1.80	1.44	1.14	CM101J12S405QA
SPDT	On/On	Black	Black	J/C	401-1346-ND‡	1.98	1.59	1.26	CM101J12S207QA
SPST	On/Off	White	Black	J/C	401-1347-ND	1.71	1.37	1.09	CM102J11S205QA
SPST	On/Off	Black	Black	J/C	401-1348-ND	1.59	1.28	1.01	CM102J12S205QA
SPST	On/Off	Black	Black	I/C	401-1349-ND	1.59	1.28	1.01	CM102J62S205QA
SPST	On/Off	Black	Black	J/C	401-1350-ND	1.59	1.28	1.01	CM102J12S405QA
SPST	On/Off	Black	Black	J/C	401-1351-ND‡	1.77	1.42	1.13	CM102J12S207QA
SPST	On/Off	White	Black	J/A	401-1352-ND	1.83	1.47	1.16	CM102J11S205PQA
SPST	On/Off	Black	Black	J/D	401-1353-ND	1.71	1.37	1.09	CM102J12S205DQA
SPST	On/Off	Black	Black	J/B	401-1354-ND	1.71	1.37	1.09	CM102J12S205HQA
SPST	On/Off	Black	Black	J/A	401-1355-ND	1.71	1.37	1.09	CM102J12S205PQA
SPST	On/Off	Amber Illum. 125V	Black	J/C	401-1356-ND	1.95	1.56	1.24	CM102J3AS205QA7
SPST	On/Off	Green Illum. 125V	Black	J/C	401-1357-ND	1.95	1.56	1.24	CM102J3GS205QA7
SPST	On/Off	Red Illum. 125V	Black	J/C	401-1358-ND	1.95	1.56	1.24	CM102J3RS205QA7
SPST	On/Off	Amber Illum. 250V	Black	J/C	401-1359-ND	1.95	1.56	1.24	CM102J3AS205QA8
SPST	On/Off	Green Illum. 250V	Black	J/C	401-1360-ND	1.95	1.56	1.24	CM102J3GS205QA8
SPST	On/Off	Red Illum. 250V	Black	J/C	401-1361-ND	1.95	1.56	1.24	CM102J3RS205QA8
SPDT	On/Off/On	Black	Black	J/C	401-1362-ND	2.25	1.80	1.43	CM103J12S205QA
SPDT	On/Off/Mom.	Black	Black	J/C	401-1363-ND	2.64	2.12	1.68	CM107J12S205QA
Fig 6 — CN Series – 16 Amp Double Pole Power Rocker Switches									
DPDT	On/On	White	White	J/C	401-1364-ND	3.27	2.62	2.08	CN201J11S115Q
DPDT	On/On	White	Black	J/C	401-1365-ND	3.15	2.52	2.00	CN201J11S215Q
DPDT	On/On	Black	Black	J/C	401-1366-ND	3.03	2.43	1.92	CN201J12S215Q
DPST	On/Off	White	Black	J/C	401-1368-ND	2.91	2.33	1.85	CN202J11S215Q
DPST	On/Off	Black	Black	J/C	401-1369-ND	2.79	2.24	1.77	CN202J12S215Q
DPST	On/Off	White	Black	J/A	401-1372-ND	3.03	2.43	1.92	CN202J11S215PQ
DPST	On/Off	Black	Black	J/D	401-1373-ND	2.91	2.33	1.85	CN202J12S215DQ
DPST	On/Off	Black	Black	J/B	401-1374-ND	2.91	2.33	1.85	CN202J12S215HQ
DPST	On/Off	Black	Black	J/A	401-1375-ND	2.91	2.33	1.85	CN202J12S215PQ
DPST	On/Off	Amber Illum. 125V	Black	J/C	401-1377-ND	3.24	2.60	2.06	CN202J3AS215Q7
DPST	On/Off	Green Illum. 125V	Black	J/C	401-1378-ND	3.24	2.60	2.06	CN202J3GS215Q7
DPST	On/Off	Red Illum. 125V	Black	J/C	401-1379-ND	3.24	2.60	2.06	CN202J3RS215Q7
DPST	On/Off	Amber Illum. 250V	Black	J/C	401-1380-ND	3.24	2.60	2.06	CN202J3AS215Q8
DPST	On/Off	Green Illum. 250V	Black	J/C	401-1381-ND	3.24	2.60	2.06	CN202J3GS215Q8
DPST	On/Off	Red Illum. 250V	Black	J/C	401-1382-ND	3.24	2.60	2.06	CN202J3RS215Q8

†, ‡, For terminal Information, see figure number.

Rocker Switches

Contact Materials

B Contacts and Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4 VA maximum @ 20VAC or DC maximum

Q Contacts: Coin silver, silver plated. Center Contact and All Terminals: Copper alloy, silver plated.
Rating: 5A @ 120VAC or 28VDC; 2A @ 250VAC
C Series: 15A @ 125VAC or 10A @ 250VAC
DM Series: 10A @ 125VAC or 5A @ 250VAC
DM2X/DM14/DM24 Series: 3A @ 125VAC or 2A @ 250VAC
DF Series: 16A @ 125VAC or 250VAC
D10X/D20X Series: 4A @ 125VAC or 2A @ 250VAC
D50X/D60X Series: 10A @ 125VAC or 5A @ 250VAC
E1XX/ E2XX Series: 7.5A @ 125VAC or 28VDC, 3A @ 250VAC
7000 Series: 5A @ 120VAC or 28VDC
9201 Series: 6A @ 120VAC or 28VDC, 3A @ 250VAC
9221 Series: 10A @ 125VAC or 28VDC, 5A@ 250VAC

Termination Options

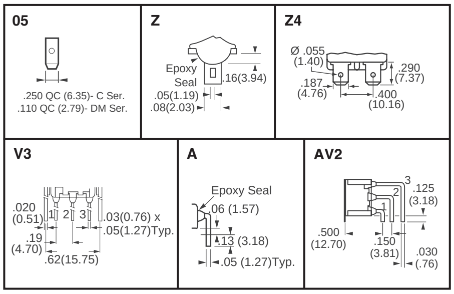

Fig. 1

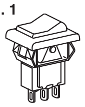

Fig. 2

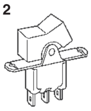

Fig. 3

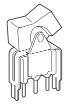

Fig. 4

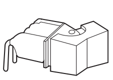

Fig. 5

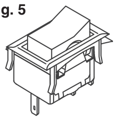

Fig. 6

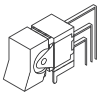

Fig. 7

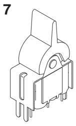

Fig. 8

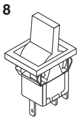

Fig. 9

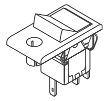

Fig. 10

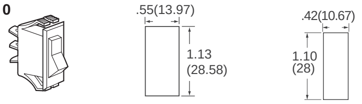

C Series

Panel Cutout

CA Series

Fig. 11

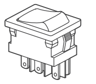

Fig. 12

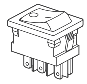

Fig. 13

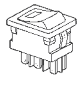

LED Illuminated

D Series

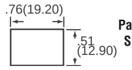

Panel Cutout SP Models

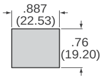

Panel Cutout DP Models

Fig. 14

PC Mount

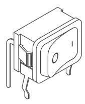

Fig. 15

Paddle Type

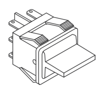

Fig. 16

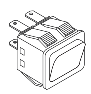

Fig. 17

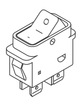

Fig. 18

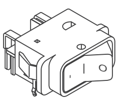

Fig.	Circuit	Actuator Description	Switching Function	Options (see diag.) Termi-nation	Options (see diag.) Contact Material	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Miniature Rocker Switches										
1	SPDT	Rocker/Frame	On-On	Z	Q	CKN2002-ND	7.56	6.05	4.79	U11J51ZQE22
		Rocker/Frame	On-On	Z	Q	CKN2010-ND	8.75	7.01	5.55	7101J16ZQE22
		Rocker/Frame	On-On	Z	Q	CKN2015-ND	7.56	6.05	4.79	7101J51ZQE22
		Rocker/Frame	On-Off-On	Z	Q	CKN2017-ND	8.11	6.49	5.14	7103J51ZQE22
		Rocker/Frame	Mom-Off-Mom	Z	Q	CKN2022-ND	8.23	6.59	5.22	7105J51ZQE22
		Rocker/Frame	On-Off-Mom	Z	Q	CKN2024-ND	8.23	6.59	5.22	7107J51ZQE22
		Rocker/Frame	On-Mom	Z	Q	CKN2027-ND	8.23	6.59	5.22	7108J51ZQE22
	DPDT	Rocker/Frame	On-On	Z	Q	CKN2029-ND	11.29	9.04	7.16	7201J16ZQE22
		Rocker/Frame	On-On	Z	Q	CKN2033-ND	10.10	8.08	6.40	7201J51ZQE22
		Rocker/Frame	On-Off-On	Z	Q	CKN2037-ND	11.05	8.84	7.00	7203J51ZQE22
		Rocker/Frame	Mom-Off-Mom	Z	Q	CKN2040-ND	11.05	8.84	7.00	7205J51ZQE22
2	SPDT	Black	On-On	Z	Q	CKN2007-ND	6.64	5.32	4.21	7101J1ZQE2
		Black	On-Off-On	Z	Q	CKN2008-ND	7.13	5.71	4.52	7103J1ZQE2
		Black	Mom-Off-Mom	Z	Q	CKN2018-ND	7.25	5.81	4.60	7105J1ZQE2
		Lever	Mom-Off-Mom	Z	Q	CKN2021-ND	9.43	7.55	5.97	7105J4ZQE2
	DPDT	Black	On-On	Z	Q	CKN2000-ND	9.12	7.30	5.78	7201J1ZQE2
		Black	On-Off-On	Z	Q	CKN2036-ND	11.05	8.84	7.00	7203J3ZQE2
		Black	Mom-Off-Mom	Z	Q	CKN2039-ND	11.05	8.84	7.00	7205J3ZQE2
	4PDT	Black	On-On	Z	Q	CKN2001-ND	14.56	12.58	10.60	7401J1ZQE2
3	SPDT	Black	On-Off-On	V3	B	CKN2003-ND	8.48	6.78	5.37	7103J1V3BE2
		Black	On-On	V3	B	CKN2012-ND	7.93	6.35	5.02	7101J1V3BE2
		Black	On-On	V3	Q	CKN2013-ND	7.93	6.35	5.02	7101J1V3QE2
		Black	Mom-Off-Mom	V3	Q	CKN2020-ND	9.58	7.67	6.07	7105J3V3QE2
		Black	On-Mom	V3	B	CKN2026-ND	8.60	6.88	5.45	7108J1V3BE2
		Black	On-On	V3	B	CKN2072-ND	8.51	6.81	5.39	E101J1V3BE2
		Black	Mom-Off-Mom	V3	B	CKN2073-ND	9.64	7.72	6.11	E105J1V3BE2
		Black	On-On	V3	B	CKN2078-ND	7.19	5.76	4.56	T101J1V3BE2
	DPDT	Black	On-On	V3	B	CKN2032-ND	10.80	8.65	6.85	7201J1V3BE2
		Black	On-On	V3	B	CKN2076-ND	11.87	9.50	7.53	E201J1V3BE2
4	SPDT	Black	On-On	A	B	CKN2004-ND	7.31	5.86	4.64	7101J1ABE2
		Black	On-On	A	Q	CKN2005-ND	7.31	5.86	4.64	7101J1AQE2
		Black	On-On	A	B	CKN2069-ND	7.40	5.93	4.69	E101J1ABE2
		Black	On-On	A	Q	CKN2070-ND	7.40	5.93	4.69	E101J1AQE2
		Black	On-On	A	B	CKN2077-ND	7.83	6.27	4.97	ET01J6ABE2
—	SPDT	Black	On-On	A	Q	CKC2021-ND	3.83	3.06	2.43	JA01J12AQ
4	DPDT	Black	On-On	A	Q	CKN2006-ND	10.46	8.38	6.63	7201J1AQE2
		Black	On-On	A	B	CKN2074-ND	10.92	8.74	6.92	E201J1ABE2
		Black	On-On	A	B	CKN2079-ND	10.77	8.62	6.83	T201J1ABE2
5	SPDT	Rocker/Frame	On-On	Z	Q	CKN2009-ND	8.75	7.01	5.55	7101J11ZQE22
	3PDT	Rocker/Frame	On-On	Z	Q	CKN2044-ND	12.36	10.68	9.00	7301J11ZQE22
	4PDT	Rocker/Frame	On-On	Z	Q	CKN2045-ND	15.28	13.20	11.12	7401J11ZQE22
6	SPDT	Black	On-On	AV2	Q	CKN2011-ND	7.65	6.12	4.85	7101J1AV2QE2
		Black	On-On	AV2	B	CKN2071-ND	8.05	6.44	5.10	E101J1AV2BE2
	DPDT	Black	On-On	AV2	B	CKN2030-ND	11.11	8.89	7.04	7201J1AV2BE2
		Black	On-On	AV2	Q	CKN2031-ND	11.11	8.89	7.04	7201J1AV2QE2
		Black	On-On	AV2	Q	CKN2075-ND	11.57	9.26	7.33	E201J1AV2QE2
7	SPDT	Lever	On-On	V3	B	CKN2014-ND	8.90	7.13	5.64	7101J2V3BE2
8	SPDT	Lever/Frame	On-On	Z	Q	CKN2016-ND	7.56	6.05	4.79	7101J61ZQE22
		Lever/Frame	Mom-Off-Mom	Z	Q	CKN2023-ND	8.23	6.59	5.22	7105J61ZQE22
		Lever/Frame	On-Off-Mom	Z	Q	CKN2025-ND	8.23	6.59	5.22	7107J61ZQE22
		Lever/Frame	On-Mom	Z	Q	CKN2028-ND	8.23	6.59	5.22	7108J61ZQE22
	DPDT	Lever/Frame	On-On	Z	Q	CKN2035-ND	10.10	8.08	6.40	7201J61ZQE22
		Lever/Frame	On-Off-On	Z	Q	CKN2038-ND	11.05	8.84	7.00	7203J61ZQE22
		Lever/Frame	Mom-Off-Mom	Z	Q	CKN2041-ND	11.05	8.84	7.00	7205J61ZQE22
		Lever/Frame	On-Mom	Z	Q	CKN2042-ND	11.29	9.04	7.16	7208J61ZQE22
		Lever/Frame	On-On-On	Z	Q	CKN2043-ND	11.75	9.41	7.45	7211J61ZQE22
—	SPDT	Lever	Mom-Off-Mom	Z	Q	CKN2019-ND	8.23	6.59	5.22	7105J2ZQE2
9	DPDT	Rocker/LED	On-On	Z	Q	CKN2034-ND	10.10	8.08	6.40	7201J52ZQE22
Power Rocker Switches										
2	DPDT	Black	On-On	Z4	Q	CKN2047-ND	26.56	21.25	16.83	9221J1Z4QD2
6	DPDT	Black	On-On	AV2	Q	CKN2046-ND	21.33	17.07	13.51	9201J1AV2QE2
10	SPST	O -	On-Off	05	Q	CKN2049-ND‡	4.47	3.58	2.83	C122J12S205PQF
		Illum./Green	On-Off	05	Q	CKN2052-ND	3.31	2.65	2.10	CA04J167207PQ
	SPDT	Black	On-On	05	Q	CKC2008-ND	4.65	2.68	2.26	C121J12S205QF
		Red	On-On	05	Q	CKC2025-ND	4.56	3.65	2.89	C121J13S205QF
		Black	On-On	05	Q	CKC1238-ND	2.25	1.30	1.10	CA01J12207Q
		Green	On-On	05	Q	CKC1241-ND	2.63	1.52	1.28	CA01J16207Q
		Illum./Red	On-Off	05	Q	CKC1242-ND	3.16	1.83	1.54	CA04J137207Q
		Illum./Yellow	On-Off	05	Q	CKC1244-ND	3.16	1.83	1.54	CA04J157207Q
		Black	On-On	05	Q	CKN2048-ND	3.03	2.43	1.92	C121J12S205QA
	DPST	O -	On-Off	05	Q	CKN2051-ND‡†	5.57	4.46	3.53	C222J12S205PQF
	DPDT	Black	On-On	05	Q	CKC2026-ND†	5.30	4.24	3.36	C221J12S205QF
		Red	On-On	05	Q	CKC2027-ND†	5.63	4.51	3.57	C221J13S205QF
		Black	On-On	05	Q	CKN2050-ND†	4.10	3.29	2.60	C221J12S205QA
11	SPST	O -	On-Off	05	Q	CKN2055-ND‡	4.59	3.68	2.91	D102J12S205PQF
		O -	On-Off	05	Q	CKN1819-ND‡	2.45	1.96	1.56	D102J12S215PQA
		On-Off	On-Off	05	Q	CKN1820-ND‡	2.45	1.96	1.56	D102J12S217DQA
		O I	On-Off	A	Q	CKN2058-ND‡	4.74	3.80	3.01	D502J12S2AHQF
		O I	On-Off	05	Q	CKN1821-ND‡	2.60	2.09	1.65	D502J12S215HQA
	SPDT	O -	On-Off	05	Q	CKC2011-ND‡	3.67	2.94	2.33	D502J12S215PQF
		Black	On-On	05	Q	CKN2053-ND	3.43	2.75	2.17	D101J12S205QA
		O I	On-On	05	Q	CKN2054-ND‡	3.83	3.06	2.43	D101J12S215HQF
		Black	Mom-Off-Mom	05	Q	CKC2022-ND	7.07	5.66	4.48	D105J12S205QA
		O -	On-On	05	Q	CKN2056-ND‡	3.98	3.19	2.52	D501J12S215PQF
		Black	On-On	05	Q	CKN2057-ND	2.51	2.01	1.59	D501J12S215QA
		Black	On-Off-On	05	Q	CKC2012-ND	4.19	3.36	2.66	D503J12S205QA
		Black	On-Mom	05	Q	CKC2013-ND	4.53	3.63	2.87	D508J12S205QA
	DPST	O -	On-Off	05	Q	CKN2060-ND*‡	6.37	5.10	4.04	D602J12S205PQF
		O -	On-Off	05	Q	CKC2019-ND‡	5.33	4.26	3.38	DM62J12S205PQ
		Black	On-Off	05	Q	CKN2067-ND	4.90	3.92	3.11	DM62J12S205Q
12	DPDT	O -	On-On	05	Q	CKN2059-ND*‡	5.60	4.49	3.55	D601J12S215PQF
		O -	On-On	05	Q	CKC2018-ND‡	5.81	4.66	3.69	DM61J12S205PQ
		Black	On-On	05	Q	CKC2009-ND	3.95	3.42	2.88	DM61J12S205Q
13	SPST	Illum./Red	On-Off	05	Q	CKN2064-ND	4.90	3.92	3.11	DM14J72S205Q3
		Illum./Red	On-Off	05	Q	CKC2017-ND	5.23	4.19	3.32	DM54J72S205Q3
	DPST	Illum./Amber	On-Off	05	Q	CKN2065-ND	5.97	4.78	3.78	DM24J72S205Q4
		Illum./Green	On-Off	05	Q	CKN2066-ND	5.97	4.78	3.78	DM24J72S205Q6
		Illum./Green	On-Off	05	Q	CKN2068-ND	6.30	5.05	4.00	DM64J72S205Q6
		Illum./Red	On-Off	05	Q	CKC2020-ND	5.91	4.73	3.75	DM64J72S205Q3
—	DPST	O -	On-Off	05	Q	CKC2016-ND‡	6.64	5.32	4.21	DF62J12S215PQF
14	SPDT	O -	On-On	A	Q	CKC2010-ND‡	5.05	4.04	3.20	D501J12S2APQF
		O I	On-On	A	Q	CKC2023-ND‡	5.05	4.04	3.20	D501J12S2AHQF
15	DPDT	Black	On-On	05	Q	CKC2024-ND	3.98	3.19	2.52	D201J52S215QA
16	DPDT	Black	On-Mom	05	Q	CKC2015-ND*	6.67	5.34	4.23	D608J12S205QA
		O -	Off-On	05	Q	CKC2014-ND*‡	5.30	4.24	3.36	D602J12S215PQF
17	DPST	O I	On-Off	05	Q	CKN2061-ND‡	6.64	5.32	4.21	DF62J12S215HQF
18	DPST	O I	On-Off	—	Q	CKN2062-ND‡	6.03	4.83	3.82	DF62J12S2AHQA
		O -	On-Off	—	Q	CKN2063-ND‡	7.10	5.68	4.50	DF62J12S2APQF

† Panel Cutout is 1.00” x 1.125” (25.40mm x 28.58mm) * Panel Cutout is .756” x .887” (19.20mm x 22.53mm) ‡ White Marking

NKK SWITCHES CW Series Rocker Switches

Fig.	Circuit	Switch Function	Actuator Color	Terminals	Current Rating	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
1	SPST	On-Off	—	Solder	6A	360-1720-ND	2.16	1.73	1.37	CWSA11AANS
	SPDT	On-On	—	Solder	6A	360-1727-ND	2.70	2.16	1.71	CWT12AAS1
	DPST	On-Off	Red 125VAC	.187 QC	9A	360-1728-ND	4.56	3.65	2.89	CWSB21CACF
	DPST	On-Off	Amber 125VAC	.187 QC	9A	360-1729-ND	4.20	3.36	2.66	CWSB21DADF
	DPST	On-Off	Green 125VAC	.187 QC	9A	360-1730-ND	4.56	3.65	2.89	CWSB21FAFF
	DPST	On-Off	Red LED	.110 QC	9A	360-1731-ND	8.76	7.01	5.55	CWSC21JCACS
	DPST	On-Off	Amber LED	.110 QC	9A	360-1732-ND	8.76	7.01	5.55	CWSC21JDADS
	DPST	On-Off	Green LED	.110 QC	9A	360-1733-ND	8.76	7.01	5.55	CWSC21JFAFS
	SPST	On-Off	Red LED	.110 QC	9A	360-1734-ND	5.37	4.30	3.41	CWSC11JCACS
	SPST	On-Off	Amber LED	.110 QC	9A	360-1735-ND	5.37	4.30	3.41	CWSC11JDADS
	SPST	On-Off	Green LED	.110 QC	9A	360-1736-ND	5.37	4.30	3.41	CWSC11JFAFS
2	SPST	On-Off	—	Solder	6A	360-1721-ND	2.31	1.85	1.47	CWSA11AAN1S
	SPST	On-Off	—	.187 QC	6A	360-1723-ND	2.43	1.95	1.54	CWSB11AA1F
	DPST	On-Off	—	.187 QC	6A	360-1725-ND	3.39	2.72	2.15	CWSB21AA1F
3	SPST	On-Off	—	Solder	6A	360-1722-ND	2.31	1.85	1.47	CWSA11AAN2S
	SPST	On-Off	—	.187 QC	6A	360-1724-ND	2.43	1.95	1.54	CWSB11AA2F
	DPST	On-Off	—	.187 QC	6A	360-1726-ND	3.39	2.72	2.15	CWSB21AA2F

Neon Lamp Ratings	Red	Amber	Green
Voltage Internal	125V	125V	125V
Resistance	33KΩ	33KΩ	33KΩ
Current	1.4mA	1.4mA	0.6mA

LED Ratings	Red	Amber	Green
Forward Voltage	2.1V	2.0V	1.95V
Forward Current	20mA	20mA	20mA
Peak Current	30mA	30mA	30mA

CWS Series

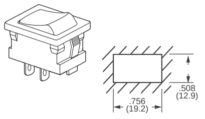

CWT Series

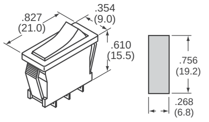

Fig. 1

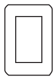

Fig. 2

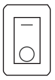

Fig. 3

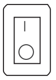

CW INDUSTRIES Panel Mount Rocker Switches

Mini Rocker Switches

CW Rocker switches are single pole or double pole switches capable of currents normally associated with much larger switches. Standard black body with either black or red rocker knob. Designed to satisfy unique styling requirements which can be the key to a product's success. Switches with markings are white ink stamped markings on rocker knob. Illuminated “Soft Glow” switches are 110VAC neon bulbs, red diffused lens. All terminals are .187” QC. **Typical Applications:** Motor-driven devices, instruments, household appliances, auto. access., recreational vehicles and telecommunication, computer and computer peripheral equipment. **MATERIALS:** • **Rocker Knob:** Nylon 94V-2 • **Housing:** Nylon 94V-2 • **Terminal/Stationary/Moving Contact:** Copper alloy and/or copper alloy silver plated **MOUNTING:** Self locks without hardware when popped into the panel cutout. Acceptable panel thickness range is from .050” to .150” (1.27mm to 3.81mm). **PERFORMANCE STANDARDS:** **Contact Resistance:** Less than .01Ω at 10mA (initial) **Operating Temperature:** 105°C maximum ***Caution:*** Burr direction must be away from the direction of insertion.

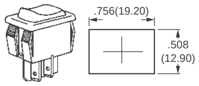

Switch Markings

A

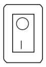

Vertical Hot Stamp

B

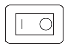

Horizontal Hot Stamp

Switch Marking	Rocker Color	Circuit	Finish	Switch Function	Electrical Ratings	Listing Agencies	Digi-Key Part No.	Price Each 1	10	100	500	CW Industries Part No.
—	Black	SPST	Matte	On/Off	16A 125-250VAC	UL, CSA, VDE	SW339-ND*	1.22	1.10	.83	.55	GRS-4011-0024
—	Black	SPST	Matte	On/Off	16A 125-250VAC	UL, CSA, VDE	SW301-ND	1.16	1.04	.78	.52	GRS-4011-1600
—	Red	SPST	Matte	On/Off	16A 125-250VAC	UL, CSA, VDE	SW302-ND	1.16	1.04	.78	.52	GRS-4011-0040
B	Black	SPST	Matte	On/Off	16A 125-250VAC	UL, CSA, VDE	SW322-ND	1.33	1.20	.90	.60	GRS-4011-0068
A	Black	SPST	Matte	On/Off	16A 125-250VAC	UL, CSA, VDE	SW323-ND	1.33	1.20	.90	.60	GRS-4011-0076
—	Black	SPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW303-ND	1.25	1.13	.85	.57	GRS-4012-1600
—	Red	SPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW304-ND	1.29	1.16	.87	.58	GRS-4012-0026
A	Black	SPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW324-ND	1.43	1.28	.96	.64	GRS-4012-0047
—	Black	DPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW307-ND	1.78	1.60	1.20	.80	GRS-4022-1600
—	Red	DPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW308-ND	1.78	1.60	1.20	.80	GRS-4022-0010
A	Black	DPDT	Matte	On/On	16A 125-250VAC	UL, CSA, VDE	SW325-ND	1.96	1.76	1.32	.88	GRS-4022-0013
—	Black	SPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW305-ND	1.59	1.43	1.07	.72	GRS-4013A-1300
—	Red	SPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW306-ND	1.59	1.43	1.07	.72	GRS-4013A-0008
—	Black	SPST	Matte	Off/Mom	3A 125VAC, 10A 250VAC	UL, CSA	SW329-ND	1.34	1.20	.90	.60	GRS-4011B-1300
—	Black	SPDT	Matte	Mom/Off/Mom	8A 125VAC, 4A 250VAC	UL, CSA	SW340-ND	1.55	1.39	1.05	.70	GRS-4013C-0001
—	Black	DPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW309-ND	2.12	1.90	1.43	.95	GRS-4023A-1300
—	Red	DPDT	Matte	On/Off/On	13A 125VAC, 10A 250VAC	UL, CSA	SW310-ND	2.12	1.90	1.43	.95	GRS-4023A-0009
—	Black	DPST	Matte	Off/Mom	3A 125VAC, 10A 250VAC	UL, CSA	SW330-ND	1.87	1.68	1.26	.84	GRS-4021B-0000
—	Black	DPDT	Matte	Mom/Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW311-ND	2.12	1.90	1.43	.95	GRS-4023C-1300
—	Red	DPDT	Matte	Mom/Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW312-ND	2.12	1.90	1.43	.95	GRS-4023C-0005
—	Red Illum.	SPST	Matte	On/Off	16A 125VAC	UL, CSA	SW300-ND	2.93	2.63	1.97	1.32	GRL-4011-1600

* Note: Eyelet Terminals

Standard Rocker Switches

CW Rocker Switches are designed to solve the switching problems of the user and styled to satisfy the designer. They are easy to mount, easy to terminate and easy to actuate. Hot stamped versions are marked for switch position identification; illuminated version is 120VAC neon bulb. **OPERATING STANDARDS: Temperature:** 105°C maximum **Contact Resistance:** 0.01Ω at 10mA. **MATERIALS: Rocker Knob:** Nylon 94V-4. **Housing:** Nylon 94V-2. **Terminal Board:** Nylon 94V-0. **Terminal/Moving Contact:** Copper and/or copper alloy silver plated. **MOUNTING:** No hardware or tools needed; self locks into proper panel cutout. Acceptable panel thickness range is from .025” to .180” (0.64mm to 4.57mm). All terminals are .250” QC. ***Caution:*** Burr direction must be away from the direction of insertion.

Fig. 1

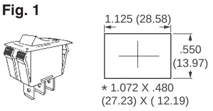

Fig. 2

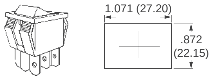

A **Switch Marking**

Vertical Hot Stamp

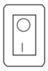

Fig.	Switch Marking	Rocker Color	Finish	Circuit	Switch Function	Electrical Ratings	Listing Agencies	Digi-Key Part No.	Price Each 1	10	100	500	CW Industries Part No.
1	—	Red Illum.	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW313-ND	2.37	2.12	1.59	1.06	GRL-2011-1600
	—	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW314-ND	1.06	.96	.72	.48	GRS-2011-2000
	—	Red	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW315-ND	1.12	1.00	.75	.50	GRS-2011-2019
	A	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW326-ND	1.23	1.11	.83	.56	GRS-2011-2080
	—	Black	Matte	SPST-NO	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW316-ND*	1.12	1.00	.75	.50	GRS-2011-3000
1	—	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW319-ND*	1.20	1.08	.81	.54	GRS-2012-3000
	A	Black	Matte	SPST	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW341-ND*	1.29	1.16	.87	.58	GRS-2011-3020
	—	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW317-ND	1.20	1.08	.81	.54	GRS-2012-2000
	—	Red	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW318-ND	1.20	1.08	.81	.54	GRS-2012-2009
	A	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW327-ND	1.38	1.24	.93	.62	GRS-2012-2028
1	—	Black	Matte	SPDT	On/Off/On	16A 125VAC, 12A 250VAC	UL, CSA	SW320-ND	1.55	1.40	1.05	.70	GRS-2013A-2000
	—	Black	Matte	SPST-NO	Off/Mom	13A 125VAC	UL, CSA	SW613-ND	1.23	1.11	.83	.56	GRS-2011B-2000
	—	Black	Matte	SPST-NC	On/Mom	13A 125VAC	UL, CSA	SW614-ND	1.23	1.11	.83	.56	GRS-2011C-2000
	—	Black	Matte	SPDT	Mom/Off/Mom	13A 125VAC, 10A 250VAC	UL, CSA	SW622-ND	1.68	1.51	1.13	.76	GRS-2013C-1300
	—	Black	Matte	SPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW623-ND	1.21	1.08	.81	.54	GRS-2012-2600
	—	Black	Matte	SPST	On/Off	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW624-ND	1.06	.96	.72	.48	GRS-2011-2600
2	—	Black	Matte	DPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW321-ND	2.88	2.58	1.94	1.29	GR-2022-1600
	A	Black	Matte	DPDT	On/On	16A 125VAC, 12A 250VAC	UL, CSA, VDE	SW328-ND	3.06	2.74	2.06	1.37	GR-2022-0007

* Dimensions are 1.072” x .480” (27.23mm x 12.19mm)

IndicON™ Rocker Switches

Fig. 1

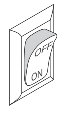

Fig. 2

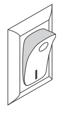

Fig. 3

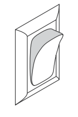

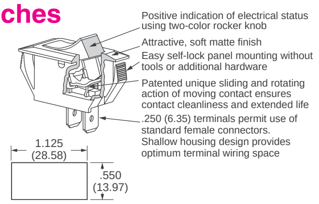
Positive indication of electrical status using two-color rocker knob
Attractive, soft matte finish
Easy self-lock panel mounting without tools or additional hardware
Patented unique sliding and rotating action of moving contact ensures contact cleanliness and extended life
.250 (6.35) terminals permit use of standard female connectors. Shallow housing design provides optimum terminal wiring space
1.125
(28.58)
.550
(13.97)

IndicON rocker switches are the right choice wherever you want performance combined with style. Provides users with a positive indication whether switch is “On” or “Off”. Unlike lighted rocker switches which may burn out over time, there's never a safety concern with IndicON switches. **Features:** • Economical alternative to lighted switches • Fast and secure mounting - no hardware required • Long life, reliable operation • Two color molding process provides permanent legends • Compatible appearance with other CW switches **Electrical Specifications:** 16A @ 125VAC rating without precious metals **Agency Certifications:** UL, CSA, and VDE

Fig.	Switch Color	Actuator Color	Circuit Funct.	Switch Type	Term. Type In. (mm)	Digi-Key Part No.	Price Each 1	10	100	500	CW Industries Part No.
1	Black	Red	SPST	On-Off	.250QC (6.35)	SW344-ND	1.20	1.08	.81	.54	NAA-111-BI11-00
1	Black	Red	SPDT	On-On	.250QC (6.35)	SW349-ND	1.28	1.15	.87	.58	NBA-111-BI11-00
2	Black	Red	SPST	On-Off	.250QC (6.35)	SW354-ND	1.20	1.08	.81	.54	NAA-111-BI21-00
3	Black	Red	SPST	On-Off	.250QC (6.35)	SW620-ND	1.06	.96	.72	.48	NAA-111-BI31-00
3	Black	Red	SPDT	On-On	.250QC (6.35)	SW621-ND	1.28	1.15	.87	.58	NBA-111-BI31-00

E-SWITCH® Miniature Rocker Switches

Specifications: Silver or gold plated copper alloy **Rockers:** Nylon **Bushing:** Brass Nickel Plated **Housing:** Stainless Steel **Operating Temperature:** -30°C ~ 85°C

Fig. 1

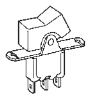

Fig. 2

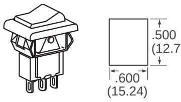

Fig. 3

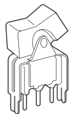

Fig. 4

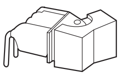

Fig. 5

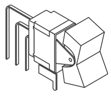

Fig. 6

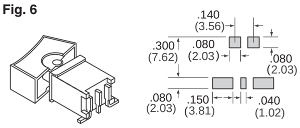

Dim. in inch (mm)

Fig.	Circuit	Actuator Color	Switch Function	Terminal	Contact Rating	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Miniature Rocker Switches										
1	SPDT	Black	On-On	Solder Eyelet	5A	EG4306-ND	6.25	5.63	4.80	300SP1R1BLKM1QE
1	SPDT	Black	On-Off-On	Solder Eyelet	5A	EG4307-ND	6.81	6.13	5.23	300SP3R1BLKM1QE
1	DPDT	Black	On-On	Solder Eyelet	5A	EG4308-ND	7.41	6.67	5.69	300DP1R1BLKM1QE
1	DPDT	Black	On-Off-On	Solder Eyelet	5A	EG4309-ND	8.05	7.25	6.17	300DP3R1BLKM1QE
2	SPDT	Black	On-On	Solder Eyelet	5A	EG4310-ND	7.83	7.05	6.01	300SP1R6BLKM1QEBLK
3	SPDT	Black	On-On	PCB	5A	EG4311-ND	6.25	5.63	4.80	300SP1J1BLKM2QE
3	SPDT	Black	On-On	PCB	0.4VA	EG4312-ND*	6.64	5.98	5.10	300SP1J1BLKM2RE
4	SPDT	Black	On-On	Right Angle PCB	5A	EG4313-ND	6.41	5.78	4.92	300SP1J1BLKM6QE
5	SPDT	Black	On-On	Vertical Right Angle	5A	EG4314-ND	6.67	6.01	5.12	300SP1J1BLKM7QE
Process Sealed Miniature Rocker Switches										
1	SPDT	Black	On-On	Solder Eyelet	5A	EG4315-ND	6.80	6.13	5.22	300AWSP1R1BLKM1QE
1	SPDT	Black	On-Off-On	Solder Eyelet	5A	EG4316-ND	7.45	6.71	5.72	300AWSP3R1BLKM1QE
1	DPDT	Black	On-On	Solder Eyelet	5A	EG4317-ND	7.83	7.05	6.01	300AWDP1R1BLKM1QE
1	DPDT	Black	On-Off-On	Solder Eyelet	5A	EG4318-ND	8.48	7.63	6.50	300AWDP3R1BLKM1QE
3	SPDT	Black	On-On	PCB	5A	EG4341-ND	5.14	4.63	3.95	300AWSP1J1M2QE
3	SPDT	Black	On-On	PCB	0.4VA	EG4320-ND*	7.40	6.66	5.68	300AWSP1J1M2RE
4	SPDT	Black	On-On	Right Angle PCB	5A	EG4321-ND	7.17	6.46	5.50	300AWSP1J1M6QE
5	SPDT	Black	On-On	Vertical Right Angle	5A	EG4322-ND	7.39	6.65	5.67	300AWSP1J1M7QE
Sub-Miniature Rocker Switches										
1	SPDT	Black	On-On	Solder Eyelet	3A	EG4323-ND	5.51	4.96	4.23	400MSP1R1BLKM1QE
1	SPDT	Black	On-On	Solder Eyelet	0.4VA	EG4324-ND*	5.82	5.24	4.47	400MSP1R1BLKM1RE
1	DPDT	Black	On-On	Solder Eyelet	3A	EG4325-ND	7.29	6.57	5.59	400MDP1R1BLKM1QE
4	SPDT	Black	On-On	Right Angle PCB	3A	EG4326-ND	6.09	5.49	4.67	400MSP1R6BLKM6QE
4	SPDT	Black	On-On	Right Angle PCB	0.4VA	EG4327-ND*	6.40	5.76	4.91	400MSP1R6BLKM6RE
5	SPDT	Black	On-On	Vertical Right Angle	3A	EG4328-ND	6.29	5.67	4.83	400MSP1R1BLKM7QE
5	SPDT	Black	On-On	Vertical Right Angle	0.4VA	EG4329-ND*	3.60	3.25	2.77	400MSP1R1BLKM7RE
Process Sealed Sub-Miniature Rocker Switches										
1	SPDT	Black	On-On	Solder Eyelet	3A	EG4330-ND	5.61	5.06	4.31	400AWMSP1R1BLKM1QE
1	SPDT	Black	On-On	Solder Eyelet	0.4VA	EG4331-ND*	5.83	5.25	4.47	400AWMSP1R1BLKM1RE
4	SPDT	Black	On-On	Right Angle PCB	3A	EG4332-ND	6.35	5.72	4.87	400AWMSP1R1BLKM6QE
4	SPDT	Black	On-On	Right Angle PCB	0.4VA	EG4333-ND*	6.56	5.91	5.04	400AWMSP1R1BLKM6RE
5	SPDT	Black	On-On	Vertical Right Angle	3A	EG4334-ND	6.56	5.91	5.04	400AWMSP1R1BLKM7QE
5	SPDT	Black	On-On	Vertical Right Angle	0.4VA	EG4335-ND	6.78	6.10	5.20	400AWMSP1R1BLKM7RE
Surface Mount Process Sealed Rocker Switches										
6	SPDT	Black	On-On	SMD	3A	EG4336-ND	8.97	8.08	6.88	400BWMSP1R2BLKSM6QE
6	SPDT	Black	On-Mom	SMD	3A	EG4337-ND	9.18	8.27	7.04	400BWMSP2R2BLKSM6QE
6	SPDT	Black	On-Off-On	SMD	3A	EG4338-ND	9.39	8.46	7.20	400BWMSP3R2BLKSM6QE
6	SPDT	Black	Mom-Off-Mom	SMD	3A	EG4339-ND	9.60	8.64	7.36	400BWMSP4R2BLKSM6QE
6	SPDT	Black	On-Off-Mom	SMD	3A	EG4340-ND	9.84	8.86	7.55	400BWMSP5R2BLKSM6QE

*Gold

Rocker Switches

RATINGS: • RA Series: 125VAC, 10A • RC Series: 125VAC, 15A • R1966 Series: 125VAC, 15A
Contact Resistance: 100mΩ maximum
Electrical Life: 10,000 Cycle
Terminals: .187 Faston (QC) or Solder Terminals
Approvals: UL, CSA, VDE, NEMKO, SEMKO, FEMKO, DEMKO

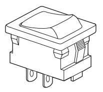

RA/RC - R1966

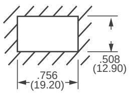

Panel Cutout

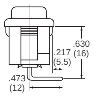

Right Angle PCB

Termination Options

Solder Lug

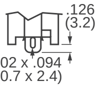

.187 Faston (QC)

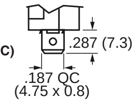

Fig. 1

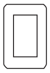

Fig. 2

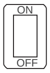

Fig. 3

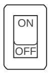

Fig. 4

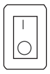

Fig. 5

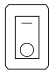

Fig. 6

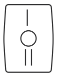

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
RA/RC Series (Black Matte Finish)						
2	SPST, 10A Black Matte with Marking	EG1500-ND	1.78	1.61	1.37	RA1066AFC
3	SPST, 10A Black Matte with Marking	EG1501-ND	1.78	1.61	1.37	RA1066AFF
4	SPST, 10A Black Matte with Marking	EG1502-ND	1.78	1.61	1.37	RA1066AFK
5	SPST, 10A Black Matte with Marking	EG1503-ND	1.78	1.61	1.37	RA1066AFH
1	SPST, 10A Black Matte No Marking	EG1504-ND	1.78	1.61	1.37	RA1066AFX
4	DPST, 15A Black Matte with Marking	EG1505-ND	2.95	2.66	2.27	RC1083BBLKBLKFF
5	DPST, 15A Black Matte with Marking	EG1506-ND	2.95	2.66	2.27	RC1083BBLKBLKGF
1	DPST, 15A Black Matte No Marking	EG1507-ND	2.95	2.66	2.27	RC1083BBLKBLKEF
R1966 Series (Black Semi-Gloss Finish)						
1	SPST, 15A, Black No Marking .187 QC	EG1508-ND	1.56	1.40	1.20	R1966ABLKBLKEF
1	SPST, 15A, Black No Marking Solder	EG1843-ND	1.94	1.56	1.40	R1966ABLKBLKES
3	SPST, 15A, Black w/ Marking .187 QC Term.	EG1509-ND	1.56	1.40	1.20	R1966ABLKBLKIF
3	SPST, 15A, Black w/ Marking Solder Term.	EG1844-ND	1.94	1.56	1.40	R1966ABLKBLKIS
4	SPST, 15A, Black w/ Marking .187 QC Term.	EG1510-ND	1.56	1.40	1.20	R1966ABLKBLKFF
4	SPST, 15A, Black w/ Marking Solder Term.	EG1845-ND	1.94	1.56	1.40	R1966ABLKBLKFS
5	SPST, 15A, Black w/ Marking .187 QC Term.	EG1511-ND	1.56	1.40	1.20	R1966ABLKBLKGF
5	SPST, 15A, Black w/ Marking Solder Term.	EG1846-ND	1.94	1.56	1.40	R1966ABLKBLKGS
4	SPST, 15A, Lt. Grey w/ Marking .187 QC Term.	EG2580-ND	1.87	1.50	1.35	R1966AGRYGRYFF
5	SPST, 15A, Lt. Grey w/ Marking .187 QC Term.	EG2581-ND	1.87	1.50	1.35	R1966AGRYGRYGF
4	SPST, 15A, White w/ Marking .187 QC Term.	EG2582-ND	1.87	1.50	1.35	R1966AWHTWHTFF
5	SPST, 15A, White w/ Marking .187 QC Term.	EG2583-ND	1.87	1.50	1.35	R1966AWHTWHTGF
6	SPDT, 15A, Black On-Off-On, .187 QC Term.	EG1841-ND	3.21	2.57	2.32	R1966DBLKBLKCF
1	SPST, 15A, Off-Mom .187 QC Term.	EG1512-ND	2.21	2.00	1.70	R1966FBLKBLKEF
1	SPST, 15A, Red LED Illumination, .187 QC	EG1514-ND	2.96	2.67	2.27	R1966ABLKBLKEFRED
1	SPST, 15A, Green LED Illumination .187 QC	EG1515-ND	2.96	2.67	2.27	R1966ABLKBLKEFGRN
1	SPST, 15A, Yellow LED Illumination .187 QC	EG1842-ND	2.96	2.67	2.27	R1966ABLKBLKEFYEL
1	SPST, 15A, Red LED Illum. Solder Term.	EG1858-ND	2.96	2.67	2.27	R1966ABLKBLKESRED
1	SPST, 15A, Green LED Illum. Solder Term.	EG1859-ND	2.96	2.67	2.27	R1966ABLKBLKESGRN
1	SPST, 15A, Yellow LED Illum. Solder Term.	EG1860-ND	2.96	2.67	2.27	R1966ABLKBLKESYEL
Right Angle PCB Mount						
1	SPST, 15A, Black w/ Led Red, Rt. Angle PCB	EG2577-ND	4.11	3.29	2.96	R1966ABLKBLKERR
4	SPST, 15A, Black w/ Marking, Rt. Angle PCB	EG2579-ND	2.45	1.96	1.77	R1966ABLKBLKFR
5	SPST, 15A, Black w/ Marking, Rt. Angle PCB	EG2578-ND	2.45	1.96	1.77	R1966ABLKBLKGR

JUDCO Manufacturing Inc.

Plastic Pushbutton Switches

- 3/8-27 Thread (Nut is included)
- 4.5” Wireleads

Fig.	Circuit	Function	Termination	Bushing	Actuator Color	Body Color	Contact Rating	Digi-Key Part No.	Price Each		
									1	10	100
Solder Tab Pushbutton											
1A	SPST	On, Off	.110 QC	Tall	Red	Black	14VDC, 2A	501PB-ND	.94	.80	.72
	SPST	On, Off	.110 QC	Tall	Black	Black	14VDC, 2A	508PB-ND	1.17	.99	.89
	SPST	On, Off	.110 QC	Tall	White	Black	14VDC, 2A	537PB-ND	1.44	1.22	1.09
	SPST	Momentary N/O	.110 QC	Tall	Red	Black	14VDC, 2A	502PB-ND	.94	.80	.72
	SPST	Momentary N/O	.110 QC	Tall	Black	Black	14VDC, 2A	509PB-ND	1.05	.89	.80
	SPST	Momentary N/C	.110 QC	Tall	Red	Black	14VDC, 2A	503PB-ND	1.28	1.09	.97
	SPST	Momentary N/C	.110 QC	Tall	Black	Black	14VDC, 2A	510PB-ND	1.51	1.28	1.14
	SPST	Momentary N/C	.110 QC	Tall	Red	Black	14VDC, 2A	536PB-ND	1.37	1.16	1.04
1B	SPST	Momentary N/O	.110 QC	Tall	Black	Black	125VAC, 2A	520PB-ND	2.34	1.99	1.77
Wire Lead Pushbutton											
2	SPST	On, Off	18AWG	Tall	Red	Black	14VDC, 2A	505PB-ND	1.27	1.08	.96
	SPST	On, Off	20AWG	Tall	Black	Black	14VDC, 2A	504PB-ND	.98	.83	.74
	SPST	On, Off (Mom On)	18AWG	Tall	Black	Black	14VDC, 2A	525PB-ND	2.32	1.97	1.75
	SPST	On, Off (Mom On)	18AWG	Short	Black	Black	14VDC, 2A	526PB-ND	2.32	1.97	1.75
	SPST	Momentary N/O	18AWG	Tall	Red	Black	14VDC, 2A	506PB-ND	1.31	1.11	.99
	SPST	Momentary N/O	18AWG	Tall	Black	Black	14VDC, 2A	507PB-ND	1.31	1.11	.99
	SPST	Momentary N/O	18AWG	Tall	Black	Black	14VDC, 2A	521PB-ND	2.41	2.04	1.82
	SPDT	On, Off	18AWG	Short	Black	Black	14VDC, 2A	528PB-ND	1.74	1.48	1.32
	SPDT	On-On	18AWG	Tall	Black	Black	14VDC, 2A	527PB-ND	2.16	1.83	1.63
	SPDT	Momentary N/O	18AWG	Tall	Black	Black	14VDC, 2A	523PB-ND	2.65	2.25	2.00
	SPDT	On1, Off, On2	18AWG	Tall	Black	Black	14VDC, 2A	522PB-ND	2.52	2.14	1.90
	SPDT	On2, On1&2, On1, Off	18AWG	Tall	White	White	14VDC, 2A	524PB-ND	2.60	2.21	1.97
UL Recognized with Tactile Feel Pushbutton Switches											
2	SPST	Momentary N/O	18AWG	Tall	Black	Black	14VDC, 4A	539PB-ND	1.84	1.56	1.39
	SPST	On, Off	18AWG	Tall	Black	Black	14VDC, 10A	512PB-ND	1.22	1.04	.93
	SPST	Momentary N/C	18AWG	Tall	Black	Black	14VDC, 10A	541PB-ND	1.85	1.57	1.40
	SPST	Momentary N/O	18AWG	Tall	Black	Black	125VAC, 2A	538PB-ND	1.99	1.69	1.51
	SPST	On, Off	18AWG	Tall	Black	Black	125VAC, 6A	511PB-ND	1.37	1.17	1.04
	SPST	Momentary N/C	18AWG	Tall	Black	Black	125VAC, 6A	540PB-ND	1.84	1.56	1.39
Accessories											
—	Rubber Waterproof Boot with nut, Fits Tall Bushing, Black							513PB-ND	.56	.47	.42
	Rubber Waterproof Boot with nut, Fits Tall Bushing, Red							531PB-ND	.62	.53	.47
	Rubber Waterproof Boot with nut, Fits Short Bushing, Black							532PB-ND	.88	.75	.67
	Replacement Nut, Black Plastic							516PB-ND	.16	.14	.13
	Brass Knurled Nut							533PB-ND	.63	.54	.48
	Brass Hex Nut							534PB-ND	.82	.70	.62
	Nickel Hex Nut							535PB-ND	.90	.77	.69
Low Profile Pushbutton Switch											
3A	SPST	On, Off	Right Angle	—	Yellow	Black	14VDC, 500mA	519PB-ND	1.06	.90	.80
3B	SPST	On, Off	Straight	—	Yellow	Black	14VDC, 500mA	518PB-ND	1.06	.90	.80
3C	SPDT	On1, Off, On2	Right Angle	—	Yellow	Black	14VDC, 500mA	529PB-ND	1.06	.90	.80
	SPDT	On1, On2, Off	Right Angle	—	Teal	Black	12VDC, 300mA	542PB-ND	.93	.79	.71
3D	SPDT	On1, Off, On2	Straight	—	Yellow	Black	14VDC, 500mA	530PB-ND	1.06	.90	.80
	SPDT	On1, On2, Off	Straight	—	Blue	Black	12VDC, 300mA	543PB-ND	.93	.79	.71
Flat-Pac Pushbutton Switch											
4	SPST	On, Off	Right Angle	—	Black	Black	14VDC, 2A	514PB-ND	1.61	1.36	1.22
	SPST	On, Off	18AWG	—	Black	Black	14VDC, 2A	515PB-ND	1.59	1.35	1.21

Fig. 1 Dim. in inches

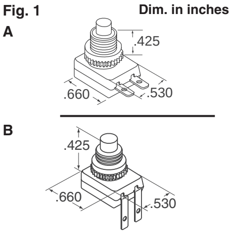

Fig. 2

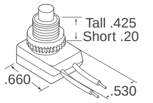

Fig. 3

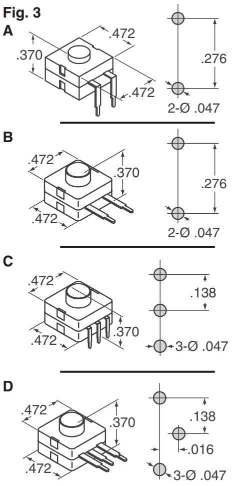

Fig. 4

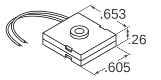

E-SWITCH®

Rocker Switches

Rocker Switches and Paddle Switches for mounting in a round hole instead of a rectangular or square punch. Easy to gang together for panels or consoles. Offered in various switching options with white ink stamping or LED illumination. Red LED-20mA @ 2.0VDC, Green LED-20mA @ 2.4VDC. All switches are black in color.

Fig. 1

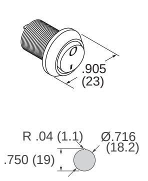

Fig. 2

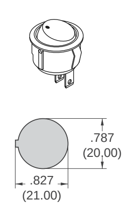

Fig. 3

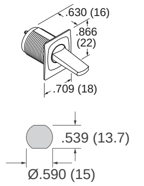

Fig. 4

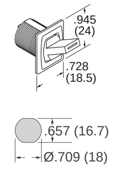

Dim. in inch (mm)

Fig.	Description	Digi-Key Part No.	Price Each			E-Switch Part No.
			1	10	100	
Rocker Switches						
1	SPST (On-Off) 10A with I/O Marking	EG1889-ND	3.15	2.84	2.42	RR3130A
	DPDT (On-On) 10A with I/O Marking	EG1890-ND	4.73	4.26	3.63	RR3130B
	SPDT (On-On) 10A with I/O Marking	EG1891-ND	3.50	3.16	2.69	RR3130C
2	SPST (On-Off) 10A Snap-In	EG1542-ND	1.75	1.58	1.35	RR3112A
Paddle Switches						
3	Mini, SPST (On-Off) 6A	EG1892-ND	2.80	2.53	2.15	RR3402A
	Mini, SPDT (On-On) 6A	EG1893-ND	3.15	2.84	2.42	RR3402C
	Mini, SPDT (On-Off-On) 6A	EG1894-ND	3.41	3.08	2.62	RR3402D
4	Standard, DPST (On-Off) 10A	EG1895-ND	4.34	3.91	3.33	RR3405A
	Red Illum., SPST (On-Off) 10A	EG1896-ND	5.87	5.28	4.50	RR3405AL-RED
	Green Illum., SPST (On-Off) 10A	EG1897-ND	5.87	5.28	4.50	RR3405AL-GRN
	Red Illum., SPDT (On-On) 10A	EG1898-ND	6.73	6.06	5.17	RR3405CL-RED
	Green Illum., SPDT (On-On) 10A	EG1899-ND	6.73	6.06	5.17	RR3405CL-GRN

Rocker Switches

RATINGS: • R5 Series: 20A 125V, 15A 250V for circuits A, B, C 15A 125V, 10A 250V for circuit D • R6 Series: 10A 125V, 6A 250V (UL/CSA) **Contact Resistance:** <20mΩ (initial) **Electrical Life:** ≥10,000 Cycle **Approvals:** UL, CSA, VDE, NEMKO, SEMKO, FIMKO, DEMKO

Fig. 1

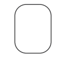

Fig. 2

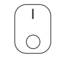

Fig. 3

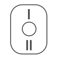

Fig. 4

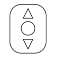

R5 Series

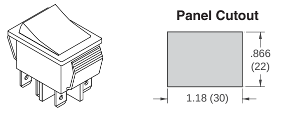

R6 Series Dim. in inch (mm)

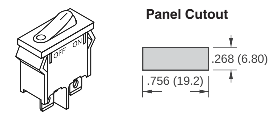

Fig.	Description	Digi-Key Part No.	Price Each			E-Switch Part No.
			1	10	100	
R5 Non-Illuminated						
1	DPST, On-Off, 20A Black	EG1527-ND	1.82	1.64	1.40	R5ABLKBLKEF0
1	DPDT, On-On, 20A Black	EG1528-ND	2.27	2.04	1.74	R5CBLKBLKEF0
2	DPST, On-Off, 20A Black	EG1529-ND	1.82	1.64	1.40	R5ABLKBLKFF0
1	DPDT, On-Off-On, 15A Black	EG1539-ND	2.95	2.66	2.26	R5DBLKBLKEF0
3	DPDT, On-Off-On, 15A Black	EG1540-ND	2.95	2.66	2.26	R5DBLKBLKCF0
4	DPDT, On-Off-On, 15A Black	EG1541-ND	2.95	2.66	2.26	R5DBLKBLKHF0
R5 Illuminated						
1	DPST, 125V Red Illum., 20A Black	EG1530-ND	2.95	2.66	2.26	R5BBLKREDEF1
2	DPST, 125V Red Illum., 20A Black	EG1531-ND	2.95	2.66	2.26	R5BBLKREDFF1
1	DPST, 125V Green Illum., 20A Black	EG1533-ND	2.95	2.66	2.26	R5BBLKGRNEF1
2	DPST, 125V Green Illum., 20A Black	EG1534-ND	2.95	2.66	2.26	R5BBLKGRNFF1
2	DPST, 230V Red Illum., 20A Black	EG1535-ND	2.95	2.66	2.26	R5BBLKREDFF2
2	DPST, 230V Green Illum., 20A Black	EG1536-ND	2.95	2.66	2.26	R5BBLKGRNFF2
2	DPST, 12VDC Red Illum., 20A Black	EG1537-ND	2.95	2.66	2.26	R5BBLKREDFF3
2	DPST, 12VDC Green Illum., 20A Black	EG1538-ND	2.95	2.66	2.26	R5BBLKGRNFF3
R6 Mini-Rocker						
1	SPST 10A, Black Without Marking	EG1525-ND	1.67	1.51	1.28	R6ABLKBLKEF
2	SPST 10A, Black With Marking	EG1526-ND	1.67	1.51	1.28	R6ABLKBLKFF

Dimensions in mm

Illuminated Toggle Switches

Fig.	Rating	Color	Circuit	Operation	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	20A/12VDC	Red	SPST	ON/OFF	67-1882-ND	3.66	3.30	2.81	CLS-TC11A12253R
2	20A/12VDC	Yellow	SPST	ON/OFF	67-1883-ND	3.21	2.89	2.47	CLS-TC11A12252Y
		Red			67-1884-ND	3.21	2.89	2.47	CLS-TC11A12252R
		Green			67-1885-ND	3.21	2.89	2.47	CLS-TC11A12252G
3	20A/12VDC	Yellow	SPST	ON/OFF	67-1886-ND	3.48	3.14	2.67	CLS-TC11A12190Y
		Red			67-1887-ND	3.48	3.14	2.67	CLS-TC11A12190R
4	25A/12VDC	Yellow	SPST	ON/OFF	67-1888-ND	4.77	4.30	3.66	CLS-TS11A12250Y
		Red			67-1889-ND	4.77	4.30	3.66	CLS-TS11A12250R
		Green			67-1890-ND	4.77	4.30	3.66	CLS-TS11A12250G
		Blue			67-1891-ND	8.64	7.78	6.63	CLS-TS11A12250B
5	20A/12VDC	Yellow	SPST	ON/OFF	67-1892-ND	5.61	5.05	4.31	CLS-TC11A12250Y
		Red			67-1893-ND	5.61	5.05	4.31	CLS-TC11A12250R
		Green			67-1894-ND	5.61	5.05	4.31	CLS-TC11A12250G
		Blue			67-1895-ND	9.48	8.54	7.27	CLS-TC11A12250B
6	10A/125VAC	Yellow	SPST	ON/OFF	67-1896-ND	3.48	3.14	2.67	CLS-TO11A125S00Y
		Red			67-1897-ND	3.48	3.14	2.67	CLS-TO11A125S00R
		Green			67-1898-ND	3.48	3.14	2.67	CLS-TO11A125S00G
7	30A/12VDC	Yellow	SPST	ON/OFF	67-1899-ND	5.34	4.81	4.10	CLS-TC11A12251Y
		Red			67-1900-ND	5.34	4.81	4.10	CLS-TC11A12251R
		Green			67-1901-ND	5.34	4.81	4.10	CLS-TC11A12251G
		Blue			67-1902-ND	9.21	8.29	7.07	CLS-TC11A12251B

Fig. 1

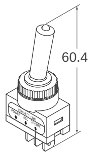

Fig. 2

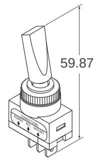

Fig. 3

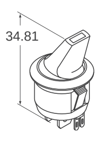

Fig. 4

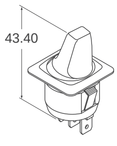

Fig. 5

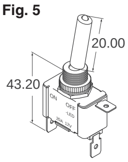

Fig. 6

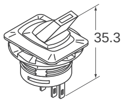

Fig. 7

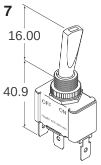

Illuminated Rocker Switches

Fig.	Rating	Color	Circuit	Operation	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
8	10A/125VAC	Yellow	SPST	ON/OFF	67-1903-ND	2.58	2.33	1.98	CLS-RR11A125500Y
		Red			67-1904-ND	2.58	2.33	1.98	CLS-RR11A125500R
		Green			67-1905-ND	2.58	2.33	1.98	CLS-RR11A125500G
		Blue			67-1906-ND	6.45	5.81	4.95	CLS-RR11A125500B
9	20A/12VDC	Yellow/Green	SPDT	ON/ON	67-1907-ND	4.89	4.41	3.75	CLS-RC12E12190YG
10	10A/125VAC	Yellow	SPST	ON/OFF	67-1908-ND	3.03	2.73	2.33	CLS-RC11A125190Y
		Red			67-1909-ND	3.03	2.73	2.33	CLS-RC11A125190R
		Green			67-1910-ND	3.03	2.73	2.33	CLS-RC11A125190G
		Blue			67-1911-ND	6.45	5.81	4.95	CLS-RC11A125190B
11	30A/12VDC	Yellow	SPST	ON/OFF	67-1912-ND	3.66	3.30	2.81	CLS-RO11A12250Y
		Red			67-1913-ND	3.66	3.30	2.81	CLS-RO11A12250R
		Green			67-1914-ND	3.66	3.30	2.81	CLS-RO11A12250G
		Blue			67-1915-ND	6.45	5.81	4.95	CLS-RO11A12250B
12	10A/125VAC/ 6A/250VAC	Yellow	SPST	ON/OFF	67-1916-ND	3.21	2.89	2.47	CLS-RC11A125191Y
		Red			67-1917-ND	3.21	2.89	2.47	CLS-RC11A125191R
		Green			67-1918-ND	3.21	2.89	2.47	CLS-RC11A125191G
		Blue			67-1919-ND	6.45	5.81	4.95	CLS-RC11A125191B
13	25A/12VDC	Yellow	SPST	ON/OFF	67-1920-ND	4.11	3.70	3.16	CLS-RC11A12250Y
		Red			67-1921-ND	4.11	3.70	3.16	CLS-RC11A12250R
		Green			67-1922-ND	4.11	3.70	3.16	CLS-RC11A12250G
		Blue			67-1923-ND	6.45	5.81	4.95	CLS-RC11A12250B
14	16A/125VAC	Yellow	SPST	ON/OFF	67-1924-ND	3.48	3.14	2.67	CLS-RR11A120250Y
		Red			67-1925-ND	3.48	3.14	2.67	CLS-RR11A120250R
		Green			67-1926-ND	3.48	3.14	2.67	CLS-RR11A120250G
		Blue			67-1927-ND	6.45	5.81	4.95	CLS-RR11A120250B
15	25A/12VDC	Yellow	SPST	ON/OFF	67-1928-ND	3.66	3.30	2.81	CLS-RR11A12250Y
		Red			67-1929-ND	3.66	3.30	2.81	CLS-RR11A12250R
		Green			67-1930-ND	3.66	3.30	2.81	CLS-RR11A12250G
		Blue			67-1931-ND	6.45	5.81	4.95	CLS-RR11A12250B
16	25A/12VDC	Yellow	SPST	ON/OFF	67-1932-ND	1.92	1.73	1.48	CLS-RR11A12251Y
		Red			67-1933-ND	1.92	1.73	1.48	CLS-RR11A12251R
		Green			67-1934-ND	1.92	1.73	1.48	CLS-RR11A12251G
		Blue			67-1935-ND	6.45	5.81	4.95	CLS-RR11A12251B
17	20A/12VDC	Yellow	SPST	ON/OFF	67-1936-ND	1.92	1.73	1.48	CLS-RR11A12252Y
		Red			67-1937-ND	1.92	1.73	1.48	CLS-RR11A12252R
		Green			67-1938-ND	1.92	1.73	1.48	CLS-RR11A12252G
		Blue			67-1939-ND	6.45	5.81	4.95	CLS-RR11A12252B
18	20A/12VDC	Yellow	SPST	ON/OFF	67-1940-ND	3.21	2.89	2.47	CLS-RO11A12251Y
		Red			67-1941-ND	3.21	2.89	2.47	CLS-RO11A12251R
		Green			67-1942-ND	3.21	2.89	2.47	CLS-RO11A12251G
		Blue			67-1943-ND	6.45	5.81	4.95	CLS-RO11A12251B

Fig. 8

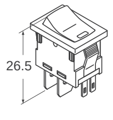

Fig. 9

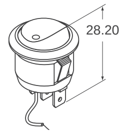

Fig. 10

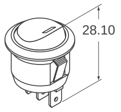

Fig. 11

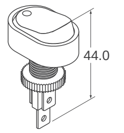

Fig. 12

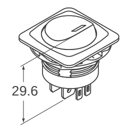

Fig. 13

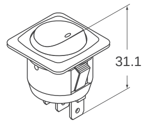

Fig. 14

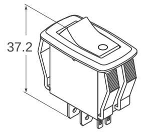

Fig. 15

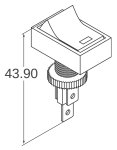

Fig. 16

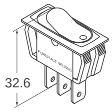

Fig. 17

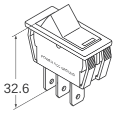

Fig. 18

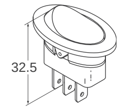

Illuminated Pushbutton Switches

Fig.	Rating	Color	Circuit	Action	Operation	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
19	3A/125VAC	Yellow	SPST	ALT/ACT	ON/OFF	67-1944-ND	3.21	2.89	2.47	CLS-PC11A125S01Y
		Red				67-1945-ND	3.21	2.89	2.47	CLS-PC11A125S01R
		Green				67-1946-ND	3.21	2.89	2.47	CLS-PC11A125S01G
		Blue				67-1947-ND	6.45	5.81	4.95	CLS-PC11A125S01B
20	3A/125VAC	Yellow	SPST	MOM	ON/OFF	67-1948-ND	3.48	3.14	2.67	CLS-PC11A125S00Y
		Red				67-1949-ND	3.48	3.14	2.67	CLS-PC11A125S00R
		Green				67-1950-ND	3.48	3.14	2.67	CLS-PC11A125S00G
		Blue				67-1951-ND	6.45	5.81	4.95	CLS-PC11A125S00B

Fig. 19

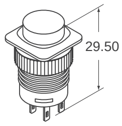

Fig. 20

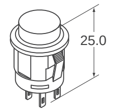

Switch Products

F Series Pushbutton Switches

Essential features of the F pushbutton switch are the bridge contact which is spring loaded, guaranteeing constant pressure on the contacts. **Travel:** 4.7/3.3mm **Operating Force:** 650 grams **Switching:** Voltage Maximum: 125VAC/30VDC (silver), 50VAC/30VDC (gold), Current Maximum: 0.5A (silver), 0.4VA (gold) **Contact Resistance:** 10 - 20mΩ **Contact Material:** Silver or Gold **Operating Temperature:** -40°C ~ 70°C

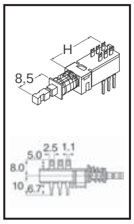

Circuit	Description	Dim. H (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Ind. Part No.
DPDT	Alt Act., 650gF, .5A, PCB-Mnt, Silver Plating	21	401-1223-ND	1.74	1.39	1.11	F2UEE
	Alt Act., 650gF, .4VA, PCB-Mnt, Gold Plating	21	401-1224-ND	4.54	3.63	2.88	F2UEE AU
	Mom., 650gF, .5A, PCB-Mnt, Silver Plating	21	401-1225-ND	1.72	1.38	1.09	F2UOA
4PDT	Alt Act., 650gF, .5A, PCB-Mnt, Silver Plating	33	401-1226-ND	3.02	2.42	1.92	F4UEE
	Alt Act., 650gF, .4VA, PCB-Mnt, Gold Plating	33	401-1227-ND	8.49	6.80	5.38	F4UEE AU
	Mom., 650gF, .5A, PCB-Mnt, Silver Plating	33	401-1228-ND	2.95	2.37	1.87	F4UOA

NE18 Series Power Pushbutton Switches

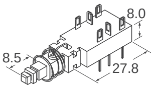

Switching: Voltage Maximum: 250VAC/100VDC Current Maximum: 6A **Operating Life:** ≥10^4 operations **Total Travel:** 4.7mm **Contact Material:** Silver Cadmium or Silver Nickel **Ambient Temperature:** -20°C ~ 70°C

Circuit	Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
DPST	Alternate Action, 950gF, with PC pins only	401-1211-ND	5.73	4.59	3.64	NE18/2AEEP (#41)
DPDT	Alternate Action, 950gF,with PC pins only	401-1209-ND	6.28	5.03	3.98	NE18/2UEEP (#42)
DPST	Alternate Action, 950gF, with Solder Lug and PC pins	401-1210-ND	5.60	4.49	3.55	NE18/2AEEX (#37)
DPDT	Alternate Action, 950gF, with Solder Lug and PC pins	401-1208-ND	7.77	6.22	4.93	NE18/2UEEX (#38)

PHA Series Pushbutton Switches

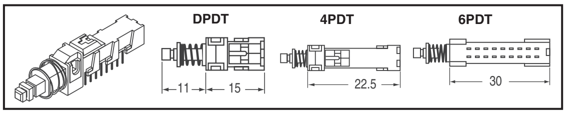

Small dimensions make it the ideal choice for today's demanding switch requirements. Non-shorting contacts. **Switching:** Voltage Maximum: 30VDC, Current Maximum: 100mADC **Operating Life:** 10^4 operations **Contact Resistance:** 20mΩ **Operating Temperature:** -10°C ~ 60°C

Circuit	Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
DPDT	Alternate Action, 170gF	401-1192-ND	1.49	1.20	.95	PHA2UEE
	Momentary Action, 170gF	401-1195-ND	1.28	1.02	.81	PHA2UOA
4PDT	Alternate Action, 170gF	401-1193-ND	1.98	1.59	1.26	PHA4UEE
	Momentary Action, 170gF	401-1196-ND	1.77	1.42	1.13	PHA4UOA
6PDT	Alternate Action, 170gF	401-1194-ND	2.74	2.19	1.74	PHA6UEE
	Momentary Action, 170gF	401-1197-ND	2.53	2.03	1.61	PHA6UOA

PN Series Pushbutton Switches

Fig. 1

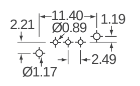

Fig. 2

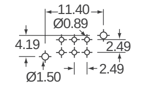

Fig. 3

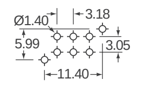

Fig. 4

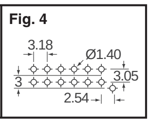

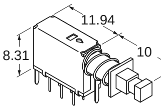

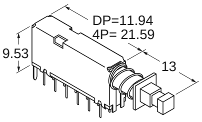

Specifications: • **Contact Rating:** 0.2 Amp @ 30VDC maximum • **Electrical Life:**10,000 Make-and-Break Cycles at Full Load • **Operating/Storage Temperature:** -10°C ~ 60°C. ***Materials:*** • **Frame:** Tin Plated Steel • **Terminals:** Silver Plated Brass • **Movable Contacts:** Silver Plated (or Clad) Phosphor Bronze • **Terminal Seal:** Epoxy

Fig.	Circuit	Description	Digi-Key Part No.	Price Each 1	100	500	ITT Industries Part No.
1	SPDT	Momentary, 230 gf, Nonshorting	CKN1188-ND*	.78	.67	.59	PN11SHNA03QE
		Alt. Action, 230 gf, Nonshorting	CKN1189-ND*	.85	.73	.64	PN12SHNA03QE
2	DPDT	Momentary, 330gf, Nonshorting	CKN1190-ND*	.90	.78	.68	PN21SJNA03QE
		Alt. Action, 330gf, Nonshorting	CKN1191-ND*	.95	.83	.72	PN22SJNA03QE
3	DPDT	Momentary, 300gf, Nonshorting	CKN1192-ND†	.90	.78	.68	PN21LENA03QE
		Alt. Action, 300gf, Nonshorting	CKN1193-ND†	.95	.83	.72	PN22LENA03QE
4	4PDT	Momentary, 300gf, Nonshorting	CKN1194-ND†	1.07	.91	.80	PN41LENA02QE
		Alt. Action, 300gf, Nonshorting	CKN1195-ND†	1.11	.94	.83	PN42LENA02QE

* Use PHA caps † Use PVA caps

Switch Caps

Switch Caps for F and NE18 Series

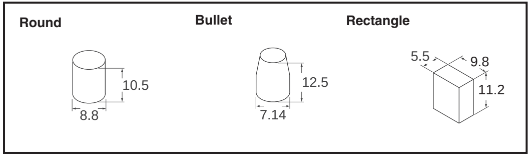

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Switch Caps for F Series and NE18 Series					
Round, Black, 8.8mm Diameter	401-1215-ND	.46	.37	.29	FG/BK
Round, Grey, 8.8mm Diameter	401-1217-ND	.50	.40	.32	FG/GY
Round, Red, 8.8mm Diameter	401-1218-ND	.30	.24	.19	FG/RD
Round, White, 8.8mm Diameter	401-1216-ND	.48	.39	.31	FG/WHT
Bullet, Black, 7mm Diameter	401-1212-ND	.22	.18	.14	FMR/BK
Bullet, Grey, 7mm Diameter	401-1214-ND	.22	.18	.14	FMR GY
Bullet, White, 7mm Diameter	401-1213-ND	.47	.38	.30	FMR/WHT
Rectangle, Black, 9.8 x 5.5mm	401-1219-ND	.44	.36	.29	FSC/BK
Rectangle, Grey, 9.8 x 5.5mm	401-1221-ND	.30	.24	.19	FSC/GY
Rectangle, Red, 9.8 x 5.5mm	401-1222-ND	.30	.24	.19	FSC/RD
Rectangle, White, 9.8 x 5.5mm	401-1220-ND	.47	.38	.30	FSC/WHT

Switch Caps for PHA Series

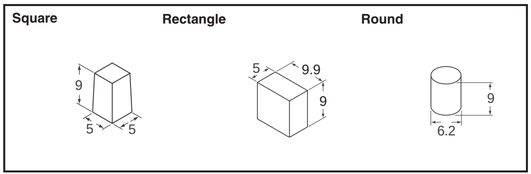

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Switch Caps for PHA Series					
Square, Indexed, Black, 5mm sq. x 9mm(H)	401-1198-ND	.51	.41	.33	G001A
Square, Indexed, Grey, 5mm sq. x 9mm (H)	401-1199-ND	.51	.41	.33	G001G
Square, Indexed, Red, 5mm sq. x 9mm (H)	401-1200-ND	.51	.41	.33	G001R
Rectangle, Black, 5mm(W) x 10mm(L)	401-1201-ND	.48	.39	.31	G002A(BLACK)
Rectangle, Grey, 5mm(W) x 10mm(L)	401-1202-ND	.48	.39	.31	G002G(GREY)
Rectangle, Red, 5mm(W) x 10mm(L)	401-1203-ND	.47	.38	.30	G002R(RED)
Round, Black, 6.2mm Dia.	401-1204-ND	.47	.38	.30	G003A(BLACK)
Round, Blue, 6.2mm Dia.	401-1207-ND	.47	.38	.30	G003B(BLUE)
Round, Grey, 6.2mm Dia.	401-1205-ND	.48	.39	.31	G003G(GREY)
Round, Red, 6.2mm Dia.	401-1206-ND	.48	.39	.31	G003R(RED)

ELUM Pushbutton Switch

Features: • Low height above PCB • Reliable self-cleaning contact • Central LED illumination • Long travel • Smooth feel **Materials:** • Fixed Contacts and Terminals: Stainless steel, silver plated with gold flash • Movable Contacts: Copper alloy, silver plated with gold flash • Base: Glass filled LCP (UL94V-0) • Actuator: Glass filled nylon 4/6 (UL94V-0) • Cover: Stainless steel **Electrical:** • Maximum Voltage: 50VDC • Maximum Current: 250mA **Mechanical:** • Operating Force: 250gF **Operating Environment:** • Operating Temperature: -40°C ~ 85°C • Operating Life: 30,000 Cycles

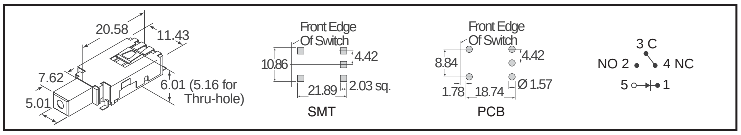

Terminal	LED Color	Maximum LED Intensity (mcd)†	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Illuminated Momentary Pushbuttons							
PCB	None	N/A	CKN9027-ND	4.20	3.36	2.66	ELUMOATHQC02
	Red	8	CKN9028-ND	5.01	4.02	3.18	ELUMOATHQ3C12
	Green	50	CKN9029-ND	5.01	4.02	3.18	ELUMOATHQ6C12
	Blue	1,500	CKN9030-ND	6.14	4.92	3.89	ELUMOATHQ7C12
	Green/Red	20	CKN9031-ND	5.37	4.30	3.41	ELUMOATHQ9C12
SMT	Red	8	CKN9032CT-ND	5.98	5.16	4.15	ELUMOASAQ3C12
			CKN9032TR-ND*		1491.30/450		ELUMOASAQ3C12
SMT	Green	50	CKN9033CT-ND	5.98	5.16	4.15	ELUMOASAQ6C12
			CKN9033TR-ND*		1491.30/450		ELUMOASAQ6C12
SMT	Blue	1,500	CKN9034CT-ND	7.30	6.29	5.06	ELUMOASAQ7C12
			CKN9034TR-ND*		1819.35/450		ELUMOASAQ7C12
SMT	Green/Red	20	CKN9035CT-ND	6.37	5.49	4.41	ELUMOASAQ2C12
			CKN9035TR-ND*		1411.20/400		ELUMOASAQ2C12

Terminal	LED Color	Maximum LED Intensity (mcd)†	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Illuminated Latching Pushbuttons							
PCB	None	N/A	CKN9036-ND	5.20	4.17	3.30	ELUMEETHQC02
	White	5,000	CKN9037-ND	5.90	4.73	3.74	ELUMEETHQ1C12
	Red	8	CKN9038-ND	5.24	4.20	3.32	ELUMEETHQ3C12
	Amber	50	CKN9039-ND	5.24	4.20	3.32	ELUMEETHQ5C12
	Green	50	CKN9040-ND	5.24	4.20	3.32	ELUMEETHQ6C12
	Blue	1,500	CKN9041-ND	5.44	4.36	3.45	ELUMEETHQ7C12
	Amber/Green	10	CKN9042-ND	5.60	4.48	3.55	ELUMEETHQ8C12
	Green/Red	20	CKN9043-ND	5.60	4.48	3.55	ELUMEETHQ9C12
SMT	Red	8	CKN9044CT-ND	6.23	5.37	4.32	ELUMEESAQ3C12
			CKN9044TR-ND*		1552.05/450		ELUMEESAQ3C12
SMT	Green	50	CKN9045CT-ND	7.33	6.32	5.08	ELUMEESAQ6C12
			CKN9045TR-ND*		1825.65/450		ELUMEESAQ6C12
SMT	Blue	1,500	CKN9046CT-ND	6.45	5.56	4.47	ELUMEESAQ7C12
			CKN9046TR-ND*		1606.95/450		ELUMEESAQ7C12
SMT	Green/Red	20	CKN9047CT-ND	6.61	5.70	4.58	ELUMEESAQ9C12
			CKN9047TR-ND*		1648.35/450		ELUMEESAQ9C12

* Tape and Reel † LED Forward Current: 20 mA LED Forward Voltage: 2.0 V Typical

Pushbutton Switches

Fig.	Circuit	Switching Function	Termination	Bushing	Cont. Mat'l.	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			ITT Industries Part No.
								1	25	100	
Tiny Pushbutton Switches											
1	SPST	Off-Mom	C	H9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN4000-ND	4.44	3.55	2.82	TP11SH9CBE
		Off-Mom	Z	H	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN4001-ND	4.25	3.41	2.70	TP11SHZQE
		Off-Mom	C	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN4006-ND	4.77	3.82	3.03	EP11SD1CBE
		Off-Mom	C	LT	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1716-ND‡	5.08	4.07	3.22	TP11LTCQE
		Off-Mom	Z	LT	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1717-ND‡	4.93	3.95	3.12	TP11LTZQE
		Off-Mom	C	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1719-ND	4.71	3.78	2.99	TP11MS9CBE
		Off-Mom	V3	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1720-ND	5.23	4.19	3.32	TP11MS9V3BE
		Off-Mom	C	SH8	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1723-ND	4.41	3.53	2.80	TP11SH8CQE
		Off-Mom	V3	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1726-ND	4.96	3.97	3.14	TP11SH9V3BE
		Off-Mom	C	SH	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1728-ND	4.44	3.55	2.82	TP11SHCBE
		Off-Mom	C	SH	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1729-ND	4.41	3.53	2.80	TP11SHCQE
		Off-Mom	Z	SH	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1730-ND	4.28	3.43	2.72	TP11SHZBE
	SPDT	On-Mom	C	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4043-ND	6.21	4.98	3.94	EP12SD1CBE
		On-Mom	Z	SH	Q	.340 x .360 x .340 (8.64 x 9.14 x 8.64)	CKN4053-ND	5.81	4.66	3.69	TP12SHZQE
		On-Mom	C	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1738-ND	6.00	4.80	3.80	TP12SH9CBE
		On-Mom	V3	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1739-ND	6.52	5.22	4.13	TP12SH9V3BE
		On-Mom	C	SH	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1740-ND	5.97	4.78	3.78	TP12SHCQE
	DPST	Off-Mom	C	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4044-ND	9.09	7.27	5.76	EP21SD1CBE
		Off-Mom	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4045-ND	10.07	8.06	6.38	EP21SD1ABE
		Off-Mom	Z	SH	Q	.340 x .360 x .340 (8.64 x 9.14 x 8.64)	CKN4054-ND	9.12	7.30	5.78	TP21SHZQE
2	SPST	Off-Mom	A	H8	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4002-ND	5.02	4.02	3.18	TP11SH8ABE
		Off-Mom	A	H9	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4003-ND	5.02	4.02	3.18	TP11SH9ABE
		Off-Mom	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4007-ND	5.30	4.24	3.36	EP11SD1ABE
		Off-Mom	A	LT9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1715-ND‡	5.69	4.56	3.61	TP11LT9ABE
		Off-Mom	A	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1718-ND	5.30	4.24	3.36	TP11MS9ABE
		Off-Mom	A	SH8	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1721-ND	4.99	4.00	3.16	TP11SH8AQE
		Off-Mom	A	SH9	K	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1724-ND	5.39	4.31	3.42	TP11SH9AKE
		Off-Mom	A	SH	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1727-ND	5.02	4.02	3.18	TP11SHABE
	SPDT	On-Mom	A	H8	Q	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4004-ND	6.55	5.24	4.15	TP12SH8AQE
		On-Mom	A	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4008-ND	6.73	5.39	4.27	EP12SD1ABE
		On-Mom	A	LT9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1731-ND‡	7.25	5.81	4.60	TP12LT9ABE
		On-Mom	A	MS9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1732-ND	6.86	5.49	4.35	TP12MS9ABE
		On-Mom	A	SH8	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1733-ND	6.58	5.27	4.17	TP12SH8ABE
		On-Mom	A	SH8	G	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1734-ND	6.98	5.59	4.42	TP12SH8AGE
		On-Mom	A	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1735-ND	6.58	5.27	4.17	TP12SH9ABE
		On-Mom	A	SH9	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1736-ND	6.55	5.24	4.15	TP12SH9AQE
	DPST	Off-Mom	A	SH9	B	.320 x .360 x .340 (8.13 x 9.14 x 8.64)	CKN1741-ND	10.40	8.33	6.59	TP21SH9ABE
3	SPST	Off-Mom	AV	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4009-ND	5.54	4.44	3.51	EP11SD1AVBE
		Off-Mom	AV	SH8	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1722-ND	5.02	4.02	3.18	TP11SH8AVBE
		Off-Mom	AV	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1725-ND	5.02	4.02	3.18	TP11SH9AVBE
	SPDT	On-Mom	AV	H8	B	.320 x .200 x .352 (8.13 x 5.08 x 8.94)	CKN4005-ND	6.58	5.27	4.17	TP12SH8AVBE
		On-Mom	AV	SH9	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1737-ND	6.58	5.27	4.17	TP12SH9AVBE
	DPST	Off-Mom	AV	D1	B	.320 x .200 x .365 (8.13 x 5.08 x 9.27)	CKN4046-ND	10.43	8.35	6.61	EP21SD1AVBE
Alternate Action and Momentary Pushbutton Switches											
1	SPDT	On-Mom	C	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4010-ND	8.93	7.15	5.66	8121SHCGE
		On-Mom	Z	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4011-ND	8.78	7.03	5.57	8121SHZGE
		On-Mom	V3	D3	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4012-ND	6.46	5.17	4.09	8125SD3V3BE
		On-Mom	Z	H	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4022-ND	5.78	4.63	3.67	8125SHZBE
		On-Mom	C	H	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4029-ND	5.94	4.75	3.77	8125SHCBE
		On-Mom	C	D1	G	.500 x .260 x .350 (12.70 x 6.60 x 8.89)	CKN4041-ND	9.43	7.55	5.97	E121SD1CGE
		On-Mom	Z	Y	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1611-ND	8.78	7.03	5.57	8121LY4ZGE
		On-Mom	V3	D3	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1612-ND	9.46	7.57	5.99	8121MD3V3GE
		On-Mom	V3	D3	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1613-ND	9.46	7.57	5.99	8121SD3V3GE
		On-Mom	V3	D8	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1614-ND	9.46	7.57	5.99	8121SD8V3GE
		On-Mom	V3	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1619-ND	9.46	7.57	5.99	8121SD9V3GE
		On-Mom	V6	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1620-ND	9.46	7.57	5.99	8121SD9V6GE
		On-Mom	C	D	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1622-ND	8.90	7.13	5.64	8121SDCGE
		On-Mom	Z	D	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1623-ND	8.78	7.03	5.57	8121SDZGE
		On-Mom	Z3	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1626-ND	9.06	7.25	5.74	8121SHZ3GE
		On-Mom	Z	Y4	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1627-ND	8.78	7.03	5.57	8121SY4ZGE
		On-Mom	Z	Y	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1628-ND	8.78	7.03	5.57	8121SYZGE
		On-Mom	V3	D9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1631-ND	6.46	5.17	4.09	8125SD9V3BE
		On-Mom	C	D	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1632-ND	5.94	4.75	3.77	8125SDCBE
		On-Mom	Z	Y	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1633-ND	5.78	4.63	3.67	8125SYZBE
		On-Mom	C	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1642-ND	11.69	9.36	7.41	U811SHCGE
		On-Mom	Z	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1643-ND	11.54	9.23	7.31	U811SHZGE
	DPDT	On-Mom	Z	H	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4023-ND	13.56	10.85	8.59	8221SHZGE
		On-Mom	Z	H	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4024-ND	8.14	6.52	5.16	8225SHZBE
		On-Mom	C	D1	G	.500 x .450 x .350 (12.70 x 11.43 x 8.89)	CKN4042-ND	15.15	12.12	9.60	E221SD1CGE
		On-Mom	V3	D9	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1635-ND	10.93	9.44	7.95	8221SD9V3GE
		On-Mom	C	D	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1636-ND	13.80	11.04	8.74	8221SDCGE
		On-Mom	C	H	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1637-ND	13.80	11.04	8.74	8221SHCGE
		On-Mom	Z	H	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1644-ND	13.56	10.85	8.59	U821SHZGE
	3PDT	On-Mom	Z	H	G	.500 x .650 x .475 (12.70 x 16.51 x 12.07)	CKN1639-ND	14.61	12.62	10.63	8321SHZGE
	4PDT	On-Mom	Z	H	G	.500 x .850 x .475 (12.70 x 21.59 x 12.07)	CKN1640-ND	18.47	15.96	13.44	8421SHZGE
2	SPDT	On-Mom	A	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4013-ND	9.52	7.62	6.03	8121SD9AGE
		On-Mom	A	D9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4014-ND	6.52	5.22	4.13	8125SD9ABE
		On-Mom	A2	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1615-ND	9.70	7.76	6.15	8121SD9A2GE
		On-Mom	A4	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1616-ND	9.70	7.76	6.15	8121SD9A4GE
		On-Mom	R2	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1617-ND	10.01	8.01	6.34	8121SD9R2GE
		On-Mom	R	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1618-ND	10.01	8.01	6.34	8121SD9RGE
		On-Mom	A	D	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1621-ND	9.52	7.62	6.03	8121SDAGE
		On-Mom	A	H9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1624-ND	9.52	7.62	6.03	8121SH9AGE
		On-Mom	A	D8	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1629-ND	6.52	5.22	4.13	8125SD8ABE
		On-Mom	A	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1641-ND	9.52	7.62	6.03	U811SD9AGE
	DPDT	On-Mom	A	D9	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1634-ND	10.93	9.44	7.95	8221SD9AGE
3	SPDT	On-Mom	AV2	D9	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4015-ND	9.70	7.76	6.15	8121SD9AV2GE
		On-Mom	AV2	D9	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4030-ND	6.70	5.37	4.25	8125SD9AV2BE
		On-Mom	AV2	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1625-ND	9.70	7.76	6.15	8121SHAV2GE
		On-Mom	AV2	D8	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1630-ND	6.70	5.37	4.25	8125SD8AV2BE
	DPDT	On-Mom	AV2	D9	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1638-ND	10.13	8.11	6.42	8225SD9AV2BE
4	SPDT	On-On	Z	H	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4016-ND	6.24	5.00	3.96	8161SHZQE2
		On-Mom	Z	H	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4018-ND	6.24	5.00	3.96	8168LHZQE2
		On-Mom	Z	H	G	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4031-ND	6.67	5.34	4.23	8168SHZGE2
		On-On	Z	H	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1647-ND	6.67	5.34	4.23	8161SHZGE2
		On-Mom	Z	H	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1649-ND	6.27	5.02	3.98	8168LHZBE2
		On-Mom	Z	H	Q	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1655-ND	6.24	5.00	3.96	8168SHZQE2
	DPDT	On-On	Z	H	G	.500 x .450 x .450 (12.70 x 11.43 x 11.43)	CKN4032-ND	12.82	10.26	8.13	8261SHZGE2
		On-On	Z	H	Q	.500 x .450 x .450 (12.70 x 11.43 x 11.43)	CKN1656-ND	11.35	9.09	7.19	8261SHZQE2
5	SPDT	On-On	A	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1646-ND	7.01	5.61	4.44	8161SH9ABE2
		On-Mom	A	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1648-ND	7.01	5.61	4.44	8168LH9ABE2
		On-Mom	A	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1650-ND	7.01	5.61	4.44	8168SH9ABE2
		On-Mom	A	H9	Q	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1651-ND	6.98	5.59	4.42	8168SH9AQE2
		On-Mom	A	H	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1653-ND	7.01	5.61	4.44	8168SHABE2
		On-Mom	A	H	Q	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1654-ND	6.98	5.59	4.42	8168SHAQE2
6	SPDT	On-Mom	AV2	H9	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1652-ND	7.19	5.76	4.56	8168SH9AV2BE2

Contact Materials Options

B **Contacts & Terminals:** Copper alloy, with gold plate over nickel plate **Rating:** 0.4 VA maximum @ 20VAC or DC maximum

K **Contacts & Terminals:** Copper alloy, with gold plate over nickel plate **Terminals:** Copper alloy, with tin-lead alloy over nickel plate **Rating:** 0.4 VA maximum @ 20VAC or DC maximum

Q **Contacts:** Coin silver, silver plated **Terminals:** Copper alloy, silver plated **Rating:** 1A @ 120 VAC; 8060 Series — 6A @ 120VAC or 3A @ 250VAC; 8500 Series — 1A @ 120VAC.

G **Contacts:** Coin silver, with gold plate over nickel plate **Terminals:** Copper alloy, with gold plate over nickel plate **Rating:** 0.4 VA maximum @ 20VAC or DC maximum or 1A @ 120VAC or 28VDC.

Fig. 1

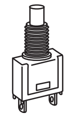

Fig. 2

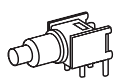

Fig. 3

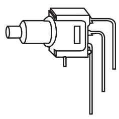

Fig. 4

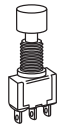

Comes standard with black cap

Fig. 5

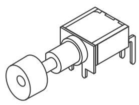

Fig. 6

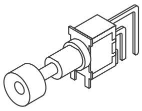

Fig. 7

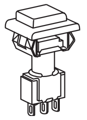

Fig. 8

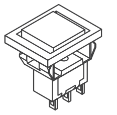

Fig. 9

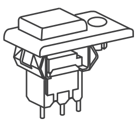

Fig. 10

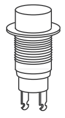

Fig. 11

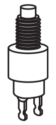

Fig. 12

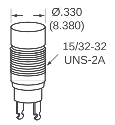

Termination Options

A / A2
A4 (reversed term.)

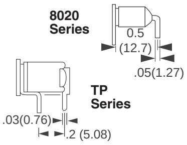

AV

EP Series

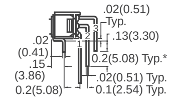

• **Middle terminal missing on CKN4009-ND**

AV2

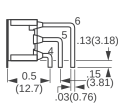

C **8020 Series**

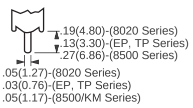
.19(4.80)-(8020 Series)
.13(3.30)-(EP, TP Series)
.27(6.86)-(8500 Series)
.05(1.27)-(8020 Series)
.03(0.76)-(EP, TP Series)
.05(1.17)-(8500/KM Series)

R
R2 (reversed term.)

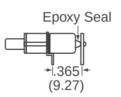

V3 / V6

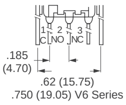

W

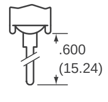

(Continued)

Pushbutton Switches *(Cont.)*

Fig.	Circuit	Switching Function	Termi-nation	Bushing	Cont. Mat'l.	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Snap-In With Black Frame											
7	SPST	Off-Mom	Z	Wht Cap	B	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1609-ND	5.60	4.49	3.55	TP11J81ZBE12
		Off-Mom	Z	Blk Cap	Q	.320 x .200 x .340 (8.13 x 5.08 x 8.64)	CKN1610-ND	5.57	4.46	3.53	TP11J81ZQE22
	SPDT	Off-Mom	X	—	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1657-ND	6.09	4.88	3.86	8531J81ZQE22
		On-Mom	Z	Wht Cap	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1597-ND*	10.01	8.01	6.34	8121J81ZGE12
		On-Mom	Z	Blk Cap	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4025-ND	10.01	8.01	6.34	8121J81ZGE22
		On-Mom	Z	Blk Cap	G	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1599-ND	10.01	8.01	6.34	8121J83ZGE22
		On-Mom	Z3	Blk Cap	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1601-ND	7.28	5.83	4.62	8125J81Z3BE22
		On-Mom	Z	Blk Cap	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN4026-ND	7.01	5.61	4.44	8125J81ZBE22
		On-Mom	Z	Blk Cap	B	.500 x .270 x .410 (12.70 x 6.86 x 10.41)	CKN1603-ND	7.01	5.61	4.44	8125J83ZBE22
		On-On	Z	Blk Cap	G	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN4033-ND	5.30	4.24	3.36	8161J81ZGE22
		On-On	Z	Blk Cap	Q	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN1604-ND	7.93	6.35	5.02	8161J81ZQE22
		On-Mom	Z	Blk Cap	B	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN1607-ND	7.96	6.37	5.04	8168J81ZBE22
		On-Mom	Z	Blk Cap	G	.500 x .270 x .430 (12.70 x 6.86 x 10.92)	CKN4034-ND	8.36	6.69	5.30	8168J81ZGE22
		On-Mom	Z	Blk Cap	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN4017-ND	7.93	6.35	5.02	8168J81ZQE22
	DPDT	On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4027-ND	14.78	11.83	9.37	8221J81ZGE22
		On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1608-ND	10.84	9.37	7.89	8221J83ZGE22
		On-Mom	Z	Blk Cap	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN4028-ND	9.36	7.50	5.93	8225J81ZBE22
		On-On	Z	Blk Cap	G	.500 x .450 x .450 (12.70 x 11.43 x 11.43)	CKN4035-ND	14.51	11.61	9.19	8261J81ZGE22
8	SPDT	On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1600-ND*	10.03	8.67	7.30	8121J85ZGE223
		On-On	Z	Blk Cap	G	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN1605-ND*	11.75	9.41	7.45	8161J86ZGE223
		On-On	Z	Blk Cap	Q	.500 x .270 x .450 (12.70 x 6.86 x 11.43)	CKN1606-ND*	11.32	9.06	7.18	8161J86ZQE223
9	SPDT	On-Mom	Z	Blk Cap	G	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1598-ND	10.19	8.16	6.46	8121J82ZGE22
		On-Mom	Z	Blk Cap	B	.500 x .450 x .410 (12.70 x 11.43 x 10.41)	CKN1602-ND	7.19	5.76	4.56	8125J82ZBE22
Subminiature Pushbutton Switches											
10	SPST	Off-Mom	X	Blk Cap	Q	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1121-ND	5.48	4.39	3.47	8532T1ZQE2
		Off-Mom	X	Blk Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1122-ND	5.48	4.39	3.47	8532T1ZBE2
		Off-Mom	X	Red Cap	Q	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1123-ND	5.48	4.39	3.47	8532T1ZQE3
		Off-Mom	X	Red Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1124-ND	5.78	4.63	3.67	8532T1ZBE3
		Off-Mom	X	Wht Cap	Q	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1222-ND	5.48	4.39	3.47	8532T1ZQE1
		Off-Mom	X	Wht Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1223-ND	5.48	4.39	3.47	8532T1ZBE1
		Off-Mom	C	Blk Cap	B	.660 x .469 Dia. (16.76 x 11.91 Dia.)	CKN1666-ND	5.63	4.51	3.57	8532T1CBE2
11	SPST	Off-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4036-ND	4.71	3.78	2.99	8531MCQE2
		On-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4037-ND	5.26	4.21	3.34	8533MCQE2
		On-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN1389-ND	4.56	3.65	2.89	8533MZQE2
		On-Mom	C	H	B	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN1390-ND	5.11	4.09	3.24	8533MZBE2
		Off-Mom	X	8-40 uns	Q	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4038-ND	5.57	4.46	3.53	8631ZQD2
		Off-Mom	X	8-40 uns	B	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4039-ND	5.57	4.46	3.53	8631ZBD2
		Off-Mom	C	8-40 uns	B	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN4040-ND	5.72	4.58	3.63	8631CBD2
		Off-Mom	C	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4019-ND	4.71	3.78	2.99	8531SCQE2
		Off-Mom	X	H	Q	.427 x .375 Dia. (10.85 x 9.53 Dia.)	CKN4020-ND	4.56	3.65	2.89	8531MZQE2
		Off-Mom	X	H	Q	.315 x .375 Dia. (8.00 x 9.53 Dia.)	CKN4021-ND	4.56	3.65	2.89	8532MZQE2
		Off-Mom	05	H	B	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4057-ND	3.67	2.94	2.33	KM1101RR05B
		Off-Mom	05	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4058-ND	2.66	2.13	1.69	KM1101RR05Q
		Off-Mom	C	H	B	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4059-ND	3.67	2.94	2.33	KM1101RR02B
		Off-Mom	C	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4060-ND	2.66	2.13	1.69	KM1101RR02Q
		Off-Mom	C	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN1714-ND	3.21	2.58	2.04	KM1101RR02QE
		On-Mom	05	H	Q	.68 x .388 Dia. (17.27 x 9.86 Dia.)	CKN4064-ND	2.66	2.13	1.69	KM3301RR05Q
		Off-Mom	X	S	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1658-ND	4.56	3.65	2.89	8531SZQE2
		Off-Mom	C	M	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1662-ND	4.71	3.78	2.99	8532MCQE2
		Off-Mom	X	M	B	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1663-ND	4.56	3.65	2.89	8532MZBE2
		Off-Mom	X	M	G	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1664-ND	4.96	3.97	3.14	8532MZGE2
		Off-Mom	X	S	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1665-ND	4.56	3.65	2.89	8532SZQE2
		On Mom	C	M	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1669-ND	5.26	4.21	3.34	8534MCQE2
		On Mom	X	M	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1670-ND	5.11	4.09	3.24	8534MZQE2
		Off-Mom	X	M	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1672-ND	4.56	3.65	2.89	8551MZQE2
		Off-Mom	C	8-40 uns	G	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN1675-ND	6.12	4.90	3.88	8631CGD2
		Off-Mom	C	8-40 uns	Q	.248 x .250 Dia. (6.30 x 6.35 Dia.)	CKN1676-ND	5.72	4.58	3.63	8631CQD2
		Off-Mom	C	8-40 uns	B	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1677-ND	5.72	4.58	3.63	8632CBD2
		Off-Mom	C	8-40 uns	Q	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1678-ND	5.72	4.58	3.63	8632CQD2
		Off-Mom	X	8-40 uns	B	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1679-ND	5.57	4.46	3.53	8632ZBD2
		Off-Mom	X	8-40 uns	Q	.355 x .250 Dia. (9.02 x 6.35 Dia.)	CKN1680-ND	5.57	4.46	3.53	8632ZQD2
		On-Mom	X	8-40	Q	.345 x .250 Dia. (8.76 x 6.35 Dia.)	CKN1681-ND	6.09	4.88	3.86	8633ZQE2
12	SPST	Off-Mom	C	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1659-ND	5.63	4.51	3.57	8531TCQE2
		Off-Mom	X	T	B	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1660-ND	5.48	4.39	3.47	8531TZBE2
		Off-Mom	X	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1661-ND	5.48	4.39	3.47	8531TZQE2
		Off-Mom	C	T	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1667-ND	5.63	4.51	3.57	8532TCQE2
		Off-Mom	X	T	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1668-ND	5.48	4.39	3.47	8532TZQE2
		On Mom	X	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1671-ND	6.03	4.83	3.82	8534TZQE2
		Off-Mom	X	T	Q	.427 x .469 Dia. (10.8 x 11.91 Dia.)	CKN1673-ND	5.48	4.39	3.47	8551TZQE2
		Off-Mom	X	T	Q	.315 x .469 Dia. (8.00 x 11.91 Dia.)	CKN1674-ND	5.48	4.39	3.47	8552TZQE2
Process Sealed Momentary Pushbutton Switches											
1	SPST	Mom	C	D1	Q	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1702-ND	4.77	3.82	3.03	EP11SD1CQE
		Mom	V3	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1703-ND	5.30	4.24	3.36	EP11SD1V3BE
		Mom	W	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1704-ND	5.08	4.07	3.22	EP11SD1WBE
	SPDT	On-Mom	C	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1684-ND	6.83	5.46	4.33	E112SD1CBE
		On-Mom	C	D1	Q	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1685-ND	6.83	5.46	4.33	E112SD1CQE
		On-Mom	V3	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1686-ND	8.02	6.42	5.08	E112SD1V3BE
		On-Mom	Z	Y	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1687-ND	6.67	5.34	4.23	E112SYZBE
		On-Mom	V3	D1	G	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1690-ND	10.62	8.50	6.73	E121SD1V3GE
		On-Mom	V3	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1693-ND	7.74	6.20	4.91	E125SD1V3BE
		On-Mom	C	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1708-ND	6.21	4.98	3.94	EP12FPD1CBE
		On-Mom	V3	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1712-ND	6.73	5.39	4.27	EP12SD1V3BE
2	SPST	Mom	A	D1	K	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1696-ND	5.63	4.51	3.57	EP11FPD1AKE
		Mom	A	D1	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1698-ND	5.72	4.58	3.63	EP11SD1AGE
		Mom	A	D1	K	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1699-ND	5.63	4.51	3.57	EP11SD1AKE
		Mom	A	D1	Q	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1700-ND	5.30	4.24	3.36	EP11SD1AQE
		Mom	A	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1695-ND	5.30	4.24	3.36	EP11FPD1ABE
	SPDT	On-Mom	A	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1682-ND	7.40	5.93	4.69	E112SD1ABE
		On-Mom	A	D1	G	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1688-ND	10.01	8.01	6.34	E121SD1AGE
		On-Mom	A	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1691-ND	7.13	5.71	4.52	E125SD1ABE
		On-Mom	A	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1705-ND	6.73	5.39	4.27	EP12FPD1ABE
		On-Mom	A	D1	K	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1706-ND	7.07	5.66	4.48	EP12FPD1AKE
		On-Mom	A	D1	G	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1709-ND	7.16	5.73	4.54	EP12SD1AGE
		On-Mom	A	D1	K	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1710-ND	7.07	5.66	4.48	EP12SD1AKE
3	SPST	Mom	AV	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1697-ND	5.54	4.44	3.51	EP11FPD1AVBE
		Mom	AV	D1	K	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1701-ND	5.87	4.70	3.73	EP11SD1AVKE
	SPDT	On-Mom	AV2	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1683-ND	7.59	6.08	4.81	E112SD1AV2BE
		On-Mom	AV2	D1	G	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1689-ND	10.19	8.16	6.46	E121SD1AV2GE
		On-Mom	AV2	D1	B	.500 x .260 x .350 (12.7 x 6.60 x 8.89)	CKN1692-ND	7.31	5.86	4.64	E125SD1AV2BE
		On-Mom	AV	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1707-ND	6.98	5.59	4.42	EP12FPD1AVBE
		On-Mom	AV	D1	B	.320 x .200 x .350 (8.13 x 5.08 x 8.89)	CKN1711-ND	6.98	5.59	4.42	EP12SD1AVBE
	DPDT	On-Mom	AV2	D1	G	.500 x .450 x .350 (12.7 x 11.43 x 8.89)	CKN1694-ND	11.92	10.30	8.67	E221SD1AV2GE
Female Connector for Z3 Terminals							CKN1645-ND	.47	.38	.30	530100000

* Red LED ‡ .120 Diameter Plunger

Termination Options *(Cont.)*

X

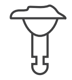

Solder Lug

Z

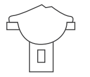

Solder Eyelet

Z3

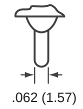

05

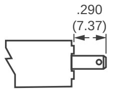

Bushing Options

Threaded bushings include hardware

D

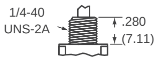

D1 (Unthreaded)

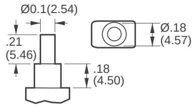

D3 (Unthreaded)

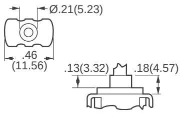

D8 (Unthreaded)

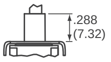

D9 (Unthreaded, flat)

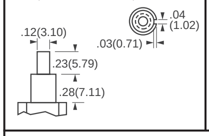

H8 (Unthreaded)

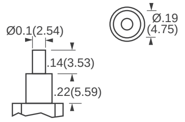

H 1/4-40 NS
H9 (Unthreaded)
SH 10-48UNS-2A

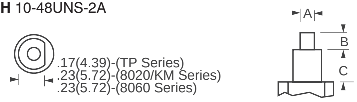

Bushing Option	ITT Ind. Series	Dimensions – Inch (mm) A	B	C
H, H9	TP	.100 (2.54)	.139 (3.53)	.220 (5.59)
H	8020	.122 (3.10)	.218 (5.54)	.250 (6.35)
H	8060	.122 (3.10)	.280 (7.11)	.300 (7.62)
SH	TP	.100 (2.54)	.155 (3.94)	.220 (5.59)

LT
LT9 (unthreaded)

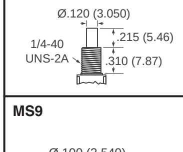

M

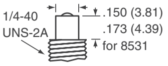

MS9

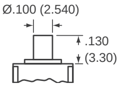

S

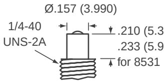

SH 10-48UNS-2A
SH8 (unthreaded)
SH9 (unthreaded, flat)

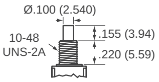

T

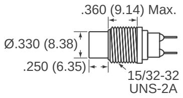

Y

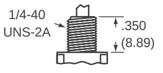

Y4

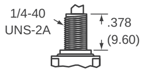

Pushbutton Switches

Fig. 1

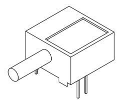

Fig. 2

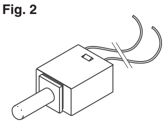

Fig. 3

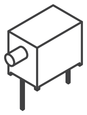

Fig. 4

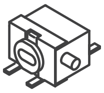

Fig. 5

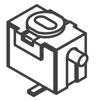

Fig. 6

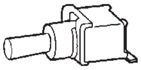

Fig.	Circuit	Switching Function	Options (see diagrams)		Dimensions Inch (mm) L x W x D	Digi-Key Part No.	Price Each			ITT Industries Part No.
			Termination	Contact Material			1	25	100	
Subminiature Pushbutton Switches										
1	SPDT	Off-Mom	C	B	.52 x .54 x .385 (13.21 x 13.72 x 9.78)	CKN4062-ND	5.30	4.24	3.36	KM1202A08BE
	SPDT	Off-Mom	C	Q	.52 x .54 x .385 (13.21 x 13.72 x 9.78)	CKN4061-ND	3.98	3.19	2.52	KM1202A08QE
Panel Mount Detector Switches										
2	SPST	Off-Mom	Wires	B	.710 x .600 x .400 (18.03 x 15.24 x 10.16)	CKN4085-ND	4.50	3.60	2.85	KDS11
	SPST	On-Mom	Wires	B	.710 x .600 x .400 (18.03 x 15.24 x 10.16)	CKN4086-ND	5.25	4.20	3.33	KDS33

Contact Materials

B Contacts & Terminals: Copper alloy, with gold plate over nickel plate. Rating: 0.4VA maximum @ 20VAC or DC maximum

Q Contacts: Coin silver, silver plated. Terminals: Copper alloy, silver plated. Rating: 1A @ 120VAC

Fig.	Circuit	Switching Function	Actuator Height Inch (mm)	Terminals	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel Pricing 600	ITT Industries Part No.
						1	25	100			
Ultra-Miniature Pushbutton Switches (Washable)											
3	SPST	Off-Mom	.078 (1.98)	PC Mount	CKN4048-ND	5.69	4.56	3.61	—	—	GP11MCKE
	SPST	Off-Mom	.078 (1.98)	PC Mount	CKN9056-ND† ***NEW!***	5.69	4.56	3.61	—	—	GP11MCBE
	SPST	Off-Mom	.078 (1.98)	PC Mount	CKN4049-ND	6.40	5.12	4.06	—	—	GP11MAKE
	SPST	Off-Mom	.078 (1.98)	PC Mount	CKN9055-ND† ***NEW!***	6.40	5.12	4.06	—	—	GP11MABE
	SPDT	On-Mom	.078 (1.98)	PC Mount	CKN9060-ND† ***NEW!***	6.24	5.00	3.96	—	—	GP12MCBE
4	SPDT	On-Mom	.078 (1.98)	Gull Lead	CKN4079CT-ND	6.76	5.83	4.68	CKN4079TR-ND	2245.32	GP12MSCKE(T&R)
	SPDT	On-Mom	.078 (1.98)	Gull Lead	CKN9062CT-ND† ***NEW!***	6.76	5.83	4.68	CKN9062TR-ND† ***NEW!***	2245.20	GP12MSCBE(T&R)
	SPST	Off-Mom	.078 (1.98)	Gull Lead	CKN4076CT-ND	6.88	5.93	4.77	CKN4076TR-ND	2286.36	GP11MSAKE(T&R)
	SPST	Off-Mom	.078 (1.98)	Gull Lead	CKN9058CT-ND† ***NEW!***	6.88	5.93	4.77	CKN9058TR-ND† ***NEW!***	2286.60	GP11MSABE(T&R)
	SPDT	On-Mom	.078 (1.98)	Gull Lead	CKN4078CT-ND	7.45	6.43	5.16	CKN4078TR-ND	2476.44	GP12MSAKE(T&R)
	SPDT	On-Mom	.078 (1.98)	Gull Lead	CKN9061CT-ND† ***NEW!***	7.45	6.43	5.16	CKN9061TR-ND† ***NEW!***	2476.20	GP12MSABE(T&R)
	SPST	Off-Mom	.078 (1.98)	Gull Lead	CKN4075CT-ND	8.19	7.06	5.67	CKN4075TR-ND	2720.52	GP11MSA1KE(T&R)
	SPST	Off-Mom	.078 (1.98)	Gull Lead	CKN9057CT-ND† ***NEW!***	8.19	7.06	5.67	CKN9057TR-ND† ***NEW!***	2720.40	GP11MSA1BE(T&R)
5	SPST	Off-Mom	.058 (1.47)	Gull Lead	CKN4077CT-ND	8.60	7.41	5.96	—	—	GP11MSV1KE(T&R)
	SPST	Off-Mom	.058 (1.47)	Gull Lead	CKN9059CT-ND† ***NEW!***	8.60	7.41	5.96	CKN9059TR-ND† ***NEW!***	2857.80	GP11MSV1BE(T&R)
	SPDT	On-Mom	.058 (1.47)	Gull Lead	CKN4080CT-ND	9.11	7.85	6.31	CKN4080TR-ND	3027.24	GP12MSV1KE(T&R)
	SPDT	On-Mom	.058 (1.47)	Gull Lead	CKN9063CT-ND† ***NEW!***	9.11	7.85	6.31	CKN9063TR-ND† ***NEW!***	3027.00	GP12MSV1BE(T&R)
Surface Mount (Process Sealed, Washable)											
6	SPST	Off-Mom	.215 (5.46)	Gull Lead	CKN4055CT-ND	6.05	5.22	4.20	CKN4055TR-ND	2012.04	EP11SD1SAKE(T&R)
	SPST	Off-Mom	.215 (5.46)	Gull Lead	CKN9052CT-ND† ***NEW!***	6.05	5.22	4.20	CKN9052TR-ND† ***NEW!***	2011.80	EP11SD1SAPE(T&R)
	SPDT	On-Mom	.215 (5.46)	Gull Lead	CKN4056CT-ND	7.45	6.42	5.16	CKN4056TR-ND	2474.28	EP12SD1SAKE(T&R)
	SPDT	On-Mom	.215 (5.46)	Gull Lead	CKN9054CT-ND† ***NEW!***	7.45	6.42	5.16	CKN9054TR-ND† ***NEW!***	2474.40	EP12SD1SAPE(T&R)
	SPST	Off-Mom	Flush	Gull Lead	CKN9021CT-ND	6.05	5.22	4.20	—	—	EP11FPD1SAKE(T&R)
	SPST	Off-Mom	Flush	Gull Lead	CKN9051CT-ND† ***NEW!***	6.05	5.22	4.20	CKN9051TR-ND† ***NEW!***	2011.80	EP11FPD1SAPE(T&R)
	SPDT	On-Mom	Flush	Gull Lead	CKN9022CT-ND	7.45	6.42	5.16	CKN9022TR-ND	2474.28	EP12FPD1SAKE(T&R)
	SPDT	On-Mom	Flush	Gull Lead	CKN9053CT-ND† ***NEW!***	7.45	6.42	5.16	CKN9053TR-ND† ***NEW!***	2474.40	EP12FPD1SAPE(T&R)

† ***RoHS Compliant***

Pushbutton Switch Accessories

Cap Color	Cap Diameter Inch (mm)	Cap Height - Dim. A Inch (mm)	Plunger Diameter Inch (mm)	Digi-Key Part No.	Price Each			ITT Industries Part No.
					1	25	100	
Fig. 1 Pushbutton Caps for 8X2X, 8X6X, EX1X, EX2X, KM11, TP and L								
White Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1103-ND	.75	.60	.48	752701000
Black Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1104-ND	.47	.38	.30	752702000
Red Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1105-ND	.75	.60	.48	752703000
Orange Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1106-ND	.56	.45	.36	752704000
Yellow Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1107-ND	.56	.45	.36	752705000
Green Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1108-ND	.56	.45	.36	752706000
Blue Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1109-ND	.56	.45	.36	752707000
Brown Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1110-ND	.54	.44	.35	752708000
Gray Gloss	.375 (9.53)	.250 (6.35)	.122 (3.10)	CKN1111-ND	.56	.45	.36	752709000
White Gloss	.310 (7.87)	.250 (6.35)	.122 (3.10)	CKN1397-ND	1.00	.80	.64	801801000
Black Gloss	.310 (7.87)	.250 (6.35)	.122 (3.10)	CKN1398-ND	.47	.38	.30	801802000
Red Gloss	.310 (7.87)	.250 (6.35)	.122 (3.10)	CKN1399-ND	1.00	.80	.64	801803000
White Gloss	.200 (5.08)	.155 (3.94)	.122 (3.10)	CKN1394-ND	.75	.60	.48	708901000
Black Gloss	.200 (5.08)	.155 (3.94)	.122 (3.10)	CKN1395-ND	.44	.36	.28	708902000
Red Gloss	.200 (5.08)	.155 (3.94)	.122 (3.10)	CKN1396-ND	.75	.60	.48	708903000
Fig. 2 Pushbutton Caps EP, TP Series								
White Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1112-ND	.87	.70	.56	465801000
Black Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1113-ND	.50	.40	.32	465802000
Red Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1114-ND	.87	.70	.56	465803000
Orange Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1115-ND	.81	.65	.52	465804000
Yellow Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1116-ND	1.12	.90	.72	465805000
Green Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1117-ND	1.12	.90	.72	465806000
Blue Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1118-ND	.81	.65	.52	465807000
Brown Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1119-ND	.81	.65	.52	465808000
Gray Gloss	.310 (7.87)	.152 (3.86)	.100 (2.54)	CKN1120-ND	.81	.65	.52	465809000
Black Gloss	.200 (5.08)	.155 (3.94)	.100 (2.54)	CKN1748-ND	.94	.75	.60	508102000
Red Gloss	.200 (5.08)	.155 (3.94)	.100 (2.54)	CKN1749-ND	.94	.75	.60	508103000
Black Gloss	.200 (5.08)	.155 (3.94)	.100 (2.54)	CKN1751-ND*	1.00	.80	.64	538702000
Pushbutton Caps For Snap-Fitting Actuators								
White Gloss	.395 (10.03)	.325 (8.26)	.122 (3.10)	CKN1209-ND	2.72	2.18	1.72	894101000
Black Gloss	.395 (10.03)	.325 (8.26)	.122 (3.10)	CKN1210-ND	1.00	.80	.64	894102000
Red Gloss	.395 (10.03)	.325 (8.26)	.122 (3.10)	CKN1211-ND	2.72	2.18	1.72	894103000
Fig. 3 Square Pushbutton Caps 8020, 8060, E010, E020, KM11, L, and TP								
Black Gloss	.450 (11.43)	.240 (6.10)	.122 (3.10)	CKN1757-ND	.69	.55	.44	798202263

* Recommended for MS9 plunger

Fig. 1

Series 8X2X, 8X6X, EX1X, EX2X, KM11, TP and L

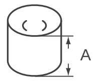

Fig. 2

Series EP, TP

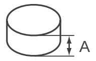

Fig. 3

Series 8020, 8060, E010, E020, KM11, L, TP

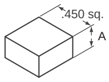

Switch Accessories – Snap-in Frames

Material: Black Nylon

Fig. 1

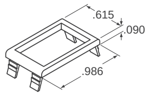

Fig. 2

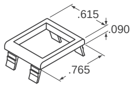

Fig.	Panel Thickness	Panel Shape	Digi-Key Part No.	Price Each			ITT Industries Part No.
				1	25	100	
1	.062” (1.57mm)	Rectangle	CKN1746-ND	.75	.60	.48	452702263
	.090” (2.29mm)	Rectangle	CKN1747-ND	.75	.60	.48	452802263
	.125” (3.18mm)	Rectangle	CKN1745-ND	.75	.60	.48	452602263
2	.062” (1.57mm)	Square	CKN1742-ND	1.00	.80	.64	432602263
	.090” (2.29mm)	Square	CKN1743-ND	1.00	.80	.64	432702263
	.125” (3.18mm)	Square	CKN1744-ND	1.00	.80	.64	432802263

E-SWITCH®

Miniature Pushbutton Switches PBH SERIES

Dimensions: In. (mm)

Miniature switches that feature an ultra light feel with a short stroke. Ideal for telecommunications and test equipment, and wherever miniaturization is required.

• **Contact/Terminals Material:** Silver Plated • **Contact Resistance:** <0.1Ω • **Voltage Rating:** 30VDC • **Switching Current Maximum:** 100mA • **Life:** ≥1 x 10,000 cycles • **Moving Contacts:** Phosphor bronze – 1 micron silver • **Force:** 280 ±50gF • **Travel To Lock:** .08" (2mm) • **Operating Temperature Range:** -20°C ~ 70°C • ***Caps sold separately***

Fig. 1 — No Mounting Bracket

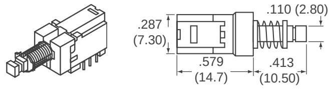

Fig. 2 — Chassis Mount Version

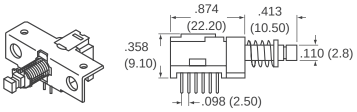

Fig. 3

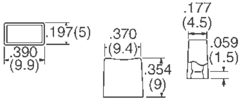

Fig. 4

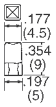

Fig. 5

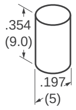

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Right Angle, Momentary, DPDT	EG2654-ND†	1.04	.94	.81	PBH2UOANAGX
	Right Angle, Alternate Action DPDT	EG1102-ND	1.26	1.14	.97	MTH2UEENAGX
		EG2655-ND†	1.16	1.04	.89	PBH2UEENAGX
	Right Angle, Alternate Action, 4PDT	EG2657-ND†	1.31	1.19	1.01	PBH4UEENAGX
	Right Angle, Momentary, 4PDT	EG2547-ND	1.20	1.09	.93	MTH4UOANAGX
		EG2658-ND†	1.20	1.09	.93	PBH4UOANAGX
2	Chassis Mount, Right Angle, Alternate Action DPDT	EG2656-ND†	1.21	1.10	.93	1XPBH2UEENAGX
3	Rectangle Cap, Red	EG1185-ND	.25	.23	.19	1CRED
	Rectangle Cap, Black	EG1181-ND	.25	.23	.19	1CBLK
	Rectangle Cap, Dark Grey	EG1182-ND	.25	.23	.19	1CDGR
4	Long Square Cap, Red	EG1195-ND	.25	.23	.19	1DRED
	Long Square Cap, Black	EG1191-ND	.25	.23	.19	1DBLK
	Long Square Cap, Dark Grey	EG1192-ND	.25	.23	.19	1DDGR
5	Round Cap, Diameter, Red	EG1880-ND	.25	.23	.19	1R RED
	Round Cap, Diameter, White	EG1881-ND	.25	.23	.19	1R WHT
	Round Cap, Diameter, Black	EG1882-ND	.25	.23	.19	1R BLK
	Round Cap, Diameter, Light Grey	EG1883-ND	.25	.23	.19	1R LGR
	Round Cap, Diameter, Dark Grey	EG1884-ND	.25	.23	.19	1R DGR

† ***RoHS Compliant***

Pushbutton Switches
JN SERIES

Dimensions: In. (mm)

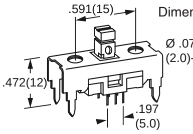

Contacts: Silver Plated • **Contact Resistance:** 50mΩ maximum • **Voltage Ratings:** 30V • **DC Rating:** 0.1A

Caps sold separately

Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Chassis Mount, Stand Up, Alternate Action DPDT	EG1016-ND	1.60	1.44	1.23	1XJN002UEE
Chassis Mount, Stand Up, Momentary Action DPDT	EG1017-ND	1.60	1.44	1.23	1XJN002U0A

Power Switches P227/P197 SERIES

Dimensions: In. (mm)

P227 Series: Rating 125VAC @ 7A/ 250VAC @ 4A. DPDT Alternate Action Panel Mount. Approvals: UL, CSA, Demko, Semko, SEV, Femko, Nemko. **P197 Series:** Rating 5A @ AC250V. Approvals: UL, CSA, VDE, Semko, Nemko, Demko. ***Caps sold separately.***

Fig. 1

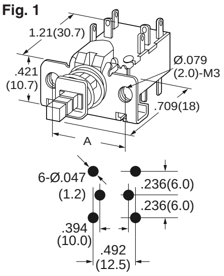

Fig. 2

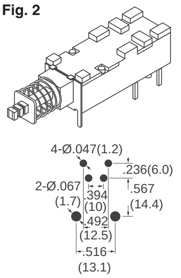

Fig. 3

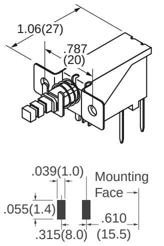

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Pushbutton, DPDT, Alt. Act., Dim. A = .79" (20mm)	EG1018-ND	3.38	3.05	2.60	P227EEB20
	Pushbutton, DPDT, Alt. Act., Dim. A = .71" (18mm)	EG1020-ND	3.38	3.05	2.60	P227EEB18
2	Pushbutton, DPST, Alt. Act., PCB Mount, 7A	EG1026-ND	3.29	2.97	2.53	P227EE1C
3	Pushbutton, SPST, Alt. Act., PCB Mount, 5A	EG1021-ND	2.93	2.65	2.25	P197PBEE
	Pushbutton, SPST, Alt. Act., Panel Mount, 5A	EG1022-ND	2.93	2.65	2.25	P197SBEE

Pushbutton Switches TL SERIES

Dimensions: In. (mm)

Rating: DC 30V 0.1A

Circuit: DPDT - 4PDT

Timing: Non-Shorting

Travel Stroke: Full 2.5, Lock 1.5

Operating Force: TL2285 = 180±50gf only. TL4201 = 250 +100/-50gf

Life: 10,000 cycles minimum

Caps sold separately.
TL2285 Series: use PBH caps
TL4201 Series: use 4J/6J caps

Fig. 1

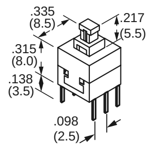

Fig. 2

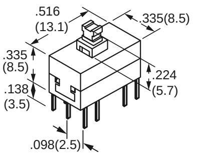

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Momentary Action, DPDT, PCB Mount, Silver Plating	EG1871-ND	1.22	.98	.89	TL2285OA
	Alternate Action, DPDT, PCB Mount, Silver Plating	EG1872-ND	1.22	.98	.89	TL2285EE
2	Momentary Action, 4PDT, PCB Mount, Silver Plating	EG1873-ND	2.57	2.06	1.85	TL4201OAYA
	Alternate Action, 4PDT, PCB Mount, Silver Plating	EG1874-ND	2.57	2.06	1.85	TL4201EEYA

Switch Caps

Dimensions: In. (mm)

Fig. 1

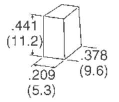

Fig. 2

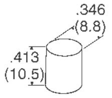

Fig. 3

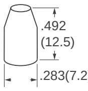

Fig. 4

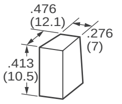

Fig. 5

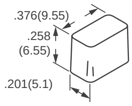

Fig. 6

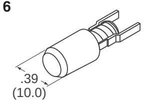

Fig.	Description*	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	Rectangle Cap, White	EG1088-ND	.33	.30	.26	TAC WHT
	Rectangle Cap, Black	EG1081-ND	.33	.30	.26	TAC BLK
	Rectangle Cap, Red	EG1085-ND	.33	.30	.26	TAC RED
	Rectangle Cap, Grey	EG1082-ND	.33	.30	.26	TAC GRY
2	Round Cap, White	EG1098-ND	.33	.30	.26	TAG WHT
	Round Cap, Black	EG1091-ND	.33	.30	.26	TAG BLK
	Round Cap, Grey	EG1092-ND	.33	.30	.26	TAG GRY
	Round Cap, Red	EG1095-ND	.33	.30	.26	TAG RED
	Round Cap, Chrome	EG1099-ND	.63	.57	.49	TAG CHROME
3	Bullet Shaped Cap, Black	EG1012-ND	.33	.30	.26	TAM BLK
	Bullet Shaped Cap, White	EG1013-ND	.33	.30	.26	TAM WHT
	Bullet Shaped Cap, Grey	EG1014-ND	.33	.30	.26	TAM GRY
4	Rectangle Cap, Red	EG1019-ND	.33	.30	.26	TAD RED
	Rectangle Cap, Black	EG1877-ND	.33	.30	.26	TAD BLK
	Rectangle Cap, White	EG1878-ND	.33	.30	.26	TAD WHT
	Rectangle Cap, Grey	EG1879-ND	.33	.30	.26	TAD GRY
5	Rectangle Cap, w/Chamfered Edges, Black	EG1875-ND	.44	.40	.35	TAK BLK
	Rectangle Cap, w/Chamfered Edges, Grey	EG1876-ND	.44	.40	.35	TAK GRY
6	Round Cap, with Shutter Window, Blue	EG2633-ND	1.36	1.23	.99	TH201-BLU
	Round Cap, with Shutter Window, Green	EG2634-ND	1.36	1.23	.99	TH201-GRN
	Round Cap, with Shutter Window, Orange	EG2635-ND	1.36	1.23	.99	TH201-ORG
	Round Cap, with Shutter Window, White	EG2636-ND	1.36	1.23	.99	TH201-WHT
	Round Cap, with Shutter Window, Yellow	EG2637-ND	1.36	1.23	.99	TH201-YEL

Note: These caps fit JN, TL4201, P227 and P197 Series

***All caps are gloss finish**

Grayhill INC.

Pushbutton Switches 30 SERIES

Dimensions: In. (mm)

FEATURES:

• Convenient Snap-in Panel Mounting • SPST N.O. (Momentary Contact) • Gold Plated Contacts • Sealed • IP67

MATERIAL:

• **Terminal:** Brass, gold-plated over nickel • **Shorting Bar:** Brass, gold plated over nickel • **Internal Seal:** Silicon Rubber • **O-ring Seal:** Silicon

RATINGS:

• **Cycles:** 500,000 Actuations • **Operating Temperature:** -40° ~ 80° • **Voltage Breakdown:** 1000 VAC between mutually insulated parts • **Contact Resistance:** 25MΩ maximum on new switch • **Insulation:** 1,000MΩ minimum

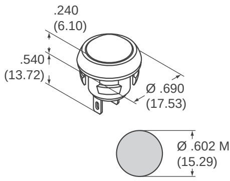

Button Color	Digi-Key Part No.	Price Each 1	100	500	Grayhill Part No.
Black	GH7268-ND	4.00	3.00	2.56	30-100
Red	GH7269-ND	4.00	3.00	2.56	30-101
Green	GH7270-ND	4.00	3.00	2.56	30-102
Yellow	GH7271-ND	4.00	3.00	2.56	30-103
Orange	GH7272-ND	4.00	3.00	2.56	30-104

E-SWITCH®

Pushbutton Switches 700 Series

Specifications: • Ratings: 1A @ 250VAC, 3A @ 120VAC • Gold Contacts: 0.4VA maximum @ 20VAC • Electrical Life: 50,000 cycles typical • Insulation Resistance: 1,000MΩ minimum **Materials:** • Case: Diallyl phthalate (DAP) • Plunger: Glass-filled nylon or glass-filled polyester • Bushing: Nickel plated brass • Housing: Stainless steel • Contacts: Silver or gold plated copper alloy • Mounting Hardware

700 Series Cap

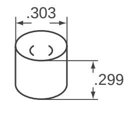

Fig. 1

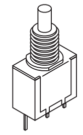

Fig. 2

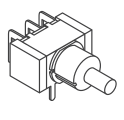

Fig. 3

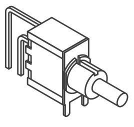

Fig.	Circuit Type	Terminal	Bushing	Contact Rating	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1	DPDT	PCB	1/4-40NS	3A	EG2590-ND	6.80	6.12	4.90	700DP7B10M2QEH
	DPDT	PCB	1/4-40NS	.4VA	EG2591-ND*	7.20	6.48	5.19	700DP7B10M2REH
	SPDT	Solder Lug	1/4-40NS	3A	EG2592-ND	5.31	4.78	3.82	700SP7B10M1QEH
	SPDT	Solder Lug	1/4-40NS	.4VA	EG2593-ND*	5.62	5.06	4.05	700SP7B10M1REH
	SPDT	PCB	1/4-40NS	3A	EG2594-ND	5.31	4.78	3.82	700SP7B10M2QEH
	SPDT	PCB	1/4-40NS	.4VA	EG2595-ND*	5.62	5.06	4.05	700SP7B10M2REH
2	SPDT	PCB	Unthd	3A	EG2596-ND	6.14	5.53	4.42	700SP7B20M6QE
3	SPDT	PCB	Unthd	3A	EG2597-ND	6.23	5.61	4.49	700SP7B20M7QE
700 Series Caps									
Pushbutton Cap, .303” Round, Black for 700 Series....					EG2598-ND	.25	.16	.13	700C1BLK
Pushbutton Cap, .303” Round, Green for 700 Series...					EG2599-ND	.25	.16	.13	700C1GRN
Pushbutton Cap, .303” Round, Gray for 700 Series					EG2600-ND	.25	.16	.13	700C1GRY
Pushbutton Cap, .303” Round, Red for 700 Series.....					EG2601-ND	.25	.16	.13	700C1RED
Pushbutton Cap, .303” Round, White for 700 Series...					EG2602-ND	.25	.16	.13	700C1WHT

* Gold plated copper alloy contacts.

Pushbutton Switches 800, 800A and 800B Series

Specifications (800 and 800A series only)**:** • Ratings: 1A @ 250VAC, 3A @ 20VAC • Gold Contacts: 0.4VA maximum @ 20VAC • Electrical Life: 50,000 cycles typical • Insulation Resistance: 1,000MΩ minimum **Materials:** • Case: Diallyl phthalate (DAP) • Plunger: Glass-filled nylon or glass-filled polyester • Bushing: Nickel plated brass • Housing: Stainless steel • Contacts: Silver or gold plated copper alloy • Mounting Hardware

800 Series Cap

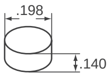

Fig. 1

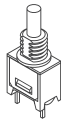

Fig. 2

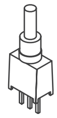

Fig. 3

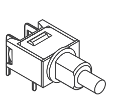

Fig. 4

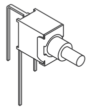

Fig.	Circuit Type	Terminal	Bushing	Contact Rating	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Unsealed Pushbutton Switches									
1	SPST	PC Mnt.	10-48 Thd.	3A	EG2613-ND	3.06	2.76	2.21	800SP9B5M2QEH
	SPST	PC Mnt.	.173” Unthd.	.4VA	EG2614-ND	3.21	2.90	2.32	800SP9B6M2RE
	SPST	PC Mnt.	.225” Unthd.	3A	EG2617-ND	3.54	3.19	2.55	800SP9B8M2QE
3	SPST	Rt. Angle PCB	.173” Unthd.	.4VA	EG2615-ND	3.51	3.17	2.53	800SP9B6M6RE
	SPST	Rt. Angle PCB	.187” Unthd.	.4VA	EG2616-ND	4.51	4.07	3.25	800SP9B7M6RE
	SPDT	Rt. Angle PCB	.173” Unthd.	.4VA	EG2611-ND	4.82	4.34	3.48	800SP8B6M6RE
	SPDT	Rt. Angle PCB	.187” Unthd.	.4VA	EG2612-ND	5.82	5.24	4.19	800SP8B7M6RE
Sealed Pushbutton Switches									
2	SPST	PC Mnt.	.180” Unthd.	1A	EG2605-ND	3.74	3.37	2.70	800AWSP9M2QE
	SPST	PC Mnt.	.180” Unthd.	.4VA	EG2606-ND	3.93	3.54	2.83	800AWSP9M2RE
	SPDT	PC Mnt.	.180” Unthd.	1A	EG2603-ND	4.42	3.98	3.19	800AWSP8M2QE
	SPDT	PC Mnt.	.180” Unthd.	.4VA	EG2604-ND	4.08	3.68	2.94	800AWSP8M2RE
3	SPST	Rt. Angle PCB	.180” Unthd.	.4VA	EG2608-ND	4.19	3.78	3.02	800AWSP9M6RE
	SPST	Rt. Angle PCB	.180” Unthd.	1A	EG2607-ND	4.00	3.61	2.89	800AWSP9M6QE
4	SPST	Vert. Rt. Angle	.180” Unthd.	.4VA	EG2609-ND	4.19	3.78	3.02	800AWSP9M7RE
800B Series Pushbutton Switches									
3	SPST	SMT	—	.4VA	EG2610CT-ND EG2610TR-ND	8.67 2196.40/500	6.94	6.25	800BWSP9SM6RE
Switch Accessories									
Switch Cap, Round, Black for .100” Plunger..........					EG2618-ND	.25	.16	.13	800C1BLK
Switch Cap, Round, White for .100” Plunger					EG2621-ND	.25	.16	.13	800C1WHT
Switch Cap, Round, Red for .100” Plunger					EG2620-ND	.25	.16	.13	800C1RED
Switch Cap, Round, Green for .100” Plunger					EG2619-ND	.25	.16	.13	800C1GRN

Cannon

ITT Industries
Engineered for life

Switch Caps for PVA Series

Rectangle

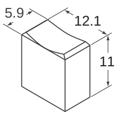

Round

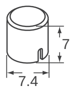

Description	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
Switch Caps for PVA Pushbutton Switches					
Rectangle, Black	401-1152-ND	.30	.24	.19	PE/BLK
Rectangle, Grey	401-1153-ND	.30	.24	.19	PE/GRY
Rectangle, Red	401-1154-ND	.34	.28	.22	PE/RED
Rectangle, White	401-1155-ND	.30	.24	.19	PE/WHT
Round, Black	401-1148-ND	.30	.24	.19	PV/BLK
Round, Grey	401-1149-ND	.30	.24	.19	PV/GRY
Round, Red	401-1150-ND	.30	.24	.19	PV/RED
Round, White	401-1151-ND	.30	.24	.19	PV/WHT

PVA Pushbutton Switches

Switching: Voltage Maximum: 50VDC, Current Maximum: 100mADC **Operating Life:** 10^5 operations **Contact Resistance:** 150mΩ **Operating Temperature:** -40°C ~ 85°C (without button)

Circuit	Description	Dim H (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
DPST-NO	Alternate Action, 120gF	17.5	401-1132-ND	1.41	1.13	.90	PVA1 EE H1
	Alternate Action, 120gF	23	401-1134-ND	1.53	1.23	.97	PVA1 EE H2
	Alternate Action, 120gF	20.5	401-1136-ND	1.57	1.26	1.00	PVA1 EE H3
	Alternate Action, 120gF	15	401-1138-ND	1.53	1.23	.97	PVA1 EE H4
	Mom. Action, 120gF	17.5	401-1133-ND	1.20	.96	.76	PVA1 OA H1
	Mom. Action, 120gF	23	401-1135-ND	1.32	1.06	.84	PVA1 OA H2
	Mom. Action, 120gF	20.5	401-1137-ND	1.36	1.09	.86	PVA1 OA H3
	Mom. Action, 120gF	15	401-1139-ND	1.32	1.06	.84	PVA1 OA H4
DPDT-NO	Alternate Action, 170gF	17.5	401-1140-ND	1.65	1.32	1.05	PVA2 EE H1
	Alternate Action, 170gF	23	401-1142-ND	1.77	1.42	1.12	PVA2 EE H2
	Alternate Action, 170gF	20.5	401-1144-ND	1.81	1.45	1.15	PVA2 EE H3
	Alternate Action, 170gF	15	401-1146-ND	1.77	1.42	1.12	PVA2 EE H4
	Mom. Action, 170gF	17.5	401-1141-ND	1.44	1.15	.92	PVA2 OA H1
	Mom. Action, 170gF	23	401-1143-ND	1.55	1.25	.99	PVA2 OA H2
	Mom. Action, 170gF	20.5	401-1145-ND	1.59	1.28	1.01	PVA2 OA H3
	Mom. Action, 170gF	15	401-1147-ND	1.55	1.25	.99	PVA2 OA H4
	Mom. Action, 170gF	23	401-1593-ND	1.76	1.62	1.49	PVA2GR/OAH2

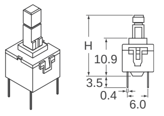

DPST Shown

DPST

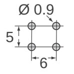

DPDT

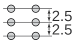

Grayhill INC.

Miniature Pushbutton Switches

Grayhill's miniature pushbutton switches are PCB or panel mounted for compact, low-profile, behind-panel applications. Series 30 and 39 switches are a reliable and economical solution with a large selection of shapes and sizes to fit all designs. Operating temperature is -40°C ~ 85°C. Optional caps work with all Series 30 and 39 switches except 39-101. Fasten button with cyanoacrylate adhesive.

Fig. 1

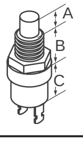

Fig. 2

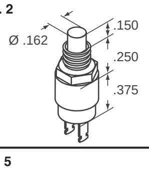

Fig. 3

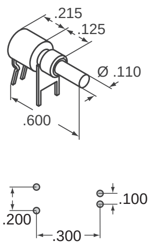

Fig. 4

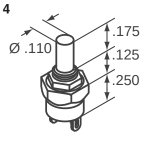

Fig. 5

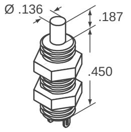

Fig.	Circuit	Current Rating	Button Color	Thread Size	Dimensions (inch) A	B	C	Digi-Key Part No.	Price Each 1	100	Grayhill Part No.
1	SPST-NO	1A	Black	15/32-32	.160	.375	.668	GH1359-ND	4.66	3.50	10-09
	SPST-NO	250mA	Red	5/16-32	.146	.250	.476	GH1361-ND	6.00	4.50	23-1
	SPST-NO	1A	Red	1/4-32	.150	.250	.370	GH1362-ND	2.32	1.74	30-1
	SPST-NO	1A	Black	1/4-32	.150	.250	.370	GH1365-ND	2.32	1.74	30-3
	SPST-NO	5A	Black	1/4-32	.150	.250	.370	GH1358-ND	2.42	1.82	30-3UL
	SPST-NO	1A	Red	1/4-32	.150	.250	.455	GH1363-ND	2.89	2.17	30-15
	SPST-NO	150mA	Black	1/4-32	.150	.250	.370	GH1367-ND	1.66	1.25	30-601 BLK
	SPST-NO	150mA	Red	1/4-32	.150	.250	.370	GH1368-ND	1.66	1.25	30-601 RED
	SPST-NO	500mA	Red	8-40	.175	.125	.215	GH1344-ND	3.55	2.67	39-1
	SPST-NC	250mA	Black	8-40	.175	.125	.390	GH1346-ND	5.50	4.13	39-2
	SPST-NO	500mA	Black	8-40	.175	.125	.215	GH1345-ND	3.56	2.67	39-3
	SPST-NO	150mA	Red	8-40	.175	.125	.215	GH1350-ND	2.95	2.22	39-401 RED
	SPST-NO	150mA	Black	8-40	.175	.125	.215	GH1349-ND	2.95	2.22	39-401 BLK
	SPST-NO	1A	Red	15/32-32	.160	.375	.668	GH1360-ND	4.66	3.50	4001
2	SPST-NC	1A	Black	1/4-32	—	—	—	GH1364-ND	2.60	1.96	30-2
	SPST-NC	1A	Red	1/4-32	—	—	—	GH1366-ND	2.60	1.96	30-6
3	SPST-NO	150mA	Red	—	—	—	—	GH1351-ND	4.71	3.54	39-501 RED
	SPST-NO	150mA	Black	—	—	—	—	GH1352-ND	4.71	3.54	39-501 BLK
	SPST-NO	150mA	Red	—	—	—	—	GH1353-ND	4.93	3.70	39-503 RED
4	SPST-NO	500mA	Red	8-40	—	—	—	GH1347-ND	6.65	4.99	39-351 RED
	SPST-NO	500mA	Black	8-40	—	—	—	GH1348-ND	6.65	4.99	39-351 BLK
5	SPST-NO	500mA	Nat. Nylon	5/16-32	—	—	—	GH1369-ND	7.73	5.81	39-101
Pushbutton Cap, Red, .25” Diameter for Series 30 and 39............								GH1355-ND	.36	.27	30B1012-5
Pushbutton Cap, Black, .25” Diameter for Series 30 and 39								GH1357-ND	.36	.27	30B1012-9
Pushbutton Cap, White, .25” Diameter for Series 30 and 39..........								GH1356-ND	.39	.30	30B1012-8

E-SWITCH®

Momentary Pushbutton Switches

5500 Narrow and 5511 Wide Body Series

These miniature, momentary switches have a crisp tactile feel and are available in a wide range of colors, available in two widths: the 5500 .47” (12mm) wide and the 5511 .67” (17mm) wide, meet all ESD protection requirements and are available with or without LED. **Operating Travel:** 1.8mm. **Function:** Momentary SPDT. **Contact Bounce:** <5m second **Operating Life:** 5 x 10^5 Cycles. **Operating Force:** <200 gf. **Voltage Rating:** 12V. **Current Rating:** 50mA. **Contact Resistance:** <50mΩ. **LED Ratings:** 2.2v @ 30mA.

Fig. 1

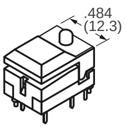

Narrow Body

Fig. 2

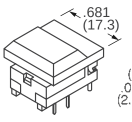

Wide Body

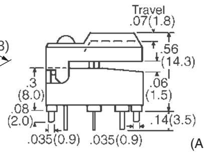

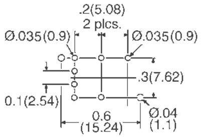

(Above PCB is for Two LED Series)

Dim: in. (mm)

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
5500 Series - Narrow Body						
1	Momentary, SPDT, Black Cap, no LED	EG1701-ND	4.06	3.66	3.12	5501M1X
	Momentary, SPDT, Grey Cap, no LED	EG1702-ND	4.06	3.66	3.12	5501M2X
	Momentary, SPDT, Red Cap, no LED	EG1704-ND	4.06	3.66	3.12	5501M5X
	Momentary, SPDT, White Cap, no LED	EG1708-ND	4.06	3.66	3.12	5501M8X
	Momentary, SPDT, Black Cap, w/Red LED	EG17151-ND	5.30	4.78	4.07	5501M11
	Momentary, SPDT, Black Cap, w/Green LED	EG17171-ND	5.84	5.26	4.48	5501M12
	Momentary, SPDT, Grey Cap, w/Red LED	EG17152-ND	5.30	4.78	4.07	5501M21
	Momentary, SPDT, Grey Cap, w/Green LED	EG17172-ND	5.84	5.26	4.48	5501M22
	Momentary, SPDT, Red Cap, w/Red LED	EG17155-ND	5.30	4.78	4.07	5501M51
	Momentary, SPDT, Red Cap, w/Green LED	EG17175-ND	5.84	5.26	4.48	5501M52
	Momentary, SPDT, White Cap, Red LED	EG17158-ND	5.30	4.78	4.07	5501M81
	Momentary, SPDT, White Cap, w/Green LED	EG17178-ND	5.84	5.26	4.48	5501M82
	Momentary, SPDT, Black Cap, w/Red and Green LED	EG171571-ND	6.62	5.96	5.08	5501M11/2
	Momentary, SPDT, Grey Cap, w/Red and Green LED	EG171572-ND	6.62	5.96	5.08	5501M21/2
5511 Series - Wide Body						
2	Momentary, SPDT, Black Cap, no LED	EG1709-ND	4.06	3.66	3.12	5511M1X
	Momentary, SPDT, Grey Cap, no LED	EG1710-ND	4.06	3.66	3.12	5511M2X
	Momentary, SPDT, Blue Cap, no LED	EG1711-ND	4.06	3.66	3.12	5511M4X
	Momentary, SPDT, Red Cap, no LED	EG1712-ND	4.06	3.66	3.12	5511M5X
	Momentary, SPDT, White Cap, no LED	EG1714-ND	4.06	3.66	3.12	5511M8X
	Momentary, SPDT, Black Cap, w/Red LED	EG1715-ND	5.30	4.78	4.07	5511M11
	Momentary, SPDT, Black Cap, w/Green LED	EG1719-ND	5.30	4.78	4.07	5511M12
	Momentary, SPDT, Grey Cap, w/Red LED	EG1716-ND	5.30	4.78	4.07	5511M21
	Momentary, SPDT, Grey Cap, w/Green LED	EG1720-ND	5.30	4.78	4.07	5511M22
	Momentary, SPDT, Red Cap, w/Red LED	EG1717-ND	5.30	4.78	4.07	5511M51
	Momentary, SPDT, White Cap, w/Red LED	EG1718-ND	5.30	4.78	4.07	5511M81
	Momentary, SPDT, White Cap, w/Green LED	EG1722-ND	5.30	4.78	4.07	5511M82
	Momentary, SPDT, Black Cap, w/Red and Green LED	EG1723-ND	5.84	5.26	4.48	5511M11/2
	Momentary, SPDT, Grey Cap, w/Red and Green LED	EG1724-ND	5.84	5.26	4.48	5511M21/2

Pushbutton Switches

Dim: in. (mm)

Fig. 1

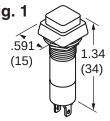

Circuit: SPST (Momentary On) **Rating:** 3A 125VAC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .49” (12.4mm) Hardware Included.

Fig. 2

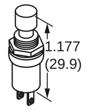

Circuit: SPST (Momentary On) **Rating:** 3A 125VAC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .28” (7.2mm) Hardware Included.

Fig. 3

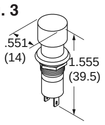

Circuit: SPST (Momentary On) **Rating:** 3A 125VAC **Initial Contact Resistance:** ≤ 50mΩ **Hole Cutout:** .49” (12.4mm) Hardware Included.

Fig. 4

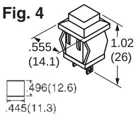

Panel Cutout

Circuit: SPST (Momentary On)

Rating: 1A 125VAC

Initial Contact Resistance: ≤ 20mΩ

Fig. 5

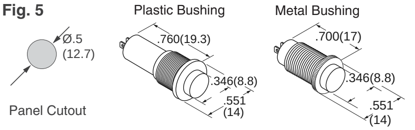

Panel Cutout

Circuit: SPST **Rating:** 3A 125VAC / 1.5A 250 AC
Initial Contact Resistance: ≤ 50mΩ **Hole Cutout:** .50” (12.7mm)
Hardware Included.

Fig. 6

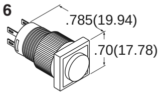

Circuit: SPST **Rating:** 3A 125V /1.5A 250VAC. **Hole Cutout:** .62” (15.75mm) Hardware Included. **Rating:** Red; 1.8V @ 20mA, Yellow & Green; 2.1V @ 20mA.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
Momentary Switches						
1	Red, Cap .59” (15mm) Sq., N/O	EG2005-ND	2.32	2.09	1.78	PS1023A-RED
	Black, Cap .59” (15mm) Sq., N/O	EG2001-ND	2.32	2.09	1.78	PS1023A-BLK
2	Red, Cap .24” (6mm) Dia., N/O	EG2015-ND	1.24	1.09	1.00	PS1024A-RED
	Black, Cap .24” (6mm) Dia., N/O	EG2011-ND	1.24	1.09	1.00	PS1024A-BLK
	Red, Cap .39” (10mm) Dia., N/O	EG2025-ND	1.56	1.40	1.20	PS1024AL-RED
	Black, Cap .39” (10mm) Dia., N/O	EG2021-ND	1.56	1.40	1.20	PS1024AL-BLK
3	Red, Cap .55” (14mm) Dia., N/O	EG2035-ND	2.31	2.09	1.78	PS1040A-RED
	Black, Cap .55” (14mm) Dia., N/O	EG2031-ND	2.31	2.09	1.78	PS1040A-BLK
4	Red, Cap .55” (14mm) Sq., N/O	EG2045-ND	1.69	1.53	1.30	PS1057A-RED
	Black, Cap .55” (14mm) Sq., N/O	EG2041-ND	1.69	1.53	1.30	PS1057A-BLK
5	Black Cap, Plastic Bushing, N/O	EG1900-ND	2.01	1.82	1.55	RP3502A-BLK
	Black Cap, Plastic Bushing, N/C	EG1929-ND	2.27	2.05	1.75	RP3502B-BLK
	Red Cap, Plastic Bushing, N/O	EG1930-ND	2.01	1.82	1.55	RP3502A-RED
	Red Cap, Plastic Bushing, N/C	EG1931-ND	2.27	2.05	1.75	RP3502B-RED
	Black Cap, Metal Bushing, N/O	EG1932-ND	2.98	2.68	2.29	RP3502MA-BLK
	Black Cap, Metal Bushing, N/C	EG1933-ND	3.33	3.00	2.56	RP3502MB-BLK
	Green Cap, Metal Bushing, N/O	EG1934-ND	2.98	2.68	2.29	RP3502MA-GRN
	Green Cap, Metal Bushing, N/C	EG1935-ND	2.98	2.68	2.29	RP3502MB-GRN
	Yellow Cap, Metal Bushing, N/O	EG1936-ND	2.98	2.68	2.29	RP3502MA-YEL
	Yellow Cap, Metal Bushing, N/C	EG1937-ND	2.98	2.68	2.29	RP3502MB-YEL
	Red Cap, Metal Bushing, N/O	EG1938-ND	2.98	2.68	2.29	RP3502MA-RED
	Red Cap, Metal Bushing, N/C	EG1939-ND	2.98	2.68	2.29	RP3502MB-RED
6	Illuminating Red LED Alt Action	EG2543-ND	6.77	6.10	5.20	RP3508BBLKREDREDNS
	Illuminating Green LED Alt Action	EG2544-ND	6.77	6.10	5.20	RP3508BBLKGRNGRNNS
	Illuminating Yellow LED Alt Action	EG2545-ND	6.77	6.10	5.20	RP3508BBLKYELYELNS

Momentary Pushbutton Switches

320 and 520 SERIES

Fig. 1

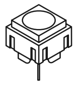

Fig. 2

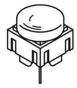

Fig. 3

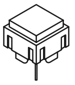

Fig. 4

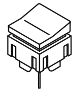

Fig. 5

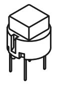

320 Series switches are being used in a variety of applications in a great number of industries such as; Instrumentation, Test Equipment, Telecommunications, Audio Visual, and Computers. **Travel:** .028" (.7mm). **Operating Force:** 120 grams. **Type Of Contact:** SPST. **Contact Rating:** 25mA/50V (DC). **Initial Resistance:** 50mΩ **Life:** 1 X 10^6 switching cycles. • **Snap Time:** Closing: <50μs; Opening: <200μs. **Materials:** Housing: PC-CF; Knob: ABS or equivalent; Contacts (Fixed): CuZn Ag (gold available); Dome Contact: CrNi Au.

520 Series switches designed for digital electronics, offer a smooth, tactile feel. They feature built-in square or round buttons and are available in seven colors. **Travel:** .03” (.8mm). **Operating Force:** 130 grams. **Type of Contact:** SPST n/o. **Contact Rating:** 10mA, 35VDC; 100mA, 100VAC. **Initial Contact Resistance:** < 20mΩ. **Life:** 500,000 cycles. **Operating Temp. Range:** -20°C ~ 60°C. **Materials:** Base: Valox; Button: Polycarbonate; Switch Contact: Laminated silver, self-cleaning.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
320 Series – Momentary Pushbutton, Sold With Caps						
1	Square, Recessed, Black	EG1301-ND	2.23	2.02	1.72	320E1-1BLK
	Square, Recessed, Grey	EG1303-ND	2.23	2.02	1.72	320E1-1GRY
	Square, Recessed, Red	EG1305-ND	2.23	2.02	1.72	320E1-1RED
	Square, Recessed, White	EG1308-ND	2.23	2.02	1.72	320E1-1WHT
	Square, Recessed, Yellow	EG2549-ND	2.05	1.85	1.58	320E1-1YEL
	Square, Recessed, Blue	EG2550-ND	2.05	1.85	1.58	320E1-1BLU
	Square, Recessed, Green	EG2551-ND	2.05	1.85	1.58	320E1-1GRN
2	Std. Round, Black	EG1311-ND	2.02	1.74	1.50	320.02E1-1.08BLK
	Std. Round, Grey	EG1312-ND	2.02	1.74	1.50	320.02E1-1.08GRY
	Std. Round, Red	EG1315-ND	2.02	1.74	1.50	320.02E1-1.08RED
	Std. Round, White	EG1318-ND	2.02	1.74	1.50	320.02E1-1.08WHT
	Std. Round, Yellow	EG2552-ND	2.57	2.32	1.98	320.02E1-1.08YEL
	Std. Round, Blue	EG2553-ND	2.57	2.32	1.98	320.02E1-1.08BLU
	Std. Round, Green	EG2554-ND	2.57	2.32	1.98	320.02E1-1.08GRN
2	Large Round, Black	EG2568-ND	2.66	2.40	2.05	320.02E1-1.09BLK
	Large Round, Grey	EG2569-ND	2.66	2.40	2.05	320.02E1-1.09GRY
	Large Round, Yellow	EG2570-ND	2.66	2.40	2.05	320.02E1-1.09YEL
	Large Round, Blue	EG2571-ND	2.66	2.40	2.05	320.02E1-1.09BLU
	Large Round, Red	EG2572-ND	2.66	2.40	2.05	320.02E1-1.09RED
	Large Round, Green	EG2573-ND	2.66	2.40	2.05	320.02E1-1.09GRN
	Large Round, White	EG2574-ND	2.66	2.40	2.05	320.02E1-1.09WHT
3	Flat Square, Black	EG1321-ND	2.23	2.02	1.72	320.01E1-1BLK
	Flat Square, Grey	EG1322-ND	2.23	2.02	1.72	320.01E1-1GRY
	Flat Square, Red	EG1325-ND	2.23	2.02	1.72	320.01E1-1RED
	Flat Square, White	EG1328-ND	2.23	2.02	1.72	320.01E1-1WHT
	Flat Square, Yellow	EG2555-ND	2.05	1.85	1.58	320.01E1-1YEL
	Flat Square, Blue	EG2556-ND	2.05	1.85	1.58	320.01E1-1BLU
	Flat Square, Green	EG2557-ND	2.05	1.85	1.58	320.01E1-1GRN
4	Tilted Square, Black	EG1341-ND	2.23	2.02	1.72	320.22E1-1BLK
	Tilted Square, Grey	EG1342-ND	2.23	2.02	1.72	320.22E1-1GRY
	Tilted Square, Red	EG1345-ND	2.23	2.02	1.72	320.22E1-1RED
	Tilted Square, White	EG1348-ND	2.23	2.02	1.72	320.22E1-1WHT
	Tilted Square, Yellow	EG2558-ND	2.07	1.87	1.59	320.22E1-1YEL
	Tilted Square, Blue	EG2559-ND	2.07	1.87	1.59	320.22E1-1BLU
	Tilted Square, Green	EG2560-ND	2.07	1.87	1.59	320.22E1-1GRN
	Tilted Rectangular, Black	EG2561-ND	2.12	1.91	1.63	320.21E1-1BLK
	Tilted Rectangular, Grey	EG2562-ND	2.12	1.91	1.63	320.21E1-1GRY
	Tilted Rectangular, Yellow	EG2563-ND	2.12	1.91	1.63	320.21E1-1YEL
	Tilted Rectangular, Blue	EG2564-ND	2.12	1.91	1.63	320.21E1-1BLU
	Tilted Rectangular, Red	EG2565-ND	2.12	1.91	1.63	320.21E1-1RED
	Tilted Rectangular, Green	EG2566-ND	2.12	1.91	1.63	320.21E1-1GRN
	Tilted Rectangular, White	EG2567-ND	2.12	1.91	1.63	320.21E1-1WHT
—	12 mm Finger Recessed Cap, Black	EG2575-ND	2.42	2.18	1.86	320.02E1-1.094BLK
	12 mm Finger Recessed Cap, Grey	EG2576-ND	2.42	2.18	1.86	320.02E1-1.094GRY
	Black Stem (Use’s JN Caps)	EG2548-ND	1.95	1.76	1.50	320.02E1-1BLK
520 Series – Momentary Pushbutton, Sold With Caps						
5	Square, Yellow	EG1403-ND	.98	.89	.76	520.01-YEL
	Square, Blue	EG1404-ND	.98	.89	.76	520.01-BLU

OMRON A16 Series 16mm Switches

Omron's unique A16 series design allows users to make any switch arrangement needed. By changing the rear switch block, users can have a SPDT or a DPDT with LED or incandescent illumination. Changing the rear switch block or lamp is a snap with Omron's exclusive extraction tool. Panel installation is easy, cut your hole and insert the switch into the front of the panel and fix the lock ring and mounting nut from the back of the panel using Omron's fitting wrench to tighten the nut. Switches are sold as a complete assembly with switch block and lamp options available.

Specifications:
Rating Contacts: • 250VAC: 3A (resistive) • 125VAC: 5A (resistive) • 30VDC: 3A (resistive)
LED Indicators: • Rated Voltage: 24VDC • Rated Current: 10mA • Operating Voltage: 24VDC±5%
Dielectric Strength: 1000VAC, 50/60 Hz for 1 minute between terminals of same polarity
Life Expectancy: 100,000 operations minimum **Operating Temperature:** -10°C ~ 55°C
Ambient humidity: Operating 35% ~ 80% **Degree of protection:** IP65

Pushbutton Switches 16mm

Fig. 1

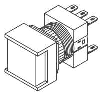

Square

Fig. 2

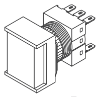

Rectangular

Fig. 3

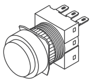

Round

Fig.	Switch Type	Cont. Blocks Include	Illumin. Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Non-Illuminated Momentary Switches									
1	Square/Flush Button	DPDT	—	Blue	Z1312-ND	12.05	11.16	10.42	A165-AAM-2
				Black	Z1313-ND	12.05	11.16	10.42	A165-ABM-2
				Green	Z1314-ND	12.05	11.16	10.42	A165-AGM-2
				Red	Z1315-ND	12.05	11.16	10.42	A165-ARM-2
				White	Z1316-ND	12.05	11.16	10.42	A165-AWM-2
				Yellow	Z1317-ND	12.05	11.16	10.42	A165-AYM-2
2	Rectangular/Flush Button	DPDT	—	Black	Z1318-ND	12.05	11.16	10.42	A165-JBM-2
				Green	Z1319-ND	12.05	11.16	10.42	A165-JGM-2
				Red	Z1320-ND	12.05	11.16	10.42	A165-JRM-2
				White	Z1321-ND	12.05	11.16	10.42	A165-JWM-2
				Yellow	Z1322-ND	12.05	11.16	10.42	A165-JYM-2
3	Round/Extended Button	SPDT	—	Blue	Z1323-ND	10.28	9.52	8.89	A165-TAM-1
				Black	Z1324-ND	10.28	9.52	8.89	A165-TBM-1
				Green	Z1325-ND	10.28	9.52	8.89	A165-TGM-1
				Red	Z1326-ND	10.28	9.52	8.89	A165-TRM-1
				White	Z1327-ND	10.28	9.52	8.89	A165-TWM-1
				Yellow	Z1328-ND	10.28	9.52	8.89	A165-TYM-1
Illuminated Momentary Switches									
1	Square/Flush Button	DPDT	24VDC	Green	Z1300-ND	16.03	14.84	13.86	A165L-AGM-24D-2
				Red	Z1301-ND	16.03	14.84	13.86	A165L-ARM-24D-2
				White	Z1302-ND	16.03	14.84	13.86	A165L-AWM-24D-2
				Yellow	Z1303-ND	16.03	14.84	13.86	A165L-AYM-24D-2
2	Rectangular/Flush Button	DPDT	24VDC	Green	Z1304-ND	17.13	15.87	14.81	A165L-JGM-24D-2
				Red	Z1305-ND	17.13	15.87	14.81	A165L-JRM-24D-2
				White	Z1306-ND	17.13	15.87	14.81	A165L-JWM-24D-2
				Yellow	Z1307-ND	17.13	15.87	14.81	A165L-JYM-24D-2
3	Round/Extended Button	DPDT	24VDC	Green	Z1308-ND	16.03	14.84	13.86	A165L-TGM-24D-2
				Red	Z1309-ND	16.03	14.84	13.86	A165L-TRM-24D-2
				White	Z1310-ND	16.03	14.84	13.86	A165L-TWM-24D-2
				Yellow	Z1311-ND	16.03	14.84	13.86	A165L-TYM-24D-2

Emergency Stop Switch

Omron's 16mm Emergency stop switches have a positive opening mechanism with minimum contact separation of 3mm in accordance with EN60947-5-1. Includes a safety lock mechanism to prevent malfunction. "Turn to Reset" operation to prevent unintentional resetting. Clearly visible red button with IP65 oil resistant seal. **Contacts:** 5A@110VAC/3A 30VDC

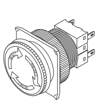

Switch Type	Illumination Voltage	Contact	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
30-dia.Head Push-lock Turn-Reset	—	SPST-NC	Z1427-ND	36.49	33.79	31.54	A165E-S-01
	—	DPST-NC	Z1428-ND	44.50	41.21	38.46	A165E-S-02
	24VDC	SPDT-NC	Z1425-ND	49.47	45.81	42.76	A165E-LS-24D-01
	24VDC	DPST-NC	Z1426-ND	57.49	53.24	49.69	A165E-LS-24D-02
Emergency Stop Plate, 45mm dia., Yellow			Z1435-ND	3.98	3.69	3.44	A16Z-5070

16mm Accessories

Fig. 1

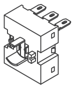

Fig. 2

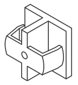

Fig. 3

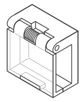

Fig. 4

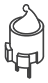

Fig. 5

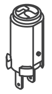

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Repl. Switch Block - SPDT, Solder Term.	Z1330-ND	6.30	5.84	5.45	A16-1
	Repl. Switch Block - DPDT, Solder Term.	Z1331-ND	8.29	7.68	7.17	A16-2
	Repl. Switch Block - SPDT, PCB Term.	Z1332-ND	9.17	8.50	7.93	A16-1P
	Repl. Switch Block - DPDT, PCB Term.	Z1333-ND	10.84	10.04	9.37	A16-2P
2	Panel Hole Plug, Square	Z1334-ND	2.32	2.15	2.01	A16ZA-3003
	Panel Hole Plug, Rectangular	Z1335-ND	2.32	2.15	2.01	A16ZJ-3003
	Panel Hole Plug, Round	Z1336-ND	2.87	2.67	2.49	A16ZT-3003
3	Switch Guard, Square & Round, Black	Z1337-ND	5.19	4.81	4.49	A16ZA-5050
	Switch Guard, Rectangular	Z1338-ND	5.19	4.81	4.49	A16ZJ-5050
4	Repl. Neon Lamp, 110V, Red	Z1342-ND	4.31	3.99	3.73	A16-1NRN
	Repl. Neon Lamp, 110V, Green	Z1343-ND	7.08	6.56	6.12	A16-1NGN
5	Repl. Led Lamp, 24VDC, Red	Z1584-ND	4.64	4.30	4.02	A16-24DSR
	Repl. Led Lamp, 24VDC, Yellow	Z1585-ND	4.64	4.30	4.02	A16-24DSY
	Repl. Led Lamp, 24VDC, Green	Z1586-ND	4.64	4.30	4.02	A16-24DSG
	Repl. Led Lamp, 24VDC, White	Z1587-ND	4.64	4.30	4.02	A16-24DSW
—	Fitting Wrench for Tightening Lock Nuts	Z1436-ND	6.86	6.35	5.93	A3B-3004
	Extractor for Lamp and Switch Removal	Z1437-ND	3.64	3.38	3.15	A16Z-5080

M16 Pilot Lights

Indicator light only without the switch for indication of circuit status or warning. Matches switch assembly for uniform panel look.

Fig. 1

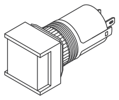

Fig. 2

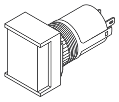

Fig. 3

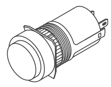

Fig.	Light Type	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Square	24VDC @ 10mA	Green	Z1349-ND	10.28	9.52	8.89	M165-AG-24D
			Red	Z1350-ND	10.28	9.52	8.89	M165-AR-24D
			White	Z1351-ND	10.28	9.52	8.89	M165-AW-24D
			Yellow	Z1352-ND	10.28	9.52	8.89	M165-AY-24D
2	Rectangular	24VDC @ 10mA	Green	Z1354-ND	10.28	9.52	8.89	M165-JG-24D
			Red	Z1355-ND	10.28	9.52	8.89	M165-JR-24D
			White	Z1356-ND	10.28	9.52	8.89	M165-JW-24D
			Yellow	Z1357-ND	10.28	9.52	8.89	M165-JY-24D
3	Round	24VDC @ 10mA	Green	Z1359-ND	10.28	9.52	8.89	M165-TG-24D
			Red	Z1360-ND	10.28	9.52	8.89	M165-TR-24D
			White	Z1361-ND	10.28	9.52	8.89	M165-TW-24D
			Yellow	Z1362-ND	10.28	9.52	8.89	M165-TY-24D

Key Type Selector Switch

Fig. 1

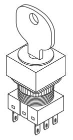

Fig. 2

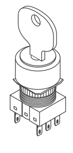

Fig.	Type	No. of Electrical Positions	Contact	Key Positions Pos. 1	Pos. 2	Pos. 3	Key Removable Position	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Square	2 Position	DPDT	On	Mom	—	1	Z1399-ND	35.38	32.76	30.58	A165K-A2AL-2
				On	On	—	1, 2	Z1400-ND	35.38	32.76	30.58	A165K-A2M-2
				On	On	—	1	Z1401-ND	35.38	32.76	30.58	A165K-A2ML-2
				On	On	—	3	Z1402-ND	35.38	32.76	30.58	A165K-A2MR-2
		3 Position	DPDT	On	On	On	1, 2, 3	Z1403-ND	35.38	32.76	30.58	A165K-A3M-2
				On	On	On	2	Z1404-ND	35.38	32.76	30.58	A165K-A3MC-2
				On	On	On	1	Z1405-ND	35.38	32.76	30.58	A165K-A3ML-2
				On	On	On	3	Z1406-ND	35.38	32.76	30.58	A165K-A3MR-2
2	Round	2 Position	DPDT	On	Mom	—	1	Z1415-ND	35.38	32.76	30.58	A165K-T2AL-2
				On	On	—	1 & 2	Z1416-ND	35.38	32.76	30.58	A165K-T2M-2
				On	On	—	1	Z1417-ND	47.26	43.76	40.85	A165K-T2ML-2
				On	On	—	2	Z1418-ND	35.38	32.76	30.58	A165K-T2MR-2
		3 Position	DPDT	On	On	On	1, 2, 3	Z1420-ND	35.38	32.76	30.58	A165K-T3M-2
				On	On	On	2	Z1421-ND	35.38	32.76	30.58	A165K-T3MC-2
				On	On	On	1	Z1422-ND	35.38	32.76	30.58	A165K-T3ML-2
				On	On	On	3	Z1423-ND	35.38	32.76	30.58	A165K-T3MR-2
Replacement Key for A165K Series (2 pcs.)								Z1424-ND	4.64	4.30	4.02	A165K-KEY

(Continued)

Knob Type 16mm Selector Switch

Specifications: Rating Contacts: • 250VAC: 3A (resistive) • 125VAC: 5A (resistive) • 30VDC: 3A (resistive) **LED Indicators:** • Rated Voltage: 24VDC • Rated Current: 10mA • Operating Voltage: 24VDC+5% **Dielectric Strength:** 1000VAC, 50/60 Hz for 1 minute between terminals of same polarity **Life Expectancy:** 100,000 operations minimum **Operating Temperature:** -10°C ~ 55°C **Ambient Humidity:** Operating 35% to 80% **Degree of Protection:** IP65

Fig. 1

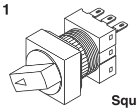

Square

Fig. 2

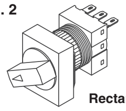

Rectangular

Fig. 3

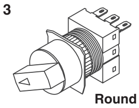

Round

Fig.	Switch Type	Position	Switch Function	Contacts	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
						Non-Illuminated						
1	Square	2 Position	Maintained (On-Off)	SPDT	—	Black	Z1363-ND	19.46	18.02	16.82	15.62	A165S-A2M-1
		2 Position	Spring Return (Momentary)	SPDT	—	Black	Z1364-ND	19.46	18.02	16.82	15.62	A165S-A2A-1
		3 Position	Maintained (On-Off-On)	DPDT	—	Black	Z1365-ND	21.67	20.07	18.73	17.40	A165S-A3M-2
2	Rectangular	2 Position	Maintained (On-Off)	SPDT	—	Black	Z1375-ND	19.46	18.02	16.82	15.62	A165S-J2M-1
		2 Position	Spring Return (Momentary)	SPDT	—	Black	Z1376-ND	19.46	18.02	16.82	15.62	A165S-J2A-1
		3 Position	Maintained (On-Off-On)	DPDT	—	Black	Z1377-ND	21.67	20.07	18.73	17.40	A165S-J3M-2
3	Round	2 Position	Maintained (On-Off)	SPDT	—	Black	Z1387-ND	19.46	18.02	16.82	15.62	A165S-T2M-1
		2 Position	Spring Return (Momentary)	SPDT	—	Black	Z1388-ND	19.46	18.02	16.82	15.62	A165S-T2A-1
		3 Position	Maintained (On-Off-On)	DPDT	—	Black	Z1389-ND	21.67	20.07	18.73	17.40	A165S-T3M-2
						Illuminated						
1	Square	2 Position	Spring Return (Momentary)	SPDT	24VDC	Green	Z1366-ND	25.15	23.29	21.74	20.18	A165W-A2AG-24D-1
						Red	Z1367-ND	25.15	23.29	21.74	20.18	A165W-A2AR-24D-1
						Yellow	Z1368-ND	25.15	23.29	21.74	20.18	A165W-A2AY-24D-1
		2 Position	Maintained (On-Off)	SPDT	24VDC	Green	Z1369-ND	25.15	23.29	21.74	20.18	A165W-A2MG-24D-1
						Red	Z1370-ND	25.15	23.29	21.74	20.18	A165W-A2MR-24D-1
						Yellow	Z1371-ND	25.15	23.29	21.74	20.18	A165W-A2MY-24D-1
		3 Position	Maintained (On-Off)	DPDT	24VDC	Green	Z1372-ND	27.36	25.34	23.65	21.96	A165W-A3MG-24D-2
						Red	Z1373-ND	27.36	25.34	23.65	21.96	A165W-A3MR-24D-2
						Yellow	Z1374-ND	27.36	25.34	23.65	21.96	A165W-A3MY-24D-2
3	Round	2 Position	Spring Return (Momentary)	SPDT	24VDC	Green	Z1390-ND	25.15	23.29	21.74	20.18	A165W-T2AG-24D-1
						Red	Z1391-ND	25.15	23.29	21.74	20.18	A165W-T2AR-24D-1
						Yellow	Z1392-ND	25.15	23.29	21.74	20.18	A165W-T2AY-24D-1
		2 Position	Maintained (On-Off)	SPDT	24VDC	Green	Z1393-ND	25.15	23.29	21.74	20.18	A165W-T2MG-24D-1
						Red	Z1394-ND	25.15	23.29	21.74	20.18	A165W-T2MR-24D-1
						Yellow	Z1395-ND	25.15	23.29	21.74	20.18	A165W-T2MY-24D-1
		3 Position	Maintained (On-Off)	DPDT	24VDC	Green	Z1396-ND	27.36	25.34	23.65	21.96	A165W-T3MG-24D-2
						Red	Z1397-ND	27.36	25.34	23.65	21.96	A165W-T3MR-24D-2
						Yellow	Z1398-ND	27.36	25.34	23.65	21.96	A165W-T3MY-24D-2

A22 Series Switches

Omron's A22 Series of pushbutton switches offer flexible features not found in other competitors switches. Switch blocks are hand snapped into the back of the switch body enabling the end user to replace, add or modify the switching outputs in seconds. If you need a DP switch simply snap on another switch block to complete your needs. Switch blocks feature screw-recessed (finger safe) terminals to meet both North American and European safety standards. Switches are water, oil and dust sealed to IP65 standards. Switch units come completely assembled and ready for installation. Purchase additional switch blocks for replacement and additions.

Rating Contacts: • 24VAC: 10A (inductive), 10A (resistive) • 110VAC: 5A (inductive), 10A (resistive) • 220VAC: 3A (inductive), 6A (resistive) **LED Indicators:** • Rated Voltage: 24 VAC/DC • Rated Current: 15mA • Operating Voltage: 24VAC/DC +5% **Dielectric Strength:** 2,500VAC, 50/60 Hz for 1 minute between terminals of same polarity **Life Expectancy:** • PB Illum/Non-Illum: 500,000 operations minimum • Emergency Stop: 300,000 operations minimum • Selector: 500,000 operations minimum **Ambient Humidity:** Operating 35% ~ 80% **Degree of Protection:** IP65

22mm Pilot Light

Indicator light only without the switch for indication of circuit status or warning. Matches switch assembly for uniform panel look.

Square

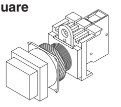

Round

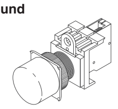

Light Type	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Square/ Extended	24VAC/ DC	Blue	Z1537-ND	30.67	28.41	26.51	M22-CA-24A
		Red	Z1539-ND	24.04	22.26	20.78	M22-CR-24A
		White	Z1540-ND	24.04	22.26	20.78	M22-CW-24A
		Yellow	Z1541-ND	24.04	22.26	20.78	M22-CY-24A
	110 VAC	Blue	Z1542-ND	39.80	36.86	34.40	M22-CA-T1
		Green	Z1543-ND	39.80	36.86	34.40	M22-CG-T1
		Red	Z1544-ND	39.80	36.86	34.40	M22-CR-T1
		White	Z1545-ND	39.80	36.86	34.40	M22-CW-T1
		Yellow	Z1546-ND	39.80	36.86	34.40	M22-CY-T1
Round/ Flush	12VAC/DC	Yellow	Z1597-ND	14.82	13.72	12.81	M22-FY-12A
	24VAC/ DC	Blue	Z1594-ND	24.04	22.26	20.78	M22-FA-24A
		Green	Z1589-ND	14.82	13.72	12.81	M22-FG-24A
		Red	Z1590-ND	14.82	13.72	12.81	M22-FR-24A
		White	Z1596-ND	14.82	13.72	12.81	M22-FW-24A
	110 VAC	Blue	Z1588-ND	30.67	28.41	26.51	M22-FA-T1
		Green	Z1595-ND	19.46	18.02	16.82	M22-FG-T1
		Red	Z1591-ND	19.46	18.02	16.82	M22-FR-T1
		White	Z1592-ND	19.46	18.02	16.82	M22-FW-T1
		Yellow	Z1593-ND	19.46	18.02	16.82	M22-FY-T1

22mm Accessories

Fig. 1

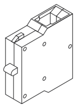

Fig. 2

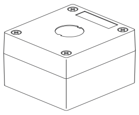

Fig. 3

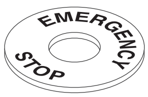

Fig. 4

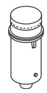

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Replacement Switch Block, SPST-NC, G.P., 10 Amp	Z1547-ND	6.63	6.15	5.74	A22-01
	Replacement Switch Block, SPST-NC, Microload	Z1548-ND	16.03	14.84	13.86	A22-01S
	Replacement Switch Block, DPST-NC, G.P., 10 Amp	Z1549-ND	25.70	23.80	22.22	A22-02
	Replacement Switch Block, DPST-NC, Microload	Z1550-ND	24.04	22.26	20.78	A22-02S
	Replacement Switch Block, SPST-NO, G.P., 10 Amp	Z1551-ND	6.63	6.15	5.74	A22-10
	Replacement Switch Block, SPST-NO, Microload	Z1552-ND	16.03	14.84	13.86	A22-10S
	Replacement Switch Block, DPST-NO, G.P., 10 Amp	Z1553-ND	17.13	15.87	14.81	A22-20
	Replacement Switch Block, DPST-NO, Microload	Z1554-ND	24.04	22.26	20.78	A22-20S
2	Control Box Enclosure; 1 Hole for 22mm Switches	Z1647-ND	21.67	20.07	18.73	A22Z-B101
	Emergency Yellow Enclosure; 1 Hole for 22mm Switches	Z1648-ND	22.66	20.99	19.59	A22Z-B101Y
	Control Box Enclosure; 2 Holes for 22mm Switches	Z1649-ND	34.28	31.74	29.63	A22Z-B102
	Control Box Enclosure; 3 Holes for 22mm Switches	Z1650-ND	56.94	52.72	49.21	A22Z-B103
3	Emergency Stop Plate, 60mm dia., Yellow w/Black Letters	Z1555-ND	6.08	5.63	5.26	A22Z-3466-1
	Emergency Stop Plate, 90mm dia., Yellow w/Black Letters	Z1556-ND	6.08	5.63	5.26	A22Z-3476-1
4	Replacement LED Lamp, Red 24VAC/DC	Z1576-ND	16.25	15.05	14.05	A22-24AR
	Replacement LED Lamp, Green 24VAC/DC	Z1577-ND	16.25	15.05	14.05	A22-24AG
	Replacement LED Lamp, Yellow 24VAC/DC	Z1578-ND	16.25	15.05	14.05	A22-24AY
	Replacement LED Lamp, Blue 24VAC/DC	Z1579-ND	19.46	18.02	16.82	A22-24AA
—	Replacement Incandescent Lamp, 120VAC	Z1580-ND	4.64	4.30	4.02	A22-H1
	Replacement Socket Assembly for Lamps	Z1581-ND	10.28	9.52	8.89	A22-TN
	Replacement Socket Assembly for Lamps, w/X-Former	Z1582-ND	15.81	14.64	13.66	A22-T1
	Replacement Latch Assembly for Switch Blocks	Z1583-ND	3.42	3.17	2.96	A22-3200
—	Fitting Wrench for Tightening Lock Nuts	Z1557-ND	15.81	14.64	13.66	A22Z-3905
	Extractor for Lamp and Switch Removal	Z1558-ND	4.86	4.51	4.21	A22Z-3901
	Lens Remover Tool	Z1559-ND	1.91	1.77	1.66	A3PJ-5080

(Continued)

Pushbutton Switch 22mm

Fig. 1

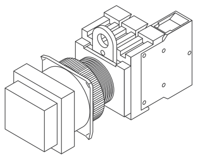

Fig. 2

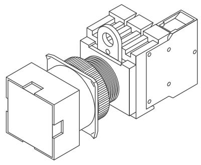

Fig. 3

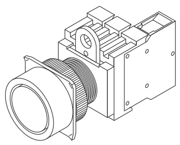

Fig. 4

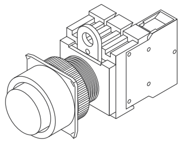

Fig. 5

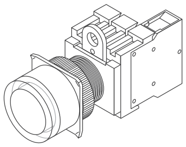

Fig. 6

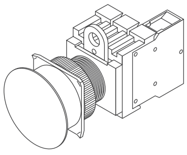

Fig. 7

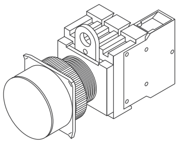

Fig.	Button Type	Contact Blocks Include	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each				Omron Part No.
						1	25	50	100	
Non-Illuminated Switches (Momentary Operations)										
1	Square/Extended Button	SPST-NO	—	Blue	Z1561-ND	18.24	16.89	15.77	14.64	A22-CA-10M
			—	Black	Z1562-ND	18.24	16.89	15.77	14.64	A22-CB-10M
			—	Green	Z1563-ND	18.24	16.89	15.77	14.64	A22-CG-10M
			—	White	Z1564-ND	18.24	16.89	15.77	14.64	A22-CW-10M
			—	Yellow	Z1565-ND	18.24	16.89	15.77	14.64	A22-CY-10M
2	Square/Full Guard Button	SPST-NO	—	Blue	Z1440-ND	18.24	16.89	15.77	14.64	A22-DA-10M
			—	Black	Z1441-ND	18.24	16.89	15.77	14.64	A22-DB-10M
			—	Green	Z1442-ND	18.24	16.89	15.77	14.64	A22-DG-10M
			—	White	Z1443-ND	18.24	16.89	15.77	14.64	A22-DW-10M
			—	Yellow	Z1444-ND	18.24	16.89	15.77	14.64	A22-DY-10M
		SPST-NO + SPST-NC	—	Red	Z1445-ND	25.15	23.29	21.74	20.18	A22-DR-11M
3	Round Flush Button	SPST-NO	—	Blue	Z1446-ND	13.71	12.70	11.85	11.01	A22-FA-10M
			—	Black	Z1447-ND	13.71	12.70	11.85	11.01	A22-FB-10M
			—	Green	Z1448-ND	13.71	12.70	11.85	11.01	A22-FG-10M
			—	Red	Z1449-ND	13.71	12.70	11.85	11.01	A22-FR-10M
			—	White	Z1450-ND	11.38	10.54	9.84	9.14	A22-FW-10M
			—	Yellow	Z1451-ND	13.71	12.70	11.85	11.01	A22-FY-10M
4	Round/Extended Button	SPST-NC	—	Red	Z1452-ND	12.60	11.68	10.90	10.12	A22-TR-01M
		SPST-NO + SPST-NC	—	Red	Z1453-ND	18.24	16.89	15.77	14.64	A22-TR-11M
5	Round Full-Guard Button	SPST-NO	—	Blue	Z1454-ND	13.71	12.70	11.85	11.01	A22-GA-10M
			—	Black	Z1455-ND	13.71	12.70	11.85	11.01	A22-GB-10M
			—	Green	Z1456-ND	13.71	12.70	11.85	11.01	A22-GG-10M
			—	Red	Z1457-ND	13.71	12.70	11.85	11.01	A22-GR-10M
			—	White	Z1458-ND	13.71	12.70	11.85	11.01	A22-GW-10M
			—	Yellow	Z1459-ND	13.71	12.70	11.85	11.01	A22-GY-10M
6	Medium-size Mushroom (40-mm dia head)	SPST-NC	—	Red	Z1460-ND	16.03	14.84	13.86	12.87	A22-MR-01M
		SPST-NO	—	Blue	Z1461-ND	16.03	14.84	13.86	12.87	A22-MA-10M
			—	Black	Z1462-ND	16.03	14.84	13.86	12.87	A22-MB-10M
			—	Green	Z1463-ND	16.03	14.84	13.86	12.87	A22-MG-10M
			—	White	Z1464-ND	16.03	14.84	13.86	12.87	A22-MW-10M
			—	Yellow	Z1465-ND	16.03	14.84	13.86	12.87	A22-MY-10M
7	Small-size Mushroom (30-mm dia. Head)	SPST-NC	—	Red	Z1466-ND	15.81	14.64	13.66	12.69	A22-SR-01M
		SPST-NO	—	Blue	Z1467-ND	14.82	13.72	12.81	11.89	A22-SA-10M
			—	Black	Z1468-ND	14.82	13.72	12.81	11.89	A22-SB-10M
			—	Green	Z1469-ND	14.82	13.72	12.81	11.89	A22-SG-10M
			—	White	Z1470-ND	14.82	13.72	12.81	11.89	A22-SW-10M
			—	Yellow	Z1471-ND	14.82	13.72	12.81	11.89	A22-SY-10M
Non-Illuminated Switches (Latching Operations)										
1	Square/Extended Button	SPST-NC	—	Red	Z1572-ND	26.25	24.31	22.69	21.07	A22-CR-01A
		SPST-NO + SPST-NC	—	Black	Z1573-ND	34.28	31.74	29.63	27.51	A22-CB-11A
Illuminated Switches (Momentary Operations)										
2	Square/Full Guard Button LED Illuminated	SPST-NO	24 VAC/DC	Blue	Z1474-ND	53.62	49.65	46.34	43.03	A22L-DA-24A-10M
				Green	Z1475-ND	32.89	30.45	28.42	26.39	A22L-DG-24A-10M
				White	Z1476-ND	32.89	30.45	28.42	26.39	A22L-DW-24A-10M
				Yellow	Z1477-ND	32.89	30.45	28.42	26.39	A22L-DY-24A-10M
		SPST-NO	110 VAC	Blue	Z1478-ND	58.04	53.75	50.16	46.58	A22L-DA-T1-10M
				Green	Z1479-ND	38.70	35.84	33.45	31.06	A22L-DG-T1-10M
3	Round/Clear Full Guard Button LED Illuminated	SPST-NC	24 VAC/DC	Red	Z1482-ND	25.15	23.29	21.74	20.18	A22L-GR-24A-01M
		SPST-NO	24 VAC/DC	Blue	Z1483-ND	45.61	42.23	39.42	36.60	A22L-GA-24A-10M
				Green	Z1484-ND	25.15	23.29	21.74	20.18	A22L-GG-24A-10M
				White	Z1485-ND	25.15	23.29	21.74	20.18	A22L-GW-24A-10M
				Yellow	Z1486-ND	25.15	23.29	21.74	20.18	A22L-GY-24A-10M
		SPST-NC	110 VAC	Red	Z1487-ND	30.67	28.41	26.51	24.62	A22L-GR-T1-01M
		SPST-NO	110 VAC	Blue	Z1488-ND	50.03	46.33	43.24	40.15	A22L-GA-T1-10M
				Green	Z1489-ND	30.67	28.41	26.51	24.62	A22L-GG-T1-10M
4	Round/Extended Button LED Illuminated	SPST-NC	24 VAC/DC	Red	Z1492-ND	20.57	19.05	17.78	16.51	A22L-TR-24A-01M
		SPST-NO	24 VAC/DC	Green	Z1494-ND	20.57	19.05	17.78	16.51	A22L-TG-24A-10M
				White	Z1495-ND	20.57	19.05	17.78	16.51	A22L-TW-24A-10M
				Yellow	Z1496-ND	20.57	19.05	17.78	16.51	A22L-TY-24A-10M
		SPST-NC	110 VAC	Red	Z1497-ND	26.25	24.31	22.69	21.07	A22L-TR-T1-01M
		SPST-NO	110 VAC	Green	Z1499-ND	26.25	24.31	22.69	21.07	A22L-TG-T1-10M
				White	Z1500-ND	26.25	24.31	22.69	21.07	A22L-TW-T1-10M
				Yellow	Z1501-ND	26.25	24.31	22.69	21.07	A22L-TY-T1-10M

(Continued)

Emergency Stop Pushbutton Switches

Fig. 1

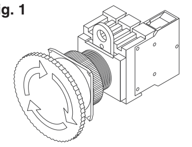

Fig. 2

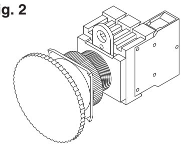

Fig. 3

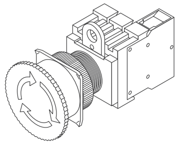

Fig. 4

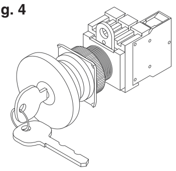

Fig. 5

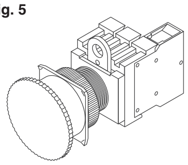

Fig. 6

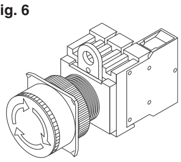

Fig. 7

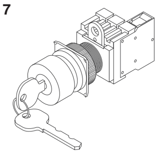

Fig. 8

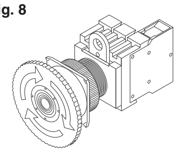

Omron Emergency stop switches feature a positive opening mechanism with minimal contact separation of 3mm in accordance with EN60947-5-1. Safety lock mechanism prevents misuse or tampering. Innovative two-piece snap together construction reduces installation time and shorter panel depth requirements. Use for Emergency Stop switching on equipment, conveyors and augers, construction equipment and vehicles. Red cap standard. **Contacts**: 10A@110VAC or 24VDC

Fig.	Switch Type	Contact	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
			Non-Lighted Models					
1	60-dia. Head Push-lock Turn-reset	SPST-NC	Z1502-ND	34.82	32.25	30.10	27.95	A22E-L-01
2	60-dia. Head Push-pull	SPST-NC	Z1503-ND	41.46	38.39	35.83	33.27	A22E-LP-01
3	40-dia. Head Push-lock Turn-reset	SPST-NC	Z1504-ND	31.78	29.43	27.47	25.51	A22E-M-01
4	40-dia. Head Push-lock Key-reset	SPST-NC SPST-NO/SPST-NC	Z1505-ND Z1560-ND	58.60 49.47	54.26 45.81	50.65 42.76	47.03 39.70	A22E-MK-01 A22E-MK-11
5	40-dia. Head Push-pull	SPST-NC SPST-NO/SPST-NC	Z1506-ND Z1507-ND	39.25 48.36	36.34 44.79	33.92 41.80	31.50 38.82	A22E-MP-01 A22E-MP-11
6	30-dia. Head Push-lock Turn-reset	SPST-NC	Z1508-ND	39.25	36.34	33.92	31.50	A22E-S-01
7	30-dia. Head Push-lock Key-reset	SPST-NC	Z1509-ND	49.47	45.81	42.76	39.70	A22E-SK-01

Fig.	Switch Type	Contact	Illumination Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
				Lighted Models					
8	40-dia. Head Push-lock Turn-reset	SPST-NC	24 VAC/DC (LED)	Z1510-ND	51.68	47.86	44.67	41.48	A22EL-M- 24A-01
	40-dia. Head Push-lock Turn-reset withTrans.	SPST-NC	110 VAC (LED)	Z1511-ND	60.25	55.79	52.08	48.36	A22EL-M-T1-01

Key Type Selector Switches

Key Selector switches for secured switching or resetting. Available in either momentary or Alternate Action. (IP65 oil and dust tight construction.) Comes complete with 2 keys. **Contact**: 10A@110VAC or 24VDC

Switch Type	No. of Positions	Contacts	Key Positions Pos. 1	Pos. 2	Pos. 3	Key Removable Position	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
Key Type Selector Switch	2	SPST-NO	On	Mom	—	1	Z1530-ND	24.04	22.26	20.78	19.30	A22K-2AL-10
			On	Off	—	1 & 2	Z1531-ND	24.04	22.26	20.78	19.30	A22K-2M-10
			On	Off	—	1	Z1532-ND	24.04	22.26	20.78	19.30	A22K-2ML-10
	3	SPST-NO + SPST-NC	Mom	Off	Mom	2	Z1533-ND	32.89	30.45	28.42	26.39	A22K-3AC-11
			On	On	Off	1 & 3	Z1534-ND	32.89	30.45	28.42	26.39	A22K-3M-11
			On	On	Off	2	Z1535-ND	32.89	30.45	28.42	26.39	A22K-3MC-11
			On	On	Off	1	Z1536-ND	32.89	30.45	28.42	26.39	A22K-3ML-11
Replacement Key for Key Type Selector Switches							Z1669-ND	4.75	4.40	4.11	3.82	A22KK

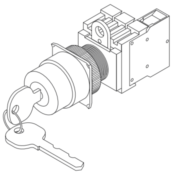

Knob Type Selector Switches

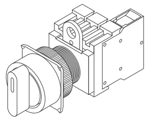

Large easy to switch knob selector switches for On-Off and selection for control of industrial controls. Snap acting type switch feedback ensures confident operator feedback during switching, even while wearing gloves. Available in either non-illuminated or LED illuminated versions. (IP65 oil and dust tight construction.)
Contacts: 10A@110VAC or 24VDC

Switch Type	No. of Position	Switch Function	Contacts	Illumination Voltage	Lens Color	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
					Non-Illuminated						
Knob-type Selector Switch	2	Spring Return (Off-Mom)	SPST-NO	—	Black	Z1512-ND	16.03	14.84	13.86	12.87	A22S-2A-10
	2	Maintained (On-Off)	SPST-NO	—	Black	Z1513-ND	15.81	14.64	13.66	12.69	A22S-2M-10
	3	Spring Return (Mom-Off-Mom)	SPST-NO + SPST-NC	—	Black	Z1574-ND	20.57	19.05	17.78	16.51	A22-3A-11
	3	Maintained (On-Off-On)	SPST-NO + SPST-NC	—	Black	Z1575-ND	20.57	19.05	17.78	16.51	A22-3M-11
	3	Maintained (On-Off-On)	DPST-NO	—	Black	Z2505-ND◊ ***NEW!***	20.57	19.05	17.78	16.51	A22S-3M-20
					Illuminated						
Knob-type Selector Switch	2	Spring Return (Momentary)	SPST-NO	24 VAC/DC	Blue Green Red Yellow	Z1514-ND Z1515-ND Z1516-ND Z1517-ND	47.82 28.46 28.46 28.46	44.28 26.36 26.36 26.36	41.33 24.60 24.60 24.60	38.38 22.85 22.85 22.85	A22W-2AA-24A-10 A22W-2AG-24A-10 A22W-2AR-24A-10 A22W-2AY-24A-10
	2	Maintained (On-Off)	SPST-NO	24 VAC/DC	Blue Green Red Yellow	Z1518-ND Z1519-ND Z1520-ND Z1521-ND	47.82 28.46 28.46 28.46	44.28 26.36 26.36 26.36	41.33 24.60 24.60 24.60	38.38 22.85 22.85 22.85	A22W-2MA-24A-10 A22W-2MG-24A-10 A22W-2MR-24A-10 A22W-2MY-24A-10

◊RoHS Compliant

COPAL ELECTRONICS Surface Mount Slide Switches CAS Series

Electrical Characteristics: • **Contact Rating:** Non-switching DC50 V 100mA, Switching DC6V, 100mA DC24 V, 25mA, Minimum DC20mV 1µa, • **Contact Resistance:** 50mΩ maximum (1.5mA, 1kHz, 20mV) • **Insulation Resistance:** 1000MΩ (DC 100V) minimum • **Dielectric Strength:** AC500 V, 50Hz, 60s

Fig. 1

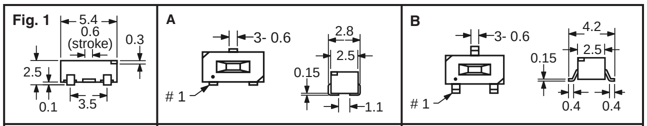

Fig. 2

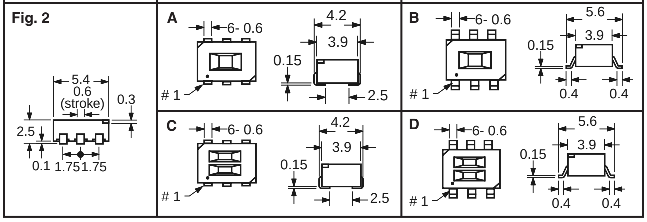

Fig.	No. of Poles	Description	Digi-Key Part No.	Cut Tape Price Each 10	100	Tape & Reel Pricing* 1,000	Copal Part No.
1A	2	SPDT, J Hook	CAS120JCT-ND	1.98	1.43	660.00	CAS-120TA
1B	2	SPDT, Gullwing	CAS120GCT-ND	1.76	1.27	585.00	CAS-120TB
2A	2	DPDT, J Hook	CAS220JCT-ND	3.15	2.28	1050.00	CAS-220TA
2B	2	DPDT, Gullwing	CAS220GCT-ND	3.78	2.73	1050.00	CAS-220TB
2C	2	SPDT 2 pos. J Hook	CASD20JCT-ND	3.15	2.28	1050.00	CAS-D20TA
2D	2	SPDT 2 pos. Gullwing	CASD20GCT-ND	3.15	2.28	1050.00	CAS-D20TB

* For Tape and Reel part number, change CT-ND to TR-ND.

SMD Momentary Key Switches

Electrical Characteristics: • **Contact Rating: Maximum Current:** 100mA; **Maximum Voltage:** 24V • **Contact Resistance:** 100mΩ maximum • **Insulation Resistance:** 100MΩ minimum (DC500V) ***General Characteristics:*** • **Switch Type:** Normally Open • **Operating Temperature Range:** -55°C ~ 125°C • **Dielectric Strength:** 250VAC. ***Mechanical Characteristics:*** • **Cycle Life, Loaded:** 10,000 actuations.

J-Hook

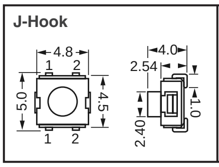

Gull Wing

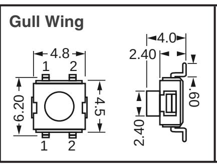

PCB Layout

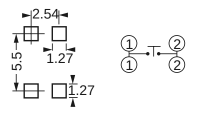

Type	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	1,000	5,000
J-Hook	7914J-000ECT-ND	.95	.84	.71	7914J-000ETR-ND	270.00	473.00	405.00/M
Gull Wing	7914G-000ECT-ND	.95	.84	.71	7914G-000ETR-ND	270.00	473.00	405.00/M

Sealed Selector Switches

Electrical Characteristics: • **Contact Rating: Maximum Current:** 100mA **Maximum Voltage:** 24V • **Contact Timing:** Non-Shorting • **Contact Resistance:** 2Ω maximum • **Insulation Resistance:** 100MΩ minmum (DC500V) • **Dielectric Strength:** 250VAC • ***General Characteristics:*** • **Switch Type:** SPDT • **Operating Temperature Range:** -55°C ~ 125°C

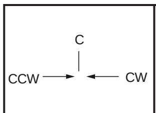

Fig. 1
7813J

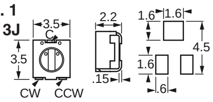

• **Mechanical Angle:** 245°C ±15° • **Positions:** 2 • **Adjustment Torque:** 50g. cm max. • **Stop Strength:** 200g. cm min. • **Switching Angle:** 45° ± 5° • **Seal Test:** 85°C Flouriner • **Rotational Life: -051:** 50 cycles; **-023:** 2000 cycles • **Maximum Soldering Heat:** 260°C, 5 seconds

Fig. 2
7814G

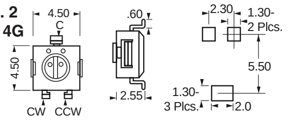

Fig. 3
7814J

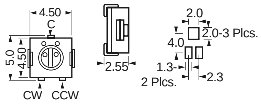

• **Mechanical Angle:** 240° ±15° • **Positions:** 2 • **Adjustment Torque:** 180g. cm maximum • **Stop Strength:** 300g. cm minimum • **Switching Angle:** 45° ± 5° • **Pushover Strength (S Style):** 2 kilograms minimum • **Rotational Life: -051:** 50 cycles **-023:** 2000 cycles • **Maximum Soldering Heat:** 260°C, 10 seconds

Fig.	Size (mm)	Life	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 500	1,000
1	3	50	7813J-051ECT-ND	2.10	1.86	1.56	7813J-051ETR-ND	—	1050.00
	3	2000	7813J-023ECT-ND	2.31	2.05	1.72	7813J-023ETR-ND	—	1155.00
2	4	50	7814G-051ECT-ND	2.10	1.86	1.56	7814G-051ETR-ND	600.00	1050.00
	4	2000	7814G-023ECT-ND	2.31	2.05	1.72	7814G-023ETR-ND	660.00	1155.00
3	4	50	7814J-051ECT-ND	2.10	1.86	1.56	7814J-051ETR-ND	600.00	1050.00
	4	2000	7814J-023ECT-ND	2.31	2.05	1.72	7814J-023ETR-ND	660.00	1155.00

NKK SWITCHES Illuminated Low Profile Pushbutton Switches

Snap-action contact mechanism. Alternate action models with latchdown for indication of circuit status. Snap-in mount (W01) with solder lug terminals and silver contacts: PCB mount (G03) with straight PC terminals and gold contacts.

Features: • **Electrical Capacity:** • **Power Level (code W):** 5A @ 125/250VAC or 5A @ 30VDC • **Logic Level (code G):** 0.4VA maximum @ 28V AC/DC maximum. • **Dielectric Strength:** 1,000VAC minimum between contacts. • **Mechanical Life:** 1,000,000 operations minimum (momentary); 200,000 operations minimum (alternate action). • **Electrical Life:** 10,000 operations minimum (silver); 200,000 operations minimum (gold). • **Total Travel:** .091”. **Operation Force:** 160 grams for single pole, 260 grams for double pole. • **Contact Timing:** Break before make. • **Operating Temperature:** -25°C ~ 50°C.

UB models: **UL recognized and CSA certified;** UB2 models: **UL recognized**. (No UL/CSA mark on switch.) LED Rating: Red 1.85V @ 20mA, Amber 2.0V @ 20mA, Green 2.25V @ 20mA.

Fig. 1

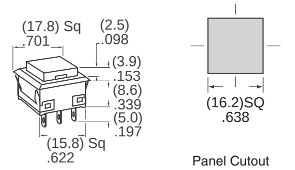

Panel Cutout

Fig. 2

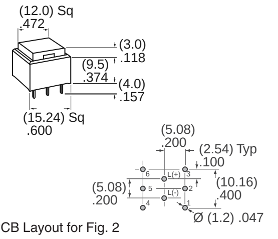

PCB Layout for Fig. 2

Fig.	Circuit	Switching Function	LED	Cap Description	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
Square Snap-in Mount, Single Element LED (UB Series) — 5A									
1	SPDT	On-Mom	Red	Red Lens - Red Diff.	360-1525-ND	11.91	9.53	7.55	UB15KKW015C-CC
	SPDT	On-Mom	Amber	Amber Lens - Amber Diff.	360-1526-ND	11.91	9.53	7.55	UB15KKW015D-DD
	SPDT	On-Mom	Green	Green Lens - Green Diff.	360-1527-ND	11.91	9.53	7.55	UB15KKW015F-FF
	DPDT	On-Mom	Red	Red Lens - Red Diff.	360-1531-ND	15.12	12.10	9.58	UB25KKW015C-CC
	DPDT	On-Mom	Amber	Amber Lens - Amber Diff.	360-1532-ND	15.12	12.10	9.58	UB25KKW015D-DD
	DPDT	On-Mom	Green	Green Lens - Green Diff.	360-1533-ND	15.12	12.10	9.58	UB25KKW015F-FF
Square PCB Mount, Single Element LED (UB Series) — .4VA									
2	SPDT	On-Mom	Red	Red Lens - Red Diff.	360-1537-ND	11.43	9.15	7.24	UB15SKG035C-CC
	SPDT	On-Mom	Amber	Amber Lens - Amber Diff.	360-1538-ND	11.43	9.15	7.24	UB15SKG035D-DD
	SPDT	On-Mom	Green	Green Lens - Green Diff.	360-1539-ND	11.43	9.15	7.24	UB15SKG035F-FF
	DPDT	On-Mom	Red	Red Lens - Red Diff.	360-1543-ND	15.30	12.24	9.69	UB25SKG035C-CC
	DPDT	On-Mom	Amber	Amber Lens - Amber Diff.	360-1544-ND	15.30	12.24	9.69	UB25SKG035D-DD
	DPDT	On-Mom	Green	Green Lens - Green Diff.	360-1545-ND	15.30	12.24	9.69	UB25SKG035F-FF

Illuminated Washable Tactile Switches

Fig. 1

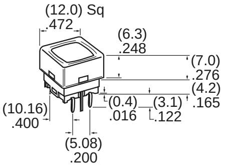

Fig. 2

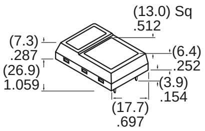

Dim. in (mm) Inch

JB Series - Illuminated, Low Profile Momentary Switches:

Bright full face LED illumination for extremely long life. Completely sealed for extreme operating environments and automated soldering processes. Higher operating force provides more pronounced operating feel. All lenses come standard with diffused colored lens unless noted as clear. Terminal spacing conforming to .100” PCB grid. Straight, molded-in PC terminals. Single pole, single throw, variety of cap colors. Red, yellow or green LEDs. **Electrical Capacity:** 50mA @ 24VDC, maximum **Dielectric Strength:** 250VAC minimum **Mechanical Life:** 5,000,000 operations minimum **Electrical Life:** 5,000,000 operations minimum **Operating Temperature:** -25°C ~ 70°C. **Total Travel:** .010”

JF Series - Illuminated, Ultra-Thin Momentary Switches:

JF Series are washable tactile switches with crisp tactile feedback. Terminal spacing conforming to .100” PCB grid. Single pole, single throw, variety of cap colors. Red, yellow or green LEDs. **Electrical Capacity:** 50mA @ 24VDC maximum **Dielectric Strength:** 250VAC minimum **Mechanical Life:** 500,000 operations minimum **Electrical Life:** 500,000 operations minimum **Operating Temperature:** -25°C ~ 50°C. **Total Travel:** .016”.

Fig.	Circuit	LED Color	Cap Description	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
JB Series Illuminated Low Profile Switches								
1	SPST	Red	Clear Lens, White Diffuser	360-1260-ND	4.62	3.70	2.93	JB15LPC-JB
	SPST	Red	Clear Lens, Red Diffuser	360-1261-ND	4.62	3.70	2.93	JB15LPC-JC
	SPST	Yellow	Clear Lens, White Diffuser	360-1262-ND	4.62	3.70	2.93	JB15LPE-JB
	SPST	Yellow	Clear Lens, Yellow Diffuser	360-1263-ND	4.62	3.70	2.93	JB15LPE-JE
	SPST	Green	Clear Lens, White Diffuser	360-1264-ND	4.62	3.70	2.93	JB15LPF-JB
	SPST	Green	Clear Lens, Green Diffuser	360-1265-ND	4.62	3.70	2.93	JB15LPF-JF
JF Series Illuminated Ultra Thin Switches								
2	SPST	Red	—	360-1266-ND	7.68	6.15	4.87	JF15AP1CC
	SPST	Yellow	—	360-1267-ND	9.24	7.40	5.86	JF15AP1EE
	SPST	Green	—	360-1268-ND	8.01	6.41	5.08	JF15AP1FF

NKK® SWITCHES

Illuminated Pushbutton Switches

KB Series Miniature Bushing Mount:

The KB pushbuttons are SPDT or DPDT snap acting contact mechanism, providing long electrical life and pronounced sensitivity. Comes complete with nut. 12mm diameter makes this switch ideal for stacking into a panel using minimal room. LED illumination for long service life.

Electrical Capacity: 1A @ 125/250VAC or 30VDC for silver contacts. **Dielectric Strength:** 1,500VAC minimum between contacts and case. **Mechanical Life:** 100,000 operations minimum **Electrical Life:** 50,000 operations minimum (silver). **Total Travel:** .118". **Operating Temperature:** -25°C ~ 50°C. **UL recognized & CSA certified @** 1A rating.

Fig.	Circuit	Switching Function	Color	Digi-Key Part No.	Price Each			NKK Part No.
					1	25	100	
KB Series Square Bezel Switches								
1	SPDT	On-Mom	Red	360-1607-ND	12.87	10.30	8.16	KB15SKW01-5C-JC
	SPDT	On-Mom	Amber	360-1608-ND	12.87	10.30	8.16	KB15SKW01-5D-JD
	SPDT	On-Mom	Green	360-1609-ND	12.87	10.30	8.16	KB15SKW01-5F-JF
	SPDT	On-On	Red	360-1610-ND	13.77	11.02	8.73	KB16SKW01-5C-JC
	SPDT	On-On	Amber	360-1611-ND	13.77	11.02	8.73	KB16SKW01-5D-JD
	SPDT	On-On	Green	360-1612-ND	13.77	11.02	8.73	KB16SKW01-5F-JF
	DPDT	On-Mom	Red	360-1613-ND	15.84	12.68	10.04	KB25SKW01-5C-JC
	DPDT	On-Mom	Amber	360-1614-ND	15.84	12.68	10.04	KB25SKW01-5D-JD
	DPDT	On-On	Red	360-1616-ND	16.68	13.35	10.57	KB26SKW01-5C-JC
	DPDT	On-On	Amber	360-1617-ND	16.68	13.35	10.57	KB26SKW01-5D-JD
	DPDT	On-On	Green	360-1618-ND	16.68	13.35	10.57	KB26SKW01-5F-JF
KB Series Round Bezel Switches								
2	SPDT	On-Mom	Red	360-1619-ND	12.87	10.30	8.16	KB15CKW01-5C-JC
	SPDT	On-Mom	Amber	360-1620-ND	12.87	10.30	8.16	KB15CKW01-5D-JD
	SPDT	On-Mom	Green	360-1621-ND	12.87	10.30	8.16	KB15CKW01-5F-JF
	SPDT	On-On	Red	360-1622-ND	13.77	11.02	8.73	KB16CKW01-5C-JC
	SPDT	On-On	Amber	360-1623-ND	13.77	11.02	8.73	KB16CKW01-5D-JD
	SPDT	On-On	Green	360-1624-ND	13.77	11.02	8.73	KB16CKW01-5F-JF
	DPDT	On-Mom	Red	360-1625-ND	15.84	12.68	10.04	KB25CKW01-5C-JC
	DPDT	On-Mom	Amber	360-1626-ND	15.84	12.68	10.04	KB25CKW01-5D-JD
	DPDT	On-Mom	Green	360-1627-ND	15.84	12.68	10.04	KB25CKW01-5F-JF
	DPDT	On-On	Red	360-1628-ND	16.68	13.35	10.57	KB26CKW01-5C-JC
	DPDT	On-On	Amber	360-1629-ND	16.68	13.35	10.57	KB26CKW01-5D-JD
	DPDT	On-On	Green	360-1630-ND	16.68	13.35	10.57	KB26CKW01-5F-JF
KB Series Rectangular Bezel Switches								
3	SPDT	On-Mom	Red	360-1631-ND	12.87	10.30	8.16	KB15RKW01-5C-JC
	SPDT	On-Mom	Amber	360-1632-ND	12.87	10.30	8.16	KB15RKW01-5D-JD
	SPDT	On-Mom	Green	360-1633-ND	12.87	10.30	8.16	KB15RKW01-5F-JF
	SPDT	On-On	Red	360-1634-ND	13.77	11.02	8.73	KB16RKW01-5C-JC
	SPDT	On-On	Amber	360-1635-ND	13.77	11.02	8.73	KB16RKW01-5D-JD
	SPDT	On-On	Green	360-1636-ND	13.77	11.02	8.73	KB16RKW01-5F-JF
	DPDT	On-Mom	Red	360-1637-ND	15.84	12.68	10.04	KB25RKW01-5C-JC
	DPDT	On-Mom	Amber	360-1638-ND	15.84	12.68	10.04	KB25RKW01-5D-JD
	DPDT	On-Mom	Green	360-1639-ND	15.84	12.68	10.04	KB25RKW01-5F-JF
	DPDT	On-On	Red	360-1640-ND	16.68	13.35	10.57	KB26RKW01-5C-JC
	DPDT	On-On	Amber	360-1641-ND	16.68	13.35	10.57	KB26RKW01-5D-JD
	DPDT	On-On	Green	360-1642-ND	16.68	13.35	10.57	KB26RKW01-5F-JF
KB Accessories								
—	Socket Wrench for Panel Mount KB Series			360-1000-ND	2.34	1.88	1.49	AT108
4	Protective Guard for Square/Round KB Series			360-1004-ND	1.98	1.59	1.26	AT494
	Protective Guard for Rectangular KB Series			360-1006-ND	2.16	1.73	1.37	AT4024

Dim. in (mm) Inch

Fig. 1

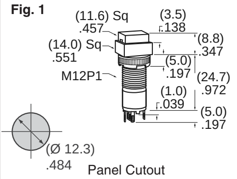

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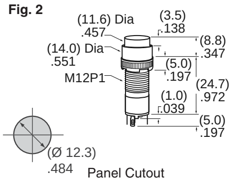

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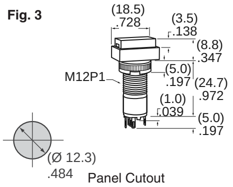

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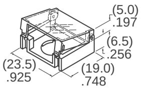

KB Switch Guard

LB Series Standard Size Snap-in Mount:

The pushbutton switch is designed with a single-break, snap-action contact mechanism. The combined butterfly formation and spring action of the movable contact create the quick-make, quick-break characteristic which limits arcing and prolongs electrical life. The switch is offered with momentary or alternate action circuits in single or double pole configurations.

Electrical Capacity: 3A @ 125/250VAC or 30VDC for silver contacts. **Dielectric Strength:** 1,500 VAC minimum between contacts and case. **Mechanical Life:** 1,000,000 operations minimum for momentary; 200,000 operations minimum for maintained. **Electrical Life:** 100,000 operations minimum **Total Travel:** .118" **Operating Temperature:** -25°C ~ 50°C. **UL recognized and CSA certified** @ 3A rating.

Fig.	Circuit	Switching Function	Color	Digi-Key Part No.	Price Each			NKK Part No.
					1	25	100	
LB Series Square Bezel Switches								
1	SPDT	On-Mom	Red	360-1643-ND	18.00	14.40	11.40	LB15SKW01-5C-JC
	SPDT	On-Mom	Amber	360-1644-ND	18.00	14.40	11.40	LB15SKW01-5D-JD
	SPDT	On-Mom	Green	360-1645-ND	18.00	14.40	11.40	LB15SKW01-5F-JF
	SPDT	On-On	Red	360-1646-ND	19.98	15.99	12.66	LB16SKW01-5C-JC
	SPDT	On-On	Amber	360-1647-ND	19.98	15.99	12.66	LB16SKW01-5D-JD
	SPDT	On-On	Green	360-1648-ND	19.98	15.99	12.66	LB16SKW01-5F-JF
	DPDT	On-Mom	Red	360-1649-ND	21.30	17.04	13.49	LB25SKW01-5C-JC
	DPDT	On-Mom	Amber	360-1650-ND	21.30	17.04	13.49	LB25SKW01-5D-JD
	DPDT	On-Mom	Green	360-1651-ND	21.30	17.04	13.49	LB25SKW01-5F-JF
	DPDT	On-On	Red	360-1652-ND	23.28	18.63	14.75	LB26SKW01-5C-JC
	DPDT	On-On	Amber	360-1653-ND	23.28	18.63	14.75	LB26SKW01-5D-JD
	DPDT	On-On	Green	360-1654-ND	23.28	18.63	14.75	LB26SKW01-5F-JF
LB Series Round Bezel Switches								
2	SPDT	On-Mom	Red	360-1655-ND	18.00	14.40	11.40	LB15CKW01-5C-JC
	SPDT	On-Mom	Amber	360-1656-ND	18.00	14.40	11.40	LB15CKW01-5D-JD
	SPDT	On-Mom	Green	360-1657-ND	18.00	14.40	11.40	LB15CKW01-5F-JF
	SPDT	On-On	Red	360-1658-ND	19.98	15.99	12.66	LB16CKW01-5C-JC
	SPDT	On-On	Amber	360-1659-ND	19.98	15.99	12.66	LB16CKW01-5D-JD
	SPDT	On-On	Green	360-1660-ND	19.98	15.99	12.66	LB16CKW01-5F-JF
	DPDT	On-Mom	Red	360-1661-ND	21.30	17.04	13.49	LB25CKW01-5C-JC
	DPDT	On-Mom	Amber	360-1662-ND	21.30	17.04	13.49	LB25CKW01-5D-JD
	DPDT	On-Mom	Green	360-1663-ND	21.30	17.04	13.49	LB25CKW01-5F-JF
	DPDT	On-On	Red	360-1664-ND	23.28	18.63	14.75	LB26CKW01-5C-JC
	DPDT	On-On	Amber	360-1665-ND	23.28	18.63	14.75	LB26CKW01-5D-JD
	DPDT	On-On	Green	360-1666-ND	23.28	18.63	14.75	LB26CKW01-5F-JF
LB Series Rectangular Bezel Switches								
3	SPDT	On-Mom	Red	360-1667-ND	18.00	14.40	11.40	LB15RKW01-5C-JC
	SPDT	On-Mom	Amber	360-1668-ND	18.00	14.40	11.40	LB15RKW01-5D-JD
	SPDT	On-Mom	Green	360-1669-ND	18.00	14.40	11.40	LB15RKW01-5F-JF
	SPDT	On-On	Red	360-1670-ND	19.98	15.99	12.66	LB16RKW01-5C-JC
	SPDT	On-On	Amber	360-1671-ND	19.98	15.99	12.66	LB16RKW01-5D-JD
	SPDT	On-On	Green	360-1672-ND	19.98	15.99	12.66	LB16RKW01-5F-JF
	DPDT	On-Mom	Red	360-1673-ND	21.30	17.04	13.49	LB25RKW01-5C-JC
	DPDT	On-Mom	Amber	360-1674-ND	21.30	17.04	13.49	LB25RKW01-5D-JD
	DPDT	On-Mom	Green	360-1675-ND	21.30	17.04	13.49	LB25RKW01-5F-JF
	DPDT	On-On	Red	360-1676-ND	23.28	18.63	14.75	LB26RKW01-5C-JC
	DPDT	On-On	Amber	360-1677-ND	23.28	18.63	14.75	LB26RKW01-5D-JD
	DPDT	On-On	Green	360-1678-ND	23.28	18.63	14.75	LB26RKW01-5F-JF
LB Accessories								
4	Protective Guard for Square LB Series			360-1005-ND	2.82	2.26	1.79	AT499
	Protective Guard for Rectangular LB Series			360-1007-ND	2.82	2.26	1.79	AT4057

Dim. in (mm) Inch

Fig. 1

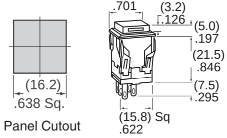

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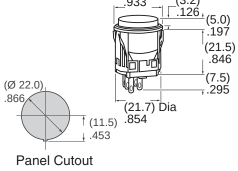

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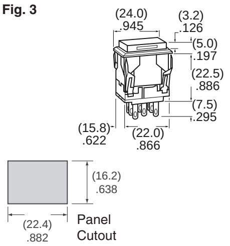

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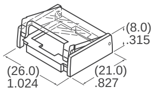

CW INDUSTRIES Slide Switches

Made in U.S.A.

Fig. 1
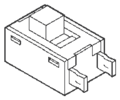
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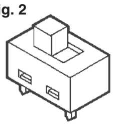
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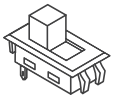
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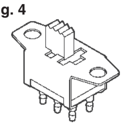
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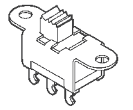
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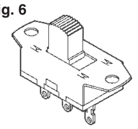
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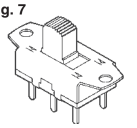
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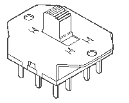
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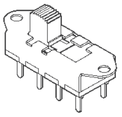
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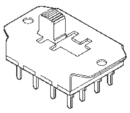
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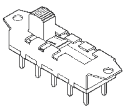
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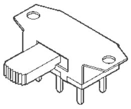
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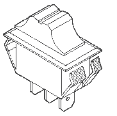
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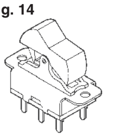
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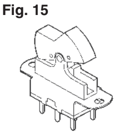
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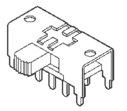
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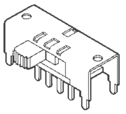
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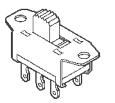
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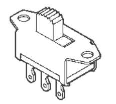
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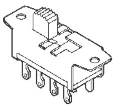
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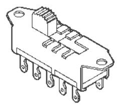
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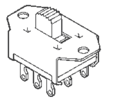
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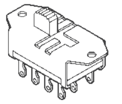
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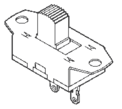
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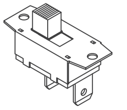
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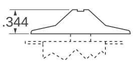

CW Industries slide switches became popular with the industrial explosion after World War I. Thousands of consumer products have used CW Industries slide switches for applications such as: radios, TVs, appliances, and automotive. Aircraft, telephones, and marine equipment use CW Industries slide switches for both power switching and low level switching. Available in both solder eyelet versions for hand soldering or pc mount terminals for direct mounting. All slide switch actuators and buttons are black nylon 6/6. **MATERIALS:** • Buttons: Type 6/6 nylon, black • Moving Contact: Copper; • Moving Contact Plating**:** Silver •Terminals: Copper • Terminal Plating: Silver **Specifications:** • High Voltage Breakdown: Minimum of 1000 volts RMS, 60Hz for one minute between parts of opposite polarity. • Contact resistance: Less than 0.01Ω at 20 milliamperes dc. • Life Cycling (no load): Switches will be operative after 10,000 (minimum) cycles at the rate of 10 cycles per minute • Life Cycling (load)**:** Switches will be operative after 6,000 (minimum) cycles at the rate of 10 cycles per minute at rated load. **APPROVAL LISTING:** UL/CSA

Digi-Key® Slide Switches Kit

Assortment of switches denoted. Includes notebook style storage case and bin storage guide.

*** SW-KIT-ND** 140 total pieces **$69.95**

		Volts		Curr. Rtg. (A)		Dimensions - Inch (mm)		Digi-Key	Price Each				CW Industries
Fig.	Circuit	DC	AC	DC	AC	L x W x H	Description	Part No.	1	10	100	500	Part No.
1	SPST	125	125	.5	.5	.250 x .320 x .620 (6.35 x 8.13 x 15.75)	Vertical Mount PC Switch	SW100-ND	.76	.70	.61	.52	G-105-0513
2	SPDT	125	125	.5	.5	.505 x .305 x .515 (12.83 x 7.75 x 13.08)	Horizontal Mount PC Switch	SW101-ND*	1.23	1.13	.99	.84	G-107-0513
3	SPST	125	125	.5	.5	.705 x .385 x .395 (17.91 x 9.78 x 10.03)	Panel Mount Snap-In Switch	SW331-ND	1.64	1.48	1.11	.74	G-107-SI-0005
3	SPDT	125	125	.5	.5	.705 x .385 x .395 (17.91 x 9.78 x 10.03)	Panel Mount Snap-In Switch	SW332-ND	1.84	1.65	1.24	.83	G-107-SI-0511
4	DPDT	125	125	.5	.5	.762 x .312 x .558 (19.35 x 7.92 x 14.17)	Micro-Miniature Switch	SW102-ND*	.83	.77	.67	.57	GS-113-0512
5	SPDT	125	125	.5	.5	.750 x .220 x .458 (19.05 x 5.59 x 11.63)	Micro-Miniature Switch	SW103-ND*	.67	.62	.54	.46	GS-115-0511
6	SPDT	125	125	.5	6.0	1.360 x .550 x .966 (34.54 x 13.97 x 24.54)	Standard Size Switch Eyelet Terminal	SW104-ND*	.37	.35	.30	.26	GF-624-6014
6	SPDT	125	125	.5	6.0	1.360 x .550 x .966 (34.54 x 13.97 x 24.54)	Standard Size Switch (On-Mom)	SW338-ND	1.81	1.63	1.22	.82	G-1132-0003
7	DPDT	125	125	.5	11	1.360 x .550 x .747 (34.54 x 13.97 x 18.97)	Standard Size Switch PCB Mount	SW105-ND*	.71	.65	.57	.48	GF-1126-1110
7	DPDT	125	125	.5	11	1.360 x .550 x .747 (34.54 x 13.97 x 18.97)	Standard Size Switch Eyelet Terminal	SW333-ND	.94	.85	.64	.43	GF-1126-0033
8	4PDT	125	125	.5	6.0	1.360 x 1.000 x .767 (34.54 x 25.40 x 19.48)	Standard Size Switch PCB Mount	SW106-ND*	1.20	1.11	.96	.82	GF-642-6010
9	DP-3Pos	125	125	.5	3.0	1.656 x .550 x .757 (42.06 x 13.97 x 19.23)	Standard Size Switch PCB Mount	SW117-ND	.70	.65	.57	.48	G-328S-008
9	DP-3Pos	125	125	.5	11	1.656 x .550 x .757 (42.06 x 13.97 x 19.23)	Standard Size Switch PCB Mount	SW107-ND*	.86	.79	.69	.59	G-1128S-1110
9	DP-3Pos	125	125	.5	11	1.656 x .550 x .664 (42.06 x 13.97 x 16.87)	Standard Size Switch Eyelet Terminal	SW334-ND	1.15	1.03	.77	.52	G-1128S-0055
9	SP-3Pos	125	125	.5	11	1.656 x .550 x .664 (42.06 x 13.97 x 16.87)	Standard Size Switch (On-Off-Mom)	SW337-ND	1.48	1.33	1.00	.67	G-633S-0000
10	4P-3Pos	125	125	.5	6.0	1.656 x 1.000 x .767 (42.06 x 25.40 x 19.48)	Standard Size Switch PCB Mount	SW108-ND	1.55	1.43	1.24	1.06	G-660S-6010
11	DP-4Pos	125	125	.5	11	1.968 x .560 x .757 (49.99 x 14.22 x 19.23)	Standard Size Switch PCB Mount	SW109-ND	1.03	.95	.83	.70	G-1138S-1110
11	DP-4Pos	125	125	.5	11	1.968 x .560 x .757 (49.99 x 14.22 x 19.23)	Standard Size Switch Eyelet Terminal	SW335-ND	1.38	1.24	.93	.62	G-1138S-0048
12	DPDT	125	125	.5	3.0	1.360 x .550 x .610 (34.54 x 13.97 x 15.49)	Side Actuated Switch PCB Mount	SW110-ND	.50	.46	.40	.34	GG-350-3010
13	SPDT	125	125	.5	13	1.235 x .680 x 1.397 (31.37 x 17.27 x 35.48)	Pop-in Mount Slide Switch	SW111-ND	1.16	1.07	.93	.79	G-2012-1315
14	DPDT	125	125	.5	6.0	1.375 x .550 x 1.167 (34.93 x 13.97 x 29.64)	Rocker Switch PCB Mount	SW112-ND*	1.38	1.28	1.11	.95	GR5-626-6010
15	DPDT	125	125	.5	11	1.562 x .550 x 1.417 (39.67 x 13.97 x 35.99)	Rocker Switch PCB Mount	SW113-ND*	1.63	1.50	1.30	1.11	GR29-1126-1110
16	DPDT	125	125	.5	3.0	1.000 x .404 x .484 (25.40 x 10.26 x 12.29)	Miniature Side Actuated Switch PCB	SW114-ND*	.82	.76	.66	.56	GPI-152-3013
17	DP-3Pos	125	125	.5	3.0	1.170 x .404 x .484 (29.72 x 10.26 x 12.29)	Miniature Side Actuated Switch PCB	SW115-ND*	1.00	.92	.80	.68	GPI-154-3013
18	DPDT	125	125	.5	3.0	1.000 x .400 x .735 (25.40 x 10.16 x 18.67)	Miniature Slide Switch Eyelet Terminal	SW116-ND	.55	.51	.44	.38	GF-126-3011
18	DPDT	125	125	.5	3.0	.628 x .400 x .735 (15.95 x 10.16 x 18.67)	Miniature Slide Switch w/o Mnt. Ears, PC Mnt.	SW342-ND	1.44	1.29	.97	.65	GF-126-0159
18	DPDT	125	125	.5	3.0	1.000 x .400 x .735 (25.40 x 10.16 x 18.67)	Slide Switch, PC Mount	SW619-ND	1.15	1.03	.78	.52	GF-126-0147
19	SPDT	125	125	.5	.5	1.000 x .400 x .735 (25.40 x 10.16 x 18.67)	Spring Return Switch Eyelet Terminal	SW118-ND*	.74	.68	.59	.50	G-133-3011
20	DP-3Pos	125	125	.5	3.0	1.190 x .400 x .745 (30.23 x 10.16 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW119-ND*	.69	.64	.56	.47	G-128S-3011
21	DP-4Pos	125	125	.5	3.0	1.377 x .400 x .745 (34.98 x 10.16 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW120-ND	1.05	.97	.85	.72	G-141S-3011
22	3PDT	125	125	.5	3.0	1.000 x .567 x .745 (25.40 x 14.40 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW121-ND*	.94	.86	.75	.64	GF-161-3011
23	3P-3Pos	125	125	.5	3.0	1.190 x .567 x .745 (30.23 x 14.40 x 18.92)	Miniature Slide Switch Eyelet Terminal	SW122-ND	1.17	1.08	.94	.80	G-168S-3011
23	3P-3Pos	125	125	.5	3.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Standard Size Switch Eyelet Terminal	SW336-ND	1.42	1.28	.96	.64	G-368S-0000
23	3P-3Pos	125	125	.5	3.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Slide Switch, PC Mount	SW618-ND	1.44	1.30	.97	.65	G-368S-0001
23	3P-3Pos	125	125	.5	6.0	1.656 x .780 x .674 (42.06 x 19.81 x 17.12)	Slide Switch Eyelet Terminal	SW617-ND	1.71	1.54	1.15	.77	G-668S-0000
24	SPST	125	125	.5	11	1.360 x .550 x .654 (34.54 x 13.97 x 16.61)	Standard Size Switch Eyelet Terminal	SW148-ND	.73	.68	.59	.50	GF-1123-0009
25	SPST	—	125	—	16	1.360 x .550 x .654 (34.54 x 13.97 x 16.61)	Standard Size Switch .250" QC Terminal	SW616-ND	.70	.63	.47	.32	GF-1623-0001
26	Black Topper Button for SW105-ND, SW107-ND, SW110-ND, SW148-ND, SW333-ND, SW337-ND and SW334-ND							SW149-ND	.20	.19	.16	.14	G-02-072

E-SWITCH® Slide Switches

Fig. 1
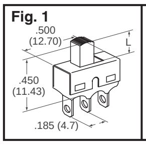

Fig. 2
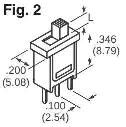

• With mounting ears

Fig.	Circuit	Rating	Dim. L Inch (mm)	Switch Function	Terminal	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
					500 Series					
1	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Solder Lug	EG2473-ND	3.59	3.24	2.76	500SSP1S1M1QEA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Solder Lug	EG2476-ND•	3.88	3.49	2.98	500SSP1S1M1QEB
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	P.C. Mount	EG2472-ND	3.88	3.49	2.98	500SSP1S1M2REA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Right Angle	EG2478-ND	4.21	3.80	3.23	500SSP1S1M6QEA
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	Right Angle	EG2477-ND	4.50	4.05	3.45	500SSP1S1M6REA
	SPDT	5A @ 28VDC	.152 (3.86)	On-On	Vert. Right Angle	EG2480-ND	4.43	3.99	3.40	500SSP1S1M7QEA
	SPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	Vert. Right Angle	EG2479-ND	4.71	4.24	3.62	500SSP1S1M7REA
	DPDT	5A @ 28VDC	.152 (3.86)	On-On	P.C. Mount	EG2475-ND	5.26	4.74	4.04	500SDP1S1M2QEA
	DPDT	0.4 VA @ 20VDC	.152 (3.86)	On-On	P.C. Mount	EG2474-ND	5.71	5.15	4.38	500SDP1S1M2REA
2	SPDT	3A @ 28VDC	.122 (3.10)	On-On	P.C. Mount	EG2481-ND	5.42	4.88	4.16	500ASSP1M2QE
	SPDT	0.4 VA @ 20VDC	.122 (3.10)	On-On	P.C. Mount	EG2482-ND	5.75	5.18	4.42	500ASSP1M2RE
	SPDT	3A @ 28VDC	.122 (3.10)	On-On	Right Angle	EG2483-ND	5.93	5.34	4.55	500ASSP1M6QE
	SPDT	0.4 VA @ 20VDC	.122 (3.10)	On-On	Right Angle	EG2484-ND	6.26	5.64	4.81	500ASSP1M6RE

ITT AYZ Series Slide Switches

Slide switch for surface mount. **Travel:** 1.5 (0.0591) **Switching**: Voltage Maximum: 12VDC, Current Maximum: 100mA **Contact Resistance:** 80mΩ **Contact Material:** Silver, Non-shorting **Operating Temperature:** -10°C ~ 60°C

Circuit	Description	Digi-Key Part No.	Price Each 1	25	100	Tape & Reel Pricing†	ITT Industries Part No.
SPDT	Horizontal Actuator, Gullwing-lead	401-1001-1-ND	1.12	1.04	.95	2476.80/4,000	AYZ0102AG
DPDT	Vertical Actuator, Gullwing-lead	401-1000-1-ND	1.64	1.52	1.39	2721.60/3,000	AYZ0202AG

† For Tape and Reel part number, change 1-ND to 2-ND.

SPDT
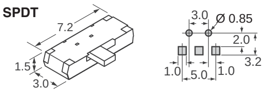

DPDT
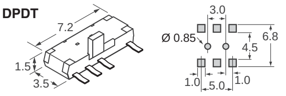

E-SWITCH® Slide Switches - EG Series

Specifications:
- **Initial Contact Resistance:** Less than 20mΩ
- **Withstand Voltage:** 500VAC for 1 minute between any terminal and frame
- **Operating Temp.:** -20°C ~ 70°C
- **Life:** 10,000 cycles minimum
- **Contact:** Silver plated copper alloy
- **Timing:** Non-shorting contacts

Dimensions: inches (mm)

Fig. 1

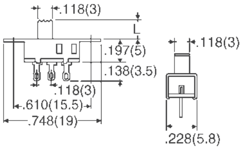

Fig. 2

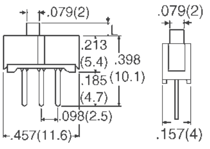

Fig. 3

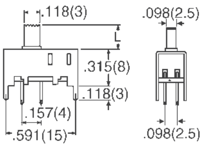

Fig. 4

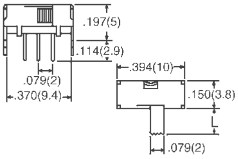

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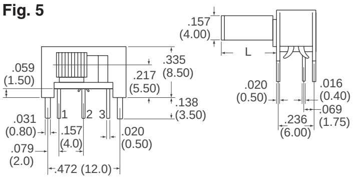

Fig. 6

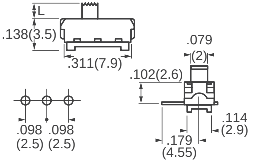

Fig. 7

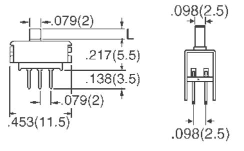

Fig. 8

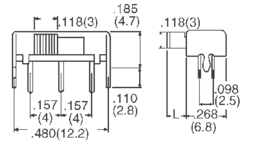

Fig. 9

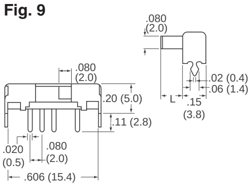

Fig. 10

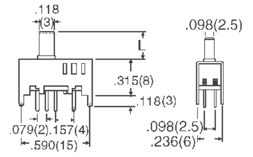

Fig. 11

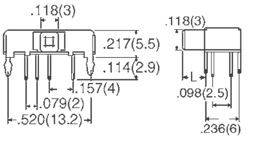

Fig. 12

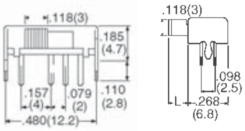

Fig. 13

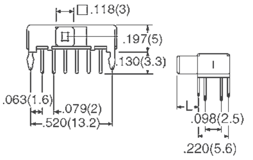

Fig. 14

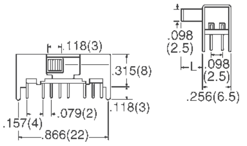

Fig. 15

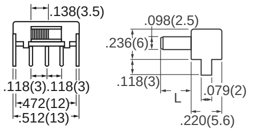

Fig. 16

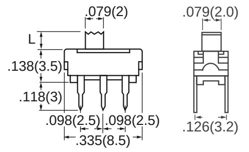

Fig. 17

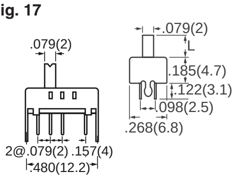

Fig. 18

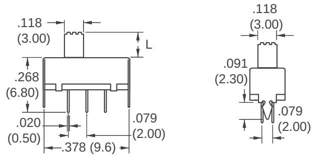

Fig. 19

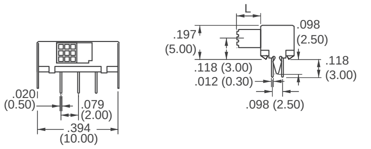

Fig. 20

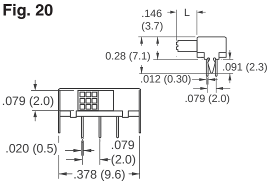

Fig. 21

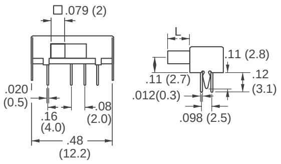

Fig. 22

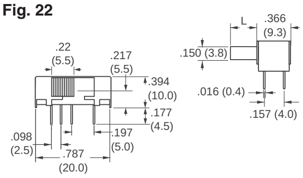

Fig. 23 – SMT

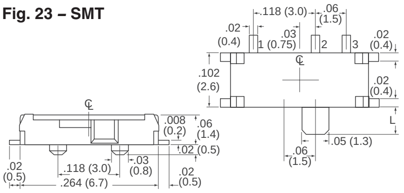

Fig.	Description	Rating	Circuit	"L" Dim. In. (mm)	Switching Function	Terminal	Digi-Key Part No.	Price Each 1	10	100	250	E-Switch Part No.
1	Straight	0.2A @ 30VDC	SPDT	.16 (4)	On-On	Solder Lugs	EG1901-ND	.71	.64	.55	.46	EG1201
1	Straight	0.2A @ 30VDC	SPDT	.22 (5.5)	On-On	Solder Lugs	EG1902-ND	.71	.64	.55	.46	EG1201A
2	Straight	0.2A @ 30VDC	SPDT	.08 (2)	On-On	PC Board	EG1903-ND	.71	.64	.55	.46	EG1218
3	Straight	0.2A @ 30VDC	DPDT	.12 (3)	On-On	PC Board	EG1904-ND	.98	.88	.75	.62	EG2201
3	Straight	0.2A @ 30VDC	DPDT	.24 (6)	On-On	PC Board	EG1905-ND	.98	.88	.75	.62	EG2201A
4	Right Angle	0.2A @ 30VDC	SPDT	.20 (5)	On-On	PC Board	EG1906-ND	.71	.64	.55	.46	EG1213
5	Right Angle	0.5A @ 15VDC	SPDT	.35 (9)	On-On	PC Board	EG2585-ND	.82	.74	.63	.52	EG1224
6	Right Angle	0.2A @ 30VDC	SPDT	.08 (2)	On-On	PC Board	EG1847-ND	1.11	.89	.81	.69	EG1270
7	Straight	0.1A @ 12VDC	DPDT	.08 (2)	On-On	PC Board	EG1907-ND	.98	.88	.75	.62	EG2209
7	Straight	0.1A @ 12VDC	DPDT	.16 (4)	On-On	PC Board	EG1908-ND	1.16	1.04	.89	.74	EG2209A
8	Right Angle	0.2A @ 30VDC	DPDT	.14 (3.5)	On-On	PC Board	EG1909-ND	.89	.80	.69	.57	EG2215
9	Right Angle	0.2A @ 30VDC	SP3T	.20 (5)	On-On-On	PC Mount	EG2485-ND	.82	.74	.63	.52	EG1313
10	Straight	0.2A @ 30VDC	DP3T	.12 (3)	On-On-On	PC Board	EG1910-ND	.89	.80	.69	.57	EG2301
10	Straight	0.2A @ 30VDC	DP3T	.24 (6)	On-On-On	PC Board	EG1944-ND	.90	.81	.69	.57	EG2301A
11	Right Angle	0.1A @ 12VDC	DP3T	.16 (4)	On-On-On	PC Board	EG1911-ND	.93	.84	.72	.60	EG2308
11	Right Angle	0.1A @ 12VDC	DP3T	.24 (6)	On-On-On	PC Board	EG1945-ND	.90	.81	.69	.57	EG2308A
12	Right Angle	0.2A @ 30VDC	DP3T	.14 (3.5)	On-On-On	PC Board	EG1913-ND	.98	.88	.75	.62	EG2315
13	Right Angle	0.2A @ 30VDC	4PDT	.24 (6)	On-On	PC Board	EG1949-ND	1.47	1.32	1.13	.93	EG4208A
13	Right Angle	0.2A @ 30VDC	4PDT	.16 (4)	On-On	PC Board	EG1914-ND	1.60	1.45	1.23	1.02	EG4208
14	Right Angle	0.2A @ 30VDC	4P3T	.20 (5)	On-On-On	PC Board	EG1915-ND	1.78	1.61	1.37	1.13	EG4319
15	Right Angle	0.2A @ 30VDC	SPDT	.12 (3)	On-On	PC Board	EG1916-ND	.71	.64	.55	.46	EG1206
15	Right Angle	0.2A @ 30VDC	SPDT	.24 (6)	On-On	PC Board	EG1917-ND	.71	.64	.55	.46	EG1206A
16	Straight	0.3A @ 30VDC	SPDT	.08 (2)	On-On	PC Board	EG1918-ND	.80	.72	.62	.51	EG1271
16	Straight	0.3A @ 30VDC	SPDT	.16 (4)	On-On	PC Board	EG1919-ND	.80	.72	.62	.51	EG1271A
17	Straight	0.2A @ 30VDC	DP3T	.16 (4)	On-On-On	PC Board	EG1920-ND	1.07	.96	.82	.68	EG2305
17	Straight	0.2A @ 30VDC	DP3T	.08 (2)	On-On-On	PC Board	EG1921-ND	1.07	.96	.82	.68	EG2305A
18	Straight	0.2A @ 30VDC	DPDT	.16 (4)	On-On	PC Board	EG1940-ND	.82	.74	.63	.52	EG2207
19	Right Angle	0.2A @ 30VDC	DPDT	.16 (4)	On-On	PC Board	EG1941-ND	.82	.74	.63	.52	EG2208
19	Right Angle	0.2A @ 30VDC	DPDT	.24 (6)	On-On	PC Board	EG1942-ND	.82	.74	.63	.52	EG2208A
20	Right Angle	0.2A @ 30VDC	DPDT	.16 (4)	On-On	PC Board	EG1943-ND	.82	.74	.63	.52	EG2211
20	Right Angle	0.2A @ 30VDC	DPDT	.08 (2)	On-On	PC Mount	EG2486-ND	.82	.74	.63	.52	EG2211A
21	Right Angle	0.2A @ 30VDC	DP3T	.24 (6)	On-On-On	PC Board	EG1946-ND	.76	.69	.59	.49	EG2310
21	Right Angle	0.2A @ 30VDC	DP3T	.16 (4)	On-On-On	PC Board	EG1947-ND	.86	.77	.66	.55	EG2310A
22	Right Angle	0.2A @ 30VDC	DP3T	.28 (7)	On-On-On	PC Board	EG1948-ND	.90	.81	.69	.57	EG2322
23	Right Angle	0.3A @ 4VDC	SPDT	.06 (1.5)	On-On	SMT Term.	EG2586CT-ND	1.43	1.15	1.03	.88	EG1257
23	Right Angle	0.3A @ 4VDC	SPDT	.06 (1.5)	On-On	SMT Term.	EG2586TR-ND	1760.22/3,300				EG1257

Slide Switches

1000 Series: **Specifications:** • Contact Rating: B, K and G contact material: 0.4VA maximum @ 20VAC or DC maximum Q contact material: 6A @ 120VAC or 28VDC, 3A @ 250VAC • Electrical Life: 100,000 make-and-break cycles at full load with contact material B or K; 40,000 cycles with G and Q contact material • Operating temperature: -30°C ~ 65°C **Materials:** • Case: diallyl phthalate (DAP), (UL94V-O) • Housing: Stainless steel • Contacts: B contact material: copper alloy with gold plate over nickel plate. Q contact material: Coin silver, silver plated • Terminal Seal: Epoxy

L Series: **Specifications:** • Contact Rating: LXOX, LX1X Models: Q contact material: 4A @ 125VAC or 28VDC; 2 Amps @ 250VAC; 0.5 Amp @ 125VDC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Q Contacts only: Copper, silver plated

S Series: **Specifications:** • Contact Rating: S6XX Models: Q contact material: 12A @ 125VAC; 6A @ 250VAC; 1A @ 125VDC (UL/CSA) S8XX models: 15A @ 125VAC; 6A @ 250VAC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Actuator: 6/6 nylon (UL94V-2), black • Q Contacts only: Copper, silver plated

TS Series: **Specifications:** • Contact Rating: B contact material: 0.4VA maximum @ 20V AC or DC maximum. Q contact material TS01: 3A @ 120VAC or 28VDC; TS03: 1A @ 120VAC or 28VDC • Electrical Life: TS01: 60,000 make-and-break cycles at full load; TS03: 30,000 make-and-break cycles at full load • Operating Temperature: -30°C ~ 85°C **Materials:** • Housing: 6/6 nylon (UL94V-0), black • B contact: Copper alloy, with gold plate over nickel plate. Q Contacts: Copper alloy, silver plated

GS Series: **Specifications:** • Contact Rating: B contact material: 0.4VA maximum @ 20VAC or DC maximum • Mechanical and Electrical Life: 40,000 make-and-brake cycles at full load • Storage and Operating Temperature: -30°C ~ 85°C **Materials:** • Housing and Base: Glass filled nylon 6/6, flame retardant, heat stabilized (UL 94V-O) • Movable Contact: Copper with gold plate over nickel plate • Terminal Seal: Epoxy. All terminals insert molded

LP Series: **Specifications:** • Contact Rating: LPOX, LP2X Models: Q contact material: 6A @ 125VAC or 28V DC; 3A @ 250VAC (UL/CSA) • Electrical Life: 10,000 make-and-break cycles at full load **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Contacts: Copper, silver plated

V Series: **Specifications:** • Contact Rating: Q contact material: 10.1A @ 125VAC; 4A @ 28VDC; 5A @ 250VAC (UL/CSA); 2.0 (0.5)A @ 250VAC, T85 (VDE) • Electrical Life: 10,000 make-and-break cycles at full load • Operating temperature: -30°C ~ 85°C **Materials:** • Housing: 6/6 nylon (UL94V-2), black • Actuator: Glass filled polyester; '01 and '02 styles: black (standard); '12, '13 and '14 styles: red (standard) • Contacts: Copper, silver plated • Terminal Seal: Epoxy

ES Series: **Specifications:** • Contact Rating: B contact material: 0.4VA maximum @ 20VAC or DC maximum • Mechanical and Electrical Life: 40,000 make-and-brake cycles at full load • Operating temperature: -30°C ~ 85°C **Materials:** • Housing and Base: Nylon (UL94V-O) • Terminals: Copper alloy with tin-lead alloy over nickel plate • Base and Terminal Seal: Epoxy

Fig. 1
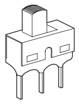

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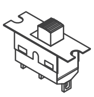

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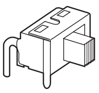

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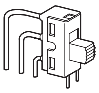

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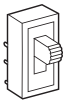

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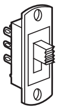

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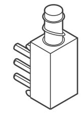

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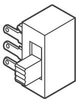

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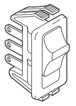
Snap-In

Fig. 10
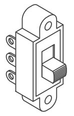

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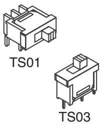

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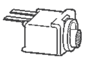

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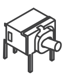

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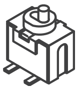

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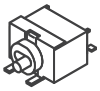

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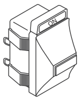
Snap-In

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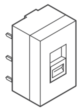

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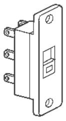

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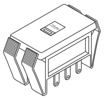

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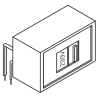

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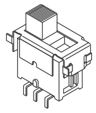

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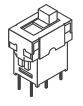

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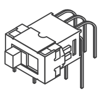

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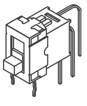

Termination Options

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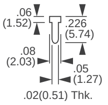

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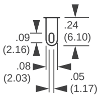

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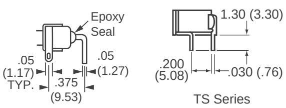

TS Series

AV2
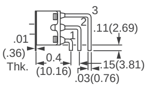

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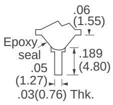

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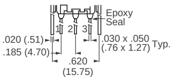

Z
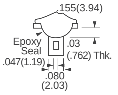

Actuator

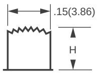

Fig.	Circuit	Options (see diagram)				Dimensions Inches (mm) L x W x D	Digi-Key Part No.	Price Each			ITT Industries Part No.
		Switching Function	Actuator H	Termi-nation	Contact Material			1	25	100	
1000 Series											
1	SPDT	On-On	0.2	C	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5000-ND	3.96	3.17	2.51	1101M2S3CBE2
	SPDT	On-On	0.2	C	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5001-ND	3.96	3.17	2.51	1101M2S3CQE2
	SPDT	On-On	0.2	V3	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5048-ND	4.53	3.63	2.87	1101M2S3V3BE2
	SPDT	On-Off-On	0.2	C	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5051-ND	4.65	3.72	2.95	1103M2S3CQE2
	DPDT	On-On	0.2	C	B	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5002-ND	7.71	6.17	4.89	1201M2S3CBE2
	DPDT	On-On	0.2	C	Q	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5003-ND	7.71	6.17	4.89	1201M2S3CQE2
	DPDT	On-On	0.04	C	Q	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5052-ND	7.71	6.17	4.89	1201M2S1CQE2
	DPDT	On-On	0.2	V3	B	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5056-ND	8.85	7.08	5.61	1201M2S3V3BE2
	DPDT	On-Off-On	0.2	V3	B	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5057-ND	8.85	7.08	5.61	1203M2S3V3BE2
2	SPDT	On-On	0.2	Z	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5004-ND	3.84	3.08	2.44	1101M1S3ZQE2
	SPDT	On-On	0.14	Z	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5058-ND	3.84	3.08	2.44	1101M1S2ZQE2
	SPDT	On-On	0.2	Z	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5059-ND	3.84	3.08	2.44	1101M1S3ZBE2
	SPDT	On-On	0.2	Z	G	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5060-ND	4.59	3.68	2.91	1101M1S3ZGE2
	DPDT	On-On	0.2	Z	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5061-ND	7.47	5.98	4.74	1201M1S3ZQE2
3	SPDT	On-On	0.2	A	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5005-ND	4.53	3.63	2.87	1101M2S3ABE2
	SPDT	On-On	0.2	A	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5006-ND	4.53	3.63	2.87	1101M2S3AQE2
	SPDT	On-On	0.285	A	K	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5049-ND	4.86	3.89	3.08	1101M2S4AKE2
	SPDT	On-On	0.285	A	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5050-ND	4.53	3.63	2.87	1101M2S4AQE2
	DPDT	On-On	0.2	A	B	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5053-ND	8.85	7.08	5.61	1201M2S3ABE2
	DPDT	On-On	0.2	A	Q	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5054-ND	8.85	7.08	5.61	1201M2S3AQE2
4	SPDT	On-On	0.2	AV2	B	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5007-ND	4.53	3.63	2.87	1101M2S3AV2BE2
	SPDT	On-On	0.2	AV2	Q	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5008-ND	4.53	3.63	2.87	1101M2S3AV2QE2
	SPDT	On-On	0.2	AV2	G	.5 x .26 x .25 (12.70 x 6.60 x 6.35)	CKN5047-ND	5.28	4.23	3.35	1101M2S3AV2GE2
	DPDT	On-On	0.2	AV2	B	.5 x .45 x .30 (12.70 x 11.43 x 7.62)	CKN5055-ND	8.85	7.08	5.61	1201M2S3AV2BE2
L/S Series											
5	SPST	On-Off	0.2	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5106-ND	1.78	1.43	1.13	L101011MS02Q
	SPDT	On-On	0.2	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5107-ND	1.87	1.50	1.19	L102011MS02Q
	SPDT	On-On	0.335	02	Q	.905 x .53 x .28 (22.99 x 13.46 x 7.11)	CKC5113-ND	2.20	1.77	1.40	S102031MS02Q
	DPDT	On-On	0.2	02	Q	.76 x .43 x .36 (19.30 x 10.92 x 9.14)	CKC5100-ND	2.20	1.90	1.60	L202011MSO2Q
	DPDT	On-On	0.2	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5108-ND	4.01	3.21	2.54	L202011MS02QE
	DPDT	On-On	0.375	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5109-ND	3.18	2.55	2.02	L202031MS02Q
	DPDT	On-On	Slot	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5110-ND	4.28	3.43	2.72	L202121MS02QE
	DPDT	On-On	0.335	02	Q	.905 x .53 x .28 (22.99 x 13.46 x 7.11)	CKC5114-ND	2.97	2.38	1.88	S202031MS02Q
	DPDT	On-On	Slot	02	Q	.905 x .53 x .28 (22.99 x 13.46 x 7.11)	CKC5115-ND	3.37	2.70	2.14	S202121MS02Q
	DPDT	On-On	Slot	02	Q	.905 x .53 x .28 (22.99 x 13.46 x 7.11)	CKC5116-ND	3.24	2.60	2.06	S202131MS02Q
	DP3T	On-On-On	0.2	02	Q	.941 x .43 x .36 (23.9 x 10.92 x 9.14)	CKC5111-ND	3.18	2.55	2.02	L203011MS02Q
6	SPDT	On-On	0.335	03	Q	1.38 x .53 x .28 (34.93 x 13.46 x 7.11)	CKC5118-ND	2.20	1.77	1.40	S102031SS03Q
	DPST	On-Off	0.2	03	Q	.76 x .43 x .36 (19.30 x 10.92 x 9.14)	CKC5101-ND	2.06	1.79	1.51	L201011SSO3Q
	DPDT	On-On	0.335	03	Q	1.38 x .53 x .28 (34.93 x 13.46 x 7.11)	CKC5013-ND	3.03	2.43	1.92	S602031SS03Q
	DPDT	On-On	0.335	03	Q	1.38 x .53 x .28 (34.93 x 13.46 x 7.11)	CKC5119-ND	2.97	2.38	1.88	S202031SS03Q
7	DPDT	Off-Mom	—	02	Q	.76 x .42 x .33 (19.30 x 10.67 x 8.38)	CKC5104-ND	5.08	4.07	3.22	L212132MV02Q
8	SPDT	On-On	0.335	02	Q	.76 x .42 x .33 (19.30 x 10.67 x 8.38)	CKC5102-ND	1.87	1.50	1.19	L102021ML04Q
	DPDT	On-On	Slot	—	Q	.80 x .55 x .412 (20.32 x 13.97 x 10.46)	CKC5112-ND	4.01	3.21	2.54	L202121MA04Q
	DPDT	On-On	0.335	02	Q	.76 x .42 x .33 (19.30 x 10.67 x 8.38)	CKC5103-ND	3.73	2.99	2.37	L202021MA04Q
Tiny Slide — TS Series											
9	DPDT	On-On	Black	03	Q	1.24 x .68 x .68 (31.50 x 17.27 x 17.27)	CKC5105-ND	3.21	2.58	2.04	S802C21S207Q
10	DPDT	On-On	0.335	03	Q	1.42 x .53 x .64 (36.07 x 13.46 x 16.36)	CKC5014-ND	3.37	2.70	2.14	S602031TS03Q
11	SPDT	On-On	0.122	A	B	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5120-ND	4.96	3.97	3.14	TS01ABE

* Cut Tape † Tape and Reel

(Continued)

Slide Switches *(Cont.)*

Fig.	Circuit	Options (see diagram)				Dimensions Inches (mm) L x W x D	Digi-Key Part No.	Price Each			ITT Industries Part No.
		Switching Function	Actuator H	Termi-nation	Contact Material			1	25	100	
11	SPDT	On-On	0.122	A	Q	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5121-ND	4.96	3.97	3.14	TS01AQE
	SPDT	On-On	0.122	C	B	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5122-ND	4.56	3.65	2.89	TS01CBE
	SPDT	On-On	0.122	C	Q	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5123-ND	4.56	3.65	2.89	TS01CQE
	SPDT	On-Off-On	0.122	A	B	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5124-ND	5.48	4.39	3.47	TS03ABE
	SPDT	On-Off-On	0.122	C	B	.40 x .20 x .346 (10.16 x 5.08 x 8.79)	CKC5125-ND	5.08	4.07	3.22	TS03CBE
Ultra Miniature — GS Series											
12	SPST	Off-On	—	C	B	.28 x .16 x .28 (7.01 x 4.06 x 7.06)	CKN5010-ND	6.74	5.40	4.27	GS02MCKE
	SPDT	On-On	—	C	B	.28 x .16 x .28 (7.01 x 4.06 x 7.06)	CKN5009-ND	6.16	4.93	3.91	GS01MCKE
13	SPDT	On-On	—	A	B	.28 x .212 x .28(7.11 x 5.38 x 7.11)	CKN5062-ND	6.93	5.55	4.40	GS01MAKE
	SPST	Off-On	—	A	B	.28 x .212 x .28(7.11 x 5.38 x 7.11)	CKN5063-ND	7.35	5.88	4.66	GS02MAKE
14	SPST	On-Off	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9024CT-ND*	9.62	8.29	6.66	GS02MSV1KE(T&R)
15	SPDT	On-On	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9025CT-ND*	6.45	5.56	4.47	GS01MSAKE(T&R)
	SPDT	On-On	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9025TR-ND†		2143.80/600		GS01MSAKE(T&R)
	SPST	On-Off	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9026CT-ND*	6.97	6.01	4.83	GS02MSAKE(T&R)
	SPST	On-Off	—	SMT	B	.340 x .276 x .215 (8.64 x 7.01 x 5.46)	CKN9026TR-ND†		2316.60/600		GS02MSAKE(T&R)
Snap In — LP Series											
16	SPDT	On-On	Black	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5015-ND	3.27	2.62	2.08	LP02C21T203DQ
	DPDT	On-On	Black	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5016-ND	4.27	3.42	2.71	LP22C21T203DQ
	SPDT	On-On	Red	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5017-ND	3.45	2.77	2.19	LP02C31T203DQ
	DPDT	On-On	Red	03	Q	.84 x .62 x .70 (21.34 x 15.75 x 17.68)	CKC5018-ND	4.46	3.57	2.83	LP22C31T203DQ
V Series — 115V/230V Voltage Select											
17	DPDT	On-On	—	C	Q	1.03 x .65 x .62 (26.16 x 16.51 x 12.57)	CKC3001-ND	4.58	3.66	2.90	V80212MS02Q
	DPDT	On-On	—	02	Q	1.03 x .65 x .62 (26.16 x 16.51 x 12.57)	CKC3006-ND	5.70	4.56	3.61	V80212MS02QE
	DPDT	On-On	—	02	Q	1.03 x .65 x .62 (26.16 x 16.51 x 12.57)	CKC3007-ND	4.21	3.37	2.67	V80213MS02Q
	DPDT	On-On	—	02	Q	1.03 x .65 x .62 (26.16 x 16.51 x 12.57)	CKC3008-ND	4.58	3.66	2.90	V80214MS02Q
18	SPST	On-Off	—	03	Q	1.61 x .65 x .62 (41.00 x 16.51 x 12.57)	CKC3009-ND	2.85	2.28	1.81	V70113SS05Q
	DPDT	On-On	—	03	Q	1.61 x .65 x .62 (41.00 x 16.51 x 12.57)	CKC3002-ND	4.58	3.66	2.90	V80212SS05Q
	DPDT	On-On	0.29	03	Q	1.61 x .65 x .62 (41.00 x 16.51 x 12.57)	CKC3010-ND	4.21	3.37	2.67	V80201SS05Q
	DPDT	On-On	—	03	Q	1.61 x .65 x .62 (41.00 x 16.51 x 12.57)	CKC3011-ND	4.21	3.37	2.67	V80213SS05Q
19	DPDT	On-On	—	03	Q	1.3 x .75 x .54 (33.02 x 19.05 x 13.72)	CKC3005-ND	5.00	4.01	3.17	V80212S205Q
20	DPDT	On-On	—	02	Q	1.03 x .65 x .62 (26.16 x 16.51 x 16.00)	CKC3012-ND	5.24	4.20	3.32	V80213MA08Q
	DPDT	On-On	—	C	Q	1.03 x .65 x .62 (26.16 x 16.51 x 16.00)	CKC3004-ND	4.11	3.56	3.00	V80212MA08Q
ES Series — Fully Sealed Miniature Slide Switches											
21	SPST	On-Off	0.12	SMT	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1813CT-ND*	7.23	6.24	5.01	ES02MSABE
	SPST	On-Off	0.12	SMT	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1813TR-ND†		1202.10/300		ES02MSABE
22	SPDT	On-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1778-ND	5.80	4.65	3.68	ES01MCBE
	SPST	On-Off	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1812-ND	6.40	5.12	4.06	ES02MCBE
	SPDT	On-Off-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN2085-ND	5.99	4.80	3.80	ES03MCBE
	DPDT	On-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN2082-ND	7.61	6.10	4.83	ES21MCBE
	DPST	On-Off	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1815-ND	8.36	6.69	5.30	ES22MCBE
	DPDT	On-Off-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1830-ND	7.83	6.27	4.96	ES23MCBE
23	DPDT	On-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN2080-ND	8.30	6.64	5.26	ES21MABE
	DPST	On-Off	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1814-ND	8.99	7.19	5.70	ES22MABE
	DPDT	On-Off-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1269-ND	8.13	6.51	5.15	ES23MAKE
	DPDT	On-Off-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1816-ND	8.45	6.77	5.36	ES23MABE
24	SPDT	On-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN1777-ND	6.74	5.40	4.27	ES01MAVBE
	SPDT	On-Off-On	0.12	C	B	.39 x .24 x .36 (10 x 6 x 9.14)	CKN2084-ND	6.93	5.55	4.39	ES03MAVBE

* Cut Tape † Tape and Reel

Thumbwheel Switches

Features:
- Most complete product offering in the industry
- Spacers available to fit most panel cutouts
- Front or rear mounting options

Note: End caps sold separately.

Fig. 1 — Series 3

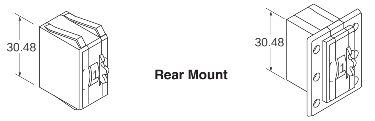

Front Mount **Rear Mount**

Fig. 2 — Series 3U

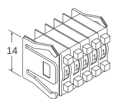

Fig. 3 — Series 3P

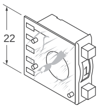

Fig.	Description	No. of Pos.	Color	Termination	Digi-Key Part No.	Price Each 1	25	100	ITT Industries Part No.
1	Decimal Output, Front Mount	0-9	Black Gloss	Short PC Board	CKN5013-ND	8.59	7.42	6.25	301109000
	BCD Output, Front Mount	0-9	Black Gloss	Short PC Board	CKN5014-ND	8.59	7.42	6.25	302109000
	BCD Output, Front Mount	0-9	Black Gloss	Extended PC Board	CKN5035-ND	10.79	9.32	7.85	302109100
	BCD Output, Front Mount	0-9	Black Gloss	PC Pins	CKN5036-ND	15.11	13.06	11.00	302109300
	BCD Output, Front Mount	0-9	Black Gloss	PC Pins	CKN1865-ND† ***NEW!***	15.11	13.06	11.00	302109N00
	BCD Complement, Front Mount	0-9	Black Gloss	Short PC Board	CKN5037-ND	8.59	7.42	6.25	302309000
	BCH Output, Front Mount	0-F	Black Gloss	Short PC Board	CKN5038-ND	17.24	14.90	12.55	307109000
	Decimal Output, Rear Mount	0-9	Black Gloss	Short PC Board	CKN1186-ND	8.59	7.42	6.25	301119000
	BCD Output, Rear Mount	0-9	Black Gloss	Short PC Board	CKN1187-ND	8.59	7.42	6.25	302119000
	BCD Output, Rear Mount	0-9	Black Gloss	Extended PC Board	CKN5039-ND	10.79	9.32	7.85	302119100
	BCD Output, Rear Mount	0-9	Black Gloss	PC Pins	CKN5040-ND	12.96	11.20	9.43	302119300
	BCD Output, Rear Mount	0-9	Black Gloss	PC Pins	CKN1866-ND† ***NEW!***	12.96	11.20	9.43	302119N00
	BCD Complement, Rear Mount	0-9	Black Gloss	Short PC Board	CKN5041-ND	8.59	7.42	6.25	302319000
	BCH Output, Rear Mount	0-F	Black Gloss	Short PC Board	CKN5042-ND	17.24	14.90	12.55	307119000
—	Female Header for Series 3 with PC Board Termination				CKN1752-ND	23.41	16.50	14.90	605A00000
	Front Mounted End Cap for Series 3 (2 required)				CKN5015-ND	1.94	1.55	1.23	413402000
	Front Mounted Spacer for Series 3 (optional)				CKN5016-ND	2.34	1.88	1.49	413502000
	Rear Mounted End Cap for Series 3 (2 required)				CKN5017-ND	.81	.65	.52	400402003
	Rear Mounted Spacer for Series 3 (optional)				CKN5018-ND	1.75	1.40	1.11	400802000
—	Rod Assembly for 1 Module (Series 3)				CKN5019-ND	2.70	2.16	1.71	412707000
	Rod Assembly for 2-4 Modules (Series 3)				CKN5020-ND	2.81	2.25	1.78	412701000
	Rod Assembly for 5-7 Modules (Series 3)				CKN5021-ND	2.81	2.25	1.78	412702000
	Rod Assembly for 8-10 Modules (Series 3)				CKN5022-ND	2.70	2.16	1.71	412703000
—	Fastener Nut for Rod Assemblies (Series 3)				CKN5023-ND	.28	.23	.18	403500000
	Nut Driver hand tool for CKN5023-ND Fasteners				CKN5024-ND*	7.32	6.33	5.33	406100652
2	BCD Output without Dust Lens, Front Mount	0-9	Black Matte	Short PC Board	CKN5025-ND	7.43	6.42	5.41	3U0210000
	BCD Output with Dust Lens, Front Mount	0-9	Black Matte	Short PC Board	CKN5026-ND	7.77	6.72	5.66	3U0210002
—	Left End Cap for 3U Series				CKN5027-ND	.44	.36	.28	113B02000
	Right End Cap for 3U Series				CKN5028-ND	.44	.36	.28	114B02000
3	BCD type with Straight Board, Front Mount	0-9	Black Matte	Short PC Board	CKN5029-ND	7.84	6.78	5.71	3P0210000
	BCD Output with Dust Lens, Front Mount	0-9	Black Matte	Short PC Board	CKN5044-ND	8.18	7.07	5.95	3P0210002
	BCD Output with Dust Lens, Front Mount	0-9	Black Matte	Extended PC Board	CKN5045-ND	8.82	7.62	6.42	3P0210102
	BCD Output with Dust Lens, Front Mount	0-9	Black Matte	Extended with Solder Pins	CKN5046-ND	9.88	8.54	7.19	3P0210A02
	BCD Output with Dust Lens, Front Mount	0-9	Black Matte	Extended with Solder Pins	CKN1867-ND† ***NEW!***	9.88	8.54	7.19	3P0210P02
—	Left End Cap for 3P Series				CKN5031-ND	.56	.45	.36	623502000
	Right End Cap for 3P Series				CKN5032-ND	.56	.45	.36	623602000

* Xcelite hand tool † ***RoHS Compliant***

Key Switch — Switchlocks

Termination Options

A

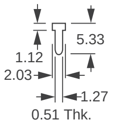

B

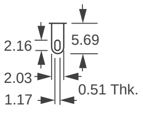

C

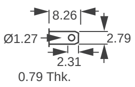

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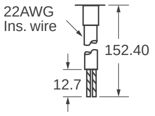

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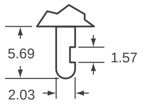

Fig.	No. Poles	Keypull Possible	Switch Type	Amp Rtg. @ 125 VAC	Term-ination	Connected Terminals (Pos.) 1	2	3	4	Digi-Key Part No.	Price Each 1	10	100	ITT Industries Part No.
1	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8000-ND	9.07	7.83	6.60	Y1011U2C203NQ
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8001-ND	10.62	9.17	7.72	Y2011U2C203NQ
	DP	1,2	On-On	4	A	8-1, 4-5	1-3, 5-7	—	—	CKC8003-ND	10.62	9.17	7.72	Y2011U2C202NQ
	SP	1,2,3	On-Off-On	4	D	7-1	1-3	6-7	—	CKC8026-ND	11.78	10.18	8.57	Y1417U2C2WCNQE
	SP	1 only	On-Mom	4	A	8-1	1-2	—	—	CKC1230-ND	11.67	10.08	8.49	Y108122A203NQ
	DP	1 only	On-Mom	4	B	8-1, 4-5	1-2, 5-6	—	—	CKC1231-ND	12.34	10.66	8.98	Y208122A203NQ
	SP	1,2,3	On-On-On	4	B	8-1	1-2	7-8	—	CKC8036-ND	9.67	8.36	7.04	Y100AA2C203NQ
	SP	1,2,3,4	On-On-On-On	4	B	8-1	1-2	2-3	3-4	CKC8037-ND	10.84	9.37	7.89	Y100AB2C203NQ
	SP	1 only	On-On	4	E	8-1	1-3	—	—	CKC8038-ND	9.07	7.83	6.60	Y101132C201NQ
	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8039-ND	9.07	7.83	6.60	Y101132C203NQ
	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8041-ND	13.69	11.83	9.96	Y101132W203NQ
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8042-ND	10.17	8.78	7.40	Y1011U2R203NQ
	DP	1 only	On-On-On	4	B	8-1,4-5	1-2,5-6	7-8,3-4	—	CKC8043-ND	11.20	9.68	8.15	Y200822C203NQ
	DP	1,2,3	On-On-On	4	B	8-1,4-5	1-2,5-6	7-8,3-4	—	CKC8044-ND	11.20	9.68	8.15	Y200AA2C203NQ
	DP	1 only	On-On	4	E	8-1,4-5	1-3, 5-7	—	—	CKC8045-ND	10.62	9.17	7.72	Y201132C201NQ
	DP	1 only	On-On	4	B	8-1,4-5	1-3, 5-7	—	—	CKC8046-ND	10.62	9.17	7.72	Y201132C203NQ
2	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8040-ND	12.59	10.88	9.16	Y101132V203NQ
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8047-ND	14.21	12.27	10.34	Y201132V203NQ
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8006-ND	12.59	10.88	9.16	Y1011U2V203NQ
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8007-ND	14.21	12.27	10.34	Y2011U2V203NQ
3	SP	1,2	On-On	12	C	7-8	8-2	—	—	CKC8004-ND	12.34	10.66	8.98	H1011U2F205NQ
	DP	1,2	On-On	12	C	7-8, 3-4	8-2, 4-6	—	—	CKC8005-ND	10.17	8.78	7.40	H2011U2F205NQ
Replacement Key for Y Series 4 Tumbler A126 Code..										CKC8028-ND	1.72	1.49	1.25	115140126
Series 6 Tumbler AAAA Code..										CKC8027-ND	3.18	2.75	2.32	1110801
4	SP	1 & 2	On-Off	4	B	—	1-2	—	—	CKC8008-ND	10.23	8.84	7.45	YM061U2C205NQ
	SP	1 & 2	On-Off	4	D	—	1-2	—	—	CKC8009-ND	11.49	9.93	8.36	YM061U2C2WCNQ
	SP	1 only	On-Off	4	B	—	1-2	—	—	CKC8010-ND	10.23	8.84	7.45	YM06132C205NQ
	SP	1 only	On-Off	4	D	—	1-2	—	—	CKC8011-ND	11.49	9.93	8.36	YM06132C2WCNQ
5	SP	1 only	On-On	4	B	8-1,	1-3	—	—	CKC8012-ND	11.53	9.97	8.39	P10113TCM03Q22
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8013-ND	13.28	11.48	9.67	P20113TCM03Q22
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8014-ND	11.53	9.97	8.39	P1011UTCM03Q22
6	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8016-ND	4.67	4.04	3.40	P1011U2WM03NQ2
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8017-ND	5.16	4.46	3.76	P2011U2WM03NQ2
	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8018-ND	4.56	3.94	3.32	P101132WM03NQ2
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8019-ND	5.27	4.56	3.84	P201132WM03NQ2
	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC8033-ND	4.31	3.72	3.14	P101133WM03NQ2
	DP	1&2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8034-ND	5.03	4.35	3.66	P2011U33WM03NQ2
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC8035-ND	4.91	4.25	3.58	P2011U3WM03NQ2
Replacement Key for P Series Snap-In Version										CKC8029-ND	2.86	2.47	2.08	11599112602
7	SP	1 only	On-On	4	B	8-1	1-3	—	—	CKC1234-ND	9.65	8.34	7.02	YF01132C203NQ
	DP	1 only	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC1235-ND	10.62	9.17	7.72	YF21132C203NQ
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC1236-ND	9.65	8.34	7.02	YF011U2C203NQ
	DP	1,2	On-On	4	B	8-1, 4-5	1-3, 5-7	—	—	CKC1237-ND	10.62	9.17	7.72	YF211U2C203NQ
8	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8023-ND	11.11	9.60	8.08	BY011UJC03NQ22
	SP	1,2	On-On	4	B	8-1	1-3	—	—	CKC8024-ND*	12.01	10.37	8.74	BY011UJC03LQ22
	SP	1,2,3	On-On-On	4	B	8-1	1-2	7-8	—	CKC8025-ND*	12.01	10.37	8.74	BY01AFJC03LQ22
9	SP	1 only	Off-On	4	B	1-2	—	—	—	CKC8021-ND	13.13	11.34	9.55	PM0613EBM05KQ22
	SP	1,2	On-Off	4	B	1-2	—	—	—	CKC8022-ND	13.13	11.34	9.55	PM061UEBM05KQ22
10	DP	1 only	On-On-On	4	C	8-1, 4-5	1-2, 5-6	2-3, 6-7	—	CKC8030-ND	12.97	11.21	9.44	W200132C205AQ
	DP	1 only	On-On	4	C	8-1, 4-5	2-3, 6-7	—	—	CKC8031-ND	12.97	11.21	9.44	W201132C205AQ
5 Tumbler Miniature Camlocks														
11	Miniature Camlock with 90 Index.									CKC8048-ND	5.57	4.81	4.05	PL001UEBMA1K22

* With Latch Pawl

Note: All switches come with hardware and 2 keys

Fig. 1 Y Series, 4 Tumbler

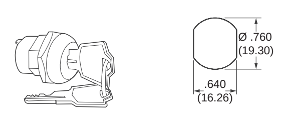

Fig. 2 Y Series, 6 Tumbler

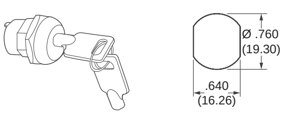

Fig. 3 H Series

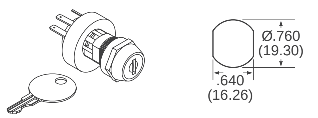

Fig. 4 YM Series

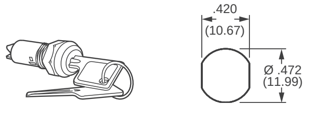

Fig. 5 P Series

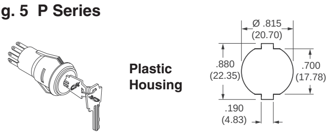

Fig. 6 P Series, Low Profile

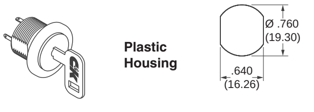

Fig. 7 YF Series

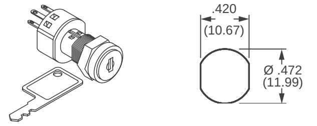

Fig. 8 BY Series

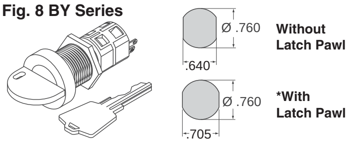

Fig. 9 PM Series

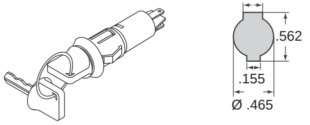

Fig. 10 W Series

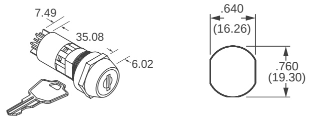

Fig. 11 PL Series, 5 Tumbler

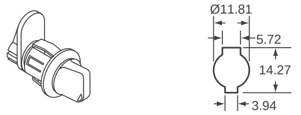

E-SWITCH

Keylock Switches KO Series

Materials: • Housing and Cylinder: Die cast zinc alloy • Mounting nut and two keys

Rubber Cover

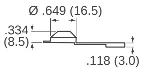

Metal Dust Cap

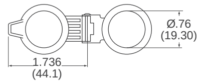

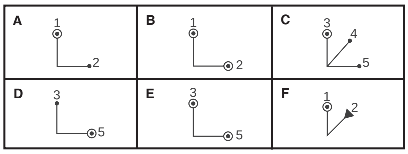

● = Detent Position ⦿ = Keypull Possible ▲ = Momentary

Series	Ratings	Insulation Resistance
KO103	1A @ 125VAC; 0.5A @ 250VAC	200MΩ min.
KO106	1A @ 125VAC; 0.5A @ 250VAC	200MΩ min.
KO130	4A @ 125VAC; 2A @ 250VAC	200MΩ min.

Fig. 1

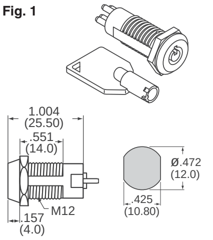

Fig. 2

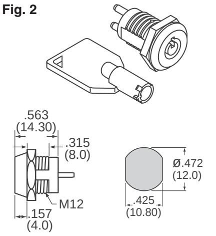

Fig. 3

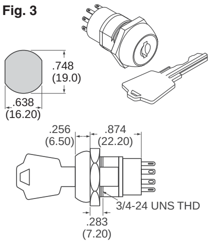

Fig. 4

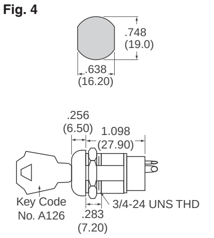

Fig.	Lock Configuration	No. Poles	Key Pull Possible	Switch Type	Amp Rtg. @ 125 VAC	Termination	Digi-Key Part No.	Price Each 1	10	100	E-Switch Part No.
1A	90° Indexing	SPDT	1	On-On	1	Solder	EG2623-ND	6.46	5.82	4.66	KO103C
1B	90° Indexing	SPDT	1 and 2	On-On	1	Solder	EG2624-ND	6.46	5.82	4.66	KO103D
2B	90° Indexing	SPST	1 and 2	Off-On	1	Solder	EG2625-ND	3.13	2.82	2.26	KO106A
3C	45°-45° Indexing	SP-3 pos.	3	On-On-On	4	Eyelet	EG2626-ND	12.64	11.38	9.11	KO130A
3C	45°-45° Indexing	DP-3 pos.	3	On-On-On	4	Eyelet	EG2627-ND	12.64	11.38	9.11	KO130B
3D	90° Indexing	DPDT	5	On-On	4	Eyelet	EG2628-ND	12.64	11.38	9.11	KO130Q
3E	90° Indexing	SPDT	3 and 5	On-On	4	Eyelet	EG2629-ND	12.64	11.38	9.11	KO130R
4F	45° Indexing	SPDT	1	On-Mom	4	Eyelet	EG2630-ND	12.64	11.38	9.11	KO130W
Covers											
Rubber Cover for KO103 Series							EG2631-ND	.68	.62	.49	KOC1
Metal Dust Cap for KO130 Series							EG2632-ND	3.13	2.82	2.26	KOM4

NKK® SWITCHES

Keylock Switches

Dim. in (mm) Inch

Fig.	Key Positions Pos. 1	Pos. 2	Pos. 3	Key Removable Positions	Digi-Key Part No.	Price Each 1	25	100	NKK Part No.
12mm Miniature Low Security									
1	On	None	On	1, 3	360-1459-ND	16.95	13.56	10.74	SK12AAW01
	On	None	On	1	360-1460-ND	16.95	13.56	10.74	SK12BAW01
	On	Off	On	1, 2, 3	360-1461-ND	17.85	14.28	11.31	SK13DAW01
	On	Off	On	2	360-1462-ND	17.85	14.28	11.31	SK13EAW01
Replacement Key for SK12..AW01 Switches, Chrome/Zinc Alloy					360-1010-ND	2.40	1.92	1.52	AT4081
16mm High Security Antistatic - Flat Key Version									
2	On	None	On	1, 3	360-1447-ND	16.68	13.35	10.57	CKM12AFW01
	On	None	On	1	360-1448-ND	16.68	13.35	10.57	CKM12BFW01
	On	Off	On	2	360-1449-ND	18.42	14.74	11.67	CKM13EFW01
16mm High Security Antistatic - Tubular Key Version									
2	On	None	On	1, 3	360-1450-ND	16.68	13.35	10.57	CKM12ATW01
	On	None	On	1	360-1451-ND	16.68	13.35	10.57	CKM12BTW01
	On	Off	On	2	360-1452-ND	18.42	14.74	11.67	CKM13ETW01
19mm High Security - Flat Key Version									
3	On	None	On	1, 3	360-1453-ND	16.89	13.52	10.70	CKL12AFW01
	On	None	On	1	360-1454-ND	16.89	13.52	10.70	CKL12BFW01
	On	Off	On	2	360-1455-ND	18.63	14.91	11.80	CKL13EFW01
19mm High Security - Tubular Key Version									
3	On	None	On	1, 3	360-1456-ND	16.89	13.52	10.70	CKL12ATW01
	On	None	On	1	360-1457-ND	16.89	13.52	10.70	CKL12BTW01
	On	Off	On	2	360-1458-ND	18.63	14.91	11.80	CKL13ETW01

Fig. 1

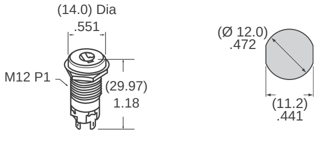

- Low Security • 2 Keys Supplied (All Same Keycode)

Fig. 2

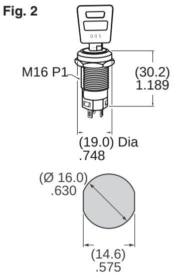

- 1 Key Supplied
- 25 different Keycodes sent randomly

Fig. 3

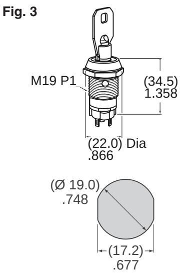

- 1 Key Supplied
- 50 different Keycodes sent randomly

tyco Electronics Alcoswitch

Keylock Switchlocks

Note: All Keylocks are supplied with 2 brass keys on a ring.

Fig. 1

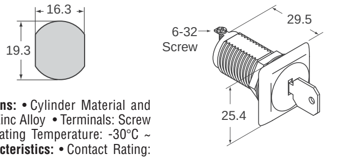

Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temperature: -30°C ~ 85°C **Characteristics:** • Contact Rating: 1A @ 120VAC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 10,000 Cycles

Fig. 2

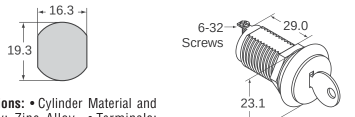

Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temperature: -30°C ~ 85°C **Characteristics:** • Contact Rating: 1A @ 120VAC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 10,000 Cycles

Fig. 3

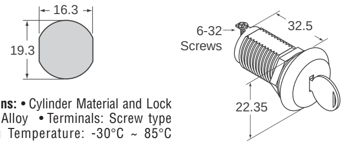

Specifications: • Cylinder Material and Lock Body: Zinc Alloy • Terminals: Screw type • Operating Temperature: -30°C ~ 85°C **Characteristics:** • Contact Rating: 5A @ 115VAC, 15A @ 24VDC • Contact Timing: Non-shorting • Actuator Travel: 90° • Life Expectancy: 20,000 Cycles

Fig.	Lock Configuration	Poles	Keypull Possible	Switch Type	Current	Terminal	Digi-Key Part No.	Price Each 1	10	25	50	Alcoswitch Part No.
1	90° Indexing	SPST	1, 2	On-Off	1A	6-32 Screw	450-1003-ND	19.27	17.62	16.52	15.97	2SKF132AEL01
			1 only	On-Off			450-1005-ND	19.93	18.23	17.09	16.52	2SKF131AEL01
			1 only	Off-Mom			450-1008-ND	31.52	28.82	27.02	26.12	2SKF231AEL01
2	90° Indexing	SPST	1, 2	On-Off	1A	6-32 Screw	450-1004-ND	24.61	22.50	21.09	20.39	2SWK132AL101
			1 only	On-Off			450-1006-ND	29.19	26.69	25.02	24.19	2SWK131AL101
			1 only	Off-Mom			450-1007-ND	18.20	16.64	15.60	15.08	2SWK231AL101
3	90° Indexing	SPST	1, 2	On-Off	5A	6-32 Screw	450-1011-ND	24.50	22.40	21.00	20.30	SWK12F315
			2 only				450-1010-ND	35.51	32.47	30.44	29.43	SWK121F315
			1 only				450-1009-ND	26.27	24.02	22.52	21.77	SWK123F315

OMRON® Basic Type Snap Switches

9247B-ND	Omron Switch Databook	**$2.00**

V Series — **Standard Series**

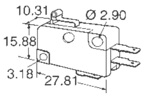

D3V Series — Low Cost Series

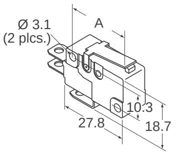

D2VW Series — Watertight Series; IP67

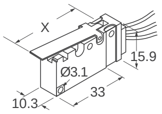

SS Series — Standard Series

SS-P Series — Low Cost Series

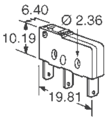

D2SW Series — Watertight; IP67

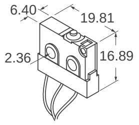

D2SW-P Series — Low Cost, Watertight; IP67

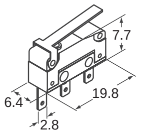

Fig. 1

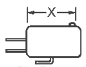

Pin Plunger

Fig. 2

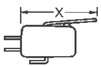

Lever

Fig. 3

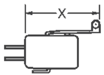

Roller Lever

Fig. 4

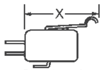

Simulated Roller Lever

Fig. 5

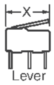

Lever

Fig. 6

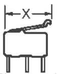

Simulated Roller Lever

Fig. 7

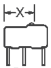

Pin Plunger

Fig. 8

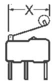

Roller Lever

Fig. 9 — D2F Series

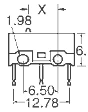

Fig. 10 — D2F Lever Series

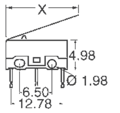

V Series: **Features:** • Operating Frequency: Mechanical: 600 operations per minute; Electrical: 30 operations per minute • Contact Resistance: 15mΩ maximum • Ambient Operating Temperature: -25°C ~ 80°C • Humidity: 85% RH maximum • Service Life: Mechanical: 50,000,000 operations minimum; Electrical: 100,000 operations minimum

D3V Series: **Features:** • Reliable and safe basic switch • External lever • Environment friendly with beryllium free contacts • Low cost version of V Series

Watertight D2VW/D2FW Miniature Basic Switch: **Features:** • High-quality, watertight, high-precision miniature basic switch — meets IP67 requirements • Monoblock construction assures high sealing capability and is ideal for dusty places or where water is sprayed • This series internal mechanism assures high operating-position accuracy (±0.4mm) and long life (Mechanical: 10 million operations) • Wide operating temperature range of -40°C ~ 90°C is ideal for any operating environment • General-load (5A @ 250VAC) and micro-load (.1A @ 125VAC) available

SS/SS-P Series: **Features:** • Economical, subminiature basic switch offers long mechanical service life (SS-1 and SS-5 Series: 30 million operations minimum; SS-10 Series: 10 million operations minimum; SS-P Series: 1 million operations minimum) • Wide switching capacity range from microvoltage/current loads (1mA @ 5VDC) to high-capacity loads (10.1A @ 250VAC) **Characteristics:** • Operating Frequency: Mechanical: 400 operations per minute; Electrical: 60 operations per minute • Ambient Operating Temperature: -25°C ~ 85°C • Humidity: 85% RH maximum

Watertight D2SW Miniature Basic Switch: **Features:** • High-quality, watertight miniature basic switch — meets IP67 requirements • A wide operating temperature range of -40°C ~ 85°C is ideal for any operating environment • Ideal for the automobile, agricultural machinery, automatic vending machine, refrigerator, ice-manufacturing, bath equipment, hot-water supply, air conditioner, and factory machine industries **Characteristics:** • Operating Frequency: Mechanical: 300 operations per minute; Electrical: 30 operations per minute • Contact Resistance: 70mΩ maximum • Life Expectancy: Mechanical: 5,000,000 operations minimum; Electrical: 200,000 operations minimum • Ambient Operating Humidity: 95% maximum • Enclosure Rating: Reference to IP67

Watertight D2SW-P Series: **Characteristics:** • Operating Temperature Range: -20°C ~ 70°C • Life Expectancy: Mechanical: 1,000,000 operations minimum • 2A @ 250VAC • IP67 Sealed

D2F Series: **Features:** • Super compact; ideal for PCB mounting • Long life span assured by high-precision dual spring reverse-action mechanism • Flux penetration prevented by using an insert terminal and allowing a height difference at the case bottom • Ideal for a wide variety of applications, from household appliances and office equipment to audio equipment and communications equipment

D3C Series: **Features:** • Built-in slide mechanism selects shorting or non-shorting switch timing • 3mm long stroke • PCB mount switch with 100mA capacity • Ideal for household appliances, sound equipment, office equipment, communications equipment, etc. • Compact size (8W x 6H x 4.2D mm) **Characteristics:** • Operating Frequency: Mechanical: 200 operations per minute; Electrical: 30 operations per minute • Contact Resistance: 50mΩ maximum • Ambient Operating Temperature: -20°C ~ 80°C • Operating Humidity: 65% maximum at 5°C ~ 35°C • Service Life: 50,000 operations minimum at the rated switch frequency

Watertight D2HW Series: **Features:** • Smallest sealed snap action switch • Fully sealed construction • Lead free construction • Conforms to IP67 (wire leads) and IP50 (terminal type) • Long stroke, even without levers for reliable On-Off action

Fig.	Contact Style	Contact Rating (A)	Terminal Size Inch (mm)	Dim. "X" (mm)	Actu-ation Force	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
V Series										
1	SPDT	10	.187 QC (4.75)	24.38	100gf	SW126-ND	1.85	1.67	1.48	V-10G-1C24-K
1	SPDT	15	.187 QC (4.75)	24.38	200gf	SW874-ND	2.25	2.03	1.80	V-15G-1C5-K
2	SPDT	10	.187 QC (4.75)	38.35	125gf	SW127-ND	1.88	1.69	1.50	V-10G2-1C25-K
3	SPDT	10	.187 QC (4.75)	24.38	240gf	SW128-ND	2.25	2.03	1.80	V-10G5-1C25-K
1	SPDT	15	.187 QC (4.75)	24.38	200gf	SW129-ND	1.85	1.67	1.48	V-15G-1C25-K
1	SPDT	15	.187 QC (4.75)	24.38	400gf	SW130-ND	1.85	1.67	1.48	V-15G-1C26-K
2	SPDT	15	.187 QC (4.75)	38.35	125gf	SW132-ND	1.88	1.69	1.50	V-15G2-1C26-K
2	SPDT	15	.187 QC (4.75)	38.35	125gf	SW875-ND	2.25	2.03	1.80	V-15G2-1C25-K
2	SPDT	15	.187 QC (4.75)	62.23	100gf	Z2252-ND	2.25	2.03	1.80	V-15G3-1C24-K
2	SPDT	15	.187 QC (4.75)	62.23	70gf	SW133-ND	2.05	1.85	1.64	V-15G3-1C25-K
2	SPDT	15	.187 QC (4.75)	62.23	130gf	SW134-ND	2.05	1.85	1.64	V-15G3-1C26-K
4	SPDT	15	.187 QC (4.75)	38.86	125gf	SW135-ND	1.98	1.78	1.58	V-15G4-1C25-K
3	SPDT	15	.187 QC (4.75)	24.38	480gf	SW136-ND	2.25	2.03	1.80	V-15G5-1C26-K
3	SPDT	15	.187 QC (4.75)	34.04	250gf	SW151-ND	2.25	2.03	1.80	V-15G6-1C26-K
4	SPDT	.1	.187 QC (4.75)	59.40	60gf	SW876-ND	4.31	3.88	3.45	VX-015-1C23
D3V Series										
1	SPDT	11	.187 QC (4.75)	20.2	200gf	SW707-ND	1.75	1.58	1.40	D3V11G1C25K
2	SPDT	11	.187 QC (4.75)	35.6	125gf	SW708-ND	2.03	1.83	1.62	D3V11G21C25K
2	SPDT	11	.187 QC (4.75)	35.6	125gf	SW709-ND	1.98	1.78	1.58	D3V11G2M1C25K
4	SPDT	11	.187 QC (4.75)	32.6	125gf	SW710-ND	2.03	1.83	1.62	D3V11G41C25K
4	SPDT	11	.187 QC (4.75)	32.6	125gf	SW711-ND	1.98	1.78	1.58	D3V11G4M1C25K
3	SPDT	11	.187 QC (4.75)	34.0	125gf	SW712-ND	2.43	2.19	1.94	D3V11G61C25K
3	SPDT	11	.187 QC (4.75)	34.0	125gf	SW713-ND	2.23	2.01	1.78	D3V11G6M1C25K
1	SPDT	16	.187 QC (4.75)	20.2	200gf	SW700-ND	1.75	1.58	1.40	D3V16G1C25K
2	SPDT	16	.187 QC (4.75)	35.6	125gf	SW701-ND	2.03	1.83	1.62	D3V16G21C25K
2	SPDT	16	.187 QC (4.75)	35.6	125gf	SW702-ND	1.98	1.78	1.58	D3V16G2M1C25K
4	SPDT	16	.187 QC (4.75)	32.6	125gf	SW703-ND	2.03	1.83	1.62	D3V16G41C25K
4	SPDT	16	.187 QC (4.75)	32.6	125gf	SW704-ND	1.98	1.78	1.58	D3V16G4M1C25K
3	SPDT	16	.187 QC (4.75)	34.0	125gf	SW705-ND	2.43	2.19	1.94	D3V16G61C25K
3	SPDT	16	.187 QC (4.75)	34.0	125gf	SW706-ND	2.23	2.01	1.78	D3V16G6M1C25K
Watertight IP67 D2VW Series										
1	SPDT	.1	.187 QC (4.75)	—	200gf	SW427-ND	3.55	3.20	2.84	D2VW-01-1HS
		.1	12 Wires (304.8)	—	200gf	SW428-ND	7.28	6.55	5.82	D2VW-01-1MS
2	SPDT	.1	.187 QC (4.75)	59	120gf	SW429-ND	4.25	3.83	3.40	D2VW-01L1-1HS
		.1	.187 QC (4.75)	59	60gf	SW863-ND	5.08	4.57	4.07	D2VW-01L1B-1HS
		.1	12 Wires (304.8)	59	120gf	SW430-ND	7.63	6.87	6.10	D2VW-01L1-1MS
3	SPDT	.1	.187 QC (4.75)	20.1	230gf	SW864-ND	6.11	5.51	4.90	D2VW-01L2A-1HS
		.1	.187 QC (4.75)	34	120gf	SW431-ND	5.68	5.11	4.54	D2VW-01L2-1HS
3	SPDT	.1	12 Wires (304.8)	34	120gf	SW432-ND	7.43	6.69	5.94	D2VW-01L2-1MS
1	SPDT	5	.187 QC (4.75)	—	200gf	SW433-ND	3.40	3.06	2.72	D2VW-5-1HS
		5	12 Wires (304.8)	—	200gf	SW434-ND	5.63	5.07	4.50	D2VW-5-1MS
2	SPDT	5	.187 QC (4.75)	35.6	120gf	SW435-ND	3.55	3.20	2.84	D2VW-5L1-1HS
		5	12 Wires (304.8)	35.6	120gf	SW436-ND	5.48	4.93	4.38	D2VW-5L1-1MS
3	SPDT	5	.187 QC (4.75)	34	120gf	SW437-ND	3.78	3.40	3.02	D2VW-5L2-1HS
		5	12 Wires (304.8)	34	120gf	SW438-ND	5.85	5.27	4.68	D2VW-5L2-1MS
SS Miniature Series										
7	SPDT Gold	.1	.110 QC (2.79)	13.46	50gf	SW138-ND	2.08	1.87	1.66	SS-01FT
5	SPDT Gold	.1	.110 QC (2.79)	19.69	50gf	SW139-ND	2.30	2.07	1.84	SS-01GLT
7	SPDT Gold	.1	PC Mount	13.46	150gf	SW155-ND	2.03	1.83	1.62	SS-01D
5	SPDT Gold	.1	PC Mount	19.69	50gf	SW239-ND	2.00	1.80	1.60	SS-01GLD
6	SPDT Gold	.1	PC Mount	21.59	50gf	SW240-ND	2.00	1.80	1.60	SS-01GL13D
6	SPDT Gold	.1	Solder Term	21.59	50gf	SW865-ND	2.00	1.80	1.60	SS-01GL13
8	SPDT Gold	.1	PC Mount	19.61	50gf	SW343-ND	2.40	2.16	1.92	SS-01GL2D
8	SPDT Gold	.1	PC Mount	19.61	16gf	SW866-ND	3.00	2.70	2.40	SS-01GL2-FD
7	SPDT	5	Solder Term	13.46	50gf	SW870-ND	1.23	1.11	.98	SS-5-F
7	SPDT	5	Solder Term	13.46	150gf	SW868-ND	1.23	1.11	.98	SS-5
7	SPDT	5	Right Angle PCB	13.46	150gf	SW869-ND	1.23	1.11	.98	SS-5D2
7	SPDT	5	.110 QC (2.79)	13.46	150gf	SW141-ND	1.35	1.22	1.08	SS-5T
5	SPDT	5	.110 QC (2.79)	19.69	50gf	SW143-ND	1.23	1.11	.98	SS-5GLT
6	SPDT	5	.110 QC (2.79)	21.59	50gf	SW144-ND	1.18	1.06	.94	SS-5GL13T
6	SPDT	5	Solder Term	21.59	50gf	SW871-ND	1.90	1.71	1.52	SS-5GL13
8	SPDT	5	.110 QC (2.79)	19.61	50gf	SW872-ND	1.90	1.71	1.52	SS-5GL2-FT
7	SPDT	5	.110 QC (2.79)	13.46	150gf	SW142-ND	1.23	1.11	.98	SS-5FT
8	SPDT	5	.110 QC (2.79)	19.61	50gf	SW873-ND	1.90	1.71	1.52	SS-5GL2T
8	SPDT	5	Solder	19.61	50gf	SW156-ND	1.45	1.31	1.16	SS-5GL2
7	SPDT	5	PC Mount	13.46	150gf	SW241-ND	1.23	1.11	.98	SS-5D
5	SPDT	5	PC Mount	19.69	50gf	SW242-ND	1.48	1.33	1.18	SS-5GLD
6	SPDT	5	PC Mount	21.59	50gf	SW243-ND	1.53	1.38	1.22	SS-5GL13D
8	SPDT	5	PC Mount	19.61	50gf	SW244-ND	1.73	1.56	1.38	SS-5GL2D
7	SPDT	10	.110 QC (2.79)	13.46	150gf	SW245-ND	2.18	1.96	1.74	SS-10T
5	SPDT	10	.110 QC (2.79)	19.69	50gf	SW867-ND	2.08	1.87	1.66	SS-10GL
5	SPDT	10	.110 QC (2.79)	19.69	50gf	SW246-ND	1.98	1.78	1.58	SS-10GLT
6	SPDT	10	.110 QC (2.79)	21.59	50gf	SW247-ND	2.00	1.80	1.60	SS-10GL13T
8	SPDT	10	.110 QC (2.79)	19.61	50gf	SW248-ND	2.23	2.01	1.78	SS-10GL2T
Low Cost SS-P Subminiature Series										
7	SPDT	3	Solder	12.70	150gf	SW763-ND	.71	.64	.57	SS-3GP
5	SPDT	3	Solder	19.65	50gf	SW764-ND	.83	.75	.67	SS-3GLP

(Continued)

Fig. 11 — D2FW Series
Watertight; IP67

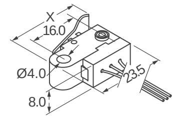

D2MQ Series

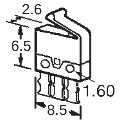

Fig. 14 — D3C Series

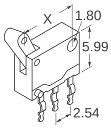

Fig. 12

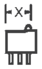

Pin Plunger

Fig. 13

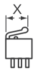

Leaf Lever

D2HW Series — Watertight; IP67

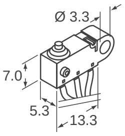

Fig. 15

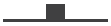

Fig. 16

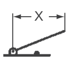

Fig. 17

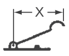

Fig. 18

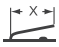

Fig. 19

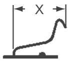

A

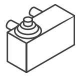

B

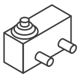

C

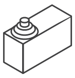

D

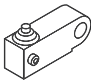

Fig.	Contact Style	Contact Rating (A)	Terminal Size Inch (mm)	Dim. "X" (mm)	Actuation Force	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
6	SPDT	3	Solder	20.95	50gf	SW765-ND	.83	.75	.67	SS-3GL13P
7	SPDT	3	.110 QC (2.79)	12.70	150gf	SW766-ND	.71	.64	.57	SS-3GPT
5	SPDT	3	.110 QC (2.79)	19.65	50gf	SW767-ND	.83	.75	.67	SS-3GLPT
6	SPDT	3	.110 QC (2.79)	20.95	50gf	SW768-ND	.83	.75	.67	SS-3GL13PT
7	SPDT	3	PC Mt. (uneven)	12.70	150gf	SW769-ND	.71	.64	.57	SS-3GPD
5	SPDT	3	PC Mt. (uneven)	19.65	50gf	SW770-ND	.83	.75	.67	SS-3GLPD
6	SPDT	3	PC Mt. (uneven)	20.95	50gf	SW771-ND	.83	.75	.67	SS-3GL13PD
7	SPDT	3	PC Mt. (even)	12.70	150gf	SW772-ND	.71	.64	.57	SS-3GPB
5	SPDT	3	PC Mt. (even)	19.65	50gf	SW773-ND	.83	.75	.67	SS-3GLPB
6	SPDT	3	PC Mt. (even)	20.95	50gf	SW774-ND	.83	.75	.67	SS-3GL13PB
7	SPDT Gold	.1	Solder	12.70	150gf	SW775-ND	.79	.71	.63	SS-01GP
5	SPDT Gold	.1	Solder	19.65	50gf	SW776-ND	.92	.83	.74	SS-01GLP
6	SPDT Gold	.1	Solder	20.95	50gf	SW777-ND	.92	.83	.74	SS-013GL13P
7	SPDT Gold	.1	.110 QC (2.79)	12.70	150gf	SW778-ND	.79	.71	.63	SS-01GPT
5	SPDT Gold	.1	.110 QC (2.79)	19.65	50gf	SW779-ND	.92	.83	.74	SS-01GLPT
6	SPDT Gold	.1	.110 QC (2.79)	20.95	50gf	SW780-ND	.92	.83	.74	SS-01GL13PT
7	SPDT Gold	.1	PC Mt. (uneven)	12.70	150gf	SW781-ND	.79	.71	.63	SS-01GPD
5	SPDT Gold	.1	PC Mt. (uneven)	19.65	50gf	SW782-ND	.92	.83	.74	SS-01GLPD
6	SPDT Gold	.1	PC Mt. (uneven)	20.95	50gf	SW783-ND	.92	.83	.74	SS-01GL13PD
7	SPDT Gold	.1	PC Mt. (even)	12.70	150gf	SW784-ND	.79	.71	.63	SS-01GPB
5	SPDT Gold	.1	PC Mt. (even)	19.65	50gf	SW785-ND	.92	.83	.74	SS-01GLPB
6	SPDT Gold	.1	PC Mt. (even)	20.95	50gf	SW786-ND	.92	.83	.74	SS-01GL13PB
Watertight IP67 D2SW Series										
5	SPDT	3	Solder	19.69	60gf	SW293-ND	2.68	2.41	2.14	D2SW-3L1HS
		3	.110 QC (2.79)	19.69	60gf	SW294-ND	2.68	2.41	2.14	D2SW-3L1TS
		3	12" Wires (304.8)	19.69	60gf	SW295-ND	4.35	3.92	3.48	D2SW-3L1MS
6	SPDT	3	Solder	21.59	60gf	SW296-ND	2.68	2.41	2.14	D2SW-3L3HS
		3	12" Wires (304.8)	21.59	60gf	SW297-ND	4.35	3.92	3.48	D2SW-3L3MS
7	SPDT	3	Solder	13.46	180gf	SW228-ND	2.53	2.28	2.02	D2SW-3HS
		3	.110 QC (2.79)	13.46	180gf	SW229-ND	2.53	2.28	2.02	D2SW-3TS
		3	PC Mount	13.46	180gf	SW291-ND	2.53	2.28	2.02	D2SW-3DS
		3	12" Wires (304.8)	13.46	180gf	SW292-ND	4.18	3.76	3.34	D2SW-3MS
8	SPDT	.1	12" Wires	19.61	60gf	SW862-ND	5.91	5.32	4.73	D2SW-01L2MS
		3	Solder	19.61	60gf	SW237-ND	3.05	2.75	2.44	D2SW-3L2HS
		3	12" Wires (304.8)	19.61	60gf	SW238-ND	4.60	4.14	3.68	D2SW-3L2MS
Watertight IP67 Low Cost D2SW-P Series										
6	SPDT	.1	.110 QC (2.79)	15.8	61gf	SW805-ND	1.85	1.67	1.48	D2SW-P01L3T
		.1	PC Mt. (uneven)	15.8	61gf	SW806-ND	1.85	1.67	1.48	D2SW-P01L3D
		.1	PC Mt. (even)	15.8	61gf	SW807-ND	1.85	1.67	1.48	D2SW-P01L3B
		.1	12" Wires (304.8)	15.8	61gf	SW808-ND	3.96	3.57	3.17	D2SW-P01L3M
7	SPDT	.1	.110 QC (2.79)	—	183gf	SW803-ND	1.44	1.30	1.16	D2SW-P01T
		.1	PC Mt. (uneven)	—	183gf	SW804-ND	1.44	1.30	1.16	D2SW-P01D
6	SPDT	2	Solder	15.8	61gf	SW811-ND	1.65	1.49	1.32	D2SW-P2L3H
		2	12" Wires (304.8)	15.8	61gf	SW812-ND	3.77	3.40	3.02	D2SW-P2L3M
7	SPDT	2	.110 QC (2.79)	—	183gf	SW809-ND	1.27	1.15	1.02	D2SW-P2T
8	SPDT	2	Solder	14.5	61gf	SW810-ND	2.04	1.84	1.63	D2SW-P2L2H
D2F Series										
9	SPDT	3	PC Mount	5.18	150gf	SW500-ND	1.00	.90	.80	D2F
		.1	PC Mount	5.18	150gf	SW501-ND	1.00	.90	.80	D2F-01
		.1	Solder Term	5.18	150gf	SW857-ND	1.22	1.10	.98	D2F-01-D
		.1	PC Mount	5.18	75gf	SW502-ND	1.00	.90	.80	D2F-01F
		.1	PC Mount	13.97	80gf	SW154-ND	1.10	.99	.88	D2F-01L
		.1	Solder	12.8	80gf	SW840-ND	2.48	2.24	1.99	D2F-01L2-D
		3	PC Mount	5.18	75gf	SW503-ND	1.14	1.03	.91	D2F-F
10	SPDT	.1	PC Mount	13.97	75gf	SW858-ND	1.33	1.20	1.07	D2F-01FL
10	SPDT	.1	PC Mount	7.40	80gf	SW859-ND	1.46	1.32	1.17	D2F-01L3
		3	Solder Term	13.97	80gf	SW861-ND	1.27	1.15	1.02	D2F-L-D
		3	PC Mount	13.97	80gf	SW152-ND	1.10	.99	.88	D2F-L
		3	PC Mount	13.97	25gf	SW153-ND	1.10	.99	.88	D2F-FL
		3	PC Mount	13.97	80gf	SW860-ND	2.44	2.20	1.96	D2F-L2
		1	Right Angle	14	25gf	SW841-ND	1.95	1.76	1.56	D2F-FL-A
		3	Right Angle	14	80gf	SW842-ND	1.95	1.76	1.56	D2F-L-A
		3	Left Angle	14	80gf	SW843-ND	1.85	1.67	1.48	D2F-L-A1
Watertight IP67 D2FW Series										
11	SPST-NO	.1	12 Wires (304.8)	22.8	250gf	SW511-ND	3.48	3.13	2.78	D2FW-G073M
		1	12 Wires (304.8)	22.8	250gf	SW512-ND	3.48	3.13	2.78	D2FW-G273M
		.1	12 Wires (304.8)	19.0	300gf	SW513-ND	4.28	3.85	3.42	D2FW-G083M
		1	12 Wires (304.8)	19.0	300gf	SW514-ND	4.27	3.85	3.42	D2FW-G283M
D2MQ Series										
12	SPDT Silver	500mA	.05 (1.27)	6.00	120gf	SW145-ND	2.80	2.52	2.24	D2MQ-1
13	SPDT Silver	500mA	.05 (1.27)	7.70	60gf	SW146-ND	2.88	2.59	2.30	D2MQ-1L
D3C Series										
14	Non-Short	.1	PC Mount	8.69	130gf	SW224-ND	1.13	1.02	.90	D3C-1210
	Shorting	.1	PC Mount	8.69	130gf	SW226-ND	1.13	1.02	.90	D3C-2210
	Non-Short	.1	PC Mount	8.69	40gf	SW225-ND	1.13	1.02	.90	D3C-1220
	Shorting	.1	PC Mount	8.69	40gf	SW227-ND	1.13	1.02	.90	D3C-2220
Watertight IP67 D2HW Miniature Series										
15A	SPDT	2	Right Angle PCB	—	76gf	SW714-ND	2.43	2.19	1.94	D2HWBR201DR
15B	SPDT	2	Right Angle PCB	—	76gf	SW715-ND	2.43	2.19	1.94	D2HWBL201DL
15C	SPDT	2	Straight PCB	—	76gf	SW716-ND	2.43	2.19	1.94	D2HWA201D
15A	SPDT	2	Down Wire Leads	—	76gf	SW719-ND	4.93	4.44	3.94	D2HWBR201M
15B	SPDT	2	Down Wire Leads	—	76gf	SW720-ND	4.93	4.44	3.94	D2HWBL201M
15D	SPDT	2	Down Wire Leads	—	76gf	SW721-ND	5.43	4.89	4.34	D2HWC201M
16A	SPDT	2	Right Angle PCB	13	61gf	SW717-ND	2.58	2.32	2.06	D2HWBR211DR
16A	SPDT	2	Down Wire Leads	13	61gf	SW722-ND	5.18	4.66	4.14	D2HWBR211M
16B	SPDT	2	Down Wire Leads	13	61gf	SW723-ND	5.18	4.66	4.14	D2HWBL211M
16D	SPDT	2	Down Wire Leads	13	61gf	SW724-ND	5.60	5.04	4.48	D2HWC211M
16A	SPST-NC	2	Right Wire Leads	13	61gf	SW725-ND	5.18	4.66	4.14	D2HWBR212MR
16B	SPST-NC	2	Right Wire Leads	13	61gf	SW726-ND	5.18	4.66	4.14	D2HWBL212MR
16D	SPST-NC	2	Right Wire Leads	13	61gf	SW727-ND	5.60	5.04	4.48	D2HWC212MR
16A	SPST-NO	2	Right Wire Leads	13	61gf	SW728-ND	5.18	4.66	4.14	D2HWBR213MR
16B	SPST-NO	2	Right Wire Leads	13	61gf	SW729-ND	5.18	4.66	4.14	D2HWBL213MR
16C	SPST-NO	2	Right Wire Leads	13	61gf	SW730-ND	5.60	5.04	4.48	D2HWC213MR
16A	SPST-NC	2	Left Wire Leads	13	61gf	SW731-ND	5.18	4.66	4.14	D2HWBR212ML
16B	SPST-NC	2	Left Wire Leads	13	61gf	SW732-ND	5.18	4.66	4.14	D2HWBL212ML
16A	SPST-NO	2	Left Wire Leads	13	61gf	SW733-ND	5.18	4.66	4.14	D2HWBR213ML
16B	SPST-NO	2	Left Wire Leads	13	61gf	SW734-ND	5.18	4.66	4.14	D2HWBL213ML
17A	SPDT	2	Down Wire Leads	16	61gf	SW737-ND	5.18	4.66	4.14	D2HWBR231M
17B	SPDT	2	Down Wire Leads	16	61gf	SW738-ND	5.18	4.66	4.14	D2HWBL231M
16B	SPDT	2	Right Angle PCB	20	41gf	SW718-ND	1.89	1.71	1.52	D2HWBL221DL
16A	SPDT	2	Down Wire Leads	20	41gf	SW735-ND	5.18	4.66	4.14	D2HWBR221M
16B	SPDT	2	Down Wire Leads	20	41gf	SW736-ND	5.18	4.66	4.14	D2HWBL221M
18A	SPDT	2	Down Wire Leads	8	183gf	SW739-ND	5.18	4.66	4.14	D2HWBR261M
18B	SPDT	2	Down Wire Leads	8	183gf	SW740-ND	5.18	4.66	4.14	D2HWBL261M
17A	SPDT	2	Down Wire Leads	16	183gf	SW741-ND	5.18	4.66	4.14	D2HWBR271M
17B	SPDT	2	Down Wire Leads	16	183gf	SW742-ND	5.18	4.66	4.14	D2HWBL271M
19A	SPDT	2	Down Wire Leads	20.85	92gf	SW743-ND	5.18	4.66	4.14	D2HWBR281M
19B	SPDT	2	Down Wire Leads	20.85	92gf	SW744-ND	5.18	4.66	4.14	D2HWBL281M

(Continued)

J Series – Mini Snap Switches

Features:

- Snap-action switch allows large-capacity switching (7A @ 250VAC) in spite of its small size (8.9 x 12.7 x 5.1mm) • Particularly suitable as control switches for applications where there are restrictions on installation space and weight

Characteristics:

- Contact Resistance: 15mΩ maximum • Dielectric Strength: 600VAC, 50/60Hz for 1 minute between terminals of the same polarity • Durability: Mechanical: 10,000,000 operations minimum; Electrical: 50,000 operations minimum • Ambient Operating Temperature: -10°C ~ 80°C

Fig. 1

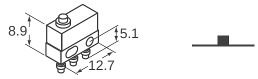

Fig. 2

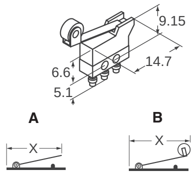

Fig.	Operating Force (gf) Maximum	Actuator Type	Dim. "X" (mm)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	140	Pin Plunger	—	SW813-ND	8.38	7.55	6.71	J-7
2A	50	Short Hinge Lever	12.7	SW814-ND	13.26	11.94	10.61	J-7-V
	30	Hinge Lever	22.0	SW815-ND	12.77	11.50	10.22	J-7-V3
	20	Long Hinge Lever	33.8	SW816-ND	12.77	11.50	10.22	J-7-V4
2B	55	Short Hinge Roller Lever	11.5	SW817-ND	14.78	13.31	11.83	J-7-V22
	33	Hinge Roller Lever	20.5	SW818-ND	14.80	13.32	11.84	J-7-V2

D2RW Series – Sealed Reed Snap Switches

Features:

- Internal reed switch circuit block is separated from the mechanical actuator block, enabling the circuit block to be entirely sealed • Use of a reed switch maintains high contact reliability with micro load range
- Compatible mounting dimension as miniature basic switch models V and D2VW

Characteristics:

- Switching Voltage: 100VDC maximum • Switching Current: .25A maximum • Contact Capacity: 10W maximum

Fig. 1

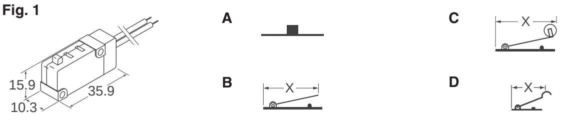

Fig.	Operating Force (gf) Maximum	Actuator Type	Dim. "X" (mm)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1A	153	Pin Plunger	—	SW830-ND	25.55	23.00	20.44	D2RW01
1B	76	Hinge Lever	35.6	SW829-ND	26.00	23.40	20.80	D2RW01L1
1C	76	Hinge Roller Lever	34.0	SW827-ND	26.46	23.81	21.17	D2RW01L2
1D	76	Simulated Roller Lever	32.6	SW828-ND	26.00	23.40	20.80	D2RW01L3

B3J Series – Tactile Switches

Superior snap action using Omron's B3F tact switches and hinged lever cap. Switches include hinged caps that are available with none, 1 or 2 LED's. Ideal for data entry, logic and digital signal input.

Characteristics: Switching Capacity: 1-50mA, 5-24VDC • Ambient Temperature: -25°C ~ 70°C • Contact Resistance: 100mΩ maximum (rated 1mA, 5VDC) • Dielectric Strength: 500VAC, 50/60Hz for 1 minute • Bounce Time: 5ms maximum • Life Expectancy: 3,000,000 operations minimum **LED:** • VF: 2.0VDC • IF: 20mA • VR: 5VDC

Fig. 1

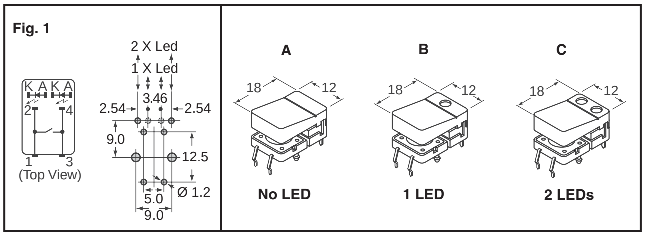

No LED

1 LED

2 LEDs

Fig.	Color of Hinged Button	Color of LED	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1A	Light Gray	—	SW819-ND	1.61	1.45	1.29	B3J-1000
	Black	—	SW820-ND	1.61	1.45	1.29	B3J-1100
	Orange	—	SW2314-ND	1.61	1.45	1.29	B3J-1200
	Yellow	—	SW2315-ND	1.61	1.45	1.29	B3J-1300
	Blue	—	SW2316-ND	1.61	1.45	1.29	B3J-1400
1B	Light Gray	Red	SW821-ND	2.87	2.58	2.30	B3J-2000
	Black	Red	SW822-ND	2.87	2.58	2.30	B3J-2100
	Light Gray	Green	SW823-ND	2.87	2.58	2.30	B3J-4000
	Black	Green	SW824-ND	2.87	2.58	2.30	B3J-4100
1C	Light Gray	Red/Green	SW825-ND	4.04	3.64	3.24	B3J-6000
	Black	Red/Green	SW826-ND	4.04	3.64	3.24	B3J-6100

D2A Series – Pushbutton Switches

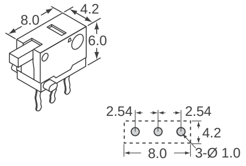

Ultra subminiature detection switch with pushbutton action.

Features: • Compact (8 x 6 x 4.2mm (W x H x D)) • Light weight (approximately 0.3g) • 3mm long stroke • Built-in slide mechanism for selecting shorting or non-shorting timing of the switch • Switch's small size makes it ideal for household appliances, audio equipment, office equipment, communications equipment, etc.

Characteristics: • Contact Rating: .1A @ 30VDC • Operating Frequency: Mechanical: 200 operations per minute; Electrical: 30 operations per minute • Dielectric Strength: 250VAC, 50/60Hz for 1 minute • Ambient Temperature: Operating: -10°C ~ 70°C

Operating Force (gf) Maximum	Switching Timing	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
100	Non-shorting	SW831-ND	1.30	1.18	1.05	D2A-1110
100	Shorting	SW832-ND	1.31	1.19	1.06	D2A-2110
50	Non-shorting	SW833-ND	1.31	1.19	1.06	D2A-1120
50	Shorting	SW834-ND	1.31	1.19	1.06	D2A-2120

Miniature Door Switches

Omron's Mini Door Switch has a unique mechanism allowing switching of micro loads. Choose from plunger or lever actuators, both having a low operating force of 204g maximum. Uses JST's HL connectors.

Features: • Disconnectable crimp connector for easier wiring • High contact reliability ensured with gold crossbar contacts • Low noise operation • Operating Temperature: -30°C ~ 60°C • Contact Resistance: 100mΩ maximum • UL, CSA, VDE approved

Fig. 1

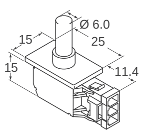

Fig. 2

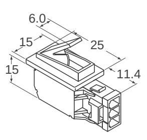

Fig.	Contact Style	Actuator Type	Operating Force g. Maximum	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	SPDT	Plunger	204	SW745-ND	1.73	1.56	1.38	D3D-111
	SPST-NC	Plunger	204	SW746-ND	1.51	1.36	1.21	D3D-121
	SPST-NO	Plunger	204	SW747-ND	1.51	1.36	1.21	D3D-131
2	SPDT	Lever	204	SW748-ND	1.83	1.65	1.47	D3D-211
	SPST-NC	Lever	204	SW749-ND	1.61	1.45	1.29	D3D-221
	SPST-NO	Lever	204	SW750-ND	1.61	1.45	1.29	D3D-231

JST

Description	Digi-Key Part No.	Pricing 10	100	500	Tape & Reel Pricing* 6,000	JST Part No.
Connector Housing, 3-Pos. for D3D Switch	455-1562-ND	1.27	10.60	42.39	—	HLP-03V
Contacts for Connector Housing, 18-22 AWG	455-1563-1-ND	.73	6.50	28.69	31.00/M	SSF-21T-P1.4

* For Tape and Reel part number, change 1-ND to 2-ND.

OMRON D3M Production Wired Snap Switches

Easy wiring snap switch for general purpose snap switch applications. Contact current of .1A, RoHS Compliant and external levers, makes this switch an easy production type switch. Mating connector uses JST's XA connector: XAP-02V-1 (455-1903-ND)

Specifications: • **Operating Frequency: Mechanical:** 400 operations/minute maximum **Electrical:** 60 operations/minute maximum • **Life Expectancy: Mechanical:** 500,000 operations **Electrical:** 200,000 operations • **Operating Temperature:** -25°C ~ 85°C

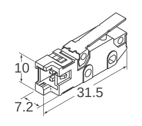

Fig. 1

Fig. 2

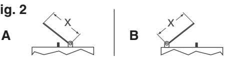

Fig. 3

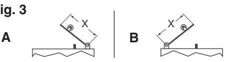

Fig. 4

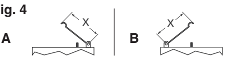

Fig.	Contact Style	Contact Rating	Dimension "X" Inch (mm)	Actuation Force	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	SPST-NC	.1A	—	153Gf	SW877-ND	1.98	1.79	1.59	D3M-01
	SPST-NO	.1A		153Gf	SW878-ND	2.38	2.14	1.90	D3M-01-3
2A	SPST-NC	.1A	.72" (18.2)	51Gf	SW879-ND	2.09	1.89	1.68	D3M-01K1
	SPST-NO	.1A		51Gf	SW880-ND	1.94	1.75	1.55	D3M-01K1-3
2B	SPST-NC	.1A	.72" (18.2)	102Gf	SW885-ND	2.09	1.89	1.68	D3M-01L1
	SPST-NO	.1A		102Gf	SW886-ND	1.96	1.77	1.57	D3M-01L1-3
3A	SPST-NC	.1A	.70" (17.8)	51Gf	SW881-ND	2.95	2.66	2.36	D3M-01K2
	SPST-NO	.1A		51Gf	SW882-ND	2.54	2.29	2.04	D3M-01K2-3
3B	SPST-NC	.1A	.70" (17.8)	102Gf	SW887-ND	2.95	2.66	2.36	D3M-01L2
	SPST-NO	.1A		102Gf	SW888-ND	2.40	2.16	1.92	D3M-01L2-3
4A	SPST-NC	.1A	.78" (19.2)	51Gf	SW883-ND	2.09	1.89	1.68	D3M-01K3
	SPST-NO	.1A		51Gf	SW884-ND	1.96	1.77	1.57	D3M-01K3-3
4B	SPST-NC	.1A	.78" (19.2)	102Gf	SW889-ND	2.09	1.89	1.68	D3M-01L3
	SPST-NO	.1A		102Gf	SW890-ND	1.96	1.77	1.57	D3M-01L3-3

JST

Description	Digi-Key Part No.	Pricing 10	100	500	Tape & Reel Pricing* 8,000	JST Part No.
Connector Housing, 2-Pos. for D3M Switch	455-1903-ND	.54	4.50	17.99	—	XAP-02V-1
Contacts for Connector Housing, 28-22 AWG	455-1904-1-ND	.34	3.05	13.44	14.00/M	SXA-001T-P0.6

* For Tape and Reel part number, change 1-ND to 2-ND.

OMRON Basic Switches

Omron's "Z" Series switches feature 15A contacts which directly switches such loads as motors, halogen lamps and solenoids.
Omron's "A" Series has the same body yet switches 20A loads with large inrush currents. All switches feature screw terminal connections and are UL listed CSA certified. Both series are momentary action, SPDT versions.
Omron's "TZ" Series incorporate a ceramic body, cobalt-alloy spring and special-alloy contact, thus ensuring high contact reliability at high ambient temperature. Smoothly operates at an ambient temperature of 400°C. Operates from -65°C ~ 400°C

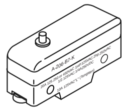

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

Fig.	Operating Force g. Maximum	Switch Current (A)	Actuator Type	Actuator Length (mm)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	350	15	Pin Plunger	—	SW190-ND	6.85	6.17	5.48	Z15G-B
2	350	15	Spring Plunger	—	SW191-ND	8.43	7.59	6.74	Z15GD-B
3	350	15	Panel Plunger	—	SW192-ND	11.50	10.35	9.20	Z15GQ-B
4	350	15	Panel Roller	—	SW193-ND	13.58	12.22	10.86	Z15GQ21-B
5	350	15	Panel Roller	—	SW194-ND	13.58	12.22	10.86	Z15GQ22-B
6	70	15	Lever	63.50	SW195-ND	9.20	8.28	7.36	Z15GW-B
7	100	15	Long Roller Lever	48.49	SW196-ND	9.20	8.28	7.36	Z15GW2-B
8	160	15	Short Roller Lever	26.59	SW197-ND	8.60	7.74	6.88	Z15GW22-B
6	6	15	Low Force Lever	63.50	SW198-ND	9.50	8.55	7.60	Z15HW24-B7-K
1	625	20	Pin Plunger	—	SW230-ND	9.28	8.35	7.42	A20G-B7-K
6	70	20	Lever	63.50	SW231-ND	9.33	8.40	7.46	A20GV-B7-K
7	90	20	Long Roller Lever	48.49	SW232-ND	9.33	8.40	7.46	A20GV2-B7-K
3	625	20	Panel Plunger	—	SW233-ND	14.10	12.69	11.28	A20GQ-B7-K
8	160	20	Short Roller Lever	26.59	SW234-ND	10.03	9.03	8.02	A20GV22-B7-K
Phenolic Terminal Cover for A/Z Series					SW235-ND	.88	.79	.70	AP-B
Terminal Cover with Strain Relief for A/Z Series					SW236-ND	4.53	4.08	3.62	AP-Z
High Temperature Basic Switches									
1	350	1	Pin Plunger	—	SW759-ND	175.10	156.68	138.24	TZ-1G
6	70	1	Lever	63.50	SW760-ND	287.76	257.47	227.18	TZ-1GV
7	160	1	Long Roller Lever	48.49	SW761-ND	287.76	257.47	227.18	TZ-1GV2
8	100	1	Short Roller Lever	26.59	SW762-ND	280.57	251.04	221.51	TZ-1GV22

D4C Industrial Sealed Limit Switches

Omron's D4C series limit switches are industrial enclosed limit switches with rugged diecast housing, triple sealed construction and prewired 10' cable. Perfect for harsh environments and indoor/outdoor uses where small size is a consideration.

Fig. 1

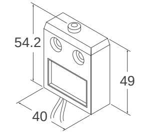

Fig. 2

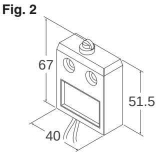

Fig. 3

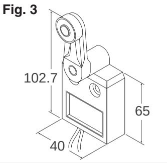

Fig.	Operating Force g. Max.	Switch Current (A)	Actuator Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	1200	5	Pin Plunger	Z1055-ND	54.66	50.61	47.24	D4C-1601
2	1200	5	Roller Plunger	Z1056-ND	54.66	50.61	47.24	D4C-1602
3	580	5	Roller Lever	Z1057-ND	66.91	61.95	57.82	D4C-1620

ZE Industrial Sealed High Capacity Switches

Long service life, rugged die cast housing sealed industrial switches with a high capacity contact (15A). NEMA sealed for extremely long service life (SPDT 15A @ 125VAC).

Fig. 1

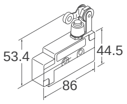

Fig. 2

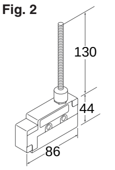

Fig. 3

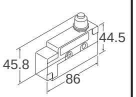

Fig. 4

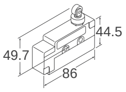

Fig.	Operating Force g. Max.	Switch Current (A)	Actuator Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	640	15	Roller Arm Lever	Z1058-ND	41.50	38.43	35.87	ZE-NA2-2S
2	150	15	Coil Spring	Z1059-ND	42.41	39.27	36.66	ZE-NJ-2S
3	800	15	Plunger	Z1060-ND	32.21	29.82	27.84	ZE-N-2S
4	500	15	Roller Plunger	Z1061-ND	43.09	39.90	37.24	ZE-N22-2S

Safety-Door Switch

Features: • Special operation key that positively pulls apart contacts, contributing to machine safety • Degree of protection: IP67 • Conforms to the following EC Directives: Machinery Directive, Low Voltage Directive, EN50041, EN1088 • Operating Temperature: -40 ~ 80°C • Conduit: 1/2-14NPT • Life Expectancy: Mechanical - 1,000,000 Operations Min. • Conventional Enclosed Thermal Current: 20 A

Fig. 1

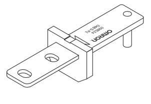

Fig. 2

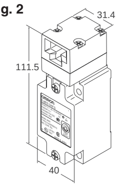

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Horizontal Mount Key for D4BS Switch	Z2430-ND	6.25	5.79	5.41	D4BS-K1
	Vertical Mount Key for D4BS Switch	Z2431-ND	7.16	6.63	6.19	D4BS-K2
	Adjustable Horizontal Mount Key for D4BS Switch	Z2432-ND	22.23	20.58	19.21	D4BS-K3
2	Safety Switch DP-N/C (2NC) 10A Sealed	Z2433-ND	53.75	49.77	46.46	D4BS-3AFS
	Safety Switch SPDT (1NC/1NO) 10A Sealed	Z2434-ND	53.75	49.77	46.46	D4BS-35FS

Snap Type Switches

UL Recognized and CSA Certified

Fig. 1 – Subminiature, DG Series

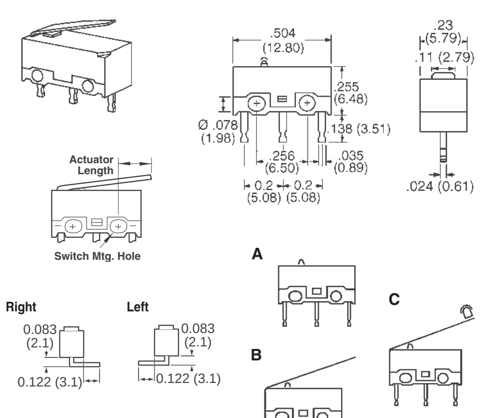

Ratings: **DG1:** 2 Amps 30VDC, PCB
DG2: 50mA 30VDC, PCB

Fig. 2 – Ultra-Subminiature and Subminiature, DH Series

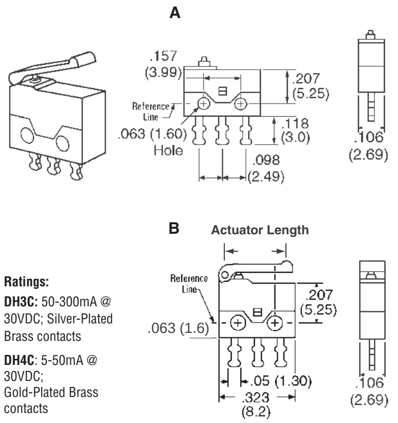

Ratings:
DH3C: 50-300mA @ 30VDC; Silver-Plated Brass contacts
DH4C: 5-50mA @ 30VDC; Gold-Plated Brass contacts

Fig. 3 – Water and Dust Sealed, DC Series

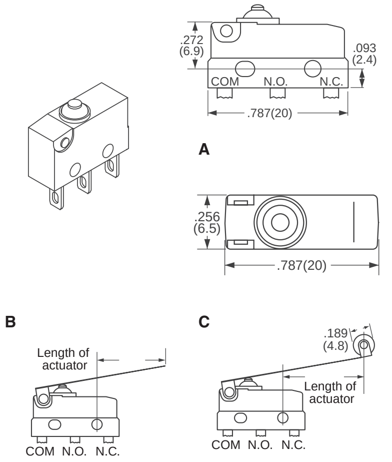

Fig.	Description	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Pricing 1	10	50	100	500	Cherry Part No.
1A	Subminiature DG Series	SPDT	5 - 50mA	Vertical PCB	Button	—	140	CH167-ND	3.70	32.88	137.00	236.33	1082.30	DG23-B1AA
1B				Vertical PCB	Lever	0.169 (4.29)	45	CH168-ND	3.81	33.84	141.00	243.23	1113.90	DG23-B1LA
1B				Right Angle - PCB	Lever	0.169 (4.29)	140	CH621-ND	3.94	35.04	146.00	251.85	1153.40	DG23-B2LA
1B				Left Angle - PCB	Lever	0.169 (4.29)	140	CH624-ND	3.94	35.04	146.00	251.85	1153.40	DG23-B3LA
1C				Vertical PCB	Roller Lever	0.075 (1.91)	45	CH169-ND	3.94	35.04	146.00	251.85	1153.40	DG23-B1RA
1C				Right Angle - PCB	Roller Lever	0.075 (1.91)	140	CH622-ND	4.08	36.24	151.00	260.48	1192.90	DG23-B2RA
1A		SPDT	3A	Vertical PCB	Button	—	140	CH164-ND	3.40	30.24	126.00	217.35	995.40	DG13-B1AA
1B					Lever	0.169 (4.29)	45	CH165-ND	3.56	31.68	132.00	227.70	1042.80	DG13-B1LA
1C					Roller Lever	0.075 (1.91)	45	CH166-ND	3.70	32.88	137.00	236.33	1082.30	DG13-B1RA
2A	Subminiature DH Series	SPDT	50-300mA	Straight - Solder	Button	—	90	CH841-ND	2.48	22.08	92.00	158.70	726.80	DH3C-B1AA
2A			5-50mA		Button	—	90	CH842-ND	4.21	37.44	156.00	269.10	1232.40	DH4C-B1AA
2B			50-300mA		Simulated Roller	0.252 (6.4)	50	CH843-ND	2.57	22.80	95.00	163.88	750.50	DH3C-B1LA
2B			5-50mA		Simulated Roller	0.252 (6.4)	50	CH844-ND	4.37	38.88	162.00	279.45	1279.80	DH4C-B1LA
2A		SPDT	50-300mA	RH Side - PCB	Button	—	90	CH845-ND	2.57	22.80	95.00	163.88	750.50	DH3C-C5AA
2A			5-50mA		Button	—	90	CH846-ND	4.37	38.88	162.00	279.45	1279.80	DH4C-C5AA
2B			50-300mA		Simulated Roller	0.252 (6.4)	50	CH847-ND	2.62	23.28	97.00	167.33	766.30	DH3C-C5LA
2B			5-50mA		Simulated Roller	0.252 (6.4)	50	CH848-ND	4.46	39.60	165.00	284.63	1303.50	DH4C-C5LA
2A		SPDT	50-300mA	LH Side - PCB	Button	—	90	CH849-ND	2.89	25.68	107.00	184.58	845.30	DH3C-C6AA
2A			5-50mA		Button	—	90	CH850-ND	4.89	43.44	181.00	312.23	1429.90	DH4C-C6AA
2B			50-300mA		Simulated Roller	0.252 (6.4)	50	CH851-ND	2.62	23.28	97.00	167.33	766.30	DH3C-C6LA
2B			5-50mA		Simulated Roller	0.252 (6.4)	50	CH852-ND	4.46	39.60	165.00	284.63	1303.50	DH4C-C6LA
2B		SPDT	50-300mA	Straight - PCB	Simulated Roller	0.252 (6.4)	50	CH853-ND	2.59	23.04	96.00	165.60	758.40	DH3C-C4LA
2B			5-50mA		Simulated Roller	0.252 (6.4)		CH854-ND	4.40	39.12	163.00	281.18	1287.70	DH4C-C4LA
3A	Sealed DC Series Water & Dust	SPDT	0.1A	Solder Eyelet	Button	—	347	CH293-ND	5.99	53.28	222.00	382.95	1753.80	DC3C-A1AA
3A				Wire 18AWG Leads	Button	—	204	CH614-ND	17.90	159.12	663.00	1143.68	5237.70	DC3C-D5AA
3A				Left Angle - PCB	Button	—	204	CH615-ND	3.89	34.56	144.00	248.40	1137.60	DC3C-K7AA
3A				Wire 20AWG Leads	Button	—	204	CH616-ND	18.77	166.80	695.00	1198.88	5490.50	DC3C-M3AA
3B				Solder Eyelet	Lever	0.189 (4.80)	204	CH613-ND	7.37	65.52	273.00	470.93	2156.70	DC3C-A1LB
3A		SPDT	5A	Solder Eyelet	Button	—	204	CH290-ND	4.08	36.24	151.00	260.48	1192.90	DC1C-A1AA
3A				Wire 18AWG Leads	Button	—		CH607-ND	12.85	114.24	476.00	821.10	3760.40	DC1C-D5AA
3A				Right Angle - PCB	Button	—		CH608-ND	3.62	32.16	134.00	231.15	1058.60	DC1C-K6AA
3B				Solder Eyelet	Lever	0.189 (4.80)		CH291-ND	4.54	40.32	168.00	289.80	1327.20	DC1C-A1LB
3B				.110 (2.79) QC	Lever	0.276 (7.01)		CH609-ND	4.40	39.12	163.00	281.18	1287.70	DC1C-L1LC
3C				Solder Eyelet	Roller Lever	0.098 (2.49)		CH606-ND	8.72	77.52	323.00	557.18	2551.70	DC1C-A1RB
3A		SPDT	10.1A	Solder Eyelet	Button	—	347	CH292-ND	4.51	40.08	167.00	288.08	1319.30	DC2C-A1AA
3B				Solder Eyelet	Lever	0.189 (4.80)		CH610-ND	5.32	47.28	197.00	339.83	1556.30	DC2C-A1LB
3A				Wire 16AWG Leads	Button	—		CH611-ND	15.04	133.68	557.00	960.83	4400.30	DC2C-E5AA
—	Replacement Actuator	Standard Lever for 1LB/1MB Suffix						CH657-ND	.16	1.44	6.00	10.35	47.40	0014-5576
		Simulated Roller Lever for 1SB/1UB Suffix						CH658-ND	.16	1.44	6.00	10.35	47.40	0014-5594
		Standard Lever for DC Series, LC Suffix						CH668-ND	.16	1.44	6.00	10.35	47.40	0614-1233
		Extra Long Lever, LD Suffix						CH669-ND	.41	3.60	15.00	25.88	118.50	0614-1234
		Roller Lever for DC Series, RB Suffix						CH673-ND	.68	6.00	25.00	43.13	197.50	0714-0260
		Roller Lever for DC Series, RC Suffix						CH674-ND	.68	6.00	25.00	43.13	197.50	0714-0261
		Roller Lever for DC Series, RD Suffix						CH675-ND	.70	6.24	26.00	44.85	205.40	0714-0262

Snap and Lever Type Switches

Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each			Cherry Part No.
								1	10	50	
General Purpose — E13, E14, E19, E20 and G13 Power Series											
1B	SPDT	0.1A	.250 QC (6.35)	Threaded Bushing	—	425	CH573-ND	6.13	5.45	4.54	G13-00J
1C	SPDT	0.1A	.250 QC (6.35)	Threaded Bushing	—	425	CH574-ND	6.40	5.69	4.74	G13-00M
1D	SPDT	0.1A	.250 QC (6.35)	Long Lever	1.5 (38.10)	100	CH572-ND	6.59	5.86	4.88	G13-00H
1D	SPDT	0.1A	.250 QC (6.35)	Long Lever	1.75 (44.45)	65	CH575-ND	6.59	5.86	4.88	G13-50H
1A	SPDT	15A	.250 QC (6.35)	Plastic Button	—	425	CH102-ND	2.92	2.60	2.16	E13-00E
1B	SPDT	15A	.250 QC (6.35)	THD Bushing/Plastic Button	—	425	CH100-ND	3.24	2.88	2.40	E13-00J
1C	SPDT	15A	.250 QC (6.35)	THD Bushing/Metal Button	—	425	CH101-ND	4.10	3.65	3.04	E13-00M
1D	SPDT	15A	.250 QC (6.35)	Long Lever	1.5 (38.10)	100	CH312-ND	3.97	3.53	2.94	E13-00H
1D	SPDT	15A	.250 QC (6.35)	Long Lever	1.75 (44.45)	65	CH314-ND	4.37	3.89	3.24	E13-50H
1E	SPDT	15A	.250 QC (6.35)	Long Roller	1.391 (35.33)	100	CH313-ND	4.81	4.28	3.56	E13-00K
1D	DPDT	20A	.250 QC (6.35)	Long Lever	.821 (20.85)	425	CH505-ND	10.02	8.91	7.42	E20-00H
1D	DPDT	20A	.250 QC (6.35)	Long Lever	1.071 (27.20)	285	CH506-ND	11.04	9.82	8.18	E20-50H
1A	SPDT	25A	.250 QC (6.35)	Plastic Button	—	850	CH315-ND	4.02	3.58	2.98	E14-00A
1C	SPDT	25A	.250 QC (6.35)	THD Bushing/Metal Button	—	850	CH318-ND	5.35	4.76	3.96	E14-00M
1D	SPDT	25A	.250 QC (6.35)	Short Lever	.821 (20.85)	285	CH316-ND	5.45	4.85	4.04	E14-00H
1D	SPDT	25A	.250 QC (6.35)	Long Lever	1.071 (27.20)	170	CH319-ND	5.35	4.76	3.96	E14-50H
1A	DPDT	15A	.250 QC (6.35)	Plastic Button	—	850	CH320-ND	6.10	5.43	4.52	E19-00A
1B	DPDT	15A	.250 QC (6.35)	THD Bushing/Plastic Button	—	850	CH322-ND	6.56	5.84	4.86	E19-00J
1C	DPDT	15A	.250 QC (6.35)	THD Bushing/Metal Button	—	850	CH324-ND	6.91	6.15	5.12	E19-00M
1D	DPDT	15A	.250 QC (6.35)	Long Lever	1.5 (38.10)	205	CH321-ND	7.26	6.46	5.38	E19-00H
1D	DPDT	15A	.250 QC (6.35)	Long Lever	1.75 (44.45)	130	CH325-ND	6.70	5.96	4.96	E19-50H
1E	DPDT	15A	.250 QC (6.35)	Long Roller	1.391 (35.33)	212	CH323-ND	9.18	8.16	6.80	E19-00K
1E	DPDT	15A	.250 QC (6.35)	Long Roller	1.645 (41.78)	150	CH326-ND	9.29	8.26	6.88	E19-50K
1C	DPDT	20A	.250 QC (6.35)	THD Bushing/Metal Button	—	850	CH329-ND	11.21	9.96	8.30	E20-00M
1E	DPDT	20A	.250 QC (6.35)	Long Roller	1.391 (35.33)	212	CH330-ND	12.47	11.09	9.24	E20-50K
1A	SPST-N/O	15A	.250 QC (6.35)	Button	—	425	CH500-ND	3.19	2.84	2.36	E13-01E
1D	SPST-N/O	15A	.250 QC (6.35)	Long Lever	1.5 (38.10)	100	CH501-ND	3.97	3.53	2.94	E13-01H
Brass Mounting Nut for Threaded Bushing							CH284-ND	.14	.12	.10	0012-0023
Knurled Dress Nut Brass for J/M E13/19/G13							CH651-ND	1.43	1.28	1.06	0012-0025
Hex Nut Nickel Plated for J/M E13/19/G13							CH652-ND	.16	.15	.12	0012-0028
Lock Washer for J/M E13/E19/G13							CH653-ND	.22	.20	.16	0012-0073
Subminiature — E61, E62 and E63 Series											
2A	SPDT	0.1A	.093 QC (2.36)	Plunger Only	—	90	CH380-ND	7.61	6.77	5.64	E63-00A
	SPDT	0.1A	.110 QC (2.36)	Plunger Only	—	90	CH554-ND	6.99	6.22	5.18	E63-30A
	SPDT	0.1A	Solder Eyelet	Plunger Only	—	90	CH383-ND	6.35	5.64	4.70	E63-10A
2B	SPDT	0.1A	.093 QC (2.36)	Lever Std. Ratio	.271 (6.88)	27	CH381-ND	8.32	7.40	6.16	E63-00H
	SPDT	0.1A	.093 QC (2.36)	Lever Std. Ratio	.396 (10.06)	9	CH384-ND	7.56	6.72	5.60	E63-50H
	SPDT	0.1A	Solder Eyelet	Long Lever	.271 (6.88)	27	CH551-ND	8.32	7.40	6.16	E63-10H
	SPDT	0.1A	Solder Eyelet	Long Lever	.396 (10.06)	9	CH557-ND	8.32	7.40	6.16	E63-60H
2C	SPDT	0.1A	Solder Eyelet	Roller Lever	.201 (5.11)	30	CH552-ND	8.10	7.20	6.00	E63-10K
	SPDT	0.1A	.093 QC (2.36)	Roller Lever	.201 (5.11)	30	CH382-ND	8.10	7.20	6.00	E63-00K
	SPDT	0.1A	.110 QC (2.79)	Roller Lever	.201 (5.11)	30	CH555-ND	8.10	7.20	6.00	E63-30K
	SPDT	0.1A	.110 QC (2.79)	Roller Lever	.326 (8.28)	10	CH558-ND	8.91	7.92	6.60	E63-80K
2D	SPDT	0.1A	.093 QC (2.36)	Sim. Roller Lever	.197 (5.0)	30	CH550-ND	7.80	6.94	5.78	E63-00R
2A	SPDT	5A	.093 QC (2.36)	Plunger Only	—	90	CH103-ND	3.32	2.96	2.46	E61-00A
	SPDT	5A	.110 QC (2.79)	Plunger Only	—	90	CH370-ND	3.65	3.24	2.70	E61-30A
	SPDT	5A	Solder Eyelet	Plunger Only	—	90	CH104-ND	3.32	2.96	2.46	E61-10A
2B	SPDT	5A	.093 QC (2.36)	Lever Std. Ratio	.271 (6.88)	27	CH105-ND	4.78	4.25	3.54	E61-00H
	SPDT	5A	.110 QC (2.79)	Lever Std. Ratio	.271 (6.88)	27	CH371-ND	4.78	4.25	3.54	E61-30H
	SPDT	5A	Solder Eyelet	Lever Std. Ratio	.271 (6.88)	27	CH106-ND	4.78	4.25	3.54	E61-10H
	SPDT	5A	.093 QC (2.36)	Lever Std. Ratio	.396 (10.06)	9	CH373-ND	4.78	4.25	3.54	E61-50H
2C	SPDT	5A	.093 QC (2.36)	Roller Std. Ratio	.201 (5.11)	30	CH107-ND	5.08	4.52	3.76	E61-00K
	SPDT	5A	Solder Eyelet	Roller Std. Ratio	.201 (5.11)	30	CH108-ND	5.08	4.52	3.76	E61-10K
	SPDT	5A	.110 QC (2.79)	Roller Lever	.201 (5.11)	30	CH372-ND	5.08	4.52	3.76	E61-30K
	SPDT	5A	.110 QC (2.79)	Roller Lever	.326 (8.28)	10	CH544-ND	5.08	4.52	3.76	E61-80K
	SPDT	5A	.093 QC (2.36)	Roller Lever	.326 (8.28)	10	CH374-ND	5.59	4.97	4.14	E61-50K
	SPDT	5A	Solder Eyelet	Roller Lever	.326 (8.28)	10	CH543-ND	5.08	4.52	3.76	E61-60K
2A	SPDT	10.1A	.093 QC (2.36)	Plunger Only	—	212	CH109-ND	3.75	3.34	2.78	E62-00A
	SPDT	10.1A	.110 QC (2.79)	Plunger Only	—	212	CH377-ND	4.13	3.68	3.06	E62-30A
	SPDT	10.1A	Solder Eyelet	Plunger Only	—	212	CH110-ND	3.75	3.34	2.78	E62-10A
2B	SPDT	10.1A	.093 QC (2.36)	Lever Std. Ratio	.271 (6.88)	56	CH111-ND	4.78	4.25	3.54	E62-00H
	SPDT	10.1A	Solder Eyelet	Lever Std. Ratio	.271 (6.88)	56	CH112-ND	4.78	4.25	3.54	E62-10H
2C	SPDT	10.1A	.093 QC (2.36)	Roller Std. Ratio	.201 (5.11)	65	CH113-ND	5.48	4.88	4.06	E62-00K
	SPDT	10.1A	Solder Eyelet	Roller Std. Ratio	.201 (5.11)	65	CH114-ND	5.48	4.88	4.06	E62-10K
	SPDT	10.1A	.110 QC (2.79)	Roller Lever	.201 (5.11)	65	CH378-ND	6.05	5.38	4.48	E62-30K
	SPDT	10.1A	.093 QC (2.36)	Roller Lever	.326 (8.28)	33	CH379-ND	5.48	4.88	4.06	E62-50K
2A	SPDT	10.1A	PC Mount	Plunger Only	—	212	CH545-ND	3.75	3.34	2.78	E62-50A
2B	SPDT	10.1A	.093 QC (2.36)	Long Lever	.396 (10.06)	20	CH546-ND	5.24	4.66	3.88	E62-50H
	SPDT	10.1A	Solder Eyelet	Long Lever	.396 (10.06)	20	CH547-ND	4.78	4.25	3.54	E62-60H

(Continued)

Fig. 1 Series E13, E14, E19, E20, G13

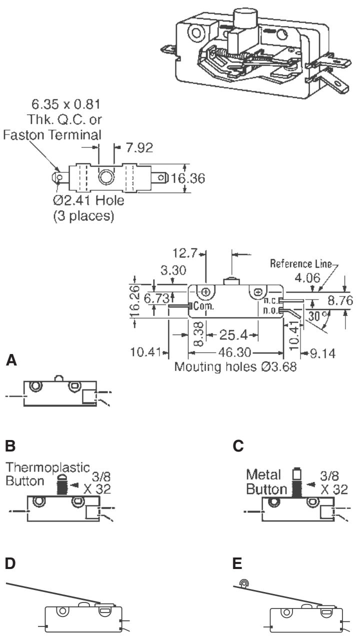

Ratings:
E13: 15A – 125/250VAC, 3/4 HP – 125VAC, 1-1/2 HP – 250VAC
E14: 25A – 125/250VAC, 1 HP – 125VAC, 2 HP – 250VAC
E19: 15A – 125/250VAC, 3/4 HP – 125VAC
E20: 20A – 125/250VAC, 1 HP – 125VAC
G13: 0.1A – 125VAC. Gold crosspoint contacts.

Fig. 2 Series E61, E62, E63

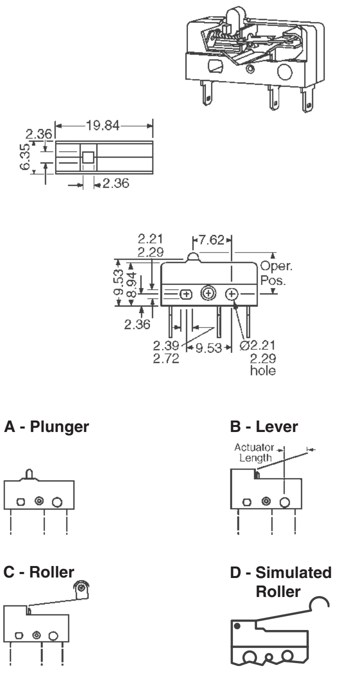

Ratings: E61: 5A – 125/250VAC
E62: 10.1A – 125/250VAC, 1/4 HP – 125VAC
E63: .1A – 125VAC, .25A – 30VDC

Snap and Lever Type Switches *(Cont.)*

Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each 1	10	50	Cherry Part No.
2C	SPDT	10.1A	Solder Eyelet	Roller Lever	.326 (8.28)	33	CH548-ND	6.05	5.38	4.48	E62-60K
	SPDT	10.1A	.110 QC (2.79)	Long Lever	.396 (10.06)	20	CH549-ND	5.24	4.66	3.88	E62-80H
Replacement Actuator Lever, 2.163" (54.94mm) Long							CH654-ND	.24	.22	.18	0014-0134
Subminiature Snap Switches — DA3 Series											
3A	SPDT	0.1A	.110 QC (2.79)	Plunger Only	—	90	CH285-ND	3.73	3.32	2.76	DA3C-B1AA
	SPDT	0.1A	.093 QC (2.36)	Plunger Only	—	90	CH140-ND	3.65	3.24	2.70	DA3C-F1AA
	SPDT	0.1A	Solder Eyelet	Plunger Only	—	90	CH141-ND	2.97	2.64	2.20	DA3C-D1AA
	SPDT	0.1A	PC Mount	Plunger Only	—	90	CH287-ND	4.70	4.18	3.48	DA3C-H1AA
3B	SPDT	0.1A	.093 QC (2.36)	Lever Std. Ratio	.271 (6.88)	27	CH142-ND	5.51	4.90	4.08	DA3C-F1LB
	SPDT	0.1A	Solder Eyelet	Lever Std. Ratio	.271 (6.88)	27	CH143-ND	5.75	5.12	4.26	DA3C-D1LB
	SPDT	0.1A	.110 QC (2.79)	Lever - Standard Ratio	.271 (6.88)	27	CH599-ND	5.75	5.12	4.26	DA3C-B1LB
	SPDT	0.1A	Solder Eyelet	Lever - High Ratio	.396 (10.06)	9	CH602-ND	5.75	5.12	4.26	DA3C-D1MB
3C	SPDT	0.1A	.093 QC (2.36)	Roller Std. Ratio	.201 (5.11)	30	CH144-ND	5.94	5.28	4.40	DA3C-F1RB
	SPDT	0.1A	Solder Eyelet	Roller Std. Ratio	.201 (5.11)	30	CH145-ND	5.94	5.28	4.40	DA3C-D1RB
Replacement Actuator Lever, 3.066" (77.88mm) Extra Long							CH656-ND	.27	.24	.20	0014-5519
Panel Mount Pushbutton — E68, E69, E78, E79 and F79 Series											
4A	SPDT	0.1A	.187 QC (4.75)	Momentary	.845 (21.46)	425	CH386-ND	5.48	4.88	4.06	E68-00A
4B	SPDT	0.1A	.187 QC (4.75)	Momentary Cheat Interlock	.730 (18.54)	385	CH387-ND	5.78	5.14	4.28	E68-30A
4C	SPDT	0.1A	.187 QC (4.75)	Short Button Mom.	.420 (10.67)	425	CH388-ND	5.94	5.28	4.40	E68-40A
4D	SPDT	0.1A	.187 QC (4.75)	Auxiliary Pushbutton	.4 (10.16)	425	CH560-ND	6.70	5.96	4.96	E68-50A
4A	SPDT	10A	.187 QC (4.75)	Momentary	.875 (22.23)	425	CH154-ND	3.86	3.44	2.86	E69-00A
4A	SPDT	10A	.187 QC (4.75)	Momentary	.825 (20.96)	425	CH561-ND	5.89	5.24	4.36	E69-00AA
4B	SPDT	10A	.187 QC (4.75)	Push-Pull (Reset)	.9 (22.86)	285	CH562-ND	4.24	3.77	3.14	E69-20A
4B	SPDT	10A	.187 QC (4.75)	Momentary Cheat Interlock	.980 (24.89)	425/285	CH155-ND	4.59	4.08	3.40	E69-30A
4C	SPDT	10A	.187 QC (4.75)	Short Button Momentary	.450 (11.43)	425	CH156-ND	3.86	3.44	2.86	E69-40A
4C	SPDT	10A	.187 QC (4.75)	Short Button Momentary	.4 (10.16)	425	CH563-ND	6.05	5.38	4.48	E69-40AA
4B	DPDT	0.1A	.187 QC (4.75)	Push-Pull (Reset)	.9 (22.86)	510	CH568-ND	12.07	10.73	8.94	E78-20A
4A	DPDT	10A	.187 QC (4.75)	Momentary	.875 (22.23)	680	CH157-ND	6.67	5.93	4.94	E79-00A
4A	DPDT	10A	.187 QC (4.75)	Momentary Cheat Interlock	.71 (18.03)	757	CH571-ND	6.97	6.20	5.16	F79-30A
4B	DPDT	10A	.187 QC (4.75)	Push-Pull (Reset)	.920 (23.37)	510	CH392-ND	7.34	6.53	5.44	E79-20A
4B	DPDT	10A	.187 QC (4.75)	Momentary Cheat Interlock	.980 (24.89)	757/567	CH158-ND	8.91	7.92	6.60	E79-30A
Water and Dust Sealed — E72 and E73 Series											
5A	SPDT	0.1A	10" Wires	Roller	.858 (21.79)	25	CH566-ND	18.87	16.78	13.98	E73-40KT
5B	SPDT	10A	10" Wires	Lever	.858 (21.79)	67	CH391-ND	11.64	10.35	8.62	E72-40HT
Internationally Approved Subminiature — DB1 Series											
6	SPDT	5A	Solder	Plunger Only	—	150	CH288-ND	1.76	1.56	1.30	DB1C-A1AA
6	SPDT	5A	PCB Pin	Plunger Only	—	150	CH289-ND	1.76	1.56	1.30	DB1C-C1AA
Replacement Actuator Simulated Roller Lever, SC Suffix							CH671-ND	.19	.17	.14	0614-1238
Line Interrupt Switches — F8											
7	SPST	0.1A	.250 QC (6.35)	Barrier	—	866	CH309-ND	16.58	14.74	12.28	F83A-B120
	SPST	10A	.187 QC (4.75)	Plunger Only	—	866	CH303-ND	10.91	9.70	8.08	F81A-A110
	SPST	10A	.250 QC (6.35)	Plunger Only	—	866	CH304-ND	12.02	10.68	8.90	F81A-A120
	SPST	10A	.187 QC (4.75)	Barrier	—	866	CH305-ND	11.21	9.96	8.30	F81A-B110
	SPST	10A	.250 QC (6.35)	Barrier	—	866	CH306-ND	11.21	9.96	8.30	F81A-B120
	SPST/SPDT	10A	.250 QC (6.35)	Plunger Only	.238 (6.05)	866	CH626-ND	12.04	10.71	8.92	F81J-A120
	SPST	16A	.250 QC (6.35)	Plunger Only	—	866	CH307-ND	12.45	11.07	9.22	F82A-A120
Light Force and Standard Force Switches — E Series											
8A	SPDT	0.1 A	.187 QC (4.75)	Plunger Only		75	CH331-ND	4.10	3.65	3.04	E21-00A
8B	SPDT	0.1 A	.187 QC (4.75)	Long Lever	1.400 (35.56)	35	CH333-ND	5.67	5.04	4.20	E21-50H
8C	SPDT	0.1 A	.187 QC (4.75)	Light Force - Roller	1.34 (34.04)	8	CH507-ND	7.32	6.51	5.42	E21-50KX
8C	SPDT	0.1 A	.187 QC (4.75)	Light Force - Roller	1.516 (38.50)	5	CH511-ND	6.70	5.96	4.96	E21-75KX
8C	SPDT	0.1 A	.187 QC (4.75)	Long Roller	1.340 (34.04)	35	CH334-ND	7.18	6.39	5.32	E21-50K
8D	SPDT	0.1 A	.187 QC (4.75)	Short Roller	.810 (20.57)	75	CH332-ND	6.16	5.48	4.56	E21-00K
8E	SPDT	0.1 A	.187 QC (4.75)	Light Force - Plastic Lever	1.34 (34.04)	8	CH508-ND	6.67	5.93	4.94	E21-50NX
8A	SPDT	3A	.187 QC (4.75)	Light Force - Plunger Only	—	15	CH335-ND	3.35	2.98	2.48	E22-00AX
8B	SPDT	3A	.187 QC (4.75)	Light Force - Short Lever	.865 (21.97)	15	CH514-ND	4.37	3.89	3.24	E22-00HX
	SPDT	3A	.187 QC (4.75)	Light Force - Long Lever	1.400 (35.56)	8	CH337-ND	3.75	3.34	2.78	E22-50HX
	SPDT	3A	.187 QC (4.75)	Long Lever	1.400 (35.56)	35	CH338-ND	3.83	3.41	2.84	E22-50H
	SPDT	3A	.187 QC (4.75)	Long Lever	2.757 (70.03)	4	CH340-ND	3.75	3.34	2.78	E22-55HX
	SPDT	3A	.187 QC (4.75)	Long Lever	2.932 (74.47)	2	CH341-ND	3.92	3.48	2.90	E22-85HX
8C	SPDT	3A	.187 QC (4.75)	Std. Force - Roller	1.516 (38.50)	25	CH516-ND	4.51	4.01	3.34	E22-50KL
	SPDT	3A	.187 QC (4.75)	Long Roller	1.340 (34.04)	35	CH339-ND	4.10	3.65	3.04	E22-50K
8D	SPDT	3A	.187 QC (4.75)	Short Roller	.810 (20.57)	75	CH336-ND	4.51	4.01	3.34	E22-00K
8A	SPDT	5A	.187 QC (4.75)	Plunger Only	—	45	CH342-ND	3.05	2.72	2.26	E23-00AX
	SPDT	5A	.187 QC (4.75)	Plunger Only	—	170	CH343-ND	3.13	2.79	2.32	E23-00A

(Continued)

Fig. 3 Series DA3

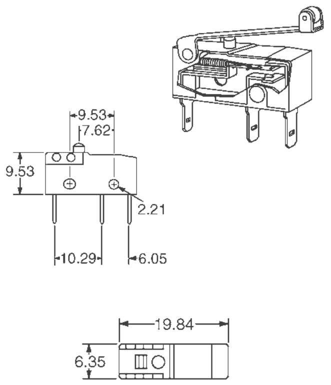

A - Plunger

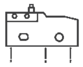

B - Lever

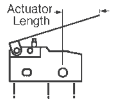

C - Roller

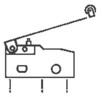

Ratings:
DA3: 0.1 Amps 125VAC.

Fig. 4

Series E68,E69

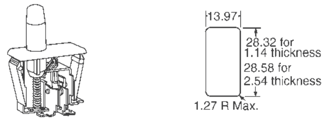

Series E78, E79, F79

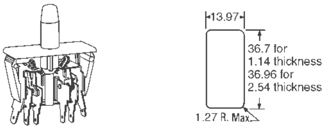

A - Momentary

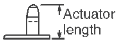

B - Cheat Interlock

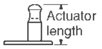

(Pulled Out)

C - Short Button Momentary

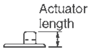

D - Pushbutton

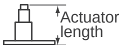

Ratings:
E69: 10 Amps 125/250VAC, 1/3 H.P., 125/250VAC
E68/E78: 0.1 Amps 125VAC
E79/F79: 10 Amps 125/250VAC, 1/3 H.P., 125/250VAC

Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each			Cherry Part No.
								1	10	50	
8B	SPDT	5A	.187 QC (4.75)	Std. Force - Long Lever	1.40 (35.56)	86	CH519-ND	3.54	3.15	2.62	E23-50H
	SPDT	5A	.187 QC (4.75)	Light Force - Long Lever	2.757 (70.03)	10	CH347-ND	3.86	3.44	2.86	E23-55HX
8C	SPDT	5A	.187 QC (4.75)	Long Roller	1.340 (34.04)	86	CH346-ND	4.19	3.72	3.10	E23-50K
8B	SPDT	5A	.187 QC (4.75)	Light Force - Long Lever	1.58 (40.13)	14	CH522-ND	4.24	3.77	3.14	E23-75HX
8D	SPDT	5A	.187 QC (4.75)	Short Roller	.810 (20.57)	170	CH344-ND	4.19	3.72	3.10	E23-00K
8E	SPDT	5A	.187 QC (4.75)	Std. Force - Plastic Lever	1.382 (35.10)	86	CH521-ND	3.83	3.41	2.84	E23-50N
8F	SPDT	5A	.187 QC (4.75)	Plastic Sim. Roller	1.289 (32.74)	22	CH524-ND	3.75	3.34	2.78	E23-90N
8A	SPDT	10A	.187 QC (4.75)	Light Force - Button	—	75	CH525-ND	3.43	3.05	2.54	E33-00AX
	SPDT	10A	.187 QC (4.75)	Plunger Only	—	285	CH349-ND	3.00	2.67	2.22	E33-00A
8A	SPDT	10A	Screw Term.	Light Force - Button	—	75	CH526-ND	7.24	6.44	5.36	E33-10A
	SPDT	10A	Solder Term.		—	75	CH527-ND	3.27	2.91	2.42	E33-20A
8B	SPDT	10A	.187 QC (4.75)	Std. Force - Long Lever	1.58 (40.13)	86	CH528-ND	3.40	3.03	2.52	E33-50HL
	SPDT	10A	.187 QC (4.75)	Long Lever	1.400 (35.56)	144	CH351-ND	3.13	2.79	2.32	E33-50H
	SPDT	10A	.187 QC (4.75)	Long Lever	2.757 (70.03)	17	CH353-ND	3.67	3.27	2.72	E33-55HX
	SPDT	10A	.187 QC (4.75)	Long Lever	2.932 (74.47)	10	CH355-ND	3.83	3.41	2.84	E33-85HX
8C	SPDT	10A	.187 QC (4.75)	Std. Force - Roller	1.516 (38.50)	86	CH529-ND	4.37	3.89	3.24	E33-50KL
	SPDT	10A	.187 QC (4.75)	Light Force - Roller	1.34 (34.04)	37	CH530-ND	4.67	4.16	3.46	E33-50KX
	SPDT	10A	.187 QC (4.75)	Long Roller	1.340 (34.04)	144	CH352-ND	3.62	3.22	2.68	E33-50K
	SPDT	10A	.187 QC (4.75)	Long Lever	1.580 (40.13)	22	CH354-ND	3.35	2.98	2.48	E33-75HX
8D	SPDT	10A	.187 QC (4.75)	Short Roller	.810 (20.57)	285	CH350-ND	3.51	3.12	2.60	E33-00K
8A	SPDT	15A	.187 QC (4.75)	Plunger Only	—	400	CH356-ND	3.43	3.05	2.54	E34-00A
	SPDT	15A	Solder Term	Std. Force - Button	—	400	CH534-ND	2.84	2.52	2.10	E34-20A
8B	SPDT	15A	.187 QC (4.75)	Std. Force - Lever	1.58 (40.13)	120	CH535-ND	3.70	3.29	2.74	E34-50HL
	SPDT	15A	.187 QC (4.75)	Light Force - Long Lever	1.400 (35.56)	50	CH358-ND	3.81	3.39	2.82	E34-50HX
	SPDT	15A	.187 QC (4.75)	Light Force - Long Lever	2.757 (70.03)	22	CH362-ND	3.86	3.44	2.86	E34-55HX
	SPDT	15A	.187 QC (4.75)	Light Force - Long Lever	2.932 (74.47)	13	CH363-ND	4.05	3.60	3.00	E34-85HX
8C	SPDT	15A	.187 QC (4.75)	Long Roller	1.340 (34.04)	200	CH360-ND	3.97	3.53	2.94	E34-50K
8D	SPDT	15A	.187 QC (4.75)	Light Force - Roller	.810 (20.57)	100	CH533-ND	4.51	4.01	3.34	E34-00KX
	SPDT	15A	.187 QC (4.75)	Short Roller	.810 (20.57)	400	CH357-ND	4.43	3.94	3.28	E34-00K
8E	SPDT	15A	.187 QC (4.75)	Plastic Lever	1.382 (35.10)	200	CH361-ND	3.65	3.24	2.70	E34-50N
Standard Size Insulator for E34 Series							CH663-ND	.27	.24	.20	0015-0051
Small Size Insulator for E62 Series							CH664-ND	.41	.36	.30	0015-0052
Large Black Plastic Insulator for E34 Series							CH665-ND	.27	.24	.20	0015-0054
Miniature International — D4 Series											
9A	SPDT	0.1A	.187 QC (4.75)	Button	—	75	CH115-ND	4.54	4.04	3.36	D41C-R1AA
	SPDT	0.1A	.187 QC (4.75)	Button	—	15	CH119-ND	4.78	4.25	3.54	D41L-R1AA
9B	SPDT	0.1A	.187 QC (4.75)	Lever Std. Ratio	1.400 (35.56)	35	CH297-ND	4.97	4.42	3.68	D41C-R1LD
	SPDT	0.1A	.187 QC (4.75)	Lever High Ratio	2.93 (74.47)	2	CH118-ND	4.97	4.42	3.68	D41L-R1XL
9C	SPDT	0.1A	.187 QC (4.75)	Roller Std. Ratio	.810 (20.57)	75	CH117-ND	5.18	4.61	3.84	D41C-R1RA
	SPDT	0.1A	.187 QC (4.75)	Roller Std. Ratio	1.340 (34.04)	35	CH298-ND	5.18	4.61	3.84	D41C-R1RD
9A	SPDT	3A	.187 QC (4.75)	Button	—	75	CH120-ND	2.48	2.21	1.84	D42C-R1AA
	SPDT	3A	.187 QC (4.75)	Button	—	15	CH124-ND	2.92	2.60	2.16	D42L-R1AA
9B	SPDT	3A	.187 QC (4.75)	Lever High Ratio	2.93 (74.47)	2	CH123-ND	4.40	3.92	3.26	D42L-R1XL
9C	SPDT	3A	.187 QC (4.75)	Roller Std. Ratio	.810 (20.57)	75	CH122-ND	3.43	3.05	2.54	D42C-R1RA
9A	SPDT	5A	.187 QC (4.75)	Button	—	170	CH125-ND	2.46	2.19	1.82	D43C-R1AA
	SPDT	5A	.187 QC (4.75)	Button	—	45	CH129-ND	2.78	2.48	2.06	D43L-R1AA
9C	SPDT	5A	.187 QC (4.75)	Roller Std. Ratio	.810 (20.57)	170	CH127-ND	3.56	3.17	2.64	D43C-R1RA
9A	SPDT	10A	.187 QC (4.75)	Button	—	285	CH130-ND	2.48	2.21	1.84	D44C-R1AA
	SPDT	10A	.187 QC (4.75)	Button	—	75	CH134-ND	2.73	2.43	2.02	D44L-R1AA
9B	SPDT	10A	.187 QC (4.75)	Lever Std. Ratio	.865 (21.97)	285	CH131-ND	2.97	2.64	2.20	D44C-R1LA
	SPDT	10A	.187 QC (4.75)	Lever Std. Ratio	1.400 (35.56)	35	CH299-ND	3.00	2.67	2.22	D44L-R1LD
	SPDT	10A	.187 QC (4.75)	Lever High Ratio	2.93 (74.47)	10	CH133-ND	3.24	2.88	2.40	D44L-R1ML
9C	SPDT	10A	.187 QC (4.75)	Roller Std. Ratio	.810 (20.57)	285	CH132-ND	3.27	2.91	2.42	D44C-R1RA
	SPDT	10A	.187 QC (4.75)	Roller Std. Ratio	.810 (20.57)	75	CH301-ND	3.62	3.22	2.68	D44L-R1RA
9A	SPDT	15A	.187 QC (4.75)	Button	—	400	CH135-ND	2.97	2.64	2.20	D45C-R1AA
	SPDT	15A	.187 QC (4.75)	Button	—	100	CH139-ND	2.97	2.64	2.20	D45L-R1AA
9B	SPDT	15A	.187 QC (4.75)	Lever Std. Ratio	.865 (21.97)	400	CH136-ND	3.27	2.91	2.42	D45C-R1LA
	SPDT	15A	.187 QC (4.75)	Lever High Ratio	2.93 (74.47)	13	CH138-ND	3.13	2.79	2.32	D45L-R1ML
	SPDT	15A	.187 QC (4.75)	Lever Std. Ratio	2.93 (74.47)	17	CH302-ND	2.97	2.64	2.20	D45L-R1LL
9C	SPDT	15A	.187 QC (4.75)	Roller Std. Ratio	.810 (20.57)	400	CH137-ND	3.54	3.15	2.62	D45C-R1RA
Miniature International — D4 Series — U.S. Version											
9B	SPDT	0.1A	.187 QC (4.75)	Alum. Lever-Standard Ratio	1.4 (35.56)	8	CH578-ND	4.97	4.42	3.68	D41L-R1YD
9C	SPDT	0.1A	.187 QC (4.75)	Roller - Standard Ratio	.810 (20.57)	15	CH576-ND	5.70	5.07	4.22	D41L-R1RA
	SPDT	0.1A	.187 QC (4.75)	Roller - Standard Ratio	1.340 (34.04)	8	CH577-ND	5.70	5.07	4.22	D41L-R1RD
9B	SPDT	3A	.187 QC (4.75)	Lever - Standard Ratio	1.4 (35.56)	35	CH579-ND	2.86	2.55	2.12	D42C-R1LD

(Continued)

Fig. 5 **Series E72, E73**

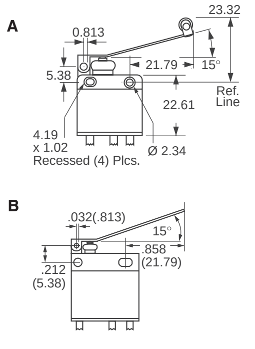

Fig. 6 **Series DB**

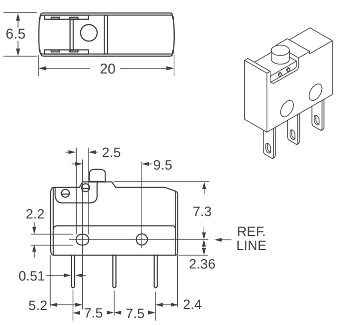

Fig. 7 **Series F80**

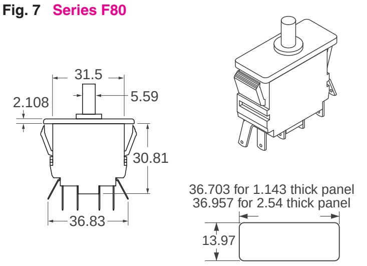

Fig. 8 **Series E**

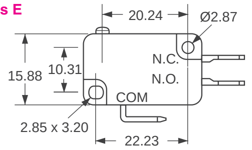

A - Plunger **B - Lever**

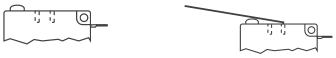

C - Long Roller **D - Short Roller**

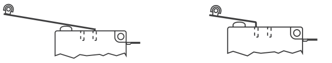

E - Thermoplastic Lever **F - Simulated Thermo-plastic Roller**

Ratings:
E21: .1 Amp 125VAC, Gold contacts
E22: 3 Amps 250VAC
E23: 5 Amps 250VAC
E33: 10 Amps 250VAC
E34: 15 Amps 250VAC, UL94HB

I

Fig.	Circuitry	Current	Terminal Inch (mm)	Actuator	Actuator Length Inch (mm)	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each			Cherry Part No.
								1	10	50	
9B	SPDT	3A	.187 QC (4.75)	Alum. Lever-Standard Ratio	1.4 (35.56)	8	CH581-ND	4.40	3.92	3.26	D42L-R1YD
	SPDT	3A	.187 QC (4.75)	Alum. Lever-Standard Ratio	2.757 (70.03)	3.5	CH582-ND	4.51	4.01	3.34	D42L-R1YL
9C	SPDT	3A	.187 QC (4.75)	Roller - Standard Ratio	1.340 (34.04)	75	CH580-ND	3.56	3.17	2.64	D42C-R1RD
9B	SPDT	5A	.187 QC (4.75)	Lever - High Ratio	1.580 (40.13)	51	CH583-ND	3.13	2.79	2.32	D43C-R1MD
	SPDT	5A	.187 QC (4.75)	Lever - High Ratio	1.580 (40.13)	20	CH587-ND	3.35	2.98	2.48	D43L-R1MD
9C	SPDT	5A	.187 QC (4.75)	Roller - Standard Ratio	1.340 (34.04)	86	CH584-ND	3.56	3.17	2.64	D43C-R1RD
9B	SPDT	10A	.187 QC (4.75)	Lever - Standard Ratio	1.4 (35.56)	144	CH589-ND	2.97	2.64	2.20	D44C-R1LD
9C	SPDT	10A	.187 QC (4.75)	Roller - Standard Ratio	1.340 (34.04)	144	CH590-ND	3.27	2.91	2.42	D44C-R1RD
	SPDT	10A	.187 QC (4.75)	Roller - Standard Ratio	1.340 (34.04)	37	CH593-ND	3.59	3.20	2.66	D44L-R1RD
9A	SPDT	15A	.250 QC (6.35)	Button	—	400	CH594-ND	2.92	2.60	2.16	D45C-V1AA
9B	SPDT	15A	.187 QC (4.75)	Lever - Standard Ratio	.865 (21.97)	100	CH595-ND	3.13	2.79	2.32	D45L-R1LA
	SPDT	15A	.187 QC (4.75)	Lever - Standard Ratio	1.4 (35.56)	35	CH596-ND	3.46	3.08	2.56	D45L-R1LD
	SPDT	15A	.187 QC (4.75)	Lever - High Ratio	1.580 (40.13)	30	CH597-ND	3.13	2.79	2.32	D45L-R1MD

Fig. 9 **Series D4**

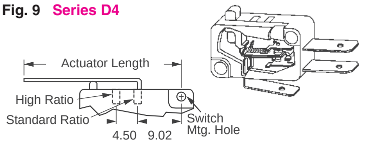

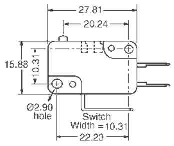

A - Plunger

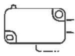

B - Lever

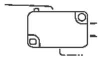

C - Roller

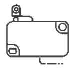

Ratings: 187 QC terminals.
D41: .1 Amps 125VAC, Gold crosspoint contacts
D42: 3 Amps 125/250VAC
D43: 5 Amps, 1/4 H.P., 125/250VAC
D44: 10 Amps, 1.2 H.P., 125/250VAC
D45: 15 Amps, 1/2 H.P., 125/250VAC.

Fig.	Circuitry	Cur-rent	Terminal Inch (mm)	Actuator	Oper. Force (Max. gms.)	Digi-Key Part No.	Price Each			Cherry Part No.
							1	10	50	
High Performance Miniature Snap Switches — K Series										
10	SPDT	50mA	.187 (4.75) QC Straight	Button - Standard Temp.	75	CH629-ND	3.92	3.48	2.90	KWBA-QACA
				Button - High Temp.	75	CH630-ND	4.67	4.16	3.46	KWBB-QACA
		3A	.187 (4.75) QC Straight	Button - Standard Temp.	25	CH631-ND	2.94	2.62	2.18	KWEA-QACA
				Button - High Temp.	75	CH634-ND	3.48	3.10	2.58	KWFB-QACA
		5A	.187 (4.75) QC Straight	Button - Standard Temp.	150	CH637-ND	2.46	2.19	1.82	KWHA-QACA

Fig. 10 **Series K**

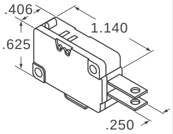

Features: Centrally located common terminal, wiping contact action, standard temperature ratings up to 150° C

Flammability Ratings: UL94V-O

Electrical Life: 100,000 cycles

Temperature Ratings: • Standard Temperature:-40° ~ 85°C • High Temperature: -40° ~ 150°C

UL and CUL Ratings: KWB: 50mA, 28VDC **KWE/KWF:** 3 Amp, 125/250VAC, 1/10 HP **KWH:** 5 Amps, 1/4 HP, 125/250VAC

CHERRY

Heavy Duty Snap Action Switches

Fig.	Operating Force (oz)	Switch Current (A)	Actuator Type	Actuator Length (mm)	Terminal Type	Digi-Key Part No.	Price Each			Cherry Part No.
							1	10	50	
1	8.8	15	Button	—	Screw	CH814-ND	6.63	5.31	4.42	GPTCNA01
	8.8	15	Button	—	Solder	CH815-ND	6.63	5.31	4.42	GPSCNA01
2	4.9	15	Lever	49.6	Screw	CH816-ND	9.00	7.20	6.00	GPTCLR01
	4.9	15	Lever	49.6	Solder	CH817-ND	9.00	7.20	6.00	GPSCLR01
3	4.9	15	Roller	46	Screw	CH818-ND	9.24	7.40	6.16	GPTCRR01
	4.9	15	Roller	46	Solder	CH819-ND	9.24	7.40	6.16	GPSCRR01
4	8.8	15	Long Button	—	Screw	CH820-ND	9.36	7.49	6.24	GPTCND01
	8.8	15	Long Button	—	Solder	CH821-ND	9.36	7.49	6.24	GPSCND01
5	8.8	15	Button	—	Screw	CH822-ND	8.55	6.84	5.70	GPTCNC01
	8.8	15	Button	—	Solder	CH823-ND	8.55	6.84	5.70	GPSCNC01
6	8.8	15	Button	—	Solder	CH825-ND	13.29	10.64	8.86	GPSCNH01
7	8.8	15	Panel Roller	—	Screw	CH826-ND	19.53	15.63	13.02	GPTCRH01
	8.8	15	Panel Roller	—	Solder	CH827-ND	19.53	15.63	13.02	GPSCRH01
8	8.8	15	Panel Roller	—	Screw	CH828-ND	19.53	15.63	13.02	GPTCRH02
	8.8	15	Panel Roller	—	Solder	CH829-ND	19.53	15.63	13.02	GPSCRH02
9	2.4	15	Lever	63.5	Screw	CH830-ND	8.10	6.48	5.40	GPTCLS01
	2.4	15	Lever	63.5	Solder	CH831-ND	8.10	6.48	5.40	GPSCLS01
	3.1	15	Lever	42	Screw	CH832-ND	7.89	6.32	5.26	GPTCLS02
	3.1	15	Lever	42	Solder	CH833-ND	7.89	6.32	5.26	GPSCLS02
10	3.5	15	Roller	48.5	Screw	CH834-ND	10.14	8.12	6.76	GPTCRS01
	3.5	15	Roller	48.5	Solder	CH835-ND	10.14	8.12	6.76	GPSCRS01
	5.6	15	Roller	26.6	Screw	CH836-ND	10.14	8.12	6.76	GPTCRM01
	5.6	15	Roller	26.6	Solder	CH837-ND	10.14	8.12	6.76	GPSCRM01
11	5.9	15	Hinged Roller	31.9	Screw	CH838-ND	12.66	10.13	8.44	GPTCRG01
	5.9	15	Hinged Roller	31.9	Solder	CH839-ND	13.38	10.71	8.92	GPSCRG01

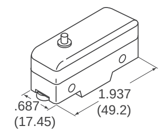

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

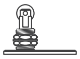

Fig. 8

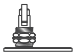

Fig. 9

Fig. 10

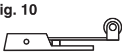

Fig. 11

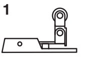

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molex Waldom ELECTRONICS

Switch Connector and Terminal

Switch Connector:
• 94V-2 Nylon • U.L. Approved • Accepts 14-28 AWG • No. of Circuits: 3 • Maximum Current Rating: 10 • Maximum Voltage Rating: 250 • Mounting Ears: No • Maximum Panel Thickness: N/A • Eng. No.: 2191

WM2553-ND............ **$.62**/1; **$5.51**/10; **$36.76**/100

Terminal:
Without Detent, Loose Form

WM2514-ND............ **$.20**/1; **$1.58**/10; **$13.20**/100

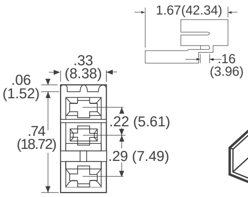

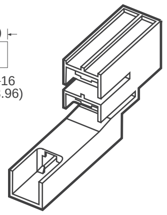

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tyco Electronics AMP

AMPIP Post-Insulation Pods

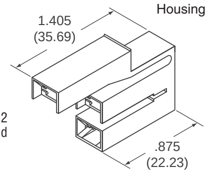

Straight Style .187" Series Receptacle Housings: • UL94V-2 Flammability Rating • Nylon • Natural color • UL/CSA Approved • Insulation Diameter Maximum: .170" (4.32mm) • 3 circuits

A24758-ND.................................... **$4.20**/10; **$36.93**/100

Fastons:
A27696CT-ND† 20-24AWG, Brass, Fit tab .020" (.51mm)......................... **$7.51**/100; **$31.29**/500
A27700CT-ND† 16-20AWG, Brass, Fit tab .020" (.51mm)......................... **$6.41**/100; **$26.69**/500
† Cut Tape

Cannon

ITT Industries
Engineered for life

Snap-acting Switches

A SERIES

FEATURES: • Low cost, high performance • Long electrical life • Single and double pole **TYPICAL APPLICATIONS:** • Enclosure equipment • Garage door openers • Vending machines **SPECIFICATIONS:** • Contact Rating: 15A @ 277VAC • Electrical Life: 200,000 cycles at 15A @ 250VAC • Insulation Resistance: 1,000MΩ minimum • Dielectric Strength: 1,000Vrms minimum @ sea level • Operating Temperature: -55°C ~ 85°C • Operating Force: 20oz. maximum SP models, 40oz. maximum DP models at actuator button • Switch Housing: Heat resistant phenolic (UL 94V-0)

HB SERIES

FEATURES: • Low differential travel, high repeatability • Single and double pole circuitry • Sealed actuator and case **TYPICAL APPLICATIONS:** • Thermostats • Motors • Industrial controls **SPECIFICATIONS:** • Contact Rating: 20A @ 480VAC • Electrical Life: 150,000 cycles at 20A @ 250VAC • Insulation Resistance: 1,000MΩ minimum • Dielectric Strength: 1,500Vrms minimum @ sea level • Operating Temperature: -55°C ~ 150°C • Switch Housing: Heat resistant/electrical grade phenolic

LC SERIES

FEATURES: • Compact design • Long life and high electrical capacity **TYPICAL APPLICATIONS:** • Motorized equipment • Sump pump • Thermostatic controls **SPECIFICATIONS:** • Contact Rating: 1A @ 125VAC • Electrical Life: 100,000 cycles at 1A @ 125VAC • Insulation Resistance: 1,000MΩ minimum • Dielectric Strength: 1,000Vrms minimum @ sea level • Operating Temperature: -25°C ~ 85°C • Switch Housing: Thermoplastic polyester (UL 94V-0) • Terminals: Copper alloy • Terminal Seal: Epoxy

MM SERIES

FEATURES: • Low level and power switching • Long electrical and mechanical life • Increased overtravel • Reliable snap-acting mechanism **TYPICAL APPLICATIONS:** • Limited space constrains • Miniaturized military devices • Communication devices **SPECIFICATIONS:** • Contact Rating: 7A @ 250VAC • Electrical Life: 100,000 cycles at full rated load • Insulation Resistance: 1,000MΩ minimum • Dielectric Strength: 1,000Vrms minimum @ sea level • Operating Temperature: -55°C ~ 135°C • Switch Housing: Heat resistant phenolic (UL 94V-0)

TF SERIES

FEATURES: • Broad range of operating forces • Wide variety of actuator styles • Quick connect terminations **TYPICAL APPLICATIONS:** • Motor controls • Thermostats • Portable tools **SPECIFICATIONS:** • Contact Rating: 11A @ 277VAC • Electrical Life: 300,000 cycles at 10A @ 250VAC • Insulation Resistance: 1,000MΩ minimum • Dielectric Strength: 1,500Vrms minimum @ sea level • Operating Temperature: -40°C ~ 85°C • Switch Housing: Thermoplastic (UL 94V-0)

TM SERIES

FEATURES: • Broad range of operating forces • Variety of actuator and terminal styles • Cost-effective solution **TYPICAL APPLICATIONS:** • Pumps and motors • White goods • Consumer appliances **SPECIFICATIONS:** • Contact Rating: 10A @ 250VAC • Electrical Life: 350,000 cycles at 10A @ 250VAC • Insulation Resistance: 1,000MΩ minimum • Dielectric Strength: 1,000Vrms minimum @ sea level • Operating Temperature: -55°C ~ 150°C • Switch Housing: Thermoplastic or general purpose phenolic (UL 94V-0)

Fig. 1

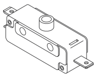

Fig. 2

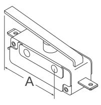

Fig. 3

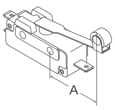

Fig. 4

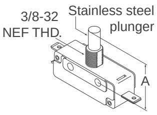

Requires HexNut 0633B

Fig. 5

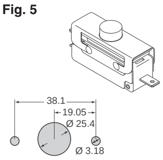

Fig. 6

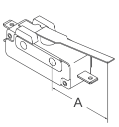

Fig. 7

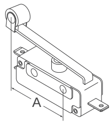

Fig. 8

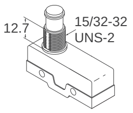

Hardware Included

Fig. 9

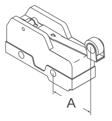

Fig. 10

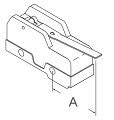

Fig. 11

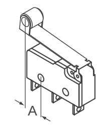

Fig. 12

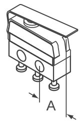

Fig. 13

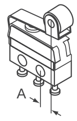

Fig. 14

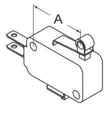

Fig. 15

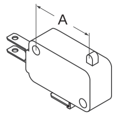

Fig. 16

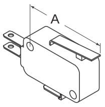

Fig. 17

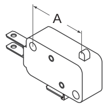

Fig. 18

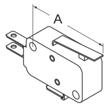

Fig. 19

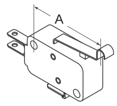

Fig.	Circuitry	Contact Rating (A)	Terminal	Dimension A (mm)	Operating Force (Max. gms)	Digi-Key Part No.	Price Each 1	25	100	250	ITT Industries Part No.
General Purpose - A Series											
1	SPDT	15	.250" QC	—	567	CKN1408-ND	3.31	2.65	2.10	1.66	ASKHC2P04AC
2	DPDT	15	.250" QC	41.1	510	CKN1409-ND	8.05	6.44	5.10	4.03	ADPDC2L04AC
3	SPDT	15	.250" QC	35.1	113	CKN1410-ND	5.66	4.53	3.59	2.84	ASKHC2A04AC
4	DPDT	15	.250" QC	20.6	850	CKN1411-ND	8.90	7.13	5.64	4.46	ADPDC2J04AC
4	SPDT	15	.250" QC	20.6	567	CKN1412-ND	4.84	3.87	3.07	2.42	ASKHC2J04AC
5	SPDT	15	.250" QC	—	567	CKN1413-ND	7.19	5.76	4.56	3.60	ASKHC2B14AC
5	SPDT	15	.250" QC	—	567	CKN1414-ND	7.19	5.76	4.56	3.60	ASKHC2BB4AC
6	DPDT	15	.250" QC	38.1	170	CKN1415-ND	8.05	6.44	5.10	4.03	ADPDC2T04AC
6	SPDT	15	.250" QC	38.1	113	CKN1416-ND	3.98	3.19	2.52	1.99	ASKHC2T04AC
6	SPST	15	.250" QC	38.1	113	CKN1417-ND	3.46	2.77	2.20	1.73	ASKHC2T04AY
7	DPDT	15	.250" QC	38.1	510	CKN1418-ND	9.03	7.23	5.72	4.52	ADPDC2W04AC
HexNut 3/8-32 NEF-2B THD						CKN1829-ND*	.31	.25	.20	.16	0633B
Precision - HB Series											
8	SPDT	20	6-32 Screw	—	370	CKN1419-ND	14.11	11.29	8.94	7.06	HBS2KCB4SJ055C
9		20	4-40 Screw	21.8	100	CKN1420-ND	11.69	9.36	7.41	5.85	HBS2KGB4SA011C
9		20	6-32 Screw	21.8	100	CKN1421-ND	11.90	9.53	7.54	5.96	HBS2KGB4SA055C
10		20	4-40 Screw	37.3	71	CKN1422-ND	11.20	8.96	7.10	5.60	HBS2KGB4ST011C
10		20	6-32 Screw	37.3	71	CKN1423-ND	11.42	9.14	7.23	5.71	HBS2KGB4ST055C
Subminiature Precision - LC Series											
11	SPDT	1	Solder	7.1	48	CKN1424-ND	6.61	5.29	4.19	3.31	LCGGX1A10EC
11		1	Left PC Pins	7.1	57	CKN1425-ND	7.53	6.03	4.77	3.77	LCGHF5A10LC
11		1	Right PC Pins	7.1	57	CKN1426-ND	7.53	6.03	4.77	3.77	LCGHF5A10RC
Mini Precision - MM Series											
12	SPDT	7	Solder Turret	13.5	170	CKN1427-ND	13.37	10.70	8.47	6.69	MMGGD1L2C
13		7	Solder Turret	6.9	115	CKN1428-ND	18.42	14.74	11.67	9.21	MMGGD1W0C
Miniature - TF Series											
14	SPDT	11	.187" QC	20.6	90	CKN1429-ND	8.69	6.96	5.51	4.35	TFCGV3VA105BC
14		11	.187" QC	34	45	CKN1430-ND	7.96	6.37	5.04	3.98	TFCGV3VA155BC
15		11	.187" QC	20.3	75	CKN1431-ND	7.10	5.68	4.50	3.55	TFCGV3VP005BC
16		11	.187" QC	35.6	40	CKN1432-ND	7.96	6.37	5.04	3.98	TFCGV3VT155BC
16		11	.187" QC	69.9	20	CKN1433-ND	8.02	6.42	5.08	4.01	TFCGV3VT185BC
Miniature - TM Series											
17	SPDT	10	.187" QC	20.3	75	CKN1434-ND	4.16	3.33	2.64	2.09	TMCGD6SP0040C
17		10	.250" QC	20.3	75	CKN1435-ND	4.16	3.33	2.64	2.09	TMCGD6SP004AC
18		10	.187" QC	35.6	45	CKN1436-ND	5.02	4.02	3.18	2.51	TMCGD6ST1540C
18		10	.187" QC	69.9	20	CKN1437-ND	5.05	4.04	3.20	2.53	TMCGD6ST1840C
18		10	.187" QC	56.4	17	CKN1438-ND	5.05	4.04	3.20	2.53	TMCGD6ST2740C
19		10	.187" QC	32.8	50	CKN1439-ND	5.02	4.02	3.18	2.51	TMCGD6ST1440C

***** RoHS Compliant**

Door Interlocks

ITT's door interlock switches feature a push/pull motion making these switches ideal for computer enclosures, panel builders, and industrial enclosures.

SPECIFICATIONS: • Contact Rating: 15A @ 125 and 250VAC • Electrical Life: 150,000 cycles at 15A @ 250VAC • Operating Temperature: -55°C ~ 150°C • **Material:** • Plunger: Stainless Steel • Tapped Plunger: 4-40 X .375 depth

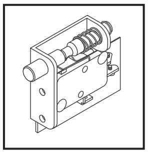

Description	Digi-Key Part No.	Price Each 1	10	100	ITT Industries Part No.
SPDT Screw Terminals	CKN1400-ND	18.31	15.82	13.32	11TL602
SPDT Screw Term., Tapped Plunger	CKN1401-ND	20.78	17.95	15.12	11TL604
SPDT Screw Term., Tapped Plunger	CKN1402-ND	21.54	18.61	15.67	12TL604
2-SPDT Screw Terminals	CKN1404-ND	26.86	23.20	19.54	23TL602
2-SPDT Screw Term., Tapped Plunger	CKN1405-ND	29.33	25.33	21.33	23TL604

ELECTROSWITCH
ELECTRONIC PRODUCTS

C2/3 Series Rotary Switches 1/4 Amp

The C2/C3 series offers an 8 position and a 12 position vertical PC board mountable design.

Specifications: Electrical: • Current and Voltage Ratings: 0.25 amp @ 28VDC **• Dielectric Strength:** 1,000VAC **Contact Resistance:** Average initial 30mΩ **Insulation Resistance:** In excess of 10,000MΩ **Mechanical: • Terminal and Contacts:** Brass with silver plate **• Insulation:** Polyester **• Index Life:** 25,000 cycles minimum **• Index Angle:** 30° **• Index Stop:** Adjustable **• Stop Strength:** 8 inches/pound minimum

Hardware: Mounting nut and lockwasher are shipped assembled.

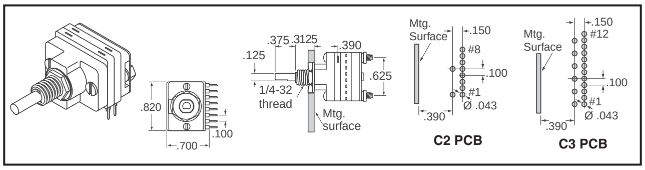

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
					C2 Series — 8 Pin				
1	2-8	1	1	No	451-1002-ND	18.15	14.85	13.20	C2P0108N-A
2	2-8	1	2	No	451-1004-ND	21.73	17.78	15.80	C2P0208N-A
2	2-4	2	1	No	451-1003-ND	18.15	14.85	13.20	C2P0204N-A
					C3 Series — 12 Pin				
1	2-12	1	1	No	451-1005-ND	18.15	14.85	13.20	C3P0112N-A
1	2-12	1	2	No	451-1007-ND	21.73	17.78	15.80	C3P0212N-A
2	2-6	2	1	No	451-1006-ND	18.15	14.85	13.20	C3P0206N-A
3	2-4	3	1	No	451-1008-ND	18.15	14.85	13.20	C3P0304N-A
4	2-6	2	2	No	451-1009-ND	21.73	17.78	15.80	C3P0406N-A
6	2-4	3	2	No	451-1010-ND	21.73	17.78	15.80	C3P0604N-A

C4 Series Rotary Switches 1/2 Amp

The C4 Series provides a versatile, fully enclosed design, that helps keep dirt and moisture out of the contact area while locking in lifetime lubricants.

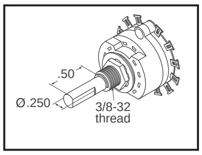

Specifications: Electrical: • Current and Voltage Rating: 0.5 amp @ 28VDC; 0.3 amp @ 125VAC **• Dielectric Strength:** 1,000VAC **Contact Resistance:** Average initial 3mΩ **• Insulation Resistance:** In excess of 10,000MΩ **Mechanical: • Terminals and Contacts:** Brass with silver-plate **• Index Life:** 25,000 cycles minimum **• Index Angle:** 30° Standard, 36°, 45°, 60°, and 90° available **• Index Stop:** Adjustable **• Stop Strength:** 25 inches/pound minimum **• Insulation:** Diallyl phthalate

Hardware: Mounting nut and lockwasher are shipped assembled.

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	2-12	1	1	No	451-1011-ND	15.40	12.60	11.20	C4D0112N-A
2	2-06	2	1	No	451-1012-ND	15.40	12.60	11.20	C4D0206N-A
2	2-12	1	2	No	451-1013-ND	19.80	16.20	14.40	C4D0212N-A
3	2-12	1	3	No	451-1015-ND	23.38	19.13	17.00	C4D0312N-A
3	2-04	3	1	No	451-1014-ND	16.23	13.28	11.80	C4D0304N-A
4	2-12	1	4	No	451-1017-ND	26.95	22.05	19.60	C4D0412N-A
4	2-06	2	2	No	451-1016-ND	19.80	16.20	14.40	C4D0406N-A
5	2-12	1	5	No	451-1018-ND	30.80	25.20	22.40	C4D0512N-A
6	2-06	2	3	No	451-1020-ND	23.38	19.13	17.00	C4D0606N-A
6	2-04	3	2	No	451-1019-ND	19.80	16.20	14.40	C4D0604N-A
6	2-12	1	6	No	451-1021-ND	34.38	28.13	25.00	C4D0612N-A
8	2-06	2	4	No	451-1022-ND	26.95	22.05	19.60	C4D0806N-A
10	2-06	2	5	No	451-1024-ND	30.80	25.20	22.40	C4D1006N-A
12	2-04	3	4	No	451-1025-ND	26.95	22.05	19.60	C4D1204N-A
15	2-04	3	5	No	451-1026-ND	30.80	25.20	22.40	C4D1504N-A

C5 Series Rotary Switches 1.0 Amp

The C5 Series offers a very economical and lightweight design. Standard features include 30° indexing up to 12 positions, solder lug terminals, and both internal and external seals for washability.

Specifications: Electrical: • Current and Voltage Rating: 1 amp @ 28VDC; 1 amp @ 125VAC **• Dielectric Strength:** 1,000VAC **• Contact Resistance:** Average initial 20mΩ • Insulation Resistance: in excess of 10,000MΩ **Mechanical: • Terminals and Contacts:** Brass with silver-plate **• Index Life:** 25,000 cycles minimum **• Index Angle:** Positive 30° **• Index Stop:** Adjustable **• Stop Strength:** 4.5 iches/pound minimum **• Insulation:** Polyester

Hardware: Mounting nut and lockwasher are shipped assembled.

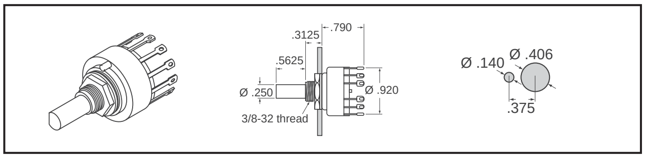

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
					C5 Series — Sealed Solder Lug				
1	2-12	1	1	No	451-1027-ND	8.25	6.75	6.00	C5P0112N-A
2	2-06	2	1	No	451-1028-ND	8.80	7.20	6.40	C5P0206N-A
3	2-04	3	1	No	451-1029-ND	9.35	7.65	6.80	C5P0304N-A
4	2-03	4	1	No	451-1030-ND	9.90	8.10	7.20	C5P0403N-A

C7 Series Rotary Switches 1.0 Amp

The C7 Series provides a fully enclosed, modular design that enables switching up to 24 positions. Our standard design offers 15° indexing and solder lug terminals.

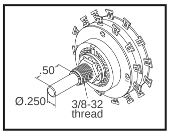

Specifications: Electrical: • Current and Voltage Rating: 1.0 amp @ 28VDC; 0.5 amp @ 125VAC **• Dielectric Strength:** 1,000VAC between current carrying parts and ground **• Contact Resistance:** Average Initial 3mΩ **• Insulation Resistance:** In excess of 10,000MΩ **Mechanical: • Terminals and Contacts:** Brass with silver-plate as standard **• Insulation:** Diallyl phthalate **• Index Life:** 25,000 cycles minimum **• Index Stop:** Adjustable **• Stop Strength:** 25 inches/pound minimum

Hardware: Mounting nut and lockwasher are shipped assembled.

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	23	1	1	No	451-1035-ND	23.38	19.13	17.00	C7D0123N
2	23	1	2	No	451-1037-ND	33.28	27.23	24.20	C7D0223N
1	24	1	1	No	451-1036-ND	23.38	19.13	17.00	C7D0124N-C
2	24	1	2	No	451-1038-ND	33.28	27.23	24.20	C7D0224N-C

D2 Series Rotary Switches .55 Amp

The D2 Series switch is used where space is at a premium. This dual ball side thrust index offers exceptional torque control. Standard designs utilize diallyl phthalate or ceramic insulation, solder lug terminals, and 30° adjustable stop indexing.

Specifications: Electrical: • Current and Voltage Rating: 0.55 amp @ 28VDC; 0.25 amp @ 115VAC **• Current Carrying Capacity:** 7 amps **• Dielectric Strength:** 750VAC between current carrying parts and ground **• Contact Resistance:** Average initial 5mΩ **• Insulation Resistance:** Diallyl in excess of 900,000MΩ, Ceramic in excess of 1,000,000MΩ **Mechanical: • Clips and Rotors:** Brass with silver-plate as standard **• Insulation:** Diallyl phthalate or ceramic **• Index Life:** 25,000 cycles minimum **• Index Angle:** Positive 30° **• Index Stop:** Adjustable standard **• Stop Strength:** 10 inches/pound minimum

Hardware: Mounting nut and lockwasher are shipped assembled.

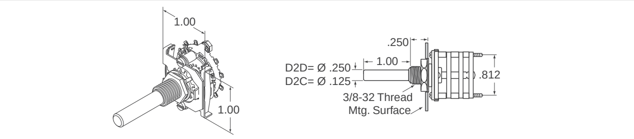

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	2-12	1	1	No	451-1056-ND	30.80	25.20	22.40	D2D0112N
2	2-06	2	1	No	451-1057-ND	30.80	25.20	22.40	D2D0206N
2	2-12	1	2	No	451-1058-ND	41.25	33.75	30.00	D2D0212N
3	2-05	3	1	No	451-1059-ND	30.80	25.20	22.40	D2D0305N
3	2-12	1	3	No	451-1060-ND	52.25	42.75	38.00	D2D0312N
4	02-06	2	2	No	451-1061-ND	41.25	33.75	30.00	D2D0406N
6	02-05	3	2	No	451-1062-ND	41.25	33.75	30.00	D2D0605N
6	02-06	2	3	No	451-1063-ND	52.25	42.75	38.00	D2D0606N
1	02-11	1	1	No	451-1045-ND	43.18	35.33	31.40	D2C0111N
3	02-03	3	1	No	451-1048-ND	43.18	35.33	31.40	D2C0303N
3	02-11	1	3	No	451-1049-ND	89.38	73.13	65.00	D2C0311N
4	02-05	2	2	No	451-1050-ND	66.28	54.23	48.20	D2C0405N

D4 Series Rotary Switches 1.5 Amp

The D4 Series switch is the most economical and versatile switch in our open frame rotary line. This series offers the quality feel of a ball and spring index mechanism.

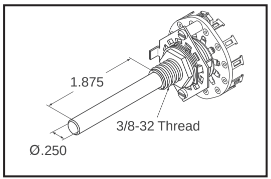

Specifications: Electrical: Current and Voltage Rating: 1.5 amps @ 28VDC; 0.5 amp @ 115VAC **• Dielectric Strength:** 1,500VAC **• Contact Resistance:** Average initial 3.5mΩ **• Insulation Resistance:** Glass epoxy in excess of 750,000MΩ. Ceramic in excess of 1,000,000MΩ

Mechanical: Clips and Rotors: Brass with silver-plate as standard. **• Index Life:** 25,000 cycles minimum **• Index Angle:** Positive 30° **• Stop Strength:** 10 inches/pound minimum **• Index Stop:** Adjustable

Hardware: Mounting nut and lockwasher are shipped assembled.

Poles	Active Positions	Poles/ Deck	No. of Decks	Shorting	Digi-Key Part No.	Price Each 1	10	50	Electroswitch Part No.
1	02-11	1	1	No	451-1096-ND	22.83	18.68	16.60	D4G0111N
2	02-11	1	2	No	451-1098-ND	30.80	25.20	22.40	D4G0211N
2	02-05	2	1	No	451-1097-ND	22.83	18.68	16.60	D4G0205N
3	02-11	1	3	No	451-1100-ND	38.78	31.73	28.20	D4G0311N
3	02-03	3	1	No	451-1099-ND	22.83	18.68	16.60	D4G0303N
4	02-11	1	4	No	451-1102-ND	46.75	38.25	34.00	D4G0411N
4	02-05	2	2	No	451-1101-ND	30.80	25.20	22.40	D4G0405N
1	02-12	1	1	No	451-1087-ND	34.38	28.13	25.00	D4C0112N

Rotary Accessories — Knobs and Dial Plates

Fig. 1

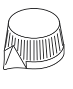

Fig. 2

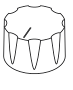

Fig. 3

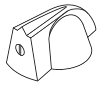

Fig. 4 15°

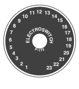

Fig. 5 30°

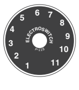

Fig. 6 30°

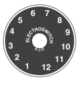

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Electroswitch Part No.
1	Pointer Knob with One Set Screw, .125" Shaft	451-1122-ND	2.70	2.40	1400R
2	Round Knob with One Set Screw, .250" Shaft	451-1123-ND	7.88	7.00	1914N
3	Pointer Knob with One Set Screw, .250" Shaft	451-1121-ND	2.25	2.00	P 2300
4	Dial Plate, 1-23 Digit, 1.87" diameter 15°	451-1126-ND	2.14	1.90	P173
5	Dial Plate, 1-11 Digit, 1.87" diameter 30°	451-1125-ND	2.70	2.40	P118
6	Dial Plate, 1-12 Digit, 1.87" diameter 30°	451-1124-ND	2.70	2.40	P112

Grayhill Adjustable Stop Rotary Switches

Series 42, 44, 50, 51, 56 and 71

Fig. 1 - Series 42 and 44

Series 42			Series 44		
A	B	C	A	B	C
14.27	25.40	21.08	16.31	29.51	25.40

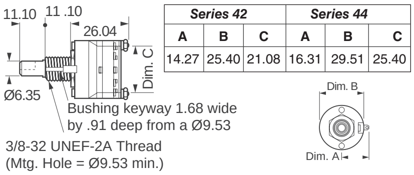

Fig. 2 Series 50 and 51

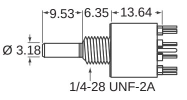

Fig. 3 - Series 56

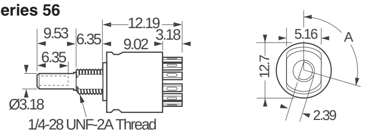

Angle Of Throw	
30°	36°
Angle "A"	
105°	108°

Fig. 4 - Series 71

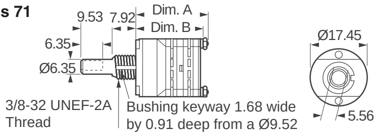

Dim. A	Dim. B
1 Deck	
19.33	.79
2 Decks	
24.87	.79

Fig. 5 - Series 71

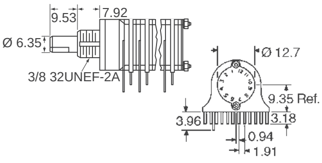

PC Mount —Rear view

56 and 71 Series

Adjustable Stop: Allows you to change number of positions per pole. Simply remove and relocate stop pins in the holes in front of switch. Pins are held in place by a self-adhesive sticker which fits over the front plate.

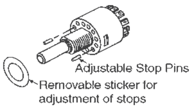

Fig.	Angle Of Throw	Terminals	No. of Poles	Pos. per Pole	No. of Decks	Current Rating Amps	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
1	36 36 30 30	Solder Lug	SP DP SP DP	10 5 12 6	1	1	GH4201-ND GH4202-ND GH4401-ND GH4402-ND	36.46 38.01 37.41 38.99	29.17 30.41 29.93 31.19	21.88 22.81 22.45 23.40	42D36-01-1-AJN 42D36-01-2-AJN 44D30-01-1-AJN 44D30-01-2-AJN
2	36 36 30	Solder Lug	SP DP SP	10 5 12	1	200mA	GH7273-ND GH7274-ND GH7277-ND	14.86 18.73 16.01	11.89 14.99 12.81	8.92 11.24 9.61	50D36-01-1-AJN 50D36-01-2-AJN 51D30-01-1-AJN
	36 36 30	PC	SP DP SP	10 5 12	1	200mA	GH7275-ND GH7276-ND GH7278-ND	15.85 19.42 16.68	12.68 15.54 13.35	9.51 11.65 10.01	50DP36-01-1-AJN 50DP36-01-2-AJN 51DP30-01-1-AJN
3	30 30 36 36	Solder Lug	SP DP SP DP	12 6 10 5	1	200mA	GH5601-ND GH5602-ND GH5603-ND GH5604-ND	10.40 11.53 10.07 11.20	8.33 9.23 8.06 8.97	6.25 6.92 6.04 6.73	56D30-01-1-AJN 56D30-01-2-AJN 56D36-01-1-AJN 56D36-01-2-AJN
	30 30 36 36	PC	SP DP SP DP	12 6 10 5	1	200mA	GH7279-ND GH7280-ND GH7281-ND GH7282-ND	10.72 11.87 10.40 11.31	8.58 9.50 8.32 9.05	6.44 8.91 6.24 6.79	56DP30-01-1-AJN 56DP30-01-2-AJN 56DP36-01-1-AJN 56DP36-01-2-AJN
4	30	Solder Lug	SP DP SP DP	12 6 12 6	1 1 2 2	250mA	GH7101-ND GH7102-ND GH7103-ND GH7104-ND	14.80 15.38 19.17 20.36	11.85 12.31 15.34 16.30	8.89 9.23 11.51 12.22	71BD30-01-1-AJN 71BD30-01-2-AJN 71BD30-02-1-AJN 71BD30-02-2-AJN
5	30	PC	SP DP SP DP	12 6 12 6	1 1 2 2	250mA	GH7105-ND GH7106-ND GH7107-ND GH7108-ND	22.33 23.16 30.62 32.23	18.76 19.46 25.73 27.09	13.36 13.86 18.33 19.29	71BDF30-01-1-AJN 71BDF30-01-2-AJN 71BDF30-02-1-AJN 71BDF30-02-2-AJN

CTS Adjustable Stop Rotary Switches

Specifications: • Adjustable stop allows you to limit the number of switch positions as needed • **Rotor Contact:** Standard with Silver plated Brass • **Rotor:** Standard with Nylon maximum temperature requirements of 125°C • **Voltage and Current ratings:** UL ratings are 3/4 amp at 125 volts AC; 1/4 amp at 250 volts DC; 1/2 amp at 125 volts DC (non-shorting contacts) • **Contact Resistance:** .008 ~ .010Ω • **Contact Life:** Silver plated brass, solid silver rotor contacts, and silver plated brass stator contacts provide a minimum reliable life of over 1,100,000 operations or of 50,000 cycles through twelve positions and return without appreciable rise in contact resistance.

Fig. 1

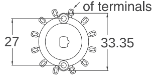

Fig. 2

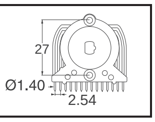

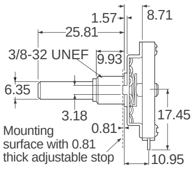

Mounting surface with 0.81 thick adjustable stop

Fig.	Angle of Throw	Type	Terminals	No. Poles	No. Pos.	No. Decks	Current Rating Amps	Digi-Key Part No.	Price Each 1	10	50
1	30°	Non-Short Shorting	Solder Lug	SP	12 11	1	3/4A-125VAC	CT2121-ND CT2122-ND	7.59 7.59	7.06 7.06	5.86 5.86
2	30°	Non-Short Shorting	Printed Circuit	SP	12 11	1	3/4A-125VAC	CT2123-ND CT2124-ND	8.28 8.23	7.70 7.66	6.40 6.36

OMRON Rotary DIP Switches

LIFE EXPECTANCY: • **Mechanical**: 10,000 operations minimum (A6R 5,000) • **Electrical**: 2,000 operations minimum • **Contact Resistance**: 200mΩ.

Fig. 1

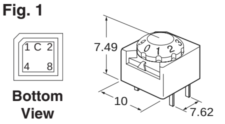

Fig. 2

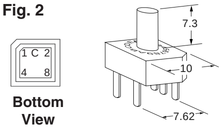

Fig. 3

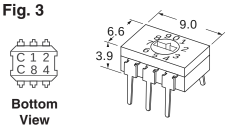

Fig. 4

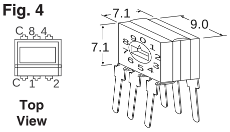

Fig. 5

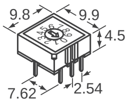

Fig. 6

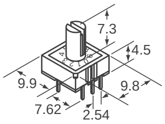

Fig. 7

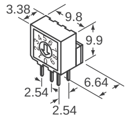

Fig. 8

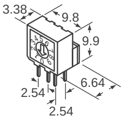

BCD Output Codes

BCD Type

Pos-ition	Terminal No. 1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●

Note: "●" in the tables show the output terminal No. that can be connected to the common terminal.

Hexadecimal Type

Pos-ition	Terminal No. 1	2	4	8
0				
1	●			
2		●		
3	●	●		
4			●	
5	●		●	
6		●	●	
7	●	●	●	
8				●
9	●			●
A		●		●
B	●	●		●
C			●	●
D	●		●	●
E		●	●	●
F	●	●	●	●

Fig.	No. of Pos.	Output Code Type	Switching Capacity mA	VDC	Operating Temperature	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
1	10 16	BCD Hexdec.	100	28	-10°C ~ 70°C	SW220-ND SW221-ND	3.75 3.88	3.38 3.49	3.00 3.10	2.70 2.79	A6A-10R A6A-16R
2	10 16	BCD Hexdec.	100	28	-10°C ~ 70°C	SW214-ND SW215-ND	4.13 4.38	3.72 3.94	3.30 3.50	2.97 3.15	A6A-10RS A6A-16RS
	10 16	BCD Hexdec.	100	28	-10°C ~ 70°C	SW222-ND SW223-ND	4.50 4.63	4.05 4.17	3.60 3.70	3.24 3.33	A6A-10RW A6A-16RW
3	10 16	BCD Hexdec.	100	30	-20°C ~ 70°C	SW216-ND SW217-ND	2.88 3.00	2.59 2.70	2.30 2.40	2.07 2.16	A6C-10R(N) A6C-16R(N)
4	10 16	BCD Hexdec.	100	30	-20°C ~ 70°C	SW218-ND SW219-ND	3.88 4.13	3.49 3.72	3.10 3.30	2.79 2.97	A6CV-10R A6CV-16R
5	10	BCD	25	24	-25°C ~ 80°C	SW751-ND	2.88	2.60	2.31	2.08	A6R-102RF
6	10 16	BCD Hexdec.	25	24	-25°C ~ 80°C	SW753-ND SW754-ND	3.17 3.37	2.86 3.04	2.54 2.70	2.29 2.43	A6R-102RS A6R-162RS
7	10 16	BCD Hexdec.	25	24	-25°C ~ 80°C	SW755-ND SW756-ND	3.27 3.46	2.95 3.12	2.62 2.77	2.36 2.50	A6RV-102RF A6RV-162RF
8	10 16	BCD Hexdec.	25	24	-25°C ~ 80°C	SW757-ND SW758-ND	3.56 3.75	3.21 3.38	2.85 3.00	2.57 2.70	A6RV-102RS A6RV-162RS

I

E-SWITCH® Adjustable Stop Rotary Switches

KC Series

With applications ranging for test and measurement equipment to telephone base stations to hospital controls. These rotary switches have performed exceptionally well.

Specifications: • **Contacts:** (Non-Shorting). Available with solder lugs or printed circuit boards pins with adjustable stops to select any number of positions • **Operating Force:** 570 Grams • **Indexing:** 30° Index • **Contact Rating (Switching):** 150mA 250V AC/DC; 350mA 110V AC/DC • **Contact Rating (Non-Switching):** 5 Amps • **Initial Contact Resistance:** Silver = 50mΩ maximum • **Operating Temperature:** –30°C ~ 85°C • **Moving and Fixed Contact:** Silver plated brass.

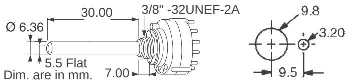

Terminations

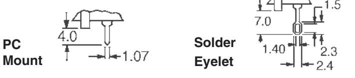

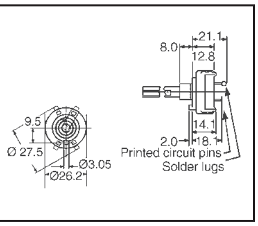

No. of Pole	No. of Pos.	Termination	Digi-Key Part No.	Price Each 1	10	100	250	E-Switch Part No.
SP	12	PC Mount	EG1951-ND	5.07	4.57	3.89	3.22	KC-52-A-30.0-01-N-P-S
SP	12	Solder Eyelet	EG1952-ND	5.07	4.57	3.89	3.22	KC-52-A-30.0-01-N-L-S
DP	6	PC Mount	EG1953-ND	5.07	4.57	3.89	3.22	KC-26-A-30.0-01-N-P-S
DP	6	Solder Eyelet	EG1954-ND	5.07	4.57	3.89	3.22	KC-26-A-30.0-01-N-L-S
3P	4	PC Mount	EG1955-ND	5.07	4.57	3.89	3.22	KC-34-A-30.0-01-N-P-S
3P	4	Solder Eyelet	EG1956-ND	5.07	4.57	3.89	3.22	KC-34-A-30.0-01-N-L-S
4P	3	PC Mount	EG1957-ND	5.07	4.57	3.89	3.22	KC-43-A-30.0-01-N-P-S
4P	3	Solder Eyelet	EG1958-ND	5.07	4.57	3.89	3.22	KC-43-A-30.0-01-N-L-S

Adjustable Stop Rotary Switches

Dim. in mm

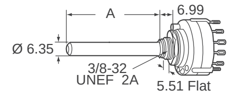

Fig. 1

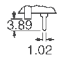

Fig. 2

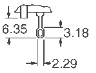

Specifications:
• **Contact Rating:** Switch-2.5 AMPS @ 125VAC or 28VDC; 150mA @ 250VAC or DC. Carry - 5 AMPS • **Electrical Life:** 15,000 make-and-break cycles • **Contact Resistance:** 20mΩ typical • **Operating Temperature:** -30°C ~ 85°C

Materials:
• **Housing:** Glass filled nylon, red • **Movable Contact:** coin silver, silver plated • **Stationary Contacts & Terminals:** Brass, silver plated • **Hardware:** Nut, Lockwasher, Stop Ring Included

Fig.	Poles	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	250	ITT Industries Part No.
1	SP	12	12.7	CKN6042-ND	5.97	4.78	3.78	2.99	A11205RNCQ
1	SP	12	38.1	CKC7001-ND	5.69	4.56	3.61	2.85	A11215RNCQ
2	SP	12	38.1	CKC7002-ND	5.69	4.56	3.61	2.85	A11215RNZQ
1	DP	6	38.1	CKC7003-ND	6.03	4.83	3.82	3.02	A20615RNCQ
2	DP	6	38.1	CKC7004-ND	6.03	4.83	3.82	3.02	A20615RNZQ
2	3P	4	9.53	CKN6043-ND	6.21	4.98	3.94	3.11	A30403RNZQ
1	3P	4	38.1	CKC7005-ND	5.94	4.75	3.77	2.97	A30415RNCQ
2	3P	4	38.1	CKC7006-ND	5.94	4.75	3.77	2.97	A30415RNZQ
1	4P	3	38.1	CKC7007-ND	6.52	5.22	4.13	3.26	A40315RNCQ
2	4P	3	38.1	CKC7008-ND	6.52	5.22	4.13	3.26	A40315RNZQ
Replacement HexNuts 3/8-32				CKN1828-ND	.78	.63	.50	.39	472706201

Half-inch Rotary Switches M Series

Dim. in inches

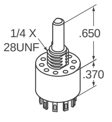

Fig. 1

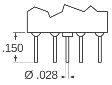

Fig. 2

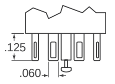

Specifications:

- **Contact Rating:** Switch-250mA maximum @125VAC or 28DC; Non-shorting contacts; Carry - 6 AMPS
- **Electrical Life:** 10,000 make-and-break cycles at 150mA, 125VAC or 28DC
- **Operating Temperature:** -30°C ~ 85°C

Hardware Included

Fig.	Poles	No. of Pos.	Digi-Key Part No.	Price Each 1	25	100	250	ITT Industries Part No.
1	SP	12	CKC7011-ND	8.95	7.74	6.52	5.91	MC00L1NCQD
	SP	10	CKN6044-ND	11.93	9.55	7.56	5.97	MA00L1NCQD
	SP	10	CKN6047-ND	11.93	9.55	7.56	5.97	ME00L1NCQD
	DP	6	CKC7012-ND	9.96	8.61	7.25	6.57	MD00L1NCQD
2	SP	12	CKC7009-ND	8.62	7.45	6.27	5.68	MC00L1NZQD
	SP	12	CKN6049-ND	8.62	7.45	6.27	5.68	MG00L1NZQD
	SP	10	CKN6048-ND	11.48	9.18	7.27	5.74	ME00L1NZQD
	SP	10	CKN6045-ND	11.48	9.18	7.27	5.74	MA00L1NZQD
	DP	6	CKC7010-ND	13.13	10.51	8.32	6.57	MD00L1NZQD
	DP	6	CKN6050-ND	13.13	10.51	8.32	6.57	MH00L1NZQD
	DP	5	CKN6046-ND	12.76	10.21	8.09	6.38	MB00L1NZQD
Replacement Stop Pins			CKN1750-ND	.28	.23	.18	.15	537100000

Miniature Right Angle Rotary Switches MIL Series

Fig. 1

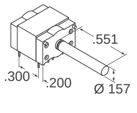

Dim. in inches

Fig. 2

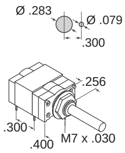

***Features*:** • Totally sealed (insert molded contacts and terminals) • Low profile - 12mm above PCB
***Applications*:** • Telecom switching equipment • Military communications • Instrumentation • Medical monitors
***Specifications*:** • **Contact Rating**: Switch: 20mA, 1VA maximum resistive load carry: 1AMP • **Electrical Life**: 20,000 operations • **Operating Temperature**: -40°C ~ 85°C
***Materials*:** • **Housing**: Thermoplastic and Thermoset • **Actuator**: Steel • **Contacts**: Brass, gold plated • **O-ring**: Silicone
Hardware Included

Fig.	Poles	No. of Pos.	No. of Banks	Digi-Key Part No.	Price Each 1	25	100	250	ITT Industries Part No.
1	SP	6	1	401-1544-ND	39.79	35.37	30.95	26.53	MIL1106B06NSD25
	SP	12	1	401-1548-ND	39.79	35.37	30.95	26.53	MIL1112B12NSD25
	SP	12	1	401-1550-ND*	38.50	34.23	29.95	25.67	MIL1112SNSD25
	DP	6	1	401-1552-ND	41.78	37.14	32.50	27.86	MIL1206B06NSD25
	3P	3	1	401-1555-ND	44.48	39.55	34.60	29.66	MIL1303B03NSD25
	SP	12	2	401-1557-ND	71.02	63.14	55.25	47.35	MIL2112B12NSD25
2	SP	6	1	401-1543-ND	48.21	42.86	37.50	32.14	MIL1106B06NAD25
	SP	12	1	401-1547-ND	49.69	44.17	38.65	33.13	MIL1112B12NAD25
	SP	12	1	401-1549-ND*	48.21	42.86	37.50	32.14	MIL1112SNAD25
	DP	6	1	401-1551-ND	50.20	44.63	39.05	33.47	MIL1206B06NAD25
	DP	6	1	401-1553-ND*	50.20	44.63	39.05	33.47	MIL1206SNAD25
	3P	3	1	401-1554-ND	52.23	46.43	40.63	34.82	MIL1303B03NAD25
	SP	12	2	401-1556-ND	80.73	71.76	62.79	53.82	MIL2112B12NAD25
	SP	12	2	401-1558-ND*	80.73	71.76	62.79	53.82	MIL2112SNAD25
	DP	6	2	401-1559-ND	84.69	75.29	65.88	56.47	MIL2206B06NAD25

* Continuous Rotation

Coded Rotary Switches RTA Series

Dim. in inches

Fig. 1

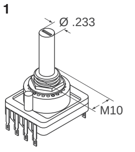

Fig. 2

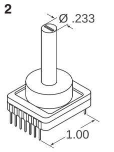

***Features*:** • PCB or hand soldering versions • Bushing mounting • Decimal and hexadecimal codes • Screwdriver slot or extended actuator
***Applications*:** • Appliances • Electronic alarm systems • Medical • Building automation • HVAC air conditioning
***Specifications*:** • Contact Rating: 5 AMPS • Electrical Life: 10,000 operations
***Materials*:** • Contacts and Terminals: Nickel alloy, silver plated
Hardware Included

Fig.	Index	Poles	No. of Pos.	Actuator Length (mm)	Digi-Key Part No.	Price Each 1	25	100	250	ITT Industries Part No.
1	22.5	BCD	—	25	401-1561-ND*	6.33	5.63	4.93	4.23	RTAC22.5BSAD25S
	30	SP	12	25	401-1562-ND	5.27	4.69	4.11	3.52	RTAC30112B12AD25S
		SP	12	50	401-1563-ND	5.27	4.69	4.11	3.52	RTAC30112B12AD50S
		SP	12	25	401-1564-ND*	5.27	4.69	4.11	3.52	RTAC30112SAD25S
		DP	6	25	401-1565-ND	5.27	4.69	4.11	3.52	RTAC30206B06AD25S
		DP	6	50	401-1566-ND	5.27	4.69	4.11	3.52	RTAC30206B06AD50S
2	22.5	BCD	—	25	401-1567-ND*	5.92	5.27	4.61	3.95	RTAP22.5BSSD25S
		BCD	—	Screw-driver	401-1568-ND*	5.81	5.17	4.52	3.88	RTAP22.5BSSDFS
	30	SP	12	25	401-1569-ND	4.86	4.33	3.79	3.25	RTAP30112B12SD25S
		SP	12	25	401-1570-ND	4.86	4.33	3.79	3.25	RTAP30112SSD25S
		DP	6	25	401-1571-ND	4.86	4.33	3.79	3.25	RTAP30206B06SD25S
		DP	6	50	401-1572-ND	4.86	4.33	3.79	3.25	RTAP30206SSD50S
		BCD + Complement	—	25	401-1573-ND*	5.46	4.85	4.25	3.64	RTAP30BCSSD25S
			—	50	401-1574-ND	5.46	4.85	4.25	3.64	RTAP30BCSSD50S
	36	SP	10	25	401-1575-ND	5.34	4.75	4.16	3.56	RTAP36110B10SD25S
		SP	10	25	401-1576-ND	5.34	4.75	4.16	3.56	RTAP36110SSD25S
		DP	5	25	401-1577-ND	5.34	4.75	4.16	3.56	RTAP36205B05SD25S
		BCD + Comp.	—	25	401-1578-ND	5.92	5.27	4.61	3.95	RTAP36BCSSD25S

* Continuous Rotation

8mm/10mm DIP Coded Rotary Switches

Specifications*:** • **Contact Ratings:** 0.4VA maximum @ 20VAC or VDC maximum • **Mechanical & Electrical Life:** 20,000 position changes • **Contact Resistance:** 50mΩ maximum initial • **Operating Temperature:** –25°C ~ 85°C. ***Materials*:** • **Cover & Base:** Glass filled nylon, flame retardant, heat stabilized (UL 94V-0) RoHS version PPS • **Actuator:** LCP (UL 94V-0), internal o-ring seal standard with all actuators • **Movable Contacts:** Copper alloy, with gold plate over nickel plate • **Terminals:** Copper alloy, with tin-lead alloy over nickel plate. ***RoHS Version: Copper alloy with gold plate over nickel plate All terminals are insert molded.

Fig. 1 – Vertical

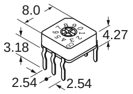

Fig. 2 – Right Angle

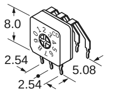

Fig. 3 – SMT

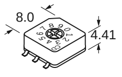

Fig. 4 – PC Mount

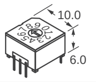

Fig. 5 – Right Angle

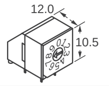

Fig. 6 – SMT

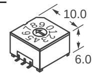

Actuator Options

Dim. in mm

A Flush Actuator*

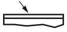

*Designed for #0 phillips screwdriver.

B

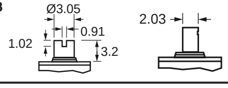

C

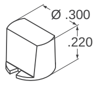

Fig.	Type	Actuator	Digi-Key Part No.	Price Each 1	25	100	250	ITT Industries Part No.
8mm Rotary Dip - Vertical - Process Sealed								
1	BCD	A	CKN3044-ND	4.34	4.02	3.35	2.51	CD10RM0CK
		A	CKN6157-NDΔ ***NEW!***	5.01	4.02	3.18	2.51	CD10RM0CB
		B	CKN3045-ND	4.99	4.61	3.84	2.88	CD10RL1CK
		B	CKN6155-NDΔ ***NEW!***	5.76	4.61	3.65	2.88	CD10RL1CB
		C	CKN1224-ND	5.82	5.38	4.48	3.36	CD10RK1CK
		C	CKN6152-NDΔ ***NEW!***	6.72	5.38	4.26	3.36	CD10RK1CB
	HEX	A	CKN3049-ND	4.77	4.41	3.68	2.76	CD16RM0CK
		A	CKN6166-NDΔ ***NEW!***	5.51	4.41	3.49	2.76	CD16RM0CB
		B	CKN3050-ND	5.47	5.05	4.21	3.16	CD16RL1CK
		B	CKN6164-NDΔ ***NEW!***	6.31	5.05	4.00	3.16	CD16RL1CB
		C	CKN1225-ND	6.30	5.82	4.85	3.64	CD16RK1CK
		C	CKN6161-NDΔ ***NEW!***	7.27	5.82	4.61	3.64	CD16RK1CB
8mm Rotary Dip - Right Angle - Process Sealed								
2	BCD	A	CKN3046-ND	5.13	4.74	3.95	2.97	CD10RM0AK
		A	CKN6156-NDΔ ***NEW!***	5.92	4.74	3.76	2.97	CD10RM0AB
		B	CKN3047-ND	5.75	5.31	4.43	3.32	CD10RL1AK
		B	CKN6154-NDΔ ***NEW!***	6.64	5.31	4.21	3.32	CD10RL1AB
		C	CKN6151-NDΔ ***NEW!***	7.60	6.09	4.82	3.81	CD10RK1AB
	HEX	A	CKN3051-ND	5.66	5.23	4.36	3.27	CD16RM0AK
		A	CKN6165-NDΔ ***NEW!***	6.53	5.23	4.14	3.27	CD16RM0AB
		B	CKN3052-ND	6.28	5.80	4.83	3.63	CD16RL1AK
		B	CKN6163-NDΔ ***NEW!***	7.24	5.80	4.59	3.63	CD16RL1AB
		C	CKN1227-ND	7.11	6.57	5.48	4.11	CD16RK1AK
		C	CKN6160-NDΔ ***NEW!***	8.21	6.57	5.20	4.11	CD16RK1AB
8mm Rotary Dip - SMT - Process Sealed								
3	BCD	A	CKN3048-ND	4.89	4.52	3.77	2.83	CD10RM0SK
		A	CKN6158-NDΔ ***NEW!***	5.65	4.52	3.58	2.83	CD10RM0SB
		C	CKN1228-ND	6.42	5.93	4.94	3.71	CD10RK1SK
		C	CKN6153-NDΔ ***NEW!***	7.41	5.93	4.70	3.71	CD10RK1SB
		A	CKN6040-ND	5.65	4.52	3.58	2.83	CD08RM0SK

Δ ***RoHS Compliant***

(Continued)

ITT 8mm/10mm DIP Coded Rotary Switches *(Cont.)*

Fig.	Type	Actuator	Digi-Key Part No.	Price Each				ITT Industries Part No.
				1	25	100	250	
8mm Rotary Dip - SMT - Process Sealed (cont.)								
3	BCD	Flush	CKN6150-NDΔ ***NEW!***	5.65	4.52	3.58	2.83	CD08RM0SB
	HEX	Flush	CKN3053-ND	5.40	4.98	4.15	3.12	CD16RM0SK
	HEX	Flush	CKN6167-NDΔ ***NEW!***	6.23	4.98	3.95	3.12	CD16RM0SB
	HEX	C	CKN1229-ND	6.92	6.39	5.33	4.00	CD16RK1SK
	HEX	C	CKN6162-NDΔ ***NEW!***	7.99	6.39	5.06	4.00	CD16RK1SB
	HEX Comp	Flush	CKN6041-ND	6.23	4.98	3.95	3.12	CD16CM0SK
	HEX Comp	Flush	CKN6159-NDΔ ***NEW!***	6.23	4.98	3.95	3.12	CD16CM0SB
10mm Rotary Dip - PC Mount - Process Sealed								
4	BCD	Flush	CKN6172-NDΔ ***NEW!***	5.02	4.02	3.18	2.51	CRD10RM0CB
	BCD Comp	Flush	CKN6169-NDΔ ***NEW!***	5.02	4.02	3.18	2.51	CRD10CM0CB
	HEX	Flush	CKN1369-ND	4.77	4.41	3.68	2.76	CRD16RM0CK
	HEX	Flush	CKN6178-NDΔ ***NEW!***	5.51	4.41	3.49	2.76	CRD16RM0CB
	HEX Comp	Flush	CKN1370-ND	4.77	4.41	3.68	2.76	CRD16CM0CK
	HEX Comp	Fl ush	CKN6175-NDΔ ***NEW!***	5.51	4.41	3.49	2.76	CRD16CM0CB

Fig.	Type	Actuator	Digi-Key Part No.	Price Each				ITT Industries Part No.
				1	25	100	250	
10mm Rotary Dip - Right Angle Mount - Process Sealed								
5	BCD	Flush	CKN1371-ND	5.15	4.75	3.96	2.97	CRD10RM0AK
	BCD	Flush	CKN6171-NDΔ ***NEW!***	5.94	4.75	3.77	2.97	CRD10RM0AB
	BCD Comp	Flush	CKN1372-ND	5.15	4.75	3.96	2.97	CRD10CM0AK
	BCD Comp	Flush	CKN6168-NDΔ ***NEW!***	5.94	4.75	3.77	2.97	CRD10CM0AB
	HEX	Flush	CKN1373-ND	5.65	5.22	4.35	3.26	CRD16RM0AK
	HEX	Flush	CKN6177-NDΔ ***NEW!***	6.52	5.22	4.13	3.26	CRD16RM0AB
	HEX Comp	Flush	CKN6174-NDΔ ***NEW!***	6.52	5.22	4.13	3.26	CRD16CM0AB
10mm Rotary Dip - Surface Mount - Process Sealed								
6	BCD	Flush	CKN1375-ND	4.91	4.53	3.78	2.84	CRD10RM0SK
	BCD	Flush	CKN6173-NDΔ ***NEW!***	5.66	4.53	3.59	2.84	CRD10RM0SB
	BCD Comp	Flush	CKN1376-ND	4.91	4.53	3.78	2.84	CRD10CM0SK
	BCD Comp	Flush	CKN6170-NDΔ ***NEW!***	5.66	4.53	3.59	2.84	CRD10CM0SB
	HEX	Flush	CKN1377-ND	5.38	4.98	4.15	3.11	CRD16RM0SK
	HEX	Flush	CKN6179-NDΔ ***NEW!***	6.21	4.98	3.94	3.11	CRD16RM0SB
	HEX Comp	Flush	CKN1378-ND	5.38	4.98	4.15	3.11	CRD16CM0SK
	HEX Comp	Flush	CKN6176-NDΔ ***NEW!***	6.21	4.98	3.94	3.11	CRD16CM0SB

Δ ***RoHS Compliant***

DIP Switches

SDA Low Profile

Features: • Low profile design saves space • High pressure contact does not require tape sealing

Specifications: • Contact Rating: 25mA @ 24VDC or 100mA @ 50VDC • Mechanical and Electrical Life: 1,000 cycles at rated loads • Operating Temperature: -20°C ~ 85°C

BPA Side Actuated

Features: • High pressure contact system does not require tape seal

Specifications: • Contact Rating: 100mA maximum @ 5VDC or 25mA maximum • Mechanical and Electrical Life: 1,000 cycles minimum @ 5VDC 10mA @ 24 V DC • Operating Temperature: -20°C ~ 85°C

SP Single In-line

Features: • Thin Single In-line Packaging saves PCB space • Retention feature holds part to PCB prior to soldering • High pressure contact system does not require tape sealing

Specifications: • Contact Rating: 100mA • Mechanical and Electrical Life: 1,000 cycles minimum • Operating Temperature: -20°C ~ 85°C

BD Standard Profile

Features: • Traditional full profile DIP switch • Extended actuator for easy actuation • Open bottom construction allows for solder washing without the need for tape seal

Specifications: • Contact Rating: 100mA maximum • Mechanical and Electrical Life: 10,000 cycles at full load • Operating Temperature: -40°C ~ 85°C

BP Side Actuated

Features: • When actuated, contacts remain below top of switch • Ideal for applications where space is limited

Specifications: • Contact Rating: 100mA maximum • Mechanical and Electrical Life: 2,000 cycles - gold contacts, 1,000 cycles - tin contacts • Operating Temperature: -20°C ~ 60°C

SD Low Profile

Features: • Low profile design saves space • Sealed with top tape

Specifications: • Contact Rating: 100mA @ 50VDC maximum • Mechanical and Electrical Life: 2,000 cycles at full load • Operating Temperature: -20°C ~ 85°C

TDA Half-pitch Ultra-mini SMT

Specifications: • Contact Rating: • 50VDC, 100mA • Mechanical and Electrical Life: 1,000 cycles • Operating Temperature: -20°C ~ 85°C

Fig. 1

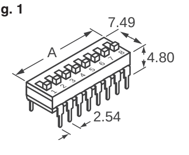

Fig. 2

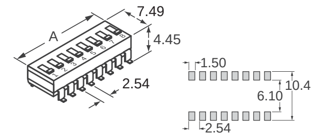

Fig. 3

Dim. in mm

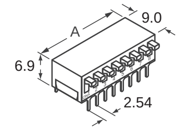

Fig. 4

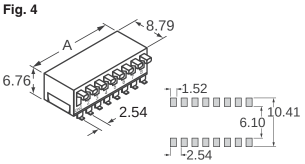

Fig. 5

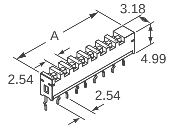

Fig. 6

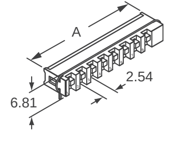

Fig. 7

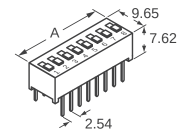

Fig. 8

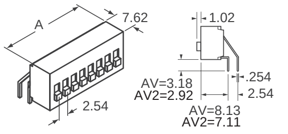

Fig. 9

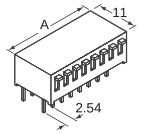

Fig. 10

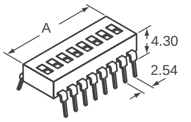

Fig. 11

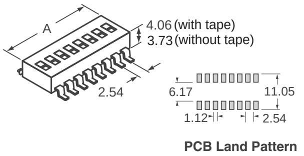

Fig. 12

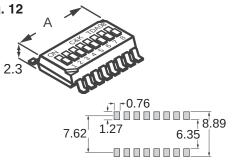

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each			ITT Part No.
				1	25	100	
DIP Top Slide with Extended Actuator — Unsealed							
1	2	7.06	CKN1276-ND	1.07	.86	.68	SDA02H1KD
	2	7.06	CKN6055-NDΔ ***NEW!***	1.07	.86	.68	SDA02H1BD
	3	9.60	CKN1277-ND	1.13	.91	.72	SDA03H1KD
	3	9.60	CKN6061-NDΔ ***NEW!***	1.13	.91	.72	SDA03H1BD
	4	12.10	CKN1278-ND	1.19	.96	.76	SDA04H1KD
	4	12.10	CKN6067-NDΔ ***NEW!***	1.19	.96	.76	SDA04H1BD
	5	14.68	CKN1279-ND	1.25	1.01	.80	SDA05H1KD
	5	14.68	CKN6073-NDΔ ***NEW!***	1.25	1.01	.80	SDA05H1BD
	6	17.18	CKN1280-ND	1.28	1.03	.82	SDA06H1KD
	6	17.18	CKN6079-NDΔ ***NEW!***	1.28	1.03	.82	SDA06H1BD
	7	19.76	CKN1281-ND	1.38	1.11	.88	SDA07H1KD
	7	19.76	CKN6085-NDΔ ***NEW!***	1.38	1.11	.88	SDA07H1BD
	8	22.26	CKN1282-ND	1.53	1.23	.97	SDA08H1KD
	8	22.26	CKN6091-NDΔ ***NEW!***	1.53	1.23	.97	SDA08H1BD
	9	24.84	CKN1283-ND	1.68	1.35	1.07	SDA09H1KD
	9	24.84	CKN6096-NDΔ ***NEW!***	1.68	1.35	1.07	SDA09H1BD
	10	27.34	CKN1284-ND	1.81	1.45	1.15	SDA10H1KD
	10	27.34	CKN6102-NDΔ ***NEW!***	1.81	1.45	1.15	SDA10H1BD
	12	32.50	CKN1285-ND	1.99	1.60	1.26	SDA12H1KD
	12	32.50	CKN6108-NDΔ ***NEW!***	1.99	1.60	1.26	SDA12H1BD
	2	7.06	CKN1296-ND	1.07	.86	.68	SDA02H0KD

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each			ITT Part No.
				1	25	100	
DIP Top Slide with Flush Actuator — Unsealed							
1	2	7.06	CKN6052-NDΔ ***NEW!***	1.07	.86	.68	SDA02H0BD
	3	9.60	CKN1297-ND	1.13	.91	.72	SDA03H0KD
	3	9.60	CKN6058-NDΔ ***NEW!***	1.13	.91	.72	SDA03H0BD
	4	12.10	CKN1298-ND	1.19	.96	.76	SDA04H0KD
	4	12.10	CKN6064-NDΔ ***NEW!***	1.19	.96	.76	SDA04H0BD
	5	14.68	CKN1299-ND	1.25	1.01	.80	SDA05H0KD
	5	14.68	CKN6070-NDΔ ***NEW!***	1.25	1.01	.80	SDA05H0BD
	6	17.18	CKN1300-ND	1.28	1.03	.82	SDA06H0KD
	6	17.18	CKN6076-NDΔ ***NEW!***	1.28	1.03	.82	SDA06H0BD
	7	19.76	CKN1301-ND	1.38	1.11	.88	SDA07H0KD
	7	19.76	CKN6082-NDΔ ***NEW!***	1.38	1.11	.88	SDA07H0BD
	8	22.26	CKN1302-ND	1.53	1.23	.97	SDA08H0KD
	8	22.26	CKN6088-NDΔ ***NEW!***	1.53	1.23	.97	SDA08H0BD
	9	24.84	CKN1303-ND	1.68	1.35	1.07	SDA09H0KD
	10	27.34	CKN1304-ND	1.81	1.45	1.15	SDA10H0KD
	10	27.34	CKN6099-NDΔ ***NEW!***	1.81	1.45	1.15	SDA10H0BD
	12	32.50	CKN1305-ND	1.99	1.60	1.26	SDA12H0KD
	12	32.50	CKN6105-NDΔ ***NEW!***	1.99	1.60	1.26	SDA12H0BD
	2	7.06	CKN1306-ND	1.22	.98	.78	SDA02H0K
	2	7.06	CKN6051-NDΔ ***NEW!***	1.22	.98	.78	SDA02H0B

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each			ITT Part No.
				1	25	100	
DIP Top Slide with Flush Actuator — Tape Sealed							
1	3	9.60	CKN1307-ND	1.25	1.01	.80	SDA03H0K
	3	9.60	CKN6057-NDΔ ***NEW!***	1.25	1.01	.80	SDA03H0B
	4	12.10	CKN1308-ND	1.32	1.06	.84	SDA04H0K
	4	12.10	CKN6063-NDΔ ***NEW!***	1.32	1.06	.84	SDA04H0B
	5	14.68	CKN1309-ND	1.38	1.11	.88	SDA05H0K
	5	14.68	CKN6069-NDΔ ***NEW!***	1.38	1.11	.88	SDA05H0B
	6	17.18	CKN1310-ND	1.44	1.15	.92	SDA06H0K
	6	17.18	CKN6075-NDΔ ***NEW!***	1.44	1.15	.92	SDA06H0B
	7	19.76	CKN1311-ND	1.53	1.23	.97	SDA07H0K
	7	19.76	CKN6081-NDΔ ***NEW!***	1.53	1.23	.97	SDA07H0B
	8	22.26	CKN1312-ND	1.68	1.35	1.07	SDA08H0K
	8	22.26	CKN6087-NDΔ ***NEW!***	1.68	1.35	1.07	SDA08H0B
	9	24.84	CKN1313-ND	1.81	1.45	1.15	SDA09H0K
	9	24.84	CKN6093-NDΔ ***NEW!***	1.81	1.45	1.15	SDA09H0B
	10	27.34	CKN1314-ND	1.96	1.57	1.25	SDA10H0K
	10	27.34	CKN6098-NDΔ ***NEW!***	1.96	1.57	1.25	SDA10H0B
	12	32.50	CKN1315-ND	2.11	1.69	1.34	SDA12H0K
	12	32.50	CKN6104-NDΔ ***NEW!***	2.11	1.69	1.34	SDA12H0B
	2	7.06	CKN1286-ND	1.56	1.25	.99	SDA02H1SKD

* Gold Contacts † No Epoxy Seal Δ ***RoHS Compliant*** *(Continued)*

SMT Top Slide with Extended Actuator — Unsealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
2	2	7.06	CKN6056-NDΔ ***NEW!***	1.56	1.25	.99	SDA02H1SBD
	3	9.60	CKN1287-ND	1.65	1.33	1.05	SDA03H1SKD
	3	9.60	CKN6062-NDΔ ***NEW!***	1.65	1.33	1.05	SDA03H1SBD
	4	12.10	CKN1288-ND	1.74	1.40	1.11	SDA04H1SKD
	4	12.10	CKN6068-NDΔ ***NEW!***	1.74	1.40	1.11	SDA04H1SBD
	5	14.68	CKN1289-ND	1.90	1.52	1.21	SDA05H1SKD
	5	14.68	CKN6074-NDΔ ***NEW!***	1.90	1.52	1.21	SDA05H1SBD
	6	17.18	CKN1290-ND	2.02	1.62	1.28	SDA06H1SKD
	6	17.18	CKN6080-NDΔ ***NEW!***	2.02	1.62	1.28	SDA06H1SBD
	7	19.76	CKN1291-ND	2.02	1.62	1.28	SDA07H1SKD
	7	19.76	CKN6086-NDΔ ***NEW!***	2.02	1.62	1.28	SDA07H1SBD
	8	22.26	CKN1292-ND	2.20	1.77	1.40	SDA08H1SKD
	8	22.26	CKN6092-NDΔ ***NEW!***	2.20	1.77	1.40	SDA08H1SBD
	9	24.84	CKN1293-ND	2.45	1.96	1.56	SDA09H1SKD
	9	24.84	CKN6097-NDΔ ***NEW!***	2.45	1.96	1.56	SDA09H1SBD
	10	27.34	CKN1294-ND	2.60	2.09	1.65	SDA10H1SKD
	10	27.34	CKN6103-NDΔ ***NEW!***	2.60	2.09	1.65	SDA10H1SBD
	12	32.50	CKN1295-ND	2.88	2.31	1.83	SDA12H1SKD
	12	32.50	CKN6109-NDΔ ***NEW!***	2.88	2.31	1.83	SDA12H1SBD

SMT Top Slide with Flush Actuator — Unsealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
2	2	7.06	CKN1316-ND	1.56	1.25	.99	SDA02H0SKD
	2	7.06	CKN6054-NDΔ ***NEW!***	1.56	1.25	.99	SDA02H0SBD
	3	9.60	CKN6060-NDΔ ***NEW!***	1.65	1.33	1.05	SDA03H0SBD
	4	12.10	CKN1318-ND	1.74	1.40	1.11	SDA04H0SKD
	4	12.10	CKN6066-NDΔ ***NEW!***	1.74	1.40	1.11	SDA04H0SBD
	5	14.68	CKN1319-ND	1.81	1.45	1.15	SDA05H0SKD
	5	14.68	CKN6072-NDΔ ***NEW!***	1.81	1.45	1.15	SDA05H0SBD
	6	17.18	CKN1320-ND	1.90	1.52	1.21	SDA06H0SKD
	6	17.18	CKN6078-NDΔ ***NEW!***	1.90	1.52	1.21	SDA06H0SBD
	7	19.76	CKN1321-ND	2.02	1.62	1.28	SDA07H0SKD
	7	19.76	CKN6084-NDΔ ***NEW!***	2.02	1.62	1.28	SDA07H0SBD
	8	22.26	CKN1322-ND	2.20	1.77	1.40	SDA08H0SKD
	8	22.26	CKN6090-NDΔ ***NEW!***	2.20	1.77	1.40	SDA08H0SBD
	9	24.84	CKN1323-ND	2.45	1.96	1.56	SDA09H0SKD
	9	24.84	CKN6095-NDΔ ***NEW!***	2.45	1.96	1.56	SDA09H0SBD
	10	27.34	CKN1324-ND	2.60	2.09	1.65	SDA10H0SKD
	10	27.34	CKN6101-NDΔ ***NEW!***	2.60	2.09	1.65	SDA10H0SBD
	12	32.50	CKN1325-ND	2.88	2.31	1.83	SDA12H0SKD
	12	32.50	CKN6107-NDΔ ***NEW!***	2.88	2.31	1.83	SDA12H0SBD

SMT Top Slide with Flush Actuator — Tape Sealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
2	2	7.06	CKN1326-ND	1.71	1.38	1.09	SDA02H0SK
	2	7.06	CKN6053-NDΔ ***NEW!***	1.71	1.38	1.09	SDA02H0SB
	3	9.60	CKN1327-ND	1.81	1.45	1.15	SDA03H0SK
	3	9.60	CKN6059-NDΔ ***NEW!***	1.81	1.45	1.15	SDA03H0SB
	4	12.10	CKN1328-ND	1.87	1.50	1.19	SDA04H0SK
	4	12.10	CKN6065-NDΔ ***NEW!***	1.87	1.50	1.19	SDA04H0SB
	5	14.68	CKN1329-ND	1.96	1.57	1.25	SDA05H0SK
	5	14.68	CKN6071-NDΔ ***NEW!***	1.96	1.57	1.25	SDA05H0SB
	6	17.18	CKN1330-ND	2.05	1.64	1.30	SDA06H0SK
	6	17.18	CKN6077-NDΔ ***NEW!***	2.05	1.64	1.30	SDA06H0SB
	7	19.76	CKN1331-ND	2.14	1.72	1.36	SDA07H0SK
	7	19.76	CKN6083-NDΔ ***NEW!***	2.14	1.72	1.36	SDA07H0SB
	8	22.26	CKN1332-ND	2.36	1.89	1.50	SDA08H0SK
	8	22.26	CKN6089-NDΔ ***NEW!***	2.36	1.89	1.50	SDA08H0SB
	9	24.84	CKN1333-ND	2.60	2.09	1.65	SDA09H0SK
	9	24.84	CKN6094-NDΔ ***NEW!***	2.60	2.09	1.65	SDA09H0SB
	10	27.34	CKN1334-ND	2.72	2.18	1.73	SDA10H0SK
	10	27.34	CKN6100-NDΔ ***NEW!***	2.72	2.18	1.73	SDA10H0SB
	12	32.50	CKN1335-ND	3.00	2.40	1.90	SDA12H0SK
	12	32.50	CKN6106-NDΔ ***NEW!***	3.00	2.40	1.90	SDA12H0SB

Side Actuated DIP — Unsealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
3	2	7.11	CKN1336-ND	1.32	1.06	.84	BPA02K
	2	7.11	CKN6138-NDΔ ***NEW!***	1.32	1.06	.84	BPA02B
	4	12.19	CKN1337-ND	1.50	1.20	.95	BPA04K
	4	12.19	CKN6140-NDΔ ***NEW!***	1.50	1.20	.95	BPA04B
	5	14.68	CKN1338-ND	1.59	1.28	1.01	BPA05K
	5	14.68	CKN6142-NDΔ ***NEW!***	1.59	1.28	1.01	BPA05B
	6	17.30	CKN1339-ND	1.78	1.43	1.13	BPA06K
	6	17.30	CKN6144-NDΔ ***NEW!***	1.78	1.43	1.13	BPA06B
	8	22.30	CKN1341-ND	1.84	1.47	1.17	BPA08K
	8	22.30	CKN6146-NDΔ ***NEW!***	1.84	1.47	1.17	BPA08B
	9	24.84	CKN1342-ND	1.95	1.56	1.24	BPA09K
	10	27.43	CKN1343-ND	2.08	1.67	1.32	BPA10K
	10	27.43	CKN6148-NDΔ ***NEW!***	2.08	1.67	1.32	BPA10B

SMT Side Actuated DIP — Unsealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
4	2	7.11	CKN1344-ND	1.37	1.10	.87	BPA02SK
	2	7.11	CKN6139-NDΔ ***NEW!***	1.37	1.10	.87	BPA02SB
	4	12.19	CKN6141-NDΔ ***NEW!***	1.65	1.33	1.05	BPA04SB
	5	14.68	CKN1346-ND	1.74	1.40	1.11	BPA05SK
	5	14.68	CKN6143-NDΔ ***NEW!***	1.74	1.40	1.11	BPA05SB
	6	17.30	CKN1347-ND	1.96	1.57	1.25	BPA06SK
	6	17.30	CKN6145-NDΔ ***NEW!***	1.96	1.57	1.25	BPA06SB
	8	22.30	CKN1349-ND	2.02	1.62	1.28	BPA08SK
	8	22.30	CKN6147-NDΔ ***NEW!***	2.02	1.62	1.28	BPA08SB
	10	27.43	CKN1351-ND	2.30	1.84	1.46	BPA10SK
	10	27.43	CKN6149-NDΔ ***NEW!***	2.30	1.84	1.46	BPA10SB

Top Slide Single In-Line SIP — Unsealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
5	4	12.66	CKN1352-ND	2.30	1.84	1.46	SP02
	4	12.66	CKN1353-ND	2.60	2.09	1.65	SP04
	6	17.74	CKN1354-ND	3.03	2.43	1.92	SP06
	8	22.82	CKN1355-ND	3.52	2.82	2.23	SP08
	10	27.9	CKN1356-ND	4.44	3.55	2.82	SP10

Right Angle Single In-Line SIP — Unsealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
6	2	7.58	CKN1357-ND	3.21	2.58	2.04	SP02A
	4	12.66	CKN1358-ND	3.43	2.75	2.17	SP04A
	6	17.74	CKN1359-ND	4.13	3.31	2.62	SP06A
	8	22.82	CKN1360-ND	4.53	3.63	2.87	SP08A
	10	27.9	CKN1361-ND	4.90	3.92	3.11	SP10A

Top Slide, Extended Actuator — Unsealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
7	1	4.57	CKN6012-ND	1.59	1.28	1.01	BD01
	2	7.11	CKN3001-ND	1.62	1.30	1.03	BD02
	3	9.65	CKN3002-ND	1.62	1.30	1.03	BD03
	4	12.19	CKN3003-ND	1.78	1.43	1.13	BD04
	5	14.73	CKN3004-ND	1.81	1.45	1.15	BD05
	6	17.27	CKN3005-ND	1.87	1.50	1.19	BD06
	7	19.81	CKN3006-ND	1.96	1.57	1.25	BD07
	8	22.35	CKN3007-ND	2.02	1.62	1.28	BD08
	9	24.89	CKN3008-ND	2.11	1.69	1.34	BD09
	10	27.43	CKN3009-ND	2.17	1.74	1.38	BD10
	12	32.51	CKN3010-ND	2.33	1.86	1.48	BD12

Right Angle Slide, Extended Actuator — Unsealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
8	2	7.11	CKN3011-ND	2.75	2.21	1.75	BD02AV
	2	7.11	CKN6013-ND	2.75	2.21	1.75	BD02AV2
	3	9.65	CKN3012-ND	2.75	2.21	1.75	BD03AV
	4	12.19	CKN3013-ND	2.91	2.33	1.85	BD04AV
	4	12.19	CKN6014-ND	2.91	2.33	1.85	BD04AV2
	5	14.73	CKN3014-ND	2.94	2.35	1.87	BD05AV
	5	14.73	CKN6015-ND	2.94	2.35	1.87	BD05AV2
	6	17.27	CKN3015-ND	3.03	2.43	1.92	BD06AV
	6	17.27	CKN6016-ND	3.03	2.43	1.92	BD06AV2
	7	19.81	CKN3016-ND	3.09	2.48	1.96	BD07AV
	8	22.35	CKN3017-ND	3.15	2.53	2.00	BD08AV
	8	22.35	CKN6017-ND	3.15	2.53	2.00	BD08AV2
	9	24.89	CKN3018-ND	3.24	2.60	2.06	BD09AV
	10	27.43	CKN3019-ND	3.31	2.65	2.10	BD10AV
	12	32.51	CKN3020-ND	3.46	2.77	2.20	BD12AV

Side Actuated — Tape Sealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
9	1	5.23	CKN6018-ND	1.34	1.08	.85	BP01YT
	1	5.23	CKN6019- ND*	1.97	1.58	1.26	BP01KT
	2	7.77	CKN3021-ND	1.55	1.25	.99	BP02YT
	2	7.77	CKN6020-ND*	2.16	1.74	1.37	BP02KT
	3	10.31	CKN3022-ND	1.71	1.37	1.09	BP03YT
	4	12.85	CKN3023-ND	1.74	1.40	1.11	BP04YT
	4	12.85	CKN6021-ND*	2.36	1.89	1.50	BP04KT
	5	15.39	CKN3024-ND	1.84	1.48	1.17	BP05YT
	6	17.93	CKN3025-ND	2.03	1.63	1.29	BP06YT
	7	20.47	CKN3026-ND	2.09	1.68	1.33	BP07YT
	8	23.00	CKN3027-ND	2.09	1.68	1.33	BP08YT
	8	23.00	CKN6022-ND*	2.71	2.17	1.72	BP08KT
	10	28.09	CKN3028-ND	2.35	1.88	1.49	BP10YT
	12	33.17	CKN3029-ND	2.63	2.11	1.67	BP12YT

Side Actuated — Unsealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
9	1	5.23	CKN6023-ND*	1.78	1.43	1.13	BP01KE
	1	5.23	CKN6024-ND	1.14	.92	.73	BP01YE
	2	7.77	CKN6025-ND	1.37	1.10	.87	BP02YE
	3	10.31	CKN6026-ND*	2.14	1.72	1.36	BP03KE
	4	12.85	CKN6027-ND*	2.17	1.74	1.38	BP04KE
	5	15.39	CKN6028-ND*	2.27	1.82	1.44	BP05KE
	6	17.93	CKN6029-ND	1.85	1.48	1.17	BP06YE
	8	23.00	CKN6030-ND*	2.52	2.02	1.60	BP08KE
	8	23.00	CKN6031-ND	1.91	1.53	1.21	BP08YE

Low Profile Auto Insert — Tape Sealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
10	2	6.55	CKN3064-ND	1.35	1.08	.86	SD02H0K
	2	6.55	CKN6110-NDΔ ***NEW!***	1.35	1.08	.86	SD02H0B
	3	9.09	CKN3065-ND	1.41	1.13	.90	SD03H0K
	3	9.09	CKN6113-NDΔ ***NEW!***	1.41	1.13	.90	SD03H0B
	4	11.63	CKN3066-ND	1.47	1.18	.94	SD04H0K
	4	11.63	CKN6115-NDΔ ***NEW!***	1.47	1.18	.94	SD04H0B
	5	14.17	CKN3067-ND	1.53	1.23	.97	SD05H0K
	5	14.17	CKN6118-NDΔ ***NEW!***	1.53	1.23	.97	SD05H0B
	6	16.71	CKN3068-ND	1.59	1.28	1.01	SD06H0K
	6	16.71	CKN6120-NDΔ ***NEW!***	1.59	1.28	1.01	SD06H0B
	7	19.25	CKN3069-ND	1.68	1.35	1.07	SD07H0K
	7	19.25	CKN6122-NDΔ ***NEW!***	1.68	1.35	1.07	SD07H0B
	8	21.79	CKN3070-ND	1.87	1.50	1.19	SD08H0K
	8	21.79	CKN6125-NDΔ ***NEW!***	1.87	1.50	1.19	SD08H0B
	9	24.33	CKN3071-ND	2.02	1.62	1.28	SD09H0K
	9	24.33	CKN6131-NDΔ ***NEW!***	2.02	1.62	1.28	SD09H0B
	10	26.87	CKN3072-ND	2.17	1.74	1.38	SD10H0K
	10	26.87	CKN6133-NDΔ ***NEW!***	2.17	1.74	1.38	SD10H0B
	12	31.95	CKN3073-ND	2.36	1.89	1.50	SD12H0K
	12	31.95	CKN6136-NDΔ ***NEW!***	2.36	1.89	1.50	SD12H0B

Low Profile Auto Insert — Flush Act. — Tape Sealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
11	8	21.79	CKN6032-ND†	2.45	1.96	1.56	SD08H0SKD
	8	21.79	CKN6127-ND†Δ ***NEW!***	2.45	1.96	1.56	SD08H0SBD
	8	21.79	CKN6033CT-ND	3.05	2.82	2.58	SD08H0SKR
	8	21.79	CKN6033TR-ND	1407.00/1,000			SD08H0SKR
	8	21.79	CKN6128CT-NDΔ ***NEW!***	3.05	2.82	2.58	SD08H0SBR
	8	21.79	CKN6128TR-NDΔ ***NEW!***	1407.00/1,000			SD08H0SBR

Low Profile Auto Insert — Extended Act. — Tape Sealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
11	2	6.55	CKN6034-ND	1.90	1.52	1.21	SD02H1SK
	2	6.55	CKN6112-NDΔ ***NEW!***	1.90	1.52	1.21	SD02H1SB
	4	11.63	CKN6035-ND	1.32	1.06	.84	SD04H1SK
	4	11.63	CKN6117-NDΔ ***NEW!***	1.32	1.06	.84	SD04H1SB
	7	19.25	CKN6036-ND	2.39	1.92	1.52	SD07H1SK
	7	19.25	CKN6124-NDΔ ***NEW!***	2.39	1.92	1.52	SD07H1SB
	8	21.79	CKN6037-ND	2.60	2.09	1.65	SD08H1SK
	8	21.79	CKN6129-NDΔ ***NEW!***	2.60	2.09	1.65	SD08H1SB
	8	21.79	CKN6039-ND†	2.45	1.96	1.56	SD08H1SKD
	8	21.79	CKN6130-ND†Δ ***NEW!***	2.45	1.96	1.56	SD08H1SBD
	10	26.87	CKN6038-ND	3.03	2.43	1.92	SD10H1SK
	10	26.87	CKN6135-NDΔ ***NEW!***	3.03	2.43	1.92	SD10H1SB

Low Profile Surface Mount — Tape Sealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
11	2	6.55	CKN3054-ND	1.90	1.52	1.21	SD02H0SK
	2	6.55	CKN6111-NDΔ ***NEW!***	1.90	1.52	1.21	SD02H0SB
	3	9.09	CKN3055-ND	1.99	1.60	1.26	SD03H0SK
	3	9.09	CKN6114-NDΔ ***NEW!***	1.99	1.60	1.26	SD03H0SB
	4	11.63	CKN3056-ND	2.08	1.67	1.32	SD04H0SK
	4	11.63	CKN6116-NDΔ ***NEW!***	2.08	1.67	1.32	SD04H0SB
	5	14.17	CKN3057-ND	2.17	1.74	1.38	SD05H0SK
	5	14.17	CKN6119-NDΔ ***NEW!***	2.17	1.74	1.38	SD05H0SB
	6	16.71	CKN3058-ND	2.27	1.82	1.44	SD06H0SK
	6	16.71	CKN6121-NDΔ ***NEW!***	2.27	1.82	1.44	SD06H0SB
	7	19.25	CKN3059-ND	1.47	1.18	.94	SD07H0SK
	7	19.25	CKN6123-NDΔ ***NEW!***	1.47	1.18	.94	SD07H0SB
	8	21.79	CKN3060-ND	2.60	2.09	1.65	SD08H0SK
	8	21.79	CKN6126-NDΔ ***NEW!***	2.60	2.09	1.65	SD08H0SB
	9	24.33	CKN3061-ND	2.88	2.31	1.83	SD09H0SK
	9	24.33	CKN6132-NDΔ ***NEW!***	2.88	2.31	1.83	SD09H0SB
	10	26.87	CKN3062-ND	3.03	2.43	1.92	SD10H0SK
	10	26.87	CKN6134-NDΔ ***NEW!***	3.03	2.43	1.92	SD10H0SB
	12	31.95	CKN3063-ND	3.34	2.67	2.12	SD12H0SK
	12	31.95	CKN6137-NDΔ ***NEW!***	3.34	2.67	2.12	SD12H0SB

Half Pitch Surface Mount — TDA Series — Tape Sealed

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	25	100	ITT Part No.
12	2	3.67	CKN1362-ND	2.12	1.70	1.35	TDA02H0SK1
	4	6.21	CKN1363-ND	2.38	1.91	1.51	TDA04H0SK1
	6	8.75	CKN1364-ND	2.83	2.27	1.79	TDA06H0SK1
	8	11.29	CKN1365-ND	3.09	2.48	1.96	TDA08H0SK1
	10	13.83	CKN1366-ND	4.56	3.65	2.89	TDA10H0SK1

* Gold Contacts † No Epoxy Seal Δ ***RoHS Compliant***

COPAL ELECTRONICS *NEW!* DIP Switches

CES Series
Features: • Excellent contact stability by twin gold-plated contacts • Fine click action **Specifications:** • Operating Temperature: -40°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Max. Contact Resistance: 50mΩ

CHS Series
Features: • Meets EIAJ SOP standard outline dimensions (B type) • Low profile design of 2.5mm • Excellent contact stability by twin gold-plated contact **Specifications:** • Operating Temperature: -40°C ~ 85°C • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Max. Contact Resistance: 50mΩ

CHP Series
Features: • High-reliability **Specifications:** • Operating Temperature: -40°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Max. Contact Resistance: 50mΩ

CVS Series
Features: • Low profile design of 1.45mm • Fine pitch of 1mm • Easy motion with knob height of 0.2mm **Specifications:** • Operating Temperature: -40°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Max. Contact Resistance: 200mΩ

Fig. 1 — CES Series

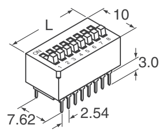

Fig. 2 — CHS Series, J-Lead Type

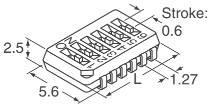

Fig. 3 — CHS Series, Gull Wing Type

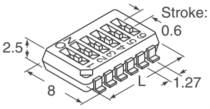

Fig. 4 — CHP Series, J-Lead Type

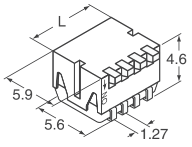

Fig. 5 — CHP Series, Gull Wing Type

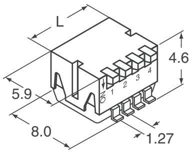

Fig. 6 — CVS Series, Gull Wing Type

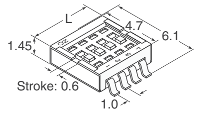

Fig.	Number of Positions	Dimension L (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Copal Electronics Part No.
CES Series, Through-hole Type										
1	4	12.74	563-1000-5-ND†	2.33	1.40	1.23	—	—	—	CES-0402MC
	6	17.82	563-1001-5-ND†	2.60	1.56	1.36	—	—	—	CES-0602MC
	8	22.9	563-1002-5-ND†	2.85	1.75	1.52	—	—	—	CES-0802MC
CHS Series, J-Lead Type										
2	1	2.5	563-1003-1-ND	1.51	.98	.74	563-1003-2-ND	1,000	648.00	CHS-01TA
	2	4.1	563-1005-1-ND	2.95	1.90	1.44	563-1005-2-ND	500	632.00	CHS-02TA
	4	6.6	563-1007-1-ND	2.72	1.82	1.46	563-1007-2-ND	500	680.50	CHS-04TA
	6	9.2	563-1009-1-ND	3.11	2.08	1.66	563-1009-2-ND	500	751.50	CHS-06TA
	8	11.7	563-1011-1-ND	3.30	2.21	1.77	563-1011-2-ND	500	798.50	CHS-08TA
	10	14.3	563-1013-1-ND	3.63	2.42	1.94	563-1013-2-ND	500	877.00	CHS-10TA
CHS Series, Gull Wing Type										
3	1	2.5	563-1004-1-ND	1.51	.98	.74	563-1004-2-ND	1,000	648.00	CHS-01TB
	2	4.1	563-1006-1-ND	2.95	1.90	1.44	563-1006-2-ND	500	632.00	CHS-02TB
	4	6.6	563-1008-1-ND	2.72	1.82	1.46	563-1008-2-ND	500	680.50	CHS-04TB
	6	9.2	563-1010-1-ND	3.11	2.08	1.66	563-1010-2-ND	500	751.50	CHS-06TB
	8	11.7	563-1012-1-ND	3.30	2.21	1.77	563-1012-2-ND	500	798.50	CHS-08TB
	10	14.3	563-1014-1-ND	3.63	2.42	1.94	563-1014-2-ND	500	877.00	CHS-10TB
CHP Series, J-Lead Type										
4	2	4.6	563-1015-1-ND	2.95	1.90	1.44	563-1015-2-ND	500	632.00	CHP-021TA
	4	7.1	563-1017-1-ND	2.72	1.82	1.46	563-1017-2-ND	500	680.50	CHP-041TA
	8	12.2	563-1019-1-ND	3.30	2.21	1.77	563-1019-2-ND	500	798.50	CHP-081TA
CHP Series, Gull Wing Type										
5	2	4.6	563-1016-1-ND	2.95	1.90	1.44	563-1016-2-ND	500	632.00	CHP-021TB
	4	7.1	563-1018-1-ND	2.72	1.82	1.46	563-1018-2-ND	500	680.50	CHP-041TB
	8	12.2	563-1020-1-ND	3.30	2.21	1.77	563-1020-2-ND	500	798.50	CHP-081TB
CVS Series, Gull Wing Type										
6	4	5	563-1041-1-ND	3.56	2.38	1.91	563-1041-2-ND	2,000	1634.00/M	CVS-04TB
	8	9	563-1042-1-ND	4.63	3.09	2.48	563-1042-2-ND	2,000	2085.00/M	CVS-08TB

† Bulk

NEW! Slide Switches

CJS Series Features: • Easy to set slider with line marking • Compatible with most automatic pick and place machinery • Compact and space saving SMD type **Specifications:** • Operating Temperature: -40°C ~ 85°C • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Max. Contact Resistance: 100mΩ

CRFS Series
Features: • Can cover the DC - 1GHz frequency spectrum • Gold-plated contact provides excellent reliability **Specifications:** • Operating Temperature: -40°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 12VDC @ 100mA • Max. Contact Resistance: 70mΩ

Fig. 1 — CJS-120xTA Series

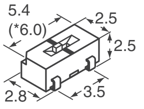

*6.0: CJS-1201TA

Fig. 2 — CJS-120xTB Series

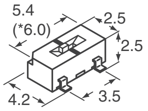

*6.0: CJS-1201TB

A.

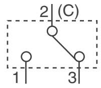

B.

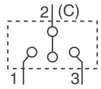

Fig. 3 — CRFS-2202W

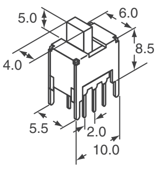

Fig. 4 — CRFS-2302W

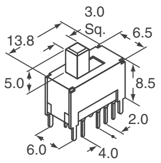

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Copal Electronics Part No.
CJS Series									
1A	SPDT, J-Lead	563-1021-1-ND	1.29	.83	.63	563-1021-2-ND	1,000	551.00	CJS-1200TA
1B	SPDT, J-Lead with Neutral Detent	563-1023-1-ND	1.70	1.10	.83	563-1023-2-ND	1,000	729.00	CJS-1201TA
2A	SPDT, Gull Wing	563-1022-1-ND	1.29	.83	.63	563-1022-2-ND	1,000	551.00	CJS-1200TB
2B	SPDT, Gull Wing with Neutral Detent	563-1024-1-ND	1.70	1.10	.83	563-1024-2-ND	1,000	729.00	CJS-1201TB
CRFS Series									
3	DPDT	563-1025-ND†	3.51	2.18	1.98	—	—	—	CRFS-2202W
4	DP3T	563-1026-ND†	3.88	2.42	2.19	—	—	—	CRFS-2302W

† Bulk

COPAL ELECTRONICS *NEW!* Rotary Switches

RoHS COMPLIANT

CS-32 Series Features: • Optimum for high density board mounting applications • Compatible with most automatic pick and place machinery • Protection against dust and washable after soldering **Specifications:** • Operating Temperature: -40°C ~ 85°C • Stepping Angle 250° ± 15° • Max. Contact Rating: 0.5VA or 16V @ 100mA • Max. Contact Resistance: 2Ω **CS-4 Series Features:** • Optimum for high density board mounting applications • Compatible with reflow and wave soldering • Protection against dust and washable after soldering • Excellent reliability due to precious metal contact **Specifications:** • Operating Temperature: -25°C ~ 70°C • Max. Contact Rating: 0.5VA or 16V @ 100mA • Max. Contact Resistance: 100mΩ **S-1000A/2000A Series Features:** • Pin compatible with conventional DIP switches **Specifications:** • Operating Temperature: -25°C ~ 70°C • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 5VDC @ 100mA • Max. Contact Resistance: 100mΩ **S-8000 Series Features:** • 3 bits 8 position type • Protection against dust and washable after soldering • DIP pin configuration: 2.54mm pitch **Specifications:** • Operating Temperature: -25°C ~ 70°C • Stepping Angle: 45° • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 5VDC @ 100mA • Max. Contact Resistance: 100mΩ **SD-1000/2000 Series Features:** • Fine click with metallic spring • Low profile of 3.9mm makes it perfect for high density board mounting applications • Gold-plated contact provides excellent reliability **Specifications:** • Operating Temperature: -25°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 5VDC @ 100mA • Max. Contact Resistance: 100mΩ **SS-10/S-2050 Series Features:** • Compact-size DIP pin configuration • Protection against dust and washable after soldering • Self-cleaning mechanism **Specifications:** • Operating Temperature: -25°C ~ 70°C • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 5VDC @ 100mA • Max. Contact Resistance: 100mΩ

Fig. 1

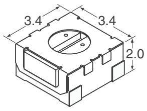

J-Lead version shown

Fig. 2

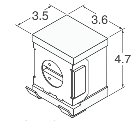

J-Lead version shown

Fig. 3

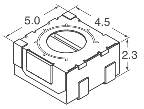

J-Lead version shown

Fig. 4

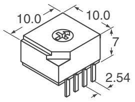

Fig. 5

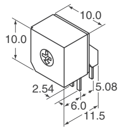

Fig. 6

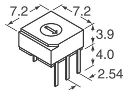

Fig. 7

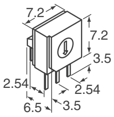

Fig. 8

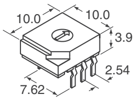

Fig. 9

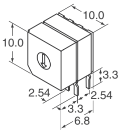

Fig. 10

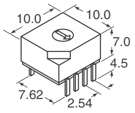

Fig. 11

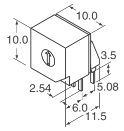

Fig.	Number of Contacts	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Copal Electronics Part No.
		CS-32 Series								
1	2	SPDT, J-Lead	563-1027-1-ND	3.10	2.00	1.51	563-1027-2-ND	500	664.00	CS-32-12ZETA
	2	SPDT, Gull Wing	563-1028-1-ND	3.10	2.00	1.51	563-1028-2-ND	500	664.00	CS-32-12ZETB
2	2	SPDT, J-Lead	563-1029-1-ND	3.11	2.08	1.66	563-1029-2-ND	500	751.50	CS-32-12ZETG
	2	SPDT, Gull Wing	563-1030-1-ND	3.11	2.08	1.66	563-1030-2-ND	500	751.50	CS-32-12ZETH
		CS-4 Series, J-Lead Type								
3	2	SPDT, Non-shorting	563-1031-1-ND	3.02	1.95	1.47	563-1031-2-ND	500	648.00	CS-4-12XTA
	2	SPDT, Non-shorting with Detent	563-1033-1-ND	3.02	1.95	1.47	563-1033-2-ND	500	648.00	CS-4-12YTA
	3	SP3T, Non-shorting	563-1035-1-ND	2.75	1.84	1.47	563-1035-2-ND	500	688.50	CS-4-13NTA
	4	SP4T, Non-shorting	563-1037-1-ND	3.24	2.16	1.73	563-1037-2-ND	500	783.00	CS-4-14NTA
	2	DPDT, Non-shorting with Detent	563-1039-1-ND	3.89	2.60	2.08	563-1039-2-ND	500	939.50	CS-4-22YTA
		CS-4 Series, Gull Wing Type								
3	2	SPDT, Non-shorting	563-1032-1-ND	3.02	1.95	1.47	563-1032-2-ND	500	648.00	CS-4-12XTB
	2	SPDT, Non-shorting with Detent	563-1034-1-ND	3.02	1.95	1.47	563-1034-2-ND	500	648.00	CS-4-12YTB
	3	SP3T, Non-shorting	563-1036-1-ND	2.75	1.84	1.47	563-1036-2-ND	500	688.50	CS-4-13NTB
	4	SP4T, Non-shorting	563-1038-1-ND	3.24	2.16	1.73	563-1038-2-ND	500	783.00	CS-4-14NTB
	2	DPDT, Non-shorting with Detent	563-1040-1-ND	3.89	2.60	2.08	563-1040-2-ND	500	939.50	CS-4-22YTB

Fig.	Number of Positions	Description	Digi-Key Part No.	Price Each 1	25	100	Copal Electronics Part No.
		S-1000A/2000A Series					
4	16	Real Hexadecimal	563-1043-ND	4.54	2.84	2.60	S-1010A
	16	Hexadecimal Complementary	563-1045-ND	4.54	2.84	2.60	S-1030A
	16	Real Hexadecimal	563-1047-ND*	4.69	2.93	2.68	S-1110A
	10	Real BCD	563-1048-ND	4.54	2.84	2.60	S-2010A
	10	BCD Complementary	563-1050-ND	4.54	2.84	2.60	S-2030A
	10	Real BCD	563-1052-ND*	4.69	2.93	2.68	S-2110A
5	16	Real Hexadecimal	563-1044-ND	4.69	2.93	2.68	S-1011A
	16	Hexadecimal Complementary	563-1046-ND	4.69	2.93	2.68	S-1031A
	10	Real BCD	563-1049-ND	4.69	2.93	2.68	S-2011A
	10	BCD Complementary	563-1051-ND	4.69	2.93	2.68	S-2031A
		S-8000 Series					
6	8	Real BCO	563-1053-ND	4.13	2.57	2.33	S-8010
	8	BCO Complementary	563-1055-ND	4.13	2.57	2.33	S-8030
	8	Real BCO	563-1057-ND*	4.30	2.68	2.42	S-8110
	8	BCO Complementary	563-1059-ND*	4.30	2.68	2.42	S-8130
7	8	Real BCO	563-1054-ND	4.13	2.57	2.33	S-8011
	8	BCO Complementary	563-1056-ND	4.13	2.57	2.33	S-8031
	8	Real BCO	563-1058-ND*	4.30	2.68	2.42	S-8111
	8	BCO Complementary	563-1060-ND*	4.30	2.68	2.42	S-8131
		SD-1000/2000 Series					
8	16	Real Hexadecimal	563-1061-ND	3.00	1.85	1.64	SD-1010
	16	Hexadecimal Complementary	563-1063-ND	3.00	1.85	1.64	SD-1030
	16	Real Hexadecimal	563-1065-ND*	3.40	2.10	1.85	SD-1110
	16	Hexadecimal Complementary	563-1067-ND*	3.40	2.10	1.85	SD-1130
	10	Real BCD	563-1069-ND	3.00	1.85	1.64	SD-2010
	10	BCD Complementary	563-1071-ND	3.00	1.85	1.64	SD-2030
	10	Real BCD	563-1073-ND*	3.40	2.10	1.85	SD-2110
	10	BCD Complementary	563-1075-ND*	3.40	2.10	1.85	SD-2130
9	16	Real Hexadecimal	563-1062-ND	3.18	1.97	1.73	SD-1011
	16	Hexadecimal Complementary	563-1064-ND	3.40	2.10	1.85	SD-1031
	16	Real Hexadecimal	563-1066-ND*	3.60	2.22	1.96	SD-1111
	16	Hexadecimal Complementary	563-1068-ND*	3.60	2.22	1.96	SD-1131
	10	Real BCD	563-1070-ND	3.18	1.97	1.73	SD-2011
	10	BCD Complementary	563-1072-ND	3.40	2.10	1.85	SD-2031
	10	Real BCD	563-1074-ND*	3.60	2.22	1.96	SD-2111
	10	BCD Complementary	563-1076-ND*	3.60	2.22	1.96	SD-2131
		SS-10 Series					
10	5	SP5T, Shorting	563-1077-ND	3.44	2.13	1.87	SS-10-15SPE
	5	SP5T, Shorting	563-1078-ND*	4.04	2.51	2.28	SS-10-15SP-LE
	6	SP6T, Non-shorting	563-1079-ND	3.44	2.13	1.87	SS-10-16NPE
	6	SP6T, Non-shorting	563-1080-ND*	4.04	2.51	2.28	SS-10-16NP-LE
	6	SP6T, Shorting	563-1081-ND	3.44	2.13	1.87	SS-10-16SP-AE
	6	SP6T, Shorting	563-1082-ND*	4.04	2.51	2.28	SS-10-16SP-L-AE
	3	DP3T, Non-shorting	563-1083-ND	4.28	2.66	2.41	SS-10-23NPE
	3	DP3T, Non-shorting	563-1084-ND*	4.68	2.93	2.68	SS-10-23NP-LE
		S-2050 Series					
10	4	SP4T	563-1085-ND	4.42	2.85	2.53	S-2050
	4	SP4T	563-1087-ND*	4.99	3.12	2.85	S-2150
11	4	SP4T	563-1086-ND	4.42	2.85	2.53	S-2051
	4	SP4T	563-1088-ND*	4.99	3.12	2.85	S-2151
Knob for S-1000A, S-2000A and SS-10 Series			563-1089-ND	1.44	.80	.69	K1

* Has knob with extended shaft

CTS DIP Switches

Electrical Specifications:

Initial Contact Resistance: 25mΩ (209, 219 Series); 50mΩ (193, 194, 204, and 206 Series); 100mΩ (195, 208, and 218 Series).

Maximum Contact Resistance: 100mΩ after 10,000 cycles switching 50mA @ 24VDC (206 Series); 100mΩ after 7,000 cycles switching 50mA @ 24VDC (193 and 194 Series); 500mΩ after 2,000 cycles switching 50mA @ 24VDC (195 Series); 500mΩ after 2,000 cycles switching 50mA @ 15VDC or 100mΩ after 1,000 cycles switching 25mA @ 24VDC (208 Series); 50mΩ maximum at end of life (209 and 219 Series). Gold finish refers to internal contact area of the switch, terminals are solder coated.

Maximum Non-Switching Rating: 100mA or 50VDC.

Insulation Resistance: Across open switch and between adjacent closed switches - $1 \times 10^9\Omega$ (218 Series: 100mΩ minimum).

Dielectric Breakdown: 500VDC maximum for 1 minute (218 Series – 300VDC maximum).

Switch Capacitance: Between adjacent switches maximum - 5.0pF (218 Series: 10pF).

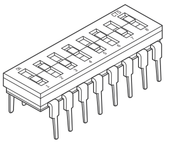

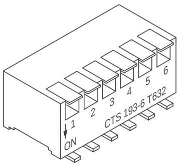

Shock: Per MIL-STD-202F, method 213B, condition A with no contact inconsistencies greater than 1μsec (206, 208, 209, 218 and 219 Series); no mechanical damage or changes of switch settings with 25G applied (193, 194, 195 and 204 Series).

Vibration: Per MIL-STD-202F, method 204D, condition B (.06" or 15G's between 10Hz to 2KHz) with no contact inconsistencies greater than 1μsec (204, 206, 208, 209, 218, and 219 Series). No mechanical damage or changes of switch settings during or after testing when tested in three mutually perpendicular planes at 10-50Hz sweep or at 60Hz constant vibration (193, 194 and 195 Series).

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	CTS Part No.
206 Series — SPST, Gold Finish, Lt. Blue Body							
1	2	7.26	CT2062-ND	1.28	11.73	106.65	206-2
	3	9.80	CT2063-ND	1.01	9.28	84.38	206-3
	4	12.34	CT2064-ND	.59	5.45	49.50	206-4
	5	14.88	CT2065-ND	.73	6.68	60.75	206-5
	6	17.42	CT2066-ND	1.09	9.97	90.68	206-6
	7	19.96	CT2067-ND	1.10	10.05	91.35	206-7
	8	22.50	CT2068-ND	.65	5.94	54.00	206-8
	9	25.04	CT2069-ND	1.06	9.73	88.43	206-9
	10	27.58	CT20610-ND	1.08	9.90	90.00	206-10
	12	32.66	CT20612-ND	1.24	11.39	103.50	206-12
206-ST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
1	2	7.26	CT2062ST-ND	1.36	12.47	113.40	206-2ST
	3	9.80	CT2063ST-ND	1.09	9.95	90.45	206-3ST
	4	12.34	CT2064ST-ND	.68	6.19	56.25	206-4ST
	5	14.88	CT2065ST-ND	.97	8.86	80.55	206-5ST
	6	17.42	CT2066ST-ND	.76	6.93	63.00	206-6ST
	7	19.96	CT2067ST-ND	1.27	11.61	105.53	206-7ST
	8	22.50	CT2068ST-ND	.73	6.68	60.75	206-8ST
	9	25.04	CT2069ST-ND	1.21	11.09	100.80	206-9ST
	10	27.58	CT20610ST-ND	1.03	9.41	85.50	206-10ST
	12	32.66	CT20612ST-ND	1.03	9.41	85.50	206-12ST
208 Series — SPST, Tin Finish, Black Body							
1	2	7.26	CT2082-ND	1.05	9.65	87.75	208-2
	3	9.80	CT2083-ND	.97	8.91	81.00	208-3
	4	12.34	CT2084-ND	.51	4.70	42.75	208-4
	5	14.88	CT2085-ND	.78	7.18	65.25	208-5
	6	17.42	CT2086-ND	.81	7.43	67.50	208-6
	7	19.96	CT2087-ND	.86	7.92	72.00	208-7
	8	22.50	CT2088-ND	.54	4.95	45.00	208-8
	9	25.04	CT2089-ND	.92	8.42	76.50	208-9
	10	27.58	CT20810-ND	1.00	9.16	83.25	208-10
	12	32.66	CT20812-ND	1.11	10.15	92.25	208-12
206-124 — SPDT, Gold Finish, Lt. Blue Body							
1	4	22.50	CT206124-ND	2.08	19.03	173.03	206-124
206-214 — DPST, Gold Finish, Lt. Blue Body							
1	4	22.50	CT206214-ND	1.62	14.87	135.23	206-214
194-MST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
2	2	7.26	CT1942MST-ND	1.40	12.87	117.00	194-2MST
	3	9.80	CT1943MST-ND	.95	8.66	78.75	194-3MST
	4	12.34	CT1944MST-ND	.86	7.92	72.00	194-4MST
	5	14.88	CT1945MST-ND	1.46	13.37	121.50	194-5MST
	6	17.42	CT1946MST-ND	1.35	12.38	112.50	194-6MST
	7	19.96	CT1947MST-ND	1.59	14.60	132.75	194-7MST
	8	22.50	CT1948MST-ND	.95	8.66	78.75	194-8MST
	9	25.04	CT1949MST-ND	1.70	15.59	141.75	194-9MST
	10	27.58	CT19410MST-ND	1.54	14.11	128.25	194-10MST
	12	32.66	CT19412MST-ND	1.89	17.33	157.50	194-12MST
195-MST Series — SPST, Tin Finish, Sealed, Black Body							
2	2	7.26	CT1952MST-ND	.81	7.43	67.50	195-2MST
	3	9.80	CT1953MST-ND	1.38	12.62	114.75	195-3MST
	4	12.34	CT1954MST-ND	.89	8.14	74.03	195-4MST
	5	14.88	CT1955MST-ND	1.30	11.88	108.00	195-5MST
	6	17.42	CT1956MST-ND	1.16	10.64	96.75	195-6MST
	7	19.96	CT1957MST-ND	1.40	12.87	117.00	195-7MST
	8	22.50	CT1958MST-ND	1.22	11.14	101.25	195-8MST
	9	25.04	CT1959MST-ND	1.51	13.86	126.00	195-9MST
	10	27.58	CT19510MST-ND	1.32	12.13	110.25	195-10MST
	12	32.66	CT19512MST-ND	1.59	14.60	132.75	195-12MST
CT206-RAST Series — SPST, Gold Finish, Sealed, Lt. Blue Body							
3	2	7.26	CT2062RAST-ND	1.64	15.00	136.35	206-2RAST
	3	9.80	CT2063RAST-ND	1.30	11.88	108.00	206-3RAST
	4	12.34	CT2064RAST-ND	1.03	9.41	85.50	206-4RAST
	5	14.88	CT2065RAST-ND	1.00	9.18	83.48	206-5RAST
	6	17.42	CT2066RAST-ND	1.27	11.63	105.75	206-6RAST
	7	19.96	CT2067RAST-ND	1.52	13.91	126.45	206-7RAST
	8	22.50	CT2068RAST-ND	1.27	11.63	105.75	206-8RAST
	9	25.04	CT2069RAST-ND	1.50	13.76	125.10	206-9RAST
	10	27.58	CT20610RAST-ND	1.93	17.65	160.43	206-10RAST
	12	32.66	CT20612RAST-ND	1.73	15.86	144.23	206-12RAST
209-LPST Series — SPST, Gold Finish, Flush, Sealed, Black Body							
4	2	6.55	CT2092LPST-ND	.68	6.19	56.25	209-2LPST
	3	9.09	CT2093LPST-ND	.73	6.68	60.75	209-3LPST
	4	11.63	CT2094LPST-ND	.57	5.20	47.25	209-4LPST
	5	14.17	CT2095LPST-ND	.92	8.42	76.50	209-5LPST
	6	16.71	CT2096LPST-ND	.73	6.68	60.75	209-6LPST
4	7	19.25	CT2097LPST-ND	1.08	9.90	90.00	209-7LSTPT
	8	21.79	CT2098LPST-ND	.73	6.68	60.75	209-8LPST
	9	24.33	CT2099LPST-ND	1.27	11.63	105.75	209-9LPST
	10	26.87	CT20910LPST-ND	1.35	12.38	112.50	209-10LPST
	12	31.95	CT20912LPST-ND	1.51	13.86	126.00	209-12LPST
209-MS Series — SPST, Gold Finish, Extended, Sealed, Black Body							
4	2	6.55	CT2092MS-ND	.65	5.94	54.00	209-2MS
	3	9.09	CT2093MS-ND	.70	6.44	58.50	209-3MS
	4	11.63	CT2094MS-ND	.78	7.18	65.25	209-4MS
	5	14.17	CT2095MS-ND	.89	8.17	74.25	209-5MS
	6	16.71	CT2096MS-ND	.97	8.91	81.00	209-6MS
	7	19.25	CT2097MS-ND	1.05	9.65	87.75	209-7MS
	8	21.79	CT2098MS-ND	1.13	10.40	94.50	209-8MS
	9	24.33	CT2099MS-ND	1.24	11.39	103.50	209-9MS
	10	26.87	CT20910MS-ND	1.32	12.13	110.25	209-10MS
	12	31.95	CT20912MS-ND	1.49	13.61	123.75	209-12MS
219-LPST Series — SPST, Gold Finish, Flush, Sealed, Brown Body							
5	2	6.55	CT2192LPST-ND	.58	5.30	48.15	219-2LPST
	3	9.09	CT2193LPST-ND	.78	7.18	65.25	219-3LPST
	4	11.63	CT2194LPST-ND	.59	5.45	49.50	219-4LPST
	5	14.17	CT2195LPST-ND	.95	8.66	78.75	219-5LPST
	6	16.71	CT2196LPST-ND	.87	8.02	72.90	219-6LPST
	7	19.25	CT2197LPST-ND	1.13	10.40	94.50	219-7LPST
	8	21.79	CT2198LPST-ND	.92	8.42	76.50	219-8LPST
	9	24.33	CT2199LPST-ND	1.30	11.88	108.00	219-9LPST
	10	26.87	CT21910LPST-ND	1.15	10.54	95.85	219-10LPST
	12	31.95	CT21912LPST-ND	1.54	14.11	128.25	219-12LPST
219-MST Series — SPST, Gold Finish, Extended, Sealed, Brown Body							
5	2	6.55	CT2192MST-ND	.49	4.46	40.50	219-2MST
	3	9.09	CT2193MST-ND	.78	7.18	65.25	219-3MST
	4	11.63	CT2194MST-ND	.59	5.45	49.50	219-4MST
	5	14.17	CT2195MST-ND	.95	8.66	78.75	219-5MST
	6	16.71	CT2196MST-ND	1.03	9.41	85.50	219-6MST
	7	19.25	CT2197MST-ND	1.13	10.40	94.50	219-7MST
	8	21.79	CT2198MST-ND	.95	8.66	78.75	219-8MST
	9	24.33	CT2199MST-ND	1.30	11.88	108.00	219-9MST
	10	26.87	CT21910MST-ND	1.35	12.38	112.50	219-10MST
	12	31.95	CT21912MST-ND	1.54	14.11	128.25	219-12MST
193 Series — SPST, Gold Finish, Brown Body							
6	2	7.26	CT1932MS-ND	1.95	15.57	137.61	193-2MS
	3	9.80	CT1933MS-ND	2.02	16.18	143.06	193-3MS
	4	12.34	CT1934MS-ND	1.78	14.25	130.63	193-4MS
	5	14.88	CT1935MS-ND	2.06	16.50	151.25	193-5MS
	6	17.42	CT1936MS-ND	2.09	16.74	148.01	193-6MS
	7	19.96	CT1937MS-ND	2.28	18.20	160.88	193-7MS
	8	22.50	CT1938MS-ND	1.97	15.79	139.59	193-8MS
204 Series — SPST, Tape Sealed, Gold Finish, Brown Body							
7	2	7.26	CT2042ST-ND	1.77	15.21	139.43	204-2ST
	3	9.80	CT2043ST-ND	1.79	14.28	126.23	204-3ST
	4	12.34	CT2044ST-ND	1.51	12.90	118.25	204-4ST
	5	14.88	CT2045ST-ND	1.58	13.50	123.75	204-5ST
	6	17.42	CT2046ST-ND	1.61	13.80	126.50	204-6ST
	7	19.96	CT2047ST-ND	1.68	14.40	132.00	204-7ST
	8	22.50	CT2048ST-ND	1.72	14.70	134.75	204-8ST
	9	25.04	CT2049ST-ND	1.79	15.30	140.25	204-9ST
	10	27.58	CT20410ST-ND	1.89	16.20	148.50	204-10ST
	12	32.66	CT20412ST-ND	2.07	17.70	162.25	204-12ST
204 Series — SPDT, Tape Sealed, Gold Finish, Brown Body							
7	1	7.26	CT204121ST-ND	2.03	17.40	159.50	204-121ST
	1	7.26	CT204121LPST-ND	2.17	18.60	170.50	204-121LPST
204 Series — DPST, Tape Sealed, Gold Finish, Brown Body							
7	1	7.26	CT204211ST-ND	1.54	12.32	108.90	204-211ST
	2	12.34	CT204212ST-ND	1.89	15.12	133.65	204-212ST
	3	17.42	CT204213ST-ND	2.03	17.40	159.50	204-213ST
	4	22.50	CT204214ST-ND	2.17	17.36	153.45	204-214ST
	5	27.58	CT204215ST-ND	2.20	18.30	167.75	204-215ST
	6	32.66	CT204216ST-ND	2.42	22.43	207.00	204-216ST
204 Series — DPDT, Tape Sealed, Gold Finish, Brown Body							
7	1	12.34	CT204221ST-ND	2.99	25.65	235.13	204-221ST
	2	22.50	CT204222ST-ND	1.89	15.12	133.65	204-222ST
	3	32.66	CT204223ST-ND	2.17	17.36	153.45	204-223ST
218 Series — SPST, Tape Sealed, Gold Finish, Brown Body							
8	2	3.71	CT2182LPST-ND	1.90	15.18	134.15	218-2LPST
	4	6.25	CT2184LPST-ND	1.89	15.12	133.65	218-4LPST
	6	8.79	CT2186LPST-ND	2.52	20.13	177.95	218-6LPST
	8	11.33	CT2188LPST-ND	3.25	25.98	229.68	218-8LPST
	10	13.87	CT21810LPST-ND	1.78	14.25	125.98	218-10LPST
	12	16.41	CT21812LPST-ND	2.98	27.35	248.63	218-12LPST

Fig. 1 - Top Actuated Slide

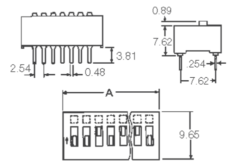

Fig. 2 - Side Actuated

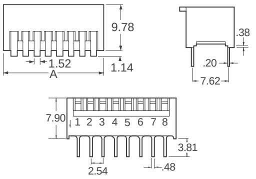

Fig. 3 - Right Angle Slide

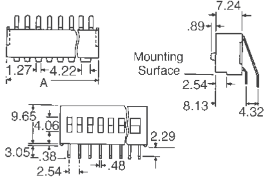

Fig. 4 - Top Actuated - Auto Dip

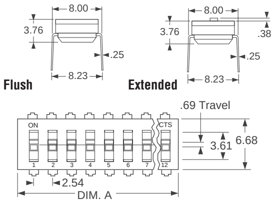

Fig. 5 - Surface Mount

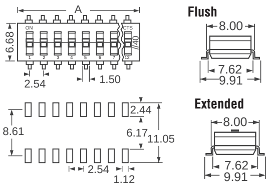

Fig. 6 - SMT Side Actuated

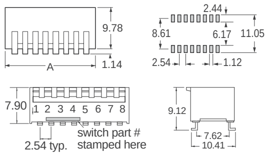

Fig. 7 - SMT Top Slide, Extended Act.

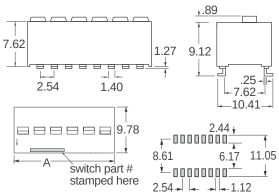

Standard model shown.
Low Profile also available (CT204121LPST-ND)

Fig. 8 - SMT Half Pitch, Recessed Actuated

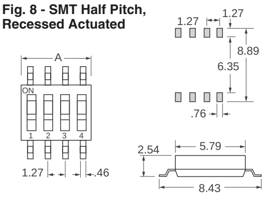

Grayhill DIP Switches

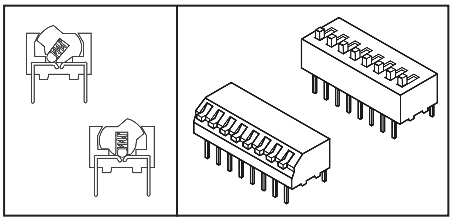

Grayhill's unique spring and ball contact design offers unparalleled reliability compared to conventional wiping contact designs. When actuated the ball rests between two contacts allowing multiple points of contact while the spring compression is at maximum pressure. Temperature, humidity and vibration have minimal affect on this design.

Specifications:

- **Mechanical Life per switch position:** 76/78 – 20,000; 90B – 5,000
- **Contact Resistance:** Initially ≤ 30mΩ
- **Insulation Resistance:** 5,000MΩ
- **Dielectric Strength:** 750V
- **Current Carry:** 3A
- **Switch Capacitance:** 2pF
- **Operating Temperature:** -40°C ~ 85°C
- **SMT Processing Temperature (90HBW, 90HBJ):** 260°C Maximum

Fig. 1 – Series 76 Rocker and Recessed Rocker

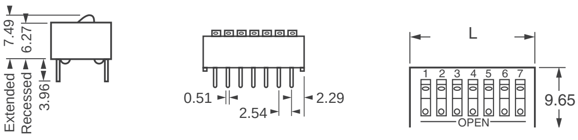

Fig. 2 – Series 76 Piano DIP

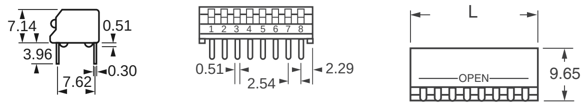

Fig. 3 – Series 78

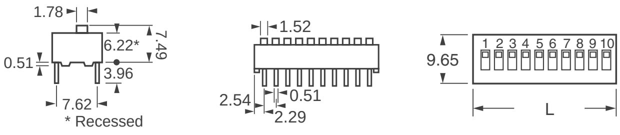

Fig. 4 – Series 90

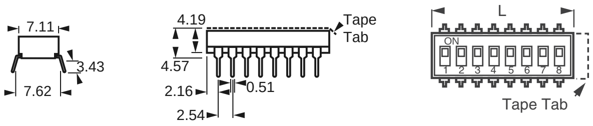

Fig. 5 – Series 90HBW, 90HBJ

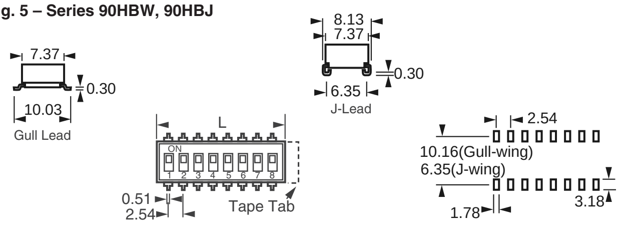

Fig. 6 – Series 76HP SMT Piano DIP

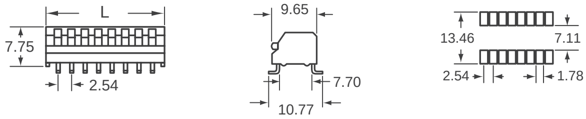

Fig. 7 – Series 97C Half Pitch

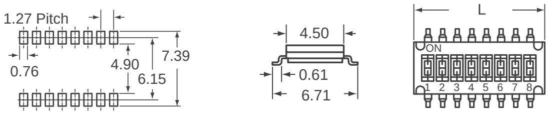

Fig. 8 – Series 97R Half Pitch

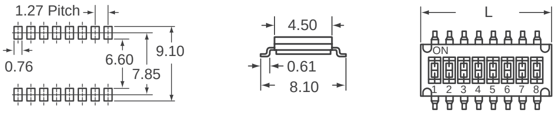

Fig.	No. of Pos.	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
			Raise Rocker Unsealed				
1	2	7.11	GH7115-ND◊	.92	.85	.77	76SB02T
	3	9.65	GH7168-ND◊ ***NEW!***	.92	.85	.77	76SB03T
	4	12.19	GH7170-ND◊	.92	.85	.77	76SB04T
	5	14.73	GH1105-ND	1.38	1.27	1.15	76SB05
	6	17.27	GH7174-ND◊	1.35	1.24	1.13	76SB06T
	7	19.81	GH1107-ND	1.43	1.32	1.20	76SB07
	7	19.81	GH7175-ND◊	1.43	1.32	1.20	76SB07T
	8	22.35	GH7177-ND◊ ***NEW!***	1.43	1.32	1.20	76SB08T
	9	24.89	GH1110-ND	1.43	1.32	1.20	76SB09
	10	27.43	GH7118-ND◊	1.51	1.39	1.26	76SB10T
	12	32.51	GH7120-ND◊	1.62	1.49	1.35	76SB12T
			Raise Rocker Sealed				
1	2	7.11	GH7114-ND◊	1.05	.97	.88	76SB02ST
	3	9.65	GH7167-ND◊ ***NEW!***	1.05	.97	.88	76SB03ST
	5	14.73	GH7171-ND◊ ***NEW!***	1.46	1.34	1.22	76SB05ST
	6	17.27	GH7173-ND◊	1.49	1.37	1.24	76SB06ST
	7	19.81	GH7116-ND◊	1.51	1.39	1.26	76SB07ST
	8	22.35	GH7176-ND◊	1.46	1.34	1.22	76SB08ST
	9	24.89	GH7178-ND◊	1.59	1.46	1.33	76SB09ST
1	10	27.43	GH7117-ND◊	1.62	1.49	1.35	76SB10ST
	12	32.51	GH7119-ND◊	1.70	1.56	1.42	76SB12ST
			Recessed Rocker Unsealed				
1	2	7.11	GH7150-ND◊ ***NEW!***	1.24	1.14	1.04	76RSB02T
	3	9.65	GH7152-ND◊ ***NEW!***	1.30	1.19	1.08	76RSB03T
	4	12.19	GH7154-ND◊	1.35	1.24	1.13	76RSB04T
	5	14.73	GH1275-ND	1.43	1.32	1.20	76RSB05
	5	14.73	GH7156-ND◊ ***NEW!***	1.43	1.32	1.20	76RSB05T
	6	17.27	GH7158-ND◊ ***NEW!***	1.46	1.34	1.22	76RSB06T
	7	19.81	GH1277-ND	1.46	1.34	1.22	76RSB07
	8	22.35	GH7162-ND◊ ***NEW!***	1.49	1.37	1.24	76RSB08T
	9	24.89	GH1279-ND	1.57	1.44	1.31	76RSB09
	10	27.43	GH7165-ND◊ ***NEW!***	1.57	1.44	1.31	76RSB10T
	12	32.51	GH1281-ND	1.62	1.49	1.35	76RSB12
	12	32.51	GH7166-ND◊ ***NEW!***	1.62	1.49	1.35	76RSB12T
			Recessed Rocker Sealed				
1	2	7.11	GH7149-ND◊	1.27	1.17	1.06	76RSB02ST
	3	9.65	GH7151-ND◊ ***NEW!***	1.32	1.22	1.11	76RSB03ST
	4	12.19	GH7153-ND◊	1.38	1.27	1.15	76RSB04ST
	5	14.73	GH7155-ND◊ ***NEW!***	1.46	1.34	1.22	76RSB05ST
1	6	17.27	GH7157-ND◊	1.49	1.37	1.24	76RSB06ST
	7	19.81	GH7159-ND◊	1.49	1.37	1.24	76RSB07ST
	8	22.35	GH7161-ND◊ ***NEW!***	1.51	1.39	1.26	76RSB08ST
	9	24.89	GH7163-ND◊	1.59	1.46	1.33	76RSB09ST
	10	27.43	GH7112-ND◊	1.59	1.46	1.33	76RSB10ST
	12	32.51	GH7113-ND◊	1.65	1.51	1.38	76RSB12ST
			PIANO DIP® Unsealed				
2	2	7.11	GH7132-ND◊	1.30	1.19	1.08	76PSB02T
	3	9.65	GH1214-ND	1.32	1.22	1.11	76PSB03
	4	12.19	GH7136-ND◊	1.08	.99	.90	76PSB04T
	5	14.73	GH7138-ND◊ ***NEW!***	1.38	1.27	1.15	76PSB05T
	6	17.27	GH7140-ND◊	1.22	1.12	1.02	76PSB06T
	7	19.81	GH7142-ND◊	1.38	1.27	1.15	76PSB07T
	9	24.89	GH1220-ND	1.54	1.42	1.29	76PSB09
	10	27.43	GH7148-ND◊ ***NEW!***	1.30	1.19	1.08	76PSB10T
	12	32.51	GH7111-ND◊	1.89	1.74	1.58	76PSB12T
			PIANO DIP® Sealed				
2	2	7.11	GH7131-ND◊ ***NEW!***	1.40	1.29	1.17	76PSB02ST
	3	9.65	GH7133-ND◊ ***NEW!***	1.43	1.32	1.20	76PSB03ST

◊ ***RoHS Compliant***

(Continued)

DIP Switches *(Cont.)*

Fig.	No. of Pos.	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
2	4	12.19	GH7135-ND◊ ***NEW!***	1.16	1.07	.97	76PSB04ST
	5	14.73	GH1206-ND	1.46	1.34	1.22	76PSB05S
	6	17.27	GH7139-ND◊ ***NEW!***	1.32	1.22	1.11	76PBS06ST
	7	19.81	GH1208-ND	1.59	1.46	1.33	76PSB07S
	8	22.35	GH7143-ND◊ ***NEW!***	1.40	1.29	1.17	76PSB08ST
	9	24.89	GH1210-ND	1.70	1.56	1.42	76PSB09S
	9	24.89	GH7145-ND◊ ***NEW!***	1.70	1.56	1.42	76PSB09ST
	10	27.43	GH7147-ND◊ ***NEW!***	1.49	1.37	1.24	76PSB10ST
	12	32.51	GH7110-ND◊	1.97	1.81	1.65	76PSB12ST
Raised Slide Switch, Unsealed							
3	2	7.11	GH7181-ND◊ ***NEW!***	1.05	.97	.88	78B02T
	4	12.19	GH7185-ND◊ ***NEW!***	.89	.82	.75	78B04T
	5	14.73	GH7187-ND◊ ***NEW!***	1.08	.99	.90	78B05T
	6	17.27	GH1237-ND	1.08	.99	.90	78B06
	6	17.27	GH7189-ND◊	1.08	.99	.90	78B06T
	7	19.81	GH7191-ND◊	1.08	.99	.90	78B07T
	9	24.89	GH7122-ND◊	1.03	.95	.86	78B09T
	12	32.51	GH1242-ND	1.24	1.14	1.04	78B12
Raised Slide Switch, Sealed							
3	2	7.11	GH7180-ND◊ ***NEW!***	1.05	.97	.88	78B02ST
	3	9.65	GH7182-ND◊ ***NEW!***	1.05	.97	.88	78B03ST
	4	12.19	GH7184-ND◊ ***NEW!***	.95	.87	.79	78B04ST
	6	17.27	GH7188-ND◊	1.24	1.14	1.04	78B06ST
	7	19.81	GH1228-ND	1.27	1.17	1.06	78B07S
	7	19.81	GH7190-ND◊ ***NEW!***	1.27	1.17	1.06	78B07ST
	9	24.89	GH7121-ND◊	1.13	1.04	.95	78B09ST
	10	27.43	GH7194-ND◊	1.24	1.14	1.04	78B10ST
	12	32.51	GH7196-ND◊ ***NEW!***	1.46	1.34	1.22	78B12ST
Recessed Slide Switch, Unsealed							
3	2	7.11	GH1252-ND	1.05	.97	.88	78RB02
	2	7.11	GH7201-ND◊ ***NEW!***	1.05	.97	.88	78RB02T
	3	9.65	GH1253-ND	1.05	.97	.88	78RB03
	5	14.73	GH1255-ND	1.08	.99	.90	78RB05
	5	14.73	GH7207-ND◊ ***NEW!***	1.08	.99	.90	78RB05T
	6	17.27	GH1256-ND	1.08	.99	.90	78RB06
3	7	19.81	GH7211-ND◊	1.08	.99	.90	78RB07T
	8	22.35	GH7213-ND◊	1.00	.92	.84	78RB08T
	9	24.89	GH7124-ND◊	1.03	.95	.86	78RB09T
	10	27.43	GH1260-ND	1.05	.97	.88	78RB10
	12	32.51	GH1261-ND	1.24	1.14	1.04	78RB12
Recessed Slide Switch, Sealed							
3	2	7.11	GH1243-ND	1.05	.97	.88	78RB02S
	3	9.65	GH7202-ND◊	1.05	.97	.88	78RB03ST
	4	12.19	GH7204-ND◊ ***NEW!***	.95	.87	.79	78RB04ST
	5	14.73	GH1246-ND	1.30	1.19	1.08	78RB05S
	5	14.73	GH7206-ND◊	1.30	1.19	1.08	78RB05ST
	7	19.81	GH7210-ND◊ ***NEW!***	1.27	1.17	1.06	78RB07ST
	8	22.35	GH7212-ND◊	1.05	.97	.88	78RB08ST
	9	24.89	GH1250-ND	1.13	1.04	.95	78RB09S
	9	24.89	GH7123-ND◊	1.13	1.04	.95	78RB09ST
	10	27.43	GH7214-ND◊	1.24	1.14	1.04	78RB10ST
Auto-Insertable Auto DIP Sealed							
4	3	9.40	GH7219-ND◊ ***NEW!***	.84	.77	.70	90B03ST
	4	11.9	GH7220-ND◊ ***NEW!***	.95	.87	.79	90B04ST
	6	17.02	GH7222-ND◊ ***NEW!***	1.19	1.09	.99	90B06ST
	7	19.56	GH1287-ND	1.24	1.14	1.04	90B07S
	8	22.10	GH1288-ND	1.16	1.07	.97	90B08S
	8	22.10	GH7224-ND◊	1.16	1.07	.97	90B08ST
	9	24.64	GH1289-ND	1.46	1.34	1.22	90B09S
	10	27.18	GH7226-ND◊	1.57	1.44	1.31	90B10ST
SMT Gull Lead Sealed							
5	2	6.86	GH7236-ND◊ ***NEW!***	.86	.80	.72	90HBW02PT
	3	9.40	GH7237-ND◊	.89	.82	.75	90HBW03PT
	4	11.94	GH1293-ND	1.00	.92	.84	90HBW04P
	4	11.94	GH7238-ND◊ ***NEW!***	1.00	.92	.84	90HBW04PT
	5	14.48	GH7239-ND◊	1.11	1.02	.93	90HBW05PT
	6	17.02	GH7240-ND◊	1.16	1.07	.97	90HBW06PT
5	7	19.56	GH1296-ND	1.27	1.17	1.06	90HBW07P
	9	24.64	GH7243-ND◊ ***NEW!***	1.49	1.37	1.24	90HBW09PT
	10	27.18	GH7244-ND◊	1.51	1.39	1.26	90HBW10PT
SMT J-Lead Sealed							
5	2	6.86	GH1300-ND	1.59	1.46	1.33	90HBJ02P
	4	11.94	GH1302-ND	1.40	1.29	1.17	90HBJ04P
	4	11.94	GH7229-ND◊ ***NEW!***	1.40	1.29	1.17	90HBJ04PT
	5	14.48	GH7230-ND◊ ***NEW!***	1.59	1.46	1.33	90HBJ05PT
	6	17.02	GH1304-ND	1.65	1.51	1.38	90HBJ06P
	6	17.02	GH7231-ND◊ ***NEW!***	1.65	1.51	1.38	90HBJ06PT
	7	19.56	GH1305-ND	1.67	1.54	1.40	90HBJ07P
	8	22.10	GH7233-ND◊	1.38	1.27	1.15	90HBJ08PT
	9	24.64	GH1307-ND	1.73	1.59	1.44	90HBJ09P
	10	27.18	GH1308-ND	1.59	1.46	1.33	90HBJ10P
Series 76HP PIANO DIP®							
6	2	7.1	GH1325TR-ND		792.75/500		76HPSB02GWR
	4	12.2	GH1326CT-ND	4.06	2.85	1.87	76HPSB04GWR
	4	12.2	GH1326TR-ND		817.25/500		76HPSB04GWR
	6	17.3	GH1327CT-ND	4.29	3.01	1.98	76HPSB06GWR
	6	17.3	GH1327TR-ND		863.63/500		76HPSB06GWR
	8	22.4	GH7128CT-ND◊	5.00	3.50	2.30	76HPSB08GWRT
	8	22.4	GH7128TR-ND◊		924.00/500		76HPSB08GWRT
	10	27.4	GH1329TR-ND		1006.25/500		76HPSB10GWR
	10	27.4	GH7109TR-ND◊		1006.25/500		76HPSB10GWRT
Series 97 Half Pitch							
7	2	3.76	GH1370-ND◊ ***NEW!***	3.17	2.22	1.46	97C02ST
	4	6.30	GH1371-ND◊ ***NEW!***	3.26	2.29	1.50	97C04ST
	8	11.38	GH1372-ND◊ ***NEW!***	3.43	2.41	1.58	97C08ST
	10	13.92	GH1333-ND	3.70	2.59	1.70	97C10S
8	2	3.76	GH1334-ND	3.17	2.22	1.46	97R02S
	4	6.30	GH1375-ND◊ ***NEW!***	3.26	2.29	1.50	97R04ST
Hand Tool for Dip Switch							
	Tool		GH1343-ND	1.00	—	.46	90-DIPSTICK

◊ ***RoHS Compliant***

Rotary DIP Switches

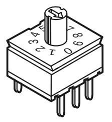

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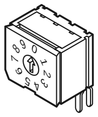

Right Angle/Flush

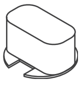

Knob for Extended Actuators

Switch Markings

BCD

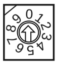

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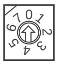

Hex

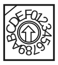

Specifications:

- **Mechanical Life:** 10,000 cycles
- **Make and Break Current Rating:** 30mA at 30 Vdc for 10,000 cycles of operation
- **Carrying Current Rating:** 100mA at 500Vdc
- **Contact Resistance:** 50mΩ maximum
- **Operating Temperature Range:** -25°C ~ 85°C

Materials and Finishes:

- **Rotor and Switch Body:** Plastic, rated at UL 94V-0
- **Contact Material:** Copper alloy gold over 30 microinches nickel
- **Terminals:** Copper alloy plated 150 microinches tin lead solder over nickel
- **Internal O-ring:** Silicon rubber

Flux Cleaning:

- Acceptable cleaning solutions include 1-1-1 Trichlorethane, Freon (TF, TE, or TMS), Isopropyl Alcohol, and detergent (140°F (60°C) maximum). Solutions which are not recommended include Acetone, Methylene Chloride, and Freon TMC.

***All Grayhill Dip Switches are shipped in tubes.**

Code and Positions	Type of Mounting	Type of Actuator	Digi-Key Part No.	Price Each 1	10	100	Grayhill Part No.
Rotary Switches							
Octal	SMT	Flush	GH1309-ND	3.02	2.78	2.52	94HAB08W
Octal	SMT	Flush	GH7250-ND◊	3.02	2.78	2.52	94HAB08WT
Octal	Thru-Hole	Flush	GH7249-ND◊	3.02	2.78	2.52	94HAB08T
Octal	Thru-Hole	Extended	GH1311-ND	3.02	2.78	2.52	94HBB08
Octal	Thru-Hole	Extended	GH7258-ND◊	3.02	2.78	2.52	94HBB08T
Octal	Right Angle	Flush	GH7248-ND◊	3.38	3.10	2.82	94HAB08RAT
Octal	Right Angle	Extended	GH7257-ND◊	3.38	3.10	2.82	94HBB08RAT
BCD	SMT	Flush	GH7253-ND◊	3.02	2.78	2.52	94HAB10WT
BCD	Thru-Hole	Flush	GH7252-ND◊	3.02	2.78	2.52	94HAB10T
BCD	Thru-Hole	Extended	GH7261-ND◊	3.02	2.78	2.52	94HBB10T
BCD	Right Angle	Flush	GH7251-ND◊	3.38	3.10	2.82	94HAB10RAT
BCD	Right Angle	Extended	GH7260-ND◊	3.38	3.10	2.82	94HBB10RAT
HEX	SMT	Flush	GH7256-ND◊	3.02	2.78	2.52	94HAB16WT
HEX	Thru-Hole	Flush	GH7255-ND◊	3.02	2.78	2.52	94HAB16T
HEX	Thru-Hole	Flush	GH7263-ND◊	3.02	2.78	2.52	94HBB16T
HEX	Right Angle	Flush	GH7254-ND◊	3.38	3.10	2.82	94HAB16RAT
HEX	Right Angle	Extended	GH7262-ND◊	3.38	3.10	2.82	94HBB16RAT
Knobs for Extended Actuators Only							
Black Knob, open window type			GH5005-ND	.76	—	.54	947705-001
Gray Knob, open window type			GH5006-ND	.76	—	.54	947705-012
Gray Knob, black arrowhead			GH5007-ND	.76	—	.54	947705-017

◊ ***RoHS Compliant***

DIP Switches

Fig.	No. of Cir.	Dim. A (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Alcoswitch Part No.
7000 Series – Side Actuated, Unsealed						
1	2	7.11	450-1192-ND	3.90	3.58	1-435802-0
	2	7.11	450-1348-ND◊ ***NEW!***	4.08	3.74	1-5435802-0
	3	9.65	450-1193-ND	4.98	4.57	435802-2
	3	9.65	450-1421-ND◊ ***NEW!***	4.98	4.57	5435802-2
	4	12.19	450-1422-ND◊ ***NEW!***	1.41	1.30	5435802-3
	5	14.73	450-1195-ND	1.50	1.38	435802-4
	5	14.73	450-1423-ND◊ ***NEW!***	1.50	1.38	5435802-4
	6	17.27	450-1196-ND	1.71	1.57	435802-5
	6	17.27	450-1424-ND◊ ***NEW!***	1.71	1.57	5435802-5
	8	22.35	450-1198-ND	1.86	1.80	435802-1
	8	22.35	450-1420-ND◊ ***NEW!***	1.86	1.71	5435802-1
	9	24.89	450-1425-ND◊ ***NEW!***	2.13	1.96	5435802-7
	10	27.43	450-1200-ND	2.16	1.98	435802-8
	10	27.43	450-1426-ND◊ ***NEW!***	2.16	1.98	5435802-8
7000 Series – Side Actuated, Plastisol Sealed						
1	4	12.19	450-1349-ND◊ ***NEW!***	1.59	1.46	1-5435802-5
	5	14.73	450-1202-ND	1.71	1.57	1-435802-6
	5	14.73	450-1350-ND◊ ***NEW!***	1.71	1.57	1-5435802-6
	6	17.27	450-1203-ND	1.86	1.71	1-435802-7
	6	17.27	450-1351-ND◊ ***NEW!***	1.86	1.71	1-5435802-7
	8	22.35	450-1205-ND	2.01	1.85	435802-9
	8	22.35	450-1427-ND◊ ***NEW!***	2.01	1.85	5435802-9
	10	27.43	450-1207-ND	2.28	2.09	2-435802-0
	10	27.43	450-1400-ND◊ ***NEW!***	2.28	2.09	2-5435802-0
	12	32.51	450-1208-ND	2.67	2.45	2-435802-2
	12	32.51	450-1401-ND◊ ***NEW!***	2.67	2.45	2-5435802-2
7100 Series – Standard Profile, Unsealed						
2	2	7.11	450-1396-ND◊ ***NEW!***	4.23	3.88	2-5435640-9
	3	9.65	450-1210-ND	3.03	2.78	3-435640-0
	3	9.65	450-1402-ND◊ ***NEW!***	3.03	2.78	3-5435640-0
	4	12.19	450-1211-ND	.77	.60	435640-2
	4	12.19	450-1414-ND◊ ***NEW!***	1.11	1.02	5435640-2
	5	14.73	450-1415-ND◊ ***NEW!***	1.26	1.16	5435640-3
	6	17.27	450-1416-ND◊ ***NEW!***	1.35	1.24	5435640-4
	7	19.81	450-1413-ND◊ ***NEW!***	1.50	1.38	5435640-1
	8	22.35	450-1215-ND	1.35	1.24	435640-5
	8	22.35	450-1417-ND◊ ***NEW!***	1.35	1.24	5435640-5
	9	24.89	450-1216-ND	1.77	1.63	435640-6
	9	24.89	450-1418-ND◊ ***NEW!***	1.77	1.63	5435640-6
	10	27.43	450-1217-ND	1.86	1.71	435640-7
	10	27.43	450-1419-ND◊ ***NEW!***	1.86	1.71	5435640-7
	12	32.51	450-1218-ND	2.37	2.18	3-435640-2
	12	32.51	450-1403-ND◊ ***NEW!***	2.37	2.18	3-5435640-2
7100 Series – Standard Profile, Plastisol Sealed						
2	4	12.19	450-1219-ND	1.29	1.19	3-435640-5
	4	12.19	450-1404-ND◊ ***NEW!***	1.29	1.19	3-5435640-5
	5	14.73	450-1220-ND	1.35	1.24	3-435640-6
	5	14.73	450-1405-ND◊ ***NEW!***	1.41	1.30	3-5435640-6
	6	17.27	450-1406-ND◊ ***NEW!***	1.50	1.38	3-5435640-7
	7	19.81	450-1407-ND◊ ***NEW!***	1.71	1.57	3-5435640-8
	8	22.35	450-1408-ND◊ ***NEW!***	1.71	1.57	3-5435640-9
	9	24.89	450-1224-ND	1.92	1.76	4-435640-0
	9	24.89	450-1411-ND◊ ***NEW!***	1.92	1.76	4-5435640-0
	10	27.43	450-1225-ND	2.01	1.85	4-435640-1
	10	27.43	450-1412-ND◊ ***NEW!***	2.01	1.85	4-5435640-1
7100 Series – Low Profile, Tape Sealed						
2	4	12.19	450-1232-ND	1.38	1.27	3-435668-4
	4	12.19	450-1410-ND◊ ***NEW!***	1.38	1.27	3-5435668-4
	6	17.27	450-1234-ND	1.71	1.57	2-435668-5
	6	17.27	450-1397-ND◊ ***NEW!***	1.71	1.57	2-5435668-5
	7	19.81	450-1235-ND	1.86	1.71	2-435668-7
	7	19.81	450-1398-ND◊ ***NEW!***	1.86	1.71	2-5435668-7
	8	22.35	450-1236-ND	1.83	1.68	2-435668-8
	8	22.35	450-1399-ND◊ ***NEW!***	1.83	1.68	2-5435668-8
	9	24.89	450-1237-ND	2.07	1.90	2-435668-9
2	10	27.43	450-1238-ND	2.16	1.98	3-435668-0
	10	27.43	450-1409-ND◊ ***NEW!***	2.16	1.98	3-5435668-0
7600 Series – Dip Shunt, Std Pressure						
3	4	10.16	450-1247-ND	.87	.80	435704-4
GDS Series – Low Profile, End to End Stackable						
4	4	10.02	450-1254-ND	1.86	1.71	GDS04
	4	10.02	450-1360-ND◊ ***NEW!***	1.95	1.79	GDS0404
	6	15.1	450-1255-ND	2.10	1.93	GDS06
	6	15.1	450-1362-ND◊ ***NEW!***	2.10	1.93	GDS0604
	8	20.18	450-1256-ND	2.70	2.48	GDS08
	8	20.18	450-1342-ND◊ ***NEW!***	2.70	2.48	GDS0804
5	4	10.02	450-1257-ND	2.01	1.85	GDS04S
	4	10.02	450-1361-ND◊ ***NEW!***	2.10	1.93	GDS04S04
	6	15.1	450-1258-ND	2.25	2.07	GDS06S
	6	15.1	450-1341-ND◊ ***NEW!***	2.25	2.07	GDS06S04
	8	20.18	450-1343-ND◊ ***NEW!***	2.25	2.07	GDS08S04
GDH Series – Low Profile, Half Pitch						
6	2	3.66	450-1260-ND	4.05	3.72	GDH02S
	2	3.66	450-1431-ND◊ ***NEW!***	3.18	2.92	GDH02S04
	4	6.2	450-1353-ND◊ ***NEW!***	3.99	3.66	GDH04S04
	6	8.75	450-1354-ND◊ ***NEW!***	4.47	4.10	GDH06S04
	8	11.29	450-1352-ND◊ ***NEW!***	4.80	4.40	GDH08S04
	10	13.82	450-1337-ND◊ ***NEW!***	5.40	4.95	GDH10S04
GDR Series – Recessed Rocker						
7	4	11.12	450-1265-ND	2.85	2.62	GDR04
	4	11.12	450-1437-ND◊ ***NEW!***	4.11	3.77	GDR0404
	6	16.2	450-1266-ND	3.12	2.86	GDR06
	6	16.2	450-1438-ND◊ ***NEW!***	4.50	4.13	GDR0604
	8	21.28	450-1267-ND	3.27	3.00	GDR08
	8	21.28	450-1439-ND◊ ***NEW!***	4.71	4.32	GDR0804
ADE Series – Extended Actuator Sealed						
8	2	7.06	450-1363-ND◊ ***NEW!***	1.11	1.02	ADE0204
	4	12.14	450-1269-ND	1.50	1.38	ADE04
	4	12.14	450-1364-ND◊ ***NEW!***	1.17	1.08	ADE0404
	6	17.22	450-1270-ND	1.89	1.74	ADE06
	6	17.22	450-1365-ND◊ ***NEW!***	1.47	1.35	ADE0604
	8	22.3	450-1366-ND◊ ***NEW!***	1.41	1.30	ADE0804
ADF Series – Flush Actuator Sealed						
8	2	7.06	450-1357-ND◊ ***NEW!***	1.11	1.02	ADF0204
	4	12.14	450-1273-ND	1.50	1.38	ADF04
	4	12.14	450-1358-ND◊ ***NEW!***	1.35	1.24	ADF0404
	6	17.22	450-1274-ND	1.89	1.74	ADF06
	6	17.22	450-1359-ND◊ ***NEW!***	1.41	1.30	ADF0604
	8	22.3	450-1275-ND	1.80	1.65	ADF08
	8	22.3	450-1339-ND◊ ***NEW!***	1.41	1.30	ADF0804
	10	27.38	450-1276-ND	2.28	2.09	ADF10
	10	27.38	450-1340-ND◊ ***NEW!***	1.80	1.65	ADF1004
ADP Series – Piano Actuator Sealed						
9	2	7.06	450-1277-ND	1.80	1.65	ADP02
	2	7.06	450-1355-ND◊ ***NEW!***	1.38	1.27	ADP0204
	4	12.14	450-1278-ND	2.34	2.15	ADP04
	4	12.14	450-1356-ND◊ ***NEW!***	1.83	1.68	ADP0404
	6	17.22	450-1279-ND	2.76	2.53	ADP06
	6	17.22	450-1338-ND◊ ***NEW!***	2.10	1.93	ADP0604
	8	22.3	450-1280-ND	3.15	2.89	ADP08
	8	22.3	450-1395-ND◊ ***NEW!***	2.49	2.29	ADP0804
SSV Series – SIP, End to End Stackable						
10	2	7.57	450-1281-ND	2.82	2.59	SSV02
	2	7.57	450-1461-ND◊ ***NEW!***	2.73	2.51	SSV0204
	4	12.65	450-1282-ND	3.18	2.92	SSV04
	4	12.65	450-1462-ND◊ ***NEW!***	3.18	2.92	SSV0404
	8	22.8	450-1283-ND	5.07	4.65	SSV08
	8	22.8	450-1463-ND◊ ***NEW!***	5.34	4.90	SSV0804

◊ ***RoHS Compliant***

Fig. 1 – Side Actuated

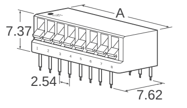

Fig. 2 – Top Actuated

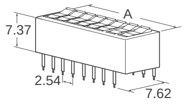

Fig. 3 – Dip Shunts

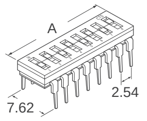

Fig. 4 – End to End Stackable

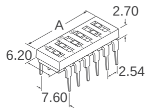

Fig. 5 – End to End Stackable

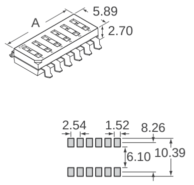

Fig. 6 – Half Pitch

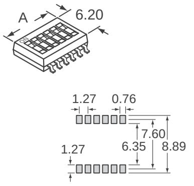

Fig. 7 – Recessed Rocker

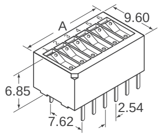

Fig. 8 – Extended Actuator

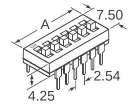

Fig. 9 – Piano Actuator

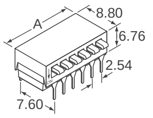

Fig. 10 – End to End Stackable

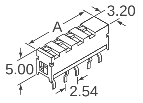

DIP Switches — Preprogrammed

Material: Glass-filled polyester, 94V-0 rated, black • **Contact:** Copper alloy with gold over nickel plating • **Voltage Rating:** 120V ms maximum • **Current Rating:** 1 amp maximum • **Contact Resistance:** 750mΩ maximum at 50mV open circuit • **Life Expectancy:** 500 revolutions • **Actuator:** Screwdriver slot

Switch Type	Tape Seal	Stamping Legend	Digi-Key Part No.	Price Each 1	Price Each 10	Alcoswitch Part No.
Hexadecimal with Complement	No	Style I	450-1186-ND	14.79	13.56	53137-5
Hexadecimal with Complement	Yes	Style I	450-1188-ND	14.46	13.26	54792-1
Hexadecimal with Complement	Yes	Style II	450-1189-ND	14.46	13.26	54792-2
BCD with Complement	No	Style III	450-1190-ND	13.77	12.63	53919-2
BCD with Complement	Yes	Style III	450-1191-ND	14.13	12.96	54778-1

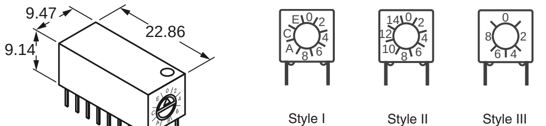

Style I
16 Position

Style II
16 Position

Style III
10 Position

Rotary Switches

Materials:

- **Contacts:** phosphor bronze, gold over nickel plated • **Dielectric Breakdown Voltage:** 500VDC minimum • **Insulation Resistance:** 1x10^{8}Ω • **Initial Contact Resistance:** 25mΩ • **Circuit Capacitance:** 5 picofarads (at 100KHz) • **Durability:** 1000 cycles

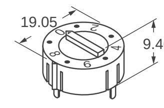

Description	No. of Pos.	Output Code Type	Digi-Key Part No.	Price Each 1	Price Each 10	Alcoswitch Part No.
6000 Series Rotary Switch						
Screwdriver/Coin Actuated	10	Single Pole	450-1182-ND	29.40	26.95	1-435097-1
Bar-Type Knob	10	BCD	450-1183-ND	44.43	40.73	435123-1
Bar-Type Knob	16	Hexadecimal	450-1184-ND	44.49	40.79	1-435167-1

Optical Rotary Encoders Series 61C

Features: • Competitively priced to similar electromechanical switches • Optically coupled for more than a million trouble-free operations • Has data entry pushbutton switch activated by switch shaft • Compatible with CMOS, TTL and HCMOS Logic • Operationally used to move display icon and input data • Used to set radio frequency, drill depth, RPM, etc. Plastic shaft and bushing.

Specifications: • **Dimensions:** • **Shaft:** .250" (6.35mm) diameter, .375" (9.52mm) long • **Pin Spacing:** .1" x .025" (2.54mm x .64mm) diameter • **Thread:** 3/8 – 32 • **Overall Diameter:** .750" (19.05mm) • **Encoder Ratings:** • **Operating Voltage:** 5 ±.25VDC • **Supply Current:** 30mA maximum at 5VDC • **Life:** 1 million cycles of operation, 1 cycle is rotation through all positions and a full return • **Rotational Torque:** 1.5 inch-ounces ± 30% • **Load Current:** 5mA maximum per channel • **Turn-On Time:** ≤30 mSec at 16.6 RPM • **Turn-Off Time:** ≤30 mSec at 16.6 RPM • **Pushbutton Switch Ratings:** • **Rating:** at 5VDC, 10mA, resistive • **Contact Resistance:** <10Ω • **Life Expectancy:** 3 million operations • **Contact Bounce:** <4 mSec at make <10 mSec at break • **Operating Temperature Range:** -40°C ~ 70°C.

Clockwise Rotation		
	Output	Output
Position	A	B
1	❍	❍
2	●	❍
3	●	●
4	❍	●

● indicates logic high.
❍ indicates logic low.
Code repeats every 4 positions

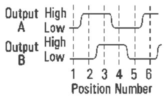

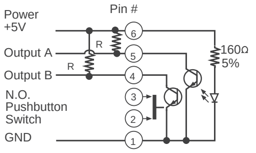

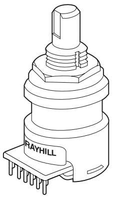

Position	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
16	GH6101-ND	20.96	16.77	12.58	11.32	61C22-01-04-02
32	GH6102-ND	20.96	16.77	12.58	11.32	61C11-01-08-02

Optical Rotary Encoders Series 62A, 62S

These low cost encoders offer long life (over 1 million operations) with small size and optional integrated pushbutton. These encoders are ideal for radio frequency setting, drill depth setting and other applications where detents are desired for operator feedback. Rugged metal shaft and bushing for long life. Mates with Amp Connector - 7-215079-6 Vertical and 7-215460-6 Right Angle.

Electrical Ratings: • **Operating Voltage:** 5 ±25VDC • **Supply Current:** 30 mA maximum at 5VDC • **Operating Torque:** 2.20 in-oz ±1.40 in-oz initially • **Rotational Life:** >1 million cycles of operation (cycle is rotation through all positions and return)

Fig. 1

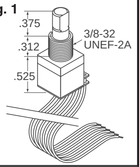

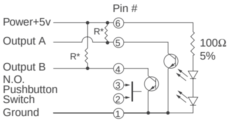

*External pull-up resistors required for operation. 2.2kΩ

Fig. 2

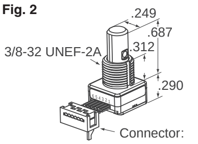

Amp Pt.# 215083-6 or equivalent

Fig.	Pos-ition	Description	Digi-Key Part No.	Price Each 1	25	100	Grayhill Part No.
1	32	2" Cable	GH3046-ND	33.86	27.09	20.32	62A11-01-020S
		With Switch, 2" Cable	GH3047-ND	37.01	29.61	22.21	62A11-02-020S
		5" Cable	GH3048-ND	34.56	27.65	20.74	62A11-01-050S
		With Switch, 5" Cable	GH3049-ND	37.73	30.19	22.64	62A11-02-050S
2	32	w/Switch, 5" Cable w/Conn.	GH7297-ND	36.99	29.60	22.20	62S11-M5-050C
		5" Cable w/Connector	GH7298-ND	33.88	27.11	20.33	62S11-M0-050C

Mechanical Rotary Encoders Series 26

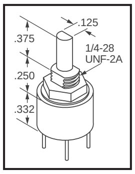

The series 26 rotary encoders are pc mounted mechanical encoders that come complete with a threaded shaft (mounting hardware included) and internal detents for user feedback • User selectable for either continuous rotation or present stops (two supplied) • Grey code output - continuous rotation - no stop pins • Fully sealed with panel and shaft seal for use in the harshest environments.

Specifications: • **Electrical Rating:** 25,000 cycles with logic compatible loads. Make and break 200mA • **Detent Balls:** Carbon steel, nickel plated • **Terminals:** Brass, gold plated nickel plate; Contacts: Copper alloy, gold plated over nickel plate

Code And Truth Table

Switch Position	Code Position	BCD Output* 1	2	4	8	Grey Output* 1	2	4	8
1	0								
2	1	●				●			
3	2		●			●	●		
4	3	●	●				●		
5	4			●			●	●	
6	5	●		●		●	●	●	
7	6		●	●		●		●	
8	7	●	●	●				●	
9	8				●			●	●
10	9	●			●	●		●	●
11	10		●		●	●	●	●	●
12	11	●	●		●		●	●	●
13	12			●	●		●		●
14	13	●		●	●	●	●		●
15	14		●	●	●	●			●
16	15	●	●	●	●				●

Description	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
8 Position, BCD - 5 Pin PC Mount	GH3075-ND	14.15	11.33	8.49	7.10	26ASD45-01-1-AJS
16 Position, BCD - 5 Pin PC Mount	GH3076-ND	14.15	11.33	8.49	7.10	26ASD22-01-1-AJS
16 Position, Grey Code - 5 Pin PC Mount	GH3077-ND	21.69	17.35	13.01	10.89	26GS22-01-1-16S-C

*Dot indicates terminal tied to common.

Industrial Optical Rotary Encoders Series 61K, 61R, 63R

These rugged encoders are designed for continuous operations with high resolution. Made with stainless steel shaft and bushing for exceedingly long life (10 million life cycles). No detents.

Features: • High resolution • Rugged construction • Cable or pinned version • 10 million life cycles • 300 RPM shaft rotation • 61K is a 4 pin output • 61R is a 5 pin output • 63R is a 5 pin output with 500 million life cycles

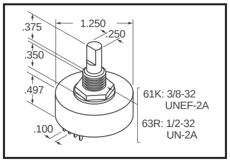

Specifications: • **Operating Voltage:** 5 ± .25VDC • **Supply Current:** 30mA maximum at 5VDC • **Logic Output Characteristics:** Output Type: Open collector with integrated Schmitt Trigger and 10KΩ pull-up resistor. Maximum Sink Current: 16mA at .40 Volts. • **Power Consumption:** 150mW maximum • **Optical Rise Time:** 500ns • **Optical Fall Time:** 16ns • **Mechanical Life:** 10 million revolutions • **Time Life:** Guaranteed for 10 years of continuous operation (calculated from emitter degradation data) • **Operating Temperature Range:** -40°C ~ 85°C

61K

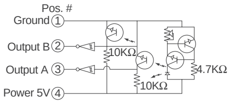

61R, 63R

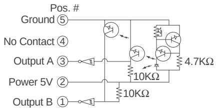

Description	Pulse Per Revolution	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
4 Pin PC Mount	64	GH3064-ND	45.51	36.41	31.86	28.22	61K64
4 Pin PC Mount	128	GH3065-ND	45.51	36.41	31.86	28.22	61K128
5" Cable	128	GH3066-ND	49.49	39.60	34.65	30.69	61K128-050
5 Pin PC Mount	64	GH3067-ND	45.51	36.41	31.86	28.22	61R64
5 Pin PC Mount	128	GH3068-ND	45.51	36.41	31.86	28.22	61R128
5 Pin PC Mount	128	GH3069-ND	50.53	40.43	35.38	31.33	63R128
5 Pin PC Mount	256	GH3070-ND	52.32	41.86	36.63	32.44	63R256

Mechanical Rotary Encoders

Series 25L

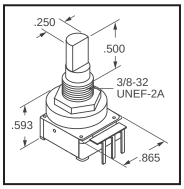

The 25L series of encoders are inexpensive single deck mechanical encoders designed for human interface terminals. Has detents.

Features: • Quality construction and contact materials • 100,000 life cycles

Specifications: • **Switching Loads:** 1.5mA @ 115VAC, resistive; 150mA @ 14VDC , resistive • **Life Expectancy:** 100,000 cycles of operation @ rated loads; one cycle of operation is a rotation through all of the active positions and a return to the starting position • **Operating Temperature:** -65°C ~ 85°C

Description	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
36 Position, 2 Bit - 3 Pin PC Mount	GH3071-ND	4.71	3.77	2.83	2.36	25LB10-Q
24 Position, 2 Bit - 3 Pin PC Mount	GH3072-ND	4.71	3.77	2.83	2.36	25LB15-Q
16 Position, 2 Bit - 3 Pin PC Mount	GH3073-ND	4.71	3.77	2.83	2.36	25LB22-Q
16 Position, Hex - 5 Pin PC Mount	GH3074-ND	4.71	3.77	2.83	2.36	25LB22-H
16 Position, Gray-5 Pin PC Mount	GH7299-ND	4.71	3.77	2.83	2.55	25LB22-G

Optical Encoders Series 62P

Grayhill's low cost, highly reliable Series 62P Optical Encoders are being designed into automotive controls, white goods, and audio.

Features: • Compact Size • PC Mount • No De-Bouncing • Up to 2 Million Cycles

Specifications: • **Operating Voltage:** • 5VDC ±.25 VDC • **Supply Current:** • 30mA @ 5VDC • **Logic Rise and Fall:** • Less than 30Ms • **Operating Speed:** • 100 RPM Maximum • **Operating Temperature:** -40°C ~ 85°C

Materials: • **Shaft:** Thermoplastic • **Detent Rotor:** Reinforced Thermoplastic • **Bushing:** Thermoplastic • **Terminals:** Brass, Tin Plated

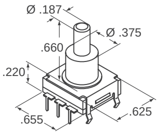

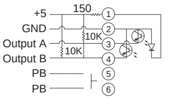

Note: 10K External pull-up resistors
required on Pin 3 and Pin 4
150 external resistor required on Pin 1

Pos-ition	Description	Digi-Key Part No.	Price Each 1	100	1000	Grayhill Part No.
16	High Torque	GH7291-ND	5.60	4.43	3.92	62P22-H0
	High Torque, 300 gF Pushbutton	GH7292-ND	5.75	4.55	4.03	62P22-H4
	High Torque, 450 gF Pushbutton	GH7293-ND	6.05	4.78	4.24	62P22-H6
16	Low Torque	GH7294-ND	5.15	4.07	3.61	62P22-L0
	Low Torque, 300 gF Pushbutton	GH7295-ND	6.05	4.55	4.03	62P22-L4
	Low Torque, 450 gF Pushbutton	GH7296-ND	6.05	4.78	4.24	62P22-L6

Rotary Switches

Series 19

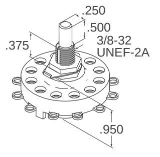

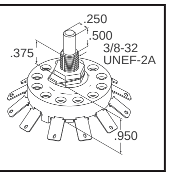

Grayhill's Series 19 Single Deck Rotary Switches are 2 inches in diameter and are rated for 15Amps @ 120VAC. UL Recognized. Rugged Construction

Contacts: Non-shorting • **Rotational Torque:** 30 to 75 oz-inch • Hardware included

Description	Digi-Key Part No.	Price Each 1	25	100	250	Grayhill Part No.
4 Position, Solder Terminal	GH7283-ND	24.99	19.99	15.00	13.10	19001-04UL
6 Position, Solder Terminal	GH7284-ND	27.42	21.94	16.46	14.38	19001-06UL
8 Position, Solder Terminal	GH7285-ND	29.86	23.89	17.92	15.66	19001-08UL
10 Position, Solder Terminal	GH7286-ND	32.29	25.84	19.38	16.92	19001-10UL
4 Position, .250 Quick Connect	GH7287-ND	24.99	19.99	15.00	13.10	19101-04UL
6 Position, .250 Quick Connect	GH7288-ND	27.42	21.94	16.46	14.38	19101-06UL
8 Position, .250 Quick Connect	GH7289-ND	29.86	23.89	17.92	15.66	19101-08UL
10 Position, .250 Quick Connect	GH7290-ND	32.27	25.82	24.21	23.24	19101-10UL

Navigation Switch Encoders

Features: • Select switch • Positive detent • Self clinching terminals **Applications:** • Audio / Video equipment • Navigation systems • Computer peripherals • Car radio

Fig. 1

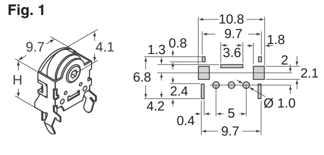

Fig. 2

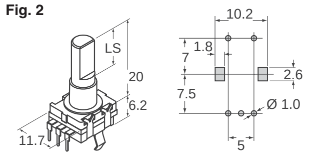

Fig. 3

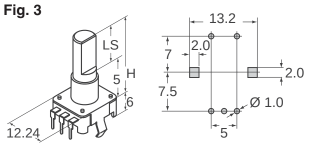

Fig. 4

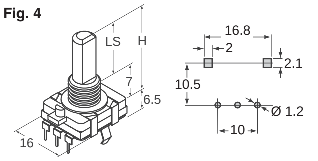

Fig.	Number of Pulses	Number of Detent	Select Function	Dimension H (mm)	Dimension LS (mm)	Digi-Key Part No.	Price Each 1	25	100	250	ITT Ind. Part No.
1	12	24	—	7	—	401-1383-ND	2.32	1.86	1.48	1.17	NSE10DH127
	12	24	—	9	—	401-1384-ND	2.44	1.96	1.55	1.22	NSE10DH129
	12	24	—	11	—	401-1385-ND	2.55	2.05	1.62	1.28	NSE10DH1211
2	15	30	No	—	13	401-1386-ND	10.84	8.67	6.87	5.42	NSE11DV57NCF215A
	20	20	No	—	13	401-1387-ND	11.38	9.11	7.21	5.70	NSE11DV57NCF220A
	15	30	Yes	—	12.5	401-1388-ND	11.61	9.30	7.36	5.81	NSE11DSV57NAF215A
	20	20	Yes	—	12.5	401-1389-ND	12.20	9.76	7.73	6.10	NSE11DSV57NAF220A
	15	30	Yes	—	12.5	401-1390-ND	11.61	9.30	7.36	5.81	NSE11DSV57NAF215F
	20	20	Yes	—	12.5	401-1391-ND	12.20	9.76	7.73	6.10	NSE11DSV57NAF220F
3	12	12	No	20	7	401-1392-ND	3.10	2.48	1.97	1.55	NSE12DV1220
	24	24	No	20	7	401-1393-ND	3.25	2.61	2.06	1.63	NSE12DV2420
	12	12	No	25	12	401-1394-ND	3.25	2.61	2.06	1.63	NSE12DV1225
	24	24	No	25	12	401-1395-ND	3.41	2.73	2.16	1.71	NSE12DV2425
	12	12	Yes	20	7	401-1396-ND	3.41	2.73	2.16	1.71	NSE12DSV1220
	24	24	Yes	20	7	401-1397-ND	3.58	2.87	2.27	1.79	NSE12DSV2420
	12	12	Yes	25	12	401-1398-ND	3.58	2.87	2.27	1.79	NSE12DSV1225
	24	24	Yes	25	12	401-1399-ND	3.76	3.01	2.38	1.88	NSE12DSV2425
4	24	24	No	26.5	13	401-1400-ND	3.25	2.61	2.06	1.63	NSE16DV2426
	24	24	No	31.5	18	401-1401-ND	3.41	2.73	2.16	1.71	NSE16DV2431

Optical Rotary Encoders

Series: 600, 601H, 601V

Electrical Specifications: • Description: The Series 600 and 601 controls are manually operated, rotary, optical encoders that output two square waves in quadrature at a rate of 128 pulses per channel per revolution as a standard with other resolutions down to 60 pulses available. The outputs are TTL compatible. The variation by series is the terminal configuration, with the Model 600 having (4) cable leads, and the Model 601 having (4) pin leads and internal resistors. • Input Power: 4 volts DC ±5% @ 30mA maximum plus external requirements • Output Rate: 128 pulses/revolution per channel-standard • Channels: Two separate output channels in quadrature. 90° ±45° • Output Voltage: High level voltage: 2.4 volts minimum with 10KΩ load to ground • Low level voltage: .4 volt maximum **Environmental Characteristics:** • Operating Temperature: -20°C ~ 65°C

Mechanical Characteristics: • Shaft Rotation: Continuous in either direction, 300RPM maximum • Terminals: P/C Type: .025" (.64mm) by 0.12" (3.05mm) thick brass, gold plated to facilitate soldering • Cable Type: • Four lead ribbon cable, color-coded, with .050" (1.27mm) spacing • 28AWG stranded copper wire, .039" (.99mm) diameter • Strength: Terminals withstand 2 pounds push and pull and a 90° bend.

Description	Digi-Key Part No.	Price Each	Clarostat Part No.
Cable Version	600CS-ND	53.41	600EN-128-CBL
Horizontal Version	601HCS-ND	52.68	600EN-128-B66
Vertical PC Version	601VCS-ND	52.20	600EN-128-C24

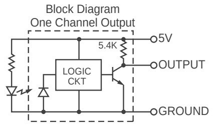

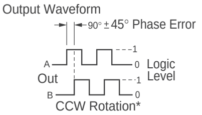

CABLE CODE		
Term#	Color	Function
1	Red	5VDC ±5% @ 30 MA max.
2	Yellow	A Out
3	Green	Ground
4	Orange	B Out

Model 600 - Cable Style

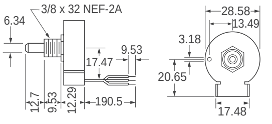

Model 601 - PC Terminal (Horizontal)

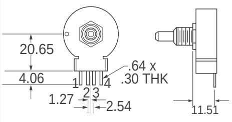

Model 601 - PC Terminal (Vertical)

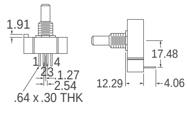

Mechanical Rotary Encoders

Series 288 and 290

	288 Series	290 Series
Body Size	16mm	9mm
Shaft Material	Metal	Metal
Operating Temperature	-25°C ~ 100°C	-30°C ~ 70°C
Switch Life	15,000 Actuations	100,000 Actuations
Resolution	16 CPR	20 CPR

Fig.	Description	Shaft Trim	Dim. L (mm)	Digi-Key Part No.	Price Each 1	10	50	100	CTS Part No.
1A	2 Bit Non-Detent	Round	—	CT3001-ND	2.58	2.40	2.00	1.80	288T232R161A1
	2 Bit Detent		—	CT3002-ND	2.58	2.40	2.00	1.80	288T232R161A2
1B	2 Bit Detent	Round	—	CT2999-ND	5.42	5.04	4.19	3.78	288V232R161B2
1C	2 Bit Detent	Round	—	CT3000-ND	5.42	5.04	4.19	3.78	288X232R161B2
2	4 Bit Non-Detent	Round	—	CT3003-ND	3.50	3.26	2.71	2.45	288T232R162A1
3	2 Bit Non-Detent	Round	20	CT3004-ND	2.50	2.33	1.93	1.75	290UAB0R201A1
	2 Bit Detent			CT3005-ND	2.53	2.36	1.96	1.77	290UAB0R201A2
	2 Bit Non-Det., w/Switch			CT3006-ND	2.93	2.73	2.27	2.05	290UAB0R201B1
	2 Bit Detent, w/Switch			CT3007-ND	2.96	2.76	2.29	2.07	290UAB0R201B2
	2 Bit Non-Detent	Flatted	15	CT3008-ND	2.37	2.21	1.84	1.66	290UAA5F201A1
	2 Bit Detent			CT3009-ND	2.40	2.24	1.86	1.68	290UAA5F201A2
	2 Bit Non-Det., w/Switch			CT3010-ND	2.81	2.61	2.17	1.96	290UAA5F201B1
	2 Bit Detent, w/Switch			CT3011-ND	2.83	2.64	2.19	1.98	290UAA5F201B2

Fig. 1 - Series 288 Binary Switching Codes

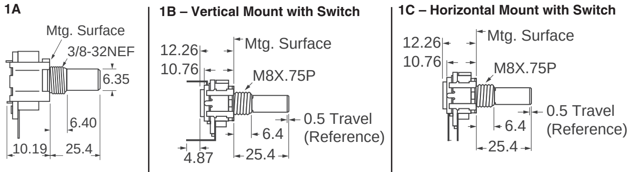

Fig. 2 - Gray Switching Code

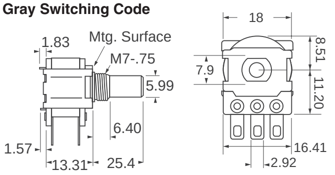

Fig. 3 - Series 290 Commercial Miniature Encoder

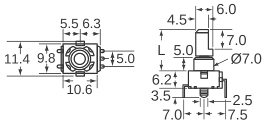

Modular Encoder AMT VersaPak

The code generation technology represents a breakthrough in cost vs resolution with other benefits such as very low current consumption, broad operating temperature range, low-profile, light-weight mechancial design, and high resolution for the package size. The benefits the AMT encoder offers over our competition is significant. AMT includes 16 standard base and wide mounting adaptor, and all eleven sleeve sizes. **Features:** • Current Consumption: 10mA max • Operating Temperature Range: -40C-+100C • Resolution: 16 resolutions programmable with dip switch 299 encoders in 1 encoder • Index Pulse: Yes • Header Connection: Straight or Right Angle • Made in USA • 5 Year unconditional warranty replacement • Drop-in replacement for Agilent HEDS5500 or US Digital E5S or E2 • Output Type: TTL

Fig.	Description	Digi-Key Part No.	Price Each 1	50	10	100	500	CUI Inc. Part No.
1	Modular Encoder Horizontal Version	102-1308-ND	29.95	26.00	28.50	23.00	21.00	AMT103-V
	Interface Cable Horizontal Version	102-1310-ND	12.60	—	10.92	8.40	6.98	CUI-3934-6FT
2	Modular Encoder Vertical Version	102-1307-ND	29.95	26.00	28.50	23.00	21.00	AMT102-V
	Interface Cable Vertical Version	102-1309-ND	14.40	—	12.48	9.60	7.97	CUI-3131-6FT

Sleeve Diameter Sizes for Back Shaft
2000 = 2mm
2300 = 2.3mm
3000 = 3mm
3175 = 3.175mm
4000 = 4mm
4760 = 4.76mm
5000 = 5mm
6000 = 6mm
6350 = 6.35mm
7000 = 7mm
8000 = 8mm

Fig. 1 – Horizontal

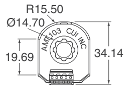

Fig. 2 – Vertical

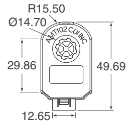

Panasonic Mechanical Rotary Encoders

Fig. 1

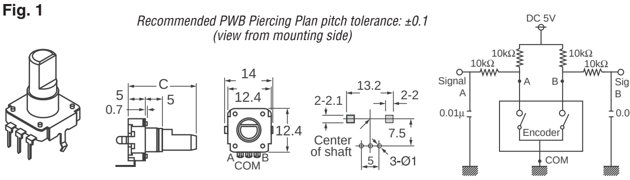

Fig. 2

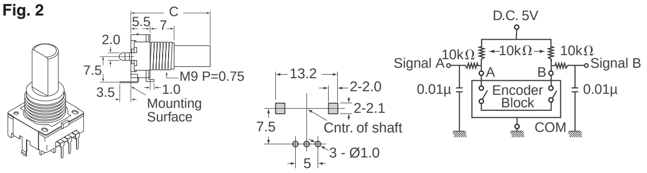

Fig. 3

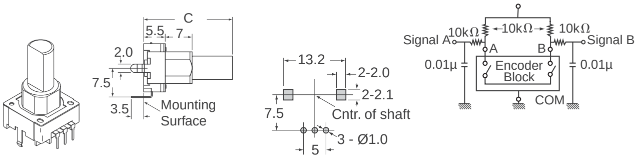

Fig. 4

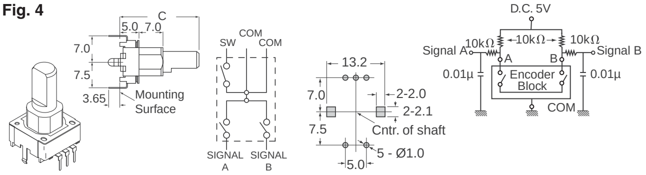

Specifications:

Mechanical: • Rotation Angle: 360° (endless) • Shaft Inclination: 0.7 x H/30 mm p-p max. • Rotation Torque: Standard type: 3mN-m to 20mN-m; EVE-K type: 10mN-m to 50mN-m

Electrical: • Output Signals: Phase A and B • Resolution: 12, 20, 24 pulses/360° • Rating: DC 5V/10V 1mA • Contact Resistance: 1Ω maximum • Insulation Resistance: DC 50V 10MΩ minimum • Dielectric Withstanding Voltage: 1 minute at 50VAC • Bouncing: 3/5 ms maximum

Physical, Environment Life: • Operating Life: Standard life: 30,000 cycles, minimum

Operating Temperature: -10°C ~ 60°C

Storage Temperature: -40°C ~ 85°C

Fig.	Description	Dim. C	Detent/ Pulse	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	12(mm)	17.5	24/24	P10859-ND	1.52	1.35	.97	EVE-GA1F1724B
		20	24/24	P10860-ND	1.52	1.35	.97	EVE-GA1F2024B
		20	12/12	P12331-ND	.69	.58	.49	EVE-GA1F2012B
2	12(mm)	20	12/12	P12332-ND	.86	.72	.60	EVE-GC1F2012B
		20	–/24	P12334-ND	.86	.72	.60	EVE-KC2F2024B
3	12(mm)	20	12/12	P12333-ND	.72	.61	.51	EVE-GE1F2012B
		20	–/24	P12335-ND	.72	.61	.51	EVE-KE2F2024B
4	12(mm)	20	20/20	P12336-ND	1.77	1.48	1.24	EVE-JBBF2020B

Center Space Encoders

EVQ Series:
Encoder with a center space, which meets the requirements of multiple operation controllers.

Recommended Applications: • Car audio products (adjustment of volume, tone, tuners, etc.) • AV equipment (control of edit functions of VCRs, CD players, MD players, etc.) • Remote control of car navigation systems

Features: • Multiple unit construction can be achieved by mounting switches, LEDs, etc. in the through hole at the center (center space) on the printed wiring board. • High reliability • Ready for transparent shafts (to enhance the light diffusion)

Specifications:

Mechanical: • Rotation Angle: 360° (endless) • Detents: EVQ-1WF: 20 points; EVQ-WFP: 30 points

Electrical: • Output Signal: Phase A and B • Resolution: EVW-1WF: 10 pulses/360°; EVQ-WFP: 15 pulses/360° • Rating: 1mA, 10VDC • Contact Resistance: 1Ω maximum • Bouncing: 5 ms maximum • Insulation Resistance: 50MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute

Endurance: • Rotation Life: EVW-1WF: 50,000 cycles minimum; EVQ-WFP: 30,000 cycles minimum

Operating Temperature: -40°C ~ 85°C

Fig. 1

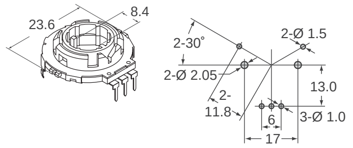

Fig. 2

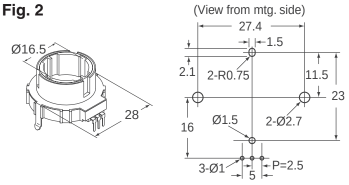

Fig.	Description	Detent/ Pulse	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	22(mm)	20/10	P12337-ND	2.18	1.82	1.53	EVQ-1WF00210B
2	27(mm)	30/15	P12419-ND	5.61	4.68	3.93	EVQ-WFP00415B

11mm Square Encoders with Push-lock Feature

Recommended Applications:
- Volume control or mode switch selector for car audio • Signal input for selector monitors and AV equipment

Features:
- New type encoder with a push-lock feature • EVQ-WEB includes an SPST NC switch
- Push-lock Travel: EVQ-WEB: 9mm maximum; EVQ-WEH: 8.4mm maximum

Specifications:

Mechanical: • Rotation Angle: 360° (endless) • Shaft Pull/Push Strength: 100N minimum • OP Force Switch: 7n maximum • Rotation Torque: EVQ-WEB: 3 mN·m to 20 mN·m; EVQ-WEH: 3 mN·m to 17 mN·m • Detents: 30 points

Electrical: • Resolution: 15 pulses/360° • Output Signal: A and B (2 Phases) • Rating: EVQ-WEB: 1mA, 10Vdc (encoder); 20mA, 16VDC (switch); EVQ-WEH: 1mA, 5Vdc (encoder); 10mA, 5Vdc (switch) • Contact Resistance: 1mΩ maximum • Insulation Resistance: EVQ-WEB: 50MΩ minimum (at 250VDC); EVQ-WEH: 100MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute

Endurance: • Rotation Life (encoder): 15,000 cycles • Operating Life (Push-lock): 10,000 cycles

Operating Temperature:
EVQ-WEB: -20°C ~ 70°C; EVQ-WEH: -30°C ~ 85°C

Fig. 1

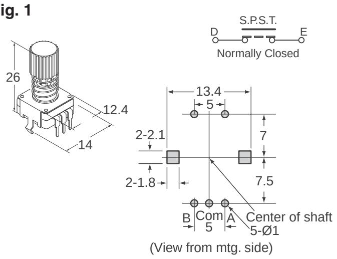

Fig. 2

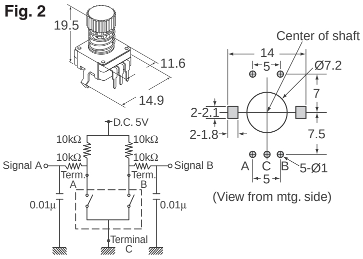

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	Rotary Encoder with SPST Switch	P12424-ND	11.96	9.97	8.37	EVQ- WEB00115B
2	Rotary Encoder, Vertical	P12425-ND	7.17	5.98	5.02	EVQ- WEH00115B

Edge Drive Jog Encoders

EVQWK Series:

Recommended Applications: • Menu selection and input for portable electronic equipment

Features:
- Excellent operation feeling • Push-on switch with a clear-click operation • Compact, thin profile • Reflow soldering

SPECIFICATIONS:

Mechanical:
- Encoder: • Detents: 15 points • Rotation Torque 1mN·m ~ 10mN·m • Push-on Switch: Travel: 0.3mm • Operating Force: 4.5N±1.5N

Electrical:
- Encoder: • Pulses: 15 • Output Signals: 2-phase (A and B) • Contact Resistance: 1Ω maximum • Push-on Switch: Contact Resistance: 100mΩ

Endurance:
- Encoder/Push-on Switch: Operating Life: 100,000 cycles minute

Fig. 1

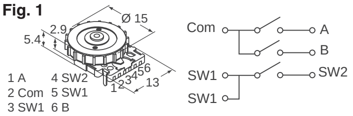

Fig. 2

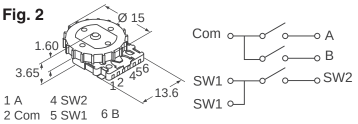

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 600	Panasonic Part No.
1	5.4mm SMD	P13382S-ND*	6.66	5.56	4.67	—	—	EVQ-WK4001
2	3.65mm SMD	P13381SCT-ND	9.35	7.01	6.08	P13381STR-ND	2102.40	EVQ-WKA001

* Bulk

Panasonic 11mm and 16mm Square Encoders

Fig. 1

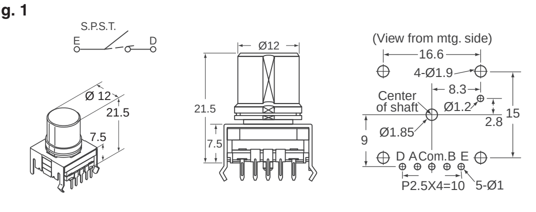

Fig. 2

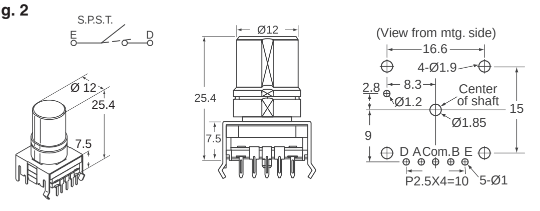

Fig. 3

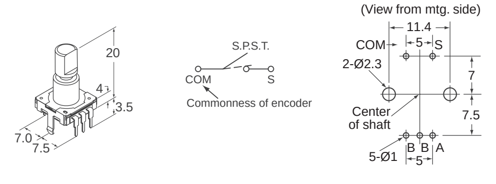

EVE-P/EVE-Q:

Recommended Applications:

- Centralized control of automotive audio equipment, navigation systems and air conditioners.

Features:

- Good operation feel • Long life achieved by the high click torque • Runout protection: Runout: 0.1mm max.

Specifications:

Mechanical: • Rotation Angle: 360° (endless) • Rotation Torque: 40 mN·m maximum • Detents: EVE-P: 16; EVE-Q: 32
Electrical: • Output Signals: Phase A and B • Resolution: EVE-P 8 pulses/360°; EVE-Q 16 pulses/360° • Rating: 1mA, 10VDC (at each bit) • Contact Resistance: 1Ω maximum • Bouncing: 5 ms maximum • Insulation Resistance: 50MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute
Switch Part: • Type: SPST Push-on • Rating: 20mA, 16VDC • Contact Resistance: 100mΩ maximum • Operating Force: 6N • Travel: 0.5mm
Endurance: • Rotation Life: 1,000,000 cycles minimum • Operating Life: 1,000,000 times minimum

Operating Temperature: -40°C ~ 85°C (45-85% RH)

EVE-V:

Recommended Applications:

- Car audio, navigation systems and air conditioners.

Features:

- Low Profile: 4mm • Wave soldering type • Integrated push-ON switch

Specifications:

Mechanical: • Rotation Angle: 360° (endless) • Shaft Pull/Push Strength: 100 N·m minimum • Rotation Torque: 3 mN·m to 20 mN·m • Detents: 32
Electrical: • Output Signals: Phase A and B • Resolution: 16 pulses/360° • Rating: 1mA, 10VDC (at each bit) • Contact Resistance: 1Ω maximum • Insulation Resistance: 50MΩ minimum (at 250VDC) • Dielectric Withstanding Voltage: 300VAC for 1 minute • Bouncing: 5 ms maximum
Switch Part: • Type: SPST Push-on • Rating: 20mA, 16VDC • Contact Resistance: 100mΩ maximum • Operating Force: 1.5mm travel type: 4N • Travel: 1.5mm
Endurance: • Rotation Life (encoder): 30,000 cycles minimum • Operating Life (switch): 50,000 times minimum

Operating Temperature: -40°C ~ 85°C

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	8 PPR, SPST, 16 Detents, 21.5mm Height	P12420-ND	10.55	8.80	7.39	EVE-PDBRG508B
	16 PPR, SPST, 32 Detents, 21.5mm Height	P12422-ND	10.32	8.60	7.23	EVE-QDBRG516B
2	8 PPR, SPST, 16 Detents, 25.4mm Height	P12421-ND	10.55	8.80	7.39	EVE-PDBRL408B
	16 PPR, SPST, 32 Detents, 25.4mm Height	P12423-ND	10.96	9.14	7.68	EVE-QDBRL416B
3	16 PPR, SPST, 32 Detents, 20mm Height	P12418-ND	3.21	2.68	2.25	EVE-VCGJL016B

BOURNS Digital Contacting Encoders

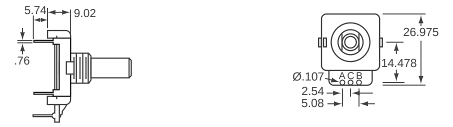

Full Cycle Per Detent
(Normally Open in Detent Shown)

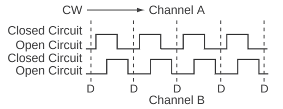

1/4 Cycle Per Detent

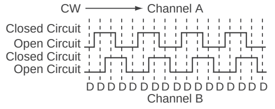

Electrical Characteristics: • Output: 2-bit gray code, Channel A leads Channel B by 90° electrically turning clockwise (CW) • Closed Circuit Resistance: 5 ohms maximum • Open Circuit Resistance: 100K ohms minimum • Contact Rating: 10Milliamp @ 10VDC or 0.1 watt maximum • Insulation Resistance (500 VDC): 1,000 megohms minimum • Dielectric Withstanding Voltage: MIL-STD-202 Method 301 (Sea Level; 1,000VAC minimum) • Electrical Travel: Continuous • Contact Bounce (15 RPM): 5 milliseconds maximum • RPM (Operating): 120 maximum **Environmental Characteristics:** • Operating Temperature Range: 1°C ~ 125°C **Mechanical Characteristics:** • Mechanical Angle: Continuous • Torque (Detented): 0.75 to 2.25 oz-in. • **Mounting hardware sold separately**

Anti-Rotation Lug Position	Cycles Per Revolution	Digi-Key Part No.	Price Each 1	25	50
None	24	ECW1DB24BC0024-ND	3.46	2.70	2.20
9:00	24	ECW1JB24BC0024-ND	3.46	2.70	2.20

Description	Digi-Key Part No.	Pricing 1	10	100	1,000
Lockwasher for ECW Encoder	H-37-2-ND	.16	1.24	7.47	59.85
Mounting Nut for ECW Encoder	H-38-11-ND	.53	4.13	24.90	199.50

Rotary Optical Encoders

Fig. 1

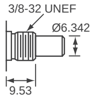

Fig. 2

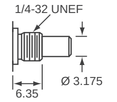

Fig. 3

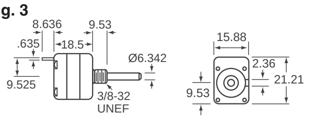

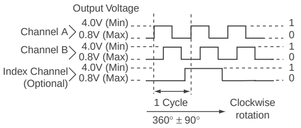

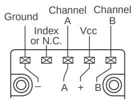

Electrical Characteristics: • Output: 2-bit gray code, Channel A leads Channel B by 90° electrically turning clockwise • Supply Voltage: 5.0VDC ±0.25VDC • Supply Current: 26 mA maximum • Output Voltage: 0.8V maximum for low output & 4V minimum for high output • Output Current (Low Output): 25 mA minimum • Insulation Resistance (500 VDC): 1,000MΩ • Rise/Fall Time: 200ns (typical) • Shaft RPM (Ball Bearing): 3,000 rpm maximum • Power Consumption: 136 mW maximum • Pulse Width (Electrical Degrees, Each Channel): 180° ±45° Typical • Pulse Width (Index Channel): 360° ±90° • Phase (Electrical Degrees, Channel A to Channel B): 90° ±45° Typical • Index Channel Centered on 1-1 State Combination of A and B Channels: 0° ±45° **Environmental Characteristics:** • Operating Temperature Range (Standard): -40°C ~ 85°C **Mechanical Characteristics:** • Mechanical Rotation: Continuous • Torque (Starting and Running): A & C Bushings (Spring Loaded for Optimum Feel); 1.5 oz-in. maximum and W,S & T Bushings (Ball Bearing Shaft Support): 0.1 oz-in maximum • **Mounting hardware included**

Fig.	Cycles Per Revolution	Digi-Key Part No.	Price Each 1	25	50
1	64	ENA1JB28L00064-ND	51.37	40.00	32.67
	100	ENA1JB28L00100-ND	51.37	40.00	32.67
	128	ENA1JB28L00128-ND	51.37	40.00	32.67
2	128	ENC1JD28L00128-ND	51.37	40.00	32.67
3	256	ENS1JB28L00256-ND	82.74	64.43	52.62

9mm Square/Sealed Encoder

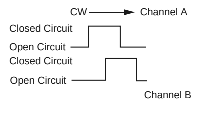

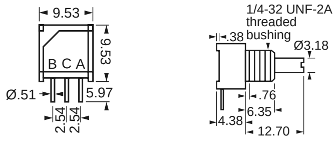

Electrical Characteristics: • Output: 2-bit gray code, Channel A leads Channel B by 90° electrically turning clockwise (CW): 6 pulses per resolution • Closed Circuit Resistance: 2Ω maximum • Open Circuit Resistance: 100KΩ minimum • Contact Rating: 10Milliamp @ 10VDC or 0.1 Watt maximum • Insulation Resistance (500VDC): 1,000MΩ minimum • Dielectric Withstanding Voltage: (Sea Level) 900VAC minimum; (Electrical Travel) Continuous • Contact Bounce (15 RPM): 5 milliseconds max. • RPM (Operating): 120 maximum **Environmental Characteristics:** • Temperature Range: -55°C ~ 125°C • Rotational Life: 100,000 cycles **Mechanical Characteristics:** • Mechanical Angle: Continuous • Torque: 5 oz-in. maximum • **Mounting hardware included**

Description	Digi-Key Part No.	Price Each 1	10	50	100
9mm Square Right Angle Encoder	3315C-001-006-ND	2.77	2.45	2.06	1.76

SMT Reed Relays

SPECIFICATIONS: • **Life Expectancy:** Varies with each series from a minimum of 100 x 10^6 operations to 1000 x 10^6 operations • **Insulation Resistance:** $10^{12}\Omega$ • **Storage Temperature:** -35°C ~ 100°C • **Operating Temperature:** -20°C ~ 85°C • **Vibration:** 20 G's to 2000 Hz; Shock: 50 G's

Dimensions: Inches (mm)

Fig. 1

Ideally suited to the needs of Automated Test Equipment, Instrumentation and Telecommunications requirements. High reliability, hermetically sealed contacts for long life. Low profile – 0.190" height. Meets high board density requirements. 50Ω Coaxial Shield for RF and Fast Rise Time Pulse switching.

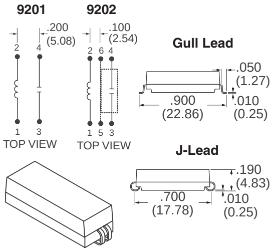

Fig. 2

Ideally suited to the needs of Automated Test Equipment, Instrumentation and Telecommunication requirements. Small surface mount package (0.225" x 0.550"). Low capacitance (Contact to Shield – 1.1 pF typical). Coaxial shield for 50V impedance. Excellent for RF and Fast Rise Time Pulse switching (up to 2.0 GHz).

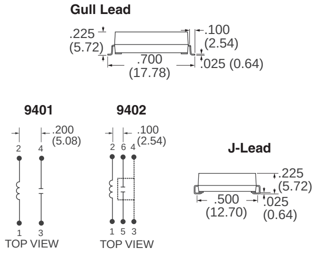

Fig. 3

Ideally suited to the needs of Automated Test Equipment, Instrumentation and Telecommunications requirements, Coto's 9800 Series is an ultra-miniature Surface Mount Reed Relay that combines small size with exceptional RF performance. 9814 extends life at ATE loads 3X or more utilizing Coto's proprietary switch technology. The external Magnetic Shield reduces interaction between parts in high density boards. 9852 adds a form C capability. Small size plus added features allow for high density packing, and make these relays ideal for designs such as high speed, high pin count VLSI testers where speed, size and performance are all needed.

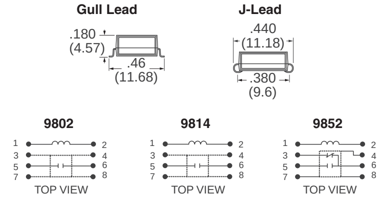

Fig. 4

Ideally suited to the needs of Automated Test Equipment, Instrumentation and Telecommunication requirements. High reliability, hermetically sealed contacts for long life. Low profile – 0.193" maximum height. Minimum Footprint .140" Square 50Ω Co-axial Shield for RF and Fast Rise Time Pulse switching. UL Recognized.

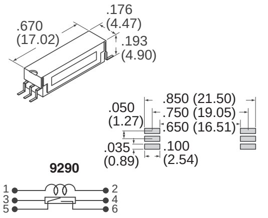

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each 1	10	50	100	Coto Part No.
1	SPST	5	20	0.5	1.5	SMT- J-Lead	306-1068-ND	6.57	5.56	4.65	3.79	9201-05-20
	SPST	5	20	0.5	1.5	50Ω Coaxial Shield, Gull Lead	306-1069-ND	6.79	5.75	4.81	3.92	9202-05-00
	SPST	5	20	0.5	1.5	50Ω Coaxial Shield, J-Lead	306-1070-ND	6.79	5.75	4.81	3.92	9202-05-20
2	SPST	5	20	0.5	1	SMT - Gull Lead	306-1071-ND	7.51	6.36	5.32	4.34	9401-05-00
	SPST	12	14.5	0.5	1	SMT - Gull Lead	306-1072-ND	7.51	6.36	5.32	4.34	9401-12-00
	SPST	5	25	0.5	1	50Ω Coaxial Shield, Gull Lead	306-1119-ND	8.09	6.85	5.73	4.67	9402-05-00
	SPST	5	20	0.5	1	50Ω Coaxial Shield, J-Lead	306-1073-ND	8.09	6.85	5.73	4.67	9402-05-20
	SPST	12	14.5	0.5	1	50Ω Coaxial Shield, Gull Lead	306-1074-ND	8.09	6.85	5.73	4.67	9402-12-00
3	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, Gull Lead	306-1075-ND	8.42	7.29	6.24	5.35	9802-05-00
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, J-Lead	306-1076-ND	8.42	7.29	6.24	5.35	9802-05-20
	SPST	3.3	47.1	0.25	0.5	50Ω Coaxial Shield, Gull Lead	306-1156-5-ND	9.49	8.22	7.03	6.03	9814-03-00
	SPST	3.3	47.1	0.25	0.5	50Ω Coaxial Shield, SMD Axial	306-1157-5-ND	9.49	8.22	7.03	6.03	9814-03-10
	SPST	3.3	47.1	0.25	0.5	50Ω Coaxial Shield, J-Lead	306-1158-5-ND	9.49	8.22	7.03	6.03	9814-03-20
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, Gull Lead	306-1159-5-ND	9.49	8.22	7.03	6.03	9814-05-00
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, SMD Axial	306-1160-5-ND	9.49	8.22	7.03	6.03	9814-05-10
	SPST	5	33.3	0.25	0.5	50Ω Coaxial Shield, J-Lead	306-1161-5-ND	9.49	8.22	7.03	6.03	9814-05-20
	SPDT	3.3	47.1	0.1	0.2	50Ω Coaxial Shield, Gullwing	306-1162-5-ND	20.43	18.01	15.82	14.36	9852-03-00
	SPDT	3.3	47.1	0.1	0.2	50Ω Coaxial Shield, SMD Axial	306-1163-5-ND	20.43	18.01	15.82	14.36	9852-03-10
	SPDT	3.3	47.1	0.1	0.2	50Ω Coaxial Shield, J-Lead	306-1164-5-ND	20.43	18.01	15.82	14.36	9852-03-20
	SPDT	5	45.4	0.1	0.2	50Ω Coaxial Shield, Gullwing	306-1165-5-ND	20.43	18.01	15.82	14.36	9852-05-00
	SPDT	5	45.4	0.1	0.2	50Ω Coaxial Shield, SMD Axial	306-1166-5-ND	20.43	18.01	15.82	14.36	9852-05-10
	SPDT	5	45.4	0.1	0.2	50Ω Coaxial Shield, J-Lead	306-1167-5-ND	20.43	18.01	15.82	14.36	9852-05-20
4	SPST	5	31	0.5	1.5	50Ω EMI Shield, Low Profile	306-1141-ND	6.34	5.37	4.49	3.66	9290-05-00
	SPST	12	20	0.5	1.5	50Ω EMI Shield, Low Profile	306-1142-ND	6.34	5.37	4.49	3.66	9290-12-00

MEDER electronic

Magnetic Reed Sensors

Meder Magnetic Sensors are magnetically operated proximity switches for either surface mounting, PCB or panel mounting. Use for telephone hook switch detection, door and window sensing, limit switches for garage doors, hoists and conveyers. Switches are completely sealed for indoor/outdoor operation, available in various magnetic sensitivities, perfect for auto-insert equipment and automated processes. All sensors will actuate when a magnetic field is introduced to them and will remain actuated until the magnetic field is removed. **Operating Temp:** -20°C ~ 85°C, -20°C ~ 130°C for Fig. 3.

Fig.	Circuit	Dimensions (mm) A	B	Switching Voltage	Switching Current	Termination or Wiring	Digi-Key Part No.	Cut Tape Price Each 1	10	50	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Meder Part No.
1	SPST-NO	17.00	5.00	200	0.5	100 mm PVC Leads	374-1023-ND	8.45	7.54	6.11	—	—	—	MK18-B-100W
	SPST-NO	17.00	5.00	200	0.5	100 mm PVC Leads	374-1024-ND	8.45	7.54	6.11	—	—	—	MK18-C-100W
	SPST-NO	25.50	5.75	180	0.5	500 mm PVC Leads	374-1027-ND	6.37	5.69	4.61	—	—	—	MK3-1A71B-500W
	SPST-NO	25.50	5.75	180	0.5	500 mm PVC Leads	374-1028-ND	6.37	5.69	4.61	—	—	—	MK3-1A71C-500W
	SPST-NC	25.50	5.75	175	0.25	500 mm PVC Leads	374-1029-ND	10.01	8.94	7.24	—	—	—	MK3-1B90C-500W
	SPST-NO-NC	25.50	5.75	175	0.25	500 mm PVC Leads	374-1030-ND	10.60	9.46	7.67	—	—	—	MK3-1C90C-500W
2	SPST-NO	14.30	2.80	200	0.5	PCB Pins	374-1033-ND	2.15	1.92	1.56	—	—	—	MK6-5-C
	SPST-NO	22.32	3.30	180	0.5	PCB Pins	374-1037-ND	1.82	1.63	1.32	—	—	—	MK6-8-B
3	SPST-NO	16.00	2.50	200	0.5	SMD	374-1013-1-ND	1.76	1.57	1.27	374-1013-2-ND	2,500	702.00/M	MK15-B-2
	SPST-NO	16.00	2.50	200	0.5	SMD	374-1015-1-ND	1.20	1.08	.87	374-1015-2-ND	2,500	702.00/M	MK15-C-2
	SPST-NO	11.50	2.30	200	0.5	SMD	374-1017-1-ND	1.95	1.74	1.41	374-1017-2-ND	2,500	780.00/M	MK16-B-2
	SPST-NO	11.50	2.30	200	0.5	SMD	374-1019-1-ND	1.95	1.74	1.41	374-1019-2-ND	2,500	780.00/M	MK16-C-2
	SPST-NO	8.50	2.10	170	0.5	SMD	374-1021-1-ND	2.67	2.38	1.93	374-1021-2-ND	2,000	1066.00/M	MK17-B-2
	SPST-NO	11.60	2.70	200	1.0	SMD	374-1044-1-ND	1.11	.94	.79	374-1044-2-ND	2,500	442.00/M	MK22-B-4
	SPST-NO	11.60	2.70	200	1.0	SMD	374-1043-1-ND	1.11	.94	.79	374-1043-2-ND	2,500	442.00/M	MK22-B-2
4	SPST-NO	24.90	—	180	0.5	500 mm PVC Leads	374-1006-ND	12.68	11.31	9.17	—	—	—	MK11-1A71B-500W
	SPST-NO	24.90	—	180	0.5	500 mm PVC Leads	374-1007-ND	12.68	11.31	9.17	—	—	—	MK11-1A71C-500W
5	SPST	8.6	4.4	170	0.5	SMD	374-1039-1-ND	7.90	6.69	5.59	374-1039-2-ND	1,000	3159.00	CRR05-1A
	SPST	8.6	4.4	170	0.5	SMD	374-1040-1-ND	10.76	9.11	7.62	374-1040-2-ND	500	2317.00	CRR05-1AS
	SPST-NO	8.6	4.4	170	0.5	SMD	374-1041-1-ND	8.40	7.27	6.22	374-1041-2-ND	1,000	4199.00	CRF05-1A
	SPST-NO	8.6	4.4	170	0.5	SMD	374-1042-1-ND	10.71	9.27	7.94	374-1042-2-ND	1,000	5480.00	CRF05-1AS
6	SPST-NO	2.8	2.05	3.0	100	SMD	374-1045-1-ND	14.49	12.77	11.22	374-1045-2-ND	500	4588.50	MMS-B-2
7	SPST-NO	15.2	6.8	200	0.5	PCB Pins	374-1046-5-ND	4.39	3.72	3.11	—	—	—	MS05-1A87-75LHR
	SPST-NO	15.2	6.8	200	0.5	PCB Pins	374-1047-5-ND	4.71	3.99	3.34	—	—	—	MS05-1A87-75DHR
	SPST-NO	15.2	6.8	200	0.5	PCB Pins	374-1049-5-ND	4.71	3.99	3.34	—	—	—	MS12-1A87-75L
	SPST-NO	15.2	6.8	200	0.5	PCB Pins	374-1050-5-ND	5.04	4.27	3.57	—	—	—	MS12-1A87-75D
	SPST-NO	15.2	6.8	1000	2.0	PCB Pins	374-1048-5-ND	8.45	7.32	6.26	—	—	—	MS05-1A31-75L

Fig. 1

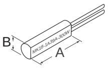

Fig. 2

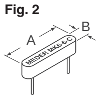

Fig. 3

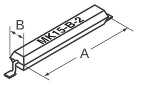

Fig. 4

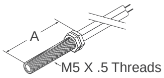

Fig. 5

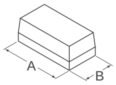

Fig. 6

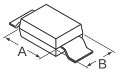

Fig. 7

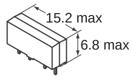

Reed Relays

SPECIFICATIONS: • Life Expectancy: Varies with each series from a minimum of 100 x 10^6 operations to 1000 x 10^6 operations **• Insulation Resistance:** $10^{12}\Omega$ **• Storage Temperature:** -35°C ~ 100°C **• Operating Temperature:** -20°C ~ 85°C **• Vibration:** 20 G's to 2000 Hz; Shock: 50 G's

RoHS COMPLIANT

Dimensions: inches (mm)

Fig. 1

The 2200 Series is Ideally suited to the needs of Automated Test Equipment and RF requirements. High speed switching compared to electro-mechanical relays. Hermetically sealed contacts for long life. Epoxy coated steel shell provides magnetic shielding. Optional Electrostatic Shield for reducing capacitive coupling

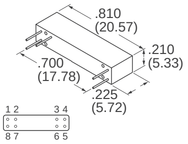

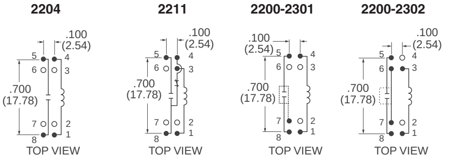

Fig. 2

The Coto 2300 Series was designed to offer the densest packaging available in a multiple reed relay. The size and footprint of the 2300 series compliment the 2200 and 2900 series relays. The 1 Form C model is constructed with individual switch capsules for the normally open and magnetically biased normally closed contacts which are more reliable than the spring actuated 1 Form C reed switches.

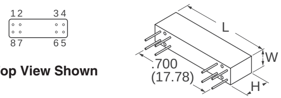

Top View Shown

Series	Dimensions - Inches (mm) L	W	H
2332/2333 2341/2342	.810 (20.57)	.210 (5.33)	.370 (9.40)
2904/2911	.820 (20.83)	.250 (6.35)	.280 (7.11)

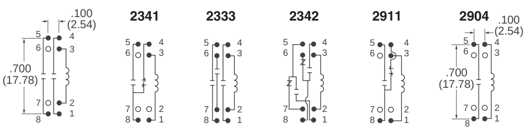

Fig. 3

The 5500 Series High Voltage Reed Relays are ideally suited to the needs of Instrumentation Industrial Process Controls and General Purpose requirements. High Dielectric Strength - 10,000 Volts isolation across contacts. Hermetically sealed Tungsten contacts for long life. Low contact resistance - 0.030 Ω typical. Magnetic Shield standard.

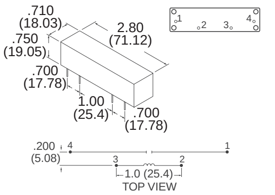

Fig. 4

The 7000 Series is ideally suited to the needs of Instrumentation, Data Acquisition, Process Control, Telecommunications and General Purpose requirements. These models are specifically designed for high quality and reliability with versatile switching capabilities and contact forms. Wide range of switching capabilities. Potted in metal shell - Magnetic Shield. PCB mounting versatility - 1.0" x 0.100" grid.

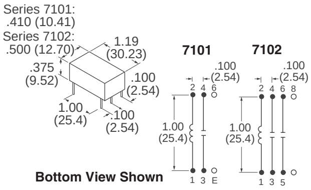

Fig. 5

The 8000 Series Dip Relay is ideal for the high reliability of ATE, Instrumentation and Data Acquisition applications. Proven to 500 million operations. The Coto 8L Spartan Series relays combine Coto quality and economy in the industry standard 14 pin molded DIP package. This series will cross to all competitive DIP packages and is ideal for telecom, security, and other general purpose applications.

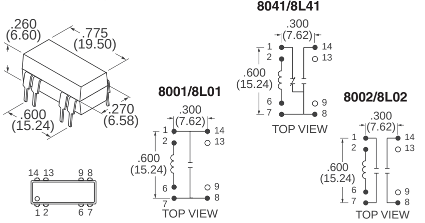

Fig. 6

The SIP relay is the industry choice for a wide variety of designs where economy, performance and a compact package are needed. The 9007 Spartan Series is a general purpose economy version of the 9001 for applications with less stringent requirements. The 9081 Spartan Series is similar to the 9007, but with alternate industry standard footprints to accommodate other options, including Form C types. These relays are well suited for applications in Security, Instrumentation and Modems.

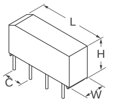

Series	Dimensions-inches (mm) L	W	H	C
9001/ 9007	.760 (19.30)	.200 (5.08)	.300 (7.62)	.200 (5.08)
9002	.760 (19.30)	.200 (5.08)	.300 (7.62)	.100 (2.54)
9091	.600 (15.24)	.150 (3.81)	.275 (6.98)	.150 (3.81)
9081	.890 (22.61)	.275 (6.99)	.315 (8.0)	.200 (5.08)

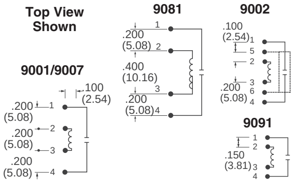

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each				Coto Part No.
								1	10	50	100	
1	SPST	5	33.3	0.5	1	With Electrostatic Shield	306-1001-ND	9.23	7.99	6.84	5.86	2200-2301
	SPST	5	33.3	0.5	1	With Coaxial Shield	306-1002-ND	9.46	8.19	7.01	6.01	2200-2302
	SPST	5	13.5	0.5	1	—	306-1003-ND	8.35	7.23	6.18	5.30	2204-05-401
	SPST	5	13.5	0.5	1	With Electrostatic Shield	306-1004-ND	8.58	7.43	6.36	5.45	2204-05-411
	SPST	12	8	0.5	1	—	306-1105-ND	8.50	7.36	6.30	5.40	2204-12-301
	SPST	12	8	0.5	1	With Electrostatic Shield	306-1005-ND	8.74	7.56	6.47	5.55	2204-12-311
	SPDT	5	21.8	0.25	0.5	—	306-1006-ND	11.66	10.27	9.02	8.19	2211-05-301
	SPDT	12	8	0.25	0.5	—	306-1007-ND	11.89	10.48	9.20	8.35	2211-12-301
2	DPST	5	28.5	0.5	1.5	—	306-1106-ND	8.58	7.43	6.36	5.45	2332-05-000
	DPST	12	12	0.5	1.5	—	306-1008-ND	8.58	7.43	6.36	5.45	2332-12-000
	SPDT	5	28.5	0.5	1.5	—	306-1107-ND	11.96	10.35	8.86	7.59	2341-05-000
	SPDT	12	12	0.5	1.5	—	306-1108-ND	11.96	10.35	8.86	7.59	2341-12-000
	3PST	5	28.5	0.5	1.5	—	306-1109-ND	10.74	9.30	7.96	6.82	2333-05-000
	3PST	12	12	0.5	1.5	—	306-1110-ND	10.74	9.30	7.96	6.82	2333-12-000
	DPDT	5	28.5	0.25	0.5	—	306-1111-ND	13.25	11.68	10.26	9.31	2342-05-000
	DPDT	12	12	0.25	0.5	—	306-1112-ND	13.25	11.68	10.26	9.31	2342-12-000
	SPDT	5	13.5	0.25	1	With Coaxial Shield	306-1113-ND	11.53	10.16	8.93	8.10	2911-05-321
	SPDT	12	8	0.25	1	With Coaxial Shield	306-1114-ND	11.66	10.27	9.02	8.19	2911-12-321
	SPST	12	8	0.5	1.5	—	306-1009-ND	8.89	7.70	6.59	5.65	2904-12-301
3	SPST	12	68.6	3.0	5	High Voltage - 7500V	306-1010-ND	22.94	20.73	19.70	18.66	5501-12-1
	SPST	24	41.7	3.0	5	High Voltage - 7500V	306-1011-ND	23.37	21.12	20.07	19.01	5501-24-1
4	SPST	12	16.7	0.5	2	High Reliability with E.S.	306-1012-ND	12.48	10.80	9.24	7.92	7101-12-1010
	SPST	12	16.7	0.5	2	High Reliability with E.S. and Diode	306-1013-ND	11.78	10.38	9.12	8.28	7101-12-1011
	DPST	12	16.7	0.5	2	High Reliability with E.S.	306-1014-ND	12.05	10.62	9.33	8.47	7102-12-1010
	DPST	12	16.7	0.5	2	High Reliability wtih E.S. and Diode	306-1015-ND	13.73	12.10	10.63	9.65	7102-12-1011
5	SPST	5	10	0.5	1	Extended Lifetime	306-1016-ND	4.23	3.58	2.99	2.44	8001-05-001
	DPST	5	10	0.5	1	Extended Lifetime with E.S.	306-1017-ND	5.88	4.98	4.17	3.40	8002-05-10
	DPST	12	24	0.5	1	Extended Lifetime	306-1192-ND ***NEW!***	5.69	4.82	4.03	3.29	8002-12-00
	SPDT	5	10	0.25	0.5	Extended Lifetime	306-1018-ND	7.25	6.14	5.13	4.19	8041-05-001
	SPST	5	10	0.5	1	Economy	306-1019-ND	2.21	1.87	1.57	1.28	8L01-05-001
	SPST	5	10	0.5	1	Economy with Diode	306-1020-ND	2.37	2.01	1.68	1.37	8L01-05-011
	SPST	5	10	0.5	1	Economy with E.S.	306-1021-ND	2.37	2.01	1.68	1.37	8L01-05-101
	SPST	5	10	0.5	1	Economy with E.S. and Diode	306-1022-ND	2.54	2.15	1.80	1.47	8L01-05-111
	SPST	12	24	0.5	1	Economy	306-1023-ND	2.21	1.87	1.57	1.28	8L01-12-001
	SPST	12	24	0.5	1	Economy with Diode	306-1024-ND	2.37	2.01	1.68	1.37	8L01-12-011
	SPST	12	24	0.5	1	Economy with E.S.	306-1025-ND	2.37	2.01	1.68	1.37	8L01-12-101
	SPST	12	24	0.5	1	Economy with E.S. and Diode	306-1026-ND	2.54	2.15	1.80	1.47	8L01-12-111
	SPST	24	11.1	0.5	1	Economy	306-1027-ND	2.37	2.01	1.68	1.37	8L01-24-001
	SPST	24	11.1	0.5	1	Economy with Diode	306-1028-ND	2.54	2.15	1.80	1.47	8L01-24-011
	SPST	24	11.1	0.5	1	Economy with E.S.	306-1029-ND	2.54	2.15	1.80	1.47	8L01-24-101

(Continued)

Fig. 7

The SIP relay is the industry choice for a wide variety of designs where economy, performance and a compact package are needed. The 9081C are 2 x SPST-C/O relays offered in industry standard packages. Use 9081C (.2 x .4 x .2) SIP for industry standard footprint applications or 9081C1 (.2 x .2 x .2 x .2) for standard footprint applications requiring a SPDT function. These relays are well-suited for applications in Security, Instrumentation and Modems.

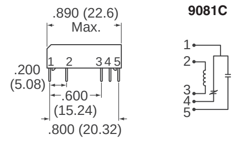

Fig. 8

The 9012 package dimensions are 47% smaller than standard 9000 SIPs, yet the relay retains the 10W switch ratings of its larger counterparts. The 9011 package dimensions is 65% smaller than the standard 9000 SIPs and incorporates the RI-70 switch rated 3W. The 9117 goes one step further, reducing package size by 65% from standard 9000 SIP's. This is the smallest SIP footprint with a 3W rating. These miniature SIP relays are ideal for use in ATE applications and other high reliability test, measurements and telecommunications applications where high board density and long life are key requirements.

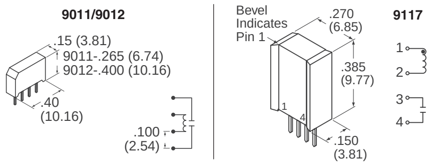

Fig. 9 ***NEW!***

The 9092 model, because of its increased height, allows for incorporation of 2 form A switches in the same board space. These miniature SIP relays utilize Coto's 10W switch technology, making these SIP relays ideal for use in ATE applications and other high reliability test, measurement and telecommunications applications where high board density and long life are key requirements.

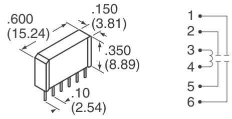

Fig.	Circuit	Coil Voltage (DC)	Coil Current (mA)	Switching Current (A)	Carry Current (A)	Additional Features	Digi-Key Part No.	Price Each				Coto Part No.
								1	10	50	100	
5	SPST	24	11.1	0.5	1	Economy with E.S. and Diode	306-1030-ND	2.73	2.31	1.94	1.58	8L01-24-111
	DPST	5	25	0.5	1	Economy	306-1031-ND	3.28	2.78	2.33	1.90	8L02-05-00
	DPST	5	25	0.5	1	Economy with Diode	306-1032-ND	3.48	2.95	2.47	2.01	8L02-05-01
	DPST	5	25	0.5	1	Economy with E.S.	306-1033-ND	3.48	2.95	2.47	2.01	8L02-05-10
	DPST	5	25	0.5	1	Economy with E.S. and Diode	306-1034-ND	3.64	3.08	2.58	2.10	8L02-05-11
	DPST	12	24	0.5	1	Economy	306-1035-ND	3.28	2.78	2.33	1.90	8L02-12-00
	DPST	12	24	0.5	1	Economy with Diode	306-1036-ND	3.48	2.95	2.47	2.01	8L02-12-01
	DPST	12	24	0.5	1	Economy with E.S.	306-1037-ND	3.48	2.95	2.47	2.01	8L02-12-10
	DPST	12	24	0.5	1	Economy with E.S. and Diode	306-1038-ND	3.64	3.08	2.58	2.10	8L02-12-11
	DPST	24	11.1	0.5	1	Economy	306-1039-ND	3.48	2.95	2.47	2.01	8L02-24-00
	DPST	24	11.1	0.5	1	Economy with Diode	306-1040-ND	3.64	3.08	2.58	2.10	8L02-24-01
	DPST	24	11.1	0.5	1	Economy with E.S. and Diode	306-1042-ND	3.84	3.25	2.72	2.22	8L02-24-11
	SPDT	5	25	0.25	0.5	Economy	306-1043-ND	4.75	4.02	3.36	2.74	8L41-05-001
	SPDT	5	25	0.25	0.5	Economy with Diode	306-1044-ND	4.91	4.16	3.48	2.84	8L41-05-011
	SPDT	5	25	0.25	0.5	Economy with E.S.	306-1045-ND	4.91	4.16	3.48	2.84	8L41-05-101
	SPDT	5	25	0.25	0.5	Economy with E.S. and Diode	306-1046-ND	5.10	4.32	3.62	2.95	8L41-05-111
	SPDT	12	24	0.25	0.5	Economy	306-1047-ND	4.75	4.02	3.36	2.74	8L41-12-001
	SPDT	12	24	0.25	0.5	Economy with Diode	306-1048-ND	4.91	4.16	3.48	2.84	8L41-12-011
	SPDT	12	24	0.25	0.5	Economy with E.S.	306-1050-ND	4.91	4.16	3.48	2.84	8L41-12-101
	SPDT	12	24	0.25	0.5	Economy with E.S. and Diode	306-1051-ND	5.10	4.32	3.62	2.95	8L41-12-111
	SPDT	24	11.1	0.25	0.5	Economy	306-1052-ND	4.91	4.16	3.48	2.84	8L41-24-001
	SPDT	24	11.1	0.25	0.5	Economy with E.S.	306-1053-ND	5.10	4.32	3.62	2.95	8L41-24-101
	SPDT	24	11.1	0.25	0.5	Economy with E.S. and Diode	306-1054-ND	5.30	4.49	3.75	3.06	8L41-24-111
6	SPST	5	10	0.5	1.5	Extended Lifetime	306-1055-ND	3.84	3.25	2.72	2.22	9001-05-00
	SPST	5	10	0.5	1.5	Extended Lifetime with Diode	306-1056-ND	4.06	3.44	2.88	2.35	9001-05-01
	SPST	12	12	0.5	1.5	Extended Lifetime	306-1057-ND	3.84	3.25	2.72	2.22	9001-12-00
	SPST	12	12	0.5	1.5	Extended Lifetime with Diode	306-1058-ND	4.06	3.44	2.88	2.35	9001-12-01
	SPST	5	10	0.5	1.5	50Ω Coaxial Shield	306-1059-ND	4.97	4.21	3.52	2.87	9002-05-00
	SPST	5	10	0.5	1.5	50Ω Coaxial Shield with Diode	306-1060-ND	5.17	4.38	3.66	2.99	9002-05-01
	SPST	12	16	0.5	1.5	50Ω Coaxial Shield	306-1118-ND	4.97	4.21	3.52	2.87	9002-12-00
	SPST	12	12	0.5	1.5	50Ω Coaxial Shield with Diode	306-1061-ND	5.17	4.38	3.66	2.99	9002-12-01
	SPST	5	10	0.5	1	Economy	306-1062-ND	1.46	1.24	1.04	.85	9007-05-00
	SPST	5	10	0.5	1	Economy with Diode	306-1063-ND	1.56	1.32	1.11	.90	9007-05-01
	SPST	12	12	0.5	1	Economy	306-1064-ND	1.46	1.24	1.04	.85	9007-12-00
	SPST	5	10	0.5	1	Economy	306-1115-ND	1.66	1.41	1.18	.96	9081-05-00
	SPST	24	12	0.5	1	Economy	306-1117-ND	1.82	1.54	1.29	1.05	9081-24-00
	SPST	5	10	0.5	1.0	With EMI Shield	306-1138-ND	1.76	1.49	1.25	1.02	9081-05-10
	SPST	5	10	0.25	1.5	Miniature Sip	306-1065-ND	4.13	3.50	2.93	2.39	9091-05-00
	SPST	5	10	0.25	1.5	Miniature Sip with Diode	306-1066-ND	4.26	3.61	3.02	2.46	9091-05-01
	SPST	12	12	0.25	1.5	Miniature Sip with Diode	306-1067-ND	4.26	3.61	3.02	2.46	9091-12-01
7	SPDT-C/O	5	40	0.4	1.0	Standard Version	306-1175-ND	4.75	4.02	3.36	2.74	9081C-05-00
	SPDT-C/O	5	40	0.4	1.0	With EMI Shield	306-1176-ND	5.14	4.35	3.64	2.97	9081C-05-10
	SPDT-C/O	12	24	0.4	1.0	Standard Version	306-1177-ND	4.81	4.07	3.41	2.78	9081C-12-00
	SPDT-C/O	12	24	0.4	1.0	With EMI Shield	306-1178-ND	5.23	4.43	3.71	3.02	9081C-12-10
	SPDT-C/O	24	12	0.4	1.0	Standard Version	306-1179-ND	4.91	4.16	3.48	2.84	9081C-24-00
	SPDT-C/O	24	12	0.4	1.0	With EMI Shield	306-1180-ND	5.30	4.49	3.75	3.06	9081C-24-10
8	SPST	5	10	0.25	0.5	With EMI Shield	306-1130-ND	7.18	6.08	5.09	4.15	9011-05-10
	SPST	5	10	0.25	0.5	With EMI Shield and Diode	306-1131-ND	7.44	6.30	5.27	4.30	9011-05-11
	SPST	12	16	0.25	0.5	With EMI Shield	306-1132-ND	7.51	6.36	5.32	4.34	9011-12-10
	SPST	12	16	0.25	0.5	With EMI Shield and Diode	306-1133-ND	7.74	6.55	5.48	4.47	9011-12-11
	SPST	5	10	0.5	1.5	With EMI Shield	306-1134-ND	5.85	4.95	4.14	3.38	9012-05-10
	SPST	5	10	0.5	1.5	With EMI Shield and Diode	306-1135-ND	6.08	5.15	4.31	3.51	9012-05-11
	SPST	12	16	0.5	1.5	With EMI Shield	306-1136-ND	6.18	5.23	4.37	3.57	9012-12-10
	SPST	12	16	0.5	1.5	With EMI Shield and Diode	306-1137-ND	6.40	5.42	4.54	3.70	9012-12-11
	SPST	5	12	0.25	0.5	With EMI Shield	306-1181-ND	10.40	9.00	7.70	6.60	9117-05-10
	SPST	5	12	0.25	0.5	With EMI Shield and Diode	306-1182-ND	10.53	9.12	7.80	6.69	9117-05-11
9	DPST	5	13.3	0.5	1.2	With EMI Shield	306-1183-ND ***NEW!***	10.09	8.73	7.47	6.41	9092-05-10
	DPST	5	13.3	0.5	1.2	With EMI Shield and Diode	306-1185-ND ***NEW!***	10.24	8.87	7.59	6.51	9092-05-11
	DPST	12	16	0.5	1.2	With EMI Shield	306-1184-ND ***NEW!***	10.14	8.78	7.51	6.44	9092-12-10
	DPST	12	16	0.5	1.2	With EMI Shield and Diode	306-1186-ND ***NEW!***	10.30	8.91	7.63	6.54	9092-12-11

Fig. 1 — HE700 Series

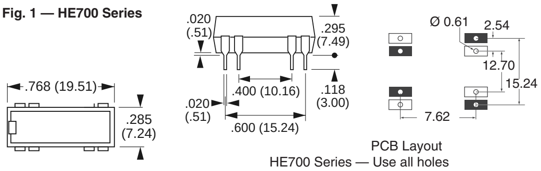

- Transfer Molded Body

HE700 Series — Use all holes
HE751 Series — Doesn't include shaded pins

Fig. 2 — HE200 Series

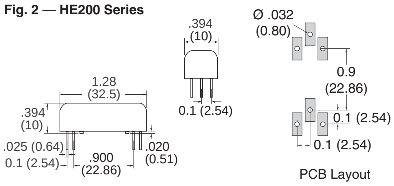

Fig. 3 — HE400 Series

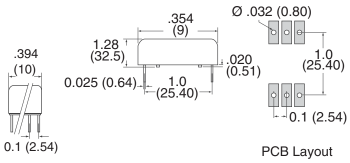

Fig. 4 — HE3300 Series

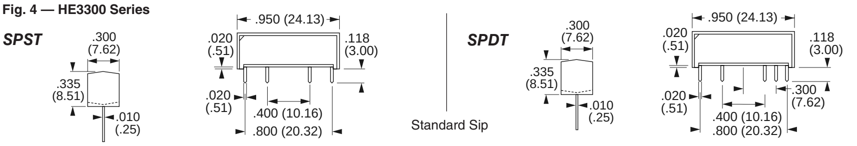

Fig. 5 — HE3600 Series

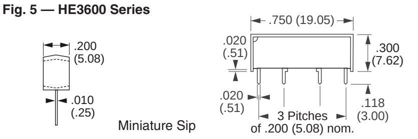

Top View	Coil Volt. (VDC)	Coil Res. (Ω)	Pickup/ Dropout (VDC@ 25°C)	Switch. Volt. (VDC)	Switch Current (Amps)	Carry Current (Amps)	Cont. Res. (Ω)	Oper./ Rel. Time (msec)	Ins. Res. (Ω)	Features	Digi-Key Part No.	Price Each				Hamlin Part No.
												1	10	50	100	
Fig. 1 — 700 Series DIP Reed Relays																
1A SPST-NO 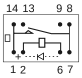	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE100-ND	1.59	1.35	1.13	.92	HE721A0500
	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE101-ND	1.69	1.43	1.20	.98	HE721A0510
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE102-ND	1.69	1.43	1.20	.98	HE721A1200
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE103-ND	1.79	1.52	1.27	1.04	HE721A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE104-ND	1.69	1.43	1.20	.98	HE721A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE105-ND	1.79	1.52	1.27	1.04	HE721A2410
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	Low Profile	HE138-ND	2.54	2.15	1.80	1.47	HE721A1215
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	Low Profile	HE139-ND	2.54	2.15	1.80	1.47	HE721A2415
2A DPST-NO 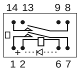	5	200	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE123-ND	3.19	2.70	2.26	1.84	HE722A0510
	5	150	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE106-ND	3.09	2.62	2.19	1.79	HE722A0600
	5	150	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE107-ND	3.19	2.70	2.26	1.84	HE722A0610
	12	500	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE108-ND	3.19	2.70	2.26	1.84	HE722A1200
	12	500	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE109-ND	3.28	2.78	2.33	1.90	HE722A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE110-ND	3.28	2.78	2.33	1.90	HE722A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE111-ND	3.38	2.86	2.40	1.95	HE722A2410
1C SPDT-CO 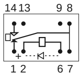	5	200	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	10^9	—	HE112-ND	3.87	3.28	2.74	2.24	HE721C0500
	5	200	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	10^9	w/Diode	HE113-ND	3.97	3.36	2.81	2.29	HE721C0510
	12	500	8.0/1.0	175	0.25	1.5	0.200	3.0/3.0	10^9	—	HE114-ND	3.97	3.36	2.81	2.29	HE721C1200
	12	500	8.0/1.0	175	0.25	1.5	0.200	3.0/3.0	10^9	w/Diode	HE115-ND	4.06	3.44	2.88	2.35	HE721C1210
	24	2000	16.0/2.0	175	0.25	1.5	0.200	3.0/3.0	10^9	—	HE116-ND	3.97	3.36	2.81	2.29	HE721C2400
	24	2000	16.0/2.0	175	0.25	1.5	0.200	3.0/3.0	10^9	w/Diode	HE117-ND	4.06	3.44	2.88	2.35	HE721C2410
1A SPST-NO 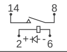	5	500	3.75/0.5	300	0.5	1.2	0.150	1.0/1.0	10^{10}	High Volt.	HE124-ND	2.08	1.76	1.48	1.20	HE751A0510
	12	1000	8.0/1.0	300	0.5	1.2	0.150	1.0/1.0	10^{10}	High Volt.	HE125-ND	2.18	1.85	1.55	1.26	HE751A1210
	24	2150	16.0/2.0	300	0.5	1.2	0.150	1.0/1.0	10^{10}	High Volt.	HE126-ND	2.28	1.93	1.61	1.32	HE751A2410
Fig. 2 — 200 Series DIP Reed Relays																
1A SPST-NO 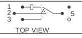	24	3285	16.8/1.4	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE120-ND	4.10	3.47	2.90	2.37	HE221A2450
Fig. 3 — 400 Series DIP Reed Relays																
1A SPST-NO 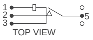	12	960	8.5/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE121-ND	3.87	3.28	2.74	2.24	HE421A1250
	24	3840	18.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE122-ND	4.10	3.47	2.90	2.37	HE421A2450
Fig. 4 — 3300 Series SIP Reed Relays																
1A SPST-NO 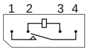	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE200-ND	1.63	1.38	1.15	.94	HE3321A0400
	12	500	9.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE201-ND	1.72	1.46	1.22	1.00	HE3321A1200
	24	2000	18.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE202-ND	1.82	1.54	1.29	1.05	HE3321A2400
	5	125	3.75/0.5	250	1.0	1.5	0.150	1.0/1.0	10^{10}	High Volt.	HE127-ND	2.15	1.82	1.52	1.24	HE3351A0500
	12	500	9.0/1.0	250	1.0	1.5	0.150	1.0/1.0	10^{10}	High Volt.	HE128-ND	2.24	1.90	1.59	1.30	HE3351A1200
	24	2000	18.0/2.0	250	1.0	1.5	0.150	1.0/1.0	10^{10}	High Volt.	HE129-ND	2.31	1.96	1.64	1.34	HE3351A2400
1C SPDT-CO 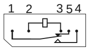	5	125	3.75/0.5	175	0.25	1.5	0.200	3.0/3.0	10^9	—	HE203-ND	4.00	3.39	2.83	2.31	HE3321C0500
	12	500	9.0/1.0	175	0.25	1.5	0.200	3.0/3.0	10^9	—	HE204-ND	4.10	3.47	2.90	2.37	HE3321C1200
	24	2000	18.0/2.0	175	0.25	1.5	0.200	3.0/3.0	10^9	—	HE205-ND	4.10	3.47	2.90	2.37	HE3321C2400
Fig. 5 — 3600 Series Ultra Miniature Reed Relays																
1A SPST-NO 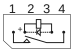	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE206-ND	1.59	1.35	1.13	.92	HE3621A0500
	5	500	3.75/0.5	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE207-ND	1.69	1.43	1.20	.98	HE3621A0510
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE208-ND	1.72	1.46	1.22	1.00	HE3621A1200
	12	1000	8.0/1.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE209-ND	1.85	1.57	1.32	1.07	HE3621A1210
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	—	HE210-ND	1.72	1.46	1.22	1.00	HE3621A2400
	24	2150	16.0/2.0	200	0.5	1.2	0.150	1.0/1.0	10^{10}	w/Diode	HE211-ND	1.85	1.57	1.32	1.07	HE3621A2410

COTO TECHNOLOGY

RF Relays

B10 Relays: Coto's Ball Grid Array (BGA) construction offers a breakthrough in reed relay performance. This patented technology allows for shorter RF paths in a controlled 50Ω environment to minimize signal attenuation. The designer is now able to switch or pass signals with wider bandwidth and faster rise time than alternative technologies. **B40 Relays:** The B40 is four independent form A channels in one quad package. This 4-in-one BGA packaging allows relays to be integrated easily on boards designed for surface mount processing. **B41 Relays:** The B41 is four independent form A channels in one planar quad package. Coto's Ball Grid Array (BGA) patented technology allows for shorter RF paths in a controlled 50Ω environment to minimize signal attenuation. The designer is now able to switch or pass signals with wider bandwidth and faster rise time than alternative technologies. **Applications:** • IC Testers • In-Line Relay Testers • Memory Testers • Mixed Signal Testers • High Bandpass Applications

Fig. 1 — B10

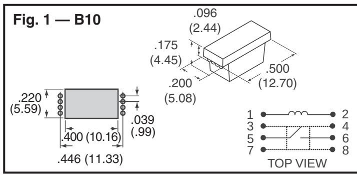

Fig. 2 — B40

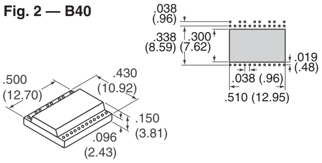

Fig. 3 — B41

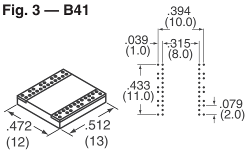

Fig.	Circuit	Coil Voltage (DC)	Coil Resistance (Ω)	Switching Current (Amps)	Carry Current (Amps)	Additional Features	Digi-Key Part No.	Price Each			Coto Part No.
								1	10	50	
B10 Series, "In-Board Mount"											
1	SPST	3.3	55.0	0.25	0.5	50Ω BGA Surface Mount	306-1152-5-ND	13.04	11.49	10.10	B10-03B
1	SPST	5.0	150.0	0.25	0.5	50Ω BGA Surface Mount	306-1153-5-ND	13.04	11.49	10.10	B10-05B
B40 Series, 4 Channel, "In-Board Mount"											
2	4PST	3.3	55.0	0.25	0.5	4 Channels-in-one BGA	306-1154-ND	64.35	61.33	57.92	B40-0002B
2	4PST	5.0	166.0	0.25	0.5	4 Channels-in-one BGA	306-1155-ND	64.35	61.33	57.92	B40-0003B
B41 Series, 4 Channel, "Top-Board Mount"											
3	4PST	3.3	160.0	0.40	0.5	4 Channels-in-one BGA	306-1173-ND	67.28	63.91	60.55	B41-0001
3	4PST	5.0	160.0	0.40	0.5	4 Channels-in-one BGA	306-1174-ND	67.28	63.91	60.55	B41-0002

USRELAYS & TECHNOLOGY

Reed Relays

Fig. 1 Dip Reed Relays

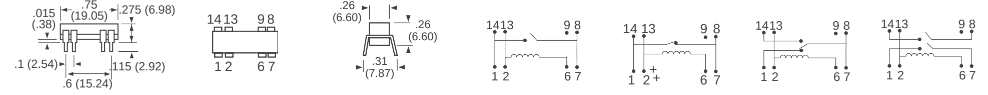

Fig. 2 Series 10 Reed Relays

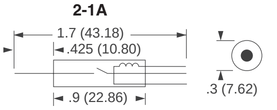

Fig. 3 Series 30 Sip Reed Relays

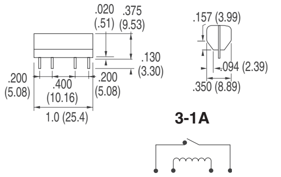

Fig. 4 Open-Line Reed Relays

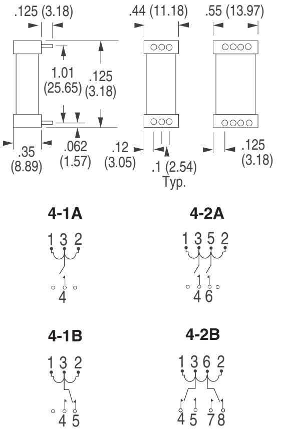

Fig. Form	Coil Volt. (VDC)	Coil Res. (Ω)	Pickup/ Dropout (VDC)	Max. Volt. (VDC)	Cur. Rtg. (A)	Cont. Res. (Ω)	Oper./ Release /-Bounce Time (msec.)	Power Rtg. (W)	Ins. Res. (Ω)	Digi-Key Part No.	Price Each 1	10	50	100	US Relays Part No.
Dip Reed Relays															
1-1A	5	500	4.0/0.5	100	.50	.20	.5/.5/.5	10	10^{10}	Z660-ND	4.06	3.44	2.88	2.35	D1A05A
	12	1000	9.6/1.2	100	.50	.20	.5/.5/.5	10	10^{10}	Z661-ND	4.06	3.44	2.88	2.35	D1A12A
	24	2200	19.2/2.4	100	.50	.20	.5/.5/.5	10	10^{10}	Z612-ND	4.19	3.55	2.97	2.42	D1A24A
1-2A	5	150	4.0/0.5	100	.50	.20	.5/.5/.5	10	10^{10}	Z662-ND	5.98	5.06	4.24	3.45	D2A05A
	12	500	9.6/1.2	100	.50	.20	.5/.5/.5	10	10^{10}	Z614-ND	5.98	5.06	4.24	3.45	D2A12A
	24	1750	19.2/2.4	100	.50	.20	.5/.5/.5	10	10^{10}	Z615-ND	6.14	5.20	4.35	3.55	D2A24A
1-1B	5	450	4.0/0.5	100	.50	.20	.35/.5/.5	10	10^{10}	Z616-ND	5.98	5.06	4.24	3.45	D1B05A
	12	450	9.6/1.2	100	.50	.20	.35/.5/.5	10	10^{10}	Z617-ND	5.98	5.06	4.24	3.45	D1B12A
	24	1750	19.2/2.4	100	.50	.20	.35/.5/.5	10	10^{10}	Z618-ND	6.14	5.20	4.35	3.55	D1B24A
1-1C	5	200	4.0/0.5	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z663-ND	7.31	6.19	5.18	4.22	D1C05C
	12	500	4.0/0.5	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z664-ND	7.31	6.19	5.18	4.22	D1C12C
	24	1750	19.2/2.4	28	.25	.20	.5/.5/NO = .5, NC = 1.5	3	10^{9}	Z621-ND	7.48	6.33	5.29	4.32	D1C24C
Series 10 Reed Relays															
2-1A	3	250	2.25/0.3	200	.5	.10	.5/.25/—	5	10^{10}	Z622-ND	4.71	3.99	3.34	2.72	R1A3AHH
	5	700	3.75/0.5	200	.5	.10	.5/.25/—	5	10^{10}	Z623-ND	4.88	4.13	3.45	2.82	R1A5AHH
	12	2000	9.0/1.2	200	.5	.10	.5/.25/—	5	10^{10}	Z624-ND	5.20	4.40	3.68	3.00	R1A12AHH
	24	4000	18.0/2.4	200	.5	.10	.5/.25/—	5	10^{10}	Z625-ND	7.31	6.19	5.18	4.22	R1A24AHH
	3	30	2.25/0.3	300	2	.10	.5/.25/—	50	10^{10}	Z626-ND	4.29	3.63	3.04	2.48	P1A3A
	5	100	3.75/0.5	300	2	.10	.5/.25/—	50	10^{10}	Z627-ND	4.29	3.63	3.04	2.48	P1A5A
	12	500	9.0/1.2	300	2	.10	.5/.25/—	50	10^{10}	Z628-ND	4.42	3.74	3.13	2.55	P1A12A
	24	1000	18.0/2.4	300	2	.10	.5/.25/—	50	10^{10}	Z629-ND	5.36	4.54	3.80	3.10	P1A24A
Series 30 Sip Reed Relays															
3-1A	5	500	3.8/0.5	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z530-ND	4.06	3.44	2.88	2.35	SD1A05A
	12	500	8.0/1.0	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z531-ND	4.06	3.44	2.88	2.35	SD1A12A
	24	2000	16.0/2.0	200	.5	.20	0.4/0.1/0.3	10	10^{9}	Z532-ND	4.19	3.55	2.97	2.42	SD1A24A
	5	500	3.8/0.5	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z533-ND	4.62	3.91	3.27	2.67	SD1A05D
	12	500	8.0/1.0	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z534-ND	4.62	3.91	3.27	2.67	SD1A12D
	24	2000	16.0/2.0	250	1	.20	0.5/0.3/0.3	50	10^{9}	Z535-ND	4.75	4.02	3.36	2.74	SD1A24D
Open-Line Reed Relays															
4-1A	5	500	3.8/0.5	250	1	.10	0.4/0.2/0.25	20	10^{10}	Z638-ND	6.99	5.92	4.95	4.04	20-1051-10
	12	500	8.0/1.0	250	1	.10	0.4/0.2/0.25	20	10^{10}	Z639-ND	6.99	5.92	4.95	4.04	20-1121-10
	24	2000	16.0/2.0	250	1	.10	0.4/0.2/0.25	20	10^{10}	Z640-ND	8.06	6.82	5.71	4.65	20-1241-10
4-2A	5	200	3.8/0.5	250	1	.10	0.5/0.2/0.25	20	10^{10}	Z641-ND	8.61	7.29	6.10	4.97	20-2051-10
	12	440	8.0/1.0	250	1	.10	0.5/0.2/0.25	20	10^{10}	Z642-ND	8.61	7.29	6.10	4.97	20-2121-10
	24	1750	16.0/2.0	250	1	.10	0.5/0.2/0.25	20	10^{10}	Z643-ND	9.10	7.70	6.44	5.25	20-2241-10
4-1B	5	500	3.8/0.5	200	.5	.10	0.5/0.4/1.5	10	10^{10}	Z644-ND	7.75	6.71	5.76	4.92	20-1051-30
	24	2000	16.0/2.0	200	.5	.10	0.5/0.4/1.5	10	10^{10}	Z646-ND	8.45	7.32	6.28	5.37	20-1241-30
4-2B	5	200	3.8/0.5	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z647-ND	11.18	9.68	8.30	7.10	20-2051-30
	12	310	8.0/1.0	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z648-ND	11.18	9.68	8.30	7.10	20-2121-30
	24	1250	16.0/2.0	200	.5	.10	0.6/0.4/1.5	10	10^{10}	Z649-ND	11.65	10.08	8.65	7.40	20-2241-30

Surface Mount Reed Relays

Fig. 1

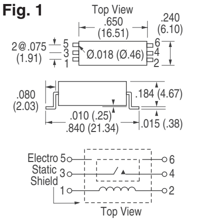

Fig. 2

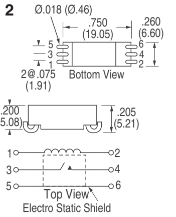

Fig. 3

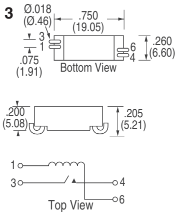

Fig. 4

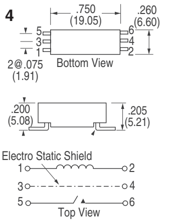

Fig. 5

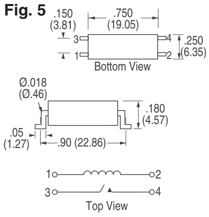

Fig. 6

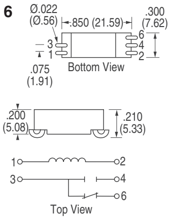

Fig.	Coil Voltage (VDC)	Coil Resistance (Ω)	Pickup/ Dropout (VDC)	Maximum Voltage (VDC)	Current Rating mA	Cont. Resistance (Ω)	Operate Time (msec.)	Ins. Resistance (Ω)	Digi-Key Part No.	Price Each 1	10	50	US Relays Part No.
1	4.5	150	3.5/0.5	250	500	.1	.35	$7x10^{12}$	Z650-ND	9.75	8.44	7.24	SMRR1-5-150C
2	5	150	3.75/0.4	200	500	.150	.35	$7x10^{12}$	Z651-ND	10.40	9.00	7.72	SMRR2-5-150C
3	5	150	3.75/0.4	200	500	.150	.35	$7x10^{12}$	Z652-ND	10.08	8.53	7.13	SMRR2-5-150E
4	5	150	3.8/0.5	250	500	.150	.35	$7x10^{12}$	Z653-ND	11.70	10.13	8.69	SMRR2-5-150F
5	5	250	3.75/0.4	200	500	.150	.35	$7x10^{12}$	Z654-ND	9.26	7.84	6.56	SMRR2-5-250
6	5	150	3.8/0.5	28	250	.2	.5	$7x10^{12}$	Z655-ND	10.79	9.34	8.01	SMRR3-5-150

ITT

Magnetic Sensors

Fig. 1

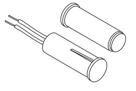

Fig. 2

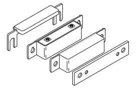

Fig. 3

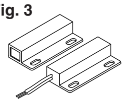

Fig. 4

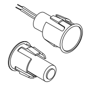

Fig. 5

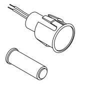

Fig. 6

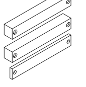

Fig. 7

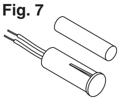

ITT's MPS Series Magnetic Proximity Sensors operate when a magnetic field approaches two magnetic reed blades. The magnetic field overcomes the spring tension of the blades and brings the contacts together. When the magnetic actuator is removed, the reeds separate by their own spring tension. Comes complete with reed switch and matching actuator. **FEATURES:** • Long Life Expectancy — 10 million operations • Housing made of rugged impact resistant ABS plastic that meets or exceeds UL requirements for fire retardation • Sealed Contacts allowing the reed to operate in damp and dusty environments • Wide gap performance makes magnet and switch alignment less critical. **SPECIFICATIONS:** • **Contact Ratings:** 100VDC or 100VAC maximum @ 0.3 Amp Maximum; 1.0 Amp Maximum Carry Current • **Operating Temperature:** -40°C ~ 100°C • **Mechanical & Electrical Life:** 10 Million Operations **MATERIALS:** • **Housing/Spacer/Cover:** ABS Plastic (UL94V-0), white • **Wire Leads:** UL1061, 22 AWG: stranded, made of copper or aluminum; Length: 12" (30.48cm) with ends stripped; Color: white • **Magnets:** Alnico V and Ceramic Ferrite 8 (MPS80WG model only).

NOTE: Wide gap contacts are polarity sensitive. Use alignment dots for proper installation of surface mount contacts.

Fig.	Make Gap (mm)	Release Gap (mm)	Digi-Key Part No.	Price Each 1	10	100	250	ITT Ind. Part No.
1	31.75	40.64	CKN6002-ND	5.72	4.95	4.17	3.78	MPS9WGW
2	31.75	31.75	CKN6003-ND	7.07	6.11	5.15	4.66	MPS20WGW
3	25.40	33.02	CKN6004-ND	6.06	5.24	4.41	4.00	MPS45WGW
4	31.75	40.64	CKN6005-ND	6.73	5.82	4.90	4.44	MPS70WGW
5	31.75	40.64	CKN6006-ND	6.73	5.82	4.90	4.44	MPS73WGW
6	50.80	50.80	CKN6007-ND	6.73	5.82	4.90	4.44	MPS80WGW
7	31.75	40.64	CKN6008-ND	5.72	4.95	4.17	3.78	MPS95WGW

HAMLIN Magnetic Reed Switches

The basic reed switch consists of two ferromagnetic reeds, hermetically sealed in a gas filled capsule. When these reeds are introduced to a magnetic field, they assume opposite polarities and attract toward each other closing the contacts. When the magnetic field is reduced beyond the spring force of the reeds the contacts again spring open. Hamlin's reed switches are ideal in auto, marine and moist environment applications and operating environments can be almost anywhere from air, submerged in water or fuels, to dust-laden atmospheres. Ampere Turns (AT) is the reed switches sensitivity to a magnetic field. The smaller AT number, the more sensitive the reed switch to magnetic fields.

Fig. 1

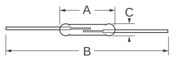

Fig. 2

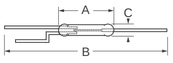

Fig. 3 (SMT)

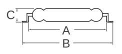

Fig.	Circuit	Ampere Turns	Maximum DC Contact Rating		Switching Current (Amp)	Carry Current (Amp)	Operate/ Release (ms)	Dimensions (mm)			Digi-Key Part No.	Price Each			Hamlin Part No.
			Watts	Volts				A	B	C		1	10	50	
Axial Lead Reed Switches															
1	SPST	6-12	10	170	0.5	0.5	.45/.2	7.00	46.00	1.80	HE516-ND	1.40	1.19	.99	MITI-3V1 6-12.5
		22-28	20	200	1.0	1.5	.8/.25	19.05	56.64	2.66	HE545-ND	2.80	2.37	1.98	MLRR-2 22-28
		27-33	20	200	1.0	1.5	.8/.25	19.05	56.64	2.66	HE536-ND	2.80	2.37	1.98	MLRR-2 27-33
		32-38	20	200	1.0	1.5	.8/.25	19.05	56.64	2.66	HE537-ND	2.80	2.37	1.98	MLRR-2 32-38
		17-23	20	200	1.0	1.2	.7/.2	15.24	56.64	2.66	HE133-ND	.85	.72	.60	MLRR-3 17-23
		22-28	20	200	1.0	1.2	.7/.2	15.24	56.64	2.66	HE538-ND	1.92	1.63	1.36	MLRR-3 22-28
		32-38	20	200	1.0	1.2	.7/.2	15.24	56.64	2.66	HE539-ND	1.92	1.63	1.36	MLRR-3 32-38
		17-23	20	200	1.0	1.0	.6/.2	15.24	40.38	2.66	HE540-ND	1.92	1.63	1.36	MLRR-4 17-23
		22-28	20	200	1.0	1.0	.6/.2	15.24	40.38	2.66	HE541-ND	1.92	1.63	1.36	MLRR-4 22-28
		10-20	10	200	0.5	0.8	.6/.2	12.70	40.39	1.83	HE500-ND	.88	.75	.63	MDSR-7 10-20
		20-25	10	200	0.5	0.8	.6/.2	12.70	40.39	1.80	HE535-ND	2.02	1.71	1.43	MDSR-7 20-25
		17-28	10	300	0.5	1.5	.6/.2	15.24	40.38	2.28	HE501-ND	1.11	.94	.79	MDRR-6 17-28
		27-33	10	200	0.5	1.5	.6/.2	15.24	40.38	2.28	HE530-ND	2.54	2.15	1.80	MDRR-6 27-33
		37-43	10	200	0.5	1.5	.6/.2	15.24	40.38	2.28	HE531-ND	2.54	2.15	1.80	MDRR-6 37-43
		12-23	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE502-ND	.78	.66	.56	MDSR-4 12-23
		27-33	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE533-ND	1.79	1.52	1.27	MDSR-4 27-33
		32-38	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE534-ND	1.79	1.52	1.27	MDSR-4 32-38
		12-33	10	200	0.5	1.2	.6/.2	15.24	40.39	2.29	HE503-ND	.78	.66	.56	MDCG-4 12-33
		17-23	10	200	0.75	1.5	.75/.3	19.687	56.77	2.66	HE135-ND	1.01	.86	.72	MARR-2 17-23
		22-28	10	200	0.75	1.5	.75/.3	19.05	56.64	2.66	HE136-ND	1.01	.86	.72	MARR-2 22-28
		27-33	10	200	0.75	1.5	.75/.3	19.05	56.64	2.66	HE527-ND	2.28	1.93	1.61	MARR-2 27-33
		32-38	10	200	0.75	1.5	.75/.3	19.05	56.64	2.66	HE528-ND	2.28	1.93	1.61	MARR-2 32-38
		17-23	10	1000	0.5	1.3	.75/.3	19.05	56.77	2.66	HE544-ND	5.46	4.62	3.87	MARR-5 17-23
		22-33	10	1000	0.5	1.3	.75/.3	19.69	56.77	2.66	HE504-ND	2.37	2.01	1.68	MARR-5 22-33
		32-38	10	1000	0.5	1.3	.75/.3	19.69	56.77	2.66	HE529-ND	5.46	4.62	3.87	MARR-5 32-38
		27-33	50	200	1.5	3.0	.75/.3	19.69	56.64	2.84	HE546-ND	2.54	2.15	1.80	MRPR-3 27-33
		32-38	50	200	1.5	3.0	.75/.3	19.69	56.64	2.84	HE547-ND	2.54	2.15	1.80	MRPR-3 32-38
		37-43	50	200	1.5	3.0	.75/.3	19.69	56.64	2.84	HE542-ND	2.54	2.15	1.80	MRPR-3 37-43
		17-23	50	250	1.0	2.5	.75/.3	20.32	56.64	2.84	HE543-ND	3.28	2.78	2.33	MRPR-8 17-23
		22-38	50	250	1.0	2.5	.75/.3	20.32	56.64	2.84	HE505-ND	1.43	1.21	1.02	MRPR-8 22-38
2	SPDT	15-25	5	175	0.25	1.5	.7/1	14.73	51.66	2.54	HE506-ND	3.06	2.59	2.17	MDRR-DT 15-25
		30-35	5	175	0.25	1.5	.7/1	14.73	51.66	2.54	HE532-ND	6.99	5.92	4.95	MDRR-DT 30-35
		50-65	50	500	1.5	2.0	5.5/8	39.37	85.73	5.33	HE508-ND	14.76	12.49	10.45	DRT-DTH 50-65
		70-75	50	500	1.5	2.0	5.5/8	38.10	85.73	5.33	HE525-ND	33.83	28.63	23.95	DRT-DTH 70-75
		80-85	50	500	1.5	2.0	5.5/8	38.10	85.73	5.33	HE526-ND	33.83	28.63	23.95	DRT-DTH 80-85
		75-80	30	500	0.5	3.0	4.5/7.0	38.10	85.73	5.33	HE134-ND	11.28	9.55	7.99	DRR-DTH 75-80
		40-45	30	500	0.5	3.0	4.5/7	38.10	85.73	5.33	HE521-ND	18.56	15.71	13.14	DRR-DTH 40-45
		45-50	30	500	0.5	3.0	4.5/7	38.10	85.73	5.33	HE522-ND	25.87	21.89	18.31	DRR-DTH 45-50
		65-70	30	500	0.5	3.0	4.5/7	38.10	85.73	5.33	HE523-ND	18.56	15.71	13.14	DRR-DTH 65-70
		85-90	30	500	0.5	3.0	4.5/7	38.10	85.73	5.33	HE524-ND	25.87	21.89	18.31	DRR-DTH 85-90
1	SPST	42-48	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE517-ND	6.37	5.39	4.51	DRR-129 42-48
		47-68	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE509-ND	3.87	3.28	2.74	DRR-129 47-68
		67-73	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE518-ND	6.37	5.39	4.51	DRR-129 67-73
		77-83	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE519-ND	6.37	5.39	4.51	DRR-129 77-83
		87-93	100	400	3.0	6.0	4.5/2.5	50.80	82.55	5.25	HE520-ND	6.37	5.39	4.51	DRR-129 87-93

Fig.	Circuit	Operate Time (ms)	Release Time (ms)	Switching Volt. (max.)	Switching Current	Carry Current	Dimensions (mm)			Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T & R Pricing		Hamlin Part No.
							A	B	C		1	10	50		3,000	6,000	
SMT Reed Switches																	
3	SPST	0.6	0.2	200VDC	0.5	1.2	17.52	19.30	2.84	HE151CT-ND	1.02	.87	.73	HE151TR-ND	391.50/M	362.50/M	MDSM-4R 12-18
					0.5	0.8	16.64	21.03	1.27	HE152CT-ND	1.26	1.08	.90	HE152TR-ND	486.00/M	450.00/M	MDSM-7R 10-15

Magnets

A permanent magnet is the most common source for operating the magnetic reed switch. The method used to position the magnet depends upon the switching requirement but can be used in one of four basic techniques; perpendicular or parallel motion (up and down, side to side) rotation (revolving magnet or switch), shielding (passing a ferromagnetic material between the switch and magnet) or biasing which is using one magnet of opposite polarity to cancel another magnet's lines of force.

Fig. 1

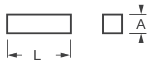

Fig. 2

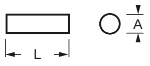

Fig. 3

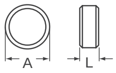

Fig.	Dimension (mm) A x L	Use with A.T. Range	Gauss Strength	Digi-Key Part No.	Price Each			Hamlin Part No.
					1	10	50	
1	1.57 Sq. x 12.70	10-38	45	HE510-ND	1.24	1.05	.88	H-31
1	4.83 Sq. x 25.40	10-38	200	HE511-ND	3.09	2.62	2.19	H-32
1	3.2 Sq. x 19.1	10-38	135	HE512-ND	1.69	1.43	1.20	H-33
2	3.05 Dia. x 14.99	10-38	120	HE155-ND	1.92	1.63	1.36	315
1	6.35 Sq. x 25.4	10-68	260	HE513-ND	3.51	2.97	2.49	H-34
2	4.62 Dia x 25.40	10-68	155	HE154-ND	2.05	1.74	1.45	H-36
2	3.81 Dia. x 19.81	10-38	175	HE514-ND	1.63	1.38	1.15	420
2	6.00 Dia. x 25.00	10-68	235	HE515-ND	4.65	3.94	3.29	625
3	12.70 Dia. x 5.08	10-38	800	HE153-ND	1.24	1.05	.88	CM-1

CHERRY Magnetic Reed Position Sensors

Features: • **Operating Temperature:** -40°C ~ 105°C
• **Leads:** 24 AWG PVC, Pre-tinned, 12" long

Fig. 1

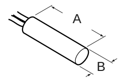

Fig. 2

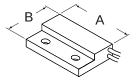

Fig. 3

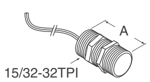

Fig. 4

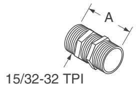

Fig.	Description	Dim. (Inch)		Digi-Key Part No.	Price Each			Cherry Part No.
		A	B		1	10	50	
1	Magnetic Position Sensor, 10W, SPST-NO, .5A	1.00	ø.243	CH402-ND	3.16	2.81	2.34	MP201701
	Magnetic Position Sensor, 3W, SPST-NC, .2A	1.00	ø.243	CH403-ND	5.27	4.68	3.90	MP201702
1	Smooth Barrel Actuator	1.00	ø.243	CH411-ND	2.97	2.64	2.20	AS201701
2	Mini Flange Mount Proximity Sensors,10W, SPST-NO, .5A	.906	.550	CH405-ND	3.46	3.08	2.56	MP201801
	Mini Flange Mount Proximity Sensors, 3W, SPST-NC, .2A	.906	.550	CH406-ND	5.32	4.73	3.94	MP201802
2	Mini Flange Mount Actuator	.906	.550	CH412-ND	3.11	2.76	2.30	AS201801
2	Flange Mount Proximity Sensors, 10W, SPST-NO, .5A	1.125	.750	CH407-ND*	3.59	3.20	2.66	MP201901
	Flange Mount Proximity Sensors, 3W, SPDT-CO, .2A	1.125	.750	CH409-ND*	5.94	5.28	4.40	MP201903
2	Flange Mount Actuator	1.125	.750	CH413-ND	3.38	3.00	2.50	AS201901
3	Magnetic Position Sensor Aluminum 10W, SPST-NO, .5A	1.00	—	CH410-ND	10.13	9.00	7.50	MP200701
	Magnetic Position Sensor Aluminum 3W, SPST-NC, .2A	1.00	—	CH709-ND	12.56	11.16	9.30	MP200702
	Magnetic Position Sensor Aluminum 3W, SPDT-CO, .2A	1.00	—	CH710-ND	13.10	11.64	9.70	MP200703
4	Threaded Actuator, South pole magnet	1.00	—	CH397-ND	14.01	12.46	10.38	HE610400

*Wire leads extend from opposite side of switch

HAMLIN

Magnetic Position Sensors

Specifications:

• **Switching Voltage:** SPST - N/O - 200VDC, SPST - HV - 300VDC, SPDT - 175VDC, SPST - N/C - 175VDC • **Initial Contact Resistance:** 0.200Ω • **Typical Operate Time:** 1.00ms • **Shock without False Operation:** 100G's, 11ms, 1/2 sine wave • **Operate and Storage Temperature:** -40°C ~ 105°C

Fig. 1

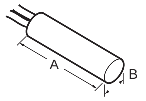

Fig. 2

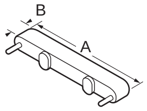

Fig. 3

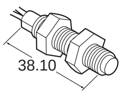

3A = 5/16 - 24 Thread
3B = M8 x 1.25 Thread

Fig. 4

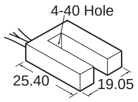

Fig. 5

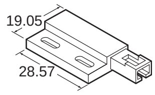

Fig. 6

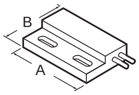

Fig. 7

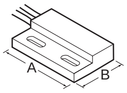

Fig. 8

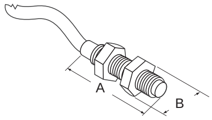

Fig. 9 (SMT)

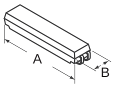

J-Lead

Fig. 10 (SMT)

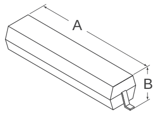

Gull-Lead

Fig. 5 mates with Digi-Key part number WM2900 (connector), WM2510 (contact)

Fig.	Dimension (mm) A	Dimension (mm) B	Must Operate/Release Distance (mm)	Termination or Wiring	Digi-Key Sensor Part No.	Price Each 1	Price Each 10	Price Each 50	Matching Magnet Part No.	Price Each 1	Price Each 10	Price Each 50
					SPST-N/O							
1	16.4	5.10	2.54/7.62	12" PVC Leads	59020-010-ND	5.69	4.82	4.03	57020-000-ND	3.64	3.08	2.58
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-010-ND•	3.19	2.70	2.26	57025-000-ND•	2.63	2.23	1.87
2	17.78	4.32	1.90/13.97	PCB Pins	59045-010-ND	2.05	1.74	1.45	57045-000-ND	3.09	2.62	2.19
2	22.86	4.57	3.81/19.05	PCB pins	59050-010-ND•	1.72	1.46	1.22	57050-000-ND•	3.19	2.70	2.26
3A	—	—	3.81/20.32	12" PVC Leads	59065-010-ND•	4.10	3.47	2.90	57065-000-ND•	3.28	2.78	2.33
3B	—	—	3.81/20.32	12" PVC Leads	59070-010-ND	4.10	3.47	2.90	57070-000-ND	3.09	2.62	2.19
8	46.0	M12	10.0/30.0	16' 4" HD Cable	59075-1-T-50-F-ND	16.20	13.55	11.05	57075-000-ND	30.53	25.53	20.82
8	46.0	M12	10.0/30.0	20" HD Cable	59075-1-U-03-A-ND	16.20	13.55	11.05	57075-000-ND	30.53	25.53	20.82
4	—	—	2.54/6.35	12" PVC Leads	59085-010-ND	9.10	7.70	6.44	—	—	—	—
5	—	—	3.81/20.32	Connector	59105-010-ND	4.32	3.66	3.06	57105-000-ND	2.73	2.31	1.94
6	28.57	19.05	3.81/20.32	Pins	59125-010-ND•	3.77	3.19	2.67	57125-000-ND•	2.73	2.31	1.94
7	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-010-ND	6.83	5.78	4.83	57135-000-ND	3.64	3.08	2.58
6	23.01	14.00	4.44/20.32	12" PVC Leads	59140-010-ND	3.19	2.70	2.26	57140-000-ND	2.96	2.51	2.10
6	28.57	19.05	5.71/20.32	12" PVC Leads	59145-010-ND•	3.41	2.89	2.42	57145-000-ND•	2.73	2.31	1.94
7	28.57	19.05	5.71/20.32	12" PVC Leads	59150-010-ND•	3.41	2.89	2.42	57150-000-ND•	2.73	2.31	1.94
9	20.32	3.75	3.93/11.17	J-Lead SMT	59160-010-ND	2.28	1.93	1.61	57050-000-ND	3.19	2.70	2.26
10	16	2.51	7.5/ —	Gull Lead SMT	59165-1-S-00-C-ND	1.82	1.54	1.29	—	—	—	—
10	16	2.51	6.5/ —	Gull Lead SMT	59165-1-T-00-C-ND	1.82	1.54	1.29	—	—	—	—
10	16	2.51	5.0/ —	Gull Lead SMT	59165-1-U-00-C-ND	1.82	1.54	1.29	—	—	—	—
					SPST-HV-N/O							
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-020-ND†	3.64	3.08	2.58	57025-000-ND†	2.63	2.23	1.87
2	22.86	4.57	3.81/19.05	PCB Pins	59050-020-ND†	2.28	1.93	1.61	57050-000-ND†	3.19	2.70	2.26
3A	—	—	3.81/20.32	12" PVC Leads	59065-020-ND†	4.55	3.85	3.22	57065-000-ND†	3.28	2.78	2.33
3B	—	—	3.81/20.32	12" PVC Leads	59070-020-ND†	4.55	3.85	3.22	57070-000-ND†	3.09	2.62	2.19
5	—	—	3.81/20.32	Connector	59105-020-ND†	4.97	4.21	3.52	57105-000-ND†	2.73	2.31	1.94
6	28.57	19.05	3.81/20.32	Pins	59125-020-ND†	4.32	3.66	3.06	57125-000-ND†	2.73	2.31	1.94
7	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-020-ND	7.28	6.16	5.16	57135-000-ND	3.64	3.08	2.58
6	23.01	14.00	4.44/20.32	12" PVC Leads	59140-020-ND†	3.87	3.28	2.74	57140-000-ND†	2.96	2.51	2.10
6	28.57	19.05	5.71/20.32	12" PVC Leads	59145-020-ND†	4.10	3.47	2.90	57145-000-ND†	2.73	2.31	1.94
7	28.57	19.05	5.71/20.32	12" PVC Leads	59150-020-ND†	4.10	3.47	2.90	57150-000-ND†	2.73	2.31	1.94
					SPDT-O/C							
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-030-ND•	4.78	4.05	3.39	57025-000-ND•	2.63	2.23	1.87
3A	—	—	3.81/20.32	12" PVC Leads	59065-030-ND•	5.92	5.01	4.19	57065-000-ND•	3.28	2.78	2.33
3B	—	—	3.81/20.32	12" PVC Leads	59070-030-ND	5.92	5.01	4.19	57070-000-ND	3.09	2.62	2.19
4	—	—	2.54/6.35	12" PVC Leads	59085-030-ND	9.56	8.09	6.77	—	—	—	—
7	28.57	19.05	8.89/29.21	12" Teflon Leads	59135-030-ND	8.65	7.32	6.12	57135-000-ND	3.64	3.08	2.58
6	23.01	14.00	4.44/20.32	12" PVC Leads	59140-030-ND•	5.69	4.82	4.03	57140-000-ND•	2.96	2.51	2.10
6	28.57	19.05	5.71/20.32	12" PVC Leads	59145-030-ND•	5.69	4.82	4.03	57145-000-ND•	2.73	2.31	1.94
7	28.57	19.05	5.71/20.32	12" PVC Leads	59150-030-ND•	5.69	4.82	4.03	57150-000-ND•	2.73	2.31	1.94
9	20.32	3.75	3.93/11.17	J-Lead SMT	59160-030-ND	4.55	3.85	3.22	57050-000-ND	3.19	2.70	2.26
					SPST-N/C							
1	25.4	6.22	3.81/20.32	12" PVC Leads	59025-040-ND	4.55	3.85	3.22	57025-000-ND	2.63	2.23	1.87
3A	—	—	3.81/20.32	12" PVC Leads	59065-040-ND	5.46	4.62	3.87	57065-000-ND	3.28	2.78	2.33
3B	—	—	3.81/20.32	12" PVC Leads	59070-040-ND	5.46	4.62	3.87	57070-000-ND	3.09	2.62	2.19
7	23.01	19.05	4.44/20.32	12" PVC Leads	59140-040-ND	5.23	4.43	3.71	57140-000-ND	2.96	2.51	2.10

• **HE1-KIT-ND** ***Digi-Key® Magnetic Switches Kit*** Assortment of switches denoted. (22 total pieces) Includes notebook style standard case **$69.95**

† **HE2-KIT-ND** ***Digi-Key® Magnetic Switches Kit*** One each of switches denoted. (18 total pieces) Includes notebook style standard case **$49.95**

RADIAL MAGNET INC

Magnets

Made from Neodymium Iron Boron (NdFeB), rare earth magnets. Neodymium Magnets are the most powerful permanent magnetic materials commercially available. Increasing the size of a magnet also increases magnetic strength.

The magnets are nickel plated.

Description	Gauss Strength	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Price Each 100
1" Dia. x 1/8" Thick	10,800	469-1000-ND	2.05	1.80	1.60	1.42
3/4" Dia. x 1/8" Thick	10,800	469-1001-ND	1.20	1.16	1.05	.96
1/2" Dia. x 1/8" Thick	10,800	469-1002-ND	.60	.54	.48	.46
1/4" Dia. x 1/4" Thick	10,800	469-1003-ND	.36	.34	.32	.30
1/4" Dia. x 1/8" Thick	10,800	469-1004-ND	.20	.19	.18	.16
1/4" Dia. x 1/16" Thick	10,800	469-1005-ND	.13	.12	.11	.10
1" x 2" x 1/8" Thick	10,800	469-1006-ND	4.80	4.50	4.14	3.84
1" x 2" x 1/4" Thick	10,800	469-1007-ND	7.95	7.20	6.75	5.56

SRC DEVICES

Reed Relays

SRC Devices offers a selection of molded SIP and DIP 14 Reed Relays to meet customer applications. The DSS4 was developed several years ago and continues to be the relay of choice for hook switch in modems and general purpose applications. Features: • High reliability switching • Long operating life (>1 billion operations) • Capable of switching up to 1000V • Automatic insertion design. The PRMA offers a variety of contacts and schematics to meet the needs of a wide range of applications. Some applications include: • Automatic test equipment • Process control • High-end security systems • Metering

Fig. 1

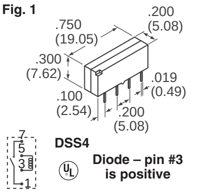

Fig. 2

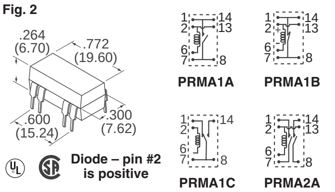

Fig.	Circuit	Coil Voltage (DC)	Coil Resistance	Switching Current (A)	Carry Current (A)	Digi-Key Part No.	Price Each 1	10	50	SRC Devices Part No.
1	SPST	5	500	0.5	2	420-1021-ND	3.12	2.64	2.21	DSS41A05
	SPST	5	500	0.5	2	420-1022-ND*	3.64	3.08	2.58	DSS41A05B
	SPST	12	1000	0.5	2	420-1023-ND	3.12	2.64	2.21	DSS41A12
	SPST	12	1000	0.5	2	420-1024-ND*	3.64	3.08	2.58	DSS41A12B
	SPST	24	2000	0.5	2	420-1025-ND	3.45	2.92	2.44	DSS41A24
	SPST	24	2000	0.5	2	420-1026-ND*	3.97	3.36	2.44	DSS41A24B
2	SPST	5	500	0.5	2	420-1008-ND	3.90	3.30	2.76	PRMA1A05
	SPST	5	500	0.5	2	420-1009-ND*	4.13	3.50	2.93	PRMA1A05B
	SPST	12	1000	0.5	2	420-1010-ND	3.90	3.30	2.76	PRMA1A12
	SPST	24	2150	0.5	2	420-1011-ND	4.23	3.58	2.99	PRMA1A24
	SPST N/C	5	500	0.5	2	420-1016-ND	5.56	4.71	3.94	PRMA1B05
	SPST N/C	12	1000	0.5	2	420-1017-ND	5.56	4.71	3.94	PRMA1B12
	SPST N/C	24	2150	0.5	2	420-1101-ND ***NEW!***	5.88	4.98	4.17	PRMA1B24
	SPDT O/C	5	200	0.25	0.4	420-1018-ND	7.88	6.82	5.84	PRMA1C05
	SPDT O/C	5	200	0.25	0.4	420-1019-ND*	8.50	7.36	6.30	PRMA1C05B
	SPDT O/C	12	500	0.25	0.4	420-1020-ND	7.88	6.82	5.84	PRMA1C12
	DPST	5	140	0.5	2	420-1012-ND	6.34	5.37	4.49	PRMA2A05
	DPST	5	140	0.5	2	420-1013-ND*	7.15	6.05	5.06	PRMA2A05B
	DPST	12	500	0.5	2	420-1014-ND	6.34	5.37	4.49	PRMA2A12
	DPST	24	2150	0.5	2	420-1015-ND	6.66	5.64	4.72	PRMA2A24
	SPDT	24	2150	0.25	0.4	420-1102-ND ***NEW!***	10.17	8.61	7.20	PRMA1C24

* With Diode

NEW! Ultra-Mini Reed Switches

SCR Devices Industry unique flat bladed, square reed switches. Ideally suited for small signal to moderate load switching tasks. With sputtered ruthenium contacts and laser-sealed glass, the FR series reed switch from SRC Devices is one of the most reliable reed switches available today. In addition, our square glass and flat leads allow for seamless integration into a high speed, automated assembly process via our standard SMT configuration. SRC Devices reed switches are the only reed switches fully SMT compatible by design, with or without overmolding. The magnetic force (expressed in NI, AT or Ampere Turns) required to cause the reed switch contacts to close is called the pull-in or operate AT.

Fig. 1

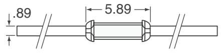

Fig. 2 — SMT

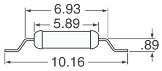

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Pricing 1	10	50	100	SRC Devices Part No.
Fig. 1 — Axial Lead OverMolded Switches											
SPST	10-15	5-30	175VDC/VAC	0.25A	0.5A	420-1035-ND	1.82	15.40	64.40	105.00	UM2S1015
SPST	10-20	5-30	175VDC/VAC	0.25A	0.5A	420-1036-ND	1.69	14.30	59.80	97.50	UM2S1020
SPST	10-30	5-30	175VDC/VAC	0.25A	0.5A	420-1037-ND	1.63	13.75	57.50	93.75	UM2S1030
SPST	15-20	5-30	175VDC/VAC	0.25A	0.5A	420-1038-ND	1.82	15.40	64.40	105.00	UM2S1520
SPST	15-25	5-30	175VDC/VAC	0.25A	0.5A	420-1039-ND	1.69	14.30	59.80	97.50	UM2S1525
SPST	20-25	5-30	175VDC/VAC	0.25A	0.5A	420-1040-ND	1.82	15.40	64.40	105.00	UM2S2025

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape & Reel Pricing* 3,000	SRC Devices Part No.
Fig. 2 — SMT OverMolded Reed Switches											
SPST	10-20	5-30	175VDC/VAC	0.25A	0.5A	420-1030-1-ND	1.85	16.53	66.98	741.00/M	UM2315
SPST	10-15	5-30	175VDC/VAC	0.25A	0.5A	420-1031-1-ND	1.98	17.69	71.68	793.00/M	UM2319
SPST	15-20	5-30	175VDC/VAC	0.25A	0.5A	420-1032-1-ND	1.98	17.69	71.68	793.00/M	UM2325
SPST	10-30	5-30	175VDC/VAC	0.25A	0.5A	420-1033-1-ND	1.79	15.95	64.63	715.00/M	UM2376
SPST	20-25	5-30	175VDC/VAC	0.25A	0.5A	420-1034-1-ND	1.98	17.69	71.68	793.00/M	UM2378

• Operate and Release values are given in Ampere-Turns. * For Tape & Reel part number, change 1-ND to 2-ND.

Magnetic Reed Switches

Reed switches have been used in thousands of applications from non-contact switches to sensing direction, speed and position. Reed switches are a reliable, low cost, low current switch that are hermitically sealed for operation in the most demanding environments. The magnetic force (expressed in NI, AT or Ampere Turns) required to cause the reed switch contacts to close is called the pull-in or operate AT.

Fig. 1

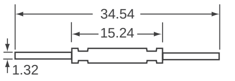

Fig. 2 — SMT

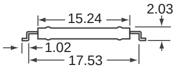

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Pricing 1	10	50	100	SRC Devices Part No.
Fig. 1 — Magnetic Reed Switches											
SPST	10-15	5-15	200VDC/VAC	0.5A	1.5A	420-1000-ND	1.50	12.65	52.90	86.25	FR2S1015-051500
SPST	10-20	5-20	200VDC/VAC	0.5A	1.5A	420-1001-ND	1.37	11.55	48.30	78.75	FR2S1020-052000
SPST	15-20	5-20	200VDC/VAC	0.5A	1.5A	420-1002-ND	1.50	12.65	52.90	86.25	FR2S1520-052000
SPST	15-25	5-20	200VDC/VAC	0.5A	1.5A	420-1003-ND	1.37	11.55	48.30	78.75	FR2S1525-0525
SPST	20-25	5-25	200VDC/VAC	0.5A	1.5A	420-1004-ND	1.50	12.65	52.90	86.25	FR2S2025-052500
SPST	20-30	5-30	200VDC/VAC	0.5A	1.5A	420-1005-ND	1.37	11.55	48.30	78.75	FR2S2030-053000

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape & Reel Pricing* 3,000	SRC Devices Part No.
Fig. 2 — SMT Reed Switches on Tape											
SPST	15-25	5-22	200VDC/VAC	0.5A	1.5A	420-1006-1-ND	1.53	13.63	55.23	611.00/M	FR2249
SPST	10-20	5-18	200VDC/VAC	0.5A	1.5A	420-1007-1-ND	1.53	13.63	55.23	611.00/M	FR2259
SPST	10-30	5-30	200VDC/VAC	0.5A	1.5A	420-1027-1-ND ***NEW!***	1.46	13.05	52.88	585.00/M	FR2282
SPST	10-15	5-30	200VDC/VAC	0.5A	1.5A	420-1104-1-ND ***NEW!***	1.66	14.79	59.93	663.00/M	FR2024
SPST	15-20	5-30	200VDC/VAC	0.5A	1.5A	420-1028-1-ND ***NEW!***	1.66	14.79	59.93	663.00/M	FR2025
SPST	20-25	5-30	200VDC/VAC	0.5A	1.5A	420-1029-1-ND ***NEW!***	1.66	14.79	59.93	663.00/M	FR2026

• Operate and Release values are given in Ampere-Turns. * For Tape & Reel part number, change 1-ND to 2-ND.

NEW! Over Molded Reed Switches

All the advantages of the non-molded DYAD®, plus the added strength of a low-stress plastic encapsulation. The SRC Devices Molded DYAD is designed for the harshest, most demanding applications. This plastic shell provides superior mechanical strength, eliminates concerns over handling glass switches, and provides an ideal solution for high speed, automated assembly environments. The magnetic force (expressed in NI, AT or Ampere Turns) required to cause the reed switch contacts to close is called the pull-in or operate AT.

Applications:

- **Security**
  - Proximity Sensing
  - Smoke Alarms
- **Automotive**
  - Level Sensor
  - Lamp Current Sensor

CM15

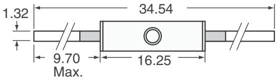

CM5

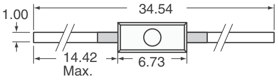

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Pricing 1	10	50	100	SRC Devices Part No.
Axial Lead OverMolded Switches											
SPST	10-15	5-30	200VDC/VAC	0.5A	1.5A	420-1047-ND	1.66	14.03	58.65	95.63	CM15S1015
SPST	10-20	5-30	200VDC/VAC	0.5A	1.5A	420-1048-ND	1.46	12.38	51.75	84.38	CM15S1020
SPST	10-30	5-30	200VDC/VAC	0.5A	1.5A	420-1049-ND	1.53	12.93	54.05	88.13	CM15S1030
SPST	15-20	5-30	200VDC/VAC	0.5A	1.5A	420-1050-ND	1.20	10.18	42.55	69.38	CM15S1520
SPST	15-25	5-30	200VDC/VAC	0.5A	1.5A	420-1051-ND	1.20	10.18	42.55	69.38	CM15S1525
SPST	20-25	5-30	200VDC/VAC	0.5A	1.5A	420-1052-ND	1.20	10.18	42.55	69.38	CM15S2025
SPST	10-15	5-30	175VDC/VAC	0.25A	0.5A	420-1059-ND	1.37	11.55	48.30	78.75	CM5S1015
SPST	10-20	5-30	175VDC/VAC	0.25A	0.5A	420-1060-ND	1.37	11.55	48.30	78.75	CM5S1020
SPST	10-30	5-30	175VDC/VAC	0.25A	0.5A	420-1061-ND	1.37	11.55	48.30	78.75	CM5S1030
SPST	15-20	5-30	175VDC/VAC	0.25A	0.5A	420-1062-ND	1.37	11.55	48.30	78.75	CM5S1520
SPST	15-25	5-30	175VDC/VAC	0.25A	0.5A	420-1063-ND	1.37	11.55	48.30	78.75	CM5S1525
SPST	20-25	5-30	175VDC/VAC	0.25A	0.5A	420-1064-ND	1.37	11.55	48.30	78.75	CM5S2025

Circuit	Operate AT• (min.-max.)	Release AT• (min.-max.)	Switching Volt. (max.)	Switching Current	Carry Current	Digi-Key Part No.	Cut Tape Pricing 1	10	50	Tape & Reel* Size	Pricing	SRC Devices Part No.
SMT OverMolded Reed Switches												
SPST	10-15	5-30	200VDC/VAC	0.5A	1.5A	420-1041-1-ND	1.98	17.69	71.68	2,000	885.00/M	CM15-2024
SPST	10-20	5-30	200VDC/VAC	0.5A	1.5A	420-1042-1-ND	1.85	16.53	66.98	1,000	827.00	CM15-2259
SPST	10-30	5-30	200VDC/VAC	0.5A	1.5A	420-1043-1-ND	1.79	15.95	64.63	2,000	798.00/M	CM15-2282
SPST	15-20	5-30	200VDC/VAC	0.5A	1.5A	420-1044-1-ND	1.98	17.69	71.68	2,000	885.00/M	CM15-2025
SPST	15-25	5-30	200VDC/VAC	0.5A	1.5A	420-1045-1-ND	1.85	16.53	66.98	2,000	827.00/M	CM15-2249
SPST	20-25	5-30	200VDC/VAC	0.5A	1.5A	420-1046-1-ND	1.98	17.69	71.68	2,000	885.00/M	CM15-2026
SPST	10-15	5-30	175VDC/VAC	0.25A	0.5A	420-1053-1-ND	1.43	12.76	51.70	2,000	627.00/M	CM5-2319
SPST	10-20	5-30	175VDC/VAC	0.25A	0.5A	420-1054-1-ND	1.43	12.76	51.70	2,000	627.00/M	CM5-2315
SPST	10-30	5-30	175VDC/VAC	0.25A	0.5A	420-1055-1-ND	1.43	12.76	51.70	2,000	627.00/M	CM5-2376
SPST	15-20	5-30	175VDC/VAC	0.25A	0.5A	420-1056-1-ND	1.43	12.76	51.70	2,000	627.00/M	CM5-2325
SPST	15-25	5-30	175VDC/VAC	0.25A	0.5A	420-1057-1-ND	1.43	12.76	51.70	2,000	627.00/M	CM5-2341
SPST	20-25	5-30	175VDC/VAC	0.25A	0.5A	420-1058-1-ND	1.43	12.76	51.70	2,000	627.00/M	CM5-2378

• Operate and Release values are given in Ampere-Turns. * For Tape & Reel part number, change 1-ND to 2-ND.

COTO TECHNOLOGY

Magnetic Reed Switches

Fig. 1	Fig. 2 – SMT, Gull Wing	Fig. 3 – SMT, J-Lead	Fig. 4
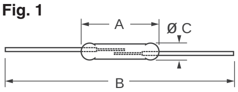	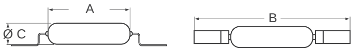	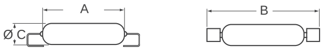	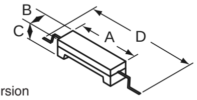 SMD Version

Fig.	Circuit	Ampere Turns	Max. DC Contact Rating Watts	Max. DC Contact Rating Volts	Switching Current (Amp)	Carry Current (Amp)	Operate/ Release (ms/µs)	Dimensions - Inches (mm) A	Dimensions - Inches (mm) B	Dimensions - Inches (mm) C	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Coto Part No.
1	SPST	14-23	10	200	0.5	1	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1168-ND	.65	.55	.46	RI-01BAA
	SPST	16-25	10	200	0.5	1	.35/50	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1169-ND	.65	.55	.46	RI-01CA
	SPST	7-21	10	200	0.5	0.5	.30/70	.394 (10)	1.811 (46)	.071 (1.8)	306-1170-ND	.98	.83	.69	RI-02A
	SPST	18-32	10	200	0.5	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1171-ND	.68	.58	.49	RI-03A
	SPST	16-25	10	200	0.5	1.75	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1172-ND	.68	.58	.49	RI-07AA
	SPST	15-28	30	200	1	2.25	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1187-ND ***NEW!***	.98	.83	.69	RI-08A
	SPST	18-32	10	200	0.5	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1188-ND ***NEW!***	.78	.66	.56	RI-21A
	SPST	18-32	10	200	0.5	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1087-ND	.75	.64	.53	RI-23A
	SPST	14-23	10	200	0.5	1.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1086-ND	.75	.64	.53	RI-23AA
	SPST	8-16	10	200	0.25	1	.10/70	.591 (15)	1.811 (46)	.1 (2.54)	306-1085-ND	.75	.64	.53	RI-23AAA
	SPST	28-52	10	200	0.5	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1088-ND	.75	.64	.53	RI-23B
	SPST	46-70	10	200	0.5	2.75	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1089-ND	.75	.64	.53	RI-23C
	SPST	18-32	15	200	1	2.5	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1092-ND	.78	.66	.56	RI-25A
	SPST	14-23	15	200	1	1.75	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1091-ND	.78	.66	.56	RI-25AA
	SPST	8-16	10	200	0.75	1.5	.25/70	.591 (15)	1.811 (46)	.1 (2.54)	306-1090-ND	.78	.66	.56	RI-25AAA
	SPST	28-52	25	200	1	2.75	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1093-ND	.78	.66	.56	RI-25B
	SPST	46-70	25	200	1	3	.25/30	.591 (15)	1.811 (46)	.1 (2.54)	306-1094-ND	.72	.61	.51	RI-25C
	SPST	20-34	10	200	0.5	1.75	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1082-ND	1.14	.97	.81	RI-27A
	SPST	16-25	10	200	0.5	1.75	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1081-ND	1.14	.97	.81	RI-27AA
	SPST	10-19	10	180	0.5	1.5	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1080-ND	1.14	.97	.81	RI-27AAA
	SPST	20-34	20	200	1	1.25	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1191-ND ***NEW!***	1.14	.97	.81	RI-29A
	SPST	16-25	15	200	1	1.25	.25/30	.531 (13.5)	1.811 (46)	.071 (1.8)	306-1083-ND	1.14	.97	.81	RI-29AA
	SPST	15-28	30	200	1	2.5	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1099-ND	1.11	.94	.79	RI-46A
	SPST	10-19	30	200	0.75	2	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1098-ND	1.11	.94	.79	RI-46AA
	SPST	24-51	40	200	1	3	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1100-ND	1.11	.94	.79	RI-46B
	SPST	46-70	40	200	1	3	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1101-ND	1.11	.94	.79	RI-46C
	SPST	15-28	70	200	1	1.75	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1102-ND	1.11	.94	.79	RI-48A
	SPST	24-51	70	200	1	2.25	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1103-ND	1.11	.94	.79	RI-48B
	SPST	46-70	70	200	1	2.25	.35/30	.807 (20.5)	2.157 (54.8)	.106 (2.7)	306-1104-ND	1.11	.94	.79	RI-48C
	SPST	10-15	10	200	0.5	0.5	.15/20	.394 (10)	1.811 (46)	.071 (1.8)	306-1121-ND	1.27	1.08	.90	RI60GP1015
	SPST	15-20	10	200	0.5	0.5	.15/20	.394 (10)	1.811 (46)	.071 (1.8)	306-1122-ND	1.11	.94	.79	RI60GP1520
	SPST	7-14	10	170	0.5	0.4	.15/35	.276 (7)	1.811 (46)	.071 (1.8)	306-1077-ND	1.46	1.24	1.04	RI-70CTA
	SPST	7-15	10	170	0.5	0.4	.15/35	.276 (7)	1.811 (46)	.071 (1.8)	306-1123-ND	1.46	1.24	1.04	RI70GP0715
	SPST	5-15	5	200*	0.35	0.5	.35/20	.19 (5)	1.81 (46)	.07 (1.8)	306-1144-ND	2.02	1.71	1.43	RI-80
	SPDT	10-30	5	175	0.4	0.5	1.0/1.0	.590 (15)	1.988 (50.5)	.1 (2.54)	306-1143-ND	3.19	2.70	2.26	RI-90

Fig.	Circuit	Ampere Turns	Max. DC Contact Rating Watts	Max. DC Contact Rating Volts	Switching Current (Amps)	Carry Current (Amps)	Operate/ Release (ms/µs)	Package	Dimensions - Inches (mm) A	Dimensions - Inches (mm) B	Dimensions - Inches (mm) C	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 50	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Price	Coto Part No.
2	SPST	5-15	5	175	0.35	0.5	.35/20	Gullwing	.196 (5)	.342 (8.7)	.07 (1.8)	306-1145-1-ND	2.21	1.87	1.57	306-1145-2-ND	7,000	884.00/M	RI-80SMD0515G1
2	SPST	5-15	5	175	0.35	0.5	.35/20	Gullwing	.196 (5)	.4 (10.16)	.07 (1.8)	306-1146-1-ND	2.21	1.87	1.57	306-1146-2-ND	7,000	884.00/M	RI-80SMD0515G2
2	SPST	9-15	10	200	0.5	0.5	.30/70	Gullwing	.394 (10)	.64 (16.25)	.069 (1.75)	306-1189-1-ND ***NEW!***	1.30	1.10	.92	306-1189-2-ND ***NEW!***	7,000	520.00/M	RI-02SMD-G1
2	SPS T	9-15	10	200	0.5	0.5	.30/70	Gullwing	.394 (10)	.768 (19.5)	.069 (1.75)	306-1190-1-ND ***NEW!***	1.30	1.10	.92	306-1190-2-ND ***NEW!***	7,000	520.00/M	RI-02SMD-G2
3	SPST	5-15	5	175	0.35	0.5	.35/20	J-lead	.196 (5)	.279 (7.1)	.07 (1.8)	306-1147-1-ND	2.54	2.15	1.80	306-1147-2-ND	7,000	1014.00/M	RI-80SMD0515J

Fig.	Circuit	Ampere Turns	Max. DC Contact Rating Watts	Max. DC Contact Rating Volts	Switching Current (Amps)	Carry Current (Amps)	Package	Dimensions - Inches (mm) A	Dimensions - Inches (mm) B	Dimensions - Inches (mm) C	Dimensions - Inches (mm) D	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 50	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Price	Coto Part No.
4	SPST	30-50	5	140	0.35	0.5	Gullwing	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1148-1-ND	3.71	3.14	2.63	306-1148-2-ND	2,000	1710.00/M	CT05-3050-G1
	SPST	15-35	5	140	0.35	0.5	Gullwing	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1149-1-ND	3.71	3.14	2.63	306-1149-2-ND	2,000	1710.00/M	CT05-1535-G1
	SPST	30-50	5	140	0.35	0.5	J-lead	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1150-1-ND	3.80	3.22	2.70	306-1150-2-ND	2,000	1755.00/M	CT05-3050-J1
	SPST	15-35	5	140	0.35	0.5	J-lead	.252 (6.4)	.091 (2.31)	.091 (2.31)	.376 (9.55)	306-1151-1-ND	3.80	3.22	2.70	306-1151-2-ND	2,000	1755.00/M	CT05-1535-J1
	SPST	15-30	10	200	0.5	0.5	Gullwing	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635 (16.13)	306-1125-1-ND	1.20	1.02	.86	306-1125-2-ND	2,000	442.00/M	CT10-1530-G1
	SPST	15-40	10	200	0.5	0.5	Gullwing	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635 (16.13)	306-1124-1-ND	1.20	1.02	.86	306-1124-2-ND	2,000	442.00/M	CT10-1540-G1
	SPST	25-40	10	200	0.5	0.5	Gullwing	.458 (11.63)	.095 (2.41)	.115 (2.92)	.635 (16.13)	306-1126-1-ND	1.95	1.65	1.38	306-1126-2-ND	2,000	442.00/M	CT10-2540-G1

Low Signal Relays

All Relays UL/CSA approved

G5V

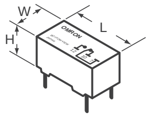

G6HK

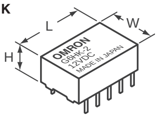

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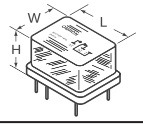

G5C

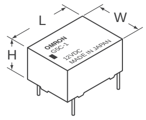

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Oper. Volt. (% of Rated) Pull/Drop/Max. On/Out/Cont.	Oper./Rel. Time/ Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
PC Mount Low Signal Relays													
1	SPDT†	3	60	1	0.5	80/10/200	5/5	10x12.5x7.5	Z2204-ND	2.33	2.10	1.86	G5V-1-DC3
		5	167	1	0.5	80/10/200	5/5	10x12.5x7.5	Z773-ND	2.33	2.10	1.86	G5V-1-DC5
		12	960	1	0.5	80/10/200	5/5	10x12.5x7.5	Z774-ND	2.33	2.10	1.86	G5V-1-DC12
		24	3840	1	0.5	80/10/200	5/5	10x12.5x7.5	Z775-ND	2.33	2.10	1.86	G5V-1-DC24
	DPDT	3	18	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z2185-ND	2.85	2.57	2.28	G5V-2-DC3
		5	50	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z767-ND	2.85	2.57	2.28	G5V-2-DC5
		12	288	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z768-ND	2.88	2.59	2.30	G5V-2-DC12
		24	1152	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z769-ND	2.88	2.59	2.30	G5V-2-DC24
		48	4000	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z2255-ND	2.69	2.43	2.16	G5V-2-DC48
		5	70	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z770-ND	3.08	2.77	2.46	G5V-2-H-DC5
		12	400	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z771-ND	3.08	2.77	2.46	G5V-2-H-DC12
		24	1600	2	0.5	75/5/120	7/3	11.5x20.5x10.1	Z772-ND	3.08	2.77	2.46	G5V-2-H-DC24
		3	60	2	0.5	75/5/150	7/3	11.5x20.5x10.1	Z2203-ND	3.18	2.86	2.54	G5V-2-H1-DC3
		5	166.7	2	0.5	75/5/150	7/3	11.5x20.5x10.1	Z108-ND	3.18	2.86	2.54	G5V-2-H1-DC5
		12	960	2	0.5	75/5/150	7/3	11.5x20.5x10.1	Z109-ND	3.18	2.86	2.54	G5V-2-H1-DC12
		24	2880	2	0.5	75/5/150	7/3	11.5x20.5x10.1	Z110-ND	3.18	2.86	2.54	G5V-2-H1-DC24
2	DPDT*	5	125	1	0.6	70/10/150	5/5	8.4x20.3x10.1	Z105-ND	4.68	4.21	3.74	G6A234PSTUSDC5BYOMZ
		12	720	1	0.6	70/10/150	5/5	8.4x20.3x10.1	Z106-ND	4.68	4.21	3.74	G6A234PSTUSDC12BYOMZ
		24	2880	1	0.6	70/10/150	5/5	8.4x20.3x10.1	Z107-ND	4.68	4.21	3.74	G6A-234P-ST-US-DC24
		3	45	2	0.5	70/10/150	5/3	8.4x20.3x10.1	Z122-ND	4.58	4.12	3.66	G6A274PSTUSDC3BYOMZ
		5	125	2	0.5	70/10/150	5/3	8.4x20.3x10.1	Z123-ND	4.58	4.12	3.66	G6A274PSTUSDC5BYOMZ
		12	720	2	0.5	70/10/150	5/3	8.4x20.3x10.1	Z124-ND	4.58	4.12	3.66	G6A274PSTUSDC12BYOMZ
		24	2880	2	0.5	70/10/150	5/3	8.4x20.3x10.1	Z125-ND	4.58	4.12	3.66	G6A274PSTUSDC24BYOMZ
		24	1440	2	0.5	70/10/150	5/3	8.4x20.3x10.1	Z2246-ND	4.58	4.12	3.66	G6A-274P-ST40-US-DC24
		48	9750	2	0.5	75/5/150	5/3	8.4x20.3x10.1	Z2256-ND	4.58	4.12	3.66	G6A-274P-ST-US-DC48
3	DPDT	5	125	1	0.5	70/10/150	5/5	7.9x16.0x9.9	Z706-ND	4.00	3.60	3.20	G5A-237P-DC5
		12	720	1	0.5	70/10/150	5/5	7.9x16.0x9.9	Z707-ND	4.00	3.60	3.20	G5A-237P-DC12
		24	2880	1	0.5	70/10/150	5/5	7.9x16.0x9.9	Z708-ND	4.13	3.72	3.30	G5A-237P-DC24
		5	125	1	0.5	70/10/150	5/5	8.0x16.0x9.9	Z942-ND	4.33	3.90	3.46	G5A-234P-DC5
		12	720	1	0.5	70/10/150	5/5	8.0x16.0x9.9	Z943-ND	4.33	3.90	3.46	G5A-234P-DC12
		24	2880	1	0.5	70/10/150	5/5	8.0x16.0x9.9	Z944-ND	4.33	3.90	3.46	G5A-234P-DC24
4	SPDT	5	63	3	0.6	70/10/190	5/5	8.0x16.0x9.9	Z761-ND	4.25	3.83	3.40	G6E-134P-L-ST-US-DC5
		12	360	3	0.6	70/10/190	5/5	8.0x16.0x9.9	Z762-ND	3.85	3.47	3.08	G6E-134P-L-ST-US-DC12
		24	1440	3	0.6	70/10/190	5/5	8.0x16.0x9.9	Z763-ND	3.85	3.47	3.08	G6E-134P-L-ST-US-DC24
	SPDT*	5	125	3	0.2	70/10/190	5/5	7.9x16.0x9.9	Z830-ND	4.03	3.63	3.22	G6E-134P-ST-US-DC5
		12	720	3	0.2	70/10/190	5/5	7.9x16.0x9.9	Z831-ND	4.03	3.63	3.22	G6E-134P-ST-US-DC12
		24	2880	3	0.2	70/10/190	5/5	7.9x16.0x9.9	Z832-ND	4.03	3.63	3.22	G6E-134P-ST-US-DC24
5	4PDT*	5	69	1	0.3	70/10/150	7/5	8.4x35.4x10.1	Z940-ND	10.10	9.09	8.08	G6A-434P-STUS-DC5
		5	69	1	0.3	70/10/150	7/5	8.4x35.4x10.1	Z2257-ND	8.05	7.25	6.44	G6A-474P-ST-US-DC5
		12	400	1	0.3	70/10/150	7/5	8.4x35.4x10.1	Z206-ND	10.10	9.09	8.08	G6A-434P-ST-US-DC12
		24	1600	1	0.3	70/10/150	7/5	8.4x35.4x10.1	Z941-ND	10.10	9.09	8.08	G6A-434P-STUS-DC24
PC Mount Low Signal Relays — Latching Type													
6	DPDT*	5	139	1	0.3	70/70/200	5/5	8.4x20.2x10.1	Z749-ND	5.85	5.27	4.68	G6AK-234P-ST-US-DC5
		12	800	1	0.3	70/70/200	5/5	8.4x20.2x10.1	Z750-ND	4.68	4.21	3.74	G6AK-234P-ST-US-DC12
		24	3200	1	0.3	70/70/200	5/5	8.4x20.2x10.1	Z751-ND	5.85	5.27	4.68	G6AK-234P-ST-US-DC24
—	SPDT†*	5	125	2	0.4	70/70/190	5/5	7.9x16.0x9.9	Z833-ND	5.20	4.68	4.16	G6EK-134P-ST-US-DC5
		12	720	2	0.4	70/70/190	5/5	7.9x16.0x9.9	Z834-ND	5.20	4.68	4.16	G6EK-134P-ST-US-DC12
		24	2880	2	0.4	70/70/190	5/5	7.9x16.0x9.9	Z835-ND	5.40	4.86	4.32	G6EK-134P-ST-US-DC24
7	DPDT†	5	125	1	0.5	75/75/190	3/2	5.0x14.0x9	Z965-ND	4.85	4.37	3.88	G6HK-2-DC5
		12	720	1	0.5	75/75/190	3/2	5.0x14.0x9	Z966-ND	4.85	4.37	3.88	G6HK-2-DC12
		24	1920	1	0.5	75/75/190	3/2	5.0x14.0x9	Z967-ND	5.23	4.71	4.18	G6HK-2-DC24
High Sensitivity Power Relays (Low Power Consumption)													
8	SPST-NO†	5	125	5	5	70/10/130	10/10	9.9x20.1x9.9	Z945-ND	4.13	3.72	3.30	G6B-1114P-US-DC5
		5	125	8	8	70/10/130	10/10	12.44x20.0x9.9	Z712-ND	4.95	4.46	3.96	G6B-1174P-US-DC5
		6	180	5	5	70/10/130	10/10	9.9x20.1x9.9	Z752-ND	4.13	3.72	3.30	G6B-1114P-US-DC6
		12	720	5	5	70/10/130	10/10	9.9x20.1x9.9	Z753-ND	4.13	3.72	3.30	G6B-1114P-US-DC12
		12	720	8	8	70/10/130	10/10	12.44x20.0x9.9	Z713-ND	4.95	4.46	3.96	G6B-1174P-US-DC12
		24	2880	5	5	70/10/130	10/10	9.9x20.1x9.9	Z754-ND	4.25	3.83	3.40	G6B-1114P-US-DC24
		24	2880	8	8	70/10/130	10/10	12.44x20.0x9.9	Z714-ND	5.13	4.62	4.10	G6B-1174P-US-DC24
9	SPST-NO†	5	125	10	10	70/10/130	10/10	10.2x20.0x15.0	Z715-ND	4.98	4.48	3.98	G6C-1114P-US-DC5
		12	720	10	10	70/10/130	10/10	10.2x20.0x15.0	Z716-ND	4.98	4.48	3.98	G6C-1114P-US-DC12
		24	2880	10	10	70/10/130	10/10	10.2x20.0x15.0	Z948-ND	5.13	4.62	4.10	G6C-1114P-US-DC24
10	SPST-NO/NC	5	125	8	8	70/10/130	10/10	9.9x20.0x15.0	Z949-ND	5.73	5.16	4.58	G6C-2114P-US-DC5
		12	720	8	8	70/10/130	10/10	9.9x20.0x15.0	Z950-ND	5.73	5.16	4.58	G6C-2114P-US-DC12
		24	2880	8	8	70/10/130	10/10	9.9x20.0x15.0	Z951-ND	5.90	5.31	4.72	G6C-2114P-US-DC24
—	PC Mount Relay Socket for G6C Series							15x23x10.79	Z126-ND	1.90	1.71	1.52	P6C-06P
11	SPST-NO*	12	720	10	15	75/10/110	10/10	11x22x16	Z779-ND	3.43	3.09	2.74	G5CE-1-DC12
	SPST-NO†	5	125	10	10	75/10/150	10/10	11x22x16	Z2155-ND	3.70	3.33	2.96	G5CA-1A4-DC5
		12	720	10	10	75/10/150	10/10	11x22x16	Z2156-ND	3.70	3.33	2.96	G5CA-1A4-DC12
		24	2880	10	10	75/10/150	10/10	11x22x16	Z2157-ND	3.70	3.33	2.96	G5CA-1A4-DC24
	SPST-NO	5	125	10	10	75/10/150	10/10	11x22x16	Z2158-ND	3.43	3.09	2.74	G5CA-1A-DC5
		12	720	10	10	75/10/150	10/10	11x22x16	Z2159-ND	3.43	3.09	2.74	G5CA-1A-DC12
		24	2880	10	10	75/10/150	10/10	11x22x16	Z2160-ND	3.55	3.20	2.84	G5CA-1A-DC24
		5	125	10	15	75/10/150	10/10	11x22x16	Z2161-ND	4.43	3.99	3.55	G5CA-1A-E-DC5
		12	720	10	15	75/10/150	10/10	11x22x16	Z2162-ND	3.75	3.38	3.00	G5CA-1A-E-DC12
		24	2880	10	15	75/10/150	10/10	11x22x16	Z2163-ND	3.75	3.38	3.00	G5CA-1A-E-DC24
—	SPST-NO	12	720	10	15	75/10/150	10/10	11x22.1x25.1	Z2164-ND	5.05	4.55	4.04	G5CA-1A-TP-E-DC12
		24	2880	10	15	75/10/150	10/10	11x22.1x25.1	Z2165-ND	5.05	4.55	4.04	G5CA-1A-TP-E-DC24

† Sealed case * Meets FCC Part 68 standards § ***RoHS Compliant***

(Continued)

Mounting Hole Pattern and Connection Diagram
“Bottom view unless otherwise noted”

Fig. 1 — G5V

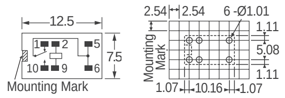

G5V-1 Shown

Fig. 2 — G6A Pin #1 is Positive

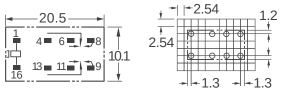

Fig. 3 — G5A

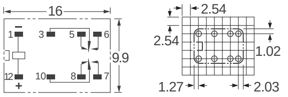

Fig. 4 — G6E

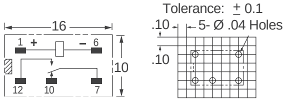

Fig. 5 — G6A

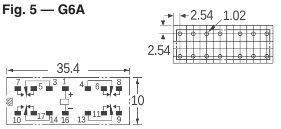

Fig. 6 — G6AK

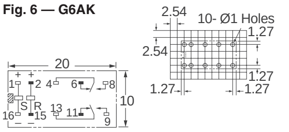

Fig. 7 — G6HK

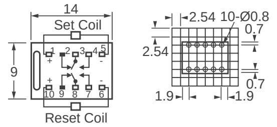

Fig. 8 — G6B

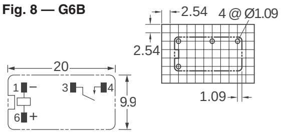

Fig. 9 — G6C

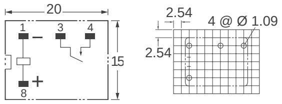

Fig. 10 — G6C

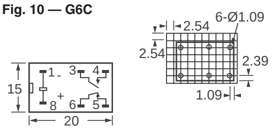

Fig. 11 — G5CA

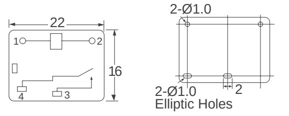

All Relays UL/CSA approved

G6D

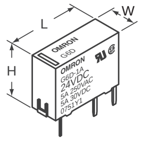

G5Q

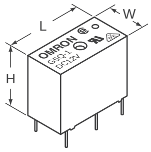

G6M

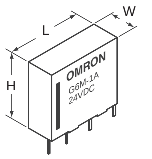

G6JU-2P

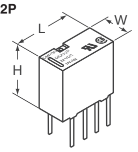

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Oper. Volt. (% of Rated) Pull/Drop/Max. On/Out/Cont.	Oper./Rel. Time/Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
12	SPST-NO	5	83	5	5	80/10/110	10/10	9.9x20.1x9.9	Z946-ND	5.05	4.55	4.04	G6B-2114P-US-DC5
	SPST-NC†*	6	120	5	5	80/10/110	10/10	9.9x20.1x9.9	Z755-ND	5.05	4.55	4.04	G6B-2114P-US-DC6
	SPST-NO/NC	12	480	5	5	80/10/110	10/10	9.9x20.1x9.9	Z756-ND	5.05	4.55	4.04	G6B-2114P-US-DC12
	SPST-NO/NC†*	24	1920	5	5	80/10/110	10/10	9.9x20.1x9.9	Z757-ND	5.28	4.75	4.22	G6B-2114P-US-DC24
	DPST-NO	5	83	5	5	80/10/110	10/10	9.9x20.1x9.9	Z947-ND	5.05	4.55	4.04	G6B-2214P-US-DC5
		6	120	5	5	80/10/110	10/10	9.9x20.1x9.9	Z758-ND	5.05	4.55	4.04	G6B-2214P-US-DC6
		12	480	5	5	80/10/110	10/10	9.9x20.1x9.9	Z759-ND	5.05	4.55	4.04	G6B-2214P-US-DC12
		24	1920	5	5	80/10/110	10/10	9.9x20.1x9.9	Z760-ND	5.28	4.75	4.22	G6B-2214P-US-DC24
—	PC Mount Relay Socket for G6B Series SPST..........							10.16x23x9.9	Z993-ND	1.50	1.35	1.20	P6B-04P
—	PC Mount Relay Socket for G6B Series DPST..........							10.16x23x9.9	Z994-ND	1.93	1.74	1.54	P6B-26P
—	SPST-NO†	5	125	5	5	70/10/130	10/5	12.5x17.5x6.5	Z2243-ND§	3.50	3.15	2.80	G6D-1A-ASI-DC5
		12	720	5	5	70/10/130	10/5	12.5x17.5x6.5	Z2242-ND§	3.50	3.15	2.80	G6D-1A-ASI-DC12
		24	2880	5	5	70/10/130	10/5	12.5x17.5x6.5	Z2244-ND§	3.50	3.15	2.80	G6D-1A-ASI-DC24
—	PC Mount Relay Socket for G6D Series SPST-NO							10.8x19.7x6.9	Z1684-ND	2.78	2.51	2.23	P6D-04P
13	SPST-NO	5	139	5	5	70/5/160	10/5	12.5x20.3x5.08	Z2317-ND	4.75	4.28	3.80	G6DS-1A-DC5
		5	208	5	5	70/5/160	10/5	12.5x20.3x5.08	Z2320-ND	4.96	4.47	3.97	G6DS-1A-H-DC5
		12	800	5	5	70/5/160	10/5	12.5x20.3x5.08	Z2318-ND	4.75	4.28	3.80	G6DS-1A-DC12
		12	1200	5	5	70/5/160	10/5	12.5x20.3x5.08	Z2321-ND	4.89	4.40	3.91	G6DS-1A-H-DC12
		24	3200	5	5	70/5/160	10/5	12.5x20.3x5.08	Z2319-ND	5.18	4.67	4.15	G6DS-1A-DC24
		24	4800	5	5	70/5/160	10/5	12.5x20.3x5.08	Z2322-ND	5.32	4.80	4.26	G6DS-1A-H-DC24
—	SPST-NO	5	125	3	3	75/10/180	10/10	12.5x17.5x6.5	Z1674-ND	2.18	1.96	1.74	G5NB-1A-DC5
		12	720	3	3	75/10/180	10/10	12.5x17.5x6.5	Z1675-ND	2.18	1.96	1.74	G5NB-1A-DC12
		24	2880	3	3	75/10/180	10/10	12.5x17.5x6.5	Z1676-ND	2.18	1.96	1.74	G5NB-1A-DC24
14	SPST	12	720	5	10	75/5/190	10/5	15.8x20.3x10.3	Z219-ND	2.15	1.94	1.72	G5Q-1A-DC12
		24	2880	5	10	75/5/190	10/5	15.8x20.3x10.3	Z220-ND	2.15	1.94	1.72	G5Q-1A-DC24
	SPDT	12	360	5	10	75/5/190	10/5	15.8x20.3x10.3	Z221-ND	2.25	2.03	1.80	G5Q-1-DC12
		24	1440	5	10	75/5/190	10/5	15.8x20.3x10.3	Z222-ND	2.25	2.03	1.80	G5Q-1-DC24
	SPST†	12	720	5	10	75/5/190	10/5	15.8x20.3x10.3	Z223-ND	2.30	2.07	1.84	G5Q-1A4-DC12
		24	2880	5	10	75/5/190	10/5	15.8x20.3x10.3	Z224-ND	2.30	2.07	1.84	G5Q-1A4-DC24
	SPDT†	12	360	5	10	75/5/190	10/5	15.8x20.3x10.3	Z225-ND	2.40	2.16	1.92	G5Q-14-DC12
		24	2880	5	10	75/5/190	10/5	15.8x20.3x10.3	Z226-ND	2.40	2.16	1.92	G5Q-14-DC24
15	SPDT†	5	63	5	5	75/5/110	10/5	15.5x20x10	Z1640-ND	1.45	1.31	1.17	G5SB-14-DC5
		9	202	5	5	75/5/110	10/5	15.5x20x10	Z1641-ND	1.45	1.31	1.17	G5SB-14-DC9
		12	360	5	5	75/5/110	10/5	15.5x20x10	Z1642-ND	1.45	1.31	1.17	G5SB-14-DC12
		24	1440	5	5	75/5/110	10/5	15.5x20x10	Z1643-ND	1.56	1.40	1.25	G5SB-14-DC24
Ultracompact — TELECOM (Thru-hole)													
16	DPDT	4.5	137.9	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2131-ND	4.10	3.69	3.28	G6J-2P-Y-DC4.5
		5	173.1	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2132-ND	4.10	3.69	3.28	G6J-2P-Y-DC5
		12	976.8	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2133-ND	4.10	3.69	3.28	G6J-2P-Y-DC12
		24	2600.5	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2134-ND	4.10	3.69	3.28	G6J-2P-Y-DC24
17	DPDT	4.5	194	1	0.3	75/5/200	3/3	5x10x6.5	Z115-ND	4.30	3.87	3.44	G6K-2P-DC4.5
		5	237	1	0.3	75/5/200	3/3	5x10x6.5	Z116-ND	3.80	3.42	3.04	G6K-2P-DC5
		12	1407	1	0.3	75/5/200	3/3	5x10x6.5	Z117-ND	3.80	3.42	3.04	G6K-2P-DC12
		24	5220	1	0.3	75/5/200	3/3	5x10x6.5	Z118-ND	4.30	3.87	3.44	G6K-2P-DC24
		4.5	194	1	0.3	75/5/200	3/3	5x10x6.5	Z131-ND	3.70	3.33	2.96	G6K-2P-Y-DC4.5
		5	237	1	0.3	75/5/200	3/3	5x10x6.5	Z132-ND	3.70	3.33	2.96	G6K-2P-Y-DC5
		12	1407	1	0.3	75/5/200	3/3	5x10x6.5	Z133-ND	3.70	3.33	2.96	G6K-2P-Y-DC12
		24	5220	1	0.3	75/5/200	3/3	5x10x6.5	Z134-ND	3.70	3.33	2.96	G6K-2P-Y-DC24
18	SPST	12	1200	3	3A@250VAC	70/10/160	10/5	17.5x20x5	Z2042-ND	4.50	4.05	3.60	G6M-1A-DC12
		24	4800	3	3A@250VAC	70/10/160	10/5	17.5x20x5	Z2043-ND	4.85	4.37	3.88	G6M-1A-DC24
		5	208	3	3A@250VAC	70/10/160	10/5	17.5x20x5	Z2044-ND	4.50	4.05	3.60	G6M-1A-DC5
19	DPDT*	5	178	1	0.5	75/10/170	2/1	5x14x9	Z740-ND	4.00	3.60	3.20	G6H-2-DC5
		12	1028	1	0.5	75/10/170	2/1	5x14x9	Z741-ND	4.00	3.60	3.20	G6H-2-DC12
		24	2880	1	0.5	75/10/170	2/1	5x14x9	Z742-ND	5.03	4.53	4.02	G6H-2-DC24
20	SPST	3	50	1	0.3	75/10/150	5/5	4.0x10.6x7	Z1226-ND	1.75	1.58	1.40	G6L-1P-DC3
		4.5	112.5	1	0.3	75/10/150	5/5	4.0x10.6x7	Z1227-ND	1.75	1.58	1.40	G6L-1P-DC4.5
		5	139	1	0.3	75/10/150	5/5	4.0x10.6x7	Z1228-ND	1.75	1.58	1.40	G6L-1P-DC5
		12	800	1	0.3	75/10/150	5/5	4.0x10.6x7	Z1229-ND	1.75	1.58	1.40	G6L-1P-DC12
		24	2504	1	0.3	75/10/130	5/5	4.0x10.6x7	Z2041-ND	2.05	1.85	1.64	G6L-1P-DC24
Ultracompact — TELECOM Latching													
16	DPDT	24	3672	1	0.3	75/75/150	3/3	9x10.3x4.8	Z1206-ND	4.20	3.78	3.36	G6JU-2P-DC24
		4.5	204.3	1	0.3	75/75/150	3/3	9x10.6x5.7	Z2143-ND	4.20	3.78	3.36	G6JU-2P-Y-DC4.5
		5	245.5	1	0.3	75/75/150	3/3	9x10.6x5.7	Z2144-ND	4.20	3.78	3.36	G6JU-2P-Y-DC5
		12	1329.2	1	0.3	75/75/150	3/3	9x10.6x5.7	Z2145-ND	4.20	3.78	3.36	G6JU-2P-Y-DC12
		24	2600	1	0.3	75/75/150	3/3	9x10.6x5.7	Z2146-ND	4.80	4.32	3.84	G6JU-2P-Y-DC24
		4.5	204.3	1	0.3	75/75/150	3/3	10x10.6x5.7	Z2147-ND	4.20	3.78	3.36	G6JU-2FL-Y-DC4.5
		5	245.5	1	0.3	75/75/150	3/3	10x10.6x5.7	Z2148-ND	4.20	3.78	3.36	G6JU-2FL-Y-DC5
		12	1329.2	1	0.3	75/75/150	3/3	10x10.6x5.7	Z2149-ND	4.20	3.78	3.36	G6JU-2FL-Y-DC12
		24	2600	1	0.3	75/75/150	3/3	10x10.6x5.7	Z2150-ND	4.80	4.32	3.84	G6JU-2FL-Y-DC24
		24	4430	1	0.3	75/75/150	3/3	10x10.3x4.8	Z1214-ND	4.20	3.78	3.36	G6JU-2FL-DC24
		4.5	204.3	1	0.3	75/75/150	3/3	10x10.6x5.7	Z2151-ND	4.20	3.78	3.36	G6JU-2FS-Y-DC4.5
		5	245.5	1	0.3	75/75/150	3/3	10x10.6x5.7	Z2152-ND	4.20	3.78	3.36	G6JU-2FS-Y-DC5

† Sealed case * Meets FCC Part 68 standards § ***RoHS Compliant***

(Continued)

Mounting Hole Pattern and Connection Diagram
"Bottom view unless otherwise noted"

Fig. 12 — G6B

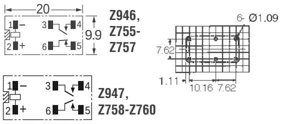

Fig. 13 — G6DS

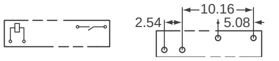

Fig. 14 — G5Q

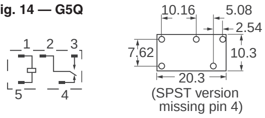

Fig. 15 — G5SB

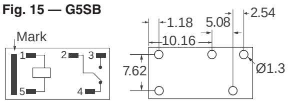

Fig. 16

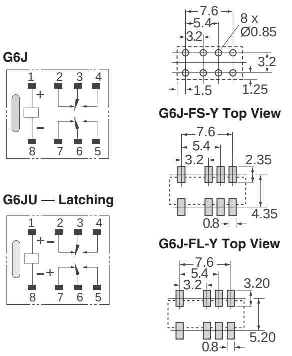

Fig. 17

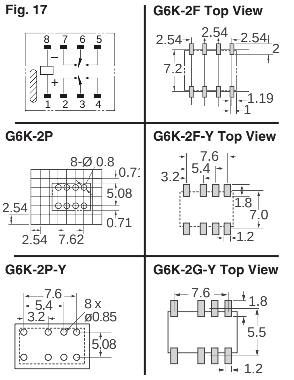

Fig. 18 — G6M

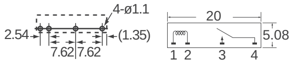

Fig. 19 — G6H

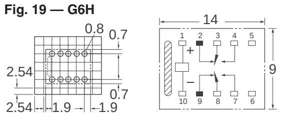

Fig. 20 — G6L

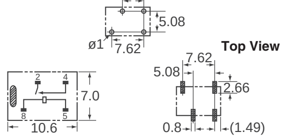

G6K

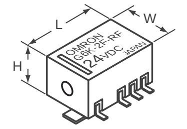

G6L

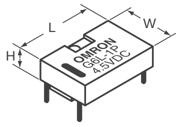

G6H

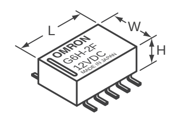

G6W

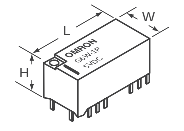

G6K-RF

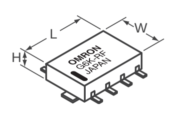

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Ratings Resistive (A) 24 VDC	Contact Ratings Resistive (A) 115 VAC	Oper. Volt. (% of Rated) Pull/Drop/Max. On/Out/Cont.	Oper./Rel. Time/ Time (msec.)	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Omron Part No.
16	DPDT	12	1329.2	1	0.3	75/75/150	3/3	10x10.6x5.7	Z2153-ND	4.20	3.78	3.36	G6JU-2FS-Y-DC12
		24	2600	1	0.3	75/75/150	3/3	10x10.6x5.7	Z2154-ND	4.80	4.32	3.84	G6JU-2FS-Y-DC24
		4.5	207.4	1	0.3	75/75/150	3/3	10x10.3x4.8	Z1219-ND	4.20	3.78	3.36	G6JU-2FS-DC4.5
		12	1309	1	0.3	75/75/150	3/3	10x10.3x4.8	Z1221-ND	4.20	3.78	3.36	G6JU-2FS-DC12
		24	3672	1	0.3	75/75/150	3/3	10x10.3x4.8	Z1222-ND	4.20	3.78	3.36	G6JU-2FS-DC24
Ultracompact — TELECOM (SMT)													
16	DPDT	4.5	137.9	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2135-ND	4.10	3.69	3.28	G6J-2FS-Y-DC4.5
		5	173.1	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2136-ND	4.10	3.69	3.28	G6J-2FS-Y-DC5
		12	976.8	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2137-ND	4.10	3.69	3.28	G6J-2FS-Y-DC12
		24	2600.5	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2138-ND	4.10	3.69	3.28	G6J-2FS-Y-DC24
		4.5	137.9	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2139-ND	4.10	3.69	3.28	G6J-2FL-Y-DC4.5
		5	173.1	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2140-ND	4.10	3.69	3.28	G6J-2FL-Y-DC5
		12	976.8	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2141-ND	4.10	3.69	3.28	G6J-2FL-Y-DC12
		24	2600.5	1	0.3	75/10/150	3/3	9x10.6x5.7	Z2142-ND	4.10	3.69	3.28	G6J-2FL-Y-DC24
17	DPDT	3	91	1	0.3	75/5/200	3/3	5x10x6.5	Z2186-ND	3.80	3.42	3.04	G6K-2F-DC3
		4.5	194	1	0.3	75/5/200	3/3	5x10x6.5	Z111-ND	3.80	3.42	3.04	G6K-2F-DC4.5
		5	237	1	0.3	75/5/200	3/3	5x10x6.5	Z112-ND	3.80	3.42	3.04	G6K-2F-DC5
		12	1407	1	0.3	75/5/200	3/3	5x10x6.5	Z113-ND	3.80	3.42	3.04	G6K-2F-DC12
		24	5220	1	0.3	75/5/200	3/3	5x10x6.5	Z114-ND	4.10	3.69	3.28	G6K-2F-DC24
		3	91	1	0.3	75/5/200	3/3	5x10x6.5	Z2354-ND	4.10	3.69	3.28	G6K-2F-Y-DC3
		4.5	194	1	0.3	75/5/200	3/3	5x10x6.5	Z127-ND	3.70	3.33	2.96	G6K-2F-Y-DC4.5
		5	237	1	0.3	75/5/200	3/3	5x10x6.5	Z128-ND	3.70	3.33	2.96	G6K-2F-Y-DC5
		12	1407	1	0.3	75/5/200	3/3	5x10x6.5	Z129-ND	3.70	3.33	2.96	G6K-2F-Y-DC12
		24	5220	1	0.3	75/5/200	3/3	5x10x6.5	Z130-ND	3.70	3.33	2.96	G6K-2F-Y-DC24
		4.5	194	1	0.3	75/5/200	3/3	5x10x6.5	Z135-ND	3.70	3.33	2.96	G6K-2G-Y-DC4.5
		5	237	1	0.3	75/5/200	3/3	5x10x6.5	Z136-ND	3.70	3.33	2.96	G6K-2G-Y-DC5
		12	1407	1	0.3	75/5/200	3/3	5x10x6.5	Z137-ND	3.70	3.33	2.96	G6K-2G-Y-DC12
		24	5220	1	0.3	75/5/200	3/3	5x10x6.5	Z138-ND	3.70	3.33	2.96	G6K-2G-Y-DC24
20	SPST	3	62.5	1	0.3	75/10/150	5/5	4.0x10.6x7	Z1230-ND	1.75	1.58	1.40	G6L-1F-DC3
		4.5	140.4	1	0.3	75/10/150	5/5	4.0x10.6x7	Z1231-ND	1.75	1.58	1.40	G6L-1F-DC4.5
		5	171.1	1	0.3	75/10/150	5/5	4.0x10.6x7	Z1232-ND	1.75	1.58	1.40	G6L-1F-DC5
		12	979.8	1	0.3	75/10/150	5/5	4.0x10.6x7	Z1233-ND	1.75	1.58	1.40	G6L-1F-DC12
		24	2504	1	0.3	75/10/150	5/5	4.0x10.6x7	Z2040-ND	2.26	2.03	1.81	G6L-1F-DC24
21	DPDT	5	178	1	0.5	75/10/120	3/2	5.2x14x9	Z827-ND	5.93	5.34	4.74	G6H-2F-DC5
		12	1028	1	0.5	75/10/120	3/2	5.2x14x9	Z828-ND	5.93	5.34	4.74	G6H-2F-DC12
		24	2880	1	0.5	75/10/120	3/2	5.2x14x9	Z829-ND	6.73	6.06	5.38	G6H-2F-DC24
22	DPDT	3	64.3	2@30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z2187-ND	4.48	4.03	3.58	G6S2FDC3BYOMR
		5	178	2@30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z888-ND	4.48	4.03	3.58	G6S2FDC5BYOMR
		12	1028	2@30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z889-ND	4.48	4.03	3.58	G6S2FDC12BYOMR
		24	2880	2@30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z890-ND	5.10	4.59	4.08	G6S2FDC24BYOMR
		5	178	2@30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z891-ND	4.48	4.03	3.58	G6S2GDC5BYOMR
		12	1028	2@30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z892-ND	4.48	4.03	3.58	G6S2GDC12BYOMR
		24	2880	2@30VAC	0.5	75/10/200	4/4	7.3x14.8x9.2	Z893-ND	5.10	4.59	4.08	G6S2GDC24BYOMR
High Frequency — Isolation of 68dB (Typical), 900MHz or 2GHZ													
23	SPDT†*	5	83	.01@24AC/DC		75/10/130	10/5	10x20.5x11.5	Z723-ND	6.15	5.68	5.33	G5Y-1-DC5
		24	1920	.01@24AC/DC		75/10/130	10/5	9x20.5x11.5	Z725-ND	7.18	6.63	6.22	G5Y-1-DC24
High Frequency — 900MHz, 1GHz, 2.5GHz, or 2.6GHz													
24	SPDT	5	125	.01@30AC/DC		75/10/150	10/5	9.2x20x11.7	Z119-ND	4.20	3.78	3.36	G6Y-1-DC5
		12	720	.01@30AC/DC		75/10/150	10/5	9.2x20x11.7	Z120-ND	4.20	3.78	3.36	G6Y-1-DC12
		24	2880	.01@30AC/DC		75/10/150	10/5	9.2x20x11.7	Z121-ND	4.20	3.78	3.36	G6Y-1-DC24
25	SPDT	5	125	.01@30VAC/VDC		3.75/.5/7.5	10/10	8.9x20x8.6	Z1601-ND	5.44	4.90	4.36	G6Z-1PE-DC5
		12	720.4	.01@30VAC/VDC		9/1.2/18	10/10	8.9x20x8.6	Z1602-ND	5.69	5.12	4.55	G6Z-1PE-DC12
		24	2880.1	.01@30VAC/VDC		18/2.4/36	10/10	8.9x20x8.6	Z1603-ND	5.69	5.12	4.55	G6Z-1PE-DC24
26	SPDT	5	125	.01@30VAC/VDC		3.75/.5/7.5	10/10	8.9x20x8.6	Z1598-ND	5.69	5.12	4.55	G6Z-1P-DC5
		12	720.4	.01@30VAC/VDC		9/1.2/18	10/10	8.9x20x8.6	Z1599-ND	5.69	5.12	4.55	G6Z-1P-DC12
		24	2880.1	.01@30VAC/VDC		18/2.4/36	10/10	8.9x20x8.6	Z1600-ND	5.94	5.35	4.75	G6Z-1P-DC24
27	SPDT	5	125	.01@30VAC/VDC		3.75/.5/7.5	10/10	9.3x20x8.6	Z1607-ND	5.94	5.35	4.75	G6Z-1FE-DC5
		12	720.4	.01@30VAC/VDC		9/1.2/18	10/10	9.3 x20x8.6	Z1608-ND	6.19	5.57	4.95	G6Z-1FE-DC12
		24	2880.1	.01@30VAC/VDC		18/2.4/36	10/10	9.3 x20x8.6	Z1609-ND	5.26	4.74	4.22	G6Z-1FE-DC24
28	SPDT	5	125	.01@30VAC/VDC		3.75/.5/7.5	10/10	9.3 x20x8.6	Z1604-ND	5.69	5.12	4.55	G6Z-1F-DC5
		12	720.4	.01@30VAC/VDC		9/1.2/18	10/10	9.3 x20x8.6	Z1605-ND	5.47	4.93	4.38	G6Z-1F-DC12
		24	2880.1	.01@30VAC/VDC		18/2.4/36	10/10	9.3 x20x8.6	Z1606-ND	6.43	5.79	5.15	G6Z-1F-DC24
29	SPDT	4.5	101	.01@30AC/DC		80/10/150	10/10	9.2x20x9.4	Z2047-ND	112.50	101.25	90.00	G6W-1F-DC4.5
		12	720	.01@30AC/DC		80/10/150	10/10	9.2x20x9.4	Z2045-ND	112.50	101.25	90.00	G6W-1F-DC12
		24	2880	.01@30AC/DC		80/10/150	10/10	9.2x20x9.4	Z2046-ND	112.50	101.25	90.00	G6W-1F-DC24
30	SPDT	4.5	101	.01@30AC/DC		80/10/150	10/10	8.9x20x9.4	Z2050-ND	112.50	101.25	90.00	G6W-1P-DC4.5
		12	720	.01@30AC/DC		80/10/150	10/10	8.9x20x9.4	Z2048-ND	112.50	101.25	90.00	G6W-1P-DC12
		24	2880	.01@30AC/DC		80/10/150	10/10	8.9x20x9.4	Z2049-ND	112.50	101.25	90.00	G6W-1P-DC24
31	DPDT	3	91	1	0.3	80/10/150	3/3	5.4x10.3x6.9	Z2035-ND	25.30	22.77	20.24	G6K-2F-RF-DC3
		4.5	194	1	0.3	80/10/150	3/3	5.4x10.3x6.9	Z2036-ND	25.30	22.77	20.24	G6K-2F-RF-DC4.5
		5	237	1	0.3	80/10/150	3/3	5.4x10.3x6.9	Z2037-ND	25.30	22.77	20.24	G6K-2F-RF-DC5
		6	341	1	0.3	80/10/150	3/3	5.4x10.3x6.9	Z2038-ND	25.30	22.77	20.24	G6K-2F-RF-DC6
		9	795	1	0.3	80/10/150	3/3	5.4x10.3x6.9	Z2039-ND	25.30	22.77	20.24	G6K-2F-RF-DC9
		12	1315	1	0.3	80/10/150	3/3	5.4x10.3x6.9	Z2033-ND	25.30	22.77	20.24	G6K-2F-RF-DC12
		24	5220	1	0.3	80/10/150	3/3	5.4x10.3x6.9	Z2034-ND	25.30	22.77	20.24	G6K-2F-RF-DC24

† Sealed case * Meets FCC Part 68 standards § ***RoHS Compliant***

Fig. 21 — G6H Surface Mount

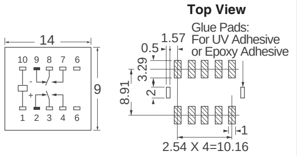

Fig. 22 — G6S Surface Mount

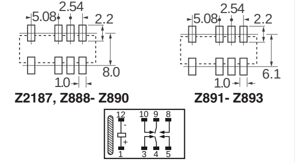

Fig. 23 — G5Y HF

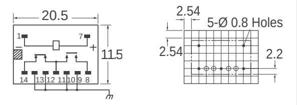

Fig. 24 — G6Y HF

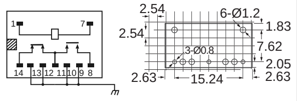

Fig. 25 — G6Z HF

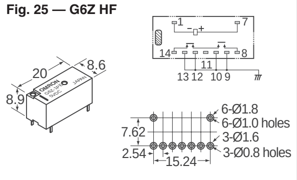

Fig. 26 — G6Z HF

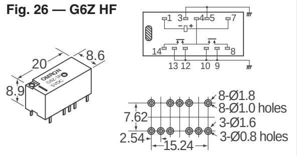

Fig. 27 — G6Z HF Surface Mount

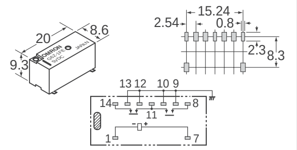

Fig. 28 — G6Z

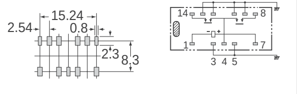

Fig. 29 — G6W-1F

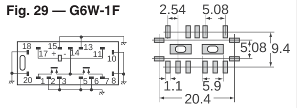

Fig. 30 — G6W-1P

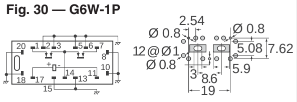

Fig. 31 — G6K-2F-RF

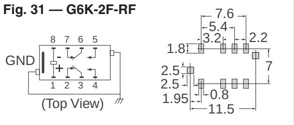

Compare the Technological Advantages of Omron's HF Relays

Competing Technology	Competing Technology Advantages	Omron Advantages	Omron HF Relay
Metal can coaxial RF relays	• Small size • 2-Form-C contacts	• SMT • Reverse contact and Y terminal versions • Better performance at 4GHz	G6Z
GaAs FETs	Solid state: • Greater number of operations • Faster operating speed • Smaller	• 10W power switching • Better insertion and return loss • Less distortion at higher frequencies • More cost-effective technology	G6Z, G6W
GaAs MMIC switches	Solid state: • Greater number of operations • Faster operating speed • Smaller	• 10W power switching • Better insertion and return loss • Less distortion at higher frequencies • More cost-effective technology	G6W
PIN diode arrays	Solid state: • Greater number of operations • Faster operating speed	• Superior HF characteristics • Much broader bandwidth	G6Z, G6W
Other electromechanical RF relays	—	• Superior HF characteristics • Much broader bandwidth	G6K-RF, G6Z, G6W

Advantages of Microstrip Line Construction

- Maintains signal integrity from PCB strip line to the relay compared to coaxial types
- Reduces transmission loss
- Provides superior impedance matching
- Assures high isolation to eliminate cross-talk
- Reduced attenuation
- Lower insertion loss

HF Relay:
Only 0.0001% signal is transmitted.

Conventional Relay:
1% signal is transmitted even when contact is opened.

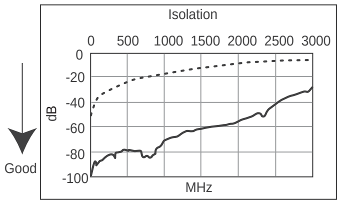

HF Relay:
G6Z: 9% signal is lost.
G6W: only 3% signal is lost.

Conventional Relay:
50% signal is lost.

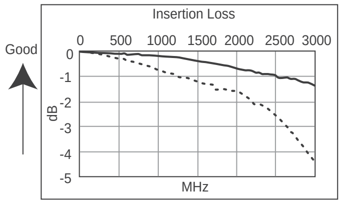

Maximum Design Flexibility

Terminal arrangement options:

- Y terminal types
- E terminal types
- Reverse terminal types for both Y and E versions

Y Terminal Type / Reverse Y Terminal Type

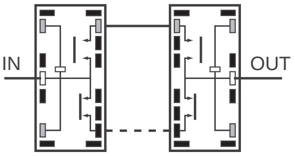

E Terminal Type

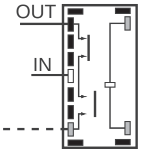

Reverse E Terminal Type

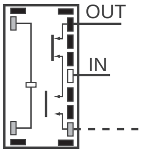

G6Z — 1 Form C Relays

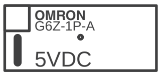

Actual Size

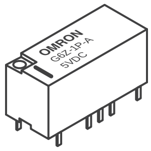

Key Features / Specifications	• Widest variety of configurations • Up to 2.6GHz • Isolation: 60-65dB (900MHz) • Insertion loss: 0.1-0.2dB (900MHz) • VSWR: 1.5 maximum to 1.2 maximum
Options	• PCB or SMT Gullwing • E and Y terminal arrangements • Reverse terminal types also available • Latching and non-latching versions • 50Ω and 75Ω impedance models

G6W — 1 Form C Relays

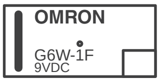

Actual Size

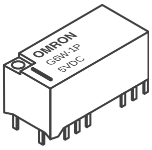

Key Features / Specifications	• High-performance design; up to 8GHz • Isolation: 65dB (2.0GHz) • Insertion loss: 0.2dB (2.5GHz) • VSWR: 1.2 maximum @ 2.5GHz • Impedance: 50Ω • Compact size: 20 x 9.4 x 8.9mm
Options	• PCB or SMT Gullwing • E and Y terminal arrangements • Reverse terminal types also available • Latching and non-latching models

G6K-RF — 2 Form C Relays

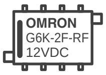

Actual Size

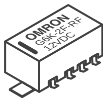

Key Features / Specifications	• Small size • 2 pole switching • Only 100mW coil power • Surface mount • Up to 1GHz • Isolation: 30dB minimum (1GHz) • Insertion loss: 0.2dB maximum (1GHz) • VSWR: 1.2 maximum @ 1GHz • Impedance: 50Ω
Options	• Latching and non-latching models

OMRON Power PCB Relays

All Relays UL/CSA approved

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Rtg's. Resistive (A) 24 VDC	Contact Rtg's. Resistive (A) 115 VAC	Additional Features	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
PCB Mount Power Relays with QC Terminals													
1	SPST-NO	12	160	20	20	—	23.5 x 30.5 x 16	Z952-ND	5.78	5.20	4.62	4.16	G4A-1A-E-DC12
2	SPDT	24VAC	260	15	15	QC Terminal	29 x 50 x 29	Z958-ND	9.33	8.40	7.46	6.72	G4B-112T1CUS-AC24
		120VAC	6500	15	15		29 x 50 x 29	Z959-ND	9.20	8.28	7.36	6.63	G4B-112T1CUS-AC120
	SPST-NO	120VAC	6500	15	15	QC Terminal	29 x 50 x 29	Z198-ND	8.75	7.88	7.00	6.30	G4B-112TUS-AC120
3	SPDT	6	69	10	5	Standard Plug-In	29 x 35.5 x 13	Z2224-ND	4.83	4.35	3.86	3.48	G2R-1-S-DC6(S)
		12	275	10	5		29 x 35.5 x 13	Z1632-ND	5.94	5.35	4.75	4.28	G2R-1-S-DC12S
		24	1100	10	5		29 x 35.5 x 13	Z1633-ND	5.05	4.55	4.05	3.64	G2R-1-S-DC24S
		48	4220	10	5		29 x 35.5 x 13	Z2230-ND	5.40	4.86	4.32	3.89	G2R-1-S-DC48(S)
		24VAC	260	10	5		29 x 35.5 x 13	Z1634-ND	7.90	7.11	6.32	5.69	G2R-1-S-AC24S
		120VAC	6500	10	5	Standard Plug-In	29 x 35.5 x 13	Z1635-ND	8.66	7.80	6.93	6.24	G2R-1-S-AC120S
		240VAC	30.3K	10	5		29 x 35.5 x 13	Z2227-ND	12.75	11.48	10.20	9.18	G2R-1-S-AC240(S)
		6	69	10	5	Plug-In with LED Indicator	29 x 35.5 x 13	Z2233-ND	8.68	7.81	6.94	6.25	G2R-1-SN-DC6(S)
		12	275	10	5		29 x 35.5 x 13	Z2232-ND	8.68	7.81	6.94	6.25	G2R-1-SN-DC12(S)
		24	1113	10	5		29 x 35.5 x 13	Z2234-ND	8.68	7.81	6.94	6.25	G2R-1-SN-DC24(S)
		24VAC	253	10	5		29 x 35.5 x 13	Z2235-ND	8.88	7.99	7.10	6.39	G2R-1-SN-AC24(S)
		120VAC	7286	10	5		29 x 35.5 x 13	Z2236-ND	11.43	10.29	9.14	8.23	G2R-1-SN-AC120(S)
	DPDT	6	69	5	5	Standard Plug-In	25.5 x 35.5 x 13	Z2225-ND	5.65	5.09	4.52	4.07	G2R-2-S-DC6(S)
		12	275	5	5		28 x 35.5 x 13	Z1636-ND	6.79	6.12	5.44	4.89	G2R-2-S-DC12S
		24	1100	5	5		28 x 35.5 x 13	Z1637-ND	6.79	6.12	5.44	4.89	G2R-2-S-DC24S
		48	4220	5	5		25.5 x 35.5 x 13	Z2231-ND	6.18	5.56	4.94	4.45	G2R-2-S-DC48(S)
		24VAC	260	5	5		28 x 35.5 x 13	Z1638-ND	7.15	6.44	5.72	5.15	G2R-2-S-AC24S
		120VAC	6500	5	5	Standard Plug-In	28 x 35.5 x 13	Z1639-ND	9.47	8.53	7.58	6.82	G2R-2-S-AC120S
		240VAC	30.3K	5	5		25.5 x 35.5 x 13	Z2229-ND	12.75	11.48	10.20	9.18	G2R-2-S-AC240(S)
		6	69	5	5	Plug-In with LED Indicator	25.5 x 35.5 x 13	Z2238-ND	11.05	9.95	8.84	7.96	G2R-2-SN-DC6(S)
		12	278	5	5		25.5 x 35.5 x 13	Z2237-ND	11.33	10.20	9.06	8.16	G2R-2-SN-DC12(S)
		24	1113	5	5		25.5 x 35.5 x 13	Z2239-ND	10.30	9.27	8.24	7.42	G2R-2-SN-DC24(S)
		24VAC	253	5	5		25.5 x 35.5 x 13	Z2240-ND	10.93	9.84	8.74	7.87	G2R-2-SN-AC24(S)
		120VAC	7286	5	5		25.5 x 35.5 x 13	Z2241-ND	11.73	10.56	9.38	8.45	G2R-2-SN-AC120(S)
—	Track Mounted Socket, Screw Term for G2R-1-S Series						—	Z2285-ND	9.12	8.21	7.30	6.57	P2RF-05
	Track Mounted Socket "Fingersafe" Screw Term for G2R-1-S Series						—	Z855-ND	3.65	3.29	2.92	2.63	P2RF-05-E
	Track Mounted Socket, Screw Term for G2R-2-S Series						—	Z2286-ND	10.23	9.21	8.19	7.37	P2RF-08
	Track Mounted Socket "Fingersafe" Screw Term for G2R-2-S Series						—	Z207-ND	6.03	5.43	4.82	4.34	P2RF-08-E
	PC Mount Relay Socket for G2R-1-S Series						—	Z995-ND	2.05	1.85	1.64	1.48	P2R-05P
	Back Connecting Solder Socket for G2R-1-S Series						—	Z2283-ND	2.64	2.38	2.12	1.90	P2R-05A
	Back Connecting Solder Socket for G2R-2-S Series						—	Z2284-ND	2.64	2.38	2.12	1.90	P2R-08A
	Hold Down Clip for use with the G2R-1-S and G2R-2-S Series						—	Z2287-ND	1.13	1.02	.91	.82	PFC-A1
	Production Screwless Socket (Wire Trap Style) for G2R-1-S						—	Z2058-ND	4.20	3.78	3.36	3.03	PTRF-05-S
	Production Screwless Socket (Wire Trap Style) for G2R-2-S						—	Z2059-ND	6.60	5.94	5.28	4.76	PTRF-08-S
PCB Mount Power Relays													
4	SPST-NO	5	47	10	10	Standard G2R Sealed	25.5 x 29 x 13	Z2323-ND	3.63	3.27	2.90	2.61	G2R-1A4-DC5
		12	360	10	10		25.5 x 29 x 13	Z2324-ND	3.63	3.27	2.90	2.61	G2R-1A4-DC12
		24	1440	10	10		25.5 x 29 x 13	Z2325-ND	3.63	3.27	2.90	2.61	G2R-1A4-DC24
		48	5358	10	10		25.5 x 29 x 13	Z2326-ND	3.63	3.27	2.90	2.61	G2R-1A4-DC48
		120VAC	6500	10	10		25.5 x 29 x 13	Z2327-ND	6.68	6.01	5.34	4.81	G2R-1A4-AC120
	SPST-NO	5	62.5	12	12	Low Profile G2R	16 x 29 x 13	Z139-ND	2.70	2.43	2.16	1.95	G2RL-1A-DC5
		12	360	12	12		16 x 29 x 13	Z140-ND	2.70	2.43	2.16	1.95	G2RL-1A-DC12
		24	1440	12	12		16 x 29 x 13	Z141-ND	2.70	2.43	2.16	1.95	G2RL-1A-DC24
	SPDT	5	47	10	10	Standard G2R Sealed	25.5 x 29 x 13	Z743-ND	3.40	3.06	2.72	2.45	G2R-14-DC5
		12	275	10	10		25.5 x 29 x 13	Z744-ND	3.38	3.04	2.70	2.43	G2R-14-DC12
		24	1100	10	10		25.5 x 29 x 13	Z745-ND	3.38	3.04	2.70	2.43	G2R-14-DC24
		24VAC	260	10	10		25.5 x 29 x 13	Z843-ND	5.73	5.16	4.58	4.13	G2R-14-AC24
		120VAC	6500	10	10		25.5 x 29 x 13	Z844-ND	6.30	5.67	5.04	4.54	G2R-14-AC120
	SPDT	5	62.5	12	12	Low Profile G2R	16 x 29 x 13	Z142-ND	3.40	3.06	2.72	2.45	G2RL-14-DC5
		12	360	12	12		16 x 29 x 13	Z143-ND	3.40	3.06	2.72	2.45	G2RL-14-DC12
		24	1440	12	12		16 x 29 x 13	Z144-ND	3.40	3.06	2.72	2.45	G2RL-14-DC24
		48	5358	12	12		16 x 29 x 13	Z145-ND	3.78	3.40	3.02	2.72	G2RL-14-DC48

Mounting Hole Pattern and Connection Diagram
"Bottom view unless otherwise noted"

Fig. 1 - G4A

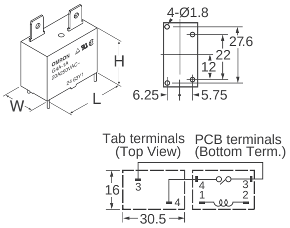

Fig. 2 - G4B

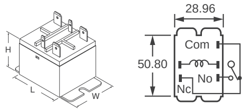

Fig. 3 - G2R-S

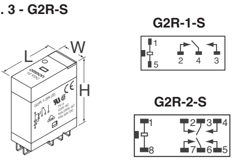

Fig. 4 - G2R-1

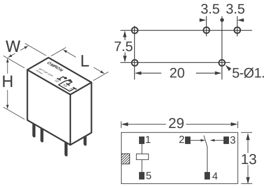

Pin #2 missing on G2R-1A

G2RL-14 Shown

Fig. 5 - G2R-2

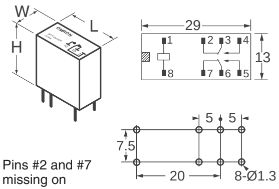

Pins #2 and #7 missing on G2R-1A-E

Fig. 6 - G2R-1A-E

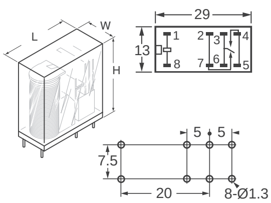

Fig. 7 - G5RL

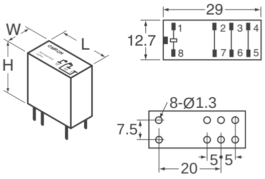

(Continued)

Power PCB Relays *(Cont.)*

All Relays UL/CSA approved

Fig.	Contact Form	Coil Volt. (VDC)	Coil Res. (Ω)	Contact Rtg's. Resistive (A) 24 VDC	115 VAC	Additional Features	Dimensions (mm) H x L x W	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
5	DPDT	5	62.5	8	8	Low Profile G2R	16 x 29 x 13	Z146-ND	4.03	3.63	3.22	2.90	G2RL-24-DC5
		12	360	8	8		16 x 29 x 13	Z147-ND	4.03	3.63	3.22	2.90	G2RL-24-DC12
		24	1440	8	8		16 x 29 x 13	Z148-ND	4.03	3.63	3.22	2.90	G2RL-24-DC24
		48	5358	8	8		16 x 29 x 13	Z149-ND	4.38	3.94	3.50	3.15	G2RL-24-DC48
	DPDT	5	47	5	5	Standard G2R Sealed	25.5 x 29 x 13	Z746-ND	4.28	3.85	3.42	3.08	G2R-24-DC5
		12	275	5	5		25.5 x 29 x 13	Z747-ND	3.93	3.54	3.14	2.83	G2R-24-DC12
		24	1100	5	5		25.5 x 29 x 13	Z748-ND	3.93	3.54	3.14	2.83	G2R-24-DC24
		24VAC	260	5	5		25.5 x 29 x 13	Z845-ND	6.55	5.90	5.24	4.72	G2R-24-AC24
		120VAC	6500	5	5		25.5 x 29 x 13	Z846-ND	7.15	6.44	5.72	5.15	G2R-24-AC120
6	SPST-NO	5	47	16	16	High Capacity G2R Unsealed	25.5 x 29 x 13	Z2306-ND	3.43	3.09	2.74	2.47	G2R-1A-E-DC5
		12	360	16	16		25.5 x 29 x 13	Z2307-ND	3.43	3.09	2.74	2.47	G2R-1A-E-DC12
		24	1440	16	16		25.5 x 29 x 13	Z2308-ND	3.43	3.09	2.74	2.47	G2R-1A-E-DC24
		48	5358	16	16		25.5 x 29 x 13	Z2309-ND	4.70	4.23	3.76	3.39	G2R-1A-E-DC48
		120VAC	6500	16	16		25.5 x 29 x 13	Z2310-ND	6.68	6.01	5.34	4.81	G2R-1A-E-AC120
	SPDT	5	47	16	16	High Capacity G2R Unsealed	25.5 x 29 x 13	Z847-ND	3.48	3.13	2.78	2.51	G2R-1-E-DC5
		12	275	16	16		25.5 x 29 x 13	Z848-ND	3.48	3.13	2.78	2.51	G2R-1-E-DC12
		24	1100	16	16		25.5 x 29 x 13	Z849-ND	3.48	3.13	2.78	2.51	G2R-1-E-DC24
	DPDT	12	360	10	10	Latching Relay	25.5 x 29 x 13	Z2328-ND	7.83	7.05	6.26	5.64	G2RK-2-DC12
		24	1440	10	10		25.5 x 29x 13	Z2329-ND	7.83	7.05	6.26	5.64	G2RK-2-DC24
7	SPDT	24VAC	443	16	16	High Capacity G2R	15.7 x 29 x 12.7	Z2313-ND	5.31	4.79	4.25	3.83	G5RL-1-E-AC24
		120VAC	11.5K	16	16		15.7 x 29 x 12.7	Z2312-ND	6.48	5.83	5.18	4.67	G5RL-1-E-AC115/120
		240VAC	47.6K	16	16		15.7 x 29 x 12.7	Z2311-ND	10.58	9.52	8.46	7.62	G5RL-1-E-AC230/240
8	SPST-NO	12	160	20	20	—	23.5 x 30.5 x 16	Z954-ND	6.18	5.56	4.94	4.45	G4A-1A-P-E-DC12
		24	640	20	20	—	23.5 x 30.5 x 16	Z955-ND	6.18	5.56	4.94	4.45	G4A-1A-P-E-DC24
9	SPST-NO	12	180	15	15	Fully Sealed	30.5 x 30.5 x 19.5	Z961-ND	5.43	4.89	4.34	3.91	G4W1114PUSTV8HPDC12
		24	720	15	15		30.5 x 30.5 x 19.5	Z962-ND	5.43	4.89	4.34	3.91	G4W1114PUSTV8HPDC24
10	DPST-NO	12	180	15	15	Fully Sealed	30.5 x 30.5 x 19.5	Z963-ND	6.45	5.81	5.16	4.65	G4W-2214PUSHP-DC12
		24	720	15	15	Fully Sealed	30.5 x 30.5 x 19.5	Z964-ND	6.45	5.81	5.16	4.65	G4W-2214PUSHP-DC24
		24	720	15	15	TV5 Rated	30.5 x 30.5 x 19.5	Z2245-ND	6.23	5.61	4.99	4.49	G4W-2212P-US-TV5-HP-DC24
11	SPST-NO	5	72	8	10	Low Profile G5LE Sealed	15.2 x 19.6 x 15.6	Z2340-ND	1.98	1.79	1.59	1.43	G5LB-1A4-DC5
		9	40.8	8	10		15.2 x 19.6 x 15.6	Z2341-ND	1.98	1.79	1.59	1.43	G5LB-1A4-DC9
		12	360	8	10		15.2 x 19.6 x 15.6	Z2342-ND	1.98	1.79	1.59	1.43	G5LB-1A4-DC12
		24	15.2	8	10		15.2 x 19.6 x 15.6	Z2343-ND	1.93	1.74	1.55	1.40	G5LB-1A4-DC24
		48	7.6	8	10		15.2 x 19.6 x 15.6	Z2344-ND	3.09	2.79	2.48	2.23	G5LB-1A4-DC48
	SPDT	5	72	8	10	Low Profile G5LE Sealed	15.2 x 19.6 x 15.6	Z2335-ND	1.93	1.74	1.55	1.40	G5LB-14-DC5
		9	40.8	8	10		15.2 x 19.6 x 15.6	Z2336-ND	1.98	1.79	1.59	1.43	G5LB-14-DC9
		12	360	8	10		15.2 x 19.6 x 15.6	Z2337-ND	1.93	1.74	1.55	1.40	G5LB-14-DC12
		24	15.2	8	10		15.2 x 19.6 x 15.6	Z2338-ND	1.93	1.74	1.55	1.40	G5LB-14-DC24
		48	7.6	8	10		15.2 x 19.6 x 15.6	Z2339-ND	2.85	2.57	2.29	2.06	G5LB-14-DC48
	SPDT	5	72	8	10	Low Profile G5LE Semi Sealed	15.2 x 19.6 x 15.6	Z2330-ND	1.93	1.74	1.55	1.39	G5LB-1-DC5
		9	40.8	8	10		15.2 x 19.6 x 15.6	Z2331-ND	1.97	1.78	1.58	1.42	G5LB-1-DC9
		12	360	8	10		15.2 x 19.6 x 15.6	Z2332-ND	1.93	1.74	1.55	1.39	G5LB-1-DC12
		24	15	8	10		15.2 x 19.6 x 15.6	Z2333-ND	1.93	1.74	1.55	1.39	G5LB-1-DC24
		48	8	8	10		15.2 x 19.6 x 15.6	Z2334-ND	3.09	2.78	2.47	2.23	G5LB-1-DC48
	SPST-NO	12	360	8	10	Fully Sealed	19.0 x 22.5 x 16.5	Z2352-ND	1.97	1.78	1.58	1.42	G5LE-1A4-DC12
		24	1440	8	10		19.0 x 22.5 x 16.5	Z2354-ND	4.10	3.69	3.28	2.95	G5LE-1A4-DC24
	SPDT	5	63	8	10	Fully Sealed	19.0 x 22.5 x 16.5	Z1011-ND	1.88	1.69	1.50	1.35	G5LE-14-DC5
		12	360	8	10		19.0 x 22.5 x 16.5	Z1012-ND	1.88	1.69	1.50	1.35	G5LE-14-DC12
		24	1440	8	10		19.0 x 22.5 x 16.5	Z1013-ND	1.88	1.69	1.50	1.35	G5LE-14-DC24
	SPDT	5	63	8	10	Semi Sealed	19.0 x 22.5 x 16.5	Z1014-ND	1.70	1.53	1.36	1.23	G5LE-1-DC5
		12	360	8	10		19.0 x 22.5 x 16.5	Z1015-ND	1.70	1.53	1.36	1.23	G5LE-1-DC12
		24	1440	8	10		19.0 x 22.5 x 16.5	Z1016-ND	1.70	1.53	1.36	1.23	G5LE-1-DC24
12	SPST-NO	5	44	5	8	Fully Sealed	15 x 28.5 x 10	Z2345-ND	2.53	2.28	2.02	1.82	G6RN-1A-DC5
		12	18.3	5	8		15 x 28.5 x 10	Z2346-ND	2.53	2.28	2.02	1.82	G6RN-1A-DC12
		24	9.2	5	8		15 x 28.5 x 10	Z2347-ND	2.53	2.28	2.02	1.82	G6RN-1A-DC24
	SPDT	5	114	5	8	Fully Sealed	15 x 28.5 x 10	Z987-ND	2.35	2.12	1.88	1.70	G6RN-1-DC5
		12	665	5	8		15 x 28.5 x 10	Z988-ND	2.35	2.12	1.88	1.70	G6RN-1-DC12
		24	2620	5	8		15 x 28.5 x 10	Z990-ND	2.35	2.12	1.88	1.70	G6RN-1-DC24
13	SPST-NO	24	8.3	3	3	Standard Sensitivity	14 x 22 x 11.5	Z2351-ND	2.74	2.47	2.19	1.98	G5B-1-DC24
		12	30	3	3	High Sensitivity	14 x 22 x 11.5	Z2348-ND	2.74	2.47	2.19	1.98	G5B-1-H-DC12
		24	15	3	3		14 x 22 x 11.5	Z2349-ND	2.95	2.66	2.36	2.13	G5B-1-H-DC24

Mounting Hole Pattern and Connection Diagram
"Bottom view unless otherwise noted"

Fig. 8 - G4A

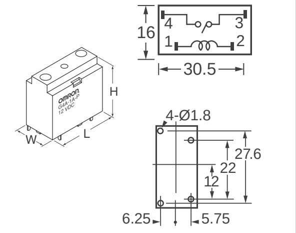

Fig. 9 - G4W

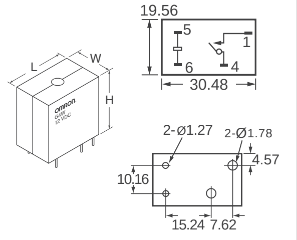

Fig. 10 - G4W

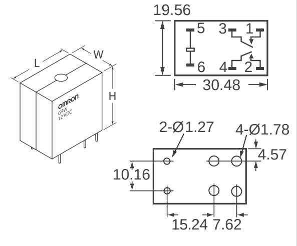

Fig. 11 - G5LE / G5LB

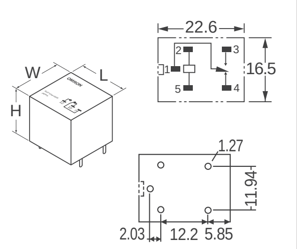

Fig. 12 - G6RN

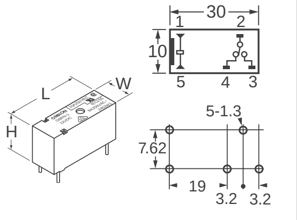

Pin #4 missing on G6RN-1A

G6RN-1 Shown

Fig. 13 - G5B

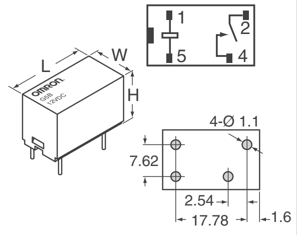

OMRON

Power Relays

Fig.	Contact Form	Coil Volt.	Coil Res. (Ω)	Contact Ratings Resistive (A)	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
LY Power Relays — Plug-In Terminals											
1	SPDT	12VDC	160	15A @ 110VAC 15A @ 24VDC	Plug-In	Z785-ND	6.45	5.81	5.16	4.65	LY1-DC12
		24VDC	650		Plug-In	Z784-ND	6.45	5.81	5.16	4.65	LY1-DC24
		24VAC	180		Plug-In	Z783-ND	6.75	6.08	5.40	4.86	LY1-AC24
		120VAC	4430		Plug-In	Z781-ND	6.75	6.08	5.40	4.86	LY1-AC110/120
	DPDT	12VDC	160	10A @ 110VAC 10A @ 24VDC	Plug-In	Z790-ND	7.58	6.82	6.06	5.46	LY2-DC12
		24VDC	650		Plug-In with Diode	Z2263-ND	14.34	12.91	11.48	10.33	LY2-D-DC24
		24VDC	650		Plug-In	Z2266-ND	21.20	19.09	16.97	15.27	LY2N-D2-DC24
		24VDC	650		Plug-In	Z789-ND	7.58	6.82	6.06	5.46	LY2-DC24
		24VAC	180		Plug-In	Z788-ND	7.58	6.82	6.06	5.46	LY2-AC24
		48VDC	2600		Plug-In	Z2262-ND	9.61	8.65	7.69	6.92	LY2-DC48
		120VAC	4430		Plug-In	Z786-ND	7.58	6.82	6.06	5.46	LY2-AC110/120
		220VAC	12.9K		Plug-In with LED	Z2265-ND	13.48	12.14	10.79	9.71	LY2N-AC220/240
		24VDC	650	10A @ 110VAC	With LED and Test Button	Z1677-ND	10.58	9.53	8.47	7.62	LY2I4N-DC24
		120VAC	4430	10A @ 24VDC	With LED and Test Button	Z1678-ND	10.58	9.53	8.47	7.62	LY2I4N-AC110/120
	SPDT	12VDC	160	15A @ 110VAC 15A @ 24VDC	With Mounting Ears	Z193-ND	6.85	6.17	5.48	4.94	LY1F-DC12
		24VDC	650		With Mounting Ears	Z194-ND	6.85	6.17	5.48	4.94	LY1F-DC24
		24VAC	180		With Mounting Ears	Z195-ND	6.85	6.17	5.48	4.94	LY1F-AC24
		120VAC	4430		With Mounting Ears	Z782-ND	6.85	6.17	5.48	4.94	LY1F-AC110/120
		220VAC	12.9K		With Mounting Ears	Z2261-ND	9.08	8.18	7.27	6.54	LY1F-AC220/240
	DPDT	12VDC	160	10A @ 110VAC 10A @ 24VDC	With Mounting Ears	Z190-ND	7.73	6.96	6.18	5.57	LY2F-DC12
		24VDC	650		With Mounting Ears	Z191-ND	7.73	6.96	6.18	5.57	LY2F-DC24
		24VAC	180		With Mounting Ears	Z192-ND	7.73	6.96	6.18	5.57	LY2F-AC24
		120VAC	4430		With Mounting Ears	Z787-ND	7.73	6.96	6.18	5.57	LY2F-AC110/120
		220VAC	12.9K		With Mounting Ears	Z2264-ND	10.47	9.43	8.38	7.54	LY2F-AC220/240
	3PDT	24VDC	410	10A @ 110VAC 10A @ 24VDC	Plug-In	Z1679-ND	10.64	9.58	8.52	7.67	LY3-DC24
		120VAC	2300		Plug-In	Z1680-ND	10.64	9.58	8.52	7.67	LY3-AC120
		120VAC	2450		Plug-In with LED	Z2268-ND	17.10	15.40	13.69	12.32	LY3N-AC110/120
		24VAC	180		With Mounting Ears	Z2267-ND	13.16	11.85	10.53	9.48	LY3F-AC24
	4PDT	12VDC	650	10A @ 110VAC 10A @ 24VDC	Plug-In	Z1682-ND	12.40	11.16	9.92	8.93	LY4-DC12
		24VDC	100		Plug-In	Z1681-ND	12.40	11.16	9.92	8.93	LY4-DC24
		24VDC	350		Plug-In with Diode	Z2272-ND	19.34	17.41	15.47	13.93	LY4-D-DC24
		24VDC	350		Plug-In with LED	Z2275-ND	17.94	16.15	14.35	12.92	LY4N-DC24
		24VAC	78		Plug-In with LED	Z2274-ND	17.94	16.15	14.35	12.92	LY4N-AC24
		24VAC	78		Plug-In	Z2270-ND	12.40	11.16	9.92	8.93	LY4-AC24
		120VAC	1800		Plug-In	Z1683-ND	12.40	11.16	9.92	8.93	LY4-AC120
		120VAC	1800		Plug-In with LED	Z2273-ND	13.18	11.86	10.55	9.49	LY4N-AC110/120
		220VAC	12.9K		Plug-In	Z2271-ND	12.40	11.16	9.92	8.93	LY4-AC240
LY Power Relays — PC Mount											
1	SPDT	12VDC	160	15A @ 110VAC 15A @ 24VDC	PCB Mount	Z974-ND	6.75	6.08	5.40	4.86	LY1-0-DC12
		24VDC	650		PCB Mount	Z973-ND	6.75	6.08	5.40	4.86	LY1-0-DC24
		24VAC	180		PCB Mount	Z972-ND	6.75	6.08	5.40	4.86	LY1-0-AC24
		120VAC	4430		PCB Mount	Z971-ND	6.75	6.08	5.40	4.86	LY1-0-AC110/120
	DPDT	12VDC	160	10A @ 110VAC 10A @ 24VDC	PCB Mount	Z978-ND	7.58	6.82	6.06	5.46	LY2-0-DC12
		24VDC	650		PCB Mount	Z977-ND	7.58	6.82	6.06	5.46	LY2-0-DC24
		100VDC	6900		PCB Mount	Z979-ND	7.90	7.11	6.32	5.69	LY2-0-DC100/110
		24VAC	180		PCB Mount	Z976-ND	7.58	6.82	6.06	5.46	LY2-0-AC24
		120VAC	4430		PCB Mount	Z975-ND	7.58	6.82	6.06	5.46	LY2-0-AC110/120
	4PDT	24VDC	100	10A	PCB Mount	Z2269-ND	15.34	13.81	12.27	11.05	LY4-0-DC24
Power Relays — Plug-In Terminals											
2	DPDT	12VDC	95	10A @ 220VAC 10A @ 28VDC	Plug-In	Z800-ND	10.68	9.61	8.54	7.69	MK2P-S-DC12
		24VDC	430		Plug-In	Z799-ND	10.68	9.61	8.54	7.69	MK2P-S-DC24
		24VAC	88		Plug-In	Z798-ND	10.60	9.54	8.48	7.64	MK2P-S-AC24
		120VAC	2300		Plug-In	Z797-ND	11.60	10.44	9.28	8.36	MK2P-S-AC120
	3PDT	12VDC	95	10A @ 220VAC 10A @ 28VDC	Plug-In	Z804-ND	12.20	10.98	9.76	8.79	MK3P5-S-DC12
		24VDC	430		Plug-In	Z803-ND	12.20	10.98	9.76	8.79	MK3P5-S-DC24
		24VAC	88		Plug-In	Z802-ND	12.20	10.98	9.76	8.79	MK3P5-S-AC24
		120VAC	2300		Plug-In	Z801-ND	13.05	11.75	10.44	9.40	MK3P5-S-AC120
3	DPDT	12VDC	160	5A @ 220VAC 5A @ 24VDC	Plug-In	Z181-ND	5.38	4.84	4.30	3.87	MY2-DC12(S)
		24VDC	636		Plug-In	Z182-ND	5.38	4.84	4.30	3.87	MY2-DC24(S)
		48VDC	2560		Plug-In	Z183-ND	5.60	5.04	4.48	4.04	MY2-DC48(S)
		24VAC	180		Plug-In	Z184-ND	5.38	4.84	4.30	3.87	MY2-AC24(S)
		120VAC	4430		Plug-In	Z185-ND	5.60	5.04	4.48	4.04	MY2-AC110/120(S)
	3PDT	120VAC	4430	3A @ 110VAC	Plug-In with LED	Z2249-ND	10.30	9.28	8.25	7.42	MY3N-AC110/120
		110VDC	11.1K		Plug-In	Z2276-ND	7.60	6.84	6.08	5.48	MY4-DC100/110(S)
	4PDT	12VDC	160	3A @ 220VAC 3A @ 24VDC	Plug-In	Z186-ND	6.48	5.83	5.18	4.67	MY4-DC12(S)
		24VDC	636		Plug-In	Z187-ND	6.48	5.83	5.18	4.67	MY4-DC24(S)
		24VDC	636		Plug-In with LED	Z2188-ND	14.33	12.90	11.46	10.32	MY4N-DC24(S)
		24VAC	180		Plug-In	Z188-ND	6.48	5.83	5.18	4.67	MY4-AC24(S)
		120VAC	4430		Plug-In	Z189-ND	6.63	5.97	5.30	4.77	MY4-AC110/120(S)
		12VDC	160	3A @ 220VAC 3A @ 24VDC	Plug-In with LED	Z2279-ND	7.64	6.88	6.12	5.51	MY4N-DC12(S)
		24VDC	636		With LED & Diode	Z2278-ND	14.33	12.90	11.46	10.32	MY4N-D2-DC24(S)
		12VDC	160		Bifurcated Contacts	Z2281-ND	14.33	12.90	11.46	10.32	MY4ZN-DC12(S)
		24VDC	636		Bifurcated Contacts	Z2282-ND	18.62	16.77	14.90	13.41	MY4ZN-DC24(S)
		24VAC	180		Bifurcated Contacts	Z2280-ND	12.27	11.05	9.82	8.84	MY4Z-AC24(S)
		240VAC	18.79K		Plug-In with LED	Z2277-ND	6.63	5.97	5.30	4.77	MY4N-AC220/240(S)

§ Use 4PDT MY or MY2 Sockets

(Continued)

Fig. 1

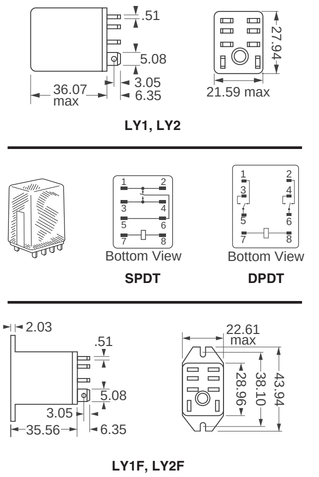

Fig. 2

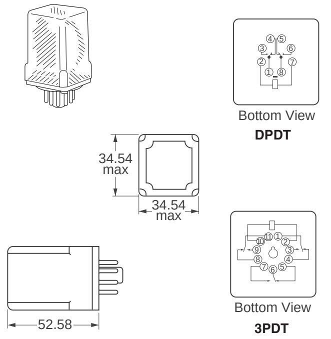

Fig. 3

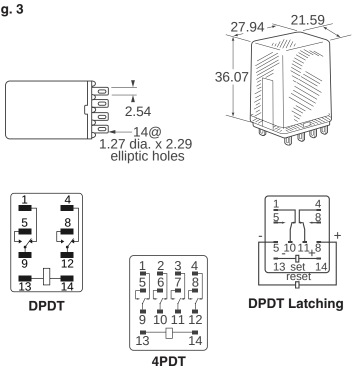

Fig. 4

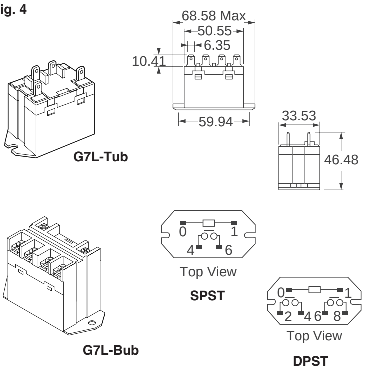

Power Relays *(Cont.)*

Fig.	Contact Form	Coil Volt.	Coil Res. (Ω)	Contact Ratings Resistive (A)	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
4	SPST	24VDC	303	30A @ 220VAC	.250” QC Type	Z817-ND	10.53	9.48	8.42	7.58	G7L-1A-TUB-J-CB-DC24
		24VAC	270		.250” QC Type	Z815-ND	11.30	10.17	9.04	8.14	G7L-1A-TUB-J-CB-AC24
		120VAC	5260		.250” QC Type	Z814-ND	11.30	10.17	9.04	8.14	G7L-1A-TUB-J-CB-AC100/120
		220VAC	21000		.250” QC Type	Z816-ND	11.93	10.74	9.54	8.59	G7L-1A-TUB-J-CB-AC200/240
		12VDC	75	30A @ 220VAC	Screw Terminal Type	Z1051-ND	15.75	14.18	12.60	11.34	G7L-1A-BUBJ-CB-DC12
		24VDC	303		Screw Terminal Type	Z1052-ND	15.75	14.18	12.60	11.34	G7L-1A-BUBJ-CB-DC24
		24VAC	303		Screw Terminal Type	Z1053-ND	15.15	13.64	12.12	10.91	G7L-1A-BUBJ-CB-AC24
		120VAC	5260		Screw Terminal Type	Z1054-ND	16.68	15.01	13.34	12.01	G7L-1A-BUBJ-CB-AC100/120
	DPST	24VDC	303	30A @ 220VAC	Screw Terminal Type	Z2258-ND	16.58	14.93	13.27	11.94	G7L2ABUBJCBDC24BYOMI
		12VDC	75		PCB Terminal Type	Z2259-ND	16.07	14.47	12.86	11.57	G7L-2A-P-CB-DC12
	DPST	24VDC	303	25A @ 220VAC	.250” QC Type	Z821-ND	10.95	9.86	8.76	7.89	G7L-2A-TUB-J-CB-DC24
		24VAC	270		.250” QC Type	Z820-ND	11.70	10.53	9.36	8.43	G7L-2A-TUB-J-CB-AC24
		120VAC	5260		.250” QC Type	Z818-ND	11.70	10.53	9.36	8.43	G7L-2A-TUB-J-CB-AC100/120
		220VAC	21000		.250” QC Type	Z819-ND	12.28	11.05	9.82	8.84	G7L-2A-TUB-J-CB-AC200/240
5	DPST-NO/NC	24VDC	288	25A @ 220VAC	Screw Terminal Type	Z1032-ND	40.83	36.75	32.66	29.40	G7J-2A2B-B-W1DC24
		120VAC	—		Screw Terminal Type	Z1030-ND	44.85	40.37	35.88	32.30	G7J-2A2B-B-W1AC100/120
		240VAC	—		Screw Terminal Type	Z1031-ND	46.28	41.65	37.02	33.32	G7J-2A2B-B-W1AC200/240
	3PST/ SPST	24VDC	288	25A @ 220VAC	Screw Terminal Type	Z1035-ND	40.83	36.75	32.66	29.40	G7J-3A1B-B-W1DC24
		120VAC	—		Screw Terminal Type	Z1033-ND	44.85	40.37	35.88	32.30	G7J-3A1B-B-W1AC100/120
		240VAC	—		Screw Terminal Type	Z1034-ND	46.28	41.65	37.02	33.32	G7J-3A1B-B-W1AC200/240
	4PST	24VDC	288	25A @ 220VAC	Screw Terminal Type	Z1038-ND	40.83	36.75	32.66	29.40	G7J-4A-B-W1-DC24
		120VAC	—		Screw Terminal Type	Z1036-ND	44.85	40.37	35.88	32.30	G7J-4A-B-W1-AC100/120
		240VAC	—		Screw Terminal Type	Z1037-ND	46.28	41.65	37.02	33.32	G7J-4A-B-W1-AC200/240
Power Relays — Hermetically Sealed Case											
3	4PDT	12DC	160	3A @ 110VAC 3A @ 24VDC	Class 1, Division 2	Z1223-ND	44.18	39.76	35.34	31.81	MY4H-DC12
		24DC	650		Class 1, Division 2	Z1224-ND	44.18	39.76	35.34	31.81	MY4H-DC24
		120AC	4430		Class 1, Division 2	Z1225-ND	44.18	39.76	35.34	31.81	MY4H-AC110/120
MY2K Latching Relays — Plug In											
3	DPDT	12VDC	160	5A @ 220VAC 5A @ 24VDC	Dual Coil Latching	Z2056-ND§	18.45	16.61	14.76	13.29	MY2K-DC12
		24VDC	636		Dual Coil Latching	Z2057-ND§	18.15	16.34	14.52	13.07	MY2K-DC24
		120VAC	4430		Dual Coil Latching	Z2055-ND§	74.86	67.38	59.89	53.91	MY2K-AC120
DC Power Relays — G9E Series											
6	SPST-NO	12DC	28.8	60A @ 400VDC	High Voltage DC	Z1610-ND	100.80	82.03	78.13	75.39	G9EA-1-B DC12
		24DC	115.2		High Voltage DC	Z1611-ND	100.80	82.03	78.13	75.39	G9EA-1-B DC24
		12DC	28.8		High Voltage DC	Z1612-ND	100.80	82.03	78.13	75.39	G9EA-1 DC12
		24DC	115.2		High Voltage DC	Z1613-ND	100.80	82.03	78.13	75.39	G9EA-1 DC24
		12DC	28.8	30A @ 400VDC	High Voltage DC	Z1614-ND	119.13	96.95	92.33	89.09	G9EA-1-CA-DC12
		24DC	115.2		High Voltage DC	Z1615-ND	172.25	155.03	137.80	124.02	G9EA-1-CA-DC24
		12DC	28.8		High Voltage DC	Z1616-ND	119.13	96.95	92.33	89.09	G9EA-1-B-CA-DC12
		24DC	115.2		High Voltage DC	Z1617-ND	119.13	96.95	92.33	89.09	G9EA-1-B-CA-DC24
		12DC	28.8	25A @ 400VDC	High Voltage DC	Z2304-ND	90.29	73.48	69.98	67.53	G9EB-1-B-DC12
		24DC	115.2	25A @ 400VDC	High Voltage DC	Z2305-ND	90.29	73.48	69.98	67.37	G9EB-1-B-DC24
7	SPST-NO	12VDC	12.8	200A @ 400VDC	High Voltage DC	Z1618-ND	190.41	156.25	150.77	145.75	G9EC-1-B DC12
		24VDC	51.2		High Voltage DC	Z1619-ND	190.41	156.25	150.77	145.75	G9EC-1-B DC24
		12VDC	12.8		High Voltage DC	Z1620-ND	190.41	156.25	150.77	145.75	G9EC-1 DC12
		24VDC	51.2		High Voltage DC	Z1621-ND	190.41	156.25	150.77	145.75	G9EC-1 DC24
Plug-In Safety Relays											
8	4PST	24VDC	800	6A	Positive Guarded Contacts	Z2362-ND	38.56	35.70	33.32	30.94	G7S-4A2B-DC24
	3PST	24VDC	800	6A	Positive Guarded Contacts	Z2363-ND	38.56	35.70	33.32	30.94	G7S-3A3B-DC24
	DIN Rail Socket with Screw Terminals for G7S Safety Relay					Z2417-ND	24.72	22.89	21.37	19.84	P7S-14F
	PCB Mount Socket for G7S Safety Relay					Z2418-ND	9.98	9.24	8.63	8.01	P7S-14P

§ Use 4PDT MY or MY2 Sockets

Fig. 5

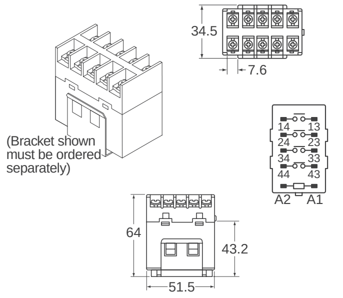

(Bracket shown must be ordered separately)

Fig. 6

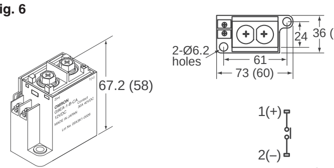

Dimensions in ( ) are for G9EB

Fig. 7

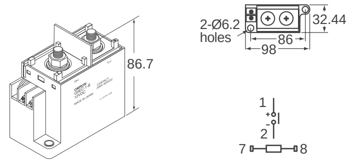

Fig. 8

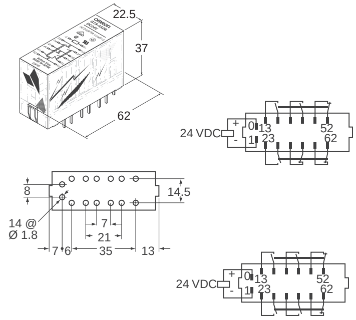

Relay Sockets and Accessories

Use with Series	Description	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
LY	SPDT-DPDT Track Mounted Relay Sockets	Z791-ND	4.95	4.46	3.96	3.57	PTF08A-E
LY	SPDT-DPDT Back Connecting Socket - PCB Mount	Z792-ND	1.80	1.62	1.44	1.30	PT08-0
LY	SPDT-DPDT Back Connecting Socket - Solder Ear	Z793-ND	1.80	1.62	1.44	1.30	PT08
LY/MY	Socket Mounting Plate for Back Connect Sockets	Z794-ND	.30	.27	.24	.22	PYP-1
LY/MY	Relay Hold-Down Clip for Track Mounted Sockets	Z795-ND	.28	.25	.22	.20	PYC-A1
LY/MY	Relay Hold-Down Clip for Back Connecting Sockets	Z796-ND	.28	.25	.22	.20	PYC-P
MY2	DPDT Track Mounted Relay Sockets	Z882-ND	5.20	4.68	4.16	3.75	PYF08A-E
MY3	3PDT Track Mounted Relay Socket	Z2288-ND	9.19	8.28	7.36	6.62	PYF11A
MY4/MY2K	4PDT Track Mounted Relay Sockets	Z811-ND	7.55	6.80	6.04	5.44	PYF14A-E
MY4/MY2K	4PDT Back Connecting Socket - Panel Mount	Z812-ND	1.80	1.62	1.44	1.30	PY14
MY4/MY2K	4PDT Back Connecting Socket - PCB Mount	Z813-ND	1.80	1.62	1.44	1.30	PY14-02
MY4/MY2K	Screwless Socket (Wire Trap) Type for MY4 Series	Z2063-ND	10.73	9.66	8.58	7.73	PYF14S
MY4	Tool for MY4 Series Screwless Socket	Z1670-ND	5.50	4.95	4.40	3.96	PYF-S-TOOL
MY2	Screwless Socket (Wire Trap) Type for MY2 Series	Z2062-ND	6.53	5.88	5.22	4.70	PYF08S
MY2	Socket Release Lever (Releases Relay) For PYF08S	Z2060-ND	.45	.41	.36	.33	PYCM-08S
MY4	Socket Release Lever (Releases Relay) For PYF14S	Z2061-ND	.69	.63	.56	.50	PYCM-14S
MY	Optional Nameplate for use with MY Wire Trap	Z2000-ND	4.98	4.48	3.98	3.59	R99-11
MK	DPDT Track Mounted Relay Sockets	Z805-ND	4.65	4.19	3.72	3.35	PF083A-E
MK	DPDT Connecting Socket - Panel Mount	Z836-ND	1.75	1.58	1.40	1.26	PL08
MK	DPDT Connecting Socket - PCB Mount	Z837-ND	2.90	2.61	2.32	2.09	PLE08-0
MK	3PDT Track Mounted Relay Sockets	Z806-ND	6.65	5.99	5.32	4.79	PF113A-E
MK	3PDT Connecting Socket - Panel Mount	Z838-ND	2.05	1.85	1.64	1.48	PL11
MK	3PDT Connecting Socket - PCB Mount	Z839-ND	2.90	2.61	2.32	2.09	PLE11-0
MY/LY/MK	1.0m (3.28ft.) DIN Rail Socket Mounting Track	Z840-ND	6.43	5.79	5.14	4.63	PFP100N
MY/LY/MK	0.5m (1.64ft.) DIN Rail Socket Mounting Track	Z841-ND	5.23	4.71	4.18	3.77	PFP50N
—	End Stop Plate for Din Track Rail	Z887-ND	.77	.70	.62	.56	PFP-M
—	W-Bracket for Omron Relay	Z1238-ND	1.36	1.23	1.09	.99	R9904FORG5F

OMRON General Purpose and Automotive Relays

All Relays UL/CSA approved

Fig.	Contact Form	Coil Volt.	Coil Res. (Ω)	Contact Ratings Resistive (A)	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
G8P Relay – PC Mount and QC Style											
1	SPST-NO	5DC	27	30A@250VAC 20A@28VDC	Open Case PCB	Z1002-ND	3.35	3.02	2.68	2.42	G8P-1AP-DC5
	SPST-NO	12DC	155		Open Case PCB	Z1003-ND	2.90	2.61	2.32	2.09	G8P-1AP-DC12
	SPST-NO	24DC	660		Open Case PCB	Z1004-ND	2.90	2.61	2.32	2.09	G8P-1AP-DC24
2	SPST-NO	5DC	27	30A@250VAC	Sealed PCB	Z1006-ND	3.43	3.17	2.97	2.63	G8P-1A4P-DC5
	SPST-NO	12DC	155	20A@28VDC	Sealed PCB	Z1007-ND	3.14	2.90	2.72	2.40	G8P-1A4P-DC12
	SPST-NO	24DC	660	1hp@125VAC & 2hp@250VAC	Sealed PCB	Z1008-ND	3.14	2.90	2.72	2.40	G8P-1A4P-DC24
	SPDT	12DC	155	10A@250VAC	Sealed PCB	Z1009-ND	3.30	2.97	2.64	2.38	G8P-1C4P-DC12
	SPDT	24DC	660	10A@28VDC	Sealed PCB	Z1010-ND	3.30	2.97	2.64	2.38	G8P-1C4P-DC24
3	SPST-NO	12VDC	155	20A@28VDC	PCB and QC Terminal	Z208-ND	3.70	3.33	2.96	2.67	G8P-1A4TP-DC12
	SPST-NO	24VDC	660	1hp@125VAC & 2hp@250VAC	PCB and QC Terminal	Z209-ND	3.70	3.33	2.96	2.67	G8P-1A4TP-DC24
	SPDT	12VDC	155	10A@250VAC	PCB and QC Terminal	Z210-ND	3.80	3.42	3.04	2.74	G8P-1C4TP-DC12
	SPDT	24VDC	660	10A@28VDC	PCB and QC Terminal	Z214-ND	3.80	3.42	3.04	2.74	G8P-1C4TP-DC24
4	SPST-NO	12VDC	155	20A@28VDC	Chassis Mount	Z215-ND	4.00	3.60	3.20	2.88	G8P-1A2T-F-DC12
	SPST-NO	24VDC	660	1hp@125VAC & 2hp@250VAC	Chassis Mount	Z216-ND	4.00	3.60	3.20	2.88	G8P-1A2T-F-DC24
	SPDT	12VDC	155	10A@250VAC	Chassis Mount	Z217-ND	4.10	3.69	3.28	2.96	G8P-1C2T-F-DC12
	SPDT	24VDC	660	10A@28VDC	Chassis Mount	Z218-ND	4.10	3.69	3.28	2.96	G8P-1C2T-F-DC24
G8JN ISO Automotive Relay											
5	SPDT	12DC	78	35NO/20NC	QC Terminal	Z981-ND	4.90	4.41	3.92	3.53	G8JN-1C7T-DC12
	SPDT	12DC	78	35NO/20NC	With Molded Bracket	Z982-ND	5.10	4.59	4.08	3.68	G8JN-1C7T-MF-DC12
	SPDT	12DC	78	35NO/20NC	Weather Proof Shroud	Z983-ND	5.23	4.71	4.18	3.77	G8JN-1C6T-DC12
	SPDT	12DC	78	35NO/20NC	Weather Proof w/ Bracket	Z984-ND	6.45	5.81	5.16	4.65	G8JN-1C6T-F-DC12
	SPDT	12DC	78	35NO/20NC	QC Terminal w/ Resistor	Z2248-ND	5.65	5.09	4.52	4.07	G8JN-1C7T-R-DC12
G8W Mini 280 Automotive Relay											
6	SPDT	12DC	91	35NO/20NC	Standard with Resistor	Z2260-ND	6.11	5.50	4.89	4.40	G8W-1C7T-R-DC12
	SPST	12DC	91	35NO/20NC	Weather Proof w/ Resistor	Z2053-ND	12.00	10.80	9.60	8.64	G8W-1A6T-F-R-DC12
	SPDT	12DC	91	35NO/20NC	Weather Proof w/ Bracket	Z2054-ND	6.15	5.54	4.92	4.43	G8W-1C6T-F-R-DC12
G8V Micro280 Automotive Relay											
7	SPST	12DC	104	20NO/10NC	Plug-In	Z2051-ND	5.03	4.53	4.02	3.62	G8V-1A7T-R-DC12
	SPDT	12DC	104	20NO/10NC	Plug-In	Z2052-ND	6.75	6.08	5.40	4.86	G8V-1C7T-R-DC12
G8H Micro ISO Automotive Relay											
8	SPDT	12DC	100	20NO/10NC	Plug-In	Z2001-ND	7.30	6.57	5.84	5.26	G8H-1C4T-R-DC12
	SPDT	12DC	100	20NO/10NC	Plug-In	Z2247-ND	4.38	3.94	3.50	3.15	G8HN-1C2T-R-DC12
MJN Relay – Plug-In Style											
9	DPDT	12VDC	120	10	Plug-In	Z237-ND	11.70	10.53	9.36	8.43	MJN2C-DC12
	DPDT	24VDC	470	10	Plug-In	Z236-ND	11.70	10.53	9.36	8.43	MJN2C-DC24
	DPDT	24VAC	75	10	Plug-In	Z235-ND	12.45	11.21	9.96	8.97	MJN2C-AC24
	3PDT	12VDC	120	10	Plug-In	Z233-ND	12.10	10.89	9.68	8.72	MJN3C-DC12
	3PDT	24VDC	470	10	Plug-In	Z232-ND	12.10	10.89	9.68	8.72	MJN3C-DC24
	3PDT	24VAC	72	10	Plug-In	Z231-ND	12.95	11.66	10.36	9.33	MJN3C-AC24
	3PDT	120VAC	1700	10	Plug-In	Z234-ND	13.63	12.27	10.90	9.81	MJN3C-AC120
MJN Relay with Mounting Flange											
9	DPDT	12VDC	120	10	With Mounting Flange	Z244-ND	11.38	10.24	9.10	8.19	MJN2CF-DC12
	DPDT	24VDC	470	10	With Mounting Flange	Z245-ND	11.25	10.13	9.00	8.10	MJN2CF-DC24
	DPDT	120VAC	2250	10	With Mounting Flange	Z246-ND	12.08	10.87	9.66	8.70	MJN2CF-AC120
	3PDT	12VDC	120	10	With Mounting Flange	Z241-ND	12.40	11.16	9.92	8.93	MJN3CF-DC12
	3PDT	24VAC	72	10	With Mounting Flange	Z239-ND	13.78	12.40	11.02	9.92	MJN3CF-AC24
	3PDT	120VAC	1700	10	With Mounting Flange	Z242-ND	14.03	12.63	11.22	10.10	MJN3CF-AC120
	DPDT	12VDC	120	20	With Mounting Flange	Z249-ND	15.00	13.50	12.00	10.80	MJN2CE-DC12
	DPDT	24VDC	470	20	With Mounting Flange	Z250-ND	15.00	13.50	12.00	10.80	MJN2CE-DC24
	DPDT	24VAC	75	20	With Mounting Flange	Z248-ND	15.38	13.84	12.30	11.07	MJN2CE-AC24
	DPDT	120VAC	2250	20	With Mounting Flange	Z247-ND	15.80	14.22	12.64	11.38	MJN2CE-AC120
MGN Relay – Heavy Duty Power Type											
10	SPDT	12VDC	72	30	With Mounting Flange	Z257-ND	23.50	21.15	18.80	16.92	MGN1C-DC12
	SPDT	24VDC	290	30	With Mounting Flange	Z258-ND	21.05	18.95	16.84	15.16	MGN1C-DC 24
	SPDT	24VAC	11.5	30	With Mounting Flange	Z255-ND	25.15	22.64	20.12	18.11	MGN1C-AC24
	SPDT	120VAC	295	30	With Mounting Flange	Z256-ND	23.38	21.04	18.70	16.83	MGN1C-AC120
	SPST	12VDC	72	30	With Mounting Flange	Z261-ND	20.15	18.14	16.12	14.51	MGN1X-DC12
	SPST	24VDC	290	30	With Mounting Flange	Z262-ND	21.15	19.04	16.92	15.23	MGN1X-DC24
	SPST	24VAC	11.5	30	With Mounting Flange	Z260-ND	18.93	17.04	15.14	13.63	MGN1X-AC24
	SPST	120VAC	295	30	With Mounting Flange	Z259-ND	18.95	17.06	15.16	13.65	MGN1X-AC120
	DPST	12VDC	72	30	With Mounting Flange	Z265-ND	24.05	21.65	19.24	17.32	MGN2A-DC12
	DPST	24VDC	290	30	With Mounting Flange	Z266-ND	22.78	20.50	18.22	16.40	MGN2A-DC24
	DPST	24VAC	11.5	30	With Mounting Flange	Z264-ND	25.75	23.18	20.60	18.54	MGN2A-AC24
	DPDT	12VDC	72	30	With Mounting Flange	Z269-ND	34.25	30.83	27.40	24.66	MGN2C-DC12
	DPDT	24VDC	290	30	With Mounting Flange	Z270-ND	33.15	29.84	26.52	23.87	MGN2C-DC24
	DPDT	24VAC	11.5	30	With Mounting Flange	Z268-ND	34.65	31.19	27.72	24.95	MGN2C-AC24
	DPDT	120VAC	295	30	With Mounting Flange	Z267-ND	29.70	26.73	23.76	21.39	MGN2C-AC120

Relay Sockets and Accessories

Fig.	Use with Series	Description	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
11	MJN (10A)	Din Rail Socket with Screw Terminals	Z251-ND	8.03	7.23	6.42	5.78	PTF11PC
12	MJN (10A)	Chassis Mount with QC Terminals	Z252-ND	1.70	1.53	1.36	1.23	PTF11QDC
11	MJN (10A)	Chassis Mount with Screw Terminals	Z253-ND	7.80	7.02	6.24	5.62	PTF21PC
12	MJN (10A)	Chassis Mount with PCB Terminals	Z254-ND	1.58	1.42	1.26	1.14	PTFPCB
—	G2R-S	Nameplate for use with PTRF-05	Z2000-ND	4.98	4.48	3.98	3.59	R99-11
—	G2R-S	Screwless Socket (Wire Trap) SP G2R-S	Z2058-ND	4.20	3.78	3.36	3.03	PTRF-05-S
—	G2R-S	Screwless Socket (Wire Trap) DP G2R-S	Z2059-ND	6.60	5.94	5.28	4.76	PTRF-08-S

Fig. 1 G8P

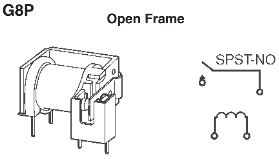

Fig. 2 G8P

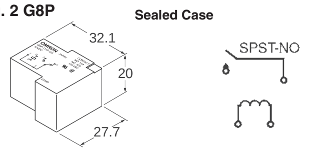

Fig. 3 G8P
PCB & QC

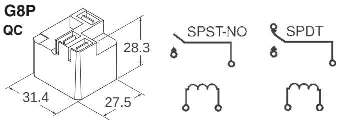

Fig. 4 G8P
Chassis Mount

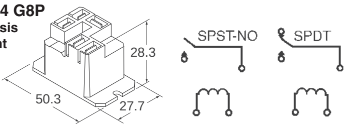

Fig. 5 G8JN

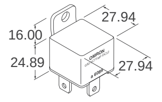

Fig. 6 G8W

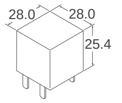

Fig. 7 G8V

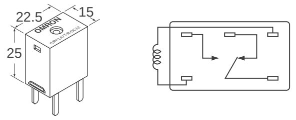

Fig. 8 G8H/G8HN - Mini-ISO

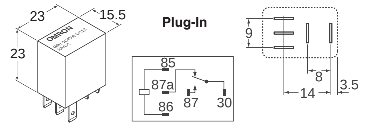

Fig. 9 MJN

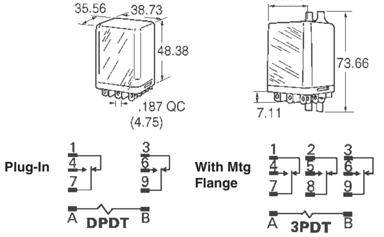

Fig. 10 MGN

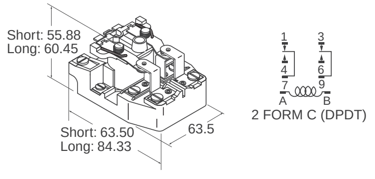

Fig. 11

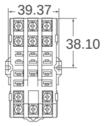

Fig. 12

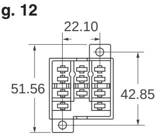

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High Frequency Relays

Dimensions in mm
Bottom view shown

Fig. 1 ***ARE Series***

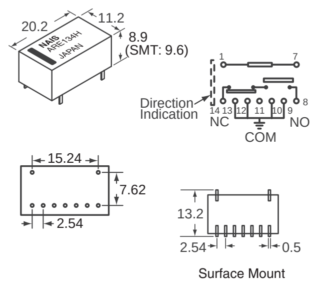

Fig. 2 ***ARJ Series***

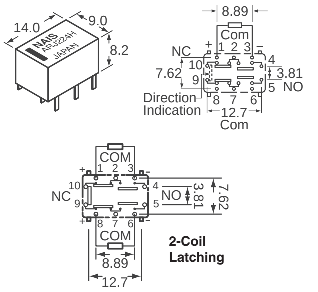

Fig. 3 ***RK Series***

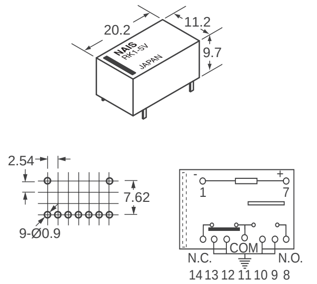

Fig. 4 ***RP Series***

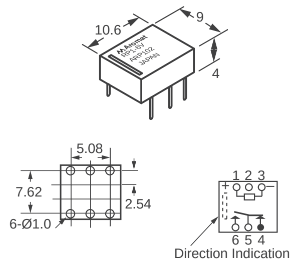

Fig.	Contact Arrangement	Coil Voltage	Coil Resistance (Ω)	Coil Current (mA)	Contact Ratings (A) 30VDC	125VAC	Pickup/ Dropout/ Maximum Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
ARE Series High Frequency Relays													
1	SPDT-NO/NC	4.5VDC	101	44.40	0.5	—	3.375/0.45/4.95	255-1573-ND	5.27	4.84	4.30	3.66	ARE134H
		12VDC	720	16.70	0.5	—	9/1.2/13.2	255-1572-ND	5.27	4.84	4.30	3.66	ARE1312
		4.5VDC	101	44.40	0.5	—	3.375/0.45/4.95	255-1575-5-ND*	5.73	5.27	4.68	3.98	ARE13A4H
		12VDC	720	16.70	0.5	—	9/1.2/13.2	255-1574-5-ND*	5.73	5.27	4.68	3.98	ARE13A12
ARJ Series High Frequency Relays													
2	DPDT	12VDC	720	16.6	0.3	—	9/1.2/13.2	255-1460-ND	153.69	141.15	125.46	106.65	ARJ2012
		4.5VDC	101.2	44.4	0.3	—	3.375/0.45/4.95	255-1461-ND*	153.69	141.15	125.46	106.65	ARJ20A4H
		12VDC	720	16.6	0.3	—	9/1.2/13.2	255-1462-ND*	153.69	141.15	125.46	106.65	ARJ20A12
ARJ Series Dual Coil Latching High Frequency Relays													
2	DPDT	4.5VDC	135	33.3	0.3	—	3.375/3.375/4.95	255-1577-ND	153.69	141.15	125.46	106.65	ARJ224H
		4.5VDC	135	33.3	0.3	—	3.375/3.375/4.95	255-1579-ND*	153.69	141.15	125.46	106.65	ARJ22A4H
		12VDC	960	12.5	0.3	—	9/9/13.2	255-1578-ND*	153.69	141.15	125.46	106.65	ARJ22A12
RK Series High Frequency Relays													
3	SPDT	5VDC	125	40	0.01	—	3.75/0.5/5.5	255-1085-ND	9.26	8.51	7.56	6.43	RK1-5V
		6VDC	180	34	0.01	—	4.5/0.6/6.6	255-1086-ND	9.26	8.51	7.56	6.43	RK1-6V
		12VDC	720	17	0.01	—	9/1.2/13.2	255-1087-ND	9.26	8.51	7.56	6.43	RK1-12V
		24VDC	2,880	9	0.01	—	18/2.4/26.4	255-1088-ND	9.53	8.76	7.78	6.62	RK1-24V
RP Series High Frequency Low Profile Relays													
4	SPDT	5VDC	178	28	0.1	—	3.75/0.5/7.5	255-1089-ND	21.78	20.01	17.78	15.12	RP1-5V
		12VDC	1,028	11.7	0.1	—	9/1.2/18	255-1090-ND	21.78	20.01	17.78	15.12	RP1-12V
		24VDC	2,133	11.3	0.1	—	18/2.4/28.8	255-1091-ND	22.39	20.57	18.28	15.54	RP1-24V

* Surface Mount

Signal Relays

Dimensions in mm
Bottom view shown (SMD's are top view)

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A) 30VDC	125VAC	Pickup/ Dropout/ Max. Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
AGQ Series Low Signal Relays													
1	DPDT	1.5VDC	16	93.8	1	0.3	1.13/0.15/2.25	255-1356-5-ND	3.38	3.11	2.76	2.35	AGQ2001H
		3VDC	64.2	46.7	1	0.3	2.25/0.3/4.5	255-1505-5-ND	3.38	3.11	2.76	2.35	AGQ20003
		4.5VDC	145	31	1	0.3	3.38/0.45/6.75	255-1357-5-ND	3.38	3.11	2.76	2.35	AGQ2004H
		12VDC	1,028	11.7	1	0.3	9/1.2/18	255-1358-5-ND	3.38	3.11	2.76	2.35	AGQ20012
		24VDC	2,504	9.6	1	0.3	18/2.4/28.8	255-1359-5-ND	3.97	3.65	3.24	2.76	AGQ20024
AGQ Series Low Signal Relays SMD													
2	DPDT	1.5VDC	16	93.8	1	0.3	1.13/0.15/2.25	255-1360-5-ND	3.80	3.49	3.10	2.64	AGQ200S1H
		3VDC	64.2	46.7	1	0.3	2.25/0.3/4.5	255-1361-5-ND	3.80	3.49	3.10	2.64	AGQ200S03
		4.5VDC	145	31	1	0.3	3.38/0.45/6.75	255-1362-5-ND	3.80	3.49	3.10	2.64	AGQ200S4H
		12VDC	1,028	11.7	1	0.3	9/1.2/18	255-1363-5-ND	3.80	3.49	3.10	2.64	AGQ200S12
		24VDC	2,504	9.6	1	0.3	18/2.4/28.8	255-1364-5-ND	4.39	4.03	3.58	3.05	AGQ200S24
AGN Series Compact Low Signal Relays													
3A	DPDT	4.5VDC	145	31	1	0.3	3.38/0.45/6.75	255-1230-5-ND	3.38	3.11	2.76	2.35	AGN2004H
		12VDC	1,028	11.7	1	0.3	9/1.2/18	255-1231-5-ND	3.38	3.11	2.76	2.35	AGN20012
		24VDC	2,504	9.6	1	0.3	18/2.4/28.8	255-1232-5-ND	3.97	3.65	3.24	2.76	AGN20024
AGN Series Compact Low Signal Relays SMD													
3B	DPDT	3VDC	64.2	46.7	1	0.3	2.25/0.3/4.5	255-1504-5-ND	3.50	3.22	2.86	2.44	AGN200A03
		4.5VDC	145	31	1	0.3	3.38/0.45/6.75	255-1233-5-ND	3.50	3.22	2.86	2.44	AGN200A4H
		12VDC	1,028	11.7	1	0.3	9/1.2/18	255-1234-5-ND	3.50	3.22	2.86	2.44	AGN200A12
		24VDC	2,504	9.6	1	0.3	18/2.4/28.8	255-1235-5-ND	4.12	3.78	3.36	2.86	AGN200A24
DS Series Low Signal Relays (High Sensitivity and Standard Coils)													
4A	SPDT	3VDC	45	—	2	2	2.4/0.3/4.8	255-1478-ND	6.59	6.06	5.38	4.58	DS1E-S-DC3V
		5VDC	125	—	2	2	4/0.5/8	255-1609-ND	6.59	6.06	5.38	4.58	DS1E-S-DC5V
		12VDC	720	—	2	2	9.6/1.2/19.2	255-1607-ND	6.59	6.06	5.38	4.58	DS1E-S-DC12V
		24VDC	2,880	—	2	2	19.2/2.4/28.4	255-1608-ND	6.59	6.06	5.38	4.58	DS1E-S-DC24V

Fig. 1 ***AGQ Series***

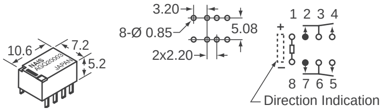

Fig. 2 ***AGQ Series - SMD***

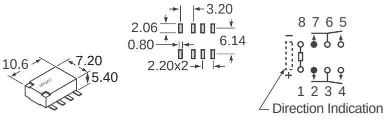

Fig. 3 ***AGN Series***

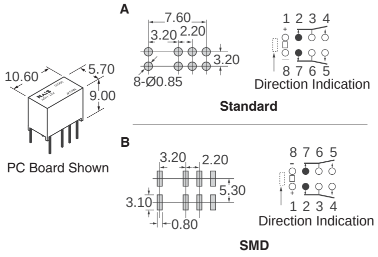

(Continued)

Signal Relays *(Cont.)*

Dimensions in mm
Bottom view shown (SMD's are top view)

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A) 30VDC	125VAC	Pickup/ Dropout/ Max. Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
5A	DPDT	5VDC	125	40	2	0.6	4/3.5/7.5	255-1062-ND	4.04	3.72	3.30	2.81	DS2E-S-DC5V
		6VDC	180	—	2	2	4.2/0.6/12	255-1610-ND	4.04	3.72	3.30	2.81	DS2E-S-DC6V
		12VDC	720	16.6	2	2	8.4/1.2/18	255-1063-ND	4.04	3.72	3.30	2.81	DS2E-S-DC12V
		24VDC	2,880	8.3	2	2	16.8/2.4/36	255-1064-ND	4.04	3.72	3.30	2.81	DS2E-S-DC24V
		48VDC	11,520	4.1	2	2	33.6/4.8/76.8	255-1065-ND	5.49	5.04	4.48	3.81	DS2E-S-DC48V
6A	4PDT	5VDC	125	—	2	2	3.5/0.5/10	255-1482-ND	7.86	7.23	6.42	5.46	DS4E-S-DC5V
		6VDC	180	—	2	2	4.2/0.6/12	255-1483-ND	7.86	7.23	6.42	5.46	DS4E-S-DC6V
		12VDC	720	—	2	2	8.4/1.2/24	255-1481-ND	7.86	7.23	6.42	5.46	DS4E-S-DC12V
		24VDC	2,880	—	2	2	16.8/2.4/48	255-1616-ND	7.86	7.23	6.42	5.46	DS4E-S-DC24V
4A	SPDT	5VDC	62.5	—	2	2	3.5/0.5/6	255-1474-ND	4.68	4.30	3.82	3.25	DS1E-M-DC5V
		12VDC	360	—	2	2	8.4/1.2/14.4	255-1473-ND	4.68	4.30	3.82	3.25	DS1E-M-DC12V
		24VDC	1,440	—	2	2	16.8/2.4/28.8	255-1605-ND	4.68	4.30	3.82	3.25	DS1E-M-DC24V
5A	DPDT	5VDC	62.5	80	2	2	3.5/0.5/7.5	255-1070-ND	3.26	3.00	2.66	2.27	DS2E-M-DC5V
		9VDC	203	—	2	2	6.3/0.9/13.5	255-1479-ND	3.26	3.00	2.66	2.27	DS2E-M-DC9V
		12VDC	360	33.2	2	2	8.4/1.2/18	255-1071-ND	3.26	3.00	2.66	2.27	DS2E-M-DC12V
		24VDC	1,440	16.6	2	2	16.8/2.4/36	255-1072-ND	3.26	3.00	2.66	2.27	DS2E-M-DC24V
		48VDC	5,760	8.3	2	0.6	33.6/4.8/76.8	255-1073-ND	4.07	3.74	3.32	2.83	DS2E-M-DC48V
6A	4PDT	5VDC	62.50	—	2	2	3.5/0.5/7.5	255-1614-ND	6.64	6.10	5.42	4.61	DS4E-M-DC5V
		12VDC	360	—	2	2	8.4/1.2/18	255-1611-ND	6.64	6.10	5.42	4.61	DS4E-M-DC12V
		24VDC	1,440	—	2	2	16.8/2.4/36	255-1612-ND	6.64	6.10	5.42	4.61	DS4E-M-DC24V
		48VDC	5,760	—	2	2	33.6/4.8/72	255-1613-ND	7.35	6.75	6.00	5.10	DS4E-M-DC48V
DS Series Dual Coil Latching Relays (High Sensitivity and Standard Coils)													
5B	DPDT	5VDC	139	35.9	2	2	3.5/3.5/10	255-1066-ND	4.78	4.39	3.90	3.32	DS2E-SL2-DC5V
		12VDC	800	15	2	2	8.4/8.4/24	255-1067-ND	4.78	4.39	3.90	3.32	DS2E-SL2-DC12V
		24VDC	3,200	7.5	2	2	16.8/16.8/48	255-1068-ND	4.78	4.39	3.90	3.32	DS2E-SL2-DC24V
		48VDC	12,800	3.25	2	2	33.6/33.6/96	255-1069-ND	5.71	5.25	4.66	3.97	DS2E-SL2-DC48V
6B	4PDT	5VDC	139	—	2	2	3.5/—/10	255-1484-ND	8.80	8.08	7.18	6.11	DS4E-SL2-DC5V
		24VDC	3,200	—	2	2	16.8/—/48	255-1617-ND	8.80	8.08	7.18	6.11	DS4E-SL2-DC24V
4B	SPDT	5VDC	69.4	—	2	2	3.5/—/6	255-1477-ND	5.22	4.80	4.26	3.63	DS1E-ML2-DC5V
		12VDC	400	—	2	2	8.4/—/14.4	255-1475-ND	5.22	4.80	4.26	3.63	DS1E-ML2-DC12V
		24VDC	1,600	—	2	2	16.8/—/28.8	255-1606-ND	5.22	4.80	4.26	3.63	DS1E-ML2-DC24V
5B	DPDT	3VDC	25	—	2	2	2.1/—/4.5	255-1480-ND	3.87	3.56	3.16	2.69	DS2E-ML2-DC3V
		5VDC	69.4	72	2	2	3.5/3.5/7.5	255-1074-ND	3.87	3.56	3.16	2.69	DS2E-ML2-DC5V
		12VDC	400	30	2	2	8.4/8.4/18	255-1075-ND	3.87	3.56	3.16	2.69	DS2E-ML2-DC12V
		24VDC	1,600	15	2	2	16.8/16.8/36	255-1076-ND	3.87	3.56	3.16	2.69	DS2E-ML2-DC24V
		48VDC	6,400	7.5	2	2	33.6/33.6/72	255-1077-ND	5.17	4.75	4.22	3.59	DS2E-ML2-DC48V
6B	4PDT	5VDC	69.4	—	2	2	3.5/—/7.5	255-1615-ND	7.52	6.91	6.14	5.22	DS4E-ML2-DC5V
DS2Y Series Low Signal Relays													
7A	DPDT	5VDC	125	40	2	2	3.5/0.5/10	255-1078-ND	2.65	2.43	2.16	1.84	DS2Y-S-DC5V
		12VDC	720	16.7	2	2	8.4/1.2/24	255-1079-ND	2.65	2.43	2.16	1.84	DS2Y-S-DC12V
		24VDC	2,880	8.3	2	2	16.8/2.4/48	255-1080-ND	2.74	2.52	2.24	1.91	DS2Y-S-DC24V
		48VDC	7,680	6.3	2	2	33.6/4.8/86	255-1081-ND	3.68	3.38	3.00	2.55	DS2Y-S-DC48V
DS2Y Series Dual Coil Latching Relays													
7B	DPDT	12VDC	800	15	2	2	8.4/8.4/24	255-1083-ND	3.04	2.79	2.48	2.11	DS2Y-SL2-DC12V
HD Ultra Miniature Single Pole Relays													
8	SPDT	5VDC	89	56.1	1	1	4/0.5/5.5	255-1636-ND	3.60	3.31	2.94	2.50	HD1E-M-DC5V
		6VDC	128	46.80	1	1	4.8/0.6/6.6	255-1637-ND	3.60	3.31	2.94	2.50	HD1E-M-DC6V
		12VDC	515	23.5	1	1	9.6/1.2/13.2	255-1634-ND	3.60	3.31	2.94	2.50	HD1E-M-DC12V
		24VDC	2,060	11.6	1	1	19.2/2.4/26.4	255-1635-ND	3.60	3.31	2.94	2.50	HD1E-M-DC24V
HX Series Compact Low Signal Relays													
9	DPDT	3VDC	28.1	107	1	0.3	2.25/0.3/3.3	255-1392-5-ND	3.43	3.15	2.80	2.38	HX2-3V
		12VDC	450	26.7	1	0.3	9/1.2/13.2	255-1237-5-ND	3.43	3.15	2.80	2.38	HX2-12V
HY Series General Purpose Relays													
10	SPDT	3VDC	60	50	1	—	2.25/0.3/4.2	255-1391-ND	3.16	2.91	2.58	2.20	HY1-3V
		5VDC	166	30.1	1	—	3.75/0.5/6.5	255-1092-ND	3.16	2.91	2.58	2.20	HY1-5V
		12VDC	960	12.5	1	—	9/1.2/15.6	255-1093-ND	3.16	2.91	2.58	2.20	HY1-12V
		24VDC	3,840	6.25	1	—	18/2.4/31.2	255-1094-ND	3.97	3.65	3.24	2.76	HY1-24V

Fig. 4 ***DS Series***

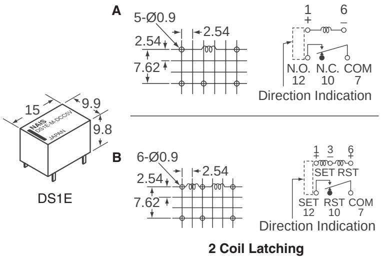

Fig. 5

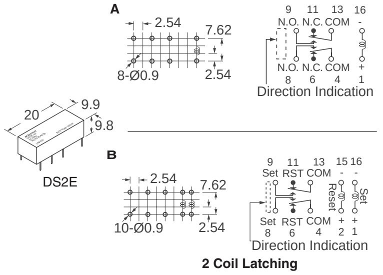

Fig. 6

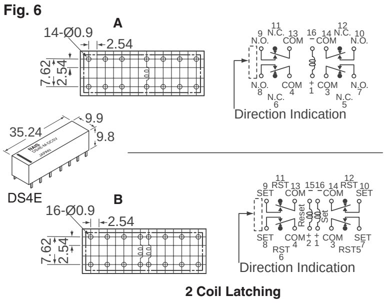

Fig. 7 ***DS2Y Series***

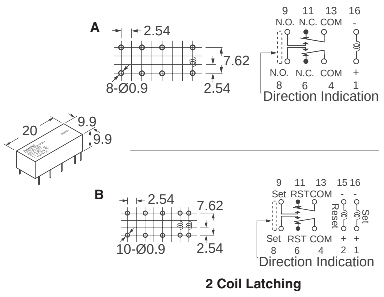

Fig. 8 ***HD Series***

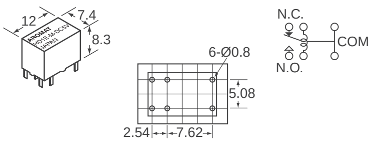

Fig. 9 ***HX Series***

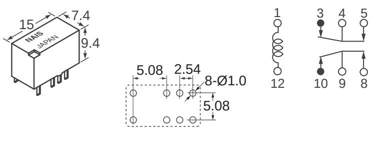

(Continued)

Signal Relays *(Cont.)*

Dimensions in mm

Bottom view shown (SMDs are top view)

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A)		Pickup/ Dropout/ Max. Voltage	Digi-Key Part No.	Price Each				Panasonic Part No.
					30VDC	125VAC			1	25	50	100	
10	SPDT-NO/NC	5VDC	125	40	1	—	3.75/0.5/6	255-1799-5-ND	2.89	2.66	2.36	2.01	HY1Z-5V
		6VDC	180	33.3	1	—	4.5/0.6/7.2	255-1800-5-ND	2.89	2.66	2.36	2.01	HY1Z-6V
		12VDC	720	16.7	1	—	9/1.2/14.4	255-1797-5-ND	2.89	2.66	2.36	2.01	HY1Z-12V
ASX Series Low Signal Relays													
11A	DPDT	3VDC	180	16.7	.01	.01	2.4/0.3/4.5	255-1402-5-ND	5.54	5.09	4.52	3.85	ASX20003
		4.5VDC	405	11.1	.01	.01	3.6/0.45/6.75	255-1403-5-ND	5.54	5.09	4.52	3.85	ASX2004H
		12VDC	2,880	4.2	.01	.01	9.6/1.2/18	255-1404-5-ND	5.76	5.29	4.70	4.00	ASX20012
		24VDC	8,229	2.9	.01	.01	19.2/2.4/36	255-1405-5-ND	6.32	5.81	5.16	4.39	ASX20024
12A	DPDT	3VDC	180	16.7	.01	.01	2.4/0.3/4.5	255-1406-5-ND	5.76	5.29	4.70	4.00	ASX200A03
		4.5VDC	405	11.1	.01	.01	3.6/0.45/6.75	255-1407-5-ND	5.76	5.29	4.70	4.00	ASX200A4H
		12VDC	2,880	4.2	.01	.01	9.6/1.2/18	255-1408-5-ND	5.76	5.29	4.70	4.00	ASX200A12
		24VDC	8,229	2.9	.01	.01	19.2/2.4/36	255-1409-5-ND	6.57	6.03	5.36	4.56	ASX200A24
ASX Series Single Coil Latching Relays													
11B	DPDT	3VDC	257	11.7	10mA@10VDC		2.4/2.4/4.5	255-1580-5-ND	6.20	5.70	5.06	4.31	ASX21003
		4.5VDC	579	7.8	10mA@10VDC		3.6/3.6/6.75	255-1583-5-ND	6.20	5.70	5.06	4.31	ASX2104H
		12VDC	4,114	2.9	10mA@10VDC		9.6/9.6/18	255-1581-5-ND	6.20	5.70	5.06	4.31	ASX21012
		24VDC	11,520	2.10	10mA@10VDC		19.2/19.2/36	255-1582-5-ND	6.74	6.19	5.50	4.68	ASX21024
12B	DPDT	3VDC	257	11.7	10mA@10VDC		2.4/2.4/4.5	255-1584-5-ND	6.42	5.90	5.24	4.46	ASX210A03
		4.5VDC	579	7.8	10mA@10VDC		3.6/6.75/3.6	255-1587-5-ND	6.42	5.90	5.24	4.46	ASX210A4H
		12VDC	4,114	2.9	10mA@10VDC		9.6/9.6/18	255-1585-5-ND	6.42	5.90	5.24	4.46	ASX210A12
		24VDC	11,520	2.1	10mA@10VDC		19.2/19.2/36	255-1586-5-ND	6.96	6.39	5.68	4.83	ASX210A24
ASX Series Dual Coil Latching Relays													
11C	DPDT	3VDC	129	23.3	10mA@10VDC		2.4/2.4/4.5	255-1588-5-ND	6.32	5.81	5.16	4.39	ASX22003
		4.5VDC	289	15.6	10mA@10VDC		3.6/3.6/6.75	255-1591-5-ND	6.32	5.81	5.16	4.39	ASX2204H
		12VDC	2,057	5.8	10mA@10VDC		9.6/9.6/18	255-1589-5-ND	6.32	5.81	5.16	4.39	ASX22012
12C	DPDT	3VDC	129	23.30	10mA@10VDC		2.4/2.4/4.5	255-1592-5-ND	6.57	6.03	5.36	4.56	ASX220A03
		4.5VDC	289	15.6	10mA@10VDC		3.6/3.6/6.75	255-1595-5-ND	6.57	6.03	5.36	4.56	ASX220A4H
		12VDC	2,057	5.8	10mA@10VDC		9.6/9.6/18	255-1593-5-ND	6.57	6.03	5.36	4.56	ASX220A12
		24VDC	3,840	6.3	10mA@10VDC		19.2/19.2/36	255-1594-5-ND	7.99	7.34	6.52	5.55	ASX220A24
TK Series Low Signal Relays													
13A	SPDT	3VDC	64.3	46.7	2	—	2.25/0.3/4.5	255-1756-5-ND	4.43	4.08	3.62	3.08	TK1-3V
		4.5VDC	145	31.1	2	—	3.38/0.45/6.7	255-1757-5-ND	4.43	4.08	3.62	3.08	TK1-4.5V
		5VDC	178	28.1	2	0.5	3.75/0.5/7.5	255-1028-5-ND	4.43	4.08	3.62	3.08	TK1-5V
		9VDC	579	15.5	2	—	6.75/0.9/13.5	255-1758-5-ND	4.43	4.08	3.62	3.08	TK1-9V
		12VDC	1,028	11.7	2	0.5	9/1.2/18	255-1029-5-ND	4.43	4.08	3.62	3.08	TK1-12V
		24VDC	2,133	11.3	2	0.5	18/2.4/28.8	255-1030-5-ND	5.10	4.68	4.16	3.54	TK1-24V
TK Series Single Coil Latching Relays													
13B	SPDT	5VDC	250	20	2	—	3.75/3.75/7.5	255-1764-5-ND	4.85	4.46	3.96	3.37	TK1-L-5V
		12VDC	1,440	8.3	2	—	9/9/18	255-1759-5-ND	4.85	4.46	3.96	3.37	TK1-L-12V
		24VDC	3,840	6.3	2	—	18/18/28.8	255-1762-5-ND	5.51	5.07	4.50	3.83	TK1-L-24V
TK Series Dual Coil Latching Relays													
13C	SPDT	5VDC	125	40	2	—	3.75/3.75/7.5	255-1763-5-ND	5.66	5.20	4.62	3.93	TK1-L2-5V
		12VDC	576	20.8	2	—	9/9/14.4	255-1760-5-ND	5.66	5.20	4.62	3.93	TK1-L2-12V
		24VDC	1,440	16.7	2	—	18/18/26.4	255-1761-5-ND	6.30	5.79	5.14	4.37	TK1-L2-24V
TN Series Low Signal Relays													
14A	DPDT	3VDC	64.3	46.7	1	0.5	2.25/0.3/4.5	255-1385-5-ND	3.90	3.58	3.18	2.71	TN2-3V
		4.5VDC	145	31.1	1	0.5	3.38/0.45/6.7	255-1765-5-ND	3.90	3.58	3.18	2.71	TN2-4.5V
		5VDC	178	28.1	1	0.5	3.75/0.5/7.5	255-1022-5-ND	3.90	3.58	3.18	2.71	TN2-5V
		9VDC	579	15.5	1	0.5	6.75/0.9/13.5	255-1386-5-ND	3.90	3.58	3.18	2.71	TN2-9V
		12VDC	1,028	11.7	1	0.5	9/1.2/18	255-1023-5-ND	3.90	3.58	3.18	2.71	TN2-12V
		24VDC	2,880	8.3	1	0.5	18/2.4/36	255-1024-5-ND	4.63	4.26	3.78	3.22	TN2-24V
TN Series Dual Coil Latching Relays													
14B	DPDT	5VDC	125	40	1	0.5	3.75/3.75/7.5	255-1025-5-ND	4.85	4.46	3.96	3.37	TN2-L2-5V
		12VDC	720	16.7	1	0.5	9/9/18	255-1026-5-ND	4.85	4.46	3.96	3.37	TN2-L2-12V
		24VDC	1,920	12.5	1	0.5	18/18/28.8	255-1027-5-ND	5.49	5.04	4.48	3.81	TN2-L2-24V

Fig. 10 ***HY Series***

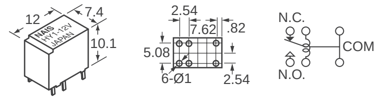

Fig. 11 ***ASX Series***

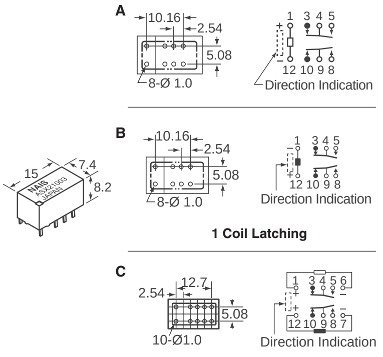

1 Coil Latching

2 Coil Latching

Fig. 12 ***ASX Series-SMD***

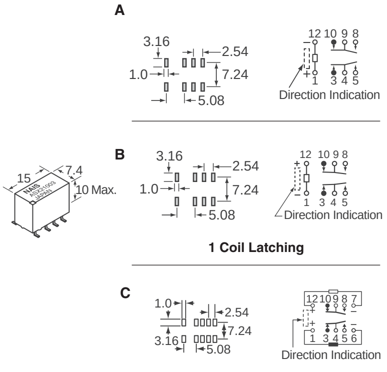

1 Coil Latching

2 Coil Latching

Fig. 13 ***TK Series***

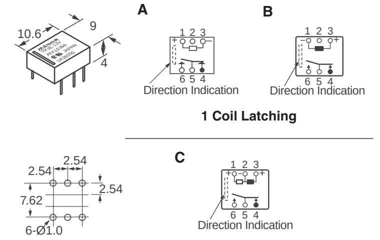

1 Coil Latching

2 Coil Latching

Fig. 14 ***TN Series***

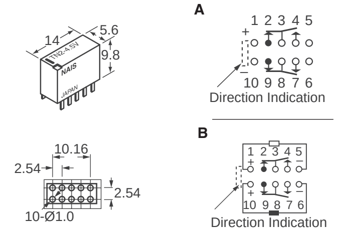

2 Coil Latching

(Continued)

Signal Relays *(Cont.)*

Dimensions in mm

Bottom view shown (SMD's are top view)

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Current (mA)	Contact Ratings (A) 30VDC	Contact Ratings (A) 125VAC	Pickup/ Dropout/ Max. Voltage	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
TQ Series Low Signal Relays													
15A	DPDT	3VDC	64.3	46.7	1	0.5	2.25/0.3/4.5	255-1225-5-ND	2.65	2.43	2.16	1.84	TQ2-3V
		4.5VDC	144	31.1	1	0.5	3.38/0.45/6.7	255-1226-5-ND	2.65	2.43	2.16	1.84	TQ2-4.5V
		5VDC	178	28.1	1	0.5	3.75/0.5/7.5	255-1001-5-ND	2.65	2.43	2.16	1.84	TQ2-5V
		9VDC	579	15.50	1	0.5	6.75/0.9/13.5	255-1766-5-ND	2.65	2.43	2.16	1.84	TQ2-9V
		12VDC	1,028	11.7	1	0.5	9/1.2/18	255-1002-5-ND	2.65	2.43	2.16	1.84	TQ2-12V
		24VDC	2,880	8.3	1	0.5	18/2.4/36	255-1003-5-ND	3.16	2.91	2.58	2.20	TQ2-24V
		48VDC	7,680	6.25	1	0.5	36/4.8/57.6	255-1801-5-ND	4.09	3.76	3.34	2.84	TQ2-48V
16A	DPDT	1.5VDC	16	93.8	2	0.5	1.13/0.15/2.2	255-1224-5-ND	3.01	2.77	2.46	2.10	TQ2SA-1.5V
		3VDC	64.3	46.7	2	0.5	2.25/0.30/4.5	255-1228-5-ND	3.01	2.77	2.46	2.10	TQ2SA-3V
		4.5VDC	145	31	2	0.5	3.38/0.45/6.7	255-1229-5-ND	3.01	2.77	2.46	2.10	TQ2SA-4.5V
		5VDC	178	28.1	2	0.5	3.75/0.5/7.5	255-1010-5-ND	3.01	2.77	2.46	2.10	TQ2SA-5V
		12VDC	1,028	11.7	2	0.5	9/1.2/18	255-1011-5-ND	3.01	2.77	2.46	2.10	TQ2SA-12V
		24VDC	2,880	8.3	2	0.5	18/2.4/36	255-1012-5-ND	3.58	3.29	2.92	2.49	TQ2SA-24V
17A	4PDT	4.5VDC	72.3	62.2	1	0.5	3.38/0.45/6.7	255-1777-5-ND	17.64	16.20	14.40	12.24	TQ4-4.5V
		5VDC	89	56.2	1	0.5	3.75/0.5/7.5	255-1013-5-ND	17.64	16.20	14.40	12.24	TQ4-5V
		12VDC	514	23.3	1	0.5	9/1.2/18	255-1014-5-ND	17.64	16.20	14.40	12.24	TQ4-12V
		24VDC	2,056	11.7	1	0.5	18/2.4/36	255-1015-5-ND	19.11	17.55	15.60	13.26	TQ4-24V
TQ Series Single Coil Latching Relays													
15B	DPDT	3VDC	90	33.3	1	0.5	2.25/2.25/4.5	255-1492-5-ND	3.16	2.91	2.58	2.20	TQ2-L-3V
		4.5VDC	202.5	22.2	1	0.5	3.38/3.38/6.7	255-1769-5-ND	3.16	2.91	2.58	2.20	TQ2-L-4.5V
		5VDC	250	20	1	0.5	3.75/3.75/7.5	255-1004-5-ND	3.16	2.91	2.58	2.20	TQ2-L-5V
		12VDC	1,440	8.3	1	0.5	9/9/18	255-1005-5-ND	3.16	2.91	2.58	2.20	TQ2-L-12V
		24VDC	3840	12.5	1	0.5	18/18/36	255-1006-5-ND	3.58	3.29	2.92	2.49	TQ2-L-24V
16B	DPDT	5VDC	357	14	2	0.5	3.75/3.75/7.5	255-1776-5-ND	3.58	3.29	2.92	2.49	TQ2SA-L-5V
		12VDC	2,057	5.8	2	0.5	9/9/18	255-1770-5-ND	3.58	3.29	2.92	2.49	TQ2SA-L-12V
		24VDC	5,760	4.2	2	0.5	18/18/36	255-1774-5-ND	4.04	3.72	3.30	2.81	TQ2SA-L-24V
TQ Series Dual Coil Latching Relays													
15C	DPDT	3VDC	45	66.7	1	0.5	2.25/2.25/4.5	255-1767-5-ND	3.31	3.04	2.70	2.30	TQ2-L2-3V
		4.5VDC	101.2	44.4	1	0.5	3.38/3.38/6.7	255-1768-5-ND	3.31	3.04	2.70	2.30	TQ2-L2-4.5V
		5VDC	125	40	1	0.5	3.75/3.75/7.5	255-1007-5-ND	3.31	3.04	2.70	2.30	TQ2-L2-5V
		9VDC	405	22.2	1	0.5	6.75/6.75/13.5	255-1355-5-ND	3.31	3.04	2.70	2.30	TQ2-L2-9V
		12VDC	720	16.7	1	0.5	9/9/18	255-1008-5-ND	3.31	3.04	2.70	2.30	TQ2-L2-12V
		24VDC	1,920	12.5	1	0.5	18/18/28.8	255-1009-5-ND	3.75	3.45	3.06	2.61	TQ2-L2-24V
16C	DPDT	4.5VDC	145	31	2	0.5	3.38/3.38/6.7	255-1773-5-ND	3.75	3.45	3.06	2.61	TQ2SA-L2-4.5V
		5VDC	178	28.1	2	0.5	3.75/3.75/7.5	255-1775-5-ND	3.75	3.45	3.06	2.61	TQ2SA-L2-5V
		12VDC	1,028	11.7	2	0.5	9/9/18	255-1771-5-ND	3.75	3.45	3.06	2.61	TQ2SA-L2-12V
		24VDC	2,880	8.3	2	0.5	18/36/18	255-1772-5-ND	4.19	3.85	3.42	2.91	TQ2SA-L2-24V
17B	4PDT	4.5VDC	50.6	88.9	1	0.5	3.38/3.38/6.7	255-1779-5-ND	21.09	19.38	17.22	14.64	TQ4-L2-4.5V
		5VDC	62.5	80	1	0.5	3.75/3.75/7.5	255-1780-5-ND	21.09	19.38	17.22	14.64	TQ4-L2-5V
		12VDC	360	33.3	1	0.5	9/9/18	255-1493-5-ND	21.09	19.38	17.22	14.64	TQ4-L2-12V
		24VDC	1,440	16.7	1	0.5	18/18/36	255-1778-5-ND	22.54	20.70	18.40	15.64	TQ4-L2-24V
TX Series Low Signal Relays													
18A	DPDT	4.5VDC	145	31	2	—	3.38/0.45/6.7	255-1781-5-ND	2.92	2.68	2.38	2.03	TX2-4.5V
		5VDC	178	28.1	2	0.5	3.75/0.5/7.5	255-1031-5-ND	2.92	2.68	2.38	2.03	TX2-5V
		12VDC	1,028	11.7	2	0.5	9/1.2/18	255-1032-5-ND	2.92	2.68	2.38	2.03	TX2-12V
		24VDC	4,114	5.8	2	0.5	18/2.4/36	255-1033-5-ND	3.45	3.18	2.82	2.40	TX2-24V
		48VDC	8,533	5.6	2	—	36/4.8/57.6	255-1494-5-ND	4.48	4.12	3.66	3.12	TX2-48V
19A	DPDT	3VDC	64.3	46.7	1	—	2.25/0.3/4.5	255-1787-5-ND	3.01	2.77	2.46	2.10	TX2SA-3V
		4.5VDC	145	31	1	—	3.38/0.45/6.7	255-1788-5-ND	3.01	2.77	2.46	2.10	TX2SA-4.5V
		5VDC	178	28.1	2	0.5	3.75/0.5/7.5	255-1034-5-ND	3.01	2.77	2.46	2.10	TX2SA-5V
		12VDC	1,028	11.7	2	0.5	9/1.2/18	255-1035-5-ND	3.01	2.77	2.46	2.10	TX2SA-12V
		24VDC	4,114	5.8	2	0.5	18/2.4/36	255-1036-5-ND	3.55	3.27	2.90	2.47	TX2SA-24V
TX Series Dual Coil Latching Relays													
18B	DPDT	4.5VDC	101.2	44.5	2	—	3.38/3.38/6.7	255-1784-5-ND	3.65	3.36	2.98	2.54	TX2-L2-4.5V
		5VDC	125	40	2	—	3.75/3.75/7.5	255-1785-5-ND	3.65	3.36	2.98	2.54	TX2-L2-5V
		9VDC	405	22.2	2	—	6.75/6.75/13.5	255-1786-5-ND	3.65	3.36	2.98	2.54	TX2-L2-9V
		12VDC	720	16.7	2	—	9/9/18	255-1782-5-ND	3.65	3.36	2.98	2.54	TX2-L2-12V
		24VDC	2,880	8.3	2	—	18/18/36	255-1783-5-ND	4.09	3.76	3.34	2.84	TX2-L2-24V
19B	DPDT	5VDC	125	40	1	—	3.75/3.75/7.5	255-1790-5-ND	3.75	3.45	3.06	2.61	TX2SA-L2-5V
		12VDC	720	16.7	1	—	9/9/18	255-1495-5-ND	3.75	3.45	3.06	2.61	TX2SA-L2-12V
		24VDC	2,880	8.3	1	—	18/18/36	255-1789-5-ND	4.19	3.85	3.42	2.91	TX2SA-L2-24V
TXS Series High Sensitivity Low Signal Relays													
19A	DPDT	4.5VDC	405	11.1	1	—	3.6/0.45/6.7	255-1393-5-ND	3.75	3.45	3.06	2.61	TXS2SA-4.5V
		12VDC	2,880	4.2	1	—	9.6/1.2/18	255-1394-5-ND	3.75	3.45	3.06	2.61	TXS2SA-12V
		24VDC	8,229	2.9	1	—	19.2/2.4/36	255-1395-5-ND	4.43	4.08	3.62	3.08	TXS2SA-24V

Fig. 15 ***TQ Series-TQ2***

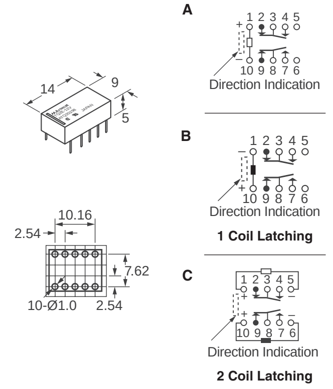

Fig. 16 ***TQ Series-SMD***

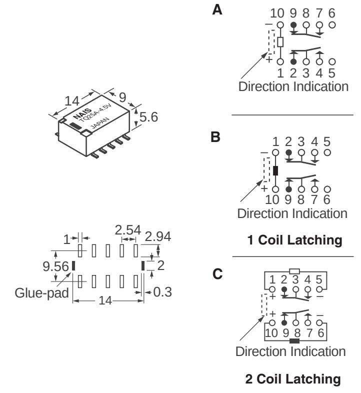

Fig. 17 ***TQ Series-TQ4***

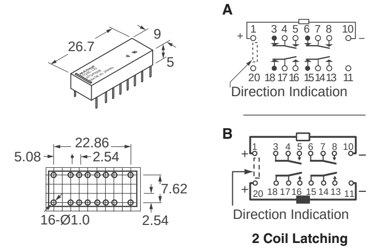

Fig. 18 ***TX Series***

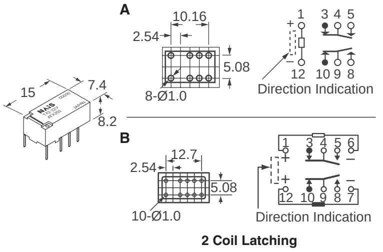

Fig. 19 ***TX and TXS Series-SMD***

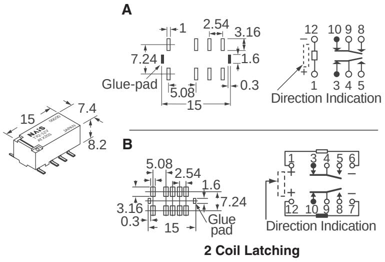

Fig. 1
DF Series

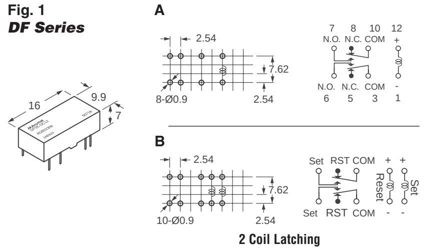

Fig. 2
ADJ Series

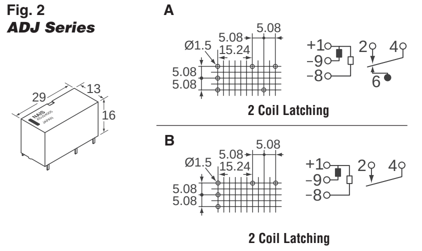

Fig. 3
DK Series

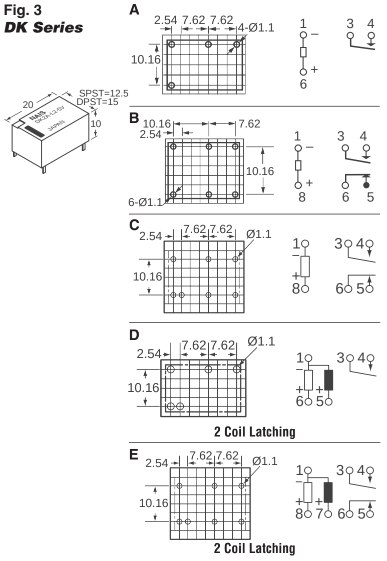

Fig. 4
DSP Series

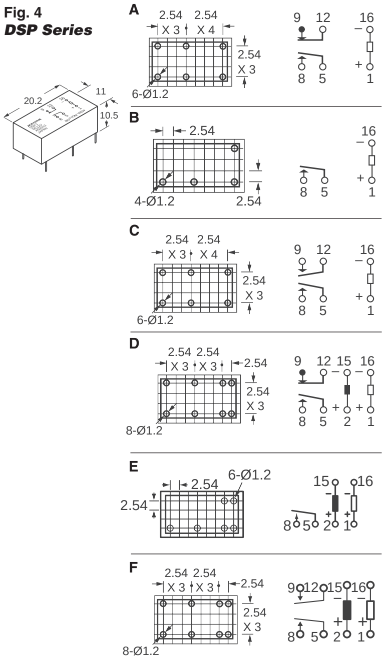

Fig. 5
ADQ Series

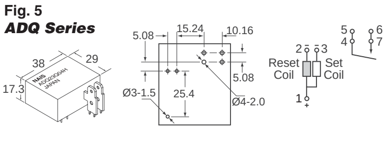

Fig. 6
HC Series

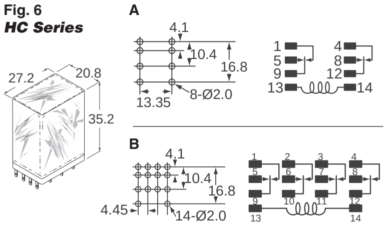

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	Contact Ratings (A) 125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50	Price Each 100	Panasonic Part No.
DF Series General Purpose Relays													
1A	DPDT	5DC	125	40	1	0.3	—	255-1037-ND	4.85	4.46	3.96	3.37	DF2E-DC5V
		12DC	720	16.7	1	0.3	—	255-1038-ND	4.85	4.46	3.96	3.37	DF2E-DC12V
		24DC	2,880	8.3	1	0.3	—	255-1039-ND	4.85	4.46	3.96	3.37	DF2E-DC24V
DF Series Dual Coil Latching Relays													
1B	DPDT	3DC	45	66.7	1	0.3	—	255-1040-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC3V
		5DC	125	40	1	0.3	—	255-1041-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC5V
		6DC	180	33.3	1	0.3	—	255-1042-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC6V
		9DC	405	22.2	1	0.3	—	255-1043-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC9V
		12DC	720	16.7	1	0.3	—	255-1044-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC12V
		24DC	2,880	8.3	1	0.3	—	255-1045-ND	5.86	5.38	4.78	4.07	DF2E-L2-DC24V
ADJ Series Dual Coil Power Latching Relays													
2A	SPDT-NO/NC	5DC	100	—	—	16@250	—	255-1496-ND	12.86	11.82	10.50	8.93	ADJ14005
		24DC	2,304	—	—	16@250	—	255-1499-ND	12.86	11.82	10.50	8.93	ADJ14024
2B	SPST-NO	6DC	144	—	—	16@250	—	255-1501-ND	12.86	11.82	10.50	8.93	ADJ24006
		12DC	576	—	—	16@250	—	255-1502-ND	12.86	11.82	10.50	8.93	ADJ24012
		24DC	2,304	—	—	16@250	—	255-1503-ND	12.86	11.82	10.50	8.93	ADJ24024
DK Series General Purpose Relays													
3A	SPST	5DC	125	40	10	10	—	255-1095-ND	7.37	6.78	6.02	5.12	DK1A-5V
		12DC	720	16.6	10	10	—	255-1096-ND	7.37	6.78	6.02	5.12	DK1A-12V
		24DC	2,880	8.3	10	10	—	255-1097-ND	7.37	6.78	6.02	5.12	DK1A-24V
3B	DPST	5DC	125	40	8	8	—	255-1098-ND	10.83	9.95	8.84	7.52	DK1A1B-5V
		12DC	720	16.6	8	8	—	255-1099-ND	10.83	9.95	8.84	7.52	DK1A1B-12V
		24DC	2,880	8.3	8	8	—	255-1100-ND	10.83	9.95	8.84	7.52	DK1A1B-24V
3C	DPST	5DC	125	40	8	8@250	—	255-1601-ND	10.78	9.90	8.80	7.48	DK2A-5V
		12DC	720	16.6	8	8@250	—	255-1599-ND	10.83	9.95	8.84	7.52	DK2A-12V
		24DC	2,880	8.3	8	8@250	—	255-1600-ND	10.83	9.95	8.84	7.52	DK2A-24V
DK Series Dual Coil General Purpose Relays													
3D	SPST	5DC	125	40	10	10@250	—	255-1598-ND	9.43	8.67	7.70	6.55	DK1A-L2-5V
		12DC	720	16.6	10	10@250	—	255-1596-ND	9.43	8.67	7.70	6.55	DK1A-L2-12V
		24DC	2,880	8.3	10	10@250	—	255-1597-ND	9.43	8.67	7.70	6.55	DK1A-L2-24V
3E	DPST	5DC	125	40	8	8@250	—	255-1604-ND	12.35	11.34	10.08	8.57	DK2A-L2-5V
		12DC	720	16.6	8	8@250	—	255-1602-ND	12.35	11.34	10.08	8.57	DK2A-L2-12V
		24DC	2,880	8.3	8	8@250	—	255-1603-ND	12.35	11.34	10.08	8.57	DK2A-L2-24V
PCB Mount Relay Socket for DK1A Relays								255-1101-ND	4.02	3.69	3.28	2.79	DK1A-PS
PCB Mount Relay Socket for DK1A1B Relays								255-1102-ND	3.99	3.67	3.26	2.78	DK2A-PS
DSP Series General Purpose Relays													
4A	DPST-NO/NC	5DC	83	60	5	5	—	255-1046-ND	6.98	6.42	5.70	4.85	DSP1-DC5V
		6DC	120	50	5	5@250	—	255-1622-ND	6.98	6.42	5.70	4.85	DSP1-DC6V
		9DC	270	33.3	5	5@250	—	255-1623-ND	6.98	6.42	5.70	4.85	DSP1-DC9V
		12DC	480	25	5	5	—	255-1047-ND	6.98	6.42	5.70	4.85	DSP1-DC12V
		24DC	1,920	12.5	5	5	—	255-1048-ND	6.98	6.42	5.70	4.85	DSP1-DC24V
		48DC	7,680	6.2	5	5@250	—	255-1621-ND	8.77	8.06	7.16	6.09	DSP1-DC48V
4B	SPST-NO	5DC	83	60	8	8	—	255-1049-ND	6.20	5.70	5.06	4.31	DSP1A-DC5V
		12DC	480	25	8	8	—	255-1050-ND	6.20	5.70	5.06	4.31	DSP1A-DC12V
		24DC	1,920	12.5	8	8	—	255-1051-ND	6.20	5.70	5.06	4.31	DSP1A-DC24V
4C	DPST-NO	5DC	83	60	5	5	—	255-1052-ND	6.86	6.30	5.60	4.76	DSP2A-DC5V
		12DC	480	25	5	5	—	255-1053-ND	6.86	6.30	5.60	4.76	DSP2A-DC12V
		24DC	1,920	12.5	5	5	—	255-1054-ND	6.86	6.30	5.60	4.76	DSP2A-DC24V
DSP Series Dual Coil Latching General Purpose Relays													
4D	DPST	5DC	83	60	5	5	—	255-1055-ND	7.37	6.78	6.02	5.12	DSP1-L2-DC5V
		12DC	480	25	5	5	—	255-1056-ND	7.37	6.78	6.02	5.12	DSP1-L2-DC12V
		24DC	1,920	12.5	5	5	—	255-1057-ND	7.37	6.78	6.02	5.12	DSP1-L2-DC24V
4E	SPST	5DC	83	60	5	8@250	—	255-1620-ND	6.98	6.42	5.70	4.85	DSP1A-L2-DC5V
		12DC	480	25.5	5	8@250	—	255-1618-ND	6.98	6.42	5.70	4.85	DSP1A-L2-DC12V
		24DC	1,920	12.5	5	8@250	—	255-1619-ND	6.98	6.42	5.70	4.85	DSP1A-L2-DC24V
4F	DPST	5DC	83	60	5	5@250	—	255-1626-ND	7.67	7.05	6.26	5.33	DSP2A-L2-DC5V
		12DC	480	25.5	5	5@250	—	255-1624-ND	7.67	7.05	6.26	5.33	DSP2A-L2-DC12V
		24DC	1,920	12.5	5	5@250	—	255-1625-ND	7.67	7.05	6.26	5.33	DSP2A-L2-DC24V
PCB Mount Relay Socket for DSP1A Relays								255-1058-ND	2.57	2.37	2.10	1.79	DSP1A-PS
PCB Mount Relay Socket for DSP1A-L2 Relays								255-1059-ND	3.01	2.77	2.46	2.10	DSP1A-PSL2
PCB Mount Relay Socket for DSP2A & DSP1 Relays								255-1060-ND	3.53	3.24	2.88	2.45	DSP2A-PS
PCB Mount Relay Socket for DSP2A-L2 & DSP1-L2 Relays								255-1061-ND	3.77	3.47	3.08	2.62	DSP2A-PSL2

(Continued)

Panasonic Electric Works

The new name for Aromat

Power Relays *(Cont.)*

Dim. in mm

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
ADQ Series Power Latching Relays													
5	SPST	4.5DC	12.7	355.6	—	30@250	—	255-1442-ND	18.79	17.26	15.34	13.04	ADQ23Q04H
		12DC	90	133.3	—	30@250	—	255-1443-ND	18.79	17.26	15.34	13.04	ADQ23Q012
		24DC	360	66.7	—	30@250	—	255-1444-ND	18.79	17.26	15.34	13.04	ADQ23Q024
HC Series Miniature Power Relays													
6A	DPDT	115AC	—	11.9	—	7@250	—	255-1627-ND	9.24	8.49	7.54	6.41	HC2-H-AC115V
		12DC	160	75	—	7@250	—	255-1628-ND	8.09	7.43	6.60	5.61	HC2-H-DC12V
6B	4PDT	24DC	650	37	—	5@250	—	255-1631-ND	9.41	8.64	7.68	6.53	HC4-H-DC24V
		115AC	—	11.9	—	5@250	—	255-1632-ND	10.63	9.77	8.68	7.38	HC4-HP-AC115V
PC Board Socket with hold-down clip for DPDT HC2 Series								255-1629-ND	1.37	1.26	1.12	.96	HC2-PS-K
Din Rail Mount Screw Terminal Socket for HC2 Series								255-1630-ND	3.75	3.45	3.06	2.61	HC2-SF-K
Din Rail Mount Screw Terminal Socket for HC3 Series								255-1840-ND	5.61	5.16	4.58	3.90	HC3-SFD-K
PC Board Socket with hold-down clip for 4PDT HC4 Series								255-1633-ND	1.57	1.44	1.28	1.09	HC4-PS-K
Din Rail Mount Screw Terminal Socket for 4PDT HC4 Series								255-1841-ND	6.57	6.03	5.36	4.56	HC4-SFD-K
End Stop Plate for Din Rail Mounting Track								255-1211-ND	2.00	1.89	1.79	—	ATA4806
HE Series Power Relays with Quick Connect or Screw Terminals													
7A	SPST	24AC	300	74	—	30@277	—	255-1640-ND	18.96	17.42	15.48	13.16	HE1AN-AC24V
		120AC	5,200	22.1	—	30@277	—	255-1638-ND	18.96	17.42	15.48	13.16	HE1AN-AC120V
		240AC	20,800	10.8	—	30@277	—	255-1639-ND	18.96	17.42	15.48	13.16	HE1AN-AC240V
		12DC	75	160	—	30@277	—	255-1641-ND	15.80	14.52	12.90	10.97	HE1AN-DC12V
		24DC	300	80	—	30@277	—	255-1642-ND	15.80	14.52	12.90	10.97	HE1AN-DC24V
		12DC	75	160	—	30@277	—	255-1643-ND	22.64	20.79	18.48	15.71	HE1AN-P-DC12V
		24DC	300	80	—	30@277	—	255-1644-ND	15.48	14.22	12.64	10.75	HE1AN-P-DC24V
		48DC	1,200	40	—	30@277	—	255-1645-ND	15.48	14.22	12.64	10.75	HE1AN-P-DC48V
		120AC	5,200	22.1	—	30@277	—	255-1651-ND	24.35	22.37	19.88	16.90	HE1AN-S-AC120V
		240AC	20,800	22.1	—	30@277	—	255-1652-ND	24.35	22.37	19.88	16.90	HE1AN-S-AC240V
		12DC	75	160	—	30@277	—	255-1653-ND	22.64	20.79	18.48	15.71	HE1AN-S-DC12V
		24DC	300	80	—	30@277	—	255-1654-ND	22.64	20.79	18.48	15.71	HE1AN-S-DC24V
7B	DPST	120AC	5,200	22.1	—	25@277	—	255-1658-ND	19.97	18.34	16.30	13.86	HE2AN-AC120V
		240AC	20,800	10.8	—	25@277	—	255-1485-ND	19.97	18.34	16.30	13.86	HE2AN-AC240V
		12DC	75	160	—	25@277	—	255-1659-ND	16.66	15.30	13.60	11.56	HE2AN-DC12V
		24DC	300	80	—	25@277	—	255-1660-ND	16.66	15.30	13.60	11.56	HE2AN-DC24V
		48DC	1,200	40	—	25@277	—	255-1661-ND	16.66	15.30	13.60	11.56	HE2AN-DC48V
		120AC	5,200	22.1	—	25@277	—	255-1667-ND	25.11	23.07	20.50	17.43	HE2AN-S-AC120V
		240AC	20,800	10.8	—	25@277	—	255-1668-ND	25.11	23.07	20.50	17.43	HE2AN-S-AC240V
		12DC	75	160	—	25@277	—	255-1669-ND	23.50	21.58	19.18	16.31	HE2AN-S-DC12V
		24DC	300	80	—	25@277	—	255-1670-ND	23.50	21.58	19.18	16.31	HE2AN-S-DC24V
HE Series Power Relays with Screw Terminals (Wide Pitch)													
7A	SPST	240AC	20,800	10.8	—	30@277	—	255-1655-ND	16.10	14.79	13.14	11.17	HE1AN-SW-AC240V
		12DC	75	160	—	30@277	—	255-1656-ND	15.26	14.02	12.46	10.60	HE1AN-SW-DC12V
		24DC	300	80	—	30@277	—	255-1657-ND	19.26	17.69	15.72	13.37	HE1AN-SW-DC24V
7B	DPST	120AC	5,200	22.1	—	25@277	—	255-1671-ND	25.11	23.07	20.50	17.43	HE2AN-SW-AC120V
		240AC	20,800	10.8	—	25@277	—	255-1672-ND	25.11	23.07	20.50	17.43	HE2AN-SW-AC240V
		12DC	75	160	—	25@277	—	255-1673-ND	22.83	20.97	18.64	15.85	HE2AN-SW-DC12V
		24DC	300	80	—	25@277	—	255-1674-ND	16.54	15.19	13.50	11.48	HE2AN-SW-DC24V
		48DC	1,200	40	—	25@277	—	255-1675-ND	16.54	15.19	13.50	11.48	HE2AN-SW-DC48V
HE Series Power Relays with NEMA Terminals													
7A	SPST	120AC	5,200	22.1	—	30@277	—	255-1646-ND	18.96	17.42	15.48	13.16	HE1AN-Q-AC120V
		240AC	20,800	10.8	—	30@277	—	255-1647-ND	18.96	17.42	15.48	13.16	HE1AN-Q-AC240V
		12DC	75	160	—	30@277	—	255-1648-ND	15.80	14.52	12.90	10.97	HE1AN-Q-DC12V
		24DC	300	80	—	30@277	—	255-1649-ND	15.80	14.52	12.90	10.97	HE1AN-Q-DC24V
		48DC	1,200	40	—	30@277	—	255-1650-ND	15.80	14.52	12.90	10.97	HE1AN-Q-DC48V
7B	DPST	120AC	5,200	22.1	—	25@277	—	255-1662-ND	19.97	18.34	16.30	13.86	HE2AN-Q-AC120V
		240AC	20,800	10.8	—	25@277	—	255-1486-ND	19.97	18.34	16.30	13.86	HE2AN-Q-AC240V
		12DC	75	160	—	25@277	—	255-1664-ND	16.66	15.30	13.60	11.56	HE2AN-Q-DC12V
		24DC	300	80	—	25@277	—	255-1665-ND	16.66	15.30	13.60	11.56	HE2AN-Q-DC24V
		48DC	1,200	40	—	25@277	—	255-1666-ND	16.66	15.30	13.60	11.56	HE2AN-Q-DC48V
HJ Series General Purpose Power Relays													
8A	DPDT	120AC	—	10.3	—	7@250	—	255-1676-ND	5.22	4.80	4.26	3.63	HJ2-AC120V
		240AC	—	6.4	—	7@250	—	255-1677-ND	5.98	5.49	4.88	4.15	HJ2-AC240V
		12DC	160	75	—	7@250	—	255-1678-ND	4.43	4.08	3.62	3.08	HJ2-DC12V
		24DC	650	37	—	7@250	—	255-1679-ND	4.66	4.28	3.80	3.23	HJ2-DC24V
		12DC	160	75	—	7@250	With LED	255-1680-ND	5.71	5.25	4.66	3.97	HJ2-L-T-DC12V
		24DC	650	37	—	7@250		255-1681-ND	5.93	5.45	4.84	4.12	HJ2-L-T-DC24V
		120AC	—	10.3	—	7@250	With Test Button	255-1682-ND	5.83	5.36	4.76	4.05	HJ2-T-AC120V
		12DC	160	75	—	7@250	With Test Button	255-1683-ND	5.05	4.64	4.12	3.51	HJ2-T-DC12V
		24DC	650	37	—	7@250		255-1684-ND	5.27	4.84	4.30	3.66	HJ2-T-DC24V
8B	4PDT	120AC	—	10.3	—	5@250	With Test Button	255-1685-ND	5.61	5.16	4.58	3.90	HJ4-AC120V
		240AC	—	6.4	—	5@250		255-1686-ND	6.37	5.85	5.20	4.42	HJ4-AC240V
		12DC	160	75	—	5@250	With Test Button	255-1687-ND	4.78	4.39	3.90	3.32	HJ4-DC12V
		24DC	650	37	—	5@250		255-1688-ND	5.00	4.59	4.08	3.47	HJ4-DC24V
		120AC	—	10.3	—	5@250	With LED	255-1689-ND	6.42	5.90	5.24	4.46	HJ4-L-AC120V
		240AC	—	6.4	—	5@250		255-1690-ND	7.11	6.53	5.80	4.93	HJ4-L-AC240V
		12DC	160	75	—	5@250	With LED	255-1691-ND	5.44	5.00	4.44	3.78	HJ4-L-DC12V
		24DC	650	37	—	5@250		255-1692-ND	5.61	5.16	4.58	3.90	HJ4-L-DC24V

Fig. 7
HE Series

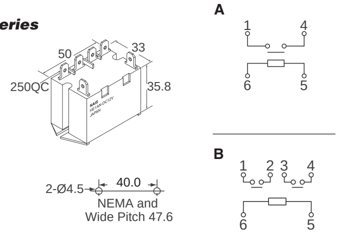

Fig. 8
HJ Series

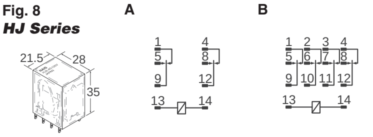

Fig. 9
AHN Series

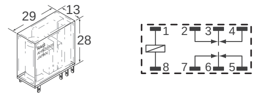

Fig. 10
JC Series

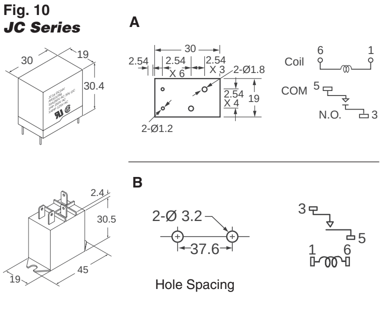

Fig. 11
JG Series

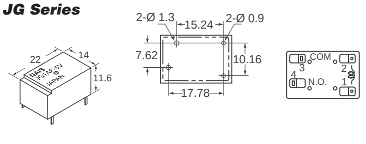

Fig. 12
JK Series

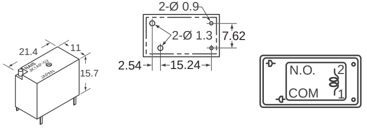

Fig. 13
JM Series

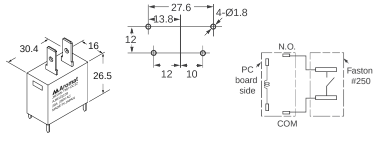

Fig. 14
JQ Series

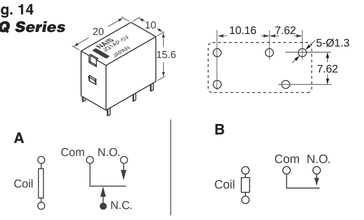

(Continued)

Power Relays *(Cont.)*

Dim in mm

Fig.	Contact Arrange.	Coil Voltage	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Ratings (A)		Additional Features	Digi-Key Part No.	Price Each				Panasonic Part No.
					30 VDC	125 VAC			1	25	50	100	
8B	4PDT	120AC	—	10.3	—	5@250	With LED	255-1693-ND	7.08	6.51	5.78	4.92	HJ4-L-T-AC120V
		240AC	—	6.4	—	5@250		255-1694-ND	7.82	7.18	6.38	5.43	HJ4-L-T-AC220/240V
		12DC	160	75	—	5@250	With LED	255-1695-ND	6.05	5.56	4.94	4.20	HJ4-L-T-DC12V
		24DC	650	37	—	5@250		255-1696-ND	6.27	5.76	5.12	4.36	HJ4-L-T-DC24V
		120AC	—	10.3	—	5@250	With Test Button	255-1697-ND	6.27	5.76	5.12	4.36	HJ4-T-AC120V
		240AC	—	6.4	—	5@250		255-1698-ND	7.03	6.46	5.74	4.88	HJ4-T-AC220/240V
		12DC	160	75	—	5@250	With Test Button	255-1699-ND	5.39	4.95	4.40	3.74	HJ4-T-DC12V
		24DC	650	37	—	5@250		255-1700-ND	5.61	5.16	4.58	3.90	HJ4-T-DC24V
Din Rail Mount Screw Terminal Socket for DPDT HJ2 Series								255-1838-ND	3.06	2.82	2.50	2.13	HJ2-SFD-S
Din Rail Mount Screw Terminal Socket for 4PDT HJ4 Series								255-1839-ND	4.21	3.87	3.44	2.93	HJ4-SFD-S
AHN Series Slim and Compact Relays													
9	DPDT-NO/NC	120AC	—	9.7	5	5@250	—	255-1506-ND	5.64	5.18	4.60	3.91	AHN210X1
		120AC	—	9.7	5	5@250	With LED	255-1507-ND	6.74	6.19	5.50	4.68	AHN211X1
		5DC	47	105.9	5	5@250	—	255-1508-ND	4.83	4.44	3.94	3.35	AHN22005
		12DC	270	44.2	5	5@250	—	255-1509-ND	4.83	4.44	3.94	3.35	AHN22012
		24DC	1,090	22.1	5	5@250	—	255-1510-ND	5.02	4.62	4.10	3.49	AHN22024
		5DC	47	105.9	5	5@250	With LED	255-1511-ND	5.73	5.27	4.68	3.98	AHN22105
		12DC	270	44.2	5	5@250		255-1512-ND	5.73	5.27	4.68	3.98	AHN22112
		24DC	1,090	22.1	5	5@250		255-1513-ND	5.93	5.45	4.84	4.12	AHN22124
Screw Terminal Socket - DIN Rail Type for AHN Relays............................								255-1802-ND	5.02	4.62	4.10	3.49	AHNA21
JC Series Power Relays													
10A	SPST-NO	6DC	40	150	15	15	—	255-1125-ND	5.61	5.16	4.58	3.90	JC1AF-DC6V
		12DC	160	75	15	15	—	255-1126-ND	5.61	5.16	4.58	3.90	JC1AF-DC12V
		24DC	640	37.5	15	15	—	255-1127-ND	5.61	5.16	4.58	3.90	JC1AF-DC24V
JC Series Compact Power Relays, Top Mount Type													
10B	SPST-NO	12DC	160	75	15	15	—	255-1416-ND	5.61	5.16	4.58	3.90	JC1AF-TM-DC12V
		24DC	640	37.5	15	15	—	255-1417-ND	5.61	5.16	4.58	3.90	JC1AF-TM-DC24V
JG Series Power Relays													
11	SPST	5DC	125	40	5	8	—	255-1368-ND	2.79	2.57	2.28	1.94	JG1AF-5V
		12DC	720	17	5	8	—	255-1369-ND	2.79	2.57	2.28	1.94	JG1AF-12V
		24DC	2,880	8.3	5	8	—	255-1370-ND	2.79	2.57	2.28	1.94	JG1AF-24V
JK Series Slim High Capacity Power Relays													
12	SPST	5DC	125	40	5	8	—	255-1371-ND	3.16	2.91	2.58	2.20	JK1AP-5V
		12DC	720	17	5	8	—	255-1372-ND	3.16	2.91	2.58	2.20	JK1AP-12V
		24DC	2,880	8.3	5	8	—	255-1373-ND	3.16	2.91	2.58	2.20	JK1AP-24V
JM Series Power Relays													
13	SPST-NO	5DC	27.8	180	20	20	—	255-1122-ND	8.94	8.22	7.30	6.21	JM1AN-TMP-DC5V
		12DC	160	75	20	20	—	255-1123-ND	8.94	8.22	7.30	6.21	JM1AN-TMP-DC12V
		24DC	640	37.5	20	20	—	255-1124-ND	8.94	8.22	7.30	6.21	JM1AN-TMP-DC24V
JQ Series High Noise Immunity Power Relays													
14A	SPDT	5DC	62.5	80	5	5	—	255-1263-ND	3.28	3.02	2.68	2.28	JQ1-5V
		12DC	360	33	5	5	—	255-1264-ND	3.28	3.02	2.68	2.28	JQ1-12V
		24DC	1,440	16.7	5	5	—	255-1265-ND	3.28	3.02	2.68	2.28	JQ1-24V
14B	SPST	5DC	125	40	5	5	—	255-1463-ND	2.99	2.75	2.44	2.08	JQ1A-5V
		12DC	720	16.7	5	5	—	255-1464-ND	2.99	2.75	2.44	2.08	JQ1A-12V
		24DC	2,880	8.3	5	5	—	255-1465-ND	2.99	2.75	2.44	2.08	JQ1A-24V
		5DC	125	40	5	10	High Capacity	255-1703-ND	3.28	3.02	2.68	2.28	JQ1AP-5V
		12DC	720	16.7	5	10		255-1701-ND	3.28	3.02	2.68	2.28	JQ1AP-12V
		24DC	2,880	8.3	5	10		255-1702-ND	3.28	3.02	2.68	2.28	JQ1AP-24V
14A	SPDT	12DC	360	33.3	5	10	High Capacity	255-1704-ND	3.60	3.31	2.94	2.50	JQ1P-12V
		24DC	1,440	16.7	5	10		255-1705-ND	3.60	3.31	2.94	2.50	JQ1P-24V
JR Series Power Relays													
15	SPST-NO	24DC	1,100	22.1	16	16	—	255-1111-ND	3.92	3.60	3.20	2.72	JR1AF-DC24V
		48DC	4,350	11	16	16	—	255-1112-ND	3.92	3.60	3.20	2.72	JR1AF-DC48V
JS Series Power Relays													
16A	SPDT	5DC	69.4	72	5	10	Class A Ins	255-1103-ND	1.20	1.11	.98	.84	JS1-5V
		6DC	100	60	5	10		255-1707-ND	1.20	1.11	.98	.84	JS1-6V
		9DC	225	40	5	10		255-1708-ND	1.20	1.11	.98	.84	JS1-9V
		12DC	400	30	5	10		255-1104-ND	1.20	1.11	.98	.84	JS1-12V
		24DC	1,600	15	5	10		255-1105-ND	1.30	1.20	1.06	.91	JS1-24V
		48DC	6,400	7.5	—	10		255-1706-ND	1.57	1.44	1.28	1.09	JS1-48V
16B	SPST	5DC	69.4	72	5	10	Class A Ins	255-1106-ND	1.15	1.06	.94	.80	JS1A-5V
		12DC	400	30	5	10		255-1107-ND	1.15	1.06	.94	.80	JS1A-12V
		24DC	1,600	15	5	10		255-1108-ND	1.18	1.08	.96	.82	JS1A-24V
		48DC	6,400	7.5	—	10		255-1709-ND	1.52	1.40	1.24	1.06	JS1A-48V
		5DC	69.4	72	—	10	Class B Ins	255-1712-ND	1.54	1.42	1.26	1.08	JS1A-B-5V-F
		9DC	225	40	—	10		255-1713-ND	1.54	1.42	1.26	1.08	JS1A-B-9V-F
		12DC	400	30	—	10		255-1710-ND	1.54	1.42	1.26	1.08	JS1A-B-12V-F
		24DC	1,600	15	—	10		255-1711-ND	1.54	1.42	1.26	1.08	JS1A-B-24V-F

Fig. 15
JR Series

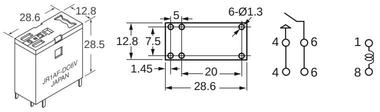

Fig. 16
JS Series

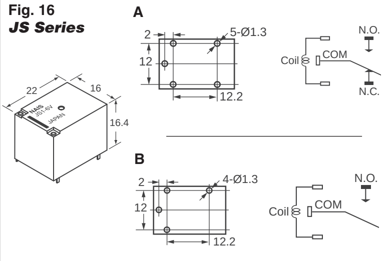

Fig. 17
CB Series

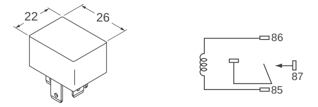

QC Terminal **SPST**

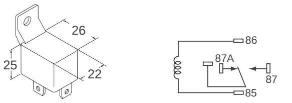

With Molded Bracket **SPDT**

Fig. 18
JSM Series

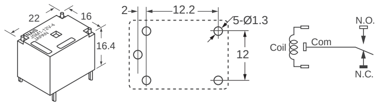

Fig. 19
JTN Series
- PCB

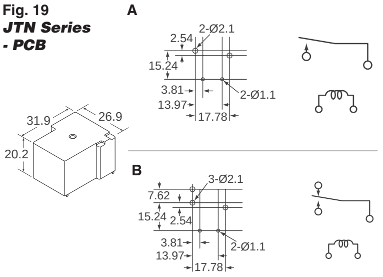

Fig. 20
JTN Series
- TMP

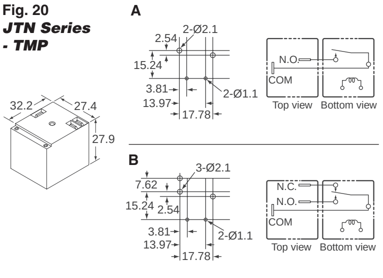

Fig. 21
JV Series

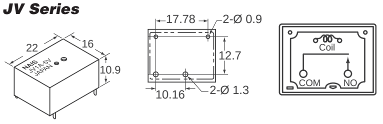

(Continued)

Power Relays *(Cont.)*

Dim in mm

Fig.	Contact Arrange.	Coil Volt-age	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
16A	SPDT	12DC	400	30	—	10	Class B Ins	255-1714-ND	1.30	1.20	1.06	.91	JS1-B-12V
		5DC	69.4	72	—	10	Class B Ins	255-1717-ND	1.49	1.38	1.22	1.04	JS1-B-5V-F
		9DC	225	40	—	10		255-1718-ND	1.49	1.38	1.22	1.04	JS1-B-9V-F
		12DC	400	30	—	10		255-1715-ND	1.49	1.38	1.22	1.04	JS1-B-12V-F
		24DC	1,600	15	—	10		255-1716-ND	1.49	1.38	1.22	1.04	JS1-B-24V-F
CB Series ISO Automotive Relays													
17	SPST	12DC	103	117	40A@14VDC		.250" QC	255-1826-ND	4.07	3.74	3.32	2.83	CB1A-12V
		24DC	320	75	20A@28VDC			255-1827-ND	4.31	3.96	3.52	3.00	CB1A-24V
	SPDT	12DC	103	117	40A@14VDC		.250" QC	255-1825-ND	4.29	3.94	3.50	2.98	CB1-12V
		24DC	320	75	20A@28VDC			255-1824-ND	4.56	4.19	3.72	3.17	CB1-24V
	SPST	12DC	103	117	40A@14VDC		w/ Molded Brkt.	255-1828-ND	4.21	3.87	3.44	2.93	CB1A-M-12V
		24DC	320	75	20A@28VDC			255-1829-ND	4.51	4.14	3.68	3.13	CB1A-M-24V
	SPDT	12DC	103	117	40A@14VDC		w/ Molded Brkt.	255-1830-ND	4.46	4.10	3.64	3.10	CB1-M-12V
		24DC	320	75	20A@28VDC			255-1831-ND	4.70	4.32	3.84	3.27	CB1-M-24V
	SPST	12DC	103	117	40A@14VDC		PCB Mount	255-1834-ND	4.07	3.74	3.32	2.83	CB1A-P-12V
		24DC	320	75	20A@28VDC			255-1835-ND	4.31	3.96	3.52	3.00	CB1A-P-24V
	SPDT	12DC	103	117	40A@14VDC		PCB Mount	255-1832-ND	4.29	3.94	3.50	2.98	CB1-P-12V
		24DC	320	75	20A@28VDC			255-1833-ND	4.56	4.19	3.72	3.17	CB1-P-24V
JSM Series Automotive Power Relays													
18	SPDT	12DC	225	53.3	10	—	—	255-1239-ND	1.30	1.20	1.06	.91	JSM1-12V-4
		12DC	225	53.3	15	—	High Capacity	255-1240-ND	1.42	1.31	1.16	.99	JSM1-12V-5
JTN Series - Economical (Appliance and Automotive Applications)													
19A	SPST	12DC	180	—	—	30@277	—	255-1719-ND	3.11	2.86	2.54	2.16	JTN1AS-PA-F-DC12V
		24DC	720	—	—	30@277	—	255-1720-ND	3.16	2.91	2.58	2.20	JTN1AS-PA-F-DC24V
20A	SPST	5DC	31	—	—	30@277	—	255-1487-ND	3.36	3.09	2.74	2.33	JTN1AS-TMP-F-DC5V
		12DC	180	—	—	30@277	—	255-1721-ND	3.36	3.09	2.74	2.33	JTN1AS-TMP-F-C12V
		24DC	720	—	—	30@277	—	255-1722-ND	3.41	3.13	2.78	2.37	JTN1AS-TMP-F-C24V
JTN Series - Economical (Appliance and Automotive Applications)													
19B	SPDT	12DC	180	—	—	30@277	—	255-1723-ND	3.36	3.09	2.74	2.33	JTN1S-PA-F-DC12V
20B	SPDT	12DC	180	—	—	30@277	—	255-1724-ND	3.58	3.29	2.92	2.49	JTN1S-TMP-F-DC12V
JV Series Flat Power Relays													
21	SPST	5DC	125	40	10	10	—	255-1377-ND	4.68	4.30	3.82	3.25	JV1A-5V
		12DC	720	16.7	10	10	—	255-1378-ND	4.68	4.30	3.82	3.25	JV1A-12V
		24DC	2,880	8.3	10	10	—	255-1379-ND	4.68	4.30	3.82	3.25	JV1A-24V
JW Series Power Relays													
22A	SPDT	5DC	47	106	10	10	Class A Ins	255-1113-ND	2.06	1.89	1.68	1.43	JW1FSN-DC5V
		6DC	68	88	10	10@250		255-1731-ND	2.06	1.89	1.68	1.43	JW1FSN-DC6V
		9DC	155	58	10	10@250		255-1488-ND	2.06	1.89	1.68	1.43	JW1FSN-DC9V
		12DC	270	44	10	10		255-1114-ND	2.06	1.89	1.68	1.43	JW1FSN-DC12V
		24DC	1,100	16.8	10	10		255-1115-ND	2.16	1.98	1.76	1.50	JW1FSN-DC24V
		48DC	4,400	11	10	10@250		255-1730-ND	2.25	2.07	1.84	1.57	JW1FSN-DC48V
		5DC	47	106	10	10@250	Class B Ins	255-1728-ND	2.13	1.96	1.74	1.48	JW1FSN-B-DC5V
		9DC	155	58	10	10@250		255-1729-ND	2.13	1.96	1.74	1.48	JW1FSN-B-DC9V
		12DC	270	44	10	10@250		255-1726-ND	2.13	1.96	1.74	1.48	JW1FSN-B-DC12V
		24DC	1,100	22	10	10@250		255-1727-ND	2.18	2.01	1.78	1.52	JW1FSN-B-DC24V
22B	DPST	12DC	270	44	5	5@250	Class A Ins	255-1733-ND	2.28	2.10	1.86	1.59	JW2ASN-DC12V
		24DC	1,100	22	5	5@250		255-1734-ND	2.28	2.10	1.86	1.59	JW2ASN-DC24V
22C	DPDT	5DC	47	106	5	5	Class A Ins	255-1116-ND	2.33	2.14	1.90	1.62	JW2SN-DC5V
		6DC	68	88	5	5@250		255-1735-ND	2.33	2.14	1.90	1.62	JW2SN-DC6V
		9DC	155	58	5	5@250		255-1736-ND	2.33	2.14	1.90	1.62	JW2SN-DC9V
		12DC	270	44	5	5		255-1117-ND	2.33	2.14	1.90	1.62	JW2SN-DC12V
		24DC	1,100	16.8	5	5		255-1118-ND	2.47	2.28	2.02	1.72	JW2SN-DC24V
		48DC	4,400	11	5	5		255-1119-ND	2.55	2.34	2.08	1.77	JW2SN-DC48V
22D	SPST	5DC	47	106	10	10@250	Class A Ins	255-1725-ND	1.94	1.78	1.58	1.35	JW1AFSN-DC5V
	SPST-NO	12DC	270	44	10	10		255-1120-ND	1.94	1.78	1.58	1.35	JW1AFSN-DC12V
	SPST-NO	24DC	1,100	16.8	10	10		255-1121-ND	2.01	1.85	1.64	1.40	JW1AFSN-DC24V
PC Board Socket for JW1Relays								255-1732-ND	2.47	2.28	2.02	1.72	JW1-PS
PC Board Socket for JW2 Relays..								255-1821-ND	2.77	2.55	2.26	1.93	JW2-PS
Din Mount Screw Terminal Socket for JW1 Relays (includes Clip).................								255-1820-ND	7.13	6.55	5.82	4.95	JW1-SFD
Din Mount Screw Terminal Socket for JW2 Relays (includes Clip).................								255-1822-ND	8.09	7.43	6.60	5.61	JW2-SFD
Panel Mount Plug-In Socket for JW1 Relays.......................................								255-1819-ND	2.65	2.43	2.16	1.84	JW1-SS
Panel Mount Plug-In Socket for JW2 Relays.......................................								255-1823-ND	2.89	2.66	2.36	2.01	JW2-SS
ALA Series Slim Power Relays													
23	DPST	5DC	100	50	3	3	—	255-1273-ND	1.52	1.40	1.24	1.06	ALA2F05
		12DC	272	44.2	3	3	—	255-1274-ND	1.52	1.40	1.24	1.06	ALA2F12
		24DC	1,087	22.1	3	3	—	255-1275-ND	1.54	1.42	1.26	1.08	ALA2F24
		12DC	272	44.2	—	5@277	—	255-1466-ND	1.76	1.62	1.44	1.23	ALA2PF12
ALD Series Slim Power Relay													
24	SPST	5DC	125	40.0	3	3	—	255-1456-ND	1.49	1.38	1.22	1.04	ALD105
		12DC	720	16.7	3	3	—	255-1457-ND	1.49	1.38	1.22	1.04	ALD112
		24DC	2,880	8.3	3	3	—	255-1458-ND	1.74	1.60	1.42	1.21	ALD124
ALE Series Power Relays (Ideal for Heater Loads)													
25	SPST	5DC	63	80	16	16	Class B Ins	255-1365-ND	1.62	1.49	1.32	1.13	ALE12B05
		12DC	360	33.3	16	16	Class B Ins	255-1366-ND	1.62	1.49	1.32	1.13	ALE12B12
		24DC	1,440	16.7	16	16	Class B Ins	255-1367-ND	1.74	1.60	1.42	1.21	ALE12B24
		24DC	1,440	16.7	16	16	PCB Only	255-1863-ND ***NEW!***	1.74	1.60	1.42	1.21	ALE15B24

Fig. 22
JW Series

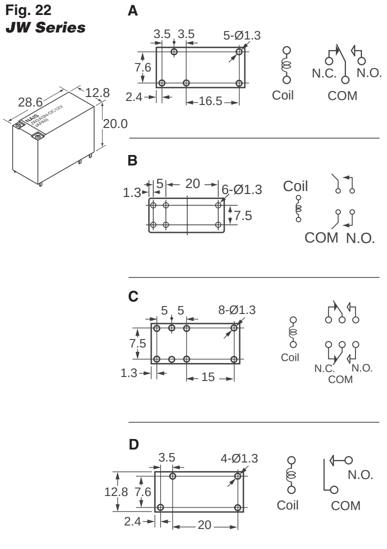

Fig. 23
ALA Series

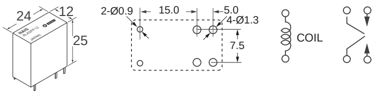

Fig. 24
ALD Series

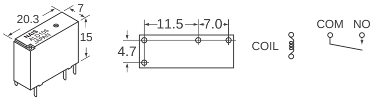

Fig. 25
ALE Series

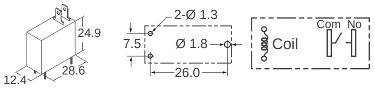

Fig. 26
LK Series

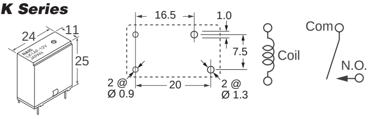

Fig. 27
ALZ Series

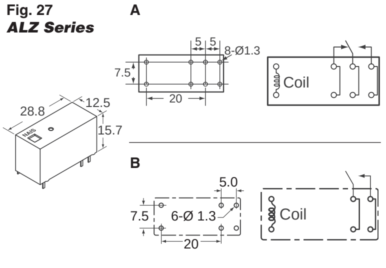

Fig. 28
NC Series

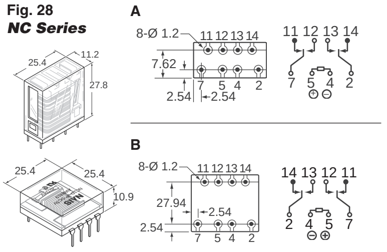

(Continued)

Power Relays *(Cont.)*

Dim in mm

Fig.	Contact Arrange.	Coil Volt-age	Coil Resist. (Ω)	Coil Curr. (mA)	Contact Ratings (A) 30 VDC	125 VAC	Additional Features	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
LK Series Slim High Inrush Power Relays													
26	SPST-NO	12DC	272	44.2	5	5	—	255-1266-ND	1.59	1.47	1.30	1.11	LK1AF-12V
		24DC	1,087	22.1	5	5	—	255-1267-ND	1.69	1.56	1.38	1.18	LK1AF-24V
LKS Series High Sensitivity Power Relays													
26	SPST-NO	5DC	100	50	5	5	—	255-1268-ND	1.37	1.26	1.12	.96	LKS1AF-5V
		12DC	576	20.8	5	5	—	255-1269-ND	1.37	1.26	1.12	.96	LKS1AF-12V
		24DC	2,304	10.4	5	5	—	255-1270-ND	1.45	1.33	1.18	1.01	LKS1AF-24V
LKP Series Slim Power Relays													
26	SPST	12DC	400	30	10	5	—	255-1271-ND	1.62	1.49	1.32	1.13	LKP1AF-12V
		24DC	1,600	15	10	5	—	255-1272-ND	1.64	1.51	1.34	1.14	LKP1AF-24V
ALZ Series Power Relays (Ideal for Heater Loads)													
27A	SPDT	12DC	360	33.3	—	16@250	Class B	255-1446-ND	2.08	1.92	1.70	1.45	ALZ12F12
		24DC	1,440	16.7	—	16@250	Class B	255-1445-ND	2.08	1.92	1.70	1.45	ALZ12B24
		24DC	1,440	16.7	—	16@250	Class F	255-1447-ND	2.16	1.98	1.76	1.50	ALZ12F24
27B	SPST	12DC	360	33.3	16	16	Class B	255-1410-ND	1.94	1.78	1.58	1.35	ALZ21B12
		12DC	360	33.3	—	16@250	Class F	255-1448-ND	2.01	1.85	1.64	1.40	ALZ21F12
		24DC	1,440	16.7	16	16	Class B	255-1411-ND	2.01	1.85	1.64	1.40	ALZ21B24
		24DC	1,440	16.7	—	16@250	Class F	255-1449-ND	2.11	1.94	1.72	1.47	ALZ21F24
		12DC	360	33.3	—	16@250	Class B	255-1514-5-ND	1.94	1.78	1.58	1.35	ALZ22B12
NC Series Power Relays													
28A	DPDT	5DC	69.4	72	5	5	Flat Style	255-1396-ND	10.95	10.06	8.94	7.60	NC2D-P-DC5V
		12DC	400	30	5	5		255-1397-ND	10.95	10.06	8.94	7.60	NC2D-P-DC12V
		24DC	1,600	15	5	5		255-1398-ND	10.95	10.06	8.94	7.60	NC2D-P-DC24V
28B	DPDT	5DC	69.4	72	5	5	Vertical	255-1399-ND	10.95	10.06	8.94	7.60	NC2D-JP-DC5V
		12DC	400	30	5	5		255-1400-ND	10.95	10.06	8.94	7.60	NC2D-JP-DC12V
		24DC	1,600	15	5	5		255-1401-ND	10.95	10.06	8.94	7.60	NC2D-JP-DC24V
PC Mount Socket for Flat NC2D-JP Series								255-1836-ND	1.98	1.83	1.62	1.38	NC2-JPS
PC Mount Socket for Vertical NC2D-P Series								255-1837-ND	1.98	1.83	1.62	1.38	NC2-PS
PA Series Slim Power Relays													
29	SPST	5DC	208	24	5	5@250	—	255-1738-5-ND	6.84	6.28	5.58	4.75	PA1A-5V
		24DC	3,200	7.5	5	5@250	—	255-1737-5-ND	6.84	6.28	5.58	4.75	PA1A-24V
APE Series Slim Power Relays													
30A	SPST	4.5DC	119	38	—	6@250	Silver Alloy	255-1450-ND	3.94	3.63	3.22	2.74	APE1004H
		12DC	847	14	—	6@250	Silver Alloy	255-1451-ND	3.94	3.63	3.22	2.74	APE10012
		4.5DC	119	38	—	6@250	Gold Over Silver	255-1452-ND	4.41	4.05	3.60	3.06	APE1014H
		12DC	847	14	—	6@250	Gold Over Silver	255-1453-ND	4.41	4.05	3.60	3.06	APE10112
30B	SPDT	12DC	847	14	—	6@250	Silver Alloy	255-1515-5-ND	4.19	3.85	3.42	2.91	APE30012
		24DC	3,388	7	—	6@250	Silver Alloy	255-1866-ND ***NEW!***	4.43	4.08	3.62	3.08	APE30024
		4.5DC	119	38	—	6@250	Gold Over Silver	255-1454-ND	4.83	4.44	3.94	3.35	APE3014H
		12DC	847	14	—	6@250	Gold Over Silver	255-1455-ND	4.83	4.44	3.94	3.35	APE30112
		24DC	3,388	7	—	6@250	Gold Over Silver	255-1868-ND ***NEW!***	5.10	4.68	4.16	3.54	APE30124
S Series 4 Amp Polorized High Density Relays													
31A	DPST x 2	5DC	130	38.5	3	4@250	—	255-1741-ND	14.99	13.77	12.24	10.41	S2EB-5V
		12DC	720	16.7	3	4@250	—	255-1739-ND	14.99	13.77	12.24	10.41	S2EB-12V
		24DC	2,850	8.4	3	4@250	—	255-1740-ND	14.99	13.77	12.24	10.41	S2EB-24V
	4PST	24DC	2,850	8.4	3	4@250	—	255-1744-ND	15.93	14.63	13.00	11.05	S4EB-24V
S Series Dual Coil Latching Relays													
31B	DPDT	12DC	720	16.7	3	4@250	—	255-1489-ND	16.22	14.90	13.24	11.26	S2EB-L2-12V
Relay Socket for S Series for DP and 4P Relays								255-1751-ND	2.74	2.52	2.24	1.91	S-PS
SF Series Safety Relays (Force Guided Contacts)													
32A	DPST	12DC	288	41.7	6	6	—	255-1412-ND	33.22	30.51	27.12	23.06	SF2-DC12V
	DPDT	5DC	50	100	6	6@250	—	255-1747-ND	33.22	30.51	27.12	23.06	SF2D-DC5V
		12DC	288	41.7	6	6@250	—	255-1745-ND	33.22	30.51	27.12	23.06	SF2D-DC12V
		24DC	1,152	20.8	6	6@250	—	255-1746-ND	33.22	30.51	27.12	23.06	SF2D-DC24V
32B	4PST	5DC	50	100	6	6	—	255-1414-ND	43.44	39.90	35.46	30.15	SF4-DC5
	4PDT	5DC	50	100	6	6@250	—	255-1748-ND	43.44	39.90	35.46	30.15	SF4D-DC5V
		12DC	288	41.7	6	6@250	—	255-1440-ND	43.44	39.90	35.46	30.15	SF4D-DC12V
		24DC	1,152	20.8	6	6@250	—	255-1441-ND	43.44	39.90	35.46	30.15	SF4D-DC24V
SP Series High Sensitivity Power Relays													
33A	DPDT	12DC	480	25	10	15@250	—	255-1749-ND	23.67	21.74	19.32	16.43	SP2-DC12V
Relay Socket for SP Series Screw Terminal								255-1750-ND	10.73	9.86	8.76	7.45	SP2-SF
SP Series Dual Coil Latching Relays													
33B	DPDT	12DC	480	25	10	15@250	—	255-1490-ND	26.46	24.30	21.60	18.36	SP2-L2-DC12V
33C	4PDT	12DC	480	25	10	10@250	—	255-1491-ND	34.35	31.55	28.04	23.84	SP4-L2-DC12V
ST Series IC Drivable Power Relays													
34A	DPST-O/C	5DC	105	47	8	8	—	255-1288-ND	11.96	10.98	9.76	8.30	ST1-DC5V
		12DC	600	20	8	8	—	255-1289-ND	11.96	10.98	9.76	8.30	ST1-DC12V
		24DC	2,400	10	8	8	—	255-1290-ND	11.96	10.98	9.76	8.30	ST1-DC24V
34B	DPST-NO	5DC	105	47	8	8	—	255-1291-ND	12.62	11.59	10.30	8.76	ST2-DC5V
		12DC	600	20	8	8	—	255-1292-ND	12.62	11.59	10.30	8.76	ST2-DC12V
		24DC	2,400	10	8	8	—	255-1293-ND	12.62	11.59	10.30	8.76	ST2-DC24V
PCB Mount Relay Socket for ST Series Relays								255-1294-ND	2.45	2.25	2.00	1.70	ST-PS

Fig. 29
APA Series

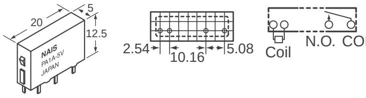

Fig. 30
APE Series

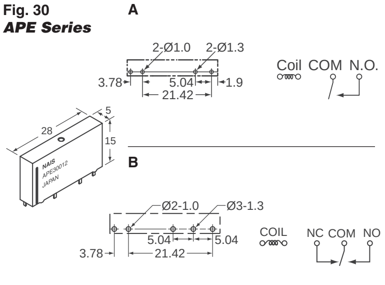

Fig. 31
S Series

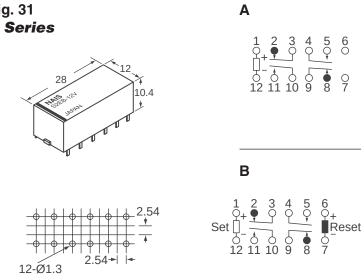

Fig. 32
SF Series

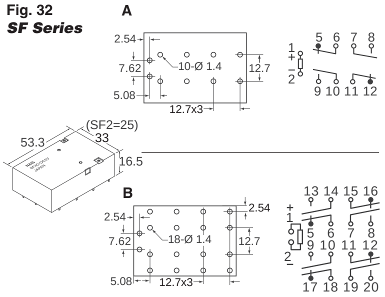

Fig. 33
SP Series

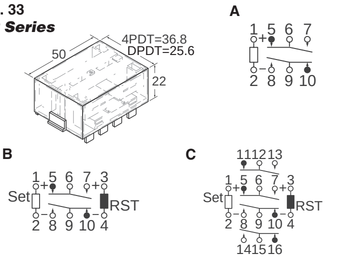

Fig. 34
ST Series

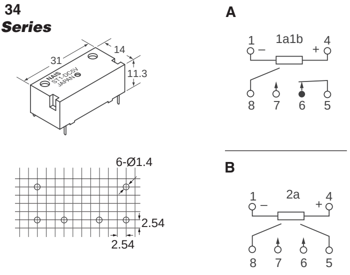

General Purpose PC Mount Relays

All relays are UL, CSA approved
Mounting hole connection diagrams are all bottom view unless otherwise noted
Dimensions in mm

Fig. 1 — JWD Series

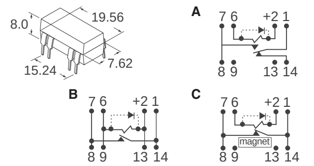

Fig. 2 — T7C Series

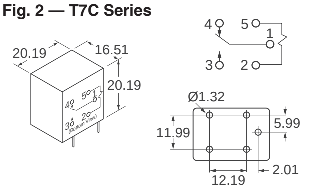

Fig. 3 — T7N Series

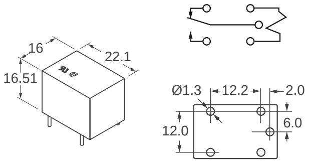

Fig. 4 — T73 Series

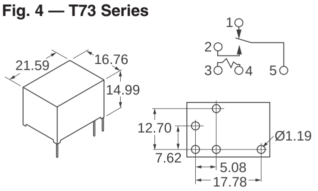

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	Mfg. Part No.
JWD Series											
1A	SPDT	5 VDC	20	0.5	With Diode	Potter & Brumfield	PB688-ND	8.09	7.08	6.41	JWD-172-5
1B	SPST-NO	5 VDC	10	0.5	With Diode	Potter & Brumfield	PB689-ND	4.94	4.33	3.92	JWD-107-5
	SPST-NO	5 VDC	10	0.5	—	Potter & Brumfield	PB692-ND	4.15	3.64	3.29	JWD-107-1
	SPST-NO	12 VDC	10	0.5	With Diode	Potter & Brumfield	PB690-ND	4.94	4.33	3.92	JWD-107-7
	SPST-NO	12 VDC	10	0.5	—	Potter & Brumfield	PB693-ND	3.65	3.20	2.89	JWD-107-3
	SPST-NO	24 VDC	11.6	0.5	With Diode	Potter & Brumfield	PB694-ND	5.30	4.65	4.20	JWD-171-10
1C	DPST-NO	5 VDC	10	0.5	With Diode	Potter & Brumfield	PB691-ND	6.46	5.65	5.12	JWD-171-25
T7C Series — Economical (Ideal for Appliance and Automotive Applications)											
2	SPDT	5 VDC	71.4	12	Standard Profile	Potter & Brumfield	PB335-ND	1.58	1.39	1.26	T7CS5D-05
	SPDT	6 VDC	60	12	Standard Profile	Potter & Brumfield	PB336-ND	1.58	1.39	1.26	T7CS5D-06
	SPDT	12 VDC	30	12	Standard Profile	Potter & Brumfield	PB337-ND	1.58	1.39	1.26	T7CS5D-12
	SPDT	24 VDC	15	12	Standard Profile	Potter & Brumfield	PB338-ND	1.58	1.39	1.26	T7CS5D-24
	SPDT	12VDC	30	12	Standard Profile	Potter & Brumfield	PB441-ND•	1.56	1.37	1.24	T7CV5D-12
T7N Series Power Relay											
3	SPDT	5 VDC	71.5	10	Low Profile	Potter & Brumfield	PB379-ND	1.44	1.26	1.14	T7NS5D1-05
	SPDT	12 VDC	30	10	Low Profile	Potter & Brumfield	PB380-ND	1.44	1.26	1.14	T7NS5D1-12
	SPDT	24 VDC	15	10	Low Profile	Potter & Brumfield	PB381-ND	1.44	1.26	1.14	T7NS5D1-24
	SPDT	48 VDC	7.5	10	Low Profile	Potter & Brumfield	PB382-ND	1.87	1.64	1.49	T7NS5D1-48
T73 Series — Low Profile Relay - Meets 3,500 Volt Surge											
4	SPDT	5 VDC	89	10	UL Class F	Potter & Brumfield	PB364-ND	2.26	1.98	1.79	T73S5D15-05
	SPDT	12 VDC	37.5	10	UL Class F	Potter & Brumfield	PB365-ND	2.26	1.98	1.79	T73S5D15-12
	SPDT	24 VDC	20.9	10	UL Class F	Potter & Brumfield	PB366-ND	2.26	1.98	1.79	T73S5D15-24
T75 Series — Miniature Relay											
5	SPDT	5VDC	42.4	14	—	Potter & Brumfield	PB442-ND	3.38	2.97	2.68	T75S5D112-05
	SPDT	12VDC	18.5	14	—	Potter & Brumfield	PB443-ND	4.73	4.14	3.75	T75S5D112-12
	SPDT	24VDC	10.6	14	—	Potter & Brumfield	PB444-ND	4.06	3.55	3.22	T75S5D112-24
T77 Series Power Relay — Sealed and Semi-sealed											
6	SPST-NO	5 VDC	90	10	Sealed Type	Potter & Brumfield	PB367-ND	1.63	1.43	1.30	T77S1D10-05
	SPST-NO	12 VDC	37.5	10	Sealed Type	Potter & Brumfield	PB368-ND	1.63	1.43	1.30	T77S1D10-12
	SPST-NO	24 VDC	18.75	10	Sealed Type	Potter & Brumfield	PB369-ND	1.63	1.43	1.30	T77S1D10-24
	SPST-NO	24VDC	18.75	10	Vented Type	Potter & Brumfield	PB445-ND•	1.61	1.41	1.28	T77V1D10-24
	SPST-NO	5 VDC	40	3	Sealed Type	Potter & Brumfield	PB370-ND	1.63	1.43	1.30	T77S1D3-05
	SPST-NO	12 VDC	16.7	3	Sealed Type	Potter & Brumfield	PB371-ND	1.63	1.43	1.30	T77S1D3-12
	SPST-NO	24 VDC	8.3	3	Sealed Type	Potter & Brumfield	PB372-ND	1.63	1.43	1.30	T77S1D3-24
T81 Series — High Density Telcom Relay											
7	SPDT	5VDC	89.5	0.5	High Sensitivity	Potter & Brumfield	PB446-ND	3.10	2.71	2.46	T81H5D312-05
	SPDT	12VDC	17.1	0.5	High Sensitivity	Potter & Brumfield	PB740-ND	3.60	3.15	2.85	T81H5D312-12
	SPDT	24VDC	8.6	0.5	High Sensitivity	Potter & Brumfield	PB741-ND	3.10	2.71	2.46	T81H5D312-24
	SPDT	12VDC	37.5	0.5	Standard Sensitivity	Potter & Brumfield	PB447-ND	3.79	3.32	3.01	T81N5D312-12
	SPDT	24VDC	18.75	0.5	Standard Sensitivity	Potter & Brumfield	PB448-ND	3.00	2.63	2.38	T81N5D312-24
V23079 Series — FCC Part 68, High Dielectric Relay											
8	DPDT	5 VDC	28	5	—	Axicom	PB288-ND	2.21	1.94	1.75	V23079A1001B301
	DPDT	12 VDC	11.6	5	—	Axicom	PB289-ND	2.21	1.94	1.75	V23079A1003B301
V23105 Series — Nonpolarized Dip Package Relay											
9	DPDT	5 VDC	30	0.5	High Sensitivity	Axicom	PB383-ND	1.73	1.52	1.37	V23105A5001A201
	DPDT	12 VDC	12.5	0.5	High Sensitivity	Axicom	PB384-ND	1.73	1.52	1.37	V23105A5003A201
	DPDT	24 VDC	6.25	0.5	High Sensitivity	Axicom	PB385-ND	1.85	1.62	1.47	V23105A5005A201
	DPDT	5 VDC	40	0.5	Medium Sensitivity	Axicom	PB386-ND	1.73	1.52	1.37	V23105A5301A201
	DPDT	12 VDC	16.7	0.5	Medium Sensitivity	Axicom	PB387-ND	1.73	1.52	1.37	V23105A5303A201
	DPDT	24 VDC	8.33	0.5	Medium Sensitivity	Axicom	PB388-ND	1.85	1.62	1.47	V23105A5305A201
	DPDT	48 VDC	4.16	0.5	Medium Sensitivity	Axicom	PB389-ND	2.59	2.27	2.06	V23105A5307A201
V23026 Series — Miniature Sealed Relay (Up to 1 Billion Operations!)											
10	SPDT	5 VDC	13.5	1	Thru-Hole Terminal	Axicom	PB282-ND	3.96	3.47	3.14	V23026A1001B201
	SPDT	12 VDC	5.3	1	Thru-Hole Terminal	Axicom	PB283-ND	3.96	3.47	3.14	V23026A1002B201
	SPDT	24 VDC	5.3	1	Thru-Hole Terminal	Axicom	PB284-ND	4.25	3.72	3.37	V23026A1004B201
11	SPDT	5 VDC	16	1	SMT Terminal	Axicom	PB285CT-ND PB285TR-ND	4.34 1086.00/480	3.81	3.44	V23026D1021B201
	SPDT	12 VDC	6.6	1	SMT Terminal	Axicom	PB286CT-ND PB286TR-ND	4.34 1086.00/480	3.81	3.44	V23026D1022B201
	SPDT	24 VDC	5.3	1	SMT Terminal	Axicom	PB287CT-ND PB287TR-ND	4.68 5616.00/2,400	4.10	3.71	V23026D1024B201

• Flux-Tight Version

Fig. 5 — T75 Series

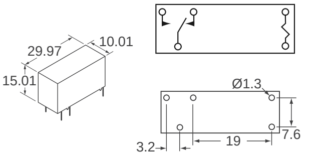

Fig. 6 — T77 Series

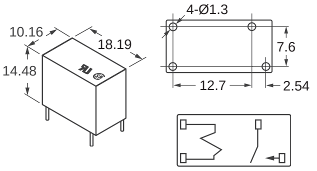

Fig. 7 — T81 Series

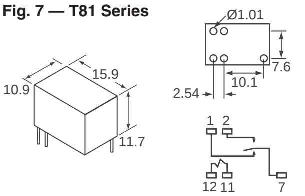

Fig. 8 — V23079 Series

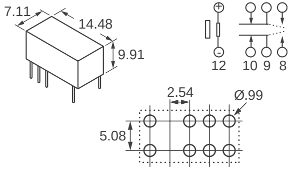

Fig. 9 — V23105 Series

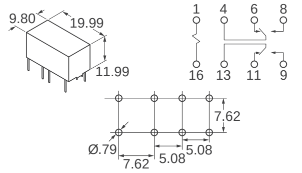

Fig. 10 — V23026 Series (Through Hole)

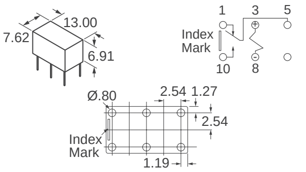

Fig. 11 — V23026 Series (Surface Mount)

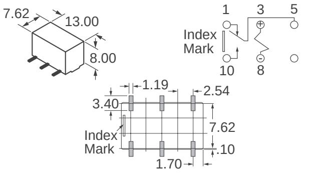

PC Mount and General Purpose Relays

*** All relays are UL, CSA approved***

Mounting hole connection diagrams are all bottom view unless otherwise noted

Dimensions in mm

Fig. 1 — TSC Series

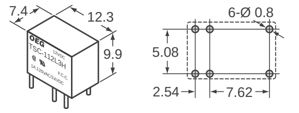

Fig. 2 — PE Series

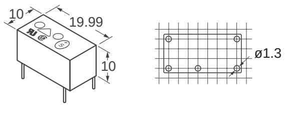

Fig. 3 — RE Series

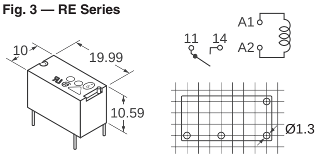

Fig. 4 — PB Series

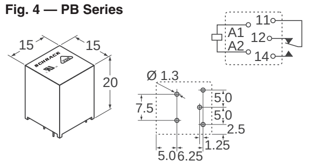

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Mfg. Part No.
						TSC Series — Miniature Sealed Relay							
1	SPDT	12 VDC	12.5	1	PC Mount	Sensitive Coil Input	OEG	PB647-ND	1.61	1.41	1.28	1.01	TSC-112L3H
		24 VDC	6.3	1	PC Mount	Sensitive Coil Input	OEG	PB648-ND	1.78	1.56	1.41	1.11	TSC-124L3H
						PE Series — Miniature Power Relay							
2	SPDT	5 VDC	40	5	PC Mount	—	Schrack	PB353-ND	4.06	3.55	3.22	2.54	PE014005
		12 VDC	16.7	5	PC Mount	—	Schrack	PB354-ND	4.06	3.55	3.22	2.54	PE014012
		24 VDC	8.3	5	PC Mount	—	Schrack	PB355-ND	4.06	3.55	3.22	2.54	PE014024
						RE Series — Lower Profile Power Relay							
3	SPST-NO	5 VDC	40	6	PC Mount	AgCdO	Schrack	PB356-ND	5.09	4.46	4.03	3.18	RE030005
		6 VDC	33	6	PC Mount	AgCdO	Schrack	PB742-ND	5.09	4.46	4.03	3.18	RE030006
		12 VDC	16.7	6	PC Mount	AgCdO	Schrack	PB357-ND	5.09	4.46	4.03	3.18	RE030012
		24 VDC	8.3	6	PC Mount	AgCdO	Schrack	PB358-ND	5.09	4.46	4.03	3.18	RE030024
		48 VDC	4.1	6	PC Mount	AgCdO	Schrack	PB743-ND	6.96	6.09	5.51	4.35	RE030048
		5 VDC	40	6	PC Mount	Gold Over Nickel	Schrack	PB744-ND	5.09	4.46	4.03	3.18	RE032005
		6 VDC	33	6	PC Mount	Gold Over Nickel	Schrack	PB745-ND	5.66	4.96	4.49	3.54	RE032006
		12 VDC	16.7	6	PC Mount	Gold Over Nickel	Schrack	PB746-ND	6.19	5.42	4.91	3.87	RE032012
		24 VDC	8.3	6	PC Mount	Gold Over Nickel	Schrack	PB747-ND	6.24	5.46	4.94	3.90	RE032024
		48 VDC	4.1	6	PC Mount	Gold Over Nickel	Schrack	PB748-ND	6.00	5.25	4.75	3.75	RE032048
						PB Series - Cube Power Relay							
4	SPST	5 VDC	71.4	10	PC Mount	Ag90Ni10	Schrack	PB766-ND	1.03	.91	.82	.65	PB134005
	SPST	6 VDC	60	10	PC Mount	Ag90Ni10	Schrack	PB767-ND	1.03	.91	.82	.65	PB134006
	SPST	12 VDC	30	10	PC Mount	Ag90Ni10	Schrack	PB768-ND	1.10	.97	.88	.69	PB134012
	SPST	24 VDC	15	10	PC Mount	Ag90Ni10	Schrack	PB769-ND	1.18	1.03	.94	.74	PB134024
	SPDT	24 VDC	15	10	PC Mount	Ag90Ni10	Schrack	PB765-ND	1.18	1.03	.94	.74	PB114024

Fig. 1 — RT Series (RY Series)

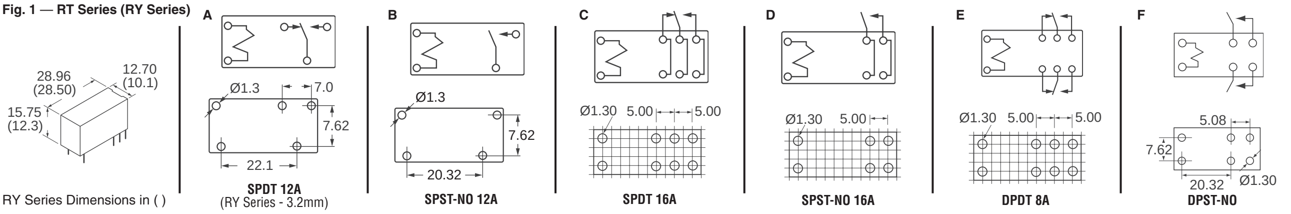

A: SPDT 12A (RY Series - 3.2mm) B: SPST-NO 12A C: SPDT 16A D: SPST-NO 16A E: DPDT 8A F: DPST-NO

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	Mfg. Part No.
					RT Series — Low Profile Power PCB Relay						
1A	SPDT	5 VDC	80	12	Sealed Case	Potter & Brumfield	PB359-ND	2.09	1.83	1.66	RTB14005F
	SPDT	12 VDC	33.3	12	Sealed Case	Potter & Brumfield	PB360-ND	1.66	1.45	1.32	RTB14012F
	SPDT	12VDC	33.3	12	Sealed Case	Potter & Brumfield	PB449-ND•	3.31	2.90	2.63	RT114012F
	SPDT	24 VDC	16.7	12	Sealed Case	Potter & Brumfield	PB361-ND	1.66	1.45	1.32	RTB14024F
1B	SPST-NO	12 VDC	33.3	12	Sealed Case	Potter & Brumfield	PB362-ND	3.31	2.90	2.63	RTB34012F
	SPST-NO	24 VDC	16.7	12	Sealed Case	Potter & Brumfield	PB363-ND	3.07	2.69	2.44	RTB34024F
1C	SPDT	5 VDC	80	16	Sealed Case	Potter & Brumfield	PB291-ND	2.66	2.34	2.11	RTD14005F
	SPDT	12 VDC	33.3	16	Sealed Case	Potter & Brumfield	PB292-ND	2.90	2.55	2.30	RTD14012F
	SPDT	24 VDC	16.7	16	Sealed Case	Potter & Brumfield	PB668-ND	2.90	2.55	2.30	RTD14024F
1D	SPST-NO	12 VDC	33.3	16	Sealed Case	Potter & Brumfield	PB293-ND	3.31	2.90	2.63	RTD34012F
	SPST-NO	24 VDC	16.7	16	Sealed Case	Potter & Brumfield	PB294-ND	3.31	2.90	2.63	RTD34024F
1E	DPDT	5 VDC	80	8	Sealed Case	Potter & Brumfield	PB295-ND	2.69	2.36	2.13	RTE24005F
	DPDT	12 VDC	33.3	8	Sealed Case	Potter & Brumfield	PB296-ND	2.93	2.57	2.32	RTE24012F
	DPDT	24 VDC	16.7	8	Sealed Case	Potter & Brumfield	PB297-ND	2.35	2.06	1.87	RTE24024F
1F	DPST-NO	12VDC	33.3	8	Sealed Case	Potter & Brumfield	PB450-ND	1.99	1.75	1.58	RTE44012F
					RY Series — Miniature Sealed PCB Relay						
1A	SPDT	5 VDC	44.0	8	Sealed Case	Schrack	PB649-ND	3.46	3.03	2.74	RY610005
	SPDT	12 VDC	19.3	8	Sealed Case	Schrack	PB650-ND	3.46	3.03	2.74	RY610012
	SPDT	24 VDC	10.2	8	Sealed Case	Schrack	PB651-ND	3.46	3.03	2.74	RY610024

- Flux-Tight Version

Fig.	Description	Use With Series	Digi-Key Part No.	Price Each 1	25	50	100	Potter & Brumfield Part No.
	RT and RY Sockets and Accessories							
1	DIN Rail Terminal Socket for SP 3.5mm Pin Spacing, 10A	RT	PB524-ND	6.94	6.07	5.50	4.34	RT78624
1	DIN Rail Terminal Socket for SP-DP 5mm Pin Spacing, 10A	RT	PB666-ND	7.44	6.51	5.89	4.65	RT78625
1	DIN Rail Terminal Socket for SP-DP 5mm Pin Spacing, 12A	RT	PB665-ND	7.87	6.89	6.24	4.92	RT78626
—	Relay Retaining Clip for RP78XXX Din Rail Sockets, RT Relays	RT	PB749-ND	.79	.70	.63	.50	RT16016
1	Din Rail “Module Option” Socket for SP 3.5mm Pin Spacing	RT	PB779-ND	3.02	2.65	2.40	1.89	RT78724
1	Din Rail “Module Option” Socket for SP and DP 5mm Pin Spacing	RT	PB780-ND	3.89	3.41	3.08	2.43	RT78726
—	Protection Module 12-24VDC Red LED with Protection Diode	RT	PB750-ND	5.71	5.00	4.53	3.57	RPML0024
—	Indicator Module 12-48VAC/DC Red LED	RT	PB751-ND	7.42	6.49	5.88	4.64	RPML0524
—	Indicator Module 110-230VAC Red LED	RT	PB752-ND	7.42	6.49	5.88	4.64	RPML0730
2	PCB Mount Socket for 3.5mm Pin Spacing, 10A	RT	PB667-ND	2.40	2.10	1.90	1.50	RP78601
2	PCB Mount Socket for 5mm Pin Spacing, 10A	RT	PB525-ND	2.40	2.10	1.90	1.50	RP78602
—	Relay Retaining Clip for PC Mount Sockets, RT Series	RT	PB778-ND	.31	.28	.25	.20	RT16041
—	Relay Retaining Clip for PC Mount Sockets, RY Series	RY	PB777-ND	.36	.32	.29	.23	RP16100

Fig. 1

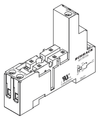

Fig. 2

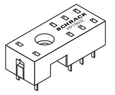

(Continued)

PC Mount and General Purpose Relays *(Cont.)*

Dimensions in mm

Fig. 1 — K10 Series

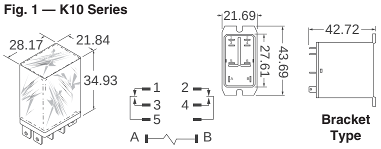

Fig. 2 — R10 Series

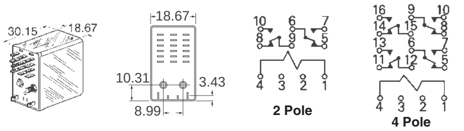

Fig. 3 — KH Series

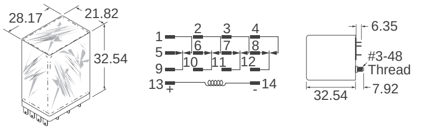

Fig. 4 — PT Series

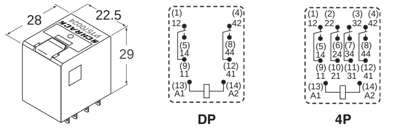

Fig. 5 — KUP Series

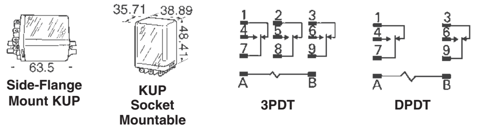

Fig. 6 — KRP/KRPA/KBP Series

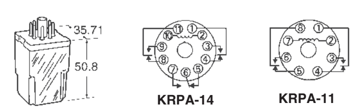

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Mfg. Part No.
K10 Series — General Purpose Miniature Power Relay													
1	DPDT	12 VAC	100	15	.187 (4.75) QC	—	Potter & Brumfield	PB319-ND	8.86	7.75	7.02	5.54	K10P-11A15-12
		24 VAC	52	15	.187 (4.75) QC	—	Potter & Brumfield	PB320-ND	8.86	7.75	7.02	5.54	K10P-11A15-24
		120 VAC	11	15	.187 (4.75) QC	—	Potter & Brumfield	PB321-ND	8.86	7.75	7.02	5.54	K10P-11A15-120
		6 VDC	150	15	.187 (4.75) QC	—	Potter & Brumfield	PB323-ND	8.86	7.75	7.02	5.54	K10P-11D15-6
		12 VDC	75	15	.187 (4.75) QC	—	Potter & Brumfield	PB324-ND	8.86	7.75	7.02	5.54	K10P-11D15-12
		24 VDC	37	15	.187 (4.75) QC	—	Potter & Brumfield	PB325-ND	8.86	7.75	7.02	5.54	K10P-11D15-24
		110 VDC	10	15	.187 (4.75) QC	—	Potter & Brumfield	PB326-ND	8.86	7.75	7.02	5.54	K10P-11D15-110
		12 VDC	75	15	PC Mount	—	Potter & Brumfield	PB327-ND	8.86	7.75	7.02	5.54	K10P-11D55-12
		24 VDC	37	15	PC Mount	—	Potter & Brumfield	PB328-ND	8.86	7.75	7.02	5.54	K10P-11D55-24
		110 VDC	10	15	PC Mount	—	Potter & Brumfield	PB451-ND	8.86	7.75	7.02	5.54	K10P-11D55-110
		12 VDC	75	15	.187 (4.75) QC	With Bracket	Potter & Brumfield	PB329-ND	9.14	8.01	7.24	5.72	K10P-11DT5-12
		24 VDC	37	15	.187 (4.75) QC	With Bracket	Potter & Brumfield	PB330-ND	9.14	8.01	7.24	5.72	K10P-11DT5-24
		120 VAC	11	15	.187 (4.75) QC	With Bracket	Potter & Brumfield	PB322-ND	9.14	8.01	7.24	5.72	K10P-11AT5-120
R10 Series — General Purpose Power Relay													
2	DPDT	5 VDC	20	3	Plug-In	—	Potter & Brumfield	PB776-ND	33.36	29.19	26.41	20.85	R10S-E1Y2-J5.0K
		6 VDC	115	3	Plug-In	—	Potter & Brumfield	PB116-ND	16.15	14.14	12.79	10.10	R10-E1Y2-V52
		12 VDC	64	3	Plug-In	—	Potter & Brumfield	PB117-ND	16.15	14.14	12.79	10.10	R10-E1Y2-V185
		24 VDC	34	3	Plug-In	—	Potter & Brumfield	PB118-ND	16.15	14.14	12.79	10.10	R10-E1Y2-V700
		24 VDC	55.8	3	Plug-In	—	Potter & Brumfield	PB774-ND	15.67	13.72	12.41	9.80	R10-E1Y2-J1.0K
		24 VDC	55.8	3	Plug-In	—	Potter & Brumfield	PB770-ND	22.37	19.58	17.71	13.98	R10-E1P2-V700
		48 VDC	19	3	Plug-In	—	Potter & Brumfield	PB119-ND	16.15	14.14	12.79	10.10	R10-E1Y2-V2.5K
	4PDT	6 VDC	115	3	Plug-In	—	Potter & Brumfield	PB120-ND	17.30	15.15	13.70	10.82	R10-E1Y4-V52
		12 VDC	64	3	Plug-In	—	Potter & Brumfield	PB121-ND	17.30	15.15	13.70	10.82	R10-E1Y4-V185
		24 VDC	34	3	Plug-In	—	Potter & Brumfield	PB122-ND	17.30	15.15	13.70	10.82	R10-E1Y4-V700
		48 VDC	19	3	Plug-In	—	Potter & Brumfield	PB123-ND	17.30	15.15	13.70	10.82	R10-E1Y4-V2.5K
		24 VDC	34	7.5	Plug-In	—	Potter & Brumfield	PB772-ND	26.78	23.44	21.21	16.74	R10-E1W4-V700
	DPDT	6 VDC	115	5	Plug-In	—	Potter & Brumfield	PB124-ND	15.82	13.84	12.53	9.89	R10-E1X2-V52
		12 VDC	64	5	Plug-In	—	Potter & Brumfield	PB125-ND	15.82	13.84	12.53	9.89	R10-E1X2-V185
		24 VDC	34	5	Plug-In	—	Potter & Brumfield	PB126-ND	15.82	13.84	12.53	9.89	R10-E1X2-V700
		48 VDC	19	5	Plug-In	—	Potter & Brumfield	PB127-ND	15.82	13.84	12.53	9.89	R10-E1X2-V2.5K
		115 VAC	9000	5	Plug-In	—	Potter & Brumfield	PB598-ND	30.53	26.72	24.17	19.08	R10-E1X2-115V
		24 VDC	34	7.5	Plug-In	—	Potter & Brumfield	PB454-ND	17.06	14.94	13.51	10.67	R10-E1W2-V700
		12 VDC	64	7.5	Plug-In	—	Potter & Brumfield	PB771-ND	17.06	14.94	13.51	10.67	R10-E1W2-V185
	4PDT	24 VDC	34	5	PC Mount	—	Potter & Brumfield	PB452-ND	15.82	13.84	12.53	9.89	R10-E2X2-V700
		12 VDC	64	5	Plug-In	—	Potter & Brumfield	PB129-ND	18.48	16.17	14.63	11.55	R10-E1X4-V185
		24 VDC	34	5	Plug-In	—	Potter & Brumfield	PB130-ND	18.48	16.17	14.63	11.55	R10-E1X4-V700
		48 VDC	19	5	Plug-In	—	Potter & Brumfield	PB131-ND	18.48	16.17	14.63	11.55	R10-E1X4-V2.5K
		24 VDC	34	5	Plug-In	—	Potter & Brumfield	PB453-ND	26.59	23.27	21.06	16.62	R10-E1M4-V700
		115 VAC	9000	5	Plug-In	—	Potter & Brumfield	PB599-ND	39.70	34.74	31.43	24.81	R10-E1X4-115V
	6PDT	12 VDC	133	5	Plug-In	—	Potter & Brumfield	PB773-ND	32.52	28.46	25.75	20.33	R10-E1X6-V90
		24 VDC	430	5	Plug-In	—	Potter & Brumfield	PB600-ND	32.52	28.46	25.75	20.33	R10-E1X6-V430
		24 VDC	430	2	Plug-In	—	Potter & Brumfield	PB775-ND	34.13	29.87	27.02	21.33	R10-E1Z6-V430
KH Series — General Purpose Low Cost Power Relay													
3	DPDT	12 VDC	75	5	Plug-In	—	Potter & Brumfield	PB455-ND	7.87	6.89	6.24	4.92	KHAU-11D12-12
		24 VDC	37	3	Plug-In	—	Potter & Brumfield	PB730-ND	7.87	6.89	6.24	4.92	KHAU-11D11-24
		120 VAC	—	5	Plug-In	—	Potter & Brumfield	PB729-ND	8.38	7.33	6.64	5.24	KHAU-11A11-120
	4PDT	12 VAC	—	3	Plug-In	—	Potter & Brumfield	PB731-ND	7.87	6.89	6.24	4.92	KHAU-17A11-12
		24 VAC	—	3	Plug-In	—	Potter & Brumfield	PB139-ND	7.87	6.89	6.24	4.92	KHAU-17A11-24
		120 VAC	—	3	Plug-In	—	Potter & Brumfield	PB604-ND	31.49	27.56	24.93	19.68	KHU-17A11-120
		120 VAC	—	3	Plug-In	—	Potter & Brumfield	PB140-ND	8.86	7.75	7.02	5.54	KHAU-17A11-120
		120 VAC	—	3	Plug-In	With Indicator Light	Potter & Brumfield	PB141-ND	10.82	9.48	8.57	6.77	KHAU-17A11N-120
		120 VAC	—	5	Plug-In	—	Potter & Brumfield	PB456-ND	7.87	6.89	6.24	4.92	KHAU-17A12-120
		24 VAC	—	1	Plug-In	Gold Over Silver Contact	Potter & Brumfield	PB457-ND	11.81	10.34	9.35	7.38	KHAU-17A16-24
		120 VAC	—	1	Plug-In	Gold Over Silver Contact	Potter & Brumfield	PB601-ND	15.43	13.51	12.22	9.65	KHAU-17A16-120
		120VAC	—	1	Plug-In	Gold Over Silver Contact	Potter & Brumfield	PB732-ND	9.84	8.61	7.79	6.15	KHAU-17A18-120
		12 VDC	75	3	Plug-In	—	Potter & Brumfield	PB605-ND	9.84	8.61	7.79	6.15	KHU-17D11-12
		24 VDC	37	3	Plug-In	—	Potter & Brumfield	PB606-ND	9.84	8.61	7.79	6.15	KHU-17D11-24
		12 VDC	75	3	Plug-In	—	Potter & Brumfield	PB142-ND	7.87	6.89	6.24	4.92	KHAU-17D11-12
		24 VDC	37	3	Plug-In	—	Potter & Brumfield	PB143-ND	7.87	6.89	6.24	4.92	KHAU-17D11-24
		48 VDC	18	3	Plug-In	—	Potter & Brumfield	PB734-ND	8.86	7.75	7.02	5.54	KHAU-17D11-48
		120 VAC	—	3	Plug-In	—	Potter & Brumfield	PB733-ND	8.86	7.75	7.02	5.54	KHAU-17D11-110
		12 VDC	75	5	Plug-In	—	Potter & Brumfield	PB602-ND	7.87	6.89	6.24	4.92	KHAU-17D12-12
		24 VDC	37	5	Plug-In	—	Potter & Brumfield	PB458-ND	7.87	6.89	6.24	4.92	KHAU-17D12-24
		12 VDC	75	1	Plug-In	Gold Over Silver Contact	Potter & Brumfield	PB735-ND	14.16	12.39	11.21	8.85	KHAU-17D16-12
		24 VDC	37	1	Plug-In	Gold Over Silver Contact	Potter & Brumfield	PB603-ND	14.16	12.39	11.21	8.85	KHAU-17D16-24
PT Series													
4	DPDT	24 VDC	30.8	12	Plug-In	With Indicator and Test	Schrack	PB717-ND	6.12	5.36	4.85	3.83	PT270024
		115 VAC	—	12	Plug-In	With Indicator and Test	Schrack	PB718-ND	6.43	5.63	5.10	4.02	PT270615
		230 VAC	—	12	Plug-In	With Indicator and Test	Schrack	PB719-ND	7.25	6.35	5.74	4.53	PT270730
	4PDT	24 VDC	—	6	Plug-In	With Indicator and Test	Schrack	PB720-ND	7.39	6.47	5.86	4.62	PT570024
		115 VAC	—	6	Plug-In	With Indicator and Test	Schrack	PB721-ND	7.58	6.64	6.01	4.74	PT570615
		230 VAC	—	6	Plug-In	With Indicator and Test	Schrack	PB722-ND	8.14	7.12	6.45	5.09	PT570730
	DIN Rail Socket with Screw Terminal, DP							PB723-ND	2.71	2.38	2.15	1.70	PT78720
	DIN Rail Socket with Screw Terminal, 4 Pole							PB724-ND	3.43	3.01	2.72	2.15	PT78740
	Plastic Retainer Clip for 29mm Relays							PB725-ND	.48	.42	.38	.30	PT17016
	PCB Mount Socket with Mounting Ears for DP, 3P and 4P							PB726-ND	2.02	1.77	1.60	1.26	PT78600
	PCB Mount Socket without Mounting Ears for DP, 3P and 4P							PB727-ND	1.90	1.66	1.51	1.19	PT78604
	Metal Retaining Clip for PCB Mount Sockets							PB728-ND	.58	.51	.46	.36	PT28802

(Continued)

Dimensions in mm

Fig. 7 — T90 Series

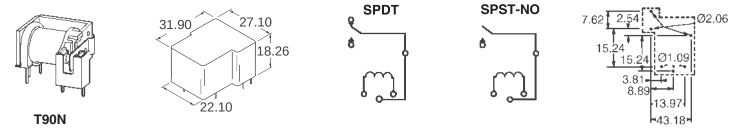

Fig. 8 — T9A Series

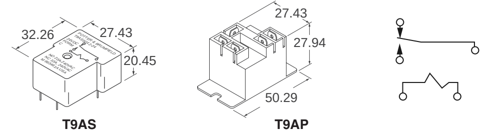

Fig. 9 — T92 Series

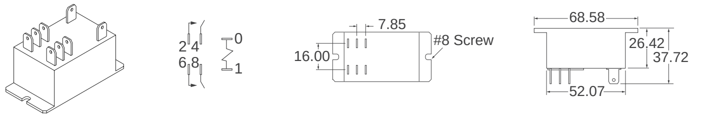

Fig. 10 — PRD Series

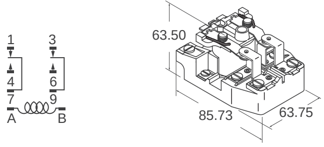

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Mfg. Part No.
						KU Series — Enclosed Relays							
5	DPDT	24 VAC	—	10	.187 (4.75) QC	—	Potter & Brumfield	PB151-ND	11.81	10.34	9.35	7.38	KUP-11A15-24
		120 VAC	—	10	.187 (4.75) QC	—	Potter & Brumfield	PB152-ND	11.81	10.34	9.35	7.38	KUP-11A15-120
		12 VDC	100	10	.187 (4.75) QC	—	Potter & Brumfield	PB153-ND	11.81	10.34	9.35	7.38	KUP-11D15-12
		24 VDC	51	10	.187 (4.75) QC	—	Potter & Brumfield	PB154-ND	11.81	10.34	9.35	7.38	KUP-11D15-24
		110 VDC	11	10	.187 (4.75) QC	—	Potter & Brumfield	PB610PB-ND	11.81	10.34	9.35	7.38	KUP-11D15-110
		12 VDC	100	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB155-ND	11.33	9.92	8.97	7.08	KUP-11D55-12
		24 VDC	51	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB156-ND	11.33	9.92	8.97	7.08	KUP-11D55-24
		24 VAC	—	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB222-ND	11.81	10.34	9.35	7.38	KUP-11A55-24
		120 VAC	—	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB463-ND	12.31	10.78	9.75	7.70	KUP-11A55-120
	DPST	24 VDC	75	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB223-ND	18.50	16.20	14.65	11.57	KUGP-7D55-24
	3PDT	120 VAC	24	5	.187 (4.75) QC	—	Potter & Brumfield	PB611-ND	13.78	12.06	10.91	8.61	KUP-14A11-120
		24 VAC	—	10	.187 (4.75) QC	—	Potter & Brumfield	PB157-ND	13.78	12.06	10.91	8.61	KUP-14A15-24
		120 VAC	—	10	.187 (4.75) QC	—	Potter & Brumfield	PB158-ND	13.78	12.06	10.91	8.61	KUP-14A15-120
		240 VAC	12	10	.187 (4.75) QC	—	Potter & Brumfield	PB612-ND	14.26	12.48	11.29	8.91	KUP-14A15-240
		12 VDC	100	10	.187 (4.75) QC	—	Potter & Brumfield	PB159-ND	12.79	11.20	10.13	8.00	KUP-14D15-12
		24 VDC	51	10	.187 (4.75) QC	—	Potter & Brumfield	PB160-ND	12.79	11.20	10.13	8.00	KUP-14D15-24
		110 VDC	11	10	.187 (4.75) QC	—	Potter & Brumfield	PB613-ND	13.30	11.64	10.53	8.31	KUP-14D15-110
		24 VAC	—	10	.187 (4.75) QC	With Indicator Light	Potter & Brumfield	PB464-ND	14.76	12.92	11.69	9.23	KUP-14A35-24
		24 VDC	51	10	.187 (4.75) QC	With Indicator Light	Potter & Brumfield	PB465-ND	14.76	12.92	11.69	9.23	KUP-14D35-24
		120 VAC	—	10	.187 (4.75) QC	With Indicator Light	Potter & Brumfield	PB161-ND	14.76	12.92	11.69	9.23	KUP-14A35-120
		120 VAC	—	10	.187 (4.75) QC	With Test Button	Potter & Brumfield	PB162-ND	15.74	13.78	12.47	9.84	KUP-14A45-120
		24 VAC	—	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB163-ND	14.26	12.48	11.29	8.91	KUP-14A55-24
		120 VAC	—	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB164-ND	14.26	12.48	11.29	8.91	KUP-14A55-120
		12 VDC	100	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB614-ND	13.30	11.64	10.53	8.31	KUP-14D55-12
		24 VDC	51	10	.187 (4.75) QC	Side Flange	Potter & Brumfield	PB672-ND	13.30	11.64	10.53	8.31	KUP-14D55-24
	SPST-NO	24 VDC	51	10	.187 (4.75) QC	—	Potter & Brumfield	PB466-ND	17.64	15.44	13.97	11.03	KUEP-3D15-24
		110 VDC	11	10	.187 (4.75) QC	—	Potter & Brumfield	PB616-ND	16.49	14.43	13.06	10.31	KUEP-3D15-110
	DPDT	120 VAC	24	10	.187 (4.75) QC	—	Potter & Brumfield	PB615-ND	21.86	19.14	17.31	13.67	KUEP-11A15-120
		24 VDC	51	10	.187 (4.75) QC	—	Potter & Brumfield	PB467-ND	19.99	17.50	15.83	12.50	KUEP-11D15-24
		120 VAC	24	15	.187 (4.75) QC	—	Potter & Brumfield	PB617-ND	14.23	12.46	11.27	8.90	KUMP-11A18-120
		24 VDC	51	15	.187 (4.75) QC	—	Potter & Brumfield	PB618-ND	13.20	11.55	10.45	8.25	KUMP-11D18-24
	3PDT	120 VAC	24	15	.187 (4.75) QC	—	Potter & Brumfield	PB619-ND	16.27	14.24	12.89	10.17	KUMP-14A18-120
		24 VDC	51	15	.187 (4.75) QC	—	Potter & Brumfield	PB468-ND	15.24	13.34	12.07	9.53	KUMP-14D18-24
	DPDT	120 VAC	—	10	.187 (4.75) QC	Top Flange	Potter & Brumfield	PB469-ND	21.79	19.07	17.26	13.62	KUIP-11AT5-120
		24 VAC	—	20	.250 (6.35) QC	Side Flange	Potter & Brumfield	PB470-ND	14.81	12.96	11.73	9.26	KUHP-11A51-24
		120 VAC	—	20	.250 (6.35) QC	Side Flange	Potter & Brumfield	PB620-ND	14.81	12.96	11.73	9.26	KUHP-11A51-120
		120 VAC	—	20	.250 (6.35) QC	Top Flange	Potter & Brumfield	PB621-ND	15.31	13.40	12.13	9.57	KUHP-11AT1-120
		12 VDC	120	20	.250 (6.35) QC	Side Flange	Potter & Brumfield	PB622-ND	14.30	12.52	11.33	8.94	KUHP-11D51-12
		24 VDC	472	20	.250 (6.35) QC	Side Flange	Potter & Brumfield	PB623-ND	14.30	12.52	11.33	8.94	KUHP-11D51-24
		24 VDC	472	20	.250 (6.35) QC	Top Flange	Potter & Brumfield	PB624-ND	14.30	12.52	11.33	8.94	KUHP-11DT1-24
		12 VDC	120	10	.187 (4.75) QC	Latching Relay	Potter & Brumfield	PB625-ND	55.10	48.22	43.63	34.44	KUL-11D15D-12
		24 VDC	51	10	.187 (4.75) QC	Latching Relay	Potter & Brumfield	PB471-ND	55.10	48.22	43.63	34.44	KUL-11D15D-24
		120 VAC	—	10	.187 (4.75) QC	Latching Relay	Potter & Brumfield	PB472-ND	42.41	37.11	33.58	26.51	KUL-11A15S-120
						KRP/KRPA/KBP Series — Octal Plug Termination General Purpose Relay							
6	SPST-NO	120 VAC	17.5	20	8 Pin Octal	—	Potter & Brumfield	PB626-ND	55.90	48.91	44.26	34.94	KRP-3AH-120
	DPDT	110 VDC	11.5	10	8 Pin Octal	—	Potter & Brumfield	PB473-ND	59.11	51.73	46.80	36.95	KRP-11DG-110
		120 VAC	—	10	8 Pin Octal	—	Potter & Brumfield	PB474-ND	57.24	50.09	45.32	35.78	KRP-11AG-120
	SPDT	120 VAC	17.5	10	8 Pin Octal	—	Potter & Brumfield	PB637-ND	21.65	18.95	17.14	13.53	KRPA-5AG-120
		24 VDC	51	10	8 Pin Octal	—	Potter & Brumfield	PB638-ND	19.68	17.22	15.58	12.30	KRPA-5DG-24
	DPDT	12 VAC	168	10	8 Pin Octal	—	Potter & Brumfield	PB628-ND	14.04	12.29	11.12	8.78	KRPA-11AG-12
		24 VAC	—	10	8 Pin Octal	—	Potter & Brumfield	PB167-ND	14.04	12.29	11.12	8.78	KRPA-11AG-24
		120 VAC	—	10	8 Pin Octal	—	Potter & Brumfield	PB168-ND	15.00	13.13	11.88	9.38	KRPA-11AG-120
		240 VAC	8.75	10	8 Pin Octal	—	Potter & Brumfield	PB629-ND	15.98	13.99	12.66	9.99	KRPA-11AG-240
		12 VDC	100	10	8 Pin Octal	—	Potter & Brumfield	PB169-ND	14.04	12.29	11.12	8.78	KRPA-11DG-12
		24 VDC	51	10	8 Pin Octal	—	Potter & Brumfield	PB170-ND	14.04	12.29	11.12	8.78	KRPA-11DG-24
		48 VDC	26.6	10	8 Pin Octal	—	Potter & Brumfield	PB633-ND	15.00	13.13	11.88	9.38	KRPA-11DG-48
		110 VDC	11.5	10	8 Pin Octal	—	Potter & Brumfield	PB476-ND	15.00	13.13	11.88	9.38	KRPA-11DG-110
		24 VAC	84	10	8 Pin Octal	With Indicator Light	Potter & Brumfield	PB630-ND	14.50	12.69	11.48	9.06	KRPA-11AN-24
		120 VAC	—	10	8 Pin Octal	With Indicator Light	Potter & Brumfield	PB175-ND	15.48	13.55	12.26	9.68	KRPA-11AN-120
		240 VAC	8.75	10	8 Pin Octal	With Indicator Light	Potter & Brumfield	PB631-ND	16.46	14.41	13.04	10.29	KRPA-11AN-240
		12 VDC	100	10	8 Pin Octal	With Indicator Light	Potter & Brumfield	PB634-ND	14.50	12.69	11.48	9.06	KRPA-11DN-12
		24 VDC	51	10	8 Pin Octal	With Indicator Light	Potter & Brumfield	PB475-ND	14.50	12.69	11.48	9.06	KRPA-11DN-24
		120 VAC	17.5	5	8 Pin Octal	Silver Contact	Potter & Brumfield	PB632-ND	15.00	13.13	11.88	9.38	KRPA-11AY-120
		24 VDC	51	5	8 Pin Octal	—	Potter & Brumfield	PB635-ND	14.04	12.29	11.12	8.78	KRPA-11DY-24
	3PDT	24 VAC	—	10	11 Pin Octal	—	Potter & Brumfield	PB171-ND	15.48	13.55	12.26	9.68	KRPA-14AG-24
		120 VAC	—	10	11 Pin Octal	—	Potter & Brumfield	PB172-ND	16.46	14.41	13.04	10.29	KRPA-14AG-120
		12 VDC	100	10	11 Pin Octal	—	Potter & Brumfield	PB173-ND	15.74	13.78	12.47	9.84	KRPA-14DG-12
		24 VDC	51	10	11 Pin Octal	—	Potter & Brumfield	PB174-ND	15.74	13.78	12.47	9.84	KRPA-14DG-24
		110 VDC	11.5	10	11 Pin Octal	—	Potter & Brumfield	PB673-ND	17.71	15.50	14.03	11.07	KRPA-14DG-110
		120 VAC	—	10	11 Pin Octal	With Indicator Light	Potter & Brumfield	PB176-ND	16.97	14.85	13.44	10.61	KRPA-14AN-120
		24 VDC	51	10	11 Pin Octal	With Indicator Light	Potter & Brumfield	PB636-ND	16.25	14.22	12.87	10.16	KRPA-14DN-24
	DPDT	120 VAC	—	10	11 Pin Octal	Latching Relay	Potter & Brumfield	PB627-ND	185.83	162.61	147.12	116.15	KBP-11AG-120
						T90 Series — Low Cost PC Mount Power Relay							
7	SPST-NO	12 VDC	77	30	PC Mount	—	Potter & Brumfield	PB104-ND	2.28	2.00	1.81	1.43	T90N1D12-12
		24 VDC	36	30	PC Mount	—	Potter & Brumfield	PB105-ND	2.33	2.04	1.85	1.46	T90N1D12-24
	SPDT	12 VDC	77	20	PC Mount	—	Potter & Brumfield	PB107-ND	2.38	2.08	1.89	1.49	T90N5D12-12
		24 VDC	36	20	PC Mount	—	Potter & Brumfield	PB108-ND	2.42	2.13	1.92	1.52	T90N5D12-24
	Dust Cover for Open-Style T90 Series (Snaps onto Relay)							PB216-ND	.77	.68	.61	.48	35C620A

(Continued)

PC Mount and General Purpose Relays *(Cont.)*

Dimensions in mm

Fig. 11 —
S86R,
S87R Series

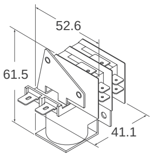

Fig. 12 —
S89R Series

Potter & Brumfield S89 Series relay features a simple pulse latch/unlatch function (impulse) without the need to reverse polarity or continuously energize the coil.

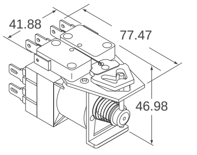

Fig. 13 —
P25, P30, P40
Series

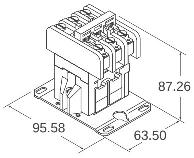

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Mfg. Part No.
7	SPST-NO	5 VDC	185	30	PC Mount	—	Potter & Brumfield	PB109-ND	2.62	2.29	2.08	1.64	T90S1D12-5
		12 VDC	77	30	PC Mount	—	Potter & Brumfield	PB110-ND	2.69	2.36	2.13	1.68	T90S1D12-12
		24 VDC	36	30	PC Mount	—	Potter & Brumfield	PB111-ND	2.69	2.36	2.13	1.68	T90S1D12-24
	SPDT	5 VDC	185	20	PC Mount	—	Potter & Brumfield	PB113-ND	2.62	2.29	2.08	1.64	T90S5D12-5
		12 VDC	77	20	PC Mount	—	Potter & Brumfield	PB114-ND	2.69	2.36	2.13	1.68	T90S5D12-12
		24 VDC	36	20	PC Mount	—	Potter & Brumfield	PB115-ND	2.69	2.36	2.13	1.68	T90S5D12-24
T9A Series — Low Cost Industrial Relays													
8	SPST-NO	12 VDC	83	30	PC Mount	—	Potter & Brumfield	PB302-ND	2.69	2.36	2.13	1.68	T9AS1D12-12
		24 VDC	42	30	PC Mount	—	Potter & Brumfield	PB303-ND	2.69	2.36	2.13	1.68	T9AS1D12-24
		12 VDC	83	30	PC Mount	With .250" QC Term.	Potter & Brumfield	PB304-ND	2.88	2.52	2.28	1.80	T9AS1D22-12
		24 VDC	42	30	PC Mount	With .250" QC Term.	Potter & Brumfield	PB305-ND	2.88	2.52	2.28	1.80	T9AS1D22-24
	SPDT	12 VDC	83	20	PC Mount	—	Potter & Brumfield	PB306-ND	2.09	1.83	1.66	1.31	T9AS5D12-12
		24 VDC	42	20	PC Mount	—	Potter & Brumfield	PB307-ND	2.74	2.40	2.17	1.71	T9AS5D12-24
		12 VDC	83	20	PC Mount	With .250" QC Term.	Potter & Brumfield	PB308-ND	2.88	2.52	2.28	1.80	T9AS5D22-12
		24 VDC	42	20	PC Mount	With .250" QC Term.	Potter & Brumfield	PB309-ND	2.88	2.52	2.28	1.80	T9AS5D22-24
		12 VDC	83	20	.250 (6.35) QC	Chassis Mount	Potter & Brumfield	PB310-ND	3.29	2.88	2.61	2.06	T9AP5D52-12
		24 VDC	42	20	.250 (6.35) QC	Chassis Mount	Potter & Brumfield	PB311-ND	3.29	2.88	2.61	2.06	T9AP5D52-24
T92 Series — Power Relays with Quick Connect Terminals, Sealed and Unsealed													
9	DPST-NO	12 VDC	139	30	PC Mount	Sealed Case	Potter & Brumfield	PB481-ND	9.79	8.57	7.76	6.12	T92S7D12-12
		24 VDC	68	30	PC Mount	Sealed Case	Potter & Brumfield	PB482-ND	9.79	8.57	7.76	6.12	T92S7D12-24
		240 VAC	—	30	PC Mount	Sealed Case	Potter & Brumfield	PB483-ND	12.17	10.65	9.64	7.61	T92S7A12-240
		12 VDC	139	30	PC Mount	Unsealed Case	Potter & Brumfield	PB484-ND	9.19	8.05	7.28	5.75	T92P7D12-12
		24 VDC	68	30	PC Mount	Unsealed Case	Potter & Brumfield	PB485-ND	9.19	8.05	7.28	5.75	T92P7D12-24
		12 VDC	139	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB298-ND	9.79	8.57	7.76	6.12	T92S7D22-12
		12 VDC	139	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB486-ND	9.19	8.05	7.28	5.75	T92P7D22-12
		24 VDC	68	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB299-ND	9.79	8.57	7.76	6.12	T92S7D22-24
		24 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB487-ND	9.62	8.43	7.62	6.02	T92P7A22-24
		24 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB488-ND	10.44	9.14	8.27	6.53	T92S7A22-24
		120 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB301-ND	10.44	9.14	8.27	6.53	T92S7A22-120
		120 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB489-ND	9.62	8.43	7.62	6.02	T92P7A22-120
		240 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB736-ND	11.76	10.29	9.31	7.35	T92S7A22-240
		240 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB738-ND	10.99	9.62	8.71	6.87	T92P7A22-240
	DPDT	12 VDC	139	30	PC Mount	Sealed Case	Potter & Brumfield	PB351-ND	10.51	9.20	8.33	6.57	T92S11D12-12
		24 VDC	68	30	PC Mount	Sealed Case	Potter & Brumfield	PB352-ND	10.51	9.20	8.33	6.57	T92S11D12-24
		12 VDC	139	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB349-ND	9.74	8.53	7.72	6.09	T92P11D22-12
		12 VDC	139	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB490-ND	10.51	9.20	8.33	6.57	T92S11D22-12
		24 VDC	68	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB350-ND	9.74	8.53	7.72	6.09	T92P11D22-24
		24 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB300-ND	11.83	10.36	9.37	7.40	T92S11A22-24
		24 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB739-ND	10.80	9.45	8.55	6.75	T92P11A22-24
		24 VDC	68	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB491-ND	10.51	9.20	8.33	6.57	T92S11D22-24
		120 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB597-ND	11.83	10.36	9.37	7.40	T92S11A22-120
		120 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB492-ND	10.80	9.45	8.55	6.75	T92P11A22-120
		240 VAC	—	30	.250 (6.35) QC	Sealed Case	Potter & Brumfield	PB737-ND	13.03	11.41	10.32	8.15	T92S11A22-240
		240 VAC	—	30	.250 (6.35) QC	Unsealed Case	Potter & Brumfield	PB348-ND	12.17	10.65	9.64	7.61	T92P11A22-240
PRD Series — Heavy Duty Power Relay													
10	SPST-NO	120 VAC	—	25	Screw	Double Make Contact	Potter & Brumfield	PB590-ND	21.07	18.44	16.69	13.17	PRD-3AY0-120
	SPDT	12 VAC	—	25	Screw	—	Potter & Brumfield	PB493-ND	23.42	20.50	18.55	14.64	PRD-5DY0-12
		24 VAC	—	25	Screw	—	Potter & Brumfield	PB494-ND	24.89	21.78	19.71	15.56	PRD-5AY0-24
		120 VAC	—	25	Screw	—	Potter & Brumfield	PB495-ND	24.17	21.15	19.14	15.11	PRD-5AY0-120
	DPST-NO	120 VAC	—	25	Screw	Silver Contact	Potter & Brumfield	PB496-ND	26.16	22.89	20.71	16.35	PRD-7AY0-120
		120 VAC	—	25	Screw	Silver Cadmium Contact	Potter & Brumfield	PB591-ND	26.02	22.77	20.60	16.26	PRD-7AG0-120
		24 VDC	84	25	Screw	Silver Contact	Potter & Brumfield	PB497-ND	25.34	22.18	20.07	15.84	PRD-7DY0-24
	DPDT	12 VDC	169	25	Screw	—	Potter & Brumfield	PB498-ND	31.73	27.77	25.12	19.83	PRD-11DY0-12
		24 VDC	84	25	Screw	—	Potter & Brumfield	PB499-ND	31.73	27.77	25.12	19.83	PRD-11DY0-24
		24 VDC	84	20	Screw	With Magnetic Blow Out	Potter & Brumfield	PB500-ND	35.33	30.92	27.97	22.08	PRD-11DH0-24
		24 VDC	84	30	Screw	—	Potter & Brumfield	PB501-ND	31.66	27.70	25.07	19.79	PRD-11DG0-24
		110 VDC	18.2	20	Screw	With Magnetic Blow Out	Potter & Brumfield	PB502-ND	38.54	33.73	30.52	24.09	PRD-11DH0-110
		24 VAC	—	25	Screw	Silver Contact	Potter & Brumfield	PB588-ND	32.50	28.44	25.73	20.31	PRD-11AY0-24
		120 VAC	—	30	Screw	Silver Cadmium Contact	Potter & Brumfield	PB503-ND	32.33	28.29	25.60	20.21	PRD-11AG0-120
		120 VAC	—	20	Screw	With Magnetic Blow Out	Potter & Brumfield	PB504-ND	36.19	31.67	28.66	22.62	PRD-11AH0-120
		120 VAC	—	25	Screw	—	Potter & Brumfield	PB505-ND	32.50	28.44	25.73	20.31	PRD-11AY0-120
		240 VAC	—	25	Screw	—	Potter & Brumfield	PB506-ND	33.02	28.90	26.15	20.64	PRD-11AY0-240
	Metal Dust Cover for all PRD Relays, Gray Finish							PB646-ND	22.66	19.83	17.94	14.16	35D013
S86R, S87R Series — Industrial and S89R Series — Impulse Latching Relays													
11	DPDT	120 VAC	—	20	.250 (6.35) QC	—	Potter & Brumfield	PB510-ND	35.33	30.92	27.97	22.08	S86R11A1B1D1120
		120 VAC	—	20	.250 (6.35) QC	—	Potter & Brumfield	PB511-ND	33.53	29.34	26.55	20.96	S87R11A2B1D1120
12	DPDT	12 VDC	533	15	.187 (4.75) QC	Impulse	Potter & Brumfield	PB513-ND	43.61	38.16	34.53	27.26	S89R11DAC1-12
		120 VAC	—	15	.187 (4.75) QC	Impulse	Potter & Brumfield	PB585-ND	45.79	40.07	36.26	28.62	S89R11AAC1-120
		120 VAC	—	15	8 Pin Octal	Impulse	Potter & Brumfield	PB515-ND	52.46	45.91	41.54	32.79	S89R11APP1-120
P25, P30, P40 Series — Heavy Duty Contactor													
13	3PST-NO	24 VDC	180	25	.250 (6.35) QC	—	Potter & Brumfield	PB516-ND	79.70	69.75	63.10	49.82	P25P42D22P1-24
		24 VDC	286	30	.250 (6.35) QC	—	Potter & Brumfield	PB517-ND	93.96	82.22	74.39	58.73	P30P42D12P1-24
		24 VDC	286	40	.250 (6.35) QC	—	Potter & Brumfield	PB518-ND	98.83	86.48	78.25	61.77	P40P42D12P1-24
VKP Series — Open Frame Automotive Relay													
14	SPST-NO	12 VDC	133	40	PC Mount	—	Potter & Brumfield	PB312-ND	1.99	1.75	1.58	1.25	VKP-11F42
	SPDT	12 VDC	133	40	PC Mount	—	Potter & Brumfield	PB313-ND	2.40	2.10	1.90	1.50	VKP-15F42
VF4 Series — Enclosed Automotive Relay													
15	SPST-NO	12 VDC	133.3	30	.250 (6.35) QC	—	Tyco Electronics	PB679-ND	1.82	1.60	1.45	1.14	1432782-1
		12 VDC	133.3	30	.250 (6.35) QC	With Molded Bracket	Tyco Electronics	PB685-ND	2.02	1.77	1.60	1.26	1432772-1
		12 VDC	133	40	PC Mount	—	Tyco Electronics	PB229-ND	3.41	2.99	2.70	2.13	VF4-11F13
		12 VDC	133	40	PC Mount	—	Tyco Electronics	PB230-ND	4.27	3.74	3.39	2.67	VF4-15F13
	SPDT	12 VDC	133.3	30	.250 (6.35) QC	—	Tyco Electronics	PB680-ND	1.90	1.66	1.51	1.19	1432785-1
		12 VDC	133.3	30	.250 (6.35) QC	With Internal Diode	Tyco Electronics	PB682-ND	2.04	1.79	1.62	1.28	1432790-1
		12 VDC	133.3	30	.250 (6.35) QC	With Metal Bracket	Tyco Electronics	PB686-ND	2.09	1.83	1.66	1.31	1432791-1
		12 VDC	133.3	30	.250 (6.35) QC	With Built-In Resistor	Tyco Electronics	PB681-ND	1.97	1.73	1.56	1.23	1432786-1

(Continued)

PC Mount and General Purpose Relays *(Cont.)*

Dimensions in mm

Fig. 14 — VKP Automotive Series

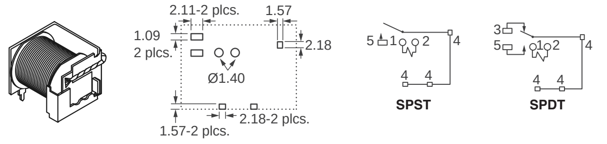

Fig. 15 — VF4 Automotive Series

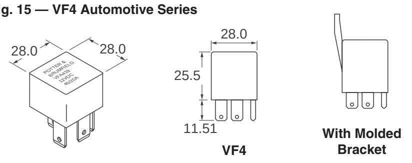

Fig. 16 — VF7 Automotive Series

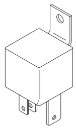

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type Inch (mm)	Additional Features	Brand Name	Digi-Key Part No.	Price Each 1	25	50	100	Mfg. Part No.
15	SPDT	24 VDC	66.6	40	.250 (6.35) QC	—	Tyco Electronics	PB215-ND	3.36	2.94	2.66	2.10	VF4A-15H11
		24 VDC	33.3	30	.250 (6.35) QC	—	Tyco Electronics	PB683-ND	1.97	1.73	1.56	1.23	1432826-1
		24 VDC	33.3	30	.250 (6.35) QC	With Internal Diode	Tyco Electronics	PB684-ND	2.14	1.87	1.70	1.34	1432795-1
		24 VDC	33.3	30	.250 (6.35) QC	With Metal Bracket	Tyco Electronics	PB687-ND	2.16	1.89	1.71	1.35	1432797-1
VF7 Series - Enclosed H-D Automotive Relay													
16	SPST-NO	12 VDC	166	70	QC Terminal	—	Tyco Electronics	PB708-ND	6.10	5.34	4.83	3.81	VF7-11F11
		12 VDC	166	70	QC Terminal	With Molded Bracket	Tyco Electronics	PB709-ND	6.36	5.57	5.04	3.98	VF7-41F11
		12 VDC	166	70	PC Mount	—	Tyco Electronics	PB710-ND	7.61	6.66	6.03	4.76	VF7-11F12
		24 VDC	66.6	70	QC Terminal	—	Tyco Electronics	PB711-ND	6.10	5.34	4.83	3.81	VF7-11H11
		24 VDC	66.6	70	PC Mount	—	Tyco Electronics	PB713-ND	6.29	5.51	4.98	3.93	VF7-11H12
		24 VDC	66.6	70	QC Terminal	With Molded Bracket	Tyco Electronics	PB712-ND	6.36	5.57	5.04	3.98	VF7-41H11

Relay Sockets and Accessories

Fig. 1

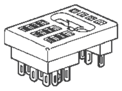

Solder Terminal Socket

Fig. 2 Dim. in mm

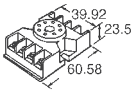

Panel Mount Socket (KRPA shown)

Fig. 3

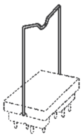

Wire Hold Down Spring

Fig. 4

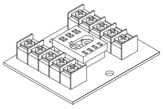

Relay Mount Board

Fig.	Description	Use With Series	Digi-Key Part No.	Price Each 1	25	50	100	Mfg. Part No.
1	Solder Terminal Socket, DPDT	K10	PB331-ND	2.04	1.79	1.62	1.28	27E488
2	DIN Rail Screw Mount Socket, DPDT	K10	PB332-ND	6.24	5.46	4.94	3.90	27E895
2	Chassis Mount Screw Socket, DPDT	K10	PB642-ND	6.00	5.25	4.75	3.75	27E487
3	Wire Hold Down Spring, DPDT for DIN Rail Socket	K10	PB333-ND	.58	.51	.46	.36	20C297
1	PCB Mount Socket, DPDT	K10	PB334-ND	2.14	1.87	1.70	1.34	27E489
1	Solder Terminal Socket, DPDT	R10	PB132-ND	1.54	1.35	1.22	.96	27E125
1	Solder Terminal Socket, 4PDT	R10	PB133-ND	1.70	1.50	1.35	1.07	27E126
1	PCB Mount Socket, DPDT	R10	PB134-ND	1.46	1.29	1.16	.92	27E128
1	PCB Mount Socket, 4PDT	R10	PB135-ND	1.70	1.50	1.35	1.07	27E129
4	Relay Mount Board with Screw Terminals, DP	R10	PB640-ND	16.32	14.28	12.92	10.20	27E460
4	Relay Mount Board with Screw Terminals, 4P	R10	PB674-ND	20.45	17.90	16.19	12.78	27E461
4	Relay Mount Board with Screw Terminals, 6P	R10	PB641-ND	28.63	25.06	22.67	17.90	27E462
3	Wire Hold Down Spring, DPDT	R10	PB136-ND	.31	.28	.25	.20	20C249
3	Wire Hold Down Spring, 4PDT	R10	PB137-ND	.31	.28	.25	.20	20C250
3	Wire Hold Down Strap (for P.C. Socket Only), all poles	R10	PB138-ND	.34	.30	.27	.21	20C259
1	Solder Terminal Socket, 4PDT	KHA	PB144-ND	1.66	1.45	1.32	1.04	27E006
1	PCB Mount Socket, 4PDT	KHA	PB145-ND	1.54	1.35	1.22	.96	27E007
3	Wire Hold Down Spring, KHA-4PDT/K10-DPDT	KHA/K10	PB146-ND	.46	.40	.37	.29	20C217
2	Chassis Mount Screw Mount Socket, 4PDT	KHA	PB147-ND	11.69	10.23	9.26	7.31	27E166
2	DIN Rail Mount Screw Terminal Socket, 4PDT	KHA	PB148-ND	9.24	8.09	7.32	5.78	27E894
1	PCB Terminal Socket, 4PDT	KH	PB523-ND	1.34	1.18	1.07	.84	27E023
2	Chassis Mount Screw Terminal Socket, all poles	KUP	PB165-ND	7.78	6.81	6.16	4.86	27E121
2	DIN Rail Mount Screw Terminal Socket, all poles	KUP	PB166-ND	9.29	8.13	7.36	5.81	27E893
4	Relay Mount Board with Screw Terminals, 4P	KUP	PB643-ND	17.98	15.73	14.24	11.24	27E867
4	Hard Mount Socket with Solder Terminals, SP-3P	KUP	PB639-ND	2.04	1.79	1.62	1.28	27E043
1	PCB Terminal Socket with Mounting Ears, DP, 3P	KU	PB522-ND	2.42	2.13	1.92	1.52	27E046
3	Wire Hold Down Spring for Hard Mount Sockets	KUP	PB607-ND	.60	.53	.48	.38	20C228
3	Wire Hold Down Spring, Snap Type for Hard Mount Sockets	KUP	PB608-ND	.48	.42	.38	.30	20C254
3	Wire Hold Down Spring for Hard Mount Sockets	KUP	PB609-ND	.58	.51	.46	.36	20C314
2	8-Pin Octal Screw Terminal Socket, all poles	KRPA	PB177-ND	5.45	4.77	4.32	3.41	27E122
2	11-Pin Octal Screw Terminal Socket, all poles	KRPA	PB178-ND	6.02	5.28	4.77	3.77	27E123
—	Spacer for KRPA Series Relay	KRPA	PB179-ND	1.10	.97	.88	.69	21B212
2	DIN Rail Mount Socket, DPDT	KRPA	PB520-ND	5.86	5.13	4.64	3.66	27E891
2	DIN Rail Mount Socket, 3PDT	KRPA	PB521-ND	8.83	7.73	7.00	5.52	27E892
3	Wire Hold Down Spring Screw Attach Type (2 Pcs. Required)	KRPA	PB644-ND	.79	.70	.63	.50	20C176
3	Wire Hold Down Spring for 27E891 and 27E892	KRPA	PB645-ND	.46	.40	.37	.29	20C318
—	DIN Rail Track, 36” (91.44cm) for DIN Rail Sockets, Aluminum	ALL	PB345-ND	12.00	10.50	9.50	7.50	24A110
—	Hold Down Clip, for use with DIN Rail	ALL	PB346-ND	.79	.70	.63	.50	24A071
—	Plastic Spacer for DIN Rail Sockets	ALL	PB347-ND	.79	.70	.63	.50	40G432
—	VF4 Relay Socket, PCB Mount	VF4	PB232-ND	1.63	1.43	1.30	1.02	VCF4-1000
—	VF4 Relay Socket (Wire Harness Style) for Contacts use P/N 42281-1	VF4	PB316-ND	.62	.55	.50	.39	VCF4-1001
—	VF4 Relay Socket (Bracket Wire Harness Mount)	VF4	PB714-ND	1.34	1.18	1.07	.84	VCF4-1002
—	VF4 Relay Socket (Shrouded Dust Cover)	VF4	PB715-ND	1.39	1.22	1.11	.87	VCF4-1003
—	VF7 Relay Socket (Wire Harness Style)	VF7	PB716-ND	.86	.76	.69	.54	VCF7-1000
—	VF4 Crimp Terminal 12-16AWG for PB316-ND	VF4	A27929CT-ND		11.27/100			60249-1
—	VF4 Crimp Terminal 12-16AWG for PB316-ND	VF4	A27929TR-ND		492.35/9,000			60249-1
—	VF4 Crimp Terminal 14-18AWG for PB316-ND	VF4	A27926CT-ND		10.88/100			42281-1
—	VF4 Crimp Terminal 14-18AWG for PB316-ND	VF4	A27926TR-ND		538.46/11,000			42281-1

Timers/Time Delay Relays

Potter & Brumfield timer relays are versatile time/function adjustable relays for industrial and time delay type applications. By setting the timing mode, selecting the time duration and applying 120VAC to power the timing circuitry, a dry contact relay will trip On or Off at the end of the set time. Delay-On or Delay-Off modes will start upon power up and delay turning the relay output On or Off for the user selected time Using the Cycle or Repeat Mode will put the timer in a continuous On and Off cycle where the time On and time Off are equal lengths. Model CRB relays enable separate On and Off adjustable times for Cycle timing.

Fig. 1 — CNM5 Series

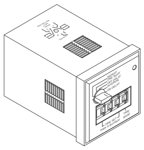

Fig. 2 — CNS Series

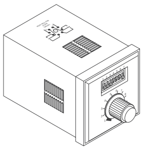

Fig. 3 — CNT Series

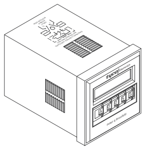

Fig. 4 — CLB and CLF Series

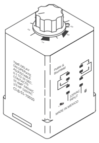

Fig. 5 — CB, CHB, CHD, CDB Series

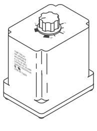

Fig. 6 — CRB Series

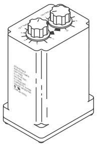

Fig. 7 — VTM Series

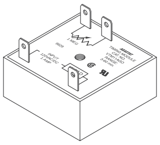

Fig. 8 — SSFR Series

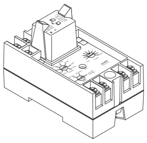

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Mfg. Part No.
1	Thumbwheel Selectable, Time Delay Relay, .1 Second ~ 9.99K Hours, DPDT, 10A, 120VAC, 11 Octal	PB555-ND	98.45	86.15	77.94	CNM5
2	Dial Adjustable, Time Delay Relay, 4 Function, DPDT, 10A ,120VAC, 8 Octal	PB556-ND	77.74	68.02	61.55	CNS-35-72
	Dial Adjustable, Time Delay Relay, 8 Function, DPDT, 10A ,120VAC, 11 Octal	PB557-ND	91.46	80.04	72.41	CNS-35-76
	Dial Adjustable, Time Delay Relay, 4 Function, DPDT, 10A, 24 ~ 240VAC/VDC, 8 Octal	PB670-ND	86.64	75.81	68.59	CNS-35-92
	Dial Adjustable, Time Delay Relay, 8 Function, DPDT, 10A, 24 ~ 240VAC/VDC, 11 Octal	PB558-ND	103.30	90.39	81.78	CNS-35-96
3	Thumbwheel Selectable, Digital Time Delay Relay, DPDT, 10A, 12VDC, 11 Octal	PB559-ND	145.32	127.16	115.05	CNT-35-26
	Thumbwheel Selectable, Digital Time Delay Relay, DPDT, 10A, 120VAC, 11 Octal	PB560-ND	114.02	99.78	90.27	CNT-35-76
	Thumbwheel Selectable, Digital Time Delay Relay, DPDT, 10A, 24 ~ 240VAC/VDC, 11 Octal	PB561-ND	155.57	136.13	123.16	CNT-35-96
4	Knob Adjustable, Delay-On Relay, .1 ~ 10 Seconds, 10A, 120VAC for Socket use 27E893	PB562-ND	114.50	100.20	90.65	CLB-51-70010
	Resistor Adjustable, Delay-On Relay, .1 ~ 10 Seconds, 10A, 120VAC for Socket use 27E893	PB563-ND	113.14	99.00	89.57	CLF-41-70010
5	Knob Adjustable, Delay-On Relay, .1 ~ 1 Seconds, 120VAC, 8 Octal	PB564-ND	104.81	91.71	82.98	CB-1001B-70
	Knob Adjustable, Delay-On Relay, .1 ~ 5 Seconds, 120VAC, 8 Octal	PB671-ND	104.81	91.71	82.98	CB-1002B-70
	Knob Adjustable, Delay-On Relay, .1 ~ 10 Seconds, 120VAC, 8 Octal	PB565-ND	104.81	91.71	82.98	CB-1003B-70
	Knob Adjustable, Delay-On Relay, .6 ~ 60 Seconds, 120VAC, 8 Octal	PB566-ND	104.81	91.71	82.98	CB-1004B-70
	Knob Adjustable, Delay-On Relay, 1.8 ~ 180 Seconds, 120VAC, 8 Octal	PB567-ND	104.81	91.71	82.98	CB-1005B-70
	Knob Adjustable, Delay-On Relay, 1 ~ 10 Minutes, 120VAC, 8 Octal	PB568-ND	104.81	91.71	82.98	CB-1006B-70
	Knob Adjustable, Delay-On Relay, 10 ~ 100 Minutes, 120VAC, 8 Octal	PB569-ND	104.81	91.71	82.98	CB-1007B-70
	Knob Adjustable, Delay-On Relay, .1 ~ 10 Seconds, 24VDC, 8 Octal	PB570-ND	104.81	91.71	82.98	CB-1028D-30
	Knob Adjustable, Delay-On Relay, .1 ~ 10 Seconds, 12VDC, 8 Octal	PB571-ND	104.81	91.71	82.98	CB-1047D-20
	Knob Adjustable, Delay-On Relay, 1 ~ 10 Seconds, DPDT, 10A, 24VAC, 8 Octal	PB572-ND	129.96	113.72	102.89	CHB-38-30001
	Knob Adjustable, Delay-On Relay, 1 ~ 180 Seconds, DPDT, 10A, 24VAC, 8 Octal	PB573-ND	129.96	113.72	102.89	CHB-38-30003
	Knob Adjustable, Delay-On Relay, 1 ~ 10 Seconds DPDT, 10A, 120VAC, 8 Octal	PB574-ND	129.96	113.72	102.89	CHB-38-70001
	Knob Adjustable, Delay-On Relay, 1 ~ 60 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB575-ND	129.96	113.72	102.89	CHB-38-70002
	Knob Adjustable, Delay-On Relay, 1 ~ 180 Seconds., DPDT, 10A, 120VAC, 8 Octal	PB576-ND	129.96	113.72	102.89	CHB-38-70003
	Knob Adjustable, Delay-On Relay, 1 ~ 60 Seconds, DPDT, 10A, 24VDC, 8 Octal	PB577-ND	129.96	113.72	102.89	CHD-38-30002
	Knob Adjustable Interval Relay, 1 ~ 10 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB754-ND	129.96	113.72	102.89	CHB-38-70021
	Knob Adjustable Delay-On Relay, 1 ~ 10 Seconds, DPDT, 10A, 24VDC, 8 Octal	PB755-ND	129.96	113.72	102.89	CHD-38-30001
	Knob Adjustable, Delay-On Operate Relay, .1 ~ 10 Sec., 10A, 120VAC, 8 Octal	PB578-ND	230.90	202.05	182.80	CDB-38-70003
	Knob Adjustable, Delay-On Release Relay, .1 ~ 10 Sec., 10A, 120VAC, 11 Octal	PB579-ND	230.90	202.05	182.80	CDB-38-70014
	Knob Adjustable, Delay-On Release Relay, 1.8 ~ 180 Seconds, 10A, 120VAC, 8 Octal	PB753-ND	230.90	202.05	182.80	CDB-38-70005
6	Recycle Time Delay Relay, 0.1 ~ 10 Seconds, On-Off Time Adjustments, DPDT, 10A, 120VAC, 8 Octal	PB580-ND	254.57	222.75	201.54	CRB-48-70010
	Recycle Time Delay Relay, 0.3 ~ 30 Seconds, On-Off Time Adjustments, DPDT, 10A, 120VAC, 8 Octal	PB581-ND	254.57	222.75	201.54	CRB-48-70030
	Recycle Time Delay Relay, 0.6 ~ 60 Seconds, On-Off Time Adjustments, DPDT, 10A, 120VAC, 8 Octal	PB582-ND	254.57	222.75	201.54	CRB-48-70060
	Recycle Time Delay Relay, 1.8 ~ 180 Seconds, On-Off Time Adjustments, DPDT, 10A, 120VAC, 8 Octal	PB583-ND	254.57	222.75	201.54	CRB-48-70180
7	External Pot Adjustable On-Delay SSR, .5 ~ 10 Seconds, 1A, 24VAC/VDC, Cube Module	PB783-ND	37.01	32.39	29.30	VTM1ECD
	External Pot Adjustable On-Delay SSR, 3 ~ 60 Seconds, 1A, 24VAC/VDC, Cube Module	PB784-ND	37.01	32.39	29.30	VTM1EDD
8	Screwdriver Adjustable, Time Delay Relay, 4 Function, .1 Seconds ~ 10 Hours, with K10 Relay, 120VAC	PB781-ND	154.75	135.41	122.52	SSFR90A
	Screwdriver Adjustable, Time Delay Relay, 4 Function, .1 Seconds ~ 10 Hours, without K10 Relay	PB782-ND	148.39	129.85	117.48	SSFR90X
—	Resistor Adjustable Delay-On Relay, 1 ~ 10 Seconds, 10A, 120VAC, for Socket use 27E893	PB762-ND	115.58	101.14	91.51	CUF-41-70010
	Resistor Adjustable Delay-On Relay, 1 ~ 12 Seconds, 10A, 120VAC, for Socket use 27E893	PB763-ND	115.58	101.14	91.51	CUF-41-70120
	Resistor Adjustable Delay-On Relay, .1 ~ 10 Seconds, 10A, 24VAC, for Socket use 27E893	PB759-ND	113.14	99.00	89.57	CLH-41-30010
	Resistor Adjustable Delay-On Relay, 1 ~ 120 Seconds, 10A, 24VAC, for Socket use 27E893	PB764-ND	115.58	101.14	91.51	CUH-41-30120
—	Knob Adjustable Delay-On Relay, .1 ~ 10 Seconds, DPST, 10A, 120VAC, 8 Octal	PB761-ND	117.72	103.01	93.20	CUB-51-70010
	Knob Adjustable Delay-On Relay, .1 ~ 10 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB756-ND	129.96	113.72	102.89	CKB-38-70010
	Resistor Adjustable Delay-On Relay, .1 ~ 10 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB757-ND	126.24	110.46	99.94	CKF-38-70010
	Resistor Adjustable Delay-On Release, .1 ~ 10 Seconds, DPDT, 10A, 120VAC, 8 Octal	PB758-ND	126.24	110.46	99.94	CKF-38-78010
—	Adjustable Voltage Sensor Relay, 92 ~ 140VDC, 90 ~ 138VDC Dropout, 10A, 8 Octal	PB760-ND	176.09	154.08	139.41	CSL-38-60010
	Adjustable Voltage Sensor Relay, 92 ~ 140VAC, 90 ~ 138VDC Dropout, 10A, 8 Octal	PB584-ND	176.09	154.08	139.41	CSJ-38-70010

I/O Modules

Features:
- Industry standard package and pin-out
- Color coded by function
- 4,000Vrms optical isolation
- High immunity to false operation
- Output modules can be controlled from sinking or sourcing logic

Input Voltage	Input I (mA)	Output Current	@	Output Voltage	Package Color	Turn On Time	Turn Off Time	Digi-Key Part No.	1	Price Each 25	50	Potter & Brumfield Part No.
90 ~ 140VAC/DC	6	50mA		30VDC	Yellow	20	30	PB537-ND	12.74	11.16	10.09	IAC-5
3.3 ~ 32VDC	1 ~ 20	50mA		30VDC	White	1	1	PB538-ND	12.74	11.16	10.09	IDC-5
3 ~ 32VDC	34	.050		20 ~ 30 VDC	White	1	1	PB703-ND	13.46	11.79	10.66	IDC-24
3 ~ 8VDC	1 ~ 20	3A		24 ~ 280VAC	Black	8.3	8.3	PB539-ND	12.74	11.16	10.09	OAC-5
3 ~ 8VDC	1 ~ 20	3A		24 ~ 280VAC	Black	8.3	8.3	PB698-ND	12.74	11.16	10.09	OAC-5A
3 ~ 8VDC	1 ~ 20	5A		24 ~ 280VAC	Black	8.3	8.3	PB701-ND	15.41	13.49	12.20	OAC-5H
3 ~ 8VDC	1 ~ 20	3A		24 ~ 280VAC	Black Mini	8.3	8.3	PB702-ND	12.74	11.16	10.09	OACM-5
3 ~ 8VDC	1 ~ 20	5A		24 ~ 280VAC	Black Mini	8.3	8.3	PB705-ND	15.41	13.49	12.20	OACM-5H
9 ~ 18VDC	1 ~ 13	3A		24 ~ 280VAC	Black	8.3	8.3	PB700-ND	13.46	11.79	10.66	OAC-15
18 ~ 32VDC	1 ~ 13	3A		24 ~ 280VAC	Black	8.3	8.3	PB699-ND	13.46	11.79	10.66	OAC-24
3 ~ 8VDC	1 ~ 20	3A		3 ~ 60VDC	Red	1	.75	PB541-ND	12.74	11.16	10.09	ODC-5
9 ~ 18VDC	1 ~ 13	3A		3 ~ 60VDC	Red	.10	.75	PB704-ND	13.46	11.79	10.66	ODC-15
18 ~ 32VDC	1 ~ 13	3A		3 ~ 60VDC	Red	1	.75	PB540-ND	13.46	11.79	10.66	ODC-24
I/O Mounting Board 4 Position, Negative True Logic - Screw Terminal								PB696-ND	43.18	37.78	34.19	2IO4A
I/O Mounting Board 4 Position, Negative or Positive True Logic - Screw Terminal								PB695-ND	43.18	37.78	34.19	2IO4B
I/O Mounting Board 16 Position, Negative or Positive True Logic - Screw Terminal								PB697-ND	164.38	143.83	130.14	2IO16B

Dim. in mm

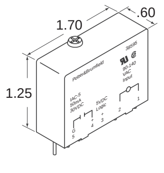

Solid State Relays

Potter & Brumfield Models SSR are SPST "Hockey Puck" style solid state relays for general power switching applications. These feature a dual, back to back SCR, Zero-Cross switching output for most inductive and high inrush loads. Parts ending in "R" are random turn-on outputs for phase control applications. SSRD (Dual) and SSRQ (Quad) are multiple output relays where each output is controlled separately. SSRT are SPST "Hockey Puck" style relays with snubberless Triac Outputs for inductive switching and high inrush applications. Enhanced noise immunity (designed to meet level 3 requirements of European EMC Directive). Includes LED indicator and floating terminal design.

Fig. 1 — SSR/SSRT Style

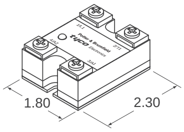

Fig. 2 — Dual or Quad Style

Dim. in mm

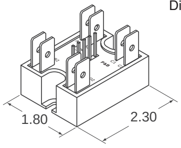

Fig.	Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Output Current (Arms)	Digi-Key Part No.	1	Price Each 25	50	Potter & Brumfield Part No.
					SSR Series — SCR Output					
1	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.1 ~ 25	PB545-ND	38.62	33.79	30.58	SSR-240D25
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.1 ~ 25	PB546-ND	42.17	36.90	33.39	SSR-240D25R
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.1 ~ 50	PB547-ND	56.28	49.25	44.56	SSR-240D50
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.1 ~ 125	PB544-ND	102.53	89.72	81.17	SSR-240D125
	3 ~ 32VDC	3VDC	1VDC	48 ~ 660VAC	.1 ~ 125	PB707-ND	86.16	75.39	68.21	SSR-480D125
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	.1 ~ 25	PB542-ND	45.72	40.01	36.20	SSR-240A25
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	.1 ~ 50	PB543-ND	63.38	55.47	50.18	SSR-240A50
					SSRT Series — Triac Output					
1	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.05 ~ 10	PB553-ND	29.93	26.19	23.70	SSRT-240D10
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.05 ~ 25	PB554-ND	35.16	30.77	27.84	SSRT-240D25
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	.1 ~ 10	PB706-ND	33.41	29.24	26.45	SSRT-240A10
	90 ~ 280VAC	90VAC	10VAC	24 ~ 240VAC	.05 ~ 25	PB552-ND	42.17	36.90	33.39	SSRT-240A25
					SSRD Series — Dual Output					
2	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.05 ~ 25	PB548-ND	70.30	61.51	55.66	SSRD-240D25
	4 ~ 15VDC	4VDC	1VDC	24 ~ 240VAC	.05 ~ 25	PB549-ND	75.62	66.18	59.87	SSRD-240D25R
	3 ~ 32VDC	3VDC	1VDC	24 ~ 240VAC	.05 ~ 40	PB550-ND	87.91	76.93	69.60	SSRD-240D40
					SSRQ Series — Quad AC Output					
2	4 ~ 15VDC	4VDC	1VDC	24 ~ 280VAC	.05 ~ 20	PB551-ND	112.58	98.52	89.13	SSRQ-240D20

Safety Relays

Safety-implemented circuits must be control reliable as mandated in the U.S. and European safety standards. Safety relays have the function to positively isolate safety circuits of emergency shut-off, machine control, elevator and escalator controls, light barrier control, furnaces, medical apparatus or any application requiring redundant shutoff safety requirements. These relays are designed with force guided contacts where in the event of a fault (1 contact welds closed), the second contact must carry out the switch off condition.

Fig. 1

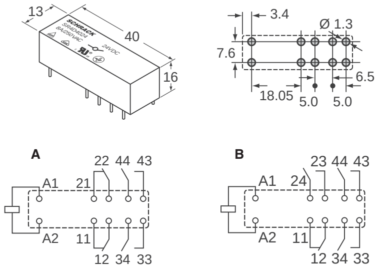

Fig. 2

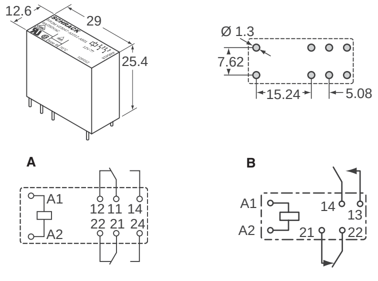

Fig. 3

Dim. in mm

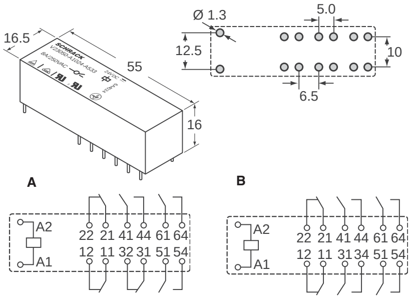

Fig.	Contact Arrange-ment	Coil Voltage	Coil Current (mA)	Contact Rating (A)	Terminal Type	Forcibly Guided Contacts	Brand Name	Digi-Key Part No.	1	Price Each 25	50	100	Schrack Part No.
							SR4 D/M Series						
1A	4PDT	24 VDC	33.3	8	PC Mount	4	Schrack	PB661-ND	19.42	16.99	15.38	12.14	SR4D4024
1B	4PDT	24 VDC	33.3	8	PC Mount	4	Schrack	PB662-ND	19.22	16.83	15.22	12.02	SR4M4024
							V23047 Series — SR2M Sealed, Single Relay						
2A	DPDT	12 VDC	60.0	6	PC Mount	4	Schrack	PB675-ND	7.25	6.35	5.74	4.53	V23047-A1012-A501
2B	DPST	12 VDC	60.0	6	PC Mount	2	Schrack	PB676-ND	7.03	6.16	5.57	4.40	V23047-A1012-A511
2A	DPDT	24 VDC	30.0	6	PC Mount	4	Schrack	PB659-ND	7.25	6.35	5.74	4.53	V23047-A1024-A501
2B	DPST	24 VDC	30.0	6	PC Mount	2	Schrack	PB660-ND	7.03	6.16	5.57	4.40	V23047-A1024-A511
							V23050 Series — SR6 Sealed, Single Relay						
3A	6PDT	24 VDC	50.0	8	PC Mount	6	Schrack	PB663-ND	20.86	18.25	16.52	13.04	V23050-A1024-A533
3B	6PDT	24 VDC	50.0	8	PC Mount	6	Schrack	PB664-ND	21.10	18.46	16.71	13.19	V23050-A1024-A542

Input/Output Modules and Racks

Fig. 1 — Standard

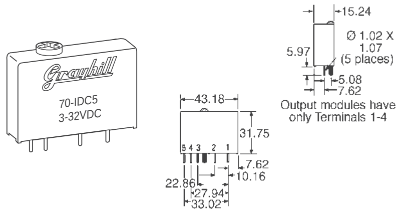

Fig. 2 — Mounting Board
(70RCK4 Board Shown)

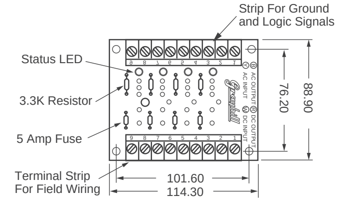

Fig. 3 — Mini

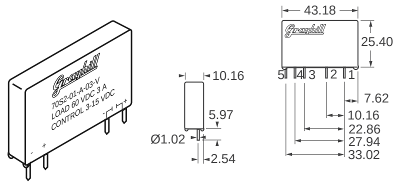

Fig. 4

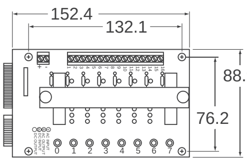

Fig. 5 — G5 Full Size

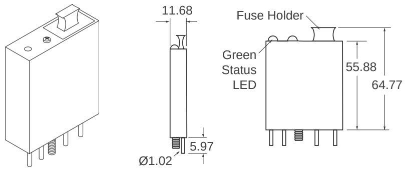

Fig. 6

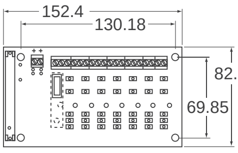

Our line of pluggable input and output modules provide a low cost, versatile method for interconnecting real world analog and digital signals to data acquisition, monitoring, or control systems. All modules provide an optically isolated barrier between sensitive microprocessor or digital logic circuits and field power devices.

The case color of these modules identify their function: Digital AC Output Module = Black Case; Digital DC Output Module = Red Case; Digital AC Input Module = Yellow Case; Digital DC Input Module = White Case; Analog Output Module = Orange Case; Analog Input Module = Blue Case.

FEATURES: • Transient protection meets the requirements of IEEE472 "Surge Withstanding Capability Test" • 4000VAC Optical Isolation.

GENERAL CHARACTERISTICS:

• **Operating Temperature Range:** -40°C ~ 100°C • **UL File No.:** E58632 **CSA File No.:** L38763

GENERAL SPECIFICATIONS:

- **Operating Temperature:** 0°C ~ 60°C
- **Short Circuit Protection:** Output signal can be shorted to ground without damaging the module

Voltage Output Modules: • **Supply Voltage:** 4.5 ~ 5.5VDC • **Supply Current @ 5 VDC:** 140 mA maximum

Current Output Modules: • **Supply Voltage:** 4.5 ~ 5.5VDC • **Supply Current @ 5 VDC:** 240 mA maximum • **Output Current (Sourcing):** 20mA maximum

Voltage Input Modules: • **Supply Voltage:** 4.5 to 5.5VDC • **Supply Current @ 5VDC:** 150 mA maximum • **Output Frequency:** 14.4 to 72.0 KHz squarewave • **Squarewave Duty Cycle:** 40%~60% • **Accuracy:** ±0.1% (DC Version), ±0.3% (AC Versions)

	Input Circuit		Output Circuit						Price Each			
	VDC		Voltage		Load	T on	T off	Digi-Key				Grayhill
Fig.	Nom.	Range	Nom.	Range	Cur. (Rms)	Time	Time	Part No.	1	10	100	Part No.
								Digital I/O Modules — Standard Size				
1	5 VDC	2.5-10	120 VAC	24-140	.030-3.5A	8.3ms	8.3ms	GH7018-ND	9.31	8.39	7.92	70-OAC5
	5 VDC	2.5-10	60 VDC	3-60	.020-3.5A	20µs	50µs	GH7019-ND	9.31	8.39	7.92	70-ODC5
	120 VAC	90-140	5 VDC	3-60	1-50mA	20ms	20ms	GH7020-ND	9.31	8.39	7.92	70-IAC5
	5 VDC	3-32 VDC	5 VDC	3-60	1-50mA	250µs	400µs	GH7021-ND	9.31	8.39	7.92	70-IDC5
								Mounting Boards for Standard Modules				
2	Mounting Board for 4 Standard I/O Modules - Terminal Block - Negative Logic Only							GH7028-ND	19.84	18.85	—	70RCK4
2	Mounting Board for 4 Standard I/O Modules - Terminal Block - Negative or Positive Logic							GH3035-ND	20.88	19.84	—	70RCK4R
—	Mounting Board for 8 Standard I/O Modules - Card Edge Connector Only							GH7029-ND	39.33	37.36	—	70RCK8
—	Mounting Board for 8 Standard I/O Modules - Long Latch Socket Connector							GH3044-ND	43.15	40.99	—	70RCK8-HL
—	Mounting Board for 16 Standard I/O Modules - Card Edge Connector Only							GH7031-ND	63.68	60.50	—	70RCK16
—	Mounting Board for 16 Standard I/O Modules - Long Latch Socket Connector							GH3045-ND	67.51	64.14	—	70RCK16-HL
—	Mounting Board for 24 Standard I/O Modules - Card Edge Connector Only							GH3007-ND	105.78	100.50	—	70RCK24
								Digital I/O Modules — Miniature Size				
3	5 VDC	2.5-10	120 VAC	24-140	.030-3A	8.3ms	8.3ms	GH7022-ND	9.31	8.39	7.92	70M-OAC5
	5 VDC	2.5-10	240 VAC	24-280	.030-3A	8.3ms	8.3ms	GH7023-ND	10.30	9.28	8.76	70M-OAC5A
	5 VDC	2.5-10	60 VDC	3-60	.020-3A	20µs	50µs	GH7024-ND	9.31	8.39	7.92	70M-ODC5
	15 VDC	10-18	60 VDC	3-60	.020-3A	20µs	50µs	GH7025-ND	9.31	8.39	7.92	70M-ODC15
	120 VAC	90-140	5 VDC	3-6	1-50mA	20ms	20ms	GH7026-ND	9.31	8.39	7.92	70M-IAC5
	5 VDC	3-32 VDC	5 VDC	3-6	1-50mA	200µs	400µs	GH7027-ND	9.31	8.39	7.92	70M-IDC5
								Mounting Boards for Miniature Modules				
4	Mounting Board for 8 Mini I/O Modules - Card Edge Connector Only							GH7030-ND	42.80	40.66	—	70MRCK8-EC
	Mounting Board for 24 Mini I/O Modules - Card Edge Connector Only							GH3008-ND	115.17	109.42	—	70MRCK24-EC
								Digital I/O Modules — G5 Full Size with Status LED				
5	5 VDC	4-6	120 VAC	24-140	.030-3.5A	8.3ms	8.3ms	GH3037-ND	10.79	9.72	9.18	70G-OAC5
	5 VDC	4-6	240 VAC	24-280	.030-3.5A	8.3ms	8.3ms	GH3038-ND	11.73	10.56	9.98	70G-OAC5A
	15 VDC	8-20	120 VAC	24-140	.030-3.5A	8.3ms	8.3ms	GH3039-ND	10.79	9.72	9.18	70G-OAC15
	5 VDC	4-6	60 VDC	3-60	.020-3.5A	20µs	50µs	GH3040-ND	10.79	9.72	9.18	70G-ODC5
	15 VDC	10-20	60 VDC	3-60	.020-3.5A	20µs	50µs	GH3041-ND	10.79	9.72	9.18	70G-ODC15
	120 VAC	0-140	5 VDC	4.5-6	1-50mA	20ms	20ms	GH3042-ND	9.81	8.84	8.34	70G-IAC5
	5 VDC	3-32	5 VDC	4.5-6	1-50mA	200µs	400µs	GH3043-ND	9.81	8.84	8.34	70G-IDC5
								Mounting Boards — G5 Full Size Modules				
—	Mounting Board for 4 Analog I/O Modules - Terminal Block - Negative or Positive Logic							GH3031-ND	20.88	—	18.79	70GRCK4R
6	Mounting Board for 8 Analog I/O Modules Short Latch Socket Connector							GH3032-ND	45.24	—	40.72	70GRCK8-HS

Optoelectronic Power IC Relays

Fig. 1

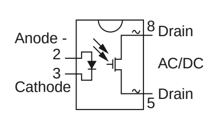

Fig. 2

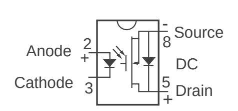

Fig. 3

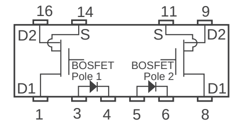

Fig. 4

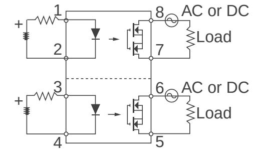

Fig. 5

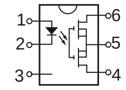

Fig. 6

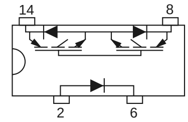

Fig. 7

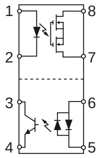

Fig. 8

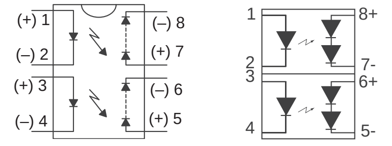

Fig. 9

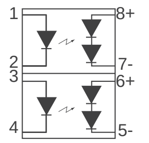

Fig. 10

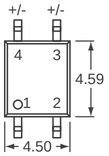

Fig.	Input Led Vf (Volt)	Imin (mA)	Imax (mA)	Vrange	Output Circuit Imax (mA)	Ton/ Toff	Package	Digi-Key Part No.	Price Each 1	10	100
1	1.0	5	25	0-60V AC	1000	2ms/0.5ms	8-SMD	PVAZ172NS-ND	10.15	8.12	6.09
	1.2	10	25	0-60V AC	1000	2ms/0.5ms	8-Dip	PVAZ172N-ND	10.00	8.00	7.00
	1.2	2	25	0 ~ ±100V AC/DC	550	150µs/70µs	8-Dip	PVA1352N-ND	6.00	4.80	3.60
	1.2	2	25	0 ~ ±100V AC/DC	550	150µs/70µs	8-SMD	PVA1352NS-ND	6.08	4.17	3.65
	1.2	2	25	0 ~ ±100V AC/DC	550	150µs/70µs	8-Dip	PVA1354N-ND	6.50	5.20	3.90
	1.2	2	25	0 ~ ±100V AC/DC	550	150µs/70µs	8-SMD	PVA1354NS-ND	6.58	4.51	3.95
	1.2	2	25	0 ~ ±200V AC/DC	150	100µs/70µs	8-Dip	PVA2352N-ND	5.38	4.30	3.23
	1.2	—	25	0 ~ ±200V AC/DC	150	100µs/70µs	8-SMD	PVA2352NS-ND	5.45	3.74	3.27
	1.2	2	25	0 ~ ±300V AC/DC	50	60µs/60µs	8-Dip	PVA3054N-ND	6.50	5.20	3.90
	1.2	2	25	0 ~ ±300V AC/DC	50	60µs/60µs	8-SMD	PVA3054NS-ND	6.58	4.51	3.95
	1.2	2	25	0 ~ ±300V AC/DC	50	60µs/60µs	8-Dip	PVA3055N-ND	7.50	6.00	4.50
	1.2	2	25	0 ~ ±300V AC/DC	50	60µs/60µs	8-SMD	PVA3055NS-ND	7.58	5.20	4.55
	1.2	2	25	0 ~ ±300V AC/DC	150	100µs/70µs	8-Dip	PVA3324N-ND	7.50	6.00	4.50
	1.2	1	25	0 ~ ±300V AC/DC	150	100µs/70µs	8-SMD	PVA3324NS-ND	7.58	5.20	4.55
	1.2	2	25	0 ~ ±300V AC/DC	150	100µs/70µs	8-Dip	PVA3354N-ND	6.50	5.20	3.69
	1.2	—	25	0 ~ ±300V AC/DC	150	100µs/70µs	8-SMD	PVA3354NS-ND	6.58	4.51	3.95
	1.2	2	25	0 ~ ±100V AC/DC	160	25µs/15µs	8-Dip	PVD1352N-ND	6.38	5.10	3.83
	1.2	2	25	0 ~ ±100V AC/DC	550	25µs/15µs	8-Dip	PVD1354N-ND	6.88	5.50	4.13
2	1.2	20	25	0-60V DC	1500	2ms/0.5ms	8-Dip	PVDZ172N-ND	8.50	6.80	5.95
	1.25	5	25	0-60V DC	1500	2ms/0.5ms	8-SMD	PVDZ172NS-ND	8.65	6.06	5.26
	1.2	2	25	0-100V DC	550	150µs/70µs	8-SMD	PVD1352NS-ND	6.45	4.43	3.87
	1.2	2	25	0-100V DC	550	150µs/70µs	8-SMD	PVD1354NS-ND	6.95	4.77	4.17
	1.2	2	25	0-200VDC	240	100µs/70µs	8-Dip	PVD2352N-ND	5.75	4.60	3.45
	1.2	2	25	0-300VDC	240	100µs/70µs	8-Dip	PVD3354N-ND	6.88	5.50	4.37
	1.2	2	25	0-300VDC	240	100µs/70µs	8-SMD	PVD3354NS-ND	6.95	4.77	4.17
3	1.2	2	25	0 ~ ±100V AC/DC	360	150µs/70µs	16-Dip	PVR1300N-ND	13.13	10.50	7.88
	1.2	2	25	0 ~ ±100V AC/DC	360	150µs/70µs	16-Dip	PVR1301N-ND	14.00	11.20	8.40
	1.2	2	25	0 ~ ±200V AC/DC	165	100µs/70µs	16-Dip	PVR2300N-ND	11.88	9.50	7.13
	1.2	2	25	0 ~ ±300V AC/DC	165	100µs/70µs	16-Dip	PVR3300N-ND	13.13	10.50	7.88
	1.2	2	25	0 ~ ±300V AC/DC	165	100µs/70µs	16-Dip	PVR3301N-ND	14.00	11.20	8.40
4	1.25	2	25	0-250V AC/DC	170	3ms/0.5ms	8-Dip	PVT322-ND	5.00	4.00	3.50
	1.25	2	25	0-250V AC/DC	170	3.0ms/0.5ms	8-SMD	PVT322S-ND	5.38	4.30	3.76
	1.25	2	25	0 ~ ±250V AC/DC	170	3.0ms/0.5ms	8-SMD	PVT322AS-TTR-ND	3956.25/750		
	1.2	2	25	0-400V AC/DC	120	2ms/2ms	8-Dip	PVT422-ND	5.20	4.16	3.64
	1.25	2	25	0-400V AC/DC	120	2ms/2ms	SMD Thin-Pak	PVT422P-ND	5.38	4.30	3.77
5	1.2	5	25	0-60V AC/DC	1000	2ms/0.5ms	6-Dip	PVG612-ND	5.96	4.30	3.52
	1.2	5	25	0-60V AC/DC	3000	3ms/0.5ms	6-Dip	PVG612A-ND	8.98	6.47	5.39
	1.2	5	25	0-60V AC/DC	3000	3ms/0.5ms	6-SMD	PVG612AS-TCT-ND§	11.38	9.18	7.34
	1.2	5	25	0-60V AC/DC	3000	3ms/0.5ms	6-SMD	PVG612AS-TTR-ND	3578.25/750		
	1.25	5	25	0 ~ ± 60V AC/DC	1000	2.0ms/0.5ms	6-SMD	PVG612S-ND	6.00	4.80	4.20
	1.25	5	25	0 ~ ± 60V AC/DC	1000	2.0ms/0.5ms	6-SMD	PVG612S-T-ND	2745.00/750		
	1.2	5	25	0 ~ ± 60V AC/DC	1.0	2.0ms/0.5ms	6-SMD	PVG613S-ND	9.58	6.57	5.75
	1.2	3	25	0-20V AC/DC	2500	5ms/0.5ms	6-Dip	PVN012-ND	5.85	4.68	4.10
	1.25	3	25	0 ~ ±20V AC/DC	2500	5.0ms/0.5ms	6-SMD	PVN012S-ND	6.00	4.80	4.20
	1.2	3	25	0 ~ ±20V AC/DC	2.5	5.0ms/0.5ms	6-Dip	PVN013-ND	9.48	6.50	5.69
	1.2	3	25	0 ~ ±20V AC/DC	2.5	5.0ms/0.5ms	6-SMD	PVN013S-ND	9.58	6.57	5.75
	7.0	5	25	0 ~ ±150V AC/DC	550	3.0ms/0.5ms	6-Dip	PVT212-ND	6.45	4.39	3.87
	7.0	5	25	0 ~ ±150V AC/DC	550	3.0ms/0.5ms	6-SMD	PVT212S-ND	6.50	4.29	3.90
	1.2	2	25	0-250V AC/DC	190	3ms/0.5ms	6-Dip	PVT312-ND	2.55	2.04	1.79
	1.2	2	25	0-250V AC/DC	170	3ms/0.5ms	6-Dip	PVT312L-ND†	2.60	2.08	1.82
	2.0	2	25	0-250 AC/DC	2	3.0/.05ms	6-SMD	PVT312LS-ND	2.43	1.94	1.46
	2.0	2	25	0-250 AC/DC	2	3.0/.05ms	6-SMD	PVT312S-ND	2.38	1.90	1.43
	1.2	5	25	0-400V AC/DC	140	2ms/0.5ms	6-Dip	PVT412-ND	2.30	1.84	1.61
	1.2	5	25	0-400V AC/DC	120	2ms/0.5ms	6-Dip	PVT412L-ND	2.60	2.08	1.82
	1.25	3	25	0 ~ ±400V AC/DC	140	2.0ms/0.5ms	6-SMD	PVT412LS-ND	2.65	2.12	1.85
	1.25	3	25	0 ~ ±400V AC/DC	140	2.0ms/0.5ms	6-SMD	PVT412S-ND	2.33	1.86	1.64
	1.2	5	25	0-400V AC/DC	140	500µs/200µs	6-Dip	PVU414-ND	5.45	4.36	3.82
	1.2	5	25	0-400V AC/DC	140	500µs/200µs	6-Dip	PVU414S-ND	5.60	4.48	3.92
6	1.25	5	25	0-280V(AC) RMS 0-400V (DC)	1000	7ms/1ms	14-Dip	PVX6012-ND	10.88	8.70	6.69
7	1.25	3	25	0-400V AC/DC	120	2.0ms/.5ms	Thin-Pak	PVO402P-ND	5.95	4.76	4.18
8	2.0	2	25	0-250 AC/DC	2	3.0/.5ms	8-Dip	PVT322A-ND	10.28	8.22	6.17
9	2.0	2	25	0-250 AC/DC	2	3.0/.5ms	8-SMD	PVT322AS-ND	10.38	8.30	6.23
	2.0	2	25	0-250 AC/DC	2	1.0/2.0ms	8-SMD	PVT422S-ND	5.45	4.36	3.27
10	1.2	2	—	0-40 DC	470	110µs/30µs	4-SOP	PVY117-TCT-ND§	8.68	7.00	5.60
								PVY117-TTR-ND	5460.00/1,500		

† Employs current limiting circuitry to withstand current transients.   § Cut Tape Pricing

Panasonic Electric Works
The new name for Aromat

PhotoMOS Relays

Features:
- PhotoMOS relays combine the advantages of standard electromechanical relays with that of solid state products
- Very fast response times with very low leakage and exceedingly long life times
- Reliability and lower input currents are also improved over conventional relays

Fig. 1

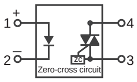

Fig. 2

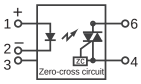

Fig. 3

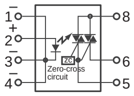

Fig. 4

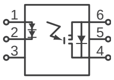

Fig. 5

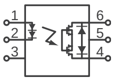

Fig. 6

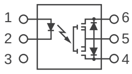

Fig. 7

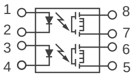

Fig. 8

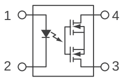

Fig. 9

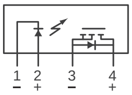

Fig. 10

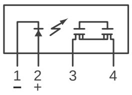

Board Layout

4-DIP

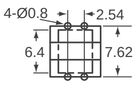

4-DIP Wide

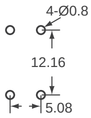

4-SMD

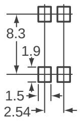

4-SMT

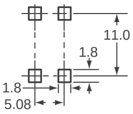

4-SIL

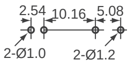

4-SOP

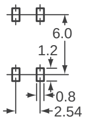

Dim. in mm

Fig.	Contact Arrangement	Load Current (max.)	Load Voltage (max.)	Isolation Voltage	On Resistance (Ω) (min./max.)	Features	Package	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
APT Series Phototriacs Couplers													
1	SPST	100mA	600V	5,000	—	Zero-Cross	4-Dip	255-1516-5-ND	1.10	1.02	.90	.77	APT1211
		100mA	600V	5,000	—	Zero-Cross	4-SMD	255-1517-5-ND	1.10	1.02	.90	.77	APT1211A
		50mA	600V	3,750	—	Zero-Cross	4-SOP	255-1518-5-ND	1.42	1.31	1.16	.99	APT1211S
2	SPST	100mA	600V	5,000	—	Zero-Cross	6-Dip	255-1519-5-ND	1.20	1.11	.98	.84	APT1212
		100mA	600V	5,000	—	Zero-Cross	6-SMD	255-1520-5-ND	1.20	1.11	.98	.84	APT1212A
1	SPST	100mA	600V	5,000	—	Non Zero-Cross	4-Dip	255-1521-5-ND	1.05	.97	.86	.74	APT1221
		100mA	600V	5,000	—	Non Zero-Cross	4-SMD	255-1522-5-ND	1.05	.97	.86	.74	APT1221A
		50mA	600V	3,750	—	Non Zero-Cross	4-SOP	255-1523-5-ND	1.23	1.13	1.00	.85	APT1221S
2	SPST	100mA	600V	5,000	—	Non Zero-Cross	6-Dip	255-1524-5-ND	1.25	1.15	1.02	.87	APT1222
		100mA	600V	5,000	—	Non Zero-Cross	6-SMD	255-1525-5-ND	1.25	1.15	1.02	.87	APT1222A
AQH Series Solid State Relays													
3	SPST	600mA	600V	5,000	—	Zero-Cross	8-Dip	255-1526-5-ND	1.59	1.47	1.30	1.11	AQH1213
		600mA	600V	5,000	—	Zero-Cross	8-SMD	255-1527-5-ND	1.59	1.47	1.30	1.11	AQH1213A
		600mA	600V	5,000	—	Non Zero-Cross	8-Dip	255-1528-5-ND	1.72	1.58	1.40	1.19	AQH1223
		600mA	600V	5,000	—	Non Zero-Cross	8-SMD	255-1529-5-ND	1.72	1.58	1.40	1.19	AQH1223A
		900mA	600V	5,000	—	Zero-Cross	8-Dip	255-1530-5-ND	1.67	1.53	1.36	1.16	AQH2213
		900mA	600V	5,000	—	Zero-Cross	8-SMD	255-1531-5-ND	1.67	1.53	1.36	1.16	AQH2213A
		900mA	600V	5,000	—	Non Zero-Cross	8-Dip	255-1532-5-ND	1.84	1.69	1.50	1.28	AQH2223
		900mA	600V	5,000	—	Non Zero-Cross	8-SMD	255-1533-5-ND	1.84	1.69	1.50	1.28	AQH2223A
AQV Series PhotoMOS Relays													
4	SPST-NO	700mA	40V	1,500	0.3/0.5	—	6-Dip	255-1546-5-ND	5.64	5.18	4.60	3.91	AQV101
5	SPST-NO	500mA	40V	1,500	0.6/1	—	6-SMD	255-1547-5-ND	6.35	5.83	5.18	4.41	AQV201A
		400mA	60V	1,500	0.74/1.4	—	6-Dip	255-1548-5-ND	6.35	5.83	5.18	4.41	AQV202
6	SPST-NO	130mA	350V	1,500	23/35	Economy Version	6-Dip	255-1143-5-ND	2.16	1.98	1.76	1.50	AQV210E
		130mA	350V	1,500	23/35	Economy Version	6-SMD	255-1144-5-ND	2.16	1.98	1.76	1.50	AQV210EA
		130mA	350V	5,000	23/35	Economy Version	6-Dip	255-1145-5-ND	2.16	1.98	1.76	1.50	AQV210EH
		130mA	350V	5,000	23/35	Economy Version	6-SMD	255-1146-5-ND	2.16	1.98	1.76	1.50	AQV210EHA
		130mA	350V	5,000	20/25	w/ Current Limit	6-Dip	255-1418-5-ND	2.23	2.05	1.82	1.55	AQV210HL
		130mA	350V	5,000	20/25	w/ Current Limit	6-SMD	255-1419-5-ND	2.23	2.05	1.82	1.55	AQV210HLA
		120mA	350V	1,500	23/35	—	6-SOP	255-1147-5-ND	2.16	1.98	1.76	1.50	AQV210S
		400mA	60V	1,500	0.83/2.5	—	6-Dip	255-1148-5-ND	3.87	3.56	3.16	2.69	AQV212
		400mA	60V	1,500	0.83/2.5	—	6-SMD	255-1149-5-ND	3.87	3.56	3.16	2.69	AQV212A
		350mA	60V	1,500	0.83/2.5	—	6-SOP	255-1150-5-ND	4.09	3.76	3.34	2.84	AQV212S
		120mA	400V	1,500	30/50	—	6-Dip	255-1151-5-ND	3.87	3.56	3.16	2.69	AQV214
		120mA	400V	5,000	30/50	—	6-Dip	255-1152-5-ND	4.14	3.81	3.38	2.88	AQV214H
		120mA	400V	1,500	30/50	Economy Version	6-Dip	255-1153-5-ND	2.16	1.98	1.76	1.50	AQV214E
		120mA	400V	1,500	30/50	Economy Version	6-SMD	255-1420-5-ND	2.16	1.98	1.76	1.50	AQV214EA
		120mA	400V	5,000	30/50	Economy Version	6-Dip	255-1154-5-ND	2.16	1.98	1.76	1.50	AQV214EH
		120mA	400V	5,000	30/50	Economy Version	6-SMD	255-1421-5-ND	2.16	1.98	1.76	1.50	AQV214EHA
		120mA	400V	1,500	30/50	—	6-SMD	255-1155-5-ND	3.87	3.56	3.16	2.69	AQV214A
		100mA	400V	1,500	30/50	—	6-SOP	255-1156-5-ND	2.16	1.98	1.76	1.50	AQV214S
		160mA	200V	1,500	11/15	—	6-SOP	255-1467-5-ND	4.09	3.76	3.34	2.84	AQV217S
		120mA	400V	1,500	30/50	—	6-Dip	255-1551-5-ND	5.02	4.62	4.10	3.49	AQV234
		500mA	40V	1,500	0.6/1	—	6-Dip	255-1352-5-ND	4.90	4.50	4.00	3.40	AQV251
		500mA	40V	1,500	0.6/1	Economy Version	6-SMD	255-1552-5-ND	4.90	4.50	4.00	3.40	AQV251A
		400mA	60V	1,500	0.74/1.4	—	6-Dip	255-1353-5-ND	4.90	4.50	4.00	3.40	AQV252
		400mA	60V	1,500	0.74/1.4	Economy Version	6-SMD	255-1553-5-ND	4.90	4.50	4.00	3.40	AQV252A
		2,500mA	60V	1,500	0.08/0.12	Economy Version	6-Dip	255-1791-5-ND	4.90	4.50	4.00	3.40	AQV252G
		200mA	250V	1,500	5.5/8	Economy Version	6-Dip	255-1554-5-ND	4.90	4.50	4.00	3.40	AQV253
		150mA	400V	1,500	12.4/16	Economy Version	6-Dip	255-1555-5-ND	4.90	4.50	4.00	3.40	AQV254
		150mA	400V	1,500	12.4/16	Economy Version	6-SMD	255-1556-5-ND	4.90	4.50	4.00	3.40	AQV254A
		150mA	400V	5,000	12.4/16	Economy Version	6-Dip	255-1557-5-ND	5.19	4.77	4.24	3.61	AQV254H
		250mA	200V	1,500	2.6/4	—	6-Dip	255-1354-5-ND	4.90	4.50	4.00	3.40	AQV257
		20mA	1,500V	1,500	345/500	Economy Version	6-Dip	255-1468-5-ND	5.51	5.07	4.50	3.83	AQV258
		20mA	1,500V	1,500	345/500	Economy Version	6-SMD	255-1558-5-ND	5.51	5.07	4.50	3.83	AQV258A
		130mA	350V	5,000	18/35	Economy Version	6-Dip	255-1422-5-ND	2.45	2.25	1.70	1.70	AQV410EH
		130mA	350V	5,000	18/35	Economy Version	6-SMD	255-1423-5-ND	2.45	2.25	2.00	1.70	AQV410EHA
	SPST-NC	120mA	400V	1,500	26/50	—	6-Dip	255-1157-5-ND	4.29	3.94	3.50	2.98	AQV414
		120mA	400V	1,500	26/50	—	6-SMD	255-1559-5-ND	4.29	3.94	3.50	2.98	AQV414A
		120mA	400V	1,500	26/50	Economy Version	6-Dip	255-1469-5-ND	2.45	2.25	2.00	1.70	AQV414E
		120mA	400V	1,500	26/50	Economy Version	6-SMD	255-1470-5-ND	2.45	2.25	2.00	1.70	AQV414EA
		120mA	400V	5,000	26/50	Economy Version	6-Dip	255-1348-5-ND	2.45	2.25	2.00	1.70	AQV414EH
		120mA	400V	5,000	25.2/50	Economy Version	6-SMD	255-1424-5-ND	2.45	2.25	2.00	1.70	AQV414EHA
AQV Series Radio Frequency PhotoMOS Relays													
6	SPST-NO	80mA	40V	1,500	22/35	—	6-Dip	255-1163-5-ND	4.34	3.99	3.54	3.01	AQV221
		80mA	40V	1,500	22/35	—	6-SMD	255-1164-5-ND	4.34	3.99	3.54	3.01	AQV221A
		120mA	80V	1,500	7/10	—	6-SOP	255-1549-5-ND	4.73	4.35	3.86	3.29	AQV225NS
		50mA	200V	1,500	30/50	—	6-SOP	255-1550-5-ND	4.73	4.35	3.86	3.29	AQV227NS
AQW Series PhotoMOS Relays													
7	DPST-NO	120mA	350V	5,000	18/25	Economy Version	8-Dip	255-1349-5-ND	4.29	3.94	3.50	2.98	AQW210EH
		120mA	350V	5,000	18/25	Economy Version	8-SMD	255-1425-5-ND	4.29	3.94	3.50	2.98	AQW210EHA
		500mA	60V	1,500	0.83/2.5	—	8-SMD	255-1560-5-ND	6.47	5.94	5.28	4.49	AQW212A
		100mA	400V	1,500	30/50	—	8-Dip	255-1158-5-ND	6.47	5.94	5.28	4.49	AQW214

(Continued)

PhotoMOS Relays *(Cont.)*

4-SSOP

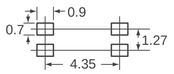

6-Dip

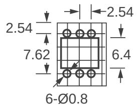

6-SMD

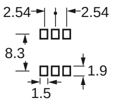

6-SOP

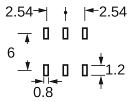

8-Dip

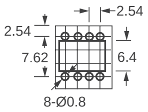

8-SMD

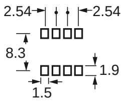

8-SOP

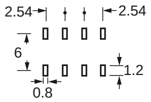

Dim. in mm

Fig.	Contact Arrangement	Load Current (max.)	Load Voltage (max.)	Isolation Voltage	On Resistance (Ω) (min./max.)	Features	Package	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
AQW Series General Purpose PhotoMOS Relays													
7	DPST-NO	100mA	400V	1,500	30/50	Standard Version	8-SMD	255-1159-5-ND	6.47	5.94	5.28	4.49	AQW214A
		100mA	400V	1,500	30/50	Economy Version	8-Dip	255-1426-5-ND	4.29	3.94	3.50	2.98	AQW214E
		100mA	400V	1,500	30/50	Economy Version	8-SMD	255-1427-5-ND	4.29	3.94	3.50	2.98	AQW214EA
		80mA	400V	1,500	30/50	Standard Version	8-SOP	255-1160-5-ND	4.29	3.94	3.50	2.98	AQW214S
		40mA	600V	1,500	70/120	Standard Version	8-Dip	255-1561-5-ND	6.47	5.94	5.28	4.49	AQW216
	DPST-NC	100mA	400V	1,500	26/50	Standard Version	8-Dip	255-1161-5-ND	8.09	7.43	6.60	5.61	AQW414
		100mA	400V	1,500	26/50	Standard Version	8-SMD	255-1162-5-ND	8.09	7.43	6.60	5.61	AQW414A
		100mA	400V	5,000	26/35	Economy Version	8-Dip	255-1350-5-ND	4.61	4.23	3.76	3.20	AQW414EH
		100mA	400V	5,000	26/35	Economy Version	8-SMD	255-1428-5-ND	4.61	4.23	3.76	3.20	AQW414EHA
	DPDT-NO/NC	120mA	350V	5,000	18/25	Economy Version	8-Dip	255-1471-5-ND	4.61	4.23	3.76	3.20	AQW610EH
		120mA	350V	5,000	18/25	Economy Version	8-SMD	255-1472-5-ND	4.61	4.23	3.76	3.20	AQW610EHA
		100mA	350V	1,500	18/25	Standard Version	8-SOP	255-1978-ND ***NEW!***	4.61	4.23	3.76	3.20	AQW610S
	DPST-O/C	100mA	400V	5,000	26/35	Economy Version	8-Dip	255-1351-5-ND	4.61	4.23	3.76	3.20	AQW614EH
	DPST-NC	100mA	400V	5,000	26/35	Economy Version	8-SMD	255-1429-5-ND	4.61	4.23	3.76	3.20	AQW614EHA
AQ Series Radio Frequency PhotoMOS Relays													
7	DPST-NO	120mA	80V	1,500	7/10	Low On Resistance	8-SMD	255-1562-5-ND	7.99	7.34	6.52	5.55	AQW225NA
8	SPST-NO	120mA	40V	1,500	9.5/12.5	—	4-SOP	255-1793-5-ND	6.32	5.81	5.16	4.39	AQY221N2S
		120mA	40V	1,500	9.5/12.5	—	4-SSOP	255-1794-5-ND	6.44	5.92	5.26	4.48	AQY221N2V
AQY Series PhotoMOS Relays													
8	SPST-NO	130mA	350V	5,000	18/25	Economy Version	4-Dip	255-1430-5-ND	1.98	1.83	1.62	1.38	AQY210EH
		130mA	350V	5,000	18/25	Economy Version	4-SMD	255-1431-5-ND	1.98	1.83	1.62	1.38	AQY210EHA
		120mA	350V	1,500	20/25	w/ Current Limit	4-SOP	255-1433-5-ND	2.06	1.89	1.68	1.43	AQY210LS
		120mA	350V	1,500	23.5/35	w/ Protection	4-SOP	255-1432-5-ND	2.60	2.39	2.12	1.81	AQY210KS
		120mA	350V	1,500	17/25	—	4-SOP	255-1434-5-ND	1.86	1.71	1.52	1.30	AQY210S
		1000mA	60V	1,500	0.34/0.7	—	4-SOP	255-1792-5-ND	5.22	4.80	4.26	3.63	AQY212GS
		120mA	400V	5,000	26/35	Economy Version	4-Dip	255-1435-5-ND	1.98	1.83	1.62	1.38	AQY214EH
		120mA	400V	5,000	26/35	Economy Version	4-SMD	255-1436-5-ND	1.98	1.83	1.62	1.38	AQY214EHA
		100mA	400V	1,500	25/35	—	4-SOP	255-1437-5-ND	1.86	1.71	1.52	1.30	AQY214S
		2000mA	60V	2,500	0.11/0.18	—	4-SMT	255-1563-5-ND	11.66	10.71	9.52	8.10	AQY272A
		350mA	400V	2,500	2.1/3.2	—	4-Dip Wide	255-1564-5-ND	11.66	10.71	9.52	8.10	AQY274
		1300mA	100V	2,500	0.23/0.34	—	4-SMT	255-1565-5-ND	11.66	10.71	9.52	8.10	AQY275A
		650mA	200V	2,500	0.23/0.34	—	4-SMT	255-1566-5-ND	11.66	10.71	9.52	8.10	AQY277A
		500mA	60V	1,500	0.85/2.5	—	4-SOP	255-1795-5-ND	1.67	1.53	1.36	1.16	AQY282S
		100mA	400V	1,500	28/35	—	4-SOP	255-1796-5-ND	1.69	1.56	1.38	1.18	AQY284S
	SPST-NC	130mA	350V	5,000	18/25	Economy Version	4-Dip	255-1983-ND ***NEW!***	4.14	3.81	3.38	2.88	AQY410EH
		120mA	350V	1,500	18/25	—	4-SOP	255-1438-5-ND	2.38	2.19	1.94	1.65	AQY410S
		100mA	400V	1,500	26/35	—	4-SOP	255-1439-5-ND	2.38	2.19	1.94	1.65	AQY414S
AQZ Series Power PhotoMOS Relays													
9	SPST-NO	4A	60V	2,500	0.05/0.09	—	4-SIL	255-1567-ND	8.45	7.77	6.90	5.87	AQZ102
		2.6A	100V	2,500	0.08/0.17	—	4-SIL	255-1568-ND	8.45	7.77	6.90	5.87	AQZ105
10	SPST-NO	3A	60V	2,500	0.11/0.18	—	4-SIL	255-1569-ND	9.16	8.42	7.48	6.36	AQZ202
		.5A	400V	2,500	2.1/3.2	—	4-SIL	255-1985-ND ***NEW!***	9.16	8.42	7.48	6.36	AQZ204
		2A	100V	2,500	0.23/0.34	—	4-SIL	255-1570-ND	9.16	8.42	7.48	6.36	AQZ205
		1A	200V	2,500	0.70/1.10	—	4-SIL	255-1571-ND	9.16	8.42	7.48	6.36	AQZ207

SIP Conformal Coated Solid State Relays

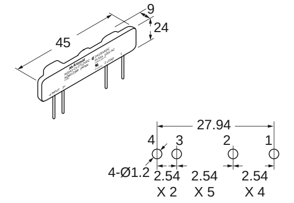

Dim. in mm

AQ2 SIP SSRs are designed as suitable drivers for AC motors, solenoids, valves, etc. These offer excellent noise resistance with an integrated snubber circuit and ultra thin body (only 9mm) for maintenance-free, long life switching. Zero-Cross is a low noise switching output whereas Phase Controlled are ideal for phase controlled applications such as motor speed control and light dimming.

Contact Arrange.	Input Voltage (DC) (min./max.)	Dropout Voltage (min.)	Output Current (A) (min./max.)	Output Voltage (AC) (min./max.)	Type	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
SPST-NO	9.6/14.4C	1.2	0.025/2	75/125	Zero-Cross	255-1166-ND	12.17	11.23	9.98	8.52	AQ2A1-C1-ZT12VDC
	21.6/26.4	2.4				255-1167-ND	12.17	11.23	9.98	8.52	AQ2A1-C1-ZT24VDC
	4/6	0.5	0.025/2	75/250	Zero-Cross	255-1168-ND	13.43	12.33	10.96	9.32	AQ2A2-C1-ZT5VDC
	9.6/14.4	1.2				255-1169-ND	13.43	12.33	10.96	9.32	AQ2A2-C1-ZT12VDC
	21.6/26.4	2.4				255-1170-ND	13.43	12.33	10.96	9.32	AQ2A2-C1-ZT24VDC
	21.6/26.4	2.4	0.025/2	75/125	Phase Controlled	255-1173-ND	9.45	8.71	7.74	6.62	AQ2A1-C1-T24VDC
	4/6	0.5	0.025/2	75/250	Phase Controlled	255-1174-ND	10.56	9.70	8.62	7.33	AQ2A2-C1-T5VDC
	9.6/14.4	1.2				255-1175-ND	10.56	9.70	8.62	7.33	AQ2A2-C1-T12VDC
	21.6/26.4	2.4				255-1176-ND	10.56	9.70	8.62	7.33	AQ2A2-C1-T24VDC

AQR Solid State Relays

Features: • Flat type of SSR possible by aluminium printed circuit board • High dielectric strength of 1,500V between input and output

Applications: • Molding Machine • Temperature controlled bath (heater control) • Printing Machine • Machine Tool

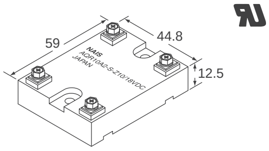

Dim. in mm

Input Voltage	Output Voltage	Output Current	Package	Digi-Key Part No.	Price Each 1	25	50	100	Panasonic Part No.
4~6	75~250	10A	Screw Term.	255-1535-ND	34.30	31.50	28.00	23.80	AQR10A2-S-Z4/6VDC
10~18				255-1534-ND	34.30	31.50	28.00	23.80	AQR10A2-S-Z10/18VDC
4~6	75~125	15A	Screw Term.	255-1536-ND	33.93	31.17	27.70	23.55	AQR15A1-S-Z4/6VDC
4~6	75~125	20A	Screw Term.	255-1537-ND	35.23	32.36	28.76	24.45	AQR20A1-S-Z4/6VDC
10~18	75~250			255-1538-ND	36.95	33.93	30.16	25.64	AQR20A2-S-Z10/18VDC
18~28	75~250			255-1539-ND	36.95	33.93	30.16	25.64	AQR20A2-S-Z18/28VDC
4~6	75~250	30A	Screw Term.	255-1542-ND	78.40	72.00	64.00	54.40	AQR30A2-S-Z4/6VDC
10~18				255-1540-ND	78.40	72.00	64.00	54.40	AQR30A2-S-Z10/18VDC
18~28				255-1541-ND	78.40	72.00	64.00	54.40	AQR30A2-S-Z18/28VDC
4~6	75~250	40A	Screw Term.	255-1545-ND	95.55	87.75	78.00	66.30	AQR40A2-S-Z4/6VDC
10~18				255-1543-ND	95.55	87.75	78.00	66.30	AQR40A2-S-Z10/18VDC
18~28				255-1544-ND	95.55	87.75	78.00	66.30	AQR40A2-S-Z18/28VDC

CLARE
An IXYS Company

Solid State Relays and Switches

As a leading supplier of Solid State Relays (SSRs) to the communications industry, Clare has pioneered the application of SSR solutions that both replace electromechanical devices and enhance performance in wireline interface applications. Clare's products enable communications by providing the critical interface between high voltage electrical signals and the low voltage electronics that process those signals. LITELINK III single-chip silicon phone line interfaces (DAA) use optical technology to include the required isolation barrier in the package, eliminating high cost capacitors or transformers. This solution saves cost relative to competitive solutions through reduced passive component count and less board space. LITELINK III supports differential and single-end receive and transmit ports providing an easy interface to popular modem IC's codecs and voice SLAC devices.

Features: • Voice and data applications • Modem DAA for speeds up to V.92 • Caller-ID reception • 3.3 or 5V power supply

Applications: • Computer telephony • Satellite set-top box • V.92 modems • Fax machines • Voice mail systems • Automated banking • Security systems

OptoMos Solid State Relays

Fig.	Circuit	Pkg.	Input* Current Min./Max.	Output Current Max.	Load Voltage	Turn On/ Turn Off (mS)	Digi-Key Part No.	Price Each 1	25	50	Tape & Reel† Size	Tape & Reel† Pricing	Clare Part No.
1	SPST-NO	4-SOP	2/50mA	300mA	100	3/1	CLA154-ND	2.02	1.71	1.40	—	—	CPC1004N
	SPST-NO	4-SOP	2/50mA	150mA	100	2/0.5	CLA216CT-ND‡	1.69	1.43	1.17	2,000	780.00/M	CPC1008NTR
	SPST-NO	4-SOP	2/50mA	100mA	350	2/1	CLA218CT-ND‡	1.95	1.65	1.35	2,000	900.00/M	CPC1035NTR
	SPST-NO	4-SOP	2/50mA	120mA	350	2/1	CLA152-ND	2.24	1.90	1.56	—	—	CPC1030N
	SPST-NO	4-SOP	2/50mA	120mA	350	2/1	CLA217CT-ND‡	2.24	1.90	1.56	2,000	1035.00/M	CPC1030NTR
	SPST-NO	4-SOP	2/50mA	120mA	350	2/1	CLA161-ND	2.60	2.20	1.80	—	—	CPC1230N
	SPST-NC	4-SOP	2/50mA	120mA	350	1/2	CLA155-ND	2.24	1.90	1.56	—	—	CPC1150N
	SPST-NC	4-SOP	2/50mA	120mA	350	1/2	CLA219CT-ND‡	2.24	1.90	1.56	2,000	1035.00/M	CPC1150NTR
	SPST-NO	4-SOP	2/50mA	100mA	100	2/0.5	CLA160-ND	1.69	1.43	1.17	—	—	CPC1016N
	SPST-NO	4-SOP	1/50mA	100mA	60	10/10	CLA153-ND	1.37	1.16	.95	—	—	CPC1017N
	SPST-NO	4-SOP	Min. 1mA	600mA	60	3/2	CLA214-ND	3.38	2.86	2.34	—	—	CPC1018N
	SPST-NC	4-SOP	2/50mA	120mA	350	2/2	CLA205-ND	2.93	2.48	2.03	—	—	CPC1130N
2	SPST-NO	6 Dip	10/50mA	1mA	60	2.5/.25	CLA181-ND	6.40	5.42	4.44	—	—	LCA710
	SPST-NO	6 Dip	5/50mA	350mA	100	5/5	CLA192-ND	4.94	4.18	3.42	—	—	PLA134
	SPST-NO	6 Dip	5/50mA	250mA	250	2/0.5	CLA193-ND	4.94	4.18	3.42	—	—	PLA150
	SPST-NC	6 Dip	5/50mA	250mA	250	1/2.5	CLA194-ND	5.85	4.95	4.05	—	—	PLB150
	SPST-NO	6 Dip	2/50mA	120mA	350	3/3	CLA101-ND	2.31	1.96	1.60	—	—	LCA110
	SPST-NO	6-SMD	2/50mA	120mA	350	3/3	CLA102CT-ND‡	2.37	2.01	1.65	1,000	876.00	LCA110STR
	SPST-NC	6 Dip	5/50mA	120mA	350	3/3	CLA105-ND	3.25	2.75	2.25	—	—	LCB110
	SPST-NO	6 Dip	5/50mA	200mA	250	5/5	CLA180-ND	4.00	3.39	2.77	—	—	LCA127
	SPST-NC	6 Dip	5/50mA	200mA	250	5/5	CLA183-ND	4.71	3.99	3.27	—	—	LCB127
	SPST-NO	6 Dip	5/50mA	170mA	300	5/5	CLA179-ND	4.00	3.39	2.77	—	—	LCA125
	SPST-NC	6 Dip	5/50mA	170mA	250	5/5	CLA182-ND	4.06	3.44	2.82	—	—	LCB120
	SPST-NO	6 Dip	5/50mA	150mA	400	1/.5	CLA107-ND	4.19	3.55	2.91	—	—	PLA110
	SPST-NO	6-SMD	5/50mA	150mA	400	1/.5	CLA156-ND	4.23	3.58	2.93	—	—	PLA110S
	SPST-NO	6 Dip	5/50mA	150mA	250	3/3	CLA178-ND	3.45	2.92	2.39	—	—	LCA120
	SPST-NO	6 Dip	5/50mA	120mA	350	5/5	CLA177-ND	3.32	2.81	2.30	—	—	LCA100
	SPST-NO	6 Dip	5/50mA	100mA	350	5/5	CLA200-ND	2.44	2.07	1.69	—	—	XCA170
3	DPST-NO/NO	8 Dip	5/50mA	250mA	400	3/1	CLA188-ND	8.78	7.43	6.08	—	—	PAA140
	DPST-NO/NO	8 Dip	5/50mA	250mA	250	2.5/0.5	CLA189-ND	9.43	7.98	6.53	—	—	PAA150
	DPST-NO/NC	8 Dip	5/50mA	250mA	250	2.5/2.5	CLA190-ND	9.98	8.45	6.91	—	—	PBA150
	DPST-NC/NC	8 Dip	5/50mA	250mA	250	2.5/2.5	CLA191-ND	9.98	8.45	6.91	—	—	PBB150
	DPST-NO/NO	8 Dip	5/50mA	200mA	250	5/5	CLA172-ND	7.57	6.41	5.25	—	—	LAA127
	DPST-NO/NO	8 Dip	5/50mA	170mA	250	5/5	CLA170-ND	5.10	4.32	3.54	—	—	LAA120
	DPST-NC/NC	8 Dip	5/50mA	200mA	250	5/5	CLA176-ND	8.97	7.59	6.21	—	—	LBB127
	DPST-NC/NC	8 Dip	5/50mA	170mA	250	5/5	CLA175-ND	7.18	6.08	4.98	—	—	LBB126
	DPST-NO/NO	8 Dip	5/50mA	170mA	350	5/5	CLA171-ND	5.10	4.32	3.54	—	—	LAA125
	DPST-NO/NC	8 Dip	5/50mA	170mA	250	5/5	CLA173-ND	7.12	6.03	4.93	—	—	LBA120
	DPST-NO/NO	8 Dip	5/50mA	150mA	400	1/.25	CLA187-ND	8.00	6.77	5.54	—	—	PAA110
	DPST-NO/NO	8 Dip	5/50mA	120mA	350	3/3	CLA103-ND	5.23	4.43	3.63	—	—	LAA110
	DPST-NC/NO	8 Dip	5/50mA	120mA	350	3/3	CLA104-ND	5.72	4.84	3.96	—	—	LBA110
	DPST-NC/NC	8 Dip	5/50mA	120mA	350	3/3	CLA174-ND	6.18	5.23	4.28	—	—	LBB110
	DPST-NO/NC	8 Dip	5/50mA	100mA	350	5/5	CLA199-ND	5.36	4.54	3.72	—	—	XBA170
	DPST-NO/NO	8 Dip	5/50mA	100mA	350	5/5	CLA198-ND	4.91	4.16	3.40	—	—	XAA170
4	SPST-NO/NC	8 Dip	10/50mA	170mA	250	5/5	CLA184-ND	6.57	5.56	4.55	—	—	LCC120
	SPST-NC/NO	8 Dip	8/50mA	120mA	350	4/4	CLA106-ND	5.14	4.35	3.56	—	—	LCC110

* Input Voltage - 1.2V Typical, 1.4V Maximum † For Tape and Reel part number, change CT-ND to TR-ND. ‡ CT- Cut Tape package

Optocouplers

Fig.	Circuit	Pkg.	Vf	If (mA)	Isolation (Vrms)	Current Transfer Ratio	Digi-Key Part No.	Price Each 1	25	50	T&R† Pricing 1,000	Clare Part No.
5	Dual Trans	8 Dip	1.2	2	3750	—	CLA113-ND	2.44	2.07	1.69	—	LOC110
	Dual Trans	8-SMD	1.2	2	3750	—	CLA114CT-ND‡	4.88	4.13	3.38	1079.00	LOC110STR
	Dual Trans	8 Dip	1.2	2	3750	—	CLA116-ND	2.86	2.42	1.98	—	LOC111
	Dual Trans	Flat Pk.	1.2	2	3750	—	CLA118CT-ND‡	5.27	4.46	3.65	1209.00	LOC111PTR
6	Single Trans	6 Dip	1.2	6	3750	100%	CLA185-ND	.91	.77	.63	—	LDA100
7	Single Trans	6 Dip	1.2	2	3750	1000%	CLA111-ND	.94	.80	.66	—	LDA110
8	Dual Trans	8 Dip	1.2	6	3750	100%	CLA112-ND	1.82	1.54	1.26	—	LDA200
9	Dual Trans	8 Dip	1.2	6	3750	1000%	CLA186-ND	1.92	1.63	1.33	—	LDA210
10	Telecom	8 Dip	1.2	2	3750	—	CLA108-ND	3.41	2.89	2.37	—	TS117
	Telecom	8-SMD	1.2	2	3750	—	CLA110CT-ND‡	3.45	2.92	2.39	1272.00	TS117STR

† For Tape and Reel Part Number, change CT-ND to TR-ND ‡ CT- Cut Tape package

Solid State Power Relays and Switches

Fig.	Circuit	Pkg.	Out Current (A)	Load (V)	Isolation (Vrms)	Digi-Key Part No.	Price Each 1	25	50	Clare Part No.
11	SCR Output	16 Dip	1	600	3750	CLA157-ND	3.93	3.33	2.73	CPC1965G
	SCR Output	16 Dip	1	400	3750	CLA162-ND	3.74	3.17	2.59	CPC1945G
12	SCR Output	8 SIP	1	250	3750	CLA158-ND	3.93	3.33	2.73	CPC1965Y
	SCR Output	8 SIP	1	400	3750	CLA163-ND	3.74	3.17	2.59	CPC1945Y
	SCR Output	8 SIP	1	400	3750	CLA195-ND	6.57	5.56	4.55	PS1201
	SCR Output	8 SIP	1	500	3750	CLA196-ND	6.66	5.64	4.62	PS2401
	SCR Output	8 SIP	1	600	3750	CLA197-ND	8.26	6.99	5.72	PS2601
13	MOSFET	4 SIP	250mA	1000	2500	CLA203-ND	9.98	8.45	6.91	CPC1981Y
	MOSFET	4 SIP	2	60	2500	CLA207-ND	9.39	7.95	6.51	CPC1906Y
	MOSFET	4 SIP	2.5	100	2500	CLA209-ND	8.13	6.88	5.63	CPC1916Y
	MOSFET	4 SIP	1	250	2500	CLA210-ND	7.67	6.49	5.31	CPC1926Y
	MOSFET	4 SIP	350mA	400	2500	CLA211-ND	7.18	6.08	4.98	CPC1973Y
14	MOSFET	i4-PAC	8	60	2500	CLA208-ND	18.14	15.35	12.56	CPC1908J
	MOSFET	i4-PAC	4	600	2500	CLA212-ND	20.77	17.58	14.38	CPC1977J
	MOSFET	i4-PAC	2.5	800	2500	CLA213-ND	15.57	13.18	10.78	CPC1978J

LITELINK III Phone Line Interface

Fig.	Description	Digi-Key Part No.	Price Each	Clare Part No.
15	IC Phone Line Monitor	CLA169-ND	1.46	CPC5710N
16	Half-wave Ring Detection	CLA166-ND	6.47	CPC5620A
	Full-wave Ring Detection	CLA167-ND	6.47	CPC5621A
	VoIP/Voice Designs with Full Time CID and RING	CLA215-ND	6.47	CPC5622A
17	LITELINK III Evaluation Board Reactive	CLA165-ND	191.73	CPC5621EVAL-CDL
	LITELINK III Evaluation Board Resistive	CLA164-ND	180.77	CPC5621EVAL-RDL
—	SHDSL/ISDN DC Termination 16 SOIC	CLA206-ND	9.72	CPC1465D

Fig. 1

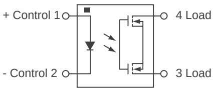

Fig. 2

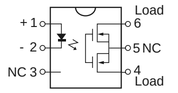

Fig. 3

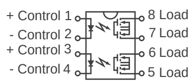

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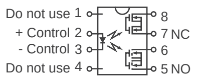

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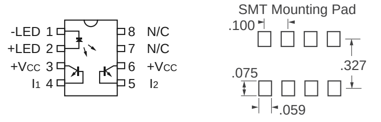

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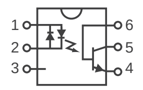

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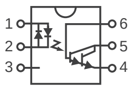

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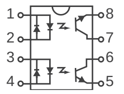

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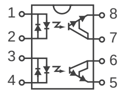

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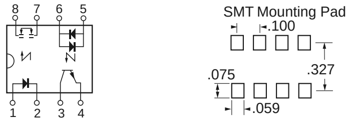

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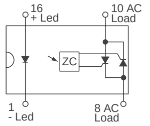

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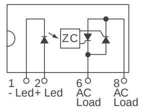

Fig. 13

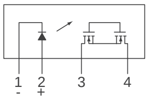

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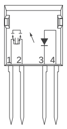

Fig. 15

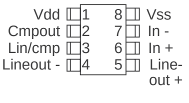

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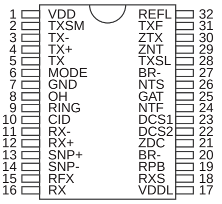

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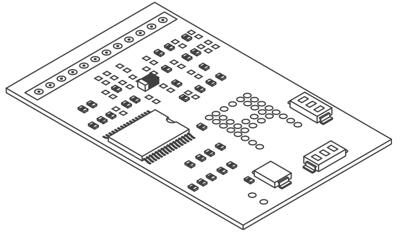

SHARP
MICROELECTRONICS

Solid State Relays

	Input			Output								
		Current							Tube			
	Voltage	Min.	Max.	Voltage VRMS	Current IT (RMS)	Holding Current	Package	Digi-Key	Price Each			Sharp
Fig.	Typ.	(mA)		Max.	(A)	(mA) Max.	Type	Part No.	1	10	25	Part No.
1	1.2	5	50	120	1.5	25	16-Dip	425-1182-5-ND	2.55	2.13	1.81	PR21HD22NSZ
		10	50	120	1.5	25	16-Dip	425-1207-5-ND	2.52	2.10	1.79	S101DH2
		5	50	240	1.5	25	16-Dip	425-1193-5-ND	2.73	2.28	1.94	PR31HD22NSZ
2	1.2	5	50	120	0.6	25	8-SMD	425-1380-1-ND‡	1.60	—	1.20	PR26MF11NIP
								425-1380-2-NDΔ#	520.00/1,000			PR26MF11NIP
		5	50	120	0.6	25	8-Dip	425-1184-5-ND	1.30	1.10	1.00	PR26MF12NSZ
		5	50	120	0.9	25	8-Dip	425-1187-5-ND	1.56	1.32	1.20	PR29MF12NSZ
		10	50	120	0.6	25	8-Dip	425-1183-5-ND	1.27	1.08	.98	PR26MF11NSZ
		10	50	120	0.9	25	8-Dip	425-1186-5-ND	1.53	1.30	1.18	PR29MF11NSZ
		5	50	240	0.6	25	8-Dip	425-1197-5-ND	1.63	1.38	1.25	PR36MF12NSZ
		10	50	240	0.6	25	8-Dip	425-1196-5-ND	1.50	1.27	1.15	PR36MF11NSZ
		10	50	240	0.9	25	8-Dip	425-1201-5-ND	1.59	1.33	1.13	PR39MF11NSZ
		10	50	240	1.2	25	8-Dip	425-1205-5-ND	1.50	1.25	1.07	PR3BMF11NSZ
3	1.2	10	50	120	0.9	25	8-Dip	425-1188-5-ND	1.56	1.30	1.11	PR29MF21NSZ
		5	50	240	0.3	25	8-Dip	425-1195-5-ND	1.74	1.45	1.24	PR33MD22NSZ
		5	50	240	0.6	25	8-Dip	425-1199-5-ND	1.65	1.38	1.17	PR36MF22NSZ
		5	50	240	0.9	25	8-Dip	425-1200-5-ND	2.19	1.83	1.56	PR39MD22NSZ
		5	50	240	0.9	25	8-Dip	425-1204-5-ND	1.83	1.53	1.30	PR39MF22NSZ
4	1.2	10	50	120	1.5	25	16-Dip	425-1206-5-ND	2.22	1.85	1.58	S101DH1
		10	50	240	1.5	25	16-Dip	425-1240-5-ND	2.43	2.03	1.73	S201DH1
5	1.2	8	50	120	8.0	50	4-Sip	425-1217-5-ND	8.15	7.34	6.52	S102S11
		8	50	240	8.0	50	4-Sip	425-1248-5-ND	8.70	7.83	6.96	S202S11
		10	50	240	8.0	50	4-Sip	425-1189-5-ND	5.98	5.38	4.78	PR308S31ESU
6	1.2	8	50	120	8.0	50	4-Sip	425-1218-5-ND	8.98	8.08	7.18	S102S12
		15	50	120	3.0	50	4-Sip	425-1213-5-ND	5.40	4.86	4.32	S101S16V
		8	50	240	16.0	25	4-Sip	425-1254-5-ND	7.00	6.30	5.60	S202TA1
7	1.2	8	50	120	2.0	25	4-Sip	425-1219-5-ND	3.18	2.86	2.54	S102T01
		8	50	120	8.0	50	4-Sip	425-1223-5-ND	4.13	3.72	3.30	S108T01
		8	50	240	5.0	50	4-Sip	425-1257-5-ND	4.13	3.72	3.30	S205T01
		8	50	240	5.0	50	4-Sip	425-1259-5-ND*	3.88	3.49	3.10	S205TY1
		10	50	240	8.0	50	4-Sip	425-1191-5-ND	4.78	4.30	3.82	PR308T11ESZ
8	12	8	50	120	2.0	25	4-Sip	425-1220-5-ND	3.65	3.29	2.92	S102T02
		8	50	120	8.0	50	4-Sip	425-1224-5-ND	4.35	3.92	3.48	S108T02
		8	50	240	2.0	25	4-Sip	425-1253-5-ND	4.40	3.96	3.52	S202T02
		8	50	240	2.0	25	4-Sip	425-1256-5-ND*	3.80	3.42	3.04	S202TY2
		8	50	240	5.0	50	4-Sip	425-1260-5-ND*	3.90	3.51	3.12	S205TY2
9	5	—	—	120	1.6	10	4-Sip	425-1208-5-ND	4.78	4.30	3.82	S101N11
		—	—	240	1.6	20	4-Sip	425-1241-5-ND	5.08	4.57	4.06	S201N11
10	5	—	—	120	1.6	10	4-Sip	425-1209-5-ND	4.93	4.44	3.94	S101N12
11	1.2	8	50	120	8.0	50	4-Sip	425-1214-5-ND	4.13	3.72	3.30	S102S01
		8	50	120	12.0	50	4-Sip	425-1225-5-ND	5.00	4.50	4.00	S112S01
		8	50	120	16.0	50	4-Sip	425-1227-5-ND	5.55	5.00	4.44	S116S01
		15	50	120	3.0	50	4-Sip	425-1210-5-ND	3.98	3.58	3.18	S101S05V
		8	50	240	8.0	50	4-Sip	425-1250-5-ND	4.73	4.26	3.78	S202SE1
		8	50	240	12.0	50	4-Sip	425-1265-5-ND	5.20	4.68	4.16	S212S01
		8	50	240	16.0	50	4-Sip	425-1266-5-ND	5.50	4.95	4.40	S216S01
		8	50	240	16.0	50	4-Sip	425-1268-5-ND	6.08	5.47	4.86	S216SE1
12	1.2	8	50	120	8.0	50	4-Sip	425-1215-5-ND	4.33	3.90	3.46	S102S02
		8	50	120	16.0	50	4-Sip	425-1228-5-ND	6.05	5.45	4.84	S116S02
		15	50	120	3.0	50	4-Sip	425-1211-5-ND	4.28	3.85	3.42	S101S06V
		8	50	240	8.0	50	4-Sip	425-1251-5-ND	5.25	4.73	4.20	S202SE2
		15	50	240	3.0	50	4-Sip	425-1244-5-ND	4.60	4.14	3.68	S201S06V

* Approved by TUV, No. R9750791 and DIN-VDE 0884 # Pending UL and CSA approval ‡ Cut Tape product Δ Tape & Reel product

Fig. 1

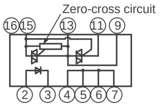

Fig. 2

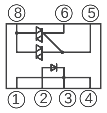

Fig. 3

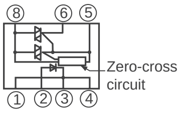

Fig. 4

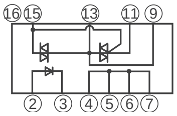

Fig. 5

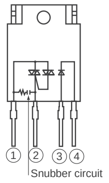

Fig. 6

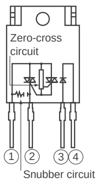

Fig. 7

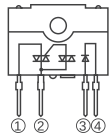

Fig. 8

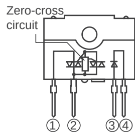

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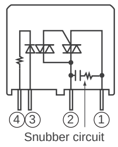

Fig. 10

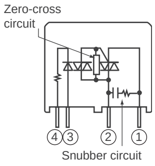

Fig. 11

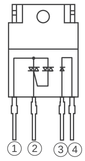

Fig. 12

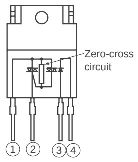

I

TOSHIBA

Solid State Relays

Fig. 1

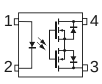

Fig. 2

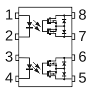

Fig. 3

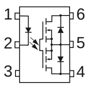

	Input Current				Output Circuit			Digi-Key	Price Each			Digi-Key	Tape & Reel Pricing
Fig.	Vf (led)	Imin (mA)	Imax	Vrange	Imax	Ton/Toff	Pkg.	Part No.	1	10	100	Part No.	1,500
1	1.15	5	25	0-60V	400	2/0.5ms	4-SOP	TLP172A-ND	1.75	1.40	1.05	—	—
	1.15	5	25	0-60V	400	2/0.5ms	4-SOP	TLP172AF-ND◊ ***NEW!***	1.75	1.40	1.05	—	—
	1.15	5	25	0-60V	500	2/0.5ms	4-Dip	TLP222A-ND	1.53	1.22	.92	—	—
	1.15	5	25	0-350V	120mA	1ms/1ms	4-Dip	TLP227GN-ND	1.88	1.50	1.13	—	—
	1.15	5	25	0-350V	110mA	1ms/1ms	4-SOP	TLP172G-ND	1.68	1.34	1.01	—	—
	1.15	5	25	0-350V	120mA	0.8/0.1ms	4-Dip	TLP222G-ND	1.35	1.08	.81	—	—
2	1.15	5	25	0-350V	120	1ms/1ms	8-SOP	TLP227G2CT-ND †	2.70	2.16	1.68	TLP227G2TR-ND	1530.00/M
	1.15	7.5	25	0-320V	100mA	4ms/4ms	8-SOP	TLP296GTACT-ND †	4.95	3.96	3.08	—	—
3	1.33	10	20	0-48V	2.5A	1.5/0.4ms	6-DIP	TLP3542-ND	8.60	6.88	5.81	—	—
	1.15	5	30	0-80V	1.25A	3ms/1ms	6-SOP	TLP3120-ND	7.00	5.60	4.73	—	—
	1.15	5	30	0-80V	1.25A	3ms/1ms	6-SOP	TLP3120F-ND◊ ***NEW!***	7.00	5.60	4.73	—	—

† Cut Tape ◊ ***RoHS Compliant***

Compare the Technological Advantages of Omron's G3VM MOS FET Relays

Current Technology vs.	The Advantages of Omron's MOS FET Relays
Reed Relays	**G3VM Series offers:** • Longer life • Lower pick-up power • Smaller size/less board space • Faster switching speed • Greater resistance to shock/vibration • Higher isolation voltages
Photocouplers	**G3VM Series offers:** • Linear ON-resistance • High isolation voltage and increased sensitivity • The ability to switch AC and DC loads • Voltage control up to 600V
Electromechanical Relays	**G3VM Series offers:** • Longer life • Lower pick-up power • Lower profile and smaller footprint • High-speed operation • Greater resistance to shock and vibration • Higher isolation voltages

Current Technology vs.	The Advantages of Omron's MOS FET Relays
Solid State Relays with Thyristor Output	**G3VM Series offers:** • Linear ON-resistance • The ability to switch AC and DC loads • The ability to control high frequency loads • No signal distortion
Solid State Relays with BJT Output	**G3VM Series offers:** • Lower ON-state offset voltages • Minimal leakage current • Better voltage control • No signal distortion
Solid State Relays with Triac Output	**G3VM Series offers:** • Minimal leakage current • Increased protection, eliminating the need for a snubber circuit • No signal distortion

Advantages of MOS FET Technology and Construction

60% smaller than reed relays and still outperforms the competition.

The G3VM delivers design flexibility without sacrificing accuracy or performance. It's now possible for designers to give their products more functionality and reduce overall machine size.

Contact Resistance

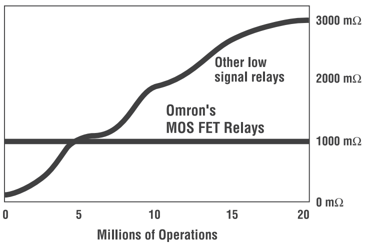

100,000 hours and still going

An independent firm ran tests on the only part of the G3VM that might possibly waver in performance - the LED chip. They simulated operation for a total of 100,000 hours (equivalent to more than 11 years!) and the G3VM was still operating successfully.

Mechanical Life

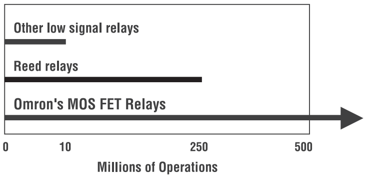

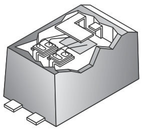

For Greatest Accuracy — it has to be White Resin

Omron's White Mold Resin

Competitor's Black Mold Resin

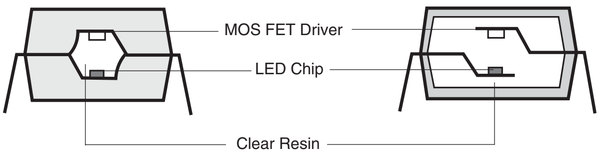

For maximum performance and accuracy, the G3VM is cast in white resin, which reflects more light from the LED chip to the MOS FET driver than black resin, which absorbs light. White resin also helps the relay dissipate heat more effectively. This means relays can be placed closer together on circuit boards with no worry of overheating, and no loss of accuracy or function.

G3VM — LR Series (SSOP MOS FET Relays)

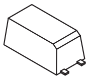

Specifications (1 Form A)

Part Number	RON (typ.)	COUT (typ.)	C x R (pF x Ω)	Output Voltage
G3VM-21LR	5	1	5	20V
G3VM-21LR1	0.8	5	5	20V
G3VM-41LR3	25	0.6	15	40V
G3VM-41LR4	2	5	10	40V
G3VM-41LR5	1	10	10	40V
G3VM-41LR6	10	1	10	40V

G3VM — GR Series (SOP MOS FET Relays)

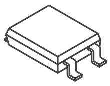

Specifications (1 Form A)

Part Number	RON (typ.)	COUT (typ.)	C x R (pF x Ω)	Output Voltage
G3VM-21GR	5	1	5	20V
G3VM-21GR1	1	5	5	20V
G3VM-41GR3	25	0.6	15	40V
G3VM-41GR4	2	5	10	40V
G3VM-41GR5	1	10	10	40V
G3VM-41GR6	10	1	10	40V

G3VM Higher Current Models

Part Number	Load Current	Load Voltage	RON	Dielectric Strength
G3VM-61CR	2 Amps	60V	120m Ohms	2,500VAC
G3VM-61FR	2 Amps	60V	120m Ohms	2,500VAC
G3VM-61A1	500mA	60V	1 Ohm	2,500VAC
G3VM-61B1	500mA	60V	1 Ohm	2,500VAC
G3VM-61D1	500mA	60V	1 Ohm	2,500VAC
G3VM-61E1	500mA	60V	1 Ohm	2,500VAC

G3VM High Voltage Models

Part Number	Load Current	Load Voltage	RON	Dielectric Strength
G3VM-401BY	120mA	400V	17 Ohms	5,000VAC
G3VM-401EY	120mA	400V	18 Ohms	5,000VAC
G3VM-601BY	100mA	600V	25 Ohms	5,000VAC
G3VM-601EY	100mA	600V	26 Ohms	5,000VAC

OMRON Solid State Relays

Omron's G3VM relays are PCB and SMT solid state switches that are capable of controlling voltages up to 600V. Extremely low input currents, low ON-State Resistance and small packages make these relays ideal for microprocessor and logic switching. Current limiting input resistor required for operation. Packages include 4, 6 and 8 pin Dip, SMT, or SOP packages or use the extremely small 4-SSOP package for extremely small board space requirements. Relays will switch both AC or DC voltages. G3M and G3MB relays are larger current relays but offered in a SIP package to reduce board space. Perfect for controlling pumps, alarms, solenoids and other inductive/capacitive loads. Use zero-cross for general power switching or highly inductive loads or use Phase Controlled for output control of motor speed controls or light dimming. The G3R relays are drop-in replacements to the popular G2R Eletromechanical relays. Perfect for compact Din-Rail mounting and applications requiring the long life of solid state relays. G3TC series are replacement to standard I/O modules. Replaces Opto22, Gordos and many other I/O modules. Perfect for multiple output controls.

Fig.	Contact Arrange.	Input Voltage	Input Current (mA)	Output Volt. (Peak)	Output Current	ON Resist. (Ω)	Package	Digi-Key Part No.	Price Each			Omron Part No.
									1	25	50	
G3VM Series — Ultra Small MOSFET Relays												
1	SPST-NO	1.15V	10 ~ 30	20V	300mA	1.2	4-SSOP	Z1622-ND	18.14	16.33	14.51	G3VM-21LR1
		1.15V	7 ~ 30	20V	160mA	8	4-SSOP	Z2075-ND	18.14	16.33	14.51	G3VM-21LR
		1.15V	10 ~ 30	40V	80mA	1	4-SSOP	Z1623-ND	18.14	16.33	14.51	G3VM-41LR3
		1.15V	10 ~ 30	40V	250mA	1	4-SSOP	Z1624-ND	18.14	16.33	14.51	G3VM-41LR4
		1.15V	10 ~ 30	40V	300mA	1.5	4-SSOP	Z1625-ND	18.14	16.33	14.51	G3VM-41LR5
		1.15V	10 ~ 30	40V	120mA	15	4-SSOP	Z1626-ND	18.14	16.33	14.51	G3VM-41LR6
G3VM Series — Solid State MOSFET Relays												
2	SPST-NO	1.15V	7 ~ 30	20V	300mA	1.5	4-SOP	Z2077-ND	5.55	5.00	4.44	G3VM-21GR1
		1.15V	7 ~ 30	20V	160mA	8	4-SOP	Z2076-ND	5.55	5.00	4.44	G3VM-21GR
		1.15V	10 ~ 30	40V	80mA	25	4-SOP	Z2115-ND	3.30	2.98	2.65	G3VM-41GR3
		1.15V	10 ~ 30	40V	250mA	2	4-SOP	Z2116-ND	3.30	2.98	2.65	G3VM-41GR4
		1.15V	10 ~ 30	40V	300mA	1.5	4-SOP	Z2078-ND	5.55	5.00	4.44	G3VM-41GR5
	SPST-NO	1.15V	10 ~ 30	40V	120mA	15	4-SOP	Z2079-ND	5.55	5.00	4.44	G3VM-41GR6
		1.15V	5 ~ 25	350V	120mA	22	4-Dip	Z150-ND	3.10	2.79	2.48	G3VM-2
		1.15V	5 ~ 25	350V	120mA	22	4-SMT	Z151-ND	3.10	2.79	2.48	G3VM-2F
		1.15V	5 ~ 25	350V	120mA	22	6-Dip	Z152-ND	3.10	2.79	2.48	G3VM-3
		1.15V	5 ~ 25	350V	120mA	22	6-SMT	Z153-ND	3.10	2.79	2.48	G3VM-3F-S
	DPST-NO	1.15V	5 ~ 25	350V	100mA	22	8-Dip	Z154-ND	6.28	5.65	5.02	G3VM-W
	DPST-NO	1.15V	5 ~ 25	350V	100mA	22	8-SMT	Z155-ND	6.28	5.65	5.02	G3VM-WF
	SPST-NO	1.15V	7.5 ~ 25	60V	300mA	1.4	6-Dip	Z156-ND	3.10	2.79	2.48	G3VM-V
	SPST-NO	1.15V	7.5 ~ 25	60V	300mA	1.4	6-SMT	Z157-ND	3.10	2.79	2.48	G3VM-VF
	SPST-NO	1.15V	7.5 ~ 25	60V	300mA	2	6-Dip	Z227-ND	9.03	8.13	7.22	G3VM-XN-S
	SPST-NO	1.15V	7.5 ~ 25	60V	300mA	2	6-SMT	Z228-ND	9.03	8.13	7.22	G3VM-XNF-S
		1.15V	7.5 ~ 25	400V	150mA	12	6-Dip	Z229-ND	9.03	8.13	7.22	G3VM-4N-S
		1.15V	7.5 ~ 25	400V	150mA	12	6-SMT	Z230-ND	9.03	8.13	7.22	G3VM-4NF-S
		1.15V	5 ~ 25	60V	300mA	12	4-SOP	Z1039-ND	4.43	3.99	3.54	G3VM-S1
		1.15V	5 ~ 25	400V	120mA	35	4-Dip	Z2089-ND	5.30	4.77	4.24	G3VM-401A
	SPST-NO	1.15V	5 ~ 25	400V	120mA	35	6-DiP	Z2091-ND	5.30	4.77	4.24	G3VM-401B
		1.15V	5 ~ 25	400V	120mA	35	4-SMT	Z2090-ND	5.30	4.77	4.24	G3VM-401D
		1.15V	5 ~ 25	400V	120mA	35	6-SMT	Z2092-ND	5.30	4.77	4.24	G3VM-401E
		1.15V	5 ~ 25	400V	120mA	35	4-SOP	Z2095-ND	4.77	4.30	3.82	G3VM-401G
		1.15V	5 ~ 25	400V	120mA	35	6-SOP	Z2096-ND	5.19	4.68	4.16	G3VM-401H
	SPST-NO	1.15V	5 ~ 25	400V	120mA	35	6-Dip	Z2093-ND	5.56	5.01	4.45	G3VM-401BY
	SPST-NO	1.15V	5 ~ 25	400V	120mA	35	6-SMT	Z2094-ND	5.71	5.15	4.57	G3VM-401EY
	DPST-NO	1.15V	5 ~ 25	400V	120mA	35	8-Dip	Z2097-ND	7.65	6.89	6.13	G3VM-402C
	DPST-NO	1.15V	5 ~ 25	400V	120mA	35	8-SMT	Z2098-ND	7.65	6.89	6.13	G3VM-402F
	DPST-NO	1.15V	5 ~ 25	400V	120mA	35	8-SOP	Z2099-ND	7.65	6.89	6.13	G3VM-402J
	SPST-NO	1.15V	5 ~ 25	600V	100mA	35	6-Dip	Z1040-ND	8.60	7.74	6.88	G3VM-601BY
	SPST-NO	1.15V	5 ~ 25	600V	100mA	35	6-SMT	Z1041-ND	8.60	7.74	6.88	G3VM-601EY
	SPST-NO	1.15V	5 ~ 25	350V	120mA	35	4-Dip	Z2080-ND	3.61	3.25	2.89	G3VM-351A
	SPST-NO	1.15V	5 ~ 25	350V	120mA	35	6-Dip	Z2081-ND	3.54	3.19	2.84	G3VM-351B
	DPST-NO	1.15V	5 ~ 25	350V	120mA	35	8-Dip	Z2086-ND	5.19	4.68	4.16	G3VM-352C
	SPST-NO	1.15V	5 ~ 25	350V	120mA	35	4-SMT	Z2082-ND	3.72	3.35	2.98	G3VM-351D
	SPST-NO	1.15V	5 ~ 25	350V	120mA	35	6-SMT	Z2083-ND	3.61	3.25	2.89	G3VM-351E
	DPST-NO	1.15V	5 ~ 25	350V	120mA	35	8-SMT	Z2087-ND	5.19	4.68	4.16	G3VM-352F
	SPST-NO	1.15V	5 ~ 25	350V	110mA	35	4-SOP	Z2084-ND	4.55	4.10	3.65	G3VM-351G
	SPST-NO	1.15V	5 ~25	350V	120mA	35	4-SOP	Z2457-ND ***NEW!***	4.49	4.05	3.60	G3VM-351GL
	SPST-NO	1.15V	5 ~ 25	350V	110mA	35	6-SOP	Z2085-ND	6.41	5.77	5.13	G3VM-351H
	DPST-NO	1.15V	5 ~ 25	350V	110mA	35	8-SOP	Z2088-ND	5.19	4.68	4.16	G3VM-352J
	DPST-NO	1.15V	5 ~ 25	200V	150mA	25	8-Dip	Z1042-ND	17.70	15.93	14.16	G3VM-354C
	DPST-NC	1.15V	5 ~ 25	350V	100mA	25	8-Dip	Z2453-ND ***NEW!***	10.52	9.48	8.42	G3VM-354C1
	DPST-NO	1.15V	5 ~ 25	200V	150mA	25	8-SMT	Z1043-ND	17.70	15.93	14.16	G3VM-354F
	DPST-NC	1.15V	5 ~ 25	350V	100mA	25	8-SMT	Z2454-ND ***NEW!***	10.59	9.54	8.48	G3VM-354F1
	DPST-NC	1.15V	5 ~ 25	350V	120mA	25	8-SOP	Z2455-ND ***NEW!***	21.02	18.92	16.82	G3VM-354J
	DPST-NC	1.15V	5 ~ 25	350V	90mA	25	8-SOP	Z2456-ND ***NEW!***	12.28	11.05	9.82	G3VM-354J1
	SPST-NO	1.15V	5 ~ 25	400V	150mA	25	4-Dip	Z1044-ND	9.45	8.51	7.56	G3VM-353A
	SPST-NC	1.15V	5 ~ 25	350V	100mA	15	4-Dip	Z2445-ND ***NEW!***	5.26	4.74	4.21	G3VM-353A1
	SPST-NO	1.15V	5 ~ 25	400V	150mA	25	6-Dip	Z1045-ND	9.45	8.51	7.56	G3VM-353B
	SPST-NC	1.15V	5 ~ 25	350V	100mA	50	6-Dip	Z2447-ND ***NEW!***	5.68	5.11	4.55	G3VM-353B1
	SPST-NO	1.15V	5 ~ 25	400V	150mA	25	4-SMT	Z1046-ND	9.97	8.98	7.98	G3VM-353D
	SPST-NC	1.15V	5 ~ 25	350V	100MA	50	4-SMT	Z2446-ND ***NEW!***	5.33	4.80	4.27	G3VM-353D1
	SPST-NO	1.15V	5 ~ 25	400V	150mA	25	6-SMT	Z1047-ND	9.45	8.51	7.56	G3VM-353E
	SPST-NC	1.15V	5 ~ 25	350V	100mA	50	6-SMT	Z2448-ND ***NEW!***	5.82	5.24	4.66	G3VM-353E1
		1.15V	5 ~ 25	350V	120mA	25	4-SOP	Z2449-ND ***NEW!***	9.97	8.98	7.98	G3VM-353G
		1.15V	5 ~ 25	350V	90mA	50	4-SOP	Z2450-ND ***NEW!***	6.17	5.56	4.94	G3VM-353G1
		1.15V	5 ~ 25	350V	120mA	25	6-SOP	Z2451-ND ***NEW!***	10.06	9.06	8.05	G3VM-353H
		1.15V	5 ~ 25	350V	90mA	50	6-SOP	Z2452-ND ***NEW!***	6.59	5.94	5.28	G3VM-353H1
	SPST-NO	1.15V	5 ~ 25	60V	500mA	2	4-Dip	Z2100-ND	4.16	3.75	3.33	G3VM-61A1
		1.15V	5 ~ 25	60V	500mA	2	4-SMT	Z2101-ND	4.16	3.75	3.33	G3VM-61D1
		1.15V	5 ~ 25	60V	500mA	2	6-Dip	Z2102-ND	4.16	3.75	3.33	G3VM-61B1
		1.15V	5 ~ 25	60V	500mA	2	6-SMT	Z2103-ND	4.32	3.89	3.46	G3VM-61E1
		1.15V	5 ~ 25	60V	400mA	8	4-SOP	Z2106-ND	4.56	4.11	3.65	G3VM-61G1
	SPST-NO	1.15V	5 ~ 25	60V	400mA	2	6-SOP	Z2107-ND	4.16	3.75	3.33	G3VM-61H1
		1.33V	10 ~ 20	60V	2.5A	.10	6-Dip	Z2442-ND ***NEW!***	20.20	18.18	16.16	G3VM-61BR
		1.2V	10 ~ 30	60V	2,000mA	.12	8-Dip	Z2104-ND	21.57	19.42	17.26	G3VM-61CR
		1.33V	10 ~ 20	60V	2.5A	.10	6-SMT	Z2443-ND ***NEW!***	20.27	18.25	16.22	G3VM-61ER
		1.15V	10 ~ 30	60V	2,000mA	.12	8-SMT	Z2105-ND	21.57	19.42	17.26	G3VM-61FR
	SPST-NO	1.15V	5 ~ 20	60V	1A	.70	4-SOP	Z2444-ND ***NEW!***	9.47	8.53	7.58	G3VM-61GR1
	DPST-NO	1.15V	5 ~ 25	60V	500mA	2	8-SMT	Z2108-ND	6.58	5.92	5.27	G3VM-62F1
	DPST-NO	1.15V	5 ~ 25	60V	400mA	2	8-SOP	Z2109-ND	9.28	8.36	7.43	G3VM-62J1
	SPST-NO	1.15V	5 ~ 30	80V	350mA	1.2	4-SOP	Z2459-ND ***NEW!***	9.65	8.69	7.73	G3VM-81G1
	SPST-NO	1.15V	5 ~ 25	80V	1250mA	.15	6-SOP	Z2110-ND	21.02	18.92	16.82	G3VM-81HR
	SPST-NO	1.15V	5 ~ 25	400V	150mA	12	6-Dip	Z158-ND	5.68	5.11	4.54	G3VM-6
		1.15V	5 ~ 25	400V	150mA	12	6-SMT	Z159-ND	5.68	5.11	4.54	G3VM-6F
		1.15V	5 ~ 25	350V	120mA	35	4-SOP	Z160-ND	3.58	3.22	2.86	G3VM-S2
		1.15V	5 ~ 25	350V	120mA	35	6-SOP	Z161-ND	6.00	5.40	4.80	G3VM-S3
		1.15V	5 ~ 25	200V	150mA	35	4-SOP	Z162-ND	3.95	3.56	3.16	G3VM-S5
	DPST-NO	1 .15V	5 ~ 25	350V	120mA	22	8-SOP	Z163-ND	7.95	7.16	6.36	G3VM-SW
	DPST-NO	1.15V	5 ~ 25	60V	200mA	2	8-SOP	Z164-ND	7.95	7.16	6.36	G3VM-SY
	SPST-NO/NC	1.15V	5 ~ 25	350V	120mA	25	8-Dip	Z2460-ND ***NEW!***	13.65	12.29	10.93	G3VM-355CR
		1.15V	5 ~ 25	350V	120mA	25	8-SMT	Z2461-ND ***NEW!***	13.65	12.29	10.93	G3VM-355FR
		1.15V	5 ~ 25	350V	120mA	25	8-SOP	Z2462-ND ***NEW!***	13.16	11.85	10.53	G3VM-355JR

(Continued)

Fig. 1 — G3VM-LR Series

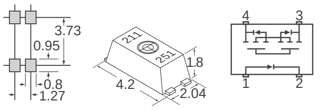

Fig. 2 — G3VM Series

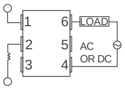

MOSFET relays boast performance with long life, low input drive, and high-speed response to handle minute analog signals with minimum current leakage. The standard G3VM MOSFET relays have dielectric strength of 2,500 VAC between I/O terminals (except SOP relays).

6-SOP

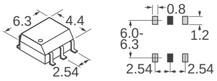

Does not include shaded pins for 4-SOP

6-DIP

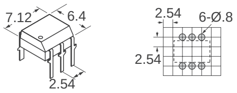

6-SMT

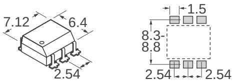

8-SOP

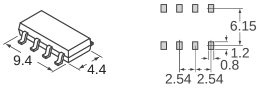

Fig. 3 — G3M Series

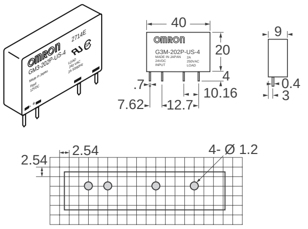

Features: • Zero-cross or Phase Control type • Thin design for high-density PCB applications • DC input — AC output for 2A load • Footprint compatible with industry standard I/O modules • Low cost
Characteristic Data: • Operate time: 1ms maximum • Output ON voltage drop: 1.6V (RMS) maximum • Leakage Current: 2mA maximum (at 100VAC); 5mA maximum (at 200VAC) • Operating Temperature: -30°C ~ 80°C

Fig. 4 — G3MB/MC Series

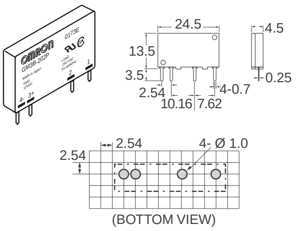

Features: • Low-cost, subminiature, PCB-mounting, solid-state relay switching 2A • DC input: AC output for 2A load at 25°C • Mono-block lead frame facilitates heat dissipation without use of heat sink • Smaller Footprint (Approximately 20% smaller than G3MB) is ideal for close PCB Mounting applications • Built-In Snubber Circuit
Characteristic Data: • Leakage Current: 1.5mA maximum • Operating Temperature: -30°C ~ 80°C

OMRON Solid State Relays *(Cont.)*

Fig.	Contact Arrange.	Input Voltage	Input Current (mA)	Output Volt. (Peak)	Output Current	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
				G3M Series — Standard Sip Package							
3	SPST-NO	4 ~ 6 VDC	—	75 ~ 132 VAC	.1 ~ 2A	Phase Controlled	Z903-ND	7.38	6.64	5.90	G3M-102PL-US-4-DC5
		9.6 ~ 14.4 VDC	—	75 ~ 132 VAC	.1 ~ 2A		Z904-ND	7.38	6.64	5.90	G3M-102PL-US-4-DC12
		19.2 ~ 28.8 VDC	—	75 ~ 132 VAC	.1 ~ 2A		Z905-ND	7.38	6.64	5.90	G3M-102PL-US-4-DC24
		4 ~ 6 VDC	—	75 ~ 264 VAC	.1 ~ 2A		Z906-ND	8.35	7.52	6.68	G3M-202PL-US-4-DC5
		9.6 ~ 14.4 VDC	—	75 ~ 264 VAC	.1 ~ 2A		Z907-ND	8.35	7.52	6.68	G3M-202PL-US-4-DC12
		19.2 ~ 28.8 VDC	—	75 ~ 264 VAC	.1 ~ 2A		Z908-ND	8.35	7.52	6.68	G3M-202PL-US-4-DC24
	SPST-NO	4 ~ 6 VDC	—	75 ~ 264 VAC	.1 ~ 2A	Zero Cross	Z900-ND	9.00	8.10	7.20	G3M-202P-US-4-DC5
		9.6 ~ 14.4 VDC	—	75 ~ 264 VAC	.1 ~ 2A		Z901-ND	9.00	8.10	7.20	G3M-202P-US-4-DC12
		19.2 ~ 28.8 VDC	—	75 ~ 264 VAC	.1 ~ 2A		Z902-ND	9.90	8.91	7.92	G3M-202P-US-4-DC24
				G3MB Series — Mini Sip Package							
4	SPST-NO	4 ~ 6 VDC	—	75 ~ 132 VAC	.1 ~ 2A	Phase Controlled	Z912-ND	3.53	3.18	2.82	G3MB-102PL-DC5
		9.6 ~ 14.4 VDC	—	75 ~ 132 VAC	.1 ~ 2A		Z913-ND	3.53	3.18	2.82	G3MB-102PL-DC12
		19.2 ~ 28.8 VDC	—	75 ~ 132 VAC	.1 ~ 2A		Z914-ND	3.53	3.18	2.82	G3MB-102PL-DC24
		4 ~ 6 VDC	—	75 ~ 264 VAC	.1 ~ 2A		Z915-ND	3.93	3.54	3.14	G3MB-202PL-DC5
		9.6 ~ 14.4 VDC	—	75 ~ 264 VAC	.1 ~ 2A		Z916-ND	3.93	3.54	3.14	G3MB-202PL-DC12
		19.2 ~ 28.8 VDC	—	75 ~ 264 VAC	.1 ~ 2A		Z917-ND	3.93	3.54	3.14	G3MB-202PL-DC24
	SPST-NO	4 ~ 6 VDC	—	75 ~ 264 VAC	.1 ~ 2A	Zero Cross	Z909-ND	4.33	3.90	3.46	G3MB-202P-DC5
		9.6 ~ 14.4 VDC	—	75 ~ 264 VAC	.1 ~ 2A		Z910-ND	4.33	3.90	3.46	G3MB-202P-DC12
		19.2 ~ 28.8 VDC	—	75 ~ 264 VAC	.1 ~ 2A		Z911-ND	4.33	3.90	3.46	G3MB-202P-DC24
				G3MC Series — Micro Sip Package							
4	SPST-NO	4 ~ 6 VDC	—	75 ~ 132 VAC	.1 ~ 1A	Phase Controlled	Z1196-ND	3.40	3.06	2.72	G3MC-101PL-DC5
		9.6 ~ 14.4 VDC	—	75 ~ 132 VAC	.1 ~ 1A		Z1197-ND	3.40	3.06	2.72	G3MC-101PL-DC12
		19.2 ~ 28.8 VDC	—	75 ~ 132 VAC	.1 ~ 1A		Z1198-ND	3.40	3.06	2.72	G3MC-101PL-DC24
	SPST-NO	4 ~ 6 VDC	—	75 ~ 132 VAC	.1 ~ 1A	Zero Cross	Z1195-ND	3.68	3.31	2.94	G3MC-101P-DC5
		9.6 ~ 14.4 VDC	—	75 ~ 132 VAC	.1 ~ 1A		Z1236-ND	3.73	3.36	2.98	G3MC-101P-DC12
		19.2 ~ 28.8 VDC	—	75 ~ 132 VAC	.1 ~ 1A		Z1237-ND	3.73	3.36	2.98	G3MC-101P-DC24
				G3R Series — QC Style Package							
5	SPST-NO	4 ~ 6 VDC	8	4 ~ 32 VDC	.1A	Phase Controlled	Z1190-ND	18.18	16.36	14.54	G3R-IDZR1SN-DC5
		12 ~ 24 VDC	8	4 ~ 32 VDC	.1A		Z1191-ND	18.18	16.36	14.54	G3R-IDZR1SN-DC12-24
		100 ~ 240 VAC	15	4 ~ 32 VDC	.1A		Z1234-ND	22.88	20.59	18.30	G3R-IAZR1SN-AC100/240
	SPST-NO	5 ~ 24 VDC	8	4 ~ 60 VDC	.01 ~ 2A	Zero Cross	Z1193-ND	20.28	18.25	16.22	G3R-ODX02SN-DC5-24
		5 ~ 24 VDC	8	40 ~ 200 VDC	.01 ~ 1.5A		Z1194-ND	23.33	21.00	18.66	G3R-OD201SN-DC5-24
		5 ~ 24 VDC	15	75 ~ 264 VAC	.05 ~ 2A		Z1192-ND	22.67	20.41	18.14	G3R-OA202SZN-DC5-24
		5 ~ 24 VDC	15	75 ~ 264 VAC	.05 ~ 2A		Z1235-ND	30.10	27.09	24.08	G3R-OA202SLN-DC5-24
				G3TC I/O Modules — Standard Sip Package							
6	SPST-NO	180 ~ 280 VAC/DC	—	4.5 ~ 6 VDC	50mA	Yellow	Z2018-ND	14.91	13.42	11.93	G3TC-IAC-5A AC/DC240
		90 ~ 140 VAC/DC	—	12 ~ 18 VDC	50mA		Z2019-ND	13.52	12.17	10.82	G3TC-IAC-15 AC/DC120
		90 ~ 140 VAC/DC	—	20 ~ 30 VDC	50mA		Z2020-ND	13.52	12.17	10.82	G3TC-IAC-24 AC/DC120
		90 ~ 140 VAC/DC	—	4.5 ~ 6 VDC	50mA		Z2021-ND	13.52	12.17	10.82	G3TC-IAC5 AC/DC120
	SPST-NO	2.5 ~ 8 VDC	—	75 ~ 140 VAC	3A	Black	Z2027-ND	14.84	13.36	11.88	G3TC-OAC5-DC5
		9 ~ 16 VDC	—	75 ~ 140 VAC	3A		Z2025-ND	14.05	12.65	11.24	G3TC-OAC15-DC15
		18 ~ 32 VDC	—	75 ~ 140 VAC	3A		Z2026-ND	14.05	12.65	11.24	G3TC-OAC24-DC24
		2.5 ~ 8 VDC	—	5 ~ 60 VAC	3A		Z2028-ND	14.90	13.41	11.92	G3TCOAC5ADC5
	SPST-NO	10-32 VDC/15-32 VAC	—	4.5 ~ 6 VDC	50mA	White	Z2024-ND	13.38	12.05	10.71	G3TC-IDC5-DC/AC24
		10-32 VDC/15-32 VAC	—	12 ~ 18 VDC	50mA		Z2022-ND	13.38	12.05	10.71	G3TC-IDC15-DC/AC24
		10-32 VDC/15-32 VAC	—	20 ~ 30 VDC	50 mA		Z2023-ND	13.38	12.05	10.71	G3TC-IDC24-DC/AC24
	SPST-NO	2.5 ~ 8 VDC	—	5 ~ 60 VDC	3A	Red	Z2031-ND	14.18	12.76	11.35	G3TC-ODC5-DC5
		9 ~ 16 VDC	—	5 ~ 60 VDC	3A		Z2029-ND	14.18	12.76	11.35	G3TC-ODC15-DC15
		18 ~ 32 VDC	—	5 ~ 60 VDC	3A		Z2030-ND	14.18	12.76	11.35	G3TC-ODC24-DC24
		2.5 ~ 8 VDC	—	5 ~ 200 VDC	1A		Z2032-ND	16.24	14.62	13.00	G3TC-ODC5A-DC5

Fig. 5 — G3R Series

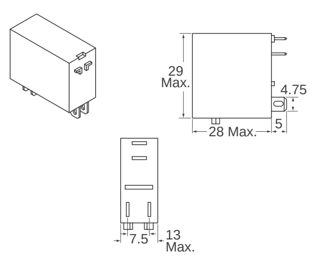

Features: • Input / Output Modules that have the same footprint as the G2R • Incorporating an easy-to-see monitoring indicator **Characteristic Data:** • Leakage Current: 5µA maximum • Operating Temperature: -30°C ~ 80°C • For socket use Z855-ND

Fig. 6 — G3TC Series

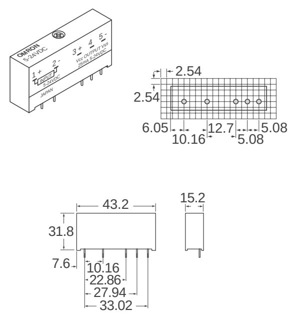

Features: • Standard sized I/O modules for replacement to OPTO22 • Continental and Gordos relays

Solid State Relays

Fig. 1 — G3NE Series

Features:
- Ideal for panel mounted applications • Compact aluminum PCB and power elements used • Quick-connect #110 input terminals and #250 output connections

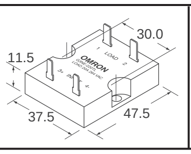

Fig. 2 — G3NA Series

Features: Built-in varistor effectively absorbs external surges • Protective cover for greater safety is standard • Operation indicator (red LED) is standard **Characteristic Data:** • Leakage Current: 5mA maximum (at 100VAC), 10mA maximum (at 200VAC) • Operating Temperature: -30°C ~ 80°C

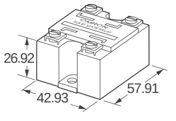

Fig. 3 — Accessories

Omron heat sinks are designed to dissipate heat buildup during normal operation. Pretapped holes allow exact placement.
Heat sink grease or a similar product should be used at the time of placement.

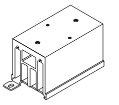

Fig.	Contact Arrange.	Input Voltage	Output Volt. (Peak)	Output Current	Package	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
				G3NE Series						
1	SPST-NO	4-6VDC	75 ~ 264VAC	.1 ~ 10A	QC Style	Z175-ND	16.58	14.92	13.26	G3NE-210T-US-DC5
	SPST-NO	9.6-14.1VDC	75 ~ 264VAC	.1 ~ 10A	QC Style	Z176-ND	16.58	14.92	13.26	G3NE-210T-US-DC12
	SPST-NO	19.2-28.8VDC	75 ~ 264VAC	.1 ~ 10A	QC Style	Z177-ND	16.58	14.92	13.26	G3NE-210T-US-DC24
	SPST-NO	4-6VDC	75 ~ 264VAC	.1 ~ 20A	QC Style	Z178-ND	19.43	17.49	15.54	G3NE-220T-US-DC5
	SPST-NO	9.6-14.1VDC	75 ~ 264VAC	.1 ~ 20A	QC Style	Z179-ND	19.43	17.49	15.54	G3NE-220T-US-DC12
	SPST-NO	19.2-28.8VDC	75 ~ 264VAC	.1 ~ 20A	QC Style	Z180-ND	19.43	17.49	15.54	G3NE-220T-US-DC24
				G3NA Series						
2	SPST-NO	5-24VDC	19 ~ 264VAC	.1 ~ 5A	Screw Style	Z165-ND	18.38	16.54	14.70	G3NA-205B-DC5-24
	SPST-NO	100-120VAC	19 ~ 264VAC	.1 ~ 5A	Screw Style	Z166-ND	23.13	20.82	18.50	G3NA-205B-AC100-120
	SPST-NO	200-240VAC	19 ~ 264VAC	.1 ~ 5A	Screw Style	Z167-ND	23.13	20.82	18.50	G3NA-205B-AC200-240
	SPST-NO	4-32VDC	19 ~ 264VAC	.1 ~ 10A	Screw Style	Z918-ND	18.80	16.92	15.04	G3NA-210B-DC5-24
	SPST-NO	75-132VAC	19 ~ 264VAC	.1 ~ 10A	Screw Style	Z919-ND	25.18	22.66	20.14	G3NA-210B-AC100-120
	SPST-NO	150-264VAC	19 ~ 264VAC	.1 ~ 10A	Screw Style	Z920-ND	25.18	22.66	20.14	G3NA-210B-AC200-240
	SPST-NO	5-24VDC	19 ~ 264VAC	.1 ~ 20A	Screw Style	Z2253-ND	22.67	20.41	18.14	G3NA-220B-DC5-24
	SPST-NO	4-32VDC	19 ~ 264VAC	.1 ~ 25A	Screw Style	Z921-ND	24.45	22.01	19.56	G3NA-225B-DC5-24
	SPST-NO	75-132VAC	19 ~ 264VAC	.1 ~ 25A	Screw Style	Z922-ND	29.45	26.51	23.56	G3NA-225B-AC100-120
	SPST-NO	150-264VAC	19 ~ 264VAC	.1 ~ 25A	Screw Style	Z923-ND	31.38	28.24	25.10	G3NA-225B-AC200-240
	SPST-NO	5-24VDC	180 ~ 528VAC	.1 ~ 25A	Screw Style	Z170-ND	52.88	47.59	42.30	G3NA-425B-DC5-24
	SPST-NO	100-120VAC	180 ~ 528VAC	.1 ~ 25A	Screw Style	Z171-ND	55.23	49.71	44.18	G3NA-425B-AC100-120
	SPST-NO	5-24VDC	19 ~ 264VAC	.1 ~ 40A	Screw Style	Z172-ND	38.08	34.27	30.46	G3NA-240B-DC5-24
	SPST-NO	100-120VAC	19 ~ 264VAC	.1 ~ 40A	Screw Style	Z173-ND	42.83	38.55	34.26	G3NA-240B-AC100-240
	SPST-NO	200-240VAC	19 ~ 264VAC	.1 ~ 40A	Screw Style	Z174-ND	42.43	38.19	33.94	G3NA-240B-AC200-240
	SPST-NO	100-120VAC	19 ~ 264VAC	.1 ~ 75A	Screw Style	Z2068-ND	76.83	69.15	61.47	G3NA-275B-UTU-AC100-240
	SPST-NO	5-24VDC	19 ~ 264VAC	.1 ~ 90A	Screw Style	Z2070-ND	81.10	73.00	64.89	G3NA-290B-UTU-DC5-24
	SPST-NO	100-120VAC	19 ~ 264VAC	.1 ~ 90A	Screw Style	Z2069-ND	81.10	73.00	64.89	G3NA-290B-UTU-AC100-240
	SPST-NO	5-24VDC	19 ~ 440VAC	.1 ~ 75A	Screw Style	Z2071-ND	89.64	80.68	71.72	G3NA-475B-UTU-DC5-24
	SPST-NO	100-120VAC	19 ~ 440VAC	.1 ~ 75A	Screw Style	Z2072-ND	89.69	80.73	71.76	G3NA-475B-UTU-AC100-240
	SPST-NO	5-24VDC	19 ~ 440VAC	.1 ~ 90A	Screw Style	Z2073-ND	98.18	88.36	78.55	G3NA-490B-UTU-DC5-24
	SPST-NO	100-120VAC	19 ~ 440VAC	.1 ~ 90A	Screw Style	Z2074-ND	98.18	88.36	78.55	G3NA-490B-UTU-AC100-240
				G3NA Series						
2	SPST-NO	5-24VDC	4 ~ 220VDC	.1 ~ 10A	Screw Style	Z168-ND	33.45	30.11	26.76	G3NA-D210B-DC5-24
	SPST-NO	100-120VAC	4 ~ 220VDC	.1 ~ 10A	Screw Style	Z169-ND	34.83	31.35	27.86	G3NA-D210B-AC100-240
				Accessories						
3	Track Mount Heat Sink for 10A Relays (77 x 44mm)					Z924-ND	13.58	12.22	10.86	Y92B-N50
	Track Mount Heat Sink for 10A/25A Relays (88.90 x 77mm)					Z925-ND	21.95	19.76	17.56	Y92B-N100
	Track Mount Heat Sink for 25A Relays (100 x 104mm)					Z926-ND	29.95	26.96	23.96	Y92B-N150
	Chassis Mount Heat Sink for 10A (100 x 100mm)					Z927-ND	14.70	13.23	11.76	Y92B-A100
	Chassis Mount Heat Sink for 25A (150 x 100.5mm)					Z928-ND	20.60	18.54	16.48	Y92B-A150N
Optional Din Rail Mount Bracket for use with G3NA Relays						Z2251-ND	18.75	16.88	15.00	R99-12 FOR G3NA

OCMOS FET Solid State Relays

Fig.	V_{load} V	I_{load} mA	PD mW	Ron Ohms	t_{on} ms	t_{off} ms	Output Type	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel	
										1	10	100		Size	Pricing
1	60	1800	560	0.2	3.0	1.0	1ch NO	Dip	PS710A-1AA-ND†	6.90	6.21	5.29	—	—	—
1	60	1800	560	0.2	3.0	1.0	1ch NO	SMT	PS710AL-1AA-ND†	6.53	5.88	5.01	—	—	—
1	60	2500	625	0.1	5.0	0.2	1ch NO	Dip	PS710B-1A-A-ND†	7.83	7.05	6.00	—	—	—
1	60	2500	625	0.1	5.0	0.2	1ch NO	SMT	PS710BL-1A-ND†	8.15	7.34	6.25	PS710BL-1ATR-ND†	1,000	4199.00
1	80	2000	600	0.15	2.0	0.2	1ch NO	Dip	PS710E-1A-A-ND†	7.88	7.09	6.04	—	—	—
1	80	2000	600	0.15	2.0	0.2	1ch NO	SMT	PS710EL-1A-ND†	7.90	7.11	6.06	PS710EL-1ATR-ND†	1,000	4134.00
1	100	350	560	2.5	3.0	0.2	1ch NO	Dip	PS7113-1AA-ND†	3.65	3.29	2.80	—	—	—
1	100	350	560	2.5	3.0	0.2	1ch NO	SMT	PS7113L-1AA-ND†	3.00	2.70	2.30	—	—	—
2	100	350	375	2.5	3.0	0.2	2ch NO	Dip	PS7113-2AA-ND†	9.63	8.67	7.38	—	—	—
2	100	350	375	2.5	3.0	0.2	2ch NO	SMT	PS7113L-2AA-ND†	5.33	4.80	4.09	—	—	—
1	250	200	560	8.0	1.5	0.2	1ch NO	Dip	PS7122A-1A-A-ND†	5.25	4.73	4.03	—	—	—
1	250	200	560	8.0	1.5	0.2	1ch NO	SMT	PS7122AL-1A-ND†	3.05	2.75	2.34	PS7122AL-1ATR-ND†	1,000	1612.00
1	250	200	560	8.0	0.2	1.5	1ch NC	Dip	PS7122A-1B-A-ND†	4.15	3.74	3.19	—	—	—
1	250	200	560	8.0	0.2	1.5	1ch NC	SMT	PS7122AL-1B-ND†	3.28	2.95	2.52	PS7122AL-1BTR-ND†	1,000	1586.00
2	250	200	375	8.0	1.5	0.2	2ch NO	Dip	PS7122A-2A-A-ND†	5.83	5.25	4.47	—	—	—
2	250	200	375	8.0	1.5	0.2	2ch NO	SMT	PS7122AL-2A-ND†	5.85	5.27	4.49	PS7122AL-2ATR-ND†	1,000	3029.00
2	250	200	375	8.0	0.2	1.5	2ch NC	Dip	PS7122A-2B-A-ND†	8.75	7.88	6.71	—	—	—
2	250	200	375	8.0	1.5/0.2	0.2/1.5	1a + 1b	Dip	PS7122A-1C-A-ND†	6.20	5.58	4.76	—	—	—
1	400	150	560	30.0	1.0	0.2	1ch NO	Dip	PS7141-1AA-ND†	2.50	2.25	1.92	—	—	—
1	400	150	560	24.0	0.02	0.2	1ch NC	Dip	PS7141-1BA-ND†	3.23	2.91	2.48	—	—	—
2	400	150	375	24.0	0.02	0.2	1A & 1B	Dip	PS7141-1CA-ND†	6.78	6.10	5.20	—	—	—
2	400	150	375	30.0	1.0	0.2	2ch NO	Dip	PS7141-2AA-ND†	4.95	4.46	3.80	—	—	—
2	400	150	375	24.0	0.02	0.2	2ch NC	Dip	PS7141-2BA-ND†	6.33	5.70	4.85	—	—	—
2	400	120	375	35.0	2.0	1.0	2ch NO	Dip	PS7141C-2A-A-ND†	7.43	6.69	5.70	—	—	—
2	400	120	375	35.0	2.0	1.0	2ch NO	SMT	PS7141CL-2A-ND†	7.48	6.73	5.74	PS7141CL-2ATR-ND†	1,000	3081.00
1	400	120	240	50.0	1.0	0.2	1ch NO	DIP	PS7141E-1A-A-ND†	2.10	1.75	1.48	—	—	—
1	400	120	240	50.0	1.0	0.2	1ch NO	SMT	PS7141EL-1A-ND†	2.35	1.96	1.66	PS7141EL-1ATR-ND†	1,000	1173.00
1	400	150	560	30.0	1.0	0.2	1ch NO	SMT	PS7141L-1AA-ND†	2.49	2.25	1.92	—	—	—
1	400	150	560	24.0	0.02	0.2	1ch NC	SMT	PS7141L-1BA-ND†	3.28	2.95	2.52	—	—	—
2	400	150	375	24.0	0.02	0.2	2ch NC	SMT	PS7141L-2BA-ND†	5.00	4.50	3.84	—	—	—
1	400	200	560	10.0	5.0	0.2	1ch NO	Dip	PS7142-1AA-ND†	3.10	2.79	2.38	—	—	—
1	400	200	560	12.0	0.2	5.0	1ch NC	Dip	PS7142-1B-A-ND†	5.25	4.73	4.03	—	—	—
2	400	200	375	12.0	2.0	0.2	1a + 1b	SMT	PS7142-1C-A-ND†	8.75	7.88	6.71	—	—	—
2	400	200	375	12.0	2.0	0.2	2ch NO	Dip	PS7142-2A-A-ND†	8.30	7.47	6.37	—	—	—
1	400	200	560	10.0	5.0	0.2	1ch NO	SMT	PS7142L-1AA-ND†	3.15	2.84	2.42	—	—	—
1	400	200	560	12.0	0.2	5.0	1ch NC	SMT	PS7142L-1B-ND†	5.25	4.73	4.03	PS7142L-1BTR-ND†	1,000	2301.00
2	400	200	375	12.0	2/0.2	0.2/2	1a + 1b	SMT	PS7142L-1C-ND†	8.78	7.90	6.73	PS7142L-1CTR-ND†	1,000	4589.00
2	400	200	375	12.0	2.0	0.2	2ch NO	SMT	PS7142L-2A-ND†	5.85	5.27	4.49	PS7142L-2ATR-ND†	1,000	2652.00
1	600	90	560	50.0	1.5	0.2	1ch NO	Dip	PS7160-1AA-ND†	4.80	4.32	3.68	—	—	—
2	600	90	375	50.0	1.5	0.2	2ch NO	Dip	PS7160-2AA-ND†	9.63	8.67	7.38	—	—	—
2	600	90	375	50.0	1.5	0.2	2ch NO	SMT	PS7160L-2AA-ND†	7.35	6.62	5.64	—	—	—
3	60	600	300	0.8	2.0	0.5	1ch NO	SOP	PS7206-1AA-ND†	4.25	3.83	3.26	—	—	—
3	100	400	300	1.2	2.0	1.0	1ch NO	SOP	PS7214-1AA-ND†	4.13	3.72	3.17	—	—	—
3	400	120	300	30.0	2.0	0.2	1ch NO	SOP	PS7241-1AA-ND†	2.42	2.02	1.70	—	—	—
3	400	120	300	30.0	0.2	2.0	1ch NC	SOP	PS7241-1BA-ND †	4.80	4.32	3.68	—	—	—
3	40	100	100	12.0	0.5	0.2	1ch NO	SOP	PS7200A-1A-ND	4.78	4.30	3.67	—	—	—
3	40	100	100	12.0	0.5	0.2	1ch NO	SOP	PS7200A-1AA-ND†	5.25	4.73	4.03	PS7200A-1AATR-ND†	3,500	2730.00/M
3	40	250	100	1.5	1.0	0.2	1ch NO	SOP	PS7200B-1AA-ND†	6.55	5.90	5.03	PS7200B-1AATR-ND†	3,500	3432.00/M
3	40	250	100	1.6	1.0	0.5	1ch NO	SOP	PS7200E-1AA-ND†	8.30	7.47	6.37	PS7200E-1AATR-ND†	900	3907.80
3	40	160	100	3.5	0.5	1.0	1ch NO	SOP	PS7200H-1AA-ND†	7.43	6.69	5.70	PS7200H-1AATR-ND†	3,500	3887.00/M
3	40	200	100	2.0	0.5	1.0	1ch NO	SOP	PS7200K-1AA-ND†	7.43	6.69	5.70	PS7200K-1AATR-ND†	3,500	3887.00/M
3	40	120	200	12.5	0.5	1.0	1ch NO	SOP	PS7200R-1AA-ND†	4.35	3.92	3.34	PS7200R-1AATR-ND†	3,500	2236.00/M
3	80	500	300	1.2	0.5	0.5	1ch NO	SOP	PS7205B-1A-ND†	6.55	5.90	5.03	PS7205B-1ATR-ND†	3,500	3432.00/M
2	400	120	180	30.0	1/0.2	0.2/1	1a + 1b	SOP	PS7241-1C-ND†	10.93	9.84	8.38	PS7241-1CTR-ND†	1,500	5707.00/M
2	400	120	180	30.0	1.0	0.2	2ch NO	SOP	PS7241-2AA-ND†	8.75	7.88	6.71	PS7241-2AATR-ND†	1,500	3614.00/M
2	400	120	180	30.0	0.2	1.0	2ch NC	SOP	PS7241-2B-ND†	5.18	4.66	3.97	PS7241-2BTR-ND†	1,500	2665.00.M
3	400	120	300	35.0	1.0	0.2	1ch NO	SOP	PS7241E-1A-ND†	2.15	1.79	1.51	PS7241E-1ATR-ND†	3,500	1087.50/M
1	400	150	560	10.0	2.0	0.2	1ch NO	Dip	PS7341-1A-ND	2.23	2.01	1.71	—	—	—
1	400	150	560	30.0	0.2	1.5	1ch NC	Dip	PS7341-1B-A-ND†	3.93	3.54	3.01	—	—	—
1	400	120	560	35.0	1.0	1.0	1ch NO	Dip	PS7341C-1A-A-ND†	3.73	3.36	2.86	—	—	—
1	400	120	560	35.0	1.0	1.0	1ch NO	SMT	PS7341CL-1ACT-ND†	2.18	1.97	1.68	PS7341CL-1ATR-ND†	1,000	1223.30
1	400	150	560	30.0	0.2	1.5	1ch NC	SMT	PS7341L-1B-ND†	3.98	3.58	3.05	PS7341L-1BTR-ND†	1,000	1228.50
1	400	200	560	5.0	5	0.2	1ch NO	Dip	PS7342-1A-ND	4.38	3.94	3.36	—	—	—
1	600	90	560	50.0	2.0	0.2	1ch NO	Dip	PS7360-1AA-ND†	5.25	4.73	4.03	—	—	—
1	600	90	560	50.0	2.0	0.2	1ch NO	SMT	PS7360L-1AA-ND†	5.30	4.77	4.07	—	—	—
3	350	120	310	36.0	3.0	0.2	1ch NO	SOP	PS7431-1A-ND†	3.83	3.45	2.94	PS7431-1ATR-ND†	1,000	1963.00
1	200	200	560	5.0	12.0	6.5	1ch NO	Dip	PS7522-1A-ND	4.10	3.69	3.15	—	—	—
3	40	100	250	14	0.5	1.0	1ch NO	Mini-Flat	PS7801-1A-ND†	7.83	7.05	6.00	PS7801-1ATR-ND†	3,500	4017.00/M
3	40	250	100	1.6	0.5	0.5	1ch NO	Mini-Flat	PS7802-1A-ND†	8.75	7.88	6.71	PS7802-1ATR-ND†	3,500	4186.00/M

† *RoHS Compliant*

Fig. 1

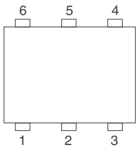

1. LED Anode
2. LED Cathode
3. NC
4. MOSFET Drain
5. MOSFET Source
6. MOSFET Drain

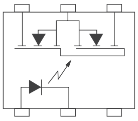

Fig. 2

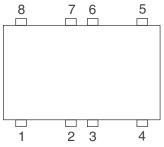

1. LED Anode
2. LED Cathode
3. LED Anode
4. LED Cathode
5. MOSFET
6. MOSFET
7. MOSFET
8. MOSFET

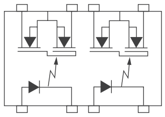

Fig. 3

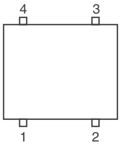

1. LED Anode
2. LED Cathode
3. MOS FET
4. MOS FET

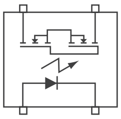

Solid State Relays

Fig. 1

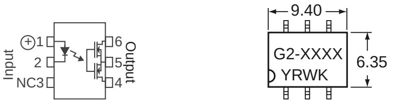

6-SOP

Fig. 2

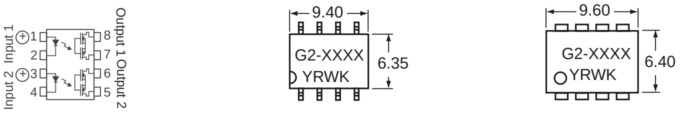

8-SOP

8-Dip

Crydom's G2 series of SSR's feature extremely low RDSon, low leakage and long lifetimes. Crydom's SSR's typically comprise an optical coupler, the output of which either drives the line directly or is used to switch a high-power device, such as a silicon-controlled rectifier (SCR) or thyristor. Whatever the drive component, it's the optical-isolation and no-moving-part aspects of the device that grant its many performance features. These features include high I/O isolation (though leakage current is a problem), long life (measured in millions of cycles), low acoustic noise, no contact bounce/arcing, mechanical ruggedness, and low drive-current requirements. They are available in tube packaging for small quantities and prototype work. Tape and reel packaging for automated insertion equipment.

Fig.	Contact	Input Voltage	Input I (mA)	Switch Voltage	Switch I (mA)	Package	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Crydom Part No.	Digi-Key Part No.	Tape and Reel Size	Pricing	Crydom Part No.
G2 Series Solid State Mosfet															
1	SPST-NC	1.4V	10-30	350V	330	6-SOP	CC1311CT-ND	3.03	2.75	2.20	G2-1B01-ST	CC1311TR-ND	2,000	1502.55/M	G2-1B01-SR
G2 Series Multi-output Solid State															
2	DPST-NO	1.4V	15-40	15V	150	8-Dip	CC1314-ND*	6.19	5.63	4.50	G2-2A03-TT	—	—	—	—
	DPST-NO	1.4V	15-40	15V	150	8-SOP	CC1315-ND*	6.19	5.63	4.50	G2-2A03-ST	—	—	—	—
	DPDT-O/C	1.4V	10-30	400V	110	8-Dip	CC1316-ND*	5.23	4.75	3.80	G2-AB01-TT	—	—	—	—
	DPDT-O/C	1.4V	10-30	250V	150	8-Dip	CC1318-ND*	5.23	4.75	3.80	G2-AB02-TT	—	—	—	—
	DPDT-O/C	1.4V	10-30	250V	150	8-SOP	CC1319CT-ND	5.23	4.75	3.80	G2-AB02-ST	CC1319TR-ND	2,000	2605.50/M	G2-AB02-SR
	DPST-NO	1.4V	10-30	400V	110	8-SOP	CC1321CT-ND	4.95	4.50	3.60	G2-DA01-ST	CC1321TR-ND	2,000	2470.50/M	G2-DA01-SR
	DPST-NO	1.4V	10-30	400V	70	8-SOP	CC1323CT-ND	4.73	4.30	3.44	G2-DA02-ST	—	—	—	—
	DPST-NO	1.4V	10-30	250V	125	8-SOP	CC1327CT-ND	4.95	4.50	3.60	G2-DA06-ST	CC1327TR-ND	2,000	2470.50/M	G2-DA06-SR
	DPST-NC	1.4V	10-30	350V	120	8-Dip	CC1328-ND*	5.36	4.88	3.90	G2-DB01-TT	—	—	—	—
	DPST-NC	1.4V	10-30	350V	120	8-SOP	CC1329CT-ND	5.36	4.88	3.90	G2-DB01-ST	CC1329TR-ND	2,000	2673.00/M	G2-DB01-SR
	DPST-NC	1.4V	10-30	250V	140	8-Dip	CC1330-ND*	5.36	4.88	3.90	G2-DB02-TT	—	—	—	—
	DPST-NC	1.4V	10-30	250V	140	8-SOP	CC1331CT-ND	5.36	4.88	3.90	G2-DB02-ST	CC1331TR-ND	2,000	2673.00/M	G2-DB02-SR

* Tube

Solid State Relays

Fig. 1

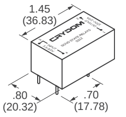

These solid state relays combine small size and high ratings in a PC-board-mounted SPST-NO design. Available with (S30 types) or without snubber network (S3 types), Series 3 is an ideal replacement for power reed relays in microprocessor or computer-based logic level systems. Designed for long, reliable service in demanding industrial environments.

Fig. 2

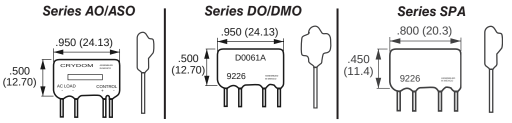

Series AO/ASO • SPST-NO miniature SIP solid state relays • Designed for switching highly inductive, low current loads such as solenoids. Also suitable for all loads up to 1.5A. R suffix are random turn-on versions.

Series DO/DMO • SPST-NO DC bipolar transistor output relays in epoxy-coated packages utilize the popular .10" grid lead spacing. DMO063 is mosfet output rated at 3A/60VDC.

Fig. 3

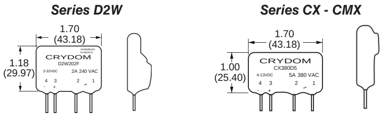

Series D2W • Printed Circuit Board Mounting • Features an epoxy-coated package for exceptional environmental protection. Pinouts are compatible with OAC type I/O modules.

Series CX - CMX • Ultra High Surge • Printed Circuit Board Mounting • SPST-NO relays achieve the highest power switching capability in a PC-mounted air-cooled package. Advanced features include exceptional steady state current, plus ultra-high surge ratings. New DC output SPST-NO solid state relays use MOSFET output for high switching capabilities in a PC-mount air-cooled package. Pinouts are compatible with Series 6 and OAC type I/O modules.

Fig. 4

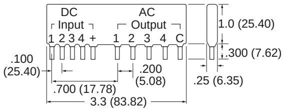

Series CTX - 4 Relay's in One Sip Pkg. — Triac Output

CTX240D3Q offers four independently controlled SSR's in one compact PCB mount package. The CTX exhibits exceptional steady-state ratings utilizing highly efficient thermal management for increased cycle life. CTX240D3Q is a zero-cross type and the CTX240D3QR is a random turn-on:

1 section on: .1 - 6.0A	2 sections on: .1 - 4.0A
3 sections on: .1 - 3.0A	4 sections on: .1 - 2.5A

Fig. 5

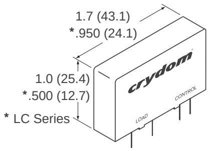

MCX and LC SIP SSR Relays

The MCX241 relays are 1.5A rated SPST-NO relays designed for switching highly inductive loads such as solenoids and motor loads. The LC series is a compact low cost series designed with a triac for general purpose switching applications. Both series available in zero-cross or random switching (phase controlled) versions (R suffix).

Fig. 6

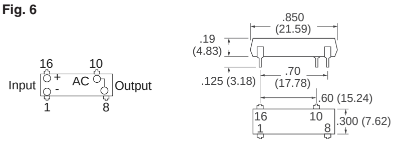

Series DPA/SDV/SDI Dip Relays — SCR Output

The series DPA is offered in your choice of voltage or current operated versions and are rated at 1A. The series SDV/SDI's are rated at 1.5A at ambient temperatures of 40˚C. Available in either zero-cross or random turn-on (R) versions and current or voltage operated (controlled) versions. SDV series are voltage controlled and SDI series are current controlled.

Fig.	Input Voltage	Oper. Voltage	Release Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series 3 — DC Input, AC Output										
1	3.5-8VDC	3.5VDC	1.0VDC	20-140VAC	.02-3	CC1132-ND	28.06	24.56	22.45	S312
	3.5-8VDC	3.5VDC	1.0VDC	20-140VAC	.02-3	CC1133-ND	26.78	23.44	21.43	S3012A
	3.5-8VDC	3.5VDC	1.0VDC	40-280VAC	.02-3	CC1134-ND	29.16	25.52	23.33	S3022A
Series AO — DC Input, AC Output — SCR Type Mini-SIP										
2	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.02-1.0	CC1049-ND	9.94	8.70	7.96	AO241
	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.02-1.0	CC1115-ND	9.94	8.70	7.96	AO241R
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.02-1.5	CC1050-ND	9.94	8.70	7.96	ASO241
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.02-1.5	CC1116-ND	9.94	8.70	7.96	ASO241R
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.06-2.0	CC1336-ND	11.98	10.49	9.59	ASO242
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.06-2.0	CC1337-ND	11.98	10.49	9.59	ASO242R
Series DO/DMO — DC Input, DC Output — Bipolar Type Mini-SIP										
2	3-9VDC	3.0VDC	1.0VDC	3-60VDC	.02-1.0	CC1060-ND	9.00	7.88	7.20	DO061A
	1.7-9VDC	1.7VDC	0.8VDC	3-60VDC	.02-1.0	CC1061-ND	9.00	7.88	7.20	DO061B
	3-10VDC	3.0VDC	1.0VDC	0-60VDC	0-3	CC1139-ND	17.10	14.97	13.68	DMO063
Series SPA — SIP Relays — SCR Output										
2	10-35mA	10mA	1mA	20-140VAC	.025-1.0VAC	CC1338-ND	9.10	7.97	7.28	SPA4191
	10-35mA	10mA	1mA	20-280VAC	.025-1.0VAC	CC1339-ND	9.94	8.70	7.96	SPA6191
Series D2W — DC Input, AC Output — Triac Type SIP										
3	3-32VDC	3.0VDC	1.0VDC	24-280VAC	.06-2.0	CC1069-ND	9.72	8.51	7.78	D2W202F
	3-32VDC	3.0VDC	1.0VDC	24-280VAC	.06-3.0	CC1118-ND	10.30	9.02	8.24	D2W203F
	3-32VDC	3.0VDC	1.0VDC	24-280VAC	.06-3.5	CC1062-ND	10.90	9.54	8.72	D2W203F-11
Series CX/CMX — DC or AC Input, DC or AC Output — SCR Type SIP										
3	3-15VDC	3.0VDC	1.0VDC	12-280VAC	.06-5.0	CC1063-ND	12.08	10.57	9.67	CX240D5
	15-32VDC	15VDC	1.0VDC	12-280VAC	.06-5.0	CC1064-ND	12.08	10.57	9.67	CXE240D5
	3-15VDC	3.0VDC	1.0VDC	12-280VAC	.06-5.0	CC1119-ND	12.08	10.57	9.67	CX240D5R

Fig.	Input Voltage	Oper. Voltage	Release Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
3	4-13VDC	4.0VDC	1.0VDC	48-530VAC	.06-5.0	CC1120-ND	15.40	13.48	12.32	CX380D5
	3-10VDC	3.0VDC	1.0VDC	0-100VDC	0-6.0	CC1124-ND	33.16	29.02	26.53	CMX100D6
	3-10VDC	3.0VDC	1.0VDC	0-60VDC	0-10	CC1125-ND	33.16	29.02	26.53	CMX60D10
	4-13VDC	4.0VDC	1.0VDC	48-660VAC	.06-5.0	CC1065-ND	16.94	14.83	13.56	CX480D5
	15-32VDC	15VDC	1.0VDC	48-660VAC	.06-5.0	CC1066-ND	16.94	14.83	13.56	CXE480D5
	90-140VAC	90VAC	10.0VAC	12-280VAC	.06-5.0	CC1332-ND	13.50	11.82	10.80	CX240A5
	15-32VDC	15VDC	1.0VDC	12-280VAC	.06-5.0	CC1333-ND	13.50	11.82	10.80	CXE240D5
Series CTX — 4 Relays In One Sip Pkg. — Triac Output										
4	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.1-6.0	CC1140-ND	44.50	38.94	35.60	CTX240D3Q
	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.1-6.0	CC1141-ND	44.50	38.94	35.60	CTX240D3QR
Series MCX Relays — AC Output SIP										
5	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.025-1.5	CC1551-ND	11.10	9.72	8.88	MCX241
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.025-1.5	CC1552-ND	11.10	9.72	8.88	MCX241R
NEW! Series LC — AC Output Mini-SIP — Triac Output NEW!										
5	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.025-1.5	CC1586-ND	8.44	7.39	6.76	LC241
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	.025-1.5	CC1585-ND	8.44	7.39	6.76	LC241R
Series DPA/SDV/SDI Dip Relays — SCR Output										
6	10-35mA	10mA	1.0mA	20-140VAC	.025-1.0	CC1153-ND	9.56	8.37	7.65	DPA4111
	3.5-10VDC	3.5VDC	1.0VDC	20-140VAC	.025-1.0	CC1154-ND	9.56	8.37	7.65	DPA4119
	10-35mA	10mA	1.0mA	20-280VAC	.025-1.0	CC1155-ND	9.86	8.63	7.89	DPA6111
	3.5-10VDC	3.5VDC	1.0VDC	20-280VAC	.025-1.0	CC1156-ND	9.86	8.63	7.89	DPA6119
	3.5-10VDC	3.5VDC	1.0VDC	12-280VAC	.025-1.5	CC1157-ND	10.18	8.91	8.15	SDV2415
	3.5-10VDC	3.5VDC	1.0VDC	12-280VAC	.025-1.5	CC1158-ND	10.18	8.91	8.15	SDV2415R
	10-35mA	10mA	1.0mA	12-280VAC	.025-1.5	CC1159-ND	10.18	8.91	8.15	SDI2415

crydom™ Solid State Relays

Fig. 1

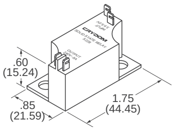

Relays combine small size and high ratings in a package designed for easy heat sink or panel mounting. Standard .187 push-on terminals assure quick connection and are arranged to provide maximum isolation between signal and power circuits. Model S228C is a snubberless design for applications that require low off-state leakage.

Fig. 2

Series PCV Analog Power Controller

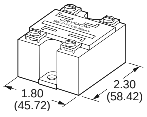

The Series PCV Analog Input Power Controllers are 0-100% variable power controllers for 120 or 240VAC loads which vary with an analog input of 2 to 10VDC. The input and output are proportional by integrating a complete phase fired logic system and a solid state relay in the same package. Applications include heaters and lighting, motors and feeders, etc.

Fig. 3

Series DSD, DLD Time Delay Relay

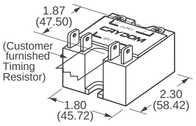

These Delay-On time delay relays offer customers to externally adjust their delay time by selecting the value of the external customer supplied resistor. DSD are short time delays and DLD are longer time delay durations. Timing resistors should be 1/4 watt or higher.

Typical Turn-On Delay For Various Timing Resistances

Resistor	Time (DSD)	Time (DLD)
0 (Short)	0.10 sec.	1.6 sec.
10KΩ	0.19 sec.	3.1 sec.
100KΩ	0.94 sec.	15 sec.
470KΩ	4.0 sec.	64 sec.
1.0MΩ	8.3 sec.	133 sec.

Fig. 4 **PF Series**

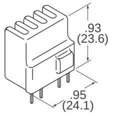

PowerFin™ series delivers the highest ratings of any single in-line package (SIP). The integral heat sink design can operate at 25 amps RMS in forced air at 85°C case temp. With natural convection in free air, it rates 10 amps RMS at 25°C ambient.

ASPF Series

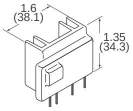

ASPF SSR incorporates the PowerFin™ design with an integral heat sink on the compact Mini-SIP package. Rated at 3.0 AMPS up to 45°C, this SPST-NO AC output SSR is for applications where precise electrical power control is essential. Zero voltage or random switching (R suffix) versions are offered.

Fig. 5

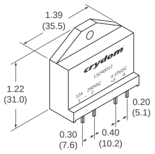

Crydom's LS family of SPST-NO relays achieves the highest power switching capability in a PC-mounted air-cooled package. Output consists of an SCR AC switch and is available in zero-cross and random turn-on (suffix R).

Fig. 6

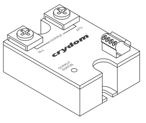

The MCST series of controls is designed to provide adjustable surge reducing soft-start and soft-stop control for any load which would benefit from a gradual application/shut down and provide Crydom SSR switching within one package. Adjustable ramp times.

Fig. 7

Models SST120 and SST240 auxiliary function modules gradually apply power to the load when energized by the control voltage. Part sold complete with soft-start module and relay.

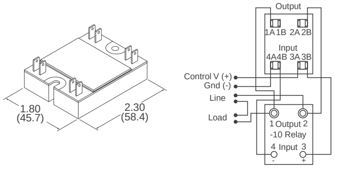

Fig. 8

RPC series proportional controllers provide a cost effective method of controlling power in many different applications such as heaters, universal motors or incandescent lamps. A customer provided potentiometer is all that is required for control.

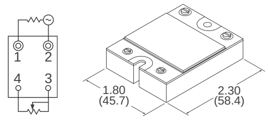

Fig. 9

Heatsinks with pre-tapped holes for SSR packages.

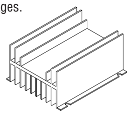

Fig.	Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
							1	10	25	
Series 2 — DC Input, AC Output										
1	3.5-8VDC	3.5VDC	1.0VDC	20-140VAC	.02-8	CC1129-ND	33.06	28.93	26.45	S218
	3.5-8VDC	3.5VDC	1.0VDC	40-280VAC	.02-8	CC1130-ND	34.80	30.45	27.84	S228
	3.5-8VDC	3.5VDC	1.0VDC	40-280VAC	.02-8	CC1131-ND	34.80	30.45	27.84	S228C
Series PCV Analog Power Controller										
2	2-10VDC	2.0VDC	1.0VDC	100-240VAC	.15-15A	CC1161-ND	84.98	74.36	67.99	10PCV2415
	2-10VDC	2.0VDC	1.0VDC	100-240VAC	.15-25A	CC1162-ND	94.12	82.36	75.30	10PCV2425
	2-10VDC	2.0VDC	1.0VDC	100-240VAC	.15-40A	CC1163-ND	111.12	97.23	88.90	10PCV2440
Series DSD, DLD Time Delay Relay										
3	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-10A	CC1174-ND	43.12	37.73	34.50	DSD2410
	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-25A	CC1175-ND	44.48	38.92	35.59	DSD2425
	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-50A	CC1176-ND	46.92	41.06	37.54	DSD2450
	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-10A	CC1177-ND	43.12	37.73	34.50	DLD2410
	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-25A	CC1178-ND	44.48	38.92	35.59	DLD2425
	3.5-15VDC	3.5VDC	1.0VDC	48-280VAC	.04-50A	CC1179-ND	46.92	41.06	37.54	DLD2450
Series PF, ASPF, MPF – PowerFin™										
4	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.1-3A	CC1334-ND	12.08	10.57	9.67	ASPF240D3
	4-10VDC	4.0VDC	1.0VDC	24-280VAC	.1-3A	CC1335-ND	12.08	10.57	9.67	ASPF240D3R
	90-140VAC	90.0VAC	10.0VAC	12-280VAC	.06-10	CC1340-ND	23.88	20.90	19.11	PF240A25
	3-15VDC	3.0VDC	1.0VDC	12-280VAC	.06-10	CC1341-ND	22.06	19.31	17.65	PF240D25
	15-32VDC	15.0VDC	1.0VDC	12-280VAC	.06-10	CC1342-ND	22.06	19.31	17.65	PFE240D25
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	0.1-4A	CC1553-ND	12.62	11.05	10.10	MPF240D4
	4-10VDC	4.0VDC	1.0VDC	12-280VAC	0.1-4A	CC1554-ND	12.62	11.05	10.10	MPF240D4R
Series LS										
5	4.0-10VDC	4.0VDC	1.0VDC	24-280VAC	.15-8A	CC1547-ND	16.30	14.27	13.04	LS240D8
	4.0-10VDC	4.0VDC	1.0VDC	24-280VAC	.15-8A	CC1548-ND	16.30	14.27	13.04	LS240D8R
	4.0-10VDC	4.0VDC	1.0VDC	24-280VAC	.15-12A	CC1549-ND	18.12	15.86	14.50	LS240D12
	4.0-10VDC	4.0VDC	1.0VDC	24-280VAC	.15-12A	CC1550-ND	18.12	15.86	14.50	LS240D12R

Fig.	Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
							1	10	25	
MCST Series – Soft-Start Controller										
6	0-5VDC	—	—	48-140VAC	.15-25A	CC1579-ND	79.00	69.13	63.20	MCST1225AS
	0-5VDC			48-140VAC	.15-50A	CC1580-ND	85.00	74.38	68.00	MCST1250AS
	0-5VDC			48-140VAC	.15-90A	CC1581-ND	103.00	90.13	82.40	MCST1290AS
	0-5VDC			180-280VAC	.15-25A	CC1582-ND	79.00	69.13	63.20	MCST2425AS
	0-5VDC			180-280VAC	.15-50A	CC1583-ND	85.00	74.38	68.00	MCST2450AS
	0-5VDC			180-280VAC	.15-90A	CC1584-ND	103.00	90.13	82.40	MCST2490AS
Series SST – Soft-Start Modules										
7	3.5-10VDC	3.5VDC	1.0VDC	90-140VAC	.04-10	CC1343-ND	67.44	59.01	53.96	10SST240
	3.5-10VDC	3.5VDC	1.0VDC	90-140VAC	.04-25	CC1344-ND	67.92	59.43	54.34	25SST120
	3.5-10VDC	3.5VDC	1.0VDC	90-140VAC	.04-50	CC1345-ND	70.92	62.06	56.74	40SST120

Fig.	Resistor (Ohms)	Operate Voltage	Release Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
							1	10	25	
Series RPC – Potentiometer Power Control										
8	150K (1W)	—	—	90-130VAC	15	CC1346-ND	63.84	55.86	51.08	RPC1215
	150K (1W)	—	—	90-130VAC	25	CC1347-ND	82.58	72.26	66.07	RPC1225
	150K (1W)	—	—	90-130VAC	40	CC1348-ND	112.64	98.56	90.12	RPC1240
	1M (1/2W)	—	—	200-240VAC	15	CC1349-ND	69.72	61.01	55.78	RPC2415
	1M (1/2W)	—	—	200-240VAC	25	CC1350-ND	86.40	75.60	69.12	RPC2425
	1M (1/2W)	—	—	200-240VAC	40	CC1351-ND	120.16	105.14	96.13	RPC2440
Solid State Relay Accessories										
9	Heatsink for Relays up to 10A (3.3 "x 2.06") (8.38cm x 5.23cm)					CC1113-ND	9.46	8.28	7.57	HS-1
	Heatsink for Relays up to 25A (3.3" x 4.1") (8.38cm x 10.41cm)					CC1207-ND	13.88	12.15	11.11	HS-2
	Heatsink for Relays up to 75A (5.5" x 4.8") (13.97cm x 12.19cm)					CC1208-ND	13.88	12.15	11.11	HE-54
	Heatsink for Relays up to 90A (6.0" x 6.0") (15.24cm x 15.24cm)					CC1114-ND	96.94	84.83	77.56	HE-90
—	Protective Cover for Series 1 Relays					CC1070-ND	3.04	2.66	2.44	KS-100
	Protective Cover for 53TP Series Relays					CC1171-ND	4.94	4.33	3.96	KS-300
	EMI Filters for 1 Phase Relay to Reduce Gen. Noise					CC1172-ND	10.46	9.16	8.37	1F25
	EMI Filters for 3 Phase Relay to Reduce Gen. Noise					CC1173-ND	23.68	20.72	18.95	3F20

Fig. 10

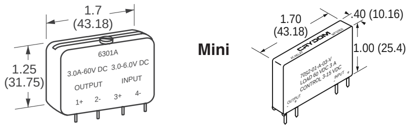

Standard

Mini

Series IAC, IDC, OAC, ODC

- Opto-Isolated
- Solid state I/O switching modules deliver an electrically clean, photo-isolated, noise free "output" interface from logic level control systems to external loads such as motors, valves, solenoids, etc. DMP versions are epoxy conformal coated for fast heat transfer.

Series 6

Series 6 buffered output modules contain additional internal amplification to reduce drive requirements to a level suitable for the Mos devices used in many microprocessor systems. Models are available with either inverting or no-inverting inputs, for 5 and 15 volt logic.

Fig.	Input Volt.	Input I (mA)	Output Current @	Output Voltage	Turn On Time	Turn Off Time	Digi-Key Part No.	Price Each			Crydom Part No.
								1	10	25	
I/O Modules — 5VDC System Voltage											
10	90-140VAC	7	.1-100mA	.4-30VDC	20ms	20ms	CC1200-ND	8.70	7.62	6.96	IAC-5
	180-280VAC	5	.1-100mA	.4-30VDC	20ms	20ms	CC1201-ND	8.70	7.62	6.96	IAC-5A
	10-36VDC	8	.1-100mA	.4-30VDC	5ms	5ms	CC1202-ND	8.70	7.62	6.96	IDC-5
	3-6VDC	19	.02-3A	12-140VAC	.5 cycle	.5 cycle	CC1203-ND	8.70	7.62	6.96	OAC-5
	3-6VDC	19	.02-3A	24-280VAC	.5 cycle	.5 cycle	CC1204-ND	8.70	7.62	6.96	OAC-5A
	3-6VDC	14	.02-3A	5-60VDC	.3 ms	.3 ms	CC1205-ND	8.70	7.62	6.96	ODC-5
	90-140VDC	6	.1-100mA	.4-30VDC	20ms	20ms	CC1235-ND	13.72	12.01	10.98	DMP6201A
	180-280VDC	4	.1-100mA	.4-30VDC	20ms	20ms	CC1236-ND	14.80	12.95	11.84	DMP6202A
	3-6VDC	3	.02-3A	5-60VDC	.5ms	.5ms	CC1237-ND	13.84	12.11	11.08	DMP6301A
	3-6VDC	4	.02-3A	24-280VAC	.5 cycle	.5 cycle	CC1238-ND	14.80	12.95	11.84	DMP6402A
I/O Modules — 15VDC System Voltage											
10	90-140VAC	7	.1-100mA	.4-30VDC	20ms	20ms	CC1210-ND	8.70	7.62	6.96	IAC-15
	10-36VDC	8	.1-100mA	.4-30VDC	5ms	5ms	CC1211-ND	8.70	7.62	6.96	IDC-15
	9-18VDC	20	.02-3A	12-140VAC	.5 cycle	.5 cycle	CC1212-ND	8.70	7.62	6.96	OAC-15
	9-18VDC	14	.02-3A	5-60VDC	.3ms	.3ms	CC1213-ND	8.70	7.62	6.96	ODC-15
I/O Modules — 24VDC System Voltage											
10	90-140VAC	7	.1-100mA	4-30VDC	20ms	20ms	CC1214-ND	8.70	7.62	6.96	IAC-24
	10-36VDC	8	.1-100mA	.4-30VDC	5ms	5ms	CC1215-ND	8.70	7.62	6.96	IDC-24
	18-28VDC	10	.02-3A	12-140VAC	.5 cycle	.5 cycle	CC1216-ND	8.70	7.62	6.96	OAC-24
	18-28VDC	10	.02-3A	5-60VDC	.3ms	.3ms	CC1217-ND	8.70	7.62	6.96	ODC-24

Fig.	Input Voltage	Input I (mA)	Output Current @	Output Voltage	Turn On Time	Turn Off Time	Digi-Key Part No.	Price Each			Crydom Part No.
								1	10	25	
Series 6 — AC & DC Buffered Modules											
10	0-.8VDC	100µA	.02-3A	3-60VDC	100µS	100µS	CC1239-ND	22.38	19.59	17.91	6311
	2.4-6VDC	250µA	.02-3.5A	3-60VDC	100µS	100µS	CC1240-ND	22.90	20.04	18.32	6321
	0-.8VDC	100µA	.02-3.5A	24-280VAC	.5 cycle	.5 cycle	CC1242-ND	23.00	20.13	18.40	6412
	2.4-6VDC	250µA	.02-3.5A	12-140VAC	.5 cycle	.5 cycle	CC1243-ND	20.46	17.91	16.37	6421
Mounting Board for 4-pos. Std. I/O (Neg. Logic) Modules Screw Term.							CC1206-ND	43.50	38.07	34.80	PB-4
Mnt. Brd. for 4-pos. Std. I/O Modules (Neg.or Pos. Logic)Screw Term.							CC1218-ND	47.48	41.55	37.99	PB-4R
Mounting Board for 8-pos. Std. I/O Modules (Card Edge Conn.)							CC1219-ND	84.96	74.34	67.97	PB-8
Mounting Board for 16-pos. Std. I/O Modules (Screw Term.)							CC1220-ND	196.98	172.36	157.59	PB-16T
Mounting Board for 16-pos. Std. I/O Modules (Card Edge Conn.)							CC1221-ND	155.36	135.94	124.29	PB-16A
Mini I/O Module — 5VDC System Voltage											
10	90-140VAC	7	.1-100mA	.4-30VDC	20ms	20ms	CC1222-ND	8.70	7.62	6.96	MIAC-5
	10-36VDC	8	.1-100mA	.4-30VDC	5ms	5ms	CC1223-ND	8.70	7.62	6.96	MIDC-5
	3-6VDC	19	.02-3A	12-140VAC	.5 cycle	.5 cycle	CC1224-ND	8.70	7.62	6.96	MOAC-5
	3-6VDC	19	.02-3A	24-280VAC	.5 cycle	.5 cycle	CC1225-ND	8.70	7.62	6.96	MOAC-5A
	3-6VDC	14	.02-3A	5-60VDC	.3ms	.3ms	CC1226-ND	8.70	7.62	6.96	MODC-5
Mini I/O Module — 24VDC System Voltage											
10	10-36VDC	8	.1-100mA	.4-30VDC	5ms	5ms	CC1227-ND	8.70	7.62	6.96	MIDC-24
	18-28VDC	15	.02-3A	12-140VAC	.5 cycle	.5 cycle	CC1228-ND	8.70	7.62	6.96	MOAC-24
	18-28VDC	10	.02-3A	5-60VDC	.3ms	.3ms	CC1229-ND	8.70	7.62	6.96	MODC-24
Mounting Board for 4-pos. Mini I/O Modules (Screw Term.)							CC1230-ND	43.50	38.07	34.80	MS-4
Mounting Board for 8-pos. Mini I/O Modules (Card Edge Conn.)							CC1231-ND	84.96	74.34	67.97	MS-8H
Mounting Board for 16-pos. Mini I/O Modules (Card Edge Conn.)							CC1232-ND	155.36	135.94	124.29	MS-16H
Mounting Board for 24-pos. Mini I/O Modules (Card Edge Conn.)							CC1233-ND	262.80	229.95	210.24	MS-24H

Solid State Relays

Fig. 1

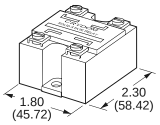

Series 1, HD, HA: • These SPST-NO relays deliver proven reliability in the most demanding applications. Output consists of an SCR AC switch, available in either zero voltage turn-on or random turn-on, phase controlled models. (-10 versions are phase controlled. Crydom part numbers ending in "B" are normally closed versions.)

Series T: • Industry Standard Package • Snubbers are included for high DV/DT applications and inductive loads, together with zero-voltage switching to reduce inrush currents and electrical noise.

Series H12: • High voltage relays use IC driven circuits for switching loads up to 660 VAC with 1200 Volts blocking standard.

Series 1-DC: • Low On-State Resistance • Paralleling Capability for Higher Currents • DC output relays feature MOSFET technology for low on-state resistance, assuring easy paralleling and switching capabilities to 40 amps at 100 VDC.

Series CS: • Low Leakage • SCR AC switch output models feature low off-state leakage (snubberless), zero-voltage switching and have a broadened operating range at both 120V/240VAC line voltages.

Fig. 2

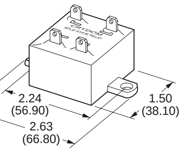

Series EZ: • Low Leakage • Quick Connect Terminals • Offers a low profile package with the convenience of quick connect terminals • 4000 Vrms opto-isolation and low off-state leakage are standard.

Fig. 3

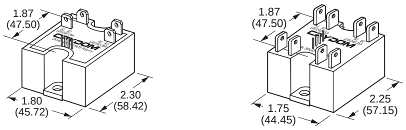
Dual Relay

Quad Relay

Two (Dual) or four (Quad) totally independent AC output relays come in a single standard panel-mount package. Utilizing an AC switch output with internal snubber, relays provide greater protection against false triggering.

Fig. 4

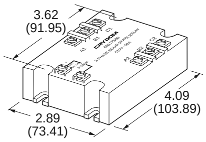

• SCR Output • AC or DC Control • LED Status Indicator Three-phase solid state relays switch up to 530 Vrms directly to loads such as motors, transformers, heating elements, etc. Models are available with either AC or DC input (coil). For heatsink use part number CC1114-ND.

Fig.	Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Load Current (Arms)	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
Series 1 — DC Input, AC Output — SCR Type										
1	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.04-2.5	CC1000-ND	22.52	19.71	18.02	D1202
	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.04-10	CC1001-ND	33.28	29.12	26.63	D1210
	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.04-25	CC1002-ND	33.76	29.54	27.01	D1225
	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.04-40	CC1003-ND	36.76	32.17	29.41	D1240
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-2.5	CC1004-ND	22.66	19.83	18.13	D2402
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-10	CC1005-ND	34.10	29.84	27.28	D2410
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-25	CC1006-ND	34.44	30.14	27.56	D2425
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-40	CC1071-ND	38.96	34.09	31.17	D2440
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-50	CC1007-ND	40.22	35.20	32.18	D2450
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-75	CC1008-ND	64.26	56.23	51.41	D2475
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-90	CC1067-ND	70.74	61.90	56.60	D2490
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-110	CC1142-ND	69.28	60.62	55.43	D24110
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-125	CC1143-ND	81.38	71.21	65.11	D24125
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-25	CC1072-ND	43.92	38.43	35.14	D4825
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-40	CC1073-ND	48.76	42.67	39.01	D4840
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-50	CC1074-ND	48.76	42.67	39.01	D4850
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-75	CC1075-ND	77.90	68.17	62.32	D4875
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-90	CC1076-ND	79.06	69.18	63.25	D4890
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-10	CC1088-ND	34.10	29.84	27.28	D2410B
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-25	CC1089-ND	34.44	30.14	27.56	D2425B
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.04-40	CC1090-ND	38.96	34.09	31.17	D2440B
	3.5-26VDC	3.5VDC	1.0VDC	24-140VAC	.04-10	CC1077-ND	33.28	29.12	26.63	D1210-10
	3.5-26VDC	3.5VDC	1.0VDC	24-140VAC	.04-40	CC1078-ND	36.76	32.17	29.41	D1240-10
	3.5-26VDC	3.5VDC	1.0VDC	48-280VAC	.04-10	CC1079-ND	34.10	29.84	27.28	D2410-10
	3.5-26VDC	3.5VDC	1.0VDC	48-280VAC	.04-25	CC1080-ND	34.44	30.14	27.56	D2425-10
	3.5-26VDC	3.5VDC	1.0VDC	48-280VAC	.04-40	CC1081-ND	38.96	34.09	31.17	D2440-10
	3.5-26VDC	3.5VDC	1.0VDC	48-280VAC	.04-50	CC1082-ND	40.22	35.20	32.18	D2450-10
	3.5-26VDC	3.5VDC	1.0VDC	48-280VAC	.04-90	CC1083-ND	70.74	61.90	56.60	D2490-10
	3.5-26VDC	3.5VDC	1.0VDC	80-530VAC	.04-40	CC1085-ND	48.76	42.67	39.01	D4840-10
	3.5-26VDC	3.5VDC	1.0VDC	80-530VAC	.04-75	CC1086-ND	77.90	68.17	62.32	D4875-10
	3.5-26VDC	3.5VDC	1.0VDC	80-530VAC	.04-90	CC1087-ND	79.06	69.18	63.25	D4890-10
Series 1 — AC Input, AC Output — SCR Type										
1	90-280VAC	90VAC	10VAC	24-140VAC	.04-25	CC1011-ND	35.00	30.63	28.00	A1225
	90-280VAC	90VAC	10VAC	24-140VAC	.04-40	CC1012-ND	38.72	33.88	30.98	A1240
	90-280VAC	90VAC	10VAC	48-280VAC	.04-10	CC1013-ND	36.06	31.56	28.85	A2410
	90-280VAC	90VAC	10VAC	48-280VAC	.04-25	CC1014-ND	36.76	32.17	29.41	A2425
	90-280VAC	90VAC	10VAC	48-280VAC	.04-50	CC1015-ND	41.62	36.42	33.30	A2450
	18-36VAC	18VAC	2VAC	48-280VAC	.04-50	CC1068-ND	41.62	36.42	33.30	A2450-E
	90-280VAC	90VAC	10VAC	48-280VAC	.04-75	CC1016-ND	67.04	58.66	53.64	A2475
	90-280VAC	90VAC	10VAC	48-280VAC	.04-110	CC1144-ND	80.98	70.86	64.79	A24110
	90-280VAC	90VAC	10VAC	48-280VAC	.04-125	CC1145-ND	84.50	73.94	67.60	A24125
	90-280VAC	90VAC	10VAC	80-530VAC	.04-25	CC1092-ND	47.64	41.69	38.12	A4825
	90-280VAC	90VAC	10VAC	80-530VAC	.04-40	CC1093-ND	53.26	46.61	42.61	A4840
	90-280VAC	90VAC	10VAC	80-530VAC	.04-50	CC1094-ND	53.26	46.61	42.61	A4850
Series HD — DC Input, AC Output — SCR Type										
1	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-12	CC1017-ND	42.52	37.21	34.02	HD4812
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-25	CC1018-ND	45.02	39.40	36.02	HD4825
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-50	CC1019-ND	49.98	43.74	39.99	HD4850
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-50	CC1096-ND	49.98	43.74	39.99	HD4850-10
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-75	CC1020-ND	79.84	69.86	63.88	HD4875
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-90	CC1021-ND	81.04	70.91	64.84	HD4890
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-110	CC1146-ND	87.94	76.95	70.36	HD48110
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-125	CC1147-ND	93.12	81.48	74.50	HD48125
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-25	CC1097-ND	45.66	39.96	36.53	HD6025
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-50	CC1098-ND	51.22	44.82	40.98	HD6050
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-90	CC1099-ND	82.98	72.61	66.39	HD6090
	3-32VDC	3.0VDC	1.0VDC	80-530VAC	.04-125	CC1100-ND	94.48	82.67	75.59	HD60125
Series HA — AC Input, AC Output — SCR Type										
1	90-280VAC	90VAC	10VAC	80-530VAC	.04-25	CC1022-ND	48.84	42.74	39.08	HA4825
	90-280VAC	90VAC	10VAC	80-530VAC	.04-50	CC1023-ND	54.60	47.78	43.68	HA4850
	90-280VAC	90VAC	10VAC	80-530VAC	.04-75	CC1024-ND	81.28	71.12	65.03	HA4875
1	90-280VAC	90VAC	10VAC	80-530VAC	.04-90	CC1025-ND	84.82	74.22	67.86	HA4890
	90-280VAC	90VAC	10VAC	80-530VAC	.04-110	CC1148-ND	92.32	80.78	73.86	HA48110
	90-280VAC	90VAC	10VAC	48-660VAC	.04-25	CC1101-ND	50.16	43.89	40.13	HA6025
	90-280VAC	90VAC	10VAC	48-660VAC	.04-50	CC1102-ND	57.32	50.16	45.86	HA6050
	90-280VAC	90VAC	10VAC	48-660VAC	.04-90	CC1103-ND	86.30	75.52	69.04	HA6090
	90-280VAC	90VAC	10VAC	48-660VAC	.04-125	CC1104-ND	96.44	84.39	77.16	HA60125
Series H12 — DC Input, AC Output — SCR Type										
1	4-32VDC	4.0VDC	1.0VDC	48-660VAC	.04-50	CC1032-ND	47.68	41.72	38.15	H12WD4850
	4-32VDC	4.0VDC	1.0VDC	48-660VAC	.04-90	CC1033-ND	62.08	54.32	49.67	H12WD4890
	4-32VDC	4.0VDC	1.0VDC	48-530VAC	.04-50	CC1105-ND	45.66	39.96	36.53	H12D4850
	4-32VDC	4.0VDC	1.0VDC	48-530VAC	.04-90	CC1106-ND	58.58	51.26	46.87	H12D4890
Series H12 — AC Input, AC Output — SCR Type										
1	90-140VAC	90VAC	10VAC	48-660VAC	.04-50	CC1034-ND	51.48	45.05	41.19	H12CA4850
	90-140VAC	90VAC	10VAC	48-660VAC	.04-90	CC1035-ND	78.88	69.02	63.11	H12CA4890
Series T — DC Input, AC Output — Triac Type										
1	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.05-10	CC1026-ND	33.26	29.11	26.61	TD1210
	3-32VDC	3.0VDC	1.0VDC	24-140VAC	.05-25	CC1027-ND	33.76	29.54	27.01	TD1225
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.05-10	CC1028-ND	34.10	29.84	27.28	TD2410
	3-32VDC	3.0VDC	1.0VDC	48-280VAC	.05-25	CC1029-ND	34.44	30.14	27.56	TD2425
Series T — AC Input, AC Output — Triac Type										
1	90-280VAC	90VAC	10VAC	24-140VAC	.05-10	CC1107-ND	34.34	30.05	27.48	TA1210
	90-280VAC	90VAC	10VAC	24-140VAC	.05-25	CC1030-ND	35.00	30.63	28.00	TA1225
	90-280VAC	90VAC	10VAC	48-280VAC	.05-10	CC1108-ND	36.06	31.56	28.85	TA2410
	90-280VAC	90VAC	10VAC	48-280VAC	.05-25	CC1031-ND	36.76	32.17	29.41	TA2425
Series DC60 — DC or AC Input, DC Output — Bipolar Type										
1	3-32VDC	3.0VDC	1.0VDC	3-60VDC	.02-3	CC1126-ND	14.80	12.95	11.84	DC60S3
	3-32VDC	3.0VDC	1.0VDC	3-60VDC	.02-5	CC1127-ND	23.22	20.32	18.58	DC60S5
	3-32VDC	3.0VDC	1.0VDC	3-60VDC	.02-7	CC1128-ND	29.00	25.38	23.20	DC60S7
	90-280VAC	90VAC	10VAC	3-60VDC	.02-3A	CC1150-ND	17.10	14.97	13.68	DC60SA3
	90-280VAC	90VAC	10VAC	3-60VDC	.02-5A	CC1151-ND	25.54	22.35	20.44	DC60SA5
	90-280VAC	90VAC	10VAC	3-60VDC	.02-7A	CC1152-ND	31.32	27.41	25.06	DC60SA7
Series 1 DC — DC Input, DC Output — MOSFET Type										
1	3.5-32VDC	3.5VDC	1.0VDC	0-100VDC	0-7	CC1036-ND	49.24	43.09	39.40	D1D07
	3.5-32VDC	3.5VDC	1.0VDC	0-100VDC	0-12	CC1037-ND	54.42	47.62	43.54	D1D12
	3.5-32VDC	3.5VDC	1.0VDC	0-100VDC	0-20	CC1038-ND	59.64	52.19	47.72	D1D20
	3.5-32VDC	3.5VDC	1.0VDC	0-100VDC	0-40	CC1039-ND	74.08	64.82	59.27	D1D40
	3.5-32VDC	3.5VDC	1.0VDC	0-200VDC	0-7	CC1040-ND	56.86	49.76	45.49	D2D07
	3.5-32VDC	3.5VDC	1.0VDC	0-200VDC	0-12	CC1041-ND	65.54	57.35	52.44	D2D12
	3.5-32VDC	3.5VDC	1.0VDC	0-400VDC	0-7	CC1042-ND	66.80	58.45	53.44	D4D07
	3.5-32VDC	3.5VDC	1.0VDC	0-400VDC	0-12	CC1109-ND	90.02	78.77	72.02	D4D12
	3.5-32VDC	3.5VDC	1.0VDC	0-60VDC	.005-100	CC1520-ND	131.72	115.26	105.38	D06D100
	3.5-32VDC	3.5VDC	1.0VDC	0-60VDC	.005-60	CC1521-ND	83.02	72.65	66.42	D06D60
	3.5-32VDC	3.5VDC	1.0VDC	0-60VDC	.005-80	CC1522-ND	104.48	91.42	83.59	D06D80
Series CS — DC Input, AC Output — SCR Type										
1	3.5-15VDC	3.5VDC	1.0VDC	24-280VAC	.1-10	CC1043-ND	28.08	24.57	22.47	CSD2410
	3.5-15VDC	3.5VDC	1.0VDC	24-280VAC	.1-25	CC1044-ND	34.38	30.09	27.51	CSD2425
	3.5-15VDC	3.5VDC	1.0VDC	24-280VAC	.1-50	CC1045-ND	40.40	35.35	32.32	CSD2450
	15-32VDC	15VDC	1.0VDC	24-280VAC	.1-10	CC1110-ND	28.08	24.57	22.47	CSE2410
	15-32VDC	15VDC	1.0VDC	24-280VAC	.1-25	CC1111-ND	34.38	30.09	27.51	CSE2425
	15-32VDC	15VDC	1.0VDC	24-280VAC	.1-50	CC1112-ND	40.40	35.35	32.32	CSE2450
Series EZ — DC Input, AC Output — SCR Type										
2	4-15VDC	4.0VDC	1.0VDC	24-280VAC	.06-12	CC1047-ND	18.24	15.96	14.60	EZ240D12
	4-15VDC	4.0VDC	1.0VDC	24-280VAC	.06-18	CC1048-ND	23.46	20.53	18.77	EZ240D18
Dual — DC Input, AC Output — SCR Type										
3	4-15VDC	4.0VDC	1.0VDC	24-280VAC	.05-25	CC1121-ND	61.96	54.22	49.57	D2425D
	4-15VDC	4.0VDC	1.0VDC	24-280VAC	.05-40	CC1122-ND	70.16	61.39	56.13	D2440D
Quad — DC Input, AC Output — SCR Type										
3	4-15VDC	4.0VDC	1.0VDC	24-280VAC	.05-20	CC1123-ND	102.66	89.83	82.13	TD2420Q
Series 53TP — DC or AC Input — SCR Type (for 3 Phase applications)										
4	3-32VDC	3.0VDC	1.0VDC	48-530VAC	.05-25	CC1135-ND	138.02	120.77	110.42	D53TP25D
	3-32VDC	3.0VDC	1.0VDC	48-530VAC	.05-50	CC1136-ND	151.04	132.16	120.84	D53TP50D
	90-280VAC	90VAC	10VAC	48-530VAC	.05-25	CC1137-ND	143.94	125.95	115.16	A53TP25D
	90-280VAC	90VAC	10VAC	48-530VAC	.05-50	CC1138-ND	156.96	137.34	125.57	A53PT50D

crydom™

CKR Series DIN Rail with Integrated Heatsink

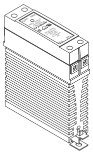

The Series CKR Solid State Relays utilize Crydom's proprietary thermal management technology providing a compact and efficient design. Built-in DIN Rail attachment, easy-to-use box clamp type terminals and integral heat sinking complete the package. This compact new design offers up to 30Arms in ambient temperatures of 25°C.

Zero Cross Versions

Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
						1	10	25	
4.5-32VDC	4.5VDC	1.0VDC	24-280VAC	.15-10A	CC1517-ND	41.14	36.00	32.92	CKRD2410
4.5-32VDC	4.5VDC	1.0VDC	24-280VAC	.15-20A	CC1518-ND	44.02	38.52	35.22	CKRD2420
4.5-32VDC	4.5VDC	1.0VDC	24-280VAC	.15-30A	CC1519-ND	46.94	41.08	37.56	CKRD2430
90-280VAC	90VAC	10VAC	24-280VAC	.15-10A	CC1512-ND	44.00	38.50	35.20	CKRA2410
90-280VAC	90VAC	10VAC	24-280VAC	.15-20A	CC1513-ND	50.24	43.96	40.20	CKRA2420
90-280VAC	90VAC	10VAC	24-280VAC	.15-30A	CC1514-ND	53.68	46.97	42.95	CKRA2430
90-280VAC	90VAC	10VAC	48-530VAC	.15-10A	CC1515-ND	51.80	45.33	41.44	CKRA4810
90-280VAC	90VAC	10VAC	48-530VAC	.15-20A	CC1516-ND	55.44	48.51	44.36	CKRA4820

Phase Controlled Versions

Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
						1	10	25	
4.5-32VDC	4.5VDC	1.0VDC	24-280VAC	.15-10A	CC1528-ND	41.14	36.00	32.92	CKRD2410-10
4.5-32VDC	4.5VDC	1.0VDC	24-280VAC	.15-20A	CC1529-ND	44.02	38.52	35.22	CKRD2420-10
4.5-32VDC	4.5VDC	1.0VDC	24-280VAC	.15-30A	CC1530-ND	46.94	41.08	37.56	CKRD2430-10
90-280VAC	90VAC	10VAC	24-280VAC	.15-10A	CC1523-ND	44.00	38.50	35.20	CKRA2410-10
90-280VAC	90VAC	10VAC	24-280VAC	.15-20A	CC1524-ND	50.24	43.96	40.20	CKRA2420-10
90-280VAC	90VAC	10VAC	24-280VAC	.15-30A	CC1525-ND	53.68	46.97	42.95	CKRA2430-10
90-280VAC	90VAC	10VAC	48-530VAC	.15-10A	CC1526-ND	51.80	45.33	41.44	CKRA4810-10
90-280VAC	90VAC	10VAC	48-530VAC	.15-20A	CC1527-ND	55.44	48.51	44.36	CKRA4820-10

MS11 Series DIN Rail Mount

Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
						1	10	25	
5-10VDC	5VDC	1.0VDC	0-100VDC	0-3A	CC1556-ND	53.72	47.01	42.98	MS11-CMX200D3
5-10VDC	5VDC	1.0VDC	0-100VDC	0-6A	CC1555-ND	52.02	45.52	41.62	MS11-CMX100D6
5-10VDC	5VDC	1.0VDC	0-60VDC	0-5A	CC1558-ND	45.80	40.08	36.64	MS11-CMX60D5
5-10VDC	5VDC	1.0VDC	0-60VDC	0-10A	CC1557-ND	49.80	43.58	39.84	MS11-CMX60D10
5-10VDC	5VDC	1.0VDC	12-280VAC	0-5A	CC1559-ND	31.00	27.13	24.80	MS11-CMX240D5
15-32VDC	5VDC	1.0VDC	12-280VAC	0-5A	CC1560-ND	31.00	27.13	24.80	MS11-CME240D5

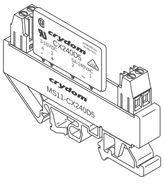

MCTC SSR Temperature

The Crydom MCTC is a unique self-contained state of the art basic temperature controller that combines all the necessary functions into one easy to set up and use standard size package. The MCTC is ideal for temperture control users that do not need multiple built-in options, displays and functions that they will never use. The unit incorporates an internally compensated thermocouple input (J or K), available temperature range of 100~500°F, with adjustable set point using analog voltage of 0-5VDC. With integrated zerocross burst firing, and proportional derivative control to avoid set-point overshoot, the unit also includes 2 LED status indicators for visual reference of operation and set point conditions.

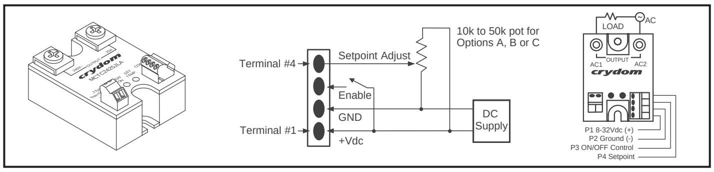

Thermo Input Type	Temperature Range	Setpoint Adjustment	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
						1	10	25	
J Type	100~500°F	0-5VDC	24-280VAC	25A	CC1567-ND	104.00	91.00	83.20	MCTC2425JLA
J Type	100~500°F	0-5VDC	24-280VAC	50A	CC1568-ND	114.00	99.75	91.20	MCTC2450JLA
J Type	100~500°F	0-5VDC	24-280VAC	90A	CC1569-ND	137.00	119.88	109.60	MCTC2490JLA
K Type	100~500°F	0-5VDC	24-280VAC	25A	CC1570-ND	104.00	91.00	83.20	MCTC2425KLA
K Type	100~500°F	0-5VDC	24-280VAC	50A	CC1571-ND	114.00	99.75	91.20	MCTC2450KLA
K Type	100~500°F	0-5VDC	24-280VAC	90A	CC1572-ND	137.00	119.88	109.60	MCTC2490KLA

MCPC Proportional Controller

The Crydom MCPC series of Proportional Controllers incorporate a complete phase-fired logic system and Solid State Relay in one small industry standard package. The MCPC uses microprocessor controlled logic, accepts a wide range input logic power supply, provides an output load status indicator, and five modes of analog control input along with an enable/disable control.

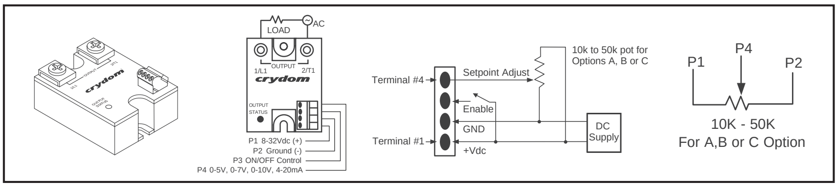

Input Voltage	Adjustment Range	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
					1	10	25	
0-5VDC	0-100% with Enable	48-140VAC	0-25A	CC1573-ND	79.00	69.13	63.20	MCPC1225A
0-5VDC	0-100% with Enable	48-140VAC	0-50A	CC1574-ND	85.00	74.38	68.00	MCPC1250A
0-5VDC	0-100% with Enable	48-140VAC	0-90A	CC1575-ND	103.00	90.13	82.40	MCPC1290A
0-5VDC	0-100% with Enable	180-280VAC	0-25A	CC1576-ND	79.00	69.13	63.20	MCPC2425A
0-5VDC	0-100% with Enable	180-280VAC	0-50A	CC1577-ND	85.00	74.38	68.00	MCPC2450A
0-5VDC	0-100% with Enable	180-280VAC	0-90A	CC1578-ND	103.00	90.13	82.40	MCPC2490A

CW Series

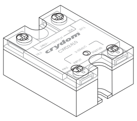

Crydom's CW24 line of solid state relays offer an SCR AC switch output featuring low offstate leakage (1mA, snubberless), zero and random voltage switching and a broadened operating range (24-280Vac). This wide range permits optimum performance at both 120 Vac and 240 Vac line voltages. Also includes safe removable finger-safe cover and LED indicator.

Zero Cross Versions

Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
						1	10	25	
3-32VDC	3.0VDC	1.0VDC	24-280VAC	.15-10A	CC1539-ND	35.80	31.33	28.64	CWD2410
3-32VDC	3.0VDC	1.0VDC	24-280VAC	.15-25A	CC1541-ND	36.16	31.64	28.93	CWD2425
3-32VDC	3.0VDC	1.0VDC	24-280VAC	.15-50A	CC1543-ND	42.24	36.96	33.80	CWD2450
3-32VDC	3.0VDC	1.0VDC	24-280VAC	.15-90A	CC1545-ND	74.28	65.00	59.43	CWD2490
90-280VAC	90VAC	10VAC	24-280VAC	.15-10A	CC1531-ND	37.86	33.13	30.29	CWA2410
90-280VAC	90VAC	10VAC	24-280VAC	.15-25A	CC1533-ND	38.60	33.78	30.88	CWA2425
90-280VAC	90VAC	10VAC	24-280VAC	.15-50A	CC1535-ND	43.70	38.24	34.96	CWA2450
90-280VAC	90VAC	10VAC	24-280VAC	.15-90A	CC1537-ND	77.20	67.55	61.76	CWA2490

Phase Controlled Versions

Input Voltage	Operate Voltage	Release Voltage	Output Voltage	Output Current (Arms)	Digi-Key Part No.	Price Each			Crydom Part No.
						1	10	25	
3-32VDC	3.0VDC	1.0VDC	24-280VAC	.15-10A	CC1540-ND	35.80	31.33	28.64	CWD2410-10
3-32VDC	3.0VDC	1.0VDC	24-280VAC	.15-25A	CC1542-ND	36.16	31.64	28.93	CWD2425-10
3-32VDC	3.0VDC	1.0VDC	24-280VAC	.15-50A	CC1544-ND	42.24	36.96	33.80	CWD2450-10
3-32VDC	3.0VDC	1.0VDC	24-280VAC	.15-90A	CC1546-ND	74.28	65.00	59.43	CWD2490-10
90-280VAC	90VAC	10VAC	24-280VAC	.15-10A	CC1532-ND	37.86	33.13	30.29	CWD2410-10
90-280VAC	90VAC	10VAC	24-280VAC	.15-25A	CC1534-ND	38.60	33.78	30.88	CWD2425-10
90-280VAC	90VAC	10VAC	24-280VAC	.15-50A	CC1536-ND	43.70	38.24	34.96	CWD2450-10
90-280VAC	90VAC	10VAC	24-280VAC	.15-90A	CC1538-ND	77.20	67.55	61.76	CWD2490-10

General Cable CAROL® BRAND Hook-Up Wire

Conductor: • Fully annealed tinned copper per ASTM B-33 **Insulation:** • Premium grade color coded PVC • Temperature Range: -20°C ~ 105°C • Voltage Rating: 300 Volts • Nominal Insulation Thickness: 0.016 (0.41mm) **Industry Approvals:** • UL Style 1007 • CSA TR-64 • Passes UL VW-1 Vertical Flame Test • OSHA acceptable.

Cond. Size (AWG)	Cond. Strand	Ins. O.D. (mm)	Digi-Key* Part No. for 100 ft.	Price 100 ft.†	Digi-Key* Part No. for 1000 ft.	Price 1,000 ft.†	General Cable Part No.
Solid Conductors							
24	Solid	1.32	C2003☐-100-ND	14.07	C2003☐-1000-ND	53.80	C2003
22	Solid	1.45	C2004☐-100-ND	14.92	C2004☐-1000-ND	62.30	C2004
20	Solid	1.63	C2028☐-100-ND	17.27	C2028☐-1000-ND	85.84	C2028
18	Solid	1.83	C2052☐-100-ND	20.39	C2052☐-1000-ND	117.05	C2052
16	Solid	2.11	C2053☐-100-ND	24.36	C2053☐-1000-ND	156.70	C2053
Stranded Conductors							
24	7/32	1.42	C2015☐-100-ND	15.00	C2015☐-1000-ND	63.15	C2015
22	7/30	1.57	C2016☐-100-ND	16.08	C2016☐-1000-ND	73.96	C2016
20	10/30	1.78	C2040☐-100-ND	18.18	C2040☐-1000-ND	94.97	C2040
18	16/30	2.03	C2064☐-100-ND	21.87	C2064☐-1000-ND	131.79	C2064
16	26/30	2.34	C2065☐-100-ND	27.08	C2065☐-1000-ND	183.96	C2065

Stranded, PVC Insulation UL Style 1015, TEW, PVC, 600V 105°C, VW-1

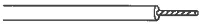

Cond. Size (AWG)	Strand	Nom. O.D. (mm)	Insulation Thickness	Digi-Key* Part No. for 100 ft.	Price 100 ft.†	Digi-Key* Part No. for 1000 ft.	Price 1,000 ft.†	General Cable Part No.
Stranded								
24	7/32	2.24	0.81mm	C2100☐-100-ND	15.74	C2100☐-1000-ND	70.52	C2100
22	7/30	2.39	0.81mm	C2101☐-100-ND	17.30	C2101☐-1000-ND	86.11	C2101
20	10/30	2.59	0.81mm	C2102☐-100-ND	19.53	C2102☐-1000-ND	109.24	C2102
18	16/30	2.84	0.81mm	C2103☐-100-ND	21.88	C2103☐-1000-ND	132.78	C2103
16	26/30	3.15	0.81mm	C2104☐-100-ND	28.54	C2104☐-1000-ND	99.45	C2104
14	41/30	3.58	0.81mm	C2105☐-100-ND	35.82	C2105☐-1000-ND	276.05	C2105
10	105/30	4.67	0.81mm	C2107☐-100-ND	73.60	C2107☐-1000-ND	632.95	C2107
Solid								
22	1	2.26	0.81mm	C2117☐-100-ND	16.22	C2117☐-1000-ND	75.30	C2117
20	1	2.44	0.81mm	C2118☐-100-ND	18.52	C2118☐-1000-ND	98.29	C2118
18	1	2.64	0.81mm	C2119☐-100-ND	21.96	C2119☐-1000-ND	133.55	C2119

* For ☐ in Digi-Key Part No. choose letter which represents color of your choice: **B**=Black; **W**=White; **R**=Red; **G**=Green; **A**=Orange; **Y**=Yellow; **L**=Blue; **N**=Brown; **S**=Slate Gray; **V**=Violet.

† Length tolerance is ±1% • Wire is ordered per EIA-359-A color specification which allows for some variation in shade.

Audio and Communication

C1331 AND C1340 – **Conductor:** • 22 thru 20 AWG fully annealed stranded tinned copper per ASTM B-33 **Insulation:** • **C1331:** Premium grade, color coded PVC • **C1340:** Premium grade, color coded polypropylene **Shield:** • 100% Flexfoil® aluminum/polyester over 2 conductors, 25% overlap, minimum, foil facing out • Stranded tinned copper drain wire **Jacket:** • PVC, gray • Temperature Range: -20°C ~ 80°C **Applications:** • Audio • Communications • EMI isolated circuits for instrumentation

C2509 – **Conductor:** • 20 AWG fully annealed solid tinned copper per ASTM B-33 **Insulation:** • Premium grade, color coded polyethylene **Shield:** • 100% Flexfoil® aluminum/polyester with 25% overlap, minimum, foil facing out • Solid tinned copper drain wire **Jacket:** • Permaline® high density polyethylene, Black • Temperature Range: -20°C ~ 80°C **Applications:** • Suitable for direct burial • Outdoor uses • 100% shielded cable where RF shielding is required • Suggested Voltage Rating: 350 Volts

Fig. 1

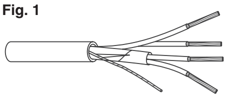

Fig. 2

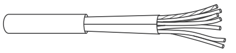

No. of Cond.	Cond. Size (AWG)	Strand	Nominal Insulation Thickness (mm)	Nominal O.D. (mm)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	1,000 ft.	5,000 ft.	General Cable Part No.
Fig. 1 — UL Style 2095, 300 Volt NEC Type CL2, Gray									
4	20	7/28	0.41	5.84	C1331-X-ND	50.89	283.09	—	C1331.41.10
Fig. 1 — UL Style 2835, 30 Volt, Gray									
4	22	7/30	0.20	4.24	C1340-X-ND	36.23	188.00	—	C1340.21.10
Fig. 2 — UL Style C2509, 350 Volt, Black									
2	20	Solid	0.33	4.83	C2509-X-ND	—	233.44	745.50	C2509.46.01

Rubber/PVC Test Lead Wire

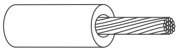

Conductor: • Fully annealed stranded tinned copper per ASTM B-33 **Insulation:** • Premium grade color coded Rubber or PVC • Temperature Range: -20°C ~ 60°C, Rubber; -25°C ~ 60°C, PVC

No. of Cond.	Cond. Size (AWG)	Strand	Nominal Insulation Thickness (mm)	Working Voltage	Color	Nom. O.D. (mm)	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	1,000 ft.	General Cable Part No.
Rubber Test Leads										
1	18	65/36	1.14	5,000V	Black	3.56	C1321B-X-ND	33.72	130.50	C1321.21.01
1	18	65/36	1.14	5,000V	Red	3.56	C1321R-X-ND	33.72	130.50	C1321.21.03
PVC Test Leads										
1	18	65/36	1.14	5,000V	Black	3.56	C1320B-X-ND	29.02	105.42	C1320.21.01
1	18	65/36	1.14	5,000V	Red	3.56	C1320R-X-ND	29.02	105.42	C1320.21.03

General Cable CAROL® BRAND PVC Coated Speaker Cable

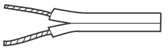

- **Conductor:** Fully annealed 1 bare, 1 tin stranded copper per ASTM B-174; Fully annealed stranded bare copper per ASTM B-3 (C1364 style only)**
- **Insulation:** Clear; Premium grade PVC; Premium grade Superflex PVC (C1364 style only)**
- **Jacket:** PVC Clear
- **Temperature Range**: -20°C ~ 60°C
- **Voltage Rating:** UL listed (wires, misc.) 120V max.

† Length tolerance is ±10%

No. of Cond.	Cond. Size (AWG)	Strand	Nominal Insulation Thickness (mm)	Nominal O.D. (mm)	Suggested Working Voltage	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 500 ft.†	1,000 ft.†	General Cable Part No.
2	24	7/32	0.41	1.40 x 2.79	120	C1356-X-ND	26.40	47.52	C1356
2	22	7/30	0.51	1.78 x 3.68	120	C1362-X-ND	39.44	72.66	C1362
2	20	10/30	0.51	2.16 x 4.06	120	C1360-X-ND	52.31	98.80	C1360
2	18	16/30	0.64	2.54 x 4.75	120	C1357-X-ND	63.56	119.86	C1357
2	16	26/30	0.64	2.84 x 5.33	120	C1358-X-ND	93.53	176.05	C1358
2	14	41/30	0.64	3.05 x 5.84	120	C1361-X-ND	148.57	279.11	C1361
2	12	65/30	0.76	4.06 x 8.51	120	C1363-X-ND	235.49	456.24	C1363
2	12	7 x 37/36	1.52	5.84 x 11.94	120	C1364-X-ND**	356.72	690.42	C1364

OK Industries
Division of Jonard Industries Corp.

Wire Strippers

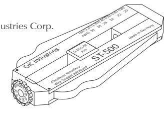

Features:
• Calibrated Strip Length (Adjustable to 2 inches) • Single action squeeze-pull motion • Clean, precise strip of any insulation type • Shirt-pocket size and light weight

K503-ND 20 - 30 AWG **$47.92**
K276-ND 18 - 28 AWG **$47.92**

DABURN PVC Coated Speaker Cable

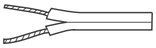

- Conductors are parallel, stranded copper
- Suited for Hi-Fi speaker cable
- Clear insulation
- **Temperature Rating:** - 20°C ~ 60°C
- **Operating Voltage:** 300 Volts

Cond.	Size	Strand	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.	1,000 ft.	Daburn Part No.
2*	22	7/30	W200-X-ND	7.29	57.05	2753
2*	18	16/30	W201-X-ND	13.60	110.76	2759C
2*	16	26/30	W202-X-ND	17.77	142.89	2760

* 1 Conductor Tinned Copper; 1 Conductor Bare Copper

tyco Electronics AMP

Cable Stripper

A1110-ND Cable Stripping Tool for RG/58, 59

(AMP Part No. 603995-1) .. **$108.68**

MILLER® Wire Strippers

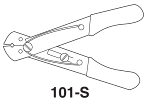

101-S

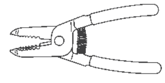

721, 821, 921

101-S WIRE STRIPPER:
Handy, lightweight, universal stripping tool cuts and strips common wire sizes. Hardened blades. Plastic grips. Spring action to speed work. Full length: 5.125" (130.18mm)

721, 821, 921 WIRE STRIPPERS:
Strip and cut commonly used wire, single or stranded, AWG or metric. Each tool will strip several different wire sizes. Narrow nose plier design is an extra feature along with cushion grips and spring release. Hardened pivot joint for longer life. A perfect tool for solder benches or assembly areas.

101-S-ND Up to 10 AWG........................ **$7.84**
721-ND 10 - 20 AWG **$15.05**
821-ND 16 - 26 AWG **$15.05**
921-ND 20 - 30 AWG **$15.05**

PATCO SERVICE INC. Thermal Wire Strippers

PTS-30-ND

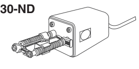

PTS-10-ND
PTS-20-ND

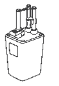

• Nichrome, heating element: 450°F (232°C) in less than 5 seconds. • Teflon stripper 1700°F (927°C) in less than 5 seconds • Eliminates nicks and broken strands of conductors • Handles solid, stranded and shielded wires • Does not burn skin • AC line power or rechargeable battery power versions • Complete with cleaning brush and operating instructions.

Description	Digi-Key Part No.	Price Each
Thermal Wire Stripper, Battery Powered with Cleaning Brush-	PTS-20-ND*	104.47
Replacement Blade for PTS-20	PTS-201-ND	5.04
Thermal Wire Stripper with Cleaning Brush	PTS-10-ND*	59.41
Replacement Blade for PTS-10-ND	PTS-101-ND	5.19
Teflon Wire Stripper for 16-30 AWG	PTS-30-ND	97.00
Replacement Blade for PTS-30-ND	PTS-302-ND	5.32

* Will not strip Teflon wire.

DABURN Plastic Kinkless Test Lead Wire

Soft formulation vinyl maximum flexibility. Temperature stability from -80°C ~ 105°C. Exceed requirements for MIL-I-3930A Type JP(PVC). Suitable for test leads, etc. Resistant to gasoline and oil. Excellent abrasion resistance. **Description:** One conductor tinned copper stranded, special formulation vinyl insulation - smooth surface.
Operating Temperature: -80°C ~ 105°C, 5000V rating.

Ft.	Size	Strand	Ins. (mm)	O.D. Nom.	Digi-Key Part No. Red	Black	Yellow	Green	Price Per Roll
100	22	26/36	.81	2.54	W2722R-100-ND	W2722B-100-ND	W2722Y-100-ND	W2722G-100-ND	14.25
1000	22	26/36	.81	2.54	W2722R-1000-ND	W2722B-1000-ND	W2722Y-1000-ND	W2722G-1000-ND	94.17
100	18	65/36	.81	2.84	W2718R-100-ND	W2718B-100-ND	W2718Y-100-ND	W2718G-100-ND	24.05
1000	18	65/36	.81	2.84	W2718R-1000-ND	W2718B-1000-ND	W2718Y-1000-ND	W2718G-1000-ND	164.65

Rubber Kinkless Test Lead Wire

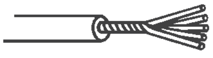

Suitable as Test Lead Wire in analyzers, instruments, oscillators, meters, etc. Wherever extra flexibility and limpness are necessary. Single conductor, extra flexible stranded soft tinned copper, color-coded rubber, smooth wax finish. **Operating Temperature:** -20°C ~ 60°C.

Ft.	Size	Nom. Strand	Breakdown Ins. Wall	Voltage	Nom. Voltage	O.D. Nom.	Digi-Key Part No. Red	Black	Price Per Roll
100	20	41/36	1.19mm	12,000V	3,000	3.48mm	W2715R-100-ND	W2715B-100-ND	41.16
1000	20	41/36	1.19mm	12,000V	3,000	3.48mm	W2715R-1000-ND	W2715B-1000-ND	271.95

General Cable CAROL® BRAND

Multi-Conductor Cable

LL46351 E26174

UL Style 2464
80° 300/V.

COLOR CODE CHART NO. 1

No.	Color	No.	Color	No.	Color
1	Black	11	Pink	21	White/Brown
2	White	12	Tan	22	White/Orange
3	Red	13	Red/Green	23	White/Gray
4	Green	14	Red/Yellow	24	White/Violet
5	Brown	15	Red/Black	25	Wht/Blk/Red
6	Blue	16	White/Black	26	Wht/Blk/Grn
7	Orange	17	White/Red	27	Wht/Blk/Yel
8	Yellow	18	White/Green	28	Wht/Blk/Blu
9	Violet	19	White/Yellow	29	Wht/Blk/Brn
10	Gray	20	White/Blue	30	Wht/Blk/Org

COLOR CODE CHART NO. 2

No.	Color	No.	Color	No.	Color
1	Black	11	Blue/Black	21	Orange/Green
2	White	12	Black/White	22	Blk/Wht/Red
3	Red	13	Red/White	23	Wht/Blk/Red
4	Green	14	Green/White	24	Red/Blk/Wht
5	Orange	15	Blue/White	25	Grn/Blk/Wht
6	Blue	16	Black/Red	26	Org/Blk/Wht
7	White/Black	17	White/Red	27	Blu/Blk/Wht
8	Red/Black	18	Orange/Red	28	Blk/Red/Grn
9	Green/Black	19	Blue/Red	29	Wht/Red/Grn
10	Orange/Black	20	Red/Green	30	Red/Blk/Grn

COLOR CODE CHART NO. 3

No.	Color	No.	Color
1	Black	3	Red
2	Natural	4	Green

COLOR CODE CHART NO. 4

No.	Color	No.	Color
1	Black	3	White
2	Red	4	Green

Notes:

1. UL-2092 (UL: 60°C, 300V)
2. UL-2093 (UL: 60°C, 300V)
3. UL-2106 (UL: 60°C, 600V)
4. NEC Article 725 Type CL2 (UL: 75°C)
5. UL Style 2464 (UL: 80°C, 300V)
6. NEC Article 800 Type CM (UL: 75°C)
7. CSA PCC (60°C)
8. Passes UL 70,000 BTU Vertical Tray Flame Test
9. Passes CSA FT1 Flame Test
10. OSHA acceptable
11. NEC Article 725 (UL: 60°C)
12. California State Fire Marshal
13. Passes CSA FT6 Flame Test
14. NEC Article 725 Type CL3 (UL: 75°C)
15. NEC Article 800 (UL: 60°C)
16. CM-CSA PCC FT4, non UL2464
17. NEC Article 725 Power-Limited Tray Cable (UL: 105°C, 300V)
18. NEC Type CL3P only

A. Capacitance between conductors
B. Cap. between 1 conductor & other conductors connected to shield

Non-Plenum

General Specifications: • Temperature Range: -20°C ~ 80°C (UL 80°C) • Voltage Rating: 150V (UL) • Each conductor stranded tinned copper • Color coded PVC insulation • Nominal Ins. Thickness: .010" (.25mm) • Gray PVC jacket • Conductors: 22AWG 7 x 30 Tinned Copper; 24 AWG 7 x 32 Tinned Copper • Insulation: SR PVC • Construction: Conductors cabled with Foil Shield 22/24 AWG stranded tin drain wire • Jacket: Chrome Vinyl 80°C • Application: For use with computers & instrumentation. 80°C, 300 V, CSA, SR-PC. Also for use in Class 2 and 3 circuits as described in Art of NEDC

Series C2534/C2535/C2536: • Conductor: Fully annealed stranded tinned copper per ASTM B-33 • Shield: 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out, stranded tinned copper drain wire • Insulation: Premium grade color coded polyethylene • Jacket: Gray PVC • Temperature Range: -20°C ~ 75°C

Series C0454: • Conductor: 22-12AWG fully annealed stranded tinned copper per ASTM B-33 • Insulation: Premium grade color coded PVC • Shield: 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out; Stranded tinned copper drain wire • Jacket: Gray PVC; Temperature Range: -20°C ~ 105°C

Series C2543: • Conductor: 18 AWG fully annealed stranded tinned copper per ASTM B-33 • Insulation: Premium grade color coded S-R PVC • Shield: 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out; Stranded tinned copper drain wire • Jacket: Gray PVC ; Temperature Range: -20°C ~ 80°C

Series C2830/C2404/C2412: • Conductor: 18 AWG fully annealed stranded tinned copper per ASTM B-33 • Insulation: Premium grade color coded PVC per UL 1007 • Jacket: Gray PVC; Temperature Range: -20°C t~80°C

Series C2428: • Conductor: Fully annealed stranded tinned copper per ASTM B-33 • Insulation: Premium grade color coded PVC • Jacket: Gray PVC • Temperature Range: -20°C ~ 80°C

Series C0755: • Conductor: Fully annealed stranded tinned copper per ASTM B-33 • Shield: 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out, stranded tinned copper drain wire • Insulation: Premium grade color coded semi-rigid PVC per UL 1061 • Jacket: Gray PVC • Temperature Range: -20°C ~ 80°C

Plenum

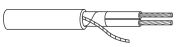

Series C3062/C3159/C3063/C3065/C3068: • Conductor: Fully annealed stranded tinned copper per ASTM B-3, B8, or B33 • Insulation: Premium grade color coded Flexguard • Shield: 100% Flexfoil aluminum/polyester foil, 25% overlap, stranded tinned copper drain wire • Jacket: Flexguard, Natural • Temperature Range: 0°C ~ 60°C • Sequential footage marked to facilitate installations • Includes ripcord

Series C3162: • Conductor: Fully annealed stranded tinned copper per ASTM B-3, B8 or B33 • Insulation: Premium grade color coded Flexguard • Shield: 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out, stranded tinned copper drain wire • Jacket: Natural Fluoropolymer • Temperature Range: -20°C ~ 60°C

Series:C3112/C3113/C3120/C3121/C3122/C3127/C3128: • Conductor: Fully annealed stranded tinned copper or bare copper to ASTM B3, B8 or B33 • Insulation: Premium grade color coded Flexguard • Jacket: Flexguard, Natural • Temperature Range: 0°C ~ 60°C • Sequential footage marked to facilitate installation • Includes ripcord

No. of Cond	Color Chart	Cond. Size (AWG)	Cond. Strand	Size of Drain Wire	Nominal Insulation Thickness Inches (mm)	Nominal Jacket Thickness Inches (mm)	Suggested Working Voltage	Nominal O.D. Inches (mm)	Nominal Cap. pF/FT (See Notes A / B)		Nominal Ω/M @ 20°C Conductor/Shield		Notes	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll			Mfg. Part No.
															100 ft.†	500 ft. #	1,000 ft. #	
NON-PLENUM																		
Unshielded — 22AWG-7/30 Stranded																		
2	Red/Blk	22	7/30	—	0.010 (0.25)	0.025 (0.64)	300V	0.150 (3.81)	25.5	—	—		9	W120-X-ND	25.59	51.39	97.07	C6348
3	Blk/Rd/Gn	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.176 (4.47)	25.5	—	—		5, 6, 7, 8, 9, 10	W121-X-ND	35.65	75.34	142.07	C4062
4	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.189 (4.80)	25.5	—	—		5, 6, 7, 8, 9, 10	W122-X-ND	43.82	98.46	185.33	C4063
5	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.203 (5.16)	25.5	—	—		5, 6, 7, 8, 9, 10	W123-X-ND	47.02	108.32	203.90	C4064
6	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.218 (5.54)	25.5	—	—		5, 6, 7, 8, 9, 10	W124-X-ND	54.28	126.93	246.16	C4066
7	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.218 (5.54)	25.5	—	—		5, 6, 7, 8, 9, 10	W125-X-ND	59.18	141.62	266.06	C4088
8	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.234 (5.94)	25.5	—	—		5, 6, 7, 8, 9, 10	W126-X-ND	65.30	159.98	300.56	C4065
9	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.249 (6.32)	25.5	—	—		5, 6, 7, 8, 9, 10	W127-X-ND	75.15	183.79	356.08	C4070
10	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.268 (6.81)	25.5	—	—		5, 6, 7, 8, 9, 10	W128-X-ND	81.98	296.21	394.61	C4071
12	1	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.276 (7.01)	25.5	—	—		5, 6, 7, 8, 9, 10	W129-X-ND	91.71	231.98	449.45	C4067
15	2	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.303 (7.70)	25.5	—	—		5, 6, 7, 8, 9, 10	W130-X-ND	126.08	319.25	617.90	C4073
25	2	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.368 (9.35)	25.5	—	—		5, 6, 7, 8, 9, 10	W132-X-ND	204.62	529.59	990.84	C4076
30	2	22	7/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.389 (9.88)	25.5	—	—		5, 6, 7, 8, 9, 10	W133-X-ND	246.78	951.01	1213.13	C4077
Overall Foil Shielded (100% Aluminum Mylar Foil) — 22AWG-7/30 Stranded																		
4	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.190 (4.83)	36.0	65.0	15.0	12.0	5, 6, 7, 8, 9, 10	W504-X-ND	50.49	115.55	224.08	C0762
6	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.219 (5.56)	34.0	61.0	15.0	12.0	5, 6, 7, 8, 9, 10	W506-X-ND	61.39	148.27	278.55	C0763
8	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.235 (5.97)	34.0	61.0	15.0	10.7	5, 6, 7, 8, 9, 10	W508-X-ND	77.32	190.10	368.31	C0764
10	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.269 (6.83)	34.0	61.0	15.0	10.7	5, 6, 7, 8, 9, 10	W510-X-ND	92.12	233.17	451.75	C0765
15	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.304 (7.72)	34.0	61.0	15.0	10.7	5, 6, 7, 8, 9, 10	W515-X-ND	132.88	338.43	655.02	C0766
20	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.335 (8.51)	34.0	61.0	15.0	9.1	5, 6, 7, 8, 9, 10	W520-X-ND	176.52	—	842.65	C0767
25	2	22	7/30	22	0.010 (0.25)	0.032 (0.81)	300V	0.369 (9.37)	34.0	61.0	15.0	9.1	5, 6, 7, 8, 9, 10	W525-X-ND	208.65	795.04	1012.10	C0768
Overall Foil Shielded (100% Aluminum Mylar Foil) — 24AWG-7/32 Stranded																		
4	1	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.175 (4.45)	33.0	59.4	26.0	18.0	5, 6, 7, 8, 9, 10	W404-X-ND	42.26	93.64	176.24	C0742
6	1	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.201 (5.11)	33.0	59.4	26.0	16.0	5, 6, 7, 8, 9, 10	W406-X-ND	50.63	115.98	224.91	C0743
8	1	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.215 (5.46)	33.0	59.4	26.0	16.0	5, 6, 7, 8, 9, 10	W408-X-ND	59.21	141.70	266.23	C0744
10	1	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.245 (6.22)	30.0	59.4	26.0	14.0	5, 6, 7, 8, 9, 10	W410-X-ND	70.95	—	332.44	C0745
15	2	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.276 (7.01)	30.0	59.4	26.0	14.0	5, 6, 7, 8, 9, 10	W415-X-ND	104.42	268.94	521.08	C0746
20	2	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.303 (7.70)	30.0	59.4	26.0	14.0	5, 6, 7, 8, 9, 10	W420-X-ND	137.36	340.04	658.13	C0747
25	2	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.333 (8.46)	30.0	59.4	26.0	12.0	5, 6, 7, 8, 9, 10	W425-X-ND	166.16	421.21	788.06	C0748
30	2	24	7/32	24	0.010 (0.25)	0.032 (0.81)	300V	0.351 (8.92)	30.0	59.4	26.0	12.0	5, 6, 7, 8, 9, 10	W430-X-ND	203.57	—	985.30	C0749
Multi-Conductor Foil Shield																		
2	3	22	7/30	—	0.016 (0.41)	0.026 (0.66)	300V	0.179 (4.55)	26.0	47.0	—		1,2,3,4,5,6,7,8,9,10	C2514-1000-ND	—	—	157.41	C2514
2	Blk/Red	18	16/30	—	0.013 (0.33)	0.037 (0.94)	300V	0.227 (5.77)	50.0	90.0	—		8, 17	C0454-1000-ND	—	—	263.68	C0454
2	3	18	16/30	20.00	0.018 (0.46)	0.030 (0.76)	300V	0.229 (5.82)	24.0	43.0	—		1	C2534-X-ND	54.08	126.32	244.99	C2534
3	3	18	16/30	20.00	0.018 (0.46)	0.030 (0.76)	300V	0.247 (6.27)	22.0	40.0	—		2	C2535-X-ND	67.33	—	307.38	C2535
4	4	18	19/30	—	0.010 (0.25)	0.032 (0.81)	300V	0.238 (6.05)	50.0	90.0	—		5, 6, 7, 8, 18	C2543-1000-ND	—	—	444.12	C2543
2	3	16	19/.0117	18.00	0.032 (0.81)	0.032 (0.81)	600V	0.314 (7.98)	27.0	49.0	—		3, 4	C2536-X-ND	71.41	—	335.03	C2536
9	1	24	7/32	—	0.010 (0.25)	0.032 (0.81)	300V	0.228 (5.79)	30.0	59.4	26.0	16.0	5, 6, 7, 8, 9, 10	C0755-X-ND	63.40	—	289.87	C0755
Multi-Conductor Unshielded																		
2	Blk/Red	18	16/30	—	0.016 (0.41)	0.025 (0.64)	300V	0.210 (5.33)	28.0	—	—		5, 6, 7, 8, 16, 18	C2830-1000-ND	—	—	193.26	C2830

† Length tolerance is ±1%. Spools are not UL/CSA marked # Length tolerance is ±10%

(Continued)

Multi-Conductor Cable *(Cont.)*

No. of Cond	Color Chart	Cond. Size (AWG)	Cond. Strand	Size of Drain Wire	Nominal Insulation Thickness Inches (mm)	Nominal Jacket Thickness Inches (mm)	Suggested Working Voltage	Nominal O.D. Inches (mm)	Nominal Cap. pF/FT (See Notes A /B)	Nominal Ohms/M @ 20°C Conductor/Shield	Notes	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.†	500 ft. #	1,000 ft. #	Mfg. Part No.
4	2	18	16/30	—	0.016 (0.41)	0.032 (0.81)	300V	0.258 (6.55)	28.0 —	—	5, 6, 7, 8, 18	C2404-1000-ND	—	—	344.97	C2404
12	2	18	16/30	—	0.016 (0.41)	0.032 (0.81)	300V	0.401 (10.19)	28.0 —	—	5, 6, 7, 8, 18	C2412-1000-ND	—	—	872.00	C2412
15	2	16	19/.0117	—	0.021 (0.53)	0.032 (0.81)	300V	0.534 (13.56)	28.0 —	—	5, 6, 7, 8, 9, 10, 14	C2428-X-ND	—	—	1718.82	C2428
PLENUM																
Multi-Conductor Foil Shield — Plenum																
4	1	22	7/30 TC	—	0.008 (0.20)	0.015 (0.38)	150V	0.146 (3.71)	44.0 79.2	—	11, 15	C3159-1000-ND	—	—	245.23	C3159
2	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.164 (4.17)	61.0 109.8	—	11, 15	C3062-1000-ND	—	—	229.15	C3062
2	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.147 (3.73)	53.0 95.4	—	6, 11, 12, 13	C3162-X-ND	63.15	—	288.47	C3162
4	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.186 (4.72)	54.0 97.2	—	11, 15	C3063-1000-ND	—	—	365.58	C3063
6	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.223 (5.66)	54.0 97.2	—	11, 15	C3065-1000-ND	—	—	527.73	C3065
2	1	16	19/0117 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.187 (4.75)	70.0 126.0	—	11, 15	C3068-1000-ND	—	—	345.20	C3068
Multi-Conductor Unshielded — Plenum																
2	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.130 (3.30)	35.0 —	—	11, 12, 15	C3112-1000-ND	—	—	188.61	C3112
3	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.166 (4.22)	35.0 —	—	11, 15	C3120-1000-ND	—	—	259.36	C3120
4	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.178 (4.52)	35.0 —	—	11, 12, 15	C3113-1000-ND	—	—	316.65	C3113
6	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.219 (5.56)	35.0 —	—	11, 15	C3121-1000-ND	—	—	498.67	C3121
8	1	18	7/26 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.239 (6.07)	35.0 —	—	11, 15	C3122-1000-ND	—	—	611.18	C3122
2	1	16	19/.0117 BC	—	0.008 (0.20)	0.015 (0.38)	150V	0.147 (3.73)	39.0 —	—	11, 15	C3127-1000-ND	—	—	273.28	C3127
2	1	14	19/.0117 BC	—	0.010 (0.25)	0.015 (0.38)	150V	0.182 (4.62)	39.0 —	—	11, 15	C3128-1000-ND	—	—	398.75	C3128

† Length tolerance is ±1%. Spools are not UL/CSA marked # Length tolerance is ±10%

AMERICAN ELECTRICAL INC.
MFG. for AMERICAN ELECTRICAL INC. by AGRO

Tight Seal IP68 Nylon Cable Grips (Glands) with Lock Nuts

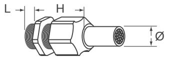

Application: The use of synthetic cable grips is almost unlimited within the electrical and electronics industry. Installations where cables must be led safely through a wall of an enclosure will be specified with cable grips. Synthetic cable grips are specified to: • Secure the cable to the enclosure's wall to provide excellent pull-out resistance. • Seal and protect the inside of the enclosure from the unwanted affects of the environment. These contaminants may be water, gas, chemical vapors, or fumes. • Reduce material cost due to use of lighter, less expensive materials, as well as, eliminating the need for running conduit.

Technical Data:
- **Material:** Polyamide PA 6, Self-Extinguishing, Halogen-free
- **Seal:** Neoprene, Oil, and Petroleum Resistant
- **Operating Temperature:** Static (-40°C ~ 100°C), Dynamic (-30°C ~ 80°C)
- **Safety Class:** IP68, Waterproof (5 Bar)
- **VDE Test Report:** 12 796-9000-4001/A 2 J

Color	Thread Type	Cable Diameter (mm)	Dim. (mm) H	L	Digi-Key Part No.	Price Each 1	10	100	American Electrical Part No.
Black	7-PG	2.5-6.5	21	8	288-1164-ND	1.18	1.06	.83	1545.07.06
	9-PG	3.0-8.0	23	8	288-1165-ND	1.40	1.26	.98	1545.09.08
	11-PG	4.0-10.0	22	8	288-1166-ND	1.50	1.35	1.05	1545.11.10
	11-PG	2.0-7.0	22	8	288-1167-ND	1.73	1.56	1.21	1545.11.07
	13-PG	5.5-12.0	26	9	288-1168-ND	1.80	1.62	1.26	1545.13.12
	13-PG	3.0-7.0	26	9	288-1169-ND	2.00	1.80	1.40	1545.13.07
	16-PG	8.5-14.0	30	10	288-1170-ND	1.95	1.76	1.37	1545.16.14
	16-PG	5.0-11.0	30	10	288-1171-ND	2.23	2.01	1.56	1545.16.11
	21-PG	11.0-18.0	35	11	288-1172-ND	3.20	2.88	2.24	1545.21.18
	21-PG	6.5-14.0	35	11	288-1173-ND	3.50	3.15	2.45	1545.21.14
	3/8-NPT	3.0-8.0	23	8	288-1178-ND	1.20	1.08	.84	1545.N0375.08
	1/2-NPT	5.5-12.0	26	9	288-1179-ND	1.65	1.49	1.16	1545.N0500.12
	1/2-NPT	3.0-7.0	26	9	288-1180-ND	1.80	1.62	1.26	1545.N0500.07
	3/4-NPT	11.0-18.0	35	11	288-1181-ND	2.63	2.37	1.84	1545.N0750.18
	3/4-NPT	6.5-14.0	35	11	288-1182-ND	2.85	2.57	2.00	1545.N0750.14
	1-NPT	17.0-22.0	36	15	288-1183-ND	4.03	3.63	2.82	1545.N1000.22

Color	Thread Type	Cable Diameter (mm)	Dim. (mm) H	L	Digi-Key Part No.	Price Each 1	10	100	American Electrical Part No.
Gray	7-PG	2.5-6.5	21	8	288-1184-ND	1.18	1.06	.83	1555.07.06
	9-PG	3.0-8.0	23	8	288-1185-ND	1.40	1.26	.98	1555.09.08
	11-PG	4.0-10.0	22	8	288-1186-ND	1.50	1.35	1.05	1555.11.10
	11-PG	2.0-7.0	22	8	288-1187-ND	1.73	1.56	1.21	1555.11.07
	13-PG	5.5-12.0	26	9	288-1188-ND	1.80	1.62	1.26	1555.13.12
	13-PG	3.0-7.0	26	9	288-1189-ND	2.00	1.80	1.40	1555.13.07
	16-PG	8.5-14.0	30	10	288-1190-ND	1.95	1.76	1.37	1555.16.14
	16-PG	5.0-11.0	30	10	288-1191-ND	2.23	2.01	1.56	1555.16.11
	21-PG	11.0-18.0	35	11	288-1192-ND	3.20	2.88	2.24	1555.21.18
	21-PG	6.5-14.0	35	11	288-1193-ND	3.50	3.15	2.45	1555.21.14
	3/8-NPT	3.0-8.0	23	8	288-1198-ND	1.20	1.08	.84	1555.N0375.08
	1/2-NPT	5.5-12.0	26	9	288-1199-ND	1.65	1.49	1.16	1555.N0500.12
	1/2-NPT	3.0-7.0	26	9	288-1200-ND	1.80	1.62	1.26	1555.N0500.07
	3/4-NPT	11.0-18.0	35	11	288-1201-ND	2.63	2.37	1.84	1555.N0750.18
	3/4-NPT	6.5-14.0	35	11	288-1202-ND	2.85	2.57	2.00	1555.N0750.14
	1-NPT	17.0-22.0	36	15	288-1203-ND	4.03	3.63	2.82	1555.N1000.22

Amphenol®

Cord Grips

Aluminum Body and Compression Nut with Washer and Single Hole Oil-Resistant Grommet

This small body connector is ideal for internal uses, as well as conduit hub and panelboard mounting into threaded bodies or with locknuts. Complete units listed require no other parts except cable. Suitable for use in hazardous locations per National Electric Code Class 1, Div.2; Class II, Div. 1 & 2; Class III, Div. 1 & 2. UL listed File No. E53509 and Certified File No. LR-64107.

90° Elbow Body

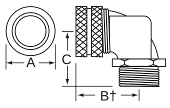

45° Elbow Body

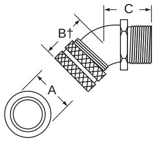

Conduit Hub Size - Inch	Panel Hole Size - Inch	Cord Diameter Range	Dimensions - Inches A	B	C	Digi-Key Part No.	Price Each 1	10	50	Amphenol Part No.
90° Elbow Body, Male Thread										
1/2	7/8 NPT	.375-.500	1.13	1.88†	1.44	DB-990-ND	13.23	9.26	6.88	DB-990
1/2	7/8 NPT	.500-.625*	1.13	1.88†	1.44	DB-1090-ND	13.23	9.26	6.88	DB-1090
45° Elbow Body, Male Thread										
1/2	7/8 NPT	.375-.500	1.13	1.31†	1.31	DB-945-ND	17.29	11.29	9.47	DB-945
1/2	7/8 NPT	.500-.625	1.13	1.31†	1.31	DB-1045-ND	17.29	11.29	9.47	DB-1045

* Maximum cord size will not pass through body without removing outer jacket.
† With nut snug, grommet not compressed.

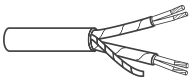

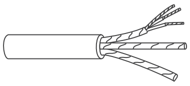

Instrumentation Control Cable

COLOR CODE CHART NO. 1

No.	Color	No.	Color
1	Black	4	Green
2	Red	5	Brown
3	White	6	Blue

COLOR CODE CHART NO. 2

No.	Color	No.	Color
1	Black, Red	2	Green, White

COLOR CODE CHART NO. 3

No.	Color	No.	Color
1	Black, Red	4	Black, Blue
2	Black, White	5	Black, Yellow
3	Black, Green	6	Black, Brown

COLOR CODE CHART NO. 4

No.	Color	No.	Color
1	Black	3	Brown
2	Red	4	Blue

Notes:

1. Designed to Meet UL 910 Flame Test
2. CSA PCC (CSA: 60°C)
3. Passes UL 70,000 BTU Vertical Tray Flame Test
4. Passes CSA FT4 Flame Test
5. California State Fire Marshal
6. NEC CL3R (*A. Capacitance between conductors B. Cap. between 1 conductor & other conductors connected to shield)*
7. NEC Article 725 Power-Limited Tray Cable (UL: 105°C, 300V)
8. NEC Article 800 Type CM
9. UL Style 2835 (UL:60°C, 30V)
10. NEC Article 800 Type CM
11. UL Style 2919 (UL: 80°C, 30V)
12. Passes CSA FT1 Flame Test
13. UL Type FPLR (UL: 60°C, 300V)
14. NEC Article 760
15. Passes UL 1666 Flame Test
16. NEC Article 725 Type CL3R (UL: 75°C, 150V)
17. NEC Article 800 Type CMR (UL: 75°C, 300V)
18. UL Type FPLP (UL: 60°C, 300V)
19. NEC Article 725 Type CL3P (UL: 60°C, 150V)
20. NEC Article 800 Type CMP (UL: 60°C, 300V)
21. UL Style 2464 (UL:80°C, 300V)

Communications and Control Cable C0561

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33
- Twisted Pairs

Insulation:
- Premium grade color-coded PVC
- Color code: each pair black and red numbered at one inch intervals

Shield:
- 100% Flexfoil aluminum/polyester, 25% overlap, foil facing out
- Stranded tinned copper drain wire

Jacket:
- PVC, gray
- Temperature Range: -20°C ~ 105°C

Computer Cable C6047, C6048

Conductor:
- Fully annealed stranded tinned copper per ASTM B-33
- Twisted Pairs

Insulation:
- Premium grade color-coded polyethylene

Shield:
- Individually shielded pairs
- 100% Flexfoil aluminum/polyester, 25% overlap, foil facing in
- Stranded tinned copper drain wire each pair

Jacket:
- PVC, gray
- Temperature Range: -20°C ~ 80°C

Fire Alarm Cable

Conductor:
- Fully annealed solid bare copper per ASTM B-33

Insulation:
- Premium grade color-coded S-R PVC

Shield:
- Overall polyester supported aluminum foil, plus a stranded tinned copper drain wire to facilitate grounding

Jacket:
- Premium grade, Red PVC
- Suitable for use from -20°C ~ 60°C
- Round constructions have sequential footage markings to facilitate installation
- Includes ripcord on round constructions

Riser Sound and Security Cable

Conductor:
- Stranded bare copper to ASTM B-3, B-8 and B-286

Insulation:
- Premium grade color-coded S-R PVC (E2202S Series: Premium grade color-coded Flexguard)

Shield:
- Overall polyester supported aluminum foil, plus a stranded tinned copper drain wire to facilitate grounding

Jacket:
- Premium grade, Gray PVC (E2202S: Premium grade Natural Flexguard)
- Sequential footage markings to facilitate installation
- Suitable for use from -20°C ~ 75°C (E2202S: 0°C ~ 60°C)
- Includes ripcord

No. of Pairs	Color Chart	Cond. Size (AWG)	Cond. Strand	Nominal Insulation Thickness Inch (mm)	Nominal Jacket Thickness Inch (mm)	Suggested Working Voltage	Nominal O.D. Inch (mm)	Nominal Cap. pF/FT (See Notes A /B)		Notes	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll			General Cable Part No.
												100 ft.	500 ft.	1,000 ft.	
NON-PLENUM															
Shielded - Communication and Control Cable; Computer Cable															
2	2	22	7/30	0.008 (0.20)	0.020 (0.51)	300V	0.165 (4.19)	35.0	63.0	2,3,4,8,9	C1352-X-ND	48.48	112.86	212.43	C1352
3	3	22	7/30	0.011 (0.28)	0.032 (0.81)	30V	0.292 (7.42)	24.4	43.9	2,3,10,11,12	C6040-X-ND	82.02	203.78	394.80	C6040
3	Black/Red	18	16/30	0.015 (0.38)	0.053 (1.35)	300V	0.403 (10.24)	33.5	60.3	2,3,4,7,21	C0561-1000-ND	—	—	615.88	C0561
3	3	18	16/30	0.016 (0.41)	0.032 (0.81)	30V	0.395 (9.75)	25.7	46.2	2,3,8,11,12	C6047-1000-ND	—	—	617.76	C6047
6	3	18	16/30	0.016 (0.41)	0.048 (1.19)	30V	0.556 (14.07)	25.7	46.2	2,3,8,11,12	C6048-1000-ND	—	—	1245.68	C6048

No. of Cond.	Color Chart	Cond. Size (AWG)	Cond. Strand	Nominal Insulation Thickness Inch (mm)	Nominal Jacket Thickness Inch (mm)	Suggested Working Voltage	Nominal O.D. Inch (mm)	Nominal Cap. pF/FT	Notes	Digi-Key Part No.	Price Per Roll 1,000 ft.	General Cable Part No.
NON-PLENUM												
Unshielded - Fire Alarm Cable												
2	4	14	Solid	0.013 (0.33)	—	300V	0.210 (5.33)	Standard	5,13,14,15	E1522S-1000-ND	278.91	E1522S
4	4	14	Solid	0.013 (0.33)	—	300V	0.248 (6.30)	Standard	5,13,14,15	E1524S-1000-ND	529.62	E1524S
Unshielded - Riser Sound and Security Cable												
2	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.122 (3.10)	—	5,16,17	E1002S-1000-ND	71.77	E1002S.30.10
4	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.141 (3.58)	—	5,16,17	E1004S-1000-ND	127.35	E1004S.30.10
6	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.164 (4.17)	—	5,16,17	E1006S-1000-ND	174.90	E1006S.30.10
2	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.156 (3.96)	—	16,17	E1032S-1000-ND	126.89	E1032S
4	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.187 (4.75)	—	16,17	E1034S-1000-ND	224.06	E1034S
2	1	16	19/.0117	0.009 (0.23)	0.015 (0.38)	300V	0.178 (4.52)	—	5,16,17	E1042S-500-ND*	97.38	E1042S.18.10
2	1	16	19/.0117	0.010 (0.25)	0.015 (0.38)	300V	0.178 (4.52)	—	5,16,17	E1042S-1000-ND	183.28	E1042S
4	1	16	19/.0117	0.010 (0.25)	0.015 (0.38)	300V	0.209 (5.31)	—	16,17	E1044S-1000-ND	343.36	E1044S
2	1	14	19/.0147	0.013 (0.33)	0.015 (0.38)	300V	0.223 (5.66)	—	6,16,17	E1052S-1000-ND	262.74	E1052S
2	1	12	19/.0185	0.009 (0.23)	0.015 (0.38)	300V	0.260 (6.60)	—	6,16,17	E1062S-1000-ND	399.76	E1062S
Shielded - Fire Alarm Cable												
2	4	14	Solid	0.013 (0.33)	0.015 (0.38)	300V	0.218 (5.54)	Standard	5,13,14,15	E2532S-1000-ND	337.82	E2532S
Shielded - Riser Sound and Security Cable												
2	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.127 (3.23)	—	16,17	E2002S-1000-ND	108.41	E2002S
4	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.146 (3.71)	—	16,17	E2004S-1000-ND	162.02	E2004S
6	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.173 (4.39)	—	5,16,17	E2006S-1000-ND	213.18	E2006S.30.10
2	1	20	7/28	0.008 (0.20)	0.015 (0.38)	300V	0.139 (3.53)	—	5,16,17	E2022S-1000-ND	134.56	E2022S.30.10
2	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.164 (4.17)	—	16,17	E2032S-1000-ND	168.74	E2032S
3	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.173 (4.39)	—	16,17	E2033S-1000-ND	228.18	E2033S
4	1	18	7/26	0.009 (0.23)	0.015 (0.38)	300V	0.191 (4.85)	—	16,17	E2034S-1000-ND	289.39	E2034S
2	1	16	19/.0117	0.010 (0.25)	0.015 (0.38)	300V	0.189 (4.80)	—	16,17	E2042S-1000-ND	255.17	E2042S
2	1	14	19/.0147	0.013 (0.33)	0.015 (0.38)	300V	0.245 (6.22)	—	16,17	E2052S-1000-ND	336.91	E2052S
PLENUM												
Shielded - Fire Alarm Cable												
2	4	14	Solid	0.012 (0.30)	0.015 (0.38)	300V	0.218 (5.54)	Standard	5,14,18	E3622S-1000-ND	382.46	E3622S
Shielded - Riser Sound and Security Cable												
2	1	22	Solid	0.007 (0.18)	0.015 (0.38)	300V	0.108 (2.74)	—	1,5,19,20	E2100S-1000-ND	122.48	E2100S.30.86
2	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.120 (3.05)	—	1,5,19,20	E2102S-1000-ND	134.57	E2102S.30.86
3	1	22	7/30	0.008 (0.20)	0.015 (0.38)	300V	0.127 (3.23)	—	1,5,19,20	E2103S-1000-ND	173.95	E2103S.30.86
Shielded - Riser Sound and Security Cable												
2	2	18	7/26	0.008 (0.20)	0.015 (0.38)	300V	0.164 (4.17)	—	19,20	E2202S-1000-ND	206.45	E2202S
3	1	18	7/26	0.008 (0.20)	0.015 (0.38)	300V	0.168 (4.27)	—	1,5,19,20	E2203S-1000-ND	290.07	E2203S.30.86
4	1	18	7/26	0.008 (0.20)	0.015 (0.38)	300V	0.185 (4.70)	—	1,5,19,20	E2204S-1000-ND	355.80	E2204S.30.86

* This item comes in a 500 ft. roll.

General Cable **CAROL® BRAND**

Shielded Microphone Cable

Cond. Type 1

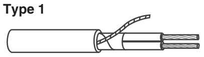

Cond. Type 2

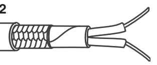

CONDUCTOR:

Type 1: Fully annealed stranded tinned copper/ ASTM B-33.
Type 2: Fully annealed stranded bare copper per ASTM B-33.

INSULATION:

Type 1: Premium grade color coded polypropylene.
Type 2: Premium grade color coded rubber.

COLOR CODES: See chart.

SHIELD:

Type 1: Conductive tape applied over the core; 100% Flexfoil aluminum/polyester 25% overlap, foil facing in; stranded tinned copper drain wire.
Type 2: 80% tinned copper braid.

JACKET:

Type 1: PVC, Black -20°C ~ 75°C, 200 voltage rating
Type 2: Black Rubber -20°C ~ 60°C, 300 voltage rating
Type 3: Carolprene, Black -20°C ~ 60°C, 300 voltage rating

FEATURES:

Note 1: Excellent shielding to reduce noise
Note 2: Precision engineered to transmit clear, noise-free signals
Note 3: Eliminates hum pick-up
Note 4: Resistant to oil, acid, sunlight, abrasion, and aging
Note 5: Extreme noise reflection
Note 6: Provides extra limpness
Note 7: Low impedance
Note 8: High impedance

COLOR CODE CHART NO. 1			
Conductor	Color	Conductor	Color
1	Black	2	Red

COLOR CODE CHART NO. 2			
Conductor	Color	Conductor	Color
1	White	2	Black

Cond. Type	Cond. Size (AWG.)	Cond. Strand	Insul. Type	Color Chart #	Shield Type	Jacket Type	Features Note No.	No. of Cond.	Nom. Jacket Thickness Inch (mm)	Nom. Insulation Thickness Inch (mm)	Nominal O.D. Inch (mm)	Nom. Cap. pF/ft. A/B	Digi-Key Part No.	(X = No. of Ft. Per Roll) Price Per Roll 100 ft.†	500 ft.#	1,000 ft.#	General Cable Part No.
1	24	19/36	1	1	1	1	1	2	0.020 (.51)	0.008 (.20)	0.135 (3.43)	30/58	C1228-X-ND	45.80	148.20	196.85	C1228
2	20	26/34	2	2	2	2	2, 3, 6, 8	1	0.035 (.89)	0.040 (1.02)	0.230 (5.84)	B = 42	C1300-X-ND	71.91	—	337.82	C1300
2	20	26/34	2	2	2	2	2, 3, 6, 7	2	0.035 (.89)	0.020 (.51)	0.270 (6.86)	B = 50	C1302-X-ND*	104.21	387.13	519.89	C1302
2	18	41/34	2	2	2	3	2, 3, 4, 5, 7	2	0.035 (.89)	0.020 (.51)	0.295 (7.49)	B = 61	C1202-X-ND*	115.91	435.00	585.84	C1202
2	16	65/34	2	2	2	3	2, 3, 4, 5, 7	2	0.035 (.89)	0.025 (.64)	0.335 (8.51)	B = 55	C1602-X-ND*	140.39	—	695.97	C1602

† Length tolerance is ±1% # Length tolerance is ±10% * High and low impedance cable. A = conductor to conductor. B = One conductor and other conductor connected to shield.

General Cable **CAROL® BRAND**

Coaxial Cable

Fig. 1

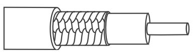

Fig. 2

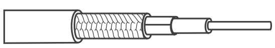

Fig. 3

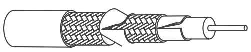

Fig. 4

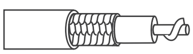

Fig. 5

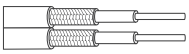

Fig. 6

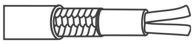

W303-X-ND IBM Eqv.: #7362211

Fig. 7

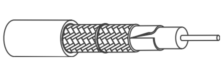

Fig. 8

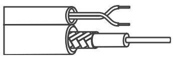

Fig.	RG Type	Conductor Size (AWG)	Jacket Type	Core O.D. Inch (mm)	Shield Type	Nominal O.D. Inch (mm)	Imped-ance (Ω)	Capacitance pF/FT (pF/M)	Digi-Key Part No	(X = No. of Ft. Per Roll) Price Per Roll 100 ft. (†, ◊)	500 ft. (#)	1000 ft. (#)	General Cable Part No.
RG-58													
1	58/U	20 (Solid BC)	Black PVC	0.116 (2.95)	95% TC Braid	0.195 (4.95)	50	30.00 (98.43)	W300-X-ND	44.06	141.07	186.70	C1166
	58/U	20 (19X.0071)(TC)	Black PVC	0.116 (2.95)	95% TC Braid	0.195 (4.95)	50	31.80 (104.34)	C1178-X-ND	39.23	—	209.33	C1178.21.01
	58/U Plenum	20 (19X32)(TC)	Flexguard/White	0.100 (2.54)	100% Flexfoil + 95% TC Braid	0.165 (4.19)	50	26.00 (85.31)	C3579-1000-ND	—	—	430.48	C3579.41.02
	58/U Plenum	19 (Solid BC)	Flexguard/White	0.102 (2.59)	95% TC Braid	0.161 (4.09)	50	25.00 (82.00)	C3519-X-ND	69.17	—	409.01	C3519.41.02
RG-59													
1	59/U Plenum	20 (Solid CCS)	Flexguard/Natural	0.145 (3.68)	95% BC Braid	0.201 (5.11)	75	16.50 (54.14)	C3500-X-ND	74.13	—	438.56	C3500
1	59/U	22 (Solid CCS)	Black PVC	0.146 (3.71)	95% BC Braid	0.242 (6.15)	73	20.50 (67.26)	W301-X-ND	39.42	—	—	C1104
1	59/U	22 (Solid CCS)	Black PVC	0.146 (3.71)	70% BC Braid	0.242 (6.15)	80	16.3 (53.48)	C1112-X-ND	38.17	83.35	—	C1112
2	59/U§	22 (Solid CCS)	Black PVC	0.144 (3.66)	100% Flexfoil + 40% Alum. Braid	0.231 (5.87)	80	16.00 (52.50)	C5770-X-ND	28.48	74.64	96.97	C5770.30.01
5	59/U Dual	23 (Solid CCS)	Black PVC	0.146 (3.71)	100% Flexfoil + 95% TC Braid	0.242x0.498 (6.15x12.65)	73	21.00 (68.90)	C8005-X-ND	—	266.24	515.84	C8005
1	59/U	20 (Solid BC)	Black PVC	0.146 (3.71)	95% BC Braid	0.234 (5.94)	71	16.20 (53.15)	C1142-X-ND	38.90	—	206.96	C1142.41.01
1	59/U	23 (Solid CCS)	Black PVC	0.146 (3.71)	95% BC Braid	0.242 (6.15)	73	21.00 (68.90)	C1106-X-ND	41.45	—	225.14	C1106.41.01
8	59/U w/Unshielded pair	20 (Solid BC), 18 (7x26) pair	Black PVC	0.144 (3.66)	95% BC Braid	0.238x0.440 (6.05x11.18)	71	16.20 (53.15)	C8028-1000-ND	—	—	338.71	C8028.41.01
RG-6													
3	6/U Quad Shield	18 (Solid CCS)	Black PVC	0.177 (4.50)	100% Flexfoil + (1) 60%+ (1)40% Alum. Braid	0.292 (7.42)	75	16.20 (53.15)	C5785-1000-ND	—	—	111.38	C5785
1	6/U Plenum	18 (Solid BC)	Flexguard/ Natural	0.170 (4.318)	100% Flexfoil + 95% TC Braid	0.233 (5.92)	75	16.00 (52.50)	C3521-X-ND	113.14	—	684.50	C3521
2	6/U‡	18 (Solid CCS)	Black PVC	0.177 (4.50)	100% Flexfoil + 60% Alum. Braid	0.263 (6.8)	75*√	16.20 (53.15)*√	C5775-X-ND	21.19	45.59	—	C5775
8	6/U w/Unshielded pair	18 (Solid BC), 18 (7x26) pair	Black PVC	0.177 (4.50)	100% Flexfoil + 95% TC Braid	0.270x0.493 (6.86x12.52)	75	16.20 (53.15)	C8029-1000-ND	—	—	402.48	C8029.41.01
2	6/U	18 (Solid CCS)	Black PVC	0.177 (4.50)	100% Flexfoil + 95% Alum. Braid	0.267 (6.78)	75	16.20 (53.15)	C5776-X-ND	30.87	—	149.59	C5776.41.01
	6/U	18 (Solid CCS)	Black PVC	0.177 (4.50)	100% Flexfoil + 61% TC Braid	0.260 (6.60)	75	16.20 (53.15)	C5777-X-ND	35.58	—	178.58	C5777.41.01
RG-11													
1	11/U	14 (Solid CCS)	Permaline/Black PE	0.285 (7.24)	97% BC Braid	0.405 (10.29)	75	16.20 (53.15)	C5025-1000-ND	—	—	509.59	C5025
Various Types													
1	8/U	13 (7X21)(BC)	Black PVC	0.285 (7.24)	95% BC Braid	0.405 (10.29)	52	29.50 (96.79)	C1154-X-ND	90.57	—	551.80	C1154.41.01
4	62/U	22 (Solid CCS)	Black PVC	0.146 (3.66)	95% BC Braid	0.242 (6.15)	93	13.60 (44.62)	W302-X-ND	39.48	112.15	211.10	C1164
1	62/U Plenum	22 (Solid CCS)	Flexguard/Natural	0.145 (3.56)	95% BC Braid	0.201 (5.11)	93	13.00 (42.65)	C3520-X-ND	81.89	—	492.03	C3520
1	174/U	26 (7X34)(CCS)	Black PVC	0.060 (1.52)	95% TC Braid	0.103 (2.62)	50	30.80 (101.05)	C1156-X-ND	28.81	—	139.46	C1156.21.01
1	213/U	13 (7X21)(BC)	Black PVC	0.285 (7.24)	95% BC Braid	0.405 (10.29)	50	30.80 (101.05)	C1176-X-ND	101.67	—	608.01	C1176.41.01
Twin Coaxial													
6	—	20(7x28)(1)TC + (1)BC	Black PVC	0.022 (0.56)	100% Flexfoil + 90% TC Braid	0.330 (8.38)	100	15.50 (50.86)	W303-X-ND	74.26	226.82	439.44	C8000
	—	20 (7x28)(TC)	Blue PVC	0.020 (0.51)	100% Flexfoil + 57% TC Braid	0.242 (6.15)	78	19.17 (62.90)	C8001-1000-ND	—	—	286.18	C8001.41.07
Direct Burial Coaxial Cable													
7	6/U Moisture Guard	18 (Solid CCS)	Permaline/Black, Orange PE	0.180 (4.57)	100% Flexfoil + 60% Alum. Braid with Water Block	0.270 (6.86)	75	16.20 (53.15)	C5804-1000-ND	—	—	121.74	C5804.41.01
7	11/U Moisture Guard	14 (Solid CCS)	Permaline/Black, Orange PE	0.280 (7.11)	100% Flexfoil + 60% Alum. Braid with Water Block	0.395 (10.03)	75	16.20 (53.15)	C5043-1000-ND	—	—	290.36	C5043.41.01

† Length tolerance is ±1% # Length tolerance is ±10% § NEC Type CL2-CATV UL Style 1354 ‡ NEC Type CL2-CATV
√ Recommended for CATV applications ◊ 100 ft. spools are not UL marked * 100% Sweep Tested @ Frequency Band: 0-400Mhz

General Cable CAROL® BRAND

Category 3 - UTP High Speed Data/LAN Type

Suitable for High Speed Data/LAN Transmission up to 16 Mbps. *10BASE-T *4Mbps Token Ring

UL Listed Type MPR/CMR (2133017)IBM Type 3, EIA/TIA 568 and TSB-36

IEEE 802.3 (10BASE-T), IEEE 802.5 (Token Ring), NEMA (Standard Cable)

- **Conductor:** 24 AWG solid bare annealed copper
- **Insulation:** Flame Retardant PVC
- **Jacket:** Tough, flame retardant PVC (2133017), Tough FLEXGUARD Compound (2131245)
- **Packaging:** 1000 ft PULL-PAC Carton

- **Color Code:** PR#1 = Blue/White - White/Blue,
  PR#2 = Orange/White - White/Orange,
  PR#3 = Green/White - White/Green,
  PR#4 = Brown/White - White/Brown
- **Pairing:** Two twists per foot (min)

No. of Pairs	Cond. Size (AWG)	Jacket Color	O.D. In. (mm)	DC Resistance (max) Ohms/1000 ft @ 20C	Mutual Capacitance (nom) pF/ft @ 1kHz	Characteristics Impedance Ω @ 772kHz (min-max)	Characteristics Impedance Ω @ 1-16MHz (min-max)	Attenuation dB/1000ft (max) @ 772kHz	Near-End Crosstalk dB(min) @ 772kHz	Attenuation db/1000ft (max) @16MHz	Near-End Crosstalk dB(min) @ 16MHz	Digi-Key Part No.	Price Per Roll 1,000 ft.#	Mfg. Part No.
High Speed Data/LAN Type MPR/CMR														
4	24	Gray	.16 (4.06)	28.4	18	87-117	85-115	6.8	43.0	40.0	23.0	C2133017-1000-ND	95.22	2133017

# Length tolerance is ±10%

Plenum and Riser Rated Category 5e - UTP High Speed Data/LAN Type

4 Pair, 24 AWG

Excellent attenuation and crosstalk characteristics for extended distance runs in 4/16 Mbps LAN's; varying short pair lay reduces the effect of EMI *10BASE-T *4/16 Mbps Token Ring *100 Mbps TPDDI

- **Conductor:** 24 AWG solid bare annealed copper
- **Pairing:** Varying short pair lay

- **DC Resistance (max) Ω/1000ft @1kHz:** 27.0
- **Mutual Capacitance (nom) pF/ft @1kHz:** 14
- **Characteristics Impedance Ω @772kHz (min-max):** 87-117
- **Characteristics Impedance Ω @1-100MHz (min-max):** 85-115
- **Attenuation dB/1000ft (max) @772kHz:** 5.5
- **Near-End Crosstalk dB (min) @ 772kHz:** 64
- **Attenuation dB/1000ft (max) @16MHz:** 67
- **Near-End Crosstalk dB (min) @ 100MHz:** 32

- **Approvals:**
  EIA/TIA TSB-36 (Category 5), IEEE 802.3 (Token Ring), NEMA (Extended Frequency), Proposed ANSIX3T9.5 TP-PMD
- **Color Code:** PR#1 = Blue/White - White/Blue,
  PR#2 = Orange/White - White/Orange,
  PR#3 = Green/White - White/Green,
  PR#4 = Brown/White - White/Brown

Jacket Color	O.D. Inch (mm)	Insulation	UL Listed Type	Type	Packaging	Digi-Key Part No.	Price Per Roll 1,000 ft.#	Mfg. Part No.
Gray PVC	0.20 (5.08)	Polyolefin	MPR/CMR	Riser	PULL-PAC	C5133200E-1000-ND	125.40	5133200E
Gray PVC	0.20 (5.08)	Polyolefin	MPR/CMR	Riser	SPOOL-PAC	C5133329E-1000-ND	150.20	5133329E
Blue Flexguard	0.16 (4.06)	FEP	MPP/CMP	Plenum	SPOOL-PAC	C5131431E-1000-ND	205.37	5131431E
Blue Flexguard	0.18 (4.57)	FEP	MPP/CMP	Plenum	PULL-PAC	C5131278E-1000-ND	332.64	5131278E

# Length tolerance is ±10%

Telephone and Datacom Category Cables

• **Conductor:** Solid, bare, copper conductors to ASTM B-3 • **Insulation:** Premium grade, color coded PVC • **Jacket:** Premium grade PVC, Suitable for use from -20°C ~ 60°C, Suggested voltage rating of 300 volts • **Compliance:** UL Listed Type CMR/CMX-Indoor/Outdoor, NEC Article 800 Type CMR (UL; 60°C,300V) • **Packaging:** 1000 ft EZ OUT Carton

No. of Cond.	Cond. Size (AWG)	Jacket Color	Cond. Strand	Nom. Insulation Thickness Inches (mm)	Nom. Jacket Thickness Inches (mm)	Nom. O.D. Inches (mm)	Digi-Key Part No.	Price Per Roll 100 ft.†	Price Per Roll 1,000 ft.#	Mfg. Part No.
4	22	Beige	Solid	.006 (.15)	.015 (.38)	.129 (3.28)	C4412-X-ND	29.51	103.33	C4412

† Length tolerance is ± 1% # Length tolerance is ± 10%

Plenum Cable Unshielded

Power limited remote control signal cable.

Features: Installation in air plenums without the use of conduit. Outstanding oil and moisture resistance.

Industry Approvals: UL listed for low smoke and fire characteristics per NEC Code Article 725. UL Subject 910, CL2P.

No. of Cond.	Cond. Size (AWG)	Cond. Strand.	Nominal Jacket Thickness	Nominal O.D. Inch (mm)	Digi-Key Part No.	Pricing 1,000 ft.#	Mfg. Series No.
2	22	7 / 30	.010" (.25mm)	.089 (2.26)	C3105-1000-ND	154.26	C3105
4	22	7 / 30	.010" (.25mm)	.121 (3.07)	C3106-1000-ND	216.37	C3106
2	18	7 / 26	.010" (.25mm)	.123 (3.12)	C3102-1000-ND	233.12	C3102
4	18	7 / 26	.010" (.25mm)	.163 (4.14)	C3103-1000-ND	384.51	C3103
2	18	7 / 26	.010" (.25mm)	.120 (3.05)	C9522-1000-ND	257.40	C9522

# Length tolerance is ±10%

Plenum Cable Shielded

Fig. 1

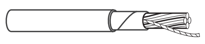

Fig. 2

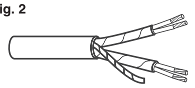

Fig. 3

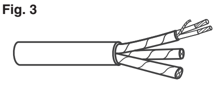

Color Code Chart for
C3156-1000-ND and C3157-1000-ND

No. of Pairs	Color
1	Black & Red
2	Black & White
3	Black & Green

Applications:

- Power limited circuits
- Communication and signal applications
- Cash registers
- Computer systems interfaces
- Intercom systems
- Burglar alarms
- Remote controls
- Low voltage applications.

Features: Installation in air plenums without the use of conduit.

Industry Approvals: UL listed for low smoke and fire characteristics per NEC Code Article 725 CL2P.

Fig.	No. of Cond.	No. of Pairs	Cond. Size (AWG)	Cond. Strand.	Nom. Jacket Thickness Inch (mm)	Nom. O.D. In. (mm)	Nom. Cap. pF/Ft A/B	Digi-Key Part No.	Pricing 1,000 ft.#	Mfg. Series No.
Multi-Conductor, Foil Shielded										
1	4	—	22	7 / 30	.010 (.25)	.130 (3.30)	45/81	C3155-1000-ND	199.82	C3155
1	4	—	18	7 / 26	.010 (.25)	.178 (4.52)	47/85	C3163-1000-ND	437.41	C3163
1	2	—	16	19 / .0117	.010 (.25)	.181 (4.60)	62/112	C3169-1000-ND	365.27	C3169
Multi-Paired, Individually Shielded										
2	—	2	22	7 / 30	.010 (.25)	.147 (3.73)	31/56	C3156-1000-ND	427.74	C3156
3	—	3	22	7 / 30	.010 (.25)	.184 (4.67)	31/56	C3157-1000-ND	614.42	C3157

# Length tolerance is ±10% A = Conductor to conductor B = One conductor and other conductors connected to shield

Multiconductor Cable

Multiconductor Unshielded

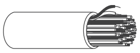

Description: 22 AWG (0.35mm^2), 7/30 (7 x 0.25mm), Insulation thickness: 0.010" (0.25mm)

Characteristics: • Temp. Range: -20°C ~ 80°C (AWM), 75°C (CL2) • Voltage Rating: 150 Volt (AWM, CL2) • Conductor: Stranded tinned copper • Insulation: Color coded PVC • Tape: Clear polyester wrap • Jacket: Gray PVC

Specifications: • Flammability: Passes UL Subject 13 vertical tray flame test

Color Code Chart					
Cond. No.	Color	Cond. No.	Color	Cond. No.	Color
1	Black	6	Blue	11	Pink
2	Red	7	Brown	12	Tan
3	White	8	Yellow	13	Red/Green
4	Green	9	Violet	14	Red/Yellow
5	Orange	10	Gray	15	Red/Black

No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
Multiconductor Unshielded Cable							
2	.032 (.81)	.16 (4.06)	A120-X-ND	36.00	116.10	192.38	1172C-X
3	.032 (.81)	.17 (4.32)	A121-X-ND	47.14	155.93	257.51	1173C-X
4	.032 (.81)	.19 (4.83)	A122-X-ND	52.20	177.08	323.21	1174C-X
5	.032 (.81)	.20 (5.08)	A123-X-ND	63.11	225.90	407.48	1175C-X
6	.032 (.81)	.21 (5.33)	A124-X-ND	69.19	262.46	495.56	1176C-X
7	.032 (.81)	.21 (5.33)	A125-X-ND	75.38	278.10	564.19	1177C-X
8	.032 (.81)	.22 (5.59)	A126-X-ND	90.00	319.39	639.90	1178C-X
9	.032 (.81)	.25 (6.35)	A127-X-ND	90.00	343.01	658.80	1179C-X
10	.032 (.81)	.26 (6.60)	A128-X-ND	105.08	390.04	772.43	1180C-X
12	.032 (.81)	.28 (7.11)	A129-X-ND	153.34	574.99	1088.55	1181C-X
15	.032 (.81)	.30 (7.62)	A130-X-ND	211.39	832.50	1306.13	1181/15C-X

Multipair Individually Shielded

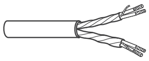

Twisted Pair

Description: • CL2 rated, 75°C, 150V • 22 AWG (0.36 mm^2), 7/30 (7 x 0.25mm), Insulation thickness: 0.008" (0.20mm)

Characteristics: • Temperature Range: -20°C ~ 105°C • Voltage Rating: 400 Volt • Conductor: Stranded tinned copper • Insulation: Polyproylene (PP) • Shield: Aluminum/polyester tape • Drain Wire: Stranded tinned copper No. 24 • Gray PVC jacket

Color Code	
Pair No.	Color
1	Red/Black
2	Green/White

No. of Pair	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
Multipair Individually Shielded Cable							
2	.019 (.48)	.16 (4.06)	A131-X-ND	43.52	192.00	286.40	2466C-X

Individually Foil Shielded Multi Pair

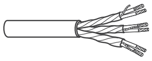

Description: 22 AWG (0.35mm^2), 7/30 (7 x 0.25mm), Insulation thickness 0.010" (0.25mm)

Characteristics: • Temperature Range: -20°C ~ 60°C (AWM, CL2) • Voltage Rating: 300 Volts (150 Volts - CL2) • Conductor: Stranded tinned copper • Insulation: Color-coded polypropylene (PP) • Shield: (Individual pairs) Aluminum/polyester tape, foil facing inward • Drain Wire: 22 AWG stranded tinned copper • Jacket: PVC, gray

Specifications: • Flammability: Passes UL Subject 13 vertical tray flame test

Color Code Chart					
Pair No.	Color	Pair No.	Color	Pair No.	Color
1	Black/Red	10	Red/Blue	19	White/Blue
2	Black/White	11	Red/Yellow	20	White/Brown
3	Black/Green	12	Red/Brown	21	White/Orange
4	Black/Blue	13	Red/Orange	22	White/Yellow
5	Black/Brown	14	Green/Blue	23	Blue/Brown
6	Black/Yellow	15	Green/White	24	Blue/Orange
7	Black/Orange	16	Green/Brown	25	Blue/Yellow
8	Red/Green	17	Green/Orange	26	Brown/Orange
9	Red/White	18	Green/Yellow	27	Brown/Yellow

No. of Pair	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
Individually Foil Shielded Multipair Cable							
3	.045 (1.14)	.31 (7.87)	A132-X-ND	76.72	306.64	548.56	6010C-X
6	.045 (1.14)	.39 (9.91)	A133-X-ND	145.84	576.24	1096.32	6012C-X
9	.045 (1.14)	.46 (11.68)	A134-X-ND	377.60	1389.12	2272.88	6014C-X
11	.045 (1.14)	.48 (12.19)	A135-X-ND	430.56	—	—	6016C-X
12	.045 (1.14)	.48 (12.19)	A136-X-ND	569.84	1975.92	3089.12	6017C-X
15	.060 (1.52)	.56 (14.22)	A137-X-ND	591.52	2165.20	—	6018C-X
17	.060 (1.52)	.61 (15.49)	A138-X-ND	801.20	3597.04	—	6019C-X
19	.060 (1.52)	.63 (16.00)	A139-X-ND	789.52	2883.20	—	6020C-X
27	.060 (1.52)	.68 (17.27)	A140-X-ND	1445.76	—	—	6022C-X

Multiconductor Foil / Braid Shielded

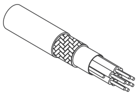

Description: 28 AWG (0.089mm^2), 7/36 (7 x 0.13mm), Insulation thickness: 0.010" (0.25mm)

Characteristics: • Operating Temperature Range: -20°C ~ 80°C (AWM), +75°C (CL2) • Voltage Rating: 300 volts (AWM), 150 volts (CL2) • Conductor: Stranded tinned copper • Insulation: Color-coded semi-rigid PVC • Shield: Aluminum/polyester/aluminum plus overall braid of tinned copper • Drain Wire: 28 AWG 7/36 tinned copper • Jacket: PVC, chrome gray

Specifications: • UL Type CL2, AWM 2464 • CSA PCC FT4 • Flammability: Passes UL vertical tray flame test

Color Code Chart					
Cond. No.	Color	Cond. No.	Color	Cond. No.	Color
1	Black	10	Gray	19	White/Yellow
2	Red	11	Pink	20	White/Blue
3	White	12	Tan	21	White/Brown
4	Green	13	Red/Green	22	White/Orange
5	Orange	14	Red/Yellow	23	White/Gray
6	Blue	15	Red/Black	24	White/Violet
7	Brown	16	White/Black	25	White/Black/Red
8	Yellow	17	White/Red		
9	Violet	18	White/Green		

No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
Multiconductor Foil/Braid Shielded Cable						
6	.035 (.89)	.19 (5.0)	A3466C-X-ND	228.38	1069.04	3466C-X
7	.035 (.89)	.19 (5.0)	A3467C-X-ND	250.43	1173.12	3467C-X
15	.035 (.89)	.26 (6.6)	A3470/15C-X-ND	448.76	2103.52	3470/15C-X
25	.035 (.89)	.30 (7.7)	A3470/25C-X-ND	842.51	1948.88	3470/25C-X

Multiconductor Braid Shielded

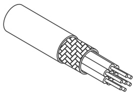

Description: 28 AWG (0.09mm^2), 7/36 (7 x 0.13mm), Insulation thickness: 0.010" (0.25mm) PVC - Type B

Characteristics: • Operating Temp. Range: -55°C ~ 105°C • Voltage Rating: 600 Volt • Conductor: Stranded tinned copper • Shield: Braided tinned copper (90% coverage) • Insulation: Color-coded PVC • Jacket: PVC, gray

Specifications: • MIL-W-16878D Type B

Color Code					
Cond. No.	Color	Cond. No.	Color	Cond. No.	Color
1	Black	6	Blue	11	Blue/Black
2	White	7	White/Black	12	Black/White
3	Red	8	Red/Black	13	Red/White
4	Green	9	Green/Black	14	Green/White
5	Orange	10	Orange/Black	15	Blue/White

No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
Multiconductor Braid Shielded Cable						
2	.012 (.30)	.12 (3.1)	A3302-X-ND	307.91	1450.40	3302-X
3	.012 (.30)	.13 (3.3)	A3303-X-ND	431.44	1937.12	3303-X
4	.012 (.30)	.14 (3.5)	A3304-X-ND	526.28	2362.64	3304-X
6	.015 (.38)	.17 (4.3)	A3306-X-ND	707.40	3178.72	3306-X
8	.015 (.38)	.17 (4.4)	A3308-X-ND	804.94	3618.96	3308-X
15	.020 (.50)	.23 (5.8)	A3315-X-ND	1366.31	6441.84	3315-X

Multiconductor Braid Shielded

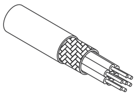

Description: Insulation thickness: 0.010" (0.25mm)-PVC, 0.003" (0.08mm) Nylon-Type B/N

Characteristics: • Operating Temperature Range: -55°C ~ 105°C • Voltage Rating: 600 volts • Conductor: Stranded tinned copper • Shield: Braided tinned copper (90% coverage) • Insulation: Color-coded PVC • Jacket: PVC, gray

Specifications: • MIL-W-16878D Type B/N

Color Code	
Cond. No.	Color
1	White
2	Black
3	Red
4	Green

No. of Cond.	Jacket Conductor AWG	Strand	Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price Per Roll 100 ft.	1,000 ft.	Alpha Part No.
Multiconductor Braid Shielded Cable								
3	24	19/36	.016 (0.41)	.16 (4.0)	A3212-X-ND	208.13	892.64	3212-X
4	24	19/36	.017 (0.43)	.18 (4.6)	A3213-X-ND	248.51	1033.04	3213-X
2	22	19/34	.016 (0.41)	.18 (4.6)	A3221-X-ND	134.44	562.00	3221-X
3	22	19.34	.017 (0.43)	.18 (4.6)	A3222-X-ND	164.81	701.52	3222-X
4	22	19/34	.019 (0.48)	.20 (5.1)	A3223-X-ND	190.13	810.48	3223-X
2	20	19/32	.019 (0.48)	.19 (4.8)	A3231-X-ND	153.34	667.44	3231-X
3	20	19/32	.019 (0.48)	.21 (5.3)	A3232-X-ND	191.48	810.48	3232-X
4	20	19/32	.021 (0.53)	.23 (5.9)	A3233-X-ND	234.79	994.40	3233-X

Multiconductor Cable — XTRA-Guard® 1

Operating Temperature: -20°C ~ 80°C - AWM; -20°C ~ 75°C - CM
Voltage Rating: 300 Volt
Jacket Color: Gray
Description: • Conductor: Stranded tinned copper • Insulation: Color-coded premium PVC • **SUPRA**SHIELD: Aluminum/Polyester/Aluminum Foil with stranded tinned copper drain wire equal in size to insulated conductors of cable plus 70% overall braid of tinned copper • Nylon rip cord for ease of jacket stripping • Jacket: Premium PVC • Insulation Thickness: 22 AWG: 0.010: (0.25mm); 20AWG, 18AWG and 16 AWG: 0.017" (0.43mm)
Specifications: • UL Type CM, AWM Style 2464 • CSA PCC FT4 • Passes UL VW-1 Flame Test • Passes CSA FT4 Flame Test

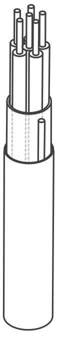

Color Code Chart A

Cond. No.	Base Color	1st Stripe	2nd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe
1	Black	—	—	21	White	Brown	—	41	White	Green	Red
2	Red	—	—	22	White	Orange	—	42	White	Green	Green
3	White	—	—	23	White	Gray	—	43	White	Green	Blue
4	Green	—	—	24	White	Violet	—	44	White	Green	Brown
5	Orange	—	—	25	White	Black	Red	45	White	Green	Violet
6	Blue	—	—	26	White	Black	Green	46	White	Blue	Black
7	Brown	—	—	27	White	Black	Yellow	47	White	Blue	Red
8	Yellow	—	—	28	White	Black	Blue	48	White	Blue	Green
9	Violet	—	—	29	White	Black	Brown	49	White	Blue	Blue
10	Gray	—	—	30	White	Black	Orange	50	White	Blue	Brown
11	Pink	—	—	31	White	Black	Gray	51	White	Blue	Violet
12	Tan	—	—	32	White	Black	Violet	52	White	Brown	Black
13	Red	Green	—	33	White	Black	Black	53	White	Brown	Red
14	Red	Yellow	—	34	White	Red	Black	54	White	Brown	Green
15	Red	Black	—	35	White	Red	Red	55	White	Brown	Blue
16	White	Black	—	36	White	Red	Green	56	White	Brown	Brown
17	White	Red	—	37	White	Red	Blue	57	White	Brown	Violet
18	White	Green	—	38	White	Red	Brown	58	White	Violet	Red
19	White	Yellow	—	39	White	Red	Violet	59	White	Violet	Green
20	White	Blue	—	40	White	Green	Black	60	White	Violet	Blue

Color Code Chart B

Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe	Cond. No.	Base Color	1st Stripe	2nd Stripe	3rd Stripe
1	Black	—	—	—	25	White	Black	Blue	—	49	White	Yellow	Gray	—
2	Brown	—	—	—	26	White	Black	Violet	—	50	White	Green	Blue	—
3	Red	—	—	—	27	White	Black	Gray	—	51	White	Green	Violet	—
4	Orange	—	—	—	28	White	Brown	Red	—	52	White	Green	Gray	—
5	Yellow	—	—	—	29	White	Brown	Orange	—	53	White	Blue	Violet	—
6	Green	—	—	—	30	White	Brown	Yellow	—	54	White	Blue	Gray	—
7	Blue	—	—	—	31	White	Brown	Green	—	55	White	Violet	Gray	—
8	Violet	—	—	—	32	White	Brown	Blue	—	56	White	Black	Brown	Red
9	Gray	—	—	—	33	White	Brown	Violet	—	57	White	Black	Brown	Orange
10	White	—	—	—	34	White	Brown	Gray	—	58	White	Black	Brown	Yellow
11	White	Black	—	—	35	White	Red	Orange	—	59	White	Black	Brown	Green
12	White	Brown	—	—	36	White	Red	Yellow	—	60	White	Black	Brown	Blue
13	White	Red	—	—	37	White	Red	Green	—	61	White	Black	Brown	Violet
14	White	Orange	—	—	38	White	Red	Blue	—	62	White	Black	Brown	Gray
15	White	Yellow	—	—	39	White	Red	Violet	—	63	White	Black	Red	Yellow
16	White	Green	—	—	40	White	Red	Gray	—	64	White	Black	Red	Green
17	White	Blue	—	—	41	White	Orange	Yellow	—	65	White	Black	Red	Blue
18	White	Violet	—	—	42	White	Orange	Green	—	66	White	Black	Red	Violet
19	White	Gray	—	—	43	White	Orange	Blue	—	67	White	Black	Red	Gray
20	White	Black	Brown	—	44	White	Orange	Violet	—	68	White	Black	Orange	Yellow
21	White	Black	Red	—	45	White	Orange	Gray	—	69	White	Black	Orange	Green
22	White	Black	Orange	—	46	White	Yellow	Green	—	70	White	Black	Orange	Blue
23	White	Black	Yellow	—	47	White	Yellow	Blue	—					
24	White	Black	Green	—	48	White	Yellow	Violet	—					

Color Chart	No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Price Per Roll (Roll Size = 100 ft.)		Alpha Part No.
					1 Roll	5 Rolls	
Multiconductor, Unshielded							
16 AWG (1.23mm^2) 19/0.0117 (19 x 0.29mm)							
A	2	.032 (.81)	.26 (6.5)	A5072C-100-ND	317.81	282.50	5072C SL005
	2	.032 (.81)	.26 (6.5)	A5072/1C-100-ND*	317.81	282.50	5072/1C SL005
	3	.032 (.81)	.29 (7.4)	A5073C-100-ND	429.19	381.50	5073C SL005
	3	.032 (.81)	.29 (7.4)	A5073/1C-100-ND*	429.19	381.50	5073/1C SL005
	4	.032 (.81)	.32 (8.1)	A5074C-100-ND	548.21	487.30	5074C SL005
	6	.032 (.81)	.37 (9.3)	A5076C-100-ND	762.30	677.60	5076C SL005
	8	.032 (.81)	.41 (10.4)	A5078C-100-ND	1002.38	891.00	5078C SL005
	10	.032 (.81)	.44 (11.3)	A5080C-100-ND	853.54	758.70	5080C SL005
	20	.053 (1.35)	.63 (15.9)	A5080/20C-100-ND	1501.88	1335.00	5080/20C SL005
	25	.053 (1.35)	.68 (17.3)	A5080/25C-100-ND	1863.23	1656.20	5080/25C SL005
	30	.053 (1.35)	.73 (18.6)	A5080/30C-100-ND	2211.86	1966.10	5080/30C SL005
	40	.083 (2.11)	.88 (22.5)	A5080/40C-100-ND	3172.84	2820.30	5080/40C SL005
	50	.083 (2.11)	.96 (24.5)	A5080/50C-100-ND	3928.95	3492.40	5080/50C SL005
18 AWG (0.81mm^2) 16/30 (16 x 0.25mm)							
A	2	.032 (.81)	.23 (5.8)	A5062C-100-ND	258.86	230.10	5062C SL005
	2	.032 (.81)	.23 (5.8)	A5062/1C-100-ND*	258.86	230.10	5062/1C SL005
	3	.032 (.81)	.24 (6.1)	A5063C-100-ND	317.81	282.50	5063C SL005
	3	.032 (.81)	.24 (6.1)	A5063/1C-100-ND*	317.81	282.50	5063/1C SL005
	4	.032 (.81)	.26 (6.6)	A5064C-100-ND	384.53	341.80	5064C SL005
	6	.032 (.81)	.31 (7.9)	A5066C-100-ND	581.40	516.80	5066C SL005
	8	.032 (.81).	33 (8.4)	A5068C-100-ND	701.89	623.90	5068C SL005
	10	.032 (.81)	.39 (9.8)	A5070C-100-ND	504.90	448.80	5070C SL005
	15	.032 (.81)	.45 (11.5)	A5070/15C-100-ND	768.94	683.50	5070/15C SL005
	30	.053(1.35)	.64 (16.3)	A5070/30C-100-ND	1545.41	1373.70	5070/30C SL005
	40	.053 (1.35)	.72 (18.2)	A5070/40C-100-ND	2119.50	1884.00	5070/40C SL005
	50	.053 (1.35)	.79 (20.0)	A5070/50C-100-ND	2621.81	2330.50	5070/50C SL005
	60	.083 (2.11)	.91 (23.1)	A5070/60C-100-ND	3244.61	2884.10	5070/60C SL005
20 AWG (0.56mm^2) 7/28 (7 x 0.32mm)							
A	2	.032 (.81)	.21 (5.3)	A5052C-100-ND	202.39	179.90	5052C SL005
	3	.032 (.81)	.23 (5.9)	A5053C-100-ND	231.64	205.90	5053C SL005
	4	.032(.81)	.25 (6.5)	A5054C-100-ND	283.73	252.20	5054C SL005
	6	.032 (.81)	.29(7.4)	A5056C-100-ND	392.74	349.10	5056C SL005
	8	.032(.81)	.32(8.2)	A5058C-100-ND	470.70	418.40	5058C SL005
	10	.032 (.81)	.35 (8.8)	A5060C-100-ND	547.20	486.40	5060C SL005
	15	.032 (.81)	.40 (10.3)	A5060/15C-100-ND	576.68	512.60	5060/15C SL005
	25	.032(.81)	.49 (12.6)	A5060/25C-100-ND	884.25	786.00	5060/25C SL005
	30	.032 (.81)	.53 (13.5)	A5060/30C-100-ND	1801.35	1601.20	5060/30C SL005
	40	.053 (1.35)	.64 (16.3)	A5060/40C-100-ND	1566.00	1392.00	5060/40C SL005
	50	.053 (1.35)	.70 (17.8)	A5060/50C-100-ND	1929.94	1715.50	5060/50C SL005
22 AWG (0.35mm^2) 7/30 (7 x 0.25mm)							
B	2	.032 (.81)	.17 (4.3)	A5002C-100-ND	174.04	154.70	5002C SL005
	3	.032 (.81)	.19 (4.8)	A5003C-100-ND	208.58	185.40	5003C SL005
	4	.032 (.81)	.20 (5.2)	A5004C-100-ND	259.99	231.10	5004C SL005
	6	.032 (.81)	.23 (5.8)	A5006C-100-ND	294.53	261.80	5006C SL005
	8	.032 (.81)	.25 (6.4)	A5008C-100-ND	383.06	340.50	5008C SL005
	10	.032 (.81)	.27 (6.9)	A5010C-100-ND	294.75	262.00	5010C SL005
	20	.032 (.81)	.35 (8.8)	A5010/20C-100-ND	589.50	524.00	5010/20C SL005
	25	.032 (.81)	.38 (9.6)	A5010/25C-100-ND	686.93	610.60	5010/25C SL005
	30	.032 (.81)	.41 (10.3)	A5010/30C-100-ND	850.95	756.40	5010/30C SL005
	40	.032 (.81)	.46 (11.6)	A5010/40C-100-ND	1981.91	1761.70	5010/40C SL005
	50	.032 (.81)	.50 (12.7)	A5010/50C-100-ND	2466.23	2192.20	5010/50C SL005
	60	.032 (.81)	.55 (13.7)	A5010/60C-100-ND	2947.84	2620.30	5010/60C SL005

* Conductors color coded per international standards: Brown, Blue, Green/Yellow

Color Chart	No. of Cond.	Jacket Thickness Inch (mm)	Diameter Thickness Inch (mm)	Digi-Key Part No.	Price Per Roll (Roll Size = 100 ft.)		Alpha Part No.
					1 Roll	5 Rolls	
Multiconductor, SUPRASHIELD							
16 AWG (1.23mm^2) 19/0.0117 (19 x 0.29mm)							
A	2	.032 (.81)	.28 (7.2)	A5172C-100-ND	637.31	566.50	5172C SL005
	2	.032 (.81)	.28 (7.2)	A5172/1C-100-ND*	637.31	566.50	5172/1C SL005
	3	.032 (.81)	.32 (8.0)	A5173C-100-ND	766.24	681.10	5173C SL005
	3	.032 (.81)	.32 (8.0)	A5173/1C-100-ND*	766.24	681.10	5173/1C SL005
	4	.032 (.81)	.34 (8.8)	A5174C-100-ND	873.00	776.00	5174C SL005
	6	.032 (.81)	.39 (10.0)	A5176C-100-ND	1200.83	1067.40	5176C SL005
	8	.032 (.81)	.43 (11.0)	A5178C-100-ND	1570.95	1396.40	5178C SL005
	10	.032 (.81)	.47 (11.9)	A5180C-100-ND	1061.10	943.20	5180C SL005
	25	.053 (1.35)	.71 (18.0)	A5180/25C-100-ND	2357.89	2095.90	5180/25C SL005
18 AWG (0.81mm^2) 16/30 (16 x 0.25mm)							
A	2	.032 (.81)	.25 (6.5)	A5162C-100-ND	505.24	449.10	5162C SL005
	2	.032 (.81)	.25 (6.5)	A5162/1C-100-ND*	505.24	449.10	5162/1C SL005
	3	.032 (.81)	.28 (7.2)	A5163C-100-ND	630.23	560.20	5163C SL005
	3	.032 (.81)	.28 (7.2)	A5163/1C-100-ND*	630.23	560.20	5163/1C SL005
	4	.032 (.81)	.31 (7.8)	A5164C-100-ND	687.26	610.90	5164C SL005
	6	.032 (.81)	.35 (8.9)	A5166C-100-ND	938.59	834.30	5166C SL005
	8	.032 (.81)	.38 (9.7)	A5168C-100-ND	1127.48	1002.20	5168C SL005
	10	.032 (.81)	.41 (10.5)	A5170C-100-ND	748.35	665.20	5170C SL005
	15	.032 (.81)	.48 (12.1)	A5170/15C-100-ND	1078.99	959.10	5170/15C SL005
	20	.032 (.81)	.53 (13.5)	A5170/20C-100-ND	1366.09	1214.30	5170/20C SL005
	25	.053 (1.35)	.62 (15.8)	A5170/25C-100-ND	1706.96	1517.30	5170/25C SL005
20 AWG (0.56mm^2) 7/28 (7 x 0.32mm)							
A	2	.032 (.81)	.23 (5.9)	A5152C-100-ND	292.80	274.50	5152C SL005
	3	.032 (.81)	.26 (6.6)	A5153C-100-ND	341.20	319.88	5153C SL005
	4	.032 (.81)	.28 (7.1)	A5154C-100-ND	377.28	353.70	5154C SL005
	6	.032(.81)	.32 (8.0)	A5156C-100-ND	506.40	474.75	5156C SL005
	8	.032 (.81)	.35 (8.8)	A5158C-100-ND	559.20	524.25	5158C SL005
	10	.032 (.81)	.37 (9.5)	A5160C-100-ND	692.64	649.35	5160C SL005
	15	.032 (.81)	.43 (10.9)	A5160/15C-100-ND	594.16	557.03	5160/15C SL005
	20	.032 (.81)	.48 (12.1)	A5160/20C-100-ND	1240.48	1162.95	5160/20C SL005
	30	.032 (.81)	.56 (14.2)	A5160/30C-100-ND	1062.56	996.15	5160/30C SL005
	40	.053 (1.35)	.67 (17.0)	A5160/40C-100-ND	1458.00	1366.88	5160/40C SL005
	50	.053 (1.35)	.73 (18.5)	A5160/50C-100-ND	1747.76	1638.53	5160/50C SL005
22 AWG (0.35mm^2) 7/30 (7 x 0.25mm)							
B	2	.032 (.81)	.20 (5.0)	A5102C-100-ND	277.28	259.95	5102C SL005
	3	.032 (.81)	.21 (5.4)	A5103C-100-ND	286.40	268.50	5103C SL005
	4	.032 (.81)	.22 (5.6)	A5104C-100-ND	309.44	290.10	5104C SL005
	6	.032 (.81)	.25 (6.4)	A5106C-100-ND	406.32	380.93	5106C SL005
	8	.032 (.81)	.27 (6.9)	A5108C-100-ND	444.32	416.55	5108C SL005
	10	.032 (.81)	.30 (7.6)	A5110C-100-ND	535.04	501.60	5110C SL005
	15	.032 (.81)	.33 (8.4)	A5110/15C-100-ND	759.68	712.20	5110/15C SL005
	20	.032 (.81)	.36 (9.2)	A5110/20C-100-ND	943.92	884.93	5110/20C SL005
	25	.032 (.81)	.39 (9.8)	A5110/25C-100-ND	1174.08	1100.70	5110/25C SL005
	30	.032 (.81)	.42 (10.9)	A5110/30C-100-ND	796.48	746.70	5110/30C SL005
	40	.032 (.81)	.47 (11.8)	A5110/40C-100-ND	1892.24	1773.98	5110/40C SL005
	60	.053 (1.35)	.60 (15.4)	A5110/60C-100-ND	1408.80	1320.75	5110/60C SL005
	70	.053 (1.35)	.63 (16.0)	A5110/70C-100-ND	3118.56	2923.65	5110/70C SL005

Hook-Up Wire

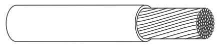

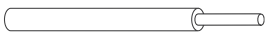

Description:
- Stranded or solid tinned copper conductor
- Color coded PVC insulation
- Flammability: Passes UL VW-1 flame test
- Wire is ordered per EIA-359-A color specifications which allows for some variation in shade

Operating Temperature:
300 Volt: -40°C ~ 90°C (CSA TR-64), -40°C ~ 80°C (UL AWM 1007)
600 Volt: -20°C ~ 105°C (UL1015, CSA TEW-105), -55°C ~ 105°C (MIL-W-16878E Type B) also (MIL-W-76B Type LW)

◊ HU-KIT-20-ND

Five 100-ft. spools, 22AWG, 300V stranded wire (black, white, red, green and blue)...................... **$175.60**

§ HU-KIT-40-ND

Five 100-ft. spools, 24AWG, 300V stranded wire (black, white, red, green and blue)...................... **$175.60**

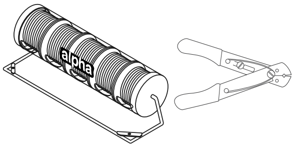

Each kit comes in a convenient wall dispenser and includes wire cutter.

Conductor Size (AWG)	Conductor Strand	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Part No.**	Digi-Key Part No.*	Price Per 1,000 ft.	Alpha Part No.**
Stranded — 300 Volt Rating									
30	7/38	.016 (.41)	.043 (1.09)	A3047☐-100-ND†	25.54	3047 ☐ ☐005	A3047☐-1000-ND†	125.66	3047 ☐☐001
28	7/36	.016 (.41)	.047 (1.19)	A3048☐-100-ND†	22.84	3048 ☐ ☐005	A3048☐-1000-ND†	113.96	3048 ☐☐001
26	7/34	.016 (.41)	.051 (1.30)	A3049☐-100-ND†	24.75	3049 ☐ ☐005	A3049☐-1000-ND†	118.01	3049 ☐☐001
24	7/32	.016 (.41)	.057 (1.45)	A2015☐-100-ND§	25.31	3050 ☐ ☐005	A2015☐-1000-ND	119.48	3050 ☐☐001
22	7/30	.016 (.41)	.065 (1.65)	A2016☐-100-ND◊	28.58	3051 ☐ ☐005	A2016☐-1000-ND	131.63	3051 ☐☐001
20	10/30	.016 (.41)	.071 (1.80)	A2040☐-100-ND	34.76	3053 ☐ ☐005	A2040☐-1000-ND	167.29	3053 ☐☐001
18	16/30	.016 (.41)	.080 (2.03)	A2064☐-100-ND	40.16	3055 ☐ ☐005	A2064☐-1000-ND	194.74	3055 ☐☐001
16	26/30	.016 (.41)	.095 (2.41)	A2065☐-100-ND	58.31	3057 ☐ ☐005	A2065☐-1000-ND	277.67	3057 ☐☐001
Solid — 300 Volt Rating									
24	Solid	.016 (.41)	.057 (1.45)	A3050☐-100-ND†	18.40	3050/1 ☐ ☐005	—	—	—
22	Solid	.016 (.41)	.065 (1.65)	A3051☐-100-ND†	20.90	3051/1 ☐ ☐005	—	—	—
20	Solid	.016 (.41)	.071 (1.80)	A3053☐-100-ND†	25.30	3053/1 ☐ ☐005	—	—	—
16	Solid	.016 (.41)	.095 (2.41)	A3057☐-100-ND†	41.40	3057/1 ☐ ☐005	—	—	—
Stranded — 600 Volt Rating, -20°C to 105°C									
24	7/32	.032 (.81)	.088 (2.24)	A3070☐-100-ND†	25.50	3070 ☐ ☐005	—	—	—
22	7/30	.032 (.81)	.094 (2.39)	A2101☐-100-ND	30.71	3071 ☐ ☐005	A2101☐-1000-ND	158.51	3071 ☐☐001
20	10/30	.032 (.81)	.100 (2.54)	A2102☐-100-ND	33.90	3073 ☐ ☐005	A2102☐-1000-ND	177.70	3073 ☐☐001
18	16/30	.032 (.81)	.112 (2.84)	A2103☐-100-ND	45.80	3075 ☐ ☐005	A2103☐-1000-ND	231.40	3075 ☐☐001
16	26/30	.032 (.81)	.124 (3.15)	A2104☐-100-ND	58.70	3077 ☐ ☐005	A2104☐-1000-ND	334.10	3077 ☐☐001
14	41/30	.032 (.81)	.134 (3.61)	A3079☐-100-ND†	78.70	3079 ☐ ☐005	—	—	—
12	65/30	.032 (.81)	.162 (3.93)	A3080☐-100-ND†	149.80	3080 ☐ ☐005	—	—	—
10	105/30	.032 (.81)	.180 (4.83)	A3081☐-100-ND†	234.70	3081 ☐ ☐005	—	—	—
Stranded — 600 Volt Rating, -55°C to 105°C (available in white, black or red only)									
28	7/36	.010 (.25)	.034 (.86)	A1852☐-100-ND	28.35	1852 ☐☐005	—	—	—
26	7/34	.010 (.25)	.038 (.96)	A1853☐-100-ND	28.35	1853 ☐☐005	—	—	—
24	7/32	.010 (.25)	.043 (1.09)	A1854☐-100-ND	28.69	1854 ☐☐005	—	—	—
24	19/36	.010 (.25)	.043 (1.09)	A185419☐-100-ND	46.24	1854/19 ☐☐005	—	—	—
22	7/30	.010 (.25)	.050 (1.27)	A1855☐-100-ND	30.94	1855 ☐☐005	—	—	—
22	19/34	.010 (.25)	.050 (1.27)	A185519☐-100-ND	60.64	1855/19 ☐☐005	—	—	—
20	7/28	.010 (.25)	.058 (1.47)	A1856☐-100-ND	38.59	1856 ☐☐005	—	—	—
20	19/32	.010 (.25)	.058 (1.47)	A185619☐-100-ND	59.85	1856/19 ☐☐005	—	—	—
18	19/30	.010 (.25)	.068 (1.73)	A185719☐-100-ND	87.08	1857/19 ☐☐005	—	—	—
16	19/29	.010 (.25)	.077 (1.96)	A185819☐-100-ND	57.71	1858/19 ☐☐005	—	—	—
14	19/27	.010 (.25)	.091 (2.31)	A185919☐-100-ND	116.44	1859/19 ☐☐005	—	—	—

* For ☐ in Digi-Key Part No. choose letter which represents color of your choice:
A = Orange **B** = Black **G** = Green **L** = Blue **N** = Brown
R = Red **S** = Gray **V** = Violet **W** = White **Y** = Yellow
E = Green/Yellow (Stranded wire only)

** For ☐☐ in Alpha Part No. choose letters which represents color of your choice:
OR = Orange **BK** = Black **GR** = Green **BL** = Blue **BR** = Brown
RD = Red **SL** = Gray **VI** = Violet **WH** = White **YL** = Yellow
GY = Green/Yellow (Stranded wire only) † Not available in green/yellow

Non-Fraying Expandable Braid Sleeving

Description: • Protection of Wire, Cable and Hoses • Wire bundling and Harnessing, Wire splicing • Frayless cuts without a hot knife • Use with automatic cutting machines • Not affected by most chemical environments and common solvents • Fungus Resistance: No growth • Withstands short-term exposure to 230°C

Operating Temperature: • -70°C ~ 125°C (MIL-I-631D) (GRP-120NF passes UL VW-1 Flame Test)
Color Description: • GRP-110NF: Black • GRP-120NF: Black with White Tracer
Nominal Wall Thickness, Inches (mm): • .027 (.69)

Nominal Wall Thickness Inch (mm)	Min. Supplied I.D. Inch (mm)	Max. Expanded I.D. Inch (mm)	Digi-Key Part No. (General Purpose)	Price Per 100ft.	Alpha Part No. (General Purpose)	Digi-Key Part No. (Flame Retardant)	Price Per 100 ft.	Alpha Part No. (Flame Retardant)
.027 (0.69)	.125 (3.18)	.250 (6.35)	AG110NF18B-100-ND	66.60	G110NF18 BK005	AG120NF18B-100-ND	96.86	G120NF18 BK005
.027 (0.69)	.156 (3.97)	.438 (11.11)	AG110NF14B-100-ND	91.35	G110NF14 BK005	AG120NF14B-100-ND	138.38	G120NF14 BK005
.027 (0.69)	.250 (6.35)	.750 (19.05)	AG110NF12B-100-ND	182.59	G110NF12 BK005	AG120NF12B-100-ND	246.15	G120NF12 BK005
.027 (0.69)	.625 (15.88)	1.000 (25.40)	AG110NF34B-100-ND	273.71	G110NF34 BK005	AG120NF34B-100-ND	367.76	G120NF34 BK005

High Voltage Test Lead Wire

• Stranded Tinned Copper • Insulation: Color-Coded Rubber • **Operating Temp.**: -30°C ~ 90°C

* For ☐ in Digi-Key Part No. choose letter which represents color of your choice:
B = Black **R**= Red

** For ☐☐ in Alpha Part No. choose letters which represents color of your choice:
BK = Black **RD** = Red

Conductor Size (AWG)	Voltage	Conductor Strand	Insulation Thickness Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Part No.**
20	1,500V	41/36	.040 (1.02)	.125 (3.18)	A1632☐-100-ND	79.43	1632 ☐ ☐005
18	5,000V	65/36	.045 (1.14)	.140 (3.56)	A1636☐-100-ND	101.81	1636 ☐ ☐005

Tinned Copper Flat Braid

Description: • Ground/Shielding Terminations • Used as a ground strap, provides excellent, low-resistant ground path • Ideal shielding material for short-run cables providing easy radial termination • Values shown for Current Carrying Capacity are for bare cable in free air at 30°C (86°F) and intended as a reference guide only. Actual values will depend on permissible temperature rise, permissible voltage drop and other conditions of service.

Specifications: • QQ-W-343E, ASTM-B-33

Nom. Flat Width Inch (mm)	Nom. Thickness Inch (mm)	Braid Construction AWG of Individual Ends			Approx. AWG Equivalent	Approx. Current Carrying Capacity (Amps)	Digi-Key Part No.	Price Per 100 ft.	Alpha Part No.
		AWG of Individual Ends	Carriers	Total No. of Individual Ends					
.188 (4.76)	.020 (.50)	36	24	120	15	25	A1230SV-100-ND*	93.94	1230 SV005
.250 (6.35)	.030 (.76)	36	24	168	14	32	A1231SV-100-ND*	127.01	1231 SV005
.375 (9.53)	.030 (.76)	36	48	288	12	46	A1232SV-100-ND	203.29	1232 SV005

* Meets QQ-B-575B

Teflon Hook-Up Wire

Certified Performance
High-Reliability
TFE Teflon® Insulation

Description:

- Stranded Silver-Plated Copper
- Color coded Extruded TFE Teflon® Insulation
- Flammability: Passes UL VW-1 Flame Test
- Not degraded by chemicals, ideal for harsh environments

Choose TFE Teflon® For:

- Resistance to All Chemicals
- High Temperature use up to 200°C
- Low Coefficient of Friction
- Outstanding Electrical Properties

Operating Temperature:

600 Volt: -60°C ~ 200°C (UL 105°C), (MIL-W-16878E Type E, UL AWM Style 1213)

Cond. Size (AWG)	Cond. Strand	Insulation Thick. Inch (mm)	Diameter Inch (mm)	Digi-Key Part No.*	Price Per 100 ft.	Alpha Part No. **
Stranded 600 Volt Rating						
30	7/38	.010 (.25)	.032 (.81)	A5851☐-100-ND	39.38	5851 ☐☐005
28	7/36	.010 (.25)	.036 (.91)	A5852☐-100-ND	39.94	5852 ☐☐005
26	7/34	.010 (.25)	.040 (1.02)	A5853☐-100-ND	43.09	5853 ☐☐005
24	19/36	.010 (.25)	.045 (1.14)	A5854☐-100-ND	56.93	5854 ☐☐005
24	7/32	.010 (.25)	.044 (1.12)	A58547☐-100-ND	46.35	5854/7 ☐☐005
22	19/34	.010 (.25)	.051 (1.30)	A5855☐-100-ND	57.71	5855 ☐☐005
22	7/30	.010 (.25)	.055 (1.27)	A58557☐-100-ND	67.84	5855/7 ☐☐005
20	19/32	.010 (.25)	.059 (1.50)	A5856☐-100-ND	82.24	5856 ☐☐005
18	19/30	.010 (.25)	.070 (1.78)	A5857☐-100-ND	115.43	5857 ☐☐005
16	19/29	.010 (.25)	.077 (1.96)	A5858☐-100-ND	140.74	5858 ☐☐005
14	19/27	.012 (.30)	.094 (2.39)	A5859☐-100-ND†	203.63	5859 ☐☐005

† Not UL AWM Style 1213

* For ☐ in Digi-Key Part No. choose letter which represents color of your choice:
B = Black **R** = Red **W** = White

** For ☐☐ in Alpha Part No. choose letters which represents color of your choice:
BK = Black **RD** = Red **WH** = White

Bus Bar Wire

Description: • Electrolytic Soft Drawn and Annealed Solid Tin Plated Copper **Specifications**: • MIL-W-3861 Type S • QQ-W-343 Type S

Conductor Size (AWG)	Diameter Inch (mm)	Digi-Key Part No.	Price Per 1000 ft.	Alpha Part No.
Bus Bar Wire				
30	.010 (.25)	A299/3SV-1000-ND	145.01	299/3 SV001
28	.013 (.33)	A299/2SV-1000-ND	154.91	299/2 SV001
26	.016 (.41)	A299/1SV-1000-ND	177.53	299/1 SV001
24	.020 (.51)	A299SV-1000-ND	186.64	299 SV001
22	.025 (.64)	A298SV-1000-ND	242.89	298 SV001
20	.032 (.81)	A297SV-1000-ND	321.86	297 SV001
18	.040 (1.02)	A296SV-1000-ND	456.98	296 SV001
16	.051 (1.30)	A295SV-1000-ND	704.36	295 SV001
14	.064 (1.62)	A286SV-1000-ND	1035.68	286 SV001
12	.081 (2.06)	A289SV-1000-ND	1532.36	289 SV001

Teflon Tubing

Application: • Wire Harness • High Temp. Component Covering; **Color**: • Transparent **Physical Properties**: • Tensile Strength 2500 psi (176Kg/cm2) • Ultimate Elongation 200% • Flammability: Self-Extinguishing **Chemical Properties**: • Corrosive Effect: Non-Corrosive • Fungus Resistance: No Growth • Water Absorption 0.01% **Electrical Properties**: • Dielectric Strength; 800V/mil **Specifications**: ASTN D 3295

Fits Bare Cond. Size (AWG)	Nominal Inside Dia. Inch (mm)	Wall Thick. Inch (mm)	Digi-Key Part No.	Price Per 100 ft.	Alpha Part No.
30	.012 (.30)	.009 (.22)	ATFT20030-100-ND	59.18	TFT20030 NA005
28	.015 (.38)	.009 (.22)	ATFT20028-100-ND	51.86	TFT20028 NA005
26	.018 (.45)	.009 (.22)	ATFT20026-100-ND	46.91	TFT20026 NA005
24	.022 (.55)	.010 (.25)	ATFT20024-100-ND	51.53	TFT20024 NA005
22	.028 (.71)	.010 (.25)	ATFT20022-100-ND	59.96	TFT20022 NA005
19	.038 (.96)	.012 (.30)	ATFT20019-100-ND	77.85	TFT20019 NA005
18	.042 (1.07)	.012 (.30)	ATFT20018-100-ND	84.60	TFT20018 NA005
17	.047 (1.19)	.012 (.30)	ATFT20017-100-ND	92.70	TFT20017 NA005
16	.053 (1.35)	.012 (.30)	ATFT20016-100-ND	100.91	TFT20016 NA005
15	.059 (1.50)	.012 (.30)	ATFT20015-100-ND	103.95	TFT20015 NA005
14	.066 (1.68)	.012 (.30)	ATFT20014-100-ND	90.00	TFT20014 NA005
13	.076 (1.93)	.012 (.30)	ATFT20013-100-ND	103.73	TFT20013 NA005
12	.085 (2.16)	.012 (.30)	ATFT20012-100-ND	110.70	TFT20012 NA005
11	.095 (2.41)	.012 (.30)	ATFT20011-100-ND	121.16	TFT20011 NA005
10	.106 (2.69)	.012 (.30)	ATFT20010-100-ND	131.40	TFT20010 NA005
2	.263 (6.68)	.015 (.38)	ATFT2002-100-ND	362.81	TFT2002 NA005
1	.294 (7.47)	.015 (.38)	ATFT2001-100-ND	397.35	TFT2001 NA005
0	.330 (8.38)	.015 (.38)	ATFT2000-100-ND	449.33	TFT2000 NA005

Coaxial, Ethernet, Thinnet, Twinaxial Cable

Coaxial Cables,
Non-Plenum Coaxial
and Data Systems

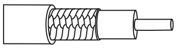

Thinnet — Plenum
and Non-Plenum
Ethernet Cables

Non-Plenum
Twinaxial Cable

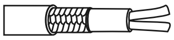

Cond. RG Type	Inner Size (AWG)	Inner Cond. Strand.	Dielec. Cond. Mat'l†	Diameter Inch (mm)	Shield Dielec. Material†	Nom. Coverage	Jacket Shield Material†	Diameter Inch (mm)	Jacket Material†	Impe-dance (Ω)	Cap. pF/ft	Temperature Rate (°C)	Volt Rate	NEC/UL (See Below)	Digi-Key Part No.	Note: X in Part No. = Ft. Per Roll Price per roll 100 ft.	500 ft.	1,000 ft.	Alpha Part No.
Coaxial Cable																			
58 A/U	20	19/0.0071"	TC	.116 (2.95)	PE	95%	TC Braid	.195 (4.95)	V Black	50	30.5	60	150	1	A305-X-ND	59.90	240.90	374.10	9058AC-X
58 C/U	20	19/0.0071"	TC	.116 (2.95)	PE	95%	TC Braid	.195 (4.95)	NCV Black	50	30.5	60	—	—	A306-X-ND	113.30	315.40	517.00	9058C-X
59/U	22	Solid	CW	.146 (3.71)	PE	95%	BC Braid	.242 (6.15)	V Black	75	21.4	60	150/CL2, 30/AWM	1, 7	A301-X-ND	60.90	—	344.80	9059C-X
62 A/U	22	Solid	CW	.146 (3.71)	SSP	95%	BC Braid	.242 (6.15)	V Black	93	13.2	60	150/CL2, 30/AWM	1, 8	A302-X-ND	56.20	206.40	281.60	9062A-X
174/U	26	7/34	CW	.060 (1.52)	PE	88%	TC Braid	.100 (2.54)	V Black	50	31.1	—	—	9	A307-X-ND	55.50	220.60	339.30	9174-X
178 B/U	30	7/38	SC/CW	.034 (.86)	TFE	96%	SC Braid	.071 (1.80)	FEP Natural	50	28.4	—	—	—	A316-X-ND	257.80	1184.60	1011.30	9178B-X
179 B/U	30	7/38	SC/CW	.063 (1.60)	TFE	93%	SC Braid	.100 (2.54)	Tint FEP Brown	75	19.6	—	—	—	A317-X-ND	268.80	1234.60	1196.30	9179B-X
214/U	13	7/0.0296"	SC	.285 (7.24)	PE	99%	SC Braid Dbl	.425 (10.79)	NCV Black	50	30.8	—	—	—	A308-X-ND•	1174.30	—	7983.50	9214-X
223/U	19	Solid	SC	.116 (2.95)	PE	99%	SC Braid Dbl	.212 (5.38)	NCV Black	50	31.5	—	—	—	A309-X-ND•	393.20	1806.10	2996.80	9223-X
316/U	26	7/0.0067"	SCCS	.060 (1.52)	TFE	93%	SC	.098 (2.49)	FEP	50	30.0	—	—	—	A315-X-ND	221.70	1062.40	1570.70	9316-X
8/U	13	7/21	BC	.285 (7.24)	PE	96%	BC Braid	.405 (10.29)	V Black	52	29.5	—	—	—	A318-X-ND	155.90	715.90	1165.60	9008-X
Ethernet Cable																			
Thinnet**	20	19/0.0075"	TC	.112 (2.84)	FEP Teflon	95%	A/M/A + TC Braid	.182 (4.62)	F Gray	50	30.5	125	300	3, 4, 6	A311-X-ND*	—	—	877.80	9871F-X
Thinnet ‡	20	19/32	TC	.102 (2.59)	FPE	95%	A/M/A + TC Braid	.180 (4.57)	V Black	50	25.5	60	300	2, 4, 5	A312-1000-ND	—	—	355.80	9881C-1000
Twinaxial Cable																			
Twinax #	20	7/28	BC/TC	.236 (5.99)	PE	95%	TC Braid	.330 (8.38)	V Black	100	15.5	75/CL2, 80/AWM	150/CL2, 30/AWM	1, 10	A303-X-ND	—	484.90	—	9818C-X

† Code Description:

A/M/A — Aluminum/Polyester/Aluminum Tape
BC — Bare Copper
CW — Copper Coated Steel
F — Fluoropolymer
FEP — Fluorinated Ethylene-Propylene
FPE — Cellular (foam) Polyethylene
NCV — Non-contaminating Polyvinyl chloride ,Type II
PE — Solid Polyethylene
SC — Silver Coated Copper
SCCS — Silver Coated Copper Clad Steel
SSP — Semi-solid Polyethylene
TC — Tinned Copper
TFE — Tetrafluoroethylene
V — Polyvinyl chloride - Type I

* Plenum
**ETHERNET IEEE 802.3 10base2 10Mbps
‡ THIN-NET 10Mbps
# IBM SYSTEM (34/36/38/AS 400)
• MIL-C-170D Type

NEC Rating —
1. CL2 **2.** CM **3.** CMP
4. CXC **5.** FT4 **6.** FT6

UL Style —
7. UL AWM 1354 **8.** UL AWM 1478 **9.** UL 1354
10. UL AWM 2498 **11.** UL AWM 2704

FIT® Shrinkable Tubing FIT® 221B

- Economical bulk packaging • Flexibility
- Excellent flame retardancy • Military, UL/CSA requirements

Characteristics: • Operating Temperature: -55°C ~ 135°C
• Shrinkage Ratio: Approximately 2 to 1 at 121°C • Color: Black, Clear

Physical Properties: • Tensile Strength: 1800 psi, (127 kg/cm^2)
• Ultimate Elongation: 400% • Longitudinal Shrinkage: 5%
• Specific Gravity: 1.35 • Secant Modulus: 2.5 x 10^4 maximum
• Flammability: Self-extinguishing

Electrical Properties: • Dielectric Strength: 500V/mil (197 kV/cm)
• Volume Resistivity: 10^{14} Ω-cm

Chemical Properties: • Corrosive Effect: Passes copper stability test
• Fungus Resistance: No growth

Specifications: • MIL-DTL-23053/5C, Class 1, 2
• UL Standard 224 (black only) • CSA Standard 198 (black only)

CONTENTS for FIT-221 Variety Pack

Tubing Size	Number of Cut Pieces					
	Black	White	Red	Blue	Yellow	Green
1/8”	4	3	2	2	2	1
3/16”	4	3	2	2	2	1
1/4”	4	3	2	2	2	1
3/8”	3	2	1	1	1	1
1/2”	3	2	1	1	1	1

Color	Minimum Supplied Inner Diameter Inch (mm)	Maximum Recovered Inner Diameter Inch (mm)	Nominal Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	Pricing Sold in 4’ Lengths 4’ (1 pc.)	20’ (5 pcs.)	Digi-Key Part No.	Spool Size (Feet)	Price Per Spool	Alpha Part No.
FIT® 221B — Irradiated Polyolefin										
Black Clear	0.046 (1.17)	0.023 (0.58)	0.016 (0.41)	A364B-4-ND A364C-4-ND	.75 .75	3.35 3.35	A364B-1000-ND A364C-1000-ND	1000 1000	174.60 174.60	FIT-221B-3/64 BKXXX FIT-221B-3/64 CLXXX
Black Clear	0.063 (1.60)	0.031 (0.78)	0.017 (0.43)	A116B-4-ND A116C-4-ND	.80 .80	3.56 3.56	A116B-1000-ND A116C-1000-ND	1000 1000	185.66 185.66	FIT-221B-1/16 BKXXX FIT-221B-1/16 CLXXX
Black Clear	0.093 (2.36)	0.046 (1.17)	0.020 (0.50)	A332B-4-ND A332C-4-ND	.89 .89	3.95 3.95	A332B-500-ND A332C-500-ND	500 500	103.05 103.05	FIT-221B-3/32 BKXXX FIT-221B-3/32 CLXXX
Black Clear	0.125 (3.18)	0.062 (1.58)	0.020 (0.50)	A018B-4-ND A018C-4-ND	.96 .96	4.26 4.26	A018B-500-ND A018C-500-ND	500 500	111.08 111.08	FIT-221B-1/8 BKXXX FIT-221B-1/8 CLXXX
Black Clear	0.187 (4.75)	0.093 (2.36)	0.020 (0.50)	A316B-4-ND A316C-4-ND	1.17 1.17	5.18 5.18	A316B-500-ND A316C-500-ND	500 500	135.00 135.00	FIT-221B-3/16 BKXXX FIT-221B-3/16 CLXXX
Black Clear	0.250 (6.35)	0.125 (3.18)	0.025 (0.63)	A014B-4-ND A014C-4-ND	1.45 1.45	6.46 6.46	A014B-250-ND- A014C-250-ND	250 250	84.38 84.38	FIT-221B-1/4 BKXXX FIT-221B-1/4 CLXXX
Black Clear	0.375 (9.53)	0.187 (4.75)	0.025 (0.63)	A038B-4-ND A038C-4-ND	1.62 1.62	7.22 7.22	A038B-200-ND A038C-200-ND	200 200	75.38 75.38	FIT-221B-3/8 BKXXX FIT-221B-3/8 CLXXX
Black Clear	0.500 (12.70)	0.250 (6.35)	0.025 (0.63)	A012B-4-ND A012C-4-ND	1.83 1.83	8.14 8.14	A012B-150-ND A012C-150-ND	150 150	63.73 63.73	FIT-221B-1/2 BKXXX FIT-221B-1/2 CLXXX
Black Clear	0.750 (19.10)	0.375 (9.53)	0.030 (0.76)	A034B-4-ND A034C-4-ND	2.71 2.71	12.05 12.05	AW034B-250-ND —	250 —	168.53 —	FIT-221B-3/4 BKXXX FIT-221B-3/4 CLXXX
Black Clear	1.000 (25.40)	0.500 (12.70)	0.035 (0.88)	A100B-4-ND A100C-4-ND	3.84 3.84	17.08 17.08	A100B-250-ND AW100C-250-ND	250 250	235.46 235.46	F2211IN BKXXX F221B1IN CLXXX
FIT MGKIT 1 (Heat Gun plus FIT-221 Variety Pack)							FITMGKIT1-ND	102.49 /1		FITMGKIT1 NC032
FIT-221 Variety Pack (60, 6 inch cut pieces, see chart above for contents)							FIT221R-ND	34.54 /1		FIT-221-R MC213

FIT® Heat Shrink Fabric

Characteristics: • Operating Temp. -40°C ~ 125°C • Shrink Ratio: approximately. 2 to 1 or 3 to 1 at 135°C depending on size • Color Description: All standard packages: black

Physical Properties: • Longitudinal Shrinkage: up to 20% at 2:1 shrink ratio, up to 25% at 3:1 shrink ratio • Flammability: Meets MVSS 302 horizontal burn test

Chemical Properties: • Corrosive Effect: non-corrosive • Fungus Resistance: no growth • Chemical Resistance: antifreeze (50% ethylene glycol), engine oil, mineral hydraulic fluid, detergent (1% teepol), brake fluid (DOT 4), unleaded gasoline, diesel fuel, battery acid

Color	Minimum Supplied I.D. Inch (mm)	Maximum Recovered I.D. Inch (mm)	Nom. Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	Spool Size (Feet)	Price Per Spool	Alpha Part No.
Black	0.47 (12.0)	0.24 (6.0)	0.039 (0.99)	A0471B-50-ND	50	113.74	FITFAB-1 BK007
Black	0.47 (12.0)	0.24 (6.0)	0.039 (0.99)	A0471B-200-ND	200	325.13	FITFAB-1 BK004
Black	0.79 (20.0)	0.39 (10.0)	0.039 (0.99)	A0792B-50-ND	50	135.90	FITFAB-2 BK007
Black	0.79 (20.0)	0.39 (10.0)	0.039 (0.99)	A0792B-200-ND	200	385.88	FITFAB-2 BK004
Black	1.18 (30.0)	0.59 (15.0)	0.039 (0.99)	A1183B-50-ND	50	165.60	FITFAB-3 BK007
Black	1.18 (30.0)	0.59 (15.0)	0.039 (0.99)	A1183B-200-ND	200	470.36	FITFAB-3 BK004
Black	1.57 (40.0)	0.79 (20.0)	0.039 (0.99)	A1574B-50-ND	50	199.58	FITFAB-4 BK007
Black	1.57 (40.0)	0.79 (20.0)	0.039 (0.99)	A1574B-200-ND	200	567.11	FITFAB-4 BK004
Black	1.97 (50.0)	0.98 (25.0)	0.039 (0.99)	A1975B-25-ND	25	122.51	FITFAB-5 BK008
Black	1.97 (50.0)	0.98 (25.0)	0.039 (0.99)	A1975B-100-ND	100	348.30	FITFAB-5 BK005
Black	2.36 (60.0)	1.18 (30.0)	0.039 (0.99)	A2366B-25-ND	25	133.31	FITFAB-6 BK008
Black	2.36 (60.0)	1.18 (30.0)	0.039 (0.99)	A2366B-100-ND	100	379.46	FITFAB-6 BK005
Black	2.76 (70.0)	1.38 (35.0)	0.039 (0.99)	A2767B-25-ND	25	182.25	FITFAB-7 BK008
Black	2.76 (70.0)	1.38 (35.0)	0.039 (0.99)	A2767B-100-ND	100	517.50	FITFAB-7 BK005
Black	0.71 (18.0)	0.24 (6.0)	0.039 (0.99)	A0718B-50-ND	50	159.75	FITFAB-8 BK007
Black	0.71 (18.0)	0.24 (6.0)	0.039 (0.99)	A0718B-200-ND	200	455.06	FITFAB-8 BK004
Black	1.18 (30.0)	0.39 (10.0)	0.039 (0.99)	A1189B-50-ND	50	191.03	FITFAB-9 BK007
Black	1.18 (30.0)	0.39 (10.0)	0.039 (0.99)	A1189B-200-ND	200	543.60	FITFAB-9 BK004
Black	2.36 (60.0)	0.79 (20.0)	0.039 (0.99)	A11810B-25-ND	25	141.30	FITFAB-10 BK008
Black	2.36 (60.0)	0.79 (20.0)	0.039 (0.99)	A23610B-100-ND	100	401.40	FITFAB-10 BK005

FIT® Powerful Flameless Butane Torch

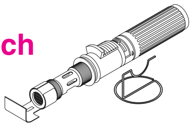

Lightweight and easy to use with a wide nozzle, the FIT TORCH-1 is a convenient repair solution for electrical and electronics technicians. With a temperature range of up to 750ºC (1400ºF), it can be used to shrink most heat shrinkable tubing products. The FIT TORCH-1 is ideal for general heating and drying applications and the heat testing of electronic components. Cordless and refillable, only 7.5 inches long, it can be used continuously up to 120 minutes before recharging with 100% butane fuel. Comes complete with one additional electronic ignition catalytic converter, one deflector attachment, and one tool stand. Butane fuel not included.

FITTORCH-1-ND Butane Torch **$77.06**

FIT® Multi-Functional Heat Gun

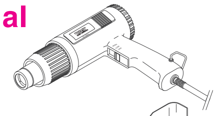

The economical and multi-functional FIT GUN-3 is a two-temperature heat gun that is lightweight in design. The low setting is at 400°C (750°F) while the high temperature is rated at 585°C (1090°F).

It features a durable plastic housing with a built-in ring stand and hanger, concentrator nozzle and hook reflector nozzle attachments.

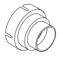

Concentrator Nozzle

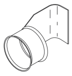

Reflector Nozzle

FITGUN3-ND Heat Gun **$75.30**

MASTER® APPLIANCE ProHeat® Heat Guns

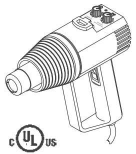

Features: • Compact, light-weight, easy-to-use design, professional-quality heat guns • 120V • Variable temperature (some models) • Variable airflow (some models) • Special electronic closed loop temperature control system maintains constant temperature when varying airflow or using specialty attachments (some models) • Use to heat temperature sensitive materials • Base provides built-in stand for hands free use • Made in the USA

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Description	Digi-Key Part No.	Price Each	Master Part No.
Proheat			
Gun, 430° / 840°F (221ºC / 449ºC), 15 CFM	MA1009-ND	84.15	PH-1100
Gun Kit, 430° / 840°F (221ºC / 449ºC), 15 CFM†	MA1010-ND	111.96	PH-1100K
VariTemp™			
Gun, 130°~840°F (49ºC~449ºC), 15 CFM	MA1011-ND	144.31	PH-1200
Gun System, 130°~840°F (49ºC~449ºC), 15 CFM‡	MA1012-ND	152.09	PH-1200-1
Gun Kit, 130°~840°F (49ºC~449ºC), 15 CFM†	MA1013-ND	199.64	PH-1200-K
VariAir™			
Gun, 130°~900°F (54ºC~482ºC), 6 ~ 15 CFM	MA1014-ND	175.00	PH-1300
Gun System, 130°~900°F (54ºC~482ºC), 6~15 CFM ‡	MA1015-ND	183.64	PH-1300-1
Gun Kit, 130°~900°F (54ºC~482ºC), 6~15 CFM †	MA1016-ND	229.00	PH-1300-K

† Kit includes: Heat gun, attachments and storage case. ‡System includes: Heat gun, stand and attachment.

MASTER® APPLIANCE MASTERMITE®

Heat Gun

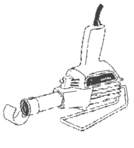

Quiet running. Comes standard with bench stand, heat shrink attachment, and interchangeable heating element. High impact plastic housing, lightweight, draws only 4.0 amps maximum, continuous duty brushless motor, temperature: 650°F (343°C), 120V, 60Hz, 4.0A.

Certified

MA1006-ND Heat Gun **$81.93**
MA1007-ND Replacement Heat Element **$25.51**

MASTER® APPLIANCE

ECOHEAT™ Heat Gun and Kit

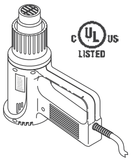

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Features:

- Two fan speeds
- Two heat settings: 500°F and 1,000°F
- Resettable thermostat
- Thermoplastic housing
- Built-in stand

Kit Contains:
7/8” air reducer attachment, shrink tubing attachment, 1-15/16” and 3-1/8” spreader attachments, storage and carrying case.

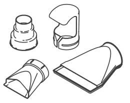

MA1008-ND........ **$52.55**

STEINEL® Heat Guns

Fig. 1

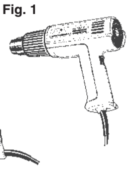

Fig. 2

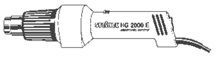

Certified

Fig.	Description	Digi-Key Part No.	Price Each
1	3 Speed Fixed Temp Heat Gun	SDL1100-ND	104.00
—	Heat Shrink Attachment for SDL1100-ND	SDL1300-ND	12.00
1	Variable Temperature Industrial Heat Gun Variable, LCD Readout Heat Gun	SDL1200-ND SDL1350-ND	176.00 212.00
2	Variable Ergonomic Heat Gun	SDL1250-ND	176.00
—	Heat Gun Stand Benchtop Reducer-Reflector Nozzle 3/8” (9mm) Reducer Nozzle Attachment 3/8” (9mm) Reducer Nozzle Attachment 5/8” (14mm) Reflector Nozzle 3” (75mm) Refl. Nozzle 5/8” (14mm) (does not fit SDL1100)	SDL1400-ND SDL1303-ND SDL1301-ND SDL1302-ND SDL1304-ND SDL1305-ND	32.00 20.00 12.00 12.00 17.00 14.00

HL1502S (SDL1100-ND): Three temperature levels can be selected conveniently with one hand during use. **Specifications:** • Voltage: 120V AC • Output: 1400W • Temperature: • Step 1: 120°F (49°C) • Step 2: 800°F (427°C) • Step 3: 1050°F (566°C) • Air Flow: minimum 8.8cfm, maximum 17.6cfm. **HL1802E (SDL1200-ND), HG3002LCD (SDL1350-ND), HG2000E (SDL1250-ND):** Continuously adjustable, electronically controlled hot air. The electronic temperature regulator allows ideal temperature setting. Model HG3002LCD has an LCD continuous temperature display. **Specifications:** • Voltage: 120VAC • Output: 1500W • Temperature: 120° ~ 1100°F (49° ~ 593°C) • Air Flow: minimum 8.8, maximum 17.6cfm (HL1802E), minimum 7, maximum 17.6cfm (HG3002LCD) & minimum 11.3, maximum 17.6cfm (HG2000E).

MASTER® APPLIANCE Heat Gun

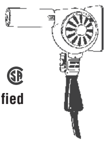

Features universal motor, high air velocity, volume and temperatures. Rugged die-cast aluminum housing with externally replaceable carbon brushes, 3 wire oil resistant cord set, and reinforced ceramic heating element, temperature: 500°F ~ 750°F (260°C ~ 399°C), 120V, 14A.

Certified

Description	Digi-Key Part No.	Price Each
Heat Gun	MA1001-ND	110.95
Heat Shrink Attachment - Shrink Tubing from 3/4” to 2” (19-51mm) O.D.	MA1002-ND	17.07
Shrink Wrap Attachment - 8” (203mm) Wide Heat Reducer Attachment - 3/4” (19mm) Replacement Heat Element	MA1003-ND MA1004-ND MA1005-ND	45.45 8.87 20.42

3M Heat Shrinkable Tubing

KYNAR®, EPS-300, SFTW202 GYS, SFTW203, 8420 & 8440 Series

KYNAR® Series-Modified Polyvinylidene Fluoride: Shrink Temperature: 175°C (347°F). **Color:** Clear. **Shrink Ratio:** 2:1. Cross-linked, thin-walled tubing offers a high degree of mechanical strength and high temperature resistance. This has outstanding abrasion resistance and cut-through properties in combination with high dielectric strength. It is inherently flame retardant, semi-rigid and highly resistant to most industrial fuels, chemicals and solvents. Kynar® is a registered trademark of Elf Atochem North America, Inc.
EPS-300 Series-Adhesive-Lined Flexible Polyolefin: Shrink Temperature: 121°C (250°F). **Color:** Black. **Shrink Ratio:** 3:1. Rapidly shrinks to a skintight fit, forcing the melted adhesive to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistent barrier.
SFTW202 GYS Series-Very Flexible Polyolefin: Shrink Temperature: 100°C (212°F). **Color:** Green and yellow striped. **Shrink Ratio:** 2:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL Recognized (File No. E48398) for flame retardance. Can be easily surface painted.
SFTW203 Series-Very Flexible Polyolefin: Shrink Temperature: 100°C (212°F). **Color:** Black. **Shrink Ratio:** 3:1. Meets performance requirements of MIL-I-23053/5 Class 1, and is UL Recognized (File No. E48398) for flame retardance. Can be easily surface painted.
8420 Series-EPDM and 8440 Series-Silicone Rubber Tubes: Color: Black (8420 Series) and Gray (8440 Series). **Cold Shrink™ Insulators-**Open-ended, tubular rubber sleeves that are factory expanded and assembled onto a removable plastic core. Provides a reliable seal without the use of heat, a torch or adhesive - simply position and unwind the core allowing the tube to shrink and form a water-resistant seal.

Tubing Size Dia.* In. (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nominal Recov. Wall Thick (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
KYNAR® Series - Modified Polyvinylidene Fluoride									
3/64 (1.19)	1.17	0.58	0.25	KY364C-ND	5.13	8.89	19.67	41.04	68.40
1/16 (1.60)	1.60	0.79	0.25	KY116C-ND	5.26	9.12	20.18	42.12	70.19
3/32 (2.38)	2.36	1.17	0.25	KY332C-ND	5.63	9.76	21.59	45.05	75.09
1/8 (3.18)	3.18	1.57	0.25	KY018C-ND	6.09	10.56	23.35	48.73	81.22
3/16 (4.78)	4.75	2.36	0.25	KY316C-ND	8.58	15.18	33.01	63.38	—
1/4 (6.35)	6.35	3.18	0.30	KY014C-ND	10.59	18.73	40.72	78.18	—
3/8 (9.52)	9.53	4.75	0.30	KY038C-ND	12.75	22.56	49.03	94.14	—
1/2 (12.70)	12.70	6.35	0.30	KY012C-ND	16.91	29.42	58.83	—	—

Tubing Size Dia.* In. (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nominal Recov. Wall Thick (mm)	Meltable Recov. Wall Thick (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
EPS-300 Series - Adhesive-lined, Flexible, Polyolefin										
1/8 (3.18)	3.18	1.02	1.02	0.51	EPS3018K-ND	9.32	16.15	35.72	74.55	112.61
3/16 (4.78)	4.75	1.57	1.02	0.51	EPS3316K-ND	8.85	15.66	34.05	63.33	—
1/4 (6.35)	6.35	2.03	1.02	0.51	EPS3014K-ND	10.96	19.39	42.16	78.41	—
3/8 (9.52)	9.53	3.05	1.40	0.62	EPS3038K-ND	12.40	21.94	47.70	88.72	—
1/2 (12.70)	12.70	4.06	1.78	0.76	EPS3012K-ND	14.49	25.64	55.74	103.68	—

Tubing Size Dia* In. (mm)	Expanded I.D. (Min.) (mm)	Recovered I.D (Max.) (mm)	Nominal Recovered Wall Thick. (mm)	(NOTE: "X" in Part No. Represents Number of Feet) Digi-Key Part No.	Price Per Length 5'	25'	50'	Reel Size	Price Per Full Reel
SFTW202 GYS Series - Very Flexible Polyolefin									
1/8 (3.18)	3.18	1.5	0.51	SFTW2018E-X-ND	5.92	23.69	33.95	500	245.14
3/16 (4.78)	4.76	2.5	0.55	SFTW2316E-X-ND	8.21	32.84	47.06	250	169.92
1/4 (6.35)	6.35	3.0	0.65	SFTW2014E-X-ND	9.06	36.26	51.97	200	150.10
3/8 (9.52)	9.53	4.5	0.76	SFTW2038E-X-ND	10.06	40.24	57.67	200	166.58
1/2 (12.70)	12.70	6.0	0.76	SFTW2012E-X-ND	11.30	45.20	64.79	200	187.14
SFTW203 Series - Very Flexible Polyolefin									
1/16 (1.59)	1.5	0.5	0.45	SFTW2116K-X-ND	2.13	8.51	12.19	1,000	176.05
1/8 (3.18)	3.0	1.0	0.55	SFTW2018K-X-ND	2.43	9.71	13.92	500	100.52
1/4 (6.35)	6.0	2.0	0.65	SFTW2014K-X-ND	3.68	14.74	21.12	200	61.01
3/8 (9.52)	9.0	3.0	0.75	SFTW2038K-X-ND	4.11	16.46	23.59	200	68.12
1/2 (12.70)	12.0	4.0	0.75	SFTW2012K-X-ND	4.64	18.57	26.62	200	76.88

* Indicates size BEFORE shrinking occurs.

Diameter Range In. (mm)	Relaxed Tube Length In. (mm)	Digi-Key Part No.	Pricing 1	10
8420 - EPDM Cold Shrink Tubes				
0.31 - 0.56 (7.87 - 14.22)	6.0 (152.40)	8423-6-ND	12.78	116.68
0.10 - 0.82 (2.54 - 20.83)	8.0 (203.20)	8424-8-ND	16.40	149.73
0.40 - 0.82 (10.16 - 20.83)	8.0 (203.20)	8425-8-ND	14.38	131.29
0.55 - 1.18 (13.97 - 29.97)	9.0 (228.60)	8426-9-ND	17.12	156.31
0.55 - 1.18 (13.97 - 29.97)	11.0 (279.40)	8426-11-ND	20.52	187.35
0.67 - 1.38 (17.02 - 35.05)	6.0 (152.40)	8427-6-ND	12.94	118.14
0.67 - 1.38 (17.02 - 35.05)	12.0 (304.80)	8427-12-ND	25.58	233.55
0.67 - 1.38 (17.02 - 35.05)	16.0 (406.40)	8427-16-ND	34.16	311.88
0.95 - 1.94 (24.13 - 49.28)	6.0 (152.40)	8428-6-ND	18.26	166.71
0.95 - 1.94 (24.13 - 49.28)	12.0 (304.80)	8428-12-ND	36.42	332.51
0.95 - 1.94 (24.13 - 49.28)	18.0 (457.20)	8428-18-ND	54.78	500.14
1.27 - 2.67 (32.26 - 67.82)	6.0 (152.40)	8429-6-ND	19.98	182.42
1.27 - 2.67 (32.26 - 67.82)	9.0 (228.60)	8429-9-ND	29.90	272.99
1.27 - 2.67 (32.26 - 67.82)	12.0 (304.80)	8429-12-ND	40.98	374.15
1.27 - 2.67 (32.26 - 67.82)	18.0 (457.20)	8429-18-ND	59.90	546.89
1.68 - 3.69 (42.67 - 93.73)	9.0 (228.60)	8430-9-ND	41.32	377.25
1.68 - 3.69 (42.67 - 93.73)	18.0 (457.20)	8430-18-ND	65.30	596.19
8440 - Silicone Cold Shrink Tubes				
.27 - .56 (6.86 - 14.22)	2.0 (50.80)	8443-2-ND	7.80	71.21
.27 - .56 (6.86 - 14.22)	6.5 (165.10)	8443-6.5-ND	10.82	98.79
.35 - .72 (8.89 - 18.29)	2.5 (63.50)	8445-2.5-ND	8.12	74.14
.35 - .72 (8.89 - 18.29)	7.5 (190.50)	8445-7.5-ND	11.86	108.28
.48 - .95 (12.19 - 24.13)	3.2 (81.28)	8447-3.2-ND	9.94	90.75
.48 - .95 (12.19 - 24.13)	8.0 (203.20)	8447-8-ND	14.28	130.38

EPS-200 and VFP-876, Series

EPS-200 Series:

Shrink Temperature: 121°C, **Color:** Black, **Shrink Ratio:** 2:1 Rapidly shrinks to a skintight fit, forcing the melted adhesive lining to flow and cover the substrate. The adhesive forms a flexible bond with a wide variety of rubbers, plastics and metals. Upon cooling, the adhesive solidifies forming a permanent, non-drying, flexible and water resistant barrier. Rated for operation at -55°C ~ 110°C (-67°F ~ 230°F).

VFP-876 Series-Very Flexible Polyolefin:

Shrink Temperature: 100°C, **Color:** Black, **Shrink Ratio:** 2:1. Most flexible of the heat shrinkable, polyolefin tubings. Ideal for jacketing and insulation of flexible wire bundles and sensitive components.

Tubing Size Dia.* Inch (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nom. Recov. Wall Thick (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
EPS-200 Series - Adhesive-lined, Flexible, Polyolefin									
1/8 (3.18)	3.18	1.60	.69	EPS2018-ND	5.22	9.06	20.03	41.80	67.49
3/16 (4.76)	4.75	2.36	.69	EPS2316-ND	4.93	8.72	18.95	35.25	—
1/4 (6.35)	6.35	3.18	.76	EPS2014-ND	6.17	10.91	23.72	44.11	—
3/8 (9.53)	9.52	4.75	.79	EPS2038-ND	6.95	12.29	26.72	49.69	—
1/2 (12.70)	12.70	6.35	.81	EPS2012-ND	7.98	14.12	30.69	57.09	—
3/4 (19.05)	19.05	9.52	.94	EPS2034-ND	9.66	16.79	32.53	—	—
1 (25.40)	25.40	12.70	1.17	EPS2100-ND	14.20	24.69	47.83	—	—
1-1/2 (38.10)	38.10	19.05	1.24	EPS2112-ND	24.83	43.18	83.67	—	—
2 (50.80)	50.80	25.40	1.52	EPS2200-ND	34.56	53.57	—	—	—

Tubing Size Dia.* Inch (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nom. Recov. Wall Thick (mm)	Digi-Key Part No.	(NOTE: "X" in Part No. Represents Number of Feet) Price Per Length 5'	25'	50'	100'	200'
VFP-876 Series - Very Flexible Polyolefin, Self-extinguishing									
3/64 (1.19)	1.17	.58	.41	VFP364-X-ND	2.00	8.93	15.99	28.78	—
1/16 (1.59)	1.60	.79	.43	VFP116-X-ND	2.04	9.10	16.31	29.35	—
3/32 (2.38)	2.36	1.17	.51	VFP332-X-ND	2.15	9.61	15.50	24.68	—
1/8 (3.18)	3.18	1.57	.51	VFP018-X-ND	2.32	10.38	16.73	26.64	—
3/16 (4.76)	4.75	2.36	.51	VFP316-X-ND	2.83	11.32	16.22	28.67	—
1/4 (6.35)	6.35	3.18	.64	VFP014-X-ND	3.53	14.12	20.24	35.78	58.47
3/8 (9.53)	9.52	4.75	.64	VFP038-X-ND	3.94	15.77	22.61	39.96	65.30
1/2 (12.70)	12.70	6.35	.64	VFP012-X-ND	4.45	17.79	25.50	45.07	73.65
3/4 (19.05)	19.05	9.52	.76	VFP034-X-ND	5.93	23.72	34.00	60.10	98.21
1 (25.40)	25.40	12.70	.89	VFP100-X-ND	8.87	35.48	50.85	73.43	—
1-1/2 (38.10)	38.10	19.05	1.02	VFP112-X-ND	16.53	66.11	94.76	136.85	—
2 (50.80)	50.80	25.40	1.14	VFP200-X-ND	22.84	91.36	130.95	189.11	—

* Indicates size BEFORE shrinking occurs.

Colored Heat Shrinkable Tubing (FP-301 Series)

Available in 7 Colors: (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow)

Shrink Temperature: 121°C.
Shrink Ratio: 2:1. Tubing is split resistant, mechanically tough, easily marked and resist cold flow, for UL, CSA and Mil-I-23053/5 applications at 600V @ 125°C.

Tubing Size Dia. * Inch (mm)	Expand. I.D. (Min.) (mm)	Recov. I.D. (Max.) (mm)	Nom. Recov. Wall Thick (mm)	Digi-Key Part No.	(NOTE: "X" in Part No. Represents Number of Feet) Price Per Length 5'	25'	50'	100'	200'	250'
FP-301 Series - Flexible Polyolefin, Self-extinguishing, Flame Retardant, Color										
3/64 (1.19)	1.17	.58	.41	FP364☐-X-ND†	1.69	7.57	13.58	24.44	—	48.65
1/16 (1.59)	1.60	.79	.43	FP116☐-X-ND	1.69	7.57	13.56	24.39	—	48.56
3/32 (2.38)	2.36	1.17	.51	FP332☐-X-ND	1.79	8.01	12.91	20.56	—	45.42
1/8 (3.18)	3.18	1.57	.51	FP018☐-X-ND	1.89	8.46	13.64	21.73	—	47.99
3/16 (4.76)	4.75	2.36	.51	FP316☐-X-ND	2.21	8.84	12.66	22.37	—	49.56
1/4 (6.35)	6.35	3.18	.64	FP014☐-X-ND	2.75	11.04	15.82	27.95	49.57	—
3/8 (9.53)	9.52	4.75	.64	FP038☐-X-ND	3.08	12.31	17.65	31.20	55.34	—
1/2 (12.70)	12.70	6.35	.64	FP012☐-X-ND	3.70	14.81	21.21	37.50	62.40	—
3/4 (19.05)	19.05	9.52	.76	FP034☐-X-ND	4.93	19.73	28.26	49.95	83.20	—
1 (25.40)	25.40	12.70	.89	FP100☐-X-ND	7.38	29.49	42.26	62.17	—	—
1-1/2 (38.10)	38.10	19.05	1.02	FP112☐-X-ND†	12.11	48.43	69.41	115.89	—	—
2 (50.80)	50.80	25.40	1.14	FP200☐-X-ND†	16.73	66.94	95.94	160.16	—	—

Note: For complete number, substitute ☐ with appropriate color (K = Black, C = Clear, B = Blue, G = Green, R = Red, W = White, Y = Yellow) and substitute "X" with length choice.
* Indicates size BEFORE shrinking occurs. † Not available in green.

FPC-KIT-ND ***Digi-Key® FP-301 Series Kit*** One 5 foot tubing of each color in the following series: FP364, FP116, FP332, FP018, FP316, FP014, FP038 and FP012 (55 pieces total of 8 sizes) **$62.95**

3M Heat Shrink Precut Lengths and Kits

FP-301 Series-Flexible Polyolefin: Shrink Temperature: 121°C **Color:** Black **Shrink Ratio:** 2:1 Tubing is split resistant, mechanically tough, easily marked and resist cold flow, for UL, CSA and Mil-I-23053/5 applications at 600V @ 125°C.

VFP-876 Series-Very Flexible Polyolefin: Shrink Temp.: 100°C **Color:** Black **Shrink Ratio:** 2:1. Most flexible of the heat shrinkable, polyolefin tubings. Ideal for jacketing and insulation of flexible wire bundles and sensitive components.

Tubing Size Diameter* x Length Inch (mm)	Expanded I.D. (Minimum) (mm)	Recovered I.D. (Maximum) (mm)	Nominal Recovered Wall Thick. (mm)	Digi-Key Part No.	Pricing (50 pcs./ bag) 1 Bag	5 Bags
FP-301 Series — Self-extinguishing						
3/64 x 1/2 (1.19 x 12.70)	1.19	0.58	0.41	FP364K-R50-ND	1.02	4.07
1/16 x 1/2 (1.59 x 12.70)	1.60	0.79	0.43	FP116K-R50-ND‡	1.04	4.15
3/32 x 1/2 (2.38 x 12.70)	2.38	1.19	0.51	FP332K-R50-ND‡	1.10	4.39
1/8 x 3/4 (3.18 x 19.05)	3.18	1.57	0.51	FP018K-R75-ND‡	1.58	6.32
3/16 x 3/4 (4.76 x 19.05)	4.76	2.38	0.51	FP316K-R75-ND‡	1.92	7.67
1/4 x 1 (6.35 x 25.40)	6.35	3.18	0.64	FP014K-1R0-ND‡	3.00	11.99
1/4 x 1-1/2 (6.35 x 38.10)	6.35	3.18	0.64	FP014K-1R5-ND‡	4.20	16.79
3/8 x 1-1/2 (9.53 x 38.10)	9.53	4.76	0.64	FP038K-1R5-ND	4.69	18.74
1/2 x 1-1/2 (12.70 x 38.10)	12.70	6.35	0.64	FP012K-1R5-ND	5.28	21.14
VFP-876 Series — Self-extinguishing						
3/64 x 1/2 (1.19 x 12.70)	1.19	0.58	0.41	VFP364-R50-ND	1.20	4.80
1/16 x 1/2 (1.59 x 12.70)	1.60	0.79	0.41	VFP116-R50-ND†	1.22	4.89
3/32 x 1/2 (2.38 x 12.70)	2.38	1.19	0.51	VFP332-R50-ND†	1.29	5.17
1/8 x 3/4 (3.18 x 19.05)	3.18	1.57	0.51	VFP018-R75-ND†	1.86	7.43
3/16 x 3/4 (4.76 x 19.05)	4.76	2.38	0.58	VFP316-R75-ND†	2.26	9.05
1/4 x 1 (6.35 x 25.40)	6.35	3.18	0.71	VFP014-1R0-ND†	3.53	14.12
1/4 x 1-1/2 (6.35 x 38.10)	6.35	3.18	0.71	VFP014-1R5-ND†	4.94	19.77
3/8 x 1-1/2 (9.53 x 38.10)	9.53	4.76	0.71	VFP038-1R5-ND	5.52	22.08
1/2 x 1-1/2 (12.70 x 38.10)	12.70	6.35	0.71	VFP012-1R5-ND	6.23	24.91

* Indicates size BEFORE shrinking occurs.

‡ **FP-KIT-ND** ***Digi-Key® FP-301 Series Kit*** 50 each of pieces denoted (Exception: FP116K-R50-ND has 100 pieces), 350 total pieces. Black. Plastic box and label card included **$15.95**

† **VFP-KIT-ND** ***Digi-Key® VFP-876 Series Kit*** 50 each of pieces denoted (Exception: VFP116-R50-ND has 100 pieces), 350 total pieces. Plastic box and label card included.. **$16.95**

tyco Electronics Raychem CIRCUIT PROTECTION

Terminals and Splices

CWT-900X Series - Solder Sleeve Wire Splices

Materials: • Insulation Sleeve: Heat-shrinkable, radiation cross-linked modified polyolefin. Transparent clear. • Solder Preform with Flux: *Solder:* Type CD18 per ANSI/J-STD-006 *Flux:* Type ROM1 per ANSI/J-STD-004

Application: These controlled soldering devices are designed to splice tin-plated or bare copper stranded wires rated for at least 85°C

Temperature Range: -55°C ~ 125°C

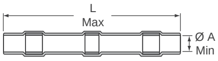

Size (AWG) Color	Dimensions Inch (mm) Length L (Max.)	Diameter A (Min.)	Digi-Key Part No.	Pricing 10	50	100	Raychem Part No.
24-20 (Clear)	1.025 (26.0)	.065 (1.7)	CWT9001-ND	9.48	42.39	69.83	CWT-9001
18-16 (Red)	1.655(42.0)	.105 (2.7)	CWT9002-ND	10.37	46.41	76.44	CWT-9002
16-12 (Blue)	1.655 (42.0)	.180 (4.5)	CWT9003-ND	10.93	48.88	80.50	CWT-9003

CWT-150X Series - Wire Termination to Pin, Post or Tab

Materials: • **Insulation Sleeve:** Heat-shrinkable, transparent clear, radiation cross-linked modified polyolefin • **Solder Preform with Flux:** *Solder:* Type Cd18 per ANSI-J-STD-006 *Flux:* Type ROM1 per ANSI-J-STD-004

Application: These controlled soldering devices are designed for termination of a wire to the lead of electrical component or to the terminal of a connector.

Temperature Range: -55°C ~ 125°C

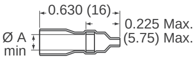

Dimensions Inch (mm) Diameter A (Min.)	Pin Diameter (Max.)	Digi-Key Part No.	Pricing 10	50	100	Raychem Part No.
.060 (1.5)	.025 (0.6)	CWT1501-ND	5.69	25.44	41.90	CWT-1501
.090 (2.3)	.035 (0.9)	CWT1502-ND	5.99	26.78	44.10	CWT-1502
.110 (2.8)	.045 (1.2)	CWT1503-ND	6.28	28.11	46.31	CWT-1503

Note: Please refer to data sheet for Post or Tab sizes

CWT-X-W122-5 Series - Shield Terminators

Materials: • **Insulation Sleeve:** Transparent heat-shrinkable radiation cross-linked modified polyolefin • Solder Preform with Flux: *Solder:* Type Cd18 per ANSI/J-STD-006 *Flux:* Type ROM1 per ANSI/J-STD-004 • **Ground Lead:** Raychem cross-linked polyethylene wire, AWG22, stranded tin plated copper • **Color:** Green

Application: These controlled soldering devices are designed for termination of a bare or tin-plated copper shield on a cable having an insulation rated for at least 85°C

Temperature Range: -55°C ~ 125°C

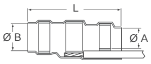

Dimensions Inch (mm) Diameter A (Min.)	Diameter B (Min.)	Length L (Max.)	Digi-Key Part No.	Pricing 10	50	100	Raychem Part No.
.098 (2.50)	.118 (3.00)	.965 (24.50)	CWT3W1225-ND	24.19	108.23	178.26	CWT-3-W122-5
.169 (4.30)	.189 (4.80)	1.154 (29.30)	CWT5W1225-ND	24.64	110.22	181.55	CWT-5-W122-5
.252 (6.40)	.287 (7.30)	1.280 (32.50)	CWT7W1225-ND	26.63	119.15	196.25	CWT-7-W122-5

S01-0X-R Series - Shield Terminators

Materials: • **Insulation Sleeve:** Heat-shrinkable, transparent blue, radiation cross-linked modified polyvinylidence fluoride • Solder Preform with Flux and Thermal Indicator: *Solder:* Type Sn63 per ANSI-J-STD-006 *Flux:* Type ROL1 per ANSI-J-STD-004 • **Thermal Indicator:** Color change: violet to colorless **Application:** • These parts are designed to make an environment resistant shield termination • **Jacket Rating:** 125°C • Parts are qualified to M83519/1

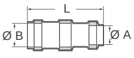

Dimensions Inch (mm) Diameter A (Min.)	Diameter B (Min.)	Length L (Nom.)	Digi-Key Part No.	Pricing 10	50	100	Raychem Part No.
.075 (1.90)	.105 (2.65)	.65 (16.5)	S0101R-ND	58.42	261.33	430.43	S01-01-R
.105 (2.65)	.145 (3.68)	.65 (16.5)	S0102R-ND	57.63	257.83	424.66	S01-02-R
.170 (4.30)	.200 (5.08)	.65 (16.5)	S0103R-ND	60.96	272.72	449.19	S01-03-R
.235 (5.95)	.255 (6.45)	.75 (19.1)	S0104R-ND	72.53	324.49	534.45	S01-04-R
.275 (7.00)	.300 (7.60)	.75 (19.1)	S0105R-ND	84.20	376.68	620.41	S01-05-R

D-406 Series - Closed Barrel / Crimp Splice

Materials: • **Insulation Sleeve:** Heat shrinkable, radiation cross-linked polyamide (nylon) with a polyamide-based hot-melt adhesive liner. Color per table. • **Crimp Splice:** Tin-plated copper alloy

• **Application:** These parts may be used to obtain an environment-resistant one-to-one in-line (butt) splice in wires meeting the size range and diameter restraints specified herein and having a temperature rating of not less than 85°C.

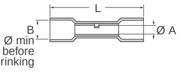

(AWG) Color	Dimensions Inch (mm) Diameter A (Min.)	Diameter B (Min.)	Length L (Nom.)	Digi-Key Part No.	Pricing 10	50	100	Raychem Part No.
18-22 (Red)	.058 (1.47)	.146 (3.70)	1.24 (31.5)	D4060001-ND	11.11	49.68	81.83	D-406-0001
14-16 (Blue)	.092 (2.33)	.181 (4.60)	1.24 (31.5)	D4060002-ND	11.11	49.68	81.83	D-406-0002
10-12 (Yellow)	.138 (3.50)	.255 (6.50)	1.48 (37.5)	D4060003-ND	15.07	67.41	111.02	D-406-0003

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Heat Shrink Tubing

TAT-125 Series - Flexible, Adhesive-lined, Polyolefin

• **Minimum Shrink Temperature:** 95°C • **Minimum Full Recovery Temperature:** 121°C • **Operating Temperature:** -55°C ~ 110°C • **Color:** Black • **Shrink Ratio:** 2:1 Thin-wall, flame retardant one step electrical insulation and moisture sealing for a wide variety of applications. UL Recognized file No. E85381 at 600V, 125°C

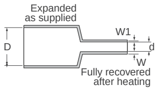

Tubing Size Dia.* In. (mm)	Expand. D (Min.) (mm)	Recov. d (Max.) (mm)	Nominal Recov. (W) Wall Thick (mm)	Meltable † Recov. (W1) Wall Thick (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
1/8 (3.18)	3.20	1.6	.68	.23	TAT018K-ND	6.33	10.97	24.25	50.61	84.35
3/16 (4.78)	4.70	2.4	.71	.25	TAT316K-ND	7.69	13.33	29.49	61.55	102.58
1/4 (6.35)	6.40	3.2	.74	.13	TAT014K-ND	9.64	16.70	36.94	77.09	128.48
3/8 (9.52)	9.50	4.7	.74	.13	TAT038K-ND	10.76	18.65	41.25	86.09	143.49
1/2 (12.70)	12.70	6.4	.76	.15	TAT012K-ND	13.38	23.19	51.28	107.01	178.35
3/4 (19.05)	19.1	9.5	.89	.15	TAT034K-ND	17.81	30.87	68.26	142.46	237.44
1 (25.40)	25.4	12.7	1.07	.20	TAT001K-ND	26.63	46.16	102.09	213.06	355.10
1 1/2 (38.1)	38.1	19.1	1.19	.28	TAT112K-ND	47.30	81.99	181.32	378.41	630.69

† Wall thickness will be less if tubing recovery is restricted during shrinkage * Size before shrinking

ATUM Series - High Expansion Ratio, Adhesive-lined

• **Minimum Shrink Temperature:** 80°C • **Minimum Full Recovery Temperature:** 125°C • **Operating Temperature:** -55°C ~ 110°C • **Color:** Black • **Shrink Ratio:** 3:1 Provides environmental sealing in a wide variety of electrical applications and has an internal adhesive coating that, when heated, melts and flows to form a positive seal. Bonds to a wide variety of plastics, rubbers, and metals, including PVC, polyethylene, rubber, and aluminum. UL Recognized file No. E85381 at 600V, 110°C

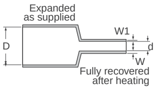

Tubing * Size (mm)	Expand. D (Min.) (mm)	Recov. d (Max.) (mm)	Recov. (W) Wall Thick (mm)	Meltable † Recov. (W1) Wall Thick (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
3	3	1	1.00	.50	ATU031K-ND	13.38	23.20	51.31	107.08	178.46
6	6	2	1.00	.50	ATU062K-ND	20.37	35.31	78.09	162.97	271.62
9	9	3	1.40	.61	ATU093K-ND	22.49	38.98	86.20	179.89	299.82
12	12	4	1.78	.76	ATU124K-ND	26.77	46.40	102.62	214.16	356.93
19	19	6	2.25	.76	ATU196K-ND	37.48	64.96	143.66	299.81	499.68
24	24	8	2.54	1.00	ATU248K-ND	52.20	90.48	200.10	417.59	695.98
40	40	13	2.54	1.00	ATU4013K-ND	85.51	148.22	327.80	684.10	1140.16

† Wall thickness will be less if tubing recovery is restricted during shrinkage * Size before shrinking

HFT5000 Series - Heat Shrinkable Fabric Tubing

• **Minimum Shrink Temperature:** 80°C • **Minimum Full Recovery Temperature:** 110°C • **Operating Temperature:** 3000 hours: -40°C ~ 125°C 1000 hours: -40°C ~ 150°C • **Color:** Black • **Shrink Ratio:** 2:1 • **Flammability:** Meets MVSS302 horizontal burn test • **Warp Material:** Polyester • **Weft Material:** Irradiated, modified polyolefin • **Coating:** Modified polyolefin. Very flexible heat-shrinkable fabric material. Heated above 110°C, they shrink and fit snugly and securely around the underlying substrate. Designed primarily to provide mechanical abrasion protection for components such as rubber hoses, plastic pipes and harness wiring bundles, they are also suitable for other applications, such as noise and rattle suppression.

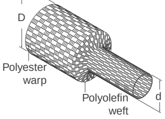

Minimum Supplied (D) (mm)	Maximum Recovered (d) (mm)	Digi-Key Part No.	Spool Size (Meters)	Price per Spool (1 Spool per Box)	Raychem Part No.
20	10	HFT2010-400-ND	400	976.06	HFT5000-20/10-0-SP
30	15	HFT3015-400-ND	400	1195.65	HFT5000-30/15-0-SP
40	20	HFT4020-300-ND	300	1085.86	HFT5000-40/20-0-SP
50	25	HFT5025-200-ND	200	886.59	HFT5000-50/25-0-SP
60	30	HFT6030-200-ND	200	963.84	HFT5000-60/30-0-SP
70	35	HFT7035-150-ND	150	994.37	HFT5000-70/35-0-SP

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tyco Electronics

Raychem CIRCUIT PROTECTION

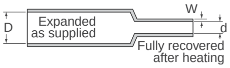

Heat Shrink Tubing *(Cont.)*

RW-175, RNF-100, NT-MIL, Versafit Series

RW-175 Series-Thin-wall, Semirigid, Fluoropolymer: • **Shrink Temperature:** 155°C • **Color:** Clear • **Shrink Ratio:** 2:1 • **Full Recovery Temperature:** 175°C • **Operating Temperature:** -55°C ~ 175°C

• UL Recognized (File No. E35586 VW-1) and CSA (LR31929OFT) Suitable for applications requiring high-temperature performance, outstanding abrasion and cut-through resistance, or superior chemical and solvent properties. The translucent polyvinylidene fluoride material permits visual inspection of covered components

RNF-100 Series-Flexible, Flame-retardant, High Performance Polyolefin: • **Shrink Temperature:** 95°C • **Color:** Black • **Shrink Ratio:** 2:1 • **Full Recovery Temperature:** 121°C • **Operating Temperature:** -55°C ~ 135°C

• UL Recognized (File No. E35586) and CSA (LR31929) High-quality, heat-shrinkable product for a wide variety of uses. It has become the industry standard for insulation, strain relief, wire bundling, and color-coding in both commercial and military applications. Excellent physical, chemical and electrical properties that meet industrial and military requirements for a highly reliable, general-purpose tubing.

NT-MIL Series-Flexible, Rugged, Modified Elastomer: • **Shrink Temperature:** 90°C • **Color:** Black • **Shrink Ratio:** 1.75:1 • **Full Recovery Temperature:** 135°C • **Operating Temperature:** -70°C ~ 121°C.

• Offers outstanding resistance to abrasion and physical abuse while providing flexibility and strain relief needed in many harnessing applications. It meets the stringent requirements of AMS-DTL-23053/1, Classes 1 and 2.

Versafit Series-Highly Flame-retardant, Low Recovery Temperature: • **Shrink Temperature:** 70°C • **Color:** Black • **Shrink Ratio:** 2:1 • **Full Recovery Temperature:** 90°C • **Operating Temperature:** -55°C ~ 135°C

• UL Recognized (File No. E35586 VW-1) and CSA (LR31929OFT) at 600V, 125°C Cost-effective for commercial and military applications. It is made from a specially formulated, cross-linked polyolefin to provide high flame-retardance, excellent flexibility, and low shrink temperature (to reduce installation time).

Tubing Size Diameter* Inch (mm)	Expand. (D) (Min.) (mm)	Recov. (d) (Max.) (mm)	Nominal † Recov'd (W) Wall Thick. (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
RW-175 Series - Thin wall, Semirigid, Fluoropolymer									
3/64 (1.19)	1.2	0.6	0.25	RW364C-ND	4.59	7.95	17.58	36.69	61.15
1/16 (1.60)	1.6	0.8	0.25	RW116C-ND	4.82	8.35	18.46	38.53	64.22
3/32 (2.38)	2.4	1.2	0.25	RW332C-ND	5.35	9.27	20.51	42.80	71.33
1/8 (3.18)	3.2	1.6	0.25	RW018C-ND	5.83	10.11	22.35	46.65	77.74
3/16 (4.78)	4.7	2.4	0.25	RW316C-ND	9.09	15.76	34.85	72.74	121.23
1/4 (6.35)	6.4	3.2	0.33	RW014C-ND	11.45	19.85	43.89	91.60	152.67
3/8 (9.52)	9.5	4.7	0.33	RW038C-ND	13.76	23.85	52.75	110.08	183.47
1/2 (12.70)	12.7	6.4	0.33	RW012C-ND	24.59	42.63	94.28	196.75	327.92
3/4 (19.05)	19.1	9.5	0.43	RW034C-ND	45.25	78.43	173.45	361.99	603.31
RNF-100 Series - Flexible, Flame-retardant, High Performance Polyolefin									
3/64 (1.19)	1.2	0.6	0.40	RNF364K-ND	1.72	2.98	6.60	13.77	22.94
1/16 (1.60)	1.6	0.8	0.43	RNF116K-ND	1.77	3.06	6.77	14.12	23.54
3/32 (2.38)	2.4	1.2	0.51	RNF332K-ND	1.86	3.23	7.15	14.92	24.86
1/8 (3.18)	3.2	1.6	0.51	RNF018K-ND	2.00	3.47	7.66	15.99	26.66
3/16 (4.78)	4.7	2.4	0.51	RNF316K-ND	2.43	4.21	9.32	19.44	32.40
1/4 (6.35)	6.4	3.2	0.64	RNF014K-ND	3.05	5.28	11.67	24.36	40.61
3/8 (9.52)	9.5	4.8	0.64	RNF038K-ND	3.41	5.91	13.06	27.25	45.42
1/2 (12.70)	12.7	6.4	0.64	RNF012K-ND	4.24	7.34	16.24	33.90	56.50
3/4 (19.05)	19.1	9.5	0.76	RNF034K-ND	5.68	9.84	21.76	45.41	75.68
1 (25.4)	25.4	12.7	0.89	RNF001K-ND	8.64	14.98	33.12	69.12	115.20
1 1/2 (38.1)	38.1	19.1	1.02	RNF112K-ND	18.18	31.52	69.71	145.48	242.46
2 (50.8)	50.8	25.4	1.14	RNF002K-ND	22.51	39.02	86.30	180.11	300.18
3 (76.2)	76.2	38.1	1.27	RNF003K-ND	56.76	98.38	217.57	454.05	756.75
4 (101.6)	101.6	50.8	1.40	RNF004K-ND	94.59	163.96	362.61	756.76	1261.26

Tubing Size Diameter* Inch (mm)	Expand. (D) (Min.) (mm)	Recov. (d) (Max.) (mm)	Nominal † Recov'd (W) Wall Thick. (mm)	Digi-Key Part No.	Spool Size (Feet)	Price Per Spool	Raychem Part No.
RNF-100 Series - Flexible, Flame-retardant, High Performance Polyolefin							
3/64 (1.19)	1.2	0.6	0.40	RNF364K-100-ND	100	19.66	RFN-100-MINI-SPL-3/64-BK
1/16 (1.60)	1.6	0.8	0.43	RNF116K-75-ND	75	19.66	RFN-100-MINI-SPL-1/16-BK
3/32 (2.38)	2.4	1.2	0.51	RNF332K-65-ND	65	19.66	RFN-100-MINI-SPL-3/32-BK
1/8 (3.18)	3.2	1.6	0.51	RNF018K-60-ND	60	19.66	RFN-100-MINI-SPL-1/8-BK
3/16 (4.78)	4.7	2.4	0.51	RNF316K-50-ND	50	19.66	RFN-100-MINI-SPL-3/16-BK
1/4 (6.35)	6.4	3.2	0.64	RNF014K-40-ND	40	19.66	RFN-100-MINI-SPL-1/4-BK
3/8 (9.52)	9.5	4.8	0.64	RNF038K-35-ND	35	19.66	RFN-100-MINI-SPL-3/8-BK
1/2 (12.70)	12.7	6.4	0.64	RNF012K-30-ND	30	19.66	RFN-100-MINI-SPL-1/2-BK
3/4 (19.05)	19.1	9.5	0.76	RNF034K-25-ND	25	19.66	RFN-100-MINI-SPL-3/4-BK
1 (25.4)	25.4	12.7	0.89	RNF001K-15-ND	15	19.66	RFN-100-MINI-SPL-1-BK
NT-MIL Series - Flexible, Rugged, Modified Elastomer							
1/4 (6.35)	6.4	3.6	0.89	NT014K-150-ND	150	176.02	NT-MIL-1/4-0-SP
3/8 (9.52)	9.5	5.4	1.01	NT038K-150-ND	150	191.23	NT-MIL-3/8-0-SP
1/2 (12.70)	12.7	7.3	1.21	NT012K-150-ND	150	211.56	NT-MIL-1/2-0-SP
1 (25.4)	25.4	14.5	1.77	NT001K-100-ND	100	246.16	NT-MIL-1-0-SP
Versafit - Highly Flame-retardant, Low Recovery Temperature							
3/64 (1.19)	1.63	0.6	0.40	VER364K-100-ND	100	19.26	VERSAFIT-MINI-SPL-3/64-BK
1/16 (1.60)	1.85	0.8	0.43	VER116K-75-ND	75	19.26	VERSAFIT-MINI-SPL-1/16-BK
3/32 (2.38)	2.79	1.2	0.51	VER332K-65-ND	65	19.26	VERSAFIT-MINI-SPL-3/32-BK
1/8 (3.18)	3.43	1.6	0.51	VER018K-60-ND	60	19.26	VERSAFIT-MINI-SPL-1/8-BK
3/16 (4.78)	5.21	2.4	0.51	VER316K-50-ND	50	19.26	VERSAFIT-MINI-SPL-3/16-BK
1/4 (6.35)	7.11	3.2	0.64	VER014K-40-ND	40	19.26	VERSAFIT-MINI-SPL-1/4-BK
3/8 (9.52)	10.16	4.8	0.64	VER038K-35-ND	35	19.26	VERSAFIT-MINI-SPL-3/8-BK
1/2 (12.70)	13.72	6.4	0.64	VER012K-30-ND	30	19.26	VERSAFIT-MINI-SPL-1/2-BK
3/4 (19.05)	20.45	9.5	0.76	VER034K-25-ND	25	19.26	VERSAFIT-MINI-SPL-3/4-BK
1 (25.4)	25.53	12.7	0.89	VER001K-15-ND	15	19.26	VERSAFIT-MINI-SPL-1-BK

† Wall thickness will be less if tubing recovery is restricted during shrinkage * Size before shrinking

Versafit Heat Shrink Tubing Kits

VERSA1-KIT-ND 3/16" 30 pcs., 1/4" 28 pcs., 3/8" 24 pcs., 1/2" 20 pcs., 3/4" 14 pcs., 1" 10 pcs., Black........... **$65.68**

Refill parts:

VER316K-ND 3/16" 30 pcs., Black.................... **$8.22**
VER014K-ND 1/4" 28 pcs., Black..................... **$8.22**
VER038K-ND 3/8" 24 pcs., Black..................... **$8.22**
VER012K-ND 1/2" 20 pcs., Black.................. **$8.22**
VER034K-ND 3/4" 14 pcs., Black.................. **$8.22**
VER001K-ND 1" 10 pcs., Black..................... **$8.22**

VERSA2-KIT-ND Color Kit includes Red, Black, Yellow, Clear, White, Green and Blue tubing.
3/32" 35 pcs. (5 of each color), 1/8" 28 pcs. (4 of each color), 3/16" 21 pcs. (3 of each color),
1/4" 21 pcs. (3 of each color), 3/8" 14 pcs. (2 of each color), 1/2" 14 pcs. (2 of each color) **$70.04**

VERSA4-KIT-ND 3/16", 1/4", 3/8", 1/2", 3/4" and 1" 18 pcs. (3 pcs. of each size), Black **$8.22**

VERSA6-KIT-ND 3/64", 1/16", 3/32" and 1/8" 24 pcs. (6 pcs. of each size), Black **$8.22**

Note: All kits have 6" pieces

DABURN

Shrinkable Tubing Black Polyolefin

The most widely used, general purpose heat shrinkable tubing. An irradiated flexible, flame-retardant polyolefin tubing with a wide scope of applications. These include: harnessing, wire bundling, strain reliefs, or any application where components or cables must be insulated or packaged. • UL E-38155 •-CSA LR-31929 •-MIL-I-23053/5A •-MSFC-276B •-AMS 3636B

• **Operating Temperature:** –55°C ~ 135°C • **Shrinkage Ratio:** To 50% of supplied diameter at 121°C • **Electrical Properties:** Dielectric Strength: 1300 V/mil (512 kV/cm). Volume Resistivity: 10^{15} Ω-cm.

• **Physical Properties:** Tensile Strength: 2500 PSI, nominal (176 kg/cm^2). Ultimate Elongation: 400% nominal.

DABURN Shrink Tubing
Digi-Key®
Assortment Kit
Contains the following:
5 ft./W181-ND 5 ft./W184-ND
5 ft./W182-ND 5 ft./W185-ND
5 ft./W183-ND 5 ft./W186-ND
STA-KIT-ND........ **$10.95**

Minimum Supp. I.D. Inch (mm)	Maximum Recov. I.D. Inch (mm)	Nom. Recov'd Wall Thick. Inch (mm)	Digi-Key Part No.	(NOTE: "X" in Digi-Key Part No. Represents No. of Feet) Price Per Length 5'	25'	50'	100'
.06 (1.60)	.03 (.78)	.017 (.43)	W181-X-ND	2.27	10.12	18.12	32.62
.09 (2.36)	.05 (1.17)	.020 (.50)	W182-X-ND	2.39	10.67	19.11	—
.13 (3.18)	.06 (1.58)	.020 (.50)	W183-X-ND	2.55	11.39	20.40	36.71
.19 (4.75)	.09 (2.36)	.020 (.50)	W184-X-ND	3.03	13.55	24.26	43.68
.25 (6.35)	.13 (3.18)	.025 (.63)	W185-X-ND	3.98	17.78	31.85	57.33
.38 (9.53)	.19 (4.75)	.025 (.63)	W186-X-ND	4.19	18.72	33.53	60.35
.50 (12.7)	.25 (6.35)	.025 (.63)	W187-X-ND	4.78	21.34	38.21	68.78
.75 (19.1)	.38 (9.53)	.030 (.76)	W188-X-ND	6.45	28.79	51.56	92.81
1.0 (25.4)	.50 (12.70)	.035 (.88)	W189-X-ND†	9.89	44.19	79.16	131.93
3.0 (76.2)	1.5 (38.10)	.050 (1.27)	W192-X-ND†	43.37	195.17	325.29	—
4.0 (101.6)	2.0 (50.80)	.055 (1.40)	W193-X-ND†	51.49	231.71	424.79	—

NOTE: Longer lengths available, call Digi-Key † Available only in listed lengths.

Irradiated Polyolefin Heat Shrink

DAFLEX SH277 shrinkable irradiated polyolefin tubing is flame retardant and will withstand up to 300°C (572°F) for short durations and can be hot stamped.

Specifications: • **Shrink Ratio**: 4:1 • **Longitudinal Shrinkage**: 10% maximum • **Shrink Temperature**: 120°C (250°F) • **Continuous Operation Temperature**: -55°C ~ 135°C • Meets or exceeds MIL-I-23053/5 Class 1 and 3

Description	Minimum Supplied I.D. Inch (mm)	Maximum Recovery I.D. Inch (mm)	Nominal Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
1" x 4' Black	1.0 (25.4)	.26 (6.5)	.060 (1.5)	W203-ND	62.28	83.04	186.84	373.68	674.70
2" x 4' Black	2.0 (50.8)	.50 (12.7)	.060 (1.5)	W204-ND	87.00	116.00	261.00	522.00	942.50

Polyolefin Heat Shrink

DAFLEX SM278 is a flexible, large ratio, heat shrinkable tubing with a meltable adhesive liner. As the outer wall shrinks, the inner adhesive liner melts and flows. When cooled, it offers protection for a variety of electrical applications as well as "sealed-in" protection from chemicals and oils.

Specifications: • **Shrink Ratio**: 4:1 • **Longitudinal Shrinkage**: 10% maximum • **Shrink Temperature**: 120°C (250°F) • **Continuous Operation Temperature**: -55°C ~ 135°C • Meets or exceeds MIL-I-23053/4 Class 3 • UL VW-1, CSA OFT (outer wall only) • Dual Wall

Description	Minimum Supplied I.D. Inch (mm)	Maximum Recovery I.D. Inch (mm)	Nominal Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	(NOTE: "X" in Digi-Key Part No. Represents No. of Feet) Price Per Length 5'	25'	50'	100'	200'
3/16" Black	.16 (4)	.04 (1)	.035 (.9)	W207-X-ND	9.25	39.54	67.30	114.41	212.56
5/16" Black	.315 (8)	.079 (2)	.035 (.9)	W208-X-ND	15.53	66.36	112.95	192.02	356.70

Description	Minimum Supplied I.D. Inch (mm)	Maximum Recovery I.D. Inch (mm)	Nominal Recovered Wall Thickness Inch (mm)	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1pc.)	8' (2pc.)	20' (5pc.)	48' (12pc.)	100' (25pc.)
1/2" Black	.47 (12)	.12 (3)	.051 (1.3)	W206-ND	11.74	22.30	52.81	119.71	231.60
3/4" Black	.63 (16)	.16 (4)	.063 (1.6)	W209-ND	13.96	26.52	62.82	142.39	275.55
1" Black	.94 (24)	.24 (6)	.083 (2.1)	W205-ND	22.46	42.68	101.09	229.13	443.40
1 1/4" Black	1.26 (32)	.31 (8)	.091 (2.3)	W210-ND	27.88	52.97	125.46	284.38	550.25

(Continued)

DABURN Shrinkable Tubing Black Polyolefin *(Cont.)*

Butyl Rubber Shrink Tape

DAFLEX ST250 cold shrinking Stretch-N-Seal tape requires no heat to provide a secure covering where the size and/or shape of an object does not permit the use of shrinkable tubing. Simply remove 2" to 3" of tape from the roll, remove the liner, stretch tape to 50% of the supplied width and wrap it spirally around the object, with 50% overlap. In minutes the tape will react with itself to form a mass which will provide protection from moisture, most chemicals, over 1KV per mil. DAFLEX ST250 can be removed easily without leaving any residue since the tape does not use a mastic or adhesive liner. Shelf life is over 5 years. It is helpful for covering, sealing, splicing, holding bundles, joining and repair applications.

Specifications: • **Operating Temperature:** -40°C ~ 130°C • UL Approved for 100°C

Description	Nominal Width Inch (mm)	Nominal Thickness Inch (mm)	Roll Length Feet	Digi-Key Part No.	Pricing 1	5	10
Black	1.0 (25.4)	.0195 (0.50)	16	W211-ND	14.90	67.05	124.97
Black	1.0 (25.4)	.0195 (0.50)	8	W213-ND	8.50	38.25	70.35
Black	1.5 (38.1)	.0195 (0.50)	8	W215-ND	10.00	45.00	85.00
Black	1.5 (38.1)	.0195 (0.50)	16	W216-ND	17.00	76.50	144.50
Black	2.0 (50.8)	.0195 (0.50)	16	W217-ND	22.76	102.42	193.46

Qualtek ELECTRONICS CORP.

Heat Shrink Tubing

Dual Wall, Adhesive-Lined Flexible Polyolefin Tubing

Q5-2X and Q5-3X Series

Features: • Designed to provide both insulation and sealing for protection against water and moisture of auto wires, shipping cables, metal tubes and bundled wires.

Specifications: • **Operating Temperature:** -45°C ~ 125°C • **Full Recovery Temperature:** 125°C • **Approvals:** UL 224: 125°C, 600V, File No. E236137 • **Shrink Ratio:** Q5-2X Series: 2:1 - Q5-3X Series: 3:1 • **Color:** Black • **RoHS Compliant**

Tubing Dia.* (Inch)	As Supplied (mm) Inside Diameter Minimum	After Recovered (mm) Inside Diameter Maximum	Wall Thickness Nominal	Adhesive Thickness Nominal	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1 pc.)	8' (2 pc.)	20' (5 pc.)
Q5-2X Series								
1/8	3.2	1.60	0.70	0.20	Q52X018B-ND	1.27	2.20	4.86
3/16	4.8	2.40	0.70	0.20	Q52X316B-ND	1.52	2.64	5.84
1/4	6.4	3.20	0.75	0.20	Q52X014B-ND	1.86	3.23	7.13
3/8	9.5	4.80	0.75	0.20	Q52X038B-ND	2.54	4.40	9.73
1/2	12.7	6.40	0.75	0.20	Q52X012B-ND	3.47	6.01	13.29
3/4	19.1	9.50	0.90	0.20	Q52X034B-ND	5.67	9.83	21.74
1	25.4	12.70	1.10	0.20	Q52X100B-ND	8.38	14.52	32.11
1 1/2	38.1	19.00	1.10	0.20	Q52X112B-ND	13.96	24.19	53.50
Q5-3X Series								
1/8	3.0	0.60	1.00±0.10	0.50	Q53X018B-ND	1.27	2.20	4.86
3/16	4.8	1.50	1.10±0.10	0.50	Q53X316B-ND	1.52	2.64	5.84
1/4	6.0	2.00	1.20±0.10	0.50	Q53X014B-ND	1.86	3.23	7.13
3/8	9.0	3.00	1.30±0.10	0.60	Q53X038B-ND	2.54	4.40	9.73
1/2	12.0	4.00	1.70±0.15	0.80	Q53X012B-ND	3.89	6.75	14.93
3/4	19.0	6.00	2.00±0.20	0.80	Q53X034B-ND	6.17	10.70	23.67
1	24.0	8.00	2.20±0.20	1.05	Q53X100B-ND	9.73	16.86	37.28
1 1/4	30.0	10.00	2.40±0.20	1.05	Q53X114B-ND	11.68	20.24	44.76
1 1/2	40.0	13.00	2.50±0.20	1.05	Q53X112B-ND	13.63	24.12	52.44
2	50.0	19.00	2.50±0.20	1.05	Q53X200B-ND	19.57	34.63	75.28

Tubing Dia.* (Inch) x Length	As Supplied (mm) Inside Diameter Minimum	After Recovered (mm) Inside Diameter Maximum	Wall Thickness Nominal	Adhesive Thickness Nominal	Digi-Key Part No.	Price Each
Q5-2X Series						
1/8 x 200	3.2	1.60	0.70	0.20	Q52X018B-200M-ND	104.72
3/16 x 100	4.8	2.40	0.70	0.20	Q52X316B-100M-ND	62.83
1/4 x 100	6.4	3.20	0.75	0.20	Q52X014B-100M-ND	76.80
3/8 x 50	9.5	4.80	0.75	0.20	Q52X038B-50M-ND	52.37
1/2 x 25	12.7	6.40	0.75	0.20	Q52X012B-25M-ND	35.78
3/4 x 25	19.1	9.50	0.90	0.20	Q52X034B-25M-ND	58.48
1 x 25	25.4	12.70	1.10	0.20	Q52X100B-25M-ND	86.40
1 1/2 x 25	38.1	19.00	1.10	0.20	Q52X112B-25M-ND	144.00
Q5-3X Series						
1/8 x 200	3.0	0.60	1.00±0.10	0.50	Q53X018B-200M-ND	104.72
3/16 x 100	4.8	1.50	1.10±0.10	0.50	Q53X316B-100M-ND	62.83
1/4 x 100	6.0	2.00	1.20±0.10	0.50	Q53X014B-100M-ND	76.80
3/8 x 50	9.0	3.00	1.30±0.10	0.60	Q53X038B-50M-ND	52.37
1/2 x 25	12.0	4.00	1.70±0.15	0.80	Q53X012B-25M-ND	40.14
3/4 x 25	19.0	6.00	2.00±0.20	0.80	Q53X034B-25M-ND	63.71
1 x 25	24.0	8.00	2.20±0.20	1.05	Q53X100B-25M-ND	100.37
1 1/4 x 25	30.0	10.00	2.40±0.20	1.05	Q53X114B-25M-ND	120.43
1 1/2 x 25	40.0	13.00	2.50±0.20	1.05	Q53X112B-25M-ND	162.32
2 x 25	50.0	19.00	2.50±0.20	1.05	Q53X200B-25M-ND	233.02

* Size before shrinking

Polyolefin Heat Shrink Tubing

Q2-Z Series

Features: • Environmentally friendly flame retardant shrink tubing • Good flexibility and superior mechanical strength in such fields as electronics, communication and automobile
Specifications: • **Operating Temperature:** -55°C ~ 125°C • **Full Recovery Temperature:** 100°C • **Shrink Ratio:** 2:1 • **Approvals:** UL 224: 125°C, 600V, VW-1, File No. E236137 • **Material:** No PBB's, PBBO's, PBBE's • **Cadmium Content:** <5 ppm • **Lead Content:** <10 ppm • **Standard Color:** Black • **RoHS Compliant**

Normal Tubing Size Diameter* (Inch) x Length (Feet)	As Supplied (mm) Inside Diameter Minimum	After Recovered (mm) Inside Diameter Maximum	Wall Thickness Minimum	Digi-Key Part No.	Price Each
3/64 x 100 3/64 x 1000	1.6±0.2	0.60	0.33	Q2Z364B-100-ND Q2Z364B-1000-ND	5.91 32.99
1/16 x 100 1/16 x 1000	2.0±0.2	0.80	0.36	Q2Z116B-100-ND Q2Z116B-1000-ND	6.10 34.05
3/32 x 100 3/32 x 500	3.1±0.2	1.20	0.44	Q2Z332B-100-ND Q2Z332B-500-ND	6.29 17.55
1/8 x 100 1/8 x 500	3.7±0.3	1.60	0.44	Q2Z018B-100-ND Q2Z018B-500-ND	6.86 19.15
3/16 x 100 3/16 x 500	5.2±0.3	2.40	0.51	Q2Z316B-100-ND Q2Z316B-500-ND	10.29 28.74
1/4 x 100 1/4 x 500	6.8±0.3	3.20	0.56	Q2Z014B-100-ND Q2Z014B-500-ND	12.18 34.05
5/16 x 100 5/16 x 250	8.8±0.3	4.00	0.56	Q2Z516B-100-ND Q2Z516B-250-ND	14.10 23.14
3/8 x 100 3/8 x 250	10.7±0.4	4.80	0.56	Q2Z038B-100-ND Q2Z038B-250-ND	14.74 24.21
1/2 x 100 1/2 x 200	13.7±0.4	6.40	0.65	Q2Z012B-100-ND Q2Z012B-200-ND	19.94 26.18
5/8 x 50 5/8 x 200	16.7±0.4	8.00	0.69	Q2Z058B-50-ND Q2Z058B-200-ND	13.71 35.97
3/4 x 50 3/4 x 200	20.5±0.4	9.50	0.80	Q2Z034B-50-ND Q2Z034B-200-ND	17.60 46.18
1 x 50 1 x 200	26.5±0.4	12.70	0.90	Q2Z100B-50-ND Q2Z100B-200-ND	22.77 59.79
1 1/4 x 50 1 1/4 x 100	33.5±0.70	15.90	1.02	Q2Z114B-50-ND Q2Z114B-100-ND	24.02 45.76
1 1/2 x 50 1 1/2 x 100	41.0±0.80	19.10	1.02	Q2Z112B-50-ND Q2Z112B-100-ND	34.08 64.91
2 x 50 2 x 100	52.0±1.0	25.40	1.14	Q2Z200B-50-ND Q2Z200B-100-ND	44.13 84.06
3 x 100	82.0±1.0	38.10	1.27	Q2Z300B-100-ND	187.26
4 x 100	104.0±1.0	50.80	1.40	Q2Z400B-100-ND	237.28
5 x 50	126.0±1.0	63.50	1.50	Q2Z500B-50-ND	321.34
6 x 50	152.0±1.0	76.00	1.50	Q2Z600B-50-ND	463.92

* Size before shrinking

Heat Shrink Kits

Q2-Z Series

Q2Z1-KIT-ND - Heat Shrink Kit 1
RoHS Compliant. Includes: 180 Pieces, 6" Lengths
3/64" (40 pcs.), 1/16" (36 pcs.), 3/32" (32 pcs.), 1/8" (28 pcs.), 3/16" (24 pcs.), 1/4" (20 pcs.) **$20.18**

Q2Z2-KIT-ND - Heat Shrink Kit 2
RoHS Compliant. Includes: 82 Pieces, 6" Lengths
5/16" (18 pcs.), 3/8" (16 pcs.), 1/2" (14 pcs.), 5/8" (14 pcs.), 3/4" (12 pcs.), 1" (8 pcs.) **$27.50**

Modified Thin Wall Flexible Kynar® (PVDF) Heat Shrink Tubing

Q-150K Series

Features: • Excellent flame retardant heat shrinkable polyvinylidence fluoride tubing • Outstanding abrasion and cut-through resistance • Superior chemical and solvent resistant properties • Available in clear and black
Specifications: • **Operating Temperature:** -55°C ~ 150°C • **Full Recovery Temperature:** 175°C • **Shrink Ratio:** 2:1 • **Approvals:** UL 224: 150°C, 600V, File No. E245010 • **RoHS Compliant**

Tubing Dia.* (Inch)	As Supplied (mm) Inside Diameter Minimum	After Recovered (mm) Inside Diameter Maximum	Wall Thickness	Color	Digi-Key Part No.	Sold in 4' Lengths Only 4' (1 pc.)	8' (2 pc.)	20' (5 pc.)
3/64	1.2	0.60	0.25±0.05	Clear Black	QKY364C-ND QKY364B-ND	1.30 1.48	2.26 2.56	5.00 5.67
1/16	1.6	0.80	0.25±0.05	Clear Black	QKY116C-ND QKY116B-ND	1.48 1.65	2.56 2.86	5.67 6.33
3/32	2.4	1.20	0.27±0.04	Clear Black	QKY332C-ND QKY332B-ND	1.91 2.09	3.32 3.62	7.34 8.00
1/8	3.2	1.60	0.27±0.04	Clear Black	QKY018C-ND QKY018B-ND	2.26 2.52	3.92 4.37	8.67 9.67
3/16	4.8	2.40	0.27±0.04	Clear Black	QKY316C-ND QKY316B-ND	3.22 3.57	5.58 6.18	12.34 13.67
1/4	6.4	3.20	0.33±0.05	Clear Black	QKY014C-ND QKY014B-ND	4.00 4.35	6.93 7.54	15.34 16.67
3/8	9.5	4.80	0.33±0.05	Clear Black	QKY038C-ND QKY038B-ND	5.91 6.61	10.25 11.46	22.67 25.34
1/2	12.7	6.40	0.33±0.05	Clear Black	QKY012C-ND QKY012B-ND	8.00 8.87	13.87 15.38	30.68 34.02
3/4	19.1	9.50	0.43±0.07	Clear Black	QKY034C-ND QKY034B-ND	12.06 11.87	21.34 20.65	46.40 46.46
1	25.4	12.70	0.48±0.07	Clear Black	QKY100C-ND QKY100B-ND	15.47 17.20	26.90 29.92	60.53 67.32

* Size before shrinking

Micro Speakers

Features: • Thin and lightweight design • High efficiency and high fidelity sound • High reliability

Recommended Applications: • Compact AV equipment • Electronic office equipment • Information and communication equipment

Fig. 1

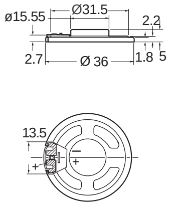

Fig. 2

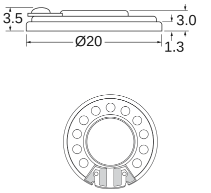

Fig. 3

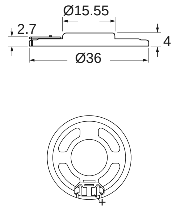

Fig.	Outer Dims. (mm.)	Input (W) Rated	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each			Panasonic Part No.
								1	10	100	
1	36	0.20	8	325~3500	74	8	P9604-ND	6.88	6.19	5.50	EAS-3P128A
2	20	0.2	7	Full Range	77	2.5	P10173-ND	4.29	3.82	3.17	EAS-2P113D
3	36	0.5	8	Full Range	84	8	P10175-ND	5.38	4.79	3.97	EAS-3P127A

Oval Magnetic Shielded Speakers

Features: • Low magnetic leakage flux • High tone quality
Recommended Applications: • AV equipment

Fig. 1

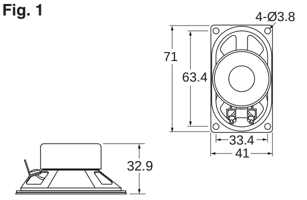

Fig. 2

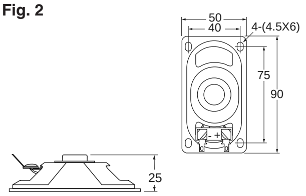

Fig. 3

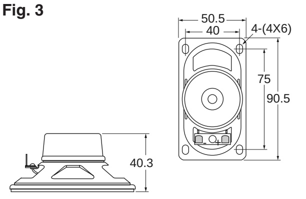

Fig. 4

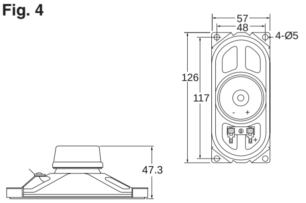

Fig.	Outer Dims. (mm.)	Input (W) Rated	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each			Panasonic Part No.
								1	10	100	
1	70 x 40	1.5	16	Full Range	90	107	P10184-ND	3.63	3.23	2.68	EAS-G7D504A2
2	90 x 50	1.5	16	Full Range	87	45	P10185-ND	3.23	2.87	2.38	EAS-G9D550B2
3	90 x 50	3	8	Full Range	88.5	135	P10186-ND	4.54	4.04	3.35	EAS-G9D541A2
4	120 x 60	3	8	Full Range	93.5	180	P10187-ND	6.05	5.38	4.47	EAS-G12D531E2

Hi-Fi Mini Speaker

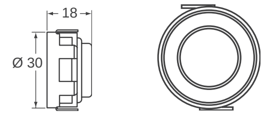

Features:
- Compact
- High Power

Recommended Applications:
- Notebook type PC
- DVD player
- Game machine
- PDA
- LCD monitor

Outer Dims. (mm.)	Input (W) Rated (Max)	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each			Panasonic Part No.
							1	10	100	
30	3	8	F0 to 20 k	76	21	P12055-ND	5.45	4.84	4.02	EAS-3P133B6

Balanced Dome Tweeter

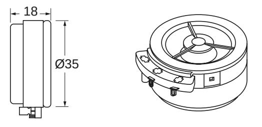

Features:
• High efficiency • High quality sound
• Compact and lightweight

Recommended Applications:
• Audio components • TV • Car speaker system

Outer Dims. (mm.)	Input (W) Rated (Max)	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Le vel	Net Wgt. (g)	Digi-Key Part No.	Price Each			Panasonic Part No.
							1	10	100	
35	30	6	8kHz~20kHz	80	83	P10183-ND	19.91	17.70	14.69	EAS-13KH11HB4-A

Hi-Fi Micro Speaker

Features: • Discrete edge surround, wide range reproduction • Slim design • Low magnetic leakage flux design **Recommended Applications:** • Multimedia equipment

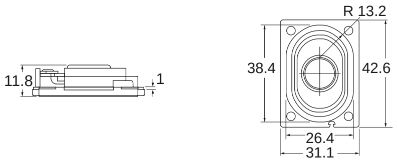

Outer Dims. (mm.)	Input (W) Rated	Imped-ance (Ω)	Frequency Range (Hz)	Sound Press. Level	Net Wgt. (g)	Digi-Key Part No.	Price Each			Panasonic Part No.
							1	10	100	
40 x 30	1	16	Full Range	73	12	P9613-ND	7.21	6.41	5.32	EAS-4D02C0

Small Size General Purpose Speakers

Features:
• Wide frequency range • Apply to wide variety of needs • Wide range of product selection

Recommended Applications:
• CD-radio-cassette recorders • Information and communication equipment

Fig. 1

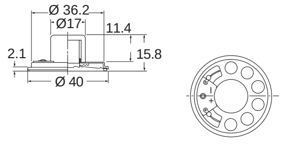

Fig. 2

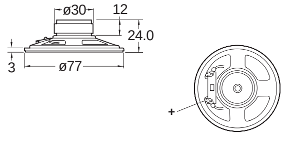

Fig. 3

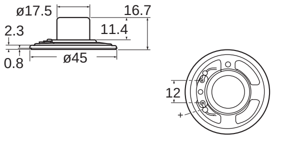

Fig. 4

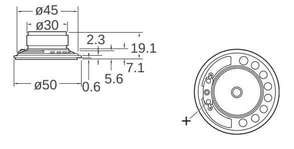

Fig. 5

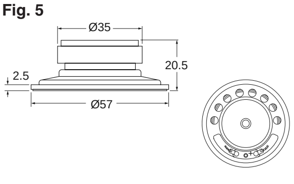

Fig. 6

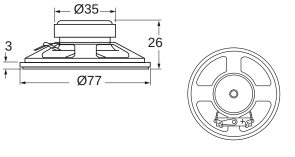

Fig.	Outer Dims. (mm.)	Input (W) Rated	Imped-ance (Ω)	Frequency Range (Hz)	Sound Pressure Level	Net Wgt. (g)	Digi-Key Part No.	Price Each			Panasonic Part No.
								1	10	100	
1	40	0.10	8	530~3000	92	25	P9605-ND	5.61	5.05	4.49	EAS-4P15SA
2	80	0.63	8	185~4000	93	68	P9607-ND	4.44	4.00	3.56	EAS-8P29SG
3	45	0.10	8	390~3000	93	24	P9608-ND	4.50	4.05	3.60	EAS-45P30S
4	50	0.16	8	350~3000	93	57	P9610-ND	3.76	3.39	3.01	EAS-5P13S
5	57	0.5	8	Full Range	92	75	P10177-ND	7.21	6.41	5.32	EAS-6P22S
6	77	0.63	25	Full Range	95	83	P10178-ND	6.87	6.11	5.07	EAS-8P36S

Ferrite Magnet Speakers

These low cost ferrite speakers are ideal for general applications such as information and communications equipment, portable audio equipment, and industrial use.

Mylar cone versions offer additional protection in moist environments or conditions requiring enhanced weather resistance.

Fig. 1 — Ferrite Magnet - Round Frame Type

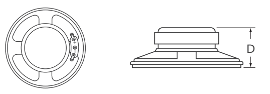

Fig. 2 — Ferrite Magnet - Square Frame Type

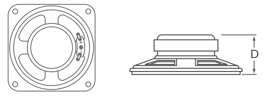

Fig. 3

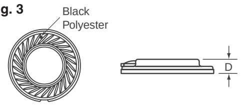

Fig.	Diameter Cone (mm)	Depth "D" (mm)	Impedance (Ω)	Frequency Range (Hz)	Input (W) Norm/Max.		S.P.L. (dB)	Digi-Key Part No.	Price Each 1	10	50	100	CUI Inc. Part No.
								Paper Cone Type					
1	50	17.5	8	450 ~ 5.9K	0.25	0.5	87	GF0501-ND	3.05	2.44	2.14	2.04	GF0501
2	50	18.0	8	480 ~ 7.2K	0.25	0.5	90	GF0506-ND	3.10	2.48	2.17	2.07	GF0506
1	57	18.5	8	380 ~ 8.1K	0.25	0.5	86	GF0571-ND	3.05	2.44	2.14	2.04	GF0571
1	57	27.5	8	450 ~ 20K	3.00	5.0	92	GF0573-ND	4.15	3.32	2.91	2.77	GF0573
2	57	18.5	8	380 ~ 8.1K	0.25	0.5	86	GF0576-ND	3.10	2.48	2.17	2.07	GF0576
1	66	20.0	8	300 ~ 8K	0.30	0.5	86	GF0661-ND	3.48	2.78	2.44	2.32	GF0661
2	66	29	8	300 ~ 20K	3.00	5.0	90	GF0668-ND	4.55	3.64	3.19	3.04	GF0668
1	70	21.5	8	310 ~ 4K	0.50	1.0	91	GF0701-ND	3.60	2.88	2.52	2.40	GF0701
1	77	24	8	180 ~ 10K	1.00	2.0	92	GF0771-ND	3.60	2.88	2.52	2.40	GF0771
2	77	31	8	250 ~ 15K	3.00	5.0	95	GF0778-ND	4.59	3.68	3.21	3.06	GF0778B
2	87	34	8	290 ~ 18K	3.00	5.0	99	GF0876-ND	5.00	4.00	3.50	3.34	GF0876
1	92	28.5	8	300 ~ 13K	2.00	3.0	93	GF0922-ND	4.03	3.22	2.82	2.69	GF0922
2	92	28.5	8	300 ~ 5K	2.00	3.0	93	GF0927-ND	4.55	3.64	3.19	3.04	GF0927
2	102	36.5	8	145 ~ 17K	6.00	10.0	93	GF1004-ND	6.30	5.04	4.41	4.20	GF1004
2	102	50.5	8	100 ~ 10K	20.00	40.0	90	GF1004H-ND	10.23	8.18	7.16	6.82	GF1004H
								Mylar Cone Type (Weather Resistant)					
1	40	9.6	8	136 ~ 2.8K	0.1	0.2	110	GF0401M-ND	3.10	2.48	2.17	2.07	GF0401M
1	50	17.5	8	440 ~ 5.8K	0.25	0.5	86	GF0501M-ND	3.68	2.94	2.58	2.45	GF0501M
1	57	18.5	8	480 ~ 14K	0.25	0.5	86	GF0571M-ND	3.68	2.94	2.58	2.45	GF0571M
1	66	20	8	430 ~ 10K	0.5	1	88	GF0661M-ND	3.93	3.14	2.75	2.62	GF0661M
2	66	19.5	8	330 ~ 10.1K	0.5	1	83	GF0666M-ND	3.95	3.16	2.77	2.64	GF0666M
1	77	24	8	280 ~ 11K	1	2	90	GF0771M-ND	4.10	3.28	2.87	2.74	GF0771M
2	77	24	8	360 ~11K	1	2	91	GF0776M-ND	4.15	3.32	2.91	2.77	GF0776M
2	102	36.2	8	250 ~ 13K	3	5	93	GF1003M-ND	5.63	4.50	3.94	3.75	GF1003M
2	102	36.5	8	230 ~ 14K	6	10	93	GF1004M-ND	6.90	5.52	4.83	4.60	GF1004M
3	13	2.0	8	0 ~ 20K	0.2	0.4	80	CDMG13008L-02-ND	1.95	1.78	1.60	1.42	CDMG13008L-02
3	15	2.8	8	0 ~ 20K	0.3	0.5	91	CDMG15008-03-ND	1.84	1.68	1.51	1.34	CDMG15008-03
3	16	2.55	8	0 ~ 20K	0.3	0.5	82	CDMG16008-03-ND	1.84	1.68	1.51	1.34	CDMG16008-03

Alnico Magnet Speakers

These Alnico magnet speakers are a good choice when magnet size and weight are a concern.
Mylar cone versions offer additional protection in moist environments or conditions requiring enhanced weather resistance.

Fig.	Diameter Cone (mm)	Depth "D" (mm)	Impedance (Ω)	Frequency Range (Hz)	Input (W) Norm/Max.		S.P.L. (dB)	Digi-Key Part No.	Price Each 1	10	50	100	CUI Inc. Part No.
							Paper Cone Type						
2	57	20	8	360 ~ 7K	0.25	0.5	83	102-1175-ND	3.30	2.64	2.31	2.20	GA0576
1	57	20	8	400 ~ 4K	0.25	0.5	88	102-1176-ND	3.30	2.64	2.31	2.20	GA0571
							Mylar Cone Type (Weather Resistant)						
2	57	20	8	500 ~ 12K	0.25	0.5	80	102-1187-ND	3.55	2.84	2.49	2.37	GA0576M
1	57	20	8	450 ~ 13K	0.25	0.5	88	102-1186-ND	3.50	2.80	2.45	2.33	GA0571M
1	77	26	8	300 ~ 22K	1	2	90	102-1190-ND	3.98	3.18	2.78	2.65	GA0771M

Fig. 1 — Alnico Magnet - Round Frame Type

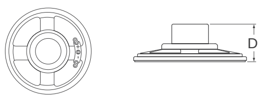

Fig. 2 — Alnico Magnet - Square Frame Type

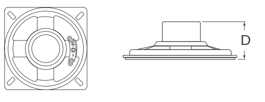

Notebook Speakers

Features: • Low profile rectangular design • Light weight rugged resin frame • Wide frequency range • Low resonant frequency
Recommended Applications: • Notebook Computers • Portable communication equipment • Multimedia equipment.

Fig. 1

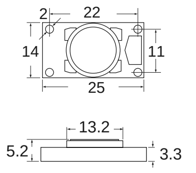

Fig. 2

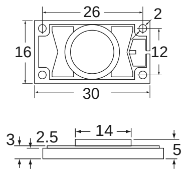

Fig. 3

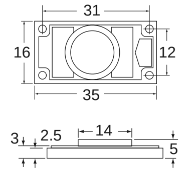

Fig. 4

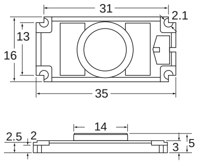

Fig. 5

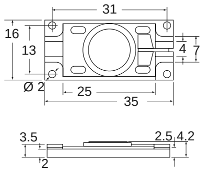

Fig. 6

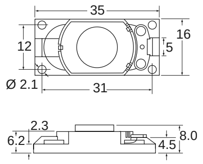

Fig. 7

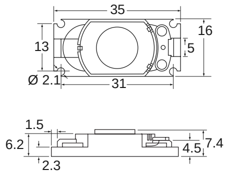

Fig. 8

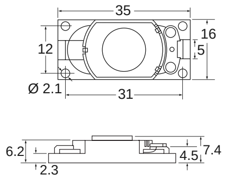

Fig. 9

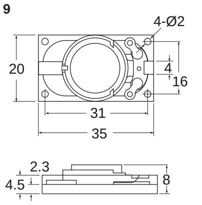

Fig. 10

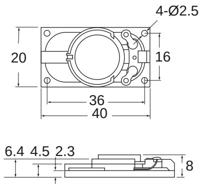

Fig. 11

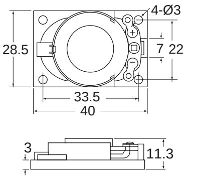

Fig.	Size (mm)	Depth (mm)	Frame Style	Resonant Freq. HZ +/-20%	Freq. Range (HZ)	Impedance Ω	Power (W) Input NOM	MAX	Magnet Size (mm)	Digi-Key Part No.	Price Each 1	10	50	100	CUI Inc. Part No.
1	14 x 25	5.2	Plastic	600	600~ 20K	8	1.0	1.5	7.9 x 1.3	GC0251K-ND	3.95	3.16	2.77	2.63	GC0251K
2	16 x 30	5.0	Plastic	500	500 ~ 4K	8	0.5	1.0	7.9 x 1.3	GC0301K-ND	4.00	3.20	2.80	2.67	GC0301K
3	16 x 35	5.0	Plastic	650	650 ~ 20K	8	1.0	1.5	7.9 x 1.3	GC0351M-ND	3.68	2.94	2.58	2.45	GC0351M
4	16 x 35	5.0	Plastic	650	650 ~ 20K	8	1.0	1.5	7.9 x 1.3	GC0351M-3-ND	3.68	2.94	2.58	2.45	GC0351M-3
5	16 x 35	4.2	Plastic	650	650 ~ 20K	8	1.0	1.5	7.9 x 1.0	GC0351N-ND	3.68	2.94	2.58	2.45	GC0351N
6	16 x 35	8.0	Plastic	550	500 ~ 13K	8	1.0	2.0	8.0 x 2.0	GC0351P-ND	4.73	3.78	3.31	3.15	GC0351P
7	16 x 35	7.4	Plastic	630	630 ~ 13K	4	1.0	2.0	8.1 x 1.4	GC0351P-1-ND	4.73	3.78	3.31	3.15	GC0351P-1
8	16 x 35	7.4	Plastic	630	630 ~ 13K	4	1.0	2.0	8.1 x 1.4	GC0351P-3-ND	4.73	3.78	3.31	3.15	GC0351P-3
9	20 x 35	8.0	Plastic	550	550 ~ 11K	8	1.0	1.5	11.0 x 1.5	GC0351K-ND	4.43	3.54	3.10	2.95	GC0351K
10	20 x 40	8.0	Plastic	550	550 ~ 12K	8	1.0	1.5	11.0 x 1.5	GC0401S-ND	4.83	3.86	3.38	3.22	GC0401S
11	28.5 x 40	11.3	Plastic	390	390 ~ 20K	8	1.0	2.0	12.5 x 1.8	GC0401K-ND	4.83	3.86	3.38	3.22	GC0401K

CUI INC

Miniature Monitor Speakers

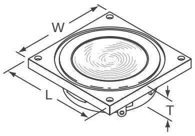

These miniature speakers deliver high output power and full range sound in a very small package. Additional magnetic shielding on the back also significantly reduces flux leakage. Ideal for small monitors and televisions, portable sound equipment, or anywhere else you need powerful sound in a small space.

Dimensions (mm)			Impedance	Frequency	Input Power (w)			Digi-Key	Pricing				CUI
W	L	T	Ω	Range (Hz)	Nominal	Maximum	SPL (dB)	Part No.	1	10	50	100	Part No.
16	20	6.6	8	1050-20K	2	2.5	75	102-1298-ND	4.30	34.40	150.50	286.55	CMS0201KFL-1X
20	20	9.5	8	530-20K	2	4	80	102-1299-ND	4.65	37.20	162.75	309.88	CMS0201KLX
23	23	10.2	8	380-20K	2	4	81	102-1300-ND	4.68	37.40	163.63	311.54	CMS0231KLX
28	28	11.2	8	310-20K	2	4	82	102-1301-ND	4.85	38.80	169.75	323.20	CMS0281KLX
32	32	14.5	8	250-15K	2	4	86	102-1302-ND	5.68	45.40	198.63	378.18	CMS0321KLX
34	34	14.5	8	260-20K	2	4	84	102-1303-ND	5.78	46.20	202.13	384.85	CMS0341KLX
36	36	14.5	8	230-20K	2	4	82	102-1304-ND	5.90	47.20	206.50	393.18	CMS0361KLX
40.1	40.1	14.5	8	270-20K	4	6	88	102-1305-ND	7.38	59.00	258.13	491.47	CMS0401KL-1X
40.1	40.1	14.5	8	440-20K	5	8	88	102-1306-ND	7.60	60.80	266.00	506.46	CMS0401KL-3X

Panasonic®

Piezoelectric Ceramic Buzzer Units

Applications:

• Smoke Detectors • Alarms • Detectors • Home Appliances • Radio Beepers • Electronic Games • Keyboard Signalers • Cameras • Telephone Ringers

P9948 Features:

• Drive oscillator circuitry — will run directly from commonly used voltage source such as dry batteries • High sound level and low input voltage • Low power consumption. Wide operating range of supply voltage: 3 ~ 20VDC.

Features For All Others:

• Low power consumption • Long life and no noise due to non-contact • Thin thickness buzzer element • External drive type • Covering wide frequency range • No magnetic field is generated • High sound pressure level

Example Driving Circuit (For Self Drive Type)

P9912 **P9915** **P9923**
P9913 **P9920**
P9914 **P9921**

Q: ZTX451 or equivalent
D: 1N4148 or equivalent

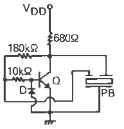

Fig. 1

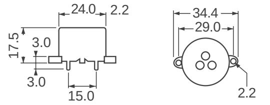

Fig. 2

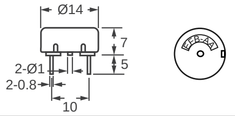

Fig. 3

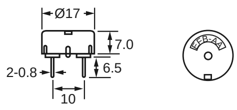

Fig. 4

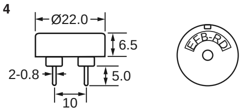

Fig. 5

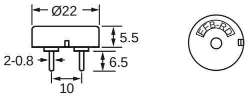

Fig. 6

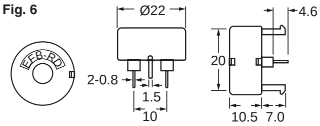

Fig. 7

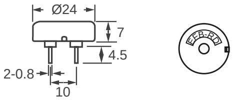

Fig. 8

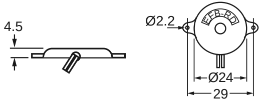

Fig. 9

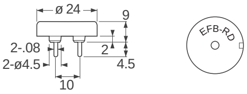

Fig. 10

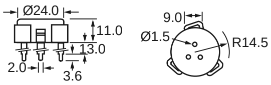

Fig. 11

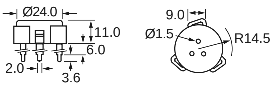

Fig. 12

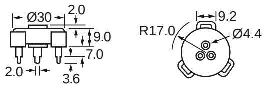

Fig. 13

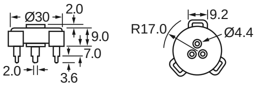

Fig. 14

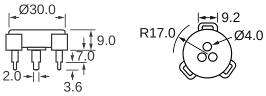

Fig. 15

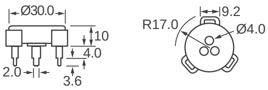

Fig. 16

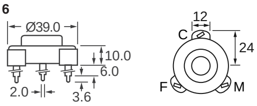

Fig.	Sound Pressure Level	Oscillating Freq.	Cap. (@1 KHz)	Current (12 VDC)	Input Voltage	Digi-Key Part No.	Pricing 1	10	100	500	1,000	5,000	Panasonic Part No.
1	80dB min. @ 12VDC	3.7KHz	—	15mA	3 ~ 20VDC	P9948-ND	9.90	83.77	654.89	2307.50	4351.00	4061.00/M	EFB-CB37C11
2	74dB min. @ (15V p-p, 4KHz Sq. Wave)	—	8500pF	—	25V p-p	P9900-ND	3.79	32.07	250.69	883.50	1666.00	1555.00/M	EFB-AA14D001
3	86dB min. @ (15V p-p, 4KHz Sq. Wave)	—	7000pF	—	25V p-p	P9957-ND	2.53	21.37	167.06	588.50	1110.00	1036.00/M	EFB-AA40D102
4	85dB min. @ (15V p-p, 4KHz Sq. Wave)	—	15000pF	—	30V p-p	P9929-ND	2.59	21.95	171.57	604.50	1140.00	1064.00/M	EFB-RD22C41
5	80dB min. @ (15V p-p, 4KHz Sq. Wave)	—	15000pF	—	30V p-p	P9951-ND	2.54	21.53	168.35	593.00	1119.00	1044.00/M	EFB-RD22C413
6	98dB min. @ (15V p-p, 4KHz Sq. Wave)	—	15000pF	—	30V p-p	P9909-ND	2.68	22.69	177.38	625.00	1179.00	1100.00/M	EFB-RD22C415
7	85dB min. @ (15V p-p, 4KHz Sq. Wave)	—	10000pF	—	30V p-p	P9910-ND	3.33	28.16	220.16	776.00	1463.00	1365.00/M	EFB-RD24C41B
8	80dB min. @ (15V p-p, 4KHz Sq. Wave)	—	12000pF	—	30V p-p	P9911-ND	2.59	21.95	171.57	604.50	1140.00	1064.00/M	EFB-RC24C41
9	85dB min. @ (15V p-p, 4KHz Sq. Wave)	—	10000pF	—	30V p-p	P9924-ND	2.14	18.10	141.47	498.50	940.00	877.00/M	EFB-RD24C411
10	96dB min. @ 10VDC	3.5KHz	—	—	3 ~ 20VDC	P9912-ND*	4.05	34.27	267.89	944.00	1780.00	1661.00/M	EFB-RM38C13
11	93dB min. @ 10VDC	3.5KHz	—	—	3 ~ 20VDC	P9913-ND*	4.05	34.27	267.89	944.00	1780.00	1661.00/M	EFB-RM38C123
12	85dB min. @ 12VDC	2.0KHz	—	—	3 ~ 20VDC	P9914-ND*	3.54	29.92	233.92	824.00	1554.00	1451.00/M	EFB-RL20C102
13	104dB min. @ 12VDC	2.8KHz	—	—	3 ~ 20VDC	P9915-ND*	3.46	29.29	228.98	807.00	1521.00	1420.00/M	EFB-RL28C11
14	106dB min. @ 12VDC	3.7KHz	—	—	3 ~ 20VDC	P9920-ND*	3.76	31.85	248.97	877.50	1654.00	1544.00/M	EFB-RL37C20
15	106dB min. @ 12VDC	3.7KHz	—	—	3 ~ 20VDC	P9921-ND*	3.76	31.85	248.97	877.50	1654.00	1544.00/M	EFB-RL37C22
16	106dB min. @ 12VDC	3.2KHz	—	—	3 ~ 20VDC	P9923-ND*	7.22	61.05	477.30	1682.00	3171.00	2960.00/M	EFB-BD32B21

* Driving circuit required. ***NOTE:*** All buzzers and microphones are non-washable.

Ultrasonic Ceramic Sensor/Transducer

Ultrasonic Ceramic Sensor consisting of a disc/bimorph type piezoelectric ceramic vibrator that is used as a sensor for transmitting and receiving ultrasonics in the air. Since the ultrasonic sensor has a resonance type vibrator, it is high in sensitivity and has outstanding sound pressure level. It has wide applications for burglar alarm systems, automatic door openers, flow rate detectors, and remote-control systems in TV, home appliance and toys, etc.

Sensors are not washable.

Type Q Enclosed Type

Temperature Range:
-20°C ~ 60°C

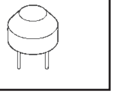

Type	Class	Ctr Freq. 51.0 (KHz)	Min. Band-Width (KHz)	Sound Pressure Level (dB)	Max. Input Volt. (Vrms)	Dimensions (mm) Physical Size Diameter	Height	Leads Length	Space	Digi-Key Part No.	Pricing 1	10	100	500	1,000	Panasonic Part No.
Q	Transmitter	40.0	1.0	105	20	18.0	12.0	12.5	7.5	P9893-ND	25.68	231.14	2054.60	7704.75	14382.20	EFR-TQB40KS

Panasonic Miniature Audio Transducer For General Application

For use in:

• Burglar Alarms • Paging Systems • Smoke Detectors • Gas Detectors • Light and Radiation Detectors • Data Entry Terminals • Cash Registers • Alarm Clocks • Fish Finders • Metal Detectors • Medical Equipment • Test Instruments • Telephones • Movie Cameras • Automotive Warning Systems • Production Machinery • Various Electronic Equipment

NOT WASHABLE UNLESS NOTED!

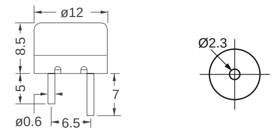

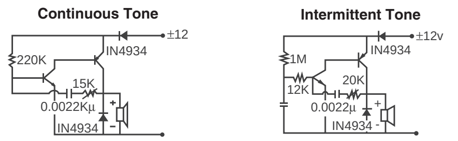

Rated Input (mW)	D.C. Resistance (Ω)	Impedance (Ω)	S. P. L. (dB/1 W/1 m)	Frequency (Hz)	Physical Size (mm)	Terminal	Digi-Key Part No.	Pricing 1	10	100	500	Panasonic Part No.
50	12	35	86	3.8K~4.3K	12 x 8.5	Straight Pin	P9965-ND	4.44	39.37	318.20	1121.21	EAF-12RF04C

MALLORY Sonalert® Audible Signal Devices (Buzzers)

MALLORY SONALERT PRODUCTS, INC.

Fig. 1

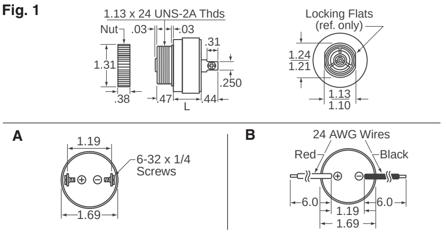

Fig. 2

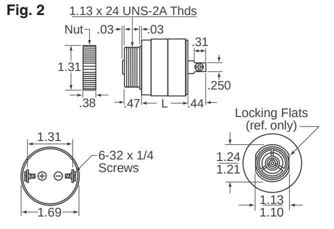

Fig. 3

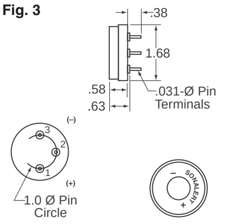

Fig. 4

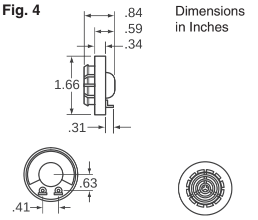

Fig.	Mounting Method	Dimension "L" (Inch)	Frequency ±500 (Hz)	Min. Sound Pressure dB (A) at Two Feet @Min. (V)	@Max. (V)	Operating Voltage (DC) Min.	Max.	Operating Current (mA) @Min. (V)	@Max. (V)	Digi-Key Part No.	Price Each 1	10	25	50	Mallory Part No.
Continuous Tones															
1A	Panel	0.81	1900±300	60	75	6	28	6	23	458-1033-ND	14.18	12.81	11.36	10.68	SC628D
	Panel	0.81	2900	60	75	1	5	3	16	458-1012-ND	12.55	11.34	10.06	9.45	SC105
	Panel	0.81	2900	80	90	3	7	3	9	458-1021-ND	19.97	18.05	16.00	15.04	SC307N
	Panel	0.81	2900	68	80	4	16	4	14	458-1022-ND	12.55	11.34	10.06	9.45	SC416
	Panel	0.81	2900	80	95	6	16	6	22	458-1024-ND	15.87	14.34	12.72	11.95	SC616N
	Panel	0.81	2900	68	80	6	28	3	18	458-1029-ND	12.55	11.34	10.06	9.45	SC628
	Panel	0.81	2900	80	90	6	28	6	23	458-1036-ND	13.68	12.36	10.96	10.30	SC628N
	Panel	0.81	2900	68	80	10	48	5	22	458-1040-ND	14.87	13.44	11.92	11.20	SC648
	Panel	0.81	4500	68	80	6	28	6	23	458-1034-ND	18.96	17.13	15.19	14.28	SC628H
1B	Panel	0.81	2900	80	95	6	16	6	22	458-1026-ND	19.29	17.43	15.46	14.53	SC616NL
2	Panel	1.38	1900	60	75	30‡	120‡	6	21	458-1014-ND	27.04	24.44	21.67	20.37	SC110D
	Panel	1.38	2000±300	75	95	6	28	3	15	458-1037-ND	18.92	17.10	15.17	14.25	SC628ND
	Panel	1.38	2900	68	80	30‡	120‡	6	21	458-1013-ND	25.17	22.74	20.17	18.95	SC110
	Panel	1.38	2900	80	95	30‡	120‡	6	24	458-1016-ND	29.37	26.54	23.53	22.12	SC110N
	Panel	1.38	2900	68	80	60‡	250‡	5	18	458-1020-ND	28.62	25.86	22.93	21.55	SC250
	Panel	1.38	2900	68	80	6‡	28‡	6	23	458-1030-ND	22.79	20.60	18.27	17.17	SC628A
	Panel	1.38	2900	80	95	6‡	28‡	4	30	458-1031-ND	27.04	24.44	21.67	20.37	SC628AN
3	Printed Board	—	2900	64	78	4	28	3	16	458-1011-ND	15.49	14.00	12.41	11.67	SBM428
4	Snap In Panel	—	2900	55	68	1	5	3	12	458-1041-ND	13.11	11.85	10.51	9.88	SNP2
	Snap In Panel	—	2900	64	76	4	28	3	18	458-1042-ND	13.89	12.56	11.14	10.47	SNP428
Intermittent Tones															
1A	Panel	0.81	2900	80	95	6	16	6	22	458-1025-ND†	21.00	18.98	16.83	15.82	SC616NJ
	Panel	0.81	2900	80	95	6	16	6	22	458-1027-ND•	17.31	15.65	13.88	13.04	SC616NP
2	Panel	1.38	2000±300	85	95	10	28	3	16	458-1038-ND•	20.14	18.20	16.14	15.17	SC628NDP
	Panel	1.38	2900	80	95	30‡	120‡	8	24	458-1018-ND•	30.48	27.54	24.42	22.95	SC110NP
	Panel	1.38	2900	80	95	6‡	28‡	4	30	458-1032-ND•	27.36	24.72	21.92	20.60	SC628ANP
	Panel	1.38	2900	68	80	6	28	6	26	458-1035-ND†	24.10	21.78	19.32	18.15	SC628J
	Panel	1.38	2900	68	80	6	28	6	26	458-1039-ND•	22.61	20.43	18.12	17.03	SC628P
	Panel	1.94	2900	68	80	30‡	120‡	6	22	458-1015-ND†	33.48	30.26	26.83	25.22	SC110J
Chime Tone (Chimes Every One to Two Seconds)															
2	Panel	1.38	2900	68	78	6	16	6	23	458-1023-ND	29.23	26.42	23.43	22.02	SC616CP
Optical/Audible Signal Devices															
2	Panel	.81	2900	80@6	95@16	6	16	40@6	60@16	458-1002-ND	32.25	29.15	25.85	24.29	LSC616N
	Panel	1.38	2900	88@30	98@120	3	120‡	5@30	16@120	458-1000-ND	51.14	46.22	40.98	38.52	LSC110N
	Panel			85@6	95@28	6	28‡	4@6	48@28	458-1003-ND	43.67	39.47	35.00	32.89	LSC628AN

‡ AC/DC Non-Polar • Fast = Turns on and off at 2 to 10 pulses per second depending upon voltage at 50% duty cycle.
† Slow = Turns on and off at .5 to 2 pulses per second depending upon voltage at 50% duty cycle.

MALLORY
MALLORY SONALERT PRODUCTS, INC.

NEW! Sonalert® Magnetic and Piezo Buzzers

RoHS COMPLIANT

Dim. in mm

Fig. 1
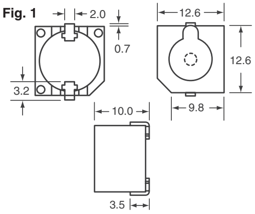

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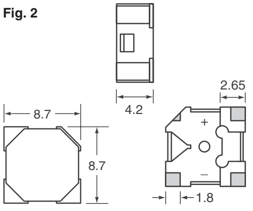

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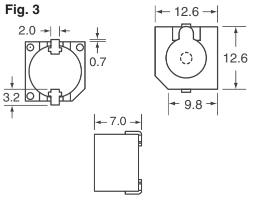

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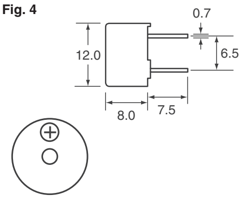

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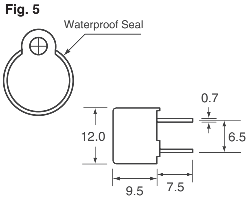

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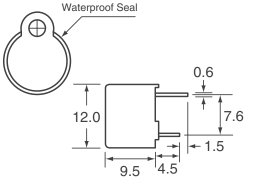

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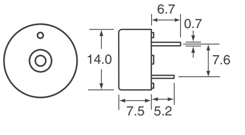

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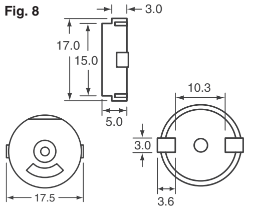

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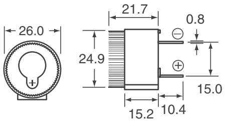

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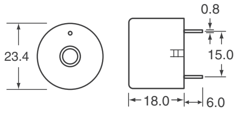

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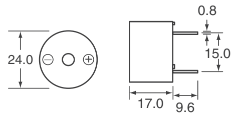

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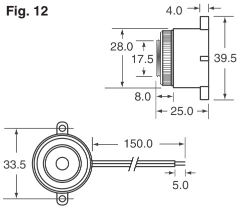

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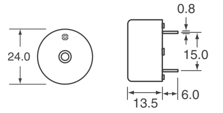

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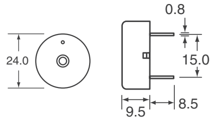

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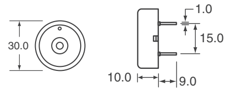

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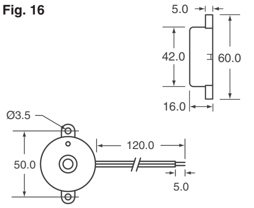

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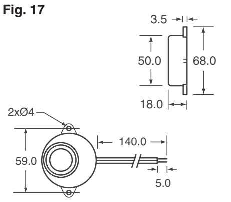

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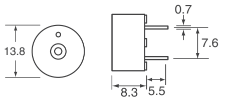

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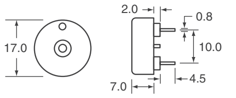

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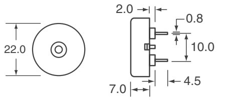

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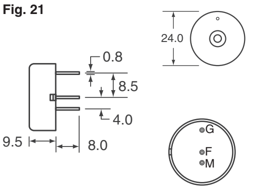

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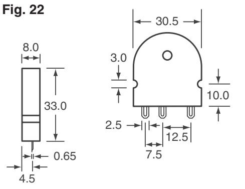

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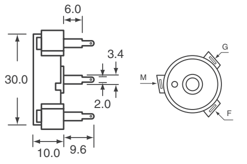

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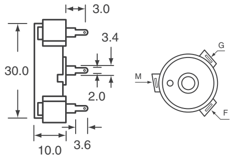

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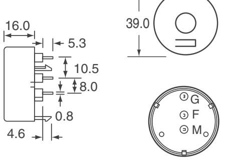

Fig.	Resonant Frequency (KHz)	Operating Voltage Range	Rated Voltage	Sound Pressure Level (dB)	Current Consumption Max (mA)	Operating Temperature Range °C	Digi-Key Part No.	Price Each 1	10	100	500	Mallory Part No.
Magnetic Buzzer												
1	2.400	4.0~7.0Vdc	5.0Vdc	90	30	-20~70	458-1049-ND	5.43	3.98	3.24	2.93	ASI301Q
1	2.400	9.0~15Vdc	12Vdc	90	50	-20~70	458-1050-ND	5.43	3.98	3.24	2.93	ASI401Q
2	2.731	2.0~5.0Vp-p	3.0Vp-p	85	80	-20~70	458-1052-ND	7.33	5.43	4.49	4.11	AST200Q
3	2.400	1.0~2.0Vp-p	1.5Vp-p	85	50	-20~70	458-1053-ND	5.20	3.69	3.03	2.70	AST501Q
3	2.400	4.0~7.0Vp-p	5.0Vp-p	87	50	-20~70	458-1054-ND	5.06	3.59	2.95	2.63	AST605Q
3	2.400	8.0~16Vp-p	12Vp-p	87	50	-20~70	458-1055-ND	5.06	3.59	2.95	2.63	AST612Q
4	2.048	1.25~2.5Vp-p	1.5Vp-p	85	40	-20~70	458-1061-ND	2.69	1.77	1.43	1.26	PB-1220PQ
5	2.400	4.5~5.5Vp-p	5.0Vp-p	85	50	-20~70	458-1062-ND	1.86	1.20	.92	.82	PB-1224PE-05Q
6	2.300	2.0~5.0Vdc	3.0Vdc	85	30	-20~70	458-1063-ND	5.62	4.11	3.35	3.03	PB-12N23P-03Q
6	2.300	4.5~5.5Vdc	5.0Vdc	85	50	-20~70	458-1064-ND	5.62	4.11	3.35	3.03	PB-12N23P-05Q
6	2.300	9.0~15Vdc	12Vdc	85	50	-20~70	458-1065-ND	5.62	4.11	3.35	3.03	PB-12N23P-12Q
7	4.100	3.0~15Vdc	12Vdc	83	10	-20~70	458-1066-ND	5.82	4.26	3.48	3.14	PK-12N40PQ
Piezo Buzzer												
8	4.000	3.0~15Vp-p	5.0Vp-p	80	1.5	-20~70	458-1051-ND	3.51	2.42	1.98	1.76	AST100Q
9	2.800	9.0~12Vdc	12Vdc	103	50	-20~90	458-1056-ND	10.47	7.97	6.83	6.15	MAS800SQ
9	2.800	5.0~14Vdc	12Vdc	103	50	-20~90	458-1057-ND	11.63	9.05	7.50	6.98	MAS806Q
9	2.800	5.0~14Vdc	12Vdc	103	50	-20~90	458-1058-ND	11.72	9.12	7.56	7.04	MAS806SQ
10	2.500	3.0~20Vdc	12Vdc	95	20	-20~60	458-1059-ND	7.28	5.39	4.46	4.08	MCP320B2Q
10	2.500	3.0~24Vdc	12Vdc	95	25	-20~70	458-1067-ND	7.63	5.49	4.58	4.27	PK-20A25PQ
10	3.800	3.0~24Vdc	12Vdc	95	15	-20~70	458-1069-ND	7.10	5.26	4.35	3.98	PK-20A38PQ
11	3.150	3.0~20Vdc	12Vdc	74	20	-20~85	458-1060-ND	6.68	4.94	4.09	3.74	MCP320Q
12	3.500	3.0~24Vdc	12Vdc	95	10	-20~70	458-1068-ND	7.43	5.50	4.55	4.16	PK-20A35EWQ
13	3.000	3.0~24Vdc	12Vdc	85	18	-20~70	458-1070-ND	8.00	5.76	4.80	4.48	PK-21A31PQ

(Continued)

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NEW! Sonalert® Magnetic and Piezo Buzzers *(Cont.)*

Fig.	Resonant Frequency (KHz)	Operating Voltage Range	Rated Voltage	Sound Pressure Level (dB)	Current Consumption Max (mA)	Operating Temperature Range °C	Digi-Key Part No.	Price Each 1	10	100	500	Mallory Part No.
14	3.000	1.5~30Vdc	12Vdc	80	12	-20~70	458-1071-ND	5.98	4.37	3.57	3.22	PK-21N30PQ
14	3.000	3.0~30Vp-p	5.0Vp-p	90	5	-20~90	458-1080-ND	4.00	2.76	2.25	2.01	PT-2130PQ
15	2.500	3.0~28Vdc	12Vdc	90	8	-20~70	458-1072-ND	6.85	5.07	4.20	3.84	PK-27N26PSQ
15	3.500	3.0~28Vdc	12Vdc	90	15	-20~70	458-1073-ND	6.85	5.07	4.20	3.84	PK-27N36PSQ
15	2.500	3.0~30Vp-p	5.0Vp-p	90	1.5	-20~70	458-1081-ND	4.06	2.80	2.29	2.03	PT-2726PQ
16	2.500	5.0~15Vdc	12Vdc	100	40	-20~70	458-1074-ND	9.84	7.49	6.42	5.89	PS-562Q
17	2.800	5.0~15Vdc	12Vdc	100	150	-20~70	458-1075-ND	11.57	8.90	7.46	6.94	PS-580Q
18	4.100	3.0~20Vp-p	5.0Vp-p	80	2	-20~70	458-1076-ND	5.16	3.73	3.06	2.73	PT-1240PQ
19	4.000	3.0~25Vp-p	5.0Vp-p	85	1.5	-20~100	458-1077-ND	2.69	1.77	1.43	1.26	PT-1540PQ
20	4.000	3.0~30Vp-p	5.0Vp-p	90	1.5	-20~90	458-1078-ND	2.44	1.65	1.28	1.13	PT-2040PQ
21	3.000	1.5~30Vdc	12Vdc	80	12	-20~90	458-1079-ND	4.00	2.76	2.25	2.01	PT-2130FPQ
22	2.800	3.0~28Vdc	12Vdc	85	10	-20~90	458-1082-ND	4.23	2.92	2.38	2.12	PT-2728FPQ
23	3.500	3.0~28Vdc	12Vdc	88	10	-20~90	458-1083-ND	4.00	2.76	2.25	2.01	PT-2735FPLQ
24	3.500	3.0~28Vdc	12Vdc	88	10	-20~90	458-1084-ND	4.21	2.90	2.37	2.11	PT-2735FPQ
25	3.400	3.0~28Vdc	9.0Vdc	105	12	-20~100	458-1085-ND	4.87	3.46	2.84	2.53	PT-3534FPQ

Sonalert® Audible Signal Devices

Dim. in mm

Features:

• Low Power Consumption • Low Cost • Compact Profile • Piezo Tone Quality • Extra Loud Sound Output • PCB Mount

Specifications:

• Operating Temperature: -20°C ~ 65°C

Applications:

• Fire Alarm • Crime Prevention Alarm • Call Buzzer • Automotive • Clocks • P.O.S. Equipment • Medical Instruments • Electrical Instruments • Industrial and Safety Equipment

Fig. 1

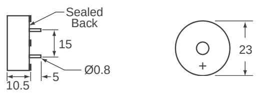

Fig. 2

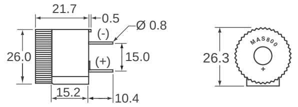

Fig.	Frequency ±400 (Hz)	Min. Sound Pressure dB (A) @ Two Feet @ Min. V	@ Max. V	Operating Voltage DC (V)	Operating Current (mA) @ Min. V	@ Max. V	Pulse Rate Per Second	Digi-Key Part No.	Price Each 1	10	25	50	Mallory Part No.
1	3850	75	86	5-16	3	14	Continuous	458-1006-ND	4.84	4.48	4.02	3.63	MSR516N
	3900	75	86	5-16	3	12	2 - 10 (Fast)	458-1008-ND	5.56	5.15	4.62	4.17	MSR516NP
	3700 Avg.	75	86	5-16	3	12	5 - 7 (Whooping)	458-1009-ND	8.54	7.90	7.09	6.41	MSR516W
2	2800 ± 500 (Hz)	80	93	9-12	—	50	Continuous	458-1004-ND	6.70	6.20	5.57	5.03	MAS800
NEW! RoHS Compliant NEW!													
1	3850	75	86	5-16	3	14	Continuous	458-1088-ND	5.03	4.65	4.18	3.78	MSR516NR
	3900	75	86	5-16	3	12	.5 - 2 (Slow)	458-1089-ND	5.71	5.29	4.74	4.29	MSR516NJR
	3900	75	86	5-16	3	12	2 - 10 (Fast)	458-1090-ND	5.78	5.35	4.80	4.34	MSR516NPR
	3800 Avg.	75	86	5-16	3	12	2 - 4 (Siren)	458-1092-ND	8.86	8.20	7.36	6.65	MSR516XR
	3700 Avg.	75	86	5-16	3	12	5 - 7 (Whooping)	458-1091-ND	8.89	8.22	7.38	6.67	MSR516WR
	3400	75 @ 12V		3-20	3	x16	Continuous	458-1087-ND	3.17	2.94	2.64	2.39	MSR320R
2	2800 ± 500 (Hz)	80	93	9-12	—	50	Continuous	458-1086-ND	6.97	6.45	5.79	5.23	MAS800Q

TDK *NEW!* Audio Transducers

Dim. in mm

Fig. 1

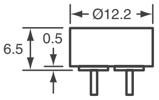

Fig. 2

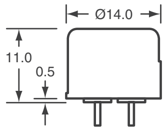

Fig. 4

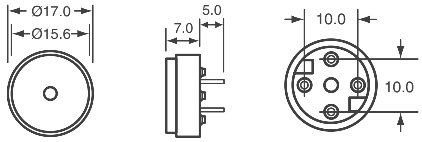

Fig. 6

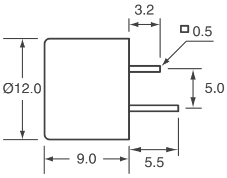

Fig. 3

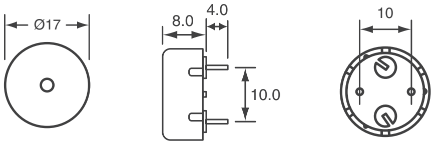

Fig. 5

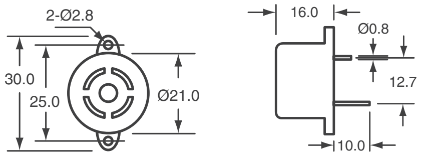

Fig.	Resonant Frequency (KHz)	Operating Voltage	Sound Pressure Level (dB)	Operating Temperature Range °C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Box Size	Pricing	TDK Part No.
1	4.0	3Vp-p	70	-20~70	445-2525-1-ND	.39	.36	.29	445-2525-3-ND	500	107.00	PS1240P02AT
2	2.0	5Vp-p	70	-20~70	445-2526-1-ND	.58	.54	.43	445-2526-3-ND	350	111.65	PS1420P02AT
3	2.0	3Vp-p	70	-20~70	445-2527-1-ND	.51	.47	.38	445-2527-3-ND	100	28.10	PS1720P02
4	4.0	3Vp-p	75	-20~70	445-2528-1-ND	.48	.44	—	445-2528-3-ND	240	62.40	PS1740P02
5	3.3	4~15Vdc	75	-20~60	445-2529-1-ND	3.98	3.63	—	445-2529-3-ND	100	217.30	PB2130UP002A
6	2.048	3Vp-p	80	-40~85	445-2530-1-ND	1.29	1.18	—	445-2530-3-ND	100	70.50	SD1209T3-A1
	2.048	5Vp-p	80	-40~85	445-2531-1-ND	1.30	1.19	—	445-2531-3-ND	100	70.80	SD1209T5-A1

CUI INC

Audio Transducers

Fig. 1

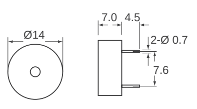

Fig. 2

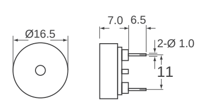

Fig. 3

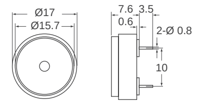

Fig. 4

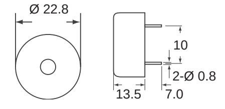

Fig. 5

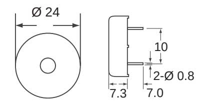

Fig. 6

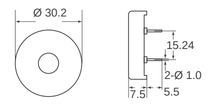

Fig. 7

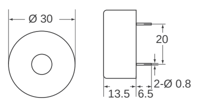

Fig. 8

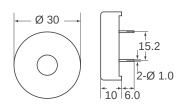

Fig. 9

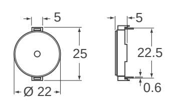

Fig. 10

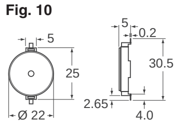

Fig. 11

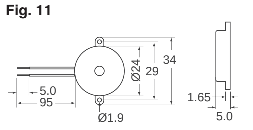

Fig. 12

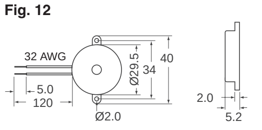

Fig. 13

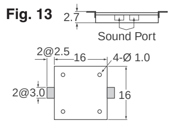

Fig. 14

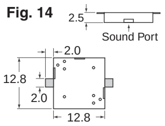

Fig. 15

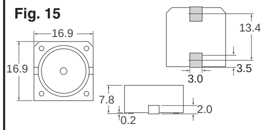

Fig. 16

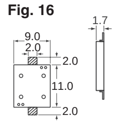

Fig. 17

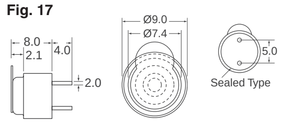

Fig. 18

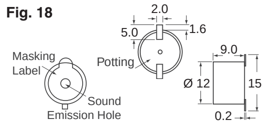

Fig. 19

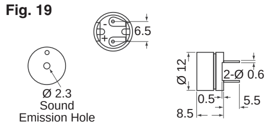

Fig. 20

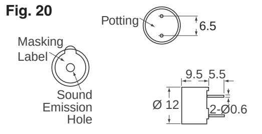

Fig. 21

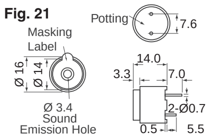

Fig. 22

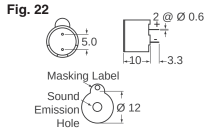

Fig. 23

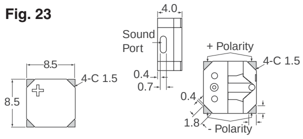

Fig. 24

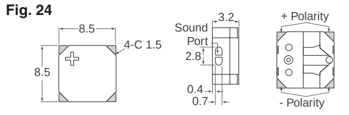

Fig. 25

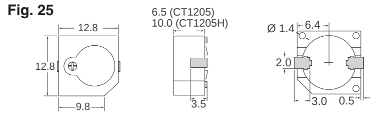

Fig. 26

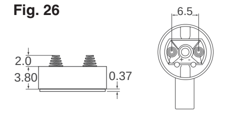

Fig. 27

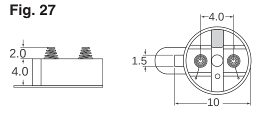

Fig. 28

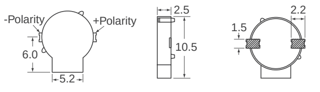

Fig. 29

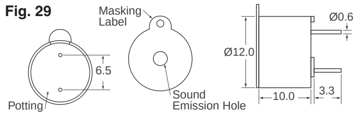

Fig. 30

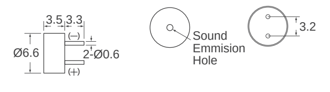

Fig. 31

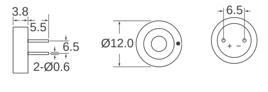

Piezo Ceramic Audio Transducers — External Drive Type

Fig.	Resonant Frequency (KHz)	Operating Voltage (Maximum)	Sound Pressure Level	Current Consumption (Maximum)	Capacitance	Operating Temp. (°C)	Terminal	Digi-Key Part No.	Price Each					Tape & Reel Pricing†	CUI Inc. Part No.
									1	10	100	500	1,000		
1	4.0	20V p-p	76dB min. @ 4.0KHz	10mA	17,000pF	-20 ~ 60	PCB Pin	102-1133-ND	2.26	2.05	1.64	1.37	1.19	—	CEP-1160
1	4.0	20V p-p	80dB min. @ 4.0KHz	7mA	14,000pF	-20 ~ 85	PCB Pin	102-1134-ND	2.45	2.23	1.78	1.48	1.30	—	CEP-1162
2	5.0	20V p-p	82dB min. @ 5.0KHz	11mA	7,500pF	-30 ~ 80	PCB Pin	102-1135-ND	1.38	1.25	1.00	.83	.73	—	CEP-1152
3	4.0	20V p-p	82dB min. @ 4.0KHz	7mA	13,000pF	-30 ~ 85	PCB Pin	102-1136-ND	1.51	1.38	1.10	.92	.80	—	CEP-1153
4	2.4	30V p-p	88dB min. @ 2.4KHz	18mA	80,000pF	-30 ~ 85	PCB Pin	102-1137-ND	2.83	2.58	2.06	1.71	1.50	—	CEP-1106
5	4.0	30V p-p	92dB min. @ 4.0KHz	11mA	21,000pF	-30 ~ 80	PCB Pin	102-1138-ND	1.38	1.25	1.00	.83	.73	—	CEP-1112
6	3.0	30V p-p	90dB min. @ 2.8KHz	10mA	18,000pF	-30 ~ 80	PCB Pin	102-1139-ND	1.82	1.65	1.32	1.10	.96	—	CEP-1130
7	2.0	30V p-p	93dB min. @ 2.0KHz	11mA	45,000pF	-30 ~ 80	PCB Pin	102-1140-ND	2.20	2.00	1.60	1.33	1.16	—	CEP-1114
8	2.0	30V p-p	90dB min. @ 2.0KHz	8mA	28,000pF	-30 ~ 85	PCB Pin	102-1141-ND	1.95	1.78	1.42	1.18	1.03	—	CEP-1116
9	2.5	50V p-p	80dB min. @ 2.5KHz	7mA	18,000pF	-30 ~ 85	PCB Pin	102-1142-ND	1.54	1.40	1.12	.93	.82	—	CEP-1108
10	2.5	50V p-p	80dB min. @ 2.5KHz	7mA	18,000pF	-30 ~ 85	SMD	102-1143-ND	1.71	1.55	1.24	1.03	.90	—	CEP-1109
11	4.1	30V p-p	90dB min. @ 4.1KHz	12mA	21,000pF	-30 ~ 85	Lead Wire	102-1144-ND	1.38	1.25	1.00	.83	.73	—	CEP-1110
12	2.8	30V p-p	92dB min. @ 2.8KHz	10mA	18,000pF	-30 ~ 80	Lead Wire	102-1145-ND	1.73	1.58	1.26	1.05	.92	—	CEP-1126
13	4.0	25V p-p	75dB min. @ 4.0KHz	3mA	14,000pF	-30 ~ 70	SMD	102-1193-1-ND‡	1.79	1.63	1.30	1.08	—	910.00/1,000	CMT-1603
14	4.1	25V p-p	70dB min. @ 4.1KHz	5mA	16,000pF	-20 ~ 70	SMD	102-1195-1-ND‡	2.37	2.15	1.72	1.43	—	1204.00/1,000	CMT-1303
15	5.0	20V p-p	88dB min. @ 5.0KHz	10mA	15,000pF	-30 ~ 70	SMD	102-1194-5-ND	2.37	2.15	1.72	1.43	1.25	—	CMT-1261
16	4.1	25V p-p	70dB min. @ 4.1KHz	4.5mA	12,000pF	-20 ~ 70	SMD	102-1264-1-ND‡	2.64	2.40	1.92	1.60	—	2688.00/2,000	CMT-1102
17	2.8	30V p-p	75dB min. @ 2.8KHz	4mA	5,600pF	-30 ~ 95	PCB Pin	102-1283-ND	1.53	1.33	1.02	.85	.77	—	CPE-171

Magnetic Audio Transducers — External Drive Type

Fig.	Resonant Frequency (KHz)	Operating Voltage	Sound Pressure Level	Current Consumption (Maximum)	Operating Temp. (°C)	Terminal	Digi-Key Part No.	Price Each					Tape & Reel Pricing†	CUI Inc. Part No.
								1	10	100	500	1,000		
18	2.4	4~8V O-p	85dB min. @ 2.4KHz	40mA	-40 ~ 85	SMD	102-1150-ND+	2.09	1.90	1.52	1.27	1.11	—	CD-1206
19	2.048	1~2V O-p	85dB min. @ 2.048KHz	20mA	-20 ~ 60	PCB Pin	102-1151-ND	.63	.58	.46	.39	.34	—	CEM-1201(42)
19	2.048	1~2V O-p	80dB min. @ 2.048KHz	20mA	-20 ~ 60	PCB Pin	102-1152-ND	.63	.58	.46	.39	.34	—	CEM-1201(50)
19	2.048	3~5V O-p	85dB min. @ 2.048KHz	20mA	-20 ~ 60	PCB Pin	102-1153-ND	.72	.65	.52	.44	.38	—	CEM-1203(42)
20	2.4	1~3V O-p	80dB min. @ 2.4KHz	40mA	-20 ~ 60	PCB Pin	102-1154-ND+	.83	.75	.60	.50	.44	—	CEM-1201S
20	2.4	3~8V O-p	85dB min. @ 2.4KHz	45mA	-20 ~ 60	PCB Pin	102-1155-ND+	.83	.75	.60	.50	.44	—	CEM-1206S
20	2.4	6~16V O-p	85dB min. @ 2.4KHz	40mA	-20 ~ 60	PCB Pin	102-1156-ND+	.83	.75	.60	.50	.44	—	CEM-1212S
21	2.048	1~3V O-p	80dB min. @ 2.048KHz	20mA	-20 ~ 60	PCB Pin	102-1112-ND+	1.40	1.28	1.02	.85	.74	—	CEM-1601
21	2.048	3~12V O-p	85dB min. @ 2.048KHz	50mA	-20 ~ 60	PCB Pin	102-1113-ND+	1.40	1.28	1.02	.85	.74	—	CEM-1606
21	2.048	6~18V O-p	85dB min. @ 2.048KHz	40mA	-20 ~ 60	PCB Pin	102-1114-ND+	1.40	1.28	1.02	.85	.74	—	CEM-1612
22	2.8	1~1.7V O-p	85dB min. @ 2.8KHz	40mA	-30 ~ 70	PCB Pin	102-1169-ND+	1.24	1.13	.90	.75	.66	—	CEM-14R06CT
23	2.73	2.5~4.5V O-p	87dB min. @ 2.73KHz	100mA	-30 ~ 70	SMD	102-1197-1-ND‡	2.28	2.08	1.66	1.38	—	1162.00/1,000	CSS-73B16K
24	3.1	3~5.0V O-p	90dB min. @ 3.1KHz	80mA	-30 ~ 70	SMD	102-1198-1-ND‡	2.34	2.13	1.70	1.42	—	1190.00/1,000	CSS-J4D20
25	2.4	3~8.0V O-p	87dB min. @ 2.4KHz	40mA	-30 ~ 70	SMD	102-1199-1-ND‡	1.79	1.63	1.30	—	—	424.13/450	CT-1205
25	2.4	3.0~7.0V O-p	88dB min. @ 2.4KHz	60mA	-30 ~ 70	SMD	102-1266-1-ND‡	1.60	1.45	1.16	—	—	269.12/320	CT-1205H
26	2.0	1~3V O-p	90dB min. @ 2.0KHz	90mA	-20 ~ 60	Spring	102-1201-ND	1.46	1.33	1.06	.88	.77	—	CSQ-706BS
27	2.73	2~4.5V O-p	90dB min. @ 2.73KHz	80mA	-20 ~ 60	Spring	102-1202-ND	2.26	2.05	1.64	1.37	1.19	—	CST-934AS
28	2.73	2.5~4.5V O-p	85dB min. @ 2.73KHz	110mA	-30 ~ 70	SMD	102-1265-1-ND‡	1.82	1.65	1.32	—	—	462.00/500	CCV-084B16
29	2.4	4.0~8.0V O-p	85dB min. @ 2.4KHz	50mA	-30 ~ 70	PCB Pin	102-1269-ND	.80	.73	.58	.49	.43	—	CCG-1206
30	3.0	1.0~1.7V O-p	70dB min. @ 3.0KHz	80mA	-20 ~ 60	PCB Pin	102-1284-ND	1.89	1.64	1.26	1.05	.95	—	CC-0601
31	2.0	2.0~4.0V O-p	85dB min. @ 2.0KHz	90mA	-30 ~ 70	PCB Pin	102-1286-ND	.87	.76	.58	.49	.44	—	CSQG703BP

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut tape pricing + Wave solderable and washable * Feedback circuit required

(Continued)

CUI INC

Audio Transducers *(Cont.)*

Piezo Ceramic Audio Transducers — Self Drive Type with Feedback

Fig. 32

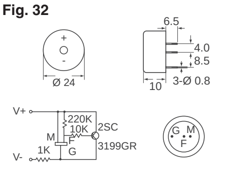

Fig. 33

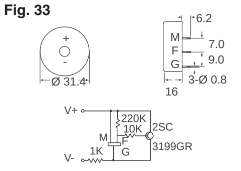

Fig. 34

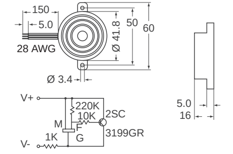

Fig. 35

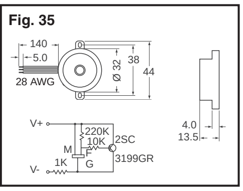

Fig.	Resonant Frequency (KHz)	Operating Voltage	Sound Pressure Level	Current Consumption (Maximum)	Operating Temp. (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	1,000	CUI Inc. Part No.
32	3.2	3~28VDC	74dB min. @ 12VDC	7mA	-30 ~ 85	PCB Pin	102-1146-ND*	1.60	1.45	1.16	.97	.85	CEP-1123
33	3.3	3~28VDC	81dB min. @ 12VDC	7mA	-30 ~ 80	PCB Pin	102-1147-ND*	2.12	1.93	1.54	1.28	1.12	CEP-1172
34	2.8	3~28VDC	85dB min. @ 12VDC	7mA	-30 ~ 85	Lead Wire	102-1148-ND*	2.37	2.15	1.72	1.43	1.25	CEP-1136
35	3.3	3~28VDC	82dB min. @ 12VDC	7mA	-30 ~ 80	Lead Wire	102-1149-ND*	2.04	1.85	1.48	1.23	1.08	CEP-1173

† For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut tape pricing + Wave solderable and washable * Feedback circuit required

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CUI INC Buzzers

Fig. 1

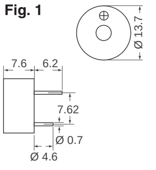

Fig. 2

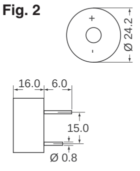

Fig. 3

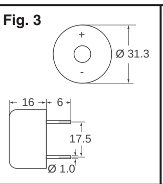

Fig. 4

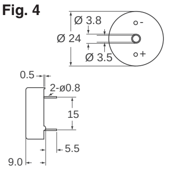

Fig. 5

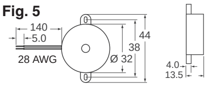

Fig. 6

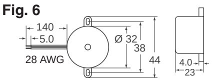

Fig. 7

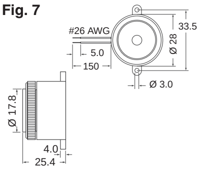

Fig. 8

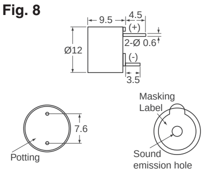

Fig. 9

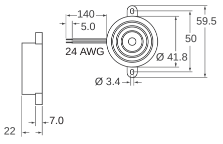

Fig. 10

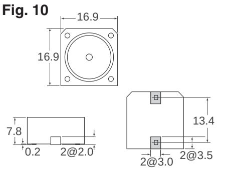

Fig. 11

10 (CT1205C)
7.1 (CT1205CL, CT1212CL)

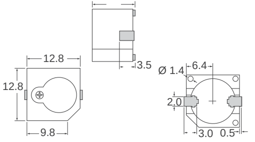

Fig. 12

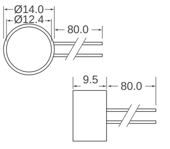

Fig. 13

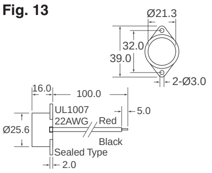

Fig. 14

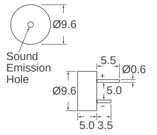

Audio Indicators

Fig.	Sound Pressure Level	Resonant Frequency (KHz)	Current	Input Voltage	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	1,000	Tape & Reel Pricing †	CUI Inc. Part No.
Piezo Buzzers with Drive Circuits													
1	70dB min. @ 12VDC	4.1	7mA @ 12VDC	3~16VDC	PCB Pin	102-1115-ND+	2.64	2.40	1.92	1.60	1.40	—	CEP-2242
2	85dB min. @ 12VDC	3.0	11mA @12VDC	3~20VDC	PCB Pin	102-1116-ND	3.41	3.10	2.48	2.06	1.80	—	CEP-2202A
2	85dB min. @ 12VDC	3.0	11mA @12VDC	3~20VDC	PCB Pin	102-1117-ND+	3.71	3.38	2.70	2.25	1.96	—	CEP-2202AS
3	93dB min. @ 12VDC	3.5	10mA @ 12VDC	3~20VDC	PCB Pin	102-1118-ND	3.49	3.18	2.54	2.11	1.85	—	CEP-2272A
4	78dB min. @ 12VDC	3.4	15mA @ 12VDC	3~20VDC	PCB Pin	102-1119-ND	2.50	2.28	1.82	1.52	1.32	—	CEP-2224
5	93dB min. @ 12VDC	3.5	10mA @ 12VDC	3~20VDC	Lead Wires	102-1120-ND	3.27	2.98	2.38	1.98	1.73	—	CEP-2260A
6	88dB min @ 12VDC	2.5 ~ 3.8	17mA @ 12VDC	6~18VDC	Lead Wires	102-1121-ND	6.13	5.58	4.46	3.71	3.24	—	CEP-2280
7	85dB min. @ 12VDC	3.5	6mA @ 12VDC	3~28VDC	Lead Wires	102-1122-ND	4.26	3.88	3.10	2.58	2.25	—	CEP-2250
9	88dB min. @ 110VAC	2.8	7mA @ 110VAC	30~120VAC/DC	Lead Wires	102-1125-ND	5.45	4.95	3.96	3.29	2.88	—	CEP-4411AC
10	83dB min. @ 12VDC	4.0	8mA @ 12VDC	3~20VDC	SMD	102-1196-5-ND	3.96	3.60	2.88	2.40	2.09	—	CMI-1240
12	80dB min. @ 12VDC	5.0	35mA @ 12VDC	9~16VDC	Lead Wires	102-1281-ND*	7.38	6.40	4.92	4.09	3.69	—	CPE-243
13	85dB min. @ 12VDC	2.8	35mA @ 12VDC	6~14VDC	Lead Wires	102-1282-ND*	8.97	7.78	5.98	4.97	4.49	—	CPE-267
Magnetic Buzzer with Drive Circuits													
8	85dB min. @ 12VDC	2.3	35mA @ 12VDC	8~16VDC	PCB Pin	102-1123-ND+	2.31	2.10	1.68	1.40	1.22	—	CEM-1212C
	85dB min. @ 5VDC	2.3	35mA @ 5VDC	4~7VDC	PCB Pin	102-1124-ND+	2.31	2.10	1.68	1.40	1.22	—	CEM-1205C
11	90dB min. @ 5VDC	2.4	30mA @ 5VDC	4~7VDC	SMD	102-1200-1-ND‡	2.72	2.48	1.98	—	—	459.36/320	CT-1205C
	88dB min. @ 5VDC	2.4	30mA @ 5VDC	4~7VDC	SMD	102-1267-1-ND‡	2.72	2.48	1.98	—	—	645.98/450	CT-1205CL
	85dB min. @ 12VDC	2.4	30mA @ 12VDC	8~15VDC	SMD	102-1268-1-ND‡	2.72	2.48	1.98	—	—	645.98/450	CT-1212CL
14	80dB min. @ 5VDC	2.73	35mA @ 5VDC	4~7VDC	PCB Pin	102-1285-ND+	1.98	1.72	1.32	1.10	.99	—	CX-0905C

+ Wave Solderable and Washable † For Tape and Reel part number, change 1-ND to 2-ND. ‡ Cut tape pricing * Waterproof

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Piezoelectric Ceramic Buzzer Elements

Fig. 1

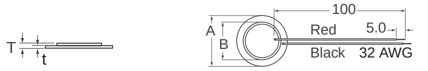

Fig. 2

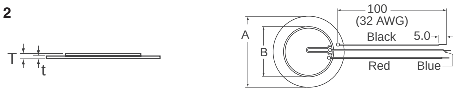

Dimensions (mm) A	B	T	t	Resonant Frequency (KHz)	Resonant Impedance (Maximum Ω)	Electrostatic Capacity (@ 1KHz)	Input Voltage (Max.)	Digi-Key Part No.	Price Each 1	10	100	500	1,000	CUI Inc. Part No.
Standard Type — Fig. 1														
20.00	14.60	0.43	0.20	6.5	350	13,000pF	30V p-p	102-1126-ND	1.02	.93	.74	.62	.54	CEB-20D64
27.00	19.80	0.53	0.25	4.6	250	16,000pF	20V p-p	102-1127-ND	1.10	1.00	.80	.67	.58	CEB-27D44
35.00	25.00	0.53	0.25	2.6	300	30,000pF	30V p-p	102-1128-ND	1.43	1.30	1.04	.87	.76	CEB-35D26
44.00	25.00	0.23	0.10	0.6	1,000	70,000pF	20V p-p	102-1170-ND	1.62	1.48	1.18	.98	.86	CEB-44D06
Feed Back Type — Fig. 2														
20.00	15.00	0.43	0.20	6.4	400	10,000pF	30V p-p	102-1129-ND	1.18	1.08	.86	.72	.63	CEB-20FD64
27.00	20.00	0.51	0.25	4.5	500	16,000pF	30V p-p	102-1130-ND	1.21	1.10	.88	.74	.64	CEB-27FD44
35.00	25.00	0.53	0.25	2.9	500	25,000pF	30V p-p	102-1131-ND	1.57	1.43	1.14	.95	.83	CEB-35FD29

Piezo Telephone Ringer

Sound Pressure Level	Electrostatic Capacitance (@ 1KHz)	Input Voltage (Max.)	Digi-Key Part No.	Price Each 1	10	100	500	1,000	CUI Inc. Part No.
81dB @ 1.1KHz	43,000pF	30V p-p	102-1132-ND	1.71	1.55	1.24	1.03	.90	CEP-1141

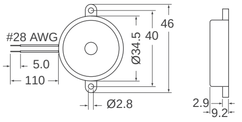

9-15VDC Buzzer

Operates from 9-15VDC. Case size: 23mm(L) x 15mm(W) x 13.5mm(H) with mounting hole centers at 27mm.

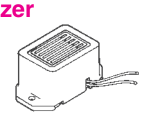

140CU-ND **$2.88/1; $26.40/10**

Magnetic Audio Transducers

Fig. 1

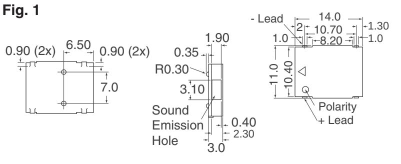

Fig. 2

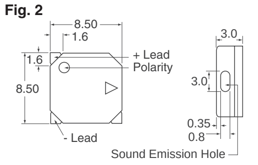

Fig. 3

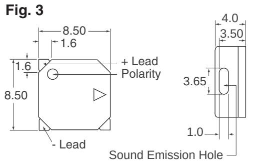

Fig. 4

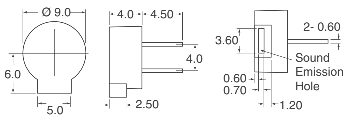

Fig. 5

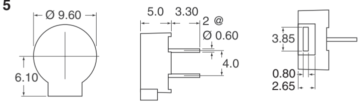

Fig. 6

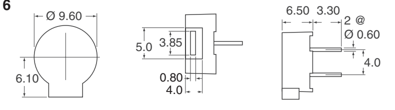

Fig. 7

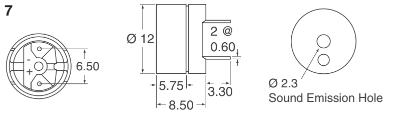

Fig. 8

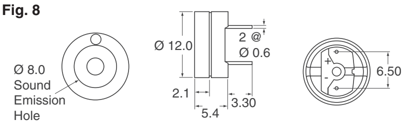

Fig. 9

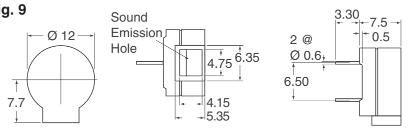

Fig. 10

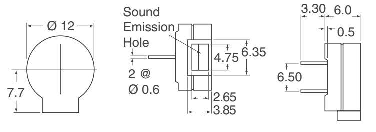

Fig. 11

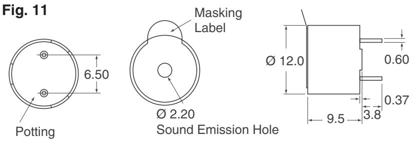

Fig. 12

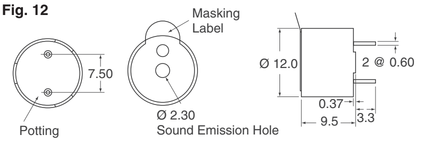

Fig. 13

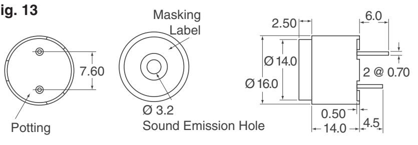

Reflowable SMD Type — External Drive

Fig.	Rated Frequency (KHz)	Operating Voltage (V) o-p	Sound Pressure Level	Current Consumption (mA) (Maximum)	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Soberton Part No.
1	2.73	1-2	85db min. @ 2.73KHz	80	-30 ~ 85	SMD	433-1000-1-ND	3.12	2.60	2.08	1.73	433-1000-2-ND	1463.28	ST-01AH
	2.73	2-4	87db min. @ 2.73KHz	70	-30 ~ 85	SMD	433-1001-1-ND	3.12	2.60	2.08	1.73	433-1001-2-ND	1463.28	ST-01BH
	2.30	4-6	87db min. @ 2.30KHz	70	-30 ~ 85	SMD	433-1002-1-ND	3.12	2.60	2.08	1.73	—	—	ST-01CL
	2.73	4-6	87db min. @ 2.73KHz	70	-30 ~ 85	SMD	433-1003-1-ND	3.12	2.60	2.08	1.73	433-1003-2-ND	1463.28	ST-01CH
2	2.73	1-2	85db min. @ 2.73KHz	80	-30 ~ 85	SMD	433-1004-1-ND	3.12	2.60	2.08	1.73	433-1004-2-ND	1463.28	ST-03AH
	2.30	2-4	87db min. @ 2.30KHz	70	-30 ~ 85	SMD	433-1005-1-ND	3.12	2.60	2.08	1.73	433-1005-2-ND	1463.28	ST-03BL
	2.73	2-4	87db min. @ 2.73KHz	70	-30 ~ 85	SMD	433-1006-1-ND	3.12	2.60	2.08	1.73	433-1006-2-ND	1463.28	ST-03BH
	2.73	4-6	87db min. @ 2.73KHz	70	-30 ~ 85	SMD	433-1007-1-ND	3.12	2.60	2.08	1.73	433-1007-2-ND	1463.28	ST-03CH
3	2.30	2-4	87db min. @ 2.30KHz	70	-30 ~ 85	SMD	433-1008-1-ND	3.12	2.60	2.08	1.73	433-1008-2-ND	1463.28	ST-04BL
	2.73	2-4	87db min. @ 2.73KHz	70	-30 ~ 85	SMD	433-1009-1-ND	3.12	2.60	2.08	1.73	433-1009-2-ND	1463.28	ST-04BH
	3.20	2-4	87db min. @ 3.20KHz	70	-30 ~ 85	SMD	433-1010-1-ND	3.12	2.60	2.08	1.73	433-1010-2-ND	1463.28	ST-04BT
	2.73	4-6	87db min. @ 2.73KHz	70	-30 ~ 85	SMD	433-1011-1-ND	3.12	2.60	2.08	1.73	433-1011-2-ND	1463.28	ST-04CH

Non-Washable Type — External Drive

Fig.	Rated Frequency (KHz)	Operating Voltage (V) o-p	Sound Pressure Level	Current Consumption (mA) (Maximum)	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Soberton Part No.
4	2.73	1-2	85db min. @ 2.73KHz	80	-20 ~ 60	PCB	433-1012-ND	1.27	.79	.58	.51	GT-0915RP2
	2.73	2-4	85db min. @ 2.73KHz	80	-20 ~ 60	PCB	433-1013-ND	1.27	.79	.58	.51	GT-0930RP2
	3.10	4-6	85db min. @ 3.10KHz	80	-20 ~ 60	PCB	433-1014-ND	1.27	.79	.58	.51	GT-0950RP3
5	2.73	1-2	85db min. @ 2.73KHz	80	-20 ~ 60	PCB	433-1015-ND	1.19	.74	.54	.48	GT-1515RP2
	3.10	1-2	87db min. @ 3.10KHz	80	-20 ~ 60	PCB	433-1016-ND	1.19	.74	.54	.48	GT-1515RP3
6	2.73	1-2	85db min. @ 2.73KHz	80	-20 ~ 60	PCB	433-1017-ND	1.19	.74	.54	.48	GT-1515RP2H
	3.10	1-2	87db min. @ 3.10KHz	80	-20 ~ 60	PCB	433-1018-ND	1.19	.74	.54	.48	GT-1515RP3H
7	2.048	1-2	85db min. @ 2.048KHz	35	-20 ~ 60	PCB	433-1019-ND	1.08	.63	.44	.39	GT-11P
	2.048	1.5-2	80db min. @ 2.048KHz	10	-20 ~ 60	PCB	433-1020-ND	.92	.54	.37	.32	GT-111P
	2.73	1-4	87db min. @ 2.73KHz	70	-20 ~ 60	PCB	433-1021-ND	1.08	.63	.44	.39	GT-11PB
8	2.048	1-2	70db min. @ 2.048KHz	35	-20 ~ 60	PCB	433-1022-ND	1.08	.63	.44	.39	GT-11PS
	2.048	1-4	70db min. @ 2.048KHz	15	-20 ~ 60	PCB	433-1023-ND	.92	.54	.37	.32	GT-111PS
9	2.048	1-2	80db min. @ 2.048KHz	35	-20 ~ 60	PCB	433-1024-ND	.92	.54	.37	.32	GT-12QP-1
	2.73	1-2	87db min. @ 2.73KHz	70	-20 ~ 60	PCB	433-1025-ND	.92	.54	.37	.32	GT-12QP-3
10	2.73	1-2	85db min. @ 2.73KHz	70	-20 ~ 60	PCB	433-1026-ND	.92	.54	.37	.32	GT-12QP-9

Washable Type — External Drive

Fig.	Rated Frequency (KHz)	Operating Voltage (V) o-p	Sound Pressure Level	Current Consumption (mA) (Maximum)	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Soberton Part No.
11	2.3±.2	1-2	85db min. @ 2.3KHz	35	-30 ~ 85	PCB	433-1027-ND	.87	.51	.35	.30	WT-1201
	2.3±.2	4-6	85db min. @ 2.3KHz	40	-30 ~ 85	PCB	433-1028-ND	.87	.51	.35	.30	WT-1205

Washable Type — Self-Contained Drive

Fig.	Rated Frequency (KHz)	Operating Voltage (V) DC	Sound Pressure Level	Current Consumption (mA) (Maximum)	Operating Temperature (°C)	Terminal	Digi-Key Part No.	Price Each 1	10	100	500	Soberton Part No.
12	2.3±.2	4-6	85db min. @ 2.3KHz	40	-20 ~ 60	PCB	433-1029-ND	1.81	1.18	.90	.80	WST-1205S
13	2.2±.2	8-16	85db min. @ 2.2KHz	30	-20 ~ 60	PCB	433-1030-ND	2.30	1.50	1.15	1.01	WST-1612S

Electret Condenser Microphone and Holders

Electret condenser microphones consist of a high voltage internal electret membrane, a metal electrode and a field effect transistor (FET). They are manufactured in a quality controlled facility in China. All microphones are produced with Japanese made FETs to ensure high quality and reliability. This along with 100% testing ensure a zero defect rate. Horn's commitment to quality has earned them approval from a famous global manufacturer of mobile phones. Horn's ECMs utilize a highly efficient, low impedance design, available in omni directional, unidirectional and noise canceling versions. All microphones are non-washable.

Fig. 1

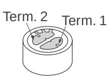

Fig. 2

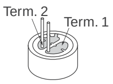

Fig. 3

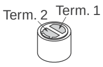

Fig. 4

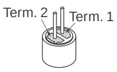

Fig. 5

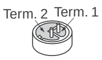

Fig. 6

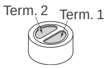

Fig. 7

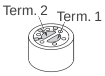

Fig. 8

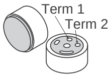

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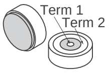

Fig. 10

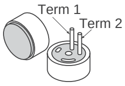

Fig. 11

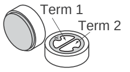

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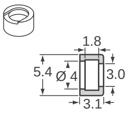

Fig. 13

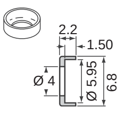

Fig. 14

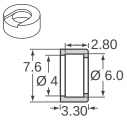

Fig. 15

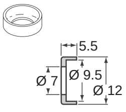

Fig. 16

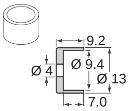

Fig. 17

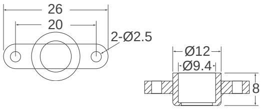

Fig.	Type	Physical Size (mm)	Sensitivity (0dB = 1V/Pa)	Operating Voltage Standard	Current Consumption Maximum	S/N Ratio	Digi-Key Part No.	Price Each			Horn Part No.
								1	10	100	
1	Omni-directional	ø9.7 x 6.5	-42dB ±2dB	4.5V	0.50mA	>60dB	359-1042-ND§	.98	.74	.49	EM9765-422-G
		ø9.7 x 6.5	-44dB ±2dB	4.5V	0.50mA	>60dB	359-1047-ND§	1.11	.83	.56	EM9745-442-G
		ø9.4 x 6.5	-44dB ±2dB	4.5V	0.50mA	>60dB	359-1008-ND	1.16	.87	.58	EM9465-442
		ø9.4 x 6.5	-44dB ±2dB	4.5V	0.50mA	>60dB	359-1049-ND§	1.16	.87	.58	EM9465-442-G
2		ø9.7 x 6.5	-42dB ±2dB	4.5V	0.50mA	>60dB	359-1043-ND§	.98	.74	.49	EM9765P-422-G
		ø9.7 x 4.5	-44dB ±2dB	4.5V	0.45mA	>60dB	359-1007-ND	1.20	.90	.60	EM9745P-442
		ø9.7 x 4.5	-44dB ±2dB	4.5V	0.45mA	>60dB	359-1048-ND§	1.20	.90	.60	EM9745P-442-G
		ø9.4 x 6.5	-44dB ±2dB	4.5V	0.50mA	>60dB	359-1009-ND	1.25	.94	.63	EM9465P-442
		ø9.4 x 6.5	-44dB ±2dB	4.5V	0.50mA	>60dB	359-1050-ND§	1.25	.94	.63	EM9465P-442-G
3		ø6.0 x 5.0	-44dB ±3dB	4.5V	0.50mA	>60dB	359-1011-ND	1.25	.94	.63	EM6050-423
		ø6.0 x 5.0	-44dB ±3dB	4.5V	0.50mA	>60dB	359-1052-ND§	1.25	.94	.63	EM6050-423-G
		ø6.0 x 5.0	-44dB ±3dB	4.5V	0.50mA	>40dB	359-1012-ND	1.25	.94	.63	EM6050-443
		ø6.0 x 5.0	-44dB ±3dB	4.5V	0.50mA	>40dB	359-1053-ND§	1.25	.94	.63	EM6050-443-G
		ø6.0 x 3.5	-38dB ±3dB	4.5V	0.50mA	>40dB	359-1017-ND	3.03	2.28	1.52	EM6035-383
		ø6.0 x 3.5	-38dB ±3dB	4.5V	0.50mA	>40dB	359-1058-ND§	3.03	2.28	1.52	EM6035-383-G
		ø6.0 x 3.5	-40dB ±3dB	4.5V	0.50mA	>40dB	359-1059-ND§	3.03	2.28	1.52	EM6035-403-G
		ø6.0 x 2.7	-42dB ±3dB	4.5V	0.50mA	>40dB	359-1019-ND	3.03	2.28	1.52	EM6027-423
		ø6.0 x 2.7	-42dB ±3dB	4.5V	0.50mA	>40dB	359-1060-ND§	3.03	2.28	1.52	EM6027-423-G
		ø6.0 x 2.2	-40dB ±2dB	2.0V	0.50mA	>60dB	359-1023-ND	1.31	.94	.70	EM6022-40BC10&33
		ø6.0 x 2.2	-40dB ±2dB	2.0V	0.50mA	>60dB	359-1063-ND§	1.31	.94	.70	EM6022-40BC10&33-G
		ø6.0 x 1.5	-44dB ±2dB	2.0V	0.50mA	>60dB	359-1027-ND	1.93	1.38	1.03	EM6015-44BC10&33
		ø6.0 x 1.5	-44dB ±2dB	2.0V	0.50mA	>60dB	359-1067-ND§	1.93	1.38	1.03	EM6015-44BC10&33-G
		ø6.0 x 1.8	-44dB ±2dB	2.0V	0.50mA	>60dB	359-1029-ND	1.75	1.25	.93	EM6018-44BC10&33
		ø6.0 x 1.8	-44dB ±2dB	2.0V	0.50mA	>60dB	359-1069-ND§	1.75	1.25	.93	EM6018-44BC10&33-G
		ø6.0 x 1.3	-48dB ±2dB	2.0V	0.50mA	>60dB	359-1030-ND	2.06	1.47	1.09	EM6013-48BC10&33
		ø6.0 x 1.3	-48dB ±2dB	2.0V	0.50mA	>60dB	359-1070-ND§	2.06	1.47	1.09	EM6013-48BC10&33-G
		ø6.0 x 1.1	-46dB ±4dB	2.0V	0.50mA	>58dB	359-1035-ND	2.62	1.87	1.39	EM6011-46FC10&33
		ø6.0 x 1.1	-46dB ±4dB	2.0V	0.50mA	>58dB	359-1075-ND§	2.62	1.87	1.39	EM6011-46FC10&33-G
4		ø6.0 x 5.0	-42dB ±3dB	4.5V	0.50mA	>40dB	359-1013-ND	1.34	1.01	.67	EM6050P-423
		ø6.0 x 5.0	-42dB ±3dB	4.5V	0.50mA	>40dB	359-1054-ND§	1.34	1.01	.67	EM6050P-423-G
		ø6.0 x 5.0	-44dB ±3dB	4.5V	0.50mA	>40dB	359-1014-ND	1.34	1.01	.67	EM6050P-443
		ø6.0 x 5.0	-44dB ±3dB	4.5V	0.50mA	>40dB	359-1055-ND§	1.34	1.01	.67	EM6050P-443-G
5		ø6.0 x 2.7	-42dB ±3dB	4.5V	0.50mA	>40dB	359-1061-ND§	3.34	2.51	1.67	EM6027PA-423-G
		ø6.0 x 1.8	-46dB ±2dB	2.0V	0.50mA	>60dB	359-1024-ND	1.81	1.30	.96	EM6018P-46BC10&33
		ø6.0 x 1.8	-46dB ±2dB	2.0V	0.50mA	>60dB	359-1064-ND§	1.81	1.30	.96	EM6018P-46BC10&33-G
		ø6.0 x 2.2	-42dB ±2dB	2.0V	0.50mA	>60dB	359-1025-ND	1.31	.94	.70	EM6022P-42BC10&33
		ø6.0 x 2.2	-42dB ±2dB	2.0V	0.50mA	>60dB	359-1065-ND§	1.31	.94	.70	EM6022P-42BC10&33-G
6		ø4.5 x 3.0	-44dB ±3dB	4.5V	0.50mA	>40dB	359-1021-ND	3.57	2.68	1.79	EM4530-443
		ø4.5 x 3.0	-44dB ±3dB	4.5V	0.50mA	>40dB	359-1062-ND§	3.30	2.48	1.65	EM4530-443-G
		ø4.0 x 2.0	-48dB ±4dB	2.0V	0.50mA	>58dB	359-1033-ND	2.18	1.56	1.16	EM4020-48BC10&33
		ø4.0 x 2.0	-48dB ±4dB	2.0V	0.50mA	>58dB	359-1073-ND§	2.18	1.56	1.16	EM4020-48BC10&33-G
		ø4.0 x 1.1	-52dB ±4dB	2.0V	0.50mA	>58dB	359-1034-ND	2.81	2.01	1.49	EM4011-52FC10&33
		ø4.0 x 1.1	-52dB ±4dB	2.0V	0.50mA	>58dB	359-1074-ND§	2.81	2.01	1.49	EM4011-52FC10&33-G
		ø4.0 x 1.5	-46dB ±4dB	2.0V	0.50mA	>58dB	359-1036-ND	2.68	1.92	1.42	EM4015-46BC10&33
		ø4.0 x 1.5	-46dB ±4dB	2.0V	0.50mA	>58dB	359-1076-ND§	2.68	1.92	1.42	EM4015-46BC10&33-G
8		ø10.0 x 5.0	-38dB ±2dB	4.5V	0.50mA	>60dB	359-1026-ND	.50	.36	.27	EM1050-38
		ø10.0 x 5.0	-38dB ±2dB	4.5V	0.50mA	>60dB	359-1066-ND§	.50	.36	.27	EM1050-38-G
9		ø6.0 x 2.2	-42dB ±2dB	2.0V	0.50mA	>60dB	359-1028-ND	1.50	1.07	.80	EM6022S-42BC10&33
		ø6.0 x 2.2	-42dB ±2dB	2.0V	0.50mA	>60dB	359-1068-ND§	1.50	1.07	.80	EM6022S-42BC10&33-G
10		ø10.0 x 5.0	-40dB ±2dB	4.5V	0.50mA	>60dB	359-1031-ND	.56	.41	.30	EM1050P-40
		ø10.0 x 5.0	-40dB ±2dB	4.5V	0.50mA	>60dB	359-1071-ND§	.56	.41	.30	EM1050P-40-G
11		ø4.5 x 1.3	-50dB ±4dB	2.0V	0.50mA	>58dB	359-1032-ND	2.18	1.56	1.16	EM4513-50BC10&33
		ø4.5 x 1.3	-50dB ±4dB	2.0V	0.50mA	>58dB	359-1072-ND§	2.18	1.56	1.16	EM4513-50BC10&33-G
3	Uni-directional	ø6.0 x 5.0	-51dB ±4dB	2.0V	0.50mA	>58dB	359-1016-ND	3.21	2.41	1.61	EM6050U-514
		ø6.0 x 5.0	-51dB ±4dB	2.0V	0.50mA	>58dB	359-1057-ND§	3.21	2.41	1.61	EM6050U-514-G
7		ø9.7 x 5.2	-47dB ±4dB	1.5V	0.50mA	>60dB	359-1003-ND	3.39	2.54	1.70	EM9752U-474
		ø9.7 x 5.2	-47dB ±4dB	1.5V	0.50mA	>60dB	359-1044-ND§	2.96	2.22	1.48	EM9752U-474-G
		ø9.7 x 5.2	-51dB ±4dB	1.5V	0.50mA	>60dB	359-1004-ND	3.39	2.54	1.70	EM9752U-514
		ø9.7 x 5.2	-51dB ±4dB	1.5V	0.50mA	>60dB	359-1045-ND§	2.96	2.22	1.48	EM9752U-514-G
		ø8.0 x 5.0	-51dB ±4dB	1.5V	0.50mA	>58dB	359-1010-ND	3.39	2.54	1.70	EM8050U-514
		ø8.0 x 5.0	-51dB ±4dB	1.5V	0.50mA	>58dB	359-1051-ND§	2.96	2.22	1.48	EM8050U-514-G
3	Noise Cancelling	ø6.0 x 5.0	-51dB ±4dB	2.0V	0.50mA	>58dB	359-1015-ND	3.21	2.41	1.61	EM6050N-514
3		ø6.0 x 5.0	-51dB ±4dB	2.0V	0.50mA	>58dB	359-1056-ND§	3.21	2.41	1.61	EM6050N-514-G
7		ø9.7 x 5.2	-51dB ±4dB	1.5V	0.50mA	>58dB	359-1046-ND§	3.30	2.48	1.65	EM9752N-514-G
12	Microphone holder for 4.0 x 1.5mm Microphone						359-1037-ND	.41	.25	.16	01.AE.MT.401504
12	Microphone holder for 4.0 x 1.5mm Microphone						359-1078-ND§	.41	.25	.16	01.AE.MT.401504-G
13	Microphone holder for 6.0 x 1.5mm Microphone						359-1038-ND	.41	.25	.16	01.AE.MT.601503
13	Microphone holder for 6.0 x 1.5mm Microphone						359-1079-ND§	.41	.25	.16	01.AE.MT.601503-G
14	Microphone holder for 6.0 x 1.8mm Microphone						359-1039-ND	.41	.25	.16	01.AE.MT.601803
14	Microphone holder for 6.0 x 1.8mm Microphone						359-1080-ND§	.41	.25	.16	01.AE.MT.601803-G
15	Microphone holder for 9.7 x 4.5mm Microphone						359-1081-ND§	.43	.25	.16	01.AE.MT.974501-G
16	Microphone holder for 9.7 x 6.5mm Microphone						359-1041-ND	.43	.25	.16	01.AE.MT.976509
16	Microphone holder for 9.7 x 6.5mm Microphone						359-1082-ND§	.43	.25	.16	01.AE.MT.976509-G
17	Microphone holder for 9.4mm Microphone						359-1022-ND	.43	.26	.17	01.AE.MT.946502
17	Microphone holder for 9.4mm Microphone						359-1077-ND§	.43	.26	.17	01.AE.MT.946502-G

§ ***RoHS Compliant***

Panasonic

Electret Condenser Microphone Cartridge

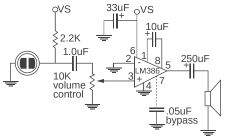

Consists of a high voltage internal electret membrane, metal electrode and a Field Effect Transistor (FET). Doesn't need a high-voltage bias from the outside like ordinary condenser microphones. **Features:** Highly efficient electrical specification, pressure type operating principle, low impedance (2.2kΩ), omnidirectional back directivity and a high degree of reliability under adverse shock, vibration and environmental tests. **Applications:** Telephone and telephone answering devices, tape recorders, intercoms, computer modems, completed microphones for recording, testing and monitoring, hearing aids, sonic controlled toys and sensors and others. All buzzers and microphones are non-washable.

Fig. 1

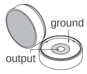

Fig. 2

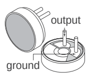

Fig. 3

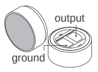

Fig. 4

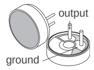

Fig. 5

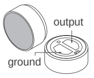

Fig. 6

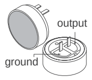

Fig.	Type	Physical Size (mm)	Sensitivity (0dB = 1V/Pa)	Frequency Range (Hz)	Operating Voltage Max./Std.	Current Consumption Max.	Sensitivity Reduction	S/N Ratio	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	Omni-directional	ø6.0 X 1.3	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11957-ND†	2.83	2.51	2.03	WM-63GCT
1		ø6.0 X 1.3	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11958-ND†	2.93	2.60	2.10	WM-63GNT
2		ø6.0 X 1.3	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11961-ND	3.36	2.99	2.42	WM-63PRT
3		ø6.0 X 2.2	-45dB ±4dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P9955-ND†	2.05	1.82	1.48	WM-64C
3	Omni-directional	ø6.0 X 2.2	-45dB ±4dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P9958-ND†	2.03	1.81	1.46	WM-64K
1		ø6.0 X 2.2	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11964-ND†	1.99	1.77	1.43	WM-64MCT
1		ø6.0 X 2.2	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11965-ND†	2.01	1.79	1.45	WM-64MNT
4		ø6.0 X 2.2	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11969-ND†	2.74	2.43	1.97	WM-64PNT
5	Omni-directional	ø6.0 X 3.4	-35dB ±4dB	20-20k	10V/2V	0.5mA	within -3dB @ 1.5V	>62dB	P9925-ND	1.83	1.63	1.31	WM-61A
6		ø6.0 X 3.4	-35dB ±4dB	20-20k	10V/2V	0.5mA	within -3dB @ 1.5V	>62dB	P11974-ND	2.08	1.85	1.50	WM-61B
7	Omni-directional	ø7.7 X 3.0	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11959-ND	4.78	4.24	3.43	WM-63GNT330
8		ø7.5 X 2.4	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11960-ND	5.01	4.44	3.59	WM-63GNT335
9		ø7.7 X 4.0	-44dB ±3dB	20-16k	10V/2V	0.5mA	within -3dB @ 1.5V	>58dB	P11966-ND	3.76	3.34	2.70	WM-64MNT330A
10	Uni-directional	ø9.7 X 5.0	-47dB ±4dB	100-16k	10V/1.5V	0.5mA	within -3dB @ 1V	>60dB	P9961-ND	2.58	2.30	1.86	WM-55A103
10		ø9.7 X 5.0	-50dB ±3dB	100-16k	10V/1.5V	0.5mA	within -3dB @ 1V	>60dB	P9963-ND	1.86	1.66	1.34	WM-56A103
11		ø6.0 X 5.0	-50dB ±4dB	100-12k	10V/2V	0.5mA	within -3dB @ 1.5V	>55dB	P9964-ND	2.08	1.85	1.50	WM-65A103
12	Noise Canceling	ø9.7 X 5.0	-54dB ±4dB	100-10k	10V/1.5V	0.5mA	within -3dB @ 1V	>58dB	P9897-ND	2.66	2.37	1.91	WM-55D103

† With built-in cap

Fig. 7

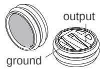

Fig. 8

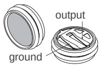

Fig. 9

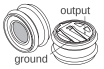

Fig. 10

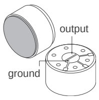

Fig. 11

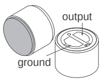

Fig. 12

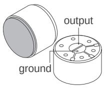

Microphone Holders

Fig.	Digi-Key Part No.	Price Each 1	10	100	500	Panasonic Part No.	Use With Panasonic Part No.
1	P9950-ND	.59	.50	.39	.28	M3CA0208A4	WM-55A103, WM-55D103, WM-56A103
2	P9952-ND	.59	.50	.39	.28	M3CA0207A4	WM-55A103, WM-55D103, WM-56A103

Fig. 1

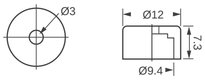

Fig. 2

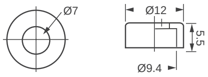

KNOWLES ACOUSTICS

Electret Condenser Microphones

Applications: • Headsets • Corded and cordless telephones • PCs, PC tablets, laptops • PDAs, MP3 players • Automotive and automotive accessories • General electronics

Features: • Operating Temperature: -25° ~ 55°C • Highly efficient electrical specifications • Provide good acoustic performance and reliability under typical environmental conditions • Industry standard sizes • Omni, Uni, and Noise Canceling • Integrated RF filtering • Multiple terminations available - Solderless, Pin Type, and PCB

Fig.	Physical Size (mm)	Sensitivity @1KHz (dB re 1V/Pa)	Freq. Range (H z)	Standard Operating Voltage	Maximum Operating Voltage	Max. Current Consumption (mA)	S/N Ratio	Built-in Capacitor	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
						Omni-Directional							
1	ø6.0 x 2.2	-42 ±3	100 - 10K	2.0	10	0.500	>52dB	10pF, 33pF	423-1017-ND	1.62	1.46	1.18	MD6022AS-0
1	ø6.0 x 2.7	-42 ±3	100 - 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1045-ND	1.62	1.46	1.18	MB6027AS-1
2	ø6.0 x 3.0	-38 ±4	100 - 10K	3.0	10	0.500	>55dB	None	423-1018-ND	1.62	1.46	1.18	MD6030AS-1
3	ø9.7 x 4.5	-41 ±3	100 - 10K	2.0	10	0.500	>55dB	10pF	423-1024-ND	.73	.66	.53	MD9745APE-1
3	ø6.0 x 2.2	-40 ±3	100 - 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1043-ND	1.91	1.72	1.40	MB6022APE-0
4	ø9.7 x 4.5	-44 ±2	100 - 10K	2.0	10	0.500	>55dB	None	423-1023-ND	.72	.66	.54	MD9745AZ-F
5	ø9.7 x 6.5	-42 ±4	100 - 10K	3.0	10	0.500	>55dB	None	423-1026-ND	.97	.87	.70	MD9765AS-0
9	ø6.0 x 1.3	-44 ±2	100 - 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1041-ND	2.19	1.98	1.60	MB6013ABE-2
9	ø4.0 x 1.5	-42 ±2	100 - 10K	2.0	10	0.500	>55dB	10pF, 33pF	423-1048-ND	3.47	3.13	3.07	MB4015ABE-1
9	ø4.0 x 1.5	-44 ±2	100 - 10K	2.0	10	0.500	>55dB	10pF, 33pF	423-1049-ND	3.47	3.13	3.07	MB4015ABE-2
10	ø4.0 x 1.5	-44 ±2	100 - 10K	2.0	10	0.500	>55dB	10pF, 33pF	423-1050-ND	4.12	3.71	3.63	MB4015ARC-0 (Poly)
11	ø4.0 x 1.5	-44 ±2	100 - 10K	2.0	10	0.500	>55dB	10pF, 33pF	423-1051-ND	3.79	3.41	3.34	MB4015ARC-2 (Shin)
12	ø4.0 x 1.5	-44 ±3	100 - 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1052-ND	3.82	3.44	3.37	MB4015ARC-1 (FPC)
13	ø4.0 x 1.5	-42 ±3	100 - 10K	2.0	10	0.500	>55dB	10pF, 33pF	423-1047-ND	3.65	3.29	3.22	MB4015AS-1
						Noise Canceling							
2	ø6.0 x 3.0	-39 ±4	300 - 6K	3.0	10	0.500	>55dB	None	423-1019-ND	1.46	1.32	1.07	MD6030NSZ-0
6	ø6.0 x 3.0	-37 ±4	300 - 6K	3.0	10	0.500	>55dB	10pF, 33pF	423-1020-ND	4.28	3.86	3.09	MD6030NSC-0
7	ø9.7 x 5.2	-38 ±3	300 - 6K	3.0	10	0.500	>55dB	None	423-1027-ND	2.36	2.13	1.72	MD9752NSZ-0
8	ø6.0 x 2.2	-44 ±3	100 - 10K	2.0	10	0.500	>60dB	10pF, 33pF	423-1046-ND	1.73	1.56	1.26	MB6022NSC-2R
13	ø4.0 x 1.5	-46 ±3	100 - 10K	2.0	10	0.500	>55dB	10pF, 33pF	423-1053-ND	5.21	4.69	4.59	MB4015NSC-3
						Unidirectional							
2	ø6.0 x 5.2	-42 ±3	100 - 10K	2.0	10	0.500	>55dB	None	423-1022-ND	1.83	1.65	1.33	MD6052USZ-1
7	ø9.7 x 5.5	-44 ±2	100 - 10K	1.5	10	0.500	>55dB	None	423-1025-ND	1.65	1.49	1.20	MD9755USZ-1

Fig. 1

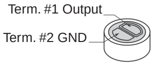

Fig. 2

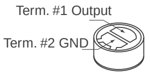

Fig. 3

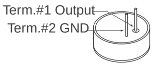

Fig. 4

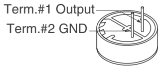

Fig. 5

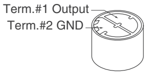

Fig.6

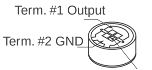

Capacitors mounted on exterior

Fig. 7

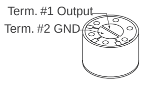

Fig. 8

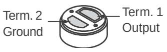

Fig. 9

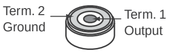

Fig. 10

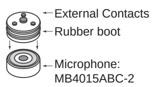

Fig. 11

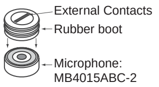

Fig. 12

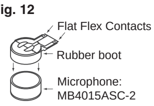

Fig. 13

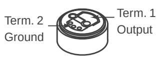

KNOWLES ACOUSTICS

High Performance Audio Products

Omni-Directional Electret Microphones

Dim. in mm.

EA Series: • Integral FET amplifier • Electret condenser microphone • Rugged construction to withstand severe environmental conditions • High resistance to mechanical shock • 3-Wire configuration

EK Series: • Integral FET amplifier • High electroacoustical sensitivity • Low vibration sensitivity • Low noise • 3-Wire configuration

FG Series: • Integral FET amplifier • Wide, flat frequency response • Low noise performance • High electroacoustic sensitivity • 3-Wire configuration

EM Series: • Integral FET amplifier • High electroacoustical sensitivity • Low vibration sensitivity • Low Noise • Small size

WP Series: • Integral FET amplifier • High electroacoustical sensitivity • Low noise • Low vibration sensitivity • Flat response down to very low frequency • Survives submersion in water • 3-Wire configuration

Fig.1

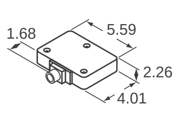

Fig. 2

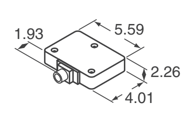

Fig. 3

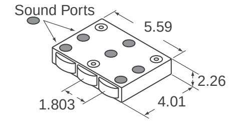

Fig. 4

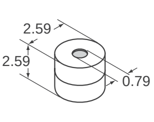

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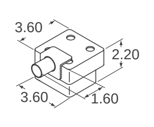

Fig. 6

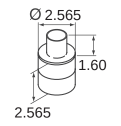

Fig. 7

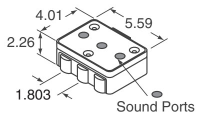

Fig.	Sensitivity @ 1KHz (dB re 1V/Pa)	Sensitivity @ 1KHz (dB re 1V/0.1 Pa)	DC Supply Voltage	Max. Amplifier Current Drain (µA)	Max. "A" Weighted Noise (1KHz Equivalent SPL)	Output Impedance (Ohms)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Knowles Acoustics Part No.
1	-39 ±4	-59 ±4	1.0 - 10	50	28.5 dB	3500	423-1005-ND	19.44	17.52	12.51	EA-1842
	-33 ±3	-53 ±3	1.0 - 10	50	26.0 dB	4400	423-1006-ND	15.62	14.07	10.56	EK-3024
	-33 ±3	-53 ±3	1.0 - 10	50	26.0 dB	4400	423-1007-ND	16.89	15.22	11.46	EK-3027
2	-33 ±3	-53 ±3	1.0 - 10	50	26.0 dB	4400	423-1009-ND	15.60	14.06	12.51	EK-3133
3	-33 ±3	-53 ±3	1.0 - 10	50	26.0 dB	4400	423-1008-ND	18.01	16.23	11.59	EK-3132
4	-33 ±3	-53 ±3	1.0 - 1.6	50	30.0 dB	4400	423-1000-ND	25.25	22.75	16.25	FG-3329
	-33 ±3	—	0.9 - 1.6	50	28.0 dB	4400	423-1063-ND	23.07	20.78	16.38	FG-3629
	-33 ±3	—	0.9 - 1.6	50	28.0 dB	4400	423-1064-ND•	29.56	26.64	19.03	FG-3629-P16
	-43 ±3	—	0.9 - 1.6	50	30.0 dB	4400	423-1067-ND	23.07	20.78	16.38	FG-3742-C05
	-43 ±3	—	0.9 - 1.6	50	30.0 dB	4400	423-1068-ND•	27.45	24.73	19.49	FG-3742-D36
5	-36 ±3	—	0.9 - 10	50	31.0 dB	4400	423-1061-ND	26.98	24.31	17.36	EM-3046
	-36 ±3		0.9 - 10	50	31.0 dB	4400	423-1062-ND•	22.98	20.70	16.32	EM-3046-P16
6	-33 ±3	—	0.9 - 1.6	50	28.0 dB	4400	423-1065-ND	23.07	20.78	16.38	FG-3652-C36
	-33 ±3		0.9 - 1.6	50	28.0 dB	4400	423-1066-ND•	30.23	27.23	19.45	FG-3652-P16
Waterproof Microphone											
7	-34 ±3	-54 ±3	1.0 - 10	50	28.0 dB	4400	423-1012-ND	25.29	22.79	16.28	WP-3502
	-34 ±3	-54 ±3	1.0 - 10	50	28.0 dB	4400	423-1054-ND•	25.29	22.79	16.28	WP-3502-P16

• Has 1 inch long leads

Noise-Canceling Close Talking Microphones

NR Series: • Integral FET amplifier • Diaphragm responds to pressure differential giving high rejection of background noise • Small size • High electroacoustical sensitivity • Low vibration sensitivity

CF Series: • Integral FET amplifier • Diaphragm responds to pressure differential giving high rejection of background noise • Withstands severe environmental conditions • Sound ports protected by woven mesh treated with water repellent • High resistance to mechanical shock

WP Series: • Integral FET amplifier • Survives submersion in 1m water • Corrosion resistant • Withstands explosive decompression • High resistance to mechanical shock • Small size

Dim. in mm.

Fig. 1

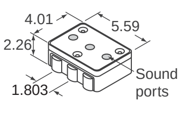

Fig. 2

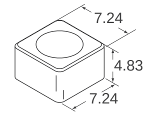

Fig.	Sensitivity @ 1KHz (dB re 1V/Pa)	Sensitivity @ 1KHz (dB re 1V/0.1 Pa)	Microphone Configuration	DC Supply (V)	Max. Amplifier Current Drain (µA)	Nominal Output Imp. (Ohms)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Knowles Acoustics Part No.
1	-32 ±3	-52. ±3	2-Wire	1.0 - 10	200	2500	423-1010-ND	16.86	15.19	11.02	NR-3160
2	-42 ±3	-62 ±3	3-Wire	1.0 - 10	50	3500	423-1014-ND	25.49	22.97	16.41	CF-2949
Waterproof Microphone											
1	-34 ±3	-54 ±3	2-Wire	1.0 - 10	300	2500	423-1011-ND	25.29	22.79	16.28	WP-3501

Piezo Ceramic, Accelerometer, Magnetic Balanced Armature

Dim. in mm.

BL Series: • High sensitivity • Wide frequency range and flat response • Integral FET amplifier • High resistance to mechanical shock • BL-1785 typically used for instrumentation applications • 3-Wire configuration

BU Series: • Ceramic vibration transducer • High vibration sensitivity and small size • Wide frequency range • Internal FET preamplifier • 2 or 3-Wire configuration

BJ Series: • Balanced armature technology • High efficiency, stability and reliability • Self-shielded against external magnetic fields • Small size • Omni-directional • 2-Wire configuration

Fig. 1

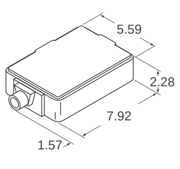

Fig. 2

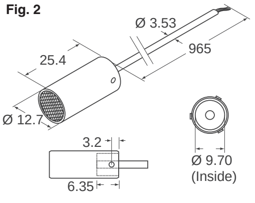

Fig. 3

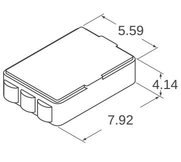

Fig. 4

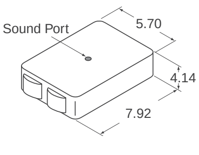

Fig.	Sensitivity @ 1KHz (dB re 1V/Pa)	Sensitivity @ 1KHz (dB re 1V/0.1 Pa)	Sensitivity @ 1KHz (dB re 1V/g)	DC Supply Voltage	Nominal DC Res. (Ohms)	Max. Amplifier Current Drain (µA)	Max. "A" Weighted Noise (1KHz Equivalent SPL)	Output Imp. @ 1KHz (Ohms)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Knowles Acoustics Part No.
Piezo Ceramic Microphones													
1	-49 ±3	-69 3±3	—	3.0	—	160	34.0dB	4000	423-1003-ND	72.47	65.29	46.64	BL-1785
2	-49 ±3	-69 ±3	—	3.0	—	160	34.0dB	4000	423-1002-ND	94.84	85.19	67.64	BL-1994
Accelerometer (Vibration-Sensing Transducer)													
3	—	—	-45.0 ±4.5	1.5 - 10	—	50	—	5200	423-1004-ND	51.26	46.18	32.99	BU-1771
Magnetic Balanced Armature													
4	-55.5 ±3	-75.5 ±3	—	—	900	—	—	3900	423-1001-ND	27.82	25.07	17.91	BJ-1590

(Continued)

High Performance Audio Products *(Cont.)*
Specialty Speakers

Dim. in mm.

CB Series: • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • Excellent sound quality • High speech intelligibility • Suitable for PCB mounting • Can function as a microphone or beeper • Stainless steel enclosure • 3 Position male header attached **CM Series:** • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High acoustic efficiency enables sufficient sound output even when limited power is available • In-built static protection • Lightweight, matt-black, plastic housing • Ergonomically designed with rounded edge to fit the concha • High-quality sound output • Tailored bandwidth for superb speech intelligibility • Rugged construction • 2 Position flexi-circuit attached **MR Series:** • Highly waterproof no loss of performance after immersion in 15m water • Corrosion resistant • Withstands explosive decompression • Excellent environmental performance • High resistance to mechanical shock • 3 Wire leads attached **BK Series:** • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High sensitivity • Low distortion • Self shielded for low magnetic radiation **CI Series:** • High sensitivity, wide bandwidth response • Low distortion • Self shielded for low magnetic radiation **ED Series:** • Balanced-armature, magnetic technology to give high efficiency, stability and reliability • High sensitivity • Low distortion • Self shielded for low magnetic radiation

Fig. 1

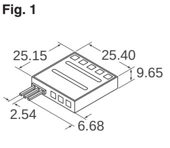

Fig. 2

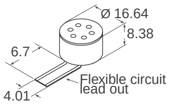

Fig. 3

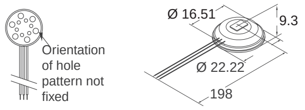

Fig. 4

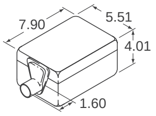

Fig. 5

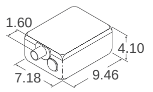

Fig. 6

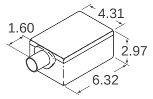

Fig.	Nominal DC Resistance (Ohms)	Impedance @ Frequency	Sound Port Location	Nominal Output @ 1KHz, Distance= 30cm (dB SPL)	Nominal Output @ 1KHz, Sealed to IEC 318 Coupler (dB SPL)	Distortion Max %	@ Hz	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
Handset Tranceiver												
1	4.2	12@1KHz	Top Edge	73	—	15	500	423-1030-ND	20.27	18.26	13.05	CB-2844
	4.2	12@1KHz	Face	73	—	15	500	423-1033-ND	20.27	18.26	13.05	CB-2846
	11.5	24@1KHz	Face	73	—	15	500	423-1034-ND	20.27	18.26	13.05	CB-2847
	21.5	48@1KHz	Face	73	—	15	500	423-1035-ND	20.27	18.26	13.05	CB-2848
	11.5	24@1KHz	Top Edge	73	—	15	500	423-1031-ND	20.27	18.26	13.05	CB-2849
	21.5	48@1KHz	Top Edge	73	—	15	500	423-1032-ND	20.27	18.26	13.05	CB-2850
Headset Speaker — Flexi-Circuit												
2	65	150@1KHz	—	—	103	2	300	423-1036-ND	20.59	18.55	13.25	CM-3152
	8.5	30@1KHz	—	—	103	2	300	423-1037-ND	20.59	18.55	13.25	CM-8431
Headset Speaker — Wire Lead Out												
3	10	211@KHz	—	—	100	5	300	423-1038-ND	56.21	50.65	36.18	MR-3243
Balanced Armature Speakers												
4	10.7	13.3@500Hz	—	—	—	10	500	423-1055-ND	16.77	15.11	11.91	BK-8507
	10.7	13.3@500Hz	—	—	—	10	500	423-1056-ND•	19.92	17.95	14.14	BK-8507-P16
5	20.0	45@500Hz	—	—	—	3.5	500	423-1057-ND	23.35	21.04	16.58	CI-2955
	20.0	45@500Hz	—	—	—	3.5	500	423-1058-ND•	26.85	24.19	19.07	CI-2955-P16
6	3.32	10.2@500Hz	—	—	—	5.0	800	423-1059-ND	21.70	19.55	15.41	ED-3619
	3.32	10.2@500Hz	—	—	—	5.0	800	423-1060-ND•	24.95	22.48	17.72	ED-3619-P16

• Has 1 inch long leads

SiSonic™ Silicon Microphone

Dim. in mm.

Features: • Surface mount microphone • Compatible with standard surface mount soldering process • Automated pick 'n' place using standard equipment • No off-line soldering or insertion • Highly shock resistant • Low vibration sensitivity • Operation at high and low temperature • Ability to integrate additional electronics into package • Omni-directional • **Applications:** • Cellular phones • Corded and cordless telephones • PCs, PC tablets, laptops • PDAs, MP3 players • Automotive and automotive accessories • General electronics **Sisonic Zero-Height:** • SiSonic "Zero Height" shrinks product thickness by up to 30% • Minimizes distance between PCB and mobile device housing • Ideal for microphone placement on reverse side of PCB, while maintaining acoustic port on top side of mobile device, for clamshell phone designs • Enables the thinnest, highest density product designs • Integrated Amplified version increases output signal by up to 20dB **SiSonic Mini:** • New Mini SiSonic with a footprint less than 18mm² reduces manufacturing costs and brings greater design flexibility • Rugged, solid state design process for stable acoustic performance under extreme conditions such as temperature, shock and vibration • Flexible package design allows for future product enhancements and integration of additional components • Integrated Amplified version increases output signal by up to 20dB

Fig. 1 — SiSonic Standard

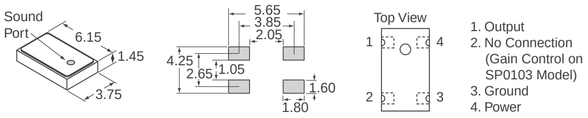

Note: No board washing after solder re-flow

Fig. 2 — SiSonic Zero - Height

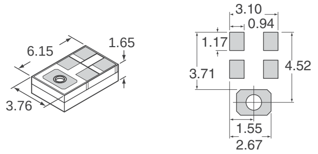

Fig. 3 — SiSonic Mini

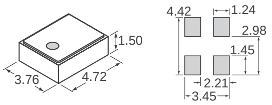

Fig.	Sensitivity @1KHz (dB re 1V/Pa)	Voltage DC	Maximum Current Consumption	S/N Ratio Min. @ 1KHz	Typical Operating Temperature	Built-in Capacitor	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Knowles Acoustics Part No.
1	-42 ±4	1.5 ~ 5.5V	<0.250mA @ 5.5VDC	>55dB	-40° - 100°C	10pF, 33pF	423-1039-1-ND	6.00	5.28	4.40	423-1039-2-ND	1,200	3880.00/M	SP0102NC3-2
	-22 ±4	1.5 ~ 5.5V	<0.350mA @ 5.5VDC	>55dB	-40° - 100°C	10pF, 33pF	423-1040-1-ND	6.90	6.08	5.06	423-1040-2-ND	1,200	4462.01/M	SP0103NC3-2
2	-42 ±4	1.5 ~ 5.5V	<0.250mA @ 5.5VDC	<55dB	-40° - 100°C	—	423-1069-1-ND	4.46	3.05	2.43	423-1069-2-ND	900	1880.10	SP0102BE3-5
	-22 ±4	1.5 ~ 5.5V	<0.350mA @ 5.5VDC	<59dB	-40° - 100°C	—	423-1074-1-ND	6.50	6.08	5.22	423-1074-2-ND	900	3827.69	SP0103BE3-5
3	-42 ±4	1.5 ~ 5.5V	<0.250mA @ 5.5VDC	<59dB	-40° - 100°C	—	423-1070-1-ND	6.00	5.07	4.36	423-1070-2-ND	1,200	3546.00/M	SPM0102ND3-2
	-42 ±4	1.5 ~ 5.5V	<0.250mA @ 5.5VDC	<59dB	-40° - 100°C	—	423-1071-1-ND	6.50	5.57	4.79	423-1071-2-ND	1,200	3897.01/M	SPM0102NE3-2
	-22 ±4	1.5 ~ 5.5V	<0.350mA @ 5.5VDC	<59dB	-40° - 100°C	—	423-1072-1-ND	6.50	5.57	4.79	423-1072-2-ND	1,200	3897.01/M	SPM0103ND3-2
	-22 ±4	1.5 ~ 5.5V	<0.350mA @ 5.5VDC	<59dB	-40° - 100°C	—	423-1073-1-ND	6.50	6.08	5.22	423-1073-2-ND	1,200	4253.00/M	SPM0103NE3-2

Waterproof Acoustical Transducers

Dim. in mm.

MR Series: • Highly waterproof, no loss of performance after immersion in 15m water • Corrosion resistant • Withstands explosive decompression • Excellent environmental performance • High resistance to mechanical shock • Wire leads attached

Fig. 1

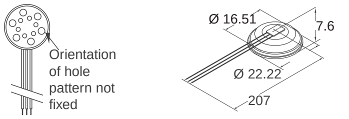

Fig. 2

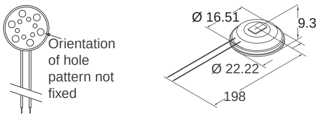

Fig.	Sensitivity @ 1 KHz (dB re 1V/Pa)	(dB re 1V/0.1 Pa)	DC Supply Voltage	Max. Amplifier Current Drain (µA)	DCR @ 20 dC ±10% (Ohms)	Max. "A" Weighted Noise (1KHz Equivalent SPL)	Load Condition (Ohms)	Output Imp. @ 1KHz (Ohms)	Digi-Key Part No.	Price Each 1	10	100	Knowles Acoustics Part No.
Electret Microphone													
1	-41 ±4	-61 ±4	1.0 - 20	50	—	30	10K	3.5K	423-1016-ND	41.98	37.83	30.60	MR-8406
Magnetic Microphone													
2	-67.5 ±3	-87.5 ±3	—	—	75.5	—	300	300	423-1015-ND	30.49	27.47	26.31	MR-3151

LMB HEEGER

Aluminum Enclosures

Fig. 1

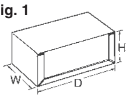

Aluminum Boxes: • .040” (1.02mm) Plain aluminum • Screw fastening, punched and tapped

Fig. 2

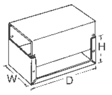

Snap Together Aluminum Boxes: • .040” (1.02mm) Plain aluminum • An ideal box for construction where screws cannot be used and where access to the box must be quick and often. T he catches hold the box together tightly

Crown Royal Series Chassis: • Versatile and rugged construction • Constructed of .050” (1.27mm) aluminum, Type 3003-H14 • Plain aluminum • Screws included

Fig. 3

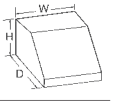

Fig. 4

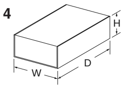

Fig. 3 - Aluminum Consoles: • Plain aluminum • The length of the Flat Top of the MDC Series is 1/2 the total depth

Figs. 3 and 4 - Uni-Cab Universal Cabinet System: • Bases are .090 (2.29mm) aluminum. Covers are .063” (1.60mm) aluminum, Type 3003-H14 metal • Pem nuts used throughout for longer life and ease of assembly and disassembly • All parts are primed to protect the metal against the elements and to serve as a paint base. Bases are finished in textured blue, covers are finished in semi-gloss white • The base is approximately 1/4” (6.35mm) larger than the cover dimensions

Fig. 5

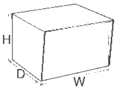

Small Cabinets: • Finished in Grey • By removing four screws in bottom, cover slides off for easy access to interior of enclosure • A housing for small instruments, amplifiers, intercoms, public address systems, and for any small or medium sized item that is being prepared for the market and where price and appearance is a major factor

Fig. 6

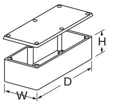

Die Cast Enclosures: Easily machined units useful as instrument and meter cases • Close-fitted flange lids fasten to bosses in the body with counter sunk screws • Aluminum alloy (380) offers excellent screening properties. • Lid adds .156” (3.96mm) to height of enclosure.

Fig. 7

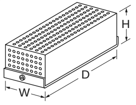

LMB Perforated Box Chassis: • LMB perforated boxes are adaptable wherever heat dissipation is required, as well as utmost shielding • Plain aluminum

Fig. 8

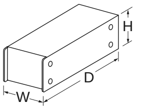

UNI-PAC Universal Packaging System: A quality cabinet, engineered for versatility and value, at an affordable price. The Uni-Pac is constructed with .063” (1.60mm) aluminum, with .125” (3.18mm) aluminum sides and four adhesive rubber feet. The top, bottom, and sides are finished in textured blue, the front and rear panels are finished in semi-gloss white. • Interchangeable front, back, top and bottom panels

Fig. 9

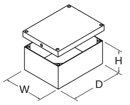

Cap Cover Chassis: • Cap cover construction enables the builder to use either the top or the bottom of the chassis for construction • Chassis can also be mounted on its side and construction can be on both top and bottom at the same time • Built from Aircraft quality .040” (1.02mm) aluminum, Type 3003-H14 • Plain aluminum

Fig.10

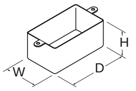

Drawn Miniature Box: • Cold rolled steel, with mounting ears • Made of steel only • Covers are soldered-in when used in assembly • Not fabricated (holes punched in the box) • Plain steel

Dimensions – Inches (mm) D x W x H	Digi-Key Part No.	Pricing 1	10	100
Fig. 1 - Aluminum Boxes				
2.75 x 2.13 x 2.75 (69.85 x 53.98 x 69.85)	L100-ND	5.84	48.47	438.00
3.50 x 2.13 x 1.63 (88.90 x 53.98 x 41.28)	L101-ND	18.18	150.89	1363.50
4.00 x 2.25 x 2.25 (101.60 x 57.15 x 57.15)	L102-ND	7.04	58.43	528.00
5.00 x 2.25 x 2.25 (127.00 x 57.15 x 57.15)	L103-ND	7.56	62.75	567.00
5.00 x 4.00 x 3.00 (127.00 x 101.60 x 76.20)	L104-ND	10.56	87.65	792.00
6.00 x 5.00 x 4.00 (152.40 x 127.00 x 101.60)	L105-ND	14.76	122.51	1107.00
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L106-ND	14.94	124.00	1120.50
8.00 x 6.00 x 3.50 (203.20 x 152.40 x 88.90)	L107-ND	18.18	150.89	1363.50
10.00 x 6.00 x 3.50 (254.00 x 152.40 x 88.90)	L108-ND	21.50	178.45	1612.50
12.00 x 7.00 x 4.00 (304.80 x 177.80 x 101.60)	L109-ND	29.86	247.84	2239.50
17.00 x 5.00 x 4.00 (431.80 x 127.00 x 101.60)	L110-ND	32.80	272.24	2460.00
Fig. 2 - Aluminum Boxes (Snap-Together)				
2.75 x 2.13 x 1.63 (69.85 x 53.98 x 41.28)	L111-ND	5.18	42.99	388.50
2.75 x 2.13 x 2.75 (69.85 x 53.98 x 69.85)	L112-ND	5.84	48.47	438.00
3.25 x 2.13 x 1.13 (82.55 x 53.98 x 28.58)	L113-ND	5.18	42.99	388.50
4.00 x 2.13 x 1.63 (101.60 x 53.98 x 41.28)	L114-ND	5.84	48.47	438.00
4.00 x 2.00 x 2.75 (101.60 x 50.80 x 69.85)	L115-ND	7.06	58.60	529.50
5.00 x 2.25 x 2.25 (127.00 x 57.15 x 57.15)	L116-ND	7.56	62.75	567.00
5.00 x 4.00 x 3.00 (127.00 x 101.60 x 76.20)	L117-ND	10.56	87.65	792.00
6.00 x 5.00 x 4.00 (152.40 x 127.00 x 101.60)	L118-ND	14.76	122.51	1107.00
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L119-ND	14.94	124.00	1120.50
8.00 x 6.00 x 3.50 (203.20 x 152.40 x 88.90)	L120-ND	18.18	150.89	1363.50
10.00 x 6.00 x 3.50 (254.00 x 152.40 x 88.90)	L121-ND	21.50	178.45	1612.50
Fig. 2 - Crown Royal Series Aluminum Boxes				
2.25 x 1.50 x 1.38 (57.15 x 38.10 x 35.05)	L198-ND	6.20	51.46	465.00
4.25 x 2.25 x 1.25 (107.95 x 57.15 x 31.75)	L199-ND	8.44	70.05	633.00
5.50 x 3.00 x 1.25 (139.70 x 76.20 x 31.75)	L200-ND	11.66	96.78	874.50
5.25 x 3.00 x 2.13 (133.35 x 76.20 x 53.98)	L201-ND	12.22	101.43	916.50
6.25 x 3.50 x 2.13 (158.75 x 88.90 x 53.98)	L202-ND	15.36	127.49	1152.00
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L203-ND	23.18	192.39	1738.50
8.00 x 6.00 x 4.50 (203.20 x 152.40 x 114.30)	L204-ND	31.26	259.46	2344.50
Fig. 3 - Aluminum Consoles				
4.00 x 3.00 x 2.00 (101.60 x 76.20 x 50.80)	L122-ND	9.62	79.85	721.50
5.00 x 3.00 x 2.00 (127.00 x 76.20 x 50.80)	L123-ND	11.08	91.96	831.00
6.00 x 4.00 x 2.25 (152.40 x 101.60 x 57.15)	L124-ND	13.24	109.89	993.00
7.00 x 5.00 x 2.50 (177.80 x 127.00 x 63.50)	L125-ND	15.26	126.66	1144.50
8.00 x 6.00 x 2.75 (203.20 x 152.40 x 69.85)	L126-ND	20.06	166.50	1504.50
9.00 x 7.00 x 3.00 (228.60 x 177.80 x 76.20)	L127-ND	22.06	183.10	1654.50
10.00 x 4.50 x 2.50 (254.00 x 114.30 x 63.50)	L128-ND	19.78	164.17	1483.50
11.00 x 8.00 x 3.50 (279.40 x 203.20 x 88.90)	L129-ND	33.02	274.07	2476.50
13.00 x 10.00 x 4.00 (330.20 x 254.00 x 101.60)	L130-ND	44.82	372.01	3361.50
15.00 x 15.00 x 4.50 (381.00 x 381.00 x 114.30)	L131-ND	73.08	606.56	5481.00
Fig. 3 - Uni-Cab Universal Cabinet System				
5.00 x 5.00 x 1.75 (127.00 x 127.00 x 44.45)	L155-ND	29.92	248.34	2244.00
6.00 x 6.00 x 2.75 (152.40 x 152.40 x 69.85)	L156-ND	38.24	317.39	2868.00
7.00 x 6.00 x 3.50 (177.80 x 152.40 x 88.90)	L157-ND	40.76	338.31	3057.00
5.00 x 7.00 x 3.00 (127.00 x 177.80 x 76.20)	L158-ND	37.78	313.57	2833.50
6.00 x 6.00 x 5.00 (152.40 x 152.40 x 127.00)	L159-ND	43.74	363.04	3280.50
10.00 x 10.00 x 3.00 (254.00 x 254.00 x 76.20)	L161-ND	60.34	500.82	4525.50
10.00 x 12.00 x 4.00 (254.00 x 304.80 x 101.60)	L162-ND	74.76	620.51	5607.00
Fig. 4 - Uni-Cab Universal Cabinet System				
6.00 x 4.00 x 2.00 (152.40 x 101.60 x 50.80)	L154-ND	32.90	273.07	2467.50
10.00 x 6.00 x 4.00 (254.00 x 152.40 x 101.60)	L160-ND	48.28	400.72	3621.00
Fig. 5 - Small Cabinets				
5.00 x 6.00 x 4.00 (127.00 x 152.40 x 101.60)	L147-ND	30.00	249.00	2250.00
6.00 x 8.00 x 5.00 (152.40 x 203.20 x 127.00)	L148-ND	44.04	365.53	3303.00

Dimensions – Inches (mm) D x W x H	Digi-Key Part No.	Pricing 1	10	100
Fig. 6 - Die Cast Enclosures				
3.63 x 1.50 x 1.06 (92.20 x 38.10 x 26.99)	L149-ND	9.08	75.36	681.00
4.38 x 2.38 x 1.06 (111.13 x 60.33 x 26.99)	L150-ND	10.26	85.16	769.50
4.69 x 3.69 x 2.06 (119.08 x 93.65 x 52.40)	L151-ND	16.40	136.12	1230.00
7.39 x 4.70 x 2.06 (187.73 x 119.46 x 52.40)	L152-ND	26.08	216.46	1956.00
7.39 x 4.70 x 3.06 (187.73 x 119.46 x 77.80)	L153-ND	28.12	233.40	2109.00
Fig. 7 - LMB Perforated Box Chassis				
4.25 x 2.25 x 1.25 (107.95 x 57.15 x 31.75)	L164-ND	8.68	72.04	651.00
4.00 x 2.25 x 2.25 (101.60 x 57.15 x 57.15)	L167-ND	11.80	97.94	885.00
3.75 x 3.00 x 2.13 (95.25 x 76.20 x 53.98)	L169-ND	12.02	99.77	901.50
5.25 x 3.00 x 2.13 (133.35 x 76.20 x 53.98)	L170-ND	13.62	113.05	1021.50
8.00 x 3.00 x 2.75 (203.20 x 76.20 x 69.85)	L171-ND	19.94	165.50	1495.50
6.25 x 3.50 x 2.13 (158.75 x 88.90 x 53.98)	L172-ND	17.18	142.59	1288.50
5.50 x 3.00 x 1.25 (139.70 x 76.20 x 31.75)	L173-ND	13.16	109.23	987.00
3.00 x 4.00 x 5.00 (76.20 x 101.60 x 127.00)	L174-ND	17.60	146.08	1320.00
6.00 x 4.00 x 3.00 (152.40 x 101.60 x 76.20)	L175-ND	20.48	169.98	1536.00
6.00 x 4.00 x 5.00 (152.40 x 101.60 x 127.00)	L176-ND	24.88	206.50	1866.00
4.00 x 4.00 x 2.00 (101.60 x 101.60 x 50.80)	L177-ND	13.34	110.72	1000.50
10.00 x 4.00 x 2.50 (254.00 x 101.60 x 63.50)	L178-ND	25.78	213.97	1933.50
7.00 x 5.00 x 3.00 (177.80 x 127.00 x 76.20)	L179-ND	25.58	212.31	1918.50
8.00 x 6.00 x 4.50 (203.20 x 152.40 x 114.30)	L180-ND	35.86	297.64	2689.50
Fig. 8 - UNI-PAC Universal Packaging System				
7.00 x 12.00 x 1.75 (177.80 x 304.80 x 44.45)	L181-ND	81.38	675.45	6103.50
9.00 x 12.00 x 3.50 (228.60 x 304.80 x 88.90)	L182-ND	99.88	829.00	7491.00
9.00 x 17.00 x 3.50 (228.60 x 431.80 x 88.90)	L183-ND	116.44	966.45	8733.00
12.00 x 17.00 x 3.50 (304.80 x 431.80 x 88.90)	L184-ND	136.08	1129.46	10206.00
7.00 x 14.00 x 5.25 (177.80 x 355.60 x 133.35)	L185-ND	107.26	890.26	8044.50
9.00 x 17.00 x 5.25 (228.60 x 431.80 x 133.35)	L186-ND	129.62	1075.85	9721.50
12.00 x 17.00 x 5.25 (304.80 x 431.80 x 133.35)	L187-ND	152.82	1268.41	11461.50
12.00 x 17.00 x 7.00 (304.80 x 431.80 x 177.80)	L188-ND	155.46	1290.32	11659.50
14.00 x 17.00 x 7.00 (355.60 x 431.80 x 177.80)	L189-ND	186.66	1549.28	13999.50
Fig. 9 - Cap Cover Chassis				
5.00 x 7.00 x 2.00 (127.00 x 177.80 x 50.80)	L190-ND	21.82	181.11	1636.50
5.00 x 7.00 x 3.00 (127.00 x 177.80 x 76.20)	L191-ND	23.50	195.05	1762.50
6.00 x 4.00 x 3.00 (152.40 x 101.60 x 76.20)	L192-ND	21.02	174.47	1576.50
7.00 x 10.00 x 3.00 (177.80 x 254.00 x 76.20)	L193-ND	33.60	278.88	2520.00
8.00 x 10.00 x 2.00 (203.20 x 254.00 x 50.80)	L194-ND	30.62	254.15	2296.50
8.00 x 10.00 x 3.00 (203.20 x 254.00 x 76.20)	L195-ND	35.08	291.16	2631.00
8.00 x 10.00 x 4.00 (203.20 x 254.00 x 101.60)	L196-ND	37.88	314.40	2841.00
8.00 x 12.00 x 3.00 (203.20 x 304.80 x 76.20)	L197-ND	38.90	322.87	2917.50
Fig. 10 - Drawn Miniature Box with Ears (Lids Sold Separately)				
1.75 x 1.25 x .88 (44.45 x 31.75 x 22.23)	L206-ND	1.94	16.10	145.50
2.00 x 1.75 x .75 (50.80 x 44.45 x 19.05)	L208-ND	1.94	16.10	145.50
2.00 x 1.75 x 1.00 (50.80 x 44.45 x 25.40)	L210-ND	1.94	16.10	145.50
2.00 x 2.00 x 1.25 (50.80 x 50.80 x 31.75)	L212-ND	1.94	16.10	145.50
Optional Lids for Drawn Miniature Boxes				
Lid for L206-ND Box	L205-ND	1.34	11.12	100.50
Lid for L208-ND Box	L207-ND	1.34	11.12	100.50
Lid for L210-ND Box	L209-ND	1.34	11.12	100.50
Lid for L212-ND Box	L211-ND	1.34	11.12	100.50

ISO 9002 CERTIFIED MANUFACTURER

KEYSTONE ELECTRONICS CORP

Instrument Boxes

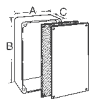

• **Panels:** Mount flush inside of case, holes drilled in panel positioned for the inserts • **Phenolic Panel:** .062” thick glossy black MIL-P-3115C • **Aluminum Panel:** .062” thick, #5052-H34 per QQ 318 C • **Boxes:** Precision molded with rounded outside corners, and ≤ 3/16” x 3/16” (4.76mm x 4.76mm) deep threaded brass inserts in base.

Note 1: 703 and 704 have 4-40 tapped hole in each corner - no inserts
Note 2: 705 mounting holes untapped - Use #4 self tapping screw.

Dimensions Inches (mm) A	 B	 C	Case Only Digi-Key Part No.	 Price Each	Black Phenolic Panel Only Digi-Key Part No.	 Price Each	Aluminum Panel Only Digi-Key Part No.	 Price Each
2.88 (73.15)	4.00 (101.60)	1.56 (39.62)	703K-ND	3.27	2042K-ND	1.40	2044K-ND	2.05
2.88 (73.15)	4.00 (101.60)	1.56 (39.62)	705K-ND	3.22	2042K-ND	1.40	2044K-ND	2.05
3.13 (79.50)	5.88 (149.35)	2.25 (57.15)	704K-ND	9.36	2043K-ND	2.15	2045K-ND	3.35
3.75 (95.25)	6.25 (158.75)	2.00 (50.80)	700K-ND	7.41	*2037K-ND	3.22	2046K-ND	3.06
5.25 (133.35)	6.81 (172.97)	2.31 (58.67)	701K-ND	13.59	*2038K-ND	4.47	2047K-ND	4.17
7.38 (187.45)	8.38 (212.85)	3.00 (76.20)	702K-ND	23.67	*2039K-ND	9.75	2048K-ND	9.36

* .093” Thick

Instrument Boxes

Economical cases molded of high impact material. Mating cover has interlocking flange on lid, countersunk holes for flush mounting. Internal grooved guides to hold PC boards and circuit cards from .062 to .093 thick. Ideal for prototype or production usage. • Low cost • Sturdy construction

Cases supplied with cover and mounting screws

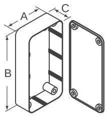

Dimensions Inches (mm) A	 B	 C	Color/ Material	Digi-Key Part No.	Price Each 1	 10	 100
2.50 (63.50)	4.75 (120.65)	1.40 (35.56)	Blue Styrene	762K-ND	4.81	4.44	2.61
2.88 (73.03)	4.00 (101.60)	1.56 (39.67)	Black ABS	706K-ND	6.87	6.42	4.33
3.75 (95.25)	6.25 (158.75)	2.00 (50.80)	Black ABS	707K-ND	10.80	10.08	6.79
4.33 (109.98)	7.50 (190.50)	2.22 (56.39)	Blue Styrene	764K-ND	8.84	8.16	4.83

GC ELECTRONICS™

Nibbler Tool

For Panels, Boxes

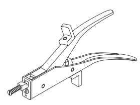

Spring loaded nibbling tool for cutting plastic and metal. Cut from the side or from a single .375” (9.52mm) hole. Will cut up to 18 AWG steel or .062” (1.57mm) copper, brass, aluminum or plastics.

GC395-ND Nibbler Tool.... **$12.55**

SERPAC Electronic Enclosures

R-Series Enclosures

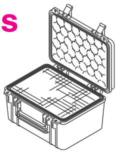

Features:

- SR-RX = Flame Retardant, UV protected, Chemical resistant
- Unbreakable light-weight structural resin
- O-Ring watertight/airtight seal
- Pressure purge valve under latch
- Ergonomic handle
- Corrosion proof
- Material: SR-R Polypropylen, SR-RX PVC

Dimensions — L x W x H (Inch)		Digi-Key	Price Each		Serpac
Internal	External	Part No.	1	10	Model No.
R-Series Case					
Without Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-☐-ND	17.48	14.57	R-120
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-☐-ND	26.84	22.37	R-300
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-☐-ND	51.76	43.14	R-520
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-☐-ND	84.56	70.50	R-710
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-☐-ND	84.56	70.47	R-720
With Plastic Lock Without Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-PLL☐-ND	28.24	23.54	R-120 PLL
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-PLL☐-ND	37.60	31.34	R-300 PLL
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-PLL☐-ND	62.52	52.11	R-520 PLL
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-PLL☐-ND	89.92	74.97	R-710 PLL
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-PLL☐-ND	89.92	74.94	R-720 PLL
With Metal Lock Without Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-MLL☐-ND	32.54	27.12	R-120 MLL
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-MLL☐-ND	41.90	34.92	R-300 MLL
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-MLL☐-ND	66.82	55.69	R-520 MLL
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-MLL☐-ND	99.62	83.05	R-710 MLL
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-MLL☐-ND	99.62	83.02	R-720 MLL
With Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-F☐-ND	19.54	16.29	R-120 FOAM
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-F☐-ND	31.56	26.31	R-300 FOAM
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-F☐-ND	59.12	49.27	R-520 FOAM
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-F☐-ND	97.88	81.60	R-710 FOAM
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-F☐-ND	97.88	81.57	R-720 FOAM
With Plastic Lock With Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-PLLF☐-ND	30.30	25.26	R-120 PLL FOAM
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-PLLF☐-ND	42.32	35.27	R-300 PLL FOAM
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-PLLF☐-ND	69.88	58.24	R-520 PLL FOAM
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-PLLF☐-ND	108.64	90.57	R-710 PLL FOAM
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-PLLF☐-ND	108.64	90.54	R-720 PLL FOAM
With Metal Lock With Foam Insert					
7.3 x 5.00 x 3.23	8.70 x 7.45 x 3.89	SR-R120-MLLF☐-ND	34.60	28.84	R-120 MLL FOAM
9.59 x 7.42 x 3.98	10.80 x 9.85 x 4.87	SR-R300-MLLF☐-ND	46.62	38.86	R-300 MLL FOAM
13.49 x 9.78 x 6.00	14.85 x 12.15 x 6.85	SR-R520-MLLF☐-ND	74.18	61.82	R-520 MLL FOAM
18.29 x 13.19 x 4.57	19.75 x 15.53 x 5.41	SR-R710-MLLF☐-ND	112.94	94.16	R-710 MLL FOAM
18.29 x 13.19 x 6.62	19.75 x 15.53 x 7.48	SR-R720-MLLF☐-ND	112.94	94.12	R-720 MLL FOAM
RX-Series Black Case					
Without Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-B-ND	28.96	24.14	RX-120 BLACK
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-B-ND	44.58	37.16	RX-300 BLACK
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-B-ND	82.62	68.86	RX-520 BLACK
18.29 x 13.19 x 4.67	20.10 x 15.80 x 5.51	SR-RX710-B-ND	147.56	123.02	RX-710 BLACK
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-B-ND	135.06	112.56	RX-720 BLACK
With Plastic Lock Without Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-PLLB-ND	39.72	33.11	RX-120 PLL BLACK
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-PLLB-ND	55.34	46.12	RX-300 PLL BLACK
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-PLLB-ND	93.38	77.82	RX-520 PLL BLACK
18.29 x 13.19 x 4.67	20.10 x 15.80 x 5.51	SR-RX710-PLLB-ND	145.82	121.57	RX-710 PLL BLACK
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-PLLB-ND	145.82	121.53	RX-720 PLL BLACK
With Metal Lock Without Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-MLLB-ND	44.02	36.69	RX-120 MLL BLACK
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-MLLB-ND	59.64	49.71	RX-300 MLL BLACK
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-MLLB-ND	97.68	81.41	RX-520 MLL BLACK
18.29 x 13.19 x 4.67	20.10 x 15.80 x 5.51	SR-RX710-MLLB-ND	150.10	125.14	RX-710 MLL BLACK
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-MLLB-ND	150.10	125.09	RX-720 MLL BLACK
With Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-FB-ND	32.40	27.01	RX-120 BLACK FOAM
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-FB-ND	52.46	43.72	RX-300 BLACK FOAM
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-FB-ND	94.40	78.67	RX-520 BLACK FOAM
18.29 x 13.19 x 4.67	20.10 x 15.80 x 5.51	SR-RX710-FB-ND	151.12	125.99	RX-710 BLACK FOAM
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-FB-ND	151.12	125.94	RX-720 BLACK FOAM
With Plastic Lock With Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-PLLFB-ND	43.16	35.97	RX-120 PLL BLACK FOAM
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-PLLFB-ND	63.22	52.69	RX-300 PLL BLACK FOAM
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-PLLFB-ND	105.16	87.64	RX-520 PLL BLACK FOAM
18.29 x 13.19 x 4.67	20.10 x 15.80 x 5.51	SR-RX710-PLLFB-ND	161.88	134.96	RX-710 PLL BLACK FOAM
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-PLLFB-ND	152.88	127.41	RX-720 PLL BLACK FOAM
With Metal Lock With Foam Insert					
7.73 x 5.1 x 3.3	8.88 x 7.59 x 3.97	SR-RX120-MLLFB-ND	47.46	39.56	RX-120 MLL BLACK FOAM
9.61 x 7.42 x 4.15	10.90 x 9.9 x 4.92	SR-RX300-MLLFB-ND	67.52	56.27	RX-300 MLL BLACK FOAM
13.72 x 10.07 x 6.14	15.11 x 12.40 x 6.94	SR-RX520-MLLFB-ND	109.46	91.22	RX-520 MLL BLACK FOAM
18.29 x 13.19 x 4.67	20.10 x 15.80 x 5.51	SR-RX710-MLLFB-ND	166.18	138.54	RX-710 MLL BLACK FOAM
18.56 x 13.39 x 6.72	20.04 x 15.76 x 7.59	SR-RX720-MLLFB-ND	166.18	138.49	RX-720 MLL BLACK FOAM

Note: ☐ = Case Color: **B** = Black; **G** = Gray; **Y** = Yellow; **O** = Orange

Description	Series	Digi-Key Part No.	Price Each 1	10	Serpac Model No.
3-Piece Replacement Foam Sets for R and RX Series Cases					
Replacement Foam Sets	120	SR9100-ND	15.97	12.68	9100
	300	SR9300-ND	18.84	14.95	9300
	520	SR9500-ND	30.84	24.48	9500
	710	SR9710-ND	40.89	32.45	9710
	720	SR9700-ND	62.84	49.88	9700

Description	Series	Digi-Key Part No.	Price Each 1	10	Serpac Model No.
"R" Series Panel Kits					
Top Plate	R120	SR7150T-ND	18.28	15.24	7150T
	R300	SR7350T-ND	25.92	21.61	7350T
	R520	SR7550T-ND	30.04	25.04	7550T
	R710 / R720	SR7750T-ND	39.14	32.62	7750T
Bottom Plate	R120	SR7150B-ND	21.02	17.52	7150B
	R300	SR7350B-ND	27.64	23.04	7350B
	R520	SR7550B-ND	32.80	27.34	7550B
	R710 / R720	SR7750B-ND	41.72	34.77	7750B

Note: Hardware supplied with kits. Bottom plate kit includes perimeter seal and o-rings. Panel kits for R-Series only.

Flambeau® INDUSTRIAL PRODUCTS & PACKAGING SOLUTIONS

Plastic Storage Systems

Fig. 1

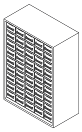

Fig. 2

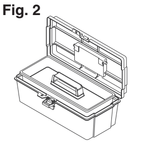

Fig. 3

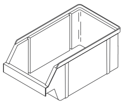

Fig. 4

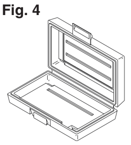

Plastic Frame Storage Cabinets

Sturdy shell and drawer rail structure for extra strength. These rugged cabinets can be stacked or wall mounted for greater storage flexibility. Drawers are in clear styrene resin for optimum visibility and speedy retrieval of contents. Each cabinet features drawer stops to prevent accidental spills.

Fig.	Dimensions – Inch (mm)			Compart-ments	Digi-Key	Price Each			Flambeau
	L	W	D		Part No.	1	10	100	Model No.
1	11.25 (285.75)	12 (304.8)	6 (152.4)	20	510-1013-ND	22.98	19.08	17.58	C20P
	16.50 (419.10)	12 (304.8)	6 (152.4)	26	510-1015-ND	31.14	25.85	23.83	C26P
	11.25 (285.75)	12 (304.8)	6 (152.4)	30	510-1022-ND	22.98	19.08	17.58	U30P
	16.50 (419.10)	12 (304.8)	6 (152.4)	45	510-1024-ND	31.14	25.85	23.83	U45P

Conductive Storage

Conductive cabinets are built in accordance with the guidelines of DOD-HDT3K-263 to bleed off any static charge at a safe controlled rate when properly connected to a ground. Each cabinet comes with a static-safe ground wire which protects users against electrical shock. Color: black

Cabinets

Fig.	Dimensions – Inch (mm)			Compart-ments	Digi-Key	Price Each			Flambeau
	L	W	D		Part No.	1	10	100	Model No.
1	11.25 (285.75)	12 (304.8)	6 (152.4)	20	510-1014-ND	68.78	57.09	52.62	C20P-C
	16.50 (419.10)	12 (304.8)	6 (152.4)	26	510-1016-ND	91.42	75.88	69.94	C26P-C
	11.25 (285.75)	12 (304.8)	6 (152.4)	30	510-1021-ND	68.78	57.09	52.62	U30P-C
	16.50 (419.10)	12 (304.8)	6 (152.4)	45	510-1023-ND	92.32	76.63	70.63	U45P-C

Boxes

Fig.	Dimensions – Inch (mm)			Compart-ments	Digi-Key	Price Each			Flambeau
	L	W	D		Part No.	1	10	100	Model No.
2	14.50 (368.3)	7.50 (190.5)	5.25 (133.35)	Full Length Tray	510-1000-ND	37.78	31.36	28.91	14800-2C
	11 (279.40)	6.75 (171.45)	1.75 (44.45)	1	510-1017-ND	21.36	17.73	16.35	C601
	11 (279.40)	6.75 (171.45)	1.75 (44.45)	18	510-1018-ND	25.56	21.22	19.56	C618
	13.13 (333.50)	9 (228.6)	2.32 (58.93)	1	510-1019-ND	35.66	29.60	27.28	C801
	13.13 (333.50)	9 (228.6)	2.32 (58.93)	24	510-1020-ND	39.08	32.44	29.90	C824

Bins

Fig.	Dimensions – Inch (mm)			Digi-Key	Price Each			Flambeau
	L	W	D	Part No.	1	10	100	Model No.
3	3.88 (98.55)	4.88 (123.96)	8.88 (225.55)	510-1004-ND	7.64	6.35	5.85	3008C
	5.88 (149.35)	4.88 (123.96)	12 (304.8)	510-1001-ND	11.94	9.91	9.14	3005C

Cases

Features: • Molded from a proprietary high density polyethylene carbon loaded blend of materials • Conductive <10^5 Ω/in^2 • Anti-Static: 10^9 ~ 10^{13} Ω/in^2 • Faraday Cage Protection • Color: black

Fig.	Internal Dimensions – Inch (mm)			Digi-Key	Price Each			Flambeau
	L	W	D	Part No.	1	10	100	Model No.
4	5.06 (128.52)	2.75 (69.85)	1 (25.4)	510-1009-ND	8.44	7.01	6.46	50019
	6.75 (171.45)	5 (127)	1.19 (30.23)	510-1012-ND	18.14	15.06	13.88	50036
	8.94 (227.08)	6.63 (168.40)	1.25 (31.75)	510-1005-ND	21.28	17.67	16.28	50014
	11.88 (301.75)	8.19 (208.03)	1.25 (31.75)	510-1006-ND	24.14	20.04	18.47	50015
	12.75 (323.85)	10.5 (266.7)	1.75 (44.45)	510-1007-ND	35.28	29.29	26.99	50016
	15 (381)	6.5 (165.1)	2 (50.8)	510-1008-ND	30.42	25.25	23.28	50017
	17.5 (444.5)	13.5 (342.9)	1.31 (33.27)	510-1011-ND	48.20	40.01	36.88	50023
	18.44 (468.38)	17.69 (449.33)	1.94 (49.28)	510-1010-ND	63.48	52.69	48.57	50021

Plastic Electronic Enclosures

Models (excluding CA Series) are available with or without 9-volt battery compartments, come with vertical card guides and are bossed for mounting horizontal circuit boards. Made from ABS GSM UL Rated 94 HB plastic.

CA Series Only: Features: 0 to 6 button configurations • Designed to hold 20mm coin cell batteries • Assembles with two or three screws.

Fig. 1 — A Series

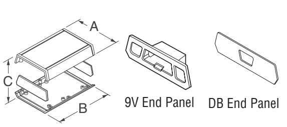

Fig. 2 — Standard/ Standard with Insert

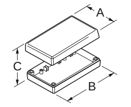

Fig. 3 — Standard Enclosure Copper Clad Board

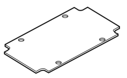

Fig. 4 — Gasket

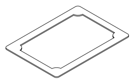

Fig. 5 — 9V Standard/ 9V Standard with Insert

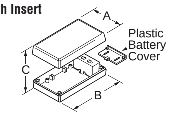

Fig. 6 — Slanted

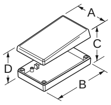

Fig. 7 — 9V Slanted

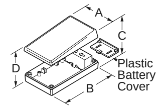

Fig. 8 — C & CH Series

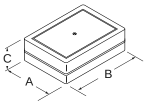

Fig. 9 — M4, M6, M8 Series

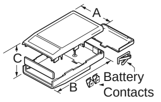

Fig. 10 — H Series **9V H Series**

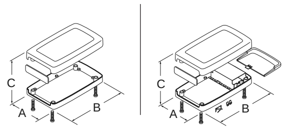

Fig. 11 — G10A Series

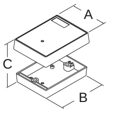

Fig. 12 — CA-4 Series *NEW!*

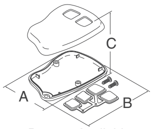

2-4 Buttons Available

Fig. 13 — CA-6 Series *NEW!*

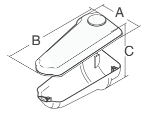

0-4 Buttons Available

Fig. 14 — CA-8 Series *NEW!*

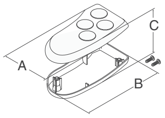

0-5 Buttons Available

Fig. 15 — CA-10 Series *NEW!*

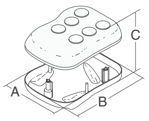

0-6 Buttons Available

Accessories

Description	Digi-Key Part No.	Price Each			Serpac Model No.
		1	25	50	
H-65 Series Optional End Panel, Clear	SRH65-FPC-ND	2.93	2.33	2.00	2105CL
H-65 Series Optional End Panel, Infrared	SRH65-FPI-ND	3.69	2.93	2.52	2105IR
Rubber Feet 1xx, 2xx	SR50-ND	.19	.15	.13	SR50
Rubber Feet, Bumpon, Black	SR51-ND	.28	.23	.20	51
Rubber Feet For A Series	SR52-ND	.28	.23	.20	52
100 pc. Standoff Screws, Adhesive	SR60KIT-ND	61.93	49.15	42.27	60 KIT
100 pc. Standoff Posts, Adhesive	SR61KIT-ND	60.48	48.00	41.28	61 KIT
Standoff with Hole	SR60-ND	.38	.30	.26	60
Standoff with Post	SR61-ND	.32	.25	.22	61
Glue for SR60 and SR61	SR65-ND	11.69	9.28	7.98	65
Battery Clip; dbl. contact for M-6, M-8, H65-9V, H65-AA H67-9V, and H67-AA	SR71-ND	.61	.49	.42	71
Battery Clip; single contact for M-6, M-8, H65-9V, H65-AA, H67-9V, and H67-AA boxes	SR72-ND	.61	.49	.42	72
Battery Clip; battery contacts for M-4 boxes	SR74-ND	.61	.49	.42	74
Battery Clip; battery contacts for M-4 boxes	SR75-ND	.61	.49	.42	75
Screw #0 x 9/16 Flat; fits M-4	SR6001-ND	.20	.17	.14	6001
Screw #2 x 1/2 Flat; fits M-6, M-8, C-4, CH-4 and H Series	SR6003-ND	.20	.17	.14	6003
Screw #4 x 1/4 H/L Pan; fits 110-I, 05-S, 9V, 15-S, 9V Standoff Holes and All Bosses	SR6004-ND	.20	.17	.14	6004
Screw #4 x 3/8 H/L Pan; fits All S and SL Series	SR6005-ND	.20	.17	.14	6005
Screw #4 x 1/2 Flat; fits A Series and Wall-Mount Plates	SR6006-ND	.20	.17	.14	6006
Screw #2 x 3/4 Flat; fits M-6, IND M-8, IND C-8, CH-8	SR6007-ND	.20	.17	.14	6007
Screw #2 x 5/8 Flat; fits C-6 and CH-6	SR6008-ND	.20	.17	.14	6008

Dimensions — Inch (mm)				Digi-Key Part No.	Price Each			Serpac Series No.
A	B	C	D		1	25	50	
Fig. 1 — A Series								
2.60 (66.04)	4.25 (107.95)	.88 (22.35)	—	SRA20☐-ND	6.14	4.88	4.20	A-20
2.60 (66.04)	4.25 (107.95)	1.12 (28.45)	—	SRA21☐-ND	6.33	5.03	4.33	A-21
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27☐-ND	9.23	7.33	6.30	A-27
5.10 (129.54)	5.30 (134.62)	1.71 (43.43)	—	SRA31☐-ND	11.72	9.30	8.00	A-31
5.00 (127.00)	7.10 (180.34)	1.30 (33.02)	—	SRA41☐-ND	13.10	10.40	8.95	A-41
5.00 (127.00)	7.10 (180.34)	1.62 (41.15)	—	SRA42☐-ND	14.14	11.23	9.66	A-42
Fig. 1 — A Series - 9-Volt								
2.60 (66.04)	4.30 (109.22)	1.10 (27.94)	—	SRA21-9V☐-ND	7.94	6.30	5.42	A-219V
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27-9V☐-ND	12.41	9.85	8.48	A-279V
5.10 (129.54)	5.30 (134.62)	1.80 (45.72)	—	SRA31-9V☐-ND	15.37	12.20	10.50	A-319V
5.00 (127.00)	7.10 (180.34)	1.30 (33.02)	—	SRA41-9V☐-ND	15.31	12.15	10.45	A-419V
5.00 (127.00)	7.10 (180.34)	1.60 (40.64)	—	SRA42-9V☐-ND	16.35	12.98	11.16	A-429V
Fig. 2 — Standard								
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111☐-ND	4.47	3.55	3.06	111
2.27 (57.67)	3.63 (92.20)	2.01 (51.05)	—	SR112☐-ND	4.79	3.80	3.27	112
2.27 (57.67)	3.63 (92.20)	2.51 (63.75)	—	SR113☐-ND	4.98	3.95	3.40	113
2.60 (66.04)	4.10 (104.14)	0.91 (23.11)	—	SR021☐-ND	4.32	3.43	2.95	021
3.25 (82.55)	4.38 (111.25)	0.90 (22.86)	—	SR031☐-ND	5.20	4.13	3.55	031
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131☐-ND	5.70	4.53	3.90	131
3.25 (82.55)	4.38 (111.25)	1.41 (35.81)	—	SR032☐-ND	5.70	4.53	3.90	032
3.25 (82.55)	4.38 (111.25)	2.01 (51.05)	—	SR132☐-ND	6.08	4.83	4.15	132
3.25 (82.55)	4.38 (111.25)	1.90 (48.26)	—	SR033☐-ND	6.08	4.83	4.15	033
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR133☐-ND	6.43	5.10	4.39	133
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	—	SR151☐-ND	6.71	5.33	4.58	151
3.25 (82.55)	5.63 (143.00)	1.40 (35.56)	—	SR052☐-ND	6.52	5.18	4.46	052
3.25 (82.55)	5.63 (143.00)	2.00 (50.80)	—	SR152☐-ND	7.02	5.58	4.80	152
3.25 (82.55)	5.63 (143.00)	1.90 (48.26)	—	SR053☐-ND	7.02	5.58	4.80	053
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153☐-ND	7.62	6.05	5.21	153
3.26 (82.80)	5.63 (143.00)	0.91 (23.11)	—	SR051☐-ND	6.14	4.88	4.20	051
4.88 (123.95)	6.88 (174.75)	0.90 (22.86)	—	SR071☐-ND	8.88	7.05	6.07	071
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR171☐-ND	9.73	7.73	6.65	171
4.88 (123.95)	6.88 (174.75)	1.41 (35.81)	—	SR072☐-ND	10.40	8.25	7.10	072
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172☐-ND	10.68	8.48	7.29	172
4.88 (123.95)	6.88 (174.75)	1.91 (48.51)	—	SR073☐-ND	10.55	8.38	7.21	073
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR173☐-ND	11.21	8.90	7.66	173
4.88 (123.95)	14.21 (360.93)	2.01 (51.05)	—	SR182☐-ND	16.44	13.05	11.23	182
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191☐-ND	14.62	11.60	9.98	191
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193☐-ND	15.28	12.13	10.43	193
6.35 (161.29)	9.50 (241.30)	0.91 (23.11)	—	SR091☐-ND	13.61	10.80	9.29	091
6.35 (161.29)	9.50 (241.30)	1.90 (48.26)	—	SR093☐-ND	14.36	11.40	9.81	093
Fig. 2 — Standard with Insert (Non-Textured Top)								
2.25 (57.15)	3.60 (91.44)	1.00 (25.40)	—	SR110-I☐-ND	3.87	3.08	2.65	110-I
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111-I☐-ND	4.47	3.55	3.06	111-I
2.60 (66.04)	4.10 (104.14)	0.91 (23.11)	—	SR021-I☐-ND	4.32	3.43	2.95	021-I
3.25 (82.55)	4.38 (111.25)	0.90 (22.86)	—	SR031-I☐-ND	5.20	4.13	3.55	031-I
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131-I☐-ND	5.70	4.53	3.90	131-I
3.25 (82.55)	4.38 (111.25)	1.91 (48.51)	—	SR033-I☐-ND	6.08	4.83	4.15	033-I
3.25 (82.55)	4.38 (111.25)	2.50 (63.50)	—	SR133-I☐-ND	6.43	5.10	4.39	133-I
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR151-I☐-ND	6.71	5.33	4.58	151-I
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153-I☐-ND	7.62	6.05	5.21	153-I
3.26 (82.80)	5.63 (143.00)	0.91 (22.86)	—	SR051-I☐-ND	6.14	4.88	4.20	051-I
3.26 (82.80)	5.63 (143.00)	1.91 (48.51)	—	SR053-I☐-ND	7.02	5.58	4.80	053-I
4.88 (123.95)	6.88 (174.75)	0.90 (22.86)	—	SR071-I☐-ND	8.88	7.05	6.07	071-I
4.88 (123.95)	6.88 (174.75)	1.50 (38.10)	—	SR171I☐-ND	9.73	7.73	6.65	171I
4.88 (123.95)	6.88 (174.75)	1.41 (35.81)	—	SR072-I☐-ND	10.40	8.25	7.10	072-I
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172-I☐-ND	10.68	8.48	7.29	172-I
4.88 (123.95)	6.88 (174.75)	1.91 (48.51)	—	SR073-I☐-ND	10.55	8.38	7.21	073-I
4.88 (123.95)	6.88 (174.75)	2.50 (63.50)	—	SR173-I☐-ND	11.21	8.90	7.66	173-I
4.88 (123.95)	14.21 (360.93)	2.01 (51.05)	—	SR182I☐-ND	16.44	13.05	11.23	182I
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191I☐-ND	14.62	11.60	9.98	191-I
6.34 (161.04)	9.50 (241.30)	2.50 (63.50)	—	SR193I☐-ND	15.28	12.13	10.43	193I
6.35 (161.29)	9.50 (241.30)	0.91 (23.11)	—	SR091-I☐-ND	13.61	10.80	9.29	091-I
6.35 (161.29)	9.50 (241.30)	1.90 (48.26)	—	SR093I☐-ND	14.36	11.40	9.81	093I
Fig. 2 — Standard Wall Mount								
3.25 (82.55)	4.38 (111.25)	0.91 (23.11)	—	SR031-W☐-ND	6.49	5.15	4.43	031-W
3.25 (82.55)	4.38 (111.25)	1.41 (35.81)	—	SR032-W☐-ND	6.96	5.53	4.76	032-W
3.25 (82.55)	4.38 (111.25)	1.91 (48.51)	—	SR033-W☐-ND	7.34	5.83	5.01	033-W
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR151-W☐-ND	8.91	7.08	6.09	151-W
3.25 (82.55)	5.63 (143.00)	2.01 (51.05)	—	SR152-W☐-ND	9.61	7.63	6.56	152-W
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153-W☐-ND	10.08	8.00	6.88	153-W
3.26 (82.80)	5.63 (143.00)	0.91 (23.11)	—	SR051-W☐-ND	8.91	7.08	6.09	051-W
3.26 (82.80)	5.63 (143.00)	1.41 (35.81)	—	SR052-W☐-ND	9.61	7.63	6.56	052-W
3.26 (82.80)	5.63 (143.00)	1.91 (48.51)	—	SR053-W☐-ND	9.86	7.83	6.73	053-W
Fig. 2 — Standard Wall Mount with Insert								
3.25 (82.55)	4.38 (111.25)	0.91 (23.11)	—	SR031-WI☐-ND	6.49	5.15	4.43	031-WI
3.25 (82.55)	4.38 (111.25)	1.91 (48.51)	—	SR033-WI☐-ND	7.34	5.83	5.01	033-WI
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR151-WI☐-ND	8.91	7.08	6.09	151-WI
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR153-WI☐-ND	10.08	8.00	6.88	153-WI
3.26 (82.80)	5.63 (143.00)	0.91 (23.11)	—	SR051-WI☐-ND	8.91	7.08	6.09	051-WI
3.26 (82.80)	5.63 (143.00)	1.91 (48.51)	—	SR053-WI☐-ND	9.86	7.83	6.73	053-WI
Fig. 3 — Standard Enclosure Prototyping Boards — .1" (2.54mm) Grid Perfboard								
For Box #'s "SRx1x"				SR310-ND	9.83	7.80	6.71	310SR
For Box #'s "SRx3x"				SR330-ND	19.12	15.18	13.06	330SR
For Box #'s "SRx5x"				SR350-ND	22.21	17.63	15.16	350SR
For Box #'s "SRx7x"				SR370-ND	28.38	22.53	19.38	370SR
Fig. 3 — Standard Enclosure Prototyping Boards — Copper Clad Board (1 Side)								
For Box #'s "SRx1x"				SR410-ND	9.26	7.35	6.33	410SR
For Box #'s "SRx3x"				SR430-ND	10.17	8.08	6.95	430SR
For Box #'s "SRx5x"				SR450-ND	11.12	8.83	7.59	450SR
For Box #'s "SRx7x"				SR470-ND	14.18	11.25	9.68	470SR
Fig. 4 — Gaskets								
Gasket, 3.63" x 2.27" (92.20mm x 57.66mm); fits 111, 111-1, 112, and 113				SRPS-11-ND	3.75	2.98	2.56	PS-11
Gasket, 4.38" x 3.25" (111.25mm x 82.55mm); fits 131, 131-1, 132, 132-1; 133, and 133-1				SRPS-13-ND	4.16	3.30	2.84	PS-13
Gasket, 5.63" x 3.25" (143.00mm x 82.55mm); fits 151, 151-1, 152, 153, and 153-1				SRPS-15-ND	4.88	3.88	3.34	PS-15
Gasket, 6.88" x 4.88" (174.65mm x 123.44mm); fits 171, 172, 173, and 17-S				SRPS-17-ND	5.32	4.23	3.64	PS-17
Fig. 5 — 9-Volt Standard								
2.60 (66.04)	4.10 (104.14)	1.51 (38.10)	—	SR211☐-ND	5.45	4.33	3.72	211
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231☐-ND	6.71	5.33	4.58	231
3.25 (82.55)	4.38 (111.25)	2.00 (50.80)	—	SR232☐-ND	7.09	5.63	4.84	232
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233☐-ND	7.40	5.88	5.06	233
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251☐-ND	8.19	6.50	5.59	251
3.25 (82.55)	5.63 (143.00)	2.00 (50.80)	—	SR252☐-ND	8.73	6.93	5.96	252
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253☐-ND	9.14	7.25	6.24	253
4.88 (123.95)	6.88 (174.75)	1.51 (38.35)	—	SR271☐-ND	10.87	8.63	7.42	271
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272☐-ND	11.66	9.25	7.96	272
4.88 (123.95)	6.88 (174.75)	2.51 (63.75)	—	SR273☐-ND	11.84	9.40	8.09	273

Box color ☐: **B** = Black, **G** = Gray, **A** = Almond

(Continued)

Dimensions — Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	50	Serpac Series No.
Fig. 5 — 9-Volt Standard with Insert (Non-Textured Top)								
2.60 (66.04)	4.10 (104.14)	1.51 (38.35)	—	SR221-I☐-ND	5.45	4.33	3.72	211-I
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231-I☐-ND	6.71	5.33	4.58	231-I
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233-I☐-ND	7.40	5.88	5.06	233-I
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251-I☐-ND	8.19	6.50	5.59	251-I
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253-I☐-ND	9.14	7.25	6.24	253-I
4.88 (123.95)	6.88 (174.75)	1.51 (38.35)	—	SR271-I☐-ND	10.87	8.63	7.42	271-I
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR272-I☐-ND	11.66	9.25	7.96	272-I
4.88 (123.95)	6.88 (174.75)	2.51 (63.75)	—	SR273-I☐-ND	11.84	9.40	8.09	273-I
Fig. 5 — 9-Volt Standard Wall Mount								
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231-W☐-ND	7.37	5.85	5.04	231-W
3.25 (82.55)	4.38 (111.25)	2.01 (51.05)	—	SR232-W☐-ND	7.84	6.23	5.36	232-W
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233-W☐-ND	8.19	6.50	5.59	233-W
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251-W☐-ND	9.80	7.78	6.69	251-W
3.25 (82.55)	5.63 (143.00)	2.01 (51.05)	—	SR252-W☐-ND	10.49	8.33	7.16	252-W
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253-W☐-ND	10.65	8.45	7.27	253-W
Fig. 5 — 9-Volt Standard Wall Mount with Insert (Non-Textured Top)								
3.25 (82.55)	4.38 (111.25)	1.51 (38.35)	—	SR231-WI☐-ND	7.37	5.85	5.04	231-WI
3.25 (82.55)	4.38 (111.25)	2.51 (63.75)	—	SR233-WI☐-ND	8.19	6.50	5.59	233-WI
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	—	SR251-WI☐-ND	9.80	7.78	6.69	251-WI
3.25 (82.55)	5.63 (143.00)	2.51 (63.75)	—	SR253-WI☐-ND	10.65	8.45	7.27	253-WI
Fig. 6 — Standard Slant								
3.25 (82.55)	5.63 (143.00)	0.90 (22.86)	0.39 (9.91)	SR05S☐-ND	6.14	4.88	4.20	05S
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	0.97 (24.64)	SR15-S☐-ND	6.71	5.33	4.58	15-S
6.88 (174.75)	4.88 (123.95)	1.88 (47.75)	0.90 (22.86)	SR07S☐-ND	8.88	7.05	6.07	07-S
6.88 (174.75)	4.88 (123.95)	2.48 (62.99)	1.50 (38.10)	SR17S☐-ND	9.73	7.73	6.65	17-S
Fig. 6 — Standard Slant Wall Mount								
3.25 (82.55)	5.63 (143.00)	0.90 (22.86)	0.39 (9.91)	SR05SW☐-ND	6.49	5.15	4.43	05-SW
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	1.0 (25.4)	SR15SW☐-ND	7.34	5.83	5.01	15-SW
Fig. 6 — 9-Volt Standard Slant Wall Mount								
3.25 (82.55)	5.63 (143.00)	1.51 (38.35)	1.0 (25.4)	SR25SW☐-ND	8.82	7.00	6.02	25-SW
Fig. 7 — 9-Volt Slanted								
3.25 (82.55)	5.63 (143.00)	1.50 (38.10)	0.97 (24.64)	SR25-S☐-ND	8.19	6.50	5.59	25-S
6.88 (174.75)	4.88 (123.95)	2.48 (62.99)	1.50 (38.10)	SR27S☐-ND	10.87	8.63	7.42	27-S
Fig. 8 — C Series								
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4☐-ND	3.24	2.58	2.22	C-4
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6☐-ND	3.24	2.58	2.22	C-6
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8☐-ND	3.24	2.58	2.22	C-8
1.85 (46.99)	5.00 (127.00)	1.00 (25.40)	—	SCR28☐-ND	4.22	3.35	2.89	C-28
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	—	SCR10☐-ND	3.75	2.98	2.56	C-10
2.40 (60.96)	3.75 (95.25)	1.00 (25.40)	—	SCR12☐-ND	4.10	3.25	2.80	C-12
Fig. 8 — C Series with Key Holder								
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4KH☐-ND	4.60	3.65	3.14	C-4 KH
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6KH☐-ND	4.60	3.65	3.14	C-6 KH
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8KH☐-ND	4.50	3.58	3.08	C-8 KH
Fig. 8 — C Series with Pocket Clip								
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	—	SCR4PC☐-ND	6.02	4.78	4.11	C-4 PC
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	—	SCR6PC☐-ND	6.02	4.78	4.11	C-6 PC
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	—	SCR8PC☐-ND	6.02	4.78	4.11	C-8 PC
1.85 (46.99)	5.00 (127.00)	1.00 (25.40)	—	SCR28PC☐-ND	6.99	5.55	4.78	C-28 PC
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	—	SCR10PC☐-ND	6.52	5.18	4.46	C-10 PC
2.40 (60.96)	3.75 (95.25)	1.00 (25.40)	—	SCR12PC☐-ND	6.87	5.45	4.69	C-12 PC
Fig. 8 — CH Series								
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4☐-ND	3.24	2.58	2.22	CH-4
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6☐-ND	3.24	2.58	2.22	CH-6
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8☐-ND	3.24	2.58	2.22	CH-8
Fig. 8 — CH Series with Key Holder								
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4KH☐-ND	4.60	3.65	3.14	CH-4 KH
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6KH☐-ND	4.60	3.65	3.14	CH-6 KH
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8KH☐-ND	4.60	3.65	3.14	CH-8 KH
Fig. 8 — CH Series with Pocket Clip								
2.265 (67.31)	1.515 (38.48)	0.585 (14.86)	—	SRCH-4PC☐-ND	6.02	4.78	4.11	CH-4 PC
2.39 (60.71)	1.74 (44.20)	0.755 (19.18)	—	SRCH-6PC☐-ND	6.02	4.78	4.11	CH-6 PC
2.40 (60.96)	1.85 (46.99)	0.925 (23.50)	—	SRCH-8PC☐-ND	6.02	4.78	4.11	CH-8 PC
Fig. 9 — M Series								
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	—	SRM4☐-ND	5.83	4.63	3.98	M-4
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6☐-ND	7.21	5.73	4.93	M-6
2.40 (60.96)	6.97 (177.04)	0.86 (21.84)	—	SRM8☐-ND	8.54	6.78	5.83	M-8
Fig. 9 — M Series with Pocket Clip								
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	—	SRM4PC☐-ND	8.10	6.43	5.53	M-4 PC
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6PC☐-ND	9.80	7.78	6.69	M-6 PC
2.40 (60.96)	6.97 (177.04)	0.85 (21.59)	—	SRM8PC☐-ND	11.66	9.25	7.96	M-8 PC
Fig. 9 — M Series with External Screws								
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	—	SRM6IND☐-ND	7.21	5.73	4.93	M-6 IND
2.40 (60.96)	6.97 (177.04)	0.85 (21.59)	—	SRM8IND☐-ND	9.61	7.63	6.56	M-8 IND
Fig. 11 — G10 Series — No Insert or Access Hole								
4.38 (111.25)	3.25 (82.55)	0.885 (22.48)	—	SRG10☐-ND	6.71	5.33	4.58	G10
Fig. 11 — G10A Series with Insert and Access Hole								
4.38 (111.25)	3.25 (82.55)	0.885 (22.48)	—	SRG10A☐-ND	6.71	5.33	4.58	G10A
M Series Lenses								
M4 Series Clear				SRM4-FPC-ND	2.80	2.23	1.92	4004CL
M4 Series Infrared				SRM4-FPI-ND	3.53	2.80	2.41	4004IR
M6/8 Series Clear				SRM6/8-FPC-ND	2.93	2.33	2.00	4008CL
M6/8 Series Infrared				SRM6/8-FPI-ND	3.69	2.93	2.52	4008IR
Fig. 10 — H Series (Standard, AC, 9V, or AA)								
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65☐-ND	6.77	5.38	4.63	H-65
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AA☐-ND	7.65	6.08	5.23	H-65 AA
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AC☐-ND	6.77	5.38	4.63	H-65 AC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-9V☐-ND	7.43	5.90	5.08	H-65 9V
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67☐-ND	6.93	5.50	4.73	H-67
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AA☐-ND	7.84	6.23	5.36	H-67 AA
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AC☐-ND	6.93	5.50	4.73	H-67 AC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-9V☐-ND	7.62	6.05	5.21	H-67 9V
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75☐-ND	8.63	6.85	5.90	H-75
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75-9V☐-ND	9.58	7.60	6.54	H-75 9V
3.65 (92.71)	7.20 (182.88)	1.26 (32.00)	—	SRH75-4AA☐-ND	11.59	9.20	7.92	H-75 4AA

Dimensions — Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	25	50	Serpac Series No.
Fig. 10 — H Series with Pocket Clip								
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-PC☐-ND	9.54	7.58	6.52	H-65 PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-AAPC☐-ND	10.43	8.28	7.12	H-65 AA-PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-ACPC☐-ND	9.54	7.58	6.52	H-65 AC-PC
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	—	SRH65-9VPC☐-ND	10.21	8.10	6.97	H-65 9V-PC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-AAPC☐-ND	10.62	8.43	7.25	H-67 AA-PC
2.75 (69.85)	4.94 (125.48)	0.28 (7.11)	—	SRH67-ACPC☐-ND	9.70	7.70	6.63	H-67 AC-PC
2.75 (69.85)	4.94 (125.48)	0.28 (7.11)	—	SRH67-PC☐-ND	9.70	7.70	6.63	H-67 PC
2.75 (69.85)	4.94 (125.48)	1.28 (32.51)	—	SRH67-9VPC☐-ND	10.40	8.25	7.10	H-67 9V-PC
EMI Enclosures (No Battery Clips)								
Fig. 1 — A Series - EMI - 9-Volt								
3.35 (85.09)	5.30 (134.62)	1.50 (38.10)	—	SRA27E-B-ND	13.14	10.43	8.97	A-219V
Fig. 2 — Standard								
2.25 (57.15)	3.60 (91.44)	1.50 (38.10)	—	SR111E-B-ND	6.24	4.95	4.26	111-EMI-BLACK
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR131E-B-ND	8.00	6.35	5.47	131-EMI-BLACK
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	—	SR151E-B-ND	9.48	7.53	6.48	151-EMI-BLACK
4.88 (123.95)	6.88 (174.75)	2.00 (50.80)	—	SR172E-B-ND	15.21	12.08	10.39	172-EMI-BLACK
6.34 (161.04)	9.50 (241.30)	1.50 (38.10)	—	SR191E-B-ND	20.95	16.63	14.30	191-EMI-BLACK
Fig. 5 — 9-Volt Standard								
2.60 (66.04)	4.10 (104.14)	1.50 (38.10)	—	SR211E-B-ND	7.65	6.08	5.23	211-EMI-BLACK
Fig. 5 — 9-Volt with Insert (Non-Textured Top)								
3.25 (82.55)	4.38 (111.25)	1.50 (38.10)	—	SR231E-B-ND	9.48	7.53	6.48	231-I-EMI-BLACK
Fig. 6 — Standard Slant								
3.25 (82.55)	5.62 (142.75)	1.50 (38.10)	.968 (24.59)	SR015E-B-ND	9.48	7.53	6.48	15-S-EMI-BLACK
Fig. 9 — Remote M Series								
2.40 (60.96)	4.15 (105.41)	.85 (21.59)	—	SRM6E-9VB-ND	10.21	8.10	6.97	M-6-EMI-BLACK

Box color ☐: **B** = Black, **G** = Gray, **A** = Almond

Description	Digi-Key Part No.	Price Each 1	25	50	Serpac Model No.
Fig. 1 — A Series Optional End Panels					
A20 Series End Panel	SRA20-☐☐-ND	2.27	1.80	1.55	2003
A20 Series End Panel with DB9	SR2003-DB9B-ND	1.86	1.48	1.27	2003 DB9 BK
A20 Series End Panel with DB25	SR2003-DB25B-ND	1.86	1.48	1.27	2003 DB25 BK
A21 Series End Panel	SRA21-☐☐-ND	2.27	1.80	1.55	2005
A21 9V Series Black End Panel	SRA21-9VBK-ND	1.70	1.35	1.17	2006 BK
A21 Series End Panel with DB9	SR2005-DB9B-ND	1.86	1.48	1.27	2005 DB9 BK
A21 Series End Panel with DB25	SR2005-DB25B-ND	1.86	1.48	1.27	2005 DB25 BK
A27 Series End Panel	SRA27-☐☐-ND	2.43	1.93	1.66	2010
A27 9V Series Black End Panel	SRA27-9VBK-ND	1.83	1.45	1.25	2011 BK
A27 Series End Panel with DB9	SR2010-DB9B-ND	2.14	1.70	1.47	2010 DB9 BK
A27 Series End Panel with DB25	SR2010-DB25B-ND	2.14	1.70	1.47	2010 DB25 BK
A31 Series End Panel	SRA31-☐☐-ND	3.56	2.83	2.43	2015
A31 9V Series Black End Panel	SRA31-9VBK-ND	2.71	2.15	1.85	2016 BK
A31 Series End Panel with DB9	SR2015-DB9B-ND	3.02	2.40	2.07	2015 DB9 BK
A31 Series End Panel with DB25	SR2015-DB25B-ND	2.93	2.33	2.00	2015 DB25 BK
A41 Series End Panel	SRA41-☐☐-ND	3.34	2.65	2.28	2020
A41 9V Series Black End Panel	SRA41-9VBK-ND	2.43	1.93	1.66	2021 BK
A41 Series End Panel with DB9	SR2020-DB9B-ND	2.65	2.10	1.81	2020 DB9 BK
A41 Series End Panel with DB25	SR2020-DB25B-ND	2.65	2.10	1.81	2020 DB25 BK
A42 Series End Panel	SRA42-☐☐-ND	3.56	2.83	2.43	2024
A42 9V Series Black End Panel	SRA42-9VBK-ND	2.71	2.15	1.85	2025 BK
A42 Series End Panel with DB9	SR2024-DB9B-ND	3.02	2.40	2.07	2024 DB9 BK
A42 Series End Panel with DB25	SR2024-DB25B-ND	3.02	2.40	2.07	2024 DB25 BK

Lens color ☐☐ **IR** = Infrared, **CL** = Clear, **BK** = Black

Dimensions — Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	50	Serpac Series No.
Fig. 8 — C Series Translucent							
1.38 (35.05)	2.13 (54.10)	0.58 (14.73)	SCR4T☐-ND	5.36	4.25	3.66	C-4 TR
1.61 (40.89)	2.26 (57.40)	0.75 (19.05)	SCR6T☐-ND	5.36	4.25	3.66	C-6 TR
1.85 (46.99)	2.40 (60.96)	0.93 (23.62)	SCR8T☐-ND	5.36	4.25	3.66	C-8 TR
2.30 (58.42)	3.25 (82.55)	0.80 (20.32)	SCR10T☐-ND	6.27	4.98	4.28	C-10 TR
Fig. 9 — M Series Translucent							
2.20 (55.88)	2.80 (71.12)	0.71 (18.03)	SRM4T☐-ND	10.02	7.95	6.84	M-4 TR
2.40 (60.96)	4.15 (105.41)	0.85 (21.59)	SRM6T☐-ND	12.51	9.93	8.54	M-6 TR
Fig. 10 — H Series Translucent							
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	SRH65T☐-ND	11.72	9.30	8.00	H-65 TR
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	SRH65-AAT☐-ND	13.29	10.55	9.08	H-65 AA TR
2.75 (69.85)	4.94 (125.48)	0.94 (23.88)	SRH65-9VT☐-ND	12.95	10.28	8.84	H-65 9V TR

Translucent Box color ☐: **L** = Translucent Blue, **G** = Translucent Green, **S** = Translucent Gray, **R** = Translucent Red

Fig.	Dimensions — Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	25	50	Serpac Series No.
NEW! CA Series NEW!								
12	1.73 (43.94)	2.53 (64.26)	0.65 (16.51)	SRCA4-☒☐-ND	3.75	2.98	2.56	CA-4
13	1.51 (38.35)	3.05 (77.47)	1.05 (26.67)	SRCA6-☒☐-ND	4.22	3.35	2.89	CA-6
14	1.87 (47.50)	3.32 (84.33)	1.00 (25.40)	SRCA8-☒☐-ND	4.63	3.68	3.17	CA-8
15	2.56 (65.02)	3.40 (86.36)	1.02 (25.91)	SRCA10-☒☐-ND	5.04	4.00	3.44	CA-10

Number of Buttons ☒: 0 through 6 *(See figures for number of buttons available per series)*
Box color ☐: **B** = Black, **G** = Gray, **A** = Almond

Enclosures

Fig. 1 — Aluminum Chassis

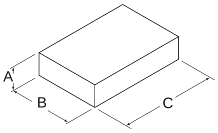

- Welded at stress points for assured, maximum strength and rigidity • Sides folded in at bottom for additional support • Bottom plate easily attached • Natural finish

Fig. 2 — PlastiBOXes

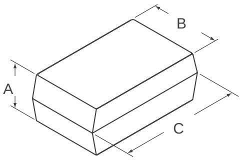

- ABS plastic • UL94-HB flammability rating • Suggested service temperature -40°C ~ 60°C

Fig. 3 — Grabber

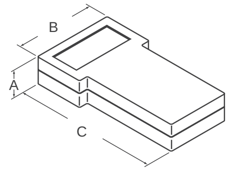

- ABS plastic in a light gray finish • UL94V-0 flammability rating

Fig. 4 — Utility Cabinets

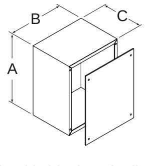

- Sturdy, all-welded body • Available in .040" aluminum or 20 gauge steel: "AU" prefix – aluminum alloy in natural finish; "CU" prefix – steel in metallic gray finish

Fig. 5 — ABS Plastic Utiliboxes

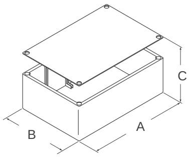

- Aluminum or plastic cover

Fig. 6 — Plastic NEMA Enclosures

Meets NEMA 1, 2, 4, 4X, 12 and 13 Ratings

Style 1: • Light gray polycarbonate body and cover • UV stabilized • UL94V-2 flammability rating

Style 2: • Light gray polycarbonate body and clear polycarbonate cover • UV stabilized • UL94V-2 flammability rating

Style 3: • Dark gray ABS body and cover • UL94-HB flammability rating

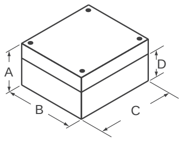

Fig. 7 — Die Cast Aluminum NEMA Boxes with or without Mounting Brackets

Meets NEMA 1, 2, 4, 4X, 12 and 13 Ratings

- ADC-10 aluminum alloy
- Tested and listed to UL-508 Type 4X requirements (UL File #E194432)
- Heavy duty .09" thick external wall mounting bracket
- Mounts to wall or panel with #10 size screws (not included)

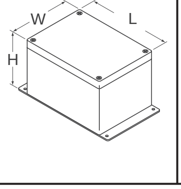

Fig. 8 — Die Cast Econobox with or without Mounting Brackets

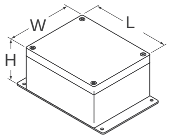

- ADC-10 aluminum alloy • Heavy duty .09" thick external wall mounting bracket • Mounts to wall or panel with #10 size screws (not included)

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 1 — Chassis								
Natural	1.50 (38.1)	4.00 (100.4)	6.00 (152.4)	377-1000-ND	9.30	7.80	7.00	AC-1405
	2.00 (50.8)	6.00 (152.4)	8.00 (203.2)	377-1001-ND	11.90	9.90	8.90	AC-1413
	2.50 (63.5)	8.00 (203.2)	10.00 (254)	377-1002-ND	19.20	16.05	14.45	AC-1418
	2.50 (63.5)	8.00 (203.2)	12.00 (304.8)	377-1003-ND	23.80	19.85	17.85	AC-1419
	5.00 (127)	10.00 (254)	17.00 (431.8)	377-1004-ND	54.70	45.65	41.10	AC-1422
	5.00 (127)	13.00 (330.2)	17.00 (431.8)	377-1005-ND	63.00	52.60	47.35	AC-1426
	3.00 (76.2)	14.00 (355.6)	17.00 (431.8)	377-1006-ND	45.90	38.30	34.45	AC-1427
	4.00 (101.6)	15.00 (381)	17.00 (431.8)	377-1007-ND	62.30	52.00	46.80	AC-1428
	6.00 (152.4)	15.00 (381)	17.00 (431.8)	377-1008-ND	88.20	73.65	66.30	AC-1429
	3.00 (76.2)	17.00 (431.8)	17.00 (431.8)	377-1009-ND	53.40	44.60	40.16	AC-1430
	4.00 (101.6)	17.00 (431.8)	17.00 (431.8)	377-1010-ND	62.60	52.30	47.05	AC-1431
	2.00 (50.8)	5.00 (127)	7.00 (177.8)	377-1011-ND	10.40	8.65	7.80	AC-402
	2.00 (50.8)	5.00 (127)	9.50 (241.3)	377-1012-ND	12.60	10.45	9.40	AC-403
	3.00 (76.2)	5.00 (127)	10.00 (254)	377-1013-ND	16.00	13.35	12.00	AC-404
	2.00 (50.8)	7.00 (177.8)	7.00 (177.8)	377-1014-ND	10.90	9.00	8.10	AC-405
	2.00 (50.8)	7.00 (177.8)	9.00 (228.6)	377-1015-ND	13.10	10.90	9.80	AC-406
	2.00 (50.8)	7.00 (177.8)	11.00 (279.4)	377-1016-ND	15.20	12.65	11.40	AC-407
	3.00 (76.2)	7.00 (177.8)	12.00 (304.8)	377-1017-ND	20.20	16.85	15.15	AC-408
	2.00 (50.8)	7.00 (177.8)	13.00 (330.2)	377-1018-ND	16.60	13.90	12.50	AC-409
	3.00 (76.2)	7.00 (177.8)	15.00 (381)	377-1019-ND	26.30	21.95	19.75	AC-411
	3.00 (76.2)	8.00 (203.2)	17.00 (431.8)	377-1020-ND	27.30	22.85	20.55	AC-412
	3.00 (76.2)	10.00 (254)	12.00 (304.8)	377-1021-ND	30.70	25.70	23.15	AC-413
	3.00 (76.2)	10.00 (254)	14.00 (355.6)	377-1022-ND	31.20	26.15	23.55	AC-414
	2.00 (50.8)	10.00 (254)	17.00 (431.8)	377-1023-ND	27.80	23.25	20.95	AC-415
	3.00 (76.2)	10.00 (254)	17.00 (431.8)	377-1024-ND	32.60	27.20	24.50	AC-416
	3.00 (76.2)	12.00 (304.8)	17.00 (431.8)	377-1025-ND	34.40	28.65	25.80	AC-418
	2.00 (50.8)	13.00 (330.2)	17.00 (431.8)	377-1026-ND	35.20	29.35	26.40	AC-419
	3.00 (76.2)	13.00 (330.2)	17.00 (431.8)	377-1027-ND	40.60	33.90	30.50	AC-420
	3.00 (76.2)	5.00 (127)	9.50 (241.3)	377-1028-ND	15.90	13.25	11.95	AC-421
	3.00 (76.2)	8.00 (203.2)	12.00 (304.8)	377-1029-ND	24.20	20.20	18.20	AC-424
	4.00 (101.6)	10.00 (254)	17.00 (431.8)	377-1030-ND	46.90	39.20	35.30	AC-427
	4.00 (101.6)	13.00 (330.2)	17.00 (431.8)	377-1031-ND	49.40	41.20	37.10	AC-428
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1032-ND	13.30	11.10	10.00	AC-429
	3.00 (76.2)	4.00 (101.6)	6.00 (152.4)	377-1033-ND	11.85	9.80	8.80	AC-430
	2.00 (50.8)	4.00 (101.6)	6.00 (152.4)	377-1034-ND	9.60	8.05	7.25	AC-431

Chassis Bottom Plates

Color	Dimensions - Inch (mm) Fits Width	Chassis Length	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Natural	4.00 (101.6)	6.00 (152.4)	377-1035-ND	4.80	4.00	3.60	BPA-1505
	6.00 (152.4)	8.00 (203.2)	377-1036-ND	6.80	5.60	5.05	BPA-1513
	8.00 (203.2)	10.00 (254)	377-1037-ND	8.40	7.00	6.30	BPA-1518
	8.00 (203.2)	12.00 (304.8)	377-1038-ND	10.20	8.55	7.70	BPA-1519
	8.00 (203.2)	17.00 (431.8)	377-1039-ND	10.50	8.80	7.90	BPA-1520
	10.00 (254)	12.00 (304.8)	377-1040-ND	10.20	8.55	7.70	BPA-1523
	10.00 (254)	14.00 (355.6)	377-1041-ND	10.20	8.55	7.70	BPA-1524
	12.00 (304.8)	17.00 (431.8)	377-1042-ND	14.60	12.20	11.00	BPA-1528
	14.00 (355.6)	17.00 (431.8)	377-1043-ND	15.40	12.85	11.55	BPA-1529
	15.00 (381)	17.00 (431.8)	377-1044-ND	19.30	16.10	14.50	BPA-1530
	17.00 (431.8)	17.00 (431.8)	377-1045-ND	23.50	19.60	17.65	BPA-1531
	5.00 (127)	7.00 (177.8)	377-1046-ND	4.70	3.90	3.50	BPA-1589
	5.00 (127)	9.50 (241.3)	377-1047-ND	4.80	4.00	3.60	BPA-1590
	5.00 (127)	10.00 (254)	377-1048-ND	4.70	3.90	3.50	BPA-1591
	7.00 (177.8)	7.00 (177.8)	377-1049-ND	4.70	3.90	3.50	BPA-1592
	7.00 (177.8)	9.00 (228.6)	377-1050-ND	5.80	4.85	4.35	BPA-1593
	7.00 (177.8)	11.00 (279.4)	377-1051-ND	6.00	5.00	4.50	BPA-1594
	7.00 (177.8)	12.00 (304.8)	377-1052-ND	6.60	5.50	4.95	BPA-1595
	10.00 (254)	17.00 (431.8)	377-1053-ND	10.80	9.05	8.15	BPA-1597
	13.00 (330.2)	17.00 (431.8)	377-1054-ND	15.00	12.50	11.25	BPA-1598

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 2 — PlastiBOXes							
Gray	1.50 (38.1)	2.25 (57.15)	3.62 (91.95)	377-1161-ND	5.40	4.50	PT-11308-G
	1.50 (38.1)	3.25 (82.55)	5.62 (142.75)	377-1157-ND	10.30	8.60	PBS-11327-G
	2.48 (62.99)	3.25 (82.55)	5.62 (142.75)	377-1162-ND	9.80	8.20	PT-11388-G
	1.52 (38.61)	3.25 (82.55)	4.37 (111.00)	377-1158-ND	4.80	4.00	PBS-11532-G
	1.52 (38.61)	3.25 (82.55)	5.62 (142.75)	377-1159-ND	5.50	4.60	PS-11543-G
	1.52 (38.61)	4.87 (123.70)	6.87 (174.50)	377-1160-ND	6.80	5.65	PS-11553-G
	2.52 (64.01)	4.87 (123.70)	6.87 (174.50)	377-1163-ND	7.20	6.00	PT-11557-G
Fig. 3 — Grabber							
Gray	1.71 (43.43)	5.16 (131.06)	9.33 (236.98)	377-1170-ND	19.00	15.85	HH-3420
Accessories for Grabber							
Tilt Stand for HH-3420				377-1171-ND	.90	.75	HH-3440-TS
Gasket for HH-3420				377-1172-ND	1.00	.85	HH-3441-G
Fig. 4 — Utility Cabinets							
Natural	5.00 (127)	6.00 (152.4)	4.00 (101.6)	377-1056-ND	14.10	11.75	AU-1029
	6.00 (152.4)	6.00 (152.4)	6.00 (152.4)	377-1057-ND	20.60	17.20	AU-1039
	9.00 (228.6)	6.00 (152.4)	5.00 (127)	377-1058-ND	22.40	18.70	AU-1040
Metallic Gray	6.00 (152.4)	6.00 (152.4)	6.00 (152.4)	377-1059-ND	28.70	23.90	CU-1098
	9.00 (228.6)	6.00 (152.4)	5.00 (127)	377-1060-ND	31.10	25.96	CU-1099
	12.00 (304.8)	7.00 (177.8)	6.00 (152.4)	377-1061-ND	46.80	39.10	CU-1124
	4.00 (101.6)	5.00 (127)	3.00 (76.2)	377-1062-ND	14.00	11.75	CU-728
	5.00 (127)	6.00 (152.4)	4.00 (101.6)	377-1063-ND	17.90	14.90	CU-729
	10.00 (254)	8.00 (203.2)	7.00 (177.8)	377-1064-ND	47.00	39.25	CU-879
	15.00 (381)	9.00 (228.6)	7.00 (177.8)	377-1065-ND	66.80	55.80	CU-882
Fig. 5 — ABS Plastic Utiliboxes							
Black	8.66 (219.96)	5.32 (135.13)	2.95 (74.93)	377-1164-ND*	27.30	22.75	CU-1495
	5.30 (134.62)	2.94 (74.68)	1.95 (49.53)	377-1165-ND	2.70	2.25	CU-1874-B
Gray	5.30 (134.62)	2.94 (74.68)	1.95 (49.53)	377-1166-ND	2.70	2.25	CU-1874-G
Black	4.10 (104.14)	2.23 (57.40)	2.00 (50.8)	377-1167-ND	4.10	3.40	CU-793
	5.59 (141.99)	4.34 (110.27)	1.84 (46.77)	377-1168-ND	7.20	6.00	CU-387
	4.31 (109.47)	3.06 (77.72)	1.46 (37.08)	377-1169-ND	5.80	4.85	CU-388
	4.6 (116.84)	3.1 (78.74)	1.87 (47.50)	377-1216-ND	7.20	6.00	CU-3281
	4.6 (116.84)	4.6 (116.84)	2.37 (60.20)	377-1217-ND	7.60	6.35	CU-3282
	6.1 (154.94)	4.6 (116.84)	2.37 (60.20)	377-1218-ND	9.20	7.70	CU-3283
	7.6 (193.04)	4.6 (116.84)	2.37 (60.20)	377-1219-ND	10.60	8.85	CU-3284
	5.07 (128.78)	3.57 (90.68)	1.59 (40.39)	377-1220-ND	6.70	5.60	CU-389

* Cover panel .05 inch aluminum

NEMA Sealed Polycarbonate and ABS Enclosures

Dimensions - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Fig. 6 — Style 1								
1.38 (35.05)	2.56 (65.02)	2.28 (57.91)	0.99 (25.146)	377-1112-ND	7.40	6.15	5.55	PN-1320
1.57 (39.88)	4.53 (115.06)	2.56 (65.02)	0.99 (25.146)	377-1114-ND	10.30	8.60	7.75	PN-1321
2.17 (55.12)	4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1116-ND	11.10	9.25	8.35	PN-1322
2.17 (55.12)	4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1119-ND	12.80	10.65	9.60	PN-1323
2.17 (55.12)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1122-ND	17.90	14.90	13.40	PN-1324
2.17 (55.12)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1125-ND	23.70	19.75	17.80	PN-1325
3.15 (80.01)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1127-ND	19.40	16.15	14.55	PN-1327
3.15 (80.01)	4.53 (115.06)	3.54 (89.92)	2.56 (65.02)	377-1129-ND	14.90	12.40	11.15	PN-1328
2.95 (74.93)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1131-ND	26.00	21.65	19.50	PN-1329
3.35 (85.09)	6.30 (160.02)	3.15 (80.01)	2.76 (70.10)	377-1134-ND	16.50	13.75	12.40	PN-1333
2.95 (74.93)	7.87 (199.90)	4.72 (119.89)	2.37 (60.199)	377-1136-ND	23.40	19.50	17.55	PN-1334
3.74 (94.99)	10.43 (264.93)	7.28 (184.91)	2.95 (74.93)	377-1258-ND	38.40	32.15	26.90	PN-1335

(Continued)

Enclosures *(Cont.)*

Fig. 9 — Extruded Aluminum Boxes

- One piece extruded aluminum housing • Individual aluminum end panels • ABS plastic panel bezels • Internal PCB card guides

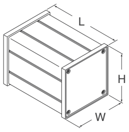

Fig. 10 — Potting Boxes

- ABS thermoplastic • UL94V-0 flammability rating • Suggested service temperature -20°C ~ 70°C • Optional close-fitting covers available in all sizes

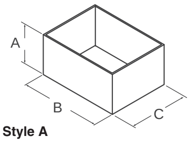

Style A

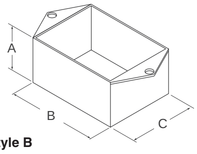

Style B

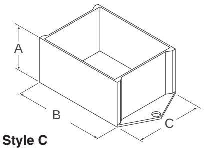

Style C

Fig. 11 — Desktop Cabinet

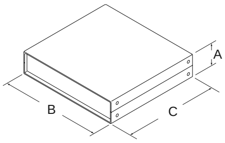

- Sides vented for cooling • Panels 12" "Surface Shield" aluminum; Cover .05" aluminum

Fig. 12 — TR Series Cabinets

- Top and bottom .05" aluminum; front panel .09" aluminum • Extruded aluminum frame • Corner gussets for added support • Carrying handle may be used as tilting bail • Front panel, self-adhesive rubber feet and handle/bail included • Royal blue texture body with white frame and bail

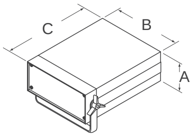

Fig. 13 — Sloping Panel Cabinets

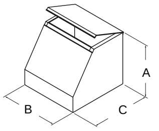

- Steel • Removable front panel • Hinged top opens completely for access to components mounted on chassis

Dimensions - Inch (mm)				Digi-Key	Price Each			Bud Ind.
A	B	C	D	Part No.	1	10	100	Part No.
Fig. 6 — Style 2								
2.17 (55.12)	4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1117-ND	11.40	9.50	8.55	PN-1322-C
2.17 (55.12)	4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1120-ND	13.20	11.00	9.90	PN-1323-C
2.17 (55.12)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1123-ND	18.50	15.40	13.85	PN-1324-C
2.17 (55.12)	6.30 (160.02)	3.15 (80.01)	1.58 (40.13)	377-1133-ND	15.70	13.10	11.80	PN-1332-C
1.57 (39.88)	4.53(115.06)	2.56 (65.02)	0.99 (25.15)	377-1255-ND	10.60	8.85	7.95	PN-1321-C
2.95 (74.93)	8.74(221.99)	5.75 (146.05)	1.58 (40.13)	377-1256-ND	26.00	21.65	19.50	PN-1329-C
2.95 (74.93)	7.87(199.90)	4.72 (119.89)	2.37 (60.20)	377-1257-ND	23.70	19.75	17.80	PN-1334-C
Fig. 6 — Style 3								
1.38 (35.05)	2.56 (65.02)	2.28 (57.91)	0.99 (25.146)	377-1113-ND	5.90	4.90	4.40	PN-1320-DG
1.57 (39.88)	4.53 (115.06)	2.56 (65.02)	0.99 (25.146)	377-1115-ND	7.20	6.00	5.40	PN-1321-DG
2.17 (55.12)	4.53 (115.06)	2.56 (65.02)	1.58 (40.13)	377-1118-ND	8.10	6.75	6.10	PN-1322-DG
2.17 (55.12)	4.53 (115.06)	3.54 (89.92)	1.58 (40.13)	377-1121-ND	9.80	8.15	7.35	PN-1323-DG
2.17 (55.12)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1124-ND	14.20	11.85	10.65	PN-1324-DG
2.17 (55.12)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1126-ND	19.20	16.00	14.40	PN-1325-DG
3.15 (80.01)	6.73 (170.94)	4.76 (120.90)	1.58 (40.13)	377-1128-ND	13.40	11.15	10.05	PN-1327-DG
3.15 (80.01)	4.53 (115.06)	3.54 (89.92)	2.56 (65.02)	377-1130-ND	10.10	8.40	7.55	PN-1328-DG
2.95 (74.93)	8.74 (221.99)	5.75 (146.05)	1.58 (40.13)	377-1132-ND	16.40	13.65	12.30	PN-1329-DG
3.35 (85.09)	6.30 (160.02)	3.15 (80.01)	2.76 (70.10)	377-1135-ND	13.00	10.85	9.75	PN-1333-DG
2.95 (74.93)	7.87 (199.90)	4.72 (119.89)	2.37 (60.199)	377-1137-ND	17.30	14.40	12.95	PN-1334-DG
3.74 (94.99)	10.43 (264.93)	7.28 (184.91)	2.95 (74.93)	377-1259-ND	29.10	24.35	20.36	PN-1335-DG

Aluminum NEMA Boxes

Finish	Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
	L	W	H	Part No.	1	10	100	Part No.
Fig. 7 — NEMA Sealed Die-Cast Enclosures								
Natural	1.38 (35.05)	2.28 (57.91)	2.52 (64.01)	377-1100-ND	6.00	5.00	4.50	AN-1301
	1.18 (29.97)	2.56 (65.02)	4.53 (115.06)	377-1101-ND	8.70	7.25	6.55	AN-1302
	2.17 (55.12)	2.56 (65.02)	4.53 (115.06)	377-1102-ND	10.60	8.85	7.95	AN-1303
	2.17 (55.12)	3.54 (89.92)	4.53 (115.06)	377-1103-ND	12.40	10.35	9.30	AN-1304
	2.17 (55.12)	5.75 (146.05)	8.75 (222.25)	377-1106-ND	23.80	19.85	17.85	AN-1307
	1.18 (29.97)	1.42 (36.07)	3.54 (89.92)	377-1099-ND§	5.80	4.85	4.35	AN-1300
	2.95 (74.93)	4.25 (107.95)	5.83 (148.08)	377-1104-ND§	22.20	18.50	16.65	AN-1305
	2.17 (55.12)	4.76 (120.90)	6.73 (170.94)	377-1105-ND§	22.60	18.85	16.95	AN-1306
Gray	1.18 (29.97)	2.56 (65.02)	4.53 (115.06)	377-1190-ND	14.10	11.75	10.60	AN-1302-G
	2.17 (55.12)	2.56 (65.02)	4.53 (115.06)	377-1191-ND	16.50	13.75	12.40	AN-1303-G
	2.17 (55.12)	3.54 (89.92)	4.53 (115.06)	377-1192-ND	19.80	16.50	14.85	AN-1304-G
	2.95 (74.93)	4.25 (107.95)	5.83 (148.08)	377-1193-ND	31.80	26.50	23.85	AN-1305-G
	2.17 (55.12)	4.76 (120.90)	6.73 (170.94)	377-1194-ND	32.20	26.85	24.15	AN-1306-G
	2.17 (55.12)	5.75 (146.05)	8.75 (222.25)	377-1195-ND	34.60	28.85	25.95	AN-1307-G
Fig. 7 — NEMA Diecast Aluminum Boxes with Mounting Brackets								
Natural	3.54 (89.92)	1.42 (36.07)	1.18 (29.97)	377-1426-ND	12.10	10.10	9.10	AN-2800
Black	3.54 (89.92)	1.42 (36.07)	1.18 (29.97)	377-1427-ND	12.80	10.65	9.60	AN-2800-B
Natural	2.52 (64.01)	2.28 (57.91)	1.38 (35.05)	377-1428-ND	12.50	10.40	9.35	AN-2801
Black	2.52 (64.01)	2.28 (57.91)	1.38 (35.05)	377-1429-ND	13.20	11.00	9.90	AN-2801-B
Natural	4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1430-ND	15.60	13.00	11.70	AN-2802
Black	4.53 (115.06)	2.56 (65.02)	1.18 (29.97)	377-1431-ND	17.00	14.15	12.75	AN-2802-B
Natural	4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1432-ND	17.80	14.85	13.35	AN-2803
Black	4.53 (115.06)	2.56 (65.02)	2.17 (55.12)	377-1433-ND	19.20	16.00	14.40	AN-2803-B
Natural	4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1434-ND	19.40	16.15	14.55	AN-2804
Black	4.53 (115.06)	3.54 (89.92)	2.17 (55.12)	377-1435-ND	21.50	17.90	16.10	AN-2804-B
Natural	5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1436-ND	30.60	25.50	22.95	AN-2805
Black	5.83 (148.08)	4.25 (107.95)	2.95 (74.93)	377-1437-ND	33.90	28.25	25.45	AN-2805-B
Natural	6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1438-ND	31.50	26.25	23.65	AN-2806
Black	6.73 (170.94)	4.76 (120.90)	2.17 (55.12)	377-1439-ND	34.60	28.85	25.95	AN-2806-B
Natural	8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1440-ND	34.00	28.35	25.50	AN-2807

§ No wall mounting holes

Finish	Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
	L	W	H	Part No.	1	10	100	Part No.
Black	8.75 (222.25)	5.75 (146.05)	2.17 (55.12)	377-1441-ND	40.10	33.40	30.05	AN-2807-B
Natural	8.75 (222.25)	5.75 (146.05)	3.25 (82.55)	377-1442-ND	38.80	32.35	29.10	AN-2808
Black	8.75 (222.25)	5.75 (146.05)	3.25 (82.55)	377-1443-ND	45.00	37.50	33.75	AN-2808-B
Natural	4.75 (120.65)	4.75 (120.65)	4.00 (101.6)	377-1444-ND	33.90	28.25	25.45	AN-2809
Black	4.75 (120.65)	4.75 (120.65)	4.00 (101.6)	377-1445-ND	36.80	30.65	27.60	AN-2809-B
Natural	6.25 (158.75)	6.25 (158.75)	4.00 (101.6)	377-1446-ND	38.10	31.75	28.60	AN-2810
Black	6.25 (158.75)	6.25 (158.75)	4.00 (101.6)	377-1447-ND	42.20	35.15	31.65	AN-2810-B
Natural	1.97 (50.04)	1.77 (44.96)	1.12 (28.45)	377-1448-ND	11.80	9.85	8.85	AN-2811
Black	1.97 (50.04)	1.77 (44.96)	1.12 (28.45)	377-1449-ND	12.40	10.35	9.30	AN-2811-B
Natural	3.85 (97.79)	2.52 (64.01)	1.35 (34.29)	377-1450-ND	15.10	12.60	11.35	AN-2812
Black	3.85 (97.79)	2.52 (64.01)	1.35 (34.29)	377-1451-ND	16.30	13.60	12.25	AN-2812-B
Natural	4.90 (124.46)	3.14 (79.76)	1.59 (40.39)	377-1452-ND	18.40	15.35	13.80	AN-2813
Black	4.90 (124.46)	3.14 (79.76)	1.59 (40.39)	377-1453-ND	20.70	17.25	15.55	AN-2813-B
Natural	4.90 (124.46)	3.14 (79.76)	2.26 (57.40)	377-1454-ND	20.30	16.90	15.20	AN-2814
Black	4.90 (124.46)	3.14 (79.76)	2.26 (57.40)	377-1455-ND	22.90	19.10	17.20	AN-2814-B
Natural	5.91 (150.11)	2.52 (64.01)	1.45 (36.83)	377-1456-ND	19.60	16.35	14.70	AN-2815
Black	5.91 (150.11)	2.52 (64.01)	1.45 (36.83)	377-1457-ND	21.20	17.65	15.90	AN-2815-B
Natural	6.29 (159.77)	3.93 (99.82)	2.37 (60.20)	377-1458-ND	30.10	25.10	22.60	AN-2816
Black	6.29 (159.77)	3.93 (99.82)	2.37 (60.20)	377-1459-ND	33.40	27.85	25.05	AN-2816-B
Natural	6.29 (159.77)	3.93 (99.82)	3.19 (81.03)	377-1460-ND	32.40	27.00	24.30	AN-2817
Black	6.29 (159.77)	3.93 (99.82)	3.19 (81.03)	377-1461-ND	35.70	29.75	26.80	AN-2817-B

Econoboxes

Finish	Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
	L	W	H	Part No.	1	10	100	Part No.
Fig. 8 — Econobox Enclosures								
Natural	1.21 (30.73)	1.50 (38.1)	3.62 (91.95)	377-1107-ND	6.90	5.75	5.20	CU-123
	1.21 (30.73)	2.37 (60.198)	4.37 (177.8)	377-1108-ND	7.20	6.05	5.45	CU-124
	2.21 (56.13)	3.68 (93.47)	4.68 (118.87)	377-1109-ND	11.60	9.65	8.70	CU-234
	2.21 (56.13)	4.70 (119.38)	7.39 (187.71)	377-1110-ND	19.60	16.35	14.70	CU-247
	3.21 (81.53)	4.70 (119.38)	7.39 (187.71)	377-1111-ND	23.00	19.20	17.30	CU-347
Fig. 8 — Econoboxes with Mounting Brackets								
Natural	3.62 (91.95)	1.50 (38.1)	1.21 (30.73)	377-1462-ND	10.90	9.10	8.20	CU-4123
Black	3.62 (91.95)	1.50 (38.1)	1.21 (30.73)	377-1463-ND	11.85	9.85	8.85	CU-4123-B
Natural	4.37 (111.00)	2.37 (60.20)	1.21 (30.73)	377-1464-ND	13.20	11.00	9.90	CU-4124
Black	4.37 (111.00)	2.37 (60.20)	1.21 (30.73)	377-1465-ND	14.30	11.90	10.70	CU-4124-B
Natural	4.68 (118.87)	3.68 (93.47)	2.21 (56.13)	377-1466-ND	17.40	14.50	13.05	CU-4234
Black	4.68 (118.87)	3.68 (93.47)	2.21 (56.13)	377-1467-ND	19.40	16.15	14.55	CU-4234-B
Natural	7.39 (187.71)	4.70 (119.38)	2.21 (56.13)	377-1468-ND	23.20	19.35	17.40	CU-4247
Black	7.39 (187.71)	4.70 (119.38)	2.21 (56.13)	377-1469-ND	26.70	22.25	20.05	CU-4247-B
Natural	7.39 (187.71)	4.70 (119.38)	3.21 (81.53)	377-1470-ND	27.10	22.60	20.36	CU-4347
Black	7.39 (187.71)	4.70 (119.38)	3.21 (81.53)	377-1471-ND	30.60	25.50	22.95	CU-4347-B
Natural	2.00 (50.8)	2.00 (50.8)	1.25 (31.75)	377-1472-ND	9.90	8.25	7.45	CU-4470
Black	2.00 (50.8)	2.00 (50.8)	1.25 (31.75)	377-1473-ND	10.60	8.85	7.95	CU-4470-B
Natural	4.33 (109.98)	3.25 (82.55)	1.75 (44.45)	377-1474-ND	14.70	12.25	11.05	CU-4471
Black	4.33 (109.98)	3.25 (82.55)	1.75 (44.45)	377-1475-ND	16.50	13.75	12.40	CU-4471-B
Natural	4.75 (120.65)	3.15 (80.01)	2.33 (59.18)	377-1476-ND	17.10	14.25	12.85	CU-4472
Black	4.75 (120.65)	3.15 (80.01)	2.33 (59.18)	377-1477-ND	19.40	16.15	14.55	CU-4472-B
Natural	4.68 (118.87)	3.68 (93.47)	1.34 (34.04)	377-1478-ND	16.10	13.40	12.05	CU-4473
Black	4.68 (118.87)	3.68 (93.47)	1.34 (34.04)	377-1479-ND	18.10	15.10	13.60	CU-4473-B
Natural	4.75 (120.65)	4.75 (120.65)	2.33 (59.18)	377-1480-ND	21.10	17.60	15.85	CU-4474
Black	4.75 (120.65)	4.75 (120.65)	2.33 (59.18)	377-1481-ND	24.00	20.00	18.00	CU-4474-B
Natural	4.75 (120.65)	4.75 (120.65)	3.75 (95.25)	377-1482-ND	24.40	20.35	18.30	CU-4475
Black	4.75 (120.65)	4.75 (120.65)	3.75 (95.25)	377-1483-ND	27.30	22.75	20.50	CU-4475-B
Natural	6.00 (152.4)	3.25 (82.55)	2.00 (50.8)	377-1484-ND	20.40	17.00	15.30	CU-4476
Black	6.00 (152.4)	3.25 (82.55)	2.00 (50.8)	377-1485-ND	22.70	18.90	17.00	CU-4476-B

(Continued)

Enclosures *(Cont.)*

Dimensions in inch (mm)

Fig. 14 — Slope Enclosure

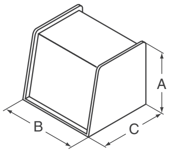

Fig. 15 — Mini Boxes

- .04" aluminum alloy • Two sections slip together and may be joined by either built-in snap lock or sheet metal screws (included)

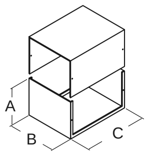

Fig. 16 — Gasketed Enclosures

Meets NEMA 1, 2, 4, 4X, 12 and 13 Ratings.

Indoor Version: • ABS/PC blended plastic with UL94-5VB flammability rating • Clear doors polycarbonate with UL94V-0 flammability rating • Suggested service temperature -40°C ~ 70°C

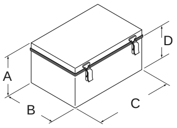

Fig. 17 — Small Compucab Series Cabinets

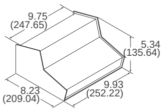

2 Piece Design

- Dual-slope keyboard styling
- Base and side .09" aluminum; back panel and cover .05" aluminum • Rubber feet included

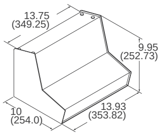

3 Piece Design

Fig. 18 — Champion Cabinets

- No screws on front or rear panel • Ventilation slots in bottom and rear panel • Black top and bottom; white front and rear • .05" aluminum • Four adhesive rubber feet included

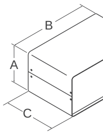

Finish	Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Natural	7.39 (187.71)	4.70 (119.38)	1.50 (38.1)	377-1486-ND	21.30	17.75	16.00	CU-4477
Black	7.39 (187.71)	4.70 (119.38)	1.50 (38.1)	377-1487-ND	24.80	20.65	18.60	CU-4477-B
Natural	7.50 (190.5)	7.50 (190.5)	2.62 (66.55)	377-1488-ND	33.70	28.10	25.30	CU-4478
Black	7.50 (190.5)	7.50 (190.5)	2.62 (66.55)	377-1489-ND	38.20	31.85	28.65	CU-4478-B
Natural	4.37 (111.00)	2.37 (60.20)	2.13 (54.10)	377-1490-ND	15.70	13.10	11.80	CU-4479
Black	4.37 (111.00)	2.37 (60.20)	2.13 (54.10)	377-1491-ND	16.80	14.00	12.60	CU-4479-B

Extruded Aluminum Boxes

Dimensions - Inch (mm) L	W	H	Digi-Key Part No.	Price Each 1	10	100	Bud Ind. Part No.
Fig. 9 — Extruded Aluminum Boxes							
3.81 (96.77)	3.14 (79.76)	1.57 (39.88)	377-1492-ND	13.00	10.85	9.75	EX-4500
5.38 (136.65)	3.14 (79.76)	1.57 (39.88)	377-1493-ND	16.50	13.75	12.40	EX-4501
6.96 (176.78)	3.14 (79.76)	1.57 (39.88)	377-1494-ND	20.00	16.65	15.00	EX-4502
6.14 (155.96)	5.38 (136.65)	3.18 (80.77)	377-1495-ND	25.00	20.85	18.75	EX-4521
6.96 (176.78)	6.14 (155.96)	3.18 (80.77)	377-1496-ND	30.50	25.40	22.85	EX-4522
9.32 (236.73)	6.14 (155.96)	3.18 (80.77)	377-1497-ND	38.50	32.10	28.90	EX-4523
5.38 (136.65)	3.82 (97.03)	3.82 (97.03)	377-1498-ND	20.50	17.10	15.40	EX-4541
6.96 (176.78)	3.82 (97.03)	3.82 (97.03)	377-1499-ND	25.50	21.25	19.15	EX-4542
9.32 (236.73)	3.82 (97.03)	3.82 (97.03)	377-1500-ND	31.50	26.25	23.65	EX-4543

Style	Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 10 — Potting Boxes								
A	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1173-ND	1.16	.97	PB-1558
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1176-ND	1.69	1.41	PB-1559
		.75 (19.05)	1.00 (25.4)	1.00 (25.4)	377-1180-ND	.68	.57	PB-1577
B	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1175-ND	1.27	1.06	PB-1558-TF
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1178-ND	1.82	1.52	PB-1559-TF
		1.50 (38.1)	3.00 (76.2)	3.00 (76.2)	377-1179-ND	1.83	1.53	PB-1576-TF
C	Black	1.00 (25.4)	2.00 (50.8)	1.50 (38.1)	377-1174-ND	1.27	1.06	PB-1558-BF
		1.50 (38.1)	3.00 (76.2)	2.00 (50.8)	377-1177-ND	1.82	1.52	PB-1559-BF
Optional Close-Fitting Covers								
Cover for PB-1558-BF					377-1181-ND	.67	.56	PBC-1558-C
Cover for PB-1558/1558-TF					377-1182-ND	.67	.56	PBC-1558-CN
Cover for PB-1559-BF					377-1183-ND	.78	.65	PBC-1559-C
Cover for PB-1559/1559-TF					377-1184-ND	.76	.64	PBC-1575-C
Cover for PB-1576-TF					377-1185-ND	.99	.83	PBC-1576-C
Cover for PB-1577					377-1186-ND	.40	.34	PBC-1577-C

Small Cabinets

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 11 — SLIMCAB™ Desktop Cabinet								
Sand Text.	1.75 (44.45)	8.50 (215.9)	8.0 (203.2)	377-1187-ND	63.40	—	52.90	CS-11221-S
Fig. 12 — TR Series								
Blue/White	3.50 (88.9)	8.31 (211.07)	10.75 (273.05)	377-1312-ND	237.90	198.65	—	TR-6100
	5.25 (133.35)	8.31 (211.07)	13.25 (336.55)	377-1313-ND	254.70	212.65	—	TR-6101
Blue/White	7.00 (177.8)	11.06 (280.9)	13.25 (336.55)	377-1055-ND	291.60	243.45	—	TR-6102
Fig. 13 — Sloping Panel Cabinets								
Metallic Gray	6.50 (165.1)	7.06 (179.3)	7.31 (185.7)	377-1066-ND	49.80	—	41.65	C-1584
	6.50 (165.1)	9.06 (230.1)	7.31 (185.7)	377-1067-ND	48.00	—	40.05	C-1585
	6.50 (165.1)	11.06 (280.9)	7.31 (185.7)	377-1068-ND	53.80	—	44.90	C-1586
	8.00 (203.2)	10.06 (255.5)	8.00 (203.2)	377-1069-ND	60.30	—	50.37	C-1588
	8.00 (203.2)	13.06 (331.7)	8.50 (215.9)	377-1070-ND	80.30	—	67.10	C-1892
	10.00 (254)	18.06 (458.37)	10.50 (266.7)	377-1071-ND	118.50	—	98.90	C-1893
	8.00 (203.2)	14.06 (357.1)	8.00 (203.2)	377-1072-ND	73.20	—	61.15	C-1894
	9.00 (228.6)	18.06 (458.7)	8.18 (207.78)	377-1073-ND	101.90	—	85.10	C-1896
Fig. 14 — Slope Enclosures, Solid Top (.09" Base, .05" Cover with Rubber Feet)								
Black/White	4.25 (107.95)	4.93 (125.22)	5.00 (127)	377-1074-ND*	42.90	35.80	—	SC-12100
	3.25 (82.55)	11.93 (303.02)	10.00 (254)	377-1075-ND	77.10	64.40	—	SC-12101

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 15 — Mini Boxes								
Gray	1.62 (41.15)	2.12 (53.85)	2.75 (69.85)	377-1076-ND	5.30	—	4.40	CU-2100-B
	1.62 (41.15)	2.12 (53.85)	3.25 (82.55)	377-1077-ND	5.40	—	4.50	CU-2101-B
	1.62 (41.15)	2.12 (53.85)	4.00 (101.6)	377-1078-ND	5.60	—	4.65	CU-2102-B
	2.25 (57.15)	2.25 (57.15)	4.00 (101.6)	377-1079-ND	5.80	—	4.85	CU-2103-B
	3.00 (76.2)	4.00 (101.6)	5.00 (127)	377-1080-ND	8.50	—	7.10	CU-2105-B
	2.12 (53.85)	3.00 (76.2)	5.25 (133.35)	377-1081-ND	6.90	—	5.70	CU-2106-B
	4.00 (101.6)	5.00 (127)	6.00 (152.4)	377-1082-ND	12.00	—	10.10	CU-2107-B
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1083-ND	11.60	—	9.70	CU-2108-B
	3.50 (88.9)	6.00 (152.4)	8.00 (203.2)	377-1084-ND	23.30	—	19.50	CU-2109-B
	3.50 (88.9)	6.00 (152.4)	10.00 (254)	377-1085-ND	24.70	—	20.60	CU-2110-B
	4.00 (101.6)	7.00 (177.8)	12.00 (304.8)	377-1086-ND	32.70	—	27.35	CU-2111-B
Natural	1.62 (41.15)	2.12 (53.85)	2.75 (69.85)	377-1087-ND	3.50	—	2.90	CU-3000-A
	1.62 (41.15)	2.12 (53.85)	3.25 (82.55)	377-1088-ND	3.90	—	3.25	CU-3001-A
	1.62 (41.15)	2.12 (53.85)	4.00 (101.6)	377-1089-ND	4.30	—	3.60	CU-3002-A
	2.25 (57.15)	2.25 (57.15)	4.00 (101.6)	377-1090-ND	4.60	—	3.80	CU-3003-A
	2.25 (57.15)	2.25 (57.15)	5.00 (127)	377-1091-ND	5.50	—	4.60	CU-3004-A
	3.00 (76.2)	4.00 (101.6)	5.00 (127)	377-1092-ND	7.00	—	5.85	CU-3005-A
	2.12 (53.85)	3.00 (76.2)	5.25 (133.35)	377-1093-ND	5.60	—	4.60	CU-3006-A
	4.00 (101.6)	5.00 (127)	6.00 (152.4)	377-1094-ND	10.00	—	8.40	CU-3007-A
	3.00 (76.2)	5.00 (127)	7.00 (177.8)	377-1095-ND	9.00	—	7.50	CU-3008-A
	3.50 (88.9)	6.00 (152.4)	8.00 (203.2)	377-1096-ND	14.10	—	11.75	CU-3009-A
	3.50 (88.9)	6.00 (152.4)	10.00 (254)	377-1097-ND	17.80	—	14.85	CU-3010-A
	4.00 (101.6)	7.00 (177.8)	12.00 (304.8)	377-1098-ND	22.50	—	18.75	CU-3011-A

* Single knockout only — centered

UL/NEMA/IEC Gasketed Enclosures

Dimensions - Inch (mm) A	B	C	D	Digi-Key Part No.	Price Each 1	5	15	Bud Ind. Part No.
Fig. 16 — NBA Series – Stainless Steel Hinges								
7.09 (180.09)	11.80 (299.72)	7.85 (199.39)	5.90 (149.86)	377-1138-ND†	64.10	53.40	48.05	NBA-10144
7.09 (180.09)	15.75 (400.05)	11.80 (299.72)	5.90 (149.86)	377-1139-ND†	94.50	78.75	70.90	NBA-10148
5.97 (151.64)	11.80 (299.72)	7.85 (199.39)	4.80 (121.92)	377-1140-ND§	60.90	50.75	45.70	NBA-10162
Fig. 16 — NBB Series – Plastic Hinges								
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1141-ND†	20.20	16.85	15.15	NBB-10240
5.50 (141.35)	11.28 (286.512)	7.47 (189.79)	4.33 (109.98)	377-1142-ND†	41.90	34.90	31.40	NBB-10243
7.04 (178.82)	13.00 (330.2)	13.00 (330.2)	5.86 (148.84)	377-1143-ND†	57.90	48.25	43.45	NBB-10245
6.30 (160.02)	15.68 (398.27)	11.73 (297.94)	5.11 (129.79)	377-1144-ND†	58.40	48.65	43.80	NBB-10247
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1245-ND§	22.10	18.40	16.55	NBB-10260
3.57 (90.68)	5.90 (149.86)	5.90 (149.86)	2.75 (69.85)	377-1246-ND†	22.30	18.60	16.75	NBB-15240
Fig. 16 — NBD Series – Non-Metallic Phillips Drive Fasteners								
5.03 (127.76)	7.48 (189.99)	11.02 (279.91)	3.85 (97.79)	377-1145-ND†	42.60	35.50	31.95	NBD-10442
Fig. 16 — NBE Series – Plastic Hinges/Aluminum Swing-out Panel								
5.50 (141.35)	7.47 (189.79)	11.28 (286.512)	4.33 (109.98)	377-1146-ND§	78.80	65.80	59.20	NBE-10563
6.30 (160.02)	11.73 (297.94)	15.68 (398.27)	5.11 (129.79)	377-1147-ND§	103.10	86.10	77.50	NBE-10567
7.85 (199.39)	14.64 (371.86)	19.17 (486.92)	6.67 (169.42)	377-1148-ND§	156.10	130.35	117.30	NBE-10573

† Solid doors § Clear doors

Small Cabinets

Description	Digi-Key Part No.	Price Each 1	5	15	Bud Ind. Part No.
Fig. 17 — Small Metal Enclosures – Compucab Series					
2 pc. Design	377-1296-ND	83.00	69.30	62.35	SC-13100
3 pc. Design	377-1297-ND	161.60	134.90	121.41	SC-13101

(Continued)

Dimensions in inch (mm)

Fig. 19 — Portacab Cabinets

- Designed for bench or portable use
- Louvered sides
- .05" aluminum
- Metallic gray
- Handle capacity 25 pounds
- Four plastic feet included

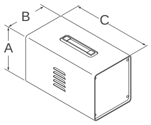

Fig. 20 — Converta Boxes

- Welded base and two-sided cover
- .05" aluminum
- Natural finish

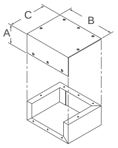

Fig. 21 — Plasticases

PC-11402 – PC-11416:

- Impact resistant polystyrene
- UL94-HB flammability rating
- Molded-in card guides and mounting bosses
- Double-textured PC bone gray

PC-11438:

- Black ABS covers
- UL94-HB flammability rating
- Clear anodized aluminum front and rear panels
- Internal steel channels provide extra strength and ease of assembly
- Formed guide tabs accept vertical or horizontal circuit boards

PC-11482-A:

- Dark gray ABS covers with natural finish aluminum end panels
- UL94V-0 flammability rating
- Suggested service temperature -40°C ~ 80°C

Style 1

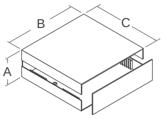

Style 2

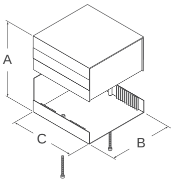

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No	Price Each 1	5	10	Bud Ind. Part No.
Fig. 18 — Champion Series Cabinets								
Black	6.00 (152.4)	12.00 (304.8)	10.00 (254)	377-1210-ND	77.30	—	64.50	CS-11212-BT
	8.00 (203.2)	9.00 (228.6)	8.00 (203.2)	377-1211-ND	75.40	—	62.90	CS-11214-BT
	8.00 (203.2)	12.00 (304.8)	10.00 (254)	377-1212-ND	84.60	—	70.60	CS-11216-BT
Fig. 19 — Portacab Cabinets								
Gray	8.00 (203.2)	6.12 (155.45)	8.00 (203.2)	377-1315-ND	81.60	68.10	—	WA-1540
	9.00 (228.6)	8.12 (206.25)	12.00 (304.8)	377-1316-ND	112.60	94.00	—	WA-1541
	8.00 (203.2)	10.12 (257.05)	8.00 (203.2)	377-1317-ND	95.80	80.05	—	WA-1542
	11.00 (279.4)	11.12 (282.45)	18.00 (457.2)	377-1318-ND	153.60	128.25	—	WA-1543
Fig. 20 — Converta Boxes								
Natural	2.00 (50.8)	8.00 (203.2)	4.00 (101.6)	377-1221-ND	14.40	—	12.00	CU-482-A
	2.50 (63.5)	9.50 (241.3)	5.00 (127)	377-1222-ND	15.80	—	13.20	CU-592-A
	2.50 (63.5)	12.00 (304.8)	6.00 (152.4)	377-1223-ND	20.80	—	17.34	CU-622-A

Style	Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 21 — Plasticases								
1	Gray	1.53 (38.86)	5.08 (129.03)	5.30 (134.62)	377-1149-ND	13.30	11.10	PC-11402
		2.52 (64.01)	8.10 (205.74)	6.32 (160.53)	377-1150-ND	20.40	17.00	PC-11408
		2.56 (65.02)	10.24 (260.10)	7.09 (180.09)	377-1156-ND	32.80	27.35	PC-11482-A
	Black	4.02 (102.11)	9.72 (246.89)	8.66 (219.96)	377-1155-ND	58.20	48.55	PC-11438
2	Gray	3.30 (83.82)	6.12 (155.49)	6.32 (160.53)	377-1151-ND	21.00	17.50	PC-11410
		3.30 (83.82)	8.10 (205.74)	6.32 (160.53)	377-1152-ND	24.30	20.30	PC-11412
		4.04 (102.62)	6.12 (155.49)	6.32 (160.53)	377-1153-ND	22.10	18.45	PC-11414
		4.04 (102.62)	8.10 (205.74)	6.32 (160.53)	377-1154-ND	25.80	21.55	PC-11416

ValuRack

- *Lowest Cost*
- *Sturdy Welded Construction*

Bud Industries, Inc.

Bud's ValuRack — The Lowest Cost Welded Rack Available Guaranteed to Ship in 48 Hours or Bud Industries will PAY THE FREIGHT

ValuRack

Bud Ind. Part No.	Panel Space	Overall Size H x W x D	Clear Inside Depth	Weight Lbs.
VR-8924*	61.25"	66.56" x 22.00" x 26.00"	24.00"	106
VR-8925*	70.00"	75.31" x 22.00" x 26.00"	24.00"	114
VR-8926*	78.75"	84.06" x 22.00" x 26.00"	24.00"	121

*Due to weight and size, product will be drop shipped from Bud Industries direct to our customers. Call Digi-Key for further information.

Bud's Quick-Pick Cabinet Accessory Chart

Description	Digi-Key Part No.	Price Each 1	10	20	Bud Ind. Part No.
Mounting Rail for 61.25" Panel Space (1 pr.)	PMR-9452-ND	92.20	—	—	PMR-9452
Mounting Rail for 70" Panel Space (1 pr.)	377-1413-ND	120.70	90.70	80.65	PMR-9453
Mounting Rail for 78.72" Panel Space (1pr.)	PMR-9454-ND	106.90	—	—	PMR-9454
Casters (1 pr.)	377-1264-ND	32.90	27.40	24.65	RC-7758-PR
Leveler Kit for Economizer Racks	377-1267-ND	46.00	—	—	RL-7770
Power Strip – Rack Mounted (Front)	377-1414-ND	66.00	46.25	39.60	POS-194-S
Shelf – Stationary and Vented	377-1307-ND	83.20	52.00	47.85	SH-2384
Shelf – Stationary and Solid	377-1306-ND	89.30	55.80	51.35	SH-2382
Shelf – Sliding and Vented	377-1415-ND	146.40	102.50	84.20	SH-2392
Shelf – Sliding and Solid	377-1416-ND	144.00	100.80	82.80	SH-2388
Fan Tray	377-1227-ND	235.50	164.85	147.21	FT-1170-MG
Fans for Tray	377-1225-ND	46.88	28.15	26.25	FN-1280
Blower	B-60-ND	469.05	—	—	B-60
Panel – 1U	377-1247-ND	10.35	8.65	8.24	PA-1101-MG
Panel – 2U	377-1248-ND	14.40	12.00	11.52	PA-1102-MG
Panel – 2U	377-1249-ND	19.70	16.40	15.76	PA-1103-MG

Bud Industries, Inc.

The Right Rack for Every Cabinet Project

Racks

377-1412-ND	Design Tips Handbook......................	$1.99

Dimensions in inch (mm)

Fig. 1 — Open Racks Swing Frame

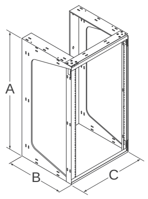

- Left or right hand hinge
- Velcro cable straps included
- 75pounds load capacity
- Use 377-1404-ND screws
- Black texture

Fig. 2 — Aluminum Open Racks

- Panel holes #12-24 tapped
- 1,000 pounds load capacity
- Use 377-1404-ND screws

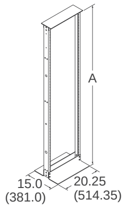

Fig. 3 — Rack Mount Chassis

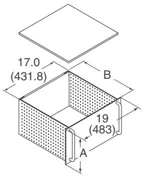

- Front panel .12" thick mill finish aluminum with "Surface Shield" protection
- Side panels are punched on a .87" grid
- Handles and covers sold separately

Fig. 4 — Small Rack Mount Chassis

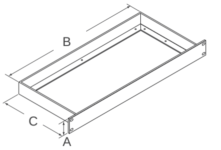

- Panels .10" thick aluminum; chassis .05" thick aluminum
- Covers sold separately

Fig. 5 — ValuLine Cabinets

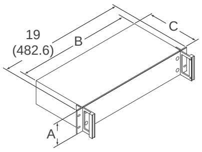

- Side and front panels .09" aluminum; base, rear and top .05" aluminum
- 25 lbs. load capacity
- Rack mounting brackets and rubber feet included

Fig. 6 — Keyboard/Mouse Shelf

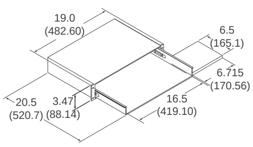

- Fits 19" panel
- Mouse pad slides underneath right or left
- Takes up 2-U of panel space

Fig. 7 — Sliding Drawer

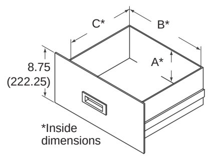

- Fits 19" panel
- Supports heavy loads, even when fully extended

Fig. 8 — Stationary Shelves

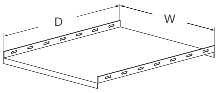

- Fits 19" wide panel spaces
- Supports up to 200 pounds
- Requires two pairs of panel mounting rails per cabinet

Fig. 9 — Adjustable Shelf

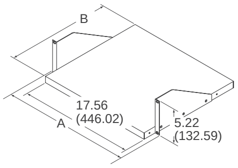

- Fits 19" panel spaces
- Adjustable for depth within rack
- Supports 150 pounds

Fig. 10 — Equipment Shelves

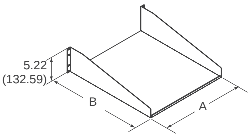

- Fits 19" panel spaces
- One piece construction
- Supports 150 pounds

Open Racks

Color	Dimensions - Inch (cm) A	B	C	Digi-Key Part No	Price Each 1	5	Bud Ind. Part No.
Fig. 1 — Open Racks Swing Frame – Knockdown Assembly							
Black	38.00 (96.52)	21.25 (53.98)	18.00 (45.72)	377-1299-ND	174.10	130.60	SF-2194

Color	Dimensions - Inch (cm) A	Panel Space	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 2 — Aluminum Open Racks						
Black	84.00 (213.36)	77.00 x 19.00 (195.58 x 48.26)	377-1196-ND	176.40	147.30	ARR-1272-BT
Natural	84.00 (213.36)	77.00 x 19.00 (195.58 x 48.26)	377-1197-ND	165.90	138.55	ARR-1272-NF

Rack Mount Chassis

Dimension A Inch (mm)	Dimension B Inch (mm)	Handles	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 3 — Rack Mount Chassis							
5.25 (133.35)	17.06 (433.32)	H-9160-B	377-1268-ND	64.80	54.10	48.70	RM-14212
7.00 (177.8)	17.06 (433.32)	H-9111-B	377-1269-ND	74.20	61.95	55.75	RM-14213
5.25 (133.35)	22.00 (558.8)	H-9160-B	377-1392-ND	73.00	60.95	54.85	RM-14222
7.00 (177.8)	22.00 (558.8)	H-9111-B	377-1393-ND	85.60	71.50	64.35	RM-14223
8.75 (222.25)	22.00 (558.8)	H-9112-B	377-1394-ND	104.30	87.10	78.40	RM-14224
10.50 (266.7)	22.00 (558.8)	H-9113-B	377-1395-ND	124.30	103.80	93.40	RM-14225

Description	Fits Chassis	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Rack Mount Chassis Covers					
Solid Top or Bottom Cover	RM-14212-13	377-1310-ND	29.60	24.75	TBC-14252
Ventilated Top or Bottom Cover		377-1311-ND	33.10	27.65	TBC-14262
Solid Top or Bottom Cover	RM-14222-25	377-1396-ND	33.60	28.10	TBC-14253
Ventilated Top or Bottom Cover		377-1397-ND	35.50	29.70	TBC-14263

Dimensions - A x B x C Inch (mm)	Fits Rack Inch (mm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 4 — Small Rack Mount Chassis					
1.75 x 17.00 x 4.00 (44.45 x 431.8 x 101.6)	19.00 (482.6)	377-1205-ND	27.90	23.30	CH-14400
1.75 x 17.00 x 8.00 (44.45 x 431.8 x 203.2)	19.00 (482.6)	377-1206-ND	41.60	34.75	CH-14401
1.75 x 17.00 x 16.00 (44.45 x 431.8 x 406.4)	19.00 (482.6)	377-1207-ND	60.00	50.15	CH-14402
3.50 x 17.00 x 8.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1208-ND	61.40	51.25	CH-14403
3.50 x 17.00 x 16.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1209-ND	78.80	65.80	CH-14404

Description	Fits Chassis	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Small Rack Mount Chassis Covers					
Ventilated Top or Bottom Cover	CH-14400	377-1417-ND	9.80	8.20	C-14430
Solid Top or Bottom Cover		377-1420-ND	7.20	6.00	C-14440
Ventilated Top or Bottom Cover	CH-14401, 03	377-1418-ND	16.50	13.80	C-14431
Solid Top or Bottom Cover		377-1421-ND	11.40	9.50	C-14441
Ventilated Top or Bottom Cover	CH-14402, 04	377-1419-ND	26.40	22.05	C-14432
Solid Top or Bottom Cover		377-1422-ND	19.40	16.20	C-14442

Dimensions - A x B x C Inch (mm)	Fits Rack Inch (mm)	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 5 — ValuLine Series Cabinets (with handles)					
3.50 x 17.00 x 8.00 (88.9 x 431.8 x 203.2)	19.00 (482.6)	377-1238-ND	97.00	81.00	HC-14099
3.50 x 17.00 x 13.00 (88.9 x 431.8 x 330.2)	19.00 (482.6)	377-1239-ND	188.90	157.70	HC-14101
5.25 x 17.00 x 13.00 (133.35 x 431.8 x 330.2)	19.00 (482.6)	377-1240-ND	194.70	162.60	HC-14103
7.00 x 17.00 x 13.00 (177.8 x 431.8 x 330.2)	19.00 (482.6)	377-1241-ND	204.40	170.70	HC-14104
8.75 x 17.00 x 13.00 (222.25 x 431.8 x 330.2)	19.00 (482.6)	377-1242-ND	214.20	178.85	HC-14105
10.50 x 17.00 x 15.00 (266.7 x 431.8 x 381)	19.00 (482.6)	377-1243-ND	239.60	200.05	HC-14107

Accessories

Color	Maximum Panel Keyboard Width – Inch (cm)	Digi-Key Part No.	Price Each 1	10	Bud Ind. Part No.
Fig. 6 — Keyboard/Mouse Shelf					
Black	19.0 x 16.5 (48.26 x 41.91)	377-1244-ND	180.00	150.30	KS-1785-BT

Color	Dimensions - Inch (cm) A	B	C	Digi-Key Part No.	Price Each 1	5	Bud Ind. Part No.
Fig. 7 — Sliding Drawer (inside dimensions)							
Black	6.31 (16.03)	16.56 (42.06)	19.18 (48.72)	377-1224-ND	268.50	224.20	D-1723-BT

Color	Dimensions - Inch (cm) Width	Depth	Digi-Key Part No.	Price Each 1	3	5	Bud Ind. Part No.
Fig. 8 — Stationary Shelves-Non Ventilated							
Black	17.90 (45.47)	26.50 (67.31)	377-1306-ND	89.30	66.90	62.50	SH-2382
	17.90 (45.47)	19.25 (48.90)	377-1188-ND	79.40	59.50	55.60	60-2380
	17.90 (45.47)	22.75 (57.79)	377-1189-ND	83.40	62.50	58.40	60-2381
	17.00 (43.18)	17.75 (45.09)	377-1416-ND†	144.00	—	107.90	SH-2388
Fig. 8 — Stationary Shelves-Ventilated							
Black	17.90 (45.47)	17.75 (45.09)	377-1307-ND	83.20	62.35	58.25	SH-2384
	17.90 (45.47)	21.25 (53.98)	377-1308-ND	86.30	64.65	60.40	SH-2385
	17.90 (45.47)	26.50 (67.31)	377-1309-ND	93.50	70.05	65.45	SH-2386
	17.00 (43.18)	17.75 (45.09)	377-1415-ND†	146.40	—	109.70	SH-2392

† Sliding Shelf

Color	Dimensions - Inch (cm) A	B	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 9 — Adjustable Shelf-Open Rack							
Black	17.62 (44.75)	20.00 (50.80)	377-1290-ND	108.90	90.90	81.81	SA-1279-BT
Fig. 10 — Equipment Shelves-Open Rack-Non Ventilated							
Black	17.62 (44.75)	15.00 (38.10)	377-1291-ND	73.60	61.45	55.30	SA-1750-BT
	17.62 (44.75)	20.00 (50.80)	377-1293-ND	88.00	73.50	66.15	SA-1752-BT
Fig. 10 — Equipment Shelves-Open Rack-Ventilated							
Black	17.62 (44.75)	15.00 (38.10)	377-1292-ND	80.40	67.15	60.45	SA-1751-BT
	17.62 (44.75)	20.00 (50.80)	377-1294-ND	95.40	79.65	71.70	SA-1753-BT
Fig. 11 — Open Rack Shelf-Non Ventilated							
Black	17.62 (44.75)	19.00 (48.26)	377-1295-ND	92.80	77.50	69.75	SA-1765-BT

Wheel Description	Dimension A Inch (mm)	Load Rating	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 12 — Casters (Sold in Pairs)							
Composition	3.25 (82.55)	200 lbs.	377-1264-ND	32.90	27.40	21.90	RC-7758-PR
Rubber with Brake	5.13 (130.18)	240 lbs.	377-1265-ND	77.50	64.60	58.16	RC-7761-PR
Rubber	5.13 (130.18)	240 lbs.	377-1266-ND	67.00	55.85	50.25	RC-7762-PR

(Continued)

Dimensions in inch (mm)

Fig. 11 — Open Rack Shelf

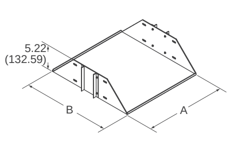

- Fits 19” panel spaces • Supports 200 pounds

Fig. 12 — Casters

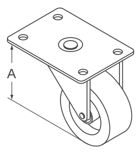

- Heavy duty, ball bearing, swivel type • Hard tread rubber

Fig. 13 — Handles

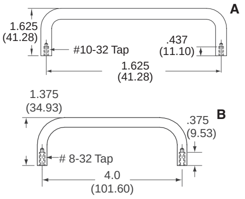

- High quality • Designed for long wear

Fig. 14 — Panels

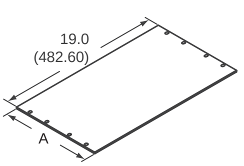

Fig. 15 — Chassis Support Brackets

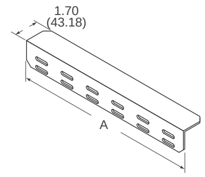

- Attaches to panel mounting rail accessory flange • Sold in pairs

Fig. 16 — Panel Mounting Rails

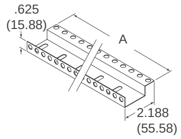

- 12 gauge steel • Rail mounting hardware included (Use 377-1403-ND screws, sold separately) • Black finish • Sold in pairs

Fig. 17 — Slides

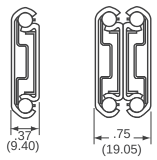

- Telescoping • Zinc-plated alloy steel with ball bearings

Fig. 18 — Slide Mounting Brackets

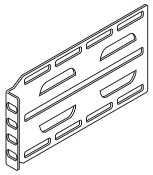

- Designed for mounting two and three piece slides • Sold in pairs

Fig. 19 — Tem-Stat Temperature Control

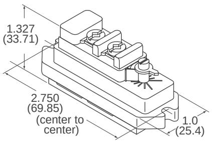

- Contacts open when there is a 10°F drop in temperature • Prevents shut-downs caused by overheating

Fig. 20 — Fans and Blowers

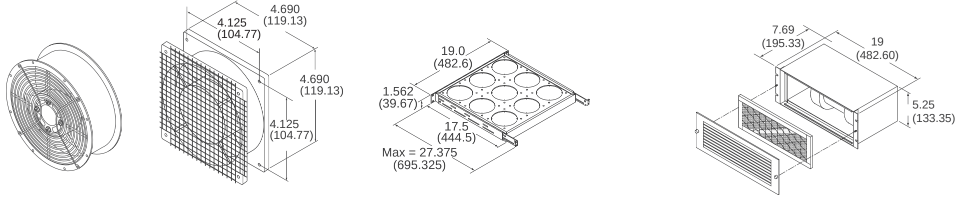

FN-1280: • Mounts in FT-1170 fan tray or can be used for individual applications • Supplied with finger guard • UL approved, 105 CFM

FN-1282: • Mounts in top of ventilated Economizer racks • Supplied with finger guard • UL/CSA rated, 535 CFM

- 19” panel width with standard EIA notching for rack mounting • Motors are UL and CSA approved for 115VAC, 50/60Hz

Fig. 21 — Fan Tray Assemblies

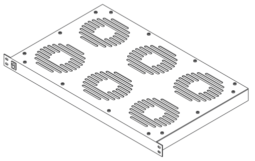

- Standard EIA 19.00” x 1-U (1.75”) panel mounting
- 115VAC • 7’ long, three prong, power cord

Dimensions - Inch (mm)			Digi-Key	Price Each			Bud Ind.
Hand Clearance	Mounting Center	Diameter	Part No.	1	10	100	Part No.
Fig. 13A — Chrome Plated Handles							
1.25 (31.75)	6.00 (152.4)	.37 (9.398)	377-1228-ND*	8.30	6.95	6.25	H-9110-B
.93 (23.62)	4.00 (101.6)	.37 (9.398)	377-1229-ND*	6.40	5.30	4.75	H-9111-B
.93 (23.62)	6.00 (152.4)	.37 (9.398)	377-1230-ND*	7.80	6.50	5.85	H-9112-B
.93 (23.62)	8.00 (203.2)	.37 (9.398)	377-1231-ND	10.60	8.85	7.95	H-9113-B
1.50 (38.1)	8.00 (203.2)	.50 (12.7)	377-1232-ND†	16.50	13.80	12.40	H-9114-B
1.68 (3.36)	3.50 (88.9)	.37 (9.398)	377-1233-ND†	12.40	10.35	9.30	H-9160-B
1.68 (3.36)	5.25 (133.35)	.37 (9.398)	377-1234-ND†	10.60	8.90	8.00	H-9161-B
1.00 (25.4)	1.90 (48.26)	.25 (6.35)	377-1235-ND§	6.00	5.00	4.50	H-9166-B
1.00 (25.4)	3.00 (76.2)	.25 (6.35)	377-1236-ND§	5.70	4.70	4.25	H-9168-B

* Includes 2 - #10-32 x .37" screws. † Includes 2 - #6-32 x .50" screws. § Includes 2 - 1/4"-28 Hex nuts.

Dimensions - Inch (mm)		Digi-Key	Price Each			Bud Ind.
Hand Clearance	Mounting Center	Part No.	1	10	100	Part No.
Fig. 13B — Clear Anodized Aluminum Handle						
1.09 (27.69)	4.00 (101.6)	377-1237-ND*	10.85	9.05	8.15	H-9174-B

* Includes 2-8.32 x .37" screws

Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	Bud Ind. Part No.
Fig. 14 — 19" Aluminum Surface Shield Panels - .12" Thick					
1.75 (44.45)	377-1300-ND	9.50	7.95	7.15	SFA-1831
3.50 (88.9)	377-1301-ND	13.90	11.55	10.40	SFA-1832
5.25 (133.35)	377-1302-ND	17.80	14.90	13.40	SFA-1833
7.00 (177.8)	377-1303-ND	22.80	19.05	17.15	SFA-1834
8.75 (222.25)	377-1304-ND	25.00	20.85	18.75	SFA-1835
10.50 (266.7)	377-1305-ND	32.40	27.00	24.30	SFA-1836
Fig. 14 — 19" Aluminum Panels – .12" Thick (Gray)					
1.75 (44.45)	377-1247-ND	10.35	8.65	7.80	PA-1101-MG
3.50 (88.9)	377-1248-ND	14.40	12.00	10.80	PA-1102-MG
5.25 (133.35)	377-1249-ND	19.70	16.40	14.75	PA-1103-MG
7.00 (177.8)	377-1250-ND	24.50	20.50	18.45	PA-1104-MG
8.75 (222.25)	377-1251-ND	29.70	24.80	22.30	PA-1105-MG
10.50 (266.7)	377-1252-ND	37.70	31.50	28.35	PA-1106-MG
12.25 (311.15)	377-1253-ND	41.40	34.50	31.05	PA-1107-MG
14.00 (355.6)	377-1254-ND	46.10	38.45	34.60	PA-1108-MG
Fig. 15 — Chassis Support Brackets (Sold in Pairs)					
13.00 (330.2)	377-1213-ND	30.30	25.30	22.75	CSB-1352
16.00 (406.4)	377-1214-ND	32.80	27.38	24.66	CSB-1353
23.00 (584.2)	377-1215-ND	35.50	29.63	26.69	CSB-1354

Dimension A Inch (cm)	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 16 — Panel Mounting Rails (Sold in Pairs)					
70.0 (177.80)	377-1413-ND	120.70	100.80	90.70	PMR-9453

Dimensions - Inch (cm)		Load Rating	Digi-Key	Price Each			Bud Ind.
Slide Length	Travel	(per pair)	Part No.	1	3	5	Part No.
Fig. 17 — Sliding Mechanisms - 2 Piece Slide							
12 (30.48)	8 (20.32)	140 lbs.	377-1199-ND	30.50	25.45	22.90	AS-5000-A
16 (40.64)	12 (30.48)	120 lbs.	377-1200-ND	40.10	33.50	30.15	AS-5001-A
20 (50.80)	15 (38.10)	92 lbs.	377-1201-ND	42.00	35.10	31.60	AS-5002-A
26 (66.04)	19 (48.26)	70 lbs.	377-1202-ND	46.40	38.75	34.90	AS-5004-A
20 (50.80)	20.875 (53.02)	91 lbs.	377-1203-ND*	91.00	76.00	68.40	AS-5042-A

* 3 piece slide full extension

Description	Digi-Key Part No.	Price Each 1	3	5	Bud Ind. Part No.
Fig. 18 — Slide Mounting Brackets (Sold in Pairs)					
Universal Kit	377-1204-ND	30.20	25.05	22.55	BAS-5106

Description	Digi-Key Part No.	Price Each 1	5	10	Bud Ind. Part No.
Fig. 19 — Tem-Stat Temperature Control					
Normally Open; Closes on Temperature Rise...	377-1314-ND	23.70	—	17.80	TS-15
Rack Mount Power Outlet Strip					
15 Amps.......................................	377-1414-ND	66.00	49.50	46.25	POS-194-S
Mounting Hardware					
10-32 X .62" Phillips Screw Truss Head........	377-1403-ND		4.00/25		7346
10-32 X .62" Phillips Screw with Pilot, Black...	377-1409-ND		7.00/25		7346B
10-32 Cage Nut, Zinc-Plated	377-1405-ND		21.25/25		295
12-24 X .5" Phillips Screw Truss Head	377-1404-ND		5.00/25		9260
Fig. 20 — Fans and Blowers					
Tubeaxial, 110V, .21 Amps	377-1225-ND	46.88	37.50	28.15	FN-1280
Exhaust, 10 inch, 115VAC......................	377-1226-ND	179.60	134.70	125.70	FN-1282
Fan Tray Assembly	377-1227-ND*	235.50	176.65	164.85	FT-1170-MG
Blower, 115VAC	377-1411-ND	642.00	481.57	449.43	B-62
Fig. 21 — Fan Tray Assemblies					
Assembly with 3 Fans, Total CFM 315..........	377-1423-ND	205.80	149.20	144.05	FT-1973
Assembly with 6 Fans, Total CFM 630..........	377-1424-ND	316.60	229.55	221.60	FT-1976
Assembly with 9 Fans, Total CFM 945..........	377-1425-ND	415.30	301.10	290.70	FT-1979

* Fans sold separately, part number 377-1225-ND.

Fig. 1

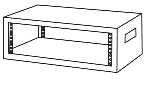

Desk Top Rack (Light-Duty)- RCBS Series - 18-gauge steel economy 19" table top rack. Rails are fixed at both front and rear. Includes rubber feet, 2 lifting handles and 10-32 clip nuts. Overall width 20", overall height 1" over panel space. Finish textured; black or gray/beige (Ral7032) powder paint.

Fig. 2

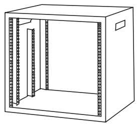

Desk Top Rack (Heavy-Duty) - RCHS Series- 18 gauge steel 19" table top rack. Rails are fixed at both front and rear. Includes 2 pair of fixed accessory rails (for rear support of heavier equipment), rubber feet, 2 lifting handles and 10-32 clip nuts. Overall height: 2" larger than panel height. Finish textured; black, gray/beige (RAL7032) or gulf blue powder paint.

Fig. 3

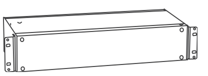

Rack Mount/Desk Top Enclosure RMCS & RMCV Series- mounts in standard 19" rack space or can be used table top. Panels can be removed from any of all 6 sides with only 4 screws. Shipped knocked down and includes all hardware, rack mount ears and rubber feet. Finished in textured black powder paint.

Fig. 4

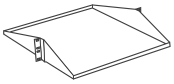

Dual Modem Shelf DNDMS Series- permits front and rear access to modems on 19" relay racks.Formed 16-gauge steel construction. Overall 19.5" deep. Finished in textured black powder paint finish.

Fig. 5

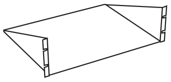

Rack Mount Shelf RASU & RASV Series- 14 gauge steel, 19" relay rack mount shelf available either solid or ventilated. Finished in textured black powder paint.

Fig. 6

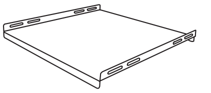

Rail Mount Shelf RFUS & RFVS Series - 14 gauge steel, 19" rack mount shelf available either solid or ventilated. Side slotted for easy front to back adjustment. Finished in textured black powder paint.

Color	Dimensions - Inch (mm) Panel H	Panel W	Panel D	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 1 - RCBS Desk Top Racks (Light Duty)								
Black	3.50 (89)	19.00 (483)	13.00 (330)	HM624-ND	88.12	81.34	70.49	RCBS1900313BK1
	5.25 (133)	19.00 (483)	13.00 (330)	HM625-ND	94.82	87.52	75.85	RCBS1900513BK1
	7.00 (178)	19.00 (483)	13.00 (330)	HM626-ND	102.53	94.65	82.03	RCBS1900713BK1
	8.75 (222)	19.00 (483)	13.00 (330)	HM627-ND	116.17	107.23	92.93	RCBS1900813BK1
	10.50 (267)	19.00 (483)	13.00 (330)	HM628-ND	121.52	112.17	97.21	RCBS1901013BK1
	12.25 (311)	19.00 (483)	13.00 (330)	HM629-ND	132.18	122.02	105.75	RCBS1901213BK1
	14.00 (356)	19.00 (483)	13.00 (330)	HM630-ND	165.57	152.83	132.45	RCBS1901413BK1
	5.25 (133)	19.00 (483)	17.50 (445)	HM631-ND	113.50	104.77	90.80	RCBS1900517BK1
	7.00 (178)	19.00 (483)	17.50 (445)	HM632-ND	132.18	122.02	105.75	RCBS1900717BK1
	8.75 (222)	19.00 (483)	17.50 (445)	HM633-ND	157.55	145.43	126.04	RCBS1900817BK1
	10.50 (267)	19.00 (483)	17.50 (445)	HM634-ND	166.90	154.06	133.52	RCBS1901017BK1
	12.25 (311)	19.00 (483)	17.50 (445)	HM635-ND	182.93	168.86	146.35	RCBS1901217BK1
	14.00 (356)	19.00 (483)	17.50 (445)	HM636-ND	186.92	172.54	149.53	RCBS1901417BK1
Gray	3.50 (89)	19.00 (483)	13.00 (330)	HM637-ND	88.12	81.34	70.49	RCBS1900313CG1
	5.25 (133)	19.00 (483)	13.00 (330)	HM638-ND	94.82	87.52	75.85	RCBS1900513CG1
	7.00 (178)	19.00 (483)	13.00 (330)	HM639-ND	102.53	94.65	82.03	RCBS1900713CG1
	8.75 (222)	19.00 (483)	13.00 (330)	HM640-ND	116.17	107.23	92.93	RCBS1900813CG1
	10.50 (267)	19.00 (483)	13.00 (330)	HM641-ND	121.52	112.17	97.21	RCBS1901013CG1
	12.25 (311)	19.00 (483)	13.00 (330)	HM642-ND	132.18	122.02	105.75	RCBS1901213CG1
	14.00 (356)	19.00 (483)	13.00 (330)	HM643-ND	165.57	152.83	132.45	RCBS1901413CG1
	5.25 (133)	19.00 (483)	17.50 (445)	HM644-ND	113.50	104.77	90.80	RCBS1900517CG1
	7.00 (178)	19.00 (483)	17.50 (445)	HM645-ND	132.18	122.02	105.75	RCBS1900717CG1
	8.75 (222)	19.00 (483)	17.50 (445)	HM646-ND	157.55	145.43	126.04	RCBS1900817CG1
	10.50 (267)	19.00 (483)	17.50 (445)	HM647-ND	166.90	154.06	133.52	RCBS1901017CG1
	12.25 (311)	19.00 (483)	17.50 (445)	HM648-ND	182.93	168.86	146.35	RCBS1901217CG1
	14.00 (356)	19.00 (483)	17.50 (445)	HM649-ND	186.92	172.54	149.53	RCBS1901417CG1
Fig. 2 - RCHS Desk Top (Heavy Duty)								
Black	8.75 (222)	19.00 (483)	17.50 (445)	HM650-ND	170.83	157.69	136.67	RCHS1900817BK1
	10.50 (267)	19.00 (483)	17.50 (445)	HM651-ND	197.57	182.37	158.05	RCHS1901017BK1
	14.00 (356)	19.00 (483)	17.50 (445)	HM652-ND	202.27	186.71	161.81	RCHS1901417BK1
	17.50 (445)	19.00 (483)	17.50 (445)	HM653-ND	210.03	193.88	168.03	RCHS1901717BK1
	22.75 (578)	19.00 (483)	17.50 (445)	HM654-ND	228.70	211.11	182.96	RCHS1902217BK1
	28.00 (711)	19.00 (483)	17.50 (445)	HM655-ND	268.82	248.14	215.05	RCHS1902817BK1
	10.50 (267)	19.00 (483)	24.50 (622)	HM656-ND	266.03	245.57	212.83	RCHS1901024BK1
	14.00 (356)	19.00 (483)	24.50 (622)	HM657-ND	280.02	258.48	224.01	RCHS1901424BK1
	17.50 (445)	19.00 (483)	24.50 (622)	HM658-ND	289.37	267.11	231.49	RCHS1901724BK1
	22.75 (578)	19.00 (483)	24.50 (622)	HM659-ND	298.70	275.72	238.96	RCHS1902224BK1
	28.00 (711)	19.00 (483)	24.50 (622)	HM660-ND	311.12	287.18	248.89	RCHS1902824BK1
Gray	8.75 (222)	19.00 (483)	17.50 (445)	HM661-ND	170.83	157.69	136.67	RCHS1900817CG1
	10.50 (267)	19.00 (483)	17.50 (445)	HM662-ND	197.57	182.37	158.05	RCHS1901017CG1
	14.00 (356)	19.00 (483)	17.50 (445)	HM663-ND	202.27	186.71	161.81	RCHS1901417CG1
	17.50 (445)	19.00 (483)	17.50 (445)	HM664-ND	210.03	193.88	168.03	RCHS1901717CG1
	22.75 (578)	19.00 (483)	17.50 (445)	HM665-ND	228.70	211.11	182.96	RCHS1902217CG1
	28.00 (711)	19.00 (483)	17.50 (445)	HM666-ND	268.82	248.14	215.05	RCHS1902817CG1
	10.50 (267)	19.00 (483)	24.50 (622)	HM667-ND	266.03	245.57	212.83	RCHS1901024CG1
	14.00 (356)	19.00 (483)	24.50 (622)	HM668-ND	280.02	258.48	224.01	RCHS1901424CG1
	17.50 (445)	19.00 (483)	24.00 (622)	HM669-ND	289.37	267.11	231.49	RCHS1901724CG1
	22.75 (578)	19.00 (483)	24.50 (622)	HM670-ND	298.70	275.72	238.96	RCHS1902224CG1
	28.00 (711)	19.00 (483)	24.50 (622)	HM671-ND	311.12	287.18	248.89	RCHS1902824CG1
Blue	8.75 (222)	19.00 (483)	17.50 (445)	HM672-ND	170.83	157.69	136.67	RCHS1900817GF1
	10.50 (267)	19.00 (483)	17.50 (445)	HM673-ND	197.57	182.37	158.05	RCHS1901017GF1
	14.00 (356)	19.00 (483)	17.50 (445)	HM674-ND	202.27	186.71	161.81	RCHS1901417GF1
	17.50 (445)	19.00 (483)	17.50 (445)	HM675-ND	210.03	193.88	168.03	RCHS1901717GF1
	22.75 (578)	19.00 (483)	17.50 (445)	HM676-ND	228.70	211.11	182.96	RCHS1902217GF1
	28.00 (711)	19.00 (483)	17.50 (445)	HM677-ND	268.82	248.14	215.05	RCHS1902817GF1
	10.50 (267)	19.00 (483)	24.50 (622)	HM678-ND	266.03	245.57	212.83	RCHS1901024GF1
	14.00 (356)	19.00 (483)	24.50 (622)	HM679-ND	280.02	258.48	224.01	RCHS1901424GF1
	17.50 (445)	19.00 (483)	24.50 (622)	HM680-ND	289.37	267.11	231.49	RCHS1901724GF1
	22.75 (578)	19.00 (483)	24.50 (622)	HM681-ND	298.70	275.72	238.96	RCHS1902224GF1
	28.00 (711)	19.00 (483)	24.50 (622)	HM682-ND	311.12	287.18	248.89	RCHS1902824GF1

Type	Dimensions - Inch (mm) Panel H	Depth	Panel Units	Digi-Key Part No.	Price Each 1	3	5	Hammond Part No.
Fig. 3 - RMCS & RMCV Rack Mount/Desk Top								
Solid	1.75 (45)	8 (203)	1	HM736-ND	58.37	53.88	46.69	RMCS19018BK1
	1.75 (45)	13 (330)	1	HM737-ND	68.67	63.38	54.93	RMCS190113BK1
	3.50 (89)	8 (203)	2	HM738-ND	65.23	60.22	52.19	RMCS19038BK1
	3.50 (89)	13 (330)	2	HM739-ND	82.40	76.06	65.92	RMCS190313BK1
	5.25 (133)	13 (330)	3	HM740-ND	94.42	87.15	75.53	RMCS190513BK1
	7.00 (178)	13 (330)	4	HM741-ND	108.15	99.83	86.52	RMCS190713BK1
	8.75 (222)	13 (330)	5	HM742-ND	130.47	120.43	104.37	RMCS190813BK1
	10.50 (267)	13 (330)	6	HM743-ND	144.20	133.11	115.36	RMCS191013BK1
	10.50 (267)	15 (381)	6	HM744-ND	142.48	131.52	113.99	RMCS191015BK1
Vented	1.75 (45)	8 (203)	1	HM745-ND	64.20	59.26	51.36	RMCV19018BK1
	1.75 (45)	13 (330)	1	HM746-ND	75.53	69.72	60.43	RMCV190113BK1
	3.50 (89)	8 (203)	2	HM747-ND	71.75	66.23	57.40	RMCV19038BK1
	3.50 (89)	13 (330)	2	HM748-ND	90.63	83.66	72.51	RMCV190313BK1
	5.25 (133)	13 (330)	3	HM749-ND	103.87	95.88	83.09	RMCV190513BK1
	7.00 (178)	13 (330)	4	HM750-ND	118.97	109.82	95.17	RMCV190713BK1
	8.75 (222)	13 (330)	5	HM751-ND	143.52	132.48	114.81	RMCV190813BK1
	10.50 (267)	13 (330)	6	HM752-ND	158.62	146.42	126.89	RMCV191013BK1
	10.50 (267)	15 (381)	6	HM753-ND	156.73	144.68	125.39	RMCV19015BK1

(Continued)

Racks and Accessories *(Cont.)*

Fig. 7

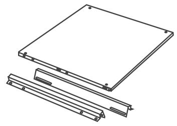

Fixed / Pull-Out Shelf
RASC Series:

18 gauge steel with 14 gauge brackets. Mounts to internal rails. 19” relay rack mount shelf available either solid or ventilated. Brackets are side slotted for easy front to back adjustment. Shelf is finished in smooth white.

Fig. 8

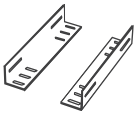

Rail Mount Support Angles
RASA Series:

14 gauge steel, 1.75” x 1.75” to support heavy equipment and reduce load on front panel. Slots allow up/down or front back adjustment. Finished in textured black powder paint.

Fig. 9

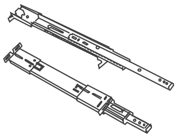

Equipment slides
RSLIDE Series:

19” rack panel mount (to front and back panel rails). Occupies only 1U(1.75”) of panel height. Heavy duty, ball bearing mechanism. Also converts RASC slides to a pull out shelf. Sold in packages of 2.

Fig. 10

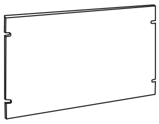

19” Aluminum Rack Panels
PBPA:

.125” thick, 19” rack mount panels. Finished in smooth black or gray/beige (RAL7032) powder paint and paper covered (one side) natural finish.

Dimensions - Inch (mm) Depth	Digi-Key Part No.	Price Each 1	Price Each 3	Price Each 5	Hammond Part No.
Fig. 4 - DNDMS Dual Modem Shelf					
19.5 (495)	HM754-ND	56.40	52.06	45.12	DNDMS19BK1

Type	Dimensions - Inch (mm) Panel H	Dimensions - Inch (mm) Shelf Depth	Panel Units	Digi-Key Part No.	Price Each 1	Price Each 3	Price Each 5	Hammond Part No.
Fig. 5 - RASU & RASV Panel Mount Shelf								
Solid	5.25 (133)	15 (381)	3	HM755-ND	60.60	55.94	48.48	RASU190515BK1
Vented	5.25 (133)	15 (381)	3	HM756-ND	68.43	63.17	54.75	RASV190515BK1

Type	Dimensions - Inch (mm) Panel W	Dimensions - Inch (mm) Shelf Depth	Digi-Key Part No.	Price Each 1	Price Each 3	Price Each 5	Hammond Part No.
Fig. 6 - RFUS & RFVS Rail Shelf							
Solid	19 (483)	18 (457)	HM757-ND	37.63	34.74	30.11	RFUS1918BK1
	19 (483)	21 (533)	HM758-ND	39.88	36.82	31.91	RFUS1921BK1
	19 (483)	26 (660)	HM759-ND	42.71	39.43	34.18	RFUS1926BK1
Vented	19 (483)	18 (457)	HM760-ND	37.63	34.74	30.11	RFVS1918BK1
	19 (483)	21 (533)	HM761-ND	39.88	36.82	31.91	RFVS1921BK1
	19 (483)	26 (660)	HM762-ND	42.71	39.43	34.18	RFVS1926BK1

Dimensions - Inch (mm) Panel W	Dimensions - Inch (mm) Shell Depth	Dimensions - Inch (mm) Bracket Depth	Digi-Key Part No.	Price Each 1	Price Each 3	Price Each 5	Hammond Part No.
Fig. 7 - RASC Fixed/Pull Out Shelf							
19 (483)	11.9 (302)	13.2 (335)	HM763-ND	57.75	53.31	46.20	RASC1912WH2
19 (483)	15.9 (404)	14.9 (378)	HM764-ND	64.87	59.88	51.89	RASC1916WH2
19 (483)	21.9 (556)	20.9 (531)	HM765-ND	73.97	68.28	59.17	RASC1922WH2

Dimensions - Inch (mm) Depth	Digi-Key Part No.	Price Each 1	Price Each 3	Price Each 5	Hammond Part No.
Fig. 8 - RASA Rack Support Angles					
9.97 (253)	HM766-ND	21.70	20.03	17.36	RASA12BK3
14.95 (380)	HM767-ND	23.67	21.85	18.93	RASA16BK3
20.95 (532)	HM768-ND	26.70	24.65	21.36	RASA22BK3

Dimensions - Inch (mm) Side Length	Capacity (Pair)	Digi-Key Part No.	Price Each 1	Price Each 3	Price Each 5	Hammond Part No.
Fig. 9 - RSLIDE Chassis Slide						
12 (305)	120 lbs.	HM769-ND	54.33	50.15	43.47	RSLIDE12
16 (406)	130 lbs.	HM770-ND	56.63	52.28	45.31	RSLIDE16
22 (559)	120 lbs.	HM771-ND	60.07	55.45	48.05	RSLIDE22

Description	Qty. Per Pack	Digi-Key Part No.	Price Each 1	Price Each 3	Price Each 5	Hammond Part No.
19” Rack Mount Hardware						
10-32 x 0.75” Phillips oval head screw/plastic washer	4	HM826-ND	2.60	2.41	2.08	1421A
Nickel plated 10-32 x 0.625” countersunk Phillips head	100	HM827-ND	15.06	13.91	12.06	1421A100B
Black plastic cup washer for countersunk 10-32 screws	100	HM828-ND	27.40	25.30	21.92	1421A100W
Nickel plated cup washer for countersunk 10-32 screws	100	HM829-ND	11.11	10.26	8.90	1421E100W
10-32 clip nuts for all panel rails	25	HM830-ND	11.94	11.02	9.55	1421N25

Color	Dimensions - Inch (mm) Panel H	Panel Units	Digi-Key Part No.	Price Each 1	Price Each 3	Price Each 5	Hammond Part No.
Fig. 10 - PBPA Aluminum 19” Rack Panels							
Black	1.75 (45)	1	HM772-ND	8.67	8.00	6.93	PBPA19001BK2
	3.50 (89)	2	HM773-ND	12.77	11.78	10.21	PBPA19003BK2
	5.25 (133)	3	HM774-ND	18.22	16.82	14.57	PBPA19005BK2
	7.00 (178)	4	HM775-ND	22.77	21.02	18.21	PBPA19007BK2
	8.75 (222)	5	HM776-ND	26.95	24.88	21.56	PBPA19008BK2
	10.50 (267)	6	HM777-ND	30.37	28.03	24.29	PBPA19010BK2
	12.25 (311)	7	HM778-ND	36.42	33.62	29.13	PBPA19012BK2
	14.00 (356)	8	HM779-ND	40.98	37.83	32.79	PBPA19014BK2
	15.75 (400)	9	HM780-ND	44.03	40.65	35.23	PBPA19015BK2
	17.50 (445)	10	HM781-ND	50.13	46.28	40.11	PBPA19017BK2
	19.25 (489)	11	HM782-ND	58.08	53.62	46.47	PBPA19019BK2
	21.00 (533)	12	HM783-ND	62.25	57.46	49.80	PBPA19021BK2
	22.75 (578)	13	HM784-ND	66.05	60.97	52.84	PBPA19022BK2
	24.50 (622)	14	HM785-ND	72.13	66.58	57.71	PBPA19024BK2
	26.25 (667)	15	HM786-ND	77.45	71.49	61.96	PBPA19026BK2
	28.00 (711)	16	HM787-ND	82.75	76.38	66.20	PBPA19028BK2
	29.75 (756)	17	HM788-ND	86.55	79.89	69.24	PBPA19029BK2
	31.00 (787)	18	HM789-ND	88.85	82.02	71.08	PBPA19031BK2
Gray/ Beige	1.75 (45)	1	HM790-ND	8.67	8.00	6.93	PBPA19001CG2
	3.50 (89)	2	HM791-ND	12.77	11.78	10.21	PBPA19003CG2
	5.25 (133)	3	HM792-ND	18.22	16.82	14.57	PBPA19005CG2
	7.00 (178)	4	HM793-ND	22.77	21.02	18.21	PBPA19007CG2
	8.75 (222)	5	HM794-ND	26.95	24.88	21.56	PBPA19008CG2
	10.50 (267)	6	HM795-ND	30.37	28.03	24.29	PBPA19010CG2
	12.25 (311)	7	HM796-ND	36.42	33.62	29.13	PBPA19012CG2
	14.00 (356)	8	HM797-ND	40.98	37.83	32.79	PBPA19014CG2
	15.75 (400)	9	HM798-ND	44.03	40.65	35.23	PBPA19015CG2
	17.50 (445)	10	HM799-ND	50.13	46.28	40.11	PBPA19017CG2
	19.25 (489)	11	HM800-ND	58.08	53.62	46.47	PBPA19019CG2
	21.00 (533)	12	HM801-ND	62.25	57.46	49.80	PBPA19021CG2
	22.75 (578)	13	HM802-ND	66.05	60.97	52.84	PBPA19022CG2
	24.50 (622)	14	HM803-ND	72.13	66.58	57.71	PBPA19024CG2
	26.25 (667)	15	HM804-ND	77.45	71.49	61.96	PBPA19026CG2
	28.00 (711)	16	HM805-ND	82.75	76.38	66.20	PBPA19028CG2
	29.75 (756)	17	HM806-ND	86.55	79.89	69.24	PBPA19029CG2
	31.50 (787)	18	HM807-ND	88.85	82.02	71.08	PBPA19031CG2
Unfinished	1.75 (45)	1	HM808-ND	8.67	8.00	6.93	PBPA19001UNF
	3.50 (89)	2	HM809-ND	12.77	11.78	10.21	PBPA19003UNF
	5.25 (133)	3	HM810-ND	18.22	16.82	14.57	PBPA19005UNF
	7.00 (178)	4	HM811-ND	22.77	21.02	18.21	PBPA19007UNF
	8.75 (222)	5	HM812-ND	26.95	24.88	21.56	PBPA19008UNF
	10.50 (267)	6	HM813-ND	30.37	28.03	24.29	PBPA19010UNF
	12.25 (311)	7	HM814-ND	36.42	33.62	29.13	PBPA19012UNF
	14.00 (356)	8	HM815-ND	40.98	37.83	32.79	PBPA19014UNF
	15.75 (400)	9	HM816-ND	44.03	40.65	35.23	PBPA19015UNF
	17.50 (445)	10	HM817-ND	50.13	46.28	40.11	PBPA19017UNF
	19.25 (489)	11	HM818-ND	58.08	53.62	46.47	PBPA19019UNF
	21.00 (533)	12	HM819-ND	62.25	57.46	49.80	PBPA19021UNF
	22.75 (578)	13	HM820-ND	66.05	60.97	52.84	PBPA19022UNF
	24.50 (622)	14	HM821-ND	72.13	66.58	57.71	PBPA19024UNF
	26.25 (667)	15	HM822-ND	77.45	71.49	61.96	PBPA19026UNF
	28.00 (711)	16	HM823-ND	82.75	76.38	66.20	PBPA19028UNF
	29.75 (756)	17	HM824-ND	86.55	79.89	69.24	PBPA19029UNF
	31.50 (787)	18	HM825-ND	88.85	82.02	71.08	PBPA19031UNF

Plastic and Aluminum Enclosures

Fig. 1 – Plastic Instrument Enclosures - 1591 Series

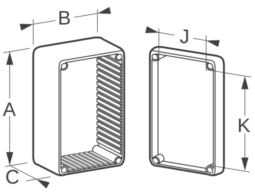

Lid adds 4mm to height of box.
For dimensions A, B and C, see charts below.

Part No.	Dimension Inch (mm) J	K
1591L	1.4 (36)	2.5 (64)
1591A	1.1 (28)	3.1 (79)
1591B	1.6 (41)	3.5 (89)
1591C	1.7 (43)	3.9 (99)
1591D	2.3 (58)	5.0 (127)
1591E	3.5 (89)	6.6 (168)
1591G	2.8 (71)	3.9 (99)
1591H	1.9 (48)	5.6 (142)
1591M	1.3 (33)	2.5 (64)
1591S	2.4 (61)	3.5 (89)
1591T	2.3 (58)	3.9 (99)
1591U	3.9 (99)	3.9 (99)
1591V	3.9 (99)	3.9 (99)

Available in both High Impact Polystyrene (black) and in Flame Retardant ABS (black, blue, translucent blue, or light gray). Economical styrene versions come with four self-tapping #4 x 1/2” (12.7mm) flat head screws countersunk into the lid. ABS versions carry a UL flammability rating of 94V-0 at 1.47mm thickness and a continuous use temperature rating of 60°C. ABS versions come with M3 x .5 x 10mm Phillips head screws, countersunk lid and integral tapped brass bushings. Both versions have interlocking flanged lid and integral card guides to accept .062” (1.57mm) PC cards.

Fig. 2 – Diecast Aluminum Enclosures

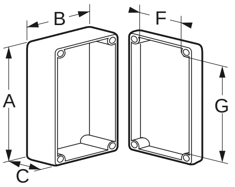

Lid adds 4mm to height of box (except for 1500Z series). For dimensions A, B, and C, see charts below.

Lid Height for 1590 Heavy Duty Watertight Diecast Aluminum Alloy Enclosure	
Part No.	**Dimension Inch (mm)**
1590Z100	0.5 (13)
1590Z110	0.5 (13)
1590Z120	0.6 (15)
1590Z130	0.5 (13)
1590Z135	0.8 (20)
1590Z150	0.8 (20)
1590Z160	0.8 (20)

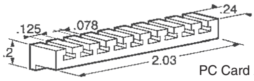

PC Card Adapter

Part No.	Dimension - Inch (mm) F	G
1590A	0.9 (23)	3.0 (76)
1590B	1.7 (43)	3.8 (97)
1590BB	3.1 (77)	4.0 (102)
1590C	3.1 (77)	4.1 (104)
1590D	4.1 (104)	6.8 (173)
1590DD	4.1 (104)	6.8 (173)
1590E	4.1 (104)	6.8 (173)
1590F	6.8 (173)	6.8 (173)
1590H	0.9 (23)	1.4 (36)
1590J	3.1 (79)	5.1 (130)
1590K	4.3 (109)	4.3 (109)
1590LB	1.4 (36)	1.4 (36)
1590P1	2.9 (74)	5.4 (137)
1590S	2.6 (66)	3.7 (94)
1590T	2.5 (64)	4.1 (104)
1590U	4.1 (104)	4.1 (104)
1590V	4.1 (104)	4.1 (104)
1590G	1.3 (33)	3.3 (84)
1590N1	1.9 (48)	4.1(104)
1590R1	4.0 (102)	6.9 (175)

1590 Series: Drilled and tapped with lid and 6-32 x 1/2” (12.7mm) countersunk Phillips screws. Choice of standard, flanged or watertight lid. Interlocking flanged lid provides complete RF shielding. Watertight lid has a clear bead of rubberlike silicon around the perimeter to provide protection against dust and water. Designed to meet IP54.

1590Z Series: Watertight, heavy duty - thick wall. Two piece “tongue and groove” construction with a neoprene gasket provides protection against dust and water. Four recessed stainless steel machine screws and individual neoprene “O” rings secure lid. Optional M4 x 6mm copper grounding screws with designated enclosures. Designed to meet IP65.

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hammond Part No.
Fig. 1 - 1591 Economy Styrene Plastic Enclosures								
Black	3.3 (85)	2.2 (56)	1.4 (35)	HM100-ND	3.42	2.85	2.63	1591LSBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM361-ND	2.88	2.40	2.22	1591MSBK
	3.9 (100)	2.0 (50)	0.8 (21)	HM102-ND	3.18	2.65	2.45	1591ASBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM109-ND	4.64	3.87	3.57	1591SSBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM103-ND	3.44	2.87	2.65	1591BSBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM104-ND	3.64	3.03	2.80	1591CSBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM110-ND	5.10	4.25	3.92	1591TSBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM111-ND	5.48	4.57	4.22	1591USBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM112-ND	6.56	5.47	5.05	1591VSBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM107-ND	4.32	3.60	3.32	1591GSBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM105-ND	5.42	4.52	4.17	1591DSBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM108-ND	4.30	3.58	3.31	1591HSBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM106-ND	6.48	5.40	4.98	1591ESBK
Fig. 1 - 1591 ABS Flame Retardant Plastic Enclosures								
Black	3.3 (85)	2.2 (56)	1.4 (35)	HM113-ND	5.46	4.55	4.20	1591LBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM362-ND	4.32	3.60	3.32	1591MBK
	3.3 (85)	2.2 (56)	1.4 (35)	HM847-ND	5.74	4.78	4.42	1591LFLBK
	3.3 (85)	2.2 (56)	0.8 (21)	HM848-ND	4.54	3.78	3.49	1591MFLBK
	3.9 (100)	2.0 (50)	0.8 (21)	HM114-ND	5.08	4.23	3.91	1591ABK
	3.9 (100)	2.0 (50)	0.8 (21)	HM858-ND	5.34	4.45	4.11	1591AFLBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM849-ND	7.76	6.47	5.97	1591SFLBK
	4.3 (110)	3.2 (82)	1.6 (41)	HM121-ND	7.40	6.17	5.69	1591SBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM850-ND	5.78	4.82	4.45	1591BFLBK
	4.4 (112)	2.4 (62)	1.1 (27)	HM115-ND	5.50	4.58	4.23	1591BBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM854-ND	11.00	9.17	8.46	1591VFLBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM853-ND	9.20	7.67	7.08	1591UFLBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM851-ND	6.14	5.12	4.72	1591CFLBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM852-ND	8.58	7.15	6.60	1591TFLBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM855-ND	7.26	6.05	5.58	1591GFLBK
	4.7 (120)	2.6 (65)	1.4 (36)	HM116-ND	5.86	4.88	4.51	1591CBK
	4.7 (120)	3.2 (80)	2.2 (56)	HM122-ND	8.18	6.82	6.29	1591TBK
	4.7 (120)	4.7 (120)	2.2 (56)	HM123-ND	8.76	7.30	6.74	1591UBK
	4.7 (120)	4.7 (120)	3.5 (90)	HM124-ND	10.48	8.73	8.06	1591VBK
	4.8 (121)	3.7 (94)	1.2 (30)	HM119-ND	6.92	5.77	5.32	1591GBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM856-ND	9.08	7.57	6.98	1591DFLBK
	5.9 (150)	3.2 (80)	1.8 (46)	HM117-ND	8.66	7.22	6.66	1591DBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM120-ND	6.88	5.73	5.29	1591HBK
	6.5 (165)	2.8 (71)	1.0 (25)	HM859-ND	7.22	6.02	5.55	1591HFLBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM857-ND	10.31	8.83	8.15	1591EFLBK
	7.5 (191)	4.3 (110)	2.2 (56)	HM118-ND	10.38	8.65	7.98	1591EBK
Blue	3.3 (85)	2.2 (56)	1.4 (35)	HM125-ND	5.46	4.78	4.42	1591LBU
	3.3 (85)	2.2 (56)	0.8 (21)	HM363-ND	4.32	3.60	3.32	1591MBU
	3.9 (100)	2.0 (50)	0.8 (21)	HM126-ND	5.08	4.23	3.91	1591ABU
	4.3 (110)	3.2 (82)	1.6 (41)	HM134-ND	7.40	6.17	5.69	1591SBU
	4.4 (112)	2.4 (62)	1.1 (27)	HM127-ND	5.50	4.58	4.23	1591BBU
	4.7 (120)	2.6 (65)	1.4 (36)	HM128-ND	5.86	4.88	4.51	1591CBU
	4.7 (120)	3.2 (80)	2.2 (56)	HM135-ND	8.18	6.82	6.29	1591TBU
	4.7 (120)	4.7 (120)	2.2 (56)	HM136-ND	8.76	7.30	6.74	1591UBU
	4.7 (120)	4.7 (120)	3.5 (90)	HM137-ND	10.48	8.73	8.06	1591VBU
	4.8 (121)	3.7 (94)	1.2 (30)	HM132-ND	6.92	5.77	5.32	1591GBU
	5.9 (150)	3.2 (80)	1.8 (46)	HM129-ND	8.66	7.22	6.66	1591DBU
	6.5 (165)	2.8 (71)	1.0 (25)	HM133-ND	6.88	5.73	5.29	1591HBU
	7.5 (191)	4.3 (110)	2.2 (56)	HM131-ND	10.38	8.65	7.98	1591EBU
Light Gray	3.3 (85)	2.2 (56)	1.4 (35)	HM138-ND	5.46	4.55	4.20	1591LGY
	3.3 (85)	2.2 (56)	0.8 (21)	HM364-ND	4.32	3.60	3.32	1591MGY
	3.9 (100)	2.0 (50)	0.8 (21)	HM139-ND	5.08	4.23	3.91	1591AGY
	4.3 (110)	3.2 (82)	1.6 (41)	HM146-ND	7.40	6.17	5.69	1591SGY
	4.4 (112)	2.4 (62)	1.1 (27)	HM140-ND	5.50	4.58	4.23	1591BGY
	4.7 (120)	2.6 (65)	1.4 (36)	HM141-ND	5.86	4.88	4.51	1591CGY
	4.7 (120)	3.2 (80)	2.2 (56)	HM147-ND	8.18	6.82	6.29	1591TGY
	4.7 (120)	4.7 (120)	2.2 (56)	HM148-ND	8.76	7.30	6.74	1591UGY
	4.7 (120)	4.7 (120)	3.5 (90)	HM149-ND	10.48	8.73	8.06	1591VGY
	4.8 (121)	3.7 (94)	1.2 (30)	HM144-ND	6.92	5.77	5.32	1591GGY
	5.9 (150)	3.2 (80)	1.8 (46)	HM142-ND	8.66	7.22	6.66	1591DGY
	6.5 (165)	2.8 (71)	1.0 (25)	HM145-ND	6.88	5.73	5.29	1591HGY
	7.5 (191)	4.3 (110)	2.2 (56)	HM143-ND	10.38	8.65	7.98	1591EGY

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hammond Part No.
Fig. 1 - 1591 Translucent Polycarbonate Enclosures								
Ice Blue	3.9 (100)	2.0 (50)	0.8 (21)	HM878-ND	5.58	4.65	4.30	1591ATBU
	4.4 (112)	2.4 (62)	1.1 (27)	HM876-ND	6.06	5.05	4.67	1591BTBU
	4.7 (120)	2.6 (65)	1.4 (36)	HM877-ND	6.44	5.37	4.96	1591CTBU
Fig. 2 - PC Card Adapter								
PC Card Adapter for 1591 Boxes				HM204-ND	2.25	1.91	1.77	1591Z6
Fig. 2 - 1590 Diecast Aluminum Alloy Enclosures								
Un-painted	2.0 (51)	2.0 (51)	1.1 (28)	HM157-ND	7.44	6.20	5.72	1590LB
	2.1 (53)	1.5 (38)	1.1 (28)	HM365-ND	6.40	5.33	4.92	1590H
	3.6 (91)	1.5 (38)	1.1 (28)	HM150-ND	7.22	6.02	5.56	1590A
	3.9 (99)	2.0 (51)	0.8 (20)	HM841-ND	7.72	6.43	5.94	1590G
	4.4 (112)	3.2 (81)	1.6 (41)	HM158-ND	10.88	9.07	8.37	1590S
	4.4 (112)	2.3 (58)	1.1 (28)	HM151-ND	8.24	6.87	6.34	1590B
	4.7 (119)	3.7 (94)	1.2 (30)	HM152-ND	10.72	8.93	8.25	1590BB
	4.7 (119)	4.7 (119)	2.2 (56)	HM160-ND	16.48	13.73	12.68	1590U
	4.7 (119)	4.7 (119)	3.5 (89)	HM161-ND	22.66	18.88	17.43	1590V
	4.7 (119)	3.7 (94)	2.1 (53)	HM153-ND	12.06	10.05	9.28	1590C
	4.7 (119)	3.1 (79)	2.2 (56)	HM159-ND	11.22	9.35	8.63	1590T
	4.8 (122)	2.6 (66)	1.4 (36)	HM842-ND	11.24	9.37	8.65	1590N1
	4.9 (124)	4.9 (124)	3.0 (76)	HM367-ND	20.60	17.17	15.85	1590K
	5.7 (145)	3.7 (94)	1.8 (45)	HM366-ND	12.66	10.55	9.74	1590J
	6.0 (152)	3.2 (81)	1.8 (45)	HM348-ND	14.72	12.27	11.32	1590P1
	7.4 (188)	4.7 (119)	2.1 (53)	HM154-ND	19.74	16.45	15.18	1590D
	7.4 (188)	4.7 (119)	3.1 (79)	HM155-ND	21.12	17.61	16.25	1590E
	7.4 (188)	7.4 (188)	2.5 (64)	HM156-ND	28.38	23.65	21.83	1590F
	7.4 (188)	4.7 (119)	1.3 (33)	HM347-ND	17.36	14.47	13.65	1590DD
	7.6 (193)	4.4 (112)	2.2 (56)	HM843-ND	23.62	19.68	18.17	1590R1
Fig. 2 - 1590 Flanged Lid Diecast Aluminum Alloy Enclosures								
Un-painted	2.0 (51)	2.0 (51)	1.1 (28)	HM570-ND	8.18	6.82	6.29	1590LBFL
	3.7 (94)	1.5 (38)	1.1 (28)	HM571-ND	7.94	6.62	6.11	1590AFL
	3.9 (99)	2.0 (51)	0.8 (20)	HM879-ND	8.50	7.08	6.54	1590GFL
	4.4 (112)	3.2 (81)	1.6 (41)	HM575-ND	11.96	9.97	9.20	1590SFL
	4.4 (112)	2.3 (58)	1.1 (28)	HM572-ND	9.06	7.55	6.97	1590BFL
	4.7 (119)	3.7 (94)	1.2 (30)	HM573-ND	11.78	9.82	9.06	1590BBFL
	4.7 (119)	4.7 (119)	2.2 (56)	HM580-ND	18.12	15.10	13.94	1590UFL
	4.7 (119)	4.7 (119)	3.5 (89)	HM583-ND	24.92	20.77	19.17	1590VFL
	4.7 (119)	3.7 (94)	2.1 (53)	HM578-ND	13.26	11.05	10.20	1590CFL
	4.7 (119)	3.1 (79)	2.2 (56)	HM579-ND	12.34	10.28	9.49	1590TFL
	4.8 (122)	2.6 (66)	1.4 (36)	HM881-ND	11.44	9.53	8.80	1590N1FL
	6.0 (152)	3.2 (81)	1.8 (45)	HM576-ND	16.20	13.50	12.46	1590P1FL
	7.4 (188)	4.7 (119)	2.1 (53)	HM577-ND	21.70	18.08	16.69	1590DFL
	7.4 (188)	7.4 (188)	2.5 (64)	HM581-ND	31.22	26.02	24.02	1590FFL
	7.4 (188)	4.7 (119)	3.1 (79)	HM582-ND	23.22	19.35	17.86	1590EFL
	7.4 (188)	4.7 (119)	1.3 (33)	HM574-ND	19.10	15.92	14.69	1590DDFL
	7.6 (193)	4.4 (112)	2.2 (56)	HM880-ND	26.00	21.67	20.00	1590R1FL
Fig. 2 - 1590 Watertight Diecast Aluminum Alloy Enclosures								
Un-painted	2.0 (51)	2.0 (51)	1.1 (28)	HM584-ND	8.14	6.78	6.26	1590WLB
	2.1 (53)	1.5 (38)	1.1 (28)	HM835-ND	7.14	5.95	5.49	1590WH
	3.6 (91)	1.5 (38)	1.1 (28)	HM585-ND	8.32	6.93	6.40	1590WA
	3.9 (99)	2.0 (51)	0.8 (20)	HM837-ND	7.72	6.43	5.94	1590WG
	4.4 (112)	3.2 (81)	1.6 (41)	HM589-ND	12.04	10.03	9.26	1590WS
	4.4 (112)	2.3 (58)	1.1 (28)	HM586-ND	9.44	7.87	7.26	1590WB
	4.7 (119)	3.7 (94)	1.2 (30)	HM587-ND	11.94	9.95	9.18	1590WBB
	4.7 (119)	4.7 (119)	2.2 (56)	HM594-ND	17.92	14.93	13.78	1590WU
	4.7 (119)	4.7 (119)	3.5 (89)	HM597-ND	24.08	20.07	18.52	1590WV
	4.7 (119)	3.7 (94)	2.1 (53)	HM592-ND	13.20	11.00	10.15	1590WC
	4.7 (119)	3.1 (79)	2.2 (56)	HM593-ND	12.38	10.32	9.52	1590WT
	4.8 (122)	2.6 (66)	1.4 (36)	HM840-ND	13.28	11.07	10.22	1590WN1
	4.9 (124)	4.9 (124)	3.0 (76)	HM838-ND	22.06	18.38	16.97	1590WK
	5.7 (145)	3.7 (94)	1.8 (45)	HM839-ND	13.86	11.55	10.66	1590WJ
	6.0 (152)	3.2 (81)	1.8 (45)	HM590-ND	16.22	13.52	12.48	1590WP1
	7.4 (188)	4.7 (119)	2.1 (53)	HM591-ND	21.36	17.80	16.43	1590WD
	7.4 (188)	7.4 (188)	2.5 (64)	HM595-ND	30.58	25.48	23.52	1590WF
	7.4 (188)	4.7 (119)	3.1 (79)	HM596-ND	22.74	18.95	17.49	1590WE
	7.4 (188)	4.7 (119)	1.3 (33)	HM588-ND	19.02	15.85	14.63	1590WDD
	7.6 (193)	4.4 (112)	2.2 (56)	HM833-ND	26.00	21.67	20.00	1590WR1

* With mounting shelf ‡ With lid ground screw
† Dimension “C” does not include lid height § Battery Compartment

(Continued)

Plastic and Aluminum Enclosures *(Cont.)*

Fig. 3 – Plastic Instrument Cases -1598 Series

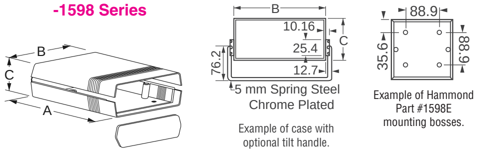

5 mm Spring Steel Chrome Plated

Example of case with optional tilt handle.

Example of Hammond Part #1598E mounting bosses.

Available in both Flame Retardant ABS (black or light gray) and High Impact Polystyrene (light gray). Both versions have a matte textured finish, .064” (1.63mm) thick brushed aluminum front and rear panels, integral horizontal PC board mounts on Eurocard centers, front and rear vertical PC board slots. Both versions accept optional tilt handles. ABS versions carry a UL flammability rating of 94V-0 and are secured with M3 x .5 x 10mm Phillips head screws into integral brass bushings. Styrene versions are secured with #4 x 1/2” (12.7mm) self-tapping screws.

Fig. 4 – Plastic Hand Held Cases - 1599 Series

Available in both High Impact Polystyrene (light gray) and Flame Retardant ABS (black or light gray). Both versions have these features: attractively styled and ergonomically designed for use as a hand held enclosure; ends sized for infra-red applications; extra deep top and ultra shallow base; two piece lap joint construction; recessed top area ideal for membrane display; internal universal battery compartment; user friendly 10mm x 10mm reference grid is molded into the top interior; six PC board mounting bosses molded into both the top and the base; vertical mounting slots molded into the top for PC boards or optional dividers. ABS versions carry a UL flammability rating of 94V-0 and are secured with integral tapped brass bushings. Styrene versions are secured with self-tapping screws.

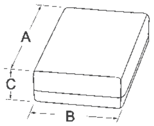

Fig. 5 – Plastic Hand Held Instrument Boxes -1593 Series

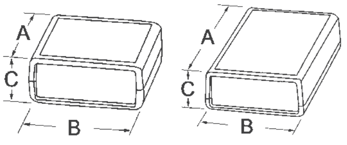

1593K 1593Q

Electronic instrument enclosures. Two-piece lap joint construction. ABS plastic. Unit is secured with self-tapping screws.

Fig. 6 – Miniature General Purpose Enclosures - 1551 Series

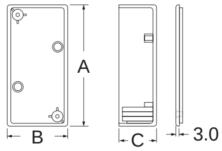

Two piece lap joint construction. Choice of black or gray ABS plastic. Designed to meet IP54.

Fig. 7 – Plastic Instrument Boxes - 1594 Series

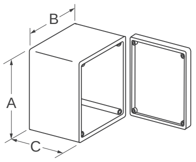

Cover adds 12mm to height

Available in both High Impact Polystyrene (light gray) and Flame Retardant ABS (black or light gray). Both versions feature lap joint construction, interlocking flange on lid, and a rugged and robust design.

Fig. 8 – Plastic Instrument Consoles - 1595 Series

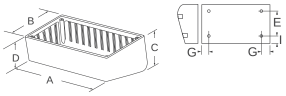

Part No.	Dimensions D	E	G	I
1595C	39.6	62.2	21.8	10.2
1595E	51.6	85.1	21.8	10.2

Aluminum lid and rubber feet included.

For dimensions A, B and C, see charts below.

Available in Flame Retardant ABS (black or light gray) which meets UL 94V-0 flammability tests. Unique sloped front design comes with 0.04” (1.02mm) thick brushed aluminum front panel, four self-adhesive rubber feet, and four M3 x .5 x 10mm machine screws threaded into integral brass bushings. Integral card guides accept .062” (1.57mm) PC boards. Base has four internal 0.20” (5.08mm) stand-off bosses.

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hammond Part No.
Fig. 2 - 1590 Heavy Duty Watertight Diecast Aluminum Alloy Enclosures								
Un-painted	2.0 (50)	1.8 (46)	1.0 (25)	HM834-ND	8.44	7.14	6.63	1590Z060
	2.5 (64)	2.3 (58)	1.0 (25)	HM836-ND	11.42	9.66	8.97	1590Z061
	3.0 (76)	3.1 (79)	1.6 (41)†	HM598-ND*	16.67	14.11	13.10	1590Z100
	2.9 (75)	3.1 (80)	1.6 (41)†	HM599-ND	16.67	14.11	13.10	1590Z110
	3.9 (99)	2.5 (64)	1.0 (25)	HM831-ND	13.49	11.42	10.60	1590Z062
	4.8 (121)	4.7 (120)	2.4 (62)	HM845-ND	36.71	31.06	28.84	1590Z119
	4.9 (124)	3.2 (81)	1.7 (43)†	HM600-ND*	20.22	17.11	15.89	1590Z120
	5.9 (150)	2.5 (64)	1.0 (25)	HM832-ND	19.67	16.65	15.46	1590Z063
	6.3 (160)	6.3 (160)	2.8 (71)†	HM604-ND*‡	48.69	41.20	38.27	1590Z160
	6.9 (175)	3.2 (81)	1.6 (41)†	HM601-ND	23.96	20.28	18.83	1590Z130
	6.9 (175)	3.2 (81)	1.6 (41)†	HM602-ND‡	24.35	20.60	19.13	1590Z135
	8.7 (221)	4.8 (120)	2.4 (61)†	HM603-ND*	44.02	37.25	34.59	1590Z150
	7.9 (201)	9.1 (231)	3.6 (91)	HM846-ND	106.75	90.32	83.88	1590Z231
	10.2 (259)	6.3 (160)	2.8 (71)	HM844-ND	66.11	55.94	51.94	1590Z162
Fig. 3 - 1598 ABS Flame Retardant 2-Piece Plastic Instrument Case								
Black	5.3 (135)	5.3 (135)	2.0 (50)	HM163-ND	11.00	9.17	8.46	1598BBK
	6.2 (157)	3.7 (94)	1.4 (36)	HM162-ND	10.02	8.35	7.71	1598ABK
	6.3 (160)	6.3 (160)	3.4 (86)	HM166-ND	16.52	13.77	12.71	1598EBK
	7.1 (180)	6.1 (155)	1.4 (36)	HM368-ND	11.16	9.30	8.58	1598BBBK
	7.1 (180)	6.1 (155)	2.0 (50)	HM164-ND	13.76	11.47	10.58	1598CBK
	7.1 (180)	8.1 (206)	2.5 (64)	HM165-ND	16.80	14.00	12.92	1598DBK
	9.8 (249)	6.3 (160)	1.6 (41)	HM167-ND	17.64	14.70	13.57	1598FBK
	9.8 (249)	6.3 (160)	3.0 (76)	HM168-ND	20.68	17.23	15.91	1598GBK
	11.0 (279)	7.9 (201)	1.6 (41)	HM169-ND	21.70	18.08	16.69	1598HBK
	11.0 (279)	7.9 (201)	3.0 (76)	HM170-ND	26.90	22.42	20.69	1598JBK
Light Gray	5.3 (135)	5.3 (135)	2.0 (50)	HM172-ND	11.00	9.17	8.46	1598BGY
	6.2 (157)	3.7 (94)	1.4 (36)	HM171-ND	10.02	8.35	7.71	1598AGY
	7.1 (180)	6.1 (155)	1.4 (36)	HM369-ND	11.16	9.30	8.58	1598BBGY
	7.1 (180)	6.1 (155)	2.0 (50)	HM173-ND	13.76	11.47	10.58	1598CGY
	7.1 (180)	8.1 (206)	2.5 (64)	HM174-ND	16.80	14.00	12.92	1598DGY
	6.3 (160)	6.3 (160)	3.4 (86)	HM175-ND	16.52	13.77	12.71	1598EGY
	9.8 (249)	6.3 (160)	1.6 (41)	HM176-ND	17.64	14.70	13.57	1598FGY
	9.8 (249)	6.3 (160)	3.0 (76)	HM177-ND	20.68	17.23	15.91	1598GGY
	11.0 (279)	7.9 (201)	1.6 (41)	HM178-ND	21.70	18.08	16.69	1598HGY
	11.0 (279)	7.9 (201)	3.0 (76)	HM179-ND	26.90	22.42	20.69	1598JGY
Fig. 3 - 1598 Styrene 2-Piece Plastic Instrument Cases								
Light Gray	5.3 (135)	5.3 (135)	2.0 (50)	HM246-ND	8.24	6.87	6.34	1598BSGY
	6.2 (157)	3.7 (94)	1.4 (36)	HM245-ND	7.36	6.13	5.66	1598ASGY
	6.3 (160)	6.3 (160)	3.4 (86)	HM249-ND	11.52	9.60	8.86	1598ESGY
	7.1 (180)	6.1 (155)	1.4 (36)	HM370-ND	8.90	7.42	6.85	1598BBSGY
	7.1 (180)	6.1 (155)	2.0 (50)	HM247-ND	9.66	8.05	7.43	1598CSGY
	7.1 (180)	8.1 (206)	2.5 (64)	HM248-ND	11.58	9.65	8.91	1598DSGY
	9.8 (249)	6.3 (160)	1.6 (41)	HM250-ND	11.28	9.40	8.68	1598FSGY
	9.8 (249)	6.3 (160)	3.0 (76)	HM251-ND	13.22	11.02	10.17	1598GSGY
	11.0 (279)	7.9 (201)	1.6 (41)	HM252-ND	13.20	11.00	10.15	1598HSGY
	11.0 (279)	7.9 (201)	3.0 (76)	HM253-ND	15.38	12.82	11.83	1598JSGY
Chrome Plated Tilt Handles for Instrument Cases								
Handle for 1598C, E, F, G Series				HM255-ND	11.48	9.57	8.83	1598TH1
Handle for 1598D, H, J Series				HM256-ND	11.48	9.57	8.83	1598TH2
Fig. 4 - 1599 Styrene Hand Held Cases								
Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM209-ND	5.40	4.50	4.15	1599BSGY
	6.7 (170)	3.4 (86)	1.3 (33)	HM210-ND	6.08	5.07	4.68	1599ESGY
	8.7 (221)	4.3 (109)	1.7 (43)	HM211-ND	6.98	5.82	5.37	1599HSGY
	8.7 (221)	5.5 (140)	1.2 (30)	HM873-ND	9.48	7.90	7.29	1599KSGY
Fig. 4 - 1599 ABS Hand Held Cases								
Black	5.1 (130)	2.6 (66)	1.0 (25)	HM212-ND	7.10	5.92	5.46	1599BBK
	6.7 (170)	3.4 (86)	1.3 (33)	HM213-ND	8.64	7.20	6.65	1599EBK
	8.7 (221)	4.3 (109)	1.7 (43)	HM214-ND	10.58	8.82	8.14	1599HBK
Light Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM215-ND	7.10	5.92	5.46	1599BGY
	6.7 (170)	3.4 (86)	1.3 (33)	HM216-ND	8.64	7.20	6.65	1599EGY
	8.7 (221)	4.3 (109)	1.7 (43)	HM217-ND	10.58	8.82	8.14	1599HGY
Black	8.7 (221)	5.5 (140)	1.6 (41)	HM865-ND	11.34	9.45	8.73	1599KBK
Gray	8.7 (221)	5.5 (140)	1.6 (41)	HM866-ND	11.34	9.45	8.73	1599KGY

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hammond Part No.
Fig. 4 - 1599 ABS Hand Held Case with Battery Box								
Black	5.1 (130)	2.6 (66)	1.0 (25)	HM351-ND	8.96	7.47	6.89	1599BBKBAT
	6.7 (170)	3.4 (86)	1.3 (33)	HM353-ND	10.66	8.88	8.20	1599EBKBAT
	8.7 (221)	4.3 (109)	1.7 (43)	HM863-ND	14.42	12.02	11.09	1599HBKBAT
	8.7 (221)	5.5 (140)	1.6 (41)	HM864-ND	15.66	13.05	12.05	1599KBKBAT
Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM352-ND	9.14	7.62	7.03	1599BGYBAT
	6.7 (170)	3.4 (86)	1.3 (33)	HM354-ND	10.66	8.88	8.20	1599EGYBAT
	8.7 (221)	4.3 (109)	1.7 (43)	HM871-ND	14.42	12.02	11.09	1599HGYBAT
	8.7 (221)	5.5 (140)	1.6 (41)	HM872-ND	15.66	13.05	12.05	1599KGYBAT
Fig. 4 - 1599 Styrene Plastic Case with Battery Box								
Gray	5.1 (130)	2.6 (66)	1.0 (25)	HM349-ND	6.84	5.70	5.26	1599BSGYBAT
	6.7 (170)	3.4 (86)	1.3 (34)	HM350-ND	7.92	6.60	6.09	1599ESGYBAT
	8.7 (221)	4.3 (109)	1.7 (43)	HM875-ND	11.94	9.95	9.18	1599HSGYBAT
	8.7 (221)	5.5 (140)	1.6 (41)	HM874-ND	12.88	10.73	9.91	1599KSGYBAT
Fig. 5 - 1593 ABS Plastic Hand Held Boxes								
Black	2.6 (66)	2.6 (66)	1.1 (28)	HM355-ND	2.16	1.80	1.66	1593KBK
	2.6 (66)	2.6 (66)	1.1 (28)	HM860-ND	2.16	1.80	1.66	1593JBK
	3.6 (92)	2.6 (66)	1.1 (28)	HM357-ND §	3.10	2.59	2.39	1593PBK
	3.6 (92)	2.6 (66)	0.8 (20)	HM371-ND §	2.88	2.40	2.22	1593SBK
	4.4 (112)	2.6 (66)	1.1 (28)	HM359-ND §	3.48	2.90	2.68	1593QBK
	4.4 (112)	2.6 (66)	0.8 (20)	HM372-ND §	3.28	2.73	2.52	1593TBK
	4.5 (114)	1.4 (36)	1.0 (25)	HM861-ND	3.32	2.77	2.55	1593DBK
	5.5 (140)	2.6 (66)	1.1 (28)	HM862-ND §	4.02	3.35	3.09	1593YBK
Gray	2.6 (66)	2.6 (66)	1.1 (28)	HM356-ND	2.16	1.80	1.66	1593KGY
	2.6 (66)	2.6 (66)	1.1 (28)	HM867-ND	2.16	1.80	1.66	1593JGY
	3.6 (92)	2.6 (66)	1.1 (28)	HM358-ND §	3.10	2.59	2.39	1593PGY
	3.6 (92)	2.6 (66)	0.8 (20)	HM373-ND §	2.88	2.40	2.22	1593SGY
	4.4 (112)	2.6 (66)	1.1 (28)	HM360-ND §	3.48	2.90	2.68	1593QGY
	4.4 (112)	2.6 (66)	0.8 (20)	HM374-ND §	3.28	2.73	2.52	1593TGY
	4.5 (114)	1.4 (36)	1.0 (25)	HM868-ND	3.32	2.77	2.55	1593DGY
	5.5 (140)	2.6 (66)	1.1 (28)	HM870-ND	4.02	3.35	3.09	1593XGY
	5.5 (140)	2.6 (66)	1.1 (28)	HM869-ND §	4.02	3.35	3.09	1593YGY
Infrared Replacement Panels for 1593 Series								
Replacement Panel for 1593D Series				HM887-ND	.40	.34	.31	1593DIR10
Replacement Panel for 1593J, K, P, Q, Y, X Series				HM888-ND	.46	.39	.36	1593PIR10
Replacement Panel for 1593S, T Series				HM889-ND	.28	.24	.22	1593SIR10
Fig. 6 - 1551 ABS Plastic General Purpose Boxes								
Black	2.0 (50)	1.4 (35)	0.7 (18)	HM375-ND	1.60	1.34	1.23	1551GBK
	2.4 (60)	1.4 (35)	0.7 (18)	HM376-ND	1.76	1.47	1.36	1551HBK
	3.2 (80)	1.6 (40)	0.7 (18)	HM377-ND	1.24	1.03	.95	1551KBK
Light Gray	2.0 (50)	1.4 (35)	0.7 (18)	HM378-ND	1.60	1.34	1.23	1551GGY
	2.4 (60)	1.4 (35)	0.7 (18)	HM379-ND	1.76	1.47	1.36	1551HGY
	3.2 (80)	1.6 (40)	0.7 (18)	HM380-ND	1.84	1.53	1.41	1551KGY
Fig. 7 - 1594 Styrene Plastic Instrument Boxes								
Light Gray	2.2 (56)	2.2 (56)	1.1 (28)	HM221-ND	3.72	3.10	2.86	1594ASGY
	3.2 (81)	2.2 (56)	1.1 (28)	HM222-ND	3.92	3.27	3.02	1594BSGY
	4.1 (105)	2.6 (66)	1.3 (33)	HM223-ND	4.28	3.57	3.29	1594CSGY
	5.2 (131)	2.6 (66)	1.7 (43)	HM224-ND	4.58	3.82	3.52	1594DSGY
	6.6 (167)	4.2 (107)	2.1 (53)	HM225-ND	5.96	4.97	4.58	1594ESGY
Fig. 7 - 1594 ABS Plastic Instrument Boxes								
Black	2.2 (56)	2.2 (56)	1.1 (28)	HM226-ND	6.48	5.40	4.98	1594ABK
	3.2 (81)	2.2 (56)	1.1 (28)	HM227-ND	6.78	5.65	5.22	1594BBK
	4.1 (105)	2.6 (66)	1.3 (33)	HM228-ND	8.34	6.98	6.42	1594CBK
	5.2 (131)	2.6 (66)	1.7 (43)	HM229-ND	9.92	8.27	7.63	1594DBK
	6.6 (167)	4.2 (107)	2.1 (53)	HM230-ND	12.22	10.18	9.40	1594EBK
Light Gray	2.2 (56)	2.2 (56)	1.1 (28)	HM231-ND	6.48	5.40	4.98	1594AGY
	3.2 (81)	2.2 (56)	1.1 (28)	HM232-ND	6.78	5.65	5.22	1594BGY
	4.1 (105)	2.6 (66)	1.3 (33)	HM233-ND	8.34	6.95	6.42	1594CGY
	5.2 (131)	2.6 (66)	1.7 (43)	HM234-ND	9.92	8.27	7.63	1594DGY
	6.6 (167)	4.2 (107)	2.1 (53)	HM235-ND	12.22	10.18	9.40	1594EGY

* With mounting shelf ‡ With lid ground screw
† Dimension “C” does not include lid height § Battery Compartment

(Continued)

Plastic and Aluminum Enclosures *(Cont.)*

Fig. 9 – Aluminum Utility Cases - 1411 Series

.040" (1.02mm) thick aluminum. Four self-tapping screws included. Choice of unpainted or ASA 61 gray baked enamel finish (outside only).

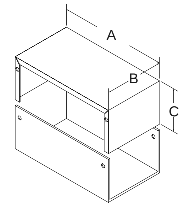

Fig. 10 – Heavy Duty Chassis Case and Cover Plates - 1444 Series

Cover No.	Use with Digi-Key #	Use with Hammond #
HM275-ND	HM257-ND	1444-6
HM276-ND	HM258-ND	1444-8
HM277-ND	HM259-ND	1444-9
	HM260-ND	1444-10
HM278-ND	HM261-ND	1444-12
HM279-ND	HM262-ND	1444-14
HM280-ND	HM263-ND	1444-15
	HM264-ND	1444-16
HM281-ND	HM265-ND	1444-18

Cover No.	Use with Digi-Key #	Use with Hammond #
HM282-ND	HM266-ND	1444-20
HM283-ND	HM267-ND	1444-22
	HM268-ND	1444-24
HM284-ND	HM269-ND	1444-26
	HM270-ND	1444-28
HM285-ND	HM271-ND	1444-29
HM286-ND	HM272-ND	1444-30
	HM273-ND	1444-32
	HM274-ND	1444-33

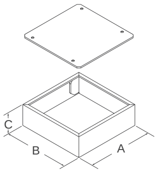

Spot welded heavy duty construction chassis. Cover holes are punched with 4 holes (hardware not provided). Unpainted finish.

Cover sold separately.

Fig. 11 – Metal Utility Cases - 1415 Series

Sizes A to E are 20 gauge 0.036" (.91mm) thick steel. Sizes F to J are 18 gauge 0.048" (1.22mm) thick steel. Self-tapping screws included. ASA 61 gray baked enamel finish (outside only). Models A to D have 4 mounting holes. Models E to J have 6 mounting holes.

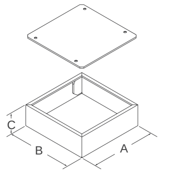

Fig. 12 – Ventilated Low Profile Instrument Cases - 1426 Series

20 gauge steel enclosure finished in satin off-white. 0.064" (1.63mm) thick aluminum panels front and rear. Front panel is satin black, rear panel matches case color.

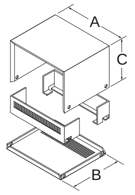

Fig. 13 – Low Profile Instrument Cases - 1458 Series

20 gauge steel case with black satin finish. 0.064" (1.63mm) thick aluminum panels (one satin black and one satin white for each case). Symmetrical design so either end can be front. 6-32 Phillips nickel plated screws and self-adhesive rubber feet included.

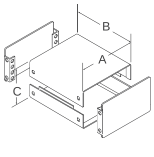

Fig. 14 – Ventilated High Profile Instrument Cases - 1401 Series

20 gauge steel case finished in satin off-white. 0.064" (1.63mm) thick aluminum panels, front finished in satin black; vented back finished in satin off-white. Rear panel is vented top and bottom 6-32 Phillips nickel plated screws and self-adhesive rubber feet included.

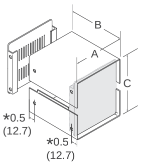

*Both end panels are recessed

Fig. 15 – Plastic Sloping Consoles - 1599 "T" Series

Available in High Impact Polystyrene (light gray) which is non-Flame Retardant and Flame Retardant ABS (light gray or black) which meets UL94V-O flammability tests. Flame Retardant ABS plastic versions include integral threaded brass inserts and machine screws providing extra strength for repeated assembly and disassembly of lid.

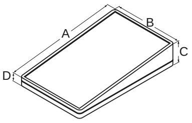

Part No.	Dimensions - Inch (mm) D
1599ETSBK	.72 (18)
1599HTSBK	.75 (19)
1599KTSBK	.67 (17)
1599KTLBK	.71 (18)
1599KTLBKBAT	.71 (18)

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hammond Part No.
Fig. 8 - 1595 ABS Plastic Instrument Consoles								
Light Gray	6.3 (160)	3.8 (97)	2.3 (58)	HM241-ND	10.36	8.63	7.73	1595CGY
	8.5 (216)	5.1 (130)	3.0 (76)	HM242-ND	12.82	10.68	9.57	1595EGY
Black	6.3 (160)	3.8 (97)	2.3 (58)	HM243-ND	10.36	8.63	7.73	1595CBK
	8.5 (216)	5.1 (130)	3.0 (76)	HM244-ND	12.82	10.68	9.57	1595EBK
Fig. 9 - 1411 Aluminum Utility Cases								
Light Gray	2.7 (69)	2.2 (56)	1.6 (41)	HM315-ND	5.00	4.16	3.84	1411B
	3.2 (81)	2.2 (56)	1.1 (28)	HM316-ND	5.07	4.23	3.90	1411C
	3.2 (81)	2.2 (56)	1.6 (41)	HM317-ND	5.10	4.25	3.92	1411D
	4.0 (102)	2.2 (56)	3.0 (76)	HM318-ND	5.60	4.66	4.30	1411F
	4.0 (102)	2.2 (56)	1.6 (41)	HM319-ND	5.30	4.41	4.07	1411G
	4.0 (102)	2.2 (56)	2.2 (56)	HM320-ND	5.39	4.49	4.14	1411H
	5.0 (127)	2.2 (56)	2.2 (56)	HM321-ND	6.18	5.15	4.75	1411K
	5.0 (127)	4.0 (102)	3.0 (76)	HM322-ND	8.04	6.70	6.18	1411L
	5.0 (127)	3.0 (76)	2.2 (56)	HM324-ND	6.57	5.48	5.05	1411N
	6.0 (152)	3.0 (76)	3.0 (76)	HM323-ND	9.00	7.50	6.92	1411M
	6.0 (152)	5.0 (127)	4.0 (102)	HM325-ND	11.27	9.39	8.67	1411P
	7.0 (178)	5.0 (127)	3.0 (76)	HM326-ND	10.98	9.15	8.45	1411Q
	8.0 (203)	6.0 (152)	3.5 (89)	HM327-ND	18.00	15.00	13.85	1411R
	8.0 (203)	4.0 (102)	3.0 (76)	HM328-ND	16.50	13.75	12.69	1411S
	10.0 (254)	2.2 (56)	1.6 (41)	HM329-ND	18.08	15.06	13.90	1411T
	10.0 (254)	6.0 (152)	3.5 (89)	HM330-ND	21.92	18.26	16.86	1411U
	12.0 (305)	3.0 (76)	2.2 (56)	HM331-ND	21.50	17.92	16.54	1411W
	12.0 (305)	7.0 (178)	4.0 (102)	HM332-ND	26.25	21.88	20.19	1411X
	17.0 (432)	5.0 (127)	4.0 (102)	HM333-ND	28.50	23.75	21.93	1411Z
Un-painted	2.7 (69)	2.2 (56)	1.6 (41)	HM605-ND	3.24	2.70	2.49	1411BU
	3.2 (81)	2.2 (56)	1.1 (28)	HM606-ND	3.45	2.88	2.65	1411CU
	3.2 (81)	2.2 (56)	1.6 (41)	HM607-ND	3.72	3.10	2.86	1411DU
	4.0 (102)	2.2 (56)	3.0 (76)	HM608-ND	4.59	3.83	3.54	1411FU
	4.0 (102)	2.2 (56)	1.6 (41)	HM609-ND	4.02	3.35	3.09	1411GU
	4.0 (102)	2.2 (56)	2.2 (56)	HM610-ND	4.32	3.60	3.32	1411HU
	5.0 (127)	2.2 (56)	2.2 (56)	HM611-ND	5.36	4.46	4.12	1411KU
	5.0 (127)	4.0 (102)	3.0 (76)	HM612-ND	6.66	5.55	5.12	1411LU
	5.0 (127)	3.0 (76)	2.2 (56)	HM614-ND	5.70	4.75	4.38	1411NU
	6.0 (152)	3.0 (76)	3.0 (76)	HM613-ND	7.50	6.25	5.77	1411MU
	6.0 (152)	5.0 (127)	4 .0 (102)	HM615-ND	9.51	7.92	7.32	1411PU
	7.0 (178)	5.0 (127)	3.0 (76)	HM616-ND	9.09	7.58	7.00	1411QU
	8.0 (203)	6.0 (152)	3.5 (89)	HM617-ND	13.43	11.19	10.33	1411RU
	8.0 (203)	4.0 (102)	3.0 (76)	HM618-ND	12.00	10.00	9.23	1411SU
	10.0 (254)	2.2 (56)	1.6 (41)	HM619-ND	13.50	11.25	10.38	1411TU
	10.0 (254)	6.0 (152)	3.5 (89)	HM620-ND	16.86	14.05	12.97	1411UU
	12.0 (305)	3.0 (76)	2.2 (56)	HM621-ND	16.50	13.75	12.69	1411WU
	12.0 (305)	7.0 (178)	4.0 (102)	HM622-ND	21.36	17.80	16.43	1411XU
	17.0 (432)	5.0 (127)	4.0 (102)	HM623-ND	24.00	20.00	18.46	1411ZU
Fig. 10 - 1444 Heavy Duty Chassis Cases								
Un-painted	4.0 (102)	4.0 (102)	2.0 (51)	HM257-ND	7.91	6.69	6.21	1444-6
	6.0 (152)	4.0 (102)	2.0 (51)	HM258-ND	8.11	6.87	6.38	1444-8
	7.0 (178)	5.0 (127)	2.0 (51)	HM261-ND	8.86	7.50	6.96	1444-12
	8.0 (203)	4.0 (102)	1.0 (25)	HM259-ND	8.45	7.15	6.64	1444-9
	8.0 (203)	4.0 (102)	2.0 (51)	HM260-ND	8.66	7.33	6.80	1444-10
	9.0 (229)	5.0 (127)	2.0 (51)	HM262-ND	10.69	9.05	8.40	1444-14
	10.0 (254)	6.0 (152)	1.0 (25)	HM263-ND	9.33	7.89	7.33	1444-15
	10.0 (254)	6.0 (152)	2.0 (51)	HM264-ND	11.59	9.81	9.11	1444-16
	12.0 (305)	8.0 (203)	2.0 (51)	HM267-ND	20.22	17.11	15.89	1444-22
	12.0 (305)	8.0 (203)	3.0 (76)	HM268-ND	20.45	17.31	16.07	1444-24
	12.0 (305)	10.0 (254)	2.0 (51)	HM271-ND	20.35	17.22	15.99	1444-29
	13.5 (343)	5.0 (127)	2.0 (51)	HM265-ND	12.27	10.38	9.64	1444-18
	16.0 (406)	8.0 (203)	2.0 (51)	HM269-ND	20.39	17.25	16.02	1444-26
	16.0 (406)	8.0 (203)	3.0 (76)	HM270-ND	24.27	20.54	19.07	1444-28
	17.0 (432)	4.0 (102)	3.0 (76)	HM266-ND	20.32	17.19	15.96	1444-20
	17.0 (432)	10.0 (254)	2.0 (51)	HM272-ND	23.59	19.96	18.54	1444-30
	17.0 (432)	10.0 (254)	3.0 (76)	HM273-ND	27.61	23.37	21.70	1444-32
	17.0 (432)	10.0 (254)	4.0 (102)	HM274-ND	39.82	33.69	31.30	1444-33

Color	Dimensions - Inch (mm) A	B	C	Digi-Key Part No.	Price Each 1	10	100	Hammond Part No.
Fig. 10 - Cover Plates (See Fig. 10 Diagram)								
Un-painted	4.0 (102)	4.0 (102)	Panel Thickness	HM275-ND	3.82	3.23	3.00	1434-6
	6.0 (152)	4.0 (102)		HM276-ND	4.09	3.46	3.21	1434-8
	7.0 (178)	5.0 (127)		HM278-ND	4.01	3.39	3.15	1434-12
	8.0 (203)	4.0 (102)		HM277-ND	3.89	3.29	3.05	1434-10
	9.0 (229)	5.0 (127)		HM279-ND	4.09	3.46	3.21	1434-14
	10.0 (254)	6.0 (152)		HM280-ND	6.14	5.19	4.82	1434-16
	12.0 (305)	8.0 (203)		HM283-ND	8.66	7.33	6.80	1434-22
	12.0 (305)	10.0 (254)		HM285-ND	8.66	7.33	6.80	1434-29
	13.5 (343)	5.0 (127)		HM281-ND	6.55	5.54	5.14	1434-18
	16.0 (406)	8.0 (203)		HM284-ND	8.66	7.33	6.80	1434-26
	17.0 (432)	4.0 (102)		HM282-ND	6.61	5.60	5.20	1434-20
	17.0 (432)	10.0 (254)		HM286-ND	9.18	7.77	7.21	1434-30
Fig. 11 - 1415 Metal Utility Cases								
Gray	4.0 (102)	4.0 (102)	2.0 (51)	HM305-ND	11.42	9.67	8.97	1415A
	4.0 (102)	5.0 (127)	3.0 (76)	HM306-ND	11.60	9.82	9.11	1415B
	6.0 (152)	5.0 (127)	4.0 (102)	HM307-ND	14.74	12.47	11.59	1415C
	6.0 (152)	6.0 (152)	6.0 (152)	HM308-ND	22.62	19.14	17.78	1415D
	9.0 (229)	6.0 (152)	5.0 (127)	HM309-ND	24.49	20.73	19.25	1415E
	10.0 (254)	8.0 (203)	7.0 (178)	HM310-ND	37.05	31.36	29.12	1415F
	10.0 (254)	10.0 (254)	8.0 (203)	HM312-ND	47.71	40.38	37.49	1415H
	12.0 (305)	7.0 (178)	6.0 (152)	HM311-ND	36.84	31.18	28.96	1415G
	12.0 (305)	11.0 (279)	8.0 (203)	HM313-ND	53.78	45.51	42.26	1415I
	15.0 (383)	9.0 (230)	7.0 (179)	HM314-ND	52.64	44.55	41.37	1415J
Fig. 12 - 1426 Ventilated Low Profile Cases								
Off-White	6.0 (152)	5.0 (127)	4.0 (102)	HM297-ND	36.09	30.55	28.36	1426K
	8.0 (203)	6.0 (152)	4.0 (102)	HM298-ND	37.58	31.80	29.53	1426M
	10.0 (254)	7.0 (178)	4.0 (102)	HM299-ND	42.09	35.62	33.08	1426O
	11.0 (279)	11.7 (297)	5.5 (140)	HM300-ND	42.09	35.62	33.08	1426Q
	12.0 (305)	6.0 (152)	4.0 (102)	HM301-ND	45.09	38.17	35.44	1426S
	12.0 (305)	8.0 (203)	4.0 (102)	HM302-ND	45.09	38.17	35.44	1426V
	12.0 (305)	10.0 (254)	4.0 (102)	HM303-ND	48.11	40.71	37.80	1426W
	12.0 (305)	6.0 (152)	5.5 (140)	HM304-ND	45.09	38.17	35.44	1426Y
Fig. 13 - 1458 Low Profile Instrument Cases								
Black	4.0 (102)	4.0 (102)	3.0 (76)	HM334-ND	28.64	24.23	22.50	1458A3
	6.0 (152)	4.0 (102)	4.0 (102)	HM335-ND	31.75	26.86	24.95	1458B4
	6.0 (152)	6.0 (152)	3.0 (76)	HM336-ND	28.64	24.23	22.50	1458C3
	6.0 (152)	6.0 (152)	4.0 (102)	HM337-ND	29.59	25.04	23.25	1458C4
	8.0 (203)	8.0 (203)	3.0 (76)	HM338-ND	34.61	29.28	27.20	1458D3
	8.0 (203)	8.0 (203)	4.0 (102)	HM339-ND	36.52	30.90	28.70	1458D4
	8.0 (203)	8.0 (203)	5.0 (127)	HM340-ND	39.38	33.33	30.95	1458D5
	8.0 (203)	10.0 (254)	3.0 (76)	HM341-ND	37.47	31.71	29.44	1458E3
	8.0 (203)	10.0 (254)	4.0 (102)	HM342-ND	39.61	33.52	31.14	1458E4
	8.0 (203)	10.0 (254)	5.0 (127)	HM343-ND	41.77	35.34	32.82	1458E5
	10.0 (254)	8.0 (203)	3.0 (76)	HM344-ND	39.61	33.52	31.14	1458G3
	10.0 (254)	8.0 (203)	4.0 (102)	HM345-ND	42.95	36.35	33.75	1458G4
	10.0 (254)	8.0 (203)	5.0 (127)	HM346-ND	40.57	34.33	31.89	1458G5
Fig. 14 - 1401 Ventilated High Profile Cases								
Off-White	4.0 (102)	6.0 (152)	4.0 (102)	HM287-ND	39.09	33.08	30.71	1401AAA
	6.0 (152)	6.0 (152)	5.0 (127)	HM288-ND	42.10	35.62	33.08	1401AA
	6.0 (152)	10.0 (254)	5.0 (127)	HM289-ND	45.11	38.17	35.45	1401A
	8.0 (203)	10.0 (254)	9.0 (229)	HM290-ND	52.62	44.53	41.36	1401C
	8.0 (203)	8.0 (203)	8.0 (203)	HM291-ND	49.62	41.99	38.99	1401E
	10.0 (254)	12.0 (305)	9.0 (229)	HM292-ND	66.15	55.97	51.99	1401G
	10.0 (254)	14.0 (356)	6.5 (165)	HM293-ND	67.65	57.24	53.15	1401K
	12.0 (305)	8.0 (203)	9.0 (229)	HM294-ND	70.66	59.79	55.52	1401M
	14.0 (356)	8.0 (203)	9.0 (229)	HM295-ND	72.16	61.06	56.70	1401N
	14.0 (356)	10.0 (254)	5.0 (127)	HM296-ND	64.65	54.70	50.80	1401P
Fig. 15 - 1599 "T" Series Flame Retardant Styrene ABS Plastic Short Slope Console								
Black	3.4 (86)	6.7 (170)	1.3 (33)	HM882-ND	12.36	10.30	9.51	1599ETSBK
	4.3 (109)	8.7 (221)	1.8 (46)	HM883-ND	16.06	13.38	12.35	1599HTSBK
	5.5 (140)	8.7 (221)	1.6 (41)	HM884-ND	14.84	12.37	11.42	1599KTSBK
Fig. 15 - 1599 "T" Series Flame Retardant ABS Plastic Long Slope Console								
Black	8.7 (221)	5.5 (140)	1.6 (41)	HM885-ND	14.84	12.37	11.42	1599KTLBK
Fig. 15 - 1599 "T" Series Flame Retardant ABS Plastic Long Slope Console w/Battery Box								
Black	8.7 (221)	5.5 (140)	1.6 (41)	HM886-ND	18.54	15.45	14.26	1599KTLBKBAT

* With mounting shelf ‡ With lid ground screw
† Dimension "C" does not include lid height § Battery Compartment

3M Scotch® 100 Wire Tie Wraps

Perforated Roll:

Scotch® 100 Cable and Wire Tie Wrap incorporates flexibility, a thin profile, and superior strength for unique cable bundling, wire harnessing, and fastening system. Scotch® 100 tie wraps secure quickly and easily, remain locked without slipping, and can be re-used for maximum efficiency. These fasteners are ideal for use on cable and wire assemblies, fiber optic installations, or bundling and wrapping of most items.

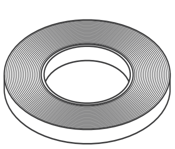
Perforated Roll

Features:

• Easy to install • Flexible • Superior Strength • Re-usable • Thin Construction • Cable Friendly

Specifications:

• **Hook Type:** Polypropylene (Clear) • **Loop Type:** Nylon • **Temp. Rating:** 100°C (212°F)

Description	Thickness	Shear Strength	Digi-Key Part No.	Price Each
Perforated Roll (75 count roll)				
Black, 1" x 8"	.84 mm (0.033 in.)	20 psi	3M53601-ND	6.35
Blue, 1" x 8"	.84 mm (0.033 in.)	20 psi	3M54153-ND	6.35
Green, 1" x 8"			3M54152-ND	6.35
Red, 1" x 8"			3M54154-ND	6.35
White, 1"x 8"			3M54151-ND	6.35
Yellow,1" x 8"			3M54155-ND	6.35
Accessory				
HHD 100 Hand Held Dispenser			3M53604-ND	8.72

3M Tape Foil Shielding Tape

Scotch® EMI/RFI Copper Foil Shielding Tapes provide an easy-to-apply, time saving, cost-effective way to shield against EMI/RFI radiation. Foil tapes are conductive through the adhesive, and offer mechanical, electrical and thermal values to meet your shielding effectiveness/frequency requirements.

Description	Digi-Key Part No.	Price Each 1	5
1/4" x 18 yds. (6.35mm x 16.46m)	3M1181A-ND	10.82	9.27
1/2" x 18 yds. (12.70mm x 16.46m)	3M1181B-ND	21.61	18.53
1" x 18 yds. (25.40mm x 16.46m)	3M1181C-ND	43.23	37.05

ScotchCode™ Wire Marker Tape Dispenser

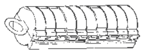

BK = Black **BN** = Brown **GY** = Gray **RD** = Red **WH** = White
BL = Blue **GN** = Green **OR** = Orange **VL** = Violet **YL** = Yellow

Description	Digi-Key Part No.	Price Each
Dispenser Only	STD-ND	12.06
Dispenser with 0-9 Marker Tape	STD-0-9-ND	36.72
Dispenser with Colored Marker Tape	STD-C-ND	36.72
Refill, 1 roll, number - ☐ = 0 thru 9	SDR-☐-ND*	2.62
Refill, 1 roll, colors - ☐☐ = Color Designation	SDR-☐☐-ND*	2.62

* Refill Rolls 8 Feet (2.44 Meters) in Length

Scotch® Adhesive Transfer Tapes 9703

Scotch Adhesive Transfer Tapes aren't really "tapes" at all. They're actually thin strips of pressure sensitive adhesive pre-applied on special release liners. This allows you to quickly and easily apply a neat, precise strip of clean, dry adhesive exactly where you want it. **Mounts flat, flexible circuits:** Features electrical conductivity only through the adhesive thickness. Completely eliminates the need for soldering, solvents, messy cleanup. • Thickness: 0.002" (.05mm) • Adhesive: Acrylic A-40 **Applications:** • Attach EMI/RFI shields • Connect flat flexible circuits • Attach electronic components

Description	Digi-Key Part No.	Price Each
Width, 0.5" (12.70mm)	3M970312-ND	65.52

Scotch® 130C-mil Linerless Rubber Splicing Tape

3M's premier rubber-based, high-voltage insulating tape. Its thermally conductive design eliminates hot spots in splicing and terminating 600V to 69k V. Meets requirements of HH-I-553C, Grade A and B, and ASTM D-4388, Type III.

Description	Digi-Key Part No.	Price Each
3/4" x 30 ft. (19.05mm x 9.1m)	3M130C-ND	13.60

6969 Duct Tape

3M Highland 6969 is a 10.8-mil (0.27mm) commercial grade polyethylene coated cloth tape with rubber adhesive for moisture proofing plumbing, duct sealing, protecting, holding and other general purpose uses. It is silver colored, high tack, conformable, strong and easily torn. 6969 resists backing distortion at temperatures up to 150°F (65°C) for one hour.

Description	Digi-Key Part No.	Price Each
2" x 60 yd. roll (50.8mm x 54.8m), Black	3M69692B-ND	11.76
2" x 60 yd. roll (50.8mm x 54.8m), Silver	3M69692S-ND	9.98

Electrical Tape

Description	Digi-Key Part No.	Price Each
Super 33 Vinyl Plastic Electrical Tape, 3/4" x 66 ft. (19.05mm x 20.12m)	3M33+A-ND	5.52/Roll
Super 88 Vinyl Plastic Electrical Tape, 3/4" x 66 ft. (19.05mm x 20.12m)	3M88A-ND	6.24/Roll
Temflex™ Vinyl Plastic Tape, 3/4" x 60 ft. (19.05mm x 18.2m)	3M1700-ND	1.08/Roll
Vinyl Mastic Pad, 3-1/4 " x 4-1/2" (82.55mm x 114.30mm)	3M11008-ND	3.42/Roll

3M Bumpons® Protective Products

Available in: White, Gray, Brown, Black. Dimensions in inches (mm).

Fig. 1
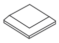
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Fig. 2

W: .50 (12.70)
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Fig. 3
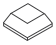
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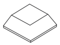
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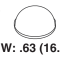
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Fig. 6

W: .44 (11.18)
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Fig. 7
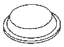
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Fig. 8
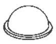
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Fig. 9
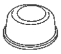
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Fig. 10
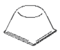
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Fig. 11
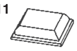
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Fig. 12
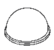
W: .75 (19.05)
Ht: .38 (9.65)

Fig.	Digi-Key Part No.*	Pricing			
1	SJ5508-☐-ND	5.88/**64**	50.44/**640**	67.25/**1,024**	139.21/**3,072**
2	SJ5012-☐-ND	5.50/**56**	47.12/**560**	70.69/**1,008**	146.32/**3,024**
3	SJ5518-☐-ND	10.17/**64**	87.15/**640**	116.20/**1,024**	240.53/**3,072**
4	SJ5523-☐-ND	.96/**4**	7.43/**36**	86.71/**504**	119.66/**1,008**
5	SJ5027-☐-ND	9.87/**40**	110.03/**520**	126.53/**1,040**	597.26/**5,200**
6	SJ5303-7-ND†	5.10/**56**	43.73/**560**	65.60/**1,008**	135.78/**3,024**
7	SJ5312-7-ND†	5.50/**56**	47.12/**560**	70.69/**1,008**	146.32/**3,024**
8	SJ5003-☐-ND	5.10/**56**	43.73/**560**	65.60/**1,008**	135.78/**3,024**
9	SJ5009-☐-ND	9.89/**24**	25.44/**72**	148.38/**504**	204.76/**1,008**
10	SJ5514-☐-ND	2.25/**4**	17.38/**36**	202.77/**504**	279.83/**1,008**
11	SJ5007-0-ND	4.61/**54**	39.53/**540**	65.88/**1,080**	127.28/**3,024**
12	SJ5017-☐-ND	12.65/**40**	140.93/**520**	162.07/**1,040**	769.71/**5,200**

* *Use numbers to designate color choice :* **9**–white, **8**–gray, **1**–brown, **0**–black, in the ☐ of each part #. † Transparent.

Scotch® 35 7-mil Vinyl Electrical Color Coding Tape

Agile and versatile performer that stretches to conform to virtually any shape that requires color-coded insulation. Its excellent elongation, flexibility and strength make it easy to handle. The eight fade-resistant colors are easily distinguished for fast identification of electrical phases, leads, piping and safety areas. Meets requirements of UL 510 and CSA 22.2 **Features:** • Aggressive pressure-sensitive, rubber-based adhesive • Excellent electrical insulating properties • Resists weather, abrasion, corrosion, alkalies and acids • Flame retardant

Description	Digi-Key Part No.	Price Each
3/4" x 66 ft. (19mm x 20.1m) Color Designation ☐☐	3M35-☐☐-ND	5.14

BL = Blue **RD** = Red
GN = Green **VL** = Violet
GY = Gray **WH** = White
OR = Orange **YL** = Yellow

Scotch® 70 Self- Fusing Silicone Rubber Electrical Tape

High-temperature, arc and track-resistant self-fusing tape. It's composed of long-lasting silicone rubber with an easy-tear, easy-strip liner. Scotch 70 Tape is well-suited to protect high-voltage cable terminations against arcing and tracking. Operating Temperature: 180°C.

Description	Digi-Key Part No.	Price Each 1	10
1" x 30 ft. (25.4mm x 9.1m)	3M70-ND	43.10	37.72

Scotch-Mount™
No. 4008 and 4026 Double Coated Foam Tapes

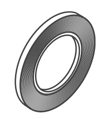

The foam carrier makes them flexible and conformable, great for filling space and ideal for joining rough and irregular surfaces. • Adhesive: Acrylic A-20
Applications: • Bond • mirrors • to walls or furniture • Bond acoustic panels to walls

Description	Digi-Key Part No.	Price Each
Thickness, 0.125" (3.18mm)	3M4008-ND	56.98
Thickness, 0.062" (1.57mm)	3M4026-ND	32.95

Scotch-Mount™ Double-Coated Foam Tape

Urethane Foam: Soft, conformable, and high in internal strength which makes it ideal for general purpose mounting and joining. The excellent cold temperature properties make it suited for application on snowmobiles, freezers, etc.

Vinyl Foam: Designed for general purpose mounting and joining, they offer one-piece removal. Their high degree of conformability makes them well suited for joining rough, mis-matched surfaces and the closed-cell foam makes excellent water and air seal in certain applications.

Description	Digi-Key Part No.	Price Each
Urethane 1/16" Thick, 1" x 36 yds., White (1.59mm x 25.40mm x 32.92m)	3M40161-ND	38.34
Vinyl 1/8" Thick, 1" x 36 yds. (3.18mm x 25.40mm x 32.92m)	3M44081-ND	79.11
Vinyl 1/16" Thick, 1" x 36 yds., Black (1.59mm x 25.40mm x 32.92m)	3M44161B-ND	60.68
Vinyl 1/16" Thick, 1" x 36 yds., White (1.59mm x 25.40mm x 32.92m)	3M44161W-ND	60.68

Scotch-Brite™
High Performance Cloth 2011

2011 high performance cloth provides excellent dust, oil and water pickup with minimal linting. This is a versatile non-scratching tool to be used on a wide variety of substrates including stainless steel, chrome, enamel, painted surfaces, plastics, glass, computer monitors, wood, marble and other delicate surfaces. It can be used dry or damp, with or without cleaning chemicals.

Description	Digi-Key Part No.	Price Each 1	5	10	25
Blue, High Performance Cloth, 32 x 36cm	3M2011B-ND	4.86	4.37	3.89	3.40
Red, High Performance Cloth, 32 x 36cm	3M2011R-ND	4.86	4.37	3.89	3.40
White, High Performance Cloth, 32 x 36cm	3M2011W-ND	4.86	4.37	3.89	3.40

3M Fastening Systems

Scotchmate™ Hook and Loop Fastening Systems

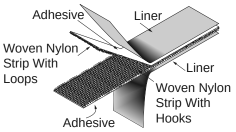

When the two sides of a Scotch-mate Hook and Loop Fastener are pressed together, hundreds of tiny stiff hooks mesh with a surface of pliable loops. Simply press together to fasten and pull apart to open and you can do it thousands of times during the life of your product. Depending on the application, select either plain-backed or adhesive-backed versions. Plain-backed versions are easily sewn or stapled in place. Adhesive-backed fasteners are available for bonding to bare or painted metal, many plastics including plasticized vinyl, plus wood, glass and more.

Plain, standard sew on: • Wash or dry clean • **Operating Temp.:** Up to 250°F (121°C) continuous • **Features:** Tailored appearance for garments

Pressure sensitive rubber adhesive: • **Features:** General purpose adhesion to most smooth surfaces • **Operating Temp.:** -20°F ~ 120°F (-29°C ~ 49°C)

Width In. (mm)	Digi-Key Part No.	Note: X in Part No. = Yards Price Per Yard 1	10	25	50
Plain-Backed / Black					
5/8 (15.88)	SJ340158B-X-ND†	1.04	8.31	12.99	15.59
5/8 (15.88)	SJ340258B-X-ND*	1.04	8.31	12.99	15.59
1 (25.40)	SJ340110B-X-ND†	1.48	11.86	18.53	22.23
1 (25.40)	SJ340210B-X-ND*	1.48	11.86	18.53	22.23
Plain-Backed / White					
5/8 (15.88)	SJ340158W-X-ND†	.90	7.20	11.25	16.32
5/8 (15.88)	SJ340258W-X-ND*	.90	7.20	11.25	13.50
1 (25.40)	SJ340110W-X-ND†	1.48	11.86	18.53	22.23
1 (25.40)	SJ340210W-X-ND*	1.48	11.86	18.53	22.23
Adhesive-Backed					
5/8 (15.88)	SJ352758B-X-ND†	4.48	35.87	56.05	65.61
5/8 (15.88)	SJ352658B-X-ND*	4.93	39.46	61.66	65.61
1 (25.40)	SJ352710B-X-ND†	6.17	49.36	77.13	82.06
1 (25.40)	SJ352610B-X-ND*	6.17	49.36	77.13	82.06

* Hook † Loop

Dual Lock™ Reclosable Fastening Systems

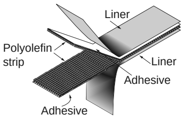

When these fasteners are pressed together, hundreds of mushroom-shaped stems interlock with one another. An audible snap announces that the fastener is locked. Compared to hook and loop fasteners, you get improved tensile strength with five times more holding power. Open and close hundreds of times during the life of your product. Plain-backed versions can be easily sewn, stapled or ultrasonically bonded in place. Adhesive-backed versions are available for bonding to bare or painted metal, many plastics including plasticized vinyl, plus wood, glass and more. For easy opening applications, you can mate Type 250 with Type 170. For medium opening, you can mate Type 170 with Type 400 or Type 250 with itself. For greater holding power with limited openings, you can mate Type 250 with Type 400 or mate Type 170 with Scotchmate Loop Products. **Plain-Backed:** Sew on or staple. Wash or dry clean. • **Operating temp.**: -20°F ~ 200°F (-29°C ~ 93°C) **Pressure Sensitive Rubber Adhesive:** General purpose. Bonds to most surfaces. • Operating Temperature: -20°F ~ 120°F (-29°C ~ 49°C) continuous. **Pressure Sensitive Very High Bond Scotch™ VHB™ Acrylic Adhesive:** High performance for aircraft, automotive, business equipment, electronics. Resists harsh wet/dry, hot/cold cycles. • **Operating Temperature**: -20°F ~ 158°F (-29°C ~ 70°C) continuous

Width In. (mm)	Type	Digi-Key Part No.	Note: X in Part No. = Yards Price Per Yard 1	10	25	50
Plain-Backed / Black						
.5 (12.70)	250	SJ344012-X-ND	5.29	42.28	66.06	87.20
.5 (12.70)	400	SJ344112-X-ND	4.84	38.72	60.50	77.31
.5 (12.70)	170	SJ344212-X-ND	5.81	46.51	72.67	77.31
1 (12.70)	250	SJ344010-X-ND	8.81	70.46	110.10	171.90
1 (25.40)	400	SJ344110-X-ND	8.07	64.53	100.83	128.85
1 (25.40)	170	SJ344210-X-ND	8.07	64.53	100.83	128.85
Plain-Backed / Clear						
.5 (12.70)	250	SJ346012-X-ND	6.75	54.00	84.38	89.78
1 (25.40)	250	SJ346010-X-ND	11.25	89.99	140.61	149.60
Adhesive-Backed / Black						
.5 (12.70)	250	SJ354012-X-ND	6.01	48.09	75.14	103.16
.5 (12.70)	400	SJ354112-X-ND	6.68	53.42	83.46	88.80
.5 (12.70)	170	SJ354212-X-ND	6.68	53.42	83.46	88.80
1 (25.40)	250	SJ354010-X-ND	11.46	91.68	143.25	171.90
1 (25.40)	400	SJ354110-X-ND	11.13	89.00	139.06	147.96
1 (25.40)	170	SJ354210-X-ND	11.13	89.00	139.06	147.96
VHB Adhesive Back / Black						
.5 (12.70)	250	SJ355012-X-ND	9.79	78.33	122.39	130.22
.5 (12.70)	400	SJ355112-X-ND	9.79	78.33	122.39	130.22
.5 (12.70)	170	SJ355212-X-ND	9.79	78.33	122.39	130.22
1 (25.40)	250	SJ355010-X-ND	16.32	130.53	203.95	244.74
1 (25.40)	400	SJ355110-X-ND	16.32	130.53	203.95	208.03
1 (25.40)	170	SJ355210-X-ND	16.32	130.53	203.95	208.03
VHB Adhesive Back / Clear						
.5 (12.70)	250	SJ356012-X-ND	11.47	91.74	143.34	152.51
1 (25.40)	250	SJ356010-X-ND	19.12	152.94	238.98	243.75

MiniPack

Assorted 3M Fastening Systems that contain 4.9 yard rolls of mating fasteners.

Description	Digi-Key Part No.	Price Each 1	5	10
Hook and Loop				
Black, 1", Sew-on	MP-3401/02B-ND	18.88	16.19	14.57
White, 1", Sew-on	MP-3401/02W-ND	18.88	16.19	14.57
Black, 1", Adhesive	MP-3526/27B-ND	36.40	31.20	28.08
White, 1" Adhesive	MP-3526/27W-ND	36.40	31.20	28.08
Dual Lock				
Black, 1", Adhesive	MP-3541/42B-ND	54.55	46.76	42.08
Black, 1", High Bond	MP-3551/52B-ND	76.32	65.42	58.88

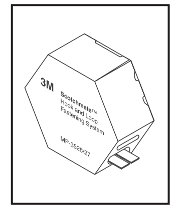

Rigid Backed Dual Lock

Type 400 Dual Lock Fasteners on a rigid back with recessed mounting hole.

Size	Hole Size	Digi-Key Part No.	Pricing 1	50	100
20.6 Diameter	4.1mm	SJ3463-ND	.30	12.00	18.00
14.3 Diameter	4.1mm	SJ3465-ND	.40	16.00	24.00
38.1 Square	4.2mm	SJ3252-ND	.68	27.00	40.50
38.1 Square	3.6mm	SJ3261-ND	.68	27.00	40.50

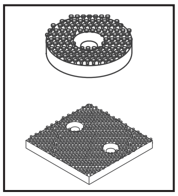

Richco Adjustable Kwik Klip

• 4 sizes adjust to any holding diameter from 5/16" to 1" (7.9-25.4mm) • Locks securely, easily reopened for routing changes. Adhesive back • Material: Nylon 6/6 • Color: Natural

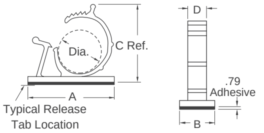

Dia. Range (mm)	Dimensions (mm) A	B	C	D	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
7.87-10.16	25.40	19.05	22.10	10.16	RP309-ND	7.39	61.61	246.44	AKKL-3140A-RT
11.68-14.22	31.75	19.05	27.69	10.16	RP310-ND	9.24	77.03	308.10	AKKL-4756A-RT
14.48-19.05	38.10	19.05	31.75	12.70	RP311-ND	12.74	106.21	424.82	AKKL-5775A-RT
22.10-25.40	50.80	25.40	44.45	12.70	RP312-ND	14.42	120.20	480.80	AKKL-8710A-RT

Tie Holders

Fig. 1

• Multi-directional • Material: Nylon 6/6, UV Stabilized Nylon 6/6

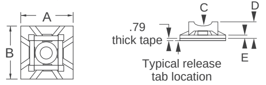

Fig. 2

• Ramp feature allows ties to pass through easily • 4-way entry • Material: Nylon 6/6, Adhesive, UV Stabilized Nylon 6/6

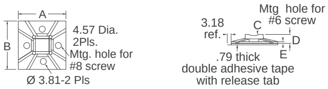

Digi-Key Part No.	Digi-Key Part No.	Dimensions (mm) A	B	C	D	E	Tensile Force (kg)
RP301-ND	RP305-ND	19.05	19.05	6.35	6.10	1.52	6.72/11.20
RP302-ND	RP306-ND	25.40	25.40	11.68	7.11	1.78	18.66/22.39
RP303-ND	RP307-ND	38.10	38.10	10.92	7.62	2.03	44.79
RP304-ND	—	50.80	50.80	10.92	7.62	2.03	44.79

Fig.	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
Nylon					
1	RP301-ND	4.02	33.48	133.92	FTH-5A-01A-RT
1	RP302-ND	5.03	41.95	167.78	FTH-7-01A-RT
2	RP303-ND	12.16	101.37	405.48	FTH-8-01A-RT
2	RP304-ND	15.14	126.20	504.80	FTH-10-01A-RT
Ultra Violet – Exterior or Outdoor Use (Black)					
1	RP305-ND	4.48	37.30	149.20	FTH-5-01A-RT-UVB
1	RP306-ND	6.63	55.26	221.04	FTH-7-01A-RT-UVB
2	RP307-ND	14.15	117.95	471.78	FTH-8-01A-RT-UVB

LED Spacers

• Spaces LED from surface of board • Easily installed by hand • Insulates and spaces leads • Slots and holes for choice of mount • Material for LEDS1E and LEDS2E: Nylon 6/6 • Color: Natural

Fig. 1

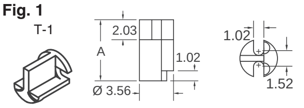

Fig. 2

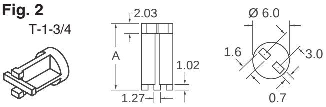

Fig.	Dim. A (mm)	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
1	4.57	RP500-ND	3.39	28.25	113.00	LEDS1E-3-01
	6.35	RP501-ND	3.58	29.85	119.40	LEDS1E-4-01
	12.70	RP502-ND	3.96	33.00	131.98	LEDS1E-8-01
	15.75	RP503-ND	4.06	33.80	135.20	LEDS1E-10-01
	19.05	RP504-ND	4.13	34.40	137.60	LEDS1E-12-01
2	4.57	RP505-ND	4.29	35.75	143.00	LEDS2E-3-01
	6.35	RP506-ND	4.48	37.34	149.34	LEDS2E-4-01
	12.70	RP507-ND	4.86	40.48	161.92	LEDS2E-8-01
	15.75	RP508-ND	4.94	41.15	164.58	LEDS2E-10-01
	19.05	RP509-ND	5.01	41.75	167.00	LEDS2E-12-01

Hole Grommet

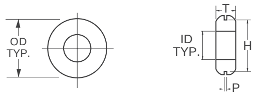

• Installs instantly • Material: Flexible vinyl • Color: Black

Dimensions (mm) ID	H	P	OD	T	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
3.05	4.57	1.52	7.87	6.35	RP450-ND	1.48	12.30	49.20	HG-2
3.81	6.35	1.52	9.40	6.35	RP451-ND	1.52	12.69	50.74	HG-2.5
4.57	7.87	.76	10.92	4.57	RP452-ND	1.67	13.92	55.68	HG-3
5.33	7.87	1.52	10.92	5.33	RP453-ND	1.86	15.52	62.06	HG-3.5
6.35	9.40	2.29	14.22	7.11	RP454-ND	2.05	17.10	68.38	HG-4
9.40	12.70	1.52	17.27	7.11	RP455-ND	3.42	28.49	113.94	HG-6
14.22	17.27	1.52	22.10	4.57	RP456-ND	4.33	36.09	144.36	HG-9
17.27	19.05	1.52	23.62	4.57	RP457-ND	4.79	39.88	159.50	HG-11

Liquid Tight Grommet

• Provides dust and watertight seal • Conforms to IP67 standards
• Provides light strain relief • Fits a variety of cable sizes

Fig. 1

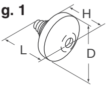

Fig. 2

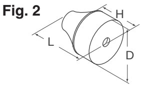

Fig.	Color	Mat'l	Panel Hole (mm)	Panel Thick (mm)	Cable Size (mm)	Dim. (mm) D	L	H	Digi-Key Part No.	Price Each 10	100	Richco Part No.
1	Black	RMS -153	12.5	0.5–2.0	3.0–5.0	19.8	17.0	7.1	RP740-ND	1.16	.97	LTG-199017
2	Gray	RMS-125	16.0	1.0–4.0	5.0–7.0	21.0	18.9	6.2	RP741-ND	2.14	1.43	LTG-39897
			19.0	1.0–4.0	7.0–10.0	23.9	19.6	6.1	RP742-ND	2.51	1.67	LTG-34715
			23.0	1.0–4.0	10.0–14.0	27.9	22.9	6.6	RP743-ND	3.01	2.01	LTG-34716
			29.0	1.0–4.0	14.0–20.0	35.8	24.4	6.6	RP744-ND	3.55	2.37	LTG-43021

Locking Circuit Board Supports

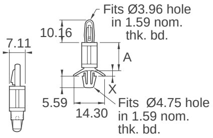
Fits Ø3.96 hole in 1.59 nom. thk. bd.
10.16
7.11
A
X
5.59
14.30
Fits Ø4.75 hole in 1.59 nom. thk. bd.

- Both ends lock by hand; no tools required
- Strong, dependable grip
- Material: Nylon 6/6
- Color: Natural

Dim. A (mm)	Digi-Key Part No.	Pricing 10	100	500	1,000	Richco Part No.
4.57	RP425-ND	2.19	18.24	72.96	109.44	LCBS-3
6.35	RP426-ND	2.33	19.41	77.62	116.43	LCBS-4
9.40	RP428-ND	2.45	20.38	81.50	122.25	LCBS-6
10.92	RP429-ND	2.54	21.20	84.78	127.17	LCBS-7
12.70	RP430-ND	2.63	21.92	87.66	131.49	LCBS-8
15.75	RP431-ND	2.81	23.44	93.76	140.64	LCBS-10
19.05	RP432-ND	3.00	24.99	99.96	149.94	LCBS-12
25.40	RP434-ND	3.37	28.10	112.40	168.60	LCBS-16

Wire Saddle

Wire Saddles are ideal for routing wires or optical fiber. Wires can be easily inserted into the top side of the saddle to protect them from abrasion. The "micro" is ideal for low profile applications and takes up very little real estate.

The MOFNSA is designed to snap into a .125" diameter hole in a .093" thick panel for applications that require a thicker board than the standard 1/16" board.

Micro

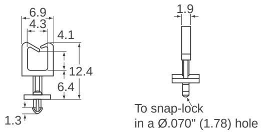

MOFNSA

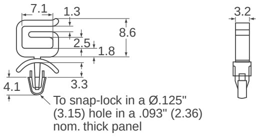
7.1
1.3
8.6
2.5
1.8
4.1
3.3
3.2
To snap-lock in a Ø.125" (3.15) hole in a .093" (2.36) nom. thick panel

Hole Dim Inch (mm)	Panel Thick. Inch (mm)	Digi-Key Part No.	Pricing 10	100	500	Richco Part No.
Standoff Micro Wire Saddle						
.070 (1.75)	.062 (1.57)	RP738-ND	3.12	26.01	104.04	SMWS-1-01
.070 (1.75)	.093 (2.36)	RP739-ND	3.12	26.01	104.04	SMWS1-1-01
Mini Optical Fiber Network Saddle						
.125 (3.18)	.093 (2.36)	RP737-ND	2.49	20.77	83.06	MOFNSA-2-01

Twist-Lok (TL Series)

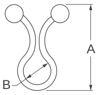

- Twist to secure wire bundles
- Material: Nylon 6/6, RMS-01
- Color: Natural

"A" Overall Hgt. (mm)	"B" Wire Bundle Dia. (mm)	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
22.86	5.08-7.62	RP600-ND	2.67	9.14	54.83	TL-250
26.16	7.62-10.16	RP601-ND	2.85	9.77	58.64	TL-350
30.48	10.16-12.70	RP602-ND	3.07	10.54	63.22	TL-450
33.78	13.97-16.51	RP603-ND	3.21	11.00	65.99	TL-600
39.37	17.78-20.32	RP604-ND	3.73	12.78	76.68	TL-750
43.18	Max. 25.40	RP605-ND	3.83	13.14	78.84	TL-950
55.63	Max. 30.23	RP606-ND	5.19	17.80	106.78	TL-1125
68.07	Max. 36.58	RP607-ND	6.18	21.18	127.08	TL-1375
74.42	Max. 39.62	RP608-ND	7.67	26.29	157.75	TL-1500
87.63	Max. 45.97	RP609-ND	8.13	27.88	167.29	TL-1750

Kurly-Lok On Base (KLB Series)

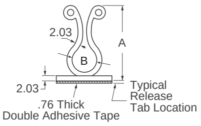

- Adhesive backing, RMS-15
- Material: Nylon 6/6, RMS-01
- Color: Natural

"A" Overall Height (mm)	"B" Wire Bundle (mm)	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
27.18	7.62-10.16	RP610-ND	12.04	41.27	247.61	KLB-350A-RT
31.24	10.16-12.70	RP611-ND	13.31	45.63	273.78	KLB-450A-RT
40.13	17.78-20.32	RP612-ND	13.99	47.95	287.71	KLB-750A-RT

Wire Cord Klip (WCK Series)

- Adhesive backing for quick mounting
- Material: Nylon 6/6, RMS-01
- Color: Natural

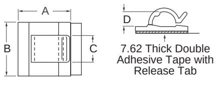

Hole Dia.	Dimensions (mm) A	B	C	D
4.57	16.00	15.75	7.87	4.06
11.43	25.15	25.15	11.94	7.11
18.29	25.40	25.40	12.70	13.46

Description	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
4.57mm. Dia., w/Tape	RP617-ND	13.31	45.65	273.89	WCK-180-01A-RT
11.43mm. Dia., w/Tape	RP618-ND	23.37	80.13	480.78	WCK-460-01A-RT
18.29mm. Dia., w/Tape	RP619-ND	29.06	99.64	597.82	WCK-720-01A-RT
18.29mm. Dia., w/oTape	RP622-ND	11.87	38.26	329.83	WCK-720-01

Strain Relief Bushings

(SRB-D/F/R Series)

- Bushing eliminates strain and wear on wires and cords
- Withstands temperatures to 150°F (65°C)
- Material: Nylon 6/6, RMS-40
- Color: Black
- UL #E40234, CSA #LR52044

Mounting Holes

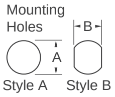

Bushing Dimensions

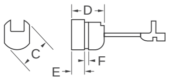

Digi-Key Part No.	Approx. Wire Size (mm)	Mntg. Hole (mm) Style A	Style B	Dimensions (mm) C	D	E	F*
RP460-ND	3.05 x 5.59	11.10	10.03	11.68	10.41	4.06	1.57
RP461-ND	2.79 x 5.33 2.29 x 4.57	9.52	8.76	10.79	10.41	3.94	1.57
RP462-ND	4.09 x 7.62 3.81 x 7.11	13.08 12.70	11.81	14.48	12.70	4.34	2.54
RP463-ND	4.06 x 9.40 3.81 x 8.64 5.08 x 9.40 4.57 x 8.89	14.27	13.46	15.49	15.24	6.10	3.30
RP464-ND	4.83 x 7.62 3.81 x 7.11 4.06 x 7.62	12.70	11.58	13.84	10.19	3.61	1.80
RP465-ND	6.35 6.73 7.37 6.86	12.70 13.08 13.08 12.70	11.81	14.22	10.92	4.19	2.54
RP466-ND	8.25 7.62 9.02 8.38	16.66 17.45	14.48	18.45	17.27	6.98	3.18

* Maximum Panel Thickness

Digi-Key Part No.	Pricing 25	100	1,000	5,000	Richco Part No.
RP460-ND	3.15	10.79	64.73	52.15/M	SRB-D-3
RP461-ND	9.42	32.31	193.86	156.17/M	SRB-F-2
RP462-ND	4.00	13.73	82.37	66.36/M	SRB-F-4
RP463-ND	12.72	43.60	261.61	210.75/M	SRB-F-5
RP464-ND	3.26	11.18	67.10	54.06/M	SRB-F-7
RP465-ND	3.47	11.89	71.35	57.48/M	SRB-R-5
RP466-ND	7.70	26.41	158.44	127.63/M	SRB-R-6
RPSRPL-ND	SRB Pincher Tool...................................... $95.43/1				SRPL-2

C-Type Flat Cable Clamps

(CFCC Series)

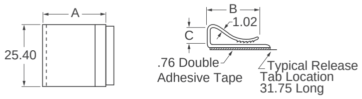

- Designed for routing flat ribbon cable
- Serrated grip to prevent slippage
- Adhesive backing for quick mount in any direction
- Material: Noryl-White, RMS-05; PVC-Gray RMS-04

Digi-Key Part No.	Dimensions (mm) A	B	C	Material
RP391-ND	14.27	12.45	4.57	Noryl (White)
RP392-ND	14.27	10.16	6.35	Noryl (White)
RP393-ND	26.97	22.35	6.35	Noryl (White)
RP394-ND	26.97	22.35	6.35	Rigid PVC (Gray)

Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
RP391-ND	11.89	40.76	244.58	CFCC-3-05A-RT
RP392-ND	15.09	51.73	310.39	CFCC-4-05A-RT
RP393-ND	18.83	64.56	387.36	CFCC-8-05A-RT
RP394-ND	14.53	49.80	298.80	CFCC-8-04A-RT

Cable Clamps

(N Series)

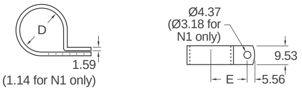

- Material: Nylon 6/6, RMS-01
- Colors: Natural and Black

Description	Dim. (mm) D	E	Digi-Key Part No.	Pricing 25	100	1,000	Richco Part No.
Black, RMS-49	1.60	6.86	RP322-ND	1.66	5.69	34.16	N-1-BK
Black, RMS-49	3.18	8.33	RP323-ND	1.69	5.81	34.85	N-2-BK
Black, RMS-49	4.78	9.91	RP324-ND	1.94	6.67	40.00	N-3-BK
Black, RMS-49	6.35	10.69	RP325-ND	2.02	6.93	41.58	N-4-BK
Black, RMS-49	7.95	11.51	RP326-ND	2.04	7.00	42.01	N-5-BK
Black, RMS-49	9.52	12.29	RP327-ND	2.22	7.60	45.58	N-6-BK
Black, RMS-49	11.13	11.99	RP328-ND	2.30	7.88	47.30	N-7-BK
Black, RMS-49	12.70	14.27	RP329-ND	2.33	7.98	47.88	N-8-BK
Natural, RMS-01	1.60	6.86	RP314-ND	1.85	6.33	37.98	N-1
Natural, RMS-01	3.18	8.33	RP315-ND	1.88	6.46	38.74	N-2
Natural, RMS-01	4.78	9.91	RP316-ND	2.16	7.40	44.42	N-3
Natural, RMS-01	6.35	10.69	RP317-ND	2.24	7.69	46.15	N-4
Natural, RMS-01	7.95	11.51	RP318-ND	2.27	7.79	46.73	N-5
Natural, RMS-01	9.52	12.29	RP319-ND	2.46	8.45	50.69	N-6.173
Natural, RMS-01	11.13	11.99	RP320-ND	2.56	8.77	52.60	N-7
Natural, RMS-01	12.70	14.27	RP321-ND	2.58	8.86	53.17	N-8

Richco

Wrap-It-Ties

- Easy to use permanent lock
- Strong, one-piece construction
- Serviceable to 185°F (85°C)
- UL recognized #E71558

Wire Tie Gun

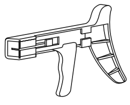

RPWTA-ND..........$11.20

Economy Installation Tool

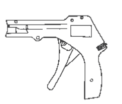

RPWTG-ND $48.94

Replace ☐ with "C" for package of 100, "M" for package of 1,000.

Max. Bundle Dia. (in.)	Approx. Length (in.)	Min. Loop Tensile Strength (Lbs.)	Approx. Width (in.)	Color	Digi-Key Part No.	Package Size Price Per Pkg. C = 100	 Price Per Pkg. M = 1000	Richco Part No.
					Nylon 6/6			
0.6	3.25	18	.10	Natural	RP101☐-ND	2.89	16.52	WIT-18SF
0.6	3.25	18	.10	Red	RP101RD☐-ND	—	18.07	WIT-18SF-RD
0.7	4.5	18	.10	Natural	RP102☐-ND	3.22	18.36	WIT-18R
0.7	4.5	18	.10	Blue	RP102BL☐-ND	3.29	18.76	WIT-18R-BL
0.7	4.5	18	.10	Green	RP102GN☐-ND	3.29	18.76	WIT-18R-GN
0.7	4.5	18	.10	Red	RP102RD☐-ND	3.29	18.76	WIT-18R-RD
0.7	4.5	18	.10	Yellow	RP102YL☐-ND	3.29	18.76	WIT-18R-YL
1.3	5.75	18	.10	Natural	RP213☐-ND	3.86	22.03	WIT-18L
2.1	8.0	18	.10	Natural	RP103☐-ND	5.01	28.66	WIT-18V
2.1	8.0	18	.10	Green	RP103GN☐-ND	6.83	—	WIT-18V-GN
1.2	5.75	30	.14	Natural	RP104☐-ND	6.04	34.52	WIT-30R
1.2	5.75	30	.14	Blue	RP104BL☐-ND	6.17	35.24	WIT-30R-BL
1.2	5.75	30	.14	Green	RP104GN☐-ND	6.17	35.24	WIT-30R-GN
1.2	5.75	30	.14	Red	RP104RD☐-ND	6.17	35.24	WIT-30R-RD
1.2	5.75	30	.14	Yellow	RP104YL☐-ND	6.17	35.24	WIT-30R-YL
1.8	7.3	30	.14	Natural	RP105☐-ND	6.49	37.08	WIT-30L
1.8	7.3	30	.14	Green	RP105GN☐-ND	9.62	—	WIT-30L-GN
1.8	7.3	30	.14	Yellow	RP105YL☐-ND	7.16	—	WIT-30L-YL
0.7	4.5	40	.14	Natural	RP214☐-ND	5.98	33.41	WIT-40S
1.2	5.75	40	.14	Natural	RP106☐-ND	7.01	40.03	WIT-40R
1.2	5.75	40	.14	Blue	RP106BL☐-ND	7.70	39.10	WIT-40R-BL
1.2	5.75	40	.14	Green	RP106GN☐-ND	7.70	39.10	WIT-40R-GN
1.2	5.75	40	.14	Red	RP106RD☐-ND	7.70	39.10	WIT-40R-RD
1.2	5.75	40	.14	Yellow	RP106YL☐-ND	7.70	35.60	WIT-40R-YL
1.8	7.3	40	.14	Natural	RP107☐-ND	8.74	49.93	WIT-40L
1.8	7.3	40	.14	Blue	RP107BL☐-ND	—	48.71	WIT-40L-BL
1.8	7.3	40	.14	Green	RP107GN☐-ND	9.59	48.71	WIT-40L-GN
1.8	7.3	40	.14	Red	RP107RD☐-ND	9.59	48.71	WIT-40L-RD
3.1	11.1	40	.15	Natural	RP215☐-ND	15.17	86.65	WIT-40VL
1.5	6.0	50	.19	Natural	RP108☐-ND	7.13	40.75	WIT-50S
1.5	6.0	50	.19	Green	RP108GN☐-ND	7.84	—	WIT-50S-GN
1.5	6.0	50	.19	Red	RP108RD☐-ND	7.84	—	WIT-50S-RD
1.5	6.0	50	.19	Yellow	RP108YL☐-ND	10.69	—	WIT-50S-YL
2.0	8.0	50	.19	Natural	RP109☐-ND	8.09	46.26	WIT-50R
2.0	8.0	50	.19	Blue	RP109BL☐-ND	8.44	48.20	WIT-50R-BL
2.0	8.0	50	.19	Green	RP109GN☐-ND	8.44	48.20	WIT-50R-GN
2.0	8.0	50	.19	Red	RP109RD☐-ND	12.31	48.20	WIT-50R-RD
2.0	8.0	50	.19	Yellow	RP109YL☐-ND	8.44	48.20	WIT-50R-YL
4.5	15.3	50	.18	Natural	RP110☐-ND	14.46	82.62	WIT-50L
2.7	10.7	60	.18	Natural	RP216☐-ND	12.47	71.24	WIT-60R
4.2	15.06	120	.30	Natural	RP111C-ND	34.07	—	WIT-120R
					UV Stabilized Nylon 6/6 – Exterior or Outdoor Use			
0.6	3.25	18	.10	Black	RP201☐-ND	3.22	18.36	WIT-18SF-UVB
0.7	4.5	18	.10	Black	RP202☐-ND	3.53	20.20	WIT-18R-UVB
2.1	8.0	18	.10	Black	RP203☐-ND	5.47	31.21	WIT-18V-UVB
1.2	5.75	30	.14	Black	RP204☐-ND	6.68	38.20	WIT-30R-UVB
1.8	7.3	30	.14	Black	RP205☐-ND	7.20	41.11	WIT-30L-UVB
1.2	5.75	40	.14	Black	RP206☐-ND	8.47	44.06	WIT-40R-UVB
1.8	7.3	40	.14	Black	RP207☐-ND	9.58	54.72	WIT-40L-UVB
1.5	6.0	50	.19	Black	RP208☐-ND	7.84	44.78	WIT-50S-UVB
2.0	8.0	50	.19	Black	RP209☐-ND	8.93	51.05	WIT-50R-UVB
4.5	15.3	50	.18	Black	RP210☐-ND	15.94	91.08	WIT-50L-UVB
4.2	15.06	120	.30	Black	RP211C-ND	37.08	—	WIT-120R-UVB
					Nylon 6/6, Size 10 / Screw Mount			
1.5	6.75	50	.19	Natural	RP224☐-ND	—	94.00	WITSH-10-50MS
2	8.69	50	.19	Natural	RP225☐-ND	18.55	109.08	WITSH-10-50MRL
3	11.25	50	.19	Natural	RP226☐-ND	21.69	112.36	WITSH-10-50MR
					Nylon 6/6 Release Tab			
1.25	5.5	40	.21	Natural	RP217☐-ND	8.92	87.98	WIT-RT-0550
2	8.0	40	.21	Natural	RP218☐-ND	16.97	96.98	WIT-RT-0800
2.5	10.5	40	.21	Natural	RP219☐-ND	29.75	146.59	WIT-RT-1050

Max. Bundle Dia. (In.)	Approx. Length (In.)	Min. Loop Tensile Strength (Lbs.)	Approx. Width (In.)	Color	Digi-Key Part No.	Pricing 25	 100	Richco Part No.
					Nylon 6/6 Release Tab (Large Size)			
4	15.25	250	.52	Natural	RP221-ND	40.41	138.56	WIT-RT-1525
6	21.5	250	.52	Natural	RP222-ND	46.20	158.39	WIT-RT-2150
8	27.75	250	.52	Natural	RP223-ND	54.32	186.24	WIT-RT-2775

Hanking Ties

- Wrap electrical cords for shipping and packaging
- Material: Polyethylene
- Color: Natural

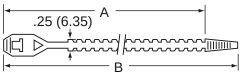

Max. Bundle Diameter Inch (mm)	Dimension Inch (mm) A	 B	Digi-Key Part No.	Price Per Package 100	 1,000	Richco Part No.
.9 (22.86)	3.2 (81.28)	3.9 (99.06)	RP701-ND	21.38	128.30	HT-3.9
1.4 (35.56)	5.2 (132.08)	5.9 (149.86)	RP703-ND	26.87	161.24	HT-5.9

Beaded Ties

- Easy to install and release
- Material: Nylon 6/6
- Color: Natural

Fig. 1

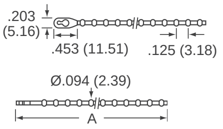

Fig. 2

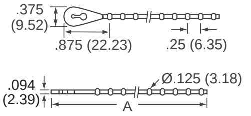

Fig.	Dim "A" (approx.) Inch (mm)	Digi-Key Part No.	Price Per Package 100	 1,000	Richco Part No.
1	4.0 (101.60)	RP731-ND	8.50	50.98	BT-4-01-NT
	5.0 (127.00)	RP732-ND	10.48	62.89	BT-5-01-NT
	6.0 (152.40)	RP733-ND	14.84	89.06	BT-6-01-NT
2	8.75 (222.25)	RP734-ND	20.56	123.37	BT-8-01-NT
	10.75 (273.05)	RP735-ND	25.66	153.97	BT-10-01-NT
	12.75 (323.85)	RP736-ND	29.28	175.68	BT-12-01-NT

Molded Nylon Insulators

(MNI Series)

- Use as screw insulators and in many bushing applications
- Lightweight
- High dielectric strength
- Resistant to corrosion and abrasion
- Material: Nylon 6/6, RMS-48
- Color: Natural

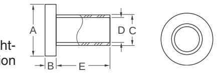

Screw Size	Approx. Met. Equiv.	Dimensions (Inch) A	 B	 C	 D	 E	Digi-Key Part No.	Pricing 25	 100	 1,000	Richco Part No.
#2	M2.2	.181	.047	.120	.090	.031	RP330-ND	5.83	20.00	120.02	MNI #2-2
		.181	.047	.120	.090	.063	RP331-ND	5.83	20.00	120.02	MNI #2-4
		.181	.047	.120	.090	.093	RP332-ND	5.56	19.06	114.34	MNI #2-6
		.181	.047	.120	.090	.125	RP333-ND	5.56	19.06	114.34	MNI #2-8
		.181	.047	.120	.090	.187	RP334-ND	5.56	19.06	114.34	MNI #2-12
		.181	.047	.120	.090	.250	RP335-ND	5.56	19.06	114.34	MNI #2-16
		.181	.047	.120	.090	.375	RP336-ND	5.56	19.06	114.34	MNI #2-24
#4	M3	.235	.047	.145	.115	.031	RP337-ND	5.83	20.00	120.02	MNI #4-2
		.252	.047	.140	.115	.046	RP338-ND	5.83	20.00	120.02	MNI #4-3
		.235	.047	.145	.115	.063	RP339-ND	5.83	20.00	120.02	MNI #4-4
		.252	.047	.140	.115	.084	RP340-ND	5.83	20.00	120.02	MNI #4-5
		.252	.047	.140	.115	.093	RP341-ND	5.83	20.00	120.02	MNI #4-6
		.235	.047	.145	.115	.125	RP342-ND	5.83	20.00	120.02	MNI #4-8
		.252	.047	.140	.115	.156	RP343-ND	5.83	20.00	120.02	MNI #4-10
		.235	.047	.145	.115	.187	RP344-ND	5.83	20.00	120.02	MNI #4-12
		.252	.047	.140	.115	.250	RP345-ND	5.83	20.00	120.02	MNI #4-16
		.235	.047	.145	.115	.375	RP346-ND	5.83	20.00	120.02	MNI #4-24
#5	M3	.370	.050	.236	.126	.050	RP347-ND	7.10	24.34	146.05	MNI #5.3
#6	M3.5	.290	.047	.170	.140	.031	RP348-ND	5.84	20.03	120.20	MNI #6-2
		.290	.047	.170	.140	.063	RP349-ND	5.84	20.03	120.20	MNI #6-4
		.290	.047	.170	.140	.093	RP350-ND	5.84	20.03	120.20	MNI #6-6
		.290	.047	.170	.140	.125	RP351-ND	5.84	20.03	120.20	MNI #6-8
		.290	.047	.170	.140	.187	RP352-ND	5.84	20.03	120.20	MNI #6-12
		.300	.047	.170	.138	.250	RP353-ND	5.84	20.03	120.20	MNI #6-16
		.290	.047	.170	.140	.375	RP354-ND	5.84	20.03	120.20	MNI #6-24
		.290	.047	.170	.140	.500	RP355-ND	5.57	19.08	114.48	MNI #6-32
#8	M4	.344	.063	.205	.173	.031	RP356-ND	6.13	21.02	126.11	MNI #8-2
		.344	.063	.205	.173	.063	RP357-ND	6.13	21.02	126.11	MNI #8-4
		.344	.063	.205	.173	.093	RP358-ND	6.13	21.02	126.11	MNI #8-6
		.344	.063	.205	.173	.125	RP359-ND	6.13	21.02	126.11	MNI #8-8
		.344	.063	.205	.173	.187	RP360-ND	6.13	21.02	126.11	MNI #8-12
		.344	.063	.205	.173	.250	RP361-ND	6.13	21.02	126.11	MNI #8-16
		.344	.063	.205	.173	.375	RP362-ND	6.13	21.02	126.11	MNI #8-24
		.344	.063	.205	.173	.500	RP363-ND	6.13	21.02	126.11	MNI #8-32
#10	M5	.399	.063	.260	.200	.031	RP364-ND	6.08	20.84	125.03	MNI #10-2
		.399	.063	.260	.200	.063	RP365-ND	6.38	21.88	131.26	MNI #10-4
		.399	.063	.260	.200	.093	RP366-ND	6.38	21.88	131.26	MNI #10-6
		.399	.063	.260	.200	.125	RP367-ND	6.38	21.88	131.26	MNI #10-8
		.399	.063	.260	.200	.187	RP368-ND	6.38	21.88	131.26	MNI #10-12
		.399	.063	.260	.200	.250	RP369-ND	6.38	21.88	131.26	MNI #10-16
		.399	.063	.260	.200	.375	RP370-ND	6.38	21.88	131.26	MNI #10-24
		.399	.063	.260	.200	.500	RP371-ND	6.38	21.88	131.26	MNI #10-32
1/4	M6	.513	.065	.312	.260	.031	RP376-ND	6.86	23.52	141.12	MNI 1/4-2
		.513	.065	.312	.260	.093	RP378-ND	7.20	24.70	148.18	MNI 1/4-6
		.513	.065	.312	.260	.125	RP379-ND	6.86	23.52	141.12	MNI 1/4-8
		.513	.065	.312	.260	.187	RP380-ND	6.86	23.52	141.12	MNI 1/4-12
		.513	.065	.312	.260	.250	RP381-ND	7.20	24.70	148.18	MNI 1/4-16
		.535	.065	.315	.260	.375	RP382-ND	7.20	24.70	148.18	MNI 1/4-24
		.513	.065	.312	.260	.500	RP383-ND	7.20	24.70	148.18	MNI 1/4-32
5/16	M8	.620	.063	.360	.320	.031	RP384-ND	7.17	24.58	147.49	MNI 5/16-2
		.620	.063	.360	.320	.063	RP385-ND	7.17	24.58	147.49	MNI 5/16-4
		.620	.063	.360	.320	.093	RP386-ND	7.53	25.81	154.84	MNI 5/16-6
		.620	.063	.360	.320	.125	RP387-ND	7.17	24.58	147.49	MNI 5/16-8
		.620	.063	.360	.320	.187	RP388-ND	7.17	24.58	147.49	MNI 5/16-12
		.620	.063	.360	.320	.250	RP389-ND	7.53	25.81	154.84	MNI 5/16-16
		.620	.063	.360	.320	.375	RP390-ND	7.17	24.58	147.49	MNI 5/16-24

Ducts and Accessories

Ducts

Features: • Made of rigid PVC • Rated for continuous use temperatures up to 50°C (122°F) • U.L. Flammability rating: V-0

Fig.	Dimension Inch (mm) Width	Dimension Inch (mm) Height	Mating Cover Part Number	Digi-Key Part No.	03”	06”	09”	12”	18”	24”
				Note: Last 2 boxes in Digi-Key part number represents number of inches Price Per Length (Inches)*						
F Type — White (WH) and Light Gray (LG)										
1	0.69 (17.5)	0.56 (14.2)	298-C5□□□□-ND	298-F5X5□□□□-ND	2.67	3.96	5.25	6.55	9.13	11.72
	0.69 (17.5)	1.09 (27.1)	298-C5□□□□-ND	298-F5X1□□□□-ND	2.91	4.44	5.97	7.51	10.57	13.64
	0.94 (23.9)	0.83 (21.0)	298-C75□□□□-ND	298-F75X75□□□□-ND	2.91	4.44	5.97	7.51	10.57	13.64
	0.94 (23.9)	1.58 (40.0)	298-C75□□□□-ND	298-F75X15□□□□-ND	3.40	5.43	7.46	9.49	13.54	17.60
	1.25 (31.8)	1.09 (27.1)	298-C1□□□□-ND	298-F1X1□□□□-ND	3.00	4.63	6.26	7.89	11.15	14.41
	1.25 (31.8)	1.59 (40.3)	298-C1□□□□-ND	298-F1X15□□□□-ND	3.43	5.49	7.54	9.60	13.71	17.82
	1.25 (31.8)	2.09 (53.0)	298-C1□□□□-ND	298-F1X2□□□□-ND	3.57	5.76	7.95	10.15	14.53	18.92
	1.75 (44.5)	1.09 (27.1)	298-C15□□□□-ND	298-F15X1□□□□-ND	3.24	5.10	6.96	8.83	12.55	16.28
	1.75 (44.5)	1.59 (40.3)	298-C15□□□□-ND	298-F15X15□□□□-ND	3.62	5.86	8.10	10.34	14.82	19.31
	1.75 (44.5)	2.09 (53.0)	298-C15□□□□-ND	298-F15X2□□□□-ND	3.79	6.21	8.63	11.05	15.89	20.73
	2.25 (57.2)	1.09 (27.1)	298-C2□□□□-ND	298-F2X1□□□□-ND	3.52	5.67	7.81	9.96	14.25	18.54
	2.25 (57.2)	1.59 (40.3)	298-C2□□□□-ND	298-F2X15□□□□-ND	3.73	6.09	8.45	10.81	15.52	20.24
	2.25 (57.2)	2.09 (53.0)	298-C2□□□□-ND	298-F2X2□□□□-ND	3.77	6.16	8.55	10.95	15.73	20.52
F Type — Adhesive Type — Light Gray (LG)										
1	0.69 (17.5)	0.56 (14.2)	298-C5□□□□-ND	298-F5X5□□□□-A-ND	3.03	4.68	6.33	7.98	11.28	14.58
	0.69 (17.5)	1.09 (27.1)	298-C5□□□□-ND	298-F5X1□□□□-A-ND	3.27	5.16	7.05	8.94	12.72	16.50
	0.94 (23.9)	0.83 (21.0)	298-C75□□□□-ND	298-F75X75□□□□-A-ND	3.28	5.18	7.09	8.99	12.80	16.61
	0.94 (23.9)	1.58 (40.0)	298-C75□□□□-ND	298-F75X15□□□□-A-ND	3.75	6.12	8.49	10.86	15.61	20.35
	1.25 (31.8)	1.09 (27.1)	298-C1□□□□-ND	298-F1X1□□□□-A-ND	3.41	5.45	7.48	9.52	13.59	17.66
	1.25 (31.8)	1.59 (40.3)	298-C1□□□□-ND	298-F1X15□□□□-A-ND	3.79	6.21	8.63	11.05	15.89	20.73
	1.25 (31.8)	2.09 (53.0)	298-C1□□□□-ND	298-F1X2□□□□-A-ND	3.93	6.48	9.03	11.58	16.68	21.78
	1.75 (44.5)	1.09 (27.1)	298-C15□□□□-ND	298-F15X1□□□□-A-ND	3.62	5.87	8.12	10.37	14.86	19.36
	1.75 (44.5)	1.59 (40.3)	298-C15□□□□-ND	298-F15X15□□□□-A-ND	3.97	6.56	9.15	11.74	16.93	22.11
	1.75 (44.5)	2.09 (53.0)	298-C15□□□□ND	298-F15X2□□□□-A-ND	4.16	6.94	9.73	12.51	18.08	23.65
	2.25 (57.2)	1.09 (27.1)	298-C2□□□□-ND	298-F2X1□□□□-A-ND	4.02	6.67	9.32	11.96	17.26	22.55
	2.25 (57.2)	1.59 (40.3)	298-C2□□□□-ND	298-F2X15□□□□-A-ND	4.20	7.03	9.85	12.68	18.33	23.98
	2.25 (57.2)	2.09 (53.0)	298-C2□□□□-ND	298-F2X2□□□□-A-ND	4.25	7.12	10.00	12.87	18.62	24.36
G Type — White (WH) and Light Gray (LG)										
2	0.69 (17.5)	0.56 (14.2)	298-C5□□□□-ND	298-G5X5□□□□-ND	2.67	3.96	5.25	6.55	9.13	11.72
	0.69 (17.5)	1.09 (27.1)	298-C5□□□□-ND	298-G5X1□□□□-ND	2.91	4.44	5.97	7.51	10.57	13.64
	0.94 (23.9)	0.83 (21.0)	298-C75□□□□-ND	298-G75X75□□□□-ND	2.91	4.44	5.97	7.51	10.57	13.64
	0.94 (23.9)	1.09 (27.1)	298-C75□□□□-ND	298-G75X1□□□□-ND	2.97	4.56	6.16	7.75	10.94	14.13
	0.94 (23.9)	1.58 (40.0)	298-C75□□□□-ND	298-G75X15□□□□-ND	3.40	5.43	7.46	9.49	13.54	17.60
	0.94 (23.9)	2.09 (53.0)	298-C75□□□□-ND	298-G75X2□□□□-ND	3.71	6.05	8.39	10.72	15.40	20.07
	1.25 (31.8)	1.09 (27.1)	298-C1□□□□-ND	298-G1X1□□□□-ND	3.00	4.63	6.26	7.89	11.15	14.41
	1.25 (31.8)	1.59 (40.3)	298-C1□□□□-ND	298-G1X15□□□□-ND	3.43	5.49	7.54	9.60	13.71	17.82
	1.25 (31.8)	2.09 (53.0)	298-C1□□□□-ND	298-G1X2□□□□-ND	3.57	5.76	7.95	10.15	14.53	18.92
	1.75 (44.5)	1.09 (27.1)	298-C15□□□□-ND	298-G15X1□□□□-ND	3.24	5.10	6.96	8.83	12.55	16.28
	1.75 (44.5)	1.59 (40.3)	298-C15□□□□-ND	298-G15X15□□□□-ND	3.62	5.86	8.10	10.34	14.82	19.31
	1.75 (44.5)	2.09 (53.0)	298-C15□□□□-ND	298-G15X2□□□□-ND	3.79	6.21	8.63	11.05	15.89	20.73
	2.25 (57.2)	1.09 (27.1)	298-C2□□□□-ND	298-G2X1□□□□-ND	3.52	5.67	7.81	9.96	14.25	18.54
	2.25 (57.2)	1.59 (40.3)	298-C2□□□□-ND	298-G2X15□□□□-ND	3.73	6.09	8.45	10.81	15.52	20.24
	2.25 (57.2)	2.09 (53.0)	298-C2□□□□-ND	298-G2X2□□□□-ND	3.77	6.16	8.55	10.95	15.73	20.52
G Type — Adhesive Type — White (WH) and Light Gray (LG)										
2	0.69 (17.5)	0.56 (14.2)	298-C5□□□□-ND	298-G5X5□□□□-A-ND	3.03	4.68	6.33	7.98	11.28	14.58
	0.69 (17.5)	1.09 (27.1)	298-C5□□□□-ND	298-G5X1□□□□-A-ND	3.27	5.16	7.05	8.94	12.72	16.50
	0.94 (23.9)	0.83 (21.0)	298-C75□□□□-ND	298-G75X75□□□□-A-ND+	3.28	5.18	7.09	8.99	12.80	16.61
	0.94 (23.9)	1.09 (27.1)	298-C75□□□□-ND	298-G75X1□□□□-A-ND	3.29	5.20	7.11	9.02	12.84	16.67
	0.94 (23.9)	1.58 (40.0)	298-C75□□□□-ND	298-G75X15□□□□-A-ND	3.75	6.12	8.49	10.86	15.61	20.35
	0.94 (23.9)	2.09 (53.0)	298-C75□□□□-ND	298-G75X2□□□□-A-ND	4.12	6.86	9.60	12.35	17.83	23.32
	1.25 (31.8)	1.09 (27.1)	298-C1□□□□-ND	298-G1X1□□□□-A-ND	3.41	5.45	7.48	9.52	13.59	17.66
	1.25 (31.8)	1.59 (40.3)	298-C1□□□□-ND	298-G1X15□□□□-A-ND	3.79	6.21	8.63	11.05	15.89	20.73
	1.25 (31.8)	2.09 (53.0)	298-C1□□□□-ND	298-G1X2□□□□-A-ND	4.00	6.63	9.25	11.88	17.13	22.38
	1.75 (44.5)	1.09 (27.1)	298-C15□□□□-ND	298-G15X1□□□□-A-ND	3.62	5.87	8.12	10.37	14.86	19.36
	1.75 (44.5)	1.59 (40.3)	298-C15□□□□-ND	298-G15X15□□□□-A-ND	3.97	6.56	9.15	11.74	16.93	22.11
	1.75 (44.5)	2.09 (53.0)	298-C15□□□□-ND	298-G15X2□□□□-A-ND	4.16	6.94	9.73	12.51	18.08	23.65
	2.25 (57.2)	1.09 (27.1)	298-C2□□□□-ND	298-G2X1□□□□-A-ND	4.02	6.67	9.32	11.96	17.26	22.55
	2.25 (57.2)	1.59 (40.3)	298-C2□□□□-ND	298-G2X15□□□□-A-ND	4.17	6.97	9.77	12.57	18.16	23.76
	2.25 (57.2)	2.09 (53.0)	298-C2□□□□-ND	298-G2X2□□□□-A-ND	4.25	7.12	10.00	12.87	18.62	24.36
H Type — Black (BL) and Light Gray (LG)										
3	4.25 (107.95)	4.10 (104.14)	298-HC□□□□-ND	298-H4X4□□□□-ND	6.95	12.53	18.10	23.68	34.83	45.98

+ Not available in white * Call Digi-Key for pricing of larger quantities

How to Select a Base Number:

#1 = Select 2 letter code for first □□ in Digi-Key Part No. which represents color of your choice: **WH**=White, **LG**=Light Gray, **BL**=Black.

#2 = Select 2 digit code for second □□ in Digi-Key Part No. for your choice of available length.

Example Part Number:

298-F5X5□□□□-A-ND

Optional for Adhesive only

#1 Color	
WH	White
LG	Light Gray
BL	Black

#2 Available Lengths (inches)*		
03	06	09
12	18	24
36	72	—

*** Length Tolerance ±1/8”**

Fig. 1

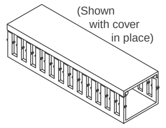
(Shown with cover in place)

Fig. 2

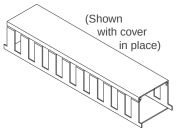
(Shown with cover in place)

Fig. 3

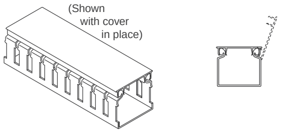
(Shown with cover in place)

Fig. 4

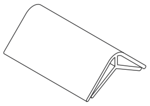

Fig. 5

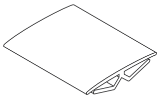

Fig. 6

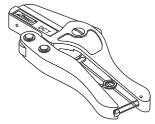

Fig. 7

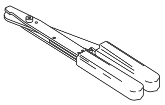

Covers

Inch (mm) Width	Digi-Key Part No.	03”	06”	09”	12”	18”	24”
	Note: Last 2 boxes in Digi-Key part number represents number of inches Price Per Length (Inches)*						
F and G Type — White (WH) and Light Gray (LG)							
0.69 (17.5)	298-C5□□□□-ND	1.79	2.21	2.63	3.05	3.89	4.73
0.94 (23.9)	298-C75□□□□-ND	1.83	2.28	2.74	3.19	4.10	5.01
1.25 (31.8)	298-C1□□□□-ND	1.83	2.28	2.74	3.19	4.10	5.01
1.75 (44.5)	298-C15□□□□-ND	1.95	2.53	3.11	3.69	4.84	6.00
2.25 (57.2)	298-C2□□□□-ND	2.08	2.78	3.48	4.18	5.58	6.99
H Type — Black (BL) and Light Gray (LG)							
4.25 (107.95)	298-HC4□□□□-ND	2.86	4.35	5.83	7.32	10.29	13.26

* Call Digi-Key for pricing of larger quantities

Corners

Available only in Light Gray (LG)

Fig.	For Duct Height Inch (mm)	Digi-Key Part No.	Price Each 1	20	100
4	1.00 (25.40)	298-CSP1LG-Q-ND	2.19	1.77	1.62
	1.50 (38.10)	298-CSP15LG-Q-ND	2.38	1.92	1.76
	2.00 (50.80)	298-CSP2LG-Q-ND	2.55	2.06	1.89
	3.00 (76.20)	298-CSP3LG-Q-ND	3.29	2.66	2.44
	4.00 (106.60)	298-CSP4LG-Q-ND	3.72	3.00	2.75

Joining Strips

Available only in Light Gray (LG)

Fig.	For Duct Height Inch (mm)	Digi-Key Part No.	Price Each 1	20	100
5	1.50 (38.10)	298-DJSP15LG-Q-ND	2.14	1.73	1.59
	2.00 (50.80)	298-DJSP2LG-Q-ND	2.30	1.86	1.70
	3.00 (76.20)	298-DJSP3LG-Q-ND	2.96	2.39	2.19
	4.00 (106.60)	298-DJSP4LG-Q-ND	3.35	2.70	2.48

Installation Tools

DCT: • Use to cut any Panduit duct or cover • Heavy duty steel tool incorporates a new, improved blade design which minimizes cutting force and blade wear. Provides a smooth burr-free cut on both wiring duct and cover.

DNT-100: • A heavy duty tool used to notch slotted wall wiring duct from the bottom of a slot to the base of the duct.

Fig.	Description	Digi-Key Part No.	Price Each 1	20	Mfg. Part No.
6	Hand held duct and cover cutting tool	298-9901-ND	102.44	97.32	DCT
–	Replacement blade and nylon insert for DCT	298-9902-ND	69.15	65.69	DCT-BLD
7	Hand held notching tool	298-9903-ND	124.95	118.71	DNT-100

Wire Ties and Accessories

Fig. 1

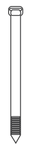

Fig. 2

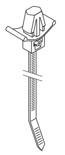

Fig. 3

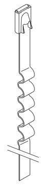

Fig. 4

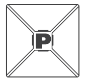

Fig. 5

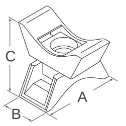

Fig. 6

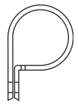

Fig. 7

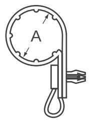

Fig. 8

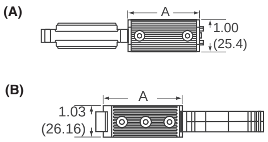

Fig. 9

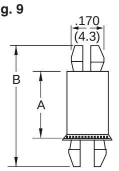

Fig. 10

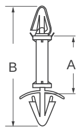

Fig. 11

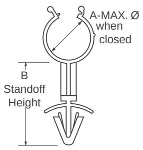

Fig. 12

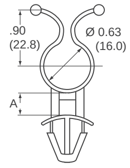

Fig. 13

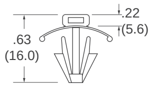

Fig. 14

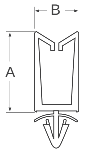

Fig. 15

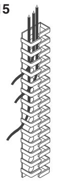

Fig. 16

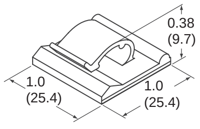

Fig.	Min. Loop Tensile Strength (Lbs)	Length Inch (mm)	Width Inch (mm)	Max. Bundle Diameter Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
				PAN-TY® Clamp Tie With Mounting Hole — Nylon				
1	18	4.3 (109.2)	0.100 (2.5)	0.75 (19.1)	298-1000-ND	100	33.37	PLC1M-S4-C
	40	6.1 (154.9)	0.135 (3.4)	1.25 (31.8)	298-1001-ND		33.55	PLC1.5I-S8-C
	50	7.9 (200.7)	0.190 (4.8)	1.84 (46.7)	298-1002-ND		35.15	PLC2S-S10-C
	50	12.0 (304.8)	0.190 (4.8)	3.00 (76.2)	298-1003-ND		81.16	PLC3S-S10-C
	50	15.0 (381.0)	0.190 (4.8)	4.00 (101.6)	298-1004-ND		91.74	PLC4S-S10-C
				PAN-TY® Clamp Tie With Mounting Hole — Weather Resistant — Black				
1	18	4.3 (109.2)	0.100 (2.5)	0.75 (19.1)	298-1005-ND	100	58.84	PLC1M-S4-C0
	40	6.1 (154.9)	0.135 (3.4)	1.25 (31.8)	298-1006-ND		42.40	PLC1.5I-S8-C0
	50	7.9 (200.7)	0.190 (4.8)	1.84 (46.7)	298-1007-ND		44.13	PLC2S-S10-C0
	50	12.0 (304.8)	0.190 (4.8)	3.00 (76.2)	298-1008-ND		94.08	PLC3S-S10-C0
	50	15.0 (381.0)	0.190 (4.8)	4.00 (101.6)	298-1009-ND		106.11	PLC4S-S10-C0
				PAN-TY® Cable Tie — Nylon				
1	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1016-ND	100	13.64	PLT.6SM-C
	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1017-ND	1,000	28.38	PLT.6SM-M
	18	3.1 (78.7)	0.090 (2.3)	0.68 (17.3)	298-1018-ND	100	14.27	PLT.7M-C
	18	3.1 (78.7)	0.090 (2.3)	0.68 (17.3)	298-1019-ND	1,000	26.99	PLT.7M-M
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1020-ND	100	15.35	PLT1M-C
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1021-ND	1,000	30.83	PLT1M-M
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1022-ND	100	17.78	PLT1.5I-C
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1023-ND	1,000	47.57	PLT1.5I-M
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1024-ND	100	19.40	PLT1.5M-C
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1025-ND	1,000	45.20	PLT1.5M-M
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1026-ND	100	26.78	PLT2I-C
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1027-ND	1,000	60.63	PLT2I-M
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1028-ND	100	21.37	PLT2M-C
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1029-ND	1,000	46.32	PLT2M-M
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1030-ND	100	22.45	PLT2S-C
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1031-ND	1,000	63.78	PLT2S-M
	40	11.4 (289.6)	0.145 (3.7)	3.00 (76.2)	298-1032-ND	100	33.03	PLT3I-C
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1033-ND	100	45.33	PLT3S-C
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1034-ND	1,000	169.31	PLT3S-M
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1035-ND	100	51.60	PLT4S-C
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1036-ND	1,000	189.20	PLT4S-M
	50	17.5 (445.0)	0.190 (4.8)	5.00 (127.0)	298-1360-ND	100	77.42	PLT5S-C
	50	17.5 (445.0)	0.190 (4.8)	5.00 (127.0)	298-1361-ND	1,000	267.69	PLT5S-M
	120	21.9 (556.0)	0.300 (7.6)	6.00 (152.0)	298-1366-ND	100	76.68	PLT6LH-L
	120	21.9 (556.0)	0.300 (7.6)	6.00 (152.0)	298-1367-ND	100	59.69	PLT6LH-C
	120	24.7 (627.0)	0.300 (7.6)	7.00 (178.0)	298-1368-ND	50	63.87	PLT7LH-L
	120	24.7 (627.0)	0.300 (7.6)	7.00 (178.0)	298-1369-ND	50	48.51	PLT7LH-C
	120	27.6 (701.0)	0.300 (7.6)	8.00 (203.0)	298-1372-ND	50	77.35	PLT8LH-L
	120	27.6 (701.0)	0.300 (7.6)	8.00 (203.0)	298-1373-ND	100	124.40	PLT8LH-C
				PAN-TY® Push Mount — Nylon				
1	40	6.1 (156.0)	0.135 (3.4)	1.25 (32.0)	298-1357-ND	1,000	157.97	PLP1.5I-M
	50	7.9 (200.0)	0.180 (4.6)	1.75 (45.0)	298-1358-ND	100	40.81	PLP2S-C
	50	7.9 (200.0)	0.180 (4.6)	1.75 (45.0)	298-1359-ND	1,000	184.58	PLP2S-M
	40	6.1 (156.0)	0.135 (3.4)	1.25 (32.0)	298-1377-ND	100	35.24	PLP1.5I-C
				PAN-TY® Wing Push Mount — Nylon				
2	40	6.0 (152.0)	0.135 (3.4)	1.25 (32.0)	298-1349-ND	100	37.45	PLWP1.5I-C
	40	6.0 (152.0)	0.135 (3.4)	1.25 (32.0)	298-1350-ND	500	101.90	PLWP1.5I-D
	18	4.3 (109.0)	0.098 (2.5)	0.87 (22.0)	298-1351-ND	100	33.08	PLWP1M-C
	18	4.3 (109.0)	0.098 (2.5)	0.87 (22.0)	298-1352-ND	500	94.96	PLWP1M-D
	50	5.2 (132.0)	0.190 (4.8)	1.00 (25.0)	298-1353-ND	100	39.65	PLWP1S-C
	50	5.2 (132.0)	0.190 (4.8)	1.00 (25.0)	298-1354-ND	500	103.16	PLWP1S-D
	50	7.8 (198.0)	0.190 (4.8)	1.75 (45.0)	298-1355-ND	100	45.67	PLWP2S-C
	50	7.8 (198.0)	0.190 (4.8)	1.75 (45.0)	298-1356-ND	500	110.17	PLWP2S-D
				PAN-TY® Cable Tie — Weather Resistant — Black				
1	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1037-ND	100	18.79	PLT.6SM-C0
	12	2.8 (71.1)	0.070 (1.8)	0.60 (15.2)	298-1038-ND	1,000	40.50	PLT.6SM-M0
	18	3.1 (78.7)	0.090 (2.3)	0.68 (17.3)	298-1039-ND	1,000	37.33	PLT.7M-M0
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1040-ND	100	20.13	PLT1M-C0
	18	3.9 (99.1)	0.098 (2.5)	0.87 (22.1)	298-1041-ND	1,000	48.27	PLT1M-M0
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1042-ND	100	21.86	PLT1.5I-C0
	40	5.6 (142.2)	0.142 (3.6)	1.38 (35.1)	298-1043-ND	1,000	64.31	PLT1.5I-M0
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1044-ND	100	22.34	PLT1.5M-C0
	18	5.6 (142.2)	0.098 (2.5)	1.25 (31.8)	298-1045-ND	1,000	64.95	PLT1.5M-M0
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1046-ND	100	32.21	PLT2I-C0
	40	8.0 (203.2)	0.142 (3.6)	2.00 (50.8)	298-1047-ND	1,000	85.50	PLT2I-M0
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1048-ND	100	28.42	PLT2M-C0
	18	8.0 (203.2)	0.098 (2.5)	2.00 (50.8)	298-1049-ND	1,000	69.61	PLT2M-M0
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1050-ND	100	23.98	PLT2S-C0
	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1051-ND	1,000	71.21	PLT2S-M0
	40	11.4 (289.6)	0.145 (3.7)	3.00 (76.2)	298-1052-ND	100	44.13	PLT3I-C0
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1053-ND	100	48.60	PLT3S-C0
	50	11.5 (292.1)	0.190 (4.8)	3.00 (76.2)	298-1054-ND	1,000	201.18	PLT3S-M0
1	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1055-ND	100	54.11	PLT4S-C0
	50	14.5 (368.3)	0.190 (4.8)	4.00 (101.6)	298-1056-ND	1,000	213.78	PLT4S-M0
	50	17.5 (445.0)	0.190 (4.8)	5.00 (127.0)	298-1362-ND	100	85.78	PLT5S-C0
	50	17.5 (445.0)	0.190 (4.8)	5.00 (127.0)	298-1363-ND	1,000	341.31	PLT5S-M0
	120	21.9 (556.0)	0.300 (7.6)	6.00 (152.0)	298-1364-ND	50	65.48	PLT6LH-L0
	120	21.9 (556.0)	0.300 (7.6)	6.00 (152.0)	298-1365-ND	50	54.07	PLT6LH-C0
	120	24.7 (627.0)	0.300 (7.6)	7.00 (178.0)	298-1370-ND	100	100.41	PLT7LH-L0
	120	24.7 (627.0)	0.300 (7.6)	7.00 (178.0)	298-1371-ND	100	82.19	PLT7LH-C0
	120	27.6 (701.0)	0.300 (7.6)	8.00 (203.0)	298-1374-ND	100	130.46	PLT8LH-L0
	120	27.6 (701.0)	0.300 (7.6)	8.00 (203.0)	298-1375-ND	100	99.33	PLT8LH-C0
				BARB-TY® Cable Tie — Nylon Tie With Metal Clip				
1	18	4.0 (101.6)	0.095 (2.4)	0.90 (22.9)	298-1063-ND	100	15.51	BT1M-C
	40	6.1 (154.9)	0.141 (3.6)	1.50 (38.1)	298-1064-ND	100	17.94	BT1.5I-C
	40	8.0 (203.2)	0.141 (3.6)	2.00 (50.8)	298-1065-ND	100	27.05	BT2I-C
	40	11.1 (281.9)	0.141 (3.6)	3.00 (76.2)	298-1066-ND	100	33.35	BT3I-C
	40	14.3 (363.2)	0.141 (3.6)	4.00 (101.6)	298-1067-ND	100	47.06	BT4I-C
	50	8.0 (203.2)	0.185 (4.7)	2.00 (50.8)	298-1068-ND	100	22.67	BT2S-C
	50	11.2 (284.5)	0.185 (4.7)	3.00 (76.2)	298-1069-ND	100	46.25	BT3S-C
	50	14.4 (365.8)	0.185 (4.7)	4.00 (101.6)	298-1070-ND	100	52.12	BT4S-C
	18	6.1 (154.9)	0.095 (2.4)	1.50 (38.1)	298-1071-ND	100	19.99	BT1.5M-C
	18	7.7 (195.6)	0.095 (2.4)	2.00 (50.8)	298-1072-ND	100	21.59	BT2M-C
	18	14.0 (355.6)	0.095 (2.4)	4.00 (101.6)	298-1074-ND	100	31.47	BT4M-C
	120	18.1 (459.7)	0.275 (7.0)	5.00 (127.0)	298-1075-ND	50	48.15	BT5LH-L
	120	21.2 (538.5)	0.275 (7.0)	6.00 (152.4)	298-1076-ND	50	58.70	BT6LH-L
	120	24.4 (619.8)	0.275 (7.0)	7.00 (177.8)	298-1077-ND	50	65.78	BT7LH-L
	120	27.5 (698.5)	0.275 (7.0)	8.00 (203.2)	298-1078-ND	50	79.66	BT8LH-L
	120	30.7 (799.8)	0.275 (7.0)	9.00 (228.6)	298-1079-ND	50	80.94	BT9LH-L
				BARB-TY® Cable Tie — Weather Resistant Tie With Metal Clip — Black				
1	18	4.0 (101.6)	0.095 (2.4)	0.90 (22.9)	298-1080-ND	100	20.15	BT1M-C0
	40	6.1 (154.9)	0.141 (3.6)	1.50 (38.1)	298-1081-ND	100	22.05	BT1.5I-C0
	40	8.0 (203.2)	0.141 (3.6)	2.00 (50.8)	298-1082-ND	100	32.50	BT2I-C0
	40	11.1 (281.9)	0.141 (3.6)	3.00 (76.2)	298-1083-ND	100	44.52	BT3I-C0
	40	14.3 (363.2)	0.141 (3.6)	4.00 (101.6)	298-1084-ND	100	58.65	BT4I-C0
	50	8.0 (203.2)	0.185 (4.7)	2.00 (50.8)	298-1085-ND	100	24.22	BT2S-C0
	50	11.2 (284.5)	0.185 (4.7)	3.00 (76.2)	298-1086-ND	100	49.56	BT3S-C0
	50	14.4 (365.8)	0.185 (4.7)	4.00 (101.6)	298-1087-ND	100	55.74	BT4S-C0
	18	6.1 (154.9)	0.095 (2.4)	1.50 (38.1)	298-1088-ND	100	23.43	BT1.5M-C0
	18	7.7 (195.6)	0.095 (2.4)	2.00 (50.8)	298-1089-ND	100	27.46	BT2M-C0
	18	14.0 (355.6)	0.095 (2.4)	4.00 (101.6)	298-1091-ND	100	41.76	BT4M-C0
	120	18.1 (459.7)	0.275 (7.0)	5.00 (127.0)	298-1092-ND	50	55.24	BT5LH-L0
	120	21.2 (538.5)	0.275 (7.0)	6.00 (152.4)	298-1093-ND	50	67.45	BT6LH-L0
	120	24.4 (619.8)	0.275 (7.0)	7.00 (177.8)	298-1094-ND	50	76.88	BT7LH-L0
	120	27.5 (698.5)	0.275 (7.0)	8.00 (203.2)	298-1095-ND	50	92.53	BT8LH-L0
	120	30.7 (779.8)	0.275 (7.0)	9.00 (228.6)	298-1096-ND	50	100.14	BT9LH-L0
				PAN-TY® Releasable Tie — Nylon				
1	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1057-ND	100	40.83	PRT2S-C
		11.5 (292.1)		3.00 (76.2)	298-1058-ND		71.17	PRT3S-C
		14.5 (368.3)		4.00 (101.6)	298-1059-ND		84.09	PRT4S-C
				PAN-TY® Releasable Tie — Weather Resistant — Black				
1	50	7.4 (188.0)	0.190 (4.8)	1.88 (47.8)	298-1060-ND	100	43.26	PRT2S-C0
		11.5 (292.1)		3.00 (76.2)	298-1061-ND		79.59	PRT3S-C0
		14.5 (368.3)		4.00 (101.6)	298-1062-ND		92.33	PRT4S-C0
				PAN-TY® Marker Tie With Write On Area — Nylon				
1	18	4.3 (109.2)	0.098 (2.5)	0.87 (22.1)	298-1010-ND	100	34.12	PLF1M-C
	18	3.9 (99.1)		0.75 (19.1)	298-1011-ND		35.43	PLM1M-C
	50	7.4 (188.0)		1.75 (45.0)	298-1012-ND		67.01	PLM2S-C
				PAN-TY® Marker Tie With Write On Area — Weather Resistant — Black				
1	18	4.3 (109.2)	0.098 (2.5)	0.87 (22.1)	298-1013-ND	100	47.01	PLF1M-C0
	18	3.9 (99.1)		0.75 (19.1)	298-1014-ND		46.12	PLM1M-C0
	50	7.4 (188.0)		1.75 (45.0)	298-1015-ND		81.64	PLM2S-C0
				Cushion Sleeve For Use With Metal Locking Tie — Black				
—	—	100ft. (30.48m)	0.330 (8.0)	—	298-1103-ND	1 Reel	188.61	PCSS-B-CR
			0.470 (12.0)		298-1104-ND		231.56	PCSH-B-CR
				TAK TY® (VELCRO®*) Easy Release And Reuse Brand Cable Tie — Black				
1	50	12.0 (304.8)	0.75 (19.1)	3.00 (76.2)	298-1108-ND	10	19.12	HLC3S-X0
	50	18.0 (457.2)	0.75 (19.1)	5.00 (127.0)	298-1109-ND	10	23.43	HLC5S-X0
	50	6.0 (152.4)	0.75 (19.1)	1.50 (38.1)	298-1110-ND	10	11.52	HLS1.5S-X0
	50	12.0 (304.8)	0.75 (19.1)	3.00 (76.2)	298-1111-ND	10	19.21	HLS3S-X0
	50	18.0 (457.2)	0.75 (19.1)	5.00 (127.0)	298-1112-ND	10	27.99	HLS5S-X0
	40	8.0 (203.2)	0.50 (12.7)	1.90 (48.3)	298-1113-ND	10	13.28	HLT2I-X0
	40	12.0 (304.8)	0.50 (12.7)	3.20 (81.3)	298-1114-ND	10	17.25	HLT3I-X0
	50	15ft. (4.572m)	0.75 (19.1)	Various	298-1115-ND	1 Reel	18.42	HLS-15R0

* VELCRO is a registered trademark of the Velcro Companies

(Continued)

Wire Ties and Accessories *(Cont.)*

Fig.	Max. Bundle Diameter Inch (mm)	Length Inch (mm)	Thickness & Width In. (mm)	Min. Loop Tensile Strength Lbs.	Recommend Installation Tools	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Metal Locking Tie — Stainless Steel									
1	1.00 (25.4)	5.0 (127.0)	.010 x .18 (.25 x 4.4)	100	GS4MT, ST2MT or HTMT	298-1100-ND	100	70.96	MLT1S-CP
	2.00 (50.8)	7.9 (200.7)				298-1101-ND		72.59	MLT2S-CP
	4.00 (101.6)	14.2 (360.7)				298-1102-ND		85.19	MLT4S-CP
WAVE-TY™ Superior Grip Stainless Steel Ties									
3	2.70 (70)	10.2 (259)	.010 x.31 (.25 x 7.9)	200 Min.	GS4MT ST2MT or HTMT	298-1330-ND	50	56.97	MLT2.7WH-LP
	4.00 (102)	14.2 (361)				298-1331-ND		61.33	MLT4WH-LP
	6.00 (152)	20.5 (521)				298-1332-ND		91.85	MLT6WH-LP
	8.00 (203)	26.8 (631)				298-1333-ND		118.47	MLT8WH-LP
	10.00 (254)	33.0 (838)				298-1334-ND		148.09	MLT10WH-LP

Fig.	Length Inch (mm)	Width Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Tie Holder With Adhesive — Nylon						
4	0.75 (19.1)	0.75 (19.1)	298-1116-ND	100	84.73	ABMM-A-C
	1.00 (25.4)	1.00 (25.4)	298-1118-ND	100	113.00	ABM100-A-C
	1.12 (28.6)	1.12 (28.6)	298-1268-ND	100	125.69	ABM112-A-C
	1.13 (28.7)	1.13 (28.7)	298-1117-ND	100	130.31	ABMS-A-C
	1.50 (38.1)	1.50 (38.1)	298-1119-ND	50	90.21	ABM3H-A-L

Fig.	Dimensions - Inch (mm) A	B	C	Pull Apart Force	Digi-Key Part No.	Price Each 1	50	100	Panduit Part No.
Swivel Cable Tie Mounts — Weather Resistant Black Nylon									
5	1.64 (41.66)	0.73 (18.54)	1.23 (31.24)	>250 lbs.	298-1307-ND	3.49	2.71	—	TMEH-X2-L0
	0.87 (22.10)	0.62 (15.75)	0.75 (19.05)	>120 lbs.	298-1308-ND	2.82	—	2.19	TM3-X2-C0

Fig.	Width Inch (mm)	Max. Bundle Dia. Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Cable Clamp — Nylon						
6	0.4 (9.5)	0.13 (3.2)	298-1120-ND	100	13.07	CCS12-S8-C
		0.25 (6.4)	298-1121-ND		13.60	CCS25-S8-C
		0.38 (9.7)	298-1122-ND		14.72	CCS38-S8-C
		0.50 (12.7)	298-1123-ND		15.61	CCS50-S8-C

Fig.	Dimension A Inch	Digi-Key Part No.	Price Each 1	100	500	Panduit Part No.
PAN-CLAMP™ Heavy Duty Fixed Diameter Clamps						
7	3/8	298-1299-ND	.61	.48	.39	PC038-H25D-C0
	1/2	298-1300-ND	.67	.53	.42	PC050-H25D-C0
	5/8	298-1301-ND	.72	.57	.46	PC062-H25D-C0
	3/4	298-1302-ND	.78	.61	.49	PC075-H25D-C0
	7/8	298-1303-ND	.84	.66	.53	PC087-H25D-C0
	1	298-1304-ND	.89	.70	.56	PC100-H25D-C0
	1 1/8	298-1305-ND	.95	.75	.60	PC112-H25D-C0
	1 1/4	298-1306-ND	1.00	.79	.63	PC125-H25D-C0

Fig.	Max. Cable Width Inch (mm)	Mounting Method	Dimension A Inch (mm)	Digi-Key Part No.	Price Each 1	50	100	Panduit Part No.
Type FCM Adhesive Mount For Stack Height up to .17" (4.3mm) - Nylon, Gray								
8A	1.0 (25.4)	Adh. Foam Tape	1.21 (30.7)	298-1309-ND	1.22	—	.96	FCM1-A-C14
	1.0 (25.4)	#6 Screw	1.21 (30.7)	298-1314-ND	1.16	—	.91	FCM1-S6-C14
	1.2 (30.5)	Adh. Foam Tape	1.37 (34.8)	298-1310-ND	1.51	—	1.19	FCM1.2-A-C14
	1.2 (30.5)	#6 Screw	1.37 (34.8)	298-1315-ND	1.25	—	.98	FCM1.2-S6-C14
	2.0 (50.8)	Adh. Foam Tape	2.22 (56.3)	298-1311-ND	1.36	—	1.06	FCM2-A-C14
	2.0 (50.8)	#6 Screw	2.22 (56.3)	298-1316-ND	1.29	—	1.02	FCM2-S6-C14
	3.25 (82.6)	Adh. Foam Tape	3.38 (85.9)	298-1312-ND	2.05	1.61	—	FCM3.25-A-L14
	3.25 (82.6)	#6 Screw	3.38 (85.9)	298-1317-ND	1.76	1.38	—	FCM3.25-S6-L14
Type FCH Adhesive Mount For Stack Height up to .25" (6.3mm) - Nylon, TELCO Gray								
8B	2.00 (50.8)	Adh. Foam Tape	2.5 (63.5)	298-1313-ND	2.11	—	1.64	FCH2-A-C14
		#6 Screw		298-1318-ND	1.91	—	1.48	FCH2-S6-C14

Fig.	Dimension A Inch (mm)	Diameter Inch (mm)	Dimension B Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Circuit Board Post — Nylon							
9	0.125 (3.2)	0.19 (4.7)	0.4 (10.3)	298-1128-ND	100	24.47	CBP12-C
	0.250 (6.4)		0.5 (13.5)	298-1129-ND		25.10	CBP25-C
	0.375 (9.5)		0.7 (16.6)	298-1130-ND		25.55	CBP37-C
	0.500 (12.7)		0.8 (19.8)	298-1131-ND		26.03	CBP50-C
	0.750 (19.1)		1.0 (26.2)	298-1132-ND		27.96	CBP75-C
	1.000 (25.4)		1.3 (32.5)	298-1133-ND		30.07	CBP100-C
Lock Circuit Board Support .156” / .187” (3.96 / 4.750mm) Diameter — Nylon							
10	0.25 (6.4)	0.156 / 0.187 (3.960 /4.750)	0.980 (24.900)	298-1134-ND	100	23.16	CBLS25-C
	0.50 (12.7)		1.230 (31.200)	298-1135-ND		26.10	CBLS50-C
	0.75 (19.1)		1.480 (37.500)	298-1136-ND		29.61	CBLS75-C

Fig.	Dim. A - Dia. Inch (mm)	Dim. B - Length Inch (mm)	Hole Diameter Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Wire Standoff — Nylon							
11	0.25 (6.4)	0.25 (6.4)	0.187 - 0.192 (4.7 to 4.9)	298-1124-ND	100	36.64	WS25-25-C
	0.50 (12.7)	0.25 (6.4)		298-1125-ND		38.43	WS25-50-C
	0.25 (6.4)	0.48 (12.2)		298-1126-ND		42.66	WS50-25-C
	0.48 (12.2)	0.48 (12.2)		298-1127-ND		44.84	WS50-50-C

Fig.	Dim. A Inch (mm)	Material/ Color	Mounting Method	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Twister Push Mounts							
12	0.79 (20.0)	Nylon, Natural	For Circuit Boards or Chassis: (0.64 - 2.67) thick in a .187” (4.7) dia. mtg. hole	298-1327-ND	100	25.35	TPM20-16-C
	1.18 (30.0)			298-1329-ND		26.47	TPM30-16-C

Fig.	Min. #’s Loop Tensile Strength	Length Inch (mm)	Diameter Inch (mm)	Hole Dia. Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Push Cable Tie Mount, STD — Natural								
13	18-50	0.6 (16.0)	0.230 (5.8)	0.25 (6.4)	298-1143-ND	100	44.02	PWMS-H25-C

Fig.	Max. Bundle Dia. - Inch (mm)	Dimensions A	B	Mat’l/ Color	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Push Mount Wire Saddle (Vertical)								
14	.42 x .18 (11 x 5)	.58 (14.7)	.60 (15.2)	Nylon Natural	298-1319-ND	100	11.03	VWS4218-C
	.42 x .40 (11 x 10)	.78 (19.8)			298-1320-ND		11.43	VWS4238-C
	.42 x .74 (11 x 19)	1.14 (29)			298-1321-ND		16.69	VWS4274-C
	.42 x 1.05 (11 x 27)	1.45 (36.8)			298-1322-ND		18.06	VWS42105-C

Fig.	Min. #’s Loop Tensile Strength	Tie Length Inch (mm)	Base Width Inch (mm)	Base Length Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Mount/Tie Combination — Natural								
1 & 4	50	7.3 (185.0)	0.190 (4.8)	1.85 (47.0)	298-1144-ND	25	41.63	PLA2S-A-Q

Length Feet (meters)	Diameter Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Spiral Wrap — Natural					
100 (30.48)	0.125 (3.2)	298-1137-ND	1 Reel	39.69	T12F-C
	0.250 (6.4)	298-1138-ND		53.55	T25F-C
	0.500 (12.7)	298-1139-ND		145.96	T50F-C
	0.750 (19.1)	298-1140-ND		177.78	T75F-C
Corrugated Loom Tubing — Black					
100 (30.48)	0.250 (6.4)	298-1141-ND	1 Reel	35.70	CLT25F-C20
	0.500 (12.7)	298-1142-ND		44.69	CLT50F-C20

Length Feet (meters)	Width Inch (mm)	Height Inch (mm)	Panel Thickness Inches (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Grommet Edging -— Natural							
100 (30.48)	0.106 (2.7)	0.12 (3.0)	.026 (.7) - .036 (.9)	298-1145-ND	1 Reel	32.94	GEE36F-C
	0.131 (3.3)	0.16 (4.1)	.036 (.9) - .062 (1.6)	298-1146-ND		35.07	GEE62F-C
	0.131 (3.3)	0.16 (4.1)	.036 (.9) - .062 (1.6)	298-1147-ND		47.32	GEE62FR-C
	0.169 (4.3)	0.19 (4.7)	.62 (1.6) - .099 (2.5)	298-1148-ND		60.21	GEE99FR-C

Fig.	Duct External Dimensions W x H - Inch (mm)	Std. Length Inch (mm)	Tape Width Inch (mm)	Digi-Key Part No.	Price Each 1	10	50	Panduit Part No.
Polypropylene Material - UL94V-2 Flammability Rating								
15	0.49 x 0.49 (12.5 x 12.5)	19.7 (500)	.24 (25)	298-4006-ND	5.37	4.34	3.97	FL12X12LG-A
	0.98 x 0.98 (25 x 25)		.58 (14.7)	298-4007-ND	8.73	7.05	6.45	FL25X25LG-A
	1.97 x 1.97 (50 x 50)		.58 (14.7) x 2	298-4008-ND	15.96	12.88	11.80	FL50X50LG-A

Fig.	Min. #’s Loop Tensile Strength	Clip Length Inch (mm)	Base Width Inch (mm)	Clip Height Inch (mm)	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Adhesive Backed Cord Clips — Nylon								
16	50	1.00 (25.4)	1.00 (25.4)	.38 (9.7)	298-1376-ND	100	71.86	ACC38-A-C

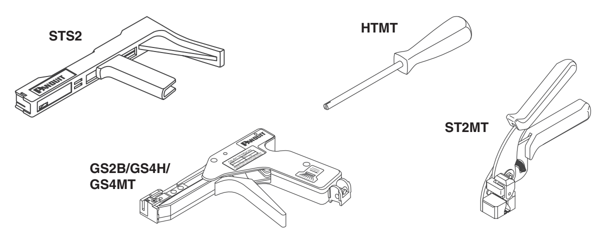

Description	Digi-Key Part No.	Price Each	Panduit Part No.
Tools			
Gun Cable Tie Tool - Black Handle, Tensile Strength: ≤ 50 lbs.	298-1097-ND	26.39	STS2
Gun Cable Tie Tool - Black Plastic & Metal Body, Tensile Strength: ≤ 50 lbs.	298-1098-ND	204.22	GS2B
Gun Cable Tie Tool - Red Handle & Metal Body, Tensile Strength: ≤ 50 lbs.	298-1099-ND	349.95	GS4H
Stainless Stl. Locking Tie Tool - Screwdriver Type, For Tension/Coil Tail of Tie	298-1105-ND	19.00	HTMT
Stainless Steel Locking Tie Tool - Ratchet Type, To Control Tension & Cutoff	298-1106-ND	333.46	ST2MT
Stainless Steel Locking Tie Tool - Gun Type	298-1107-ND	648.35	GS4MT

BIVAR Opto

Light Pipes

Fig. 1

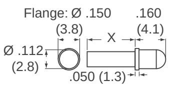

Fig. 2

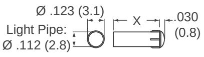

Fig. 3

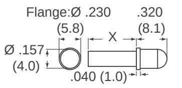

FEATURES:

PLP1 and PLP2 Series: • Protects circuits from ESD • Use with BivarOpto SM or Through-hole Series LEDs • PLP1 Series panel light pipes press fits into panel

PLP5 Series: • Dual-lens geometry • Improved lighting intensity • Press fits into panel

Figure	Dimension X Inch (mm)	Digi-Key Part No.	Price Each 1	10	100	Bivar Opto Part No.
		PLP1 Series				
1	.125 (3.2)	492-1148-ND	.73	.41	.30	PLP1-125
	.250 (6.4)	492-1149-ND	.73	.41	.30	PLP1-250
	.500 (12.7)	492-1150-ND	.73	.41	.30	PLP1-500
	.750 (19.0)	492-1151-ND	.73	.41	.30	PLP1-750
		PLP2 Series				
2	.125 (3.2)	492-1152-ND	.73	.41	.30	PLP2-125
	.250 (6.4)	492-1153-ND	.73	.41	.30	PLP2-250
	.500 (12.7)	492-1154-ND	.73	.41	.30	PLP2-500
	.750 (19.0)	492-1155-ND	.73	.41	.30	PLP2-750
		PLP5 Series				
3	.125 (3.2)	492-1141-ND	.73	.41	.30	PLP5-125
	.250 (6.4)	492-1142-ND	.73	.41	.30	PLP5-250
	.500 (12.7)	492-1143-ND	.73	.41	.30	PLP5-500
	.750 (19.0)	492-1144-ND	.73	.41	.30	PLP5-750
	1.00 (25.4)	492-1145-ND	.73	.41	.30	PLP5-1000
	1.25 (31.8)	492-1146-ND	.73	.41	.30	PLP5-1250
	1.50 (38.1)	492-1147-ND	.73	.41	.30	PLP5-1500

LED Modules

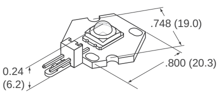

FEATURES:

- **Lens Appearance:** Water Clear
- **Viewing Angle:** 100°

Dominant Wave Length λd (nm)			Electro-Optical Data @ 350mA							
			Vf (V)	Lum Flux (lm)		Digi-Key	Price Each			Bivar Opto
Min.	Max.	Color	Typ.	Min.	Max.	Part No.	1	10	100	Part No.
465	475	Blue	3.3	6.3	23.5	492-1131-ND	15.02	12.63	11.54	LK-470-001
465	475	Blue	3.3	6.3	23.5	492-1136-ND†	15.02	12.63	11.54	LK-470-001-FC
520	535	Green	3.3	30.6	67.2	492-1132-ND	15.02	12.63	11.54	LK-530-001
520	535	Green	3.3	30.6	67.2	492-1137-ND†	15.02	12.63	11.54	LK-530-001-FC
585	595	Amber	2.3	30.6	67.2	492-1133-ND	10.40	8.75	7.99	LK-590-001
585	595	Amber	2.3	30.6	67.2	492-1138-ND†	10.40	8.75	7.99	LK-590-001-FC
620	635	Red	2.3	18.1	51.7	492-1134-ND	10.40	8.75	7.99	LK-630-001
620	635	Red	2.3	18.1	51.7	492-1139-ND†	10.40	8.75	7.99	LK-630-001-FC
4500K	8000K	White	3.3	23.5	67.2	492-1135-ND	15.02	12.63	11.54	LK-WHT-001
4500K	8000K	White	3.3	23.5	67.2	492-1140-ND†	15.02	12.63	11.54	LK-WHT-001-FC

† Field Connect

Molded and Self-Retaining LED Mounts

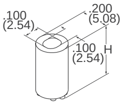

Features:

• One universal style for both T-1 (3mm) and T-1 3/4 (5mm) LEDs • Internal tapered divider prevents leads from shorting

Material Specifications:

• UL Rated 94V-0, Color: Black, 33% GF Polyphalamide (PPA)

Dimension H Inch (mm)	Digi-Key Part No.	Pricing 10	100	500	Bivar Opto Part No.
.15 (3.8)	492-1029-ND	1.50	9.99	36.96	LTM-150
.2 (5.1)	492-1030-ND	1.50	9.99	36.96	LTM-200
.25 (6.4)	492-1031-ND	1.55	10.30	38.11	LTM-250
.3 (7.6)	492-1032-ND	1.55	10.30	38.11	LTM-300
.35 (8.9)	492-1033-ND	1.55	10.30	38.11	LTM-350
.4 (10.2)	492-1034-ND	1.64	10.95	40.50	LTM-400
.45 (11.4)	492-1035-ND	1.64	10.95	40.50	LTM-450
.5 (12.7)	492-1036-ND	1.78	11.85	43.83	LTM-500

BIVAR

Crystal Insulators

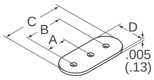

Material Specifications: Dupont, Mylar EL-21 with UL Rated 94V-2

Dimensions — Inch (mm) A	B	C	D	Use With	Digi-Key Part No.	Pricing 10	100	Bivar Part No.
—	.148 (3.8)	.325 (8.3)	.145 (3.7)	HC-80/U	492-1037-ND	.74	4.08	CI-148-028 SR
.074 (1.9)	.148 (3.8)	.325 (8.3)	.145 (3.7)	HC-80/U	492-1038-ND	.74	4.08	CI-148-028-3 SR
—	.192 (4.9)	.465 (11.8)	.219 (5.6)	HC-18/U, HC43/U, HC-49/U	492-1039-ND	.74	4.08	CI-192-028 SR
.096 (2.4)	.192 (4.9)	.465 (11.8)	.219 (5.6)	HC-18/U, HC43/U, HC-49/U	492-1040-ND	.74	4.08	CI-192-028-3 SR

Nylon Spacers

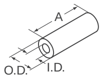

Material Specifications:
Natural Nylon, per ASTM D 4066 PA 225, UL Rated 94V-2

Screw Size	Dimensions — Inch (mm) Dim. A	ID	OD	Digi-Key Part No.	Pricing 10	100	Bivar Part No.
#2	1/16 (1.6)	.091 (2.3)	.187 (4.7)	492-1041-ND	.60	3.31	9913-062
	1/8 (3.2)	.091 (2.3)	.187 (4.7)	492-1042-ND	.60	3.31	9913-125
	3/16 (4.8)	.091 (2.3)	.187 (4.7)	492-1043-ND	.60	3.31	9913-187
	1/4 (6.4)	.091 (2.3)	.187 (4.7)	492-1044-ND	.60	3.31	9913-250
	5/16 (7.9)	.091 (2.3)	.187 (4.7)	492-1045-ND	.60	3.31	9913-312
	3/8 (9.5)	.091 (2.3)	.187 (4.7)	492-1046-ND	.65	3.57	9913-375
	7/16 (11.1)	.091 (2.3)	.187 (4.7)	492-1047-ND	.65	3.57	9913-437
	1/2 (12.7)	.091 (2.3)	.187 (4.7)	492-1048-ND	.65	3.57	9913-500
	9/16 (14.3)	.091 (2.3)	.187 (4.7)	492-1049-ND	.65	3.57	9913-562
	5/8 (15.9)	.091 (2.3)	.187 (4.7)	492-1050-ND	.70	3.85	9913-625
	3/4 (19.1)	.091 (2.3)	.187 (4.7)	492-1051-ND	.70	3.85	9913-750
	13/16 (20.6)	.091 (2.3)	.187 (4.7)	492-1052-ND	.74	4.08	9913-812
	7/8 (22.2)	.091 (2.3)	.187 (4.7)	492-1053-ND	.74	4.08	9913-875
	15/16 (23.8)	.091 (2.3)	.187 (4.7)	492-1054-ND	.74	4.08	9913-937
	1 (25.4)	.091 (2.3)	.187 (4.7)	492-1055-ND	.74	4.08	9913-1.000
#2	1/16 (1.6)	.091 (2.3)	.250 (6.4)	492-1056-ND	.60	3.31	9910-062
	1/8 (3.2)	.091 (2.3)	.250 (6.4)	492-1057-ND	.60	3.31	9910-125
	3/16 (4.8)	.091 (2.3)	.250 (6.4)	492-1058-ND	.60	3.31	9910-187
	1/4 (6.4)	.091 (2.3)	.250 (6.4)	492-1059-ND	.60	3.31	9910-250
	5/16 (7.9)	.091 (2.3)	.250 (6.4)	492-1060-ND	.60	3.31	9910-312
	3/8 (9.5)	.091 (2.3)	.250 (6.4)	492-1061-ND	.65	3.57	9910-375
	7/16 (11.1)	.091 (2.3)	.250 (6.4)	492-1062-ND	.65	3.57	9910-437
	1/2 (12.7)	.091 (2.3)	.250 (6.4)	492-1063-ND	.65	3.57	9910-500
	9/16 (14.3)	.091 (2.3)	.250 (6.4)	492-1064-ND	.65	3.57	9910-562
	5/8 (15.9)	.091 (2.3)	.250 (6.4)	492-1065-ND	.70	3.85	9910-625
	3/4 (19.1)	.091 (2.3)	.250 (6.4)	492-1066-ND	.70	3.85	9910-750
	13/16 (20.6)	.091 (2.3)	.250 (6.4)	492-1067-ND	.74	4.08	9910-812
	7/8 (22.2)	.091 (2.3)	.250 (6.4)	492-1068-ND	.74	4.08	9910-875
	15/16 (23.8)	.091 (2.3)	.250 (6.4)	492-1069-ND	.74	4.08	9910-937
	1 (25.4)	.091 (2.3)	.250 (6.4)	492-1070-ND	.74	4.08	9910-1.000
#4	1/16 (1.6)	.125 (3.2)	.187 (4.7)	492-1071-ND	.60	3.31	9908-062
	1/8 (3.2)	.125 (3.2)	.187 (4.7)	492-1072-ND	.60	3.31	9908-125
	3/16 (4.8)	.125 (3.2)	.187 (4.7)	492-1073-ND	.60	3.31	9908-187
	1/4 (6.4)	.125 (3.2)	.187 (4.7)	492-1074-ND	1.08	5.92	9908-250
	5/16 (7.9)	.125 (3.2)	.187 (4.7)	492-1075-ND	.60	3.31	9908-312
	3/8 (9.5)	.125 (3.2)	.187 (4.7)	492-1076-ND	.65	3.57	9908-375
	7/16 (11.1)	.125 (3.2)	.187 (4.7)	492-1077-ND	.65	3.57	9908-437
	1/2 (12.7)	.125 (3.2)	.187 (4.7)	492-1078-ND	.65	3.57	9908-500
	9/16 (14.3)	.125 (3.2)	.187 (4.7)	492-1079-ND	.65	3.57	9908-562
	5/8 (15.9)	.125 (3.2)	.187 (4.7)	492-1080-ND	.70	3.85	9908-625
	3/4 (19.1)	.125 (3.2)	.187 (4.7)	492-1081-ND	.70	3.85	9908-750
	13/16 (20.6)	.125 (3.2)	.187 (4.7)	492-1082-ND	.74	4.08	9908-812
	7/8 (22.2)	.125 (3.2)	.187 (4.7)	492-1083-ND	.74	4.08	9908-875
	15/16 (23.8)	.125 (3.2)	.187 (4.7)	492-1084-ND	.74	4.08	9908-937
	1 (25.4)	.125 (3.2)	.187 (4.7)	492-1085-ND	.74	4.08	9908-1.000
#4	1/16 (1.6)	.125 (3.2)	.250 (6.4)	492-1086-ND	.60	3.31	9911-062
	1/8 (3.2)	.125 (3.2)	.250 (6.4)	492-1087-ND	.60	3.31	9911-125
	3/16 (4.8)	.125 (3.2)	.250 (6.4)	492-1088-ND	.60	3.31	9911-187
	1/4 (6.4)	.125 (3.2)	.250 (6.4)	492-1089-ND	.60	3.31	9911-250
	5/16 (7.9)	.125 (3.2)	.250 (6.4)	492-1090-ND	.60	3.31	9911-312
	3/8 (9.5)	.125 (3.2)	.250 (6.4)	492-1091-ND	.65	3.57	9911-375
	7/16 (11.1)	.125 (3.2)	.250 (6.4)	492-1092-ND	.65	3.57	9911-437
	1/2 (12.7)	.125 (3.2)	.250 (6.4)	492-1093-ND	.65	3.57	9911-500
	9/16 (14.3)	.125 (3.2)	.250 (6.4)	492-1094-ND	.65	3.57	9911-562
	5/8 (15.9)	.125 (3.2)	.250 (6.4)	492-1095-ND	.70	3.85	9911-625
	3/4 (19.1)	.125 (3.2)	.250 (6.4)	492-1096-ND	.70	3.85	9911-750
	13/16 (20.6)	.125 (3.2)	.250 (6.4)	492-1097-ND	.74	4.08	9911-812
	7/8 (22.2)	.125 (3.2)	.250 (6.4)	492-1098-ND	.74	4.08	9911-875
	15/16 (23.8)	.125 (3.2)	.250 (6.4)	492-1099-ND	.74	4.08	9911-937
	1 (25.4)	.125 (3.2)	.250 (6.4)	492-1100-ND	.74	4.08	9911-1.000
#6	1/16 (1.6)	.147 (3.7)	.250 (6.4)	492-1101-ND	.60	3.31	9905-062
	1/8 (3.2)	.147 (3.7)	.250 (6.4)	492-1102-ND	.60	3.31	9905-125
	3/16 (4.8)	.147 (3.7)	.250 (6.4)	492-1103-ND	.60	3.31	9905-187
	1/4 (6.4)	.147 (3.7)	.250 (6.4)	492-1104-ND	.60	3.31	9905-250
	5/16 (7.9)	.147 (3.7)	.250 (6.4)	492-1105-ND	.60	3.31	9905-312
	3/8 (9.5)	.147 (3.7)	.250 (6.4)	492-1106-ND	.65	3.57	9905-375
	7/16 (11.1)	.147 (3.7)	.250 (6.4)	492-1107-ND	.65	3.57	9905-437
	1/2 (12.7)	.147 (3.7)	.250 (6.4)	492-1108-ND	.65	3.57	9905-500
	9/16 (14.3)	.147 (3.7)	.250 (6.4)	492-1109-ND	.65	3.57	9905-562
	5/8 (15.9)	.147 (3.7)	.250 (6.4)	492-1110-ND	.70	3.85	9905-625
	3/4 (19.1)	.147 (3.7)	.250 (6.4)	492-1111-ND	.70	3.85	9905-750
	13/16 (20.6)	.147 (3.7)	.250 (6.4)	492-1112-ND	.74	4.08	9905-812
	7/8 (22.2)	.147 (3.7)	.250 (6.4)	492-1113-ND	.74	4.08	9905-875
	15/16 (23.8)	.147 (3.7)	.250 (6.4)	492-1114-ND	.74	4.08	9905-937
	1 (25.4)	.147 (3.7)	.250 (6.4)	492-1115-ND	.74	4.08	9905-1.000
#8	1/16 (1.6)	.171 (4.3)	.250 (6.4)	492-1116-ND	.60	3.31	9912-062
	1/8 (3.2)	.171 (4.3)	.250 (6.4)	492-1117-ND	.60	3.31	9912-125
	3/16 (4.8)	.171 (4.3)	.250 (6.4)	492-1118-ND	.60	3.31	9912-187
	1/4 (6.4)	.171 (4.3)	.250 (6.4)	492-1119-ND	.60	3.31	9912-250
	5/16 (7.9)	.171 (4.3)	.250 (6.4)	492-1120-ND	.60	3.31	9912-312
	3/8 (9.5)	.171 (4.3)	.250 (6.4)	492-1121-ND	.65	3.57	9912-375
	7/16 (11.1)	.171 (4.3)	.250 (6.4)	492-1122-ND	.65	3.57	9912-437
	1/2 (12.7)	.171 (4.3)	.250 (6.4)	492-1123-ND	.65	3.57	9912-500
	9/16 (14.3)	.171 (4.3)	.250 (6.4)	492-1124-ND	.65	3.57	9912-562
	5/8 (15.9)	.171 (4.3)	.250 (6.4)	492-1125-ND	.70	3.85	9912-625
	3/4 (19.1)	.171 (4.3)	.250 (6.4)	492-1126-ND	.70	3.85	9912-750
	13/16 (20.6)	.171 (4.3)	.250 (6.4)	492-1127-ND	.74	4.08	9912-812
	7/8 (22.2)	.171 (4.3)	.250 (6.4)	492-1128-ND	.74	4.08	9912-875
	15/16 (23.8)	.171 (4.3)	.250 (6.4)	492-1129-ND	.74	4.08	9912-937
	1 (25.4)	.171 (4.3)	.250 (6.4)	492-1130-ND	.74	4.08	9912-1.000

PANDUIT®
ELECTRICAL GROUP

Thermal Transfer Printer and Labels

Handheld Thermal Transfer Printer – LS6

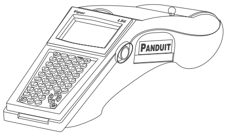

Fig. 1

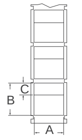

Fig. 2

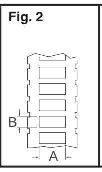

Fig. 3

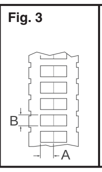

Fig. 4

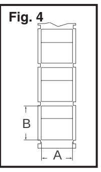

Description	Digi-Key Part No.	Roll Size	Price/ Pkg.	Panduit Part No.
VIPER™ LS6 Printer and Accessories				
Includes Printer, LS6-RWBLK Ribbon, Battery Pack, AC Adapter/Battery Charger, Hardside Case, Operator's Manual	298-1228-ND	1	821.94	LS6-KIT
Wax Ribbon, Black, 2"x100', for use with Self-Laminating and Heat Shrink Markers Listed Below	298-1230-ND	1	25.14	LS6-RWBLK
Resin Ribbon, Black 2"x100', for use with Component Labels Listed Below	298-1229-ND	1	25.14	LS6-RRBLK
Thermal Transfer Hybrid Ribbon, Black, 4.33" x 299', for use with all Panduit Thermal Transfer Materials	298-4001-ND	1	42.79	TTRH-BL
Replacement Battery Pack	298-1227-ND	1	104.84	LS6-BP
Replacement AC Adapter/Battery Charger	298-1226-ND	1	106.04	LS6-ACS
Pan-Mark for Windows Labeling Software on CD-ROM	298-4000-ND	1	345.61	PROG-WIN2CD
Includes ViperLink Software (CD) and 9 Pin Serial Cable for Connecting LS6 to PC	298-4002-ND	1	50.66	LS6-PCKIT
LS6 Cleaning Kit	298-4003-ND	1	14.72	LS6-CLN

Thermal Transfer Labels

Fig.	Label Size A x B x C (In.)	Cable O.D. Range (In.)	For THHN Cable Size	Digi-Key Part No.	Roll Size	Price/ Pkg.	Panduit Part No.
Self-Laminating Wire Markers – Vinyl							
1	0.50 x 0.75 x 0.38	0.12	12 AWG	298-1261-ND	500	31.63	TWS-6V
	0.50 x 1.00 x 0.38	0.12 – 0.20	12-10 AWG	298-1259-ND	400	31.19	TWS-4V
	0.50 x 1.25 x 0.50	0.16 – 0.24	8 AWG	298-1255-ND	350	38.19	TWS-1V
	1.00 x 0.75 x 0.38	0.12	12 AWG	298-1262-ND	250	25.59	TWS-7V
	1.00 x 1.00 x 0.38	0.12 – 0.20	12-10 AWG	298-1260-ND	250	30.42	TWS-5V
	1.00 x 1.25 x 0.50	0.16 – 0.24	8 AWG	298-1256-ND	250	39.04	TWS-2V
	1.00 x 2.50 x 0.75	0.24 – 0.56	6 AWG 2/0	298-1252-ND	100	23.32	TWS-10V
	1.50 x 1.25 x 0.50	0.16 – 0.24	8 AWG	298-1257-ND	250	40.10	TWS-3V
	1.50 x 2.50 x 0.75	0.24 – 0.56	6 AWG 2/0	298-1253-ND	100	30.29	TWS-11V
	2.00 x 1.50 x 0.50	0.16 – 0.32	8-6 AWG	298-1258-ND	250	52.13	TWS-40V
	1.50 x 4.00 x 1.00	0.32 – 0.96	4 AWG	298-4005-ND	100	36.19	TWS-13V

Fig.	Label Size A x B (In.)	Cable O. D. Range (In.)	For THHN Cable Size	Digi-Key Part No.	Roll Size	Price/ Pkg.	Panduit Part No.
Heat Shrink Wire Markers – 3:1 Flattened White Polyolefin							
2	1.00 x 0.34	0.06 – 0.18	18-10 AWG	298-1251-ND	100	44.51	THSW-7
	1.00 x 0.44	0.08 – 0.25	18-8 AWG	298-1248-ND	100	53.92	THSW-4
	1.00 x 0.84	0.17 – 0.50	8-1 AWG	298-1249-ND	100	91.95	THSW-5
3	0.50 x 0.25	0.04 – 0.13	18-12 AWG	298-1245-ND	200	39.98	THSW-1
	0.50 x 0.34	0.06 – 0.18	18-10 AWG	298-1250-ND	200	44.51	THSW-6
	0.50 x 0.44	0.08 – 0.25	18-8 AWG	298-1247-ND	200	53.92	THSW-3

Fig.	Label Size A x B	Material	Color	Digi-Key Part No.	Roll Size	Price/ Pkg.	Panduit Part No.
Component Labels							
4	0.65 x 0.20	Polyester	White	298-1243-ND	750	39.24	TC-19Y
	1.00 x 0.38	Polyester	White	298-1240-ND	500	34.83	TC-17Y
	1.00 x 0.50	Polyester	Silver	298-1232-ND	500	37.82	TC-10YS
	1.50 x 0.50	Polyester	White	298-1233-ND	500	38.79	TC-11Y
	2.00 x 0.25	Polyester	White	298-1237-ND	250	37.45	TC-16Y
	1.00 x 0.50	Vinyl Cloth	White	298-1231-ND	500	46.71	TC-10C
	1.00 x 0.75	Vinyl Cloth	White	298-4004-ND	250	29.49	TC-4C

Laser Printable Labels (Functions with most Desktop Laser Printers)

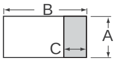

Label Size		Cable O.D. Range (In.)	For THHN Cable Size	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
A x B (In.)	C - Print Area (In.)						
Laser Self Laminated Wire Markers - White Polyester (Box)							
1.00 x 1.00	0.34	0.11 – 0.21	12-10 AWG	298-1162-ND	2,500	181.92	LJSL4-Y3-2.5
1.00 x 1.33	0.50	0.16 – 0.26	8-6 AWG	298-1163-ND	2,500	216.80	LJSL5-Y3-2.5
1.00 x 3.17	0.97	0.31 – 0.70	4-4/0 AWG	298-1164-ND	1,000	178.02	LJSL6-Y3-1
2.00 x 3.17	1.00	0.32 – 0.69	4-4/0 AWG	298-1169-ND	1,000	224.79	LJSL8-Y3-1
0.50 x 1.50	0.50	0.16 – 0.32	8-6 AWG	298-1174-ND	5,000	216.80	LJSL2-Y3-5
2.00 x 1.50	0.50	0.16 – 0.32	8-6 AWG	298-1175-ND	1,000	219.55	LJSL7-Y3-1

Label Size A x B (In.)	Material	Color	Digi-Key Part No.	Pkg. Size	Price/ Pkg.	Panduit Part No.
Laser Component Labels - Polyester (Box)						
1.50 x 0.25	Polyester	White	298-1165-ND	10,000	225.68	PLL-14-Y2-10
1.88 x 0.25	Polyester	White	298-1166-ND	10,000	288.67	PLL-15-Y2-10
3.00 x 0.38	Polyester	White	298-1167-ND	1,000	94.59	PLL-19-Y2-1
0.80 x 0.20	Polyester	White	298-1168-ND	10,000	184.96	PLL-20-Y2-10
0.38 x 0.38	Polyester	White	298-1170-ND	10,000	141.46	PLL-2-Y2-10
0.50 x 0.44	Polyester	White	298-1172-ND	10,000	223.76	PLL-31-Y2-10
0.65 x 0.20	Polyester	White	298-1173-ND	10,000	156.95	PLL-32-Y2-10
0.80 x 0.25	Polyester	White	298-1176-ND	10,000	184.96	PLL-5-Y2-10
1.00 x 0.38	Polyester	White	298-1177-ND	10,000	255.43	PLL-8-Y2-10
1.00 x 0.50	Polyester	White	298-1178-ND	10,000	309.55	PLL-9-Y2-10

LS7 Thermal Transfer Printer and Cassettes

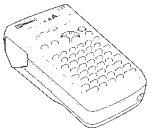

The LS7 Hand-Held Thermal Transfer printer is designed for fast and easy TIA/EIA-606-A compliant labeling.

Features and Benefits: • High quality labels that stay where you put them and won't smear • Fast loading cassettes and simple operation • Label cassette includes both label material and ribbon • Firmware designed specifically to meet data-comm market needs • Advanced programming allows you to specify legend spacing • Label materials developed for use on textured and curved surfaces • Repeat legend function • Advanced alpha and numeric serialization • Store up to 10 label files • Symbol library

Description	Digi-Key Part No.	Price Each	Panduit Part No.
LS7 Printer and Accessories			
Printer Kit: Includes 3/4" Non-Laminated Black/White Cassette, Hardside Carrying Case, Wrist Strap, 6 AA Alkaline Batteries, Label Separator Tool, and Operator's Manual	298-1338-ND	206.75	LS7
120VAC Adapter	298-1347-ND	49.97	LS7-ACS
Cleaning Cassette	298-1348-ND	33.31	LS7-CLN

Application	Width	Length	Color	Digi-Key Part No.	Price Each			Panduit Part No.
					1	5	25	
Laminated Label Cassettes								
110 Punchdown Blocks, Patch Panels	1/4" (6mm)	26.2' (8m)	Black/White	298-1339-ND	22.73	19.63	17.42	LS7-25-1
			Black/Clear	298-1340-ND	22.73	19.63	17.42	LS7-25-2
Faceplates, Junction Boxes, Patch Panels	3/8" (9mm)	26.2' (8m)	Black/White	298-1341-ND	24.90	21.51	19.09	LS7-38-1
			Black/Clear	298-1342-ND	24.90	21.51	19.09	LS7-38-2
Pathways, Racks, Spaces	1/2" (12mm)	26.2' (8m)	Black/White	298-1343-ND	24.90	21.51	19.09	LS7-50-1
			Black/Clear	298-1344-ND	24.90	21.51	19.09	LS7-50-2
Non-Laminated Label Cassettes								
Cables, Pathways, Racks, Spaces	3/4" (18mm)	26.2' (8m)	Black/White	298-1345-ND	28.15	24.32	21.58	LS7-75NL-1
			Black/Clear	298-1346-ND	28.15	24.32	21.58	LS7-75NL-2

Labels

Fig. 1

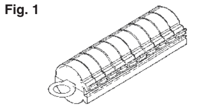

Fig. 2

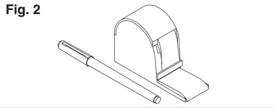

Standard Package	Legend	No. of Each Legend	Digi-Key Part No.	Price Each			Panduit Part No.
				1	10	50	
Wire Marker Books							
1 (10 pages)	0-9	45	298-1269-ND	19.52	17.53	15.54	PCMB-1
	A-Z, 0-15, +, -, /	10	298-1270-ND	19.52	17.53	15.54	PCMB-2
	1-45	10	298-1271-ND	19.52	17.53	15.54	PCMB-3
	1, 2, 3	150	298-1272-ND	19.52	17.53	15.54	PCMB-4
	1-15 16-90 A-Z, +, -, /, 0	6 4 2	298-1273-ND	19.52	17.53	15.54	PCMB-8
	1, 2, 3, A, B, C L1, L2, L3, T1, T2, T3	45 30	298-1274-ND	19.52	17.53	15.54	PCMB-9
	1-30	15	298-1275-ND	19.52	17.53	15.54	PCMB-11
	A-Z +, - Blank	15 8, 7 21	298-1276-ND	19.52	17.53	15.54	PCMB-12
	46-90	10	298-1277-ND	19.52	17.53	15.54	PCMB-14
1 (12 pages)	0-9 L1, L2, L3, T1, T2, T3	45 15	298-1278-ND	19.52	17.53	15.54	PCMB-25

Std. Pkg.	Write-on Area Dim. W x L - Inch (mm)	No. of Markers	Overall Size Inch (mm)	Digi-Key Part No.	Price Each			Panduit Part No.
					1	10	50	
Cable Marker Book for Self Laminating Wire Markers								
1 (10 pgs.)	1.00 x 0.75 (25.4x19.1)	60	1.00 x 3.00 (25.4x76.2)	298-1279-ND	24.34	21.86	19.38	PSCB-3
	1.00 x 1.00 (25.4x25.4)	30	1.00 x 5.00 (25.4x127)	298-1280-ND	24.34	21.86	19.38	PSCB-5
	0.50 x 0.63 (12.7x15.9)	180	0.50 x 1.50 (12.7x38.1)	298-1281-ND	24.34	21.86	19.38	PSCB-12
	1.50 x 0.75 (38.1x19.1)	40	1.50 x 3.00 (38.1x76.2)	298-1282-ND	24.34	21.86	19.38	PSCB-13

Fig.	Description	Digi-Key Part No.	Price Each			Panduit Part No.
			1	10	25	
Wire Marker Tape Dispensers						
1	0 - 9 Legends in Dispenser, 8" Black	298-1283-ND	36.92	33.32	30.35	PMD-0-9
	Empty Dispenser	298-1294-ND	13.47	12.16	11.07	PMD

Legend	Description	Digi-Key Part No.	Price Each			Panduit Part No.
			1	10	100	
Refill Wire Marker Tape- 8 Ft. Length						
0	Fits PMD Dispenser 298-1294-ND (sold above)	298-1284-ND	2.78	2.19	1.96	PMDR-0
1		298-1285-ND	2.78	2.19	1.96	PMDR-1
2		298-1286-ND	2.78	2.19	1.96	PMDR-2
3		298-1287-ND	2.78	2.19	1.96	PMDR-3
4		298-1288-ND	2.78	2.19	1.96	PMDR-4
5		298-1289-ND	2.78	2.19	1.96	PMDR-5
6		298-1290-ND	2.78	2.19	1.96	PMDR-6
7		298-1291-ND	2.78	2.19	1.96	PMDR-7
8		298-1292-ND	2.78	2.19	1.96	PMDR-8
9		298-1293-ND	2.78	2.19	1.96	PMDR-9

Fig.	Description	Std. Pkg.	Digi-Key Part No.	Price Each			Panduit Part No.
				1	5	25	
Dispenser Kit and Tape							
2	With PLDR-1 Tape, Write-on Area 1" x 1.5" (25.4 x 38.1)	1	298-1295-ND	28.45	25.55	22.65	PLD-1
	With PLDR-2 Tape, Write-on Area 1" x 3" (25.4 x 76.2)		298-1296-ND	28.45	25.55	22.65	PLD-2
Refill Blank Tape — Self-Laminated							
—	Write-on Area 1.00 x 0.38 (25.4 x 9.5) Overall-1.00 x 1.50 (25.4 x 38.1)	200/ roll	298-1297-ND	19.80	17.78	15.77	PLDR-1
—	Write-on Area 1.00 x 0.75 (25.4 x 19.1) Overall-1.00 x 3.00 (25.4 x 76.2)	100/ roll	298-1298-ND	19.80	17.78	15.77	PLDR-2

CITIZEN® Thermal Printers

THERMAL PRINTERS:

Use a non-impact method for printing. This is accomplished by using chemically treated thermal paper. Chemicals suspended in the paper react to heat generated by the print head to form dots that make up the characters or image. Citizen offers a thermal serial printer and a thermal line printer.

The serial printer uses a moving head that prints one character at a time, it is most suited for character printing, although the high speed model does support graphics. Its main benefit is low cost. Line printers have a fixed print head, printing one line at a time. It is suited for both high speed character and graphic printing. Its main benefits are higher definition graphic printing along with fewer moving parts.

INTERFACE BOARDS:

Acts as an interface between user's system and the thermal printer. Monitors temperature and paper status. Controls motor(s) and thermal head energy for optimal printing. Generates built in test pattern. Accepts both simplified Centronics or RS-232C (TTL only) interface.

NOTE: CBMA now markets the former Panasonic line of Thermal Printer Mechanisms. Please call Digi-Key for details.

Fig. 1 – Line Printer

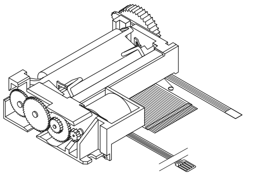

EPL1600 Series
- Compact size, light weight
- High resolution (8 dots/mm), high printing speed
- Operatable by batteries (4.2 to 8.5 volts)
- Low current consumption
- Semi-auto paper loading function

Note: Available in 58, 80, and 112mm paper widths

Fig. 2 – Line Printer

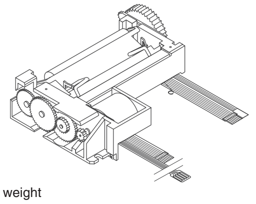

EPL1700 Series
- Compact size, light weight
- High resolution (8 dots/mm), high printing speed
- Semi-auto paper loading function
- Thick (label paper) paper printing possible

Note: Available in 58,80, and 112mm paper widths

Fig. 3 – Miniature Line Printer

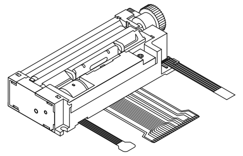

EPL1802S2 Series
- High speed printing
- Very small size
- Very light weight (40g)
- Low power consumption

Fig. 4 – Compact Line Printer

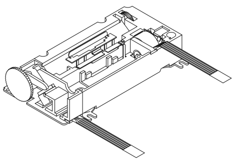

EPL1900 Series
- Compact size
- Low weight (55g)
- High reliability
- Easy maintenance

Note: Available with paper cutter (PT1034-ND)

Fig.	Print Method	Paper Width	Head Volt	Logic Volt	Print Speed (max.)	Char. / line	Head life	Size (mm)	Digi-Key Part No.	Price Each 1	10	100	250	Citizen Part No.
1	Line	80mm 112mm	5V	5V	400 dots-line/s max. 360 dots-line/s max.	36/72 52/104	5x10^{7}ulse/50km	101 x 52 x 20 147 x 54 x 20	471-1001-ND 471-1002-ND	127.76 115.53	117.81 106.54	109.40 98.93	102.51 92.71	EPL1602S3 EPL1603S4
2	Line	112mm	24V	5V	864 dots-line/s max.	54/108	5x10^{7} pulse/50km	147 x 54 x 20	471-1005-ND	128.21	118.23	109.79	102.88	EPL1703S4
3	Line	58mm	5V	5V	450 dots-line/s max.	24/48	1x10^{8} pulse/50km	72 x 32 x 15	471-1032-ND	120.24	110.88	102.96	96.48	EPL1802S2
4	Line	58mm	5V	5V	300 dots-line/s max.	24/36	5x10^{7} pulse/30km	82 x 41 x 15.8 82 x 41 x 25	471-1033-ND 471-1034-ND	40.93 70.37	37.75 64.90	35.05 60.27	32.85 56.47	EPL1902S2C EPL1904S2C

Interface Boards

EPLR1601Series
- Supports EPLR1600 series
- 364 built in character fonts
- ASCII JIS C6220 character codes
- Automatic loading
- Marker detection
- Bar code printing (UPC, JAN, EAN, CODE39, ITF, NW7)
- Operates on 5 volts EPLR1601

Description	Digi-Key Part No.	Price Each 1	10	100	250	Citizen Part No.
Interface Board for EPL1600 Series	471-1013-ND	128.36	118.37	109.91	103.00	EPLR1601
Interface Board for EPL1900 Series	471-1035-ND	208.75	192.50	178.75	167.50	EPLZR1901E
Power Cable for EPLR1601/1701 Interface Boards	471-1017-ND	8.02	7.40	6.87	6.44	EPLSRDSP303
Centronics Cable for EPLR1601/1701 Interface Boards	471-1018-ND	7.52	6.93	6.44	6.03	EPLSRDSP304
RS232 Cable for EPLR1601/1701 Interface Boards	471-1019-ND	5.85	5.39	5.01	4.69	EPLSRDSP305
Centronics Cable for EPTR2000L/H Interface Boards	471-1021-ND	5.90	5.44	5.05	4.74	EPLSRDSP276
EPLR1601 CPU Replacement Chip for User Designed Interfaces	471-1023-ND	24.80	22.87	21.24	19.90	EPLSAR1601
EPLR1701 CPU Replacement Chip for User Designed Interfaces	471-1024-ND	24.80	22.87	21.24	19.90	EPLSAR1701
EPLR1601/1701 Gate-array for User Designed Interfaces	471-1025-ND	10.44	9.63	8.94	8.38	EPLASR1101

NAKAGAWA MFG. (USA), INC. Thermal Paper

Quality thermal paper available in 58, 60, 80 and 112mm paper widths.

SPECIFICATIONS:

Paper core: 12mm

Paper length: 30M

Outer diameter: 55mm

End mark: red, 50cm from end of roll.

Paper weight: 65um

Print life: greater than 5 years when stored in a dark location, 25°C or less, 65% R.H. max.

Description	Digi-Key Part No.	Price Each 1	10	100	250	Nakagawa Part No.
58mm Thermal Printer Paper	PT1028-ND	2.08	1.66	1.46	1.39	EPT-58
60mm Thermal Printer Paper	PT1029-ND	2.43	1.94	1.70	1.62	EPL-60
80mm Thermal Printer Paper	PT1030-ND	2.73	2.18	1.91	1.83	EPT-80
112mm Thermal Printer Paper	PT1031-ND	2.93	2.34	2.05	1.96	EPL-112

CITIZEN® Thermal Printers

Specifications:

• **Printing Method:** Line thermal dot printing • **Printing Width:** 72mm/576 dots • **Dot Pitch:** 8 dots/mm • **Printing Speed:** 62.5mm/second {Maximum} (500 dot lines/second) • **Number of Columns:** 48 columns ***Font A:*** 48 columns; ***Font B:*** 64 columns • **Font Size:** 1.25mm x 3.00mm (***Font A:*** 12 x 24 dots); 0.88mm x 3.00mm (***Font B:*** 9 x 24 dots) • **Fonts:** Alphanumeric, International characters • **Bar-code Type:** UPC-A, JAN (EAN) 13 col./8 col., ITF, CODE39, CODE128, CODABAR • **Line Spacing:** 4.23mm (1/6") Selectable by command set (Minimum 1/203 inch) • **Printing Paper:** ***Thermal Roll Paper:*** Width 80mm; ***External Diameter:*** ø203mm (with paper holder unit) ***Internal diameter:*** ø25.4mm; ***Paper thickness:*** 60 to 85µm; ***Recommended Paper:*** TF-50KS-E, TF-62KS-E (Nippon Paper Industries) • **Interface:** Serial (RS-232C) or Parallel (Centronics) • **Input Buffer:** 4K bytes • **Command:** ESC/POS • **Sensors:** Paper near end sensor (adjustable, for PHU series); Paper end sensor (for PMU series); Black mark sensor (option) • **Power Source Voltage:** 24V±7% • **Power Consumption:** 100W • **Weight:** PPU; 1.6kg (incl. control PCB) • **External Dimensions (W x D x H):** PPU: 153.7 x 160 x 172mm • **Operating Temperature/Humidity:** 5°C ~ 40°C; 35 ~ 85% RH (No condensation) • **Storage Temperature/Humidity:** -20°C ~ 60°C; 10 ~ 90% RH (No condensation) • **Reliability:** ***Head:*** 50,000,000 pulses or 30km; ***Auto Cutter:*** 300,000 cuts • ***Safety Standard:*** UL, C-UL, FCC class A, TUV-CE marking

Features:
- Easy paper handling — the presenter unit feeds the paper after print and cut
- Paper auto loading
- Capable of loading large diameter roll paper (203ø)
- Both parallel (Centronics) and serial (RS-232C) interfaces available
- Equipped with a paper end sensor and paper near end sensor
- Bar-code printing

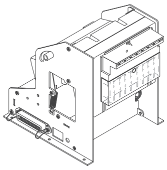

PPU-231PU-2

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
Printer, 80mm, Retractor, Parallel	471-1078-ND	528.97	487.80	PPU-231PU-2
Printer, 80mm, Retractor, Serial	471-1079-ND	528.97	487.80	PPU-231RU-2
Printer Module, 80mm	471-1077-ND	204.29	188.39	PMU-230
Presenter Retractor Module	471-1080-ND	83.28	76.80	PRU-130-2
Paper Handling Unit with one Sensor	471-1076-ND	45.29	41.77	PHU-131P.Holder

CITIZEN

Thermal Printers MLT288/289

MLT288

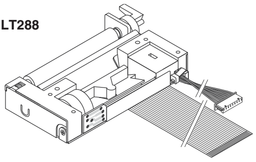

MLT289

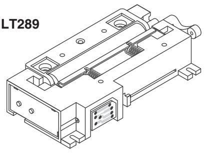

Features:
- Ultra compact design
- Light weight by aluminum-diecast frame (MLT-288)
- Low noise printing
- High-speed printing
- High resolution
- High reliability
- 5V operation
- Removable platen model (MLT-289)

Specifications:
• **Printing Method:** Line thermal dot printing • **Total Dots:** 384 dots/line • **Dot Density:** 8 dots/mm • **Print Width:** 48mm • **Print Speed:** Maximum 420 dot-line/second • **Paper Feed Pitch:** 0.125mm • **Sensors:** ***Head Temperature:*** Thermistor ***Paper Presence:*** Photo-interrupter ***Head-up:*** Mechanical switch • **Voltage Range:** ***VH:*** DC 4.2-8.5V ***Vdd:*** DC 4.75-5.25V • **Current Consumption:** ***Head (VH=5V):*** Maximum Approximately 1.7A ***Motor (VH=5V):*** Maximum Approximately 0.5A • **Recommended Paper:** ***Width:*** 58mm ***Thickness:*** 60-72µm (MLT-288); 65µm (MLT-289) ***Paper (Mfg.):*** TF50KS-E2C (Nippon Paper) • **Reliability:** ***Head Pulse-Resistance:*** 50,000,000 pulses or more (MLT-288); 100,000,000 pulses or more (MLT-289) • **Head Wear-Resistance:** 50km or more • **Environment:** ***Operation:*** Temperature: 0°C ~ 45°C / Humidity: 35~85% RH ***Storage:*** Temperature: -20°C ~ -60°C / Humidity: 10~90% RH • **External Dimensions (W x D x H):** 72.7 x 38 x 15mm (MT-288); 76.8 x 37 x 16mm (MLT-289) ***Weight:*** Approximately 45g (MLT-288); Approximately 50g (MLT-289)

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
58mm, 5V, Bent Paper Path	471-1036-ND	42.80	39.47	MLT288
58mm, 5V, Removable Platen	471-1037-ND	42.80	39.47	MLT289
Control Board for MLT289	471-1069-ND	93.15	85.91	BD2-2890U
Auto Cutter for MLT289	471-1073-ND	55.89	51.55	ACS-229

Thermal Printer MLT389

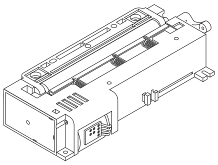

Specifications:
• **Printing Method:** Thermal dot line printing • **Total Dots:** 576 dot/line • **Dot Density:** 8 dots/mm • **Print Width:** 72mm • **Print Speed:** 244 dot lines per second @ 5V; 480 dot lines per second @ 7.2V • **Paper Feed Pitch:** 0.125mm • **Sensors:** ***Head Temperature:*** Thermistor ***Paper Presence:*** Photo-sensor ***Head-up:*** Mechanical switch • **Voltage Range:** ***VH:*** DC 4.2~8.5V (Ni-CD or Li-Ion, normally 7.2V maximum) ***VDD:*** DC 4.75~5.25V • **Current Consumption:** ***Head (Vp):*** Maximum: 1.7A Maximum VH=5V, 64 dots, 25C 2.4A Maximum VH+7.2V, 64 dots, 25C ***Motor (Vp):*** Maximum: approximately 0.5A Mean Current: approximately 0.3A VH=7.2V, 840PPS • **Recommended Paper:** ***Width:*** 80mm ***Thickness:*** 65µm • **Paper Feed Force:** More than 0.49N • **Paper Holding Force:** More than 0.78N • **Print Head Life*: Pulse Resistance:*** 100 million pulses or more (12.5% print) ***Wear Resistance:*** 50 km or more • **Environment:** ***Operation:*** Temperature: 0°C ~ 45°C / Humidity: 35~85% RH ***Storage:*** Temperature: -20°C ~ -60°C / Humidity: 10~90% RH • **Vibration Resistance:** 6G at 10-55 Hz, 3 perpendicular axes, 1 hour • **Shock Resistance:** 60G 11ms, 6 directions, one impact in each direction • **External Dimensions (W x D x H):** 99.5 x 41 x 21mm ***Weight:*** Approximately 95g

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
80mm, 5V, Removable Platen	471-1038-ND	53.52	49.36	MLT389

Thermal Printers LT1221/ LT1221C/ LT1321 LT1321

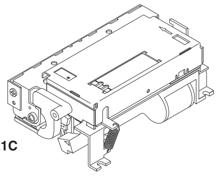

LT1221C

Features:
- Removable platen
- Simple and compact design
- High-speed printing (Maximum 80mm/second)
- High reliability
- Cutter model (LT1221C)

Specifications:
• **Printing Method:** Line thermal dot printing • **Total Dots:** 432 dots/line (LT1221), (LT1221C); 576 dots/line (LT1321) • **Dot Density:** 8 dots/mm • **Print Width:** 54mm (LT1221), (LT1221C); 72mm; (LT1321) • **Print Speed:** Max. 640 dot-line/second • **Paper Feed Pitch:** 0.125mm • **Sensors:** ***Head Temperature:*** Thermistor ***Paper Presence:*** Photo-sensor ***Head-up:*** Mechanical switch • **Voltage Range:** ***VH:*** DC 21.6-26.4V ***Vdd:*** DC 4.75-5.25V • **Current Consumption:** ***Head:*** Max. Approx. 5.2A ***Motor:*** Max. Approx. 0.41A • **Recommended Paper:** ***Width:*** 58mm (LT1221), (LT1221C); 80mm (LT1321) ***Thickness:*** 60-105µm (Standard), 110-150µm (A type) ***Paper (Mfg.):*** TF50-KS-E2C (Nippon Paper) • **Reliability:** ***Head Pulse-Resistance:*** 50,000,000 pulses or more • **Head Wear-Resistance:** 50km or more • **Environment:** ***Operation:*** Temperature 0°C ~ 45°C / Humidity: 35~85% RH ***Storage:*** Temperature: -20°C ~ -60°C / Humidity: 10~90% RH • **External Dimensions (W x D x H):** 91.5 x 58 x 20mm (LT1221); 101.3 x 61.5 x 37.2mm (LT1221C); 108 x 58 x 20mm (LT1321) ***Weight:*** Approximately 85g (LT1221); Approximately 273g (LT1221C); Approximately 97g (LT1321)

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
58mm, 24V, Removable Platen	471-1040-ND	62.22	57.38	LT1221
58mm, 24V, Removable Platen w/Cutter	471-1041-ND	99.88	92.11	LT1221C
80mm, 24V, Removable Platen	471-1043-ND	68.77	63.42	LT1321
Control Board	471-1071-ND	122.76	113.21	BD2-1221U

Thermal Printer LT1220/LT1320

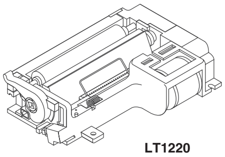

LT1220

Features:

- Simple and compact design
- High-speed printing (Max. 80mm/sec.)
- Thick paper up to 0.15mm
- Curl paper path and straight paper path model
- Easy paper loading by wide head opening space

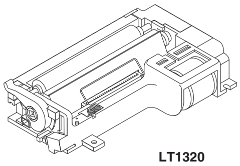

LT1320

Specifications:

• **Printing Method:** Line thermal dot printing • **Total Dots:** 432 dots/line (LT1220); 576 dots/line (LT1320) • **Dot Density:** 8 dots/mm • **Print Width:** 54mm (LT1220); 72mm (LT1320) • **Print Speed:** Maximum 640 dot-line/second • **Paper Feed Pitch:** 0.125mm • **Sensors:** ***Head Temperature:*** Thermistor ***Paper Presence:*** Photo-sensor ***Head-up:*** Photo-sensor • **Voltage Range:** ***VH:*** DC 21.6-26.4V ***Vdd:*** DC 4.75-5.25V • **Current Consumption:** ***Head:*** Maximum Approximately 5.2A ***Motor:*** Maximum Approximately 0.41A • **Recommended Paper:** ***Width:*** 58mm (LT1220); 80mm (LT1320) ***Thickness:*** 60-105µm (Standard), 110-150µm (A type) ***Paper (Mfg.):*** TF50-KS-E2C (Nippon Paper) • **Reliability:** ***Head Pulse-Resistance:*** 50,000,000 pulses or more • **Head Wear-Resistance:** 50km or more • **Environment:** ***Operation:*** Temperature 0°C ~ 45°C / Humidity: 35~85% RH ***Storage:*** Temperature: -20°C ~ -60°C / Humidity: 10~90% RH • **External Dimensions (W x D x H):** 91.5 x 58 x 20mm (LT1220); 108 x 58 x 20mm (LT1320) ***Weight:*** Approximately 87g (LT1220); Approximately 99g (LT1320)

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
80mm, 24V, Bent Paper Path	471-1042-ND	60.57	55.86	LT1320
Control Board	471-1070-ND	104.86	96.70	BD2-1220U

Mobile Thermal Printers CMP-10

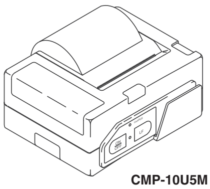

CMP-10U5M

The Citizen CMP-10 is a small, lightweight mobile receipt printer that brings functionality and convenience to any mobile environment. Printing at 50mm/sec., the CMP-10 affords maximum wireless freedom through an infrared (IrDA) interface. Weighing less than 12 ounces, the CMP-10 utilizes a long-life lithium-ion battery that supplies up to 40,000 lines of 8 dots/mm (203 dpi) thermal printing on a single charge. An optional integrated magnetic card reader provides rapid credit card processing.
Boasting wireless capability, long battery life and dimensions that fit perfectly on a belt clip or lanyard, the wireless Citizen CMP-10 satisfies the anytime, anywhere demands of today's mobile commerce.

Features:

- Wireless IrDA connectivity eliminates cumbersome cable connections. Two-way communication provides data integrity and is ideal for OEM integration.
- Wearable built-in metal belt hook and neck/shoulder lanyard.
- Protocol support for POS and Barcode.
- Accessories: belt clip and lanyard.
- Configuration options: magnetic stripe reader and 40mm paper cover.
- Interfaces to Pocket PC and Palm OS devices
- Portability

Specifications:

• **Printing Method:** Line thermal printing • **Total Dots:** 384 dots/line • **Dot Density:** 8 dots/mm (203 dpi) • **Print Speed:** 50mm/second (400 dot lines per second) • **Print Width and Characters per Line:** 48mm ***Font A:*** 32 characters/line; ***Font B:*** 42 characters/line • **Recommended Paper:** 58mm ± x 50mm diameter optional cover for 40mm diameter • **Interfaces:** IrDA Vers. 1.1, RS-232C, Interfaces with: Pocket PC and Palm OS devices • **Emulation:** ESC/POS, Barcode: EAN13, EAN8, UPC-A, UPC-E, Codabar, Code 39, Code 128 • **Power:** Rechargeable battery (Lithium-Ion) • **Battery Charge Time:** 3 hours maximum • **Print Lines per Charge:** 40,000 (fully charged) • **Buffer:** 64kb • **Reliability:** 50km • **Weight:** 329 grams • **Dimensions (W x D x H):** 116 x 90 x 51mm

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
40mm, Paper Roll, Black	471-1064-ND	267.28	246.48	CMP-10U4
40mm, Paper Roll, Black, 3 Track, Mag Reader	471-1065-ND	331.58	305.77	CMP-10U4M
50mm, Paper Roll, Black, 3 Track, Mag Reader	471-1067-ND	331.58	305.77	CMP-10U5M

CITIZEN

Thermal Line Printers CBM270

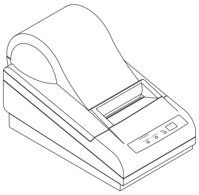

Features:

- Palm size
- Lightweight
- Availability of wall mount
- Paper auto loading
- Bar-code printing
- Compatibility (ESC/POS)
- Paper near end sensor
- 2K bytes input buffer
- Black and red printing with special paper (optional)

Applications:

• POS • Banking • Medical equipment • Coupon • Ticket • Daily report • Delivery • Barcode

Specifications:

• **Printing Method:** Line thermal dot printing • **Printing Width:** 48mm (384 dots/line) • **Printing Speed:** Maximum 50mm/second, 400 dot-line/second (11 lines/sec.) • **Number of Columns:** ***Font A:*** 32 columns; ***Font B:*** 42 columns • **Character Size (W x H):** ***Font A:*** 1.25 x 3.00mm (12 x 24 dots), ***Font B:*** 0.88 x 3.00 mm (9 x 24 dots) • **Dot Pitch:** 8 dots/mm • **Bar-code Type:** UPS-A/E, JAN (EAN), ITF, CODABAR, CODE 39, CODE 128 • **Line Spacing:** 4.23mm (1/6 inch), can be set by a command (Minimum 1/203 inch) • **Printing Paper:** ***Thermal Roll Paper:*** 58 x ø83mm (max.) ***Thickness:*** 60~75µm ***Thermal Label Paper:*** 58 x ø83 (maximum) ***Thickness:*** 150µm label ***Label Width:*** 56mm (maximum) ***Label Length:*** 25mm/pc (minimum) • **Interface: Parallel:** Centronics, Serial: RS-232C • **Input Buffer:** 2K bytes • **Paper Supply:** DC 7.2V 2A (Peak 6A) or AC adapter AC 100-240V (27 AD) • **Weight:** Approximately 600g • **External Dimensions (W x D x H):** 106 x 184 x 110mm • **Reliability:** ***Head:*** 50,000,000 pulses or 50km • **Safety Standard:** FCC class A, TUV-GS, CE marking

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
Parallel, 120V, Ivory	471-1050-ND	239.14	220.53	CBM-270PF 120V

Thermal Line Printers CBM1000

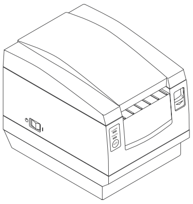

Features:

- 150mm/s high-speed printing
- Paper drop-in style
- User-installable interface card
- Bit map data registration
- Cash drawer kick out
- Bar-code printing
- Compatibility (ESC/POS)
- Page mode
- 80mm and 58mm paper width
- Availability in black, white and gray
- Label/Black mark function (option)
- Cable cover (option)
- Two color printing

Applications:

• Receipt • Coupon • Ticket • Daily Report • Kitchen • Delivery • Bar-code

Specifications: • **Printing Method:** Line thermal dot printing • **Printing Width:** 80mm paper: 72mm/576 dots; 58mm paper: 54mm/432 dots • **Dot Pitch:** 8 x 8 dots/mm (203 dpi x 203 dpi) • **Printing Speed:** Maximum 150mm/second (35.4 line/sec.) • **Number of Columns:** 80mm paper ***Font A:*** 44/42 columns; ***Font B:*** 64/56 columns; 58mm paper ***Font A:*** 36/30 columns; ***Font B:*** 48/40 columns • **Character Size (W x H):** ***Font A:*** 1.25 x 3.00mm (12 x 24 dots); ***Font B:*** 0.88 x 3.00mm (9 x 24 dots) • **Character Table:** Code page 437, 850, 852, 857, 860, 863, 865, 866, Katakana, Windows code • **Bar-code Type:** UPS-A/E, JAN-13/8, ITF, Code 39, Code 128, CODABAR, Code 93 • **Line Spacing:** 4.23mm (1/6 inch), can be set by a command • **Paper:** Thermal paper roll, 80 or 58mm (W) x ø83mm • **Interface:** ***Parallel:*** IEEE1284 and Centronics compliant Serial: RS-232C • **Input Buffer:** 4K bytes • **NV Bit Map Data Area:** 256K bytes • **Drawer Kick-out:** 2 drawers • **Power Supply:** AC adapter internally included • **AC Adapter:** ***Input:*** AC 100-240V, 50/60Hz, 120VA ***Output:*** DC 24V, 1.9A • **Weight:** 2.0kg • **External Dimension (W x D x H):** 145 x 190 x 157mm • **Operating Environment:** 5°C ~ 40°C, 35~85% RH • **Storage Environment:** -20°C ~ 60°C, 10~90% RH • **Reliability:** ***Head:*** 100,000,000 pulses or 100km; ***Cutter:*** 500,000 cuts • **Safety Standard:** UL, C-UL, FCC class A, TUV-GS, CE marking

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
Black, Parallel, 120V	471-1045-ND	332.73	306.83	CBM1000-II PF 120 BLK
White, Parallel, 120V	471-1046-ND	332.73	306.83	CBM1000-II PF 120 WHT
Gray, Parallel, 120V	471-1047-ND	332.73	306.83	CBM1000-II PF 120 GRY
Black, Serial, 120V	471-1048-ND	332.73	306.83	CBM1000-II RF 120 BLK
White, Serial, 120V	471-1049-ND	332.73	306.83	CBM1000-II RF 120 WHT

Impact Printers IDP3550/3551

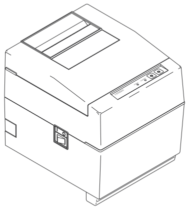

Features:

- High-speed printing
- Paper auto loading
- Compatibility (CBM, IDP, ESC/POS, Star)
- 6K bytes input buffer
- Auto cutter (iDP3551)
- Cash drawer kick out
- Pinfeed version (iDP3550P)
- Two color printing

Applications:

• Receipt • Journal • Ticket • Label • Credit/Debit • Daily report • Kitchen • Delivery

Specifications: • **Printing Method:** Serial dot impact • **Printing Direction:** Bidirectional • **Font:** 7 x 9 matrix • **Number of Columns:** 40 columns • **Printing Speed:** 3.6 lines/second (DP-654); 3.0 lines/second (DP-657) • **Character Size (W x H):** 1.36 x 2.4mm (DP-654); 1.20 x 2.4mm (DP-657) • **Character Set:** Alphanumeric, International, Code page 437, 850, 860, 863, 865, 852, 866, 857, Windows code • **Line Spacing:** 4.23mm, 1/6” (DP-654); 2.82mm (DP-657) • **Character Pitch:** 1.59mm (DP-654); 1.46mm (DP-657) • **Line Feed Speed:** 18 lines/second (DP-654); 15 lines (DP-657) • **Paper Feed Method:** Friction • **Paper:** 76mm roll paper • **Interface:** ***Parallel:*** Centronics ***Serial:*** RS-232C or Current loop • **Input Buffer:** 6K bytes • **Paper End Sensor:** Equipped • **Paper Cutter:** None (iDP3550); Partial/Full cut (iDP3551F) • **Paper Winder:** AW-3 (Option) • **Cash Drawer Control:** 2 drawers • **Ink Ribbon:** Red/Black, Cassette • **Power Supply:** AC 120V • **Power Consumption:** 30W • **Weight:** 2.8kg (iDP3550); 3.0kg (iDP3551F) • **External Dimensions (W x D x H):** 160 x 212 x 194mm (iDP3550); 160 x 212 x 173mm (iDP3551F) • **Operating Temperature Range:** 0°C ~ 40°C • **Storage Temperature Range:** -20°C ~ 60°C • **Reliability:** ***Printer:*** MCBF 4.0 million lines ***Head:*** 80 million characters ***Cutter:*** 500,000 cuts (iDP3551F) • **Safety Standard:** UL, C-UL, FCC class A, TUV-GS, CE marking

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
Black, 120V, Parallel	471-1056-ND	245.69	226.57	IDP-3550PF B
Cool White, 120V, Parallel	471-1057-ND	245.69	226.57	IDP3550PF-CW
Cool White, 120V, Serial	471-1058-ND	245.69	226.57	IDP-3550RF-CW
Black, 120V, Serial	471-1059-ND	245.69	226.57	IDP-3550RF B
Cool White, 120V, Parallel Cutter	471-1060-ND	274.70	253.32	IDP-3551PF-CW
Black, 120V, Parallel Cutter	471-1061-ND	274.70	253.32	IDP-3551PF B
Cool White, 120V, Serial Cutter	471-1062-ND	274.70	253.32	IDP-3551RF-CW
Black, 120V, Serial Cutter	471-1063-ND	274.70	253.32	IDP-3551RF B

Impact Printer DP-614

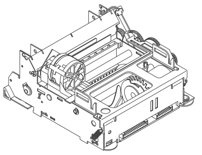

Features:

- High-speed printing
- High reliability
- 2 color printing (black/red)
- 76mm paper width
- 24V operation

Specifications:

• **Printing Method:** Serial dot impact method • **Printing Direction:** Bidirectional • **Printing Speed:** Approximately 3.0 lines/sec. • **Number of Columns:** 40 columns, 360 dots/line • **Font:** 7 x 9 matrix • **Character Size (W x H):** 1.36 x 2.4mm • **Line Spacing:** 1/6 inch • **Motor:** ***Voltage:*** 24VDC / ***Peak Current:*** Maximum 21A (12V, 25°C); ***Average Current:*** Approximately 0.2A or less • **Dot Pulse Sensor:** Photo interrupter • **Home Position Sensor:** Photo Interrupter • **Paper Feed Motor:** ***Voltage:*** 24VDC / ***Resistance:*** 48Ω (25°C) • ***Driving Pulse Width:*** 30 DP, Approximately 20ms • **Printing Solenoid:** ***Voltage:*** 24V ±1VDC / ***Resistance:*** 17Ω (24VDC, 25°C) • **Color Change Solenoid:** ***Voltage:*** 24VDC / ***Resistance:*** 48Ω (24VDC, 25°C) • **Connector Terminals:** Connector 1 (MMP17R-1: Counterpart MMH17-1 manufactured by BURNDY); Connector 2 (MMP7R-1: Counterpart (MMH7-1 manufactured by BURNDY) • **Paper Feed:** Friction feed • **Printing Paper:** ***Friction Feed:*** 76mm roll paper x ø83mm • **Copy:** ***Friction Feed*:** Original + 1 copy • **Paper Feed Power:** More than 100g (Citizen recommended paper) • **Ink Ribbon:** Two Colors (Red and Black) • **Paper Feed Speed:** Approximately 18 lines/second • **External Dimensions (W x D x H):** ***Two colors:*** 137 x 136 x 63.5mm • **Weight:** Approximately 690g • **Operating Temperature Range:** 0°C ~ 50°C • **Reliability:** ***Printer:*** MCBF 4.0 million lines ***Head:*** 80 million characters

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
76mm, 24V, 2 Color, Friction Feed	471-1044-ND	117.02	107.91	DP-614 DFC
Auto Cutter, Partial Cut	471-1074-ND	45.37	41.85	AC-134
Auto Cutter, Full Cut	471-1075-ND	45.37	41.85	AC-134F

Thermal Line Printers IDP3240

Applications: • Receipt • Coupon • Ticket • Daily Report • Kitchen • Delivery • Bar-code

Specifications: • **Printing Method:** Line thermal dot printing • **Printing Width:** 104mm/832 dots • **Dot Pitch:** 8 x 8 dots/mm (203 dpi x 203 dpi) • **Printing Speed:** Maximum 80mm/second (18.9 lines/second) • **Number of Columns:** ***Font A:*** 69/60 columns; ***Font B:*** 92/80 columns • **Character Size (W x H):** ***Font A:*** 1.25 x 3.00mm (12 x 24 dots); ***Font B:*** 0.88 x 3.00mm (9 x 24 dots) • **Character Table:** Code page 437, 850, 852, 857, 860, 863, 865, 866, Katakana and Windows code • **Bar-code Type:** UPC-A/E, JAN (EAN)-13/8, ITF, CODABAR, Code 39, and Code 128 • **Line Spacing:** 4.23mm (1/6 inch), can be set by a command • **Paper:** Thermal paper roll, 112mm (W) x ø83mm • **Interface:** ***Parallel:*** IEEE1284 and Centronics compliant ***Serial:*** RS-232C • **Input Buffer:** 64K bytes • **NV Bit Map Data Area:** 256K bytes • **Drawer Kick-out:** 2 Drawers • **Power Supply:** ***Main Unit:*** DC 24V ***AC Adapter:*** 31AD • **AC Adapter:** ***Input:*** AC 100-240V, 50/60Hz, 120VA ***Output:*** DC 24V, 1.9A • **Weight:** ***Main Unit:*** 1.45kg ***AC Adapter:*** 0.45kg • **External Dimensions (W x D x H):** 186 x 201 x 128mm • **Operating Environment:** 5°C ~ 40°C, 35~80% RH • **Storage Environment:** -20°C ~ 60°C, 10~90% RH • **Reliability:** ***Head:*** 100,000,000 pulses or 100km; ***Cutter:*** 500,000 cuts • **Safety Standard:** UL, C-UL, FCC class A, TUV-GS, CE marking

Features:

- Cash drawer kick out
- Compatibility (ESC/POS)
- Page mode
- 112mm page width
- Bit map data registration
- 80 columns mode
- 64K input buffer
- Compact design
- High-speed line thermal printing
- Easy paper loading
- Bar-code printing

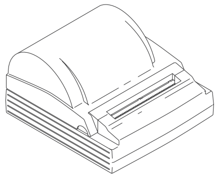

Description	Digi-Key Part No.	Price Each 1	10	Citizen Part No.
Parallel, 120V, Ivory	471-1054-ND	427.54	394.26	IDP3240PF120V
Serial, 120V, Ivory	471-1055-ND	427.54	394.26	IDP3240RF120V

OMRON Magnetic Swipe Card Readers

Fig. 1

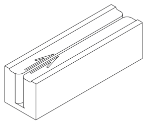

Fig. 2

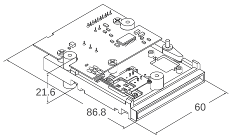

Features: Low cost, compact, manual swipe reader

Specifications: • Low power C-Mos technology • TTL-compactible interface (clock and data) • Cable harness included on V3B Series only • Mating connector for V3A Series is WM1727-ND (Housing) and WM1775-ND (Contact)

Fig.	Color	Communication Interface	Cover	Supply Voltage	Track			Digi-Key Part No.	Price Each			Omron Part No.
					1	2	3		1	25	50	
Swipe Type												
1	Black	TTL (Clock + Data)	Yes	5 VDC	—	Read	—	Z2066-ND	29.35	26.42	23.48	V3B-4K
	Ivory	TTL (Clock + Data)	Yes	5 VDC	—	Read	—	Z2064-ND	26.10	23.49	20.88	V3A-4K
	Ivory	TTL (Clock + Data)	No	5 VDC	Read	Read	—	Z2065-ND	40.05	36.05	32.04	V3A-6
	Ivory	RS232C (with cable)	Yes	5 VDC	Read	Read	Read	Z2111-ND	198.08	178.27	158.46	3S4YR-HNF1
Insert Type Readers												
2	Black	TTL (Clock + Data)	No	5 VDC	—	Read	—	Z2112-ND	43.19	38.88	34.56	3S4YR-SBR-4N-50
	Black	TTL (Clock + Data)	No	5 VDC	—	—	—	Z2113-ND	131.53	118.38	105.23	3S4YR-SGR0J
	Black	TTL (Clock + Data)	No	5 VDC	Read	Read	Read	Z2114-ND	154.54	139.09	123.64	3S4YR-SGR1N

Panasonic Magnetic Card Readers

Fig. 1

Manual Swipe Card Readers

- Compact and lightweight designs • New high performance head mechanism

Applications:
- Credit authorization terminals
- Credit card telephones
- POS terminals • Time and attendance terminals • Banking terminals (ATM/CD)

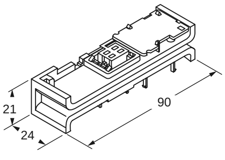

Specifications:
- **Power Supply Voltage:** 5VDC • **Operating Temperature/ Humidity:** -20°C ~ 60°C/ 10 ~ 90%RH • **Head Life:** PCR 100 - 300K passes, PCR102 - 500K passes

Fig. 2

Manual Swipe Card Reader with Built-In RS-232 Interface and Decoder

- Fully enclosed self (port) powered card reader featuring two track capability with long life heads. Shipped with attached 9-Pin D-Sub cable. Demo software is available but is not included

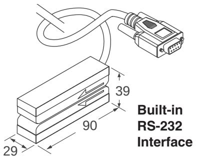

Specifications:
- **Power Supply Voltage:** 5VDC • **Operating Temperature /Humidity:** -20°C ~ 50°C/ 10 ~ 90%RH • **Weight:** Approximately 90g
- **Head Life:** PCR 108 - 1M passes

Fig. 3

Manual Insertion Card Readers

- High precision, high reliability

Applications:
- Credit card telephones
- Cost control for facsimiles and copiers
- Security control systems
- Time and attendance terminals

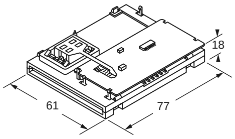

Specifications:
- **Power Supply Voltage:** 5VDC • **Operating Temperature/ Humidity:** -20°C ~ 60°C/ 10 ~ 90%RH • **Head Life:** 300K passes

Fig. 4

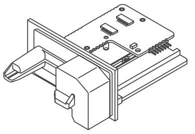

Manual Insertion Card Readers ZU-1870MA6T2, ZU-1852MAL5, ZU-1870MA5T5, ZU-1870MA4T4
- High precision, high reliability

Applications:
- Credit card telephones • Cost control for facsimiles and copiers
- Security control systems • Time and attendance terminals

Specifications:
- **Power Supply Voltage:** 5VDC • **Operating Temperature/ Humidity:** -20°C ~ 60°C/ 10 ~ 90%RH • **Head Life:** PCR109 - 300K passes, PCR106/107/113 - 500K passes

Manual Insertion Card Readers with Built-In RS-232 Interface and Decoder: ZU-1870MA8R2:

Applications:
- For Outdoor use • Twin read heads for ease of use • IPX4 rated for moisture resistance

Specifications:
- **Power Supply Voltage:** 4.75 ~ 12V • **Operating Temperature/ Humidity:** -10°C ~ 50°C/ 10 ~ 90%RH • **Head Life:** 500K

Notes: Cable is not included. Demo software is available but is not included.

Fig. 5

Manual Insertion Card Readers ZU-1890M
- High precision, high reliability

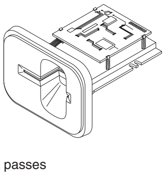

Applications:
- Credit card telephones • Cost control for facsimiles and copiers • Security control systems • Time and attendance terminals

Specifications:
- **Power Supply Voltage:** 5VDC • **Operating Temperature/Humidity:** -20°C ~ 60°C/ 10 ~ 90%RH • **Head Life:** 300K passes

Manual Insertion Card Reader with Built-in RS-232 Interface and Decoder ZU-1890MR02:
- For indoor applications

Specifications:
- **Power Supply Voltage:** 5VDC • **Operating Temperature/Humidity:** -10°C ~ 50°C/ 10 ~ 90%RH • **Head Life:** 300K passes

Fig. 6

Manual Insertion Card Reader ZU-1870MA8R with buit in RS-232 Interface and Decoder:

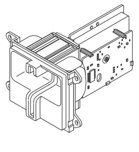

Applications:
- For Outdoor use • Twin read heads for ease of use • IPX4 rated for moisture resistance

Specifications:
- **Power Supply Voltage:** 4.75 ~ 12V • **Operating Temperature/ Humidity:** -10°C ~ 50°C/ 10 ~ 90%RH • **Head Life:** 500K

Notes: Cable is not included. Demo software is available but is not included.

Fig. 7

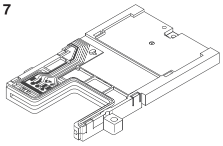

Manual Magnetic Card Reader ZU-9A36B11

Specifications:
- **Physical Dimensions:** (W) 73mm X (H) 12.6mm X (D) 108.5mm • **Mass:** Approximately 50g
- **POWER SOURCE:** • **Voltage:** DC 5.0V (tolerance ±10%), Ripple 250mV p-p
- **Current**: Maximum 15mA
- **INTERFACE: Magnetic card:** Direct output of decoder IC (/RCL,/RDT)
- **ENVIRONMENT:** • **Operating Temperature/Humidity:** 0°C ~ 55°C/ 10% ~ 90% RH (non condensing) • **Storage Temperature/Humidity:** -20°C ~ 60°C/5% ~ 95% (non condensing)
- **SPECIFICATION OF MAGNETIC READING**
- **Reading direction:** Insertion/Ejection
- **Head Life:** 300K • **Core Width:** 1.4mm
- **Reading Speed:** 15 cm/s ~ 70 cm/s

Fig.	Card Standard	Current	Card Feed Speed	Card Reading Direction	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	IS02	3mA	8 ~ 150 cm/second	Swipe	PCR100-ND	28.22	22.58	18.35	ZU-M1121S1
1	IS01/IS02	6mA	10 ~ 150 cm/second	Swipe	PCR102-ND	43.56	34.85	28.32	ZU-M1242S1
2	IS01/IS02	14mA	10 ~ 150 cm/second	RS-232, Swipe	PCR108-ND	117.66	94.13	76.48	ZU-M1242L4DK
3	IS02	10mA	10 ~ 120 cm/second	Insertion	PCR115-ND	44.60	35.68	28.99	ZU-M2121S21
4	IS01/IS02	Less than 25mA	10 ~ 100 cm/second	Ejection	PCR113-ND	74.00	59.20	48.10	ZU-1870MA6T2
4	IS02	15mA	10 ~ 120 cm/second	Ejection	PCR106-ND	55.86	44.69	36.31	ZU-1852MAL5
4	IS01/IS02	15mA	10 ~ 100 cm/second	Ejection	PCR107-ND	63.12	50.50	41.03	ZU-1870MA5T5
4	IS01/IS02	15mA	10 ~ 150 cm/second	Ejection	PCR109-ND	61.86	49.49	40.21	ZU-1870MA4T4
4	IS01/IS02	Approximately 30mA	10 ~ 120 cm/second	RS-232, Ejection	PCR118-ND	105.00	90.98	79.44	ZU-1870MA8R2
5	IS01/IS02	Approximately 30mA	10 ~ 120 cm/second	RS-232, Ejection	PCR114-ND	109.00	87.20	70.85	ZU-1890MR02
5	IS01/IS02	15mA	10 ~ 150 cm/second	Ejection	PCR111-ND	67.50	54.00	43.88	ZU-1890M
6	IS01/IS02	Approximately 30mA	10 ~ 120 cm/second	RS-232, Ejection	PCR117-ND	125.50	100.40	81.58	ZU-1870MA8R
7	IS01/IS02/IS03	15mA	15 ~ 70 cm/second	Insertion/Ejection	PCR119-ND	76.00	60.80	49.40	ZU-9A36B11
Cover for Single/Double Manual Swipe Reader (Use with PCR100, PCR102)..					PCR104-ND	5.26	—	—	U1101M041
Bezel for ZU-M2121 Series (Use with PCR115)..					PCR116-ND	4.68	3.75	3.05	ZU-M202BB1

3M

Cable Ties

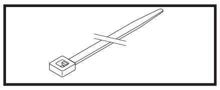

3M Cable Ties secure wire bundles and harness components quickly, without slipping

The self-locking head, with heavy double teeth on the one piece lock mechanism.

Molded from 6/6 nylon, 3M cable ties are designed to meet a wide range of temperatures from -40°F ~ 185°F (-40°C ~ 85°C).

Weather resistant black nylon for indoor and outdoor use and natural nylon for indoor use only.

Cable Tie Type	Length Inch(mm)	Width Inch(mm)	Max Bundle Dia. Inch(mm)	Tensile Lb/Kg	Color	Digi-Key Part No.	Bag Qty Size	Price Each	Digi-Key Part No.	Bag Qty Size	Price Each
Miniature	4.0 (101.6)	.10 (2.54)	.8 (20.32)	18 (8.16)	Natural	3M101C-ND	100	2.68	3M101M-ND	1,000	14.04
	4.0 (101.6)	.10 (2.54)	.8 (20.32)	18 (8.16)	Black	3M101BKC-ND	100	2.94	3M101BKM-ND	1,000	15.66
	6.0 (152.4)	.10 (2.54)	1.7 (43.18)	18 (8.16)	Natural	3M110C-ND	100	4.42	3M110M-ND	1,000	25.78
	6.0 (152.4)	.10 (2.54)	1.7 (43.18)	18 (8.16)	Black	3M110BKC-ND	100	5.18	3M110BKM-ND	1,000	29.41
	8.0 (203.2)	.10 (2.54)	2.2 (55.88)	18 (8.16)	Natural	3M111C-ND	100	5.32	3M111M-ND	1,000	30.92
	8.0 (203.2)	.10 (2.54)	2.2 (55.88)	18 (8.16)	Black	3M111BKC-ND	100	6.34	—	—	—
Intermediate	5.7 (144.78)	.14 (3.56)	1.4 (35.56)	40 (18.14)	Natural	3M102C-ND	100	4.85	3M102M-ND	1,000	28.08
	5.7 (144.78)	.14 (3.56)	1.4 (35.56)	40 (18.14)	Black	3M102BKC-ND	100	5.69	3M102BKM-ND	1,000	32.08
Standard	7.5 (190.5)	.18 (4.57)	1.9 (48.26)	50 (22.68)	Natural	3M103C-ND	100	5.85	3M103M-ND	1,000	34.13
	7.5 (190.5)	.18 (4.57)	1.9 (48.26)	50 (22.68)	Black	3M103BKC-ND	100	7.02	3M103BKM-ND	1,000	40.10
	11.3 (287.02)	.18 (4.57)	3.1 (78.74)	50 (22.68)	Natural	3M104C-ND	100	11.16	3M106D-ND	1,000	69.48
	11.3 (287.02)	.18 (4.57)	3.1 (78.74)	50 (22.68)	Black	3M104BKC-ND	100	12.36	3M106BKD-ND	1,000	75.60
	14.5 (368.3)	.18 (4.57)	4.1 (104.14)	50 (22.68)	Natural	3M105C-ND	100	16.14	3M105D-ND	500	67.20
	14.5 (368.3)	.18 (4.57)	4.1 (104.14)	50 (22.68)	Black	3M105BKC-ND	100	17.40	3M105BKD-ND	500	77.40
Heavy Duty	15.1 (383.54)	.30 (7.62)	4.0 (101.6)	120 (54.43)	Natural	3M107HDC-ND	100	28.38	3M105HDD-ND	500	140.40
	15.1 (383.54)	.30 (7.62)	4.0 (101.6)	120 (54.43)	Black	3M107HDBKC-ND	100	31.50	3M105HDBKD-ND	500	155.40
Extra Heavy Duty	33.1 (840.74)	.34 (8.64)	9.8 (248.92)	175 (79.38)	Natural	3M108HDL-ND	50	51.30	—	—	—
	37.1 (942.34)	.34 (8.64)	11 (279.4)	175 (79.38)	Natural	3M109HDL-ND	50	61.71	—	—	—
	37.1 (942.34)	.34 (8.64)	11 (279.4)	175 (79.38)	Black	3M109HDBKL-ND	50	67.86	—	—	—
	48 (1219.2)	.35 (8.89)	15 (381)	175 (79.38)	Natural	3M114HDL-ND	50	94.80	—	—	—
	48 (1219.2)	.35 (8.89)	15 (381)	175 (79.38)	Black	3M114HDBKL-ND	50	105.33	—	—	—

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE
ELECTRONICS CORP

Terminals

Fig. 1

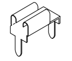

Fig. 2

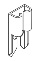

Fig. 3

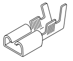

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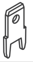

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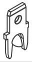

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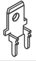

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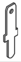

Fig. 8

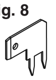

Fig. 9

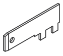

Fig. 10

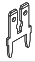

Fig. 11

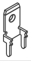

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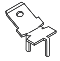

Fig. 13

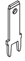

Fig. 14

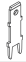

Fig. 15

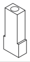

Fig. 16

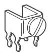

Fig. 17

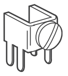

Fig. 18

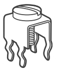

Fig. 19

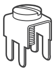

Fig. 20

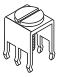

Fig. 21

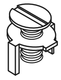

Fig. 22

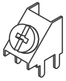

Fig. 23

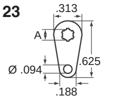

Fig. 24

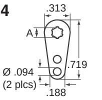

Fig. 25

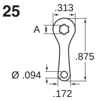

Fig. 26

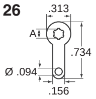

Fig. 27

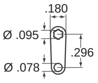

Fig. 28

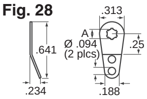

Fig. 29

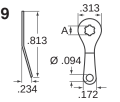

Fig. 30

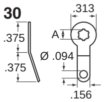

Fig. 31

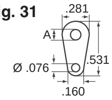

Fig. 32

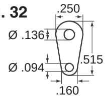

Fig. 33

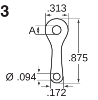

Fig. 34

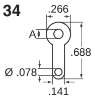

Fig. 35

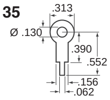

Fig. 36

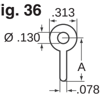

Fig.	Description	Dim.	Digi-Key	Pricing	
		A	Part No.	10	100
	PC Quick-Fit Tab Terminal				
1	.110” Female, Horizontal	—	3545K-ND	4.10	28.50
	.110” Female, Horizontal	—	3549K-ND	4.10	28.50
	.205” Female, Horizontal	—	3546K-ND	4.27	29.80
	.205” Female, Horizontal	—	3550K-ND	4.27	29.80
	.250” Female, Horizontal	—	3547K-ND	3.93	31.25
2	.110” Female, Vertical	—	3534K-ND	1.94	10.45
	.110” Female, Vertical	—	3544K-ND	1.94	10.45
	.205” Female, Vertical	—	3525K-ND	1.94	10.45
	.250” Female, Vertical	—	3528K-ND	1.94	10.45
	.187” Female, Vertical	—	3548K-ND	1.94	10.45
2	.187” Female, Vertical	—	3551K-ND	1.94	10.45
2	.205” Quick-Fit Vertical Terminal	—	3522K-ND	1.94	10.45
3	.110” Female, 18-22 Gage	—	1252K-ND	1.49	10.30
3	.187” Female, 16-22 Gage	—	1264K-ND	3.58	24.90
3	.205” Female, 16-20 Gage	—	4469K-ND	4.31	34.35
3	.250” Female, 16-20 Gage	—	4470K-ND	2.72	19.05
4	.205” Male, .020 Brass, Tin Plate, .046 Diameter	—	1286K-ND	.90	4.65
4	.205” Male, .032 Brass, Tin Plate, .052 Diameter	—	1213K-ND	.90	6.90
5	.205” Male, .020 Brass, Tin Plate, .046 Diameter	—	1286-STK-ND	.84	5.85
5	.205” Male, .032 Brass, Tin Plate, .052 Diameter	—	1213-STK-ND	.90	6.90
6	.187” Male, .020 Brass, Tin Plate, .043 Diameter	—	4900K-ND	1.37	9.50
4	.187” Male, .020 Brass, Tin Plate, .046 Diameter	—	1285K-ND	.80	5.65
4	.187” Male, .032 Brass, Tin Plate, .052 Diameter	—	1212K-ND	.87	6.75
5	.187” Male, .020 Brass, Tin Plate, .046 Diameter	—	1285-STK-ND	.84	4.35
5	.187” Male, .032 Brass, Tin Plate, .052 Diameter	—	1212-STK-ND	.87	6.75
7	.110” Male, .020 Brass, Tin Plate, .046 Diameter	—	1267K-ND	1.03	7.30
7	.110” Male, .032 Brass, Tin Plate, .052 Diameter	—	1211K-ND	1.08	7.95
8	.110” Male, .020 Brass, Tin Plate, .046 Diameter	—	4903K-ND	2.14	14.95
8	.110” Male, .032 Brass, Tin Plate, .052 Diameter	—	4906K-ND	2.19	15.05
8	.187” Male, .020 Brass, Tin Plate, .046 Diameter	—	4904K-ND	2.05	14.30
8	.187” Male, .032 Brass, Tin Plate, .052 Diameter	—	4907K-ND	2.10	14.40
8	.250” Male, .032 Brass, Tin Plate, .056 Diameter	—	4966K-ND	1.54	8.20
8	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1266K-ND	1.60	8.30
9	.250” Male, .032 Brass, Tin Plate, .106 Diameter	—	1265K-ND	2.21	11.45
4	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1287K-ND	.99	6.90
5	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1287-STK-ND	.99	6.90
10	.110”/.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1282K-ND	.99	6.90
6	.250” Male, .032 Brass, Tin Plate, .067 Diameter	—	4901K-ND	1.37	9.50
11	.250” Male, .032 Brass, Tin Plate, .067 Diameter	—	4902K-ND	1.37	9.50
12	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	4908K-ND	2.90	20.25
13	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1289K-ND	1.53	7.00
13	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1289-STK-ND	2.13	10.25
14	.250” Male, .032 Brass, Tin Plate, .052 Diameter	—	1281K-ND	2.47	12.80
15	.250” Quick-Fit Vinyl Boot, Clear	—	4471K-ND	1.09	7.75
15	.250” Quick-Fit Vinyl Boot, Red	—	4472K-ND	1.09	7.75
15	.250” Quick-Fit Vinyl Boot, Blue	—	4473K-ND	1.09	7.75
15	.250” Quick-Fit Vinyl Boot, Yellow	—	4474K-ND	1.09	7.75
—	Terminal Hand Insertion Tool	—	1288K-ND		34.77/1
	MT Screw Terminal				
16	Snap-In PC Horizontal	—	7690K-ND	—	24.05
16	Snap-In PC Horizontal, Captivated	—	7692K-ND*	—	28.50
17	PC Horizontal	—	8190K-ND	—	22.40
17	PC Horizontal, Captivated	—	7700K-ND*	—	24.80
18	Snap-In PC Vertical	—	7691K-ND	—	23.60
18	Snap-In PC Vertical, Captivated	—	7693K-ND*	—	27.15
19	PC Vertical	—	8191K-ND	—	22.05
19	PC Vertical, Captivated	—	7701K-ND*	—	25.50
20	Terminal PC Vertical, Heavy Duty	—	8196K-ND	—	36.75

Fig.	Description	Dim.	Digi-Key	Pricing	
		A	Part No.	10	100
21	Terminal Insert 10/32 Thread, Captivated	—	1202K-ND	8.51	67.75
21	Screw Terminal Insert 10/32	—	1299K-ND	8.51	67.75
22	Screw Supplied Unassembled	—	8189K-ND	4.27	24.15
22	Screw Installed and Captivated	—	7702K-ND	4.92	26.50
	Lockwasher Terminal Lugs				
23	.018 Brass, Tin Plate	.120	908K-ND	1.09	8.05
23	.018 Brass, Tin Plate	.140	914K-ND	1.09	8.05
23	.018 Brass, Tin Plate	.171	915K-ND	1.09	8.05
24	.018 Brass, Tin Plate	.120	910K-ND	1.14	8.30
24	.018 Brass, Tin Plate	.140	918K-ND	1.14	8.30
24	.018 Brass, Tin Plate	.171	906K-ND	1.23	8.30
25	.018 Brass, Tin Plate	.120	903K-ND	1.17	8.65
25	.018 Brass, Tin Plate	.140	904K-ND	1.17	8.65
25	.018 Brass, Tin Plate	.171	905K-ND	1.17	8.65
26	.018 Brass, Tin Plate	.120	909K-ND	1.19	8.75
26	.018 Brass, Tin Plate	.140	916K-ND	1.19	8.75
26	.018 Brass, Tin Plate	.171	917K-ND	1.19	8.75
27	.013 Brass, Tin Plate	—	907K-ND	2.10	14.50
28	.018 Brass, Tin Plate	.120	7311K-ND	1.14	8.30
28	.018 Brass, Tin Plate	.140	7312K-ND	1.14	8.30
28	.018 Brass, Tin Plate	.171	7313K-ND	1.14	8.30
29	.018 Brass, Tin Plate	.120	7317K-ND	1.17	8.65
29	.018 Brass, Tin Plate	.140	7318K-ND	1.17	8.65
29	.018 Brass, Tin Plate	.171	7319K-ND	1.17	8.65
30	.018 Brass, Tin Plate	.120	7314K-ND	1.19	8.75
30	.018 Brass, Tin Plate	.140	7315K-ND	1.19	8.75
30	.018 Brass, Tin Plate	.171	7316K-ND	1.19	8.75
	Solder Terminal Lugs				
31	.015 Brass, Tin Plate	.120	7328K-ND	1.13	8.35
31	.015 Brass, Tin Plate	.140	7329K-ND	1.13	8.35
31	.015 Brass, Tin Plate	.171	7330K-ND	1.13	8.35
32	.016 Brass, Tin Plate	—	4004K-ND	1.00	6.90
33	.020 Brass, Tin Plate	.120	7331K-ND	1.11	7.90
33	.020 Brass, Tin Plate	.140	7332K-ND	1.11	7.90
33	.020 Brass, Tin Plate	.171	7333K-ND	1.08	7.90
34	.020 Brass, Tin Plate	.120	7325K-ND	1.08	7.90
34	.020 Brass, Tin Plate	.140	7326K-ND	1.11	7.90
34	.020 Brass, Tin Plate	.171	7327K-ND	1.08	7.90
	Terminal Lugs				
35	.015 Brass, Tin Plate	—	680K-ND	1.32	9.50
36	.020 Brass, Tin Plate	.500	4000K-ND	1.04	5.40
36	.020 Brass, Tin Plate	.562	4001K-ND	1.04	5.75
36	.020 Brass, Tin Plate	.750	4002K-ND	1.15	7.95
36	.020 Brass, Tin Plate	1.000	4003K-ND	1.25	8.75
	Double Turret Series				
—	TL-1 Brass, Tin Plate, .084” Length	—	1593-2K-ND	1.45	10.20
—	TL-1 Brass, Tin Plate, .082” Length	—	1573-2K-ND	1.57	13.75
—	TL-2 Brass, Tin Plate, .109” Length	—	1502-2K-ND	1.91	13.95
	Tubular (Hollow) Turret Series				
—	TL-2 Brass, Tin Plate, .084” Length	—	1562-2K-ND	2.08	18.10
	PC Test Point Terminals				
—	.020 Brass, Tin Plate, Slotted, .032” Diameter	—	1031K-ND	1.53	7.75
—	.025 Brass, Tin Plate, Slotted, .118” Diameter	—	1040K-ND	1.34	6.65
—	.025 Brass, Tin Plate, Loop, .040” Diameter	—	1249K-ND	1.55	7.85
—	.025 Brass, Tin Plate, Loop, .050” Diameter	—	1045K-ND	3.09	15.50
—	.025 Brass, Tin Plate, Loop, .098” Diameter	—	4952K-ND	1.39	9.60
	90° Quick-Fit Rivet Terminal				
—	.250” Tab, .032 Brass, 3 Pairs, .130” Diameter	—	1006K-ND	4.85	38.65

* Screw Installed and Captivated

Round Clear Spacers (Non Threaded)

Materials: Brass: Nickel Plate (QQ-N-290)
• **Aluminum:** Iridite Finish (MIL-C-5541)

Clearance Hole: • .120” for #4 Screw • .140 for #6 Screw • .171 for #8 Screw

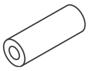

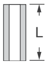

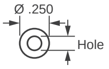

Screw (Hole)	Dim. L (Inch)	Brass Spacers Part No.	Pricing 10	Pricing 100	Aluminum Spacers Part No.	Pricing 10	Pricing 100
#4 (.120)	.125	1909K-ND	2.64	18.55	2036K-ND	1.91	11.60
	.250	1454AK-ND	3.01	21.10	3457K-ND	2.24	11.85
	.375	1454BK-ND	3.20	22.50	3458K-ND	2.66	14.10
	.500	1454CK-ND	3.83	26.75	3459K-ND	2.90	15.95
	.625	1919K-ND	4.27	30.15	2314K-ND	3.20	17.65
	.750	1454DK-ND	3.80	30.65	3460K-ND	3.59	19.05
	.875	1920K-ND	5.87	47.40	3402K-ND	4.04	23.80
	1.000	1454EK-ND	5.61	48.31	3461K-ND	3.84	24.80
	1.500	1924K-ND	12.06	76.75	3462K-ND	8.55	50.70
	2.000	1925K-ND	15.98	101.75	3463K-ND	10.53	67.05
#6 (.140)	.125	1934K-ND	2.64	18.55	3403K-ND	1.91	11.60
	.250	1457AK-ND	3.01	21.10	3464K-ND	2.24	11.85
	.375	1457BK-ND	3.20	22.50	3465K-ND	2.66	14.10
	.500	1457CK-ND	3.83	26.75	3466K-ND	2.90	15.95
	.625	1935K-ND	4.27	30.15	3429K-ND	3.20	17.65
	.750	1457DK-ND	3.80	30.65	3467K-ND	3.59	19.05
	.875	1936K-ND	5.87	47.40	3438K-ND	4.04	23.80
	1.000	1457EK-ND	5.61	48.31	3468K-ND	3.84	24.80
	1.500	1937K-ND	12.06	76.75	3469K-ND	8.55	50.70
	2.000	1938K-ND	15.89	101.65	3470K-ND	10.53	67.05
#8 (.171)	.125	1942K-ND	2.64	18.55	4258K-ND	1.91	11.60
	.250	1480K-ND	3.01	21.10	3471K-ND	2.24	11.85
	.375	1481K-ND	3.20	22.50	3472K-ND	2.66	14.10
	.500	1482K-ND	3.83	26.75	3473K-ND	2.90	15.95
	.625	2032K-ND	4.27	30.15	4259K-ND	3.20	17.65
	.750	1483K-ND	3.80	30.65	3474K-ND	3.59	19.05
	.875	2033K-ND	5.87	47.40	4260K-ND	4.04	23.80
	1.000	1484K-ND	6.04	48.60	3475K-ND	3.84	24.80
	1.500	2034K-ND	12.06	76.75	3476K-ND	8.55	50.70
	2.000	2035K-ND	15.89	101.65	3477K-ND	10.53	67.05

Round Spacer Kits

Brass Nickel Plated - Assortment of 1500 pieces in 1/4”, 3/8”, 1/2”, 3/4” and 1” lengths with clearance holes for #4, #6, and #8. 100 pieces of each size complete with cabinet.
SPR-13KIT-ND **$278.12**

Nylon Spacers

Hex Threaded Standoffs

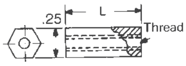

Material: Nylon 6/6 Economical for terminal or printed circuit board supports.

Dim. L (Inch)	4-40 Thread Part No.	6-32-Thread Part No.	8-32 Thread Part No.	Pricing 10	Pricing 100
.250	1902AK-ND	1903AK-ND	1904AK-ND	4.85	28.75
.375	1902BK-ND	1903BK-ND	1904BK-ND	4.97	29.45
.500	1902CK-ND	1903CK-ND	1904CK-ND	5.17	30.75
.625	1902FK-ND	1903FK-ND	1904FK-ND	4.51	36.40
.750	1902DK-ND	1903DK-ND	1904DK-ND	6.65	39.45
.875	1902GK-ND	1903GK-ND	1904GK-ND	5.08	41.05
1.000	1902EK-ND	1903EK-ND	1904EK-ND	7.65	39.18

Hex Threaded Standoffs - Flame Retardant

Material: Monsanto 340 FR UL 94V-0 rating

Dim. L (Inch)	4-40 Thread Part No.	6-32 Thread Part No.	8-32 Thread Part No.	Pricing 10	Pricing 100
.250	8440AK-ND	8441AK-ND	8442AK-ND	5.37	43.30
.375	8440BK-ND	8441BK-ND	8442BK-ND	5.49	44.35
.500	8440CK-ND	8441CK-ND	8442CK-ND	5.71	45.95
.625	8440DK-ND	8441DK-ND	8442DK-ND	6.81	54.15
.750	8440EK-ND	8441EK-ND	8442EK-ND	7.80	54.53
.875	8440FK-ND	8441FK-ND	8442FK-ND	7.05	57.05
1.000	8440GK-ND	8441GK-ND	8442GK-ND	7.39	59.60

Round Thru-Hole Spacers

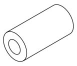

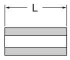

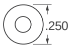

Material: Nylon 6/6

Dim. L (Inch)	#4 Screw .120 Hole Part No.	#6 Screw .140 Hole Part No.	#8 Screw .171 Hole Part No.	Pricing 10	Pricing 100
.125	875K-ND	883K-ND	891K-ND	1.27	9.50
.250	876K-ND	884K-ND	892K-ND	1.38	10.45
.375	877K-ND	885K-ND	893K-ND	1.46	12.95
.500	878K-ND	886K-ND	894K-ND	1.55	14.30
.625	879K-ND	887K-ND	895K-ND	1.67	14.95
.750	880K-ND	888K-ND	896K-ND	1.70	16.05
.875	881K-ND	889K-ND	897K-ND	1.84	17.75
1.000	882K-ND	890K-ND	898K-ND	2.06	19.35

Rubber Grommets

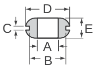

I.D. A (In.)	For Hole B (Inch)	For Panel C (Inch)	Dim. (Inch) D	Dim. (Inch) E	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500
.125	.187	.062	.312	.187	730K-ND	1.14	8.10	33.75
.125	.250	.062	.343	.187	733K-ND	1.03	7.30	31.75
.125	.437	.062	.625	.187	734K-ND	9.25	74.70	317.50
.125	.375	.093	.500	.312	735K-ND	3.85	27.15	115.50
.187	.312	.062	.437	.218	736K-ND	1.24	8.65	37.75
.187	.312	.062	.437	.218	731K-ND	1.24	8.65	37.75
.187	.281	.093	.437	.218	737K-ND	2.96	20.90	88.75
.250	.437	.062	.625	.187	738K-ND	3.07	21.70	92.75
.250	.375	.062	.562	.250	739K-ND	1.56	11.20	47.00
.250	.375	.093	.500	.250	740K-ND	2.66	18.65	79.75
.312	.562	.062	.812	.312	741K-ND	4.84	39.10	165.50
.312	.437	.062	.625	.281	742K-ND	2.15	15.15	64.75
.312	.437	.093	.625	.312	743K-ND	3.30	23.40	99.00
.375	.625	.062	.875	.312	744K-ND	5.20	41.85	178.50
.375	.500	.062	.625	.250	745K-ND	1.69	12.00	51.00
.437	.562	.062	.750	.250	732K-ND	2.22	14.80	64.75
.437	.687	.062	.937	.312	746K-ND	5.74	46.50	197.25
.500	.812	.062	1.062	.312	747K-ND	5.99	46.80	199.50
.500	1.250	.062	1.500	.25	748K-ND	7.30	58.80	250.00
.500	.750	.093	.968	.281	749K-ND	3.11	28.75	122.00
.562	.812	.062	1.062	.312	750K-ND	7.06	56.90	242.00
.625	.875	.062	1.125	.312	752K-ND	4.03	30.15	127.50
.625	1.250	.062	1.500	.250	753K-ND	10.60	85.50	363.25
.750	1.062	.062	1.375	.375	755K-ND	10.81	87.35	371.00
.750	1.437	.062	1.812	.375	756K-ND	22.46	191.80	815.75
.875	1.250	.062	1.625	.437	757K-ND	15.35	133.45	567.50

Threaded Mounting Brackets

Fig. 1
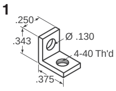

Fig. 2
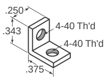

Fig. 3
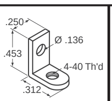

Fig. 4
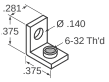

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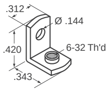

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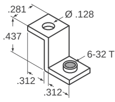

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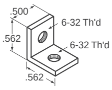

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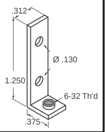

Fig. 9
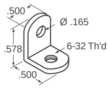

Fig. 10
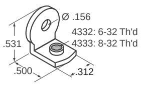

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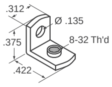

Fig. 12
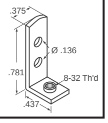

Fig.	Description	Digi-Key Part No.	Pricing 10	Pricing 100
1	.062 Steel, Zinc Plate	612K-ND	1.97	13.05
2	.062 Steel, Zinc Plate	621K-ND	2.54	16.90
3	.047 Brass, Tin Plate	616K-ND	3.91	31.10
4	.032 Brass, Nickel Plate	634K-ND	4.13	25.75
5	.032 Brass,Tin Plate	614K-ND	2.25	16.90
6	.032 Brass, Tin Plate	630K-ND	8.28	65.95
7	.062 Steel, Nickel Plate	4334K-ND	8.81	48.50
8	.062 Steel, Nickel Plate	708K-ND	6.79	55.05
9	.062 Steel, Tin Plate	617K-ND	3.86	30.75
10	.062 Brass, Nickel Plate	4332K-ND	6.32	57.15
10	.062 Brass, Nickel Plate	4333K-ND	6.32	57.15
11	.037 Brass, Tin Plate	611K-ND	4.31	34.35
12	.037 Steel, Tin Plate	631K-ND	3.77	30.05

Prepunched Insulating Boards

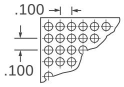

Dimension – Inch Width	Dimension – Inch Length	Digi-Key Part No.	Pricing 1	Pricing 10	Keystone Part No.
Perfboard — Holes .042” (1.07mm) Dia., Glass Epoxy					
2.00	4.50	3405K-ND	4.59	42.84	3405
2.00	6.00	3406K-ND	6.00	56.00	3406
2.75	17.00	3407K-ND	18.00	168.00	3407
3.00	4.50	3408K-ND	6.27	58.52	3408
4.50	6.00	3409K-ND	8.76	81.76	3409
4.50	6.50	3410K-ND	10.17	94.92	3410
4.50	8.50	3411K-ND	11.01	102.76	3411
4.50	17.00	3412K-ND	24.69	230.44	3412
6.00	17.00	3413K-ND	33.24	310.24	3413

Miscellaneous Hardware

Description	Digi-Key Part No.	Pricing 1	Pricing 10	Keystone Part No.
LED Spacer Mounts				
Universal Tri-Lead T-1 & T-1 3/4, 0.120”L	8900K-ND	.15	1.38	8900
Universal Tri-Lead T-1 & T-1 3/4, 0.440”L	8918K-ND	.17	1.64	8918
Self-Aligning Bi-Lead T-1, 0.140”L	7352K-ND	.15	1.38	7352
Self-Aligning Bi-Lead T-1, 0.250”L	8318K-ND	.15	1.42	8318
Self-Aligning Bi-Lead T-1 3/4, 0.340”L	8323K-ND	.16	1.48	8323
Spacers				
Aluminum Economy, #6 screw, 0.625”L	410K-ND	.12	1.14	410
Round, Swage Clear, #6 screw, 0.109”L	5064-2K-ND	.46	4.03	5064-2
Threaded Standoff				
Force-Fit, 4-40 Thread, 0.065”L	4861K-ND	.63	5.54	4861
Phenolic, 6-32 Thread, 0.750”L	386K-ND	.76	6.68	386
Round Swage, 2~56 Thread, 0.125”L	1589-2K-ND	.36	3.43	1589-2
Hex Swage, 6-32 Thread, 0.375”L	1622-2K-ND	.49	4.28	1622-2
PCI Computer Bracket	9203K-ND	1.92	17.70	9203K

ISO 9002 CERTIFIED MANUFACTURER
KEYSTONE
ELECTRONICS CORP

Threaded Standoffs

- **Brass:** ASTM-B16
- **Plating:** Zinc (ASTM B633)
- **Aluminum:** QQ-A-225/3, Alloy 2011-T3
- **Plating:** Clear Iridite (Mil-C-5541)

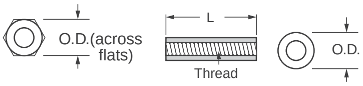

Note: Spacers over 1.000 long are tapped .375 deep each end.

Thread	O.D.	"L" Length (Inch)	Hex Thread Part No.	Pricing 10	100	Round Thread Part No.	Pricing 10	100
			Aluminum Iridite Finish					
2-56	.156	.187	1797AK-ND	4.99	40.20	1801AK-ND	4.68	37.80
		.250	1797BK-ND	5.36	43.15	1801BK-ND	4.63	37.55
		.312	1797CK-ND	5.57	44.95	1801CK-ND	5.02	40.65
		.375	1797DK-ND	4.23	34.15	1801DK-ND	5.80	46.80
4-40	.187	.250	1891K-ND	3.02	18.05	2025K-ND	2.99	17.65
		.375	1892K-ND	3.55	21.00	2026K-ND	3.46	20.80
		.500	1893K-ND	3.91	24.50	2027K-ND	3.81	22.65
		.625	1894K-ND	4.02	26.65	2028K-ND	3.94	24.80
		.750	1895K-ND	4.45	29.95	2029K-ND	4.39	28.75
		.875	1896K-ND	4.90	33.10	2030K-ND	4.81	31.00
		1.000	1897K-ND	5.37	43.30	2031K-ND	5.37	43.30
4-40	.250	.250	2201K-ND	2.92	17.75	3478K-ND	2.65	15.25
		.375	2202K-ND	3.27	19.50	3479K-ND	2.93	17.75
		.500	2203K-ND	3.62	21.60	3480K-ND	3.30	19.15
		.625	1808K-ND	3.90	23.70	1839K-ND	3.58	28.15
		.750	2204K-ND	3.86	25.80	3481K-ND	4.02	23.70
		.875	1809K-ND	4.39	35.70	1846K-ND	4.33	34.90
		1.000	2205K-ND	4.90	39.70	3482K-ND	4.78	38.65
		1.500	2206K-ND	8.35	67.25	3483K-ND	8.07	65.15
		2.000	2207K-ND	9.63	77.85	3484K-ND	9.35	75.40
6-32	.250	.250	2208K-ND	2.92	17.75	3485K-ND	2.65	15.25
		.375	2209K-ND	3.27	19.50	3486K-ND	2.93	17.75
		.500	2210K-ND	3.62	21.60	3487K-ND	3.30	19.15
		.625	1813K-ND	4.12	24.15	1847K-ND	3.92	27.70
		.750	2211K-ND	3.86	25.80	3488K-ND	4.02	23.70
		.875	1816K-ND	4.11	27.35	1848K-ND	3.86	25.90
		1.000	2212K-ND	4.90	39.70	3489K-ND	4.78	38.65
		1.250	1818K-ND	7.39	59.60	1853K-ND	7.25	58.50
		1.500	2213K-ND	8.35	67.25	3490K-ND	8.07	65.15
		1.750	1819K-ND	8.71	70.40	1855K-ND	8.57	69.25
		2.000	2214K-ND	9.63	77.85	3491K-ND	9.35	75.40
		2.250	1820K-ND	10.69	86.25	1856K-ND	10.41	83.95
		2.500	1825K-ND	10.85	94.45	1857K-ND	10.59	92.15
8-32	.250	.250	2215K-ND	2.92	17.75	3492K-ND	2.65	15.25
		.375	2216K-ND	3.27	19.50	3493K-ND	2.93	17.75
		.500	2217K-ND	3.62	21.60	3494K-ND	3.30	19.15
		.625	1827K-ND	3.99	28.15	1858K-ND	3.58	21.80
		.750	2218K-ND	3.77	30.25	3495K-ND	4.02	23.70
		.875	1828K-ND	4.68	37.70	1859K-ND	3.86	25.90
		1.000	2219K-ND	4.90	39.70	3496K-ND	4.78	38.65
		1.500	2220K-ND	8.35	67.25	3497K-ND	8.07	65.15
		2.000	2221K-ND	9.63	77.85	3498K-ND	9.35	75.40
8-32	.375	.375	1926AK-ND	4.31	34.90	2315AK-ND	6.38	54.55
		.500	1926BK-ND	4.52	36.35	2315BK-ND	7.16	57.75
		.625	1926CK-ND	5.91	47.60	2315CK-ND	7.72	62.25
		.750	1926DK-ND	6.87	55.35	2315DK-ND	8.28	66.75
		1.000	1926EK-ND	7.74	66.50	2315EK-ND	9.17	79.06
			Brass Zinc Plate					
2-56	.156	.187	1798AK-ND	5.85	47.25	1802AK-ND	4.63	37.55
		.250	1798BK-ND	4.91	39.65	1802BK-ND	4.98	40.20
		.312	1798CK-ND	7.58	61.30	1802CK-ND	5.16	41.75
		.375	1798DK-ND	7.05	56.90	1802DK-ND	5.16	41.75
4-40	.187	.250	1450K-ND	3.39	19.15	1547K-ND	3.40	17.65
		.375	1803K-ND	3.97	21.95	1864K-ND	3.92	26.65
		.500	1656K-ND	4.07	25.95	1657K-ND	4.03	25.50
		.625	1804K-ND	4.95	35.00	1865K-ND	4.93	30.05
		.750	1656AK-ND	5.59	33.20	1657AK-ND	5.45	32.35
		.875	1805K-ND	6.87	42.95	1866K-ND	6.85	41.45
		1.000	1656BK-ND	7.22	42.95	1657BK-ND	7.15	41.15
4-40	.250	.250	1450AK-ND	3.16	17.75	1547AK-ND	3.65	25.70
		.375	1450BK-ND	3.96	20.55	1547BK-ND	4.26	30.05
		.500	1450CK-ND	4.01	25.80	1547CK-ND	4.55	36.65
		.625	1829K-ND	5.41	34.90	1867K-ND	5.14	41.45
		.750	1450DK-ND	6.19	40.75	1547DK-ND	5.75	46.50
		.875	1830K-ND	6.59	42.40	1876K-ND	6.49	52.35
		1.000	1450EK-ND	2.96	19.15	1547EK-ND	2.98	17.65
		1.500	1831K-ND	12.25	106.55	1877K-ND	11.89	103.30
		2.000	1832K-ND	12.56	109.25	1878K-ND	12.15	105.60
6-32	.250	.250	1451AK-ND	3.16	17.75	1548AK-ND	3.15	16.30
		.375	1451BK-ND	3.96	20.55	1548BK-ND	3.46	19.15
		.500	1451CK-ND	4.01	25.80	1548CK-ND	4.03	24.80
		.625	1451DK-ND	5.41	34.90	1548DK-ND	4.40	33.20
		.750	1451EK-ND	5.31	40.34	1548EK-ND	4.79	39.41
		.875	1833K-ND	6.59	42.40	1879K-ND	6.18	41.35
		1.000	1635K-ND	6.97	41.15	1548FK-ND	6.42	40.55
		1.250	1636K-ND	9.08	73.25	1881K-ND	8.91	71.95
		1.500	1637K-ND	10.49	84.60	1882K-ND	11.89	103.30
		1.750	1638K-ND	12.41	107.90	1883K-ND	12.04	104.65
		2.000	1639K-ND	12.56	109.25	1884K-ND	12.15	105.60
		2.250	1642K-ND	12.81	111.40	1885K-ND	12.46	108.20
		2.500	1643K-ND	13.18	114.50	1886K-ND	12.81	111.40
8-32	.250	.250	1474AK-ND	3.16	19.80	1692AK-ND	3.81	30.75
		.375	1474BK-ND	3.96	20.55	1692BK-ND	4.00	32.35
		.500	1474CK-ND	4.01	25.80	1692CK-ND	5.09	41.10
		.625	1834K-ND	5.41	34.90	1887K-ND	5.83	46.90
		.750	1474DK-ND	6.19	40.75	1692DK-ND	6.90	55.65
		.875	1836K-ND	6.59	42.40	1888K-ND	6.60	53.45
		1.000	1474EK-ND	5.97	40.81	1692EK-ND	6.09	56.80
		1.500	1837K-ND	12.25	106.55	1889K-ND	11.89	103.30
		2.000	1838K-ND	12.56	109.25	1899K-ND	12.77	111.15
8-32	.375	.375	1452AK-ND	5.56	44.85	1549AK-ND	7.50	60.60
		.500	1452BK-ND	7.15	57.60	1549BK-ND	8.09	65.25
		.625	1452CK-ND	9.24	74.50	1549CK-ND	8.90	71.95
		.750	1452DK-ND	9.96	80.40	1549DK-ND	9.78	78.95
		1.000	1452EK-ND	11.94	102.64	1549EK-ND	10.30	96.03

1/4" Hex Threaded Standoff Kit

Brass - Assortment of 1500 in 1/4", 3/8", 1/2", 3/4" and 1" lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.
STH-14KIT-ND............................. **$449.97**

Aluminum - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.
STH-22KIT-ND............................. **$650.91**

1/4" Round Threaded Standoff Kit

Brass - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.
STR-15KIT-ND............................. **$409.04**

Aluminum - Assortment of 1500 pieces in 1/4", 3/8", 1/2", 3/4" and 1" lengths with thread sizes of 4-40, 6-32 and 8-32. 100 pieces of each size complete with cabinet.
STR-35KIT-ND............................. **$319.07**

Male/Female .250" Hex Threaded Standoffs

- **Brass:** ASTM-B16
- **Plating:** Nickel (QQ-N-290)
- **Aluminum:** QQ-Q-225/3
- **Plating:** Clear Iridite (Mil-C-5541)

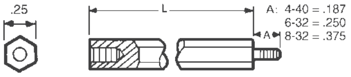

Length (Inch)	4-40 Thread Part No.	Pricing 10	100	6-32 Thread Part No.	Pricing 10	100	8-32 Thread Part No.	Pricing 10	100
				Aluminum (Iridite MIL-C-5441)					
.250	8714K-ND*	3.39	23.60	8717K-ND*	3.76	26.30	—	—	—
.375	8400K-ND†	3.85	26.75	8413K-ND†	3.98	27.80	8426K-ND†	4.61	36.65
.500	8401K-ND	4.69	37.40	8414K-ND	4.03	28.05	8427K-ND	4.69	37.40
.625	8402K-ND	5.05	40.10	8415K-ND	4.45	35.40	8428K-ND	5.05	40.10
.750	8403K-ND	5.13	40.85	8416K-ND	4.49	35.80	8429K-ND	5.37	42.80
.875	8404K-ND	5.57	44.40	8417K-ND	4.89	38.95	8430K-ND	5.97	47.50
1.000	8405K-ND	5.89	46.90	8418K-ND	5.13	40.85	8431K-ND	6.33	50.40
1.125	8406K-ND	7.22	57.35	8419K-ND	5.29	42.10	8432K-ND	8.49	68.65
1.250	8407K-ND	7.29	58.10	8420K-ND	5.65	44.95	8433K-ND	8.80	71.00
1.375	8408K-ND	8.55	69.00	8421K-ND	6.41	51.05	8434K-ND	9.50	76.65
1.500	8409K-ND	8.74	70.50	8422K-ND	7.33	58.50	8435K-ND	9.60	77.50
1.625	8410K-ND	9.00	72.65	8423K-ND	7.45	59.25	8436K-ND	9.69	78.15
1.750	8411K-ND	9.20	74.20	8424K-ND	7.81	62.25	8437K-ND	9.79	79.05
2.000	8412K-ND	9.50	76.65	8425K-ND	7.97	63.60	8438K-ND	9.90	79.95
				Brass					
.250	8713K-ND*	3.94	27.45	8716K-ND*	3.85	26.75	—	—	—
.375	7200K-ND†	3.81	30.25	7210K-ND†	3.93	31.35	7220K-ND†	4.57	36.25
.500	1944K-ND	4.97	39.60	1952K-ND	4.29	34.15	1957K-ND	4.61	36.65
.625	1945K-ND	5.05	40.10	1953K-ND	5.45	43.30	1958K-ND	6.41	51.05
.750	1946K-ND	6.01	47.85	1954K-ND	5.73	45.65	1959K-ND	6.73	53.75
.875	7201K-ND	6.09	48.50	7211K-ND	6.57	52.35	7221K-ND	7.37	58.70
1.000	1947K-ND	6.73	53.75	1644K-ND	6.77	54.00	1960K-ND	7.74	61.60
1.125	7202K-ND	7.29	58.10	7212K-ND	7.22	57.35	7222K-ND	8.30	66.85
1.250	1948K-ND	10.34	83.60	1955K-ND	8.54	68.00	1961K-ND	10.34	83.60
1.375	1949K-ND	10.59	85.50	1956K-ND	9.26	73.75	1962K-ND	10.59	85.50
1.500	1950K-ND	11.09	89.55	1645K-ND	9.37	74.65	1963K-ND	11.09	89.55
1.625	7203K-ND	11.19	90.35	7214K-ND	11.19	90.35	7224K-ND	11.19	90.35
1.750	7205K-ND	11.60	100.95	7215K-ND	11.60	100.95	7225K-ND	11.60	100.95
2.000	1951K-ND	11.69	101.65	1646K-ND	11.69	101.65	1964K-ND	11.69	101.65
.600	8799K-ND‡	5.01	39.90	—	—	—	—	—	—
				Nylon 6/6					
.250	4800K-ND	3.95	27.90	4814K-ND*	3.95	27.90	4828K-ND*	3.95	27.90
.375	4801K-ND	4.03	28.50	4815K-ND	4.03	28.50	4829K-ND†	4.03	28.50
.500	4802K-ND	4.19	29.55	4816K-ND	4.19	29.55	4830K-ND	4.19	29.55
.625	4803K-ND	4.28	30.15	4817K-ND	4.28	30.15	4831K-ND	4.28	30.15
.750	4804K-ND	3.82	30.75	4818K-ND	3.82	30.75	4832K-ND	3.82	30.75
.875	4805K-ND	3.89	31.35	4819K-ND	3.89	31.35	4833K-ND	3.89	31.35
1.000	4806K-ND	3.96	31.95	4820K-ND	3.96	31.95	4834K-ND	3.96	31.95
1.125	4807K-ND	4.00	32.25	4821K-ND	4.00	32.25	4835K-ND	4.00	32.25
1.250	4808K-ND	4.03	32.50	4822K-ND	4.03	32.50	4836K-ND	4.03	32.50
1.375	4809K-ND	4.10	33.10	4823K-ND	4.10	33.10	4837K-ND	4.10	33.10
1.500	4810K-ND	4.17	33.55	4824K-ND	4.17	33.55	4838K-ND	4.17	33.55
1.625	4811K-ND	4.24	34.25	4825K-ND	4.24	34.25	4839K-ND	4.24	34.25
1.750	4812K-ND	4.31	34.90	4826K-ND	4.31	34.90	4840K-ND	4.31	34.90
2.000	4813K-ND	4.38	35.40	4827K-ND	4.38	35.40	4841K-ND	4.38	35.40
.600	4799K-ND‡	4.24	29.85	—	—	—	—	—	—
				Stainless Steel					
.250	8712K-ND	15.82	146.05	—	—	—	—	—	—
.375	2087K-ND	16.55	152.80	—	—	—	—	—	—
1.000	2092K-ND	19.88	186.60	—	—	—	—	—	—
1.250	—	—	—	2126K-ND	22.93	211.70	—	—	—

* Internal Thread .130/.150 deep † Internal Thread .250 deep ‡ PC/104 and PC/104 Plus

Hex Brass Standoff Kit Assortment of 750 in 1/2", 3/4", 1", 1-1/4", and 1-1/2" lengths with thread sizes of 4-40, 6-32 and 8-32. 50 pieces of each size complete with cabinet.
STH-19KIT-ND.. **$801.09**

Metric 5mm Hex Threaded Standoffs

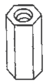

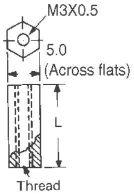

"L" Length (mm)	Digi-Key Part No.	Pricing 10	100
5	4390K-ND	3.80	30.75
10	4391K-ND	4.51	36.40
15	4392K-ND	5.01	40.40
20	4393K-ND	5.91	47.60
25	4394K-ND	6.48	52.35

Metric Male/Female 5mm Hex Threaded Standoffs

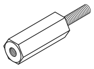

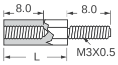

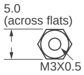

"L" Length (mm)	Digi-Key Part No.	Pricing 10	100
10	4313K-ND	5.79	46.70
12	4314K-ND	5.94	47.85
15	4315K-ND	6.20	50.00
18	4316K-ND	6.69	54.15
20	4317K-ND	6.89	55.65
25	4318K-ND	7.59	61.30

Ceramic Standoffs

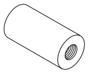

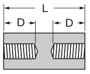

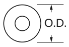

Thread	O.D.	"L" Length (Inch)	D (2) Depth	Digi-Key Part No.	Pricing 10	100
6-32	.250	.250	thru	7710K-ND	22.32	154.45
	.250	.500	.156	7711K-ND	25.38	172.60
	.375	.375	.156	7712K-ND	21.14	145.25
	.375	.500	.187	7713K-ND	21.75	149.95
	.500	.500	.140	7714K-ND	23.58	163.55
	.500	.750	.250	7715K-ND	24.78	172.60
	.500	1.000	.375	7716K-ND	26.57	181.65
	.500	1.500	.562	7717K-ND	31.40	218.10
	.500	2.500	.500	7718K-ND	37.77	277.15
1/4-20	.750	2.500	.750	7719K-ND	52.64	395.10
	.750	4.000	.750	7720K-ND	63.56	476.90

Hinged Standoffs

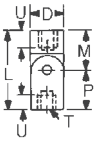

Female/Female

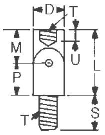

Male/Female

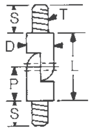

Male/Male

T Thread	D Dia. (Inch)	Dimensions (Inch) L	S	U	M	P	Digi-Key Part No.	Pricing 10	100
Female/Female-Hinge									
4-40	.187	.750	—	.172	.375	.375	351K-ND	13.55	77.35
4-40	.187	1.000	—	.250	.375	.625	352K-ND	14.44	82.50
6-32	.250	.750	—	.172	.375	.375	353K-ND	19.32	110.10
6-32	.250	1.000	—	.250	.375	.625	354K-ND	19.74	112.70
8-32	.250	.750	—	.172	.375	.375	355K-ND	17.46	99.90
8-32	.250	1.000	—	.250	.375	.625	356K-ND	18.38	105.00
Male/Female-Hinge									
4-40	.187	.625	.250	.172	.375	.250	333K-ND	15.88	90.70
4-40	.187	.875	.250	.250	.625	.250	334K-ND	16.78	95.60
6-32	.250	.625	.312	.172	.375	.250	335K-ND	19.11	109.15
6-32	.250	.875	.312	.250	.625	.250	336K-ND	19.52	111.55
Male/Male-Hinge									
4-40	.187	.500	.250	—	—	.250	357K-ND	18.22	104.20
6-32	.250	.500	.312	—	—	.250	358K-ND	18.91	107.90
8-32	.250	.500	.312	—	—	.250	359K-ND	21.22	121.05

Metal Cable Clamps

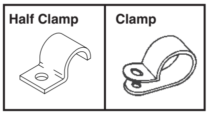

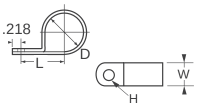

Dimensions – Inch D	L	W	H	Digi-Key Part No.	Pricing 10	100
Steel Half Clamps						
.125	.437	.500	.218	8140K-ND	1.47	10.45
.187	.437	.500	.218	8141K-ND	1.55	11.30
.250	.437	.500	.218	8142K-ND	1.66	11.70
.312	.500	.500	.218	8143K-ND	1.79	12.65
.375	.531	.625	.218	8144K-ND	2.09	14.60
.437	.562	.625	.218	8145K-ND	2.20	15.50
.500	.625	.625	.218	8146K-ND	2.74	19.35
.562	.687	.625	.218	8147K-ND	2.81	19.90
.625	.750	.625	.218	8148K-ND	2.94	20.90
.687	.812	.625	.218	8149K-ND	3.02	21.40
.750	.812	.625	.218	8150K-ND	3.14	22.15
.812	.875	.625	.218	8151K-ND	3.26	23.10
.875	.937	.750	.281	8152K-ND	3.56	25.10
.937	.968	.750	.281	8153K-ND	3.69	26.20
1.000	1.000	.750	.281	8154K-ND	3.83	27.00
Insulated Steel Half Clamps						
.187	.437	.500	.218	8160K-ND	3.99	27.80
.250	.500	.500	.218	8161K-ND	3.95	31.45
.312	.531	.625	.218	8162K-ND	4.47	35.55
.375	.562	.625	.218	8163K-ND	4.67	37.20
.437	.625	.625	.218	8164K-ND	5.27	41.85
.500	.687	.625	.218	8165K-ND	3.87	30.90
.562	.750	.625	.218	8166K-ND	4.01	31.95
.625	.812	.625	.218	8167K-ND	4.11	32.90
.687	.812	.625	.218	8168K-ND	4.26	33.90
.750	.875	.625	.218	8169K-ND	4.64	37.00
.812	.937	.750	.281	8170K-ND	5.84	46.50
.875	.968	.750	.281	8171K-ND	6.07	48.25
.937	1.000	.750	.281	8172K-ND	7.14	56.80
1.000	1.062	.750	.281	8173K-ND	6.73	53.60
Steel Clamps						
.250	.406	.500	.203	8101K-ND	1.82	12.95
.312	.437	.500	.203	8102K-ND	1.90	13.40
.375	.468	.500	.203	8103K-ND	1.97	14.00
.437	.500	.500	.203	8104K-ND	2.05	14.50
.500	.531	.500	.203	8105K-ND	2.15	15.20
.562	.562	.500	.203	8106K-ND	2.26	16.05
.625	.594	.500	.203	8107K-ND	2.34	16.50
.687	.625	.500	.203	8108K-ND	2.42	17.15
.750	.656	.500	.203	8109K-ND	2.49	17.65
.812	.687	.500	.203	8110K-ND	2.57	18.05
.875	.718	.500	.203	8111K-ND	2.66	18.80
.937	.750	.500	.203	8112KS-ND	2.75	19.50
1.000	.781	.500	.203	8113K-ND	2.82	19.95
Insulated Steel Clamps						
.187	.406	.500	.203	8121K-ND	3.41	24.05
.250	.437	.500	.203	8122K-ND	3.52	24.90
.312	.468	.500	.203	8123K-ND	3.66	25.95
.375	.500	.500	.203	8124KS-ND	3.78	26.65
.437	.531	.500	.203	8125K-ND	3.92	27.90
.500	.562	.500	.203	8126K-ND	4.06	28.75
.562	.594	.500	.203	8127K-ND	4.21	29.95
.625	.625	.500	.203	8128K-ND	3.81	30.65
.687	.656	.500	.203	8129K-ND	3.91	31.55
.750	.687	.500	.203	8130K-ND	4.03	32.65
.812	.718	.500	.203	8131K-ND	4.13	33.35
.875	.750	.500	.203	8132K-ND	4.25	34.35
.937	.781	.500	.203	8133K-ND	4.37	35.10
1.000	.812	.500	.203	8134K-ND	4.48	36.25

Nylon Cable Clamps

Ideal for securing, insulating and routing cable wiring, piping, tubing, components and fibre optics. Made of .050" thick nylon 6/6, white.

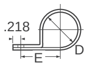

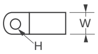

Dimensions – Inch D	E	W	H	Digi-Key Part No.	Pricing 100	500	1,000
.125	.325	.375	.140	7620K-ND	4.70	20.50	23.60
.125	.325	.375	.203	7621K-ND	4.70	20.50	23.60
.187	.380	.375	.140	7622K-ND	4.80	21.00	23.90
.187	.380	.375	.203	7623K-ND	4.80	21.00	23.90
.250	.410	.375	.140	7624K-ND	4.89	20.94	24.54
.250	.410	.375	.203	7625K-ND	4.90	21.00	24.80
.312	.445	.375	.140	7626K-ND	4.90	21.75	25.35
.312	.445	.375	.203	7627K-ND	4.90	21.75	25.35
.375	.475	.375	.140	7628K-ND	5.30	22.50	27.25
.375	.475	.375	.203	7629K-ND	5.30	22.50	27.25
.437	.525	.375	.140	7630K-ND	5.65	24.00	28.25
.437	.525	.375	.203	7631K-ND	5.65	24.00	28.25
.500	.550	.375	.140	7632K-ND	5.65	24.50	29.05
.500	.550	.375	.203	7633K-ND	5.65	24.50	29.05
.562	.625	.500	.203	7634K-ND	8.75	38.00	44.50
.625	.660	.500	.203	7635K-ND	9.40	39.25	46.70
.750	.785	.500	.203	7636K-ND	10.45	44.25	53.60
.875	.845	.500	.203	7637K-ND	11.40	48.00	57.15
1.000	.910	.500	.203	7638K-ND	11.70	50.00	59.70
1.125	.970	.500	.203	7639K-ND	16.75	71.00	84.15
1.125	1.060	.500	.203	7640K-ND	17.95	76.50	91.45

Recessed Bumpers

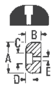

Fig. 1

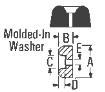

Fig. 2

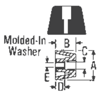

Fig. 3

Provides excellent traction and shock absorbing qualities. Materials: Rubber, BUNA S, (fig. 1 & 2) Vinyl, (fig. 3).

Fig.	Dimensions (Inch) A	B	C	D	E	Screw Size	Digi-Key Part No.	Pricing 10	100
1	.500	.250	.250	.125	.125	#4	720K-ND	1.98	14.00
	.625	.312	.250	.187	.125	#4	721K-ND	3.14	22.15
	.718	.437	.250	.218	.125	#4	722K-ND	5.51	44.50
2	.937	.375	.375	.187	.187	#8	723K-ND	5.28	42.80
3	.687	.250	.343	.125	.155	#6	724K-ND*	4.06	32.90
	.875	.312	.406	.187	.187	#8	725K-ND*	7.50	60.60
	1.062	.437	.468	.234	.200	#10	726K-ND*	9.34	75.30
	.562	.375	.218	.187	.115	#4	727K-ND	4.91	39.65
	.750	.437	.265	.250	.148	#6	728K-ND	5.54	44.70
	.937	.625	.359	.297	.174	#8	729K-ND	8.19	66.10

* Gray — all others black.

Flat Washers

Fibre:
Commercial per ASTM D710, Grade CH

Nylon:
Grade 6/6 per ASTM D4066

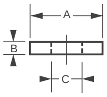

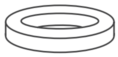

Dimensions – Inch A O.D.	B Thick	C I.D.	Digi-Key Part No.	Pricing 100	500	1,000
Nylon Material — # 2 Screw Size						
.250	.032	.098	3347K-ND	2.95	13.00	12.95
Fibre Material — #4 Screw Size						
.250	.032	.120	3116K-ND	3.05	13.50	—
.312	.032	.120	348K-ND	3.05	13.50	—
.375	.032	.120	3117K-ND	3.15	13.50	—
.250	.047	.120	3154K-ND	3.05	13.50	—
.312	.047	.120	3155K-ND	3.05	13.50	13.60
.375	.047	.120	3156K-ND	3.45	14.50	15.50
.250	.062	.120	3368K-ND	3.05	13.50	13.65
.312	.062	.120	3196K-ND	3.05	13.50	16.95
.375	.062	.120	3197K-ND	3.15	13.50	16.05
Nylon Material — #4 Screw Size						
.250	.032	.120	3348K-ND	2.95	13.00	—
.312	.032	.120	3359K-ND	3.55	15.00	18.05
.375	.032	.120	3118K-ND	3.75	16.50	19.35
.250	.047	.120	345K-ND	3.55	14.75	—
.312	.047	.120	3157K-ND	3.00	13.00	17.45
.375	.047	.120	3158K-ND	3.00	13.00	19.25
.250	.062	.120	3358K-ND	3.00	13.00	17.45
.312	.062	.120	3198K-ND	3.55	15.00	23.10
.375	.062	.120	3200K-ND	3.55	14.75	21.80
Fibre Material — #6 Screw Size						
.250	.032	.140	3119K-ND	3.05	13.50	—
.312	.032	.140	3120K-ND	3.05	13.50	—
.375	.032	.140	3121K-ND	3.15	13.50	—
.250	.047	.140	3159K-ND	3.05	13.50	—
.312	.047	.140	3160K-ND	3.05	13.50	13.60
.375	.047	.140	3161K-ND	3.45	14.50	15.50
.250	.062	.140	3369K-ND	3.05	13.50	13.65
.312	.062	.140	3370K-ND	3.05	13.50	14.80
.375	.062	.140	3201K-ND	3.15	13.50	16.05
Nylon Material — #6 Screw Size						
.250	.032	.140	3122K-ND	2.95	13.00	—
.312	.032	.140	3349K-ND	2.95	13.00	14.40
.375	.032	.140	3123K-ND	3.75	16.50	19.35
.250	.047	.140	3162K-ND	2.95	13.00	14.00
.312	.047	.140	346K-ND	3.75	15.75	17.45
.375	.047	.140	3163K-ND	3.00	13.00	19.25
.250	.062	.140	3360K-ND	2.95	13.00	17.45
.312	.062	.140	3361K-ND	3.55	15.00	23.10
.375	.062	.140	3202K-ND	3.55	14.75	21.80
Fibre Material — #8 Screw Size						
.312	.032	.171	3124K-ND	3.05	13.50	12.20

Nylon Shoulder Washers/ Bushings

Material:
Nylon, Grades 6/6 per ASTM D4066

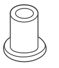

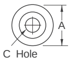

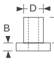

Dimensions – Inch L	A	B	C	D	Digi-Key Part No.	Pricing 100	500
#4 Screw Size							
.031	.218	.040	.115	.135	3049K-ND	4.35	18.25
.047	.250	.032	.115	.185	7681K-ND	5.65	24.50
.093	.235	.047	.115	.145	3053K-ND	8.20	34.50
.125	.235	.047	.115	.145	3102K-ND	8.20	34.50
.18	.235	.047	.115	.145	3103K-ND	8.20	34.50
.250	.235	.047	.115	.145	340K-ND	9.25	39.25
#6 Screw Size							
.032	.385	.062	.145	.240	7682K-ND	6.45	26.50
.032	.250	.062	.140	.187	7683K-ND	5.45	22.75
.032	.312	.062	.140	.187	7684K-ND	5.95	25.00
.125	.290	.047	.140	.170	3054K-ND	8.20	34.50
.187	.290	.047	.140	.170	3104K-ND	8.55	37.00
.250	.290	.047	.140	.170	341K-ND	9.25	39.25
.500	.290	.047	.140	.170	3055K-ND	9.40	39.75

BUILDING FASTENERS

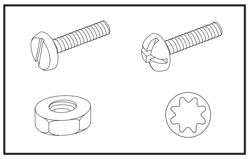

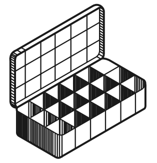

Digi-Key® Electronic Hardware Kits come complete with a divided plastic box for easy storage.

Zinc Plated Nuts and Washers

Description	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
No. 2 - 56	H212-ND†★	1.31	10.51
No. 4 - 40	H216-ND†★	.93	7.44
No. 6 - 32	H220-ND◆†★§	1.44	11.52
No. 8 - 32	H224-ND◆†★§	1.95	15.60
No. 10 - 32	H228-ND◆§	1.98	15.84
Internal Tooth Lock Washers			
No. 2	H232-ND†★	7.41	59.28
No. 4	H236-ND†★	.97	7.78
No. 6	H240-ND◆†★§	1.13	9.07
No. 8	H244-ND◆†★§	1.20	9.60
No. 10	H248-ND◆§	1.47	11.76
Flat Washers			
No. 2	H776-ND	2.70	21.60
No. 4	H777-ND	2.81	22.46
No. 6	H778-ND	.97	7.78
No. 8	H779-ND	1.30	10.37
No. 10	H780-ND	1.62	12.96

Phillips Panhead Sheet Metal Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
4 x 3/8	H800-ND	1.56	12.48
4 x 1/2	H801-ND	2.40	19.20
4 x 3/4	H802-ND	2.55	20.40
6 x 3/8	H803-ND	1.85	14.78
6 x 1/2	H804-ND	2.46	19.68
6 x 3/4	H805-ND	2.60	20.83
8 x 3/8	H806-ND	2.10	16.80
8 x1/2	H807-ND	2.76	22.08
8 x 3/4	H808-ND	4.41	35.28

Hex Head Sheet Metal Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
4 x 3/8	H809-ND	9.72	77.76
4 x 1/2	H810-ND	10.73	85.87
4 x 3/4	H811-ND	13.38	107.04
6 x 3/8	H812-ND	5.58	44.64
6 x 1/2	H813-ND	7.60	60.82
6 x 3/4	H814-ND	9.54	76.32
8 x 3/8	H815-ND	7.84	62.74
8 x1/2	H816-ND	8.16	65.28
8 x 3/4	H817-ND	9.95	79.63

Phillips Panhead Machine Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H330-ND†	6.39	51.12
2-56 x 1/2	H334-ND†	4.64	37.15
2-56 x 3/4	H338-ND	8.62	68.93
4-40 x 1/4	H342-ND†	2.98	23.81
4-40 x 5/16	H343-ND	1.92	15.36
4-40 x 3/8	H781-ND	1.62	12.96
4-40 x 1/2	H346-ND†	1.37	10.99
4-40 x 5/8	H348-ND	2.28	18.24
4-40 x 3/4	H350-ND	2.13	17.04
6-32 x 1/4	H354-ND†	1.92	15.36
6-32 x 5/16	H355-ND	2.10	16.80
6-32 x 3/8	H356-ND◆	2.22	17.76
6-32 x 7/16	H357-ND	4.74	37.92
6-32 x 1/2	H360-ND†	2.28	18.24
6-32 x 5/8	H364-ND◆	2.34	18.72
6-32 x 3/4	H368-ND◆	2.37	18.96
6-32 x 1	H372-ND◆	2.63	21.07
8-32 x 1/4	H376-ND	2.01	16.08
8-32 x 3/8	H380-ND†	2.15	17.23
8-32 x 1/2	H384-ND◆	2.85	22.80
8-32 x 5/8	H388-ND†	2.94	23.52
8-32 x 3/4	H392-ND◆	2.97	23.76
8-32 x 1	H396-ND◆	3.23	25.87
10-32 x 1/2	H400-ND◆	3.75	30.00
10-32 x 3/4	H404-ND◆	4.06	32.45
10-32 x 1	H408-ND◆	5.48	43.87

Slotted Panhead Machine Screws

Steel, Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H130-ND★	8.18	65.42
2-56 x 1/2	H134-ND★	4.64	37.15
2-56 x 3/4	H138-ND	11.23	89.86
4-36 x 1/2	H140-ND	2.40	19.20
4-40 x 1/4	H142-ND★	2.27	18.14
4-40 x 5/16	H143-ND	1.89	15.12
4-40 x 1/2	H146-ND★	1.37	10.99
4-40 x 5/8	H148-ND	1.52	12.14
4-40 x 3/4	H150-ND	1.68	13.44
6-32 x 1/4	H154-ND★	1.48	11.81
6-32 x 5/16	H155-ND	1.54	12.34
6-32 x 3/8	H156-ND§	1.59	12.72
6-32 x 7/16	H157-ND	1.65	13.20
6-32 x 1/2	H160-ND★	1.69	13.54
6-32 x 5/8	H164-ND§	2.58	20.64
6-32 x 3/4	H168-ND§	1.95	15.60
6-32 x 1	H172-ND§	2.29	18.34
8-32 x 1/4	H176-ND	2.01	16.08
8-32 x 3/8	H180-ND★	2.15	17.23
8-32 x 1/2	H184-ND§	2.27	18.19
8-32 x 5/8	H188-ND★	2.50	19.97
8-32 x 3/4	H192-ND§	2.71	21.70
8-32 x 1	H196-ND§	3.23	25.87
10-32 x 1/2	H200-ND§	3.30	26.40
10-32 x 3/4	H204-ND§	4.06	32.45
10-32 x 1	H208-ND§	5.48	43.87

Digi-Key® Zinc Plated Hardware Kits

Sizes #2, #4, #6, and #8.
1600 pieces total.
100 pieces each of the following:

★1600-KIT-ND (Slotted)... **$17.95**
†1602-KIT-ND (Phillips) ... **$17.95**

Sizes #6, #8, and #10.
1600 pieces total.
100 pieces each of the following:

§1601-KIT-ND (Slotted) **$27.95**
◆1603-KIT-ND (Phillips) **$27.78**

Phillips Nylon Machine Screws

Nylon 66 - Melting Point is 500°F (260°C)

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H530-ND	8.86	70.90
2-56 x 1/2	H534-ND◆	9.10	72.82
2-56 x 3/4	H538-ND	9.26	74.11
4-40 x 1/4	H542-ND◆	8.86	70.90
4-40 x 3/8	H544-ND◆	9.00	72.00
4-40 x 1/2	H546-ND◆	9.10	72.82
4-40 x 5/8	H548-ND	9.19	73.54
4-40 x 3/4	H550-ND◆	9.26	74.11
6-32 x 1/4	H554-ND◆	9.26	74.11
6-32 x 3/8	H556-ND	9.43	75.46
6-32 x 1/2	H560-ND◆	9.51	76.08
6-32 x 5/8	H564-ND	9.57	76.56
6-32 x 3/4	H568-ND	9.59	76.75
6-32 x 1	H572-ND	9.66	77.28
8-32 x 1/4	H576-ND◆	9.17	73.34
8-32 x 3/8	H580-ND	9.24	73.92
8-32 x 1/2	H584-ND	9.04	72.34
8-32 x 5/8	H588-ND	9.46	75.70
8-32 x 3/4	H592-ND	9.42	75.36
8-32 x 1	H596-ND◆	9.46	75.65
10-32 x 1/2	H600-ND	10.19	81.55
10-32 x 3/4	H604-ND	10.20	81.60
10-32 x 1	H608-ND◆	10.38	83.04

Description	Digi-Key Part No.	Pricing 100	1,000
Nylon Hex Nuts			
2-56	H612-ND◆	10.55	84.38
4-40	H616-ND◆	10.50	84.00
6-32	H620-ND◆	10.80	86.40
8-32	H624-ND◆	11.06	88.46
10-32	H628-ND◆	11.30	90.43

Digi-Key® Nylon Hardware Kits

Sizes #2, #4, #6, #8 and #10.
1500 pieces total.
100 pieces each
of the following:

◆1604-KIT-ND (Phillips) **$53.94**

Rivets

Description	Digi-Key Part No.	Pricing 100	1,000
Aluminum Rivets			
3/32 x .250	H251-ND	7.56	60.48
3/32 x .375	H252-ND	7.60	60.80
1/8 x .212	H253-ND	6.15	49.20
1/8 x .275	H254-ND	4.65	37.20
1/8 x .337	H255-ND	5.03	40.20
1/8 x .400	H256-ND	5.18	41.40
1/8 x .462	H257-ND	8.40	67.20
1/8 x .650	H258-ND	10.28	82.20
Aluminum Large Flange Rivets			
1/8 x .275	H260-ND	8.65	69.20
1/8 x .400	H261-ND	9.00	72.00
1/8 x .525	H262-ND	11.00	88.00
Steel Rivets			
3/32 x .250	H263-ND	8.73	69.80
3/32 x .375	H264-ND	9.00	72.00
1/8 x .212	H265-ND	4.14	33.08
1/8 x .275	H266-ND	4.64	37.12
1/8 x .337	H267-ND	5.22	41.76
1/8 x .400	H268-ND	5.30	42.36
1/8 x .526	H269-ND	7.98	63.80
Steel Large Flange Rivets			
1/8 x .275	H270-ND	8.93	71.40
1/8 x .400	H271-ND	9.21	73.68
1/8 x .525	H272-ND	11.25	90.00

Hand Rivet Tools

HP-2®/39000

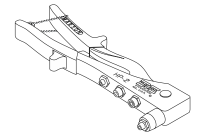

The HP-2 is the largest selling hand rivet tool in the industry. Its square shoulder fulcrum pin of cold-formed heat-treated steel prevents pin rotation that can elongate the engaging holes and cause premature tool failure in imitation tools. The HP-2 hand rivet tool sets up to 3/16" steel rivets and comes with four mounted nosepieces (3/32". 1/8". 5/32" and 3/16") and a service wrench.

H1001-ND........................ **$37.70**

200 Kit ™/39001

The deluxe hand riveter kit includes the HP-2 and 200 assorted Klik-Fast rivets in popular sizes.

H1002-ND........................ **$68.12**

Metric Phillips, Panhead Machine Screws

Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
M2 x 5mm	H738-ND§	6.72	53.76
M2 x 8mm	H739-ND§	7.05	56.40
M2 x 12mm	H740-ND§	5.90	47.23
M3 x 5mm	H742-ND§	5.94	47.52
M3 x 8mm	H743-ND§	6.60	52.80
M3 x 12mm	H744-ND§	6.90	55.20
M3 x 20mm	H745-ND§	11.33	90.62
M3 x 25mm	H746-ND§	11.46	91.68
M4 x 5mm	H747-ND★	7.20	57.60
M4 x 8mm	H748-ND★	7.56	60.48
M4 x 12mm	H749-ND★	8.76	70.08
M4 x 20mm	H750-ND★	11.55	92.40
M4 x 25mm	H751-ND★	12.60	100.80
M5 x 6mm	H752-ND	10.56	84.48
M5 x 8mm	H753-ND	10.80	86.40
M5 x 12mm	H754-ND	12.60	100.80
M5 x 20mm	H755-ND	17.70	141.60
M5 x 25mm	H756-ND	18.60	148.80
M6 x 8mm	H757-ND★	20.40	163.20
M6 x 12mm	H758-ND★	21.60	172.80
M6 x 20mm	H759-ND★	25.80	206.40
M6 x 25mm	H760-ND★	27.60	220.80

Metric Nuts and Washers

Zinc Plated

Description	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
M2 Metric Hex Nut	H761-ND§	3.60	28.80
M3 Metric Hex Nut	H762-ND§	3.84	30.72
M4 Metric Hex Nut	H763-ND★	4.20	33.60
M5 Metric Hex Nut	H764-ND	4.80	38.40
M6 Metric Hex Nut	H765-ND★	5.34	42.72
Split Lock Washers			
M2 Lock Washers	H771-ND§	5.40	43.20
M3 Lock Washers	H772-ND§	4.26	34.08
M4 Lock Washers	H773-ND★	4.74	37.92
M5 Lock Washers	H774-ND	5.34	42.72
M6 Lock Washers	H775-ND★	6.30	50.40
Flat Washers			
M2 Flat Washers	H766-ND§	3.30	26.40
M3 Flat Washers	H767-ND§	3.60	28.80
M4 Flat Washers	H768-ND★	3.66	29.28
M5 Flat Washers	H769-ND	3.75	30.00
M6 Flat Washers	H770-ND★	4.80	38.40

Digi-Key® Metric Hardware Kits

Sizes M2 and M3. Zinc Plated.
1400 pieces total.
100 pieces each of the following:

§1605-KIT-ND (Phillips) **$59.95**

Sizes M4 and M6. Zinc Plated.
1500 pieces total.
100 pieces each of the following:

★1606-KIT-ND (Phillips) **$99.95**

Phillips, Panhead Machine Screws

Stainless Steel

Description	Digi-Key Part No.	Pricing 100	1,000
2-56 x 1/4	H700-ND★	6.87	54.96
2-56 x 1/2	H701-ND★	5.28	42.24
2-56 x 3/4	H702-ND★	5.34	42.72
4-40 x 1/4	H703-ND★	4.13	33.02
4-40 x 5/16	H704-ND★	3.34	26.74
4-40 x 1/2	H705-ND★	4.05	32.40
4-40 x 3/8	H782-ND	3.60	28.80
4-40 x 5/8	H706-ND★	4.41	35.28
4-40 x 3/4	H707-ND★	6.36	50.88
6-32 x 1/4	H708-ND†	4.08	32.64
6-32 x 5/16	H709-ND	4.39	35.09
6-32 x 3/8	H710-ND	4.51	36.10
6-32 x 1/2	H711-ND†	4.77	38.16
6-32 x 5/8	H712-ND	5.52	44.16
6-32 x 3/4	H713-ND†	6.33	50.64
6-32 x 1	H714-ND	6.64	53.09
8-32 x 3/8	H715-ND†	6.16	49.25
8-32 x 1/2	H716-ND†	6.70	53.62
8-32 x 5/8	H717-ND	7.33	58.66
8-32 x 3/4	H718-ND†	9.18	73.44
8-32 x 1	H719-ND	10.56	84.48
10-32 x 1/2	H720-ND†	11.00	88.03
10-32 x 3/4	H721-ND†	12.52	100.13
10-32 x 1	H722-ND†	20.46	163.68

Stainless Steel Nuts and Washers

Description	Digi-Key Part No.	Pricing 100	1,000
Hex Nuts			
No. 2 - 56 Hex Nut	H723-ND★	4.99	39.94
No. 4 - 40 Hex Nut	H724-ND★	4.13	33.02
No. 6 - 32 Hex Nut	H725-ND†	5.57	44.54
No. 8 - 32 Hex Nut	H726-ND†	5.95	47.62
No. 10 - 32 Hex Nut	H727-ND†	6.05	48.38
Internal Tooth Lock Washers			
No. 2 Lock Washer	H728-ND★	3.55	28.42
No. 4 Lock Washer	H729-ND★	2.50	19.97
No. 6 Lock Washer	H730-ND†	2.30	18.43
No. 8 Lock Washer	H731-ND†	2.88	23.04
No. 10 Lock Washer	H732-ND†	3.07	24.58
Flat Washers			
No. 2 Flat Washer	H733-ND★	2.30	18.43
No. 4 Flat Washer	H734-ND★	3.36	26.88
No. 6 Flat Washer	H735-ND	3.66	29.28
No. 8 Flat Washer	H736-ND	3.90	31.20
No. 10 Flat Washer	H737-ND	4.74	37.92

Digi-Key® Stainless Steel Hardware Kits

Sizes #2 and #4.
1400 pieces total.
100 pieces each of the following:

★1607-KIT-ND (Phillips) **$39.95**

Sizes #6, #8, and #10.
1500 pieces total.
100 pieces each of the following:

†1608-KIT-ND (Phillips) **$79.95**

PC Test Points

Features: • Color keyed for visibility and quick identification • Economical choice for PC test point terminations • Snap-fit mounting provides positive retention for wave soldering • Wire form loop for safe, non-slip testing • Space saving, ultra low and low profile designs • High profile for difficult to reach applications • Suitable for high density packaging on .062” (1.57mm) & .093” (2.36mm) PC boards • Practical replacement for wire-wrap posts and turrets • Secure grip for J hooks, EZ hooks, grabbers, alligator clips, tips or probes • Plastic base strengthens terminal for positive holding power • Ideal for reliable production testing and field service troubleshooting

Fig. 1 Miniature

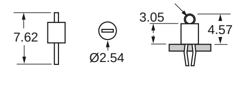

Fig. 2 Compact

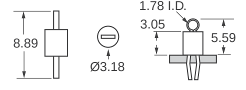

Fig. 3 Multipurpose

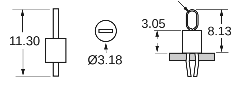

Fig. 4

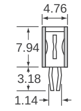

Fig.	Base Color	Digi-Key Part No.	Price Each 10	100	500	Keystone Part No.
1	Red	5000K-ND	.29	.20	.18	5000
	Black	5001K-ND	.29	.20	.18	5001
	White	5002K-ND	.29	.20	.18	5002
	Orange	5003K-ND	.29	.20	.18	5003
	Yellow	5004K-ND	.29	.20	.18	5004
2	Red	5005K-ND	.29	.20	.18	5005
	Black	5006K-ND	.29	.20	.18	5006
	White	5007K-ND	.29	.20	.18	5007
	Orange	5008K-ND	.29	.20	.18	5008
	Yellow	5009K-ND	.29	.20	.18	5009
3	Red	5010K-ND	.29	.20	.18	5010
	Black	5011K-ND	.29	.20	.18	5011
	White	5012K-ND	.29	.20	.18	5012
	Orange	5013K-ND	.29	.20	.18	5013
	Yellow	5014K-ND	.29	.20	.18	5014
4	Red	6043K-ND	1.33	.81	.79	6043
	Black	6044K-ND	1.33	.81	.79	6044

SMT Test Points

Miniature • Ultra low profile ideally suited for advanced surface mount printed circuit board applications • Designed for long life and durability • Manufactured using flat wire to provide a large mounting surface area • Ideal for use with miniature probes, clips, and hooks • Efficient, safe, board level testing.
Compact • Unique design provides exceptional strength and durability • Simplifies testing on dense SMT circuit boards • Ideal for use with most standard probes, clips and hooks • Efficient, safe, board level testing

Fig. 1 Miniature

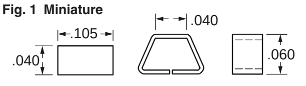

Fig. 2 Compact

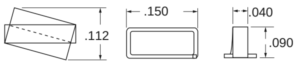

Fig.	Description	Digi-Key Part No.	Cut Tape Price Each 50	250	500	Digi-Key Part No.	Tape & Reel Pricing 1,000	Keystone Part No.
1	Miniature	5015KCT-ND	.25	.22	.18	5015KTR-ND	123.70	5015
2	Compact	5016KCT-ND	.23	.20	.17	5016KTR-ND	115.05	5016

Binding Post

Fig. 1

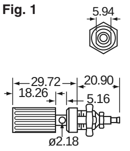

Fig. 2

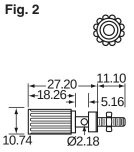

Fig. 3

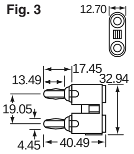

Fig.	Description	Base Color	Digi-Key Part No.	Price Each 1	10	100	Keystone Part No.
1	Standard	Red	7004K-ND	3.96	3.70	2.62	7004
1	Standard	Black	7005K-ND	3.96	3.70	2.62	7005
2	Economy	Red	7006K-ND	4.80	4.48	3.17	7006
2	Economy	Black	7007K-ND	4.80	4.48	3.17	7007
3	Dual Banana Plugs	Red	6088K-ND	11.78	11.00	7.77	6088
3	Dual Banana Plugs	Black	6089K-ND	11.78	11.00	7.77	6089
—	Dual Banana Plugs	—	7021K-ND	10.20	9.52	6.08	7021

3M Electronics Vacuum and Accessories

Electronic Vacuum

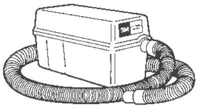

Complete with hose, 32” - 10 ft. (81.28cm - 3.05 meters), wand, crevice tool, crevice tool brush, dusting brush, needle nozzle, 3-year warranty.

OPTIONS: Shoulder strap with shoulder pad.

SPECIFICATIONS: Electrical: 115VAC, 50/60Hz, 5.0 amps. **Dimensions:** Length: 17.80” (45.21cm). Width: 7.75” (19.69cm). Height: 9.25” (23.50cm). Weight: 9 lbs. 14 oz. (4.48kg). **Motor:** 1HP, continuous duty, thermally protected with automatic reset. Conducted RFI filtered (reduces EMI to be below FCC requirements).

Filter: Type 1, Small Particle: For trapping extremely fine particles. Typical applications color laser printers, color copiers and highly sensitive equipment. **Type 2, Medium Particle:** Designed to trap unwanted toner from copiers and laser printers, cleaning typewriters and data processing equipment.

Description	Digi-Key Part No.	Price Each 1	10	3M Part No.
Electronic Vacuum Cleaner 115 Vac	SCP148-ND	229.61	214.31	SV-497AJM
Carrying Strap with Shoulder Pad	SCP149-ND	9.98	9.31	SV-CS1
Type 1 Filter, Small Particle	SCP150-ND	23.68	22.11	SV-SPF1
Type 2 Filter, Medium Particle	SCP151-ND	13.31	12.43	SV-MPF2
Replacement Hose for Electronic and Tool Case Vacuum Cleaners				
30” Hose, Stretches to Approx. 10’	SCP230-ND	34.30	—	SV-SH32
50” Hose, Stretches to Approx. 16’	SCP231-ND	62.38	—	SV-SH50

3M Breadboard Jumper Wire Kit

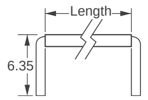

• 350 wires • 14 different lengths • Wire is stripped • Leads bent 90° • Length is classified by color coding • Wire is solid tinned 22 gauge • PVC insulation.

Kit contains 25 each of 14 different lengths.

923351-ND **$27.24**

Replacement Wire

Length In. (mm)	Qty./ Pkg.	Color	Digi-Key Part No.	Price/ Pkg.
0.1 (2.54)	200	(No Insulation)	923345-01-ND	$9.78 per Pkg.
0.2 (5.08)	200	Red	923345-02-ND	
0.3 (7.62)	200	Orange	923345-03-ND	
0.4 (10.16)	200	Yellow	923345-04-ND	
0.5 (12.70)	200	Green	923345-05-ND	
0.6 (15.24)	150	Blue	923345-06-ND	
0.7 (17.78)	150	Violet	923345-07-ND	
0.8 (20.32)	150	Gray	923345-08-ND	
0.9 (22.86)	150	White	923345-09-ND	
1.0 (25.40)	100	Brown	923345-10-ND	
2.0 (50.80)	100	Red	923345-20-ND	
3.0 (76.20)	75	Orange	923345-30-ND	
4.0 (101.60)	75	Yellow	923345-40-ND	
5.0 (127.00)	75	Green	923345-50-ND	

3M A•C•E Board™ Solderless Breadboards

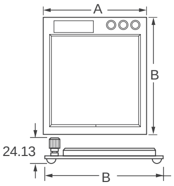

FEATURES:

• 0.1” x 0.1” (2.54mm) solderless tie point matrix accepts all DIP sizes and a wide variety of discrete components with lead diameters up to .032” (.81mm) • Capacities range from 610 to 5424 tie points

• Accommodate from 6 to 54, 14 pin DIPs • Separate distribution bases for power, ground and signal lines • Molded alphanumeric grid for faster, easier tie point identification • Circuit elements are easily connected with #22 AWG solid wire • Strip bodies are constructed of durable Acetal Copolymer with Alloy 688 terminals • Durable baseplates keep boards stationary during use and help to minimize noise and voltage spikes in today’s high speed circuits.

AxCxE Model	DIP Capacity (Size)	Base Dim. Inch (cm) A	B	Total Tie Points	Total 5-Tie Point Term.	Binding Posts	Digi-Key Part No.	Price Each
354	54(14-Pin)	14.69 (37.31)	9.75 (24.77)	5424	768	4	922354-ND	111.56
345	45(14-Pin)	12.44 (31.60)	9.75 (24.77)	4520	640	4	922345-ND	100.02
336	36 (14-Pin)	10.25 (26.04)	9.25 (23.50)	3648	512	4	922336-ND	72.65
327	27 (14-Pin)	8.0 (20.32)	9.25 (23.50)	2712	384	4	922327-ND	70.01
318	18 (14-Pin)	7.75 (19.69)	6.25 (15.88)	1824	256	3	922318-ND	43.71
309	9 (14-Pin)	7.0 (17.78)	4.0 (10.16)	840	128	3	922309-ND	25.01
306	6 (14-Pin)	5.4 (13.72)	4.0 (10.16)	610	94	2	922306-ND	22.19

3M Super Strips and Circuit Strips

Universal Breadboarding Elements with Solderless Plug-In Tie Points

As with all solderless breadboarding units from 3M, components simply plug-in and are interconnected with ordinary solid hook-up wire; #22 AWG is recommended.

All sizes of DIPs and discrete components with lead diameters up to .032” (.82mm) can be accommodated.

These handy strips may be permanently mounted with the integral non-shorting instant-mounting backing, or for quick removal, they may be mounted with screws on panels up to 1/8” (3.18mm) thick.

Hardware and mounting templates are provided with every strip.

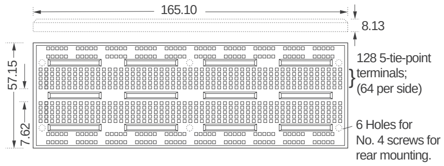
165.10
8.13
57.15
7.62
128 5-tie-point terminals; (64 per side)
6 Holes for No. 4 screws for rear mounting.

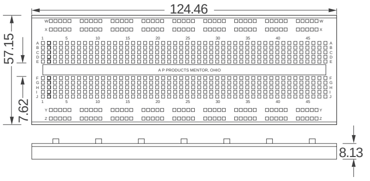

SPECIFICATIONS

	SUPER-STRIP	CIRCUIT-STRIP
Size:	2.25” x 6.50” x .32” (57.15mm x 165.10mm x 8.13mm)	2.25” x 4.90” x .32” (57.15mm x 124.46mm x 8.13mm)
Plug-In Tie-Points:	840	610
Materials: Body	Acetal Copolymer	Acetal Copolymer

SUPER-STRIP Terminals	Part No.	Price Each	CIRCUIT-STRIP Terminals	Part No.	Price Each
Alloy 770	923252-ND	21.89	Alloy	923253-ND	15.44
Gold (10m)	923748-ND	69.21	Gold (10m)	923749-ND	70.01

VECTOR ELECTRONICS & TECHNOLOGY, INC

Prototype Boards

Vector Prototyping Boards with punched holes are convenient economical tools for assembling circuit components and cost effective alternatives to custom designs. Use general purpose Plugboards and Bus specific for edgeboard connection prototyping, while Circboards are ideal for cutting down to smaller board sizes.
• Holes on 0.1" (2.54mm) grid .042" (1.07mm) diameter (.043" [1.09mm] on V1018 and V1029) • Ejector Hole • Plating: Gold/Nickel • Board Material: Epoxy Glass Composite.

PC/XT and AT Expansion Units:
• Marked edge contact identification • Gold plated edge contacts on 0.1" centers • Power and ground buses terminate to connectors • Pads on board and bracket accepts DB9-, 15-, 25- or 37-Pin I/O connector • Accepts Vector's press terminals for wiring & soldering • Holes are .042" (1.07mm) diameter or 0.1" (2.54mm) grid • 1/16" (1.59mm) thick epoxy glass material, gold/nickel contacts • Universal mounting bracket and card guide included • Layout planning sheets and instructions included • Plugs into any IBM AT slot with dual connectors (AT unit only) • Pads for mounting dual, row 0.1" (2.54mm) spaced header (AT unit only)

Circbords™: • .042" (1.07mm) diameter holes on 0.1" (2.54mm) grid • 1/16" (1.59mm) thick, epoxy glass composite boards • Flame retardant • Etched copper patterns are solder plated.

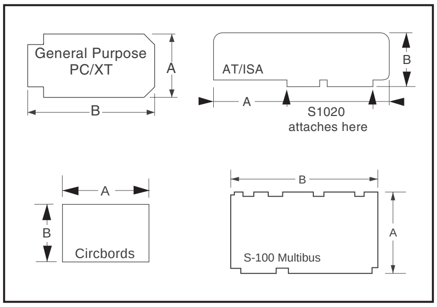

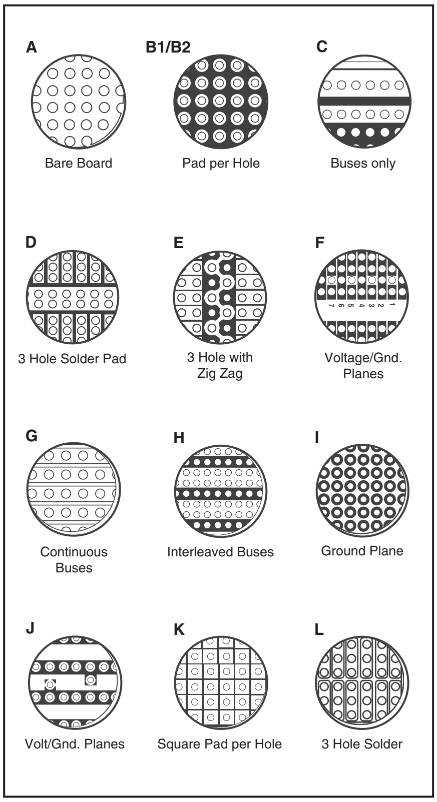

PC BOARD PATTERNS

A	Edgeboard Contacts Only
B1	Pad Per Hole W/ Buses
B2	Pad Per Hole Only
C	Buses Only Around Bare Board
D	3-Hole Solder Pad W/Buses
E	3-Hole Solder Pad, Zig-Zag Buses & Ground Plane
F	Voltage/Gnd. Planes
G	Buses Only - 2 Sides
H	Interleaved Buses
I	Clearance-Hole Ground Plane
J	Voltage/Ground Planes
K	Pad-Per-Hole Only
L	3-Hole Solder Pad

PCB Pattern	Edge Contacts No.	Edge Contacts Spacing Inch (mm)	Dimensions Inch (cm) A	Dimensions Inch (cm) B	16-Pin Dip Cap.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Accessories Connectors Solder Tail	Accessories Connectors Wire Wrap	Accessories Card Extender	Accessories Card Racks	Vector Part No.
General Purpose Plugboards														
A	44	.156" (3.96)	4.50 (11.43)	9.60 (24.38)	90	V1129-ND	29.03	25.52	22.65	V1062	V1196	V1024	V1050	3662-2
B1/B1			4.50 (11.43)	6.50 (16.51)	45	V1018-ND	36.04	31.68	28.12	V1062	V1196	V1024	V1050-52	3662-9
A			4.50 (11.43)	4.50 (11.43)	40	V1017-ND	20.00	17.59	15.61	V1062	V1196	V1024	V1050-52	3662-5
A			4.50 (11.43)	6.50 (16.51)	50	V1016-ND	22.48	19.76	17.54	V1062	V1196	V1024	V1050-52	3662
H			4.50 (11.43)	6.50 (16.51)	24	V1023-ND	30.01	26.39	23.42	V1062	V1196	V1024	V1050-52	3682-2
D			4.50 (11.43)	6.50 (16.51)	12	V1020-ND	24.02	21.12	18.75	V1062	V1196	V1024	V1050-52	3677-2
E			4.50 (11.43)	9.60 (24.38)	40	V1128-ND	38.02	33.43	29.67	V1062	V1196	V1024	V1050	4112
E			4.50 (11.43)	6.50 (16.51)	25	V1031-ND	30.03	26.40	23.43	V1062	V1196	V1024	V1050-52	4112-4
E			4.50 (11.43)	4.50 (11.43)	8	V1032-ND	28.03	24.64	21.87	V1062	V1196	—	—	4112-5
D			4.50 (11.43)	9.60 (24.38)	21	V1019-ND	29.03	25.52	22.65	V1062	V1196	V1080	V1053	3677
H			4.50 (11.43)	6.50 (16.51)	24	V1130-ND	43.81	38.52	34.18	V1062	V1196	V1024	V1050	3682-4
I			4.50 (11.43)	6.50 (16.51)	90	V1131-ND	36.04	31.68	28.12	V1062	V1196	V1024	V1050	3662A6
A	72	.100 (2.54)	4.50 (11.43)	6.50 (16.51)	50	V1027-ND	27.03	23.76	21.09	S1364	V1061	V1079	V1050-52	3719-1
B1			4.50 (11.43)	6.50 (16.51)	40	V1029-ND	44.04	38.72	34.37	S1364	V1061	V1079	V1050-52	3719-6
—			4.50 (11.43)	6.50 (16.51)	34	V1132-ND	26.01	22.87	20.30	S1364	V1061	V1024	V1050	4066-4
A			4.50 (11.43)	9.60 (24.38)	90	V1028-ND	30.01	26.39	23.42	S1364	V1061	V1079	V1053	3719-4
PC/XT (Standard Bus)														
D	56	.125	4.50 (11.43)	6.50 (16.51)	20	V1111-ND	31.03	27.28	24.22	S2284	—	V1115	V1050-52	4610V
A			4.50 (11.43)	6.50 (16.51)	59	V1112-ND	41.71	36.68	32.55	S2284	—	V1115	V1050-52	4610-1
B1/B2			4.50 (11.43)	6.50 (16.51)	52	V1114-ND	44.04	38.72	34.37	S2284	—	V1115	V1050-52	4610-3
AT/ISA Expansion Units														
C	(XT)	(2.54)	13.23 (33.60)	4.20 (10.67)	84	V1036-ND	52.03	45.75	40.60	S1314	—	V1025	—	4613-1
B1			13.23 (33.60)	4.20 (10.67)	91	V1038-ND	52.03	45.75	40.60	S1314	—	V1025	—	4613-3
D	62/36 (AT)	.100 (2.54)	13.25 (33.66)	4.80 (12.19)	—	V1039-ND	78.06	68.63	60.91	—	—	V1026	—	4617
C			13.25 (33.66)	4.80 (12.19)	108	V1040-ND	58.68	51.59	45.79	—	—	V1026	—	4617-1
B1			13.25 (33.66)	4.80 (12.19)	—	V1041-ND	79.48	69.88	62.02	—	—	V1026	—	4617-3
I	98	.100 (2.54)	13.25 (33.66)	4.80 (12.19)	140	V1137-ND	79.48	69.88	62.02	S1499-967	—	—	—	4617-4
—			13.25 (33.66)	4.80 (12.19)	140	V1138-ND	90.96	79.97	70.98	S1499-967	—	—	—	4617-5
CIRCBORDS (Plugboard Patterns Without The Expense Of Edgeboard Connectors)														
G	—	—	3.00 (7.62)	3.50 (8.89)	—	V2018-ND	5.01	4.40	3.91	—	—	—	—	8022
—			3.94 (10.01)	6.30 (16.00)	—	V2017-ND◊	30.03	26.40	23.43	—	—	—	—	8021
G			4.00 (10.16)	6.00 (15.24)	15	V1035-ND	21.46	18.87	16.75	—	—	—	—	8019
D			4.50 (11.43)	6.50 (16.51)	20	V1044-ND	20.00	17.59	15.61	—	—	—	—	8001
H			4.50 (11.43)	6.50 (16.51)	35	V1045-ND	22.02	19.36	17.19	—	—	—	—	8002
K			4.50 (11.43)	6.50 (16.51)	60	V1046-ND	22.00	19.35	17.17	—	—	—	—	8003
I			4.50 (11.43)	6.50 (16.51)	50	V1047-ND	24.02	21.12	18.75	—	—	—	—	8004
B2/B2			5.00 (12.70)	13.25 (33.66)	154	V1048-ND	47.03	41.35	36.70	—	—	—	—	8006
B2/J			4.50 (11.43)	6.50 (16.51)	60	V1049-ND	24.01	21.11	18.73	—	—	—	—	8007
D			4.50 (11.43)	8.08 (20.52)	21	V1021-ND	19.16	16.85	14.96	—	—	—	—	3677-6
K/K			4.50 (11.43)	8.08 (20.52)	80	V1034-ND	25.03	22.00	19.53	—	—	—	—	45P80-1
B2/B2			10.60 (26.92)	10.60 (26.92)	275	V1001-ND	63.06	55.44	49.21	—	—	—	—	106P106-1
—			18.00 (45.72)	10.69 (27.15)	—	V1116-ND†	161.60	142.07	126.09	—	—	—	—	106P180-4
B2/B2			12.86 (32.66)	4.00 (10.16)	124	V1117-ND	44.03	38.71	34.35	—	—	—	—	8010
B2/B2			11.00 (27.94)	9.20 (23.37)	283	V1118-ND	64.06	56.32	49.99	—	—	—	—	8012
S-100 Prototyping Boards														
B2/B2	50/100	.125 (3.18)	10.00 (25.40)	5.30 (13.46)	80	V1134-ND	50.03	43.99	39.04	—	—	—	—	8801-6
A			10.00 (25.40)	5.30 (13.46)	110	V1135-ND	50.03	43.99	39.04	—	—	—	—	8801-1
F/F			10.00 (25.40)	5.30 (13.46)	—	V1136-ND	60.04	52.79	46.85	—	—	—	—	8804
VME Circboard Prototyping Boards														
B1	—	—	3.94 (10.01)	6.3 (16.00)	35	V1222-ND	18.00	15.83	14.05	—	—	—	—	E160-3U-1
I			3.94 (10.01)	6.3 (16.00)	45	V1223-ND	26.01	22.87	20.30	—	—	—	—	E160-3U-3
B1			6.3 (16.0)	9.19 (23.34)	100	V1226-ND	32.01	28.15	24.98	—	—	—	—	E160-6U-1
I			6.3 (16.0)	9.19 (23.34)	105	V1227-ND	28.01	24.63	21.86	—	—	—	—	E160-6U-3
L			6.3 (16.0)	3.94(10.01)	20	V1224-ND	30.01	26.39	23.42	—	—	—	—	4614
B1			6.3 (16.0)	3.94(10.01)	30	V1225-ND	32.01	28.15	24.98	—	—	—	—	4614-3
D			6.3 (16.0)	9.19 (23.34)	50	V1228-ND	36.02	31.67	28.11	—	—	—	—	4615
B1			8.66 (22.0)	9.19 (23.34)	140	V1229-ND	38.02	33.43	29.67	—	—	—	—	E220-6U-1
C			8.66 (22.0)	9.19 (23.34)	140	V1230-ND	44.03	38.71	34.35	—	—	—	—	E220-6U-2
F			8.66 (22.0)	9.19 (23.34)	168	V1231-ND	29.03	25.52	22.65	—	—	—	—	E220-6U-3
F			11.02 (28.0)	14.44 (36.68)	348	V1232-ND	66.05	58.07	51.54	—	—	—	—	E280-9U-3

† V1116-ND has pad per hole with PTH, GND plane both sides.
◊ V2017-ND has .05" spacing with plated-thru holes.

VECTOR
ELECTRONICS & TECHNOLOGY, INC

Circuit Board Accessories

An excellent selection of socket pins, terminals, tools and accessories is available for all Vectorbord patterns, sizes and hole diameters. Perfect for breadboarding or prototyping using Vectorbord® plugboards™.

Fig. 1

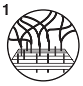

Fig. 2

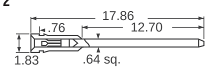

Fig. 3

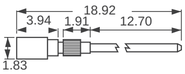

Fig. 4

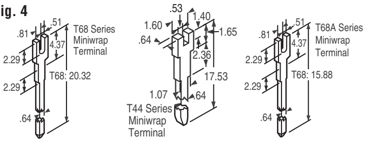

Fig. 5A

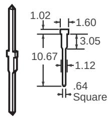

Fig. 5B

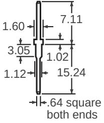

Fig. 6

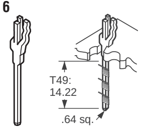

Fig. 7

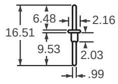

Material: Phosphor bronze

Fig. 8

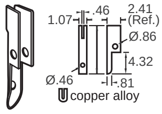

Fig. 9

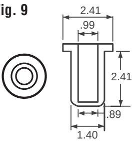

Fig. 10

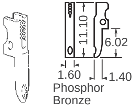

Fig. 11

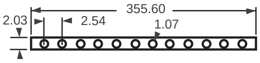

Install on circuit boards as an alternative to etched bus lines.

Fig. 12

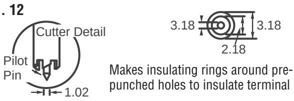

Makes insulating rings around prepunched holes to insulate terminal points.

Fig. 13

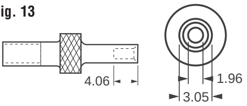

Fig. 14

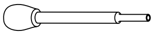

Fig. 15

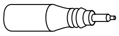

Fig. 16

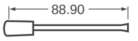

Fig. 17

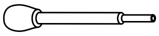

Fig. 18

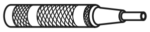

Fig.	Description	Pkg. Qty.	Digi-Key Part No.	Price Each 1	10	Vector Part No.
1	Slip-On Contacts for Tab-To-Wire Connection	50	V1065-ND	130.13	114.40	T120-1/50
2	Lo-Profile IC Socket Pins for .055” (1.40mm) Dia. Holes, Wrap Post	100	V1058-ND	24.01	21.11	R31/C
3	Lo-Profile IC Socket Pins for .042” (1.07mm) Dia. Holes, Wrap Post	100	V1059-ND	27.14	23.86	R32/C
	Lo-Profile IC Socket Pins for .042” (1.07mm) Dia. Holes, Wrap Post	1000	V1060-ND	198.20	174.24	R32/M
4	T44 Series Bifurcated Miniwrap Term. with .025” (.64mm) Sq. Posts	100	V1071-ND	10.45	9.19	T44/C
	T44 Series Bifurcated Miniwrap Term. with .025” (.64mm) Sq. Posts	1000	V1072-ND	60.13	52.87	T44/M
	T68 Series Bifurcated Miniwrap Term. with .025” (.64mm) Sq. Posts	100	V1077-ND	9.68	8.52	T68/C
	T68 Series Bifurcated Miniwrap Term. with .025” (.64mm) Sq. Posts	1000	V1078-ND	57.09	50.20	T68/M
	T68A Series Miniwrap Terminal	1000	V1110-ND	106.65	93.76	T68A/M
5A	Press-In Terminals with .025” (.64mm) Sq. Posts	1000	V1073-ND	94.48	83.06	T46-4-9/M
5B	Press-In Terminals with .025” (.64mm) Sq. Posts	100	V1074-ND	14.14	12.44	T46-5-9/C
6	Trifurcated Klipwrap Terminals with .025” (.64mm) Sq. Posts	100	V1075-ND	14.54	12.79	T49/C
	Trifurcated Klipwrap Terminals with .025” (.64mm) Sq. Posts	1000	V1076-ND	128.40	112.88	T49/M
7	Inboard Pins for 1/16” (1.60mm) Boards with .042” (1.07mm) Dia. Holes, Gold	1000	V1054-ND	100.10	88.00	K24A/M
	Inboard Pins for 1/16” (1.60mm) Boards with .042” (1.07mm) Dia. Holes, Tin	1000	V1055-ND	60.04	52.79	K24C/M
8	Micro-Klip Term. for 1/16” (1.60mm) Boards, .042” (1.07mm) Dia. Holes, Tin	100	V1069-ND	9.65	8.48	T42-1/C
	Micro-Klip Term. for 1/16” (1.60mm) Boards, .042” (1.07mm) Dia. Holes, Tin	1000	V1070-ND	46.32	40.72	T42-1/M
—	J-Pin Terminals for 1.07” (.042mm) Dia. with Holes (use with Micro-Klip)	100	V1171-ND	16.00	14.07	K32/C
	J-Pin Terminals for 1.07” (.042mm) Dia. with Holes (use with Micro-Klip)	1000	V1172-ND	140.12	123.19	K32/M
9	Rolled Flange Eyelet	500	V1066-ND	30.01	26.39	T123/500
10	Mini-Klip Term. for 1/16” (1.60mm) Boards with .062” (1.574mm) Dia. Holes, Tin	100	V1067-ND	9.92	8.72	T28/C
	Mini-Klip Term. for 1/16” (1.60mm) Boards with .062” (1.574mm) Dia. Holes, Tin	1000	V1068-ND	52.93	46.53	T28/M
11	Bus Strips With Round Punched Holes	10	V1064-ND	9.85	8.66	T107/10
12	Pad Cutter Tool with Handle, .040” (1.02mm) Holes for Copper Clad Boards	1	V1056-ND	55.91	49.16	P138A
	Pad Cutter Tool Shank only, .040” (1.02mm) Holes for Copper Clad Boards	1	V1057-ND	67.23	59.11	P138C
14	Hand Insertion Tool for T44		V1098-ND	24.35	21.41	A13
14	Hand Insertion Tool for T68		V1099-ND	25.88	22.76	A13-1
15	Hand Insertion Tool for T49		V1100-ND	72.05	63.35	P156
16	Hand Insertion Tool for T42-1		V1101-ND	32.49	28.56	P149
17	Hand Insertion Tool for K24A, T46		V1103-ND	68.07	59.84	P133A
18	Hand Insertion Tool for R31, R32		V1104-ND	115.06	101.16	P158
—	Hand Insertion Tool for T28		V2020-ND	78.04	68.61	P91A
13	Die for R32 Socket Pins		V1106-ND	63.54	55.86	D9
—	Die for R31 Socket Pins		V1173-ND	25.13	22.10	D10

Card Extenders

Current rating: 5A @ 108°F temperature rise
Voltage rating: 200 RMS or 300 VDC. Circuit contacts are gold/nickel plated .000010” gold over .000050” nickel
Connector contacts: Gold inlay .000030” thick, on CA725 copper/nickel alloy base
Board: epoxy glass composite - 2 oz. copperclad or FR4 per MIL-P-13949.

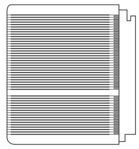

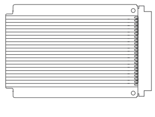

Vector Card Extenders are specifically designed to provide in-system testing of functioning circuit boards.

Total	Contacts Each Side	Contacts Ctrs. In. (mm)	Dimensions Width x Height Inch (cm)	Bus System Application	Digi-Key Part No.	Price Each 1	10	Vector Part No.
44	22	.156 (3.96)	4.5 x 6.5 (11.43 x 16.51)	—	V1024-ND	42.04	36.96	3690
44	22	.156 (3.96)	4.5 x 11 (11.43 x 27.94)	RCA Cosmac	V1080-ND	56.33	49.52	3690-6
36/62	18/31	.100 (2.54)	6.7 x 5.6 (17.02 x 14.22)	IBM AT	V1026-ND	80.06	70.39	3690-26
62	31	.100 (2.54)	3.18 x 5.7 (8.08 x 14.48)	IBM PC	V1025-ND	80.94	71.16	3690-22
72	36	.100 (2.54)	4.5 x 11.5 (11.43 x 29.21)	—	V1143-ND	75.33	66.23	3690-2
60/86	30/43	.1/.156 (2.54/3.96)	12 x 7.5 (30.48 x 19.05)	Multibus I	V1095-ND	124.05	109.06	3690-18
188	94	.050 (1.27)	6.7 x 5.6 (17.02 x 14.22)	EISA	V1108-ND	279.08	245.59	3690-32
56	28	.125 (3.18)	4.5 x 6.5 (11.43 x 16.51)	SDTI	V1115-ND	49.96	43.92	3690-16
100	50	—	Hgt. 7.5 (19.05)	S-100	V1144-ND	80.06	70.39	3690-12

Prepunched Insulating Boards

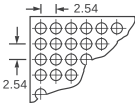

- Epoxy glass, except as noted

Dimensions - Inch (mm) Width x Length	Board Thickness	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
Micro-Vectorbords® — Holes .042” (1.07mm) Diameter; .100” (2.54mm) Grid						
4.5 x 17 (114.30 x 431.80)	.062	V1005-ND#	13.07	11.49	10.20	169P44XXXP
4.5 x 6.5 (114.30 x 165.10)	.062	V1043-ND#	7.08	6.23	5.53	64P44XXXP
4.5 x 17 (114.30 x 431.80)	.062	V1004-ND	18.78	16.52	14.66	169P44WE
8 x 17 (203.20 x 431.80)	.062	V1007-ND	29.07	25.56	22.68	169P79WE
8.5 x 17 (215.90 x 431.80)	.062	V1011-ND	26.59	23.38	20.75	169P84WE
8.5 x 17 (215.90 x 431.80)	.062	V1012-ND*	31.58	27.76	24.64	169P84WEC1
4.5 x 6.5 (114.30 x 165.10)	.062	V1042-ND	7.04	6.20	5.50	64P44WE
4.5 x 17 (114.30 x 431.80)	.062	V1002-ND†	12.23	10.76	9.55	169P44
4.5 x 17 (114.30 x 431.80)	.062	V1003-ND*†	22.80	20.05	17.80	169P44C1
8 x 17 (203.20 x 431.80)	.062	V1006-ND†	32.01	28.15	24.98	169P79
8.5 x 17 (215.90 x 431.80)	.062	V1008-ND†	32.01	28.15	24.98	169P84
8.5 x 17 (215.90 x 431.80)	.062	V1009-ND*†	37.11	32.63	28.96	169P84C1
10 x 17 (254 x 431.80)	.062	V1013-ND†	39.22	34.48	30.61	169P99
10 x 17 (254 x 431.80)	.062	V2019-ND	39.22	34.48	30.61	169P99WE
6.5 x 4.5 (165.10 x 114.30)	.062	V1119-ND†	7.04	6.20	5.50	64P44
4.5 x 8.5 (114.30 x 215.90)	.062	V1120-ND	11.12	9.78	8.68	84P44WE
6 x 17 (152.40 x 431.80)	.047	V1122-ND	18.35	16.13	14.32	169P59-047
6 x 17 (152.40 x 431.80)	.031	V1123-ND	18.76	16.50	14.65	169P59-032
6 x 17 (152.40 x 431.80)	.062	V1124-ND#	14.54	12.79	11.35	169P59XXXP
4.5 x 17 (114.30 x 431.80)	.062	V1126-ND*	18.35	16.13	14.32	169P44WEC1
4.5 x 17 (114.30 x 431.80)	.062	V1127-ND**	19.20	16.88	14.99	169P44C2
Vectorbords® — Holes .062” (1.57mm) Diameter; .100” (2.54mm) Grid						
4.8 x 17 (121.92 x 431.80)	.062	V1014-ND	27.79	24.44	21.69	170H48WE
8.51 x 17 (216.15 x 431.80)	.062	V1015-ND	42.64	37.49	33.28	170H85WE
8.5 x 8.5 (215.90 x 215.90)	.062	V1121-ND	28.81	25.33	22.48	85H85WE
4.8 x 8.5 (121.92 x 215.90)	.062	V1125-ND	14.81	13.03	11.56	85H48WE
Vectorbords® — Holes .025” (.64mm) Diameter; .050” (1.27mm) Grid						
4 x 6.5 (101.60 x 165.10)	.037	V1140-ND	22.00	19.35	17.17	126M76-032
4 x 17 (101.60 x 431.80)	.037	V1141-ND	20.00	17.59	15.61	336M76-032
4 x 17 (101.60 x 431.80)	.037	V1142-ND*	20.00	17.59	15.61	336M76-032C1
Vectorbords® — Holes .025” (.64mm) Diameter; .079” (2mm) Grid						
3.94 x 6.3 (100 x 160)	.037	V2015-ND	13.92	12.24	10.87	47Q78WE

Material: # Phenolic. * Copper clad, 1 side. ** Copper clad, 2 side. † Epoxy Glass Composite

VECTOR ELECTRONICS & TECHNOLOGY, INC

Card Racks

Designed in accordance with EIA standard, these 19" (48.26cm) subracks are compatible with Vector prototyping boards. All racks are adjustable in both height and depth and can be used with snap-in, plastic or metal card guides. Available in kit form (CCK) or fully assembled (CCA) all models feature brushed aluminum construction with a full line of prototyping boards, extenders and backplanes available. Card racks include nylon snap-in card guides.

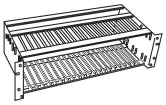
V1050, V1051, and V1053

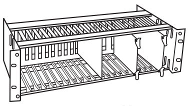
V1052

Card Size Range Inch (cm) W x H	Size Inch (cm) Width x Depth	Hgt.*	Guide Mnt. Method	Mat-erial	Digi-Key Part No.	Price Each 1	10	Vector Part No.
3.00-5.00 x 4.5 (7.62-12.70 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1145-ND	147.89	130.02	CCK12S/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1052-ND	147.89	130.02	CCK13S/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1051-ND	164.27	144.42	CCA13S/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Riveted	Zinc	V1050-ND	270.27	237.60	CCA13M/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	9.5 x 9.00 (24.13 x 22.86)	3U	Snap-In	Nylon	V1146-ND	178.18	156.64	CCK13S-H/90
5.50-7.00 x 4.5 (13.97-17.78 x 11.43)	19.00 x 9.00 (48.26 x 22.86)	3U	Snap-In	Nylon	V1147-ND	360.36	316.80	CCK13S-16/90
8.60-10.1 x 4.5 (21.84-25.65 x 11.43)	19.00 x 12.00 (48.26 x 30.48)	3U	Snap-In	Nylon	V1053-ND	192.01	168.80	CCA14S/90
8.60-10.1 x 8 (21.84-25.65 x 20.32)	19.00 x 12.00 (48.26 x 30.48)	5U	Snap-In	Nylon	V1148-ND	206.68	181.70	CCA17S/90
4.0-8.50 x 10.0 (10.16-21.59 x 25.40)	19.00 x 9.00 (48.26 x 22.86)	7U	Snap-In	Nylon	V1149-ND	166.38	146.28	CCK100S/90
4.5 X 6.5 (11.43 x 16.51)	19.00 X 9.00 (48.26 x 22.86)	3U	Guide Plate	Alum.	V2001-ND	177.41	155.97	CCA13C/90

* 3U = 5.25" (13.34cm); 5U = 8.75U (22.23cm); 7U= 12.25" (31.12cm)

EIA Backplanes

Description	Width x Length Inch (cm)	Plugboard Series	Digi-Key Part No.	Price Each 1	10	Vector Part No.
8 Slot CCK13 Series Backplane	4.35 x 7.00 (11.05 x 17.78)	4610	V1096-ND	237.87	209.12	4610-8-1A
16 Slot CCK13 Series Backplane	4.35 x 13.00 (11.05 x 33.02)	4610	V1097-ND	318.26	279.80	4610-16-1A

Card Rack Accessories

Accessories for card rack enclosures for customizing your application. Card guides are tapered slides for PCB cards to slide along. Snap-In versions provide easy installation without the need for tools. Screw mount versions (comes with hardware) allow card placement anywhere within .25" (6.35mm) spacing.

Description	Length Inch (cm)	Digi-Key Part No.	Price Each 1	10	Vector Part No.
Grab Handle w/ Hardware for Card Racks 5.25" (13.34cm) and 8.75" (22.23cm) height	—	V1161-ND	12.01	10.56	HA12
Ejector Handle w/ Hardware for Cards (4 pcs./bag)	—	V1162-ND	9.59	8.44	HA9/4
T-Strut 1" wide for Customizing Card Rack	16.85 (42.80)	V2002-ND	8.83	7.76	TS169
T-Strut 1" wide for Customizing Card Rack	20.85 (52.96)	V2005-ND	9.77	8.60	TS209
Hardware Kit for Backplane Connector (42 pcs./total)	—	V2006-ND	11.76	10.34	HD34
Nut 4-40 Square Head for T-Strut (25 pcs./bag)	—	V2007-ND	6.22	5.48	NT4-7PA
Flat Head Screw 4-40 THD for T-Struts (25 pcs./bag)	.25 (.64)	V2004-ND	5.61	4.93	SC4-27/25
Bracket Kit for T-Struts	—	V2000-ND	9.81	8.63	BR16A
Plastic Screw Mount Card Guide (Pkg. of 12)	2.89 (7.34)	V1151-ND	23.73	20.87	CG2-45P
Plastic Screw Mount Card Guide (Pkg. of 12)	5.42 (13.77)	V1153-ND	22.28	19.59	CG2-65P
Plastic Screw Mount Card Guide (Pkg. of 12)	6.93 (17.60)	V1156-ND	22.66	19.92	CG2-80P
Plastic Screw Mount Card Guide (Pkg. of 12)	8.14 (20.68)	V1160-ND	23.02	20.24	CG2-95P
Nylon Snap-In Mount Card Guide (Pkg. of 12)	3.17 (8.05)	V1150-ND	14.40	12.66	CG2-45S
Nylon Snap-In Mount Card Guide (Pkg. of 12)	5.42 (13.77)	V1152-ND	12.69	11.16	CG2-65S
Nylon Snap-In Mount Card Guide (Pkg. of 12)	6.93 (17.60)	V1155-ND	18.66	16.40	CG2-80S
Nylon Snap-In Mount Card Guide (Pkg. of 12)	8.43 (21.41)	V1158-ND	16.18	14.23	CG2-95S
Metal Screw Mount Card Guide (Pkg. of 12)	5.42 (13.77)	V1154-ND	28.76	25.28	CG2-65M
Metal Screw Mount Card Guide (Pkg. of 12)	6.93 (17.60)	V1157-ND	36.22	31.84	CG2-80M

PCI Development Boards

For fast development of adapter card to PCI bus.

P/N V1163-ND Features: • Multilayer board contains pad per hole patterns • Power and ground accessible throughout the board • For use in 5 Volt or 3.3 Volt applications • For use with Vector prototype accessories.

Description	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
PCI Plugboard +5V or 3.3V, Pad Per Hole, PTH	V1163-ND	261.83	230.18	204.29	4624-3
PCI Extender Test Card 5V for 32 or 64 Bit	V1166-ND	320.32	281.60	249.92	3690-34-5V
PCI Extender Test Card 3.3V for 32 or 64 Bit	V1167-ND	320.32	281.60	249.92	3690-34-3V
PCMCIA Adapter Board Assembly	V1168-ND	98.10	86.24	76.54	4625-1
PCMCIA Proto Board Kit 4.5" x 6.00" (11.43cm x 15.24cm), Pad Per Hole	V1169-ND	172.15	151.35	134.32	4625-3
PCMCIA Extender Test Card for Type II or III Slots	V1170-ND	150.13	131.99	117.14	3690-35

Edgeboard Connectors

For 1/16" (1.60mm) Thick P.C. Boards

Solder Eyelet Type Insulator Material: Phenolic, UL-94V-0 or Glass filled diallyl; Phthalate UL-94V-1 or Ryton R10 **Wrap Tail Type Insulator Material:** Phenolic, UL-94V-0 or Glass filled diallyl; Phthalate UL-94V-1 or Polyester (VALOX) UL-94V-0 **Contact Material:** Phosphor bronze QQ-B-750 or Beryllium copper. **Contact Plating:** .000010" gold over .000050" nickel. **Test Voltage:** 650VAC **Rated Current:** 3 Amps **Contact Res. Drop: 30 Mv Maximum** @ rated current **Insulation Resistance:** 5000MΩ, mon. @ 500VDC

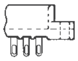
Solder-Eye

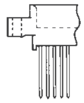
Wire-Wrap

Ctrs. In. (mm)	No. Of Contacts	Termination Type	Mounting Ears	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
.100 (2.54)	72	Wrap Tail	Center	V1061-ND†*	19.84	17.44	15.48	R636-1
.156 (3.96)	44	Solder Eye	Flush	V1062-ND††	13.09	11.51	10.21	R644
.156 (3.96)	44	Wire Wrap	Flush	V1195-ND	11.63	10.23	9.08	R644-3F
.156 (3.96)	44	Wire Wrap	Center	V1196-ND	11.63	10.23	9.08	R644-3C

† Supplied with between-contact polarizing key. * Wrap Tail: 3-level, .025" (.64mm) Square
††-Supplied with between-contact polarizing key and in-contact polarizing key.

CompactPCI® Card Racks

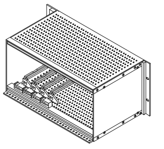

The newest specification for PCI-based computers is CompactPCI. It is electrically a superset of desktop PCI with a different physical form factor. CompactPCI utilizes the Eurocard form factor popularized by the VME bus. Card racks for CompactPCI Bus come completely assembled with card guides. Plug-in power supply and backplane are ordered separately. Standard 3U and 6U heights available with 4 or 8 slot card configurations.

Note: Vented top and bottoms are not included.

Description	Dim. – Inch (cm) Width	Depth	Hgt.	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
Card Rack cPCI	7.4 (18.80)	8.5 (21.59)	3U	V1176-ND	138.14	—	—	CCA26-36
Card Rack cPCI	9.0 (22.86)	8.5 (21.59)	3U	V1177-ND	239.80	—	—	CCA26-44
Card Rack cPCI	7.4 (18.80)	12 (30.48)	3U	V1174-ND	140.12	—	—	CCA27-36
Card Rack cPCI	9.0 (22.86)	12 (30.48)	3U	V1175-ND	140.12	123.19	109.33	CCA27-44
Card Rack cPCI	19 (48.26)	10 (25.40)	6U	V1178-ND	198.20	174.24	154.64	CCA28-84-00
Optional Hardware Kit for Above Racks, 24 pcs. Total				V2003-ND	8.94	7.86	6.98	HD91
Card Guides Snap-In Style for Above Racks				V2008-ND	1.78	1.57	1.40	3250-0001-01

CompactPCI® Backplane

Features: • Backplane design is compliant with the CompactPCI specification 1.0 • CPU slot is on the right • A Drive connector for Peripheral Power is provided • A 4-pin Connector is provided for 12VDC fan connection

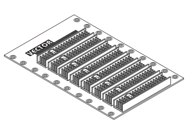

Description	Digi-Key Part No.	Price Each	Vector Part No.
Backplane for CompactPCI, 8 Slot, 6U	V1184-ND	1299.81	CPCIBP8-6-64

VME Card Racks

Vector VME Subracks are designed for 19" systems based on the DIN 41914 standard. Card Racks come in either completely assembled (CCA) or kit form (CCK). Card Guides are ordered separately. Vector backplanes are designed to meet VME bus Spec Rev C1 and Rev D.

Card Cage

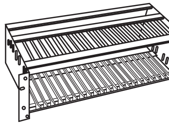

Back Plane

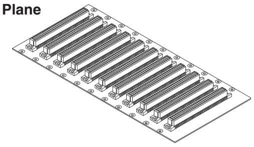

Card Size	Rack Size	Hgt.	Guide Mount Method	Mat-erial	Digi-Key Part No.	Price Each 1	10	Vector Part No.
Assembled Racks								
3U x 160mm	19" x 9.27	3U	Snap-In	Nylon	V1212-ND	177.63	156.16	CCA160-3U
6U x 160mm	19" x 9.27	6U	Snap-In	Nylon	V1213-ND	208.21	183.04	CCA160-6U
3U x 220mm	19" x 11.63	3U	Snap-In	Nylon	V1214-ND	190.66	167.62	CCA220-3U
6U x 220mm	19" x 11.63	6U	Snap-In	Nylon	V1215-ND	207.84	182.72	CCA220-6U
Kitted Racks								
3U x 160mm	19" x 9.27	3U	Snap-In	Nylon	V1216-ND	171.23	150.53	CCK160-3U
3U x 160mm	19" x 11.63	6U	Snap-In	Nylon	V1217-ND	185.40	163.00	CCK160-3U
3U x 220mm	19" x 11.63	3U	Snap-In	Nylon	V1218-ND	174.23	153.17	CCK220-3U
6U x 220mm	19" x 11.63	6U	Snap-In	Nylon	V1219-ND	189.86	166.92	CCK220-6U
Card Guide 160mm Nylon Snap-In Mount, (Pkg. of 12)					V1220-ND	19.53	17.17	CG1-160/12
Card Guide 220mm Nylon Snap-In Mount, (Pkg. of 12)					V1221-ND	23.35	20.53	CG1-220/12

VME/DIN Backplanes

Vector Monolithic Series back planes are designed to meet VMEbus Specification Rev C1 and Rev D. All termination is placed inboard of the two end connectors to allow the maximum number of slots (21) in a 19" RETMA rack. Decoupling capacitors are provided at the ends. The resulting improved power distrubution as well as signal shielding in ground layers creates a high performance back plane with low signal cross talks. Press-fit 96-pin DIN connectors are used. The "P" series which uses a 10-pin power block or "bug" and #6-32 hardware or the "M" series which uses a combination of power bugs and Mate-N-Lok connectors.

Description	Digi-Key Part No.	Price Each 1	10	Vector Part No.
5 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1200-ND	650.65	572.00	VMEBP05P11
7 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1201-ND	960.96	844.80	VMEBP07P11
10 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1202-ND	790.79	695.20	VMEBP10P11
12 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1203-ND	1199.20	1054.24	VMEBP12P11
21 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1204-ND	1599.60	1406.24	VMEBP21P11
5 Slot VME J1/J2, 6U Backplane with Mate-N-Lok Power	V1205-ND	650.65	572.00	VMEBP05M00
7 Slot VME J1/J2, 6U Backplane with Power Bugs and Caps	V1206-ND	760.76	668.80	VMEBP07P00
10 Slot VME J1/J2, 6U Backplane with Mate-N-Lok Power	V1207-ND	790.79	695.20	VMEBP10M00
12 Slot VME J1/J2, 6U Backplane with Mate-N-Lok Power	V1208-ND	850.85	748.00	VMEBP12M00
5 Slot VME J1/J2, 6U Backplane with Power Bugs & Mate-N-Lok	V1210-ND	650.65	572.00	VMEBP05S00
21 Slot VME J1, 3U Backplane	V1211-ND	658.66	579.04	VMEBP21J1

Edgeboard Connectors

96 Pin Din

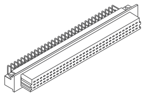

- **Connector Material:** Glass filled polycarbonate
- **Temperature Rating:** -55°C ~ 105°C

Termination Type	Male/ Female	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
Right Angle PC Mount	Female	V1233-ND	15.00	13.19	11.71	RE96FSR
Right Angle Wire Wrap	Female	V1250-ND	19.20	16.88	14.99	RE96FWR
Right Angle PC Mount	Male	V1235-ND	10.52	9.25	8.21	RE96MSR-062
Right Angle Long Lead PCB	Male	V1236-ND	12.99	11.43	10.14	RE96MSR-125
Right Angle Wire Wrap	Male	V1243-ND	20.77	18.26	16.21	RE96MWR
Straight Wire Wrap	Female	V1237-ND	11.99	10.55	9.36	RE96FW
Straight Wire Wrap	Male	V1238-ND	13.20	11.60	10.30	RE96MW
Straight PC Mount	Female (AutoBus)	V1239-ND	19.53	17.17	15.24	RE96FABG
Straight PC Mount	Female	V1234-ND	13.03	11.46	10.17	RE96FSD
Straight Press-Fit	Female	V1240-ND	7.99	7.03	6.24	RE96FSP
Straight Press-Fit Wire Wrap	Female	V1241-ND	12.99	11.43	10.14	RE96FWP

Twin Industries

Solderless Breadboards

Breadboards are commonly used for prototyping because they allow you to quickly build temporary circuits without soldering. Twin Industries premium quality solderless breadboards have aluminum ground plates for high speed and low noise, and a color coding Letter/ Number labeling scheme to assist in circuit layout and debugging. In addition, there are binding posts for convenient attachment of power sources, or input and output signals.

Dim. in Inches (mm)

Fig. 1

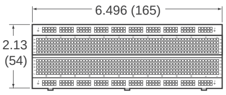

Fig. 2

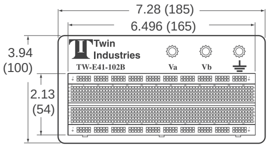

Fig. 3

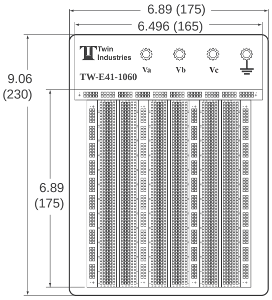

- 70 piece kit contains: 5 of each; 5", 4", 3", 2", 1", 0.9", 0.8', 0.7", 0.6", 0.5", 0.4", 0.3", 0.2" and 0.1" wires.
- 140 piece kit contains: 10 of each; 5", 4", 3", 2", 1", 0.9", 0.8', 0.7", 0.6", 0.5", 0.4", 0.3", 0.2" and 0.1" wires.

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Twin Industries Part No.
1	830 Tie-Points	438-1045-ND	8.73	7.99	TW-E40-1020
	830 Tie-Points with 70 pcs. Wire Kit	438-1046-ND	13.44	12.29	TW-E41-1020
2	830 Tie-Points with 70 pcs. Wire Kit and Binding Post	438-1047-ND	19.74	18.05	TW-E41-102B
3	2390 Tie-Points with 140 pcs. Wire kit and Binding Post	438-1048-ND	37.45	34.24	TW-E41-1060
—	140 pcs. Wire Kit	438-1049-ND	9.98	7.99	TW-E012-000

Extender Cards

Bus extender cards allow units under test (UUT) to be developed in functioning systems. The extenders allow access to the UUT and prevent damage to test systems from repeated removals and insertions. Models with test point allow monitoring of signal activity.

438-1000

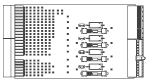

438-1001

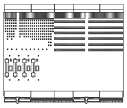

438-1004

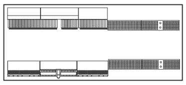

438-1005

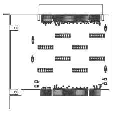

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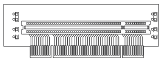

438-1009

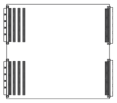

438-1010

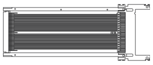

Description	Digi-Key Part No.	Price Each 1	10	Twin Industries Part No.
CompactPCI 3U with Test Points 160mm x 3U	438-1000-ND	273.00	263.90	2000-EXTM
CompactPCI 6U with Test Points 160mm x 6U	438-1001-ND	492.00	475.60	2000-6U-EXTM
CompactPCI 3U x 80mm	438-1002-ND	210.00	203.00	2000-3U-80EX
CompactPCI 6U x 80mm	438-1003-ND	450.00	435.00	2000-6U-80EX
CompactPCI 6U x 80mm Rear I/O (J3-5)	438-1004-ND	417.00	403.10	2000-6U-80EX-REAR
PCI, 32 Bit, 4 Layer with Test Points (3.3 or 5V)	438-1005-ND	158.79	147.20	7586-5EXTM
PCI, 64 Bit, 4 Layer with Test Points (3.3 or 5V)	438-1006-ND	139.12	124.80	7564-UEXTM
PCI, 32 Bit, Right Angle Riser Card	438-1007-ND	51.00	48.00	7586-RAEXTM
PCI, 32 Bit, Left Angle Riser Card	438-1008-ND	51.00	48.00	7586-LAEXTM
VME with Test Points for All Signals	438-1009-ND	125.63	108.80	8196-6U-EXT
PCMCIA, 4 Layer, 2.13" x 6.35" (54mm x 161mm)	438-1010-ND	118.59	99.20	3300-EXTM
AGP, RIght Angle Riser Card	438-1011-ND	44.16	41.60	AGP-RAEXTM
AGP, Left Angle Riser Card	438-1012-ND	44.16	41.60	AGP-LAEXTM
ISA, 2 Layer	438-1013-ND	58.29	51.20	7098-EXT

SMT Adapter Boards

Surface mount components are soldered to pads on boards. Traces extend from pads to prototyping holes on standard 0.1" x 0.1" (2.54mm x 2.54mm) grid. Individual leads can be monitored or other components can be added to evaluate performance of surface mount product. Saves time and prototyping cost. All boards made with FR4 laminate, and featuring ground plane on back side. Pad to pad spacing (pitch) is measured in mils (thousandths of inch).

QFP44-100

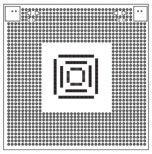

QFP100, 128

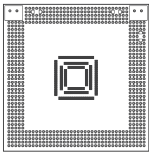

SOIC

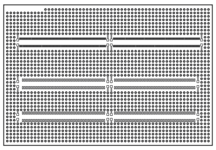

PLCC

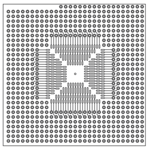

Description	Digi-Key Part No.	Price Each 1	10	Twin Industries Part No.
PLCC 20, 28, 44, 64, 84	438-1031-ND	50.51	44.40	8100-SMT3
SOIC Medium, Wide, Plastic, 50 mil pitch	438-1014-ND	21.84	19.20	8100-SMT4
QFP 44-100, 160, 25 mil pitch	438-1015-ND	29.12	25.60	8100-SMT6
QFP 100, 128, 144, 208, 240, 20 mil pitch	438-1016-ND	41.86	36.80	8100-SMT7
SOIC Medium, Tiny, Metric, 25 mil/50mil	438-1017-ND	41.86	36.80	8100-SMT8
TSOP 40, 48, 56, (20 mil pitch); PSOP 44 (50 mil pitch); SSOP 56 (30 mil pitch)	438-1018-ND	69.16	60.80	8100-SMT9
TSSOP (20 mil pitch) 6" x 4" Board	438-1032-ND	40.04	35.20	8100-SMT10
80 QFP (20 mil pitch) 6" x 4" Board	438-1033-ND	40.04	35.20	8100-SMT11

General Purpose Prototyping Boards

High quality prototyping boards for use in hardware development, rapid prototyping, and wire wrapping projects. **Features**: • FR4 glass epoxy material, 0.062" thick • Grid holes spaced on 0.1" x 0.1" (2.54mm x 2.54mm) centers • Hole size .042" (.035 plated) • PTH = Plated Thru Hole • NP = Non-Plated

7100 Series

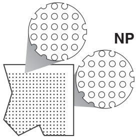

8000 Series

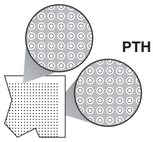

8100 Series

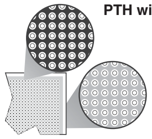

8200 Series

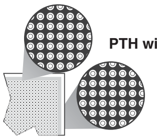

Description – Inch (mm)	Digi-Key Part No.	Price Each 1	10	Twin Industries Part No.
7100 Series				
4 x 5 (101.6 x 127) Unclad (No Copper)	438-1019-ND	4.73	4.16	7100-45
4.5 x 6.5 (114.3 x 165) Unclad (No Copper)	438-1037-ND	8.37	7.36	7100-4565
4.5 x 6.5 (114.3 x 165) Unclad (No Copper) .062" Holes	438-1034-ND	8.37	7.36	7100-062-4565
4.5 x 8.5 (114.3 x 216) Unclad (No Copper) .062" Holes	438-1035-ND	12.65	11.12	7100-062-4585
4 x 10 (101.6 x 254) Unclad (No Copper)	438-1036-ND	10.10	8.88	7100-410
10 x 10 (254 x 254) Unclad (No Copper)	438-1020-ND	23.66	20.80	7100-1010
10 x 20 (254 x 508) Unclad (No Copper)	438-1021-ND	45.50	40.00	7100-1020
8000 Series				
4 x 5 (101.6 x 127) Plated Thru Hole (PTH), Double Sided	438-1022-ND	13.78	12.12	8000-45
4 x 5 (101.6 x 127) Plated Thru Hole (PTH), Double Sided, Lead Free, Gold Plating over Copper	438-1051-ND	14.47	12.72	8000-45-LF
4.5 x 6.5 (114.3 x 165) Plated Thru Hole (PTH), Double Sided	438-1040-ND	21.84	19.20	8000-4565
6.3 x 3.9 (160 x 100) Plated Thru Hole (PTH), Double Sided, 2mm pitch	438-1038-ND	25.21	22.16	8000-2MM-3U
4 x 10 (101.6 x 254) Plated Thru Hole (PTH), Double Sided	438-1039-ND	26.39	23.20	8000-410
4 x 10 (101.6 x 254) Plated Thru Hole (PTH), Double Sided, Lead Free, Gold Plating over Copper	438-1050-ND	27.76	24.40	8000-410-LF
10 x 10 (254 x 254) Plated Thru Hole (PTH), Double Sided	438-1023-ND	61.88	54.40	8000-1010
10 x 20 (254 x 508) Plated Thru Hole (PTH), Double Sided	438-1024-ND	116.48	102.40	8000-1020
8100 Series				
4 x 5 (101.6 x 127) Plated Thru Hole (PTH), GND Plane	438-1025-ND	13.78	12.12	8100-45
4 x 5 (101.6 x 127) Plated Thru Hole (PTH), GND Plane, Lead Free, Gold Plating over Copper	438-1052-ND	14.47	12.72	8100-45-LF
4.5 x 6.5 (114.3 x 165) Plated Thru Hole (PTH) GND Plane	438-1042-ND	21.84	19.20	8100-4565
4 x 10 (101.6 x 254) Plated Thru Hole (PTH) GND Plane	438-1041-ND	26.39	23.20	8100-410
10 x 10 (254 x 254) Plated Thru Hole (PTH), GND Plane	438-1026-ND	61.88	54.40	8100-1010
10 x 20 (254 x 508) Plated Thru Hole (PTH), GND Plane	438-1027-ND	116.48	102.40	8100-1020
8200 Series				
4 x 5 (101.6 x 127) Plated Thru Hole (PTH), Two GND Plane	438-1028-ND	13.78	12.12	8200-45
4 x 5 (101.6 x 127) Plated Thru Hole (PTH), Two GND Plane, Lead Free, Gold Plating over Copper	438-1053-ND	14.47	12.72	8200-45-LF
4.5 x 6.5 (114.3 x 165) Plated Thru Hole (PTH) Two GND Plane	438-1044-ND	21.84	19.20	8200-4565
4 x 10 (101.6 x 254) Plated Thru Hole(PTH), Two GND Plane	438-1043-ND	26.39	23.20	8200-410
10 x 10 (254 x 254) Plated Thru Hole(PTH), Two GND Plane	438-1029-ND	61.88	54.40	8200-1010
10 x 20 (254 x 508) Plated Thru Hole(PTH), Two GND Plane	438-1030-ND	116.48	102.40	8200-1020

INJECTORALL
Electronics Corp.

Positive Coated Sensitized Copper Clad Boards

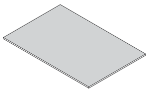

Coated Copper Clad PC Board

Make your own professional looking prototype boards with trace widths as narrow as .005" (.13mm). All boards are FR4 material and come packaged individually in a black bag with blue header.

CAUTION: Do not open in direct sun–light, open in darkroom environment only.

Developer and etchant solution available from Injectorall.

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
Single Sided			
1/16" (.159cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC17P-ND	4.95	PC17P
4 x 6 (10.16 x 15.24)	PC18P-ND	7.93	PC18P
4.5 x 7 (11.43 x 17.78)	PC18P-C-ND	8.32	PC18P-C
6 x 6 (15.24 x 15.24)	PC18P-S-ND	9.50	PC18P-S
6 x 9 (15.24 x 22.86)	PC19P-ND	14.50	PC19P
12 x 12 (30.48 x 30.48)	PC19P-T-ND	35.05	PC19P-T
12 x 18 (30.48 x 45.72)	PC19AP-ND	52.55	PC19AP
18 x 18 (45.72 x 45.72)	PC19AP-E-ND	70.94	PC19AP-E
1/16" (.159cm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC9P-ND	5.71	PC9P
4 x 6 (10.16 x 15.24)	PC10P-ND	9.70	PC10P
6 x 9 (15.24 x 22.86)	PC11P-ND	20.04	PC11P
12 x 12 (30.48 x 30.48)	PC11P-T-ND	41.30	PC11P-T
Double Sided			
1/16" (.159cm) Thick, 1/2 oz Copper			
12 x 18 (30.48 x 45.72)	PC77P-ND	86.62	PC77P
18 x 18 (45.72 x 45.72)	PC77P-E-ND	116.92	PC77P-E
1/16" (.159cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC40P-ND	6.06	PC40P
4 x 6 (10.16 x 15.24)	PC41P-ND	8.83	PC41P
4.5 x 7 (11.43 x 17.78)	PC41P-C-ND	11.60	PC41P-C
6 x 6 (15.24 x 15.24)	PC41P-S-ND	13.25	PC41P-S
6 x 9 (15.24 x 22.86)	PC42P-ND	18.75	PC42P
12 x 12 (30.48 x 30.48)	PC42P-T-ND	49.99	PC42P-T
1/16" (.159cm) Thick, 4 oz Copper			
4 x 6 (10.16 x 15.24)	PC80P-ND	16.37	PC80P
18 x 18 (45.72 x 45.72)	PC82P-E-ND	137.38	PC82P-E
Single Sided			
1/32" (.079cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC55P-ND	4.26	PC55P
4 x 6 (10.16 x 15.24)	PC56P-ND	7.16	PC56P
4.5 x 7 (11.43 x 17.78)	PC56P-C-ND	8.51	PC56P-C
6 x 9 (15.24 x 22.86)	PC57P-ND	14.61	PC57P
Double Sided			
1/32" (.079cm) Thick, 1 oz Copper			
18 x 18 (45.72 x 45.72)	PC47P-E-ND	85.72	PC47P-E
Single Sided			
.014" (.036cm) Thick, 1 oz Copper			
18 x 18 (45.72 x 45.72)	PC97P-E-ND	62.19	PC97P-E

Positive PC Board Accessories

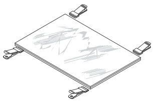

Glass Exposure Kit

Use re-useable exposure guide for determining your exposure time to the distance of the exposure lamp for your application. The UV exposure lamp is a 15W lamp for exposing the presensitized board. Intended to be used with your fluorescent 18" bi-pin fixture. Glass exposure kit consists of two pieces of properly sized glass with spring clips. Used to position and hold mylar positive and board during the exposure process.

Description	Digi-Key Part No.	Price Each	Injectorall Part No.
Reusable Exposure Guide Kit	PC50A-ND	2.78	PC50A
18" Fluorescent Exposure Lamp, Bi-Pin	PC557F-ND	20.74	PC557F
Glass Exposure Kit for 4x6" (10.16x15.24cm) and smaller, 6 Pcs.	PC-GL46-ND	4.78	PC-GL46
Glass Exposure Kit for 6x9" (15.24x22.86cm) and smaller, 6 Pcs.	PC-GL69-ND	7.78	PC-GL69
Glass Exposure Kit for 14x18" (35.56x45.72cm) and smaller, 8 Pcs.	PC-GL1218-ND	20.91	PC-GL1218
Clear Mylar Film, 4x6" (10.16x 15.24cm) 2 Sheet Pack	PC36-ND	2.00	PC36
Clear Mylar Film, 6x9" (15.24x 22.86cm) 2 Sheet Pack	PC37-ND	2.85	PC37
Clear Mylar Film, 12x18" (30.48x45.72cm) 2 Sheet Pack	PC38-ND	6.00	PC38

Uncoated Copper Clad Boards

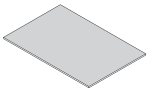

All boards are made from FR4 material. 1/2 oz. copper is ideal for shorter etching times and very fine trace lines. Use 2 oz. and thicker for higher current applications and heatsinking. 1/16 inch thick boards are standard with thinner boards offering board flexibility and reduced weight.

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
Single Sided			
1/16" (.159cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC5-ND	3.10	PC5
4 x 6 (10.16 x 15.24)	PC6-ND	4.10	PC6
4.5 x 7 (11.43 x 17.78)	PC6-C-ND	4.46	PC6-C
6 x 6 (15.24 x 15.24)	PC6-S-ND	5.10	PC6-S
6 x 9 (15.24 x 22.86)	PC7-ND	7.25	PC7
12 x 12 (30.48 x 30.48)	PC7-T-ND	15.24	PC7-T
12 x 18 (30.48 x 45.72)	PC8-ND	22.86	PC8
18 x 18 (45.72 x 45.72)	PC8-E-ND	34.29	PC8-E
1/16" (.159cm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC9-ND	3.13	PC9
4 x 6 (10.16 x 15.24)	PC10-ND	4.98	PC10
4.5 x 7 (11.43 x 17.78)	PC10-C-ND	5.81	PC10-C
6 x 6 (15.24 x 15.24)	PC10-S-ND	6.65	PC10-S
6 x 9 (15.24 x 22.86)	PC11-ND	9.95	PC11
12 x 12 (30.48 x 30.48)	PC11-T-ND	22.12	PC11-T
12 x 18 (30.48 x 45.72)	PC12-ND	33.17	PC12
18 x 18 (45.72 x 45.72)	PC12-E-ND	42.13	PC12-E
Double Sided			
1/16" (.159cm) Thick, 1/2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC74-ND	4.26	PC74
4 x 6 (10.16 x 15.24)	PC75-ND	6.73	PC75
4.5 x 7 (11.43 x 17.78)	PC75-C-ND	7.93	PC75-C
6 x 6 (15.24 x 15.24)	PC75-S-ND	9.03	PC75-S
6 x 9 (15.24 x 22.86)	PC76-ND	14.31	PC76
12 x 12 (30.48 x 30.48)	PC76-T-ND	24.34	PC76-T
1/16" (.159cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC40-ND	3.25	PC40
4 x 6 (10.16 x 15.24)	PC41-ND	3.87	PC41
4.5 x 7 (11.43 x 17.78)	PC41-C-ND	5.08	PC41-C
6 x 6 (15.24 x 15.24)	PC41-S-ND	5.80	PC41-S
6 x 9 (15.24 x 22.86)	PC42-ND	6.57	PC42
12 x 12 (30.48 x 30.48)	PC42-T-ND	17.50	PC42-T
12 x 18 (30.48 x 45.72)	PC43-ND	26.27	PC43
18 x 18 (45.72 x 45.72)	PC43-E-ND	39.40	PC43-E
1/16" (.159cm) Thick, 2 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC51-ND	4.66	PC51
4 x 6 (10.16 x 15.24)	PC52-ND	7.45	PC52
6 x 9 (15.24 x 22.86)	PC53-ND	15.11	PC53
12 x 12 (30.48 x 30.48)	PC53-T-ND	28.46	PC53-T
12 x 18 (30.48 x 45.72)	PC54-ND	42.67	PC54
Single Sided			
1/32" (.079cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC55-ND	3.33	PC55
4 x 6 (10.16 x 15.24)	PC56-ND	4.35	PC56
4.5 x 7 (11.43 x 17.78)	PC56-C-ND	4.53	PC56-C
6 x 6 (15.24 x 15.24)	PC56-S-ND	5.18	PC56-S
6 x 9 (15.24 x 22.86)	PC57-ND	7.78	PC57
12 x 12 (30.48 x 30.48)	PC57-T-ND	15.59	PC57-T
Double Sided			
1/32" (.079cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC44-ND	3.10	PC44
4 x 6 (10.16 x 15.24)	PC45-ND	4.25	PC45
6 x 6 (15.24 x 15.24)	PC45-S-ND	5.17	PC45-S
6 x 9 (15.24 x 22.86)	PC46-ND	7.75	PC46
12 x 12 (30.48 x 30.48)	PC46-T-ND	17.31	PC46-T
12 x 18 (30.48 x 45.72)	PC47-ND	25.97	PC47
Single Sided			
.014" (.036cm) Thick, 1 oz Copper			
3 x 4.5 (7.62 x 11.43)	PC94-ND	2.33	PC94
4 x 6 (10.16 x 15.24)	PC95-ND	4.35	PC95
6 x 6 (15.24 x 15.24)	PC95-S-ND	5.18	PC95-S
6 x 9 (15.24 x 22.86)	PC96-ND	7.78	PC96
12 x 18 (30.48 x 45.72)	PC97-ND	23.37	PC97

Unclad PC Boards

Unclad (no copper) pc boards made of FR4 fiberglass material. Ideal for isolation of point-to-point wiring and wire wrapping applications.

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
1/32" (.79mm) Thick			
3 x 4.5 (7.62 x 11.43)	PC55-UNCLAD-ND	2.37	PC55-UNCLAD
4 x 6 (10.16 x 15.24)	PC56-UNCLAD-ND	3.47	PC56-UNCLAD
6 x 9 (15.24 x 22.86)	PC57-UNCLAD-ND	6.50	PC57-UNCLAD
12 x 18 (30.48 x 45.72)	PC58-UNCLAD-ND	21.71	PC58-UNCLAD
1/16" (3.17mm) Thick			
3 x 4.5 (7.62 x 11.43)	PC5-UNCLAD-ND	3.00	PC5-UNCLAD
4 x 6 (10.16 x 15.24)	PC6-UNCLAD-ND	4.66	PC6-UNCLAD
6 x 9 (15.24 x 22.86)	PC7-UNCLAD-ND	9.00	PC7-UNCLAD
12 x 18 (30.48 x 45.72)	PC8-UNCLAD-ND	23.99	PC8-UNCLAD

Drilled Copper Clad Breadboards

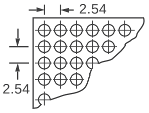

Double sided copper clad boards with drilled holes on .1" centers. Hole diameter of .042" fits most components. Perfect for use with pad cutting tool to customize your circuits. 1/16" thick board.

Dimensions Inch (cm)	Digi-Key Part No.	Price Each	Injectorall Part No.
3 x 4.5 (7.62 x 11.43)	B3426D-ND	9.05	B3426D
4 x 6 (10.16 x 15.24)	B3427D-ND	13.42	B3427D
5.75 x 8.5 (14.60 x 21.59)	B3428D-ND	22.80	B3428D
5.75 x 17 (14.60 x 43.18)	B3429D-ND	38.00	B3429D
11.5 x 17 (29.21 x 43.18)	B3429AD-ND	70.00	B3429AD

3M

Terminal and Distribution Strips

Fig. 1

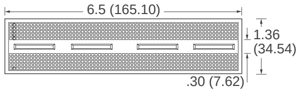

Fig. 2

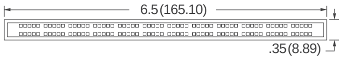

Fig. 3

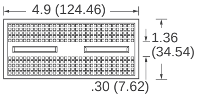

Fig. 4

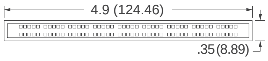

Fig. 5

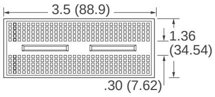

Fig. 6

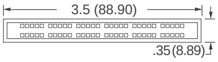

Fig. 7

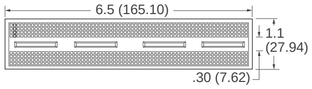

Fig. 8

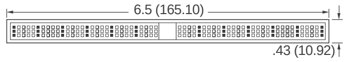

Fig. 9

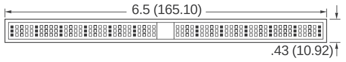

Fig. 10

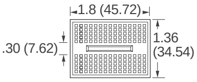

Fig.	Description	Digi-Key Part No.	Price Each
1	Terminal Strip, 128 five-tie-point terminals	923261-ND	16.92
2	Distribution Strip, 24 four-tie-point terminals	923277-ND	6.87
3	Terminal Strip, 96 five-tie-point terminals	923265-ND	13.99
4	Distribution Strip, 18 four-tie-point terminals	923281-ND	6.57
5	Terminal Strip, 68 five-tie-point terminals	923269-ND	10.97
6	Distribution Strip, 24 four-tie-point terminals	923285-ND	6.22
7	Terminal Strip, 128 four-tie-point terminals	923289-ND	15.72
8	Terminal Strip, 54 four-tie-point terminals w/solder tails, vinyl backed, mounting screws provided	923292-ND	12.80
9	Distribution Strip, 36 four-tie point terminals	923293-ND	9.05
10	Terminal Strip, 34 five-tie-point terminals	923273-ND	7.37

MG Chemicals

Uncoated Copper Clad Boards

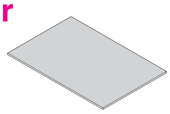

We offer 1/16", 1/32" and 1/64" FR4 laminate with 1 ounce copper per square foot. This flame retardant laminate is translucent in color and made of continuous woven glass cloth impregnated with epoxy resin. The copper on 1 ounce board is 1.34 mil thick (0.0341mm). The boards are made of FR4 which is a flame retardant version of G-10 material. Developed specifically for the circuit processing industries requirements. Complies with Mil-S-13949H-GFK. Provides ultraviolet blocking and fluorescence when using automated optical inspection (AOI). UL #E37002A

PCB Thickness	Dimension	Copper	Digi-Key Part No.	Price Each
Single Sided				
1/16"	3" x 5"	1oz.	473-1000-ND	3.68
1/16"	4" x 6"	1oz.	473-1001-ND	4.62
1/16"	6" x 6"	1oz.	473-1002-ND	5.68
1/16"	6" x 9"	1oz.	473-1003-ND	7.96
1/16"	8" x 10"	1oz.	473-1004-ND	11.72
1/16"	12" x 12"	1oz.	473-1005-ND	15.74
1/32"	4" x 6"	1oz.	473-1008-ND	4.62
1/32"	6" x 9"	1oz.	473-1009-ND	7.96
1/32"	12" x 12"	1oz.	473-1026-ND	15.74
1/64"	6" x 9"	1oz.	473-1012-ND	7.96
Double Sided				
1/16"	6" x 6"	1oz.	473-1006-ND	6.48
1/16"	12" x 12"	1oz.	473-1007-ND	18.02
1/32"	4" x 6"	1oz.	473-1010-ND	5.02
1/32"	6" x 9"	1oz.	473-1011-ND	8.36
1/32"	12" x 12"	1oz.	473-1027-ND	18.02
1/64"	6" x 9"	1oz.	473-1013-ND	8.36

Positive Coated Presensitized Boards

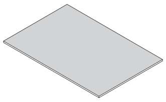

Our presensitized boards provide high resolution and excellent fine line control. They are ideal for prototypes, small production runs, and student training. White protective peel-off liner is attached to protect board from incident light and scratching.

We also offer a large thin (12" x 18" x 1/32 inch) cat#675 paper phenolic presensitized board (Easy Cutting!!), perfect for cutting into smaller boards with no special equipment. Perfect for the classroom.

PCB Thickness	Dimension	Copper	Digi-Key Part No.	Price Each
Single Sided				
1/16"	3" x 5"	1oz.	473-1014-ND	8.50
1/16"	4" x 6"	1oz.	473-1015-ND	9.04
1/16"	6" x 6"	1oz.	473-1016-ND	9.98
1/16"	6" x 9"	1oz.	473-1017-ND	14.94
1/32"	4" x 6"	1oz.	473-1020-ND	9.04
1/32"	6" x 9"	1oz.	473-1021-ND	14.94
Paper Phenolic Single Sided				
1/32"	12" x 18"	1oz.	473-1018-ND	32.08
Double Sided				
1/16"	6" x 6"	1oz.	473-1023-ND	13.86
1/16"	6" x 9"	1oz.	473-1024-ND	19.22
1/32"	6" x 9"	1oz.	473-1025-ND	19.22
1/64"	6" x 9"	1oz.	473-1022-ND	19.22
Paper Phenolic Double Sided				
1/32"	8" x 12"	1oz.	473-1019-ND	27.12

INJECTORALL
Electronics Corp.

Drill Bits

Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Injectorall Part No.
High Speed Steel				
.062" (1.57)	PC300-52-ND	1.77	1.29	PC300-52
.052" (1.32)	PC300-55-ND	1.96	1.43	PC300-55
.040" (1.02)	PC300-60-ND	1.96	1.43	PC300-60
.033" (.84)	PC300-66-ND	2.23	1.63	PC300-66
.029" (.74)	PC300-69-ND	2.51	1.83	PC300-69
.021" (.53)	PC300-75-ND	2.51	1.83	PC300-75
.0135" (.34)	PC300-80-ND	2.51	1.83	PC300-80
Carbide – All carbide bits have 1/8" (3.18mm) shank				
.062" (1.57)	PC300C-52-ND	9.26	8.11	PC300C-52
.052" (1.32)	PC300C-55-ND	7.55	6.61	PC300C-55
.040" (1.02)	PC300C-60-ND	7.55	6.61	PC300C-60
.033" (.84)	PC300C-66-ND	7.55	6.61	PC300C-66
.031" (.79)	PC300C-68-ND	7.55	6.61	PC300C-68
.029" (.74)	PC300C-69-ND	7.55	6.61	PC300C-69
.021" (.53)	PC300C-75-ND	12.01	10.51	PC300C-75
.0135" (.34)	PC300C-80-ND	12.01	10.51	PC300C-80

MG Chemicals

Economical Etching System

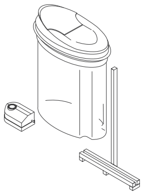

Ideal for students and hobbyists.
An inexpensive etching solution.

- 5 liter heavy duty polyethylene etching tank
- Air pump and tubing
- Sparging unit
- Bag of vinyl gloves
- Complete instructions

473-1029-ND Economical Etching System. **$45.48**

Etching Copper Clad Circuits

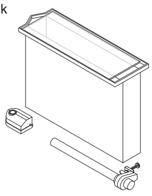

- 7 liter heavy duty polyethylene etching tank
- Sturdy mounting bracket
- Clear acrylic lid
- Heavy duty air pump
- Three way adjustable airline manifold
- Triple line sparging unit
- 200 watt "Over the Side" immersion heater with quartz element, preset/adjustable temperature control
- Adhesive digital thermometer
- Bag of vinyl gloves
- Complete instructions

473-1028-ND Kit Etching PCB with Heater and Pump. **$190.80**
473-1039-ND ***NEW!*** Replacement Immersion Heater - 115VAC **$36.10**
473-1042-ND ***NEW!*** Replacement Air Pump - 115VAC. . . .**$32.08**

NEW! Exposure Kit

Convenient kit required to "expose" presensitized copper-clad boards. Includes exposure tube, clear-acrylic weight for artwork, fluorescent-light fixture with stand and complete instructions.

473-1030-ND PCB Photo Exposure Kit - 115VAC **$46.82**
473-1031-ND Replacement Exposure Bulb **$11.32**

NEW! Desoldering Braid

Super Wick™

RMA type flux, Come on static dissipative spools on all sizes. No Clean Wick (NS) offers Halide free residue that is non-corrosive and does not require cleaning.

Length Feet	Width Inches	Color	Digi-Key Part No.	Price Each
Fine Braid RMA Flux				
5	0.025	#1 White (SMT)	473-1060-ND	2.34
5	0.050	#2 Yellow	473-1061-ND	2.34
5	0.075	#3 Green	473-1062-ND	2.34
5	0.100	#4 Blue	473-1063-ND	2.46
5	0.125	#5 Brown	473-1064-ND	2.96
25	0.050	#2 Yellow	473-1065-ND	9.90
25	0.075	#3 Green	473-1066-ND	9.90
25	0.100	#4 Blue	473-1067-ND	10.74
50	0.025	#1 White (SMT)	473-1068-ND	19.90
50	0.050	#2 Yellow	473-1069-ND	19.90
50	0.075	#3 Green	473-1070-ND	19.90
50	0.100	#4 Blue	473-1071-ND	21.36
100	0.050	#2 Yellow	473-1072-ND	38.90
100	0.075	#3 Green	473-1073-ND	38.90
100	0.100	#4 Blue	473-1074-ND	41.90
Fine Braid No Clean				
5	0.050	#2 Yellow	473-1075-ND	2.70
5	0.075	#3 Green	473-1076-ND	2.80
5	0.100	#4 Blue	473-1077-ND	3.00
50	0.075	#3 Green	473-1078-ND	23.90
50	0.100	#4 Blue	473-1079-ND	25.90

NEW! Prototyping Maintenance / Repair Pens

Convenient micro tip pen allows for delicate spot repair and maintenance on circuit boards. Choose from a wide range of pens.

Description	Digi-Key Part No.	Price Each
Etch Resistant Trace Pen	473-1032-ND	7.30
Rosin Flux Pen	473-1033-ND	7.30
Flux Remover Rework Pen	473-1034-ND	6.62
Conductive Silver Trace Pen	473-1035-ND	20.02
Green Overcoat Pen (Acrylic)	473-1036-ND	9.30
Silicone Conformal Coating Pen	473-1037-ND	10.64

NEW! Prototyping Accessories

Description	Digi-Key Part No.	Price Each
Transparency Film (5 sheets), 8" x 11.5"	473-1038-ND	9.30
Foam Brush for ethcant or developer	473-1040-ND	2.06
Latex Disposable Gloves (10 gloves)	473-1041-ND	7.30
Presaturated Alcohol Wipes - 90 wipes	473-1081-ND	11.98
Presat. LCD Cleaning Wipes - 90 wipes	473-1080-ND	10.24

NEW! Brushes

Abrasive Brushes: Excellent utility brush. Great for cutting corrosion and removing oxides from connector ends. Also great for cleaning soldering iron tips. Burnish contacts without removing base metals. An excellent gold contact cleaner.

Non Abrasive Brushes: Excellent for removing flux and general cleanup. Can be used dry or wet. Works well with sticky or crusty materials.

Technical Cleaning Brushes: Works well for dusting, cleaning with fluids and general cleanup. Excellent for removing flux.

Abrasive Cleaning Brush

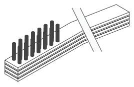

Non Abrasive Cleaning Brush

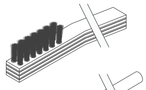

Technical Cleaning Brush
(473-1048-ND shown)

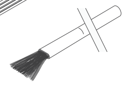

Description	Digi-Key Part No.	Price Each
Abrasive Cleaning Brushes		
Stainless Steel, Brush Face 1 3/8" x 7/16"	473-1043-ND	5.96
Brass, Brush Face 1 3/8" x 7/16"	473-1044-ND	8.64
Non Abrasive Cleaning Brushes		
Hog Hair, Brush Face 1 3/8" x 7/16"	473-1045-ND	5.02
Hog Hair, Brush Face 2 1/4" x 1"	473-1046-ND	9.70
Horse Hair, Brush Face 1 3/8" x 7/16"	473-1047-ND	4.94
Technical Cleaning Brushes		
Horse Hair (5 pcs.), Brush Face 1/4" x 3/8"	473-1048-ND	3.68
Double Ended Horse Hair, Brush Face 1/4" x 5/16".	473-1049-ND	8.64
Wooden Chisel Hog Hair, Brush Face 3/4" x 5/16".	473-1050-ND	7.96

NEW! Swabs

Double Headed Cotton Swab: Low lint, extra absorbent U.S.P. pharmaceutical grade purified cotton bonded on a 6" white birch shaft for extra rigidness. Compatible with all solvents.

Tapered Swab: Low lint, extra absorbent U.S.P. pharmaceutical grade purified cotton bonded on a 6" white birch shaft for extra rigidness. Compatible with all solvents.

Foam Over Cotton Swab: Shred resistant, 100% urethane foam heads with 100 PPI porosity over extra absorbent U.S.P. pharmaceutical grade purified cotton. Bonded securely to a 6" birch shaft. Compatible with most solvents.

Antistatic Foam Over Cotton Swab: Antistatic, shred resistant, 100% urethane foam heads with 100 PPI porosity over extra absorbent U.S.P. pharmaceutical grade purified cotton. Bonded securely to a 6" birch shaft. Compatible with most solvents.

General Foam Swab: Shred resistant, 100% urethane foam heads with 100 PPI porosity. Bonded securely to a 6" birch shaft.

Rectangular Foam Swab: Large foam head bonded to sturdy handle for aggressive cleaning applications.

Description	Digi-Key Part No.	Price Each
Double Headed Cotton		
100 Swabs per package	473-1051-ND	3.68
Tapered		
Double Headed, 100 Swabs per package	473-1052-ND	3.68
Foam Over Cotton		
Single Headed, 10 Swabs per package	473-1053-ND	5.68
Single Headed, 50 Swabs per package	473-1054-ND	18.68
Antistatic Foam Over Cotton		
10 Swabs per package	473-1055-ND	6.62
General Foam		
Single Headed, 10 Swabs per package	473-1056-ND	4.34
Single Headed, 50 Swabs per package	473-1057-ND	14.66
Rectangular Foam		
10 Swabs per package	473-1058-ND	5.68
50 Swabs per package	473-1059-ND	18.68

Pulsar

TONER TRANSFER SYSTEM

Make instant circuit boards using any laser printer or photocopier!

Simple 3-Step Process:

1. Print circuit layout directly to TTS paper
2. Iron the image to copper-clad board
*3. Soak in water to remove paper; **now ready to etch!***

NO DARKROOM!
NO NEGATIVES!
NO CHEMICALS!
NO LOST TIME!

- Detailed instructions included for making single and double sided PCB's
- Also shows how to make custom full color decals for any application
- Sheet size: 8-1/2" x 11" (21.59cm x 27.94cm)

182-1003-ND (10 Sheet Pack) **$14.95**

NEW! PCB Fabrication Starter Kit

Everything that you need to make high quality single and double sided PCB's in 15 minutes.

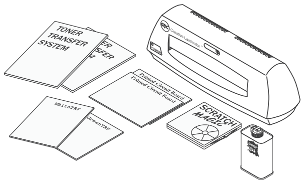

Kit Includes:

- 20 Sheets of TTS paper
- Green TRF
- White TRF
- 2 - 8 x 10 x .032" Single Sided PCB's
- 2 - 8 x 10 x .032" Double Sided PCB's
- 9" TIA Laminator - 120VAC

182-1024-ND Complete PCB Fabrication Starter Kit for PCB's **$128.56**

NEW! DecalPro "Mini" Starter Kit

Everything to make B/W or full color decals. Perfect for adding an overlay to your box or project panel.

Kit Includes: • 20 Sheets of TTS paper • "Carrier" TRF (15") • 60' Foil Samples • KK-2000 adhesive spray • 3M "Low Tack" tape • 4.2 oz. Cleaner • Sample Images

182-1025-ND DecalPro "Mini" Starter Kit for panels and box graphics **$57.12**

Toner Foils "Green TRF"

Simple 4-Step Process: *1. Transfer image to copper surface using the TTS paper 2. Iron on the Green TRF film 3. Pour 2 ounces Ferric Chloride into tray 4. Using an etchant soaked sponge, rub away the unwanted copper. (Disposable gloves required)*

• Works in conjunction with TTS paper • Completely seals the toner • ZERO pitting • Able to use heavier copper boards • Size: 8" Wide x 15'

182-1021-ND **$8.95**

Toner Foils "White TRF"

Use the White TRF for adding "silkscreen" artwork to your board! Simply place the white TRF paper over your exposed toner "silkscreen" and apply heat to transfer the white pigment onto the toner which is fused to your PCB. Perfect for finishing off your prototype boards and giving them a professionally silkscreened appearance. • Size: 8" Wide x 15'

182-1022-ND **$8.95**

Printed Circuit Boards - 2 Pack

Copper Clad Boards
1/2 oz. Copper

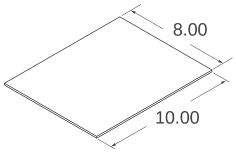

182-1020-ND	PCB Double Sided, .064", "8x10", 1/2 oz., 2 Panels	**$24.95**
182-1017-ND	PCB Single Sided, .032", "8x10", 1/2 oz., 2 Panels	**$16.95**
182-1018-ND	PCB Double Sided, .032", "8x10", 1/2 oz., 2 Panels	**$17.95**

GC ELECTRONICS

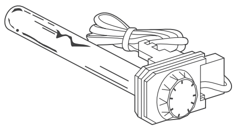

Etching Solution Heater

Fits in tank and heats solution up to 38°C (100°F). Used to further reduce etching time. Built-in adjustable thermostat controls temperature continuously to 100°F (38°C). 120V AC/100 W Max.

GC392-ND **$20.47**

Etch Resist Ink Pens

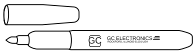

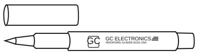

Black felt tip pen for making resist circuits directly on PC boards. Dries instantly for neat, easy application.

GC220-ND	Standard Size - draws lines approximately 1/32" (.79mm) wide	**$4.19**
GC222-ND	Fine Line - draws lines as thin as 1/64" (.40mm) wide	**$4.46**

GC ELECTRONICS

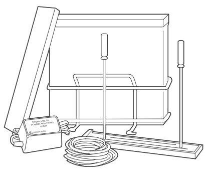

Professional PC Board Power Etching System

A semi-automatic etching device for use in labs, schools, prototype shops and for limited PC board production. Air pump agitates etching solution for fast, very even etches. Handles up to two 8" x 10" (20.32cm x 25.40cm) PC boards at a time, either single or double sided.

Kit Contains: • 1 Etching Tank (1.25 Gallon capacity; 4.73 Liters) and Reservoir Lid, 12"H x 2 1/2"W x 10 1/2"L (30.48cm x 6.35cm x 26.67cm), (Molded Polyethylene — ABS PC Board Holder), Capacity • 1 Etch-O-Matic Power Agitating Pump, 120V AC Operation • 1 Permanent or Portable Tip-Free Base • 1 PC Board Holder and Handle • 4 Feet (1.22 Meters) of Supply Hose

GC394-ND **$96.03**

VECTOR
ELECTRONICS & TECHNOLOGY, INC

Specialty Prototyping Boards

Fig. 1

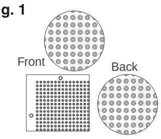

Fig. 2

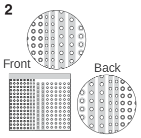

Fig. 3

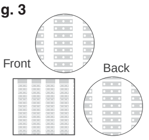

Fig. 4

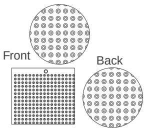

Fig. 5

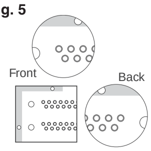

Fig. 6

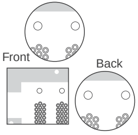

Material: FR-4

Fig.	Description	Dimensions W x L x H	Digi-Key Part No.	Price Each 1	10	25
1	Prototype Board, 2mm Grid, Pad-Per-Hole with J1 Connector,.025" holes plated thru	3.94" x 6.3" x .062"	V1253-ND	25.03	22.00	19.53
2	Combo Board, 2mm/.100" Grid, Pad-Per-Hole with J1, 0.25" and .042" holes plated thru	3.94" x 6.3" x .062"	V1254-ND	29.03	25.52	22.65
3	Prototype Board, 2mm Grid, Three Hole Solder Pads, 0.25" holes plated thru	3.94" x 6.3" x .062"	V1255-ND	17.53	15.41	13.68
4	Combo Board, 2mm/.100"/.050" Pad-Per-Hole 3-Grid Combo, 0.25" & 0.42" holes plated thru	3.94" x 6.3" x .062"	V1256-ND	17.53	15.41	13.68
5	Prototype Board, Standard Density 25, 15, 9 Pin, D-Sub, 0.39" Diameter Holes	3.94" x 6.3" x .062"	V1251-ND	20.00	17.59	15.61
6	Prototype Board, High Density 15, 26, 44, 62, 78, and 104 Pin, D-Sub, 0.39" Diameter Holes	9.19" x 6.3" x .062"	V1252-ND	26.01	22.87	20.30

Prototyping Boards

Fig. 1

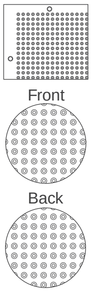

Fig. 2

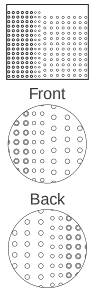

Fig. 3

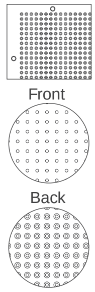

Fig.	Description	Dimensions W x L x H	Digi-Key Part No.	Price Each 1	10	25	Vector Part No.
1	Prototype Board, 2mm Grid, Pad-Per-Hole 0.25" Double Sided, PTH	3.94" x 6.3" x .062"	V2013-ND	17.53	15.41	13.68	8017
2	Combo Board, 2mm/.100" Grid, Pad-Per-Hole Double Sided, PTH	3.94" x 6.3" x .062"	V2014-ND	17.49	15.38	13.65	8018
1	Prototype Board, 1mm Grid, Pad-Per-Hole 0.25" Double Sided, PTH	3.94" x 6.3" x .062"	V2016-ND	34.03	29.92	26.56	8020
1	Low Cost Double Sided, .100 x .100" Grid, Pad-Per-Hole, PTH	4.00" x 6.00" x .062"	V2009-ND	11.52	10.13	8.99	8015
3	Low Cost Single Sided, .100 x .100" Grid, Pad-Per-Hole, PTH	4.00" x 4.00" x .062"	V2010-ND	7.33	6.45	5.73	8015-1
1	Low Cost Double Sided, .100 x .100" Grid, Pad-Per-Hole, PTH	6.00" x 9.00" x .062"	V2011-ND	16.93	14.88	13.21	8016
3	Low Cost Single Sided, .100 x .100" Grid, Pad-Per-Hole, PTH	6.00" x 6.00" x .062"	V2012-ND	10.59	9.32	8.27	8016-1

SURFBOARDS® by CAPITAL ADVANCED TECHNOLOGIES INC.™ The Breadboarding Medium for Surface Mount

The Surfboard Concept: The concept behind SURFBOARDS is elegantly simple. Many models incorporate foil patterns that are designed to accommodate a wide variety of component mounting footprints. SURFBOARD® models for SOICs and PLCCs provide standard mounting footprints for the IC and depending on the model chosen, will include a prototyping area for additional components or provide a direct pin-out. Most SURFBOARD® models feature SIP (single in line) pins that make prototyping and interfacing with other circuits easy.

Specifications: • Material: G-10 FR-4 Fiberglass laminate, 1oz. Cu. .032" (.81mm). Thickness ±.005" (±.13mm) • Finish: Level 60/40 Solder alloy • S.I.P. Pins: On applicable models. Soldered on .100" (2.54mm) centers. SURFBOARDS® can be hand soldered and are compatible with most industrial soldering processes. (Suggested soldering and assembly guidelines included).

The universal circuit patterns allow for the mounting of 0603, 0805, 1206 and mini-melf packages as well as a wide variety of 3 terminal devices.

SOT-23

Trimmers

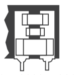
0805, 0603, 1206

6000 Series for Discrete Devices — .1" (2.54mm) Pin Spacing

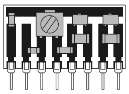

For building:

- Resistor Networks
- Capacitor Networks
- R-C Networks
- Diode Arrays
- Transistor Arrays
- SMD Sub-Assemblies

Fig. 1

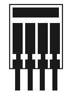

Fig. 2

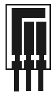

Fig. 3

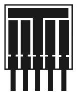

Fig. 4

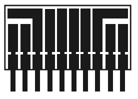

Fig. 5

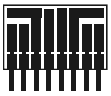

Fig. 6

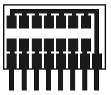

Fig. 7

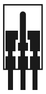

All 6000 Series boards are .5" (12.7mm) high with .1" (2.54mm) pin spacing. SURFBOARDS® with a greater pin count repeat the same basic pattern as shown.

Fig.	No.of Pins	Digi-Key Part No.	Pricing 1	10
SURFBOARDS® for Discrete Components				
1	4	6004CA-ND	1.72	13.14
	6	6006CA-ND	2.04	15.66
	7	6007CA-ND	2.28	17.46
	8	6008CA-ND	2.51	19.26
	10	6010CA-ND	3.08	23.58
	12	6012CA-ND	3.67	28.08
2	3	6103CA-ND	1.48	11.34
	6	6106CA-ND	2.04	15.66
	9	6109CA-ND	2.63	20.16
	12	6112CA-ND	3.67	28.08
	15	6115CA-ND	4.23	32.40

Fig.	No.of Pins	Digi-Key Part No.	Pricing 1	10
3	5	6405CA-ND	1.93	14.76
	10	6410CA-ND	3.08	23.58
	15	6415CA-ND	4.23	32.40
4	10	6510CA-ND	3.08	23.58
	20	6520CA-ND	5.17	39.60
5	8	6808CA-ND	2.51	19.26
	16	6816CA-ND	4.11	31.50
6	8	6908CA-ND	2.51	19.26
	16	6916CA-ND	4.11	31.50
SURFBOARDS® for SOT-89				
7	3	6303CA-ND	1.48	11.34
	6	6306CA-ND	2.04	15.66
	9	6309CA-ND	2.63	20.16

Master Assortment Kit for Discretes: The MK-6000 assortment contains 2 each of all 23 models in the 6000 series of SURFBOARDS® for discrete components.
MK-6000CA-ND **$99.00**

9000 Series for ICs

Build • prototype circuits • Evaluate ICs easily • Build circuit upgrades • Adapt SMD to thru-hole

Fig.	Digi-Key Part No.	Pricing 1	10
8 Pin SOIC			
1	9081CA-ND	1.60	12.24
2	9082CA-ND	4.11	31.50
16 Pin SOIC			
3	9161CA-ND	2.04	15.66
4	9162CA-ND	2.16	16.56
5	9163CA-ND	6.32	48.42
6	9164CA-ND	6.53	50.04
7	9165CA-ND	6.89	52.74
20 Pin, .3" (7.62mm) WIde			
8	9210CA-ND	7.47	57.24
20 Pin PLCC			
9	9301CA-ND	7.47	57.24
10	9302CA-ND	7.47	57.24

Master Asst. Kit for ICs:
32 pcs total (5 each of 9081, 9082, 9161, 9162, and 2 each of 9163, 9164, 9165, 9210, 9301, 9302)
MK-9000CA-ND........... **$99.00**

Fig. 1 – Model 9081

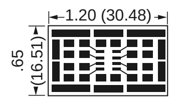

Fig. 2 – Model 9082

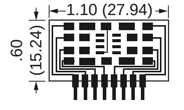

Fig. 3 – Model 9161

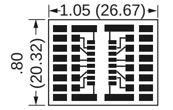

Fig. 4 – Model 9162

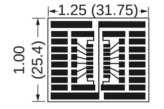

Fig. 5 – Model 9163

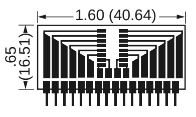

Fig. 6 – Model 9164

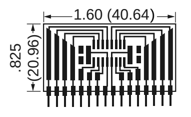

Fig. 7 – Model 9165

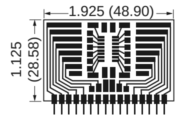

Fig. 8 – Model 9210

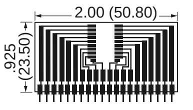

Fig. 9 – Model 9301

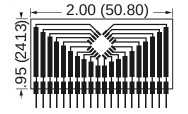

Fig. 10 – Model 9302

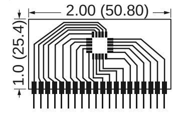

SURFBOARDS® by CAPITAL ADVANCED TECHNOLOGIES INC.™

Application-Specific Adapters

• Accept Wide Range of Surface Mount Discrete Semiconductors and ICs
• Provide Convenient Medium for Prototyping, Test, and Development

Fig. 1 – Model 33003

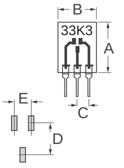

Fig. 2 – Model 33006

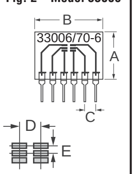

Fig. 3 – Model 33008

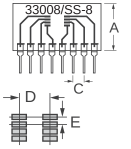

Fig. 4 – Model 33010

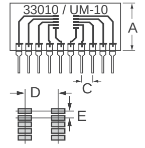

Fig. 5 – Model 33105

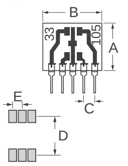

Fig. 6 – Model 33108

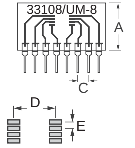

Fig. 7 – Model 33113

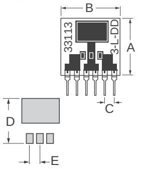

Fig. 8 – Model 33115

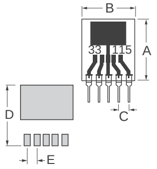

Fig. 9 – Model 33117

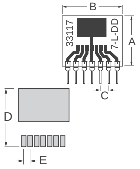

Fig. 10 – Model 33143

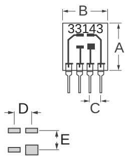

Fig. 11 – Model 33205

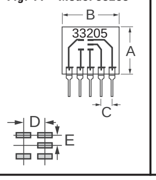

Fig. 12 – Model 33206

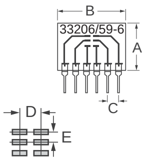

Fig. 13 – Model 33208

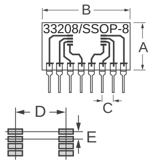

Fig. 14 – Model 33213

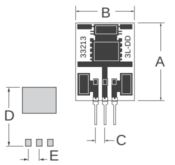

Fig. 15 – Model 33223

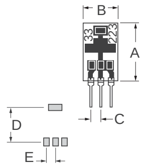

Fig. 16 – Model 33343

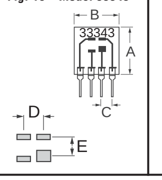

Fig. 17 – Model 33623

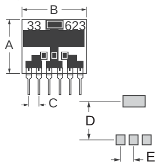

The 33000 Series of Surfboards® are application-specific adapters that convert surface mount component footprints to Single-In-Line (SIP) format. The boards feature pre-installed pins on .100" (2.54mm) centers making them compatible with conventional breadboards, solderless breadboards, and sockets. The SIP format provides ease of signal probing as well as higher densities when prototyping. Models are available to accept a wide range of surface mount semiconductors and integrated circuits.

Models 33113 and 33623 feature two SIP pins for each pad for higher current applications. Model 33213 features large soldering pads as connection points and SIP pins for measuring purposes. Boards are .031" ± .005" (.79mm ±.13mm) thick FR-4 and feature solder-coated 1-oz. Circuit Foils that can be hand-soldered or soldered by most conventional processes.

SIP pins are soldered in place on .100" (2.54mm) centers. All boards feature solder mask to limit flow of solder to pad area and aid assembly. Just add parts and plug in.

Fig.	Dimensions — Inch (mm) A	B	C	D	E	SIP Pins	Accepts These Devices	Digi-Key Part No.	Pricing 1	10
1	.400 (10.16)	.300 (7.62)	.100 (2.54)	.080 (2.03)	.0512 (1.30)	3	SC-70-3, SOT-323, *NEC* Pkg-30	33003CA-ND	1.01	7.74
2	.400 (10.16)	.600 (15.24)	.100 (2.54)	.090 (2.28)	.0256 (.650)	6	SC-70-6, SOT-363	33006CA-ND	2.07	15.84
3	.400 (10.16)	.800 (20.32)	.100 (2.54)	.180 (4.57)	.0375 (.9530)	8	SuperSOT-8™ *(Fairchild)*	33008CA-ND	2.80	21.42
4	.400 (10.16)	1.0 (25.4)	.100 (2.54)	.200 (5.08)	.0197 (.500)	10	Micromax-10 *(Maxim)*	33010CA-ND	3.22	24.66
5	.400 (10.16)	.500 (12.7)	.100 (2.54)	.165 (4.19)	.060 (1.50)	5	SOT-89-5	33105CA-ND	1.81	13.86
6	.400 (10.16)	.800 (20.32)	.100 (2.54)	.200 (5.08)	.0256 (.650)	8	MSOP-8, TSSOP-8, Micromax-8 *(Maxim)*, Micro-8 *(Int'l Rect.)*, Mini SO-8 *(Burr-Brown)*	33108CA-ND	2.80	21.42
7	.800 (20.32)	.600 (15.24)	.100 (2.54)	.625 (15.87)	.100 (2.54)	6	TO-263AB, 3-Lead D-Pkg	33113CA-ND•	2.84	21.78
8	.800 (20.32)	.500 (12.70)	.100 (2.54)	.625 (15.87)	.067 (1.70)	5	5-Lead DD Pkg., Surface Mount Device	33115CA-ND	2.37	18.18
9	.800 (20.32)	.700 (17.78)	.100 (2.54)	.625 (15.87)	.050 (1.27)	7	7-Lead DD Pkg., Surface Mount Device	33117CA-ND	3.22	24.66
10	.400 (10.16)	.400 (10.16)	.100 (2.54)	.100 (2.54)	.078 (1.99)	4	SOT-143, Surface Mount Device	33143CA-ND	1.53	11.70
11	.400 (10.16)	.500 (12.7)	.100 (2.54)	.110 (2.79)	.0375 (.953)	5	SOT-23-5, SC59-5, *Burr-Brown* Pkg. 331, Tinylogic™ *(Fairchild)*, Microgate *(Texas Inst.)*	33205CA-ND	1.86	14.22
12	.400 (10.16)	.600 (15.24)	.100 (2.54)	.110 (2.79)	.0375 (.953)	6	SOT-23-6, SOT-23-L, SC59-6, TSOP-6‡, SuperSot-6™ *(Fairchild)*, Micro-6™ *(Int'l Rect.)*	33206CA-ND	2.07	15.84
13	.400 (10.16)	.800 (20.32)	.100 (2.54)	.300 (7.62)	.025 (.650)	8	SSOP-8	33208CA-ND	2.80	21.42
14	1.125 (28.57)	.850 (21.59)	.100 (2.54)	.625 (15.87)	.100 (2.54)	3	TO-263AB, 3-Lead D-Pkg.	33213CA-ND•	3.45	26.46
15	.500 (12.70)	.300 (7.62)	.100 (2.54)	.275 (6.98)	.090 (2.28)	3	SOT-223, Surface Mount Device	33223CA-ND	1.27	9.72
16	.400 (10.16)	.400 (10.16)	.100 (2.54)	.080 (2.03)	.051 (1.3)	4	SOT-343	33343CA-ND	1.53	11.70
17	.500 (12.70)	.600 (15.24)	.100 (2.54)	.275 (6.98)	.090 (2.28)	6	SOT-223	33623CA-ND•	2.30	17.64

• Higher Current Applications ‡ Not exact device/pad match

OK Industries
Division of Jonard Industries Corp.

Wire Cut and Strip Tools

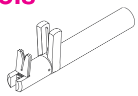

Easy and clean stripping of wires for wire wrapping, electronic and appliance applications. Strip length easily adjustable for your application. The hardened steel cutting blades and sturdy construction of the tool ensure long life. Biomechanically designed for maximum efficiency. **Easy to operate:** Place wire (up to 4) in stripping slot with ends extending beyond cutter blades, press tool and pull, wire is cut and stripped to proper "wire stripping" length.

Wire Size		Adjustable Strip-Off Length		Digi-Key Part No.	Price Each
AWG	mm	Inches	mm		
26	0.40	15/16 to 111/16	33.33 ~ 42.86	K501-ND	50.81
30	0.25	7/8 to 11/8	22.22 ~ 28.57	K502-ND	50.81
22-26	.64-.40	—	—	K512-ND	52.50

Wire Wrap Gun and Bits

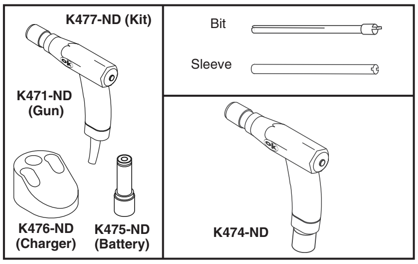

The PTX Series Wire Wrapping Tools for OK Industries bring revolutionary new benefits to installers, telcom technicians and other users. With worker safety in mind, OK Industries created an ergonomic tool which includes a lightweight, well-balanced construction, dual finger short throw trigger, and a long handle to mitigate pressure on the palm. These features help to prevent repetitive stresses and result in an industry leading design from a comfort and safety standpoint. Choose either 115V powered wire wrap/unwrap gun or the portable battery powered wrap/unwrap tool. PTX wire wrapping kit includes the ergonomic battery wrap/unwrap tool, battery charger and 2 batteries for continuous wire wrapping jobs.

RoHS Exempt

Description	Digi-Key Part No.	Price Each
Tools / Guns		
Wire Wrap/Unwrap Gun 115V	K471-ND	255.21
Wire Wrap/Unwrap Gun w/ Backforce 115V	K472-ND	263.90
Cordura Tool Pouch for Battery Powered Tool	K473-ND	54.77
Battery Powered Wrap/Unwrap Gun	K474-ND	211.73
Kit		
Complete PTX Wire Wrap Kit, Gun, Charger, 2 Batteries	K477-ND	346.95
Replacement Battery / Charger		
Replacement Battery for PTX Wire Wrap Gun	K475-ND	48.86
Battery Charger for PTX Wire Wrap Gun	K476-ND	84.01
Sleeves and Bits		
Sleeve, 22AWG Insulated	K479-ND	28.86
Sleeve, 24-26AWG Insulated	K480-ND	28.86
Sleeve, 26AWG WW Gun, .046" Max. Insul.	K481-ND	48.68
Bit, 26AWG for .025" sq. Post	K483-ND	54.78
Bit, 28AWG for .025" sq. Post	K321-ND	54.79
Sleeve for 26AWG Bit	K324-ND	40.17
Bit, 26AWG for .025" sq. Post, .031" Max. Insul.	K323-ND	54.79
Sleeve for 28 and 30AWG Bit	K322-ND	40.16
Bit, 30-32AWG for .025" sq. Post	K485-ND	54.79
Bit, 30AWG for .025" sq. Post	K320-ND	60.86
Bit/Sleeve Set for 22-24AWG	K510-ND	119.58
Power Unwrap Bit / Sleeve		
Power Unwrap Bit/Sleeve for 20-26AWG	K384-ND	66.94
KYNAR Wire Wrap Wire		
24AWG, Blue, 100' (30.48m)	K515-ND	19.10
24AWG, Black, 100' (30.48m)	K516-ND	19.10
24AWG, Red, 100' (30.48m)	K517-ND	19.10
24AWG, Yellow, 100' (30.48m)	K518-ND	19.10
24AWG, White, 100' (30.48m)	K519-ND	19.10
26AWG, Blue, 100' (30.48m)	K327-ND	14.42
26AWG, Black, 100' (30.48m)	K386-ND	14.42
26AWG, Red, 100' (30.48m)	K387-ND	14.42
26AWG, Yellow, 100' (30.48m)	K388-ND	14.42
26AWG, White, 100' (30.48m)	K389-ND	14.42
28AWG, Blue, 100' (30.48m)	K326-ND	12.50
28AWG, Black, 100' (30.48m)	K390-ND	12.50
28AWG, Red, 100' (30.48m)	K391-ND	12.50
28AWG, Yellow, 100' (30.48m)	K392-ND	12.50
28AWG, White, 100' (30.48m)	K393-ND	12.50
30AWG, Blue, 100' (30.48m)	K325-ND	11.17
30AWG, Black, 100' (30.48m)	K394-ND	11.17
30AWG, Red, 100' (30.48m)	K395-ND	11.17
30AWG, Yellow, 100' (30.48m)	K396-ND	11.17
30AWG, White, 100' (30.48m)	K397-ND	11.17
Low Strip Force KYNAR Wire Wrap Wire		
30AWG, Blue, 100' (30.48m)	K329-ND	21.25
30AWG, White, 100' (30.48m)	K443-ND	21.25
30AWG, Red, 100' (30.48m)	K444-ND	21.25
30AWG, Black, 100' (30.48m)	K445-ND	21.25
30AWG, Yellow, 100' (30.48)	K520-ND	21.25

Alignment Tool Kit

This 5 piece pocket kit contains a selection of the most popular non-conductive tools for aligning and adjusting components. **Kit contains:** Trimpot, Alignment 2 in 1 Tool, Spudger, Orange Stick, Probe Pick.

Description	Digi-Key Part No.	Price Each
Alignment Tool	K513-ND	7.00

Manual Wire Wrap Tools

Description	Digi-Key Part No.	Price Each
Manual Wrap Tool Lexan for use w/ bits and sleeves above	K398-ND	121.40
Manual Wrap Tool Aluminum for use w/ bits and sleeves above	K399-ND	146.25
Manual Wrap Tool Insulated Version	K478-ND	154.58

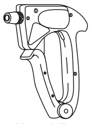

K398-ND
K399-ND

Hobby Wrap Hand Tools

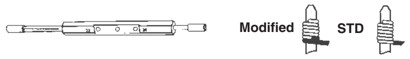

Wire-wrapping, stripping and unwrapping tool. For 30AWG on .025" (0.63mm) and 22-24AWG on .030" (0.76mm) and .045" (1.14mm) Square Post.

K104-ND	Regular Wrap (30AWG)	**$34.33**
K105-ND	Modified Wrap (30AWG)	**$34.35**
K107-ND	Regular Wrap (22-24AWG)	**$43.62**

Precision Hand Wrapping and Unwrapping Tools

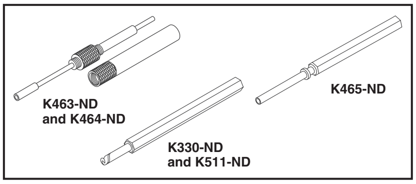

K463-ND	Combination Hand Wrap-Unwrap Tool (30AWG)	**$101.91**
K464-ND	Combination Hand Wrap-Unwrap Tool (22-24AWG)	**$88.53**
K465-ND	Hand Unwrap Tool (20-26AWG)	**$39.12**
K330-ND	Universal Wire Unwrap Hand Tool (24-32AWG)	**$30.42**
K511-ND	Unwrap Hand Tool (20-26AWG)	**$28.23**

Single Wire Dispenser

- With 50 ft. (15.24 meter) roll of AWG 30 KYNAR wire-wrapping wire
- Built-in Plunger cuts wire to desired length
- Built-In Stripper strips 1" (2.54cm) of insulation
- Refillable (for refills, see below)

Description	Digi-Key Part No.	Price Each
Blue Wire	K223-ND	18.75
Yellow Wire	K224-ND	18.75
White Wire	K225-ND	18.75
Red Wire	K226-ND	18.75
Dispenser Replacement Rolls		
30AWG Blue 50 Ft. (15.24 meter) Roll	K229-ND	9.14
30AWG Yellow 50 Ft. (15.24 meter) Roll	K230-ND	9.14
30AWG White 50 Ft. (15.24 meter) Roll	K231-ND	9.12
30AWG Red 50 Ft. (15.24 meter) Roll	K232-ND	9.12

Wire Wrap Wire

30AWG, Pre-Cut/Pre-Stripped — 50 Wires/Package

1˝ (2.54cm)
Stripped Ends

Description	Digi-Key Part No.	Price Each
Blue Wire, 3˝ (7.62cm) Overall Length	B3-ND	7.91
Yellow Wire, 3˝ (7.62cm) Overall Length	Y3-ND	7.91
White Wire, 3˝ (7.62cm) Overall Length	W3-ND	7.91
Red Wire, 3˝ (7.62cm) Overall Length	R3-ND	7.91
Blue Wire, 4˝ (10.16cm) Overall Length	B4-ND	7.91
Yellow Wire, 4˝ (10.16cm) Overall Length	Y4-ND	7.91
Red Wire, 4" (10.16cm) Overall Length	R4-ND	7.91
White Wire, 4" (10.16cm) Overall Length	W4-ND	7.91
Blue Wire, 5˝ (12.70cm) Overall Length	B5-ND	9.12
Yellow Wire, 5˝ (12.70cm) Overall Length	Y5-ND	9.12
White Wire, 5˝ (12.70cm) Overall Length	W5-ND	9.12
Red Wire, 5˝ (12.70cm) Overall Length	R5-ND	9.12
Blue Wire, 7˝ (17.78cm) Overall Length	B7-ND	9.12
Yellow Wire, 7˝ (17.78cm) Overall Length	Y7-ND	9.12
White Wire, 7˝ (17.78cm) Overall Length	W7-ND	9.12
Red Wire, 7˝ (17.78cm) Overall Length	R7-ND	9.12

Tri-Color Dispenser

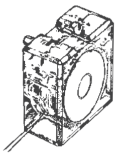

- 3 Rolls of wire in one dispenser
- 3 Colors: blue, white, red; 50 feet (15.24 meters) of each color
- AWG30 (0.25 mm) KYNAR insulated wire
- Built-in plunger cuts wire to desired length
- Built-In stripper strips 1" (25.40mm) of insulation
- Refillable (for refills, see below)

Description	Digi-Key Part No.	Price Each
Tri-Color Dispenser	K227-ND	30.83
Replacement Rolls	K228-ND	18.20

Wiss®

Utility Knife

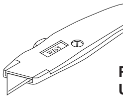

Retractable Utility Knife

Description	Digi-Key Part No.	Price Each
Retractable Utility Knife with 3 Blades	WK8V-ND	4.58

VECTOR
ELECTRONICS & TECHNOLOGY, INC

Slit-N-Wrap Tool and Wires

- No Pre-cutting or Pre-stripping
- Fast, reliable, spool fed wire
- Slits and opens insulation exposing bare wire before wire is wrapped on post, forming actual wire wrapped gas tight joint as tool is rotated.

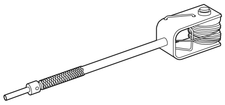

Description	Digi-Key Part No.	Price Each
Manual Slit-N-Wrap Tool (#28), Includes Bit, 50' (15.24m) Roll of Green Wire	V1081-ND	201.93
Replacement Wirewrap Bit #28	V1083-ND	65.94
Replacement Wirewrap Bit #30	V1084-ND	57.62
150' (45.72m) 28AWG Tefzel Wire Green	V1085-ND	22.37
150' (45.72m) 28AWG Tefzel Wire Red	V1086-ND	21.60
150' (45.72m) 28AWG Tefzel Wire Blue	V1087-ND	21.60
150' (45.72m) 28AWG Tefzel Wire White	V1088-ND	21.60
150' (45.72m) 28AWG Tefzel Wire Yellow	V1089-ND	21.60

BRAND 77 TOOLS™

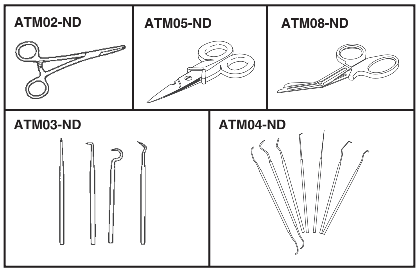

Hemoclamp/Hemostat

Professional grade hemo made of 410 A.I.S.I. stainless steel. Hand finished and polished. Hand serrated for extra gripping power. Has 3 locking positions.

ATM01-ND	5 1/2 inches	**$4.95**
ATM06-ND	8 inches	**$7.52**

Curved-Tip Hemoclamp/Hemostat

Professional grade hemo made of 410 A.I.S.I. stainless steel. Hand finished and polished. Hand serrated for extra gripping power. Has 3 locking positions.

ATM02-ND	5 1/2 inches	**$4.95**
ATM07-ND	8 inches	**$7.52**

Compact Electrician's Scissors

Stainless steel double notched blade with file on back. Notches are for stripping wire. Can be used for many telephone installation and electrical service applications. 5 1/2" overall length, cut length is 1 7/8".

ATM05-ND **$8.08**

Utility Scissors

All utility scissors are industrial strength stainless steel serrated blades, and have PVC handles. Will cut paper, wire, wood, plastic, leather etc.

ATM08-ND 7 1/2 inches **$5.97**

4-Piece Probe Set

Forged from 420 A.I.S.I. stainless steel. Set includes four probes and a plastic (vinyl) pouch.

ATM03-ND **$7.88**

7-Piece Probe Set

Hardened, tempered stainless steel. Set includes seven probes and a plastic (vinyl) pouch.

ATM04-ND **$15.70**

Panasonic®

Power Screwdriver

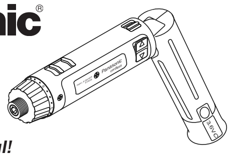

Accurate, High Speed, Powerful!

FEATURES:
• "Auto Shut-Off Clutch" extends battery and clutch life by immediately stopping rotation once torque setting is reached • 22-stage clutch offers you more precise torque setting • Clutch torque accuracy is ±5% • Maximum 600 rpm for high speed screw driving • Maximum 39 in.-lbs. torque (in low gear) even with compact size • 1/4" hex quick connect chuck • 15-minute charging system • Easily converts from straight to pistol form

TECHNICAL DATA:
• **Motor Voltage:** 3.6V DC • **Rotating Speed:** Low: 200 rpm; High: 600 rpm • **Max. Torque:** Low: 39 in.-lb.; High: 13 in. -lbs. • **Clutch Torque/Auto Shut-Off Clutch:** 21 stage/2.6 to 26 in.-lb. • **Size in Straight Position:** 11-21/32" x 1-17/32" • **Weight (includes battery):** 1.15 lbs. • **Battery Capacity:** 1.2Ah • **Charging Time:** 15 minutes • **Working Capacity:** Screw (Ø5/32 x 3/8): 600 screws

INCLUDES: Battery Pack, Battery Charger, #1 Phillips Bit, #2 Phillips Bit

P10861-ND	Screwdriver (EY6225CQ)	**$159.00**
P10862-ND	Extra Battery Pack (EY9025B)	**$39.00**

Crescent®

Reversible Ratcheting Combination Wrenches

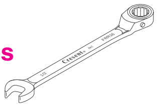

• Mirror finished chrome vanadium steel construction • Narrow cross-section design on box and open ends allows access to tighter work spaces • Reverses at the push of a button • Ratcheting end is offset 15° • Rachet feature turns fasteners with just a 5° swing

Description	Digi-Key Part No.	Price Each	Crescent Part No.
4 Pc. SAE (3/8", 7/16", 1/2", 9/16")	FRR4-ND	48.50	FRR4
7 Pc. SAE (5/16", 3/8", 7/16",1/2", 9/16", 5/8", 3/4")	FRR7-ND	92.66	FRR7
4 Pc. Metric (10, 12, 13 and 15mm)	FRRM4-ND	48.50	FRRM4
7 Pc. Metric (8, 10, 12, 13, 14, 15 and 18mm)	FRRM7-ND	92.66	FRRM7

Pliers, Wrenches

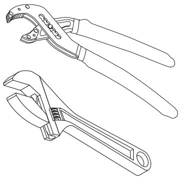

DURA-PLYERS™

- Laminated and riveted "ply" construction
- Box-joint design
- Textured air-cushioned grips
- Multiple positions

Wrenches

• Adjustable • Chrome finish

Description	Digi-Key Part No.	Price Each	Crescent Part No.
8" Dura-Plyers™	LB8-ND	8.66	LB8
10" Dura-Plyers™	LB10-ND	9.74	LB10
6" Crescent Wrench	AC16V-ND	20.81	AC16V
8" Crescent Wrench	AC18V-ND	21.24	AC18V
10" Crescent Wrench	AC110V-ND	27.06	AC110V

Ratcheting Screwdriver Set

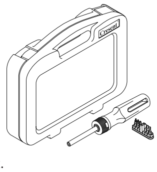

SDMBRV-ND Includes: • **6 Screwdriver Bits:** #1 Phillips®, #2 Phillips®, 3/16" Slotted, 1/4" Slotted, #1 Square Recess, #2 Square Recess
SDMBR2-ND Includes: • **7 Fractional Power Nutdrivers:** 3/16", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16" • **7 Metric Power Nutdrivers:** 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm • **18 Screwdriver Bits:** #1, #2, #3. Phillips®, 1/4", 5/32", 3/16" • **Slotted:** #1, #2, #3 Square Recess • **Stainless Steel Bit Holder w/ 1/4" Hex Drive:** TX6, TX8, TX10, TX15, TX20, TX25 • **Torx®:** 1/4", 5/32", 3/16" Hex.

Description	Digi-Key Part No.	Price Each	Crescent Part No.
7 Pc.	SDMBRV-ND	13.96	SDMBRV
34 Pc.	SDMBR2-ND	31.76	SDMBR2

4 Piece Screwdriver Set

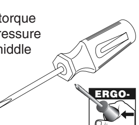

ERGO-HANDLE

• No-slip grip handle stops slippage for higher torque • Extra long, rounded tri-oval shape reduces pressure points to improve comfort • Enlarged handle middle optimizes grip strength and turning efficiency to reduce fatigue • Plated tool steel shafts specially hardened for strength and durability: Includes: #1 and #2 Phillips, 1/4" x 4" Slotted, 3/16" x 3" Slotted

SDD4-ND **$10.98**

Xcelite®

Cordless Rechargeable Screwdriver Kit

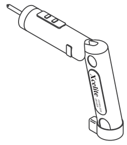

Kit contains: • Driver • Battery • Charger • 99PA adapter • 1 slotted, 2 Phillips bits
Features: • 3.6V power • 2 speeds • 1 hour full recharge • 8 stage torque adjustable • Easily converts from in-line to pistol form • Replaceable battery pack • 99PA adapter enables use with all Xcelite Series 99 blades

XP1-ND	**$114.02**
XP1B-ND Replacement Battery	**$26.19**

4-in-1 Screwdriver

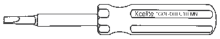

• 4 Bits in one compact tool • Changes in seconds: pull out, reverse, snap back • 2 Phillips bits and 2 slotted bits are always ready • Alloy steel, heat treated for maximum strength, precision ground and polished • Large, 6-spline, easy-to-grip red Tenite handle

FSD-1V-ND **$10.22**

Screwdrivers

• **5 Piece Phillips Set Includes:** Point #0, 1, 2, 3 and Short #2, Packed in Pouch • **5 Piece Slotted Set Includes:** 1/8", 5/32", 3/16", 1/4" and 5/16" Packed in Pouch • **6 Piece Set Includes:** 4 Round Blade for Slotted Screws & 2 Phillips Types, Slotted: 1/8", 3/16", 1/4" and 5/16", Phillips: 1 & 2 Pt. Size, Packed In Pouch • **7 Piece PRO-SERIES Ergonomic Set Includes:** 5 Slotted Screws & 2 Phillips Types, Slotted: 1/8", 5/32", 3/16", 1/4" and 5/16" Phillips: 1 & 2 Pt. Size, Packed In Box

Description	Digi-Key Part No.	Price Each	Xcelite Part No.
5 Pc. Phillips Screwdriver Set	SDX-22-ND	24.51	SDX-22
5 Pc. Slotted Screwdriver Set	SDR-11-ND	22.53	SDR-11
6 Pc. Screwdriver Set	SRX-33-ND	30.56	SRX-33
7 Pc. PRO-SERIES Ergonomic Set	XPE700-ND	34.71	XPE700

99-XTD7 Torx® Screwdriver Blade Kit

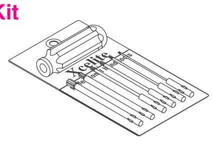

- Interchangeable blades
- Contains 6 blades (#10, 15, 20, 25, 27, 30), 4" (102.00mm) long and regular 99-1 handle
- 4" (102.00mm) approximate working length

99-XTD7-ND **$28.88**

Screwdriver and Nutdriver Sets - Inch Sizes

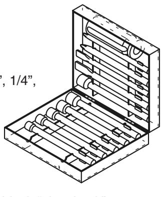

See-through stand-up plastic cases.

99PS-50 Regular Nutdrivers: 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"
Slotted Screwdriver: 3/16", 1/4"
Phillips Screwdriver: No. 1, No. 2
Extension
Regular Handle

PS-120 Color-coded handles. Comes with black "piggyback" torque amplifier handle **Regular Nutdrivers:** 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8"

Description	Digi-Key Part No.	Price Each	Xcelite Part No.
13 Pc. Screwdriver and Nutdriver Set	99PS50-ND	52.41	99PS-50
11 Pc. Nutdriver Set	PS120-ND	33.66	PS120

Precision Electronic Screwdriver Set

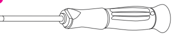

• Chrome-molybdenum vanadium steel blades • Fast-turning swivel caps with cavity for precise centering • Precision tolerance black tips • No-roll handle design

XP600-ND Includes: 1.5mm x 60mm Slotted Screwdriver, 2.0mm x 60mm Slotted Screwdriver, 2.5mm x 60mm Slotted Screwdriver, 3.0mm x 60mm Slotted Screwdriver, #00 Point Size Phillips Screwdriver, #0 Point Size Phillips Screwdriver

XPTX600-ND Includes: #5pt. Standard Torx Screwdriver, #6pt. Standard Torx Screwdriver, #7pt. Tamper-proof Torx Screwdriver, #8pt. Tamper-proof Torx Screwdriver, #10pt. Tamper-proof Torx Screwdriver, #15pt. Tamper-proof Torx Screwdriver

Description	Digi-Key Part No.	Price Each	Xcelite Part No.
6 Pc. Screwdriver Set	XP600-ND	22.20	XP600
6 Pc. Torx Screwdriver Set	XPTX600-ND	26.10	XPTX600

Xcelite®

Micro Series Shearcutters

General Purpose

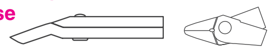

• Low profile • Superior blade by-pass shear cutting action • Better cuts with half the effort • Greatly reduced mechanical shock delivered to the work • 170M, 175M feature red grips • 170D, 175D feature static-dissipative black grips • 175M, 175D feature safety clips • 170D, 175D especially hardened and plated

170M-ND	**$5.33**
170DCI-ND	**$5.90**
175M-ND	**$6.53**
175DCI-ND	**$7.17**

Heavy Duty

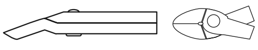

• Heavy-duty for IC pins, cables and harnesses • Maximum durability • Maximum operator safety • 1178M features red grips • 1178D features static-dissipative black grips • 1178D especially hardened and plated

1178M-ND	**$9.60**
1178D-ND	**$11.57**

Xcelite®

Electronic Pliers

All pliers are furnished with coil spring and ESD safe cushioned grip handles.

• Each plier is manufactured from extreme toughness and rigidity • Cutting edges are electronically hardened • Machining is to close tolerances, with individual finishing and testing for exact fit of jaws • All have polished heads with gun metal handles

Full Flushed Relieved Tapered Cutter

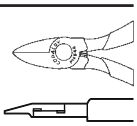

• Diagonal flush cutter • Ground down on back side for reaching into confined places • Size: 4" (102.00mm)

MS543J-ND **$15.71**

Semi-Flush Diagonal Cutter

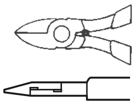

• Diagonal cutter with flush ground cutting edges • Size: 4" (102.00mm)

MS54-ND **$13.80**

Angled Flush Cutter

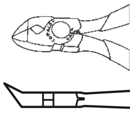

• Cutting blade is flush ground and angled at 29° • Cutting plier is designed to give long wear for cutting soft wire • Size: 4" (102.00mm)

GA54J-ND **$24.69**

Long Nose Pliers

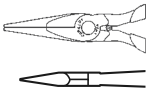

• Miniature very fine point for delicate work in very confined areas • Has scored jaws • Size: 4" (102.00mm)

L4-ND **$13.76**

Curved Long Nose Pliers

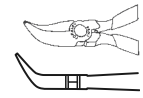

• For reaching into confined places • Nose bent approximately 60° • Smooth jaws • Size: 5" (127.00mm)

CN54G-ND **$16.97**

Long Nose Pliers

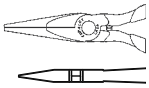

• Has finely scored jaws • Size: 5" (127.00mm)

LN54CI-ND **$15.11**

Needle Nose Pliers

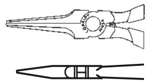

• Has scoring on jaws • Size: 5" (127.00mm)

NN542-ND **$17.90**

Duck Bill Pliers

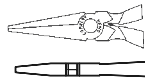

• Flat nose duck bill pliers with smooth jaws • Size: 5" (127.00mm)

DN54G-ND **$13.80**

Long Nose Side Cutter

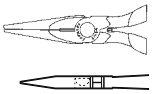

• Similar to long nose pliers but with 7/32" (5.56mm) cutter near joint • Size: 5" (127.00mm)

SN54-ND **$16.97**

Reverse Action Tweezers

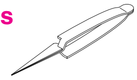

XHT412 4 1/2" (115mm) • Self closing, smooth, sharp points for holding work

XHT412-ND **$5.21**

Swanstrom Tools USA

Cutters and Pliers

Standard or Ergonomic Handles

Fig. 1

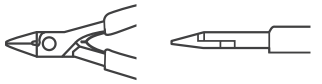

Fig. 2

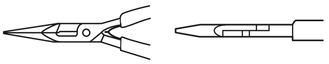

Fig. 3

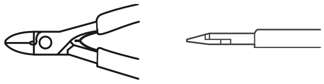

Fig. 4

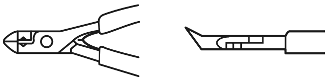

Fig. 5

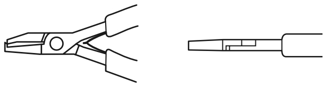

Spartan Standard:

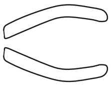

• High carbon, alloy forged American steel—for long tool life. • Alloy steel rivets—for smooth action. • Machined and lapped joints. • Polished finish—for cleanliness and rust prevention. • Double stainless steel leaf spring. • Soft touch static dissipative foam grips—to minimize ESD & CTS.

Fig.	Description	Digi-Key Part No.	Price Each	Mfg. Part No.
	Cutter Tapered			
1	Flush Standard. Size: 4” (101.60mm) Flush Standard. Size: 5” (127.00mm)	232-1010-ND 232-1016-ND	25.00 27.00	415 515
	Long Nose Serrated Shear Cut			
2	Standard. Size: 6” (152.40mm)	232-1012-ND	30.00	351
	Long Slim Nose Smooth Jaw			
2	Standard. Size: 5” (127.00mm)	232-1017-ND	22.00	324
	Long Slim Nose Serrated Jaw			
2	Standard. Size: 5” (127.00mm) Standard. HD. Size: 6” (152.40mm)	232-1013-ND 232-1019-ND	22.00 24.00	325 631
	Cutter Oval			
3	Flush Standard. Size: 4” (101.60mm) Flush Standard. Size: 5” (127.00mm) Flush Standard. Size: 6” (152.40mm)	232-1009-ND 232-1015-ND 232-1018-ND	25.00 27.00 28.00	411 511 611
	Angle End Nipper			
4	Standard. Size: 4” (101.60mm) Flush	232-1011-ND	35.00	491

Super Ergonomic:

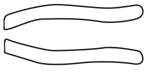

• Swedish American high chromium, alloy forged steel—for maximum tool life. • Electronic induction hardening—for maximum cutter life. • Hard alloy self-lubricating bearings—for perfect jaw alignment. • Precision machined and lapped joints. • Double stainless steel leaf springs. • Soft touch static dissipative foam grips—to minimize ESD and CTS.

Fig.	Description	Digi-Key Part No.	Price Each	Mfg. Part No.
	Cutter Tapered			
1	Flush Ergonomic Size: 4” (101.60mm) Flush Ergonomic Size: 5” (127.00mm)	232-1001-ND 232-1007-ND	54.00 54.00	S415E S515E
	Long Slim Nose Serrated Jaw			
2	Micro. Needle Nose. Size: 4” (101.60mm) Ergonomic Size: 5” (127.00mm)	232-1021-ND 232-1008-ND	26.00 32.00	S109 S325E
	Cutter Oval			
3	Flush Ergonomic Size: 4” (101.60mm) Flush Ergonomic Size: 5” (127.00mm)	232-1000-ND 232-1006-ND	54.00 54.00	S411E S511E
	Angle End Nipper			
4	Flush Ergonomic Size: 4” (101.60mm)	232-1002-ND	60.00	S491E
	Crimp and Bend Cutter			
5	Anti-Shock Shear Cut. .040” (1.02mm)	232-1022-ND	55.00	S205B.040

EREM® Tweezers

Straight Tapered Tip Tweezers

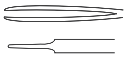

EROP 4.5” (114.30mm). Straight, round, tapered tip tweezers. Provide larger, flat gripping surface for handling a variety of small components.

EROP2ASA-ND $2.88

Straight Precision Tip Tweezers

EROP 4.25” (107.95mm). Straight Point Tweezers. For general use.

EROP3CSA-ND $2.88

Curved Precision Tip Tweezers

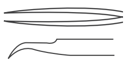

EROP 4.5” (114.30mm). Curved precision tip tweezers improve visibility when used under magnification.

EROP7SA-ND $2.88

Straight Fine Tip Tweezers

EROP 5” (127.00mm). General use straight point tweezers with hardened tips.

EROPAASA-ND $2.88

Angled Cutting Tip Tweezers

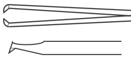

EREM 4.5” (114.30mm). Angled cutting tweezers. Tempered carbon steel, hard but low rust resistance.

15AGS-ND $25.68

Straight Soft Carbon Tip Tweezers

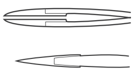

EREM 5” (127.00mm). 304/305 stainless steel. Soft carbon tipped handling tweezers. Soft tips minimize scratching or nicking of fragile wires and parts. Temp. range is 250°F ~ 300°F (121°C ~ 149°C). Nonmagnetic and non-corrosive. Resistant to hydrochloric and nitric acids.

249SA-ND............................ $25.85

Diagonal Cutters

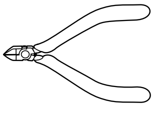

N Series - Magic Springs:

• Superior to Leaf Springs • Invisible, internal EREM-Magic springs provide uniform, constant tension and ultimate performance • Linear closing and opening force • High Precision Inter-Lock Screw Joint System: Surfaces between the two halves are machine faced to provide smooth, wobble-free operation with no blade overlap

Description	Digi-Key Part No.	Price Each	EREM Part No.
“N” Series			
4” (101.6mm), Oval, Semi-Flush	612N-ND	46.70	612N
4” (101.6mm), Oval, Full-Flush	622N-ND	48.41	622N
4.75” (120.7mm), Large Oval, Semi-Flush	812N-ND	55.20	812N
4.75” (120.7mm), Large Oval, Full-Flush	822N-ND	55.20	822N
5” (127.0mm), Oval, Semi-Flush	512N-ND	49.37	512N
5” (127.0mm), Oval, Full-Flush	522N-ND	51.57	522N

PanaVise®

Fig. 1 – 502 Precision PanaPress

A 501 Standard Pana-Press with four nylon gibs for precision directional control of the vertical ram.

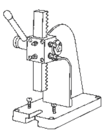

Fig. 2 – 506 Retrofit Kit

Converts a 502 Precision PanaPress into the 505 IDC Bench Assembly Press. The kit includes the assembly base, standard platen, modified ram, guide arm, and an allen wrench.

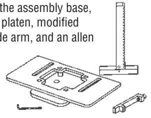

Fig. 3

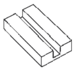

Fig. 4

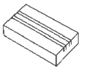

Fig. 5

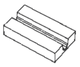

Fig. 6

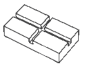

Fig.	Description	Digi-Key Part No.	Price Each
1	Hand Press Bench Mount	502PV-ND	119.99
2	Hand Press IDC Conversion Kit	506PV-ND	59.99
3	Standard IDC Card Edge Connector Base Plate	511PV-ND	29.99
4	Standard IDC Dip Plugs Base Plate	512PV-ND	29.99
5	Standard IDC D-Sub Connector Base Plate	513PV-ND*	29.99
6	Standard Female IDC Socket Base Plate	510PV-ND	29.99

* Do not use with CW Industries all plastic D-sub connectors.

PanaVise®

Fig. 1

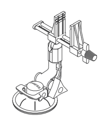

Fig. 2

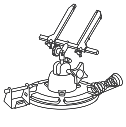

Fig. 3

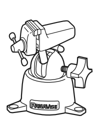

Fig. 4

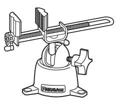

Fig. 5

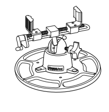

Fig. 6

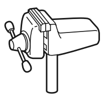

Fig. 7

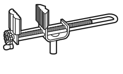

Fig. 8

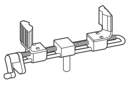

Fig. 9

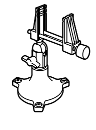

Fig. 10

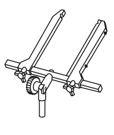

Fig. 11

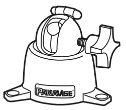

Fig. 12

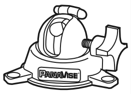

Fig. 13

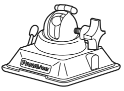

Fig. 14

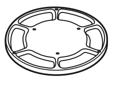

Fig. 15

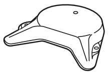

Fig. 16

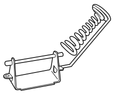

Fig. 17

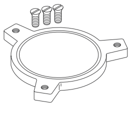

Fig. 18

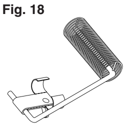

Must be used with Fig. 7 or Fig. 8 (sold separately).

Fig.	Description	Digi-Key Part No.	Price Each
1	Portable Vacuum Base Precision Vise	209PV-ND	32.99
2	Deluxe Electronic Work Center - Solder wire and soldering station not included	324PV-ND	81.99
3	Standard Station (303 head/300 base)	301PV-ND	44.99
4	Wide Opening Station (366 head/300 base)	396PV-ND	53.99
5	Wide Opening-Self Centering Work Station (376 head/300 base/312 tray base mount)	350PV-ND	83.99
6	Standard Head - 2 1/2” (63.50mm) wide,) opens to 2 1/4” (57.15mm)	303PV-ND	24.99
7	Wide Opening Head - 1 3/4” (44.45mm) wide, opens to 6” (152.40mm)	366PV-ND	33.99
8	Wide Opening-Self Centering Head - 1 3/4” (44.45mm) wide, opens to 9” (228.6mm)	376PV-ND	45.99
9	Junior Universal Vise	201PV-ND	23.99
10	Circuit-Board Holder - 6” (152.40mm) arms, extends to 12” (304.80mm) wide	315PV-ND	32.99
11	Standard Base 3 3/4” (95.25mm) high	300PV-ND	20.99
12	Low-Profile Base - Only 2 1/2” (63.50mm) high	305PV-ND	20.99
13	Vacuum Base	380PV-ND	33.99
14	Tray Base Mount - 8 1/2” (215.90mm) diameter, base mount only	312PV-ND	19.99
15	Weighted Base Mount	308PV-ND	29.99
16	Solder Station - Solder iron holder, wire holder & 2 slit sponges, can be used for left or right hand use	371PV-ND	11.99
17	Magnetic Base - Adapts to 201, 300 & 305 bases	335PV-ND	18.99
18	Universal Wire Holder for 366 and 376 jaws	358PV-ND	21.99

Quality Tools

ESD Cutters and Safe Pliers

• Two component handle with non-slip soft grip surface, protects the hand and reduces manual effort and user fatigue • Box joint for longer tool life and endurance, mirror polished finish • Welded double leaf spring • Hardened and annealed high-carbon tool steel, induction hardened cutting edges

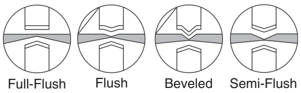

Side Cutters

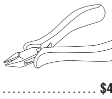

Small Tapered Head
with Hollow Ground Back,
Flush, 115mm
431-1041-ND (32704) **$42.62**
Small Tapered Head, Flush, 115mm
431-1039-ND (32705) **$41.58**
Slim Oval Head, Flush, 115mm
431-1044-ND (32712) **$41.58**
Slim Oval Head, Flush, 115mm
431-1035-ND (32714) **$46.26**
Wide Oval Head with Wire Trapping, Flush, 115mm
431-1038-ND (32721) **$42.62**

Oblique Cutters

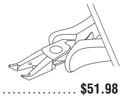

Angled,
29°, Full Flush, 115mm
431-1030-ND (32724) **$51.98**
Front, Very Small Head, 40°, Flush, 110mm
431-1045-ND (32728) **$45.74**

End Cutters

Wide Head

Extra Slim,
Flush, 110mm
431-1040-ND (32732) **$46.78**
Wide Head, Flush, 115mm
431-1043-ND (32734) **$46.78**

Pliers

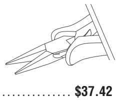

Short Snipe Nose (Chain Nose)
Straight, Serrated Jaws,
120mm
431-1031-ND (32742) **$37.42**

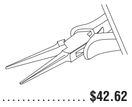

Long Needle Nose,
Straight,
Serrated Jaws,
145mm
431-1042-ND (32746) **$42.62**

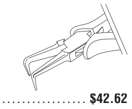

Needle Nose,
Bent 90°,
Smooth Jaws,
145mm
431-1032-ND (32748) **$42.62**

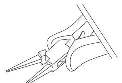

Short Round Nose,
Smooth Jaws,
120mm
431-1033-ND (32750) **$37.42**

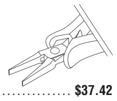

Short Flat Nose,
Smooth Jaws,
120mm
431-1034-ND (32752) **$37.42**

Cable Cutter

Soft Vinyl Grip, Lay-On Joint,
Sickle Jaw,
170mm
431-1046-ND (32641) **$37.98**

Diagonal Cutter

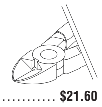

Soft Vinyl Grip, Lap Joint,
140mm
431-1052-ND (32638) **$21.60**

ESD Safe Tweezers

Conductive ESD coating is hypo-allergenic. Resistance is 10^4 to $10^6\Omega$. All tweezers are made from premium stainless steel and are anti-magnetic and acid resistant.

Style AA SA IND

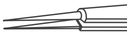

130mm long.
Universal fine point tweezers with non-glare finish.
431-1020-ND (44501) **$14.24**

Style SS SA IND

135mm long.
Long narrow body, low force with non-glare finish.
431-1021-ND (44503) **$18.18**

Style 3 SA IND

120mm long. Fine tip, round
body assembly style with non-glare finish.
431-1022-ND (44506) **$18.18**

Style 7a SA IND

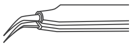

120mm long.
Curved with extra fine
round tip and non-glare finish.
431-1023-ND (44510) **$23.46**

Style 22 SA IND

150mm long. Narrow rounded
tip and guide pin, serrated and non-glare finish.
431-1024-ND (44518) **$18.84**

Style PSF SA IND

125mm long.
Long rounded to 1mm blunt tip, non-glare finish.
431-1025-ND (44523) **$17.46**

Style 7abb SA IND

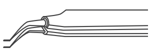

120mm long.
Curved, extra fine with
3mm extended tip, non-glare finish.
431-1026-ND (44525) **$28.10**

Style 8b SA IND

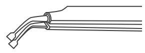

120mm long.
Micro tip 30° bend, 0.5mm
slot, 1mm flat, non-glare finish.
431-1027-ND (44529) **$24.88**

Style 1 SA IND

120mm long.
General purpose fine point with non-glare finish.
431-1028-ND (44531) **$18.74**

Style 00 SA IND

120mm long.
Universal fine point tweezers with non-glare finish.
431-1029-ND (44532) **$23.80**

ESD Safe Fixed Handle Precision Screwdriver Sets

• With finger tip control cap

SLOTTED: 1.5, 2.0, 2.5, 3.5
PHILLIPS: 00, 0, 1

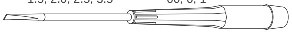

Slotted and Phillips Precision Technicians Set

Blades are CVM hardened tool steel, satin chrome finish.
431-1000-ND (27390) **$34.30**

TORX Precision Technicians Set

Blades are CVM hardened tool steel, satin chrome finish. Includes Torx sizes: T4, T5, T6, T7, T8, T9, T10.
431-1001-ND (27890) **$41.58**

ESD Safe Field Service Kit

(DRAWINGS ARE NOT TO SCALE)

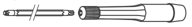

Torx: T5, T6, T7, T8, T9, T10, T15
Slotted: 2.0, 3.0, 4.0
Phillips: 00, 0, 1

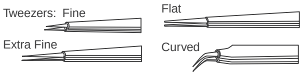

ESD Slotted, Phillips and TORX interchangeable blades with ESD safe tweezers. Packed in rugged canvas storage pouch.
431-1002-ND (44590) **$110.22**

ESD Safe Interchangeable Precision Screwdriver Sets

- Adjustable Blade Lengths – .75” to 3.75”
- Anti-Static Conductive Handle

(DRAWINGS ARE NOT TO SCALE)

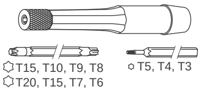

Slotted and Phillips Interchangeable Blade Precision Technicians Set

Blades; CVM hardened tool steel, satin chrome finish with molded indexed storage box. Includes: Slotted - 1.5, 2.0, 3.0, 3.5mm; Phillips: #000, #00, #0, #1.
431-1003-ND (26996) **$34.32**

Slotted, Phillips and TORX Interchangeable Blade Precision Technicians Set

Includes: Slotted - 1.5, 2.0, 2.5, 3.0, 3.5, 4.0mm; Phillips: #000, #00, #0, #1, TORX: T6, 7, 8, 9, 10, T15.
431-1004-ND (26997) **$57.50**

TORX Interchangeable Blade Precision Technicians Set

Blades CVM hardened tool steel. Storage box. Includes TORX Sizes: - T3, T4, T5, T6 + 8, T7 + 9, T10 + 15, T15 + 20.
431-1005-ND (26987) **$41.72**

ESD Safe Chip-Lifter

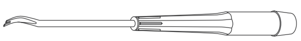

Split tip is perfect for reaching around pins and lifting chips and other components from sockets or from desoldered boards. Handle is conductive anti-static.
431-1016-ND (27920) **$6.34**

Driver Sets

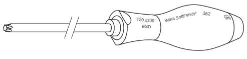

6 Piece ESD Safe Slotted and Phillips Drivers
Round blade, high alloy CVM hardened steel, chrome plated. Dissipative SoftFinish® cushy grip handle. Slotted: 3, 4, 5.5 Phillips: 0, 1, 2
431-1048-ND (30292) **$39.50**

6 Piece ESD Safe Torx® Screwdrivers
Round blade, high alloy CVM hardened steel, chrome plated. Tip Sizes: T6, T8, T9, T10, T15, T20
431-1050-ND (36289) **$37.42**

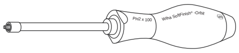

2 Piece Phillips Orbit Driver Set
Turn Phillips screws at up to 20° angle with full 360° rotation. Ergonomic handle. Patented swivel tip maintains full engagement. Hex bolster for additional torque. **Phillips:** 1, 2

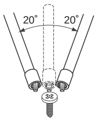

431-1049-ND (31199) **$21.82**

PHILLIPS: #00, #0, #1 SLOTTED: 1.5, 2.0, 3.0, 4.0
TORX: T6, T7, T8, T9, T10, T15
HEX (IN.): .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32

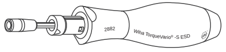

ESD Safe Adjustable TorqueVario-S Bit Set
24 piece. Ergonomic multi-component handle. Includes 21 Micro Bits, Micro Bit holder, torque adjustment tool, steel storage box. With certificate of calibration. Adjustable from 7.5 to 20 inch pounds.
431-1047-ND (28592) **$176.78**

Safety Insulated Screwdrivers

SLOTTED: 3.5 x 100, 4.5 x 125, 6.5 x 150
PHILLIPS: #1 x 80, #2 x 100, #3 x 150

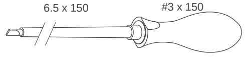

6 piece insulated screwdriver set. Tools certified to 1000 volts. Meets VDE 0680-2, IEC 900 and ASTM -F1505. Specifications for insulated tools. Blades of CVM hardened tool steel. Ergonomic molded-on soft grips.
431-1018-ND (32092) **$41.38**

Standard Precision Technicians Tool Sets

• Fingertip control cap • Narrow tapered handle

SLOTTED: 1.5, 2.0, 2.5, 3.0
PHILLIPS: 00, 0, 1

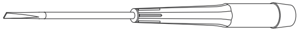

7 piece Slotted and Phillips Standard Precision Technicians Set

Blades of CVM hardened tool steel, satin chrome finish. Molded-on handles proportioned to blade size.
431-1006-ND (26190) **$25.46**

7 piece Slotted and Phillips Precision Extra Long Blade Set

Slotted - 2.5 x 50, 2.5 x 100mm, 3.0 x 100, 3.0 x 150mm, 4.0 x 100, 4.0 x 150mm. Phillips: #0 x 75mm.
431-1007-ND (26092) **$27.76**

8 piece Precision Inch Size Hex Driver Set

Tip sizes: .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8”.
431-1008-ND (26391) **$27.54**

7 piece Precision Metric Size Hex Driver Set

Tip sizes: .7, .9, 1.3, 1.5, 2.0, 2.5, 3.0mm.
431-1009-ND (26390) **$25.46**

8 piece Precision Inch Size Nut Driver Set

Sizes: 3/32, 7/64, 1/8, 9/64, 5/32, 3/16, 7/32, 1/4”.
431-1011-ND (26591) **$38.70**

8 piece Precision Metric Size Nut Driver Set

Sizes: 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0mm.
431-1010-ND (26590) **$39.82**

Master Technicians Bench Top Set

50 precision drivers. **Slotted:** .08, 1.0, 1.2, 1.5, 1.8*, 2.0, 2.5, 3.0, 3.5, 4.0. **Phillips:** #000, #00, #0, #1; **Torx:** T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, T15‡, T20‡ **Metric Hex:** 1.5, 2.0, 2.5, 3.0, 4.0‡ **Inch Hex:** .028, .035, .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 **Metric Nut Drivers:** 1.5, 1.8* 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5. Chip lifter.

431-1053-ND (92190) **$219.98**
431-1051-ND (92092) ESD Safe **$294.30**

* Available only in 431-1053-ND Set
‡ Available only in 431-1051-ND Set

Security Bit Set

Tamper Resistant Torx: TR8, TR10, TR15, TR20, TR25, TR27, TR30, TR40
Tamper Resistant Hex: 5/64, 3/32, 7/64,1/8, 9/64, 5/32
Slotted: 6.8, 8.0
Phillips: 1, 2
Pozidriv: 0, 1, 2, 3
Spanner: 4, 6, 8, 10
Triwing: 1, 2, 3, 4
Square: 1, 2, 3
Torq: 6, 8, 10

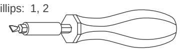

39 piece set in molded storage box with hard-to-find security bit sizes. Includes: handle, 1/4” magnetic power tool adapter, and 1/4 socket bit holder.
431-1013-ND (71990) **$68.98**

MicroBit Set

TORX: T3, T4, T5,T6, T7, T8, T9, T10, T15
HEX: .050, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32
PHILLIPS: 000, 00, 0, 1
SLOTTED: 1.5, 2.0, 3.0, 4.0

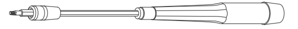

ESD handle. 27 piece set with molded storage box extension, ESD handle and assorted MicroBits.
431-1012-ND (75992) **$51.98**

6 Piece Ergonomic Grip Driver Set with Two Components

SLOTTED: 3.0, 4.5, 5.5, 6.5
PHILLIPS: #1, #2

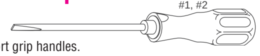

Comfort grip handles.
Hardened tool steel blades.
431-1019-ND (46094) **$25.98**

TORX Insert Bit Set

(DRAWINGS ARE NOT TO SCALE)

6 piece Small Torx insert bit set. Bits of CVM hardened tool steel. Smallest hard-to-find sizes on standard 1/4" Hex Drive. 25mm (1") length.
431-1017-ND (71570) **$10.60**

AVEN Alignment Tool Kits

Includes all the trimmer/potentiometer and RF coil adjusting tools available.

Description	Digi-Key Part No.	Price Each	Aven Part No.
9-piece Anti-Static Alignment Tool Kit	243-1016-ND	8.43	13016
25-piece Master Alignment Tool Kit	243-1017-ND	35.60	13500

Scalpel Handles and Blades

These high precision knives are designed for intricate detailed work. Ideal for precision cutting in microcircuitry, photography, art and more. Blade Material: 0.015" thick Stainless Steel, Non-sterile. Use the #31 Stainless Steel metal handles for blades #10, #11, #12 and #15. Use the #33 Stainless Steel metal handle for blade #23.

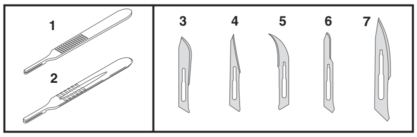

Fig.	Description	Digi-Key Part No.	Price Each	Aven Part No.
	Stainless Steel Metal Handle			
1	Technik #31	243-1031-ND	4.00	44031
2	Technik #33	243-1032-ND	4.25	44033
	Scalpel Blade (2 Per Tube)			
3	Technik #10	243-1033-ND	1.65	44041
4	Technik #11	243-1034-ND	1.65	44042
5	Technik #12	243-1035-ND	1.65	44043
6	Technik #15	243-1036-ND	1.65	44044
7	Technik #23	243-1037-ND	1.65	44045

Tuning Tools, Tweezers, Knives and Blades

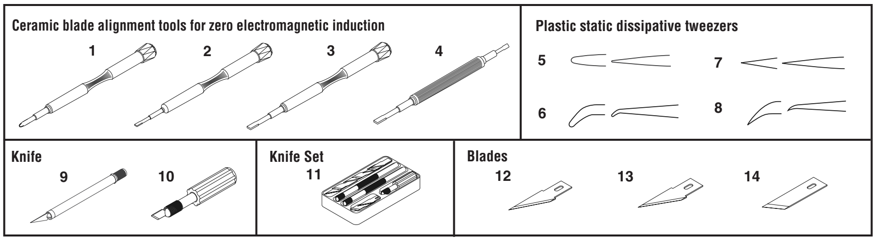
Ceramic blade alignment tools for zero electromagnetic induction
1
2
3
4
Plastic static dissipative tweezers
5
7
6
8
Knife
9
10
Knife Set
11
Blades
12
13
14

Fig.	Description	Digi-Key Part No.	Price Each
1	1.7 mm Phillips Blade	243-1011-ND	8.70
2	1.3 mm Flat Blade	243-1012-ND	8.70
3	2.6 mm Flat Blade	243-1013-ND	8.70
4	4-in-1 Reversible, (#0 and #1 Phillips, .9 mm and 1.8 mm Flat Blade)	243-1014-ND	18.70
5	Straight, Flat, Rounded Tips	243-1001-ND	1.50
6	Curved, Rounded Tips	243-1002-ND	1.50
7	Very Fine, Straight Tips	243-1003-ND	1.50
8	Very Fine, Curved Tips	243-1004-ND	1.50
9	Utility Knife with Rubber Grip	243-1005-ND	3.75
10	Heavy Duty Utility Knife	243-1006-ND	3.40
11	3-Piece Knife Set (Light, Medium and Heavy Duty, 10 Asst. Blades)	243-1010-ND	15.20
12	No. 2 Medium to Heavy Blade, 5 Pc.	243-1007-ND	1.80
13	No. 11 Precision Blade, Stainless Steel, 5 Pc.	243-1015-ND	1.85
14	No. 24 Deburring Blade, 5 Pc.	243-1009-ND	1.85

Light Knife

This unique patented tool features an inspection light handle. The bright light allows you to focus on the work being performed and eliminates blade shadows caused by overhead lights. Ideal for fine cutting and detailing of electronic traces and precision parts.

- 6" Aluminum Handle with Pocket Clip • Three Blades: #11, #22 and #18

Note: Requires two AAA batteries (not included).

Description	Digi-Key Part No.	Price Each	Aven Part No.
Technik Light Knife	243-1038-ND	18.65	44019

Paladin Tools® Cable Stripping Tools

Fig. 1

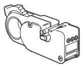

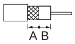

Cassette Type	Dim. (mm) A	B
Green Cassette	7.09	5.11
Brown Cassette	7.49	3.48

Coaxial stripping tool producing 2 and 3 level strips in cables from .100" to .315" (2.54 to 8mm) dia. Replacement blades and easy adjustment, make this tool the perfect choice.

Fig. 2

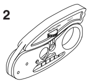

AM12 Multi-level adjustable cable stripper.

Fig.	Description	Digi-Key Part No.	Price Each	Paladin Part No.
	3 Level Coaxial Cable Stripper			
1	Adjustable with Green Cassette	PA1240-ND	88.87	1240
1	Adjustable with Brown Cassette	PA1243-ND	88.87	1243
—	Replacement Blade for PA1240	PA2240-ND	33.31	2240
—	Replacement Blade for PA1243	PA2243-ND	33.31	2243
	Cutter and Stripper for UTP and STP Cables			
2	Cable Stripper	PAL1112-ND	28.88	1112

LC CST Strippers

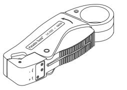

Coaxial stripping tool producing 2 and 3 level stripping of outer jacket, shield braid and inner dielectric. Hex key makes it easy to adjust the blades to set the cutting depth. Self-regulating tensions. Pre-set strip lengths for most common lengths.

Preset Strip Lengths	Strip Types	Cable Usage	Digi-Key Part No.	Price Each	Paladin Part No.
0.315" Outer Jacket 0.157" Inner Dielectric	2 & 3 Level Adjustable	RG58, RG59, RG62, AU & RG6	PAL1255.1-ND	16.99	1255.1
0.236" Outer Jacket	2-Level	RG59, RG6 & RG6 QUAD CATV "F"	PAL1257.1-ND	16.99	1257.1

P-Strippers 10 and 20

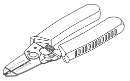

Cuts and strips a wire range of AWG 30-10. Works well for round voice and data cable, electrical wiring, hook-up wire, multi-conductor cables and coaxial cable. These strippers cover the most common range of insulated wire with precise, reliable action and durable steel craftsmanship. Strip standard insulations including PVC, rubber, polyurethane, polyethylene and silicone. Includes built-in safety lock, nose clamp, steel screw cutter and wire loop. PAL1105 is for use on Romex household wiring cable. Not for steel or armored wire and cable.

Description	Digi-Key Part No.	Price Each	Paladin Part No.
P-Stripper 10 Cutter/Stripper (AWG 22-10)	PAL1105.1-ND	11.49	1105.1
P-Stripper 20 Cutter/Stripper (AWG 30-20)	PAL1106.1-ND	11.49	1106.1

Grip P-Strippers 10 and 20

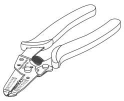

Strip 30-10 AWG-wire and cable using only two tools for the most common types: electrical wire, hook-up and multi-conductor. Head and handles perfectly angled to prevent awkward wrist bends. Rubber-imbedded, non-slip handles. Screw cutter and wire loops embedded in frame. Gripping jaws on front. PAL1117 works on Romex cable individual conductors.

Description	Digi-Key Part No.	Price Each	Paladin Part No.
Grip P-Stripper 10 Cutter/Stripper (AWG 22-10)	PAL1117-ND	14.99	1117
Grip P-Stripper 20 Cutter/Stripper (AWG 30-20)	PAL1118-ND	14.99	1118

Datacomm Scissors and Knife Kit

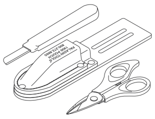

The cable-splicing ProSnips Kit in a leather pouch is designed for cutting cable, telephone wire and stripping insulation. Fiskars® datacomm scissors feature an ergonomic design for the professional user. Leather pouch slotted to fit 2" belts. Scissor is fastened with a solid steel rivet and have stainless steel blades to cut copper or fiber optic cables. Utility knife has a full-size, no-slip textured handle.

Description	Digi-Key Part No.	Price Each	Paladin Part No.
Knife and Scissors in Leather Pouch	PAL1912.1-ND	38.99	1912.1

Probe Pick

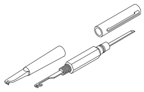

Probe pick for pulling wire, slicing, stripping cable and cleaning debris off terminal panels. Small and light weight pen-sized with clip for carrying in pocket. Spludger tip, wire hook, wire stripper, slitter tooth and a non-conductive scraping tip.

Description	Digi-Key Part No.	Price Each	Paladin Part No.
Pocket Probe Pick	PAL1915.1-ND	4.99	1915.1

Punchdown Stripper

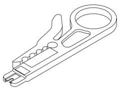

Strips twisted-pair UTP/STP data cables and wires and terminates wires into 110 blocks. Use on UTP/STP data cable, multi-pair cable, hook-up wire and more. Comes in bright Paladin Tool orange. Length: 4" (102mm)

Description	Digi-Key Part No.	Price Each	Paladin Part No.
Punchdown Stripper	PAL1913.1-ND	3.99	1913.1

Surepunch™ Tools

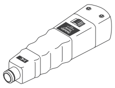

Terminates and cuts telephone wire and data cable into a variety of termination panels including 66, 88, 108, 109, 110, BIX™ and Krone® LSA for insulation displacement type bifurcated terminals. Adjustable spring-compression HI/LO impact tool. For 28-22 AWG, solid or stranded wire. Latch cover blade storage area in end of handle.

Description	Digi-Key Part No.	Price Each	Paladin Part No.
SurePunch PDT Handle (no blade)	PAL3570.1-ND	45.99	3570.1
SurePunch 110 Reversible Blade	PAL4572.1-ND	16.99	4572.1
SurePunch 66 Reversible Blade	PAL4573.1-ND	16.99	4573.1

Non-Impact Punchdown Tools with Fixed Blades

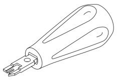

Terminates and cuts telephone and data wire into various types of terminating panels including the 66, 88, 108, 109, 110. For insulation displacement type bifurcated terminals. 28-22 AWG. Performs both cut and punch functions. Perfect for small jobs. Length: 4"

Description	Digi-Key Part No.	Price Each	Paladin Part No.
110 Punchdown Tool	PAL3580.1-ND	13.31	3580.1
66 Punchdown Tool	PAL3581.1-ND	13.31	3581.1

3M ESD Mats and Hardware

1864 Series Conductive Mat / Runner

1864 Floor Mat is a semi-flexible conductive floor mat that contains a rubber filler for resilience. It also has a textured surface for better traction. It includes two 3034 Snap Fasteners (installed) and one 15 ft. (3.0m) Ground cord with a 1 megohm resistor.

1864R Floor Runner is a 50 foot (15.24m) long runner of the 1864 mat material. It includes two 15 foot (3.0m) 3040 Ground Cords with 1 megohm resistor, five 3034 Snap Fasteners and one Snap Fastener Installation Tool.

Description	Digi-Key Part No.	Price Each	3M Part No.
Floor Mat, Black, 0.125 in. (3mm) 4 x 6 ft. (1.2 x 1.8m)	SCP209-ND	257.66	1864 (1/8x4x6)
Floor Runner, Black, 0.125 in. (3mm) 2 x 50 ft. (0.6 x 15m)	SCP210-ND	966.83	1864R

Dissipative Mats

8200 Series:

Vinyl mats are soft table and floor mats with a unique three-layer construction. The top layer is durable static dissipative vinyl, which has sufficiently low resistance to discharge static-laden conductors, yet will prevent the shorting of pins on the backs of printed circuit boards laid on the mat.

8200 Series Floor Mats includes one 15 foot (4.6m) 3040 Ground Cord and two 3050 Snap Fasteners (installed).

8210 Series Table Mats includes two 3M 3050 Snap Fasteners (installed) and one 3M 3048 Wrist Strap Grounding System. Wrist Straps must be ordered separately.

8800 Series:

Rubber mats consist of a top layer of static dissipative rubber laminated to a bottom layer of conductive rubber. Both layers are made from vulcanized synthetic rubber, which offers excellent resistance to oil, grease and most common solvents. They offer superior resistance to heat and hot solder as compared to vinyl or olefinic materials.

8810 Series Table Mats includes two 3034 Snap Fasteners (installed) and one 3048 Wrist Strap Grounding System. Wrist Straps must be ordered separately.

Description	Digi-Key Part No.	Price Each	3M Part No.
Floor Mats			
Vinyl, Brown, 4 x 6 ft.	SCP214-ND	142.78	8201
Vinyl, Gray, 4 x 6 ft.	SCP215-ND	142.78	8203 FLOOR MAT
Vinyl, Blue, 4 x 6 ft.	SCP216-ND	142.78	8204 FLOOR MAT
Table Mats			
Vinyl, Brown, 2 x 4 ft.	SCP219-ND	56.83	8211 TABLE MAT
Vinyl, Gray, 2 x 4 ft.	SCP221-ND	56.83	8213
Vinyl, Blue, 2 x 4 ft.	SCP222-ND	56.83	8214
Rubber, Gray, 2 x 4 ft.	SCP224-ND	65.29	8810
Rubber, Blue, 2 x 4 ft.	SCP225-ND	65.29	8811

Field Service Kit

Static-Dissipative Portable Field Service Kit:

- Static-dissipative work mat with two pockets, .024 inches x 2 feet x 2 feet (0.6mm x 61cm x 61cm)
- Grounding cord assembly with alligator clip
- Charge-Guard™ Series adjustable wrist strap

Lightweight Field Service Kit

The small lightweight kit offers the same level of static control as the full-sized 3M 8501 Field Service Kit, yet is small enough to fit in a shirt pocket.

Kit Includes:

- Static-dissipative work surface with pocket 0.015 inch x 15 inches x 20 inches (.38mm x 38.10cm x 50.80cm)
- 2204 Adjustable Wrist Band
- Lightweight Heavy-Duty Coiled Ground Cords: 2240 Wrist strap ground cord, 5 feet (1.52m); 2243 Extension ground cord, 5 feet (1.52m); 3063 Work surface ground cord 5 feet (1.52m)
- 3038 Alligator Clip

Description	Digi-Key Part No.	Price Each	3M Part No.
Field Service Kit	SCP124-ND	63.54	8501
Lightweight Field Service Kit	SCP182-ND	93.03	8505

Grounding System for Wrist Strap/Table Mat

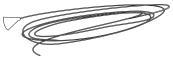

Easily snaps onto mats and runners; grounds two single conductor wrist straps.

Comes complete with ring connector and a 15 foot (4.6 m) ground cord.

Ground cord has 1MΩ resistor for mat connection only.

SCP206-ND **$16.78**

Grounding Cord

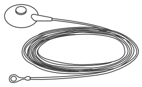

15 ft. (4.6 meter) Pre-installed male snap fastener with integral one megohm resistor on one end, solderless terminal on other end.

Description	Digi-Key Part No.	Price Each	3M Part No.
Grounding Cord	SCP114-ND	12.06	3040

Workstation Grounding Kits

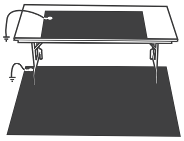

Grounding Kits provide the basic items needed to create a static-safe work environment They include a floor mat, table mat, adjustable wrist strap with grounding cord and accessories to properly connect all of the kit components.

Kit Includes:

- Table Mat, 2 ft. x 4 ft. (.6m x 1.2m)
- Floor Mat, 4 ft. x 6 ft. (1.2m x 1.8m)
- 3M 3040 Ground Cord, 15 ft. (4.6m)
- 3M 3048 Grounding System for Wrist Strap/Table Mat
- 3M 2214 Adjustable Wrist Strap

8020 Series Workstation Grounding Kit:

The 3M 8020 Workstation Grounding Kits provide the complete static protection offered by all the 3M kits. Both the floor and table (8200) mats are made from soft three layer static dissipative material.

8030 Series Workstation Grounding Kit:

These kits contain two different types of static control mats. The table mat is made of the soft three-layered, static dissipative 8200 material, while the floor (1864) mat is of the more rigid, conductive Velostat material.

Description	Digi-Key Part No.	Price Each	3M Part No.
Matching Table and Floor Mats			
Brown, 3 Layer Construction	SCP121-ND	403.76	8021
Gray, 3 Layer Construction	SCP123-ND	403.76	8023
Blue, 3 Layer Construction	SCP211-ND	403.76	8024
Colored Table Mat with Black Velostat Floor Mat			
Brown, 3 Layer Table Mat	SCP179-ND	380.31	8031
Gray, 3 Layer Table Mat	SCP180-ND	380.31	8033
Blue, 3 Layer Table Mat	SCP213-ND	380.31	8034

ACL Staticide®

RoHS COMPLIANT

ESD Mats

Dualmat™ Static Dissipative Work Surface Material

The Dualmat is a static dissipative industrial grade elastomer designed for use on table and other grounded work bench surfaces.

The material meets both the ANSI/ESD S20.20 and European IEC 61340-5-1 specifications.

Features: • Embossed finish • Reversible • .080 inch (2mm) thickness • .05 sec, decay time • Low out gassing and VOC • Low abrasion • No vinyl monomers, or DOP • UV additives

Benefits: • One side colored other side black, ideal for fiber optics • Will withstand high temperature, solder, flux and harsh chemicals • Ideal for cleanrooms and other controlled areas

Dimensions (Inches)	Color	Digi-Key Part No.	Price Each	ACL Staticide Part No.
24 x 36	Green†	ST1051-ND	63.25	8185GM2436
24 x 48		ST1052-ND	84.13	8185GM2448
24 x 60		ST1053-ND	105.13	8185GM2460
24 x 72		ST1054-ND	126.13	8185GM2472
30 x 60		ST1055-ND	131.38	8185GM3060
30 x 72		ST1056-ND	157.63	8185GM3072
24 x 36	Light Blue	ST1033-ND	63.25	8085BM2436
24 x 48		ST1034-ND	84.13	8085BM2448
24 X 60		ST1035-ND	105.13	8085BM2460
24 X 72		ST1036-ND	126.13	8085BM2472
30 X 60		ST1037-ND	131.38	8085BM3060
30 x 72		ST1038-ND	157.63	8085BM3072
24 x 36	Royal Blue	ST1039-ND	63.25	8285RBM2436
24 x 48		ST1040-ND	84.13	8285RBM2448
24 x 60		ST1041-ND	105.13	8285RBM2460
24 x 72		ST1042-ND	126.13	8285RBM2472
30 x 60		ST1043-ND	131.38	8285RBM3060
30 x 72		ST1044-ND	157.63	8285RBM3072
24 x 36	Dark Gray	ST1045-ND	63.25	8385DGYM2436
24 x 48		ST1046-ND	84.13	8385DGYM2448
24 x 60		ST1047-ND	105.13	8385DGYM2460
24 x 72		ST1048-ND	126.13	8385DGYM2472
30 x 60		ST1049-ND	131.38	8385DGYM3060
30 x 72		ST1050-ND	157.63	8385DGYM3072

† Green Mats can be used to designate lead free work areas

DESCO

ESD Mats and Hardware

Statfree® T2 Rubber Table Mats

These table top kits are perfect for individual workstation control. The mat rolls are used for cut-to-fit workstation control.

Durable rubber material, dissipative on one side and conductive on the other — 0.060" (1.5mm) thick. Workstation kits include mat, common point ground cord and universal snap kit.

Note: Hardware not included with rolls.

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
T2 Workstation Kits				
2 x 3 (0.6 x 0.91)	Beige Blue	16-1096-ND 16-1097-ND	68.56 72.66	66030 66040
2 x 4 (0.6 x 1.2)	Blue Dark Grey	16-1074-ND 16-1075-ND	90.21 90.21	66045 66055

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
T2 Workstation Mat Rolls				
2 x 40 (0.6 x 12.2)	Blue Dark Grey	16-1072-ND 16-1073-ND	584.06 584.06	66070 66080

Statfree® Type B Vinyl Table Mats

These tabletop kits are perfect for individual workstation ESD control. Smooth finish on one side and a non-glare finish on the other — .100" (2.54mm) thick. Complete common point ground kit is included with table mat kits.

Note: Hardware not included with rolls.

Dim. Ft. (Meters)	Color	Kit Includes	Digi-Key Part No.	Price Each	Desco Part No.
Type B Mat Top Kits					
2 x 3 (.61 x .91)	Beige Blue	Bench Ground Kit	16-1042-ND 16-1044-ND	61.75 61.75	16201 16213
2 x 4 (.61 x 1.22)	Beige Blue	Bench Ground Kit	16-1043-ND 16-1045-ND	74.57 74.57	16202 16214

Dim. Ft. (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
Type B Rolls				
2 x 40 (0.6 x 12.2)	Beige Blue Brown	16-1076-ND 16-1077-ND 16-1078-ND	434.60 434.60 410.00	16250 16260 16270
2.5 x 40 (0.76 x 12.2)	Beige Blue Brown	16-1079-ND 16-1080-ND 16-1081-ND	542.72 542.72 512.00	16255 16265 16275

(Continued)

DESCO

ESD Mats and Hardware *(Cont.)*

Statfree® EB Rubber Floor Mat

Excellent floor mat for worker comfort and productivity.

Durable homogeneous rubber — 0.50" (12.7mm) thick.

Dim. Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
3 x 5 (0.9 x 1.5)	16-1067-ND	274.37	40935

Statfree® ESD Bench Top Mat - Type B Plus

ESD Grounding Mats for use along benchtops and shelving.

These 24" wide by 40' long bench mats are reversible single layer vinyl and can be easily cut to dimension — .100" thick.

Their durability and general purpose construction make them ideal for benchtops, shelving and floor mats.

Description	Digi-Key Part No.	Price Each	Desco Part No.
24" x 40' (60.96cm x 12.2 M) ESD Bench Mat			
Blue, Lightly Textured	16-1009-ND	498.00	16350
Universal Snap Kit for Mats, 6 pc. (connects wrist strap to mat)	16-1012-ND	4.50	09864
Push and Clinch Snaps			
Pronged 10mm Stud Snap	16-1052-ND	3.63	09861
Pronged 10mm Socket Snap	16-1053-ND	3.63	09863

Statfree®
CV Conductive Vinyl Floor Mat

Excellent floor mat for hard surface and carpeted area using rolling chairs and carts. Durable and long lasting vinyl material; reversible — 0.125" (3.2mm) thick.

Ground kit is included with floor mat kits. Color: Black

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
CV Floor Mat Kit			
4 x 6 (1.2 x 1.8)	16-1071-ND	195.90	15006

Statfree Z2™ - Dissipative 3 Layer Vinyl Mat Top Kits

Statfree Z2 Material is a highly effective three-layer material. Its durable vinyl top layer makes it ideally suited for use as an ESD protective bench mat.

Its highly conductive middle layer provides a faster discharge path to ground. The cushioned dissipative bottom layer provides excellent protection against physical damage, and makes it easier to pick up small parts.

Kits include common point ground kit.

Dimensions Feet (Meters)	Color	Digi-Key Part No.	Price Each	Desco Part No.
2 x 3 (0.6 x 0.91)	Blue	16-1092-ND	66.52	42460
2 x 4 (0.6 x 1.2)		16-1093-ND	79.50	42465
2 x 3 (0.6 x 0.91)	Grey	16-1094-ND	66.52	42470
2 x 4 (0.6 x 1.2)		16-1095-ND	79.50	42475

Statfree i™ - Conductive Ergonomic Rubber Interlocking Room System

This material is designed primarily to be used as a floor runner or to protect an entire room.

The unique anti-fatigue dome/support cells provide extra comfort and prevent the mat from shifting on the floor.

Its interlocking strip can be easily trimmed to give clean beveled edges.

Color: Black.

Dimensions Feet (Meters)	Digi-Key Part No.	Price Each	Desco Part No.
2 x 3 (0.6 x 0.91)	16-1090-ND	108.82	40930
3 x 4 (0.91 x 1.2)	16-1091-ND	216.95	40931

Ground Point for Bench Mat and Two Wrist Straps without Resistor

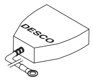

Description	Digi-Key Part No.	Price Each	Desco Part No.
10mm Socket, 10' (3.05M) Cord	16-1050-ND	20.12	09820
10mm Stud, 15' (4.57M) Cord	16-1051-ND	20.12	09825

Floor and Work Surface Ground Cord

Screw allows ground cord to be bolted to mat to keep cord from disconnecting.

Description	Digi-Key Part No.	Price Each	Desco Part No.
Without Resistor, 10mm Snap Stud, 15' Cord	16-1063-ND	20.12	09814

3M

Static Control Wrist Straps, Heel Straps and Testers

Charge-Guard™ Adjustable Wrist Strap

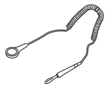

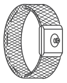

Flex life 1,000,000.

Wrist straps are the front line of defense in all static control processes. Ensure a comfortable fit with the Charge-Guard™ Series Adjustable Wrist Strap.
One size adjusts to any size wrist to provide reliable, 360 degree protection.

Charge-Guard™ Disposable Wrist Strap

The Charge-Guard™ Disposable Wrist Strap provides cost-effective and reliable static protection.

The wrist strap is suited for shipping valuable products to ensure protection at the receiving end.

Highland Model™ 2272 Adjustable Static Control Wrist Strap

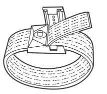

Flex life 350,000.

Conductive comfort band — Silver-plated, continuous monofilament threads establish a 360° contact zone and a reliable path to ground. The banding gently contacts the skin and allows it to breathe for extreme comfort.
The stainless steel backplate secures the end of the band in the clasp and ensures reliable electrical bond.

Description	Digi-Key Part No.	Price Each	3M Part No.
Wrist Strap with Coiled Cord, 5 ft.	SCP141-ND	17.20	2214
Wrist Strap with Coiled Cord, 10 ft.	SCP142-ND	23.89	2224
Replacement Wrist Bands	SCP144-ND	6.86	2204
Disposable Wrist Strap	SCP145-ND	1.17	2209
Adjustable Wrist Strap, with 5 ft. Coiled Grounding Cord and Alligator Clip	SCP172-ND	7.46	2272
Adjustable Wrist Strap	SCP173-ND	3.24	2271

Wrist Strap Grounding System

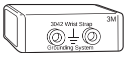

Wrist Strap Grounding System with two banana jacks and one 10 foot (3.0m) grounding cord.

SCP115-ND **$21.22**

Static Control Shoe Grounding Assemblies (Heel Straps)

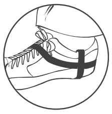

Long lasting Static Control heel straps provide static protection while retaining worker mobility.

Features:

• Increase personnel mobility • One size fits most shoes • Extra long contact ribbon accommodates most boots

Note: The Grounding Assemblies are not to be used in areas where the individual may come in contact with electrical circuitry exceeding 250 volts.

Description	Digi-Key Part No.	Price Each	3M Part No.
With 1meg Ohm Resistor	SCP163-ND	8.10	2051

Charge-Guard™ 746 Wrist Strap Tester

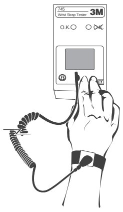

The 746 wrist strap tester is a compact unit much like the 745 but it operates on either battery or AC power.

Can be used in production facilities to field service locations.

Unit comes complete with an AC adapter, lithium battery and wall mounting kit.

SCP235-ND **$201.07**

Wall Mount Wrist Strap Tester

The 3M 740 Wrist Strap Tester is an AC-powered unit designed to be wall-mounted in a production facility for daily testing of employees' static control wrist straps.

Simple to operate, with red and green LEDs giving a clear "go" or "no go" indication.

Comes with the base unit, output connector, wall-mounting system and template, cover for the wrist strap plug-in jack and the AC/DC transformer.

Dimensions:
5.43 x 7.48 x 2.09 inches (13.8 x 19.0 x 5.3cm).

SCP204-ND **$426.54**

Wrist Strap Workstation Monitor

The 3M 724 Wrist Strap Workstation Monitor continuously verifies the resistance of the operator and work surface ground connections. The monitor uses a reliable resistance method that actually includes the operator's skin resistance to determine if the system is operating properly. If the operator's resistance exceeds 10 megohms or 35 megohms, or the wiring connections exceed 3.7 megohms, audible and visible alarms are triggered. The unit will also warn of potentially dangerous low-resistance situations.

The monitor uses the light and compact dual conductor wrist strap. Dual conductors provide the resistance circuit that is monitored as well as provide grounding redundancy. If one conductor fails, the other will still function to prevent sensitive components from being exposed to static.

Comes complete with a quick connect/disconnect 732 Remote Jack and mounting hardware.

Dimensions:
6.5 inches x 3.25 inches x 1.5 inches (162mm x 82mm x 38mm)

Description	Digi-Key Part No.	Price Each	3M Part No.
Workstation Monitor Kit w/HDWR	SCP226-ND	149.49	724
Dual Conductor Fabric Wrist Strap Adjustable	SCP232-ND	8.53	2368
Dual Conductor Coiled Cord 5'	SCP233-ND	17.18	2360
Dual Conductor Coiled Cord 10'	SCP234-ND	19.94	2370

DESCO

Static Control Wrist Straps, Heel Straps and Testers

Adjustable Wrist Straps

Elastic wrist straps have silver impregnated nylon knitted inside with a soft lightweight fabric, allowing softness, comfort and flexibility. May be fitted to any size. 4mm snap.

Speidel wrist straps are Twist-O-Flex® metal wrist straps made of nonallergenic stainless steel for reducing reactions and providing long service life.

Use **Replacement Coiled cords** for wrist straps, smocks and gloves. 4mm stainless steel contact snap to connect directly to wrist straps. Molded in one meg ohm series resistor at snap end to protect operator from line voltage.

Hook and Loop wrist straps are one size fits all. Return loop makes for quick and easy adjustment. Non-reactive anti-microbial, anti-bacterial medical grade conductive strip; the best choice for users with ultra sensitive skin.

Description	Digi-Key Part No.	Price Each	Desco Part No.
Elastic Band Wrist Strap			
With 6' (1.8M) Coil Cord, Blue	16-1087-ND	23.42	09070
With 12' (3.66M) Coil Cord, Blue	16-1086-ND	25.26	09069
Straps Only (no cord)	16-1085-ND	9.32	09028
Replacement Strip for 09028	16-1066-ND	4.13	09029
Economy Adjustable Wrist Strap with 6' (1.8M) Coiled Cord	16-1021-ND	14.14	09039
Speidel® Twist-O-Flex® Metal Band Wrist Strap			
With 6' (1.8M) Coiled Cord, Black	16-1006-ND	40.06	09085
Strap Only (extra large, no cord)	16-1008-ND	29.28	09042
Replacement Coiled Cords			
6' (1.8M) Economy Coiled Cord Only, Blk., 4mm Snap	16-1022-ND	16.32	09480
12' (3.66M) Economy Coiled Cord Only, Blk., 4mm Snap	16-1023-ND	20.42	09680
6' (1.8M) (Relaxed) Retraction, R/A, Coiled Cord Only, Blk., 4mm Snap	16-1064-ND	15.50	91095
Hook and Loop Wrist Strap			
Straps Only (no cord)	16-1088-ND	11.38	09060

Dual ESD Ground Point Bench Mount

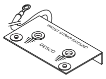

Description	Digi-Key Part No.	Price Each	Desco Part No.
With 10' (3.05M) Cord	16-1055-ND	21.32	09740

Dual Operator Continuous Monitor

Control Unit LEDs indicate proper grounding of two mats and two operators. Two Satellite Remote Monitors include monitored wrist strap ground, parking stud, and unmonitored ground for guest or equipment.

Description	Digi-Key Part No.	Price Each	Desco Part No.
Dual Operator Continuous Monitor, 120V	16-1082-ND	220.50	19230

Foot / Heel Grounders

Features:

- Exceptionally tear resistant dual layer rubber with inner scrim
- Hook and loop fastening assembly
- 8 strand nylon polyester grounding tab
- Will not mark shoes

Description	Digi-Key Part No.	Price Each	Desco Part No.
Adjustable Hook and Loop Heel Strap w/1 Meg Res.	16-1024-ND	11.74	17200
Heel Grounder with 1 Meg Resistor	16-1068-ND	10.15	07588

Wrist Strap Tester

Battery powered 9 volt tester that tests wrist straps with a single touch at the workstation.

Test results include Fail Low, Pass and Fail High. 800KΩ - 10MΩ

Description	Digi-Key Part No.	Price Each	Desco Part No.
Touch Tester, 9VDC	16-1089-ND	90.13	19240

Wrist Strap and Footwear Combo Tester with Stand

Battery powered 9 volt tester that tests wrist straps with a single touch at the workstation. Test results include Fail Low, Pass and Fail High.

Wrist Strap Range: 750KΩ - 10MΩ
Footwear Range: 750KΩ - 100MΩ

Description	Digi-Key Part No.	Price Each	Desco Part No.
Combo Tester with Stand	16-1084-ND	390.81	19252

Jewel® Mini Monitor

Ensures ESD protected workstation. Provides true 100% continuous monitoring; cannot be fooled, no false alarms. Small size takes up minimal work surface area.

Size: 2.77" x 2.07"

Description	Digi-Key Part No.	Price Each	Desco Part No.
Jewel® Mini Monitor, 120V, Sapphire	16-1083-ND	119.70	19212

3M

Static Control Shielding Bags and Labels

Economy Static-Shielding Bags

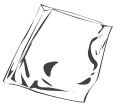

(1900 Series Metal-In): Use these more economical Static Shielding Bags for less demanding applications where reuse and high durability are not a prime consideration.

The metal-in aluminum vapor coating is on a thinner 0.48 mil polyester as opposed to the 0.92 mil polyester in the 2100 series.

Economy ZipBag Static-Shielding Bags

(1910 Series Metal-In): The 1910 features a dual track closure for easy opening and closing.

Size Inch (cm)	Digi-Key Part No.	Price Each 25	Price Each 100	3M Part No.
1900 Series Metal-In Transparent Shielding Bags, 3.1 mil				
3 x 5 (7.62 x 12.70)	SCP153-ND	.10	.09	1900 3x5
4 x 6 (10.16 x 15.24)	SCP154-ND	.12	.11	1900 4x6
4 x 24 (10.16 x 60.96)	SCP155-ND	.31	.28	1900 4x24
4 x 30 (10.16 x 76.20)	SCP156-ND	.39	.35	1900 4x30
5 x 8 (12.70 x 20.32)	SCP157-ND	.17	.15	1900 5x8
6 x 10 (15.24 x 25.40)	SCP158-ND	.22	.20	1900 6x10
8 x 10 (20.32 x 25.40)	SCP159-ND	.27	.24	1900 8x10
8 x 12 (20.32 x 30.48)	SCP160-ND	.29	.26	1900 8x12
10 x 14 (25.40 x 35.56)	SCP161-ND	.41	.37	1900 10x14
12 x 16 (30.48 x 40.64)	SCP162-ND	.56	.50	1900 12x16
1910 Series Metal-In Shielding ZipBags, 3.1 mil				
3 x 5 (7.62 x 12.70)	SCP165-ND	.14	.13	1910 3x5
4 x 6 (10.16 x 15.24)	SCP166-ND	.16	.15	1910 4x6
5 x 8 (12.70 x 20.32)	SCP167-ND	.23	.20	1910 5x8
6 x 10 (15.24 x 25.40)	SCP168-ND	.29	.27	1910 6x10
8 x 10 (20.32 x 25.40)	SCP169-ND	.36	.33	1910 8x10
10 x 12 (25.40 x 30.48)	SCP170-ND	.49	.44	1910 10x12
12 x 16 (30.48 x 40.64)	SCP171-ND	.76	.68	1910 12x16

Labels

Fig. 1

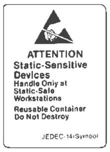
ATTENTION
Static-Sensitive Devices
Handle Only at Static-Safe Workstations
Reusable Container Do Not Destroy
JEDEC-14 Symbol

Fig. 2

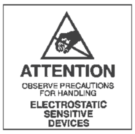
ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

Fig.	Digi-Key Part No.	Size Inches (mm)
1	SCP129-ND	1.75 x 2.5 (44.45 x 63.5)
	SCP128-ND	1.75 x 2.5 (44.45 x 63.5)
2	SCP127-ND	2 x 2 (50.80 x 50.80)
	SCP126-ND	2 x 2 (50.80 x 50.80)
	SCP130-ND	4 x 4 (101.60 x 101.60)

Description	Quantity (per roll)	Digi-Key Part No.	Price Each	3M Part No.
(JEDEC-14) Orange†•	500	SCP129-ND	28.87	7101
(JEDEC-14) Yellow†*	500	SCP128-ND	32.09	7102
(Mil. Std. 129J) Yellow†•	500	SCP127-ND	36.51	7201
(Mil. Std. 129J) Yellow†*	500	SCP126-ND	36.51	7202
(Mil. Std. 129J) Yellow†•	250	SCP130-ND	59.12	7203

† With Black type • Reusable * Destructible

Ionized Air Blowers

The 963 neutralizes static charge on nonconductive materials and helps prevent static from damaging sensitive electronic components.

120 Volts, 6 x 6 x 2.5 inches (15.24 x 15.24 x 6.35cm)

SCP207-ND **$398.81**

DESCO

Static Control Shielding Bags, Labels and Desiccant Packs

Statshield® EMI/RFI ESD Moisture Barrier Bags

This bag combines the properties of MOISTURE-VAPOR-BARRIER with EMI-RFI-ESD shielding.

Manufactured from a Type 1 Class N652-260M film which is qualified to MIL-B-81705- Rev C Type I.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	Pricing 100	Desco Part No.
6 x 10 (15.24 x 25.40)	16-1016-ND	9.32	19.13	13808
10 x 12 (25.40 x 30.48)	16-1018-ND	16.89	34.69	13816
12 x 16 (30.48 x 40.64)	16-1019-ND	26.69	54.79	13824
18 x 24 (45.72 x 60.96)	16-1020-ND	56.33	115.66	13832

Statshield® ESD Shielding Bags – Metal Out

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies.

Meets the electrical and mechanical requirements of MIL-PRF-81705D, EIA541. Superior durability at a low cost.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	Pricing 100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1056-ND	3.49	9.00	13010
4 x 6 (10.16 x 15.24)	16-1057-ND	4.34	11.19	13020
5 x 8 (12.70 x 20.32)	16-1058-ND	5.84	15.05	13035
6 x 10 (15.24 x 25.40)	16-1059-ND	7.29	18.80	13050
8 x 10 (20.32 x 25.40)	16-1060-ND	8.73	22.48	13065
8 x 12 (20.32 x 30.48)	16-1061-ND	10.23	26.24	13070

(Continued)

DESCO

Static Control Shielding Bags, Labels and Desiccant Packs *(Cont.)*

Statshield® ESD Shielding Bags – Metal In

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies. Meets the electrical and mechanical requirements of MIL-B-81705C. Superior durability at a low cost.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	Pricing 100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1027-ND	2.17	5.73	13405
4 x 6 (10.16 x 15.24)	16-1028-ND	2.42	6.43	13415
5 x 8 (12.70 x 20.32)	16-1029-ND	3.83	10.19	13430
6 x 10 (15.24 x 25.40)	16-1030-ND	4.64	12.27	13445
8 x 10 (20.32 x 25.40)	16-1031-ND	6.63	17.54	13460

Statshield® Zipper-Style ESD Shielding Bags – Metal In

ESD shielding bags for safely storing and transporting sensitive electronic components and assemblies. Features a reclosable polyethylene zipper for safe and easy opening and reclosing of bag. Meets the electrical and mechanical requirements of MIL-B-81705C.

Size Inch (cm)	Digi-Key Part No.	Pricing 25	Pricing 100	Desco Part No.
3 x 5 (7.62 x 12.70)	16-1032-ND	3.47	9.20	13605
4 x 6 (10.16 x 15.24)	16-1033-ND	4.51	11.93	13615
5 x 8 (12.70 x 20.32)	16-1034-ND	6.58	17.42	13630
6 x 10 (15.24 x 25.40)	16-1035-ND	7.86	20.84	13645
8 x 10 (20.32 x 25.40)	16-1036-ND	11.17	29.58	13660

Static Label for Packaging

ATTENTION
OBSERVE PRECAUTIONS FOR HANDLING
ELECTROSTATIC SENSITIVE DEVICES

Static Attention labels used for sealing Shielding Bags and marking ESD Containers.

Color: Yellow/Black.

Description	Digi-Key Part No.	Price Each	Desco Part No.
2" x 2" (50.8mm x 50.8mm) 500 pieces	16-1001-ND	14.64	06722

Label for Equipment that Contains ESDS

Identifies equipment that when opened has ESD sensitive (ESDS) items that are susceptible to ESD damage.

CAUTION
CONTAINS PARTS AND ASSEMBLIES SUSCEPTIBLE TO DAMAGE BY ELECTROSTATIC DISCHARGE (ESD)
Item #06770
www.descoindustries.com

Description	Digi-Key Part No.	Price Each	Desco Part No.
2" x 3/4" (50.8mm x 19.05mm) 500 pieces	16-1062-ND	7.73	06770

Moisture Sensitive Caution Label

Moisture sensitive labels used for marking bags that contain moisture sensitive devices.

Color: Blue/White

Description	Digi-Key Part No.	Price Each	Desco Part No.
3" x 3" (76.2mm x 76.2mm) 250 pieces	16-1069-ND	24.40	06733

Humidity Card and Desiccant Pack

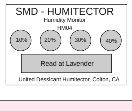

Description	Digi-Key Part No.	Price Each	Desco Part No.
Humidity Card ESD 2" x 3" (50.80mm x 76.20mm)100 pcs/pk	16-1048-ND	30.20	13870
Desiccant Pack 3" x 3.5" (76.20mm x 88.90mm) 550 pcs/pk	16-1049-ND	101.59	13850
Desiccant Pack 5" x 3.5" (127mm x 88.90mm) 300 pcs/pk	16-1065-ND	74.40	13852

3M ESD Card Carriers

Single Card Carriers

Single card carriers protect individual PCB's from static and physical damage during storage and transport. Interiors are lined with dissipative foam cushioning. The lid of each carrier can be modified for identification labels or company logos.
The 12 compartment tray is a molded ESD safe tray for transporting components within the plant or for storing components during PCB assembly.

Description	Digi-Key Part No.	Price Each	3M Part No.
Card Carrier 10" x 8" x 1.25" with Hinged Lid	SCP237-ND	24.43	8520
Card Carrier 12" x 9" x 1.25" with Hinged Lid	SCP238-ND	30.37	8521
Card Carrier 18" x 17" x 2" with Hinged Lid	SCP239-ND	61.94	8522
Card Carrier 10" x 8" x 2" with Hinged Lid	SCP190-ND	28.35	8523
Velostat™ Single Device Carrier 1.55" x 1.01" x 0.46"	SCP131-ND	5.75/10	5701

ACL Staticide®

Static Control Cleaning Products

General Purpose Staticide

(For Non-Porous Surfaces)
Solves static related problems such as:

- The attraction of dirt, dust and bacteria to all environmental surfaces, products and product packaging.
- Charge generation on surfaces of tote boxes and carriers used to process and store electronic components.
- Damage or destruction of sensitive electronic components and subassemblies during their manufacture, shipping or receiving.
- Data processing "glitches" ... memory loss, data errors, paper jams.

ST1002-ND (quart) **$10.88**

Heavy Duty Staticide

(For Porous Surfaces)

- Ideal for eliminating costly static problems on carpeting.
- Ideal for eliminating jamming or slipping of materials during printing, packaging or converting.
- Ideal for eliminating ignition of combustible vapors, dust or solvents causing fire or explosion.

ST1003-ND (quart) **$17.88**

Anti-Glare Screen Cleaner

Perfect for monitors and screens, won't streak or stain.
4oz. bottle with pump.

ST1025-ND **$5.63**

Industrial Size Wipes

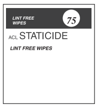

These strong, highly absorbent lint free cloths are for use on any surface.

Ideal for computer screens and computer screen filters.

ST1031-ND (Bundle of 75) **$11.88**

Twice the size of a conventional wipe 11 x 8. The extra big wipe with muscle.

Ideal for use in industrial, commercial and technical environments.

ST1006-ND (Box of 50) **$33.25**

Notebook / Laptop Cleaning Wipes

Designed exclusively for all notebook computer screens for use to remove fingerprints, ink, nicotine and other contaminants.
50 presaturated wipes in a handy dispenser.

ST1020-ND **$13.63**

ESD Hand Sanitizer

This product provides excellent sanitization without the use of water or towels; contains 60% ethyl alcohol to prevent bacterial transfer.

Use in place of bacterial soap where static conditioning of the hands are not affected.

ST1030-ND **$11.25**

CD-ROM Scratch Repair Kit

Fix those damaged CD's.
Repairs scratches and cleans fingerprints, dust and dirt. Staticide's new solution combines safe and effective cleaners with special polymers that actually molecularly bond to the disc surface repairing the toughest scratches.

Use on both old and new discs regularly to actually make them more durable.

ST1019-ND **$17.38**

Premoistened Wipes

Meets or exceeds military electrostatic decay criteria. This long lasting wipe prevents dust attraction, is biodegradable, and is safe and easy to use.

For use on all materials that are not adversely affected by water or alcohol.

Wipes supplied in reclosable container.

ST1027-ND Premoistened Staticide Wipes **$14.88**

An effective way to clean and disinfect hard non-porous surfaces. Cleans and disinfects telephones, earphones, and other telecommunications equipment.

Wipes supplied in reclosable container.

ST1028-ND Staticide Telephone Cleaning Wipes...... **$15.70**

These pre-moistened wipes contain a unique solution that cleans better and keeps lenses cleaner longer. Ideal for cleaning most types of glass and plastic lenses including goggles, cameras, binoculars, microscopes, camcorders and magnifiers. It also fights fog build-up.

Wipes supplied in reclosable container.

ST1029-ND Staticide Clean & Clear Optical Wipes **$14.88**

Anti-Static Starter Kit

This compact kit contains staticides, cleaner, lotion, swabs and wipes for all of your everyday static problems.

ST1032-ND **$24.95**

DESCO

Static Control Lotion and Cleaner

Reztore™ ESD Hand Lotion

Specially formulated for use in the electronic manufacturing environment. The moisturizing hand lotion can be used to enhance the effectiveness of ESD control wrist straps, particularly for individuals with dry skin.

It is free of chemicals that may adversely affect solderability or cause corrosion of electronic components.

Contaminants: No soap, lanolin, free-salts, silicones or mineral oil

Description	Digi-Key Part No.	Price Each	Desco Part No.
ESD Hand Lotion, (1 quart pump)	16-1070-ND	18.60	81082

Reztore™ Antistatic Cleaner

Cleans and restores ESD mats and will not degrade surface's ability to drain charges. Does not contain silicon or alcohol.

Ideal for cleaning mats, electronic instrumentation, medical equipment and computer monitors keyboards and equipment.

Description	Digi-Key Part No.	Pricing 1	Pricing 12	Desco Part No.
Cleaner, (One Quart)	16-1054-ND	9.96	91.20	10435

ITW Chemtronics®

ESD Hand Lotion

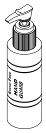

Non-contaminating hand lotion for electronics. Contains no silicon. Non-greasy formula with a fresh natural fragrance in an 8 oz. (.24 liter) pump.

Minimizes potential for static damage and build-up. Won't affect the solderability of components or PCBs.

Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Price Each 500	ITW Chemtronics Part No.
C805-ND	7.10	6.42	6.00	5.46	C805

METCAL
DIVISION OF OK INTERNATIONAL

MX Series Rework Soldering Systems & Replacement Parts

Features: SmartHeat® Technology. Metcal's tip cartridges sense the load and instantly adjust power to quickly deliver the right amount of heat precisely where it is needed. Metcal systems use SmartHeat technology that is incapable of overshoot and can deliver high throughput at lower temperatures. Because the interchangeable SmartHeat cartridges contain a heater and temperature self-regulating alloy, Smart-Heat systems require no calibration. SmartHeat technology systems need no dials or readouts, tip cartridges specify the temperature by series, providing continuous temperature for fast, easy, and safe soldering.
Metcal's Talon® easy-squeeze design makes removing SMD components a snap. Talon was designed with ergonomics, style, and superior performance in mind. Beveled edge tips allows rework of several different components without changing tip cartridges.

Fig. 1

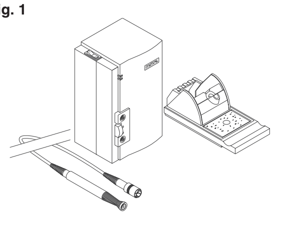

Tips sold separately.

Fig. 2

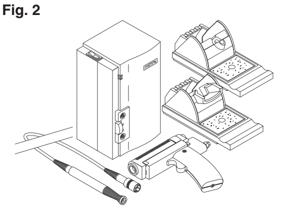

Tips sold separately.

Fig. 3

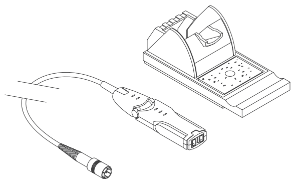

Tips sold separately.

Fig.	Description	Digi-Key Part No.	Price Each	Metcal Part No.
1	Rework System with Dual Expansion Port,100/120VAC	389-1000-ND	485.00	MX-500S-11
2	Rework/Desoldering System, 100/120 VAC	389-1087-ND	766.00	MX-500DS-11
—	Replacement Rework Handpiece with Cord, ESD Safe, for MX Systems	389-1001-ND	87.55	MX-RM3E
3	Optional Talon SMT Tweezer Kit, includes Handpiece with Cord, Workstand, Sponge, and Cartridge Removal Pad	389-1002-ND	334.74	MX-TALON-01
—	Tip Stand for MX Series	389-1045-ND	38.48	AC-TSTAND
—	Desolder Upgrade Kit, includes Handpiece, ESD Air Hose, Workstand, Chamber Liner & Filter Pack, Tip Cleaner	389-1088-ND	375.19	MX-D001

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	Metcal Part No.
500°F Tip Cartridges for MX Series Rework Systems				
.200 (5.080)	XL Chisel	389-1003-ND	22.60	STTC-517
.100 (2.540)	Chisel	389-1006-ND	22.60	STTC-536
.050 (1.270)	Conical Chisel	389-1082-ND	22.60	STTC-541
.060 (1.520)	Chisel	389-1007-ND	22.60	STTC-538
.040 (1.020)	Chisel	389-1005-ND	22.60	STTC-525
.016 (0.406)	Conical Sharp	389-1004-ND	22.60	STTC-522
.016 (0.406)	Sharp Bent	389-1080-ND	22.60	STTC-526
.016 (0.406)	Conical Sharp	389-1081-ND	22.60	STTC-540
.016 (0.406)	Bevel	389-1008-ND	22.60	STTC-545
.010 (0.254)	Microfine Bevel	389-1083-ND	22.60	STTC-590
600°F Tip Cartridges for MX Series Rework Systems				
.200 (5.080)	XL Chisel	389-1009-ND	22.60	STTC-017
.100 (2.540)	Chisel	389-1011-ND	22.60	STTC-036
.070 (1.780)	Chisel	389-1012-ND	22.60	STTC-037
.060 (1.520)	Chisel	389-1013-ND	22.60	STTC-038
.040 (1.020)	Chisel	389-1064-ND	22.60	STTC-025
.016 (0.406)	Conical Sharp	389-1010-ND	22.60	STTC-022
.016 (0.406)	Sharp Bent	389-1065-ND	22.60	STTC-026
.016 (0.406)	Conical Sharp	389-1066-ND	22.60	STTC-040
.016 (0.406)	Bevel	389-1014-ND	22.60	STTC-045
.010 (0.254)	Microfine Bevel	389-1067-ND	22.60	STTC-090
700°F Tip Cartridges for MX Series Rework Systems				
.200 (5.080)	X-Large Chisel	389-1070-ND	22.60	STTC-117
.100 (2.540)	Chisel	389-1074-ND	22.60	STTC-136
.070 (1.780)	Chisel	389-1075-ND	22.60	STTC-137
.060 (1.520)	Chisel	389-1076-ND	22.60	STTC-138
.040 (1.020)	Conical Sharp	389-1069-ND	22.60	STTC-107
.040 (1.020)	Chisel	389-1072-ND	22.60	STTC-125
.020 (0.510)	Conical Sharp	389-1078-ND	22.60	STTC-144
.016 (0.406)	Conical Sharp	389-1068-ND	22.60	STTC-106
.016 (0.406)	Conical Sharp	389-1071-ND	22.60	STTC-122
.016 (0.406)	Sharp Bent	389-1073-ND	22.60	STTC-126
.016 (0.406)	Conical Sharp	389-1077-ND	22.60	STTC-140
.016 (0.406)	Bevel	389-1079-ND	22.60	STTC-145
800°F Tip Cartridges for MX Series Rework Systems				
.120 (3.050)	Chisel	389-1084-ND	25.70	STTC-803

Desoldering Tips for MX Rework Systems

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	Metcal Part No.
.025 (.635)	600 Series	389-1062-ND	37.65	STDC-002
.025 (.635)	700 Series	389-1089-ND	37.65	STDC-102
.030 (.762)	600 Series	389-1091-ND	37.65	STDC-003
.030 (.762)	700 Series	389-1090-ND	37.65	STDC-103
.040 (1.020)	600 Series	389-1092-ND	37.65	STDC-004
.040 (1.020)	700 Series	389-1063-ND	37.65	STDC-104
.050 (1.27)	600 Series	389-1093-ND	37.65	STDC-005
.050 (1.27)	700 Series	389-1094-ND	37.65	STDC-105

SMT Solder - Desolder Tips

Slot Tip

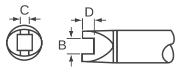

Tunnel Tip - SOIC

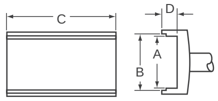

Talon Tips

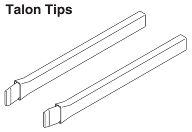

Tip Dimensions Inches (mm) A	B	C	D	SMD Component	Digi-Key Part No.	Price Each	Metcal Part No.
500°F SMD Slot Tip Cartridges for MX Series Rework Systems							
—	.090(2.286)	.050(1.270)	.070(1.778)	Chip 0805	389-1015-ND	36.98	SMTC-501
—	.140(3.556)	.060(1.524)	.070(1.778)	Chip 1206, 1210	389-1016-ND	36.98	SMTC-502
—	.068(1.727)	.100(2.540)	.050(1.270)	SOT-23	389-1017-ND	36.98	SMTC-505
—	.110(2.794)	.250(6.350)	.080(2.032)	SOT-89	389-1018-ND	36.98	SMTC-508
—	.070(1.778)	.040(1.016)	.035(0.889)	Chip 0402, 0603	389-1019-ND	36.98	SMTC-596
—	.080(2.030)	.050(1.270)	.060(1.520)	Chip 0402, 0603, 0805	389-1050-ND	35.11	SMTC-588
600°F SMD Tunnel Tip Cartridges for MX Series Rework Systems							
.200(5.080)	.200(5.080)	.170(4.318)	.090(2.286)	SOIC-8	389-1020-ND	42.31	SMTC-004
.200(5.080)	.200(5.080)	.400(10.160)	.090(2.286)	SOIC-14, SOIC-16	389-1021-ND	42.31	SMTC-006
.375(9.525)	.375(9.525)	.720(18.288)	.125(3.175)	SOIC-28, SOL-34	389-1022-ND	42.31	SMTC-007
.375(9.525)	.375(9.525)	.620(15.748)	.125(3.175)	SOIC-24	389-1023-ND	42.31	SMTC-009
.375(9.525)	.375(9.525)	.520(13.208)	.125(3.175)	SOIC-20	389-1024-ND	42.31	SMTC-010
700°F Quad Tip Cartridges for QFP							
.440(11.18)	.480(12.19)	.480(12.19)	.110(2.79)	TQFP-44	389-1047-ND	63.01	SMTC-1159

Description	Digi-Key Part No.	Price Each	Metcal Part No.
Hoof and Knife Tip Cartridges for Drag Soldering			
.650 x .060 (16.51 x 1.52), Mini Hoof, 600°F	389-1046-ND	43.78	SMTC-0167
.650 x .190 (16.51 x 4.83), Knife, 700°F	389-1048-ND	43.78	SMTC-1161
.650 x .060 (16.51 x 1.52), Mini Hoof, 700°F	389-1049-ND	43.78	SMTC-1167

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each*	Metcal Part No.
500°F Tip Cartridges for Talon® Series Tweezer Handpiece				
0.250 (6.350)	Beveled Blades	389-1025-ND	104.37	TATC-502
0.620 (15.748)	Beveled Blades	389-1026-ND	104.37	TATC-503
0.810 (20.574)	Beveled Blades	389-1027-ND	104.37	TATC-504
600°F Tip Cartridges for Talon® Series Tweezer Handpiece				
0.050 (1.270)	Angled Viper Tip	389-1086-ND	99.09	TATC-608
0.200 (5.080)	Fine Point Tip	389-1085-ND	99.09	TATC-601
0.250 (6.350)	Beveled Blades	389-1028-ND	104.37	TATC-602
0.620 (15.748)	Beveled Blades	389-1029-ND	104.37	TATC-603
0.810 (20.574)	Beveled Blades	389-1030-ND	104.37	TATC-604

Note: TATC tip cartridges are for use with Talon only. * Sold in pairs

PS-800 Soldering System

Features:

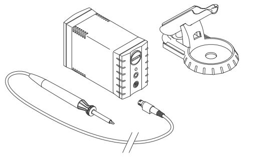

- The PS-800 Soldering System is compact for repetitive manual soldering and touch-up • Utilizes SmartHeat® Technology • Requires no calibration • Uses replaceable heater tips rather than cartridges • Perfect for lead-free hand soldering

PS800 Soldering System includes:

- Power Supply with Power Cord
- Hand-Piece with Cord
- Workstand with Sponge and Cartridge Removal Pad

Description	Digi-Key Part No.	Price Each	Metcal Part No.
PS-800 Soldering System	389-1095-ND	199.00	PS-800
PS-800 Soldering Handle with Coil Assembly	389-1096-ND	70.68	PS-HC1
PS-800 Workstand with Sponge	389-1097-ND	32.98	PS-WSK1

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	Metcal Part No.
650 Series				
.06 (1.5)	Chisel 60°	389-1098-ND	8.48	PHT-650325
.07 (1.78)	Chisel Fine 30°	389-1099-ND	7.54	PHT-650335
.10 (2.5)	Chisel 30°	389-1100-ND	7.54	PHT-651355
.12 (3.0)	Chisel 30°	389-1101-ND	9.42	PHT-651367
.20 (5.0)	Chisel 30°	389-1102-ND	8.48	PHT-651384
.016 (0.4)	Conical 60°	389-1103-ND	8.48	PHT-652017
.016 (0.4)	Conical Fine	389-1104-ND	8.48	PHT-652035
.04 (1.0)	Conical Fine	389-1105-ND	9.42	PHT-652057
.016 (0.4)	Conical Fine Bent	389-1106-ND	8.48	PHT-652327
.02 (0.5)	Conical Fine Bent 30°	389-1107-ND	8.48	PHT-652335
.04 (1.0)	Conical Long	389-1108-ND	9.42	PHT-653067
.02 (0.5)	Minihoof 60°	389-1109-ND	9.42	PHT-654607
750 Series				
.04 (1.0)	Chisel Fine 30°	389-1110-ND	8.48	PHT-750315
.06 (1.5)	Chisel 60°	389-1111-ND	8.48	PHT-750325
.07 (1.78)	Chisel Fine 30°	389-1112-ND	7.54	PHT-750335
.10 (2.5)	Chisel 30°	389-1113-ND	7.54	PHT-751355
.12 (3.0)	Chisel 30°	389-1114-ND	9.42	PHT-751367
.20 (5.0)	Chisel 30°	389-1115-ND	8.48	PHT-751384
.016 (0.4)	Conical 60°	389-1116-ND	8.48	PHT-752017
.016 (0.4)	Conical Fine	389-1117-ND	8.48	PHT-752035
.04 (1.0)	Conical Fine	389-1118-ND	9.42	PHT-752057
.016 (0.4)	Conical Fine Bent	389-1119-ND	8.48	PHT-752327
.02 (0.5)	Conical Fine Bent 30°	389-1120-ND	8.48	PHT-752335
.02 (0.5)	Minihoof 60°	389-1121-ND	9.42	PHT-754607

SP200 Soldering System

Features:

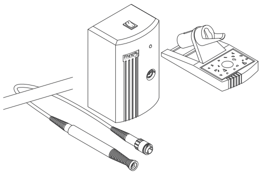

The SP200 is an ideal choice for thru-hole soldering and surface mount touchup. As with all Metcal SmartHeat® systems, there is no calibration required.

Replacement Handle Includes:

- Handle • Cord

Tips are sold separately.

Description	Digi-Key Part No.	Price Each	Metcal Part No.
Soldering System, 115VAC	389-1031-ND	268.53	SP200-11
Replacement Solder Handpiece for SP200	389-1032-ND	61.80	SP-HC1
Cartridge Removal Pad	389-1044-ND	6.18	AC-CP2

Tip Dimensions Inches (mm)	Description	Digi-Key Part No.	Price Each	Metcal Part No.
500°F Soldering Tip Cartridges for SP200 Series				
.125 (3.175)	Hoof - Drag	389-1035-ND	25.28	SSC-539A
.050 (1.270)	Mini Hoof	389-1037-ND	25.28	SSC-567A
.040 (1.020)	Conical Sharp	389-1033-ND	15.70	SSC-501A
.020 (0.510)	Conical Sharp	389-1034-ND	15.70	SSC-522A
.016 (0.406)	Bevel	389-1036-ND	15.70	SSC-545A
600°F Soldering Tip Cartridges for SP200 Series				
.100 (2.540)	Chisel	389-1040-ND	15.70	SSC-636A
.070 (1.780)	Chisel	389-1041-ND	15.70	SSC-637A
.060 (1.520)	Chisel	389-1042-ND	15.70	SSC-638A
.040 (1.020)	Conical Sharp	389-1051-ND	14.91	SSC-601A
.040 (1.020)	Chisel	389-1039-ND	15.70	SSC-625A
.020 (0.510)	Sharp Bent	389-1053-ND	14.91	SSC-654A
.020 (0.510)	Conical Sharp	389-1038-ND	15.70	SSC-622A
.016 (0.406)	Bevel	389-1043-ND	15.70	SSC-645A
.020 (0.510)	Sharp Bent	389-1052-ND	14.91	SSC-626A
700°F Soldering Tip Cartridges for SP200 Series				
.100 (2.540)	Chisel	389-1058-ND	14.91	SSC-736A
.070 (1.780)	Chisel	389-1059-ND	14.91	SSC-737A
.040 (1.020)	Conical Sharp	389-1054-ND	14.91	SSC-701A
.040 (1.020)	Chisel	389-1056-ND	14.91	SSC-725A
.020 (0.510)	Conical Sharp	389-1055-ND	14.91	SSC-722A
.020 (0.510)	Sharp Bent	389-1061-ND	14.91	SSC-754A
.020 (0.510)	Sharp Bent	389-1057-ND	14.91	SSC-726A
.016 (0.406)	Bevel	389-1060-ND	14.91	SSC-745A

WRS3000X Soldering/Desoldering Station

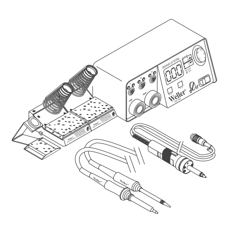

(Through Hole and SMT Repair or Rework)

Thermal Tweezers

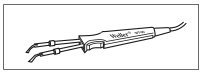

The WRS3000X combines all of the tools needed to cover most through hole and SMT repair or rework applications. The soldering tool is the powerful WSP80, featuring 300 watts of power to cover even the most difficult multi-layered applications. The desoldering tool is the DXV80. This tool features an inline design and 80 watts of power. The HAP1 Hot Air tool features a static free air stream that is heated by 100 watts of power. A full complement of nozzles are available for fine solder reflow or removing PLCC packages. The system is completely ESD safe, U.L. Approved and meets the Mil-Specs.

Features:

- Self-Contained • Closed loop controlled hand pieces • Digital display • Microprocessor control for the ultimate accuracy
- Lock-out equipped • Temperature setback • Separate control of air flow rate, time and temperature • Three independently controlled channels • Burn-resistant cord • F/C degree selector
- Full range of tips for rework and repair available • Hot air and desoldering applications can be run without any separate switching
- Temperature Range 150°F ~ 850°F (177°C ~ 454°C)

Note: *Tweezers will also work with EC series units.*

Description	Digi-Key Part No.	Price Each	Weller Part No.
Rework Station with Hot Air and Irons	WRS3000X-ND	1669.14	WRS3000X
SMT Thermal Tweezers w/Stand	0053313399-ND	183.57	WTA50SET
Tip, 1mm Thermal Tweezers, 2 pc.	0054414199-ND	14.97	WT1
Tip, 3mm Thermal Tweezers, 2 pc.	0054414699-ND	14.97	WTA2
Tip, 6mm Thermal Tweezers, 2 pc.	0054414799-ND	14.62	WTA3
Tip, 12.5mm Thermal Tweezers, 2 pc.	0054414399-ND	27.26	WT4
Tip, 18.5mm Thermal Tweezers, 2 pc.	0054414499-ND	27.26	WT5

WMRS Soldering and Rework Station

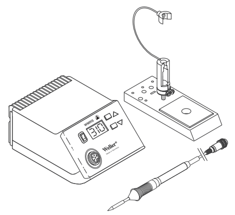

The Weller WMRS was specially developed for industrial production applications, rework and repair, and laboratory use. The WMRP soldering pencil has an extremely short heat-up time (approx. 2 seconds from standby to setpoint temperature). Changing soldering tips is quick, easy, and most importantly requires no tools. The small lightweight (just 75g) construction of the WMRP soldering pencil makes work both easy and comfortable. The built-in Stop+Go function in the safety rest reduces the temperature of the tip when the pencil is inserted.

Specifications:

• Voltage: 120V (input) 24V (output) • Footprint: 6.5 x 4.5 x 4.0 inches (65 x 115 x 102 mm) • Power Consumption: 80W nominal • Temperature Range: 150°F ~ 850°F (50°C ~ 450°C) • Accuracy of soldering pencil: +/- 9°F (+/-5°C) • Temperature Stability: +/- 9°F (+/-5°C) • ESD safe

Description	Digi-Key Part No.	Price Each	Weller Part No.
Soldering and Rework Station	WMRS-ND	465.00	WMRS
Tip, RT1 Needle Tip	0054460199-ND	30.00	0054460199
Tip, RT2 0.4mm Point Tip	0054460299-ND	30.00	0054460299
Tip, RT3 1.3mm Chisel Tip	0054460399-ND	30.00	0054460399
Tip, RT4 1.5mm Chisel Tip	0054460499-ND	30.00	0054460499
Tip, RT5 0.8mm Chisel Bent, 30°	0054460599-ND	30.00	0054460599
Tip, RT6 1.2mm Round Bevel, 45°	0054460699-ND	30.00	0054460699
Tip, RT7 2.2mm Knife Tip, 45°	0054460799-ND	31.50	0054460799

WRS1002X Electronically Controlled Desoldering Station

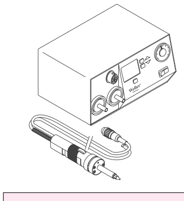

Features:

- Vacuum is generated with a self-contained pump • 80 watts of power for faster heat up and better performance • A wide range of DX Series desoldering tiplets available • Digital process for exact temperature set, you control the process • 80 watt desoldering pencil with internal disposable solder collection tube
- Safely and efficiently removing through hole components from PCB's
- Vacuum delay feature prevents clogging

Description	Digi-Key Part No.	Price Each	Weller Part No.
Digital Desoldering Station 80W	WRS1002X-ND	849.75	WRS1002X
Collection Tube for DXV80	0058741815-ND	6.75	0058741815
Desolder Tip, for DXV80 1.9 x 0.7mm	DX110-ND	12.09	DX110
Desolder Tip, for DXV80 2.5 x 0.7mm	DX111-ND	12.09	DX111
Desolder Tip, for DXV80 2.3 x 1.0mm	DX112-ND	12.09	DX112
Desolder Tip, for DXV80 2.5 x 1.2mm	DX113-ND	12.09	DX113
Desolder Tip, for DXV80 3.3 x 1.8mm	DX114-ND	12.09	DX114
Desolder Tip, for DXV80 1.9 x 0.7mm	DX115-ND	12.09	DX115
Desolder Tip, for DXV80 2.7 x 1.2mm	DX116-ND	12.09	DX116

WES51 and WESD51 Soldering Stations

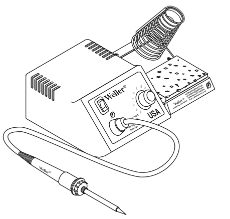

Features and Benefits:

- Cordless temperature lockout to prevent operators from raising the temperatures to levels higher than specified for the board or component. Gives you control over the process • Cordless Tip Temperature Calibration, which provides the user with the capability of resetting station temperature readings to variations in tip sizes and styles • Quick heat-up and temperature recovery allows continuous production soldering • Slim, comfortable hand piece reduces operator fatigue • Accuracy within 9°F (5°C) • Temperature Range: 350°F ~ 850°F (177°C ~ 454°C)
- ESD Safe to protect sensitive components
- Uses ET Series Tips

WES51-ND	Analog 50 Watt Soldering Station	**$122.97**
WESD51-ND	Digital 50 Watt Soldering Station	**$164.49**
PES51-ND	Replacement Iron	**$36.77**
BA60-ND	Replacement Barrel Nut Assembly for PES50 & PES51	**$6.02**

WS System Calibration Unit

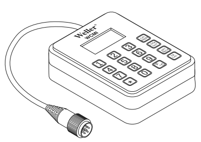

Features:

- Designed to work with WS series soldering stations • Allows user to calibrate tip temperature of soldering iron to outside temperature reference • Enables timer setback mode (allows station to set back to 350°F (177°C) after period of inactivity) • Insert fixed temperature into station and turning off front panel control knob • Switching station display between °F or °C • Resetting station electronics to original factory calibration • Unit uses four "AA" alkaline batteries for power (included) • 3 month normal life expectancy of batteries • 16 button keypad • Three digit LED display • Connectors to attach to soldering station and iron

WCB1-ND	Calibration Unit	**$153.47**

Digital Soldering Stations

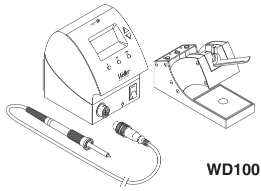

WD1001

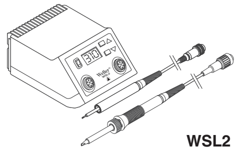

WSL2

WD1001 Includes: WD1 power unit, WMP soldering pencil, WDH20 Iron stand and sponge, NT1 supplied tip

Features: • 3 "radio buttons" allows you to pre-set frequently-used temperature settings • Setback, lockout, temperature, window, F/C switching, standby, auto-off time • Large high contrast LCD display displays more information at a glance • Micro pencil with short tip to grip (37mm) puts you close to the work • High output pencil allows you to work with lead-free solder • Iron stand has adjustable tilt angle in 4 positions ranging from 30 ~ 80 degrees • ESD safe to protect sensitive components
• Temperature Range: 150°F ~ 850°F • Temperature Accuracy: +/- 9°F ~ +/- 5°C

WSL2 Includes: WSL2PU power unit, WMP soldering pencil, WMPH stand and sponge, WSP80 soldering pencil WHP81 stand and sponge.

Replacement Tips for WMP

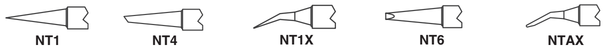

Description	Digi-Key Part No.	Price Each	Weller Part No.
Digital Solder Station 85 Watt with WMP	WD1001-ND	285.00	WD1001
Dual Digital Solder Unit 160 Watt without Iron*	WD2-ND	274.50	WD2
Iron Stand with Sponge for WMP	WDH20-ND	37.50	WDH20
DualDigital 190 Watt with 2 Irons	WSL2-ND	463.50	WSL2
Soldering Iron 65 Watt with NT1 Tip	WMP-ND	104.51	WMP-ND

Description	Tip Dia. (mm)	Tip Length (mm)	Digi-Key Part No.	Price Each	Weller Part No.
			Replacement Tips		
Micro	0.25	7.40	NT1-ND	9.23	NT1
Micro	0.25	8.45	NT1S-ND	9.23	NT1S
Round	1.20	9.90	NT4-ND	9.23	NT4
Bent Round	0.40	8.15	NT1X-ND	11.07	NT1X
Chisel	1.60	9.45	NT6-ND	9.23	NT6
Chisel	1.60	8.40	NTA-ND	9.23	NTA
Chisel	2.40	7.35	NTB-ND	9.23	NTB
Chisel	3.20	7.75	NTC-ND	9.23	NTC
Bent Chisel	1.60	8.61	NTAX-ND	11.07	NTAX

* Power Unit only. Soldering pencils and stands sold seperately.

Controlled-Output Soldering Station WTCPT Weller's Work Horse

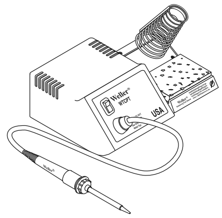

Specifications:

- Transformer powered soldering station complete with macro style, low voltage, temperature controlled soldering iron • Special "closed loop" method of controlling maximum tip temperature to protect temperature sensitive components • Power unit housing features impact resistant plastic for durability • Quick disconnect plug for soldering iron and lighted on/off switch • Separate conductor grounds iron tip and terminates at third pin of power cord • PT series soldering tips come in a variety of shapes and sizes in three standard
- Temperature Ranges: 600°F (316°C), 700°F (371°C), and 800°F (427°C) • Uses PT series tips

Description	Digi-Key Part No.	Price Each	Weller Part No.
Complete Station 24V Output	WTCPT-ND	143.58	WTCPT
Replacement Soldering Iron	TC201T-ND	75.39	TC201T

Digital Soldering Stations

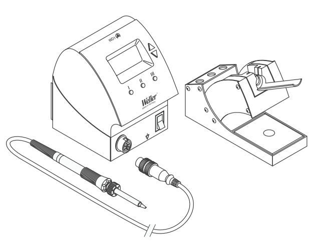

WD1000 Includes:
- WD1 power unit • WSP80 soldering pencil
- WDH10 Iron stand and sponge • LTB Supplied Tip

Features:
- 3 "radio buttons" allows you to pre-set frequently-used temperature settings • Setback, lockout, temperature, window, F/C switching, standby, auto-off time • Large high contrast LCD display, displays more information at a glance
- High output pencil allows you to work with lead-free solder • Iron stand has adjustable tilt angle in 4 positions ranging from 30 ~ 80 degrees
- ESD safe to protect sensitive components
- Temperature Range: 150°F ~ 850°F
- Temperature Accuracy: +/- 9°F ~ +/- 5°C

Replacement Tips for WSP80

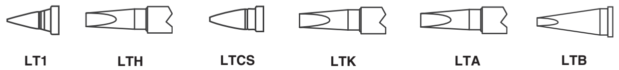

Description	Digi-Key Part No.	Price Each	Weller Part No.
Digital Solder Station 85 Watt with WSP80	WD1000-ND	285.00	WD1000
Digital Solder Unit 85 Watt without Iron*	WD1-ND	178.50	WD1
Iron Stand with Sponge for WSP80	WDH10-ND	37.50	WDH10
Replacement Solder Pencil, 80 Watt	WSP80-ND	104.51	WSP80
Iron Stand for WSP80 Series	WPH81-ND	23.75	WPH81
Barrel Nut Assembly for WSP80	WS102-ND	6.50	WS102

Description	Tip Dia. (mm)	Tip Length (mm)	Digi-Key Part No.	Price Each	Weller Part No.
			Replacement Tips		
Round	0.25	10.90	LT1-ND	4.95	LT1
Chisel	0.8	10.90	LTH-ND	4.95	LTH
Round	3.2	10.90	LTCS-ND	4.95	LTCS
Chisel	1.2	18.50	LTK-ND	4.95	LTK
Chisel	1.6	9.70	LTA-ND	4.95	LTA
Chisel	2.4	10.90	LTB-ND	4.95	LTB

* Power Unit only. Soldering pencils and stands sold seperately.

0051502699 Circuit Board Vise

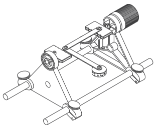

- Complete work center for placing, soldering and desoldering printed circuit boards • Spring clamps will hold work piece in place securely
- Rotates through 360°, allowing work performance at any convenient angle • Adjustable features allow handling of variety of circuit board sizes
- Maximum surface: 6-1/4"/160 mm x 9-1/8"/235 mm
- 0051502699 is ESD SAFE

Description	Digi-Key Part No.	Price Each	Weller Part No.
Circuit Board Vise	0051502699-ND	48.00	0051502699

Vacuum Pickup Tool

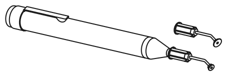

Digi-Key Part No.	Price Each	Weller Part No.
WLSK200-ND	47.37	WLSK200

Professional Soldering Irons

WP25, WP30, WP35 Series Irons

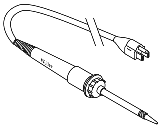

Features:

• Fixed temperature units • Ideal for a wide variety of electronic tasks • Interchangeable heater elements - Single handle plus three different heating elements gives the user a trio of irons for different jobs • Quick change knurled collar makes changing heater simple • Lightweight handle with cushioned grip • For additional safety, all irons come with 3-wire power cord • Irons use ST series iron plated tips for long life and greater soldering efficiency • UL Listed

• *Important: Use only Weller tips • ST series tips*

Description	Digi-Key Part No.	Price Each	Weller Part No.
Soldering Iron with ST3 Tip, 25 Watt*	WP25-ND	35.99	WP25
Soldering Iron with ST3 Tip, 30 Watt*	WP30-ND	38.90	WP30
Soldering Iron with ST3 Tip, 35 Watt*	WP35-ND	45.30	WP35
Soldering Iron Stand For WP Series	PH60-ND	22.37	PH60
Knurled Tip Retaining Nut	KN60-ND	2.91	KN60

* Soldering Iron Stand is sold separately.

Soldering Irons

Specifications:

• Specifically designed for use at electrostatic free work stations • Non-burnable silicon rubber cord • Lightweight, high impact plastic handle • Blue plastic meets requirements for ESD, Electrostatic Dissipative Materials • Uses Weller EM series tips made of copper with heavy iron, nickel and chromium plating for long life • UL listed

NOTE: EC1503B, EC1302B and EC1201A work with DEC1001 and EC1002.

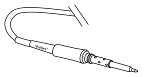

EC1503B:
• Tool designed for difficult applications such as multilayer boards, large heat output from small tool • Large tip iron for high wattage application

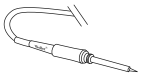

EC1302B:
• Micro-soldering tool • Stainless steel heater element construction • Fine tip iron for light duty applications

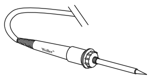

EC1201A:
• General purpose soldering tool • Stainless steel plug-in heater element construction • General purpose iron for mid-range applications

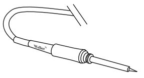

PES50:
• General purpose soldering tool • Stainless steel plug-in heater element construction • General purpose iron for mid-range applications

Description	Digi-Key Part No.	Price Each	Weller Part No.
42W Soldering Iron with EMA Tip	EC1503B-ND	123.69	EC1503A
20W Iron with EPH 101 Tip	EC1302B-ND	106.35	EC1302A
40W Soldering Iron with ETA Tip	EC1201A-ND	106.35	EC1201A
50W Soldering Iron with ETA Tip	PES50-ND	36.77	PES50
Replacement Sponge	TC205-ND	1.01	TC205

Replacement Tips for Irons

Tip Dim. (mm)	Description	Digi-Key Part No.	Price Each	Weller Part No.
EM Series Tips for EC1503B Iron				
1.57	Chisel Tip	EMA-ND	12.45	EMA
.38	Conical Tip	EMD-ND	12.45	EMD
PT Series Tips for TC201T Iron				
1.57	Screwdriver, 700°F (371°C)	PTA7-ND	4.20	PTA7
1.57	Screwdriver, 800°F (427°C)	PTA8-ND	4.20	PTA8
3.18	Screwdriver, 700°F (371°C)	PTC7-ND	4.20	PTC7
3.18	Screwdriver, 800°F (427°C)	PTC8-ND	4.20	PTC8
.79	Conical Flat, 700°F (371°C)	PTF7-ND	4.20	PTF7
.79	Conical Flat, 800°F (427°C)	PTF8-ND	4.20	PTF8
.38	Long Conical, 700°F (371°C)	PTS7-ND	4.20	PTS7
.38	Long Conical, 800°F (427°C)	PTS8-ND	4.20	PTS8
EPH Series Tips for EC1302B Iron				
.38	Micropoint Tip	EPH101-ND	4.95	EPH101
1.57	Screwdriver Tip	EPH106-ND	4.95	EPH106
Replacement Barrel Nut Assort. for EPH Tip		EC231-ND	8.16	EC231
ET Series Tips for EC1201A				
1.57	Screwdriver Tip	ETA-ND	4.65	ETA
2.36	Screwdriver Tip	ETB-ND	4.65	ETB
.79	Screwdriver Tip	ETH-ND	4.65	ETH
.79	Conical Tip	ETP-ND	4.65	ETP
.40	Single Flat Tip	ETU-ND	4.65	ETU
.80	Long Conical Tip	ETO-ND	4.65	ETO
Tips for Professional Soldering Irons — ST Series Tips for WP25, WP30, WP35 Irons				
1.57	Screwdriver Tip	ST1-ND	4.35	ST1
4.65	Screwdriver Tip	ST4-ND	4.35	ST4
.79	Single Flat Tip	ST5-ND	4.35	ST5
.79	Screwdriver Tip	ST6-ND	4.35	ST6

Flux and Scrub-It® Solvent Dispensers

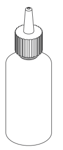

Flux Dispensers: • Both static safe and standard hold 2 ounces • Avoid spills and waste and place flux precisely where needed • Squeeze bottles dispense one drop of liquid resin, flux, oil solvent through stainless steel needles • Static dissipative models protect static-sensitive components

Scrub-It® Solvent Dispensers: • Squeeze dispenser to distribute solvent through brush • For cleaning printed circuit boards and other connections • No mess, no waste • Available with nylon bristles or horsehair for static-safe applications • Dispenser holds 2 ounces

Description	Digi-Key Part No.	Price Each	Weller Part No.
Flux Dispenser, 0.020" (.51mm) Needle	FD2-ND	2.69	FD2
Scrub-It Bottle, Nylon Bristle	SD74-ND	9.15	SD74
Scrub-It Bottle, Horsehair ESD Safe	SD74H-ND	9.15	SD74H

Hot Air Rework Station and Nozzles

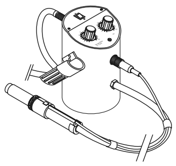

Features:

• Self-contained low cost hot air station with 700 watts of heating power to handle most bench top rework jobs • Extremely compact size uses less space on your rework bench • Temperature and air flow are controlled on the front panel - allows you to make settings quickly and easily

• Air flow can be activated by either a finger switch on the hand piece or via an optional foot switch

• Built-in hand piece holder saves bench space

Description	Digi-Key Part No.	Price Each	Weller Part No.
Self-Cont. Hot Air Station, 120V	WHA300-ND	791.81	WHA300
Hot Air Nozzle, 44 PIN PLCC	0058736814-ND	61.91	0058736814
Hot Air Nozzle, 84 PIN PLCC	0058736833-ND	77.64	0058736833
Hot Air Nozzle, 20 PIN PLCC	0058736839-ND	61.91	0058736839
Hot Air Nozzle, 68 PIN PLCC	0058736804-ND	61.91	0058736804
Hot Air Nozzle, 14 PIN SOIC-SO8	0058736843-ND	61.91	0058736843
Hot Air Nozzle, 20 PIN SOIC	0058736842-ND	61.91	0058736842
Hot Air Nozzle, SOT23	0058736870-ND	61.91	0058736870

Cordless Soldering Irons and Tips

Features:

• Patented soldering tool has a catalytic converter that provides a powerful yet safe flameless combustion • Safety cut-off switch when cap replaced • Two easily interchangeable screw-in tips are available

• Butane not included (*Butane is not sold by Digi-Key)*

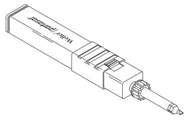

35 Watts

Description	Digi-Key Part No.	Price Each	Weller Part No.
Cordless Soldering Iron	C1C-ND	13.61	C1C
Chisel Tip, 3.175mm	C12-ND	2.01	C12
Conical Tip, 3.175mm	C13-ND	2.01	C13

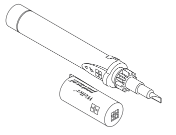

Features:
- Gives the ultimate in portable power and convenience for all soldering jobs
- Provides 25 ~ 75 watts of power
- Adjustable temperatures up to 850°F
- Refueled with standard butane refills
- Unit lasts for up to an hour of continuous use
- Butane not included (*Butane is not sold by Digi-Key)*

75 Watts

Description	Digi-Key Part No.	Price Each	Weller Part No.
Cordless Soldering Iron with PPT6 Tip, 2.4mm	P2C-ND	33.48	P2C
Single Flat, Solder Tip, 1.0mm	PPT1-ND	8.07	PPT1
Single Flat, Solder Tip, 2.4mm	PPT2-ND	8.07	PPT2
Single Flat, Solder Tip, 4.8mm	PPT4-ND	7.65	PPT4
Double Flat, Solder Tip, 1.0mm	PPT5-ND	8.07	PPT5
Double Flat, Solder Tip, 2.4mm	PPT6-ND	8.07	PPT
Hot Knife Tip	PPT10-ND	7.83	PPT10
Hot Air Tip	PPT9-ND	7.83	PPT9
Hot Air Tip with Deflector	PPT13-ND	12.54	PPT13

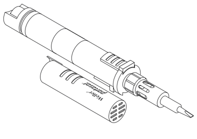

Features: • Self-igniting portable butane heat tool • Anti-static soldering • "Auto Switch" safety shut-off iron plated tips, and built-in butane filter • Rugged stainless-steel body provides up to 125 watts of power • Adjustable temperature up to 1,076°F • Fuel level is clearly visible through a window on the body of the tool • Butane not included (*Butane is not sold by Digi-Key)*

125 Watts

Description	Digi-Key Part No.	Price Each	Weller Part No.
Cordless Soldering Iron	PSI100C-ND	58.31	PSI100C
Single Flat, Solder Tip, 1.0mm	PSI1-ND	10.31	PSI1
Single Flat, Solder Tip, 2.4mm	PSI2-ND	10.31	PSI2
Single Flat, Solder Tip, 3.2mm	PSI3-ND	10.31	PSI3
Single Flat, Solder Tip, 4.8mm	PSI4-ND	10.31	PSI4
Single Chisel, Solder Tip, 1.0mm	PSI5-ND	10.31	PSI5
Double Flat, Solder Tip, 2.4mm	PSI6-ND	10.31	PSI6
Double Flat, Solder Tip, 3.2mm	PSI7-ND	10.31	PSI7
Double Flat, Solder Tip, 4.8mm	PSI8-ND	10.31	PSI8
Hot Blower Tip	PSI9-ND	10.31	PSI9
Hot Knife Tip	PSI10-ND	10.31	PSI10

OK Industries
Division of Jonard Industries Corp.

Benchtop Fume Absorber

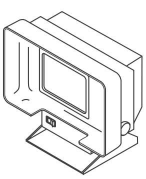

Aerodynamic hood design effectively draws solder fumes away from the work area. Carbon filters traps up to 80% of the flux fumes. Compact size and adjustable for convenient placement near work area. Optional articulating arm with bench mount clamp converts benchtop fume absorber to suspended fume absorber for positioning directly over the work area. An inexpensive alternative to individual fume extraction.

Description	Digi-Key Part No.	Price Each
Benchtop Fume Absorber, 115V with 3 Filters	K416-ND	101.20
Benchtop ESD Safe Fume Absorber, – 115V with 3 Filters	K417-ND	123.00
Articulating Arm Assembly Kit w/Bench Clamp	K418-ND	167.65
Replacement Carbon Filter Set, 3 Pcs.	K419-ND	20.43
Benchtop Fume Absorber with Articulating Arm, 115V	K498-ND	228.65
Benchtop ESD Safe Fume Absorber – with Articulating Arm, 115V	K499-ND	273.62

Vacuum Desolder Pumps

Features durable corrosion resistant plastic construction and corrosion treated springs with uniform reset pressure and cushioned shock reduction. Fitted with replaceable teflon tips.

Fig. 1

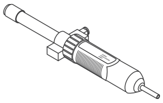

Fig. 2

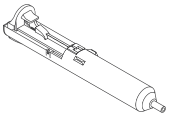

Description	Digi-Key Part No.	Price Each
Fig. 1		
High-Vac Desoldering Pump with Tip, Blue Repl. Teflon Tip for K412-ND, K500-ND	K412-ND K413-ND	18.75 3.00
ESD Safe Desoldering Pump with Tip, Black Repl. ESD Safe Teflon Tip for K414-ND	K414-ND K415-ND	23.75 5.00
Fig. 2		
Desoldering Pump	K500-ND	11.83

TECHCON SYSTEMS

Air Powered Syringe Assemblies

Air powered assemblies include syringe barrel and tip caps, air stoppers and end plugs for safety when transporting filled syringes.

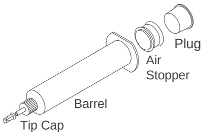

K429-ND	30cc-35cc (pkg. of 10 assemblies)	**$16.66**

Dispensing Tips

These tips are molded in high density polyethylene with color coding indicating tip inside diameter.

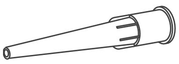

K435-ND	.063" (1.60mm) ID Tan Color (pkg. of 50)	**$31.33**
K436-ND	.047" (1.19mm) ID Grey Color (pkg. of 50)	**$31.33**
K437-ND	.033" (.84mm) ID Green Color (pkg. of 50)	**$31.33**
K438-ND	.024" (.61mm) ID Pink Color (pkg. of 50)	**$31.33**
K439-ND	.016" (.41mm) ID Blue Color (pkg. of 50)	**$31.33**

Paladin Tools®

Desoldering Pump

Desoldering tool removes solder with simple push-button operation. A conductive tool for anti-static operation. Replaceable tips available.

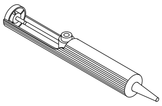

PAL1700-ND	Desoldering Pump	**$16.99**
PAL2712-ND	Replacement Tip	**$5.49**

CHIP QUIK®

SMD Removal Kits

CHIP QUIK SMD rework products are designed as a low cost way to rework SMD components including QFP and PLCC packages, with very low temp. (300°F). It virtually eliminates damaged pads and circuitry or lost boards due to heat damage. SMD1 contains everything needed for removing SMD components with either convection (hot air) or conduction (solder iron). Use SMD16, SMD32, and SMD291 for larger jobs which require more CHIP QUIK material and flux. SMD2000 kit is a complete Solder/Desolder rework kit for safely removing SMD components, cleaning the pads, placing component and reapplying solder safely with low operating temperatures Approved by many top industry PC board manufacturers for reworking faulty components, without the need for specialized solder equipment.

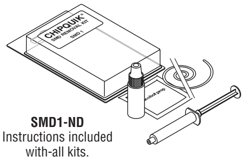

SMD1-ND
Instructions included with-all kits.

CHIP QUIK removal alloy-no lead formula has been tested for rework on PC Boards that were manufactured with lead and no-lead solders with excellent results on both. It has also been successfully tested for SMD removal on all the major no-lead solders that are presently available in the industry.

SMD2000 Contents (In durable plastic case): • CHIP QUIK Removal Alloy SMD 4.5 with instructions • Solder Paste: No clean 63/37 rework solder paste with flux in 1cc syringe with nozzle and cap (trial size) • Solder: 3 feet 63/27 2% silver .031 inches • Chip Quik Paste Flux: No clean flux in 1cc syringe with nozzle and cap used for solder/desolder • Liquid Flux Remover/Cleaner: 5cc container with applicator (non-flammable) • Probe Kit: 4 stainless steel dental picks for SMD removal and placement • Solder Wick: No clean, 5 feet • Handi Vac: SMD pick and place tool with tips • Acid Brush: Quantity 2 • Precision Tweezers: For SMD removal and placement • Cleaning Wipes: Tight weave / low lint 4" x 4", Quantity 6 (for cleaning PC board) • Swabs: Double ended, Quantity 10 (for cleaning PC board) • Alcohol Pads: Quantity 6 (for cleaning PC board) • CHIP QUIK SMD removal and clean up instructions.

Description	Digi-Key Part No.	Price Each	CHIP QUIK Part No.
Industrial Pack Replacement Low Temp. Solder 16'	SMD16-ND	82.50	SMD16
Industrial Pack Low Temp. No Lead Solder 16'	SMD16NL-ND	97.50	SMD16NL
Industrial Pack Replacement Low Temp. Solder 32'	SMD32-ND	150.00	SMD32
Industrial Pack Low Temp. No Lead Solder 32'	SMD32NL-ND	172.50	SMD32NL
No Clean Paste Flux for Rework, 10cc Syringe	SMD291-ND	14.63	SMD291
SMD Removal Kits			
For 8-10 SMDs	SMD1-ND	15.00	SMD1
Complete Rework Kit, Contents Listed	SMD2000-ND	105.00	SMD2000

3M

Scotch™ No. 854 Polyester Tape

An opaque, cream-colored polyester tape with excellent chemical resistance in precious metal plating, especially gold

General Information: • Polyester film backing imparts excellent chemical and thermal stability • Remains flexible at -60°F (-50°C) and retains dimensional stability up to 300°F (149°C)

• **Construction:** • Backing: Polyester • Adhesive: Rubber • Color: Cream • Standard Roll Length: 72 yards (66m) • Elongation at Break: 123% • Backing Thickness: 1 mil (.02mm) • Total Tape Thickness: 2.7 mils (.065mm) • Water Vapor Transmission Rate: 1.6 gms H_20/100 square inches/24 hours (24.8 g/m^2/24 hours) • Resists many solvents found in photographic, electroplating and chemical milling processes. Hot caustics will weaken the backing after prolonged immersion

Application Ideas: • Excellent chemical resistance in precious metal plating, especially gold • Excellent results in sodium hydroxide etching of aluminum • Chemical milling • General splicing

3M85402-ND	Polyester Tape, 2" (50.8mm) wide	**$33.35**
3M85401-ND	Polyester Tape, 1" (25.4mm) wide	**$15.79**

Scotch™ No. 5414 Water Soluble Tape

Get reliable protection for your circuit boards during wave soldering with this water soluble tape • Saves time and clean-up costs by completely dissolving during in-line, aqueous cleaning operations • Biodegradable, non-toxic tape has a neutral pH and leaves no residue • Eliminates static and labor usually associated with tape removal • Packaged in a moisture impervious bag which ensures long term storage stability under extreme humidity

Construction: • Backing: PVA film • Adhesive: Water soluble synthetic adhesive • Liner: Kraft paper • Color: Hazy, transparent • Standard Roll Length: 36 yards (33m) • Tensile Strength: 6.2 pounds/inch width (115.6 N/100mm) • Total Thickness: 2.5 mils (.06mm) • Dissolution Time: 40 seconds at 140° with agitation

3M541434-ND	0.75" (19.05mm) wide	**$21.94**
3M541412-ND	0.5" (12.70mm) wide	**$24.38**

Scotch™ No. 5413 Polyimide Film Tape

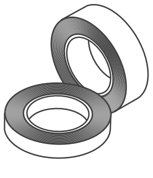

Increase your productivity with this superior performing Kapton™ polyimide film tape • Chemical and radiation resistant polyimide film is dimensionally stable at high temperatures, and flame retardant • Strong, heat resistant silicone adhesive resists adhesive transfer at elevated temperatures, providing higher productivity • Rated for continuous use at 500°F and intermittent use at 700°F, Scotch™ brand No. 5413 provides an excellent mask for high temperature powder coating • Color: Amber • Roll Length: 36 yards (33m) • Total Tape Thickness: 2.7 mils (.07mm) • Temperature Use Range: -100°F ~ 500°F (-73°C ~ 270°C)

3M541334-ND	0.75" (19.05mm) wide	**$36.64**
3M541312-ND	0.5" (12.70mm) wide	**$24.42**

Scotch™ No. 5419 Low Static Polyimide Film Tape

A translucent, polyimide film-backed silicone adhesive tape with unique and extremely low electrostatic discharge properties. For gold tab protection during wave soldering of printed circuit boards.

General Information: • 5419 tape employs a proprietary technology that results in extremely low electrostatic discharge at unwind and removal from the PWB • Polyimide film does not soften at elevated temperatures, thus, the film provides an excellent release surface at elevated temperatures.

Construction: • Backing: Polyimide • Adhesive: Silicone • Color: Gold • Standard Roll Length: 36 yards (33m) • Tensile Strength: 33 pounds/inch width (578N/100mm) • Total Tape Thickness: 2.7 mils (.07mm) • Temperature Use Range: -100°F ~ 500°F (-73°C ~ 260°C) • Insulation Resistance: >1*10^6 Ω

Applications: Mask for printed circuit boards during wave solder or solder dip process; used as release surface in fabrication of parts cured at elevated temperatures

3M591934-ND	0.75" (19.05mm) wide	**$39.37**
3M591912-ND	0.5" (12.70mm) wide	**$25.07**

Desoldering Braid

Pure copper braid construction coated with high purity rosin, quickly and thoroughly removes solder. Use Chem-Wik® or Soder-Wick® to remove components, SMDs, ICs, blobs and clean up poor solder connections. **Meets or Exceeds these Requirements:** • Mil-F-14256F Type R • NASA NHB 5300.4(3A) Reliability and Quality Assurance publication • NASA SP-5002 Soldering Electrical Connections • NASA NPC200-4 Quality publication • DOD Standard 1686B and DOD Handbook 263 • Mil-B-81705C Static Decay Rate Provision • Mil-Std-2000A

Width Inch (mm)	Length Feet (Meter)	Label Color	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
			Chem-Wik Desoldering Braid				
.030 (.76)	5 (1.52)	White	CW2-5-ND	2.82	2.54	2.05	2-5L
.030 (.76)	25 (7.62)	White	CW2-25-ND	12.26	11.04	8.89	2-25L
.050 (1.27)	25 (7.62)	Yellow	CW5-25-ND	12.26	11.04	8.89	5-25L
.075 (1.91)	25 (7.62)	Green	CW7-25-ND	12.74	11.47	9.24	7-25L
.100 (2.54)	25 (7.62)	Blue	CW10-25-ND	13.60	12.24	9.86	10-25L
.030 (.76)	100 (30.48)	Gray	2-100L-ND	48.94	44.05	35.49	2-100L
.050 (1.27)	100 (30.48)	Yellow	5-100L-ND	48.94	44.05	35.49	5-100L
.075 (1.91)	100 (30.48)	Green	7-100L-ND	50.78	45.71	36.82	7-100L
.100 (2.54)	100 (30.48)	Blue	10-100L-ND	54.42	48.98	39.46	10-100L
			Soder-Wick Desoldering Braid				
.030 (.76)	5 (1.52)	White	80-1-5-ND	3.20	2.88	2.32	80-1-5
.060 (1.52)	5 (1.52)	Yellow	80-2-5-ND	3.20	2.88	2.32	80-2-5
.080 (2.03)	5 (1.52)	Green	80-3-5-ND	3.44	3.10	2.50	80-3-5
.110 (2.79)	5 (1.52)	Blue	80-4-5-ND	3.70	3.33	2.69	80-4-5
.145 (3.68)	5 (1.52)	Brown	80-5-5-ND	4.10	3.69	2.98	80-5-5
.210 (5.33)	5 (1.52)	Red	80-6-5-ND	4.32	3.89	3.14	80-6-5
.030 (.76)	25 (7.62)	White	50-1-25-ND	14.00	12.60	10.15	50-1-25
.060 (1.52)	25 (7.62)	Yellow	50-2-25-ND	14.00	12.60	10.15	50-2-25
.080 (2.03)	25 (7.62)	Green	50-3-25-ND	14.40	12.96	10.44	50-3-25
.110 (2.79)	25 (7.62)	Blue	50-4-25-ND	15.90	14.31	11.53	50-4-25
.145 (3.68)	25 (7.62)	Brown	50-5-25-ND	17.82	16.04	12.92	50-5-25
.210 (5.33)	25 (7.62)	Red	50-6-25-ND	18.94	17.05	13.74	50-6-25
.060 (1.52)	100 (30.48)	Yellow	50-2-100-ND	54.30	48.87	39.37	50-2-100
.080 (2.03)	100 (30.48)	Green	50-3-100-ND	56.56	50.91	41.01	50-3-100
.110 (2.79)	100 (30.48)	Blue	50-4-100-ND	62.44	56.20	45.27	50-4-100
			No-Clean Soder-Wick Desoldering Braid				
.030 (.76)	5 (1.52)	White	60-1-5-ND	3.44	3.10	2.50	60-1-5
.060 (1.52)	5 (1.52)	Yellow	60-2-5-ND	3.44	3.10	2.50	60-2-5
.080 (2.03)	5 (1.52)	Green	60-3-5-ND	3.58	3.23	2.60	60-3-5
.110 (2.79)	5 (1.52)	Blue	60-4-5-ND	4.10	3.69	2.98	60-4-5
.145 (3.68)	5 (1.52)	Brown	60-5-5-ND	4.50	4.05	3.27	60-5-5
.210 (5.33)	5 (1.52)	Red	60-6-5-ND	4.86	4.38	3.53	60-6-5
.030 (.76)	10 (3.04)	White	60-1-10-ND	6.24	5.62	4.53	60-1-10
.060 (1.52)	10 (3.04)	Yellow	60-2-10-ND	6.24	5.62	4.53	60-2-10
.080 (2.03)	10 (3.04)	Green	60-3-10-ND	6.64	5.98	4.82	60-3-10
.110 (2.79)	10 (3.04)	Blue	60-4-10-ND	7.42	6.68	5.38	60-4-10
.145 (3.68)	10 (3.04)	Brown	60-5-10-ND	8.16	7.35	5.92	60-5-10

Ball Grid Array (BGA) Desoldering Braid

60-BGA-5-ND Soder-Wick BGA, No-Clean, 5 Feet (1.52 Meter)..**$4.57**
80-BGA-5-ND Soder-Wick BGA, Rosin, 5 Feet (1.52 Meter)..**$4.13**

Lead-Free SD Desoldering Braid

Soder-Wick® Lead-Free is the state of the art in desoldering technology. It is specially designed for removal of today's high temperature lead-free solders.

Features: • Fastest wicking and heat transfer • Halide free, no corrosive residues • Minimizes risk of heat damage to pads, components and PBCs • Can be used with Tin/Lead solders **Specifications**: ANSI/IPC J STD-004; MIL-F-14256 F **No-Clean Flux Specifications**: MIL-STD-883B; Bellcore TR-NWT-000078; ANSI/IPC J SF818

Width Inch (mm)	Length Feet (Meter)	Label Color	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
.060 (1.5)	5 (1.52)	Yellow	40-2-5-ND	3.46	3.12	2.51	40-2-5
.060 (1.5)	10 (3.04)	Yellow	40-2-10-ND	6.24	5.62	4.53	40-2-10
.080 (2.0)	5 (1.52)	Green	40-3-5-ND	3.62	3.26	2.63	40-3-5
.080 (2.0)	10 (3.04)	Green	40-3-10-ND	6.62	5.96	4.80	40-3-10
.110 (2.8)	5 (1.52)	Blue	40-4-5-ND	4.06	3.66	2.95	40-4-5
.110 (2.8)	10 (3.04)	Blue	40-4-10-ND	7.24	6.52	5.25	40-4-10

Lead-Free Pocket Solder

Lead-Free pocket solder is the high purity pocket-sized solder in a convenient dispenser for rework and repair.

Specifications: • Diameter 0.04" (1mm) • RMA Flux Core: 3% • Solder Composition: (Sn) 96.5% (Ag) 3.0% (Cu) 0.5% • Melting Point: 419° ~ 424°F (215° ~ 219°C)

S200-ND 125" (3.18m) **$12.93**

Presaturated Wipes

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Optic Prep High Quality Optical Cleaning and Polishing Pads (50 Pcs.)	CP410-ND	20.45	18.48	CP410
Chempad General Purpose, Lint-free, Nonabrasive Cleaning Pads (50 Pcs.)	CP400-ND	22.51	20.34	CP400
Electro-Wash® MX Plastic-Safe Cleaner 8" x 10" (25 Pcs.)	CP421-ND ***NEW!***	41.28	37.16	CP421
Screen-Prep Wet-and-Dry Wipes for Monitor Screens (25 Twin Packs)	CSP20-ND	24.14	21.81	CSP20

Unsaturated Wipes

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Lightweight Polyester Wipes, 9" x 9" (150 Pcs.)	6209-ND	53.19	48.06	6209
Polyester/Cellulose Blend, Nonwoven Wipes, 4" x 4" (1200 Pcs.)	6704CH-ND	27.82	25.14	6704
Polyester/Cellulose Blend, Nonwoven Wipes, 9" x 9" (300 Pcs.)	6709CH-ND	27.82	25.14	6709
Polyester/Cellulose Blend, Nonwoven Wipes, 12" x 13" (50 Pcs.)	6713-ND ***NEW!***	9.52	8.57	6713
Sealed Edge Microfiber Chamois™ Wipes, 8" x 8" (50 Pcs.)	7348LE-ND	112.75	101.88	7348LE

Hand Cleaner Towels-In-a-Bucket

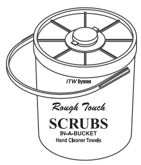

Whether you are in the shop, on the assembly line, or out in the field, these premoistened towels are ready to use for your hard working hands. The citrus based formula combined with an absorbent, non-scratching towel will loosen, dissolve, and absorb soils from your hands. Towels will not re-transfer soils back onto your skin, and will leave your hands conditioned and protected while you clean. Residue free.

Quickly Removes: • Adhesives • Caulk • Dirt • Epoxy • Grease • Grime • Lubricants • Ink and Dye • Sealants • Tar • Urethane • Wax • Asphalt • Polyurethane • Paint • Oils

For More Than Just Hands: • Tools • Plastics • Vinyl • Painted Surfaces • Metal • Work Surfaces • Equipment • Composites • Workbenches

42272-ND 72 Towels (10.5" x 12.25")..**$21.36**

Swabs and Applicators

For general purpose cleaning of magnetic heads, video heads and optical pickups.

Fig. 1 **Chamois Tip, ABS Handle**

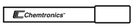

Fig. 2 **Cotton Tip, Wood Handle**

Fig. 3 **Cotton Tip, Double Ended**

Fig.	Qty. (Pcs.)	Length Inch (mm)	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
1	50	3.25 (82.55)	CC50-ND	34.45	31.13	29.05	CC50
2	100	6.00 (152.40)	CT100-ND	3.42	3.09	2.89	CT100
3	100	6.00 (152.40)	CT200-ND	3.65	3.30	3.08	CT200
	1000	6.00 (152.40)	CT2000-ND	29.37	26.54	24.77	CT2000
—	25	5.00 (127)	CS25-ND	28.24	25.52	23.82	CS25

Prototyping and Rework Dispensing Pens

CW circuitworks Conformal Coating Remover Pen

Description	Digi-Key Part No.	Price Each 1	25	Chemtronics Part No.
Conformal Coating Remover Pen for PCBs (.32 Oz.)	CW3500-ND	11.49	10.38	CW3500
Lead-Free No-Clean Flux Dispensing Pen (.32 Oz.)	CW8400-ND	6.76	6.11	CW8400
Lead-Free Flux Remover Pen (.32 Oz.)	CW9400-ND	8.53	7.71	CW9400
Flux Remover Pen for No-Clean Fluxes (.32 Oz.)	CW9100-ND	8.90	8.04	CW9100
Flux Remover Pen for Rosin Based Fluxes (.32 Oz.)	CW9200-ND	8.53	7.71	CW9200
Conductive Trace Pen, Std. Tip for Repairing PCBs..........................	CW2200STP-ND	19.57	17.69	CW2200STP
Conductive Trace Pen, Micro Tip for Repairing PCBs	CW2200MTP-ND	19.57	17.69	CW2200MTP
Overcoat Pen for Protecting Conductive Trace on PCB............................	CW3300G-ND	14.89	13.46	CW3300G
Conductive Silver Grease for Relays and Connectors	CW7100-ND	20.20	18.26	CW7100
Conductive Rubber Keypad Repair Kit	CW2605-ND	13.43	12.14	CW2605

Clean Room Products

Swabs and Applicators

Fig. 1

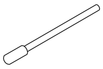

Fig. 2

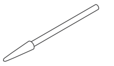

Fig. 3

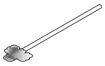

Fig. 4

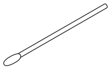

Fig.	Qty. (Pcs.)	Length Inch (mm)	Shaft Description	Tip Description	Digi-Key Part No.	Price Each 1	25	100	Chemtronics Part No.
1	500	2.80 (71.10)	.10" (2.54mm) Width ESD Shaft	.12" (3.05mm) Diameter, Knit Polyester Tip	31040ESD-ND	94.67	85.55	79.85	31040ESD
	500	2.80 (71.10)	.10" (2.54mm) Width Polypropylene Shaft	.13" (3.30mm) Diameter, Foam Polyurethane Tip	41050-ND	41.95	37.91	35.38	41050
	500	2.80 (71.10)	.10" (2.54mm) Width ESD Shaft	.13" (3.30mm) Diameter, Foam Polyurethane Tip	41050ESD-ND	85.27	77.06	71.92	41050ESD
2	500	3.20 (81.28)	.10" (2.54mm) Width Polypropylene Shaft	.11" (2.79mm) Diameter, Foam Polyurethane Tip	44070-ND	45.83	41.42	38.66	44070
	500	3.20 (81.28)	.10" (2.54mm) Width ESD Shaft	.11" (2.79mm) Diameter, Foam Polyurethane Tip	44070ESD-ND	85.27	77.06	71.92	44070ESD
	50	6.70 (170.18)	Polypropylene Shaft	Tapered Applicator Porous Polyvinylidene Fluoride Tip	CM502-ND	29.98	27.09	25.29	CM502
3	500	6.00 (152.40)	.09" (2.29mm) Width Wood Shaft	.47" (11.94mm) Diameter, Polyurethane Foam over Cotton Tip	23110-ND	119.12	107.64	100.47	23110
4	25	6.30 (160.02)	.12" (3.05mm) Width Glass Filled Nylon Shaft	.26" (6.60mm) Diameter, Knit Polyester Tip	52121-ND	13.28	12.00	11.20	52121

Flux-Core Solders

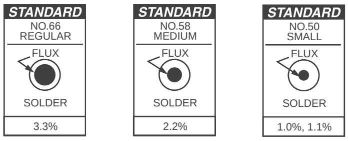

Alloy	Melting Range (°F)
Sn63Pb37	361
Sn60Pb40	361-374
Sn62Pb36Ag02	354-372
Sn43Pb43Bi14	291-325
Sn96.5Ag3.0Cu0.5	423
Sn99.3Cu0.7	440

"44" RA Solders

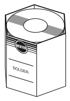

Kester "44" has virtually dominated the field of activated rosin core solders for well over four decades. An outstanding performance feature of this flux is the "instant wetting" action. The high mobility and fast spreading action of this flux results in more reliable production line soldering. Gold Label.

Description	Digi-Key Part No.	Price Each		
		1	5	10
RA Solder "44", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1100-ND	11.20	10.08	8.96
18 Gauge Solder, 3.3% Flux, .050" (1.27mm) dia.	KE1108-ND	11.60	10.44	9.28
19 Gauge Solder, 3.3% Flux, .040" (1.02mm) dia.	KE1101-ND	11.60	10.44	9.28
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1102-ND	10.80	9.72	8.64
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1109-ND	18.50	16.65	14.80
25 Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1103-ND	19.60	17.64	15.68
28 Gauge Solder, 3.3% Flux, .015" (.38mm) dia.	KE1110-ND	25.40	22.86	20.32
RA Solder "44", 63/37, 1/2 Lb. (.23 kg) Spool				
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1111-ND	9.75	8.78	7.80
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1112-ND	10.63	9.57	8.50
28 Gauge Solder, 3.3% Flux, .015" (.38mm) dia.	KE1113-ND	18.05	16.25	14.44
RA Solder "44", 60/40, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1104-ND	11.00	9.90	8.80
18 Gauge Solder, 3.3% Flux, .050" (1.27mm) dia.	KE1115-ND	11.40	10.26	9.12
19 Gauge Solder, 3.3% Flux, .040" (1.02mm) dia.	KE1105-ND	12.20	10.98	9.76
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1106-ND	10.80	9.72	8.64
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1116-ND	14.60	13.14	11.68
25 Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1107-ND	19.60	17.64	15.68
RA Solder "44", 60/40, 1/2 Lb. (.23 kg) Spool				
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1117-ND	8.88	7.99	7.10
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1118-ND	9.38	8.44	7.50

NEW! "48" RA Lead Free Solder

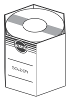

Kester "48" activated rosin flux for cored solder wire was developed for lead-free applications to enable soldering of most common metals. Performance characteristics far exceed standard RA fluxes. Kester "48" builds on the performance of its predecessor Kester "44" with "instant-action" wetting to provide fast and reliable solder joints. Kester "48" is classified as ROL1 per J-STD-004.

Description	Digi-Key Part No.	Price Each		
		1	5	10
Sn96.5Ag3.0Cu0.5, 1 Lb Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1125-ND	33.58	30.22	26.86
18 Guage Solder, 3.3% Flux, .050" (1.27mm) dia.	KE1124-ND	34.13	30.72	27.30
21 Guage Solder, 3.3% Flux, .031" (0.79mm) dia.	KE1123-ND	35.20	31.68	28.16
23 Guage Solder, 3.3% Flux, .025" (0.64mm) dia.	KE1122-ND	37.35	33.62	29.88
25 Guage Solder, 3.3% Flux, .020" (0.51mm) dia.	KE1121-ND	53.30	47.97	42.64

"405" No-Clean Cored Solder Rosin-Free Flux

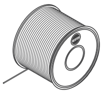

Kester "405" Rosin-Free low residue flux for cored solder wire was developed to completely eliminate R-42 sensitizers commonly found in rosin-based fluxes. The "405" flux has performance characteristics far exceeding standard No-Clean fluxes without any of the sensitizer issues. The Kester "405" is classified as type RELO per IPC ANSI/J-STD-004. 1.0% flux per weight of solder wire.

Performance Characteristics: • Nearly colorless translucent residues • Improves wetting performance • Excellent solderability and fast wetting to a variety of surface finishes • Eliminates the need and expense of cleaning • Low smoke • Low odor

Description	Digi-Key Part No.	Price Each		
		1	5	10
No Clean Solder "405", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 1.0% Flux, .062" (1.57mm) dia.	KE1517-ND	14.00	12.60	11.20
18 Gauge Solder, 1.0% Flux, .050" (1.27mm) dia.	KE1518-ND	14.50	13.05	11.60
19 Gauge Solder, 1.0% Flux, .040" (1.02mm) dia.	KE1519-ND	15.25	13.73	12.20
21 Gauge Solder, 1.0% Flux, .031" (.79mm) dia.	KE1520-ND	13.50	12.15	10.80
23 Gauge Solder, 1.0% Flux, .025" (.63mm) dia.	KE1521-ND	18.50	16.65	14.80
25 Gauge Solder, 1.0% Flux, .020" (.51mm) dia.	KE1522-ND	24.50	22.05	19.60
28 Gauge Solder, 1.0% Flux, .015" (.38mm) dia	KE1523-ND	31.75	28.58	25.40
21 Gauge Solder, 2.2% Flux, .031" (.79mm) dia.	KE1524-ND	13.50	12.15	10.80
25 Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1525-ND	24.50	22.05	19.60

"245" No-Clean Solders

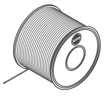

Kester "245" Low Residue Solder was developed to complement the newer generations of Low Residue Fluxes being used in the electronics industry. The use of "245" Low Residue Flux results in visually acceptable assemblies without the need for cleaning. Soldering quality and efficiency is comparable to that of a RMA flux. 1.1% flux standard, 2.2% and 3.3% for faster wetting action. Cream label.

Description	Digi-Key Part No.	Price Each		
		1	5	10
No Clean Solder "245", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 1.1% Flux, .062" (1.57mm) dia.	KE1399-ND	12.38	11.14	9.90
18 Gauge Solder, 1.1% Flux, .050" (1.27mm) dia.	KE1402-ND	14.50	13.05	11.60
19 Gauge Solder, 1.1% Flux, .040" (1.02mm) dia.	KE1403-ND	15.50	13.95	12.40
21 Gauge Solder, 1.1% Flux, .031" (.79mm) dia.	KE1400-ND	13.75	12.38	11.00
23 Gauge Solder, 1.1% Flux, .025" (.63mm) dia.	KE1404-ND	18.50	16.65	14.80
25 Gauge Solder, 1.1% Flux, .020" (.51mm) dia.	KE1401-ND	17.65	15.89	14.12
28 Gauge Solder, 1.1% Flux, .015" (.38mm) dia.	KE1405-ND	31.75	28.58	25.40

Description	Digi-Key Part No.	Price Each		
		1	5	10
No-Clean Solder "245", 63/37 1/2 Lb. (.23 kg) Spool				
25 Gauge Solder, 1.1% Flux, .020" (.51mm) dia.	KE1406-ND	16.38	14.74	13.10
28 Gauge Solder, 1.1% Flux, .015" (.38mm) dia.	KE1407-ND	18.08	16.27	14.46
No-Clean Solder "245", 63/37 1 Lb. (.45 kg) Spool				
21 Gauge Solder, 2.2% Flux, .031" (.79mm) dia.	KE1408-ND	16.75	15.08	13.40
25 Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1409-ND	24.75	22.28	19.80
No-Clean Solder "245", 63/37 1 Lb. (.45 kg) Spool				
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1410-ND	16.75	15.08	13.40

NEW! "275" No-Clean Lead-Free Solder

Kester "275" No-Clean Flux for cored solder wire was developed to provide superior wetting performance for hand soldering in the electronics industry. The use of "275" No-Clean Flux results in an extremely clear post-soldering residue without cleaning. The unique chemistry in Kester "275" was also designed to reduce spattering common to most core fluxes. Kester "275 is Classified as ROL0 per J-STD-004.

Description	Digi-Key Part No.	Price Each		
		1	5	10
Sn96.5Ag3.0Cu0.5, 1 Lb Spool				
16 Gauge Solder, 2.2% Flux, .062" (1.57mm) dia.	KE1134-ND	33.58	30.22	26.86
18 Gauge Solder, 2.2% Flux, .050" (1.27mm) dia.	KE1133-ND	34.13	30.72	27.30
21 Guage Solder, 2.2% Flux, .031" (0.79mm) dia.	KE1137-ND	35.20	31.68	28.16
23 Gauge Solder, 2.2% Flux, .025" (0.64.mm) dia.	KE1132-ND	37.35	33.62	29.88
25 Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1131-ND	42.65	38.39	34.12

"285" RMA Solders

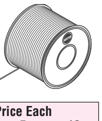

Kester "285" has been developed for the use in the electronics industry where difficult assemblies are to be soldered, but process requirements stipulate use of a mildly activated rosin flux. Kester "285" mildly activated rosin flux is classified as Type ROL1 flux under IPC ANSI/J-STD-004 Standards. Green Label.

Description	Digi-Key Part No.	Price Each		
		1	5	10
RMA Solder "285", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 2.2% Flux, .062" (1.57mm) dia.	KE1199-ND	11.20	10.08	8.96
21 Gauge Solder, 2.2% Flux, .031" (.79mm) dia.	KE1200-ND	13.40	12.06	10.72
25 Gauge Solder, 2.2% Flux, .020" (.51mm) dia.	KE1201-ND	19.80	17.82	15.84
28 Gauge Solder, 2.2% Flux, .015" (.38mm) dia.	KE1203-ND	31.75	28.58	25.40

"331" Organic Water Soluble Solder

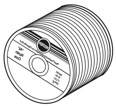

Kester "331" Organic Flux is a water soluble formula for use in flux-cored solder wire. Kester "331" flux is more effective than rosin fluxes in soldering difficult metals and allows a simple water wash for flux cleanup. The flux is more heat stable than most organic fluxes, resulting in minimal smoke and odor. The residue can be completely removed with a simple water rinse. Kester "331" is classified as type ORH1 per IPC ANSI/J-STD-004. Red Label.

Description	Digi-Key Part No.	Price Each		
		1	5	10
Water Soluble Solder "331", 63/37, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1299-ND	12.38	11.14	9.90
21 Gauge Solder, 3.3% Flux, .031" (.79mm) dia.	KE1300-ND	13.75	12.38	11.00
23 Gauge Solder, 3.3% Flux, .025" (.63mm) dia.	KE1302-ND	18.50	16.65	14.80
25 Gauge Solder, 3.3% Flux, .020" (.51mm) dia.	KE1301-ND	17.65	15.89	14.12
28 Gauge Solder, 3.3% Flux, .015" (.38mm) dia.	KE1303-ND	31.75	28.58	25.40
Water Soluble Solder "331", 60/40, 1 Lb. (.45 kg) Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1304-ND	13.88	12.49	11.10
21 Gauge Solder, 3.3% Flux, .031 (.79mm) dia.	KE1305-ND	14.38	12.94	11.50

NEW! "331" Organic Water Soluble Lead-Free Solder

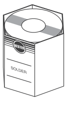

Kester "331" Organic Flux is a water soluble formula for use in flux-cored solder wire. The flux is more heat stable than most organic fluxes, resulting in minimal smoke and odor. The residue can be completely removed with a simple water rinse. Kester "331" is classified as ORH1 per J-STD-004.

Description	Digi-Key Part No.	Price Each		
		1	5	10
Sn96.5Ag3.0Cu0.5, 1 Lb Spool				
16 Gauge Solder, 3.3% Flux, .062" (1.57mm) dia.	KE1130-ND	33.58	30.22	26.86
18 Guage Solder, 3.3% Flux, .050" (1.27mm) dia.	KE1129-ND	34.13	30.72	27.30
21 Guage Solder, 3.3% Flux, .031" (0.79mm) dia.	KE1128-ND	35.20	31.68	28.16
23 Guage Solder, 3.3% Flux, .025" (0.64mm) dia.	KE1127-ND	37.35	33.62	29.88
25 Guage Solder, 3.3% Flux, .020" (0.51mm) dia.	KE1126-ND	42.65	38.39	34.12

Specialty Solders and Accessories

Description	Digi-Key Part No.	Price Each		
		1	5	10
Solid Wire Solder (No Flux), 1 Lb. (.45 kg) Spool				
16 Gauge Solder 63/37, .062" (1.57mm) dia.	KE1603-ND	12.38	11.14	9.90
21 Gauge Solder 63/37, .031" (.79mm) dia.	KE1606-ND	12.63	11.37	10.10
21 Gauge Solder 60/40, .031" (.79mm) dia.	KE1604-ND	12.63	11.37	10.10
25 Gauge Solder 60/40, .020" (.51mm) dia.	KE1605-ND	17.65	15.89	14.12
Specialty Solders, 1 Lb. (.45 kg) Spool				
21 AWG Low Temp Solder, 43/43/14, No-Clean	KE1353-ND	19.63	17.67	15.70
Bar Solder				
Lead Free Sn96.5Ag3.0Cu0.5, 1.6 Lbs. (.73 kg)	KE1135-ND† ***NEW!***	40.28	36.25	32.22
Lead Free Sn99.3Cu0.7, 1.6 Lbs. (.73 kg)	KE1136-ND† ***NEW!***	19.43	17.49	15.54
Oxide Free Solder (E-Bar), 63/37, 1 Lb. (.45 kg)	KE1600-ND	10.90	9.81	8.72
Oxide Free Solder (E-Bar), 60/40, 1 Lb. (.45 kg)	KE1601-ND	10.63	9.57	8.50
Premium Oxide Free Solder (Ultrapure), 63/37, 1.6 Lbs. (.73 kg)	KE1602-ND	18.33	16.50	14.66
Boxed Solder				
Pocket Pak Solder, No-Clean 21 Gauge 60/40	KE1801-ND	1.70	1.53	1.36
Elec. Silver Solder, RA Flux, 24 Gauge .35oz. (9.92g) Tube	KE1802-ND	.67	.61	.54

† RoHS Compliant

(Continued)

Flux-Core Solders *(cont.)*

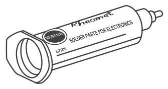

Solder Paste

Kester solder paste was developed for applications of surface mount PCBs and components. All pastes are SN63/PB37 with a mesh size of -325 to +500 (25 to 40 microns) and come in 35gm syringes for hand dispensing. R276 No-Clean formulation provides optimal performance in all types of dispensing applications. Designed for reflow practices that don't require cleaning of the PCB. R500 Water Soluble solder paste is aggressive enough to remove tenacious oxide layers and offers excellent wetting characteristics. **Pastes should be refrigerated to preserve their usable life.** ***Note:*** To ensure customer satisfaction and product integrity, pastes must be shipped overnight or 2nd Day Air only. Tips are not included.

Description	Digi-Key Part No.	Price Each 1	5	10
Plunger for 35gm Syringe....................................	KE1505-ND	1.10	.99	.88
No-Clean Paste, 35gm Syringe (R276)	KE1507-ND	42.00	37.80	33.60
Water Soluble Paste, 35gm Syringe (R500)	KE1512-ND	42.00	37.80	33.60

EasyBraid Co.

Desoldering Braid

25% cleaner than most major brands (leaving less residue on the desoldered connection). Meets the requirements of Mil-F-14256F Type R, Mil STD. 2000 and in compliance with DOD Standard 1686A. Also meets the requirements of Bellcore spec. TR-T5Y-000078 and Ipc Test Method III. Easy Braid numbers ending in AS are antistatic bobbins.

Width Inch (mm)	Length Ft. (Meter)	Label Color	Digi-Key Part No.	Price Each 1	25	Easy Braid Part No.
Quick Braid						
.025 (.64)	5 (1.52)	Silver	EB1020-ND	2.21	1.88	Q-A-5
.050 (1.27)	5 (1.52)	Gold	EB1022-ND	2.21	1.88	Q-B-5
.075 (1.91)	5 (1.52)	Green	EB1024-ND	2.28	1.94	Q-C-5
.100 (2.54)	5 (1.52)	Blue	EB1026-ND	2.51	2.14	Q-D-5
.125 (3.18)	5 (1.52)	Brown	EB1028-ND	2.66	2.26	Q-E-5
.025 (.64)	5 (1.52)	Silver	EB1084-ND	2.42	2.06	Q-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1087-ND	2.42	2.06	Q-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1090-ND	2.47	2.10	Q-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1093-ND	2.68	2.28	Q-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1096-ND	2.89	2.46	Q-E-5AS
.025 (.64)	10 (3.04)	Silver	EB1085-ND	3.71	3.16	Q-A-10
.050 (1.27)	10 (3.04)	Gold	EB1088-ND	3.71	3.16	Q-B-10
.075 (1.91)	10 (3.04)	Green	EB1091-ND	3.81	3.24	Q-C-10
.100 (2.54)	10 (3.04)	Blue	EB1094-ND	4.18	3.56	Q-D-10
.125 (3.18)	10 (3.04)	Brown	EB1097-ND	4.47	3.80	Q-E-10
.025 (.64)	25 (7.62)	Silver	EB1021-ND	9.64	8.20	Q-A-25
.050 (1.27)	25 (7.62)	Gold	EB1023-ND	9.64	8.20	Q-B-25
.075 (1.91)	25 (7.62)	Green	EB1025-ND	9.89	8.42	Q-C-25
.100 (2.54)	25 (7.62)	Blue	EB1027-ND	11.68	9.94	Q-D-25
.125 (3.18)	25 (7.62)	Brown	EB1029-ND	11.91	10.14	Q-E-25
.025 (.64)	100 (30.48)	Silver	EB1086-ND	34.05	28.98	Q-A-100
.050 (1.27)	100 (30.48)	Gold	EB1089-ND	34.05	28.98	Q-B-100
.075 (1.91)	100 (30.48)	Green	EB1092-ND	35.11	29.88	Q-C-100
.100 (2.54)	100 (30.48)	Blue	EB1095-ND	38.87	33.08	Q-D-100
.125 (3.18)	100 (30.48)	Brown	EB1098-ND	43.71	37.20	Q-E-100
One Step (RMA No-Clean)						
.025 (.64)	5 (1.52)	Silver	EB1050-ND	2.59	2.20	OS-A-5
.050 (1.27)	5 (1.52)	Gold	EB1052-ND	2.59	2.20	OS-B-5
.075 (1.91)	5 (1.52)	Green	EB1054-ND	2.66	2.26	OS-D-5
.100 (2.54)	5 (1.52)	Blue	EB1056-ND	3.06	2.60	OS-D-5
.125 (3.18)	5 (1.52)	Brown	EB1058-ND	3.53	3.00	OS-E-5
.025 (.64)	5 (1.52)	Silver	EB1099-ND	2.77	2.36	OS-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1102-ND	2.77	2.36	OS-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1105-ND	2.91	2.48	OS-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1108-ND	3.27	2.78	OS-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1111-ND	3.81	3.24	OS-E-5AS
.025 (.64)	25 (7.62)	Silver	EB1051-ND	11.66	9.92	OS-A-25
.050 (1.27)	25 (7.62)	Gold	EB1053-ND	11.66	9.92	OS-B-25
.075 (1.91)	25 (7.62)	Green	EB1055-ND	12.01	10.22	OS-C-25
.100 (2.54)	25 (7.62)	Blue	EB1057-ND	13.40	11.40	OS-D-25
.125 (7.62)	25 (7.62)	Brown	EB1059-ND	15.32	13.04	OS-E-25
.025 (.64)	10 (3.04)	Silver	EB1100-ND	4.21	3.58	OS-A-10
.050 (1.27)	10 (3.04)	Gold	EB1103-ND	4.23	3.60	OS-B-10
.075 (1.91)	10 (3.04)	Green	EB1106-ND	4.32	3.68	OS-C-10
.100 (2.54)	10 (3.04)	Blue	EB1109-ND	4.84	4.12	OS-D-10
.125 (3.18)	10 (3.04)	Brown	EB1112-ND	5.33	4.54	OS-E-10
NEW! One Step Lead-Free (RMA No-Clean) NEW!						
.025 (.64)	5 (1.52)	Silver	EB1188-ND	3.36	2.86	LF-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1189-ND	3.36	2.86	LF-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1190-ND	3.53	3.00	LF-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1191-ND	3.97	3.38	LF-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1192-ND	4.65	3.96	LF-E-5AS
One Step (RMA No-Clean)						
.025 (.64)	100 (30.48)	Silver	EB1101-ND	43.97	37.42	OS-A-100
.050 (1.27)	100 (30.48)	Gold	EB1104-ND	43.97	37.42	OS-B-100
.075 (1.91)	100 (30.48)	Green	EB1107-ND	45.33	38.58	OS-C-100
.100 (2.54)	100 (30.48)	Blue	EB1110-ND	50.67	43.12	OS-D-100
.125 (3.18)	100 (30.48)	Brown	EB1113-ND	58.30	49.62	OS-E-100
One Step 2 (Low Residue Synthetic Rosin No-Clean)						
.075 (1.91)	100 (30.48)	Green	EB1128-ND	56.55	48.13	OS2-C-100
.100 (2.54)	100 (30.48)	Blue	EB1133-ND	63.25	53.83	OS2-D-100
SEA BRAID (unfluxed)						
.025 (.64)	5 (1.52)	Silver	EB1170-ND	2.42	2.06	S-A-5AS
.050 (1.27)	5 (1.52)	Gold	EB1173-ND	2.42	2.06	S-B-5AS
.075 (1.91)	5 (1.52)	Green	EB1176-ND	2.47	2.10	S-C-5AS
.100 (2.54)	5 (1.52)	Blue	EB1179-ND	2.68	2.28	S-D-5AS
.125 (3.18)	5 (1.52)	Brown	EB1182-ND	2.89	2.46	S-E-5AS
.025 (.64)	10 (3.04)	Silver	EB1171-ND	3.71	3.16	S-A-10
.050 (1.27)	10 (3.04)	Gold	EB1174-ND	3.71	3.16	S-B-10
.075 (1.91)	10 (3.04)	Green	EB1177-ND	3.81	3.24	S-C-10
.100 (2.54)	10 (3.04)	Blue	EB1180-ND	4.18	3.56	S-D-10
.125 (3.18)	10 (3.04)	Brown	EB1183-ND	4.47	3.80	S-E-10
.025 (.64)	100 (30.48)	Silver	EB1172-ND	34.05	28.98	S-A-100
.050 (1.27)	100 (30.48)	Gold	EB1175-ND	34.05	28.98	S-B-100
.075 (1.91)	100 (30.48)	Green	EB1178-ND	35.11	29.88	S-C-100
.100 (2.54)	100 (30.48)	Blue	EB1181-ND	38.87	33.08	S-D-100
.125 (3.18)	100 (30.48)	Brown	EB1184-ND	43.71	37.20	S-E-100

Paste Flux and Liquid Flux Pens

Flux - Pen

Rosin Paste

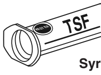

Syringe

Kester flux pens use a spring-loaded tip to dispense just the right amount of flux while preventing the flux inside from drying out. Tacky Solder Flux is a No-Clean paste flux that maintains its characteristics for up to 8 hours after dispensing and can be used in a wide range of temperature and humidity conditions. Can reflow in both air and nitrogen environments. SP244 is a mildly activated rosin paste flux designed to be used as a No-Clean formula for rework applications.

Description	Digi-Key Part No.	Price Each 1	5	10
SP44 Activated Rosin Paste Flux, 2 oz (56.70g) Can	KE1700-ND	1.28	1.15	1.02
SP44 Activated Rosin Paste Flux, 1 Lb. (.45 kg) Can	KE1701-ND	6.72	6.05	5.38
Flux Pen - Formula 186 RMA	KE1803-ND	3.70	3.33	2.96
Flux Pen - Formula 951 No-Clean	KE1804-ND	3.70	3.33	2.96
Flux Pen 2331-ZX Water-Soluble	KE1808-ND	3.70	3.33	2.96
Tacky Solder Flux No-Clean, 10gm Syringe	KE1806-ND	19.25	17.33	15.40
Tacky Solder Flux No-Clean, 30gm Syringe	KE1807-ND	57.75	51.98	46.20

Solder Sponges

Type	Size (Inch)	Replacements	Digi-Key Part No.	Price Each 1	25	50
One Hole	1.2 x 2.7	OK Ind. 45803S	EB1001-ND	.89	.76	.69
One Hole	1.55 x 2.55	Ungar 9901	EB1002-ND	.93	.80	.72
Slits	2 x 2.6	Weller MP	EB1003-ND	1.05	.90	.81
One Hole	2.2 x 3.5	Weller DS-100; EC-1000; EC-2000	EB1004-ND	1.25	1.07	.96
Multiple Holes	2.6 x 2.6	Weller WTCP; EC-3000; EC-4000; TC205	EB1005-ND	1.25	1.07	.96
One Hole	2.4 x 3.2	EDSYN Models	EB1010-ND	1.25	1.07	.96

Wipes - 100 Pre-saturated

Hand Cleaner Wipes

• Hands are cleaned quickly and effectively • Pleasant, citrus scent • Very effective on stains such as solders, greases, and glues • Ideal for production line use

IPA/DI Wipes

• 70% Isopropyl alcohol, 30% de-ionized water • General-purpose sterile cleaner that can be used through entire production process • Leaves surfaces free of contamination • Evaporates quickly after cleaning has been completed

Stencil Cleaner Wipes

• Formulated for the removal of stencil contaminants • Evaporates quickly to leave surfaces clean and dry • Odor-free • Removes contaminants cleanly and without scratching the stencil surface

Description	Digi-Key Part No.	Price Each 1	25	50	100	Easy Braid Part No.
Hand Cleaner Wipes	EB1185-ND	26.98	22.96	20.67	18.37	EBHC 100
IPA/DI Wipes	EB1186-ND	26.98	22.96	20.67	18.37	EBIPA 100
Stencil Cleaner Wipes	EB1187-ND	27.92	23.76	21.39	19.01	EBSC 100

STACO ENERGY PRODUCTS CO.

Variable AC Transformers

Cased plug-in models feature a ventilated steel case, input line cord and plug, fused NEMA rated output receptacle, and an illuminated on/off switch. They are connected for output voltage increase with a clockwise rotation, and the dials are graduated from 0-100% of the voltage setting.

Fig. 1

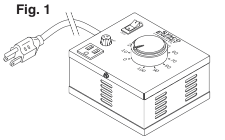

Fig. 2

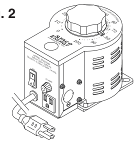

Fig.	Digi-Key Part No.	Input Voltage	Input Frequency (Hz)	Output Voltage	Output Constant Current Load		Net Weight (Lbs.)
					Max. (A)	Max. (KVA)	
1	452-1000-ND	120	60	0-132	2.5	.33	5
	452-1001-ND	120	50/60	0-140	5.0*	.70	7
2	452-1003-ND	120	50/60	0-140	10*	1.4	10 1/4
	452-1004-ND†	120	50/60	0-140	10*	1.4	10 1/4
	452-1005-ND	240	50/60	0-280	3.5*	.98	10 1/4

* Unit is fused for the constant current rating at the factory. † With Voltmeter

Digi-Key Part No.	Price Each 1	5	10	15	Staco Part No.
452-1000-ND	204.30	190.68	183.87	177.06	3PN221B
452-1001-ND	220.50	205.80	198.45	191.10	3PN501B
452-1003-ND	234.00	218.40	210.60	202.80	3PN1010B
452-1004-ND	393.30	367.08	353.97	340.86	3PN1010BV
452-1005-ND	279.90	261.24	251.91	242.58	3PN1020B

BK PRECISION
SETTING NEW STANDARDS IN PERFORMANCE & VALUE

Function Generators

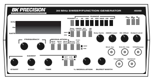
Model BK4040

FEATURES AND SPECIFICATIONS: Waveforms: Sine, Square, Triangle, ±Pulse, ±Ramp. Variable DC Offset and Duty Cycle. **Sweep LIN & LOG:** 100:1. **Frequency Counter Accuracy:** Time Base ±1 count. ***General:* Power:** 120-230VAC +10% 50/60Hz Internal jumper selectable. ***Accessories:*** BNC to Alligator Cable, Instruction Manuel. **2 Year Warranty.**

Model BK4001A: Sweep/Function Generator in 6 Ranges from 0.5Hz ~ 4MHz Range. Coarse and Fine Tuning. **Dimensions:** 10.83 x 3.6 x 11.8".

Model BK4010A: 7 Ranges from 0.2Hz ~ 2MHz Range. Coarse Tuning. **Dimensions:** 10.51 x 4.49 x 12.24".

Model BK4011A: Function Generator. 4 Digit LED Digital Display (4 digit Display Resolution). 7 Ranges from 0.5Hz ~ 5MHz Range. Variable Duty Cycle and DC Offset. Coarse and Fine Tuning. **Dimensions:** 10.51 x 4.49 x 12.24".

Model BK4017A: 5 Digit LED Digital Display (5 digit Display Resolution). 8 Ranges from 0.1Hz ~ 10MHz Range. Coarse and Fine Tuning. Extended Sweep/Modulation Input: 0 ~ 10V. **Dimensions:** 4.49 x 11.73 x 10.39".

Model BK4040A: Sweep/Function Generator with Frequency Counter. 5 Digit LED Display (5 digit Display Resolution). 8 Ranges from 0.2Hz ~ 20MHz Range. AM and FM Modulation. Burst Operation. 30MHz External Frequency Counter. Selectable Linear or Log Sweep. Extended Sweep/Modulation Input: 0 ~ 10V. Coarse and Fine Tuning. **Dimensions:** 10.51 x 4.49 x 12.24".

BK4001A-ND	4MHz Sweep/Function Generator	**$199.00**
BK4010A-ND	2MHz Function Generator	**$250.00**
BK4011A-ND	5MHz Function Generator with Digital Display	**$315.00**
BK4017A-ND	10MHz Sweep/Function Generator with Digital Display	**$399.00**
BK4040A-ND	20MHz Sweep/Function Generator with Frequency Counter and Digital Display	**$599.00**
LC-40B-ND	Carrying Case (1 Year Warranty) (For all models except BK4001A)	**$90.00**

Function and Arbitrary Waveform Generator

Model BK4070A: Function and Arbitrary Waveform Generator.

***Operating Modes:* Basic Sinewave (CW) Mode:** 0Hz ~ 21.5MHz, .01Hz steps. **Frequency Modulation (FM) Mode and Phase Modulation (PM) Mode:** Internal modulation frequency: 0Hz ~ 10kHz. External modulation frequency: DC to 35kHz. **Voltage Controlled Oscillator Mode (VCO):** Endpoint frequency: 0Hz ~ 21.5MHz, .01Hz steps. **Burst Mode:** Continuous or Triggered via Front Panes, RS232, or Ext. TTL. **Dual Tone Multi Frequency (DTMF) Generate Mode:** Dialing digits generated: 0 to 9, #, *, A, B, C, D. **Dual Tone Generation Mode:** Tone 1, Tone 2 Frequency: DC to 10kHz, 1Hz steps. **Sweep Mode:** Start/Stop frequency: 0Hz ~ 21.5MHz. **Function Generator Mode:** Waveforms: Positive/Negative Ramp, Triangle, Exponentials, Noise, Sine Repetition rate: 0Hz ~ 2MHz in 1Hz steps. **Binary Phase Shift Keying (BPSK) Mode. Amplitude Modulation (AM) Mode. Single Sideband (SSB) Mode. Frequency Shift Keying (FSK) Mode. Data Modulation Mode. Power and Voltage Measurement Mode. Dual Tone Multi Frequency (DTMF) Detect Mode. Arbitrary Waveform Generation Mode:** Vertical Resolution: 12 bits, Sample update rate: DC-40 MHz in .01Hz steps. Sample buffer depth: 32,768 points. **Pulse Generator Mode:** Frequency: 0Hz ~ 2MHz in 1Hz steps. Duty cycle: 0% ~ 100% in 1% steps. **Main Output:** Frequency: DC to 21.5MHz, .01Hz steps. Level: 4mVp-p to 10Vp-p. **External Modulation Input. RS232 port. Sync Output. Ext. Trigger/Gating/FSK/BPSK input.**

***General:* Power:** 100 ~ 240 VAC, 47-63Hz, 30W. **Display:** 2 line x 40 Character, LCD backlit. **Weight:** Approximately 3.5 lbs (1.6kg). **Dimensions:** 5.5 x 11.75 x 10.38" **Operating Temperature:** 32°F ~ 104°F (0°C ~ 40°C) ambient.

BK4070A-ND	Waveform Generator	**$1525.00**

Frequency Counter

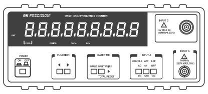

Model 1856D:

3.5GHz Multifunction Counter (Frequency, Period, Totalize) Benchtop with .56 inch high 9-Digit LED Display. **Frequency:** 0.1Hz ~ 3.5GHz **Period Characteristics: Range:** 10ns ~ 10s **Input Characteristics: Impedance:** 50 Ω ±5% **Totalize Start/Stop Input: Logic Levels:** Standard TTL Levels **Time Base Characteristics: Standard Type:** TCO **Frequency:** 10MHz **Stability:** ±1ppm ±10% line voltage variation **Temperature Stability:** ±5ppm 0°C ~ 50°C **Dimensions:** 9.4 x 3.5 x 10.6" **Power:** 115VAC ±10% 50/60Hz **Accessories Included:** Instruction Manual

BK1856D-ND	3.5GHz Benchtop Multifunction Counter	**$499.00**

Oscilloscopes

Demodulator Probe for Oscilloscopes

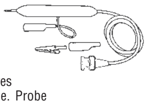

All purpose demodulator/detector probe with BNC Connector, usable with most oscilloscopes. Features include lightweight design and 1.2m coaxial cable. Probe bodies are constructed of rugged plastic and shielded. Ergonomically designed handle. **Input Voltage:** 200V Max. **HF Voltage:** 50Veff. Max. **Band Width:** 100kHz ~ 950MHz. **Input Impedance:** 5pF.

PR-32A-ND	**$64.00**

30, 60, 100 MHz Dual Trace Oscilloscope

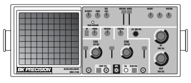
Model BK2160A

***General Specifications:* Power Source:** 115/230VAC ±10%, 50/60Hz **Accessories Supplied:** Two 10:1 Probes, Power Cord, Instruction Manual.

Model BK2120B: 30MHz Dual-Trace operation. 1 mV/div. sensitivity. AUTO-NORM triggered sweep operation with AC, TVH, TVV, line coupling and DC. Calibrated 23 step timebase with x10 magnifier. Approx. 40W. **Dimensions:** 14.5 x 7 x 17.3". **2 Year Warranty.**

Model BK2160A: 60MHz Dual-Trace 1 mV/div sensitivity. Sweep to 5 nS/div. **Main Time Base:** 23 calibrated ranges. **Delayed Time Base:** 19 calibrated ranges. Signal delay line. V-mode displays two signals unrelated in frequency. Component tester. Z-axis input. Single sweep. Beam finder. **Dimensions:** 5.3 x 13 x 16". **3 Year Warranty.**

Model BK2190B: 100MHz Dual-Trace Dual Time Base Oscilloscope. 1mV/div sensitivity. Sweeps to 5nS/division. **Main Time Base:** 22 calibrated ranges. **Delayed Time Base:** 19 calibrated ranges. Calibrated delay time multiplier. **Signal Delay Line:** 15kV accelerating voltage. **Channel 1 output:** Output Voltage: Approx. 100mV/division open circuit. Approx. 50mV/division into 50Ω. Output Impedance: Approximately 50Ω. Approx. 60W. **Dimensions:** 5.5 x 12.6 x 16.9". **3 Year Warranty.**

BK2120B-ND	30MHz	**$549.00**
BK2160A-ND	60MHz	**$1099.00**
BK2190B-ND	100MHz	**$1599.00**
LC-210A-ND	Carrying Case (1 Year Warranty) (For models BK2120B and BK2190B only)	**$99.00**

Oscilloscope Probes

Model BKPR33A: Bandwidth: 90MHz (15MHz) **Division Ratio:** x10 (x1). **Input R:** 10MΩ (1MΩ). **Input C:** 15pF (45pF). **Compensation:** 15 ~ 35pF. **Max Voltage:** 600V (200V). **Length:** 1.32 meters approx. **Connector:** BNC. **Three month warranty.**

Model BKPR-37AR: Bandwidth: 150MHz (6MHz). **Division Ratio:** x10 (x1). **Input R:** 10MΩ (1MΩ). **Input C:** 15pF (100pF). **Compensation:** 15 - 35pF. **Max Voltage:** 600V. **Length:** 1.32 meters approx. **Connector:** BNC. **Six month warranty.**

Model BKPR100A: Bandwidth: 250MHz. **Division Ratio:** x100. **Input R:** 100MΩ. **Input C:** 6.5pF. **Compensation:** 10 ~ 35pF. **Max Voltage:** 1200V. **Length:** 1.37 meters approx. **Connector:** BNC. **Six month warranty.**
NOTE: Specifications in ( ) refer to x1 position.

BKPR-33A-ND	**$34.95**
BKPR-37AR-ND	**$49.00**
BKPR-100A-ND	**$67.00**

DC Power Supplies

Regulated 28A DC Power Supply

Models BK1689, BK1690: Overload protection, High RFI stability, Multiple DC output terminals. ***Features:* Output Voltage:** DC 1 ~ 15V Variable. **Output Current:** 28A (at 13.8V). **Ripple and Noise:** 5mV (peak to peak). **Line Regulation:** 5mV (± 2% Load). **Load Regulation:** 50mV (0 ~ 100% Load).

BK1689-ND	Precision Analog	**$275.00**
BK1690-ND	Digital LED	**$349.00**

High Current Linear Power Supply

Model BK1791: Current, limiting, reverse polarity, overvoltage, short circuit ***Features:* Output Voltage:** 0 ~ 64V. **Output Current:** 10A. **Metering:** LED.

BK1791-ND	**$1350.00**

DC Power Supplies to 240W Output

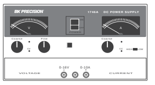

Short circuit protection, overload protection, reverse polarity protection, thermal protection, and current limiting. CV and CC operation, 0.02% +2mV line and 0.04%+2mV load regulation (zero to full load), adjustable current limits (five to 100%), low ripple (≤1mVrms), fast recovery time (≤100µS), and operate from 120VAC ±10%, 60Hz. **Dimensions:** 5.7 x 10.5 x 15". Test Lead Set TL-5A and TL-30 sold separately. **2 Year Warranty.**

Model BK1746B: Single 0-16V, 0-10A output. Two analog meters. **Voltmeter:** 0-16V ±2.5%. **Ammeter:** High Range = 0 ~ 11A, Low Range = 0 ~ 2.2A, Accuracy = ±2.5%. **Power Consumption:** 380W.

Model BK1740B: Single 0 ~ 60V, 0-4A output. Two analog meters. **Voltmeter:** 64V ±2.5%. **Ammeter:** High Range = 0 ~ 4.4A, Low Range = 0 ~ 1.1A, Accuracy = ±2.5%. **Power Consumption:** 450W.

Model BK1743B: Single 0 ~ 35V, 0 ~ 6A output. Two 4-digit LED meters. **Voltmeter:** 0 ~ 99.9V (green) ± (0.5% rdg + 9 digits). **Ammeter:** High Range = 0 ~ 9.99A (red), Accuracy = ±(0.5% rdg + 9 digits). **Power Consumption:** 420W.

BK1746B-ND	**$525.00**
BK1740B-ND	**$525.00**
BK1743B-ND	**$525.00**

Single Output Power Supply

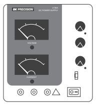
Model BK1730A

Short circuit protection, overload protection, reverse polarity protection, thermal protection, and current limiting. CV and CC operation, 0.01% +3mV line and load regulation (zero to full load), adjustable current limits (5 to 100%), low ripple (≤1mVrms), fast recovery time (≤100µS), and operate from 120 VAC ±10%, 60Hz. **Dimensions:** 6.2 x 5.5 x 12.5". Test Lead Set TL-5A and TL-30 sold separately. **2 Year Warranty.**

Model BK1710A: Single 0 ~ 30V, 0-1A output. Two analog meters. **Voltmeter:** 0-32 ±2.5%. **Ammeter:** High Range = 0 ~ 1.04A, Low range = 0 ~ 0.26A, Accuracy = ±2.5%. **Power Consumption:** 70W.

Model BK1711A: Single 0 ~ 60V, 0-2A output. Two analog meters. **Voltmeter:** 0 ~ 64 ±2.5%. **Ammeter:** High Range = 0 ~ 2.2A, Low range = 0 ~ 0.55A, Accuracy = ±2.5%. **Power Consumption:** 210W.

Model BK1715A: Single 0 ~ 60V, 0-2A output. Two 4-digit LED meters. **Voltmeter:** 0 ~ 99.9V (green) ± (0.5% rdg + 2 digits). **Ammeter:** Range = 0 ~ 9.99A (red), Accuracy = (0.5% rdg + 2 digits). **Power Consumption:** 210W.

Model BK1730A: Single 0 ~ 30V, 0-3A output. Two analog meters. **Voltmeter:** 0 ~ 32 ±2.5%. **Ammeter:** High Range = 0 ~ 3.2A, Low range = 0 ~ 0.53A, Accuracy = ±2.5%. **Power Consumption:** 180W.

Model BK1735A: Single 0 ~ 30V, 0 ~ 3A output. Two 3-digit LED meters. **Voltmeter:** 0 ~ 99.9V ±0.5%. **Ammeter:** Range = 0 ~ 9.99A, Accuracy = ±0.5%. **Power Consumption:** 180W.

BK1710A-ND	**$239.00**
BK1711A-ND	**$320.00**
BK1715A-ND	**$399.00**
BK1730A-ND	**$325.00**
BK1735A-ND	**$399.00**

Power Supply Hook-up Cables

TL-5A-ND	5A Power Supply Leads	**$9.95**
BKTL-30-ND	30A Power Supply Leads	**$13.50**

Triple Output Power Supply

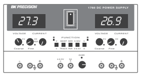

Model BK1760

Two Main sections capable of independent or tracking operation (Master and Slave). One fixed section. Switchable series/parallel operation and adjustable current limit controls for Main sections. Two displays: one reads volts or amps of "slave" supply; one reads volts or amps of "master" supply or fixed supply. Constant current and voltage indicators for Main sections. **Power Source:** 120VAC, +10% 60Hz. **Accessories Supplied**: Spare fuse, Instruction Manual, Power Cord. Test Lead Set TL-5A is sold separately.

Model BK1760A: Two 0 ~ 30VDC, 2A sections; One 4 ~ 6.5VDC 5A section. Switchable series/parallel operation for 24V sections. Two 3-Digit LED Displays. **Dimensions:** 5.7 x 10.5 x 15". **2 Year Warranty.**

Model BK1651A: Two 0 ~ 24VDC 500mA sections; One 5VDC 4A section. Switchable series/parallel operation for 24V sections. Two Analog Displays. **Accessories Included:** Test leads (3 Pairs). **Dimensions:** 5.5 x 11.75 x 10.975". **1 Year Warranty**.

Model BK1670A: Produces three outputs simultaneously. #1=30VDC @ 3A, #2=12VDC @ 500mA and #3=5VDC @ 500mA. Two 3-Digit LED Displays. **Dimensions:** 5.5 x 5.9 x 9.45". **1 Year Warranty.**

BK1760A-ND	**$650.00**
BK1651A-ND	**$435.00**
BK1670A-ND	**$189.00**

Programmable Power Supplies

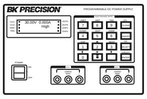

Model BK1770

Model BK1770

Standard GPIB Interface: Greater flexibility interfacing with a number of third party GPIB cards, computers and controllers. **Load Effect:** 0.001% +1mV; 1mA current. **Parallel and Series Operation:** One power supply satisfies a greater number of applications. **Front Panel Keypad:** Easy entry to set voltage, current, overvoltage and over-current. **Remote Sensing:** Maintains set voltage regardless of lead loss. **Backlit LCD Display:** Vital output information, voltage, current and operating mode. **True RMS Reading Metering:** Reliable means of comparing dissimilar waveforms. **50k MTBF:** High reliability with no downtime.

***General Specifications:* Programming Accuracy:** Voltage: 0.05% +2LSB; Current: 0.15% +5LSB. **PARD:** Voltage: 01mVrms/10m Vp-p; Current: 1mArms. **AC Input:** 115/220 VAC. **Operating Temperature Ratings:** 0°C ~ 50°C. **Storage Temperature Ratings:** -40°C ~ 70°C. **GPIB Interface Capability:** SH1, AH1, T6, TED, L4, LED, AL1 SRD, DC1, DTD, C0, E1. **Weight:** 1770: 18 lbs. (8.1kg); 1775: 20 lbs (9 kg). **Dimensions:** 8.4 x 5.2 x 15.7". **3 Year Warranty.**

Model BK1770: 0 ~ 17.5V; 0 ~ 35V, 0 ~ 6A; 0 ~ 3A DC output • Programming Resolution: 10mV, 2mA, 200mV DVP.

BK1770-ND	**$950.00**

Models BK1785B, BK1786B, BK1787B

Ripple and Noise (RMS): 1mV. **Line Regulation:** <0.01% +3mV. **Load Regulation:** <0.01% +3mV. **PC Interface (included):** Computer serial interface. **Operating Voltage:** 120 VAC, 60Hz. **Dimensions:** 10 x 4.16 x 15". **Accessories Supplied:** User manual, serial cable, Windows™ and DOS software. **Weight:** Approximately 14.8 lbs. (6.7 kgs). **Display:** 3 Digit LED voltmeter and ampmeter.

BK1785B-ND	0-18V, 5A DC Output	**$375.00**
BK1786B-ND	0-32V, 3A DC Output	**$375.00**
BK1787B-ND	0-72V, 1.5A DC Output	**$375.00**

BK PRECISION®
SETTING NEW STANDARDS IN PERFORMANCE & VALUE

Multimeters

Clamp-on Multimeters

Specifications:

Power Requirements: One 9V battery **Jaw Opening:** 2.24” (56.9mm) for Models 312A, 330B, 350B, and 369B; 1.75” (44.45mm) for Model 367 **Accessories Included:** Battery, Test leads, Instruction manual, Carrying case

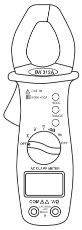

Model BK330B: **AC Current:** 200A to 1000A, 2 Ranges, Accuracy, 1200A overload protection **AC Voltage:** 750V, ±(1.2% rdg +5D) Accuracy, 1000V DC/750V RMS overload protection, 4.5MΩ Input Impedance **DC Voltage:** 1000V, ±(0.5% rdg + 1D) Accuracy, 1000V DC/750V RMS overload protection, 10MΩ Input Impedance **Resistance:** 200Ω to 2000MΩ, 14 Ranges **Dimensions:** 10.8 x 3.6 x 1.7” **Weight:** 17 oz. (481.9gm) ***Features:*** • Continuity • Diode • 2000 Count Resolution • Data hold • Max. hold • UL Listed

Model BK350B: **AC Current:** 32A to 1000A, 3 Ranges, ±(1.5% rdg + 5D) Accuracy, 1200A overload protection **AC Voltage:** 320mV to 1000V, 5 Ranges, ±(1.5% rdg + 4D) Accuracy, 1000V DC/750V RMS overload protection, 10MΩ overload protection **DC Voltage:** 320mV to 1000V, 5 Ranges, ±(0.5% rdg + 1D) Accuracy, 1000V DC/750V RMS overload protection, 10MΩ Input Impedance **Resistance:** 320Ω to 2000MΩ, 14 Ranges **Frequency:** 320Hz to 32kHz, 3 Ranges, ±(1% rdg + 2D) Accuracy, 500V DC/AC RMS **Dimensions:** 10.8 x 3.6 x 1.7” **Weight:** 17 oz. (481.9gm) ***Features:*** • Continuity • Diode • 3200 Count Resolution • Bargraph • Data hold • Peak hold • Range hold • UL Listed

Model BK367A: **AC and DC Current:** 400A to 2000A, 2 Ranges, ± (1.5% rdg + 4D) Accuracy, 1000A overload protection **AC Voltage:** 750V, ± (0.5% rdg + 4D) Accuracy, 1000V overload protection, 10MΩ Input Impedance **DC Voltage:** 200V, ± (1% rdg + 2D) Accuracy. 500V overload protection. 10MΩ Input Impedance **Resistance:** 40MΩ **Dimensions:** 10.8" x 3.6" x 1.7" (275mm x 90mm x 43mm) **Weight:** 18.3oz. (519g) ***Features:*** • Diode • 4000 Count Resolution • Data hold • Peak hold **Capacitance Range:** 40µF

Model BK369B: **AC and DC Current:** 400A to 1000A, 2 Ranges, ±(1.5% rdg + 5D) Accuracy, 1200A overload protection **AC Voltage:** 400mV to 1000V, 5 Ranges, ±(1.5% rdg + 4D) Accuracy, 1000V DC/750V RMS overload protection, 10MΩ Input Impedance **DC Voltage:** 400mV to 1000V, 5 Ranges, 0.5% Accuracy, 1000V DC/750V RMS overload protection, 10MΩ Input Impedance **Resistance:** 400Ω to 40MΩ **Frequency:** 100Hz to 400kHz, 5 Ranges **Capacitance:** 4nF to 40µF **Dimensions:** 10.8 x 3.6 x 1.7” **Weight:** 18.3 oz. (518.8gm) ***Features:*** • True RMS • Continuity • Diode • 4000 Count Resolution • Bargraph • Data hold • Peak hold • Range hold • Max/Min • Relative • UL Listed

BK330B-ND	200/1000A	**$95.00**
BK350B-ND	32/320/1000A	**$155.00**
BK367A-ND	400A/2000A	**$209.00**
BK369B-ND	400/1000A	**$189.00**
LC-33-ND	Carrying Case (1 Year Warranty)	**$25.95**

Bench DMM True RMS

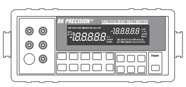

Model BK5492

Model BK5492:

5-1/2 Digit Dual Display Bench DMM with 0.012% Basic Accuracy • Selectable Count Resolutions of 120,000, 40,000 and 4,000 count • Selectable 2 Wire and 4 Wire Resistance • Measures Frequency to 1MHz with 0.01Hz Best Resolution • RS-232 Interface **Includes:** One set of TL 36 Test Leads and AC 01 caps for TL 36

Model 2831D:

4-1/2 LED Digit Display Bench with 0.05% Basic Accuracy • Measures diode, frequency and continuity in addition to basic current, voltage and resistance

Specifications: DC Voltage: 1200V max range, best accuracy +0.05% + 5D: **AC Voltage:** 1000V range max, best accuracy +0.75%+10d: **AC/DC Current:** 20A max, best accuracy +0.75% + 5D: **Resistance:** 20MΩ max, best accuracy +0.2% +5D: **Frequency:** 200 KHZ max, best accuracy +1.0% +5D • **Dimensions:** 9.4 x 3.5 x 10.3”

BK5492-ND		**$695.00**
BK2831D-ND		**$299.00**
LC-40B-ND	Carrying Case (1 Year Warranty)	**$90.00**

Analog Multimeter

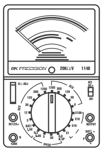

Model BK114B:

20,000/Volt Multimeter. 28 ranges. 88.90mm mirrored scale. Tests batteries under load. Test transistors.

Power Source: Two 1.5 volt batteries and one 9V battery.

Size: 5.7 x 3.9 x 1.4”

Accessories Supplied: Batteries, test leads, transistor test leads, instruction manual.

BK114B-ND	**$39.00**

Pocket Size Multimeter

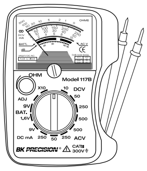

Measures DC and AC Voltage: 50/250/500VAC, 10/50/250/500VDC scales with ±5% accuracy (full scale). 2000Ω/V.

Measures DC current: 25/250mA with ±5% accuracy (full scale).

Measures resistance: 0-10k/1MΩ, ±5% degree arc of scale length.

Measures decibel: +4dB to +56dB on AC voltage ranges.

Battery Test Range: 1.5V/9V.

Power Supply: One 1.5V, AA battery.

Dimensions: 3.1 x 4.7 x 1.2”.

Accessories Supplied: Battery, test leads, and instruction manual.

BK117B-ND	**$19.95**

Mini-pro Multimeter

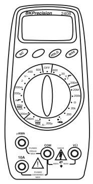

Specifications:

Digits: 2000. **Ranging:** Manual. **VDC:** 100mV-600V. **VAC:** 100mV-600V. **DC Current:** 0.1 mA-10A. **AC Current:** 0.1 mA-10A. **Resistance:** 200Ω - 20MΩ.

Features:

• Diode test • Continuity test • Non-contact voltage indicator • Data hold • MAX hold

BK2408-ND		**$45.00**
LC-24-ND	Carrying Case (1 Year Warranty)	**$15.00**

Pocket DMM

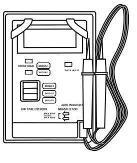

Pocket DMM. Analog bar graph with 32 segments. 3200 count LCD display. Auto power off. Low battery indicator. Range hold. Data hold. Integral test leads.

Power: Two 1.5V button type batteries

Dimensions: 4.4 x 2.2 x .4”

Accessories Supplied: Batteries, instruction manual, case.

BK2700-ND	**$35.00**

3½ Digit Ruggedized DMM

HIGH ENERGY FUSED

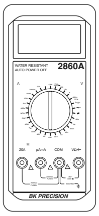

The Survivor™. High Energy Fused Ruggedized DMM. 3-1/2 digit 20.32mm high contrast LCD display.

Audible Continuity: 20 Amp range.

Sampling: 2.5 times/sec. (nominal). Heavy Duty 1500VDC, 1000VAC rating. Water resistant case.

Power Requirements: Single 9V battery.

Auto Power Off: approx. 30 minute

Dimensions: 6.9 x 3.5 x 1.5”.

Accessories Supplied: Battery, test leads, instruction manual, rubber boot.

5 Year Warranty.

BK2860A-ND		**$99.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.95**

Premium DMM

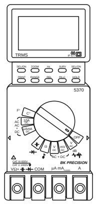

All Models:

• 50,000 count • True RMS, AC or AC + DC • Capacitance to 50,000 µF • Splashproof sealed case • IEC1010, class 2 safety compliance

• **3 Year Warranty**

Model BK-5390:

• 0.025% DCV • 0.07%Ω • 100KHz AC response • Auto-ranging, bargraph with zoom • Frequency: Duty cycle, pulse width • dB Across: 1Ω to 10kΩ • Power Across: 1Ω to 10kΩ • Disturbance indicator • Min./Max./Avg.

BK5390-ND	**$289.00**

“Tool Kit” Multimeters

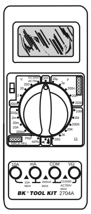

Model BK-2704B

Display: 3-1/2 digit, high-contrast 0.7” (17.78mm) LCD, 1999 counts. **Sampling:** 3 times/sec. (nominal). 0.5%DCV accuracy. **Operating Temperature:** 0°C ~ 50°C, 0% to 70% RH. **Power Requirements:** 9V battery.

Accessories Supplied: Battery, drop resistant case, test leads, and instruction manual.

1 Year Warranty.

Model BK2708:

DC Volts: 1000V Max. **AC Volts:** 750V Max.
DC Current: 10A Max. **AC Current:** 10A Max.
Resistance: 0.1Ω-43MΩ
Features: • Auto Ranging • Logic probe

Model BK2707A:

DMM, component tester, frequency counter, and logic probe. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC frequency counter. **Current Range:** 200µA to 10A. **Resistance:** 0.1Ω to 200MΩ. **Capacitance:** to 20µF. **Frequency:** 2kHz to 5MHz. **Logic Probe Function:** (TTL). **Transistor Gain Measure:** (hFE). **Dimensions:** 5.9 x 3.1 x 1.3”.

Model BK2706A:

DMM, component tester, and temperature meter. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC. **Current Range:** 200µA to 10A. **Resistance:** 0.1Ω to 20MΩ. **Capacitance:** to 20µF. **Frequency:** 10Hz to 15MHz. **Transistor Gain Measure:** (hFE). **Temperature:** 0°C ~ 750°C. Thermocouple probe included. **Dimensions:** 5.9 x 3.1 x 1.3”.

Model BK2704B:

DMM, component tester. **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC. **Current Range:** 200µA to 10A. **Frequency:** 2kHz to 15MHz. **Resistance:** 0.1Ω to 20MΩ. **Capacitance:** to 20µF. **Transistor Gain Measure:** (hFE). **Dimensions:** 5.9 x 3.1 x 1.3”.

Model BK2703B:

DMM, **Voltage Range:** 200mV to 1000VDC; 200mV to 750VAC. **Current Range:** 200µA to 10A. **Resistance:** 0.1Ω to 20MΩ. **Dimensions:** 5.9 x 3.1 x 1.3”.

BK2708-ND		**$99.00**
BK2707A-ND		**$89.00**
BK2706A-ND		**$79.00**
BK2704B-ND		**$59.00**
BK2703B-ND		**$39.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.95**

“Test Bench” Multimeters

HIGH ENERGY FUSED

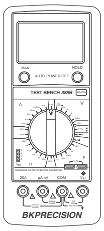

Model BK388B

High quality, ruggedized, multi-function DMMs in a drop resistant case. Resistance and frequency measurement. Diode check. Auto power off. All current ranges fused. **Power Requirements:** Single 9V battery. **Dimensions:** 7.8 x 3.5 x 1.5”.

Accessories Supplied: 9V battery, test leads, instruction manual, rubber boot.

3 Year Warranty.

Model BK388B-ND:

3-3/4 Digit LCD Display (4000 count). **DC Volts:** 400mV to 1000V. **AC Volts:** 400mV to 750V. **DC/AC Current:** 400µA to 10A. **Resistance:** 400Ω to 40MΩ. **Diode Test:** at 1mA, 3.2VDC max. type **Capacitance:** 4nF to 40µF. **Frequency:** 4kHz to 4MHz. Logic level measure (TTL) Transistor gain (hFE) and peak hold.

Model BK390A-ND:

3-3/4 Digit LCD Display (4000 count). **Analog Bar Graph:** 41 Segments. **DC Volts:** 400mV to 1000V. **AC Volts:** 400mV to 750V. **DC/AC Current:** 400µA to 10A. **Resistance:** 400Ω to 40MΩ. **Diode Test:** at 1.2mA, 3.0VDC max. type **Capacitance:** 4nF to 40mF. **Frequency:** 4kHz to 40MHz. **Temperature Range:** -50°C ~ 1300°C (1°C resolution). Auto/manual ranging. Relative mode. Minimum/Maximum hold. Data hold. Memory. RS-232. Audible continuity. Thermocouple Probe included.

Model BK389A-ND:

3-3/4 Digit LCD Display (4000 count). **Analog Bar Graph:** 41 Segments. **DC Volts:** 400mV to 1000V. **AC Volts:** 400mV to 750V. **DC/AC Current:** 400µA to 10A. **Resistance:** 400Ω to 40MΩ. **Diode Test:** at 1.2mA, 3.0VDC max. type **Capacitance:** 4nF to 40mF. **Frequency:** 4kHz to 40MHz. Auto/manual ranging. Relative mode. Min/max hold. Data hold. Memory. Audible continuity.

Model BK391A-ND:

4-1/2 Digit LCD Display (20,000 count). **DC Volts:** 200mV to 1000V. **AC Volts:** 200mV to 750V. **DC/AC Current:** 400µA to 10A True RMS reading. **Resistance:** 200Ω to 20MΩ. **Diode Test:** at 1mA, 3.2VDC max. type **Frequency:** 2kHz to 200kHz. **Duty Cycle:** .0 to 90% (0.1% resolution). Data hold. Logic level measure (TTL).

BK388B-ND		**$127.00**
BK390A-ND		**$167.00**
BK389A-ND		**$147.00**
BK391A-ND		**$187.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.95**

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Accessories

DC/AC Current Clamp Adapter

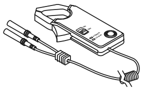

Measures current without disconnecting circuit under test. Measures to 400A DC or AC. Outputs 1 mV per Amp., operates on 2V range of any DMM. **Power Requirements:** 9V battery. **Operating Temp.:** 0° ~ 50°C, <70% RH. **Dimensions:** 7 x 2.8 x 1.3". **Accessories Included:** Battery and instruction manual.

BKCP-3-ND	**$92.00**

Probes and Test Lead Sets

TP-29-ND	Type K Bead Thermocouple Probe	**$9.95**
BKTL-4-ND	Universal Test Lead Set	**$8.95**
TL-2A-ND	Test Lead Set, Fully Shrouded SILIC, IEC61010-2-031 1,000V CATIII	**$21.95**
TL-1-ND	Test Lead Set, Fully Shrouded	**$8.95**
TL-3-ND	Test Lead Accessory Set for BKTL-4 and TL-2A	**$16.95**

High-Voltage Probes

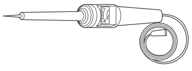

Model PR-28A: Accessory for DMM's Multiplies instrument ranges by 1000 (40V becomes 40,000V). PR-28 for use with any high impedance (10MΩ or greater) voltmeter. **Voltage Range:** 40kVDC and 20kVAC (60Hz). **Freq. Range:** DC-8Hz 20kVAC max. 60Hz. **Impedance:** 600MΩ accuracy: ±3% plus instrument accuracy. **Calibration:** Internal; factory calibrated at 25kV. **Size:** 14" long; 2.25" diameter (max.); 48" cord. **Connector:** Dual banana.

Model HV-44A: Built in meter for stand-alone operation (No DMM required). Measures voltages up to 40,000VDC. Factory calibrated at 25kV (±2% accuracy); full scale ±3% accuracy. Conventional round needle type tip and flat spring type tip for easy access to CRT anode. **Size:** 16.5 x 2.1 x 2". **Color:** Black and Red. **Positive Polarity Only –** *Not for microwave ovens.*

PR-28A-ND		**$64.00**
HV-44A-ND		**$109.00**
LC-32A-ND	Carrying Case (1 Year Warranty)	**$34.00**

High Intensity LED Flashlight with AC Voltage Detector

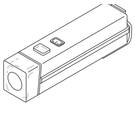

Features:
• AC Voltage Detection (detects AC voltage from 40VAC to 300VAC) • Water Resistant • Alkaline AAA Battery Included • If there is a AC voltage present, the red LED will shine brightly

BKSENSELITE-ND	**$19.95**

Logic Probes

20MHz and 50MHz Logic Probes

Model DP-21: **(20MHz Logic Probe):** Tests TTL, DTL, RTL, HTL, CMOS and MOS. Displays pulse presence and logic states. Memory mode "freezes" pulse display. Catches pulses to 30ns or pulse trains to 20MHz. 1MΩ input impedance. **Operating Supply Voltage Range:** TTL–5V, CMOS 5-15V. **Dimensions:** .7 x .7 x 8.2".

Model BKDP52: **(50 MHz Logic Probe):** Tests TTL and CMOS. Displays DC to 50MHz. Detects 10ns pulse width. Overload protected. 120kΩ input impedance. **Operating Supply Volt. Range:** 4-18VDC. **Dimensions:** .7 x .7 x 8.2".

DP-21-ND	**$35.00**
BKDP52-ND	**$45.00**

Pulser Probe

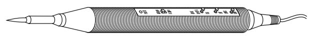

For TTL and CMOS. Produces 10μS pulse signal at 100mA. External square wave terminal. **Output Current:** Pulser mode-100mA sink/source square wave mode-5mA sink/source. **Operating Supply Voltage Range:** 5-15VDC. **Sync Input Impedance:** 1MΩ. **Dimensions:** .7 x .7 x 8.2".

DP-31A-ND	**$35.00**

Component Testers

Dual-Display Auto Ranging LCR Meter

Measures inductance, resistance and capacitance. 4$^1/_2$ digit LCD display. Tests at 120Hz or 1kHz. Relative mode. Tolerance mode. Basic accuracy ±0.1%. **Dimensions:** 1.6 x 3.4 x 7.2". **Accessories Included:** DC 9V battery, user manual.

BK878A-ND		**$245.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.95**

In-Circuit Testers

Model 881 — In-Circuit ESR and DCR Capacitor Tester

Specifications: • Open circuit probe voltage: 15mV pp • Output test frequency: 100KHz sine wave **Measures ESR:** • ESR range ohms: 0.1-30 (25 segment LED bar scale) • Beeps from 1 to 5 beeps depending on ESR of capacitor **Measures DCR:** DCR range ohms: 0.5-30 flashing the LED **Power:** One 9V battery or an external AC adapter (9V DC 100mA 5.5mm x 2.1mm center pin+) **Dimensions:** 1.5" x 3.8" x 5.7"

Model 885 — LCR/ESR Meter

• Measurement parameters: Z, L, C, DCR, ESR, D, Q, and 0 • Test conditions: 100Hz, 120Hz, 1kHz, 10kHz, 1vrms, 0.25Vrms, 0.05Vrms • 0.5% basic accuracy • Dual LCD display • SMD surface mount tweezer probe included • Fully auto/manual selection • DC resistance measurement • Rechargeable battery/AC powered

BK881-ND		**$199.00**
BK885-ND		**$549.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.95**

LCR Meter

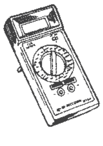

Model 875B: Measures capacitance (200pF-20mF ±1%), resistance (2-20MΩ ±1%), and inductance (200μH-200mH ±1%). 3-1/2 digit LCD display. Low battery and overload indicator. **Power:** Single standard 9V battery. **Dimensions:** 1.4 x 3.5 x 7.5". **Accessories Included:** Test leads, battery, instruction manual.

BK875B-ND		**$189.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.95**

Auto Ranging Capacitance Meter

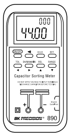

Nine ranges 0.1pF to 50mF. 0.1pF resolution. 4 digit LCD display. Dual display. RS-232 Output to PC. Data hold. Auto power off. Display zeroing. Audible alert mode (for sorting). High/Low limit sorting capability. **Power Source:** One 9V battery. **Dimensions:** 1.5 x 3.5 x 7.6". **Accessories Included:** Protective holster, alligator clips, 9V battery, instruction manual.

BK890-ND		**$129.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.95**

Capacitance Meter

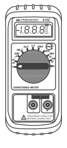

3-1/2 digit LCD display. Nine ranges from 200pF to 20mF. Low battery and over-range indicator. **Power Source:** One 9V battery. **Dimensions:** 5.7 x 3 x 1.6". **Accessories Included:** Test leads, battery, and manual.

BK810C-ND		**$79.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.95**

IC Testers

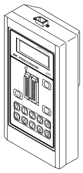

Model BK-570

Identify, test and verify unknown ICs, quickly and reliably. Batteries and operation manual included.

Model 570 — Linear IC Tester

• Tests all common analog ICs • Auto identification of unmarked/house-coded devices lists possible replacements • Conditional/unconditional loop testing modes • Functional test emulates passive circuitry to implement a comprehensive test in a variety of configurations • Displays diagnostic information down to individual component pins • Rugged, handheld, ergonomically designed case incorporates built-in membrane keypad, 2 x 16 dot matrix alpha-numeric, LCD and high quality 16-pin ZIF socket • Battery operated (2 x 9V) with low power design.

Model 575 — Digital IC Tester

• 40-pin wide-entry ZIF sockets test a broad range of TTL, CMOS, Memory, LSI, Interface and other devices (NAND gates to CPUs) • Identifies unmarked and house-coded devices • Detects intermittent and temperature related faults • Displays diagnostic information for individual pins • Battery operated (4 x 1.5AA batteries)

Model 898A — SIMM and DIMM Tester

Key Features: SIMM 72-pin, 32/36 bits (socket included). **Error Detection and Identification:** • Single data bits • Power and noise related failures • Solder opens and shorts • Timing related failures • Data retention errors • Intermittent failures. **User Configuration Test Modes:** Walking bits 0s • Walking bit 1s • Marching up • Checkerboard • Inversed checkerboard. ***Basic Technical Specifications:*** **Power Consumption:** • 898A 12VAC, 1.5A • Wall AC/AC adapter • Input: 120VAC @ 60Hz, 40W (USA) • Output: 12VAC, 2.0A • **Dimensions:** 7 x 6 x 2.5". **Environmental:** • Operating temperature: 10°C ~ 50°C • Relative humidity: 20% to 80% noncondensing

BK570-ND	Linear IC Tester	**$995.00**
BK575-ND	Digital IC Tester	**$895.00**
BK898A-ND	SIMM and DIMM Tester	**$1295.00**

NTSC Generator

Model BK1257:

This portable, handheld NTSC Pattern Generator with S-Video, composite video and audio outputs is powered by a 9-volt battery or AC adapter. It provides NTSC color bars, crosshatch, dot, staircase, circle, center cross, windows, and a full range of color raster patterns. The outputs available are composite video and audio via two RCA connectors or an S-Video mini-DIN output. Signals can be produced as an interlaced or progressive scanning mode. No modulated RF signal is provided.

BK1257-ND	NTSC Generator	**$199.00**

Cable/Harness Tester

A compact, stand-alone unit that can be used for any type of wired assembly. Opens, shorts and miswires are detected immediately. A universal adapter card offers outstanding flexibility and convenience, ready to accept any of industry's most popular 22 connector styles. A crisp, easy-to-read LCD instantly indicates good or faulty connections and simplifies troubleshooting.

Connect Test Threshold: Resistance: Shorts <130Ω ±10%; Opens 130Ω ±10%; Capacitance: Shorts >0.6μf ±10%; Opens <0.6μf ±10%. **Test Conditions:** 5 volts at 6mA. **Max. Multiple Connection Display:** Up to 16 test points. **Test Cycle Time:** <0.5 sec. **Test Point Capacity:** Max. 128 points (64 connections). **Program Storage:** Lithium battery backs up memory for 50 cables. **Probe:** Single wire test probe with standard .175" (4.45mm) banana jack. **Display:** 2 line x 16 character LCD; 2 LEDs (green/red) for "PASS" or "FAIL" conditions. **Printer Port:** Standard Centronics type parallel interface. **Power:** DC 12V-14V, 500mA AC adapter. **Dimensions:** 2.1 x 13.8 x 9". **Weight:** 6 lbs. (2.72kg).

Accepts These Connectors

Interface Qty. Each	Spacing/ Style	Connector Type	Max. Pins
8	0.1" (2.54mm)	Dual-Row	64
2	"D" Submini	Dual-Row	37
2	Delta	Centronics	80
2	0.6" (15.24mm)	DIP	40
2	RJ11	Phone Plug	6
2	RJ45	Phone Plug	8
2	0.156" (3.96mm) Header	Single-Row	20
2	0.1" (2.54mm) Header	Single-Row	32

BK205-ND	**$995.00**

Network and PC Cable Testers

Model 231A: • Tests 10 BaseT, 100 Base2, RJ45, RJ11,356A, TIA-568A, TIA-568B, and token ring cables • Detects open, short, cross, and continuity • Tests point-to-Point, rather than Pair-to-Pair • Tests cables on wall plate or patch panel up to 1000 ft. away with the remote kit • Easy to read LED display

BK231A-ND	DLX Multi-Network Cable Tester	**$79.00**

EPROM Eraser

Model BK850: • Timer setting: 15 minutes • Supply voltage: 12VDC/500mA (AC/DC adapter included) • UV light source: 4 watt bulb • UV bulb life: > 4000 hours • Dimensions: 6.2 x 2.72 x 1.45"

BK850-ND	**$95.00**

Deluxe EPROM Eraser

Model BK851: Heavy duty EPROM eraser simultaneously erases up to 40 twenty-four pin EPROMs. Features a 60 minute timer.

BK851-ND	**$169.00**

Power Supply Leakage Tester

Model 1655A: • Variable isolated output—0-150VAC • 3 amp continuous, 4 amp intermittent output • Built-in soldering iron temperature control • Expanded leakage scale • Circuit breaker overload protection • Displays volts, amps, VA, leakage

BK1655A-ND	**$529.00**

3½ Digit Hand-Held Parts Tester

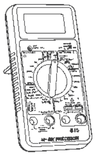

26 user ranges for versatile test selection. Tests capacitance from 0.1pF—20mF. Tests resistance from 0.1Ω—20MΩ. Tests transistors, SCRs, diodes and LEDs. Tests batteries under actual loaded conditions.

Power: One 9V transistor battery. **Dimensions:** 6.9 x 3.6 x 1.3". **Accessories Included:** Test leads, spare fuse, battery, instruction manual.

BK815-ND		**$99.00**
LC-29B-ND	Carrying Case (1 Year Warranty)	**$18.95**

Video Monitor Testers

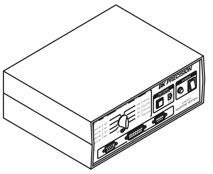

Model 1280A: Fully featured bench-top design to test both Mac and PC monitors. All patterns can be manually selected or placed in Auto for automatic cycling of each available pattern. Designed to test (burn-in) one to four monitors, the 1280A can also be used as a display generator. Full Color: green, blue, red, black and white. **Features:** • PC and Mac patterns • 16 monitor types/resolution selections • Color bar, cross hatch, dot, raster, Windows™ selection • VGA, SVGA, RGB, HV, V and Four DB-15 (rear panel) for multiple monitor burn-in • AC adapter included • Available patterns: PC — 1280 x 1024, 1024 x 768, 8514A, SVGA, VGA, EGA, CGA, MDA; Mac — 1280 x 1024, 1152 x 870, 1024 x 768, 832 x 624, 640 x 480 (3 types), 512 x 384

Model 1275: Handheld unit to test PC and Mac monitors. Generates crosshatch, dots, color bars and raster patterns in green, blue, red, black and white. **Features:** • CGA, VGA, SVGA • Standard DB9, DB-15 and DB-15 Hi-res mini connectors • 9VDC battery • Available Patterns: PC — 1280 x 1024, 1024 x 768, 8514A, SVGA, VGA, EGA, CGA; Mac — 640 x 480

BK1280A-ND	Bench-top Video Generator	**$299.00**
BK1275-ND	Handheld Video Monitor Tester	**$189.00**

High-Performance Oscilloscope Probes

IEC 1010 Category I or Category II Compliance

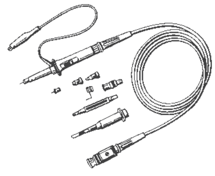

It is important that you select a probe with the same bandwidth or “frequency range” as the oscilloscope used for the job. For example, if you’re using a 100 MHz oscilloscope, choose a probe with a minimum of 100MHz. To achieve optimum performance, choose a probe with more than twice the bandwidth of the oscilloscope.

Category I This slim design comes equipped with interchangeable cables, probe tips and grooved heads. Compensation adjustment placed in the BNC eliminates noise and interference related pickup. Available in switchable and non-switchable versions.

Category II This versatile design offers three monolithic interchangeable probes in 60, 100, and 250MHz bandwidth.

Band-width	Atten-uation	Cable Length Meters	Input Impedance R C	Max Input V DC + Peak AC Range	Rise Time	Compen-sation	Read-out	Digi-Key Part No.	Price Each	TPI Part No.
Switchable, IEC 1010 Compliant - Category II										
60MHz	x1 x10	1.5	1 Meg 200pF 10 Meg 22pF	600V	6ns	20-45pF	NA	290-1055-ND	49.95	IP060
250MHz	x1 x10	1.5	1 Meg 200pF 10 Meg 22pF	600V	1.5ns	10-60pF	NA	290-1057-ND	59.95	IP250
Switchable, IEC 1010 Compliant - Category I										
60MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 18pF	600V	5.8ns	10-35pF	NA	290-1003-ND	34.95	SP60B
100MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 16pF	600V	3.5ns	10-35pF	NA	290-1004-ND	39.95	SP100B
150MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 15pF	600V	2.3ns	10-35pF	NA	290-1005-ND	44.95	SP150B
200MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 15pF	600V	1.8ns	10-35pF	NA	290-1006-ND	49.95	SP200B
250MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 14pF	600V	1.4ns	10-35pF	NA	290-1007-ND	54.95	SP250B
300MHz	x1 x10	1.2	1 Meg 47pF 10 Meg 12pF	600V	1.1ns	10-35pF	NA	290-1008-ND	59.95	SP300B
Non-Switchable, IEC 1010 Compliant - Category I										
15MHz	x1	1.2	1 Meg 47pF	600V	23ns	—	NA	290-1000-ND	29.95	1P20B
100MHz	x10	1.2	10 Meg 16pF	600V	3.5ns	10-35pF	NA	290-1001-ND	34.95	P100B
100MHz	x10	1.2	10 Meg 16pF	600V	3.5ns	10-35pF	Yes	290-1050-ND	39.95	P100BR
200MHz	x10	1.2	10 Meg 15pF	600V	1.8ns	10-35pF	NA	290-1002-ND	39.95	P200B
250MHz	x100	1.2	100 Meg 6.5pF	1200V	1.4ns	10-35pF	NA	290-1051-ND	44.95	P250
250MHz	x100	1.2	100 Meg 6.5pF	1200V	1.4ns	10-35pF	Yes	290-1052-ND	49.95	P250R
250MHz	x10	1.2	10 Meg 14pF	600V	1.4ns	10-35pF	NA	290-1053-ND	44.95	P250B
250MHz	x10	1.2	10 Meg 14pF	600V	1.4ns	10-35pF	Yes	290-1054-ND	49.95	P250BR

Dual Channel, 20MHz Oscilloscope

with True RMS Digital Multimeter

Portable Oscilloscope and Dual Input DMM

- Cursor Readout
- Pre-Post Triggering
- Decibel Measurement
- Trend Mode
- Real Time Sample Rate
- Bright LCD Backlight
- Continuous Autoset
- RS232 Option Available

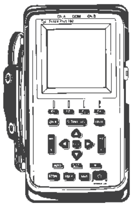

Includes:

Two test leads, two banana to BNC adapters, one DC-60MHz X1 X10 passive oscilloscope probe, power supply and user manual.

VERTICAL	
Bandwidth	20MHz with SP60B 10:1 Probe 10MHz with Shielded Test Leads
Sample Rate Real Time Equivalent Time	 25 Megasamples per Second up to 2MHz 500 Megasamples per Second > 2MHz
Sensitivity	50mV to 200V/div 1,2,5 Sequence
Coupling	AC, DC, GND
Resolution	8 bits
Accuracy	± 3% + 0.05 range/div
HORIZONTAL	
Modes	Single, Normal, Auto
Samples per Division	25
Accuracy	Equivalent Time: ± 0.5% + 0.08 time/div Real Time: ± 0.1% + 0.04 time/div
TRIGGER	
Source	Internal
Modes	Free Run, Normal
Sensitivity	Equivalent Time: 3 divisions or more
	Real Time: 2 divisions or more
TREND MODE	
Plot Time	30 sec/div to 1 hour/div
Plot Data Type	Max/Min Selectable
Memory	2 Screens
TRUE RMS DMM	
DCV (CH1, CH2) Basic Accuracy:	400mV, 4, 40, 400, 600V ± 0.5% + 5 digits
ACV (CH1, CH2) Basic Accuracy:	400mV, 4, 40, 400, 600V ± 1% + 10 digits
Frequency (CH1, CH2) Basic Accuracy:	1Hz ~ 20MHz ± 0.5% + 5 digits
Ohm (CH1 only) Basic Accuracy:	400, 4k, 40k, 400k, 4M, 20M ± 0.5% + 5 digits
Continuity (CH1 only)	Sounds < 0.1kΩ, ± 2% + 5 digits

Description	Digi-Key Part No.	Price Each	TPI Part No.
Handheld Oscilloscope 460	290-1460-ND	895.95	460
Carry Case for 460	290-1905-ND	39.95	A905
Software and RS232 Cable for 460........	290-1404-ND	69.95	A404

Differential Probe

This high-voltage differential probe allows conventional grounded oscilloscopes to be used for display and measurement of multiple floating signals with high common mode voltages. IEC 1010 approved for safety. **FUNCTION**: **Bandwidth:** DC - 25MHz (-3dB) **Accuracy:** ± 2% **Risetime:** 14nS **Input Impedance:** 4M/10pF each side to ground, 8M/5pF between inputs **Input Voltage:** ±140VDC Inc.Pk AC@ **Maximum Differential:** 20:1 or 100V RMS, ± 1,400VDC Inc. Pk AC, 200:1 or 1,000V RMS **Output Voltage:** ± 7 minimum 2K load **Offset (typical):** <± 5mV -14°F ~ 74°C (-10°C ~ 40°C) **Common Mode:** ± 1,400VDC Inc. Pk AC, or 1,000V RMS **Noise (typical):** 1.5/2mV **Output Source Impedance:** 1 @ 1kHz. 8 @1MHz **Operating Temperature:** -14°F ~ 74°C (-10°C ~ 40°C) **Power Requirements:** 4 AA cell or 6V main adapters: DC/600mA or DC/800mA **Input Leads:** 45cm double insulated PVC terminated in 44mm safety plugs

290-1076-ND ADF25 ....**$272.95**

4,000 Count True RMS DMM with 1MHz Waveform Capabilities

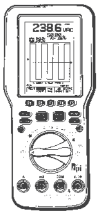

Versatile 6 Instruments-in-1

Features:

• Autoranging 4,000 Count\True RMS DMM • 1MHz • Trend Mode • Component Test • Logic Test • Frequency Counter • T-Base Button • Continuous Auto-set • RS232 Option Available

Includes:

Insulated test leads with alligator clips, power supply, NiCad battery and user manual.

Oscilloscope	
Bandwidth	1MHz
Sample Rate	20 Megasamples per Second Single Shot
Channels	Single
Glitch Capture	Yes
Trend Mode	Yes
Auto Set	Continuous
Waveform Memory	8 locations
Set-up Memory	8 locations
Viewing Area	160 x 240 pixels
Contrast	Adjustable
DMM	
True RMS	Yes
Basic DC Accuracy	0.3%
DCV / ACV	Up to 1,000 volts
DCA / ACA	Up to 10 amps
Ohms	Up to 40MΩ
Capacitance	Up to 400μF
Frequency	Up to 2MHz

Description	Digi-Key Part No.	Price Each	TPI Part No.
TPI 440 Hand-held Oscilloscope 440......	290-1440-ND	299.95	TPI 440
Software for TPI 440.........................	290-1075-ND	59.95	A402
Battery Charger for TPI 440................	290-1441-ND	17.52	TPI A401
Carrying Case for TPI 440	290-1900-ND	19.95	TPI A900
Rubber Boot for TPI 440	290-1123-ND	19.95	A403

Nano-Clips and Micro-Clips

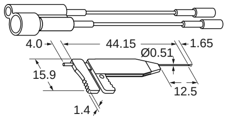

NANO-CLIP SPECIFICATIONS:
Accessible Lead Pitch: 0.3mm minimum **Clip Retention:** 50g minimum **Stroke:** 1.65mm **Operating Force:** 300g maximum **Contact Resistance:** 30MΩ **Conductor Resistance:** 300MΩ

NANO-CLIP FEATURES:
• Gold-plated hook and contact • Fluorine coated barrel extension

MICRO-CLIP SPECIFICATIONS:
Accessible Lead Pitch: 1.27mm minimum **Clip Retention:** 200g minimum **Stroke:** 3.0mm **Operating Force:** 1.0kg maximum **Contact Resistance:** 30MΩ **Conductor Resistance:** 200MΩ

Description	Package Includes	Digi-Key Part No.	Price Each	TPI Part No.
Nano-Clip .3mm				
Black, Red	2 Clips, 2 Lead Sets and Ground Lead......................	290-1096-ND	47.95	NC2BR
Black, Red	6 Clips, 3 Lead Sets, and Ground Lead......................	290-1097-ND	99.95	NC6BR
Red	6 Clips, 3 Lead Sets, and Ground Lead......................	290-1098-ND	99.95	NC6R
Black	6 Clips, 3 Lead Sets, and Ground Lead......................	290-1099-ND	99.95	NC6B
Yellow	6 Clips, 3 Lead Sets, and Ground Lead......................	290-1100-ND	99.95	NC6Y
Blue	6 Clips, 3 Lead Sets, and Ground Lead......................	290-1101-ND	99.95	NC6CBLUE
Green	6 Clips, 3 Lead Sets, and Ground Lead......................	290-1102-ND	99.95	NC6G
Gray	6 Clips, 3 Lead Sets, and Ground Lead......................	290-1104-ND	99.95	NC6GY
Assorted	12 Clips, 6 Lead Sets, and Ground Lead	290-1105-ND	175.95	NC12
Black	1 Clip.....................................	290-1106-ND	9.95	NC1B
Gray	1 Clip.....................................	290-1107-ND	9.95	NC1GY
Red	1 Clip.....................................	290-1108-ND	9.95	NC1R
Yellow	1 Clip.....................................	290-1109-ND	9.95	NC1Y
Green	1 Clip.....................................	290-1110-ND	9.95	NC1G
Blue	1 Clip.....................................	290-1111-ND	9.95	NC1BLUE
Ground	1 Lead....................................	290-1112-ND	4.25	NCGROUND
Hot	1 Lead....................................	290-1113-ND	3.50	NCHOT
Dual Lead	1 Lead....................................	290-1114-ND	6.38	NCDUAL
Lead Out Contact	Use with 24-28 AWG Wire (Solder-Type)	290-1115-ND	2.97	LC85
Lead Out Contact	Needs Crimp Tool for Nano-Clip and Micro-Clip	290-1116-ND	2.40	LC65
Micro-Clip 1.27mm				
Black	1 Clip.....................................	290-1118-ND	6.38	MC1B
Gray	1 Clip.....................................	290-1119-ND	6.38	MC1GY
Red	1 Clip.....................................	290-1121-ND	6.38	MC1R
Assorted	6 Clips, 3 Lead Sets and Ground Lead..	290-1117-ND	46.95	MC6

Test Leads and Accessories

Right angle end for Figures 1-5

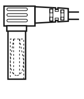

Fig. 1

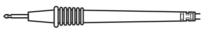

Fig. 2

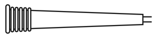

Fig. 3

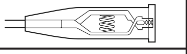

Fig. 4

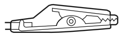

Fig. 5

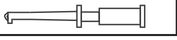

Fig. 6

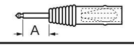

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10
1	Test Lead Set Standard 46”	290-1059-ND	8.75	7.40
2	Test Lead Set Deluxe Extended	290-1060-ND	15.73	13.29
3	Test Lead Set Large Clip 9” Pigtail	290-1061-ND	6.05	5.12
4	Test Lead Set Small Clip 9” Pigtail	290-1062-ND	4.48	3.79
5	Probe Tip Red 5 Mini Clip With 9” Pigtail	290-1065-ND	6.73	5.69
5	Probe Tip Black 5 Mini Clip With 9” Pigtail	290-1066-ND	6.73	5.69
6	Probe Tip Set Short; Dimension A = .5”	290-1063-ND	6.50	5.50
6	Probe Tip Set Long; Dimension A = 2.44”	290-1064-ND	7.85	6.64
—	Kit Test Lead Set 7 Pair	290-1058-ND	29.95	—

Digital Multimeters

• TPI digital multimeters feature auto ranging, min./max. record function, 4,000-count display, and protective rubber feet.

• The 183 offers a triple display with backlight, frequency and capacitance ranges, and RS-232 communication function.

• TPI 190 series digital multimeters feature 50,000-count triple display with analog bar graph and backlight, separate fuse and battery compartment, CAT IV rated test leads with screw on alligator clips, and protective rubber feet.

Includes: *Batteries, Test Leads, Protective Boot, and Instruction Manual with 3-year Limited Warranty*

126

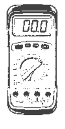

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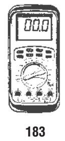

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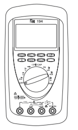

NEW! **192, 194, and 196**

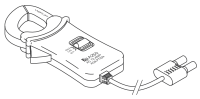

A251, A256 (0-400 Amps)

FUNCTION	126	153	183	192	194	196
Display Count	4,000	4,000	4,000	50,000	50,000	50,000
AC Volts	600	750	750	750	750	750
DC Volts	600	1,000	1,000	1,000	1,000	1,000
Basic DC Accuracy	0.3%	0.3%	0.3%	0.05%	0.05%	0.05%
AC/DC Amps	400mA	10	10	10	10	10
True RMS	NA	NA	Yes	Yes	Yes	No
Resistance	40MΩ	40MΩ	40MΩ	50MΩ	50MΩ	50MΩ
Capacitance	NA	NA	10,000µF	100µF	20,000µF	NA
Frequency	NA	NA	200KHz	500KHz	500KHz	NA
Analog Bar Graph	NA	NA	Yes	Yes	Yes	Yes
Auto Range	Yes	Yes	Yes	Yes	Yes	Yes
Data Hold	Yes	Yes	Yes	Yes	Yes	Yes
Min./Max. Record	Yes	Yes	Yes	Yes	Yes	Yes
Sleep Mode	NA	NA	Yes	Yes	Yes	Yes
Auto Power Off	Yes	Yes	NA	Yes	Yes	Yes
RS232 (cable and software)	NA	NA	Optional A108	Optional A191	Optional A191	Optional A191
Dimensions - Inch (with boot)	6 x 3 x 2	7.75 x 3.75 x 2.25	7.75 x 3.75 x 2.25	8.0 x 4.5 x 2.0	8.0 x 4.5 x 2.0	8.0 x 4.5 x 2.0

Description	Digi-Key Part No.	Price Each	TPI Part No.
Multimeters			
Pocket Auto Range, Compact Size	290-1126-ND	59.95	126
4 Digit, Large Display	290-1153-ND	70.83	153
4 Digit, Triple Display	290-1183-ND	159.95	183
5 Digit, CAT III	290-1423-ND ***NEW!***	219.95	192
5 Digit, CAT IV	290-1424-ND ***NEW!***	299.95	194
5 Digit, Process Control	290-1425-ND ***NEW!***	399.95	196
Adapters for DMM			
Temp. Adapter with Probe, -40°F ~ 500°F (-40°C ~ 260°C)	290-1124-ND	44.95	A301
AC Clamp-On, 1mV/Amp Output	290-1079-ND	52.95	A251
AC/DC Clamp-On	290-1080-ND	84.95	A256
Accessories for DMM			
DMM Boot Hook for Standard Size	290-1103-ND	8.70	A103

NEW! Digital Clamp-On Meter

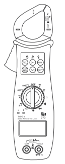

Measure AC/DC volts, AC amps, DC microamps, resistance, continuity, temperature, capacitance, frequency, and diodes. Other features include: non-contact voltage detection, high voltage indication, and the ability to capture in-rush current with peak hold mode.

290-1421-ND	270	**$119.95**

Test Lead Kits

Description	Digi-Key Part No.	Price Each	TPI Part No.
Deluxe Test Lead Kit IEC1010	290-1041-ND	35.00	TLS2000B
R/A Deluxe Test Lead Kit IEC1010	290-1042-ND	29.78	TLS2000RB
Economy Test Lead Kit IEC1010	290-1043-ND	17.50	TL1000B
R/A Economy Test Lead Kit IEC1010	290-1044-ND	17.50	TL1000RB
Test Lead Set STD	290-1125-ND	6.95	A040
Test Lead Set STD with Clips	290-1127-ND	9.95	A050
Test Lead Sprung Hook Red	290-1128-ND	5.75	123502R
Test Lead Sprung Hook Black	290-1129-ND	5.75	123502B
Lead 10 Ft. Red	290-1130-ND	10.00	123501R/10'
Lead 10 Ft. Black	290-1131-ND	10.00	123501B/10'
Lead 5 Ft. Red	290-1132-ND	9.00	123501R/5'
Lead 5 Ft. Black	290-1134-ND	9.00	123501B/5'

Pocket Digital Contact Thermometers

Range: -58°F ~ 300°F or -50°C ~ 150°C **Resolution:** 0.1°F or °C
Accuracy: ±2°F or ±1°C **Sampling Time:** 1.5 sec. **Battery:** 1.5V button
Features: • Data hold for hard to reach areas • Auto power off

310: • Reversible LCD head • Turns for best viewing • Easy-to-read LCD • 4.9" stem

312: • Water resistant for use in wet environments • Quick response • Easy insertion into "Petes" plugs • 4.9" stem

315: • Rugged design • Water resistant • 3.1mm diameter stem for "Pete's" plugs

290-1310-ND	310	**$12.95**
290-1312-ND	312	**$15.95**
290-1422-ND *NEW!*	315	**$17.95**

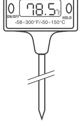

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312

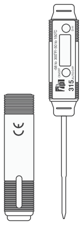

NEW! 315

IR Non-Contact and Contact Temperature Testers

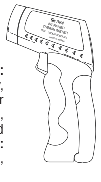

NEW! **Models 380, 381, 381F, 383, and 384**

• Easy to use single button operation • 0.1/1 degree auto resolution for best reading • Last reading hold • Soft holster pouch included • 8:1 distance to spot ratio (381F: 6:1) • Large, easy to read display • °C and °F selectable • Non-contact temperature instrument

Applications: • Automotive: AC systems, brakes, catalytic converters, diesel maintenance, electrical systems, engines, and radiators **• Electrical:** Cables, circuit breakers, connections, machinery, motors, and transformers **• HVACR:** Compressor heads, vents, hot and cold areas in insulation, leaks around cooler or frozen doors, leaks around windows, steam traps, and registers **• Food:** Grill and surface temperatures, holding cabinets, serving temperatures, and storage temperatures

FUNCTION	380	381	381F	383	384
Temperature Range	-4°F ~ 572°F -20°C ~ 300°C	-4°F ~ 572°F -20°C ~ 300°C	-31°F ~ 572°F -35°C ~ 300°C	-31°F ~ 999°F -35°C ~ 560°C	-31°F ~ 1,832°F -35°C ~ 1,000°C
Laser Sighting	No	Yes	Yes	Yes	Yes
Accuracy @ 25°C and 0.95 Emissivity	±2% / ±3.5°F	±2% / ±3.5°F	±2% / ±3.5°F	±2% / ±3.5°F	±2% / ±3.5°F
Response Time	500ms	500ms	500ms	500ms	500ms
Special Response	7-14um	7-14um	7-14um	7-14um	8-14um
Emissivity	0.95 fixed	0.95 fixed	0.95 fixed	0.95 fixed	0.95 fixed
Battery Type	9V alkaline	9V alkaline	9V alkaline	9V alkaline	9V alkaline

Take non-contact and contact temperatures with one temperature tester.

Features: • Combination non-contact IR and contact (K-type thermocouple) • Laser pointer • Record function • Display data hold function, • Backlight • Trigger switch • 8:1 distance to spot ratio • Selectable °C/°F • Gun-type compact design • Operation lock function • Soft pouch included • Three-year limited warranty

Order optional K-type thermocouples for contact applications at the bottom of this page.

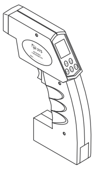

FUNCTION	376	377
Temperature Range:	-58°F ~ 950°F (-50°C ~ 510°C)	0°F ~ 1,832°F (-18°C ~ 1,000°C)
Accuracy @ 23°C and 0.95 Emissivity	±2% of reading or ±3.5°F, whichever is greater	±2% of reading or ±3.5°F, whichever is greater
Response Time	500ms	500ms
Special Response	7-14um	7-14um
Emissivity	0.3 ~ 99 adjustable	0.3 ~ 99 adjustable
Display Resolution	0.1°F and 0.1°C or 1°F and 1°C	0.1°F and 0.1°C or 1°F and 1°C
Operating Temperature	32°F ~ 120°F (0°C ~ 50°C)	32°F ~ 120°F (0°C ~ 50°C)
K-Type Probe Range	-40°F ~ 2,192°F (-40°C ~ 1,200°C)	-40°F ~ 2,192°F (-40°C ~ 1,200°C)
K-Type Probe Accuracy	±5% of reading 3°F	±5% of reading 3°F

Description	Digi-Key Part No.	Price Each	TPI Part No.
Combination Non-Contact/Contact Temperature Tester w/ Soft Pouch	290-1376-ND	199.95	376
Combination Non-Contact/Contact Temperature Tester w/ Soft Pouch	290-1377-ND	189.95	377
Non-Contact Temperature Tester with Soft Pouch, without Laser	290-1426-ND ***NEW!***	64.95	380
Non-Contact Temperature Tester with Soft Pouch and Laser	290-1427-ND ***NEW!***	74.95	381
High-Temperature, IR Gun with Soft Pouch	290-1418-ND ***NEW!***	99.95	381F
High-Temperature, IR Gun with Soft Pouch	290-1419-ND ***NEW!***	99.95	383
High-Temperature, IR Gun with Soft Pouch	290-1420-ND ***NEW!***	129.95	384

Close Focus, Pocket-Size Infrared Thermometer

Features: • Compact–Easily fits in your pocket • Selectable Fahrenheit or Centigrade temperature range: -7°F ~ 248°F (-22°C ~ 120°C) • Auto Data Hold • Min./Max. functions 8 samplings in 0.5 seconds • AUTO sets the 368 into scan mode to continuously scan surface temperatures in real time. Automatically powers off after 60 seconds. ***NOTE:*** Close focus IR thermometers should be held a distance 0.5 ~ 2" from surface to be measured to obtain an accurate reading (spot size 0.35").

Specifications: • Operating Temperature: 32°F ~ 104°F (0°C ~ 40°C) • Accuracy: 2% of reading or ±3.5°F, whichever is greater

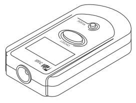

290-1901-ND	368	**$24.95**

NEW! K-Type Contact Thermometers

VKF300M: Reliable K-type thermocouple, low-battery indicator, and easy on-site thermometer calibration checking. Accuracy at 23°C is ±0.5 or 0.9% °F. Use the VKF300M to verify accuracy of K-type thermometers and calibrate the 343.

FUNCTION	343C2
Min./Max. Record	Yes
Selectable Res.	Yes
C/F Selectable	Yes
T1, T2 △T	Yes
Auto Off	Yes
Range K-Type	-58°F ~ 2,462°F -50°C ~ 1,350°C
Basic Accuracy	±0.3%
Battery	9V

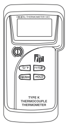

343C2

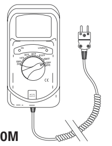

VKF300M

343C2: Water-resistant testers accept K-type thermocouple probes. The 343C2 features dual inputs displays temperature differential, and has min./max. record. Protective boot (A304) included. **Size:** 1.6" x 6" x 3" **Weight:** 278g with boot

**Perform ice bath calibration to achieve ±1°F within the 30°F ~ 120°F temperature range. Calibration is an easy two-step process performed through the keypad and does not require the use of tools.*

290-1416-ND	343C2	**$74.95**
290-1417-ND	VKF300M	**$108.36**

Thermocouple Temperature Probes

(Use with any K-Type instruments)

Model CK11M: • K-type surface probe • Ribbon sensor to contact uneven surfaces • 4 inch stem, 4 inch handle for easy control and safe clearances • 3 foot coiled lead for durability and long reach • Exposed junction for fast response

Model CK13M: • Heavy duty K-type surface probe • Spring sensor to maintain pressure on surface being measured • Ceramic insert to help hold heat near sensor for accurate measurements • 4 inch stem, 4 inch handle for easy control and safe clearances • 3 foot coiled lead for durability and long reach • Exposed junction for fast response

Model CK16M: • Heavy duty K-type surface probe • Spring sensor to maintain pressure on surface being measured • Ceramic insert to help hold heat near sensor for accurate measurements • 8 inch stem and 4 inch handle for measurements where longer reaches are required • 3 foot coiled lead for durability and long reach • Exposed junction for fast response

Model CK17M: • K-type surface probe • Ribbon sensor to contact uneven surfaces • 45 degree angle stem to measure hard to reach surfaces • 3 foot coiled lead for durability and long reach • Exposed junction for fast response

Model FK14M: • K-type general purpose probe • 8 inch sealed stem for immersion into liquids, gels, and semi-solids • 3 foot coiled lead for durability and long reach • Stem sealed to protect sensing area

Model GK11M and Model GJ11M: • Standard K-type and J-type thermocouple probes • 4 foot fiberglass covered lead • Exposed junction for fast response

290-1906-ND	CK11M	**$39.95**
290-1907-ND	CK13M	**$42.95**
290-1908-ND	CK16M	**$29.95**
290-1909-ND	CK17M	**$39.95**
290-1910-ND	FK14M	**$29.95**
290-1911-ND	GK11M (K-Type)	**$14.95**
290-1912-ND	GJ11M (J-Type)	**$16.95**

Adapters

Dimensions: Inches (mm)

Fig. 1

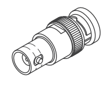

Fig. 2

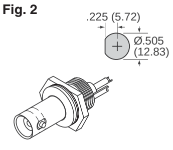

Fig. 3

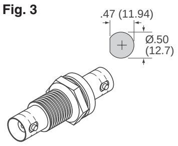

Fig. 4

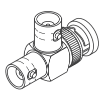

Fig. 5

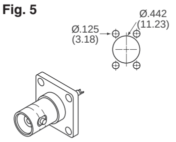

Fig. 6

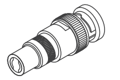

Fig. 7

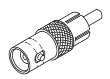

Fig. 8

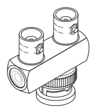

Fig. 9

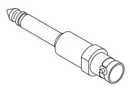

Fig. 10

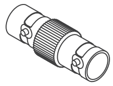

Fig. 11

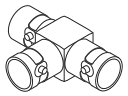

Fig. 12

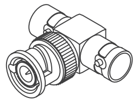

Fig. 13

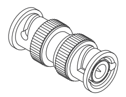

Fig. 14

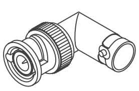

Fig. 15

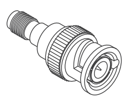

Fig. 16

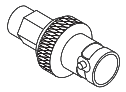

Fig. 17

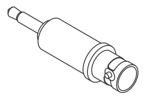

Fig. 18

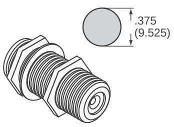

Fig. 19

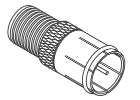

Fig. 20

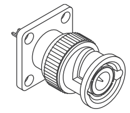

Fig. 21

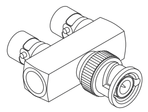

Fig. 22

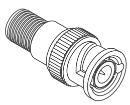

Fig. 23

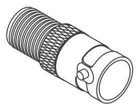

Fig. 24

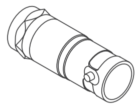

Fig. 25

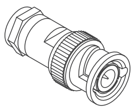

Fig. 26

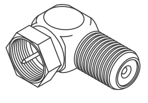

Fig. 27

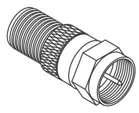

Fig. 28

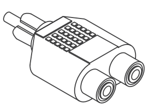

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Pomona Part No.
1	BNC Feed-Thru Termination, 50Ω	501-1036-ND	33.53	30.30	4119-50
2	BNC (Female) Isolated Ground Bulkhead Receptacle	501-1037-ND	3.02	2.73	3778
	BNC (Female) Bulkhead Receptacle, Isolated Ground, Teflon, 75Ω	501-1151-ND	2.36	2.13	6741
	BNC Female Bulkhead Receptacle, 75Ω	501-1153-ND	2.16	1.95	6745
3	Adapter, Isolated Ground BNC Female-Female	501-1038-ND	7.45	6.74	3846
	Hermetic Sealed BNC Female-Female	501-1139-ND	18.49	16.71	3847
	Isolated BNC Female to Female Panel	501-1142-ND	13.36	12.08	6705
	BNC (Female-Female) Panel Mount, Hermetically Sealed, 75Ω	501-1152-ND	3.00	2.72	6744
4	BNC “T” (Male-Female-Female) Coaxial Adapter	501-1039-ND	12.83	11.60	4896
5	BNC Female Panel Receptacle	501-1040-ND	5.78	5.22	2451
	BNC Female Panel Receptacle, 75Ω	501-1146-ND	2.52	2.28	6736
6	Adapter, Phono Jack to BNC Male	501-1096-ND	17.56	15.87	4054
7	Adapter, BNC Female to Phono Plug	501-1099-ND	6.42	5.81	5319
8	BNC Male to Dual BNC Female Straight Adapter	501-1100-ND	14.84	13.41	6700
9	BNC (Female) to Std. 1/4” Two Conductor Phone Plug	501-1128-ND	11.89	10.74	1297
10	BNC Female-Female	501-1132-ND	4.42	3.99	3283
	BNC Female-Female, 75Ω	501-1147-ND	2.44	2.21	6737

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Pomona Part No.
11	BNC “T” (Female-Female-Female)	501-1133-ND	12.83	11.60	3284
	BNC (Female-Female-Female) 75Ω	501-1148-ND	3.45	3.12	6738
12	BNC “T” (Female-Male-Female)	501-1134-ND	5.68	5.13	3285
	BNC (Female-Male-Female) 75Ω	501-1149-ND	3.45	3.12	6739
13	BNC Male-Male	501-1135-ND	2.94	2.66	3533
	BNC Male-Male, 75Ω	501-1150-ND	1.91	1.73	6740
14	BNC (Female-Male) Right Angle	501-1136-ND	8.30	7.50	3534
15	SMA Female to BNC Male	501-1140-ND	8.40	7.59	4289
16	SMA Male to BNC Female	501-1141-ND	8.25	7.46	4290
17	BNC Female to Tini-Plug	501-1138-ND	13.30	12.02	3837
18	F Type Bulkhead to Panel Feed Through	501-1143-ND	1.39	1.26	6706
19	F Type Female-Male Push-On Adapter	501-1144-ND	2.22	2.01	6713
20	BNC Male Panel Mount, 75Ω	501-1145-ND	2.91	2.63	6735
21	BNC (Female-Male-Female) In-Line, 75Ω	501-1154-ND	3.45	3.12	6754
22	BNC (Male) / F (Female), 75Ω	501-1155-ND	3.22	2.91	6779
23	BNC (Female) / F (Female), 75Ω	501-1156-ND	3.19	2.88	6780
24	BNC (Female) / F (Male), 75Ω	501-1157-ND	3.22	2.91	6781
25	BNC (Male) / F (Male), 75Ω	501-1158-ND	3.22	2.91	6782
26	F (Male-Female) Right Angle, 75Ω	501-1159-ND	2.22	2.01	6800
27	F (Male-Female) In-Line, 75Ω	501-1160-ND	1.20	1.08	6801
28	RCA (Female-Male-Female), 75Ω	501-1161-ND	1.20	1.08	6882

Probes

Dimensions: Inches (mm)

Model 6723: Features: • Test probe has a Stainless Steel sharp tip wit 8/32 threaded base • Alligator clip screws onto probe tip • Test leads fit all standard DMM with safety style banana jacks **Kit Includes:** • A set of red and black test leads • A set of red and black medium alligator test clips

Model 6341: Features: • Gold plated pogo pin tip keeps constant pressure on test point for consistent readings • Replaceable probe tips • Right angle DMM plug fits most digital multimeters **Kit Includes:** • One red probe • One black probe with a set of all tip styles, which include: *Sharp Point Gold Plated Pogo Pin Tip, Sharp Point Stainless Steel Tip, Triple Point Gold Plated Pogo Pin Tip, Quad Point Gold Plated Pogo Pin Tip and 3” (76.19mm) Long Sharp Point Stainless Steel Tip*

Model 6731: Features: • Allows user to safely make floating high voltage measurements while using general purpose oscilloscopes • Max. differential voltage up to 1000V • Differential amplifier converts and scales floating input signal to a low-voltage signal referenced to earth ground • The probe can be used on circuits associated with electronic high-power converters, motor speed controllers, switching power supplies, and other high voltage circuits requiring isolation • Switchable attenuation settings **Kit Includes:** • Large Jaw Alligator Clips (one red and one black) • Pin-Grabber Test Clips (one red and one black) • 9V Alkaline Battery

Fig. 1

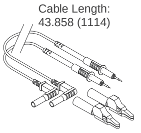

Fig. 2

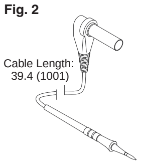

Fig. 3

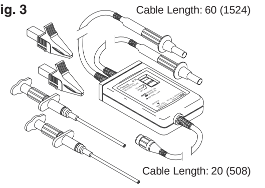

Fig.	Description	Digi-Key Part No.	Price Each 1	Price Each 10	Pomona Part No.
1	Model 6723, Test Lead Kit with 8/32 Threaded Probe Tip	501-1101-ND	33.18	29.99	6723
2	Model 6341, Replaceable Tip Precision Electronic Probe	501-1003-ND	34.48	31.16	6341
3	Model 6731, Active Differential Probe	501-1005-ND	612.66	553.61	6731
—	Power Adapter for Model 6731	501-1006-ND	106.11	95.88	6732

Adapter Kits

Universal Adapter Kit (Model 5698) Includes: • Type “N” Male and Female • BNC Male and Female • TNC Male and Female • SMA Male and Female • Coupling Adapter • Double Banana Plug • Double Binding Post

501-1034-ND **$172.44**

Maxi Universal Adapter Kit (Model 5748) Includes: • Type “N” Male and Female • BNC Male and Female • TNC Male and Female • SMA Male and Female • Coupling Nut • Double Banana Plug • UHF Male and Female • Mini UHF Male and Female • RCA Phono Male and Female • Type “F” Male and Female • Unidapt Signal Sampler

501-1035-ND **$277.34**

7/16 DIN type “N” Adapter Kit (Model 6254) Includes: • Type “N” (male) to DIN (male) • Type “N” (female) to DIN (male) • Type “N” (male) to DIN (female) • Type “N” (female) to DIN (female) • DIN (female to female) • Right Angle (male to female)

501-1121-ND **$496.89**

Oscilloscope Probes

Features: • All Probes meet IEC1010-2-031, 300V, CAT I **Probes Includes:** • Retractable Hook Tip • BNC Adapter • IC Adapter • Insulating Tip • Trimmer Tool • 6” (152.40mm) Ground Lead with Alligator Clip

Probe Ratio	System Bandwidth MHz (-3db)	Cable Length (M)	Digi-Key Part No.	Price Each 1	Price Each 10	Pomona Part No.
1;1 10:1	Up ~ 20^3 60	1.2	501-1012-ND	40.06	36.20	6266
1;1 10:1	Up ~ 15^3 100	1.2	501-1007-ND	57.72	52.16	4550B
1;1 10:1	Up ~ 20^3 200	1.2	501-1008-ND	65.97	59.61	5806A
100:1	200	2.0	501-1010-ND	106.02	95.81	5827A
10:1	250	1.2	501-1011-ND	61.27	55.37	6069A
10:1	300	1.2	501-1009-ND	111.92	101.13	5812A

(Continued)

Test Leads

Kit Features:

• Test leads with a right angle banana plug are ideal for use with hand held digital multimeter • Test accessories conveniently store in the four-fold nylon pouch • Compatible with most multimeters that accepts safety style sheath banana plugs • CE Compliant; complies with IEC 1010-2-031 standard for hand held accessories

Electrical DMM:

Model 5673B — Kit Includes *(1 red and 1 black of each):* • Modular Probe Set • Extended Fine Point • Extra Large Alligator Clip Set • Medium Alligator Clip Set • Flexible Test Lead Set • Insulated Spade Lug Set

Model 5677B — Kit Includes *(1 red and 1 black of each):* • Flexible Test Lead Set • Extra Large Alligator Clip Set • Test Lead Coupler Set • Retractable Tip Set • Spade Lug Adapter Set • IC Test Probe Tip Adapter Set • Minigrabber Test Clip Set • 0.080 Replacement Probe Tip Set • Replacement Modular Test Probe Set • Minipincer Test Clip Set • Medium Alligator Clip Set

Deluxe Electrical DMM:

Model 5904 — Kit Includes *(1 red and 1 black of each):* • Modular Probe Set • Maxigrabber Test Clip Set with Hook Tip • Maxigrabber Test Clip Set with Pincer Tip • Extra Large Alligator Clip Set • Flexible Test Lead Set • Maxigrabber Test Clip Set with Jaws

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	IEC 1010 Compliant Replacement Test Leads for Sheathed Style DMM's, Includes: One Red and One Black	501-1004-ND	12.95	11.70	5519A
2	Wide Jaw Kelvin Lead Set, Includes: One Red and One Black....	501-1102-ND	115.44	104.31	6730
	Kits				
	Electrical DMM				
—	Electrical DMM Test Lead Kit, Model 5673B .... Deluxe Multi-use DMM Maxi-Test Lead Kit, Model 5677B	501-1002-ND 501-1000-ND	55.21 114.04	49.89 103.05	5673B 5677B
	Deluxe Electrical DMM				
—	Deluxe Electrical DMM Test Lead Kit, Model 5904	501-1118-ND	100.98	91.25	5904/POM

Dimensions: Inches (mm)

Fig. 1

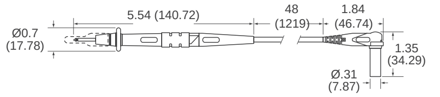

Fig. 2

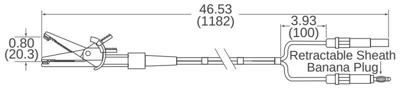

Cable Assemblies

Dimensions: Inches (mm)

Fig. 1

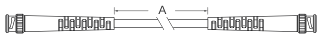

Fig. 2

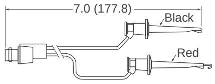

Fig. 3

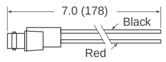

Fig. 4

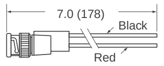

Fig. 5

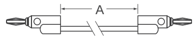

Fig. 6

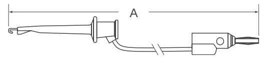

Fig. 7

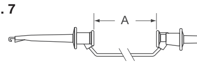

Fig. 8

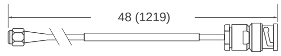

Fig. 9

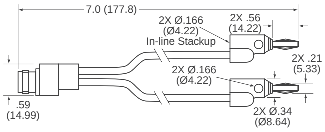

Fig. 10

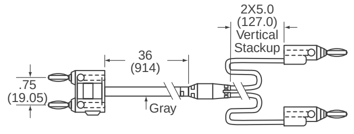

Fig. 11

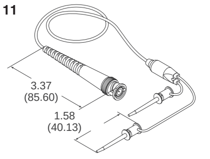

Fig. 12

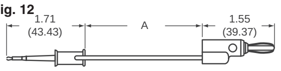

Fig. 13

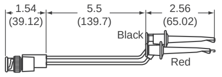

Fig. 14

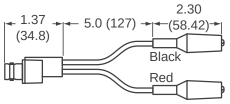

Fig. 15

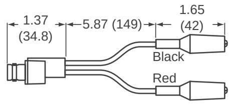

Fig. 16

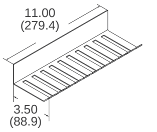

Model 2249: **Materials:** • Body: Brass, Tarnish resistant plating • Dielectric: PTFE • Center contact: Gold Plated Brass • Strain Relief: PVC molded directly to cable connectors **Ratings:** • Operating Voltage: Shield/Earth: 30VAC/60VDC maximum, Inner Conductor/Shield: 500VRMS maximum • Operating Temperature: 50°C (122°F) maximum

Model 3788: Minigrabber® test clip hooks attach to terminal sizes up to .060" diameter

Fig.	Description	Color	Dim. A (Inch)	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	BNC Male to BNC Male, RG58C/U, 50Ω	Black	12	501-1013-ND	14.24	12.87	2249-C-12
		Black	24	501-1016-ND	14.24	12.87	2249-C-24
		Black	36	501-1018-ND	14.24	12.87	2249-C-36
		Black	48	501-1019-ND	17.80	16.08	2249-C-48
		Black	60	501-1020-ND	17.80	16.08	2249-C-60
		Black	72	501-1021-ND	17.80	16.08	2249-C-72
		Black	120	501-1014-ND	21.35	19.29	2249-C-120
		Black	180	501-1015-ND	25.68	23.21	2249-C-180
		Black	300	501-1017-ND	35.01	31.64	2249-C-300
	BNC Male to BNC Male, RG59B/U, 75Ω	Black	12	501-1022-ND	15.17	13.71	2249-E-12
		Black	24	501-1024-ND	15.17	13.71	2249-E-24
		Black	36	501-1025-ND	15.17	13.71	2249-E-36
		Black	48	501-1026-ND	17.86	16.14	2249-E-48
		Black	60	501-1027-ND	17.86	16.14	2249-E-60
		Black	72	501-1028-ND	17.86	16.14	2249-E-72
		Black	120	501-1023-ND	21.46	19.40	2249-E-120
2	BNC Female to Minigrabber Test Clip Breakout	—	—	501-1029-ND	9.93	8.97	3788
3	BNC (Female) to 20AWG Leads	—	—	501-1030-ND	6.71	6.06	4969
4	BNC (Male) to 20AWG Leads	—	—	501-1031-ND	9.35	8.45	4970
5	Stacking Banana Plug both Ends	Black	12	501-1041-ND	4.61	4.17	B-12-0
		Red	12	501-1042-ND	4.61	4.17	B-12-2
		Black	18	501-1043-ND	4.61	4.17	B-18-0
		Red	18	501-1044-ND	4.61	4.17	B-18-2
		Black	24	501-1045-ND	4.61	4.17	B-24-0
		Red	24	501-1046-ND	4.61	4.17	B-24-2
		Black	36	501-1047-ND	4.61	4.17	B-36-0
		Red	36	501-1048-ND	4.61	4.17	B-36-2
		Black	48	501-1049-ND	5.10	4.61	B-48-0
		Red	48	501-1050-ND	5.10	4.61	B-48-2
		Black	72	501-1051-ND	5.10	4.61	B-72-0
		Red	72	501-1052-ND	5.10	4.61	B-72-2

Fig.	Description	Color	Dim. A (Inch)	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
6	Minigrabber Test Clip to Stacking Banana Plug	Black	12	501-1054-ND	5.51	4.98	3782-12-0
		Red	12	501-1055-ND	5.51	4.98	3782-12-2
		Black	24	501-1056-ND	5.51	4.98	3782-24-0
		Red	24	501-1057-ND	5.51	4.98	3782-24-2
		Black	36	501-1058-ND	5.51	4.98	3782-36-0
		Red	36	501-1059-ND	5.51	4.98	3782-36-2
		Black	48	501-1060-ND	5.51	4.98	3782-48-0
		Red	48	501-1061-ND	5.51	4.98	3782-48-2
7	Minigrabber Test Clip Patch Cord	Black	12	501-1062-ND	4.30	3.89	3781-12-0
		Red	12	501-1063-ND	4.30	3.89	3781-12-2
		Black	24	501-1064-ND	4.30	3.89	3781-24-0
		Red	24	501-1065-ND	4.30	3.89	3781-24-2
		Black	36	501-1066-ND	4.30	3.89	3781-36-0
		Red	36	501-1067-ND	4.30	3.89	3781-36-2
7	Minigrabber Test Clip Patch Cord Kit*	—	24	501-1068-ND	40.39	36.50	5523
8	BNC (Male) to SMA (Male), RG316/U	—	48	501-1116-ND	43.18	39.02	4935-BB-48
9	BNC (Female) to Multi-Stacking Banana Plugs	Red/Blk	—	501-1117-ND	9.63	8.70	3073
10	Double Banana Plug to Single Banana Plug Breakouts	Red/Blk	36	501-1123-ND	25.68	23.21	1368-A-36
11	BNC Male to SMD Grabber® Test Clips	Red/Blk	24† 36†	501-1162-ND 501-1163-ND	25.10 25.10	22.68 22.68	5304-K-24 5304-K-36
12	SMD Grabber® to Stacking Banana Plug	Black	12	501-1164-ND	7.42	6.71	5302-12-0
		Red	12	501-1165-ND	7.42	6.71	5302-12-2
		Black	24	501-1166-ND	7.42	6.71	5302-24-0
		Red	24	501-1167-ND	7.42	6.71	5302-24-2
		Black	36	501-1168-ND	7.42	6.71	5302-36-0
		Red	36	501-1169-ND	7.42	6.71	5302-36-2
13	BNC Male to Minigrabber Test Clip Breakout	Red/Blk	—	501-1137-ND	12.25	11.07	3789
14	BNC Female to Alligator Test Clips	Red/Blk	—	501-1130-ND	10.31	9.32	2630
15	BNC Female to Minigator Test Clips	Red/Blk	—	501-1131-ND	10.31	9.32	2631
	Test Cable Holders (Cold Rolled Steel)						
16	Accepts Cable Size Types RG 59 & RG 108	Black	—	501-1113-ND	9.61	8.69	4408/POM
	Accepts Cable Size Types RG 213 & RG 214	Blue	—	501-1114-ND	11.75	10.62	2708
	Accepts Cable Size Types RG 58 & RG 142	Orange	—	501-1053-ND	11.75	10.62	1508/POM

*** Kit contains 10 Pieces of Model 3781-24** *(One of each color: Black, Red, Brown, Orange, Yellow, Green, Blue, Violet, Gray and White)* † Overall length

(Continued)

Test Enclosures

Dimensions: Inches (mm)

Fig. 1

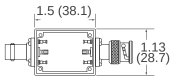

Fig. 2

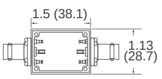

Fig. 3

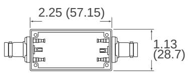

Fig. 4

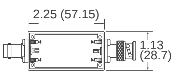

Fig. 5

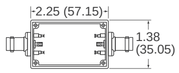

Fig. 6

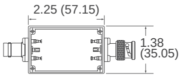

Fig. 7

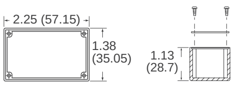

Fig. 8

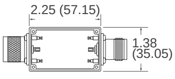

Fig. 9

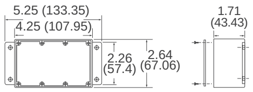

Fig. 10

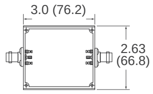

Fig. 11

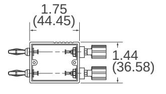

Fig. 12

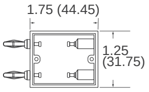

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
	Die Cast Aluminum - Blue				
1	Miniature Size Box, BNC Female to BNC Male with Cover	501-1103-ND	28.85	26.07	3752
2	Miniature Size Box, BNC Female/Female with Cover	501-1104-ND	30.63	27.68	3751
3	Size "A" Box, BNC Female/Female with Cover	501-1069-ND	25.93	23.43	2390
4	Size "A" Box, BNC Male/Female with Cover	501-1070-ND	28.29	25.56	2391
5	Size "B" Box, BNC Female/Female with Cover	501-1105-ND	24.68	22.31	3230
6	Size "B" Box, BNC Male/Female with Cover	501-1106-ND	29.80	26.93	3231

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
7	Size "B" Box Shield with Cover	501-1107-ND	8.25	7.46	2417
8	Size "B" Box, Type N Male/Female with Cover	501-1112-ND	49.47	44.70	2411
9	Size "C" Box Shielded with Cover	501-1108-ND	20.02	18.09	2901
10	Size "D" Shielded Housing, BNC Female Both Ends with Cover	501-1111-ND	34.16	30.87	3602
	Electrical Grade Phenolic - Black				
11	Box Component Mounting, Double Plug to Binding Posts w/Cover	501-1110-ND	27.90	25.22	2259
12	Box Component Mounting, Banana Jack to Double Plug w/Cover	501-1109-ND	18.61	16.82	2098

Accessories

Fig. 1

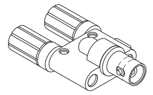

Fig. 2

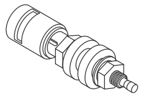

Fig. 3

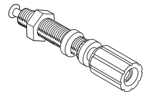

Fig. 4

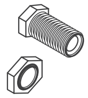

Fig. 5

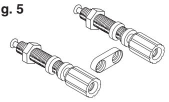

Accepts standard banana plugs

Fig. 6

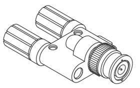

Fig. 7

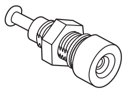

Fig. 8

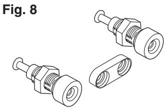

Fig. 9

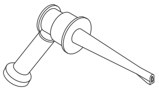

Fig. 10

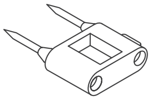

Fig. 11

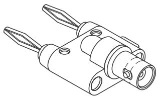

Fig. 12

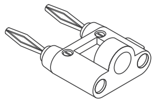

Fig. 13

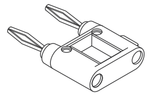

Fig. 14

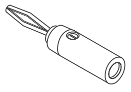

Fig. 15

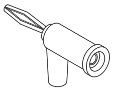

Fig. 16

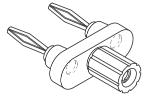

Fig. 17

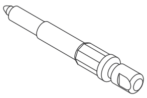

Fig. 18

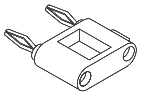

Fig. 19

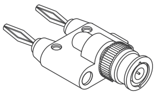

Fig. 20

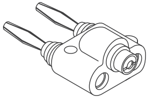

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
1	Adapter-Binding Posts to BNC Receptacle (one red, one blk)	501-1122-ND	10.86	9.81	1452
	Binding Posts				
2	Spring Loaded, Nickel Plated Brass, Black	501-1088-ND	19.84	17.93	4995-0
	Spring Loaded, Nickel Plated Brass, Red	501-1089-ND	19.84	17.93	4995-2
3	Standard, Tin Plated Brass, Black	501-1094-ND	3.02	2.73	3760-0
	Standard, Tin Plated Brass, Red	501-1095-ND	3.02	2.73	3760-2
4	Standard, Uninsulated, Nickel Plated Brass, (Pkg. of 10)	501-1115-ND	10.51	9.50	3267
5	Double Binding Post Assembly, Black	501-1126-ND	6.32	5.72	4243-0
	Jacks				
6	BNC (Male) to Double Stacking Binding Post Jack	501-1033-ND	12.95	11.70	1296
7	Insulated Pin Tip, Gold Plated, Black (Pkg. of 10)	501-1091-ND	16.33	14.76	3542-0
	Insulated Pin Tip, Gold Plated, Red (Pkg. of 10)	501-1092-ND	16.33	14.76	3542-2
	Banana				
7	Panel Mount Jack, Black (Pkg. of 10)	501-1078-ND	11.09	10.02	1581-0
	Panel Mount Jack, Brown (Pkg. of 10)	501-1079-ND	11.09	10.02	1581-1
	Panel Mount Jack, Red (Pkg. of 10)	501-1080-ND	11.09	10.02	1581-2
	Panel Mount Jack, Orange (Pkg. of 10)	501-1081-ND	11.09	10.02	1581-3
	Panel Mount Jack, Yellow (Pkg. of 10)	501-1082-ND	11.09	10.02	1581-4
	Panel Mount Jack, Green (Pkg. of 10)	501-1083-ND	11.09	10.02	1581-5
	Panel Mount Jack, Blue (Pkg. of 10)	501-1084-ND	11.09	10.02	1581-6
	Panel Mount Jack, Violet (Pkg. of 10)	501-1085-ND	11.09	10.02	1581-7
	Panel Mount Jack, Gray (Pkg. of 10)	501-1086-ND	11.09	10.02	1581-8

Fig.	Description	Digi-Key Part No.	Price Each 1	10	Pomona Part No.
7	Panel Mount Jack, White (Pkg. of 10)	501-1087-ND	11.09	10.02	1581-9
8	Miniature Insulated Jack, (one red, one black), Plate: Black	501-1124-ND	3.78	3.42	2143-0
9	Minigrabber® with Banana Jack, Black	501-1097-ND	5.11	4.62	4723-0
	Minigrabber® with Banana Jack, Red	501-1098-ND	5.11	4.62	4723-2
	Plugs				
10	Miniature Tip Plug with Shorting Bar, Black	501-1090-ND	5.15	4.65	3452-0
	Banana				
11	BNC (Female) to Double Stacking Banana Plugs	501-1032-ND	6.92	6.26	1269
12	Stackable Double with Cable Guide, Black	501-1071-ND	2.64	2.39	MDP-0
	Stackable Double with Cable Guide, Red	501-1072-ND	2.64	2.39	MDP-2
13	Double with Shorting Wire, Black	501-1073-ND	4.27	3.86	MDP-S-0
14	Solderless Stackable Type for Std., Nickel, Black (Pkg. of 10)	501-1074-ND	15.17	13.71	1325-0
	Solderless Stackable Type for Std., Nickel, Red (Pkg. of 10)	501-1075-ND	15.17	13.71	1325-2
15	Solderless Stackup with Safety Collar, Black (Pkg. of 10)	501-1076-ND	15.17	13.71	1825-0
	Solderless Stackup with Safety Collar, Red (Pkg. of 10)	501-1077-ND	15.17	13.71	1825-2
16	Encapsulated Double, Short Bar with Binding Post, Black	501-1093-ND	11.64	10.52	5165-0
17	Do-It-Yourself Retractable Sheath, with Instructions, Black	501-1119-ND	4.43	4.01	122505A
	Do-It-Yourself Retractable Sheath, with Instructions, Red	501-1120-ND	4.43	4.01	122506A
18	Miniature Shorting Bar Plug, Black	501-1125-ND	5.54	5.01	2035-0
19	BNC (Male) to Double Stacking	501-1127-ND	10.14	9.17	1270
20	Phono Jack to Double Banana Plug	501-1129-ND	13.86	12.53	1442

3M Patch Cords and Accessories

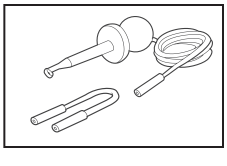

Compatible with 3M breadboards, terminal strips, super-strips, distribution strips, test clips, miniature 8-pin connectors and .025" (.64mm) square wrap posts.

- Ideal for breadboarding and troubleshooting
- Incorporate #26 AWG stranded wire with PVC insulation
- Rugged, integral strain relief
- Choices of two pin sizes — .019" and .030" (.48mm and .76mm), and two socket sizes — .019"-.028" and .028"-.035" (.48mm–.71mm and .71mm–.89mm) and E-Z Hook terminations

ASSORTMENT A (20 Pieces) — 9 pieces 2" (50.80mm) long yellow, 6 pieces 4" (101 .60mm) long blue, 3 pieces 6" (152.40mm) long red, 2 pieces 9" (228.60mm) long black.

ASSORTMENT B (10 Pieces) — 5 pieces 15" (381mm) long red, 5 pieces 15" (381mm) long black.

Pin/Socket – Size Inch	mm	Color/Length Assortment	Pieces/ Pack	Recommended Applications	Digi-Key Part No.	Price Per Pack
				Pin Plug to Pin Plug		
.019	.48	Assortment A	20	IC Sockets	924961-ND	48.48
.030	.76	Assortment A	20	Breadboard	924962-ND	48.48
				Socket to Socket		
.019/.028	.48 / .71	Assortment A	20	Extension for .019" (.48mm) Pin Plug	924963-ND	91.42
.028/.035	.71 / .89	Assortment A	20	TC to TC, TC to .025" (.64mm) Square Post	924964-ND	106.00
				Pin Plug to Socket		
.019 (.019/.028)	48(.48 / .71)	Assortment A	20	IC Socket to .019" (.48mm) Pin Plug	924965-ND	71.08
.030 (.028/.035)	.76 (.71 / .89)	Assortment A	20	Breadboard to TC, .025" (.64mm) Sq. Post	924966-ND	71.84
				Pin Plug to E-Z Hook		
.019	.48	Assortment B	10	IC Socket to TC, .025" (.64mm) Sq. Post, etc.	924967-ND	72.00
.030	.76	Assortment B	10	Breadboard to TC, .025" (.64mm) Post, etc.	924968-ND	45.84
				Socket to E-Z Hook		
.028/.035	.71 / .89	Assortment B	10	TC, .025" Post to TC, .025" (.64mm) Post, etc.	924970-ND	51.90

MUELLER

Test Equipment - Clips

Fig. 1

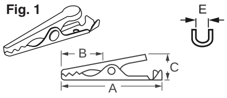

Model BU-30/BU-30C shown

Fig. 2

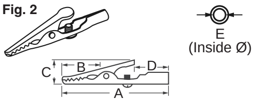

Model BU-60S/BU-60CS shown

Fig. 3

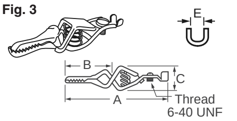

Fig. 4

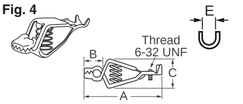

Model BU-48/BU-48C shown

Fig. 5

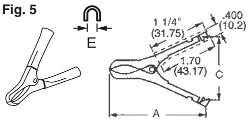

Fig	Description	Dimensions – Inch (mm) A	B	C	D	E	Jaw Opening Inch (mm)	Current Rating	Material	Connection Type	Digi-Key Part No.	Price Each	Mueller Part No.
1	Mini Alligator Clip	1-3/32 (27.78)	7/16 (11.11)	5/16 (7.94)	—	3/32 (2.38)	3/16 (4.8)	5A	Steel	Solder/Crimp	314-1010-ND	.34	BU-30
	Mini Alligator Clip	1-3/32 (27.78)	7/16 (11.11)	5/16 (7.94)	—	3/32 (2.38)	3/16 (4.8)	5A	Copper	Solder/Crimp	314-1012-ND	.42	BU-30C
	Micro Alligator Clip	1-3/32 (27.78)	3/8 (9.52)	5/16 (7.94)	—	3/32 (2.38)	7/32 (5.6)	5A	Steel	Solder/Crimp	314-1017-ND	.56	BU-34
	Micro Alligator Clip	1-3/32 (27.78)	3/8 (9.52)	5/16 (7.94)	—	3/32 (2.38)	7/32 (5.6)	5A	Copper	Solder/Crimp	314-1018-ND	.64	BU-34C
2	Mini Alligator Clip with Barrel	1-1/4" (31.75)	7/16 (11.11)	5/16 (7.94)	1/4 (6.35)	1/8 (3.17)	3/16 (4.8)	5A	Steel	Solder/Crimp	314-1011-ND	.34	BU-30BL
	Alligator Clip with Barrel	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Steel	Solder/Crimp	314-1033-ND	.43	BU-60
	Alligator Clip with Barrel and Screw	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Copper	6/40Screw	314-1034-ND	.84	BU-60CS
	Alligator Clip with Barrel and Screw	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Steel	6/40Screw	314-1035-ND	.51	BU-60S
	Alligator Clip with Barrel	1-31/32 (50.00)	5/8 (15.88)	7/16 (11.11)	3/4 (19.05)	.16 (4.06)	5/16 (7.9)	10A	Stainless Steel	Solder/Crimp	314-1036-ND	.79	BU-60X
3	Crocodile Clip	2-1/8 (53.97)	15/16 (23.81)	1/2 (12.7)	—	9/64 (3.57)	5/16 (7.9)	5A	Steel	Crimp/6-40 Screw	314-1039-ND	.63	BU-85
	Crocodile Clip	2-1/8 (53.97)	15/16 (23.81)	1/2 (12.7)	—	9/64 (3.57)	5/16 (7.9)	10A	Copper	Crimp/6-40 Screw	314-1040-ND	1.16	BU-85C
4	Heavy Duty Clip	2-27/32 (72.23)	7/16 (11.11)	1-1/8 (28.57)	—	1/4 (6.35)	3/4 (19)	25	Steel	Crimp/8-32 Screw	314-1001-ND	.99	BU-24APN
	Automotive Clip	3 (76.2)	21/32 (16.67)	15/16 (23.81)	—	9/32 (7.15)	3/4 (19)	40	Steel	Crimp/8-32 Screw	314-1002-ND	1.23	BU-25
	Automotive Clip	3 (76.2)	21/32 (16.67)	15/16 (23.81)	—	9/32 (7.15)	3/4 (19)	75	Copper	Crimp/8-32 Screw	314-1003-ND	2.25	BU-25C
	General Purpose Clip	2-7/16 (61.91)	17/32 (13.49)	11/16 (17.46)	—	3/16 (4.76)	5/8 (16)	20	Steel	Crimp/6-32 Screw	314-1006-ND	.92	BU-27
	General Purpose Clip	2-7/16 (61.91)	17/32 (13.49)	11/16 (17.46)	—	3/16 (4.76)	5/8 (16)	40	Copper	Crimp/6-32 Screw	314-1007-ND	1.21	BU-27C
	Pee-Wee Clip	1-17/32 (38.89)	1/4 (6.35)	15/32 (11.91)	—	9/64 (3.57)	5/16 (7.9)	5	Steel	Crimp/6-40 Screw	314-1021-ND	.62	BU-45
	Pee-Wee Clip	1-17/32 (38.89)	1/4 (6.35)	15/32 (11.91)	—	9/64 (3.57)	5/16 (7.9)	10	Copper	Crimp/6-40 Screw	314-1022-ND	.93	BU-45C
	Automotive Analyzer Clip	2 (50.80)	3/8 (9.52)	5/8 (15.88)	—	3/16 (4.76)	1/2 (12.7)	10	Steel	Crimp/6-32 Screw	314-1029-ND	.81	BU-48B
	Automotive Analyzer Clip	2 (50.80)	3/8 (9.52)	5/8 (15.88)	—	3/16 (4.76)	1/2 (12.7)	20	Copper	Crimp/6-32 Screw	314-1030-ND	.98	BU-48C
5	Miniature Plier-Type Clip, Black	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	50	Steel	Crimp/Solder	314-1023-ND	1.14	BU-46A-0
	Miniature Plier-Type Clip, Red	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	50	Steel	Crimp/Solder	314-1024-ND	1.14	BU-46A-2
	Miniature Plier-Type Clip, Black	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	75	Copper	Crimp/Solder	314-1025-ND	1.73	BU-46C-0
	Miniature Plier-Type Clip, Red	2-7/8 (98.42)	—	2 (50.80)	—	9/32 (7.15)	1-1/8 (28.6)	75	Copper	Crimp/Solder	314-1026-ND	1.73	BU-46C-2

Insulators

Description	Color	Use with Series	Digi-Key Part No.	Price Each	Mueller Part No.
Protective Vinyl Insulator	Black Red	BU-24APN/ 25/25C	314-1004-ND 314-1005-ND	1.14 1.14	BU-26-0 BU-26-2
Flexible Vinyl Insulator	Black Red	BU-27/27C	314-1008-ND 314-1009-ND	.73 .73	BU-29-0 BU-29-2
Tough, Flexible Vinyl Insulator	Black Red	BU-30BL	314-1013-ND 314-1014-ND	.26 .26	BU-31-0 BU-31-2
Skin-tight, Flexible Vinyl Insulator	Black Red	BU-30/30C	314-1015-ND 314-1016-ND	.26 .26	BU-32-0 BU-32-2

Description	Color	Use with Series	Digi-Key Part No.	Price Each	Mueller Part No.
Skin-tight, Flexible Vinyl Insulator	Black Red	BU-34/34C	314-1019-ND 314-1020-ND	.26 .26	BU-36-0 BU-36-2
Durable, Flexible Vinyl Insulator	Black Red	BU-45/45C	314-1027-ND 314-1028-ND	.34 .34	BU-47-0 BU-47-2
Durable, Flexible Vinyl Insulator	Black Red	BU-48B/48C	314-1031-ND 314-1032-ND	.66 .66	BU-49-0 BU-49-2
Tough, Flexible Vinyl Insulator	Black Red	BU-60/60CS/ 60/S/60X	314-1037-ND 314-1038-ND	.29 .29	BU-62-0 BU-62-2
Tough, Flexible Vinyl Insulator	Black Red	BU-85/85C	314-1041-ND 314-1042-ND	.44 .44	BU-87-0 BU-87-2

MUELLER

Test Lead and Prod Kits

All kits feature Mueller's IEC 1010 Compliant test leads and accessories.

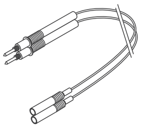

Kit 400001 - General Purpose Kit: Includes: • Insulated test lead prod-to-banana, 1 red, 1 black (1000V) • Insulated plunger-hook, 1 red, 1 black (1000V) • Insulated banana jack to standard banana plug, 1 red, 1 black (1000V)* • Mueller's most popular threaded alligator clip with insulators, 1 red, 1 black*

Part numbers 110003 through 110006 include one pair of multiple feature test prods and the following accessories: Insulator, Tip Extender, Threaded Alligator, Threaded Spade Lug and Threaded Plunger.

Description	Digi-Key Part No.	Price Each	Mueller Part No.
Test Leads and Kits			
General Purpose Kit with heavy-duty clear vinyl pouch	314-1043-ND	21.98	400001
Unshrouded Right Angle Banana Plug Kit	314-1050-ND	11.58	110003
Shrouded Right Angle Banana Plug Pair of Leads	314-1055-ND	10.43	110009
Shrouded Right Angle Banana Plug Kit	314-1051-ND	11.58	110004
Unshrouded Banana Plug Pair of Leads	314-1056-ND	9.40	110011
Unshrouded Banana Plug Kit	314-1052-ND	11.58	110005
Shrouded Banana Plug Pair of Leads	314-1054-ND	8.45	110007
Shrouded Banana Plug Kit	314-1053-ND	11.58	110006
Unshrouded Banana Plug, Pair of Leads Needle Point	314-1057-ND	10.78	110012

* IEC 1010 standard and Ⓤ does not apply

CUI INC

Alligator Clips

Fig. 1

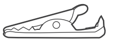

Fig. 2

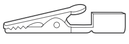

Fig. 3 – Large w/ Screw Connector

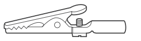

Fig. 4 – Small w/ Solder Connector

Fig. 5 – X-Large Barrel Type w/ Solder Connector

Fig. 6

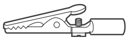

Fig.	Description	Color	Size	Digi-Key Part No.	Price Each 1	10	100
1	Without Cover	—	27mm	CP-2400-ND	.36	.30	.23
1	Without Cover	—	35mm	CP-2401-ND	.36	.30	.23
1	Without Cover	—	44mm	CP-2402-ND	.36	.30	.23
2	Without Cover	—	50mm	CP-2403-ND	.40	.33	.25
3	With Wire Terminals	—	50mm	CP-2404-ND	.44	.36	.28
1	With Screw	—	44mm	CP-2405-ND	.44	.36	.28
4	With Cover	Black	27mm	CP-2406-ND	.44	.36	.28
4	With Cover	Red	27mm	CP-2407-ND	.44	.36	.28
5	With Cover	Black	35mm	CP-2408-ND	.44	.36	.28
	With Cover	Red	35mm	CP-2409-ND	.44	.36	.28
	With Cover	Black	44mm	CP-2410-ND	.52	.43	.33
	With Cover	Red	44mm	CP-2411-ND	.52	.43	.33
	With Screw & Cover	Black	44mm	CP-2412-ND	.60	.49	.38
	With Screw & Cover	Red	44mm	CP-2413-ND	.60	.49	.38
6	With Handle	Black Red	50mm	CP-2414-ND CP-2415-ND	.52 .52	.43 .43	.33 .33

3M Electronic Specialty Products

Probe-It

Specifications: Contact: Phosphor bronze, Solder Type Termination. **Body:** Nylon. 3M new series of Probe-It™ plunger-actuated clips make test connections to individual component leads faster and easier. Simply press cap to extend the hook contact, place on component lead or wire under test, and release for hands-free troubleshooting and circuit testing. When removed from the lead the hook contact retracts into the plastic tip to minimize the possibility of shorting components. **Suggested Wire:** 26AWG (7-Strand, Tinned copper wire.

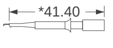

MICRO

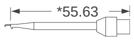

MINI

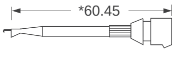

STANDARD

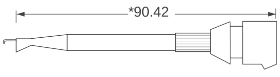

MAXI

Description	Color	Digi-Key Part No.	Price / Pkg.
Micro Probe-It*	Red	923830-RD-ND	8.04
	Black	923830-BK-ND	8.04
	Blue	923830-BU-ND	8.04
	Green	923830-GN-ND	8.04
	Yellow	923830-YL-ND	8.04
	White	923830-WT-ND	8.04
Mini Probe-It*	Red	923835-RD-ND	7.76
	Black	923835-BK-ND	7.76
	Green	923835-GN-ND	7.76
	Yellow	923835-YL-ND	7.76
	White	923835-WT-ND	7.76
Standard Probe-It*	Red	923840-RD-ND	13.00
	Black	923840-BK-ND	13.00
Maxi Probe-It*	Red	923845-RD-ND	9.30
	Black	923845-BK-ND	13.00
Micro Probe-It Assort. †	1 of each	923848-ND	13.67
Mini Probe-It Assort. †	1 of each	923850-ND	14.17

* 2 per package † 6 per package

GC ELECTRONICS

Jumper Wire Test Leads

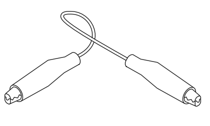

Handy test leads with insulated alligator clips attached to each end. Each package contains black, red, white, green and yellow jumpers.

Description	Digi-Key Part No.	Price
Standard Test Leads, 2 Each, 15" (38.10cm) long 27 AWG wires (10 Pkg.)	GC396-ND	6.44
Heavy Duty Test Leads, 1 Each, 22" (55.88cm) long 21 AWG wires (5 Pkg.)	GC397-ND	6.91

E-Z-HOOK Electronic Test Accessories

Hooks

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White)

Dim: Inches

Fig. 1 – Double Hook, .025” Spacing

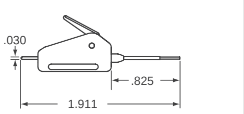

Fig. 2 – Pico-Hook

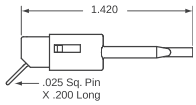

Fig. 3 – Micro-Hook

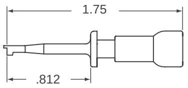

Fig. 4 – Double Micro-Hook

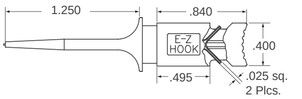

Fig. 5 – Mini-Hook

X100W and XR

XL

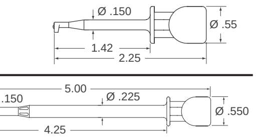

Fig. 6 – Macro-Hook

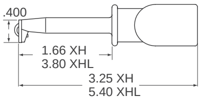

Fig. 7 – Macro-Hook, Insulation Piercing

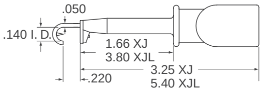

Fig. 8 – Insulation Piercing

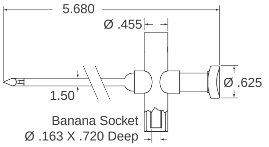

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	 100	 250	E-Z-Hook Part No.
1	.006” Dia. Wire Double Hook, .025” Spacing	Black	461-1000-ND	15.44	13.95	12.37	X2015 BLK
		Red	461-1001-ND	15.44	13.95	12.37	X2015 RED
2	Pico-Hook with .025” Square Pin Gold Plated	Black	461-1002-ND	3.05	2.76	2.45	P25 BLK
		Red	461-1003-ND	3.05	2.76	2.45	P25 RED
3	Micro-Hook Test Connector	Black	461-1004-ND	1.74	1.58	1.40	XM BLK
		Red	461-1005-ND	1.74	1.58	1.40	XM RED
		Set/10	461-1006-ND	17.43	15.75	13.97	XM-S
	Micro-Hook with .025” Square Pin	Black	461-1007-ND	3.04	2.75	2.44	XM25 BLK
		Red	461-1008-ND	3.04	2.75	2.44	XM25 RED
4	E-Z-Micro Double Gripper	Black	461-1009-ND	2.52	2.28	2.03	XKM BLK
		Red	461-1010-ND	2.52	2.28	2.03	XKM RED
		Gray	461-1011-ND	2.52	2.28	2.03	XKM GRAY
		Set/10	461-1012-ND	25.23	22.80	20.22	XKM-S
5	Mini-Hook Test Connector	Black	461-1013-ND	1.64	1.49	1.32	X100W BLK
		Red	461-1014-ND	1.64	1.49	1.32	X100W RED
		Set/10	461-1015-ND	16.58	14.99	13.29	X100W-S
	Mini-Hook Test Connector, Extended	Black	461-1016-ND	3.32	3.00	2.66	XL1 BLK
		Red	461-1017-ND	3.32	3.00	2.66	XL1 RED
	Mini-Hook XR, Heavy Duty Hook	Black	461-1018-ND	1.98	1.79	1.59	XR BLK
		Red	461-1019-ND	1.98	1.79	1.59	XR RED
6	Macro-Hook Test Connector	Black	461-1020-ND	5.21	4.71	4.18	XH BLK
		Red	461-1021-ND	5.21	4.71	4.18	XH RED
	Macro-Hook Connector, Extended	Black	461-1022-ND	5.54	5.01	4.45	XHL BLK
		Red	461-1023-ND	5.54	5.01	4.45	XHL RED
7	Macro-Hook Piercing Connector	Black	461-1024-ND	6.24	5.64	5.01	XJ BLK
		Red	461-1025-ND	6.24	5.64	5.01	XJ RED
	Macro-Hook Piercing Connector, Extended	Black	461-1026-ND	6.94	6.27	5.56	XJL BLK
		Red	461-1027-ND	6.94	6.27	5.56	XJL RED
8	Insulation Piercing Test Connector	Black	461-1028-ND	11.16	10.08	8.94	XEL BLK
		Red	461-1029-ND	11.16	10.08	8.94	XEL RED

Panel Mounts

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White)

Dim: Inches

Fig. 1 – Banana Jack

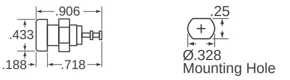

Fig. 2 – Double Banana Jack

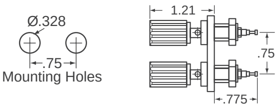

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	 100	 250	E-Z-Hook Part No.
1	Standard Banana Jack	Red/Black	461-1215-ND	2.62	2.37	2.11	9284 R/B
	Standard Banana Jack	Set/10	461-1216-ND	11.89	10.74	9.53	9284-S
2	Double Standard Banana Jack with Binding Post	Red/Black	461-1217-ND	6.52	5.90	5.23	9406

Adapters

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White)

Dim: Inches

Fig. 1 – Mini-Banana Jack to Alligator

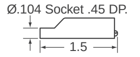

Fig. 2 – Jack to Alligator

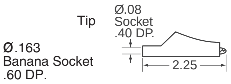

Fig. 3 – Tip Jack to Banana Plug

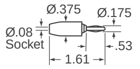

Fig. 4 – Banana Jack to .080 Tip Pin

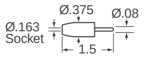

Fig. 5 – BNC to Double Banana Plug

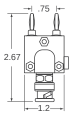

Fig. 6 – Double Banana Jack to Plug

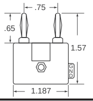

Fig. 7 – Hook to Banana Jack

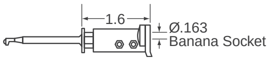

Fig. 8 – Banana Jack to Flexible Pin or Socket

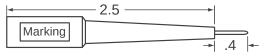

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	 100	 250	E-Z-Hook Part No.
1	Miniature Banana Jack to Miniature Alligator	Red/Black Set/10	461-1281-ND	39.67	35.85	31.79	8048-S
2	Standard Tip Jack to Standard Alligator Clip	Red/Black	461-1207-ND	3.95	3.57	3.17	8014 R/B
	Standard Banana Jack to Standard Alligator Clip	Red/Black	461-1208-ND	1.49	1.35	1.20	8016 R/B
3	Tip Jack in Standard Banana Plug	Red/Black	461-1205-ND	5.68	5.13	4.55	8012 R/B
4	Standard Banana Jack to Tip Pin	Red/Black	461-1206-ND	3.62	3.27	2.90	8018 R/B
5	BNC Female to Standard Double Banana Plug	Black	461-1278-ND	6.51	5.88	5.22	9225
	BNC Male to Standard Double Banana Plug	Black	461-1279-ND	7.20	6.51	5.78	9248
6	Stacking Double Banana Plug	Black	461-1237-ND	3.92	3.54	3.14	DB750BLK
7	Mini-Hook w/ Standard Banana Jack Plunger	Red/Black	461-1218-ND	8.23	7.44	6.60	8036 R/B
	Mini-Hook XR w/ Standard Banana Jack Plunger	Red/Black	461-1219-ND	8.90	8.04	7.13	8037 R/B
	Mini-Hook XL w/ Standard Banana Jack Plunger	Red/Black	461-1220-ND	12.52	11.31	10.03	8038 R/B

E-Z-Flex™ Test

Banana socket end is brass tin plated. All other contact ends are gold plated.

Fig.	AWG	Contact Dia. Inches	Type Contact	Color	Digi-Key Part No.	Price Each 1	 100	 250	E-Z-Hook Part No.
8	22	.030	Socket	Red	461-1221-ND	5.16	4.67	4.14	9334 RED
	22	.030	Pin	Red	461-1229-ND	3.90	3.53	3.13	9338 RED
	22	.030	Socket	Black	461-1222-ND	5.16	4.67	4.14	9334 BLK
	22	.030	Pin	Black	461-1230-ND	3.90	3.53	3.13	9338 BLK
	20	.040	Socket	Red	461-1223-ND	3.90	3.53	3.13	9335 RED
	20	.040	Pin	Red	461-1231-ND	4.30	3.89	3.45	9339 RED
	20	.040	Socket	Black	461-1224-ND	3.90	3.53	3.13	9335 BLK
	20	.040	Pin	Black	461-1232-ND	4.30	3.89	3.45	9339 BLK
	16	.062	Socket	Red	461-1225-ND	4.30	3.89	3.45	9336 RED
	16	.062	Pin	Red	461-1233-ND	3.52	3.18	2.82	9340 RED
	16	.062	Socket	Black	461-1226-ND	4.30	3.89	3.45	9336 BLK
	16	.062	Pin	Black	461-1234-ND	3.52	3.18	2.82	9340 BLK
	12	.094	Socket	Red	461-1227-ND	6.66	6.02	5.34	9337 RED
	12	.094	Pin	Red	461-1235-ND	3.52	3.18	2.82	9341 RED
	12	.094	Socket	Black	461-1228-ND	6.66	6.02	5.34	9337 BLK
	12	.094	Pin	Black	461-1236-ND	3.52	3.18	2.82	9341 BLK

Connectors

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White)

Dim: Inches

Fig. 1 – Shrouded Banana Plug

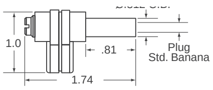

Fig. 2 – Banana Plug

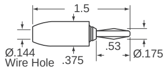

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	 100	 250	E-Z-Hook Part No.
1	Shrouded Right Angle Std. Banana Plug	Red/Black	461-1204-ND	8.17	7.38	6.55	9302 R/B
2	Standard Banana Plug	Red/Black	461-1214-ND	2.62	2.37	2.11	9202 R/B
		Set/10	461-1213-ND	11.89	10.74	9.53	9202-S

Probes

Features:
- Lead Wire: 18AWG, (65 x 36) T.C.Flexible PVC insulation.

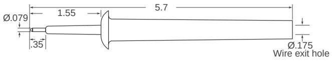

Dim: Inches

Description	Length (Inches)	Color	Digi-Key Part No.	Price Each 1	 100	 250	E-Z-Hook Part No.
Pin Tip Probe	—	Red/Black	461-1209-ND	5.74	5.19	4.61	30 R/B
Pin Tip with Standard Banana Jack	—	Red/Black	461-1210-ND	7.04	6.36	5.64	31 R/B
Needle Tip Probe	—	Red/Black	461-1211-ND	5.74	5.19	4.61	34 R/B
Needle Tip with Standard Banana Jack	—	Red/Black	461-1212-ND	7.04	6.36	5.64	35 R/B
Test Probe to Standard Banana Plug	36	Red/Black	461-1183-ND	12.15	10.98	9.74	658-36 R/B
Test Probe to Shrouded Std. Banana Plug	36	Red/Black	461-1184-ND	14.44	13.05	11.58	666-36 R/B
Test Probe to Standard Alligator Clip	36	Red/Black	461-1185-ND	12.25	11.07	9.82	669-36 R/B
Test Probe to Shrouded Std. Banana Plug	36	Red/Black	461-1186-ND	14.44	13.05	11.58	63334-36 R/B

(Continued)

Test Leads

Tinned copper with flexible PVC insulation. **Dim: Inches**

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White) (**Set/2:** 1 each of: Black and Red)
(**Set/5R:** 1 each of: Red, Blue, White, Purple, Gray) (**Set/5B:** 1 each of : Black, Brown, Green, Yellow, Orange)

Fig. 1 – Pico-Hook

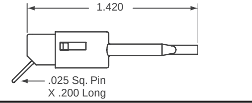

Fig. 2 – Micro-Hook

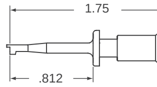

Fig. 3 – Mini-Hook

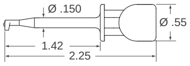

X100W and XR

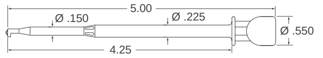

Fig. 4 – Mini-Alligator

Fig. 5 – Standard Alligator

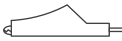

Fig.	Description	AWG	Color	Length (Inches)	Digi-Key Part No.	Price Each			E-Z-Hook Part No.
						1	100	250	
Hook Test Leads									
1	E-Z Pico-Hook to Pico-Hook	28 (19 x 40)	Black	12	461-1042-ND	5.00	4.52	4.01	P704-12 BLK
			Red	12	461-1043-ND	5.00	4.52	4.01	P704-12 RED
	Pico-Hook to .025” Square Socket	28 (19 x 40)	Set/2	12	461-1165-ND	8.60	7.77	6.89	P703-12 R/B
			Set/10	12	461-1166-ND	42.99	38.85	34.45	P703-12-S
	Pico-Hook to Lead Only	28 (19 x 40)	Set/2	12	461-1167-ND	6.11	5.52	4.90	P713-12 R/B
			Set/10	12	461-1168-ND	30.54	27.60	24.48	P713-12-S
2	Micro-Hook to Micro-Hook	22 (65 x 40)	Black	12	461-1036-ND	4.30	3.89	3.45	204XM-12 BLK
			Red	12	461-1037-ND	4.30	3.89	3.45	204XM-12 RED
			Set/10	12	461-1038-ND	42.99	38.85	34.45	204XM-12-S
			Black	24	461-1039-ND	4.30	3.89	3.45	204XM-24 BLK
			Red	24	461-1040-ND	4.30	3.89	3.45	204XM-24 RED
			Set/10	24	461-1041-ND	42.99	38.85	34.45	204XM-24-S
	Micro-Hook to Std. Banana Plug	22 (65 x 40)	Black	18	461-1044-ND	3.95	3.57	3.17	BXM-18 BLK
			Red	18	461-1045-ND	3.95	3.57	3.17	BXM-18 RED
			Set/2	18	461-1046-ND	7.90	7.14	6.34	BXM-18 R/B
			Set/10	18	461-1149-ND	39.51	35.70	31.66	BXM-18-S
			Black	36	461-1047-ND	3.95	3.57	3.17	BXM-BLK
			Red	36	461-1048-ND	3.95	3.57	3.17	BXM-RED
			Set/2	36	461-1049-ND	7.90	7.14	6.34	BXM-R/B
			Set/10	36	461-1150-ND	39.51	35.70	31.66	BXM-S
3	Mini-Hook to Mini-Hook	22 (65 x 40)	Black	12	461-1030-ND	4.03	3.65	3.24	204-12W BLK
			Red	12	461-1031-ND	4.03	3.65	3.24	204-12W RED
			Set/10	12	461-1032-ND	40.34	36.45	32.32	204-12W-S
			Black	24	461-1033-ND	4.03	3.65	3.24	204-24W BLK
			Red	24	461-1034-ND	4.03	3.65	3.24	204-24W RED
			Set/10	24	461-1035-ND	40.34	36.45	32.32	204-24W-S
			Black	36	461-1147-ND	4.03	3.65	3.24	204-36W BLK
			Red	36	461-1146-ND	4.03	3.65	3.24	204-36W RED
			Set/10	36	461-1148-ND	40.34	36.45	32.32	204-36W-S
	Mini-Hook to Std. Banana Plug	22 (65 x 40)	Black	18	461-1050-ND	3.87	3.50	3.10	BX1W-18 BLK
			Red	18	461-1051-ND	3.87	3.50	3.10	BX1W-18 RED
			Set/2	18	461-1052-ND	7.74	6.99	6.20	BX1W-18 R/B
			Set/10	18	461-1151-ND	38.18	34.50	30.59	BX1W-18-S
			Black	36	461-1053-ND	3.87	3.50	3.10	BX1W-BLK
			Red	36	461-1054-ND	3.87	3.50	3.10	BX1W-RED
			Set/2	36	461-1055-ND	7.74	6.99	6.20	BX1W-R/B
			Set/10	36	461-1152-ND	38.18	34.50	30.59	BX1W-S
	Mini-Hook to Stacking Banana Plug	18 (65 x 36)	Black	18	461-1056-ND	5.33	4.82	4.27	601W-18 BLK
			Red	18	461-1057-ND	5.33	4.82	4.27	601W-18 RED
			Set/2	18	461-1058-ND	10.66	9.63	8.54	601W-18 R/B
			Set/10	18	461-1153-ND	53.12	48.00	42.56	601W-18-S
			Black	36	461-1059-ND	5.33	4.82	4.27	601W-36 BLK
			Red	36	461-1060-ND	5.33	4.82	4.27	601W-36 RED
			Set/2	36	461-1061-ND	10.66	9.63	8.54	601W-36 R/B
			Set/10	36	461-1154-ND	53.12	48.00	42.56	601W-S
	Mini-Hook to Shrouded Right Angle Standard Banana Plug	18 (65 x 36)	Black	36	461-1062-ND	5.40	4.88	4.33	633W-36 BLK
			Red	36	461-1063-ND	5.40	4.88	4.33	633W-36 RED
			Set/2	36	461-1064-ND	10.79	9.75	8.65	633W-36 R/B
			Black	48	461-1065-ND	6.26	5.66	5.02	633W-48 BLK
			Red	48	461-1066-ND	6.26	5.66	5.02	633W-48 RED
			Set/2	48	461-1067-ND	12.52	11.31	10.03	633W-48 R/B
	XR Heavy Duty Mini-Hook to Stacking Banana Plug	18 (65 x 36)	Black	18	461-1156-ND	5.46	4.94	4.38	601XR-18 BLK
			Red	18	461-1155-ND	5.46	4.94	4.38	601XR-18 RED
			Set/5B	18	461-1157-ND	27.31	24.68	21.88	601XR-18 5B
			Set/5R	18	461-1158-ND	27.31	24.68	21.88	601XR-18 5R
			Set/10	18	461-1159-ND	54.61	49.35	43.76	601XR-18-S
	XR Heavy Duty Mini-Hook to XR Mini-Hook	18 (65 x 36)	Black	18	461-1161-ND	5.33	4.82	4.27	604XR-18 BLK
			Red	18	461-1160-ND	5.33	4.82	4.27	604XR-18 RED
			Set/5B	18	461-1162-ND	26.64	24.08	21.35	604XR-18 5B
			Set/5R	18	461-1163-ND	26.64	24.08	21.35	604XR-18 5R
			Set/10	18	461-1164-ND	53.29	48.15	42.70	604XR-18-S
Alligator Clip Test Leads									
4	Mini-Alligator Clip to Mini-Alligator Clip Jumper	22 (65 x 40)	Set/2	12	461-1169-ND	6.54	5.91	5.25	284M-12 R/B
			Set/10	12	461-1170-ND	32.70	29.55	26.21	284M-12-S
			Set/2	36	461-1171-ND	6.54	5.91	5.25	284M-36 R/B
			Set/10	36	461-1172-ND	32.70	29.55	26.21	284M-36-S
5	Std. Alligator Clip to Stacking Banana Clip	18 (65 x 36)	Set/2	36	461-1173-ND	9.69	8.76	7.77	681 R/B
			Set/10	36	461-1174-ND	48.14	43.50	38.57	681-S
	Std. Alligator Clip to Std. Alligator Jumper	18 (65 x 36)	Set/2	12	461-1175-ND	8.20	7.41	6.58	684-12 R/B
			Set/10	12	461-1176-ND	41.00	37.05	32.86	684-12-S
			Set/2	24	461-1177-ND	8.20	7.41	6.58	684-24 R/B
			Set/10	24	461-1178-ND	41.00	37.05	32.86	684-24-S
			Set/2	36	461-1179-ND	8.20	7.41	6.58	684-36 R/B
			Set/10	36	461-1180-ND	41.00	37.05	32.86	684-36-S
			Set/2	60	461-1181-ND	9.86	8.91	7.91	684-60 R/B
			Set/10	60	461-1182-ND	49.30	44.55	39.51	684-60-S

Patch Cords

Tinned copper with flexible PVC insulation.

(**Set/10:** 1 each of: Brown, Black, Red, Orange, Yellow, Green, Blue, Violet, Gray, White)

Description	AWG	Color	Length (Inches)	Digi-Key Part No.	Price Each			E-Z-Hook Part No.
					1	100	250	
Standard Banana Plug to Standard Banana Plug	22 (65 x 40)	Black	18	461-1068-ND	3.59	3.24	2.88	9105-18 BLK
		Red	18	461-1069-ND	3.59	3.24	2.88	9105-18 RED
		Black	36	461-1070-ND	3.59	3.24	2.88	9105-36 BLK
		Red	36	461-1071-ND	3.59	3.24	2.88	9105-36 RED
Stacking Banana Plug with Heavy Wire to Stacking Banana Plug	18 (65 x 36)	Black	8	461-1123-ND	5.94	5.37	4.77	9111-8 BLK
		Red	8	461-1122-ND	5.94	5.37	4.77	9111-8 RED
		Set/10	8	461-1124-ND	58.10	52.50	46.55	9111-8-S
		Black	12	461-1126-ND	5.94	5.37	4.77	9111-12 BLK
		Red	12	461-1125-ND	5.94	5.37	4.77	9111-12 RED
		Set/10	12	461-1127-ND	58.10	52.50	46.55	9111-12-S
		Black	18	461-1072-ND	6.03	5.45	4.83	9111-18 BLK
		Red	18	461-1073-ND	6.03	5.45	4.83	9111-18 RED
		Black	24	461-1129-ND	6.03	5.45	4.83	9111-24 BLK
		Red	24	461-1128-ND	6.03	5.45	4.83	9111-24 RED
		Set/10	24	461-1130-ND	59.76	54.00	47.88	9111-24-S
		Black	36	461-1074-ND	6.03	5.45	4.83	9111-36 BLK
		Red	36	461-1075-ND	6.03	5.45	4.83	9111-36 RED
		Set/10	36	461-1131-ND	59.76	54.00	47.88	9111-36-S
		Black	48	461-1133-ND	6.44	5.82	5.17	9111-48 BLK
		Red	48	461-1132-ND	6.44	5.82	5.17	9111-48 RED
		Set/10	48	461-1134-ND	63.08	57.00	50.54	9111-48-S
		Black	60	461-1136-ND	6.44	5.82	5.17	9111-60 BLK
		Red	60	461-1135-ND	6.44	5.82	5.17	9111-60 RED
		Set/10	60	461-1137-ND	63.08	57.00	50.54	9111-60-S
		Black	72	461-1139-ND	6.64	6.00	5.32	9111-72 BLK
		Red	72	461-1138-ND	6.64	6.00	5.32	9111-72 RED
		Set/10	72	461-1140-ND	65.57	59.25	52.54	9111-72-S
.030” Diameter Socket to .030” Diameter Socket	22 (65 x 40)	Black	12	461-1076-ND	4.00	3.62	3.21	9860-12 BLK
		Red	12	461-1077-ND	4.00	3.62	3.21	9860-12 RED
		Black	24	461-1078-ND	4.00	3.62	3.21	9860-24 BLK
		Red	24	461-1079-ND	4.00	3.62	3.21	9860-24 RED
.030” Diameter Socket to Standard Banana Plug	22 (65 x 40)	Black	24	461-1080-ND	3.74	3.38	3.00	9861-24 BLK
		Red	24	461-1081-ND	3.74	3.38	3.00	9861-24 RED
		Black	24	461-1084-ND	4.22	3.81	3.38	9863-24 BLK
		Red	24	461-1085-ND	4.22	3.81	3.38	9863-24 RED
.030” Diamater Socket to Mini Alligator Clip	22 (65 x 40)	Black	24	461-1086-ND	3.69	3.33	2.96	9864-24 BLK
		Red	24	461-1087-ND	3.69	3.33	2.96	864-24 RED
.030” Diamater Socket to Stacking Banana Plug	22 (65 x 40)	Black	24	461-1090-ND	4.80	4.34	3.85	9867-24 BLK
		Red	24	461-1091-ND	4.80	4.34	3.85	9867-24 RED
.030” Diamater Socket to Standard Alligator Clip	22 (65 x 40)	Black	24	461-1092-ND	3.88	3.51	3.12	9868-24 BLK
		Red	24	461-1093-ND	3.88	3.51	3.12	9868-24 RED
.025” to .025” Square Socket Gold Plated	22 (65 x 40)	Black	12	461-1094-ND	3.37	3.05	2.70	9110-12 BLK
		Red	12	461-1095-ND	3.37	3.05	2.70	9110-12 RED
		Set/10	12	461-1141-ND	33.20	30.00	26.60	9110-12-S
		Black	24	461-1096-ND	3.37	3.05	2.70	9110-24 BLK
		Red	24	461-1097-ND	3.37	3.05	2.70	9110-24 RED
		Set/10	24	461-1142-ND	33.20	30.00	26.60	9110-24-S
.025” Square Socket to Standard Banana Socket	22 (65 x 40)	Black	24	461-1098-ND	3.83	3.47	3.08	9163-24 BLK
		Red	24	461-1099-ND	3.83	3.47	3.08	9163-24 RED
.025” Square Socket to Standard Banana Plug	22 (65 x 40)	Black	24	461-1100-ND	3.59	3.24	2.88	9166-24 BLK
		Red	24	461-1101-ND	3.59	3.24	2.88	9166-24 RED
.025” Square Socket to .080” Pin Plug	22 (65 x 40)	Black	24	461-1102-ND	3.45	3.12	2.77	9167-24 BLK
		Red	24	461-1103-ND	3.45	3.12	2.77	9167-24 RED
.025” Square Socket to Stacking Banana Plug	22 (65 x 40)	Black	24	461-1104-ND	3.75	3.39	3.01	9169-24 BLK
		Red	24	461-1105-ND	3.75	3.39	3.01	9169-24 RED
.025” Square Socket to Standard Alligator Clip	22 (65 x 40)	Black	24	461-1108-ND	3.37	3.05	2.70	9172-24 BLK
		Red	24	461-1109-ND	3.37	3.05	2.70	9172-24 RED
.025” Square Socket to Mini Alligator Clip	22 (65 x 40)	Black	24	461-1110-ND	3.37	3.05	2.70	9173-24 BLK
		Red	24	461-1111-ND	3.37	3.05	2.70	9173-24 RED

Flexible Test Lead Wires

Features: • PVC Insulated • 100 Feet Length • Temperature: 105°C (200 Series: 60°C UL) • Tinned copper

Description	AWG	Insulation Thickness (Inches)	WV DC	Nom. O.D. (Inches)	Digi-Key Part No.	Price Each			E-Z-Hook Part No.
						1	100	250	
200 Series	22 (65 x 40)	.018	1000 (300UL)	.070	461-1114-ND	29.47	26.63	23.61	9504-100FT BLK
					461-1115-ND	29.47	26.63	23.61	9504-100FT RED
500 Series	20 (105 x 40)	.020	1000	.080	461-1116-ND	32.37	29.25	25.94	9505-100FT BLK
					461-1117-ND	32.37	29.25	25.94	9505-100FT RED
600 Series	18 (65 x 36)	.045	5000	.144	461-1118-ND	37.35	33.75	29.93	9506-100FT BLK
					461-1119-ND	37.35	33.75	29.93	9506-100FT RED
700 Series	28 (19 x 40)	.015	600	.047	461-1112-ND	19.92	18.00	15.96	9501-100FT BLK
					461-1113-ND	19.92	18.00	15.96	9501-100FT RED

Test Cable Wall Brackets

Dim: Inches

13 Slot Bracket

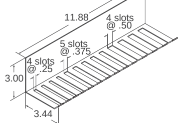

Features:

- Material: Steel
- Finish: Blue Powder Coat

Description	Digi-Key Part No.	Price Each			E-Z-Hook Part No.
		1	10	50	
6 Slot Bracket	461-1120-ND	7.89	7.13	6.32	WB6
13 Slot Bracket	461-1121-ND	10.79	9.75	8.65	WB14

(Continued)

E-Z-HOOK Electronic Test Accessories *(Cont.)*

Coaxial Test Cables

Male Connectors: Brass body and fittings, teflon insulators, silver or gold plated brass contact, bright tarnish resistant metal alloy finish.
Female Connectors: Brass body and fittings, teflon insulators, silver or gold plated berylium copper contact, bright tarnish resistant metal alloy finish.

Dim: Inches

Fig. 1

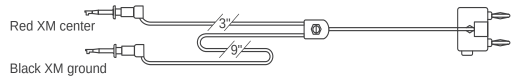

Fig. 2

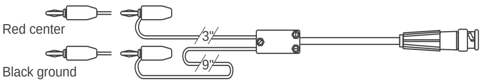

Fig. 3

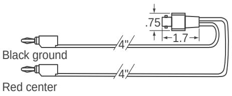

Fig. 4

1025 Series Shown

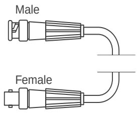

Fig.	Description	Cable	Center	Ground	Length (Inches)	Digi-Key Part No.	Price Each 1	100	250	E-Z-Hook Part No.
1	Stacking Double Banana to XM Hook	RG58C/U	XM	XM	36	461-1193-ND	14.94	13.50	11.97	1050XM-36
2	BNC Male to Stacking Banana Plug	RG58C/U	Stacking Banana	Stacking Banana	18	461-1203-ND	15.77	14.25	12.64	1224-18
	BNC Male to X100W Hook	RG58C/U	X100W	X100W	30	461-1189-ND	14.94	13.50	11.97	1020-30
	BNC Male to X100W Hook	RG58C/U	X100W	X100W	60	461-1190-ND	16.19	14.63	12.97	1020-60
	BNC Male to XR Hook	RG58C/U	XR	XR	18	461-1191-ND	14.94	13.50	11.97	1020XR-18
	BNC Male to XR Hook	RG58C/U	XR	XR	36	461-1192-ND	15.36	13.88	12.31	1020XR-36
3	BNC Breakout Female to X100W Hook	20AWG (105 x 40)	X100W	X100W	9/3	461-1187-ND	10.99	9.93	8.81	1001
	BNC Breakout Female to Stacking Banana Plug	18AWG (65 x 36)	Stacking Banana	Stacking Banana	4/4	461-1188-ND	12.85	11.61	10.30	1002
4	BNC Male to BNC Male with Strain Relief Boots	RG58C/U	— — —	— — —	18 36 60	461-1194-ND 461-1195-ND 461-1196-ND	13.73 14.33 15.12	12.41 12.95 13.67	11.00 11.48 12.12	1026-18 1026-36 1026-60
	BNC Female to BNC Male with Strain Relief Boots	RG58C/U	— — —	— — —	18 36 60	461-1197-ND 461-1198-ND 461-1199-ND	18.68 19.34 20.34	16.88 17.48 18.38	14.97 15.50 16.30	1025-18 1025-36 1025-60
	BNC Female to BNC Female with Strain Relief Boots	RG58C/U	—	—	60	461-1202-ND	20.34	18.38	16.30	1024-60

AVEN Microscopes

NEW! Pocket Microscope with Built-in Light

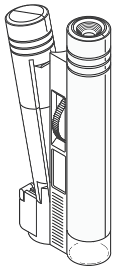

Perfect "Carry With" Microscope with a built in light source. (requires two AA batteries-not included).

Specifications:

- Magnification: 40x
- Field of View: 4.4mm
- Scale Calibration: 0.05mm
- Maximum Measurement: 4mm

243-1047-ND.. **$49.95**

NEW! Pocket Microscope

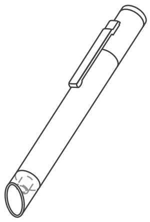

"Pen Size" powerful direct measuring pocket scope for quick close examination. Comes with a measuring metric glass reticle. Scope has an aluminum case with a satin finish and pocket clip.

Specifications:

- Magnification: 25x
- Field of View: 3.24mm
- Scale Calibration: 0.05mm
- Measurement Range: 0-3mm

243-1046-ND.. **$49.95**

NEW! Stereo Zoom Microscope with Ring Light

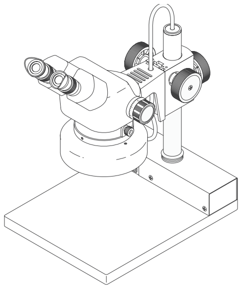

Model DSZ-44PF Series 44 Stereo Zoom Microscope mounted on a pole stand with a built in fluorescent ring light

Specifications:

- Magnification: 10x to 44x zoom-90mm working distance
- Coarse focusing knobs with tension control ring
- Incident Light: Fluorescent 9W lamp
- Field of View: 23x
- Limited Lifetime Warranty

243-1049-ND.. **$966.00**

NEW! Lighted Shop Microscope with Dual Scale Reticle

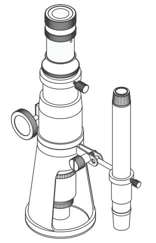

Includes a fully adjustable battery operated illuminator. (requires two AA batteries - not included).

Specifications:

- Magnification: 40x or 100x
- Objective Lenses: 4x or 10x
- Focusable Eyepiece: 10x with scale
- Working Distance: 15mm or 5.5mm

243-1048-ND 40x **$305.00**
243-1042-ND 100x.................................... **$330.00**

K

Magnifiers

Fig. 1

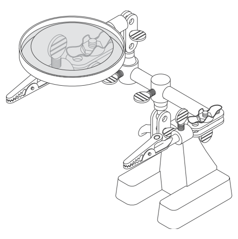

Fig. 2

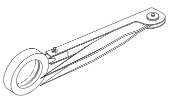

Fig. 3

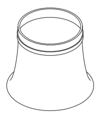

Double Clamp with Stand and Magnifier:
• Allows for close observation of work during soldering operations • Adjustable 2.5" diameter magnifying glass

Magnifier with Tweezer Tip, 3x:
• Excellent for working on small parts that require magnification • Magnifying glass mounted onto a stainless steel, anti-acid, anti-magnetic tweezers

Inspection Eye Loupe:
• Optical quality glass lens • Rests comfortably in the eye socket • Lightweight, yet sturdy • Plastic mount, 1" lens

10x Stand Magnifier:
• Clear acrylic base permits ambient light to illuminate subject for clear bright viewing • Fixed focus 10x magnifier, features a 1" diameter lens

Fig.	Description	Zoom/ Magnification	Color	Diameter Nom. (Inches)	Digi-Key Part No.	Price Each	Aven Part No.
1	Double Clamp with Stand and Magnifier	2x	—	2.5	243-1018-ND	10.50	26000
2	Magnifier with Curved Tweezer Tip	3x	Natural	1.25	243-1019-ND	9.50	26030
	Magnifier with Straight Tweezer	3x	Natural	1.25	243-1020-ND	9.50	26031
3	Inspection Eye Loupe, Working Distance: 1"	10x	Black	1	243-1021-ND	1.80	26034
	10x Stand Magnifier	10x	Clear	1	243-1024-ND	4.75	26051

AVEN Magnifying Lamps

ProVue Illuminated Magnifier

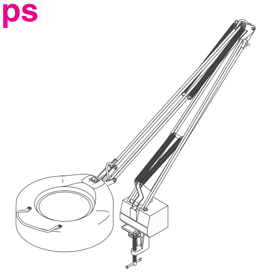

Crystal-clear lens for 360° distortion-free viewing mounted in metal housing.

A 22W fluorescent bulb provides shadow-free light around the object being magnified.

Housing is mounted on a 45” spring-balanced arm that stays set in any position and features a tension control knob at the arm.

Complete with mounting clamp and 5-foot, 2-wire cord.

One year warranty (except bulb).

Description	Color	Digi-Key Part No.	Price Each	Aven Part No.
5” Diameter, 3 Diopter	Ivory	243-1025-ND	80.50	26501-SIV
5” Diameter, 3 Diopter	Copper	243-1044-ND ***NEW!***	80.50	26501-SCP
5” Diameter, 3 Diopter	Silver	243-1045-ND ***NEW!***	80.50	26501-SSL

NEW! Provue Deluxe

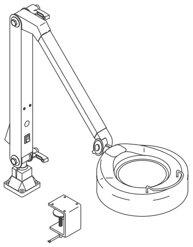

A 3 Diopter 5” diameter crystal-clear lens for 360° distortion-free viewing mounted.

Features:

- Heavy duty industrial grade arm with internal springs
- Brushed silver metal housing
- Arm Reach 35”
- C-mount clamp.
- One year warranty (except bulb).

Digi-Key Part No.	Price Each	Aven Part No.
243-1043-ND	125.00	26501-DSG

Mighty Mag Illuminated Magnifier

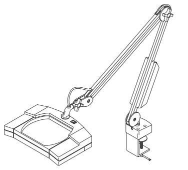

Crystal-clear lens for distortion-free viewing with both eyes to reduce fatigue and strain. Has twin side-mounted fluorescent tubes, 9 watts each that can be switched on and off independently for controlling or eliminating glare and shadows. Mar-resistant engineered plastic housing is mounted to an internal spring-balanced maintenance-free arm with a 35” reach that will set in any position. Comes complete with mounting clamp and 5-foot, 2-wire cord. Color: Ivory. Five year warranty (except bulbs).

Description	Digi-Key Part No.	Price Each	Aven Part No.
Extra Large 6”x 7” Rectangular, 3 Diopter	243-1027-ND	120.00	26505-SIV

Maxi Mag Illuminated Magnifier

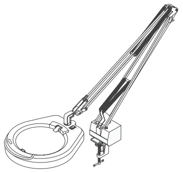

Crystal-clear lens is mounted in mar-resistant engineered plastic housing. A 32W fluorescent bulb provides shadow-free light around the object being magnified.

Housing is mounted on a 45” spring-balanced arm that stays set in any position and features a tension control knob at the arm. Complete with mounting clamp and 5-foot, 2-wire cord.

Color: Ivory.

One year warranty (except bulb).

Description	Digi-Key Part No.	Price Each	Aven Part No.
Large 7” Diameter, 3 Diopter	243-1026-ND	98.75	26503-SIV

Replacement Bulbs

Description	Digi-Key Part No.	Price Each	Aven Part No.
22 Watt Replacement Bulb	243-1039-ND	9.00	26501B
32 Watt Replacement Bulb	243-1040-ND	14.00	26503B
9 Watt Replacement Bulb	243-1041-ND	9.00	26505B

LUXO Lamps and Accessories

Wave + Plus Series Magnifiers

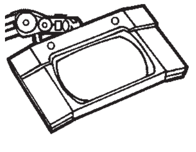

3.5-DIOPTER LENS

Independently switched improved light output uses two 13W compact fluorescent lamps. Magnification 3/4x: Focal length: 13” (33.02cm); Viewing area: 6¾” (17.15cm).
ABS molded housing.
UL listed (13W PL Compact Bulb)

Arm Inch (cm)	Mount	Digi-Key Part No.	Price Each	Luxo Part No.
45 (114.30)	Clamp Bracket	L845LG-ND	429.18	17845LG
30 (76.20)	Weighted Base	L847LG-ND	504.25	17847LG
45 (114.30)	Clamp Bracket	L841LG-ND	619.37	17841LG
30 (76.20)	Clamp Bracket	L842LG-ND	619.37	17842LG
45 (114.30)	Clamp Bracket	L900BK-ND	654.40	17900BK
30 (76.20)	Clamp Bracket	L902BK-ND	654.40	17902BK
30 (76.20)	Weighted Base	L904BK-ND	729.48	17904BK

Replacement Bulbs

Description	Digi-Key Part No.	Price Each	Luxo Part No.
22 Watt T-9 Bulb for KFM/LC/FM Series	L540-ND	16.90	31640
15 Watt T-8 Bulb for FL Series	L541-ND	13.76	31641
13 Watt Fluorescent Bulb	L5205-ND	16.90	36205
1.5" 10 Diopter Lens	L50206-ND	116.37	50206

60 Watt Incandescent Lamp - Less Bulb

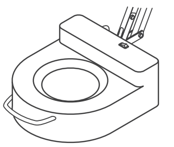

33” reach clamp-on magnifier light, 3 Diopter lens.
Mounts with a black clamp bracket.

Digi-Key Part No.	Price Each	Aven Part No.
L296BK-ND	93.84	L296

Hand Held UV Magnifier

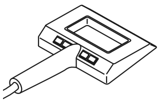

Provides both ultra-violet and standard white fluorescent lighting.

Description	Digi-Key Part No.	Price Each	Aven Part No.
4" x 2" Viewing Area, 5D (2.25x lens)	L16401-ND	303.19	16401

KFM Series Magnifiers

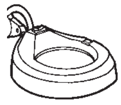

The 5” (12.7cm) diameter lenses are mounted in a die-cast aluminum housing. An internal spring arm offers perfect balance and full adjustability. Comes with a 22W T-9 energy-efficient fluorescent bulb.

Lens Type	“K” Arm Inch (cm)	Color	Mount	Digi-Key Part No.	Price Each	Luxo Part No.
5D	45 (114.30)	Black	Clamp	L230B-ND	294.04	17115BK
		Light Gray	Clamp	L230LG-ND	294.04	17115LG
3D	30 (76.20)	Black	Weighted	L235B-ND	356.61	17253BK
		Light Gray	Weighted	L235LG-ND	356.61	17253LG

Additional Lenses

Diameter Inches	Description	Digi-Key Part No.	Price Each	Luxo Part No.
4"	4 Diopter	L50201-ND	53.80	50201
3 1/8"	8 Diopter	L50202-ND	58.81	50202

Ledu Task Master Series

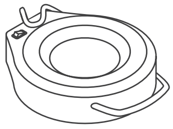

IM12D Series

Clamp-on 22W fluorescent lamp, 3-conductor cord set.
Arm length Inch (mm): 42 (106.68)

Color: White

Lens Type	Mount	Luxo Series	Digi-Key Part No.	Price Each	Luxo Part No.
3D	Clamp	IM12D	L712WT-ND	171.42	L712WT
5D			L7125WT-ND	183.93	L7125WT

Clamp Bracket

For edge mounting on horizontal surfaces.

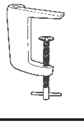

L501BK-ND Black
L501LG-ND Light Gray
$13.76

Wall Bracket

For permanent mounting on vertical surface.

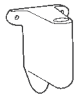

L503BK-ND Black
L503LG-ND Light Gray
$13.76

TRIPP·LITE
POWER PROTECTION

Internet Office® Ultra-Compact Standby UPS Systems

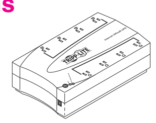

Internet Office Ultra-Compact UPS Systems provide complete power protection for your entire computer set-up, even power hungry peripherals. Built-in tel/DSL jacks prevent surges from damaging your modem/fax equipment. USB communication port works with FREE PowerAlert Software (web download) for unattended system shutdown. $100,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 350VA, 180W	TL302-ND	42.00	INTERNET350SER
8 Outlets, 350VA, 180W	TL303-ND	45.00	INTERNET350U
8 Outlets, 550VA, 300W	TL352-ND	56.29	INTERNET550U
8 Outlets, 750VA, 450W	TL305-ND	99.95	INTERNET750U

UPS Systems

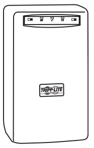

BC Standby Series — BC Personal® UPS Systems provide excellent basic battery backup for home and small office personal computers. **BC Pro®** units are ideal for network workstations and hubs and feature a communication port and PowerAlert Software for unattended system shutdown. BCPRO600 features built-in RJ11 jacks for modem/fax surge protection. Diagnostic LEDs alert you to potential power problems before damaging connected equipment. $25,000 Ultimate Lifetime Insurance protects both backup and equipment plugged into it. No warranty cards required for coverage! • UL/cUL approved • 2-year warranty

Internet Office™ Standby provides complete power protection for your entire computer set-up, even power hungry peripherals. Built-in RJ11 jacks prevent surges from damaging your modem/fax equipment on up to 2 lines simultaneously. Communication port that works with PowerAlert Software for unattended system shutdown is available on most models. $25,000 Ultimate Lifetime Insurance protects both backup and equipment plugged into it. No warranty cards required for coverage! • UL/cUL Approved • 2-year warranty

OmniSmart™ Line-Interactive features automatic voltage regulation that automatically “boosts” or “cuts” incoming voltage to keep computers working through low voltage (brownouts) and high voltage conditions without draining battery power. Communication port and PowerAlert Software provide unattended system shutdown and network power management. Select models feature built-in RJ11 jacks for modem/fax surge protection. $50,000 Ultimate Lifetime Insurance covers connected equipment. • UL/cUL Approved • 2-year warranty

VS Series Line-Interactive UPS Systems provide basic line-interactive operation at cost effective pricing. • Use the VS series to protect and support PCs, workstations and servers. • All VS UPS Systems feature automatic voltage regulation (AVR), which correct brownouts without draining battery power. • During blackouts, VS models provide reliable battery backup support. • All VS models include built-in surge suppression and line noise filtering as well as Ultimate Lifetime Insurance (which covers connected equipment against surge damage for life). • A USB port and FREE PowerAlert Software (web download) provide automatic unattended system shutdown. • UL/cUL approved • 2 year warranty

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
BC Personal Standby			
3 Outlets, 300VA, 175W	TL196-ND	67.00	BCPERS300
3 Outlets, 450VA, 280W	TL197-ND	99.00	BCPERS450
BC PRO Standby			
6 Outlets, 600VA, 345W	TL198-ND	136.00	BCPRO600
6 Outlets, 1050VA, 705W	TL128-ND	372.00	BCPRO1050
6 Outlets, 1400VA, 940W	TL129-ND	537.00	BCPRO1400
Internet Office Standby			
6 Outlets, 700VA, 425W	TL202-ND	139.00	INTERNETOFFICE700
Omnismart Line-Interactive			
3 Outlets, 300VA, 180W	TL204-ND	135.00	OMNISMART300
6 Outlets, 500VA, 300W	TL175-ND	179.00	OMNISMART500
6 Outlets, 700VA, 425W	TL174-ND	257.00	OMNISMART700
VS Series Line-Interactive			
7 Outlets, 800VA, 475W, RJ-11	TL353-ND ***NEW!***	133.89	OMNIVS800
8 Outlets, 1000VA, 500W, RJ-11	TL306-ND	140.84	OMNIVS1000
8 Outlets, 1500VA, 940W, RJ-45	TL307-ND	231.56	OMNIVS1500XL
9 Outlets, 2200VA 1600W	TL357-ND ***NEW!***	779.00	SMART2200VS

KVM Switches

KVM Switches control multiple computers with 1 keyboard, monitor and mouse console. Simple plug-and-play setup. Offers full compatibility with all major operating systems and support for most keyboards and mice.
Features: • Adapters allow you to control Mac or SUN computers through any Tripp Lite PS/2 KVM Switch • Simple to use switches and adapters require no software or system configurations

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
2 Port Desktop PS/2 with Two TL346-ND Cables	TL343-ND	79.99	B022-002-KT-R
4 Port Desktop PS/2 with Cable	TL345-ND	99.99	B022-004-R
Cable for PS/2 KVM Switch, 6’	TL346-ND	29.99	P774-006
2 Port Desktop USB with Built-in Cables	TL349-ND	74.99	B034-002-R
4 Port Desktop USB without Cables	TL350-ND	219.99	B006-004-R
Cable for USB KVM Switch, 6’	TL351-ND	13.99	P758-006

Line Conditioners

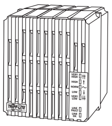

Line conditioners let you work through brownouts for unlimited time periods without using emergency power such as UPS systems. Line conditioners automatically adjust under- and over-voltages to provide safe computer-grade AC power meeting ANSI C84.1 specifications. Full surge protection and noise filtering to eliminate erratic voltages coming into your equipment. Lifetime surge protection warranty (lightning strikes) and a full 2-year product warranty on all line conditioners.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
4 Outlets, 1200W	TL013-ND	172.00	LC1200
6 Outlets, 600W	TL283-ND	135.00	LS606M
6 Outlets, 1800W	TL014-ND	255.00	LC1800
6 Outlets, 2400W	TL044-ND	385.00	LC2400
14 Outlets, 2400W, Rackmount	TL028-ND	499.00	LCR2400

SmartPro® Intelligent UPS Systems

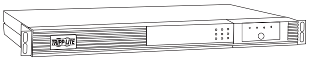

Tripp Lite’s SmartPro UPS Systems provide intelligent, line-interactive battery backup for networks and servers. SmartPro systems allow you to work through short blackouts or safely shut down during longer ones. Communication port(s) work with PowerAlert Software to provide automatic unattended shutdown. Tripp Lite’s PowerAlert Software is the only UPS software capable of managing every type and brand of UPS on your network, from every manufacturer. Up to $250,000 Ultimate Lifetime Insurance (US and Canada only). No warranty cards required for coverage!

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Smart Pro Rackmount UPS Systems			
6 Outlets, 500VA, 300W	TL309-ND	189.00	SMART500RT1U
6 Outlets, 750VA, 450W	TL289-ND	405.00	SMART750RM1U
6 Outlets, 1000VA, 640W	TL243-ND	532.00	SMART1000RM1U
8 Outlets, 1500VA, 1000W	TL308-ND	792.00	SMART1500RMXL2UA
8 Outlets, 2200VA, 1600W	TL288-ND	1079.00	SMART2200RMXL2U
9 Outlets, 3000VA, 2250W	TL239-ND	1219.00	SMART3000RM2U
14 Outlets, 5000VA, 4000W	TL317-ND	3509.00	SMART5000RT3U
Smart Pro Net UPS Systems			
6 Outlets, 700VA, 450W	TL158-ND	269.00	SMART700
6 Outlets, 1050VA, 680W	TL159-ND	454.35	SMART1050
6 Outlets, 1500VA, 980W	TL290-ND	371.97	SMART1500
6 Outlets, 2200VA, 1700W	TL279-ND	879.00	SMART2200NET
8 Outlets, 3000VA, 2400W	TL280-ND	1199.00	SMART3000NET

True On-Line UPS Systems with Zero Transfer Time

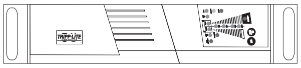

Tripp Lite gives you the benefits of zero transfer time rackmount UPS protection at an affordable price. These units provide full brownout and blackout protection and a fully regulated output, as each unit continuously conditions all power to your equipment. Full spike and surge protection as well as noise filtering provided by Tripp Lite’s double conversion on-line power. $250,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 1000VA, 800W	TL216-ND	659.00	SU1000RTXL2U
6 Outlets, 1000VA, 800W	TL342-ND	549.00	SU1000XL
6 Outlets, 1000VA, 800W	TL354-ND ***NEW!***	716.31	SU1000RTXL2UA
7 Outlets, 1500VA, 1200W	TL291-ND	863.00	SU1500RTXL2U
6 Outlets, 1500VA, 1200W	TL355-ND ***NEW!***	938.04	SU1500RTXL2UA
7 Outlets, 2200VA, 1600W	TL356-ND ***NEW!***	1375.00	SU2200RTXL2UA
9 Outlets, 3000VA, 2400W	TL316-ND	1853.00	SU3000RTXL3U
Tower Kit with 2 Base Stands, Expandable from 2U to 9U	TL344-ND	77.00	2-9USTAND

Medical-Grade UPS Systems and Isolation Transformers

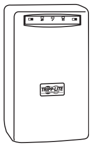

Protect healthcare equipment and computers. Models include built-in isolation transformers to reduce cumulative leakage of all connected equipment to less than 300µA. UL2601-1 listed for use in patient care areas. UPS systems offer automatic voltage regulation and up to 2 communication ports. Isolation transformers reduce line and common mode noise. All models include hospital-grade plug and receptacles.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
UPS Systems			
4 Outlets, 700VA, 450W	TL310-ND	661.00	SMART700HG
4 Outlets, 1 DB9 Port and 1 USB Port, 1000VA	TL252-ND	849.00	SMART1200XLHG
4 Outlets, 1 Comm. Port, 2 Line Modem/Fax, 330VA	TL253-ND	442.00	OMNISMART350HG
Isolation Transformers			
2 Outlets, 6’ Cord, 250W	TL257-ND	163.00	IS250HG
4 Outlets, 6’ Cord, 500W	TL256-ND	238.00	IS500HG
4 Outlets, 6’ Cord, 1000W	TL255-ND	343.00	IS1000HG

Power Strips and Surge Suppressors with Hospital-Grade Receptacles and Plug

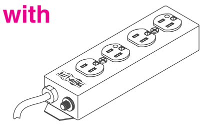

Features:
- Ideal choice where durability and reliability are required • Rugged all-metal housing • Mounting keyhole slots/flanges

Note: Not for use where NEC requires hospital-grade receptacles.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Surge Suppressors			
6 Outlets, 790 Joules, 15' Cord, 15A, Metal Housing	TL258-ND	70.00	SPS-615-HG
6 Outlets, 940 Joules, 15' Cord, 12A, Metal Housing	TL281-ND	117.00	ISOBAR6ULTRAHG
Power Strips			
4 Outlets, 15' Cord, 9" Power Strip, 15A	TL311-ND	49.00	PS-415-HG
6 Outlets, 6' Cord, 14" Power Strip, 15A	TL312-ND	52.50	PS-606-HG
6 Outlets, 15' Cord, 12" Power Strip, 15A, Plastic	TL260-ND	57.00	PS-615-HG

TRIPP·LITE
POWER PROTECTION

120V Power Strips

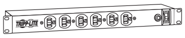

Tripp Lite power strips are a convenient solution for applications in which multiple AC outlets are needed without surge or line noise protection. Power strips are ideal for mounting inside rack enclosures or on walls, workbenches and more. Sturdy metal housing stands up to demanding network, lab or factory environments.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Horizontal / Vertical Power Strips			
8 Outlets, 24” Power Outlet Strip, 120V	TL206-ND	64.99	PS2408
12 Outlets, 36” Power Outlet Strip, 120V	TL207-ND	74.99	PS3612
16 Outlets, 48” Power Outlet Strip, 120V	TL208-ND	75.99	PS4816
20 Outlets, 60” Power Outlet Strip, 120V	TL318-ND	93.99	PS6020
24 Outlets, 72” Power Outlet Strip, Surge, Metal Case, On/Off Light, Gray	TL319-ND	58.09	SS7619-15
Rackmount Power Strips			
12 Outlets, 19” Rackmount Outlet Strip, 120V	TL213-ND	57.50	RS-1215
12 Outlets, 19” Rackmount Surge Strip, 450 Joules, 120V	TL262-ND	79.00	DRS-1215
12 Outlets, 19” Rackmount Outlet Strip, 20A, 120V	TL265-ND	59.99	RS-1215-20
12 Outlets, 19” Rackmount Outlet Strip, 15A, 120V, R/A Receptacles	TL266-ND	45.43	RS-1215-RA
16 Outlets, 48” Surge Power Strip, 450 Joules, 120V	TL274-ND	58.18	SS7415-15
PDU Series Rackmount — Power Distribution Strips			
13 Outlets, 19” Rack Strip, No Power Switch, 20A, 120V, Locking Plug	TL297-ND	225.00	PDU1220T
14 IEC-320 Outlets, 19” Rack Strip, No Power Switch, 16A, 100-240V	TL270-ND	245.00	PDU12IEC

ISOBAR® Premium Surge Suppressors

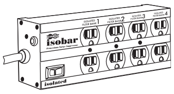

ISOBAR is the most electronically advanced surge suppressor available today. Exclusive isolated filter banks eliminate interference between connected equipment. **Only ISOBAR provides:** • Superior RFI/EMI noise suppression • “Cascade Circuitry” to increase protection for more sensitive devices • Surge Suppression up to 13,000 amp spikes • Rackmount model (ISOBAR8RM) for industrial and sound applications • Up to 24 active filtering components • Meets IEEE 587 A and B Specifications • Less than 5 nanosecond transient response time. Up to $250,000 Ultimate Lifetime Insurance covers connected equipment against surge damage, including direct lightning strikes...for life.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
2 Outlets, 6’ (1.83m) Cord	TL003-ND	59.95	IBAR2-6
6 Outlets, 6’ (1.83m) Cord, Diag. LEDs, Modem/Fax, 2 Line Coax.	TL205-ND	119.95	ISOBAR6DBS
4 Outlets, 6’ (1.83m) Cord, with Diag. LED	TL076-ND	89.95	ISOBAR4ULTRA
6 Outlets, 6’ (1.83m) Cord, with Diag. LED	TL077-ND	104.95	ISOBAR6ULTRA
8 Outlets, 12’ (3.66m) Cord, with Diag. LED	TL078-ND	116.95	ISOBAR8ULTRA
8 Outlets, 12’ (3.66m) Cord, with Remote Power Switch	TL050-ND	129.50	ISOBAR8RM
4 Outlets, 6’ (1.83m) Cord, Modem/Fax	TL009-ND	99.95	ISOTEL

ISOBAR® Rackmount Surge Suppressors

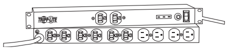

The same premium features as the Isobar line in convenient, space-saving rackmount configurations. Exclusive isolated filter banks eliminate interference between connected equipment. “Cascade Circuitry” to increase protection for more sensitive devices. Complete surge, spike and line noise protection. $25,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
12 Outlets, 15’ Cord, 750 Joules	TL027-ND	169.00	IBAR12
12 Outlets, 15’ Cord, 1200 Joules	TL227-ND	159.00	IBAR12ULTRA
12 Outlets, 15’ Cord, 1200 Joules, 20A	TL282-ND	199.00	IBAR12/20ULTRA

Economy Surge Suppressors

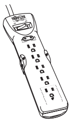

Protect all computers and home office electronics against damaging surges, spikes and line noise. Select Protect It!™ Surge Suppressors offer space saving right angle plugs, transformer friendly designs and up to 2350 joules of surge absorption. Up to $75,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Protect It!™ Surge Suppressors			
4 Outlets, 390 Joules, 4’ Cord	TL313-ND	5.99	TLP404
6 Outlets, 250 Joules, 2’ Cord	TL229-ND	7.99	TLP602
6 Outlets, 720 Joules, 4’ Cord	TL264-ND	8.99	TLP604
7 Outlets, 750 Joules, 6’ Cord	TL083-ND	11.99	STRIKER
7 Outlets, 1000 Joules, 12’ Cord	TL263-ND	16.99	TLP712
7 Outlets, 2350 Joules, 7’ Cord	TL085-ND	27.99	SUPER7
8 Outlets, 1900 Joules, 8’ Cord	TL275-ND	27.99	TLP808
Spike Stik, 6 Outlets, 360 Joules, 6’ Cord	TL026-ND	24.95	STIK
Super 8, 8 Outlets, 1200 Joules, 8’ Cord	TL011-ND	44.95	SK6-6

Direct Plug-In Surge Suppressors

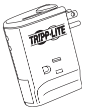

These direct plug-in models offer a compact surge protection solution for all computers and home/office electronics. Direct plug-in Isobar models offer premium surge protection. The Traveler™ model offers ideal protection for notebook computers and fits easily into any briefcase. Select models offer diagnostic LEDs, transformer friendly designs and up to 600 joules of surge absorption. Up to $100,000 Ultimate Lifetime Insurance.

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Traveler™, Direct Plug-In, 2 Outlets, RJ11, 2 LEDs	TL008-ND	25.95	TRAVELER
Isobar, Direct Plug-In, 2 Outlets, 600 Joules, 3 LEDs	TL276-ND	59.95	ULTRABLOK428
Isobar, Direct Plug-in, 2 Outlets, 600 Joules	TL002-ND	48.00	ISOBLOK2-0
Isobar, 20A Direct Plug-In, 2 Outlets, 600 Joules, 3 LEDs	TL277-ND	79.95	ULTRACOPY
Isobar, Direct Plug-in, 2 Outlets, 600 Joules, with 1 RJ11 Jack	TL080-ND	69.95	ULTRAFAX
Direct Plug-In, 3 Stage Modem/Fax Protection	TL015-ND	59.95	TSB

Data Line Surge Suppressors

Data networks are increasingly susceptible to problems from dataline transients as transmission rates continue to rise. Tripp Lite’s dataline surge suppressors safely divert damaging surges before they reach your critical network equipment. Protects I/O and Serial ports, modem fax cards, network interface cards and motherboards.

Lines Protected	Interface Type	Digi-Key Part No.	Price Each	Tripp Lite Part No.
1-8	RJ45	TL320-ND	29.95	DNET1
4, 5 and 3, 6	RJ11/RJ45	TL154-ND	32.50	DTEL2

Modem/Fax and Multimedia Surge Suppressors

Protect all computers and home/office electronics, including modem/fax and multimedia equipment against damaging surges, spikes and line noise. Select models offer space saving right angle plugs, transformer friendly designs up to 3690 joules of surge absorption. Modem/fax, coaxial and or Ethernet surge protection. Up to $250,000 Ultimate Lifetime Insurance.

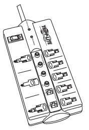

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 870 Joules, 4’ Cord, 1 In/1 Out RJ11	TL230-ND	11.99	TLP604TEL
7 Outlets, 1680 Joules, 6’ Cord, 2 In/2 Out Coax, 1 In/1 Out RJ11	TL348-ND	37.51	HT706TSAT
7 Outlets, 1080 Joules, 6’ Cord, 1 In/1Out Coax.	TL347-ND	35.99	HT706TV
7 Outlets, 2470 Joules, 7’ Cord, 1 In/1 Out RJ11	TL105-ND	35.99	SUPER7TEL
7 Outlets, 1270 Joules, 7’ Cord, 1 In/1 Out RJ11	TL299-ND	21.99	TLP707TEL
8 Outlets, 2820 Joules, 8’ Cord, 1 In/2 Out RJ11	TL232-ND	39.99	TLP808TEL
8 Outlets, 3690 Joules, 10’ Cord, 2 RJ11/Coax./Ethernet	TL234-ND	63.50	TLP810NET
10 Outlets, 2395 Joules, 8’ Cord, 1 In/2 Out RJ11	TL300-ND	44.99	TLP1008TEL

PowerVerter® DC-to-AC Inverters

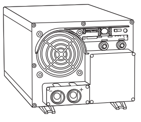

Ultra-Compact Inverters are housed in a sturdy portable metal case with 12V cigarette lighter plug built-in. Ideal for laptops, test equipment and TV-VCR units. **Peak Power** models are able to handle up to twice their normal wattage for short periods of time delivering high start-up current, frequency controlled AC, making them ideal for motors, refrigerators, power tools and microwaves. **APS Inverters** feature modified sine wave, frequency controlled, fully regulated output. These units automatically sense and switch AC between line power and battery power. A built-in recharge circuit will recharge the battery when line voltage becomes available. Perfect for sump pumps, emergency lighting, and more.

Description (H x W x D)	Digi-Key Part No.	Price Each	Tripp Lite Part No.
Ultra-Compact Inverters			
150W, 1 Outlet with Cigarette Plug, 1.65” x 3.6” x 5.6”	TL295-ND	42.00	PV150
375W, 2 Outlets with Cigarette Plug, 1.75” x 4.5” x 6”	TL296-ND	65.00	PV375
1000W, 3 Outlets, Permanent-Mount, 4” x 6” x 12.5”	TL225-ND	285.00	PV1000HF
1800W, 3 Outlets, Permanent-Mount, 4” x 10” x 10.5”	TL226-ND	395.00	PV1800HF
Peak Power Inverters (Frequency Controlled)			
500W, 2 Outlets, 7” x 7” x 10”	TL146-ND	255.00	PV500FC
2000W, 2 Outlets, 6.5” x 8.5” x 12”	TL148-ND	529.00	PV2000FC
APS Premium Inverters with Charger			
1500W, Hardwire Output, 24VDC, w/Charger, 7.2” x 8.5” x 16.5”	TL251-ND	760.00	APS1524
750W, 2 Outlet, 7” x 7” x 10”	TL103-ND	439.00	APS750
1250W, 2 Outlets, with Charger, 7” x 8.75” x 9”	TL104-ND	475.00	APS1250

Precision — Regulated DC Power Supplies

Features: • Current limiting electronic foldback for automatic overcurrent protection in case of overload; time controlled on 7 amp and larger models • Regulated output voltage maintains up to 95% of no load value • High quality filtering provides for very low ripple/low noise operation • Large heat sinks and vented cabinet provide cool operation for continuous use and long life of the unit.

Description	Application	Digi-Key Part No.	Price Each	Tripp Lite Part No.
13.8VDC, 3A	CBs, Car Tape Players	TL185-ND	33.50	PR3
13.8VDC, 4.5A	CBs, Car Tape Players	TL195-ND	39.00	PR4.5
13.8VDC, 7A	Single Side-Band CBs, Car Stereos	TL186-ND	55.00	PR7
13.8VDC, 10A	30W Transmitters, 2-Way Radios	TL187-ND	79.00	PR10
13.8VDC, 12A	40W Transmitters, 2-Way Radios	TL188-ND	85.00	PR12
13.8VDC, 20A	60W Transmitters, Commercial Radios	TL272-ND	125.00	PR20
13.8VDC, 25A	75-100W Ham, Commercial Radios	TL190-ND	165.00	PR25
13.8VDC, 30A	125W Ham, Commercial Radios	TL273-ND	172.00	PR30
13.8VDC, 40A	150-200W Ham, Commercial Radios	TL191-ND	211.00	PR40
13.8VDC, 50A	225W Ham, Commercial Radios	TL192-ND	262.00	PR50
13.8VDC, 60A	250-300W Ham, Commercial Radios	TL241-ND	309.00	PR60

WABER® - TRIPP·LITE

Power Strips

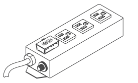

Features: • Economical outlet strips wherever you need them • Variety of models for home office/small office computers and other electronic equipment • Seamless steel case with baked-on finish on select models

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
3 Outlets, 6’ Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL322-ND	19.05	3SP
4 Outlets, 6’ Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL337-ND	20.86	UL603CB-6
4 Outlets, 6’ Cord, Metal Case, On/Off Light, Beige with Tabs	TL323-ND	13.59	4SPDX
5 Outlets, 6’ Cord, Metal Case, No Switch, Blue/Gray with Tabs	TL321-ND	14.49	602
5 Outlets, 15’ Cord, Metal Case, No Switch, Blue/Gray with Tabs	TL324-ND	19.04	602-15
6 Outlets, 4’ Cord, Plastic Case, On/Off Switch, Gray with Tabs	TL333-ND	8.13	PS6
6 Outlets, 6’ Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL326-ND	19.95	6SP
6 Outlets, 6’ Cord, Metal Case, On/Off Switch, Beige with Tabs	TL325-ND	8.64	6NX6
6 Outlets, 6’ Cord, Metal Case, On/Off Light, Beige with Tabs	TL327-ND	14.10	6SPDX
6 Outlets, 15’ Cord, Metal Case, On/Off Light, Beige with Tabs	TL328-ND	18.13	6SPDX-15
6 Outlets, 15’ Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL335-ND	30.86	UL24CB-15
6 Outlets, 15’ Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL336-ND	32.68	UL24RA-15
6 (20A) Outlets, 15’ Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL338-ND	75.40	UL620-15
9 Outlets, 15’ Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL334-ND	34.50	UL17CB-15
10 Outlets, 15’ Cord, Metal Case, On/Off Light, Blue/Gray with Tabs	TL339-ND	49.09	UL800CB-15

Surge Suppressors

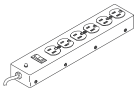

Features: • Economical surge suppressors protect against damaging surges, spikes and line noise • Variety of models for home office/small office computers and other electronic equipment • Seamless steel case with baked-on finish

Description	Digi-Key Part No.	Price Each	Tripp Lite Part No.
6 Outlets, 450 Joules, 6’ Cord, Metal Case, 3 Line Protection, with Tabs	TL331-ND	21.36	PM6NS
6 Outlets, 450 Joules, 6’ Cord, Metal Case, 3 Line Protection, with Tabs	TL332-ND	14.10	PM6SN1
6 Outlets, 600 Joules, 6’ Cord, Metal Case, 3 Line Protection, with Tabs	TL329-ND	40.86	DG115-SI

Digi-Key® Capacitor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Panasonic Miniature Aluminum Electrolytic		
KG Series - 10 each of 18 popular values (180 total pieces)	P900-KIT-ND	34.95
Panasonic Miniature Radial Lead Electrolytic		
M-Series - 10 each of 17 popular values (170 total pieces)	M-KIT-ND	69.95
NHG-Series - 10 each of 18 popular values (180 total pieces)	NHG-KIT-ND	69.95
Panasonic Miniature Radial Lead Electrolytic		
KA-Series - 10 each of 16 popular values (160 total pieces)	P835-KIT-ND	29.95
Panasonic Stacked Metal Film		
V-Series, 50 Volt - 10 each of 18 popular values (180 total pieces)	P4542-KIT-ND	49.95
V-Series, 100 Volt - 10 each of 18 popular values (180 total pieces)	P4700-KIT-ND	49.95
Panasonic Metal Film (Interference Suppressors)		
X-Y Series - 10 each of 10 popular values (100 total pieces)	P4650-KIT-ND	59.95
Panasonic Metallized Polyester		
E-Series - 10 each of 14 popular values and 30 pieces of #E2104 (170 total pieces)	E-KIT-ND	59.95
Panasonic Polyester		
B-Series - Various quantities of 12 popular values (300 total pieces)	P4550-KIT-ND	29.95
Panasonic Polyester Foil		
M-Series, 200 Volt - 10 each of 15 popular values (150 total pieces)	M200-KIT-ND	29.95
M-Series, 400 Volt - 10 each of 15 popular values (150 total pieces)	M400-KIT-ND	29.95
Panasonic Polypropylene		
P-Series - 10 each of 15 popular values (150 total pieces)	P3100-KIT-ND	69.95
Panasonic SMT Specialty Polymer Aluminum Electrolytic Chip		
CD/UD/UE/S Series - 15 each of 12 popular values (180 total pieces)	SP2-KIT-ND	34.99
Panasonic 0402 Chip Ceramic		
NPO Series - 10 each of 28 popular values (280 total pieces)	PCC13-KIT-ND	49.95
X7R Series - 10 each of 30 popular values (300 total pieces)	PCC14-KIT-ND	45.95
Panasonic 0603 Chip Ceramic		
NPO Series -10 each of 30 popular values (300 total pieces)	PCC9-KIT-ND	29.95
X7R and X5R Series - 10 each of 30 popular values (300 total pieces)	PCC15-KIT-ND	29.95
Panasonic 0805 Chip Ceramic		
NPO Series - 10 each of 30 popular values (300 total pieces)	PCC7-KIT-ND	29.95
X7R Series - 10 each of 30 popular values (300 total pieces)	PCC16-KIT-ND	29.95
Panasonic 1206 Chip Ceramic		
NPO Series - 10 each of 14 popular values (140 total pieces)	PCC17-KIT-ND	89.95
NEW! **Panasonic Multilayer Ceramic Chip (MLCC) Capacitor**		
X5R Series - 20 each of 20 popular values (400 total pieces) ***RoHS Compliant***	PCC18B-KIT-ND	49.95
Panasonic 0201/0402 High-Q (MLCC) Chip Ceramic		
0201/High-Q Series - 20 each of 21 popular values (420 total pieces)	PCC19-KIT-ND	59.00
0402/High-Q Series - 20 each of 30 popular values (600 total pieces)	PCC20-KIT-ND	59.00

Digi-Key® Serial EEPROM Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Microchip Serial EEPROM Kits		
Low-Density — 3 pieces each of parts 24AA01-I/PDK, 25AA040-I/P and 93AA46B-I/P (9 total pieces)	SEEPROM1-KIT-ND	17.95
Mid-Density — 3 pieces each of parts 24AA16-I/P, 25AA080B-I/P and 93AA66C-I/P (9 total pieces)	SEEPROM2-KIT-ND	17.95
High-Density — 3 pieces each of parts 24AA512-I/P, 25AA640-I/P and 93AA86C-I/P (9 total pieces)	SEEPROM3-KIT-ND	19.95
Combo Kit — Contains everything in the Low-Density, Mid-Density and High-Density Kits (27 total pieces)	SEEPROM4-KIT-ND	29.95

Digi-Key® Fuse Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Littelfuse 467 Series 0603 Lead Free Fast Acting Fuses		
10 each of 14 fuses (140 total pieces)	467-KIT-ND	99.95
Littelfuse 466 Series 1206 Lead Free Fast Acting Fuses		
10 each 15 fuses (150 total pieces)	466-KIT-ND	89.95
Littelfuse 154 Series Nano2 SMT Fast/Slo-Blo® Fuses		
5 each 18 fuses (90 total pieces)	154-KIT-ND	149.95
NEW! **Littelfuse 251L/473L Series PICO II Fast/Slo-Blo® Axial Fuses**		
5 each 18 fuses (90 total pieces) ***RoHS Compliant***	251L-473L-KIT-ND	99.96
NEW! **Littelfuse 216P Series Fast Acting Hi-Breaking 5x20mm Fuses**		
5 each 18 fuses (90 total pieces) ***RoHS Compliant***	216P-KIT-ND	159.97
NEW! **Littelfuse 217P Series Fuse Fast Acting**		
5 each of 18 fuses (90 total pieces) ***RoHS Compliant***	217P-KIT-ND	39.95
NEW! **Littelfuse 218P Series Fuse Slo-Blo®**		
5 each of 18 fuses (90 total pieces) ***RoHS Compliant***	218P-KIT-ND	89.95
Littelfuse 257/297 Series Mini and ATO Blade Fuses		
5 each 18 fuses (90 total pieces)	257-297-KIT-ND	33.95
NEW! **Littelfuse 312P Series Fast Acting 3AG Fuses**		
5 each 28 fuses and 10 each 2 fuse clips (160 total pieces) ***RoHS Compliant***	312P-KIT-ND	109.96
NEW! **Littelfuse 313P Series Slo-Blo® 3AG Cartridge**		
5 each 34 fuses and 10 each 2 fuse clips (190 total pieces) ***RoHS Compliant***	313P-KIT-ND	89.95
NEW! **Littelfuse 225P Fast-Acting Fuses and Littelfuse 229P Slo-Blo®**		
5 each 18 fuses (90 total pieces) ***RoHS Compliant***	225P-229P-KIT-ND	39.96
Wickman Fuses		
10 each of 17 popular fuses and 15 of TR5 Fuseholder (185 total pieces)	WK0113-KIT-ND	74.95
10 each of 17 popular fuses and 15 of TR5 Fuseholder (185 total pieces)	WK0116-KIT-ND	79.95
10 each of 17 popular fuses and 20 of TE5 Fuseholder (190 total pieces)	WK0117-KIT-ND	79.95

Digi-Key® Inductor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Panasonic SMT Inductors		
RE Type (2% Tolerance) - 10 each of 23 inductors (230 total pieces)	PCD4-KIT-ND	79.95
RE Type (5% Tolerance) - 10 each of 23 inductors (230 total pieces)	PCD1-KIT-ND	69.95
ND Type - 10 each of 25 inductors (***PCD1185CT-ND not included***) (250 total pcs.)	PCD2-KIT-ND	99.95
RF Type - 10 each of 20 inductors (200 total pieces)	PCD3-KIT-ND	69.95
AVX Thin Film Inductors		
20 each of 12 inductors (240 total pieces)	478-2948-ND	166.25

Digi-Key® Potentiometer Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Bourns 3/4" (19.05mm) Rectangular 15-Turn		
10 each of 15 popular values (150 total pieces)	3006P-KIT-ND	159.00
Bourns 3/8" (9.52mm) Square 25-Turn		
3296P Series - 5 each of 15 values (75 total pieces)	3296P-KIT-ND	139.00
3296W Series - 5 each of 15 values (75 total pieces)	3296W-KIT-ND	139.00
3296X Series - 5 each of 15 values (75 total pieces)	3296X-KIT-ND	139.00
3296Y Series - 5 each of 15values (75 total pieces)	3296Y-KIT-ND	139.00
3296Z Series - 5 each of 15 values (75 total pieces)	3296Z-KIT-ND	139.00
Bourns 3/8" (9.52mm) Square Single-Turn		
3386C Series - 5 each of 15 values (75 total pieces)	3386C-KIT-ND	65.95
3386F Series - 5 each of 15 values (75 total pieces)	3386F-KIT-ND	65.95
3386P Series - 5 each of 15 values (75 total pieces)	3386P-KIT-ND	65.95
3386R Series - 5 each of 15 values (75 total pieces)	3386R-KIT-ND	65.95
3386X Series - 5 each of 15 values (75 total pieces)	3386X-KIT-ND	65.95
Bourns 1/2" (12.70mm) Square 25-Turn		
5 each of 18 popular values (90 total pieces)	3252-KIT-ND	599.00
Bourns 1/4" (6.35mm) Square Cermet 12-Turn		
3266W Series - 5 each of 17 values (85 total pieces)	3266W-KIT-ND	199.00
3266X Series - 5 each of 17 values (85 total pieces)	3266X-KIT-ND	199.00
Bourns 1/4" (6.35mm) Square Cermet Single-Turn		
3362H Series - 10 each of 14 popular values (140 total pieces)	3362H-KIT-ND	89.95
3362M Series - 10 each of 14 popular values (140 total pieces)	3362M-KIT-ND	89.95
3362R Series - 10 each of 14 popular values (140 total pieces)	3362R-KIT-ND	89.95
3362U Series - 10 each of 14 popular values (140 total pieces)	3362U-KIT-ND	89.95
3362X Series - 10 each of 14 popular values (140 total pieces)	3362X-KIT-ND	89.95
Bourns 9mm Round Cermet Single-Turn		
10 each of values (180 total pieces)	3309-KIT-ND	69.95
Bourns 1/4" (6.35mm) Round Cermet Single-Turn		
3329H Series - 5 each of 14 popular values (70 total pieces)	3329H-KIT-ND	129.95
3329P Series - 5 each of 14 popular values (70 total pieces)	3329P-KIT-ND	129.95
3329S Series - 5 each of 14 popular values (70 total pieces)	3329S-KIT-ND	129.95
3329W Series - 5 each of 14 popular values (70 total pieces)	3329W-KIT-ND	129.95
3329X Series - 5 each of 14 popular values (70 total pieces)	3329X-KIT-ND	129.95
Bourns 5/16" (7.95mm) Round Cermet 4-Turn		
3339P Series - 5 each of 14 popular values (70 total pieces)	3339P-KIT-ND	269.00
3339W Series - 5 each of 14 popular values (70 total pieces)	3339W-KIT-ND	269.00

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Digi-Key® Potentiometer Kits *(Cont.)*

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Bourns 3/8" (9.52mm) Round Cermet Single-Turn		
3352E Series - 5 each of 15 popular values (75 total pieces)	3352E-KIT-ND	49.95
3352H Series - 5 each of 15 popular values (75 total pieces)	3352H-KIT-ND	49.95
3352P Series - 5 each of 15 popular values (75 total pieces)	3352P-KIT-ND	49.95
3352T Series - 5 each of 15 popular values (75 total pieces)	3352T-KIT-ND	49.95
3352W Series - 5 each of 15 popular values (75 total pieces)	3352W-KIT-ND	49.95
Bourns 1/2" (12.70mm) Round Wirewound Single-Turn		
5 each of 9 popular values (45 total pieces)	3345P-KIT-ND	199.95
Bourns SMD 4mm Square Cermet Single-Turn Open Frame		
5 each of 11 popular values (55 total pieces)	3364W-KIT-ND	35.95
CTS 1/4 Watt Carbon Linear Taper		
270 Series, With Switch - 5 each of 8 values (40 total pieces)	270-A-KIT-ND	109.95
270 Series, Without Switch - 5 each of 8 values (40 total pieces)	270-B-KIT-ND	89.95
CTS 1/4 Watt Carbon Logarithmic Taper		
270 Series, With Switch - 5 each of 8 values (40 total pieces)	270-C-KIT-ND	109.95
270 Series, Without Switch - 5 each of 8 values (40 total pieces)	270-D-KIT-ND	89.95
CTS 1/8 Watt Carbon		
296 Series, Top Adjust - 5 each of 11 values (55 total pieces)	296U-KIT-ND	59.95
296 Series, Side Adjust - 5 each of 11 values (55 total pieces)	296X-KIT-ND	59.95
CTS 5 Watt Wirewound		
026 Series - 5 each of 7 values (35 total pieces)	26-KIT-ND	99.95
CTS 1/4 Watt Trimmer		
201 Series, Top Adjust - 5 each of 13 values (65 total pieces)	201U-KIT-ND	29.95
201 Series, Side Adjust - 5 each of 13 values (65 total pieces)	201X-KIT-ND	29.95
CTS .15 Watt Trimmer		
262 Series, Top Adjust - 5 each of 11 values (55 total pieces)	U262-KIT-ND	27.95
262 Series, Side Adjust - 5 each of 11 values (55 total pieces)	X262-KIT-ND	27.95
Panasonic 6mm Carbon Trimmer, Laydown and Standup Version		
10 each of 14 popular values (140 pieces)	DXA-KIT-ND	29.95
Panasonic SMT Trimmer		
P1D Series - 10 each of 13 values (130 total pie ces)	P1D-KIT-ND	43.95
P1E Series - 10 each of 13 values (130 total pieces)	P1E-KIT-ND	43.95

Digi-Key® Resistor Kits

Conveniently packaged
into bags per value.

Description	Digi-Key Part No.	Price Each
Panasonic 0402 1% Chip Resistor Assortments, 1/16 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1L-ND	189.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2L-ND	189.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3L-ND	189.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4L-ND	189.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5L-ND	189.00
Panasonic 0402 5% Chip Resistor Assortments, 1/16 Watt		
50 each of every other value from 10, 12, 15 etc 1.0M (3,050 pieces)	CR7A-KIT-ND	89.95
200 each of every other value from 10, 12, 15 etc 1.0M (12,200 pieces)	CR7-KIT-ND	169.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR8A-KIT-ND	89.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR8-KIT-ND	169.00
Panasonic 0603 1% Chip Resistor Assortments, 1/16 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1H-ND	129.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2H-ND	129.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3H-ND	129.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4H-ND	129.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5H-ND	129.00
Panasonic 0603 5% Chip Resistor Assortments, 1/16 Watt		
50 each of every other value from 10, 12, 15 etc 1.0M (3,050 pieces)	CR5A-KIT-ND	85.95
200 each of every other value from 10, 12, 15 etc 1.0M (12,200 pieces)	CR5-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR6A-KIT-ND	85.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR6-KIT-ND	129.00
Panasonic 0805 1% Chip Resistor Assortments, 1/10 Watt		
50 each of values 10 ohm to 97.6 ohm (4,800 pieces)	RSM1CA-ND	119.95
200 each of values 10 ohm to 97.6 ohm (19,200 pieces)	RSM1C-ND	299.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2CA-ND	119.95
200 each of values 100 ohm to 976 ohm (19,200 pieces)	RSM2C-ND	299.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3CA-ND	119.95
200 each of values 1.00K to 9.76K (19,200 pieces)	RSM3C-ND	299.00
50 each of values 10.0K to 97.6K (4,800 pieces)	RSM4CA-ND	119.95
200 each of values 10.0K to 97.6K (19,200 pieces)	RSM4C-ND	299.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5CA-ND	119.95
200 each of values 100K to 1.00M (19,400 pieces)	RSM5C-ND	299.00
Panasonic 0805 5% Chip Resistor Assortments, 1/10 Watt		
50 each of every other value from 10, 12, 15 etc. 1.0M (3,050 pieces)	CR3A-KIT-ND	79.95
200 each of every other value from 10, 12, 15 etc. 1.0M (12,200 pieces)	CR3-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR4A-KIT-ND	79.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR4-KIT-ND	129.00
Panasonic 1206 1% Chip Resistor Assortments, 1/8 Watt		
50 each of values 10.0 ohm to 97.6 ohm (4,800 pieces)	RSM1FA-ND	129.95
200 each of values 10.0 ohm to 97.6 ohm (19,200 pieces)	RSM1F-ND	299.00
50 each of values 100 ohm to 976 ohm (4,800 pieces)	RSM2FA-ND	129.95
200 each of values 100 ohm to 976 ohm (19,200 pieces)	RSM2F-ND	299.00
50 each of values 1.00K to 9.76K (4,800 pieces)	RSM3FA-ND	119.95
200 each of values 1.00K to 9.76K (19,200 pieces)	RSM3F-ND	299.00
50 each of values 10.0K to 97.6K (4,800 piece s)	RSM4FA-ND	129.95
200 each of values 10.0K to 97.6K (19,200 pieces)	RSM4F-ND	299.00
50 each of values 100K to 1.00M (4,850 pieces)	RSM5FA-ND	129.95
200 each of values 100K to 1.00M (19,400 pieces)	RSM5F-ND	299.00
Panasonic 1206 5% Chip Resistor Assortments, 1/8 Watt		
50 each of every other value from 10, 12, 15 etc. 1.0M (3,050 pieces)	CR1A-KIT-ND	79.95
200 each of every other value from 10, 12, 15 etc. 1.0M (12,200 pieces)	CR1-KIT-ND	129.00
50 each of every other value from 11, 13, 16 etc. 910K (3,000 pieces)	CR2A-KIT-ND	79.95
200 each of every other value from 11, 13, 16 etc. 910K (12,000 pieces)	CR2-KIT-ND	129.00
Susumu 0201 .5% SMD Resistor, 1/20 Watt		
10 each of values 47Ω ~ 8.2KΩ (150 pieces)	RR0306PD-1-KIT-ND	9.95
Susumu 0402 .5% SMD Resistor, 1/16 Watt		
10 each of values 10Ω ~ 82Ω (190 pieces)	RR0510RD-1-KIT-ND	4.95
10 each of values 100Ω ~ 4.3KΩ (400 pieces)	RR0510PD-1-KIT-ND	9.95
10 each of values 4.7KΩ ~ 100KΩ (330 pieces)	RR0510PD-2-KIT-ND	7.95
Susumu 0402 1% SMD Resistor, 1/6 Watt		
10 each of values .10Ω ~ 47Ω (330 pieces)	RP1005SF-1-KIT-ND	59.95
Susumu 0603 .05% SMD Resistor, 1/16 Watt		
10 each of values 47Ω ~ 750Ω (300 pieces)	RG1608NW-1-KIT-ND	175.95
10 each of values 820Ω ~ 13KΩ (300 pieces)	RG1608NW-2-KIT-ND	175.95
10 each of values 15KΩ ~ 270KΩ (310 pieces)	RG1608NW-3-KIT-ND	175.95
Susumu 0603 .1% SMD Resistor, 1/16 Watt		
10 each of values 100Ω ~ 1.0KΩ (500 pieces)	RR0816PB-1-KIT-ND	59.95
10 each of values 1.05KΩ ~ 3.9KΩ (500 pieces)	RR0816PB-2-KIT-ND	59.95
10 each of values 3.92KΩ ~ 15.0KΩ (500 pieces)	RR0816PB-3-KIT-ND	59.95
10 each of values 15.4KΩ ~ 75KΩ (500 pieces)	RR0816PB-4-KIT-ND	59.95
10 each of values 76.8KΩ ~ 332KΩ (370 pieces)	RR0816PB-5-KIT-ND	49.95
Susumu 0603 .5% SMD Resistor, 1/16 Watt		
10 each of values 10Ω ~ 91Ω (440 pieces)	RR0816QD-1-KIT-ND	13.95
10 each of values 100Ω ~ 806Ω (500 pieces)	RR0816PD-1-KIT-ND	15.95
10 each of values 820Ω ~ 4.75KΩ (500 pieces)	RR0816PD-2-KIT-ND	15.95
10 each of values 4.87KΩ ~ 18.0KΩ (500 pieces)	RR0816PD-3-KIT-ND	15.95
10 each of values 18.2KΩ ~ 68.1KΩ (500 pieces)	RR0816PD-4-KIT-ND	15.95
10 each of values 69.8KΩ ~ 360KΩ (390 pieces)	RR0816PD-5-KIT-ND	12.95
Susumu 0603 1% SMD Resistor, 1/5 Watt		
10 each of values .10Ω ~ 68Ω (350 pieces)	RP1608SF-1-KIT-ND	49.95
Susumu 0805 .05% SMD Resistor, 1/10 Watt		
10 each of values 47Ω ~ 910Ω (320 pieces)	RG2012NW-1-KIT-ND	199.95
10 each of values 1.0KΩ ~ 20KΩ (320 pieces)	RG2012NW-2-KIT-ND	199.95
10 each of values 22KΩ ~ 470KΩ (330 pieces)	RG2012NW-3-KIT-ND	199.95
Susumu 0805 .1% SMD Resistor, 1/10 Watt		
10 each of values 100Ω ~ 1.02KΩ (500 pieces)	RR1220PB-1-KIT-ND	59.95
10 each of values 1.05KΩ ~ 4.75KΩ (500 pieces)	RR1220PB-2-KIT-ND	59.95
10 each of values 4.87KΩ ~ 21KΩ (500 pieces)	RR1220PB-3-KIT-ND	59.95
10 each of values 21.5KΩ ~ 88.7KΩ (500 pieces)	RR1220PB-4-KIT-ND	59.95
10 each of values 90.9KΩ ~ 1.0M (370 pieces)	RR1220PB-5-KIT-ND	49.95
Susumu 0805 .5% SMD Resistor, 1/10 Watt		
10 each of values 10Ω ~ 91Ω (390 pieces)	RR1220QD-1-KIT-ND	12.95
10 each of values 100Ω ~ 1.6KΩ (500 pieces)	RR1220PD-1-KIT-ND	15.95
10 each of values 1.65KΩ ~ 5.9KΩ (500 pieces)	RR1220PD-2-KIT-ND	15.95
10 each of values 6.04KΩ ~ 24.3KΩ (500 pieces)	RR1220PD-3-KIT-ND	15.95
10 each of values 24.9KΩ ~ 110KΩ (500 pieces)	RR1220PD-4-KIT-ND	15.95
10 each of values 115KΩ ~ 1.0MΩ (310 pieces)	RR1220PD-5-KIT-ND	9.95
Susumu 0805 1% SMD Resistor, 1/4 Watt		
10 each of values .10Ω ~10.0Ω (500 pieces)	RL1220SF-1-KIT-ND	19.95
Susumu 0805 1% SMD Resistor, 1/3 Watt		
10 each of values 12Ω ~ 100Ω (120 pieces)	RP2012SF-1-KIT-ND	13.95
10 each of values .10Ω ~ 10Ω (250 pieces)	RP2012TF-1-KIT-ND	29.95
Susumu 0805 2% SMD Resistor, 1/4 Watt		
10 each of values .022Ω ~ 10Ω (300 pieces)	RL1220SG-1-KIT-ND	15.95
Yageo 5% Carbon Film, 1/6 Watt		
5 each of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. thru 1.0MΩ (365 total pieces)	RS112-ND	16.96
5 each of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. thru 910kΩ (360 total pieces)	RS212-ND	16.99
200 each of all 161 standard values 1.0Ω - 4.7MΩ (32,200 total pieces)	RSE200-ND	409.00
Yageo 5% Carbon Film, 1/4 Watt		
5 ea. of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. thru 1.0MΩ (365 total pieces)	RS125-ND	14.95
5 ea. of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. thru 910kΩ (360 total pieces)	RS225-ND	14.95
200 ea. of all 169 standard values 1.0Ω - 10MΩ (33,800 total pieces)	RSQ200-ND	239.00
Yageo 5% Carbon Film, 1/2 Watt		
5 ea. of values 1.0, 1.2, 1.5, 1.8, 2.2Ω etc. thru 1.0MΩ (365 total pieces)	RS150-ND	16.95
5 ea. of values 1.1, 1.3, 1.6, 2.0, 2.4Ω etc. thru 910kΩ (360 total pieces)	RS250-ND	16.95
200 ea. of all 161 standard values 1.0Ω - 4.7MΩ (32,200 total pieces)	RSH200-ND	335.00
Yageo 1% Metal Film, 1/4 Watt		
5 each of values 10 ohm to 97.6 ohm (480 total pieces)	RS1X-ND	29.95
5 each of values 100 ohm to 976 ohm (480 total pieces)	RS2X-ND	29.95
5 each of values 1.00K to 9.76K (480 total pieces)	RS3X-ND	29.95
5 each of values 10.0K to 97.6K (480 total pieces)	RS4X-ND	29.95
5 each of values 100K to 1.00M (480 total pieces)	RS5X-ND	29.95

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Digi-Key® Resistor Kits (Cont.)

Conveniently packaged
into bags per value.

Description	Digi-Key Part No.	Price Each
Yageo 5% Metal Oxide, 1 Watt		
5 each of values 0.47 ohm to 56 ohm (255 total pieces)	RS101-ND	26.95
5 each of values 62 ohm to 7.5K (255 total pieces)	RS201-ND	26.95
5 each of values 8.2K to 1.0M (255 total pieces)	RS301-ND	26.95
Yageo 5% Metal Oxide, 2 Watt		
5 each of values 0.47 ohm to 56 ohm (255 total pieces)	RS102-ND	29.95
5 each of values 62 ohm to 7.5K (255 total pieces)	RS202-ND	29.95
5 each of values 8.2K to 1.0M (255 total pieces)	RS302-ND	29.95
Yageo 5% Wirewound Rectangular, 5 Watt		
5 each of values 0.30 ohm to 0.91 ohm (60 pieces)	RS105-ND	23.95
4 each of values 1.0 ohm to 9.1 ohm (96 pieces)	RS205-ND	32.95
4 each of values 10 ohm to 91 ohm (96 pieces)	RS305-ND	32.95
3 each of values 100 ohm to 2.0K (96 pieces)	RS405-ND	32.95
Yageo 5% Wirewound Rectangular, 10 Watt		
2 each of all 10 watt resistor values (168 total pieces)	RS110-ND	72.95
Yageo America 0402 1% Thick Film Chip Resistor Assortments, 1/16 Watt		
50 each of values 1.00 ohm to 75.0 ohm (850 total pieces)	PHL1-KIT-ND	20.95
50 each of values 100 ohm to 910 ohm (1,100 pieces)	PHL2-KIT-ND	25.95
50 each of values 1.00K ohm to 9.53K ohm (1,650 pieces)	PHL3-KIT-ND	35.95
50 each of values 10.0K ohm to 97.6K ohm (2,800 pieces)	PHL4-KIT-ND	59.95
50 each of values 100K ohm to 1.00M ohm (1,600 pieces)	PHL5-KIT-ND	39.95
Yageo America 0603 1% Thick Film Chip Resistor Assortments, 1/10 Watt		
50 each of values 1.00 ohm to 7.50 ohm (1,100 total pieces)	PHH1-KIT-ND	19.95
50 each of values 10.0 ohm to 97.6 ohm (5,650 total pieces)	PHH2-KIT-ND	79.95
50 each of values 100 ohm to 976 ohm (5,700 total pieces)	PHH3-KIT-ND	79.95
50 each of values 1.00K ohm to 9.76K ohm (5,700 total pieces)	PHH4-KIT-ND	79.95
50 each of values 10.0K ohm to 97.6K ohm (5,700 total pieces)	PHH5-KIT-ND	79.95
50 each of values 100K ohm to 1.00M ohm (5,750 total pieces)	PHH6-KIT-ND	79.95
Yageo America 0805 1% Thick Film Chip Resistor Assortments, 1/8 Watt		
50 each of values 1.00 ohm to 9.76 ohm (5,200 total pieces)	PHC1A-KIT-ND	79.95
200 each of values 1.00 ohm to 9.76 ohm (20,800 total pieces)	PHC1-KIT-ND	169.95
50 each of values 10.0 ohm to 97.6 ohm (5,700 total pieces)	PHC2A-KIT-ND	79.95
200 each of values 10.0 ohm to 97.6 ohm (22,800 total pieces)	PHC2-KIT-ND	169.95
50 each of values 100 ohm to 976 ohm (5,700 total pieces)	PHC3A-KIT-ND	79.95
200 each of values 100 ohm to 976 ohm (22,800 total pieces)	PHC3-KIT-ND	169.95
50 each of values 1.00K ohm to 9.76K ohm (5,700 total pieces)	PHC4A-KIT-ND	79.95
200 each of values 1.00K ohm to 9.76K ohm (22,800 total pieces)	PHC4-KIT-ND	169.95
50 each of values 10.0K ohm to 97.6K ohm (5,650 total pieces)	PHC5A-KIT-ND	79.95
200 each of values 10.0K ohm to 97.6K ohm (22,600 total pieces)	PHC5-KIT-ND	169.95
50 each of values 100K ohm to 1.00M ohm (5,750 total pieces)	PHC6A-KIT-ND	79.95
200 each of values 100K ohm to 1.00M ohm (23,000 total pieces)	PHC6-KIT-ND	169.95
Yageo America 1206 1% Thick Film Chip Resistor Assortments, 1/4 Watt		
50 each of values 1.00 ohm to 9.76 ohm (5,700 total pieces)	PHF1A-KIT-ND	125.95
200 each of values 1.00 ohm to 9.76 ohm (22,800 total pieces)	PHF1-KIT-ND	239.95
50 each of values 10.0 ohm to 97.6 ohm (5,700 total pieces)	PHF2A-KIT-ND	125.95
200 each of values 10.0 ohm to 97.6 ohm (22,800 total pieces)	PHF2-KIT-ND	239.95
50 each of values 100 ohm to 976 ohm (5,700 total pieces)	PHF3A-KIT-ND	125.95
200 each of values 100 ohm to 976 ohm (22,800 total pieces)	PHF3-KIT-ND	239.95
50 each of values 1.00K ohm to 9.76K ohm (5,700 total pieces)	PHF4A-KIT-ND	125.95
200 each of values 1.00K ohm to 9.76K ohm (22,800 total pieces)	PHF4-KIT-ND	239.95
50 each of values 10.0K ohm to 97.6K ohm (5,650 total pieces)	PHF5A-KIT-ND	125.95
200 each of values 10.0K ohm to 97.6K ohm (22,600 total pieces)	PHF5-KIT-ND	239.95
50 each of values 100K ohm to 1.00M ohm (5,750 total pieces)	PHF6A-KIT-ND	125.95
200 each of values 100K ohm to 1.00M ohm (23,000 total pieces)	PHF6-KIT-ND	239.95
Yageo America 0402 5% Thick Film Chip Resistor Assortments, 1/16 Watt		
50 each of values 1.0, 2.0, 3.0, 3.9 ohm etc. to 1.0M ohm (2,600 total pieces)	PHJ1A-KIT-ND	45.95
200 each of values 1.0, 2.0, 3.0, 3.9 ohm etc. to 1.0M ohm (10,400 total pieces)	PHJ1-KIT-ND	85.95
50 each of values 1.1, 2.2, 3.3, 4.3 ohm etc. to 680K ohm (2,550 total pieces)	PHJ2A-KIT-ND	45.95
200 each of values 1.1, 2.2, 3.3, 4.3 ohm etc. to 680K ohm (10,200 pieces)	PHJ2-KIT-ND	85.95
Yageo America 0603 5% Thick Film Chip Resistor Assortments, 1/10 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (3,600 total pieces)	PHG1A-KIT-ND	49.95
200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (14,400 total pieces)	PHG1-KIT-ND	89.95
50 each of values 1.1, 1.3, 1.6, 2.2 ohm etc. to 1.0M ohm (3,600 total pieces)	PHG2A-KIT-ND	49.95
200 each of values 1.1, 1.3, 1.6, 2.2 ohm etc. to 1.0M ohm (14,400 pieces)	PHG2-KIT-ND	89.95
Yageo America 0805 5% Thick Film Chip Resistor Assortments, 1/8 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 1.0M ohm (3,650 total pieces)	PHA1A-KIT-ND	59.95
200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 1.0M ohm (14,600 total pieces)	PHA1-KIT-ND	109.95
50 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 910K ohm (3,600 total pieces)	PHA2A-KIT-ND	59.95
200 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 910K ohm (14,400 pieces)	PHA2-KIT-ND	109.95
Yageo America 1206 5% Thick Film Chip Resistor Assortments, 1/4 Watt		
50 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (3,600 total pieces)	PHE1A-KIT-ND	59.95
200 each of values 1.0, 1.2, 1.5, 1.8 ohm etc. to 910K ohm (14,400 total pieces)	PHE1-KIT-ND	109.95
50 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 1.0M ohm (3,600 total pieces)	PHE2A-KIT-ND	59.95
200 each of values 1.1, 1.3, 1.6, 2.0 ohm etc. to 1.0M ohm (14,400 pieces)	PHE2-KIT-ND	109.95

Digi-Key® Thermistor Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
Keystone Thermistors		
PTC - 2 each of 6 popular thermistors (12 total pieces)	KCPTC1-KIT-ND	24.18
NTC - 2 each of 15 popular thermistors (30 total pieces)	KCNTC-KIT-ND	39.96

Digi-Key® Miscellaneous Kits

Conveniently packaged in a plastic box with bin guide
for easy storage and quick access.

Description	Digi-Key Part No.	Price Each
3M Heatshrink Precut Lengths		
FP-301 Series - 50 each of 5 sizes and 100 of 1 size (350 total pieces)	FP-KIT-ND	15.95
VFP-876 Series - 50 each of 5 sizes and 100 of 1 size (350 total pieces)	VFP-KIT-ND	16.95
3M Colored Heatshrinkable Tubing		
FP-301 Series- 1-5 ft. tubing of each color in 8 series (55 total pieces)	FPC-KIT-ND	62.95
CW Industries Switches		
Various quantities of 14 switches (130 total pieces)	SW-KIT-ND	69.95
Daburn Shrinkable Tubing, Polyolefin: Black		
5 feet of 6 popular sizes (30 total feet of tubing)	STA-KIT-ND	10.95
Diodes SOT-23 SMD Zener Diode Kit		
10 each of 18 popular diodes (180 total pieces)	BZX2-KIT-ND	23.79
ECS, Inc. Crystals		
3 each of 27 popular crystals (81 total pieces)	XC-KIT-ND	169.00
Hamlin Magnetic Switches		
Various quantities of 18 switches (22 total pieces)	HE1-KIT-ND	69.95
1 each of 18 switches (18 total pieces)	HE2-KIT-ND	49.95
Building Fasteners Hardware - 100 each of machine screws, hex nuts and lock washers in each of the following kits:		
Slotted - (1,600 total pieces)	1600-KIT-ND	17.95
Slotted - (1,600 total pieces)	1601-KIT-ND	27.95
Phillips - (1,600 total pieces)	1602-KIT-ND	17.95
Phillips - (1,600 total pieces)	1603-KIT-ND	27.78
Nylon - (1,500 total pieces)	1604-KIT-ND	53.94
Phillips, Stainless Steel - (1,400 total pieces)	1607-KIT-ND	39.95
Phillips, Stainless Steel - (1,500 total pieces)	1608-KIT-ND	79.95
Building Fasteners Hardware (Metric) - 100 each of machine screws, hex nuts, lock washers and flat washers in each of the following kits:		
Metric Phillips, Zinc Plated - (1,500 total pieces)	1605-KIT-ND	59.95
Metric Phillips, Zinc Plated - (1,500 total pieces)	1606-KIT-ND	99.95
Johnson Components Plugs and Jacks		
10 each of 15 popular plugs and jacks (150 total pieces)	J100-KIT-ND	76.95
On-Semiconductor Zener Regulator Diodes Design Kit		
180 pieces of 18 popular values	ZENREGA-KIT-ND	18.95
On-Semiconductor Analog Switches Logic Design Kit		
180 pieces of 18 popular values	ANLGSWITCHA-KIT-ND	75.95
On-Semiconductor Bipolar Power Transistors Design Kit		
44 pieces of 18 popular values	BIPAUDIOA-KIT-ND	525.00
On-Semiconductor ESD Protection Devices Design Kit		
180 pieces of 18 popular values	ZENESDA-KIT-ND	25.95
On-Semiconductor MiniGate™ Logic Design Kit		
180 pieces of 18 popular values	MINIGATEA-KIT-ND	38.99
On-Semiconductor Schottky Rectifier SMD Sample Kit		
227 pieces of 30 popular values	SCHOTTRECA-KIT-ND	149.95
On-Semiconductor Small Signal BRT Design Kit		
180 pieces of 18 popular values	SMSIGBRTA-KIT-ND	39.95
On-Semiconductor Small Signal Diodes Design Kit		
180 pieces of 18 popular values	SMSIGDIODEA-KIT-ND	31.95
On-Semiconductor Thyristor SCR Design Kit		
84 pieces of 18 popular values	SCRA-KIT-ND	119.95
On-Semiconductor Thyristor TRIAC Design Kit		
72 pieces of 18 popular values	TRIACA-KIT-ND	125.95
On-Semiconductor TO-220 Rectifier Design Kit		
68 pieces of 17 popular values	RECTO220A-KIT-ND	185.95
On-Semiconductor TVS Design Kit		
180 pieces of 18 popular values	TVSA-KIT-ND	49.95
On-Semiconductor Ultrafast Surface Mount Rectifier Design Kit		
131 pieces of 18 popular values	ULTRAFSTRECA-KIT-ND	99.95
ST Microelectronics R/R Low Power Operational Amplifiers		
5 each of 16 popular values (80 total pieces)	497-8000-KIT-ND	120.00
ST Microelectronics 74V/74LX SMD IC's		
10 each of 19 popular values (190 total pieces)	497-8001-KIT-ND	45.95
ST Microelectronics Mosfet/Driver		
5 each of 14 popular values (70 total pieces)	497-8003-KIT-ND	100.00
ST Microelectronics Mosfet Thru Hole		
5 each of 9 popular values (45 total pieces)	497-8004-KIT-ND	100.00
ST Microelectronics NPN/PNP Transistor		
5 each of 22 popular values (110 total pieces)	497-8005-KIT-ND	79.95
ST Microelectronics Schottky Diodes		
5 each of 9 popular values (45 total pieces)	497-8006A-KIT-ND	6.95
ST Miroelectronics Schottky Diodes		
5 each of 11 popular values (55 total pieces)	497-8006B-KIT-ND	44.95
ST Microelectronics Switching SMD IC's		
10 each of 11 popular values (110 total pieces)	497-8007-KIT-ND	93.95

Sealed Lead-Acid Batteries (Valve Regulated)

TECHNICAL FEATURES: "DO NOT LEAK!!"

- **Sealed Construction:** BB unique construction and sealing technique ensures that no electrolyte leakage should occur from the terminals or case. They are classified as "Non-Spillable" and meet all requirements of the International Air Transport Association (I.A.T.A.) and D.O.T.
- **Electrolyte Suspension System:** All BB batteries utilize an electrolyte suspension system consisting of a glass fibre separator material. This suspension system helps to achieve maximum service life, by fully retaining the electrolyte and preventing its escape from the separator material. No silica gels or other contaminants are used.
- **Maintenance Free Operation:** During the life of BB batteries, there is no need to check their specific gravity or add water etc. In fact, there are no provisions for such maintenance functions to be carried out.
- **Operation In Any Orientation:** The combination of sealed construction and BB's electrolyte suspension system permits operation of BB batteries in any orientation, but upside-down charging should be avoided. Battery will not lose its capacity, electrolyte, or service life under any orientation.
- **Low Pressure Venting System:** BB batteries are equipped with a safe, low pressure venting system, which is designed to release excess gas and reseal automatically in the event of the internal gas pressure rising to an unacceptable level. This low pressure venting system, coupled with the significantly high recombination efficiency, make BB batteries one of the safest valve regulated lead acid batteries available.
- **Heavy Duty Grids:** The heavy duty lead calcium alloy grids in BB batteries provide an extra margin of performance and service life in both float and cyclic applications, even in conditions of deep discharge.

The manufacturer suggests peak charging all sealed lead acid batteries before use and intermittently during storage.

- **U.L. Component Recognition:** U.L. Component Recognition under UL1989, requires that the battery safely vent when overcharged. It further requires that the equipment and battery be submitted together for formal UL approval.

Digi-Key® is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

CROSS REFERENCE ABBREVIATIONS:
EP = Eagle-Picher; YU = Yuasa; PS = Power Sonic; CS = CSB; PA = Panasonic

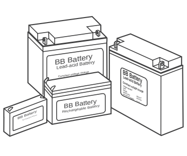

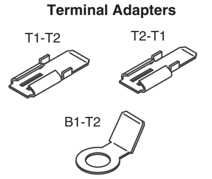

Terminal Adapters

Description	Digi-Key Part No.	Price Each	BB Part No.
0.187 Terminal ~ 0.250 Terminal	522-1019-ND	.30	T1-T2
0.250 Terminal ~ 0.187 Terminal	522-1020-ND	.30	T2-T1
Nut/Bolt Terminal ~ 0.250 Terminal	522-1021-ND	.30	B1-T2

(V)	Cap. 20h Rate (Ah)	Dimensions – Inch (mm) L x W x H	Terminal Type (Inch)	Weight* lbs. (kg)	Digi-Key Part No.	Pricing			BB Part No.	BB Replacement Battery Cross Reference (see above for mfg. abbreviations)
						1	10	Carton		
6	1.2	3.82 x 0.98 x 2.01 (97 x 25 x 51)	.187 spade	0.66 (.30)	522-1000-ND	5.27	46.80	225.23/55	BP1.2-6-T1	EP: CF-6V1.3; YU: NP1.2-6; PS: PS-612; CS: GP612; PA: LC-R061R3P, LCR6V1.3P
	3.0	5.28 x 1.34 x 2.36 (134 x 34 x 60)	.187 spade	1.43 (.65)	522-1001-ND	5.67	—	90.72/18	BP3-6-T1	EP: CF-6V3.4; YU: NP3-6; PS: PS-630; CS: GP630; PA: LC-R063R4P, LCR6V3.4P
	5.0	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	2.09 (.95)	522-1002-ND	6.55	—	86.14/16	BP5-6-T1	EP: CF-6V4.5; YU: NP4-6; PS: PS-640; CS: GP645; PA: LC-R064R2P, LCR6V4P
	7.0	5.94 x 1.34 x 3.70 (151 x 34 x 94)	.187 spade	2.87 (1.3)	522-1003-ND	9.02	—	89.02/12	BP7-6-T1	EP: CF-6V7(A); YU: NP7-6(A); PS: PS-670F1; CS: GP672F1; PA: LC-R067R2P, LCR6V7.2P
	7.0	5.94 x 1.34 x 3.70 (151 x 34 x 94)	.250 spade	2.87 (1.3)	522-1004-ND	9.83	—	97.01/12	BP7-6-T2	EP: CF-6V7(C); YU: NP7-6(D); PS: PS-670F2; CS: GP672F2; PA: LC-R067R2P1, LCR6V7.2P1
	12.0	5.94 x 1.97 x 3.70 (151 x 50 x 94)	.187 spade	4.52 (2.05)	522-1005-ND	11.84	—	77.85/8	BP12-6-T1	EP: CF-6V12(A); YU: NP12-6(A); PS: PS-6100F1; CS: GP6120F1; PA: LC-R0612P, LCR6V12P
	12.0	5.94 x 1.97 x 3.70 (151 x 50 x 94)	.250 spade	4.52 (2.05)	522-1006-ND	12.89	—	84.80/8	BP12-6-T2	EP: CF-6V12(C); YU: NP12-6(D); PS: PS-6100F2; CS: GP6120F2; PA: LC-R0612P1, LCR6V12P1
12	1.2	3.82 x 1.77 x 2.09 (97 x 45 x 53)	.187 spade	1.30 (.59)	522-1007-ND	8.06	66.23	187.95/30	BP1.2-12-T1	EP: CF-12V1.3; YU: NP1.2-12; PS: PS-1212; CS: GP1212; PA: LC-R121R3P, LCR12V1.3P
	2.3	7.01 x 1.34 x 2.36 (178 x 34 x 60)	.187 spade	2.07 (.94)	522-1008-ND	9.32	—	137.86/18	BP2.3-12-T1	EP: CF-12V2; YU: NP2.3-12; PS: PS-1220; CS: GP1222; PA: LC-R122R2P, LCR12V2.2P
	3.0	5.28 x 2.64 x 2.36 (134 x 67 x 60)	.187 spade	2.87 (1.30)	522-1009-ND	11.27	—	92.69/10	BP3-12-T1	EP: CF-12V3; YU: NP2.6-12; PS: PS-1230; CS: GP1234; PA: LC-R123R4P, LCR12V3.4P
	5.0	3.54 x 2.76 x 4.02 (90 x 70 x 102)	.187 spade	4.10 (1.86)	522-1022-ND	11.68	—	76.81/8	BP5-12-T1	EP: CF-12V4.5(A); YU: NP5-12(A); PS: PS-1250F1; CS: GP1245F1; PA: LC-R125P, LCR12V5P
	5.0	3.54 x 2.76 x 4.02 (90 x 70 x 102)	.250 spade	4.10 (1.86)	522-1010-ND	11.68	—	76.81/8	BP5-12-T2	EP: CF-12V4.5(C); YU: NP5-12(D); PS: PS-1250F2; CS: GP1245F2; PA: LC-R125P1, LCR12V5P1
	7.0	5.94 x 2.56 x 3.66 (151 x 65 x 93)	.187 spade	5.73 (2.60)	522-1011-ND	14.81	—	73.04/6	BP7-12-T1	EP: CF-12V7.2(A); YU: NP7-12(A); PS: PS-1270F1; CS: GP1272F1; PA: LC-R127R2P, LCR12V7.2P
	7.0	5.94 x 2.56 x 3.66 (151 x 65 x 93)	.250 spade	5.73 (2.60)	522-1012-ND	16.13	—	79.59/6	BP7-12-T2	EP: CF-12V7.2(C); YU: NP7-12(D); PS: PS-1270F2; CS: GP1272F2; PA: LC-R127R2P1, LCR12V7.2P1
	8.0†	5.94 x 2.56 x 3.70 (151 x 65 x 94)	.250 spade	6.06 (2.75)	522-1023-ND	23.49	—	115.88/6	HR9-12-T2	YU: NPX-L35; PS: PSH-1280F2; CS: HR1234WF2; PA: UP-RW1245P1, LC-R129P1, LCR129CH1
	12	5.94 x 3.86 x 3.70 (151 x 98 x 94)	.250 spade	8.89 (4.03)	522-1013-ND	23.67	—	77.85/4	BP12-12-T2	EP: CF-12V12; YU: NP12-12; PS: PS-12120; CS: GP12120; PA: LC-RA1212P1, LCR12V12PF
	17	7.13 x 2.99 x 6.54 (181 x 76 x 166)	nut/bolt	13.6 (6.15)	522-1014-ND	26.92	230.70	—	BP17-12-B1	EP: CF-12V17; YU: NP18-12; PS: PS-12180; CS: GP12170; PA: LC-RD1217P, LCR12V17
	28	6.89 x 6.54 x 4.92 (175 x 166 x 125)	nut/bolt	21.2 (9.6)	522-1015-ND	40.46	346.80	—	BP28-12-B1	EP: CF-12V26; YU: NP24-12; PS: PS-12260; CS: GP12260
	33	7.68 x 5.08 x 7.05 (195 x 129 x 179)	nut/bolt	24.8 (11.3)	522-1016-ND	48.83	418.50	—	BP33-12S-B7	EP: CF-12V33U1; PS: PS-12330; CS: GP12340; PA: LC-R1233P, LCR12V33
	40	7.76 x 6.50 x 6.73 (197 x 165 x 171)	nut/bolt	31.5 (14.3)	522-1017-ND	62.35	534.45	—	BP40-12-B2	EP: CFR-12V38; YU: NP38-12; PS: PS-12400; CS: GP12400; PA: LC-X1242P
	65	13.78 x 6.54 x 6.85 (350 x 166 x 174)	nut/bolt	54.0 (24.5)	522-1018-ND	91.89	787.65	—	BP65-12-B2-2	EP: CFR-12V65; YU: NP65-12; PS: PS-12750; CS: GP12650; PA: LC-X1265P, LCR12V65P

* See "Ordering Information" for note on shipping charges on prepaid orders. † Capacity at 10h rate (Ah)

Panasonic®

Sealed Lead-Acid Batteries (Valve Regulated)

GENERAL FEATURES: "DO NOT LEAK!!"

- **High Quality & High Reliability:** The LCR battery has stable and reliable capacity. 100% tested on line for voltage, capacity, and seals. And all vents are 100% visually inspected during the final assembly process.
- **High Power Density:** These batteries save installation space, while providing full and reliable power for the equipment, and many have been designed for rapid recharge, or for high power output.
- **Leak-resistant Structure:** The LCR battery uses an absorbed electrolyte system. The LCR batteries have exceptional leak resistance, **and can be used in any position.**
- **Long Service Life; Float or Cyclic:** The LCR battery has long life in float or cyclic service.
- **Easy Maintenance:** There is no need to check the specific gravity of the electrolyte or to add water to the cell service life. Totally sealed, and needs only charging for maintenance.
- **No Corrosive Gas Generation:** There is no corrosive gas generation during normal use.
- **Exceptional Deep Discharge Recovery:** LCR batteries have exceptional deep discharge recovery and charge acceptance, even after deep or prolonged discharge.
- **D.O.T and I.A.T.A. Approval:** Transportation; The SLA batteries should be handled as common cargoes for both air and boat shipping.
- **U.L. Component Recognition:** U.L. Component Recognition under UL1989, requires that the battery safely vent when overcharged. It further requires that the equipment and battery be submitted together for formal UL approval. **(UL Component Recognition does NOT remove this requirement for complete package testing).** The manufacturer suggests peak charging all sealed lead acid batteries before use and intermittently during storage.

Digi-Key® is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

CROSS REFERENCE ABBREVIATIONS:

EP = Eagle-Picher; YU = Yuasa; PS = Power Sonic; PA = Panasonic

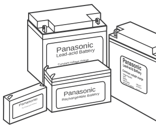

(V)	Cap. 20h Rate (Ah)	Dimensions – Inch (mm) L x W x H	Terminal Type (Inch)	Weight* lbs. (kg)	Digi-Key Part No.	Pricing			Panasonic Part No.	Panasonic Replacement Battery Cross Reference (see above for mfg. abbreviations)
						1	10	Carton		
6	1.3	3.82 x 0.94 x 1.97 (97 x 24 x 50)	.187 spade	0.66 (.30)	P128-ND	9.02	80.20	280.70/40	LC-R061R3P	EP: CF-6V1.3; YU: NP1.2-6; PS: PS-612
	3.4	5.28 x 1.34 x 2.36 (134 x 34 x 60)	.187 spade	1.37 (.62)	P166-ND	17.51	155.60	326.76/24	LC-R063R4P	EP: CF-6V3.4; YU: NP3-6; PS: PS-630
	4.5	2.76 x 1.89 x 4.02 (70 x 48 x 102)	.187 spade	1.59 (.72)	P141-ND	9.19	83.50	180.36/24	LC-R064R5P	EP: CF-6V4.5; YU: NP4-6; PS: PS-640
	7.2	5.95 x 1.34 x 3.70 (151 x 34 x 94)	.187 spade	2.78 (1.26)	P074-ND	14.58	—	143.86/12	LC-R067R2P	EP: CF-6V7(A); YU: NP7-6(A); PS: PS-670F1
	12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.187 spade	4.30 (1.95)	P075-ND	17.48	—	172.49/12	LC-R0612P	EP: CF-6V12(A); YU: NP12-6(A); PS: PS-6100F1
	12.0	5.95 x 1.97 x 3.70 (151 x 50 x 94)	.250 spade	4.30 (1.95)	P165-ND	17.48	—	172.49/12	LC-R0612P1	EP: CF-6V12(C); YU: NP12-6(D); PS: PS-6100F2
12	1.3	3.82 x 1.87 x 1.97 (97 x 47.5 x 50)	.187 spade	1.30 (.59)	P264-ND	19.04	169.20	296.10/20	LC-R121R3P	EP: CF-12V1.3; YU: NP1.2-12; PS: PS-1212
	2.2	6.97 x 1.34 x 2.36 (177 x 34 x 60)	.187 spade	1.76 (.80)	P171-ND	21.92	194.80	409.08/24	LC-R122R2P	EP: CF-12V2; YU: NP2.3-12; PS: PS-1220
	3.4	5.28 x 2.64 x 2.36 (134 x 67 x 60)	.187 spade	2.65 (1.20)	P172-ND	28.17	—	262.92/12	LC-R123R4P	EP: CF-12V3; YU: NP2.6-12; PS: PS-1230
	7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.187 spade	5.45 (2.47)	P078-ND	22.12	—	172.03/10	LC-R127R2P	EP: CF-12V7.2(A); YU: NP7-12(A); PS: PS-1270F1
	7.2	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.45 (2.47)	P218-ND	22.12	—	172.03/10	LC-R127R2P1	EP: CF-12V7.2(C); YU: NP7-12(D); PS: PS-1270F2
	12	5.95 x 3.86 x 3.70 (151 x 98 x 94)	.250 spade	8.41 (3.8)	P230-ND	34.34	—	160.23/6	LC-RA1212P1	EP: CF-12V12; YU: NP12-12; PS: PS-12120
	17	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.3 (6.5)	P174-ND	40.67	—	139.44/4	LC-RD1217P	EP: CF-12V17; YU: NP18-12; PS: PS-12180
	20	7.13 x 2.99 x 6.58 (181 x 76 x 167)	nut/bolt	14.6 (6.6)	P231-ND	47.36	—	162.36/4	LC-X1220P	—
	28	6.50 x 4.92 x 7.07 (165 x 125 x 179.5)	nut/bolt	24.3 (11)	P049-ND	61.78	529.50	—	LC-X1228P	PA: LCXB1228P
	33	7.70 x 5.12 x 7.09 (195.6 x 130 x 180)	nut/bolt	26.5 (12)	P259-ND	63.32	542.70	—	LC-R1233P	EP: CF-12V33U1; PS: PS-12330; PA: LCR12V33

(V)	Cap. @ 10 Minute Rate (watt/cell)	Dimensions — Inch (mm) L x W x H	Terminal Type (Inch)	Weight Lbs. (kg)	Digi-Key Part No.	Pricing		Panasonic Part No.	Panasonic Replacement Battery Cross Reference
						1	Carton		
Watt-Rated Series (Designed for UPS Back-up Systems)									
12	20W	5.51 x 1.52 x 3.70 (140 x 38.5 x 94)	.250 spade	2.98 (1.35)	P210-ND	20.48	202.02/12	UP-RW1220P1	—
	45W	5.95 x 2.54 x 3.70 (151 x 64.5 x 94)	.250 spade	5.62 (2.55)	P225-ND	25.43	209.05/10	UP-RW1245P1	PA; LC-R129P1, PA; LC-R129CH1

* See "Ordering Information" for note on shipping charges on prepaid orders.

PATCO

Battery Charger/ Maintainer

INTELITENDER MODELS 150 & 300

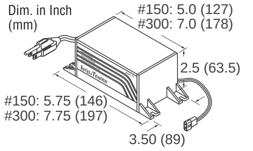

The InteliTender brings the battery to full optimum charge. Then, under the control of its computer, monitors the batteries voltage, supplying only what is needed to maintain the ideal charge.

Model 300 charges 2 batteries.

Volt	Amp	Model	Digi-Key Part No.	Price Each
Battery Chargers				
6	.75	150	PATC-02-ND*	69.93
6	1.5	150	PATC-01-ND†	69.93
12	.75	150	PATC-04-ND*	69.93
12	1.5	150	PATC-03-ND†	69.93
12 x 2	1.5 x 2	300	PATC-08-ND†	124.88
Cable (Must Order Separately)				
Battery Hook-up, Spring Clamp			PATC-07-ND	7.49
Motorcycle Hook-up, Ring Lugs			PATC-06-ND	5.00
Marine Hook-up, Ring Lugs			PATC-05-ND	5.00

* Recommended for 2.0 to 3.4 Ah batteries.
† Recommended for 4.0 Ah & above batteries.

Panasonic® Nickel-Metal Hydride Batteries and Tabbed Versions

Features: • **Superior Energy Density:** Nickel-metal hydride batteries have approximately double the capacity compared with Panasonic's standard Ni-Cad batteries • **High Cycle Life:** Like Ni-Cad batteries, nickel-metal hydride batteries can be repeatedly charged and discharged up to approximate 500 cycles (under ideal conditions).

Because a specially designed charger will be necessary, please consult the Panasonic Technical Handbook (P001-ND) regarding the charge system • **Flat trickle charge cannot be used** • **Excellent Discharge Characteristics:** Since the internal resistance of nickel-metal hydride batteries is low, continuous high-rate discharge up to 3C (10C for 4/5SC, SC) is possible in the same way as for Ni-Cad batteries. • **Excellent Reliability:** Self-discharge performance is the same or better than that of nickel-cadmium batteries. In addition, charging batteries after extended storage restores original battery capacity. Battery safety has also been improved and verified through testing under a wide range of conditions of use.

Applications: • Communication • Office Automation • Audio Visual Equipment • Other High-Tech Products.

Caution for Safety: Improper usage may cause battery liquid leakage, heat generation or explosion, resulting in equipment failure or injury • Do not disassemble or rework the battery • Do not solder the battery directly • Do not use new batteries together with old batteries, or different type batteries mixed together • Follow the specified charge conditions.

Note: • Battery Packs made with NIMH Cells include a thermostat from Texas Instrument.

Note: • Nickel-metal hydride batteries are not a drop-in replacement for Ni-Cad batteries.

It is the responsibility of each user to ensure that each battery application system is adequately designed safe and compatible with all conditions encountered during use, and in conformance with existing standards and requirements.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

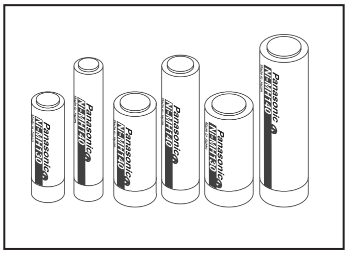

P001-ND NIMH Technical Handbook **$2.95**

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight* Oz. (gram)	Std. Chg @ 16hrs (mA)	(Control Req.) Quick Charge (mA)	(hrs.)	Digi-Key Part No.	(Regular Version) Pricing 1	10	Carton	Digi-Key Part No.	(Solder Tabbed Version) Pricing 1	10	Carton	Panasonic Part No.
AAA	1.2	700	.41 x 1.75 (10.5 x 44.5)	0.46 (13)	70	650	1.2	P213-ND†	2.13	19.13	1759.50/1380	P213T-ND	2.43	21.83	2007.90/1380	HHR-70AAAB8
AAA	1.2	700	.41 x 1.75 (10.5 x 44.5)	0.42 (12)	70	450	1.7	P008-ND	2.48	22.28	2049.30/1380	P008T-ND	2.93	26.33	2421.90/1380	HHR-75AAA
L-AAA	1.2	750	.41 x 1.97 (10.5 x 50.0)	0.53 (15)	75	750	1.2	P216-ND†	2.70	24.30	777.60/480	P216T-ND	3.00	27.00	2298.24/1440	HHR-75TA
4/5 AA	1.2	1150	.57 x 1.69 (14.5 x 43.0)	0.81 (23)	115	1150	1.2	P013-ND†	2.45	22.05	1176.00/800	P013T-ND	2.75	24.75	1320.00/800	HHR-120AA
AA	1.2	1500	.57 x 1.97 (14.5 x 50.0)	0.92 (26)	150	1500	1.2	P015-ND†	2.48	22.28	1188.00/800	P015T-ND	2.78	24.98	1332.00/800	HHR-150AA
AA	1.2	1550	.57 x 1.97 (14.5 x 50.0)	0.95 (27)	155	1500	1.2	P060-ND	2.80	25.20	1344.00/800	P060T-ND	3.23	29.03	1548.00/800	HHR-160AA
AA	1.2	2000	.57 x 1.99 (14.5 x 50.5)	1.02 (29)	200	1200	2	P220-ND	3.13	28.13	1500.00/800	P220T-ND	3.43	30.83	1644.00/800	HHR-210AA
4/5 A	1.2	2000	.67 x 1.71 (17.0 x 43.5)	1.20 (34)	200	2000	1.2	P010-ND†	3.68	33.08	1190.70/540	P010T-ND	3.98	35.78	1287.90/540	HHR-200A
A	1.2	2100	.67 x 1.97 (17.0 x 50.0)	1.34 (38)	210	2100	1.2	P017-ND†	4.35	39.15	1879.20/720	P017T-ND	4.65	41.85	2008.80/720	HHR-210A
4/3 A	1.2	3700	.67 x 2.64 (17.0 x 67.0)	1.87 (53)	370	2000	‡	P018-ND†	5.13	46.13	1107.00/360	P018T-ND	5.43	48.83	1171.80/360	HHR-380A
4/3 A	1.2	4200	.72 x 2.64 (18.2 x 67.0)	2.12(60)	420	2000	‡	P214-ND†	7.45	67.05	1788.00/300	P214T-ND	7.75	69.75	1860.00/300	HHR-450A
4/5 SC	1.2	2000	.91 x 1.34 (23.0 x 34.0)	1.48 (42)	200	2000	1.2	P020-ND†	4.93	44.33	1418.40/480	P020T-ND	6.05	54.45	1742.40/480	HHR-20SCPY14
SC	1.2	3000	.91 x 1.69 (23.0 x 43.0)	1.94 (55)	300	3000	1.2	P021-ND†	6.50	58.50	1872.00/480	P021T-ND	6.80	61.20	1958.40/480	HHR-30SCPY20
D	1.2	6500	1.30 x 2.39 (33.0 x 60.8)	6.00 (170)	650	6500	1.2	P019-ND†	18.75	168.75	1500.00/100	P019T-ND	19.05	171.45	1524.00/100	HHR-650D

† Non-extending positive terminals. * See "Ordering Information" for note on shipping charges on prepaid orders. ‡ Use dT/dt charge termination method.

Panasonic® Nickel Cadmium Batteries

The Panasonic nickel-cadmium battery is a rechargeable sealed nickel-cadmium alkaline cell.

Features:

• Long life • Excellent discharge characteristics • Long shelf life • High-rate charging • Wide temperature range • Reliable, self-resealing vent • Sealed, strong, leakproof construction

Applications:

For Cyclic Use:
• Consumer applications • Office equipment • Tools • Photography • Toys and Hobby

For Trickle or Float Charge Use:
• Emergency devices • Memory back-up

Special Purpose Batteries:

Super High Capacity and Rapid Charge "S" Type: Super high capacity and rapid charge "S" type batteries are ideal for today's high capacity needs. They feature increased capacity and rapid charging within approximate 1 hour. The high-density positive base material of foam nickel is combined with the pasted negative plate to produce a capacity approximately 40% greater than that of the rapid-charge "R" type battery of the same size.

Rapid Charge "R" Type: The "R" type cell has a specially improved negative plate with increased gas absorption characteristics. It can be subjected to controlled charging at the 1C rate and rapid-charge in 1 to 1.5 hours is possible.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

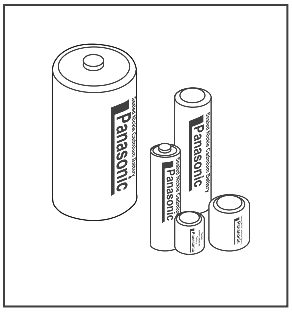

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight* Oz. (gram)	Std. Chg @ 16hrs (mA)	Quick Charge (mA)	(hrs.)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
High Capacity and Rapid Charge "S" Type													
AA	1.2	1000	0.57 x 1.97 (14.5 x 50.0)	0.81 (23)	100	1000	1.5	P252-ND	2.36	21.20	75.36/40	1002.29/800	P-100AASJ
AA	1.2	1000	0.57 x 1.97 (14.5 x 50.0)	0.81 (23)	100	1000	1.5	P092-ND†	2.21	19.85	61.74/40	917.28/800	P-100AASJ/FT
4/5A	1.2	1200	0.67 x 1.69 (17.0 x 43.0)	0.92 (26)	120	1200	1.5	P094-ND†	1.94	17.46	244.44/180	726.34/720	P-120AS/FT
A	1.2	1400	0.67 x 1.97 (17.0 x 50.0)	1.16 (33)	140	1400	1.5	P095-ND†	2.42	21.76	304.61/180	905.11/720	P-140AS/FT
4/5SC	1.2	1200	0.89 x 1.34 (22.5 x 34.0)	1.34 (38)	120	1200	1.5	P200-ND†	2.99	26.89	250.95/120	745.68/480	P-120SCJS/FT
SC	1.2	1300	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	130	1300	1.5	P162-ND†	1.76	15.86	148.05/120	439.92/480	P-130SCS/FT
SC	1.2	1500	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	150	1500	1.5	P175-ND†	1.86	16.76	156.45/120	464.88/480	P-150SCS/FT
SC	1.2	1700	0.89 x 1.69 (22.5 x 43.0)	1.69 (48)	170	1700	1.5	P180-ND†	2.31	20.81	194.25/120	577.20/480	P-170SCS/FT
NEW! Rapid Charge "R" Type NEW!													
C	1.2	2800	1.02 x 1.97 (25.8 x 50.0)	2.79 (79)	280	2800	1.5	P282-ND	5.84	52.58	347.63/85	774.72/255	P-280CS/A03
D	1.2	5000	1.30 x 2.40 (33.0 x 61.0)	5.11 (145)	500	5000	1.5	P283-ND	11.81	106.27	462.85/56	1031.50/168	P-500DS/A03

† Non-extending positive terminals. * See "Ordering Information" for note on shipping charges on prepaid orders.

(Continued)

Panasonic Nickel Cadmium Batteries – Solder Tabbed Version *(Cont.)*

Size	(V)	Capacity C/5 (mAh)	Dimensions Inch (mm) Dia. x Height	Weight* Oz. (gram)	Std. Chg @ 16hrs (mA)	Quick Charge (mA)	(hrs.)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
High Capacity and Rapid Charge "S" Type (Solder Tabbed)													
AA	1.2	1000	0.57 x 1.97 (14.5 x 50.0)	0.81 (23)	100	1000	1.5	P092T-ND	2.51	22.55	70.14/40	1042.08/800	P-100AASJ/A9
4/5AF	1.2	1200	0.67 x 1.69 (17.0 x 43.0)	0.92 (26)	120	1200	1.5	P094T-ND	2.24	20.16	322.56/180	967.68/720	P-120AS/A22
A	1.2	1400	0.67 x 1.97 (17.0 x 50.0)	1.16 (32)	140	1400	1.5	P095T-ND	2.72	24.46	342.41/180	1017.43/720	P-140AS/A16
4/5SC	1.2	1200	0.89 x 1.34 (22.5 x 34.0)	1.34 (38)	120	1200	1.5	P200T-ND	3.29	29.59	276.15/120	820.56/480	P-120SCJS/A02
SC	1.2	1300	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	130	1300	1.5	P162T-ND	2.06	18.56	173.25/120	514.80/480	P-130SCS/A06
SC	1.2	1500	0.89 x 1.69 (22.5 x 43.0)	1.55 (44)	150	1500	1.5	P175T-ND	2.16	19.46	181.65/120	539.76/480	P-150SCS/A02
SC	1.2	1700	0.89 x 1.69 (22.5 x 43.0)	1.69 (48)	170	1700	1.5	P180T-ND	2.61	23.51	219.45/120	652.08/480	P-170SCS/A02
NEW! Rapid Charge "R" Type (Solder Tabbed) NEW!													
C	1.2	2800	1.02 x 1.97 (25.8 x 50.0)	2.79 (79)	280	2800	1.5	P282T-ND	6.14	55.28	365.48/85	814.50/255	P-280CS/A03
D	1.2	5000	1.30 x 2.40 (33.0 x 61.0)	5.11 (145)	500	5000	1.5	P283T-ND	12.11	108.97	474.61/56	1057.71/168	P-500DS/A03

* See "Ordering Information" for note on shipping charges on prepaid orders.

Battery Packs

For Memory Backup, Power Tools, Radio Controlled and Other Endless Applications

All battery packs are made using our suppliers' high quality cells. Shown are standard configurations. If you have a special need or a configuration that you do not see, give us a call for further information. Packs are available in nearly all sizes of Nickel-Cadmium, NIMH, Alkaline and Carbon Zinc cylinder batteries.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

HOW TO ORDER:

Using: Panasonic Cells: **P** ☐ ☐ ☐ – ☐ ☐ ☐ ☐ – ND

Energizer Cells: **N** ☐ ☐ ☐ – ☐ ☐ ☐ ☐ – ND

Call for pricing on any standard or custom battery pack

Select Digi-Key Part No. of any Cylinder Type Battery

Select Style of Battery Pack From Chart

Style	Volts†	Cells	Configurations	Diagram
F021	2.4	2	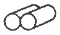	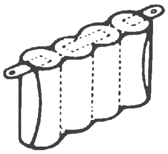
F031	3.6	3	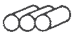	
F041	4.8	4	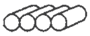	
F051	6.0	5	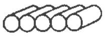	
F061	7.2	6	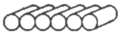	
F071	8.4	7	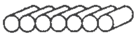	
F081	9.6	8	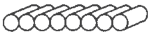	
F091	10.8	9	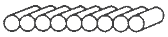	
F101	12.0	10	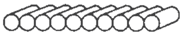	
F022	4.8	4		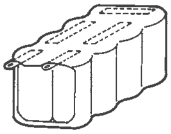
F023	7.2	6	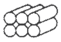	
F024	9.6	8	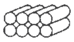	
F025	12.0	10	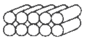	

Style	Volts†	Cells	Configurations	Diagram
L021*	2.4	2	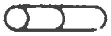	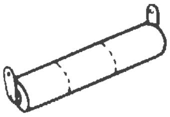
L031*	3.6	3	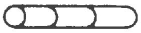	
L041*	4.8	4	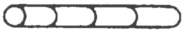	
L051*	6.0	5	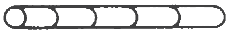	* Styles L021, L031, L041 and L051 are not available in nickel-metal hydride batteries.
L022	4.8	4	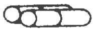	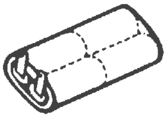
L032	7.2	6	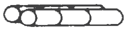	
L042	9.6	8	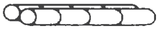	
L052	12.0	10	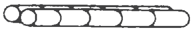	
L023	7.2	6	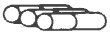	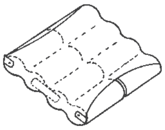
L024	9.6	8	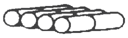	
L025	12.0	10	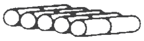	

† Voltage increments of 1.5 volts are used for Alkaline and Carbon Zinc packs.

Panasonic® Lithium Batteries

The main features of lithium batteries are as follows:

- **High Voltage:** Nominal voltage is 3V, which is nearly double that of other batteries which use the aqueous electrolyte system, such as manganese dry batteries, and silver-oxide batteries.
- **High Energy Density:** Overwhelmingly high energy density, as compared with conventional batteries and other lithium batteries. The energy density is 5 to 10 times higher than that of manganese dry batteries.
- **Long Service and Shelf Life:** Since Panasonic lithium batteries are composed of chemically and thermally stable material, self-discharge is extremely small. Deterioration when stored at room temperatures is ca. 0.5% annually – worry about deterioration is unnecessary.
- **Stable Flat Discharge Voltage:** Since conductive carbon is continuously formed during discharge, internal impedance does not increase until the end of discharge, thus stabilizing discharge voltage.
- **Excellent Temperature Characteristics:** Organic solvent ensures a low electrolyte freezing point so that the batteries can be used in a wide temperature range, -40°C ~ 85°C is standard (-40°C ~ 125°C for the High Temperature Coin Type; -40°C ~ 70°C for Camera Type; -30° ~ 60°C for CR2004/P9A).
- **BR Types versus CR Types:** BR, or (CF) n/Li, batteries provide a more stable voltage particularly during the last half of discharge, while CR, or Mn02/Li, batteries provide a higher voltage during the first half. CR batteries also can provide a higher current capability than BR batteries. In storage, BR batteries perform better at high temperatures. These characteristics must be taken into consideration when selecting a battery for a particular application.
- **UL Approval:** Panasonic Lithium batteries are UL recognized. UL File No. MH12210.
- **DOT Exemption:** Panasonic lithium cells and multiple cell batteries are authorized for transportation, in commerce, by U.S. shipping exemption DOT-E7052.
- **Disposal Information:** Panasonic lithium cells are not an EPA listed hazardous waste, but may be considered a "characteristic" hazardous waste. Lithium metal, the anode component of the cells, is considered by the U.S. EPA to be hazardous when disposed because it is reactive with water. However, a cell which contains a small quantity of lithium metal is not necessarily a hazardous waste. Disposal regulations and policies are different in each State and are subject to frequent changes. Contact your local jurisdiction for specific advice on disposal.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

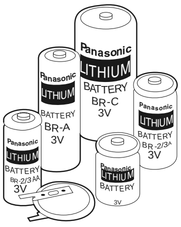

PCB Terminal Type

Fig. 1

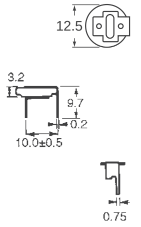

Fig. 2

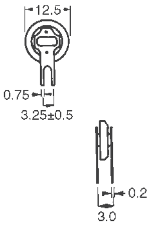

Fig. 3

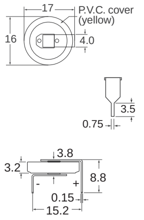

Fig. 4

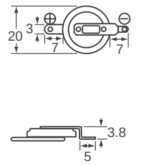

Fig. 5

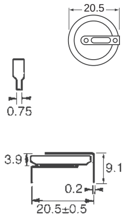

Fig. 6

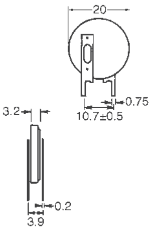

Fig. 7

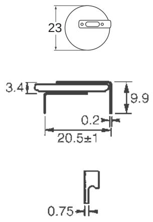

Fig. 8 (with PVC Cover)

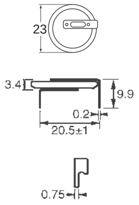

Fig. 9

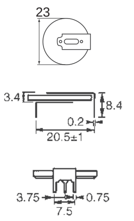

Fig. 10

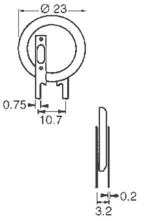

Fig. 11

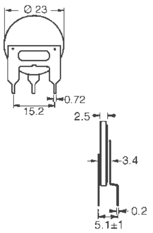

Fig. 12

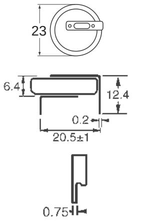

Fig. 13

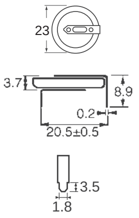

Fig. 14

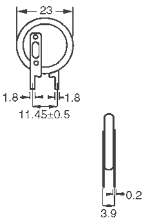

Fig. 15

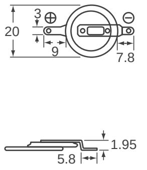

Fig. 16

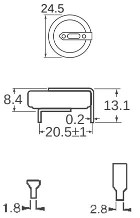

Fig. 17

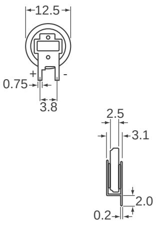

Fig. 18

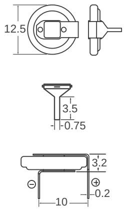

Fig. 19

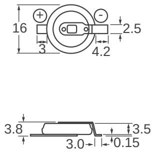

Fig. 20

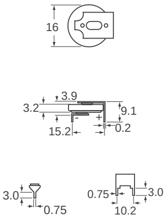

Fig. 21

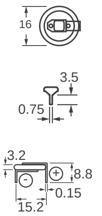

Fig. 22

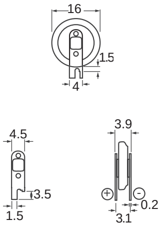

Fig. 23

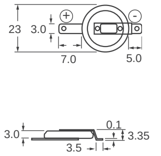

Fig. 24

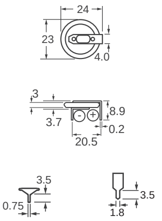

Fig. 25

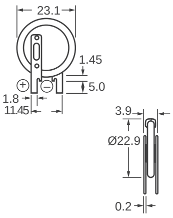

Fig. 26

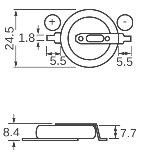

Fig. 27

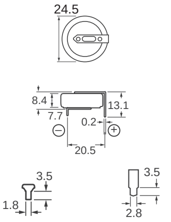

Fig. 28

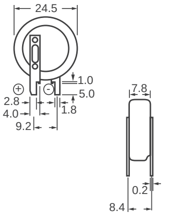

Fig. 29

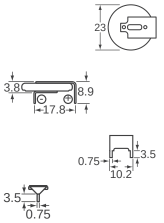

Fig. 30

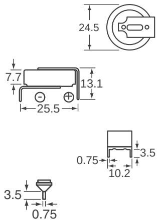

Fig.	Type	(V)	Cap. (mAh)	Dim. (mm) Dia. x Height	Wt.* (g)	Drain Std. (mA)	Digi-Key Part No.	Pricing				Panasonic Part No.
								1	10	Pkg.	Carton	
							PCB Terminal – Coin Type					
1	Coin	3	48	See Figure Above	0.8	0.03	P191-ND	1.70	15.30	163.20/120	1085.28/1,200	BR1225-1HC
2		3	48		0.8	0.03	P192-ND	1.70	15.30	272.00/200	612.00/600	BR1225-1VC
3		3	120		1.6	0.03	P299-ND	1.70	15.30	204.00/150	2170.56/2,400	BR1632-1HF
4		3	190		2.5	0.03	P223-ND	1.73	15.53	220.80/160	1468.32/1,600	BR2032-1F2
5		3	190		2.5	0.03	P196-ND	1.73	15.53	82.80/60	621.00/600	BR2032-1HE
6		3	190		2.5	0.03	P197-ND	1.73	15.53	165.60/120	621.00/600	BR2032-1VB
7		3	165		3.2	0.03	P142-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1HB
8		3	165		3.2	0.03	P202-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1HC

* See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

(Continued)

PCB Terminal Type *(Cont.)*

Fig.	Type	(V)	Cap. (mAh)	Dim. (mm) Dia. x Height	Wt.* (g)	Drain Std. (mA)	Digi-Key Part No.	Pricing				Panasonic Part No.
								1	10	Pkg.	Carton	
9	Coin	3	165	See Figure Previous Page	3.2	0.03	P193-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1HG
10		3	165		3.2	0.03	P194-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1VC
11		3	165		3.2	0.03	P195-ND	1.73	15.53	82.80/60	621.00/600	BR2325-1VG
12		6	165		6.4	0.03	P143-ND	3.55	31.95	113.60/40	852.00/400	BR2325-2HC
13		3	255		3.2	0.03	P198-ND	2.05	18.45	164.00/100	1090.60/1,000	BR2330-1HE
14		3	255		3.2	0.03	P199-ND	2.05	18.45	164.00/100	1090.60/1,000	BR2330-1VC
15		3	90		1.6	0.1	P222-ND	1.08	9.68	258.00/300	1644.75/3,000	CR2016-1F2
16		3	1000		10.5	0.2	P126-ND	4.18	37.58	334.00/100	2221.10/1,000	CR2477-1HF
PCB Terminal - High Temperature Coin Type (-40°C to 125°C)												
17	Coin	3	48	See Figure Previous Page	0.8	0.03	P290-ND	1.98	17.78	790.00/500	4029.00/4,000	BR1225A/FA
18		3	48		1.0	0.03	P061-ND	1.98	17.78	189.60/120	1260.84/1,200	BR1225A/HB
19		3	120		1.5	0.03	P022-ND	1.93	17.33	369.60/240	4712.40/4,800	BR1632A/FA
20		3	120		1.5	0.03	P291-ND	1.93	17.33	231.00/150	2457.84/2,400	BR1632A/GA
21		3	120		1.5	0.03	P023-ND	1.93	17.33	616.00/400	2457.84/2,400	BR1632A/HA
22		3	120		1.5	0.03	P024-ND	1.93	17.33	616.00/400	3927.00/4,000	BR1632A/VA
23		3	255		3.2	0.03	P025-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/FA
24		3	255		3.2	0.03	P026-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/HD
25		3	255		3.2	0.03	P027-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/VA
29		3	255		3.2	0.03	P224-ND	2.20	19.80	352.00/200	2340.80/2,000	BR2330A/GAE
26		3	1000		8.0	0.03	P028-ND	3.68	33.08	176.40/60	1323.00/600	BR2477A/FB
27		3	1000		8.0	0.03	P029-ND	3.68	33.08	294.00/100	1955.10/1,000	BR2477A/HB
28		3	1000		8.0	0.03	P030-ND	3.68	33.08	294.00/100	1955.10/1,000	BR2477A/VA
30		3	1000		8.0	0.03	P228-ND	3.68	33.08	294.00/100	1955.10/1,000	BR2477A/GAE
Pin Type												
–	Pin	3	25	4.2 x 25.9	0.55	0.5	P140-ND	3.25	29.25	780.00/300	4972.50/3,000	BR425
–		3	50	4.2 x 35.9	0.85	1.0	P139-ND	3.28	29.48	786.00/300	5010.75/3,000	BR435

* See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Computer, Camera, Standard and Standard Coin Types

Type	(V)	Cap. (mAh)	Dim. (mm) Dia. x Height	Wt.* (g)	Drain Std. (mA)	Digi-Key Part No.	Pricing				Panasonic Part No.
							1	10	Pkg.	Carton	
Computer-Type											
Pack	6	1200	19.5 x 33.9 x 36.0	31.0	2.5	P204-ND	12.63	113.63	1454.40/144	2181.60/288	BR-P2PE
Pack with 6.8KΩ resistor		1200	22.0 x 39.0 x 41.0	45.0	—	P203-ND	16.55	148.95	662.00/50	993.00/100	BR-E3C3BCA
Camera-Type											
Cyl. (Bulk pkg.)	3	850	15.6 x 27.0	11.0	20	P157-ND	4.50	40.50	360.00/100	2872.80/1,200	CR-2PA/B
Cyl. (Retail pkg.)	3	850	15.6 x 27.0	11.0	20	P155-ND	6.90	62.10	66.24/12	4404.96/1,200	CR-2PA/1BOEM
Cyl. (Bulk pkg.)	3	1500	17.0 x 34.5	17.0	20	P151-ND	2.88	25.88	230.00/100	1529.50/1,000	CR-123APA/B
Cyl. (Retail pkg.)	3	1500	17.0 x 34.5	17.0	20	P154-ND	6.90	62.10	66.24/12	4404.96/1,200	CR-123APA/1B
Pack (Retail pkg.)	3	3000	29.0 x 14.5 x 52.0	39.0	200	P212-ND	12.34	—	132.00/12	2376.00/288	CR-V3A/1BOEM
Pack (Retail pkg.)	6	1400	17.0 x 34.0 x 45.0	38.0	20	P073-ND	12.30	110.70	118.08/12	2125.44/288	2CR-5MPA/1BOEM
Pack (Retail pkg.)	6	1400	19.5 x 35.0 x 36.0	37.0	20	P205-ND	12.30	—	132.84/12	2833.92/288	CR-P2PA/1BOEM
Standard Type											
A	3	2200	17.0 x 45.5	13.5	2.5	P362-ND	11.30	101.70	180.80/20	3390.00/500	BR-AG
A with Tabs		2200	17.0 x 45.5	13.5	2.5	P362T-ND	11.60	104.40	185.60/20	3480.00/500	BR-AG-T
A		1800	17.0 x 45.5	18.0	2.5	P267-ND	9.55	85.95	764.00/100	5080.60/1,000	BR-A
A with Tabs		1800	17.0 x 45.5	18.0	2.5	P267T-ND	9.85	88.65	788.00/100	5240.20/1,000	BR-A-T
2/3 A		1450	17.0 x 33.5	13.5	2.5	P361-ND	5.35	48.15	1712.00/400	4553.92/1,600	BR-2/3AG
2/3 A with Tabs		1450	17.0 x 33.5	13.5	2.5	P361T-ND	5.65	50.85	1808.00/400	4809.28/1,600	BR-2/3AG-T
2/3 A		1200	17.0 x 33.5	13.5	2.5	P133-ND	4.70	42.30	75.20/20	2256.00/800	BR-2/3A
2/3 A with Tabs		1200	17.0 x 33.5	13.5	2.5	P201-ND	5.63	50.63	450.00/100	2992.50/1,000	BR-2/3AT-2SP
2/3 A w/2 PCB Pins		1200	17.0 x 33.5	13.5	2.5	P226-ND	5.63	50.63	450.00/100	2992.50/1,000	BR-2/3AE5SP
2/3 A w/3 PCB Pins		1200	17.0 x 33.5	13.5	2.5	P270-ND	5.63	50.63	450.00/100	2992.50/1,000	BR-2/3AE2SP
Standard Coin Type											
Coin	3	35	12.5 x 2.0	0.7	0.03	P342-ND	1.33	11.93	212.00/200	2703.00/4,000	BR1220
		48	12.5 x 2.5	0.8	0.03	P183-ND	1.23	11.03	392.00/400	2499.00/4,000	BR1225
		48	16.0 x 1.6	1.0	0.03	P184-ND	1.33	11.93	212.00/200	1409.80/2,000	BR1616
		190	20.0 x 3.2	2.5	0.03	P186-ND	1.15	10.35	184.00/200	1223.60/2,000	BR2032
		165	23.0 x 2.5	3.2	0.03	P135-ND	1.48	12.98	236.00/200	1569.40/2,000	BR2325
		255	23.0 x 3.0	3.2	0.03	P187-ND	1.83	16.43	292.00/200	1941.80/2,000	BR2330
		500	30.0 x 3.2	5.5	0.03	P341-ND	2.75	24.75	440.00/200	2926.00/2,000	BR3032
		30	10.0 x 2.5	0.7	0.1	P031-ND	1.08	9.68	344.00/400	2193.00/4,000	CR1025
		25	12.5 x 1.6	0.7	0.1	P032-ND	1.08	9.68	344.00/400	2193.00/4,000	CR1216
		35	12.5 x 2.0	1.2	0.1	P033-ND	.95	8.55	304.00/400	1938.00/4,000	CR1220
		40	16.0 x1.2	0.8	0.1	P041-ND	2.70	24.30	432.00/200	1296.00/800	CR1612
		55	16.0 x 1.6	1.2	0.1	P034-ND	1.00	9.00	160.00/200	1064.00/2,000	CR1616
		75	16.0 x 2.0	1.3	0.1	P035-ND	.93	8.33	296.00/400	1887.00/4,000	CR1620
		125	16.0 x 3.2	1.8	0.1	P036-ND	1.08	9.68	344.00/400	2193.00/4,000	CR1632
		55	20.0 x 1.2	1.4	0.1	P037-ND	1.20	10.80	384.00/400	2448.00/4,000	CR2012
		90	20.0 x 1.6	1.7	0.1	P138-ND	.38	3.38	60.00/200	239.40/1,200	CR2016
		165	20.0 x 2.5	2.5	0.2	P188-ND	.38	3.38	60.00/200	765.00/4,000	CR2025
		225	20.0 x 3.2	3.1	0.2	P189-ND	.38	3.38	60.00/200	765.00/4,000	CR2032
		265	23.0 x 3.0	4.0	0.2	P111-ND	1.43	12.83	228.00/200	1516.20/2,000	CR2330
		560	23.0 x 5.4	5.9	0.2	P117-ND	1.63	14.63	130.00/100	864.50/1,000	CR2354
		100	24.5 x 1.2	2.0	0.2	P042-ND	3.10	27.90	496.00/200	1488.00/800	CR2412
		620	24.5 x 5.0	6.3	0.2	P340-ND	1.13	10.13	90.00/100	675.00/1,000	CR2450
		1000	24.5 x 7.7	10.5	0.2	P120-ND	2.85	25.65	228.00/100	1516.20/1,000	CR2477
		500	30.0 x 3.2	7.1	0.2	P121-ND	2.45	22.05	392.00/200	2606.80/2,000	CR3032

* See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Panasonic Manganese Lithium Rechargeable Batteries (ML Series)

Features:

- **Charging at voltage levels even under 3V**. In order to support the current trend in ICs toward lower voltages, these batteries can be charged at a 3 ±0.2 voltage level, and this makes it easier to set the charging circuits for the circuits which employ 3V ICs.
- **Large capacity for hour-after-hour back-up.**
- **Excellent withstand voltage characteristics.** These batteries can withstand the application of a continuous 3.2V voltage at a high temperature of 60°C (140°F).

Applications:

- Power source for backing up memory data in mobile telephones, personal handyphone systems, memory cards, pagers, data terminals and office automation equipment.

Fig. 1

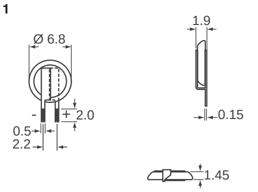

Fig. 2

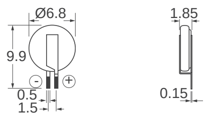

Fig. 3

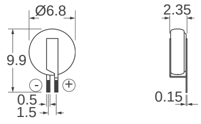

Fig. 4

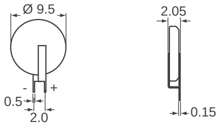

Fig. 5

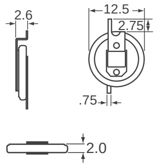

Fig. 6

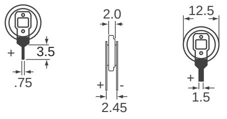

Fig. 7

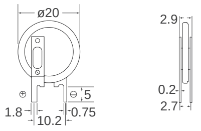

Fig. 8

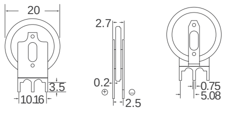

Fig. 9

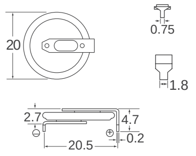

Fig.	Type	(V)	Capacity (mAh)	Dim. (mm) Dia.	Height	Weight (g)	Drain Std. (mA)	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
1			3.4	6.8	1.45	0.17	0.01	P297-ND	2.03	18.23	810.00/500	5163.75/5,000	ML614S/F9F
2	Coin	3	2.9	6.8	1.55	0.20	0.01	P043-ND	2.13	19.13	850.00/500	5418.75/5,000	ML616S/F9D
3			5.0	6.8	2.05	0.30	0.01	P044-ND	2.03	18.23	648.00/400	4131.00/4,000	ML621S/F9D
4			11.0	9.5	2.05	0.50	0.03	P296-ND	2.25	20.25	720.00/400	4590.00/4,000	ML920S/F9D
5			17.0	12.5	2.0	0.80	0.03	P295-ND	2.38	21.38	475.00/250	6056.25/5,000	ML1220/F1A
6			17.0	12.5	2.0	0.80	0.03	P294-ND	2.38	21.38	475.00/250	6056.25/5,000	ML1220/V1A
7	Coin	3	45.0	20	2.0	2.20	0.10	P045-ND	2.68	24.08	428.00/200	5457.00/4,000	ML2020/V1A
8			45.0	20	2.0	2.20	0.10	P046-ND	2.68	24.08	428.00/200	5457.00/4,000	ML2020/G1A
9			45.0	20	2.0	2.20	0.10	P047-ND	2.68	—	144.45/60	6548.40/4,800	ML2020/H1C

Niobium Titanium Lithium Rechargeable Battery

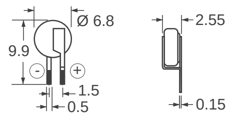

Features:

Designed for very low voltage ICs. Nominal voltage is 2.0V. These can be charged and discharged at temperatures as high as 60°C (140°F). Charging voltage is 2.5 volts.

Applications:

Power source for backing up memory data in cellular phones, PDAs (personal digital assistants), portable communication devices, and other handheld applications.

Type	Voltage (V)	Capacity (mAh)	Dim. (mm) Dia.	Height	Weight (g)	Drain Std. (mA)	Digi-Key Part No.	Price Each 1	10	400	Panasonic Part No.
Coin	2.0	4.0	6.8	2.55	0.25	0.01	P009-ND	2.13	1.92	1.70	NBL621/F9D

Vanadium Pentoxide Lithium Rechargeable Batteries

Features:

- One high-voltage battery to serve your back up needs. This single, compactly designed, cost-effective 3V battery does the work of three 1.2V Ni-Cd or two capacitors. • Months of continuous use as a backup. The VL3032 has a nominal electrical capacity of 100mAh which translates into 10,000 hours with a microprocessor load of 10 µA.

Applications:

- **Memory Backup:** Facsimiles, ECRs, telephones, typewriters, sequencers, VTRs, video cameras, personal computers, memory cards, tuners.

Fig. 1

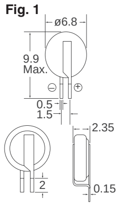

Fig. 2

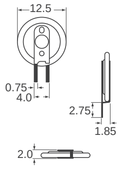

Fig. 3

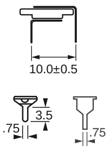

Fig. 4

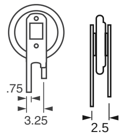

Fig. 5

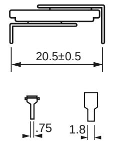

Fig. 6

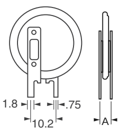

Fig. 7

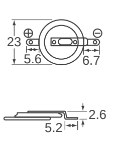

Fig. 8

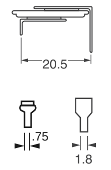

Fig. 9

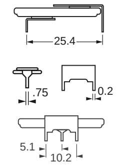

Fig. 10

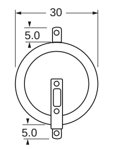

Fig.	Type	(V)	Capacity (mAh)	Dimensions (mm) Dia.	Height	A	Weight (g)	Standard Drain (mA)	Charge Current 3.4 ± 0.15V	Digi-Key Part No.	Pricing 1	10	Pkg.	Carton	Panasonic Part No.
1			1.5	6.8	2.05	—	0.3	0.01	<0.2 mA	P048-ND	4.43	39.83	1416.00/400	9027.00/4,000	VL621-F9D
2			5	12.5	2.0	—	0.7	0.03	<0.5 mA	P219-ND	3.75	33.75	750.00/250	9562.50/5,000	VL1216-1F5U
3	Coin	3	7	12.5	2.0	—	0.8	0.03	<0.5 mA	P079-ND	4.45	40.05	427.20/120	2840.88/1,200	VL1220-1HF
4			7	12.5	2.0	—	0.8	0.03	<0.5 mA	P080-ND	4.45	40.05	890.00/250	5918.50/2,500	VL1220-1VC
5			20	20.0	2.0	—	2.2	0.07	<1.5 mA	P081-ND	4.75	42.75	456.00/120	1710.00/600	VL2020-1HF
6			20	20.0	2.0	2.7	2.2	0.07	<1.5 mA	P082-ND	4.75	42.75	456.00/120	1710.00/600	VL2020-1VC
7			30	23.0	2.0	—	2.8	0.10	<2.0 mA	P221-ND	5.85	52.65	561.60/120	3734.64/1,200	VL2320-1F2
8	Coin	3	30	23.0	2.0	—	2.8	0.10	<2.0 mA	P083-ND	5.85	52.65	280.80/60	2106.00/600	VL2320-1HF
6			30	23.0	2.0	2.7	2.8	0.10	<2.0 mA	P084-ND	5.85	52.65	468.00/100	2106.00/600	VL2320-1VC
8			50	23.0	3.0	—	3.7	0.10	<2.0 mA	P085-ND	7.38	66.38	354.00/60	2655.00/600	VL2330-1HF
6			50	23.0	3.0	3.7	3.7	0.10	<2.0 mA	P086-ND	7.38	66.38	590.00/100	2655.00/600	VL2330-1VC
9	Coin	3	100	30.0	3.2	—	6.3	0.20	<4.0 mA	P087-ND	9.00	81.00	720.00/100	3240.00/600	VL3032-1GUF
10			100	30.0	3.2	—	6.3	0.20	<4.0 mA	P088-ND	9.00	81.00	1440.00/200	3240.00/600	VL3032-1F2

Due to possible restrictions, a change in shipping method may be required.

Lithium Batteries

Lithium Thionyl Chloride (Li/SOCl$_2$) Cell: Non-Rechargeable

Tadiran Lithium Thionyl Chloride cells offer enduring quality. They are a superior power source, combining the highest energy density and voltage, longest service life, lowest self-discharge, plus the widest temperature range of any battery commercially available.

These cells are ideally suited to providing long lasting power solutions for critical applications, including high tech electronics, military, consumer appliances, even state-of-the-art wireless communications. Tadiran batteries last by far longer than conventional cells, making them ideal for remote, portable, or seldom used equipment. Non-rechargeable.

TL-51XX MBU Series:

- Very low self discharge rate
- Suited for long-term operation at low current levels with long stands
- Intermittent discharge with medium current level, provided that the average current exceeds the active current level

TL-2XXX XTRA™ Series:

- Excellent shelf life (10 years)
- Very low self-discharge
- Major improvement of voltage delay at the start of discharge at medium current levels (TMV)
- Intermittent discharge at medium current levels

TL-59XX XTRA™ High Capacity Series:

- High capacity batteries for long term applications at low currents
- For use in wireless sensors, utility meters, RFID tags, toll tags for toll road pricing, etc.

Applications:

The following list represents actual applications where Tadiran Lithium cells and batteries are already being used as a main or backup source of energy:

- Utility meters and A.M.R. equipment
- PC computers and data loggers
- CMOS memory and RTC backup
- Toll tags and RFID transponders
- Programmable logic controllers
- Wireless alarm sensors
- Sea buoys and remote monitoring systems

UL Approval:

Tadiran Lithium Thionyl Chloride cells and batteries are UL recognized. UL File No. MH12193.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

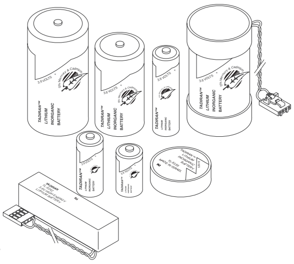

Dim. in mm

Fig. 1 — Standard

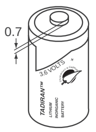

Fig. 2 — Axial Pins

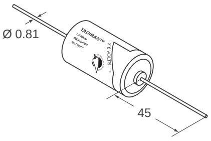

Fig. 3 — Solder Tabs

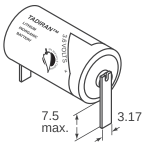

Fig. 4

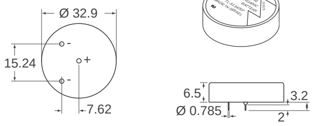

Fig. 5

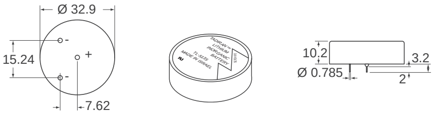

Fig. 6

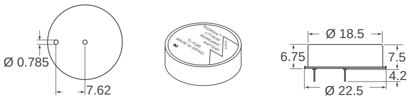

Fig. 7

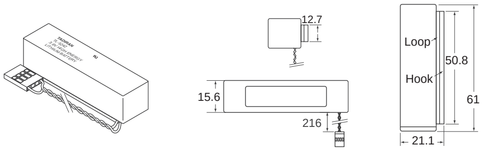

Connector Type

Housing: BERG 71627-001

Contacts: BERG 47565-002

Fig. 8

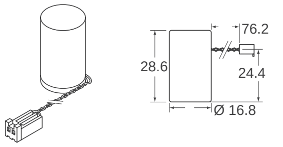

Connector Type

IDC 1308-102-426

Fig.	Type	(V)	Cap. (mAh)	Dim. (mm) Dia. x Height	Weight* (g)	Nominal Discharge Current (mA)	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing Carton	Tadiran Part No.
					MBU Series						
1	1/2AA	3.6	950	14.5 x 25.2	9	0.5	439-1002-ND	4.50	41.63	1631.25/500	TL-5101/S
2	1/2AA with Leads						439-1003-ND	4.80	44.40	1044.00/300	TL-5101/P
1	AA	3.6	2,100	14.5 x 50.5	17.4	2.0	439-1012-ND	5.50	50.88	1993.75/500	TL-5104/S
2	AA with Leads						439-1013-ND	5.80	53.65	2102.50/500	TL-5104/P
4	1/10D	3.6	1,000	See Figure	16.8	0.5	439-1023-ND	5.90	54.58	2994.25/700	TL-5134/P
5	1/6D	3.6	1,700	See Figure	21.5	0.5	439-1024-ND	6.50	60.13	2639.00/560	TL-5135/P
6	BEL	3.6	400	See Figure	5.3	0.3	439-1025-ND	4.20	38.85	1522.50/500	TL-5186
					XTRA™ Series						
1	1/2AA	3.6	1,000	14.5 x 25.2	9	1.0	439-1000-ND	4.70	43.48	1703.75/500	TL-2150/S
2	1/2AA with Leads						439-1001-ND	5.00	46.25	1087.50/300	TL-2150/P
1	AA	3.6	2,100	14.5 x 50.5	17.4	2.0	439-1010-ND	5.80	53.65	2102.50/500	TL-2100/S
2	AA with Leads						439-1011-ND	6.10	56.43	2211.25/500	TL-2100/P
					XTRA™ High Capacity Series						
1	1/2AA	3.6	1,200	14.5 x 25.2	9.2	1.0	439-1004-ND	5.50	50.88	1993.75/500	TL-5902/S
2	1/2AA with Leads						439-1005-ND	5.80	53.65	1261.50/300	TL-5902/P
3	1/2AA with Tabs						439-1006-ND	5.80	53.65	1051.25/250	TL-5902/T
1	2/3AA	3.6	1,650	14.5 x 33.5	11.8	1.3	439-1007-ND	6.20	57.35	2247.50/500	TL-5955/S
2	2/3AA with Leads						439-1008-ND	6.50	60.13	2356.25/500	TL-5955/P
3	2/3AA with Tabs						439-1009-ND	6.50	60.13	1178.13/250	TL-5955/T
1	AA	3.6	2,400	14.5 x 50.5	17.6	2.0	439-1014-ND	6.90	63.83	2501.25/500	TL-5903/S
2	AA with Leads						439-1015-ND	7.20	66.60	2610.00/500	TL-5903/P
3	AA with Tabs						439-1016-ND	7.20	66.60	1152.00/200	TL-5903/T
					Standard Battery Packs with Connectors						
7	MBU - AA	3.6	2,100	See Figure	27	2.0	439-1026-ND	10.00	92.50	2175.00/300	TL-5242/W
8	XTRA™ - 1/2AA	3.6	1,000	16.8 x 28.6	12.5	1.0	439-1027-ND	7.90	73.08	3264.68/570	TL-5276/W

* See "Ordering Information" for note on shipping charges on prepaid orders. Due to possible restrictions, a change in shipping method may be required.

Panasonic® Industrial Alkaline and OxyRide™ Batteries

MADE IN U.S.A.

The cylindrical alkaline battery is composed of: manganese dioxide for the positive-activating substance, zinc powder for the negative-activating substance, and caustic alkali for the electrolyte.

Features:

- **Large Current and Large Capacity for an Excellent Performance**
- **Stable Voltage and Current**
- **Unsurpassed Resistance to Leakage**
- **Excellent Storage Life**

Applications:

99% MERCURY FREE: • Headphone stereo, radio-cassette recorders, strobes, cameras, electronic calculators, 8 mm cameras, electric shavers, tape recorders, high-power flashlights, toys and other cordless products. Also available in tabbed version of D, C, and AA cell batteries; denoted by "T" suffix in Digi-Key part number.

OxyRide is the result of a two-way breakthrough in materials and manufacturing technology exclusive to Panasonic. The Oxyride battery uses newly developed oxyhydroxide which releases a higher initial voltage than traditional alkaline batteries, while a new vacuum-pouring technology allows a higher quantity of electrolytes to be inserted into the battery. As a result of these innovations, the Oxyride battery offers more power and longer-lasting energy.

OxyRide Recommended Applications:

• Digital Cameras • High Current Drain Devices • Applications of >500mW or >500mA

OxyRide batteries are NOT recommended for use in flashlights (except LED flashlights) or any product with bulbs

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

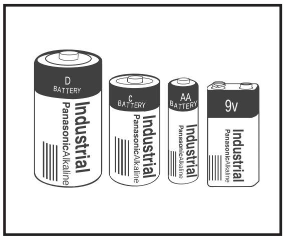

Size	Voltage (V)	Dimensions – Inch (mm)		Weight* Oz. (grams)	Capacity (to 0.9V/Cell)	Digi-Key Part No.		Pricing		Panasonic Part No.
		Diameter	Height				Each	Package	Carton	
Alkaline										
D	1.5	1.346 (34.2)	2.421 (61.5)	4.76 (135)	1200 hrs. (100Ω cont.)	P105-ND	1.68	13.44/12	141.12/144	AM-1PIX
C	1.5	1.031 (26.2)	1.969 (50.0)	2.29 (65)	380 hrs. (100Ω cont.)	P106-ND	1.26	20.16/24	157.25/288	AM-2PIX
AA	1.5	0.571 (14.5)	1.988 (50.5)	0.85 (24)	170 hrs. (100Ω cont.)	P107-ND	.54	14.40/40	140.40/600	AM-3PIX/2S
AAA	1.5	0.413 (10.5)	1.752 (44.5)	0.42 (12)	65 hrs. (100Ω cont.)	P146-ND	.54	18.00/50	117.00/500	AM-4PIX/2S
N	1.5	0.472 (12.0)	1.189 (30.2)	0.32 (9)	48 hrs. (100Ω cont.)	P147-ND†	1.08	17.28/24	280.80/600	AM5X
9V	9	1.93 x 1.04 x 0.69 (49.0 x 26.0 x 17.5)		1.66 (47)	6 hrs. (100Ω cont. to 5.4V)	P145-ND	2.13	17.04/12	265.82/288	6AM-6PIX/1S
D	1.5	Tabbed Version				P105T-ND	2.04	16.32/12	171.36/144	AM-1PIX
C	1.5	Tabbed Version				P106T-ND	1.62	25.92/24	202.18/288	AM-2PIX
AA	1.5	Tabbed Version				P107T-ND	.90	24.00/40	234.00/600	AM-3PIX/2S
NEW! OxyRide NEW!										
AA	1.5◆	0.551 (14.0)	1.969 (50.0)	0.84 (23)	2800 mWh @100 mW	P277-ND	1.20	40.00/50	520.00/1000	ZR-6XA/BOEM
AAA	1.5◆	0.402 (10.2)	1.736 (44.1)	0.42 (12)	1300 mWh @50 mW	P278-ND	1.20	40.00/50	300.00/500	ZR-03XA/BOEM

* See "Ordering Information" for note on shipping charges on prepaid orders. † Made in Japan. ◆ Initial Voltage 1.7V

Panasonic®

Extra / Super Heavy Duty Carbon Zinc Batteries

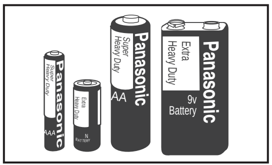

Panasonic Extra / Super Heavy Duty batteries are composed of: manganese dioxide for the positive-activating substance, zinc for the negative-activating substance, and an aqueous solution of neutral salts such as zinc chloride and ammonium chloride for the electrolyte.

Features: Leakage Resistant • Discharge Characteristics for general Applications
• Good Storage Life

Applications: • Radios, clocks and various other electronic products
• Flashlights

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	Voltage (V)	Dimensions – Inch (mm)		Weight* Oz. (grams)	Capacity (to 0.9V/Cell)	Digi-Key Part No.		Pricing		Panasonic Part No.
		Diameter	Height				Each	Pkg.	Carton	
D	1.5	1.339 (34.0)	2.421 (61.5)	3.53 (100)	700 hrs. (100Ω cont.)	P113-ND	.66	10.56/24	46.20/120	UM1NPA
C	1.5	1.031 (26.2)	1.969 (50.0)	1.82 (51.5)	310 hrs. (100Ω cont.)	P114-ND	.60	9.60/24	42.00/120	UM2NPA
AA	1.5	0.571 (14.5)	1.988 (50.5)	0.67 (19)	110 hrs. (100Ω cont.)	P103-ND	.30	12.00/60	78.00/600	UM-3NX
AAA	1.5	0.413 (10.5)	1.752 (44.5)	0.34 (9.7)	39 hrs. (100Ω cont.)	P265-ND	.27	9.00/50	70.20/600	R03NPA/BK
N	1.5	0.472 (12.0)	1.189 (30.2)	0.23 (6.55)	30 hrs. (100Ω cont.)	P266-ND	.33	11.00/50	264.00/2000	UM-5NX
9V	9	1.91 x 1.04 x 0.69 (48.5 x 26.5 x 17.5)		1.34 (38)	2.5 hrs. (100Ω cont. to 5.4V)	P104-ND	1.77	11.80/10	206.50/200	006PNX
Lantern ‡	6	2-11/16" x 2-11/16" x 4-1/16" (68.26 x 68.26 x 103.19)		20.0 (567)	Heavy duty type battery	P206-ND	4.20	45.36/12	45.36/12	W4FDPA

* See "Ordering Information" for note on shipping charges on prepaid orders. ‡ Spring top type.

Panasonic® Flashlights

Features:

• Powerful Krypton bulb for brighter and whiter light • Heavy-Duty switch • Lifetime warranty on flashlight and switch (on manufacturer defects only)

Specifications:

BF-310BPA/K:
(Fig. 1) • **Weight:** 8.53 oz. • **Batteries:** 2 Heavy-Duty "AA" size (Included) • **Brightness:** Light output of over 50 candles at 5 feet (1.52 meters)

BF-110PAB/K:
(Fig. 2) • **Weight:** 1.16 lbs. • **Batteries:** 2 Heavy-Duty "D" size (Included) • **Brightness:** Light output of over 100 candles at 5 feet (1.52 meters)

BF-796PA/K:
(Fig. 3) • **Weight:** 1.82 lbs. • **Batteries:** 4 Heavy-Duty "D" size (Included) • **Brightness:** Light output of 2500 lux

BF-187PA/K:
(Fig. 4) **Head Light Features:** • Powerful hands-free operation • Designed for comfort with wide, adjustable elastic headband and padded headrest • Pivoting lamp has high intensity bulb with hands-free operation for any job indoors or out • Lightweight 5.7 oz. (161.59 grams) • Operates on two heavy duty "AA" batteries, included

Fig. 1

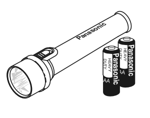

Fig. 2

Fig. 3

Fig. 4

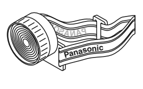

Fig.	Description	Digi-Key Part No.	Price Each	Panasonic Part No.
1	Flashlight	P056-ND	6.42	BF-310BPA/KOEM
2	Flashlight	P057-ND	7.81	BF-110BPA/KOEM
3	Lantern Flashlight	P062-ND	9.60	BF-796PA/KOEM
4	Head Light	P059-ND	11.95	BF-187PA/KOEM

ACL Staticide® PowerPen

A battery contact cleaner that inhibits and removes oxidation on all types of batteries and terminals of battery powered products. This means you will spend less money on batteries because PowerPen will maximize your batteries performance.

In addition, using PowerPen as directed will protect all terminals from corrosion, therefore extending the product life.

ST1026-ND **$6.13**

Energizer® Industrial Alkaline Batteries

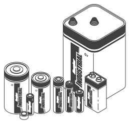

Energizer® Industrial Alkaline batteries contain the long-lasting power found in Energizer Max® alkaline batteries with a design enhanced for today's heavy current or continuous use applications.
Features: • No mercury added • Excellent shelf life **Applications:** • Telemetry • Portable Communication • Cameras • Audio Devices • High-Powered Flashlights • Pagers • TV Remote Controls • Electronic Door Locks • Smoke Detectors and more
Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	(V)	Average Capacity (mAh)	Cut-Off Voltage (V)	Rated Drain/Load	Dimensions Inch (mm) Diameter	Height	Weight Oz. (g)	Digi-Key Part No.	Each	Pricing Pkg.	Carton	Energizer Part No.
D	1.5	20,500	0.8	25mA	1.346 (34.2)	2.421 (61.5)	5.03 (141.9)	N105-ND	1.38	11.04/12	57.96/72	EN95
C	1.5	8,350	0.8	25mA	1.031 (26.2)	1.969 (50)	2.3 (66.2)	N106-ND	1.23	9.84/12	51.66/72	EN93
AA	1.5	2,779	0.8	25mA	0.571 (14.5)	1.988 (50.5)	0.8 (23)	N107-ND	.63	10.08/24	52.92/144	EN91
AAA	1.5	1,250	0.8	25mA	0.413 (10.5)	1.752 (44.5)	0.4 (11.5)	N146-ND	.63	10.08/24	52.92/144	EN92
N	1.5	1,000	0.8	25mA	0.472 (12)	1.189 (30.2)	0.3 (9)	N147-ND	.99	15.84/24	247.10/576	E90VP
9V	9.0	625	4.8	25mA	1.909 x 1.043 x 0.689	(48.5 x 26.5 x 17.5)	1.6 (45.6)	N145-ND	2.34	18.72/12	98.28/72	EN22
6V Lantern	6.0	18,000	3.2	25mA	2.685 (68.2)	4.063 (103.2)	23.5 (665)	N401-ND	10.68	51.24/6	448.35/60	EN529
D	Solder Tabbed Version of above							N105T-ND	1.71	13.68/12	71.82/72	EN95T
C	Solder Tabbed Version of above							N106T-ND	1.56	12.48/12	65.52/72	EN93T
AA	Solder Tabbed Version of above							N107T-ND	.96	15.36/24	80.64/144	EN91T
Specialty Type — Small Electronics and Keyless Entry												
Button	1.5	150	0.9	7.5kΩ	0.457 (11.6)	0.213 (5.4)	0.08 (2.3)	N402-ND	.57	9.12/24	228.00/1,000	A76VP
Cylinder	12	40	6.0	20kΩ	0.406 (10.3)	1.122 (28.5)	0.26 (7.5)	N403-ND	1.11	17.76/24	888.00/2,000	A23CVP

Super Heavy Duty Carbon Zinc Batteries

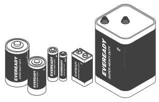

Eveready® Super Heavy Duty batteries offer power for a wide range of needs, without draining your wallet. **Features:** • Suitable for moderate current drains or regular use • No mercury added **Applications:** • Barricades • Portable Audio Devices • Smoke Detectors • Flashlights and Lanterns • Warning Flashers and more
Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Size	(V)	Average Capacity (mAh)	Cut-Off Voltage (V)	Rated Drain	Dimensions Inch (mm) Diameter	Height	Weight Oz. (g)	Digi-Key Part No.	Each	Pricing Pkg.	Carton	Energizer Part No.
D	1.5	8,000	0.8	25mA	1.346 (34.2)	2.421 (61.5)	3.1 (89)	N113-ND	.63	5.04/12	70.56/192	1250
C	1.5	3,800	0.8	25mA	1.031 (26.2)	1.969 (50)	1.6 (45)	N114-ND	.57	4.56/12	63.84/192	1235
AA	1.5	1,100	0.8	25mA	0.571 (14.5)	1.988 (50.5)	0.5 (15)	N103-ND	.48	3.84/12	53.76/192	1215
AAA	1.5	540	0.8	16mA	0.413 (10.5)	1.752 (44.5)	0.31 (9.7)	N265-ND	.48	7.68/24	13.44/48	1212
9V	9.0	400	4.8	5mA	1.909 x 1.043 x 0.689	(48.5 x 26.5 x 17.5)	1.3 (37)	N104-ND	1.53	12.24/12	64.26/72	1222
6V Lantern	6.0	11,000	3.2	25mA	2.685 (68.2)	4.063 (103.2)	21.2 (600)	N206-ND	3.13	30.00/12	131.25/60	1209

Lithium Batteries

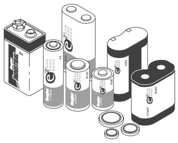

Features: • Lithium batteries substantially outlast alkaline batteries and supply energy at a constant voltage over a wide range of discharge conditions. • Lithium batteries have an estimated shelf life of up to 10 years. • The L91 AA is the world's longest lasting AA battery in high–drain applications, based on industry–standard testing. • 9 volt type for telemetry and other applications. • Energizer e²® Photo Lithium batteries provide the ideal power source for today's photographic devices, with advanced lithium technology for exceptional power in digital devices. • Coin types for keyless entry and other electronic applications.

Digi-Key is not approved by any state or federal agency as an authorized supplier of product for medical, life support or life sustaining devices or systems.

Type	(V)	Average Capacity (mAh)	Cut-Off Voltage (V)	Rated Drain/Load	Dimensions (mm) Diameter	Height	Weight (g)	Digi-Key Part No.	Each	Pricing Pkg.	Carton	Energizer Part No.
AA	1.5	3,000	1.0	200mA	14.5	50.5	14.5	N602-ND	3.70	33.30/10	2480.18/1260	L91VP
9 Volt	9	1,200	5.4	900Ω	26.5 x 17.5 x 49		36.4	N601-ND	11.13	100.13/10	890.00/100	L522MJ
Camera	3	1,500	2.0	100Ω	17	34.5	16.8	N151-ND	3.30	29.70/10	2106.72/1200	EL123APVP
Camera	3	800	2.0	100Ω	15.6	27	11.0	N157-ND	4.50	48.60/12	86.40/24	EL1CR2BP
Camera Pack	6	1,500	3.5	200Ω	34 x 17 x 45		39.5	N073-ND	12.30	66.42/6	236.16/24	EL2CR5BP
Camera Pack	6	1,400	4.0	200Ω	35 x 19.5 x 36		37.0	N205-ND	12.30	66.42/6	236.16/24	EL223APBP
Camera Pack (x2)	3	2,900	2.0	200mA	28.2 x 14 x 51.6		32	N212-ND*	23.08	124.61/6	443.04/24	ELCRV3BP2
Coin, 10MM	3	30	2.0	45kΩ	10	2.5	0.7	N031-ND	1.05	11.34/12	60.48/72	ECR1025BP
Coin, 12.5MM	3	29	2.0	45kΩ	12.5	1.6	0.7	N032-ND	1.08	11.61/12	61.92/72	ECR1216BP
Coin, 12.5MM	3	40	2.0	45kΩ	12.5	2	0.76	N033-ND	.90	8.10/10	718.20/1500	CR1220VP
Coin, 16MM	3	55	2.0	30kΩ	16	1.6	1.2	N034-ND	1.00	9.00/10	532.00/1000	CR1616VP
Coin, 16MM	3	79	2.0	30kΩ	16	2	1.4	N035-ND	.93	8.33/10	1887.00/4000	CR1620VP
Coin, 16MM	3	130	2.0	15kΩ	16	3.2	1.8	N036-ND	1.13	10.13/10	1197.00/2000	CR1632VP
Coin, 20MM	3	58	2.0	30kΩ	20	1.2	1.3	N037-ND	1.10	9.90/10	2244.00/4000	CR2012VP
Coin, 20MM	3	80	2.0	30kΩ	20	1.6	1.9	N138-ND	.33	2.93/10	172.90/1000	CR2016VP
Coin, 20MM	3	170	2.0	15kΩ	20	2.5	2.8	N188-ND	.38	3.38/10	199.50/1000	CR2025VP
Coin, 20MM	3	225	2.0	10kΩ	20	3.2	3.3	N189-ND	.33	2.93/10	172.90/1000	CR2032VP
Coin, 24.5MM	3	290	2.0	10kΩ	24.5	3	4.6	N603-ND	1.35	12.15/10	1077.30/1500	CR2430VP
Coin, 24.5MM	3	575	2.0	5.1kΩ	24.5	5	6.9	N340-ND	1.35	12.15/10	718.20/1000	CR2450VP

*One piece = package of two battery packs. Due to possible restrictions, a change in shipping method may be required.

Flashlights

Dimensions in inches

Fig. 1

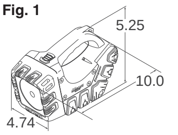

Fig. 2

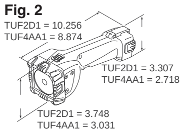

Fig. 3

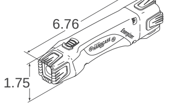

Fig. 4

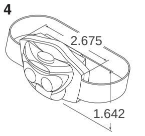

Fig. 5

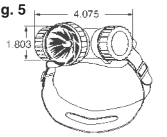

Fig. 6

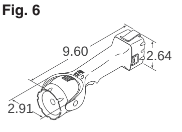

Fig. 7

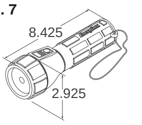

Fig. 8

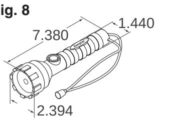

Fig. 9

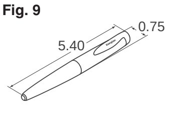

Energizer® Industrial lighting products are built tough to bring safety and security to every job.

TUF4D1: • Impact Resistant • Steel Plate Bolted Sides • Waterproof • Shatterproof Lens • Survives a 15 Foot Drop • Built-In Two Position Stand • Super Krypton Bulb
TUF2D1: • Impact Resistant • Steel Plate Bolted Sides • Waterproof • Shatterproof Lens • Survives a 15 Foot Drop • Krypton Bulb
TUF4AA1: • Impact Resistant • Steel Plate Bolted Sides • Waterproof • Shatterproof Lens • Survives a 20 Foot Drop • Krypton Bulb
TUF2AA1: • Impact Resistant • Steel Plate Bolted Sides • Water Resistant • Survives a 30 Foot Drop • 50 Hour Runtime
HD33A1EN: • 2 White LEDs • 1 Red LED-Night Vision • Hands Free Headlight • Swivel and Tilt Directional Light • 50 Hour Runtime
F420: • Hands-Free Headlight • Swivel and Tilt Directional Light • Krypton Bulb
IN421: • Swivel Head Rotates 180° • Belt Clip • Trigger Switch • Soft Ergonomic Grip • Krypton Bulb
4250: • Heavy Duty Rubber Flashlight • Impact Resistant • Krypton Bulb
K220: • Rugged, Impact Resistant Housing • Rubber Grip • Waterproof and Floats • Krypton Bulb • Lanyard Included
P211: • Strong, Lightweight Aluminum • Pocket Clip • Twist On/Off

Fig.	Description	Power Source	Lamp Output	Weight Without Batteries	Digi-Key Part No.	Price Each	Energizer Part No.
1	Hard Case Lantern	4 D	84 Lumens	42.4 oz.	N501-ND	21.50	TUF4D1H
2	Hard Case	2 D	16.5 Lumens	17.7 oz.	N502-ND	19.99	TUF2D1H
2	Hard Case	4 AA	16.5 Lumens	11.9 oz.	N503-ND	16.99	TUF4AA1H
3	LED Hard Case	2 AA*	5.6 Candela	4.1 oz.	N504-ND	15.36	TUF2AA1E
4	LED Head Beam	3 AAA*	5.6 Candela	1.6 oz.	N505-ND	18.30	HD33A1EN
5	Head Beam	4 AA*	51 Lumens	9.9 oz.	N506-ND	14.30	F420WB-A
6	Swivel head	4 AA*	16.5 Lumens	6.4 oz.	N507-ND	11.08	IN421WB-E
7	Industrial Rubber	2 D	16.5 Lumens	5.3 oz.	N508-ND	8.10	4250IND
8	Contractor	2 AA*	7 Lumens	4.0 oz.	N509-ND	7.52	K220WB-E
9	Pen Light	2 AAA*	5.5 Lumens	0.3 oz.	N510-ND	4.20	P211-1ACS

* Batteries included

Battery Clips, Contacts and Holders

Fig. 1
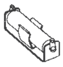

Fig. 2
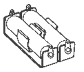

Fig. 3
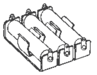

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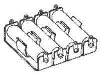

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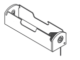

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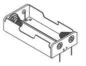

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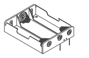

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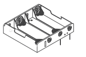

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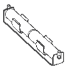

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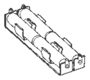

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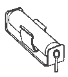

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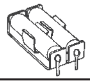

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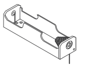

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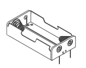

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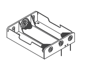

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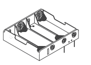

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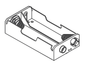

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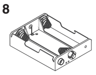

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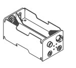

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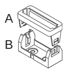

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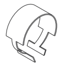

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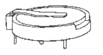

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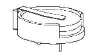

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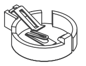

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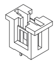
Compact

Fig. 26
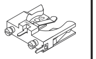
Slimline

Fig. 27
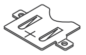

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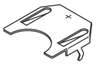

Fig. 29
Uses
CR2032
Coin Cell
Lithium
Batteries
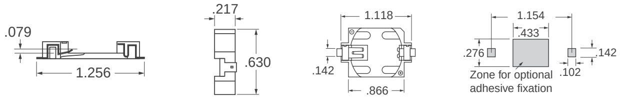

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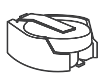

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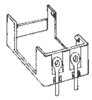

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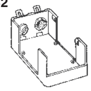

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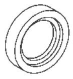

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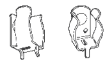

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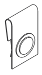

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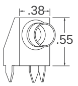

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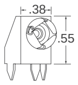

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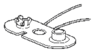

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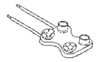

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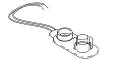

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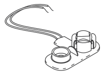

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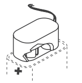

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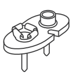

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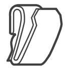

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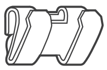

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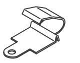

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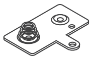

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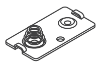

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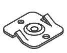

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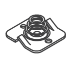

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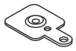

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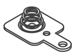

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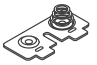

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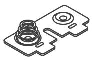

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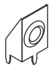

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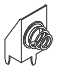

		Digi-Key	Price Each		
Fig.	Description	Part No.	1	10	100
“N” Cell Holders*					
1	1 Cell	154K-ND	1.88	1.75	1.00
2	2 Cell	155K-ND	3.33	3.11	2.06
3	3 Cell	156K-ND	6.90	6.44	4.10
“AAA” Cell Holders*					
1	1 Cell	137K-ND	2.13	1.97	1.22
2	2 Cell	138K-ND	3.48	3.26	2.23
3	3 Cell	169K-ND	5.10	4.76	3.02
4	4 Cell	170K-ND	6.96	6.50	4.15
“AAA” Cell Holders - PC Mount††					
5	1 Cell	2466K-ND	1.02	.90	.71
6	2 Cell	2468K-ND	1.06	.93	.74
7	3 Cell	2479K-ND	1.24	1.16	.99
8	4 Cell	2481K-ND	1.36	1.27	1.09
“AAA” Cell Holders - 6” Wire Leads††					
5	1 Cell	2467K-ND	1.02	.90	.71
6	2 Cell	2469K-ND	1.06	.93	.74
7	3 Cell	2480K-ND	1.24	1.16	.99
8	4 Cell	2482K-ND	1.36	1.27	1.09
“AA” Cell Holders*					
1	1 Cell	139K-ND	1.49	1.39	.79
2	2 Cell	140K-ND	2.79	2.58	1.60
3	3 Cell	171K-ND	4.09	3.82	2.42
4	4 Cell	182K-ND	5.80	5.42	3.60
9	2 Cell	189K-ND	2.35	2.17	1.39
10	4 Cell	192K-ND	3.93	3.68	2.30
11	1 Cell	2222K-ND	1.87	1.74	1.06
12	2 Cell	2223K-ND	2.96	2.74	1.78
“AA” Cell Holders - PC Mount††					
13	1 Cell	2460K-ND	1.02	.90	.71
14	2 Cell	2462K-ND	1.06	.93	.74
15	3 Cell	2464K-ND	1.24	1.16	.99
16	4 Cell	2477K-ND	1.36	1.27	1.09
“AA” Cell Holders - 6” Wire Leads††					
13	1 Cell	2461K-ND	1.02	.90	.71
14	2 Cell	2463K-ND	1.06	.93	.74
15	3 Cell	2465K-ND	1.24	1.16	.99
16	4 Cell	2478K-ND	1.36	1.27	1.09
“AA” Cell Holders - with Snap-On Connector††					
17	2 Cell	2474K-ND	1.06	.93	.74
18	3 Cell	2475K-ND	1.24	1.16	.99
19	4 Cell	2476K-ND	1.36	1.27	1.09
Cell Lithium Holders - PC Mount††					
20B	1/2 AA	108KK-ND	1.44	1.34	.73
20B	AA	1028K-ND	1.44	1.34	.73
20B	2/3 A	1029K-ND	1.44	1.34	.73
Cell Lithium Retaining Cover††					
20A	1/2 AA	108CK-ND	.43	.41	.39
20A	AA	1028CK-ND	.64	.57	.45
21	2/3 A	1029CK-ND	.61	.54	.43
“C” Cell Holders*†					
1	1 Cell	173K-ND	1.83	1.70	.97
2	2 Cell	174K-ND	2.96	2.73	1.69
3	3 Cell	187K-ND	6.17	4.63	3.62
9	2 Cell	185K-ND	2.60	2.40	1.49
10	4 Cell	196K-ND	4.57	4.27	2.92
11	1 Cell	2224K-ND	1.91	1.78	1.02
12	2 Cell	2225K-ND*	3.17	2.93	1.82
“D” Cell Holders*†					
1	1 Cell	175K-ND	1.96	1.82	1.10
2	2 Cell	176K-ND	3.45	3.19	1.97
3	3 Cell	190-ND	6.99	6.53	4.16
9	2 Cell	186K-ND	2.96	2.73	1.69
10	4 Cell	200K-ND	5.52	5.16	3.57
11	1 Cell	2226K-ND	2.45	2.27	1.39
12	2 Cell	2227K-ND	3.58	3.35	2.22

		Digi-Key	Price Each		
Fig.	Description	Part No.	1	10	100
24mm Coin Cell Lithium “PC” Holders					
22	1 Cell	105K-ND	1.47	1.37	.85
22	1 Cell	1025-7K-ND	1.62	1.51	.93
23	2 Cell	1025K-ND	1.62	1.51	.93
20mm Coin Cell Lithium “PC” Holders					
22	1 Cell	106K-ND	1.47	1.37	.85
22	1 Cell	103K-ND	1.47	1.37	.85
23	2 Cell	1026K-ND	1.62	1.51	.93
23mm Coin Cell Lithium “PC” Holders					
22	1 Cell	107K-ND	1.47	1.37	.85
23	2 Cell	1027K-ND	1.62	1.51	.93
12mm Coin Cell Lithium “PC” Holders					
22	1 Cell	500K-ND	1.19	1.04	.65
23	2 Cell	501K-ND	1.87	1.74	1.51
16mm Coin Cell Lithium “PC” Holders					
22	1 Cell	502KE-ND	1.47	1.37	.85
20mm Coin Cell Holder					
24	1 Cell	1066K-ND	1.47	1.37	.85
Vertical 20mm Coin Cell Holder					
25	1 Cell	1067K-ND	1.64	1.53	1.03
26	1 Cell	1065K-ND	1.64	1.53	1.03
Surface Mount Coin Cell Retainer Contacts					
27	12mm	3000K-ND	.51	.45	.26
27	20mm	3002K-ND	.52	.46	.27
27	23mm	3004K-ND	.53	.47	.27
27	24mm	3006K-ND	.57	.51	.28
Surface Mount Coin Cell Retainer Contact - Cut Tape					
27	1 Cell, 20mm	3002KCT-ND	.60	.35	.31
Surface Mount Coin Cell Retainer Contacts - Tape & Reel					
27	1 Cell, 20mm	3002KTR-ND	186.00/500		
Thru Hole Mount Coin Cell Retainer Contacts					
28	12mm	3001K-ND	.51	.45	.26
28	20mm	3003K-ND	.52	.46	.27
28	23mm	3005K-ND	.53	.47	.27
28	23mm	3011K-ND	.56	.49	.29
28	24mm	3007K-ND	.57	.51	.28
Surface Mount Coin Cell Holder - Bulk					
29	1 Cell, 20mm	1060K-ND	1.47	1.37	.85
30	1 Cell, 20mm	1061K-ND	1.84	1.70	1.14
30	2 Cell, 20mm	1062K-ND	1.84	1.70	1.14
30	1 Cell, 23mm	1071K-ND	1.84	1.70	1.14
Surface Mount Coin Cell Holder - Tape & Reel					
29	1 Cell, 20mm	1060KTR-ND	443.00/500		
30	1 Cell, 20mm	1061KTR-ND	251.90/200		
30	2 Cell, 20mm	1062KTR-ND	251.90/200		
30	1 Cell, 23mm	1071KTR-ND	251.90/200		
9 Volt Holders					
31	1 Cell	1294K-ND††	1.68	1.57	.91
32	1 Cell	1295K-ND††	1.62	1.51	.87
Insulated Polarizing Washers					
33	Red	59K-ND	—	.11	.07
33	Black	60K-ND	—	.11	.07
“AAA” Snap-In PC Battery Clip					
34	—	82K-ND•	.60/2	.29	.15
“AA” Snap-In PC Battery Clip					
34	1 Cell	92K-ND•	.60/2	.29	.15
“AAA”, “N” Surface Mount Battery Clip					
34	1 Cell	55KCT-ND	.55	.32	.28
“AAA”, “N” Surface Mount Battery Clip - Tape & Reel					
34	1 Cell	55KTR-ND	78.00/300		

		Digi-Key	Price Each		
Fig.	Description	Part No.	1	10	100
“AAA”, “AAAA”, “N” Snap-IN Battery Contact					
35	—	238K-ND•	.32/2	.16	.11
9 Volt “PC” Snap-On Battery (on board battery mount)					
36	Male	593K-ND	.44	.42	.23
37	Female	594K-ND	.50	.44	.28
9 Volt Battery Straps					
38	Single	72K-ND	1.17	1.09	.63
39	Dual	227K-ND	2.57	2.38	1.47
Premium 9 Volt Battery Straps (I-Style)					
40	Single, 4”	2238K-ND	.59	.52	.42
40	Single, 6”	2239K-ND	.61	.54	.43
40	Single, 8”	2240K-ND	.63	.56	.44
Premium 9 Volt Battery Straps (T-Style)					
41	Single, 4”	2241K-ND	.63	.56	.44
41	Single, 6”	2242K-ND	.65	.57	.46
41	Single, 8”	2243K-ND	.67	.59	.47
Economy 9 Volt Battery Straps (I-Style)					
40	Single, 4”	232K-ND	.42	.40	.28
40	Single, 6”	233K-ND	.43	.41	.29
40	Single, 8”	234K-ND	.44	.41	.29
Economy 9 Volt Battery Straps (T-Style)					
41	Single, 4”	235K-ND	.45	.43	.30
41	Single, 6”	236K-ND	.44	.39	.31
41	Single, 8”	237K-ND	.44	.39	.31
Shielded 9 Volt Battery Straps (I-Style)					
42	Single, 4”	84-4K-ND	.46	.41	.33
42	Single, 6”	84-6K-ND	.48	.42	.34
42	Single, 8”	84-8K-ND	.49	.43	.34
Shielded 9 Volt Battery Straps (T-Style)					
42	Single, 4”	81-4K-ND	.46	.41	.33
42	Single, 6”	81-6K-ND	.48	.42	.34
42	Single, 8”	81-8K-ND	.49	.43	.34
Vertical “9V” PC Snap-On Connector					
43	—	968K-ND	.77	.67	.56
Single “AA” Cell Contacts					
44	—	209K-ND•	.47/2	.23	.16
Dual “AA” Cell Contacts					
45	—	210K-ND•	.71/2	.34	.23
“AAA” Snap-On Contacts					
44	—	204K-ND•	.47/2	.23	.16
45	—	202K-ND•	.71/2	.34	.23
“A”, “AA” “9V” Spring Contacts					
46	—	5209K-ND	—	.40	.32
“A”, “AA” Battery Contacts					
47	Dual w/tabs	5211K-ND	—	.32	.23
48	Dual	5212K-ND	—	.39	.28
49	(+) Button	5224K-ND	—	.13	.09
50	(-) Spring	5202K-ND	—	.24	.17
51	(+) Button w/tabs	5223K-ND	—	.13	.09
52	(-) Spring w/tabs	5201K-ND	—	.21	.15
“AAA”, “AAAA”, “N” Battery Contacts					
49	(+) Button	5225K-ND	—	.09	.07
50	(-) Spring	5203K-ND	—	.32	.23
51	(+) Button w/tabs	5226K-ND	—	.13	.09
52	(-) Spring w/tabs	5204K-ND	—	.21	.15
53	Dual Left Side	5214K-ND	—	.29	.21
54	Dual Rt. Side	5213K-ND	—	.29	.21
“A” PC Contacts					
55	(+) Button	595K-ND	—	.16	.12
56	(-) Spring	628K-ND	—	.73	.39
“AA”, “AAA”, “N” PC Contacts					
55	(+) Button	637K-ND	—	.15	.11
56	(-) Spring	629K-ND	—	.73	.39

* Cell Holders are Aluminum †† Cell Holders are Plastic † “C” and “D” cell holders are dual clips only • Figs. 34, 35, 44 & 45 sold by the pair

Memory Protection Devices

Fig. 1
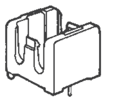

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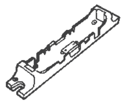

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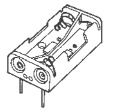

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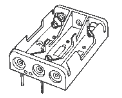

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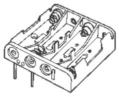

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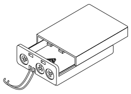

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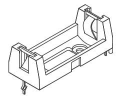

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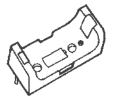

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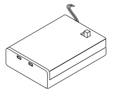

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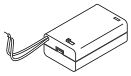

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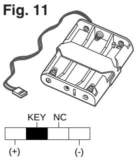

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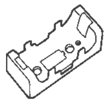

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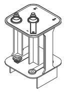

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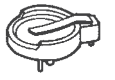

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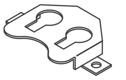

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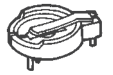

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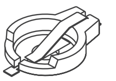

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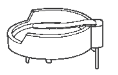

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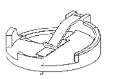

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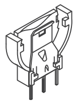

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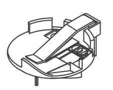

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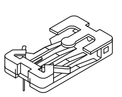

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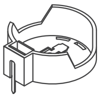

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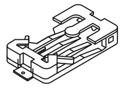

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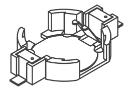

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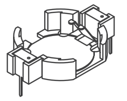

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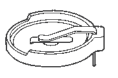

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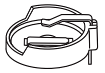

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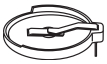

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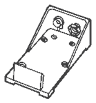

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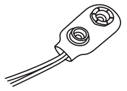

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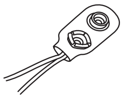

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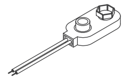

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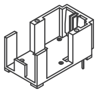

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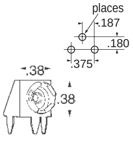

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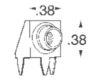

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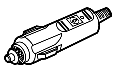

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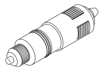

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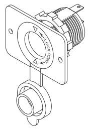

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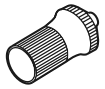

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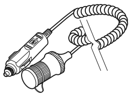

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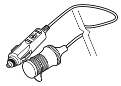

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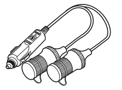

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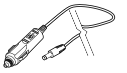

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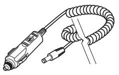

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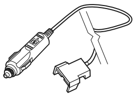

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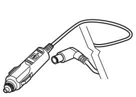

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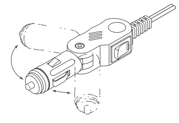

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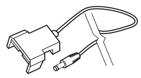

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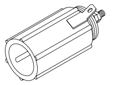

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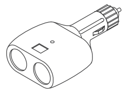

Battery Holders

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each		
				1	10	100
		"1/3N" Cell Holders				
1	1	PC Mount, Solder Legs	BC1/3N-ND	.86	.78	.66
		"N" Cell Holders				
2	2	PC Mount, Solder Legs	BH2N-ND	1.94	1.75	1.60
		"AAA" Cell Holders				
3	2	PC Mount, Solder Legs	BH2AAA-PC-ND	1.35	1.22	1.01
4	3	PC Mount, Solder Legs	BH3AAA-PC-ND	2.24	2.02	1.68
3	2	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH2AAA-W-ND	1.35	1.22	1.01
4	3	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH3AAA-W-ND	2.24	2.02	1.68
5	4	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH4AAA-W-ND	2.49	2.25	1.88
6	3	6" (152.40mm) Wire Leads, Stripped-Tinned .161" (5mm) with Cover	SBH-431A-ND	.83	.75	.63
		"AA" Cell Holders				
3	2	PC Mount, Solder Legs	BH2AA-PC-ND	1.42	1.28	1.07
4	3	PC Mount, Solder Legs	BH3AA-PC-ND	2.39	2.16	1.80
5	4	PC Mount, Solder Legs	BH4AA-PC-ND	2.59	2.34	1.95
9	3	Battery Case for 3 AA Cells, 6" (152.40mm) Wire Leads and Switch with Belt Clip	SBC331AS-GRN-ND	1.80	1.62	1.50
10	2	Battery Case for 2 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-321AS-ND	.72	.65	.60
10	3	Battery Case for 3 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-331AS-ND	1.03	.93	.86
10	4	Battery Case for 4 AA Cells, 6" (152.40mm) Wire Leads and Switch	SBH-341AS-ND	1.08	.98	.90
3	2	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH2AA-W-ND	1.42	1.28	1.07

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each		
				1	10	100
4	3	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH3AA-W-ND	2.39	2.16	1.80
5	4	6" (152.40mm) Wire Leads, Stripped-Tinned .187" (4.76mm)	BH4AA-W-ND	2.59	2.34	1.95
		Computer Clock Battery Replacement / "AA" Cell Holder				
11	3	9" (228.60mm) Wire Leads with Connector, Velcro Pads Included	BH3AA-211-ND	3.19	2.88	2.84
		"1/2AA" Cell Holders				
8	1	PC Mount, Solder Legs	BH1/2AA-2-ND	.70	.64	.58
		"2/3A" or "123A" Cell Holders				
7	1	PC Mount, Solder Legs	BC2/3AE-ND	1.33	1.23	.77
—		Cover for BC2/3AE	BC2/3AC-ND	.42	.39	.26
—		Cover for BH2/3A-2	BH2/3AC-ND	.59	.53	.45
		"C" Cell Holders				
12	1	PC Mount, Solder Legs	BHC-ND	2.02	1.82	1.76
		Lantern Battery Replacement — "D" Cell Holders				
13	4	Uses Four UM-1 or D Cells	BA4D-S-ND	2.70	2.44	2.35
		Coin Cell Holders — 10mm Cell Diameter				
14	1	PC Mount, Solder Legs, 2 ~ 2.5mm Cell Height	BH401-ND	.98	.89	.77
		Coin Cell Holders — 12.5mm Cell Diameter				
14	1	PC Mount, Solder Legs, 2 ~ 2.5mm Cell Height	BH501-ND	1.04	.87	.80
15	1	SMT, 1.6 ~ 2.5mm Cell Height	BK-885-CT-ND	.45	.38	.30
		SMT, 1.6 ~ 2.5mm Cell Height	BK-885-TR-ND	213.33/800		
		Coin Cell Holders — 16mm Cell Diameter				
16	1	PC Mount, Solder Legs, 1.6 ~ 3.2mm Cell Height	BH600-ND	.92	.83	.70
17		SMT, Temperature Range -40°C ~ 245°C	BH600SM-ND	1.13	1.02	.85
		Coin Cell Holders — 20mm Cell Diameter				
18	2	PC Mount, Solder Legs 2.5 ~ 3.2mm Cell Height	BH800S-ND	.60	.55	.54

(Continued)

Battery Holders *(Cont.)*

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
19	1	PC Mount, Solder Legs	BH32T-C-ND	.97	.73	.62
20	1	Vertical, for BR, CR2032 Battery	BS-5-ND	.74	.67	.56
21	1	Horizontal, for BR, CR2032 Battery	BS-3-ND	.77	.70	.58
23	1	Horizontal, for 3V Lithium Battery, CR2032 or BR2032	BS-7-ND	.68	.62	.52
22	1	PC Mount, Press-to-Eject Feature, CR2032 Battery	BA2032-ND	1.03	.70	.62
24		SMT, Press-to-Eject Feature, CR2032 Battery	BA2032SM-ND	1.03	.70	.62
15	1	SMT, 1.6 ~ 3.2mm Cell Height	BK-883-CT-ND	.45	.38	.30
		SMT, 1.6 ~ 3.2mm Cell Height	BK-883-TR-ND	126.00/450		
25	1	SMT for 2032, Gold	BU2032-SM-HD-GCT-ND	.75	.63	.50
		SMT for 2032, Gold	BU2032-SM-HD-GTR-ND	203.04/400		
26	1	PC Mount for 2032, Gold	BU2032-1-HD-G-ND	.54	.49	.45
		Coin Cell Holders — 23mm Cell Diameter				
18	2	PC Mount, Solder Legs, 2.5mm Cell Height	BH906S-ND	1.01	.92	.77
19	1	PC Mount, Solder Legs, 2 ~ 3.2mm Cell Height	BH908T-C-ND	.97	.73	.62
15	1	SMT, 2 ~ 3mm Cell Height	BK-884-CT-ND	.45	.38	.30
		SMT, 2 ~ 3mm Cell Height	BK-884-TR-ND	126.00/450		
		Coin Cell Holders — 24-25mm Cell Diameter				
27	1	PC Mount, Solder Legs, 2 ~ 3mm Cell Height	BH2430T-C-ND	.89	.81	.70
28		PC Mount, Solder Legs, 7.7mm Cell Height	BH1000-G-ND	1.22	1.13	.95
15	1	SMT, 2 ~ 3mm Cell Height	BK-886-CT-ND	.45	.38	.30
		SMT, 2 ~ 3mm Cell Height	BK-886-TR-ND	126.00/450		
		Coin Cell Holders — 30mm Cell Diameter				
29	1	PC Mount, Solder Legs, 3.2mm Cell Height	BH3000-ND	1.22	1.13	.95
		9-Volt Cell Holders / Snaps				
30	1	PC Mount, Solder Legs	BH9V-PC-ND	1.17	1.06	.90
		6” (152.40mm) Wire Leads	BH9V-W-ND	.88	.80	.79
31	1	6” (152.40mm) Battery Snap Cable	BS6I-ND	.30	.27	.25
		12” (304.8mm) Battery Snap Cable	BS12I-ND	.31	.28	.26
32	1	6” (152.40mm) Heavy Duty Battery Snap Cable	BS6I-HD-ND	.33	.31	.28
		12” (304.8mm) Heavy Duty Battery Snap Cable	BS12I-HD-24AWG-ND	.35	.32	.30
33	1	6” (152.40mm) I-Style Molded Case Battery Snap Cable	BS6I-MC-ND	.39	.35	.31
33	1	12” (304.8mm) I-Style Molded Case Battery Snap Cable	BS12I-MC-ND	.41	.38	.34
34	1	PC Mount, Printed Circuit Board Type with Contacts	BC9VPC-ND	1.41	1.13	1.02
		Printed Circuit Snap-Ons (off board battery mount)				
35	—	9-Volt Female Snap-on	BSPCF-ND	.24	.22	.15
36	—	9-Volt Male Snap-on	BSPCM-ND	.19	.18	.12

Cigarette Lighter Auto Power

- 21 mm (Inside Diameter) • Auto Plugs: (Fuse 3AG Style)
- The length of the cord shown in each item is measured from the welding point

Fig.	Description	Digi-Key Part No.	Price Each 1	10	100
	Auto Power Plug				
37	ABS Fused Auto Plug with LED, Black	APP-001-ND	2.25	2.03	2.00
	ABS Fused Auto Plug with LED, Gray	APP-002-ND	2.25	2.03	2.00
	ABS Fused Auto Plug with No LED, Black	APP-003-ND	2.07	1.86	1.84
38	Auto Locking Plug with LED, Black	AP121-ND	3.73	3.36	2.95
39	Auto Locking Socket, Black (use with AP121-ND)	AS212-ND	2.96	2.67	2.46
	Auto Power Assemblies				
40	Cigarette Inline Socket, Plastic	ZA2010-ND	1.13	1.02	1.00
—	Red Rubber Cap for Sockets	ZA2081-R-ND	.56	.51	.50
41	12’ (3.66 meters) Coil Cord Assembly with 5A Fused Plug with LED	ZA5070-ND	5.84	5.26	5.19
42	12’ (3.66 meters) 18AWG Cord Assembly with 10A Fused Plug with LED	ZA5071-ND	6.48	5.84	5.76
43	8” (203.2mm) 18AWG Cord Assembly with 10A Fused Plug with LED	ZA5072-ND	6.20	5.58	5.51
44	6’ (1.83 meters) 18AWG Cord, 2.1mm x 5.5mm DC Plug with 5A Fused Plug with LED	ZA5073-ND	3.85	3.47	3.42
44	6’ (1.83 meters) 18AWG Cord, 2.5mm x 5.5mm DC Plug with 5A Fused Plug with LED	ZA5073-2.5-ND	5.09	4.63	3.25
45	12’ (3.66 meters) Cord, 2.1mm x 5.5mm DC Plug, with 5A Fused Plug with LED	ZA5074-ND	6.11	5.50	5.42
46	1’ (0.30 meters) UL2468 Cord, Lead Acid Clip, with 2A Fused Plug with LED	ZA5076-ND	4.32	3.89	3.84
47	6’ (1.83 meters) Cord, 2.1mm x 5.5mm Rt. Angle DC Plug with 3A Fused Plug with LED	ZA5077-ND	3.85	3.47	3.42
48	6’ (1.83 meters) Cord, Rotary Plug, with Lighted Switch and 5A Fuse	BK-5072-ND	8.04	5.50	5.20
49	8” (203.2mm), UL2468 Cord, Lead Acid Clip, 2.1mm x 5.5mm DC Plug	ZA5350-ND	2.91	2.63	2.59
49	8” (203.2mm), UL2468 Cord, Lead Acid Clip, No Connector	ZA5350-B-ND	2.54	2.29	2.25
50	Panel Mount, Power Socket, Insert Lock	ZA2070-ND	3.36	3.00	2.71
	Panel Mount, Power Socket, Screw Lock	ZA2060-ND	2.60	2.32	2.10
51	Power Plug Splitter, One Male Plug-Two Receptacle Sockets with LED	ZA5018-ND	6.08	5.50	5.40

“Budget Balancers” Battery Holders

Fig. 1

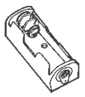

Fig. 2

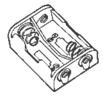

Fig. 3

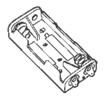

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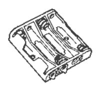

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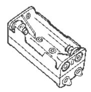

Fig. 6

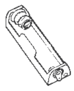

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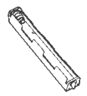

Fig. 8

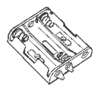

Fig. 9

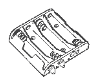

Fig. 10

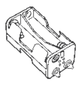

Fig. 11

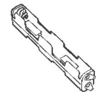

Fig. 12

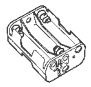

Fig. 13

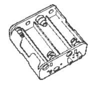

Fig. 14

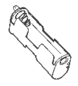

Fig. 15

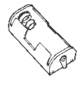

Fig. 16

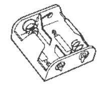

Fig. 17

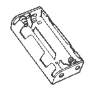

Fig. 18

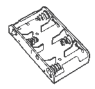

Fig. 19

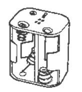

Fig. 20

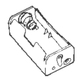

Fig. 21

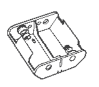

Fig. 22

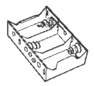

Fig. 23

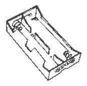

Fig. 24

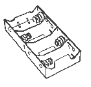

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
		“N” Cell Holders				
1	1	Solder Tabs	BHNL-ND	.58	.52	.48
2	2	Solder Tabs	BH2NL-ND	.62	.56	.52
		“AAA” Cell Holders				
3	2	Solder Tabs	BC2AAAL-ND	.62	.56	.52
4	4	Solder Tabs	BC4AAAL-ND	1.46	1.32	1.22
5	4	Solder Tabs	BH24AAAL-ND	.99	.89	.82
3	2	6” Wire Leads	BC2AAAW-ND*	.69	.63	.58
4	4	6” Wire Leads	BC4AAAW-ND*	1.49	1.35	1.24
5	4	6” Wire Leads	BH24AAAW-ND*	1.00	.91	.84
		“AA” Cell Holders				
6	1	Solder Tabs	BCAAL-ND	.54	.49	.46
7	2	Solder Tabs	BC12AAL-ND	.60	.54	.50

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
14	2	Solder Tabs	BC22AAL-ND	.58	.52	.48
8	3	Solder Tabs	BC3AAL-ND	.93	.84	.78
9	4	Solder Tabs	BC4AAL-ND	.92	.83	.76
10	4	Solder Tabs	BH24AAL-ND	.85	.77	.71
11	4	Solder Tabs	BH14AAL-ND	.71	.65	.60
12	6	Solder Tabs	BH26AAL-ND	1.20	1.08	1.00
13	8	Solder Tabs	BH48AAL-ND	1.46	1.32	1.22
14	2	6” Wire Leads	BC22AAW-ND*	.59	.54	.50
8	3	6” Wire Leads	BC3AAW-ND*	.96	.87	.80
9	4	6” Wire Leads	BC4AAW-ND*	1.00	.91	.84
10	4	6” Wire Leads	BH24AAW-ND*	.93	.84	.78
11	4	6” Wire Leads	BH14AAW-ND*	.77	.70	.64
12	6	6” Wire Leads	BH26AAW-ND*	1.26	1.14	1.06
13	8	6” Wire Leads	BH48AAW-ND*	1.49	1.35	1.24

Fig.	No. of Cells	Description	Digi-Key Part No.	Price Each 1	10	100
		“C” Cell Holders				
15	1	Solder Tabs	BHCL-ND	.65	.59	.54
16	2	Solder Tabs	BH2CL-ND	1.24	1.12	1.03
17	4	Solder Tabs	BH24CL-ND	1.37	1.24	1.15
18	4	Solder Tabs	BH4CL-ND	1.63	1.47	1.36
19	4	Solder Tabs	BH22CL-ND	1.75	1.58	1.46
		“D” Cell Holders				
20	1	Solder Tabs	BHDL-ND	.71	.65	.60
21	2	Solder Tabs	BH2DL-ND	1.37	1.24	1.15
22	3	Solder Tabs	BH3DL-ND	1.71	1.54	1.42
23	4	Solder Tabs	BH24DL-ND	1.71	1.54	1.42
24	4	Solder Tabs	BH4DL-ND	2.12	1.91	1.77

*Stripped-Tinned 3/16” (4.78mm)

Panasonic® NMB-MAT

AC Axial Fans

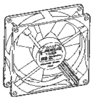

NMB-MAT AC Axial Fans suit a wide range of applications. They force air out in a “funnel” type pattern, and are ideal when cooling a specific area such as a power supply that is surrounded by numerous components with minimum ventilation available.

Size (mm)	Bearing	Voltage	Input Power (W)	Air Flow (CFM)	Noise (dB)	Leads	Digi-Key Part No.	Price Each			Panasonic Part No.	Finger Guard	Price Each
								1	5	10			
60x30	Ball	115	4.0	9.18	29	22AWG, 300mm Leads	P12871-ND	16.50	14.19	12.21	2412PS12WB30A00	CR221-ND	.57
80x25	Ball	115	5.0	19.77	33	22AWG, 300mm Leads	P12872-ND	16.50	14.19	12.21	3110PS12WB30A00	CR229-ND	.65
80x38	Ball	115	4.0	18.0	31	.110 Terminal	P12988-ND	16.50	14.19	12.21	3115FS12TB00A00	CR229-ND	.65
		115	4.0	19.4	25	22AWG, 300mm Leads	P12993-ND	16.50	14.19	12.21	3115PS12WB10A00	CR229-ND	.65
		230	6.5	20.0	35	.110 Terminal	P12875-ND	16.50	14.19	12.21	3115FS23TB10A00	CR229-ND	.65
		230	6.5	20.0	35	22AWG, 300mm Leads	P12879-ND	16.50	14.19	12.21	3115FS23WB10A00	CR229-ND	.65
		115	6.0	22.0	36	.110 Terminal	P12873-ND	16.65	14.32	12.33	3115FS12TB10A00	CR229-ND	.65
		115	6.0	22.0	36	22AWG, 300mm Leads	P12877-ND	16.50	14.19	12.21	3115FS12WB10A00	CR229-ND	.65
		230	5.0	22.0	26	22AWG, 300mm Leads	P12997-ND	16.50	14.19	12.21	3115PS23WB10A00	CR229-ND	.65
		115	4.5	24.0	32	22AWG, 300mm Leads	P12994-ND	16.50	14.19	12.21	3115PS12WB20A00	CR229-ND	.65
		230	6.0	26.0	34	.110 Terminal	P12995-ND	16.50	14.19	12.21	3115PS23TB20A00	CR229-ND	.65
		230	6.0	26.0	34	22AWG, 300mm Leads	P12998-ND	16.50	14.19	12.21	3115PS23WB20A00	CR229-ND	.65
		115	7.0	27.0	40	.110 Terminal	P12989-ND	16.50	14.19	12.21	3115FS12TB20A00	CR229-ND	.65
		115	7.0	27.0	40	22AWG, 300mm Leads	P12990-ND	16.50	14.19	12.21	3115FS12WB20A00	CR229-ND	.65
		230	7.5	28.0	40	.110 Terminal	P12991-ND	16.50	14.19	12.21	3115FS23TB20A00	CR229-ND	.65
		230	7.5	28.0	40	22AWG, 300mm Leads	P12992-ND	16.50	14.19	12.21	3115FS23WB20A00	CR229-ND	.65
		115	7.0	31.77	38	.110 Terminal	P12881-ND	16.50	14.19	12.21	3115PS12TB30A00	CR229-ND	.65
		115	8.5	32.0	44	.110 Terminal	P12874-ND	16.50	14.19	12.21	3115FS12TB30A00	CR229-ND	.65
		115	8.5	32.0	44	22AWG, 300mm Leads	P12878-ND	16.50	14.19	12.21	3115FS12WB30A00	CR229-ND	.65
		115	7.0	32.0	38	22AWG, 300mm Leads	P12882-ND	16.50	14.19	12.21	3115PS12WB30A00	CR229-ND	.65
		230	8.0	32.0	38	.110 Terminal	P12996-ND	16.50	14.19	12.21	3115PS23TB30A00	CR229-ND	.65
		230	8.0	32.0	38	22AWG, 300mm Leads	P12999-ND	16.50	14.19	12.21	3115PS23WB30A00	CR229-ND	.65
		230	8.0	33.0	44	.110 Terminal	P12876-ND	16.50	14.19	12.21	3115FS23TB30A00	CR229-ND	.65
		230	8.0	33.0	44	22AWG, 300mm Leads	P12880-ND	16.50	14.19	12.21	3115FS23WB30A00	CR229-ND	.65
92x25	Ball	115	6.0	20.0	25	.110 Terminal	P13100-ND	16.50	14.19	12.21	3610PS12TB10A00	CR220-ND	.68
		115	6.0	20.0	25	22AWG, 300mm Leads	P13102-ND	16.50	14.19	12.21	3610PS12WB10A00	CR220-ND	.68
		230	6.0	20.0	26	.110 Terminal	P13103-ND	16.50	14.19	12.21	3610PS23TB10A00	CR220-ND	.68
		115	6.0	28.0	35	.110 Terminal	P13101-ND	16.50	14.19	12.21	3610PS12TB20A00	CR220-ND	.68
		230	6.0	28.0	35	.110 Terminal	P13104-ND	16.50	14.19	12.21	3610PS23TB20A00	CR220-ND	.68
		115	9.0	34.5	38	22AWG, 300mm Leads	P12884-ND	16.50	14.19	12.21	3610PS12WB30A00	CR220-ND	.68
		230	10.0	34.5	39	22AWG, 300mm Leads	P12886-ND	16.50	14.19	12.21	3610PS23WB30A00	CR220-ND	.68
		115	9.0	34.6	38	.110 Terminal	P12883-ND	16.50	14.19	12.21	3610PS12TB30A00	CR220-ND	.68
		230	10.0	34.6	39	.110 Terminal	P12885-ND	16.50	14.19	12.21	3610PS23TB30A00	CR220-ND	.68
119x25	Ball	115	7.0	53.0	30	.110 Terminal	P12887-ND	17.00	14.62	12.58	4710PS12TB20A00	CR224-ND	.81
		230	8.0	53.0	30	.110 Terminal	P12889-ND	17.00	14.62	12.58	4710PS23TB20A00	CR224-ND	.81
		115	11.0	70.6	38	.110 Terminal	P12888-ND	17.00	14.62	12.58	4710PS12TB30A00	CR224-ND	.81
		230	11.0	70.6	38	.110 Terminal	P12890-ND	17.00	14.62	12.58	4710PS23TB30A00	CR224-ND	.81
119x38	Ball	115	5.5	49.4	28	.110 Terminal	P12891-ND	16.25	13.98	12.03	4715MS12TB10A00	CR224-ND	.81
		230	7.5	67.09	30	.110 Terminal	P13110-ND	16.25	13.98	12.03	4715MS23TB20A00	CR224-ND	.81
		115	7.0	67.1	30	.110 Terminal	P12892-ND	16.25	13.98	12.03	4715MS12TB20A00	CR224-ND	.81
		115	10.0	70.0	33	.110 Terminal	P12895-ND	16.88	14.52	12.49	4715FS12TB10D00	CR224-ND	.81
		230	9.0	70.0	70	.110 Terminal	P12897-ND	16.88	14.52	12.49	4715FS23TB10D00	CR224-ND	.81
		115	9.8	80.0	36	.110 Terminal	P13105-ND	16.88	14.52	12.49	4715FS12TB20D00	CR224-ND	.81
		230	11.0	88.28	37	.110 Terminal	P13111-ND	16.25	13.98	12.03	4715MS23TB30A00	CR224-ND	.81
		115	14.5	102	41	.110 Terminal	P12893-ND	16.25	13.98	12.03	4715MS12TB50A00	CR224-ND	.81
		115	14.5	90.0	39	.110 Terminal	P13106-ND	16.88	14.52	12.49	4715FS12TB30D00	CR224-ND	.81
		115	13.0	95.34	39	.110 Terminal	P13109-ND	16.25	13.98	12.03	4715MS12TB40A00	CR224-ND	.81
		230	13.0	95.34	39	.110 Terminal	P13112-ND	16.25	13.98	12.03	4715MS23TB40A00	CR224-ND	.81
		115	14.0	100.0	42	.110 Terminal	P13107-ND	16.88	14.52	12.49	4715FS12TB40D00	CR224-ND	.81
		230	14.0	100.0	100	.110 Terminal	P13108-ND	16.88	14.52	12.49	4715FS23TB40D00	CR224-ND	.81
		230	14.0	102.4	41	.110 Terminal	P12894-ND	16.88	14.52	12.49	4715MS23TB50A00	CR224-ND	.81
		115	14.4	110	45	.110 Terminal	P12896-ND	16.88	14.52	12.49	4715FS12TB50D00	CR224-ND	.81
		230	14.0	110	110	.110 Terminal	P12898-ND	16.88	14.52	12.49	4715FS23TB50D00	CR224-ND	.81
150x172x38	Ball	115	32.0	21.2	56	.110 Terminal	P12899-ND	50.00	43.00	37.00	5915PC12TB30A00	CR191-ND	2.28
		230	35.0	21.2	56	.110 Terminal	P12900-ND	50.00	43.00	37.00	5915PC23TB30A00	CR191-ND	2.28
		230	18.0	102.4	38	.110 Terminal	P13113-ND	50.00	43.00	37.00	5915PC23TB10A00	CR191-ND	2.28

Panasonic® NMB-MAT

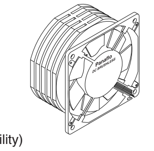

DC Fans FBL Series

Features:
- Louvered design increases air flow and decreases turbulent noise at standard rating conditions
- Hydro-Wave Bearing Technology

Specifications:
- Operating Temperature: -10°C ~ 70°C (65%RH)
- Plastic Rating: All Panaflo fans are manufactured with a UL94V-0 plastic (flammability)
- Noise Data: The noise data is measured at 1 meter from the air intake side of the fan suspended in a semi-anechoic chamber (background noise 13dB-A maximum)
- Life Expectancy: 50,000 hours (40°C, 65%RH)

Operating Voltage (VDC)		Dim. (mm)	Input Power	Max. Air Flow	Max. Air Pressure	Max. Noise	Lead Length	Digi-Key	Price Each					Panasonic	Finger	Price
Nom.	Range	Sq.xThk.	(W)	(CFM)	(mmH_2O)	(dB-A)	(mm)	Part No.	1	5	10	50	100	Part No.	Guards	Each
12	7-13.5	60 x 25.5	3.24	15.89	4.7	42.0	315	P10893-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12U1A	CR221-ND	.57
12	7-13.5	60 x 25.5	3.24	15.89	4.7	42.0	315	P11091-ND	8.75	7. 53	6.48	5.81	5.25	FBL06A12U1BS	CR221-ND	.57
12	7-13.8	60 x 25.5	2.64	14.83	4.1	36.0	315	P10892-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12H1A	CR221-ND	.57
12	7-13.8	60 x 25.5	2.04	13.06	3.0	32.0	315	P10891-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12M1A	CR221-ND	.57
12	7-13.8	60 x 25.5	1.68	14.83	2.1	29.0	315	P10890-ND	8.75	7.53	6.48	5.81	5.25	FBL06A12L1A	CR221-ND	.57
24	14-27.6	60 x 25.5	3.24	15.89	4.7	42.0	315	P11017-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24U1A	CR221-ND	.57
24	14-27.6	60 x 25.5	2.64	14.83	4.1	36.0	315	P11016-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24H1A	CR221-ND	.57
24	14-27.6	60 x 25.5	2.04	13.06	3.0	32.0	315	P11015-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24M1A	CR221-ND	.57
24	14-27.6	60 x 25.5	1.68	14.83	2.1	29.0	315	P11014-ND	8.75	7.53	6.48	5.81	5.25	FBL06A24L1A	CR221-ND	.57
12	7-13.5	80 x 25.5	4.32	35.31	4.7	42.0	300	P11082-ND	9.25	7.96	6.85	6.15	5.55	FBL08A12U1BX	CR180-ND	.85
12	7-13.8	80 x 25.5	4.32	35.31	4.0	42.0	300	P10897-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12U1A	CR180-ND	.85
12	7-13.8	80 x 25.5	3.00	30.01	2.9	39.0	300	P10896-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12H1A	CR180-ND	.85
12	7-13.8	80 x 25.5	2.04	24.71	2.0	33.0	300	P10895-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12M1A	CR180-ND	.85
12	7-13.8	80 x 25.5	1.20	17.30	1.1	26.0	300	P10894-ND	8.75	7.53	6.48	5.81	5.25	FBL08A12L1A	CR180-ND	.85
24	14-27.6	80 x 25.5	4.32	35.30	4.0	42.0	300	P11021-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24U1A	CR180-ND	.85
24	14-27.6	80 x 25.5	3.00	30.00	2.9	39.0	300	P11020-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24H1A	CR180-ND	.85
24	14-27.6	80 x 25.5	2.04	24.71	2.0	33.0	300	P11019-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24M1A	CR180-ND	.85
24	14-27.6	80 x 25.5	1.20	17.30	1.1	26.0	300	P11018-ND	8.75	7.53	6.48	5.81	5.25	FBL08A24L1A	CR180-ND	.85
12	7-13.5	92 x 25.5	3.48	45.89	3.3	40.0	295	P10900-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12H1A	CR220-ND	.68
12	7-13.5	92 x 25.5	3.48	45.9	3.3	40.0	295	P11083-ND	9.25	7.96	6.85	6.15	5.55	FBL09A12H1BX	CR220-ND	.68
12	7-13.8	92 x 25.5	6.60	54.72	4.4	47.0	295	P10901-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12U1A	CR220-ND	.68
12	7-13.8	92 x 25.5	2.40	35.30	2.3	36.0	295	P10899-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12M1A	CR220-ND	.68
12	7-13.8	92 x 25.5	1.80	31.77	1.9	33.0	295	P10898-ND	8.75	7.53	6.48	5.81	5.25	FBL09A12L1A	CR220-ND	.68
24	14-27.6	92 x 25.5	6.60	54.70	4.4	47.0	295	P11025-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24U1A	CR220-ND	.68
24	14-27.6	92 x 25.5	6.60	54.70	4.4	47.0	295	P11092-ND	9.00	7.74	6.66	5.98	5.40	FBL09A24U1BX	CR220-ND	.68
24	14-27.6	92 x 25.5	3.48	45.89	3.3	40.0	295	P11024-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24H1A	CR220-ND	.68
24	14-27.6	92 x 25.5	2.40	35.30	2.3	36.0	295	P11023-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24M1A	CR220-ND	.68
24	14-27.6	92 x 25.5	1.80	31.77	1.9	33.0	295	P11022-ND	8.75	7.53	6.48	5.81	5.25	FBL09A24L1A	CR220-ND	.68
12	7-13.8	120 x 38	7.80	86.49	5.5	48.0	280	P10905-ND	29.38	25.27	21.74	19.51	17.63	FBL12G12U1A	CR210-ND	1.79
12	7-13.8	120 x 38	7.20	81.19	5.2	46.0	280	P10904-ND	28.25	24.30	20.91	18.76	16.95	FBL12G12H1A	CR210-ND	1.79
12	7-13.8	120 x 38	5.40	67.07	3.6	41.0	280	P10903-ND	28.25	24.30	20.91	18.76	16.95	FBL12G12M1A	CR210-ND	1.79
12	7-13.8	120 x 38	2.88	52.95	2.3	35.0	280	P10902-ND	28.25	24.30	20.91	18.76	16.95	FBL12G12L1A	CR210-ND	1.79
24	14-27.6	120 x 38	7.80	86.49	5.5	48.0	280	P11029-ND	29.38	25.27	21.74	19.51	17.63	FBL12G24U1A	CR210-ND	1.79
24	14-27.6	120 x 38	7.20	81.19	5.2	46.0	280	P11028-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24H1A	CR210-ND	1.79
24	14-27.6	120 x 38	5.40	67.07	3.6	41.0	280	P11027-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24M1A	CR210-ND	1.79
24	14-27.6	120 x 38	2.88	52.95	2.3	35.0	280	P11026-ND	28.25	24.30	20.91	18.76	16.95	FBL12G24L1A	CR210-ND	1.79

Manufacturer Part Number Ending Code: BS - Locked Rotor Alarm Sensor **BX** - 2 PPR Speed Sensor (TAC Output)

FCC-000-ND	Lead Wire Assembly, 3 Conductors	**$1.72/1; $38.70/25**
P11031-ND	Lead Wire Assembly, 2 Conductors	**$.63/1; $13.44/25**

Please Note: Custom Fan Cable Assemblies available upon request.

DC Fans UDQ Series

SPECIFICATIONS:
- **Operating Temperature:** 0°C ~ 70°C
- **Operating Humidity:** <85 Rh%

Note: Not for New Design

Fig. 1 – Flat Unidirectional (Cooler Chip)

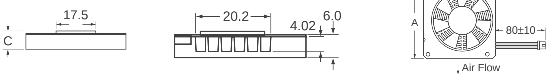

Fig. 2 – Vertical (Axial)

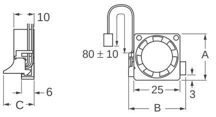

	Dimensions (mm)			Operating Voltage (VDC)		Current @ 60°C	Speed @ 60°C	Max Air Flow @ 60°C		Max Air Pressure @ 60°C		Life Expectancy	Noise @ 1M	Digi-Key	Price Each					Panasonic
Fig.	A	B	C	Nom.	Range	(mA)	(r/min)	(m3/min.)	(CFM)	(Pa)	(in H2O)	(Hrs.@ 60°C)	dBA	Part No.	1	5	10	50	100	Part No.
1	44.5	44.5	7.5	5	4.5 ~ 6	150	4,800	0.022	0.78	24.5	0.10	30,000	26	P9770-ND*	28.13	24.19	18.75	17.31	16.08	UDQFC4E07-PI
2	25	25	10	5	3.1 ~ 5.5	40	7,800	0.040	1.41	24	0.10	30,000	17	P11093-ND	13.75	11.83	10.18	9.13	8.25	UDQFBFM01CP1
	30	30	10	5	3.1 ~ 5.5	90	8,500	0.10	3.60	35	0.14	30,000	26	P11085-ND‡	20.00	17.20	14.80	13.28	12.00	UDQFHBB01-P1
	30	30	10	5	3.1 ~ 5.5	50	6,000	0.065	2.29	17	0.07	30,000	18	P11094-ND	13.75	11.83	10.18	9.13	8.25	UDQFHFM01P1

* Thermal Sensor 10K@ 25°C ‡ Ball Bearings

Panasonic® NMB-MAT DC Axial Fans

NMB-MAT combines the Panasonic Panaflo and NMB fan product lines.
NMB-MAT offers a comprehensive line of cooling products, including AC and DC axial fans and blowers ranging from 25mm to 172mm in diameter. NMB-MAT leverages its expertise to develop and produce superior cooling fans and blowers.

Specifications: • Operating Temperature: -10°C ~ 60/70°C by model (65%RH)
Features: • Aerodynamic blade and venturi design • They are ideal when cooling a specific area that is surrounded by numerous components with minimum ventilation available.

Please Note: Custom Fan Cable Assemblies available upon request.

Rib Mount Type:

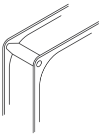

Flange Mount Type:

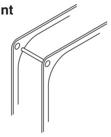

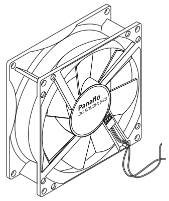

Dim. (mm) Sq.xThk.	Operating Voltage (VDC) Nom.	Range	Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (mm H_2O)	Max. Noise (dB-A)	Lead Length (mm)	Bearing	Sensors	Mount Type	Digi-Key Part No.	Price Each 1	5	10	Panasonic Part No.	Finger Guards	Price Each
25x10	5	4.5-5.5	0.625	2.0	.20	25.0	200	Ball	—	Rib	P12806-ND	12.75	10.97	9.44	1004KL01WB50B00	CR181-ND	.63
	12	8-13.8	0.72	2.0	.20	25.0	200	Ball	—	Rib	P12807-ND	12.75	10.97	9.44	1004KL04WB50B00	CR181-ND	.63
	12	8-13.8	0.72	2.0	.20	25.0	200	Ball	Lock Rotor	Rib	P13383-ND ***NEW!***	13.38	11.51	9.90	1004KL04WB59B00	CR181-ND	.63
30x10	5	4.5-5.5	0.90	3.8	.216	27.0	200	Ball	—	Rib	P12808-ND	13.75	11.83	10.18	1204KL01WB50B00	CR181-ND	.63
	5	4.5-5.5	0.90	3.8	.216	27.0	200	Ball	Lock Rotor	Rib	P13384-ND ***NEW!***	14.38	12.37	10.64	1204KL01WB59B00	CR181-ND	.63
	12	6-13.8	0.96	3.8	.216	27.0	200	Ball	—	Rib	P12809-ND	13.75	11.83	10.18	1204KL04WB50B00	CR181-ND	.63
	12	6-13.8	0.96	3.8	.216	27.0	200	Ball	Lock Rotor	Rib	P13385-ND ***NEW!***	14.38	12.37	10.64	1204KL04WB59B00	CR181-ND	.63
35x10	5	4.5-5.5	1.05	5.6	.16	27.0	200	Ball	—	Rib	P12810-ND	13.00	11.18	9.62	1404KL01WB50B00	CR378-ND	.63
	5	4.5-5.5	1.05	5.6	.16	27.0	200	Ball	Tac	Rib	P13386-ND ***NEW!***	13.88	11.94	10.27	1404KL01WB59B50	CR378-ND	.63
	12	8-13.8	0.96	5.6	.16	27.0	200	Ball	—	Rib	P12811-ND	13.00	11.18	9.62	1404KL04WB50B00	CR378-ND	.63
	12	8-13.8	0.96	5.6	.16	27.0	200	Ball	Lock Rotor	Rib	P13387-ND ***NEW!***	13.88	11.94	10.27	1404KL04WB59B00	CR378-ND	.63
40x10	5	4.5-5.5	0.775	6.0	.184	29.0	200	Ball	—	Rib	P12812-ND	11.25	9.68	8.33	1604KL01WB50B00	CR230-ND	.48
	5	4.5-5.5	0.775	6.0	.184	29.0	200	Ball	Lock Rotor	Rib	P13388-ND ***NEW!***	11.88	10.22	8.79	1604KL01WB59B00	CR230-ND	.48
	12	10.2-13.8	0.876	5.3	.136	25.0	200	Ball	—	Rib	P12813-ND	11.25	9.68	8.33	1604KL04WB40B00	CR230-ND	.48
	12	10.2-13.8	0.876	6.0	.184	29.0	200	Ball	Lock Rotor	Rib	P13389-ND ***NEW!***	11.88	10.22	8.79	1604KL04WB59B00	CR230-ND	.48
40x15	5	4.5-5.5	0.600	6.0	3.70	28.0	200	Ball	—	Rib	P12814-ND	11.50	9.89	8.51	1606KL01WB30L00	CR230-ND	.48
	5	4.5-5.5	1.20	8.12	6.40	34.0	200	Ball	—	Rib	P12815-ND	11.50	9.89	8.51	1606KL01WB50L00	CR230-ND	.48
	5	4.5-5.5	1.20	8.1	.250	34.0	200	Ball	Lock Rotor	Rib	P13390-ND ***NEW!***	12.13	10.43	8.98	1606KL01WB59L00	CR230-ND	.48
	12	10.2-13.8	0.804	6.0	3.70	28.0	200	Ball	—	Rib	P12816-ND	11.50	9.89	8.51	1606KL04WB30L00	CR230-ND	.48
	12	10.2-13.8	1.02	8.12	6.40	34.0	200	Ball	—	Rib	P12817-ND	11.50	9.89	8.51	1606KL04WB50L00	CR230-ND	.48
	12	10.2-13.8	1.02	8.1	.250	34.0	200	Ball	Lock Rotor	Rib	P13391-ND ***NEW!***	12.13	10.43	8.98	1606KL04WB59L00	CR230-ND	.48
	24	22.0-25.2	1.488	8.1	.250	34.0	200	Ball	Lock Rotor	Rib	P13392-ND ***NEW!***	12.13	10.43	8.98	1606KL05WB59L00	CR230-ND	.48
40x20	5	4.5-5.5	0.35	4.9	.08	20.0	200	Ball	—	Rib	P12818-ND	11.63	10.00	8.61	1608KL01WB10L00	CR230-ND	.48
	5	4.5-5.5	1.90	9.5	.28	33.0	200	Ball	—	Rib	P12819-ND	11.63	10.00	8.61	1608KL01WB50L00	CR230-ND	.48
	5	4.5-5.5	1.90	9.5	.28	33.0	200	Ball	Lock Rotor	Rib	P13393-ND ***NEW!***	12.25	10.54	9.07	1608KL01WB59L00	CR230-ND	.48
	5	4.5-6.0	0.60	3.9	2.50	24.0	300	Ball	—	Rib	P9700-ND	15.00	12.90	11.10	FBK04F05L	CR230-ND	.48
	5	4.5-6.0	1.40	6.7	6.60	33.0	300	Ball	—	Rib	P9701-ND	15.00	12.90	11.10	FBK04F05H	CR230-ND	.48
	12	7.0-13.8	1.80	6.7	6.60	32.0	300	Ball	Lock Rotor	Rib	P11081-ND	15.25	13.12	11.29	FBK04F12HS	CR230-ND	.48
	12	7.0-13.8	2.04	9.2	12.00	42.0	300	Ball	—	Rib	P9723-ND	15.00	12.90	11.10	FBK04F12U	CR230-ND	.48
	12	7.0-13.8	2.04	9.2	12.00	42.0	300	Ball	Lock Rotor	Rib	P9994-ND	14.88	12.80	11.01	FBK04F12US	CR230-ND	.48
	12	7.0-13.8	1.80	6.7	6.60	32.0	300	Ball	—	Rib	P9703-ND	15.00	12.90	11.10	FBK04F12H	CR230-ND	.48
	12	7.0-13.8	0.90	3.9	2.50	23.0	300	Ball	—	Rib	P9702-ND	15.00	12.90	11.10	FBK04F12L	CR230-ND	.48
	12	10.2-13.8	0.48	4.9	.08	20.0	200	Ball	—	Rib	P12820-ND	11.63	10.00	8.61	1608KL04WB10L00	CR230-ND	.48
	12	10.2-13.8	1.32	9.5	.28	33.0	200	Ball	—	Rib	P12821-ND	11.63	10.00	8.61	1608KL04WB50L00	CR230-ND	.48
	12	10.2-13.8	1.32	9.5	.28	33.0	200	Ball	Lock Rotor	Rib	P13394-ND ***NEW!***	12.25	10.54	9.07	1608KL04WB59L00	CR230-ND	.48
	24	14.0-27.6	2.40	9.2	12.00	42.0	300	Ball	—	Rib	P9762-ND	15.00	12.90	11.10	FBK04F24U	CR230-ND	.48
	24	14.0-27.6	2.21	6.7	6.60	33.0	300	Ball	—	Rib	P9704-ND	15.00	12.90	11.10	FBK04F24H	CR230-ND	.48
	24	20.0-25.2	0.96	4.9	.08	20.0	200	Ball	—	Rib	P12822-ND	11.63	10.00	8.61	1608KL05WB10L00	CR230-ND	.48
	24	20.0-25.2	1.92	9.5	.28	33.0	200	Ball	—	Rib	P12823-ND	11.63	10.00	8.61	1608KL05WB50L00	CR230-ND	.48
	24	20.0-25.2	1.92	9.5	.28	33.0	200	Ball	Lock Rotor	Rib	P13395-ND ***NEW!***	12.25	10.54	9.07	1608KL05WB59L00	CR230-ND	.48
50x10	5	4.5-6.0	1.50	10.2	.14	34.0	200	Ball	—	Rib	P12824-ND	11.00	9.46	8.14	2004KL01WB50B00	CR379-ND	1.03
	5	4.5-6.0	1.50	10.2	.14	34.0	200	Ball	Lock Rotor	Rib	P13396-ND ***NEW!***	11.63	10.00	8.61	2004KL01WB59B00	CR379-ND	1.03
	12	10.2-13.8	1.20	10.2	.14	34.0	200	Ball	—	Rib	P12825-ND	11.00	9.46	8.14	2004KL04WB50B00	CR379-ND	1.03
	12	10.2-13.8	1.20	10.2	.14	34.0	200	Ball	Lock Rotor	Rib	P13397-ND ***NEW!***	11.63	10.00	8.61	2004KL04WB59B00	CR379-ND	1.03
52x15	12	10.2-13.0	1.56	14.1	.14	30.0	200	Ball	—	Rib	P12826-ND	11.00	9.46	8.14	2106KL04WB50L00	CR388-ND	.69
	12	10.2-13.0	1.56	14.1	.14	30.0	200	Ball	Lock Rotor	Rib	P13398-ND ***NEW!***	11.75	10.11	8.70	2106KL04WB59L00	CR388-ND	.69
60x15	12	7.0-13.8	0.48	6.7	.03	19.0	200	Ball	—	Rib	P12827-ND	11.13	9.57	8.24	2406KL04WB10L00	CR221-ND	.57
	12	6.0-13.8	1.92	18.3	.20	34.0	200	Ball	—	Rib	P12828-ND	11.13	9.57	8.24	2406KL04WB50L00	CR221-ND	.57
	12	6.0-13.8	1.92	18.3	.20	34.0	200	Ball	Lock Rotor	Rib	P13399-ND ***NEW!***	11.75	10.11	8.70	2406KL04WB59L00	CR221-ND	.57
	12	7-13.8	1.74	16.6	4.75	32.0	325	Hydrowave	—	Rib	P9725-ND	10.00	8.60	7.40	FBA06T12H	CR221-ND	.57
	12	7-13.8	1.74	16.6	4.75	32.0	325	Hydrowave	Lock Rotor	Rib	P9996-ND	10.00	8.60	7.40	FBA06T12HS	CR221-ND	.57
	12	7-13.8	1.06	12.0	2.80	24.0	325	Hydrowave	—	Rib	P9724-ND	10.00	8.60	7.40	FBA06T12L	CR221-ND	.57
	24	10.0-27.6	2.40	18.3	.20	34.0	200	Ball	—	Rib	P12829-ND	11.13	9.57	8.24	2406KL05WB50L00	CR221-ND	.57
	24	14-27.6	1.99	16.6	4.75	32.0	325	Hydrowave	—	Rib	P9727-ND	10.00	8.60	7.40	FBA06T24H	CR221-ND	.57
	24	14-27.6	1.34	12.0	2.80	24.0	325	Hydrowave	—	Rib	P9726-ND	10.00	8.60	7.40	FBA06T24L	CR221-ND	.57
60x20	12	6.0-13.8	0.60	10.9	.07	22.5	300	Ball	—	Rib	P12830-ND	11.25	9.68	8.33	2408NL04WB10L00	CR221-ND	.57
	12	6.0-13.8	1.32	17.6	.16	31.5	300	Ball	—	Rib	P12831-ND	11.25	9.68	8.33	2408NL04WB50L00	CR221-ND	.57
	12	6.0-13.8	1.32	17.6	.16	31.5	300	Ball	Lock Rotor	Rib	P13400-ND ***NEW!***	11.88	10.22	8.79	2408NL04WB59L00	CR221-ND	.57
	12	6.0-13.8	1.32	17.6	.16	31.5	300	Ball	Lock Rotor	Flange	P13402-ND ***NEW!***	11.88	10.22	8.79	2408NL04WB59P00	CR221-ND	.57
	24	15.0-27.6	1.20	15.9	.13	29.0	300	Ball	—	Rib	P12832-ND	11.25	9.68	8.33	2408NL05WB40L00	CR221-ND	.57
	24	15.0-27.6	1.32	17.6	.16	31.5	300	Ball	Lock Rotor	Rib	P13401-ND ***NEW!***	11.88	10.22	8.79	2408NL05WB59L00	CR221-ND	.57
60x25	12	6.0-13.8	0.90	13.7	.08	23.0	300	Ball	—	Rib	P12833-ND	10.88	9.36	8.05	2410ML04WB10B00	CR221-ND	.57
	12	6.0-13.8	2.04	21.5	.20	33.5	300	Ball	—	Rib	P12834-ND	10.88	9.36	8.05	2410ML04WB40B00	CR221-ND	.57
	12	6.0-13.8	1.80	24.0	.20	33.5	300	Ball	Lock Rotor	Rib	P13403-ND ***NEW!***	8.38	7.21	6.20	2410RL04WB59C00	CR221-ND	.57
	12	6.0-13.8	3.24	28.5	.27	38.0	300	Ball	Lock Rotor	Rib	P13404-ND ***NEW!***	8.38	7.21	6.20	2410RL04WB79C00	CR221-ND	.57
	12	6.0-13.2	6.20	37.0	.57	46.0	300	Ball	Tac	Flange	P13406-ND ***NEW!***	11.50	9.89	8.51	2410ML04WB89E50	CR221-ND	.57
	24	10.0-27.6	2.40	23.3	.25	36.5	300	Ball	—	Rib	P12835-ND	10.88	9.36	8.05	2410ML05WB50B00	CR221-ND	.57
	24	10.0-27.6	4.80	28.5	.27	38.0	300	Ball	Lock Rotor	Rib	P13405-ND ***NEW!***	8.38	7.21	6.20	2410RL05WB79C00	CR221-ND	.57
	24	10.0-26.4	6.24	37.0	12.24	50.0	300	Ball	Tac	Flange	P13407-ND ***NEW!***	11.50	9.89	8.51	2410ML05WB89E50	CR221-ND	.57

(Continued)

Dim. (mm) Sq.xThk.	Operating Voltage (VDC)		Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (mm H_2O)	Max. Noise (dB-A)	Lead Length (mm)	Bearing	Sensors	Mount Type	Digi-Key Part No.	Price Each			Panasonic Part No.	Finger Guards	Price Each
	Nom.	Range										1	5	10			
60x25.5	12	7-13.8	2.52	20.5	6.0	37.0	315	Hydrowave	—	Flange	P9758-ND	8.25	7.10	6.11	FBA06A12U1A	CR221-ND	.57
	12	7-13.8	2.52	20.5	6.0	37.0	315	Hydrowave	Lock Rotor	Flange	P9995-ND	8.25	7.10	6.11	FBA06A12U1BS	CR221-ND	.57
	12	7-13.8	2.04	19.1	5.20	32.0	315	Hydrowave	—	Flange	P9729-ND	8.25	7.10	6.11	FBA06A12H1A	CR221-ND	.57
	12	7-13.8	2.04	19.1	5.20	32.0	315	Hydrowave	Tac	Flange	P11033-ND	8.75	7.53	6.48	FBA06A12H1BX	CR221-ND	.57
	12	7-13.8	1.56	16.6	3.95	28.0	315	Hydrowave	—	Flange	P9767-ND	8.25	7.10	6.11	FBA06A12M1A	CR221-ND	.57
	12	7-13.8	1.32	14.1	3.10	24.0	315	Hydrowave	—	Flange	P9728-ND	8.25	7.10	6.11	FBA06A12L1A	CR221-ND	.57
	12	7-13.8	1.32	14.1	3.10	24.0	315	Hydrowave	Tac	Flange	P11034-ND	8.75	7.53	6.48	FBA06A12L1BX	CR221-ND	.57
	24	14-27.6	2.52	19.1	5.20	32.0	315	Hydrowave	—	Flange	P9731-ND	8.25	7.10	6.11	FBA06A24H1A	CR221-ND	.57
	24	14-27.6	2.16	16.6	3.95	28.0	315	Hydrowave	—	Flange	P9768-ND	8.25	7.10	6.11	FBA06A24M1A	CR221-ND	.57
	24	14-27.6	1.68	14.1	3.10	24.0	315	Hydrowave	—	Flange	P9730-ND	8.25	7.10	6.11	FBA06A24L1A	CR221-ND	.57
80x15	12	7-13.8	2.40	33.5	3.20	34.0	325	Hydrowave	—	Rib	P9733-ND	10.00	8.60	7.40	FBA08T12H	CR180-ND	.85
	12	7-13.8	2.40	33.5	3.20	34.0	325	Hydrowave	Tac	Rib	P11095-ND	10.00	8.60	7.40	FBA08T12HS	CR180-ND	.85
	12	7-13.8	0.95	21.9	1.55	23.0	325	Hydrowave	—	Rib	P9732-ND	10.00	8.60	7.40	FBA08T12L	CR180-ND	.85
	24	14-27.6	2.64	33.5	3.20	34.0	325	Hydrowave	—	Rib	P9735-ND	10.00	8.60	7.40	FBA08T24H	CR180-ND	.85
	24	14-27.6	1.13	21.9	1.55	23.0	325	Hydrowave	—	Rib	P9734-ND	10.00	8.60	7.40	FBA08T24L	CR180-ND	.85
80x20	12	6.0-13.8	1.08	26.5	.08	26.0	300	Ball	—	Flange	P12836-ND	12.38	10.65	9.16	3108NL04WB10P00	CR180-ND	.85
	12	6.0-13.8	3.36	44.0	.20	42.0	300	Ball	—	Flange	P12837-ND	12.38	10.65	9.16	3108NL04WB50P00	CR180-ND	.85
	12	6.0-13.8	3.36	44.0	.20	42.0	300	Ball	Lock Rotor	Rib	P13408-ND ***NEW!***	13.00	11.18	9.62	3108NL04WB59L00	CR180-ND	.85
	24	15.0-27.6	1.30	26.5	.08	26.0	300	Ball	—	Flange	P12838-ND	12.38	10.65	9.16	3108NL05WB10P00	CR180-ND	.85
	24	15.0-27.6	3.60	44.0	.20	42.0	300	Ball	—	Flange	P12839-ND	12.38	10.65	9.16	3108NL05WB50P00	CR180-ND	.85
	24	15.0-27.6	3.60	44.0	.20	42.0	300	Ball	Lock Rotor	Flange	P13409-ND ***NEW!***	13.00	11.18	9.62	3108NL05WB59P00	CR180-ND	.85
80x25	12	6.0-13.8	1.20	24.7	.07	22.0	300	Ball	—	Flange	P12840-ND	11.13	9.57	8.24	3110KL04WB10P00	CR180-ND	.85
	12	6.0-13.8	2.04	31.8	.10	28.0	300	Ball	—	Flange	P12841-ND	11.13	9.57	8.24	3110KL04WB30P00	CR180-ND	.85
	12	6.0-13.8	2.76	38.8	.15	34.0	300	Ball	—	Flange	P12842-ND	11.13	9.57	8.24	3110KL04WB50P00	CR180-ND	.85
	12	6.0-13.8	3.12	40.2	.16	35.0	300	Ball	Lock Rotor	Rib	P13410-ND ***NEW!***	11.75	10.11	8.70	3110KL04WB69L00	CR180-ND	.85
	24	10.0-27.6	1.44	24.7	.07	22.0	300	Ball	—	Flange	P12843-ND	11.13	9.57	8.24	3110KL05WB10P00	CR180-ND	.85
	24	10.0-27.6	2.88	38.8	.15	34.0	300	Ball	—	Flange	P12844-ND	11.13	9.57	8.24	3110KL05WB50P00	CR180-ND	.85
	24	10.0-26.4	3.36	40.2	.16	35.0	300	Ball	Lock Rotor	Rib	P13411-ND ***NEW!***	11.75	10.11	8.70	3110KL05WB69L00	CR180-ND	.85
80x25.5	12	7-13.8	3.24	46.9	4.80	38.2	300	Hydrowave	—	Flange	P9759-ND	8.25	7.10	6.11	FBA08A12U1A	CR180-ND	.85
	12	7-13.8	3.24	46.9	4.80	38.2	300	Hydrowave	Lock Rotor	Flange	P9997-ND	8.25	7.10	6.11	FBA08A12U1BS	CR180-ND	.85
	12	7-13.8	2.08	39.6	3.78	32.0	300	Hydrowave	—	Flange	P9738-ND	8.25	7.10	6.11	FBA08A12H1A	CR180-ND	.85
	12	7-13.8	2.08	39.6	3.78	32.0	300	Hydrowave	—	Rib	P11035-ND	8.25	7.10	6.11	FBA08A12H1AZ	CR180-ND	.85
	12	7-13.8	2.08	39.6	3.78	32.0	300	Hydrowave	Lock Rotor	Flange	P11036-ND	8.50	7.31	6.29	FBA08A12H1BS	CR180-ND	.85
	12	7-13.8	1.49	32.1	2.51	28.0	300	Hydrowave	—	Flange	P9737-ND	8.25	7.10	6.11	FBA08A12M1A	CR180-ND	.85
	12	7-13.8	1.49	32.1	2.51	28.0	300	Hydrowave	Lock Rotor	Flange	P11038-ND	8.50	7.31	6.29	FBA08A12M1BS	CR180-ND	.85
	12	7-13.8	1.49	32.1	2.51	28.0	300	Hydrowave	Tac	Flange	P11039-ND	8.75	7.53	6.48	FBA08A12M1BX	CR180-ND	.85
	12	7-13.8	0.82	24.0	1.57	21.0	300	Hydrowave	—	Flange	P9736-ND	8.25	7.10	6.11	FBA08A12L1A	CR180-ND	.85
	12	7-13.8	0.82	24.0	1.57	21.0	300	Hydrowave	—	Rib	P11037-ND	8.25	7.10	6.11	FBA08A12L1AZ	CR180-ND	.85
	24	14-27.6	2.52	39.6	3.78	32.0	300	Hydrowave	—	Flange	P9741-ND	8.25	7.10	6.11	FBA08A24H1A	CR180-ND	.85
	24	14-27.6	2.52	39.6	3.78	32.0	300	Hydrowave	Tac	Flange	P11097-ND	11.50	10.07	8.63	FBA08A24H1CX	CR180-ND	.85
	24	14-27.6	1.70	32.1	2.51	28.0	300	Hydrowave	—	Flange	P9740-ND	8.25	7.10	6.11	FBA08A24M1A	CR180-ND	.85
	24	14-27.6	1.30	24.0	1.57	21.0	300	Hydrowave	—	Flange	P9739-ND	8.25	7.10	6.11	FBA08A24L1A	CR180-ND	.85
80x32	12	6.0-13.8	3.00	46.9	.22	37.0	300	Ball	—	Flange	P12845-ND	12.38	10.65	9.16	3112KL04WB40E00	CR180-ND	.85
	12	6.0-12.6	5.40	58.6	.32	44.0	300	Ball	Lock Rotor	Flange	P13412-ND ***NEW!***	13.00	11.18	9.62	3112KL04WB69E00	CR180-ND	.85
	24	10.0-27.6	3.36	46.9	.22	37.0	300	Ball	—	Flange	P12846-ND	12.38	10.65	9.16	3112KL05WB40E00	CR180-ND	.85
	24	10.0-25.2	5.04	58.6	.32	44.0	300	Ball	Lock Rotor	Flange	P13413-ND ***NEW!***	13.00	11.18	9.62	3112KL05WB69E00	CR180-ND	.85
92x25	12	6.0-13.8	0.876	26.5	.06	25.0	300	Ball	—	Flange	P13415-ND ***NEW!***	14.38	12.37	10.64	3610KL04WB10P00	CR220-ND	.68
	12	6.0-13.8	2.64	47.6	.15	37.5	300	Ball	—	Flange	P12847-ND	14.25	12.26	10.55	3610KL04WB40D00	CR220-ND	.68
	12	6.0-13.8	2.64	47.6	.15	37.5	300	Ball	Lock Rotor	Rib	P13414-ND ***NEW!***	14.88	12.80	11.01	3610KL04WB49G00	CR220-ND	.68
	24	10.0-25.0	3.84	54.7	.19	41.0	300	Ball	—	Rib	P12848-ND	14.25	12.26	10.55	3610KL05WB50D00	CR220-ND	.68
92x25.5	12	7-13.8	5.16	68.8	5.0	43.0	295	Hydrowave	—	Flange	P9760-ND	8.25	7.10	6.11	FBA09A12U1A	CR220-ND	.68
	12	7-13.8	5.16	68.8	5.0	43.0	295	Hydrowave	Lock Rotor	Rib	P11044-ND	8.50	7.31	6.29	FBA09A12U1BO	CR220-ND	.68
	12	7-13.8	5.16	68.8	5.0	43.0	295	Hydrowave	Tac	Flange	P9975-ND	8.50	7.31	6.29	FBA09A12U1BX	CR220-ND	.68
	12	7-13.8	2.70	56.8	3.98	35.0	295	Hydrowave	—	Flange	P9744-ND	8.25	7.10	6.11	FBA09A12H1A	CR220-ND	.68
	12	7-13.8	2.70	56.8	3.98	35.0	295	Hydrowave	—	Flange	P11040-ND	8.25	7.10	6.11	FBA09A12H1AZ	CR220-ND	.68
	12	7-13.8	2.70	56.8	3.98	35.0	295	Hydrowave	Lock Rotor	Rib	P11041-ND	8.50	7.31	6.29	FBA09A12H1BO	CR220-ND	.68
	12	7-13.8	2.70	56.8	.16	35.0	295	Hydrowave	Tac	Flange	P13481-ND ***NEW!***	4.80	4.13	3.56	FBA09A12H1BQ	CR220-ND	.68
	12	7-13.8	2.70	56.8	3.98	35.0	295	Hydrowave	Tac	Flange	P11042-ND	8.75	7.53	6.48	FBA09A12H1BX	CR220-ND	.68
	12	7-13.8	1.80	48.0	3.00	30.0	295	Hydrowave	—	Flange	P9743-ND	8.25	7.10	6.11	FBA09A12M1A	CR220-ND	.68
	12	7-13.8	1.32	42.7	2.30	27.0	295	Hydrowave	—	Flange	P9742-ND	8.25	7.10	6.11	FBA09A12L1A	CR220-ND	.68
	12	7-13.8	1.32	42.7	.10	27.0	295	Hydrowave	Lock Rotor	Flange	P13482-ND ***NEW!***	4.80	4.13	3.56	FBA09A12L1BS	CR220-ND	.68
	12	7-13.8	1.32	42.7	2.30	27.0	295	Hydrowave	Tac	Flange	P11043-ND	8.75	7.53	6.48	FBA09A12L1BX	CR220-ND	.68
	24	12-27.6	7.2	68.8	4.6	47.0	295	Hydrowave	Tac	Flange	P11096-ND	8.50	7.31	6.29	FBA09A24U1BX	CR220-ND	.68
	24	14-27.6	3.36	56.8	3.98	35.0	295	Hydrowave	—	Flange	P9747-ND	8.25	7.10	6.11	FBA09A24H1A	CR220-ND	.68
	24	14-27.6	3.36	56.8	3.98	35.0	295	Hydrowave	—	Rib	P11045-ND	8.25	7.10	6.11	FBA09A24H1AZ	CR220-ND	.68
	24	14-27.6	3.36	56.8	3.98	35.0	295	Hydrowave	Lock Rotor	Flange	P11046-ND	8.50	7.31	6.29	FBA09A24H1BS	CR220-ND	.68
	24	14-27.6	3.36	56.8	3.98	35.0	295	Hydrowave	Tac	Flange	P11047-ND	8.75	7.53	6.48	FBA09A24H1BX	CR220-ND	.68
	24	14-27.6	2.64	48.0	3.00	30.0	295	Hydrowave	—	Flange	P9746-ND	8.25	7.10	6.11	FBA09A24M1A	CR220-ND	.68
	24	14-27.6	1.92	42.7	2.30	27.0	295	Hydrowave	—	Flange	P9745-ND	8.25	7.10	6.11	FBA09A24L1A	CR220-ND	.68
92x38	12	7.0-13.2	4.08	68.5	.29	44.0	300	Ball	—	Flange	P12849-ND	20.38	17.53	15.08	3615KL04WB40P00	CR220-ND	.68
	12	7.0-12.6	5.52	76.5	.36	46.5	300	Ball	Lock Rotor	Flange	P13416-ND ***NEW!***	21.00	18.06	15.54	3615KL04WB59P00	CR220-ND	.68
	24	12.0-25.2	5.76	76.2	.36	46.5	300	Ball	—	Flange	P12850-ND	20.38	17.53	15.08	3615KL05WB50P00	CR220-ND	.68
	24	12.0-25.2	5.76	76.2	.36	46.5	300	Ball	Lock Rotor	Flange	P13417-ND ***NEW!***	21.00	18.06	15.54	3615KL05WB59P00	CR220-ND	.68
119x25	12	6.0-13.8	1.44	63.5	.07	27.0	300	Ball	—	Rib	P13418-ND ***NEW!***	17.50	15.05	12.95	4710KL04WB10L00	CR210-ND	1.79
	12	6.0-13.0	6.60	114.7	.20	41.5	300	Ball	Lock Rotor	Flange	P13420-ND ***NEW!***	18.13	15.59	13.42	4710KL04WB59E00	CR210-ND	1.79
	12	6.0-13.0	6.60	114.7	.20	41.5	300	Ball	—	Flange	P13448-ND ***NEW!***	17.50	15.05	12.95	4710KL04WB50E00	CR210-ND	1.79
	24	10.0-27.6	1.92	63.5	.07	27.0	300	Ball	—	Flange	P13449-ND ***NEW!***	17.50	15.05	12.95	4710KL05WB10E00	CR210-ND	1.79
	24	10.0-26.0	6.96	114.7	.20	41.5	300	Ball	—	Flange	P13447-ND ***NEW!***	17.50	15.05	12.95	4710KL05WB50E00	CR210-ND	1.79
	24	10.0-26.0	6.96	114.7	.20	41.5	300	Ball	Lock Rotor	Flange	P13419-ND ***NEW!***	18.13	15.59	13.42	4710KL05WB59E00	CR210-ND	1.79

(Continued)

DC Axial Fans *(Cont.)*

Dim. (mm) Sq.xThk.	Operating Voltage (VDC)		Input Power (W)	Max. Air Flow (CFM)	Max. Air Pressure (mm H_2O)	Max. Noise (dB-A)	Lead Length (mm)	Bearing	Sensors	Mount Type	Digi-Key Part No.	Price Each			Panasonic Part No.	Finger Guards	Price Each
	Nom.	Range										1	5	10			
119x32	12	6.0-13.8	1.92	56.1	.09	29.0	300	Ball	—	Flange	P12854-ND	21.38	18.39	15.82	4712KL04WB10P00	CR210-ND	1.79
	12	6.0-13.8	8.28	112.0	.33	47.0	300	Ball	—	Flange	P12855-ND	21.38	18.39	15.82	4712KL04WB50P00	CR210-ND	1.79
	12	6.0-13.8	8.28	3.40	93	47.0	300	Ball	Lock Rotor	Flange	P13421-ND ***NEW!***	22.00	18.92	16.28	4712KL04WB59P00	CR210-ND	1.79
	24	12.0-27.6	8.16	112.0	.33	47.0	300	Ball	Lock Rotor	Flange	P13422-ND ***NEW!***	22.00	18.92	16.28	4712KL05WB49P00	CR210-ND	1.79
	48	28.0-55.2	10.08	112.0	.33	47.0	300	Ball	Lock Rotor	Flange	P13423-ND ***NEW!***	22.00	18.92	16.28	4712KL07WB49P00	CR210-ND	1.79
119x38	12	6.0-13.8	6.60	108.0	.27	42.5	300	Ball	—	Flange	P12857-ND	19.00	16.34	14.06	4715KL04WB30P00	CR210-ND	1.79
	12	6.0-13.8	8.40	118.0	.33	46.5	300	Ball	—	Flange	P12858-ND	19.00	16.34	14.06	4715KL04WB40P00	CR210-ND	1.79
	12	8.0-13.2	17.50	162.0	.69	56.5	300	Ball	—	Flange	P12862-ND	57.50	49.45	42.55	4715SL04WB50D00	CR210-ND	1.79
	12	9.5-12.6	12.0	129.9	.44	50.0	300	Ball	Lock Rotor	Flange	P13424-ND ***NEW!***	19.63	16.88	14.53	4715KL04WB59P00	CR210-ND	1.79
	12	8.0-12.9	23.0	181.0	.85	59.5	300	Ball	Lock Rotor	Flange	P13427-ND ***NEW!***	58.13	49.99	43.02	4715SL04WB69D00	CR210-ND	1.79
	12	8.0-12.6	38.4	201.0	1.04	62.3	300	Ball	Lock Rotor	Flange	P13428-ND ***NEW!***	58.13	49.99	43.02	4715SL04WB79D00	CR210-ND	1.79
	24	10.0-27.6	7.44	108.0	.27	42.5	300	Ball	—	Flange	P12859-ND	19.00	16.34	14.06	4715KL05WB30P00	CR210-ND	1.79
	24	10.0-27.6	8.40	118.0	.33	46.5	300	Ball	—	Flange	P12860-ND	19.00	16.34	14.06	4715KL05WB40P00	CR210-ND	1.79
	24	15.0-27.6	17.80	162.0	.69	56.5	300	Ball	—	Flange	P12863-ND	57.50	49.45	42.55	4715SL05WB50D00	CR210-ND	1.79
	24	18.0-25.0	12.0	130.0	.44	50.0	300	Ball	Lock Rotor	Flange	P13425-ND ***NEW!***	19.63	16.88	14.53	4715KL05WB59P00	CR210-ND	1.79
	24	15.0-25.2	36.0	201.0	1.04	62.3	300	Ball	Lock Rotor	Flange	P13429-ND ***NEW!***	58.13	49.99	43.02	4715SL05WB79D00	CR210-ND	1.79
	48	25.0-55.2	7.68	108.0	.27	42.5	300	Ball	—	Flange	P12861-ND	19.00	16.34	14.06	4715KL07WB30P00	CR210-ND	1.79
	48	25.0-55.2	7.68	108.0	.27	42.5	300	Ball	Lock Rotor	Flange	P13426-ND ***NEW!***	19.63	16.88	14.53	4715KL07WB39P00	CR210-ND	1.79
	48	30.0-50.4	39.84	201.0	1.04	62.3	300	Ball	Lock Rotor	Flange	P13430-ND ***NEW!***	58.13	49.99	43.02	4715SL07WB79D00	CR210-ND	1.79
120x38	12	7-13.8	7.80	114.7	8.0	45.5	280	Hydrowave	—	Flange	P9761-ND	18.13	15.59	13.42	FBA12G12U1A	CR210-ND	1.79
	12	7-13.8	5.52	103.8	6.80	41.5	280	Hydrowave	—	Flange	P9750-ND	18.13	15.59	13.42	FBA12G12H1A	CR210-ND	1.79
	12	7-13.8	5.52	103.8	6.80	41.5	280	Hydrowave	—	Rib	P11048-ND	18.13	15.59	13.42	FBA12G12H1AZ	CR210-ND	1.79
	12	7-13.8	5.52	103.8	6.80	41.5	280	Hydrowave	Lock Rotor	Flange	P11049-ND	18.38	15.81	13.60	FBA12G12H1BS	CR210-ND	1.79
	12	7-13.8	5.52	103.8	6.80	41.5	280	Hydrowave	Tac	Flange	P11050-ND	18.63	16.02	13.79	FBA12G12H1BX	CR210-ND	1.79
	12	7-13.8	4.08	86.5	4.80	35.5	280	Hydrowave	—	Flange	P9749-ND	18.13	15.59	13.42	FBA12G12M1A	CR210-ND	1.79
	12	7-13.8	2.16	68.9	3.30	30.0	280	Hydrowave	—	Flange	P9748-ND	18.13	15.59	13.42	FBA12G12L1A	CR210-ND	1.79
	24	14-27.6	5.52	103.8	6.80	41.5	280	Hydrowave	—	Flange	P9753-ND	18.13	15.59	13.42	FBA12G24H1A	CR210-ND	1.79
	24	14-27.6	5.52	103.8	6.80	41.5	280	Hydrowave	Tac	Flange	P11080-ND	18.63	16.02	13.79	FBA12G24H1BX	CR210-ND	1.79
	24	14-27.6	3.84	86.5	4.80	35.5	280	Hydrowave	—	Flange	P9752-ND	18.13	15.59	13.42	FBA12G24M1A	CR210-ND	1.79
	24	14-27.6	4.80	103.8	.26	41.5	280	Hydrowave	—	Flange	P13480-ND ***NEW!***	17.88	15.38	13.23	FBA12G24U1A	CR210-ND	1.79
	24	14-27.6	2.64	68.9	3.30	30.0	280	Hydrowave	—	Flange	P9751-ND	18.13	15.59	13.42	FBA12G24L1A	CR210-ND	1.79
150x172x25	12	6.0-18.0	24.7	250	.65	62.5	400	Ball	—	Rib	P12864-ND	75.63	65.04	55.97	5910PL04WB50L00	CR191-ND	2.28
	24	12.0-30.0	24.0	250.0	.65	62.5	400	Ball	—	Rib	P12865-ND	75.63	65.04	55.97	5910PL05WB50L00	CR191-ND	2.28
	24	12.0-30.0	24.0	250.0	.65	62.5	400	Ball	Tac	Rib	P13431-ND ***NEW!***	76.25	65.58	56.43	5910PL05WB59L50	CR191-ND	2.28
	48	25.0-60.0	35.5	290.0	.89	65.4	400	Ball	Lock Rotor	Rib	P13432-ND ***NEW!***	76.25	65.58	56.43	5910PL07WB79L00	CR191-ND	2.28
150x172x50	12	6.0-18.0	17.28	240	.62	58.0	300	Ball	—	Flange	P12866-ND	72.50	62.35	53.65	5920PL04WB40D00	CR191-ND	2.28
	12	6.0-18.0	17.28	240.0	.62	58.0	300	Ball	Tac	Flange	P13433-ND ***NEW!***	73.13	62.89	54.12	5920PL04WB49D50	CR191-ND	2.28
	24	12.0-30.0	15.84	240	.62	58.0	300	Ball	—	Flange	P12867-ND	72.50	62.35	53.65	5920PL05WB40D00	CR191-ND	2.28
	24	12.0-30.0	15.84	240.0	.62	58.0	300	Ball	Tac	Flange	P13434-ND ***NEW!***	73.13	62.89	54.12	5920PL05WB49D50	CR191-ND	2.28
	48	25.0-60.0	24.48	300.0	.90	63.2	300	Ball	Tac	Flange	P13435-ND ***NEW!***	73.13	62.89	54.12	5920PL07WB79D50	CR191-ND	2.28
172x50	12	6.0-18.0	17.28	240	.62	58.0	300	Ball	—	Flange	P12868-ND	72.50	62.35	53.65	6820PL04WB40D00	CR196-ND	3.06
	24	12.0-30.0	15.84	240	.62	58.0	300	Ball	—	Flange	P12869-ND	72.50	62.35	53.65	6820PL05WB40D00	CR196-ND	3.06
	24	12.0-30.0	25.92	300.0	.90	63.2	300	Ball	Lock Rotor	Flange	P13436-ND ***NEW!***	73.13	62.89	54.12	6820PL05WB79D00	CR196-ND	3.06
	48	25.0-60.0	15.84	240	.62	58.0	300	Ball	—	Flange	P12870-ND	72.50	62.35	53.65	6820PL07WB40D00	CR196-ND	3.06

DC Blowers

NMB-MAT DC Blowers are most suitable for cooling in high back pressure applications. Since the fan impeller is housed inside a rugged plastic enclosure, the blower is not affected by high back pressure caused by objects in close proximity to the exhaust port.

Specifications: • Operating Temperature: -10°C ~ 60°C • Storage Temperature: -40°C ~ 75°C • Blowers with Hydro-Wave and Ball Bearing Technology

Fig. 1

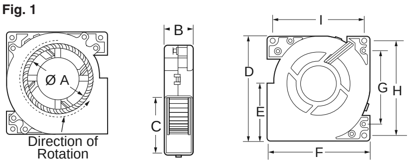

Fig. 2

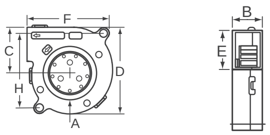

Model Type	Dimensions (mm)								
	A	B	C	D	E	F	G	H	I
FAL-6F	65.8	28.1	55.7	111.4	60.7	107.1	76	99	97
FAL-5F	50	28	37	76	41	76	47	68	68
FAL-3F	33.2	20	26.8	50	26.8	50	29.6	43	43
BM5115	32	15	27	51	20	51	—	43	—
BM5125	32	25	27	51	20	51	—	43	—
BM6015	—	15	32	60	30	60	—	23	—
BG0702	—	25	39.9	75.7	39.9	75.7	—	67.1	—
BG0703	—	30	39.9	75.7	39.9	75.7	—	67.1	—
BG0903	—	33	58	93.5	53	97	—	71	—
BG1203	—	32	55	120	61	120	—	105	90

Fig	Operating Volt. (VDC)		Input Current (mA)	Power (W)	Air Flow CFM	Static Pressure In H2O	Noise	Digi-Key Part No.	Price Each			Panasonic Part No.
	Nom.	Range							1	5	10	
1	12	7-13.8	500	6.00	22.97	0.71	45	P9754-ND	30.00	25.80	22.20	FAL6F12LH
	12	7-13.8	280	3.36	18.73	0.44	40	P9755-ND	30.00	25.80	22.20	FAL6F12LL
	24	14-27.6	295	7.08	23.7	0.78	45	P9763-ND	30.00	25.80	22.20	FAL6F24LH
	24	14-27.6	155	3.72	18.7	0.45	40	P9764-ND	30.00	25.80	22.20	FAL6F24LL
1	12	7-13.8	210	2.52	10.60	0.41	35	P9756-ND	27.50	23.65	20.35	FAL5F12LH
	12	7-13.8	145	1.74	8.83	0.24	29	P9757-ND	27.50	23.65	20.35	FAL5F12LL
	24	14-27.6	150	3.50	9.18	0.28	40	P9765-ND	27.50	23.65	20.35	FAL5F24LH
	24	14-27.6	100	2.40	7.06	0.16	37.5	P9766-ND	27.50	23.65	20.35	FAL5F24LL
1	5	4.5-6	320	1.60	3.17	0.24	34	P9772-ND	21.25	18.28	15.73	FAL3F05LL
	5	4.5-6	570	2.85	4.24	0.39	40	P9773-ND	21.25	18.28	15.73	FAL3F05LH
	12	7-13.8	170	2.04	3.17	0.24	34	P9774-ND	21.25	18.28	15.73	FAL3F12LL
	12	7-13.8	270	3.24	4.24	0.39	40	P9775-ND	21.25	18.28	15.73	FAL3F12LH
	24	14-27.6	150	3.60	4.24	0.39	40	P9776-ND	21.25	18.28	15.73	FAL3F24LH
2	12	10.2-13.8	120	1.44	3.5	0.48	35	P12901-ND	12.50	10.75	9.25	BM511504WB40L00
	12	10.2-13.8	180	2.16	3.5	.80	42	P13437-ND* ***NEW!***	13.13	11.29	9.72	BM511504WB59L00
2	12	10.2-13.8	130	1.56	5.3	.34	34	P12902-ND	12.50	10.75	9.25	BM512504WB40L00
	12	10.2-13.8	240	2.88	6.7	.64	41	P12903-ND	12.50	10.75	9.25	BM512504WB50L00
	12	10.2-13.8	240	2.88	6.7	.64	41	P13438-ND ***NEW!***	13.13	11.29	9.72	BM512504WB59L00
2	12	9-12.6	220	2.64	4.2	.68	42	P13439-ND* ***NEW!***	12.63	10.86	9.35	BM601504WB59L00
2	12	6-13.8	190	2.28	8.47	.50	41	P12904-ND	14.38	12.37	10.64	BG0702B044000T0
	12	6-13.8	250	3.00	9.5	.61	43	P13440-ND ***NEW!***	15.00	12.90	11.10	BG0702B04500L00
	24	10-27.6	140	3.36	9.50	.61	43	P12905-ND	14.38	12.37	10.64	BG0702B05500000
2	12	6-13.0	290	3.48	10.6	11.22	38.5	P12906-ND	14.38	12.37	10.64	BG0703B04400000
	12	6-13.0	290	3.48	10.6	.44	38.5	P13441-ND ***NEW!***	15.00	12.90	11.10	BG0703B04400L00
	24	10-26.0	150	3.60	10.6	11.22	38.5	P12907-ND	14.38	12.37	10.64	BG0703B05400000
2	12	8-12.8	1030	12.40	28.6	1.4	54.5	P12908-ND	19.88	17.10	14.71	BG0903B04400000
	12	10.8-12.6	1600	19.2	38.1	1.9	—	P13442-ND ***NEW!***	20.50	17.63	15.17	BG0903B04700S00
	24	10-25.0	490	11.80	28.6	1.4	54.5	P12909-ND	19.88	17.10	14.71	BG0903B05400000
	24	10-25	490	11.8	28.6	1.4	54.5	P13443-ND ***NEW!***	20.50	17.63	15.17	BG0903B05400L00
1	12	6-13.8	650	7.80	28.2	.70	52	P12910-ND	22.00	18.92	16.28	BG1203B04400000
	12	6-13.8	650	7.8	28.2	.70	52	P13444-ND ***NEW!***	22.63	19.46	16.75	BG1203B04400L00
	12	6-13.8	930	11.16	33.2	1.04	55	P13445-ND ***NEW!***	22.63	19.46	16.75	BG1203B04500S00
	24	12-25.2	480	11.52	33.2	1.04	55	P12911-ND	22.00	18.92	16.28	BG1203B05500000

* Locked Rotor Sensor

ebmpapst Fans

UL yellow card E38324, CSA file 27697, VDE file 3041

Fig. 1

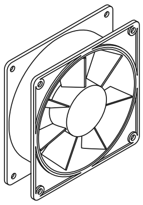

Fig. 2

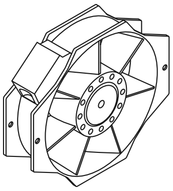

Fig. 3

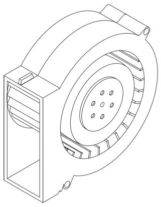

Fig.4

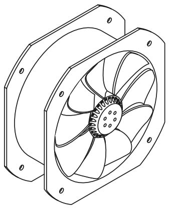

Fig. 5

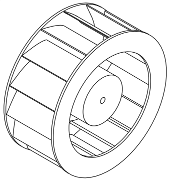

Fig.	Size (mm)	Voltage	Voltage Range	Bearing	Watts	CFM @ O”	dBA	Leads	Digi-Key Part No.	Price Each				ebm-papst Ind. Part No.
										1	25	50	100	
								Brushless DC Fans						
1	40 x 10	12	10~14	Sleeve	0.8	5.3	26	28 AWG 12.2” Leads	381-1081-ND	12.46	9.54	8.75	7.69	412FH
	40 x 10	24	20~28	Sleeve	0.8	4.7	22	28 AWG 12.2” Leads	381-1082-ND	12.81	9.81	9.00	7.91	414F
	40 x 20	12	10~14	Sleeve	1.0	5.9	18	28 AWG 12.2” Leads	381-1069-ND	13.63	10.44	9.57	8.41	412
	40 x 20	24	20~28	Sleeve	1.0	5.9	18	28 AWG 12.2” Leads	381-1070-ND	14.10	10.80	9.90	8.70	414
	40 x 25	12	8~14	Ball	3.3	14	46	28 AWG 12.2” Leads	381-1125-ND	34.43	26.37	24.18	21.25	412JHH
	40 x 25	24	18~27	Ball	3.6	14	46	28 AWG 12.2” Leads	381-1126-ND	34.43	26.37	24.18	21.25	414JHH
	60 x 25	12	6~15	Ball	2.5	24	40	22 AWG 12.2” Leads	381-1071-ND	26.91	20.61	18.90	16.61	612
	60 x 25	12	8~15	Ball	3.0	27	41	22 AWG 12.2” Leads	381-1135-ND	27.50	21.06	19.31	16.97	612NHH
	60 x 25	24	12~30	Ball	2.5	24	40	22 AWG 12.2” Leads	381-1072-ND	26.91	20.61	18.90	16.61	614
	60 x 25	24	12~27	Ball	3.4	27	44	22 AWG 12.2” Leads	381-1097-ND	28.91	22.14	20.30	17.84	614H
	60 x 25	24	18~26	Sintec	3.8	33	43	22 AWG 12.2” Leads	381-1136-ND	21.03	16.11	14.77	12.98	614NGHH
	60 x 25	12	6~15	Ball	1.3	18	33	22 AWG 12.2” Leads	381-1000-ND	26.91	20.61	18.90	16.61	612M
	60 x 25	12	6~15	Ball	0.7	12	26	22 AWG 12.2” Leads	381-1038-ND	26.91	20.61	18.90	16.61	612L
	60 x 25	24	12~30	Ball	0.8	12	26	22 AWG 12.2” Leads	381-1039-ND	26.91	20.61	18.90	16.61	614L
	60 x 25	24	12~30	Ball	1.4	18	33	22 AWG 12.2” Leads	381-1040-ND	26.91	20.61	18.90	16.61	614M
	70 x 15	12	8~13.8	Sintec	1.7	26	36	28 AWG 12.2” Leads	381-1128-ND	29.26	22.41	20.55	18.06	712F
	70 x 15	24	12~30	Sintec	1.7	26	36	28 AWG 12.2” Leads	381-1127-ND	29.26	22.41	20.55	18.06	714F
	80 x 25	12	7~15	Ball	0.8	21	21	24 AWG 12.2” Leads	381-1101-ND	23.62	18.09	16.59	14.58	8412L
	80 x 25	12	7~15	Ball	1.4	27	29	24 AWG 12.2” Leads	381-1049-ND	23.62	18.09	16.59	14.58	8412M
	80 x 25	12	7~15	Ball	2.4	33	35	24 AWG 12.2” Leads	381-1010-ND	23.62	18.09	16.59	14.58	8412
	80 x 25	24	12~28	Ball	1.4	27	29	24 AWG 12.2” Leads	381-1050-ND	23.62	18.09	16.59	14.58	8414M
	80 x 25	24	12~28	Ball	2.4	33	35	24 AWG 12.2” Leads	381-1011-ND	23.62	18.09	16.59	14.58	8414
	80 x 32	12	6~15	Ball	1.8	28	34	22 AWG 12.2” Leads	381-1048-ND	30.79	23.58	21.62	19.00	8312M
	80 x 32	12	6~15	Ball	2.2	32	36	22 AWG 12.2” Leads	381-1008-ND	30.79	23.58	21.62	19.00	8312
	80 x 32	12	6~15	Ball	4	39	43	22 AWG 12.2” Leads	381-1133-ND	39.25	30.06	27.56	24.22	8312HL
	80 x 32	48	36~56	Ball	2.6	32	36	22 AWG 12.2” Leads	381-1077-ND	29.96	22.95	21.04	18.49	8318
	80 x 38	12	8~16	Sleeve	3	35	38	22 AWG 12.2” Leads	381-1099-ND	58.05	44.46	40.76	35.82	8112G
	80 x 38	12	8~16	Ball	3	35	39	22 AWG 12.2” Leads	381-1100-ND	55.83	48.24	44.37	37.68	8112K
	80 x 38	24	18~30	Ball	3	35	39	22 AWG 12.2” Leads	381-1047-ND	62.98	48.24	44.22	38.86	8124K
	92 x 25	12	7~15	Ball	1.3	36	27	24 AWG 12.2” Leads	381-1080-ND	24.56	18.81	17.25	15.16	3412L
	92 x 25	12	7~15	Ball	1.8	42	32	24 AWG 12.2” Leads	381-1012-ND	24.56	18.81	17.25	15.16	3412M
	92 x 25	24	12~28	Ball	1.8	42	32	24 AWG 12.2” Leads	381-1013-ND	24.56	18.81	17.25	15.16	3414M
	92 x 25	24	12~28	Ball	2.6	49	36	24 AWG 12.2” Leads	381-1001-ND	24.56	18.81	17.25	15.16	3414
	92 x 32	12	6~15	Ball	2.4	47	37	22 AWG 12.2” Leads	381-1073-ND	31.14	23.85	21.87	19.22	3312
	92 x 32	24	12~28	Ball	2.4	47	37	22 AWG 12.2” Leads	381-1074-ND	31.14	23.85	21.87	19.22	3314
	92 x 38	12	7~13.8	Ball	7.5	76.5	51	24 AWG 12.2” Leads	381-1141-ND	48.18	36.90	33.83	29.73	3212J/2N
	119 x 25	12	7~14	Ball	3.2	82	38	22 AWG 12.2” Leads	381-1024-ND	28.67	21.96	20.13	17.69	4412FM
	119 x 25	24	12~28	Ball	3.2	82	38	22 AWG 12.2” Leads	381-1025-ND	30.20	23.13	21.21	18.64	4414FM
	119 x 32	12	6~15	Ball	2.6	82	39	22 AWG 12.2” Leads	381-1021-ND	31.14	23.85	21.87	19.22	4312M
	119 x 32	12	6~15	Ball	5	100	45	Leads, Hall Effect	381-1088-ND	33.14	25.38	23.27	20.45	4312S
	119 x 32	12	6~15	Ball	5	100	45	22 AWG 12.2” Leads	381-1002-ND	31.14	23.85	21.87	19.22	4312
	119 x 32	24	12~28	Ball	2.6	82	39	22 AWG 12.2” Leads	381-1023-ND	31.14	23.85	21.87	19.22	4314M
	119 x 32	24	12~28	Ball	5	100	45	22 AWG 12.2” Leads	381-1003-ND	31.14	23.85	21.87	19.22	4314
	119 x 32	48	36~53	Ball	5	100	45	22 AWG 12.2” Leads	381-1004-ND	34.55	26.46	24.26	21.32	4318
	119 x 38	12	7~14.5	Ball	1.2	51	29	22 AWG 12.2” Leads	381-1016-ND	39.36	30.15	27.64	24.29	4212L
	119 x 38	12	7~14.5	Ball	2.2	75	38	22 AWG 12.2” Leads	381-1017-ND	39.36	30.15	27.64	24.29	4212M
	119 x 38	12	7~15	Ball	4.5	106	49	.110” x .02” Terminals	381-1014-ND	51.58	39.51	36.22	31.83	4182NX
	119 x 38	12	7~14.5	Ball	5.3	108	49	22 AWG 12.2” Leads	381-1084-ND	42.30	32.40	29.70	26.10	4212H
	119 x 38	12	7~15	Ball	21	162	60	22 AWG 12.2” Leads	381-1142-ND	96.50	84.44	77.20	67.55	DV4112/2NP-3021
	119 x 38	24	12~28	Ball	5.3	108	49	22 AWG 12.2” Leads	381-1085-ND	42.30	32.40	29.70	26.10	4214H
	119 x 38	24	12~29	Ball	4.5	106	49	.110” x .02” Terminals	381-1015-ND	51.58	39.51	36.22	31.83	4184NX
	119 x 38	24	12~25	Ball	11	140	59	22 AWG 12.2” Leads	381-1139-ND	54.17	41.49	38.04	33.43	4114NXH
	119 x 38	24	12~25	Ball	11	140	59	.110” x .02” Terminals	381-1134-ND	58.28	44.64	40.92	35.96	4184NXH
	119 x 38	24	16~30	Ball	21	162	60	22 AWG 12.2” Leads	381-1143-ND	96.50	84.44	77.20	67.55	DV4114/2N-900
	119 x 38	48	36~56	Ball	5.6	108	49	.110 x .02” Terminals	381-1087-ND	46.88	35.91	32.92	28.93	4298H
	119 x 38	48	36~56	Ball	16	157	63	22 AWG 10.6” Leads	381-1138-ND*	135.70	118.74	108.56	94.99	W1G110-AG07-06
	119 x 38	48	36~60	Ball	21	162	60	22 AWG 12.2” Leads	381-1144-ND	91.20	79.80	72.96	63.84	DV4118/2NP-30183
	119 x 38	48	44~52	Ball	15	159	64	22 AWG 12.2” Leads	381-1140-ND	63.92	48.96	44.88	39.44	4118N/2HH-00187
	127 x 38	12	8~16	Ball	4.5	118	44	.110” x .02” Terminals	381-1115-ND	64.16	49.14	45.05	39.59	W2G115-AD15-13
	127 x 38	12	7~14	Ball	6	127	46	22 AWG 12.2” Leads	381-1131-ND	47.59	36.45	33.42	29.37	5212NN
	127 x 38	12	11~13	Ball	20	159	56	22 AWG 12.2” Leads	381-1145-ND	108.60	95.03	86.88	76.02	DV5212/2N-40184
	127 x 38	24	12~28	Ball	6	127	46	22 AWG 12.2” Leads	381-1132-ND	47.59	36.45	33.42	29.37	5214NN
	127 x 38	24	16~28	Ball	12	160	52	.110” x .02” Terminals	381-1068-ND	82.02	62.82	57.59	50.61	W2G115-AG71-12
	127 x 38	24	22~26	Ball	20	159	56	22 AWG 12.2” Leads	381-1146-ND	104.60	91.53	83.68	73.22	DV5214/2N-40185
	127 x 38	48	43~53	Ball	22	159	56	22 AWG 12.2” Leads	381-1147-ND	109.80	96.08	87.84	76.86	DV5218/2NP-40182
2	172 x 51	24	12~28	Ball	18	241	57	.118” x .02” Terminals	381-1005-ND	82.96	63.54	58.25	51.19	6424
	172 x 51	24	12~28	Ball	26	283	61	.118” x .02” Terminals	381-1043-ND	99.41	76.14	69.80	61.34	6424NH
	172 x 51	24	12~28	Ball	26	283	63	.118” x .02” Terminals	381-1046-ND	102.93	78.84	72.27	63.51	6424H
	172 x 51	24	16~30	Ball	37	318	63	22 AWG 12.2” Leads	381-1156-ND	115.40	100.98	92.32	80.78	DV6224
	172 x 51	48	28~60	Ball	17	241	55	.118” x .02” Terminals	381-1045-ND	82.96	63.54	58.25	51.19	6248N
	172 x 51	48	40~60	Ball	37	318	63	22 AWG 12.2” Leads	381-1157-ND	115.40	100.98	92.32	80.78	DV6248
								DC Flatpak Blowers						
3	76 x 27	12	8~13.5	Ball	5	16.5	51	22 AWG 12.2” Leads	381-1148-ND	40.54	31.05	28.47	25.02	RL48-19/12
	76 x 27	24	18~26.4	Ball	5	16.5	51	22 AWG 12.2” Leads	381-1149-ND	40.54	31.05	28.47	25.02	RL48-19/14
	97 x 93.5 x 33	12	8~12	Ball	12.5	32.4	62	26 AWG 12.2” Leads	381-1150-ND	49.12	37.62	34.49	30.31	RL65-21/12/2
	121 x 37	12	7~15	Ball	5	24	58	22 AWG 12.2” Leads	381-1059-ND	59.93	45.90	42.08	36.98	RL90-18/12N
	121 x 37	24	12~28	Ball	5	24	58	22 AWG 12.2” Leads	381-1060-ND	59.93	45.90	42.08	36.98	RL90-18/14N
	127 x 25	12	8~15	Ball	8	37.7	60	22 AWG 12.2” Leads	381-1151-ND	72.20	63.18	57.76	50.54	RLF100-11/12
	127 x 25	24	6~30	Ball	8	37.7	60	22 AWG 12.2” Leads	381-1152-ND	72.20	63.18	57.76	50.54	RLF100-11/14
	127 x 25	48	36~60	Ball	8	37.7	60	22 AWG 12.2” Leads	381-1153-ND	75.00	65.63	60.00	52.50	RLF100-11/18/2HP

Please Note: Custom Fan Cable Assemblies available upon request.

* Requires Mating Housing Connector H10117 & Contacts H10119

(Continued)

Fig.	Size (mm)	Voltage	Voltage Range	CFM @ O”	dBA	Watts	Impeller Material	Digi-Key Part No.	Price Each				ebm-papst Ind. Part No.
									1	25	50	100	
								DC Motorized Impellers					
5	102 x 52	12	11~13	90	69	13.5	Plastic	381-1129-ND	117.27	89.82	82.34	72.36	RER101-36/12/12P

Fig.	Size (mm)	Voltage	Input Watts	CFM @ O”	dBA	Impeller Dimensions Inches (mm)	Capacitor	Impeller Material	Digi-Key Part No.	Price Each				ebm-papst Ind. Part No.
										1	25	50	100	
						AC Backward Curved Motorized Impellers								
5	220 x 71	115	96	500	71	8.66” (220) x 2.8” (71)	10	Plastic	381-1110-ND	95.76	73.35	67.24	59.09	R2E220-AA44-23
	220 x 71	230	100	530	71	8.66” (220) x 2.8” (71)	2	Plastic	381-1109-ND	95.76	73.35	67.24	59.09	R2E220-AA40-23

Fig.	Size (mm)	Voltage	Input Watts	CFM @ O”	dBA	Impeller Dimensions Inches (mm)	Impeller Material	Digi-Key Part No.	Price Each				ebm-papst Ind. Part No.
									1	25	50	100	
						DC Backward Curved Motorized Impellers							
5	133 x 91	24	28	212	63	5.25” (133) x 2.39” (60.6)	Plastic	381-1154-ND	180.00	157.50	144.00	126.00	R1G133-AA17-02
	133 x 91	48	28	212	63	5.25” (133) x 2.39” (60.6)	Plastic	381-1155-ND	180.00	157.50	144.00	126.00	R1G133-AA65-02
	175 x 69	24	36	330	65	6.9” (175) x 2.72” (69)	Plastic	381-1158-ND	184.50	161.44	147.60	129.15	R1G175-AB63-02
	175 x 69	48	36	330	65	6.9” (175) x 2.72” (69)	Plastic	381-1159-ND	184.50	161.44	147.60	129.15	R1G175-AB41-02

Fig.	Size (mm)	Bearing	Voltage	Input Watts	CFM @ O"	dBA	Leads	Digi-Key Part No.	Price Each				ebm-papst Ind. Part No.
									1	25	50	100	
							AC Tubeaxial Fans						
1	80 x 38	Sleeve	115	8	21	21	18 AWG 12.2" Leads	381-1057-ND	33.96	26.01	23.85	20.96	8830N
	80 x 38	Sleeve	115	11	28	28	18 AWG 12.2" Leads	381-1106-ND	33.96	26.01	23.85	20.96	8800N
	80 x 38	Sleeve	115	11	36	34	18 AWG 12.2" Leads	381-1103-ND	30.20	23.13	21.21	18.64	8500N
	80 x 38	Sleeve	115	11	36	34	18 AWG 12.2" Leads	381-1102-ND	38.31	29.34	26.90	23.64	8500DP
	80 x 38	Sleeve	230	11	36	34	18 AWG 12.2" Leads	381-1105-ND	32.67	25.02	22.94	20.16	8550N
	80 x 38	Ball	115	11	36	35	22 AWG 12.2" Leads	381-1104-ND	41.71	31.95	29.29	25.74	8506N
	80 x 38	Sleeve	115	11	34	41	.110"x.02" Terminals	381-1051-ND	33.72	25.83	23.68	20.81	8500A
	80 x 38	Sleeve	115	11	36	34	22 AWG 12.2" Leads	381-1052-ND	32.99	28.53	26.22	22.29	8500VW
	80 x 38	Ball	115	11	36	34	22 AWG 12.2" Leads	381-1053-ND	40.84	35.28	32.44	27.58	8506VW
	80 x 38	Ball	230	11	36	34	22 AWG 12.2" Leads	381-1055-ND	41.17	35.64	32.68	27.84	8556VW
	92 x 25	Ball	115	9	41	40	.110"x.02" Terminals	381-1076-ND	37.84	28.98	26.57	23.35	3906
	92 x 38	Ball	115	11	52	42	18 AWG 12.2" Leads	381-1075-ND	46.30	35.46	32.51	28.57	3606
	119 x 25	Ball	115	8	59	35	.110"x.02" Terminals	381-1107-ND	40.89	31.32	28.71	25.23	9906L
	119 x 25	Ball	115	12	79	42	.110"x.02" Terminals	381-1078-ND	42.42	32.49	29.79	26.18	9906
	119 x 25	Ball	230	12	79	42	.110"x.02"Terminals	381-1079-ND	40.89	31.32	28.71	25.23	9956
	119 x 38	Sleeve	115	18	106	50	.110"x.02" Terminals	381-1089-ND	29.02	22.23	20.38	17.91	4600N
	119 x 38	Sleeve	115	18	106	50	.110"x.02" Terminals	381-1090-ND	29.02	22.23	20.38	17.91	4600X
	119 x 38	Sleeve	230	18	106	50	.110"x.02" Terminals	381-1093-ND	32.43	24.84	22.77	20.01	4650N
	119 x 38	Sleeve	230	18	106	50	.110"x.02" Terminals	381-1094-ND	32.43	24.84	22.77	20.01	4650X
	119 x 38	Ball	115	18	106	51	.110"x.02" Terminals	381-1091-ND	40.66	31.14	28.55	25.09	4606N
	119 x 38	Ball	230	18	106	51	.110"x.02" Terminals	381-1095-ND	42.42	32.49	29.79	26.18	4656X
	119 x 38	Ball	115	18	106	45	.118"x.02" Terminals	381-1030-ND	44.89	34.38	31.52	27.70	4606VX
	119 x 38	Ball	230	18	106	45	.118"x.02" Terminals	381-1034-ND	60.40	46.26	42.41	37.27	4656VX-817
	119 x 38	Sleeve	115	12	71	32	.110"x.02" Terminals	381-1026-ND	35.13	26.91	24.67	21.68	4530Z
	119 x 38	Sleeve	115	18	106	45	.110"x.02" Terminals	381-1029-ND	28.32	21.69	19.89	17.48	4600Z
	119 x 38	Sleeve	230	19	94	40	.110"x.02" Terminals	381-1033-ND	33.49	25.65	23.52	20.67	4650Z
	119 x 38	Ball	115	18	106	45	.110"x.02" Terminals	381-1031-ND	44.89	34.38	31.52	27.70	4606Z
	119 x 38	Ball	115	18	106	45	22 AWG 12.2" Leads	381-1092-ND	44.89	34.38	31.52	27.70	4606ZW
	119 x 38	Ball	230	19	94	40	.110"x.02" Terminals	381-1035-ND	44.65	34.20	31.35	27.55	4656Z
	127 x 38	Ball	115	17	121	47	.110"x.02" Terminals	381-1119-ND	49.82	38.16	34.98	30.74	5908-105
	127 x 38	Sleeve	115	17	121	47	.110"x.02" Terminals	381-1120-ND	43.36	33.21	30.45	26.76	5900-505
	135 x 38	Ball	230	26	159	50	.110"x.02" Terminals	381-1096-ND	78.84	60.39	55.36	48.65	5656S
2	150 x 55	Ball	115	38	225	52	20 AWG 13.3" Leads	381-1121-ND	71.91	55.08	50.49	44.37	W2S130-AA25-01
	150 x 55	Ball	115	46	263	60	20 AWG 13.3" Leads	381-1124-ND	71.91	55.08	50.49	44.37	W2S130-BM15-01
	150 x 55	Ball	230	46	250	60	20 AWG 13.3" Leads	381-1123-ND	71.91	55.08	50.49	44.37	W2S130-BM03-01
	172 x 51	Ball	115	26	260	58	PSC 0.11" Terminals	381-1065-ND	100.11	76.68	70.29	61.77	W2E143-AA15-01
	172 x 51	Ball	230	29	295	58	PSC 0.11" Terminals	381-1066-ND	100.11	76.68	70.29	61.77	W2E143-AB09-01
	172 x 150 x 38	Ball	230	28	230	57	0.11" Terminals	381-1062-ND	95.76	73.35	67.24	59.09	W2E142-BB01-01
	172 x 150 x 38	Ball	115	24	230	57	0.11" Terminals	381-1063-ND	95.76	73.35	67.24	59.09	W2E142-BB05-01
4	225 x 80	Ball	115	80	607	61	Terminal Block	381-1114-ND	127.10	111.22	101.68	88.97	W2E200-HH86-01
							AC Flatpak Blowers						
3	121 x 37	Sleeve	115	20	25	60	22 AWG 12.2" Leads	381-1058-ND	52.41	40.14	36.80	32.34	RL90-18/00
	121 x 37	Sleeve	230	20	25	60	22 AWG 12.2" Leads	381-1061-ND	59.69	45.72	41.91	36.83	RL90-18/50

Please Note: Custom Fan Cable Assemblies available upon request.

SUNON Thin Cooling Fans and Blowers

General

Motor: Patented brushless DC motor design **Fan Housing:** Injection molded non-flammable black thermoplastic UL 94V-O rating **Blower Housing:** See Below **Impeller:** Injection molded non-flammable black thermoplastic UL 94V-O rating **Bearing:** Precision, life-lubricated ball bearing system; Precision, oil-impregnated sintered sleeve bearing system. **Insulation:** Class E integral ground system rated @ 100°C **Insulation Resistance:** More than 500M ohm between internal stator and lead wire (+) measured by DC 500V **Dielectric Strength:** 500VAC for one minute **Safety Protection:** Electronic locked rotor protected **Operating Temperature:** -10°C ~ 70°C for sleeve bearing version; -10°C ~ 70°C for ball bearing version (fans); 0°C ~ 70°C (blowers) **Storage Temperature:** -40°C ~ 70°C (fans); -20°C ~ 70°C (blowers) **Operating Voltage:** Rated voltage ±15% **Life Expectancy:** 30,000 hours

Blower Features

• Exceptional cooling performance, radiating blower with one directional exhaust • Low noise via highly efficient fan blade design • Low power consumption and high motor efficiency through radial gap type motor design

Fig. 1

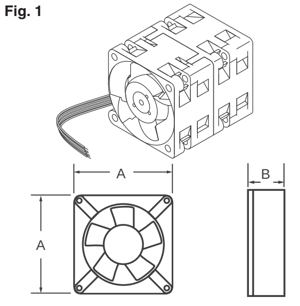

Fig. 2

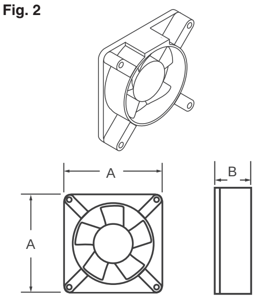

Fig. 3

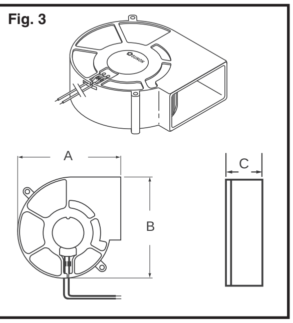

Dim. (mm) A x B	Voltage (VDC)	Operating Voltage (VDC)	Bearing Type	Motor No. of Poles	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Digi-Key Part No.	Price Each				Sunon Part No.
												1	10	25	50	
Fig. 1 — Hi-Performance Dual Axial Fans																
40 x 48	12	5-13.8	Ball	4	1.40	16.8	14500/9500	27	1.97	61	259-1301-ND	30.60	23.55	22.05	20.74	PMD1204PJB1-A
					0.71	8.5	11500/8000	21.2	1.11	57	259-1302-ND	30.60	23.55	22.05	20.74	PMD1204PJB3-A
40 x 56	12	5-13.8	Ball	4	1.40	16.8	14500/9500	26.5	1.73	59	259-1303-ND	31.75	24.43	22.88	21.52	PMD1204PPB1-A(2)
Fig. 2 — Plastic Ultra-Thin Brushless DC Fans																
17 x 8	5	4-6	Ball	8	0.09	0.60	12000	0.80	0.12	25	259-1116-ND	19.24	14.52	13.60	12.79	KDE0517PDB2-8(2)V
20 x 8	5	4-6	Ball	8	0.11	1.0	15000	1.90	0.18	29	259-1081-ND	19.61	14.52	13.60	12.79	KDE0501PDB1-8(2)V
					0.09	0.60	12000	1.6	0.15	26.5	259-1117-ND	19.61	14.52	13.60	12.79	KDE0501PDB2-8(2)V
25 x 6	5	3-6	Ball	8	0.16	0.8	13000	3.0	0.22	31	259-1189-ND	13.70	10.15	9.51	8.94	KDE0502PEB1-8(MS.N)
					0.11	0.6	11500	2.7	0.18	26	259-1187-ND	13.70	10.15	9.51	8.94	KDE0502PEB2-8(MS.N)
30 x 6	5	4-6	Ball	8	0.11	0.90	9500	4.90	0.15	25	259-1119-ND	13.44	10.17	9.51	8.95	KDE0503PEB1-8(MS.N)
		3-6			0.15	0.75	7500	4.3	0.08	24.5	259-1190-ND	13.44	10.17	9.51	8.95	KDE0503PEB2-8(MS.N)
		3.5-6			0.07	0.35	5500	2.4	0.06	16.5	259-1191-ND	13.44	10.17	9.51	8.95	KDE0503PEB3-8(MS.N)
40 x 6	5	3-6	Ball	8	0.21	1.0	7000	5.9	0.10	32	259-1192-ND	13.29	10.18	9.52	8.94	KDE0504PEB1-8(MS)
					0.11	0.55	6000	5.3	0.07	28	259-1184-ND	13.29	10.18	9.52	8.94	KDE0504PEB2-8(MS)
					0.09	0.45	5000	4.5	0.06	23	259-1186-ND	13.29	10.18	9.52	8.94	KDE0504PEB3-8(MS)
Fig. 2 — Plastic Thin Brushless DC Fans																
20 x 10	5	4-6	Ball	8	0.12	0.6	10000	1.45	0.15	22	259-1125-ND	18.20	13.42	12.55	11.80	KDE0501PFB2-8.N(2)(V)
25 x 10	5	3-6	Vapo	8	0.12	0.6	13000	3.5	0.25	23	259-1265-ND	18.82	14.49	13.56	12.76	GM0502PFV1-8M
		4-6	Ball	8	0.12	0.9	10000	2.4	0.16	24	259-1012-ND	14.07	10.45	9.78	9.19	KDE0502PFB1-8V
					0.12	0.6	10000	2.0	0.16	24	259-1062-ND	14.07	10.45	9.78	9.19	KDE0502PFB2-8V
					0.06	0.3	7000	1.3	0.09	23	259-1013-ND	14.07	10.45	9.78	9.19	KDE0502PFB3-8V
	12	10.2-13.8	Ball	8	0.10	1.0	10000	3.1	0.16	24	259-1014-ND	14.07	10.45	9.78	9.19	KDE1202PFB1-8V
					0.10	.72	10000	2.0	0.16	24	259-1063-ND	14.07	10.45	9.78	9.19	KDE1202PFB2-8V
					0.08	0.5	7000	1.3	0.09	23	259-1015-ND	14.07	10.45	9.78	9.19	KDE1202PFB3-8V
30 x 10	5	4-6	Ball	8	0.18	0.9	9500	3.5	0.14	22.5	259-1016-ND	14.07	10.45	9.78	9.19	KDE0503PFB1-8V
	12	10.2-13.8	Ball	8	0.13	0.9	9500	5.1	0.14	22.5	259-1018-ND	14.07	10.45	9.78	9.19	KDE1203PFB1-8V
					0.12	0.7	8000	4.2	0.11	20.5	259-1065-ND	14.07	10.45	9.78	9.19	KDE1203PFB2-8V
					0.08	0.6	5500	3.15	0.07	18	259-1019-ND	14.07	10.45	9.78	9.19	KDE1203PFB3-8V
35 x 10	5	3.5-6	Ball	8	0.20	1.0	7500	6.5	0.12	25.5	259-1185-ND	14.79	11.57	10.83	10.17	KDE0535PFB1-8(MS)OC
					0.14	0.7	6000	5.2	0.08	21	259-1188-ND	14.79	11.57	10.83	10.17	KDE0535PFB2-8(MS)OC
					0.07	0.35	4500	3.8	0.05	18	259-1182-ND	14.79	11.57	10.83	10.17	KDE0535PFB3-8(MS)OC
	12	5-13.8	Ball	8	0.08	0.7	7500	6.5	0.12	25.5	259-1183-ND	14.79	11.57	10.83	10.17	KDE1235PFB1-8(MS)
					0.06	0.7	6000	5.2	0.08	19.5	259-1181-ND	14.79	11.57	10.83	10.17	KDE1235PFB2-8(MS)
					0.06	0.7	4500	3.8	0.05	18	259-1180-ND	14.79	11.57	10.83	10.17	KDE1235PFB3-8(MS)
40 x 10	5	3.5-6	Ball	4	0.20	1.0	7500	7.5	0.17	28	259-1267-ND	8.24	5.90	5.60	5.22	KD0504PFB1 OC
		3-6			0.16	0.8	7400	7.3	0.18	31	259-1271-ND•	9.36	6.70	6.37	5.94	KDE0504PFB1 MS.M
		4-6	Sleeve	8	0.15	0.7	7000	6.6	0.17	25	259-1132-ND	6.89	4.86	4.64	4.26	KDE0504PFS1-8
					0.11	0.6	6000	5.6	0.13	24	259-1133-ND	6.89	4.86	4.64	4.26	KDE0504PFS2-8
					0.08	0.4	4500	4.5	0.09	22.8	259-1134-ND	6.89	4.86	4.64	4.26	KDE0504PFS3-8
	12	5-13.8	Ball	4	0.12	1.4	8400	8.3	0.19	34.4	259-1193-ND	7.23	5.18	4.92	4.59	KD1204PFB1 H
		5-13.8	Ball		0.08	1.0	7400	7.3	0.18	31	259-1266-ND•	9.36	6.70	6.37	5.94	KDE1204PFB1 MS.M
		5-13.8	Ball		0.09	1.1	6600	6.5	0.15	27	259-1205-ND	7.23	5.18	4.92	4.59	KD1204PFB2 H
		5-13.8	Sleeve		0.12	1.4	7400	7.3	0.17	30.3	259-1199-ND	6.01	4.24	4.05	3.71	KD1204PFS1 H
		5-13.8	Ball		0.05	0.6	5200	4.7	0.10	24	259-1198-ND	7.23	5.18	4.92	4.59	KD1204PFB3 H
		6-13.8	Sleeve		0.06	0.7	4200	4.2	0.08	22	259-1200-ND	6.01	4.24	4.05	3.71	KD1204PFS3 H
40 x 20	12	5-13.8	Sleeve	4	0.07	0.8	6200	7.7	0.16	21	259-1280-ND	4.67	3.60	3.37	3.17	KD1204PKS2 H
40 x 28	12	10.2-13.8	Ball	4	0.33	4.0	11000	19	0.78	45	259-1268-ND	17.29	13.31	12.46	11.72	PMD1204PQB1-A(2)
45 x 10	5	3.5-6	Ball	4	0.21	1.0	7000	9.5	0.16	32	259-1287-ND	8.61	6.17	5.87	5.46	KD0545PFB1 OC
		3.5-6	Ball	4	0.17	0.9	5900	8.0	0.13	29	259-1288-ND	8.61	6.17	5.87	5.46	KD0545PFB2 OC
		4-6	Sleeve	8	0.12	0.6	5200	7	0.11	27	259-1144-ND	7.01	4.95	4.63	4.35	KDE0545PFS2-8
	12	5-13.8	Ball	4	0.09	1.1	5900	8	0.13	29	259-1207-ND	7.57	5.43	5.17	4.81	KD1245PFB2 H
		5-13.8	Ball		0.09	1.1	5900	8.0	0.13	29	259-1196-ND	7.57	5.43	5.17	4.81	KD1245PFB3 H
		6-13.8	Sleeve		0.10	1.2	5300	7.1	0.12	25.2	259-1202-ND	6.29	4.44	4.16	3.91	KD1245PFS2 H
50 x 10	5	4-6	Ball	8	0.17	0.9	5400	10.2	0.11	31.5	259-1281-ND	8.80	6.31	6.00	5.58	KDE0505PFB1-8
			Sleeve		0.13	0.6	4300	8	0.09	29	259-1259-ND	7.27	5.13	4.80	4.51	KDE0505PFS2-8
	12	5-13.8	Ball	4	0.13	1.6	6000	11.4	0.12	34.7	259-1195-ND	7.73	5.54	5.27	4.91	KD1205PFB1 H
					0.10	1.2	5000	9.5	0.10	28.9	259-1201-ND	7.73	5.54	5.27	4.91	KD1205PFB2 H
	12	5-13.8	Ball	4	0.07	0.8	4200	8.0	0.08	24.3	259-1194-ND	7.34	5.24	4.99	4.65	KD1205PFB3 H
		6-13.8	Sleeve		0.09	1.1	4500	8.5	0.09	26	259-1206-ND	7.57	5.34	5.00	4.70	KD1205PFS2 H
52 x 15	5	4-6	Ball	4	0.38	1.9	5300	12.7	0.16	27.8	259-1161-ND	9.39	6.93	6.59	6.14	KDE0505PHB2
50 x 15	12	8-13.8	Ball	4	0.06	0.7	3700	10.2	0.12	22.5	259-1204-ND	8.15	6.02	5.72	5.33	KD1205PHB3 H

* Plastic Housing (Fan Blades - PBT 94V-O) † Aluminum Housing (Fan Blades - PBT 94V-O) • TAC Sensor ∆ Frequency Generator ***Please Note: Custom Fan Cable Assemblies available upon request.***

(Continued)

SUNON Thin Cooling Fans and Blowers *(Cont.)*

Dim. (mm) A x B	Voltage (VDC)	Operating Voltage (VDC)	Bearing Type	Motor No. of Poles	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Digi-Key Part No.	Price Each				Sunon Part No.
												1	10	25	50	
60 x 15	12	5-13.8	Ball	4	0.15	1.8	4300	21	0.18	37.5	259-1282-ND	7.22	5.56	5.20	4.90	KD1206PHB1 H
60 x 25	12	5-13.8	Ball	4	0.17	2.0	4300	22.5	0.20	34	259-1284-ND	7.09	5.46	5.11	4.81	KD1206PTB1 H
			Ball		0.17	2.0	4300	22.5	0.20	34	259-1285-ND•	8.24	6.34	5.94	5.59	KD1206PTB1 H.M
			Sleeve		0.16	1.9	4300	22.5	0.20	33.5	259-1286-ND	4.54	3.50	3.28	3.08	KD1206PTS1 H
80 x 15	12	5-13.8	Ball	4	0.24	2.9	3300	35	0.17	39.5	259-1273-ND	9.95	7.66	7.17	6.74	KD1208PHB1-A H
											259-1274-NDΔ	10.33	7.95	7.45	7.00	KD1208PHB1-A H.F
80 x 38	12	10.2-13.8	Ball	4	0.76	9.1	5700	84.1	0.74	55.2	259-1276-ND	20.02	15.41	14.43	13.57	PMD1208PMB1-A (2)
120 x 38	12	10.2-13.8	Ball	6	0.63	7.6	3150	120	0.34	46.5	259-1261-NDΔ	18.44	14.19	13.29	12.50	KD1212PMBX-6A (F)
	12	10.2-13.8	Ball	4	1.7	21	4000	190	0.72	63	259-1262-ND	27.57	21.22	19.87	18.68	PSD1212PMB1 (2)
	12	10.2-13.8	Ball	4	1.7	21	4000	190	0.70	63	259-1263-NDΔ	29.48	22.69	21.25	19.98	PSD1212PMB1 (2) F
	48	20-55	Ball	6	0.19	9.1	3000	136	0.30	47	259-1264-ND	16.52	12.72	11.91	11.20	KD4812PMB1-6A

Dim. (mm) A x B x C	Voltage (VDC)	Operating Voltage (VDC)	Bearing Type	Motor No. of Poles	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Digi-Key Part No.	Price Each				Sunon Part No.
												1	10	25	50	
Fig. 3 — Ultra-Thin Miniature Brushless DC Blowers																
35 x 35 x 4.8	5	4-6	Ball	8	0.16	0.8	9500	1.2	0.33	30	259-1087-ND†	17.47	14.23	13.33	12.53	GB0535ACB1-8 OC
					0.07	0.35	7500	0.95	0.22	24	259-1088-ND†	17.47	14.23	13.33	12.53	GB0535ACB2-8 OC
35 x 35 x 6	5	4-6	Ball	8	0.12	0.6	8500	1.4	0.32	31	259-1089-ND†	17.47	14.23	13.33	12.53	GB0535AEB1-8 OC
					0.08	0.4	7000	1.15	0.22	25	259-1090-ND†	17.47	14.23	13.33	12.53	GB0535AEB2-8 OC
35 x 35 x 7	5	4-6	Ball	8	0.12	0.6	8000	1.6	0.31	33	259-1091-ND†	17.47	14.23	13.33	12.53	GB0535ADB1-8 OC
					0.08	0.4	6500	1.3	0.22	25	259-1092-ND†	17.47	14.23	13.33	12.53	GB0535ADB2-8 OC
Fig. 3 — Thin Miniature Brushless DC Blowers																
25 x 25 x 10	5	4-6	Ball	8	0.125	0.60	10000	0.7	0.23	24	259-1165-ND*	13.55	10.18	9.52	8.94	B0502PFB2-8(MS)
					0.2	0.9	7000	0.90	0.37	25	259-1166-ND†	13.75	10.31	9.80	9.13	B0502AFB1-8(MS)
					0.125	0.60	10000	0.7	0.23	24	259-1167-ND*	13.75	10.31	9.80	9.13	B0502AFB2-8(MS)
30 x 30 x 10	5	4-6	Ball	8	0.125	0.65	8000	1.00	0.27	20.5	259-1168-ND*	13.55	10.18	9.52	8.94	B0503PFB2-8(MS)
					0.22	0.95	7000	1.20	0.38	22.5	259-1169-ND†	13.75	10.31	9.80	9.13	B0503AFB1-8(MS)
					0.125	0.65	8000	1.00	0.27	20.5	259-1170-ND*	13.75	10.31	9.80	9.13	B0503AFB2-8(MS)
40 x 40 x 9	5	3-6	Vapo	8	0.06	0.30	6500	1.8	0.30	30	259-1289-ND	15.72	11.81	11.05	10.38	GB0504AFV1-8
45 x 45 x 9	5	3-6	Vapo	8	0.07	0.35	5500	2.2	0.26	29	259-1290-ND	15.72	11.81	11.05	10.38	GB0545AFV1-8
50 x 50 x 15	12	5-13.8	Vapo	8	0.06	0.7	4000	3.0	0.40	33.4	259-1292-ND	14.41	10.83	10.13	9.51	GB1205PHV2-8AY
50 x 50 x 20	12	5-13.8	Vapo	8	0.12	1.4	5200	5.7	0.66	35	259-1293-ND	14.93	11.22	10.50	9.86	GB1205PKV1-8AY
					0.09	1.1	4400	4.8	0.46	30	259-1294-ND	14.93	11.22	10.50	9.86	GB1205PKV3-8AY
75 x 75 x 30	12	10.2-13.8	Ball	4	0.30	3.6	3400	13.6	0.60	43.5	259-1295-ND	16.38	12.30	11.51	10.81	PMB1275PNB1-AY(2)
		6-13.8			0.13	1.6	2400	9.6	0.27	33.9	259-1296-ND	16.38	12.30	11.51	10.81	PMB1275PNB3-AY(2)
97 x 94 x 33	12	10.2-13.8	Ball	4	0.30	3.6	2700	22.4	0.43	50	259-1298-ND	21.22	15.94	14.91	14.01	PMB1297PYB3-AY(2)
120 x 120 x 32	12	6-13.8	Ball	4	0.82	9.8	2500	35.9	0.89	53.8	259-1299-ND	25.02	18.79	17.58	16.52	PMB1212PLB2-A(2)
		10.2-13.8			0.45	5.4	2100	31.4	0.64	49.6	259-1300-ND	25.02	18.79	17.58	16.52	PMB1212PLB3-A(2)

* Plastic Housing (Fan Blades - PBT 94V-O) † Aluminum Housing (Fan Blades - PBT 94V-O) • TAC Sensor Δ Frequency Generator ***Please Note: Custom Fan Cable Assemblies available upon request.***

AC Axial Fans

The best choice for industrial equipment and home appliance. SUNON Axial AC Fans are equipped with a shaded-pole motor, die-cast aluminum frame, and UL 94V-0 rated injection molded non-flammable thermoplastic impeller, and is the most reliable AC Fan in the field. SUNON AC Fans are available in both life-lubricated ball bearing systems and oil-impregnated sintered sleeve bearing systems to meet the diverse needs of the market.

Features: • Frame: Die cast aluminum • Insulation: Class B integral ground system rated at 120°C • Insulation Resistance: 500 Megohms, minimum at 500VDC • Operating Temperature: -10° ~ 70°C

Applications: Game Machines, Copy Machines, Medical Equipment, Vending Machines, Packing Equipment, Air Conditioners, Heaters, Manufacturing Equipment and Electric Products.

Fig. 1

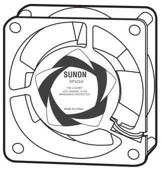

Fig. 2

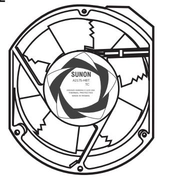

Fig. 3

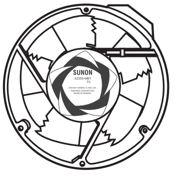

Fig.	Connection Type	Bearing	Rated Voltage	Power (Watts)	Current Amp	RPM	CFM	Dimensions (mm)	Wt.(g)	Digi-Key Part No.	Price Each			Sunon Part No.
											1	10	25	
1	Terminal	Ball	115	11/11	0.13/0.11	2150/2300	72/78	120 x 38 mm	550	259-1095-ND	14.15	11.82	11.07	SP103A-1123LBT
	Terminal	Sleeve	115	11/11	0.13/0.11	2000/2200	70/76	120 x 38 mm	550	259-1098-ND	11.16	9.32	8.73	SP103A-1123LST
	Lead Wires	Ball	220/240	14/13.5	0.07/0.06	2400/2850	24/31	80 x 38 mm	340	259-1101-ND	14.69	12.27	11.49	SF23080A-2083HBL
	Lead Wires	Sleeve	220/240	14/13.5	0.07/0.06	2300/2750	23/30	80 x 38 mm	340	259-1102-ND	11.91	9.95	9.32	SF23080A-2083HSL
	Lead Wires	Ball	115	13/12	0.12/0.11	2350/2850	30/37	92 x 25 mm	280	259-1103-ND	14.69	12.27	11.49	SF11592A-1092HBL
	Lead Wires	Sleeve	115	13/12	0.12/0.11	2250/2750	29/36	92 x 25 mm	280	259-1104-ND	11.82	9.87	9.25	SF11592A-1092HSL
2	Terminal	Ball	115	27/29	0.24/0.26	2800/3200	202/239	172 x 150 x 51 mm	908	259-1105-ND	60.66	35.01	32.78	A1175-HBT-TC
	Lead Wires	Ball	115	27/29	0.24/0.26	2800/3200	202/239	172 x 150 x 51 mm	908	259-1106-ND	60.66	35.01	32.78	A1175-HBL-TC
	Lead Wires	Ball	230	26/31	0.12/0.15	2800/3200	202/239	172 x 150 x 51 mm	908	259-1107-ND	60.66	35.01	32.78	A2175-HBL-TC
	Terminal	Ball	230	26/31	0.12/0.15	2800/3200	202/239	172 x 150 x 51 mm	908	259-1108-ND	60.66	35.01	32.78	A2175-HBT-TC
3	Terminal	Ball	230	56/60	0.24/0.27	2100/1900	850/770	254 x 89 mm	2000	259-1279-ND	103.22	79.43	74.38	A2259-HBT-TC
	Lead Wires	Ball	115	25/28	0.25/0.25	1400/1600	600/665	254 x 90 mm	2000	259-1109-ND	103.22	79.43	74.38	A1259-MBL-TC
	Terminal	Ball	115	25/28	0.25/0.25	1400/1600	600/665	254 x 90 mm	2000	259-1110-ND	103.22	79.43	74.38	A1259-MBT-TC
	Lead Wires	Ball	220/240	30/30	0.15/0.13	1400/1650	600/665	254 x 90 mm	2000	259-1111-ND	103.22	79.43	74.38	A2259-MBL-TC
	Terminal	Ball	220/240	30/30	0.15/0.13	1400/1650	600/665	254 x 90 mm	2000	259-1112-ND	103.22	79.43	74.38	A2259-MBT-TC

Please Note: Custom Fan Cable Assemblies available upon request.

Chip Cooler

Designed for the Intel 6700PXH 64-bit PCI Hub Chip Set.
Dimensions: 38 x 38 x 8 mm

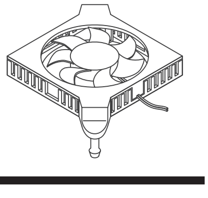

Voltage (VDC)	Operating Voltage (VDC)	Bearing Type	Motor No. of Poles	Current (A)	Input (W)	Speed (RPM)	Air Flow (CFM)	Static Pressure (@ 1" or 25.4mm – H20)	Noise Pressure (dBA)	Digi-Key Part No.	Price Each				Sunon Part No.
											1	10	25	50	
12	6-13.8	Ball	8	0.10	1.2	8800	6.0	0.16	32	259-1304-ND	16.58	12.76	11.95	11.24	GC123506BH-8DA.05.N.B515

NEW! DELTA

DC Axial Fans and Blowers

Broad product range covers axial fans from 25mm to 172mm and blowers from 30mm to 159mm.

Features: • Distinctive blade designs • Brushless • TS16949 accredited • ISO-9001 certified • Ball bearings • Lead wires

RoHS COMPLIANT

Fig. 1

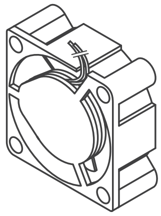

Fig. 2

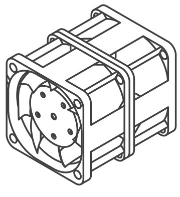

Fig. 3

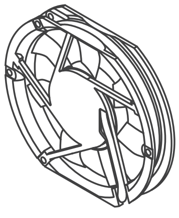

Fig. 4

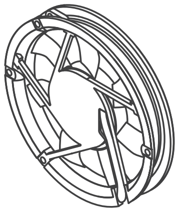

Fig. 5

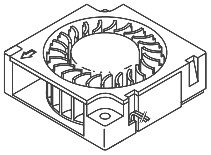

Fig. 6

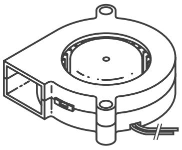

Fig.	Dimensions (mm)	Rated Voltage	Operating Voltage Range	Rated Current (mA)	Rated Input Power (W)	Speed (RPM)	CFM	Noise (Db)	Sensors	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Delta Part No.	Finger Guards	Price Each
									Axial Fans							
1	25 x 25 x 10	12	7.0 ~ 13.2	.080	0.96	13000	2.40	28.0	—	603-1000-ND	12.06	7.97	6.60	AFB02512HHA	CR181-ND	.63
1	35 x 35 x 10	12	9.5 ~ 13.8	.090	1.08	7000	5.50	22.0	—	603-1001-ND	12.06	7.97	6.60	AFB03512HA	CR378-ND	.63
1	40 x 40 x 10	12	7.0 ~ 13.8	.060	.72	5000	5.90	24.5	—	603-1002-ND	10.60	7.00	5.80	EFB0412MA	CR230-ND	.48
1	40 x 40 x 10	12	7.0 ~ 13.8	.080	.96	6000	6.92	28.5	—	603-1003-ND	10.60	7.00	5.80	EFB0412HA	CR230-ND	.48
1	40 x 40 x 10	12	7.0 ~ 13.8	.100	1.20	7000	8.09	33.0	—	603-1004-ND	10.60	7.00	5.80	EFB0412HHA	CR230-ND	.48
1	40 x 40 x 15	12	7.0 ~ 13.8	.130	1.56	8300	11.48	32.0	—	603-1005-ND	10.60	7.00	5.80	AFB0412HHB	CR230-ND	.48
1	40 x 40 x 15	12	7.0 ~ 13.8	.250	3.00	11000	14.83	41.5	—	603-1006-ND	10.60	7.00	5.80	AFB0412SHB	CR230-ND	.48
1	40 x 40 x 20	5	4.5 ~ 5.5	.250	1.25	7600	8.54	28.5	—	603-1007-ND	10.60	7.00	5.80	EFB0405HD	CR230-ND	.48
1	40 x 40 x 20	5	4.5 ~ 5.5	.320	1.60	9000	10.10	32.5	Tac	603-1008-ND	10.60	7.00	5.80	EFB0405VHD-F00	CR230-ND	.48
1	40 x 40 x 20	12	7.0 ~ 13.8	.080	0.96	7600	8.54	28.5	—	603-1009-ND	10.60	7.00	5.80	EFB0412HD	CR230-ND	.48
1	40 x 40 x 20	12	7.0 ~ 13.8	.120	1.44	9000	10.10	32.5	—	603-1010-ND	10.60	7.00	5.80	EFB0412VHD	CR230-ND	.48
1	40 x 40 x 20	24	14.0 ~ 27.6	.040	0.96	5000	5.54	22.0	—	603-1011-ND	10.60	7.00	5.80	EFB0424LD	CR230-ND	.48
1	40 x 40 x 28	12	4.5 ~ 13.8	.070	0.84	6500	10.59	32.1	Tac	603-1012-ND	12.46	8.23	6.82	FFB0412HN-F00	CR230-ND	.48
1	40 x 40 x 28	12	4.0 ~ 13.8	.500	6.00	13000	24.00	51.5	Tac	603-1013-ND	14.84	9.80	8.12	FFB0412SHN-F00	CR230-ND	.48
1	40 x 40 x 28	12	4.5 ~ 13.2	.160	1.92	9500	15.79	41.9	—	603-1014-ND	11.93	7.88	6.53	FFB0412VHN	CR230-ND	.48
1	40 x 40 x 28	12	4.5 ~ 13.2	.160	1.92	9500	15.79	41.9		603-1015-ND	12.32	8.14	6.75	FFB0412VHN-B	CR230-ND	.48
1	40 x 40 x 28	12	4.5 ~ 13.2	.160	1.92	9500	15.79	41.9	Tac	603-1016-ND	12.46	8.23	6.82	FFB0412VHN-F00	CR230-ND	.48
1	40 x 40 x 28	12	4.5 ~ 13.2	.160	1.92	9500	15.79	41.9	Locked Rotor	603-1017-ND	12.46	8.23	6.82	FFB0412VHN-R00	CR230-ND	.48
1	40 x 40 x 28	24	14.0 ~ 26.4	.100	2.40	9500	15.79	41.9	—	603-1018-ND	11.26	7.44	6.17	FFB0424VHN	CR230-ND	.48
2	40 x 40 x 48	12	7.0 ~ 13.2	.850	10.20	12000	24.00	60.0	Tac	603-1019-ND	26.63	17.59	14.58	GFB0412SHG-F00	CR230-ND	.48
2	40 x 40 x 56	12	7.0 ~ 13.2	1.25	15.00	15000	27.30	59.5	Tac	603-1020-ND	27.16	17.94	14.87	GFB0412EHS-F00	CR230-ND	.48
1	45 x 45 x 10	12	7.0 ~ 13.8	.110	1.32	5000	9.85	30.0	—	603-1021-ND	10.60	7.00	5.80	AFB04512MA	—	—
1	50 x 50 x 10	5	4.5 ~ 5.5	.130	0.65	4500	9.21	25.0	Tac	603-1022-ND	11.13	7.35	6.09	EFB0505MA-F00	CR379-ND	1.03
1	50 x 50 x 10	12	7.0 ~ 13.8	.100	1.20	5500	11.4	30.0	—	603-1023-ND	10.60	7.00	5.80	EFB0512HA	CR379-ND	1.03
1	50 x 50 x 15	12	7.0 ~ 13.8	.100	1.20	5600	14.13	32.0	—	603-1024-ND	10.60	7.00	5.80	AFB0512HB	CR379-ND	1.03
1	50 x 50 x 20	12	7.0 ~ 13.8	.160	1.92	7000	20.30	40.5	—	603-1025-ND	10.60	7.00	5.80	AFB0512VHD	CR379-ND	1.03
1	60 x 60 x 10	12	7.0 ~ 13.8	.180	2.16	4800	21.19	36.5	—	603-1026-ND	10.60	7.00	5.80	EFB0612HHA	CR221-ND	.57
1	60 x 60 x 15	5	4.0 ~ 6.0	.300	1.50	4000	15.36	32.0	—	603-1027-ND	10.60	7.00	5.80	AFB0605HB	CR221-ND	.57
1	60 x 60 x 15	24	14.0 ~ 27.6	.080	1.92	4000	15.36	32.0	—	603-1028-ND	10.60	7.00	5.80	AFB0624HB	CR221-ND	.57
1	60 x 60 x 20	12	7.0 ~ 13.8	.150	1.80	4400	18.36	31.0	—	603-1029-ND	10.60	7.00	5.80	AFB0612HHD	CR221-ND	.57
1	60 x 60 x 25.4	12	4.0 ~ 13.8	.080	0.96	3100	16.81	26.5	—	603-1030-ND	11.66	7.70	6.38	AFB0612L-A	CR221-ND	.57
1	60 x 60 x 25.4	12	4.0 ~ 13.8	.140	1.68	4250	23.38	34.0	—	603-1031-ND	11.66	7.70	6.38	AFB0612H-A	CR221-ND	.57
1	60 x 60 x 25.4	12	4.0 ~ 13.8	.170	2.04	5000	27.55	40.0	—	603-1032-ND	11.66	7.70	6.38	AFB0612HH-A	CR221-ND	.57
1	60 x 60 x 25.4	12	4.0 ~ 13.8	.270	3.24	6000	34.15	44.5	Tac	603-1033-ND	12.46	8.23	6.82	AFB0612SH-ABF00	CR221-ND	.57
1	60 x 60 x 25.4	12	4.0 ~ 13.8	.270	3.24	6000	34.15	44.5	Tac	603-1034-ND	12.19	8.05	6.67	AFB0612SH-AF00	CR221-ND	.57
1	60 x 60 x 25.4	12	4.0 ~ 13.8	.380	4.56	6800	38.35	46.5	Tac	603-1035-ND	11.66	7.70	6.38	AFB0612EH-ABF00	CR221-ND	.57
1	60 x 60 x 25.4	24	14.0 ~ 27.6	.090	2.16	4250	23.38	34.0	—	603-1036-ND	11.66	7.70	6.38	AFB0624H-A	CR221-ND	.57
1	60 x 60 x 25.4	24	14.0 ~ 27.6	.110	2.64	5000	27.55	40.0	—	603-1037-ND	11.66	7.70	6.38	AFB0624HH-A	CR221-ND	.57
1	60 x 60 x 38	12	4.5 ~ 13.8	.340	4.08	6000	36.73	46.5	—	603-1038-ND	14.31	9.45	7.83	FFB0612VHE	CR221-ND	.57
1	60 x 60 x 38	12	4.5 ~ 13.8	.550	6.60	7000	43.44	50.5	—	603-1039-ND	14.31	9.45	7.83	FFB0612SHE	CR221-ND	.57
1	60 x 60 x 38	12	4.5 ~ 13.8	.800	9.60	8000	50.15	54.5	—	603-1040-ND	14.31	9.45	7.83	FFB0612EHE	CR221-ND	.57
1	60 x 60 x 38	12	7.0 ~ 13.8	.680	8.16	9000	49.54	54.0	—	603-1041-ND	19.61	12.95	10.73	AFB0612VHE-A	CR221-ND	.57
2	60 x 60 x 50.8	12	7.0 ~ 13.8	.430	5.16	5000	32.14	50.5	—	603-1042-ND	28.89	19.08	15.81	GFB0612HHG	CR221-ND	.57
1	70 x 70 x 20	12	5.0 ~ 13.8	.250	3.00	4400	40.43	40.5	—	603-1043-ND	10.60	7.00	5.80	AFB0712HHD	—	—
1	70 x 70 x 25.4	12	5.0 ~ 12.6	.440	5.28	5500	51.97	47.5	—	603-1044-ND	10.60	7.00	5.80	AFB0712VH-A	—	—
1	70 x 70 x 25.4	12	5.0 ~ 13.8	.650	7.80	6300	61.05	50.5	—	603-1045-ND	15.24	10.07	8.34	AFB0712SH-A	—	—
1	70 x 70 x 25.4	24	14.0 ~ 26.4	.090	2.16	3100	28.85	31.5	—	603-1046-ND	11.13	7.35	6.09	AFB0724M-A	—	—
1	80 x 80 x 15	12	7.0 ~ 13.8	.190	2.28	3700	39.2	39.5	Tac	603-1047-ND	11.13	7.35	6.09	AFB0812VHB-F00	CR180-ND	.85
1	80 x 80 x 20	12	7.0 ~ 13.8	.220	2.64	4000	48.2	41.0	—	603-1048-ND	10.60	7.00	5.80	AFB0812SHD	CR180-ND	.85
1	80 x 80 x 25.4	5	4.5 ~ 5.5	.430	2.15	3000	35.31	31.0	—	603-1049-ND	11.93	7.88	6.53	AFB0805H	CR180-ND	.85
1	80 x 80 x 25.4	12	7.0 ~ 13.8	.160	1.92	3000	35.31	31.0	—	603-1050-ND	10.60	7.00	5.80	AFB0812H	CR180-ND	.85
1	80 x 80 x 25.4	12	7.0 ~ 13.8	.200	2.40	3250	37.43	34.0	—	603-1051-ND	10.60	7.00	5.80	AFB0812HH	CR180-ND	.85

(Continued)

NEW! DELTA DC Axial Fans and Blowers *(Cont.)*

Fig.	Dimensions (mm)	Rated Voltage	Operating Voltage Range	Rated Current (mA)	Rated Input Power (W)	Speed (RPM)	CFM	Noise (Db)	Sensors	Digi-Key Part No.	Price Each			Delta Part No.	Finger Guards	Price Each
											1	10	100			
1	80 x 80 x 25.4	12	7.0 ~ 13.8	.200	2.40	3250	37.43	34.0	Tac	603-1052-ND	11.13	7.35	6.09	AFB0812HH-F00	CR180-ND	.85
1	80 x 80 x 25.4	12	7.0 ~ 13.2	.260	3.12	3500	47.22	41.7	—	603-1053-ND	20.14	13.30	11.02	FFB0812HH	CR180-ND	.85
1	80 x 80 x 25.4	12	7.0 ~ 13.8	.340	4.08	4000	46.62	40.0	Tac	603-1054-ND	11.13	7.35	6.09	AFB0812SH-F00	CR180-ND	.85
1	80 x 80 x 25.4	12	7.0 ~ 13.2	.500	6.00	4500	67.02	48.6	—	603-1055-ND	14.31	9.45	7.83	FFB0812SH	CR180-ND	.85
1	80 x 80 x 38	12	7.0 ~ 13.8	.380	4.56	4200	57.21	44.5	—	603-1056-ND	14.31	9.45	7.83	FFB0812VHE	CR180-ND	.85
1	80 x 80 x 38	12	7.0 ~ 13.8	.580	6.96	4900	68.51	48.5	—	603-1057-ND	14.31	9.45	7.83	FFB0812SHE	CR180-ND	.85
1	80 x 80 x 38	12	7.0 ~ 13.8	.900	10.80	5700	80.16	52.5	Tac	603-1058-ND	14.84	9.80	8.12	FFB0812EHE-F00	CR180-ND	.85
1	80 x 80 x 38	12	7.0 ~ 13.2	1.15	13.80	6600	89.95	59.8	—	603-1059-ND	14.31	9.45	7.83	FFB0812GHE	CR180-ND	.85
1	80 x 80 x 38	12	7.0 ~ 13.2	1.50	18.00	7500	102.02	62.2	—	603-1060-ND	22.92	15.14	12.55	FFB0812UHE	CR180-ND	.85
1	80 x 80 x 38	12	7.0 ~ 13.2	2.75	33.00	9000	132.56	65.0	—	603-1061-ND	29.02	19.17	15.88	PFB0812DHE	CR180-ND	.85
2	80 x 80 x 50.8	12	7.0 ~ 13.2	.730	8.76	4200	68.58	53.0	Tac	603-1062-ND	29.55	19.52	16.17	GFB0812SHG-F00	CR180-ND	.85
1	92 x 92 x 20	24	14.0 ~ 27.6	.100	2.40	2700	54.6	35.0	—	603-1063-ND	10.60	7.00	5.80	AFB0924HD	CR220-ND	.68
1	92 x 92 x 25.4	12	7.0 ~ 13.8	.160	1.92	2850	51.21	34.0	—	603-1064-ND	10.60	7.00	5.80	AFB0912H	CR220-ND	.68
1	92 x 92 x 25.4	12	7.0 ~ 13.8	.250	3.00	3200	57.92	38.0	—	603-1065-ND	10.60	7.00	5.80	AFB0912HH	CR220-ND	.68
1	92 x 92 x 25.4	12	7.0 ~ 13.8	.600	7.20	3700	81.97	48.2	—	603-1066-ND	14.31	9.45	7.83	FFB0912VH	CR220-ND	.68
1	92 x 92 x 25.4	12	7.0 ~ 13.8	.400	4.80	3800	67.80	45.0	—	603-1067-ND	10.60	7.00	5.80	AFB0912VH	CR220-ND	.68
1	92 x 92 x 25.4	24	14.0 ~ 27.6	.080	1.92	2450	43.79	30.0	—	603-1068-ND	10.60	7.00	5.80	AFB0924M	CR220-ND	.68
1	92 x 92 x 25.4	24	14.0 ~ 27.6	.100	2.40	2850	51.21	34.0	—	603-1069-ND	10.60	7.00	5.80	AFB0924H	CR220-ND	.68
1	92 x 92 x 25.4	24	14.0 ~ 27.6	.220	5.28	3800	67.80	45.0	—	603-1070-ND	10.60	7.00	5.80	AFB0924VH	CR220-ND	.68
1	92 x 92 x 38	12	7.0 ~ 13.2	1.22	14.64	6000	129.31	60.5	—	603-1071-ND	32.33	21.35	17.69	PFB0912GHE	CR220-ND	.68
1	92 x 92 x 38	24	14.0 ~ 27.6	.280	6.72	3800	85.46	47.5	—	603-1072-ND	15.11	9.98	8.27	FFB0924VHE	CR220-ND	.68
1	92 x 92 x 38	48	28.0 ~ 53.0	.200	9.60	4400	100.29	52.5	—	603-1073-ND	28.09	18.55	15.37	FFB0948SHE	CR220-ND	.68
1	100 x 100 x 38	12	7.0 ~ 12.6	2.20	26.40	5000	143.09	62.0	—	603-1074-ND	28.09	18.55	15.37	FFB1012EHE	—	—
1	120 x 120 x 25.4	12	7.0 ~ 13.8	.230	2.76	2500	82.67	38.5	—	603-1075-ND	13.65	9.02	7.47	AFB1212H	CR210-ND	1.79
1	120 x 120 x 25.4	12	7.0 ~ 13.8	.330	3.96	2800	95.14	41.5	—	603-1076-ND	13.65	9.02	7.47	AFB1212HH	CR210-ND	1.79
1	120 x 120 x 25.4	24	14.0 ~ 27.6	.280	6.72	3400	113.11	46.5	—	603-1077-ND	14.44	9.54	7.91	AFB1224SH	CR210-ND	1.79
1	120 x 120 x 38	12	4.0 ~ 13.2	.600	7.20	3200	129.96	48.0	Tac	603-1078-ND	16.30	10.77	8.92	AFB1212VHE-F00	CR210-ND	1.79
1	120 x 120 x 38	12	4.0 ~ 13.2	.480	5.76	3200	123.95	47.5	—	603-1079-ND	15.77	10.42	8.63	EFB1212VHE	CR210-ND	1.79
1	120 x 120 x 38	12	7.0 ~ 13.2	1.00	12.00	3200	151.85	53.0	—	603-1080-ND	28.09	18.55	15.37	FFB1212VHE	CR210-ND	1.79
1	120 x 120 x 38	12	7.0 ~ 13.2	1.50	18.00	3600	170.92	56.5	Tac	603-1081-ND	29.28	19.34	16.03	FFB1212SHE-F00	CR210-ND	1.79
1	120 x 120 x 38	12	4.0 ~ 13.2	1.05	12.60	3700	151.85	53.0	—	603-1082-ND	15.77	10.42	8.63	AFB1212SHE	CR210-ND	1.79
1	120 x 120 x 38	12	7.0 ~ 13.2	2.00	24.00	4000	190.00	59.0	Tac	603-1083-ND	28.62	18.90	15.66	FFB1212EHE-F00	CR210-ND	1.79
1	120 x 120 x 38	12	8.0 ~ 13.2	2.70	32.40	4800	217.80	64.0	—	603-1084-ND	38.16	25.20	20.88	PFB1212GHE	CR210-ND	1.79
1	120 x 120 x 38	24	7.0 ~ 27.6	.240	5.76	2600	105.94	41.0	—	603-1085-ND	16.56	10.94	9.07	AFB1224HE	CR210-ND	1.79
1	120 x 120 x 38	24	7.0 ~ 27.6	.380	9.12	3200	129.96	48.0	—	603-1086-ND	16.56	10.94	9.07	AFB1224VHE	CR210-ND	1.79
1	120 x 120 x 38	24	7.0 ~ 27.6	.440	10.56	3700	141.96	52.5	—	603-1087-ND	16.56	10.94	9.07	EFB1224SHE	CR210-ND	1.79
1	120 x 120 x 38	24	14.0 ~ 26.4	1.00	24.00	4000	190.00	59.0	—	603-1088-ND	29.68	19.60	16.24	FFB1224EHE	CR210-ND	1.79
1	120 x 120 x 38	48	28.0 ~ 53.0	.500	24.00	4000	190.00	59.0	Tac	603-1089-ND	34.32	22.67	18.78	FFB1248EHE-F00	CR210-ND	1.79
1	120 x 120 x 38	48	32.0 ~ 80.0	.910	43.68	5300	223.22	68.0	—	603-1090-ND	73.54	48.57	40.24	FHB1248UHE	CR210-ND	1.79
2	120 x 120 x 50.8	12	7.0 ~ 13.2	2.82	33.84	3400	184.45	65.0	—	603-1091-ND	57.64	38.07	31.54	GFB1212VHG	CR210-ND	1.79
2	120 x 120 x 50.8	24	14.0 ~ 26.4	1.80	43.20	3700	203.41	67.6	—	603-1092-ND	57.64	38.07	31.54	GFB1224SHG	CR210-ND	1.79
2	120 x 120 x 76.2	12	7.0 ~ 13.2	2.65	31.80	3550	220.29	59.0	—	603-1093-ND	54.99	36.32	30.09	GFB1212VHW	CR210-ND	1.79
1	127 x 127 x 38	12	7.0 ~ 13.2	1.85	22.20	3450	180.00	56.5	—	603-1094-ND	37.76	24.94	20.67	FFB1312SHE	CR200-ND	2.03
1	127 x 127 x 38	12	8.5 ~ 13.2	2.74	32.88	3850	200.02	59.5	—	603-1095-ND	36.97	24.42	20.23	FFB1312EHE	CR200-ND	2.03
1	127 x 127 x 38	24	14.0 ~ 26.4	.840	20.16	3450	180.00	56.5	—	603-1096-ND	39.09	25.82	21.39	FFB1324SHE-B	CR200-ND	2.03
3	140 x 140 x 50.8	48	28.0 ~ 53.0	.770	36.96	3600	273.09	61.7	Tac	603-1097-ND	68.77	45.42	37.63	FFB1448SHG-F00	CR196-ND	3.06
3	172 x 150 x 25.4	12	6.0 ~ 14.0	.980	11.76	3000	202.54	52.0	—	603-1126-ND	54.99	36.32	30.09	AFB1512H-A	CR196-ND	3.06
3	172 x 150 x 25.4	12	6.0 ~ 14.0	1.17	14.04	3200	214.85	53.5	—	603-1099-ND	76.19	50.32	41.69	AFB1512HH-A	CR196-ND	3.06
3	172 x 150 x 25.4	24	12.0 ~ 30.0	.310	7.44	2400	160.77	46.0	—	603-1125-ND	54.99	36.32	30.09	AFB1524L-A	CR196-ND	3.06
3	172 x 150 x 25.4	48	32.0 ~ 80.0	.520	24.96	4000	271.05	61.0	—	603-1101-ND	76.19	50.32	41.69	AHB1548EH	CR196-ND	3.06
3	172 x 150 x 50.8	24	12.0 ~ 28.0	.560	13.44	3350	251.79	55.0	—	603-1102-ND	65.59	43.32	35.89	EFB1524HG	CR196-ND	3.06
3	172 x 150 x 50.8	24	12.0 ~ 28.0	.970	23.28	4000	302.29	60.0	—	603-1103-ND	62.94	41.57	34.44	EFB1524VHG	CR196-ND	3.06
3	172 x 150 x 50.8	48	24.0 ~ 60.0	.310	14.88	3350	251.79	55.0	Tac	603-1104-ND	66.12	43.67	36.18	EFB1548HG-F00	CR196-ND	3.06
4	172 x 25.4	12	6.0 ~ 14.0	.980	11.76	3000	202.54	52.0	—	603-1105-ND	54.99	36.32	30.09	AFB1712H-A	CR206-ND	2.72
4	172 x 25.4	12	6.0 ~ 14.0	1.17	14.04	3200	214.85	53.5	—	603-1106-ND	76.19	50.32	41.69	AFB1712HH-A	CR206-ND	2.72
4	172 x 25.4	24	12.0 ~ 30.0	.310	7.44	2400	160.77	46.0	—	603-1107-ND	54.99	36.32	30.09	AFB1724L-A	CR206-ND	2.72
4	172 x 25.4	48	24.0 ~ 60.0	.270	12.96	3000	202.54	52.0	—	603-1127-ND	65.59	43.32	35.89	AFB1748H-A	CR206-ND	2.72
4	172 x 50.8	12	8.0 ~ 14.0	1.79	21.48	3700	279.69	55.0	—	603-1109-ND	60.29	39.82	32.99	EFB1712HHG	CR206-ND	2.72
4	172 x 50.8	24	12.0 ~ 28.0	1.17	28.08	4300	325.00	59.0	—	603-1110-ND	62.94	41.57	34.44	EFB1724SHG	CR206-ND	2.72
4	172 x 50.8	48	26.0 ~ 54.0	1.90	91.20	4600	432.77	72.0	—	603-1111-ND	70.89	46.82	38.79	FFB1748VHG	CR206-ND	2.72
Blowers																
5	30 x 30 x 10	12	7.0 ~ 13.2	.070	0.84	7500	1.45	29.0	—	603-1112-ND	12.06	7.97	6.60	BFB0312HA	—	—
5	40 x 40 x 10	5	4.0 ~ 6.0	.220	1.10	8500	3.00	34.5	—	603-1113-ND	12.85	8.49	7.04	BFB0405HHA-A	—	—
6	51 x 51 x 15	12	10.0 ~ 13.8	.160	1.92	5500	3.88	38.0	Locked Rotor	603-1114-ND	13.38	8.84	7.33	BFB0512H-R00	—	—
6	51 x 51 x 15	12	10.0 ~ 13.8	.210	2.52	6500	4.59	45.0	Tac	603-1115-ND	13.38	8.84	7.33	BFB0512HH-F00	—	—
6	51 x 51 x 15	24	14.0 ~ 27.6	.110	2.64	6500	4.59	45.0	—	603-1116-ND	12.85	8.49	7.04	BFB0524HH	—	—
6	60 x 60 x 25	12	5.0 ~ 13.8	.180	2.16	3200	6.71	34.0	—	603-1117-ND	12.85	8.49	7.04	BFB0612H	—	—
6	75 x 75 x 30	12	7.0 ~ 13.8	.220	2.64	2900	11.30	38.0	—	603-1118-ND	16.83	11.12	9.21	BFB0712H	—	—
6	97 x 94 x 33	12	4.0 ~ 13.8	.800	9.60	3600	25.43	52.0	Tac	603-1119-ND	20.41	13.48	11.17	BFB1012H-F00	—	—
6	97 x 94 x 33	24	7.0 ~ 27.6	.400	9.60	3600	25.43	52.0	Tac	603-1120-ND	20.41	13.48	11.17	BFB1024H-F00	—	—
6	120 x 120 x 32	12	4.0 ~ 13.8	.400	4.80	2100	24.70	47.0	Tac	603-1121-ND	22.66	14.97	12.40	BFB1212L-F00	—	—
6	120 x 120 x 32	48	28.0 ~ 56.0	.220	10.56	2800	35.31	54.0	—	603-1122-ND	23.45	15.49	12.84	BFB1248HH	—	—
6	159 x 165 x 40	12	7.0 ~ 13.2	1.43	17.16	2200	61.80	56.5	—	603-1123-ND	60.29	39.82	32.99	BFB1612H	—	—
6	159 x 165 x 40	24	14.0 ~ 26.4	.560	13.44	2000	55.09	54.5	—	603-1124-ND	60.29	39.82	32.99	BFB1624M	—	—

COMAIR ROTRON

DC Brushless and Tachometer Fans

DC Fans - Motor:

Brushless electronic commutation provided by dependable solid-state circuitry. 100% dielectric tested at 600 VAC/1 second/500 microamps maximum leakage. Polarity protected.

Fig. 1

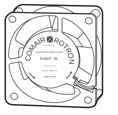

Fig. 2

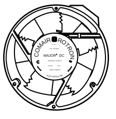

Fig. 3

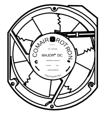

Fig. 4

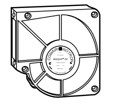

Fig. 5

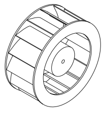

DC and Tachometer Output DC Fans

Model	Venturi	Propeller	EMI (See Right)
Flight LT Series	PPS Plastic, black glass-filled, meets UL94V-0	PBT Plastic, black reinforced glass, meets UL94V-0	A
Flight II Series	PBT with glass, black, meets UL94V-0	PBT, black, meets UL94V-0	B
Sprint	Glass-filled nylon, black, meets UL94V-0	Injection molded polypropylene, black, meets UL94V-0	B
Sprite	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	C
Muffin	Glass-filled nylon, black, meets UL94V-0	Injection molded polypropylene, black, meets UL94V-0	—
Muffin XL	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	C
Whisper XL	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	C
Muffin XP	Plastic, Black, UL94V-0	Plastic, Black, UL94V-0	—
Diplomat	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	B
Galaxy	One-piece die-cast zinc alloy, black	Polycarbonate, black, meets UL94V-0	C
Patriot Quiet	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	B
Major Quiet	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	C
Falcon	One-piece die-cast aluminum	Polycarbonate, black, meets UL94V-0	B
Maltese	One-piece die-cast aluminum	Polycarbonate, black, meets UL94V-0	B
Tarzan	Plastic, black, meets UL94V-0	Injection molded of flame retardant polycarbonate, black, meets UL94V-0	B
Caravel	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	B
Whiffet Blower	Glass-filled polyester, black, meets UL94V-0	Polyester, black, meets UL94V-0	B
Biscuit Blower	Mineral-filled nylon, black, meets UL94V-0	Polypropylene, black, meets UL94V-0	—
Viking Blower	Glass-filled polyester, black, meets UL94V-0	Polypropylene, black, meets UL94V-0	—
Spinnaker	One-piece die-cast zinc alloy, black	Flame retardant polycarbonate, black, meets UL94V-0	B

EMI

A Meets EMI standards per FCC part 15, subpart J of Docket 20780, Class A or B radiated and conducted emissions.

B Meets EMI standards per FCC part 15, subpart J of Docket 20780, Class A or B radiated and conducted emissions. Meets EMI standards per VDE specification 0871/6.78 for category A and B requirements.

C Per MIL STD 461, Meets EMI standards per FCC part 15, subpart J of Docket 20780, Class A or B radiated and conducted emissions. Meets EMI standards per VDE specification 0871/6.78 for category A and B requirements.

APPROVALS

1. UL yellow card recognized, file No. E31293.
2. CSA certified, file No. L52898.
3. CSA certified, file No. LR52898.
4. CSA certified, file No. UL E31293.
5. CSA certified, file No. LR701980.
6. CSA certified, file No. LR70190.
7. TUV certified, file No. EN60950.
8. TUV approved to IEC 950, VDE 0730; License R97229.
9. TUV approved to IEC 950, VDE 0730; License R97152 and R97188.
10. Complies with FCC Part 15 Class B of EN55022 - 1994 Class B Conducted Emissions.
11. Complies with FCC Part 15 Class B of EN55022 - 1995 Class B Radiated Emissions.
12. Environmental Protection Type 2

Fig.	Model	Connection Type	Bearing	Voltage Nom.	Voltage Range	Power (Watts)	Running Current	RPM	CFM	Dimensions (mm)	Life(F) Expectancy	Approvals (See Above)	Digi-Key Part No.	Price Each 1	Price Each 25	Comair Model No.	Finger Guards	Price Each
Brushless DC Fans																		
1	Flight LT 25,40,52	Lead Wires	Ball	12	6/14	0.8	70mA	10000	1.40	25x10	50,000 hrs. @ 25°C	1, 5	CR011-ND	17.08	14.73	CR0212LB-G50	—	—
		Lead Wires	Ball	12	6/14	1.2	100mA	6000	6.80	40x10	50,000 hrs. @ 25°C	1, 5	CR015-ND	11.89	10.25	CR0412HB-G70	CR230-ND	.48
		Lead Wires	Ball	12	6/14	1.4	130mA	8500	10.80	40x20	50,000 hrs. @ 25°C	1, 5	CR016-ND	11.89	10.25	CR0412HB-C50	CR230-ND	.48
		Lead Wires	Ball	24	21.6/26.4	1.8	75mA	8500	10.8	40x20	50,000 hrs. @ 25°C	1, 5	CR360-ND	11.89	10.25	CR0424HB-C50	CR230-ND	.48
		Lead Wires	Ball	12	6/14	1.2	100mA	4600	12.00	52x15	50,000 hrs. @ 25°C	1, 5	CR022-ND	12.33	10.63	CR0512HB-D71	—	—
	Flight II 60	Lead Wires	Ball	12	6/14	2.5	210mA	5000	18	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR001-ND	33.21	26.34	FS12B3	CR221-ND	.57
		Lead Wires	Ball	24	12/28	1.9	80mA	5000	18	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR002-ND	33.21	26.34	FS24B3	CR221-ND	.57
		Lead Wires	Ball	12	6/14	1.0	84mA	3500	12	60x25	60,000 hrs. @ 40°C	1, 2, 7	CR003-ND	33.21	26.34	FS12H3	CR221-ND	.57
		Lead Wires	Ball	24	12/28	1.1	46mA	3500	12	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR004-ND	34.08	27.03	FS24H3	CR221-ND	.57
		Lead Wires	Ball	5	4.5/5.5	2.0	400mA	5000	18	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR346-ND	23.67	20.39	FS05B3	CR221-ND	.57
		Lead Wires	Ball	5	4.5/5.5	1.0	190mA	3500	12	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR347-ND	21.15	18.22	FS05H3	CR221-ND	.57
		Lead Wires	Ball	48	24/56	4.0	80mA	5930	23	60x25	60,000 hrs. @ 25°C	1, 2, 7	CR348-ND	26.55	22.87	FS48K3	CR221-ND	.57
	Flight LT 60	Lead Wires	Ball	12	6/14	1.6	130mA	4500	16.60	60x15	50,000 hrs. @ 25°C	1, 6	CR023-ND	12.73	10.98	CR0612HB-D71GL	CR221-ND	.57
		Lead Wires	Ball	12	6/14	2.8	230mA	4500	23.20	60x25	50,000 hrs. @ 25°C	1, 6	CR024-ND	12.73	10.98	CR0612HB-A70GL	CR221-ND	.57
		Lead Wires	Ball	24	12/28	3.6	150mA	4500	23.20	60x25	50,000 hrs. @ 25°C	1, 6	CR026-ND	12.73	10.98	CR0624HB-A70GL	CR221-ND	.57
	Flight II 80	Lead Wires	Ball	12	6/14	2.0	165mA	3600	37	80x25	60,000 hrs. @ 25°C	1, 2, 7	CR005-ND	33.79	26.80	FE12B3	CR180-ND	.85
		Lead Wires	Ball	24	12/28	2.0	87mA	3600	37	80x25	60,000 hrs. @ 25°C	1, 2, 7	CR006-ND	33.79	26.80	FE24B3	CR180-ND	.85
		Lead Wires	Ball	12	6/14	1.0	89mA	2700	27	80x25	60,000 hrs. @ 25°C	1, 2, 7	CR007-ND	34.80	27.60	FE12H3	CR180-ND	.85
		Lead Wires	Ball	24	12/28	1.2	48mA	2700	27	80x25	60,000 hrs. @ 25°C	1, 2, 7	CR008-ND	34.80	27.60	FE24H3	CR180-ND	.85
	Flight LT 80	Lead Wires	Ball	12	6/14	3.0	250mA	3010	38.60	80x25	50,000 hrs. @ 25°C	1, 6	CR030-ND	13.08	11.28	CR0812HB-A70GL	CR180-ND	.85
		Lead Wires	Ball	12	6/14	1.8	150mA	2440	31.40	80x25	50,000 hrs. @ 25°C	1, 6	CR031-ND	13.08	11.28	CR0812MB-A70GL	CR180-ND	.85
		Lead Wires	Ball	24	12/28	3.8	160mA	3010	38.60	80x25	50,000 hrs. @ 25°C	1, 6	CR032-ND	13.08	11.28	CR0824HB-A70GL	CR180-ND	.85
	Sprint	Lead Wires	Sleeve	12	6/14	3.4	280mA	3400	33	80x32	55,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR009-ND	17.55	15.12	ST12A3	CR180-ND	.85
		Lead Wires	Sleeve	24	12/28	3.3	140mA	3400	33	80x32	55,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR012-ND	17.01	14.65	ST24A3	CR180-ND	.85
		Lead Wires	Ball	12	6/14	3.4	280mA	3400	33	80x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR014-ND	19.35	16.67	ST12B3	CR180-ND	.85
		Lead Wires	Ball	24	12/28	3.3	140mA	3400	33	80x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR017-ND	19.35	16.67	ST24B3	CR180-ND	.85
		Lead Wires	Ball	5	4.5/5.5	2.3	460mA	3400	33	80x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR353-ND	27.45	23.64	ST05B3	CR180-ND	.85
		Lead Wires	Ball	12	6/14	6.2	520mA	4700	45	80x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR354-ND	24.75	21.32	ST12Z3	CR180-ND	.85
	Sprite	Lead Wires	Ball	12	6/14	3.0	250mA	3500	35	80x42	80,000 hrs. @ 40°C	1, 3, 7	CR019-ND	26.69	23.26	SD12B1	CR180-ND	.85
		Terminal	Ball	12	6/14	3.0	250mA	3500	35	80x42	80,000 hrs. @ 40°C	1, 3, 7	CR027-ND	27.65	24.10	SD12B2	CR180-ND	.85
		Lead Wires	Ball	24	12/28	3.0	130mA	3500	35	80x42	83,000 hrs. @ 40°C	1, 3, 7	CR020-ND	27.04	23.57	SD24B1	CR180-ND	.85
		Lead Wires	Ball	48	24/56	3.0	60mA	3500	35	80x42	83,000 hrs. @ 40°C	1, 3, 7	CR021-ND	27.65	24.10	SD48B1	CR180-ND	.85
		Terminal	Ball	48	24/56	3.0	60mA	3500	35	80x42	83,000 hrs. @ 40°C	1, 3, 7	CR236-ND	27.65	24.10	SD48B2	CR180-ND	.85
	Flight II 90	Lead Wires	Ball	12	6/14	2.4	202mA	2800	45	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR034-ND	36.98	29.33	FN12B3	CR220-ND	.68
		Lead Wires	Ball	12	6/14	1.5	124mA	2350	37	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR036-ND	36.98	29.33	FN12C3	CR220-ND	.68
		Lead Wires	Ball	24	12/28	2.4	100mA	2800	45	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR237-ND	24.80	20.46	FN24B3	CR220-ND	.68
		Lead Wires	Ball	12	6/14	5.1	423mA	3850	60	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR349-ND	24.30	20.93	FN12K3	CR220-ND	.68
		Lead Wires	Ball	24	12/28	5.5	230mA	3800	60	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR359-ND	24.30	20.93	FN24K3	CR220-ND	.68
		Lead Wires	Ball	48	24/56	2.9	65mA	2800	45	92x25	60,000 hrs. @ 25°C	1, 2, 7, 10, 11	CR350-ND	22.32	19.22	FN48B3	CR220-ND	.68
	Flight LT 90	Lead Wires	Ball	12	6/14	4.3	360mA	3000	48.40	92x25	50,000 hrs. @ 25°C	1, 5	CR035-ND	13.60	11.73	CR0912HB-A70GL	CR220-ND	.68
		Lead Wires	Ball	24	12/28	4.8	200mA	3000	48.40	92x25	50,000 hrs. @ 25°C	1, 5	CR037-ND	13.60	11.73	CR0924HB-A70GL	CR220-ND	.68
	Flight II 120	Lead Wires	Ball	12	6/14	4.3	360mA	2950	86	120x25	60,000 hrs. @ 25°C	1, 2, 7	CR038-ND	36.98	29.33	FT12B3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	4.3	180mA	2950	86	120x25	60,000 hrs. @ 25°C	1, 2, 7	CR039-ND	35.35	28.04	FT24B3	CR210-ND	1.79
		Lead Wires	Ball	12	6/14	1.6	130mA	2000	61	120x25	60,000 hrs. @ 25°C	1, 2, 7	CR040-ND	35.09	27.83	FT12M3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	1.9	80mA	2000	61	120x25	60,000 hrs. @ 25°C	1, 2, 7	CR041-ND	35.09	27.83	FT24M3	CR210-ND	1.79
	Muffin	Lead Wires	Sleeve	12	6/14	7.9	660mA	3700	102	120x32	50,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR042-ND	18.72	16.12	MC12A3	CR210-ND	1.79
		Lead Wires	Sleeve	24	12/28	6.7	280mA	3700	102	120x32	50,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR046-ND	18.72	16.12	MC24A3	CR210-ND	1.79
		Lead Wires	Sleeve	12	6/14	2.2	180mA	2150	58	120x32	50,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR043-ND	19.35	16.67	MC12E3	CR210-ND	1.79
		Lead Wires	Sleeve	24	12/28	2.1	85mA	2150	58	120x32	50,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR047-ND	19.35	16.67	MC24E3	CR210-ND	1.79
		Lead Wires	Ball	12	6/14	7.9	660mA	3700	102	120x32	75,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR051-ND	21.33	18.37	MC12B3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	5.5	230mA	3700	102	120x32	75,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR055-ND	21.33	18.37	MC24B3	CR210-ND	1.79
		Lead Wires	Ball	48	22/56	8.4	180mA	3700	102	120x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR240-ND	21.33	18.37	MC48B3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	4.8	200mA	2850	80	120x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR241-ND	21.33	18.37	MC24H3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	10.6	440mA	4200	118	120x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR351-ND	23.13	19.92	MC24K3	CR210-ND	1.79
		Lead Wires	Ball	48	24/56	10.6	220mA	4100	118	120x32	78,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR352-ND	23.13	19.92	MC48K3	CR210-ND	1.79

Please Note: Custom Fan Cable Assemblies available upon request.

(Continued)

DC Brushless and Tachometer Fans *(Cont.)*

Fig.	Model	Connection Type	Bearing	Voltage		Power (Watts)	Running Current	RPM	CFM	Dimensions (mm)	Life(F) Expectancy	Approvals (See Above)	Digi-Key Part No.	Price Each		Comair Model No.	Finger Guards	Price Each
				Nom.	Range									1	25			
1	Muffin XL	Lead Wires	Ball	24	12/28	6.0	250mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR070-ND†	43.51	39.51	MD24B1	CR210-ND	1.79
		Terminal	Ball	12	6/14	6.0	500mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR072-ND†	43.51	39.51	MD12B2	CR210-ND	1.79
		Terminal	Ball	24	12/28	6.0	250mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR073-ND†	43.51	39.51	MD24B2	CR210-ND	1.79
		Terminal	Ball	48	24/56	6.0	125mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR074-ND†	43.51	39.51	MD48B2	CR210-ND	1.79
		Lead Wires	Ball	12	6/14	6.0	500mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR069-ND†	43.51	39.51	MD12B1	CR210-ND	1.79
		Lead Wires	Ball	48	24/56	6.0	125mA	3100	110	119x39	83,000 hrs. @ 40°C	1, 3, 7, 10, 11	CR071-ND†	43.51	39.51	MD48B1	CR210-ND	1.79
	Whisper XL	Lead Wires	Ball	12	6/14	2.4	200mA	2230	75	119x39	83,000 hrs. @ 40°C	1, 3, 7	CR262-ND†	45.50	37.54	WD12C3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	2.4	100mA	2230	75	119x39	83,000 hrs. @ 40°C	1, 3, 7	CR263-ND†	45.50	37.54	WD24C3	CR210-ND	1.79
		Lead WIres	Ball	12	6/14	1.2	100mA	1635	55	119x39	83,000 hrs. @ 40°C	1, 3, 7	CR264-ND†	45.50	37.54	WD12M3	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	1.2	52mA	1635	55	119x39	83,000 hrs. @ 40°C	1, 3, 7	CR265-ND†	46.50	38.37	WD24M3	CR210-ND	1.79
	Muffin XP	Lead WIres	Sleeve	24	12/28	7.0	290mA	3000	110	120x38	78,000 hrs. @ 40°C	10, 11	CR342-ND	24.03	20.70	MS24B3	CR210-ND	1.79
		Lead WIres	Sleeve	48	24/56	7.4	150mA	3000	110	120x38	78,000 hrs. @ 40°C	10, 11	CR343-ND	24.03	20.70	MS48B3	CR210-ND	1.79
5	Diplomat	Lead Wires	Ball	24	12/28	26.0	1.1A	3400	170	133x91	35,000 hrs. @ 50°C	1, 2, 7	CR289-ND	71.82	61.85	DDF24B1	CR210-ND	1.79
1	Galaxy	Terminal	Ball	12	6/14	15.0	1250mA	3250	150	127x38	82,500 hrs. @ 50°C	1, 3, 7	CR266-ND†	51.00	42.08	GL12B4	CR200-ND	2.03
		Terminal	Ball	24	12/28	15.0	625mA	3250	150	127x38	82,500 hrs. @ 50°C	1, 3, 7	CR267-ND†	53.60	44.22	GL24B4	CR200-ND	2.03
		Terminal	Ball	48	24/56	15.0	310mA	3250	150	127x38	82,000 hrs. @ 50°C	1, 3, 7	CR268-ND†	53.60	44.22	GL48B4	CR200-ND	2.03
2	Patriot	Terminal	Ball	24	12/28	20.3	850mA	3500	235	172x51	62,000 hrs. @ 50°C	1, 3, 7	CR242-ND†	70.00	57.75	PQ24B4	CR206-ND	2.72
		Terminal	Ball	48	24/56	20.1	420mA	3500	235	172x51	62,000 hrs. @ 50°C	1, 3, 7	CR243-ND†	70.00	57.75	PQ48B4	CR206-ND	2.72
3	Major Quiet	Terminal	Ball	24	12/28	20.3	850mA	3500	235	172x150x51	62,000 hrs. @ 50°C	1, 3, 7	CR291-ND†	68.13	58.67	JQ24B4	CR196-ND	3.06
		Terminal	Ball	48	24/56	20.1	420mA	3500	235	172x150x51	62,000 hrs. @ 50°C	1, 3, 7	CR292-ND†	68.13	58.67	JQ48B4	CR196-ND	3.06
		Terminal	Ball	12	6/14	14.6	1215mA	3000	200	172x150x51	62,000 hrs. @ 50°C	1, 3, 7	CR293-ND†	69.75	60.07	JQ12C4	CR196-ND	3.06
2	Falcon	Lead Wires	Ball	24	12/28	41.0	1.48A	3400	300	172x55	62,000 hrs. @ 50°C	1, 2, 7	CR295-ND†	95.31	82.08	FD24B3	CR196-ND	3.06
3	Maltese	Lead Wires	Ball	12	6/14	39.6	3A	3400	300	172x150x55	62,000 hrs. @ 50°C	1, 2, 7	CR297-ND†	95.31	82.08	MT12B3	CR196-ND	3.06
		Lead Wires	Ball	24	12/28	41.0	1.48A	3400	300	172x150x55	62,000 hrs. @ 50°C	1, 2, 7	CR298-ND†	95.31	82.08	MT24B3	CR196-ND	3.06
		Lead Wires	Ball	48	24/56	34.5	.72A	3400	300	172x150x55	62,000 hrs. @ 50°C	1, 2, 7	CR299-ND†	95.31	82.08	MT48B3	CR196-ND	3.06
2	Caravel	Lead Wires	Ball	24	12/28	29.0	1.2A	1650	550	254x89	60,000 hrs. @ 50°C	1, 2, 7	CR302-ND†	86.94	74.87	CD24B3	CR182-ND	1.89
		Lead Wires	Ball	48	24/56	30.2	.63A	1650	550	254x89	60,000 hrs. @ 50°C	1, 2, 7	CR303-ND†	89.01	76.65	CD48B3	CR182-ND	1.89
4	Whiffet Blower	Lead Wires	Ball	12	6/14	5.1	420mA	4050	15	80x32	80,000 hrs. @ 25°C	1, 4, 7	CR304-ND	34.02	29.30	WT12B3	—	—
		Lead Wires	Ball	24	12/28	5.1	200mA	4050	15	80x32	80,000 hrs. @ 25°C	1, 4, 7	CR305-ND	34.02	29.30	WT24B3	—	—
	Biscuit Blower	Lead Wires	Sleeve	12	9/14	11.0	900mA	3050	25	121x31	50,000 hrs. @ 40°C	1, 3, 7	CR085-ND	35.50	29.29	BD12A3	—	—
		Lead Wires	Sleeve	24	18/28	11.0	480mA	3050	25	121x31	50,000 hrs. @ 40°C	1, 3, 7	CR086-ND	35.50	29.29	BD24A3	—	—
		Lead Wires	Ball	12	6/14	11.0	900mA	3050	25	121x31	78,000 hrs. @ 40°C	1, 3, 7	CR247-ND	41.00	33.83	BD12B3	—	—
		Lead Wires	Ball	24	12/28	11.0	480mA	3050	25	121x31	78,000 hrs. @ 40°C	1, 3, 7	CR248-ND	39.90	32.92	BD24B3	—	—
	Viking	Lead Wires	Ball	12	6/14	20.0	1670mA	4000	33	127x41	83,000 hrs. @ 40°C	—	CR306-ND	34.65	29.84	VK12B3	—	—
		Lead Wires	Ball	24	12/28	20.0	830mA	4000	33	127x41	83,000 hrs. @ 40°C	—	CR307-ND	33.57	28.91	VK24B3	—	—
	Spinnaker	Lead Wires	Ball	24	12/28	30.0	1300mA	2500	60	162x41	62,000 hrs. @ 50°C	1, 3, 7	CR249-ND	73.70	60.81	SPD24B1	—	—
Tachometer Output DC Fans																		
1	Muffin	Lead Wires	Ball	12	6/14	7.9	660mA	3700	102	120x32	78,000 hrs. @ 40°C	10, 11	CR339-ND	22.05	18.99	MC12B7	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	5.5	230mA	3700	102	120x32	78,000 hrs. @ 40°C	10, 11	CR340-ND	24.39	21.01	MC24B7	CR210-ND	1.79
	Muffin XL	Lead Wires	Ball	12	6/14	6.0	500mA	3100	110	119x39	83,000 hrs. @ 40°C	10, 11	CR344-ND†	39.15	33.72	MD12B5	CR210-ND	1.79
		Lead Wires	Ball	24	12/28	6.0	250mA	3100	110	119x39	83,000 hrs. @ 40°C	10, 11	CR345-ND†	38.07	32.79	MD24B5	CR210-ND	1.79

† Feathered Edge for lower noise.

Please Note: Custom Fan Cable Assemblies available upon request.

Brushless DC Motorized Impellers Diplomat Series

Features: • 12" Leadwires • TTL Tach Output • Ball Bearings

AWG	Model	Voltage Nom. (VDC)	Power (Watts)	Running Current	RPM	CFM	Dimensions (mm)	Noise (dBA)	Digi-Key Part No.	Price Each		Comair Part No.
										1	25	
22	DD523624K1A	24	32	1.330A	3900	200	133 x 91	65.9	CR382-ND	93.60	80.60	039833
	DD523648K1A	48	31	.675A	3900	200	133 x 91	65.9	CR383-ND	93.60	80.60	039834
22	DD752724K1A	24	42.6	1.780A	2400	300	192 x 69	57.6	CR384-ND	135.00	116.25	039860
	DD752748K1A	48	42.6	.890A	2400	300	192 x 69	57.6	CR385-ND	135.00	116.25	039861

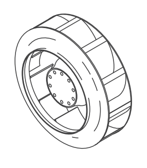

ThermaPro-V (TPV) DC Fans

Thermal Speed Control: This option uses a thermistor to monitor the temperature and regulate the speed accordingly. The fan will automatically adjust its speed to optimize the airflow to the surrounding temperature. For conditions where power inputs are at a minimum, the fan operates at half speed, providing a minimal amount of CFM to those components still in need of cooling. This reduction in speed results in a significant reduction in noise and power consumption. As the power requirements increase, so does the internal temperature. The fan senses this increase and compensates for it. The fan will continue to increase in speed until it reaches full speed for maximum cooling. The temperature range is 25°C ~ 45°C. Any temperature below 25°C the fan will operate at half speed. Between 25°C and 45°C, the fan RPM changes linearly with temperature. Over 45°C, the fan will maintain full speed operation.

Fans equipped with this option use a thermistor. The thermistor can be located on a zip cord and placed on hot spots such as processors, heatsinks, transformers, etc., or can be placed in the hub of the fan to monitor the air traveling through the fan.

Model	Venturi	Propeller	EMI (See Right)
Muffin TPV	Flame retardant, black, phenolic	Flame retardant polypropylene, black	—
Sprint TPV	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	A
Patriot TPV	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	—

EMI

A. Meets EMI standards per FCC part 15, subpart J of Docket 20780, Class A or B radiated and conducted emissions. Meets EMI standards per VDE specification 0871/6.78 for category A and B requirements.

APPROVALS

1. UL yellow card recognized, file No. E31293.
2. CSA certified, file No. L52898.
3. TUV approved to IEC 950, VDE 0730; License R97229.
4. TUV approved to IEC 950, VDE 0730; License R97152 and R97188.

Fig. 1

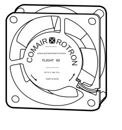

Fig. 2

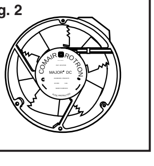

Fig.	Model	Connection Type	Bearing	Voltage		Power (Watts)	Running Current	RPM	CFM	Dimensions (mm)	Life(F) Expectancy	Approvals (See Above)	Digi-Key Part No.	Price Each		Comair Model No.	Finger Guards	Price Each
				Nom.	Range									1	25			
1	Muffin TPV	Lead Wires	Sleeve	12	6/14	2.8	230mA	1700	47	120x32	83,000 hrs. @ 40°C	1, 2, 3	CR269-ND	36.50	30.12	MC12T3H	CR210-ND	1.79
	Sprint TPV	Lead Wires	Sleeve	48	24/56	2.9	60mA	2100	20	80x32	55,000 hrs. @ 40°C	1, 2, 3	CR274-ND	33.00	27.23	ST48T3H	CR180-ND	.85
2	Patriot TPV	Terminal	Ball	48	24/56	10.0	210mA	1700	113	127x51	62,000 hrs. @ 50°C	1, 2, 4	CR277-ND	74.34	61.34	PD48T2H	CR206-ND	2.72

AC Fans

AC Fans - Motor:
Two-pole shaded pole induction motor.
All 50/60Hz, impedance or thermally protected.
100% dielectric tested at 1800 VAC/1 sec./500 microamps max. leakage.

Fig. 1

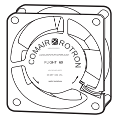

Fig. 2

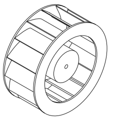

Fig. 3

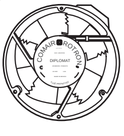

Fig. 4

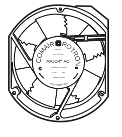

Fig. 5

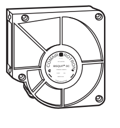

Model	Venturi	Propeller	EMI (See Right)
Sprite	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	A
Whisper	Flame retardant, black, phenolic	Flame retardant polypropylene, black	—
Whisper XL	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	—
Muffin	Flame retardant, black, phenolic	Flame retardant polypropylene, black	—
Muffin XL	One-piece die-cast zinc alloy, black	Flame retardant polypropylene, black, meets UL94V-0	—
Diplomat	One-piece die-cast aluminum, black	Injection molded of flame retardant polycarbonate, black, meets UL94V-0	—
Falcon	One-piece die-cast aluminum, black	Injection molded of flame retardant polycarbonate, black, meets UL94V-0	—
Maltese	One-piece die-cast aluminum, black	Injection molded of flame retardant polycarbonate, black, meets UL94V-0	—
Major	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	—
Patriot	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	—
Tarzan	Flame retardant, black, phenolic	Flame retardant polycarbonate, black	—
Caravel	One-piece die-cast aluminum, black	Polycarbonate, black, meets UL94V-0	—
Biscuit Blower	Black, meets UL94V-0	Polypropylene, black, meets UL94V-2	—

EMI

A Meets EMI standards per FCC part 15, subpart J of Docket 20780,Class A or B radiated and conducted emissions. Meets EMI standards per VDE specification 0871/6.78 for category A and B requirements.

APPROVALS

1. UL yellow card recognized, file No. E31293.
2. CSA certified, file No. LR52898.
3. TUV certified, file No. EN60950.
4. TUV approval pending.
5. VDE Marks license No. 1126.
6. VDE Marks license No. 1354.
7. TUV approved, file No. R97229.

Fig.	Model	Connection Type	Bearing	Voltage Nom.	Voltage Range	Power (Watts)	Running Current	RPM	CFM	Dimensions (mm)	Life(F) Expectancy	Approvals (See Above)	Digi-Key Part No.	Price Each 1	Price Each 25	Comair Model No.	Finger Guards	Price Each
											AC Fans							
1	Sprite	Lead Wires	Sleeve	115	—	7/6	.08/.07A	2200/2600	23/27	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR093-ND	26.20	21.62	SU2E1	CR180-ND	.85
		Terminal	Sleeve	115	—	13/11	.19/.15A	2750/3250	28/34	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR097-ND	25.90	21.37	SU2A5	CR180-ND	.85
		Lead Wires	Sleeve	115	—	13/11	.19/.15A	2750/3250	28/34	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR091-ND	24.80	20.46	SU2A1	CR180-ND	.85
		Lead Wires	Ball	115	—	13/11	.19/.15A	2750/3250	28/34	80x42	73,000 hrs. @ 40°C	1, 2, 5	CR103-ND	29.00	23.93	SU2B1	CR180-ND	.85
		Terminal	Ball	115	—	13/11	.19/.15A	2750/3250	28/34	80x42	73,000 hrs. @ 40°C	1, 2, 5	CR105-ND	29.00	23.93	SU2B5	CR180-ND	.85
		Lead Wires	Sleeve	115	—	7/6	.07/.06A	1700/1950	15/18	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR108-ND*	26.80	22.11	SU2C7	CR180-ND	.85
		Lead Wires	Sleeve	—	220/230	14/13	.09/.08A	2750/3250	28/34	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR250-ND*	25.40	20.96	SU3A1	CR180-ND	.85
		Lead Wires	Sleeve	115	—	7/6	.07/.06A	1750/1900	17/20	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR251-ND*	27.50	22.69	SU2C1	CR180-ND	.85
		Terminal	Sleeve	—	220/230	14/13	.09/.08A	2750/3250	28/34	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR252-ND*	26.40	21.78	SU3A5	CR180-ND	.85
		Terminal	Sleeve	115	—	7/6	.07/.06A	1750/1900	17/20	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR253-ND*	26.70	22.03	SU2C5	CR180-ND	.85
		Lead Wires	Ball	—	220/230	14/13	.09/.08A	2750/3250	28/34	80x42	55,000 hrs. @ 40°C	1, 2, 5	CR255-ND*	31.50	25.99	SU3B1	CR180-ND	.85
	Whisper	Terminal	Sleeve	115	—	7/7	.07/.06A	1640/1660	55/57	120x38	55,000 hrs. @ 40°C	1, 2	CR113-ND	27.00	22.28	WR2A1	CR210-ND	1.79
		Terminal	Sleeve	115	—	11/10	.12/.11A	2100/2400	70/80	120x38	55,000 hrs. @ 40°C	1, 2	CR114-ND	27.00	22.28	WR2H1	CR210-ND	1.79
		Terminal	Sleeve	—	220/230	12/12	.07/.07A	1590/2000	53/62	120x38	55,000 hrs. @ 40°C	1, 2	CR116-ND	29.50	24.34	WR3A1	CR210-ND	1.79
	Whisper XL	Terminal	Sleeve	115	—	6/6	.07/.06A	1450/1500	48/50	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR117-ND†	27.40	22.61	WX2A1	CR210-ND	1.79
		Terminal	Sleeve	115	—	10/9	.11/.10A	1900/2000	65/70	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR119-ND†	27.40	22.61	WX2M1	CR210-ND	1.79
		Terminal	Sleeve	115	—	15/13	.19/.15A	2200/2500	70/83	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR118-ND†	27.40	22.61	WX2H1	CR210-ND	1.79
		Terminal	Sleeve	—	220/230	14/13	.10/.09A	2200/2500	70/83	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR256-ND†	27.40	22.61	WX3H1	CR210-ND	1.79
	Muffin	Terminal	Sleeve	115	—	15/14	.19/.16A	2650/3100	88/105	120x38	55,000 hrs. @ 40°C	1, 2	CR122-ND	24.30	20.05	MU2A1	CR210-ND	1.79
		Terminal	Ball	115	—	15/14	.19/.16A	2650/3100	88/105	120x38	85,000 hrs. @ 40°C	1, 2	CR124-ND	35.90	29.62	MU2B1	CR210-ND	1.79
		Terminal	Sleeve	—	220/230	15/14	.10/.09A	2650/3100	88/105	120x38	55,000 hrs. @ 40°C	1, 2	CR123-ND	24.30	20.05	MU3A1	CR210-ND	1.79
		Terminal	Ball	—	220/230	15/14	.10/.09A	2650/3100	88/105	120x38	85,000 hrs. @ 40°C	1, 2	CR125-ND	35.90	29.62	MU3B1	CR210-ND	1.79
	Muffin XL	Terminal	Sleeve	115	—	17/15	.20/.18A	2700/3100	92/108	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR128-ND†*	27.50	22.69	MX2A1	CR210-ND	1.79
		Terminal	Ball	115	—	17/15	.20/.18A	2700/3100	92/108	119x39	83,000 hrs. @ 40°C	1, 2, 5	CR132-ND†*	37.80	31.19	MX2B1	CR210-ND	1.79
		Terminal	Sleeve	115	—	17/15	.20/.18A	2700/3100	98/115	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR126-ND†	25.60	21.12	MX2A3	CR210-ND	1.79
		Terminal	Ball	115	—	17/15	.20/.18A	2700/3100	98/115	119x39	83,000 hrs. @ 40°C	1, 2, 5	CR130-ND†	37.80	31.19	MX2B3	CR210-ND	1.79
		Terminal	Sleeve	—	220/230	17/16	.10/.09A	2700/3100	98/115	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR257-ND†	28.00	23.10	MX3A3	CR210-ND	1.79
		Terminal	Ball	—	220/230	17/16	.10/.09A	2700/3100	98/115	119x39	55,000 hrs. @ 40°C	1, 2, 5	CR258-ND†	37.80	31.19	MX3B3	CR210-ND	1.79
2	Diplomat	Terminal	Ball	—	220/230	26/30	.13/.20A	2850/3350	150/170	133x91	50,000 hrs. @ 40°C	1, 2, 3	CR314-ND	66.15	56.97	DAF77B2	—	—
3	Falcon	Terminal	Ball	115	—	41.4	.36A	3400	300	172x55	40,000 hrs. @ 50°C	1, 2, 3	CR309-ND†	72.90	62.78	FA2B3	CR196-ND	3.06
		Terminal	Ball	—	220/230	41.4	.18A	3400	300	172x55	40,000 hrs. @ 50°C	1, 2, 3	CR310-ND†	72.90	62.78	FA77B3	CR196-ND	3.06
4	Maltese	Terminal	Ball	115	—	41.4	.36A	3400	300	172x150x55	40,000 hrs. @ 50°C	1, 2, 7	CR311-ND†	72.90	62.78	MA2B3	CR196-ND	3.06
		Terminal	Ball	—	220/230	41.4	.18A	3400	300	172x150x55	40,000 hrs. @ 50°C	1, 2, 7	CR312-ND†	72.90	62.78	MA77B3	CR196-ND	3.06
	Major	Terminal	Ball	115	—	30/31	.27/.26A	2850/3350	200/235	172x150x51	5 yrs. @ 25°C	1, 2, 6	CR134-ND†	60.90	50.25	MR2B3	CR196-ND	3.06
		Terminal	Ball	—	220/230	26/30	.13/.14A	2850/3350	200/235	172x150x51	5 yrs. @ 25°C	1, 2, 6	CR135-ND†	61.20	50.49	MR77B3	CR196-ND	3.06
3	Patriot	Terminal	Ball	115	—	30/31	.27/.26A	2850/3350	200/235	172x51	5 yrs. @ 25°C	1, 2, 6	CR136-ND†	60.90	50.25	PT2B3	CR206-ND	2.72
		Terminal	Ball	—	220/230	26/30	.13/.14A	2850/3350	200/235	172x51	53,000 hrs. @ 40°C	1, 2, 6	CR137-ND†	61.20	50.49	PT77B3	CR206-ND	2.72
1	Tarzan	Terminal	Ball	115	—	90/85	1.4/1.2A	2820/3350	280/340	176x112	25,000 hrs. @ 40°C	1, 2, 4	CR140-ND	89.20	73.59	TNE2A	CR179-ND	6.56
		Terminal	Ball	—	220/230	82/85	.65/.60A	2820/3350	280/340	176x112	25,000 hrs. @ 40°C	1, 2, 4	CR141-ND	89.20	73.59	TNE3A	CR179-ND	6.56
		Leadwire	Ball	115	—	90/85	1.4/1.2A	2820/3350	280/340	176x112	25,000 hrs. @ 40°C	1, 2, 4	CR259-ND	88.20	72.77	TNE2C	CR179-ND	6.56
3	Caravel	Lead Wires	Ball	115	—	65	.48/.50A	1400/1650	455/550	254x89	54,000 hrs. @ 40°C	1, 2, 3	CR144-ND†	57.75	50.33	CLE2L2	CR182-ND	1.89
		Terminal	Ball	115	—	65	.48/.50A	1400/1650	455/550	254x89	54,000 hrs. @ 40°C	1, 2, 3	CR145-ND†	59.50	51.85	CLE2T2	CR182-ND	1.89
		Terminal	Ball	—	220/230	55	.24/.25A	1400/1650	455/550	254x89	54,000 hrs. @ 40°C	1, 2, 3	CR147-ND†	59.50	51.85	CLE3T2	CR182-ND	1.89
5	Biscuit Blower	Terminal	Sleeve	115	—	17/16	.19/.17A	2500/2700	20/22	120x40	55,000 hrs. @ 40°C	1, 2	CR148-ND	34.00	28.05	BT2A1	—	—
		Terminal	Sleeve	—	220/230	15/14	.09/.08A	2500/2700	20/22	120x40	55,000 hrs. @ 40°C	1, 2	CR149-ND	34.00	28.05	BT3A1	—	—

† Feathered Edge for lower noise   * Reverse Flow

Fan Accessories

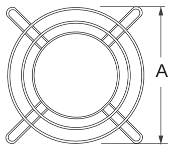

Dim. (mm) A	Dim. (mm) Thick	Fits Fan Size (mm)	Center Dim. (mm)	No. of Rings	Material	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50
				Finger Guards					
222.00	17.78	176 Sq.	99 open	3	Metal	CR179-ND	6.56	5.65	5.19

Description	Fits Fan Size (mm)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 50
		Filters and Filter Accessories			
Filter Assembly	119 and 120 Square	CR209-ND	16.59	12.64	11.46
		Clips			
#6-32 Flush Mounting Clip	Major, Major DC, Whisper	CR187-ND	.17	.15	.14
#6-32 Mounting Clip	All XL Models	CR192-ND	.15	.12	.11

Fig. 1

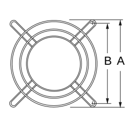

Fig. 2

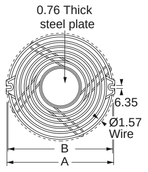

Fig. 3

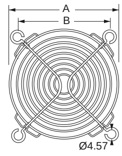

Fig. 4

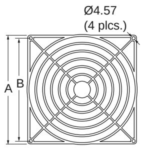

Fig. 5

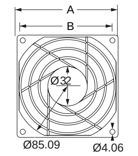

Fig. 6

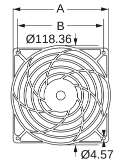

Fig. 7

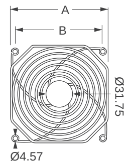

Fig. 8

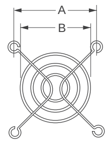

Fig. 9

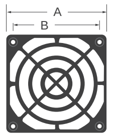

Fig. 10

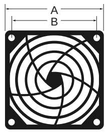

Fig. 11

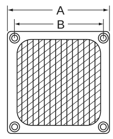

Fig. 12

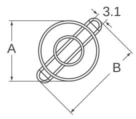

Fig. 13

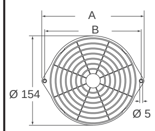

Fig. 14

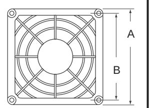

Fig. 15

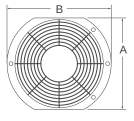

Fig. 16

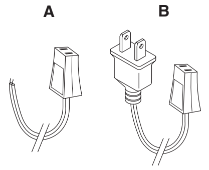

Fig. 17

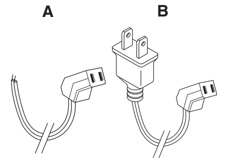

Fig. 18

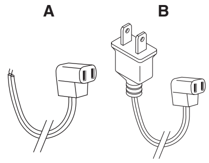

Fig. 19

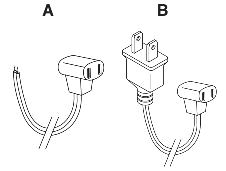

Fig.	Dim. (mm) A	B	Thick	Fits Fan Size (mm)	Center Dim. (mm)	No. of Rings	Material	Digi-Key Part No.	Price Each 1	25	50	Qualtek Part No.
Finger Guards												
1	109.47	104.78	4.83	120 Sq.	57 open	3	Metal	CR178-ND	1.00	.84	.76	08146
	76.96	71.37	3.89	80 Sq.	50 open	3	Metal	CR180-ND	.85	.71	.65	08153
	209.55	173.99	8.38	254 Dia.	102 open	5	Metal	CR182-ND	1.89	1.71	1.53	08154
2	158.75	161.92	6.10	150 Dia.	74 solid	6	Metal	CR206-ND	2.72	2.29	2.07	08152
	158.75	161.92	6.10	171.5 Dia.	74 solid	5 3/4	Metal	CR196-ND	3.06	2.58	2.33	08151
3	124.46	113.28	5.92	127 Dia.	14 open	9	Metal	CR200-ND	2.03	1.71	1.55	08150
4	115.06	104.65	6.60	120 Sq.	25.4 solid	6	Plastic	CR280-ND	.90	.76	.69	09120-G
5	115.06	104.65	2.54	120 Sq.	32 solid	5	Plastic	CR315-ND	.78	.66	.60	09122-G
6	115.06	104.65	6.60	120 Sq.	45 solid	5	Plastic	CR281-ND	1.05	.89	.80	09121-G
7	117.35	104.78	5.21	120 Sq.	33 solid	7	Metal	CR210-ND	1.79	1.51	1.36	08141
8	89.41	82.42	4.95	92 Sq.	14 open	6	Metal	CR220-ND	.68	.58	.52	08174
	53.10	50.04	4.95	60 Sq.	14 open	4	Metal	CR221-ND	.57	.48	.44	08147
	222.25	173.99	6.35	254 Dia.	76.2 solid	9	Metal	CR223-ND	3.05	2.56	2.32	08127
	115.6	104.8	5.66	120 Dia.	17.5 open	8	Metal	CR224-ND	.81	.68	.62	08170
	76.20	71.37	4.95	80 Dia.	17.4 open	5	Metal	CR229-ND	.65	.55	.50	08172
	32.00	29.21	4.80	40 Dia.	15.875 open	2	Metal	CR230-ND	.48	.41	.37	08149
	24.00	21.8	4.80	30 Sq.	9 open	2	Metal	CR377-ND ***NEW!***	.59	.54	.48	08346
	29.00	27.00	4.00	35 Sq.	14.2 open	2	Metal	CR378-ND ***NEW!***	.63	.57	.51	08347
	40.00	41.06	4.80	50 Sq.	14.2 open	3	Metal	CR379-ND ***NEW!***	1.03	.94	.84	08248
	42.00	41.00	4.80	52 Sq.	14.2 open	3	Metal	CR388-ND ***NEW!***	.69	.63	.57	08148
9	39.88	32.00	4.83	40 Sq.	12 open	3	Plastic	CR285-ND	.29	.25	.22	09150-G
	59.94	50.04	6.35	60 Sq.	5 solid	3	Plastic	CR225-ND	.35	.29	.27	09250-G
10	80.01	71.37	6.35	80 Sq.	15 solid	3	Plastic	CR226-ND	.53	.45	.40	09325-G
	79.76	71.37	3.05	80 Sq.	32 solid	3	Plastic	CR282-ND	.46	.39	.35	09080-G
	91.95	82.55	6.35	92 Sq.	31.5 solid	4	Plastic	CR227-ND	.85	.72	.65	09362-G
	118.11	104.65	7.11	120 Sq.	25 solid	6	Plastic	CR228-ND	.86	.73	.66	09450-G
12	24.2	34.2	3.0	25 Sq.	104 open	2	Metal	CR181-ND	.63	.53	.48	08245
14	60.0	50.0	7.0	60 Sq.	21.0 solid	3	Plastic	CR190-ND	.80	.68	.61	09252-G
15	151	172	7.0	151 Sq.	50 solid	8	Plastic	CR191-ND	2.28	1.92	1.73	09651-G

Fig.	Description	Dim. (mm) A	B	Fits Fan Size (mm)	Digi-Key Part No.	Price Each 1	25	50	Qualtek Part No.
Filters and Filter Accessories									
9	Filter Guard Assembly (30 PPI)	39.88	32.00	40 Sq.	CR286-ND	.67	.57	.51	09150-F/30
9	Filter Guard Assembly (45 PPI)	39.88	32.00	40 Sq.	CR287-ND	.67	.57	.51	09150-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	40 Sq.	CR324-ND	.74	.62	.57	09150-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	40 Sq.	CR325-ND	.74	.62	.57	09150-M/45
9	Filter Guard Assembly (30 PPI)	59.94	50.04	60 Sq.	CR283-ND	.82	.69	.62	09250-F/30
9	Filter Guard Assembly (45 PPI)	59.94	50.04	60 Sq.	CR284-ND	.82	.69	.62	09250-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	60 Sq.	CR326-ND	.66	.56	.51	09250-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	60 Sq.	CR327-ND	.66	.56	.51	09250-M/45
10	Filter Guard Assembly (30 PPI)	83.57	71.37	80 Sq.	CR212-ND	1.27	1.07	.97	09325-F/30
10	Filter Guard Assembly (45 PPI)	83.57	71.37	80 Sq.	CR214-ND	1.27	1.07	.97	09325-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	80 Sq.	CR213-ND	1.15	.97	.88	09325-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	80 Sq.	CR215-ND	1.15	.97	.88	09325-M/45
10	Filter Guard Assembly (30 PPI)	96.52	82.55	92 Sq.	CR328-ND	1.30	1.10	.99	09362-F/30
10	Filter Guard Assembly (45 PPI)	96.52	82.55	92 Sq.	CR329-ND	2.43	2.04	1.85	09362-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—	92 Sq.	CR330-ND	1.30	1.10	.99	09362-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—	92 Sq.	CR331-ND	1.30	1.10	.99	09362-M/45
10	Filter Guard Assembly (30 PPI)	123.7	104.9	119 & 120 Square	CR216-ND	2.08	1.75	1.58	09450-F/30
10	Filter Guard Assembly (45 PPI)	123.7	104.9		CR218-ND	2.08	1.75	1.58	09450-F/45
—	Replacement Filter Element (30 PPI) - Pkg. of 5	—	—		CR217-ND	1.79	1.51	1.36	09450-M/30
—	Replacement Filter Element (45 PPI) - Pkg. of 5	—	—		CR219-ND	1.79	1.51	1.36	09450-M/45
11	Filter/Screen, Stainless Steel (Washable)	64.26	49.6	60 Sq.	CR373-ND	5.38	4.87	4.36	06250-SS
	Filter/Screen, Aluminum (Washable)	83.82	71.37	80 Sq.	CR233-ND	3.10	2.81	2.51	06325-M
	Filter/Screen, Stainless Steel (Washable)	83.82	71.37	80 Sq.	CR374-ND	5.52	5.00	4.48	06325-SS
	Filter/Screen, Aluminum (Washable)	91.95	82.42	92 Sq.	CR234-ND	3.00	2.72	2.43	06362-M
	Filter/Screen, Stainless Steel (Washable)	91.95	82.42	92 Sq.	CR375-ND	5.69	5.15	4.61	06362-SS
	Filter/Screen, Aluminum (Washable)	118.87	104.77	120 Sq.	CR235-ND	4.15	3.76	3.36	06450-M
	Filter/Screen, Stainless Steel (Washable)	118.87	104.77	120 Sq.	CR376-ND	8.53	7.72	6.91	06450-SS
13	Finger Guard Assembly, Plastic (30 PPI)	176.0	161.5	150 Sq.	CR183-ND	3.73	3.13	2.84	09650-F/30
	Finger Guard Assembly, Plastic (45 PPI)	176.0	161.5	150 Sq.	CR185-ND	3.73	3.13	2.84	09650-F/45
	Finger Guard Assembly, Plastic (60 PPI)	176.0	161.5	150 Sq.	CR186-ND	3.40	3.08	2.76	09650-F/60
	Finger Guard Assembly, Plastic (100 PPI)	176.0	161.5	150 Sq.	CR189-ND	3.40	3.08	2.76	09650-F/100
Plug Cord Sets – SPT-1 (18/2)									
16A	Straight On Plug and Cord – 24” (60.96cm)			Fits all Diplomat, Falcon, Maltese, Major, Patriot, Tarzan, Caravel, and Biscuit model fans with Terminal Connections	CR197-ND	.88	.75	.68	07100-24
	Straight On Plug and Cord – 36” (91.44cm)				CR198-ND	1.01	.85	.77	07100-36
	Straight On Plug and Cord – 50” (127.00cm)				CR199-ND	1.19	1.00	.91	07100-50
16B	Straight On Plug and Cord – 24” (60.96cm)				CR361-ND	1.48	1.24	1.13	07100-SP024
	Straight On Plug and Cord – 36” (91.44cm)				CR362-ND	1.62	1.36	1.23	07100-SP036
	Straight On Plug and Cord – 72” (182.88cm)				CR363-ND	2.08	1.75	1.59	07100-SP072
17A	45° Angle Plug and Cord – 24” (60.96cm)			Fits all AC Fans with Terminal Connection Type	CR318-ND	.88	.75	.68	07145-24
	45° Angle Plug and Cord – 36” (91.44cm)				CR319-ND	1.01	.85	.77	07145-36
17B	45° Angle Plug and Cord – 36” (91.44cm)				CR365-ND	1.62	1.36	1.23	07145-SP036
	45° Angle Plug and Cord – 72” (182.88cm)				CR366-ND	2.08	1.75	1.59	07145-SP072
18A	90° Angle Plug and Cord – 12” (30.48cm)			Fits all AC Fans with Terminal Connection Type	CR320-ND	.77	.65	.59	07190-12
	90° Angle Plug and Cord – 24” (60.96cm)				CR321-ND	.88	.75	.68	07190-24
	90° Angle Plug and Cord – 36” (91.44cm)				CR322-ND	1.01	.85	.77	07190-36
18B	90° Angle Plug and Cord – 24” (60.96cm)				CR367-ND	1.48	1.24	1.13	07190-SP024
	90° Angle Plug and Cord – 36” (91.44cm)				CR368-ND	1.62	1.36	1.23	07190-SP036
	90° Angle Plug and Cord – 72” (182.88cm)				CR369-ND	2.08	1.75	1.59	07190-SP072
19A	90° Angle T-Style Plug and Cord – 12” (30.48cm)			Fits all AC Fans with Terminal Connection Type	CR323-ND	.93	.78	.71	07199-12
	90° Angle T-Style Plug and Cord – 24” (60.96cm)				CR170-ND	.88	.75	.68	07199-24
	90° Angle T-Style Plug and Cord – 36” (91.44cm)				CR175-ND	1.01	.85	.77	07199-36
	90° Angle T-Style Plug and Cord – 72” (182.88cm)				CR337-ND	1.61	1.36	1.23	07199-72
	90° Angle T-Style Plug and Cord – 96” (243.84cm)				CR338-ND	1.91	1.61	1.46	07199-96
19B	90° Angle T-Style Plug and Cord – 36” (91.44cm)				CR371-ND	1.80	1.52	1.37	07199-SP036
	90° Angle T-Style Plug and Cord – 72” (182.88cm)				CR372-ND	2.38	2.00	1.81	07199-SP072

TAMURA Low Power 120VAC Transformers Class B

Electrical Specifications: • Input Voltage: 120VAC, 60Hz • Temperature Rise: 30°C typical • Insulation Resistance: 100MΩ min.@500VDC, Primary to Secondary, Primary to Core, Secondary to Core, Hi-Pot: 2,500Vrms (1 minute, Primary to Secondary), 1500Vrms (1 minute, Primary to Core), 500Vrms (1 minute, Secondary to Core) • Agency Approvals: Designed to meet EN60950, CSA22.2, UL60950, UL1411 and UL1585 for Class II Approvals Pending. Insulation System approval to UL class A and B insulation rating. File E69939 (*Note: Electrical specifications are tested at 25°C)*

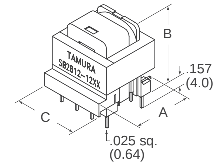

SB28xx Series

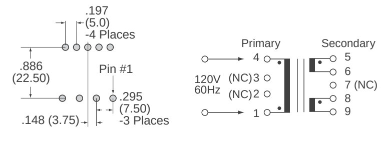

SB35xx Series

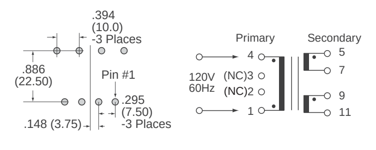

Mfg. Number	VA Size	Dim. – Inch (mm)		
		A	B	C
SB2812	1.2	1.30 (33.0)	1.14 (29.0)	1.12 (28.5)
SB2816	1.6	1.30 (33.0)	1.30 (33.0)	1.12 (28.5)
SB3512	2.0	1.38 (35.0)	1.26 (32.0)	1.40 (35.5)
SB3516	3.0	1.38 (35.0)	1.42 (36.0)	1.40 (35.5)

VA (Size)	Secondary RMS Rating Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each					Tamura Part No.
				1	10	25	50	100	
1.2	2.0 @ 0.60	4.0 @ 0.300	MT7249-ND	2.65	2.39	2.12	1.86	1.59	SB2812-1204
1.6	2.0 @ 0.80	4.0 @ 0.400	MT7250-ND	2.98	2.68	2.38	2.09	1.79	SB2816-1604
2.0	2.0 @ 1.00	4.0 @ 0.500	MT7251-ND	3.40	3.06	2.72	2.38	2.04	SB3512-2004
3.0	2.0 @ 1.50	4.0 @ 0.750	MT7252-ND	3.60	3.24	2.88	2.52	2.16	SB3516-3004
1.2	3.0 @ 0.40	6.0 @ 0.200	MT7253-ND	2.65	2.39	2.12	1.86	1.59	SB2812-1206
1.6	3.0 @ 0.53	6.0 @ 0.265	MT7254-ND	2.98	2.68	2.38	2.09	1.79	SB2816-1606
2.0	3.0 @ 0.67	6.0 @ 0.335	MT7255-ND	3.40	3.06	2.72	2.38	2.04	SB3512-2006
3.0	3.0 @ 1.0	6.0 @ 0.500	MT7256-ND	3.60	3.24	2.88	2.52	2.16	SB3516-3006
1.2	5.0 @ 0.24	10.0 @ 0.120	MT7257-ND	2.65	2.39	2.12	1.86	1.59	SB2812-1210
1.6	5.0 @ 0.32	10.0 @ 0.160	MT7258-ND	2.98	2.68	2.38	2.09	1.79	SB2816-1610
2.0	5.0 @ 0.40	10.0 @ 0.200	MT7259-ND	3.40	3.06	2.72	2.38	2.04	SB3512-2010
3.0	5.0 @ 0.60	10.0 @ 0.300	MT7260-ND	3.60	3.24	2.88	2.52	2.16	SB3516-3010
1.2	7.0 @ 0.17	14.0 @ 0.085	MT7261-ND	2.65	2.39	2.12	1.86	1.59	SB2812-1214
1.6	7.0 @ 0.23	14.0 @ 0.115	MT7262-ND	2.98	2.68	2.38	2.09	1.79	SB2816-1614
2.0	7.0 @ 0.29	14.0 @ 0.145	MT7263-ND	3.40	3.06	2.72	2.38	2.04	SB3512-2014
3.0	7.0 @ 0.43	14.0 @ 0.215	MT7264-ND	3.60	3.24	2.88	2.52	2.16	SB3516-3014
1.2	8.0 @ 0.15	16.0 @ 0.075	MT7265-ND	2.65	2.39	2.12	1.86	1.59	SB2812-1216
1.6	8.0 @ 0.20	16.0 @ 0.100	MT7266-ND	2.98	2.68	2.38	2.09	1.79	SB2816-1616
2.0	8.0 @ 0.25	16.0 @ 0.125	MT7267-ND	3.40	3.06	2.72	2.38	2.04	SB3512-2016
3.0	8.0 @ 0.38	16.0 @ 0.190	MT7268-ND	3.60	3.24	2.88	2.52	2.16	SB3516-3016

VA (Size)	Secondary RMS Rating Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each					Tamura Part No.
				1	10	25	50	100	
1.2	9.0 @ 0.13	18.0 @ 0.065	MT7269-ND	2.65	2.39	2.12	1.86	1.59	SB2812-1218
1.6	9.0 @ 0.18	18.0 @ 0.090	MT7270-ND	2.98	2.68	2.38	2.09	1.79	SB2816-1618
2.0	9.0 @ 0.22	18.0 @ 0.110	MT7271-ND	3.40	3.06	2.72	2.38	2.04	SB3512-2018
3.0	9.0 @ 0.33	18.0 @ 0.165	MT7272-ND	3.60	3.24	2.88	2.52	2.16	SB3516-3018
1.2	11.0 @ 0.11	22.0 @ 0.055	MT7273-ND	2.65	2.39	2.12	1.86	1.59	SB2812-1222
1.6	11.0 @ 0.15	22.0 @ 0.075	MT7274-ND	2.98	2.68	2.38	2.09	1.79	SB2816-1622
2.0	11.0 @ 0.18	22.0 @ 0.090	MT7275-ND	3.40	3.06	2.72	2.38	2.04	SB3512-2022
3.0	11.0 @ 0.27	22.0 @ 0.135	MT7276-ND	3.60	3.24	2.88	2.52	2.16	SB3516-3022
1.2	12.0 @ 0.10	24.0 @ 0.050	MT7277-ND	2.65	2.39	2.12	1.86	1.59	SB2812-1224
1.6	12.0 @ 0.13	24.0 @ 0.065	MT7278-ND	2.98	2.68	2.38	2.09	1.79	SB2816-1624
2.0	12.0 @ 0.17	24.0 @ 0.085	MT7279-ND	3.40	3.06	2.72	2.38	2.04	SB3512-2024
3.0	12.0 @ 0.25	24.0 @ 0.125	MT7280-ND	3.60	3.24	2.88	2.52	2.16	SB3516-3024
1.2	13.0 @ 0.09	26.0 @ 0.045	MT7281-ND	2.65	2.39	2.12	1.86	1.59	SB2812-1226
1.6	13.0 @ 0.12	26.0 @ 0.060	MT7282-ND	2.98	2.68	2.38	2.09	1.79	SB2816-1626
2.0	13.0 @ 0.15	26.0 @ 0.075	MT7283-ND	3.40	3.06	2.72	2.38	2.04	SB3512-2026
3.0	13.0 @ 0.23	26.0 @ 0.115	MT7284-ND	3.60	3.24	2.88	2.52	2.16	SB3516-3026
1.2	15.0 @ 0.08	30.0 @ 0.040	MT7285-ND	2.65	2.39	2.12	1.86	1.59	SB2812-1230
1.6	15.0 @ 0.11	30.0 @ 0.055	MT7286-ND	2.98	2.68	2.38	2.09	1.79	SB2816-1630
2.0	15.0 @ 0.13	30.0 @ 0.065	MT7287-ND	3.40	3.06	2.72	2.38	2.04	SB3512-2030
3.0	15.0 @ 0.20	30.0 @ 0.100	MT7288-ND	3.60	3.24	2.88	2.52	2.16	SB3516-3030

SPLITFORM® Power Transformers

For PC Board Solid-State Power, Control and Instrumentation Applications

File #'s
LR73078,
LR69808

UL 1585 Class 2 &3 - File #'s E96720, 95844
UL 506 - File #'s E79781, E91239
130B - File #92957

• 115V Single or 115/230V 50/60Hz dual primary • Split Bobbin Construction: – Center flange insulation barrier – High isolation for low leakage applications – Low capacitive coupling minimizes line noise and false triggering • 2,500V RMS (Pri: Sec) hi-pot • Precision spaced terminals • 130°C Class B insulation system • Terminal numbers are molded on bobbin • Non-Inherently limited

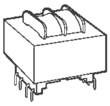

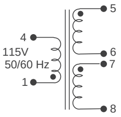

115V Single Primary

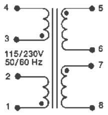

115V/250V Dual Primary

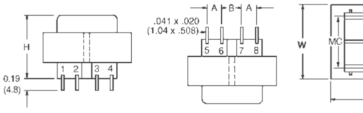

(Pins 2 and 3 omitted on 115V Single Primary)

3F(X) Series	VA Size	Dimensions – Inch (mm)							Weight Lbs. (kg)
		L	W	H	MC	A	B	C	
2	1.1	1.44 (36.58)	1.23 (31.24)	1.00 (25.40)	—	.250 (6.35)	.250 (6.35)	1.200 (30.48)	0.17 (.077)
3	2.4	1.44 (36.58)	1.23 (31.24)	1.26 (32.00)	—	.250 (6.35)	.250 (6.35)	1.200 (30.48)	0.25 (.113)
4	6	1.69 (42.93)	1.39 (35.31)	1.36 (34.54)	1.063 (27.00)	.250 (6.35)	.350 (8.89)	1.280 (32.51)	0.44 (.200)
5	12	1.97 (50.04)	1.63 (41.40)	1.50 (38.10)	1.250 (31.75)	.300 (7.62)	.400 (10.16)	1.410 (35.81)	0.70 (.318)

VA (Size)	Secondary RMS Rating Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each					Tamura Part No.
				1	10	25	50	100	
			115V Single Primary						
1.1	5.0 @ 0.220	10.0 @ 0.110	MT2201-ND	6.44	5.55	4.67	4.00	3.33	3FS-210
2.4	5.0 @ 0.500	10.0 @ 0.250	MT2202-ND	7.37	6.35	5.34	4.58	3.81	3FS-310
6	5.0 @ 1.200	10.0 @ 0.600	MT2203-ND	8.21	7.08	5.95	5.10	4.25	3FS-410
12	5.0 @ 2.400	10.0 @ 1.200	MT2204-ND	9.34	8.05	6.77	5.80	4.83	3FS-510
1.1	6.3 @ 0.180	12.6 @ 0.090	MT2205-ND	6.44	5.55	4.67	4.00	3.33	3FS-212
2.4	6.3 @ 0.400	12.6 @ 0.200	MT2206-ND	7.37	6.35	5.34	4.58	3.81	3FS-312
6	6.3 @ 1.000	12.6 @ 0.500	MT2207-ND	8.21	7.08	5.95	5.10	4.25	3FS-412
12	6.3 @ 2.000	12.6 @ 1.000	MT2208-ND	9.34	8.05	6.77	5.80	4.83	3FS-512
1.1	8.0 @ 0.140	16.0 @ 0.070	MT2209-ND	6.44	5.55	4.67	4.00	3.33	3FS-216
2.4	8.0 @ 0.300	16.0 @ 0.150	MT2210-ND	7.37	6.35	5.34	4.58	3.81	3FS-316
6	8.0 @ 0.800	16.0 @ 0.400	MT2211-ND	8.21	7.08	5.95	5.10	4.25	3FS-416
12	8.0 @ 1.600	16.0 @ 0.800	MT2212-ND	9.34	8.05	6.77	5.80	4.83	3FS-516
1.1	10.0 @ 0.110	20.0 @ 0.055	MT2213-ND	6.44	5.55	4.67	4.00	3.33	3FS-220
2.4	10.0 @ 0.240	20.0 @ 0.120	MT2214-ND	7.37	6.35	5.34	4.58	3.81	3FS-320
6	10.0 @ 0.600	20.0 @ 0.300	MT2215-ND	8.21	7.08	5.95	5.10	4.25	3FS-420
12	10.0 @ 1.200	20.0 @ 0.600	MT2216-ND	9.34	8.05	6.77	5.80	4.83	3FS-520
1.1	12.0 @ 0.090	24.0 @ 0.045	MT2217-ND	6.44	5.55	4.67	4.00	3.33	3FS-224
2.4	12.0 @ 0.200	24.0 @ 0.100	MT2218-ND	7.37	6.35	5.34	4.58	3.81	3FS-324
6	12.0 @ 0.500	24.0 @ 0.250	MT2219-ND	8.21	7.08	5.95	5.10	4.25	3FS-424
12	12.0 @ 1.000	24.0 @ 0.500	MT2220-ND	9.34	8.05	6.77	5.80	4.83	3FS-524
1.1	14.0 @ 0.080	28.0 @ 0.040	MT2221-ND	6.44	5.55	4.67	4.00	3.33	3FS-228
2.4	14.0 @ 0.170	28.0 @ 0.085	MT2222-ND	7.37	6.35	5.34	4.58	3.81	3FS-328
6	14.0 @ 0.400	28.0 @ 0.200	MT2223-ND	8.21	7.08	5.95	5.10	4.25	3FS-428
12	14.0 @ 0.840	28.0 @ 0.420	MT2224-ND	9.34	8.05	6.77	5.80	4.83	3FS-528
1.1	18.0 @ 0.060	36.0 @ 0.030	MT2225-ND	6.44	5.55	4.67	4.00	3.33	3FS-236
2.4	18.0 @ 0.130	36.0 @ 0.065	MT2226-ND	7.37	6.35	5.34	4.58	3.81	3FS-336
6	18.0 @ 0.340	36.0 @ 0.170	MT2227-ND	8.21	7.08	5.95	5.10	4.25	3FS-436
12	18.0 @ 0.700	36.0 @ 0.350	MT2228-ND	9.34	8.05	6.77	5.80	4.83	3FS-536
1.1	24.0 @ 0.046	48.0 @ 0.023	MT2229-ND	6.44	5.55	4.67	4.00	3.33	3FS-248
2.4	24.0 @ 0.100	48.0 @ 0.050	MT2230-ND	7.37	6.35	5.34	4.58	3.81	3FS-348
6	24.0 @ 0.250	48.0 @ 0.125	MT2231-ND	8.21	7.08	5.95	5.10	4.25	3FS-448
12	24.0 @ 0.500	48.0 @ 0.250	MT2232-ND	9.34	8.05	6.77	5.80	4.83	3FS-548
1.1	28.0 @ 0.040	56.0 @ 0.020	MT2233-ND	6.44	5.55	4.67	4.00	3.33	3FS-256
2.4	28.0 @ 0.090	56.0 @ 0.045	MT2234-ND	7.37	6.35	5.34	4.58	3.81	3FS-356
6	28.0 @ 0.220	56.0 @ 0.110	MT2235-ND	8.21	7.08	5.95	5.10	4.25	3FS-456
12	28.0 @ 0.440	56.0 @ 0.220	MT2236-ND	9.34	8.05	6.77	5.80	4.83	3FS-556

VA (Size)	Secondary RMS Rating Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each					Tamura Part No.
				1	10	25	50	100	
			115V/230V Dual Primary						
1.1	5.0 @ 0.220	10.0 @ 0.110	MT2096-ND	6.61	5.70	4.79	4.11	3.42	3FD-210
2.4	5.0 @ 0.500	10.0 @ 0.250	MT2097-ND	7.83	6.75	5.67	4.86	4.05	3FD-310
6	5.0 @ 1.200	10.0 @ 0.600	MT2098-ND	8.47	7.30	6.14	5.26	4.38	3FD-410
12	5.0 @ 2.400	10.0 @ 1.200	MT2099-ND	10.76	9.28	7.80	6.68	5.57	3FD-510
1.1	6.3 @ 0.180	12.6 @ 0.090	MT2101-ND	5.13	4.56	3.88	3.42	2.97	3FD-212
2.4	6.3 @ 0.400	12.6 @ 0.200	MT2102-ND	6.08	5.40	4.59	4.05	3.51	3FD-312
6.0	6.3 @ 1.000	12.6 @ 0.500	MT2103-ND	6.57	5.84	4.97	4.38	3.80	3FD-412
12	6.3 @ 2.000	12.6 @ 1.000	MT2104-ND	8.35	7.42	6.31	5.57	4.83	3FD-512
1.1	8.0 @ 0.140	16.0 @ 0.070	MT2105-ND	5.13	4.56	3.88	3.42	2.97	3FD-216
2.4	8.0 @ 0.300	16.0 @ 0.150	MT2106-ND	6.08	5.40	4.59	4.05	3.51	3FD-316
6.0	8.0 @ 0.800	16.0 @ 0.400	MT2107-ND	6.57	5.84	4.97	4.38	3.80	3FD-416
12	8.0 @ 1.600	16.0 @ 0.800	MT2108-ND	8.35	7.42	6.31	5.57	4.83	3FD-516
1.1	10.0 @ 0.110	20.0 @ 0.055	MT2109-ND	5.13	4.56	3.88	3.42	2.97	3FD-220
2.4	10.0 @ 0.240	20.0 @ 0.120	MT2110-ND	6.08	5.40	4.59	4.05	3.51	3FD-320
6.0	10.0 @ 0.600	20.0 @ 0.300	MT2111-ND	6.57	5.84	4.97	4.38	3.80	3FD-420
12	10.0 @ 1.200	20.0 @ 0.600	MT2112-ND	8.35	7.42	6.31	5.57	4.83	3FD-520
1.1	12.0 @ 0.090	24.0 @ 0.045	MT2113-ND	5.13	4.56	3.88	3.42	2.97	3FD-224
2.4	12.0 @ 0.200	24.0 @ 0.100	MT2114-ND	6.08	5.40	4.59	4.05	3.51	3FD-324
6.0	12.0 @ 0.500	24.0 @ 0.250	MT2115-ND	6.57	5.84	4.97	4.38	3.80	3FD-424
12	12.0 @ 1.000	24.0 @ 0.500	MT2116-ND	8.35	7.42	6.31	5.57	4.83	3FD-524
1.1	14.0 @ 0.080	28.0 @ 0.040	MT2117-ND	5.13	4.56	3.88	3.42	2.97	3FD-228
2.4	14.0 @ 0.170	28.0 @ 0.085	MT2118-ND	6.08	5.40	4.59	4.05	3.51	3FD-328
6.0	14.0 @ 0.400	28.0 @ 0.200	MT2119-ND	6.57	5.84	4.97	4.38	3.80	3FD-428
12	14.0 @ 0.840	28.0 @ 0.420	MT2120-ND	8.35	7.42	6.31	5.57	4.83	3FD-528
1.1	18.0 @ 0.060	36.0 @ 0.030	MT2121-ND	5.13	4.56	3.88	3.42	2.97	3FD-236
2.4	18.0 @ 0.130	36.0 @ 0.065	MT2122-ND	6.08	5.40	4.59	4.05	3.51	3FD-336
6.0	18.0 @ 0.340	36.0 @ 0.170	MT2123-ND	6.57	5.84	4.97	4.38	3.80	3FD-436
12	18.0 @ 0.700	36.0 @ 0.350	MT2124-ND	8.35	7.42	6.31	5.57	4.83	3FD-536
1.1	24.0 @ 0.046	48.0 @ 0.023	MT2125-ND	6.61	5.70	4.79	4.11	3.42	3FD-248
2.4	24.0 @ 0.100	48.0 @ 0.050	MT2126-ND	7.83	6.75	5.67	4.86	4.05	3FD-348
6	24.0 @ 0.250	48.0 @ 0.125	MT2127-ND	8.47	7.30	6.14	5.26	4.38	3FD-448
12	24.0 @ 0.500	48.0 @ 0.250	MT2128-ND	10.76	9.28	7.80	6.68	5.57	3FD-548
1.1	28.0 @ 0.040	56.0 @ 0.020	MT2129-ND	6.61	5.70	4.79	4.11	3.42	3FD-256
2.4	28.0 @ 0.090	56.0 @ 0.045	MT2130-ND	7.83	6.75	5.67	4.86	4.05	3FD-356
6	28.0 @ 0.220	56.0 @ 0.110	MT2131-ND	8.47	7.30	6.14	5.26	4.38	3FD-456
12	28.0 @ 0.440	56.0 @ 0.220	MT2132-ND	10.76	9.28	7.80	6.68	5.57	3FD-556

Note: To obtain output voltage, load current must be met, ratings are based on 120V nominal input.

Worldtrans® Power Transformers

For PC Board Solid-State Power, Control, and Instrumentation Applications

- Meets U.S. and International Safety Standards — UL, VDE, IEC, CSA
- 3,500V RMS hipot test — Dual non-concentric bobbins and insulating shroud provide high isolation and reduced capacitance
- 115/230V 50/60Hz primary
- 130°C insulation system — Insulating materials meet UL 94V-0 flammability requirements.
- Non-Inherently limited

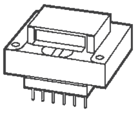

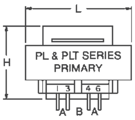

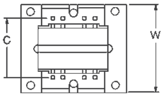

File #LR69222; File #LR69223

File 810/89, 811/89; VDE 0551,0806

Fig. 1

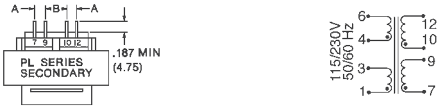

TUV File 810/89, 811/89; IEC 380 EN60950

File #E79781; UL506
E138028; UL1411

Fig. 2

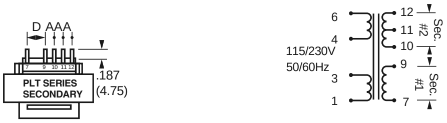

TUV File 810/89, 811/89; IEC 380 EN60950

File #E79781; UL506
E138028; UL1411

VA Size	Dimensions – Inch (mm) L	W	H	A†	B	C	D	Mtg. Screw	Pin Square In. (mm)	Wt. Lbs. (kg)
2.5	1.625 (41.28)	1.313 (33.35)	1.125 (28.58)	.200 (5.08)	.250 (6.35)	1.000 (25.40)	—	2x #4	.025 (.64)	.25 (.11)
5.0	1.625 (41.28)	1.313 (33.35)	1.375 (34.93)	.200 (5.08)	.400 (10.16)	1.000 (25.40)	—	2x #4	.025 (.64)	.37 (.17)
10.0	1.875 (47.63)	1.563 (39.70)	1.375 (34.93)	.200 (5.08)	.400 (10.16)	1.140 (28.96)	—	2x #4	.036 (.91)	.53 (.24)
20.0	2.250 (57.15)	1.875 (47.63)	1.625 (41.28)	.400 (10.16)	.400 (10.16)	1.460 (37.08)	.40 (10.16)	2x #4	.036 (.91)	.90 (.41)
30.0	2.625 (66.68)	2.188 (55.58)	1.563 (39.70)	.550 (13.97)	.275 (6.98)	1.680 (42.67)	.55 (13.97)	4x #6	.045 (1.14)	1.15 (.52)
56.0	3.000 (76.20)	2.500 (63.50)	1.813 (46.05)	.600 (15.24)	.300 (7.62)	1.900 (48.26)	.60 (15.24)	4x #6	.045 (1.14)	1.70 (.77)

† For PLT series secondary only, dimension A is 1/2 of value shown.

Fig.	VA (Size)	Secondary RMS Rating Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each* 1	10	25	Tamura Part No.
				PL Series — Dual Output Low Profile				
1	2.5	5 @ 0.5	10 @ 0.25	MT3101-ND	7.97	7.08	6.02	PL2.5-10-130B
	5.0	5 @ 1.0	10 @ 0.5	MT3102-ND	8.60	7.64	6.50	PL5.0-10-130B
	10.0	5 @ 2.0	10 @ 1.0	MT3103-ND	9.47	8.42	7.16	PL10-10-130B
	20.0	5 @ 4.0	10 @ 2.0	MT3104-ND	11.41	10.14	8.62	PL20-10-130B
	30.0	5 @ 6.0	10 @ 3.0	MT3105-ND	13.52	12.02	10.22	PL30-10-130B
	56.0	5 @ 11.2	10 @ 5.6	MT3106-ND	18.14	16.12	13.71	PL56-10-130B
1	2.5	6.3 @ 0.4	12.6 @ 0.2	MT3107-ND	7.97	7.08	6.02	PL2.5-12-130B
	5.0	6.3 @ 0.8	12.6 @ 0.4	MT3108-ND	8.60	7.64	6.50	PL5.0-12-130B
	10.0	6.3 @ 1.6	12.6 @ 0.8	MT3109-ND	9.47	8.42	7.16	PL10-12-130B
	20.0	6.3 @ 3.2	12.6 @ 1.6	MT3110-ND	11.41	10.14	8.62	PL20-12-130B
	30.0	6.3 @ 4.8	12.6 @ 2.4	MT3111-ND	13.52	12.02	10.22	PL30-12-130B
	56.0	6.3 @ 8.8	12.6 @ 4.4	MT3112-ND	18.14	16.12	13.71	PL56-12-130B
1	2.5	8 @ 0.3	16 @ 0.15	MT3113-ND	7.97	7.08	6.02	PL2.5-16-130B
	5.0	8 @ 0.62	16 @ 0.31	MT3114-ND	8.60	7.64	6.50	PL5.0-16-130B
	10.0	8 @ 1.25	16 @ 0.62	MT3115-ND	9.47	8.42	7.16	PL10-16-130B
	20.0	8 @ 2.5	16 @ 1.25	MT3116-ND	11.41	10.14	8.62	PL20-16-130B
	30.0	8 @ 3.8	16 @ 1.9	MT3117-ND	13.52	12.02	10.22	PL30-16-130B
	56.0	8 @ 7.0	16 @ 3.5	MT3118-ND	18.14	16.12	13.71	PL56-16-130B
1	2.5	10 @ 0.24	20 @ 0.12	MT3119-ND	7.97	7.08	6.02	PL2.5-20-130B
	5.0	10 @ 0.5	20 @ 0.25	MT3120-ND	8.60	7.64	6.50	PL5.0-20-130B
	10.0	10 @ 1.0	20 @ 0.5	MT3121-ND	9.47	8.42	7.16	PL10-20-130B
	20.0	10 @ 2.0	20 @ 1.0	MT3122-ND	11.41	10.14	8.62	PL20-20-130B
	30.0	10 @ 3.0	20 @ 1.5	MT3123-ND	13.52	12.02	10.22	PL30-20-130B
	56.0	10 @ 5.6	20 @ 2.8	MT3124-ND	18.14	16.12	13.71	PL56-20-130B
1	2.5	12 @ 0.2	24 @ 0.1	MT3125-ND	7.97	7.08	6.02	PL2.5-24-130B
	5.0	12 @ 0.42	24 @ 0.21	MT3126-ND	8.60	7.64	6.50	PL5.0-24-130B
	10.0	12 @ 0.84	24 @ 0.42	MT3127-ND	9.47	8.42	7.16	PL10-24-130B
	20.0	12 @ 1.66	24 @ 0.83	MT3128-ND	11.41	10.14	8.62	PL20-24-130B
	30.0	12 @ 2.5	24 @ 1.25	MT3129-ND	13.52	12.02	10.22	PL30-24-130B
	56.0	12 @ 4.66	24 @ 2.33	MT3130-ND	18.14	16.12	13.71	PL56-24-130B
1	2.5	14 @ 0.18	28 @ 0.09	MT3131-ND	7.97	7.08	6.02	PL2.5-28-130B
	5.0	14 @ 0.36	28 @ 0.18	MT3132-ND	8.60	7.64	6.50	PL5.0-28-130B
	10.0	14 @ 0.72	28 @ 0.36	MT3133-ND	9.47	8.42	7.16	PL10-28-130B
	20.0	14 @ 1.44	28 @ 0.72	MT3134-ND	11.41	10.14	8.62	PL20-28-130B
	30.0	14 @ 2.12	28 @ 1.06	MT3135-ND	13.52	12.02	10.22	PL30-28-130B
	56.0	14 @ 4.0	28 @ 2.0	MT3136-ND	18.14	16.12	13.71	PL56-28-130B
1	2.5	18 @ 0.14	36 @ 0.07	MT3137-ND	7.97	7.08	6.02	PL2.5-36-130B
	5.0	18 @ 0.28	36 @ 0.14	MT3138-ND	8.60	7.64	6.50	PL5.0-36-130B
	10.0	18 @ 0.56	36 @ 0.28	MT3139-ND	9.47	8.42	7.16	PL10-36-130B
	20.0	18 @ 1.12	36 @ 0.56	MT3140-ND	11.41	10.14	8.62	PL20-36-130B
	30.0	18 @ 1.64	36 @ 0.82	MT3141-ND	13.52	12.02	10.22	PL30-36-130B
	56.0	18 @ 3.12	36 @ 1.56	MT3142-ND	18.14	16.12	13.71	PL56-36-130B
Fig.	**VA (Size)**	**Sec. #1 VAC @ A**	**Sec. #2 VCT @ A**	**Digi-Key Part No.**	**Price Each* 1**	**10**	**25**	**Tamura Part No.**
				PLT Series — Triple Output				
2	20.0	9.3 @1.5	27.5 @ .22	MT3143-ND†	13.61	12.10	10.29	PLT20-32-130B
	30.0	9.3 @ 2.2	27.5 @ .34	MT3144-ND†	15.77	14.02	11.92	PLT30-32-130B
	56.0	9.3 @4.0	27.5 @ .68	MT3145-ND†	20.52	18.24	15.51	PLT56-32-130B

Note: *To obtain output voltage, load current must be met, ratings based on 120V nominal input.*
† Intended for use as a regulated power supply transformer, 5VDC and ±12VDC.
* Call for price on quantities of 50 or more.

FLAT STACK® Low Profile Power Transformers

For low height PC Board Solid-State Power, Control, and Instrumentation

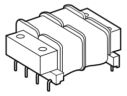

Split Bobbin:

- Primaries and secondaries wound side by side
- High isolation for low leakage applications 1,500Vrms (Pri: Sec) hi-pot
- Low capacity coupling minimizes line noise and false triggering.
- Hum-bucking semi-toroidal construction
- Non-Inherently limited
- Dual primaries: 115/230V, 50/60Hz
- No load to Full Regulation: 30%; 12VA, 20%

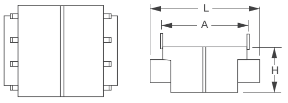

Pin dimensions: 0.091" x 0.2" (2.31mm x .51mm)

UL 506 File #E145619, E79781
130°C Insulation System

CSA22,2 No. 66
File # LR61383-7

130B*
File No. E92957

* 130B for 3FL series only, up to 12VA size

Fig. 1

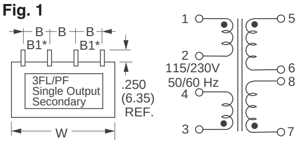

Fig. 2

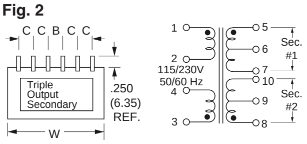

VA (Size)	Dimensions – Inch L	W	H	A	B	B1*	C	Weight Oz. (Gram)
2.5	1.87	1.56	0.65	1.6	.375	—	.187	5 (141.75)
6	1.875	1.56	0.85	1.6	.375	—	.187	7 (198.44)
12	2.5	2.0	1.065	2.0	.500	—	.250	11 (311.84)
24	2.87	2.25	1.25	1.9	.530	.600	.300	15 (425.24)

B1* : For PF Series only.

Fig.	VA (Size)	Secondary RMS Rating Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each* 1	10	25	Tamura Part No.
1	2.5	5.0 @ 0.5	10 @ 0.25	MT1101-ND	8.78	7.80	6.63	3FL10-250
	6.0	5.0 @ 1.2	10 @ 0.6	MT1102-ND	9.63	8.56	7.28	3FL10-600
	12.0	5.0 @ 2.4	10 @ 1.2	MT1103-ND	12.38	11.00	9.35	3FL10-1200
	24.0	5.0 @ 4.8	10 @ 2.4	MT1104-ND	13.73	12.20	10.37	PF24-10
1	2.5	6.3 @ 0.4	12.6 @ 0.2	MT1105-ND	8.78	7.80	6.63	3FL12-200
	6.0	6.3 @ 0.9	12.6 @ 0.45	MT1106-ND	9.63	8.56	7.28	3FL12-475
	12.0	6.3 @ 1.9	12.6 @ 0.95	MT1107-ND	12.38	11.00	9.35	3FL12-950
	24.0	6.3 @ 3.8	12.6 @ 1.9	MT1108-ND	13.73	12.20	10.37	PF24-12
1	2.5	8 @ 0.3	16 @ 0.15	MT1109-ND	8.78	7.80	6.63	3FL16-150
	6.0	8 @ 0.7	16 @ 0.35	MT1110-ND	9.63	8.56	7.28	3FL16-350
	12.0	8 @ 1.5	16 @ 0.75	MT1111-ND	12.38	11.00	9.35	3FL16-700
	24.0	8 @ 3.0	16 @ 1.5	MT1112-ND	13.73	12.20	10.37	PF24-16
1	2.5	10 @ 0.25	20 @ 0.125	MT1113-ND	8.78	7.80	6.63	3FL20-125
	6.0	10 @ 0.6	20 @ 0.3	MT1114-ND	9.65	8.58	7.30	3FL20-300
	12.0	10 @ 1.2	20 @ 0.6	MT1115-ND	12.38	11.00	9.35	3FL20-600
	24.0	10 @ 2.4	20 @ 1.2	MT1116-ND	13.73	12.20	10.37	PF24-20
1	2.5	12 @ 0.2	24 @ 0.1	MT1117-ND	8.78	7.80	6.63	3FL24-100
	6.0	12 @ 0.5	24 @ 0.25	MT1118-ND	9.63	8.56	7.28	3FL24-250
	12.0	12 @ 1.0	24 @ 0.5	MT1119-ND	12.38	11.00	9.35	3FL24-500
	24.0	12 @ 2.0	24 @ 1.0	MT1120-ND	13.73	12.20	10.37	PF24-24
1	2.5	15 @ 0.17	30 @ 0.085	MT1121-ND	8.78	7.80	6.63	3FL30-85
	6.0	15 @ 0.4	30 @ 0.2	MT1122-ND	9.63	8.56	7.28	3FL30-200
	12.0	15 @ 0.8	30 @ 0.4	MT1123-ND	12.38	11.00	9.35	3FL30-400
	24.0	15 @ 1.6	30 @ 0.8	MT1124-ND	13.73	12.20	10.37	PF24-30
1	2.5	17 @ 0.15	34 @ .075	MT1125-ND	8.78	7.80	6.63	3FL34-75
	6.0	17 @ 0.34	34 @ 0.17	MT1126-ND	9.63	8.56	7.28	3FL34-170
	12.0	17 @ 0.7	34 @ 0.35	MT1127-ND	12.38	11.00	9.35	3FL34-340
	24.0	17 @ 1.4	34 @ 0.7	MT1128-ND	13.73	12.20	10.37	PF24-34
Fig.	**VA (Size)**	**Sec. #1 VCT @ A**	**Sec. #2 VCT @ A**	**Digi-Key Part No.**	**Price Each* 1**	**10**	**25**	**Tamura Part No.**
				PFT Series — Triple Output				
2	6.0	17.5 @ .155	31.5@ .065	MT1129-ND†	9.90	8.80	7.48	PFT6-32
	6.0	17.5 @ .155	37.5 @ .060	MT1130-ND†	9.90	8.80	7.48	PFT6-38
	12.0	16 @ .36	28 @ .187	MT1132-ND†	12.49	11.10	9.44	PFT12-28
	12.0	16 @ .36	35 @ .150	MT1131-ND†	12.49	11.10	9.44	PFT12-35
	24.0	16 @ .72	28 @ .375	MT1134-ND†	13.84	12.30	10.46	PFT24-28
	24.0	16 @ .72	35 @ .300	MT1133-ND†	15.38	12.30	10.46	PFT24-35

Note: *To obtain output voltage, load current must be met, ratings based on 120V nominal input.*
† Intended for use as a regulated power supply transformer, 5VDC, and ± 12VDC or ± 15VDC.
* Call for price on quantities of 50 or more.

Encapsulated Transformers — MIL-T-27 Type

Telecom, Input, Interface, Isolation and Output Impedance Matching

Features:
• FCC Part 68 Models available ‡ • Dielectric Strength: 1kVrms • Operating Temperature: ≤105°C • Frequency Response: ±2dB, .3≈100kHz.

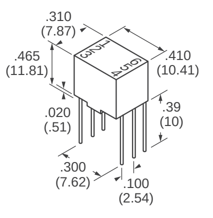

Physical pin locations vary,see chart.

Matching Impedance Primary : Secondary	Primary § (maDC)	Max. Power @ 300Hz (mW)	Pin Location Primary	Pin Location Secondary	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Tamura Part No.
200kCT : 1kCT	0.00	10	1 - 2CT - 3	4 - 5CT - 6	MT4143-ND	14.58	12.96	11.02	MET-01
25kCT : 1kCT	0.50	30	1 - 2CT - 3	4 - 5CT - 6	MT4144-ND	16.45	14.62	12.43	MET-05
10kCT : 10kCT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4145-ND	10.94	9.72	8.27	MET-09
10kCT : 2kCT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4146-ND	12.85	11.42	9.71	MET-11
10kCT : 500CT	1.00	40	1 - 2CT - 3	4 - 5CT - 6	MT4147-ND	16.45	14.62	12.43	MET-17
1.6kCT : 3.2	2.50	50	1 - 2CT - 3	4 - 6	MT4148-ND	13.73	12.20	10.37	MET-23
1k : 50	3.00	50	1 - 3	4 - 6	MT4149-ND	12.56	11.16	9.49	MET-28
900CT : 600	3.00	50	1 - 2CT - 3	4 - 6	MT4150-ND‡	15.01	13.34	11.34	MET-29
600CT : 600CT	3.00	50	1 - 2CT - 3	4 - 5CT - 6	MT4111-ND‡	13.73	12.20	10.37	MET-31
600 : 600CT†	3.00	50	1 - 2	3 - 4 / 5 - 6	MT4151-ND	11.97	10.64	9.05	MET-32
600CT : 8	4.50	50	1 - 2CT - 3	4 - 6	MT4153-ND	12.98	11.54	9.81	MET-35
500 : 500CT†	3.00	50	1 - 2	3 - 4 / 5 - 6	MT4154-ND	11.00	9.78	8.32	MET-38
500 : 50	3.00	50	1 - 3	4 - 6	MT4155-ND	10.08	8.96	7.62	MET-39
150 : 12	10.00	50	1 - 3	4 - 6	MT4156-ND	13.57	12.06	10.26	MET-42
600 : 600	3.00	50	1 - 3	4 - 6	MT4110-ND‡	12.17	10.82	9.20	MET-46
600 : 600CT	3.00	50	1 - 2	3 - 4 / 5 - 6	MT4152-NDΔ	14.63	13.00	11.05	MET-59
MU Metal Shield, MET Series, Slip-On Can					MT4157-ND	6.39	5.68	4.83	METC-99

† CT-Winding can be connected as a center tapped winding or as two isolated windings.
§ PRI maDC-Primary maximum rated unbalanced current in milli-amps, DC.
Δ Has special pinout
‡ Meets FCC part 68 (hi-pot 1.5kV or 1.0kV).

Telephone Coupling Transformers

UL1950 3rd Edition Safety Approval**: This product meets the UL 1950 standard in telecom agency safety ratings, this implies that they meet new creepage and clearance distance requirements of the telecommunication industry and safety agencies. UL #E208555

Note: Drawings show maximum number of pins, actual parts may have fewer pins

UL 1459 Safety Approval: UL1459 is a trusted safety standard for interconnecting data/ voice communication lines and other isolation designs. • **Frequency Response:** 300 ~ 3,500Hz ±0.5dB • **Impedance Matching:** ±10%
UL1459, FFC part 68, File #138028

Fig. 1

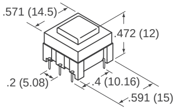

Fig. 2

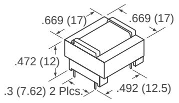

Fig. 3

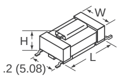

	Dim. in Inch (mm) L	W	H
MT7240-ND (TTC-511)	.681 (17.3)	.390 (9.9)	.193 (4.9)
MT7208-ND (TTC-5021)	.642 (16.3)	.335 (08.5)	.200 (5.08)
MT7241-ND (TTC-512)	.665 (16.9)	.390 (9.9)	.181 (4.6)

Fig. 4

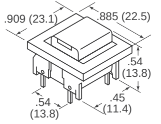

Fig. 5

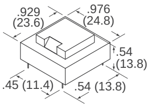

Fig. 6

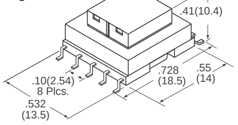

Fig. 7

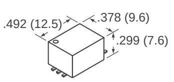

Fig. 8

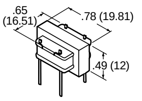

Fig. 9

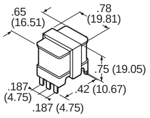

Fig. 10

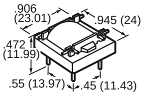

Fig. 11 - Surface Mount

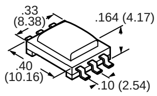

Fig. 12

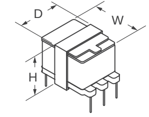

	Dimensions Inch (mm): W	D	H
MT4139-ND (TTC-167)	.69 (17.5)	.61 (15.5)	.55 (14.0)
MT4140-ND (TTC-170)	.51 (13.0)	53 (13.4)	.42 (10.7)

Fig.	Impedance (Ω) Primary	Impedance (Ω) Secondary	IDC Bias (mA)	Insertion Loss (dB) ◊	Sche-matic	Pinout Primary	Pinout Secondary	Dielectric Stength Vrms (Pri./Sec.)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Tamura Part No.
UL1950 3rd Edition Safety Approval																
1	600	348	0	3.25	A	1* - 3	4 - 6*	1,875	MT7231-ND	3.73	2.98	2.39	—	—	—	TTC-5014
	600	392	0	2.20	A	1* - 3	4 - 6*	1,875	MT7232-ND	3.73	2.98	2.39	—	—	—	TTC-5015
	600	560	0	1.50	A	1* - 3	4 - 6*	1,875	MT7233-ND	3.73	2.98	2.39	—	—	—	TTC-5016
	600	600	0	1.50	A	1* - 3	4 - 6*	1,875	MT7207-ND	3.73	2.98	2.39	—	—	—	TTC-5017
	600	600CT	0	1.20	C	1* - 3	4 - 5* - 6*	1,850	MT7205-ND	5.63	4.50	3.60	—	—	—	TTC-294
2	600	600	0	1.00	A	1 - 3*	4* - 6	1,875	MT7213-ND	3.53	2.82	2.26	—	—	—	TTC-5029
3	600	287	0	3.80	A	1 - 2*	3* - 4	1,875	MT7240CT-ND†	3.19	2.94	2.45	MT7240TR-ND	800	1254.40	TTC-511
	600	287	0	3.85	A	1 - 2*	3* - 4	1,875	MT7208CT-ND†	4.52	4.17	3.48	MT7208TR-ND	800	1779.20	TTC-5021
	600	510	0	1.25	A	1* - 2	3* - 4	1,875	MT7241CT-ND†	3.25	3.00	2.50	MT7241TR-ND	800	1280.00	TTC-512
4	600	260	50	4.00	A	1 - 2*	3* - 4	1,875	MT7235-ND	1.15	.92	.74	—	—	—	TTC-5019
	600	301	0	3.25	A	1* - 2	3 - 4*	1,875	MT7220-ND	3.00	2.40	1.92	—	—	—	TTC-5000
	600	301	65	3.50	A	1 - 2*	3* - 4	1,875	MT7230-ND	5.18	4.14	3.32	—	—	—	TTC-5013
	600	301	65	3.75	A	1* - 2	3 - 4*	1,875	MT7236-ND	3.00	2.40	1.92	—	—	—	TTC-5020
	600	374	0	2.00	A	1 - 2*	3* - 4	1,875	MT7237-ND	3.60	2.88	2.31	—	—	—	TTC-5022
	600	374	0	2.50	A	1* - 2	3 - 4*	1,875	MT7227-ND	3.00	2.40	1.92	—	—	—	TTC-5008
	600	470	30	2.50	A	1 - 2*	3* - 4	1,875	MT7212-ND	1.25	1.00	.80	—	—	—	TTC-5028
	600	530	0	1.00	A	1* - 2	3 - 4*	1,875	MT7228-ND	3.00	2.40	1.92	—	—	—	TTC-5009
	600	600	0	0.75	A	1* - 2	3 - 4*	1,875	MT7234-ND	3.00	2.40	1.92	—	—	—	TTC-5018
5	600	301	0	3.25	A	1* - 2	3 - 4*	3,750	MT7221-ND	3.25	2.60	2.08	—	—	—	TTC-5001
	600	301	65	3.75	A	1* - 2	3 - 4*	3,750	MT7206-ND	3.45	2.76	2.21	—	—	—	TTC-5010
	600	374	0	2.50	A	1* - 2	3 - 4*	3,750	MT7225-ND	3.25	2.60	2.08	—	—	—	TTC-5006
	600	530	0	1.00	A	1* - 2	3 - 4*	3,750	MT7226-ND	3.25	2.60	2.08	—	—	—	TTC-5007
	600	600	0	0.75	A	1* - 2	3 - 4*	3,750	MT7229-ND	3.25	2.60	2.08	—	—	—	TTC-5012
6	600	320	0	3.20	A	1* - 4	7 - 10*	1,875	MT7222CT-ND†	4.84	4.47	3.73	MT7222TR-ND	250	596.00	TTC-5003
	600	392	0	2.20	A	1* - 4	7 - 10*	1,875	MT7223CT-ND†	4.84	4.47	3.73	MT7223TR-ND	250	596.00	TTC-5004
	600	525	0	1.60	A	1* - 4	7 - 10*	1,875	MT7224CT-ND†	4.84	4.47	3.73	MT7224TR-ND	200	476.80	TTC-5005
	600	490CT	0	1.50	D	1*- 4 /2*- 5	6 - 8*-10*	1,875	MT7210CT-ND†	4.84	4.47	3.73	MT7210TR-ND	250	596.00	TTC-5026
7	600	287	0	4.00+	A	1* - 3	4 - 6*	1,875	MT7218CT-ND†	3.84	3.54	2.95	MT7218TR-ND	400	755.20	TTC-5036
	600	330	0	3.00+	A	1* - 3	4 - 6*	1,875	MT7239CT-ND†	3.38	3.12	2.60	MT7239TR-ND	400	665.60	TTC-5024
	600	346	0	3.00+	A	1* - 3	4 - 6*	1,875	MT7217CT-ND†	3.84	3.54	2.95	MT7217TR-ND	400	755.20	TTC-5035
	600	430	0	3.50+	A	1* - 3	4 - 6*	1,875	MT7209CT-ND†	3.84	3.54	2.95	MT7209TR-ND	400	755.20	TTC-5025
	600	530	0	2.00+	A	1* - 3	4 - 6*	1,875	MT7219CT-ND†	3.84	3.54	2.95	MT7219TR-ND	400	755.20	TTC-5037
	600	470	0	2.50+	A	1* - 3	4 - 6*	1,875	MT7214CT-ND†	3.84	3.54	2.95	MT7214TR-ND	400	755.20	TTC-5032
	600	600	0	2.00+	A	1* - 3	4 - 6*	3,000	MT7238CT-ND†	3.38	3.12	2.60	MT7238TR-ND	400	665.60	TTC-5023
	10K	10K	0	0.88+	A	1* - 3	4 - 6*	1,875	MT7215CT-ND†	3.84	3.54	2.95	MT7215TR-ND	400	755.20	TTC-5033
	20K	20K	0	0.92+	A	1* - 3	4 - 6*	1,875	MT7216CT-ND†	3.84	3.54	2.95	MT7216TR-ND	400	755.20	TTC-5034
	30K	30K	0	1.06+	A	1* - 3	4 - 6*	1,875	MT7211CT-ND†	4.84	4.47	3.73	MT7211TR-ND	400	953.60	TTC-5027
UL1459 Safety Approval																
8	600	600	0	1.0	A	1 - 3*	4 - 6*	1,500	MT4112-ND	5.60	4.98	4.24	—	—	—	T1104
	600	600	0	1.2	A	1 - 3	4 - 6*	1,500	MT4133-ND	2.16	1.92	1.64	—	—	—	TTC-02
9	600	600	90	2.0	A	1 - 3*	4 - 6*	1,500	MT4134-ND‡	2.16	1.92	1.64	—	—	—	TTC-105
	600	600CT	90	2.0	C	1 - 3	4-5CT-6*	1,500	MT4135-ND‡	2.27	2.02	1.72	—	—	—	TTC-105-1
	600CT	600CT	0	1.2	B	1*-2CT-3	4*-5CT-6	1,500	MT4136-ND	1.49	1.32	1.13	—	—	—	TTC-108
10	600	470	100	2.5	A	1 - 2*	3* - 4	1,500	MT4123-ND	1.51	1.34	1.14	—	—	—	TTC-264
11	600	346	0	2.75	A	1* - 3	4 - 6*	1,000	MT4122-ND	12.35	10.98	9.34	—	—	—	TTC-203SL
12	10K	10K	0	1.4	A	1 - 3*	4 - 6*	1,000	MT4139-ND‡	5.11	4.54	3.86	—	—	—	TTC-167
	600	600	0	1.7	A	1 - 3*	4 - 6*	1,500	MT4140-ND‡	2.70	2.40	2.04	—	—	—	TTC-170

Schematic A

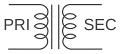

Schematic B

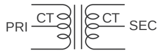

Schematic C

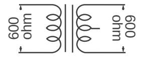

Schematic D

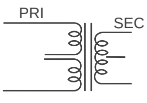

** Additional Safety Agency approvals may apply, UL60950/EN60950, see data sheet for qualifications
◊ Typical insertion loss (IL) in dB @ rated unbalanced maDC, 0dBm and 1kHz
* Denotes start of a winding
† Cut Tape
+ Insertion Loss is tested @ 2KHz
‡ Has a 4-pin configuration

TAMURA

Wall Mount Transformers

2.1mm I.D. x 5.5mm O.D. Female/Right Angle Connector

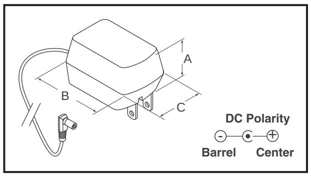

Specifications: • **Cord Length:** 1830 +150/-0.0mm (6ft) Minimum • **Output Receptacle:** 2.1mm I.D. x 5.5mm O.D. x 12.50mm Barrel length, Right Angle (molded) Female Barrel Connector/Nickel Plated • **Load Regulation:** None • **Electrical Specifications:** Input-AC 120V ±10%, 60Hz ±0.5Hz • **Operating Temperature:** -10°C ~ 40°C • **Storage Temperature:** -20°C ~ 85°C • **Humidity:** 0 to 95% without condensation • **Withstand Voltage:** 1500Vrms 1 minute @input to output • **Safety Agencies:** UL 1310 and cUL File No. E218172 • Class II

Size Code	Dimensions mm (Inch) A	B	C	Tamura Series
1	35.50±1.0 (1.398±0.039)	63.50±1.0 (2.50±0.039)	40.00±1.0 (1.575±0.039)	212AS
2	43.00±1.0 (1.69±0.039)	70.00±1.0 (2.756±0.039)	46.00±1.0 (1.811±0.039)	318AS
3	46.50±1.0 (1.83±0.039)	72.00±1.0 (2.835±0.039)	52.00±1.0 (2.047±0.039)	420AS
4	52.50±1.0 (2.067±0.039)	91.00±1.0 (3.58±0.039)	58.00±1.0 (2.28±0.039)	830AS
5	62.00 (2.441)NOM	103.00 (4.055)	62.00 (2.441)	835AS

Size Code	Ratings Volt.	mA	Digi-Key Part No.	Price Each 1	10	25	100	Tamura Part No.
			AC Output					
1	12VAC	125	MT7117-ND	5.66	4.82	3.94	3.68	212AS12012
2		375	MT7118-ND	6.26	5.28	4.32	4.08	318AS12037
3		750	MT7119-ND	6.55	6.41	5.25	4.26	420AS12075
4		1A	MT7166-ND	9.95	8.46	7.47	6.47	830AS12100
5		1.5A	MT7120-ND	12.97	11.91	9.75	8.43	835AS12150
1	16VAC	100	MT7121-ND	5.85	4.73	3.87	3.81	212AS16010
2		300	MT7122-ND	5.72	5.28	4.32	3.72	318AS16030
3		560	MT7123-ND	7.05	6.47	5.29	3.84	420AS16056
4		900	MT7168-ND	9.91	8.42	7.43	6.44	830AS16090
5		1.125A	MT7124-ND	11.82	10.84	8.87	6.97	835AS16112
1	20VAC	75	MT7125-ND	5.16	4.73	3.87	3.36	212AS20007
2		225	MT7126-ND	5.73	5.28	4.32	3.73	318AS20022
3		450	MT7127-ND	6.99	6.41	5.25	3.82	420AS20045
4		800	MT7170-ND	10.04	8.54	7.54	6.53	830AS20080
5		900	MT7128-ND	11.88	10.89	8.91	7.03	835AS20090
1	24VAC	60	MT7129-ND	5.15	4.73	3.87	3.36	212AS24006
2		200	MT7130-ND	5.74	5.28	4.32	3.73	318AS24020
3		375	MT7131-ND	8.52	6.30	5.16	4.58	420AS24037
4		700	MT7172-ND	9.98	8.49	7.49	6.49	830AS24070
5		750	MT7132-ND	11.88	10.89	8.91	7.03	835AS24075

Size Code	Ratings Volt.	mA	Digi-Key Part No.	Price Each 1	10	25	100	Tamura Part No.
			DC Output					
1	3VDC	320	MT7133-ND	5.88	5.39	4.41	3.83	212AS03032
2		1A	MT7134-ND	8.33	7.65	6.26	5.41	318AS03100
4		1.75A	MT7161-ND	12.57	10.69	9.43	8.17	830AS03175
1	4.5VDC	250	MT7135-ND	5.74	5.26	4.30	3.74	212AS04025
2		700	MT7136-ND	6.85	6.27	5.13	4.46	318AS04070
3		1A	MT7137-ND	8.77	8.06	6.60	5.71	420AS04100
4		1.5A	MT7162-ND	13.36	11.36	10.03	8.69	830AS04150
1	6VDC	200	MT7138-ND	5.73	5.26	4.30	3.74	212AS06020
2		500	MT7139-ND	6.60	6.05	4.95	4.30	318AS06050
3		900	MT7140-ND	8.70	7.98	6.53	5.65	420AS06090
4		1.25A	MT7163-ND	13.12	11.16	9.84	8.53	830AS06125
1	9VDC	125	MT7141-ND	5.61	5.15	4.21	3.65	212AS09012
2		350	MT7142-ND	6.59	6.05	4.95	4.29	318AS09035
3		600	MT7143-ND	7.66	7.04	5.76	4.99	420AS09060
4		1A	MT7164-ND	11.43	9.72	8.58	7.43	830AS09100
5		1.4A	MT7144-ND	16.00	14.69	12.02	10.41	835AS09140
1	12VDC	100	MT7145-ND	5.65	5.20	4.26	3.68	212AS12010
2		300	MT7146-ND	6.41	5.89	4.82	4.17	318AS12030
3		500	MT7147-ND	7.94	7.29	5.97	5.16	420AS12050
4		800	MT7165-ND	11.49	9.77	8.62	7.47	830AS12080
5		1A	MT7148-ND	14.05	12.90	10.56	9.14	835AS12100
1	15VDC	75	MT7149-ND	5.72	5.20	4.26	3.73	212AS15007
2		250	MT7150-ND	6.53	5.78	4.73	4.25	318AS15025
3		400	MT7151-ND	7.89	7.24	5.92	5.00	420AS15040
4		700	MT7167-ND	11.00	9.35	8.25	7.16	830AS15070
5		800	MT7152-ND	13.98	12.82	10.49	9.09	835AS15080
1	18VDC	60	MT7153-ND	5.79	5.31	4.35	3.44	212AS18006
2		200	MT7154-ND	6.49	5.97	4.89	4.22	318AS18020
3		350	MT7155-ND	8.46	7.76	6.35	4.80	420AS18035
4		600	MT7169-ND	11.17	9.49	8.38	7.26	830AS18060
5		700	MT7156-ND	14.07	12.90	10.56	9.15	835AS18070
1	24VDC	50	MT7157-ND	6.00	5.50	4.50	3.43	212AS24005
2		150	MT7158-ND	6.43	5.89	4.82	4.18	318AS24015
3		250	MT7159-ND	8.76	6.99	5.72	5.70	420AS24025
4		450	MT7171-ND	10.54	8.97	7.92	6.86	830AS24045
5		500	MT7160-ND	13.23	12.13	9.93	8.60	835AS24050

Note: Output voltage shown is at full load current.

Encapsulated SCR and Triac Trigger Transformers

Designed for isolation in half and full wave SCR or TRIAC control circuits. Pass 2600V rms dielectric breakdown testing.

Sche-matic No.	Turns Ratio (±5%)	Primary mH (min.)	E.T. V μSec (min.)	Digi-Key Part No.	Price Each 1	10	25	Tamura Part No.
2	1 : 1 : 1	1.0	90	MT4304-ND	18.45	16.40	13.94	STT-104
1	2 : 1	1.0	90	MT4307-ND	15.98	14.20	12.07	STT-107
1	2 : 1	10.0	280	MT4309-ND	11.79	10.48	8.91	STT-109
2	2 : 1 : 1	1.0	90	MT4310-ND	11.54	10.26	8.73	STT-110
2	2 : 1 : 1	5.0	200	MT4311-ND	11.79	10.48	8.91	STT-111
2	2 : 1 : 1	10.0	280	MT4312-ND	11.79	10.48	8.91	STT-112

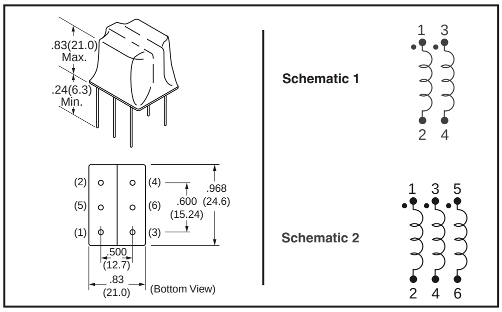

Encapsulated Pulse Transformers

Isolation and Data Interface

Specifications: • **Average Power Rating (40°C Rise):** 500mW • **Dissipation Rating:** 150mW • **Peak Pulse Voltage:** 100V • **Dielectric Strength:** DC500V 1 minute • **Insulation Resistance:** DC500V 10000MΩ minimum

Primary Inductance mH (min.)*	Primary ET Product V μS (min.)	Rise Time ns (max.)	Pin Out Primary	Secondary	Tertiary	Turns Ratio (±5%) Pri : Sec : Ter	Digi-Key Part No.	Price Each 1	10	25	Tamura Part No.
5.00	25.0	10.5	1, 2	3, 4	5, 6	1 : 1 : 1	MT4201-ND	4.88	4.34	3.69	G500
0.50	8.5	5.3	1, 2	3, 4	5, 6	1 : 1 : 1	MT4203-ND	3.11	2.76	2.35	G502
0.20	5.0	4.2	1, 2	3, 4	5, 6	1 : 1 : 1	MT4204-ND	2.97	2.64	2.25	G503
0.05	5.2	5.6	1, 2	3, 4	5, 6	1 : 1 : 1	MT4205-ND	2.97	2.64	2.25	G504
5.00	25.0	16.0	1, 2	3, 4	5, 6	2 : 1 : 1	MT4210-ND	6.57	5.84	4.97	G505
2.00	16.0	11.0	1, 2	3, 4	5, 6	2 : 1 : 1	MT4211-ND	5.78	5.14	4.37	G506
0.50	8.5	5.6	1, 2	3, 4	5, 6	2 : 1 : 1	MT4212-ND	3.04	2.70	2.30	G507
2.00	16.0	8.2	1, 3ct, 5	2, 4ct, 6	—	1ct : 1ct	MT4207-ND	3.22	2.86	2.44	G508
0.50	8.5	5.3	1, 3ct, 5	2, 4ct, 6	—	1ct : 1ct	MT4208-ND	3.11	2.76	2.35	G509
2.00	16.0	11.0	1, 3ct, 5	2, 4ct, 6	—	2ct : 1ct	MT4213-ND	3.44	3.06	2.61	G512
1.20	10.0	5.3	1, 2	3, 4	5, 6	1 : 1 : 1	MT4206-ND	3.44	3.06	2.61	G513
0.20	5.0	3.2	1, 3ct, 5	2, 4ct, 6	—	2ct : 1ct	MT4214-ND	3.78	3.36	2.86	G515
0.50	8.5	5.6	1, 2	3, 4	—	1 : 1.3	MT4209-ND	4.64	4.12	3.51	G516

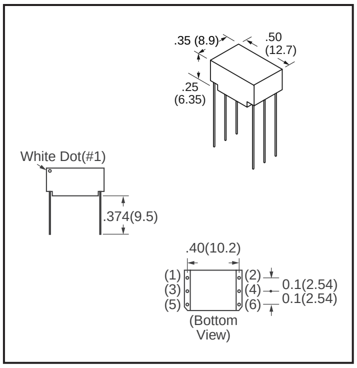

* Primary Inductance is typical primary open circuit inductance.

TRANS era Electronics Inc.

Encapsulated Power Transformers

Encapsulated transformers have added advantages over non-encapsulated transformers. Reduced winding temperature differential due to heat transfer capability of the epoxy. Have a greater VA to Volume ratio which results in cooler and/or smaller transformers. Increased insulation reliability due to use of epoxy in place of tape/paper insulation. Encapsulation also increases shock/vibration and humidity/moisture resistance of the part.

Electrical Parameters: • Temperature: 70°C • Short Circuit Proof (unless otherwise noted) • Hi-Pot tested: 4KV primary to secondary • Frequency: 50/60Hz

Additional Agency Approvals (See chart below)

1	2	3	4	5
VDE	S	S	ENEC 10	FI

Fig. 1 - Mini Line Series

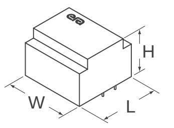

Fig. 2 - Print Line Series

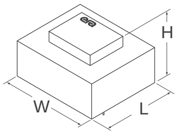

Fig. 3 - Low Profile Series

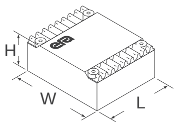

Dual Winding Connection Possibilities

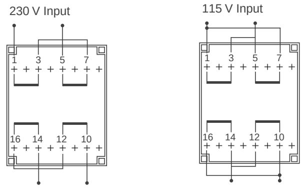

Series Connection

Parallel Connection

Fig.	VA	Primary Voltage (VAC)	Secondary Voltage Ratings: Parallel Connection (VAC @ mA)	Secondary Voltage Ratings: Series Connection (VAC @ mA)	Additional Agency Approvals	Dimensions Inches (mm): L	W	H	Digi-Key Part No.	Price Each: 1	10	25	TransERA Part No.
Single Primary / Single Secondary													
1	0.08	115	6 @ 13.30		2	0.87 (22)	0.90 (23)	0.472 (12)	567-1000-ND	5.72	5.16	4.58	BV020-5470.0
1	0.35		6 @ 58.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1004-ND	4.63	4.17	3.71	BV020-5411.0
1	0.50		6 @ 83.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1013-ND	4.92	4.43	3.94	BV020-5370.0
2	1		9 @ 111		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.87 (22)	567-1025-5-ND	4.28	3.86	3.43	BV030-7221.0
2	1.5		9 @ 166		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1030-5-ND	4.31	3.88	3.45	BV030-7151.0
2	2.3	115	9 @ 256		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1035-5-ND*	5.08	4.58	4.07	BV030-7329.0
2	2.8		9 @ 311		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.34 (34)	567-1040-5-ND*	6.02	5.42	4.82	BV030-7597.0
1	0.08		12 @ 6.67		2	0.87 (22)	0.90 (23)	0.472 (12)	567-1001-ND	5.72	5.16	4.58	BV020-5472.0
1	0.35		12 @ 29.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1005-ND	4.63	4.17	3.71	BV020-5413.0
1	0.50		12 @ 42.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1014-ND	4.92	4.43	3.94	BV020-5372.0
2	1.2	115	12 @ 100		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1028-5-ND	4.28	3.86	3.43	BV030-7258.0
2	1.5		12 @ 125		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1031-5-ND	4.31	3.88	3.45	BV030-7136.0
1	0.35		24 @ 14.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1006-ND	4.63	4.17	3.71	BV020-5416.0
1	0.50		24 @ 21.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1015-ND	4.92	4.43	3.94	BV020-5375.0
1	0.08	230	6 @ 13.30		2	0.87 (22)	0.90 (23)	0.472 (12)	567-1002-ND	5.72	5.16	4.58	BV020-5480.0
1	0.35		6 @ 58.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1010-ND	4.63	4.17	3.71	BV020-5423.0
1	0.50		6 @ 83.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1019-ND	4.92	4.43	3.94	BV020-5382.0
2	1		9 @ 111		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.87 (22)	567-1027-5-ND	4.28	3.86	3.43	BV030-7233.0
2	1.5		9 @ 166		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1032-5-ND	4.31	3.88	3.45	BV030-7162.0
2	2	230	9 @ 222		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.06 (27)	567-1034-5-ND*	4.68	4.22	3.75	BV030-7305.0
2	2.3		9 @ 256		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1038-5-ND*	5.08	4.58	4.07	BV030-7341.0
2	2.8		9 @ 311		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.34 (34)	567-1042-5-ND*	6.02	5.42	4.82	BV030-7585.0
2	5		9 @ 556		1, 2, 3, 4, 5	1.79 (45.5)	1.52 (38.5)	1.26 (32)	567-1046-ND*	8.53	7.68	6.83	BV042-5190.0
1	0.08		12 @ 6.67		2	0.87 (22)	0.90 (23)	0.472 (12)	567-1003-ND	5.72	5.16	4.58	BV020-5482.0
1	0.35	230	12 @ 29.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1011-ND	4.63	4.17	3.71	BV020-5425.0
1	0.50		12 @ 42.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1020-ND	4.92	4.43	3.94	BV020-5384.0
2	1		12 @ 84		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.87 (22)	567-1026-5-ND	4.28	3.86	3.43	BV030-7234.0
2	1.2		12 @ 100		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	0.94 (24)	567-1029-5-ND	4.28	3.86	3.43	BV030-7270.0
2	2.3		12 @ 192		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1036-5-ND*	5.08	4.58	4.07	BV030-7342.0
2	2.8	230	12 @ 233		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.34 (34)	567-1041-5-ND*	6.02	5.42	4.82	BV030-7586.0
	5		12 @ 417		1, 2, 3, 4, 5	1.79 (45.5)	1.52 (38.5)	1.26 (32)	567-1043-ND*	8.53	7.68	6.83	BV042-5193.0
	5		15 @ 334		1, 2, 3, 4, 5	1.79 (45.5)	1.52 (38.5)	1.26 (32)	567-1045-ND*	8.53	7.68	6.83	BV042-5196.0
	2		18 @ 111		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.06 (27)	567-1033-5-ND*	4.68	4.22	3.75	BV030-7308.0
	5		18 @ 278		1, 2, 3, 4, 5	1.79 (45.5)	1.52 (38.5)	1.26 (32)	567-1044-ND*	8.53	7.68	6.83	BV042-5199.0
1	0.35	230	24 @ 14.0		1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1012-ND	4.63	4.17	3.71	BV020-5428.0
1	0.50		24 @ 21.0		1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1021-ND	4.92	4.43	3.94	BV020-5387.0
2	2.3		24 @ 96		1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1037-5-ND*	5.08	4.58	4.07	BV030-7345.0
Single Primary / Dual Secondary													
1	0.35	115	6 @ 58.0	12 @ 29.0	1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1007-ND	5.27	4.75	4.22	BV020-5417.0
	0.50		6 @ 84.0	12 @ 42.0	1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1016-ND	5.56	5.01	4.46	BV020-5376.0
	0.35		12 @ 28.0	24 @ 14.0	1, 2, 4	0.87 (22)	0.90 (23)	0.60 (15)	567-1008-ND	5.27	4.75	4.22	BV020-5419.0
	0.50		12 @ 42.0	24 @ 21.0	1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1017-ND	5.56	5.01	4.46	BV020-5378.0
	0.35		24 @ 14.0	48 @ 7.0	—	0.87 (22)	0.90 (23)	0.60 (15)	567-1009-ND	5.27	4.75	4.22	BV020-5422.0
	0.50		24 @ 20.0	48 @ 10.0	—	0.87 (22)	0.90 (23)	0.75 (19)	567-1018-ND	5.56	5.01	4.46	BV020-5381.0
1	0.50	230	6 @ 84.0	12 @ 42.0	1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1022-ND	5.56	5.01	4.46	BV020-5388.0
2	2.3		9 @ 256	18 @ 128	1, 2, 3, 4, 5	1.28 (32.5)	1.08 (27.5)	1.14 (29)	567-1039-5-ND*	5.72	5.16	4.58	BV030-7347.0
1	0.50		12 @ 42.0	24 @ 21.0	1, 2, 4	0.87 (22)	0.90 (23)	0.75 (19)	567-1023-ND	5.56	5.01	4.46	BV020-5390.0
2	10		12 @ 832	24 @ 416	1, 2, 3, 4, 5	2.00 (50.5)	1.67 (42.5)	1.36 (34.5)	567-1047-ND*†	10.46	9.42	8.37	BV048-5216.0
1	0.50		24 @ 20.0	48 @ 10.0	—	0.87 (22)	0.90 (23)	0.75 (19)	567-1024-ND	5.56	5.01	4.46	BV020-5393.0
Dual Primary / Dual Secondary													
3	6	115/230	9 @ 666	18 @ 333	1, 2, 3, 4, 5	1.73 (44)	2.09 (53)	0.87 (22)	567-1048-ND*†	11.56	10.40	9.25	BV030-7007.0
	4		12 @ 332	24 @ 166	1, 2, 3, 4, 5	1.73 (44)	2.09 (53)	0.75 (19)	567-1050-ND*†	10.89	9.80	8.71	BV030-6941.0
	10		12 @ 832	24 @ 416	1, 2, 3, 4, 5	1.73 (44)	2.09 (53)	1.10 (28)	567-1049-ND*†	13.32	11.99	10.66	BV030-7079.0
	14		12 @ 1.166A	24 @ 583	1, 2, 3, 4, 5	2.24 (57)	2.68 (68)	0.95 (24)	567-1051-ND*	16.69	15.03	13.36	BV039-5101.0
	24		12 @ 2A	24 @ 1A	1, 2, 3, 4, 5	2.24 (57)	2.68 (68)	1.22 (31)	567-1052-ND*†	19.63	17.68	15.71	BV039-5239.0
	30		12 @ 2.5A	24 @ 1.25A	1, 2, 3, 4, 5	2.24 (57)	2.68 (68)	1.38 (35)	567-1054-ND*†	20.76	18.69	16.61	BV039-5308.0
	30		15 @ 2A	30 @ 1A	1, 2, 3, 4, 5	2.24 (57)	2.68 (68)	1.38 (35)	567-1053-ND*†	20.76	18.69	16.61	BV039-5311.0

* Not Short Circuit Proof † Temperature rating is 40°C

AMVECO
TOROIDAL POWER PRODUCTS

“Mini” Toroidal Transformer

UL File #E122978

Wire Leaded 115/230VAC, 50/60 Hz Dual Primary

Lower strayfield, higher efficiency, reduced “standby” current and reduced weight.

• Safety standard certification (UL 506) • UL certifications to 40°C (1.6VA-25VA) • Hipot testing at 4000V between primary and secondary

Ambient operating temperature: 60°C maximum. Insulation system recognized for Class A (105°C) and meets all requirements of Class E (125°C).

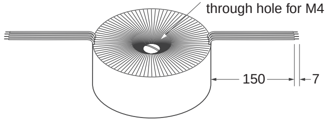
Epoxy potted center with through hole for M4 Bolt

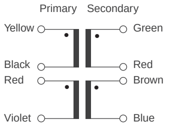

Power VA	Dimensions OD x ID x H mm	Weight Total g	Reg. ΔV/Sec %	Δt °C	Eff. %	No Load mA	230V Fuse* mA	Max. Secondary Range				
								VA	Reg. ΔV/Sec %	Δt °C	Eff. %	230V Fuse* mA
1.6	37.5 x 7.0 x 17.0	71	29	10	77	1	32	2.0	60	30	60	32
3.2	42.0 x 7.0 x 17.5	89	41	20	70	1.5	32	3.7	80	40	50	50
5.0	47.0 x 6.0 x 18.0	115	45	29	70	2	50	5.5	80	40	50	63
7.0	47.0 x 6.0 x 21.5	145	34	25	74	3	63	7.5	70	40	60	80
10.0	53.5 x 6.8 x 23.5	216	20	24	82	3	80	12	60	45	60	100
15.0	57.5 x 7.0 x 24.0	262	23	27	81	4	100	16	60	40	65	125
25.0	58.0 x 13.8 x 34.5	388	19	28	84	5	160	—	—	—	—	—
35.0	72.0 x 17.0 x 33.5	453	17.7	31	85	7	200	—	—	—	—	—
50.0	78.0 x 22.5 x 35.0	670	15.5	30	86	8	315	—	—	—	—	—

* Recommend Slo-Blo. Double the fuse current for 120 volt operation.

Power VA	Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each				Amveco Part No.
				1	10	25	50	
1.6	7 @ .228	14 @ .114	TE62000-ND	13.68	12.16	10.64	9.73	62000
	9 @ .178	18 @ .089	TE62001-ND	13.68	12.16	10.64	9.73	62001
	12 @ .134	24 @ .067	TE62002-ND	13.68	12.16	10.64	9.73	62002
	15 @ .106	30 @ .053	TE62003-ND	13.68	12.16	10.64	9.73	62003
	18 @ .088	36 @ .044	TE62004-ND	13.68	12.16	10.64	9.73	62004
	22 @ .072	44 @ .036	TE62005-ND	13.68	12.16	10.64	9.73	62005
3.2	7 @ .458	14 @ .229	TE62010-ND	13.68	12.16	10.64	9.73	62010
	9 @ .356	18 @ .178	TE62011-ND	13.68	12.16	10.64	9.73	62011
	12 @ .266	24 @ .133	TE62012-ND	13.68	12.16	10.64	9.73	62012
	15 @ .214	30 @ .107	TE62013-ND	13.68	12.16	10.64	9.73	62013
	18 @ .178	36 @ .089	TE62014-ND	13.68	12.16	10.64	9.73	62014
	22 @ .146	44 @ .073	TE62015-ND	13.68	12.16	10.64	9.73	62015
5.0	7 @ .714	14 @ .357	TE62020-ND	13.68	12.16	10.64	9.73	62020
	9 @ .556	18 @ .278	TE62021-ND	13.68	12.16	10.64	9.73	62021
	12 @ .416	24 @ .208	TE62022-ND	13.68	12.16	10.64	9.73	62022
	15 @ .334	30 @ .167	TE62023-ND	13.68	12.16	10.64	9.73	62023
	18 @ .278	36 @ .139	TE62024-ND	13.68	12.16	10.64	9.73	62024
	22 @ .228	44 @ .114	TE62025-ND	13.68	12.16	10.64	9.73	62025
7.0	7 @ 1.0	14 @ .500	TE62030-ND	14.24	12.66	11.08	10.13	62030
	9 @ .778	18 @ .389	TE62031-ND	14.24	12.66	11.08	10.13	62031
	12 @ .584	24 @ .292	TE62032-ND	14.24	12.66	11.08	10.13	62032
	15 @ .466	30 @ .233	TE62033-ND	14.24	12.66	11.08	10.13	62033
	18 @ .388	36 @ .194	TE62034-ND	14.24	12.66	11.08	10.13	62034
	22 @ .318	44 @ .159	TE62035-ND	14.24	12.66	11.08	10.13	62035
10.0	7 @ 1.428	14 @ .714	TE62040-ND	15.48	13.76	12.04	11.01	62040
	9 @ 1.112	18 @ .556	TE62041-ND	15.48	13.76	12.04	11.01	62041
	12 @ .834	24 @ .417	TE62042-ND	15.48	13.76	12.04	11.01	62042
	15 @ .666	30 @ .333	TE62043-ND	15.48	13.76	12.04	11.01	62043
	18 @ .556	36 @ .278	TE62044-ND	15.48	13.76	12.04	11.01	62044
	22 @ .454	44 @ .227	TE62045-ND	15.48	13.76	12.04	11.01	62045
15.0	7 @ 2.142	14 @ 1.071	TE62050-ND	16.25	14.44	12.64	11.56	62050
	9 @ 1.666	18 @ .833	TE62051-ND	16.25	14.44	12.64	11.56	62051
	12 @ 1.250	24 @ .625	TE62052-ND	16.25	14.44	12.64	11.56	62052
	15 @ 1.000	30 @ .500	TE62053-ND	16.25	14.44	12.64	11.56	62053
	18 @ .834	36 @ .417	TE62054-ND	16.25	14.44	12.64	11.56	62054
	22 @ .682	44 @ .341	TE62055-ND	16.25	14.44	12.64	11.56	62055
25.0	7 @ 3.570	14 @ 1.785	TE62060-ND	16.25	14.44	12.64	11.56	62060
	9 @ 2.754	18 @ 1.377	TE62061-ND	16.25	14.44	12.64	11.56	62061
	12 @ 2.082	24 @ 1.041	TE62062-ND	16.25	14.44	12.64	11.56	62062
	15 @ 1.664	30 @ .832	TE62063-ND	16.25	14.44	12.64	11.56	62063
	18 @ 1.388	36 @ .694	TE62064-ND	16.25	14.44	12.64	11.56	62064
	22 @ 1.136	44 @ .568	TE62065-ND	16.25	14.44	12.64	11.56	62065
35.0	7 @ 5.000	14 @ 2.500	TE62070-ND	16.83	14.96	13.09	11.97	62070
	9 @ 3.888	18 @ 1.944	TE62071-ND	16.83	14.96	13.09	11.97	62071
	12 @ 2.916	24 @ 1.458	TE62072-ND	16.83	14.96	13.09	11.97	62072
	15 @ 2.332	30 @ 1.166	TE62073-ND	16.83	14.96	13.09	11.97	62073
	18 @ 1.944	36 @ .972	TE62074-ND	16.83	14.96	13.09	11.97	62074
	22 @ 1.590	44 @ .795	TE62075-ND	16.83	14.96	13.09	11.97	62075
50.0	7 @ 7.142	14 @ 3.571	TE62080-ND	18.83	16.74	14.65	13.40	62080
	9 @ 5.554	18 @ 2.777	TE62081-ND	18.83	16.74	14.65	13.40	62081
	12 @ 4.166	24 @ 2.083	TE62082-ND	18.83	16.74	14.65	13.40	62082
	15 @ 3.332	30 @ 1.666	TE62083-ND	18.83	16.74	14.65	13.40	62083
	18 @ 2.776	36 @ 1.388	TE62084-ND	18.83	16.74	14.65	13.40	62084
	22 @ 2.272	44 @ 1.136	TE62085-ND	18.83	16.74	14.65	13.40	62085

Note: *To obtain output voltage, load current must be met.*

Toroidal Transformer

PC Mount, Low Profile 115/230V, 50/60 Hz Dual Primary

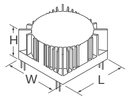

Low Magnetic strayfield emissions, higher efficiency, reduced “standby” current, reduced weight, fully encapsulated durable body formation.

• Safety standard certification (UL 506, UL 1950, UL File E122978, E138299) • VDE 0805, IEC 950, EN 60950 • UL and VDE certifications to 40°C (1.6VA-25VA) • Hipot testing at 4000V between primary and secondary (VDE0550) • Maximum ambient temperature of 60°C for 1.6VA-25VA, 40°C for 35VA and 50VA models

Recognized for insulation Class A (105°C) and meets all requirements of Class E (125°C).

1.6-25VA - Blind insert M4 X 6 threads, 1.0 x 0.5mm pins
35-50VA - M5 through hole, 1.35mm diameter pins

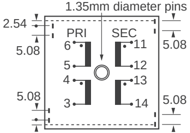

Bottom View

Power VA	Dimensions (Pin Length 5mm) L x W x H mm	Pin Pattern XY mm	Weight Total g	Reg. ΔV/Sec %	Δt °C	Eff. %	Excitation Current mA	230V Fuse* mA	Max. Secondary Range				
									VA	Reg. ΔV/Sec %	Δt °C	Eff. %	230V Fuse* mA
1.6	39.6 x 39.6 x 18.5	35.56	82	29	10	77	1.0	32	2.0	60	30	60	32
3.2	44.7 x 44.7 x 19.5	40.64	110	43	20	70	1.5	32	3.7	80	40	50	50
5.0	49.7 x 49.7 x 19.5	45.72	144	40	29	68	2.0	50	5.5	80	40	50	63
7.0	49.7 x 49.7 x 23.1	45.72	174	34	25	74	3.0	63	7.5	70	40	60	80
10.0	55.0 x 55.0 x 26.0	50.80	252	20	24	82	3.0	80	12.0	60	45	60	100
15.0	60.0 x 60.0 x 26.3	55.88	304	23	27	80	4.0	100	16.0	60	40	65	125
25.0	60.0 x 60.0 x 37.5	55.88	435	19	28	83	5.0	160	—	—	—	—	—
35.0	72.0 x 72.0 x 37.5	66.04	525	17.7	31	81	7.0	200	—	—	—	—	—
50.0	82.4 x 82.4 x 37.5	76.02	685	15.5	30	86	8.0	315	—	—	—	—	—

* Recommend Slo-Blo. Double the fuse current for 120 volt operation.

Power VA	Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each				Amveco Part No.
				1	10	25	50	
1.6	7 @ .228	14 @ .114	TE70000-ND	9.34	8.30	7.27	6.64	70000
	9 @ .178	18 @ .089	TE70001-ND	9.34	8.30	7.27	6.64	70001
	12 @ .134	24 @ .067	TE70002-ND	9.34	8.30	7.27	6.64	70002
	15 @ .106	30 @ .053	TE70003-ND	9.34	8.30	7.27	6.64	70003
	18 @ .088	36 @ .044	TE70004-ND	9.34	8.30	7.27	6.64	70004
	22 @ .072	44 @ .036	TE70005-ND	9.34	8.30	7.27	6.64	70005
3.2	7 @ .458	14 @ .229	TE70010-ND	10.76	9.56	8.37	7.65	70010
	9 @ .356	18 @ .178	TE70011-ND	10.76	9.56	8.37	7.65	70011
	12 @ .266	24 @ .133	TE70012-ND	10.76	9.56	8.37	7.65	70012
	15 @ .214	30 @ .107	TE70013-ND	10.76	9.56	8.37	7.65	70013
	18 @ .178	36 @ .089	TE70014-ND	10.76	9.56	8.37	7.65	70014
	22 @ .146	44 @ .073	TE70015-ND	10.76	9.56	8.37	7.65	70015
5.0	7 @ .714	14 @ .357	TE70020-ND	11.41	10.14	8.88	8.12	70020
	9 @ .556	18 @ .278	TE70021-ND	11.41	10.14	8.88	8.12	70021
	12 @ .416	24 @ .208	TE70022-ND	11.41	10.14	8.88	8.12	70022
	15 @ .334	30 @ .167	TE70023-ND	11.41	10.14	8.88	8.12	70023
	18 @ .278	36 @ .139	TE70024-ND	11.41	10.14	8.88	8.12	70024
	22 @ .228	44 @ .114	TE70025-ND	11.41	10.14	8.88	8.12	70025
7.0	7 @ 1.0	14 @ .500	TE70030-ND	12.87	11.44	10.01	9.16	70030
	9 @ .778	18 @ .389	TE70031-ND	12.87	11.44	10.01	9.16	70031
	12 @ .584	24 @ .292	TE70032-ND	12.87	11.44	10.01	9.16	70032
	15 @ .466	30 @ .233	TE70033-ND	12.87	11.44	10.01	9.16	70033
	18 @ .388	36 @ .194	TE70034-ND	12.87	11.44	10.01	9.16	70034
	22 @ .318	44 @ .159	TE70035-ND	12.87	11.44	10.01	9.16	70035
10.0	7 @ 1.428	14 @ .714	TE70040-ND	14.45	12.84	11.24	10.28	70040
	9 @ 1.112	18 @ .556	TE70041-ND	14.45	12.84	11.24	10.28	70041
	12 @ .834	24 @ .417	TE70042-ND	14.45	12.84	11.24	10.28	70042
	15 @ .666	30 @ .333	TE70043-ND	14.45	12.84	11.24	10.28	70043
	18 @ .556	36 @ .278	TE70044-ND	14.45	12.84	11.24	10.28	70044
	22 @ .454	44 @ .227	TE70045-ND	14.45	12.84	11.24	10.28	70045
15.0	7 @ 2.142	14 @ 1.071	TE70050-ND	16.22	14.42	12.62	11.54	70050
	9 @ 1.666	18 @ .833	TE70051-ND	16.22	14.42	12.62	11.54	70051
	12 @ 1.250	24 @ .625	TE70052-ND	16.22	14.42	12.62	11.54	70052
	15 @ 1.000	30 @ .500	TE70053-ND	16.22	14.42	12.62	11.54	70053
	18 @ .834	36 @ .417	TE70054-ND	16.22	14.42	12.62	11.54	70054
	22 @ .682	44 @ .341	TE70055-ND	16.22	14.42	12.62	11.54	70055
25.0	7 @ 3.570	14 @ 1.785	TE70060-ND	18.23	16.20	14.18	12.96	70060
	9 @ 2.754	18 @ 1.377	TE70061-ND	18.23	16.20	14.18	12.96	70061
	12 @ 2.082	24 @ 1.041	TE70062-ND	18.23	16.20	14.18	12.96	70062
	15 @ 1.664	30 @ .832	TE70063-ND	18.23	16.20	14.18	12.96	70063
	18 @ 1.388	36 @ .694	TE70064-ND	18.23	16.20	14.18	12.96	70064
	22 @ 1.136	44 @ .568	TE70065-ND	18.23	16.20	14.18	12.96	70065
35.0	7 @ 5.000	14 @ 2.500	TE70070-ND	22.34	19.86	17.38	15.89	70070
	9 @ 3.888	18 @ 1.944	TE70071-ND	22.34	19.86	17.38	15.89	70071
	12 @ 2.916	24 @ 1.458	TE70072-ND	22.34	19.86	17.38	15.89	70072
	15 @ 2.332	30 @ 1.166	TE70073-ND	22.34	19.86	17.38	15.89	70073
	18 @ 1.944	36 @ .972	TE70074-ND	22.34	19.86	17.38	15.89	70074
	22 @ 1.590	44 @ .795	TE70075-ND	22.34	19.86	17.38	15.89	70075
50.0	7 @ 7.142	14 @ 3.571	TE70080-ND	27.65	24.58	21.51	19.67	70080
	9 @ 5.554	18 @ 2.777	TE70081-ND	27.65	24.58	21.51	19.67	70081
	12 @ 4.166	24 @ 2.083	TE70082-ND	27.65	24.58	21.51	19.67	70082
	15 @ 3.332	30 @ 1.666	TE70083-ND	27.65	24.58	21.51	19.67	70083
	18 @ 2.776	36 @ 1.388	TE70084-ND	27.65	24.58	21.51	19.67	70084
	22 @ 2.272	44 @ 1.136	TE70085-ND	27.65	24.58	21.51	19.67	70085

Note: *To obtain output voltage, load current must be met.*

AMVECO TOROIDAL POWER PRODUCTS

Medical Grade Power and Isolation Transformers

Nominal Power VA	Secondary Current @ 120VAC (A)	Secondary Current @ 240VAC (A)	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
230	1.92	0.96	TE0230DS-ND	127.50	106.88	105.00	99.38	MT0230DS
400	3.33	1.67	TE0400DS-ND	136.00	114.00	110.00	106.00	MT0400DS
600	5.00	2.50	TE0600DS-ND	158.40	136.80	132.00	127.20	MT0600DS
750	6.25	3.12	TE0750DS-ND	161.70	139.65	134.75	129.85	MT0750DS
1000	8.33	4.16	TE1000DS-ND	193.97	166.60	160.65	154.70	MT1000DS
1500	12.5	6.25	TE1500DS-ND	248.00	217.00	205.38	197.63	MT1500DS
3000	25.0	12.5	TE3000DS-ND	325.50	288.75	273.00	262.50	MT3000DS

Note: *Multiple primaries must be connected in series or parallel. If assistance is needed, please contact Digi-Key Technical® department for additional hook-up information.*

Features:
• Lifetime warranty • Quad Primaries: 100V, 120V, 220V, 240V ~ 50/60Hz • Mounting hardware: metal disk, (2) rubber gaskets (100VA - 750VA); potted center, (1) foam gasket (1000VA ~ 3000VA) • UL 544, UL 2601, IEC 601, CSA 22.2 No. 601.1 • 10" color coded wire leads

Nominal Power (VA)	Diameter x Thickness (In.)	Weight (lb.)
230	4.6 x 2.4	5.2
400	5.5 x 2.5	8
600	6.2 x 3.1	13
750	6.6 x 3.1	14
1000	6.9 x 3.5	20
1500	8.2 x 4.0	28
3000	10.0 x 4.3	47

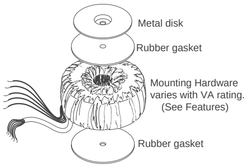

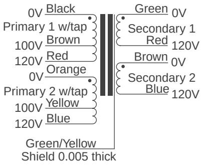

International Toroidal Power Transformers

Features:
• Lifetime warranty • 2 x 117V/50-60Hz primaries • Class A (105°C) • Disk mounting hardware: metal disk, (2) rubber gaskets
• 10" color coded wire leads

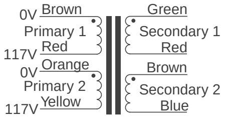

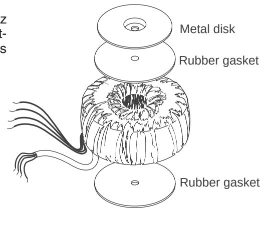

Nominal Power VA	Diameter x Thickness (In.)	Weight (lb.)	Mounting Hole Size
95	3.9 x 1.5	2.2	1/4"
140	3.9 x 1.9	3	1/4"
240	4.5 x 2.1	4.8	1/4"
300	4.6 x 2.6	5.7	1/4"
460	5.4 x 2.6	7.9	1/4"
625	5.5 x 3.2	9.5	1/4"
800	6.4 x 2.7	12.3	5/16"
990	6.5 x 3.0	15.2	5/16"

Nom. Power VA	Secondary Ratings Parallel VAC @ A	Series VCT @ A	Digi-Key Part No.	Price Each 1	10	25	50	Amveco Part No.
95	9 @ 10.6	18 @ 5.30	TE50952009-ND	67.59	56.33	53.51	52.57	AA50952-009
	12 @ 7.80	24 @ 3.90	TE50952012-ND	68.40	57.00	54.15	53.20	AA50952-012
140	18 @ 7.80	36 @ 3.90	TE51402018-ND	69.30	57.75	54.87	53.90	AA51402-018
	24 @ 5.80	48 @ 2.90	TE51402024-ND	71.10	59.25	56.29	55.30	AA51402-024
	117 @ 1.20	234 @ 0.60	TE51402117-ND	75.25	64.50	60.20	58.05	AA51402-117
240	15 @ 16.00	30 @ 8.00	TE52402015-ND	75.69	64.88	60.55	58.39	AA52402-015
300	15 @ 20.00	30 @ 10.00	TE53002015-ND	76.13	65.25	60.90	59.82	AA53002-015
	24 @ 12.40	48 @ 6.20	TE53002024-ND	76.13	65.25	60.90	59.82	AA53002-024
	117 @ 2.60	234 @ 1.30	TE53002117-ND	79.19	67.88	65.62	61.09	AA53002-117
460	30 @ 15.40	60 @ 7.70	TE54602030-ND	97.31	81.57	78.75	75.94	AA54602-030
	117 @ 4.00	234 @ 2.00	TE54602117-ND	99.04	83.02	80.15	77.29	AA54602-117
625	24 @ 26.00	48 @ 13.00	TE56252024-ND	103.80	87.00	84.00	81.00	AA56252-024
	30 @ 20.80	60 @ 10.40	TE56252030-ND	103.80	87.00	84.00	81.00	AA56252-030
	117 @ 5.40	234 @ 2.70	TE56252117-ND	109.86	92.08	88.90	85.73	AA56252-117
800	24 @ 33.40	48 @ 16.70	TE58002024-ND	124.10	105.85	102.20	96.73	AA58002-024
990	24 @ 41.20	48 @ 20.60	TE59902024-ND	121.55	103.68	100.10	94.74	AA59902-024
	55 @ 18.00	110 @ 9.00	TE59902055-ND	125.80	107.30	103.60	98.05	AA59902-055
	117 @ 8.40	234 @ 4.20	TE59902117-ND	128.35	107.59	105.70	100.04	AA59902-117

HAMMOND MANUFACTURING

Filament and Low Voltage Rectifier Use Transformers

Schematic Drawing for "Open" and "High Current-Open Frame" styles.

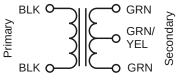

Fig. 1 Open Style

• Primary 115VAC, 60 Hz • Open style, channel bracket, two hole chassis mount • Minimum 6" (15.24cm) leads • Dual bobbin design - no electrostatic shield required • Class A insulation (105°C) • Hi-Pot test of 2,000V RMS • CSA certified (#LR3902) and UL listed (#E50394)

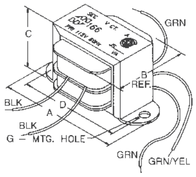

Fig. 2 – High Current - Open Frame

• Primary 115VAC, 60 Hz • Open style, 4 hole frame chassis mount • Minimum 6" (15.24cm) leads • Dual bobbin design - no electrostatic shield required • Class A insulation (105°C) • Hi-Pot test of 2,000V RMS • CSA certified (#LR3902) & UL listed (#E50394)

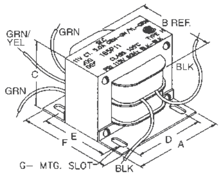

Fig.	Volts† AC	Amps	Dimensions - Inch (mm) A	B	C	D	E	F	G	Digi-Key Part No.	Price Each 1	5	10	25	Hammond Part No.
1	6.3	0.6	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM505-ND	14.98	14.42	14.09	13.19	166G6
	6.3	4.0	3.25 (82.55)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM508-ND	17.22	16.58	16.19	15.16	166N6
	8.5	2.0	3.25 (82.55)	1.63 (41.40)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM510-ND	16.73	16.10	15.73	14.72	166L8
	9.0	0.5	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM511-ND	14.98	14.42	14.09	13.19	166G9
	10.0	1.0	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM513-ND	16.29	15.68	15.32	14.34	166J10
	10.0	2.0	3.25 (82.55)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM514-ND	16.89	16.26	15.88	14.87	166L10
	10.0	3.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM515-ND	17.44	16.79	16.39	15.35	166M10
	12.6	0.3	2.38 (60.45)	1.38 (35.05)	1.38 (35.05)	2.00 (50.80)	—	—	0.187 (4.75)	HM517-ND	15.04	14.48	14.14	13.24	166F12
	12.6	0.5	2.81 (71.37)	1.50 (38.10)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM518-ND	15.95	15.35	14.99	14.04	166G12
	12.6	1.0	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM519-ND	16.51	15.89	15.52	14.53	166J12
	12.6	2.5	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM520-ND	18.31	17.63	17.22	16.12	166L12
	12.6	4.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM521-ND	21.20	20.41	19.93	18.66	166N12
	12.6	6.0	4.03 (102.36)	2.25 (57.15)	2.63 (66.60)	3.56 (90.42)	—	—	0.187 (4.75)	HM522-ND	26.49	25.50	24.91	23.32	166Q12
	12.6	8.0	4.50 (114.30)	2.50 (63.50)	2.88 (73.15)	4.00 (101.60)	—	—	0.203 (5.16)	HM523-ND	29.38	28.28	27.62	25.86	166R12
2	12.6	20.0	3.75 (95.25)	3.63 (92.20)	3.13 (79.50)	3.13 (79.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM525-ND	57.15	55.01	53.72	50.29	165V12
1	14.0	2.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM529-ND	17.29	16.65	16.26	15.22	166L14
	16.0	2.2	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM533-ND	17.76	17.10	16.70	15.64	166L16
	16.0	3.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM534-ND	21.16	20.37	19.90	18.63	166M16
	18.0	1.5	3.25 (82.50)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM535-ND	17.33	16.68	16.29	15.25	166K18
	18.0	3.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM536-ND	24.35	23.44	22.89	21.43	166M18
	18.0	5.0	4.03 (102.36)	2.50 (63.50)	2.63 (66.80)	3.56 (90.42)	—	—	0.187 (4.75)	HM537-ND	28.29	27.23	26.60	24.90	166P18
	20.0	2.0	3.69 (93.73)	1.88 (47.75)	2.31 (56.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM543-ND	23.04	22.18	21.66	20.28	166L20
2	22.0	12.0	4.50 (114.30)	3.88 (98.55)	3.75 (95.25)	3.75 (95.25)	2.75 (69.85)	3.50 (88.90)	.28 x .56 (7.11 x 14.22)	HM544-ND	58.13	55.95	54.64	51.16	165T22
1	24.0	.085	2.06 (52.32)	1.38 (35.05)	1.19 (30.23)	1.75 (44.45)	—	—	0.187 (4.75)	HM546-ND	17.25	16.61	16.22	15.19	166C24
	24.0	2.0	3.69 (93.73)	2.13 (54.10)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM547-ND	20.58	19.81	19.35	18.12	166L24
	24.0	4.0	4.50 (114.30)	2.50 (63.50)	2.88 (73.15)	4.00 (101.60)	—	—	0.203 (5.16)	HM548-ND	28.67	27.60	26.96	25.24	166N24
	25.0	0.5	2.81 (71.37)	1.63 (41.40)	1.69 (42.93)	2.38 (60.45)	—	—	0.187 (4.75)	HM552-ND	16.25	15.65	15.28	14.31	166G25
	25.0	1.0	3.25 (82.55)	1.75 (44.45)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM553-ND	17.25	16.61	16.22	15.19	166J25
	25.0	1.5	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM554-ND	20.16	19.41	18.96	17.75	166K25
	25.0	3.0	4.03 (102.36)	2.25 (57.15)	2.63 (66.80)	3.56 (90.42)	—	—	0.187 (4.75)	HM556-ND	25.76	24.80	24.22	22.68	166M25
2	25.0	10.0	3.75 (95.25)	3.63 (92.20)	3.13 (79.50)	3.13 (79.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM558-ND	54.82	52.77	51.53	48.24	165S25
1	28.0	1.0	3.25 (82.55)	2.00 (50.80)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM560-ND	17.27	16.63	16.24	15.20	166J28
2	30.0	5.0	3.00 (76.20)	3.25 (82.55)	2.56 (65.02)	2.50 (63.50)	3.25 (82.55)	4.00 (101.60)	.22 x .56 (5.59 x 14.22)	HM561-ND	44.22	42.56	41.57	38.92	165P30
	30.0	10.0	4.50 (114.30)	3.88 (98.55)	3.75 (95.25)	3.75 (95.25)	2.75 (69.85)	3.50 (88.90)	.28 x .56 (7.11 x 14.22)	HM562-ND	59.87	57.63	56.29	52.69	165S30
1	36.0	0.5	3.25 (82.55)	1.63 (41.40)	2.00 (50.80)	2.81 (71.37)	—	—	0.187 (4.75)	HM566-ND	16.56	15.95	15.57	14.58	166G36
	36.0	1.0	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM567-ND	20.18	19.43	18.98	17.76	166J36
	44.0	1.0	3.69 (93.73)	2.00 (50.80)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM568-ND	21.04	20.25	19.78	18.52	166J44
	80.0	0.5	3.69 (93.73)	1.88 (47.75)	2.31 (58.67)	3.13 (79.50)	—	—	0.187 (4.75)	HM569-ND	20.58	19.81	19.35	18.12	166G80

† Center tap voltage is half the voltage shown. All voltage ratings are based on full load current rating shown.

TRIAD MAGNETICS

Control Transformer — UL1585, Class 2, Energy Limited

Input Voltage 50/60Hz (VAC)	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
Fig. 1 — 0.250" Quick Connect							
120	237-1239-ND	9.60	7.38	6.56	5.95	5.05	TCT40-01E07AB
240	237-1241-ND	9.60	7.38	6.56	5.95	5.05	TCT40-02E07AB
120 / 208 / 240	237-1243-ND	10.05	7.74	6.88	6.24	5.29	TCT40-05E07AB
120 / 240	237-1245-ND	9.75	7.51	6.68	6.05	5.13	TCT40-06E07AB
208 / 240	237-1247-ND	9.75	7.51	6.68	6.05	5.13	TCT40-09E07AB
Fig. 2 — 12" (18AWG) Wire Lead							
120	237-1240-ND	9.60	7.38	6.56	5.95	5.05	TCT40-01E07K
240	237-1242-ND	9.60	7.38	6.56	5.95	5.05	TCT40-02E07K
120 / 208 / 240	237-1244-ND	10.05	7.74	6.88	6.24	5.29	TCT40-05E07K
120 / 240	237-1246-ND	9.75	7.51	6.68	6.05	5.13	TCT40-06E07K
208 / 240	237-1248-ND	9.75	7.51	6.68	6.05	5.13	TCT40-09E07K

Fig. 1

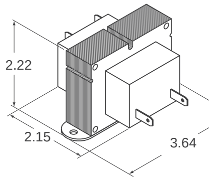

Fig. 2

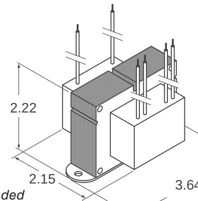

Wire Leaded Version Shown

Description: These control transformers come with a tamper resistant shroud for safety and a steel bracket welded to the bottom of the transformer for ease of mounting. Universal interchangeability with other manufactures. Applications are Industrial Controls and Automation, Consumer Equipment, HVAC Equipment. Since these products are energy limited, no secondary fusing is required.
Electrical Specifications: • Maximum Power: 40VA • Weight boxed unit: 1.5 pounds • Output Voltage: 24VAC @1.67A **Agency Approvals:** UL File: E65390 CSA File: 226495, UL Class B insulation system 130°C

World Series™ Power Transformers — Chassis Mount: Quick-Connect

Triad chassis mount World Series Transformers are designed to meet US and International standards including CSA, IEC, VDC and UL requirements. The transformers consist of a dual bobbin design, insulating shroud and constructed with UL high temperature material.

Specifications:

- Voltage:115/230V, 50/60Hz
- Hi-Pot tested at 4,000 Vrms

Fig. 1

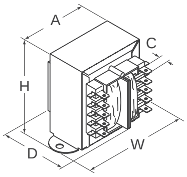

Fig. 2

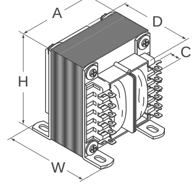

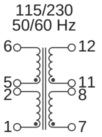

Power Max.	"A" Width (typ.)	"C" Contact Overall Length (typ.)	"D" Depth (typ.)	"W" Flange Width	"H" Height (typ.)	Weight (lbs.)
	Dimensions – Inches					
25VA	2.00	0.313	1.938	2.813	2.313	1.25
43VA	2.313	0.313	2.000	3.125	2.688	1.60
80VA	2.50	0.313	2.313	2.78	3.00	2.80
130VA	2.813	0.375	2.813	3.00	3.375	4.10
175VA	3.125	0.375	2.938	3.00	3.75	5.50

Fig.	VA (Size)	Parallel VAC @ A	Series VCT* @ A	Contact Size (Nom.)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
1	25	5 @ 5.0	10 @ 2.5	0.187"	237-1251-ND	15.41	11.24	9.99	9.05	VPS10-2500
1	43	5 @ 8.6	10 @ 4.3	0.187"	237-1252-ND	19.65	14.33	12.74	11.55	VPS10-4300
2	80	5 @ 16.0	10 @ 8.0	0.187"	237-1253-ND	26.84	19.57	17.40	15.77	VPS10-8000
2	130	5 @ 26.0	10 @ 13.0	0.250"	237-1249-ND	35.53	25.91	23.03	20.87	VPS10-13000
2	175	5 @ 35.0	10 @ 17.5	0.250"	237-1250-ND	40.79	29.74	26.44	23.96	VPS10-17500
1	25	6.3 @ 4.0	12.6 @ 2.0	0.187"	237-1256-ND	15.41	11.24	9.99	9.05	VPS12-2000
1	43	6.3 @ 6.8	12.6 @ 3.4	0.187"	237-1257-ND	19.65	14.33	12.74	11.55	VPS12-3400
2	80	6.3 @ 12.6	12.6 @ 6.3	0.187"	237-1258-ND	26.84	19.57	17.40	15.77	VPS12-6300
2	130	6.3 @ 20.6	12.6 @ 10.3	0.250"	237-1254-ND	35.53	25.91	23.03	20.87	VPS12-10300
2	175	6.3 @ 28.0	12.6 @ 14.0	0.250"	237-1255-ND	40.79	29.74	26.44	23.96	VPS12-14000
1	25	8 @ 3.2	16 @ 1.6	0.187"	237-1260-ND	15.41	11.24	9.99	9.05	VPS16-1600
1	43	8 @ 5.4	16 @ 2.7	0.187"	237-1261-ND	19.65	14.33	12.74	11.55	VPS16-2700
2	80	8 @ 10.0	16 @ 5.0	0.187"	237-1262-ND	26.84	19.57	17.40	15.77	VPS16-5000
2	130	8 @ 16.2	16 @ 8.1	0.250"	237-1263-ND	35.53	25.91	23.03	20.87	VPS16-8100
2	175	8 @ 22.0	16 @ 11.0	0.250"	237-1259-ND	40.79	29.74	26.44	23.96	VPS16-11000
1	25	10 @ 2.5	20 @ 1.25	0.187"	237-1264-ND	15.41	11.24	9.99	9.05	VPS20-1250
1	43	10 @ 4.4	20 @ 2.2	0.187"	237-1265-ND	19.65	14.33	12.74	11.55	VPS20-2200
2	80	10 @ 8.0	20 @ 4.0	0.187"	237-1266-ND	26.84	19.57	17.40	15.77	VPS20-4000
2	130	10 @ 13.0	20 @ 6.5	0.250"	237-1267-ND	35.53	25.91	23.03	20.87	VPS20-6500
2	175	10 @ 17.6	20 @ 8.8	0.250"	237-1268-ND	40.79	29.74	26.44	23.96	VPS20-8800

Fig.	VA (Size)	Parallel VAC @ A	Series VCT* @ A	Contact Size (Nom.)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
1	25	12 @ 2.0	24 @ 1.0	0.187"	237-1274-ND	15.41	11.24	9.99	9.05	VPS24-1000
1	43	12 @ 3.6	24 @ 1.8	0.187"	237-1275-ND	19.65	14.33	12.74	11.55	VPS24-1800
2	80	12 @ 6.6	24 @ 3.3	0.187"	237-1276-ND	26.84	19.57	17.40	15.77	VPS24-3300
2	130	12 @ 10.8	24 @ 5.4	0.250"	237-1277-ND	35.53	25.91	23.03	20.87	VPS24-5400
2	175	12 @ 14.6	24 @ 7.3	0.250"	237-1278-ND	40.79	29.74	26.44	23.96	VPS24-7300
1	25	14 @ 1.8	28 @ 0.9	0.187"	237-1283-ND	15.41	11.24	9.99	9.05	VPS28-900
1	43	14 @ 3.0	28 @ 1.5	0.187"	237-1279-ND	19.65	14.33	12.74	11.55	VPS28-1500
2	80	14 @ 5.6	28 @ 2.8	0.187"	237-1280-ND	26.84	19.57	17.40	15.77	VPS28-2800
2	130	14 @ 9.2	28 @ 4.6	0.250"	237-1281-ND	35.53	25.91	23.03	20.87	VPS28-4600
2	175	14 @ 12.5	28 @ 6.25	0.250"	237-1282-ND	40.79	29.74	26.44	23.96	VPS28-6250
1	25	18 @ 1.4	36 @ 0.7	0.187"	237-1288-ND	15.41	11.24	9.99	9.05	VPS36-700
1	43	18 @ 2.4	36 @ 1.2	0.187"	237-1284-ND	19.65	14.33	12.74	11.55	VPS36-1200
2	80	18 @ 4.4	36 @ 2.2	0.187"	237-1285-ND	26.84	19.57	17.40	15.77	VPS36-2200
2	130	18 @ 7.2	36 @ 3.6	0.250"	237-1286-ND	35.53	25.91	23.03	20.87	VPS36-3600
2	175	18 @ 9.6	36 @ 4.8	0.250"	237-1287-ND	40.79	29.74	26.44	23.96	VPS36-4800
1	25	115 @ 0.22	230 @ 0.11	0.187"	237-1269-ND	15.41	11.24	9.99	9.05	VPS230-110
1	43	115 @ 0.38	230 @ 0.19	0.187"	237-1270-ND	19.65	14.33	12.74	11.55	VPS230-190
2	80	115 @ 0.7	230 @ 0.35	0.187"	237-1271-ND	26.84	19.57	17.40	15.77	VPS230-350
2	130	115 @ 1.14	230 @ 0.57	0.250"	237-1272-ND	35.53	25.91	23.03	20.87	VPS230-570
2	175	115 @ 1.52	230 @ 0.76	0.250"	237-1273-ND	40.79	29.74	26.44	23.96	VPS230-760

*CT = Center Tap

World Series™ Power Transformers — PC Mount

- World Series dual bobbin construction transformers meet U.S. and international standards including CSA, IEC, VDE & UL requirements.
- Hi-Pot Test: 4,000 VRMS
- Primary: 115/230V, 50/60 Hz

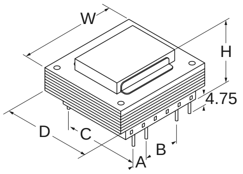

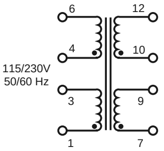

VA Size	H	W	D	A	B	C	Pin Dim.	Wt. Kg
	Dimensions – Inch (mm)							
2.5	1.125 (28.58)	1.625 (41.28)	1.3125 (33.34)	.200 (5.08)	.250 (6.35)	1.000 (25.40)	.025 (.64)	.25 (.11)
5.0	1.375 (34.93)	1.625 (41.28)	1.3125 (33.34)	.200 (5.08)	.400 (10.16)	1.000 (25.40)	.025 (.64)	.37 (.17)
10.0	1.375 (34.93)	1.875 (47.63)	1.5625 (39.69)	.200 (5.08)	.400 (10.16)	1.140 (28.96)	.036 (.914)	.53 (.24)
20.0	1.625 (41.28)	2.25 (57.15)	1.875 (47.63)	.400 (10.16)	.400 (10.16)	1.460 (37.08)	.036 (.914)	.90 (.41)
30.0	1.5625 (39.69)	2.625 (66.68)	2.1875 (55.56)	.550 (13.97)	.275 (6.98)	1.680 (42.67)	.045 (1.14)	1.15 (.52)
56.0	1.8125 (46.04)	3.000 (76.20)	2.500 (63.50)	.600 (15.24)	.300 (7.62)	1.900 (48.26)	.045 (1.14)	1.70 (.77)

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	10	25	Triad Part No.
2.5	5 @ 0.5	10 @ 0.25	237-1060-ND	9.62	8.56	7.44	VPP10-250
5.0	5 @ 1.0	10 @ 0.5	237-1081-ND	10.36	9.25	8.04	VPP10-500
10.0	5 @ 2.0	10 @ 1.0	237-1053-ND	11.60	10.19	8.86	VPP10-1000
20.0	5 @ 4.0	10 @ 2.0	237-1067-ND	14.11	12.29	10.68	VPP10-2000
30.0	5 @ 6.0	10 @ 3.0	237-1074-ND	16.22	14.56	12.66	VPP10-3000
56.0	5 @ 11.2	10 @ 5.6	237-1088-ND	19.84	15.27	13.57	VPP10-5600
2.5	6.3 @ 0.4	12.6 @ 0.2	237-1061-ND	9.62	8.56	7.44	VPP12-200
5.0	6.3 @ 0.8	12.6 @ 0.4	237-1082-ND	10.36	9.25	8.04	VPP12-400
10.0	6.3 @ 1.6	12.6 @ 0.8	237-1054-ND	11.60	10.19	8.86	VPP12-800
20.0	6.3 @ 3.2	12.6 @ 1.6	237-1068-ND	14.11	12.29	10.68	VPP12-1600
30.0	6.3 @ 4.8	12.6 @ 2.4	237-1075-ND	16.22	14.56	12.66	VPP12-2400
56.0	6.3 @ 8.8	12.6 @ 4.4	237-1089-ND	19.84	15.27	13.57	VPP12-4400
2.5	8 @ 0.3	16 @ 0.15	237-1062-ND	9.62	8.56	7.44	VPP16-150
5.0	8 @ 0.62	16 @ 0.31	237-1083-ND	10.36	9.25	8.04	VPP16-310

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	10	25	Triad Part No.
10.0	8 @ 1.25	16 @ 0.62	237-1055-ND	11.60	10.19	8.86	VPP16-620
20.0	8 @ 2.5	16 @ 1.25	237-1069-ND	14.11	12.29	10.68	VPP16-1250
30.0	8 @ 3.8	16 @ 1.9	237-1076-ND	16.22	14.56	12.66	VPP16-1900
56.0	8 @ 7.0	16 @ 3.5	237-1090-ND	19.84	15.27	13.57	VPP16-3500
2.5	10 @ 0.24	20 @ 0.12	237-1063-ND	9.62	8.56	7.44	VPP20-120
5.0	10 @ 0.5	20 @ 0.25	237-1084-ND	10.36	9.25	8.04	VPP20-250
10.0	10 @ 1.0	20 @ 0.5	237-1056-ND	11.60	10.19	8.86	VPP20-500
20.0	10 @ 2.0	20 @ 1.0	237-1070-ND	14.11	12.29	10.68	VPP20-1000
30.0	10 @ 3.0	20 @ 1.5	237-1077-ND	16.22	14.56	12.66	VPP20-1500
56.0	10 @ 5.6	20 @ 2.8	237-1091-ND	19.84	15.27	13.57	VPP20-2800
2.5	12 @ 0.2	24 @ 0.1	237-1064-ND	9.62	8.56	7.44	VPP24-100
5.0	12 @ 0.42	24 @ 0.21	237-1085-ND	10.36	9.25	8.04	VPP24-210
10.0	12 @ 0.84	24 @ 0.42	237-1057-ND	11.60	10.19	8.86	VPP24-420
20.0	12 @ 1.66	24 @ 0.83	237-1071-ND	14.11	12.29	10.68	VPP24-830

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	10	25	Triad Part No.
30.0	12 @ 2.50	24 @ 1.25	237-1078-ND	16.22	14.56	12.66	VPP24-1250
56.0	12 @ 4.66	24 @ 2.33	237-1092-ND	19.84	15.27	13.57	VPP24-2330
2.5	14 @ 0.18	28 @ 0.09	237-1065-ND	9.62	8.56	7.44	VPP28-090
5.0	14 @ 0.36	28 @ 0.18	237-1086-ND	10.36	9.25	8.04	VPP28-180
10.0	14 @ 0.72	28 @ 0.36	237-1058-ND	11.60	10.19	8.86	VPP28-360
20.0	14 @ 1.44	28 @ 0.72	237-1072-ND	14.11	12.29	10.68	VPP28-720
30.0	14 @ 2.12	28 @ 1.06	237-1079-ND	16.22	14.56	12.66	VPP28-1060
56.0	14 @ 4.0	28 @ 2.0	237-1094-ND	19.84	15.27	13.57	VPP28-2000
2.5	18 @ 0.14	36 @ 0.07	237-1066-ND	9.62	8.56	7.44	VPP36-070
5.0	18 @ 0.28	36 @ 0.14	237-1087-ND	10.36	9.25	8.04	VPP36-140
10.0	18 @ 0.56	36 @ 0.28	237-1059-ND	11.60	10.19	8.86	VPP36-280
20.0	18 @ 1.12	36 @ 0.56	237-1073-ND	14.11	12.29	10.68	VPP36-560
30.0	18 @ 1.64	36 @ 0.82	237-1080-ND	16.22	14.56	12.66	VPP36-820
56.0	18 @ 3.12	36 @ 1.56	237-1095-ND	19.84	15.27	13.57	VPP36-1560

*CT = Center Tap

PC Mount - Pack Power Transformers

• Designed to meet the needs of low clearance PC board and solid state power designs. • Hi-Pot Test: 2,000 VRMS • Primary: 115/230V, 50/60 Hz • Class B UL Recognized, UL File E53148

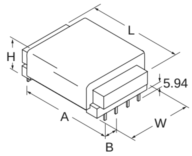

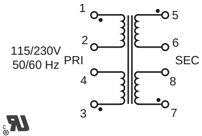

VA Size	Dimensions – Inch (mm) H	W	L	A	B	Wt. Oz. (Gram)
2.5	0.650 (16.51)	1.562 (39.67)	1.875 (47.63)	1.600 (40.64)	0.375 (9.52)	5 (141.75)
6.0	0.875 (22.23)	1.562 (39.67)	1.875 (47.63)	1.600 (40.64)	0.375 (9.52)	7 (198.44)
12.0	1.062 (26.97)	2.000 (50.80)	2.500 (63.50)	2.000 (50.80)	0.500 (12.70)	11 (311.84)

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
2.5	5 @ 0.5	10 @ 0.25	237-1008-ND	10.76	9.37	8.14	7.13	6.23	FP10-250
	6.3@ 0.4	12.6 @ 0.2	237-1009-ND	10.76	9.37	8.14	7.13	6.23	FP12-200
	8 @ 0.3	16 @ 0.15	237-1010-ND	10.76	9.37	8.14	7.13	6.23	FP16-150
	10 @ 0.25	20 @ 0.125	237-1011-ND	10.76	9.37	8.14	7.13	6.23	FP20-125
	12 @ 0.2	24 @ 0.1	237-1012-ND	10.76	9.37	8.14	7.13	6.23	FP24-100
	15 @ 0.16	30@ 0.08	237-1013-ND	10.76	9.37	8.14	7.13	6.23	FP30-85
	17 @ 0.15	34 @ 0.075	237-1014-ND	10.76	9.37	8.14	7.13	6.23	FP34-75
	28 @ 0.09	56 @ 0.045	237-1015-ND	10.76	9.37	8.14	7.13	6.23	FP56-45
6.0	5 @ 1.2	10 @ 0.6	237-1016-ND	12.00	10.61	9.29	8.18	7.21	FP10-600
	6.3@ 0.95	12.6 @ 0.475	237-1017-ND	12.00	10.61	9.29	8.18	7.21	FP12-475
	8 @ 0.75	16 @ 0.375	237-1018-ND	12.00	10.61	9.29	8.18	7.21	FP16-375
	10 @ 0.6	20 @ 0.3	237-1019-ND	12.00	10.61	9.29	8.18	7.21	FP20-300
	12 @ 0.5	24 @ 0.25	237-1020-ND	12.00	10.61	9.29	8.18	7.21	FP24-250
	15 @ 0.4	30@ 0.2	237-1021-ND	12.00	10.61	9.29	8.18	7.21	FP30-200
	17 @ 0.34	34 @ 0.17	237-1022-ND	12.00	10.61	9.29	8.18	7.21	FP34-170
	28 @ 0.2	56 @ 0.1	237-1023-ND	12.00	10.61	9.29	8.18	7.21	FP56-100
12.0	5 @ 2.4	10 @ 1.2	237-1000-ND	14.00	11.28	10.16	8.75	7.51	FP10-1200
	6.3@ 1.9	12.6 @ 0.95	237-1001-ND	14.00	11.28	10.16	8.75	7.51	FP12-950
	8 @ 1.5	16 @ 0.75	237-1002-ND	14.00	11.28	10.16	8.75	7.51	FP16-750
	10 @ 1.2	20 @ 0.6	237-1003-ND	14.00	11.28	10.16	8.75	7.51	FP20-600
	12 @ 1.0	24 @ 0.5	237-1004-ND	14.00	11.28	10.16	8.75	7.51	FP24-500
	15 @ 0.8	30@ 0.4	237-1005-ND	14.00	11.28	10.16	8.75	7.51	FP30-400
	17 @ 0.68	34 @ 0.34	237-1006-ND	14.00	11.28	10.16	8.75	7.51	FP34-340
	28 @ 0.4	56 @ 0.2	237-1007-ND	14.00	11.28	10.16	8.75	7.51	FP56-200

*CT = Center Tap

PC Mount - Split Pack™ Power Transformers

• Split Pack split bobbin transformer for PC board applications. • Hi-Pot Test: 2,500 VRMS • Primary: 115/230V, 50/60 Hz • Class B UL Recognized, UL File E53148

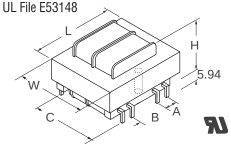

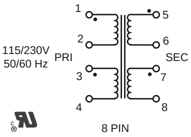

VA Size	Dimensions – Inch (mm) H	W	L	A	B	C	Wt. Lbs. (Kg)
1.1	.9375 (23.81)	1.125 (28.58)	1.375 (34.93)	.250 (6.35)	.250 (6.35)	1.20 (30.48)	.17 (.08)
2.5	1.1875 (30.16)	1.125 (28.58)	1.375 (34.93)	.250 (6.35)	.250 (6.35)	1.20 (30.48)	.25 (.11)
6.0	1.3125 (33.34)	1.3125 (33.34)	1.625 (41.28)	.250 (6.35)	.350 (8.80)	1.280 (32.51)	.44 (.20)
12.0	1.4375 (36.51)	1.5625 (39.69)	1.875 (47.63)	.30 (7.62)	.40 (10.16)	1.410 (35.81)	.70 (.32)

VA (Size)	Parallel VAC @ A	Series VCT* @ A	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
1.1	6.3 @ 0.18	12.6 @ 0.09	237-1024-ND	8.71	7.10	6.39	5.51	4.73	FS12-090
	8 @ 0.14	16 @ 0.07	237-1025-ND	8.71	7.10	6.39	5.51	4.73	FS16-070
	10 @ 0.11	20 @ 0.055	237-1026-ND	8.71	7.10	6.39	5.51	4.73	FS20-055
	12 @ 0.09	24 @ 0.045	237-1028-ND	8.71	7.10	6.39	5.51	4.73	FS24-045
	14 @ 0.08	28 @ 0.04	237-1029-ND	8.71	7.10	6.39	5.51	4.73	FS28-040
	18 @ 0.06	36 @ 0.03	237-1030-ND	8.71	7.10	6.39	5.51	4.73	FS36-030
2.5	5 @ 0.5	10 @ 0.25	237-1031-ND	9.00	7.26	6.54	5.63	4.83	FS10-250
	6.3@ 0.4	12.6 @ 0.2	237-1032-ND	9.00	7.26	6.54	5.63	4.83	FS12-200
	8 @ 0.3	16 @ 0.15	237-1033-ND	9.00	7.26	6.54	5.63	4.83	FS16-150
	10 @ 0.24	20 @ 0.12	237-1034-ND	9.00	7.26	6.54	5.63	4.83	FS20-120
	12 @ 0.2	24 @ 0.1	237-1035-ND	9.00	7.26	6.54	5.63	4.83	FS24-100
	14 @ 0.17	28@ 0.085	237-1036-ND	9.00	7.26	6.54	5.63	4.83	FS28-85
	18 @ 0.13	36 @ 0.065	237-1037-ND	9.00	7.26	6.54	5.63	4.83	FS36-65
6.0	5 @ 1.2	10 @ 0.6	237-1038-ND	9.60	7.84	7.06	6.08	5.22	FS10-600
	6.3@ 1.0	12.6 @ 0.5	237-1039-ND	9.60	7.84	7.06	6.08	5.22	FS12-500
	8 @ 0.8	16 @ 0.4	237-1040-ND	9.60	7.84	7.06	6.08	5.22	FS16-400
	10 @ 0.6	20 @ 0.3	237-1041-ND	9.60	7.84	7.06	6.08	5.22	FS20-300
	12 @ 0.5	24 @ 0.25	237-1042-ND	9.60	7.84	7.06	6.08	5.22	FS24-250
	14 @ 0.4	28 @ 0.2	237-1043-ND	9.60	7.84	7.06	6.08	5.22	FS28-200
	18 @ 0.34	36 @ 0.17	237-1044-ND	9.60	7.84	7.06	6.08	5.22	FS36-170
12.0	5 @ 2.4	10 @ 1.2	237-1045-ND	11.00	8.94	8.05	6.93	5.95	FS10-1200
	6.3 @ 2.0	12.6 @ 1.0	237-1046-ND	11.00	8.94	8.05	6.93	5.95	FS12-1000
	8.0 @ 1.6	16 @ 0.8	237-1047-ND	11.00	8.94	8.05	6.93	5.95	FS16-800
	10 @ 1.2	20 @ 0.6	237-1048-ND	11.00	8.94	8.05	6.93	5.95	FS20-600
	12 @ 1.0	24 @ 0.5	237-1050-ND	11.00	8.94	8.05	6.93	5.95	FS24-500
	14 @ 0.84	28 @ 0.42	237-1051-ND	11.00	8.94	8.05	6.93	5.95	FS28-420
	18 @ 0.7	36 @ 0.35	237-1052-ND	11.00	8.94	8.05	6.93	5.95	FS36-350

*CT = Center Tap

Switchmode / High Frequency Inductors

Rod Core Inductors

DESCRIPTION:

TRIAD high current rod core inductors provide cost effective energy storage. By conditioning the output signal, the inductor smoothes out the current waveform to provide a more stable current. These low cost inductors are designed to be compatible with automated P.C.B. installation.

Fig. 1

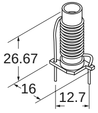

Fig. 2

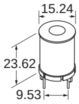

Fig.	± 15% Induct. µH	DC Rated Current	Max. DC Resist. (mOhms)	Lead Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
High Current Rod Core Inductors										
1	2.54	11.60A	5.50	.050 (1.27)	237-1158-ND	2.44	1.98	1.76	1.60	FIRCH-1
	3.05	9.70A	7.30	.045 (1.14)	237-1159-ND	2.44	1.98	1.76	1.60	FIRCH-2
	3.60	8.10A	9.95	.040 (1.02)	237-1160-ND	2.44	1.98	1.76	1.60	FIRCH-3
	5.00	6.80A	14.10	.036 (.91)	237-1161-ND	2.44	1.98	1.76	1.60	FIRCH-4
	5.90	5.70A	18.50	.032 (.81)	237-1162-ND	2.44	1.98	1.76	1.60	FIRCH-5
	7.22	4.80A	26.10	.028 (.71)	237-1163-ND	2.44	1.98	1.76	1.60	FIRCH-6

Fig.	10% Induct.	DC Rated Current	± 15% DC Resist. (Ohms)	Lead Diameter Inch (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
Rod Core Inductors										
2	5.6mH	.250A	6.100	.032 (.81)	237-1165-ND	2.71	2.20	1.96	1.77	RC-1
	3.9mH	.320A	3.900		237-1166-ND	2.71	2.20	1.96	1.77	RC-2
	2.5mH	.400A	2.450		237-1167-ND	2.71	2.20	1.96	1.77	RC-3
	1.5mH	.500A	1.530		237-1168-ND	2.71	2.20	1.96	1.77	RC-4
	915.0µH	.625A	1.000		237-1169-ND	2.71	2.20	1.96	1.77	RC-5
	560.0µH	.800A	.600		237-1170-ND	2.71	2.20	1.96	1.77	RC-6
	450.0µH	1.000A	.420		237-1171-ND	2.71	2.20	1.96	1.77	RC-7
	250.0µH	1.250A	.210		237-1172-ND	2.71	2.20	1.96	1.77	RC-8
	200.0µH	1.600A	.180		237-1173-ND	2.71	2.20	1.96	1.77	RC-9
	100.0µH	2.000A	.098		237-1175-ND	2.71	2.20	1.96	1.77	RC-10
	75.0µH	2.500A	.070		237-1176-ND	2.71	2.20	1.96	1.77	RC-11

237-1164-ND (FIRCH-KIT) 6 piece kit - one of each High Current Rod Core Inductors.............................. **$11.11**
237-1177-ND (RC-KIT) 11 piece kit - one of each Rod Core Inductor **$27.78**

Toroidal Inductors

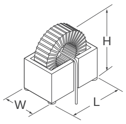

DESCRIPTION: TRIAD toroidal inductors condition the output signal by leveling out the current waveform providing a more stable current supply.

TECHNICAL NOTES: • Nominal inductance values are typically 10% higher than minimum rating. • Biased inductance measured at rated DC amps.

Min. Induct. (µH) No Bias	At Bias	Rated DC Amps	Max. DCR (mΩ)	Dims. - Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
18.85	12.72	2.8	44.8	.625 x .350 x .700 (15.88 x 8.89 x 17.78)	237-1178-ND	1.96	1.59	1.41	1.28	FIT44-1
14.75	9.82	3.4	30.7		237-1179-ND	1.96	1.59	1.41	1.28	FIT44-2
12.30	7.75	4.0	23.4		237-1180-ND	1.96	1.59	1.41	1.28	FIT44-3
8.06	5.22	4.8	15.9		237-1181-ND	1.96	1.59	1.41	1.28	FIT44-4
47.40	29.00	2.8	78.9	.700 x .475 x .750 (17.78 x 12.06 x 19.05)	237-1182-ND	2.31	1.88	1.67	1.51	FIT50-1
35.48	23.77	3.4	57.8		237-1183-ND	2.31	1.88	1.67	1.51	FIT50-2
27.16	16.13	4.0	40.1		237-1184-ND	2.31	1.88	1.67	1.51	FIT50-3
21.65	12.27	4.8	29.2		237-1185-ND	2.31	1.88	1.67	1.51	FIT50-4
16.76	9.50	5.7	20.0		237-1186-ND	2.31	1.88	1.67	1.51	FIT50-5
12.50	6.75	6.8	14.0		237-1187-ND	2.31	1.88	1.67	1.51	FIT50-6
8.86	4.80	8.1	11.0		237-1188-ND	2.31	1.88	1.67	1.51	FIT50-7
89.50	57.99	2.8	108.0	.875 x .475 x .950 (22.23 x 12.06 x 24.13)	237-1189-ND	2.80	2.27	2.02	1.83	FIT68-1
71.10	41.59	3.4	86.1		237-1190-ND	2.80	2.27	2.02	1.83	FIT68-2
54.81	33.05	4.0	59.9		237-1191-ND	2.80	2.27	2.02	1.83	FIT68-3
43.30	26.63	4.8	42.4		237-1192-ND	2.80	2.27	2.02	1.83	FIT68-4
33.15	18.79	5.7	28.8		237-1193-ND	2.80	2.27	2.02	1.83	FIT68-5
24.31	13.56	6.8	20.2		237-1194-ND	2.80	2.27	2.02	1.83	FIT68-6
18.64	10.23	8.1	14.8		237-1195-ND	2.80	2.27	2.02	1.83	FIT68-7
128.00	74.04	4.0	95.2	.975 x .625 x 1.100 (24.77 x 15.88 x 27.94)	237-1196-ND	3.47	2.81	2.50	2.27	FIT80-1
107.50	58.05	4.8	67.9		237-1197-ND	3.47	2.81	2.50	2.27	FIT80-2
80.75	42.00	5.7	44.8		237-1198-ND	3.47	2.81	2.50	2.27	FIT80-3
65.04	31.60	6.8	32.8		237-1199-ND	3.47	2.81	2.50	2.27	FIT80-4
47.70	22.79	8.1	22.5		237-1200-ND	3.47	2.81	2.50	2.27	FIT80-5
38.07	18.11	9.7	17.0		237-1201-ND	3.47	2.81	2.50	2.27	FIT80-6
253.00	153.00	4.0	139.0	1.300 x .725 x 1.400 (33.02 x 18.42 x 35.56)	237-1202-ND	4.31	3.50	3.11	2.82	FIT106-1
197.00	113.00	4.8	106.0		237-1203-ND	4.31	3.50	3.11	2.82	FIT106-2
154.00	84.00	5.7	74.0		237-1205-ND	4.31	3.50	3.11	2.82	FIT106-3
116.00	61.90	6.8	48.5		237-1206-ND	4.31	3.50	3.11	2.82	FIT106-4
93.00	48.00	8.1	39.1		237-1207-ND	4.31	3.50	3.11	2.82	FIT106-5
70.05	35.30	9.7	24.0		237-1208-ND	4.31	3.50	3.11	2.82	FIT106-6

237-1209-ND (FIT-KIT) 30 piece kit - one of each Toroidal Inductor.. **$83.33**

Audio Transformers

Data/Voice Coupling Transformers

SPECIFICATIONS: Designed to meet FCC Part 68.
Longitudinal Balance: (FCC68.310): 60dB minimum 200-1000 HZ, 45 dB mn. 1000-4000 HZ.
Dielectric Strength: (FCC 68.304): 1500V.
Freq. Range: Data/Voice = 300 - 3500 HZ, Data = 800 - 3500 HZ

Schematic A

TY-305P	PRI 2, 3; SEC 6, 7
TY-307P, TY-310P TY-311P, TY-400P TY-301P, TY-303P TY-402P	PRI 1, 3; SEC 4, 6

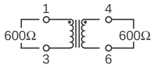

Schematic B

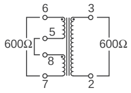

Schematic C

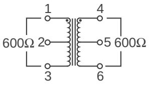

Schematic D

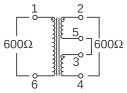

Schematic E

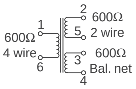

Fig. 1

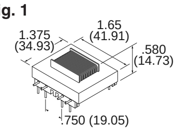

Fig. 2

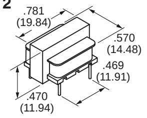

Fig. 3

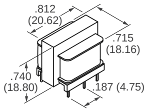

Fig. 4

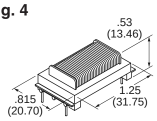

Fig. 5

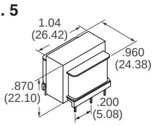

Fig. 6

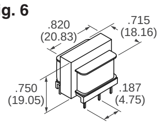

Fig.	Schematic	Impedance Pri.	Impedance Sec.	IDC Max (mA)	Insertion Loss (dB)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
						Data/Voice Coupling Transformers					
1	A	600	600	100	1.5	237-1128-ND	10.94	8.86	7.88	7.14	TY-305P
1	B	600 Split	600	75	1.5	237-1129-ND	10.94	8.86	7.88	7.14	TY-306P
2	A	600	600	0	1.0	237-1130-ND	6.41	5.19	4.61	4.18	TY-307P
3	A	600	600	0	1.0	237-1132-ND‡	5.56	4.50	4.00	3.63	TY-311P
3	C	600CT*	600CT*	0	1.0	237-1127-ND	5.56	4.50	4.00	3.63	TY-304P
3	A	600	900	0	1.0	237-1124-ND	5.56	4.50	4.00	3.63	TY-301P
3	A	4000	600	0	1.0	237-1126-ND	5.56	4.50	4.00	3.63	TY-303P
6	A	600	600	90	1.75	237-1133-ND‡	8.34	6.75	6.00	5.44	TY-400P
6	C	600CT*	600CT*	90	1.75	237-1134-ND	8.34	6.75	6.00	5.44	TY-401P
4	A	600	600	90	1.75	237-1135-ND‡	6.89	5.58	4.96	4.50	TY-402P
4	D	600	600 Split	90	1.75	237-1136-ND	6.89	5.58	4.96	4.50	TY-403P
						Data/Voice Dual Transformer Hybrids					
3	E	600 (4W)	600/600	0	.80	237-1123-ND†	5.56	4.50	4.00	3.63	TY-300P
5	E	600 (4W)	600/600	0	.65	237-1125-ND†	8.33	6.75	6.00	5.44	TY-302P

*CT = Center Tap ‡ Four-pin configuration
†Two required for conventional hybrid operation, the insertion loss does not include 3dB in hybrid balance network.

MIL-T-27E Audio Transformers

DESCRIPTION: The line of Red Spec audio transformers is designed and constructed to meet the rigid requirements of MIL-T-27E.

SPECIFICATIONS: Freq. Response Ranges: 300 Hz to 150 kHz

TECHNICAL NOTES: • HI-Pot Test: 1,000 VRMS • Working Voltage: 150VDC

Pin-Out #	Pinout Primary	Pinout Secondary
1	1,2	3,4
2	1, 2CT, 3	4, 5
3	1, 2CT, 3	4, 5CT, 6
4	1, 2	3, 4,§, 5, 6

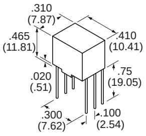

Power Level in mW	Matching Impedance Pri.	Matching Impedance Sec.	DC Unbal. in Pri. Max(mA)	Pin-Out #	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
10	200,000 CT*	1,000 CT*	0.0	3	237-1137-ND	21.29	17.25	15.33	13.90	SP-4
50	10,000 CT*	2,000 CT*	1.0	3	237-1141-ND	21.21	17.19	15.28	13.85	SP-21
	1,000	50	3.0	1	237-1144-ND	17.25	13.97	12.42	11.26	SP-33
	150 CT*	12	10.0	2	237-1145-ND	15.51	12.57	11.17	10.13	SP-42
	7,500 CT*	12	1.0	2	237-1146-ND	18.39	14.89	13.24	12.00	SP-48
	900 CT*	600	4.0	2	237-1149-ND	19.12	15.48	13.76	12.47	SP-51
	10,000 CT*	10,000 CT*	1.0	3	237-1151-ND	16.93	13.72	12.20	11.05	SP-66
	600 CT*	600 CT*	3.0	3	237-1152-ND	18.64	15.11	13.43	12.17	SP-67
	600	600 CT/150§	3.0	4	237-1154-ND	18.56	15.03	13.36	12.11	SP-69
	600	600	3.0	1	237-1155-ND	17.48	14.17	12.60	11.42	SP-70
—	—	Shield Only	—	—	237-1157-ND	3.41	2.76	2.45	2.22	SP-310

*CT = Center Tap § Split Secondary

Audio PC Mount Transformers

DESCRIPTION:
Audio transformers are used in line matching, telephone coupling, pulse trigger and driver applications.

SPECIFICATIONS:
Freq. Response Ranges: 200 - 15,000Hz

Fig. 1

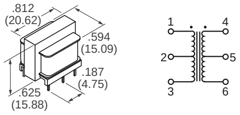

Fig. 2

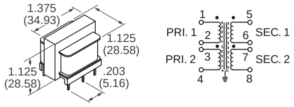

Fig.	Matching Impedance Pri.	Matching Impedance Sec.	DC Unbal. in Pri. Max (mA)	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
1	10,000 CT*	10,000 CT*	4 mA	237-1118-ND	3.89	3.15	2.80	2.54	2.16	TY-141P
1	10,000 CT*	2,000 CT*	4 mA	237-1119-ND	3.89	3.15	2.80	2.54	2.16	TY-142P
1	15,000 CT*	15,000 CT*	4 mA	237-1120-ND	3.89	3.15	2.80	2.54	2.16	TY-144P
1	600 CT*	600 CT*	15 mA	237-1121-ND	3.89	3.15	2.80	2.54	2.16	TY-145P
2	600 CT/150§	600 CT/150§	—	237-1122-ND	7.22	5.85	5.20	4.72	4.00	TY-146P

*CT = Center Tap § Split Winding

Switchmode Transformers

High Frequency Gate Drive

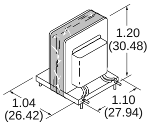

DESCRIPTION:
TRIAD gate drive transformers are used to isolate the control circuitry from the line-connected switches such as with power supplies. The windings are interleaved for the lowest possible practical leakage inductance. Maximum leakage Inductance: 2.5 μH. Features operating frequencies up to 200 kHz.

TECHNICAL NOTES:
• Hi-Pot tested: 3,750 VRMS. • Pin-out: Drive = Pins 1, 2. Gate = Pins 3, 6 and Dual Gate = Pins 3, 4; 5, 6.

Max. DCR Gate	Max. ET Product	Turns Ratio	Min. Inductance	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
.350 Ohms	540 VμSec	1:1	.680 mH	237-1111-ND	15.56	12.60	11.20	10.15	8.61	GDE25-1
.650 Ohms	540 VμSec	1:1:1	.680 mH	237-1112-ND*	15.56	12.60	11.20	10.15	8.61	GDE25-2
.350 Ohms	840 VμSec	1.5:1	1.50 mH	237-1113-ND	15.56	12.60	11.20	10.15	8.61	GDE25-3
.650 Ohms	840 VμSec	1.5:1:1	1.50 mH	237-1114-ND*	15.56	12.60	11.20	10.15	8.61	GDE25-4
.875 Ohms	540 VμSec	1:1.5	.680 mH	237-1115-ND	15.56	12.60	11.20	10.15	8.61	GDE25-5
1.75 Ohms	540 VμSec	1:1.5:1.5	.680 mH	237-1116-ND*	15.56	12.60	11.20	10.15	8.61	GDE25-6

* Dual Secondary Gate

237-1117-ND (GDE25-KIT) - 6-piece kit (one of each) **$88.89**

Switchmode / High Frequency Inductors

Common Mode Inductors

DESCRIPTION:
• TRIAD common mode EMI suppression inductors are used to eliminate noise common to all lines. • Meeting VDE, IEC, UL and CSA requirements. • Constructed with UL rated 130°C materials. • Hi-Pot Tested: 2,500 VRMS.

Fig. 1

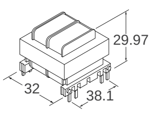

Fig. 2

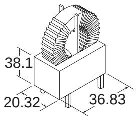

Fig. 3

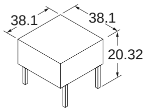

Fig.	Induct. mH min.	Amps. R.M.S	Max DC Resist. (Ohms)	Min. Leakage	Pin-Out Winding I	Pin-Out Winding II	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
							E-Core Inductors					
1	4.40	5.500	.049	45.0μH	1 & 6	7 & 12	237-1210-ND	6.78	5.49	4.88	4.43	CME375-1
	6.90	4.400	.077	70.0μH			237-1211-ND	6.78	5.49	4.88	4.43	CME375-2
	10.9	3.500	.122	125.0μH			237-1212-ND	6.78	5.49	4.88	4.43	CME375-3
	17.8	2.700	.196	180.0μH			237-1213-ND	6.78	5.49	4.88	4.43	CME375-4
	28.6	2.200	.316	300.0μH			237-1214-ND	6.78	5.49	4.88	4.43	CME375-5
	43.6	1.750	.489	440.0μH			237-1215-ND	6.78	5.49	4.88	4.43	CME375-6
	70.3	1.380	.785	720.0μH			237-1216-ND	6.78	5.49	4.88	4.43	CME375-7
	111.6	1.100	1.240	1.1mH			237-1217-ND	6.78	5.49	4.88	4.43	CME375-8
	176.1	0.870	1.980	1.8mH			237-1218-ND	6.78	5.49	4.88	4.43	CME375-9
							Encapsulated Toroidal Inductors					
2	2.00	7.50	.020	25.0μH	1 & 2	3 & 4	237-1230-ND	4.78	3.87	3.44	3.12	CMT908-V1
	4.00	5.20	.040	45.0μH			237-1231-ND	4.78	3.87	3.44	3.12	CMT908-V2
	8.00	3.20	.120	90.0μH			237-1232-ND	4.78	3.87	3.44	3.12	CMT908-V3
	16.00	2.60	.160	180.0μH			237-1233-ND	4.78	3.87	3.44	3.12	CMT908-V4
3	2.00	7.50	.020	25.0μH	1 & 2	3 & 4	237-1234-ND	4.78	3.87	3.44	3.12	CMT908-H1
	4.00	5.20	.040	45.0μH			237-1235-ND	4.78	3.87	3.44	3.12	CMT908-H2
	8.00	3.20	.120	90.0μH			237-1236-ND	4.78	3.87	3.44	3.12	CMT908-H3
	16.00	2.60	.160	180.0μH			237-1237-ND	4.78	3.87	3.44	3.12	CMT908-H4

237-1219-ND (CME375-KIT) 9 piece kit - one of each E-Core Inductor Series CME375........ **$55.56**
237-1238-ND (CMT908-KIT) 8 piece kit - one of each Encapsulated Toroidal Ind. Series CMT908........ **$33.33**

NEW! Signal Transformer

One-4-All™ International Transformers Printed Circuit Mount

Specifications:

- **Dielectric Strength:** 4000VRMS Hipot • **Insulation:** Class F insulation (155°C) • **Flammability:** Bobbin and wrap around shroud material meet UL 94V0

Agency Standards:

- UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070) • VDE certified to VDE 0805 / EN 60950 (File #1446) • VDE certified to IEC 950

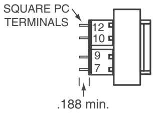

Dim. in inches

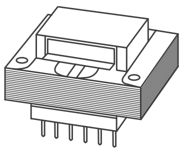

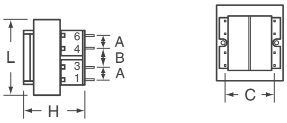

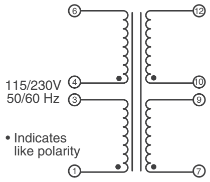

VA Size	Dimensions – Inch (mm)						Sq. Pin Dimensions	Wgt. Lbs. (Kg)
	L	W	H	A	B	C		
2.5	1.62 (41.3)	1.43 (36.5)	1.12 (28.6)	0.200 (5.08)	0.250 (6.35)	1.000 (25.4)	0.025 (0.635)	0.25 (0.113)
5	1.62 (41.3)	1.43 (36.5)	1.37 (34.9)	0.200 (5.08)	0.400 (10.16)	1.000 (25.4)	0.025 (0.635)	0.37 (0.168)
10	1.87 (47.6)	1.56 (39.7)	1.37 (34.9)	0.200 (5.08)	0.400 (10.16)	1.140 (29.0)	0.038 (0.965)	0.53 (0.240)
20	2.25 (57.2)	1.87 (47.6)	1.62 (41.3)	0.400 (10.2)	0.400 (10.16)	1.460 (37.1)	0.038 (0.965)	0.90 (0.41)
30	2.62 (66.7)	2.18 (55.5)	1.56 (39.7)	0.550 (13.9)	0.275 (7.0)	1.680 (42.7)	0.045 (1.14)	1.15 (0.52)
56	3.00 (76.2)	2.50 (63.5)	1.81 (46.0)	0.600 (15.2)	0.300 (7.6)	1.900 (48.3)	0.045 (1.14)	1.70 (0.77)

VA (Size)	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
2.5	12.6 @ 0.20	6.3 @ 0.40	595-1000-ND	10.12	8.94	7.75	14A-2.5R-12
5	12.6 @ 0.40	6.3 @ 0.80	595-1001-ND	10.94	9.66	8.37	14A-5.0R-12
10	12.6 @ 0.80	6.3 @ 1.60	595-1002-ND	12.04	10.62	9.21	14A-10R-12
20	12.6 @ 1.6	6.3 @ 3.2	595-1003-ND	14.52	12.82	11.11	14A-20-12
30	12.6 @ 2.4	6.3 @ 4.8	595-1004-ND	17.21	15.19	13.17	14A-30-12
56	12.6 @ 4.4	6.3 @ 8.8	595-1005-ND	21.61	19.07	16.53	14A-56-12
2.5	16 @ 0.15	8 @ 0.30	595-1006-ND	10.12	8.94	7.75	14A-2.5R-16
5	16 @ 0.31	8 @ 0.62	595-1007-ND	10.94	9.66	8.37	14A-5.0R-16
10	16 @ 0.62	8 @ 1.25	595-1008-ND	12.04	10.62	9.21	14A-10R-16
20	16 @ 1.25	8 @ 2.5	595-1009-ND	14.52	12.82	11.11	14A-20-16
30	16 @ 1.9	8 @ 3.8	595-1010-ND	17.21	15.19	13.17	14A-30-16
56	16 @ 3.5	8 @ 7.0	595-1011-ND	21.61	19.07	16.53	14A-56-16
2.5	20 @ 0.12	10 @ 0.24	595-1012-ND	10.12	8.94	7.75	14A-2.5R-20
5	20 @ 0.25	10 @ 0.50	595-1013-ND	10.94	9.66	8.37	14A-5.0R-20
10	20 @ 0.50	10 @ 1.00	595-1014-ND	12.04	10.62	9.21	14A-10R-20
20	20 @ 1.0	10 @ 2.0	595-1015-ND	14.52	12.82	11.11	14A-20-20
30	20 @ 1.5	10 @ 3.0	595-1016-ND	17.21	15.19	13.17	14A-30-20
56	20 @ 2.8	10 @ 5.6	595-1017-ND	21.61	19.07	16.53	14A-56-20
2.5	24 @ 0.10	12 @ 0.20	595-1018-ND	10.12	8.94	7.75	14A-2.5R-24
5	24 @ 0.21	12 @ 0.42	595-1019-ND	10.94	9.66	8.37	14A-5.0R-24
10	24 @ 0.42	12 @ 0.84	595-1020-ND	12.04	10.62	9.21	14A-10R-24
20	24 @ 0.83	12 @ 1.66	595-1021-ND	14.52	12.82	11.11	14A-20-24
30	24 @ 1.25	12 @ 2.50	595-1022-ND	17.21	15.19	13.17	14A-30-24
56	24 @ 2.33	12 @ 4.66	595-1023-ND	21.61	19.07	16.53	14A-56-24
2.5	28 @ 0.09	14 @ 0.18	595-1024-ND	10.12	8.94	7.75	14A-2.5R-28
10	28 @ 0.36	14 @ 0.72	595-1025-ND	12.04	10.62	9.21	14A-10R-28
20	28 @ 0.72	14 @ 1.44	595-1026-ND	14.52	12.82	11.11	14A-20-28
30	28 @ 1.06	14 @ 2.12	595-1027-ND	17.21	15.19	13.17	14A-30-28
56	28 @ 2.0	14 @ 4.0	595-1028-ND	21.61	19.07	16.53	14A-56-28
2.5	36 @ 0.07	18 @ 0.14	595-1029-ND	10.12	8.94	7.75	14A-2.5R-36
5	36 @ 0.14	18 @ 0.28	595-1030-ND	10.94	9.66	8.37	14A-5.0R-36
10	36 @ 0.28	18 @ 0.56	595-1031-ND	12.04	10.62	9.21	14A-10R-36
20	36 @ 0.56	18 @ 1.12	595-1032-ND	14.52	12.82	11.11	14A-20R-36
30	36 @ 0.82	18 @ 1.64	595-1033-ND	17.21	15.19	13.17	14A-30R-36
56	36 @ 1.56	18 @ 3.12	595-1034-ND	21.61	19.07	16.53	14A-56R-36

Two-4-One™ Power Transformers Chassis Mount

Split Bobbin with High Isolation

Specifications:

- **Dielectric Strength:** 2500VRMS Hipot • **Terminals:** Solder lug / quick-connect type terminals • **Insulation:** Class B (130°C) UL 1446 E66312

Agency Standards:

- UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

Dim. in inches

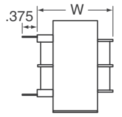

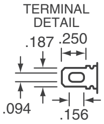

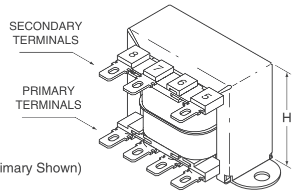

(Dual Primary Shown)

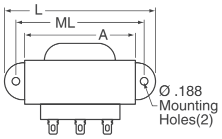

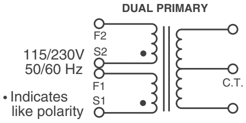

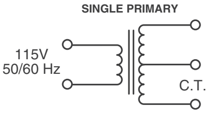

Size	VA	Dimensions – Inch (mm)					Wgt. Lbs. (Kg)
		L	W	H	A	ML (typ.)	
4	6	2.37 (60.3)	1.31 (33.3)	1.43 (36.2)	1.71 (43.4)	2.00 (50.8)	0.44 (0.20)
5	12	2.81 (71.4)	1.43 (36.3)	1.69 (42.8)	1.97 (49.9)	2.37 (60.3)	0.7 (0.32)
6	30	3.25 (82.6)	1.74 (44.3)	1.96 (49.8)	2.35 (59.3)	2.81 (71.4)	1.1 (0.50)
7	56	3.68 (93.7)	1.94 (49.2)	2.28 (57.8)	2.70 (68.4)	3.13 (79.4)	1.7 (0.77)
8	100	4.03 (102.4)	2.30 (58.5)	2.67 (67.7)	3.08 (78.2)	3.63 (92.0)	2.75 (1.25)

Size	VA	Secondary RMS Rating VCT @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
			Single Primary 115V				
4	6	10 @ 0.60	595-1035-ND	9.62	8.50	7.37	241-4-10
5	12	10 @ 1.2	595-1036-ND	10.62	9.38	8.13	241-5-10
6	30	10 @ 3.0	595-1037-ND	14.68	12.96	11.24	241-6-10
7	56	10 @ 5.0	595-1038-ND	20.13	17.77	15.39	241-7-10
8	100	10 @ 10	595-1039-ND	27.17	23.98	20.78	241-8-10
4	6	12.6 @ 0.50	595-1040-ND	9.62	8.50	7.37	241-4-12
5	12	12.6 @ 1.0	595-1041-ND	10.62	9.38	8.13	241-5-12
6	30	12.6 @ 2.5	595-1042-ND	14.68	12.96	11.24	241-6-12
7	56	12.6 @ 4.0	595-1043-ND	20.13	17.77	15.39	241-7-12
8	100	12.6 @ 8.0	595-1044-ND	27.17	23.98	20.78	241-8-12
4	6	16 @ 0.40	595-1045-ND	9.62	8.50	7.37	241-4-16
5	12	16 @ 0.80	595-1046-ND	10.62	9.38	8.13	241-5-16
6	30	16 @ 2.0	595-1047-ND	14.68	12.96	11.24	241-6-16
7	56	16 @ 3.5	595-1048-ND	20.13	17.77	15.39	241-7-16
8	100	16 @ 6.25	595-1049-ND	27.17	23.98	20.78	241-8-16
4	6	20 @ 0.30	595-1050-ND	9.62	8.50	7.37	241-4-20
5	12	20 @ 0.60	595-1051-ND	10.62	9.38	8.13	241-5-20
6	30	20 @ 1.5	595-1052-ND	14.68	12.96	11.24	241-6-20
7	56	20 @ 2.8	595-1053-ND	20.13	17.77	15.39	241-7-20
8	100	20 @ 5.0	595-1054-ND	27.17	23.98	20.78	241-8-20
4	6	24 @ 0.25	595-1055-ND	9.62	8.50	7.37	241-4-24
5	12	24 @ 0.50	595-1056-ND	10.62	9.38	8.13	241-5-24
6	30	24 @ 1.25	595-1057-ND	14.68	12.96	11.24	241-6-24
7	56	24 @ 2.4	595-1058-ND	20.13	17.77	15.39	241-7-24
8	100	24 @ 4.0	595-1059-ND	27.17	23.98	20.78	241-8-24
5	12	28 @ 0.42	595-1060-ND	10.62	9.38	8.13	241-5-28
6	30	28 @ 1.1	595-1061-ND	14.68	12.96	11.24	241-6-28
7	56	28 @ 2.0	595-1062-ND	20.13	17.77	15.39	241-7-28
8	100	28 @ 3.6	595-1063-ND	27.17	23.98	20.78	241-8-28
4	6	36 @ 0.17	595-1064-ND	9.62	8.50	7.37	241-4-36
5	12	36 @ 0.35	595-1065-ND	10.62	9.38	8.13	241-5-36
6	30	36 @ 0.85	595-1066-ND	14.68	12.96	11.24	241-6-36
7	56	36 @ 1.5	595-1067-ND	20.13	17.77	15.39	241-7-36
8	100	36 @ 2.8	595-1068-ND	27.17	23.98	20.78	241-8-36

Size	VA	Secondary RMS Rating VCT @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
			Dual Primary 115V / 230V				
4	6	10 @ 0.60	595-1069-ND	11.72	10.35	8.96	DP-241-4-10
5	12	10 @ 1.2	595-1070-ND	12.88	11.37	9.86	DP-241-5-10
6	30	10 @ 3.0	595-1071-ND	16.67	14.71	12.75	DP-241-6-10
7	56	10 @ 5.0	595-1072-ND	20.68	18.25	15.81	DP-241-7-10
8	100	10 @ 10	595-1073-ND	28.54	25.19	21.83	DP-241-8-10
4	6	12.6 @ 0.50	595-1074-ND	11.72	10.35	8.96	DP-241-4-12
5	12	12.6 @ 1.0	595-1075-ND	12.88	11.37	9.86	DP-241-5-12
6	30	12.6 @ 2.5	595-1076-ND	16.67	14.71	12.75	DP-241-6-12
7	56	12.6 @ 4.0	595-1077-ND	20.68	18.25	15.81	DP-241-7-12
8	100	12.6 @ 8.0	595-1078-ND	28.54	25.19	21.83	DP-241-8-12
4	6	16 @ 0.40	595-1079-ND	11.72	10.35	8.96	DP-241-4-16
5	12	16 @ 0.80	595-1080-ND	12.88	11.37	9.86	DP-241-5-16
6	30	16 @ 2.0	595-1081-ND	16.67	14.71	12.75	DP-241-6-16
7	56	16 @ 3.5	595-1082-ND	20.68	18.25	15.81	DP-241-7-16
8	100	16 @ 6.25	595-1083-ND	28.54	25.19	21.83	DP-241-8-16
4	6	20 @ 0.30	595-1084-ND	11.72	10.35	8.96	DP-241-4-20
5	12	20 @ 0.60	595-1085-ND	12.88	11.37	9.86	DP-241-5-20
6	30	20 @ 1.5	595-1086-ND	16.67	14.71	12.75	DP-241-6-20
7	56	20 @ 2.8	595-1087-ND	20.68	18.25	15.81	DP-241-7-20
8	100	20 @ 5.0	595-1088-ND	28.54	25.19	21.83	DP-241-8-20
4	6	24 @ 0.25	595-1089-ND	11.72	10.35	8.96	DP-241-4-24
5	12	24 @ 0.50	595-1090-ND	12.88	11.37	9.86	DP-241-5-24
6	30	24 @ 1.25	595-1091-ND	16.67	14.71	12.75	DP-241-6-24
7	56	24 @ 2.4	595-1092-ND	20.68	18.25	15.81	DP-241-7-24
8	100	24 @ 4.0	595-1093-ND	28.54	25.19	21.83	DP-241-8-24
5	12	28 @ 0.42	595-1094-ND	12.88	11.37	9.86	DP-241-5-28
6	30	28 @ 1.1	595-1095-ND	16.67	14.71	12.75	DP-241-6-28
7	56	28 @ 2.0	595-1096-ND	20.68	18.25	15.81	DP-241-7-28
8	100	28 @ 3.6	595-1097-ND	28.54	25.19	21.83	DP-241-8-28
4	6	36 @ 0.17	595-1098-ND	11.72	10.35	8.96	DP-241-4-36
5	12	36 @ 0.35	595-1099-ND	12.88	11.37	9.86	DP-241-5-36
6	30	36 @ 0.85	595-1100-ND	16.67	14.71	12.75	DP-241-6-36
7	56	36 @ 1.5	595-1101-ND	20.68	18.25	15.81	DP-241-7-36
8	100	36 @ 2.8	595-1102-ND	28.54	25.19	21.83	DP-241-8-36

NEW! Signal Transformer Flat Head™ Low Profile Transformers Printed Circuit Mount

Specifications: • Dielectric Strength: 1500VRMS Hipot • Insulation: Class B insulation (130°C)
Agency Standards: • UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

VA (Size)	Dimensions – Inch (mm) A	B	C	L	W	H	N	Wgt. oz. (kg)
2	1.60 (40.6)	0.375 (9.5)	0.375 (9.5)	1.87 (47.5)	1.56 (39.6)	0.650 (16.5)	—	5 (0.14)
6	1.60 (40.6)	0.375 (9.5)	0.375 (9.5)	1.87 (47.5)	1.56 (39.6)	0.850 (21.6)	—	7 (0.20)
12	2.00 (50.8)	0.50 (12.7)	0.50 (12.7)	2.50 (63.5)	2.00 (50.8)	1.065 (27.1)	—	11 (0.31)
24	1.90 (48.3)	0.60 (15.2)	0.53 (13.5)	2.87 (72.9)	2.25 (57.2)	1.250 (31.8)	2.41 (61.2)	15 (0.43)
48	2.18 (55.4)	0.60 (15.2)	0.66 (16.8)	3.12 (79.2)	2.50 (63.5)	1.375 (34.9)	2.62 (66.5)	21 (0.60)

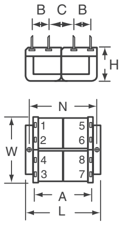

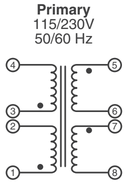

• Indicates like polarity

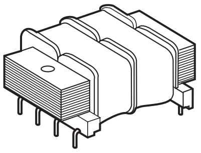

VA (Size)	Series VCT @ mA	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
2	10 @ 250	5 @ 0.5	595-1308-ND	13.12	9.84	8.53	LP-10-250
6	10 @ 600	5 @ 1.2	595-1309-ND	14.44	10.83	9.38	LP-10-600
12	10 @ 1200	5 @ 2.4	595-1310-ND	18.50	13.89	12.03	LP-10-1200
24	10 @ 2400	5 @ 4.8	595-1311-ND	20.52	15.40	13.34	LP-10-2400
48	10 @ 4800	5 @ 9.6	595-1312-ND	25.03	18.77	16.28	LP-10-4800
2	12.6 @ 200	6.3 @ 0.4	595-1313-ND	13.12	9.84	8.53	LP-12-200
6	12.6 @ 450	6.3 @ 0.9	595-1314-ND	14.44	10.83	9.38	LP-12-450
12	12.6 @ 900	6.3 @ 1.8	595-1315-ND	18.50	13.89	12.03	LP-12-900
24	12.6 @ 1900	6.3 @ 3.8	595-1316-ND	20.52	15.40	13.34	LP-12-1900
48	12.6 @ 3800	6.3 @ 7.6	595-1317-ND	25.03	18.77	16.28	LP-12-3800
2	16 @ 150	8 @ 0.3	595-1318-ND	13.12	9.84	8.53	LP-16-150
6	16 @ 350	8 @ 0.7	595-1319-ND	14.44	10.83	9.38	LP-16-350
12	16 @ 700	8 @ 1.4	595-1320-ND	18.50	13.89	12.03	LP-16-700
24	16 @ 1500	8 @ 3.0	595-1321-ND	20.52	15.40	13.34	LP-16-1500
48	16 @ 3000	8 @ 6.0	595-1322-ND	25.03	18.77	16.28	LP-16-3000
2	20 @ 125	10 @ 0.25	595-1323-ND	13.12	9.84	8.53	LP-20-125
12	20 @ 600	10 @ 1.2	595-1324-ND	18.50	13.89	12.03	LP-20-600
24	20 @ 1200	10 @ 2.4	595-1325-ND	20.52	15.40	13.34	LP-20-1200
48	20 @ 2400	10 @ 4.8	595-1326-ND	25.03	18.77	16.28	LP-20-2400

VA (Size)	Series VCT @ A	Parallel V @ A	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
2	24 @ 100	12 @ 0.2	595-1327-ND	13.12	9.84	8.53	LP-24-100
6	24 @ 250	12 @ 0.5	595-1328-ND	14.44	10.83	9.38	LP-24-250
12	24 @ 500	12 @ 1.0	595-1329-ND	18.50	13.89	12.03	LP-24-500
24	24 @ 1000	12 @ 2.0	595-1330-ND	20.52	15.40	13.34	LP-24-1000
48	24 @ 2000	12 @ 4.0	595-1331-ND	25.03	18.77	16.28	LP-24-2000
2	30 @ 85	15 @ 0.17	595-1332-ND	13.12	9.84	8.53	LP-30-85
6	30 @ 200	15 @ 0.4	595-1333-ND	14.44	10.83	9.38	LP-30-200
12	30 @ 400	15 @ 0.8	595-1334-ND	18.50	13.89	12.03	LP-30-400
24	30 @ 800	15 @ 1.6	595-1335-ND	20.52	15.40	13.34	LP-30-800
48	30 @ 1600	15 @ 3.2	595-1336-ND	25.03	18.77	16.28	LP-30-1600
2	34 @ 75	17 @ 0.15	595-1337-ND	13.12	9.84	8.53	LP-34-75
6	34 @ 170	17 @ 0.34	595-1338-ND	14.44	10.83	9.38	LP-34-170
12	34 @ 340	17 @ 0.68	595-1339-ND	18.50	13.89	12.03	LP-34-340
24	34 @ 700	17 @ 1.4	595-1340-ND	20.52	15.40	13.34	LP-34-700
48	34 @ 1400	17 @ 2.8	595-1341-ND	25.03	18.77	16.28	LP-34-1400
2	40 @ 60	20 @ 0.12	595-1342-ND	13.12	9.84	8.53	LP-40-60
6	40 @ 150	20 @ 0.3	595-1343-ND	14.44	10.83	9.38	LP-40-150
12	40 @ 300	20 @ 0.6	595-1344-ND	18.50	13.89	12.03	LP-40-300
24	40 @ 600	20 @ 1.2	595-1345-ND	20.52	15.40	13.34	LP-40-600
48	40 @ 1200	20 @ 2.4	595-1346-ND	25.03	18.77	16.28	LP-40-1200

Miniature Low Power Transformers

Signal's PC low power transformers are designed to operate between 50 and 500Hz without any degradation in output voltage.
Specifications: • Dielectric Strength: 1500VRMS Hipot • Insulation: Class B insulation (130°C)
Agency Standards: • UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

VA Size	Dimensions – Inch (mm) L	W	H	A (6-Pin)	A (8-Pin)	B	Wgt. oz. (kg)
1.2	1.37 (34.9)	1.12 (28.6)	1.18 (30.15)	0.312 (7.92)	0.200 (5.08)	1.030 (26.2)	3 (0.08)
4.4	1.62 (41.3)	1.25 (31.8)	1.37 (34.92)	0.400 (10.16)	0.250 (6.35)	1.130 (28.7)	5 (0.14)
10	1.87 (47.6)	1.43 (36.5)	1.62 (41.27)	0.400 (10.16)	0.250 (6.35)	1.330 (38.8)	9 (0.23)
24	1.62 (41.3)	2.25 (57.2)	1.37 (34.93)	0.400 (10.16)	0.250 (6.35)	2.130 (54.1)	12 (0.34)

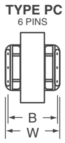

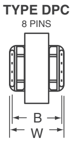

Single 115V Primary
Type PC 6 Pins

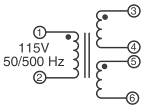

• Indicates like polarity

Dual 115/230V Primary
Type DPC 8 Pins

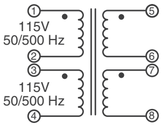

• Indicates like polarity

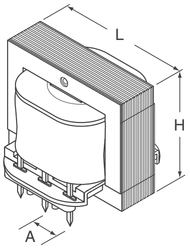

VA (Size)	Series VCT @ mA	Parallel V @ mA	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
Single Primary 115V (6 Pin) — Type PC							
1.2	12.6 @ 100	6.3 @ 200	595-1103-ND	7.87	6.95	6.02	PC-12-100
4.4	12.6 @ 350	6.3 @ 700	595-1104-ND	9.23	8.15	7.07	PC-12-350
10	12.6 @ 800	6.3 @ 1600	595-1105-ND	10.69	9.43	8.19	PC-12-800
24	12.6 @ 2000	6.3 @ 4000	595-1106-ND	14.96	13.20	11.44	PC-12-2000
1.2	16 @ 75	8 @ 150	595-1107-ND	7.87	6.95	6.02	PC-16-75
4.4	16 @ 260	8 @ 520	595-1108-ND	9.23	8.15	7.07	PC-16-260
10	16 @ 640	8 @ 1280	595-1109-ND	10.69	9.43	8.19	PC-16-640
24	16 @ 1500	8 @ 3000	595-1110-ND	14.96	13.20	11.44	PC-16-1500
1.2	20 @ 60	10 @ 120	595-1111-ND	7.87	6.95	6.02	PC-20-60
4.4	20 @ 220	10 @ 440	595-1112-ND	9.23	8.15	7.07	PC-20-220
10	20 @ 500	10 @ 1000	595-1113-ND	10.69	9.43	8.19	PC-20-500
24	20 @ 1200	10 @ 2400	595-1114-ND	14.96	13.20	11.44	PC-20-1200
1.2	24 @ 50	12 @ 100	595-1115-ND	7.87	6.95	6.02	PC-24-50
4.4	24 @ 180	12 @ 360	595-1116-ND	9.23	8.15	7.07	PC-24-180
10	24 @ 450	12 @ 900	595-1117-ND	10.69	9.43	8.19	PC-24-450
24	24 @ 1000	12 @ 2000	595-1118-ND	14.96	13.20	11.44	PC-24-1000
1.2	28 @ 40	14 @ 80	595-1119-ND	7.87	6.95	6.02	PC-28-40
4.4	28 @ 160	14 @ 320	595-1120-ND	9.23	8.15	7.07	PC-28-160
10	28 @ 360	14 @ 720	595-1121-ND	10.69	9.43	8.19	PC-28-360
24	28 @ 800	14 @ 1600	595-1122-ND	14.96	13.20	11.44	PC-28-800
1.2	34 @ 35	17 @ 70	595-1123-ND	7.87	6.95	6.02	PC-34-35
4.4	34 @ 125	17 @ 250	595-1124-ND	9.23	8.15	7.07	PC-34-125
10	34 @ 300	17 @ 600	595-1125-ND	10.69	9.43	8.19	PC-34-300
24	34 @ 700	17 @ 1400	595-1126-ND	14.96	13.20	11.44	PC-34-700
1.2	40 @ 30	20 @ 60	595-1127-ND	7.87	6.95	6.02	PC-40-30
4.4	40 @ 110	20 @ 220	595-1129-ND	9.23	8.15	7.07	PC-40-110
10	40 @ 250	20 @ 500	595-1130-ND	10.69	9.43	8.19	PC-40-250
24	40 @ 600	20 @ 1200	595-1128-ND	14.96	13.20	11.44	PC-40-600

VA (Size)	Series VCT @ mA	Parallel V @ mA	Digi-Key Part No.	Price Each 1	10	25	Signal Transformer Part No.
Dual Primary 115V / 230V (8 Pin) — Type DPC							
1.2	12.6 @ 100	6.3 @ 200	595-1131-ND	9.14	8.07	6.99	DPC-12-100
4.4	12.6 @ 350	6.3 @ 700	595-1132-ND	10.69	9.43	8.19	DPC-12-350
10	12.6 @ 800	6.3 @ 1600	595-1133-ND	12.45	10.98	9.52	DPC-12-800
24	12.6 @ 2000	6.3 @ 4000	595-1134-ND	16.44	14.50	12.58	DPC-12-2000
1.2	16 @ 75	8 @ 150	595-1135-ND	9.14	8.07	6.99	DPC-16-75
4.4	16 @ 260	8 @ 520	595-1136-ND	10.69	9.43	8.19	DPC-16-260
10	16 @ 640	8 @ 1280	595-1137-ND	12.45	10.98	9.52	DPC-16-640
24	16 @ 1500	8 @ 3000	595-1138-ND	16.44	14.50	12.58	DPC-16-1500
1.2	20 @ 60	10 @ 120	595-1139-ND	9.14	8.07	6.99	DPC-20-60
4.4	20 @ 220	10 @ 440	595-1140-ND	10.69	9.43	8.19	DPC-20-220
10	20 @ 500	10 @ 1000	595-1141-ND	12.45	10.98	9.52	DPC-20-500
24	20 @ 1200	10 @ 2400	595-1142-ND	16.44	14.50	12.58	DPC-20-1200
1.2	24 @ 50	12 @ 100	595-1143-ND	9.14	8.07	6.99	DPC-24-50
4.4	24 @ 180	12 @ 360	595-1144-ND	10.69	9.43	8.19	DPC-24-180
10	24 @ 450	12 @ 900	595-1145-ND	12.45	10.98	9.52	DPC-24-450
24	24 @ 1000	12 @ 2000	595-1146-ND	16.44	14.50	12.58	DPC-24-1000
1.2	28 @ 40	14 @ 80	595-1147-ND	9.14	8.07	6.99	DPC-28-40
4.4	28 @ 160	14 @ 320	595-1148-ND	10.69	9.43	8.19	DPC-28-160
10	28 @ 360	14 @ 720	595-1149-ND	12.45	10.98	9.52	DPC-28-360
24	28 @ 800	14 @ 1600	595-1150-ND	16.44	14.50	12.58	DPC-28-800
1.2	34 @ 35	17 @ 70	595-1151-ND	9.14	8.07	6.99	DPC-34-35
4.4	34 @ 125	17 @ 250	595-1152-ND	10.69	9.43	8.19	DPC-34-125
10	34 @ 300	17 @ 600	595-1153-ND	12.45	10.98	9.52	DPC-34-300
24	34 @ 700	17 @ 1400	595-1154-ND	16.44	14.50	12.58	DPC-34-700
1.2	40 @ 30	20 @ 60	595-1155-ND	9.14	8.07	6.99	DPC-40-30
4.4	40 @ 110	20 @ 220	595-1156-ND	10.69	9.43	8.19	DPC-40-110
10	40 @ 250	20 @ 500	595-1157-ND	12.45	10.98	9.52	DPC-40-250
24	40 @ 600	20 @ 1200	595-1158-ND	16.44	14.50	12.58	DPC-40-600

NEW! Signal Transformer Split/Tran™ Low Power Transformers

Split Bobbin with High Isolation

Signal's ST and DST transformers use a split bobbin that provides superior islolation and low capacitive coupling.

Specifications: • **Dielectric Strength:** 2500VRMS Hipot • **Insulation:** Class B insulation (130°C)
Agency Standards: • UL 1446 (E66312) • UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070)

Size	VA	Dimensions – Inch (mm) L	W	H	ML	A	B	C	Optional Mtg. Screw & Nut	Wgt. lbs. (kg)
2	1.1	1.37 (34.9)	1.12 (28.6)	0.97 (24.6)	—	0.250 (6.4)	0.250 (6.4)	1.200 (30.5)	None	0.17 (0.08)
3	2.4	1.37 (34.9)	1.12 (28.6)	1.21 (30.8)	—	0.250 (6.4)	0.250 (6.4)	1.200 (30.5)		0.25 (0.11)
4	6	1.62 (41.3)	1.31 (33.3)	1.31 (33.3)	1.06 (26.9)	0.250 (6.4)	0.350 (8.9)	1.250 (32.5)	4-40 x 1.37 Nylon; (4-40 x 34.9mm)	0.44 (0.20)
5	12	1.91 (48.4)	1.59 (40.4)	1.45 (36.9)	1.25 (31.8)	0.300 (7.6)	0.400 (10.2)	1.410 (35.8)		0.70 (0.32)
6	20	2.25 (57.2)	1.88 (47.8)	1.45 (36.9)	1.50 (38.1)	0.300 (7.6)	0.400 (10.2)	1.600 (40.6)		0.80 (0.36)
7	36	2.62 (66.7)	2.18 (55.5)	1.59 (40.4)	†	0.400 (10.2)	0.400 (10.2)	1.850 (47.0)	†	1.1 (0.50)

† Size 7 has 4 Mtg. holes on 2.18 x 1.75 centers for a #6 screw. Need not be nylon.

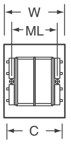

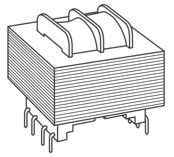

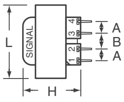

NOTE: Pins 2 & 3 omittied on single primary versions

TYPE ST
Single Primary
6 PIN

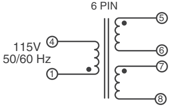

• Indicates like polarity

TYPE DST
Dual Primary
8 PIN

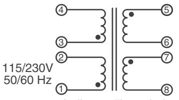

• Indicates like polarity

Size	VA	Series	Parallel	Digi-Key	Price Each			Signal Transformer
		VCT @ A	V @ A	Part No.	1	10	25	Part No.
Single Primary 115V (6 Pin) — Type ST								
2	1.1	12.6 @ 0.09	6.3 @ 0.18	595-1159-ND	8.37	7.39	6.40	ST-2-12
3	2.4	12.6 @ 0.2	6.3 @ 0.4	595-1160-ND	8.41	7.42	6.44	ST-3-12
4	6	12.6 @ 0.5	6.3 @ 1.0	595-1161-ND	9.69	8.55	7.41	ST-4-12
5	12	12.6 @ 1.0	6.3 @ 2.0	595-1162-ND	10.94	9.66	8.37	ST-5-12
6	20	12.6 @ 1.6	6.3 @ 3.2	595-1163-ND	10.94	9.66	8.37	ST-6-12
2	1.1	16 @ 0.07	8 @ 0.14	595-1164-ND	8.37	7.39	6.40	ST-2-16
3	2.4	16 @ 0.15	8 @ 0.3	595-1165-ND	8.41	7.42	6.44	ST-3-16
4	6	16 @ 0.4	8 @ 0.8	595-1166-ND	9.69	8.55	7.41	ST-4-16
5	12	16 @ 0.8	8 @ 1.6	595-1167-ND	10.94	9.66	8.37	ST-5-16
6	20	16 @ 1.25	8 @ 2.5	595-1168-ND	10.94	9.66	8.37	ST-6-16
7	36	16 @ 2.25	8 @ 4.5	595-1169-ND	15.96	14.08	12.21	ST-7-16
2	1.1	20 @ 0.055	10 @ 0.11	595-1170-ND	8.37	7.39	6.40	ST-2-20
3	2.4	20 @ 0.12	10 @ 0.24	595-1171-ND	8.41	7.42	6.44	ST-3-20
4	6	20 @ 0.3	10 @ 0.6	595-1172-ND	9.69	8.55	7.41	ST-4-20
5	12	20 @ 0.6	10 @ 1.2	595-1173-ND	10.94	9.66	8.37	ST-5-20
6	20	20 @ 1.0	10 @ 2.0	595-1174-ND	10.94	9.66	8.37	ST-6-20
7	36	20 @ 1.8	10 @ 3.6	595-1175-ND	15.96	14.08	12.21	ST-7-20
2	1.1	24 @ 0.045	12 @ 0.09	595-1176-ND	8.37	7.39	6.40	ST-2-24
3	2.4	24 @ 0.1	12 @ 0.2	595-1177-ND	8.41	7.42	6.44	ST-3-24
4	6	24 @ 0.25	12 @ 0.5	595-1178-ND	9.69	8.55	7.41	ST-4-24
5	12	24 @ 0.5	12 @ 1.0	595-1179-ND	10.94	9.66	8.37	ST-5-24
6	20	24 @ 0.8	12 @ 1.6	595-1180-ND	10.94	9.66	8.37	ST-6-24
7	36	24 @ 1.5	12 @ 3.0	595-1181-ND	15.96	14.08	12.21	ST-7-24
2	1.1	28 @ 0.04	14 @ 0.08	595-1182-ND	8.37	7.39	6.40	ST-2-28
3	2.4	28 @ 0.085	14 @ 0.17	595-1183-ND	8.41	7.42	6.44	ST-3-28
4	6	28 @ 0.2	14 @ 0.4	595-1184-ND	9.69	8.55	7.41	ST-4-28
5	12	28 @ 0.42	14 @ 0.84	595-1185-ND	10.94	9.66	8.37	ST-5-28
6	20	28 @ 0.7	14 @ 1.4	595-1186-ND	10.94	9.66	8.37	ST-6-28
7	36	28 @ 1.3	14 @ 2.6	595-1187-ND	15.96	14.08	12.21	ST-7-28
2	1.1	36 @ 0.03	18 @ 0.06	595-1188-ND	8.37	7.39	6.40	ST-2-36
3	2.4	36 @ 0.065	18 @ 0.13	595-1189-ND	8.41	7.42	6.44	ST-3-36
4	6	36 @ 0.17	18 @ 0.34	595-1190-ND	9.69	8.55	7.41	ST-4-36
5	12	36 @ 0.35	18 @ 0.7	595-1191-ND	10.94	9.66	8.37	ST-5-36
6	20	36 @ 0.55	18 @ 1.1	595-1192-ND	10.94	9.66	8.37	ST-6-36
7	36	36 @ 1.0	18 @ 2.0	595-1193-ND	15.96	14.08	12.21	ST-7-36

Size	VA	Series	Parallel	Digi-Key	Price Each			Signal Transformer
		VCT @ A	V @ A	Part No.	1	10	25	Part No.
Dual Primary 115V / 230V (8 Pin) — Type DST								
2	1.1	12.6 @ 0.09	6.3 @ 0.18	595-1194-ND	9.73	8.59	7.45	DST-2-12
3	2.4	12.6 @ 0.2	6.3 @ 0.4	595-1195-ND	9.85	8.69	7.54	DST-3-12
4	6	12.6 @ 0.5	6.3 @ 1.0	595-1196-ND	10.69	9.43	8.19	DST-4-12
5	12	12.6 @ 1.0	6.3 @ 2.0	595-1197-ND	12.27	10.83	9.38	DST-5-12
6	20	12.6 @ 1.6	6.3 @ 3.2	595-1198-ND	14.96	13.20	11.44	DST-6-12
2	1.1	16 @ 0.07	8 @ 0.14	595-1199-ND	9.73	8.59	7.45	DST-2-16
3	2.4	16 @ 0.15	8 @ 0.3	595-1200-ND	9.85	8.69	7.54	DST-3-16
4	6	16 @ 0.4	8 @ 0.8	595-1201-ND	10.69	9.43	8.19	DST-4-16
5	12	16 @ 0.8	8 @ 1.6	595-1202-ND	12.27	10.83	9.38	DST-5-16
6	20	16 @ 1.25	8 @ 2.5	595-1203-ND	14.96	13.20	11.44	DST-6-16
7	36	16 @ 2.25	8 @ 4.5	595-1204-ND	17.87	15.78	13.67	DST-7-16
2	1.1	20 @ 0.055	10 @ 0.11	595-1205-ND	9.73	8.59	7.45	DST-2-20
3	2.4	20 @ 0.12	10 @ 0.24	595-1206-ND	9.85	8.69	7.54	DST-3-20
4	6	20 @ 0.3	10 @ 0.6	595-1207-ND	10.69	9.43	8.19	DST-4-20
5	12	20 @ 0.6	10 @ 1.2	595-1208-ND	12.27	10.83	9.38	DST-5-20
6	20	20 @ 1.0	10 @ 2.0	595-1209-ND	14.96	13.20	11.44	DST-6-20
7	36	20 @ 1.8	10 @ 3.6	595-1210-ND	17.87	15.78	13.67	DST-7-20
2	1.1	24 @ 0.045	12 @ 0.09	595-1211-ND	9.73	8.59	7.45	DST-2-24
3	2.4	24 @ 0.1	12 @ 0.2	595-1212-ND	9.85	8.69	7.54	DST-3-24
4	6	24 @ 0.25	12 @ 0.5	595-1213-ND	10.69	9.43	8.19	DST-4-24
5	12	24 @ 0.5	12 @ 1.0	595-1214-ND	12.27	10.83	9.38	DST-5-24
6	20	24 @ 0.8	12 @ 1.6	595-1215-ND	14.96	13.20	11.44	DST-6-24
7	36	24 @ 1.5	12 @ 3.0	595-1216-ND	17.87	15.78	13.67	DST-7-24
2	1.1	28 @ 0.04	14 @ 0.08	595-1217-ND	9.73	8.59	7.45	DST-2-28
3	2.4	28 @ 0.085	14 @ 0.17	595-1218-ND	9.85	8.69	7.54	DST-3-28
4	6	28 @ 0.2	14 @ 0.4	595-1219-ND	10.69	9.43	8.19	DST-4-28
5	12	28 @ 0.42	14 @ 0.84	595-1220-ND	12.27	10.83	9.38	DST-5-28
6	20	28 @ 0.7	14 @ 1.4	595-1221-ND	14.96	13.20	11.44	DST-6-28
7	36	28 @ 1.3	14 @ 2.6	595-1222-ND	17.87	15.78	13.67	DST-7-28
2	1.1	36 @ 0.03	18 @ 0.06	595-1223-ND	9.73	8.59	7.45	DST-2-36
3	2.4	36 @ 0.065	18 @ 0.13	595-1224-ND	9.85	8.69	7.54	DST-3-36
4	6	36 @ 0.17	18 @ 0.34	595-1225-ND	10.69	9.43	8.19	DST-4-36
5	12	36 @ 0.35	18 @ 0.7	595-1226-ND	12.27	10.83	9.38	DST-5-36
6	20	36 @ 0.55	18 @ 1.1	595-1227-ND	14.96	13.20	11.44	DST-6-36
7	36	36 @ 1.0	18 @ 2.0	595-1228-ND	17.87	15.78	13.67	DST-7-36

All-4-One™ International Transformers Chassis Mount

Specifications:
• **Dielectric Strength:** 4000VRMS Hipot • **Primaries:** Dual primaries (115/230V — 50/60Hz) • **Leakage:** Current meets UL 60601-1, IEC/EN 60601-1 • **Insulation:** Class F insulation (155°C) • **Flammability Rating:** Bobbin and shroud material meet UL 94V0

Agency Standards: • UL recognized to UL 506 (File #E63829) • CSA certified to C22.2 #66 (File #221070) • VDE certified to VDE 0805 / EN 60950 (File #1448)

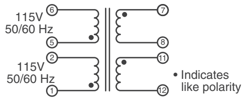

• Indicates like polarity

VA Size	Mtg. Style	Dimensions – Inch (mm) L	W	H	C	ML	Terminals	Mtg. Screw	Wgt. lbs. (kg)
25	C	2.81 (71.4)	2.14 (54.4)	2.31 (58.7)	0.31 (7.9)	2.37 (60.3)	0.187 (4.75)	#6	1.25 (0.57)
43	C	3.12 (79.4)	2.14 (54.4)	2.68 (68.2)	0.31 (7.9)	2.81 (71.4)	0.187 (4.75)	#6	1.6 (0.73)
80	B	2.50 (63.5)	2.52 (64.3)	3.00 (76.2)	0.31 (7.9)	2.00 (50.8)	0.187 (4.75)	#6	2.8 (1.27)
130	B	2.81 (71.4)	3.00 (76.2)	3.37 (85.7)	0.37 (9.5)	2.25 (57.2)	0.25 (6.35)	#8	4.1 (1.86)
175	B	3.12 (79.4)	3.14 (79.7)	3.75 (95.3)	0.37 (9.5)	2.50 (63.5)	0.25 (6.35)	#8	5.5 (2.49)

MOUNTING STYLE B
BOTTOM VIEW

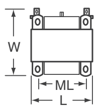

MOUNTING STYLE C
BOTTOM VIEW

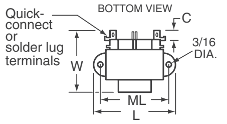

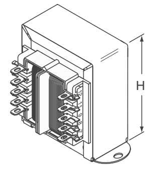

(Mounting Style C Shown)

VA (Size)	Series	Parallel	Digi-Key	Price Each			Signal Transformer
	VCT @ A	V @ A	Part No.	1	10	25	Part No.
43	12.6 @ 3.4	6.3 @ 6.8	595-1274-ND	21.18	18.69	16.20	A41-43-12
80	12.6 @ 6.3	6.3 @ 12.6	595-1275-ND	28.93	25.53	22.12	A41-80-12
130	12.6 @ 10.3	6.3 @ 20.6	595-1276-ND	38.71	34.16	29.61	A41-130-12
175	12.6 @ 14.0	6.3 @ 28.0	595-1277-ND	44.57	39.33	34.09	A41-175-12
25	16 @ 1.6	8 @ 3.2	595-1278-ND	16.44	14.50	12.58	A41-25-16
43	16 @ 2.7	8 @ 5.4	595-1279-ND	21.18	18.69	16.20	A41-43-16
80	16 @ 5.0	8 @ 10.0	595-1280-ND	28.93	25.53	22.12	A41-80-16
130	16 @ 8.1	8 @ 16.2	595-1281-ND	38.71	34.16	29.61	A41-130-16
175	16 @ 11.0	8 @ 22.0	595-1282-ND	44.57	39.33	34.09	A41-175-16
25	20 @ 1.25	10 @ 2.5	595-1283-ND	16.44	14.50	12.58	A41-25-20
43	20 @ 2.2	10 @ 4.4	595-1284-ND	21.18	18.69	16.20	A41-43-20
80	20 @ 4.0	10 @ 8.0	595-1285-ND	28.93	25.53	22.12	A41-80-20
130	20 @ 6.5	10 @ 13.0	595-1286-ND	38.71	34.16	29.61	A41-130-20
175	20 @ 8.8	10 @ 17.6	595-1287-ND	44.57	39.33	34.09	A41-175-20
25	24 @ 1.0	12 @ 2.0	595-1288-ND	16.44	14.50	12.58	A41-25-24
43	24 @ 1.8	12 @ 3.6	595-1289-ND	21.18	18.69	16.20	A41-43-24
80	24 @ 3.3	12 @ 6.6	595-1290-ND	28.93	25.53	22.12	A41-80-24

VA (Size)	Series	Parallel	Digi-Key	Price Each			Signal Transformer
	VCT @ A	V @ A	Part No.	1	10	25	Part No.
130	24 @ 5.4	12 @ 10.8	595-1291-ND	38.71	34.16	29.61	A41-130-24
175	24 @ 7.3	12 @ 14.6	595-1292-ND	44.57	39.33	34.09	A41-175-24
25	28 @ 0.9	14 @ 1.86	595-1293-ND	16.44	14.50	12.58	A41-25-28
43	28 @ 1.5	14 @ 3.0	595-1294-ND	21.18	18.69	16.20	A41-43-28
80	28 @ 2.8	14 @ 5.6	595-1295-ND	28.93	25.53	22.12	A41-80-28
130	28 @ 4.6	14 @ 9.2	595-1296-ND	38.71	34.16	29.61	A41-130-28
175	28 @ 6.25	14 @ 12.5	595-1297-ND	44.57	39.33	34.09	A41-175-28
25	36 @ 0.7	18 @ 1.4	595-1298-ND	16.44	14.50	12.58	A41-25-36
43	36 @ 1.2	18 @ 2.4	595-1299-ND	21.18	18.69	16.20	A41-43-36
80	36 @ 2.2	18 @ 4.4	595-1300-ND	28.93	25.53	22.12	A41-80-36
130	36 @ 3.6	18 @ 7.2	595-1301-ND	38.71	34.16	29.61	A41-130-36
175	36 @ 4.8	18 @ 9.6	595-1302-ND	44.57	39.33	34.09	A41-175-36
25	230 @ 0.11	115 @ 0.22	595-1303-ND	16.44	14.50	12.58	A41-25-230
43	230 @ 0.19	115 @ 0.38	595-1304-ND	21.18	18.69	16.20	A41-43-230
80	230 @ 0.35	115 @ 0.7	595-1305-ND	28.93	25.53	22.12	A41-80-230
130	230 @ 0.57	115 @ 1.14	595-1306-ND	38.71	34.16	29.61	A41-130-230
175	230 @ 0.76	115 @ 1.52	595-1307-ND	44.57	39.33	34.09	A41-175-230

TEXAS INSTRUMENTS Integrated Switching Regulators

Texas Instruments manufactures the industry's smallest, most efficient and easy to use Integrated Switching Regulators (ISRs). Using a unique, proprietary design which employs 1 MHz switching technology to produce state-of-the-art power densities, these ISRs let you select the product performance that exactly matches your application. **Features:** • Easy to use – just plug them in. In most cases, only one external component is required, if any • Output voltages are laser-trimmed for accuracy • High efficiencies and low component counts combine to yield MTBFs in excess of 1,000,000 hours

Additional drawings on the following pages.

Fig. 1 Package Style EA(x)

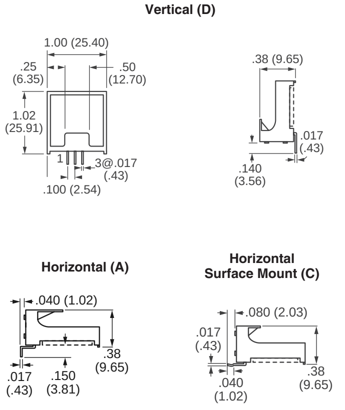

Fig. 2 Package Style EB(x) (12 Pin SIP)

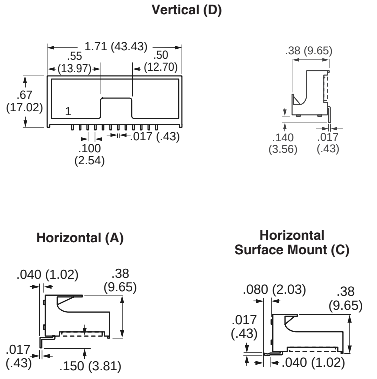

Fig. 3 Package Style EC(x) (12 Pin SIP) / ED(x) (14 Pin SIP)

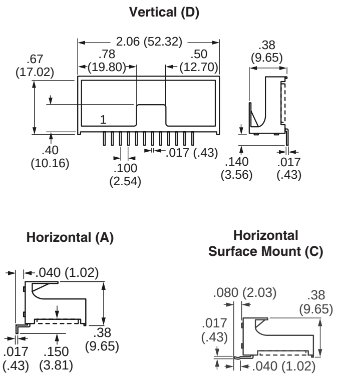

Fig.	Pkg. Style	DC Voltage Output (Vout)	Maximum Amp Output (Iout)	Minimum Amp Output (Iout)	DC Input Voltage Range (Vin)	Circuit Board Orientation	External Components Required*	Over-Temp Protection	Short Circuit Protection	Vout Adj.	On/Off Control†	Remote Sense	Fast Transient Response	Recommended Operating Temperature Range (°C)	Digi-Key Part No.	Price Each 1	25	100
Variable Output ISR's																		
8	ELA	1.3 ~ 3.5 (s)	13.00	.10 (a)	4.5 ~ 5.5	Horz.	1000µF/IN, 330µF/OUT, 10k/Power Good	—	X	X (t)	Stnby	X	—	-40(d) ~ 85 (e)	PT6701A-ND	31.80	29.68	27.56
8	ELC	1.3 ~ 3.5 (s)	13.00	.10 (a)	4.5 ~ 5.5	Horz. SMD	1000µF/IN, 330µF/OUT, 10k/Power Good	—	X	X (t)	Stnby	X	—	-40(d) ~ 85 (e)	PT6701C-ND	31.80	29.68	27.56
8	ELD	1.3 ~ 3.5 (s)	13.00	.10 (a)	4.5 ~ 5.5	Vert.	1000µF/IN, 330µF/OUT, 10k/Power Good	—	X	X (t)	Stnby	X	—	-40(d) ~ 85 (e)	PT6701N-ND	31.80	29.68	27.56
8	ELA	1.3 ~ 3.5 (s)	14.00	.10 (a)	10.8 ~ 13.2	Horz.	1000µF/IN, 330µF/OUT, 10k/Power Good	—	X	X (t)	Stnby	X	—	-40(d) ~ 85 (e)	PT6721A-ND	31.80	29.68	27.56
8	ELC	1.3 ~ 3.5 (s)	14.00	.10 (a)	10.8 ~ 13.2	Horz. SMD	1000µF/IN, 330µF/OUT, 10k/Power Good	—	X	X (t)	Stnby	X	—	-40(d) ~ 85 (e)	PT6721C-ND	31.80	29.68	27.56
10	ENF	1.3 ~ 3.5	20.00 (l)	.10 (a)	4.5 ~ 5.5	Horz.	1500µF/IN, 330µF/OUT	—	X	X (t)	Stnby	X (r)	—	-40 ~ 85 (d,e)	PT7711A-ND	53.61	50.04	46.47
10	ENG	1.3 ~ 3.5	20.00 (l)	.10 (a)	4.5 ~ 5.5	Horz. SMD	1500µF/IN, 330µF/OUT	—	X	X (t)	Stnby	X (r)	—	-40 ~ 85 (d,e)	PT7711C-ND	53.61	50.04	46.47
11	EKF	1.3 ~ 3.5 (t)	30.00	.10 (a)	10.8 ~ 13.2	Horz.	1500uF/IN, 660 or 1200uF/OUT (p)	X	X	X (t)	Stnby	X	X	-40 ~ 85 (d,e)	PT8121A-ND	71.63	66.85	62.08
Single Output ISR's																		
6	EFL	1.2	3.00	0.10 (a)	3.1 ~ 5.5	Horz.	100uF/OUT (n)	—	X	X	Inhibit	—	—	-40 ~ 85 (d,e)	PT5506A-ND	18.05	16.85	15.64
	EFL	1.2	5.50-6.00 (m)	0.0	3.1 ~ 5.5	Horz.	100uF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (d)	PT5406A-ND	17.78	16.59	15.41
	EFL	1.5	3.00	0.10 (a)	3.1 ~ 5.5	Horz.	100uF/OUT (n)	—	X	X	Inhibit	—	—	-40 ~ 85 (d,e)	PT5505A-ND	18.05	16.85	15.64
	EFL	1.5	5.50-6.00 (m)	0.0	3.1 ~ 5.5	Horz.	100uF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (d)	PT5405A-ND	17.78	16.59	15.41
	EFL	1.8	3.00	0.10 (a)	3.1 ~ 5.5	Horz.	100uF/OUT (n)	—	X	X	Inhibit	—	—	-40 ~ 85 (d,e)	PT5504A-ND	18.05	16.85	15.64
6	EFL	2.5	3.00	0.10 (a)	3.1 ~ 5.5	Horz.	100uF/OUT (n)	—	X	X	Inhibit	—	—	-40 ~ 85 (d,e)	PT5502A-ND	18.05	16.85	15.64
6	EFL	2.5	5.50-6.00 (m)	0.0	4.5 ~ 5.5	Horz.	100uF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (d)	PT5402A-ND	17.78	16.59	15.41
1	EAA	3.3	1.00	.10 (a)	9 ~ 26	Horz.	100µF (n)	X	X	—	—	—	—	-20 ~ 80 (b)	PT5103A-ND	12.25	11.03	9.78
1	EAC	3.3	1.00	.10 (a)	9 ~ 26	Horz. SMD	100µF (n)	X	X	—	—	—	—	-20 ~ 80 (b)	PT5103C-ND	12.25	11.03	9.78
1	EAD	3.3	1.00	.10 (a)	9 ~ 26	Vert.	100µF (n)	X	X	—	—	—	—	-20 ~ 80 (b)	PT5103N-ND	12.25	11.03	9.78
2	EBA	3.3 (f)	1.00	.10 (a)	9 ~ 26	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6102A-ND	12.58	11.33	10.05
2	EBC	3.3 (f)	1.00	.10 (a)	9 ~ 26	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6102C-ND	12.58	11.33	10.05
2	EBD	3.3 (f)	1.00	.10 (a)	9 ~ 26	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6102N-ND	12.58	11.33	10.05
5	EFD	6.0	1.50	.10 (a)	10 ~ 38	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	PT78ST106V-ND	14.41	12.98	11.51
	EFA	3.3	1.50	.10 (a)	7 ~ 26	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	78ST133HC-ND	18.05	16.85	15.64
	EFC	3.3	1.50	.10 (a)	7 ~ 26	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	78ST133SC-ND	18.05	16.85	15.64
	EFD	3.3	1.50	.10 (a)	7 ~ 26	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	78ST133VC-ND	18.05	16.85	15.64
	EFA	3.3	1.50	.10 (a)	9 ~ 26	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	PT78ST133H-ND	14.41	12.98	11.51
5	EFC	3.3	1.50	.10 (a)	9 ~ 26	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	PT78ST133S-ND	14.41	12.98	11.51
	EFD	3.3	1.50	.10 (a)	9 ~ 26	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	PT78ST133V-ND	14.41	12.98	11.51
	EFA	3.3	2.00	.10 (a)	7 ~ 15	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 85 (b)	78HT233HC-ND	21.62	20.18	18.74
	EFD	3.3	2.00	.10 (a)	7 ~ 15	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 85 (b)	78HT233VC-ND	21.62	20.18	18.74
2	EBA	3.3	2.00	.10 (a)	7 ~ 26	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6203A-ND	17.66	16.48	15.31
2	EBD	3.3	2.00	.10 (a)	7 ~ 26	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6203N-ND	17.66	16.48	15.31
5	EFA	3.3	2.00	.10 (a)	9 ~ 15	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 85 (b)	PT78HT233H-ND	16.20	15.12	14.04
5	EFC	3.3	2.00	.10 (a)	9 ~ 15	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 ~ 85 (b)	PT78HT233S-ND	16.20	15.12	14.04
2	EBA	3.3	2.00	.10 (a)	9 ~ 26	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6213D-ND	15.90	14.84	13.78
2	EBC	3.3	2.00	.10 (a)	9 ~ 26	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6213E-ND	15.90	14.84	13.78
2	EBD	3.3	2.00	.10 (a)	9 ~ 26	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6213P-ND	15.90	14.84	13.78
3	ECA	3.3	3.00	.10 (a)	4.5 ~ 5.5	Horz.	2/100µF (n)	X	—	X	—	—	—	0 ~ 70 (b)	PT6405D-ND	23.40	21.84	20.28
3	ECC	3.3	3.00	.10 (a)	4.5 ~ 5.5	Horz. SMD	2/100µF (n)	X	—	X	—	—	—	0 ~ 70 (b)	PT6405E-ND	23.40	21.84	20.28
3	ECD	3.3	3.00	.10 (a)	4.5 ~ 5.5	Vert.	2/100µF (n)	X	—	X	—	—	—	0 ~ 70 (b)	PT6405P-ND	23.40	21.84	20.28
6	EFL	3.3	3.00	.10 (a)	4.5 ~ 5.5	Horz.	100µF (n)	—	X	X	Inhibit	—	—	-40 ~ 85 (b,d)	PT5501A-ND	18.05	16.85	15.64
6	EFM	3.3	3.00	.10 (a)	4.5 ~ 5.5	Horz. SMD	100µF (n)	—	X	X	Inhibit	—	—	-40 ~ 85 (b,d)	PT5501C-ND	18.05	16.85	15.64
6	EFK	3.3	3.00	.10 (a)	4.5 ~ 5.5	Vert.	100µF (n)	—	X	X	Inhibit	—	—	-40 ~ 85 (b,d)	PT5501N-ND	18.05	16.85	15.64
2	EBA	3.3	3.00	.10 (a)	9 ~ 26	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6303A-ND	17.85	16.66	15.47
2	EBC	3.3	3.00	.10 (a)	9 ~ 26	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6303C-ND	17.85	16.66	15.47
2	EBD	3.3	3.00	.10 (a)	9 ~ 26	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6303N-ND	17.85	16.66	15.47

* Power Good: Power good output is high when the output voltage is within specification

† Inhibit: Power to complete part is shut off, quiescent current is less than 100 µA. Stnby: Standby Mode: Part is powered up, but output is in shut off or sleep mode.

(Continued)

Additional drawings on the previous and following pages.

Fig. 4 Package Style EE(x) (14 Pin SIP)

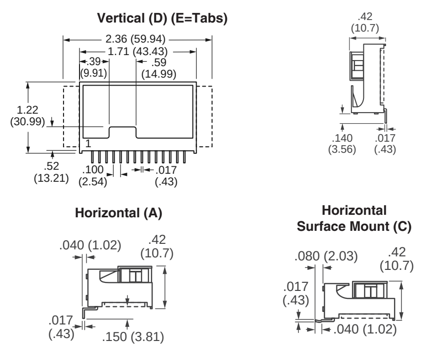

Fig. 5 Package Style EF(x)

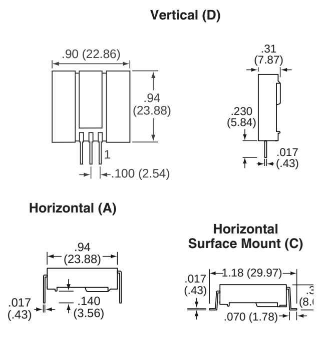

Fig. 6 Package Style EF(x) (5 Pin SIP)

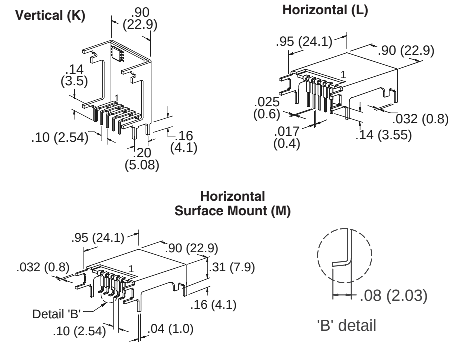

Fig.	Pkg. Style	DC Voltage Output (Vout)	Maximum Amp Output (Iout)	Minimum Amp Output (Iout)	DC Input Voltage Range (Vin)	Circuit Board Orientation	External Components Required*	Over-Temp Protection	Short Circuit Protection	Vout Adj.	On/Off Control†	Remote Sense	Fast Transient Response	Recommended Operating Temperature Range(°C)	Digi-Key Part No.	Price Each		
																1	25	100
Single Output ISR's (cont.)																		
2	EBC	3.3	3.00 (h)	.30	4.5 ~ 9	Horz. SMD	100µF (o)	X	X	X	—	—	—	0 ~ 70 (b)	PT6305C-ND	23.40	21.84	20.28
6	EED	3.3	5.00(e)	.10(a)	9 ~ 28	Vert.	560uF/IN(p), 330uF/OUT(o)	—	—	X	Stnby	X	—	-40 ~ 85(e)	PT6651P-ND	28.50	26.60	24.70
6	EFL	3.3	5.50-6.00 (m)	0.0	4.5 ~ 5.5	Horz.	100uF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (d)	PT5401A-ND	17.78	16.59	15.41
4	EEA	3.3	8.00	.10 (a)	4.5 ~ 5.5	Horz.	2/330µF (p)	—	X	X	Stnby	X	—	-40 ~ 85 (b,d)	PT6521D-ND	31.88	29.75	27.63
4	EED	3.3	8.00	.10 (a)	4.5 ~ 5.5	Vert.	2/330µF (p)	—	X	X	Stnby	X	—	-40 ~ 85 (b,d)	PT6521P-ND	31.88	29.75	27.63
4	EEA	3.3	7.00 – 9.00 (e)	.10 (a)	4.5 ~ 6	Horz.	2/330µF (p)	X	—	X	Stnby	X	—	-40 ~ 85 (d,e)	PT6601D-ND	29.21	27.26	25.32
4	EEC	3.3	7.00 – 9.00 (e)	.10 (a)	4.5 ~ 6	Horz. SMD	2/330µF (p)	X	—	X	Stnby	X	—	-40 ~ 85 (d,e)	PT6601E-ND	29.21	27.26	25.32
4	EED	3.3	7.00 – 9.00 (e)	.10 (a)	4.5 ~ 6	Vert.	2/330µF (p)	X	—	X	Stnby	X	—	-40 ~ 85 (d,e)	PT6601P-ND	29.21	27.26	25.32
2	EBA	5.0 (f)	1.00	.10 (a)	9 ~ 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b,f)	PT6101A-ND	12.58	11.33	10.05
2	EBC	5.0 (f)	1.00	.10 (a)	9 ~ 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6101C-ND	12.58	11.33	10.05
2	EBD	5.0 (f)	1.00	.10 (a)	9 ~ 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6101N-ND	12.58	11.33	10.05
1	EAA	5.0	1.00	.10 (a)	9 ~ 38	Horz.	100µF (n)	X	X	—	—	—	—	-20 ~ 80 (b)	PT5101A-ND	12.25	11.03	9.78
1	EAC	5.0	1.00	.10 (a)	9 ~ 38	Horz. SMD	100µF (n)	X	X	—	—	—	—	-20 ~ 80 (b)	PT5101C-ND	12.25	11.03	9.78
1	EAD	5.0	1.00	.10 (a)	9 ~ 38	Vert.	100µF (n)	X	X	—	—	—	—	-20 ~ 80 (b)	PT5101N-ND	12.25	11.03	9.78
5	EFA	5.0	1.50	.10 (a)	7 ~ 30	Horz.	None	X	X	—	—	—	—	-40 ~ 80 (b)	78SR105HC-ND	18.05	16.85	15.64
5	EFC	5.0	1.50	.10 (a)	7 ~ 30	Horz. SMD	None	X	X	—	—	—	—	-40 ~ 80 (b)	78SR105SC-ND	18.05	16.85	15.64
5	EFD	5.0	1.50	.10 (a)	7 ~ 30	Vert.	None	X	X	—	—	—	—	-40 ~ 80 (b)	78SR105VC-ND	18.05	16.85	15.64
5	EFA	5.0	1.50	.10 (a)	7 ~ 30	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	78ST105HC-ND	18.05	16.85	15.64
5	EFD	5.0	1.50	.10 (a)	7 ~ 30	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	78ST105VC-ND	18.05	16.85	15.64
5	EFA	5.0	1.50	.10 (a)	9 ~ 38	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	PT78ST105H-ND	14.41	12.98	11.51
5	EFC	5.0	1.50	.10 (a)	9 ~ 38	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	PT78ST105S-ND	14.41	12.98	11.51
5	EFD	5.0	1.50	.10 (a)	9 ~ 38	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	PT78ST105V-ND	14.41	12.98	11.51
5	EFA	5.0	2.00	.10 (a)	V_O 2 ~ 28	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 85 (b)	78HT205HC-ND	21.62	20.18	18.74
5	EFD	5.0	2.00	.10 (a)	V_O 2 ~ 28	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 85 (b)	78HT205VC-ND	21.62	20.18	18.74
2	EBA	5.0	2.00	.10 (a)	7.25 ~ 30	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 60 (b)	PT6202A-ND	17.66	16.48	15.31
2	EBD	5.0	2.00	.10 (a)	7.25 ~ 30	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 60 (b)	PT6202N-ND	17.66	16.48	15.31
5	EFA	5.0	2.00	.10 (a)	8 ~ 20	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 85 (b)	78ST205HC-ND	21.62	20.18	18.74
5	EFD	5.0	2.00	.10 (a)	8 ~ 20	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 85 (b)	78ST205VC-ND	21.62	20.18	18.74
5	EFA	5.0	2.00	.10 (a)	9 ~ 28	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 85 (b)	PT78HT205H-ND	16.20	15.12	14.04
5	EFC	5.0	2.00	.10 (a)	9 ~ 28	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 ~ 85 (b)	PT78HT205S-ND	16.20	15.12	14.04
5	EFD	5.0	2.00	.10 (a)	9 ~ 28	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 85 (b)	PT78HT205V-ND	16.20	15.12	14.04
2	EBA	5.0	2.00	.10 (a)	9 ~ 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6212D-ND	15.90	14.84	13.78
2	EBC	5.0	2.00	.10 (a)	9 ~ 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6212E-ND	15.90	14.84	13.78
2	EBD	5.0	2.00	.10 (a)	9 ~ 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6212P-ND	15.90	14.84	13.78
7	EFH (q)	5.0	3.00	.10 (a)	8 ~ 20	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 70 (b)	78ST305HC-ND	26.40	24.64	22.88
7	EFF (q)	5.0	3.00	.10 (a)	8 ~ 20	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 70 (b)	78ST305VC-ND	26.40	24.64	22.88
7	EFH (q)	5.0	3.00	.10 (a)	V_O 3 ~ 28	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 70 (b)	78HT305HC-ND	26.40	24.64	22.88
7	EFF (q)	5.0	3.00	.10 (a)	V_O 3 ~ 28	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 70 (b)	78HT305VC-ND	26.40	24.64	22.88
2	EBA	5.0	3.00	.10 (a)	9 ~ 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6302A-ND	17.85	16.66	15.47
2	EBC	5.0	3.00	.10 (a)	9 ~ 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6302C-ND	17.85	16.66	15.47
2	EBD	5.0	3.00	.10 (a)	9 ~ 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6302N-ND	17.85	16.66	15.47
4	EEA	5.0	5.00 (e)	.10 (a)	9 ~ 28	Horz.	560µF/IN, 330µF/OUT (p)	—	—	X	Stnby	X	—	-40 ~ 85	PT6653D-ND	28.50	26.60	24.70
4	EEC	5.0	5.00 (e)	.10 (a)	9 ~ 28	Horz. SMD	560µF/IN, 330µF/OUT (p)	—	—	X	Stnby	X	—	-40 ~ 85	PT6653E-ND	28.50	26.60	24.70
4	EED	5.0	5.00 (e)	.10 (a)	9 ~ 28	Vert.	560µF/IN, 330µF/OUT (p)	—	—	X	Stnby	X	—	-40 ~ 85	PT6653P-ND	28.50	26.60	24.70
14	EPA	5.0	5.00	0.10 (a)	18 ~ 36	Horz.	560uF/IN, 330uF/OUT (o)	—	—	X	Stnby	X	—	-40 ~ 85 (d)	PT6883A-ND	28.50	26.60	24.70
4	EEA	5.0	6.00	.10 (a)	9 ~ 16	Horz.	2/330µF (o)	X	—	X	Stnby	X	—	-40 ~ 85 (e)	PT6625D-ND	31.88	29.75	27.63
4	EEC	5.0	6.00	.10 (a)	9 ~ 16	Horz. SMD	2/330µF (o)	X	—	X	Stnby	X	—	-40 ~ 85 (e)	PT6625E-ND	31.88	29.75	27.63
4	EED	5.0	6.00	.10 (a)	9 ~ 16	Vert.	2/330µF (o)	X	—	X	Stnby	X	—	-40 ~ 85 (e)	PT6625P-ND	31.88	29.75	27.63
13	EPJ	5.0	6.00	0.10 (a)	10.8 ~ 13.2	Horz.	100uF/IN, 330uF/OUT (n)	—	X	X	Inhibit	—	—	-40 ~ 85 (d,e)	PT6341A-ND	27.15	25.34	23.53
5	EFA	6.0	1.50	.10 (a)	8 ~ 30	Horz.	None	X	X	—	—	—	—	-40 ~ 80 (b)	78SR106HC-ND	18.05	16.85	15.64
5	EFA	8.0	1.50	.10 (a)	10 ~ 30	Horz.	None	X	X	—	—	—	—	-40 ~ 80 (b)	78SR108HC-ND	18.05	16.85	15.64
5	EFA	9.0	1.50	.10 (a)	13 ~ 38	Horz.	100uF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	PT78ST109H-ND	14.41	12.98	11.51
1	EAA	12.0	1.00	.10 (a)	4.75 ~ V_O-1	Horz.	100µF (n)	X	—	—	—	—	—	-20 ~ 70 (e)	PT5041A-ND	15.83	14.25	12.64
1	EAC	12.0	1.00	.10 (a)	4.75 ~ V_O -1	Horz. SMD	100µF (n)	X	—	—	—	—	—	-20 ~ 70 (e)	PT5041C-ND	15.83	14.25	12.64
1	EAD	12.0	1.00	.10 (a)	4.75 ~ V_O -1	Vert.	100µF (n)	X	—	—	—	—	—	-20 ~ 70 (e)	PT5041N-ND	15.83	14.25	12.64
2	EBA	12.0 (f)	1.00	.10 (a)	16 ~ 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 80 (b)	PT6103A-ND	12.58	11.33	10.05
2	EBC	12.0 (f)	1.00	.10 (a)	16 ~ 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 80 (b)	PT6103C-ND	12.58	11.33	10.05
2	EBD	12.0 (f)	1.00	.10 (a)	16 ~ 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 80 (b)	PT6103N-ND	12.58	11.33	10.05
1	EAA	12.0	1.00	.10 (a)	16 ~ 38	Horz.	100µF (n)	X	X	—	—	—	—	-20 ~ 80 (b)	PT5102A-ND	12.25	11.03	9.78
1	EAC	12.0	1.00	.10 (a)	16 ~ 38	Horz. SMD	100µF (n)	X	X	—	—	—	—	-20 ~ 80 (b)	PT5102C-ND	12.25	11.03	9.78
1	EAD	12.0	1.00	.10 (a)	16 ~ 38	Vert.	100µF (n)	X	X	—	—	—	—	-20 ~ 80 (b)	PT5102N-ND	12.25	11.03	9.78
12	EMF	12.0	1.50	.10(a)	7 ~ 16	Horz.	100uF/IN, 100uF/OUT (n)	—	—	X/(UVLO)	Stnby	—	—	-40 ~ 85 (d,e)	PT5071A-ND	31.80	29.68	27.56
5	EFA	12.0	1.50	.10 (a)	16 ~ 38	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	PT78ST112H-ND	14.41	12.98	11.51
5	EFC	12.0	1.50	.10 (a)	16 ~ 38	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	PT78ST112S-ND	14.41	12.98	11.51
5	EFD	12.0	1.50	.10 (a)	16 ~ 38	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	PT78ST112V-ND	14.41	12.98	11.51
5	EFA	12.0	1.50	.10 (a)	14.5 ~ 30	Horz.	None	X	X	—	—	—	—	-40 ~ 80 (b)	78SR112HC-ND	18.05	16.85	15.64

* Power Good: Power good output is high when the output voltage is within specification

† Inhibit: Power to complete part is shut off, quiescent current is less than 100 µA. Standby: Standby Mode: Part is powered up, but output is in shut off or sleep mode.

(Continued)

Additional drawings on the previous and following pages.

Fig. 7 Package Style EF(x)

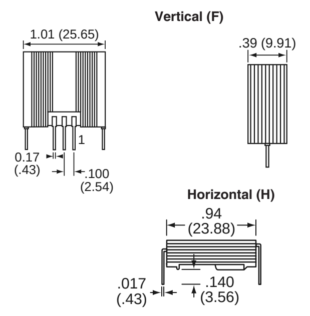

Fig. 8 Package Style EL(x) (23 Pin SIP)

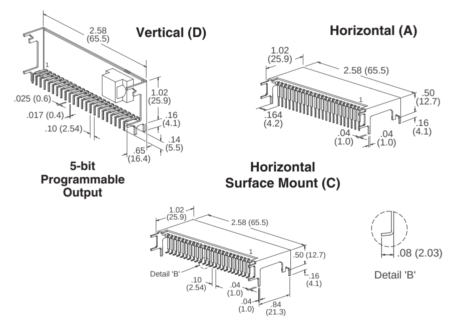

Fig. 9 Package Style EL(x) (23 Pin SIP)

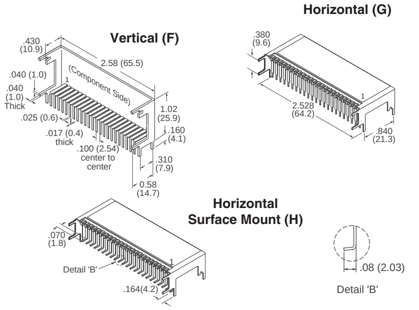

Fig. 10 Package Style EN(x) (27 Pins)

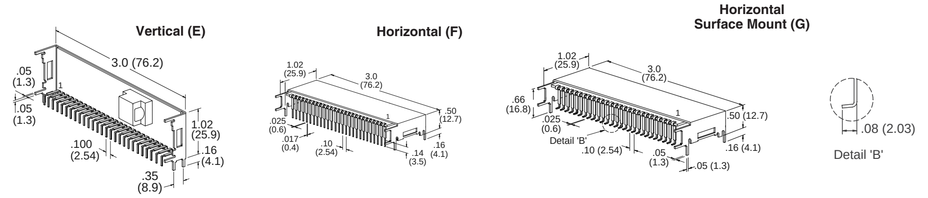

Fig. 11 Package Style EK(x) (31 Pin SIP)

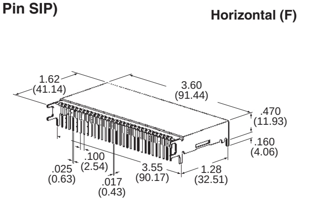

Fig.	Pkg. Style	DC Voltage Output (Vout)	Maximum Amp Output (Iout)	Minimum Amp Output (Iout)	DC Input Voltage Range (Vin)	Circuit Board Orientation	External Components Required*	Over-Temp Pro-tection	Short Circuit Pro-tection	Vout Adj.	On/Off Control†	Remote Sense	Fast Transient Response	Recommended Operating Temperature Range (°C)	Digi-Key Part No.	Price Each 1	25	100
Single Output ISR's (cont.)																		
5	EFC	12.0	1.50	.10 (a)	14.5 ~ 30	Horz. SMD	None	X	X	—	—	—	—	-40 ~ 80 (b)	78SR112SC-ND	18.05	16.85	15.64
5	EFD	12.0	1.50	.10 (a)	14.5 ~ 30	Vert.	None	X	X	—	—	—	—	-40 ~ 80 (b)	78SR112VC-ND	18.05	16.85	15.64
5	EFA	12.0	1.50	.10 (a)	14.5 ~ 30	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	78ST112HC-ND	18.05	16.85	15.64
5	EFC	12.0	1.50	.10 (a)	14.5 ~ 30	Horz. SMD	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	78ST112SC-ND	18.05	16.85	15.64
5	EFD	12.0	1.50	.10 (a)	14.5 ~ 30	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 80 (b)	78ST112VC-ND	18.05	16.85	15.64
4	EEA	12.0	2.00	.10 (a)	4.5 ~ 5.5	Horz.	2/560µF (o)	—	—	X	—	X	—	-40 ~ 65 (m)	PT6674D-ND	28.50	26.60	24.70
7	EFH	12.0	2.00	.10 (a)	14.5 ~ 28	Horz.	100µF (n)	X	X	—	—	—	X	-40 ~ 55 (b)	78ST212HC-ND	27.80	25.95	24.09
7	EFF	12.0	2.00	.10 (a)	14.5 ~ 28	Vert.	100µF (n)	X	X	—	—	—	X	-40 ~ 55 (b)	78ST212VC-ND	27.80	25.95	24.09
2	EBA	12.0	2.00	.10 (a)	14.5 ~ 30	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 60 (b)	PT6204A-ND	17.66	16.48	15.31
2	EBD	12.0	2.00	.10 (a)	14.5 ~ 30	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 60 (b)	PT6204N-ND	17.66	16.48	15.31
7	EFF (q)	12.0	2.00	.10 (a)	16 ~ 28	Vert.	100µF (n)	X	X	—	—	—	—	-40 ~ 55 (b)	PT78ST212V-ND	24.45	22.82	21.19
2	EBA	12.0	2.00	.10 (a)	16 ~ 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6214D-ND	15.90	14.84	13.78
2	EBC	12.0	2.00	.10 (a)	16 ~ 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6214E-ND	15.90	14.84	13.78
2	EBD	12.0	2.00	.10 (a)	16 ~ 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6214P-ND	15.90	14.84	13.78
2	EBA	12.0	3.00	.10 (a)	16 ~ 30/38 (c)	Horz.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6304A-ND	17.85	16.66	15.47
2	EBC	12.0	3.00	.10 (a)	16 ~ 30/38 (c)	Horz. SMD	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6304C-ND	17.85	16.66	15.47
2	EBD	12.0	3.00	.10 (a)	16 ~ 30/38 (c)	Vert.	100µF (n)	X	X	X	Inhibit	—	—	-40 ~ 85 (b)	PT6304N-ND	17.85	16.66	15.47
4	EEA	12.0	5.00 (e)	.10 (a)	V_O3 ~ 28	Horz.	560µF/IN, 330µF/OUT (p)	—	—	X	Stnby	X	—	-40 ~ 85 (e)	PT6656D-ND	28.50	26.60	24.70
4	EED	12.0	5.00 (e)	.10 (a)	V_O3 ~ 28	Vert.	560µF/IN, 330µF/OUT (p)	—	—	X	Stnby	X	—	-40 ~ 85 (e)	PT6656P-ND	28.50	26.60	24.70
14	EPA	12.0	4.00	0.10 (a)	18 ~ 36	Horz.	560uF/IN, 330uF/OUT (o)	—	—	X	Stnby	X	—	-40 ~ 85 (d)	PT6886A-ND	28.50	26.60	24.70
14	EPC	12.0	4.00	0.10 (a)	18 ~ 36	Horz. SMD	560uF/IN, 330uF/OUT (o)	—	—	X	Stnby	X	—	-40 ~ 85 (d)	PT6886C-ND	28.50	26.60	24.70
1	EAA	15.0	0.75	.10 (a)	4.75 ~ V_O-1	Vert.	100uF (n)	X	—	—	—	—	—	-20 ~ 85 (e)	PT5042A-ND	15.83	14.25	12.64
5	EFA	15.0	1.50	.10 (a)	11 ~ 38	Horz.	100uF/OUT (n)	X	X	—	—	—	X	-40 ~ 80	PT78ST115H-ND	14.41	12.98	11.51
5	EFA	15.0	1.50	.10 (a)	18.5 ~ 30	Horz.	None	X	X	—	—	—	—	-40 ~ 80 (b)	78SR115HC-ND	18.05	16.85	15.64
5	EFD	15.0	1.50	.10 (a)	18.5 ~ 30	Vert.	None	X	X	—	—	—	—	-40 ~ 80 (b)	78SR115VC-ND	18.05	16.85	15.64
14	EPA	15.0	4.00	0.10 (a)	18 ~ 36	Horz.	560uF/IN, 330uF/OUT (o)	—	—	X	Stnby	X	—	-40 ~ 85 (d)	PT6885A-ND	28.50	26.60	24.70
1	EAA	20.0	0.50	.10 (a)	4.75 ~ 14	Vert.	100uF (n)	X	—	—	—	—	—	-20 ~ 85 (e)	PT5049A-ND	15.83	14.25	12.64
Negative Output ISR"S																		
5	EFA	-5.0	-1.00	-.05 (a)	7 ~ 25	Horz.	2/100µF (p)	X	X	—	—	—	X	-40 ~ 85 (b)	PT78NR105H-ND	14.41	12.98	11.51
5	EFC	-5.0	-1.00	-.05 (a)	7 ~ 25	Horz. SMD	2/100µF (p)	X	X	—	—	—	X	-40 ~ 85 (b)	PT78NR105S-ND	14.41	12.98	11.51
5	EFD	-5.0	-1.00	-.05 (a)	7 ~ 25	Vert.	2/100µF (p)	X	X	—	—	—	X	-40 ~ 85 (b)	PT78NR105V-ND	14.41	12.98	11.51
1	EAA	-5.0	-1.00	-.25 (a)	4.75 ~ 7 (j)	Horz.	100µF (n)	—	—	—	—	—	—	-20 ~ 65 (e)	PT5022A-ND	15.83	14.25	12.64
1	EAC	-5.0	-1.00	-.25 (a)	4.75 ~ 7 (j)	Horz. SMD	100µF (n)	—	—	—	—	—	—	-20 ~ 65 (e)	PT5022C-ND	15.83	14.25	12.64
1	EAD	-5.0	-1.00	-.25 (a)	4.75 ~ 7 (j)	Vert.	100µF (n)	—	—	—	—	—	—	-20 ~ 65 (e)	PT5022N-ND	15.83	14.25	12.64
5	EFA	-5.0	-1.50	-.10 (a)	-9 ~ -30	Horz.	1N5339B	X	X	—	—	—	—	-40 ~ 60 (b)	PT79SR105H-ND	16.10	15.03	13.95
5	EFC	-5.0	-1.50	-.10 (a)	-9 ~ -30	Horz. SMD	1N5339B	X	X	—	—	—	—	-40 ~ 60 (b)	PT79SR105S-ND	16.95	15.82	14.69
5	EFD	-5.0	-1.50	-.10 (a)	-9 ~ -30	Vert.	1N5339B	X	X	—	—	—	—	-40 ~ 60 (b)	PT79SR105V-ND	16.20	15.12	14.04
4	EEA	-5.0	-4.00	-.10	8 ~ 25	Horz.	560µF/IN, 330µF/OUT (o)	—	—	X	—	X	—	-40 ~ 85 (e)	PT6642D-ND	28.50	26.60	24.70
4	EED	-5.0	-4.00	-.10	8 ~ 25	Vert.	560µF/IN, 330µF/OUT (o)	—	—	X	—	X	—	-40 ~ 85 (e)	PT6642P-ND	28.50	26.60	24.70
5	EFA	-12.0	-0.40	-.05 (a)	7 ~ 18	Horz.	2/100µF (p)	X	X	—	—	—	X	-40 ~ 85 (b)	PT78NR112H-ND	14.41	12.98	11.51
5	EFC	-12.0	-0.40	-.05 (a)	7 ~ 18	Horz. SMD	2/100µF (p)	X	X	—	—	—	X	-40 ~ 85 (b)	PT78NR112S-ND	14.41	12.98	11.51
5	EFD	-12.0	-0.40	-.05 (a)	7 ~ 18	Vert.	2/100µF (p)	X	X	—	—	—	X	-40 ~ 85 (b)	PT78NR112V-ND	14.41	12.98	11.51
1	EAA	-12.0	-0.50	-.10 (a)	4.75 ~ 7 (j)	Horz.	100µF (n)	—	—	—	—	—	—	-20 ~ 65 (e)	PT5024A-ND	15.83	14.25	12.64
1	EAC	-12.0	-0.50	-.10 (a)	4.75 ~ 7 (j)	Horz. SMD	100µF (n)	—	—	—	—	—	—	-20 ~ 65 (e)	PT5024C-ND	15.83	14.25	12.64
1	EAD	-12.0	-0.50	-.10 (a)	4.75 ~ 7 (j)	Vert.	100µF (n)	—	—	—	—	—	—	-20 ~ 65 (e)	PT5024N-ND	15.83	14.25	12.64
5	EFA	-12.0	-1.50	-.10 (a)	-16 ~ -30	Horz.	1N5351B	X	X	—	—	—	—	-40 ~ 60 (b)	PT79SR112H-ND	16.95	15.82	14.69
5	EFD	-12.0	-1.50	-.10 (a)	-16 ~ -30	Vert.	1N5351B	X	X	—	—	—	—	-40 ~ 60 (b)	PT79SR112V-ND	16.20	15.12	14.04
4	EED	-12.0	-2.00	-.10	8 ~ 18	Vert.	560µF/IN, 330µF/OUT (o)	—	—	X	—	X	—	-40 ~ 85 (e)	PT6643P-ND	28.50	26.60	24.70

* Power Good: Power good output is high when the output voltage is within specification

† Inhibit: Power to complete part is shut off, quiescent current is less than 100 µA. Standby: Standby Mode: Part is powered up, but output is in shut off or sleep mode.

(Continued)

Integrated Switching Regulators *(Cont.)*

Additional drawings on the previous pages.

Fig. 12 Package Style EM(x) (14 Pin SIP)

Horizontal (F)

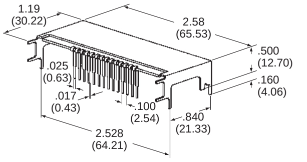

Fig. 13 Package Style EP(x) (12 Pin SIP)

Horizontal (J)

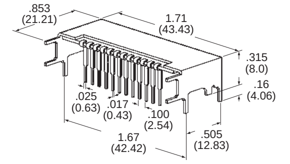

Fig. 14 Package Style EP(x) (18 Pin SIP)

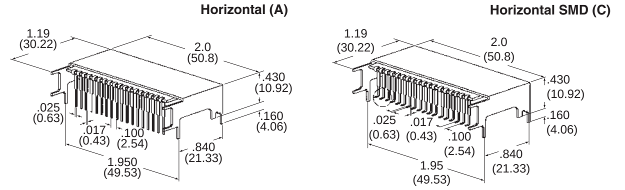
Horizontal (A)

Horizontal SMD (C)

Fig.	Pkg. Style	DC Voltage Output (Vout) Vo 1	DC Voltage Output (Vout) Vo 2	Maximum Amp Output (Iout) Vo 1	Maximum Amp Output (Iout) Vo 2	Minimum Amp Output (Iout)	DC Input Voltage Range (Vin)	Circuit Board Orientation	External Components Required	Over-Temp Protection	Short Circuit Protection	VoutAdj	On/Off Control	Remote Sense	Recommended Operating Temp. Range (°C)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
									Dual Output ISR"S										
9	ELH	3.3	1.5/1.2 (i)	6.00	1.45/1.20 (m)	0.10 (a,k)	4.5 ~ 5.5	Horz. SMD	2/330uF (p)	X	—	2 (m)	STNBY	2	-40 ~ 85 (d,e)	PT6932C-ND	39.38	36.75	34.13
	ELG	3.3	1.8/1.2 (i)	6.00	1.75/1.20 (m)	0.10 (a,k)	4.5 ~ 5.5	Horz.	2/330uF (o)	X	—	X (v)	STNBY	2	-40 ~ 85 (d,e)	PT6931A-ND	39.38	36.75	34.13
	ELF	3.3	2.5/1.8 (i)	6.00	2.20/1.75 (m)	0.10 (a,k)	4.5 ~ 5.5	Vert.	2/330uF (p)	X	—	2 (m)	STNBY	2	-40 ~ 85 (d,e)	PT6931C-ND	39.38	36.75	34.13
3	ECA	+12.0	-12.0	+0.50	-0.25	.05(g)	4.75 ~ +Vo -1	Horz.	100uF (n)	X	—	X	—	—	0 ~ 65 (e)	PT5061A-ND	16.20	15.12	14.04
	ECC	+12.0	-12.0	+0.50	-0.25	.05(g)	4.75 ~ +Vo -1	Horz. SMD	100uF (n)	X	—	X	—	—	0 ~ 65 (e)	PT5061C-ND	16.20	15.12	14.04
	ECD	+12.0	-12.0	+0.50	-0.25	.05(g)	4.75 ~ +Vo -1	Vert.	100uF (n)	X	—	X	—	—	0 ~ 65 (e)	PT5061N-ND	16.20	15.12	14.04
	ECA	+15.0	-15.0	+0.40	-0.20	0.05(u)	4.75 ~ +Vo -1	Horz.	100uF (n)	—	—	X	—	—	0 ~ 85	PT5062A-ND	16.20	15.12	14.04

* Power Good: Power good output is high when the output voltage is within specification

† Inhibit: Power to complete part is shut off, quiescent current is less than 100 µA. Stnby: Standby Mode: Part is powered up, but output is in shut off or sleep mode.

(a) ISR will operate down to no load with reduced specification.
(b) See thermal derating chart.
(c) Input voltage cannot exceed 30V when the inhibit function is used.
(d) Operating temperatures below 0 (0°C), use tantalum capacitors.
(e) See manufacturer's safe operating area curves for appropriate derating.
(f) Carries standards and safety approvals — see manufacturer's data sheet.
(g) Do not operate below minimum load.
(h) PT6305 series can easily be paralleled to provide output current in multiples of 3 Amps. Please contact Texas Instrument/Plug In Power Solutions for application note.
(i) With pin 23 open, V2out = First voltage shown is on the output. With pin 23 shorted to pin 22, V2out = Second voltage shown in chart.
(j) For applications with input voltages greater than 7VDC, Use the PT78NR100 series.
(k) Io min. current of .10A can be divided between both outputs, V1 or V2.
(l) This series can be paralleled with a current booster slave to increase output currents in specific increments — see manufacturer's data sheet.
(m) Please refer to manufacturer's data sheet for further explanation of ratings.
(n) An electrolytic or tantalum capacitor on the output is required for proper operation.
(o) Only use an electrolytic capacitor for proper operation.
(p) Please use Panasonic low ESR, FC series capacitors for proper operation — see manufacturer's data sheet.
(q) Heat sink or tab orientation - see manufacturer's data sheet.
(r) Remote sense ground not used, pin 12 must be connected to pin 13 for optimum output voltage accuracy.
(s) Has an (OVP) over voltage protection drive output.
(t) Processor compatible voltage output adjustment — see manufacturer's data sheet.
(u) Do NOT operate the negative output rail of this ISR below the minimum load.
(v) Vo 1 and Vo2 Adjust can be pin-strapped to an alternative lower bus voltage. Consult the voltage adjustment application note information.

Isolated DC-DC Converters

Fig. 1 Package Style EG(x)

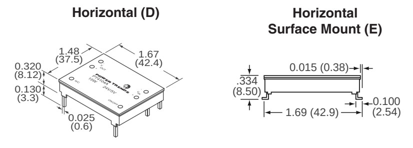
Horizontal (D)

Horizontal Surface Mount (E)

Fig. 2 Package Style EN(x) (19 Pin SIP)

Horizontal (A)

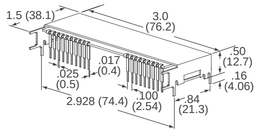

Fig. 3 Package Style EP(x) (10 Pin SIP)

Horizontal (F)

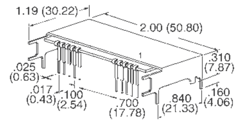

Fig. 4 Package Style EG(x) (9 Pin)

Horizontal (K)

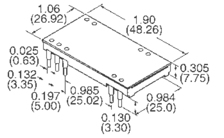

These isolated DC-DC converters are state-of-the-art in board-mounted converters, employing high frequency technology with surface mount construction to form high efficiency with un-paralleled flexibility. They are designed for Telecom, Industrial, Computer, Medical, and other distributed power applications that require input-to-output isolation. Very few external components required and in some cases no external components required to make these converters perform, this makes design-in a snap even while saving valuable board space using TI/Plug In Power Solutions patent pending package designs.

Safety Agency Approvals:

• **PT4120/4140 Series:** UL1950 Recognized, CSA 22.2 950 Certified, EN60950 Approved • **PT4240 Series:** UL 60950, CSA 22.2 60950 • **PT4310 Series:** Safety Approvals Pending • **PT4580 Series:** UL 60950 Recognized, CSA 22.2 950 Certified, EN60950 Approved, VDE Licensed, meets FCC Class A Radiated Limits • **PT4840 Series:** UL 60950, CSA 22.2 950, VDE EN60950

Part No. Series	Voltage Adjust	Remote On/Off	Over-Current Limit	Over-Temp Protection	Under-voltage Lockout	Short-Circuit Protection	Over-Voltage Protection
PT4120 Series	X	X	—	X	X	X	—
PT4140 Series	X	X	—	X	X	X	—
PT4240 Series	X	X	X	—	X	X	—

Part No. Series	Voltage Adjust	Remote On/Off	Over-Current Limit	Over-Temp Protection	Under-voltage Lockout	Short-Circuit Protection	Over-Voltage Protection
PT4310 Series	X	X	—	—	—	—	—
PT4580 Series	X	X	X	X	X	X	—
PT4840 Series	X	X	X	X	X	X	—

Fig.	Package Style	DC Vout Vo 1	DC Vout Vo 2	DC Vout Vo 3	Maximum Amp Output (Iout)	Minimum Amp Output (Iout)	DC Input Bus Voltage Vin	DC Input Voltage Range (Vin)	Circuit Board Orientation	Operating Temperature Range (b)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
							Single Output DC-DC Converters							
1	EGD	3.3	—	—	5.00	0.00	24	18 ~ 40	Horizontal	-40°C ~ 85°C	PT4141A-ND	48.68	45.43	42.19
3	EPF	5.0	—	—	2.00	.10(d)	24	18 ~ 36	Horizontal	-40°C ~ 85°C (a)	PT4243A-ND	40.35	37.66	34.97
1	EGD	5.0	—	—	4.00	0.00	24	18 ~ 40	Horizontal	-40°C ~ 85°C	PT4142A-ND	48.68	45.43	42.19
1	EGD	5.0	—	—	4.00	0.00	24	18 ~ 40	Horizontal SMD	-40°C ~ 85°C	PT4142C-ND	48.68	45.43	42.19
1	EGE	5.0	—	—	4.00	0.00	48	36 ~ 75	Horizontal	-40°C ~ 85°C	PT4122A-ND	48.68	45.43	42.19
2	ENA	5.0(c)	—	—	6.00	.25(d)	24	18 ~ 60	Horizontal	-40°C ~ 85°C (a)	PT4582A-ND	57.83	53.97	50.12
1	EGD	12.0	—	—	1.60	0.00	24	18 ~ 40	Horizontal	-40°C ~ 85°C	PT4143A-ND	48.68	45.43	42.19
1	EGE	12.0	—	—	1.60	0.00	48	36 ~ 75	Horizontal	-40°C ~ 85°C	PT4123A-ND	48.68	45.43	42.19
							Dual Output DC-DC Converters							
4	EGK	+5.0	-5.0	—	1.00	.20(e)	48	38 ~ 75	Horizontal	-40°C ~ 85°C (a)	PT4311A-ND	28.13	26.25	24.38

(a) Operating temperatures below 0 (0°C), use tantalum capacitors **(b)** See safe operating area curves for appropriate derating **(c)** An electrolytic or tantalum capacitor is required for proper operation **(d)** DC/DC converter will operate at no load with reduced specifications **(e)** DC/DC converter will operate at no load with reduced specifications

Fig. 1

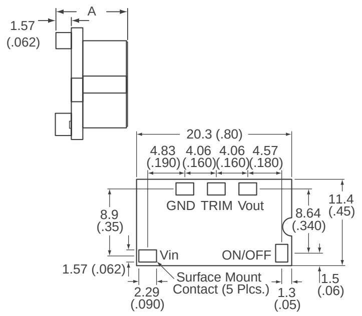

Fig. 2

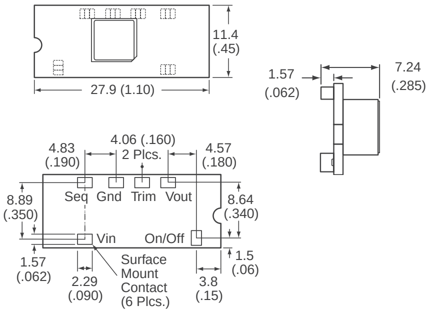

Fig. 3

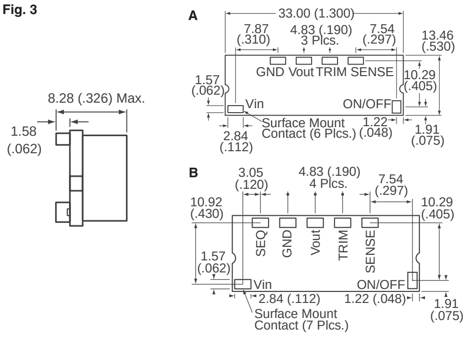

Fig. 4

Pin	Function
1	VOut
2	Trim
3	GND
4	VIN
5	On/Off

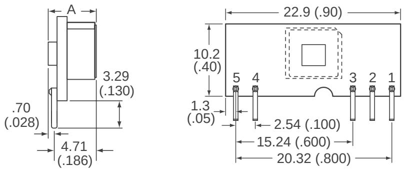

Fig. 5

Pin	Function
1	V0
2	Trim
3	GND
A	Sequence
4	VIN
5	On/Off

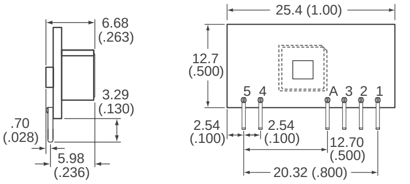

SMT Series

Fig.	V Out	I Out (A)	Input Volt. (V)	On/Off Logic	Remote Sense	Dim. A mm (Inch)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel Pricing*	Tyco Electronics Part No.
1	0.75-3.3	3	2.4-5.5	Negative	—	7.27 (.286)	555-1053-1-ND	7.14	6.30	5.63	1971.00/400	AXH003A0X-SRZ
	0.75-3.3	3	2.4-5.5	Positive	—	7.27 (.286	555-1054-1-ND	7.26	6.41	5.73	2003.40/400	AXH003A0X4-SRZ
	0.75-3.63	5	3.0-5.5	Negative	—	5.97 (.235)	555-1059-1-ND	12.10	10.40	9.00	3982.50/500	AXH005A0X-SRZ
	0.75-5.0	5	10-14	Negative	—	5.97 (.235)	555-1057-1-ND	12.10	10.40	9.00	3186.00/400	AXA005A0X-SRZ
	0.75-5.0	3	8.3-14	Negative	—	7.27 (.286)	555-1049-1-ND	7.58	6.68	5.95	2079.00/400	AXA003A0X-SRZ
	0.75-5.0	3	8.3-14	Positive	—	7.27 (.286)	555-1050-1-ND	7.70	6.78	6.04	2111.40/400	AXA003A0X4-SRZ
2	0.75-3.3	6	2.4-5.5	Negative	—	—	555-1073-1-ND	13.80	11.60	9.50	3402.00/400	ATH006A0X-SRZ
	0.75-3.3	6	2.4-5.5	Positive	—	—	555-1074-1-ND	13.80	11.60	9.50	3402.00/400	ATH006A0X4-SRZ
	0.75-5.0	6	8.3-14	Negative	—	—	555-1069-1-ND	13.80	11.60	9.50	3402.00/400	ATA006A0X-SRZ
	0.75-5.0	6	8.3-14	Positive	—	—	555-1070-1-ND	13.80	11.60	9.50	3402.00/400	ATA006A0X4-SRZ
3A	0.75-3.3	10	3.0-5.5	Negative	Yes	—	555-1063-1-ND	15.80	13.90	12.20	2902.50/250	AXH010A0X3-SRZ
	0.75-3.63	16	3.0-5.5	Negative	Yes	—	555-1067-1-ND	18.40	16.30	14.60	3442.50/250	AXH016A0X3-SRZ
	0.75-5.0	10	10-14	Negative	Yes	—	555-1061-1-ND	15.80	13.90	12.20	2902.50/250	AXA010A0X3-SRZ
	0.75-5.0	16	10-14	Negative	Yes	—	555-1065-1-ND	18.40	16.30	14.60	3442.50/250	AXA016A0X3-SRZ
3B	0.75-3.3	10	2.4-5.5	Negative	Yes	—	555-1081-1-ND	16.90	14.80	12.90	3071.25/250	ATH010A0X3-SRZ
	0.75-3.3	10	2.4-5.5	Positive	Yes	—	555-1082-1-ND	16.90	14.80	12.90	3071.25/250	ATH010A0X43-SRZ
	0.75-3.3	16	2.4-5.5	Negative	Yes	—	555-1089-1-ND	19.90	17.50	15.60	3645.00/250	ATH016A0X3-SRZ
	0.75-3.3	16	2.4-5.5	Positive	Yes	—	555-1090-1-ND	19.90	17.50	15.60	3645.00/250	ATH016A0X43-SRZ
	0.75-5.0	10	8.3-14	Negative	Yes	—	555-1077-1-ND	16.90	14.80	12.90	3071.25/250	ATA010A0X3-SRZ
	0.75-5.0	10	8.3-14	Positive	Yes	—	555-1078-1-ND	16.90	14.80	12.90	3071.25/250	ATA010A0X43-SRZ
	0.75-5.0	16	8.3-14	Negative	Yes	—	555-1085-1-ND	19.90	17.50	15.60	3645.00/250	ATA016A0X3-SRZ
	0.75-5.0	16	8.3-14	Positive	Yes	—	555-1086-1-ND	19.90	17.50	15.60	3645.00/250	ATA016A0X43-SRZ

* For Tape and Reel part number, change 1-ND to 2-ND

SIP Series

Fig.	V Out	I Out (A)	Input Volt. (V)	On/Off Logic	Remote Sense	Dim. A mm (Inch)	Digi-Key Part No.	Price Each 1	10	100	Tyco Electronics Part No.
4	0.75-3.3	3	2.4-5.5	Negative	—	6.63 (.261)	555-1055-ND	7.14	6.30	5.63	AXH003A0XZ
	0.75-3.3	3	2.4-5.5	Positive	—	6.63 (.261)	555-1056-ND	7.26	6.40	5.72	AXH003A0X4Z
	0.75-3.63	5	3.0-5.5	Negative	—	5.41 (.213)	555-1060-ND	12.10	10.40	9.00	AXH005A0XZ
	0.75-5.0	3	8.3-14	Negative	—	6.63 (.261)	555-1051-ND	7.58	6.68	5.95	AXA003A0XZ
	0.75-5.0	3	8.3-14	Positive	—	6.63 (.261)	555-1052-ND	7.70	6.78	6.04	AXA003A0X4Z
	0.75-5.0	5	10-14	Negative	—	5.41 (.213)	555-1058-ND	12.10	10.40	9.00	AXA005A0XZ
5	0.75-3.3	6	2.4-5.5	Negative	—	—	555-1075-ND	13.80	11.60	9.50	ATH006A0XZ
	0.75-3.3	6	2.4-5.5	Positive	—	—	555-1076-ND	13.80	11.60	9.50	ATH006A0X4Z
	0.75-5.0	6	8.3-14	Negative	—	—	555-1071-ND	13.80	11.60	9.50	ATA006A0XZ
	0.75-5.0	6	8.3-14	Positive	—	—	555-1072-ND	13.80	11.60	9.50	ATA006A0X4Z
6A	0.75-3.3	10	3.0-5.5	Negative	Yes	—	555-1064-ND	15.80	13.90	12.20	AXH010A0X3Z
	0.75-3.63	16	3.0-5.5	Negative	Yes	—	555-1068-ND	18.40	16.30	14.60	AXH016A0X3Z
	0.75-5.0	10	10-14	Negative	Yes	—	555-1062-ND	15.80	13.90	12.20	AXA010A0X3Z
	0.75-5.0	16	10-14	Negative	Yes	—	555-1066-ND	18.40	16.30	14.60	AXA016A0X3Z
6B	0.75-3.3	10	2.4-5.5	Negative	Yes	—	555-1083-ND	16.90	14.80	12.90	ATH010A0X3Z
	0.75-3.3	10	2.4-5.5	Positive	Yes	—	555-1084-ND	16.90	14.80	12.90	ATH010A0X43Z
	0.75-3.3	16	2.4-5.5	Negative	Yes	—	555-1091-ND	19.90	17.50	15.60	ATH016A0X3Z
	0.75-3.3	16	2.4-5.5	Positive	Yes	—	555-1092-ND	19.90	17.50	15.60	ATH016A0X43Z
	0.75-5.0	10	8.3-14	Negative	Yes	—	555-1079-ND	16.90	14.80	12.90	ATA010A0X3Z
	0.75-5.0	10	8.3-14	Positive	Yes	—	555-1080-ND	16.90	14.80	12.90	ATA010A0X43Z
	0.75-5.0	16	8.3-14	Negative	Yes	—	555-1087-ND	19.90	17.50	15.60	ATA016A0X3Z
	0.75-5.0	16	8.3-14	Positive	Yes	—	555-1088-ND	19.90	17.50	15.60	ATA016A0X43Z
7	0.8-3.63	25	4.5-5.5	Negative	Yes	—	555-1093-ND	26.35	23.25	20.54	ATH025A0X3Z
	0.8-5.0	25	6.0-14	Negative	Yes	—	555-1095-ND	23.46	20.70	18.29	ATS025A0X3Z
	0.8-3.63	30	4.5-5.5	Negative	Yes	—	555-1094-ND	23.46	20.70	18.29	ATH030A0X3Z
	0.8-3.63	30	4.5-5.5	Negative	Yes	—	555-1096-ND	25.35	22.48	19.97	ATH030A0X3-PZ
	0.8-5.0	25	6.0-14	Negative	Yes	—	555-1097-ND	25.35	22.48	19.97	ATS025A0X3-PZ

Fig. 6

Pin	Function
1	V0
2	V0
3	V0 Sense
4	V0
5	GND
6	GND
7	V_{IN}
8	V_{IN}
B	Sequence
9	TRIM
10	ON/OFF

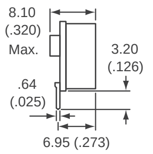

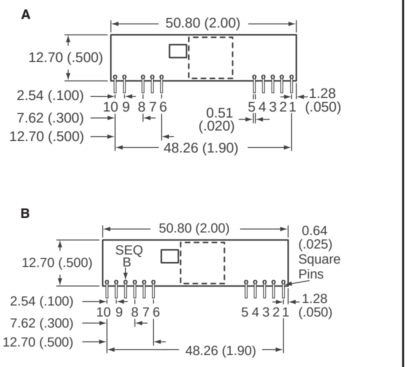

Fig. 7

Pin	Function
1	V0
2	V0
3	Sense
4	V0
5	GND
6	GND*
7	Share
8	GND
9	V_{IN}
10	V_{IN}
11	SEQ
12	Trim
13	On/OFF

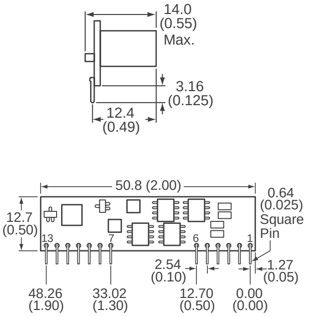

* Pin 6 is added in ATH030A0X3Z version.
Note: ATH025A0X3-PZ and ATH030A0X3-PZ have extra GND and Share Pin.

Fig. 1

ATH06 Series — 33W Single Output:
- Operating Temperature: -40°C ~ 85°C • Point-of-Load Alliance product
- Non Isolated • SMT

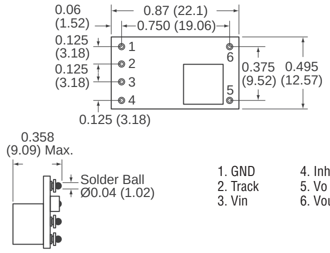

1. GND
2. Track
3. Vin
4. Inhibit
5. Vo Adjust
6. Vout

Fig. 2

ATH10 Series — 55W Single Output:
- Operating Temperature: -40°C ~ 85°C • Point-of-Load Alliance product
- Non Isolated • SMT

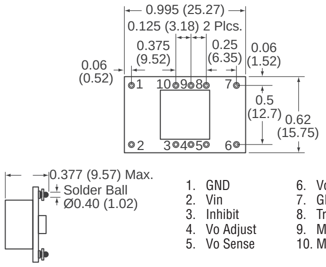

1. GND
2. Vin
3. Inhibit
4. Vo Adjust
5. Vo Sense
6. Vout
7. GND
8. Track
9. Margin Down
10. Margin Up

Fig. 3

ATH15 Series — 66W Single Output:
- Operating Temperature: -40°C ~ 85°C • Point-of-Load Alliance product
- Non Isolated • SMT

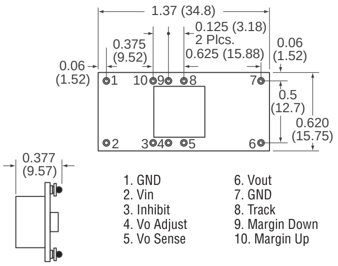

1. GND
2. Vin
3. Inhibit
4. Vo Adjust
5. Vo Sense
6. Vout
7. GND
8. Track
9. Margin Down
10. Margin Up

Fig. 4

ALO25 Series — 66W Single Output:
- Operating Temperature: -40°C ~ 85°C • 1/8 Brick • Negative Logic • No Load Reg.

ALO40 Series — 120W Single Output:
- Operating Temperature: -40°C ~ 85°C • 1/8 Brick • Negative Logic • No Load Reg.

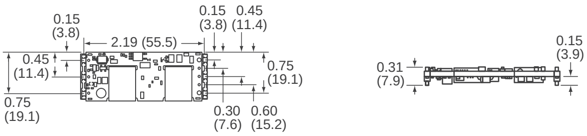

1. +Vin
2. ENABLE (On/Off)
3. -Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

Fig. 5

AEO25 Series — 66W Single Output: • Operating Temperature: -40°C ~ 85°C • 1/8 Brick • Negative Logic

AEO40 Series — 120W Single Output: • Operating Temperature: -40°C ~ 85°C • 1/8 Brick • Negative Logic

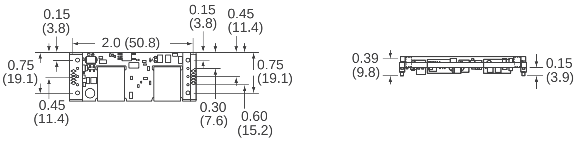

1. +Vin
2. ENABLE (On/Off)
3. -Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

Fig. 6

ATH22 Series — 99W Single Output:
- Operating Temperature: -40°C ~ 85°C • Point-of-Load Alliance product • Non Isolated • SMT

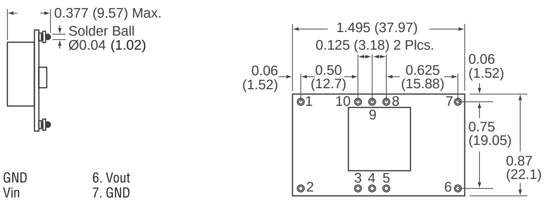

1. GND
2. Vin
3. Inhibit
4. Vo Adjust
5. Vo Sense
6. Vout
7. GND
8. Track
9. Margin Down
10. Margin Up

Fig. 7

ATH30 Series — 143W Single Output:
- Operating Temperature: -40°C ~ 85°C • Point-of-Load Alliance product • Non Isolated • SMT

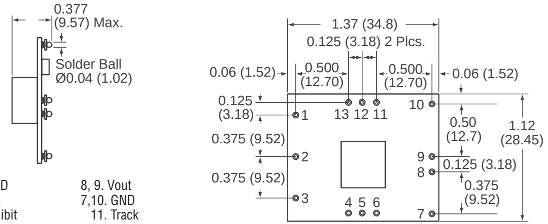

1, 3. GND
2. Vin
4. Inhibit
5. Vo Adjust
6. Vo Sense
8, 9. Vout
7,10. GND
11. Track
12. Margin Down
13. Margin Up

Fig.	V Out	I Out	V In Range	Digi-Key Part No.	Price Each	Astec Part No.
ATH06 Series — Single Output, POLA						
1	0.8-2.5V	6A	3-3.6V	454-1107-ND	16.92	ATH06T033-9SJ
	0.8-3.6V	6A	4.5-5.5V	454-1108-ND	12.00	ATH06T05-9SJ
	1.2-5.5V	6A	10.8-13.2V	454-1109-ND	12.00	ATH06K12-9SJ
ATH10 Series — Single Output, POLA						
2	0.8-2.5V	10A	3-3.6V	454-1110-ND	19.72	ATH10T033-9SJ
	1.2-5.5V	10A	10.8-13.2V	454-1112-ND	19.72	ATH10K12-9SJ
ATH15 Series — Single Output, POLA						
3	1.2-5.5V	12A	10.8-13.2V	454-1113-ND	24.70	ATH12K12-9SJ
	0.8-2.5V	15A	3-3.6V	454-1114-ND	24.70	ATH15T033-9SJ
	0.8-3.6V	15A	4.5-5.5V	454-1115-ND	24.70	ATH15T05-9SJ
NEW! ALO25 Series — Open Frame/ Low Profile, Single Output NEW!						
4	12V	4A	36-75V	454-1172-ND	79.55	ALO04B48N
	5V	12A	36-75V	454-1173-ND	50.51	ALO12A48N
	3.3V	20A	36-75V	454-1174-ND	50.51	ALO20F48N
	1.8V	25A	36-75V	454-1175-ND	79.55	ALO25Y48N
	1.5V	25A	36-75V	454-1176-ND	79.55	ALO25M48N
	1.2V	25A	36-75V	454-1177-ND	79.55	ALO25K48N
NEW! ALO40 Series — Open Frame/ Low Profile, Single Output NEW!						
4	12V	10A	36-75V	454-1178-ND	96.20	ALO10B48N
	5V	20A	36-75V	454-1179-ND	58.28	ALO20A48N
	3.3V	30A	36-75V	454-1180-ND	58.28	ALO30F48N
	1.8V	40A	36-75V	454-1181-ND	96.20	ALO40Y48N

Fig.	V Out	I Out	V In Range	Digi-Key Part No.	Price Each	Astec Part No.
4	1.5V	40A	36-75V	454-1182-ND	96.20	ALO40M48N
	1.2V	40A	36-75V	454-1183-ND	96.20	ALO40K48N
NEW! AEO25 Series — Baseplate Construction, Single Output NEW!						
5	12V	4A	36-75V	454-1184-ND	85.10	AEO04B48N
	5V	12A	36-75V	454-1185-ND	85.10	AEO12A48N
	3.3V	20A	36-75V	454-1186-ND	85.10	AEO20F48N
	1.8V	25A	36-75V	454-1187-ND	85.10	AEO25Y48N
	1.5V	25A	36-75V	454-1188-ND	85.10	AEO25M48N
	1.2V	25A	36-75V	454-1189-ND	85.10	AEO25K48N
NEW! AEO40 Series — Baseplate Construction, Single Output NEW!						
5	12V	10A	36-75V	454-1190-ND	101.75	AEO10B48N
	5V	20A	36-75V	454-1191-ND	101.75	AEO20A48N
	3.3V	30A	36-75V	454-1192-ND	101.75	AEO30F48N
	1.8V	40A	36-75V	454-1193-ND	101.75	AEO40Y48N
	1.5V	40A	36-75V	454-1194-ND	101.75	AEO40M48N
	1.2V	40A	36-75V	454-1195-ND	101.75	AEO40K48N
ATH22 Series — Single Output, POLA						
6	1.2-5.5V	18A	10.8-13.2V	454-1116-ND	32.88	ATH18K12-9SJ
	0.8-2.5V	22A	3-3.6V	454-1117-ND	32.88	ATH22T033-9SJ
	0.8-3.6V	22A	4.5-5.5V	454-1118-ND	25.00	ATH22T05-9SJ
ATH30 Series — Single Output, POLA						
7	1.2-5.5V	26A	10.8-13.2V	454-1119-ND	42.57	ATH26K12-9SJ
	0.8-2.5V	30A	3-3.6V	454-1120-ND	42.57	ATH30T033-9SJ
	0.8-3.6V	30A	4.5-5.5V	454-1121-ND	42.57	ATH30T05-9SJ

Switching AC-DC Power Supplies

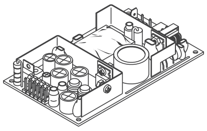

Astec's LP Series of low power switches offer outstanding performance, price and reliability as well as the latest in high technology performance. These switchers range from 25 ~ 350W of power and come in a wide variety of configurations. Available as a single or multiple output with many different output voltage combinations, these compact models are ideally suited to a wide variety of applications in telecommunications, computers, computer peripheral, test and industrial equipment, medical instrumentation and business machines.

Single Outputs

Total Power Watts	Output 1	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Astec Part No.
				Housing Input	Housing Output	Contacts		1	10	25	50	
LPS40 Series — Single Outputs												
40-50	5V @ 8A	0A	5.0 x 3.0 x 1.14 (127.0 x 76.2 x 29.0)	WM2123	WM2126	WM2313	454-1073-ND	46.25	38.75	36.25	35.00	LPS42
	12V @ 3.3A	0A					454-1070-ND	46.25	38.75	36.25	35.00	LPS43
	24V @ 1.6A	0A					454-1071-ND	46.25	38.75	36.25	35.00	LPS45
	48V @ 0.9A	0A					454-1072-ND	46.25	38.75	36.25	35.00	LPS48
NEW! LPS50 Series — Single Outputs NEW!												
55	5V @ 11A	0A	4.0 x 2.0 x 1.30 (101.60 x 50.80 x 33.0)	WM2123	WM2126	WM2313	454-1161-ND	49.95	41.85	39.15	37.80	LPS52
60	12V @ 5A	0A					454-1162-ND	49.95	41.85	39.15	37.80	LPS53
60	15V @ 4A	0A					454-1163-ND	49.95	41.85	39.15	37.80	LPS54
60	24V @ 2.5A	0A					454-1164-ND	49.95	41.85	39.15	37.80	LPS55
60	48V @ 1.25A	0A					454-1165-ND	49.95	41.85	39.15	37.80	LPS58
NEW! LPS60 Series — Single Outputs NEW!												
60	15V @ 4A	0A	5.0 x 3.0 x 1.65 (127.0 x 76.2 x 41.9)	WM2123	WM2126	WM2313	454-1196-ND	60.98	51.09	47.80	46.15	LPS64
	24V @ 2.5A	0A					454-1197-ND	60.98	51.09	47.80	46.15	LPS65
	48V @ 1.3A	0A					454-1198-ND	60.98	51.09	47.80	46.15	LPS68
NEW! LPS250 Series — Single Outputs NEW!												
250	5V @ 50A	1.50A	9.0 x 5.0 x 2.0 (228.6 x 127.0 x 50.8)	—	—	—	454-1204-ND	265.33	232.17	219.73	211.44	LPS252-C
	5V @ 50A	1.50A					454-1205-ND	511.50	275.43	260.67	250.84	LPS252-CEF
	5V @ 50A	1.50A					454-1206-ND	298.93	261.57	247.55	238.21	LPS252-CF
	12V @ 21A	0.63A					454-1207-ND	265.33	232.17	219.73	211.44	LPS253-C
	12V @ 21A	0.63A					454-1208-ND	315.09	275.71	260.94	251.09	LPS253-CEF
	12V @ 21A	0.63A					454-1209-ND	298.29	261.01	247.02	237.70	LPS253-CF
	15V @ 16.7A	0.50A					454-1210-ND	265.33	232.17	219.73	211.44	LPS254-C
	15V @ 16.7A	0.50A					454-1211-ND	315.09	275.71	260.94	251.09	LPS254-CEF
	15V @ 16.7A	0.50A					454-1212-ND	298.93	261.57	247.55	238.21	LPS254-CF
	24V @ 10.4A	0.32A					454-1213-ND	265.33	232.17	219.73	211.44	LPS255-C
	24V @ 10.4A	0.32A					454-1214-ND	314.77	275.43	260.67	250.84	LPS255-CEF
	24V @ 10.4A	0.32A					454-1215-ND	298.29	261.01	247.02	237.70	LPS255-CF
Connector Kit for LPS250 Series							454-1241-ND	6.94	5.44	5.16	4.99	70-841-005
NEW! LPS350 Series — Single Outputs NEW!												
350	5V @ 70A	0A	9.0 x 5.0 x 2.5 (228.6 x 127.0 x 63.5)	—	—	—	454-1220-ND	351.23	305.91	294.58	283.25	LPS352-C
	5V @ 70A	0A					454-1221-ND	383.16	333.72	321.36	309.00	LPS352-CEF
	5V @ 70A	0A					454-1222-ND	383.16	333.72	321.36	309.00	LPS352-CF
	12V @ 29.2A	0A					454-1223-ND	351.23	305.91	294.58	283.25	LPS353-C
	12V @ 29.2A	0A					454-1224-ND	383.16	333.72	321.36	309.00	LPS353-CEF
	12V @ 29.2A	0A					454-1225-ND	383.16	333.72	321.36	309.00	LPS353-CF
	15V @ 23.3A	0A					454-1226-ND	351.23	305.91	294.58	283.25	LPS354-C
	15V @ 23.3A	0A					454-1227-ND	383.16	333.72	321.36	309.00	LPS354-CEF
	15V @ 23.3A	0A					454-1228-ND	383.16	333.72	321.36	309.00	LPS354-CF
	24V @ 14.6A	0A					454-1229-ND	351.23	305.91	294.58	283.25	LPS355-C
	24V @ 14.6A	0A					454-1230-ND	383.16	333.72	321.36	309.00	LPS355-CEF
	24V @ 14.6A	0A					454-1231-ND	383.16	333.72	321.36	309.00	LPS355-CF
Connector Kit for LPS350 Series							454-1242-ND	6.94	5.44	5.16	4.99	70-841-011
NEW! NTS350 Series — Single Outputs NEW!												
350	12V @ 16.6A	0A	7.0 x 4.0 x 1.5 (177.8 x 101.6 x 38.1)	WM2123	WM8037	WM2313	454-1168-ND	356.50	310.50	299.00	287.50	NTS353
	12V @ 29.2A	0A					454-1169-ND	379.75	330.75	318.50	306.25	NTS353-CF
	48V @ 4.2A	0A					454-1170-ND	356.50	310.50	299.00	287.50	NTS358
	48V @ 7.3A	0A					454-1171-ND	379.75	330.75	318.50	306.25	NTS358-CF

Note: *The -CF suffix added to the manufacture part number indicates cover with top fan, add 1.0" to height. The -CEF suffix added to the manufacture part number indicates cover with dual end fan cover and AC inlet, add 1.32" to length.*

Multiple Outputs

Total Power Watts	V1 Min/Max A	V2 Min/Max A	V3 Min/Max A	V4 Min/Max A	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Astec Part No.
						Housing Input	Housing Output	Contacts		1	10	25	50	
LPT25 Series — Triple Outputs														
25-40	5V @ 0.3A/3A	12V @ 0.1A/1.5A	-12V @ 0A/0.5A	—	5.0 x 3.0 x 1.14 (127.0 x 76.2 x 29.0)	WM2123	WM2126	WM2313	454-1078-ND	40.70	34.10	31.90	30.80	LPT22
	5V @ 0.3A/3A	12V @ 0.1A/1.5A	-5V @ 0A/0.5A	—					454-1079-ND	44.40	37.20	34.80	33.60	LPT24
LPT40 Series — Triple Outputs														
40-50	3.3V @ 0.5A/4A	5V @ 0A/1.5A	12V @ 0A/0.5A	—	5.0 x 3.0 x 1.14 (127.0 x 76.2 x 29.0)	WM2123	WM2126	WM2313	454-1077-ND	55.50	46.50	43.50	42.00	LPT41
	5V @ 0.4A/4A	12V @ 0.2A/2A	-12V @ 0A/ 0.5A	—					454-1075-ND	42.55	35.65	33.35	32.20	LPT42
	5V @ 0.5A/6A	12V @ 0A/0.5A	-12V @ 0A/ 0.5A	—					454-1076-ND	48.10	40.30	37.70	36.40	LPT43
	5V @ 0.4A/4A	12V @ 0.2A/2A	-5V @ 0A/ 0.5A	—					454-1080-ND	48.10	40.30	37.70	36.40	LPT44
	5V @ 0.4A/4A	15V @ 0.2A/2A	-15V @ 0A/ 0.5A	—					454-1081-ND	48.10	40.30	37.70	36.40	LPT45
	5V @ 0.4A/4A	24V @ 0.2A/1A	-12V @ 0A/ 0.5A	—					454-1074-ND	48.10	40.30	37.70	36.40	LPT47
NEW! LPT60 Series — Triple Outputs NEW!														
60	3.3V @ 0.7A/5A	5V @ 0A/2.5A	12V @ 0A/0.5A	—	5.0 x 3.0 x 1.65 (127.0 x 76.2 x 41.9)	WM2123	WM2104	WM2313	454-1199-ND	72.41	60.67	56.76	54.80	LPT61
	5V @ 0.7A/7A	12V @ 0.3A/3A	-12V @ 0A/0.7A	—					454-1200-ND	55.26	46.30	43.32	41.82	LPT62
	5V @ 0.7A/7A	15V @ 0.3A/2.8A	-15V @ 0A/0.7A	—					454-1201-ND	64.79	54.29	50.78	49.03	LPT63
	5V @ 0.7A/7A	12V @ 0.3A/3A	-5V @ 0A/0.7A	—					454-1202-ND	64.79	54.29	50.78	49.03	LPT64
	5V @ 0.7A/7A	24V @ 0.1A/1.5A	12V @ 0A/0.7A	—					454-1203-ND	64.79	54.29	50.78	49.03	LPT65
NEW! NTQ160 Series — Quad Outputs NEW!														
50-165	3.3V @ 2A/15A	5V @ 0A/10A	12V @ 0A/2A	12V @ 0A/2A	8.5 x 4.25 x 1.5 (216.0 x 108.0 x 38.1)	—	—	—	454-1238-ND	223.31	191.80	184.95	174.68	NTQ162
	5V @ 2A/15A	3.3V @ 0A/10A	12V @ 0A/2A	12V @ 0A/2A					454-1239-ND	223.31	191.80	184.95	174.68	NTQ163
	3.3V @ 2A/15A	2.5V @ 0A/10A	5V @ 0A/2A	12V @ 0A/2A					454-1240-ND	223.31	191.80	184.95	174.68	NTQ165
Connector Kit for NTQ160 Series									454-1243-ND	6.94	5.44	5.16	4.99	70-841-014

Note: *The -CF suffix added to the manufacture part number indicates cover with top fan, add 1.0" to height. The -CEF suffix added to the manufacture part number indicates cover with dual end fan cover and AC inlet, add 1.32" to length.* (Continued)

Switching AC-DC Power Supplies Multiple Outputs *(Cont.)*

Total Power Watts	V1 Min/Max A	V2 Min/Max A	V3 Min/Max A	V4 Min/Max A	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Astec Part No.
						Housing Input	Housing Output	Contacts		1	10	25	50	
NEW! NTQ123 Series — Quad Outputs NEW!														
70-120	3.3V @ 0A/14A	5V @ 2A/12.5A	12V @ 0A/1A	-12V @ 0A/0.5A	7.0x4.0x1.5 (177.8x101.6x38.1)	WM2125	A25834	WM2313	454-1237-ND	163.35	141.08	136.13	131.18	NTQ123
NEW! AA20140 Series — Quad Outputs NEW!														
70	3.3V @ 0A/8A	5V @ 1A/10A	12V @ 0.2A/1A	-12V @ 0A/0.5A	6.5x3.75x1.6 (165.1x95.25x40.64)	WM2123	WM21362	WM2313	454-1236-ND	136.00	114.00	110.00	106.00	AA20140
NEW! LPT80 Series — Triple Outputs NEW!														
55	3.3V @ 0.7A/8A	5V @ 0.3A/4A	12V @ 0A/0.7A	—	5.0 x 3.0 x 1.29 (127.0 x 76.2 x 32.8)	WM2123	WM8037	WM2313	454-1166-ND	99.90	83.70	78.30	75.60	LPT81
60	5V @ 0.7A/8A	12V @ 0.3A/3A	-12V @ 0A/0.7A	—					454-1167-ND	99.90	83.70	78.30	75.60	LPT82
LPQ250 Series — Quad Outputs														
250	5V @ 3A/35A	12V @ 0A/10A	-12V @ 0A/6A	±5-25V@0A/6A	9.0 x 5.0 x 2.0 (228.6 x 127.0 x 50.8)	—	—	—	454-1084-ND	280.98	244.73	232.95	226.60	LPQ252-C
	5V @ 3A/35A	12V @ 0A/10A	-12V @ 0A/6A	±5-25V@0A/6A					454-1216-ND ***NEW!***	328.88	291.75	275.84	270.53	LPQ252-CEF
	5V @ 3A/35A	12V @ 0A/10A	-12V @ 0A/6A	±5-25V@0A/6A					454-1082-ND	312.91	272.54	259.42	252.35	LPQ252-CF
	5V @ 3A/35A	15V @ 0A/10A	-15V @ 0A/6A	±5-25V@0A/6A					454-1217-ND ***NEW!***	290.05	253.80	240.20	231.14	LPQ253-C
	5V @ 3A/35A	15V @ 0A/10A	-15V @ 0A/6A	±5-25V@0A/6A					454-1218-ND ***NEW!***	328.88	291.75	275.84	265.23	LPQ253-CEF
	5V @ 3A/35A	15V @ 0A/10A	-15V @ 0A/6A	±5-25V@0A/6A					454-1219-ND ***NEW!***	312.91	277.59	262.45	252.35	LPQ253-CF
Connector Kit for LPQ250 Series									454-1241-ND ***NEW!***	6.94	5.44	5.16	4.99	70-841-005
LPQ350 Series — Quad Outputs														
350	5V @ 5A/50A	12V @ 0A/12A	-12V @ 0A/6A	3.3-24V@1A/6A	9.0 x 5.0 x 2.5 (228.6 x 127.0 x 63.5)	—	—	—	454-1085-ND	383.16	333.72	317.66	309.00	LPQ352-C
	5V @ 5A/50A	12V @ 0A/12A	-12V @ 0A/6A	3.3-24V@1A/6A					454-1232-ND ***NEW!***	409.73	361.53	348.14	334.75	LPQ352-CEF
	5V @ 5A/50A	12V @ 0A/12A	-12V @ 0A/6A	3.3-24V@1A/6A					454-1083-ND	415.09	361.53	344.13	334.75	LPQ352-CF
	5V @ 5A/50A	15V @ 0A/12A	-15V @ 0A/6A	3.3-24V@1A/6A					454-1233-ND ***NEW!***	383.16	333.72	321.36	309.00	LPQ353-C
	5V @ 5A/50A	15V @ 0A/12A	-15V @ 0A/6A	3.3-24V@1A/6A					454-1234-ND ***NEW!***	409.73	361.53	348.14	334.75	LPQ353-CEF
	5V @ 5A/50A	15V @ 0A/12A	-15V @ 0A/6A	3.3-24V@1A/6A					454-1235-ND ***NEW!***	409.73	361.53	348.14	334.75	LPQ353-CF
Connector Kit for LPQ350 Series									454-1242-ND ***NEW!***	6.94	5.44	5.16	4.99	70-841-011

Note: *The -CF suffix added to the manufacture part number indicates cover with top fan, add 1.0" to height. The -CEF suffix added to the manufacture part number indicates cover with dual end fan cover and AC inlet, add 1.32" to length.*

TRIAD MAGNETICS

NEW! Universal Input Switch Mode AC/DC Power Supply

ALS Series:

The ALS Series provides a DC output power in a cost-effective open frame package. Excellent performance specifications are provided, together with compliance to European EMC (EN55022, Class A), and Low Voltage directive (TUV EN60950). Built to comply with EMI, EFT, ESD and Surge Standards.

Features: • Over Current Protection: Shutdown, O.C.P Point >120%, recycle AC supply to recover • Over Voltage Protection: >105% Zener across output • Short Circuit Protection: Unit shutdown, recycle AC supply to recover **Specifications:** • Input Voltage: 110/120VAC (90-260VAC, 120-370VDC) • Input Frequency Range: 47-63Hz • Line Regulation: 1.0% • Load Regulation: 2.0% • Adjustable Output Voltage Range: ±10% • Operating Temperature: Convection cooling 0°C ~ 50°C: 100%; 60°C: 70% • Cooling: Convection cooling **Warranty:** 2 years @ 40°C, 100% Load **Safety Standards:** • UL1950 (E204980) • TUV EN60950 (50070245) • Built to meet CSA 22.2 • Dielectric Strength: I/P-O/P: 3kVAC, I/P-FG: 2.5kVAC, <10mA, 1 minute • Isolation Resistance: O/P-FG: 500VDC >100MΩ

ALS Series

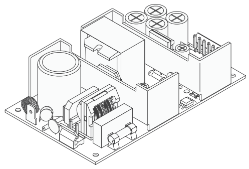

AWSP Series

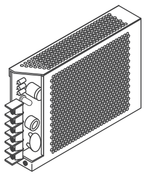

AWSP Series:

The AWSP Series power supply is designed for a wide variety of applications where high reliability is desired, including applications for the industrial and telecommunications markets. Excellent performance specifications are provided, together with compliance to European EMC (EN55022, Class B and EN61000-3-2), and Low Voltage directive (TUV EN60950). Built to comply with EMI, EFT, ESD and Surge Standards.

Features: • Over Current Protection: At Load >120% 115/230VAC, auto recovery • Over Voltage Protection: Zener clamping at Vo>110%, non auto recovery • Short Circuit Protection: Short circuit protection available. Avoid short circuit >30 seconds. **Specifications:** • Input Voltage: 85-264VAC • Input Frequency Range: 47-63Hz • Line Regulation: ±0.5% • Load Regulation: ±1.0% •Adjustable Output Range: ±10% • Operating Temperature: -10°C ~ 60°C • Cooling: Natural Convection **Warranty:** 2 years **Safety Standards:** • UL60950 (UL File No: E204980) • TUV EN60950 (TUV No: 50058679) • Dielectric Strength: I/P-O/P: 3kVAC; I/P-FG: 2.5kVAC; O/P-FG: 0.5kVAC 1 minute • Isolation Resistance: I/P-O/P, I/P-FG, O/P-FG: 500VDC/100MΩ

ALS Series (Open Frame)

Wattage	Output Voltage	Output Current (A)	Dimensions Inch (mm) L x W x H	Mating Connections			Digi-Key Part No.	Price Each				Triad Part No.
				Housing Input	Housing Output	Contacts		1	10	25	50	
50	3.3	9.1	5.0 x 3.0 x 1.42 (127.0 x 76.2 x 35.6)	WM2101-ND	WM2104-ND	WM2300-ND	237-1289-ND	25.44	21.63	20.36	19.47	ALS50-3.3
	5.0	9.0		WM2101-ND	WM2104-ND	WM2300-ND	237-1290-ND	25.44	21.63	20.36	19.47	ALS50-5
	12.0	4.2		WM2101-ND	WM2104-ND	WM2300-ND	237-1291-ND	25.44	21.63	20.36	19.47	ALS50-12
	24.0	2.1		WM2101-ND	WM2104-ND	WM2300-ND	237-1292-ND	25.44	21.63	20.36	19.47	ALS50-24
75	3.3	12.0	5.0 x 3.0 x 1.65 (127.0 x 76.2 x 42.0)	WM2101-ND	WM2104-ND	WM2300-ND	237-1293-ND	28.61	24.32	22.88	21.88	ALS75-3.3
	5.0	12.0		WM2101-ND	WM2104-ND	WM2300-ND	237-1294-ND	28.61	24.32	22.88	21.88	ALS75-5
	12.0	6.2		WM2101-ND	WM2104-ND	WM2300-ND	237-1295-ND	28.61	24.32	22.88	21.88	ALS75-12
	24.0	3.1		WM2101-ND	WM2104-ND	WM2300-ND	237-1296-ND	28.61	24.32	22.88	21.88	ALS75-24

AWSP Series (Enclosed Frame)

Wattage	Output Voltage	Output Current (A)	Dimensions Inch (mm) L x W x H	Digi-Key Part No.	Price Each				Triad Part No.
					1	10	25	50	
40	5.0	7.6	5.08 x 3.86 x 1.50 (129.0 x 98.0 x 38.0)	237-1297-ND	23.70	20.15	19.64	18.14	AWSP40-5
	12.0	3.3		237-1298-ND	23.70	20.15	19.64	18.14	AWSP40-12
	24.0	1.7		237-1299-ND	23.70	20.15	19.64	18.14	AWSP40-24
60	5.0	12.0	6.30 x 3.86 x 1.50 (160.0 x 98.0 x 38.0)	237-1300-ND	30.07	25.56	24.05	23.00	AWSP60-5
	12.0	5.0		237-1301-ND	30.07	25.56	24.05	23.00	AWSP60-12
	24.0	2.5		237-1302-ND	30.07	25.56	24.05	23.00	AWSP60-24
100	5.0	20.0	7.80 x 3.86 x 1.65 (198.0 x 98.0 x 42.0)	237-1303-ND	58.37	49.61	46.69	44.65	AWSP100-5
	12.0	8.4		237-1304-ND	58.37	49.61	46.69	44.65	AWSP100-12
	24.0	4.2		237-1305-ND	58.37	49.61	46.69	44.65	AWSP100-24
150	5.0	30.0	7.83 x 3.86 x 1.97 (199.0 x 98.0 x 50.0)	237-1306-ND	61.47	52.25	49.17	47.02	AWSP150-5
	12.0	12.5		237-1307-ND	61.47	52.25	49.17	47.02	AWSP150-12
	24.0	6.3		237-1308-ND	61.47	52.25	49.17	47.02	AWSP150-24

Medical Single Output – GXM60 Series

Features: • Universal Input • Medically approved to UL2601-1, CSA 22.2 No. 601.1-M90, EN60601-1, and CB certified to IEC601-1 • 2 year warranty **Specifications: AC Input:** 90-264VAC, 47-63Hz single phase. Input power is less than 75W when output power is less than 60W, 230VAC in. Meets EN61000-3-2 harmonics standard. **Minimum Load:** No minimum load required. **EMI / EMC Compliance:** All models include built-in EMI filtering. • **Conducted Emissions:** EN55011, Class B; FCC Class B • **Static Discharge:** EN61000-4-2, 6kV contact 8kV air • **RF Field Susceptibility:** EN61000-4-3, 3V/meter • **Fast Transients / Bursts:** EN61000-4-4, 2kV, 5kHz • **Surge Susceptibility:** EN61000-4-5, 1kV diff., 2kV com • **Conducted RF Susceptibility:** EN61000-4-6, 3V • **Voltage Sags & Surges:** EN61000-4-11

Medical Safety Agency: All models are approved to UL2601, CSA 22.2 No. 601.1-M90, IEC 601-1 (1988), EN 60601-1

Note: Ships without the power cord (Suggested Cord: Q132-ND).

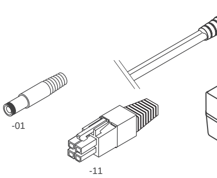

Total Power Watts	Output 1	Dimensions L x W x H Inch (mm)	Output Plug	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
60	5V @ 11A	5.34 x 3.05 x 1.8 (135.64 x 77.47 x 45.72)	Molex Mini-Fit	271-2221-ND	109.21	103.75	98.29	92.83	GXM60-5A11
	12V @ 5.0A		2.1 mm Barrel	271-2222-ND	109.21	103.75	98.29	92.83	GXM60-12A01
	24V @ 2.5A		2.1 mm Barrel	271-2224-ND	109.21	103.75	98.29	92.83	GXM60-24A01
	28V @ 2.2A		2.1 mm Barrel	271-2225-ND	109.21	103.75	98.29	92.83	GXM60-28A01

Medical Global Switchers

FEATURES:

• Wide range input (85-264V) • Approval to IEC601-1, UL2601 and CSA 601.1 (GNT30 Series approved to EN60601-1) • Conducted Emissions to FCC and VDC Class B • 2-Year Warranty • Models from 28-225W **Input Protection:** Internal AC fuse provided on all units. This fuse only blows if a catastrophic failure occurs in the unit — it does not blow on overload or short circuit. AC input protected against line transients by metal oxide varistors on all medical units. **Output Noise and Ripple:** 0.5% RMS, 1% Pk-Pk maximum on all outputs (20MHz bandwidth on GSM7, GSM11 & GSM28 series. **Temperature Coefficient:** 0.03%/°C typical for all outputs.

GENERAL SPECIFICATIONS:

• **AC Input:** 85-264VAC, 47-63Hz single phase • **Safety Specifications:** All medical models are approved to UL544/UL2601, IEC601-1, CSA234L3, VDE0750 and CE9LVD • **Overload Protection:** Fully protected against short circuit and output overload. Short circuit protection is cycling type on Outputs #1 and#2; foldback type on Outputs #3 and #4. Recovery after fault is automatic. • **Temperature Rating:** 0°C ~ 50°C full rated load • **Minimum Load:** Single output units require no minimum load except for GSM28 (GSM28 = ±5%). Multiple output units: GPM40 = 0.4A, GPM55 = 0.7A, GPM80 = 1A. • **EMI Compliance:** All models include EMI filtering to meet or exceed conducted emissions of CISPR 11 Class B, VDE0871 Class B (FCC Class B, CISPR 11 Class B and EN5522 Class B for GSM7 & GSM28 Series) • **Voltage Adjustment:** Outputs adjustable ±5% minimum via built-in potentiometer (Factory set for GSM7, GSM11 & GSM28 Series) • **Remote Sense:** Provided as a standard feature on the +5V output of the GPM130 and on all single output units, GLD150, GLM65, GPFM250 single and primary output GPM130 • **Reverse Voltage Protection:** All outputs protected against inadvertent application of reverse voltage up to 1 times the rated current of the reversed output • GNT30 series is a small footprint

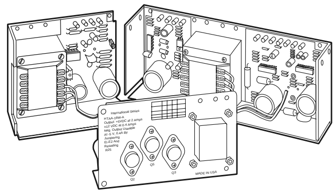

Single Output Medical

Total Power Watts	Output 1	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors					Digi-Key Part No.	Price Each				Condor Part No.
				Housing Input	Housing Output	Contacts	Signal Housing	Signal Contacts		1	10	25	50	
GSM Series														
7	5.0V @ 1.4A	—	2.00 x 2.28 x .50 (50.80 x 57.91 x 12.70)	—	—	—	—	—	271-1100-ND	31.90	30.31	28.72	27.12	GSM7-5
	12V @ .58A	—							271-1101-ND	31.90	30.31	28.72	27.12	GSM7-12
	15V @ .47A	—							271-1102-ND	31.90	30.31	28.72	27.12	GSM7-15
	28V @ .25A	—							271-1104-ND	31.90	30.31	28.72	27.12	GSM7-28
11	3.3v @ 2.2A	—	2.00 x 2.28 x .56 (50.80 x 57.91 x 14.22)	WM18874	WM18873	WM17406	—	—	271-2240-ND◊ ***NEW!***	31.90	30.31	28.72	27.12	GSM11-3AAG
	5.1V @ 2.2A	—							271-2241-ND◊ ***NEW!***	31.90	30.31	28.72	27.12	GSM11-5AAG
	12V @ .92A	—							271-2242-ND◊ ***NEW!***	31.90	30.31	28.72	27.12	GSM11-12AAG
	15v @ .73A	—							271-2243-ND◊ ***NEW!***	31.90	30.31	28.72	27.12	GSM11-15AAG
	24V @ .46A	—							271-2244-ND◊ ***NEW!***	31.90	30.31	28.72	27.12	GSM11-24AAG
	28V @ .39A	—							271-2245-ND◊ ***NEW!***	31.90	30.31	28.72	27.12	GSM11-28AAG
28	5.1V @ 5.5A	±5%	2.59 x 4.00 x .92 (65.79 x 101.60 x 23.37)	WM2125	WM2124	WM17403	—	—	271-1121-ND	56.78	53.95	51.11	48.27	GSM28-5
	12V @ 2.3A	±5%							271-1122-ND	56.78	53.95	51.11	48.27	GSM28-12
	24V @ 1.2A	±5%							271-1123-ND	56.78	53.95	51.11	48.27	GSM28-24
Chassis and Cover for GSM28 Series, 4.31" x 3.10" x 1.53" (109.47mm x 78.74mm x 38.86mm)									271-1128-ND	13.62	—	—	—	08-30466-0028
GNT30 Series														
30	5V @ 4.0A	—	1.97 x 3.15 x .98 (50.04 x 80.01 x 24.89)	A31018	A31019	A9982 (Tool)	—	—	271-2230-ND	59.28	58.09	56.93	50.10	GNT30-5
	12V @ 2.5A	—							271-2231-ND	61.65	60.42	59.21	52.11	GNT30-12
	15V @ 2.0A	—							271-2232-ND	61.65	60.42	59.21	52.11	GNT30-15
	24V @ 1.25A	—							271-2233-ND	61.65	60.42	59.21	52.11	GNT30-24
	28V @ 1.07A	—							271-2234-ND	59.28	58.09	56.93	50.10	GNT30-28
	48V @ 0.625A	—							271-2235-ND	59.28	58.09	56.93	50.10	GNT30-48
GPM41 Series														
41	5.1V @ 6.0A	0.15	4.00 x 2.00 x 1.50 (101.60 x 50.80 x 38.10)	A19950	A19952	A19993CT	—	—	271-2227-ND	65.52	62.25	58.97	55.70	GPM41-5
	12V @ 3.3A	0.03							271-2228-ND	65.52	62.25	58.97	55.70	GPM 41-12
	24V @ 1.7A	0.01							271-2229-ND	65.52	62.25	58.97	55.70	GPM41-24
GPM Series														
40	12V @ 3.3A	—	3.00 x 5.00 x 1.28 (76.20 x 127.00 x 32.51)	WM2123	WM2104	WM17403	—	—	271-1019-ND	81.76	77.68	73.60	69.50	GPM40-12
	15V @ 2.7A	—							271-1020-ND	81.76	77.68	73.60	69.50	GPM40-15
	24V @ 1.7A (2.1pk)	—							271-1021-ND	81.76	77.68	73.60	69.50	GPM40-24
	28V @ 1.4A (2.1pk)	—							271-1022-ND	81.76	77.68	73.60	69.50	GPM40-28
	+5V @ 8.0A	—							271-1023-ND	81.76	77.68	73.60	69.50	GPM40-5
80/110*	12V @ 6.7A	—	7.00 x 4.25 x 1.86 (177.80 x 107.95 x 47.24)	WM2103	WM2105	WM17403	—	—	271-1027-ND	149.91	142.41	134.92	127.42	GPM80-12
	24V @ 3.4A	—							271-1029-ND	149.91	142.41	134.92	127.42	GPM80-24
GLM Series														
50	3.3V @ 8A	—	4.25 x 2.50 x 1.25 (107.95 x 63.50 x 31.75)	A19951	A19954	A19990	—	—	271-2196-ND	67.19	65.62	63.24	59.66	GLM50-3.3
	5.1V @ 8A	—							271-2198-ND	67.19	65.62	63.24	59.66	GLM50-5
	12V @ 4.2A	—							271-2192-ND	67.19	65.62	63.24	59.66	GLM50-12
	15V @ 3.3A	—							271-2193-ND	67.19	65.62	63.24	59.66	GLM50-15
	24V @ 2.1A	—							271-2194-ND	67.19	65.62	63.24	59.66	GLM50-24
	28V @ 1.8A	—							271-2195-ND	67.19	65.62	63.24	59.66	GLM50-28
65	12V @ 5.5A	—	5.00 x 3.00 x 1.00 (127.00 x 76.20 x 25.40)	A19951	A19954	A19990	—	—	271-2159-ND	80.81	76.78	72.73	68.15	GLM65-12
	15V @ 4.3A	—							271-2160-ND	80.81	76.78	72.73	68.70	GLM65-15
	24V @ 2.7A	—							271-2161-ND	80.81	76.78	72.73	68.15	GLM65-24
	28V @ 2.3A	—							271-2162-ND	80.81	76.78	72.73	68.15	GLM65-28
	48V @ 1.35A	—							271-2164-ND	80.81	76.78	72.73	68.70	GLM65-48
GPFM Series														
115	5.1V @ 12A	—	5.25 x 3.30 x 1.50 (133.35 x 83.82 x 38.10)	A19953	A19956	A19990	A19492	A19520	271-2158-ND	120.23	114.22	108.23	91.10	GPFM115-5
	12V @ 6.7A	—							271-2153-ND	120.23	114.22	108.23	91.10	GPFM115-12
	15V @ 5.3A	—							271-2154-ND	120.23	114.22	108.23	91.10	GPFM115-15
	24V @ 3.3A	—							271-2155-ND	120.23	114.22	108.23	91.10	GPFM115-24

◊ ***RoHS Compliant*** * 26cfm moving air required. † Convection/Air Flow

(Continued)

Medical Global Switchers *(Cont.)*

Single Output Medical *(Cont.)*

Total Power Watts	Output 1	Min. Load	Dimensions Inch (mm) L x W x H	Mating Connectors					Digi-Key Part No.	Price Each				Condor Part No.
				Housing Input	Housing Output	Contacts	Signal Housing	Signal Contacts		1	10	25	50	
115	28V @ 2.9A	—	5.25 x 3.30 x 1.50 (133.35 x 83.82 x 38.10)	A19953	A19956	A19990	A19492	A19520	271-2156-ND	120.23	114.22	108.23	91.10	GPFM115-28
	48V @ 1.7A	—							271-2157-ND	120.23	114.22	108.23	91.10	GPFM115-48
250	12V @ 21A	—	8.00 x 5.00 x 1.75 (203.20 x 127.00 x 44.45)	A19953	A19956	A19990	—	—	271-2147-ND	297.09	282.24	267.39	252.53	GPFM250-12
	15V @ 17A	—							271-2148-ND	297.09	282.24	267.39	252.53	GPFM250-15
	24V @ 11A	—							271-2149-ND	297.09	282.24	267.39	252.53	GPFM250-24
	28V @ 9.5A	—							271-2150-ND	297.09	282.24	267.39	252.53	GPFM250-28
	48V @ 5.2/6.1A†	—							271-2151-ND	297.09	282.24	267.39	252.53	GPFM250-48
Cover with Fan for GPFM250 Series, 8.00" x 5.00" x 1.81" (203.20mm x 127.00m x 45.97mm)........									271-1138-ND	19.20	—	—	—	09-250CF
GLD Series														
150	12V @ 10.8A	—	7.00 x 4.50 x 1.70 (177.80 x 114.30 x 43.18)	WM18436	WM3703	WM5959	A19494	A19490	271-2172-ND	230.35	218.83	207.32	195.81	GLD150-12
	15V @ 8.7A	—							271-2173-ND	230.35	218.83	207.32	195.81	GLD150-15
	24V @ 5.7A	—							271-2174-ND	230.35	218.83	207.32	195.81	GLD150-24
GPMP Series														
600	24V @ 25A	—	13.26 x 4.85 x 2.48 (336.80 x 123.19 x 62.99)	—	—	—	—	—	271-2236-ND	478.86	442.47	427.10	409.30	GPMP600-24
	28V @ 21.5A	—		—	—	—	—	—	271-2237-ND	615.68	568.89	549.12	526.24	GPMP600-28
	36V @ 17A	—		—	—	—	—	—	271-2238-ND	592.00	547.01	528.00	506.00	GPMP600-36
	48V @ 14A	—		—	—	—	—	—	271-2239-ND	615.68	568.89	549.12	526.24	GPMP700-48

Triple Output Medical

Total Power Watts	Output 1	Output 2	Output 3	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Condor Part No.
					Housing Input	Housing Output	Contacts		1	10	25	50	
GPM Series													
40	+5V @ 4.0A	+12V @ 2.0A (3pk)	-12V @ 0.4A	3.00 x 5.00 x 1.28 (76.20 x 127.00 x 32.51)	WM2123	WM2104	WM17403	271-1039-ND	81.76	77.68	73.60	69.50	GPM40A
	+5V @ 4.0A	+15V @ 2.0A (3pk)	-15V @ 0.4A					271-1040-ND	81.76	77.68	73.60	69.50	GPM40B
GLM50 Series													
50	+5.05V @ 4A	+12V @ 2.5A	-12V @ 0.2A	4.25 x 2.50 x 1.25 (107.95 x 63.50 x 31.75)	A19951	A19954	A19990	271-2199-ND	67.19	65.62	63.24	59.66	GLM50A
	+5.1V @ 4A	+15V @ 2.5A	-15V @ 0.2A					271-2200-ND	67.19	65.62	63.24	59.66	GLM50B
	+5.1V @ 4A	+24V @ 1.5A	-12V @ 0.2A					271-2201-ND	67.19	65.62	63.24	59.66	GLM50D

Quad Output Medical

Total Power Watts	Output 1	Output 2	Output 3	Output 4	Dimensions Inch (mm) L x W x H	Mating Connectors			Digi-Key Part No.	Price Each				Condor Part No.
						Housing Input	Housing Output	Contacts		1	10	25	50	
GPM Series														
55	+5V @ 6.0A	+12V @ 3.0A (5pk)	+12V @ 1.0A	-12V @ 1.0A	6.30 x 3.94 x 1.68 (160.02 x 100.08 x 42.67)	WM17401	WM17402	WM17403	271-1041-ND	109.02	103.57	98.12	92.67	GPM55A
55	+5V @ 6.0A	+12V @ 3.0A (5pk)	-12V @ 1.0A	-5V @ 1.0A					271-1042-ND	109.02	103.57	98.12	92.67	GPM55B
55	+5V @ 6.0A	+15V @ 3.0A (5pk)	-15V @ 1.0A	-5V @ 1.0A					271-1043-ND	109.02	103.57	98.12	92.67	GPM55C
55	+5V @ 6.0A	+24V @ 1.5A (2pk)	+12V @ 1.0A	-12V @ 1.0A					271-1044-ND	109.02	103.57	98.12	92.67	GPM55D
55	+5V @ 6.0A	+24V @ 1.5A (2pk)	+15V @ 1.0A	-15V @ 1.0A					271-1045-ND	109.02	103.57	98.12	92.67	GPM55E
80/110*	+5V @ 12.0A	+12V @ 3.0A (5pk)	-12V @ 1.0A	+12V @ 1.0A	7.00 x 4.25 x 1.86 (177.80 x 107.95 x 47.24)	WM2103	WM1910	WM17403	271-1046-ND	149.91	142.41	134.92	127.42	GPM80A
80/110*	+5V @ 12.0A	+12V @ 3.0A (5pk)	-15V @ 1.0A	+15V @ 1.0A					271-1048-ND	149.91	142.41	134.92	127.42	GPM80C
80/110*	+5V @ 12.0A	+24V @ 2.0A (4pk)	-15V @ 1.0A	+15V @ 1.0A					271-1050-ND	149.91	142.41	134.92	127.42	GPM80E
80/110*	+5V @ 12.0A	+24V @ 3.5A (4.5pk)	-12V @ 1.0A	+12V @ 2.0A					271-1051-ND	149.91	142.41	134.92	127.42	GPM80P

◊ ***RoHS Compliant*** * 26cfm moving air required. † Convection/Air Flow

Linear Medical Power Supplies

World Class Medical Linears

FEATURES: • 19 Models (single, dual and triple output) • Approved to UL 544, IEC 601 and CSA 234 L3 • 3 power levels (5 to 92 watts) • Medical leakage current does not exceed 10µA • 8-Hour burn-in with cycling • Full 3-year warranty
World Wide AC Input Ranges: • AC Input: 110/120/220/240VAC, 47-63Hz • OVP on all 5V outputs • Meets EMI per FCC/VDE B
Industry Standard Packaging: • Hermetically sealed power transistors and ICs • MTFB 200,000+ hours per mil handbook 217D

Single Output

Output	Dimensions Inch (mm)	Digi-Key Part No.	Price Each				Condor Part No.
			1	10	25	50	
5V@1.0A	4.25 x 3.25 x 1.80 (107.95 x 82.55 x 45.72)	271-1018-ND	46.50	45.11	44.19	43.96	ML5-1-OV-A
5V@3.0A	4.88 x 4.00 x 2.25 (123.95 x 101.60 x 57.15)	271-1006-ND	56.05	54.37	53.25	50.44	MB5-3-OV-A
5V@6.0A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1012-ND	71.55	69.41	67.98	64.40	MC5-6-OV-A
12V@1.7A	4.88 x 4.00 x 2.25 (123.95 x 101.60 x 57.15)	271-1002-ND	56.05	54.37	53.25	50.44	MB12-1.7-A
12V@3.4A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1009-ND	71.55	69.41	67.98	64.40	MC12-3.4-A
15V@0.4A	4.25 x 3.25 x 1.80 (107.95 x 82.55 x 45.72)	271-1017-ND	46.50	45.11	44.19	43.96	ML15-O.4-A
15V@1.5A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1003-ND	56.05	54.37	53.25	50.44	MB15-1.5-A
24V@1.2A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1004-ND	56.05	54.37	53.25	50.44	MB24-1.2-A
24V@2.4A	5.63 x 4.86 x 2.95 (143.00 x 123.44 x 74.93)	271-1011-ND	71.55	69.41	67.98	64.40	MC24-2.4-A
24V@4.8A	9.00 x 4.86 x 3.30 (228.60 x 123.44 x 83.82)	271-1015-ND	110.91	107.58	105.36	99.81	MD24-4.8-A
28V@1.0A	4.86 x 4.00 x 2.25 (123.44 x 101.60 x 57.15)	271-1005-ND	56.05	54.37	53.25	50.44	MB28-1-A

Multiple Output

Output 1	Output 2	Output 3	Dimensions Inch (mm)	Digi-Key Part No.	Price Each				Condor Part No.
					1	10	25	50	
Dual Output									
+12/15V@1.0/0.8A	–12/15V@1.0/0.8A	—	6.50 x 4.00 x 2.25 (165.10 x 101.60 x 57.15)	271-1000-ND	63.22	61.32	60.05	56.81	MAA15-0.8-A
+12/15V@1.7/1.5A	–12/15V@1.7/1.5A	—	7.00 x 4.88 x 2.95 (177.80 x 123.95 x 74.93)	271-1008-ND	81.10	78.67	77.04	72.99	MBB15-1.5-A
+12/15V@3.4/3.0A	–12/15V@3.4/3.0A	—	9.38 x 4.88 x 3.30 (238.25 x 123.95 x 83.82)	271-1014-ND	121.63	118.00	115.57	109.47	MCC15-3-A
Triple Output									
+5V@3.0A	+12/15V@1.0/0.8A	–12/15V@1.0/0.8A	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	271-1007-ND	104.95	101.79	99.70	94.46	MBAA40W-A

CONDOR Linear Power Supplies

Burn-in with cycling; 3-year mfg. warranty.

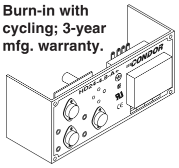

FEATURES:

• Worldwide AC input ranges and safety standards • Industry standard packages • UL/CSA TUV/IEC approved - 68 models to UL1950; CSA C22.2 No. 234 L3; TUV certified to IEC950 • Capacitors have highest CV & ripple current ratings • MTBF 200,000+ hours per Mil Handbk 217D (most units) • All electrolytic caps rated at 105°C • Transformer insulation meets Class F (155°C) • Exceed FCC and CISPR22 Class B conducted emissions • CE marked to LVD

GENERAL SPECIFICATIONS:

• **AC Input:** 100/120/240VAC: +10%, -13%; 215VAC: +12%, -11%; 47 ~ 63Hz. Tolerance for 230VAC operation is +15%, -10%. Derate output current 10% for 50Hz operation • **DC Output:** Adjustment range ±5% minimum except HA series • **Line Regulation:** ±0.05% for a 10% change • **Load Regulation:** ±0.05% for a 50% load change • **Output Ripple**: 3mV +0.05% of output voltage, peak to peak maximum. All "3-terminal regulator" outputs: 3mV +0.2% peak to peak maximum • **Transient Response:** <50 microseconds for 50% load change • **Short Circuit Protection:** Automatic current limit/foldback • **Overvoltage Protection:** Built-in on all 5V models, set at 6.2V ±0.4V. Other models use optional over voltage protection • **Stability**: ±0.05% for 24 hours after warmup • **Temperature Rating**: 0°C ~ 50°C full rated, derated linearly to 40% at 70°C • **Temperature Coefficient:** ±0.01%/°C maximum • **Logic Inhibit and Current-Share:** F Models

International+ Series Single Output

Output	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each 1	10	25	50	100	Condor Part No.
5V@1.5A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2007-ND	37.92	34.64	33.97	32.30	30.64	HA5-1.5-OV-A+
5V@3A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2019-ND	40.45	39.25	38.47	36.55	34.73	HB5-3-OV-A+
5V@6A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2029-ND	65.49	63.56	61.13	57.92	54.69	HC5-6-OV-A+
5V@9A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2052-ND	89.34	86.69	83.78	79.38	74.97	HN5-9-OV-A+
5V@18A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2047-ND*	148.14	143.88	141.04	132.86	124.90	HE5-18-OV-A+
12V@1.7A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2014-ND	40.45	39.24	38.46	36.55	34.73	HB12-1.7-A+
12V@3.4A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2025-ND	59.53	57.76	55.46	52.55	49.62	HC12-3.4-A+
12V@5.1A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2048-ND	83.38	80.92	78.12	74.01	69.89	HN12-5.1-A+
12V@6.8A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2034-ND	95.31	92.48	89.44	85.90	80.03	HD12-6.8-A+
12V@10.2A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2043-ND*	130.48	126.60	124.01	117.56	109.93	HE12-10.2-A+
15V@0.9A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2005-ND	35.86	34.64	33.97	32.30	30.64	HA15-0.9-A+
15V@3A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2026-ND	59.53	57.76	55.46	52.55	49.62	HC15-3-A+
15V@4.5A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2049-ND	83.38	80.92	78.12	74.01	69.89	HN15-4.5-A+
15V@6A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2035-ND	95.31	92.48	89.44	85.90	80.03	HD15-6-A+
15V@15A	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 (8.62)	271-2054-ND*	201.98	196.45	190.56	186.76	175.56	F15-15-A+
24V@0.5A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2006-ND	37.92	34.64	33.97	32.30	30.64	HA24-0.5-A+
24V@2.4A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2027-ND	59.53	57.76	55.46	52.55	49.62	HC24-2.4-A+
24V@3.6A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2050-ND	83.38	80.92	78.12	74.01	69.89	HN24-3.6-A+
24V@4.8A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2036-ND	95.31	92.48	89.44	85.90	80.03	HD24-4.8-A+
24V@7.2A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2045-ND*	130.48	126.60	124.01	117.56	109.93	HE24-7.2-A+
24V@12A	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 (8.62)	271-2055-ND*	201.98	196.45	190.56	186.76	175.56	F24-12-A+
28V@2A	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 (1.93)	271-2028-ND	59.53	57.76	55.46	52.55	49.62	HC28-2-A+
28V@3A	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 (2.72)	271-2051-ND	83.38	80.92	78.12	74.01	69.89	HN28-3-A+
28V@4A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2037-ND	95.34	92.48	89.44	85.90	80.03	HD28-4-A+
48V@0.5A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2018-ND	46.27	44.89	44.00	41.37	39.31	HB48-0.5-A+
48V@3A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2038-ND*	100.12	97.13	95.11	90.11	85.10	HD48-3-A+
48V@4A	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2046-ND*	142.40	138.16	135.34	128.28	120.07	HE48-4-A+
48V@6A	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 (8.62)	271-2056-ND*	218.48	211.96	205.60	201.49	189.41	F48-6-A+

International+ Series Dual Output

Output 1	Output 2	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
5V@1.5A	5V@1.5A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2010-ND	57.55	54.45	53.32	50.53	HAA5-1.5-OV-A+
5V@2A	9V ~ 15V@0.5A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2011-ND	59.53	56.56	55.46	52.55	HAA512-A+
5V@3A	9V ~ 15V@1.2A	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 (2)	271-2023-ND	71.50	69.35	67.92	64.36	HBB512-A+
5V@6A	9V ~ 15V@2.5A	9.38 x 4.87 x 3.28 (238.25 x 123.70 x 83.31)	7 (3.18)	271-2033-ND*	113.19	109.83	106.44	100.84	HCC512-A+
5V@3A	18V ~ 24V@0.8A	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 (2)	271-2024-ND	72.59	70.46	68.35	64.94	HBB524-A+
12V@0.4A	-12V@0.4A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2012-ND	44.26	43.24	41.29	39.14	HAD12-0.4-A+
15V@0.4A	-15V@0.4A	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 (1)	271-2013-ND	44.26	43.24	41.29	39.14	HAD15-0.4-A+
12V ~ 15V@1.7A/1.5A	-12V ~ -15V@1.7A/1.5A	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 (2)	271-2021-ND	65.53	63.57	62.25	58.98	HBB15-1.5-A+
12V ~ 15V@3.4A/3A	-12V ~ -15V@3.4A/3A	9.38 x 4.87 x 3.28 (238.25 x 123.70 x 83.31)	7 (3.18)	271-2032-ND	104.83	101.72	99.67	93.33	HCC15-3-A+
12V ~ 15V@5A	-12V ~ -15V@5	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 (4.54)	271-2042-ND*	154.33	149.73	146.77	139.01	HDD15-5-A+
18V ~ 24V@0.4A/0.6A	-18V ~ -24V@0.4A/0.6A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2009-ND	50.02	48.54	47.53	45.04	HAA24-0.6-A+

International+ Series Triple Output

Output 1	Output 2	Output 3	Dimensions Inch (mm)	Weight lbs. (kilograms)	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
5V@2A	12V ~ 15V@0.4/0.4A	-12V ~ -15V@0.4/0.4A	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 (1.13)	271-2053-ND†	65.49	63.56	61.13	57.83	HTAA-16W-A+
5V@3A	12V ~ 15V@1/0.8A	-12V ~ -15V@1/0.8A	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	5 (2.27)	271-2020-ND†	90.53	87.85	84.91	80.46	HBAA40W-A+
5V@6A	12V ~ 15V@1/0.8A	-12V ~ -15V@1/0.8A	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 (3.40)	271-2030-ND†	107.22	104.05	101.91	95.80	HCAA60W-A+
5V@6A	12V ~ 15V@1.7/1.5A	-12V ~ -15V@1.7/1.5A	11.00 x 4.87 x 3.28 (279.40 x 123.70 x 83.31)	8 (3.63)	271-2031-ND†	123.74	120.20	115.39	109.63	HCBB75W-A+
5V@9A	12V ~ 15V@1.7/1.5A	-12V ~ -15V@1.7/1.5A	11.00 x 4.88 x 2.75 (279.40 x 123.95 x 69.85)	12 (5.44)	271-2001-ND†	143.00	138.75	135.91	127.68	CP131-A+
5V@12A	12V ~ 15V@1.7/1.5A	-12V ~ -15V@1.7/1.5A	14.25 x 4.87 x 3.38 (361.95 x 123.70 x 85.85)	11 (4.99)	271-2040-ND†*	160.89	156.10	151.75	143.77	HDBB105W-A+
5V@6A	24V@3.5/6A	-5V or -12V@1.2A	11.00 x 4.88 x 2.75 (279.40 x 123.95 x 69.85)	12 (5.44)	271-2003-ND	153.18	148.59	145.53	137.87	CP379-A+

* Requires fan cooling. † No. 3 output usable at -5V, rate at 1/2 of 15V current rating.

CONDOR Switch Mode DC Power Supplies

The standard version power supply for data processing, control, etc., applications.

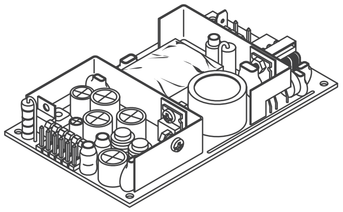

General Features: • Cost Effective Power Source • 2 -Year Warranty - 100% burn-in, test and inspection.

Safety Specifications: • Conform with the applicable requirements of EN60950 following the provisions of the Low Voltage Directive 73/23/EEC. Approved to UL1950, CSA22.2 No. 234 Level 3, IEC950, EN60950, VDE 0805 and CSA950

General Specifications: • **AC Input:** 90-264VAC, 47-63 Hz single phase (GPC41, GPFC110 and GPFC160 Series: 85-264VAC, 47-63 Hz single phase) • **Overload Protection:** Fully protected against short circuit and output overload • **Temperature Rating:** 0°C ~ 50°C full rated output power • **EMI Compliance:** All models include EMI filtering to meet or exceed conducted emissions of CISPR 11 Class B, VDE0871 Class B and EN55022 Class B (GPFC110 in compliance to CISPR22, FCC Class B) • **Remote Sense:** GPFC110 and GPFC160 Series only • **Reverse Voltage Protection:** All outputs protected against inadvertent application of reverse voltage up to 1 times the rated current of the reverse output

Wattage	Voltage	Min. Load	Current (A)	Current (B)	I Peak	Dimensions L x W x H Inch (mm)	Mating Connectors					Digi-Key Part No.	Price Each				Condor Part No.
							Housing Input	Housing Output	Contacts	Signal Housing	Signal Contact		1	10	25	50	
GSC 20 Series — Commercial Switcher																	
20	+12	0	1.7A	—	—	2.00 x 3.50 x 0.68 (50.80 x 88.90 x 17.27)	WM17405	WM17405	WM17406	—	—	271-1030-ND	52.42	49.80	47.18	44.56	GSC20-12
	+24	0	0.85A	—	—		WM17405	WM17405	WM17406	—	—	271-1032-ND	52.42	49.80	47.18	44.56	GSC20-24
	+28	0	0.7A	—	—		WM17405	WM17405	WM17406	—	—	271-1033-ND	52.42	49.80	47.18	44.56	GSC20-28
	+5	0	3.8A	—	—		WM17405	WM17405	WM17406	—	—	271-1034-ND	52.42	49.80	47.18	44.56	GSC20-5
Chassis and Cover for GSC20 Series, 3.80" x 2.36" x 1.06" (96.52mm x 59.94mm x 26.92mm)…………												271-1131-ND	13.62	—	—	—	08-30466-020W
Triple Output - GSC25 Series																	
25	+5.1V	0.25A	2.5A	—	—	4.25 x 2.5 x .86 (107.95 x 63.50 x 21.84)	WM2123	WM2104	WM17403	—	—	271-1105-ND	55.69	52.91	50.13	47.35	GSC25A
	+12V	0	1.5A														
	-12	0	0.2A														
25	+5.1V	0.25A	2.5A	—	—	4.25 x 2.5 x .86 (107.95 x 63.50 x 21.84)	WM2123	WM2104	WM17403	—	—	271-1106-ND	55.69	52.91	50.13	47.35	GSC25D
	+24V	0	1.0A														
	-12	0	0.2A														
Chassis and Cover for GSC25 Series, 5.00 x 2.90 x 1.50 (127.00mm x 73.66mm x 38.10mm)…………												271-1127-ND	13.62	—	—	—	08-30466-0025
Single Output - GPC41 Series																	
30	5.1V	0.15	6.0A	—	—	4.00 x 2.00 x 1.5	A19950	A19952	A19990	—	—	271-1124-ND	54.60	51.88	49.14	46.42	GPC41-5
40	12V	0.03	3.3A	—	—	(101.60 x 50.80 x 38.10)	A19950	A19952	A19990	—	—	271-1125-ND	54.60	51.88	49.14	46.42	GPC41-12
Cover for GPC41 Series, 3.32" x 1.98" x 1.66" (84.33mm x 50.29mm x 42.16mm)…………												271-1129-ND	13.62	—	—	—	08-30466-1041
Single Output - GLC50 Series																	
50	3.3V	0	8A	—	—	4.25 x 2.5 x 1.10 (107.95 x 63.50 x 27.94)	WM2123	WM2126	WM17403	—	—	271-1109-ND	58.43	57.06	54.99	51.88	GLC50-3.3
	5.1V	0	8A	—	—		WM2123	WM2126	WM17403	—	—	271-1110-ND	58.43	57.06	54.99	51.88	GLC50-5
	12V	0	4.2A	—	—		WM2123	WM2126	WM17403	—	—	271-1111-ND	58.43	57.06	54.99	51.88	GLC50-12
	24V	0	2.1A	—	—		WM2123	WM2126	WM17403	—	—	271-1112-ND	58.43	57.06	54.99	51.88	GLC50-24
Triple Output - GLC50 Series																	
50	+5.1V	0.8A	4A	—	—	4.25 x 2.5 x 1.10 (107.95 x 63.50 x 27.94)	WM2123	WM2126	WM17403	—	—	271-1107-ND	58.43	57.06	54.99	51.88	GLC50A
	+12V		2.5A														
	-12V		0.2A														
50	+5.1V	0.8A	4A	—	—	4.25 x 2.5 x 1.10 (107.95 x 63.50 x 27.94)	WM2123	WM2126	WM17403	—	—	271-1108-ND	58.43	57.06	54.99	51.88	GLC50D
	+24V		1.5A														
	-12V		0.2A														
Chassis and Cover for GLC50 Series, 5.00 x 2.90 x 1.50 (127.00mm x 73.66mm x 38.1mm)…………												271-1130-ND	13.62	—	—	—	08-30466-0050
GLC65 Series																	
65	+5.1V	0	11A	—	—	5.00 x 3.00 x 1.00 (127.00 x 76.20 x 25.40)	A19951	A19954	A19990	—	—	271-2171-ND	76.71	72.89	69.05	65.21	GLC65-5
	+12V	0	5.5A	—	—		A19951	A19954	A19990	—	—	271-2166-ND	75.15	71.40	67.65	64.29	GLC65-12
	+15V	0	4.3A	—	—		A19951	A19954	A19990	—	—	271-2167-ND	75.15	71.40	67.65	64.29	GLC65-15
	+24V	0	2.7A	—	—		A19951	A19954	A19990	—	—	271-2168-ND	75.15	71.40	67.65	64.29	GLC65-24
	+28V	0	2.3A	—	—		A19951	A19954	A19990	—	—	271-2169-ND	75.15	71.40	67.65	64.29	GLC65-28
	+48V	0	1.35A	—	—		A19951	A19954	A19990	—	—	271-2170-ND	76.71	72.89	69.05	65.21	GLC65-48
65	+3.3V	—	5A	—	—	5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	WM2101	WM2104	WM2313	—	—	271-2214-ND	74.95	71.21	67.64	64.97	GLC65H
	+5.0V		4A														
	+12V		2.5A														
Single Output - GLC75 Series (See Amperage Rating Notes Below)																	
75	12V	0	6.3A	9.1A	9.1A	5.75 x 3.40 x 1.56	WM2125	WM2129	WM17403	—	—	271-1114-ND	71.58	68.01	64.43	61.34	GLC75-12
	24V	0	3.1A	4.6A	4.6A	(146.05 x 86.36 x 39.70)	WM2125	WM2129	WM1 7403	—	—	271-1115-ND	71.58	68.01	64.43	61.34	GLC75-24
Chassis and Cover for GLC75 Single Output Series, 5.90 x 3.75 x 1.98 (149.86mm x 95.25mm x 50.29mm)…………												271-1132-ND	13.84	—	—	—	08-30466-2075
Quad Output - GLC75 Series (See Amperage Rating Notes Below)																	
75	+5.1V	1A	8A	10A	12A	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	WM2125	WM17404	WM17403	—	—	271-1116-ND	76.92	73.09	69.24	65.38	GLC75A
	+12V	0.5A	2.5A	3A	4A												
	-12V	—	1A	1A	1.2A												
	12V*	—	2.5A	3A	4A												

* Floating fourth output can be referenced as either positive or negative. **Amperage Rating Notes for GLC75 and GLC110 Series:** • **Current A**: Rating with unrestricted convection cooling. Total power not to exceed 75W. • **Current B:** Rating with 26cfm forced air cooling. Total power not to exceed 110W. • **I Peak:** During peak load conditions output regulation may exceed specified limits.

(Continued)

CONDOR Switch Mode DC Power Supplies *(Cont.)*

Watt-age	Volt-age	Min. Load	Current (A)	Current (B)	I Peak	Dimensions L x W x H Inch (mm)	Mating Connectors Housing Input	Housing Output	Contacts	Signal Housing	Signal Contact	Digi-Key Part No.	Price Each 1	10	25	50	Condor Part No.
75	+5.1V	1A	8A	10A	12A	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	WM2125	WM17404	WM17403	—	—	271-1117-ND	76.92	73.09	69.24	65.38	GLC75D
	+24V	0.5A	2.5A	3A	4A												
	-12V	—	1A	1A	1.2A												
	12V*	—	2.5A	3A	4A												
Single Output - GLC110 Series (See Amperage Rating Notes Below)																	
110	+12V	0	6.3A	9.1A	9.5A	7.00 z 4.25 x 1.30 (177.80 x 107.95x 33.02)	A19953	A28761	A19990	—	—	271-2203-ND	76.58	72.74	68.93	65.09	GLC110-12
	+15V	0	5A	7.3A	7.7A		A19953	A28761	A19990	—	—	271-2204-ND	73.63	69.94	66.27	62.58	GLC110-15
Double Output - GLC110 Series (See Amperage Rating Notes Below)																	
110	+12V	0	6.3A	9.1A	9.5A	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2205-ND	82.34	78.22	74.10	69.99	GLC110-212
	-12V	0	2.5A	3A	4A												
110	+15V	1A	6.3A	7.3A	7.7A	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2206-ND	82.34	78.22	74.10	69.99	GLC110-215
	-15V	0	2.5A	3A	4A												
110	+24V	1A	3.2A	4.6A	5A	7.00 x 4.25 x 1.30 (177.80 x 107.95 x 33.02)	A19953	A28761	A19990	—	—	271-2208-ND	82.34	78.22	74.10	69.99	GLC110-524
	+5V	0	1.5A	2A	2.5A												
Chassis and Cover for GLC75 and GLC110 Multiple Output Series, 7.30 x 4.50 x 2.10 (185.42mm x 114.30mm x 53.34mm)												271-1137-ND	13.84	—	—	—	08-30466-2175
Single Output - GPFC110 Series																	
110	+5.1V	—	12A	—	20A	6.3 x 3.75 x 1.62 (160.02 x 95.25 x 41.15)	A19953	A19957	A19990	—	—	271-2180-ND	104.55	99.32	94.10	79.22	GPFC110-5
	+12V	—	6.7A	—	10A		A19953	A19957	A19990	—	—	271-2175-ND	104.55	99.32	94.10	79.22	GPFC110-12
	+15V	—	5.3A	—	8A		A19953	A19957	A19990	—	—	271-2176-ND	104.55	99.32	94.10	79.22	GPFC110-15
	+24V	—	3.4A	—	5A		A19953	A19957	A19990	—	—	271-2177-ND	104.55	99.32	94.10	79.22	GPFC110-24
	+28V	—	2.9A	—	4.3A		A19953	A19957	A19990	—	—	271-2178-ND	104.55	99.32	94.10	79.22	GPFC110-28
	+48V	—	1.7A	—	2.5A		A19953	A19957	A19990	—	—	271-2179-ND	104.55	99.32	94.10	79.22	GPFC110-48
Cover for GPFC110 Series, 6.30 x 3.75 x 1.75 (160.02mm x 95.25mm x 44.45mm)												271-1133-ND	13.84	—	—	—	08-30466-2110
GPFC125 Series ‡																	
125	+5V	2A+V4 Current	9A	16A	—	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2215-ND	184.68	175.44	166.22	156.98	GPFC125A
	+12V		4A	7A													
	12V†		2.5A	4A													
	-12V		0.3A	1A													
125	+5V	2A+V4 Current	9A	16A	—	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2216-ND	184.68	175.44	166.22	156.98	GPFC125B
	+12V		4A	7A													
	12V†		2.5A	4A													
	-5V		0.3A	1A													
125	+5V	2A+V4 Current	9A	16A	—	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2217-ND	184.68	175.44	166.22	156.98	GPFC125D
	+24V		3A	4.5A													
	12V†		2.5A	4A													
	-12V		0.3A	1A													
125	+5V	2A+V4 Current	9A	16A	—	6.00 x 3.50 x 1.50 (152.40 x 88.90 x 38.10)	WM2125	WM17404	WM17403	—	—	271-2218-ND	184.68	175.44	166.22	156.98	GPFC125G
	+3.3V		7A	10A													
	12V†		2.5A	4A													
	-12V		0.3A	1A													
Cover for GPFC125												271-2220-ND	13.84	—	—	—	08-30466-2125
Single Output - GPFC160 Series																	
160	5.1V	—	26A	—	—	7.00 x 4.50 x 1.69 (177.80 x 114.30 x 42.93)	WM2125	WM17400	WM17403	WM2013	WM2200	271-1118-ND	189.23	179.77	170.32	160.86	GPFC160-5
	12V	—	11.7A	—	—		WM2125	WM17400	WM17403	WM2013	WM2200	271-1119-ND	189.23	179.77	170.32	160.86	GPFC160-12
	24V	—	5.8A	—	—		WM2125	WM17400	WM17403	WM2013	WM2200	271-1120-ND	189.23	179.77	170.32	160.86	GPFC160-24
Cover with Fan for GPFC160 Series, 7.00 x 4.50 x 1.75 (177.80mm x 114.30mm x 44.45mm)												271-1134-ND	19.20	—	—	—	09-160CF

* Floating fourth output can be referenced as either positive or negative. **Amperage Rating Notes for GLC75 and GLC110 Series:** • **Current A**: Rating with unrestricted convection cooling. Total power not to exceed 75W. • **Current B:** Rating with 26cfm forced air cooling. Total power not to exceed 110W. • **I Peak:** During peak load conditions output regulation may exceed specified limits.

† Output 3 is isolated. Can be connected as + or - output. ‡ Peak rating or continuous rating with 150 LFM air cooling.

TOKO Power Supplies SW Series

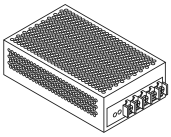

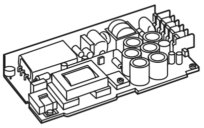

FEATURES: • Very low profile and small size • Wide Variation: 7 type 94 part number • Worldwide Input Voltage: all type 85VAC ~ 264VAC (cont.) • High Dialectic Strength: 2000VAC between input and output • Safety Standards: Designed to meet UL1950(D3).

GENERAL SPECIFICATIONS:

- **Frequency Range:** 47-63 Hz
- **Inrush Current:** 5V~15V = 30/60A; 30V~100V = 45/90A
- **Ripple Voltage (max.):** 5V-12V: 120mVpp; 15V: 150mVpp; 24V: 200mVpp; 48V: 400mVpp:
- **Overall Output Req.:** 3%
- **Overload Protection:** +105% of rated current, automatic recovery
- **Dielectric Strength:** 2.0KVAC for 1 minute applied between input/output
- **Insulation Resistance:** 100mΩ between output/frame and input/output, measured with a 500 VDC tester
- **Operating Temp.:** 0°C ~ 60°C
- **Operating Humidity:** 30% ~ 85% RH
- **Weight:** SW30: 250g; SW50: 400g; SW100: 600g

Input Volt. (Vac)	Output Volt.(s)	Output Current	Dim. (mm) H x D x W	Digi-Key Part No.	Price Each 1	50	Toko Part No.
Output Power — 30 Watts — Open Frame							
85-264	24V	1.33A	97 x 114 x 25.4	TS9996-ND	56.11	50.51	SW30-24F
Output Power — 100 Watts — Enclosed Frame							
85-264	5V	20.0A	97 x 194 x 35	TS9864-ND	164.77	—	SW100-05C

TDK NEW! DC-DC Converters

Features: • Compact size • No tantalum capacitor and no aluminum electrolytic capacitor are used • Output voltage tolerance ±3% at single output, ±5% at dual output units • PWB halogen-free • Input fuse • No external components required • 5-sided metal shielded • 500VAC input to output isolation • UL60950-1, C-UL CSA 60950-1 and EN60950-1 approved

RoHS COMPLIANT

Dimensions in mm

Fig. 1

A; DIP Type

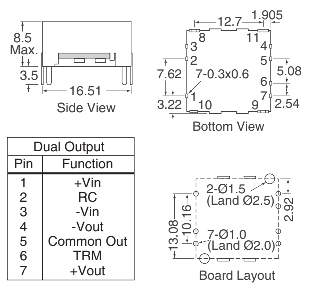

Pin	Function
1	+Vin
2	RC
3	-Vin
4	-Vout
5	Common Out
6	TRM
7	+Vout

Dual Output

B; SMD Type

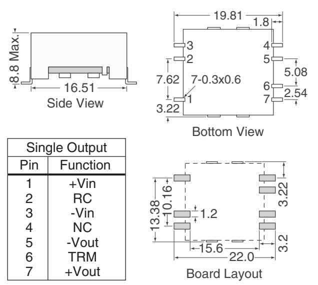

Single Output

Pin	Function
1	+Vin
2	RC
3	-Vin
4	NC
5	-Vout
6	TRM
7	+Vout

Fig. 2

A; DIP Type

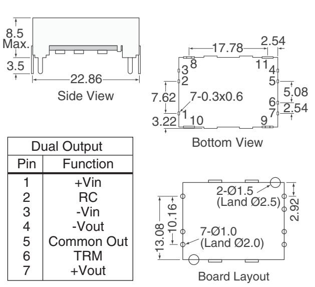

Dual Output

Pin	Function
1	+Vin
2	RC
3	-Vin
4	-Vout
5	Common Out
6	TRM
7	+Vout

B; SMD Type

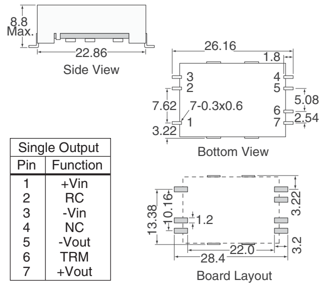

Single Output

Pin	Function
1	+Vin
2	RC
3	-Vin
4	NC
5	-Vout
6	TRM
7	+Vout

Fig. 3

A; DIP Type

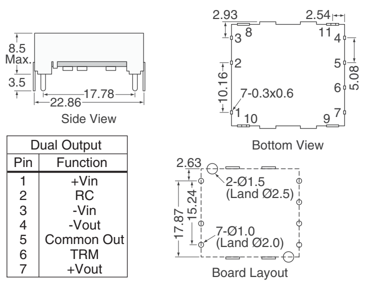

Dual Output

Pin	Function
1	+Vin
2	RC
3	-Vin
4	-Vout
5	Common Out
6	TRM
7	+Vout

B; SMD Type

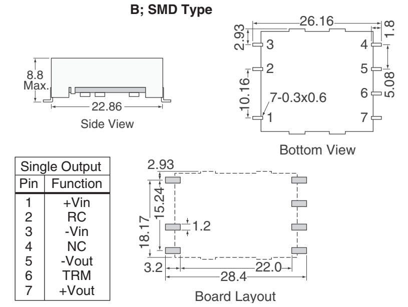

Single Output

Pin	Function
1	+Vin
2	RC
3	-Vin
4	NC
5	-Vout
6	TRM
7	+Vout

Fig. 4

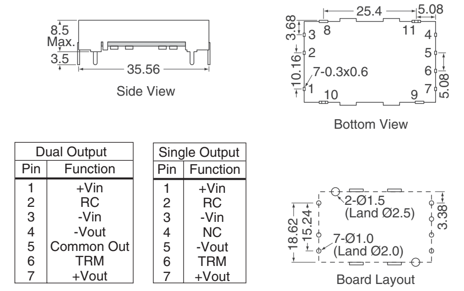

Dual Output

Pin	Function
1	+Vin
2	RC
3	-Vin
4	-Vout
5	Common Out
6	TRM
7	+Vout

Single Output

Pin	Function
1	+Vin
2	RC
3	-Vin
4	NC
5	-Vout
6	TRM
7	+Vout

Fig. 5

CC15 - Series

Pin	Function	Pin	Function
1	NC	10	NC
2	NC	11	NC
3	RC	12	+Vout
4	NC	13	+Vout
5	NC	14	+Vout
6	+Vin	15	-Vout
7	+Vin	16	-Vout
8	-Vin	17	NC
9	-Vin		

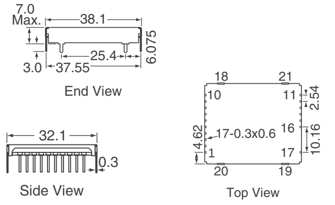

Fig. 6

CC25 - Series

Pin	Function	Pin	Function	Pin	Function
1	NC	10	+Vin	19	-Vout
2	NC	11	+Vin	20	-Vout
3	NC	12	+Vin	21	-Vout
4	RC	13	NC	22	-Vout
5	NC	14	NC	23	-Vout
6	NC	15	+Vout	24	-Vout
7	-Vin	16	+Vout	25	NC
8	-Vin	17	+Vout		
9	-Vin	18	+Vout		

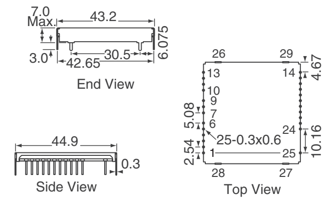

Fig.	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	25	TDK Part No.
					CC1R5 Series — Single Output				
1A	4.5 ~ 9	3.3	.4	1.5	445-2444-ND	9.70	9.22	8.73	CC1R5-0503SF-E
	4.5 ~ 9	5	.3		445-2446-ND	9.70	9.22	8.73	CC1R5-0505SF-E
	4.5 ~ 9	12	.125		445-2448-ND	9.70	9.22	8.73	CC1R5-0512SF-E
	9 ~ 18	3.3	.4	1.5	445-2450-ND	9.70	9.22	8.73	CC1R5-1203SF-E
	9 ~ 18	5	.3		445-2452-ND	9.70	9.22	8.73	CC1R5-1205SF-E
	9 ~ 18	12	.125		445-2455-ND	9.70	9.22	8.73	CC1R5-1212SF-E
	18 ~ 36	3.3	.4	1.5	445-2456-ND	9.70	9.22	8.73	CC1R5-2403SF-E
	18 ~ 36	5	.3		445-2457-ND	9.70	9.22	8.73	CC1R5-2405SF-E
	18 ~ 36	12	.125		445-2459-ND	9.70	9.22	8.73	CC1R5-2412SF-E
1B	4.5 ~ 9	3.3	.4	1.5	445-2445-ND	9.80	9.31	8.82	CC1R5-0503SR-E
	4.5 ~ 9	12	.125		445-2449-ND	9.80	9.31	8.82	CC1R5-0512SR-E
	9 ~ 18	3.3	.4	1.5	445-2451-ND	9.80	9.31	8.82	CC1R5-1203SR-E
	9 ~ 18	5	.3		445-2453-ND	9.80	9.31	8.82	CC1R5-1205SR-E
					CC1R5 Series — Dual Output				
1A	4.5 ~ 9	±12	.6	1.5	445-2447-ND	9.86	9.37	8.88	CC1R5-0512DF-E
	9 ~ 18	±12	.6		445-2454-ND	9.86	9.37	8.88	CC1R5-1212DF-E
	18 ~ 36	±12	.6		445-2458-ND	9.86	9.37	8.88	CC1R5-2412DF-E
					CC3 Series — Single Output				
2A	4.5 ~ 9	3.3	.8	3.0	445-2462-ND	11.44	10.87	10.30	CC3-0503SF-E
	4.5 ~ 9	5	.6		445-2464-ND	11.44	10.87	10.30	CC3-0505SF-E
	4.5 ~ 9	12	.250		445-2466-ND	11.44	10.87	10.30	CC3-0512SF-E
	9 ~ 18	3.3	.8	3.0	445-2468-ND	11.44	10.87	10.30	CC3-1203SF-E
	9 ~ 18	5	.6		445-2470-ND	11.44	10.87	10.30	CC3-1205SF-E
	9 ~ 18	12	.250		445-2473-ND	11.44	10.87	10.30	CC3-1212SF-E
	18 ~ 36	3.3	.8	3.0	445-2474-ND	11.44	10.87	10.30	CC3-2403SF-E
	18 ~ 36	5	.6		445-2475-ND	11.44	10.87	10.30	CC3-2405SF-E
	18 ~ 36	12	.250		445-2477-ND	11.44	10.87	10.30	CC3-2412SF-E
2B	4.5 ~ 9	3.3	.8	3.0	445-2463-ND	11.58	11.01	10.43	CC3-0503SR-E
	4.5 ~ 9	12	.250		445-2467-ND	11.58	11.01	10.43	CC3-0512SR-E
	9 ~ 18	3.3	.8	3.0	445-2469-ND	11.58	11.01	10.43	CC3-1203SR-E
	9 ~ 18	5	.6		445-2471-ND	11.58	11.01	10.43	CC3-1205SR-E
					CC3 Series — Dual Output				
2A	4.5 ~ 9	±12	.125	3.0	445-2465-ND	11.64	11.06	10.48	CC3-0512DF-E
	9 ~ 18	±12	.125		445-2472-ND	11.64	11.06	10.48	CC3-1212DF-E
	18 ~ 36	±12	.125		445-2476-ND	11.64	11.06	10.48	CC3-2412DF-E

Fig.	Input Voltage (V)	Output Voltage (V)	Output Current (A)	Output Power (W)	Digi-Key Part No.	Price Each 1	10	25	TDK Part No.
					CC6 Series — Single Output				
3A	4.5 ~ 9	3.3	1.2	6.0	445-2478-ND	15.08	14.33	13.58	CC6-0503SF-E
	4.5 ~ 9	5	1.0		445-2480-ND	15.08	14.33	13.58	CC6-0505SF-E
	4.5 ~ 9	12	.5		445-2482-ND	15.08	14.33	13.58	CC6-0512SF-E
	9 ~ 18	3.3	1.2	6.0	445-2484-ND	15.08	14.33	13.58	CC6-1203SF-E
	9 ~ 18	5	1.2		445-2486-ND	15.08	14.33	13.58	CC6-1205SF-E
	9 ~ 18	12	.5		445-2489-ND	15.08	14.33	13.58	CC6-1212SF-E
	18 ~ 36	3.3	1.2	6.0	445-2490-ND	15.08	14.33	13.58	CC6-2403SF-E
	18 ~ 36	5	1.2		445-2491-ND	15.08	14.33	13.58	CC6-2405SF-E
	18 ~ 36	12	.5		445-2493-ND	15.08	14.33	13.58	CC6-2412SF-E
3B	4.5 ~ 9	3.3	1.2	6.0	445-2479-ND	15.26	14.50	13.74	CC6-0503SR-E
	4.5 ~ 9	12	.5		445-2483-ND	15.26	14.50	13.74	CC6-0512SR-E
	9 ~ 18	3.3	1.2	6.0	445-2485-ND	15.26	14.50	13.74	CC6-1203SR-E
	9 ~ 18	5	1.2		445-2487-ND	15.26	14.50	13.74	CC6-1205SR-E
					CC6 Series — Dual Output				
3A	4.5 ~ 9	±12	.250	6.0	445-2481-ND	15.36	14.60	13.83	CC6-0512DF-E
	9 ~ 18	±12	.250		445-2488-ND	15.36	14.60	13.83	CC6-1212DF-E
	18 ~ 36	±12	.250		445-2492-ND	15.36	14.60	13.83	CC6-2412DF-E
					CC10 Series — Single Output				
4	4.5 ~ 9	3.3	2.5	10	445-2430-ND	22.92	21.78	20.63	CC10-0503SF-E
	4.5 ~ 9	5	2.0		445-2431-ND	22.92	21.78	20.63	CC10-0505SF-E
	4.5 ~ 9	12	.8		445-2433-ND	22.92	21.78	20.63	CC10-0512SF-E
	9 ~ 18	3.3	2.5	10	445-2434-ND	22.92	21.78	20.63	CC10-1203SF-E
	9 ~ 18	5	2.0		445-2435-ND	22.92	21.78	20.63	CC10-1205SF-E
	9 ~ 18	12	1.0		445-2437-ND	22.92	21.78	20.63	CC10-1212SF-E
	18 ~ 36	3.3	2.5	10	445-2438-ND	22.92	21.78	20.63	CC10-2403SF-E
	18 ~ 36	5	2.0		445-2439-ND	22.92	21.78	20.63	CC10-2405SF-E
	18 ~ 36	12	1.0		445-2441-ND	22.92	21.78	20.63	CC10-2412SF-E
					CC10 Series — Dual Output				
4	4.5 ~ 9	±12	.4	10	445-2432-ND	23.32	22.16	20.99	CC10-0512DF-E
	9 ~ 18	±12	.450		445-2436-ND	23.32	22.16	20.99	CC10-1212DF-E
	18 ~ 36	±12	.450		445-2440-ND	23.32	22.16	20.99	CC10-2412DF-E
					CC15 Series				
5	18 ~ 36	3.3	4.5	15	445-2442-ND	33.68	32.00	30.32	CC15-2403SF-E
	18 ~ 36	5	3.0		445-2443-ND	33.68	32.00	30.32	CC15-2405SF-E
					CC25 Series				
6	18 ~ 36	3.3	7.5	25	445-2460-ND	33.96	32.27	30.57	CC25-2403SF-E
	18 ~ 36	5	5.0		445-2461-ND	33.96	32.27	30.57	CC25-2405SF-E

POWER PRODUCTS

140 Watt Isolated POL DC/DC Converters

Cimarron Series — Industry Standard Eighth-Brick Package

These converters are intended to provide isolation and step down to generate an intermediate bus for the purpose of powering non-isolated Point of Load (POL) converters.
The down stream POL converters will provide the precise regulation required by the load.

Features: • Remote On/Off • Over Current Protection • Short Circuit Protection • Under Voltage Lockout • 1500V Isolation
Electrical Specifications: • Operating Temperature: -40°C ~ 85°C • Remote On/Off: Active Low = 0V to 0.8V • Load Regulation: 07CR-18S08LG = 0.5V, 07CR-12S12LG = 0.7V

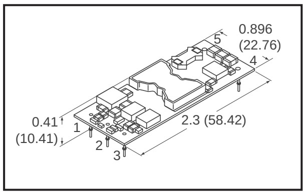

Output Voltage (V out)*	Output Current max. (A out)	Input Voltage (VDC)	Digi-Key Part No.	Price Each 1	10	25	Bel Part No.
8	18	36 - 60	507-1120-ND	42.70	39.50	37.37	07CR-18S08LG
12	12	36 - 60	507-1121-ND	42.70	39.50	37.37	07CR-12S12LG

* Unregulated output will track input voltage with a 6:1 (07CR-18S08LG) or 4:1 (07CR-12S12LG) ratio

S7Bx Series Non-Isolated POL DC/DC Converters

Bel Part No.	Dimensions - Inch (mm) L	W	H	No. of Pins
S7BA-06F2ALG	0.8 (20.32)	0.45 (11.42)	0.235 (5.98)	6
S7BA-06A2ALG S7BA-06E2ALG	0.8 (20.32)	0.45 (11.42)	0.251 (6.38)	6
S7BC - Series	1.30 (33.02)	0.53 (13.46)	0.315 (8.00)	7

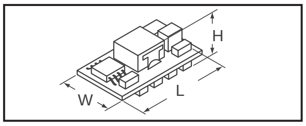

Electrical Specifications:

- Operating Temperature: -40°C ~ 85°C
- Output Voltage Trim: Voltage set-point adjustment with use of a resistor (see data sheet)

Features:

- Input Under Voltage Lockout (UVLO)
- Over Current/Short Circuit Protection (OCP/SCP)
- Remote On/Off
- Output Voltage Sequencing. These modules include a sequencing feature that enables users to implement various types of output voltage sequencing in an application. This is accomplished via an additional sequencing pin. When the sequencing feature is not used, tie the SEQ pin to the input voltage.

Output Voltage (V out)	Output Current max. (A out)	Input Voltage Range (V in)	Remote Sense	Over Temp. Protection (OTP)	Digi-Key Part No.	Price Each 1	10	25	Bel Part No.
0.75 - 3.63	6	2.4 - 5.5	—	X	507-1157-ND	11.70	10.83	10.24	S7BA-06F2ALG
	10	2.4 - 5.5	X	X	507-1158-ND	15.00	13.88	13.13	S7BC-10F2ALG
	10	4.5 - 14	X	X	507-1159-ND	15.00	13.88	13.13	S7BC-10E2ALG
	16	2.4 - 5.5	X	X	507-1160-ND	17.90	16.56	15.67	S7BC-16F2ALG
	16	4.5 - 14	X	X	507-1161-ND	17.90	16.56	15.67	S7BC-16E2ALG
0.75 - 5.0	6	4.5 - 14	—	—	507-1162-ND	11.70	10.83	10.24	S7BA-06E2ALG
	6	8.3 - 14	—	X	507-1163-ND	11.70	10.83	10.24	S7BA-06A2ALG
	10	8.3 - 14	X	X	507-1164-ND	15.00	13.88	13.13	S7BC-10A2ALG
	16	8.3 - 14	X	X	507-1165-ND	17.90	16.56	15.67	S7BC-16A2ALG

V7AH Series Non-Isolated POL DC/DC Converters

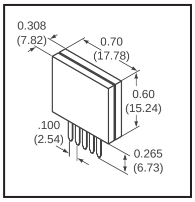

Electrical Specifications:

- Operating Temperature: -40°C ~ 85°C
- Output Voltage Trim: Voltage set-point adjustment with use of a resistor (see data sheet)

Features:

- Over Current/Short Circuit Protection (OCP/SCP)

Note: All specifications are typical at 25°C unless otherwise stated

Output Voltage (V out)	Output Current max. (A out)	Input Voltage Range (V in)	Remote On/Off	Input Under Voltage Lockout (UVLO)	Over Voltage Protection (OVP)	Digi-Key Part No.	Price Each 1	10	25	Bel Part No.
					Single Output Voltage					
1.2	12	3.0 - 5.5	X	X	—	507-1139-5-ND	15.30	14.16	13.39	V7AH-12F1200
1.5	12	3.0 - 5.5	X	X	—	507-1140-5-ND	15.30	14.16	13.39	V7AH-12F1500
1.8	12	3.0 - 5.5	X	X	—	507-1141-5-ND	15.30	14.16	13.39	V7AH-12F1800
2.5	12	3.6 - 5.5	X	X	—	507-1142-5-ND	15.30	14.16	13.39	V7AH-12F2500
3.3	12	4.5 - 5.5	X	X	—	507-1143-5-ND	15.30	14.16	13.39	V7AH-12F3300
5.0	1.5	3.0 - 3.6	—	—	X	507-1144-5-ND †	11.70	10.83	10.24	V7AH-02C50B0
12	0.8	3.0 - 3.6	—	—	X	507-1145-5-ND	12.50	11.57	10.94	V7AH-01CX200
15	0.6	3.0 - 3.6	—	—	X	507-1146-5-ND	12.50	11.57	10.94	V7AH-01CX500
					Adjustable Output Voltage					
0.9 - 2.5	7	3.0 - 3.6	X	X	—	507-1147-5-ND	13.90	12.86	12.17	V7AH-07C1A00
0.9 - 3.3	8	4.5 - 5.5	X	X	—	507-1148-5-ND	13.90	12.86	12.17	V7AH-08B1A00
0.9 - 3.63	2	10.8 - 13.2	X	X	—	507-1149-5-ND	6.70	6.20	5.87	V7AH-02A1A00
0.9 - 3.63	7	10.0 - 14.0	X	X	—	507-1150-5-ND	15.70	14.53	13.74	V7AH-07A1A00
					Wide Range Input Voltage					
1.2	3	4.5 - 32.0	X	X	—	507-1151-5-ND	13.90	12.86	12.17	V7AH-03H1200
1.5	3	4.5 - 32.0	X	X	—	507-1152-5-ND	13.90	12.86	12.17	V7AH-03H1500
1.8	3	4.5 - 32.0	X	X	—	507-1153-5-ND	13.90	12.86	12.17	V7AH-03H1800
2.5	3	4.5 - 32.0	X	X	—	507-1154-5-ND	13.90	12.86	12.17	V7AH-03H2500
3.3	3	4.5 - 32.0	X	X	—	507-1155-5-ND	13.90	12.86	12.17	V7AH-03H3300
5.0	3	8.0 - 32.0	X	X	—	507-1156-5-ND	13.90	12.86	12.17	V7AH-03H5000

† Burst/skip mode disabled

S7AH Series Non-Isolated POL DC/DC Converters

Electrical Specifications: • Operating Temperature: -40°C ~ 85°C • Output Voltage Trim: Voltage set-point adjustment with use of a resistor (see data sheet)

Features: • Over Current/Short Circuit Protection (OCP/SCP)
Note: All specifications are typical at 25°C unless otherwise stated

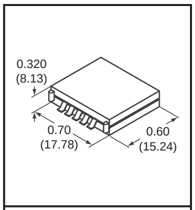

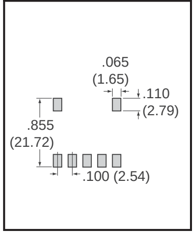

Output Voltage (V out)	Output Current max. (A out)	Input Voltage Range (V in)	Remote On/Off	Over Voltage Protection (OVP)	Input Under Voltage Lockout (UVLO)	Digi-Key Part No.	Cut Tape Price Each 1	10	25	Digi-Key Part No.	Tape and Reel Size	Pricing	Bel Part No.
						Single Output Voltage							
1.2	12	3.0 - 5.5	X	—	X	507-1122-5-ND	15.30	14.16	13.39	—	—	—	S7AH-12F1200
1.5	12	3.0 - 5.5	X	—	X	507-1123-5-ND	15.30	14.16	13.39	—	—	—	S7AH-12F1500
1.8	12	3.0 - 5.5	X	—	X	507-1124-5-ND	15.30	14.16	13.39	—	—	—	S7AH-12F1800
2.5	12	3.6 - 5.5	X	—	X	507-1125-5-ND	15.30	14.16	13.39	—	—	—	S7AH-12F2500
3.3	12	4.5 - 5.5	X	—	X	507-1126-5-ND	15.30	14.16	13.39	—	—	—	S7AH-12F3300
5.0	1.5	3.0 - 3.6	—	X	—	507-1127-1-ND †	11.70	10.83	10.24	507-1127-2-ND †	200	1755.00	S7AH-02C50BR
12	0.8	3.0 - 3.6	—	X	—	507-1128-5-ND	12.50	11.57	10.94	—	—	—	S7AH-01CX200
15	0.6	3.0 - 3.6	—	X	—	507-1129-5-ND	12.50	11.57	10.94	—	—	—	S7AH-01CX500
						Adjustable Output Voltage							
0.9 - 2.5	7	3.0 - 3.6	X	—	X	507-1130-1-ND	13.90	12.86	12.17	507-1130-2-ND	200	2085.00	S7AH-07C1A0R
0.9 - 3.3	8	4.5 - 5.5	X	—	X	507-1131-1-ND	13.90	12.86	12.17	507-1131-2-ND	200	2085.00	S7AH-08B1A0R
0.9 - 3.63	2	10.8 - 13.2	X	—	X	507-1132-5-ND	6.70	6.20	5.87	—	—	—	S7AH-02A1A00
0.9 - 3.63	7	10.0 - 14.0	X	—	X	507-1132-1-ND	15.70	14.53	13.74	507-1132-2-ND	200	2355.00	S7AH-07A1A0R
						Wide Range Input Voltage							
1.2	3	4.5 - 32.0	X	—	X	507-1133-5-ND	13.90	12.86	12.17	—	—	—	S7AH-03H1200
1.5	3	4.5 - 32.0	X	—	X	507-1134-5-ND	13.90	12.86	12.17	—	—	—	S7AH-03H1500
1.8	3	4.5 - 32.0	X	—	X	507-1135-5-ND	13.90	12.86	12.17	—	—	—	S7AH-03H1800
2.5	3	4.5 - 32.0	X	—	X	507-1136-5-ND	13.90	12.86	12.17	—	—	—	S7AH-03H2500
3.3	3	4.5 - 32.0	X	—	X	507-1137-1-ND	13.90	12.86	12.17	507-1137-2-ND	200	2085.00	S7AH-03H330R
5.0	3	8.0 - 32.0	X	—	X	507-1138-1-ND	13.90	12.86	12.17	507-1138-2-ND	200	2085.00	S7AH-03H500R

† Burst/skip mode disabled

ARTESYN TECHNOLOGIES

Universal Input Switch Mode Power Supplies

NLP150L Series—Single and Triple Outputs

110-150 Watt AC/DC

Specifications:

- **Dimensions (L x W x H):** 6.8" x 3.8" x 1.26" (172.72mm x 96.52mm x 32.00mm)
- **Input Voltage:** 90 ~ 264VAC • Harmonic Corrected

Output		Output		Output				
Voltage 1	Current Min./Max.	Voltage 2	Current Min./Max.	Voltage 3	Current Min./Max.	Digi-Key Part No.	Price Each	Artesyn Part No.
5.1	1.5A/22A	—	—	—	—	393-1043-ND	113.78	NLP150L-96S5
12V	0.6A/9.2A	+5.1V	0.5A/6A	+24V	0A/2.0A	393-1044-ND	113.78	NLP150L-96T658

NLP65 Series—
Single, Dual, and Triple Outputs

65 to 75 Watt AC/DC

Specifications:

- **Dimensions (L x W x H):** 5" x 3" x 1.26" (127.00mm x 76.20mm x 32.00mm)
- **Mating Connectors:** Housing Input: WM2101-ND; Housing Output: WM2104-ND; Contacts: WM2302-ND
- **Input Voltage:** 85 ~ 264VAC

Output		Output		Output				
Voltage 1	Current Min./Max.	Voltage 2	Current Min./Max.	Voltage 3	Current Min./Max.	Digi-Key Part No.	Price Each	Artesyn Part No.
+5V	0.2A/10.0A	—	—	—	—	393-1027-ND	62.88	NLP65-7605
+24V	0.1A/2.7A	—	—	—	—	393-1029-ND	62.88	NLP65-7624
+5V	0.2A/7.5A	+12V	0A/2.5A	-12V	0A/0.65A	393-1030-ND	62.88	NLP65-7608
+5V	0.2A/7.5A	+15V	0A/2.2A	-15V	0A/0.65A	393-1031-ND	62.88	NLP65-7610
+5V	0.2A/7.0A	+12V	0A/2.5A	—	—	393-1032-ND	62.88	NLP65-7629

NLP150L Series—Quad Output

110-150 Watt AC/DC

Specifications:

- **Dimensions (L x W x H):** 7.8" x 3.8" x 1.26" (198.12mm x 96.52mm x 32.00mm)
- **Input Voltage:** 90 ~ 264VAC
- Harmonic Corrected

Output		Output		Output		Output				
Volt. 1	Current Min./Max.	Volt. 2	Current Min./Max.	Volt. 3	Current Min./Max.	Volt. 4	Current Min./Max.	Digi-Key Part No.	Price Each	Artesyn Part No.
5.1V	1.5A/20A	+3.3V	0.5A/10A	+12V	0A/0.65A	12V iso	0A/2.0A	393-1041-ND	113.78	NLP150L-96Q5366

DC-DC Converters

CXA10 Series—
Single and Dual Output

10 Watt

Delivers single and dual output voltages covering 3.3V, 5V, 12V, ±5V, and ±12V.

Features:

- Fully compliant with ETS 300 386-1
- Approved to EN60950, UL1950, CSA C22.2 No. 950
- High demonstrated reliability with conservative component deratings

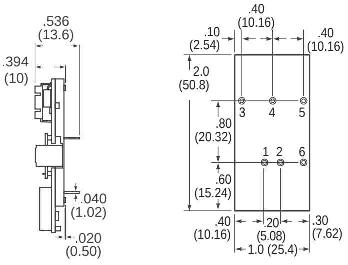

Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
18-75VDC	3.3V	2.0A	393-1018-ND	43.60	CXA10-48S3V3
18-75VDC	12V	0.83A	393-1020-ND	43.60	CXA10-48S12
18-75VDC	±5V	1.0A	393-1021-ND	47.96	CXA10-48D05
18-75VDC	±12V	0.41A	393-1022-ND	47.96	CXA10-48D12

BXB100 Series—Single Output 66-100 Watt Wide Input

Industry standard footprint (2.40 x 2.28 x 0.50 inches)

Features:

- Adjustable output voltage
- Separate case ground pin
- No minimum load required
- UL, VDE and CSA safety approvals

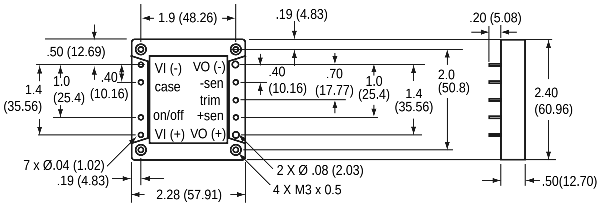

Input Voltage	Output Output Voltage	Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
18-36VDC	12V	8.33A	393-1010-ND	151.24	BXB100-24S12FLT

Typhoon™ SMT12F Series

The SMT12F series is a new range of ultra-compact non-isolated point-of-load converters for space-critical applications. A key advantage of the SMT12F is that it only needs the addition of five 22µF ceramic output capacitors to provide a complete full-specification, high efficiency POL solution with transient response capabilities that extend up to 300A/µs. The total board space required for the module and capacitors is a mere 300mm², facilitating easy co-location with the load.

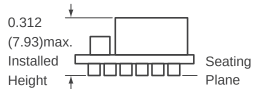

1 Trim: A 1%
2 Margin+
3 Remote ON/OFF
4 Margin-
5 V sense +
6 V sense -
7 +Vout
8 Ground
9 +Vin
10 Power Good

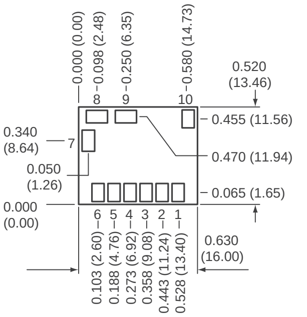

Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
3.0 ~ 5.5V	0.9 ~ 3.3V	12A	393-1147-ND	27.58	SMT12F-05W3V3

Typhoon™ SMT15F Series

The SMT15F-12 series are non-isolated DC/DC converters packaged in a surface-mount footprint giving designers a cost effective solution for conversion from a 12V source. The SMT15F-12 has an input range of 10.8V ~ 13.2V and offers an output voltage range from 1.0V ~ 1.8V with a 15A load, which allows for maximum design flexibility and a pathway for future upgrades.

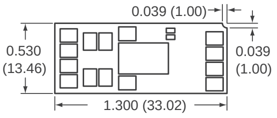

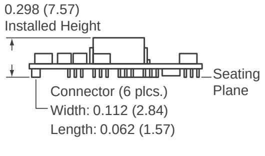

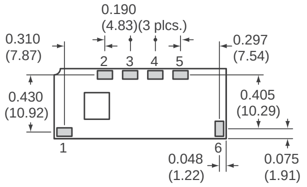

1 +Vin
2 GND
3 +Vout
4 Trim
5 +Vsense
6 Remote ON/OFF

Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
10.8 ~ 13.2V	1.0V	15A	393-1148-ND	34.48	SMT15F-12S1V0
10.8 ~ 13.2V	1.2V	15A	393-1149-ND	34.48	SMT15F-12S1V2
10.8 ~ 13.2V	1.5V	15A	393-1150-ND	34.48	SMT15F-12S1V5

(Continued)

SIL15C and SIL20C Series

The SIL15C and SIL20C Series are a new high density open frame non-isolated converters for space-sensitive applications. Each model has a wide input range (4.5V ~ 5.5V or 10.2V ~ 13.8V) and offer a wide 0.9V ~ 3.3V/5V output voltage range with a 15A/20A load.
An external resistor adjusts the output voltage from its pre-set value of 0.9V to any value up to the maximum allowed value for that model.

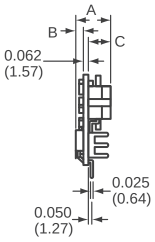

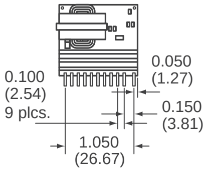

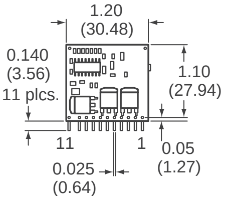

	SIL15C	SIL20C
A	0.40(10.186)	0.45(11.4)
B	0.075(1.91)	0.10(2.5)
C	0.26(6.704)	0.29(7.4)

1	Vout	6	Power Good
2	Vout	7	Ground
3	Vout	8	Ground
4	Trim	9	Reserved
5	Remote ON/OFF	10	Vin
		11	Vin

Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
4.5 ~ 5.5V	0.9 ~ 3.3V	15A	393-1140-ND	15.70	SIL15C-05SADJ-V
10.2 ~ 13.8V	0.9 ~ 5.0V	15A	393-1141-ND	15.70	SIL15C-12SADJ-V
4.5 ~ 5.5V	0.9 ~ 3.3V	20A	393-1142-ND	18.40	SIL20C-05SADJ-V
10.2 ~ 13.8V	0.9 ~ 5.0V	20A	393-1143-ND	18.40	SIL20C-12SADJ-V

SIL30C and SIL40C-Series

The ultra-wide output voltage trim range offers major advantages to users who select the SIL30C-12SADJ or SIL40C-12SADJ series. It is no longer necessary to purchase a variety of modules in order to cover different output voltages.
The output voltage can be trimmed in a range of 0.9V ~ 5.0V. When the SIL30C-12SADJ or SIL40C-12SADJ series converter leaves the factory the output has been adjusted to the default voltage of 0.9V.

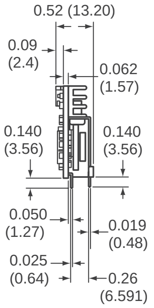

1	TRIM	11	**SIL40C Series:** Remote Sense +
2	No Pin	12	Vin
3	Ground	13	Vin
4	Power Good	14	Vin
5	Not Connected	15	Vout
6	Current Share	16	Vout
7	Ground	17	Ground
8	Ground	18	Vout
9	Remote ON/OFF	19	Ground
10	**SIL30C Series:** Remote Sense (GND)	20	Vout
		21	Ground
10	**SIL40C Series:** Remote Sense -	22	Vout
		23	Ground
11	**SIL30C Series:** Remote Sense(O/P)	24	Vout

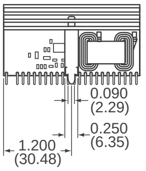

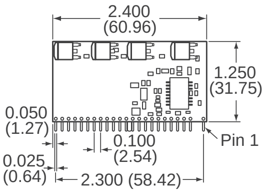

Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
10.2 ~ 13.8V	0.9 ~ 5V	30A	393-1145-ND	27.60	SIL30C-12SADJ-V
10.2 ~ 13.8V	0.9 ~ 5V	40A	393-1146-ND	28.90	SIL40C-12SADJ-V

Typhoon™ Eighth-Brick Series

This is a new high efficiency, open-frame, low profile, single board, isolated DC/DC converter series in an industry standard eight-brick footprint that provides up to 100W of output. The series delivers very high output current at low voltages, and excellent useable power for today's high performance applications. Full international safety approval including EN60950 VDE and UL/cUL60950, reduces compliance costs and time to market. The remote ON/OFF logic is negative.

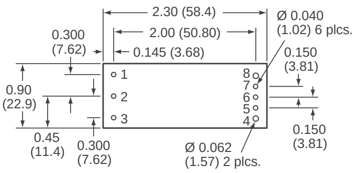

1	Vin+	5	Sense-
2	ON/OFF	6	Sense+
3	Vin-	7	Vout+
4	Vout-	8	Vout+

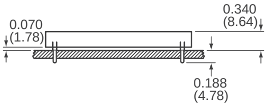

Input Voltage	Output Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
36 ~ 75V	1.2V	25A	393-1120-ND	83.25	LES25A48-1V2RE
36 ~ 75V	1.5V	25A	393-1122-ND	83.25	LES25A48-1V5RE
36 ~ 75V	1.8V	25A	393-1124-ND	83.25	LES25A48-1V8RE
36 ~ 75V	2.5V	20A	393-1126-ND	83.25	LES20A48-2V5RE
36 ~ 75V	3.3V	20A	393-1129-ND	83.25	LES20A48-3V3RE
36 ~ 75V	5.0V	10A	393-1132-ND	83.25	LES10A48-5V0RE
36 ~ 75V	1.2V	50A	393-1121-ND	96.81	LES50A48-1V2RE
36 ~ 75V	1.5V	40A	393-1123-ND	96.81	LES40A48-1V5RE
36 ~ 75V	1.8V	40A	393-1125-ND	96.81	LES40A48-1V8RE
36 ~ 75V	2.5V	25A	393-1127-ND	96.81	LES25A48-2V5RE
36 ~ 75V	2.5V	40A	393-1128-ND	109.15	LES40A48-2V5RE
36 ~ 75V	3.3V	30A	393-1131-ND	109.15	LES30A48-3V3RE
36 ~ 75V	5.0V	20A	393-1134-ND	109.15	LES20A48-5V0RE

Typhoon™ Quarter-Brick Series

Specifications: Dual Output: • Input voltage range: 48V nominal, 36 ~ 75VDC **Narrow Input IBC:** • Quarter-Brick, isolated, intermediate bus converter (IBC) • Input voltage range: Nominal 48VDC, ±10%VDC **Wide Input IBC:** • This series is a Quarter Brick, wide-input intermediate bus converter (IBC) • Input voltage range: 36 ~ 75VDC

Fig. 1

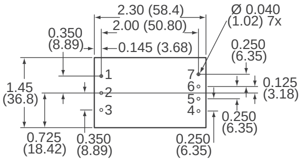

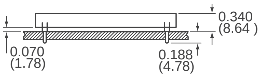

1	+Vin	5	O/P RTN
2	ON/OFF	6	Trim
3	-Vin	7	O/P 2
4	O/P 1		

Fig. 2

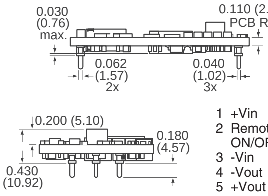

1 +Vin
2 Remote ON/OFF
3 -Vin
4 -Vout
5 +Vout

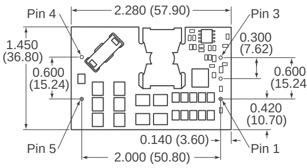

Fig. 3

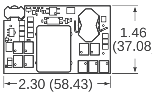

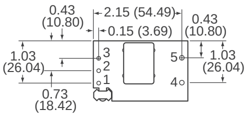

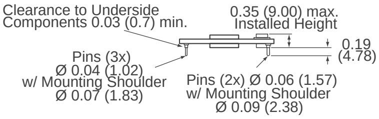

1 +Vin
2 Remote
3 -Vin
4 +Vout
5 -Vout

Output Voltage Nominal 1	Output Voltage Nominal 2	Input Voltage	Output Current (Max.)	Digi-Key Part No.	Price Each	Artesyn Part No.
Dual Output — Fig. 1						
1.2V	3.3V	36 ~ 75V	15A/15A	393-1136-ND	145.58	LQD30A48-3V3-1V2RE
1.5V	3.3V	36 ~ 75V	15A/15A	393-1137-ND	145.58	LQD30A48-3V3-1V5RE
1.8V	3.3V	36 ~ 75V	15A/15A	393-1138-ND	145.58	LQD30A48-3V3-1V8RE
2.5V	3.3V	36 ~ 75V	15A/15A	393-1139-ND	145.58	LQD30A48-3V3-2V5RE
3.3V	5.0V	36 ~ 75V	15A/10A	393-1135-ND	145.58	LQD25A48-5V0-3V3RE
Narrow Input IBC — Fig. 2						
12V	—	43.2 ~ 52.8V	20A	393-1152-ND	72.93	TQN20A48S12-R
12V	—	43.2 ~ 52.8V	25A	393-1153-ND	72.93	TQN25A48S12-R
Wide Input IBC — Fig. 3						
12V	—	36 ~ 75V	14A	393-1154-ND	90.84	TQW14A-48S12-R

Dimensions in Inches (mm)

SMT05E and SMT15E Series

Non-isolated DC/DC converters packaged in a surface-mount footprint giving designers a cost effective solution for conversion. Ideal solution where board space is at a premium or tighter card pitch is required. The ultra-wide voltage trim range offers major advantages to users. It is no longer necessary to purchase a variety of modules in order to cover different output voltages.

SMTxxE-12W3V3:
- Trim range: 0.8-3.63V • Set at default voltage of 0.8V

SMT05E-05W3V3:
- Trim range: 0.75-3.63V • Set at default voltage of 0.75V • When Vin ≥ 4.5V, then Vout can be adjusted from 0.75-3.63V • When Vin < 4.5V, then Vout can be adjusted from 0.75-2.75V

SMT15E-05W3V3:
- Trim range: 0.8-3.63V • Set at default voltage of 3.3V • When Vin ≥ 4.5V, then Vout can be adjusted from 0.8-3.63V • When Vin < 4.5V, then Vout can be adjusted from 0.8-2.75V

Fig. 1

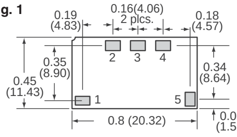

1. Vin
2. Ground
3. Trim
4. Vout
5. Remote ON/OFF

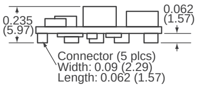

Fig. 2

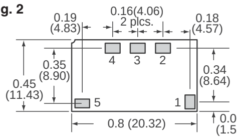

1. Remote ON/OFF
2. Vout
3. Trim
4. Ground
5. +Vin

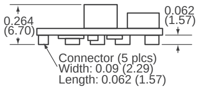

Fig. 3

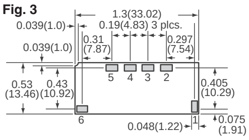

1. Remote ON/OFF
2. Remote Sense +
3. Trim
4. +Vout
5. Ground
6. +Vin

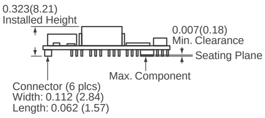

Fig.	Input Voltage (VDC)	Output Voltage (V)	Output Current (A) Max.	Output Power (W) Max.	Digi-Key Part No.	Price Each	Artesyn Part No.
1	10-14	0.8-3.63	5	16.5	393-1053-ND	17.14	SMT05E-12W3V3
2	3.0-5.5	0.75-3.63	5	18.15	393-1089-ND	17.14	SMT05E-05W3V3
3	10-14	0.8-3.63	15	49.5	393-1056-ND	27.60	SMT15E-12W3V3
	3.0-5.5	2.5	15	41.25	393-1087-ND	27.60	SMT15E-05S2V5
	4.5-5.5	3.3	15	54.45	393-1088-ND	27.60	SMT15E-05S3V3

PTH Series

The next generation series of non-isolated DC/DC converters offering some of the most advanced POL features available in the industry. The primary new feature provides for sequencing between multiple modules, a function, which is becoming a necessity for powering advanced silicon including DSP's, FPGA's and ASIC's requiring controlled power-up and power-down.

Dimensions in Inches (mm)

Fig. 1

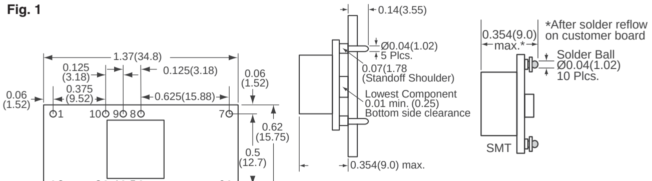

1. Ground
2. Vin
3. Inhibit†
4. Vo Adjust
5. Vo Sense
6. Vout
7. Ground
8. Track
9. Margin Down
10. Margin Up

A 470µF electrolytic input capacitor is required for proper operation (560µF on PTH12010 series).

† Denotes negative logic: Open = Normal operation Ground = Function active

Fig. 2

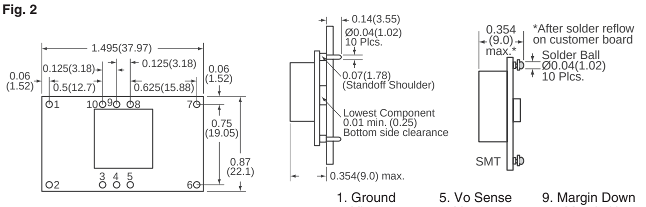

1. Ground
2. Vin
3. Inhibit†
4. Vo Adjust
5. Vo Sense
6. Vout
7. Ground
8. Track
9. Margin Down
10. Margin Up

A 1000µF electrolytic input capacitor is required for proper operation (560µF on PTH12020 series).

† Denotes negative logic: Open = Normal operation Ground = Function active

Fig. 3

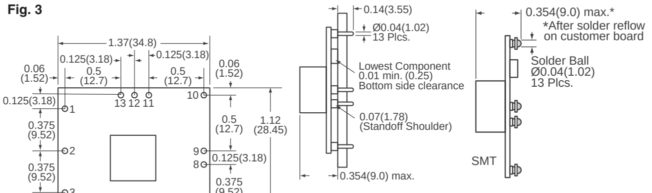

1. Ground
2. Vin
3. Ground
4. Inhibit†
5. Vo Adjust
6. Vo Sense
7. Ground
8. Vout
9. Vout
10. Ground
11. Track
12. Margin Down
13. Margin Up

A 1500µF electrolytic input capacitor is required for proper operation (560µF on PTH12030 series).

† Denotes negative logic: Open = Normal operation Ground = Function active

Fig. 4

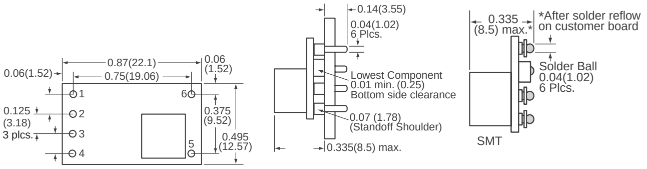

A 100µF electrolytic input capacitor is required for proper operation.

1. Ground
2. Track
3. Vin
4. Inhibit†
5. Vo Adjust
6. Vout

† Denotes negative logic: Open = Normal operation Ground = Function active

Fig. 5

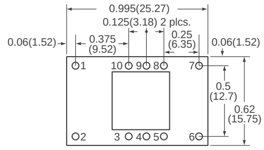

1. Ground
2. Vin
3. Inhibit†
4. Vo Adjust
5. Vo Sense
6. Vout
7. Ground
8. Track
9. Margin Down
10. Margin Up

† Denotes negative logic: Open = Normal operation Ground = Function active

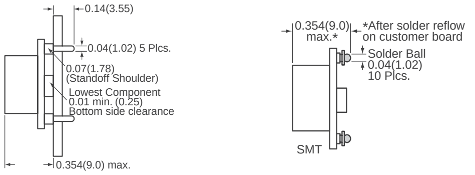
0.14(3.55)
0.04(1.02) 5 Plcs.
0.07(1.78) (Standoff Shoulder)
Lowest Component 0.01 min. (0.25) Bottom side clearance
0.354(9.0) max.
0.354(9.0) max.*
*After solder reflow on customer board
Solder Ball 0.04(1.02) 10 Plcs.
SMT

A 330µF electrolytic input capacitor is required for proper operation (560µF on PTH12060 series).

M

Fig.	Input Voltage (VDC)	Output Voltage (V)	Output Current (A) Max.	Output Power (W) Max.	Digi-Key Part No.	Price Each	Artesyn Part No.
1	2.95-3.65	0.8-2.5	15	37.5	393-1094-ND	23.12	PTH03010WAH
	4.5-5.5	0.8-3.6	15	54	393-1104-ND	22.00	PTH05010WAH
	10.8-13.2	1.2-5.5	12	66	393-1114-ND	22.00	PTH12010WAH
2	2.95-3.65	0.8-2.5	22	55	393-1096-ND	31.88	PTH03020WAH
					393-1097-ND	31.88	PTH03020WAS
	4.5-5.5	0.8-3.6	22	79.2	393-1107-ND	31.88	PTH05020WAS
3	2.95-3.65	0.8-2.5	30	75	393-1098-ND	42.72	PTH03030WAH
					393-1099-ND	42.72	PTH03030WAS
	4.5-5.5	0.8-3.6	30	108	393-1109-ND	42.72	PTH05030WAS

Fig.	Input Voltage (VDC)	Output Voltage (V)	Output Current (A) Max.	Output Power (W) Max.	Digi-Key Part No.	Price Each	Artesyn Part No.
4	2.95-3.65	0.8-2.5	6	15	393-1091-ND	13.10	PTH03050WAS
	4.5-5.5	0.8-3.6	6	21.6	393-1101-ND	13.10	PTH05050WAS
	10.8-13.2	1.2-5.5	6	33	393-1111-ND	13.10	PTH12050WAS
5	2.95-3.65	0.8-2.5	10	25	393-1092-ND	18.60	PTH03060WAH
					393-1093-ND	18.60	PTH03060WAS
	4.5-5.5	0.8-3.6	10	36	393-1102-ND	18.60	PTH05060WAH
					393-1103-ND	18.60	PTH05060WAS
	10.8-13.2	1.2-5.5	10	55	393-1112-ND	18.60	PTH12060WAH
					393-1113-ND	18.60	PTH12060WAS

DC-DC Converters

Single, Dual and Triple Output

Fig. 1

NV Series: Low profile, single and dual output, DC/DC converters intended for SMT placement and reflow soldering. The product provides on-board conversion for a wide range of standard telecom and datacom input voltages to isolated low output voltages. **Features:** • Wide input range • Wide output range • Operating temperature to 110°C • Extremely small footprint

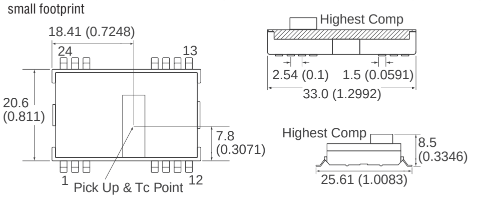

1. +Vin
2. -Vin
3. -Vin
4. No Pin
5. No Pin
6. No Pin
7. No Pin
8. No Pin
9. NC
10. NC
11. -Vo
12. -Vo
13. +Vo
14. +Vo
15. +Vo
16. -Vo
17. No Pin
18. No Pin
19. No Pin
20. No Pin
21. No Pin
22. +Vin
23. +Vin
24. -Vin

Fig. 2

DSP1N5S Series: • Up to 1 watt unregulated output power • Single in-line package • Four terminal operation • Efficiencies to 75% • 350KHz fixed frequency operation • 700V isolation • -25°C ~ 85°C operation

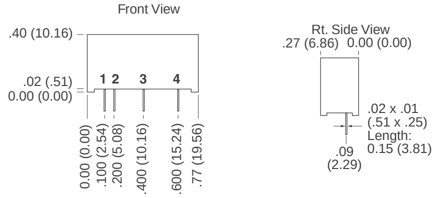

1. +Input
2. –Input
3. -Out
4. +Out

Output filtering is required for operation 10µf min.

Fig. 3

RNS Series: Industry standard, 2" x 1" size, low profile, single output, DC/DC converters intended for SMT placement and reflow soldering. Provides on-board conversion of a wide range of input voltages to isolated low output voltages without the need for any additional cooling. **Features:** • Synchronization function • Low profile – 8.5 mm height • Input/output isolation: 1500VDC • Wide input range • Output overcurrent protection • Output voltage trim adjust, positive or negative

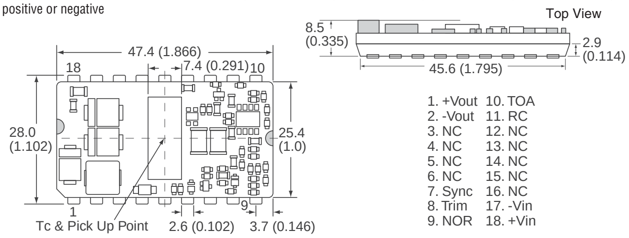

1. +Vout
2. -Vout
3. NC
4. NC
5. NC
6. NC
7. Sync
8. Trim
9. NOR
10. TOA
11. RC
12. NC
13. NC
14. NC
15. NC
16. NC
17. -Vin
18. +Vin

Fig. 4

NDS Series: • Low conducted and radiated EMI • Output overcurrent protection • Remote shutdown (primary referenced) • Output voltage trim adjust, positive or negative • Small PCB footprint

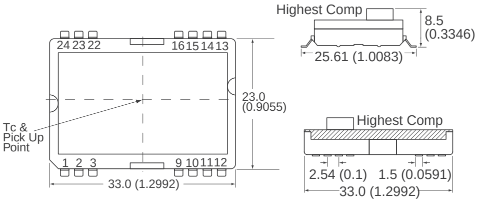

1. Shutdown
2. -Vin
3. NC
4. No Pin
5. No Pin
6. No Pin
7. No Pin
8. No Pin
9. NC
10. NC
11. NC
12. Trim
13. +Vout
14. -Vout
15. NC
16. NC
17. No Pin
18. No Pin
19. No Pin
20. No Pin
21. No Pin
22. NC
23. +Vin
24. NC

Fig. 5

SIS03V Series: Thru-hole mount, low cost, non-isolated single output DC/DC converters. Provide point of load conversion of a single 5V input voltage into a regulated low output voltage with up to 3A of output current. Remote ON/OFF and output trim functions. High efficiency, low cost, high reliability and board-saving vertical mounting option make these converters excellent choice for powering ASICs in distributed power architecture.

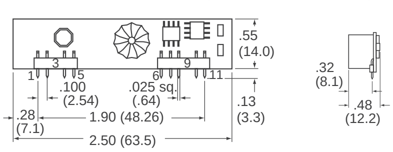

1 Vo+
2 Vo+
3 Vo+ sense (option)
4 Vo+
5 Gnd
6 Gnd
7 Vin+
8 Vin+
9 No pin
10 Trim
11 On/Off

Fig. 6

RDS Series: • Low Profile SMT design • Input/output isolation: 1500Vdc • High current density • Operating temperature to 100°C • Output voltage trim adjust, positive, or negative • 8.5mm height

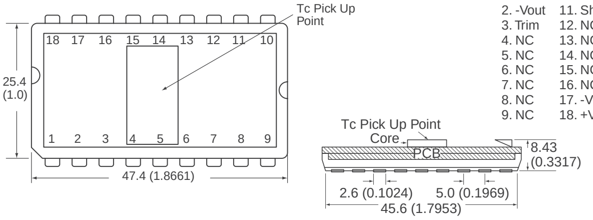

1. +Vout
2. -Vout
3. Trim
4. NC
5. NC
6. NC
7. NC
8. NC
9. NC
10. NC
11. Shutdown
12. NC
13. NC
14. NC
15. NC
16. NC
17. -Vin
18. +Vin

Fig. 7

RFS Series: Low profile, single output, DC/DC converters intended for SMT placement and reflow soldering. The product provides on-board conversion of standard telecom and datacom input voltages to isolated low output voltages **Features:** • Low profile SMT design • Input/output isolation: 1500VDC • Operating temperature to 100°C • Output voltage trim adjust, positive or negative • Provides on-board conversion of standard telecom and datacom input voltages to isolated low output voltages

1. +Vout
2. -Vout
3. Trim
4. NC
5. NC
6. NC
7. NC
8. NC
9. NC
10. NC
11. Shutdown
12. NC
13. NC
14. NC
15. NC
16. NC
17. -Vin
18. +Vin

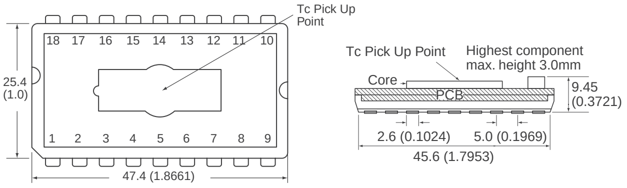

Fig. 8

SIS07V: Thru-hole mount, low-cost, non isolated single-output DC/DC converters. The products provide point of load conversion of a single 5V input voltage into a regulated low output voltage with up to 7A of output current. The converters also feature remote ON/OFF and output trim functions. High efficiency, low cost, high reliability and board-saving vertical mounting option make these converters excellent choice for powering ASICs in distributed power architecture.

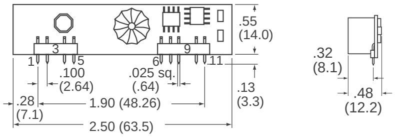

1 Vo+
2 Vo+
3 Vo+ sense (option)
4 Vo+
5 Gnd
6 Gnd
7 Vin+
8 Vin+
9 No pin
10 Trim
11 On/Off

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
				Single Output					
1	3.30	0.9	9-36	179-2188-ND	48.00	44.00	40.00	36.00	NVS0.9CE-M6
	3.30	0.9	18-75	179-2187-ND	48.00	44.00	40.00	36.00	NVS0.9EE-M6
	5.0	0.7	18-75	179-2189-ND	48.00	44.00	40.00	36.00	NVS0.7EG-M6
2	5	0.15	4.5-5.5	179-1068-ND	16.50	16.00	15.50	14.25	DSP1N5S5
	7	0.14	4.5-5.5	179-1069-ND	16.50	16.00	15.50	14.25	DSP1N5S7
	12	0.08	4.5-5.5	179-1070-ND	16.50	16.00	15.50	14.25	DSP1N5S12
	14	0.07	4.5-5.5	179-1071-ND	16.50	16.00	15.50	14.25	DSP1N5S14
	15	0.065	4.5-5.5	179-1072-ND	16.50	16.00	15.50	14.25	DSP1N5S15
	17	0.06	4.5-5.5	179-1073-ND	16.50	16.00	15.50	14.25	DSP1N5S17
3	3.30	1.5	18-72	179-2209-ND	44.00	41.00	37.00	34.00	RNS01EE-M6
	3.30	3.0	38-75	179-2210-ND	44.00	41.00	37.00	34.00	RNS03ZE-M6
	5.0	2.0	38-75	179-2211-ND	44.00	41.00	37.00	34.00	RNS02ZG-M6
4	2.50	3.0	36-75	179-2192-ND	51.00	46.00	42.00	39.00	NDS03ZD-M6
	3.30	3.0	36-75	179-2191-ND	51.00	46.00	42.00	39.00	NDS03ZE-M6
	5.0	2.0	36-75	179-2190-ND	51.00	46.00	42.00	39.00	NDS02ZG-M6
5	1.20	3.0	4.5-5.5	179-2197-ND	27.00	24.00	22.00	21.00	SIS03VY
	1.50	3.0	4.5-5.5	179-2193-ND	25.00	22.00	20.00	19.00	SIS03VA
	2.50	3.0	4.5-5.5	179-2195-ND	25.00	22.00	20.00	19.00	SIS03VD
	3.30	3.0	4.5-5.5	179-2196-ND	25.00	22.00	20.00	19.00	SIS03VE
6	3.30	5.0	36-75	179-2206-ND	44.00	41.00	37.00	34.00	RDS05ZE-M6
	5.0	4.0	36-75	179-2204-ND	44.00	41.00	37.00	34.00	RDS04ZG-M6
7	2.50	6.0	36-75	179-2202-ND	66.00	60.00	55.00	50.00	RFS06ZD-M6
	3.30	6.0	36-75	179-2203-ND	66.00	60.00	55.00	50.00	RFS06ZE-M6
8	1.50	7.0	4.5-5.5	179-2198-ND	27.00	24.00	22.00	21.00	SIS07VA
	1.80	7.0	4.5-5.5	179-2199-ND	27.00	24.00	22.00	21.00	SIS07VB
	2.50	7.0	4.5-5.5	179-2200-ND	27.00	24.00	22.00	21.00	SIS07VD
	3.30	7.0	4.5-5.5	179-2201-ND	27.00	24.00	22.00	21.00	SIS07VE
9	5	1	9-27	179-1005-ND	73.25	70.25	67.25	64.75	DFA6U12S5
	5	1	20-60	179-1008-ND	73.25	70.25	67.25	64.75	DFA6U48S5
	12	0.5	9-27	179-1006-ND	73.25	70.25	67.25	64.75	DFA6U12S12
	12	0.5	20-60	179-1009-ND	73.25	70.25	67.25	64.75	DFA6U48S12
	15	0.4	9-27	179-1007-ND	73.25	70.25	67.25	64.75	DFA6U12S15
10	5	1.2	3.5-16	179-1001-ND	64.00	61.50	58.75	56.75	DFC6U5S5
	5.2	1.2	3.5-16	179-1002-ND	64.00	61.50	58.75	56.75	DFC6U5S5.2
	12	0.5	3.5-16	179-1003-ND	64.00	61.50	58.75	56.75	DFC6U5S12
	15	0.4	3.5-16	179-1004-ND	64.00	61.50	58.75	56.75	DFC6U5S15
11	5	2	9-18	179-1011-ND	71.50	70.00	68.25	66.75	DFC10E12S5
	5	2	18-36	179-1012-ND	71.50	70.00	68.25	66.75	DFC10E24S5
	12	0.9	9-18	179-1014-ND	71.50	69.93	68.35	66.77	DFC10E12S12
	12	0.9	18-36	179-1016-ND	71.50	70.00	68.25	66.75	DFC10E24S12
	15	0.7	9-18	179-1015-ND	71.50	69.93	68.35	66.77	DFC10E12S15
	15	0.7	18-36	179-1017-ND	71.50	70.00	68.25	66.75	DFC10E24S15

(Continued)

Single, Dual and Triple Output *(Cont.)*

Fig. 9

DFA6UxxS Series: • Up to 6 watts of output power • Overcurrent protection • Efficiencies to 83% • Low input to output capacitance • 700V Isolation, input to output • Ultra-wide input range (3:1)

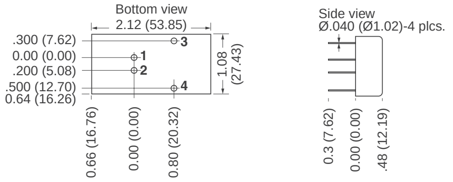

1. +Input
2. – Input
3. +Out
4. –Out

Fig. 10

DFC6U5S Series: • Ultra-wide 3.5-16 volt input range • Input filtered • 6 watts of output power • Efficiencies to 77% • 700V Isolation • Low input to output capacitance and Ultra-wide input range (4:1)

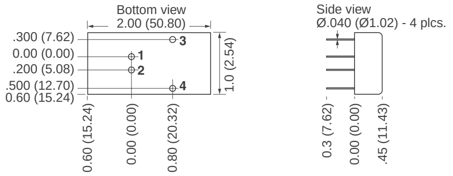

1. +Input
2. –Input
3. +Out
4. –Out

Fig. 11

DFC10E Series: • High power density, up to 11 watts per cubic inch (0.67 watts per cm^3) • Efficiencies to 83% (lower for 3.3V) • Low input to output capacitance • 700V Isolation (1544V for 48V converters) • Continuous overcurrent protection • Five-sided shielded copper case • Extended input range (2:1) **DFC10U Series:** • High power density, up to 11 watts per cubic inch • Efficiencies to 79% • Fully isolated, fully filtered design • Greater than 700V Isolation • Overcurrent protection • Five-sided shielded copper case • Ultra-wide range input (4:1)

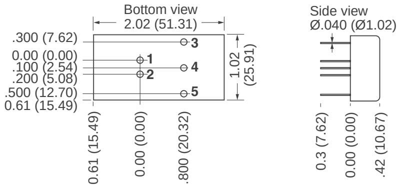

DFC10E Series
1. +Input
2. –Input
3. +Out
4. No Pin
5. –Out

DFC10U Series
1. +Input
2. –Input
3. +Out
4. Common
5. –Out

Fig. 12

QBC Series: High density bus converters convert a worldwide telecom bus voltage of 36 to 75VDC to a 12V bus at 11A. **Features:** • Low profile – 11mm height • Low conducted and radiated EMI • Output overcurrent protection • Output overvoltage protection • Remote Sense • Remote on/off (primary referenced), positive or negative logic

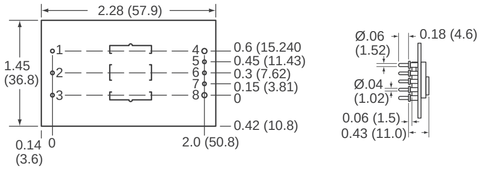

1. -Vin
2. On/Off
3. +Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

Fig. 13

QLS Series: Highly efficient, cost effective, low profile, single-output DC/DC converters in an industry standard, quarter-brick footprint. **Applications:** • Distributed power architectures • Telecommunications equipment • LAN/WAN • Data processing **Features:** • Low profile – 0.390" (9.9 mm) • Input/output isolation: 1500VDC, basic insulation

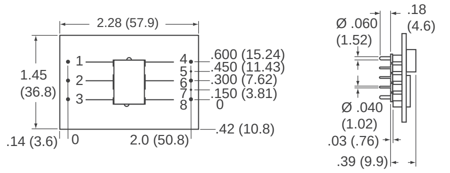

1 -Vin
2 On/Off
3 +Vin
4 -Vout
5 -Sense
6 Trim
7 +Sense
8 +Vout

Fig. 14

QHS Series: • Low Profile – 12.7mm height • Negative logic • Output voltage trim adjust

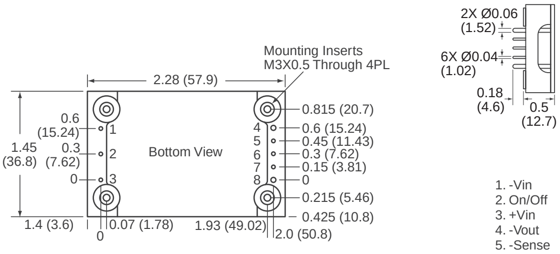

1. -Vin
2. On/Off
3. +Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

Fig. 15

DFC15U48S Series: • High power density, up to 11 watts per cubic inch (0.67 watts per cm^3) • Efficiencies to 83% (lower for 3.3V) • Low input to output capacitance • 700V Isolation (1544V for 48V converters) • Continuous overcurrent protection • 3.3 Volt output available • Five-sided shielded copper case • Extended input range (2:1) **DFC15U48D Series:** • Remote On/Off and Trim • Overcurrent and overtemperature protected • Water washable case • Efficiencies to 82% • 1544V Isolation • Ultra-wide range input (>3:1)

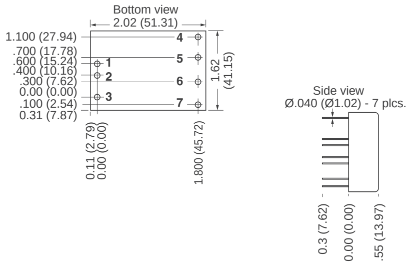

DFC15U48S Series
1. +Input
2. –Input
3. On/Off
4. No Pin
5. +Output
6. –Output
7. Trim

DFC15U48D Series
1. +Input
2. –Input
3. On/Off
4. +Output
5. Common
6. –Output
7. Trim

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
11	5	2	36-72	179-1013-ND	71.50	70.00	68.25	66.75	DFC10E48S5
12	12.0	11.0	36-75	179-2223-ND	48.00	47.00	46.00	45.00	QBC11ZH-NT
13	1.50	30.0	36-75	179-2228-ND	107.00	101.00	95.01	92.01	QLS30ZA-NT
	1.80	30.0	36-75	179-2229-ND	107.00	101.00	95.01	92.01	QLS30ZB-NT
	2.50	15.0	36-75	179-2225-ND	80.00	71.00	66.00	61.01	QLS15ZD-NT
	3.30	15.0	36-75	179-2226-ND	72.00	66.00	60.00	55.00	QLS15ZE-NT
	5.0	12.0	36-75	179-2224-ND	80.00	71.00	66.00	61.01	QLS12ZG-NT
	5.0	20.0	36-75	179-2227-ND	107.00	101.00	95.01	92.01	QLS20ZG-NT
14	1.50	50.0	36-75	179-2234-ND	135.00	118.00	105.00	98.00	QHS50ZA-NT
	1.80	40.0	36-75	179-2231-ND	135.00	118.00	105.00	98.00	QHS40ZB-NT
	2.50	40.0	36-75	179-2232-ND	135.00	118.00	105.00	98.00	QHS40ZD-NT
	3.30	40.0	36-75	179-2233-ND	135.00	118.00	105.00	98.00	QHS40ZE-NT
16	5	2	3-16	179-1053-ND	85.50	82.00	78.75	75.50	DGP12U5S5
	5	4	9-18	179-1033-ND	105.50	101.50	96.00	91.00	DFA20E12S5
	5	4	18-36	179-1037-ND	105.50	101.50	96.00	91.00	DFA20E24S5
	12	1	3-16	179-1054-ND	85.50	82.00	78.75	75.50	DGP12U5S12
	12	1.7	9-18	179-1034-ND	105.50	101.50	96.00	91.00	DFA20E12S12
	15	1.4	9-18	179-1035-ND	105.50	101.50	96.00	91.00	DFA20E12S15
	15	1.4	18-36	179-1039-ND	105.50	101.50	96.00	91.00	DFA20E24S15
15	5	3	20-60	179-1027-ND	97.75	93.50	89.76	86.25	DFC15U48S5
18	3.3	3	18-36	179-2122-ND	66.00	62.75	59.50	56.01	LES010YE

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
18	5	3	18-36	179-2124-ND	66.00	62.75	59.50	56.01	LES015YG
	5	3	36-75	179-2130-ND	67.00	63.75	60.50	57.25	LES015ZG-3
	5	3	36-75	179-2131-ND	67.00	63.75	60.50	57.25	LES015ZG-3N
	12	1.25	18-36	179-2126-ND	66.00	62.75	59.50	56.01	LES015YH
	12	1.25	36-75	179-2132-ND	67.00	63.75	60.50	57.25	LES015ZH-3
	15	1	18-36	179-2128-ND	66.00	62.75	59.50	56.01	LES015YJ
19	3.3	4	36-72	179-2135-ND	72.50	69.25	65.00	62.01	IES013ZE-A
	5	4	18-36	179-2134-ND	72.50	69.25	65.00	62.01	IES020YG-A
	5	4	36-72	179-2136-ND	72.50	69.25	65.00	62.01	IES020ZG-A
20	5	6	18-36	179-2137-ND	83.00	80.50	78.25	74.75	HAS030YG-AN
	5	10	18-36	179-2139-ND	100.25	97.75	94.51	88.75	HAS050YG-AN
	12	4.2	18-36	179-2140-ND	100.25	97.75	94.51	88.75	HAS050YH-AN
21	1.80	40.0	36-75	179-2249-ND	135.00	118.00	105.00	98.00	HLS40ZB-NT
	2.50	30.0	36-75	179-2246-ND	135.00	118.00	105.00	98.00	HLS30ZD-NT
	3.30	30.0	36-75	179-2247-ND	135.00	118.00	105.00	98.00	HLS30ZE-NT
	5.0	30.0	36-75	179-2248-ND	135.00	118.00	105.00	98.00	HLS30ZG-NT
22	12.0	42.0	36-75	179-2251-ND	123.00	121.00	119.00	116.01	FBC42ZH-NT
23	1.50	30.0	36-75	179-2218-ND	86.50	85.00	83.00	81.50	Q48T30015-NBBO
	1.80	30.0	36-75	179-2219-ND	86.50	85.00	83.00	81.50	Q48T30018-NBBO
	2.50	30.0	36-75	179-2220-ND	86.50	85.00	83.00	81.50	Q48T30025-NBBO
	3.30	30.0	36-75	179-2221-ND	86.50	85.00	83.00	81.50	Q48T30033-NBBO

(Continued)

Single, Dual and Triple Output *(Cont.)*

Fig. 16

DFA20ExxS Series: • Remote On/Off and Trim • Overcurrent protection and thermal shutdown • Efficiencies to 83% • 700V Isolation up to 1544V on 48V converters • Power density up to 11 watts per cubic inch • Five-sided shielded case • Extended range input (2:1)
DFA20ExxD Series: • Remote On/Off and Trim • Water washable case • Overcurrent protection and thermal shutdown • Efficiencies to 85% • Low input to output capacitance • 700V to 1544V isolation • 5-sided shielded case • Extended range input (2:1)
DGP12U5S Series: • Up to 12 watts output power • Five-sided shielded isolated copper case • Ultra-wide 3.5 ~ 16 volt input range • Efficiencies to 82% • Fully isolated and filtered • 700V isolation • Remote On/Off and Trim
DGP12U5D Series: • Remote On/Off and Trim • Five-sided shielded copper case • Typical efficiencies up to 78% • Fully isolated and filtered • 700V isolation • Ultra-wide range input (4:1)

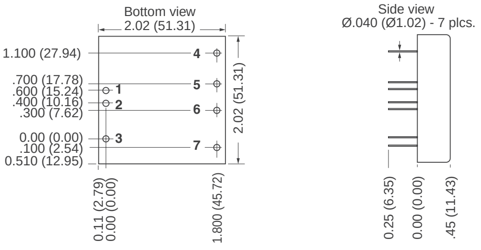

DFA20ExxS and DGP12U5S Series
1. +Input 3. On/Off 5. +Output 7. Trim
2. –Input 4. No Pin 6. –Output

DFA20ExxD and DGP12U5D Series
1. +Input 3. On/Off 5. Common 7. Trim
2. –Input 4. +Output 6. –Output

Fig. 17

HWD Series: Onboard conversion of standard telecom and datacom input voltages into two isolated low-voltage outputs. **Features:** • Ouput overcurrent protection (self restart) • Output overvoltage protection (self restart) • Over temperature protection (self restart) • Output voltage trim adjust, independent for each output
HHD Series: • Output voltage tracking • Output overcurrent protection • Output overvoltage protection • Over temperature protection

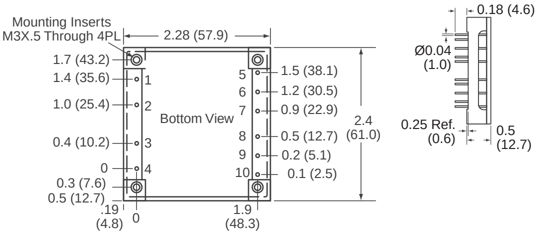

1. -Vin
2. Case
3. On/Off
4. +Vin
5. +Vo2
6. +Vo2 Rtn
7. Trim 2
8. +Vol 1
9. +Vol1 Rtn
10. Trim 1

Fig. 18

LES Series - 15W Single Output: Up to 1500VDC isolation • Short circuit and over temp. protection • Six-sided shielding • Available with optional enable and voltage trim pins • Water washable • Remote shutdown • 24V and 48V inputs • Industry standard pkg. • ±10% minimum amperage output current • ±10% voltage trim range

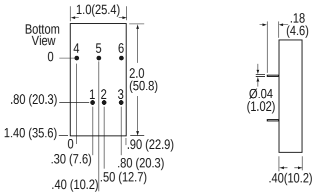

1. +V In
2. –V In
3. No Pin
4. +V Out
5. No Pin
6. –V Out

Fig. 19

IES Series - 13-20W Single Output: Ultra high efficiency • 1500V isolation • Output voltages of 5V and below and up to 20W output power • Remote shutdown • On board functions include over volt. protection (OVP) and under voltage lock-out (UVLO) • 24V and 48V input • Output current 10% min. • Open frame pkg or 6-sided case • Water washable

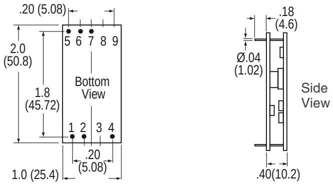

1. +V In
2. –V In
3. No Pin
4. Shutdown
5. +V Out
6. –V Out
7. Trim
8. No Pin
9. No Pin

Fig. 20

HAS Series - 20-30W Single Output: • Up to 30W of output power • ±10% output volt. trim range • Remote shutdown • Advanced open frame technology • Water washable • UL 1950, CSA22.2-950, EN60950 safety (consult factory for conditions) case temp., operating range -40°C ~ 100°C

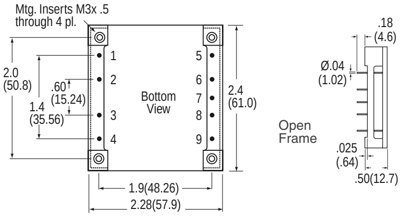

1. –V In
2. Case
3. On/Off
4. +V In
5. –V Out
6. –Sense
7. Trim
8. + Sense
9. +V Out

Fig. 21

HLS Series: • Output overcurrent protection • Output overvoltage protection • Overtemperature protection • Remote on/off (primary referenced), positve logic
HHS Series: • Low profile (12.7mm) • Output overcurrent protection • Output overvoltage protection • Over temperature protection • Remote On/Off (primary referenced), positive logic

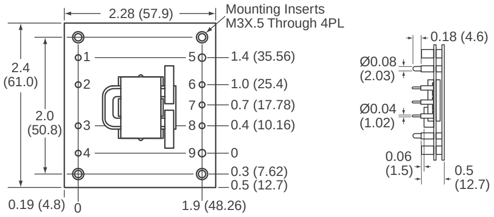

1. -Vin
2. Case Pin
3. On/Off
4. +Vin
5. -Vo
6. -Sense
7. Trim
8. +Sense
9. +Vo

Fig. 22

FBC Series: High density Bus Converters convert a worldwide telecom bus voltage of 36 ~ 75VDC to a 12V bus at 42A. The output is ideal for powering non-isolated, point-of-load converters such as synchronous buck converters used commonly in Intermediate Bus Architectures.

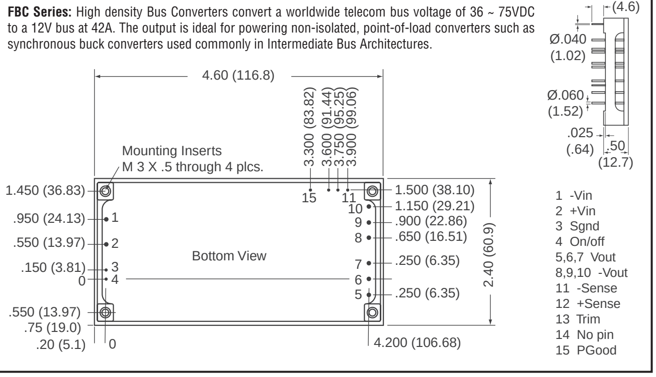

1 -Vin
2 +Vin
3 Sgnd
4 On/off
5,6,7 Vout
8,9,10 -Vout
11 -Sense
12 +Sense
13 Trim
14 No pin
15 PGood

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
24	1.20	30.0	36-75	179-2222-ND	109.40	107.50	104.98	103.08	QL48T30012-NBBO
25	1.20	15.0	36-75	179-2217-ND	64.00	62.50	61.00	60.00	SQ48T15012-NBBO
	1.50	15.0	36-75	179-2213-ND	64.00	62.50	61.00	60.00	SQ48T15015-NBBO
	1.80	15.0	36-75	179-2214-ND	64.00	62.50	61.00	60.00	SQ48T15018-NBBO
	2.50	15.0	36-75	179-2215-ND	64.00	62.50	61.00	60.00	SQ48T15025-NBBO
	3.30	15.0	36-75	179-2216-ND	64.00	62.50	61.00	60.00	SQ48T15033-NBBO
	5.0	10.0	36-75	179-2212-ND	64.00	62.50	61.00	60.00	SQ48T10050-NBBO
27	3.3	15	34-75	179-2143-ND	117.50	114.00	110.50	108.26	HBS050ZE-ANT
	3.3	30	34-75	179-2153-ND	133.50	131.25	129.01	126.50	HBS100ZE-ANT
	5	20	18-36	179-2150-ND	133.50	131.25	129.01	126.50	HBS100YG-ANT
	5	10	34-75	179-2144-ND	117.50	114.00	110.50	108.26	HBS050ZG-ANT
	5	20	34-75	179-2154-ND	133.50	131.25	129.01	126.50	HBS100ZG-ANT
	12	8.30	18-36	179-2151-ND	133.50	131.25	129.01	126.50	HBS100YH-AN
	12	25.0	36-75	179-2239-ND	83.00	81.00	79.00	77.01	HBC25ZH-NT
	15	3.3	18-36	179-2141-ND	117.50	114.00	110.50	108.26	HBS050YJ-AN

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
27	5	30	18-36	179-2156-ND	160.00	157.75	154.26	149.51	HBS150YG-AN
	12	12.50	18-36	179-2157-ND	160.00	157.75	154.26	149.51	HBS150YH-AN
	12	8.30	34-75	179-2155-ND	133.50	131.25	129.01	126.50	HBS100ZH-ANT
28	3.3	15	18-36	179-2162-ND	148.50	140.50	130.00	122.01	QES050YE-A
	3.3	15	36-75	179-2163-ND	148.50	140.50	130.00	122.01	QES050ZE-A
	3.3	15	36-75	179-2164-ND	148.50	140.50	130.00	122.01	QES050ZE-ANT
	3.3	20	36-75	179-2165-ND	169.25	143.75	131.25	122.00	QES066ZE-A
	3.3	20	36-75	179-2166-ND	169.25	143.75	131.25	122.00	QES066ZE-ANT
29	2.5	15	36-75	179-2168-ND	129.00	123.25	115.00	103.50	QBS038ZD-ANT
	3.3	15	36-75	179-2170-ND	109.25	104.75	97.76	88.76	QBS050ZE-ANT
	5	15	18-36	179-2171-ND	123.25	117.50	110.50	102.50	QBS075YG-A
	5	20	36-75	179-2173-ND	124.25	116.25	107.01	99.00	QBS100ZG-ANT
	12	8.33	18-36	179-2172-ND	124.25	116.25	107.01	99.00	QBS100YH-A

(Continued)

DC-DC Converters *(Cont.)*

Single, Dual and Triple Output *(Cont.)*

Fig. 23

Q48T300XX Series: Through-hole mounted DC/DC converter. In telecommunications applications the Q Family 30A Converters provide thermal performance that far exceeds all quarter bricks and is comparable even to existing half-bricks

1. +Vin
2. On/Off
3. -Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

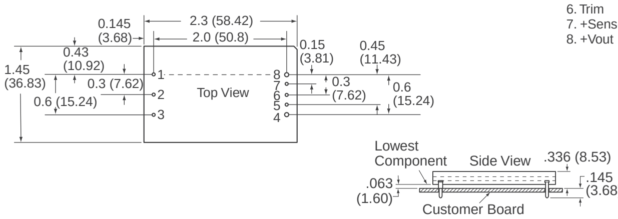

Fig. 24

QL48T30012 Series: • Delivers up to 30A • High efficiency: 81% at 30A, 83% at 15A • No minimum load required • No heatsink required

1. +Vin
2. On/Off
3. -Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

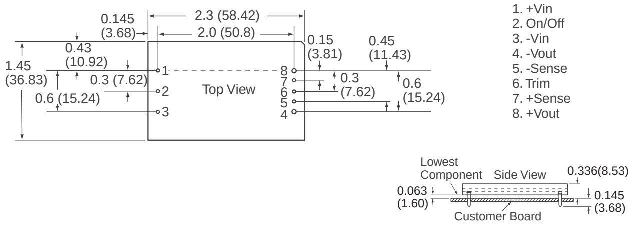

Fig. 25

SQ48 Series: SemiQ Family of DC/DC converters from di/dt provides a high efficiency single output in a size that is only 60% of industry-standard quarter bricks, while preserving the same pinout and functionality. With a standard pinout and trim equations, the SQ48 Series converters are perfect drop-in replacements for existing quarter brick designs. **Features:** • Industry-standard quarter brick pinout • Extremely small footprint: 0.896" x 2.30" (2.06 in^2) • High efficiency – no heatsink required • No minimum load required

1. +Vin
2. On/Off
3. -Vin
4. -Vout
5. -Sense
6. Trim
7. +Sense
8. +Vout

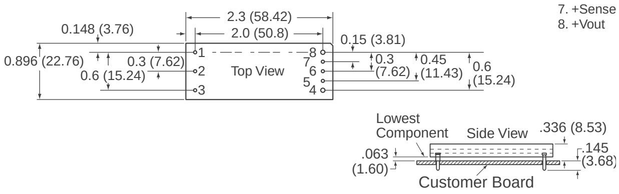

Fig. 26

QD48T Series: Dual output through-hole mounted DC/DC converter offers unprecedented performance in a quarter brick package by providing two independently regulated high current outputs. No minimum load required

1. +Vin
2. On/Off
3. -Vin
4. +Vout1
5. RTN (-Vout1 and -Vout2)
6. Trim
7. +Vout2

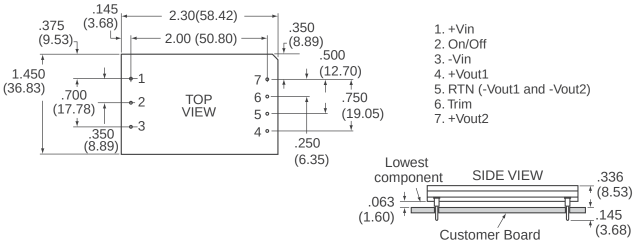

Fig. 27

HBS Series - 33W-150W Single Output: • High efficiency • Open frame design • Water washable • Remote shutdown • ±10% output voltage trim range • ±10% minimum output current • Case temperature, operating range -40°C ~ 100°C • UL1950, CSA 22.2-950, EN60950 safety (consult factory for conditions) • Current can be drawn from any single output to its maximum rated value, or from both to a combined total of 15A
HBC Series: • High efficiency up to 94% • Low conducted and radiated EMI • Output overcurrent protection • Output overvoltage protection • Overtemperature protection

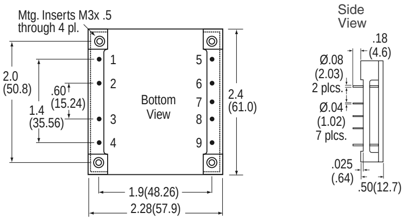

1. –V In
2. Case
3. On/Off
4. +V In
5. –V Out
6. –Sense
7. Trim
8. +Sense
9. +V Out

Fig. 28

QES Series - 66W Single Output: • Industry standard, quarter-brick package • Optional trim and enable • Case temp. operating range -40 ~ 100°C • Wide range input voltage • Open-frame packaging with planar magnetics and high efficiency topology • Units are water-washable and compatible with commercial spray or immersion • 1500V isolation

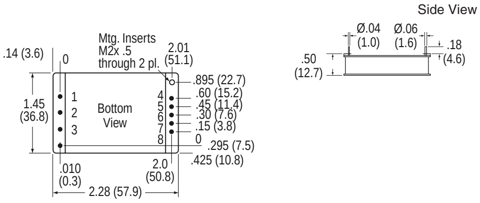

1. –V In
2. On/Off
3. +V In
4. –V Out
5. –Sense
6. Trim
7. +Sense
8. +V Out

Fig. 29

QBS Series - 120W Single Output: • Quarter-brick footprint • High power density up to 120W • Open-frame packaging • 100°C baseplate operation • Outputs from 2.5V ~ 15V • 1500V isolation • Water washable • Positive or negative enable logic • Voltage trim range ±10 • Switching frequency at 400kHz • UL, CUL, TUV safety

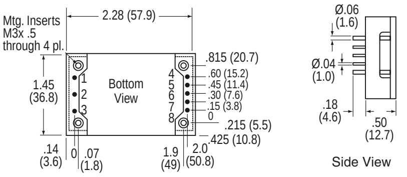

1. –V In
2. On/Off
3. +V In
4. –V Out
5. –Sense
6. Trim
7. +Sense
8. +V Out

Fig. 30

SIP302/305 Series - 15W-20W Single Output: • Non-isolated step-up • High efficiency • Excellent transient response • Perfect tool to augment 3.3V circuit boards with 5V • Open-frame construction • Vertical mounting • Water washable

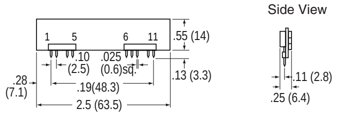

SIP302	SIP305
1. +V Out	1. +V Out
2. +V Out	2. +V Out
3. No Pin	3. +V Out
4. + V Out	4. –V Out
5. Ground	5. –V Out
6. Ground	6. –V In
7. +V In	7. –V In
8. +V In	8. +V In
9. No Pin	9. +V In
10. Trim	10. +V In
11. Remote	11. +V In

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
21	1.80	60.0	36-75	179-2243-ND	133.00	132.00	131.01	128.00	HHS60ZB-NT
	2.50	60.0	36-75	179-2244-ND	133.00	132.00	131.01	128.00	HHS60ZD-NT
	3.30	60.0	36-75	179-2245-ND	133.00	132.00	131.01	128.00	HHS60ZE-NT
30	2.5	6.2	3.0-3.6	179-2181-ND	46.00	44.00	42.00	39.00	SIP302.5LT
	5	4	3.0-4.0	179-2185-ND	44.00	42.00	40.00	37.00	SIP305
32	2.1	6	4.5-5.5	179-2182-ND	44.00	42.00	40.00	37.00	SIP502.1LT
	2.5	6	4.5-5.5	179-2183-ND	44.00	42.00	40.00	37.00	SIP502.5LT
	3.3	6	4.5-5.5	179-2184-ND	44.00	42.00	40.00	37.00	SIP503.3LT
Double Output									
31	3.27/5.20	1.0/1.0	38-75	179-2208-ND	44.00	41.00	37.00	34.00	RND02ZGE-M6
	±12	0.42	36-75	179-2207-ND	44.00	41.00	37.00	34.00	RND0.8ZHH-M6
11	±5	±0.85	9-36	179-1021-ND	71.50	70.00	68.25	66.75	DFC10U24D5
	±5	±0.8	18-72	179-1024-ND	71.50	70.00	68.25	66.75	DFC10U48D5
	±12	±0.4	9-36	179-1022-ND	71.50	70.00	68.25	66.75	DFC10U24D12
	±12	±0.415	18-72	179-1025-ND	71.50	70.00	68.25	66.75	DFC10U48D12
	±15	±0.32	9-36	179-1023-ND	71.50	70.00	68.25	66.75	DFC10U24D15
	±15	±0.33	18-72	179-1026-ND	71.50	70.00	68.25	66.75	DFC10U48D15

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
16	±5	±1.0	3.5-16	179-1056-ND	85.50	82.00	78.75	75.50	DGP12U5D5
	±5	±1.7	9-18	179-1044-ND	105.50	101.50	96.00	91.00	DFA20E12D5
	±5	±1.7	18-36	179-1047-ND	105.50	101.50	96.00	91.00	DFA20E24D5
	±12	±0.5	3.5-16	179-1057-ND	85.50	82.00	78.75	75.50	DGP12U5D12
	±12	±0.85	9-18	179-1045-ND	105.50	101.50	96.00	91.00	DFA20E12D12
	±12	±0.85	18-36	179-1048-ND	105.50	101.50	96.00	91.00	DFA20E24D12
	±15	±0.4	3.5-16	179-1058-ND	85.50	82.00	78.75	75.50	DGP12U5D15
	±15	±0.7	9-18	179-1046-ND	105.50	101.50	96.00	91.00	DFA20E12D15
	±15	±0.7	18-36	179-1049-ND	105.50	101.50	96.00	91.00	DFA20E24D15
15	±15	±0.5	20-72	179-1031-ND	97.75	93.50	89.76	86.25	DFC15U48D15
33	±5	±0.075	4.5-5.5	179-1074-ND	16.50	16.00	15.50	14.25	DSP1N5D5
	±7	±0.07	4.5-5.5	179-1075-ND	16.50	16.00	15.50	14.25	DSP1N5D7
	±12	±0.04	4.5-5.5	179-1076-ND	16.50	16.00	15.50	14.25	DSP1N5D12
	±14	±0.035	4.5-5.5	179-1077-ND	16.50	16.00	15.50	14.25	DSP1N5D14
	±15	±0.033	4.5-5.5	179-1078-ND	16.50	16.00	15.50	14.25	DSP1N5D15
	±17	±0.030	4.5-5.5	179-1079-ND	16.50	16.00	15.50	14.25	DSP1N5D17

(Continued)

Fig. 31

RND Series: • Sychronization function • Low profile – 8.5mm height • Input/output isolation: 1500VDC • Low conducted and radiated EMI • Output overcurrent protection • Wide output voltage trim adjust, positive or negative • Operating temperature to 110°C • Industry standard, 2" x 1" size, low profile, dual output, DC/DC converters intended for SMT placement and reflow soldering

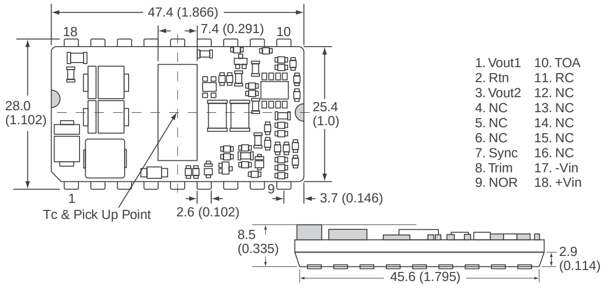

1. Vout1	10. TOA
2. Rtn	11. RC
3. Vout2	12. NC
4. NC	13. NC
5. NC	14. NC
6. NC	15. NC
7. Sync	16. NC
8. Trim	17. -Vin
9. NOR	18. +Vin

Fig. 32

SIP/SIE 500 Series - Single Output: • Non-isolated • High efficiency topology • Excellent transient response • Voltage range input 5VDC nominal • Sense and power OK • Surface mount construction • Voltage trim • Water washable • Vertical mounting • Negative logic remote shutdown

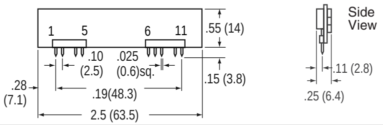

1. +V Out	7. +V In
2. +V Out	8. +V In
3. Sense	9. Power OK
4. +V Out	10. Trim
5. Ground	11. Enable
6. Ground	

Fig. 33

DSP1N5D Series: • Up to 1 watt unregulated output power • Single in-line package • Four terminal operation • Efficiencies to 70% • Output voltages: 5V, 7V, 12V, 14V, 15V, 17V • 500V isolation • -25°C ~ 85°C operation

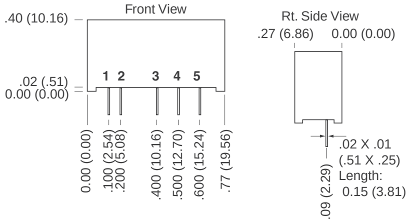

1. +Input
2. –Input
3. –Out
4. Common
5. +Out

Fig. 34

HBD Series - 40-60W Dual Output: • High efficiency • High density • Independent +5 and +3.3 outputs • Remote shutdown • 10% minimum output current • Case temperature, operating range -40°C ~ 100°C • UL1950, CSA22.2-950, EN60950 safety (consult factory for conditions) • Water washable • Open frame technology

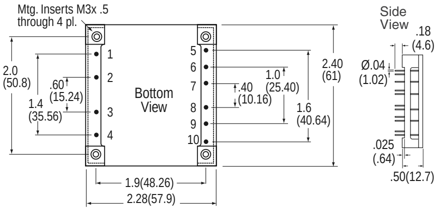

1. –V In
2. Case
3. On/Off
4. +V In
5. –V Out 2 (3.3V)
6. –V Out 2 (3.3V)
7. Trim 2
8. +V Out 1 (5V)
9. –V Out 1 (-5V)
10. Trim 1

Fig. 35

TQD Series - 100W Dual Output: • Independent dual outputs • Flexible load sharing • Open frame design • Independent trims for each output • 1500VDC isolation • Baseplate operation 100°C • Input reverse voltage protection, shunt diode • Positive logic remote shutdown • Switching freq. is 250KHz • UL, CSA, EN60950 safety

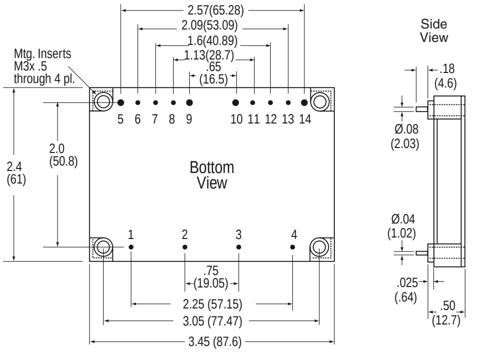

1. –V In
2. Enable
3. Case
4. +V In
5. +V Out 1
6. +Sense 1
7. Trim 1
8. –Sense 1
9. –V Out 1
10. –V Out 2
11. –Sense 2
12. Trim 2
13. +Sense 2
14. +V Out 2

Fig. 36

DGP20ExxT Series - Triple Outputs • Five-sided shielded case • Remote On/Off • Efficiencies to 84% • -40°C ~ 85°C operation • 700V isolation • Extended range input (2:1)

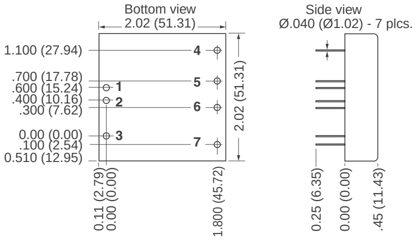

1. +Input
2. –Input
3. On/Off
4. +12/15V Out
5. +5V Output
6. Common
7. –12/15V Out

Fig. 37

UPM-EA Series - 45W Programmable, Non-Isolated: This DC/DC converter is a high efficiency, step-down converter • Excellent transient response • Power good signal • Surface-mount construction • Short circuit protection • Low profile • Water washable • Open-frame design

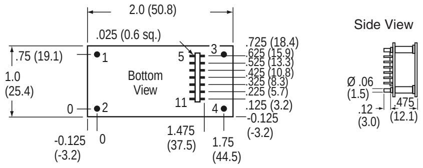

1. –V In
2. +V In
3. –V Out
4. +V Out
5. P4
6. P3
7. P2
8. P1
9. P0
10. Ground
11. Power Ground

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
17	3.3/1.8	25/20	36-72	179-2242-ND	120.00	118.00	116.00	113.00	HHD25ZEB-N
	3.3/2.5	25/20	36-72	179-2241-ND	120.00	118.00	116.00	113.00	HHD25ZED-N
	5.0/3.3	15/15	18-60	179-2250-ND	156.40	138.00	122.36	112.70	HWD075DGE-A
	5.0/3.3	20/20	36-72	179-2240-ND	120.00	118.00	116.00	113.00	HHD20ZGE-N
34	+5.0/+3.3	8/12	18-36	179-2158-ND	150.75	131.25	118.50	111.75	HBD040YGE-A
	+5.0/+3.3	12/15	18-36	179-2160-ND	156.50	138.00	127.75	119.75	HBD060YGE-A
	+5.0/+3.3	8/12	34-75	179-2159-ND	150.75	131.25	118.50	111.75	HBD040ZGE-A
	+5.0/+3.3	12/15	34-75	179-2161-ND	156.50	138.00	127.75	119.75	HBD060ZGE-A
26	1.80/2.50	15.0	36-75	179-2237-ND	105.50	104.00	101.01	99.51	QD48T018025-NBBO
	1.80/3.30	15.0	36-75	179-2236-ND	105.50	104.00	101.01	99.51	QD48T018033-NBBO
	2.50/3.30	15.0	36-75	179-2235-ND	105.50	104.00	101.01	99.51	QD48T025033-NBBO
	3.30.5.0	15.0	36-75	179-2238-ND	105.50	104.00	101.01	99.51	QD48T033050-NBBO
35	+3.3/+2.5	25/25	36-72	179-2174-ND	177.75	162.00	150.00	144.01	TQD085ZED-A
	+3.3/+2.5	25/25	36-72	179-2175-ND	177.75	162.00	150.00	144.01	TQD085ZED-AN
	+5.0/+3.3	20/25	36-72	179-2176-ND	185.00	181.25	173.01	164.51	TQD100ZGE-A
	+5.0/+3.3	20/25	36-72	179-2177-ND	185.00	181.25	173.01	164.51	TQD100ZGE-AN
Triple Output									
36	5 ±12	2.5 ±0.310	9-18	179-1059-ND*	107.00	103.00	98.75	93.50	DGP20E12T5/12
	5 ±12	2.5 ±0.310	18-36	179-1061-ND‡	107.00	103.00	98.75	93.50	DGP20E24T5/12
	5 ±15	2.5 ±0.250	9-18	179-1060-ND†	107.00	103.00	98.75	93.50	DGP20E12T5/15
	5 ±15	2.5 ±0.250	18-36	179-1062-ND*	107.00	103.00	98.75	93.50	DGP20E24T5/15

*600 mA, † 75 mA, ‡60 mA = Minimum Current Load ***Note:*** "N" in suffix of part number denotes Negative Logic;"3" in suffix of part number denotes Trim and Enable

Programmable DC-DC Converter

This programmable DC/DC converter is a high efficiency, step-down converter. It incorporates a 5-bit DAC output voltage control which is compliant with standard VRM VID protocol. It provides up to 45 watts of output at 13A output current, and at output voltages from 1.30 to 3.50V.

Fig.	V Out	I Out (A)	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
37	1.3-3.5	13	4.5-4.5	179-2186-ND	100.80	92.40	84.00	75.60	UPM-EA

CompactPCI® Power Supply

Fully compliant to the PICMG® 2.11 power interface Specification using a standard Positronic 47-pin connector. Patented EDGE™ Technology provides very high output current capacities. At 50°C the 3U units deliver 40 amps on both the +5 and +3.3 volt outputs.

Output Voltage	Power Watts	Current	V In Range	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
+3.3 +5 +12 -12	250	40A 40A 5.5A 2A	90-264	179-2263-ND	414.75	393.75	378.00	357.00	CPA250-4530
+3.3 +5 +12 -12	250	40A 40A 5.5A 2A	36-75	179-2264-ND	414.75	393.75	378.00	357.00	CPD250-4530

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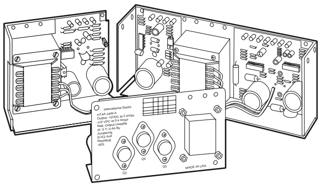

Features: • Worldwide AC input Capabilities • Meets domestic and foreign safety standards: UL, CSA, IEC, VDE, BPO, ECMA, CE • Low output ripple • Two hour burn-in • Made in U.S.A.
Overvoltage Protection Options: Optional overvoltage protection modules are offered, each is user adjustable from 6.4V ~ 34V. Note: Outputs with factory built-in OVP are indicated in the Voltage/Current Rating Chart for each model.
General Specifications: • AC Input: 100/120/220/240VAC +10%, -13%. 47-63 Hz. Tolerance for 230VAC operation is +15%, -10%. Factory wired for 120V operation • DC Output: Adjustment range ±5% minimum. Voltage non-adjustable on “3 terminal regulator” outputs • Line Regulation: ±.05% for a 10% line change. Exceptions: ±.01% for F, G case models, ±0.5% for all other outputs using “3 terminal regulators” • Load Regulation: ±.05% for a 50% load change. Exceptions: ±.02% for F, G case models, ±0.5% for all other outputs using “3 terminal regulators” • Output Ripple: 5V through 15V models: 5.0 mV PK-PK maximum. (3.0 mV PK-PK maximum for F, G case models). 24V through 250V models: 3.0 mV PK-PK plus .02% of output voltage, maximum. All “3 terminal regulator” outputs: 0.2% PK-PK maximum • Overvoltage Protection: Provided on 5V outputs where indicated. Set at 6.2V ±0.4%. Other outputs use optional overvoltage protectors OVP12 and OVP24. • Operating Temperature: 0°C ~ 50°C full rated, derated linearly to 40% at 70°C. • Efficiency: 5V outputs — 45%, 12V and 15V outputs — 55%, 24V through 250V outputs — 60% • Master/Slave Operation: Provided on F, G models only. For parallel operation of up to 6 units. **Safety Specifications:** All models exceed the following safety standards — Leakage Current Line to Ground (maximum): 0.05 mA • Dielectric Withstand Voltage (minimum): Input to Ground — 3750VRMS, Input to Outputs — 3750VRMS, Outputs to Ground — 500VDC • 2 year warranty

Overvoltage Protection

Voltage Adjustment Range: 6.4 - 33VDC		
Maximum Current Rating		
Model	Intermittent	Continuous
OVP-12	12.0A	8.0A
OVP-24	30.0A	20.0A

Dimensions – In. (mm) Height x Width x Thickness	Digi-Key Part No.	Price Each 1	10	25	Power-One Part No.
1.50 x 1.55 x 0.56 (38.10 x 39.37 x 14.22)	179-2057-ND	9.75	9.50	9.25	OVP-12
2.00 x 2.75 x 0.77 (50.80 x 69.85 x 19.56)	179-2058-ND	16.25	15.71	15.50	OVP-24

International Series Single Output

Voltage/ Current	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V @ 1.5A*	B	179-2061-ND	34.75	33.75	33.00	31.25	HA5-1.5/OVP-A
5V @ 3A†*	B	179-2035-ND	36.50	35.50	34.75	33.00	HB5-3/OVP-A
5V @ 6A†*	C	179-2040-ND	57.50	55.75	55.00	51.75	HC5-6/OVP-A
5V @ 9A†*	N	179-2056-ND	78.50	76.00	74.50	70.50	HN5-9/OVP-A
5V @ 12A†*	D	179-2046-ND	89.00	86.25	84.50	80.00	HD5-12/OVP-A
5V @ 18A†*	E	179-2051-ND	131.00	127.25	124.50	118.01	HE5-18/OVP-A
5V @ 25A†*	F	179-2026-ND	184.50	179.00	175.50	166.25	F5-25/OVP-A
12V @ 0.9A**	B	179-2027-ND	32.13	31.25	30.50	29.00	HA15-0.9-A
12V @ 1.7A†	B	179-2029-ND	34.50	33.50	32.75	31.25	HB12-1.7-A
12V @ 3.4A†	C	179-2036-ND	52.25	50.75	49.75	47.00	HC12-3.4-A
12V @ 5.1A†	N	179-2052-ND	73.25	71.00	69.50	66.00	HN12-5.1-A
12V @ 6.8A†	D	179-2041-ND	83.75	81.25	79.50	75.26	HD12-6.8-A
12V @ 10.2A†	E	179-2047-ND	115.00	111.50	109.25	103.51	HE12-10.2-A
12V @ 16A†**	F	179-2024-ND	184.50	179.00	175.50	166.25	F15-15-A
15V @ 1.5A†	B	179-2030-ND	35.75	34.75	34.00	32.26	HB15-1.5-A
15V @ 3A†	C	179-2037-ND	52.25	50.75	49.75	47.00	HC15-3-A
15V @ 4.5A†	N	179-2053-ND	73.25	71.00	69.50	66.00	HN15-4.5-A
15V @ 6A†	D	179-2042-ND	83.75	81.25	79.50	75.26	HD15-6-A
15V @ 9A†	E	179-2048-ND	115.00	111.50	109.25	103.51	HE15-9-A
24V @ 0.5A**	B	179-2028-ND	34.75	33.75	33.00	31.25	HA24-0.5-A
24V @ 1.2A†	B	179-2032-ND	36.50	35.25	34.75	32.76	HB24-1.2-A
24V @ 2.4A†	C	179-2038-ND	52.25	50.75	49.75	47.00	HC24-2.4-A
24V @ 3.6A†	N	179-2054-ND	73.25	71.00	69.50	66.00	HN24-3.6-A
24V @ 4.8A†	D	179-2043-ND	83.75	81.25	79.50	75.26	HD24-4.8-A
24V @ 7.2A†	E	179-2049-ND	115.00	111.50	109.25	103.51	HE24-7.2-A
24V @ 12A†**	F	179-2025-ND	184.50	179.00	175.50	166.25	F24-12-A
28V @ 1A†	B	179-2033-ND	36.50	35.25	34.75	32.76	HB28-1-A
28V @ 2A†	C	179-2039-ND	52.25	50.75	49.75	47.00	HC28-2-A
28V @ 3A†	N	179-2055-ND	73.25	71.00	69.50	66.00	HN28-3-A
28V @ 4A†	D	179-2044-ND	83.75	81.25	79.50	75.26	HD28-4-A
48V @ 0.5A	B	179-2034-ND	42.00	40.75	39.75	37.75	HB48-0.5-A
48V @ 3A†	D	179-2045-ND	89.00	86.25	84.50	80.00	HD48-3-A
48V @ 4A†	E	179-2050-ND	125.50	121.75	119.26	113.00	HE48-4-A

* Overvoltage protection provided. Set at 6.2V ±0.4V. ** Adjustable outputs: F15-15-A: 12-15V, F24-12-A: 24-28V, HA24-0.5-A: 24-28V † Remote sense provided

OVP SELECTION GUIDE		
Model	Case Size	OVP Modules Required
Single Output	B, C, N, D E, F	(1) OVP-12 (1) OVP-24
Dual Output	AA, B, BB, CC E	(1) OVP-12 protects both outputs (1) OVP-24 protects both outputs
Triple Output	AA, BAA, D, CBB 131, DBB, DCC	(1) OVP-12 protects both 12V through 15V outputs
Peak Current Models	PW9935-ND	(1) OVP-12 protects any output not provided with built-in OVP

Case Size

Case	Overall Size – In. (mm)	Weight
CBB	11.00 x 4.87 x 3.28 (279.40 x 123.70 x 83.31)	8 Lbs
D	9.00 x 4.87 x 3.28 (228.60 x 123.70 x 83.31)	7.5 Lbs
DBB	14.25 x 4.87 x 3.38 (361.95 x 123.70 x 85.85)	11 Lbs
DCC	15.00 x 4.88 x 4.55 (381.00 x 123.95 x 115.57)	12 Lbs
E	14.00 x 4.87 x 3.53 (355.60 x 123.70 x 89.66)	10 Lbs
F	16.75 x 4.88 x 5.00 (425.45 x 123.95 x 127.00)	19 Lbs
AA	6.50 x 4.00 x 2.10 (165.10 x 101.60 x 53.34)	2.5 Lbs
B	4.87 x 4.00 x 2.10 (123.70 x 101.60 x 53.34)	2.2 Lbs

Case	Overall Size – In. (mm)	Weight
BB	7.00 x 4.87 x 2.95 (177.80 x 123.70 x 74.93)	4.4 Lbs
BAA	10.25 x 4.00 x 2.95 (260.35 x 101.60 x 74.93)	5 Lbs
C	5.62 x 4.87 x 2.95 (142.75 x 123.70 x 74.93)	4.25 Lbs
CC	9.38 x 4.87 x 3.28 (238.25 x 123.70 x 83.31)	7 Lbs
N	7.00 x 4.87 x 3.20 (177.80 x 123.70 x 81.28)	6 Lbs
CP131	11.00 x 4.87 x 3.20 (279.40 x 123.70 x 81.28)	9 Lbs
NRG275	9.00 x 5.00 x 2.50 (228.60 x 127.00 x 63.50)	3 Lbs

International Series Dual Output

Output #1	Output #2	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
+12V @ 0.4A§	-12V @ 0.4A§	B	179-2065-ND	38.75	37.50	36.75	34.76	HAD12-0.4-A
+15 @ 0.4A§	-15V @ 0.4A§	B	179-2066-ND	38.75	37.50	36.75	34.76	HAD15-0.4-A
+12V @ 1A or +15V @ 0.8A†	-12V @ 1A or -15V @ 0.8A or -5V @ 0.4A†	AA	179-2062-ND	45.00	43.75	42.75	40.51	HAA15-0.8-A
+12V @ 1.7A or +15V @ 1.5A†	-12V @1.7A or -15V @ 1.5A or -5V @ 0.7A†	BB	179-2068-ND	57.50	55.75	55.00	51.76	HBB15-1.5-A
+12V @ 3.4A or +15V @ 3A†	-12V @ 3.4A or -15V @ 3A†	CC	179-2073-ND	92.00	89.25	87.51	82.75	HCC15-3-A
+12V or 15V @ 5A†	(-)12V or 15V @ 5A†	E	179-2078-ND	136.00	131.75	129.01	122.25	HDD15-5-A
+18-20V @ 0.4A or +24V @ 0.6A	(-)18-20V @ 0.4A or -24V @ 0.6A	AA	179-2063-ND	48.46	47.00	46.25	43.76	HAA24-0.6-A
+18-20V @ 0.9A or +24V @ 1.2A	(-)18-20V @ 0.9A or -24V @ 1.2A	BB	179-2069-ND	63.00	62.00	61.01	57.01	HBB24-1.2-A
+18-20V @ 1.8A or +24V @ 2.4A†	(-)18-20V @ 1.8A or -24V @ 2.4A†	CC	179-2074-ND	101.00	98.00	96.00	91.00	HCC24-2.4-A
5V @ 2A*‡	9-15V @ 0.5A	AA	179-2064-ND	52.25	50.75	49.75	47.00	HAA512-A
5V @ 3A*‡†	12-15V @ 1.25A†	BB	179-2070-ND	62.75	61.00	59.50	56.50	HBB512-A
5V @ 6A*‡†	12-15V @ 2.5A†	CC	179-2075-ND	99.25	96.25	94.25	89.50	HCC512-A
+5V @ 2A*	+12V @ 4A	N	179-2060-ND	92.00	89.25	87.51	82.75	CP323-A

* Overvoltage protection provided. Set at 6.2V ±0.4%. † Remote sense provided. ‡ Isolated outputs, can be referenced as + or -. § Non-adjustable 3 terminal regulator.

International Series Triple Output

Output #1	Output #2	Output #3	Case Size	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V @ 2A*‡	+12 to 15V @ 0.4A	(-)12 to 15V @ 0.4A or -5V @ 0.4A	AA	179-2079-ND	57.50	55.75	54.75	51.76	HTAA-16W-A
5V @ 3A*†‡	+12V @ 1A or +15V @ 0.8A†	(-)12 @ 1A or -15V @ 0.8A or -5V @ 0.4A†	BAA	179-2067-ND	79.50	77.00	75.50	71.51	HBAA-40W-A
+5V @ 6A*†	+12 to 15V @1.0A	(-)12 to 15V @ 1A or -5V @ 0.4A	D	179-2071-ND	94.00	91.25	89.50	84.75	HCAA-60W-A
5V @ 6A*†‡	+12V @ 1.7A or +15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	CBB	179-2072-ND	109.75	106.50	104.25	98.76	HCBB-75W-A
5V @ 8A*†‡	+12V @ 1.7A or +15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	131	179-2059-ND	125.50	121.75	119.26	113.00	CP131-A
5V @ 12A*†‡	+12V @ 1.7A or +15V @ 1.5A†	-12V @ 1.7A or -15V @ 1.5A or -5V @ 0.7A†	DBB	179-2076-ND	148.07	143.63	140.67	133.27	HDBB-105W-A
5V @ 12A*†‡	+12V @ 3.4A or +15V @ 3A†	-12V @ 3.4A or -15V @ 3A†	DCC	179-2077-ND	162.00	157.25	154.00	145.75	HDCC-150W-A

* Overvoltage protection provided. Set at 6.2V ±0.4%. † Remote sense provided. ‡ Isolated outputs, can be referenced as + or -

Input Filter Modules - FC100 Series

Fig. 1 — FC100V10A

1. +V In
2. –V In
3. Ground
4. +V Out
5. –V Out

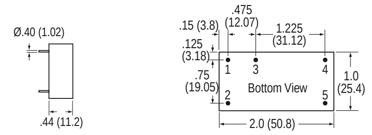

Fig. 2 — FC100V20A

1. –V In
2. –V In
3. +V In
4. +V In
5. Ground
6. –V Out
7. –V Out
8. +V Out
9. +V Out

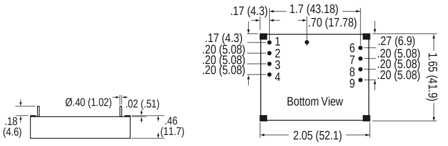

FC100 industry standard series of input filter modules provide up to 30dB of common mode and differential mode filtering at 500KHz. The FC100 series are available in 10A, and 20A versions and are optimized for operation with IPD’s converters. The filters can be operated with up to 100VDC source and have 1000VDC of insolation.
Features: • Meet class B conducted limits • PCB mountable • CM and DM filtering • Industry standard pinout • -40°C ~ 100°C case operation • Input frequency 100 Hz

Fig.	Oper. Curr. (Amps)	Insertion Loss Differential Mode (dB)	Insertion Loss Common Mode (dB)	Typical Resistance (mOhms)	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
1	10 A	31	28	17	179-2179-ND	17.50	17.00	16.25	15.50	FC100V10A
2	20 A	26	32	6.6	179-2180-ND	31.50	29.40	27.30	25.20	FC100V20A

Switching Power Supplies

GENERAL FEATURES:
Safety agency approved: UL recognized, CSA certified, and TUV Essen certified. • Power Fail Warning Signal. 100% test, inspection and burn-in. • Overload Protection • Overvoltage Protection • Overtemperature Protection AC Input: Automatic selecting: 90-264VAC, 47-63 Hz single phase **Temperature Rating:** 0°C ~ 50°C • Two Year Warranty

BLP40/55 Series
The BLP40/55 Series' economical and compact construction provides single or three-output ac-dc power conversion to meet the requirements of networking and data communications systems, as well as commercial and industrial configurations. **FEATURES:** • Industry Standard 3” x 5” footprint • CE marked to Low Voltage Directive • Main Output Remote Sense

MPU150 - 150 Watts with PFC
The MPU150 is the first product in this power range incorporating PFC in a low profile package that meets 1U height constraints.
All models feature remote sense on V1 and V2 to provide independent compensation of power cable losses. Power-One's unique dual-converter architecture combines high reliability, achieved through reduced component stresses, with exceptional regulation. Other standard features include CE Marking, current sharing on V1 and V2, thermal shutdown, and remote inhibit. Additionally, only 300 Linear Feet per Minute (LFM) airflow is required.
FEATURES: • Active power factor correction meets EN61000-3-2 • Low profile height fits 1U height constraints • Dual main outputs provide 3.3V and 5V for mixed logic applications • CE Marked to the LVD • Autoranging AC input, 85-264VAC • Isolated V3 and V4 can be used as plus or minus outputs

MPB80 - 80 Watts with PFC
FEATURES: • 65 Watts convection cooled, 80 Watts with 300 LFM forced air • Power factor correction meets EN61000-3-2 • High 3.3V and 5V current capabilities available • CE Marked to the LVD • Autoranging AC input, 85-264VAC • Overvoltage protection on the main output • Isolated V3 can be used as a plus or minus output.

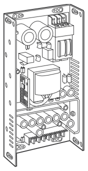
U-Channel

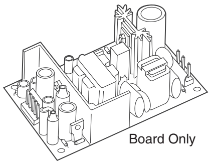
Board Only

9222B-ND Power One
Reference Guide **$4.15**

BLP/MAP SERIES *Single Output*

Nom. Output Voltage	Power (Watts)	Current	Min. Load	Input Housing	Output Housing	Contacts	Dimensions Inches (mm)	Config-uration	Digi-Key Part No.	Price Each			Power-One Part No.
										1	10	25	
NEW! BLP Series — RoHS Compliant NEW!													
5V	25	5A	—	WM2123-ND	WM2126-ND	WM2313-ND	5.00 x 3.00 x 1.23 (127.00 x 76.20 x 31.20)	Board Only	179-2271-ND	33.00	30.00	28.00	BLP40-1005G
12V	25	2.1A	—						179-2270-ND	33.00	30.00	28.00	BLP40-1012G
24V	25	1.1A	—						179-2272-ND	33.00	30.00	28.00	BLP40-1024G
5V	40	8A	—	WM2123-ND	WM2126-ND	WM2313-ND	5.00 x 3.00 x 1.23 (127.00 x 76.20 x 31.20)	Board Only	179-2266-ND	35.00	32.00	30.00	BLP55-1005G
12V	40	3.3A	—						179-2265-ND	35.00	32.00	30.00	BLP55-1012G
24V	40	1.6A	—						179-2267-ND	35.00	32.00	30.00	BLP55-1024G
MAP Series													
5V	40	8A	—	WM2103-ND	WM2108-ND	WM2300-ND	6.00 x 3.27 x 1.60 (152.40 x 83.06 x 40.64)	U-Channel	179-2020-ND	113.00	98.00	88.50	MAP40-1005
5V	40	8A	—				5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	Board Only	179-2001-ND	65.25	59.75	54.00	MAP42-1005
12V-15V	40	3.4A	—				5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	Board Only	179-2002-ND	65.25	59.75	54.00	MAP42-1012
24V-28V	40	1.4A	—				5.00 x 3.00 x 1.25 (127.00 x 76.20 x 31.75)	Board Only	179-2003-ND	65.25	59.75	54.00	MAP42-1024
12V-15V†	55	5.0A	—				6.00 x 3.27 x 1.60 (152.40 x 83.06 x 40.64)	U-Channel	179-2081-ND	124.75	108.00	97.50	MAP55-1012
24V-28V†	55	2.5A	—	WM2103-ND	WM2108-ND	WM2300-ND	6.00 x 3.27 x 1.60 (152.40 x 83.06 x 40.64)	U-Channel	179-2082-ND	124.75	108.00	97.50	MAP55-1024
5.1V	110††	16A	—				7.00 x 4.25 x 1.80 (177.80 x 107.95 x 45.72)	Board Only	179-2006-ND	154.50	144.25	134.01	MAP110-1005
12V-15V†	130	12A	—				8.50 x 4.50 x 2.00 (215.90 x 114.30 x 50.80)	U-Channel	179-2080-ND	245.75	218.75	197.25	MAP130-1012
12V-15V†	140††	9.2A 7.3A	—	WM2103-ND	WM2108-ND	WM2300-ND	7.00 x 4.25 x 1.80 (177.80 x 107.95 x 45.72)	Board Only	179-2009-ND	195.00	184.00	173.25	MAP140-1012
24V-28V†	140††	4.6A 4A	—	WM2103-ND	WM2108-ND	WM2300-ND	7.00 x 4.25 x 1.80 (177.80 x 107.95 x 45.72)	Board Only	179-2010-ND	211.25	200.50	186.25	MAP140-1024
48V	140††	2.3A	—	WM2103-ND	WM2108-ND	WM2300-ND	7.00 x 4.25 x 1.80 (177.80 x 107.95 x 45.72)	Board Only	179-2011-ND	211.25	200.50	186.25	MAP140-1048

† Models with adjustable outputs have current ratings expressed as current at lowest nominal voltage followed by current at highest nominal voltage. †† 200LFM force-air cooling

Triple Output

Nom. Output Voltage	Power (Watts)	Current	Min. Load	Input Housing	Output Housing	Contacts	Configuration	Digi-Key Part No.	Price Each				Power-One Part No.
									1	10	25	50	
NEW! BLP Series — RoHS Compliant NEW!													
5V	25	5A	.3A	WM2123-ND	WM2126-ND	WM2313-ND	Board Only 5.00” x 3.00” x 1.23” (127.00mm x 76.2mm x 31.2mm)	179-2273-ND	37.00	33.00	31.00	29.00	BLP40-3000G
12V		3A	.1A										
-12V		1A	—										
5V	40	7A	.4A	WM2123-ND	WM2126-ND	WM2313-ND	Board Only 5.00” x 3.00” x 1.23” (127.00mm x 76.2mm x 31.2mm)	179-2269-ND	38.00	35.00	33.00	31.00	BLP55-3000G
12V		4A	.2A										
-12V		1A	—										
3.3V	25	7A	.5A	WM2123-ND	WM2126-ND	WM2313-ND	Board Only 5.00” x 3.00” x 1.23” (127.00mm x 76.2mm x 31.2mm)	179-2268-ND	38.00	35.00	33.00	31.00	BLP55-3300G
5V		4A	—										
12V		1A	—										
MAP Series													
5V	40	3A	1A	WM2103-ND	WM2108-ND	WM2300-ND	*Board Only* 5.00” x 3.00” x 1.25” (127.00mm x 76.20mm x 31.75mm)	179-2004-ND	83.00	74.00	68.00	61.00	MAP40-3101
24V		1A	.25A										
-12V		.3A	—										
5V	40	3A	1A	WM2103-ND	WM2108-ND	WM2300-ND	*Board Only* 5.00” x 3.00” x 1.25” (127.00mm x 76.20mm x 31.75mm)	179-2005-ND	69.00	63.00	57.00	52.00	MAP40-3105
12V		2A	.25A										
-5V		.5A	—										
5V	40	3A	.5A	WM2123-ND	WM2126-ND	WM2300-ND	*Board Only* 5.00” x 3.00” x 1.25” (127.00mm x 76.20mm x 31.75mm)	179-2095-ND	78.00	71.00	64.00	57.75	MAP40-3000
12V		2A	.3A										
-12V		.3A	—										
5V	80	20A	2A	WM2103-ND	WM2108-ND	WM2300-ND	*Board Only* 7.00” x 4.25” x 1.80” (177.80mm x 107.95mm x 45.72mm)	179-2012-ND	211.25	200.50	186.25	171.01	MAP140-3000P
12V		4A	—										
-12V		1A	—										

Quad Output

Nom. Output Voltage	Power (Watts)	Current	Min. Load	Input Housing	Output Housing	Contacts	Configuration	Digi-Key Part No.	Price Each				Power-One Part No.
									1	10	25	50	
5V	55	6A	.5A	A19953-ND	A19958-ND	A31396-ND	*U-Channel* 6.00” x 3.27” x 1.60” (152.40mm x 83.06mm x 40.64mm)	179-2096-ND	124.75	108.00	97.50	94.75	MAP55-4000
12V		3A	—										
-5V		.5A*	—										
-12V		.5A*	—										
5V	55	6A	.5A	A19953-ND	A19958-ND	A31396-ND	*U-Channel* 6.00” x 3.27” x 1.60” (152.40mm x 83.06mm x 40.64mm)	179-2097-ND	124.75	108.00	97.50	94.75	MAP55-4001
24V		1.5A	—										
12V		.5A*	—										
-12V		.5A*	—										
5V	55	6A	.5A	A19953-ND	A19958-ND	A31396-ND	*U-Channel* 6.00” x 3.27” x 1.60” (152.40mm x 83.06mm x 40.64mm)	179-2098-ND	124.75	108.00	97.50	94.75	MAP55-4002
12V		3A	—										
12V		.5A*	—										
-12V		.5A*	—										
5V	55	6A	.5A	A19953-ND	A19958-ND	A31396-ND	*U-Channel* 6.00” x 3.27” x 1.60” (152.40mm x 83.06mm x 40.64mm)	179-2099-ND	125.00	108.00	98.01	95.01	MAP55-4003
15		2.5A	—										
-5V		.5A*	—										
-15V		.5A*	—										
5V	80	14A	1A	A19953-ND	A24126-ND	A31396-ND	*U-Channel* 7.20” x 4.20” x 1.80” (182.88mm x 106.68mm x 45.72mm)	179-2100-ND	196.00	185.00	168.00	163.01	MAP80-4000
12V		4A	—										
-12V		1A	—										
-5V		1A	—										
5V	80	14A	1A	A19953-ND	A24126-ND	A31396-ND	*U-Channel* 7.20” x 4.20” x 1.80” (182.88mm x 106.68mm x 45.72mm)	179-2101-ND	200.00	196.00	179.00	168.01	MAP80-4001
24V		2A	—										
12V		1A	—										
-12V		1A	—										
5V	80	14A	1A	A19953-ND	A24126-ND	A31396-ND	*U-Channel* 7.20” x 4.20” x 1.80” (182.88mm x 106.68mm x 45.72mm)	179-2102-ND	207.00	196.00	179.00	168.01	MAP80-4002
12V		4A	—										
12V		1A	—										
-12V		1A	—										
5V	80	14A	1A	A19953-ND	A24126-ND	A31396-ND	*U-Channel* 7.20” x 4.20” x 1.80” (182.88mm x 106.68mm x 45.72mm)	179-2103-ND	204.50	192.00	173.01	167.01	MAP80-4003
15V		3.5A	—										
-5V		1A	—										
-15V		1A	—										

* Maximum load on V3 or V4 can be 1 amp if either V3 or V4 is unloaded.

(Continued)

Nom. Output Voltage	Power (Watts)	Current	Min. Load	Input Housing	Output Housing	Contacts	Configuration	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
5V 12V -12V 24V	80	12A 5A 1A 1A	1A — — —	A19953-ND	A28761-ND	A31396-ND	Board Only 7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 45.72mm)	179-2007-ND	162.50	151.50	141.00	131.01	MAP110-4011
3.3V 5V -12V 12V	80	12A 5A 1A 1A	1A — — —	A19953-ND	A28761-ND	A31396-ND	Board Only 7.00" x 4.25" x 1.80" (177.80mm x 107.95mm x 45.72mm)	179-2008-ND	234.50	209.00	188.50	183.00	MAP110-4300
5V 12V -12V -5V	130	20A 5A 1A 1A	3A — — —	A19953-ND	A24127-ND	A31396-ND	U-Channel 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2093-ND	245.75	218.75	197.25	191.75	MAP130-4000
5V 24V -12V 12V	130	20A 3.5A 1A 1A	3A — — —	A19953-ND	A24127-ND	A31396-ND	U-Channel 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2019-ND	250.00	222.50	200.51	194.75	MAP130-4001
5V 12V 12V -12V	130	20A 5A 1A 1A	3A — — —	A19953-ND	A24127-ND	A31396-ND	U-Channel 8.50" x 4.50" x 2.00" (215.90mm x 114.30mm x 50.80mm)	179-2094-ND	250.00	222.50	200.51	194.75	MAP130-4002
Cover for MAP55 and MAP40-1005 Series								179-2021-ND	11.43	—	—	—	412-59584
Cover for MAP80 Series								179-2022-ND	14.25	—	—	—	412-59585
Cover for MAP130 Series								179-2023-ND	10.50	—	—	—	412-59586

* Maximum load on V3 or V4 can be 1 amp if either V3 or V4 is unloaded.

MPB 80 Series

Nom. Output Voltage	Current	Min. Load	Input Housing	Output Housing	Contacts	Dimensions Inches (mm)	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
80 - Power (Watts)* — Board Only												
5V 12V	11A .5A	1.5A —	WM2101-ND	WM2104-ND	WM2300-ND	5.00 x 3.00 x 1.40 (127.00 x 76.20 x 33.02)	179-2013-ND	99.75	90.00	83.00	75.01	MPB80-2000
5V 12V 12V	7A 2.5A 0.3A	.7A — —	WM2101-ND	WM2105-ND	WM2300-ND	5.00 x 3.00 x 1.40 (127.00 x 76.20 x 35.56)	179-2014-ND	105.00	96.75	89.25	80.00	MPB80-3000
3.3V 5V 12V	7A 3A 0.4A	.7A — —	WM2101-ND	WM2105-ND	WM2300-ND	5.00 x 3.00 x 1.40 (127.00 x 76.20 x 35.56)	179-2015-ND	105.00	96.75	89.25	80.00	MPB80-3300

Caution: * 80 Watt with 300LFM force-air cooling.

MPB 125 Series

Features: • High power density in an industry standard 3" x 5" footprint • Power Factor Correction (PFC) meets EN61000-3-2 • Main output remote sense • MTBF in excess of 1M hours based upon field data • Optional remote on/off with 5V standby • Maximum forced-air output power is 125 watts with 5 CFM airflow

Output Voltage	Max. Output Current (A), 130 LFM	Dimensions Inch (mm) L x W x H	Mating Connectors								Digi-Key Part No.	Price Each			Power-One Part No.
			Housing AC Input	Contacts AC Input	Housing, V1 DC Output	Contacts, V1 DC Output	Signal Housing	Signal Contacts	Housing, V2 DC Output	Contacts, V2 DC Output		1	10	25	
Standard Model															
12 12	10.5 0.5	5.0 X 3.0 X 1.25 (127.0 X 76.2 X 31.75)	WM2123	WM2313	WM2126	WM2313	WM2004	WM2200	WM2000	WM2200	179-2253-ND	87.50	85.00	80.00	MPB125-2012
15 12	8.3 0.5	5.0 X 3.0 X 1.25 (127.0 X 76.2 X 31.75)	WM2123	WM2313	WM2126	WM2313	WM2004	WM2200	WM2000	WM2200	179-2254-ND	87.50	85.00	80.00	MPB125-2015
48 12	2.6 0.5	5.0 X 3.0 X 1.25 (127.0 X 76.2 X 31.75)	WM2123	WM2313	WM2126	WM2313	WM2004	WM2200	WM2000	WM2200	179-2256-ND	87.50	85.00	80.00	MPB125-2048
5 12 -12	16.5 5 0.5	5.0 x 3.0 x 1.25 (127.0 X 97 X 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2257-ND	87.50	85.00	80.00	MPB125-3000
2.5 5 12 -12	12 15 5 0.5	5.0 x 3.0 x 1.25 (127.0 X 97 X 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2258-ND	87.50	85.00	80.00	MPB125-4250
With Remote On/Off and Standby Output															
5 12 -12	16.5 5 0.5	5.0 x 3.8 x 1.25 (127.0 X 97 X 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2260-ND	105.00	102.00	96.00	MPB125-3000R
2.5 5 12 -12	12 15 5 0.5	5.0 x 3.8 x 1.25 (127.0 X 97 X 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2261-ND	105.00	102.00	96.00	MPB125-4250R
3.3 5 12 -12	10 15 5 0.5	5.0 x 3.8 x 1.25 (127.0 X 97 X 31.75)	WM2123	WM2313	A24123	A31396	WM2003	WM2200	WM2001	WM2200	179-2262-ND	105.00	102.00	96.00	MPB125-4350R

MPU 150 Series

Configuration: 179-2016-ND, 179-2017-ND and 179-2018-ND: U-Channel 7.40" x 4.20" 1.50" (187.96mm x 106.68mm x 38.10mm) **Caution:** * 150 Watt with 300LFM force-air cooling.

Nom. Output Voltage	Current	Adjustable Range	Line Regulator	Load Regulator	Digi-Key Part No.	Price Each 1	10	25	50	Power-One Part No.
150 - Power (Watts)*										
3.3V 5V 12V	35A 20A 2A	3.15 ~ 3.8V 5.0 ~ 5.5V 10.8 ~ 13.2V	.6% .4% .4%	1.5% 3% 3%	179-2016-ND	241.50	220.50	210.01	194.26	MPU150-3300
5.1V 12V 5V 12V	30A 8A 3A 2A	5.0 ~ 5.5V 10.8 ~ 13.2V 5.0 ~ 5.5V 10.8 ~ 13.2V	.4% .4% .4% .4%	1% 1% 1% 1%	179-2017-ND	262.50	241.50	225.75	204.75	MPU150-4000
5.1V 3.3V 12V 12V	30A 15A 3A† 3A†	5.0 ~ 5.5V 3.15 ~ 3.6V 10.8 ~ 13.2V 10.8 ~ 13.2V	.4% .6% .4% .4%	1% 1.5% 7% 7%	179-2018-ND	262.50	241.50	225.75	204.75	MPU150-4530

† Total not to exceed 5A.

Weidmüller

DIN-Rail Mounted Switchmode Power Supplies

Features:

- TS35 DIN Rail Mounted
- AC or DC Input
- Wide AC Input Voltage Range
- Interference suppressed
- Electronic short circuit regulation on output
- CSA, UL, CE
- 26-12 AWG input/output conductor size

Fig. 1

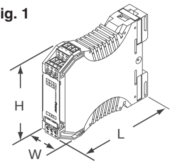

Fig. 2

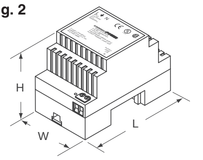

Fig. 3

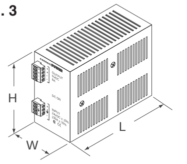

Fig. 4

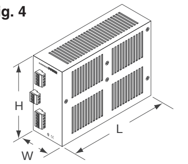

Fig. 5

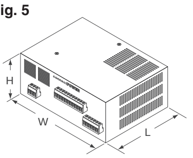

Fig.	Input Voltage Range VAC	Input Voltage Range VDC	Dimensions L x W X H (mm)	DC Output Voltage	Max. Current Output (A)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Weidmüller Part No.
1	85 - 265V	120 - 300V	112.5 x 18 x 90	24V	0.5	281-2002-ND	109.98	100.55	78.56	9918840024
2	85 - 265V	120 - 300V	62.5 x 52 x 90.5	5V	2.0	281-1556-ND	75.25	68.81	53.76	9928890005
				12V	1.5	281-1557-ND*	75.25	68.81	53.76	9928890012
				15V	1.5	281-1558-ND	75.25	68.81	53.76	9928890015
				24V	1.0	281-1563-ND*	75.25	68.81	53.76	9928890024
				28V	1.0	281-1559-ND	75.25	68.81	53.76	9928890028
3	85 - 265V	120 - 300V	131 x 57 x 98	24V - 28V	2.3	281-2005-ND*	162.75	148.80	116.25	9927480024
				48V	1.04	281-2006-ND	167.86	153.48	119.91	9927480048
				12V - 15V	3.0	281-2004-ND*	167.86	153.48	119.91	9927480012
				5V	3.0	281-2003-ND	167.86	153.48	119.91	9927480005
	306 - 550V	—	160 x 60 x 108	24	2.3	281-2009-ND†	196.80	179.94	140.58	9917790324
4	85 - 138V	275-375V	175 x 57 x 127	24V - 28V	6.5	281-2007-ND*	294.00	268.80	210.00	9925340024
5	86 - 265V	100 - 200V	155 x 240 x 101	24V	12.5	281-2019-ND	506.05	462.68	361.47	9916250024

† 3-Phase input * Class 1 Division 2 approved

DIN-Rail Mounted DC-DC Converters

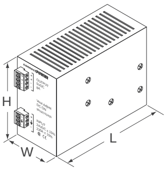

The CP-DCDC 50W is a compact 50W DIN rail mounted DC to DC converter family. This family is available in 2 input versions and 4 output versions, making it very versatile.

Features: • 12V and 24V input versions • 5V, 12V, 15V and 24V output variations • User adjustable output voltage • Input and output plug-socket connectors • Output status LED • DIN rail (TS35) mountable • Chassis mountable with optional hardware • Just 57mm (2.24”) wide • Robust metal housing

Specifications: Temp range: -10°C ~ 50°C **Wire Size:** 26-12AWG **Approvals/Certifications:** CSA, UL, CE **Fused Input Protections:** 6.3A Slow Blow

Input Current	Output Volt/Current	Output Adj. Range	Dimension L x W x H (mm)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Price Each 50	Weidmüller Part No.
12VDC Input Version with 10.2 - 13.8VDC Input Range									
4.53A	5V@8A	4.6V - 5.6V	98 x 57 x 131	281-2010-ND*	239.63	215.68	207.69	203.69	9919371205
3.88A	12V@3A	10.5V - 14.5V		281-2011-ND*	239.63	215.68	207.69	203.69	9919371212
4.70A	15V@3A	13V - 18V		281-2012-ND*	239.63	215.68	207.69	203.69	9919371215
4.96A	24V@2A	20.5V - 29.5V		281-2013-ND*	239.63	215.68	207.69	203.69	9919371224
24VDC Input Version with 20.4 - 27.6VDC Input Range									
2.3A	5V@8A	4.6V - 5.6V	98 x 57 x 131	281-2014-ND*	239.63	215.68	207.69	203.69	9919372405
1.93A	12V@3A	10.5V - 14.5V		281-2015-ND*	238.14	214.33	206.39	202.42	9919372412
2.37A	15V@3A	13V - 18V		281-2016-ND*	239.63	215.68	207.69	203.69	9919372415
2.49A	24V@2A	20.5V - 29.5V		281-2017-ND*	239.63	215.68	207.69	203.69	9919372424
Chassis Mounting Kit				281-2018-ND	8.13	6.26	5.01	—	7920560000

* Class 1 Division 2 approved

PHOENIX CONTACT

DIN-Rail Mounted Quint Generation 2 Primary Switched-Mode Power Supplies

Features:

- Universal voltage input
- Maximum space-saving design
- Power factor correction
- POWER BOOST output up to 50%
- Electronic overload protection
- High MTBF rating >500,000 hours
- DC OK signal and DC OK dry contact
- Parallel and series connection

Fig. 1

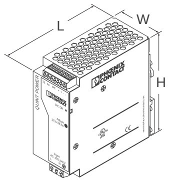

Fig. 2

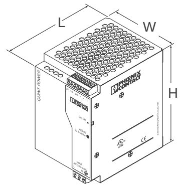

Fig. 3

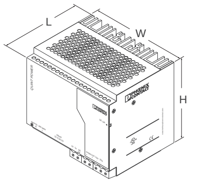

Fig.	Input Voltage Range VAC	Input Voltage Range VDC	Dimensions L x W X H (mm)	Output Voltage	Current Output	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Phoenix Part No.
1	85-264V	90-350V	125 x 55 x 130	24VDC	2.5A	277-1660-ND	176.40	161.28	126.00	2938578
			125 x 55 x 130		5A	277-1661-ND	264.60	241.92	189.00	2938581
2	85-264V	90-350V	130 x 85 x 130	12VDC	10A	277-1865-ND† ***NEW!***	380.36	347.76	271.69	2938811
			125 x 85 x 130	24VDC	10A	277-1662-ND	380.36	347.76	271.69	2938604
			125 x 85 x 130	48VDC	5A	277-1866-ND† ***NEW!***	435.49	398.16	311.07	2866255
3	85-264V	90-350V	125 x 157 x 130	24VDC	20A	277-1663-ND	633.94	579.60	452.82	2938620

† ***RoHS Compliant***

DIN-Rail Mounted Mini Power Universal Power Supplies

Features:

• Universal voltage input • Maximum space-saving design • Power factor correction • POWER BOOST output up to 100% • Electronic overload protection • High MTBF rating >500,000 hours • Pluggable COMBICON connections • Parallel and series connection • Derating starts @ >60° C

Fig. 1

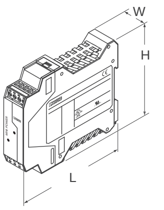

Fig. 2

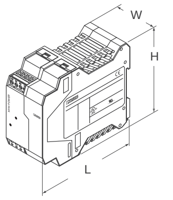

Fig.	Input Voltage Range VAC	Input Voltage Range VDC	Dimensions L x W X H (mm)	Output Voltage	Current Output	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Phoenix Part No.
1	85-264V	90-350V	114.5 x 22.5 x 99	5VDC	3A	277-1664-ND	113.56	103.83	81.12	2938714
				24VDC	1A	277-1668-ND	105.84	96.77	75.60	2938840
2	85-264V	90-350V	114.5 x 45 x 99	10-15VDC	2A	277-1863-ND† ***NEW!***	144.43	132.05	103.17	2938756
			114.5 x 67.5 x 99	10-15VDC	8A	277-1864-ND† ***NEW!***	194.04	177.41	138.60	2866297
			114.5 x 45 x 99	24VDC	2A	277-1666-ND	132.30	120.96	94.50	2938730
			114.5 x 67.5 x 99	24VDC	3.8A	277-1862-ND† ***NEW!***	175.30	160.28	125.22	2866336

† ***RoHS Compliant***

NEW! Filter Surge Protection

RoHS COMPLIANT

DIN rail module with device surge protection type 3 and mains suppression filter against high frequency interference voltages. Integrated power display switches off automatically when there is a malfunction due to overload.
Mounting on NS 35.

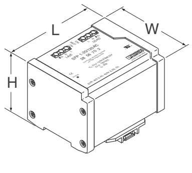

Specifications:

- 120V Nominal Voltage
- 20A Nominal Current
- UL1449
- UL1283

277-1867-ND (2856702)..**$382.79**

OMRON Switching Power Supplies

S8VS Series Switching Power Supplies

• Ultra-compact size with built-in din rail mounting • Approved by UL, cUL, UL508 listed, Class 2 output (60W only) • SEMI F47 approved • CE marked • Three year warranty

Specifications:
• Efficiency (typical): 60W: 78% minimum; 90W: 80% minimum • **Input Voltage:** 100 ~ 240VAC (85 ~ 264VAC) • Power Factor Correction: Conforms to EN61000-3-2 A-14 • Overvoltage Protection: Yes • Output Indicator: Yes, green • Electromagnetic Interference: Conforms to FCC Class A, EN50081-2

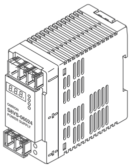

Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
15	5	2.0	3.35 x 0.89 x 3.80 (85 x 22.5 x 96.4)	Standard	Z2289-ND*	64.83	60.03	56.03	52.03	S8VS-01505
	12	1.2			Z2290-ND	64.83	60.03	56.03	52.03	S8VS-01512
	24	0.65			Z2291-ND	64.83	60.03	56.03	52.03	S8VS-01524
30	5	4.0	3.35 x 0.89 x 3.80 (85 x 22.5 x 96.4)	Standard	Z2292-ND§	83.62	77.43	72.27	67.11	S8VS-03005
	12	2.5			Z2293-ND	83.62	77.43	72.27	67.11	S8VS-03012
	24	1.3			Z2294-ND	83.62	77.43	72.27	67.11	S8VS-03024
60	24	2.5	3.74 x 1.58 x 4.26 (95 x 40 x 108.3)	Standard	Z1663-ND	117.45	108.75	101.50	94.25	S8VS-06024
				with Maintenance Forcast Monitor	Z1665-ND	122.41	113.34	105.79	98.23	S8VS-06024A
				with Total Run Time Monitor	Z1667-ND	124.03	114.84	107.19	99.53	S8VS-06024B
90	24	3.75	4.53 x 1.97 x 4.77 (115 x 50 x 121.3)	Standard	Z1664-ND	155.03	143.55	133.98	124.41	S8VS-09024
				with Maintenance Forcast Monitor	Z1666-ND	161.61	149.64	139.67	129.69	S8VS-09024A
				with Total Run Time Monitor	Z1668-ND	161.61	149.64	139.67	129.69	S8VS-09024B
120	24	5.0	4.53 x 1.97 x 4.77 (115 x 50 x 121.3)	Standard	Z2295-ND	186.04	172.26	160.78	149.30	S8VS-12024
				with Maintenance Forcast Monitor	Z2296-ND	192.62	178.35	166.46	154.57	S8VS-12024A
				with Total Run Time Monitor	Z2297-ND	192.62	178.35	166.46	154.57	S8VS-12024B
180	24	7.5	4.53 x 2.95 x 4.93 (115 x 75 x 125.3)	Standard	Z2298-ND	248.99	230.55	215.18	199.81	S8VS-18024
				with Maintenance Forcast Monitor	Z2299-ND	258.39	239.25	223.30	207.35	S8VS-18024A
				with Total Run Time Monitor	Z2300-ND	258.39	239.25	223.30	207.35	S8VS-18024B
240	24	10.0	4.53 x 3.94 x 4.93 (115 x 100 x 125.3)	Standard	Z2301-ND	272.48	252.30	235.48	218.66	S8VS-24024
				with Maintenance Forcast Monitor	Z2302-ND	324.16	300.15	280.14	260.13	S8VS-24024A
				with Total Run Time Monitor	Z2303-ND	324.16	300.15	280.14	260.13	S8VS-24024B

* The output capacity of the Z2289-ND is 10 Watts. § The output capacity of the Z2292-ND is 20 Watts.

S82K DIN Rail/ Chassis Mount Switching Supplies

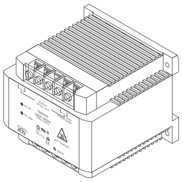

DIN Rail or chassis mounted power supply for industrial applications. Screw terminals for both input and output connections and enclosed circuit board make this supply extremely safe for open access areas. For mounting track, use Z840-ND or Z841-ND.

Specifications: • Input Frequency: 47 ~ 450Hz • Leakage Current: 100V input 0.5mA maximum • Efficiency: (typical) 60% ~ 80% • Overload Protection: 105% ~ 160% of rated load current (typical) • Life Expectancy: 8 years minimum • Operating Temperature: 0°C ~ 40°C • Input Voltage: 120VAC (85 ~ 132VAC) or 240VAC (170 ~ 264VAC) selectable • Ambient Humidity: Operating 25% ~ 85% • Noise Filter: Yes • Electromagnetic Interference: Conforms to FCC class B • Output Voltage Adjustment Range: ±10%

Input Voltage VAC	Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
85-264	3	5	0.6	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1177-ND	48.39	44.81	41.82	S82K-00305
	3	12	0.25	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1178-ND	48.39	44.81	41.82	S82K-00312
	3	24	0.13	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1179-ND	48.39	44.81	41.82	S82K-00324
	7.5	5	1.5	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1180-ND	53.32	49.38	46.09	S82K-00705
	7.5	12	0.6	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1181-ND	53.32	49.38	46.09	S82K-00712
	7.5	24	0.3	2.95 x 1.48 x 2.56 (75 x 37.5 x 65)	DIN-Rail	Z1182-ND	53.32	49.38	46.09	S82K-00724
	15	24	0.6	2.95 x 1.77 x 3.58 (75 x 45 x 91)	DIN-Rail	Z1183-ND	80.10	74.17	69.23	S82K-01524
	30	24	1.3	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z1184-ND	108.05	100.05	93.38	S82K-03024
	50	24	2.1	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z1185-ND	124.03	114.84	107.19	S82K-05024
100-240	15	5	2.5	2.95 x 1.77 x 3.58 (75 x 45 x 91)	DIN-Rail	Z2435-ND	80.11	74.18	69.23	S82K-01505
	15	12	1.2	2.95 x 1.77 x 3.58 (75 x 45 x 91)	DIN-Rail	Z2361-ND	80.10	74.17	69.23	S82K-01512
	30	5	5.0	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z2436-ND	108.05	100.05	93.38	S82K-03005
	30	12	2.5	2.95 x 3.54 x 3.58 (75 x 90 x 91)	DIN-Rail	Z2437-ND	108.05	100.05	93.38	S82K-03012
120/240	90	24	3.75	2.95 x 5.71 x 3.78 (75 x 145 x 96)	DIN-Rail	Z2438-ND	163.49	151.38	141.29	S82K-09024
	100	24	4.2	2.95 x 5.71 x 3.78 (75 x 145 x 96)	DIN-Rail	Z2360-ND	172.89	160.08	149.41	S82K-10024

Enclosed Case— Single and Multiple Output

S8E Economical Enclosed Switching Supplies

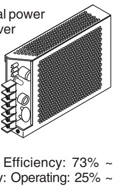

Compact and economical power supplies with vented cover for industrial applications. Screw terminal connections for ease of connecting to supply. **Specifications:** • Input Voltage: 85 ~ 132V • Overvoltage Protection: Yes (5-V output models only) • Efficiency: 73% ~ 83% • Ambient Humidity: Operating: 25% ~ 85% • Leakage Current (with rated I/O): 0.5mA max. • Operating Temperature: 0°C ~ 40°C; Open-framed 0°C ~ 50°C • Output Indicator: Green LED • Noise Filter: Yes • Electromagnetic Interference: Conforms to FCC class A standards and 1st group of VCCI • Voltage Adjustment Range: ±5% • Life Expectancy: 8 years min.

Input Voltage	Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
85-132	10	5	2.0	1.10 x 2.72 x 3.35 (28 x 69 x 85)	Enclosed	Z1151-ND	52.15	48.29	45.07	41.85	S8E1-01005D
	10	24	0.5	1.10 x 2.72 x 3.35 (28 x 69 x 85)	Enclosed	Z1152-ND	52.15	48.29	45.07	41.85	S8E1-01024D
	15	24	0.7	1.34 x 2.72 x 3.70 (34 x 69 x 94)	Enclosed	Z1154-ND	62.01	57.42	53.60	49.77	S8E1-01524D
	25	24	1.1	1.38 x 2.72 x 4.84 (35 x 69 x 123)	Enclosed	Z1156-ND	77.99	72.21	67.40	62.59	S8E1-02524D
	50	24	2.2	1.46 x 2.72 x 6.34 (37 x 69 x 161)	Enclosed	Z1158-ND	108.99	100.92	94.20	87.47	S8E1-05024D
85-132	50	5 12 -12	5V/5 12V/1.5 -12V/0.5	1.3 x 2.71 x 7.62 (33 x 69 x 193.5)	Open-framed	Z1160-ND	103.36	95.70	89.32	82.94	S8E3-05031A
85-132	30	5 12 -12	5V/3 12V/1.2 -12V/0.3	1.3 x 2.71 x 6.77 (33 x 69 x 172)	Enclosed	Z1161-ND	94.90	87.87	82.02	76.16	S8E3-03031D
85-132	50	5 12 -12	5V/5 12V/1.5 -12V/0.5	1.3 x 2.71 x 7.62 (33 x 69 x 193.5)	Enclosed	Z1162-ND	114.63	106.14	99.07	91.99	S8E3-05031D

S8PS Series Enclosed DIN Rail Mount Supplies

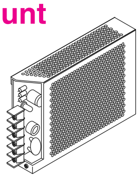

Enclosed DIN rail mount power supplies with PFC on all models. Screw terminal connections make interfacing to supply convenient. For mounting track, use Z840-ND or Z841-ND

Specifications: • Input Frequency: 47 ~ 63Hz • Overvoltage Protection: Yes • Efficiency: (typical) 74% to 80% • Operating Temperature: 0°C ~ 50°C • Life Expectancy: 10 years minimum • Output indicator: Yes (green) • Electromagnetic Interference: Conforms to FCC Class B, EN50081-1 • Leakage Current: 0.5 or 1.0mA maximum • Voltage Adjustment Range: -5% ~ 10% • Mean Time Between Failure (MTBF): 135,000 hours minimum

Input Voltage	Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
85-264	50	5	10	1.57 x 3.35 x 5 (40 x 85 x 127)	Enclosed	Z1173-ND	122.15	113.10	105.56	98.02	S8PS-05005CD
	50	12	4.2	1.57 x 3.35 x 5 (40 x 85 x 127)	Enclosed	Z1174-ND	122.15	113.10	105.56	98.02	S8PS-05012CD
	50	24	2.1	1.57 x 3.35 x 5 (40 x 85 x 127)	Enclosed	Z1175-ND	122.15	113.10	105.56	98.02	S8PS-05024CD
	100	24	4.5	1.97x 3.62 x 5.71 (50 x 92 x 145)	Enclosed	Z1176-ND	192.62	178.35	166.46	154.57	S8PS-10024CD

S82J Open Switching Power Supplies

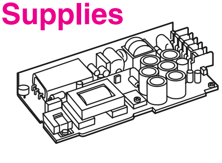

Open frame switching power supply with wide input voltages for industrial applications. Screw terminal connections for ease of connecting to supply.

Specifications: • Efficiency: (typical) 78% ~ 85% • Voltage Adjustment Range: ±10% • Operating Temperature: 0°C ~ 50°C • Overload Protection: 105% minimum of rated load current • Frequency: 47 ~ 450Hz • Life Expectancy: 8 years minimum • Leakage Current: 0.5mA maximum • Ambient Humidity: Operating: 25% to 85% • Noise Filter: Yes • Electromagnetic Interference: Conforms to FCC class A, EN55011 Gr1 class A: EN50081-2

Input Voltage	Watts	Output Volt. (VDC)	Output Current (A)	Dimensions Inch (mm) HxWxD	Features	Digi-Key Part No.	Price Each 1	25	50	100	Omron Part No.
85-132	50	5	10	1.57 x 3.82 x 6.34 (40 x 97 x 161)	Open-framed	Z1167-ND	82.22	76.13	71.05	65.98	S82J-05005A
85-264	50	24	2.1	3.8 x 1.6 x 6.34 (97 x 40 x 161)	Open-framed	Z1168-ND	79.40	73.52	68.62	63.72	S82J-05024A

Panasonic® DC-DC Power Modules FD-Series

The FD Series are DC-DC converters especially designed for Telecommunication equipment (i.e., Base Station RF Power Amplifier, Private Branch Exchange (PBX). FD Series involves newly developed "Partial Resonant Zero Voltage Switching Converter", "High Thermal Conductive Composite Board" and "Low Profile Inductors" to achieve high density, high efficiency and low EMI noise

Applications:

- RF Power Amplifier for Base Station
- Private Branch Exchange (PBX)

Features:

- Parallel operation with forced load sharing
- Remote ON/OFF (primary side referenced)
- Adjustable output voltage
- Power Good Signal (POK)
- Thermal protection
- Over voltage and over current protection
- Case ground (Base Plate) pin
- Remote sense
- UL Recognized, CSA Certified, and EN60950
- CE mark meets 73/73/EEC and 93/68/EEC directives
- Mounting Inserts: M3 X 0.5

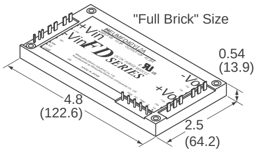

VDC Input Min.	VDC Input Typ.	VDC Input Max.	V Out	I Out	V in Range	Output Noise (mV)	Load Reg. (%)	Line Reg. (%)	% Typ. Efficiency	Temperature Range	Digi-Key Part No.	Price Each	Panasonic Part No.
Output Power – 500 Watts													
19	24	36	12	42A	19-36	150	0.5	0.5	85	-40°C ~ 85°C @ 500W -40°C ~ 100°C @ 425W	P12730-ND	395.01	EUMFD50V12A
Output Power – 600 Watts													
19	24	36	28	21.5A	19-36	100	0.7	0.5	87.5	-40°C ~ 85°C @ 560W -40°C ~ 100°C @ 448W	P12731-ND	395.01	EUMFD60V28A
36	48	72	12	50A	36-72	80	0.5	0.5	89	-40°C ~ 85°C @ 600W -40°C ~ 100°C @ 540W	P12732-ND	395.01	EUMFD60Y12A
36	48	72	28	21.5A	36-72	100	0.75	0.5	91	-40°C ~ 85°C @ 602W -40°C ~ 100°C @ 546W	P12733-ND	395.01	EUMFD60Y28A

P12734-ND Power Choke For FD Series L0=2.54µH @ 0A, L1=1.75µH @ 25A, DCR=2.2mOhms **$10.01**

Panasonic® DC-DC Converters

Miniature, light and high efficiency Hybrid IC style switching type DC/DC converters. The DC/DC converter is accomplished by means of switching mode control without a transformer. When used with a simple rectifier circuit they can be connected directly to AC.

Features: • With over current protector.
Recommended Applications: • Power supply for microcomputer, fan motor, LED, buzzer and sensor circuit of household electric equipment.

Fig. 1

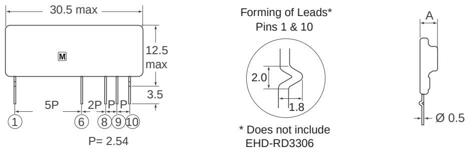

No.	Function
1	IN
2	—
3	—
4	—
5	—
6	GND
7	—
8	L1-1
9	OUT
10	L1-2

Fig. 2

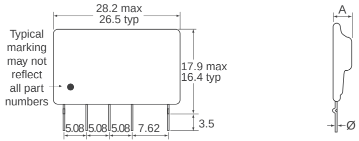

*EHD-RD3363 Pins 3 & 5 Reversed

No.	Function
1	OUT
2	—
3*	L1-1
4	—
5*	L1-2
6	—
7	GND
8	—
9	—
10	IN

Fig. 3

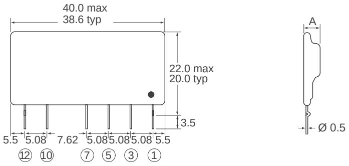

No.	Function	No.	Function
1	OUT	2	—
3	L1-1	4	—
5	L1-2	6	—
7	GND	8	—
9	—	10	NC
11	—	12	IN

Fig. 4

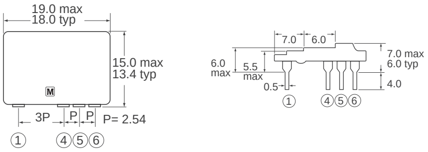

No.	Function
1	IN
2	—
3	—
4	GND
5	TP
6	OUT

Fig. 5

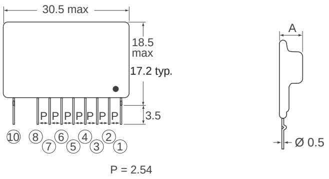

No.	Function	No.	Function
1	OUT	2	NC
3	NC	4	NC
5	GND	6	NC
7	NC	8	NC
9	—	10	IN

Fig. 6

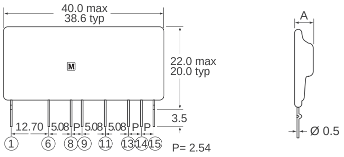

No.	Function	No.	Function
1	NC	2	—
3	—	4	—
5	—	6	IN
7	—	8	NC
9	GND	10	—
11	L1-1	12	—
13	L1-2	14	NC
15	OUT		

Fig. 7

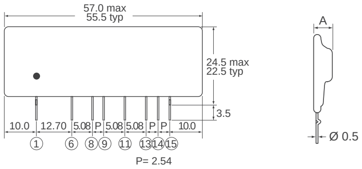

No.	Function	No.	Function
1	NC	2	—
3	—	4	—
5	—	6	IN
7	—	8	NC
9	GND	10	—
11	L1-1	12	—
13	L1-2	14	NC
15	OUT		

Fig. 8 ***NEW!***

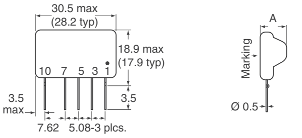

No.	Function	No.	Function
1	OUT	2	—
3	NC	4	—
5	GND	6	—
7	NC	8	—
9	—	10	IN

Fig.	Input Voltage (VDC) (Min.)	Input Voltage (VDC) (Typ.)	Input Voltage (VDC) (Max.)	Output Voltage (VDC) (Min.)	Output Voltage (VDC) (Typ.)	Output Voltage (VDC) (Max.)	Output Current (Max.)	Dimensions (A) (Typ.)	Dimensions (A) (Max.)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 25	Panasonic Part No.
1	113	141	170	4.75	5.10	5.35	100mA	—	6.0	P11447-ND	7.44	5.45	5.10	EHD-RD3303
2	113	141	170	11.0	12.0	13.0	200mA	4.3	6.0	P11448-ND	7.52	5.51	5.16	EHD-RD3324
	113	141	190	11.0	12.0	13.0	200mA	4.3	6.0	P13450-ND ***NEW!***	6.75	4.94	4.62	EHD-RD3324Y
	113	141	195	18.5	20	21.5	200mA	4.3	6.0	P13454-ND ***NEW!***	9.07	6.64	6.21	EHD-RD3357
	113	141	170	23.0	24.6	25.5	200mA	4.3	6.0	P11449-ND	9.08	6.64	6.22	EHD-RD3362A
	113	141	170	23.0	24.6	25.5	200mA	4.3	6.0	P13452-ND ***NEW!***	8.16	5.97	5.59	EHD-RD3362B
	-113	-141	-170	-11.0	-12.0	-13.0	-250mA	4.3	7.0	P13453-ND ***NEW!***	10.81	7.91	7.41	EHD-RD3376
	-113	-141	-170	-31.5	-32.0	-32.5	-100mA	6.5	8.0	P11450-ND	5.46	4.00	3.74	EHD-RD3470
	-113	-141	-170	-31.4	-32.0	-32.6	-150mA	6.5	9.0	P11451-ND	5.68	4.16	3.90	EHD-RD3471
	-113	-141	-200	-22.5	-24.0	-25.5	-180mA	4.3	6.0	P11452-ND	5.85	4.29	4.01	EHD-RD3363
	-113	-141	-170	-11.0	-12.0	-13.0	-200mA	4.3	6.0	P11453-ND	6.90	5.05	4.73	EHD-RD3320
3	113	141	170	11.0	12.0	13.0	300mA	4.5	7.0	P11454-ND	7.64	5.59	5.23	EHD-RD3326
4	-113	-141	-170	-4.75	-5.10	-5.35	-30mA	—	—	P11455-ND	6.67	4.89	4.57	EHD-RD3306
5	90	141	170	11.0	12.0	13.0	100mA	—	10.0	P11456-ND	6.87	5.03	4.71	EHD-RD3323
	113	141	170	18.5	20.0	21.5	100mA	—	11.0	P11457-ND	9.81	7.18	6.72	EHD-RD3353
6	225	310	391	22.0	24.0	26.0	100mA	4.7	7.0	P11458-ND	9.25	6.77	6.34	EHD-RD3360
7	225	282	338	11.0	12.0	13.0	400mA	4.7	7.0	P11459-ND	12.16	8.90	8.33	EHD-RD3371
	225	282	338	23.0	24.0	25.0	400mA	4.7	7.0	P11460-ND	10.27	7.51	7.03	EHD-RD3364A
8	113	141	170	18.5	20	21.5	80mA	7.2	10	P13451-ND ***NEW!***	17.45	12.77	11.95	EHD-RD3356

Enclosed Switching Power Supplies

SXU SERIES

Features: • AC (AC85-132V) • Safety Approvals: UL, CSA • EMI: FCC Class “B”, CISPR-B, VCCI-2 • Built-in Overvoltage/Overcurrent Protection • Operating Temperature: 0°C ~ 50°C • Metal Chassis with Cover • Compact, Low-Profile Packages • Three Year Factory Warranty

General Specifications: • Input Frequency: 50/60Hz (47~63 Hz) • Output Adjust Range: ±10% • Over Voltage Protection: Zener Limiter (Output Shutdown: for 50, 100 and 150 Models). • Over Current Protection: Over 105% (Automatic Recovery). • Temperature Coefficient: 0.02% / °C • Rise Time: 100 mS maximum (at 25°C nominal input/output) & 300 mS maximum for 100 & 150 Models • Hold-Up Time: 20mS (typical) • Storage Temperature: Temperature: -20°C ~ 85°C • Humidity: 20-85% RH (Non Condensing) • Dielectric Withstanding Voltage: Models 15W, 30W & 50W: Primary - Secondary: AC 2000V / 1 minute, Primary Case: AC 2000V / 1 minute, Secondary Case: AC 500V / 1 minute. Models 100W & 150W: Primary - Secondary: AC 2000V / 1 minute, Primary Case: AC 1500V / 1 minute, Secondary Case: AC 500V / 1 minute • Leakage Current: 0.5 mA maximum • Isolation Resistance: Input-Output-Case 100MΩ minimum • Shock Test Procedures: .020” (0.5mm) width, 10-55 Hz / 1 minute cycle, 3 directions each 30 minutes 20G (3 directions each 3 times).

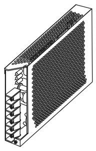

Derating Temperature:

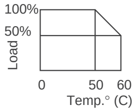

Input Voltage	Input Current A(typ)	Inrush Current A(typ)	Output Voltage (VDC)	Output Current (A)	Effi-ciency	Line Reg. (mV)	Load Reg. (mV)	Ripple Noise (mVp-p)	Dimensions Inch (mm) HxWxD	Digi-Key Part No.	Price Each 1	10	25	50	KAGA ELECTRONICS Part No.
SX15U — 15 Watts															
85 - 132	0.3	10	5	3.0	73%	20	40	100	1.34 x 2.72 x 3.31 (34 x 69 x 84)	62-1001-ND	51.08	46.71	39.13	37.88	SX15U-05S
	0.3	10	12	1.3	76%	40	60	150		62-1002-ND	51.08	46.71	39.13	37.88	SX15U-12S
	0.3	10	15	1.0	76%	40	60	150		62-1003-ND	51.08	46.71	39.13	37.88	SX15U-15S
	0.3	10	24	0.7	78%	60	150	200		62-1004-ND	51.08	46.71	39.13	37.88	SX15U-24S
SX30U — 30 Watts															
85 - 132	0.7	20	12	2.6	76%	30	60	150	1.34 x 2.72 x 4.09 (34 x 69 x 104)	62-1006-ND	56.35	51.52	43.20	41.81	SX30U-12S
	0.7	20	24	1.4	79%	30	60	150		62-1008-ND	56.35	51.52	43.20	41.81	SX30U-24S
SX50U — 50 Watts															
85 - 132	1.1	28	12	4.2	78%	40	120	150	1.46 x 3.35 x 4.69 (37 x 85 x 119)	62-1010-ND	68.60	62.72	52.71	51.01	SX50U-12S
	1.1	28	15	3.4	78%	40	120	150		62-1011-ND	68.60	62.72	52.71	51.01	SX50U-15S

SP and SPN SERIES Universal Input

Features:

• Universal Input (AC85-264V) • International Safety Approvals including: IEC801-2, -3, -4 & EMI: FCC Class “B”, EN55022-B, VCCI-II, CE • Built-in Overvoltage/Overcurrent Protection • Operating Temperature: 0°C ~ 60°C • Lightweight Construction • Metal Chassis with Cover • 3 Year Factory Warranty

General Specifications:

• Input Frequency: 50/60Hz (47-63 Hz) • Output Adjust Range: ±10% • Output Ripple (100/230VAC, Full load): 150mV / 75mVp-p maximum DC-100MHz • Over Voltage Protection: Zener Limiter • Over Current Protection: Over 105% (Auto. Recovery) • Temperature Coefficient: 0.02% / °C maximum • Rise Time: 1600 mS maximum • Storage Temperature and Humidity: Temperature: -20°C ~ 85°C. Humidity: 20-85% RH (Non Condensing) • Dielectric Withstanding Voltage: Primary - Secondary: AC 3000V / 1 minute, Primary Case: AC 1500V / 1 minute, Secondary Case: AC 500V / 1 minute • Leakage Current (100 / 230VAC): 0.5 / 0.75 mA maximum • Isolation Resistance: Input-Output-Case 100MΩ minimum • Shock Test Procedures: Vibration: .020” (0.5mm) width, 10-50 Hz / 1 minute cycle, 3 directions each 30 minutes, Shock: 20G (3 directions each 3 times)

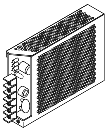

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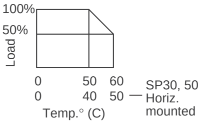

Single Output

Input Voltage	Input Current A(typ)	Hold-Up Time mS(typ)	Inrush Current A(typ)	Output Volt. (VDC)	Output Current (A) @115V	@230V	Effi-ciency	Line Reg. (mV)	Load Reg. (mV)	Dimensions Inch (mm) HxWxD	Digi-Key Part No.	Price Each 1	10	25	50	KAGA ELECTRONICS Part No.
SP15U — 15 Watts																
85-264	0.28-0.17	20-100	12-24	3.3	3.0	3.6	70%	20	40	1.30 x 2.95 x 4.21 (33 x 75 x 107)	62-1021-ND	59.50	54.40	45.66	44.20	SP15U-03S
SP30U — 30 Watts																
85-264	0.5-0.33	30-180	12-28	3.3	6.0	7.0	70%	20	40	1.30 x 3.11 x 4.88 (33 x 79 x 124)	62-1027-ND	70.00	64.00	53.79	52.07	SP30U-03S
SP50U — 50 Watts																
85-264	0.8-0.52	35-210	18-45	3.3	10.0	12.0	70%	20	60	1.30 x 3.50 x 6.46 (33 x 89 x 164)	62-1033-ND	89.60	81.20	75.41	72.98	SP50U-03S
SPN15 — 15 Watts																
85-264	1-1.3	50	13-31	5	3.0	3.6	75%	10	40	1.26 x 2.8 x 3.41 (32 x 71 x 86.5)	62-1060-ND	50.66	44.33	40.53	32.93	SPN15-05S
	1-1.3	50	13-31	12	1.25	1.5	78%	10	40		62-1061-ND	50.66	44.33	40.53	32.93	SPN15-12S
	1-1.3	50	13-31	15	1.0	1.2	79%	10	40		62-1062-ND	50.66	44.33	40.53	32.93	SPN15-15S
	1-1.3	50	13-31	24	0.65	0.8	80%	20	80		62-1063-ND	50.66	44.33	40.53	32.93	SPN15-24S
	1-1.3	50	13-31	48	0.3	0.4	80%	40	160		62-1064-ND	50.66	44.33	40.53	32.93	SPN15-48S
SPN30 — 30 Watts																
85-264	1-1.3	50	13-31	5	6.0	6.0	75%	10	40	1.26 x 2.95 x 4.39 (32 x 75 x 111.5)	62-1065-ND	64.00	56.00	51.20	41.60	SPN30-05S
	1-1.3	50	13-31	12	2.6	3.0	78%	10	40		62-1066-ND	64.00	56.00	51.20	41.60	SPN30-12S
	1-1.3	50	13-31	15	2.1	2.5	79%	10	40		62-1067-ND	64.00	56.00	51.20	41.60	SPN30-15S
	1-1.3	50	13-31	24	1.4	1.5	80%	20	80		62-1068-ND	64.00	56.00	51.20	41.60	SPN30-24S
	1-1.3	50	13-31	48	0.7	0.8	80%	40	160		62-1069-ND	64.00	56.00	51.20	41.60	SPN30-48S
SPN50 — 50 Watts																
85-264	1-1.3	50	13-31	5	10	10	75%	10	40	1.46 x 3.17 x 5.29 (37 x 80 x 134.5)	62-1070-ND	71.17	65.08	61.01	52.88	SPN50-05S
	1-1.3	50	13-31	12	4.2	5	78%	10	40		62-1071-ND	71.17	65.08	61.01	52.88	SPN50-12S
	1-1.3	50	13-31	24	2.1	2.5	80%	20	80		62-1072-ND	71.17	65.08	61.01	52.88	SPN50-24S
	1-1.3	50	13-31	48	1.1	1.1	80%	40	160		62-1073-ND	71.17	65.08	61.01	52.88	SPN50-48S
SPN75 — 75 Watts																
85-264	0.55-1.0	40-50	16-39	5	15.0	15.0	78%	10	40	1.52 x 3.47 x 7.00 (39 x 88 x 178)	62-1040-ND	89.08	84.24	80.00	75.75	SPN75-05S
	0.55-1.0	40-50	16-39	12	6.5	6.5	82%	10	20		62-1041-ND	89.08	84.24	80.00	75.75	SPN75-12S
	0.55-1.0	40-50	16-39	24	3.2	3.2	83%	20	40		62-1042-ND	89.08	84.24	80.00	75.75	SPN75-24S
	0.55-1.0	40-50	16-39	48	1.6	1.6	83%	20	40		62-1043-ND	89.08	84.24	80.00	75.75	SPN75-48S
SPN100 — 100 Watts																
85-264	0.66-1.3	50	15-25	5	20.0	20.0	79%	10	20	1.54 x 3.66 x 8.15 (39 x 93 x 207)	62-1044-ND	118.48	112.04	106.40	100.75	SPN100-05S
	0.66-1.3	50	15-25	12	8.6	8.6	83%	10	20		62-1045-ND	118.48	112.04	106.40	100.75	SPN100-12S
	0.66-1.3	50	15-25	15	7.0	7.0	83%	10	20		62-1046-ND	118.48	112.04	106.40	100.75	SPN100-15S
	0.66-1.3	50	15-25	24	4.4	4.4	83%	20	40		62-1047-ND	118.48	112.04	106.40	100.75	SPN100-24S
	0.66-1.3	50	15-25	48	2.2	2.2	84%	20	40		62-1048-ND	118.48	112.04	106.40	100.75	SPN100-48S
SPN150 — 150 Watts																
85-264	1.00-1.3	50	13-31	5	30.0	30.0	78%	10	20	1.77 x 4.21 x 8.5 (45 x 107 x 216)	62-1049-ND	142.49	134.74	127.95	121.17	SPN150-05S
	1.00-1.3	50	13-31	12	13.0	13.0	82%	10	20		62-1050-ND	142.49	134.74	127.95	121.17	SPN150-12S
	1.00-1.3	50	13-31	24	6.5	6.5	83%	20	40		62-1051-ND	142.49	134.74	127.95	121.17	SPN150-24S
	1.00-1.3	50	13-31	48	3.3	3.3	83%	20	40		62-1052-ND	142.49	134.74	127.95	121.17	SPN150-48S

(Continued)

Triple Output (no minimum load required)

Input Voltage	Hold-Up Time Ms(typ)	Output Voltage (VDC)	Output Current (A)	Line Reg. (mV)	Load Reg (mV)	Ripple Noise (mVp-p)	Dimensions Inch (mm) HxWxD	Digi-Key Part No.	Price Each 1	10	25	50	KAGA ELECTRONICS Part No.
							SP15U — 15 Watts						
85-264	20	5V	2.0	40	100	150	4.68 x 3.29 x 1.27 (119 x 84 x 32)	62-1088-ND	76.77	70.20	62.67	60.94	SP15U-0522T
	20	12V	.50	40	100	150							
	20	-12V	.50	40	100	150							
85-264	20	5V	2	40	100	150	4.68 x 3.29 x 1.27 (119 x 84 x 32)	62-1074-ND	76.77	70.20	62.67	60.94	SP15U-0533T
	20	15V	.45	40	100	150							
	20	-15V	.45	40	100	150							
							SP30U — 30 Watts						
85-264	20	5V	4.0	40	100	150	5.87 x 3.5 x 1.3 (149 x 89 x 33)	62-1089-ND	98.23	89.81	86.36	77.96	SP30U-0522T
	20	12V	1.2	40	100	150							
	20	-12V	.60	40	100	150							
85-264	20	5V	4	40	100	150	5.87 x 3.5 x 1.3 (149 x 89 x 33)	62-1075-ND	98.23	89.81	86.36	77.96	SP30U-0533T
	20	15V	1	40	100	150							
	20	-15V	.5	40	100	150							
							SP50U — 50 Watts						
85-264	20	5V	6.0	40	200	150	6.46 x 3.66 x 1.30 (164 x 93 x 33)	62-1090-ND	142.80	130.56	116.57	113.34	SP50U-0522T
	20	12V	2.0	40	200	150							
	20	-12V	1.0	40	200	150							
							SP80U — 80 Watts						
85-264	20	5V	10	40	200	150	7.48 x 3.94 x 1.58 (190 x 100 x 40)	62-1077-ND	176.17	161.08	143.80	139.82	SP80U-0533T
	20	15V	2.8	40	200	150							
	20	-15V	1.2	40	200	150							

Open Frame Power Supplies

Features:

• Universal Input (AC85-264V) • International Safety Approvals including: IEC801-2, -3, -4 & EMI: FCC Class "B", EN55022-B, VCCI-II, CE • Built-in Overvoltage/Overcurrent Protection • Operating Temperature: 10°C ~ 70°C • Lightweight Construction • Metal Chassis with Cover (optional on KLT series only) • 3 Year Factory Warranty

General Specifications:

• Input Frequency: 50/60Hz (47-63 Hz) • Output Adjust Range: ±10% on KLT series (no adjustment on KRS series) • Output Ripple (100/230VAC, Full load): 150mV / 75mVp-p maximum DC-100MHz • Over Voltage Protection: Zener Limiter • Over Current Protection: Over 105% (Auto. Recovery) • Temperature Coefficient: 0.02%/ °C maximum • Rise Time: 1600 mS maximum • Storage Temperature and Humidity: Temperature: -20°C ~ 85°C • Humidity: 20-85% RH (Non Condensing) • Dielectric Withstanding Voltage: Primary - Secondary: AC 3000V / 1 minute, Primary Case: AC 1500V / 1 minute, Secondary Case: AC 500V / 1 minute • Leakage Current (100 / 230 VAC): 0.5 / 0.75 mA maximum • Isolation Resistance: Input-Output-Case 100MΩ minimum • Shock Test Procedures: Vibration: .020" (0.5mm) width, 10-50 Hz / 1 minute cycle, 3 directions each 30 minutes, Shock: 20G (3 directions each 3 times)

KRS10F Series
PC Mount — Footprint 1.26" x 2.56"(32mm x 65.02mm)

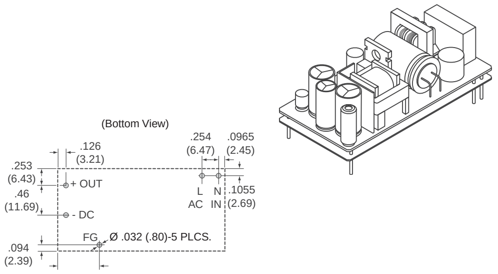

KLT Series

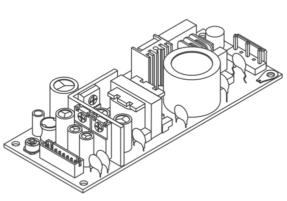

KRS10F SERIES (PC Mount) —
Single Output

Input Voltage	Output Voltage (VDC)	Output Current (A)	Line Reg. (mV)	Load Reg. (mV)	Dimensions Inch (mm) W x L x D	Digi-Key Part No.	Price Each 1	10	25	50	KAGA ELECTRONICS Part No.
85-264	5	2.00	20	50	1.26 x 2.56 x .65 (32 x 65.02 x 16.51)	62-1078-ND	21.87	19.83	19.53	18.99	KRS10F-05
	12	0.84	20	50		62-1079-ND	21.87	19.83	19.53	18.99	KRS10F-12
	15	0.65	20	50		62-1080-ND	21.87	19.83	19.53	18.99	KRS10F-15
	24	0.42	20	50		62-1081-ND	21.87	19.83	19.53	18.99	KRS10F-24

KLT SERIES —
Triple Output

Input Voltage	Output Voltage (VDC)	Output Current (A)	Line Reg. (mV)	Load Reg (mV)	Input Housing	Contacts	Output Housing	Contacts	Dimensions Inch (mm) LxWxH	Digi-Key Part No.	Price Each 1	10	25	50	KAGA ELECTRONICS Part No.
							15 Watt								
85-264	5V	2.0	50	100	455-1186-ND	455-1319-1-ND	455-1902-ND	455-1135-1-ND	5.512 x 2.559 x .89 (140 x 65 x 22.60)	62-1082-ND	44.67	40.49	39.89	38.78	KLT15F-0522
	12V	.50	50	120											
	-12V	.50	50	120											
85-264	5V	2.0	50	100	455-1186-ND	455-1319-1-ND	455-1902-ND	455-1135-1-ND	5.512 x 2.559 x .89 (140 x 65 x 22.60)	62-1083-ND	44.67	40.49	39.89	38.78	KLT15F-0533
	15V	.45	50	120											
	-15V	.45	50	120											
Cover for KLT15 Power Supplies										62-1084-ND	8.80	7.98	—	—	KLT15 COVER
							30 Watt								
85-264	5V	4.0	50	100	455-1186-ND	455-1313-1-ND	455-1187-ND	455-1313-1-ND	5.512 x 2.559 x .89 (140 x 65 x 22.60)	62-1085-ND	50.35	45.64	44.96	43.71	KLT30F-0522
	12V	1.2	50	120											
	-12V	.50	50	120											

CUI INC

Wall Transformers and Power Supplies

• Cord Lengths are 6 feet (1.83 meters); Medical Supplies have 4 feet (1.2 meter) cords • All transformers are UL listed and most are also CSA approved • T856 through T858 are 1 meter long • **For Mating product see Connector Section**

Fig. 1 — Multi-Plug

FEATURES:

• Interchangeable AC plug • Universal Input: 90~264VAC • Continuous short circuit protection • Conductive EMI meets CISPR/FCC Class B • High Efficiency: 75% typical • Operating Temperature: 0°C ~ 40°C

Safety Requirements:

(1) UL60950 3rd edition (The blade configuration was evaluated to the Standard for Attachment Plugs and Receptacles, UL498) **(2)** cUL, CSA C22.2, No. 60950 **(3)** TUV, EN60950:2000 **(4)** CE

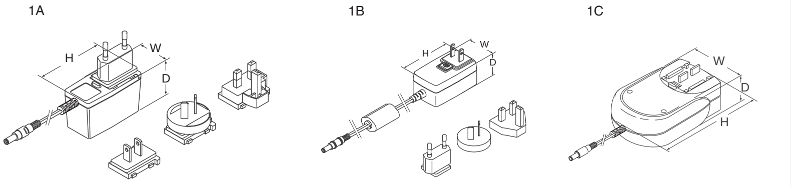

Additional plug options

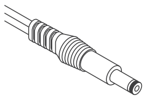

NOW AVAILABLE! CUI INC Custom Plug Overmolding without large minimum orders and long lead times! Straight or right angle plugs are available in the following sizes: P1, P5, P6, P7 or P13.

For additional plug and polarity options available, please call Digi-Key and request technical assistance to build your custom part number.

(Overmolding Service not available on Medical Switching Power Supplies.)

BUILD YOUR PART NUMBER: ***DPS120125-*** ☐ ☐ ☐ ☐

	Z	5	R	P
		6		N
		7		

Choose an In stock CUI Power Supply
Z: special over molding code
Choose P1, P5, P6, P7 or P13 plug options
If applicable: R-Right angle
P or N: For DC Output choose Center Positive or Negative

- Lead-Time: 2 weeks
- Non-Standard plug barrel lengths are available upon request
- Minimum Order: 100 pieces

P-1 (3.5mm Male)

Tip is Positive, Sleeve is Negative

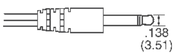

P-5 (2.1mm Female)

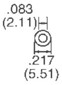

Polarization

⊕—•—⊖

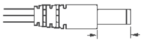

▲ 9.5mm Long Plugs
◆ 12mm Long Plugs

P-6 (2.5mm Female)

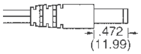

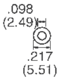

Polarization

⊕—•—⊖

P-7 (1.3mm Female)

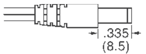

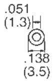

Polarization

⊕—•—⊖

P-13 (1.7mm Female)

Polarization

⊕—•—⊖

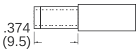

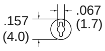

	Ratings			Dimensions Inches (mm)	Cord	Digi-Key	Price Each				CUI Inc.
Fig.	**Voltage**	**mA**	**Reg.**	**H x W x D**	**Plug**	**Part No.**	**1**	**10**	**50**	**100**	**Part No.**
Multi-Plug											
1A	3.3VDC	1600	±4%	2.83 x 1.38 x 1.81 (72 x 35 x 46)	P-5▲	T360-P5P-ND	19.72	18.25	17.26	15.78	DMS033160-P5-IC
	24VDC	400	±2%	2.83 x 1.38 x 1.81 (72 x 35 x 46)	P-5▲	T365-P5P-ND	19.72	18.25	17.26	15.78	DMS240040-P5-IC
1B	5VDC	2600	±5%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	P-5◆	T371-P5P-ND	16.36	15.54	14.32	13.63	DMS050260-P5P-SZ
	6VDC	2500	±5%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	P-5◆	T372-P5P-ND	16.36	15.54	14.32	13.63	DMS060250-P5P-SZ
	24VDC	630	±5%	2.91 x 1.71 x 1.34 (74 x 43.5 x 34)	P-5◆	T376-P5P-ND	16.36	15.54	14.32	13.63	DMS240063-P5P-SZ
1C	5VDC	5000	±6%	4.24 x 2.27 x 1.32 (108 x 58 x 33)	P-5▲	T366-P5P-ND	37.64	34.82	32.94	30.11	DMS050500-P5P-IC
	9VDC	3300	±3%	4.24 x 2.27 x 1.32 (108 x 58 x 33)	P-5▲	T367-P5P-ND	37.64	34.82	32.94	30.11	DMS090330-P5P-IC
	12VDC	2500	±2%	4.24 x 2.27 x 1.32 (108 x 58 x 33)	P-5▲	T368-P5P-ND	37.64	34.82	32.94	30.11	DMS120250-P5P-IC
	15VDC	2000	±2%	4.24 x 2.27 x 1.32 (108 x 58 x 33)	P-5▲	T369-P5P-ND	37.64	34.82	32.94	30.11	DMS150200-P5P-IC
	24VDC	1250	±2%	4.24 x 2.27 x 1.32 (108 x 58 x 33)	P-5▲	T370-P5P-ND	37.64	34.82	32.94	30.11	DMS240125-P5P-IC
US/Canada Transformer 120VAC/60Hz Input											
2	3VDC	400	No	2.33 x 1.50 x 1.35 (59.20 x 38 x 34.20)	P-7	T207-P7P-ND	5.43	4.34	3.80	3.61	DPD030040-P7P-TK
	4.5VDC	300	No	2.33 x 1.50 x 1.35 (59.20 x 38 x 34.20)	P-7	T208-P7P-ND	5.43	4.34	3.80	3.61	DPD045030-P7P-TK
	6VDC	250	No	2.33 x 1.50 x 1.35 (59.20 x 38 x 34.20)	P-7	T209-P7P-ND	5.45	4.36	3.82	3.62	DPD060025-P7P-TK
	9VDC	150	No	2.33 x 1.50 x 1.35 (59.20 x 38 x 34.20)	P-7	T210-P7P-ND	5.35	4.28	3.75	3.56	DPD090015-P7P-TK
	12VDC	100	No	2.33 x 1.50 x 1.35 (59.20 x 38 x 34.20)	P-7	T211-P7P-ND	5.43	4.34	3.80	3.61	DPD120010-P7P-TK
	5VDC	550	No	2.32 x 1.77 x 1.56 (59 x 45 x 39.5)	P-13	T313-P13P-ND	6.15	4.92	4.31	4.09	DPD050055-P13P-TK
		300	5%	2.50 x 1.72 x 1.72 (63.60 x 43.70 x 38.80)	P-6	T314-P6P-ND	7.38	5.90	5.17	4.90	DPR050030-P6P-SZ
		1500	5%	4.72 x 3.07 x 2.48 (119.89 x 77.98 x 62.99)	P-5◆	T311-P5P-ND•	37.42	32.75	31.06	27.13	DTR050150-P5P
	9VDC	200	No	2.33 x 1.50 x 1.35 (59.20 x 38 x 34.20)	P-5◆	T415-P5P-ND	5.45	4.36	3.82	3.62	DPD090020-P5P-TK
		200	No	2.33 x 1.50 x 1.35 (59.20 x 38 x 34.20)	P-1	T416-P1P-ND	5.45	4.36	3.82	3.62	DPD090020-P1P-TK
		300	No	1.35 x 1.50 x 2.53 (34.20 x 38 x 64.20)	P-1	T417-P1P-ND	5.53	4.42	3.87	3.67	DPD090030-P1P-TK
		500	No	2.52 x 1.77 x 1.56 (64 x 45 x 39.5)	P-1	T418-P1P-ND	6.43	5.14	4.50	4.27	DPD090050-P1P-TK
		500	No	2.52 x 1.77 x 1.56 (64 x 45 x 39.10)	P-5◆	T419-P5P-ND	6.43	5.14	4.50	4.27	DPD090050-P5P-TK
		650	No	2.59 x 1.96 x 1.59 (66 x 50 x 40.50)	P-5▲	T514-P5P-ND	6.58	5.26	4.61	4.37	DPD090065-P5P-SZ
		800	5%	3.21 x 2.31 x 1.93 (81.60 x 58.70 x 49.10)	P-5◆	T435-P5P-ND	12.03	9.62	8.42	7.99	DPR090080-P5P-SZ
		1000	No	3.06 x 2.19 x 1.77 (77.60 x 55.60 x 45)	P-1	T420-P1P-ND	8.53	6.82	5.97	5.67	DPD090100-P1P-TK
		1000	No	3.06 x 2.19 x 1.77 (77.60 x 55.60 x 45)	P-5◆	T421-P5P-ND	8.53	6.82	5.97	5.67	DPD090100-P5P-TK
	12VDC	50	No	2.15 x 1.67 x 1.46 (54.61 x 42.42 x 37.08)	P-1	T508-P1P-ND	3.78	3.59	3.14	3.03	DPD120005-P1P-SZ
		200	No	2.45 x 1.50 x 1.35 (62.20 x 38 x 34.20)	P-1	T422-P1P-ND	5.53	4.42	3.87	3.67	DPD120020-P1P-TK
		300	No	2.38 x 2.00 x 1.46 (60.45 x 50.80 x 37.08)	P-1	T501-P1P-ND	5.08	4.06	3.56	2.95	DPD120030-P1P
		300	No	2.32 x 1.77 x 1.56 (59 x 45 x 39.50)	P-5◆	T424-P5P-ND	6.25	5.00	4.38	4.15	DPD120030-P5P-TK
		300	No	2.32 x 1.77 x 1.56 (59 x 45 x 39.50)	P-13	T423-P13P-ND	6.25	5.00	4.38	4.15	DPD120030-P13P-TK
		500	No	2.72 x 1.77 x 1.54 (69 x 45 x 39.10)	P-1	T425-P1P-ND	6.48	5.18	4.54	4.30	DPD120050-P1P-TK
		500	No	2.72 x 1.77 x 1.54 (69 x 45 x 39.10)	P-5◆	T426-P5P-ND	6.48	5.18	4.54	4.30	DPD120050-P5P-TK
		800	No	3.35 x 2.19 x 1.77 (85 x 55.60 x 45)	P-1	T428-P1P-ND	7.98	6.38	5.59	5.30	DPD120080-P1P-TK
		800	No	3.25 x 2.19 x 1.77 (82.60 x 55.60 x 45)	P-5◆	T427-P5P-ND	7.98	6.38	5.59	5.30	DPD120080-P5P-TK
	24VDC	400	No	3.06 x 2.19 x 1.77 (77.60 x 55.60 x 45)	P-1	T432-P1P-ND	8.53	6.82	5.97	5.67	DPD240040-P1P-TK
		400	No	3.06 x 2.19 x 1.77 (77.60 x 55.60 x 45)	P-6	T431-P6P-ND	8.53	6.82	5.97	5.67	DPD240040-P6P-TK
	9VAC	600	No	2.32 x 1.77 x 1.56 (59 x 45 x 39.50)	S/T	T703-ND†	5.85	4.68	4.10	3.89	DPA090060-S/T-TK
	12VAC	300	No	2.15 x 1.67 x 1.46 (54.61 x 42.42 x 37.08)	S/T	T601-ND†	3.30	2.89	2.74	2.48	DPA120030-S/T-SZ

• Table Top Style † "S/T" = Stripped/Tinned § Center Tapped ▲ 9.5mm Long Plugs ◆ 12mm Long Plugs ⋆ Output Min. Current: 0.1A

★ ***For additional plug options available, please call Digi-Key and request technical assistance to build your part number. A minimum order and lead time will apply.***

(Continued)

Fig. 2 — US/Canada Transformer

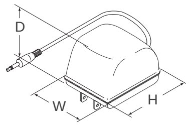

Fig. 3 — European Transformer

SPECIFICATIONS:
- **Safety Requirements:** TUV Approved

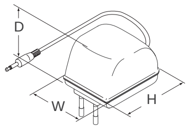

Fig. 4 — Switching Wall-Mount Power Supply

SPECIFICATIONS:
- **AC Input Voltage Range:** 90VAC to 264VAC Universal (T921-P5P-ND 100VAC to 120VAC)
- **AC Input Frequency:** 50Hz to 60Hz
- **Protection Type:** Over current, over voltage and short circuit protection (T921-P5P-ND have short circuit protection only)
- **Hold up time:** 10ms after loss of nominal AC input under full load condition
- **Operating Temperature:** 0°C ~ 40°C
- **Safety Requirements: (1)** UL60950 3rd edition **(2)** cUL • **Output:** No Min. Load
- **EMI Requirement: (1)** FCC class B **(2)** EN55022 class B

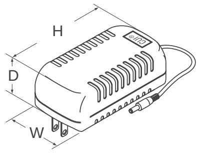

Fig. 5 — POWER PUP
Thin, Low-Profile Case Wall Transformer

SPECIFICATIONS:
- **AC Input Voltage:** 120VAC/60Hz
- **Operating Temperature:** -10°C ~ 40°C
- **Hi-Pot Test - 1mA for 1 Minute:** 1,500VAC Primary to Secondary and Primary to Core, 1,000VAC Secondary to Core
- **Protection Type:** Thermal
- **Safety Requirements: (1)** UL/cUL Approvals

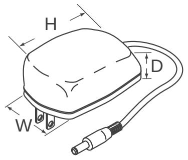

Fig. 6 — 12 Watt Power Strip Type

SPECIFICATIONS:
- **Input Voltage:** AC90V-264V
- **Frequency:** 50Hz to 60Hz
- **Min. Load Current:** 0A
- **Load Regulation:** 5%
- **Short Circuit and Overcurrent Protection:** Shutoff and Auto Restart
- **Safety Requirements: (1)** UL **(2)** cUL

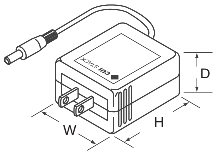

Fig.	Ratings Voltage	mA	Reg.	Dimensions Inches (mm) H x W x D	Cord Plug	Digi-Key Part No.	Price Each 1	10	50	100	CUI Inc. Part No.
US/Canada Transformer 120VAC/60Hz Input											
2	12VAC	1000	No	2.86 x 2.19 x 1.77 (72.60 x 55.60 x 45)	S/T	T623-ND†	6.45	5.16	4.52	4.29	DPA120100-S/T-TK
		1500	No	3.20 x 2.21 x 1.89 (81.28 x 56.13 x 48.01)	S/T	T613-ND†	13.38	10.70	9.37	8.89	DPA120150-S/T
		3300	No	3.50 x 2.68 x 2.16 (88.90 x 68.07 x 54.86)	S/T	T605-ND§†	23.60	18.88	16.52	15.68	DPA120333C-S/T
		600	No	2.32 x 1.77 x 1.56 (59 x 45 x 39.50)	P-1	T621-P1P-ND	6.05	4.84	4.24	4.02	DPA120060-P1-TK
		2000	No	3.30 x 2.48 x 2.16 (83.82 x 62.99 x 54.86)	P-1	T609-P1P-ND	14.28	11.42	10.00	9.48	DPA120200-P1P
European Transformer 230VAC/50Hz Input											
3	12VDC	800	No	3.46 x 2.50 x 2.06 (88 x 63.60 x 52.20)	P-5◆	T430-P5P-ND	10.05	8.04	7.04	6.68	DPD120080E-P5P-TK
Switching Wall-Mount Power Supply											
4	5VDC	4000	±7%	3.66 x 1.85 x 1.35 (93 x 47 x 34.20)	P-5◆	T940-P5P-ND	17.13	13.70	11.99	11.38	DPS050400U-P5P-TK
	6VDC	4000	±7%	3.66 x 1.85 x 1.35 (93 x 47 x 34.20)	P-5◆	T941-P5P-ND	17.13	13.70	11.99	11.38	DPS060400U-P5P-TK
	5VDC	3000	±6%	3.23 x 1.72 x 1.18 (82 x 43.50 x 30)	P-5◆	T935-P5P-ND	13.63	10.90	9.54	9.05	DPS050300U-P5P-TK
	6VDC	2500	5%	3.23 x 1.72 x 1.18 (82 x 43.50 x 30)	P-5◆	T936-P5P-ND	13.63	10.90	9.54	9.05	DPS060250U-P5P-TK
	9VDC	2750	5%	3.66 x 1.71 x 1.35 (93 x 47 x 34.20)	P-5◆	T942-P5P-ND	17.13	13.70	11.99	11.38	DPS090275U-P5P-TK
	9VDC	1670	5%	3.23 x 1.72 x 1.18 (82 x 43.50 x 30)	P-5◆	T937-P5P-ND	13.63	10.90	9.54	9.05	DPS090167U-P5P-TK
	12VDC	1250	5%	3.23 x 1.72 x 1.18 (82 x 43.50 x 30)	P-5◆	T938-P5P-ND	13.63	10.90	9.54	9.05	DPS120125U-P5P-TK
	12VDC	2000	±5%	3.66 x 1.71 x 1.35 (93 x 47 x 34.20)	P-5◆	T939-P5P-ND	17.13	13.70	11.99	11.38	DPS120200U-P5P-TK
	15VDC	1000	±5%	3.23 x 1.72 x 1.18 (82 x 43.50 x 30)	P-5◆	T943-P5P-ND	13.63	10.90	9.54	9.05	DPS150100U-P5P-TK
	24VDC	1000	±5%	3.66 x 1.71 x 1.35 (93 x 47 x 34.20)	P-5◆	T944-P5P-ND	17.13	13.70	11.99	11.38	DPS240100U-P5P-TK
POWER PUP											
5	9VDC	500	No	3.07 x 1.91 x 1.33 (78 x 48.5 x 33.9)	P-5◆	T413-P5P-ND	5.08	4.06	3.56	3.37	DPD090050-P5P-TC
12 Watt Power Strip Type											
6	5VDC	2000	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T450-P5P-ND	16.63	13.30	11.65	11.09	DPS050200UPS-P5P-SZ
	6VDC	2000	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T451-P5P-ND	16.63	13.30	11.65	11.09	DPS060200UPS-P5P-SZ
	9VDC	1300	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T460-P5P-ND	16.63	13.30	11.65	11.09	DPS090130UPS-P5P-SZ
	12VDC	1000	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T461-P5P-ND	16.63	13.30	11.65	11.09	DPS120100UPS-P5P-SZ
	18VDC	660	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T462-P5P-ND	16.63	13.30	11.65	11.09	DPS180066UPS-P5P-SZ
	24VDC	500	5%	2.36 x 1.73 x .98 (60 x 44 x 25)	P-5▲	T455-P5P-ND	16.63	13.30	11.65	11.09	DPS240050UPS-P5P-SZ
12 Watt Small Desk-Top											
8	5VDC	2500	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T850-P5P-ND	19.18	15.34	13.43	12.79	DTS050250SUDC-P5P-SZ
	6VDC	2000	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T851-P5P-ND	19.18	15.34	13.43	12.79	DTS060200SUDC-P5P-SZ
	9VDC	1330	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T852-P5P-ND	19.18	15.34	13.43	12.79	DTS090133SUDC-P5P-SZ
	12VDC	1000	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T853-P5P-ND	19.18	15.34	13.43	12.79	DTS120100SUDC-P5P-SZ
	18VDC	670	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T854-P5P-ND	19.18	15.34	13.43	12.79	DTS180067SUDC-P5P-SZ
	24VDC	500	5%	2.91 x 1.81 x .98 (74 x 46 x 25)	P-5▲	T855-P5P-ND	19.18	15.34	13.43	12.79	DTS240050SUDC-P5P-SZ
15 Watt Two-Prong Inlet Type											
8	6VDC	2500	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T551-P5P-ND	21.45	17.16	15.02	14.31	DTS060250UDC-P5P
	24VDC	620	5%	3.54 x 2.28 x 1.10 (90 x 58 x 28)	P-5▲	T554-P5P-ND	21.45	17.16	15.02	14.31	DTS240062UDC-P5P
25 Watt Desk-Top Series											
7	5VDC	4000	±7%	4.13 x 1.91 x 1.39 (105 x 48.50 x 35.20)	P-5◆	T566-P5P-ND	19.88	15.90	13.92	13.20	DTS050400UDC-P5P-TK
	6VDC	4000	±7%	4.13 x 1.91 x 1.39 (105 x 48.50 x 35.20)	P-5◆	T567-P5P-ND	19.88	15.90	13.92	13.20	DTS060400UDC-P5P-TK
	9VDC	2750	±5%	4.13 x 1.91 x 1.39 (105 x 48.50 x 35.20)	P-5◆	T568-P5P-ND	19.88	15.90	13.92	13.20	DTS090275UDC-P5P-TK

• Table Top Style † "S/T" = Stripped/Tinned § Center Tapped ▲ 9.5mm Long Plugs ◆ 12mm Long Plugs ⋆ Output Min. Current: 0.1A

★ ***For additional plug options available, please call Digi-Key and request technical assistance to build your part number. A minimum order and lead time will apply.***

(Continued)

Fig. 7 — Desk-Top Series

SPECIFICATIONS:

- **Input Voltage Range:** AC90V-264V
- **Frequency:** 50Hz to 60Hz
- **Load Regulation:** Check Model information below
- **Min. Load Current:** 0A
- **Short Circuit and Over-current Protection:** Shutoff and Auto Restart
- **Safety Requirements:** **(1)** UL **(2)** cUL **(3)** TUV **(4)** CE

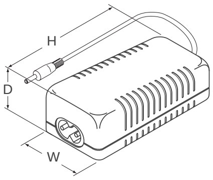

Fig. 8 — Small Desk-Top Series

SPECIFICATIONS:

- **Input Voltage Range:** AC90V-264V
- **Frequency:** 50Hz to 60Hz
- **Load Regulation:** 5%
- **Min. Load Current:** 0A
- **Short Circuit and Over-current Protection:** Shutoff and Auto Restart
- **Safety Requirements:** **(1)** UL **(2)** cUL **(3)** TUV **(4)** CE

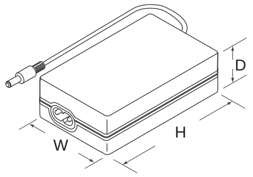

Fig. 9 — 50 Watt Desk-Top Series

SPECIFICATIONS:

- **Rated Input Voltage:** AC100V-240V
- **Safety Requirements:** **(1)** UL **(2)** CUL **(3)** ITS/GS **(4)** CE
- **EMI Requirement:** **(1)** Meet FCC; Class B, CE, VCCI-II

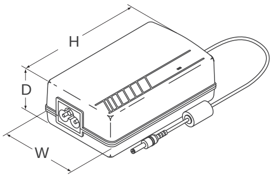

Fig. 10 — 60 Watt Desk -Top Series

SPECIFICATIONS:

- **Input Voltage Range:** AC90V-264V
- **Frequency:** 50Hz to 60Hz
- **Load Regulation:** 5%
- **Min. Load Current:** 0A
- **Short Circuit and Overcurrent Protection:** Shutoff and Auto Restart
- **Safety Requirements:** **(1)** UL **(2)** cUL **(3)** TUV **(4)** CE **(5)** DEMKO **(6)** FIMKO **(7)** SMEKO **(8)** NEMCO **(9)** LPS

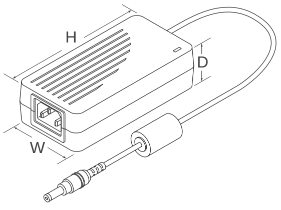

	Ratings			Dimensions Inches (mm)	Cord	Digi-Key	Price Each				CUI Inc.
Fig.	Voltage	mA	Reg.	H x W x D	Plug	Part No.	1	10	50	100	Part No.
7	12VDC	2000	±5%	4.13 x 1.91 x 1.39 (105 x 48.50 x 35.20)	P-5◆	T569-P5P-ND	19.88	15.90	13.92	13.20	DTS120200UDC-P5P-TK
	15VDC	1600	±5%	4.13 x 1.91 x 1.39 (105 x 48.50 x 35.20)	P-5◆	T570-P5P-ND	19.88	15.90	13.92	13.20	DTS150160UDC-P5P-TK
	24VDC	1000	±5%	4.13 x 1.91 x 1.39 (105 x 48.50 x 35.20)	P-5◆	T571-P5P-ND	19.88	15.90	13.92	13.20	DTS240100UDC-P5P-TK
50 Watt Desk-Top Series											
9	5VDC	6500	7%	4.26 x 2.60 x 1.42 (108.1 x 66 x 36.1)	P-5◆	T856-P5P-ND⋆	34.75	27.80	24.33	23.08	DTS050650UTC-P5P-SZ
	6VDC	6000	7%	4.26 x 2.60 x 1.42 (108.1 x 66 x 36.1)	P-5◆	T857-P5P-ND⋆	34.75	27.80	24.33	23.08	DTS060600UTC-P5P-SZ
	9VDC	5000	5%	4.26 x 2.60 x 1.42 (108.1 x 66 x 36.1)	P-5◆	T858-P5P-ND	27.80	25.72	24.33	22.24	DTS090500UTC-P5P-SZ
	12VDC	4200	5%	4.26 x 2.60 x 1.42 (108.1 x 66 x 36.1)	P-5◆	T859-P5P-ND	34.75	27.80	24.33	23.08	DTS120420UTC-P5P-SZ
	24VDC	2100	5%	4.26 x 2.60 x 1.42 (108.1 x 66 x 36.1)	P-5◆	T861-P5P-ND	34.75	27.80	24.33	23.08	DTS240210UTC-P5P-SZ
60 Watt Desk-Top Series											
10	15VDC	4000	5%	4.76 x 2.36 x 1.36 (121 x 60 x 34.5)	P-5▲	T825-P5P-ND	36.96	33.60	29.41	28.00	DTS150400UC-P5-ET
	18VDC	3300	5%	4.76 x 2.36 x 1.36 (121 x 60 x 34.5)	P-5▲	T826-P5P-ND	36.96	33.60	29.41	28.00	DTS180330UC-P5-ET
	24VDC	2500	5%	4.76 x 2.36 x 1.36 (121 x 60 x 34.5)	P-5▲	T827-P5P-ND	37.95	34.50	30.19	28.75	DTS240250UC-P5-ET

• Table Top Style † "S/T" = Stripped/Tinned § Center Tapped ▲ 9.5mm Long Plugs ◆ 12mm Long Plugs ⋆ Output Min. Current: 0.1A

★ ***For additional plug options available, please call Digi-Key and request technical assistance to build your part number. A minimum order and lead time will apply.***

V·INFINITY
A CUI INC. COMPANY

Open Frame Switching Power Supplies

Features:

- Universal Input Voltage: 90 ~ 264VAC, 47 ~ 63Hz
- Internal EMI filter
- Input Surge current, over voltage and over load protection
- Power factor correction
- Power fail detect (optional)
- Class I Insulation
- Two Year Warranty
- Operating Temperature: 0°C ~ 70°C
- Storage Temperature: -40°C ~ 85°C

Fig. 1

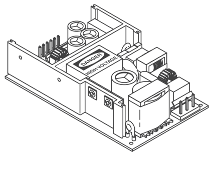

Fig. 2

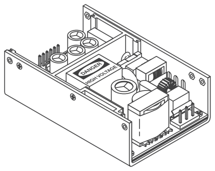

Output Power (Maximum)	Output Voltage (VDC)	Output Current (Typical)	Mating Connectors			Digi-Key	Price Each				V-Infinity
			Housing Input	Housing Output	Contacts	Part No.	1	10	25	50	Part No.
Fig. 1 — Single Output (Size: 3" x 5" x 1.28")											
120W	5.0	22A	WM2104	WM17404	WM2300	102-1267-ND	88.71	83.49	78.27	73.06	VSBU-120-5
	12	10A				102-1264-ND	88.71	83.49	78.27	73.06	VSBU-120-12
	24	5.0A				102-1265-ND	88.71	83.49	78.27	73.06	VSBU-120-24
	48	2.5A				102-1266-ND	87.01	81.89	76.77	71.66	VSBU-120-48
Fig. 1 — Dual Output (Size: 3" x 5" x 1.28")											
120W	5.0/12	15/6.0A	WM2104	WM17404	WM2300	102-1268-ND	90.61	85.28	79.95	74.62	VSBU-120-D512
	5.0/24	15/3.5A				102-1270-ND	90.61	85.28	79.95	74.62	VSBU-120-D524A
Fig. 1 — Triple Output (Size: 3" x 5" x 1.28")											
120W	3.3/5.0/12	15/6.0/1.0A	WM2104	WM17404	WM2300	102-1271-ND	94.16	88.63	83.09	77.55	VSBU-120-T3512B
	5.0/12/-12	15/6.0/0.8A				102-1272-ND	94.16	88.63	83.09	77.55	VSBU-120-T512A
Fig. 2 — Single Output (Size: 3" x 5" x 1.28")											
120W	5.0	22A	WM2104	WM17404	WM2300	102-1276-ND	97.58	91.84	86.10	80.36	VSUU-120-5
	12	10A				102-1273-ND	97.58	91.84	86.10	80.36	VSUU-120-12
	24	5.0A				102-1274-ND	97.58	91.84	86.10	80.36	VSUU-120-24
	48	2.5A				102-1275-ND	97.58	91.84	86.10	80.36	VSUU-120-48
Fig. 2 — Dual Output (Size: 3" x 5" x 1.28")											
120W	5.0/12	15/6.0A	WM2104	WM17404	WM2300	102-1277-ND	98.94	93.13	87.30	81.48	VSUU-120-D512
	5.0/24	15/3.5A				102-1278-ND	98.94	93.12	87.30	81.48	VSUU-120-D524A
Fig. 2 — Triple Output (Size: 3" x 5" x 1.54")											
120W	3.3/5.0/12	15/6.0/1.0A	WM2104	WM17404	WM2300	102-1279-ND	102.34	96.32	90.30	84.28	VSUU-120-T3512B
	5.0/12/-12	15/6.0/0.8A				102-1280-ND	102.34	96.32	90.30	84.28	VSUU-120-T512A

PTK10 Series

Features:

• Industry Standard Pin Out • Wide 4:1 Input Range • Fully Isolated • Over-Current Protection • Over-Voltage Protection • Six-Sided EMI Shielding • Constant Switching Frequency • High Efficiency • Compact Size (2.0" x 1.0" x 0.4") • 3 Year Warranty • Agency Standards: Designed to meet, UL1950, EN60950, CISPR22, CE

Pin Assignments	
Single Output	Dual Output
1. +Vin	1. +Vin
2. -Vin	2. -Vin
3. +Vout	3. +Vout
4. No pin	4. Com
5. -Vout	5. -Vout

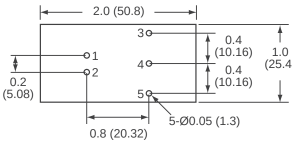

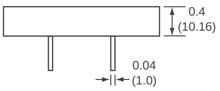

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (Max.)	Digi-Key Part No.	Price Each 1	10	25	50	V-Infinity Part No.
Single Output								
10-36	3.3	2.4A	102-1070-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S3
	5	2.0A	102-1071-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S5
	12	0.9A	102-1072-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S12
	15	0.7A	102-1230-ND	37.78	36.84	35.90	34.01	PTK10-Q24-S15
20-72	3.3	2.4A	102-1073-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S3
	5	2.0A	102-1074-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S5
	12	0.9A	102-1075-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S12
	15	0.7A	102-1234-ND	37.78	36.84	35.90	34.01	PTK10-Q48-S15
Dual Output								
10-36	±5	1.0A	102-1231-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D5
	±12	0.45A	102-1232-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D12
	±15	0.35A	102-1233-ND	39.24	38.26	37.28	35.32	PTK10-Q24-D15
20-72	±5	1.0A	102-1235-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D5
	±12	0.45A	102-1236-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D12
	±15	0.35A	102-1237-ND	39.24	38.26	37.28	35.32	PTK10-Q48-D15

PTK15 Series and PTK25 Series

Features:

• Industry Standard Pin Out • Fully Isolated • Output Voltage Trimmable • Output On/Off Control • Over-Current Protection • Agency Standards: Designed to meet, UL1950, EN60950, CISPR22, CE • Over-Voltage Protection • Six-Sided EMI Shielding • Constant Switching Frequency • High Efficiency • Compact Size 2.0" x 2.0" x 0.4" • 3 Year Warranty

Input:

• Parameter: Switching Frequency • PTK15; Nominal: 250KHz • PTK25; Nominal: 300KHz

Output:

• Parameter: Output Trim Range • Conditions/Description: With External Trim Resistors • Min.: -10% • Max.: +10%

Pin Assignments		
Single Output	Dual Output	Triple Output
1. +Vin	1. +Vin	1. +Vin
2. -Vin	2. -Vin	2. -Vin
3. No pin	3. No pin	3. No pin
4. CNT	4. CNT	4. CNT
5. NC	5. +Vout	5. +Vaux
6. +Vout	6. Com	6. +Vout
7. -Vout	7. -Vout	7. Com
8. Trim	8. Trim	8. -Vaux

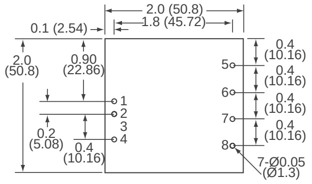

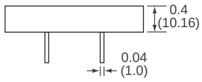

PTK25 Series with Screw Terminals

Features:

• U-Frame with Screw-Terminals • Wide 2:1 Input Range • Fully Isolated • Output Voltage Trimmable • Output On/Off Control • Over-Current Protection • Six-Sided EMI Shielding • 3 Year Warranty

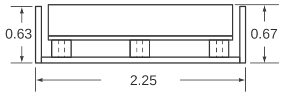

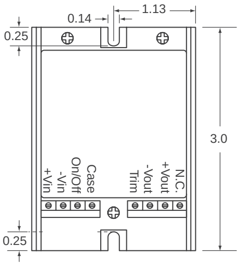

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (Maximum)	Digi-Key Part No.	Price Each 1	10	25	50	V-Infinity Part No.
PTK15 Series — Wide 4:1 Input Range								
Single Output								
10-36	3.3	4.0A	102-1076-ND	47.04	45.87	44.69	42.34	PTK15-Q24-S3
	5	3.0A	102-1077-ND	47.04	45.87	44.69	42.34	PTK15-Q24-S5
	12	1.25A	102-1078-ND	47.04	45.87	44.69	42.34	PTK15-Q24-S12
	15	1.0A	102-1209-ND	47.04	45.87	44.69	42.34	PTK15-Q24-S15
20-72	5	3.0A	102-1086-ND	47.04	45.87	44.69	42.34	PTK15-Q48-S5
	12	1.25A	102-1087-ND	47.04	45.87	44.69	42.34	PTK15-Q48-S12
	15	1.0A	102-1203-ND	47.04	45.87	44.69	42.34	PTK15-Q48-S15
Dual Output								
10-36	±5	1.5A	102-1079-ND	49.58	48.35	47.11	44.63	PTK15-Q24-D5
	±12	0.625A	102-1080-ND	49.58	48.35	47.11	44.63	PTK15-Q24-D12
	±15	0.5A	102-1210-ND	49.58	48.35	47.11	44.63	PTK15-Q24-D15
20-72	±12	0.625A	102-1089-ND	49.58	48.35	47.11	44.63	PTK15-Q48-D12
	±15	0.5A	102-1204-ND	49.58	48.35	47.11	44.63	PTK15-Q48-D15
Triple Output								
10-36	5/±12	1.5A/0.31A	102-1082-ND	49.58	48.35	47.11	44.63	PTK15-Q24-T512
	5/±15	1.5A/0.25A	102-1084-ND	49.58	48.35	47.11	44.63	PTK15-Q24-T515
20-72	5/±12	1.5A/0.31A	102-1091-ND	49.58	48.35	47.11	44.63	PTK15-Q48-T512
Chassis Kit for PTK15 Series			102-1296-ND	11.50	11.22	10.93	10.35	UF224S36
PTK25 Series — Wide 2:1 Input Range								
Single Output								
18-36	5	5.0A	102-1095-ND	71.00	69.23	67.45	63.90	PTK25-D24-S5
	12	2.0A	102-1096-ND	71.00	69.23	67.45	63.90	PTK25-D24-S12
	15	1.6A	102-1205-ND	71.00	69.23	67.45	63.90	PTK25-D24-S15
36-72	15	1.6A	102-1207-ND	71.00	69.23	67.45	63.90	PTK25-D48-S15
Dual Output								
18-36	±12	1.0A	102-1098-ND	74.78	72.92	71.05	67.31	PTK25-D24-D12
	±15	0.8A	102-1206-ND	74.78	72.92	71.05	67.31	PTK25-D24-D15
36-72	±15	0.8A	102-1208-ND	74.78	72.92	71.05	67.31	PTK25-D48-D15
Triple Output								
18-36	5/±15	3.5A/0.25A	102-1102-ND	74.78	72.92	71.05	67.31	PTK25-D24-T515
Chassis Kit for PTK25 Series			102-1297-ND	11.50	11.22	10.93	10.35	UF224S75
PTK25 Series — with Screw Terminals								
Single Output								
18-36	5	5.0A	102-1160-ND	83.00	80.93	78.85	74.70	PTK25-D24-S5-T
	12	2.0A	102-1161-ND	83.00	80.93	78.85	74.70	PTK25-D24-S12-T
36-72	5	5.0A	102-1162-ND	83.00	80.93	78.85	74.70	PTK25-D48-S5-T
	12	2.0A	102-1163-ND	83.00	80.93	78.85	74.70	PTK25-D48-S12-T

POL (Point of Load) Series

Fig. 1

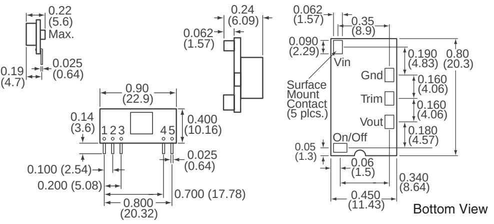

Pin Assignments
1. +Output
2. Trim
3. Common
4. +V Input
5. On/Off

Fig. 2

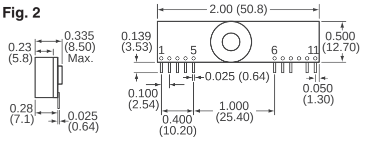

Pin Assignments

1. +Output	5. Common	9. No Pin
2. +Output	6. Common	10. Trim
3. +Sense	7. +V Input	11. On/Off Control
4. +Output	8. +V Input	

Fig. 3

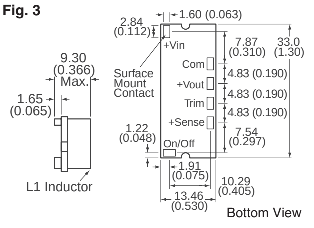

These "Point of Load" modules serve the needs specifically of the fixed and mobile telecommunications and computing market, employing economical distributed Power Architectures. Provide precisely regulated output voltage range from 0.75V to 5VDC over a wide range of input voltage and can operate over an ambient temperature range of -40°C ~ 85°C. Ultra-high efficiency operation is achieved through the use of synchronous rectification and drive control techniques. The modules are fully protected against short circuit and over-temperature conditions.

Features:

• Cost efficient open frame design • No minimum load requirement (Stable at all loads) • Remote On/Off • Continuous short-circuit protection and over current protection • Over-temperature protection (OTP) • UL/IEC/EN60950 Certified

Fig.	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (Max.)	Digi-Key Part No.	Price Each 1	10	25	50	Tape & Reel Size	Tape & Reel Pricing	V-Infinity Part No.
1	3.0 ~ 5.5	0.75 ~ 3.63	5A	102-1287-ND	14.60	13.51	13.14	12.78	—	—	VPOL5A-5-SIP
	3.0 ~ 5.5	0.75 ~ 3.63	5A	102-1288-1-ND†	14.60	13.51	13.14	12.78	500	5475.00	VPOL5A-5-SMT
	8.3 ~ 14	0.75 ~ 5.0	5A	102-1289-ND	14.60	13.51	13.14	12.78	—	—	VPOL5A-12-SIP
	8.3 ~ 14	0.75 ~ 5.0	5A	102-1290-1-ND†	14.60	13.51	13.14	12.78	500	5475.00	VPOL5A-12-SMT
2	3.0 ~ 5.5	0.9 ~ 3.63	15A	102-1291-ND	24.88	23.02	22.40	21.77	—	—	VPOL15A-5-SIP
3	3.0 ~ 5.5	0.9 ~ 3.63	15A	102-1292-1-ND†	24.88	23.02	22.40	21.77	250	4665.00	VPOL15A-5-SMT
2	9.0 ~ 14	0.75 ~ 5.0	16A	102-1293-ND	24.88	23.02	22.40	21.77	—	—	VPOL16A-12-SIP
3	9.0 ~ 14	0.75 ~ 5.0	16A	102-1294-1-ND†	24.88	23.02	22.40	21.77	250	4665.00	VPOL16A-12-SMT

† For Tape and Reel part number, change 1-ND to 2-ND.

(Continued)

VBED15 Series

Features:
• 15W Isolated Output • Efficiency to 83% • 2:1 Input Range • Compact Size (2.0" x 1.0" x 0.4") • Continuous Short Circuit Protection • Remote On/Off Control • Output Trim on Single Output Models

Pin Assignments	
1. +V Input	4. Trim/Common
2. -V Input	5. -V Output
3. +V Output	6. Remote*

*Common on dual output models only.

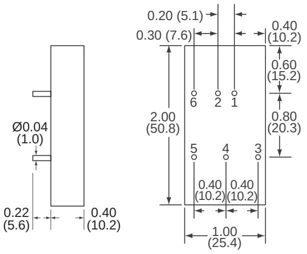

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (Max.)	Digi-Key Part No.	Price Each				V-Infinity Part No.
				1	10	25	50	
Single Output								
9-18	3.3	3A	102-1246-ND	45.10	43.98	42.85	40.59	VBED15-D12-S3R3-1A
	5	3A	102-1247-ND	45.10	43.98	42.85	40.59	VBED15-D12-S5-1A
	12	1.25A	102-1248-ND	45.10	43.98	42.85	40.59	VBED15-D12-S12-1A
18-36	3.3	3A	102-1250-ND	45.10	43.98	42.85	40.59	VBED15-D24-S3R3-1A
	5	3A	102-1251-ND	45.10	43.98	42.85	40.59	VBED15-D24-S5-1A
	12	1.25A	102-1252-ND	45.10	43.98	42.85	40.59	VBED15-D24-S12-1A
Dual Output								
9-18	±12	±.625A	102-1249-ND	50.96	49.69	48.42	45.87	VBED15-D12-D12-1
18-36	±12	±.625A	102-1253-ND	50.96	49.69	48.42	45.87	VBED15-D24-D12-1

VBS20 Series

Features:
• 6A Non-Isolated Output • Efficiency to 88% • Over Current Protection • Regulated Outputs • Compact Size (2.0" x 1.0" x 0.4") • Output Voltage Adjustable • Remote On/Off Control

Pin Assignments	
1. +Input	4. Trim
2. -Input	5. -Output
3. +Output	6. Remote On/Off

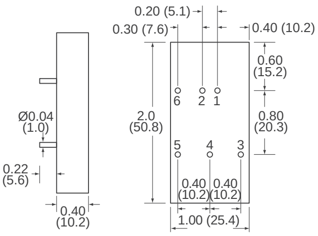

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (Max.)	Digi-Key Part No.	Price Each				V-Infinity Part No.
				1	10	25	50	
Single Output								
4.5-5.5	1.2	6A	102-1242-ND	35.90	35.01	34.11	32.31	VBS20-S5-1R2
	2.1	6A	102-1243-ND	35.90	35.01	34.11	32.31	VBS20-S5-2R1
	2.5	6A	102-1244-ND	35.90	35.01	34.11	32.31	VBS20-S5-2R5
	3.3	6A	102-1245-ND	35.90	35.01	34.11	32.31	VBS20-S5-3R3

VCD30 Series

Features:
• 25-30W Isolated Output • Efficiency to 85% • 2:1 Input Range • Six-Sided Shield • Compact Size (2.0" x 2.0" x 0.4") • Remote On/Off Control • Output Trimming

Pin Assignments	
Single Output	Dual Output
1. Remote on/off control	1. Remote on/off control
2. No pin	2. No pin
3. -Vin	3. -Vin
4. +Vin	4. +Vin
5. Trim	5. Trim
6. -Vout	6. -Vout
7. +Vout	7. Common
8. No pin	8. +Vout

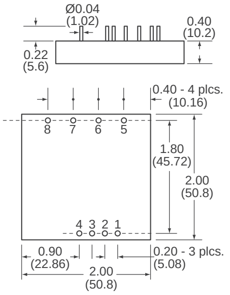

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (Max.)	Digi-Key Part No.	Price Each				V-Infinity Part No.
				1	10	25	50	
Single Output								
9-18	3.3	5A	102-1238-ND	71.00	69.23	67.45	63.90	VCD30-D12-S3R3
	5	5A	102-1239-ND	71.00	69.23	67.45	63.90	VCD30-D12-S5
	12	2.5A	102-1240-ND	71.00	69.23	67.45	63.90	VCD30-D12-S12
Dual Output								
9-18	±12	±1.25A	102-1241-ND	74.78	72.92	71.05	67.31	VCD30-D12-D12
Chassis Kit for VCD30 Series			102-1295-ND	11.50	11.22	10.93	10.35	UF224S18

Single Output Half Brick — VHB75 Series

Features:
• 37.5W-75W Isolated Output • Efficiency to 85% • 300KHz Switching Frequency • 2:1 Input Range • Regulated Outputs • Continuous Short Circuit Protection • Industry Standard Half-Brick Package • Five-Sided Metal Case

Pin Assignment
Single Output
1. +Vin 2. ON/OFF 3. CASE 4. -Vin 5. -Vout 6. -Sense 7. Trim 8. +Sense 9. +Vout

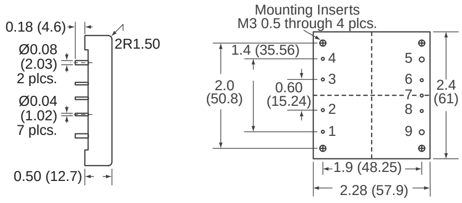

Input Voltage (VDC)	Output Voltage (VDC)	Output Current (Maximum)	Digi-Key Part No.	Price Each				V-Infinity Part No.
				1	10	25	50	
Single Output								
9-18	2.5	15A	102-1254-ND	99.90	97.41	94.91	89.91	VHB75-D12-S2R5
	3.3	15A	102-1255-ND	99.90	97.41	94.91	89.91	VHB75-D12-S3R3
	5	15A	102-1256-ND	99.90	97.41	94.91	89.91	VHB75-D12-S5
	12	6.25A	102-1257-ND	99.90	97.41	94.91	89.91	VHB75-D12-S12
	24	3.13A	102-1258-ND	99.90	97.41	94.91	89.91	VHB75-D12-S24
18-36	2.5	15A	102-1259-ND	99.90	97.41	94.91	89.91	VHB75-D24-S2R5
	3.3	15A	102-1260-ND	99.90	97.41	94.91	89.91	VHB75-D24-S3R3
	5	15A	102-1261-ND	99.90	97.41	94.91	89.91	VHB75-D24-S5
	12	6.25A	102-1262-ND	99.90	97.41	94.91	89.91	VHB75-D24-S12
	24	3.13A	102-1263-ND	99.90	97.41	94.91	89.91	VHB75-D24-S24

AC-DC Converters — FSK15 Series

Features:
• Encapsulated, Compact Case • Industry Standard Pin Out • Universal Input • HI-POT Tested • Inrush Current Limiting • Over-Load Protection • Over-Temperature Protection • Built-in EMI Filter • Fixed Switching Frequency • High Efficiency • 2 Year Warranty

Output Power (Maximum)	Output Voltage (VDC)	Output Current (Maximum)	Digi-Key Part No.	Price Each				V-Infinity Part No.
				1	10	25	50	
Single Output								
15.0W	5	3.0A	102-1164-ND	43.06	41.99	40.91	38.76	FSK-S15-5U
15.6W	12	1.3A	102-1165-ND	43.06	41.99	40.91	38.76	FSK-S15-12U
15.0W	15	1.0A	102-1166-ND	43.06	41.99	40.91	38.76	FSK-S15-15U
15.6W	24	0.65A	102-1167-ND	43.06	41.99	40.91	38.76	FSK-S15-24U

	Input Voltage	
	Min.	Max.
AC	85	264
DC	110	340

Pin Assignment	
Single Output	
1. FG	5. +Vout
2. AC(N)	6. No Pin
3. AC(L)	7. -Vout
4. No Pin	8. No Pin

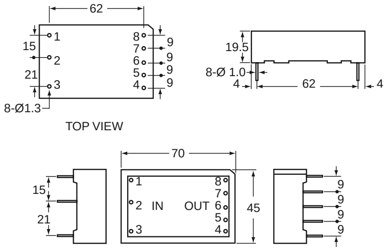

Wide Range Input Series - Switching Regulated Tabletops

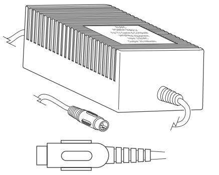

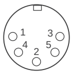

FCC IEC

Note: Outside ring on all units is an EMI earth ground (Not to be used as a safety ground).

Features: • IEC input connector • One year warranty.
General Specifications: • Storage Temperature: -55°C ~ 85°C • Operating Temperature: 0°C ~ 40°C
Output Specifications: • Line Regulation: ±0.2% maximum • Load Regulation: ±5% from 60% load nominal except output #2 • Cross Regulation: ±2%. Cross regulation specifies the maximum voltage change on auxiliary outputs when the +5V output load current is varied from 75% of full rated to either 50% or 100% of full rated • Set Point: ±2% at 60% load on main input • Ripple and Noise: ±1% maximum • Overload Protection: All outputs protected against overloads and short circuit. Automatic recovery upon removal of overload conditions • Overvoltage Protection: Provided on main output only and set at 115-135% • Output Overshoot: No overshoot on turn-on or turn-off • Transient Response: For all outputs, recovery to within 1% of nominal output occurs within 2 milliseconds for a 50% to 100% load step. Maximum excursion is 6% from initial voltage setpoint • Hold-Up Time: 25msec minimum at full rated load and nominal AC input voltage • Minimum Load: Third quarter down to zero load.
Approved by all major regulatory agencies

OUTPUT PIN CONFIGURATION-5 PIN DIN

MODEL	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
Single Output Model					
WRI3012	COM	COM	12V	COM	12V
WRI4212	COM	COM	12V	COM	12V
WRI4214	COM	COM	24V	COM	24V
WRI5215	COM	COM	30V	COM	30V
Dual Output Model					
WRI3021	COM	COM	5V	COM	12V
Triple Output Model					
WRI2731	COM	COM	5V	-12V	12V
WRI3031	COM	COM	5V	-12V	12V
WRI4231	COM	COM	5V	-12V	12V
WRI4232	COM	COM	5V	-12V	12V

Regulated Wallmounts

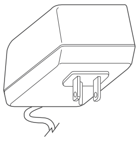

Features: • UL 1310 and UL 1950 listed, CSA Approved • One year warranty
Specifications: • Output Ripple: 20 millivolts (p-p) • Operating Temperature: 0°C ~ 40°C • Combined Regulation: ±5% • Fusing: Internal and non-replaceable
Options: • Shielded output cable - S Option: Shielded cable with EMI ground tied to outer ring of DIN connector (Not to be used as safety ground)
Connector Type: DIN
UL and CSA Approved

DIN PINOUT MATRIX

MODEL	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
WM063	COM	N/C	5V	-12V	12V
WM075	COM	N/C	5V	COM	5V
WM113	COM	N/C	5V	-12V	12V
WM144	COM	N/C	12V	COM	12V

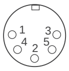

Regulated Tabletops

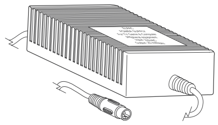

DIN PINOUT MATRIX

MODEL	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
WM100★	-5V	N/C	5V	COM	COM
WM113TT	COM	N/C	5V	-12V	12V
WM220-1	COM	N/C	5V	-12V	12V

Features: • UL 1310 listed, CSA Approved • One year warranty
Specifications: • Output Ripple: 20 millivolts (p-p) • Operating Temperature: 0°C ~ 40°C • Combined Regulation: ±5% • Fusing: Internal and non-replaceable
Options: • ***Shielded output cable - S Option***: Shielded cable with EMI ground tied to outer ring of DIN connector (Not to be used as safety ground) • Connector Type: Din.
UL and CSA Approved ***★ CSA Approved Only***

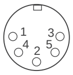

Switching MIADA Series
(Notebook Style)

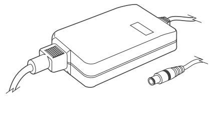

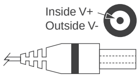

(Switchcraft 760 Plug)

Input Specifications:
• A/C Input: 95-250VAC, 47/63Hz via IEC input connector • Input Protection: Input line fuse provided • Inrush Current: Internally limited by thermistor. Cold start, peak current at 250VAC, 25 amps maximum
Output Specifications:
• Line Regulation: ±.2% over 90-132 or 180-250 • Load Regulation: ±5% for ±40% load variation (60% nominal) • Minimum load: 0 watts • Ripple and Noise: ±1% PK-PK maximum • Overload Protection: Automatic Recovery • Overvoltage Protection: 115-140%
General Specifications:
• Storage Temperature: -55°C ~ 85°C • Operating Temperature: 0°C ~ 40°C • EMI: FCC B/VDE B • Input Connector: IEC 320 Series
UL, CSA and TUV Approved

AC Input	DC Outputs			Max. Watts	Dimensions - Inch (mm)	Digi-Key Part No.	Price Each			Elpac Part No.
	Single	Double	Triple		L x W x H		1	5	10	
Wide Range Input Series-Regulated Tabletops										
90-250VAC, 47-440Hz	12V, 2.5A	—	—	30†	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS107-ND	110.00	99.00	91.30	WRI3012-D5
	12V, 3.5A	—	—	42†	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS112-ND	107.00	96.30	88.81	WRI4212-D5
	24V, 1.75A	—	—	42†	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS113-ND	114.00	102.60	94.62	WRI4214-D5
	30V, 1.75A	—	—	52†	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS117-ND	180.00	162.00	149.40	WRI5215-D5
	5V, 2.0A	12V, 1.5/2.5A*	—	30	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS109-ND	118.00	106.20	97.94	WRI3021-D5
	5V, 3.0A	12V, 0.5A	-12V, 0.5A	27††	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS106-ND	128.00	115.20	106.24	WRI2731-D5
	5V, 2.0A	12V, 1.5/2.5A*	-12V, 0.5A	30	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS111-ND	124.00	111.60	102.92	WRI3031-D5
	5V, 3.0A	12V, 2.5/4.0A*	-12V, 0.5A	42	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS115-ND	124.00	111.60	102.92	WRI4231-D5
	5V, 4.8A	12V, 1.5/2.5A*	-12V, 0.5A	42	6.3 x 3.82 x 2.66 (160.02 x 97.03 x 67.56)	EPS116-ND	124.00	111.60	102.92	WRI4232-D5
Regulated Wallmounts										
115VAC, 60Hz	5V, 600mA	+12V, 180mA	-12V, 160mA	6.8	1.80 x 2.60 x 4.50 (45.72 x 66.04 x 114.30)	EPS142-ND	41.00	36.90	34.03	WM063-1950-D5
	5V, 1.5A	—	—	7.5	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS143-ND	40.00	36.00	33.20	WM075-1950-D5
	5V, 860mA	-12V, 300mA	12V, 300mA	11.3	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS126-ND	48.00	43.20	39.84	WM113-D5
	5V, 860mA	-12V, 300mA	12V, 300mA	11.3	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS127-ND	51.00	45.90	42.33	WM113-S
	12V, 1.2A	—	—	14.4	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS145-ND	44.00	39.60	36.52	WM144-1950-S
Regulated Tabletops										
115VAC, 60Hz	5V, 1.0A	-5V, 1.0A	—	10	2.66 x 3.82 x 6.30 (67.56 x 97.03 x 160.02)	EPS130-ND	66.00	59.40	54.78	WM100-S
	5V, 860mA	+12V, 300mA	12V, 300mA	11.3	2.28 x 3.10 x 4.36 (57.91 x 78.74 x 110.74)	EPS131-ND	56.00	50.40	46.48	WM113TT
	5V, 2.0A	-12V, 500mA	12V, 500mA	22	2.28 x 3.10 x 5.025 (57.91 x 78.74 x 127.64)	EPS134-ND	120.00	108.00	99.60	WM220-1
MIADA Series										
95-250VAC, 47/63Hz	12V, 2.17A	—	—	26	3.0 x 5.0 x 1.31 (76.20 x 127.00 x 33.27)	EPS101-ND	90.00	81.00	74.70	MI2612-760
	15V, 1.9A	—	—	28	3.0 x 5.0 x 1.31 (76.20 x 127.00 x 33.27)	EPS102-ND	90.00	81.00	74.70	MI2815-760
	24V, 1.17A	—	—	28	3.0 x 5.0 x 1.31 (76.20 x 127.00 x 33.27)	EPS104-ND	90.00	81.00	74.70	MI2824-760

† Minimum load on models=8 Watts †† Minimum load on models=2 Watts * Maximum Peak

Unregulated Brute Force Linear Power Supplies

Features:
• Isolated outputs for positive or negative operation • Full rated output from 0°C ~ 40°C • Selectable input terminations • Standard Input: 105/115/125VAC, 47-440 Hz • Warranty: 5 years

Vdc	Amps	Max. Watts	No Load (V)	Full Load (V)	Dimensions - Inch (mm)	Weight (lbs)	Digi-Key Part No.	Price Each			Elpac Part No.
					L x W x H			1	5	10	
24	2.4	60	34.5	26.5	6.3 x 3 x 3.7 (160.02 x 76.2 x 93.98)	5	EPS300-ND	220.00	198.00	182.60	BFS60-24
12	15	200	15.4	12.5	8.1 x 3.9 x 5 (205.74 x 99.06 x 127)	12	EPS304-ND	220.00	198.00	182.60	BFS200-12
24	7.5	200	32.2	27.3	8.1 x 3.9 x 5 (205.74 x 99.06 x 127)	12	EPS305-ND	220.00	198.00	182.60	BFS200-24
24	20	500	29.2	24.6	9 x 4.6 x 5.6 (228.6 x 116.84 x 142.24)	20	EPS306-ND	272.00	244.80	225.76	BFS500-24
48	10	500	56.6	48.4	9 x 4.6 x 5.6 (228.6 x 116.84 x 142.24)	20	EPS307-ND	302.00	271.80	250.66	BFS500-48

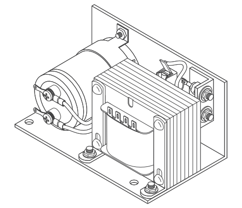

Domestic

WP12 Series: • **A/C Input:** 90-132VAC • **Input Protection:** Internal input line fuse • **Overload Protection:** Output protected against overload and short circuit • **Minimum Load:** 0 Watts • **Operating Temperature Range:** 0°C ~ 40°C • **Output Cable:** 6 foot with 760 type barrel plug; ID = 2.5mm, OD = 5.5mm, Barrel Length 10.00mm - Inside Positive • **Two-Year Warranty** • **Agency Approvals:** NRTL (UL) and CSA • **EMI:** FCC Class B

DC Outputs Single	Max. Power	Dimensions - Inch (mm)	Digi-Key Part No.	Price Each			Elpac Part No.
		L x W x H		1	5	10	
Wall Mount - Domestic Power Supply							
5V @ 2.4A	12W	3.00 x 2.00 x 1.00 (76.20 x 50.80 x 25.40)	EPS162-ND	32.50	29.25	26.98	WP1205-760
12V @ 1A	12W		EPS163-ND	32.50	29.25	26.98	WP1212-760
24V @ 0.5A	12W		EPS164-ND	82.80	74.52	68.73	WP1224-760

WP12 Series

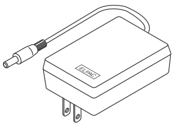

ELPAC POWER SYSTEMS AC Adapters — Medical Grade

MSM SERIES

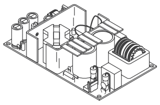

Features:
• Wide range AC input • Fully regulated output • Medical grade approval • 5 Year Warranty • Meets FCC class B, CISPR 11 class B • EMC per EN60601-1-2

Output Specifications:
• Line Regulations: ±0.5% (typical) • Load Regulations: ±2% (typical) • Short Circuit Protection: Pulsing mode, auto recovery • Ripple/noise (VP-P): 1% (20MHz bandwidth)

Safety Approvals:
- UR/ cUR • UL2601-1
- CE Marked

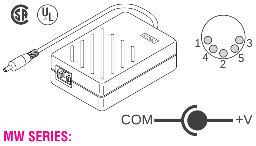

MW SERIES:

Features:
• 3-pin IEC 320 inlet • Wide range AC input • Fully regulated output • 5 Year Warranty • White in color • Meets FCC class B, CISPR 11 class B • **Input Connector (P1):** IEC 60320 inlet plug • **Output Connector (P2):** Barrel type (5.5 mm x 2.5mm x 9.5mm), Switchcraft P/N760 *(MW65: DIN-5 pin circular connector, MWP90: DIN-8 pin circular connector)* • Requires cord Q132 or Q133 • Level B EMI filter

Output Specifications:
• Line Regulation: ±1% (typical) • Load Regulation: ±5% (typical) • Short circuit protected: Pulsing mode, auto recovery • Ripple and Noise (VP-P): ±1% (20MHZ Bandwidth)

Safety Approvals:
- UR/cUR • UL2601-1
- CE marked • CSA 601 • IEC 601-1

AC Input	DC Outputs Single	Max. Watts	Mating Connectors			Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each			Elpac Part No.
			Housing Input	Housing Output	Contacts			1	5	10	
Internal; MSM20, MSM28, MSM40, MSM60 and MSM65 Series Single Output											
100-240VAC, 50-60Hz	5.1V @ 1.4A	7	WM18874	WM18873	WM17406	2.28 x 2.00 x 0.713 (57.90 x 50.80 x 18.10)	EPS342-ND ***NEW!***	30.20	27.18	25.07	MSM0705
	12V @ 0.6A	7					EPS343-ND ***NEW!***	30.20	27.18	25.07	MSM0712
	15V @ 0.5A	7					EPS344-ND ***NEW!***	30.20	27.18	25.07	MSM0715
	24V @ 0.3A	7					EPS345-ND ***NEW!***	30.20	27.18	25.07	MSM0724
	28V @ 0.3A	7					EPS346-ND ***NEW!***	30.20	27.18	25.07	MSM0728
100-240VAC, 50-60Hz	12V @ 1.67A	20	8.0" Leads	8.0" Leads	—	3.54 x 2.16 x 0.71 (90.00 x 55.00 x 18.00)	EPS308-ND	43.95	39.57	36.49	MSM2012
	15V @ 1.34A	20					EPS309-ND	43.95	39.57	36.49	MSM2015
	24V @ 0.84A	20					EPS310-ND	43.95	39.57	36.49	MSM2024
100-240VAC, 50-60Hz	12V @ 2.3A	28	A19953	A19952	A19993CT	4.00 x 2.60 x 1.00 (101.60 x 66.15 x 25.40)	EPS311-ND	48.60	43.76	40.36	MSM2812
	15V @ 1.9A	28					EPS312-ND	48.60	43.76	40.36	MSM2815
	24V @ 1.2A	28					EPS313-ND	48.60	43.76	40.36	MSM2824
90-264VAC, 47-63Hz	12V @ 3.3A	40	A19951	A19954	A19993CT	5.00 x 3.00 x 1.06 (127.00 x 76.20 x 26.90)	EPS314-ND	64.90	62.48	59.27	MSM4012
	15V @ 2.6A	40					EPS315-ND	64.90	62.48	59.27	MSM4015
	18V @ 2.2A	40					EPS316-ND	64.90	62.48	59.27	MSM4018
	24V @ 1.67A	40					EPS317-ND	64.90	62.48	59.27	MSM4024
100-240VAC, 50-60Hz	12V @ 5.0A	60	WM2101	WM2102	WM2300CT	5.00 x 3.00 x 1.30 (127.00 x 76.20 x 33.00)	EPS318-ND	61.19	58.76	56.92	MSM6012
	24V @ 2.5A	60					EPS319-ND	61.19	58.76	56.92	MSM6024
100-240VAC, 50-60Hz	12V @ 5.4A	65	A19951	A19954	A19993CT	5.00 x 3.00 x 1.10 (127.00 x 76.20 x 28.00)	EPS320-ND	71.91	71.19	65.66	MSM6512
	15V @ 4.3A	65					EPS321-ND	71.91	71.19	65.66	MSM6515
	24V @ 2.7A	65					EPS322-ND	71.91	71.19	65.66	MSM6524
90-264VAC, 47-63Hz	12V @ 6.3A	75	A19953	A19957	A32533	5.75 x 3.40 x 1.66 (146.05 x 86.36 x 42.24)	EPS347-ND ***NEW!***	65.92	59.33	54.72	MSM7512
	15V @ 5.0A	75					EPS354-ND ***NEW!***	65.92	59.33	54.72	MSM7515
	24V @ 3.1A	75					EPS348-ND ***NEW!***	65.92	59.33	54.72	MSM7524
	28V @ 2.7A	75					EPS349-ND ***NEW!***	65.92	59.33	54.72	MSM7528
NEW! MSM40 Series Multiple Output NEW!											
85-264VAC, 47-63Hz	5.1V@4A, 12V@2A, -12V@0.4A	40	A19951	A19954	A31398CT	5.00 x 3.00 x 1.38 (127.00 x 76.20 x 35.05)	EPS339-ND	71.40	64.26	59.27	MSM40A
	5.1V@4A, 15V@2A, -15V@0.4A	40					EPS340-ND	71.40	64.26	59.27	MSM40B
	5.1V@4A, 24V@1A, -12V@0.4A	40					EPS341-ND	71.40	64.26	59.27	MSM40D
External; MW12, MW24, MW40, MW65 and MWP90 Series (requires power cord Q132 or Q133)											
100-240VAC, 50-60Hz	12V @ 1.0A	12	—	—	—	3.35 x 1.97 x 1.30 (85.00 x 50.00 x 33.00)	EPS323-ND	35.78	32.21	29.70	MW1212-760-NC-WH
	24V @ 0.5A	12					EPS324-ND	35.78	32.21	29.70	MW1224-760-NC-WH
100-240VAC, 47-63Hz	12V @ 2.0A	24	—	—	—	4.25 x 2.50 x 1.30 (108.00 x 64.50 x 33.00)	EPS325-ND	43.50	39.15	36.11	MW2412-760-NC-WH
	15V @ 1.6A	24					EPS326-ND	43.50	39.15	36.11	MW2415-760-NC-WH
	18V @ 1.33A	24					EPS327-ND	43.50	39.15	36.11	MW2418-760-NC-WH
	24V @ 1.0A	24					EPS328-ND	43.50	39.15	36.11	MW2424-760-NC-WH
100-240VAC, 50/60Hz	12V @ 3.3A	40	—	—	—	5.00 x 3.00 x 1.30 (127.00 x 76.20 x 33.02)	EPS180-ND	51.08	45.98	42.40	MW4012-760-NC-WH
	15V @ 2.6A	40					EPS181-ND	51.08	45.98	42.40	MW4015-760-NC-WH
	18V @ 2.2A	40					EPS182-ND	51.08	45.98	42.40	MW4018-760-NC-WH
	24V @ 1.67A	40					EPS183-ND	51.08	45.98	42.40	MW4024-760-NC-WH
100-240VAC, 50-60Hz	12V @ 5.4A	65	—	—	—	5.07 x 3.06 x 1.35 (128.80 x 77.72 x 34.30)	EPS329-ND	79.33	71.39	65.84	MW6512-D5-NC-WH
	15V @ 4.3A	65					EPS330-ND	79.33	71.39	65.84	MW6515-D5-NC-WH
	24V @ 2.7A	65					EPS331-ND	79.33	71.39	65.84	MW6524-D5-NC-WH
90-264VAC, 47-63Hz	12V @ 7.5A	90	—	—	—	5.90 x 3.33 x 1.50 (149.86 x 84.58 x 38.10)	EPS350-ND ***NEW!***	163.90	147.51	136.04	MWP9012-D8-NC-BK
	15V @ 6.0A	90					EPS351-ND ***NEW!***	166.84	150.16	138.48	MWP9015-D8-NC-BK
	18V @ 5.0A	90					EPS352-ND ***NEW!***	169.78	152.81	140.92	MWP9018-D8-NC-BK
	24V @ 3.75A	90					EPS353-ND ***NEW!***	163.90	147.51	136.04	MWP9024-D8-NC-BK

International

Features: • 95-250VAC; 47-63Hz Input • IEC 320 Input connector for worldwide use • Input protected VIA internal line fuse • Ripple & Noise: ±1% PK-PK maximum • Overload Protection: All outputs protected-auto recovery • Operating Temperature Range: 0°C ~ 40°C • Output Cable - 6 foot - 760 standard (ID=2.5mm /OD=5.5mm/Barrel length 10mm/inside positive) or 5-pin DIN as shown • Two-year warranty **Agency Approvals:** • UL1012 Listed • CSA Certified to 22.2 No. 223 • TUV Licensed, IEC 950 • CE Certified • FCC/VDE Class B Emissions

Fig. 1

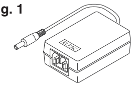

Fig. 2

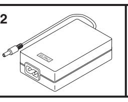

Fig. 3

DIN PINOUT MATRIX

POLARITY	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
W4221	COM	COM	+5V	COM	+12V
W4231	COM	COM	+5V	-12V	+12V
W4232	COM	COM	+5V	-12V	+12V

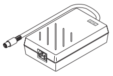

Fig. 4

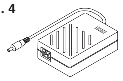

Fig. 5

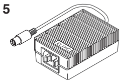

5-pin DIN **760 Plug**

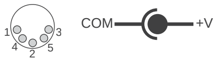

Fig.	DC Outputs Single	Double	Triple	Max. Power	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	5	10	Elpac Part No.
Desk Mount - International Power Supply										
1	5V @ 2.5A	—	—	13W	3.30 x 2.00 x 1.30 (83.82 x 50.80 x 33.02)	EPS165-ND	42.80	38.52	35.53	W1505-760
	12V @ 1.25A	—	—	15W		EPS166-ND	42.80	38.52	35.53	W1512-760
2	12V @ 4.0A	—	—	48W	4.10 x 2.20 x 1.20 (104.14 x 55.88 x 30.48)	EPS168-ND	82.80	74.52	68.73	W4012-760
	24V @ 2.1A	—	—	50W		EPS169-ND*	82.80	74.52	68.73	W4024-760
3	5V @ 4.8A	12V @ 1.5A	—	42W	5.80 x 3.30 x 1.50 (147.32 x 83.82 x 38.10)	EPS170-ND	138.00	124.20	114.54	W4221-D5
	5V @ 3.0A	12V @ 2.5A	-12V @ 0.5A	42W		EPS171-ND	138.00	124.20	114.54	W4231-D5
	5V @ 4.8A	12V @ 1.5A	-12V @ 0.5A	42W		EPS172-ND	138.00	124.20	114.54	W4232-D5
4	12V @ 1.7A	—	—	20W	4.30 x 2.30 x 1.30 (109.22 x 58.42 x 33.02)	EPS174-ND	47.28	42.56	39.25	M42012-760
5	12V @ 6.0A	—	—	72W	6.50 x 3.86 x 2.60 (165.10 x 98.04 x 66.04)	EPS175-ND	100.00	90.00	83.00	W7212-D5
	24V @ 3.0A	—	—	72W		EPS176-ND	100.00	90.00	83.00	W7224-D5

***** Minimum load of 2 watts required to fully regulated

FW Series

Features:
- Wide range AC input.
- Fully enclosed plastic case.
- Fully regulated output.
- High efficiency.
- Five year Warranty.
- Operating Temperature: 0° ~ 40°C
- Storage Temperature: -55° ~ 85°C

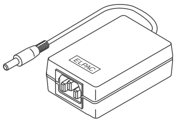

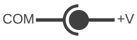

760 Plug

EMI:
Meets FCC class B, CISPR 22 class B.

Safety:
• UL1950 CSA22.2 No. 950 • CE Marked

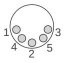

5-pin DIN

Series: FW18, 30, and 50 center conductor positive.

DIN PINOUT MATRIX

POLARITY	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5
FW60, FW72, FW100	COM	COM	+V	COM	+V

DC Outputs Single	Max. Power	Dimensions - Inch (mm) L x W x H	Digi-Key Part No.	Price Each 1	5	10	Elpac Part No.
FW18 Series							
5V @ 3A	15W	3.35 x 1.97 x 1.30 (85.0 x 50.0 x 33 .0)	EPS262-ND	33.08	29.78	27.46	FW1805-760
5V @ 3A	15W		EPS332-ND* ***NEW!***	34.74	31.27	28.84	FW1805-760F
12V @ 1.5A	18W		EPS333-ND* ***NEW!***	27.42	24.68	22.76	FW1812-760F
24V @ 0.75A	18W		EPS334-ND* ***NEW!***	28.24	25.42	23.44	FW1824-760F
FW30 Series							
12V @ 2.5A	30W	4.25 x 2.50 x 1.30 (108.0 x 64.5 x 33.0)	EPS265-ND	46.80	42.12	38.85	FW3012-760
12V @ 2.5A	30W		EPS355-ND* ***NEW!***	49.60	44.64	41.17	FW3012-760F
15V @ 2.0A	30W		EPS356-ND* ***NEW!***	49.60	44.64	41.17	FW3015-760F
24V @ 1.25A	30W		EPS267-ND	46.80	42.12	38.85	FW3024-760
24V @ 1.25A	30W		EPS357-ND* ***NEW!***	49.60	44.64	41.17	FW3024-760F
NEW! FW50 Series NEW!							
12V @ 4.15A	50W	5.00 x 3.00 x 1.30 (127.0 x 76.2 x 33.0)	EPS358-ND*	57.24	51.52	47.51	FW5012-760F
24V @ 2.10A	50W		EPS359-ND*	57.24	51.52	47.51	FW5024-760F
NEW! FW60 Series - 5 Pin DIN NEW!							
12V @ 5.0A	60W	6.50 x 3.85 x 2.60 (165.0 x 98.0 x 66.0)	EPS335-ND*	73.74	66.37	61.21	FW6012-D5F
24V @ 2.5A	60W		EPS336-ND*	73.74	66.37	61.21	FW6024-D5F
FW72 Series - 5 Pin DIN							
12V @ 6.0A	72W	6.50 x 3.85 x 2.60	EPS270-ND	70.82	63.74	58.79	FW7212-D5
12V @ 6.0A	72W		EPS337-ND* ***NEW!***	74.36	66.93	61.72	FW7212-D5F
24V @ 3.0A	72W		EPS338-ND* ***NEW!***	74.36	66.93	61.72	FW7224-D5F
FW100 Series - 5 Pin DIN							
24V @ 4.0A	96W	6.50 x 3.85 x 2.60 (165.0 x 98.0 x 66.0)	EPS273-ND	72.78	65.51	60.41	FW10024-D5

**** RoHS Compliant***

TT electronics
OPTEK Technology

Optoisolators

OPI1264 Series: Optically coupled isolators, each consisting of an infrared emitting diode coupled to an NPN silicon phototransistor and sealed in a precast opaque housing.

OPI155 Series: Contains a high speed monolithic photo-IC comprised of a photodiode and DC amplifier driving an open collector output Schottky transistor.

Fig. 1

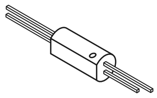

Fig. 2

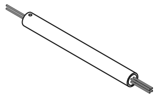

Fig.	Isolation Voltage	Forward DC Current (mA)	Reverse DC Voltage	DC Current Transfer Ratio	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
1	±10k	40	2.0	25%	365-1031-ND	2.83	2.06	1.91	OPI1264A
	±10k	40	2.0	50%	365-1032-ND	2.89	2.10	1.95	OPI1264B
	±10k	40	2.0	100%	365-1033-ND	2.94	2.14	1.98	OPI1264C
2	±50k	50	3.0	25mA	365-1034-ND	69.52	50.56	46.77	OPI155

LITEON

Optoisolators

Fig. 1

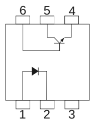

Fig. 2

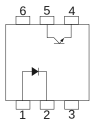

Fig. 3

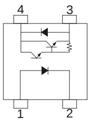

Fig. 4

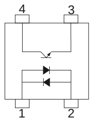

Fig. 5

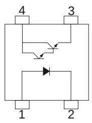

Fig. 6

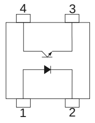

Fig. 7

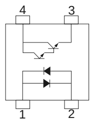

Fig. 8

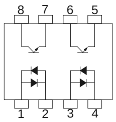

Fig. 9

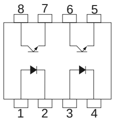

Fig. 10

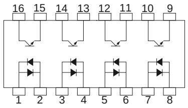

Fig. 11

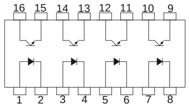

Fig. 12

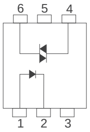

Fig. 13

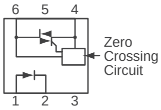

Fig.	Isolation Volt.	Current Transfer Ratio Min.	Max.	VCEO (Max.)	Typ. ton/toff (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100	Lite-On Part No.
1	2500	20%	–	30	3.0/3.0	DIP	160-1300-5-ND	.32	.25	.19	4N25
	2500	20%	–	30	3.0/3.0	SMT	160-1301-5-ND	.34	.26	.20	4N25S
	1500	20%	–	30	3.0/3.0	DIP	160-1302-5-ND	.32	.25	.19	4N26
	1500	20%	–	30	3.0/3.0	SMT	160-1303-5-ND	.34	.26	.20	4N26S
	3550	100%	–	30	3.0/3.0	DIP	160-1304-5-ND	.32	.25	.19	4N35
	3550	100%	–	30	3.0/3.0	SMT	160-1305-5-ND	.32	.25	.19	4N35S
	1500	100%	–	30	3.0/3.0	DIP	160-1306-5-ND	.32	.25	.19	4N37
	1500	100%	–	30	3.0/3.0	SMT	160-1307-5-ND	.34	.26	.20	4N37S
	5000	40%	80%	70	5.0/5.0	DIP	160-1308-5-ND	.32	.25	.19	CNY17-1
	5000	40%	80%	70	5.0/5.0	SMT	160-1309-5-ND	.34	.26	.20	CNY17-1S
	5000	63%	125%	70	5.0/5.0	DIP	160-1310-5-ND	.44	.33	.25	CNY17-2
	5000	63%	125%	70	5.0/5.0	SMT	160-1311-5-ND	.50	.38	.29	CNY17-2S
	5000	100%	200%	70	5.0/5.0	DIP	160-1312-5-ND	.32	.25	.19	CNY17-3
	5000	100%	200%	70	5.0/5.0	SMT	160-1313-5-ND	.34	.26	.20	CNY17-3S
	5000	160%	320%	70	5.0/5.0	DIP	160-1314-5-ND	.32	.25	.19	CNY17-4
	5000	160%	320%	70	5.0/5.0	SMT	160-1315-5-ND	.34	.26	.20	CNY17-4S
2	5000	40%	80%	70	5.0/5.0	DIP	160-1316-5-ND	.32	.25	.19	CNY17F-1
	5000	40%	80%	70	5.0/5.0	SMT	160-1317-5-ND	.34	.26	.20	CNY17F-1S
	5000	63%	125%	70	5.0/5.0	DIP	160-1318-5-ND	.32	.25	.19	CNY17F-2
	5000	63%	125%	70	5.0/5.0	SMT	160-1319-5-ND	.34	.26	.20	CNY17F-2S
	5000	100%	200%	70	5.0/5.0	DIP	160-1320-5-ND	.33	.25	.19	CNY17F-3
	5000	100%	200%	70	5.0/5.0	SMT	160-1321-5-ND	.34	.26	.20	CNY17F-3S
	5000	160%	320%	70	5.0/5.0	DIP	160-1322-5-ND	.32	.25	.19	CNY17F-4
	5000	160%	320%	70	5.0/5.0	SMT	160-1323-5-ND	.34	.26	.20	CNY17F-4S
1	5000	50%	–	30	2.8/4.5	DIP	160-1324-5-ND	.32	.25	.19	H11A1
	5000	50%	–	30	2.8/4.5	SMT	160-1325-5-ND	.34	.26	.20	H11A1S
	5000	20%	–	30	2.8/4.5	DIP	160-1326-5-ND	.32	.25	.19	H11A2
	5000	20%	–	30	2.8/4.5	SMT	160-1327-5-ND	.34	.26	.20	H11A2S
	5000	20%	–	300	5.0/5.0	DIP	160-1328-5-ND	.76	.57	.43	H11D1
	5000	20%	–	300	5.0/5.0	SMT	160-1329-5-ND	.78	.59	.44	H11D1S
3	3750	1000%	–	300	100/20	SMT	160-1331-1-ND	.51	.43	.35	LTV-352T
	3750	1000%	–	300	100/20	SMT	160-1331-2-ND*	192.38/750			LTV-352T
4	3750	20%	400%	35	4.0/3.0	SMT	160-1333-1-ND	.30	.25	.20	LTV-354T
	3750	20%	400%	35	4.0/3.0	SMT	160-1333-2-ND*	112.50/750			LTV-354T
5	3750	600%	7500%	35	60/53	SMT	160-1335-1-ND	.23	.19	.15	LTV-355T
	3750	600%	7500%	35	60/53	SMT	160-1335-2-ND*	96.75/750			LTV-335T
6	3750	50%	600%	80	4.0/3.0	SMT	160-1337-1-ND	.23	.19	.15	LTV-356T
	3750	50%	600%	80	4.0/3.0	SMT	160-1337-2-ND*	84.38/750			LTV-356T
	3750	50%	600%	35	4.0/3.0	SMT	160-1339-1-ND	.23	.19	.15	LTV-357T
	3750	50%	600%	35	4.0/3.0	SMT	160-1339-2-ND*	84.38/750			LTV-357T
2	5000	40%	320%	70	2.0/2.0	DIP	160-1340-5-ND	.32	.25	.19	LTV-702F
	5000	40%	320%	70	2.0/2.0	SMT	160-1341-5-ND	.34	.26	.20	LTV-702FS
1	5000	40%	320%	70	2.0/2.0	DIP	160-1342-5-ND	.32	.25	.19	LTV-702V
4	5000	20%	300%	35	4.0/3.0	DIP	160-1344-5-ND	.35	.27	.20	LTV-814

Fig.	Isolation Volt.	Current Transfer Ratio Min.	Max.	VCEO (Max.)	Typ. ton/toff (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100	Lite-On Part No.
4	5000	20%	300%	35	4.0/3.0	SMT	160-1345-5-ND	.36	.28	.21	LTV-814S
8	5000	20%	300%	35	4.0/3.0	DIP	160-1346-5-ND	.70	.53	.40	LTV-824
	5000	20%	300%	35	4.0/3.0	SMT	160-1347-5-ND	.72	.54	.41	LTV-824S
10	5000	20%	300%	35	4.0/3.0	DIP	160-1348-5-ND	1.40	1.05	.79	LTV-844
	5000	20%	300%	35	4.0/3.0	SMT	160-1349-5-ND	1.42	1.07	.80	LTV-844S
4	5000	20%	80%	35	4.0/3.0	DIP	160-1350-5-ND	.40	.30	.23	LTV-814H
	5000	20%	80%	35	4.0/3.0	SMT	160-1351-5-ND	.42	.32	.24	LTV-814HS
8	5000	20%	80%	35	4.0/3.0	DIP	160-1352-5-ND	.80	.60	.45	LTV-824H
7	5000	600%	7500%	35	60/53	DIP	160-1356-5-ND	.63	.48	.36	LTV-8141
	5000	600%	7500%	35	60/53	SMT	160-1357-5-ND	.64	.49	.37	LTV-8141S
5	5000	600%	7500%	35	60/53	DIP	160-1358-5-ND	.32	.24	.18	LTV-815
	5000	600%	7500%	35	60/53	SMT	160-1359-5-ND	.33	.25	.19	LTV-815S
6	5000	50%	600%	80	4.0/3.0	DIP	160-1360-5-ND	.25	.19	.15	LTV-816
	5000	50%	600%	80	4.0/3.0	SMT	160-1361-5-ND	.26	.20	.15	LTV-816S
9	5000	50%	600%	80	4.0/3.0	DIP	160-1362-5-ND	.50	.38	.29	LTV-826
	5000	50%	600%	80	4.0/3.0	SMT	160-1363-5-ND	.52	.39	.30	LTV-826S
11	5000	50%	600%	80	4.0/3.0	DIP	160-1364-5-ND	1.00	.75	.57	LTV-846
	5000	50%	600%	80	4.0/3.0	SMT	160-1365-5-ND	1.02	.77	.58	LTV-846S
6	5000	50%	600%	35	4.0/3.0	DIP	160-1366-5-ND	.25	.19	.15	LTV-817
	5000	50%	600%	35	4.0/3.0	SMT	160-1367-5-ND	.26	.20	.15	LTV-817S
9	5000	50%	600%	35	4.0/3.0	DIP	160-1368-5-ND	.50	.38	.29	LTV-827
	5000	50%	600%	35	4.0/3.0	SMT	160-1369-5-ND	.64	.48	.36	LTV-827S
11	5000	50%	600%	35	4.0/3.0	DIP	160-1370-5-ND	1.00	.75	.57	LTV-847
	5000	50%	600%	35	4.0/3.0	SMT	160-1371-5-ND	1.02	.77	.58	LTV-847S

*Tape and Reel Part No.

Triac Output Optoisolators

Fig.	Max. IF Isolation Voltage	Min. Trigger (mA)	Max. Blocking Voltage	IR (µA)	Package Type	Digi-Key Part No.	Price Each 1	10	100	Lite-On Part No.
12	5000	30	400V	10	DIP	160-1372-5-ND	.63	.48	.36	MOC3020
	5000	30	400V	10	SMT	160-1373-5-ND	.64	.49	.37	MOC3020S
	5000	15	400V	10	DIP	160-1374-5-ND	.63	.48	.36	MOC3021
	5000	15	400V	10	SMT	160-1375-5-ND	.64	.49	.37	MOC3021S
	5000	10	400V	10	DIP	160-1376-5-ND	.63	.48	.36	MOC3022
	5000	10	400V	10	SMT	160-1377-5-ND	.64	.49	.37	MOC3022S
	5000	5	400V	10	DIP	160-1378-5-ND	.63	.48	.36	MOC3023
	5000	5	400V	10	SMT	160-1379-5-ND	.64	.49	.37	MOC3023S
13	5000	5	600V	10	DIP	160-1722-5-ND	.58	.49	.39	MOC3063
	5000	5	600V	10	SMT	160-1723-1-ND	.60	.51	.41	MOC3063S-TA1
	5000	5	600V	10	SMT	160-1723-2-ND*	301.50/1,000			MOC3063S-TA1

*Tape and Reel Part No.

LUMEX
An ITW Company

Optolinks

Specifications: • Isolation Voltage: 5000 • VCEO (Max.): 60V • Typical tr/tf: 5 µs/4 µs

Fig. 1

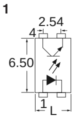

Photo Transistor Output DIP or SMT

Fig. 2

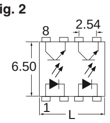

Dual Photo Transistor Output DIP or SMT

Fig. 3

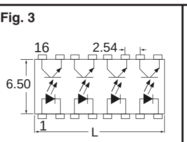

Quad Photo Transistor Output DIP or SMT

Fig. 4

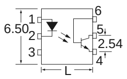

Photo Transistor Output DIP or SMT

Fig. 5

Photo Transistor Output DIP or SMT

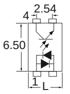

Fig. 6

Quad Photo Transistor Output DIP or SMT

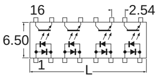

Fig. 7

Photo IC Output DIP or SMT

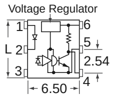

Optoisolators with Photo-Transistor Output

Fig.	Current Transfer Ratio Min-Max.	Length L (mm)	Package	Digi-Key Part No.	Price Each 1	10	Tape and Reel Pricing‡	Lumex Part No.
1	60-600%	4.60	DIP	67-1560-5-ND	.51	.43	—	OCP-PCT114/E
	60-600%	4.60	SMT	67-1613-1-ND	.51	.43	564.40/2,000	OCP-PCT114/E-TR
2	60-600%	9.68	DIP	67-1561-5-ND	1.05	.88	—	OCP-PCT218/E
	60-600%	9.68	SMT	67-1614-1-ND	1.05	.88	581.00/1,000	OCP-PCT218/E-TR
3	60-600%	19.84	DIP	67-1562-5-ND	1.83	1.53	—	OCP-PCT4116/E
	60-600%	19.84	SMT	67-1618-5-ND	1.83	1.53	—	OCP-PCT4116/E-TR
4	60-600%	7.30	DIP	67-1563-5-ND	.39	.33	—	OCP-PCTB116/E
	60-600%	7.30	SMT	67-1615-1-ND	.39	.33	215.80/1,000	OCP-PCTB116/E-TR
5	60-600%	4.60	DIP	67-1564-5-ND	.63	.53	—	OCP-PCT124/A
	60-600%	4.60	SMT	67-1616-1-ND	.63	.53	697.20/2,000	OCP-PCT124/A-TR
6	60-600%	19.84	DIP	67-1565-5-ND	2.89	2.41	—	OCP-PCT4216/A
	60-600%	19.84	SMT	67-1619-5-ND	2.89	2.41	—	OCP-PCT4216/A-TR

Optoisolators with Photo-IC Output

Fig.	Isolation Voltage	Prop Delay tPHL/tPLH (µS)	Length L (mm)	Pkg.	Digi-Key Part No.	Price Each 1	10	Tape and Reel Pricing 1,000‡	Lumex Part No.
7	5000	5/3	7.3	DIP	67-1566-5-ND	1.64	1.37	—	OCP-PCP116
	5000	5/3	7.3	SMT	67-1617-1-ND	1.64	1.37	904.70	OCP-PCP116-TR

‡ For Tape and Reel part number, change 1-ND to 2-ND.

N

Fig.	Isolation Voltage	Current Transfer Ratio - Typ.	VCEO (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg.	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	5000	80-600%	80	3/5	Dip	PS2501-1A-ND†	.42	.35	.30	—	—	—
2	5000	80-600%	80	3/5	Dip	PS2501-2A-ND†	1.13	.94	.80	—	—	—
3	5000	80-600%	80	3/5	Dip	PS2501-4-ND	1.46	1.22	1.03	—	—	—
3	5000	80-600%	80	3/5	Dip	PS2501-4A-ND†	1.47	1.23	1.04	—	—	—
1	5000	50-400%	70	5/7	Dip	PS2501A-1-A-ND†	.36	.30	.26	—	—	—
1	5000	50-400%	70	5/7	SMT	PS2501AL-1-ND§†	.42	.35	.30	PS2501AL-1TR-ND†	1,000	210.00
1	5000	80-600%	80	3/5	SMT	PS2501L-1A-ND†	.51	.43	.36	—	—	—
2	5000	80-600%	80	3/5	SMT	PS2501L-2A-ND†	1.23	1.03	.87	—	—	—
3	5000	80-600%	80	3/5	SMT	PS2501L-4A-ND†	1.92	1.60	1.36	—	—	—
4	5000	200-2000%	40	100/100	Dip	PS2502-1-ND	.72	.60	.51	—	—	—
4	5000	200-2000%	40	100/100	Dip	PS2502-1A-ND†	.74	.62	.52	—	—	—
5	5000	200-2000%	40	100/100	Dip	PS2502-2A-ND†	1.77	1.48	1.25	—	—	—
6	5000	200-2000%	40	100/100	Dip	PS2502-4A-ND†	2.15	1.94	1.65	—	—	—
7	5000	100-400%	40	20/30	Dip	PS2503-1-A-ND†	.93	.78	.66	—	—	—
8	5000	100-400%	40	20/30	Dip	PS2503-2-A-ND†	1.87	1.56	1.32	—	—	—
9	5000	100-400%	40	20/30	Dip	PS2503-4-A-ND†	2.85	2.57	2.19	—	—	—
7	5000	100-400%	40	20/30	SMT	PS2503L-1A-ND§†	.99	.83	.70	PS2503L-1ATR-ND†	2,000	495.00/M
8	5000	100-400%	40	20/30	SMT	PS2503L-2-A-ND†	1.93	1.61	1.36	—	—	—
9	5000	100-400%	40	20/30	SMT	PS2503L-4-A-ND†	2.90	2.61	2.23	—	—	—
10	5000	80-600%	80	3/5	Dip	PS2505-1A-ND†	.60	.50	.43	—	—	—
11	5000	80-600%	80	3/5	Dip	PS2505-2A-ND†	1.40	1.17	.99	—	—	—
12	5000	80-600%	80	3/5	Dip	PS2505-4-ND	2.35	1.96	1.66	—	—	—
12	5000	80-600%	80	3/5	Dip	PS2505-4A-ND†	2.70	2.25	1.90	—	—	—
10	5000	80-600%	80	3/5	SMT	PS2505L-1A-ND†	.60	.50	.43	—	—	—
11	5000	80-600%	80	3/5	SMT	PS2505L-2A-ND†	1.58	1.32	1.12	—	—	—
12	5000	80-600%	80	3/5	SMT	PS2505L-4-ND	2.00	1.80	1.54	—	—	—
12	5000	80-600%	80	3/5	SMT	PS2505L-4A-ND†	2.13	1.92	1.63	—	—	—
13	5000	200-2000%	40	100/100	Dip	PS2506-1A-ND†	.99	.83	.70	—	—	—
14	5000	200-2000%	40	100/100	Dip	PS2506-2A-ND†	1.97	1.65	1.39	—	—	—
15	5000	200-2000%	40	100/100	Dip	PS2506-4A-ND†	2.60	2.34	2.00	—	—	—
1	5000	50-200%	120	5/25	Dip	PS2513-1-A-ND†	.71	.59	.50	—	—	—
1	5000	50-200%	120	5/25	SMT	PS2513L-1-ND§†	.76	.64	.54	PS2513L-1TR-ND†	2,000	373.50/M
1	5000	20-80%	80	3/5	Dip	PS2521-1-A-ND†	1.09	.91	.77	—	—	—
1	5000	20-80%	80	3/5	SMT	PS2521L-1CT-ND†	1.17	.98	.83	PS2521L-1TR-ND†	1,000	600.00
2	5000	20-80%	80	3/5	SMT	PS2521L-2-ND†	2.30	1.92	1.62	—	—	—
10	5000	20-80%	80	3/5	Dip	PS2525-1-A-ND†	1.31	1.10	.93	—	—	—
16	5000	1500-6500%	300	100/100	Dip	PS2532-1A-ND†	.98	.82	.70	—	—	—
18	5000	1500-6500%	300	100/100	Dip	PS2532-4A-ND†	2.75	2.48	2.11	—	—	—
16	5000	1500-6500%	300	100/100	SMT	PS2532L-1A-ND†	1.04	.87	.73	—	—	—
18	5000	1500-6500%	300	100/100	SMT	PS2532L-4A-ND†	3.55	3.20	2.73	—	—	—
1	5000	80-400%	80	3/5	Dip	PS2561-1A-ND†	.57	.48	.41	—	—	—
1	5000	80-400%	80	3/5	Dip	PS2561-1-VA-ND‡†	.57	.48	.41	—	—	—
3	5000	80-400%	80	3/5	Dip	PS2561-4-V-ND‡	2.65	2.39	2.04	—	—	—
1	5000	50-300%	70	5/7	Dip	PS2561A-1-A-ND†	.45	.38	.32	—	—	—
1	5000	50-300%	70	5/7	SMT	PS2561AL-1CT-ND§†	.48	.41	.34	PS2561AL-1TR-ND†	2,000	232.50/M
1	5000	80-400%	80	3/5	SMT	PS2561L-1A-ND†	.63	.53	.45	—	—	—
1	5000	80-400%	80	3/5	SMT	PS2561L-1-V-ND‡	.54	.46	.39	—	—	—
1	5000	80-400%	80	3/5	SMT	PS2561L-1-VA-ND‡†	.63	.53	.45	—	—	—
2	5000	80-400%	80	3/5	SMT	PS2561L-2A-ND†	1.23	1.03	.87	—	—	—
1	5000	80-400%	80	3/5	Dip	PS2561L1-1-VA-ND*‡†	.63	.53	.45	—	—	—
1	5000	80-400%	80	3/5	SMT	PS2561L2-1-V-ND*‡	.55	.46	.39	—	—	—
4	5000	200-2000%	40	100/100	Dip	PS2562-1-A-ND†	1.02	.85	.72	—	—	—
4	5000	200-2000%	40	100/100	SMT	PS2562L-1-ND§†	.89	.74	.63	PS2562L-1TR-ND†	2,000	442.50/M
10	5000	80-400%	80	3/5	Dip	PS2565-1A-ND†	.69	.58	.49	—	—	—
10	5000	80-400%	80	3/5	Dip	PS2565-1-V-ND‡	.63	.53	.45	—	—	—
10	5000	80-400%	80	3/5	Dip	PS2565-1-VA-ND‡†	.69	.58	.49	—	—	—
10	5000	80-400%	80	3/5	SMT	PS2565L-1A-ND†	.72	.60	.51	—	—	—
10	5000	80-400%	80	3/5	SMT	PS2565L-1-VA-ND‡†	.72	.60	.51	—	—	—
13	5000	200-2000%	40	100/100	Dip	PS2566-1-A-ND†	1.02	.85	.72	—	—	—
13	5000	200-2000%	40	100/100	SMT	PS2566L-1-ND§†	1.07	.89	.75	PS2566L-1TR-ND†	2,000	499.50/M
1	3750	50-300%	40	3/5	SOP	PS2701-1A-ND†	.56	.47	.40	PS2701-1ATR-ND†	3,500	204.00/M
1	3750	50-300%	70	5/7	SOP	PS2701A-1-ND§†	.48	.40	.34	PS2701A-1TR-ND†	3,500	240.00/M
4	3750	200-2000+%	40	200/200	SOP	PS2702-1A-ND†	.98	.82	.69	PS2702-1ATR-ND†	3,500	450.00/M
1	3750	50-400%	120	10/10	SOP	PS2703-1A-ND†	.66	.55	.47	PS2703-1ATR-ND†	3,500	282.00/M
2	3750	50-400%	120	10/10	SOP	PS2703-2-ND	1.44	1.20	1.02	—	—	—
10	3750	50-300%	40	3/5	SOP	PS2705-1-ND	.69	.58	.49	PS2705-1TR-ND	3,500	383.00/M
10	3750	50-300%	40	3/5	SOP	PS2705-1A-ND†	.69	.58	.49	PS2705-1ATR-ND†	3,500	345.00/M
10	3750	50-300%	70	5/7	SOP	PS2705A-1-ND§†	.51	.43	.36	PS2705A-1TR-ND†	3,500	255.00/M
13	3750	200-2000%	40	200/200	SOP	PS2706-1-ND§†	1.05	.88	.74	PS2706-1TR-ND†	3,500	457.50/M
16	2500	1500-4000%	300	100/100	SOP	PS2732-1-ND§†	1.31	1.10	.93	PS2732-1TR-ND†	3,500	540.00/M
16	2500	1500-4000%	350	100/100	SOP	PS2733-1A-ND§†	1.57	1.31	1.11	PS2733-1ATR-ND†	3,500	813.00/M
1	3750	50-400+%	40	4/5	SOP	PS2761-1ACT-ND†	.74	.62	.52	PS2761-1ATR-ND†	3,500	367.50/M
10	3750	50-400%	40	4/5	SOP	PS2765-1A-ND§†	.89	.75	.63	PS2765-1ATR-ND†	3,500	403.50/M
1	2500	80-600%	80	3/5	SSOP	PS2801-1ACT-ND§†	1.50	1.25	1.06	PS2801-1ATR-ND†	3,500	375.00/M

§ Cut Tape pricing * 10.16mm (0.4”) wide row spacing; standard spacing is 7.62mm (0.3”) ‡ VDE Approved † ***RoHS Compliant*** *(Continued)*

Fig. 1

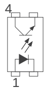

Photo Transistor
Output
Dip or SMT

Fig. 2

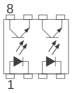

Dual Photo
Transistor Output
Dip or SMT

Fig. 3

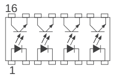

Quad Photo Transistor Output
Dip or SMT

Fig. 4

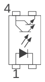

Photo Darlington
Output
Dip or SMT

Fig. 5

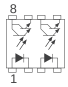

Dual Photo Darlington Output
Dip or SMT

Fig. 6

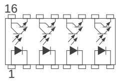

Quad Photo Darlington Output
Dip or SMT

Fig. 7

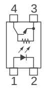

Photo Transistor Output
Dip or SMT

Fig. 8

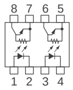

Photo Transistor Output
Dip or SMT

Fig. 9

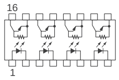

Photo Transistor Output
Dip or SMT

Fig. 10

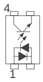

Photo Transistor Output
Dip or SMT

Fig. 11

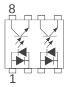

Dual Photo Transistor Output
Dip or SMT

Fig. 12

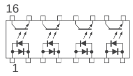

Quad Photo Transistor Output
Dip or SMT

Fig. 13

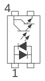

Photo Darlington
Output Dip

Fig. 14

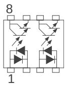

Dual Photo Darlington
Output Dip

Fig. 15

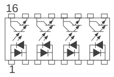

Quad Photo Darlington
Output Dip

Fig. 16

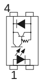

Photo Darlington
Output
Dip or SMT

Fig. 17

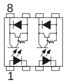

Dual Photo
Darlington Output
Dip or SMT

Fig.	Isolation Voltage	Current Transfer Ratio - Typ.	VCEO (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg.	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel	
							1	10	100		Size	Pricing
3	2500	80-600%	80	3/5	SSOP	PS2801-4A-ND†	3.10	2.79	2.38	PS2801-4ATR-ND†	2,500	1495.00/M
1	2500	50-400%	70	5/7	SSOP	PS2801A-1-ND§†	.63	.53	.45	PS2801A-1TR-ND†	3,500	315.00/M
4	2500	200-2000+%	40	200/200	SSOP	PS2802-1ACT-ND§†	1.65	1.38	1.17	PS2802-1ATR-ND†	3,500	544.50/M
6	2500	200-2000%	40	200/200	SSOP	PS2802-4A-ND†	3.93	3.54	3.01	PS2802-4ATR-ND†	2,500	1443.00/M
10	2500	80-600%	80	3/5	SSOP	PS2805-1ACT-ND§†	.91	.76	.64	PS2805-1ATR-ND†	3,500	454.50/M
12	2500	80-600%	80	3/5	SSOP	PS2805-4A-ND†	4.98	4.48	3.82	—	—	—
10	2500	50-400%	70	5/7	SSOP	PS2805A-1-ND§†	.75	.63	.53	PS2805A-1TR-ND†	3,500	375.00/M
12	2500	50-400%	70	5/7	SSOP	PS2805A-4-A-ND†	3.38	3.04	2.59	—	—	—
13	2500	200-2000%	40	200/200	SOP	PS2806-1ACT-ND†	1.50	1.25	1.06	PS2806-1ATR-ND†	3,500	679.50/M
15	2500	200-2000%	40	200/200	SSOP	PS2806-4-ND	4.50	4.05	3.45	—	—	—
15	2500	200-2000%	40	200/200	SSOP	PS2806-4A-ND†	5.68	5.11	4.36	PS2806-4ATR-ND†	2,500	2951.00/M
1	2500	100-400%	40	4/5	SSOP	PS2811-1CT-ND§	.58	.49	.41	—	—	—
1	2500	100-400%	40	4/5	SSOP	PS2811-1ACT-ND§†	.71	.60	.51	PS2811-1ATR-ND†	3,500	357.00/M
3	2500	100-400%	40	4/5	SSOP	PS2811-4A-ND†	3.05	2.75	2.34	PS2811-4ATR-ND†	2,500	1612.00/M
12	2500	100-400%	40	4/5	SSOP	PS2815-4A-ND†	3.28	2.95	2.52	PS2815-4ATR-ND†	2,500	1729.00/M
16	2500	400-2000%	300	100/100	SSOP	PS2832-1CT-ND§	1.47	1.23	1.04	PS2832-1TR-ND	3,500	735.00/M
18	3750	400-2000%	300	100/100	SSOP	PS2832-4-ND	4.90	4.41	3.76	PS2832-4TR-ND	2,500	2587.00/M
18	3750	400-2000%	300	100/100	SSOP	PS2832-4A-ND†	5.03	4.53	3.86	—	—	—
16	2500	400-4500%	350	20/5	SSOP	PS2833-1A-ND§†	2.01	1.68	1.42	PS2833-1ATR-ND†	3,500	972.00/M
18	2500	400-4500%	350	20/5	SSOP	PS2833-4-ND§†	4.25	3.83	3.26	PS2833-4TR-ND†	2,500	2223.00/M
19	2000	100-600%	70	20/110	SSOP	PS2841-4A-ND§†	4.08	3.67	3.13	PS2841-4ATR-ND†	2,500	1963.00/M
20	2000	100-600%	70	20/110	SSOP	PS2841-4B-ND§†	3.75	3.38	2.88	PS2841-4BTR-ND†	2,500	1911.00/M
21	2000	100-600%	70	20/110	SSOP	PS2845-4AA-ND§†	4.78	4.30	3.67	PS2845-4AATR-ND†	2,500	2457.00/M
7	2500	50-400%	40	4/5	SSOP	PS2865-1A-ND§†	.89	.75	.63	PS2865-1ATR-ND†	3,500	445.50/M
1	2500	100-400%	40	4/5	Mini-Flat	PS2911-1ACT-ND§†	.96	.80	.68	PS2911-1ATR-ND†	3,500	480.00/M
1	2500	50-100%	120	5/50	Mini-Flat	PS2913-1-ND§†	1.39	1.16	.98	PS2913-1TR-ND†	3,500	661.50/M
10	2500	100-400%	40	4/5	Mini-Flat	PS2915-1CT-ND§	1.19	.99	.84	PS2915-1TR-ND	3,500	675.00/M
10	2500	100-400%	40	4/5	Mini-Flat	PS2915-1ACT-ND§†	1.52	1.27	1.08	PS2915-1ATR-ND†	3,500	760.50/M
16	2500	400-4500%	300	20/5	Mini-Flat	PS2932-1A-ND§†	1.99	1.66	1.41	PS2932-1ATR-ND†	3,500	1023.00/M
16	2500	400-4500%	350	20/5	Mini-Flat	PS2933-1-ND§†	2.08	1.74	1.47	PS2933-1TR-ND†	3,500	1006.50/M

§ Cut Tape pricing * 10.16mm (0.4") wide row spacing; standard spacing is 7.62mm (0.3") ‡ VDE Approved † ***RoHS Compliant***

Coupler For IGBT Driver

Fig.	Isolation Voltage	Prop Delay	Package	Digi-Key Part No.	Price Each 1	10	100
22	5000	3µs	Dip	PS9634-ND	1.86	1.55	1.31
22	5000	3µs	Dip	PS9634-A-ND†	1.86	1.55	1.31
22	5000	3µs	SMT	PS9634L-ND	1.86	1.55	1.31

† ***RoHS Compliant***

High Linearity Diode Output Optoisolator (Surface Mount)

Fig.	Isolation Voltage	Transfer Gain (K2/K1)	Transfer Gain Linearity Δ (K2/K1) (for Vcc=15V, If=2-10mA)	Digi-Key Part No.	Price Each 1	10	100
23	1500	.733-1.072	<1%	PS8741-A-ND†	4.10	3.69	3.15

† ***RoHS Compliant***

High Speed Analog Output Optoisolators

Fig.	Isolation Voltage	CTR	Vcc (Max.)	Typical Propagation Delay (µc)	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel	
							1	10	100		Size	Pricing
24	2500	15%-35%	35	0.5 / 0.6	SOP	PS8101-ND†	2.31	1.93	1.63	PS8101TR-ND†	2,500	1170.00/M
24	2500	20%~35%	35	0.5 / 0.6	SOP	PS8101-K-A-ND†	2.31	1.93	1.63	—	—	—
24	2500	10%~30%	15	1 / 2	SOP	PS8103-ND†	1.95	1.63	1.38	PS8103TR-ND†	2,500	960.00/M
25	5000	>15%	35	0.5 / 0.3	Dip	PS8601-A-ND†	2.02	1.69	1.43	—	—	—
25	5000	>15%	35	0.5 / 0.3	SMT	PS8601L-A-ND†	2.07	1.73	1.46	—	—	—
26	5000	>15%	35	0.5 / 0.3	Dip	PS8602-A-ND†	2.47	2.06	1.74	—	—	—
26	2500	15%~35%	35	0.3 / 0.6	SSOP	PS8802-1CT-ND§†	1.97	1.78	1.51	PS8802-1TR-ND†	1,500	1023.10/M
27	2500	15%~35%	35	0.3 / 0.6	SSOP	PS8802-2CT-ND§†	3.73	3.36	2.86	PS8802-2TR-ND†	1,500	1937.00/M

§ Cut Tape pricing † ***RoHS Compliant***

High Speed Digital Photocouplers

Fig.	Output Type	Isolation Voltage	Prop Delay t_{PHL}	t_{PLH}	Package	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape & Reel	
							1	10	100		Size	Pricing
28	OC	2500	250ns	520ns	SOP	PS9113-ND†	3.58	3.22	2.75	PS9113TR-ND†	2,500	1833.00/M
28	OC	2500	54ns	51ns	SOP	PS9114-ND†	3.60	3.24	2.76	PS9114TR-ND†	2,500	1755.00/M
29	TP	2500	33ns	40ns	SOP	PS9115-ND†	3.60	3.24	2.76	PS9115TR-ND†	2,500	1846.00/M
28	OC	2500	40ns	45ns	SMT	PS9121-ND†	2.93	2.64	2.25	PS9121TR-ND†	2,500	1482.00/M
30	OC	5000	250ns	520ns	Dip	PS9613-ND	2.12	1.91	1.63	—	—	—
30	OC	5000	250ns	520ns	Dip	PS9613-A-ND†	2.33	2.10	1.79	—	—	—
31	OC	3750	75ns	75ns	Dip	PS9614-A-ND†	2.41	2.17	1.85	—	—	—
31	OC	3750	61ns	51ns	SMT	PS9614L-ND†	2.45	2.21	1.88	PS9614LTR-ND†	1,000	1183.00
32	CMOS	3750	20ns	23ns	Dip	PS9661-A-ND†	7.88	7.09	6.04	—	—	—
32	OC	2500	54ns	51ns	SSOP	PS9814-1CT-ND§†	1.97	1.78	1.51	PS9814-1TR-ND†	1,500	1023.10/M
30	OC	2500	54ns	51ns	SSOP	PS9814-2CT-ND§†	3.04	2.74	2.33	PS9814-2TR-ND†	1,500	1677.00/M
31	OC	2500	40ns	45ns	SSOP	PS9817-1-ND†	2.40	2.17	1.85	PS9817-1TR-ND†	1,500	1023.10/M
33	OC	2500	40ns	45ns	SSOP	PS9817-2-ND†	3.15	2.84	2.42	PS9817-2TR-ND†	1,500	1638.00/M
32	OC	2500	45ns	50ns	SSOP	PS9821-1-ND†	2.10	1.89	1.61	PS9821-1TR-ND†	1,500	1090.70/M
33	OC	2500	45ns	50ns	SSOP	PS9821-2-ND†	3.45	3.11	2.65	PS9821-2TR-ND†	1,500	2275.00/M

§ Cut Tape pricing † ***RoHS Compliant***

Fig. 18

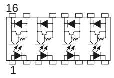

Quad Photo Darlington Output
Dip or SMT

Fig. 19

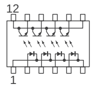

Photo Transistor Output
SMT

Fig. 20

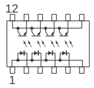

Photo Transistor Output
SMT

Fig. 21

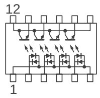

Photo Transistor
Output
SMT

Fig. 22

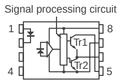

DIP and
Lead-Bent

Fig. 23

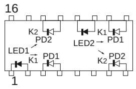

Fig. 24

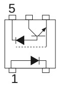

SMT

Fig. 25

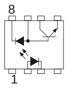

Dip or
Lead-Bent

Fig. 26

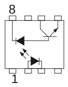

Dip or
Lead-Bent

Fig. 27

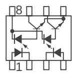

SOP

Fig. 28

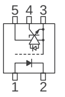

Open
Collector
Output

Fig. 29

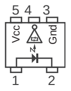

SMT

Fig. 30

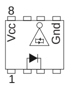

Dip

Fig. 31

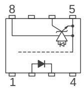

Open
Collector
Output

Fig. 32

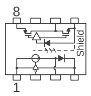

CMOS
Output

Fig. 33

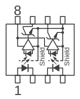

Open
Collector
Output

TOSHIBA Transistor Output Optoisolators

Fig.	Pkg.	Current Transfer Ratio Min. (%)	Max. (%)	@IF (ma)	VCE (V)	Collector Breakdown V(BR)	Isolation Voltage (Vrms)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	Dip	100	1200	1	0.5	55	5000	TLP331-ND	1.08	.90	.72	—	—	—
	Dip	100	1200	1	0.5	55	5000	TLP331F-NDΔ ***NEW!***	1.08	.90	.72	—	—	—
	Dip	50	600	5	5	55	5000	TLP631-ND	.75	.63	.50	—	—	—
	Dip	100	600	5	5	55	5000	TLP631GB-ND	.75	.63	.50	—	—	—
	Dip	20	—	10	10	30	2500	4N25ASHORT-ND	.60	.45	.34	—	—	—
	Dip	20	—	10	10	30	2500	4N25SHORT-ND	.48	.36	.27	—	—	—
	Dip	20	—	10	10	30	2500	4N25SHORTF-NDΔ ***NEW!***	.56	.42	.32	—	—	—
	Dip	100	—	10	10	30	2500	4N35SHORT-ND	.48	.36	.27	—	—	—
	Dip	10	—	10	10	80	2500	4N38SHORT-ND	.64	.49	.37	—	—	—
2	Dip	100	1200	1	0.5	55	5000	TLP332-ND	1.08	.90	.72	—	—	—
	Dip	100	1200	1	0.5	55	5000	TLP332F-NDΔ ***NEW!***	1.08	.90	.72	—	—	—
	Dip	50	600	5	5	55	5000	TLP632-ND	1.07	.89	.71	—	—	—
	Dip(.4)	50	600	5	5	80	4000	TLP732D4-GR-LF2-ND	1.14	.95	.76	—	—	—
3	Dip	100	600	5	0.5	55	5000	TLP630GB-TAIE-ND	.75	.63	.50	—	—	—
4	SMD	100	1200	1	0.5	80	3750	TLP124-ND	.88	.66	.50	—	—	—
	SMD	100	1200	1	0.5	80	3750	TLP124FCT-NDΔ ***NEW!***	.88	.66	.50	TLP124FTR-NDΔ ***NEW!***	3,000	286.00/M
	SMD	200	1200	1	0.5	80	3750	TLP124BV-ND	.92	.69	.52	—	—	—
	SMD	200	1200	1	0.5	80	3750	TLP124BVFCT-ND†Δ ***NEW!***	.92	.69	.52	TLP124BVFTR-NDΔ ***NEW!***	3,000	299.00/M
	SMD	50	600	5	5	80	3750	TLP181-ND	.48	.36	.27	—	—	—
	SMD	100	600	5	5	80	3750	TLP181GBF-ND Δ ***NEW!***	.48	.36	.27	—	—	—
	SMD	100	600	5	5	80	3750	TLP181GB-ND	.48	.36	.27	—	—	—
	SMD	100	600	5	5	80	3750	TLP181GBCT-ND†	.48	.36	.27	—	—	—
	SMD	100	600	5	5	80	3750	TLP181GBFCT-ND†Δ ***NEW!***	.48	.36	.27	TLP181GBFTR-NDΔ ***NEW!***	3,000	156.00/M
	SMD	100	300	5	5	80	3750	TLP181GRFCT-ND†Δ ***NEW!***	.48	.36	.27	TLP181GRFTR-NDΔ ***NEW!***	3,000	156.00/M
5	SMD	50	600	5	5	80	3750	TLP131-ND	.90	.75	.60	—	—	—
	SMD	100	600	5	5	80	3750	TLP131GB-ND	.90	.75	.60	—	—	—
	SMD	100	1200	1	0.5	80	3750	TLP137-ND	.84	.70	.56	—	—	—
6	Dip	50	600	5	—	55	5000	TLP621-ND	.69	.52	.39	—	—	—
	Dip	200	600	5	—	55	5000	TLP621BLT-ND	.56	.42	.32	—	—	—
	Dip	200	600	5	—	55	5000	TLP621BLTF-NDΔ ***NEW!***	.56	.42	.32	—	—	—
	SMD	50	600	5	5	55	5000	TLP621D4-TP1CT-ND*†	.75	.63	.50	—	—	—
	Dip(.4)	50	150	5	5	55	5000	TLP621D4-Y-LF2-ND*	.60	.45	.34	—	—	—
	Dip(.4)	50	150	5	5	55	5000	TLP621D4-Y-LF2T-ND*	.56	.42	.32	—	—	—
	Dip	100	600	5	—	55	5000	TLP621GBT-ND	.52	.39	.30	—	—	—
	Dip	100	600	5	—	55	5000	TLP621GBTF-NDΔ ***NEW!***	.52	.39	.30	—	—	—
	Dip	100	300	5	—	55	5000	TLP621GRT-ND	.52	.39	.30	—	—	—
	Dip	50	600	5	—	55	5000	TLP621-2-ND	1.38	1.16	.93	—	—	—
	Dip	100	600	5	—	55	5000	TLP621-2GB-ND	1.05	.88	.70	—	—	—
	Dip	100	300	5	5	55	5000	TLP621-2GRT-ND	1.05	.88	.70	—	—	—
	SMD	50	600	5	0.5	55	5000	TLP621LF1T-ND	.92	.69	.52	—	—	—
	Dip	50	600	5	—	55	5000	TLP621-4-ND	2.13	1.70	1.28	—	—	—
	Dip	100	600	5	—	55	5000	TLP621-4GB-ND	2.13	1.70	1.28	—	—	—
	SMD	100	1200	1	0.5	55	5000	TLP624LF1-ND	.75	.63	.50	—	—	—
	Dip	100	1200	1	—	55	5000	TLP624-ND	.96	.72	.54	—	—	—
	Dip	100	1200	1	—	55	5000	TLP624F-NDΔ ***NEW!***	.96	.72	.54	—	—	—
	Dip	100	1200	1	—	55	5000	TLP624-2-ND	1.25	1.00	.75	—	—	—
	Dip	100	1200	1	—	55	5000	TLP624-4-ND	2.25	1.80	1.40	—	—	—
	Dip	100	1200	±1	—	55	5000	TLP626-ND	1.05	.88	.70	—	—	—
	Dip	200	1200	1	0.5	55	5000	TLP626BV-ND	.95	.76	.57	—	—	—
7	Dip	50	600	±5	—	55	5000	TLP620-ND	.72	.54	.41	—	—	—
	Dip	50	600	±5	—	55	5000	TLP620F-NDΔ ***NEW!***	.60	.45	.34	—	—	—
	Dip	100	600	±5	—	55	5000	TLP620GB-ND	.84	.63	.48	—	—	—
	Dip	100	300	±5	—	55	5000	TLP620GR-ND	.78	.59	.52	—	—	—
	Dip	50	600	±5	—	55	5000	TLP620-2-ND	1.26	1.05	.84	—	—	—
	Dip	100	600	±5	—	55	5000	TLP620-2GB-ND	1.46	1.22	.98	—	—	—
	Dip	50	600	±5	—	55	5000	TLP620-4-ND	2.32	1.86	1.39	—	—	—
	Dip	100	600	±5	—	55	5000	TLP620-4GB-ND	1.68	1.34	1.01	—	—	—
	Dip	100	1200	±1	—	55	5000	TLP626-2-ND	1.75	1.40	1.05	—	—	—
	Dip	100	1200	±1	—	55	5000	TLP626-4-ND	3.38	2.70	2.10	—	—	—
8	SMD	100	600	5	5	80	2500	TLP280-4GB-ND	2.13	1.70	1.28	TLP280-4GBTR-ND	2,500	1100.80/M
9	SMD	100	600	5	5	80	2500	TLP280GB-ND	.88	.66	.50	TLP280GBTR-ND	2,500	286.00/M
10	SMD	100	600	5	5	80	2500	TLP281-4GB-ND	1.75	1.40	1.05	—	—	—
	SMD	100	600	5	5	80	2500	TLP281-4GBFCT-NDΔ ***NEW!***	1.75	1.40	1.05	TLP281-4GBFTR-NDΔ ***NEW!***	2,500	896.00/M
11	SMD	100	600	5	5	80	2500	TLP281GB-ND	.72	.54	.41	—	—	—
	SMD	100	600	5	5	80	2500	TLP281GBFCT-ND†Δ ***NEW!***	.72	.54	.41	TLP281GBFTR-NDΔ ***NEW!***	2,500	234.00/M
	SMD	50	600	5	5	80	2500	TLP281GR-ND	.72	.54	.41	—	—	—
	SMD	100	400	1	5	100	2500	TLP283-ND	.80	.60	.45	—	—	—
	Dip	100	300	5	5	55	4000	TLP721D4-GRLT-ND*	.64	.48	.36	—	—	—
	Dip	100	300	5	5	80	5000	TLP421GR-ND	.50	.40	.30	—	—	—
	SMD	100	300	5	5	80	5000	TLP421GRTP1CT-ND†	.55	.44	.33	TLP421GRTP1TR-ND	1,500	154.00/M
	Dip	50	600	60	—	80	5000	TLP421-ND	.49	.39	.30	—	—	—
	Dip	200	600	60	—	80	5000	TLP421BL-ND	.49	.40	.30	—	—	—
12	Dip	50	600		5	55	2500	TLP504A-ND	1.26	1.05	.84	—	—	—
	Dip	50	600	5	5	55	2500	TLP504AGB-ND	1.26	1.05	.84	—	—	—
13	SMD	100	400	1	5	100	2500	TLP283-4-ND	1.88	1.50	1.13	—	—	—
	Dip	50	600	5	5	55	2500	TLP504A-2-ND	2.10	1.68	1.26	—	—	—
	Dip	100	600	5	5	55	2500	TLP504A-2GB-ND	2.10	1.68	1.26	—	—	—
14	SMD	50	600	5	5	80	3750	TLP180CT-ND†	.80	.60	.45	—	—	—
	SMD	50	600	5	5	80	3750	TLP180FCT-ND†Δ ***NEW!***	.80	.60	.45	TLP180FTR-NDΔ ***NEW!***	3,000	260.00/M
	SMD	100	600	5	5	80	3750	TLP180GB-ND	.80	.60	.45	TLP180GBTPLTR-ND	3,000	260.00/M
	SMD	100	600	5	5	80	3750	TLP180GBTPLFCT-ND†Δ ***NEW!***	.80	.60	.45	TLP180GBTPLTR-NDΔ ***NEW!***	3,000	260.00/M
	SMD	100	1200	±1	0.5	80	3750	TLP126-ND	.90	.75	.60	—	—	—
15	SMD	100	600	±5	5	80	3750	TLP130GB-ND	1.13	.94	.75	—	—	—

Fig. 1

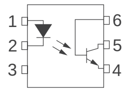

Fig. 2

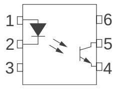

No Base Connection

Fig. 3

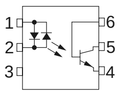

Fig. 4

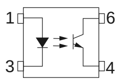

Fig. 5

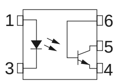

Fig. 6

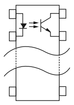

Fig. 7

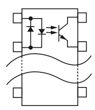

Fig. 8

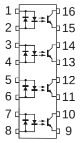

Fig. 9

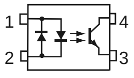

Fig. 10

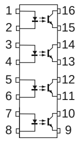

Fig. 11

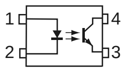

Fig. 12

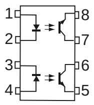

Fig. 13

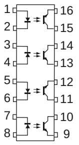

Fig. 14

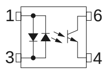

Fig. 15

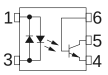

* VDE Approved † Cut Tape Δ ***RoHS Compliant***

Darlington Transistor Output

Fig. 1

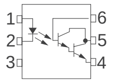

Fig. 2

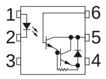

Fig. 3

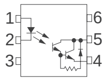

No Base Connection

Fig. 4

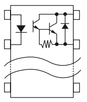

Fig. 5

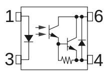

Fig.	Pkg.	Current Transfer Ratio Min. (%)	@IF (ma)	VCE (V)	Saturation Voltage Max. (V)	@IC (ma)	@IF (ma)	Collector Break-down V(BR)	Iso-lation Volt.	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing
1	Dip	100	10	10	1	2	8	30	2500	4N29ASHORT-ND	.72	.54	.41	—	—	—
	Dip	100	10	10	1	2	8	30	2500	4N29SHORT-ND	.64	.48	.36	—	—	—
	Dip	500	10	10	1	2	8	30	2500	4N32SHORT-ND	.72	.54	.41	—	—	—
	Dip	500	10	10	1	2	8	30	2500	4N33SHORT-ND	.72	.54	.41	—	—	—
	Dip	1000	1	1	1.2	100	10	300	5000	TLP371-ND	.81	.68	.54	—	—	—
	Dip	1000	1	1	1.2	100	10	300	5000	TLP371F-NDΔ ***NEW!***	.81	.68	.54	—	—	—
2	SMD	1000	1	1	1.2	100	10	300	5000	TLP371TP1CT-ND†	.87	.73	.58	TLP371TP1TR-ND	1,500	385.70/M
3	Dip	1000	1	1	1.2	100	10	300	5000	TLP372-ND	.90	.75	.60	—	—	—
4	Dip	1000	1	1	1.2	100	10	300	5000	TLP627F-NDΔ ***NEW!***	.80	.60	.45	—	—	—
	Dip	1000	1	1	1.2	100	10	300	5000	TLP627-2-ND	1.30	1.04	.78	—	—	—
	Dip	1000	1	1	1.2	100	10	300	5000	TLP627-2F-NDΔ ***NEW!***	1.44	1.20	.96	—	—	—
	Dip	1000	1	1	1.2	100	10	300	5000	TLP627-4-ND	2.25	1.80	1.35	—	—	—
5	SMD	1000	1	1	1.2	100	10	300	2500	TLP127-ND	.84	.70	.56	—	—	—
	SMD	1000	1	1	1.2	100	10	300	2500	TLP127CT-ND†	.84	.70	.56	TLP127TR-ND	3,000	364.00/M
	SMD	1000	1	1	1.2	100	10	300	2500	TLP127FCT-ND†Δ ***NEW!***	.84	.70	.56	TLP127FTR-ND Δ ***NEW!***	3,000	364.00/M

† Cut Tape Δ ***RoHS Compliant***

TOSHIBA Thyristor Output Optoisolators

Fig.	Pkg.	LED Trigger Current Max. (mA)	dv/dt Typical (V/uS)	Blocking Voltage	Isolation Voltage	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing
1	Dip	10	10	600	4000	TLP741JTAIE-ND‡	1.13	.95	.76	—	—	—
	Dip	10	10	400	4000	TLP741GD4-TAIE-ND*‡	1.13	.95	.76	—	—	—
	Dip	10	10	400	4000	TLP741GN-ND	1.50	1.20	.90	—	—	—
	Dip	10	10	400	4000	TLP741GTAIEN-ND	1.03	.86	.69	—	—	—
2	SMD	10	500	400	2500	TLP160G-ND	1.02	.85	.68	—	—	—
	SMD	10	500	600	2500	TLP160J-ND	1.05	.88	.70	TLP160JTR-ND	3,000	468.00/M
	Dip	10	500	400	5000	TLP3022S-ND	.88	.66	.50	—	—	—
	Dip	5	500	400	5000	TLP3023SF-NDΔ ***NEW!***	.92	.69	.52	—	—	—
	SMD	10	500	400	2500	TLP160GCT-ND†	1.02	.85	.68	TLP160GTR-ND	3,000	442.00/M
	Dip	10	500	600	5000	TLP3052D4N-ND*	1.05	.88	.70	—	—	—
	SOP	10	500	600	3000	TLP260J-ND	.90	.75	.60	TLP260JTPRTR-ND	3,000	390.00/M
	SMD	5	500	400	5000	TLP3023TP1SCT-ND†	.96	.72	.54	TLP3023TP1STR-ND	1,500	319.20/M
	Dip	10	500	600	5000	TLP3052S-ND	.75	.63	.50	—	—	—
	Dip	10	500	600	5000	TLP3052SF-NDΔ ***NEW!***	.75	.63	.50	—	—	—
	SMD	10	500	400	2500	TLP161G-ND	.90	.75	.60	—	—	—
	SMD	10	500	400	2500	TLP161GF-ND Δ ***NEW!***	.90	.75	.60	—	—	—
	SMD	10	500	600	2500	TLP161J-ND	.90	.75	.60	TLP161JTR-ND	3,000	390.00/M
	SMD	10	500	600	2500	TLP161JF-NDΔ ***NEW!***	.90	.75	.60	—	—	—
	SMD	10	500	600	2500	TLP161JFCT-ND†Δ ***NEW!***	.90	.75	.60	TLP161JFTR-NDΔ ***NEW!***	3,000	390.00/M
	Dip	10	500	400	5000	TLP3042SF-ND#Δ ***NEW!***	.92	.69	.52	—	—	—
	Dip	5	500	400	5000	TLP3043S-ND#	.96	.72	.54	—	—	—
	Dip	5	500	400	5000	TLP3043SF-ND#Δ ***NEW!***	.96	.72	.54	—	—	—
	Dip	10	500	600	5000	TLP3062SF-ND# Δ ***NEW!***	.78	.65	.52	—	—	—
3	Dip	5	500	600	5000	TLP3063SF-ND# Δ ***NEW!***	.81	.68	.54	—	—	—
	SMD	3	500	600	2500	TLP168JCT-ND†	1.29	1.08	.86	—	—	—
	SMD	3	500	600	2500	TLP168JFCT-ND†Δ ***NEW!***	1.29	1.08	.86	TLP168JFTR-NDΔ ***NEW!***	3,000	559.00/M
	SMD	5	500	600	5000	TLP3063TP1SCT-ND†	.84	.70	.56	—	—	—
	SMD	5	500	600	5000	TLP3063TP1SFCT-ND†Δ ***NEW!***	.84	.70	.56	TLP3063TP1SFTR-NDΔ ***NEW!***	1,500	372.40/M
	Dip	10	500	600	4000	TLP763JD4-ND*	.96	.80	.64	—	—	—
4	SMD	10	10	400	2500	TLP141G-ND	1.35	1.13	.90	—	—	—
5	Dip	10	500	400	2500	TLP525G-ND	.90	.75	.60	—	—	—
	Dip	10	500	400	2500	TLP525G-2-ND	1.50	1.20	.90	—	—	—
	Dip	10	500	600	5000	TLP360J-ND	.81	.68	.54	—	—	—
	Dip	10	500	600	5000	TLP361J-ND#	.87	.73	.58	—	—	—

Fig. 1

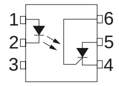

Fig. 2

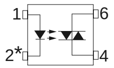

*Pin 3 for TLP160

Fig. 3

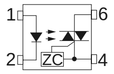

Fig. 4

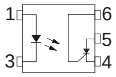

Fig. 5

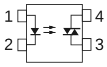

* VDE Approved # Zero Crossing
† Cut Tape ‡ SCR Output
Δ ***RoHS Compliant***

High Speed Output Optoisolators

Fig.	Pkg.	Output Current Min. (ma)	Output Current @IF (ma)	Output Current @VO (V)	Data Rate Typical (bit/s)	Max. Supply Voltage (V)	Isolation Volt. (Vrms)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing
1	Dip	1.12	16	0.4	1M	15	2500	TLP2530-ND	2.70	2.16	1.68	—	—	—
		3.04	16	0.4	1M	15	2500	TLP2531F-NDΔ ***NEW!***	2.70	2.16	1.68	—	—	—
2	Dip	13	5	0.6	10M	5	2500	TLP2630-ND	2.25	1.80	1.40	—	—	—
	Dip	13	5	0.6	10M	5	2500	TLP2631F-NDΔ ***NEW!***	2.25	1.80	1.40	—	—	—
	SMD	13	5	0.6	10M	5	2500	TLP2631TP1CT-ND†	2.36	1.89	1.47	TLP2631TP1TR-ND	1,500	1338.76/M
3	SMD	1.6	16	0.4	1M	15	2500	TLP112-ND	1.61	1.29	.97	TLP112TR-ND	3,000	825.60/M
		1.6	16	0.4	1M	15	2500	TLP112FCT-ND† Δ ***NEW!***	1.61	1.29	.97	TLP112FTR-NDΔ ***NEW!***	3,000	825.60/M
		3.2	16	0.4	1M	15	2500	TLP112A-ND	1.61	1.29	.97	TLP112ATR-ND	3,000	921.60/M
4	SMD	13	10	0.4	10M	5	2500	TLP113CT-ND†	1.75	1.40	1.05	TLP113TR-ND	3,000	896.00/M
		13	10	0.4	10M	5	2500	—	—	—	—	TLP115TR-ND	3,000	1544.76/M
		13	10	0.4	10M	5	2500	TLP115FCT-ND† Δ ***NEW!***	2.76	2.21	1.72	TLP115FTR-NDΔ ***NEW!***	3,000	1544.76/M
		13	5	0.4	10M	5	2500	TLP115A-ND	3.15	2.52	1.96	TLP115ATR-ND	3,000	1815.66/M
5	Dip	1.6	16	0.4	1M	15	2500	TLP550-ND	1.38	1.10	.83	—	—	—
6	Dip	3.2	16	0.4	1M	15	2500	TLP559-ND	1.75	1.40	1.05	—	—	—
7	Dip	1.12	16	0.4	1M	15	2500	6N135TF-NDΔ ***NEW!***	1.20	1.00	.80	—	—	—
		3.04	16	0.4	1M	15	2500	6N136T-ND	.96	.80	.64	—	—	—
		3.04	16	0.4	1M	15	2500	6N136TF-NDΔ ***NEW!***	.96	.80	.64	—	—	—
8	Dip	13	5	0.6	10M	5	2500	6N137T-ND	.96	.80	.64	—	—	—
	Dip	13	5	0.6	10M	5	2500	6N137TF-NDΔ ***NEW!***	.96	.80	.64	—	—	—
	Dip	13	5	0.6	10M	5.5	2500	TLP2601-ND	2.00	1.60	1.20	—	—	—
	Dip	13	5	0.6	10M	5.5	2500	TLP2601F-NDΔ ***NEW!***	2.00	1.60	1.20	—	—	—
	SMD	13	5	0.6	10M	5	2500	TLP2601TP1CT-ND†	2.25	1.80	1.40	TLP2601TP1TR-ND	1,500	1275.00/M
9	Dip	4.8	1.6	0.4	100K	7	2500	6N138T-ND	1.08	.90	.72	—	—	—
		4.8	1.6	0.4	100K	7	2500	6N138TF-NDΔ ***NEW!***	1.08	.90	.72	—	—	—
		2	0.5	0.4	100K	18	2500	6N139T-ND	.96	.80	.64	—	—	—
		2	0.5	0.4	100K	18	2500	6N139TF-NDΔ ***NEW!***	.96	.80	.64	—	—	—
10	Dip	6.4 -2.6	1.6 0	0.4 2.4	5M	20	2500	TLP558-ND	3.60	2.88	2.24	—	—	—
11	Dip	6.4 -2.6	0 1.6	0.5 2.4	5M	20	2500	TLP2200-ND	2.48	1.98	1.54	—	—	—
	SMD	6.4 -2.6	0 1.6	0.5 2.4	5M	20	2500	TLP2200CT-ND†	2.64	2.11	1.65	TLP2200TR-ND	1,500	1494.30/M

Fig. 1

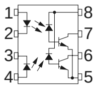

Fig. 2

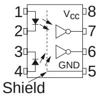

Fig. 3

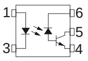

Fig. 4

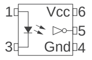

Fig. 5

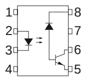

Fig. 6

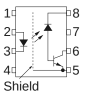

Fig. 7

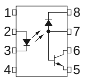

Fig. 8

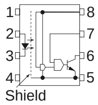

Fig. 9

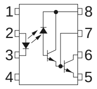

Fig. 10

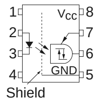

Fig. 11

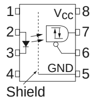

† Cut Tape Δ ***RoHS Compliant***

Photovoltaic Couplers

Fig. 1

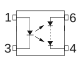

Fig. 2

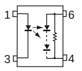

† Cut Tape Δ ***RoHS Compliant***

Fig.	Pkg.	Short Current Min. (uA)	Short Current @IF (ma)	Open Voltage Typ. (V)	Switching Time (@UF=20 mA, CL=1000pF) T on (ms)	Switching Time T off(ms)	Isolation Voltage (VRMS)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing
1	SMD	12	10	8	0.2	2	2500	TLP190B-ND	2.70	2.16	1.68	—	—	—
	SMD	12	10	8	0.2	2	2500	TLP190BF-NDΔ ***NEW!***	2.70	2.16	1.68	—	—	—
	SMD	12	10	8	0.2	2	2500	TLP190BCT-ND†	2.70	2.16	1.68	—	—	—
	SMD	12	10	8	0.2	2	2500	TLP190BUCFCT-ND†Δ ***NEW!***	2.70	2.16	1.68	TLP190BUCFTR-NDΔ ***NEW!***	3,000	1512.00/M
2	SMD	24	20	8	0.2	2	2500	TLP191B-ND	2.93	2.34	1.82	—	—	—
	SMD	24	20	8	0.2	2	2500	TLP191BF-ND Δ***NEW!***	2.93	2.34	1.82	—	—	—
	SMD	24	20	8	0.2	2	2500	TLP191BFCT-ND†Δ ***NEW!***	2.93	2.34	1.82	TLP191BFTR-NDΔ ***NEW!***	3,000	1638.00/M

Industrial Optoisolators

Features: • Power supply voltage: 10V ~ 30V • Isolation Voltage: 3750 Vrms

Δ ***RoHS Compliant***

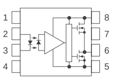

1: NC
2: Anode
3: Cathode
4: NC
5: GND
6: V_O
7: NC
8: V_{CC}

Pkg.	Input Current Min. (uA)	Input Current Max. (ma)	Forward Voltage	Operating Frequency	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Toshiba Part No.
SMD	7.5	10	1.60	50Khz	-40°C ~ 100°C	TLP350TP1F-NDΔ ***NEW!***	2.38	1.90	1.43	TLP350 TP1,F)
Dip	7.5	10	1.55	25Khz	-40°C ~ 100°C	TLP351-ND	1.50	1.20	.90	TLP351
Dip	7.5	10	1.55	25Khz	-40°C ~ 100°C	TLP351F-ND Δ ***NEW!***	1.50	1.20	.90	TLP351F

Power Transistor Outputs

Fig. 1

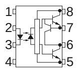

Fig. 2

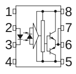

† Cut Tape Δ ***RoHS Compliant***

Fig.	Pkg.	Output Current IO (A)	Output Current @IF (ma)	Propagation Delay Typical (us)	Maximum Supply Voltage (V)	Isolation Voltage (VRMS)	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,500
1	Dip	0.25	5	1	16	2500	TLP557-ND	1.80	1.44	1.08	—	—
2	Dip	±0.5	5	0.2	35	2500	TLP250-ND	1.88	1.50	1.13	—	—
	Dip	±0.5	5	0.2	35	2500	TLP250F-NDΔ ***NEW!***	1.88	1.50	1.13	—	—
	SMD	±1.5	5	0.15 @ 8mA	35	2500	TLP250CT-ND†	2.25	1.80	1.35	TLP250TR-ND	1170.00/M
	SMD	±0.4	5	0.25 @ 8mA	35	2500	TLP251CT-ND†	1.88	1.50	1.13	TLP251TR-ND	975.00/M

FAIRCHILD
SEMICONDUCTOR®

Optoisolators

Fig. 1

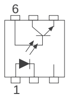

Photo-Transistor Output

Fig. 2

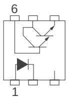

Photo-Darlington Output

Fig. 3

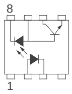

High-Speed Transistor Output

Fig. 4

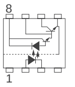

High Gain Split Darlington Output

Fig. 5

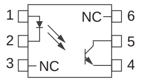

Fig. 6

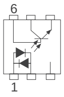

AC Input Photo-Transistor Output

Fig. 7

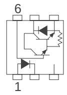

High Voltage Photo-Darlington Output

Fig. 8

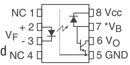

High Speed Transistor Output

* Base not connected for HCLP0453

Fig. 9

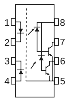

Dual Channel High Speed Transistor Output

Fig. 10

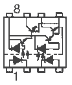

Dual Split Darlington Output

Fig. 11

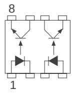

Dual Photo Transistor Output

Fig. 12

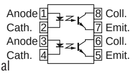

SMT Dual Photo Transistor Output MCT9001QT-ND not SMT

Fig. 13

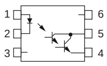

Darlington Output

Fig. 14

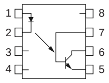

SMT Transistor Output

Fig. 15

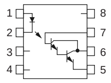

SMT Darlington Output

Fig. 16

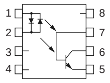

SMT AC Input Transistor Output

Fig. 17 SMT

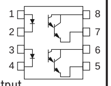

Dual Channel Darlington Output

Fig. 18

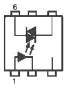

Non-Zero Crossing Triac Output

Fig. 19

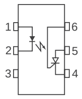

SCR Output

Fig. 20

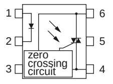

Zero-Cross Triac Output

Fig. 21

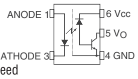

High Speed Transistor

Fig. 22

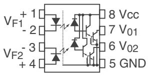

Dual Channel Darlington Output

Fig. 23

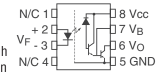

High Gain Darlington Output

Fig. 24

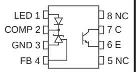

Optically Isolated Error Amplifier

Fig. 25

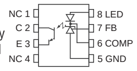

Optically Isolated Error Amplifier

Fig. 26

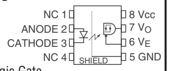

Logic Gate Optocouplers

Fig. 27

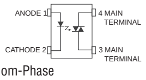

Random-Phase Triac Driver Output

Fig. 28

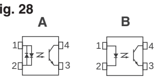

4-Pin Transistor Output

Fig. 29

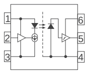

High Speed TTL Buffered Output

Fig. 30

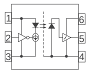

High Speed TTL Inverted Output

Fig. 31

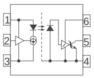

High Speed CMOS Buffered Output

Fig. 32

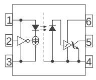

High Speed CMOS Inverted Output

Fig. 33

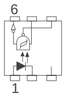

Schmitt Trigger Inverted OC Output

Fig. 34

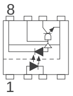

Very High Speed TTL, 5V CMOS Output

Fig. 35

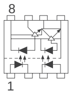

Dual Very High Speed TTL, 5V CMOS Output

Fig. 36

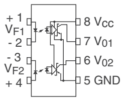

Fig. 37

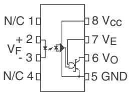

Fig. 38

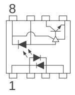

AC Line Monitor TTL Output

Fig. 39

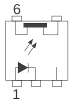

Bilateral Analog FET Output

Photo Transistor Output Optoisolators

Fig.	Iso. Volt.	Current Transfer Ratio - Typ. (%) (Min.		Max.)	V_{CEO} (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
		Min.	Typ.	Max.					1	10	100
1	5300	20	50	—	30	2.0/2.0	DIP	4N25FS-ND	.56	.45	.34
	5300	20	70	—	30	2.0/2.0	SMT	4N25SM-ND	.52	.42	.32
	5300	20	70	—	30	2.0/2.0	DIP	4N25MFS-ND	.52	.42	.32
	5300	20	50	—	30	2.0/2.0	DIP	4N26FS-ND	.56	.45	.34
	5300	20	70	—	30	2.0/2.0	DIP	4N26MFS-ND	.52	.42	.32
	5300	20	50	—	30	2.0/2.0	DIP	4N27-ND	.56	.45	.34
	5300	10	50	—	30	2.0/2.0	DIP	4N27MFS-ND	.52	.42	.32
	5300	20	50	—	30	2.0/2.0	DIP	4N28-ND	.56	.45	.34
2	5300	100	—	—	30	5.0/40	DIP	4N29-ND	.55	.42	.32
	5300	100	—	—	30	5.0/40	DIP	4N30-ND	.55	.42	.32
	5300	500	—	—	30	5.0/100	DIP	4N32-ND	.55	.42	.32
	5300	500	—	—	30	5.0/100	SMT	4N32S-ND	.55	.42	.32
	5300	500	—	—	30	5.0/100	DIP	4N33-ND	.55	.42	.32
1	5300	100	300	—	30	2.0/2.0	DIP	4N35FS-ND	.56	.45	.34
	5300	100	—	—	30	2.0/2.0	SMT	4N35SFS-ND	.56	.45	.34
	5300	100	300	—	30	2.0/2.0	SMT	4N35SM-ND	.52	.42	.32
	5300	100	300	—	30	2.0/2.0	DIP	4N35MFS-ND	.52	.42	.32
	5300	100	—	—	30	2.0/2.0	DIP	4N35300-ND†	.56	.45	.34
	5300	100	300	—	30	2.0/2.0	DIP	4N36-ND	.56	.45	.34
	5300	100	300	—	30	2.0/2.0	DIP	4N36M-ND	.52	.42	.32
	5300	100	300	—	30	2.0/2.0	DIP	4N37FS-ND	.56	.45	.34
	5300	100	300	—	30	2.0/2.0	DIP	4N37MFS-ND	.52	.42	.32
	5300	20	—	—	80	—	DIP	4N38-ND	.91	.69	.52
3	2500	7	18	50	15V	1.5/1.5	DIP	6N135QT-ND	.92	.77	.62
	2500	19	27	50	15V	.8/.8	DIP	6N136QT-ND	.92	.77	.62
4	2500	300	1300	—	7V	10/35	DIP	6N138QT-ND	.90	.75	.60
	2500	400	1100	—	18V	1/7	DIP	6N139QT-ND	.92	.77	.62
1	5300	40	—	80	70	5.0/34	DIP	CNY171FS-ND	.54	.41	.31
	5300	40	60	80	70	5.0/34	DIP	CNY171MFS-ND	.52	.42	.32
	5300	63	100	125	70	8.0/39	DIP	CNY172M-ND	.52	.42	.32
	5300	100	150	200	70	8.0/39	DIP	CNY173M-ND	.52	.42	.32
	5300	40	60	80	70	5.0/34	DIP	CNY171300-ND†	.54	.41	.31
	5300	63	100	125	70	8.0/39	DIP	CNY172FS-ND	.54	.41	.31
	5300	63	100	125	70	8.0/39	DIP	CNY172300-ND†	.54	.41	.31
	5300	100	150	200	70	8.0/39	DIP	CNY173FS-ND	.54	.41	.31
	5300	100	150	200	70	8.0/39	DIP	CNY173300-ND†	.54	.41	.31
	5300	160	—	320	70	8.0/39	DIP	CNY174FS-ND	.54	.41	.31
	5300	160	—	320	70	8.0/39	DIP	CNY174300-ND†	.54	.41	.31
1	5300	50	120	—	70	—	DIP	H11A1FS-ND	.56	.45	.34
	5300	50	120	—	30	2.0/2.0	SMT	H11A1SM-ND	.56	.45	.34
	5300	50	120	—	30	2.0/2.0	DIP	H11A1300-ND†	.56	.45	.34
	5300	20	—	—	70	—	DIP	H11A2FS-ND	.56	.45	.34
6	5300	20	—	—	30	—	DIP	H11AA1300-ND†	.74	.56	.42
	2500	10	—	—	30	2.0/2.0	DIP	H11AA2-ND	.78	.59	.44
	2500	50	—	—	30	2.0/2.0	DIP	H11AA3-ND	.78	.59	.44
	2500	100	—	—	30	2.0/2.0	DIP	H11AA4-ND	.79	.60	.45
1	4000	300	—	—	30	5.0/5.0	DIP	H11AG1-ND	.87	.66	.50
	5300	100	—	300	70	15.0/15.0	DIP	H11AV1AM-NDΔ	.66	.50	.37
	5300	100	—	300	70	15.0/15.0	DIP	H11AV1M-ND	.66	.50	.37
2	5300	500	—	—	25	—	DIP	H11B1-ND	.59	.44	.33
	5300	200	—	—	25	—	DIP	H11B2-ND	.59	.44	.33
	5300	100	—	—	55	25.0/18.0	DIP	H11B255-ND	.59	.44	.33
1	5300	20	—	—	300	—	DIP	H11D1FS-ND	.76	.64	.51
	5300	20	—	—	300	—	DIP	H11D2-ND	.76	.64	.51
	5300	20	—	—	300	5.0/5.0	DIP	H11D2300-ND†	.76	.64	.51
	5300	20	—	—	200	—	DIP	H11D3-ND	.96	.72	.54
7	4000	1000	—	—	100	5/100	DIP	H11G1-ND	.90	.68	.51
	5300	500	—	—	100	5.0/100	SMT	H11G1S-ND	.90	.68	.51
	4000	1000	—	—	80	5/100	DIP	H11G2-ND	.90	.68	.51
7	5300	200	—	—	25	—	DIP	H11G3-ND	.70	.53	.40
3	2500	12	27	—	15V	.45/.3	DIP	HCPL2503QT-ND	.84	.70	.56
8	2500	19	27	50	—	—	SOIC	HCPL0453R1CT-ND	1.68	1.34	1.01
	2500	19	27	50	—	—	SOIC	HCPL0453R1TR-ND*	452.25/500		
	2500	7	2.7	50	—	—	SOIC	HCPL0530R1CT-ND	2.84	2.27	1.77
	2500	7	2.7	50	—	—	SOIC	HCPL0530R1TR-ND*	819.00/500		
	2500	19	27	50	—	—	SOIC	HCPL0531R1CT-ND	3.17	2.54	1.98
	2500	19	27	50	—	—	SOIC	HCPL0531R1TR-ND*	916.50/500		
	2500	15	30	—	—	—	SOIC	HCPL0534R1CT-ND	3.49	2.79	2.17
	2500	15	30	—	—	—	SOIC	HCPL0534R1TR-ND*	1007.50/500		
8	2500	15	—	50	—	—	SOIC	FOD050LR1CT-ND	1.40	1.12	.84
	2500	15	—	50	—	—	SOIC	FOD050LR1TR-ND*	378.00/500		
	5000	19	27	50	—	—	DIP	HCPL4503M-ND§	1.26	1.05	.84
	5000	19	27	50	—	—	SMT	HCPL4503SM-ND§	1.28	1.07	.85
	5000	19	27	50	—	—	DIP	HCPL4503TM-ND§	1.28	1.07	.85
	5000	19	27	50	—	—	DIP	HCPL4503SDMCT-ND	1.29	1.08	.86
	5000	19	27	50	—	—	DIP	HCPL4503SDMTR-ND*	571.90/1,000		
	5000	15	—	50	—	—	DIP	FOD250LSDCT-ND	1.40	1.12	.84
	5000	15	—	50	—	—	DIP	FOD250LSDTR-ND*	728.00/1,000		
9	2500	15	—	50	—	—	SOIC	FOD053LR1CT-ND	2.61	2.09	1.63
	2500	15	—	50	—	—	SOIC	FOD053LR1TR-ND*	754.00/500		
	2500	16	18	—	—	4.5/.5	DIP	HCPL2530-ND	1.94	1.56	1.17
	2500	19	27	—	—	.45/.3	DIP	HCPL2531-ND	1.63	1.30	.98
10	2500	300	—	—	7V	20/35	DIP	HCPL2730QT-ND	1.63	1.30	.98
	2500	400	—	—	18V	2/10	DIP	HCPL2731QT-ND	1.87	1.50	1.13
1	2500	20	60	—	30	5/5	DIP	MCT2E-ND	.51	.39	.29
	2500	20	70	—	30	5/5	DIP	MCT2-ND	.51	.39	.29
	2500	120	225	—	30	6/19	DIP	MCT5201-ND	.87	.66	.50
	2500	70	400	—	30	10/12	DIP	MCT5210-ND	.87	.66	.50
	2500	150	350	—	30	20/20	DIP	MCT5211-ND	.94	.71	.54
11	2500	50	—	—	30	2.4/15	DIP	MCT61-ND	.75	.57	.43
	2500	100	—	—	30	2.4/15	DIP	MCT62-ND	.80	.60	.45
	2500	10	—	—	30	5.0/25.0	SMT	MCT62S-ND	.80	.60	.45
	2500	20	—	—	30	2.4/15	DIP	MCT6-ND	.75	.57	.43
12	2500	50	—	600	55	2.4/2.4	DIP	MCT9001-ND	.96	.72	.54
1	5300	100	300	—	70	10/10	DIP	TIL111-ND	.56	.43	.32
13	5300	300	450	—	30	3.5/95	DIP	MOC119-ND	.66	.50	.37
14	3000	40	60	80	70	3.0/2.8	SMT	MOC205M-ND	.71	.54	.40
	3000	63	94	125	70	3.0/2.8	SMT	MOC206M-ND	.80	.60	.45
	3000	100	150	200	70	3.0/2.8	SMT	MOC207M-ND	.80	.60	.45
	3000	40	80	125	70	3.0/2.8	SMT	MOC208M-ND	.80	.60	.45
	3000	20	65	—	30	7.5/5.7	SMT	MOC211M-ND	.80	.60	.45
	3000	50	90	—	30	7.5/5.7	SMT	MOC212M-ND	.80	.60	.45
	3000	100	140	—	30	7.5/5.7	SMT	MOC213M-ND	.71	.54	.40
	3000	20	—	—	30	4.0/4.0	SMT	MOC215M-ND	.80	.60	.45
	3000	100	—	—	30	4.0/4.0	SMT	MOC217M-ND	.71	.54	.40
15	3000	500	1000	—	30	3.5/95	SMT	MOC223M-ND	.91	.68	.52
16	3000	20	150	—	30	—	SMT	MOC256M-ND	.83	.70	.56
13	5300	500	—	—	50	3.5/95	DIP	MOC8020-ND	.64	.48	.36
	5300	1000	—	—	50	3.5/95	DIP	MOC8021-ND	.64	.48	.36
	5300	300	—	—	50	3.5/95	DIP	MOC8030-ND	.72	.54	.41
	5300	500	—	—	50	3.5/95	DIP	MOC8050-ND	.76	.57	.43
1	5300	50	100	—	30	20.0/20.0	DIP	MOC8100M-ND	.54	.41	.31
5	5300	50	65	80	30	7.5/5.7	DIP	MOC8101-ND	.52	.39	.30
	5300	50	—	150	70	7.5/5.7	DIP	MOC8106-ND	.52	.39	.30
	5300	20	—	—	70	6.0/5.5	DIP	MOC8111-ND	.58	.46	.35
	5300	50	—	—	70	6.0/5.5	DIP	MOC8112-ND	.58	.46	.35
	5300	100	—	—	70	6.0/5.5	DIP	MOC8113-ND	.58	.46	.35
12	2500	100	150	200	70	3.0/2.8	SMT	MOCD207M-ND	.95	.80	.64
	2500	40	—	125	70	3.0/2.8	SMT	MOCD208M-ND	1.03	.86	.69
	2500	20	65	—	30	7.5/5.7	SMT	MOCD211M-ND	.90	.75	.60
	2500	100	—	—	70	3.0/2.8	SMT	MOCD213M-ND	.99	.83	.66

† VDE approval   Δ .4" Lead Spacing   * Tape and Reel Part No.   § Bulk

(Continued)

FAIRCHILD
SEMICONDUCTOR®

Optoisolators *(Cont.)*

Fig.	Iso. Volt.	Current Transfer Ratio - Typ. (%) (Min.	Typ.	Max.)	V_{CEO} (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
12	2500	100	130	—	30	7.5/5.7	SMT	MOCD217M-ND	.96	.81	.65
17	2500	500	1000	—	30	3.5/95	SMT	MOCD223M-ND	.90	.75	.60
20	3750	20	—	50	—	—	MFP	FODM452R1VCT-ND	1.43	1.14	.86
	3750	20	—	50	—	—	MFP	FODM452R1VTR-ND*	384.75/500		
	3750	20	—	50	—	—	MFP	FODM453R1VCT-ND	1.48	1.18	.89
	3750	20	—	50	—	—	MFP	FODM453R1VTR-ND*	398.25/500		
27B	2500	100	—	—	75	—	BGA	FODB100VCT-ND	1.11	.93	.74
	2500	100	—	—	75	—	BGA	FODB100VTR-ND*	1443.00/3,000		
	2500	100	—	—	75	—	BGA	FODB101VCT-ND	1.11	.93	.74
	2500	100	—	—	75	—	BGA	FODB101VTR-ND*	1443.00/3,000		
	2500	100	—	—	75	—	BGA	FODB102VCT-ND	1.11	.93	.74
	2500	100	—	—	75	—	BGA	FODB102VTR-ND*	1443.00/3,000		
21	2500	300	—	5000	—	—	SOIC	HCPL0730R1CT-ND	2.84	2.27	1.77
	2500	300	—	5000	—	—	SOIC	HCPL0730R1TR-ND*	819.00/500		
	2500	500	—	5000	—	—	SOIC	HCPL0731R1CT-ND	3.17	2.54	1.98
	2500	500	—	5000	—	—	SOIC	HCPL0731R1TR-ND*	916.50/500		
22	2500	400	—	7000	—	—	SOIC	FOD070LR1CT-ND	1.53	1.22	.92
	2500	400	—	7000	—	—	SOIC	FOD070LR1TR-ND*	411.75/500		
	2500	400	—	7000	—	—	SOIC	FOD073LR1CT-ND	3.24	2.60	2.02
	2500	400	—	7000	—	—	SOIC	FOD073LR1TR-ND*	936.00/500		
	5000	400	—	7000	—	—	DIP	FOD270LSDCT-ND	1.40	1.12	.84
	5000	400	—	7000	—	—	DIP	FOD270LSDTR-ND*	728.00/1,000		
23	5000	50	—	100	70	—	DIP	FOD2743ASDVCT-ND	.81	.68	.54
	5000	50	—	100	70	—	DIP	FOD2743ASDVTR-ND*	359.10/1,000		
	5000	50	—	100	70	—	DIP	FOD2743BSDVCT-ND	.78	.65	.52
	5000	50	—	100	70	—	DIP	FOD2743BSDVTR-ND*	345.80/1,000		
	5000	50	—	100	70	—	DIP	FOD2743CSDVCT-ND	.75	.63	.50
	5000	50	—	100	70	—	DIP	FOD2743CSDVTR-ND*	332.50/1,000		
24	2500	100	—	200	30	—	SOIC	FOD2712R1VCT-ND†	.96	.80	.64
	2500	100	—	200	30	—	SOIC	FOD2712R1VTR-ND†*	224.00/500		
	5000	100	—	200	30	—	DIP	FOD2741ASDVCT-ND†	.81	.68	.54
	5000	100	—	200	30	—	DIP	FOD2741ASDVTR-ND†*	359.10/1,000		
	5000	100	—	200	30	—	DIP	FOD2741BSDVCT-ND†	.78	.65	.52
	5000	100	—	200	30	—	DIP	FOD2741BSDVTR-ND†*	345.80/1,000		
	5000	100	—	200	30	—	DIP	FOD2741CSDVCT-ND†	.75	.63	.50
	5000	100	—	200	30	—	DIP	FOD2741CSDVTR-ND†*	332.50/1,000		
	2500	100	140	200	70	—	SOIC	FOD2742AR1VCT-ND†	.87	.73	.58
	2500	100	140	200	70	—	SOIC	FOD2742AR1VTR-ND†*	385.70/1,000		
	2500	100	140	200	70	—	SOIC	FOD2742BR1VCT-ND†	.81	.68	.54
	2500	100	140	200	70	—	SOIC	FOD2742BR1VTR-ND†*	359.10/1,000		
	2500	100	140	200	70	—	SOIC	FOD2742CR1VCT-ND†	.75	.63	.50
	2500	100	140	200	70	—	SOIC	FOD2742CR1VTR-ND†*	332.50/1,000		
25	5000	—	—	—	—	—	DIP	FOD2200SDVCT-ND	2.27	1.82	1.42
	5000	—	—	—	—	—	DIP	FOD2200SDVTR-ND*	1287.75/1,000		

† VDE approval   Δ .4” Lead Spacing   * Tape and Reel Part No. § Bulk

SCR and Triac Output Optoisolators

Fig.	Iso. Volt.	Max I_F Trigger (mA)	Min. Blocking Voltage	Max. I_{DRM}	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
18	5300	15	250V	.100	DIP	MOC3010M-ND	.79	.60	.45
	5300	10	250V	.100	DIP	MOC3011M-ND	.79	.60	.45
	5300	5	250V	.100	DIP	MOC3012M-ND	.79	.60	.45
	5300	5	250V	.100	SMT	MOC3012SM-ND	.85	.65	.49
	5300	30	400V	.100	DIP	MOC3020MFS-ND	.79	.60	.45
	5300	15	400V	.100	DIP	MOC3021MFS-ND	.77	.58	.44
	5300	10	400V	.100	DIP	MOC3022MFS-ND	.77	.58	.44
	5300	10	400V	.100	DIP	MOC3022VM-ND†	.77	.58	.44
	5300	5	400V	.100	SMT	MOC3023SM-ND	.84	.63	.47
	5300	5	400V	.100	DIP	MOC3023MFS-ND	.84	.63	.47
19	5300	15	250V	.100	DIP	MOC3031M-ND	.89	.75	.60
	5300	10	250V	.100	DIP	MOC3032M-ND	.89	.75	.60
	5300	5	250V	.100	DIP	MOC3033M-ND	.97	.81	.65
	5300	15	400V	.100	DIP	MOC3041M-ND	.89	.75	.60
	5300	10	400V	.100	DIP	MOC3042M-ND	.89	.75	.60
	5300	5	400V	.100	DIP	MOC3043M-ND	.89	.75	.60
18	5300	15	600V	.100	DIP	MOC3051M-ND	.89	.75	.60
	5300	10	600V	.100	DIP	MOC3052M-ND	.89	.75	.60
19	5300	15	600V	.500	DIP	MOC3061M-ND	.93	.78	.62
	5300	10	600V	.500	DIP	MOC3062M-ND	.96	.72	.54
	5300	5	600V	.500	DIP	MOC3063M-ND	.93	.78	.62
	5300	5	600V	.500	DIP	MOC3063TM-NDΔ	.95	.80	.64
	5300	15	800V	.500	DIP	MOC3081M-ND	1.31	1.05	.79
	5300	10	800V	.500	DIP	MOC3082M-ND	1.35	1.08	.81
	5300	5	800V	.500	DIP	MOC3083M-ND	1.42	1.14	.85
	5300	5	600V	.100	DIP	MOC3163M-ND	1.58	1.26	.95
26	3750	15	250V	100nA	MFP	FODM3010R3VCT-ND	.84	.63	.48
	3750	15	250V	100nA	MFP	FODM3010R3VTR-ND*	147.00/500		
	3750	10	250V	100nA	MFP	FODM3011R3VCT-ND	.90	.68	.51
26	3750	10	250V	100nA	MFP	FODM3011R3VTR-ND*	157.50/500		
	3750	5	250V	100nA	MFP	FODM3012R3VCT-ND	.77	.64	.51
	3750	5	250V	100nA	MFP	FODM3012R3VTR-ND*	178.50/500		
	3750	15	400V	100nA	MFP	FODM3021R3VCT-ND	.86	.72	.57
	3750	15	400V	100nA	MFP	FODM3021R3VTR-ND*	199.50/500		
	3750	10	400V	100nA	MFP	FODM3022R3VCT-ND	.95	.79	.63
	3750	10	400V	100nA	MFP	FODM3022R3VTR-ND*	220.50/500		
	3750	5	400V	100nA	MFP	FODM3023R3VCT-ND	.99	.83	.66
	3750	5	400V	100nA	MFP	FODM3023R3VTR-ND*	231.00/500		
	3750	15	600V	100nA	MFP	FODM3051R3VCT-ND	1.04	.87	.69
	3750	15	600V	100nA	MFP	FODM3051R3VTR-ND*	241.50/500		
	3750	10	600V	100nA	MFP	FODM3052R3VCT-ND	1.13	.94	.75
	3750	10	600V	100nA	MFP	FODM3052R3VTR-ND*	262.50/500		
	3750	5	600V	100nA	MFP	FODM3053R3VCT-ND	1.22	1.02	.81
	3750	5	600V	100nA	MFP	FODM3053R3VTR-ND*	283.50/500		

† VDE approval   Δ .4” Lead Spacing   * Tape and Reel Part No.

4-Pin Couplers

Fig.	Isolation Voltage	Current Transfer Ratio	VCEO (Max.)	Typ. t_{on}/t_{off} (µsec.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
27A	5300	20-300%	35	2.4/2.4	DIP	H11AA814-ND	.49	.38	.28
	5300	50-150%	35	2.4/2.4	DIP	H11AA814A-ND	.49	.38	.28
27B	5300	50-600%	35	2.4/2.4	DIP	H11A817-ND	.45	.36	.27
	5300	80-160%	35	2.4/2.4	DIP	H11A817A-ND	.49	.39	.30
	5300	130-260%	35	2.4/2.4	DIP	H11A817B-ND	.49	.39	.30
	5300	200-400%	35	2.4/2.4	DIP	H11A817C-ND	.49	.39	.30
	5300	300-600%	35	2.4/2.4	DIP	H11A817D-ND	.49	.38	.28

Logic Output Optoisolators

Fig.	Function	Input: LSTTL Output	15M Baud Rt. Output Configuration	Package Type	Digi-Key Part No.	Price Each 1	10	100
28	Buff.	TTL	Totem Pole	DIP	74OL6000-ND	2.61	2.09	1.63
	Buff.	TTL	Totem Pole	SMT	74OL6000S-ND	2.61	2.09	1.63
29	Inv.	TTL	Totem Pole	DIP	74OL6001-ND	2.61	2.09	1.63
30	Buff.	CMOS	Open Collect.	DIP	74OL6010-ND	2.61	2.09	1.63
31	Inv.	CMOS	Open Collect.	DIP	74OL6011-ND	2.61	2.09	1.63

Fig.	Isol. Volt.	$I_{f_{on}}$ Current (Max.) mA	I_{CCL} (Max.)	Oper. Voltage (Max.)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel Pricing 1,000‡
32	5300	1.6	5	16V	SMT	H11L1SM-ND	.96	.80	.64	—
	5300	1.6	5	16V	DIP	H11L1-MQT-ND	.77	.65	.52	—
	5300	1.6	5	16V	DIP	H11L1V-MQT-ND†	.77	.65	.52	—
	5300	10	5	16V	DIP	H11L2-MQT-ND	.77	.65	.52	—
	7500	60	5	16V	DIP	H11L3M-ND	.89	.75	.60	—
	5300	3.2	10	16V	DIP	H11N1-MQT-ND	2.28	1.82	1.37	—
	5300	10	10	16V	DIP	H11N3-MQT-ND	2.01	1.61	1.21	—
	7500	1.6	5	15V	DIP	H11L1M-ND	.89	.75	.60	—
	7500	60	5	15V	DIP	H11L1SR2MCT-ND	.89	.75	.60	394.21
	7500	1.6	5	15V	SMD	H11L1SR2VMCT-ND	.96	.81	.65	426.13
	7500	1.6	5	15V	SMD	H11L1SVM-ND†	.96	.80	.64	—
	7500	1.6	5	15V	DIP	H11L1TM-ND	.96	.80	.64	—
	7500	1.6	5	15V	DIP	H11L1TVM-ND†	.89	.75	.60	—
	7500	1.6	5	15V	DIP	H11L1VM-ND	.96	.80	.64	—
	7500	10.0	5	15V	DIP	H11L2M-ND	.89	.75	.60	—
	7500	10.0	5	15V	SMD	H11L2SM-ND	.89	.75	.60	—
	7500	10.0	5	15V	SMD	H11L2SR2MCT-ND	.92	.77	.62	406.98
	7500	10.0	5	15V	SMD	H11L2SVM-ND†	.90	.75	.60	—
	7500	10.0	5	15V	DIP	H11L2TVM-ND†	.90	.75	.60	—
	7500	10.0	5	15V	DIP	H11L2VM-ND†	.90	.75	.60	—

‡ For Tape and Reel change CT-ND to TR-ND.   † VDE approval

Fig.	Isol. Volt.	Max. Prop. Delay (nS)	Typ. CMR V/µsec.	I_F (mA)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100
33	2500	75	10,000	5	DIP	HCPL2601QT-ND	1.31	1.05	.79
	2500	75	10,000	5	DIP	HCPL2611-ND	1.50	1.20	.90
34	2500	75	10,000	5	DIP	HCPL2630QT-ND	2.43	1.95	1.46
	2500	75	10,000	5	DIP	HCPL2631QT-ND	2.36	1.89	1.47
33	2500	75	10,000	5	DIP	6N137QT-ND	.96	.81	.65
35	3750	75	—	5	SOIC	HCPL0630-ND	2.54	2.04	1.59
	3750	75	5,000	5	SOIC	HCPL0631-ND	2.70	2.16	1.68
	3750	75	25,000	5	SOIC	HCPL0661-ND	5.26	4.21	3.56
36	3750	90	25,000	5	SOIC	FOD060L-ND	1.88	1.50	1.13
	3750	90	25,000	5	SOIC	FOD063L-ND	5.70	4.56	3.85
	5000	90	25,000	5	DIP	FOD260L-ND	1.54	1.23	.93

Fig.	Isolation Voltage	BV_{CEO} (Min.)	Typ. t_{on}/t_{off} (µsec.)	Package Type	Digi-Key Part No.	Price Each 1	10	100
37	2500	5V	1/1	DIP	MID400-ND	2.88	2.30	1.79

FET Outputs

Fig.	Isolation Voltage	Rds ON (Ω)	Vbr (Minimum)	Typ. t_{on}/t_{off} (µS)	Package Type	Digi-Key Part No.	Price Each 1	10	100
38	5300	200	30	25/25	DIP	H11F1-ND	1.88	1.50	1.13
	5300	330	30	25/25	DIP	H11F2-ND	2.36	1.89	1.42
	5300	470	15	25/25	DIP	H11F3-ND	1.88	1.50	1.13

Panasonic® Optoisolators

Fig.	Current Transfer Ratio Min. (%)	Max. (%)	@ IF (ma)	VCE (V)	V_{CEO}	Isolation Voltage (Vrms)	Digi-Key Part No.	Cut Tape Price Each 1	10	100
AC Input Type, SMD, 16-Pin										
1	100	600	±50	0.2	80	2500	CNC7H001CT-ND	2.10	1.68	1.26
DC Input Type, HD4-1 Package										
2	50	600	50	0.2	80	5000	CNC1S171-ND	.71	.54	.40

Fig. 1

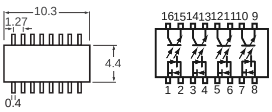

Fig. 2

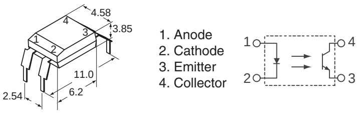

Photocoupler

	Output		Current Transfer Ratio				Isolation Voltage (Vrms)	Package Type	Digi-Key Part No.	Tube Price Each			Sharp Part No.
Fig.	VCEO (V) Max.	IC (mA) Max.	Min. (%)	Max. (%)	@ IF (mA)	@ Vce (V)				1	10	100	
Tube													
1	35	20	10	100	20	5	5000	4-Dip	425-1406-5-ND*	2.18	1.74	1.44	PC512
	35	50	10	100	1	0.4	5000	4-Dip	425-1472-5-ND	1.28	1.02	.85	PC818
	35	50	10	100	1	0.4	5000	4-SMD	425-1473-5-ND	1.02	.85	.68	PC818I
	35	50	10	100	1	0.4	5000	4-Dip	425-1475-5-ND*	1.60	1.28	1.06	PC818Y
	35	50	20	200	1	5	5000	8-Dip	425-1476-5-ND†	2.90	2.39	1.94	PC823
	35	50	50	600	5	5	5000	4-SMD	425-1455-5-ND	.48	.33	.24	PC817XI
	35	50	60	120	1	0.4	5000	4-SMD	425-1435-5-ND	1.50	1.25	1.00	PC810AI
	35	50	60	200	1	0.4	5000	6-Dip	425-1434-5-ND	1.35	1.13	.90	PC810
	35	50	60	200	1	0.4	5000	4-SMD	425-1436-5-ND	1.43	1.14	.95	PC810I
	35	50	80	160	5	5	5000	4-Dip	425-2185-5-ND▲	.48	.33	.24	PC817X1J000F
	35	50	80	160	5	5	5000	4-SMD	425-1470-5-ND	.52	.36	.26	PC817XI1
	35	50	80	160	5	5	5000	4-SMD	425-2191-5-ND▲	.52	.36	.26	PC817XI1J00F
	35	50	130	260	5	5	5000	4-SMD	425-2192-5-ND▲	.52	.36	.26	PC817XI2J00F
	35	50	200	400	5	5	5000	4-Dip	425-1467-5-ND	.48	.33	.24	PC817X3
	35	50	200	600	5	5	5000	4-Dip	425-1469-5-ND	.52	.36	.26	PC817X7
	35	50	300	600	5	5	5000	4-Dip	425-1468-5-ND	.48	.33	.24	PC817X4
	70	50	50	150	0.5	5	5000	4-Dip	425-1311-5-ND	.68	.47	.34	PC123A
	70	50	50	150	5	5	5000	4-Dip	425-1318-5-ND*	.80	.55	.40	PC123Y1
	70	50	50	400	0.5	5	5000	4-Dip	425-1310-5-ND	.72	.50	.36	PC12311NSZ
	70	50	50	400	0.5	5	5000	4-Dip	425-1309-5-ND	.68	.47	.34	PC12310NSZ
	70	50	50	400	5	5	5000	4-Dip	425-1308-5-ND	.60	.42	.30	PC123
	70	50	50	400	5	5	5000	4-Dip	425-1317-5-ND*	.76	.53	.38	PC123Y
	70	50	100	200	0.5	5	5000	4-Dip	425-1316-5-ND	.76	.53	.38	PC123S
	70	50	100	200	5	5	5000	4-Dip	425-1320-5-ND*	.84	.58	.42	PC123YS
	70	50	100	250	0.5	5	5000	4-Dip	425-1312-5-ND	.68	.47	.34	PC123B
	70	50	100	250	5	5	5000	4-Dip	425-1319-5-ND*	.80	.55	.40	PC123Y2
	70	50	100	600	.5	5	5000	4-Dip	425-1456-5-ND	.64	.44	.32	PC81710NSZ
	70	50	120	300	.5	5	5000	4-Dip	425-1458-5-ND	.64	.44	.32	PC81711NSZ
	70	50	160	400	.5	5	5000	4-Dip	425-1460-5-ND	.64	.44	.32	PC81712NSZ
	70	50	200	500	.5	5	5000	4-Dip	425-1462-5-ND	.64	.44	.32	PC81713NSZ
	350	50	40	80 Typ.	5	5	5000	4-Dip	425-1503-5-ND	.80	.55	.40	PC851X
	350	50	40	80 Typ.	5	5	5000	4-SMD	425-1504-5-ND	.88	.61	.44	PC851XI
2	35	50	130	600	5	5	5000	8-Dip	425-1484-5-ND	.87	.73	.58	PC827BD
	35	50	200	600	5	5	5000	8-Dip	425-1485-5-ND	.90	.75	.60	PC827CD
	80	50	1000	—	1	.5	5000	4-Dip	425-1509-5-ND	.76	.53	.38	PC866
3	35	50	50	600	5	5	5000	12-Dip	425-1492-5-ND*	1.55	1.24	1.03	PC837Y
4	70	50	50	600	5	5	5000	16-Dip	425-1499-5-ND	1.35	1.13	.90	PC847X
	300	50	40	80 Typ.	5	5	5000	16-Dip	425-1516-5-ND	6.12	5.04	4.08	PC8Q51
5	35	80	600	7500	1	2	5000	4-Dip	425-1450-5-ND#	.93	.78	.62	PC815
	35	80	600	7500	1	2	5000	4-SMD	425-1454-5-ND*#	1.29	1.08	.86	PC815Y
	35	80	600	12000	.5	2	5000	4-Dip	425-1451-5-ND#	.96	.66	.48	PC81510NSZ
6	35	80	600	7500	1	2	5000	8-Dip	425-1479-5-ND#	1.43	1.14	.95	PC825
	35	80	600	7500	1	2	5000	8-Dip	425-1480-5-ND*#	1.83	1.46	1.21	PC825Y
7	35	80	600	7500	1	2	5000	12-Dip	425-1488-5-ND#	2.20	1.76	1.46	PC835
	35	80	600	7500	1	2	5000	12-Dip	425-1489-5-ND*#	2.54	2.10	1.70	PC835Y
9	35	50	20	300	1	5	5000	4-Dip	425-1446-5-ND†	.56	.39	.28	PC814X
	35	50	50	150	1	5	5000	4-Dip	425-1447-5-ND†	.60	.42	.30	PC814X1
	70	50	50	400	.5	5	5000	4-Dip	425-1444-5-ND†	.80	.55	.40	PC81410NSZ
	70	50	100	300	.5	5	5000	4-Dip	425-1445-5-ND†	.88	.61	.44	PC81411NSZ
10	35	50	20	300	1	5	5000	8-Dip	425-1477-5-ND†	1.32	1.10	.88	PC824
	35	50	50	150	1	5	5000	8-Dip	425-1478-5-ND†	1.08	.90	.72	PC824A
11	35	50	150	300	1	5	5000	16-Dip	425-1495-5-ND	1.48	1.18	.98	PC844X1
12	350	150	1000	15000	1	2	5000	4-Dip	425-1773-5-ND#	.88	.61	.44	PC852X
	350	150	1000	15000	1	2	5000	4-SMD	425-1505-5-ND#◊	.96	.66	.48	PC852XI
	350	150	1000	15000	1	2	5000	4-Dip	425-1506-5-ND#	.92	.64	.46	PC853X
	350	150	1000	15000	1	2	5000	4-SMD	425-1507-5-ND#◊	1.00	.69	.50	PC853XI
13	35	50	50	600	5	5	5000	6-Dip	425-1418-5-ND	.76	.53	.38	PC714V0NSZX
	35	50	50	600	5	5	5000	6-Dip	425-1419-5-ND*	.84	.58	.42	PC714V0YSZX
	35	80	20	80	100	2	5000	6-Dip	425-1426-5-ND*	.88	.61	.44	PC724V0NSZX
14	35	200	1000	15000	1	2	5000	6-Dip	425-1423-5-ND*#	.84	.70	.56	PC716V0YSZX
15	35	50	50	600	5	5	5000	6-Dip	425-1416-5-ND	.80	.55	.40	PC713V0NSZX
	35	50	50	600	5	5	5000	6-Dip	425-1417-5-ND*	.84	.58	.42	PC713V0YSZX
	70	50	40	320	10	5	5000	6-Dip	425-1411-5-ND	.88	.61	.44	PC702V0NSZX
	70	50	40	320	10	5	5000	6-Dip	425-1412-5-ND*	.96	.66	.48	PC702V0YSZX
	70	50	40	320	10	5	5000	6-SMD	425-1413-5-ND	.92	.64	.46	PC703V0NIZX
	70	50	40	320	10	5	5000	6-Dip	425-1414-5-ND	.88	.61	.44	PC703V0NSZX
	70	50	40	320	10	5	5000	6-Dip	425-1415-5-ND*	.92	.64	.46	PC703V0YSZX
	80	50	50	400	5	5	5000	6-Dip	425-1424-5-ND	.96	.66	.48	PC723V0NSZX
17	35	50	15	300	1	5	5000	6-Dip	425-1431-5-ND†	1.35	1.08	.90	PC733
	35	80	20	80	100	2	5000	6-Dip	425-1432-5-ND†	1.53	1.22	1.01	PC733H
18	300	150	1000	15000	1	2	5000	6-Dip	425-1429-5-ND*	1.20	1.00	.80	PC725V0YSZX
19	70	30	50	400	5	5	5000	4-Dip	425-1437-5-ND	.84	.58	.42	PC81100NSZ
	70	30	60	120	5	5	5000	4-Dip	425-1438-5-ND	.88	.61	.44	PC81101NSZ
	70	30	60	200	5	5	5000	4-Dip	425-1441-5-ND	.84	.58	.42	PC81105NSZ
	70	30	60	300	5	5	5000	4-Dip	425-1443-5-ND	.84	.58	.42	PC81108NSZ
	70	30	100	200	5	5	5000	4-Dip	425-1439-5-ND	.88	.61	.44	PC81102NSZ
	70	30	100	300	5	5	5000	4-Dip	425-1442-5-ND	.84	.58	.42	PC81106NSZ
	70	30	150	300	5	5	5000	4-Dip	425-1440-5-ND	.88	.61	.44	PC81103NSZ
20	7VCC	20	300	—	1.6	4.5	2500	8-Dip	425-1800-5-ND	1.98	1.58	1.31	PC6N138X

† AC Input # Darlington Output * Din/VDE 0884 ◊ Power dissipation: PC852XI: 200 and PC853XI: 320 ▲ ***RoHS Compliant***

Fig. 1

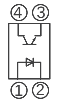

Fig. 2

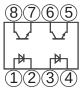

Fig. 3

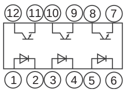

Fig. 4

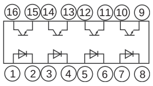

Fig. 5

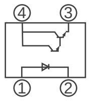

Fig. 6

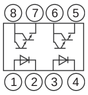

Fig. 7

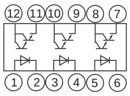

Fig. 8

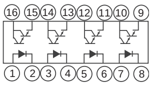

Fig. 9

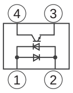

Fig. 10

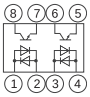

Fig. 11

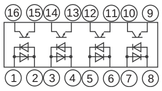

Fig. 12

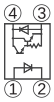

Fig. 13

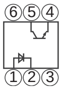

Fig. 14

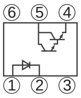

Fig. 15

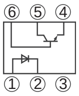

Fig. 16

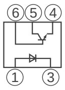

Fig. 17

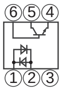

Fig. 18

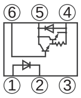

Fig. 19

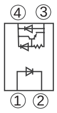

Fig. 20

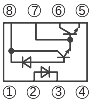

(Continued)

Photocoupler *(Cont.)*

Fig.	Output		Current Transfer Ratio				Isolation	Package	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel		Sharp
	VCEO (V) Max.	IC (mA) Max.	Min. (%)	Max. (%)	@ IF (mA)	@ Vce (V)	Voltage (Vrms)	Type	Part No.	1	10	100	Part No.	Size	Pricing	Part No.
									Cut Tape/Tape & Reel							
1	35	50	50	600	5	5	3750	4-SMD	425-1328-1-ND	.48	.40	.32	425-1328-2-ND	3,000	224.00/M	PC357N
	35	50	50	600	5	5	3750	4-SMD	425-1334-1-ND	.51	.43	.34	425-1334-2-ND	750	178.50	PC357NT
	35	50	80	160	5	5	3750	4-SMD	425-1330-1-ND	.51	.43	.34	425-1330-2-ND	3,000	238.00/M	PC357N1
	35	50	80	600	5	5	3750	4-SMD	425-1329-1-ND	.51	.43	.34	425-1329-2-ND	3,000	238.00/M	PC357N0
	35	50	130	260	5	5	3750	4-SMD	425-1331-1-ND	.51	.43	.34	425-1331-2-ND	3,000	238.00/M	PC357N2
	35	50	130	260	5	5	3750	4-SMD	425-2091-1-ND▲	.51	.43	.34	425-2091-2-ND▲	3,000	238.00/M	PC357N2J000F
	35	50	200	400	5	5	3750	4-SMD	425-1332-1-ND	.51	.43	.34	—	—	—	PC357N3
	35	50	200	400	5	5	3750	4-SMD	425-2092-1-ND▲	.51	.43	.34	425-2092-2-ND▲	3,000	238.00/M	PC357N3J000F
	35	50	300	600	5	5	3750	4-SMD	425-1333-1-ND	.51	.43	.34	—	—	—	PC357N4
	70	50	20	400	1	5	2500	4-SMD	425-1341-1-ND†	.51	.43	.34	425-1341-2-ND†	3,000	238.00/M	PC3H4
	70	50	20	400	1	5	2500	4-SMD	425-2105-1-ND▲	.51	.43	.34	425-2105-2-ND▲	3,000	238.00/M	PC3H4J00000F
	70	50	20	400	1	5	2500	4-SMD	425-1347-1-ND	.45	.38	.30	425-1347-2-ND	3,000	210.00/M	PC3H7
	70	50	20	400	1	5	2500	4-SMD	425-2116-1-ND▲	.45	.38	.30	425-2116-2-ND▲	3,000	210.00/M	PC3H7J00000F
	70	50	35	70	1	5	2500	4-SMD	425-1352-1-ND	.48	.40	.32	425-1352-2-ND	3,000	224.00/M	PC3H7A
	70	50	50	100	1	5	2500	4-SMD	425-1353-1-ND	.51	.43	.34	425-1353-2-ND	3,000	238.00/M	PC3H7B
	70	50	50	400	0.5	5	5000	4-SMD	425-1313-1-ND	.48	.40	.32	425-1313-2-ND	2,000	224.00/M	PC123P
	70	50	50	400	5	5	5000	4-SMD	425-1321-1-ND*	.48	.40	.32	425-1321-2-ND*	2,000	224.00/M	PC123ZY2
	70	50	80	160	1	5	2500	4-SMD	425-1354-1-ND	.51	.43	.34	425-1354-2-ND	3,000	238.00/M	PC3H7C
	70	50	100	250	0.5	5	5000	4-SMD	425-1315-1-ND*	.72	.60	.48	425-1315-2-ND*	2,000	336.00/M	PC123PY2
	70	50	100	250	0.5	5	5000	4-SMD	425-1314-1-ND	.51	.43	.34	425-1314-2-ND	2,000	238.00/M	PC123P2
	70	50	100	500	0.5	5	3750	4-SMD	425-2101-1-ND▲	.51	.43	.34	425-2101-2-ND▲	3,000	238.00/M	PC367NJ0000F
	70	50	150	300	0.5	5	3750	4-SMD	425-2099-1-ND▲	.57	.57	.38	425-2099-2-ND▲	3,000	266.00/M	PC367N1J000F
	70	50	100	600	0.5	5	5000	4-SMD	425-1383-1-ND	.57	.48	.38	425-1383-2-ND	2,000	266.00/M	PC81710NIP
	70	50	100	600	0.5	5	5000	4-SMD	425-2176-1-ND▲	.57	.48	.38	425-2176-2-ND▲	2,000	266.00/M	PC81710NIP0F
	70	50	100	700	0.5	5	2500	4-SMD	425-1348-1-ND	.54	.45	.36	—	—	—	PC3H710NIP
	70	50	100	700	0.5	5	2500	4-SMD	425-2108-1-ND▲	.54	.45	.36	425-2108-2-ND▲	3,000	252.00/M	PC3H710NIP0F
	70	50	120	300	0.5	5	5000	4-SMD	425-1457-1-ND	.60	.50	.40	425-1457-2-ND	2,000	280.00/M	PC81711NIP
	70	50	140	350	0.5	5	2500	4-SMD	425-1349-1-ND	.60	.50	.40	—	—	—	PC3H711NIP
	70	50	140	500	0.5	5	2500	4-SMD	425-1351-1-ND	.60	.50	.40	425-1351-2-ND	3,000	280.00/M	PC3H715NIP
	70	50	160	400	0.5	5	5000	4-SMD	425-1459-1-ND	.60	.50	.40	425-1459-2-ND	2,000	280.00/M	PC81712NIP
	70	50	200	400	0.5	5	3750	4-SMD	425-1340-1-ND	.54	.45	.36	425-1340-2-ND	3,000	252.00/M	PC367N2
	70	50	200	500	0.5	5	2500	4-SMD	425-1350-1-ND	.60	.50	.40	425-1350-2-ND	3,000	280.00/M	PC3H712NIP
	70	50	200	500	0.5	5	5000	4-SMD	425-1461-1-ND	.57	.48	.38	425-1461-2-ND	2,000	266.00/M	PC81713NIP
	350	50	40	80 Typ.	5	5	3750	4-SMD	425-1525-1-ND	.99	.83	.66	425-1525-2-ND	3,000	429.00/M	PC451
4	35	50	50	600	5	5	2500	16-SMD	425-1360-1-ND	2.10	1.84	1.47	425-1360-2-ND	1,000	1329.30	PC3Q67
5	35	80	600	7500	1.0	2	3750	4-SMD	425-1326-1-ND#	.72	.60	.48	425-1326-2-ND#	3,000	336.00/M	PC355N
	35	80	600	12000	0.5	2	3750	4-SMD	425-1337-1-ND#	.60	.50	.40	425-1337-2-ND#	3,000	280.00/M	PC365N
	35	80	600	12000	0.5	2	2500	4-SMD	425-2106-1-ND#▲	.69	.58	.46	425-2106-2-ND#▲	3,000	322.00/M	PC3H510NIP0F
8	35	80	600	12000	0.5	2	2500	16-SMD	425-1357-1-ND#	2.26	1.98	1.59	425-1357-2-ND#	1,000	1430.58	PC3Q510NIP
9	35	50	20	300	1	5	5000	4-SMD	425-1448-1-ND†	.63	.53	.42	425-1448-2-ND†	2,000	294.00/M	PC814XP
	35	50	20	400	1.0	5	3750	4-SMD	425-1324-1-ND†	.51	.43	.34	425-1324-2-ND†	3,000	238.00/M	PC354N
	35	50	50	150	1.0	5	3750	4-SMD	425-1325-1-ND†	.72	.60	.48	425-1325-2-ND†	3,000	336.00/M	PC354N1
	35	50	50	150	1	5	5000	4-SMD	425-1449-1-ND	.63	.53	.42	—	—	—	PC814XP1
	70	50	50	400	0.5	5	3750	4-SMD	425-1335-1-ND†	.69	.58	.46	425-1335-2-ND†	3,000	322.00/M	PC364N
	70	50	50	400	0.5	5	2500	4-SMD	425-1342-1-ND†	.69	.58	.46	425-1342-2-ND†	3,000	322.00/M	PC3H410NIP
	70	50	100	300	0.5	5	3750	4-SMD	425-1336-1-ND†	.72	.60	.48	425-1336-2-ND†	3,000	336.00/M	PC364N1
	70	50	100	300	0.5	5	2500	4-SMD	425-1343-1-ND†	.69	.58	.46	425-1343-2-ND†	3,000	322.00/M	PC3H411NIP
11	35	50	20	400	1	5	2500	16-SMD	425-1358-1-ND†	2.54	2.23	1.78	425-1358-2-ND†	1,000	1607.82	PC3Q64
	70	50	50	150	1	5	2500	4-SMD	425-1344-1-ND†	.54	.45	.36	425-1344-2-ND†	3,000	252.00/M	PC3H4A
	70	50	50	400	0.5	5	2500	16-SMD	425-1356-1-ND†	2.54	2.23	1.78	—	—	—	PC3Q410NIP
12	300	150	1000	—	1	2	3750	4-SMD	425-1526-1-ND	1.17	.98	.78	425-1526-2-ND	3,000	507.00/M	PC452
	350	120	1000	12000	1	2	2500	4-SMD	425-1379-1-ND	.78	.65	.52	425-1379-2-ND	3,000	338.00/M	PC4H520NIP
13	35	80	20	80	100	2	5000	6-SMD	425-1382-1-ND	.78	.65	.52	—	—	—	PC724V0NIPX
16	80	50	50	600	5	5	3750	5-SMD	425-1323-1-ND	.93	.78	.62	425-1323-2-ND	750	302.25	PC353TV

† AC Input # Darlington Output *Din/VDE 0884 ▲ ***RoHS Compliant***

OPIC™ Photocoupler

Fig. 1

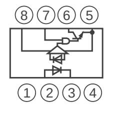

Fig. 2

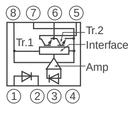

Fig. 3

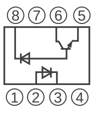

Fig. 4

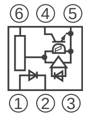

Fig. 5

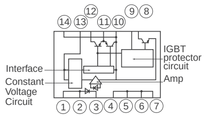

Fig.6

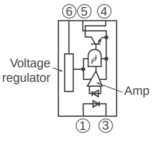

Fig. 7

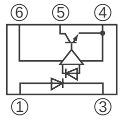

Fig. 8

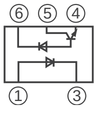

Fig.	Vcc Max. (V)	Prop Delay H-L (us) Typ.	Prop Delay L-H (us) Typ.	Isolation Voltage (Vrms)	Dimensions - mm Length	Dimensions - mm Width	Dimensions - mm Pitch	Package Type	Digi-Key Part No.	Tube Price Each 1	Tube Price Each 10	Tube Price Each 100	Sharp Part No.
								Tube					
1	7	.048	.05	5000	9.66	6.5	2.54	8-Dip	425-1533-5-ND	1.92	1.54	1.27	PC910L0NSZ
	7	.048	.05	5000	9.66	6.5	2.54	8-Dip	425-1534-5-ND*	2.10	1.68	1.39	PC910L0YSZ
2	30	1	1	5000	9.66	6.5	2.54	8-SMD	425-1542-5-ND	1.68	1.34	1.11	PC924XI
	13	2	2	5000	9.66	6.5	2.54	8-Dip	425-1545-5-ND	1.20	1.00	.80	PC942
3	30	.2	.6	5000	9.66	6.5	2.54	8-Dip	425-1546-5-ND	1.33	1.06	.88	PC957L0NSZ
	30	.2	.6	5000	9.66	6.5	2.54	8-Dip	425-1547-5-ND*	1.84	1.48	1.22	PC957L0YSZ
4	15	1	2	5000	7.12	6.5	2.54	6-SMD	425-1529-5-ND	1.17	.98	.78	PC900V0NIZX
	15	1	2	5000	7.12	6.5	2.54	6-Dip	425-1530-5-ND#	.87	.73	.58	PC900V0NSZX
	15	1	2	5000	7.12	6.5	2.54	6-Dip	425-1531-5-ND*	1.17	.98	.78	PC900V0YSZX
	15	1	2	5000	7.12	6.5	2.54	6-Dip	425-1532-5-ND†	1.20	1.00	.80	PC901V0NSZX
5	30	1	1	4000	9.22	6.5	1.27	14-SMD	425-1543-5-ND	2.50	2.06	1.67	PC928

Fig.	Vcc (V) Max.	Prop Delay H-L (us) Typ.	Prop Delay L-H (us) Typ.	Isolation Voltage (Vrms)	Dimensions- mm Length	Dimensions- mm Width	Dimensions- mm Pitch	Package Type	Digi-Key Part No.	Cut Tape Price Each 1	Cut Tape Price Each 10	Cut Tape Price Each 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Sharp Part No.
								Cut Tape/Tape & Reel								
6	15	1	2	3750	3.6	4.4	1.27	6-SMD	425-1520-1-ND	1.70	1.36	1.02	425-1520-2-ND	3,000	867.00/M	PC400
		2	1						425-1521-1-ND	1.70	1.36	1.02	425-1521-2-ND	3,000	867.00/M	PC401
		2	1						425-2143-1-ND▲	1.70	1.36	1.02	425-2143-2-ND▲	3,000	867.00/M	PC401J00000F
7	7	.048	.05	3750	3.6	4.4	1.27	6-SMD	425-2141-1-ND▲	1.75	1.40	1.05	425-2141-2-ND▲	3,000	892.50/M	PC410L0NIP0F
									425-1523-1-ND*	2.27	1.82	1.37	425-1523-2-ND*	3,000	1158.60/M	PC410L0YIP
8	30	.2	.6	3750	3.6	4.4	1.27	6-SMD	425-1528-1-ND*	1.65	1.32	.99	425-1528-2-ND*	3,000	841.50/M	PC457L0YIP

* Din/VDE 0884 # Output, IccH (typ.): 1.0 † Output, IccH (typ.): 2.7 ▲ ***RoHS Compliant***

SHARP®
MICROELECTRONICS

Photocoupler - Thyristor Output

Fig.	Input			Output			Isolation Voltage Max. (Vrms)	Package Type	Digi-Key Part No.	Price Each			Sharp Part No.
	Voltage Typ.	Current Min. (mA)	Current Max. (mA)	Voltage VDRM Max.	Current IT (RMS) Max. (mA)	Holding Current Max. (mA)				1	10	100	
Tube													
1	1.2	10	50	400	100	3.5	5000	6-Dip	425-1322-5-ND#	.81	.68	.54	PC2SD11NTZA
		5	50	600	100	3.5	5000	6-Dip	425-1363-5-ND	.93	.78	.62	PC3SD11NTZC
		5	50	600	100	3.5	5000	6-SMD	425-1364-5-ND	.99	.83	.66	PC3SD11NXZC
		7	50	600	100	3.5	5000	6-Dip	425-1362-5-ND	.93	.78	.62	PC3SD11NTZB
		7	50	600	100	3.5	5000	6-SMD	425-1365-5-ND	.96	.80	.64	PC3SD11NXZB
		10	50	600	100	3.5	5000	6-Dip	425-1366-5-ND	.87	.73	.58	PC3SD12NTZA
		10	50	600	100	3.5	5000	6-SMD	425-1367-5-ND	.90	.75	.60	PC3SD12NXZA
		10	50	600	100	3.5	5000	6-Dip	425-1772-5-ND†	1.40	1.12	.93	S21MD3YY
2	1.2	3	50	600	100	3.5	5000	6-Dip	425-1370-5-ND*	1.08	.90	.72	PC3SD21NTZD
		3	50	600	100	3.5	5000	6-Dip	425-1373-5-ND*†	1.11	.93	.74	PC3SD21YTZD
		3	50	600	100	3.5	5000	6-SMD	425-1375-5-ND*†	1.14	.95	.76	PC3SD21YXZD
		5	50	600	100	3.5	5000	6-Dip	425-1369-5-ND*	.96	.80	.64	PC3SD21NTZC
		5	50	600	100	3.5	5000	6-SMD	425-1371-5-ND*	.99	.83	.66	PC3SD21NXZC
		5	50	600	100	3.5	5000	6-Dip	425-1372-5-ND*†	.99	.83	.66	PC3SD21YTZC
		5	50	600	100	3.5	5000	6-SMD	425-1374-5-ND*†	1.02	.85	.68	PC3SD21YXZC
		5	50	600	50	3.5	3750	4-SMD	425-1300-5-ND†	.96	.80	.64	S2S3LY
		5	50	600	50	3.5	3750	4-SMD	425-1306-5-ND*†	1.05	.88	.70	S2S4LY
		7	50	600	100	3.5	5000	6-Dip	425-1368-5-ND*	.93	.78	.62	PC3SD21NTZB
		7	50	600	100	3.5	5000	6-Dip	425-1271-5-ND◊	1.58	1.26	1.04	S21ME3
		7	50	600	50	3.5	3750	4-SMD	425-1301-5-ND†	.93	.78	.62	S2S3RY
		10	50	600	100	3.5	5000	4-Dip	425-1283-5-ND*#	1.47	1.23	.98	S21ME6F
		10	50	600	100	3.5	5000	4-SMD	425-1285-5-ND*†	1.43	1.14	.95	S21ME6IY
		10	50	600	100	3.5	5000	4-Dip	425-1292-5-ND*	1.11	.93	.74	S21MT2
		10	50	600	50	3.5	3750	4-SMD	425-1297-5-ND	.84	.70	.56	S2S3
		10	50	600	50	3.5	3750	4-SMD	425-1302-5-ND†	.78	.65	.52	S2S3Y
		10	50	600	50	3.5	3750	4-SMD	425-1303-5-ND*	1.05	.88	.70	S2S4
		3	50	800	100	3.5	5000	6-Dip	425-1405-5-ND*	1.41	1.18	.94	PC4SD21NTZD
		3.0	15	800	100	3.5	5000	6-Dip	425-1288-5-ND*#†	2.38	1.90	1.57	S21ME8FY
		3.0	15	800	100	3.5	5000	6-Dip	425-1289-5-ND*†	2.48	1.98	1.64	S21ME8Y
		5	50	800	100	3.5	5000	6-Dip	425-1403-5-ND	1.26	1.05	.84	PC4SD11NTZC
		5	50	800	100	3.5	5000	6-Dip	425-1404-5-ND*	1.32	1.10	.88	PC4SD21NTZC
		7	50	800	100	3.5	5000	6-Dip	425-1402-5-ND	1.17	.98	.78	PC4SD11NTZB
3	1.2	10	50	600	50	3.5	3750	4-SMD	425-1376-5-ND	1.40	1.12	.93	PC3SG11YIZ
		10	50	600	50	3.5	3750	4-SMD	425-1377-5-ND*	1.53	1.22	1.01	PC3SG21YIZ
4	1.2	10	50	400	100	3.5	5000	4-Dip	425-1230-5-ND	1.44	1.20	.96	S11ME5
		10	50	600	100	3.5	5000	4-Dip	425-1291-5-ND	.93	.78	.62	S21MT1
5	1.2	10	50	400	200	1.0	4000	6-Dip	425-1239-5-ND†#	1.70	1.36	1.13	S12ME1FY
		15	50	400	200	1.0	5000	8-Dip	425-1238-5-ND	2.41	1.98	1.61	S12MD3
		10	50	600	200	1.0	2500	8-Dip	425-1296-5-ND	2.43	2.00	1.62	S22MD3
6	1.2	8	50	600	200	1.0	5000	8-Dip	425-1295-5-ND	4.57	3.76	3.05	S22MD2
Cut Tape													
2	1.2	7	50	600	100	3.5	5000	6-SMD	425-1273-1-ND	1.85	1.48	1.11	S21ME3P
		10	50	600	50	3.5	3750	4-SMD	425-2417-1-ND▲	.84	.70	.56	S2S3B00F
		5	50	600	50	3.5	3750	4-SMD	425-1299-1-ND	.87	—	.58	S2S3LB
		10	50	600	50	3.5	3750	4-SMD	425-2422-1-ND▲	1.05	.88	.70	S2S4B00F
		10	50	600	50	3.5	3750	4-SMD	425-1305-1-ND*†	1.05	—	.70	S2S4BY
4	1.2	10	50	600	100	3.5	5000	4-SMD	425-1381-1-ND†	1.44	1.20	.96	S21ME5PY

Fig.	Input			Output			Isolation Voltage Max. (Vrms)	Package Type	Digi-Key Part No.	Tape & Reel		Sharp Part No.
	Voltage Typ.	Current Min. (mA)	Current Max. (mA)	Voltage VDRM Max.	Current IT (RMS) Max. (mA)	Holding Current Max. (mA)				Size	Pricing	
Tape & Reel												
2	1.2	7	50	600	100	3.5	5000	6-SMD	425-1273-2-ND	1,000	943.50	S21ME3P
		10	50	600	50	3.5	3750	4-SMD	425-1297-2-ND	750	273.00	S2S3B
		10	50	600	50	3.5	3750	4-SMD	425-2417-2-ND▲	750	273.00	S2S3B00F
		5	50	600	50	3.5	3750	4-SMD	425-1299-2-ND	3,000	377.00/M	S2S3LB
		10	50	600	50	3.5	3750	4-SMD	425-1303-2-ND*	750	341.25	S2S4B
		10	50	600	50	3.5	3750	4-SMD	425-2422-2-ND▲	750	341.25	S2S4B00F
		10	50	600	50	3.5	3750	4-SMD	425-1305-2-ND*†	3,000	455.00/M	S2S4BY
4	1.2	10	50	600	100	3.5	5000	4-SMD	425-1381-2-ND†	2,000	624.00/M	S21ME5PY

* Built-in zero cross circuit   # Wide format   † Din/VDE 0884   ◊ VDE 68328   ▲ ***RoHS Compliant***

Fig. 1

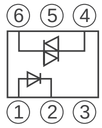

Fig. 2

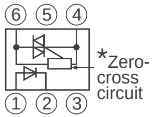

*PC3SD21 series
PC4SD21 series
S21ME8 series
S21ME4 series
S21ME6 series
S21MT2 series
S2S4 series

Fig. 3

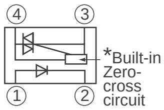

*The Zero-cross circuit is PC3SG21YIZ

Fig. 4

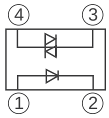

Fig. 5

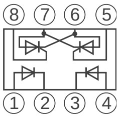

Fig. 6

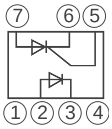

NVE CORPORATION

IsoLoop® High Performance Digital Isolators

IsoLoop® digital isolators from NVE are superior performance alternatives to traditional opto-couplers or optoisolators. These highly integrated devices deliver up to 100MBd of data per channel with only 2ns Pulse Width Distortion. They are available in single, dual and quad channel form factors. IsoLoop® bus isolators offer the designer highly compact, isolated RS 485 and RS 422 compliant devices. These high-speed products are ideal for many industrial communication applications, including PROFIBUS.

Features:

IL260 and IL261: • 3.3V/5V CMOS/TTL Compatible • 110Mbps Data Rate • 2500Vrms Isolation (1 minute) • 2ns Typical Pulse Width Distortion • 10ns Typical Propagation Delay • 30k/Vµs Typical Transient Immunity
IL3185E AND IL3122E: • 5Mbps Data Rate • 2500Vrms Isolation (1 minute) • 10ns Typical Propagation Delay
IL3285E AND IL3222E: • 1Mbps Data Rate • 5ns Pulse Skew • 2500Vrms Isolation (1 minute) • 40ns Typical Propagation Delay • 20k/Vµs Typical Transient Immunity
IL3485E AND IL3422E: • 20Mbps Data Rate • 2500Vrms Isolation (1 minute) • 10ns Typical Propagation Delay
IL422: • 2500Vrms Isolation (1 minute) • 25ns Propagation Delay • 25MBd Data Rate • 1ns Pulse Skew • ±60mA Driver Output Capability • Thermal Shutdown Protection • Meets or Exceeds EIA 422-B, EIA 485-A and ITU Recommendation VII • UL 1577 Approval (pending)
IL485 and IL485W: • 35MBd Data Rate • 25ns Propagation Delay • 2500Vrms Isolation (1 minute)
IL610, IL611, IL612, IL613, IL613E, IL614 AND IL614E: • 40Mbps Data Rate • Open Drain or CMOS Outputs • Low Power Dissipation • Failsafe Output (Logic high output for zero coil current)
IL610A, IL611A, IL612A: • 10Mbps Data Rate • Open Drain or CMOS Outputs • Low Power Dissipation • Failsafe Output (Logic high output for zero coil current)
IL710, IL710T, IL711, IL711T, IL712, IL712T: • 100-110MBd Data Rate • 2ns Typical Pulse Width Distortion • 10ns Typical Propagation Delay • 30kV/µs Transient Immunity • 2500Vrms Isolation (1 minute)
IL715, IL715T, IL716, IL716T, IL717 and IL717T: • 100MBd Data Rate; T-Series: 110MBd Data Rate • 2ns Typical Pulse Width Distortion • 10ns Typical Propagation Delay • 30kV/µs Transient Immunity; T-Series: 30kV/µs Transient Immunity • 2500Vrms Isolation (1 minute)
IL3585: • 40Mbps Data Rate • 5ns Pulse Skew • 20ns Propagation Delay • 20kV/µs Transient Immunity • 2500Vrms Isolation (1 minute)

IL260

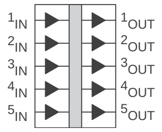

IL261

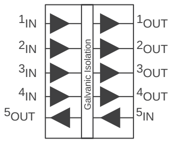

IL422

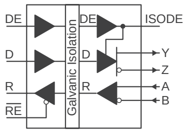

IL485, IL485-3V

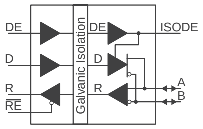

IL485W

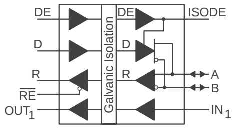

IL610

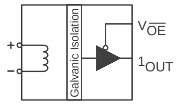

IL610A

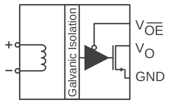

IL611

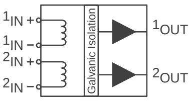

IL611A

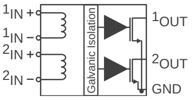

IL612

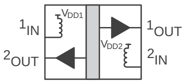

IL612A ***NEW!***

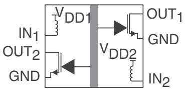

IL613E ***NEW!***

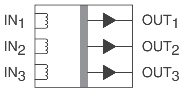

IL614E ***NEW!***

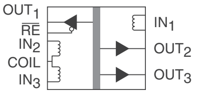

IL710, IL710T

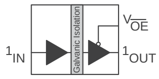

IL711, IL711T

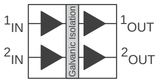

IL712, IL712T

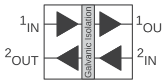

IL715, IL715T

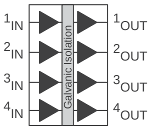

IL716, IL716T

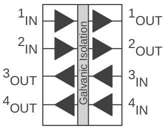

IL717, IL717T

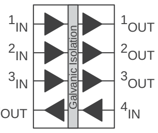

IL3185E, IL3285E, IL3485E ***NEW!***

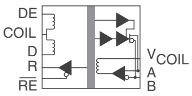

IL3122E, IL3222E, IL3422E ***NEW!***

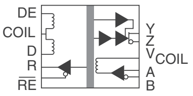

IL3585

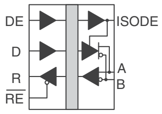

Supply Voltage	Package Type	Temperature Range	Digi-Key Part No.	Price Each 1	10	25	100	NVE Part No.
3.3/5.0V	16-SOICW	-40°C ~ 85°C	390-1050-5-ND	10.26	8.21	7.30	6.33	IL260
5.0V	16-SOICW		390-1051-5-ND	9.74	7.80	6.94	6.01	IL260B
5.0V	16-SOIC		390-1053-5-ND	9.74	7.80	6.94	6.01	IL260-3B
5.0V	16-SOIC	-40°C ~ 85°C	390-1032-5-ND	9.74	7.80	6.93	6.01	IL261B
4.5/5.5V	16-SOICW	-40°C ~ 85°C	390-1000-ND	8.85	8.27	7.24	6.27	IL422
3.3/5.0V	16-SOIC	-40°C ~ 85°C	390-1018-5-ND	8.62	8.05	7.05	6.11	IL485-3V
4.5/5.5V	16-SOICW		390-1002-ND	8.90	8.24	7.18	6.18	IL485W
3.3/5.0V	8-PDIP	-40°C ~ 85°C	390-1020-5-ND	2.76	2.21	1.87	1.66	IL610-2
			390-1023-5-ND	2.76	2.21	1.87	1.66	IL610A-2
3.3/5.0V	8-PDIP	-40°C ~ 85°C	390-1029-5-ND	3.64	3.37	2.79	2.35	IL611A-2
3.3/5.0V	8-PDIP	-40°C ~ 85°C	390-1042-5-ND	3.64	3.37	2.79	2.35	IL612-2
3.3/5.0V	8-DIP	-40°C ~ 100°C	390-1003-ND	3.40	3.15	2.74	2.36	IL710-2
	8-SOIC	-40°C ~ 100°C	390-1004-ND	3.40	3.15	2.74	2.36	IL710-3
	8-SOIC	-40°C ~ 125°C	390-1035-5-ND	5.98	4.79	4.27	3.70	IL710T-3
3.3/5.0V	8-SOIC	-40°C ~ 100°C	390-1006-ND	5.78	5.35	4.66	4.01	IL711-3
	8-SOIC	-40°C ~ 125°C	390-1036-5-ND	10.16	8.13	7.70	6.68	IL711T-3
3.3/5.0V	8-DIP	-40°C ~ 100°C	390-1007-ND	5.78	5.35	4.66	4.01	IL712-2
	8-SOIC	-40°C ~ 100°C	390-1008-ND	5.78	5.35	4.67	4.02	IL712-3
	8-SOIC	-40°C ~ 125°C	390-1037-5-ND	10.16	8.13	7.25	6.28	IL712T-3
3.3/5.0V	16-SOICW	-40°C ~ 100°C	390-1009-ND	7.46	6.91	6.02	5.18	IL715
	16-SOIC	-40°C ~ 100°C	390-1012-ND	7.46	6.91	6.02	5.18	IL715-3
	16-SOICW	-40°C ~ 125°C	390-1038-5-ND	13.14	10.52	9.35	8.10	IL715T
	16-SOIC	-40°C ~ 125°C	390-1039-5-ND	13.14	10.52	9.35	8.10	IL715T-3
3.3/5.0V	16-SOIC	-40°C ~ 100°C	390-1013-ND	7.46	6.91	6.02	5.18	IL716-3
	16-SOICW	-40°C ~ 125°C	390-1040-5-ND	13.14	10.52	9.35	8.10	IL716T
3.3/5.0V	16-SOIC	-40°C ~ 100°C	390-1014-ND	7.46	6.91	6.02	5.18	IL717-3
	16-SOICW	-40°C ~ 125°C	390-1041-5-ND	13.14	10.52	9.35	8.10	IL717T
3.3/5.0V	16-SOICW	-40°C ~ 85°C	390-1033-5-ND	8.44	6.76	6.10	5.28	IL3585
NEW! RoHS Compliant NEW!								
3.3/5.0V	16-SOICW	-40°C ~ 85°C	390-1068-5-ND	9.16	8.56	7.49	6.20	IL260E
	16-SOIC		390-1069-5-ND	9.16	8.56	7.49	6.20	IL260-3E
3.3/5.0V	16-SOICW	-40°C ~ 85°C	390-1070-5-ND	9.16	8.56	7.49	6.20	IL261E
	16-SOIC		390-1071-5-ND	9.20	7.36	6.55	5.68	IL261-3E
4.5/5.5V	16-SOICW	-40°C ~ 85°C	390-1074-5-ND	8.69	8.12	7.11	6.16	IL422E
4.5/5.5V	16-SOICW	-40°C ~ 85°C	390-1072-5-ND	8.38	7.83	6.86	5.94	IL485E

Supply Voltage	Package Type	Temperature Range	Digi-Key Part No.	Price Each 1	10	25	100	NVE Part No.
4.5/5.5V	16-SOICW	-40°C ~ 85°C	390-1073-5-ND	8.85	8.27	7.24	6.27	IL485WE
3.3/5.0V	8-MSOP	-40°C ~ 85°C	390-1075-5-ND	3.80	3.55	3.11	2.70	IL610-1E
	8-DIP		390-1076-5-ND	3.65	3.41	2.98	2.59	IL610-2E
	8-SOIC		390-1077-5-ND	3.65	3.41	2.98	2.59	IL610-3E
	8-MSOP		390-1078-5-ND	3.26	3.05	2.67	2.31	IL610A-1E
	8-DIP		390-1079-5-ND	3.10	2.90	2.54	2.20	IL610A-2E
	8-SOIC		390-1080-5-ND	3.10	2.90	2.54	2.20	IL610A-3E
3.3/5.0V	8-MSOP	-40°C ~ 85°C	390-1081-5-ND	6.05	5.66	4.95	4.29	IL611-1E
	8-DIP		390-1082-5-ND	5.90	5.51	4.83	4.18	IL611-2E
	8-SOIC		390-1083-5-ND	5.90	5.51	4.83	4.18	IL611-3E
	8-MSOP		390-1084-5-ND	4.89	4.57	4.00	3.47	IL611A-1E
	8-DIP		390-1085-5-ND	4.73	4.42	3.87	3.36	IL611A-2E
	8-SOIC		390-1086-5-ND	4.73	4.42	3.87	3.36	IL611A-3E
3.3/5.0V	8-DIP	-40°C ~ 85°C	390-1087-5-ND	5.90	5.51	4.83	4.18	IL612-2E
	8-SOIC		390-1088-5-ND	5.90	5.51	4.83	4.18	IL612-3E
	8-DIP		390-1089-5-ND	4.73	4.42	3.87	3.36	IL612A-2E
	8-SOIC		390-1090-5-ND	4.73	4.42	3.87	3.36	IL612A-3E
3.3/5.0V	16-SOICW	-40°C ~ 85°C	390-1091-5-ND	6.75	6.31	5.52	4.79	IL613E
	16-SOIC		390-1092-5-ND	6.91	6.45	5.65	4.90	IL613-3E
3.3/5.0V	16-SOICW	-40°C ~ 85°C	390-1093-5-ND	6.83	6.38	5.59	4.84	IL614E
	16-SOIC		390-1094-5-ND	6.99	6.53	5.72	4.95	IL614-3E
3.3/5.0V	8-DIP	-40°C ~ 100°C	390-1056-5-ND	3.57	3.34	2.92	2.53	IL710-2E
	8-SOIC		390-1057-5-ND	3.57	3.34	2.92	2.53	IL710-3E
3.3/5.0V	8-DIP	-40°C ~ 100°C	390-1058-5-ND	5.82	5.44	4.76	4.13	IL711-2E
	8-SOIC		390-1059-5-ND	5.82	5.44	4.76	4.13	IL711-3E
3.3/5.0V	8-DIP	-40°C ~ 100°C	390-1060-5-ND	5.78	5.35	4.66	4.01	IL712-2E
	8-SOIC		390-1061-5-ND	5.78	5.35	4.66	4.01	IL712-3E
3.3/5.0V	16-SOICW	-40°C ~ 100°C	390-1062-5-ND	7.68	7.18	6.29	5.45	IL715E
	16-SOIC		390-1063-5-ND	7.68	7.18	6.29	5.45	IL715-3E
3.3/5.0V	16-SOICW	-40°C ~ 100°C	390-1064-5-ND	7.68	7.18	6.29	5.45	IL716E
	16-SOIC		390-1065-5-ND	8.04	7.44	6.49	5.59	IL716-3E
3.3/5.0V	16-SOICW	-40°C ~ 100°C	390-1066-5-ND	7.68	7.18	6.29	5.45	IL717E
	16-SOIC		390-1067-5-ND	8.04	7.44	6.49	5.59	IL717-3E
3.3/5.0V	16-SOICW	-40°C ~ 85°C	390-1096-5-ND	5.36	5.00	4.38	3.80	IL3122E
			390-1095-5-ND	5.36	5.00	4.38	3.80	IL3185E
3.3V	16-SOICW	-40°C ~ 85°C	390-1098-5-ND	6.36	5.95	5.21	4.51	IL3222E
			390-1097-5-ND	6.36	5.95	5.21	4.51	IL3285E
3.3/5.0V	16-SOICW	-40°C ~ 85°C	390-1100-5-ND	6.99	6.53	5.72	4.95	IL3422E
			390-1099-5-ND	6.99	6.53	5.72	4.95	IL3485E
3.3/5.0V	16-SOICW	-40°C ~ 85°C	390-1101-5-ND	8.23	7.69	6.73	5.83	IL3585E

Phototransistor Optocouplers

Fig.	Package	CTR Range (%)	V_{ceo}	Rise/Fall Time (µs)	Isolated Voltage	Digi-Key Part No.	Pricing			T&R Pricing 3,000*	Avago Part No.
							1	10	100		
1	6-DIP	40/80	70V	5/5	5,000	516-1002-5-ND	.40	2.75	20.00	—	CNY17-1
RoHS Compliant											
1	6-DIP	20/-	30V	3/3	2,500	516-1556-5-ND	.40	2.75	20.00	—	4N25-000E
		100/-	30V	3/3	3,550	516-1557-5-ND	.40	2.75	20.00	—	4N35-000E
		40/80	70V	5/5	5,000	516-1574-5-ND	.40	2.75	20.00	—	CNY17-1-000E
		63/125	70V	5/5	5,000	516-1575-5-ND	.40	2.75	20.00	—	CNY17-2-000E
		100/200	70V	5/5	5,000	516-1576-5-ND	.40	2.75	20.00	—	CNY17-3-000E
		160/320	70V	5/5	5,000	516-1577-5-ND	.40	2.75	20.00	—	CNY17-4-000E
2	4-SMD	80/600	80V	4/3	3,500	516-1646-1-ND	.33	2.75	22.00	154.00/M	HCPL-181-000E
	4-DIP	50/600	35V	4/3	5,000	516-1585-5-ND	.36	2.48	18.00	—	HCPL-817-000E

Optocouplers - Low Input Current, High Gain

Fig.	Package	CTR (Typical)	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			T&R Pricing 1,500*	Avago Part No.
						1	10	100		
3	8-DIP	400%@0.5mA	18	3,750	516-1009-5-ND	1.35	11.25	90.00	—	6N139
	8-SOIC	400%@0.5mA	18	3,750	516-1010-5-ND	1.65	13.20	108.90	—	HCPL-0701
4	5-SOIC	1600%@1.6mA	18	3,750	516-1012-5-ND	1.95	15.60	128.70	—	HCPL-M701
5	8-SOIC	3500%@40µA	18	3,750	516-1013-5-ND	2.39	19.61	159.00	—	HCPL-070A
6	8-DIP	300%@1.6mA	7	3,750	516-1014-5-ND	2.36	19.43	157.50	—	HCPL-2730
	8-SOIC	300%@1.6mA	7	3,750	516-1015-5-ND	3.35	27.57	223.50	—	HCPL-0730
	8-DIP	400%@0.5mA	18	3,750	516-1016-5-ND	2.48	20.35	165.00	—	HCPL-2731
7	6-DIP	1200%@1.0mA	7	3,750	516-1021-5-ND	2.03	16.20	133.65	—	4N45
	6-DIP	1500%@1.0mA	20	3,750	516-1022-5-ND	2.43	19.40	160.05	—	4N46
RoHS Compliant										
3	8-DIP	300%@1.6mA	7	3,750	516-1600-5-ND	1.35	11.25	90.00	—	6N138-000E
	8-SOIC	300%@1.6mA	7	3,750	516-1636-5-ND	1.48	11.80	97.35	—	HCPL-0700-000E
	8-DIP	400%@0.5mA	18	3,750	516-1601-5-ND	1.35	11.25	90.00	—	6N139-000E
	8-SOIC	400%@0.5mA	18	3,750	516-1637-5-ND	1.65	13.20	108.90	—	HCPL-0701-000E
	8-SOIC	400%@0.5mA	18	3,750	516-1488-1-ND	1.70	13.60	112.20	884.00/M	HCPL-0701-500E
	8-DIP(W)	400%@0.5mA	18	5,000	516-1612-5-ND	2.41	19.80	160.50	—	HCNW139-000E
	8-SMD	400%@0.5mA	18	5,000	516-1613-5-ND	2.45	20.17	163.50	—	HCNW139-300E
5	8-SOIC	3500%@40µA	18	3,750	516-1638-5-ND	2.39	19.61	159.00	—	HCPL-070A-000E
	8-DIP	3500%@40µA	18	3,750	516-1681-5-ND	4.86	39.96	324.00	—	HCPL-4731-000E
	8-SOIC	3500%@40µA	18	3,750	516-1643-5-ND	6.50	53.47	433.50	—	HCPL-073A-000E
6	8-SOIC	1300%@0.5mA	3.3	3,750	516-1644-5-ND	3.60	29.60	240.00	—	HCPL-073L-000E
	8-DIP	300%@1.6mA	7	3,750	516-1542-5-ND	2.36	19.43	157.50	—	HCPL-2730-000E
	8-SOIC	300%@1.6mA	7	3,750	516-1641-5-ND	3.35	27.57	223.50	—	HCPL-0730-000E
	8-DIP	400%@0.5mA	18	3,750	516-1543-5-ND	2.48	20.35	165.00	—	HCPL-2731-000E
	8-SOIC	400%@0.5mA	18	3,750	516-1642-5-ND	3.74	30.71	249.00	—	HCPL-0731-000E
	8-SOIC	400%@0.5mA	18	3,750	516-1535-1-ND	3.36	29.40	235.20	2126.88/M	HCPL-0731-500E
7	6-DIP	1500%@1.0mA	20	3,750	516-1596-5-ND	2.43	19.40	160.05	—	4N46-000E

Optocouplers

Fig.	Package	CTR Range (%)	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			T&R Pricing 1,500*	Avago Part No.
						1	10	100		
8	8-SOIC	7~50	30	3,750	516-1024-5-ND	1.30	10.40	85.80	—	HCPL-0500
	8-DIP(W)	7~50	30	5,000	516-1025-5-ND	1.90	15.20	125.40	—	HCNW135
	8-SOIC	19~50	30	3,750	516-1030-5-ND	1.43	11.40	94.05	—	HCPL-0452
	8-DIP	19~50	30	3,750	516-1029-5-ND	1.47	12.25	98.00	—	HCPL-4502
	8-DIP(W)	19~50	30	5,000	516-1031-5-ND	2.00	16.00	132.00	—	HCNW4502
	8-DIP	19~50	30	3,750	516-1032-5-ND	1.88	15.00	123.75	—	HCPL-4503
	8-SOIC	19~50	30	3,750	516-1033-5-ND	2.05	16.40	135.30	—	HCPL-0453
	8-DIP(W)	19~50	30	5,000	516-1034-5-ND	2.41	19.80	160.50	—	HCNW4503
9	8-DIP	26~65	30	3,750	516-1035-5-ND	2.10	16.80	138.60	—	HCPL-4504
	8-DIP(W)	25~65	30	5,000	516-1037-5-ND	2.68	22.02	178.50	—	HCNW4504
10	8-SMD	44~90	30	3,750	516-1039-5-ND	2.38	19.00	156.75	—	HCPL-4506#300
	8-SOIC	44~90	30	3,750	516-1040-5-ND	2.86	23.50	190.50	—	HCPL-0466
	8-DIP(W)	44~90	30	5,000	516-1041-5-ND	2.75	22.57	183.00	—	HCNW4506
11	8-DIP	7~50	30	3,750	516-1042-5-ND	2.10	16.80	138.60	—	HCPL-2530
	8-SOIC	7~50	30	3,750	516-1043-5-ND	3.04	24.98	202.50	—	HCPL-0530
	8-DIP	19~50	30	3,750	516-1044-5-ND	2.20	17.60	145.20	—	HCPL-2531
	8-SMD	19~50	30	3,750	516-1045-5-ND	2.25	18.00	148.50	—	HCPL-2531#300
	8-SOIC	19~50	30	3,750	516-1046-5-ND	3.15	25.90	210.00	—	HCPL-0531
	8-SOIC	19~50	30	3,750	516-1047-5-ND	4.79	39.41	319.50	—	HCPL-0534
	8-SOIC	15~50	3.3	3,750	516-1048-5-ND	3.42	28.12	228.00	—	HCPL-053L

† 8MBd ‡ Dual Channel *For Tape and Reel part number, change 1-ND to 2-ND. *(**Note:** 8-SMD = PDip Package with Gullwing Leads; (W) = .4 inch row spacing)*

Fig. 1

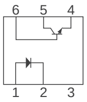

Fig. 2

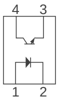

Fig. 3

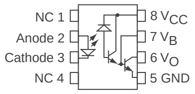

Fig. 4

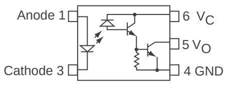

Fig. 5

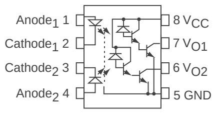

Fig. 6

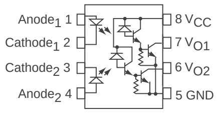

Fig. 7

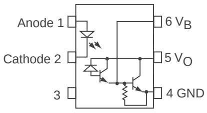

Fig. 8

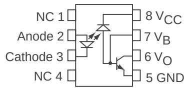

Fig. 9

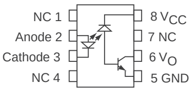

Fig. 10

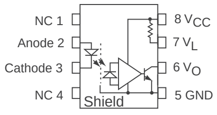

(Continued)

Optocouplers *(Cont.)*

Fig.	Package	CTR Range (%)	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			T&R Pricing 1,500*	Avago Part No.
						1	10	100		
RoHS Compliant										
8	8-DIP	7~50	15	3,750	516-1597-5-ND	1.35	11.25	90.00	—	6N135-000E
	8-SOIC	7~50	30	3,750	516-1630-5-ND	1.30	10.40	85.80	—	HCPL-0500-000E
	8-DIP(W)	7~50	30	5,000	516-1610-5-ND	1.90	15.20	125.40	—	HCNW135-000E
	8-DIP	19~50	15	3,750	516-1520-5-ND	1.13	9.00	74.25	—	6N136-000E
	8-SMD	19~50	15	3,750	516-1598-5-ND	1.41	11.75	94.00	—	6N136-300E
	8-SOIC	19~50	30	3,750	516-1529-1-ND	1.50	12.00	90.00	765.00/M	HCPL-0501-500E
	8-DIP(W)	19~50	30	5,000	516-1524-5-ND	2.00	16.00	132.00	—	HCNW136-000E
	8-SOIC	19~50	30	3,750	516-1628-5-ND	1.48	11.80	97.35	—	HCPL-0452-000E
	8-DIP	19~50	30	3,750	516-1678-5-ND	1.47	12.25	98.00	—	HCPL-4502-000E
	8-DIP(W)	19~50	30	5,000	516-1525-5-ND	2.00	16.00	132.00	—	HCNW4502-000E
	8-DIP	19~50	30	3,750	516-1548-5-ND	1.88	15.00	123.75	—	HCPL-4503-000E
	8-SOIC	19~50	30	3,750	516-1528-5-ND	2.05	16.40	135.30	—	HCPL-0453-000E
	8-DIP(W)	19~50	30	5,000	516-1620-5-ND	2.41	19.80	160.50	—	HCNW4503-000E
	8-SMD(W)	19~50	30	5,000	516-1621-5-ND	2.45	20.17	163.50	—	HCNW4503-300E
	8-DIP	15~22	30	3,750	516-1658-5-ND	1.98	15.80	130.35	—	HCPL-2502-000E
9	8-DIP	26~65	30	3,750	516-1479-5-ND	2.10	16.80	138.60	—	HCPL-4504-000E
	8-SOIC	26~65	30	3,750	516-1629-5-ND	2.30	18.40	151.80	—	HCPL-0454-000E
	8-SMD(W)	23~25	30	5,000	516-1622-5-ND	2.72	22.39	181.50	—	HCNW4504-300E
10	8-DIP	44~90	30	3,750	516-1549-5-ND	2.33	18.60	153.45	—	HCPL-4506-000E
	8-DIP(W)	44~90	30	5,000	516-1623-5-ND	2.75	22.57	183.00	—	HCNW4506-000E
	8-SMD(W)	44~90	30	5,000	516-1624-5-ND	2.79	22.94	186.00	—	HCNW4506-300E
11	8-DIP	7~50	30	3,750	516-1659-5-ND	2.10	16.80	138.60	—	HCPL-2530-000E
	8-SOIC	7~50	30	3,750	516-1631-5-ND	3.04	24.98	202.50	—	HCPL-0530-000E
	8-DIP	19~50	30	3,750	516-1474-5-ND	2.20	17.60	145.20	—	HCPL-2531-000E
	8-SMD	19~50	30	3,750	516-1660-5-ND	2.25	18.00	148.50	—	HCPL-2531-300E
	8-SOIC	19~50	30	3,750	516-1484-1-ND	2.84	24.85	198.80	1846.00/M	HCPL-0531-500E
	8-SOIC	19~50	30	3,750	516-1530-5-ND	3.15	25.90	210.00	—	HCPL-0531-000E
	8-SOIC	15~50	3.6	3,750	516-1632-5-ND	3.42	28.12	228.00	—	HCPL-053L-000E

High Bandwidth Analog/Video Optocouplers

Fig.	Package	CTR % (Typ.)	Bandwidth MHz (Typ.)	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			Avago Part No.
							1	10	100	
8	8-DIP(W)	52	9	30V	5,000	516-1050-5-ND	2.72	22.39	181.50	HCNW4562
	8-SMD(W)	52	9	30V	5,000	516-1051-5-ND	2.77	22.76	184.50	HCNW4562#300
	8-DIP	45	17	30V	3,750	516-1052-5-ND	2.32	19.06	154.50	HCPL-4562
RoHS Compliant										
8	8-DIP	45	17	30V	3,750	516-1679-5-ND	2.32	19.06	154.50	HCPL-4562-000E

Logic Gate Optocouplers - 5MBd, 8MBd

Fig.	Package	Common Mode Rejection	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			Tape and Reel*		Avago Part No.
						1	10	100	Size	Pricing	
12	8-SMD	1,000V/µs	20	3,750	516-1054-5-ND	2.54	20.91	169.50	—	—	HCPL-2200#300
13	8-SOIC	1,000V/µs	20	3,750	516-1055-2-ND	—	—	—	1,500	1560.00/M	HCPL-0201#500
	8-SOIC	1,000V/µs	20	3,750	516-1055-5-ND	2.66	21.83	177.00		—	HCPL-0201
	8-SOIC	5,000V/µs	20	3,750	516-1056-2-ND	—	—	—	1,500	1794.00/M	HCPL-0211#500
	8-SOIC	5,000V/µs	20	3,750	516-1056-5-ND	3.06	25.16	204.00	—	—	HCPL-0211
	8-DIP	1,000V/µs	20	3,750	516-1057-5-ND	2.43	19.98	162.00	—	—	HCPL-2201
	8-DIP(W)	5,000V/µs	20	5,000	516-1065-5-ND	3.15	25.90	210.00	—	—	HCNW2211
	8-SMD(W)	5,000V/µs	20	5,000	516-1066-5-ND	3.20	26.27	213.00	—	—	HCNW2211#300
14	8-DIP	1,000V/µs	20	3,750	516-1058-5-ND	2.43	19.98	162.00	—	—	HCPL-2202
15	8-DIP	5,000V/µs	20	3,750	516-1063-5-ND	8.21	67.53	547.50	—	—	HCPL-2232
16	8-DIP	100V/µs	5	3,750	516-1068-5-ND†	4.50	37.00	300.00	—	—	HCPL-2300
	8-SMD	100V/µs	5	3,750	516-1069-5-ND†	4.55	37.37	303.00	—	—	HCPL-2300#300
RoHS Compliant											
12	8-DIP	1,000V/µs	20	3,750	516-1647-5-ND	2.50	20.54	166.50	—	—	HCPL-2200-000E
	8-DIP	1,000V/µs	20	3,750	516-1648-1-ND	2.54	20.91	169.50	1,000	1431.00	HCPL-2200-500E
13	8-SOIC	1,000V/µs	20	3,750	516-1483-1-ND	2.40	21.00	168.00	1,500	1560.00/M	HCPL-0201-500E
	8-SOIC	1,000V/µs	20	3,750	516-1704-5-ND	2.66	21.83	177.00	—	—	HCPL-0201-000E
	8-SOIC	5,000V/µs	20	3,750	516-1625-5-ND	3.06	25.16	204.00	—	—	HCPL-0211-000E
	8-SOIC	5,000V/µs	20	3,750	516-1526-1-ND	2.84	24.85	198.80	1,500	1747.08/M	HCPL-0211-500E
	8-DIP	1,000V/µs	20	3,750	516-1649-5-ND	2.43	19.98	162.00	—	—	HCPL-2201-000E
	8-DIP	5,000V/µs	20	3,750	516-1537-5-ND	2.75	22.57	183.00	—	—	HCPL-2211-000E
	8-SOIC(W)	1,000V/µs	20	3,750	516-1614-5-ND	2.90	23.87	193.50	—	—	HCNW2201-000E
	8-DIP(W)	5,000V/µs	20	5,000	516-1615-5-ND	3.15	25.90	210.00	—	—	HCNW2211-000E
	8-SMD(W)	5,000V/µs	20	5,000	516-1616-5-ND	3.20	26.27	213.00	—	—	HCNW2211-300E
14	8-DIP	1,000V/µs	20	3,750	516-1650-5-ND	2.43	19.98	162.00	—	—	HCPL-2202-000E
	8-DIP	5,000V/µs	20	3,750	516-1651-5-ND	2.75	22.57	183.00	—	—	HCPL-2212-000E
15	8-DIP	1,000V/µs	20	3,750	516-1582-5-ND	6.35	52.17	423.00	—	—	HCPL-2231-000E
	8-SMD	1,000V/µs	20	3,750	516-1652-5-ND	6.39	52.54	426.00	—	—	HCPL-2231-300E
	8-DIP	5,000V/µs	20	3,750	516-1473-5-ND	8.21	67.53	547.50	—	—	HCPL-2232-000E
	8-SMD	5,000V/µs	20	3,750	516-1653-5-ND	8.26	67.90	550.50	—	—	HCPL-2232-300E
16	8-SOIC	100V/µs	5	3,750	516-1626-5-ND†	5.78	47.55	385.50	—	—	HCPL-0300-000E
	8-DIP	100V/µs	5	3,750	516-1538-5-ND†	4.50	37.00	300.00	—	—	HCPL-2300-000E
	8-SMD	100V/µs	5	3,750	516-1654-5-ND†	4.55	37.37	303.00	—	—	HCPL-2300-300E

Logic Gate Optocouplers - 10MBd

Fig.	OE	Package	Common Mode Rejection	Supply Volt.	Isolated Voltage	Digi-Key Part No.	Pricing			T&R Pricing 1,500*	Avago Part No.
							1	10	100		
17	Yes	8-SOIC	10,000 V/µs	5	3,750	516-1071-2-ND	—	—	—	936.00/M	HCPL-0600#500
	Yes	8-SOIC	10,000 V/µs	5	3,750	516-1075-2-ND	—	—	—	936.00/M	HCPL-0601#500
	Yes	8-DIP	10,000 V/µs	5	3,750	516-1076-5-ND	1.68	13.40	110.55	—	HCPL-2601
	Yes	8-SMD	10,000 V/µs	5	3,750	516-1077-5-ND	1.73	13.80	113.85	—	HCPL-2601#300
	Yes	8-SMD	15,000 V/µs	5	3,750	516-1079-5-ND	1.73	14.25	115.50	—	HCPL-2611#300

† 8MBd ‡ Dual Channel *For Tape and Reel part number, change 1-ND to 2-ND. *(**Note:** 8-SMD = PDip Package with Gullwing Leads; (W) = .4 inch row spacing)*

Fig. 11

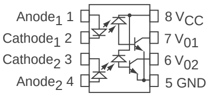

Fig. 12

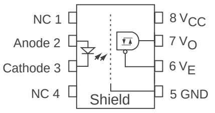

Fig. 13

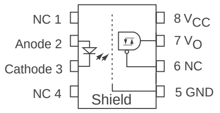

Fig. 14

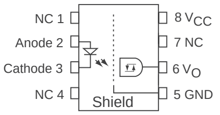

Fig. 15

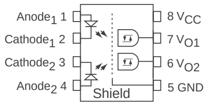

Fig. 16

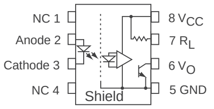

Fig. 17

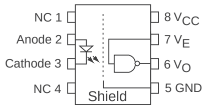

Fig. 18

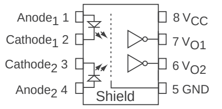

Fig. 19

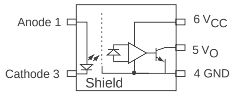

Fig. 20

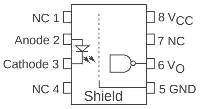

(Continued)

N

Logic Gate Optocouplers - 10MBd *(Cont.)*

Fig.	OE	Package	Common Mode Rejection	Sup-ply Volt.	Isolated Voltage	Digi-Key Part No.	Pricing			T&R Pricing 1,500*	Avago Part No.
							1	10	100		
17	Yes	8-SOIC	15,000 V/µs	5	3,750	516-1080-2-ND	—	—	—	1196.00/M	HCPL-0611#500
	Yes	8-SOIC	15,000 V/µs	5	3,750	516-1080-5-ND	2.03	16.65	135.00	—	HCPL-0611
	Yes	8-SOIC	5,000 V/µs	5	3,750	516-1085-5-ND	2.48	20.35	165.00	—	HCPL-061N
18	No	8-SOIC	10,000 V/µs	5	3,750	516-1088-5-ND	4.10	33.67	273.00	—	HCPL-0630
	No	8-DIP	10,000 V/µs	5	3,750	516-1089-5-ND	3.04	24.98	202.50	—	HCPL-2631
	No	8-SMD	10,000 V/µs	5	3,750	516-1090-5-ND	3.08	25.35	205.50	—	HCPL-2631#300
	No	8-SOIC	10,000 V/µs	5	3,750	516-1091-2-ND	—	—	—	2392.00/M	HCPL-0631#500
	No	8-SOIC	15,000 V/µs	5	3,750	516-1093-5-ND	6.75	55.50	450.00	—	HCPL-0661
	No	8-SOIC	5,000 V/µs	5	3,750	516-1095-2-ND	—	—	—	3081.00/M	HCPL-063A#500
	No	8-DIP	25,000 V/µs	5	5,000	516-1096-5-ND	5.04	41.44	336.00	—	HCPL-263N
20	No	8-DIP	5,000 V/µs	5	3,750	516-1098-5-ND	2.70	22.20	180.00	—	HCPL-760
	No	8-DIP	15,000 V/µs	5	3,750	516-1099-5-ND	2.90	23.87	193.50	—	HCPL-7611
RoHS Compliant											
17	Yes	8-DIP	10,000 V/µs	5	3,750	516-1521-5-ND	1.25	10.00	82.50	—	6N137-000E
	Yes	8-SMD	10,000 V/µs	5	3,750	516-1599-5-ND	1.30	10.40	85.80	—	6N137-300E
	Yes	8-SOIC	10,000 V/µs	5	3,750	516-1485-1-ND	1.80	14.40	118.80	936.00/M	HCPL-0600-500E
	Yes	8-DIP(W)	10,000 V/µs	5	5,000	516-1611-5-ND	2.35	18.80	155.10	—	HCNW137-000E
	Yes	8-SOIC	10,000 V/µs	5	3,750	516-1471-5-ND	1.75	14.00	115.50	—	HCPL-0601-000E
	Yes	8-DIP	10,000 V/µs	5	3,750	516-1540-5-ND	1.68	13.40	110.55	—	HCPL-2601-000E
	Yes	8-SMD	10,000 V/µs	5	3,750	516-1661-5-ND	1.73	13.80	113.85	—	HCPL-2601-300E
	Yes	8-DIP	15,000 V/µs	5	3,750	516-1663-5-ND	1.88	15.00	123.75	—	HCPL-2611-000E
	Yes	8-SOIC	15,000 V/µs	5	3,750	516-1634-5-ND	2.03	16.65	135.00	—	HCPL-0611-000E
	Yes	8-SOIC	15,000 V/µs	5	3,750	516-1486-1-ND	1.84	16.10	128.80	1196.00/M	HCPL-0611-500E
	Yes	8DIP(W)	5,000 V/µs	7	3,750	516-1617-5-ND	2.50	20.54	166.50	—	HCNW2601-000E
	Yes	8-DIP(W)	15,000 V/µs	5	5,000	516-1618-5-ND	2.70	22.20	180.00	—	HCNW2611-000E
	Yes	8-SMD(W)	15,000 V/µs	5	5,000	516-1619-5-ND	2.75	22.57	183.00	—	HCNW2611-300E
	Yes	8-SOIC	5,000 V/µs	5	3,750	516-1635-5-ND	2.32	19.06	154.50	—	HCPL-061A-000E
	Yes	8-SOIC	5,000 V/µs	5	3,750	516-1579-5-ND	2.48	20.35	165.00	—	HCPL-061N-000E
18	No	8-DIP	10,000 V/µs	5	3,750	516-1475-5-ND	2.81	23.13	187.50	—	HCPL-2630-000E
	No	8-SMD	10,000 V/µs	5	3,750	516-1665-5-ND	2.86	23.50	190.50	—	HCPL-2630-300E
	No	8-SOIC	10,000 V/µs	5	3,750	516-1487-1-ND	3.68	32.20	257.60	2392.00/M	HCPL-0630-500E
	No	8-DIP	10,000 V/µs	5	3,750	516-1541-5-ND	3.04	24.98	202.50	—	HCPL-2631-000E
	No	8-SMD	10,000 V/µs	5	3,750	516-1666-5-ND	3.08	25.35	205.50	—	HCPL-2631-300E
	No	8-SOIC	10,000 V/µs	5	3,750	516-1580-1-ND	5.52	46.00	368.00	2392.00/M	HCPL-0631-500E
	No	8-SOIC	10,000 V/µs	5	3,750	516-1472-5-ND	4.10	33.67	273.00	—	HCPL-0631-000E
	No	8-DIP	15,000 V/µs	5	3,750	516-1680-5-ND	5.04	41.44	336.00	—	HCPL-4661-000E
	No	8-SOIC	15,000 V/µs	5	3,750	516-1533-5-ND	6.75	55.50	450.00	—	HCPL-0661-000E
	No	8-DIP	5,000 V/µs	5	1,000	516-1667-5-ND	4.39	36.08	292.50	—	HCPL-263A-000E
	No	8-SOIC	5,000 V/µs	5	3,750	516-1531-5-ND	5.29	43.48	352.50	—	HCPL-063A-000E
	No	8-DIP	25,000 V/µs	5	5,000	516-1669-5-ND	5.04	41.44	336.00	—	HCPL-263N-000E
	No	8-SOIC	25,000 V/µs	5	3,750	516-1532-5-ND	6.98	57.35	465.00	—	HCPL-063N-000E
19	No	5-SOIC	10,000 V/µs	7	3,750	516-1692-5-ND	1.88	15.00	123.75	—	HCPL-M600-000E
	No	5-SOIC	15,000 V/µs	5	3,750	516-1554-5-ND	2.38	19.00	156.75	—	HCPL-M611-000E
20	No	8-DIP	5,000 V/µs	7	3,750	516-1687-5-ND	2.70	22.20	180.00	—	HCPL-7601-000E

Optocouplers - 15MBd

Fig.	OE	Package	Delay Time	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			Avago Part No.
							1	10	100	
17	Yes	8-DIP	90ns; 75ns	3.3	3,750	516-1101-5-ND	2.15	17.20	141.90	HCPL-260L
18	No	8-DIP	90ns; 75ns	3.3	3,750	516-1102-5-ND	3.60	29.60	240.00	HCPL-263L
RoHS Compliant										
17	Yes	8-SOIC	90ns; 75ns	3.3	15,000	516-1633-5-ND	2.00	16.00	132.00	HCPL-060L-000E
18	No	8-DIP	90ns; 75ns	3.3	15,000	516-1668-5-ND	3.60	29.60	240.00	HCPL-263L-000E
	No	8-SOIC	90ns; 75ns	3.3	3,750	516-1581-5-ND	4.59	37.74	306.00	HCPL-063L-000E
21	—	8-SOIC	52ns; 44ns	7	560	516-1602-5-ND	4.05	33.30	270.00	ACSL-6210-00RE
22	—	16SOIC	52ns; 44ns	7	560	516-1603-5-ND	7.20	59.20	480.00	ACSL-6400-00TE

Optocouplers - 20MBd

Fig.	OE	Package	Delay Time	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			Avago Part No.
							1	10	100	
23	Yes	8-DIP	60ns	5	3,750	516-1104-5-ND	5.99	49.21	399.00	HCPL-2400
24	No	8-SMD	60ns	5	3,750	516-1107-5-ND	12.02	98.79	801.00	HCPL-2430#300
RoHS Compliant										
23	Yes	8-DIP	60ns	5	3,750	516-1655-5-ND	5.99	49.21	399.00	HCPL-2400-000E
	Yes	8-SMD	60ns	5	3,750	516-1656-5-ND	6.03	49.58	402.00	HCPL-2400-300E
24	No	8-DIP	60ns	5	3,750	516-1539-5-ND	12.06	99.16	804.00	HCPL-2430-000E
	No	8-SMD	60ns	5	3,750	516-1657-5-ND	12.02	98.79	801.00	HCPL-2430-300E

High Speed CMOS Optocouplers

Fig.	Package	Transfer Rate (Mb/s)	Delay Time (ns)	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing			T&R Pricing 1,500*	Avago Part No.
							1	10	100		
25	8-SOIC	25	40	5	3,750	516-1113-5-ND	5.40	44.40	360.00	—	HCPL-0720
	8-SMD	12.5	40	5	3,750	516-1115-5-ND	4.32	35.52	288.00	—	HCPL-7710#300
	8-SOIC	12.5	40	5	3,750	516-1116-2-ND	—	—	—	2756.00/M	HCPL-0710#500

Fig. 21

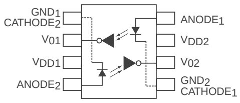

Fig. 22

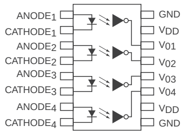

Fig. 23

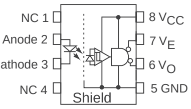

Fig. 24

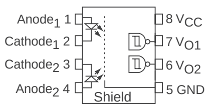

Fig. 25

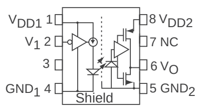

Fig. 26

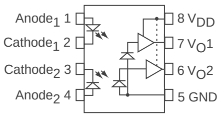

Fig. 27

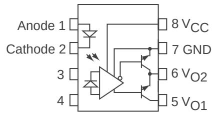

Fig. 28

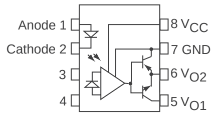

Fig. 29

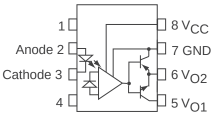

Fig. 30

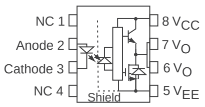

† 8MBd ‡ Dual Channel *For Tape and Reel part number, change 1-ND to 2-ND. *(**Note:** 8-SMD = PDip Package with Gullwing Leads; (W) = .4 inch row spacing)*

(Continued)

High Speed CMOS Optocouplers *(Cont.)*

Fig.	Package	Transfer Rate (Mb/s)	Delay Time (ns)	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	10	100	T&R Pricing 1,500*	Avago Part No.
26	8-SOIC	15	60	5	3,750	516-1117-5-ND‡	7.43	61.05	495.00	—	HCPL-0738
						RoHS Compliant					
25	8-SOIC	50	22	5	3,750	516-1640-5-ND	6.68	54.95	445.50	—	HCPL-0723-000E
	8-DIP	25	40	5	3,750	516-1550-5-ND	5.72	46.99	381.00	—	HCPL-7721-000E
	8-SOIC	25	40	5	3,750	516-1639-5-ND	6.08	49.95	405.00	—	HCPL-0721-000E
	8-DIP	25	40	5	3,750	516-1689-5-ND	4.95	40.70	330.00	—	HCPL-7720-000E
	8-SOIC	25	40	5	3,750	516-1534-5-ND	5.49	45.14	366.00	—	HCPL-0720-000E
	8-DIP	12.5	40	5	3,750	516-1480-5-ND	4.37	35.89	291.00	—	HCPL-7710-000E
	8-SMD	12.5	40	5	3,750	516-1688-5-ND	4.32	35.52	288.00	—	HCPL-7710-300E
	8-SOIC	12.5	40	5	3,750	516-1705-5-ND	4.82	39.59	321.00	—	HCPL-0710-000E
	8-SOIC	12.5	40	5	3,750	516-1489-1-ND	4.32	37.80	302.40	2808.00/M	HCPL-0710-500E
26	8-SOIC	15	60	5	3,750	516-1536-5-ND	7.52	61.79	501.00	—	HCPL-0738-000E

Integrated Driver Optocouplers

Fig.	Package	Input Current	Output Current	Supply Voltage	Isolated Voltage	Delay Time	Digi-Key Part No.	Pricing 1	10	100	Avago Part No.
27	8-DIP	8mA	0.6A	13	5,000	5.00µs	516-1118-5-ND	2.13	17.00	140.25	HCPL-3000
28	8-DIP	12mA	0.1A	24	5,000	2.00µs	516-1119-5-ND	2.48	20.35	165.00	HCPL-3100
30	8-DIP	7mA	2.0A	30	3,750	0.50µs	516-1123-5-ND	3.04	24.98	202.50	HCPL-J312
30	8-DIP	7mA	0.5A	30	3,750	0.50µs	516-1125-5-ND	2.43	19.98	162.00	HCPL-3150
32	16-SOIC	7mA	0.5A	30	3,750	0.50µs	516-1129-5-ND‡	5.36	44.03	357.00	HCPL-315J
34	16-SOIC	8mA	0.4A	30	3,750	0.70µs	516-1128-5-ND‡	2.70	22.20	180.00	HCPL-314J
							RoHS Compliant				
27	8-DIP	8mA	0.6A	13	5,000	5.00µs	516-1670-5-ND	2.13	17.00	140.25	HCPL-3000-000E
28	8-DIP	12mA	0.1A	35	5,000	2.00µs	516-1671-5-ND	2.48	20.35	165.00	HCPL-3100-000E
29	8-DIP	8mA	0.1A	35	5,000	0.50µs	516-1672-5-ND	2.70	22.20	180.00	HCPL-3101-000E
30	8-DIP	7mA	2.0A	30	3,750	0.50µs	516-1476-5-ND	2.45	19.60	161.70	HCPL-3120-000E
30	8-SMD	7mA	2.0A	30	3,750	0.50µs	516-1544-5-ND	2.25	18.50	150.00	HCPL-3120-300E
31	8-DIP(W)	7mA	2.0A	30	3,750	0.50µs	516-1470-5-ND	3.49	28.68	232.50	HCNW3120-000E
30	8-SMD	7mA	0.5A	30	3,750	0.50µs	516-1584-1-ND	2.48	20.35	165.00	HCPL-3150-500E
30	8-SMD	7mA	0.5A	30	3,750	0.50µs	516-1584-2-ND		1430.00/1,000		HCPL-3150-500E
30	8-DIP	10mA	2.0A	20	3,750	0.20µs	516-1674-5-ND	2.81	23.13	187.50	HCPL-3180-000E
30	8-SMD	10mA	2.0A	20	3,750	0.20µs	516-1675-5-ND	2.86	23.50	190.50	HCPL-3180-300E
33	8-SOIC	8mA	0.4A	30	3,750	0.70µs	516-1527-5-ND	1.88	15.00	123.75	HCPL-0314-000E
32	8-DIP	8mA	0.4A	30	3,750	0.70µs	516-1583-5-ND	1.80	14.40	118.80	HCPL-3140-000E
32	16-SOIC	7mA	0.5A	30	3,750	0.50µs	516-1673-5-ND	5.36	44.03	357.00	HCPL-315J-000E
34	16-SOIC	8mA	0.4A	30	3,750	0.70µs	516-1477-5-ND	2.70	22.20	180.00	HCPL-314J-000E
—	16-SOIC	1µA	2.0A	30	3,750	0.50µs	516-1478-5-ND	4.61	37.93	307.50	HCPL-316J-000E

AC/DC Logic Interface Optocouplers

Fig.	Package	Hysteresis (Typ.)	Delay Time	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	10	100	Avago Part No.
35	8-SMD	1.2mA	40µs	18	3,750	516-1132-5-ND	3.24	26.64	216.00	HCPL-3700#300
	8-SMD	0.6mA	40µs	18	3,750	516-1134-5-ND	5.04	41.44	336.00	HCPL-3760#300
						RoHS Compliant				
35	8-SOIC	1.2mA	40µs	18	3,750	516-1627-ND	3.22	26.46	214.50	HCPL-0370-000E
	8-DIP	1.2mA	40µs	18	3,750	516-1545-5-ND	3.20	26.27	213.00	HCPL-3700-000E
	8-SMD	1.2mA	40µs	18	3,750	516-1676-5-ND	3.24	26.64	216.00	HCPL-3700-300E
	8-DIP	0.6mA	40µs	18	3,750	516-1677-5-ND	5.00	41.07	333.00	HCPL-3760-000E

High Linearity Analog Optocouplers

Fig.	Package	Current Transfer Ratio (%)	Reverse Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	10	100	Avago Part No.
					RoHS Compliant				
36	8-DIP(W)	0.25 ~ 0.75	-15	5,000	516-1522-5-ND	2.99	24.61	199.50	HCNR200-000E
	8-DIP(W)	0.36 ~ 0.72	-15	5,000	516-1523-5-ND	3.98	32.75	265.50	HCNR201-000E
	8-SMD	0.25 ~ 0.75	-15	5,000	516-1608-5-ND	3.04	24.98	202.50	HCNR200-300E
	8-SMD	0.36 ~ 0.72	-15	5,000	516-1609-5-ND	4.03	33.12	268.50	HCNR201-300E

Miniature Analog Isolation Amplifiers

Fig.	Package	Gain Tol. ±	Delay Time	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	10	100	Avago Part No.
37	8-SMD	5%	9.90µs	6	3,750	516-1138-5-ND	3.87	31.82	258.00	HCPL-7520-300
						RoHS Compliant				
37	8-DIP	3%	9.90µs	6	3,750	516-1682-5-ND	4.16	34.23	277.50	HCPL-7510-000E
	8-SMD	3%	9.90µs	6	3,750	516-1683-5-ND	4.21	34.60	280.50	HCPL-7510-300E
	8-DIP	5%	9.90µs	6	3,750	516-1684-5-ND	3.83	31.45	255.00	HCPL-7520-000E
	8-DIP	3%	9.90µs	5	3,750	516-1481-5-ND	8.44	69.38	562.50	HCPL-7800-000E
	8-SMD	3%	9.90µs	5	3,750	516-1551-5-ND	8.48	69.75	565.50	HCPL-7800-300E
	8-DIP	1%	9.90µs	5	3,750	516-1552-5-ND	10.98	90.28	732.00	HCPL-7800A-000E
	8-SMD	1%	9.90µs	5	3,750	516-1553-5-ND	11.03	90.65	735.00	HCPL-7800A-300E
	8-DIP	5%	9.90µs	5	3,750	516-1482-5-ND	4.95	40.70	330.00	HCPL-7840-000E
	8-SMD	5%	9.90µs	5	3,750	516-1690-5-ND	5.00	41.07	333.00	HCPL-7840-300E
—	16-SOIC	5%	20.00µs	5	3,750	516-1691-5-ND	6.68	54.95	445.50	HCPL-788J-000E

Fig. 31

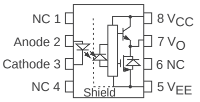

Fig. 32

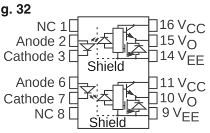

Fig. 33

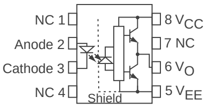

Fig. 34

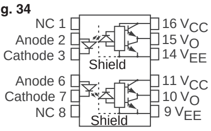

Fig. 35

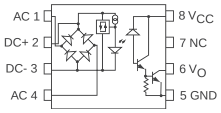

Fig. 36

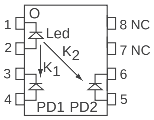

Fig. 37

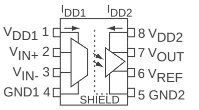

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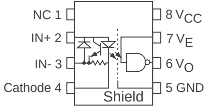

Fig. 39

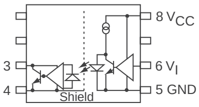

Fig. 40

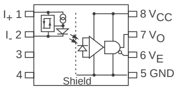

Fig. 41

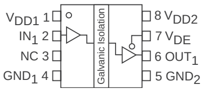

† 8MBd ‡ Dual Channel *For Tape and Reel part number, change 1-ND to 2-ND. (**Note:** *8-SMD = PDip Package with Gullwing Leads; (W) = .4 inch row spacing)*

(Continued)

Line Receivers

Fig.	Package	Delay Time	Output Current	Supply Voltage	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
38	8-DIP	100ns	50mA	5	3,750	516-1146-5-ND	5.72	46.99	381.00	HCPL-2602
						RoHS Compliant				
38	8-DIP	100ns	50mA	5	3,750	516-1662-5-ND	5.72	46.99	381.00	HCPL-2602-000E
38	8-DIP	100ns	50mA	5	3,750	516-1664-5-ND	9.00	74.00	600.00	HCPL-2612-000E

20mA Loop Transmitters/Receivers

Fig.	Package	Supply Voltage	Delay Time	Isolated Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
					RoHS Compliant				
39	8-DIP	4.5 ~ 20	1.60µs	3,750	516-1546-5-ND	5.83	47.92	388.50	HCPL-4100-000E
40	8-DIP	4.5 ~ 20	1.60µs	3,750	516-1547-5-ND	5.83	47.92	388.50	HCPL-4200-000E

Digital Isolators

Fig.	Package	No. of Circuits	Transfer Rate (Bits, Bytes)	Supply Voltage	Digi-Key Part No.	Pricing 1	Pricing 10	Pricing 100	Avago Part No.
41	8-SOIC	1	100Mb/s	3 ~ 5.5	516-1150-5-ND	4.05	33.30	270.00	HCPL-0900
42	8-SOIC	2	100Mb/s	3 ~ 5.5	516-1151-5-ND	5.85	48.10	390.00	HCPL-0930
43	16-SOIC(N)	4	100Mb/s	3 ~ 5.5	516-1152-5-ND	8.51	69.93	567.00	HCPL-090J
44	16-SOIC(N)	4	100Mb/s	3 ~ 5.5	516-1153-5-ND	8.51	69.93	567.00	HCPL-092J
					RoHS Compliant				
45	16-SOIC	—	—	4.5 ~ 5.5	516-1645-ND	4.07	33.49	271.50	HCPL-0872-000E
46	8-DIP	—	—	4.5 ~ 5.5	516-1685-ND	7.72	63.46	514.50	HCPL-7560-000E
46	8-SMD	—	—	4.5 ~ 5.5	516-1686-ND	7.72	63.46	514.50	HCPL-7560-300E

† 8MBd ‡ Dual Channel *For Tape and Reel part number, change 1-ND to 2-ND. (***Note:*** *8-SMD = PDip Package with Gullwing Leads; (W) = .4 inch row spacing)*

Fig. 42

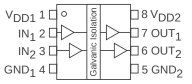

Fig. 43

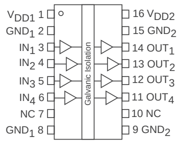

Fig. 44

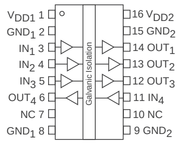

Fig. 45

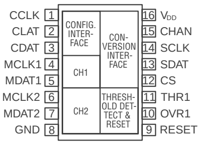

Fig. 46

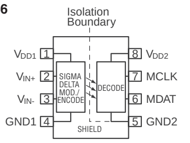

ANALOG DEVICES

*i*Coupler® Digital Isolators

*i*Coupler® isolation technology combines the dc isolation properties of microtransformers with semiconductor processing techniques to provide performance, power and integration benefits superior to those offered by traditional optocoupler technology. *i*Coupler® components operate at higher data rates, provide better timing accuracy and common-mode transient immunity and operate at lower power levels than optocouplers. They operate over wider temperature and supply voltage ranges than their optical competition. The *i*Coupler® technology rescues modern designs from the poorly controlled, temperature sensitive and time-dependent current transfer characteristics of standard optocouplers.

Fig.	Supply Voltage	Package Type	Max. Data Rate Mbps	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
				Single Channel			
1	3.3/5.0V	8-SOIC	25	ADUM1100ARZ-ND‡	4.10	3.28	2.55
			25	ADUM1100AR-RL7CT-ND	4.10	3.28	2.55
			25	ADUM1100AR-RL7TR-ND†	2321.00/1,000		
			100	ADUM1100BRZ-ND‡	4.68	3.75	2.92
				Dual Channel			
2	2.7/5.5V	8-SOIC	1	ADUM1200ARZ-ND‡	3.08	2.47	1.92
			10	ADUM1200BRZ-ND‡	4.48	3.59	2.79
			10	ADUM1200BR-RL7CT-ND	4.48	3.59	2.79
			10	ADUM1200BR-RL7TR-ND†	2537.00/1,000		
			25	ADUM1200CRZ-ND‡	5.52	4.42	3.73
3	2.7/5.5V	8-SOIC	1	ADUM1201ARZ-ND‡	3.08	2.47	1.92
			10	ADUM1201BRZ-ND‡	4.48	3.59	2.79
				Triple Channel			
4	3.0/5.0V	16-SOIC	1	ADUM1300ARW-ND	4.10	3.28	2.55
			1	ADUM1300ARWZ-ND‡	4.10	3.28	2.55
			10	ADUM1300BRW-ND	5.46	4.37	3.69
			10	ADUM1300BRWZ-ND‡	5.46	4.37	3.69
			90	ADUM1300CRW-ND	8.24	6.60	5.57
			90	ADUM1300CRWZ-ND‡	8.24	6.60	5.57
5	3.0/5.0V	16-SOIC	1	ADUM1301ARW-ND	4.10	3.28	2.55
			1	ADUM1301ARWZ-ND‡	4.10	3.28	2.55
			10	ADUM1301BRWZ-ND‡	5.46	4.37	3.69
			90	ADUM1301CRWZ-ND‡	8.24	6.60	5.57
				Quad Channel			
6	3.0/5.0V	16-SOIC	1	ADUM1400ARW-ND	4.86	3.89	3.29
			1	ADUM1400ARWZ-ND‡	4.86	3.89	3.29
			10	ADUM1400BRWZ-ND‡	7.28	5.83	4.92
			90	ADUM1400CRWZ-ND‡	9.76	7.81	6.59
7	3.0/5.0V	16-SOIC	1	ADUM1401ARW-ND	4.86	3.89	3.29
			1	ADUM1401ARWZ-ND‡	4.86	3.89	3.29
			10	ADUM1401BRWZ-ND‡	7.28	5.83	4.92
			90	ADUM1401CRW-ND	8.13	7.32	6.50
			90	ADUM1401CRWZ-ND‡	8.13	7.32	6.50
8	3.0/5.0V	16-SOIC	1	ADUM1402ARW-ND	4.86	3.89	3.29
			1	ADUM1402ARWZ-ND‡	4.86	3.89	3.29
			10	ADUM1402BRW-ND	7.28	5.83	4.92
			10	ADUM1402BRWZ-ND‡	7.28	5.83	4.92
			90	ADUM1402CRW-ND	8.13	7.32	6.50
			90	ADUM1402CRWZ-ND‡	8.13	7.32	6.50

† Tape and Reel Part Number ‡ ***RoHS Compliant***

Fig. 1

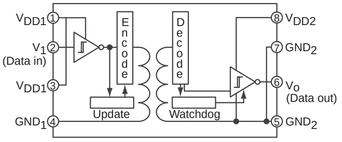

Fig. 2

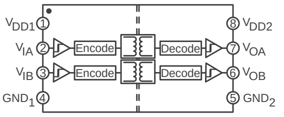

Fig. 3

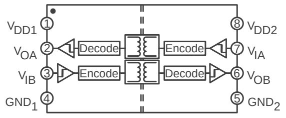

Fig. 4

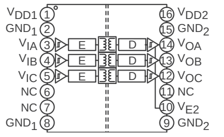

Fig. 5

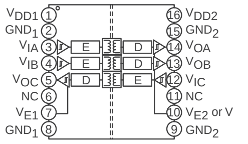

Fig. 6

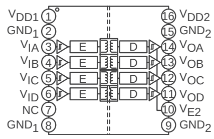

Fig. 7

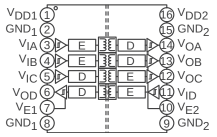

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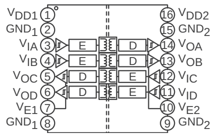

SHARP
MICROELECTRONICS

Photointerrupter

Fig. 1

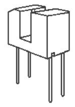

Fig. 2

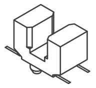

Fig. 3

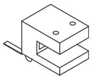

Fig. 4

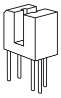

Fig. 5

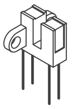

Fig. 6

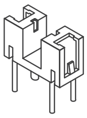

Fig. 7

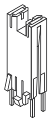

Fig.	Detector Vceo (V) Max.	Detector IC (mA) Max.	Rise/Fall (µs) Typ.	Sensing Distance (mm)	Term-inal Type	Digi-Key Part No.	Tube Price Each 1	Tube Price Each 10	Tube Price Each 100	Sharp Part No.
1	35	20	3/4	4.2	PCB	425-1058-5-ND	1.14	.95	.76	GP1S59
			35/35	1.6	PCB	425-1062-5-ND	1.23	1.03	.82	GP1S95
			38/48	2.0	PCB	425-1056-5-ND	.99	.83	.66	GP1S56T
	35	20	50/50	1.0	PCB	425-1041-5-ND	.56	.39	.28	GP1S096HCZ
			50/50	2.0	PCB	425-1039-5-ND*	.56	.39	.28	GP1S093HCZ
			50/50	2.0	PCB	425-1042-5-ND	.56	.39	.28	GP1S097HCZ
			50/50	3.0	PCB	425-1040-5-ND	.56	.39	.28	GP1S094HCZ
	35	20	50/50	3.0	PCB	425-1964-5-ND▲	.56	.39	.28	GP1S094HCZ0F
		40	80/70	5.0	PCB	425-1035-5-ND	1.02	.85	.68	GP1L53V
		40	130/100	10	PCB	425-1036-5-ND	1.75	1.40	1.16	GP1L57
2	35	20	50/50	2.0	SMD	425-1038-1-ND‡	.54	.45	.36	GP1S092HCPI
						425-1038-2-ND#	504.00/2,000			
3	35	40	80/70	3.0	PCB	425-1034-5-ND	1.14	.95	.76	GP1L52V
4	35	20	50/50	1.5	PCB	425-1046-5-ND	1.33	1.06	.88	GP1S39
5	35	20	3/4	3.0	PCB	425-1048-5-ND	1.02	.85	.68	GP1S51V
						425-1970-5-ND▲	1.05	.88	.70	GP1S51VJ000F
6	35	20	3/4	3.0	PCB	425-1053-5-ND	.99	.83	.66	GP1S561
7	35	20	3/4	3.0	PCB	425-1055-5-ND	.81	.68	.54	GP1S563

* Low profile ‡ Cut Tape # Tape and Reel ▲ ***RoHS Compliant***

Reflective Photointerrupter

Fig. 1

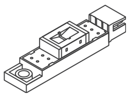

Fig. 2

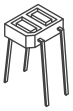

Fig. 3

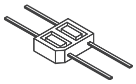

Fig. 4

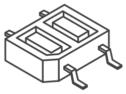

Fig. 5

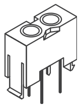

Fig. 6

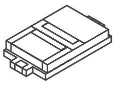

Fig. 7

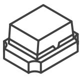

Fig.	Detector Vceo (V) Max.	Detector IC (mA) Max.	Rise/Fall (µs) Typ.	Sensing Distance (mm)	Term-inal Type	Digi-Key Part No.	Tube Price Each 1	Tube Price Each 10	Tube Price Each 100	Sharp Part No.
1	7 VCC	30	1000	5 ~ 15	PCB	425-1086-5-ND	4.66	3.83	3.11	GP2A200LCS
2	35	20	20/20	.6 ~ .8	PCB	425-1093-5-ND	.84	.70	.56	GP2S24
		20	50/50	1.5 ~ 6.5	PCB	425-1096-5-ND	1.60	1.28	1.06	GP2S40
3	35	50	80/70	.6 ~ .8	SMD	425-1092-5-ND*	1.11	.93	.74	GP2L26
4	35	20	20/20	.6 ~ .8	SMD	425-1094-1-ND ‡	1.11	.93	.74	GP2S27T
						425-1094-2-ND#	481.00/1,000			
5	35	20	20/30	6	PCB	425-1095-5-ND	1.28	1.02	.85	GP2S28
6	35	20	20/20	1	SMD	425-1097-1-ND ‡	.51	.43	.34	GP2S60
						425-1097-2-ND#	476.00/2,000			
7	35	20	20/20	1.2 ~ 5.5	SMD	425-1913-1-ND‡	1.17	.98	.78	GP2S700HCP
						425-1913-2-ND#	507.00/1,000			

* Darlington ‡ Cut Tape # Tape and Reel

OPIC™ Photointerrupter

Fig. 1

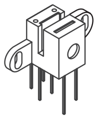

Fig. 2

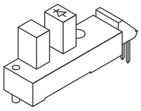

See below for JST Mating Connector

Fig. 3

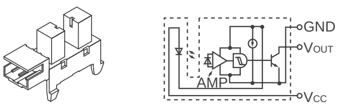

Fig. 4

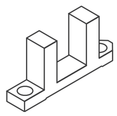

Fig. 5

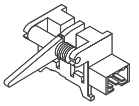

Fig. 6

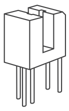

Fig. 7

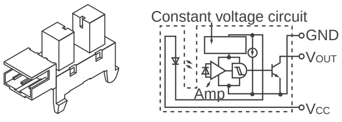

Fig. 8

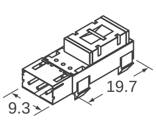

Dim. in mm

Fig.	Detector VCC (V) Typ.	Detector Icc (mA) Max.	Sensing Distance (mm)	Terminal Type	Digi-Key Part No.	Tube Price Each 1	Tube Price Each 10	Tube Price Each 100	Sharp Part No.
1	5	20	3.4	PCB	425-1064-ND†	6.37	5.24	4.25	GP1A35RV
2	5	30	5.0	Connector	425-1071-5-ND	3.71	3.06	2.48	GP1A23LC
3	5	16.5	5.0	Connector	425-1771-5-ND§	1.17	.98	.78	GP1A073LCS
4	5	50	3.0	PCB	425-1073-5-ND	1.28	1.02	.85	GP1A50HR
5	5	20	—	Connector	425-1072-5-ND*	2.48	2.04	1.65	GP1A44E1
6	5	2.0	1.2	PCB	425-1085-5-ND◊	1.02	.85	.68	GP1A91LR
		20	5.0	PCB	425-1079-5-ND	1.55	1.24	1.03	GP1A58HR
		50	3.0	PCB	425-1075-5-ND	1.50	1.25	1.00	GP1A52HR
		50	3.0	PCB	425-1076-5-ND#	1.50	1.25	1.00	GP1A52LR
7	5	16.5	5.0	Connector	425-1081-5-ND	1.35	1.08	.90	GP1A73A
8	5	20	3 ~ 7	Connector	425-1912-ND†	3.69	3.04	2.46	GP2A231LRSA

† Tray (not tube) § Inverted * With actuator ◊Internal 15K resistor # Inverted type of the HR

JST Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	Pricing 100	Pricing 500	T & R Pricing	JST Part No.
3-Pos., 2.5mm, Disconnectable Crimp Style NH Connector	455-1120-ND	.63	5.24	20.97	—	H3P-SHF-AA
22-28AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1121-1-ND*	—	5.48	24.19	130.00/5,000	SHF-001T-0.8BS
Crimp Tool w/Die for 22-28AWG Contacts	455-1122-ND	367.01/1			—	WC-122

* For Tape and Reel part number, change 1-ND to 2-ND.

SHARP
MICROELECTRONICS

Tilt Sensor

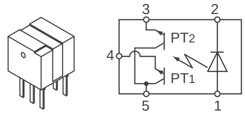

Features: • Subminiature • 2-phase output type • Able to detect the tilt direction of both side (±90°) by the position of rolling ball • High reliability due to non-contact structure

Applications: • Digital cameras • Camcorders

Detector Vceo (V) Max.	Detector Ic (mA) Max.	Rise/Fall (µs) Typ.	Terminal Type	Digi-Key Part No.	Tube Price Each 1	Tube Price Each 10	Tube Price Each 100	Sharp Part No.
35	20	50/50	PCB	425-1045-5-ND	1.95	1.56	1.29	GP1S36

SHARP MICROELECTRONICS

IR Emitters, Photo Transistors and Diodes

Fig. 1

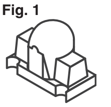

Fig. 2

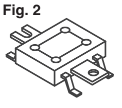

Fig. 3

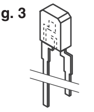

Fig. 4

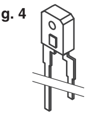

Fig. 5

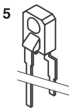

Fig. 6

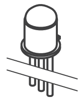

Fig. 7

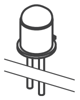

Fig. 8

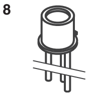

Fig. 9

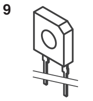

IR Emitters

Fig.	Forward Volt. (V) Typ.	Forward Current (mA) Max.	Optical Power Output (mW) Max.	Beam Angle (2x Theta)	Peak Wave-length (nm) Typ.	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	1.2	50	3.0	20	940	425-1022-1-ND‡	.36	.30	.24	GL100MN0MP
						425-1022-2-ND#	336.00/2,000			
	1.2	50	6.0	20	940	425-1023-1-ND‡	.54	.45	.36	GL100MN1MP
						425-1023-2-ND#	504.00/2,000			
3	1.2	50	2.0	180	950	425-1024-5-ND†	.56	.39	.28	GL4100
4	1.2	50	3.0	60	950	425-1026-5-ND*	.48	.33	.24	GL4800

‡ Cut Tape # Tape and Reel † Pale red transparent resin * Pink transparent resin

Photo Transistors

Fig.	Vceo Max. (V)	Ic Max. (mA)	Peak Sensitivity Wavelength (nm) Typ.	Rise/Fall Typ. (µs)	Beam Angle (2x Theta)	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	35	20	900	5.0/6.0	30	425-1005-1-ND‡	.36	.30	.24	PT100MC0MP
						425-1005-2-ND#	336.00/2,000			
	35	20	910	5.0/6.0	30	425-1006-1-ND‡◊	.36	.30	.24	PT100MF0MP
						425-1006-2-ND#	336.00/2,000			
	35	20	910	5.0/6.0	30	425-1007-1-ND‡◊	.36	.30	.24	PT100MF0MP1
						425-1007-2-ND#	252.00/1,500			
4	35	20	800	3.0/3.5	70	425-1009-5-ND	.48	.33	.24	PT4800
		20	860	3.0/3.5	70	425-1010-5-ND◊	.56	.39	.28	PT4800F
		20	860	3.0/3.5	70	425-2378-5-ND◊▲	.56	.39	.28	PT4800FE000F
		50	800	80/70	70	425-1014-5-ND*§	.60	.42	.30	PT4810
		50	860	80/70	70	425-1015-5-ND*◊	.60	.42	.30	PT4810F
5	35	20	800	3.0/3.5	26	425-1008-5-ND	.48	.33	.24	PT480
		20	860	3.0/3.5	26	425-1012-5-ND◊	.52	.36	.26	PT480F
		20	860	3.0/3.5	26	425-2380-5-ND◊▲	.52	.36	.26	PT480FE0000F
		50	800	80/70	26	425-1013-5-ND§	.52	.36	.26	PT481
		50	860	80/70	26	425-1016-5-ND◊	.60	.42	.30	PT481F
6	35	20	800	2/3	12	425-1019-5-ND	2.43	2.00	1.62	PT510
		100	800	350/300	12	425-1020-5-ND	8.57	7.05	5.72	PT550
7	45	10	800	10/10	12	425-1017-5-ND	2.38	1.90	1.57	PT501
		80	800	10/10	12	425-1018-5-ND	2.13	1.70	1.41	PT501A
8	35	100	800	350/300	100	425-1021-5-ND◊	7.43	6.11	4.95	PT550F

‡ Cut Tape # Tape and Reel § Transparent blue resin ◊ Visible Light cut-off resin, black
* Darlington ▲ ***RoHS Compliant***

Photo Diodes

Fig.	Vr Max. (V)	Short Circuit Current Is (µA) Typ.	Dark Current Id Max. (nA)	Peak Sensitivity Wavelength (nm) Typ.	Rise/ Fall Typ. (ns)	Beam Angle (2x Theta)	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	20	.9	10	820	10	40	425-1027-1-ND‡	.36	.30	.24	PD100MC0MP
							425-1027-2-ND#	336.00/2,000			
	20	.6	10	850	10	40	425-1028-1-ND‡◊	.36	.30	.24	PD100MF0MP
							425-1028-2-ND#◊	336.00/2,000			
2	30	9.2	2.0	940	5	—	425-1030-5-ND	1.11	.93	.74	PD3122F
3	—	.45	1.0	820	—	—	425-1029-5-ND	1.14	.95	.76	PD101SC0SS
9	32	5	30	960	—	115	425-1033-5-ND◊	1.05	.88	.70	PD481PI

‡ Cut Tape # Tape and Reel ◊ Visible Light cut-off resin, black

OPIC™ Light Detectors

Dim in mm

Fig. 1

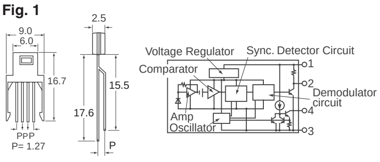

Fig. 2

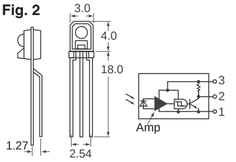

Fig.	Vcc (V)	Output Current Max. (mA)	Rise/ Fall Typ. (µs)	Beam Angle (2x Theta)	Peak Wave-length (nm) Typ.	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
1	4.5 ~ 16	50	400/400	110	940	425-1178-5-ND*	2.72	2.24	1.82	IS471F
						425-2069-5-ND*▲	2.72	2.24	1.82	IS471FE
2	1.4 ~ 7.0	2	0.1/.06	30	900	425-1181-5-ND	.92	.64	.46	IS489

* Visible light cut-off resin, black ▲ ***RoHS Compliant***

Blue Sensitive Photodiodes

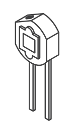

Features:
- Lead Free/RoHS Compliant • Spectral sensitivity characteristics akin to that of human eye
- Compact flat package • Low dark current • Infrared light cut-off type

Applications:
- AE (automatic exposure) system and ES (electronic shutter) system for cameras • Stroboscopes • Precise optical instruments

Short Cir. Current Is Typ. (µA)	Dark Current Id Typ. (A)	Peak Sensitivity Wavelength Typ. (nm)	Reverse Voltage Vr (V) Max.	Active Area (mm sq.)	Digi-Key Part No.	Tube Price Each 1	10	100	Sharp Part No.
0.16	$3x10^{-12}$	560	10	1.55	425-2429-5-ND	1.95	1.56	1.29	BS120E0F

Compact Dust Sensor

Features: • Compact, thin type • Low dissipation current (Icc: Maximum 20mA) • Single-shot detection of house dust **Applications:** • Air conditioners • Air cleaner

Vcc (V)	Dimensions (mm)	Digi-Key Part No.	Price Each 1	25	50	Sharp Part No.
12	58 x 38 x 20.7	425-1169-ND	15.75	12.60	11.03	GP2Y1001AU
5	46 x 30 x 17.6	425-1917-ND	11.38	9.10	7.97	GP2Y1010AU

JST Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	100	500	Tape & Reel* Pricing	JST Part No.
6-Pos., 1.5mm, Disconnectable Crimp Style ZH Connector	455-1129-ND	.76	6.33	25.31	—	ZHR-6
26-28AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1130-1-ND	—	2.19	9.66	130.00/13,000	SZH-002T-P0.5
Crimp Tool with Die for 26-28AWG Contacts	455-1131-ND	367.01/1			—	WC-491

* For Tape and Reel part number, change 1-ND to 2-ND.

TOSHIBA Illumination Sensors

Dim in mm

SMD Photo-ICs for illuminance sensor which consist of one chip integrated photo-diode and amplifier circuit **Features:** • Small SMD package • Suitable for lead-free soldering and reflow soldering • Low supply voltage: VCC = 2.7V to 5.5V

Fig. 1

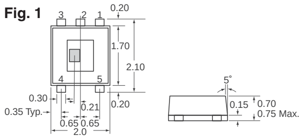

Fig. 2

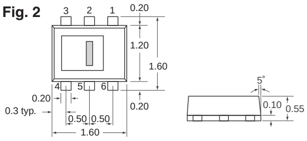

Fig.	Sensitivity	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Tape & Reel* Pricing 3,000	Toshiba Part No.
1	52µA	TPS851CT-ND	1.08	9.00	72.00	468.00/M	TPS851
2	40µA	TPS852CT-ND	1.08	9.00	72.00	468.00/M	TPS852

* For Tape and Reel part number, change CT-ND to TR-ND.

SHARP MICROELECTRONICS

Distance Measuring Sensors

Fig. 1

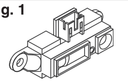

Fig. 2

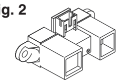

Fig. 3

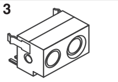

Fig. 4 ***NEW!***

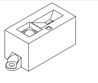

Fig.	Vcc (V)	Distance Measuring Range (cm) Typ.	Diff. of Output Voltage (V) Typ.	Output Current ICC (mA) Typ.	Output Type	Digi-Key Part No.	Tray Price Each 1	25	50	Sharp Part No.
1	5	4 ~ 30	2.25	33	Analog	425-1162-ND	12.18	9.74	8.53	GP2D120
		15	—	33	Digital	425-1164-5-ND†	12.18	9.74	8.53	GP2D150A
		24	—	33		425-1163-ND	12.18	9.74	8.53	GP2D15
		24	—	30		425-1168-ND	10.00	8.00	7.00	GP2Y0D21YK
2	5	80	—	33	Digital	425-1167-ND	15.63	12.50	10.94	GP2Y0D02YK
3	5	40	—	28	Digital	425-1810-ND	8.03	6.42	5.33	GP2Y0D340K
4	5	4 ~ 30	1.6	30	Analog	425-2498-ND ***NEW!***	52.50	42.00	36.75	GP2Y3A001K0F
		20 ~ 150	1.6			425-2499-ND ***NEW!***	52.50	42.00	36.75	GP2Y3A002K0F
		40 ~ 300	1.2			425-2500-ND ***NEW!***	52.50	42.00	36.75	GP2Y3A003K0F

† Tube (not a tray)

See below for JST Mating Connector

JST Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.	Pricing 10	100	500	T & R* Pricing	JST Part No.
3-Pos., 2.0mm, Disconnectable Crimp Style PH Connector	455-1126-ND	.42	3.53	14.11	—	PHR-3
24-30 AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1127-1-ND	—	3.43	15.11	128.00/8,000	SPH-002T-P0.5S
Crimp Tool w/Die for 24-30AWG Contacts	455-1128-ND	367.01/1			—	WC-240

* For Tape and Reel part number, change 1-ND to 2-ND.

FAIRCHILD SEMICONDUCTOR®

Semiconductor Interrupter Modules

Fig.	Circuit	Output Type	Ic (on) (mA) min.	Test Conditions If/Vce	Slot Width (mm)	Lead Spacing (mm)	Digi-Key Part No.	Price Each 1	10	100	500
1	B	Transistor	1.0	20mA @ 5V	3.18	5.59	QVA11134-ND	1.11	.93	.74	.52
	B	Transistor	1.0	20mA @ 5V	3.15	7.24	H22A1-ND	.93	.78	.62	.44
	B	Transistor	2.0	20mA @ 5V	3.15	7.24	H22A2-ND	.93	.78	.62	.44
	B	Transistor	4.0	20mA @ 5V	3.15	7.24	H22A3-ND	.93	.78	.62	.44
	A	Darlington	2.5	5mA @ 1.5V	3.15	7.24	H22B1-ND	.98	.82	.65	.46
2	B	Transistor	1.0	20mA @ 5V	3.18	5.59	QVB11134-ND	1.11	.93	.74	.52
3	C	Transistor	0.5	20mA @ 5V	3.81	7.62	QVE11233-ND	1.14	.95	.76	.54
4	B	Transistor	1.0	20mA @ 5V	3.15	7.24	H21A1-ND	.96	.80	.64	.45
	B	Transistor	2.0	20mA @ 5V	3.15	7.24	H21A2-ND	.96	.80	.64	.45
	B	Transistor	4.0	20mA @ 5V	3.15	7.24	H21A3-ND	1.08	.90	.72	.51
	A	Darlington	2.5	5mA @ 1.5V	3.15	7.24	H21B1-ND	1.08	.90	.72	.51

Optologic Interrupter Modules

Fig.	Circuit	Output Type	VCC	Max Output Current (mA)	Rise/ Fall (ns)	Digi-Key Part No.	Price Each 1	10	100	500
5	K	T.P. BUFF	4.5-16.0	50	70	H21LTB-ND	1.17	.98	.78	.55
	L	T.P. INV	4.5-16.0	50	70	H21LTI-ND	1.17	.98	.78	.55
	M	O.C. BUFF	4.5-16.0	50	70	H21LOB-ND	1.17	.98	.78	.55
	N	O.C. INV	4.5-16.0	50	70	H21LOI-ND	1.17	.98	.78	.55
6	K	T.P. BUFF	4.5-16.0	50	70	H22LTB-ND	1.14	.95	.76	.54
	L	T.P. INV	4.5-16.0	50	70	H22LTI-ND	1.17	.98	.78	.55
	M	O.C. BUFF	4.5-16.0	50	70	H22LOB-ND	1.17	.98	.78	.55
	N	O.C. INV	4.5-16.0	50	70	H22LOI-ND	1.17	.98	.78	.55

Semiconductor Infrared Photo Detectors

Fig.	Circuit	BV_{CEO} (V)	Min. Ic @ 5Vce (mA)	Rise/Fall (μ sec)	Reception Angle +/-	Peak Wavelength Sensitivity	Digi-Key Part No.	Price Each 1	10	100	500
7	F	45	6	8/7	—	880	BPW36-ND	1.72	1.38	1.04	.93
	F	45	6	8/7	—	880	L14G1-ND	1.72	1.38	1.04	.93
	F	45	3	8/7	—	880	L14G2-ND	1.68	1.35	1.01	.91
	F	45	12	8/7	—	880	L14G3-ND	1.76	1.41	1.06	.95
	F	30	4	10/12	12	880	L14P1-ND	1.80	1.44	1.08	.97
	F	30	8	14/16	12	880	L14P2-ND	1.87	1.50	1.13	1.01
	E	25	3	300/250	8	880	BPW38-ND	1.83	1.47	1.10	.99
	E	25	3	300/250	8	880	L14F1-ND	1.77	1.42	1.07	.96
	E	25	1	300/250	8	880	L14F2-ND	1.68	1.35	1.01	.91
8	F	50	1	5/5	60	880	L14C1-ND	1.80	1.44	1.08	.97
	F	50	0.5	5/5	60	880	L14C2-ND	1.72	1.38	1.04	.93
	F	30	3	10/12	30	880	L14N1-ND	1.76	1.41	1.06	.95
	F	30	6	14/16	30	880	L14N2-ND	1.87	1.50	1.13	1.01
9	D	30	1	5/5	8	880	QSC112-ND	.50	.41	.28	.17
	D	30	2	5/5	8	880	QSC113-ND	.50	.41	.28	.17
	D	30	4	5/5	8	880	QSC114-ND	.45	.36	.27	.15
10	D	30	1.6	7/7	12	880	QSD122-ND	.52	.42	.31	.18
	D	30	3.2	7/7	12	880	QSD123-ND	.58	.47	.35	.20
	D	30	7.5	7/7	12	880	QSD124-ND	.51	.39	.29	.18
11	D	30	1.2	8/8	12	880	QSD722-ND	.52	.42	.31	.18
	D	30	3	8/8	12	880	QSD723-ND	.58	.47	.35	.20
12	D	30	0.64	8/8	8	880	QSE113-ND	.49	.39	.30	.17
	D	30	1.28	8/8	8	880	QSE114-ND	.53	.42	.32	.18

Logic Detectors

Fig.	Circuit	Output Type	VCC	Isink (mA)	Isource (mA)	Rise/Fall (ns)	Reception Angle +/-	Peak Wavelength Sensitivity	Digi-Key Part No.	Price Each 1	10	100	500
13	G	T.P. BUFF	4.5 - 16	50	10	70	25	935	QSE156-ND	.90	.68	.51	.32
	I	T.P. INV.	4.5 - 16	50	10	70	25	935	QSE157-ND	.90	.68	.51	.32
	H	O.C. BUFF	4.5 - 16	50	—	100	25	935	QSE158-ND	.90	.68	.51	.32
	J	O.C. INV.	4.5 - 16	50	—	100	25	935	QSE159-ND	.90	.68	.51	.32

Fig. 1

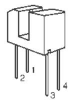

Fig. 2

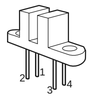

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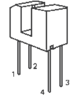

Fig. 4

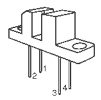

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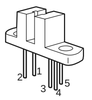

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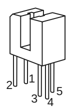

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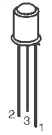

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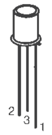

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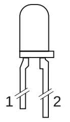

Fig. 10

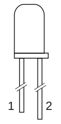

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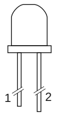

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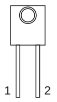

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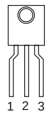

Circuits

A

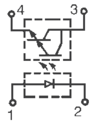

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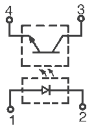

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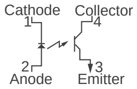

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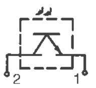

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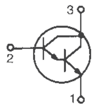

TO-18 3 Lead

F

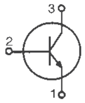

TO-18, Flat Window, 3 Lead

G

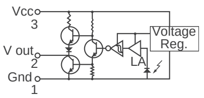

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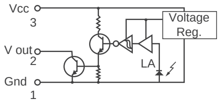

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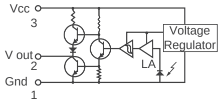

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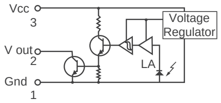

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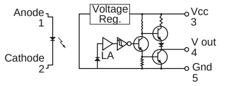

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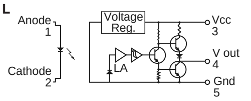

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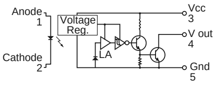

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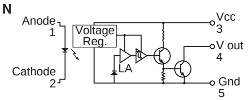

LITEON

Infrared Emitting Diodes, Photodetectors and Photodiodes

Features of Infrared Emitting Diodes: • Selected to specific on-line intensity and radiant intensity ranges • Low cost plastic end looking package • Made with gallium aluminum arsenide window layer on gallium arsenide infrared emitting diodes

Features of Photodetectors and Photodiodes: • Lensed for high sensitivity • Low cost plastic package

Fig. 1

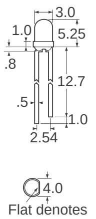

Flat denotes Cathode

Fig. 2

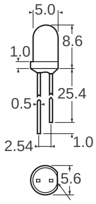

Flat denotes Cathode (Collector for 160-1031-ND)

Fig. 3

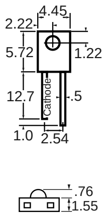

Fig. 4

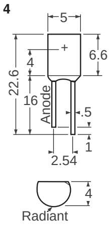

Radiant sensitive area

Infrared Emitting Diodes

Fig.	Vf	Vr	I (ma)	Ipk amps	Viewing Angle	Digi-Key Part No.	Pricing 1	10	100
1	1.2	5	50	3	20°	160-1028-ND	.24	2.00	16.00
2	1.2	5	50	3	20°	160-1029-ND	.24	2.00	16.00
	1.2	5	50	3	40°	160-1061-ND	.24	2.00	16.00
	1.3	7.2	150	3	35°	160-1062-ND	.30	2.50	20.00
3	1.2	5	50	3	40°	160-1063-ND	.24	2.00	16.00

Matching Photodetectors

Fig.	Vce	Vec	On-State I (ma)	Rise/Fall (us)	Digi-Key Part No.	Pricing 1	10	100
1	30	5	2	5	160-1030-ND	.15	1.25	10.00
2	30	5	2	5	160-1031-ND	.23	1.88	15.00
3	30	5	1	5	160-1065-ND	.23	1.88	15.00

Photodiodes

Fig.	Description	Digi-Key Part No.	Pricing 1	10	100
4	Black Plastic Diode	160-1032-ND	.47	3.88	31.00

Absolute Maximum Ratings at $T_A = 25°C$, $\lambda = 940nm$

AVAGO
TECHNOLOGIES

Dim. in mm

Fig. 1
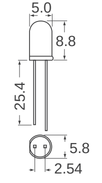

Fig. 2
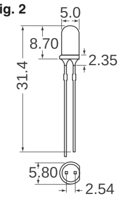

Fig. 3
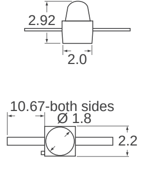

Fig. 4
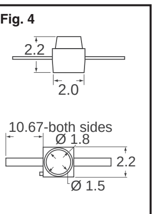

Fig. 5
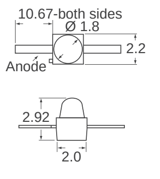

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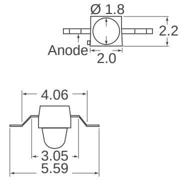

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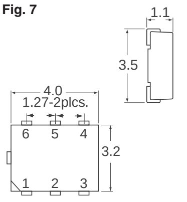

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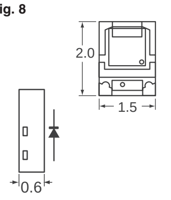

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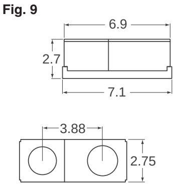

Fig. 10
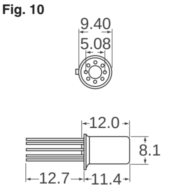

IR Emitters

Fig.	Forward Voltage (V@mA)	If (mA)	Radiant Intensity m/W/sr	Beam Angle	Peak Length (nm)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel Pricing 1,500	Avago Part No.
1	1.15@20	100	4@20mA	50°	940	516-1260-ND	1.14	.95	.76	—	HEMT-3301
2	1.50@50	100	76@100mA	30°	875	516-1261-ND	.75	.63	.50	—	HSDL-4220
	1.50@50	100	150@100mA	17°	875	516-1262-ND	.75	.63	.50	—	HSDL-4230
	1.40@20	100	36@20mA	52°	870	516-1706-ND	.33	.25	.21	—	HSDL-4261
3	1.50@50	100	32@100mA	24°	875	516-1263-ND	.66	.55	.44	—	HSDL-4420
	1.50@50	100	32@100mA	24°	875	516-1264-1-ND*	.69	.58	.46	322.00/M	HSDL-4420#011
	1.50@50	100	32@100mA	24°	875	516-1265-1-ND*	.69	.58	.46	322.00/M	HSDL-4420#031

IR Detectors

Fig.	Output Cur. (μA)	Dark Cur. (nA)	Peak Sensitivity (nm)	Forward Volt.@1mA (Typ.)	Viewing Angle	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel Pricing 1,500	Avago Part No.
4	1.6	1	875	0.8V	110°	516-1266-ND	.68	.47	.34	—	HSDL-5400
5	6.0	1	875	0.8V	28°	516-1267-ND	.68	.47	.34	—	HSDL-5420
6	6.0	1	875	0.8V	28°	516-1268-1-ND*	.54	.45	.36	252.00/M	HSDL-5420#031

Ambient Light Photo Sensor

Fig.	Supply Volt.	Supply Cur.	Peak Sensitivity	Viewing Angle	Digi-Key Part No.	Price Each 1	10	100	Tape and Reel Size	Pricing	Avago Part No.
7	3.3V	33μA	550nm	120°	516-1269-1-ND	1.75	1.40	1.05	1,500	892.50/M	HSDL-9000
8	3.0V	—	550nm	—	516-1703-1-ND	.73	.58	.44	2,500	370.00/M	HSDL-9001

Surface Mount Proximity Sensor

Fig.	Forward Volt.	If (Max.)	Supply Volt. (Max.)	Photo Cur. (Typ.)	Dark Cur. (Max.)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel Pricing 2,500	Avago Part No.
9	1.5V	50mA	1.3V	.1mA	10nA	516-1555-1-ND*	1.83	1.46	1.10	930.76/M	HSDL-9100-021

Photointerrupter

Fig.	Forward Volt.	If (Typ.)	Supply Volt. (Max.)	Photo Cur. (Typ.)	Dark Cur. (Typ.)	Digi-Key Part No.	Price Each 1	10	25	50	Avago Part No.
10	1.72V	50mA	7V	125nA	50pA	516-1270-ND	38.75	31.00	—	23.25	HEDS-1500
	1.6V	50mA	20V	250nA	5pA	516-1604-5-ND†	36.88	—	29.50	25.82	HBCS-1100

* For Tape and Reel part number, change 1-ND to 2-ND. † Tube

OMRON

Amplified Mini Optical Sensors with Pin Point Beam

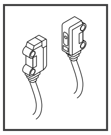

Miniature optical sensor with “Pin-point” beam for sensing minute objects (1-2mm dia.). Use both indoors or outdoors for detecting where small body size is desired. Perfect for security, conveyor detection as well as emergency stop detection and limit control and more. Sensor not affected by ambient light. Comes standard with 2 meter molded cords attached. Terminal Type: 2m Cable.

9297B-ND Omron Industrial Opto Sensor, Data Book **$2.00**

Sensing Method	Mounting Type/Features	Dist. (Max.) Inches	(M/mm)	Digi-Key Part No.	Price Each 1	25	100	Omron Part No.
Through-Beam	Side/Light-On	39.37	(1M)	OR591-ND	108.08	97.28	91.87	E3T-ST11
	Side/Dark-On	39.37	(1M)	OR592-ND	108.08	97.28	91.87	E3T-ST12
Reflect., Retro	Side/Light-On	7.87	(200mm)	OR593-ND	101.36	91.23	86.16	E3T-SR11
	Side/Dark-On	7.87	(200mm)	OR594-ND	101.36	91.23	86.16	E3T-SR12
Convergent Beam	Light-On	.59	(15mm)	Z1104-ND	67.13	62.16	53.88	E3T-SL11
	Dark-On	.59	(15mm)	Z1105-ND	67.13	62.16	53.88	E3T-SL12
Optional Flat Reflector for distances of 10-100 mm				Z2429-ND	6.25	5.79	5.02	E39-R37

Amplified Optical Sensors

- One meter sensing distance
- Supply voltage of 5~24 VDC for easy interface with TTL circuits, relays and programmable controllers
- IP60 sealability rating. Comes with two — 2m cables with connectors

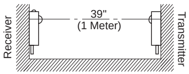

Sensor Side View

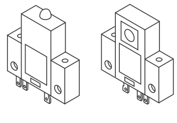

1 Meter (39 Inches) Sensing Distance!

Description	Digi-Key Part No.	Price Each	Omron Part No.
Through-Beam Receiver/Transmitter Pair - Dark on........	OR544-ND	102.60	EE-SPW311
Through-Beam Receiver/Transmitter Pair - Light on	OR545-ND	102.60	EE-SPW411

Long Distance Amplified Optical Sensors

These general purpose optical sensors are small DC Sensors (10-30VDC Input) available in both a transmitter-receiver pair or a reflected beam type with sensing distances of 23 feet (7 meters). Ideal for conveyor systems and doorway sensing with direct interface to PLC's. Meets NEMA 4X, 6 and IP67 standards. Through-beam sensors include separate transmitter and receiver. Reflective sensors include transceiver and E39-R1 reflector. Horizontal mount sensors include mounting bracket. All sensors include mounting hardware.

Fig. 1 — Horizontal
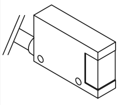

Fig. 2 — Vertical
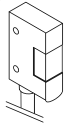

9297B-ND Omron Industrial Opto Sensor, Data Book **$2.00**

Fig.	Sensing Method	Mounting Type/Features	Dist. (Max.) Ft.	(M)	Terminal Type	Digi-Key Part No.	Price Each 1	25	100	Omron Part No.
1	Through-Beam	Horizontal	22.97	(7)	2m Cable	OR584-ND	236.60	212.94	170.36	E3S-AT11
	Reflective		6.56	(2)		OR585-ND	203.00	182.70	146.16	E3S-AR11
2	Through-Beam	Vertical	22.97	(7)	2m Cable	OR586-ND	189.28	170.36	160.89	E3S-AT61
	Reflective		6.56	(2)		OR587-ND	203.00	182.70	146.16	E3S-AR61
—	Mounting Bracket for Vertical Sensors (2 required for Through-Beam Type)					OR588-ND	6.72	6.05	4.84	E39-L59
—	Light Reflector for Confirming Optical Alignment during Setup (Clips onto Receiver)...........					OR589-ND	15.90	14.32	13.52	E39-R5

Amplified Optical Sensors

EE-SPX74/84 series of optical sensors feature a snap in connector which provides excellent shock and vibration resistance and prevents accidental disconnection of the sensor.

Fig. 1
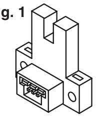

Fig. 2
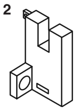

Fig. 3
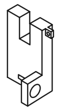

Fig. 4
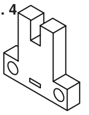

Fig.	Sensing Method	Sensing Distance	Output Type	Output	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Slot	3.6mm	NPN	Dark-On	OR615-ND	82.35	74.12	65.88	EE-SPX740
				Light-On	OR616-ND	82.35	74.12	65.88	EE-SPX840
2	Slot	3.6mm	NPN	Dark-On	OR617-ND	82.35	74.12	65.88	EE-SPX742
				Light-On	OR618-ND	82.35	74.12	65.88	EE-SPX842
3	Slot	3.6mm	NPN	Dark-On	OR619-ND	82.35	74.12	65.88	EE-SPX743
				Light-On	OR620-ND	82.35	74.12	65.88	EE-SPX843
4	Slot	3.6mm	NPN	Dark-On	OR621-ND	82.35	74.12	65.88	EE-SPX741
				Light-On	OR622-ND	82.35	74.12	65.88	EE-SPX841
Snap-In connector w/cable for EE-SPX74/84 Series....					OR623-ND	5.81	5.23	4.65	EE-1013

Non-Amplified Optical Sensors

Fig. 1
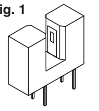

Fig. 2
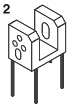

Fig. 3
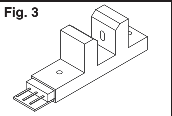

Fig.	Sensing Method	Sensing Distance	Terminal Type	Switch Time (MS)	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Slot	5mm	PC Board	4/4	OR627-ND	1.75	1.58	1.40	EE-SX1081
		2mm			OR624-ND	1.75	1.58	1.40	EE-SX1018
		5mm			OR625-ND	1.63	1.47	1.30	EE-SX1041
		3.4mm			OR626-ND	1.75	1.58	1.40	EE-SX1071
		3mm			OR631-ND	1.75	1.58	1.40	EE-SX198
		3mm			OR632-ND	1.75	1.58	1.40	EE-SX199
2	Slot	2mm	PC Board	10/10	OR633-ND	1.28	1.15	1.02	EE-SX1103
		2mm			OR634-ND	1.28	1.15	1.02	EE-SX1105
		3mm			OR635-ND	1.28	1.15	1.02	EE-SX1106
3	Slot	5mm	AMP Connect	3KHz	OR629-ND	3.78	3.40	3.02	EE-SX4009-P1
			Molex Connect		OR630-ND	4.68	4.21	3.74	EE-SX4009-P10

Non-Amplified Optical Sensors SMT

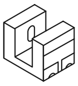

SMT compact size makes these sensors ideal for use in applications with restricted space. Dual channel model (EE-SX1131) is ideal for encoder applications.

Sensing Method	Sensing Dist.	Term. Type	Type On/Off	Digi-Key Part No.	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape and Reel Size	Pricing	Omron Part No.
Slot (Dual)	2mm	SMT	10/10	OR628CT-ND	1.28	1.15	1.02	OR628TR-ND	2,000	637.50/M	EE-SX1131
Slot	1mm	SMT	10/10	OR636CT-ND	1.28	1.15	1.02	OR636TR-ND	2,500	637.50/M	EE-SX1107
	2mm			OR637CT-ND	1.28	1.15	1.02	OR637TR-ND	2,000	637.50/M	EE-SX1108
	3mm			OR638CT-ND	1.28	1.15	1.02	OR638TR-ND	1,000	637.50	EE-SX1109

Advanced Photonix, Inc.
Previously **Photonic Detectors**

Silicon Detectors and Emitters

Fig. 1 – Plastic Pkg.

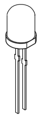

Fig. 2 – Flat Top

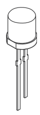

Fig. 3 – Plastic Sidelooker

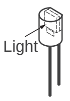

Fig. 4 – Plastic Sidelooker

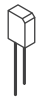

Fig. 5 – Ceramic, Epoxy Glob

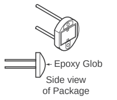

Fig. 6

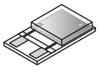

Fig. 7 – Ceramic, Epoxy Filled

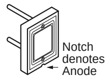

Fig. 8 – 1206 SMT Pkg.

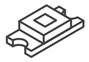

Fig. 9 – Mini SMT Pkg.

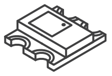

Fig. 10

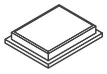

Fig. 11 – Flat Window

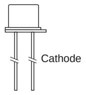

Fig. 12 – Solderable Photo Cell

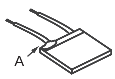

Fig. 13 – Solderable Photo Cell

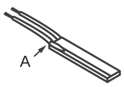

Fig. 14 – 32 Element Array

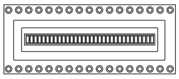

Fig. 15 – 16 Element Array

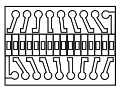

Fig. 16

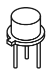

Fig. 17

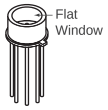

Fig. 18 – Lens Window

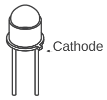

Fig. 19

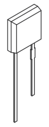

Fig. 20

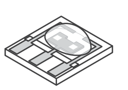

Curve Graph

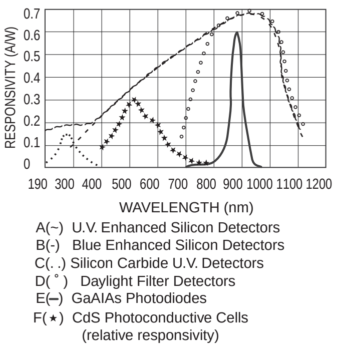

Photo Detectors

Fig.	Active Area (mm sq)	Short Circuit Current (Isc) (uA) Typ.	Dark Current (Id) (nA) Max	Sensitivity Wavelength (nm)			Junction Capacitance (pF) Typ.	Response RL=1KΩ (nS) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each			Tape and Reel†	
				Min.	Peak	Max.					1	25	100	Size	Pricing
Blue Enhanced PhotoConductive Detectors, Curve Line B															
1	1.55	60	30	400	950	1100	6	10	30	PDB-C134-ND	2.19	1.30	1.09	—	—
1	4.10	150	30				18	50	59	PDB-C142-ND	3.30	2.04	1.80	—	—
2	4.10	67	30				18	50	61	PDB-C139-ND	3.30	2.04	1.80	—	—
3	9.00	145	30				10	50	120	PDB-C158-ND	3.37	2.00	1.68	—	—
4	8.02	90	15				10	15	120	PDB-C156-ND	3.37	2.00	1.68	—	—
5	17.74	235	50	350	950	1100	100	20	120	PDB-C107-ND	12.45	8.06	7.55	—	—
5	7.95	110	30				60	16	120	PDB-C113-ND	8.16	5.28	4.95	—	—
6	7.95	110	10				60	100	—	PDB-C165-ND	10.98	7.11	6.66	—	—
5	29.02	400	25				200	18	120	PDB-C140-ND	11.29	8.06	7.74	—	—
7	100	1300	30				300	25	120	PDB-C110-ND	60.49	46.08	43.89	—	—
8	0.74	10	10	400	950	1100	15	50	140	PDB-C152SMCT-ND	2.37	1.40	1.18	3,000	956.76/M
9	2.10	25					4	10	—	PDB-C154SMCT-ND	2.50	1.48	1.25	2,000	1013.04/M
10	7.67	90	30	400	900	1100	15	20	—	PDB-C171SMCT-ND	3.13	1.85	1.56	1,000	1266.30
Photo Conductive Detectors with Daylight Filter, Curve Line D															
1	1.55	60	30	700	950	1100	6	10	30	PDB-C134F-ND	2.19	1.30	1.09	—	—
1	4.10	150	30				18	50	40	PDB-C142F-ND	3.30	2.04	1.80	—	—
2	4.10	67	30				18	50	61	PDB-C139F-ND	3.30	2.04	1.80	—	—
3	9.00	145	30				10	50	120	PDB-C158F-ND	3.37	2.00	1.68	—	—
4	8.02	90	15				10	15	120	PDB-C156F-ND	3.37	2.00	1.68	—	—
9	2.10	25	10	700	950	1100	4	10	—	PDB-C154SMFCT-ND	2.50	1.48	1.25	—	—
Blue Enhanced Photovoltaic Detectors, Curve Line B															
5	17.74	200	0.8	350	950	1100	2000	1000	120	PDB-V107-ND	9.97	6.46	6.05	—	—
5	7.95	80	0.5				800	750		PDB-V113-ND	11.56	7.48	7.01	—	—
7	100.00	1200	0.333				10000	2000		PDB-V110-ND	58.18	44.33	42.21	—	—
U.V. Enhanced Photovoltaic Detectors, Curve Line A															
11	2.98	40	0.01	190	—	1100	340	450	65	PDU-V104-ND	11.09	7.91	7.60	—	—
	17.63	230	0.05				2000	900	63	PDU-V114-ND	35.95	25.64	24.64	—	—
Blue Enhanced Solderable Photo Cells, Curve Line B															
12	42.4	545	75	350	940	1100	240	30	—	PDB-C609-2-ND	10.91	7.06	6.61	—	—
12	86.4	1000	180				350	50		PDB-C613-2-ND	14.34	9.72	9.30	—	—
13	14.5	185	35				125	25		PDB-C607-2-ND	11.03	7.14	6.69	—	—
13	68.7	900	150				300	45		PDB-C612-2-ND	17.37	11.77	11.26	—	—
13	232.7	2800	700				775	150		PDB-C615-2-ND	27.94	19.93	19.15	—	—
13	62.91	650	135				285	40		PDB-V617-2-ND	17.35	11.22	10.52	—	—
Blue Enhanced Bi-Cells, Quadrants and Multi-Element Detector Arrays, Curve Line B															
14	1.47*	11	.15	350	950	1100	30	200	—	PDB-C232-ND	195.96	160.80	155.16	—	—
15	2.31*	28	5.0				40	800	—	PDB-C216-ND	64.65	49.25	46.90	—	—
16	3.23*	75	2.0				15	8	72	PDB-C201-ND §	20.94	14.94	14.36	—	—
17	1.61*	50	1.0				8	7	71	PDB-C203-ND ◊	30.08	21.45	20.62	—	—
Silicon Carbide (SiC) U.V. Photodiode, Curve Line C															
16	0.08	0.04	1.0	200	280	400	21	5	87	PDU-S101-ND	20.17	13.67	13.08	—	—
GaAIAs I.R. Photodiode, Curve Line E															
1	0.77	22	2.0	840	880	940	90	1000	30	PDI-G104-ND	4.67	3.03	2.84	—	—
16		6.0							65	PDI-G103-ND	21.49	15.33	14.74	—	—
18		22							40	PDI-G103L-ND	23.65	16.02	15.33	—	—
Photo Conductive Silicon Photodiodes															
19	2.9	38	1	400	950	1100	60	100	—	PDB-C168-ND	8.59	5.56	5.21	—	—
19	8.1	102	30	400	950	1100	25	50		PDB-C169-ND	8.59	5.56	5.21	—	—
19	1.7	27	.6	400	950	1100	30	100		PDB-C170-ND	8.59	5.56	5.21	—	—
10	7.67	85	30	840	900	1050	15	20		PDI-C172SMFCT-ND	3.13	1.85	1.56	1,000	1266.30
10	7.67	90	30	600	900	1050	15	20		PDV-C173SMCT-ND	3.13	1.85	1.56	1,000	1266.30

* Per Element § bi-cell ◊ quad † For Tape and Reel part number, change CT-ND to TR-ND.

Oximeter Components

Fig.	661nm					905/940nm					Digi-Key Part No.	Price Each			
	Forward Voltage (V) Typ.	Reverse Breakdown (V)	Peak Wavelength (nm) Typ.	Spectral Bandwidth (nm) Typ.	Rise/Fall Time (µS) Typ.	Forward Voltage (V) Typ.	Reverse Breakdown (V)	Peak Wavelength (nm) Typ.	Spectral Bandwidth (nm) Typ.	Rise/Fall Time (µS) Typ.		1	25	100	250
20	1.8	5	661	25	0.8/0.8	1.2	5	905	50	0.8/0.8	PDI-E832-ND	10.63	6.88	6.45	6.17
	1.8	5	661	25	0.8/0.8	1.3	5	940	50	0.8/0.8	PDI-E835-ND	11.26	7.29	6.83	6.53

High Power Infrared Emitters

Fig.	Forward Voltage (V) Typ.	Forward Current (mA) Con.	Output Power (mW) Typ.	Beam Angle (2x Theta)	Peak Wavelength (nm) Typ.	Digi-Key Part No.	Price Each 1	25	100	250
18	1.5	100	24	40	880	PDI-E802-ND	15.27	10.35	9.90	9.52
			24	8		PDI-E803-ND	15.27	10.35	9.90	9.52
			32	80		PDI-E804-ND	9.62	6.23	5.83	5.58
			24	5		PDI-E805-ND	14.68	9.95	9.52	9.15
11	1.5	100	22	80	880	PDI-E801-ND	15.27	10.35	9.90	9.52

Photoconductive Cells

Dim. D (mm)	Cell Resistance*				Peak Wavelength (nm) Typ.	Rise/Fall Time (ms) Typ.	Digi-Key Part No.	Price Each			
	10 Lux @ 2856K		Dark								
	Min. (KΩ)	Max. (KΩ)	Min. (MΩ)	SEC				1	25	100	250
Fig. 21, Curve Line F											
11.00	8	16	0.3	10	520	55/25	PDV-P5001-ND	2.96	1.75	1.47	1.39
	12	30	0.5				PDV-P5002-ND	2.96	1.75	1.47	1.39
	12	58	1				PDV-P5003-ND	2.96	1.75	1.47	1.39
5.10	3	11	0.2	10	520	50/20	PDV-P8001-ND	2.19	1.30	1.09	1.03
	40	120	1			60/25	PDV-P8005-ND	2.19	1.30	1.09	1.03
	80	240	5			60/25	PDV-P8006-ND	2.19	1.30	1.09	1.03
	4	11	0.15			55/20	PDV-P8101-ND	2.19	1.30	1.09	1.03
	9	20	0.3			60/25	PDV-P8102-ND	2.19	1.30	1.09	1.03
	80	240	20			60/25	PDV-P8107-ND	2.19	1.30	1.09	1.03
4.20	4	11	0.3	10	520	60/25	PDV-P9001-ND	1.77	1.05	.89	.84
	9	20	0.5				PDV-P9002-ND	1.77	1.05	.89	.84
	11	20	0.5				PDV-P9002-1-ND	1.77	1.05	.89	.84
	16	33	1				PDV-P9003-ND	1.77	1.05	.89	.84
	23	33	1				PDV-P9003-1-ND	1.77	1.05	.89	.84
	27	60	2	10	520	60/25	PDV-P9004-ND	1.77	1.05	.89	.84
	50	94	2.5				PDV-P9005-ND	1.77	1.05	.89	.84
	48	140	20				PDV-P9005-1-ND	1.77	1.05	.89	.84
	80	200	5				PDV-P9006-ND	1.77	1.05	.89	.84
	10	100	1				PDV-P9007-ND	1.77	1.05	.89	.84
	10	200	20	10	520	60/25	PDV-P9008-ND	1.77	1.05	.89	.84
	20	45	1			60/25	PDV-P9103-ND	1.77	1.05	.89	.84
	10	50	5			70/15	PDV-P9200-ND	1.77	1.05	.89	.84
	5	20	20			70/15	PDV-P9203-ND	1.77	1.05	.89	.84

* Photocells are light adapted at 100 to 500 Lux.

TDK *NEW!* Visible Radiant Optical Sensors

These photodiodes use an amorphous silicone semiconductor on the glass substrate. They are the most suitable for brightness adjustment and control of lighting systems. **Features:** • Highly receptive to visible light but not receptive to infrared light (close to human eye visibility) • Accurate illumination measurement can be taken without the use of an infrared filter

Specifications: • Operating Temperature: -20 to 85°C • Spectral Sensitivity Area: 350 to 750 nm • Peak of sensitivity: 580nm ±20 **Application:** Brightness control for LCD, EL, and CRT • Brightness control for keypads (e.g. mobile phones) • Positioning scanline for rear projection TV • Exposure adjust for compact camera • Subexposure adjust for digital camera

Photodiodes

Fig.	Max. Output Current (VR=5V)	Max. Reverse Bias Volt. (V)	Max. Dark Current (pA) VR=.05V	A Dim. (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	Digi-Key Part No.	Tape and Reel Size	Pricing	TDK Part No.
1	0.16	10	10	0.6	445-2589-1-ND	3.62	2.50	445-2589-2-ND	4,000	1654.00/M	BCS2015G1
	0.13	6	10	.25	445-2591-1-ND	3.62	2.50	445-2591-2-ND	4,000	1654.00/M	BCS2015H1
2	0.55	6	100	—	445-2590-1-ND	6.24	4.75	445-2590-2-ND	3,000	3371.00/M	BCS5030G1

Photo IC

Fig.	Max. Output Current (uA)	Max. Operating Voltage (V)	Max.Dark Current (nA) VDD=3V	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	TDK Part No.
3	3.7	5	4	445-2907-1-ND	7.24	5.00	4.07	445-2907-2-ND	4,000	3308.00/M	BCS1210A1L

Dimensions in (mm)

Fig. 1

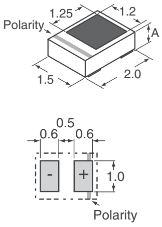

Fig. 2

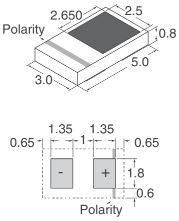

Fig. 3

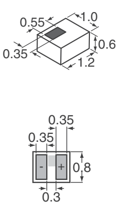

OSRAM Optoelectronics

Opto Semiconductors

Dimensions in (mm)

Fig. 1

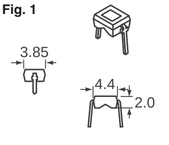

Fig. 2

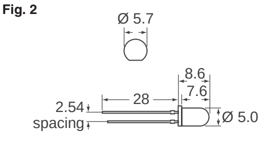

Fig. 3

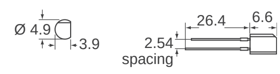

Fig. 5

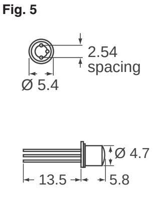

Fig. 4

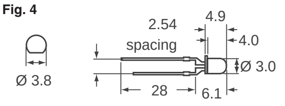

Fig. 6

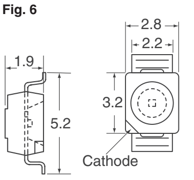

Fig. 7

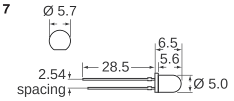

Fig. 8

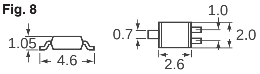

Fig. 9

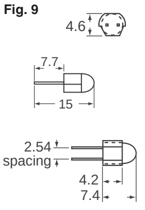

Fig. 10

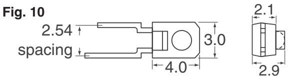

Fig. 11

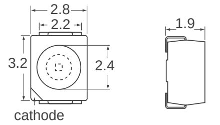

Fig. 12

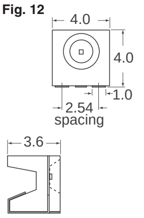

Fig. 13

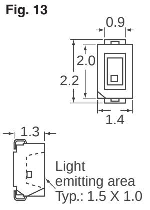

Fig. 14

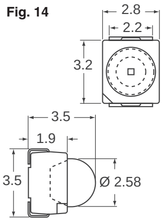

Fig. 15

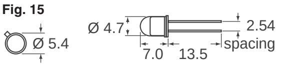

Fig. 16

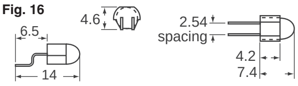

Fig. 17

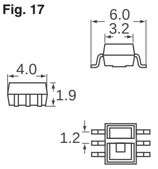

Pin Photodiodes

Fig.	Fwd. Volt. (V)	Photo Cur. (µA)	Dark Cur. (nA)	Peak Sen. Wave-length (nm)	Rise/Fall Time (ns)	View Angle (deg.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Osram Part No.
1	1.3	80	2	850	20	120	475-1070-ND‡	1.08	.90	.72	BPW34
	1.3	50	2	950	20	120	475-1071-ND‡	1.08	.90	.72	BPW34F
	1.3	50	2	880	20	120	475-1072-ND‡	1.08	.90	.72	BPW34FA
2	1.3	50	1	900	5	40	475-1075-ND‡	.99	.83	.67	SFH203FA
	1.3	135	1	850	5	20	475-1077-ND‡	.92	.77	.62	SFH213
3	1.3	80	2	850	20	120	475-1076-ND‡	1.17	.98	.79	SFH206K
4	1.3	28	.05	860	10	34	475-1078-ND‡	.74	.62	.50	SFH229
	1.3	20	.05	900	10	34	475-1079-ND‡	.74	.62	.50	SFH229FA

‡ Bulk

Phototransistors

Fig.	Collector Emitter (V) Max.	Photo Cur. Emit. to Col. (mA) Typ.	Dark Cur. (nA)	Peak Sen. Wavelength (nm)	Rise/Fall Time (µs) Typ.	View Angle (deg.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Osram Part No.
2	70	7.5	3	870	11	20	475-1080-ND‡	.45	.38	.30	SFH313FA
5	50	3	20	880	15/18	30	475-1074-ND‡	1.50	1.26	1.01	BPX43-4/5
7	70	1.9	3	850	11	80	475-1081-ND‡	.45	.38	.30	SFH314
8	20	.19	3	850	25	120	475-1082-1-ND	.78	.65	.52	SFH3400
9	35	11	3	860	21	26	475-1085-1-ND	.57	.48	.38	SFH3505FA

‡ Bulk

Infrared Emitters

Fig.	Fwd. Volt. (V)	Forward Current (mA) Max.	Optical Power Output (mW/sr)*	Peak Wavelength (nm)	Beam Angle (deg.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Osram Part No.
2	1.3	100	25 min.	950	34	475-1088-ND‡	.33	.28	.22	—	—	—	SFH415
	1.5	100	110 typ.	950	14	475-1102-ND‡	.61	.51	.41	—	—	—	SFH4501
	1.5	100	60 typ.	950	36	475-1103-ND‡	.61	.51	.41	—	—	—	SFH4502
	1.5	100	250 typ.	950	8	475-1104-ND‡	.61	.51	.41	—	—	—	SFH4503
	1.5	100	180 typ.	850	6	475-1200-ND‡Δ ***NEW!***	.54	.45	.36	—	—	—	SFH4550
	1.5	100	100 typ.	880	16	475-1111-ND‡	.48	.41	.33	—	—	—	SFH484
	1.5	100	60 typ.	880	40	475-1112-ND‡	.48	.41	.33	—	—	—	SFH485
4	1.3	100	6.3 min.	950	40	475-1086-ND‡	.56	.47	.38	—	—	—	SFH409
6	1.5	100	4 min.	880	120	475-1098-1-ND	.63	.53	.42	475-1098-2-ND	2,000	315.00/M	SFH4281
9	1.5	100	85 typ.	950	20	475-1105-1-ND	.66	.55	.44	475-1105-2-ND	1,000	330.00	SFH4505
	1.3	100	50 typ.	950	28	475-1107-1-ND	.45	.38	.30	475-1107-2-ND	1,000	225.00	SFH4515
	1.5	100	25 min.	880	30	475-1109-1-ND	.60	.50	.40	475-1109-2-ND	1,000	300.00	SFH4585
10	1.2	60	2.5 min.	950	18	475-1087-ND‡	.43	.37	.29	—	—	—	SFH4110
11	1.3	100	2.5 min.	950	120	475-1089-1-ND	.48	.40	.32	475-1089-2-ND	2,000	240.00/M	SFH420
	1.5	100	10.5 typ.	950	120	475-1090-1-ND	.99	.83	.66	475-1090-2-ND	2,000	495.00/M	SFH4200
	1.3	100	2.5 min.	950	120	475-1095-1-ND	.57	.48	.38	—	—	—	SFH4211
12	1.5	100	10.5 typ.	950	120	475-1092-1-ND	.53	.44	.35	—	—	—	SFH4205
13	1.5	100	8 typ.	950	130	475-1091-1-ND	.96	.80	.64	475-1091-2-ND	3,000	480.00/M	SFH4203
14	1.5	100	24 typ.	950	50	475-1093-1-ND	.99	.83	.66	—	—	—	SFH4209
15	1.5	200	40 min.	880	12	475-1110-ND‡	1.43	1.19	.96	—	—	—	SFH480
16	1.5	100	85 typ.	950	20	475-1101-1-ND	.66	.55	.44	475-1101-2-ND	1,000	330.00	SFH4500
	1.3	100	50 typ.	950	28	475-1106-1-ND	.45	.38	.30	475-1106-2-ND	1,000	225.00	SFH4510
	1.5	100	25 min.	880	30	475-1108-1-ND	.60	.50	.40	475-1108-2-ND	1,000	300.00	SFH4580

* At I_F = 100mA, t_p = 20ms ‡ Bulk Δ ***RoHS Compliant***

Schmitt-Trigger Photo Detector

Fig.	Supply Volt. (V)	Output Cur. (mA)	Rise/Fall Time (ns)	View Angle (deg.)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Osram Part No.
8	4-18	16	100	120	475-1113-1-ND	1.05	.88	.70	475-1113-2-ND	2,000	525.00/M	SFH5440

Schmitt-Trigger Reflective Interrupter

Fig.	Forward Voltage (V)	Forward Current (mA) Max.	Supply Voltage (V)	Output Current (mA) Max.	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Osram Part No.
17	1.25	50	4-18	16	475-1115-1-ND	1.44	1.20	.96	475-1115-2-ND	1,000	720.00	SFH9240

OMRON®

Amplified Optical Sensors

Fig. 1

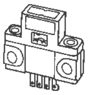

Fig. 2

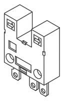

Fig. 3

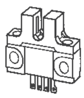

Fig. 4

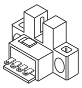

L-Shape

Fig. 5

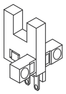

T-Shape

Fig. 6

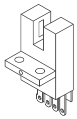

Fig. 7

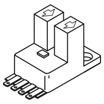

Fig. 8

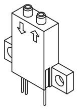

Fig. 9

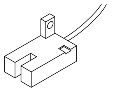

Right Mount Shown

Fig. 10

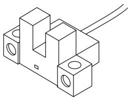

Fig. 11

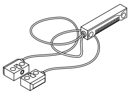

Fig. 12

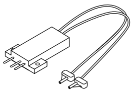

Fig. 13

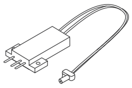

Fig. 14

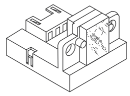

Fig. 15

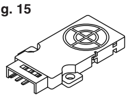

Inductive Type

Fig. 16

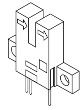

Fig. 17

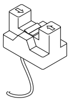

Fig. 18

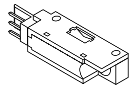

Fig. 19

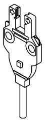

Fig. 20

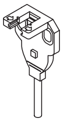

Fig. 21

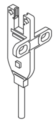

Fig.	Sensor Type/Features	Sensing Distance	Config-uration	Digi-Key Part No.	Price Each 1	25	Omron Part No.
1	Reflective (General Purpose)	5mm	Light-On	OR506-ND	16.34	14.71	EE-SB5V
1	Reflective (General Purpose)	5mm	Dark-On	OR507-ND	16.34	14.71	EE-SB5VC
1	Reflective (General Purpose)	19mm	Light-On	OR519-ND	22.83	20.55	EE-SB5V-E
1	Reflective (Side Detecting)	5mm	Light-On	OR535-ND*	44.21	39.80	EE-SPY311
1	Reflective (Side Detecting)	5mm	Light-On	OR536-ND*	44.21	39.80	EE-SPY411
1	Reflective (Top Detecting)	5mm	Dark-On	OR572-ND*	44.21	39.80	EE-SPY312
1	Reflective (Top Detecting)	5mm	Light-On	OR573-ND*	44.21	39.80	EE-SPY412
1	Reflective (Side Detecting)	5mm	Light/Dark-On	OR531-ND†	26.45	23.81	EE-SY671
1	Reflective (Top Detecting)	5mm	Light/Dark-On	OR532-ND†	26.46	23.82	EE-SY672
2	Wide Slot (13mm Slot)	13mm	Dark-On	OR533-ND*	47.25	42.53	EE-SPX303
2	Wide Slot (13mm Slot)	13mm	Light-On	OR534-ND*	47.25	42.53	EE-SPX403
3	Slot (Dust Proof Slit)	5mm	Light/Dark-On	OR528-ND	22.01	19.81	EE-SX670
3	Slot (Dust Proof Slit)	5mm	Light/Dark-On	OR611-ND	22.01	19.81	EE-SX670A
4	Slot (L-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR529-ND	22.41	20.17	EE-SX671
4	Slot (L-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR612-ND	22.41	20.17	EE-SX671A
5	Slot (T-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR530-ND	22.68	20.42	EE-SX672
5	Slot (T-Shaped, Dust Proof Slit)	5mm	Light/Dark-On	OR613-ND	22.68	20.42	EE-SX672A
6	Slot (Close Mounting Style)	5mm	Light/Dark-On	OR549-ND	23.49	21.15	EE-SX673
6	Slot (Close Mounting Style)	5mm	Light/Dark-On	OR614-ND	23.49	21.15	EE-SX673A
7	Slot (Close Mount)	5mm	Light/Dark-On	OR597-ND	24.17	21.75	EE-SX674
8	Reflective (Long Distance)	200mm	Dark-On	OR538-ND*	59.40	53.46	EE-SPZ301A
8	Reflective (Long Distance)	200mm	Light-On	OR539-ND*	59.40	53.46	EE-SPZ401A
9	Slot (Left Mount with 1M Cable)	3.6mm	Dark-On	OR541-ND*	67.50	60.75	EE-SPX302-W2A
9	Slot (Right Mount with 1M Cable)	3.6mm	Dark-On	OR542-ND*	72.90	65.61	EE-SPX304-W2A
10	Slot (Top Mount with 1M Cable)	3.6mm	Dark-On	OR543-ND*	75.60	68.04	EE-SPX305-W2A
10	Slot (Top Mount with 1M Cable	5mm	Light-On	Z2357-ND	48.99	45.36	EE-SPX405-W2A
11	Slot (Wide Sensing Distance)	300mm	Dark-On	OR546-ND*	175.50	157.95	EE-SPW321
11	Slot (Wide Sensing Distance)	300mm	Light-On	OR547-ND*	175.50	157.95	EE-SPW421
12	Fiber (19" Optical Fiber)	30mm	Dark-On	OR552-ND*	81.34	73.21	EE-SPZ301W-01
12	Fiber (19" Optical Fiber)	30mm	Light-On	OR553-ND*	81.34	73.21	EE-SPZ401W-01
13	Reflective (11"Optical Fiber)	1-3mm	Dark-On	OR554-ND*	85.05	76.55	EE-SPZ301Y-01
13	Reflective (11" Optical Fiber)	1-3mm	Light-On	OR555-ND*	85.05	76.55	EE-SPZ401Y-01
14	Reflective (External A-D Needed)	7.5mm	10 Bit A/D	OR548-ND	53.71	48.34	Z4D-A01
15	Inductive (Detects Ferrous Metal)	5mm	N/O Output	OR560-ND	29.36	26.43	E2R-A01
16	Slot (General Purpose)	3.6mm	Dark-On	OR574-ND*	45.56	41.01	EE-SPX301
16	Slot (General Purpose)	3.6mm	Light-On	OR575-ND*	45.56	41.01	EE-SPX401
17	Slotted Liquid Level Detector	6-13mm	Dark/Light-On	OR579-ND*	129.86	116.88	EE-SPX613
18	Reflective (General Purpose)	11mm	Dark-On	OR580-ND*	15.83	14.25	EE-SPY415
19	Slot Type with 2M Cable	5mm	Dark-On	OR605-ND*	29.36	26.43	EE-SX770
19	Slot Type with 2M Cable	5mm	Light-On	OR606-ND*	29.36	26.43	EE-SX870
20	L-Shaped with 2M Cable	5mm	Dark-On	OR607-ND*	31.05	27.95	EE-SX771
20	L-Shaped with 2M Cable	5mm	Light-On	OR608-ND*	31.05	27.95	EE-SX871
21	T-Shaped with 2M Cable	5mm	Dark-On	OR609-ND*	32.40	29.16	EE-SX772
21	T-Shaped with 2M Cable	5mm	Light-On	OR610-ND*	32.40	29.16	EE-SX872
—	IR Reflector for Fig. 8 above, 60 x 40mm			OR540-ND	16.10	14.49	E39-R1
—	3 Pin Connector with 1 Meter Cable for Fig. 15 above			OR561-ND	7.85	7.07	E22-01
—	Converter from NPN to PNP Output for Amp Sensors			OR550-ND	29.03	26.13	EE-2001
—	Converter from NPN to PNP Output for AMP Sensors			OR551-ND	29.03	26.13	EE-2002
—	4 Pin Connector for Fig. 1-6 above			OR527-ND	2.97	2.68	EE-1001
—	4 Pin Connector with 2 Meter Cable for Fig. 1-6 above			OR559-ND	13.91	12.52	EE-1006
—	Panel Mount Holder Clip for OR559-ND			OR576-ND	4.19	3.77	EE-1006A
—	3 Pin Connector for 8, 12, 13 and 16 above			OR537-ND	4.70	4.23	EE-1002
—	3 Pin Connector with 2 Meter Cable for 4, 12 and 13 above			OR558-ND	5.27	4.74	EE-1003
—	Panel Mount Holder Clip for OR558-ND			OR583-ND	1.62	1.46	EE-1003A

* Sensors not influenced by external light. † Built-in sensitivity adjuster.

Non-Amplified Optical Sensors

Omron's optical sensors are designed to meet the needs of positioning, detection of components and objects, cam-timer switching-control and robotic control. Available in two types: nonamplified optical sensors are low cost, fast response optical sensors used mainly in design-in processes. Amplified optical sensors are ideal for plug and play applications where external light does not affect performance and wide input voltages can be applied.

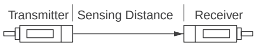

Through-Beam Slot Type

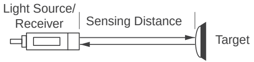

Reflective Type

Fig. 1

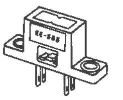

Fig. 2

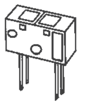

Fig. 3

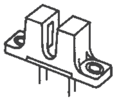

Fig. 4

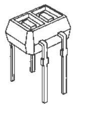

Fig. 5

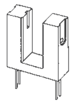

Fig. 6

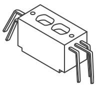

Low Profile

Fig. 7

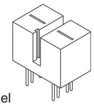

Dual Channel

Fig. 8

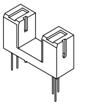

Fig. 9

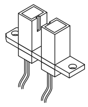

Fig. 10

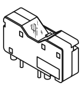

Fig. 11

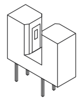

Fig. 12

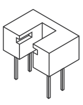

Fig. 13

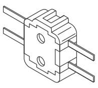

Fig. 14

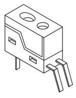

Fig. 15

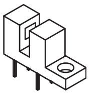

Fig. 16

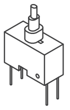

Fig.	Sensing Method	Sensing Distance	Terminal Type	Typical t_{on}/t_{off} (µsec.)	Digi-Key Part No.	Price Each 1	25	100	Omron Part No.
1	Reflective	5mm	Solder	30/30	OR500-ND	4.78	4.30	3.44	EE-SB5
	Reflective	5mm	PC Board	30/30	OR501-ND	4.78	4.30	3.44	EE-SB5-B
2	Reflective	5mm	Solder	30/30	OR502-ND	4.70	4.23	3.39	EE-SF5
	Reflective	5mm	PC Board	30/30	OR503-ND	4.70	4.23	3.39	EE-SF5-B
3	Slot	3.6mm	Solder	4/4	OR504-ND	3.58	3.22	2.58	EE-SG3
	Slot	3.4mm	Solder	4/4	OR713-ND	3.97	3.58	2.86	EE-SH3
	Slot	3.4mm	Solder	4/4	OR714-ND	4.92	4.44	3.55	EE-SV3
	Slot	3.4mm	PC Board	4/4	OR715-ND	5.08	4.58	3.67	EE-SX305
	Slot	3.6mm	PC Board	4/4	OR505-ND	3.58	3.22	2.58	EE-SG3-B
4	Reflective	1mm	PC Board	35/25	OR520-ND	1.90	1.71	1.37	EE-SY124
	Reflective	1mm	SMT	35/25	OR557-ND	1.90	1.71	1.37	EE-SY125
5	Slot	5mm	PC Board	4/4	OR518-ND	1.68	1.51	1.21	EE-SX1042
	Slot	4.6mm	PC Board	500Hz	OR556-ND	1.95	1.76	1.41	EE-SX1061
	Slot	3mm	PC Board	70/70	OR601-ND	1.95	1.76	1.41	EE-SX298
6	Reflective	5mm	PC Board	50Hz	OR525-ND	3.45	3.11	2.49	EE-SY310
	Reflective	5mm	PC Board	50Hz	OR526-ND	3.45	3.11	2.49	EE-SY410
	Reflective	4.4mm	PC Board	3/20	OR603-ND	3.68	3.31	2.65	EE-SY313
	Reflective	4.4mm	PC Board	3/20	OR604-ND	3.68	3.31	2.65	EE-SY413
7	Slot	3.4mm	PC Board	4/4	OR523-ND	4.08	3.67	2.94	EE-SX1031
8	Slot	8mm	PC Board	3KHz	OR716-ND	2.45	2.21	1.77	EE-SX3070
	Slot	8mm	PC Board	3KHz	OR524-ND	1.93	1.74	1.39	EE-SX4070
	Slot	8mm	PC Board	3KHz	OR571-ND	1.68	1.51	1.21	EE-SX1070
9	Vertical Slot	3.4mm	61cm Wires	4/4	OR562-ND	7.08	6.37	5.10	EE-SX1088-W1
	Horizontal Slot	3.4mm	61cm Wires	4/4	OR563-ND	6.68	6.01	4.81	EE-SX1096-W1
10	Reflect/Vert	4.5mm	PC Board	30/30	OR564-ND	10.50	9.45	7.56	EE-SY190
	Reflect/ Horz	4.5mm	PC Board	30/30	OR565-ND	10.50	9.45	7.56	EE-SY191
11	Slot	3.4mm	PC Board	4/4	OR569-ND	3.18	2.86	2.29	EE-SJ3-D
	Slot	2.8mm	PC Board	4/4	OR598-ND	2.03	1.83	1.46	EE-SX1025
	Slot	5.2mm	PC Board	4/4	OR599-ND	2.13	1.92	1.53	EE-SX1035
12	Slot	3mm	PC Board	4/4	OR570-ND	2.90	2.61	2.09	EE-SX1046
	Slot	2mm	PC Board	3/20	OR600-ND	2.93	2.64	2.11	EE-SX493
13	Reflective	4 mm	PC Board	180/60	OR578-ND	3.53	3.18	2.54	EE-SY201
14	Red LED Reflect	4 mm	PC Board	30/30	OR581-ND	10.53	9.48	7.58	EE-SY169
	IR Reflective	4 mm	PC Board	30/30	OR582-ND	9.40	8.46	6.77	EE-SY169A
15	Slot	3mm	PC Board	70/70	OR602-ND	3.05	2.75	2.20	EE-SK3W-B
16	Actuator	Contact	PC Board	—	OR712-ND	3.09	2.78	2.23	EE-SA105

D6A Air Flow Sensor

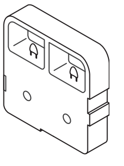

The industry first D6A filter sensor contains a microprocessor with a complex algorithms that provides a temperature reference point to see if a filter fan is moving the right amount of air. If the sensor indicates it is not, then the user knows the filter is clogged. With its sensing capabilities, the D6A provides reliability protection, ensuring the dependability of continued operation of expensive equipment. This clogged filter sensor is excellent for servers, high end routers and network devices. Other applications include uninterruptible power supplies, cash registers and other types of machines that use a filter fan.

Specifications: • Supply Voltage: DC12V • Current Consumption: 60mA (Maximum)

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Air Flow Sensor - .5~1.5M/1 Second	Z2002-ND	57.90	45.90	44.11	D6A-N

OMRON. D6F Gas Flow Sensor

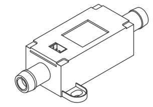

The D6F is a new supersensitive gas flow sensor. It is able to measure both gas velocity and direction at extremely low flow rates, and is ideal for looking at low pressure medical gases, boiler emissions, and HVAC system airflow. It is suitable for measuring the amount of oxygen and nitrogen dioxide, consumed from a respiratory apparatus in surgery. It can also be used for monitoring air circulation in a building and thus improving the performance and efficiency of air conditioning and building comfort systems. The extreme sensitivity is achieved with a tiny heating element, associated with temperature sensors on both sides. The deviation is temperature measured by the two sensors and used to calculate the gas flow and direction, generating a non-linear analogue output in the range of 1V ~ 5V.

Case Material	Suitable Gas	Flow Range	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
PPS	Air	0-1Liter/minute	Z1671-ND	169.44	137.89	131.32	D6F-01A1-110
PPS	Air	0-2Liter/minute	Z1672-ND	245.00	220.50	196.00	D6F-02A1-110
Aluminum	LNG*	0-5Liter/minute	Z1673-ND†	201.68	165.49	159.69	D6F-05N2-000

* Liquid Natural Gas † D6F-05 is a 1/4' pipe thread version using British Taper (Rc) standard.

D6F Air Flow Sensor

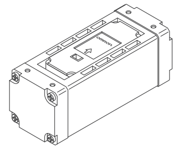

Omron's mass flow sensor will detect flows of 1 ~ 10 Liters per minute up to a 1 ~ 50 Liter per minute version. They use a wide supply voltage range of 10.8 ~ 26.4VDC and will output an analog voltage of 1 ~ 5VDC. Perfect for medical apparatus, fuel cell monitoring and measuring instruments.

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Flow Sensor 0-10 Liters per minute	Z2206-ND	337.50	303.75	270.00	D6F-10A5-000
Flow Sensor 0-20 Liters per minute	Z2207-ND	337.50	303.75	270.00	D6F-20A5-000
Flow Sensor 0-50 Liters per minute	Z2208-ND	337.50	303.75	270.00	D6F-50A5-000
Cable for Air Flow Sensors	Z2209-ND	11.75	10.58	9.40	D6F-CABLE1

D8M Pressure Sensors

Fig. 1

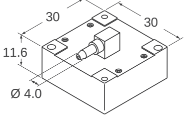

Fig. 2

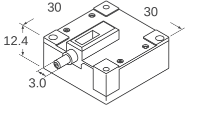

D8M pressure sensors are precise detecting change of air pressure sensors with outputs of either Analog or Digital signals. Perfect for water level monitoring, liquid level monitoring and HVAC changes in the air flow. **Features**: • High Noise Immunity • Pressure Range: D8M-D1 = 0 - 5.88kPa, D8M-A1 = 0 to 4.9Pa • Current Consumption: D8M-D1 = 150mA at output 3VDC, D8M-A1 = 2.5mA • Temperature Range: -30° ~ 70°C • Protection Structure: IP 40 **Characteristics**: • Output Resolution: 0.01kPa/1 pulse • Output Frequency: 150 ~ 450kHz

Fig.	Pressure Type	Range	Output	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Gauge	0 ~ 4.9kPa	Analog	Z2013-ND	55.47	43.97	42.26	D8M-A1
2	Gauge	0 ~ 5.88kPa	Digital	Z2014-ND	83.15	63.35	60.33	D8M-D1
—	Gauge	0 ~ 196.13Pa	Frequency	Z2017-ND	112.85	91.84	87.47	D8M-R1

D7A/D7E Vibration Sensors

Fig. 1 — D7A

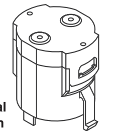

Vertical Shown

Fig. 2 — D7E

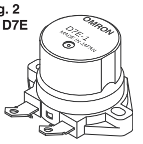

These vibration sensors are perfect for quick detection of movements that could cause damage to equipment or can be used to safely shut down critical operations. Sensors are auto-resettable and require no manual resetting. D7A is a horizontal keeping vibration sensor that is PC mounted. D7E vibration sensors are low cost sealed vibration sensors with various sensitivities. Use these sensors for industrial equipment, cranes, forklifts, industrial manufacturing and boilers. Use in natural gas meter shutoffs, vending machines, conveyor systems, earthquake sensors or any circuits that require safety shutoff during a period of vibration or tilting.

Specifications: • Various sensitivities • Contact Capacity: (D7A) 5µA - 1mA@3VDC; (D7E) 100mA@5-30VDC • Contact Form: (D7A) SPST-NO; (D7E) SPST-NC • Operating Temperature: (D7A) -30°C ~ 70°C, (D7E) -25°C ~ 60°C • Dielectric Strength: AC250V 50/60Hz

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	90-170 gal. Vertical Switch, 1mA	Z2004-ND	25.29	20.95	20.05	D7A-1
	90-170 gal. Horizontal Switch, 1mA	Z2005-ND	25.29	20.95	20.05	D7A-2
	90-170 gal. Chassis Mount Switch, 1mA	Z2006-ND	26.86	22.25	21.29	D7A-3
2	130-200 gal. Vibration Switch, 0.1A	Z2007-ND	9.01	6.90	6.52	D7E-1
	100-170 gal. Vibration Switch, 0.1A	Z2008-ND	6.72	3.88	3.66	D7E-2
	50-80° Tilt Switch, 0.1A	Z2009-ND	9.87	6.77	6.39	D7E-3

D7H Equipment Vibration Sensors

Fig. 1

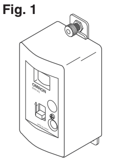

Fig. 2

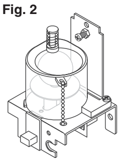

These vibration switches feature a highly durable stainless steel diaphragm that allows detection of very small movements. Used to prevent secondary damage after earthquakes and to replace mercury with a simple mechanical system. Manually resettable, vertically mounted sensor in either an enclosed case or open sensor.

Specifications: • 100-170 gallon, 10A 125VAC, .1A 30VDC • Operating Temperature: -10°C ~ 70°C

Fig.	Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Enclosed Vibration Detection Switch - 10A	Z2010-ND	166.21	135.26	128.82	D7H-A1
2	Open Cased Vibration Detection Switch - 10A	Z2011-ND	54.47	43.18	41.50	D7H-B1
—	Open Cased Vibration Detection Switch - 10A	Z2012-ND	54.47	43.18	41.50	D7H-B2

D6B Tilt Switch

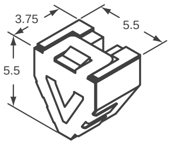

Ideal for equipment tilt detection. Will give you a separate output when tilted left or right. Perfect for signaling a screen to rotate from portrait to landscape view in keeping with product orientation. Can be used in space heaters.

Specifications: • Output Current: 1mA • Operating Temperature: -10°C ~ 60°C **Characteristics**: • Supply Voltage: 2.7V ~ 3.3V • Output High Voltage: Vdd – 0.5V minimum • Output Low Voltage: 0.5V maximum • Current Consumption: 20µA maximum • Operation Angle: 45° ~ 75°

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Micro SMD Tilt Switch - Left/Right	Z2003-ND	14.25	12.83	11.40	D6B-1
Micro SMD Tilt Switch - ROHS Compliant	Z2205-ND	14.25	12.83	11.40	D6B-2

Inductive Proximity Sensors

Fig. 1

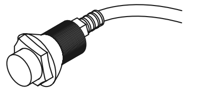

Fig. 2

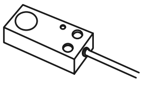

Omron's line of inductive sensors are designed for detecting the presence or absence of ferrous metal close to the sensor and provide an output when detected. Because inductive sensors use electromagnetic fields, they excel over photo type sensors in environments containing water, oil, dust and dirt. Shielded sensors are made with a shielding plate around the ferrite core to focus ferrous metal sensing at the sensors head. It also allows the sensor to be located or mounted close to surrounding metals.

Fig.	Sensing Distance Maximum	Description	Terminal Type	Output Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	0.8mm	4mm Diameter, Short Barrel DC Prox, Stainless Steel, Shielded	3-Wire	NPN	Z1651-ND	78.02	72.24	67.43	E2E-CR8C1
	1mm	M5, Short Barrel DC Prox, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1652-ND	78.02	72.24	67.43	E2E-X1C1
	1mm	5.4mm Diameter, Short Barrel DC Prox, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1653-ND	78.02	72.24	67.43	E2E-C1C1
	1.5mm	M8, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1062-ND	57.15	52.92	49.40	E2E-X1R5E1
	1.5mm	M8, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1063-ND	68.04	63.00	58.80	E2E-X1R5Y1
	2mm	M8, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1064-ND	58.97	54.60	50.96	E2E-X2D1-N
	2mm	M12, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1065-ND	57.15	52.92	49.40	E2E-X2E1
	2mm	M12, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1066-ND	68.04	63.00	58.80	E2E-X2Y1-US
	3mm	M12, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1067-ND	59.88	55.44	51.75	E2E-X3D1-N
	5mm	M18, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1068-ND	58.97	54.60	50.96	E2E-X5E1
	5mm	M18, Short Barrel AC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1069-ND	72.58	67.20	62.72	E2E-X5Y1-US
	7mm	M18, Short Barrel DC Proxy, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1070-ND	61.69	57.12	53.32	E2E-X7D1-N
	10mm	M30, Short Barrel DC Prox, Nickel Plated Brass, Shielded	3-Wire	NPN	Z1654-ND	62.60	57.96	54.10	E2E-X10E1
	10mm	M30, Short Barrel AC Prox, Nickel Plated Brass, Shielded	2-Wire	NPN	Z1655-ND	77.11	71.40	66.64	E2E-X10Y1-US
	1.5mm	M8, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1075-ND	55.34	51.24	47.83	E2F-X1R5E1
	1.5mm	M8, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1076-ND	69.85	64.68	60.37	E2F-X1R5Y1
	2mm	M12, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1078-ND	53.52	49.56	46.26	E2F-X2E1
	2mm	M12, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1079-ND	69.85	64.68	60.37	E2F-X2Y1
	5mm	M18, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1080-ND	54.43	50.40	47.04	E2F-X5E1
	5mm	M18, Short Barrel AC Proxy, Plastic Body, Shielded	2-Wire	NPN	Z1081-ND	71.67	66.36	61.94	E2F-X5Y1-US
	10mm	M30, Short Barrel DC Proxy, Plastic Body, Shielded	3-Wire	NPN	Z1077-ND	65.36	60.53	56.49	E2F-X10E1
2	1.5mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	PNP	Z1082-ND	48.54	44.94	41.95	TL-W1R5MB1
	1.5mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	NPN	Z1083-ND	48.54	44.94	41.95	TL-W1R5MC1
	3mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	NPN	Z1084-ND	51.48	47.67	44.50	TL-W3MC1
	3mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	PNP	Z1189-ND	51.48	47.67	44.50	TL-W3MB1
	5mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	PNP	Z1085-ND	44.00	40.74	38.03	TL-W5MB1
	5mm	Flat Low Profile DC Proxy, Plastic Body, Unshielded	3-Wire	NPN	Z1086-ND	44.00	40.74	38.03	TL-W5MC1
	20mm	Flat Low Profile DC Proxy, Aluminum Body, Unshielded	3-Wire	NPN	Z1660-ND	72.12	66.78	62.33	TL-W20ME1
Mounting Bracket, Fits M8 Size Sensors					Z1656-ND	2.74	2.54	2.37	Y92E-B8
Mounting Bracket, Fits M12 Size Sensors					Z1657-ND	2.74	2.54	2.37	Y92E-B12
Mounting Bracket, Fits M18 Size Sensors					Z1658-ND	2.74	2.54	2.37	Y92E-B18

Panasonic Electric Works

The new name for Aromat

PIR Motion Sensors

MP motion sensors are passive infrared sensors which detect changes in infrared rays when there is movement from a person or object. Intended as human body and animal detection with the world's smallest built-in amplifier design and small size. Perfect for connecting directly into a microprocessor.

Sensor Types: • Standard Detection for most general purpose movement detection • Slight Detection for movements as low as 7.8" • Spot Detection for detecting movements in a much smaller area or focused spot. • 10 Meter Detection for long distance, wide area movement detection

Output Types: • Digital for automated On-Off controls, energy saving for vending machines, ATM's, video games and theme parks • Analog for fine motion detection, slight movements and small detection

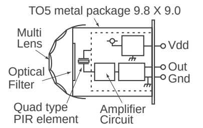

Fig. 1

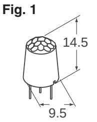

64 Zones

Fig. 2

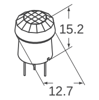

104 Zones

Fig. 3

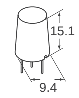

24 Zones

Fig. 4

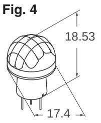

80 Zones

Fig.	Sensor Type	Detection Distance	Output Type	Lens Color	Digi-Key Part No.	Price Each 1	25	Panasonic Part No.
1	Standard Detection	16.4' Max	Digital - 5V	White	255-1812-ND	35.28	32.40	AMN11112
			Digital - 3V Low Power	Black	255-1808-ND	35.28	32.40	AMN41121
			Analog	Black	255-1815-ND	35.28	32.40	AMN21111
			Analog	White	255-1805-ND	35.28	32.40	AMN21112
2	Slight Detection	6.56' Max	Digital - 5V	White	255-1813-ND	38.98	35.80	AMN12112
			Digital - 3V Low Power	Black	255-1809-ND	35.28	32.40	AMN42121
			Analog	Black	255-1816-ND	38.98	35.80	AMN22111
			Analog	White	255-1806-ND	38.98	35.80	AMN22112
3	Spot Detection	16.4' Max	Digital - 5V	White	255-1814-ND	35.28	32.40	AMN13112
			Digital - 3V Low Power	Black	255-1810-ND	35.28	32.40	AMN43121
			Analog	Black	255-1804-ND	35.28	32.40	AMN23111
			Analog	White	255-1807-ND	35.28	32.40	AMN23112
4	10 meter Detection	32.8' Max	Digital - 5V	White	255-1803-ND	38.54	35.40	AMN14112
			Digital - 3V Low Power	Black	255-1811-ND	38.54	35.40	AMN44121
			Analog	Black	255-1817-ND	38.54	35.40	AMN24111
			Analog	White	255-1818-ND	38.54	35.40	AMN24112

Honeywell
Sensing and Control

Optical Sensors

Fig. 1

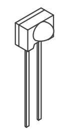

Fig. 2

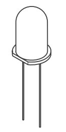

Fig. 3

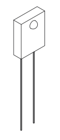

Fig. 4

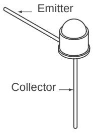

Fig. 5

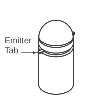

Fig. 6

Fig. 7

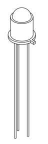

Fig. 8

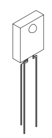

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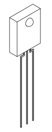

Fig. 10

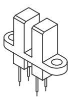

Fig. 11

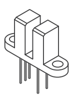

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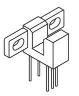

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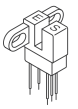

Fig. 14

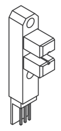

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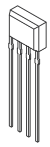

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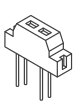

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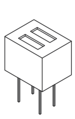

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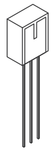

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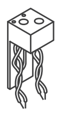

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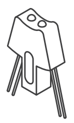

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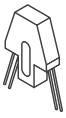

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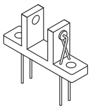

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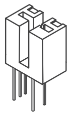

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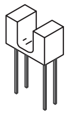

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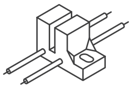

Infrared Light Emitting Diodes

Fig.	Style/ Pkg.	VCEO (V)	IC (mA)	Peak Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
					AlGaAs				
1	Side-view	1.7	50	880nm	480-1968-ND	1.39	1.15	1.00	SEP8736-002
		1.7	50	880nm	480-1969-ND	1.49	1.24	1.07	SEP8736-003
2	T-1	1.7	50	880nm	480-1965-ND	1.49	1.24	1.07	SEP8705-003
3	Side-view	1.7	50	880nm	480-1966-ND	1.14	.95	.82	SEP8706-002
		1.7	50	880nm	480-1967-ND	1.22	1.01	.88	SEP8706-003
4	Coaxial	1.8	50	880nm	480-1977-ND	4.26	3.20	3.16	SE1470-003L
		1.8	50	880nm	480-1978-ND	4.37	3.28	3.24	SE1470-004L
5	Mini-pill	1.8	75	880nm	480-1980-ND	2.35	1.77	1.74	SE2470-002
6	TO-46	1.9	100	880nm	480-1981-ND	3.60	2.70	2.67	SE3470-003
		1.9	100	880nm	480-1983-ND	3.43	2.58	2.54	SE5470-003
		1.9	100	880nm	480-1984-ND	3.49	2.62	2.59	SE5470-004
					GaAs				
2	T-1	1.5	50	935nm	480-1961-ND	1.35	1.12	.97	SEP8505-002
3	Side-view	1.5	50	935nm	480-1962-ND	.95	.79	.68	SEP8506-001
		1.5	50	935nm	480-1963-ND	1.07	.90	.78	SEP8506-002
		1.5	50	935nm	480-1964-ND	1.14	.95	.82	SEP8506-003
4	Coaxial	1.6	50	935nm	480-1976-ND	3.88	2.91	2.88	SE1450-003L
5	Mini-pill	1.6	75	935nm	480-1979-ND	2.06	1.55	1.53	SE2460-003
6	TO-46	1.7	100	935nm	480-1982-ND	3.06	2.30	2.27	SE5455-003

NPN Silicon Phototransistors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
					Silicon				
1	Transistor	30	10.0	15	480-1957-ND	1.22	1.01	.88	SDP8436-002
		30	17.5	15	480-1958-ND	1.22	1.01	.88	SDP8436-003
2	Transistor	30	14	15	480-1951-ND	1.26	1.05	.91	SDP8405-002
		30	24	15	480-1952-ND	1.35	1.12	.97	SDP8405-003
		30	0.92	15	480-1953-ND	1.41	1.17	1.02	SDP8405-013
		30	1.85	15	480-1954-ND	1.26	1.05	.91	SDP8405-014
3	Transistor	30	3.60	15	480-1955-ND	.95	.79	.68	SDP8406-002
		30	6.50	15	480-1956-ND	.95	.79	.68	SDP8406-003
4	Transistor	30	3.0	15	480-1970-ND	3.49	2.62	2.59	SD1440-003L
5	Transistor	30	4.0	15	480-1971-ND	1.97	1.48	1.46	SD2440-003
		30	7.0	15	480-1972-ND	2.02	1.52	1.50	SD2440-004
7	Transistor	30	8.0	2	480-1973-ND	3.33	2.50	2.47	SD5491-004
					Low Light Rejection				
3	Transistor	30	6.0	15	480-1959-ND	1.07	.90	.78	SDP8476-201

Optoschmitt Detectors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (ns)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
7	TTL	16	18	60/15	480-1974-ND	3.85	2.89	2.85	SD5600-001
		16	18	60/15	480-1975-ND	3.80	2.85	2.82	SD5620-001
8	TTL	12	18	60/15	480-1960-ND	2.19	1.82	1.58	SDP8600-001
					Open-Collector Output				
9	TTL	12	15	7	480-1950-ND	3.04	2.53	2.19	SDP8314-301

Slotted Optoschmitt Sensors

Fig.	Output Type	Vcc (V)	Max. Output Current (mA)	Rise/ Fall (ns)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
					Transmissive				
10	Diode	7	15	70	480-1945-ND	5.98	5.38	4.85	HOA6990-T51
11	Transistor	10	10	60/15	480-1933-ND	3.57	3.22	2.90	HOA0961-N51
	Transistor	10	10	60/15	480-1934-ND	3.57	3.22	2.90	HOA0971-N51
	Open Collector	12	15	70	480-1943-ND	4.49	4.04	3.64	HOA6961-T51
12	Schmitt Trigger	12	12	60/15	480-1941-ND	4.34	3.91	3.52	HOA2004-001
13	Transistor	12	12	60/6	480-1942-ND	7.45	6.71	6.04	HOA2005-001
14	Totem Pole	7	15	70	480-1944-ND	3.73	3.36	3.03	HOA6972-N55
		12	15	70	480-1946-ND	5.91	5.32	4.80	HOA6991-T55
					Connectorized Transmissive				
14	Totem Pole	5.5	40	70	480-1947-ND	7.71	6.94	6.25	HOA7720-M22
					Encoder Detector				
15	Inverting Logic	5.5	7	100	480-1949-ND	3.30	2.74	2.38	HLC2701-001

Reflective Object Sensors

Fig.	Output Type	VCC (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
16	Transistor	30	30	15	480-1928-ND	3.21	2.89	2.61	HOA0149-001
17	Transistor	30	30	15	480-1935-ND	3.21	2.89	2.61	HOA1397-002
	Darlington	15	30	75	480-1936-ND	3.27	2.94	2.65	HOA1397-032
18	Transistor	30	30	15	480-1948-ND	2.56	2.13	1.85	HLC1395-001
19	Transistor	30	30	15	480-1985-ND	11.78	10.61	9.56	HOA1180-002
20	Transistor	30	30	15	480-1986-ND	9.84	8.86	7.98	HOA1404-002
21	Transistor	30	0.2	15	480-1987-ND	3.63	3.27	2.94	HOA1405-001
		30	0.8	15	480-1988-ND	3.67	3.31	2.98	HOA1405-002
					Transmissive				
22	Transistor	30	30	15	480-1989-ND	7.24	6.52	5.88	HOA1877-001

Slotted Optical Sensors

Fig.	Output Type	VCC (V)	Max. Output Current (mA)	Rise/ Fall (µs)	Digi-Key Part No.	Price Each 1	100	250	Honeywell Part No.
10	Transistor	30	15	15	480-1939-ND	5.05	4.55	4.10	HOA1881-012
		30	30	15	480-1931-ND	4.54	4.09	3.69	HOA0890-L51
11	Transistor	30	30	15	480-1938-ND	4.03	3.63	3.27	HOA1879-015
11	Transistor	30	30	15	480-1929-ND	2.70	2.44	2.19	HOA0866-T55
		30	30	15	480-1930-ND	3.16	2.85	2.57	HOA0875-N51
24	Transistor	30	82	15	480-1940-ND	2.40	2.16	1.95	HOA1882-012
25	Transistor	30	30	15	480-1937-ND	6.23	5.61	5.05	HOA1870-031
					Transmissive Encoder				
23	TTL	5.5	12	20µs	480-1932-ND	6.90	6.22	5.60	HOA0902-011

Panasonic Electric Works
The new name for Aromat

NEW! Light Sensor — NaPiCa

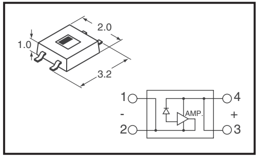

FEATURES: • Built-in optical filter for spectral response similar to that of the human eye • Photocurrent is proportional to illumination (linear output) • Uses environmentally friendly silicon chips • operates on 1.5 to 6V DC, which is suitable for battery operation. **APPLICATIONS:** • Brightness detection for LCD backlight control for LCD devices (mobile phones, LCD TV's, Car navigation systems, mobile PC's and PDAs) • Brightness detection for circuits in household lighting, crime prevention lighting and automatic lighting for bicycle • Brightness detection for surveillance cameras (night switching) **RATINGS:** • **Photocurrent:** 5mA • **Operating Temperature:** -30°C ~ 85°C • **Reverse Voltage:** Min. 1.5V, Max. 6V • **Dark Current:** .3µA @ 5V.

Description	Digi-Key Part Number	Cut Tape Price Each 1	25	50	Digi-Key Part No.	Tape and Reel Pricing 3,000	Panasonic Part No.
Cadmium Free Light Sensor with Spectral Response, 4SOP SMT	255-1848-1-ND	2.13	1.96	1.74	255-1848-2-ND	1218.00/M	AMS104Y

TT electronics
OPTEK Technology

Switches

Fig. 1

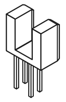

Fig. 2

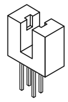

Fig. 3

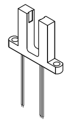

Fig. 4

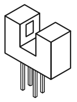

Fig. 5

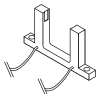

Fig. 6

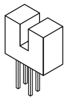

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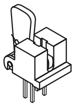

Fig. 8

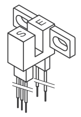

Fig. 9

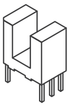

Fig. 10

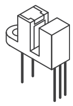

Fig. 11

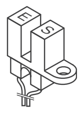

Fig. 12

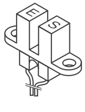

Fig. 13

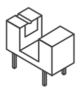

Fig. 14

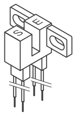

Fig. 15

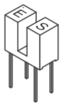

Fig. 16

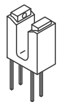

Fig. 17

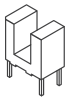

Fig. 18

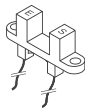

Fig. 19

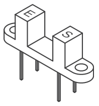

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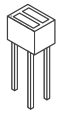

Fig. 21

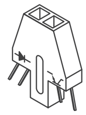

Fig. 22

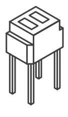

Fig.	Output Type	Slot Width Inch (mm)	Lead Spacing Inch (mm)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
Slotted Optical								
1	Transistor	.200 (5.08)	.325 (8.26)	365-1008-ND	1.62	1.18	1.10	OPB620
2	Transistor	.160 (4.06)	.310 (7.87)	365-1017-ND	2.04	1.48	1.37	OPB804
3	Transistor	.20 (5.08)	—	365-1018-ND	7.01	5.10	4.72	OPB817
4	Transistor	.210 (5.33)	.410 (10.41)	365-1019-ND	2.45	1.78	1.65	OPB818
5	Transistor	1.26 (32)	—	365-1020-ND	9.79	7.12	6.59	OPB819
6	Transistor	.210 (5.33)	.310 (7.87)	365-1021-ND	2.17	1.58	1.47	OPB848
8	Transistor	.125 (3.18)	.320 (8.13)	365-1234-ND† ***NEW!***	8.94	6.50	6.02	OPB941W51Z
9	Photologic	.200 (5.08)	.320 (8.13)	365-1090-ND	1.95	1.42	1.32	OPB625
	Photologic	.125 (3.18)	.320 (8.13)	365-1111-ND	4.54	3.30	3.06	OPB970N11
	Photologic	.125 (3.18)	.320 (8.13)	365-1113-ND	3.80	2.76	2.56	OPB973N51
10	Photologic	.125 (3.18)	.320 (8.13)	365-1087-ND	3.69	2.68	2.48	OPB460L11
11	Phototransistor	.125 (3.18)	—	365-1107-ND	6.71	4.88	4.52	OPB880P51
12	Photologic	.130 (3.30)	—	365-1114-ND	7.81	5.68	5.26	OPB990T55
	Photologic	.130 (3.30)	—	365-1246-ND† ***NEW!***	5.86	4.26	3.95	OPB990T55Z
	Phototransistor	.125 (3.18)	—	365-1235-ND† ***NEW!***	6.68	4.86	4.50	OPB891T51Z
13	Phototransistor	.205 (5.21)	.380 (9.65)	365-1105-ND	2.50	1.82	1.69	OPB855
14	Phototransistor	.125 (3.18)	—	365-1100-ND	7.23	5.26	4.87	OPB830W55
	Phototransistor	.125 (3.18)	—	365-1102-ND	9.24	6.72	6.22	OPB840W11
	Phototransistor	.125 (3.18)	.320 (8.13)	365-1101-ND	3.80	2.76	2.56	OPB840L11
	Phototransistor	.125 (3.18)	—	365-1103-ND	7.26	5.28	4.89	OPB841W55
15	Phototransistor	.130 (3.300	.225 (5.72)	365-1106-ND	4.02	2.92	2.71	OPB865N11
16	Phototransistor	.160 (4.06)	.300 (7.62)	365-1099-ND	2.04	1.48	1.37	OPB825
17	Phototransistor	.160 (4.06)	.280 (7.12)	365-1089-ND	1.62	1.18	1.10	OPB610
19	Photologic	.125 (3.18)	.320 (8.13)	365-1112-ND	3.69	2.68	2.48	OPB970T55
Slotted Optical Flag								
7	Transistor	.090 (2.16)	.280 (7.11)	365-1009-ND	2.94	2.14	1.98	OPB680
Wide Gap Slotted Optical								
18	Phototransistor	.375 (9.53)	—	365-1096-ND	7.12	5.18	4.80	OPB810W51
	Phototransistor	.375 (9.53)	—	365-1098-ND	6.79	4.94	4.57	OPB811W55
19	Phototransistor	.375 (9.53)	.570 (14.48)	365-1094-ND	3.05	2.22	2.06	OPB800L55
	Phototransistor	.375 (9.53)	.570 (14.48)	365-1095-ND	3.14	2.28	2.11	OPB810L51
	Phototransistor	.375 (9.53)	.570 (14.48)	365-1097-ND	3.00	2.18	2.02	OPB811L55
Reflective Object Sensors								
20	Photodarlington	—	—	365-1093-ND	3.47	2.52	2.34	OPB707A
	Phototransistor	—	—	365-1092-ND	2.70	1.96	1.82	OPB706A
21	Phototransistor	—	—	365-1091-ND	3.41	2.48	2.30	OPB704
22	Phototransistor	—	—	365-1088-ND	1.62	1.18	1.10	OPB606A

† ***RoHS Compliant***

Sensors

Fig. 1

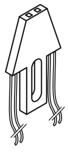

Fig. 2

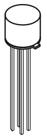

Fig. 3

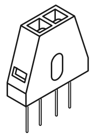

Fig. 4

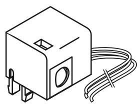

Fig. 5

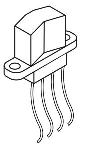

Fig. 6 — N Package ***NEW!***

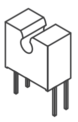

Fig. 7— T Package ***NEW!***

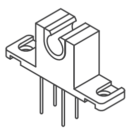

Reflective Object Sensors

Fig.	Continuous Forward Curr. (mA)	Reverse DC Voltage	V (BR)ECO Voltage (Min.)	Min. Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
1	100	2.0	5.0	4.0" (101.6)	365-1010-ND	13.56	9.86	9.13	OPB700
	100	2.0	5.0	18.0" (457.2)	365-1011-ND	18.01	13.10	12.12	OPB701AL
2	50	3.0	5.0	—	365-1012-ND	7.89	5.74	5.31	OPB710
3	40	2.0	5.0	—	365-1014-ND*	2.97	2.16	2.00	OPB742
	40	2.0	5.0	—	365-1015-ND*	3.71	2.70	2.50	OPB745

* Collector Emitter Voltage 30V - OPB742 and 15V - OPB745

Photologic® Reflective Object Sensors

Fig.	Operating DC Supply Voltage	Min. Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
4	4.75 - 5.25	18.0" (457.2)	365-1013-ND	11.77	8.56	7.92	OPB716
5	4.75 - 5.25	12.0" (304.8)	365-1016-ND	12.29	8.94	8.27	OPB770T

NEW! Liquid Tube Sensors

Fig.	Continuous Forward Curr. (mA)	Reverse DC Voltage	V (BR)ECO Voltage (Min.)	Min. Lead Wire Length Inch (mm)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
6	50	2.0	30	.330" (8.38)	365-1236-ND	6.55	4.76	4.41	OPB350
	50	2.0	25	.330" (8.38)	365-1237-ND	6.99	5.08	4.70	OPB350L187
	50	2.0	25	.330" (8.38)	365-1238-ND	6.99	5.08	4.70	OPB350L250
7	50	2.0	25	.945" (24)	365-1239-ND	9.13	6.64	6.15	OPB350W187Z
	50	2.0	25	.945" (24)	365-1240-ND	9.13	6.64	6.15	OPB350W250Z

TT electronics
OPTEK Technology

Infrared Emitters and Receivers

Fig. 1
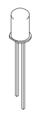

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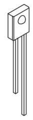

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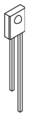

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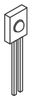

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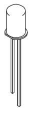

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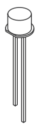

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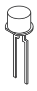

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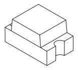

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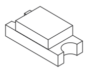

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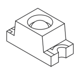

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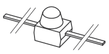

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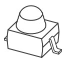

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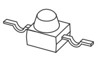

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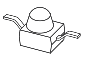

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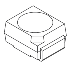

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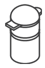

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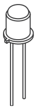

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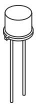

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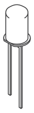

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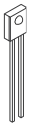

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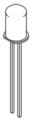

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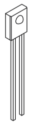

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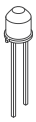

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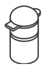

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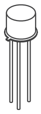

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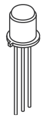

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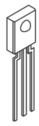

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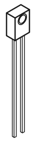

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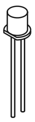

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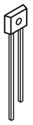

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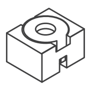

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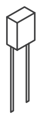

Infrared Light Emitting Diodes

Fig.	Style/ Pkg.	Pulse Forward Current	Optical Power Output	Peak Emission Wavelength	Beam Angle	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
				Plastic						
1	T-1 3/4	5.0A	44mW/cm^2	890nm	20°	365-1061-ND	1.08	.63	.60	OP295A
	T-1 3/4	5.0A	77mW/cm^2	890nm	20°	365-1062-ND	1.08	.63	.60	OP295B
	T-1 3/4	1.0A	0.70mW/cm^2	890nm	20°	365-1063-ND	1.08	.63	.60	OP297A
	T-1 3/4	5.0A	210mW/cm^2	890nm	50°	365-1056-ND	1.08	.63	.60	OP290A
	T-1 3/4	5.0A	16mW/cm^2	890nm	50°	365-1057-ND	1.08	.63	.60	OP291A
	TO-46	2.0A	16mW/cm^2	890nm	60°	365-1058-ND	.96	.56	.54	OP293A
	TO-46	2.0A	13mW/cm^2	890nm	60°	365-1059-ND	.96	.56	.54	OP293B
	TO-46	2.0A	3.0mW/cm^2	890nm	25°	365-1064-ND	.96	.56	.54	OP298A
	TO-46	2.0A	2.4mW/cm^2	890nm	25°	365-1065-ND	.96	.56	.54	OP298B
	T-1	3.0A	2.70mW/cm^2	890nm	18°	365-1054-ND	1.29	.76	.72	OP265A
2	Side-View	3.0A	0.60mW/cm^2	890nm	40°	365-1052-ND	1.02	.60	.57	OP240A
	Side-View	3.0A	0.60mW/cm^2	890nm	40°	365-1053-ND	1.08	.63	.60	OP245A
	Side-View	3.0A	0.40mW/cm^2	935nm	40°	365-1043-ND	1.02	.60	.57	OP140A
3	Side-View	3.0A	0.30mW/cm^2	935nm	40°	365-1044-ND	1.02	.60	.57	OP140B
4	Side-View	3.0A	0.40mW/cm^2	935nm	40°	365-1045-ND	1.05	.62	.59	OP145A
5	T-1	3.0A	1.95mW/cm^2	935nm	18°	365-1046-ND	1.14	.67	.64	OP165A
	T-1	3.0A	0.85mW/cm^2	935nm	18°	365-1047-ND	1.14	.67	.64	OP165C
	T-1	3.0A	1.95mW/cm^2	935nm	18°	365-1049-ND	1.29	.76	.72	OP166A
6	T-1	3.0A	0.50mW	935nm	90°	365-1048-ND	1.26	.74	.70	OP165W
7	T-1	3.0A	1.00mW	890nm	90°	365-1055-ND	1.29	.76	.72	OP266W

Fig.	Style/ Pkg.	Pulse Forward Current	Optical Power Output	Peak Emission Wavelength	Beam Angle	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
				SMT Plastic						
8	0805	50mA	0.2mW/cm^2	880nm	150°	365-1147-1-ND• ◊	.42	.28	.25	OP200
						365-1147-2-ND• †		575.40/3,000		OP200
9	1206	50mA	0.2mW/cm^2	880nm	150°	365-1148-1-ND• ◊	.45	.30	.27	OP250
						365-1148-2-ND• †		411.60/2,000		OP250
10	1206	50mA	0.3mW/cm^2	880nm	105°	365-1149-1-ND• ◊	.45	.30	.27	OP251
						365-1149-2-ND• †		411.60/2,000		OP251
11	Axial	50mA	1.5mW/cm2	880nm	25°	365-1150-ND•	.51	.30	.29	OP270
12	Gull Wing	50mA	1.5mW/cm^2	880nm	25°	365-1151-1-ND• ◊	.51	.30	.29	OP271
						365-1151-2-ND• †		239.40/1,000		OP271
13	Yoke	50mA	1.5mW/cm^2	880nm	25°	365-1152-1-ND• ◊	.51	.30	.29	OP272
						365-1152-2-ND• †		239.40/1,000		OP272
14	Rev. Gull Wing	50mA	1.5mW/cm^2	880nm	25°	365-1153-1-ND• ◊	.51	.30	.29	OP273
						365-1153-2-ND• †		239.40/1,000		OP273
15	PLCC	50mA	0.5mW/cm^2	880nm	100°	365-1154-1-ND• ◊	.52	.35	.31	OP280
						365-1154-2-ND• †		487.20/2,000		OP280
				Hermetically Sealed						
16	PC Mount	1.0A	1.00mW/cm^2	935nm	24°	365-1040-ND	1.89	1.11	1.05	OP124
	PC Mount	1.0A	3.50mW/cm^2	890nm	24°	365-1050-ND	2.22	1.30	1.23	OP224
17	TO-46	10.0A	4.0mW	935nm	18°	365-1041-ND	2.61	1.53	1.45	OP132
	TO-46	10.0A	5.0mW	935nm	18°	365-1042-ND	2.61	1.53	1.45	OP133
18	TO-46	10.0A	5.0mW/cm2	890nm	50°	365-1051-ND	2.94	1.72	1.63	OP233W

• ***RoHS Compliant*** ◊ Cut Tape † Tape and Reel

PIN Silicon Photodiode

Fig.	Style/ Pkg.	V_R	Peak Sensitivity Wavelength	tr/tf	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
19	T-1	60V	935nm	5ns	365-1084-ND	.68	.56	.52	OP906
	T-1 3/4	60V	890nm	5ns	365-1086-ND	.84	.69	.63	OP999
20	Side-View	60V	935nm	5ns	365-1085-ND	.70	.58	.53	OP950

Infrared NPN Phototransistors

Fig.	Style/ Pkg.	V_{CEO}	I_C	Peak Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
				SMT Phototransistor					
9	1206	30V	0.5mA	935nm	365-1155-1-ND• ◊	.42	.28	.25	OP520
					365-1155-2-ND• †		386.40/2,000		OP520
9	1206	30V	0.5mA	935nm	365-1156-1-ND• ◊	.42	.28	.25	OP521
					365-1156-2-ND• †		386.40/2,000		OP521
10	1206	30V	1.0mA	935nm	365-1157-1-ND• ◊	.42	.28	.25	OP522
					365-1157-2-ND• †		386.40/2,000		OP522
11	Axial	30V	5.0mA	935nm	365-1158-ND•	.49	.29	.27	OP570
12	Gull Wing	30V	5.0mA	935nm	365-1159-1-ND• ◊	.49	.29	.27	OP571
					365-1159-2-ND• †		226.80/1,000		OP571
13	Yoke	30V	5.0mA	935nm	365-1160-1-ND• ◊	.49	.29	.27	OP572
					365-1160-2-ND• †		226.80/1,000		OP572
14	Rev. Gull Wing	30V	5.0mA	935nm	365-1161-1-ND• ◊	.49	.29	.27	OP573
					365-1161-2-ND• †		226.80/1,000		OP573
15	PLCC	30V	1.5mA	935nm	365-1162-1-ND• ◊	.57	.38	.34	OP580
					365-1162-2-ND• †		520.80/2,000		OP580
				Phototransistor					
1	T-1 3/4	30V	2.35mA	890nm	365-1077-ND	.68	.56	.52	OP599A
21	T-1	30V	4.30mA	935nm	365-1066-ND	.62	.51	.47	OP505A
	T-1	30V	2.15mA	935nm	365-1067-ND	.62	.51	.47	OP505B
	T-1	30V	4.30mA	935nm	365-1068-ND	.77	.63	.58	OP506A
	T-1	30V	2.15mA	935nm	365-1069-ND	.77	.63	.58	OP506B
22	Side-View	30V	2.55mA	935nm	365-1070-ND	.70	.58	.53	OP550A
	Side-View	30V	1.30mA	935nm	365-1071-ND	.70	.58	.53	OP550B
	Side-View	30V	0.25mA	935nm	365-1072-ND	.70	.58	.53	OP550C
23	TO-18	30V	3.0mA	890nm	365-1074-ND	.70	.58	.53	OP593A
	TO-18	30V	7.5mA	890nm	365-1075-ND	.70	.58	.53	OP598A
	TO-18	30V	5.0mA	890nm	365-1076-ND	.70	.58	.53	OP598B
24	PC Mount	25V	7.0mA	890nm	365-1078-ND	1.61	1.32	1.21	OP644SL
25	TO-18	30V	0.5mA	890nm	365-1079-ND	1.96	1.61	1.47	OP801WSL
	TO-18	30V	2.5mA	890nm	365-1080-ND	1.96	1.61	1.47	OP802WSL
26	TO-18	30V	7.0mA	890nm	365-1081-ND	2.22	1.82	1.67	OP804SL
	TO-18	30V	15.0mA	890nm	365-1082-ND	2.22	1.82	1.67	OP805SL
				Photodarlington					
20	Side-View	15V	1.1mA	935nm	365-1073-ND	1.25	1.03	.95	OP560C
25	TO-18	15V	4mA	890nm	365-1083-ND	2.38	1.95	1.79	OP830WSL

• ***RoHS Compliant*** ◊ Cut Tape † Tape and Reel

Fig.	Style/ Pkg.	Output	Sensitivity Wavelength	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
			Photologic					
27	Side-View	TTL/LSTTL	935nm	365-1115-ND	1.98	1.44	1.34	OPL550
	Side-View	TTL/LSTTL	935nm	365-1116-ND	2.09	1.52	1.41	OPL550-OCA

Infrared Light-Emitting Diodes

• Reverse Voltage: 2.0V • Rise/Fall Time: 10ns

Fig.	Style/ Package	Continuous Forward DC Current (mA)	Peak Emission (nm)	Apertured Irrad. Min. / Max. (mW / cm^2)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
28	Side View	50	850	.10 / .90	365-1005-ND	2.52	1.47	1.40	OP245PS
29	T-1	50	850	.055 / .55	365-1006-ND	2.04	1.19	1.13	OP245PS
30	End-Looking	50	850	.10 / .90	365-1007-ND	1.95	1.14	1.08	OP268FPS

VCSEL Infrared Emitting Laser Diodes

Fig.	Style/ Package	Peak Current Forward	Optical Power Output	Peak Emission Wavelength	Beam Divergence	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
24	Pill Pack Flat	20mA	1.5mW	860nm	20°	365-1141-ND	5.96	4.10	3.73	OPV320
28	Lateral Convex	20mA	1.5mW	850nm	6°	365-1146-ND•	6.00	4.13	3.75	OPV382
31	SOT-23 Flat	30mA	1.1mW	850nm	12°	365-1122-ND	15.75	13.92	13.62	OPV240
32	Plastic Lateral Flat	30mA	1.4~4.5mW	850nm	12°	365-1123-ND	7.58	5.22	4.74	OPV280
	Lateral Flat	20mA	1.5mW	850nm	20°	365-1145-ND•	5.82	4.01	3.64	OPV380

• ***RoHS Compliant***

LUMEX Infrared LEDs

Fig. 1

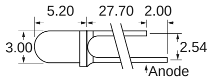

Fig. 2

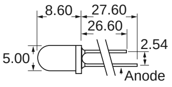

Fig.	LED Dia. (mm)	Peak Wave-Length	Lens Color	Oper. Curr. (mA)	Typ. Forward Voltage	Digi-Key Part No.	Price Each 1	10	100	Lumex Part No.
1	3	940 nm	Clear	60	1.2	67-1000-ND	.25	.23	.20	OED-EL-8L
2	5	940 nm	Clear	100	1.5	67-1001-ND	.27	.25	.22	OED-EL-1L2

Panasonic Photo Interrupter

Fig. 1

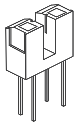

Fig. 2

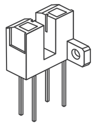

Fig. 3

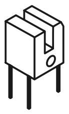

Fig. 4

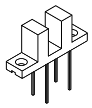

Fig. 5

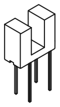

Fig. 6

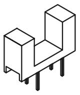

Fig. 7

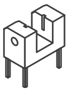

Photo Interrupters are a transmissive photosensor series in which a high efficiency GaAs infrared light emitting diode is used as the light emitting element, and a high sensitivity phototransistor is used as the light detecting element. The two elements are arranged so as to face each other, and objects passing between them are detected.

Fig.	Sensing Method	Sensing Distance	Terminal Type	Typ. t_{on}/t_{off} (µsec.)	Digi-Key Part No.	Price Each 1	10	100	Panasonic Part No.
1	Slot	3mm	PC Board	5/5	CNZ1021-ND	1.39	1.16	.93	CNZ1021
2	Slot	3mm	PC Board	5/5	CNZ1023-ND	1.33	1.07	.80	CNZ1023
3	Slot	0.9mm	PC Board	35/35	CNZ1002-ND	.87	.73	.59	CNZ1002
	Slot	1.2mm	PC Board	35/35	CNA1303K-ND	.87	.73	.59	CNA1303K
	Slot	2mm	PC Board	35/35	CNA1302K-ND	.87	.73	.59	CNA1302K
4	Slot	5mm	PC Board	6/6	CNZ1111-ND	2.65	2.12	1.65	CNZ1111
5	Slot	5mm	PC Board	6/6	CNZ1112-ND	2.02	1.62	1.22	CNZ1112
6	Slot	10mm	PC Board	6/6	CNZ1120-ND	1.86	1.49	1.12	CNZ1120
7	Slot	1.0mm	PC Board	50/50	CNA1311K0TLC-ND	1.04	.87	.70	CNA1311K0TLC
	Slot	2.0mm	PC Board	50/50	CNA1312K0TLC-ND	.98	.82	.66	CNA1312K0TLC

ROHM Optical Sensors

Fig. 1

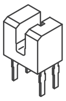

Fig. 2

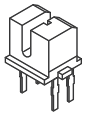

Fig. 3

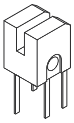

Fig. 4

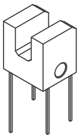

Fig. 5

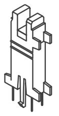

Fig. 6

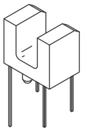

Fig. 7

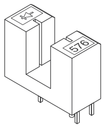

Fig. 8

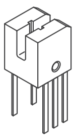

Fig. 9

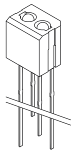

Fig. 10

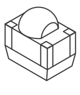

Fig. 11

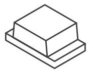

Fig. 12

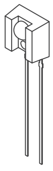

Fig. 13

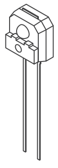

Fig. 14

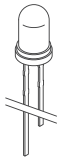

Optical Interrupters

Fig.	Output Type	Slot Width (mm)	Response Time (tr/tf) (µs)	Max. Output Current (mA)	Digi-Key Part No.	Pricing 1	10	100	Rohm Part No.
1	NPN	1.0	10/10	30	511-1336-ND	1.41	8.71	63.72	RPI-121
	NPN	1.0	10/10	30	511-1338-ND*	1.24	7.25	49.58	RPI-124F
	NPN	2.0	10/10	30	511-1347-ND*	1.18	6.90	47.22	RPI-221A
	NPN	2.0	10/10	30	511-1348-ND	1.18	6.90	47.22	RPI-222
	NPN	4.0	10/10	30	511-1341-ND	1.18	6.90	47.22	RPI-411C1
2	NPN	.8	10/10	30	511-1337-ND*	1.41	8.71	63.72	RPI-122F
3	NPN	1.2	10/10	30	511-1339-ND	1.41	8.71	63.72	RPI-131
	NPN	2.0	10/10	30	511-1349-ND	1.13	6.97	50.98	RPI-243
4	NPN	2.0	10/10	30	511-1350-ND	1.24	7.25	49.58	RPI-246
5	NPN	3.0	10/10	30	511-1340-ND	.97	5.69	38.96	RPI-303
6	NPN	3.0	10/10	30	511-1351-ND	1.24	7.25	49.58	RPI-352
7	NPN	5.0	10/10	30	511-1352-ND*	1.69	10.45	76.47	RPI-576A
8	Photo IC	1.1	5/.05	10	511-1342-ND	2.00	12.99	99.42	RPI-1133

Photoreflectors

Fig.	Style/ Pkg.	Maximum Output Current (mA)	V_f (V)	Emitting Wave-length	Digi-Key Part No.	Pricing 1	10	100	Rohm Part No.
9	Top	30	1.34	800	511-1366-ND	2.32	15.07	115.32	RPR-220

Phototransistors

Fig.	Output Type	Style/ Pkg.	Max. Output Current (mA)	Peak Sensitivity Wavelength (nm)	Digi-Key Part No.	Pricing 1	10	100	Rohm Part No.
10	NPN	SMT	20	800	511-1355-1-ND*	1.06	6.21	42.50	RPM-012PBT87F
	NPN	SMT	20	800	511-1355-2-ND*	317.00/1,000			RPM-012PBT87F
11	NPN	SMT	10	600	511-1356-1-ND	1.06	6.21	42.50	RPM-075PTT86
	NPN	SMT	10	600	511-1356-2-ND	909.00/3,000			RPM-075PTT86
12	NPN	Side View	30	800	511-1353-ND*	.65	3.80	25.97	RPM-20PBF
13	NPN	Side View	30	800	511-1354-ND*	.71	4.14	28.33	RPM-22PBF
14	NPN	Top	30	800	511-1357-ND*	.65	3.80	25.97	RPT-34PB3FF
	NPN	T1	30	800	511-1358-ND*	.83	4.83	33.05	RPT-37PB3FF
	NPN	T1	30	800	511-1359-ND*	.83	4.83	33.05	RPT-38PB3FF

Infrared Emitters

Fig.	Style/ Pkg.	I_f Max. (mA)	V_f (V)	Emitting Wave-length (nm)	Digi-Key Part No.	Pricing 1	10	100	Rohm Part No.
10	Diode	SMT	40	950	511-1360-1-ND*	1.08	6.31	43.21	SIM-012STT87
12	Side View	50	1.3	950	511-1361-ND*	.89	5.18	35.41	SIM-20STF
13	Side View	50	1.3	950	511-1362-ND*	.89	5.18	35.41	SIM-22STF
14	T1	100	1.3	950	511-1363-ND*	.57	3.20	20.78	SIR-34ST3FF
	T1 3/4	100	1.3	950	511-1364-ND*	.57	3.20	20.78	SIR-56ST3FF
	T1	75	1.2	940	511-1343-ND*	1.06	6.21	42.50	SIR-320ST3FF
	T1	75	1.3	940	511-1344-ND*	.89	5.18	35.41	SIR-341ST3FF
	T1 3/4	100	1.38	950	511-1345-ND*	.77	4.49	30.69	SIR-505STA47F
	T1 3/4	100	1.34	940	511-1365-ND*	.50	2.80	18.18	SIR-563ST3FF
	T1 3/4	100	1.6	850	511-1346-ND*	1.96	12.73	97.43	SIR-568ST3FF

* *RoHS Compliant*

Melexis
Microelectronic Integrated Systems

Hall Effect Sensor ICs — US Series

Features: • Maximum Output Current: 50mA • Chopper stabilized amplifier stage • miniature package/thin, high reliability package
Temperature Suffix: **E:** -40°C ~ 85°C (Commercial), **L:** -40°C ~ 150°C (Automotive)

Package	Supply Voltage	Operating Point (mT) Min.	Operating Point (mT) Typ.	Operating Point (mT) Max.	Release Point (mT) Min.	Release Point (mT) Typ.	Release Point (mT) Max.	Output Type	Oper.† Type	Temperature Range	Digi-Key Part No.	Price Each 1	10	25	50	100	Tape & Reel * Pricing 3,000
TSOT-3L	3.5 ~ 24	1.0	5.0	9.0	-9.0	-5.0	-1.0	Open Collector	Bidirectional	-40°C ~ 85°C	US1881ESECT-ND◊ ***NEW!***	1.51	1.18	.91	.70	.54	405.00/M
UA-92(flat)											US1881EUA-ND	1.30	1.01	.78	.60	.47	—
SOT-23										-40°C ~ 150°C	US1881LSOCT-ND	1.66	1.29	1.00	.77	.60	443.90/M
UA-92(flat)											US1881LUA-ND	1.44	1.12	.87	.67	.52	—
SOT-23	3.5 ~ 24	0.5	2.0	4.5	-4.5	-2	-0.5	Open Collector	Bidirectional	-40°C ~ 85°C	US2881ESOCT-ND	1.94	1.52	1.17	.90	.70	521.10/M
UA-92(flat)											US2881EUA-ND	1.73	1.35	1.04	.80	.62	—
SOT-23										-40°C ~ 150°C	US2881LSOCT-ND	2.09	1.63	1.26	.97	.75	559.70/M
UA-92(flat)											US2881LUA-ND	1.87	1.46	1.13	.87	.67	—
SOT-23	3.5 ~ 24	-2.0	2.0	6.0	-6.0	-2.0	2.0	Open Collector	Bidirectional	-40°C ~ 85°C	US2882ESOCT-ND	1.73	1.35	1.04	.80	.62	463.20/M
UA-92(flat)											US2882EUA-ND	1.51	1.18	.91	.70	.54	—
SOT-23										-40°C ~ 150°C	US2882LSOCT-ND	1.73	1.35	1.04	.80	.62	463.20/M
UA-92(flat)											US2882LUA-ND	1.66	1.29	1.00	.77	.60	—
UA-92(flat)	2.2 ~ 18	0.5	2.0	4.5	-4.5	-2	-0.5	Open Collector	Bidirectional	-40°C ~ 85°C	US4881EUA-ND	1.73	1.35	1.04	.80	.62	—
										-40°C ~ 150°C	US4881LUA-ND	1.87	1.46	1.13	.87	.67	—
SOT-23	3.5 ~ 24	15	25	30	9.5	20	28	Open Collector	Unidirectional	-40°C ~ 85°C	US5881ESOCT-ND	1.73	1.35	1.04	.80	.62	463.20/M
UA-92(flat)											US5881EUA-ND	1.51	1.18	.91	.70	.54	—
SOT-23										-40°C ~ 150°C	US5881LSOCT-ND	1.87	1.46	1.13	.87	.67	501.80/M
UA-92(flat)											US5881LUA-ND	1.66	1.29	1.00	.77	.60	—

* For Tape and Reel Part Number, change CT-ND to TR-ND ◊ ***RoHS Compliant*** † Unidirectional is only sensitive to either a north or south pole of a magnet. Bidirectional is sensitive to alternating magnetic fields of both north and south poles.

UA-92 (Flat)
Front View

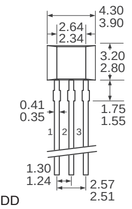

1: VDD
2: GND
3: Output

SOT-23
Top View

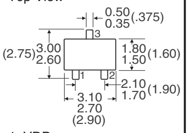

1: VDD
2: Output
3: GND

Programmable Linear Hall Effect ICs

Features:
• Quad switched/chopper stabilized • Ratiometric output for A/D interface • Adjustable quiescent voltage (V_{OQ}) • Very low quiescent voltage temperature drift • Adjustable sensitivity • Adjustable temperature compensation of sensitivity

Temperature Suffix:
E: -40°C ~ 85°C (Commercial),
L: -40°C ~ 150°C (Automotive)

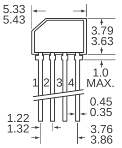

1: VDD
3: GND
2: Test/Readback
4: Output

Description	Temperature Range	Package	Digi-Key Part No.	Price Each 1	10	25	50
Precision Programmable Linear Hall IC	-40°C ~ 85°C	4-SIP(VA)	MLX90215EVA-ND	8.60	6.61	5.10	3.93
Precision Programmable Linear Hall IC	-40°C ~ 150°C	4-SIP(VA)	MLX90215LVA-ND	10.17	7.81	6.03	4.64
Precision Programmed Linear Hall IC, 10mV/mT, 2.5V			MLX90215LVA-BC03-ND	11.05	8.62	6.86	6.70
Precision Programmed Linear Hall IC, 20mV/mT, 2.5V			MLX90215LVA-CC03-ND	11.05	8.62	6.86	6.70
Precision Programmed Linear Hall IC, 50mV/mT, 2.5V			MLX90215LVA-GC03-ND	11.05	8.62	6.86	6.70
Precision Programmed Linear Hall IC, 100mV/mT, 1V			MLX90215LVA-LA03-ND	11.05	8.62	6.86	6.70
Precision Programmed Linear Hall IC, 100mV/mT, 2.5V			MLX90215LVA-LC03-ND	11.05	8.62	6.86	6.70

TT electronics
OPTEK Technology

Hallogic® Hall Effect Sensors

Fig. 1

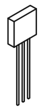

Fig. 2

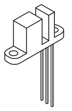

Fig.	Operate Point* Min. / Typ. / Max. (Gauss - B)	Release Point Min. / Typ. / Max. (Gauss - B)	Hysteresis Typ. / Max. (Gauss - B)	Supply Cur. Typ. / Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
1	0/90/180	-100/65/100	25/100	6/9	365-1001-ND	2.10	1.23	1.17	OH090U
	70/—/200	50/—/180	—/—	4/7	365-1003-ND	2.37	1.39	1.32	OHS3140U
	235/300/465	120/235/325	65/200	6/9	365-1036-ND	1.80	1.05	1.00	OH360U
	70/—/350	50/—/330	—/—	4/7	365-1037-ND	1.50	.88	.83	OHN3120U

Fig.	Output Current (mA)	Output DC Voltage	Output Rise Typ./ Max.	Output Fall Time Typ./ Max.	Supply Current Typ./ Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
2	25	25	0.21/1.00 µs	0.25/1.00 µs	4-7	365-1002-ND	6.93	4.05	3.84	OHB900

Latching

Fig.	Operate Point* Min./ Max. (Gauss - B)	Release Point Min. / Max. (Gauss - B)	Hysteresis Min. (Gauss - B)	Supply Cur. Typ./ Max. (mA)	Digi-Key Part No.	Price Each 1	100	250	TT Electronics Part No.
1	25/170	-170/-25	100	4/7	365-1039-ND	2.40	1.40	1.33	OHS3175U

* South pole facing symbolized surface.

HAMLIN

Hall Effect Sensors

Hamlin's Hall Effect Sensor technology offers unique design benefits. In applications where high speed switching is required, speeds of up to 10 KHz can be reached. The component package is small compared with other sensing technologies and the sensors can be specified with either a digital or analogue output. *(Fig.1 has a robust stainless steel barrel and comes with two retaining nuts.)*

Operating Temperature: -40°C ~ 100°C

Fig. 1

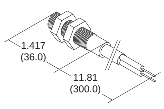

M12-1 thread

Fig. 2

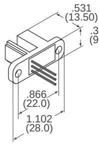

Fig. 3

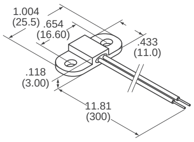

Fig. 4

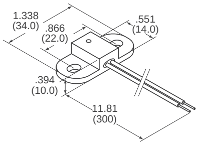

Fig. 5

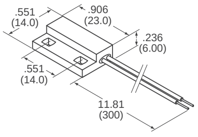

Fig.	Supply Voltage	Output Current	Terminal Type	Features	Digi-Key Part No.	Price Each 1	10	50	100	Hamlin Part No.
1	4.75-25.2 VDC	20mA	24AWG Wires	Geartooth	55075-00-02-A-ND	21.20	17.74	14.46	11.96	55075-00-02-A
2	3.8-24 VDC	20mA	PC Mount	Ferrous Vane	55085-3M-00-0-ND	6.73	5.70	4.77	3.89	55085-3M-00-0
3	3.8-24 VDC	10mA	24AWG Wires	Mini PNL MNT	55100-3H-02-A-ND	5.46	4.62	3.87	3.15	55100-3H-02-A
4	3.8-24 VDC	10mA	24AWG Wires	LED PNL MNT	55110-3H-02-A-ND	7.22	6.11	5.11	4.17	55110-3H-02-A
5	3.8-24 VDC	20mA	24AWG Wires	Flange MNT	55140-3H-02-A-ND	5.33	4.51	3.78	3.08	55140-3H-02-A

Honeywell
Sensing and Control

Sensors

Fig. 1
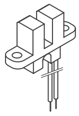
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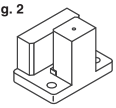
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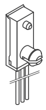
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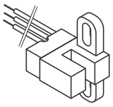
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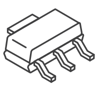
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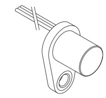
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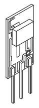
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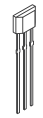
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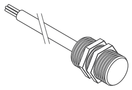
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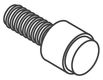
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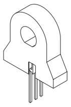
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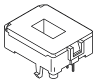
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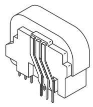
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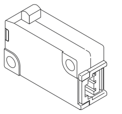
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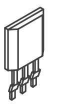

Hall Effect Sensors

Fig.	Supply Voltage	Output Current	Output Type	Terminal Type	Polarity	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	T & R Pricing * 1,000	Honeywell Part No.
1	3.8 VDC ~ 30 VDC	10 mA	Sink	Lead Wires	—	480-1992-ND	5.95	5.06	4.47	—	SR16C-J6
2	4.5 VDC ~ 24 VDC	40 mA	Sink	Lead Wires	—	480-1990-ND	22.85	19.43	17.14	—	4AV16F
3	3.8 VDC ~ 30 VDC	20 mA	Sink	Lead Wires	Unipolar	480-1991-ND	4.50	3.83	3.38	—	SR13C-A1
4	3.8 VDC ~ 30 VDC	40 mA	Sink	Lead Wires	—	480-1993-ND	5.90	5.02	4.43	—	SR17C-J6
5	4.5 VDC ~ 24 VDC	20 mA	Sink	SOT89	Bipolar	480-2010-1-ND	2.60	2.24	1.86	1190.00	SS51T
6	4.5 VDC ~ 24 VDC	40 mA	Sink	Lead Wires	—	480-2021-ND	24.00	20.40	18.00	—	1GT101DC
7	8 VDC ~ 16 VDC	10 mA	Source	PC Board	Ratiometric Linear	480-2007-ND	11.20	9.52	8.40	—	91SS12-2
	6.6 VDC ~ 12.6 VDC	1 mA	Sink/Source		Ratiometric	480-2008-ND	14.25	12.12	10.69	—	SS94A1
	6.6 VDC ~ 12.6 VDC	1 mA	Sink/Source		Ratiometric	480-2009-ND	16.65	14.16	12.49	—	SS94A1F
5	3.8 VDC ~ 30 VDC	20 mA	Sink	SOT89	Bipolar	480-2011-1-ND	3.17	2.73	2.27	1451.00	SS511AT
	3.8 VDC ~ 30 VDC		Sink		Unipolar	480-2012-1-ND	3.17	2.73	2.27	1451.00	SS541AT
	3.8 VDC ~ 30 VDC		Sink		Bipolar Latch	480-2013-1-ND	3.17	2.73	2.27	1451.00	SS561AT
8	4.5 VDC ~ 24 VDC	20 mA	Sink	PC Board	Bipolar	480-1998-ND	1.12	.96	.84	—	SS40A
	4.5 VDC ~ 24 VDC	20 mA	Sink		Bipolar	480-1999-ND	1.45	1.24	1.09	—	SS41
	3.8 VDC ~ 30 VDC	20 mA	Sink		Bipolar	480-2000-ND	1.85	1.58	1.39	—	SS411A
	3.8 VDC ~ 30 VDC	20 mA	Sink		Unipolar	480-2001-ND	1.85	1.58	1.39	—	SS441A
	3.8 VDC ~ 30 VDC	20 mA	Sink		Unipolar	480-2002-ND	1.55	1.32	1.17	—	SS443A
	3.8 VDC ~ 30 VDC	20 mA	Sink		Bipolar Latch	480-2003-ND	1.85	1.58	1.39	—	SS461A
	3.8 VDC ~ 30 VDC	20 mA	Sink		Bipolar Latch	480-2004-ND	1.60	1.36	1.20	—	SS466A
	4.5 VDC ~ 10.5 VDC	1.5 mA	Sink/Source		Ratiometric	480-2005-ND	2.60	2.21	1.95	—	SS495A
	3 VDC ~ 6.5 VDC	1.5 mA	Source		Analog	480-2006-ND	1.55	1.32	1.17	—	SS49E
9	4.5 VDC ~ 24 VDC	20 mA	Sink	Lead Wires	Unipolar	480-2014-ND	21.75	18.49	16.32	—	103SR13A-1

* For Tape and Reel part number, change -1-ND to -2-ND

Magnet

Fig.	Outside Diameter mm (Inch)	Thread Dim.	Length mm (Inch)	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Honeywell Part No.
10	7.9 (0.31)	8-32	17.0 (0.67)	480-2015-ND	7.40	6.29	5.55	102MG11

Current Sensor

Fig.	Supply Voltage	Output Current	Output Type	Terminal Type	Polarity	Sensor Type	Current Type	Response Time	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Honeywell Part No.
11	5.4 VDC ~ 13.2 VDC	—	Voltage	PCB	—	Open Loop Linear	AC or DC	3µs	480-1994-ND	14.65	12.46	10.99	CSLA2CD
12	4.5 VDC ~ 10.5 VDC	1.5 mA	Voltage	PCB	Positive	Open Loop	DC	50µs	480-1995-ND	6.35	5.40	4.77	CSLH3A45
13	4.75 VDC ~ 5.25 VDC	12.5 mA	Current	PCB	—	Closed Loop Linear	AC or DC	≤0.2µs	480-1996-ND	21.10	17.94	15.83	CSNX25

Switch

Fig.	Supply Voltage	Output Current	Output Type	Transistor State	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Honeywell Part No.
14	4.5 VDC ~ 24.0 VDC	10 mA	Sink	Normally Off	480-2018-ND	7.60	6.46	5.70	VX10
					480-2019-ND	7.60	6.46	5.70	VX80
					480-2020-ND	10.90	9.27	8.18	VX80-C1

MR

Fig.	Supply Voltage	Output Current	Output Type	Polarity	Operate Point	Release Point @25°C	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Honeywell Part No.
15	3.8 VDC ~ 30.0 VDC	20 mA	Sink	Omnipolar	1.5 mT	1.1 mT	480-1997-ND	2.30	1.96	1.73	2SS52M

Temperature

Fig.	Supply Voltage	Supply Current	Temp. Sensing Range	Length (Inch)	Termination	Packaging Type	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Honeywell Part No.
9	10.0 VDC	1 mA	—	1.5	Lead Wires	3/8-24 UNF-2A	480-2016-ND	28.10	23.89	21.08	TD4A
8	10.0 VDC	1 mA	-40°C ~ 150°C	—	SIP	Plastic Case	480-2017-ND	3.60	3.06	2.70	TD5A

Panasonic®

Hall Effect Sensor ICs

Panasonic's Hall IC is a combination of a Hall element, amplifier, Schmidt circuit, and stabilized power supply/temperature compensator integrated on an identical chip by using the IC technology. It amplifies Hall element output at the amplifier, converts into a digital signal through the Schmidt circuit, and drives the TTL or MOS IC directly.

Features: • Stable temperature characteristics due to the additional temperature compensator • TTL and MOS ICs directly driveable by output • Semipermanent service life due to no contact parts • Small change of the operating flux density against mechanical stress • Provided with the output pull-up resistors (typ 27kΩ or open collector output (see chart) • Operating Temperature: -40°C ~ 100°C (-40°C ~ 85°C for DN6851 - DN6853) • Supply Current Maximum: 6mA • Output Circuit Maximum: 20mA

Applications: • Speed Sensors • Position Sensors • Rotation Sensors • Keyboard Switches • Microswitches

Fig. 1
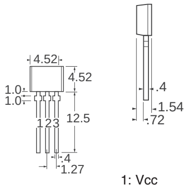

Fig. 2
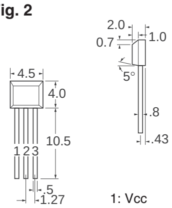

Fig. 3
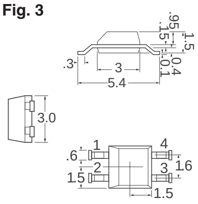

Fig.	Supply Voltage Range (V)	Oper.** Flux Density (Gauss) (L-H)	Oper.** Flux Density (Gauss) (H-L)	Output* Type	Oper.† Type	Pkg.	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100
1	4.5 – 16	-175	175	Pull-up	Bidirectional	3-Sip	DN6847SE-ND	1.68	1.35	1.01
2	4.5 – 16	5	220	0C	Unidirectional	3-Sip	DN6848-ND	1.04	.87	.70
3	4.5 – 16	5	220	0C	Unidirectional	SOH-4D	DN6848S-E1VCT-ND	.90	.75	.60
3	4.5 – 16	5	220	0C	Unidirectional	SOH-4D	DN6848S-E1VTR-ND	362.00/1000		
2	4.5 – 16	-175	175	0C	Bidirectional	3-Sip	DN6849-ND	1.69	1.36	1.02
3	4.5 – 16	-175	175	0C	Bidirectional	SOH-4D	DN6849S-ND	1.69	1.36	1.02
1	4.5 – 16	-175	175	0C	Bidirectional	3-Sip	DN6849SE-ND	1.69	1.36	1.02
2	3.6 – 16	-200	200	Pull-up	Bidirectional	3-Sip	DN6851-A-ND	.90	.76	.61
2	3.6 – 16	100	450	0C	Unidirectional	3-Sip	DN6852-A-ND	1.04	.87	.70
2	4.5 – 16	-120	120	Pull-up	Bidirectional	3-Sip	DN8897-ND	1.69	1.36	1.02
	4.5 – 16	-120	120	0C	Bidirectional	3-Sip	DN8899-ND	1.69	1.36	1.02

* Output Type: Pull-up Resistors = 27K Internal; 0C = Open Collector. ** To convert Gauss to millitesla, divide by 10
† Unidirectional and is only sensitive to either north or southside of magnetic; Bidirectional is sensitive to an alternating magnetic fields of both north and south sides.

N

Infrared Photosensors

Fig. 1
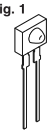

Fig. 2
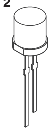

Fig. 3
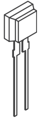

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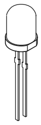

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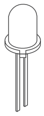

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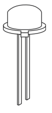

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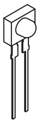

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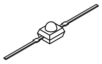

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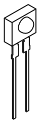

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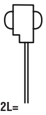
*LNA2702L=
Long Leads

Fig. 11
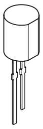

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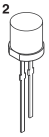

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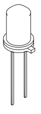

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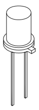

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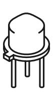

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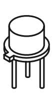

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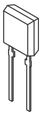

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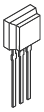

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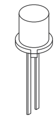

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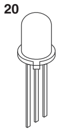

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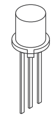

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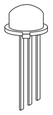

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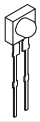

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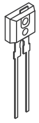

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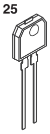

Fig. 26
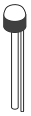

Infrared Light Emitting Diode

Fig.	Style/ Pkg.	Pulse Forward Current	Optical Power Output	Peak Emission Wavelength	Beam Angle	Digi-Key Part No.	Pricing			Panasonic Part No.
							1	10	100	
1	Side View	1A	4.6mW	950nm	17°	LN54PA-ND	1.00	8.37	66.96	LN54
2	Top View	1.5A	7mW	950nm	45°	LN64PA-ND	.91	7.56	60.48	LN64
3	Side View	2A	12mW	900nm	115°	LN175PA-ND	1.81	14.47	108.54	LN175
4	T-1 3/4	1.5A	10mW/sr	950nm	20°	LNA2904L-ND	.89	7.42	59.33	LNA2904L
5	TO-18	2A	3-6mW	950nm	8°	LN51L-ND	3.63	29.02	225.70	LN51L
6	TO-18 Small	2A	3.5-6mW	950nm	100°	LN52-ND	3.05	24.38	189.59	LN52
7	Side View	1A	1.8-3.5mW	950nm	35°	LN55-ND	.78	6.53	52.26	LN55
8	Axial	1A	3-4.5mW	950nm	18°	LNA2W01L-ND	1.35	11.29	90.28	LNA2W01L
9	Side View	1A	1.8-3.5mW	950nm	35°	LN58-ND	.97	8.06	64.49	LN58
10	Side View x2	1A	1.8mW	950nm	23°	LN59-ND	1.10	9.13	73.01	LN59
10	Side View x2	1A	1.8mW	950nm	23°	LNA2702L-ND*	.62	4.62	34.62	LNA2702L
10	Side View x2	1A	1.2mW/sr	940nm	23°	LNA2701L-ND	1.32	10.96	87.70	LNA2701L
4	T-1 3/4	1.5A	9mW/sr	950nm	25°	LNA2903L-ND	.45	3.61	27.08	LNA2903L
4	T-1	1A	2.5-5mW	950nm	20°	LNA2802L-ND	.45	3.61	27.08	LNA2802L
9	Side View	1A	6-10mW	880nm	40°	LN78-ND	4.97	39.77	309.30	LN78
4	T-1	1A	6mW/sr	940nm	15°	LNA2801L-ND	.67	5.03	37.73	LNA2801L
3	Side View	1.5A	3-6mW	940nm	80°	LNA2603F-ND	1.27	10.12	75.90	LNA2603F
7	Side View	1.5A	4.3-5.5mW	950nm	35°	LN65-ND	1.29	10.34	77.52	LN65
6	TO-18 Small	1.5A	5-10mW	950nm	90°	LN152-ND	2.13	17.74	141.91	LN152

Pin Photo Diode

Fig.	Style/ Pkg.	V_R	Peak Sensitivity Wavelength	tr/tf	Beam Angle	Digi-Key Part No.	Pricing			Panasonic Part No.
							1	10	100	
11	Side View	30V	960nm	50ns	70°	PNZ323B-ND	.91	7.56	60.48	PNZ323B
12	Top View	50V	900nm	2ns	70°	PNZ334-ND	1.46	12.15	97.20	PNZ334
6	TO-18 Small	30V	850nm	2ns	70°	PNZ330CL-ND	2.99	23.90	185.91	PNZ330CL
3	Side View	30V	850nm	2ns	70°	PNZ335-ND	1.26	10.12	75.88	PNZ335
13	TO-18	50V	800nm	1ns	10°	PNZ300-ND	6.14	49.10	414.27	PNZ300
14	TO-18	50V	800nm	1ns	40°	PNZ300F-ND	6.14	49.10	414.27	PNZ300F
15	TO-18	30V	900nm	2ns	70°	PNZ331CL-ND	3.66	29.31	227.95	PNZ331CL
16	TO-18	30V	900nm	—	40°	PNZ331F-ND	7.11	56.85	479.68	PNZ331F
17	Side View	30V	960nm	50ns	65°	PNZ313B-ND	1.65	13.18	98.82	PNZ313B

NPN Photo Transistor

Fig.	Style/ Pkg.	V_{CEO}	I_C	Peak Sensitivity Wavelength	tr/tf	Digi-Key Part No.	Pricing			Panasonic Part No.
							1	10	100	
18	Side View	20V	10mA	900nm	8μs	PNA1605F-ND	1.51	12.10	90.72	PNA1605F
8	Axial	20V	20mA	800nm	2.5/3.5μs	PNZ12700S-ND	1.20	9.99	79.92	PNZ12700S
1	Side View	20V	20mA	800nm	4μs	PNZ154-ND	1.39	11.61	92.88	PNZ154
5	TO-18	30V	50mA	800nm	3μs	PNA1401L-ND	3.56	28.46	221.32	PNA1401L
19	TO-18 Flat	30V	50mA	800nm	3μs	PNA1401LF-ND	3.56	28.46	221.32	PNA1401LF
20	TO-18	40V†	50mA	800nm	3μs	PNZ102-ND	3.56	28.46	221.32	PNZ102
21	TO-18 Flat	30V†	50mA	800nm	3μs	PNZ102F-ND	3.56	28.46	221.32	PNZ102F
20	TO-18	30V†	30mA	900nm	5/6μs	PNZ108-ND	3.56	28.46	221.32	PNZ108
22	TO-18 Small	30V†	20mA	900nm	5/6μs	PNZ108CL-ND	2.99	23.90	185.91	PN108CL
21	TO-18 Flat	30V†	30mA	900nm	8/9μs	PNZ109F-ND	3.56	28.46	221.32	PNZ109F
22	TO-18 Small	30V†	20mA	900nm	5/6μs	PNZ109CL-ND	2.99	23.90	185.91	PNZ109CL
20	TO-18	30V†	30mA	900nm	5/6μs	PNZ109L-ND	3.56	28.46	221.32	PNZ109L
8	Axial	20V	20mA	800nm	3-10μs	PNZ147-ND	1.58	12.65	94.85	PNZ147
7	Side View	20V	20mA	800nm	4-10μs	PNZ150-ND	1.06	8.85	70.82	PNZ150
23	Side View	20V	20mA	800nm	4μs	PNA1608L-ND	1.06	8.85	70.82	PNA1608L
3	Side View	20V	10mA	800nm	4μs	PNZ155-ND	1.25	10.43	83.47	PNZ155
9	Side View	20V	20mA	800nm	4-10μs	PNZ158-ND	1.06	8.85	70.82	PNZ158
24	Side View	20V	20mA	850nm	4μs	PNZ163NC-ND	1.06	8.85	70.82	PNZ163NC
25	Side View	20V	20mA	850nm	4μs	PNA1601M-ND	1.06	8.85	70.82	PNA1601M
7	Side View	20V	30mA	800nm	100μs	PNA2602M-ND‡	1.14	9.49	75.88	PNA2602M
8	Axial	20V	30mA	800nm	200μs	PNA2W01M-ND‡	.99	8.21	65.67	PNA2W01M
9	Side View	20V	30mA	800nm	100μs	PNA2603L-ND‡	1.14	9.49	75.88	PNA2603L
26	T-1	20V	10mA	800nm	1/1.3μs	PNZ121S0R-ND	1.20	10.03	80.27	PNZ121S0R

† VCBO (This device has signal mixing capability using the base pin.) ‡ Darlington

Reflective Photosensors

Fig. 1
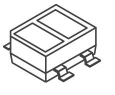

Fig. 2
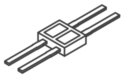

Reflective Photosensors consist of a high efficiency GaAs infrared light emitting diode which is integrated with a high sensitivity phototransistor in a single resin package.

FEATURES:
• Reflow-compatible reflective photosensor • Ultraminiature thin type: 2.7 x 3.4 mm (height: 1.5 mm) • Visible light cutoff resin is used • CNB10010RL and CNB13020R have Si phototransistor • Reflective Sensing method; 1mm Sensing distance

Fig.	Rank	IC (μA)	Typ. t on/ t off (μsec.)	Input		Output		Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape & Reel Pricing
				V_R	I_F	I_C	V_{CEO}		1	10	100	500		1,000
1	R	41~90	30/40	6V	50mA	20mA	35V	CNB10010RLCT-ND	.99	.83	.66	.46	CNB10010RLTR-ND	437.00
2	R	180~440	20/20	3V	50mA	20mA	30V	CNB13020R-ND	.95	.72	.54	.34	—	—

Bipolar Integrated Circuit with Photodetection Function

FEATURES:

PNA4602M/PNA4701M Series *(For infrared remote control systems.)*
• Extension distance is 8 m or more • External parts not required • Adoption of visible light cutoff resin

PNA4611M Series *(For infrared remote control systems.)*
• High sensitivity (extension distance is 11 m or more) • External parts not required • Resin to cutoff visible light is used

PNA4603H Series *(For brightness control systems.)*
• Wavelength characteristics close to human visual sensitivity • External parts not required • Good output voltage linearity with respect to incident illuminance

Fig. 1
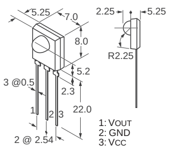

Fig. 2
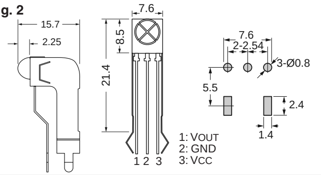

Fig. 3
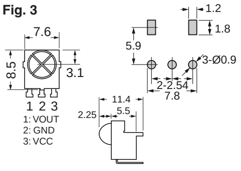

Fig. 4
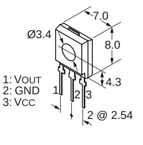

PNA4603H Series Main Characteristics

Parameter	Symbol	Conditions	Min.	Typ.	Max.	Unit
Operating Supply Voltage	VCC	—	4.5	5.0	5.5	V
Current Consumption	ICC	VCC = 5.25V	0.5	1.0	1.5	mA
Output Voltage	VOFF	L = 0 lx, VCC = 5.0V	0.1	0.5	0.8	V
	V01	L = 10 lx, VCC = 5.0V*	2.0	2.7	3.4	V
	V02	L = 800 lx, VCC = 5.0V*	3.9	4.1	4.9	V
	η	V01-VOFF, VCC = 5.0V	1.65	1.9	4.9	V
Output Impedance	Z	—	—	10	—	kΩ
Peak Sensitivity Wavelength	λρ	—	—	540	—	nm

* Halogen lamp light source.

Fig.	Operating Supply Voltage Typ. (V)	Current Consumption Typ. (mA)	Max. Recep. Distance (m)		Carrier Frequency Typ. (kHz)	Digi-Key Part No.	Pricing			Panasonic Part No.
			min.	Typ.			1	10	100	
1	5.0	2.4	8	10	38.0	PNA4602M-ND	1.28	10.21	76.58	PNA4602M
	3.3	0.8	7.0	—	36.7	PNA4701M-ND	1.47	11.75	88.13	PNA4701M
2	5.0	2.4	11	16	36.7	PNA4611M00YB-ND	1.43	11.46	85.98	PNA4611M00YB
	5.0	2.4	11	16	38.0	PNA4612M00YB-ND	1.43	11.46	85.98	PNA4612M00YB
	5.0	2.4	11	16	40.0	PNA4613M00YB-ND	1.43	11.46	85.98	PNA4613M00YB
	5.0	2.4	11	16	56.9	PNA4614M00YB-ND	1.43	11.46	85.98	PNA4614M00YB
3	5.0	2.4	11	16	36.7	PNA4611M00XD-ND	1.43	11.46	85.98	PNA4611M00XD
	5.0	2.4	11	16	38.0	PNA4612M00XD-ND	1.43	11.46	85.98	PNA4612M00XD
4	See PNA4603A Main Characteristics Chart					PNA4603H-ND	3.16	25.31	196.86	PNA4603H

Honeywell
Sensing and Control

SenSym ICT

Solid State Pressure Sensors

For use in medical equipment, pneumatic controls, computer peripherals and pressure instrumentation, process and flow control.

Fig. 1 — Sensor AMP

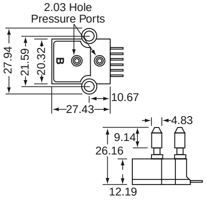

Fig. 2 — SDX A4, D4, IND4

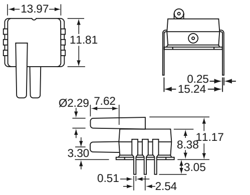

Fig. 3 — SDX A2/G2/D2

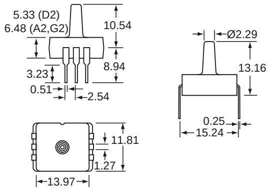

Fig. 4 — Pigtail

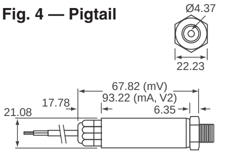

Note: 4-Conductor Cable. 24 AWG conductors shielded with drain wire 24” (61cm) long.

Fig. 5 — Button Sensor

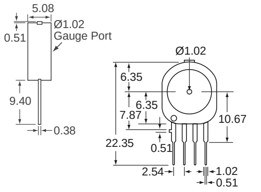

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Operating Temperature	Digi-Key Part No.	Price Each			Honeywell Part No.
									1	25	100	
Signal Conditioned Pressure Sensors												
1	0-1 PSID	Differential/Gage	0.25 ~ 4.5V	SIP	4.5 ~ 16	100µSec	-25°C ~ 105°C	287-1002-ND	55.47	48.68	41.60	ASCX01DN
	0-5 PSID	Differential/Gage						287-1003-ND	55.47	48.68	41.60	ASCX05DN
	0-15 PSIA	Absolute						287-1008-ND	55.47	48.68	41.60	ASCX15AN
	0-15 PSID	Differential/Gage						287-1009-ND	55.47	48.68	41.60	ASCX15DN
	0-30 PSIA	Absolute						287-1010-ND	55.47	48.68	41.60	ASCX30AN
	0-30 PSID	Differential/Gage						287-1011-ND	55.47	48.68	41.60	ASCX30DN
	0-100 PSIA	Absolute						287-1004-ND	55.47	48.68	41.60	ASCX100AN
	0-100 PSID	Differential/Gage						287-1005-ND	55.47	48.68	41.60	ASCX100DN
	0-150 PSIA	Absolute						287-1006-ND	55.47	48.68	41.60	ASCX150AN
	0-150 PSID	Differential/Gage						287-1007-ND	55.47	48.68	41.60	ASCX150DN
Precision Compensated Pressure Sensors												
1	0-1 PSID	Differential/Gage	0-18mV	SIP	20	100µSec	-40°C ~ 85°C	287-1017-ND	79.61	63.69	47.77	SCX01DN
	0-5 PSID	Differential/Gage	0-60mV		20	100µSec	-40°C ~ 85°C	287-1018-ND	57.37	40.69	32.22	SCX05DN
	0-15 PSIA	Absolute	0-90mV		20	100µSec	-40°C ~ 85°C	287-1023-ND	57.37	40.69	32.22	SCX15AN
	0-15 PSID	Differential/Gage	0-90mV		20	100µSec	-40°C ~ 85°C	287-1024-ND	57.37	40.69	32.22	SCX15DN
	0-30 PSIA	Absolute	0-90mV		20	100µSec	-40°C ~ 85°C	287-1025-ND	78.86	55.93	44.29	SCX30AN
	0-30 PSID	Differential/Gage	0-90mV		20	100µSec	-40°C ~ 85°C	287-1026-ND	57.37	40.69	32.22	SCX30DN
	0-100 PSIA	Absolute	0-100mV		20	100µSec	-40°C ~ 85°C	287-1019-ND	69.94	46.25	39.12	SCX100AN
	0-100 PSID	Differential/Gage	0-100mV		20	100µSec	-40°C ~ 85°C	287-1020-ND	69.94	46.25	39.12	SCX100DN
	0-150 PSIA	Absolute	0-90mV		20	100µSec	-40°C ~ 85°C	287-1021-ND	69.94	46.25	39.12	SCX150AN
	0-150 PSID	Differential/Gage	0-90mV		20	100µSec	-40°C ~ 85°C	287-1022-ND	69.94	46.25	39.12	SCX150DN
	0-4” H2O	WC	Ratio		18	500µSec	0°C ~ 70°C	287-1027-ND	77.58	57.95	41.18	SCXL004DN
2	0-1 PSID	Differential/Gage	0-18mV	DIP	20	100µSec	-40°C ~ 85°C	287-1028-ND	32.88	30.27	24.66	SDX01D4
	0-5 PSID	Differential/Gage	0-60mV				-40°C ~ 85°C	287-1030-ND	32.88	30.27	24.66	SDX05D4
	0-15 PSIA	Absolute	0-90mV				-40°C ~ 85°C	287-1037-ND	32.88	30.27	24.66	SDX15A4
	0-15 PSID	Differential/Gage	0-90mV				-40°C ~ 85°C	287-1038-ND	32.88	30.27	24.66	SDX15D4
	0-30 PSIA	Absolute	0-90mV				-40°C ~ 85°C	287-1041-ND	32.88	30.27	24.66	SDX30A4
	0-30 PSID	Differential/Gage	0-90mV				-40°C ~ 85°C	287-1042-ND	32.88	30.27	24.66	SDX30D4
	0-100 PSIA	Absolute	0-100mV				-40°C ~ 85°C	287-1033-ND	32.88	30.27	24.66	SDX100A4
	0-100 PSID	Differential/Gage	0-100mV				-40°C ~ 85°C	287-1034-ND	32.88	30.27	24.66	SDX100D4
	0-5” H2O	WC	0-20mV				-20°C ~ 85°C	287-1125-ND	52.59	48.42	39.45	SDX005IND4
	0-10” H2O	WC	0-20mV				-20°C ~ 85°C	287-1126-ND	44.81	41.26	33.61	SDX010IND4
3	0-1 PSIG	Gage	0-18mV	DIP	20	100µSec	-40°C ~ 85°C	287-1029-ND	32.88	30.27	24.66	SDX01G2
	0-5 PSIG	Gage	0-60mV					287-1031-ND	32.88	30.27	24.66	SDX05G2
	0-15 PSIA	Absolute	0-90mV					287-1036-ND	32.88	30.27	24.66	SDX15A2
	0-15 PSIG	Gage	0-90mV					287-1039-ND	32.88	30.27	24.66	SDX15G2
	0-30 PSIA	Absolute	0-90mV					287-1040-ND	32.88	30.27	24.66	SDX30A2
	0-30 PSIG	Gage	0-90mV					287-1043-ND	32.88	30.27	24.66	SDX30G2
	0-100 PSIA	Absolute	0-100mV					287-1032-ND	32.88	30.27	24.66	SDX100A2
	0-100 PSIG	Gage	0-100mV					287-1035-ND	32.88	30.27	24.66	SDX100G2
Calibrated and Temperature Compensated Steel Sensors												
4	0-5 PSIG	Gage	1-5VDC	Steel 1/4” (6.35mm) 18NPT (Male)	12 ~ 30	5 ms	-40°C ~ 125°C	287-1090-ND	133.13	108.54	92.61	SPT4V0005PG5W02
	0-15 PSIG		1-5VDC		12 ~ 30			287-1091-ND	133.13	108.54	92.61	SPT4V0015PG5W02
	0-30 PSIG		1-5VDC		12 ~ 30			287-1092-ND	133.13	108.54	92.61	SPT4V0030PG5W02
	0-100 PSIG		1-5VDC		12 ~ 30			287-1093-ND	133.13	108.56	92.62	SPT4V0100PG5W02
	0-300 PSIG		1-5VDC		12 ~ 30			287-1094-ND	133.11	108.54	92.60	SPT4V0300PG5W02
	0-500 PSIG		1-5VDC		12 ~ 30			287-1095-ND	133.13	108.56	92.62	SPT4V0500PG5W02
	0-5 PSIG		4-20mA		12.5 ~ 30			287-1096-ND	133.13	108.56	92.62	SPTMA0005PG5W02
	0-15 PSIG		4-20mA		12.5 ~ 30			287-1097-ND	133.13	108.56	92.62	SPTMA0015PG5W02
	0-30 PSIG		4-20mA		12.5 ~ 30			287-1098-ND	133.13	108.56	92.62	SPTMA0030PG5W02
	0-100 PSIG		4-20mA		12.5 ~ 30			287-1099-ND	133.13	108.56	92.62	SPTMA0100PG5W02
	0-500 PSIG		4-20mA		12.5 ~ 30			287-1101-ND	133.13	108.56	92.62	SPTMA0500PG5W02
4	0-5 PSIG	Gage	0-100mV	2” (61cm) Pigtail Electrical Connection	15	100µSec	-40°C ~ 125°C	287-1102-ND	113.45	108.53	75.26	SPTMV0005PG5W02
	0-30 PSIG							287-1104-ND	113.45	108.53	75.26	SPTMV0030PG5W02
	0-100 PSIG							287-1105-ND	113.45	108.53	75.26	SPTMV0100PG5W02
	0-300 PSIG							287-1106-ND	113.45	108.53	75.26	SPTMV0300PG5W02
	0-500 PSIG							287-1107-ND	113.45	108.53	75.26	SPTMV0500PG5W02
High-Impedance Bridge Sensors												
2	0-1 PSID	Differential	0-20mV	DIP	12	100µSec	-40°C ~ 85°C	287-1065-ND	24.50	22.56	18.38	SX01DD4
	0-5 PSID	Differential	0-75mV					287-1068-ND	24.50	22.89	18.38	SX05DD4
	0-15 PSIA	Absolute	0-110mV					287-1080-ND	19.88	18.31	14.91	SX15AD4
	0-15 PSID	Differential	0-110mV					287-1082-ND	19.88	18.31	14.91	SX15DD4
	0-30 PSIA	Absolute	0-110mV					287-1086-ND	24.68	22.89	18.51	SX30AD4
	0-30 PSID	Differential	0-110mV					287-1088-ND	24.50	22.89	18.38	SX30DD4
	0-100 PSIA	Absolute	0-150mV					287-1072-ND	24.49	22.56	18.37	SX100AD4
	0-100 PSID	Differential	0-150mV					287-1074-ND	24.49	22.56	18.37	SX100DD4
3	0-1 PSIG	Gage	0-20mV	DIP	12	100µSec	-40°C ~ 85°C	287-1066-ND	26.82	24.70	20.13	SX01GD2
	0-5 PSIG	Gage	0-75mV					287-1069-ND	27.75	26.73	20.81	SX05GD2
	0-15 PSIA	Absolute	0-110mV					287-1079-ND	19.88	18.31	14.91	SX15AD2
	0-15 PSIG	Gage	0-110mV					287-1083-ND	19.88	18.31	14.91	SX15GD2
	0-30 PSIA	Absolute	0-110mV					287-1085-ND	24.50	22.89	18.38	SX30AD2
	0-30 PSIG	Gage	0-110mV					287-1089-ND	26.81	25.43	20.12	SX30GD2
	0-100 PSIA	Absolute	0-150mV					287-1071-ND	24.68	22.74	18.52	SX100AD2
	0-100 PSIG	Gage	0-150mV					287-1075-ND	27.77	25.56	20.82	SX100GD2
5	0-1 PSID	Differential	0-20mV	Button	12	100µSec	-40°C ~ 85°C	287-1064-ND	24.50	22.56	18.38	SX01D
	0-5 PSID	Differential	0-75mV					287-1067-ND	24.50	22.89	18.38	SX05D
	0-15 PSID	Differential	0-110mV					287-1081-ND	19.88	18.31	14.91	SX15D
	0-15 PSIA	Absolute	0-110mV					287-1078-ND	19.88	18.31	14.91	SX15A
	0-30 PSID	Differential	0-110mV					287-1087-ND	23.23	22.89	17.43	SX30D
	0-30 PSIA	Absolute	0-110mV					287-1084-ND	19.88	18.31	14.91	SX30A
	0-100 PSIA	Absolute	0-150mV					287-1070-ND	24.49	22.56	18.37	SX100A
	0-100 PSID	Differential	0-150mV					287-1073-ND	24.49	22.56	18.37	SX100D
	0-150 PSIA	Absolute	0-110mV					287-1076-ND	24.49	22.56	18.37	SX150A
	0-150 PSID	Differential	0-110mV					287-1077-ND	24.49	22.56	18.36	SX150D

* Response time for a 0 psi to full scale span pressure step change, 10% to 90% rise time.

Digital Pressure Gauges

SDPGB Series

Features: • ±0.25% Test Gauge Accuracy • 316 Stainless Steel Sensor • Long Battery Life (Two AA Alkaline approximately 2,500 hours) • Rugged Design • Display: 3 1/2" digit LCD, 1/2" Digit Height • Auto Shutoff Time • Low Battery Indication • Media Compatibility: All wetted parts are 316 SS compatible with most liquids and gases

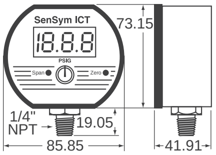

Pressure Range	Resolution PSIG	Operating Temp.	Pressure Port	Digi-Key Part No.	Price Each	Honeywell Part No.
-30.0 inHg/100.0 PSIG	0.1	-20°C ~ 85°C	1/4" NPT Male, 316 Stainless Steel	287-1928-ND	274.60	SDPGB-30+100PG5
15.00 PSIG	0.01			287-1929-ND	274.60	SDPGB0015PG5
100.0 PSIG	0.1			287-1931-ND	274.60	SDPGB0100PG5
199.9 PSIG	0.1			287-1932-ND	274.60	SDPGB0200PG5
300 PSIG	1.0			287-1933-ND	274.60	SDPGB0300PG5
1,000 PSIG	1.0			287-1935-ND	274.60	SDPGB1000PG5

Solid State Pressure Sensors

Fig. 1 – G2 Package

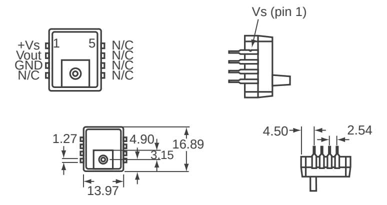

Fig. 2 – D4 Package

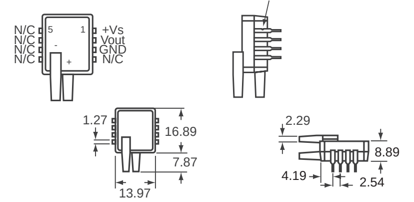

Fig. 3 – A2 Package

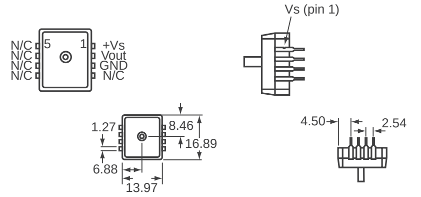

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Operating Temperature	Digi-Key Part No.	Price Each			Honeywell Part No.
									1	25	100	
Pressure Sensors Calibrated and Temperature Compensated												
1	0-1 PSIG	Gage	0.5 ~ 4.5V	DIP	4.75 ~ 5.25†	8ms	-20°C ~ 105°C	480-1923-ND	34.43	32.91	24.69	ASDX001G24R
	0-5 PSIG							480-1924-ND	34.43	32.91	24.69	ASDX005G24R
	0-15 PSIG							480-1925-ND	34.43	32.91	24.69	ASDX015G24R
	0-30 PSIG							480-1926-ND	34.43	32.91	24.69	ASDX030G24R
	0-100 PSIG							480-1927-ND	34.43	32.91	24.69	ASDX100G24R
2	0-1 PSID	Differential/Gage	0.5 ~ 4.5V	DIP	4.75 ~ 5.25†	8ms	-20°C ~ 105°C	480-1918-ND	32.91	27.98	24.69	ASDX001D44R
	0-5 PSID							480-1919-ND	32.91	27.98	24.69	ASDX005D44R
	0-15 PSID							480-1920-ND	32.91	27.98	24.69	ASDX015D44R
	0-30 PSID							480-1921-ND	34.43	32.91	24.69	ASDX030D44R
	0-100 PSID							480-1922-ND	34.43	32.91	24.69	ASDX100D44R
3	0-15 PSIA	Absolute	0.5 ~ 4.5V	DIP	4.75 ~ 5.25†	8ms	-20°C ~ 105°C	480-1915-ND	32.91	27.98	24.69	ASDX015A24R
	0-30 PSIA							480-1916-ND	34.43	32.91	24.69	ASDX030A24R
	0-100 PSIA							480-1917-ND	34.43	32.91	24.69	ASDX100A24R

† Sensor is not reverse polarity protected. * Response time for a 0 psi to full scale span pressure step change, 10% to 90% rise time.

Isolated Pressure Sensors and Compensated Sensors

Features:

- Response Time: 100 µSec, BE Series-Response Time: 10 mS *(0 psi to full scale span pressure step change, 10% to 90% rise time.)*
- Operating Temperature: -40°C ~ 125°C

13mm Male Port

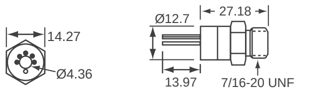

Note: Ø 0.22" ±0.001" (0.56mm ±0.03mm) Pins on Ø 0.230" (5.84mm) pin circle.

19mm Male Port

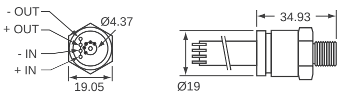

Note: 2" (50.8mm) NOMEX ribbon cable with 0.100" (2.54mm) pin spacing (24 AWG wire size).

Flush Mount

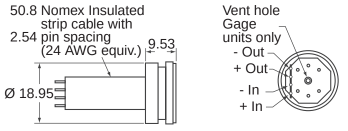
50.8 Nomex Insulated strip cable with 2.54 pin spacing (24 AWG equiv.)
9.53
Ø 18.95
Vent hole
Gage units only
- Out
+ Out
- In
+ In

Bonded Element

Dim. A (mm)	Honeywell Part No.
10.92	BE-4R5000PG6DS
10.92	BE-4R5000PG6DC

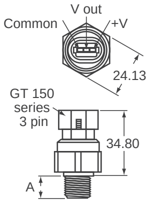

Pressure	Pressure Type	Output mV	Port Description	Max. Supply	Digi-Key Part No.	Price Each			Honeywell Part No.
						1	25	100	
13mm									
0-1000 PSIA	Absolute	0-200	1/8" 27 NPT-SS	12VDC	287-1123-ND	86.81	69.44	57.88	13C1000PA4K
0-5000 PSIA					287-1124-ND	86.81	67.30	57.88	13C5000PA4K
19mm — Calibrated Compensated									
0-15 PSIA	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1108-ND	91.44	73.68	57.30	19C015PA4K
0-15 PSIG	Gage				287-1109-ND	91.44	81.80	57.30	19C015PG4K
0-15 PSIV	Vacuum				287-1938-ND	91.44	73.68	57.30	19C015PV4K
0-15 PSIV	Vacuum	0-100	1/4" 18 NPT-SS	15VDC	287-1940-ND	91.44	73.68	57.30	19C015PV5K
0-15 PSIV	Vacuum			2.0mA	287-1941-ND	91.44	73.68	57.30	19C015PV5L
0-30 PSIA	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1110-ND	91.44	73.68	57.30	19C030PA4K
0-30 PSIG	Gage				287-1111-ND	91.44	73.68	57.30	19C030PG4K
0-30 PSIV	Vacuum				287-1944-ND	91.44	73.68	57.30	19C030PV4K
0-50 PSIA	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1112-ND	91.44	73.68	57.30	19C050PA4K
0-50 PSIG	Gage				287-1113-ND	91.44	73.68	57.30	19C050PG4K
0-100 PSIA	Absolute	0-100	1/8" 27NPT-SS	15VDC	287-1114-ND	91.44	73.68	57.30	19C100PA4K
0-100 PSIG	Gage				287-1115-ND	91.44	73.68	57.30	19C100PG4K
0-100 PSIV	Vacuum	0-100	1/4" 18 NPT-SS	15VDC	287-1952-ND	91.44	73.68	57.30	19C100PV5K
0-200 PSIA	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1116-ND	91.44	73.68	57.30	19C200PA4K
0-200 PSIG	Gage				287-1117-ND	91.44	73.68	57.30	19C200PG4K
0-300 PSIA	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1118-ND	91.44	73.68	57.30	19C300PA4K
0-300 PSIG	Gage				287-1119-ND	91.44	73.68	57.30	19C300PG4K
0-500 PSIA	Absolute	0-100	1/8" 27 NPT-SS	15VDC	287-1120-ND	91.44	73.68	57.30	19C500PA4K
0-500 PSIG	Gage				287-1121-ND	91.44	73.68	57.30	19C500PG4K
Flush Mount									
0-15 PSIV	Vacuum	0-100	N/A	15VDC	287-1936-ND	82.18	60.78	50.64	19C015PV2K
0-30 PSIV	Vacuum	0-100	N/A	15VDC	287-1942-ND	82.18	60.78	50.64	19C030PV2K
0-100 PSIV	Vacuum	0-100	N/A	15VDC	287-1948-ND	82.18	60.78	50.64	19C100PV2K
Bonded Element									
0-5000 PSIG	Gage	0.5-4.5	7/16"-20 UNF-SS	5.25VDC	287-1130-ND†	60.00	56.00	52.80	BE-4R5000PG6DS
0-5000 PSIG			7/16"-20 UNF-CRS		287-1131-ND†	58.00	54.00	50.40	BE-4R5000PG6DC

† Gland per MS33656 (3-904 O-Ring seal not provided)

freescale semiconductor

Sensors

Dim. in mm

Fig. 1

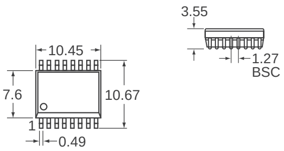

Fig. 2

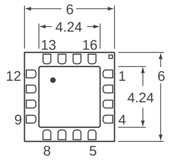

Fig. 3

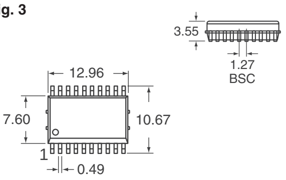

Fig. 4

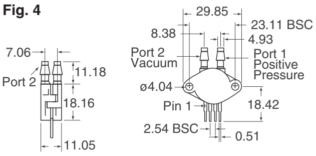

1:GND 3: Vs
2: +Vout 4: -Vout

Fig. 5

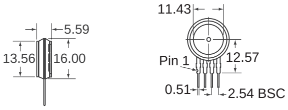

1: GND 3: Vs
2: +Vout 4: -Vout

Fig. 6

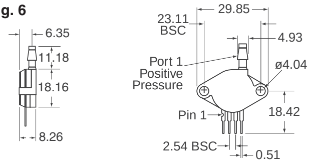

1: GND 3: Vs
2: +Vout 4: -Vout

Fig. 7

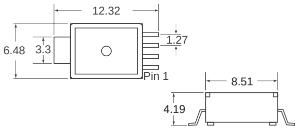

1: Ground 3: Vs
2: Vout 4: -Vout

Fig. 8

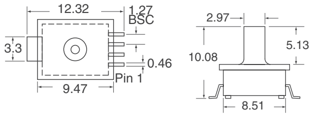

1: Ground 3: Vs
2: +Vout 4: -Vout

Fig. 9

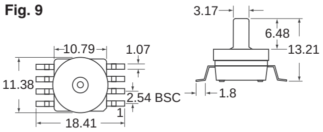

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 10

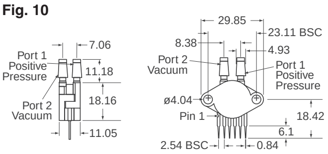

1: Vout 2: GND 3: Vs
4: NC 5: NC 6: NC

Fig. 11

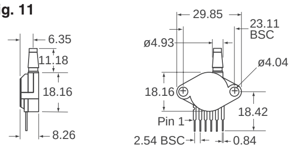

1: Vout 3: Vcc 5: V2
2: GND 4: V1 6: Vex

Fig. 12

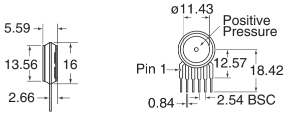

1: Vout 3: Vs 5: NC
2: GND 4: NC 6: NC

Fig. 13

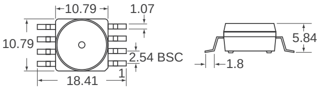

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 14

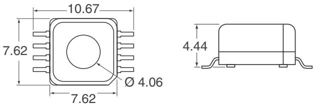

Fig. 15

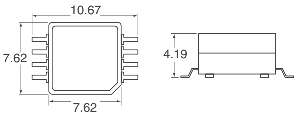

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 16 ***NEW!***

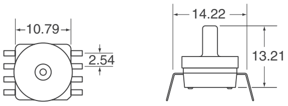

1: GND 3: Vs 5: N/C 7: N/C
2: +Vout 4: -Vout 6: N/C 8: N/C

Fig. 17 ***NEW!***

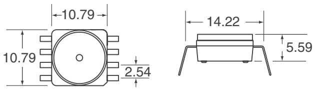

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 18 ***NEW!***

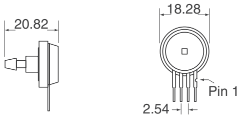

1: GND 3: Vs
2: +Vout 4: -Vout

Fig. 19 ***NEW!***

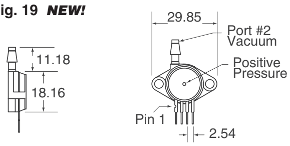

1: GND 3: Vs
2: +Vout 4: -Vout

Fig. 20 ***NEW!***

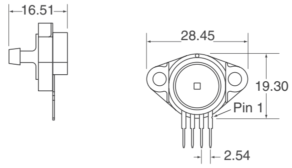

Fig. 21 ***NEW!***

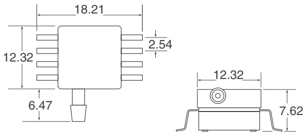

1: GND 3: Vs 5: N/C 7: N/C
2: +Vout 4: -Vout 6: N/C 8: N/C

Fig. 22 ***NEW!***

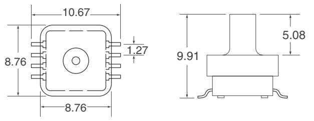

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Fig. 23 ***NEW!***

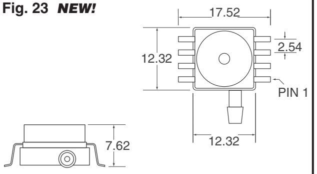

1: N/C 3: GND 5: N/C 7: N/C
2: Vs 4: Vout 6: N/C 8: N/C

Accelerometers

Supply (typ.): 5.0VDC

Fig.	Supply (VDC)	Acceleration Range (g) Typ.	Sensitivity (mV/g/V)	Rolloff Frequency (Hz)	Sensing Axis	Zero g Output (Vdd 5V)*	Operating Temperature °C	Digi-Key Part No.	Price Each 1	25	100
1	4.75 ~ 5.25	1.5	1200	50	X	2.5V	-40 ~ 105	MMA2260D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	45	10	400	X	2.5V	-40 ~ 105	MMA2201D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	56.3	8	400	X	2.5V	-40 ~ 125	MMA2202D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	112.5	4	400	X	2.5V	-40 ~ 125	MMA2204D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	281	1.6	400	X	2.5V	-40 ~ 125	MMA2300D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	2.5	750	50	Z	2.5V	-40 ~ 105	MMA1270D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	5	400	50	Z	2.5V	-40 ~ 125	MMA1250D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	11	50	250	Z	2.5V	-40 ~ 125	MMA1220D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	56.3	8	400	Z	2.5V	-40 ~ 125	MMA1213D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	1.5	1200	50	Z	2.5V	-40 ~ 105	MMA1260D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	112.5	4	400	Z	2.5V	-40 ~ 125	MMA1210D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	169	13	400	Z	2.5V	-40 ~ 125	MMA1211D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	225	2	400	Z	2.5V	-40 ~ 125	MMA1212D-ND	15.32	11.59	10.68
	4.75 ~ 5.25	281	1.6	400	Z	2.5V	-40 ~ 125	MMA1200D-ND	15.32	11.59	10.68
2	2.7 ~ 3.6	1.5	800	50	X-Y	1.65V	-20 ~ 85	MMA6260Q-ND	7.66	5.80	5.52
	2.7 ~ 3.6	1.5	800	300	X-Y	1.65V	-20 ~ 85	MMA6261Q-ND	7.66	5.80	5.52
	2.7 ~ 3.6	1.5	800	150	X-Y	1.65V	-20 ~ 85	MMA6262Q-ND	7.66	5.80	5.52
	2.7 ~ 3.6	1.5	800	900	X-Y	1.65V	-20 ~ 85	MMA6263Q-ND	7.66	5.80	5.52
	2.2 ~ 3.6	1.5	800	350(XY) / 150(Z)	X-Y-Z	1.65V	-20 ~ 85	MMA7260Q-ND	10.86	8.21	7.57
	2.7 ~ 3.6	10	120	300	X-Y	1.65V	-20 ~ 85	MMA6231Q-ND	7.66	5.80	5.52

* The device can measure both +/- acceleration. With no input acceleration the output is at midsupply. For positive acceleration the output will increase above Vdd/2 and for negative acceleration the output will decrease below Vdd/2.

(Continued)

Fig.	Supply (VDC)	Acceleration Range (g) Typ.	Sensitivity (mV/g/V)	Rolloff Frequency (Hz)	Sensing Axis	Zero g Output (Vdd 5V)*	Operating Temperature °C	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
2	2.7 ~ 3.6	10	120	900	X-Y	1.65V	-20 ~ 85	MMA6233Q-ND	7.66	5.80	5.52
3	4.75 ~ 5.25	45	10	400	X-Y	2.5V	-40 ~ 125	MMA3201D-ND	15.32	11.59	10.68
3	4.75 ~ 5.25	112.5(X) / 56.3(Y)	4/8	400	X-Y	2.5V	-40 ~ 125	MMA3202D-ND	15.32	11.59	10.68
Accelerometer Development Kits											
Accelerometer Evaluation Kit for MMA1250D								KIT1925MMA1250D-ND	48.09	40.05	37.68
Accelerometer Evaluation Kit for MMA1260D								KIT1925MMA1260D-ND	48.09	40.05	37.68
Accelerometer Evaluation Kit for MMA1270D								KIT1925MMA1270D-ND	48.09	40.05	37.68
Accelerometer Evaluation Kit for MMA2260D								KIT1925MMA2260D-ND	48.09	40.05	37.68
Accelerometer Evaluation Kit for MMA6231Q								KIT1925MMA6231Q-ND	48.09	40.05	37.68
Accelerometer Evaluation Kit for MMA6233Q								KIT1925MMA6233Q-ND	48.09	40.05	37.68
Accelerometer Evaluation Kit for MMA6260Q								KIT1925MMA6260Q-ND	48.09	40.05	37.68
Accelerometer Evaluation Kit for MMA6261Q								KIT1925MMA6261Q-ND	48.09	40.05	37.68
Accelerometer Evaluation Kit for MMA6262Q								KIT1925MMA6262Q-ND	48.09	40.05	37.68
Accelerometer Evaluation Kit for MMA6263Q								KIT1925MMA6263Q-ND	48.09	40.05	37.68
Accelerometer Evaluation Kit for MMA7260Q								KIT3109MMA7260Q-ND ***NEW!***	65.17	—	—
Reference Design Kits											
Triax Reference Design 3-Axis for MMA2260D ±1.5g with MMA1260D								RD1986MMA2260D-ND	78.55	63.61	61.55
Triax Reference Design 3-Axis for MMA6260Q ±1.5g with MMA1260D								RD1986MMA6260Q-ND	78.55	63.61	61.55
Sensing Reference Design 3-Axis for MMA7260Q								RD3112MMA7260Q-ND ***NEW!***	65.17	—	—

* The device can measure both +/- acceleration. With no input acceleration the output is at midsupply. For positive acceleration the output will increase above Vdd/2 and for negative acceleration the output will decrease below Vdd/2.

Precision Temperature Compensated Pressure Sensors

Operating Temperature Range: -40°C ~ 125°C

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Compensated Temp. Range (°C)	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100
Unamplified Uncompensated Pressure Sensors											
4	0 ~ 1.45 psi	Differential	35mV	344C-01	3.0	1.0ms	—	MPX10DP-ND	12.03	9.16	8.59
5	0 ~ 1.45 psi	Differential	35mV	344-15	3.0	1.0ms	—	MPX10D-ND ***NEW!***	11.49	8.69	8.01
6	0 ~ 1.45 psi	Gauge	35mV	344B-01	3.0	1.0ms	—	MPX10GP-ND ***NEW!***	12.26	9.27	8.55
16	0 ~ 1.45 psi	Gauge	35mV	482C-03	3.0	1.0ms	—	MPXV10GC7U-ND ***NEW!***	13.02	9.85	9.08
5	0 ~ 1.45 psi	Differential	55mV	344-15	3.0	1.0ms	—	MPX12D-ND ***NEW!***	11.49	8.69	8.01
4	0 ~ 1.45 psi	Differential	55mV	344C-01	3.0	1.0ms	—	MPX12DP-ND	12.45	9.42	8.68
6	0 ~ 1.45 psi	Gauge	55mV	344B-01	3.0	1.0ms	—	MPX12GP-ND ***NEW!***	12.26	9.27	8.55
5	0 ~ 7.25 psi	Differential	60mV	344-15	3.0	1.0ms	—	MPX53D-ND ***NEW!***	10.53	7.97	7.35
4	0 ~ 7.25 psi	Differential	60mV	344C-01	3.0	1.0ms	—	MPX53DP-ND ***NEW!***	11.49	8.69	8.01
6	0 ~ 7.25 psi	Gauge	60mV	344B-01	3.0	1.0ms	—	MPX53GP-ND	11.30	8.55	7.88
Unamplified Temperature Compensated Pressure Sensors											
5	0 ~ 1.45 psi	Differential	25mV	344-15	10.0	1.0ms	0 ~ 85	MPX2010D-ND	13.63	10.49	9.85
4	0 ~ 1.45 psi	Differential	25mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2010DP-ND	13.52	10.46	9.83
6	0 ~ 1.45 psi	Gauge	25mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2010GP-ND	13.54	10.46	9.83
18	0 ~ 1.45 psi	Gauge	25mV	344E-01	10.0	1.0ms	0 ~ 85	MPX2010GS-ND ***NEW!***	13.18	10.86	10.02
7	0 ~ 1.45 psi	Differential	25mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2010D-ND	7.90	5.80	5.40
8	0 ~ 1.45 psi	Gauge	25mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2010GS-ND	7.88	5.79	5.39
21	0 ~ 1.45 psi	Gauge	25mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2010GP-ND ***NEW!***	13.41	10.14	9.35
6	0 ~ 7.25 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2050GP-ND	15.85	12.34	11.61
4	0 ~ 7.25 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2053DP-ND	14.36	10.86	10.02
6	0 ~ 7.25 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2053GP-ND ***NEW!***	13.18	10.86	10.02
7	0 ~ 7.25 psi	Differential	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2053D-ND	7.90	5.80	5.40
8	0 ~ 7.25 psi	Gauge	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2053GS-ND	7.88	5.79	5.39
19	0 ~ 7.25 psi	Gauge	40mV	344D-01	10.0	1.0ms	0 ~ 85	MPX2053GVP-ND ***NEW!***	13.18	10.86	10.02
21	0 ~ 7.25 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2053GP-ND ***NEW!***	13.41	10.14	9.35
5	0 ~ 14.5 psi	Absolute	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2100A-ND ***NEW!***	16.28	12.31	11.35
6	0 ~ 14.5 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2100AP-ND ***NEW!***	17.04	12.89	11.89
5	0 ~ 14.5 psi	Differential	40mV	344-01	10.0	1.0ms	0 ~ 85	MPX2100D-ND ***NEW!***	16.28	12.31	11.35
4	0 ~ 14.5 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2100DP-ND	17.24	13.04	12.02
6	0 ~ 14.5 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2100GP-ND	17.04	12.89	11.89
5	0 ~ 14.5 psi	Absolute	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2102A-ND ***NEW!***	14.36	10.86	10.02
6	0 ~ 14.5 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2102AP-ND ***NEW!***	13.18	10.86	10.02
20	0 ~ 14.5 psi	Absolute	40mV	344F-01	10.0	1.0ms	0 ~ 85	MPX2102ASX-ND ***NEW!***	13.18	10.86	10.02
5	0 ~ 14.5 psi	Differential	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2102D-ND ***NEW!***	14.36	10.86	10.02
4	0 ~ 14.5 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2102DP-ND ***NEW!***	13.18	10.86	10.02
6	0 ~ 14.5 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2102GP-ND ***NEW!***	13.18	10.86	10.02
19	0 ~ 14.5 psi	Gauge	40mV	344D-01	10.0	1.0ms	0 ~ 85	MPX2102GVP-ND ***NEW!***	13.18	10.86	10.02
21	0 ~ 14.5 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2102GP-ND ***NEW!***	13.41	10.14	9.35
7	0 ~ 14.5 psi	Absolute	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2102A-ND	7.90	5.80	5.40
8	0 ~ 14.5 psi	Absolute	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2102AS-ND	7.88	5.79	5.39
7	0 ~ 14.5 psi	Differential	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2102D-ND	7.90	5.80	5.40
8	0 ~ 14.5 psi	Gauge	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2102GS-ND	7.88	5.79	5.39
5	0 ~ 29 psi	Absolute	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2200A-ND ***NEW!***	16.28	12.31	11.35
6	0 ~ 29 psi	Absolute	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2200AP-ND ***NEW!***	17.04	12.89	11.89
5	0 ~ 29 psi	Differential	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2200D-ND	16.28	12.31	11.35
4	0 ~ 29 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2200DP-ND ***NEW!***	17.24	13.04	12.02
21	0 ~ 29 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2200GP-ND	15.85	12.34	11.61
20	0 ~ 29 psi	Absolute	40mV	344F-01	10.0	1.0ms	0 ~ 85	MPX2202ASX-ND ***NEW!***	11.42	9.42	8.68
5	0 ~ 29 psi	Differential	40mV	344-15	10.0	1.0ms	0 ~ 85	MPX2202D-ND ***NEW!***	11.42	9.42	8.68
4	0 ~ 29 psi	Differential	40mV	344C-01	10.0	1.0ms	0 ~ 85	MPX2202DP-ND ***NEW!***	12.30	10.14	9.35
6	0 ~ 29 psi	Gauge	40mV	344B-01	10.0	1.0ms	0 ~ 85	MPX2202GP-ND ***NEW!***	13.21	10.00	9.22
7	0 ~ 29 psi	Absolute	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2202A-ND	7.90	5.80	5.40
8	0 ~ 29 psi	Absolute	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2202AS-ND	7.88	5.79	5.39
7	0 ~ 29 psi	Differential	40mV	MPAK	10.0	1.0ms	0 ~ 85	MPXM2202D-ND	7.90	5.80	5.40
8	0 ~ 29 psi	Gauge	40mV	Ported MPAK	10.0	1.0ms	0 ~ 85	MPXM2202GS-ND	7.88	5.79	5.39
21	0 ~ 29 psi	Gauge	40mV	1369-01	10.0	1.0ms	0 ~ 85	MPXV2202GP-ND ***NEW!***	13.41	10.14	9.35

*Response time is defined as the time for the incremental change in output to go from 10% to 90% of its final value when subjected to a specified step change in pressure.

(Continued)

Operating Temperature Range: -40°C ~ 125°C

Fig.	Pressure	Pressure Type	Output	Package	Supply (VDC)	Response Time*	Compensated Temp. Range (°C)	Digi-Key Part No.	Price Each 1	25	100
Amplified Temperature Compensated Pressure Sensors											
9	0 ~ 0.57 psi	Gauge	4.9V	482A-01	5.0	—	0 ~ 85	MPXV5004GC6U-ND	18.19	14.31	13.48
13	0 ~ 0.57 psi	Gauge	4.9V	482-01	5.0	—	10 ~ 60	MPXV5004G6U-ND ***NEW!***	17.57	13.78	12.98
17	0 ~ 0.57 psi	Gauge	4.9V	482B-03	5.0	—	10 ~ 60	MPXV5004G7U-ND ***NEW!***	17.57	13.78	12.98
9	0 ~ 0.57 psi	Gauge	4.9V	482A-01	5.0	—	10 ~ 60	MPXV5004GC6T1CT-ND ***NEW!***	19.92	15.06	—
9	0 ~ 0.57 psi	Gauge	4.9V	482A-01	5.0	—	10 ~ 60	MPXV5004GC6T1TR-ND ***NEW!***	1349.92/100		
16	0 ~ 0.57 psi	Gauge	4.9V	482C-03	5.0	—	10 ~ 60	MPXV5004GC7U-ND ***NEW!***	18.27	14.34	13.50
21	0 ~ 0.57 psi	Gauge	4.9V	1369-01	5.0	—	10 ~ 60	MPXV5004GP-ND ***NEW!***	18.27	14.34	13.50
23	0 ~ 0.57 psi	Gauge	4.9V	1368-01	5.0	—	10 ~ 60	MPXV5004GVP-ND ***NEW!***	18.27	14.34	13.50
17	0 ~ 0.87 psi	Gauge	4.6V	482B-03	5.0	—	10 ~ 60	MPXV4006G7U-ND ***NEW!***	17.57	13.78	12.98
16	0 ~ 0.87 psi	Gauge	4.6V	482C-03	5.0	—	10 ~ 60	MPXV4006GC7U-ND ***NEW!***	18.27	14.34	13.50
21	0 ~ 0.87 psi	Gauge	4.6V	1369-01	5.0	—	10 ~ 60	MPXV4006GP-ND ***NEW!***	17.57	13.78	12.98
10	0 ~ 1.45 psi	Differential	4.5V	867C-05	5.0	1.0ms	-40 ~ 125	MPX5010DP-ND	18.34	14.44	13.61
11	0 ~ 1.45 psi	Gauge	4.5V	867B-04	5.0	1.0ms	-40 ~ 125	MPX5010GP-ND	18.19	14.31	13.48
12	0 ~ 1.45 psi	Differential	4.5V	867-08	5.0	1.0ms	-40 ~ 125	MPX5010D-ND ***NEW!***	17.57	13.78	12.98
21	0 ~ 1.45 psi	Gauge	4.5V	1369-01	5.0	1.0ms	-40 ~ 125	MPXV5010GP-ND ***NEW!***	17.57	13.78	12.98
12	0 ~ 7.25 psi	Differential	4.5V	867-08	5.0	1.0ms	-40 ~ 125	MPX5050D-ND	17.57	13.78	12.98
10	0 ~ 7.25 psi	Differential	4.5V	867C-05	5.0	1.0ms	-40 ~ 125	MPX5050DP-ND	18.34	14.44	13.61
11	0 ~ 7.25 psi	Gauge	4.5V	867B-04	5.0	1.0ms	-40 ~ 125	MPX5050GP-ND	18.19	14.31	13.48
21	0 ~ 7.25 psi	Gauge	4.5V	1369-01	5.0	1.0ms	-40 ~ 125	MPXV5050GP-ND ***NEW!***	17.57	13.78	12.98
12	0 ~ 11.6 psi	Differential	4.3V	867-08	5.1	—	-40 ~ 105	MPX4080D-ND ***NEW!***	17.57	13.78	12.98
11	0 ~ 14.5 psi	Absolute	4.7V	867B-04	5.0	1.0ms	0 ~ 85	MPX5100AP-ND	17.49	13.76	12.97
12	0 ~ 14.5 psi	Differential	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5100D-ND ***NEW!***	17.57	13.78	12.98
10	0 ~ 14.5 psi	Differential	4.7V	867C-05	5.0	1.0ms	0 ~ 85	MPX5100DP-ND	17.47	13.75	12.96
11	0 ~ 14.5 psi	Gauge	4.7V	867B-04	5.0	1.0ms	0 ~ 85	MPX5100GP-ND	17.49	13.76	12.97
9	0 ~ 14.5 psi	Gauge	4.7V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV5100GC6U-ND ***NEW!***	17.57	13.78	12.98
12	0 ~ 36.3 psi	Differential	4.7V	867-08	5.1	1.0ms	-40 ~ 125	MPX4250D-ND ***NEW!***	17.57	13.78	12.98
10	0 ~ 36.3 psi	Differential	4.7V	867C-05	5.0	1.0ms	-40 ~ 125	MPX4250DP-ND	18.45	14.47	13.63
12	0 ~ 72.5 psi	Differential	4.5V	867-08	5.0	1.0ms	-40 ~ 125	MPX5500D-ND ***NEW!***	17.57	13.78	12.98
12	0 ~ 101.5 psi	Differential	4.5V	867-08	5.0	1.0ms	-40 ~ 125	MPX5700D-ND ***NEW!***	17.57	13.78	12.98
10	0 ~ 101.5 psi	Differential	4.5V	867C-05	5.0	1.0ms	-40 ~ 125	MPX5700DP-ND	17.47	13.75	12.96
11	0 ~ 101.5 psi	Gauge	4.5V	867B-04	5.0	1.0ms	-40 ~ 125	MPX5700GP-ND	17.49	13.76	12.97
12	0 ~ 150 psi	Differential	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5999D-ND	17.57	13.78	12.98
12	2.2 ~ 15.2 psi	Absolute	4.6V	867-08	5.1	1.0ms	-40 ~ 125	MPX4105A-ND ***NEW!***	17.57	13.78	12.98
12	2.2 ~ 16.7 psi	Absolute	4.6V	867-08	5.1	1.0ms	-40 ~ 125	MPX4115A-ND	17.57	13.78	12.98
11	2.2 ~ 16.7 psi	Absolute	4.6V	867B-04	5.1	1.0ms	-40 ~ 125	MPX4115AP-ND	18.19	14.31	13.48
13	2.2 ~ 16.7 psi	Absolute	4.6V	482-01	5.1	1.0ms	-40 ~ 125	MPXA4115A6U-ND	17.57	13.78	12.98
9	2.2 ~ 16.7 psi	Absolute	4.6V	482A-01	5.1	1.0ms	-40 ~ 125	MPXA4115AC6U-ND	17.49	13.76	12.97
12	2.2 ~ 16.7 psi	Absolute	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5100A-ND ***NEW!***	17.57	13.78	12.98
13	2.2 ~ 16.7 psi	Absolute	4.5V	482-01	5.0	1.0ms	-40 ~ 125	MPXA6115A6U-ND	17.57	13.78	12.98
9	2.2 ~ 16.7 psi	Absolute	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXA6115AC6U-ND	17.49	13.76	12.97
13	2.2 ~ 16.7 psi	Absolute	4.8V	482-01	5.1	1.0ms	-40 ~ 125	MPXAZ4115A6U-ND	17.80	13.98	13.17
9	2.2 ~ 16.7 psi	Absolute	4.8V	482A-01	5.1	1.0ms	-40 ~ 125	MPXAZ4115AC6U-ND	18.42	14.50	13.67
15	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXH6115A6T1CT-ND	15.32	11.59	10.68
15	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXH6115A6T1TR-ND	9816.00/1,000		
11	2.2 ~ 16.7 psi	Absolute	4.6V	867B-04	5.1	1.0ms	-40 ~ 125	MPXA4115AP-ND ***NEW!***	17.57	13.78	12.98
13	2.2 ~ 16.7 psi	Absolute	4.5V	482-01	5.0	1.0ms	-40 ~ 125	MPXAZ6115A6U-ND ***NEW!***	17.57	13.78	12.98
9	2.2 ~ 16.7 psi	Absolute	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXAZ6115AC6U-ND ***NEW!***	17.57	13.78	12.98
15	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXHZ6115A6U-ND ***NEW!***	15.32	11.59	10.68
22	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXHZ6115AC6T1CT-ND ***NEW!***	15.32	11.59	10.68
22	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXHZ6115AC6T1TR-ND ***NEW!***	3014.40/300		
22	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-03	5.0	1.0ms	-40 ~ 125	MPXHZ6115AC6U-ND ***NEW!***	15.32	11.59	10.68
15	2.2 ~ 16.7 psi	Absolute	4.5V	1317-04	5.0	1.0ms	-40 ~ 125	MPXH6115A6U-ND ***NEW!***	15.32	11.59	10.68
22	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6115AC6T1CT-ND ***NEW!***	16.09	12.17	11.22
22	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6115AC6T1TR-ND ***NEW!***	3165.12/300		
22	2.2 ~ 16.7 psi	Absolute	4.5V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6115AC6U-ND ***NEW!***	16.09	12.17	11.22
13	2.9 ~ 15.2 psi	Absolute	4.9V	482-01	5.1	1.0ms	-40 ~ 125	MPXAZ4100A6U-ND	17.80	13.98	13.17
9	2.9 ~ 15.2 psi	Absolute	4.9V	482A-01	5.1	1.0ms	-40 ~ 125	MPXAZ4100AC6U-ND	18.42	14.50	13.67
11	2.9 ~ 15.2 psi	Absolute	4.8V	867B-04	5.1	1.0ms	0 ~ 85	MPX4100AP-ND	18.19	14.31	13.48
13	2.9 ~ 15.2 psi	Absolute	4.8V	482-01	5.1	1.0ms	-40 ~ 125	MPXA4100A6U-ND	17.57	13.78	12.98
9	2.9 ~ 15.2 psi	Absolute	4.8V	482A-01	5.1	1.0ms	-40 ~ 125	MPXA4100AC6U-ND	17.49	13.76	12.97
12	2.9 ~ 15.2 psi	Absolute	4.9V	867-08	5.0	1.0ms	-40 ~ 125	MPX4100A-ND	17.57	13.78	12.98
12	2.9 ~ 36.3 psi	Absolute	4.7V	867-08	5.1	1.0ms	-40 ~ 125	MPX4250A-ND ***NEW!***	17.57	13.78	12.98
11	2.9 ~ 36.3 psi	Absolute	4.7V	867B-04	5.1	1.0ms	-40 ~ 125	MPX4250AP-ND	18.19	14.31	13.48
13	2.9 ~ 36.3 psi	Absolute	4.7V	482-01	5.1	1.0ms	-40 ~ 125	MPXA4250A6U-ND	17.57	13.78	12.98
9	2.9 ~ 36.3 psi	Absolute	4.7V	482A-01	5.1	1.0ms	-40 ~ 125	MPXA4250AC6U-ND	17.49	13.76	12.97
9	2.18 ~ 14.8 psi	Absolute	4.7V	482A-01	5.1	15.0ms	-40 ~ 125	MPXA4101AC6U-ND	17.49	13.76	12.97
15	2.18 ~ 14.8 psi	Absolute	4.7V	1317-04	5.1	15.0ms	-40 ~ 125	MPXH6101A6T1CT-ND ***NEW!***	15.32	11.03	10.39
15	2.18 ~ 14.8 psi	Absolute	4.7V	1317-04	5.1	15.0ms	-40 ~ 125	MPXH6101A6T1TR-ND ***NEW!***	9816.00/1,000		
15	2.18 ~ 14.8 psi	Absolute	4.7V	1317-04	5.1	15.0ms	-40 ~ 125	MPXH6101A6U-ND ***NEW!***	15.32	11.59	10.68
12	2.18 ~ 101.5 psi	Absolute	4.7V	867-08	5.0	1.0ms	-40 ~ 125	MPX5700A-ND ***NEW!***	17.57	13.78	12.98
15	3.0 ~ 36 psi	Absolute	4.7V	1317-04	5.1	1.0ms	-40 ~ 125	MPXH6250A6U-ND ***NEW!***	15.32	11.59	10.68
22	3.0 ~ 36 psi	Absolute	4.7V	1317A-01	5.1	1.0ms	-40 ~ 125	MPXH6250AC6U-ND ***NEW!***	15.32	11.59	10.68
15	3.0 ~ 42 psi	Absolute	4.6V	1317-04	5.1	1.0ms	-40 ~ 125	MPXH6300A6U-ND ***NEW!***	15.32	11.59	10.68
22	3.0 ~ 42 psi	Absolute	4.6V	1317A-01	5.1	1.0ms	-40 ~ 125	MPXH6300AC6U-ND ***NEW!***	16.09	12.17	11.22
22	3.0 ~ 58 psi	Absolute	4.6V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6400AC6T1CT-ND ***NEW!***	16.09	12.17	11.22
22	3.0 ~ 58 psi	Absolute	4.6V	1317A-01	5.0	1.0ms	-40 ~ 125	MPXH6400AC6T1TR-ND ***NEW!***	3165.12/300		
9	-16.7 ~ 2.2 psi	Differential	4.6V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV4115VC6U-ND ***NEW!***	17.57	13.78	12.98
9	-16.7 ~ 2.2 psi	Differential	4.4V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV6115VC6U-ND ***NEW!***	17.57	13.78	12.98
9	-7.25 ~ 0 psi	Differential	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV5050VC6T1CT-ND ***NEW!***	19.15	14.48	—
9	-7.25 ~ 0 psi	Differential	4.5V	482A-01	5.0	1.0ms	-40 ~ 125	MPXV5050VC6T1TR-ND ***NEW!***	1298.00/100		
14	0 ~ 637.5 KPA	Absolute	Vdd-0.8	8-TPMP	3.0	0.1ms	-40 ~ 125	MPXY8020A6T1CT-ND	18.27	14.34	13.50
14	0 ~ 637.5 KPA	Absolute	Vdd-0.8	8-TPMP	3.0	0.1ms	-40 ~ 125	MPXY8020A6T1TR-ND	12760.80/1,000		

*Response time is defined as the time for the incremental change in output to go from 10% to 90% of its final value when subjected to a specified step change in pressure.

Fig.	Pressure	Pressure Type	Output	Supply (VDC)	Compensated Temperature	Operating Temperature	Digi-Key Part No.	Price Each			All Sensors Part No.
								1	25	100	
Amplified with Voltage Reference Low Pressure											
1	±20	In H2O	4V	5.5 ~ 16	5°C ~ 50°C	-25°C ~ 85°C	442-1007-ND	99.00	77.50	74.40	20 INCH-D-4V-REF
	0-20	In H2O					442-1008-ND	99.00	75.00	72.00	20 INCH-G-4V-REF
	0-30	In H2O					442-1010-ND	99.00	75.00	72.00	30 INCH-G-4V-REF
Amplified Low Pressure											
1	±1	mbar	4V	3 ~ 6	5°C ~ 50°C	-25°C ~ 85°C	442-1011-ND	98.00	73.01	59.00	1 MBAR-D-4V
	±1	In H2O					442-1012-ND	88.00	73.00	59.00	1 INCH-D-4V
	0-1	In H2O					442-1013-ND	98.00	73.01	59.00	1 INCH-G-4V
	±5	In H2O					442-1014-ND	88.00	68.00	54.00	5 INCH-D-4V
	0-5	In H2O					442-1015-ND	88.00	68.00	54.00	5 INCH-G-4V
	±10	In H2O					442-1016-ND	84.00	68.00	54.00	10 INCH-D-4V
	0-10	In H2O					442-1017-ND	84.00	68.00	54.00	10 INCH-G-4V
	±20	In H2O					442-1018-ND	84.00	68.00	54.00	20 INCH-D-4V
	0-20	In H2O					442-1019-ND	84.00	68.00	54.00	20 INCH-G-4V
	±30	In H2O					442-1020-ND	84.00	68.00	54.00	30 INCH-D-4V
	0-30	In H2O					442-1021-ND	84.00	68.00	54.00	30 INCH-G-4V
Amplified Middle Pressure											
1	±0.3	PSID	4V	3 ~ 7	5°C ~ 50°C	-25°C ~ 85°C	442-1022-ND	78.00	64.00	49.00	0.3 PSI-D-4V
	0-0.3	PSIG					442-1023-ND	78.00	64.00	49.00	0.3 PSI-G-4V
	±1	PSID					442-1024-ND	78.00	64.00	49.00	1 PSI-D-4V
	0-1	PSIG					442-1025-ND	78.00	59.00	46.80	1 PSI-G-4V
	0-15	PSIA					442-1026-ND	76.00	59.00	45.60	15 PSI-A-4V
	0-15	PSIG					442-1027-ND	76.00	59.00	45.60	15 PSI-G-4V
Barometric Pressure											
1	600-1100	mbar	4V	4.5 ~ 5.5	5°C ~ 50°C	-40°C ~ 125°C	442-1089-ND	79.00	64.00	56.88	BARO-A-4V
					-25°C ~ 85°C		442-1090-ND	94.00	76.00	67.68	BARO-A-4V-PRIME
					-40°C ~ 125°C		442-1091-ND	153.00	124.00	110.16	BARO-A-4V-MIL
3	600-1100	mbar	Digital/ Serial	7	-20°C ~ 85°C	-20°C ~ 105°C	442-1097-ND	140.00	—	—	BARO-DO
					-40°C ~ 125°C	-40°C ~ 125°C	442-1098-ND	280.00	—	—	BARO-DO-MIL
4B	600-1100	mbar	4.5 ~ 5.5V	4.5 ~ 75.5	5°C ~ 50°C	-25°C ~ 85°C	442-1092-ND	69.00	56.00	49.68	BARO-A-4V-MINI
					-25°C ~ 85°C		442-1093-ND	86.00	68.00	61.92	BARO-A-4V-MINI-PRIME
					-40°C ~ 125°C		442-1094-ND	145.00	115.00	104.40	BARO-A-4V-MINI-MIL
Millivolt Output C-Grade Pressure											
2	0-4	In H2O	40mV	16	0°C ~ 70°C	-25°C ~ 85°C	442-1028-ND	38.00	32.00	27.00	4 INCH-D-CGRADE-MV
	0-0.3	PSID	20mV				442-1029-ND	34.00	32.00	27.00	0.3 PSI-D-CGRADE-MV
	0-1	PSID	18mV				442-1030-ND	32.00	27.00	24.00	1 PSI-D-CGRADE-MV
	0-15	PSIA	60mV				442-1031-ND	29.00	27.00	24.00	15 PSI-A-CGRADE-MV
Millivolt Output H-Grade Pressure											
2	0-0.3	PSID	20mV	16	0°C ~ 70°C	-25°C ~ 85°C	442-1032-ND	36.00	34.00	29.00	0.3 PSI-D-HGRADE-MV
	0-1	PSID	18mV				442-1033-ND	36.00	34.00	29.00	1 PSI-D-HGRADE-MV
	0-5	PSID	60mV				442-1034-ND	32.00	29.00	26.00	5 PSI-D-HGRADE-MV
	0-15	PSID	90mV				442-1035-ND	32.00	29.00	26.00	15 PSI-D-HGRADE-MV
	0-15	PSIA	60mV				442-1036-ND	30.00	29.00	26.00	15 PSI-A-HGRADE-MV
Millivolt Output Low Pressure											
2	0-1	In H2O	10mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1037-ND	65.00	55.86	42.66	1 INCH-D-MV
	0-5		20mV				442-1038-ND	62.00	52.00	39.00	5 INCH-D-MV
	0-10		20mV				442-1039-ND	62.00	52.00	39.00	10 INCH-D-MV
	0-20		20mV				442-1040-ND	62.00	52.00	39.00	20 INCH-D-MV
	0-30		20mV				442-1041-ND	62.00	52.00	39.00	30 INCH-D-MV
Millivolt Output Prime Grade Pressure											
2	0-0.3	PSID	20mV	16	0°C ~ 70°C	-25°C ~ 85°C	442-1042-ND	59.00	49.85	37.64	0.3 PSI-D-PRIME-MV
	0-1	PSID	18mV				442-1043-ND	59.00	49.00	37.01	1 PSI-D-PRIME-MV
	0-15	PSIA	60mV				442-1044-ND	54.00	44.00	39.00	15 PSI-A-PRIME-MV
Miniature Basic Offset Compensated Pressure											
4A	0-1	In H2O	4.0 ~ 10.0mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1045-ND	36.00	34.00	30.01	1 INCH-G-BASIC
	0-5		15 ~ 30mV				442-1048-ND	32.00	29.00	26.00	5 INCH-G-BASIC
	0-10		15 ~ 45mV				442-1051-ND	32.00	29.00	26.00	10 INCH-G-BASIC
	0-20		15 ~ 45mV				442-1054-ND	32.00	29.00	26.00	20 INCH-G-BASIC
	0-30		15 ~ 45mV				442-1057-ND	32.00	29.00	26.00	30 INCH-G-BASIC
	0-1	In H2O	4.0 ~ 10.0mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1046-ND	38.00	35.00	31.00	1 INCH-D1-BASIC
	0-5		15 ~ 30mV				442-1049-ND	34.00	30.00	23.00	5 INCH-D1-BASIC
	0-10		15 ~ 45mV				442-1052-ND	34.00	30.00	23.00	10 INCH-D1-BASIC
	0-20		15 ~ 45mV				442-1055-ND	34.00	30.00	23.00	20 INCH-D1-BASIC
	0-30		15 ~ 45mV				442-1058-ND	34.00	30.00	23.00	30 INCH-D1-BASIC
	0-1	In H2O	4.0 ~ 10.0mV	6	0°C ~ 70°C	-25°C ~ 85°C	442-1047-ND	40.00	37.00	32.00	1 INCH-D2-BASIC
	0-5		15 ~ 30mV				442-1050-ND	35.00	31.00	28.00	5 INCH-D2-BASIC
	0-10		15 ~ 45mV				442-1053-ND	35.00	31.00	28.00	10 INCH-D2-BASIC
	0-20		15 ~ 45mV				442-1056-ND	35.00	31.00	28.00	20 INCH-D2-BASIC
	0-30		15 ~ 45mV				442-1059-ND	35.00	31.00	28.00	30 INCH-D2-BASIC
Miniature Low Pressure											
4A	0-5	In H2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1077-ND	54.00	44.00	39.00	5 INCH-G-MV-MINI
	0-10						442-1080-ND	54.00	44.00	39.00	10 INCH-G-MV-MINI
	0-20						442-1083-ND	54.00	44.00	39.00	20 INCH-G-MV-MINI
	0-30						442-1086-ND	54.00	44.00	39.00	30 INCH-G-MV-MINI
	0-5	In H2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1078-ND	55.00	45.00	33.00	5 INCH-D1-MV-MINI
	0-10						442-1081-ND	55.00	45.00	33.00	10 INCH-D1-MV-MINI
	0-20						442-1084-ND	55.00	45.00	33.00	20 INCH-D1-MV-MINI
	0-30						442-1087-ND	55.00	45.00	33.00	30 INCH-D1-MV-MINI
	0-5	In H2O	19 ~ 21mV	16	0°C ~ 50 (70)°C	-25°C ~ 85°C	442-1079-ND	55.00	45.00	33.00	5 INCH-D2-MV-MINI
	0-10						442-1082-ND	55.00	45.00	33.00	10 INCH-D2-MV-MINI
	0-20						442-1085-ND	55.00	45.00	33.00	20 INCH-D2-MV-MINI
	0-30						442-1088-ND	55.00	45.00	33.00	30 INCH-D2-MV-MINI
Miniature H-Grade Pressure											
5	0-4	In H2O	24 ~ 26mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1060-ND	38.00	34.00	29.01	4 INCH-G-HGRADE-MINI
	0-0.3	PSIG	19 ~ 21mV				442-1063-ND	36.00	34.00	29.00	0.3 PSI-G-HGRADE-MINI
	0-10	In H2O	19 ~ 21mV				442-1066-ND	36.00	34.00	29.00	10 INCH-G-HGRADE-MINI
	0-1	PSIG	17.82 ~ 18.18mV				442-1069-ND	36.00	34.00	29.00	1 PSI-G-HGRADE-MINI
	0-5	PSIG	59.4 ~ 60.6mV				442-1072-ND	32.00	29.00	26.00	5 PSI-G-HGRADE-MINI
	0-15	PSIA	89.1 ~ 90.9mV				442-1075-ND	32.00	29.00	26.00	15 PSI-A-HGRADE-MINI
6	0-4	In H2O	24 ~ 26mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1061-ND	38.00	34.00	29.01	4 INCH-GF-HGRADE-MINI
	0-0.3	PSIG	19 ~ 21mV				442-1064-ND	36.00	34.00	29.00	0.3 PSI-GF-HGRADE-MINI
	0-10	In H2O	19 ~ 21mV				442-1067-ND	36.00	34.00	29.00	10 INCH-GF-HGRADE-MINI
	0-1	PSIG	17.82 ~ 18.18mV				442-1070-ND	36.00	34.00	29.00	1 PSI-GF-HGRADE-MINI
	0-5	PSIG	59.4 ~ 60.6mV				442-1073-ND	32.00	29.00	26.00	5 PSI-GF-HGRADE-MINI
	0-15	PSIA	89.1 ~ 90.9mV				442-1076-ND	32.00	29.00	26.00	15 PSI-AF-HGRADE-MINI
7	0-4	In H2O	24 ~ 26mV	16	0°C ~ (50) 70°C	-25°C ~ 85°C	442-1062-ND	40.00	35.00	31.00	4 INCH-D-HGRADE-MINI
	0-0.3	PSID	19 ~ 21mV				442-1065-ND	38.00	35.00	31.00	0.3 PSI-D-HGRADE-MINI
	0-10	In H2O	19 ~ 21mV				442-1068-ND	38.00	35.00	31.00	10 INCH-D-HGRADE-MINI
	0-1	PSID	17.82 ~ 18.18mV				442-1071-ND	37.00	35.00	31.00	1 PSI-D-HGRADE-MINI
	0-5	PSID	59.4 ~ 60.6mV				442-1074-ND	34.00	31.00	28.00	5 PSI-D-HGRADE-MINI

Fig. 1

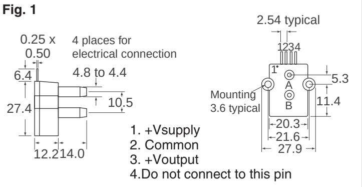

1. +Vsupply
2. Common
3. +Voutput
4.Do not connect to this pin

Fig. 2

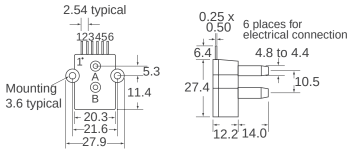

1.N/C
2. +Vsupply
3. +Voutput
4. -Vsupply
5. -Voutput
6. N/C

Fig. 3

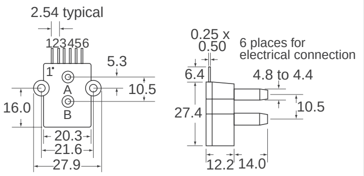

1. Vcc
2. Data/SI
3. Clock/SO
4. Ready/Mode
5. Convert/BR
6. Ground

Fig. 4

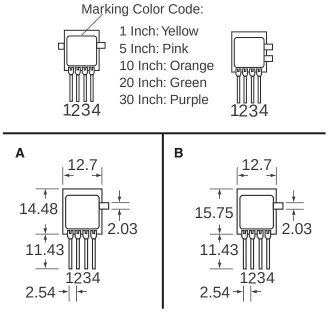

Marking Color Code:
1 Inch: Yellow
5 Inch: Pink
10 Inch: Orange
20 Inch: Green
30 Inch: Purple

Fig. 5

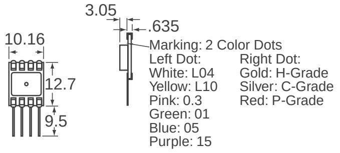

Marking: 2 Color Dots
Left Dot:
White: L04
Yellow: L10
Pink: 0.3
Green: 01
Blue: 05
Purple: 15
Right Dot:
Gold: H-Grade
Silver: C-Grade
Red: P-Grade

Fig. 6 — Single Pressure Port

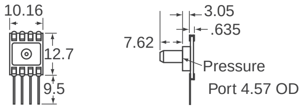

Fig. 7 — Dual Pressure Ports

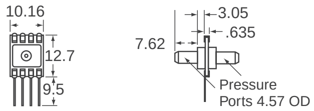

LEM Closed Loop Current Transducers

LTS 6-NP, LTS 15-NP and LTS 25-NP: Closed loop (compensated) multi-range current transducer using the Hall effect, unipolar voltage supply, compact design for PCB mounting, insulated plastic case recognized according to UL 94-VO, incorporated measuring resistance, and extended measuring range.

LA 03-PB, LA 05-PB, LA 10-PB, and LA 20-PB: Closed loop (compensation) current transducer using the Hall effect, voltage output, and printed circuit board mounting.

LAH 25-NP, LAH 50-P, LAH 100-P, LA 55-P, and LA 100-P: Closed loop (compensated) multi-range current transducer using the Hall effect, printed circuit board mounting, insulated plastic case recognized according to UL 94-VO.
LA 150-P: Closed loop (compensated) current transducer using the Hall effect, and printed circuit board mounting.

Fig.	Supply Voltage	Primary Nom. r.m.s. Current	Sec. Nom. r.m.s Current/ Output Voltage	Frequency Range (kHz)	Digi-Key Part No.	Price Each 1	10	25	LEM USA Inc. Part No.
1	5V	6A	2.5±V	200	398-1000-ND	20.20	16.16	12.93	LTS 6-NP
	5V	15A	2.5±V	200	398-1001-ND	20.20	16.16	12.93	LTS 15-NP
	5V	25A	2.5±V	200	398-1002-ND	20.20	16.16	12.93	LTS 25-NP
2	±15V	20A	±4V	150	398-1006-ND	37.60	30.08	24.07	LA 20-PB
3	±12 ~ 15V	25A	25mA	200	398-1007-ND	28.40	22.72	18.18	LAH 25-NP
	±12 ~ 15V	50A	25mA	200	398-1008-ND	30.40	24.32	19.46	LAH 50-P
	±12 ~ 15V	100A	50mA	200	398-1009-ND	33.00	26.40	21.12	LAH 100-P
4	±12 ~ 15V	50A	50mA	200	398-1010-ND	26.00	20.80	16.64	LA 55-P
	±12 ~ 15V	100A	50mA	200	398-1011-ND	32.40	25.92	20.74	LA 100-P
5	±15V	150A	75mA	150	398-1012-ND	38.20	30.56	24.45	LA 150-P

Fig. 1

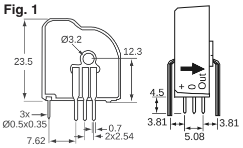

Fig. 2

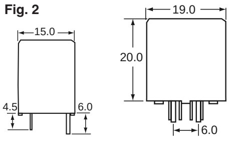

Fig. 3

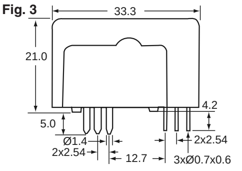

Fig. 4

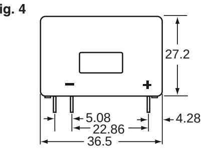

Fig. 5

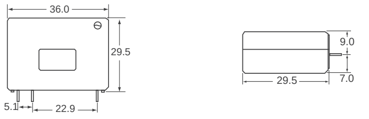

Closed Loop Voltage Transducers

LV 25-P and LV 20-P:

Closed loop (compensated) voltage transducer using the Hall effect, and insulated plastic case recognized according to UL 94-VO.

Supply Voltage	Primary Nom. r.m.s. Current	Sec. Nom. r.m.s Current/ Output Voltage	Overall Accuracy	Digi-Key Part No.	Price Each 1	10	25	LEM USA Inc. Part No.
±12 ~ 15V	10mA	25mA	±0.9%	398-1019-ND	63.20	50.56	40.45	LV 25-P
±12 ~ 15V	10mA	25mA	±1.1%	398-1020-ND	36.60	29.28	23.43	LV 20-P

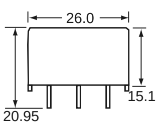

CUI INC Current Sensors

The SCD series current sensors are PC board mounted, Hall effect, open-loop devices which output a voltage equivalent to the magnitude of current sensed. Two basic sensing types are offered. Both are capable of measuring AC currents: **1.** -XXN for detecting DC current and AC currents where ± input currents are represented as a + voltage only. **2.** -XXR for detecting DC current and AC currents. ± input currents are represented as ± voltage.

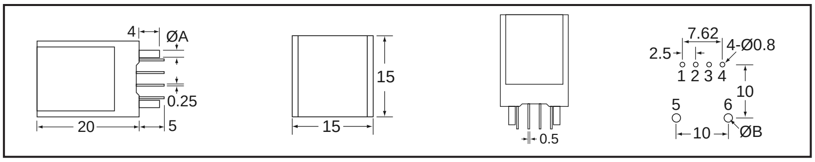

Pin Assignment	
Pin No.	**Pin Name**
1	+5V
2	NC
3	Output
4	0V
5	Input (+)
6	Input (-)

Mounting Hole Dimensions		
Part No.	**øA**	**øB**
SCD05	1.0	1.5
SCD10	1.2	1.7
SCD15	1.5	2.0
SCD20	1.8	2.3

Rated Current	Output Voltage	Supply Voltage	Input Current Polarity	Response	Operating Temperature	Digi-Key Part No.	Price Each 1	10	25	CUI Part No.
+10A	2.3V	5V	+DC only	7µS typ.	-10°C ~ 75°C	102-1052-ND	20.75	16.60	13.28	SCD10PUN
+10A	5V	12V	+DC only	3µS typ.	-10°C ~ 75°C	102-1062-ND	20.75	16.60	13.28	SCD10PSN
±15A	5V	12V	Bipolar	3µS typ.	-10°C ~ 75°C	102-1068-ND	20.75	16.60	13.28	SCD15PSR

AMVECO TOROIDAL POWER PRODUCTS Current Transformer

Standard Accuracy Low-Cost 50/60 Hz

Applications:

- Sensing current overload
- Ground fault detection
- Metering

Notes:

- RCF: Ratio Correction Factor. Multiply current readings by this factor to compensate for transformer losses.
- Data is deemed reliable at the time of publication, but may be subject to change without notice.

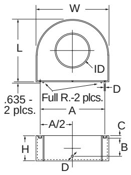

Size Code	Dimensions – mm W	L	H	A	B	C	D (Dia.)	ID
A	23.83	23.83	11.13	15.24	7.62	1.75	0.81	9.53
B	30.18	30.18	14.30	20.32	10.16	2.08	1.02	11.43
C	34.93	34.93	14.30	25.40	10.16	2.08	1.02	14.61
D	38.10	38.10	15.88	30.48	10.16	2.84	1.02	14.61
E	44.45	44.45	14.30	35.56	10.16	2.08	1.02	19.05
F	55.58	55.58	20.65	45.72	12.70	3.96	1.02	23.88

Size Code	Rated Ip Amps	Turns Ratio	Nominal DCR	RCF @ 10% (1)	Volts/Amp @ Rated Ip, for Various Loads (Ohms) 100	500	2K	5K	Digi-Key Part No.	Price Each 1	10	25	Amveco Part No.
A	5.0	1000:1	39	1.040	0.10	0.45	1.35	1.8	TE1005-ND	7.80	6.50	5.20	AC-1005
A	10.0	1000:1	39	1.035	0.10	0.45	1.00	1.3	TE1010-ND	7.80	6.50	5.20	AC-1010
A	15.0	1000:1	39	1.030	0.10	0.43	0.80	1.0	TE1015-ND	7.80	6.50	5.20	AC-1015
A	20.0	1000:1	39	1.030	0.10	0.42	0.70	0.8	TE1020-ND	7.80	6.50	5.20	AC-1020
B	25.0	1000:1	46	1.020	0.10	0.40	1.00	1.2	TE1025-ND	9.21	7.68	6.14	AC-1025
B	30.0	1000:1	46	1.020	0.10	0.40	0.85	1.1	TE1030-ND	9.21	7.68	6.14	AC-1030
C	40.0	1000:1	46	1.020	0.10	0.45	0.75	1.0	TE1040-ND	10.74	8.95	7.16	AC-1040
C	50.0	1000:1	46	1.020	0.10	0.44	0.70	0.8	TE1050-ND	10.74	8.95	7.16	AC-1050
D	60.0	1000:1	23	1.020	0.10	0.36	0.60	0.7	TE1060-ND	11.76	9.80	7.84	AC-1060
D	75.0	1000:1	23	1.015	0.10	0.35	0.50	0.6	TE1075-ND	11.76	9.80	7.84	AC-1075
E	100	1000:1	20	1.015	0.10	0.35	0.50	0.6	TE1100-ND	11.76	9.80	7.84	AC-1100
F	150	1000:1	10	1.010	0.10	0.32	0.55	0.6	TE1150-ND	15.99	13.33	10.66	AC-1150
F	200	1000:1	10	1.010	0.10	0.30	0.45	0.6	TE1200-ND	15.99	13.33	10.66	AC-1200

Open Loop Current Sensors
Hall Effect Technology

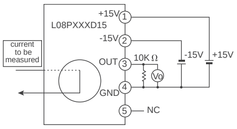

Hall current detector measures the magnetic flux which is produced proportionally to the current, without any contact with the primary circuit by combining the magnetic circuit and the hall element. This results in no voltage drop in the measured circuit and is an ideal solution for measuring AC/DC with an excellent galvanic isolation. **Features:** • Galvanic isolation between primary and measuring circuit, measurement of DC or AC (kHz) or both • No primary losses • Quick response • High reliability by simple design of circuit **Specifications:** • Frequency Band Width (-3dB): L01Z: DC-50kHZ; L03S: DC-50kHz; L08P: DC-50kHz; L10P: DC-50kHz; L16P: DC-35kHz (At higher frequencies derating is required to prevent core from overheating.) • Output Linearity: +-1% • Operating Temperature: -10°C ~ 80°C • Insulation Resistance: more than 500MΩ - di/dt • Response Time: 5uSec. Typical (10uSecond Typical for L08P Series) • Specifications are measured at 25°C, Load Resistor 10kΩ 3mW minimum, rated supply voltage (Vcc)

Fig.	Primary Nominal R.M.S. Current (A)	Supply Voltage (V)	Secondary Nom. Output Volt. (V) +-1%	Saturation Current (A)	Offset Temp. Coefficent (mV/°C) Max.	Digi-Key Part No.	Price Each 1	10	25	50	Tamura Part No.
					L01Z Series						
1	50	5	4†	62.5	+-2	MT7173-ND	17.23	13.78	11.03	10.34	L01Z050S05
	100	5	4†	125	+-1	MT7174-ND	17.23	13.78	11.03	10.34	L01Z100S05
	150	5	4†	187.5	+-1	MT7175-ND	17.23	13.78	11.03	10.34	L01Z150S05
	200	5	4†	250	+-1	MT7176-ND	17.23	13.78	11.03	10.34	L01Z200S05
	300	5	4†	375	+-1	MT7177-ND	17.23	13.78	11.03	10.34	L01Z300S05
	400	5	4†	500	+-1	MT7178-ND	17.23	13.78	11.03	10.34	L01Z400S05
	500	5	4†	625	+-1	MT7179-ND	17.23	13.78	11.03	10.34	L01Z500S05
	600	5	4†	750	+-1	MT7180-ND	17.23	13.78	11.03	10.34	L01Z600S05
					L03S Series (Molex Mating Connector Required)						
2	50	+-15	+-4	+-150	+-2	MT7181-ND	16.98	13.58	10.87	10.19	L03S050D15
	100	+-15	+-4	+-300	+-1	MT7182-ND	16.98	13.58	10.87	10.19	L03S100D15
	200	+-15	+-4	+-600	+-1	MT7183-ND	16.98	13.58	10.87	10.19	L03S200D15
	400	+-15	+-4	+-700	+-1	MT7185-ND	16.98	13.58	10.87	10.19	L03S400D15
	500	+-15	+-4	+-700	+-1	MT7186-ND	16.98	13.58	10.87	10.19	L03S500D15
	600	+-15	+-4	+-700	+-1	MT7187-ND	16.98	13.58	10.87	10.19	L03S600D15
					L08P Series						
3	50	+-15	+-4	+-150	+-2	MT7188-ND	15.73	12.58	10.07	9.44	L08P050D15
	100	+-15	+-4	+-300	+-1	MT7189-ND	15.73	12.58	10.07	9.44	L08P100D15
	150	+-15	+-4	+-350	+-1	MT7190-ND	15.73	12.58	10.07	9.44	L08P150D15
	200	+-15	+-4	+-350	+-1	MT7191-ND	15.73	12.58	10.07	9.44	L08P200D15

† + Vref = 2.5V at 0 Amps

WM2022-ND	Waldom Molex, 4 Position Housing (2.50mm) KK Series.	**$.71**
WM2312-ND	Waldom Molex, Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062" (1.57) Max; Finish: Selective Gold 15u"	**$2.80/10**
WM1129-ND	Waldom Molex, Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062" (1.57) Max; Finish: Gold 15u"	**$5.73/10**
WM1114-ND	Waldom Molex, Crimp Terminal - Wire Size: 22-30AWG; Insulation Dia.: .062" (1.57) Max; Finish: Tin	**$.74/10**
WM9999-ND	Waldom Molex, Universal Crimp Tool	**$50.75**
WM9927-ND	Waldom Molex, Extraction Tool	**$10.15**
WM9915-ND	Waldom Molex, Production Tool - Wire Size: 24-30AWG	**$214.65**

Fig. 1 — L01Z Series

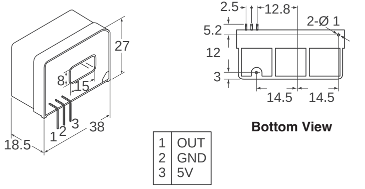

Fig. 2 — L03S Series

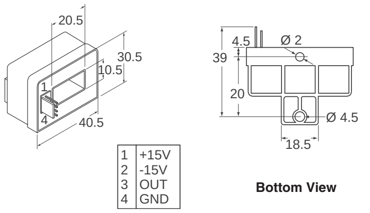

Fig. 3 — L08P Series

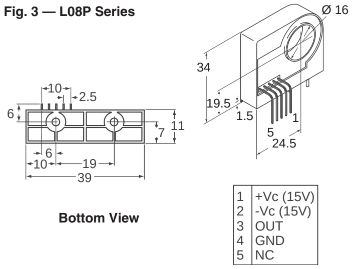

Current Sense Transformer High Frequency, Surface Mount

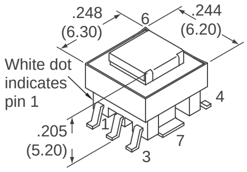

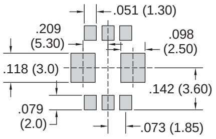

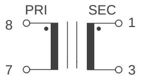

Electrical Specifications: • Operating Frequency: 250kHz and above • Rated Primary Current: 6 Amps RMS • Dielectric Strength: 500 Volts RMS (1 Second, Primary to Secondary) • Operating Temperature: -40°C ~ 85°C (*Note: All electrical specifications are tested at 25°C)*

Turns Ratio (7-8):(1-3)	Inductance @ 10kHz, 0.1Vrms (1-3) µH Min.	DC Resistance (7-8) mΩ Max.	DC Resistance (1-3) Ω Max.	Load Resistor Ω Max.	Part Marking	Digi-Key Part No.	Cut Tape Price Each 1	10	25	100	Digi-Key Part No.	Tape & Reel Pricing 750	Tamura Part No.
1:20	80	6	0.55	20	C01	MT7289CT-ND	1.72	1.59	1.33	1.20	MT7289TR-ND	636.00	TCS-01
1:30	180	6	0.87	30	C02	MT7290CT-ND	1.72	1.59	1.33	1.20	MT7290TR-ND	636.00	TCS-02
1:40	320	6	1.14	40	C03	MT7291CT-ND	1.72	1.59	1.33	1.20	MT7291TR-ND	636.00	TCS-03
1:50	500	6	1.50	50	C04	MT7292CT-ND	1.72	1.59	1.33	1.20	MT7292TR-ND	636.00	TCS-04
1:60	720	6	1.75	60	C05	MT7293CT-ND	1.72	1.59	1.33	1.20	MT7293TR-ND	636.00	TCS-05
1:70	980	6	4.75	70	C06	MT7294CT-ND	1.72	1.59	1.33	1.20	MT7294TR-ND	636.00	TCS-06
1:100	2000	6	5.90	100	C07	MT7295CT-ND	1.72	1.59	1.33	1.20	MT7295TR-ND	636.00	TCS-07
1:125	3000	6	7.70	125	C08	MT7296CT-ND	1.72	1.59	1.33	1.20	MT7296TR-ND	636.00	TCS-08

Low Frequency Current Sense Transformer

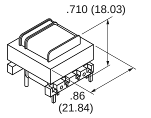

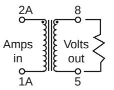

Description:

Designed to monitor current in low frequency applications. Frequencies from 50 Hz ~ 400 Hz, Current from .1 to 30 amperes.

Technical Notes:

- Turns ratio: Primary to sense 1:500
- Suggested burden resistor: 60 Ω.
- Hi-Pot: 2,500 volts.

Primary DCR µOhms Max.	Sense DCR Ohms Max.	Typ. Output (mV/Amp)	Digi-Key Part No.	Price Each 1	10	25	50	Triad Part No.
250	21	110	237-1103-ND	2.89	2.34	2.08	1.89	CSE187L

High Frequency Current Sense Transformer

TRIAD current sense transformers are used to detect the current passing through a conductor. They are constructed of UL rated 130°C materials.

Frequency Range: 20 kHz- 200 kHz

Fig. 1

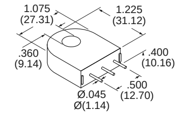

Fig. 2

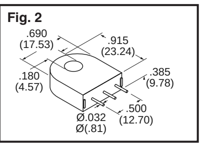

Fig.	Min. Ind. mH	ET VµSEC Ref 20 kHz	Pri. Amps	Digi-Key Part No.	Price Each 1	10	25	50	100	Triad Part No.
1	14.0	2000	110.0 RMS	237-1096-ND	6.11	4.95	4.40	3.99	3.39	CST206-1A
	14.0	2000	110.0 RMS	237-1097-ND	6.67	5.40	4.80	4.35	3.69	CST206-1T*
	56.0	4000	80.0 RMS	237-1098-ND	6.11	4.95	4.40	3.99	3.39	CST206-2A
	56.0	4000	80.0 RMS	237-1099-ND	6.67	5.40	4.80	4.35	3.69	CST206-2T*
	130.0	6000	70.0 RMS	237-1100-ND	6.11	4.95	4.40	3.99	3.39	CST206-3A
	130.0	6000	70.0 RMS	237-1101-ND	6.67	5.40	4.80	4.35	3.69	CST206-3T*
2	3.5	500	35.0 RMS	237-1104-ND	4.11	3.33	2.96	2.69	2.28	CST306-1A
	3.5	500	35.0 RMS	237-1105-ND	4.67	3.78	3.36	3.05	2.59	CST306-1T*
	14.0	1000	25.0 RMS	237-1106-ND	4.11	3.33	2.96	2.69	2.28	CST306-2A
	14.0	1000	25.0 RMS	237-1107-ND	4.67	3.78	3.36	3.05	2.59	CST306-2T*
	55.0	2000	25.0 RMS	237-1108-ND	4.11	3.33	2.96	2.69	2.28	CST306-3A
	55.0	2000	25.0 RMS	237-1109-ND	4.67	3.78	3.36	3.05	2.59	CST306-3T*

*T Suffix = Center Tapped 3-pin version

237-1102-ND (CST206-KIT) - 6 piece kit (one of each in series CST206).	**$33.30**
237-1110-ND (CST306-KIT) - 6 piece kit (one of each in series CST306).	**$22.22**

CUI INC

Force Sensor

Features:

- Typical Supply Voltage: 3-6VDC, Maximum Voltage: 30VDC
- Typical Current: 5mA, Maximum Current: 20mA
- Operating Temperature: 10°C ~ 40°C
- StorageTemperature: -40°C ~ 70°C
- Humidity: 85% RH Non-condensating

Load (kgf)		Resistance @(Ω)		Digi-Key	Price Each			CUI
Nom.	Max.	No Load	Full Load	Part No.	1	10	25	Part No.
2.0	4.0	≥500k	500	102-1227-ND	17.89	15.90	15.70	SS-13

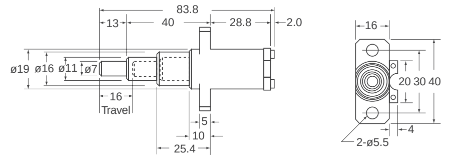

Honeywell Sensors

3-Axis Magnetic - Hybrid

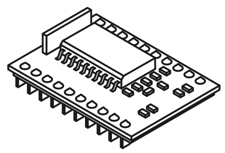

A complete 3-axis magnetometer with analog output in a 20-Pin hybrid DIP package.

Features:

• DIP-20 footprint (1” x .75”) allows easy insertion into system-level boards, reducing development costs • Solid state components improve reliability and ruggedness compared to mechanical fluxgates • Accurately measures fields from 40 µgauss to ±2 gauss at 1V/gauss • Low noise instrumentation amplifiers with 1kHz low pass filters, reject unwanted noise • No flux concentrators used in this design that can lead to hysteresis and non-repeatability • An externally accessible +2.5V reference improves measurement accuracy and stability • On-board excitation current source reduces temperature errors and regulates the power supply input • Magnetic field offsets or closed loop circuits can be applied using the built-in straps • Output signal accuracy may be enhanced by using the integral set/reset straps • All components selected and packaged in nonmagnetic material to reduce magnetic distortion and offsets.

Applications:

• Compassing • Navigation systems • Attitude reference • Traffic detection • Proximity detection • Medical devices

Specifications (Power Supply: +15VDC; Set/Reset switching is active):

• Operating Temperature: -40°C ~ 85°C, ambient @ 25°C • Supply Voltage: 6VDC ~ 15 VDC; Transient protection circuitry should be added across V+ and Gnd if an unregulated power supply is used • Supply Current: 20mA • Output Voltage: 0.5V ~ 4.5V • Field Range: ±2 gauss • Typical Linearity Error: 1% FS; ±2 gauss applied field sweep • Typical Hysteresis Error: 0.05% FS; 3 sweeps across ±2 gauss • Typical Sensitivity: 1.0mV/V/gauss; At Vbridge +5V • Typical Resolution: 40 µgauss • Bandwidth: 1KHz

Units: 1 gauss (G) = 1 Oersted (in air), 1G = 79.58A/m, 1G = 10E-4 Tesla, 1G = 10E5 gamma

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
3-Axis Magnet Sensor Hybrid	342-1011-ND	199.00	HMC2003

1, 2 and 3-Axis Magnetoresistive

Configured as a 4-element wheatstone bridge, these highly sensitive sensors convert magnetic fields to differential output voltages, capable of sensing magnetic fields as low as 30 µgauss.

Features: • Field range up to ±6 gauss, (earth’s field = 0.5 gauss) • Small package designed for 1- and 2-axis to work together to provide 3-axis (x, y, z) sensing • Solid state devices reduce board assembly costs, improve reliability and ruggedness compared to mechanical fluxgates • Patented on-chip set/reset straps to reduce effects of temperature drift, non-linearity errors and loss of signal output due to the presence of high magnetic fields • Patented on-chip offset straps for elimination of the effects of hard iron distortion.

Applications: • Compassing • Navigation systems • Attitude reference • Traffic detection • Medical devices • Non-contact switch

	Digi-Key Part No.			
SPECIFICATIONS: **(See notes below)**	**342-1001-5-ND** **342-1002-5-ND**	**342-1003-5-ND** **342-1004-5-ND** **342-1005-5-ND**	**342-1029-5-ND** **342-1034-5-ND** **342-1035-5-ND** **342-1042-5-ND** **342-1043-5-ND**	**Conditions**
Operating Temperature	-40°C ~ 85°C *	-40°C ~ 85°C	-40°C ~ 125°C	Ambient
Field Range	±2 gauss †Δ*	±6 gauss	±6 gauss	Full scale (FS) - total applied field
Sensitivity Typical († Δ)	3.2 mV/V/gauss	1.0mV/V/gauss	1.0mV/V/gauss	At IOFFSET = ±50mA, Vbridge = 8V (Vbridge = 5V for 342-1003/1004/1005-5-ND) (Set/Rest Current = 0.5A for 342-1029/1034/1035/1042/1043-5-ND)
Resolution Typical	27 µgauss	85 µgauss	—	Bandwidth = 10Hz, Vbridge = 5V
	—	—	120 µgauss	Bandwidth = 50Hz, Vbridge = 5V
	—	—	—	—
Bandwidth	5MHz	5MHz	5MHz	Magnetic signal (lower limit = DC)
Units: 1 gauss (G) = 1 Oersted (in air), 1G = 79.58A/m, 1G = 10E-4 Tesla, 1G = 10E5 gamma				

Notes:

† VBridge = 4.3V, IS/R = 3.2A, T = 25°C . VOUT = VSET - VRESET

Δ If VBridge = 8.0V, IS/R = 2.0A, T = 25°C, lower S/R current leads to greater output variation

* Not tested, guaranteed by characterization

Description	Digi-Key Part No.	Price Each 1	5	25	Honeywell Part No.
8-Pin SIP, Single Axis	342-1001-5-ND	25.50	19.13	17.00	HMC1001
20-Pin SOIC, Double Axis	342-1002-5-ND	40.50	30.38	27.00	HMC1002
8-Pin SOIC, Single Axis	342-1003-5-ND	10.50	7.88	7.00	HMC1021S
8-Pin SIP, Single Axis	342-1004-5-ND	10.50	7.88	7.00	HMC1021Z
16-Pin SOIC, Double Axis	342-1005-5-ND	13.50	10.13	9.00	HMC1022
10-Pin MSOP, Double Axis	342-1029-1-ND	8.25	6.88	6.19	HMC1052
8-Pin SIP, Single Axis	342-1034-5-ND	12.75	9.57	8.50	HMC1051Z
8-Pin In-Line LCC, Single Axis	342-1043-5-ND	30.00	22.50	20.00	HMC1051ZL
16-Pin LCC, Double Axis	342-1042-5-ND	27.00	20.25	18.00	HMC1052L
16-Pin LCC, Triple Axis	342-1035-5-ND	105.00	78.75	70.00	HMC1053
3-Axis Compass Sensor Set with (1 each) HMC1051Z, HMC1052, MEMSIC, MXS3334UL	342-1036-ND	60.00	45.00	40.00	HMC1055

Digital Compass Module

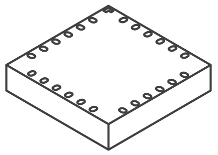

The HMC6352 2-Axis Digital Integrated Compass Solution combines a two-axis MR magnetic field sensor design with the required analog and digital support circuits for heading computation.

By combining the sensor elements and all the processing electronics into a 6.5mm square LCC package, designers will have the simplest solution to integrate low cost and space efficient electronic compasses for wireless phones, consumer electronics, vehicle compassing, and antenna positioning.

Features:

- Fully Integrated Compass Module
- 2-Axis Magnetic Sensors with Electronics
- Miniature (6.5 x 6.5 x 1.4mm) 24-Pin LCC Package
- 2.7 to 5.2V Supply Range
- Accurate Compassing Capability
- I²C Digital Interface • User Selectable Slave Address

Description	Digi-Key Part No.	Price Each	Honeywell Part No.
24-Pin LCC, Double Axis	342-1041-5-ND	50.00	HMC6352

Honeywell Sensors

Linear / Angular / Rotary Displacement Sensors – HMC1501 / HMC1512

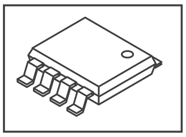

High resolution, low power MR sensor capable of measuring the angle direction of a magnetic field from a magnet with <0.07° resolution. Output is typical Wheatstone Bridge

Features: • No "rare earth" magnets; functions with Alnico or ceramic type magnets • Linear range of 8mm with two sensors mounted on two ends; range may be increased through multiple sensor arrays operating together • Absolute sensing ability to know exact position and require no indexing for proper positional output • No moving parts to wear out • 8-pin SMT package • Case dimensions (exclusive of pins) of 5mm x 4mm x 1.2mm total mounting envelope, with pins of less than 6mm square • Full scale output range of 120mV with 5V of power supply. **Applications:** • Linear Displacement • Angular Displacement • Motor Control • Valve Position • Proximity Detection • Current Spike Detection. **Specifications** (at 25°C except stated otherwise)**:** • **Typical Bridge Supply:** 5V, Vbridge referenced to GND • Sensitivity Vbridge =5V, field 80 Oe**:** 2.1mV/° @ zerocrossing; 1.8mV/° @ zero crossing, averaged in the range of 45° • **Typical Peak-to-Peak Voltage:** 120mV, Vbridge=5V, field=80 Oe • **Bandwidth:** 0MHz ~ 5MHz, Magnetic signal • **Typical Hysteresis Error:** 30μV°, 1.7x10^{-2} mV°, Magnetic field ≥saturation field, Vbridge = 5V

Typ. Bridge Resistance @ 1mA	Angle Range ≥ Saturation Field	Typ. Resolution 10Hz Bandwidth Vbridge=5V <0.07°	Digi-Key Part No.	Price Each	Honeywell Part No.
5KΩ	±45°	<0.07°	342-1008-5-ND	6.15	HMC1501
2.1KΩ	±90°	<0.05°	342-1010-5-ND	6.45	HMC1512

Digital Compass Module – HMR3000/3100

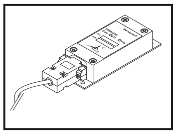

HMR3000: Electronic compass module that provides heading, pitch and roll output for navigation and guidance systems. This solid state magnetoresistive sensors make this strapdown compass both rugged and reliable. This compass provides fast response time up to 20Hz and high heading accuracy of 0.5° with 0.1° resolution. HMR3100: Digital Compass Solution circuit board that includes the basic magnetic sensors and electronics to provide a digital indication of heading.

Features: HMR3000: • Built with solid state magnetic sensors and no moving parts improves response time, allowing faster updates compared to gimballed fluxgates • Available as a circuit board 1.2" x 2.95", weighing less than one ounce, or in an aluminum enclosure • Operates with less than 35mA, allowing for long operation with a battery • Accuracy better than 0.5° with 0.1° resolution for critical positioning applications • Tilt range of ±40° for both the roll and pitch allows operation for most applications • Calibration routines to compensate for distortion due to nearby ferrous objects and stray fields, such as vehicles • User settings of baud rate, update rate, output format, units, filter settings, deviation angles, alarms, and warnings are stored internally in non-volatile memory. HMR3100: • 5° Heading Accuracy, 0.5° Resolution • 2-axis capability • Small size (19mm x 19mm x 4.5mm), light weight • Advanced hard iron calibration routine for stray fields and ferrous objects • 0°C ~ 70°C operating temperature range • 2.6 ~ 5 volt DC single supply operation

Specifications: HMR3000: • **Typical Supply Voltage:** 5.0VDC regulated, 6-15VDC unregulated • **Typical Power:** 35mA @ 6VDC Normal Operation, 13mA STOP Mode, 2.0mA SLEEP Mode • **Serial:** RS-232 / RS-485 (Half Duplex) • **Baud Rate:** 1200 ~ 38400 bps HMR3100: • **Typical Supply Voltage:** 3.0VDC unregulated • **Typical Power:** 0.2mA Normal Mode (Average 1Hz Sampling) • **Serial:** USART • **Baud Rate:** 2400 to 19200 bps

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
RS-232	Without Enclosure	342-1024-ND	675.00	HMR3000-D00-232
RS-232	Enclosure, Extended Base	342-1025-ND	699.00	HMR3000-D21-232
RS-485	Without Enclosure	342-1026-ND	675.00	HMR3000-D00-485
RS-485	Enclosure, Extended Base	342-1027-ND	699.00	HMR3000-D21-485
HMR 3000 Development Kit, with RS-232 Output, Cables, Manual		342-1022-ND	750.00	HMR3000-Demo-232
USART Digital Compass Module		342-1037-ND	100.00	HMR3100
HMR 3100 Development Kit, with RS-232 Output, Cables, Manual		342-1038-ND	186.00	HMR3100-Demo-232

Smart Digital Magnetometer – HMR2300

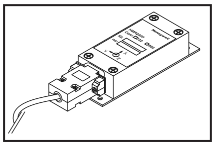

Microcontroller-Based Smart Sensor with range of ±2 Gauss; <70μGauss Resolution. Has high accuracy over ±1 Gauss; <0.5%FS; and Output Rate Selectable of 10 to 154 Samples/Sec. This sensor has a three-axis digital output, BCD ASCII or Binary, RS-232 Serial Output (9600 or 19200), and a 9-pin D-Sub connector.

Applications: • Compassing – Avionics and Marine • Remote Vehicle Monitoring (Roll/Pitch/Yaw) • Process Control • Laboratory Instrumentation • Anomaly Detection • Traffic and Vehicle Detection • Security Systems. **Specifications:** • **Supply Voltage:** 6.5V ~ 15V; Pin 9 referenced to Pin 5 • **Typical Supply Current:** 27mA; Vsupply=15V, with S/R=ON • **Operating Temp:** -40°C ~ 85°C; Ambient • **Field Range:** ±2 gauss; Full scale (FS) - total applied field • **Typical Linearity Error:** 1%FS; Best fit straight line at 25°C ±2 Gauss • **Typical Hysteresis Error:** 0.01%FS; 3 sweeps across ±2 Gauss @ 25°C • **Minimum Resolution:** 67μgauss; Applied field to change output. (Units: 1 gauss (G) = 1 Oersted (in air), 1G=79.58A/m, 1G=10E-4 Tesla, 1G=10E5 gamma)

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
RS-232	Flush Mount Enclosure, Aluminum, 3.25" x 1.50" x 1.13" (82.55 x 38.1 x 28.70mm)	342-1015-ND	692.65	HMR2300-D20-232
RS-232	Extended Enclosure, Aluminum, 4.00" x 1.50" x 1.13" (101.60 x 38.1 x 28.70mm)	342-1016-ND	699.00	HMR2300-D21-232
RS-485	Without Enclosure	342-1017-ND	675.00	HMR2300-D00-485
RS-485	Flush Mount Enclosure, Aluminum, 3.25" x 1.50" x 1.13" (82.55 x 38.1 x 28.70mm)	342-1018-ND	699.00	HMR2300-D20-485
RS-485	Extended Enclosure, Aluminum, 4.00" x 1.50" x 1.13" (101.60 x 38.1 x 28.70mm)	342-1019-ND	699.00	HMR2300-D21-485
RS-232	HMR2300 Development Kit with RS-232 Output, Cables, Manual	342-1012-ND	750.00	HMR2300-Demo-232

Digital Compass Module – HMR3200/3300

Electronic compassing solutions that provide heading information for use in navigation and guidance systems. Magnetoresistive sensors are utilized to provide the reliability and accuracy of these small, solid state compass designs. These compass solutions are easily integrated into systems using a UART interface in ASCII format.

Features: Accuracy: 1° heading accuracy, 0.1° resolution and 0.5° repeatability. **Tilt Range:** The HMR3300 may be operated up to a ±60° tilt range for both pitch and roll. Accuracy and performance are enhanced over a wider range of operating conditions and applications with this feature. The HMR3200 is not tilt compensated. Performance is optimized in horizontal or vertical orientations. **Low Power:** Typical operating current is 18mA for the HMR3200. **Response Time:** The HMR3300 has 15Hz response time for faster updates compared to gimballed, mechanical fluxgate compasses.

Specifications: • **Magnetic Field:** Range: ±2 gauss typical, Resolution: 0.1 mgauss • **Electrical:** Input Voltage: Unregulated: 6VDC ~ 15VDC, Regulated: 5.0Vdc • **Interface:** UART - User selectable baud rate 2400 ~ 19200 baud • **Physical:** Dimensions - Conditions: Circuit board, 1.0" x 1.45" x 0.4" (25.4 x 36.8 x 11 mm)

Header Pin Assignment

Pin No.	Pin Name
1	SCK
2	RX/SDI
3	TX/SDO
4	CS
5	CAL
6	5V
7	GND
8	+V

Serial Output	Description	Digi-Key Part No.	Price Each	Honeywell Part No.
UART	Digital Compass Module 2-axis	342-1030-ND	300.00	HMR3200
UART	Digital Compass Module 3-axis	342-1032-ND	385.00	HMR3300
HMR 3200 Development Kit, with RS232 Output, Cables, Manual		342-1031-ND	365.00	HMR3200-Demo-232
HRMR 3300 Digital Compass Module with RS232 Motherboard		342-1039-ND	435.00	HMR3300-D00-232
HMR 3300 Development Kit, with RS232 Output, Cables, Manual		342-1033-ND	499.00	HMR3300-Demo-232

CHERRY Solid State Magnetic Hall Effect Sensors

Fig. 1

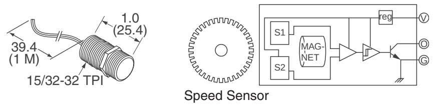

Speed Sensor

Fig. 2

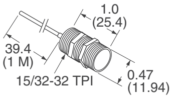

Fig. 3

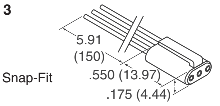

Fig. 4

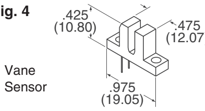

Fig. 5

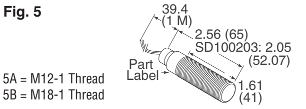

Fig. 6

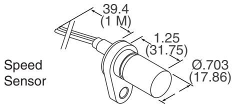

Fig. 7

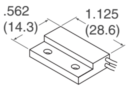

Fig. 8

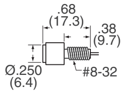

Cherry magnetic sensors are used to detect changes in magnetic field polarities and the motion of ferrous metals such as gear tooth movements. Used for such applications as speed and proximity sensing, magnetic polarity detection and current flow monitoring. Solid state design for unlimited life.

Features:

MP100 Series:

- Aluminum threaded barrel sensor for speed and position sensing
- The threaded barrel allows precise positioning and adjustment

GS100 Series:

- Barrel sensors intended for gear tooth speed sensing
- High speed capability, ideal for sensing power gears, conveyer speed and other rotating gears
- Built-in magnet supplies its own bias field
- GS101202 is plastic housing with steel bushing

Fig.	Supply Voltage	Output Current	Terminal Type	Polarity	Digi-Key Part No.	Price Each 1	10	50	100	Cherry Part No.
1	4.5-24VDC	25mA	20AWG Wires	Gear Teeth	CH398-ND†	30.24	26.88	22.40	20.72	GS100701
2	4.75-24VDC	25mA	20AWG Wires	South Pole	CH396-ND†	24.44	21.72	18.10	16.75	MP100701
3	4.75-24VDC	25mA	24AWG Wires	South Pole	CH399-ND	6.08	5.40	4.50	4.17	MP101301
4	4.5-24VDC	25mA	PC Mount	Ferrous Vane	CH401-ND	6.67	5.93	4.94	4.57	VN101501
			24AWG Wires		CH712-ND	7.64	6.80	5.66	5.24	VN101503
5A	4.5-24VDC	25mA	20AWG Wires	Gear Teeth	CH416-ND†	30.83	27.41	22.84	21.13	GS100502
			22AWG Wires		CH414-ND*	54.00	48.00	40.00	37.00	GS100102
5A	4.75-24VDC	25mA	20AWG Wires	South Pole	CH708-ND†	24.44	21.72	18.10	16.75	MP100502
	5-24VDC		22AWG Wires		CH707-ND*	39.20	34.85	29.04	26.87	MP100102
5B	4.5-24VDC	25mA	12mm Conn.	Gear Teeth	CH705-ND*	58.86	52.32	43.60	40.33	GS100201
	4.5-24VDC	25mA	22AWG Wires		CH415-ND*	57.24	50.88	42.40	39.22	GS100202
	5-24VDC	—	20AWG Wires		CH706-ND*	52.92	47.04	39.20	36.26	GS100203
6	5-24VDC	25mA	22AWG Wires	Gear Teeth	CH417-ND	32.29	28.71	23.92	22.13	GS101202
7	4.5-24VDC	25mA	24AWG Wires	North Pole	CH400-ND	7.18	6.39	5.32	4.93	MP102103
—	12mm Threaded Cord Set - straight female 36" Length				CH698-ND	29.03	25.80	21.50	19.89	AS000203
8	Threaded Actuator, South pole magnet, Aluminum Housed				CH700-ND	5.13	4.56	3.80	3.52	AS101001

* Industrial Grade-Stainless Steel † Commercial Grade Aluminum

MEASUREMENT
SPECIALTIES

Rugged Stainless Steel Pressure Transducers Featuring Microfused Technology

The MSP pressure transducer is designed for high-volume, low-cost commercial, industrial and off road applications which require accurate measurement of gases or liquids. Operating ranges up to 10,000 psi is available with your choice of output signal in volts, millivolts, or milliamps. The MSP uses a micro machined silicon strain gauge inorganically bonded to a machined stainless steel diaphragm; no welds, no O-rings, no silicone oil. All wetted surfaces are stainless steel and all signal conditioning electronics are housed in a stainless steel cover which provides protection from hostile environments. The housing is sealed and requires no maintenance. Each transducer is thoroughly tested and calibrated before shipment.

Applications: • Pumps and Compressors • Hydraulic / Pneumatic Systems • Energy and Water Management • Pressure Instrumentation • Process Control, Off Road Refrigeration, HVAC.

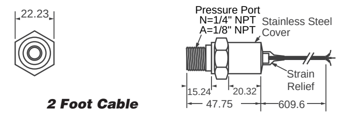

2 Foot Cable

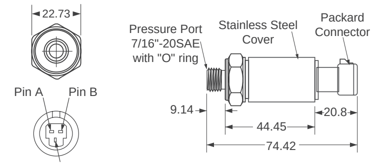

Packard Connector

	MSP-100	MSP-300	MSP-340	MSP-400	MSP-600	MSP-610
Pressure Range (PSIG)	0-100 ~ 500	0-100 ~ 10,000	0-100 ~ 1,000	0-100 ~ 5,000	0-25 ~ 5,000	0-100 ~ 500
Temperature Output	None	None	None	None	None	None
Accuracy (combined linearity, hysteresis and repeatability)	±0.20% of FS	±1% of FS	±1% of FS	±0.50% of FS	±0.25% BSL	±0.25% of FS
Pressure Overload	1.5X	2X	2X	2X	2X	2X
Burst Pressure	3X	5x or 20,000 PSI whichever is less				4X
Outputs VDC or mA	0-100mV	0-100mV, 1-5V 0.5-4.5V, 4-20mA	0-100mV, 0.5-4.5V	0.5-4.5V, 1-5V, 4-20mA	0.5-4.5V 1-5V, 4-20mA	0.5-4.5V, 1-5V, 4-20mA
Zero Offset (millivolt output)	±2% of FS	±3% of FS	±3% of FS	—	—	—
(amplified output)	±2% of FS	±2% of FS	±2% of FS	±2% of FS	—	—
Span Tolerance	±2% of FS	±2% of FS	±2% of FS	±2% of FS	—	—
Long-Term Stability, Typical (1 year)	±0.25%	±0.25%	±0.25%	±0.25%	±0.25%	±0.25%
Operating Temperature (°F)	30 ~ 130	(-4 ~ 185)	(-4 ~ 185)	(-40 ~ 185)	(-40 ~ 257)	(-40 ~ 257)
(°C)	(0 ~ 55)	(-20 ~ 85)	(-20 ~ 85)	(-40 ~ 85)	(-40 ~ 125)	(-40 ~ 125)
Compensated Range (°F)	30 ~ 130	30 ~ 130	30 ~ 130	30 ~ 158	-4 ~ 185	—
(°C)	0 ~ 55	0 ~ 55	0 ~ 55	0 ~ 70	-20 ~ 85	—
Thermo Zero Shift	<±2% of FS	<±2% of FS	<±2% of FS	<±1.5% of FS	—	—
Thermo Span Shift	<±2% of FS	<±2% of FS	<±2% of FS	<±1.5% of FS	—	—
Total Error Band	N/A	N/A	N/A	N/A	1.5% of FS	1.0% of FS
EMI/RFI Protection, CE Mark	No	No	No	Yes	Yes	—
UL Listed	No	Yes	No	Yes	Yes	—

Op. Pressure Range PSIG	Volt-age Supply	Digi-Key Part No.	Price Each		MSI Part No.
			1	10	
MSP-100 Series					
Calibrated 100mV Output — O-Ring Seal, 2 Foot Cable					
100	5 VDC	MSP6900-ND	48.10	40.30	MS121-000000U-100PG
250		MSP6901-ND	48.10	40.30	MS121-000000U-250PG
500		MSP6902-ND	48.10	40.30	MS121-000000U-500PG
MSP-300 Series					
0-100mV Output — 4 Wire Unamplified 1/4” NPT, 2 Foot Cable					
100	5 VDC	MSP3101P1-ND	64.75	54.25	2000130
250		MSP3251P1-ND	64.75	54.25	2000199
500		MSP3501P1-ND	64.75	54.25	2000255
1000		MSP3102P1-ND	64.75	54.25	2000045
2500		MSP3252P1-ND	64.75	54.25	2000222
5000		MSP3502P1-ND	64.75	54.25	2000096
10000		MSP3103P1-ND	64.75	54.25	2000157
0.5-4.5V Output — Ratiometric output voltage to input voltage 3 Wire supply current 10mA max. 1/4” NPT, 2 Foot Cable					
100	5 VDC	MSP3101P2-ND	75.85	63.55	2000131
250		MSP3251P2-ND	75.85	63.55	2000202
500		MSP3501P2-ND	75.85	63.55	2000260
1000		MSP3102P2-ND	75.85	63.55	2000046
2500		MSP3252P2-ND	75.85	63.55	2000223
5000		MSP3502P2-ND	75.85	63.55	2000099
10000		MSP3103P2-ND	75.85	63.55	2000158
1-5V Output — Fixed - 3 Wire supply current 10mA maximum 1/4” NPT, 2 Foot Cable					
100	10-32 VDC	MSP3101P3-ND	85.10	71.30	2000133
250		MSP3251P3-ND	85.10	71.30	2000204
500		MSP3501P3-ND	85.10	71.30	2000262
1000		MSP3102P3-ND	85.10	71.30	2000048
2500		MSP3252P3-ND	85.10	71.30	2000226
5000		MSP3502P3-ND	85.10	71.30	2000100
10000		MSP3103P3-ND	85.10	71.30	2000159
1-5V Output 1/8” NPT, 2 Foot Cable					
100	10-32 VDC	MSP3101P4A1-ND	85.10	71.30	2000132
250		MSP3251P4A1-ND	85.10	71.30	2000203
500		MSP3501P4A1-ND	85.10	71.30	2000261
1000		MSP3102P4A1-ND	85.10	71.30	2000047
4-20mA Output — 2 Wire regulated supply 1/4” NPT, 2 Foot Cable					
100	10-32 VDC	MSP3101P4-ND	96.25	82.50	2000137
250		MSP3251P4-ND	96.25	82.50	2000207
500	10-32 VDC	MSP3501P4-ND	96.25	82.50	2000264
1000		MSP3102P4-ND	96.25	82.50	2000050
2500		MSP3252P4-ND	96.25	82.50	2000227
5000		MSP3502P4-ND	96.25	82.50	2000101
10000		MSP3103P4-ND	96.25	82.50	2000160
4-20mA Output 1/8” NPT, 2 Foot Cable					
100	10-32 VDC	MSP3101P5A1-ND	96.25	82.50	2000136
250		MSP3251P5A1-ND	96.25	82.50	2000206
500		MSP3501P5A1-ND	96.25	82.50	2000263
1000		MSP3102P5A1-ND	96.25	82.50	2000049
MSP-340 Series					
100mV Output — 1/8” NPT, 2 Foot Cable					
100	5 VDC	MSP6892-ND	59.20	49.60	M3421-000006-100PG
300		MSP6893-ND	59.20	49.60	M3421-000006-300PG
500		MSP6894-ND	59.20	49.60	M3421-000006-500PG
1000		MSP6895-ND	59.20	49.60	M3421-000006-01KPG
0.5-4.5V Output — 1/8” NPT, 2 Foot Cable					
100	10-30 VDC	MSP6896-ND	74.00	62.00	M3431-000006-100PG
300		MSP6897-ND	74.00	62.00	M3431-000006-300PG
500		MSP6898-ND	74.00	62.00	M3431-000006-500PG
1000		MSP6899-ND	74.00	62.00	M3431-000006-01KPG
MSP-400 Series					
0.5-4.5V Output — Ratiometric output voltage to input voltage 3 Wire supply current 10mA maximum 1/4” NPT, 2 Foot Cable					
100	5 VDC	MSP4101P2-ND	90.65	75.95	2000473
250		MSP4251P2-ND	90.65	75.95	2000519
500		MSP4501P2-ND	90.65	75.95	2000550
1000		MSP4102P2-ND	90.65	75.95	2000415
2500		MSP4252P2-ND	90.65	75.95	2000527
5000		MSP4502P2-ND	90.65	75.95	2000454
1-5V Output — Fixed – 3 Wire supply current 10mA maximum 1/4” NPT, 2 Foot Cable					
100	10-32 VDC	MSP4101P3-ND	94.50	81.00	2000484
250		MSP4251P3-ND	94.50	81.00	2000521
500		MSP4501P3-ND	94.50	81.00	2000553
1000		MSP4102P3-ND	94.50	81.00	2000416
2500		MSP4252P3-ND	94.50	81.00	2000528
5000		MSP4502P3-ND	94.50	81.00	2000455
4-20mA Output — 2 Wire regulated supply 1/4” NPT, 2 Foot Cable					
100	10-32 VDC	MSP4101P4-ND	108.50	93.00	2000486
250		MSP4251P4-ND	108.50	93.00	2000522
500		MSP4501P4-ND	108.50	93.00	2000554
1000		MSP4102P4-ND	108.50	93.00	2000417
2500		MSP4252P4-ND	108.50	93.00	2000531
5000		MSP4502P4-ND	108.50	93.00	2000457
MSP-600 Series					
0.5-4.5VDC Output — 1/4” NPT, 2 Foot Cable					
25	5 VDC	MSP6025P3-1-ND	96.25	82.50	2000871
50		MSP6050P3-1-ND	96.25	82.50	2000877
75		MSP6075P3-1-ND	96.25	82.50	2000883
100		MSP6101P3-1-ND	96.25	82.50	2000889
250		MSP6251P3-1-ND	96.25	82.50	2000895
500		MSP6501P3-1-ND	96.25	82.50	2000901
1000		MSP6102P3-1-ND	96.25	82.50	2000907
2500		MSP6252P3-1-ND	96.25	82.50	2000913
5000		MSP6502P3-1-ND	96.25	82.50	2000919
0.5-4.5VDC Output — 7/16” SAE, Packard Connector					
25	5 VDC	MSP6025P3-4-ND	96.25	82.50	2000964
50		MSP6050P3-4-ND	96.25	82.50	2000965
75		MSP6075P3-4-ND	96.25	82.50	2000966
100		MSP6101P3-4-ND	96.25	82.50	2000967
250		MSP6251P3-4-ND	96.25	82.50	2000968
500		MSP6501P3-4-ND	96.25	82.50	2000969
1000		MSP6102P3-4-ND	96.25	82.50	2000970
2500		MSP6252P3-4-ND	96.25	82.50	2000971
5000		MSP6502P3-4-ND	96.25	82.50	2000972
1-5VDC Output — 1/4” NPT, 2 Foot Cable					
25	10-30 VDC	MSP6025P4-1-ND	101.50	87.00	2000872
50		MSP6050P4-1-ND	101.50	87.00	2000878
75		MSP6075P4-1-ND	101.50	87.00	2000884
100		MSP6101P4-1-ND	101.50	87.00	2000890
250		MSP6251P4-1-ND	101.50	87.00	2000896
500		MSP6501P4-1-ND	101.50	87.00	2000902
1000		MSP6102P4-1-ND	101.50	87.00	2000908
2500		MSP6252P4-1-ND	101.50	87.00	2000914
5000		MSP6502P4-1-ND	101.50	87.00	2000920
4-20mA Output — 1/4” NPT, 2 Foot Cable					
25	10-30 VDC	MSP6025P5-1-ND	119.00	102.00	2000873
50		MSP6050P5-1-ND	119.00	102.00	2000879
75		MSP6075P5-1-ND	119.00	102.00	2000885
100		MSP6101P5-1-ND	119.00	102.00	2000891
250		MSP6251P5-1-ND	119.00	102.00	2000897
500		MSP6501P5-1-ND	119.00	102.00	2000903
1000		MSP6102P5-1-ND	119.00	102.00	2000909
2500		MSP6252P5-1-ND	119.00	102.00	2000915
5000		MSP6502P5-1-ND	119.00	102.00	2000921
MSP-610 Series					
0.5-4.5V Output — 1/8” NPT, 2 Foot Cable					
300	5 VDC	MSP6906-ND	114.19	97.88	M6131-C00006-300PG
500		MSP6907-ND	114.19	97.88	M6131-C00006-500PG
0.5-4.5V Output — 1/4” NPT, 2 Foot Cable					
100	5 VDC	MSP6903-ND	114.19	97.88	M6131-C00005-100PG
300		MSP6904-ND	114.19	97.88	M6131-C00005-300PG
500		MSP6905-ND	114.19	97.88	M6131-C00005-500PG
1-5V Output — 1/4” NPT, 2 Foot Cable					
100	8-30 VDC	MSP6908-ND	119.00	102.00	M6141-C00005-100PG
300		MSP6909-ND	119.00	102.00	M6141-C00005-300PG
500		MSP6910-ND	119.00	102.00	M6141-C00005-500PG
4-20mA Output — 1/4” NPT, 2 Foot Cable					
100	10-30 VDC	MSP6911-ND	135.63	116.25	M6181-C00005-100PG
300		MSP6912-ND	135.63	116.25	M6181-C00005-300PG
500		MSP6913-ND	135.63	116.25	M6181-C00005-500PG

MEASUREMENT
SPECIALTIES

PC Board Mountable Pressure Sensors Temperature Compensated

These pressure sensors are intended for cost sensitive applications where excellent performance and long-term stability are required. Integral temperature compensation is provided using laser-trimmed resistors. An additional laser-trimmed resistor is included to normalize pressure sensitivity variations by programming the gain of an external differential amplifier. This provides sensitivity interchangeability of ±1%.

Features: • ±0.1% Non-linearity • ±1.0% Interchangeable Span (provided by gain set resistor) • Solid State Reliability • Low Power

Specifications: • **Output:** 0-100mV typical (full scale) • **Supply Current:** 1.5mA typical • **Response Time:** 1.0mSec typical (For a zero-to-full scale pressure step change) • **Operating Temperature:** -40°C ~ 125°C

8-Pin Dip Package

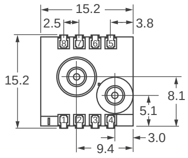

Fig. 1

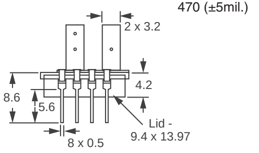

Model 1210/1220 – Low Pressure:
• 0°C ~ 50°C Temperature.5 Compensation Range • 1.0% Temperature Performance

Model 1230/1240 – UltraStable™:
• -20°C ~ 85°C Temperature Compensation Range • ±0.5% Temperature Performance

Model 1210/1220 – Medium Pressure:
• 0°C ~ 50°C Temperature Compensation Range • 0.5 ~ 1% Temperature Performance

Fig.	Pressure	Pressure Type	Package	Digi-Key Part No.	Price Each			MSI Part No.
					1	10	100	
Model 1210 / 1220 - Low and Medium Pressure								
1	0-1PSID	Differential	8-Pin Dip	MSP6940-ND	37.50	30.00	21.00	1210A-001D-3L
	0-2PSID	Differential	8-Pin Dip	MSP6814-ND	35.00	28.00	19.60	1210A-002D-3L
	0-5PSID	Differential	8-Pin Dip	MSP6816-ND	35.00	28.00	19.60	1220A-005D-3L
	0-15PSID	Differential	8-Pin Dip	MSP6941-ND	35.00	28.00	19.60	1210A-015D-3L
	0-15PSID	Differential	8-Pin Dip	MSP6943-ND	35.00	28.00	19.60	1220A-015D-3L
	0-100PSID	Differential	8-Pin Dip	MSP6942-ND	35.00	28.00	19.60	1210A-100D-3L
	0-100PSID	Differential	8-Pin Dip	MSP6944-ND	35.00	28.00	19.60	1220A-100D-3L
Model 1230 / 1240 - Ultrastable								
1	0-15PSID	Differential	8-Pin Dip	MSP6819-ND	37.50	30.00	21.00	1240-015D-3L
	0-15PSID	Differential	8-Pin Dip	MSP6945-ND	37.50	30.00	21.00	1230-015D-3L
	0-30PSID	Differential	8-Pin Dip	MSP6822-ND	37.50	30.00	21.00	1230-030D-3L
	0-100PSID	Differential	8-Pin Dip	MSP6828-ND	37.50	30.00	21.00	1230-100D-3L
	0-100PSID	Differential	8-Pin Dip	MSP6829-ND	37.50	30.00	21.00	1240-100D-3L

PC Board Mountable Pressure Sensors

Model 1451

This pressure sensor is intended for high volume applications where small size, light weight, low cost, and compatibility with automated as sembly equipment are required.

Features: • SMT Package • ±0.25% Pressure Non-linearity • 3 Pressure Port Options • Solid State Reliability • Low Power

Specifications: • **Output:** 0-60mV • **Supply Voltage:** 3VDC • **Response Time:** 1.0mSec typical • **Operating Temperature:** -40°C ~ 125°C

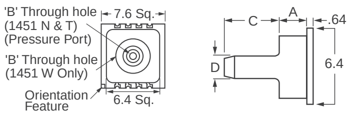

Package	Dimensions (mm) A	B	C	D
Narrow Hole	2.79	0.78	—	—
Wide Hole	2.79	4.06	—	—
Tube	2.79	0.78	5.59	2.29

Pressure	Pressure Type	Package	Digi-Key Part No.	Price Each			MSI Part No.
				1	10	100	
0-5PSIG	Gauge	Tube	MSP6800-ND	16.50	13.50	9.00	1451-005G-T
0-5PSIA	Absolute	Wide	MSP6801-ND	16.50	13.50	9.00	1451-005A-W
0-15PSIA	Absolute	Narrow	MSP6802-ND	16.50	13.50	9.00	1451-015A-N
0-15PSIG	Gauge	Tube	MSP6803-ND	16.50	13.50	9.00	1451-015G-T
0-15PSIA	Absolute	Wide	MSP6804-ND	16.50	13.50	9.00	1451-015A-W
0-30PSIA	Absolute	Narrow	MSP6805-ND	16.50	13.50	9.00	1451-030A-N
0-30PSIG	Gauge	Tube	MSP6806-ND	16.50	13.50	9.00	1451-030G-T
0-30PSIA	Absolute	Wide	MSP6807-ND	16.50	13.50	9.00	1451-030A-W
0-50PSIA	Absolute	Narrow	MSP6808-ND	16.50	13.50	9.00	1451-050A-N
0-50PSIG	Gauge	Tube	MSP6809-ND	16.50	13.50	9.00	1451-050G-T
0-50PSIA	Absolute	Wide	MSP6810-ND	16.50	13.50	9.00	1451-050A-W
0-100PSIA	Absolute	Narrow	MSP6811-ND	16.50	13.50	9.00	1451-100A-N
0-100PSIG	Gauge	Tube	MSP6812-ND	16.50	13.50	9.00	1451-100G-T
0-100PSIA	Absolute	Wide	MSP6813-ND	16.50	13.50	9.00	1451-100A-W

UltraStable™ Stainless Steel Pressure Sensors Ribbon Cable with Connector

Features:
• Gauge Pressure type • -20°C ~ 85°C Compensated temperature range • ±1.0% Interchangeable Span (provided by gain set resistor) • High performance • Small profile • Solid State reliability • Low power • ±0.1% Pressure non-linearity

Specifications:
• **Output:** 0mV~100mV • **Supply Current:** 1.5mA typical (guarantees output/input ratiometricity) • **Operating Temperature:** -40°C ~ 125°C

Fig. 1

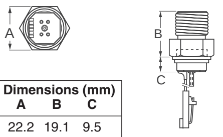

Model	Dimensions (mm) A	B	C
1/8 - 27 NPT	22.2	19.1	9.5
1/4 - 18 NPT	15.9	18.5	6.2

Fig. 2

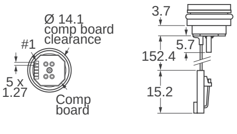

Fig.	Pressure	Output Load Res.	Digi-Key Part No.	Price Each			MSI Part No.
				1	10	100	
Model 82 — O-Ring Flush Mount							
2	0-1PSIG	5MΩ Min.	MSP6927-ND	83.71	70.14	61.09	82-001G-C
	0-15PSIG		MSP6928-ND	62.90	52.70	45.90	82-015G-C
	0-30PSIG		MSP6929-ND	62.90	52.70	45.90	82-030G-C
	0-100PSIG		MSP6930-ND	62.90	52.70	45.90	82-100G-C
	0-300PSIG		MSP6931-ND	62.90	52.70	45.90	82-300G-C
	0-15PSIA	5MΩ Min.	MSP6932-ND	62.90	52.70	45.90	82-015A-C
	0-30PSIA		MSP6933-ND	62.90	52.70	45.90	82-030A-C
	0-100PSIA		MSP6934-ND	62.90	52.70	45.90	82-100A-C
	0-300PSIA		MSP6935-ND	62.90	52.70	45.90	82-300A-C
	0-500PSIA		MSP6936-ND	62.90	52.70	45.90	82-500A-C
Model 85 — 1/4" - 18 NPT							
1	0-15PSIG	5MΩ Min.	MSP6853-ND	62.90	52.70	45.90	85-015G-4C
	0-30PSIG		MSP6854-ND	62.90	52.70	45.90	85-030G-4C
	0-50PSIG		MSP6855-ND	62.90	52.70	45.90	85-050G-4C
	0-100PSIG		MSP6856-ND	62.90	52.70	45.90	85-100G-4C
	0-300PSIG		MSP6857-ND	62.90	52.70	45.90	85-300G-4C
	0-500PSIG		MSP6858-ND	62.90	52.70	45.90	85-500G-4C
	0-15PSIA	5MΩ Min.	MSP6916-ND	62.90	52.70	45.90	85-015A-4C
	0-30PSIA		MSP6917-ND	62.90	52.70	45.90	85-030A-4C
	0-100PSIA		MSP6918-ND	62.90	52.70	45.90	85-100A-4C

Fig.	Pressure	Output Load Res.	Digi-Key Part No.	Price Each			MSI Part No.
				1	10	100	
1	0-300PSIA	5MΩ Min.	MSP6919-ND	62.90	52.70	45.90	85-300A-4C
	0-500PSIA		MSP6920-ND	62.90	52.70	45.90	85-500A-4C
Model 86 — O-Ring Flush Mount							
2	0-5PSIG	1MΩ Min.	MSP6859-ND	59.20	49.60	43.20	86-005G-C
	0-15PSIG		MSP6860-ND	59.20	49.60	43.20	86-015G-C
	0-30PSIG		MSP6861-ND	59.20	49.60	43.20	86-030G-C
	0-50PSIG		MSP6862-ND	59.20	49.60	43.20	86-050G-C
	0-100PSIG		MSP6863-ND	59.20	49.60	43.20	86-100G-C
	0-300PSIG		MSP6864-ND	59.20	49.60	43.20	86-300G-C
	0-500PSIG		MSP6865-ND	59.20	49.60	43.20	86-500G-C
	0-5PSIA	5MΩ Min.	MSP6921-ND	59.20	49.60	43.20	86-005A-C
	0-15PSIA		MSP6922-ND	59.20	49.60	43.20	86-015A-C
	0-30PSIA		MSP6923-ND	59.20	49.60	43.20	86-030A-C
	0-100PSIA		MSP6924-ND	59.20	49.60	43.20	86-100A-C
	0-300PSIA		MSP6925-ND	59.20	49.60	43.20	86-300A-C
	0-500PSIA		MSP6926-ND	59.20	49.60	43.20	86-500A-C
Model 87N — 1/8" - 27 NPT							
1	0-1000PSIA	5MΩ Min.	MSP6937-ND	68.45	57.35	49.95	87N-1000A-8C
	0-3000PSIA		MSP6938-ND	68.45	57.35	49.95	87N-3000A-8C
	0-5000PSIA		MSP6939-ND	68.45	57.35	49.95	87N-5000A-8C

GCD-SE Series Gage Heads - Precision Spring-Loaded

Features: • CE compliance • Heavy-duty, all welded construction • Unipolar ranges: 0.1” ~ 2.0” • 8.5VDC ~ 28VDC operation • Low power consumption • May be battery operated • 0VDC ~ 5VDC and 1VDC ~ 6VDC outputs • New heavy duty front end • Hermetically sealed design

GCD-SE Series Model No.	Linear Range Inches (mm)	Digi-Key Part No.	Price Each			MSI/Schaevitz Part No.
			1	5	10	
GCD-SE-100	0.10 (2.54)	356-1005-ND	480.00	429.01	403.20	02351006-000
GCD-SE-250	0.25 (6.35)	356-1006-ND	544.00	486.00	457.20	02351007-000
GCD-SE-500	0.50 (12.7)	356-1007-ND	617.00	552.00	518.40	02351008-000
GCD-SE-1000	1.0 (25.4)	356-1008-ND	704.00	630.00	591.60	02351009-000
GCD-SE-2000	2.0 (50.8)	356-1009-ND	800.00	716.00	672.00	02351010-000

AccuStar® II Clinometers

AccuStar II combines the function of two clinometers in one package. The unique dome shaped design features a capacitance based sensor which produces output signals directly proportional to the relative tilt in two axis.

Features: • Two clinometers in one package • Adaptable design DC powered • Ratiometric and PW digital output in one model • Trimmable DC output

Description	Linear Range	Operating Temp. Range	Digi-Key Part No.	Price Each			MSI/Schaevitz Part No.
				1	10	25	
Dual Axis Clinometer	±20°	-20°C ~ 75°C	356-1034-ND	100.00	95.00	90.00	02119011-000

Rotary Variable Inductance Transducer (RVIT)

The R120LC is a DC operated noncontact rotary transducer.

Description	Full Range	Input Voltage	Output Voltage	Digi-Key Part No.	Price Each			MSI/Schaevitz Part No.
					1	5	20	
R120LC Transducer	±60°	4.75-5.25VDC	0.5-4.5VDC	356-1076-ND	120.00	110.00	100.00	02183000-000

AngleStar® Digital Protractor

The AngleStar Digital Protractor Model DP-45 provides instant digital display of level, angle and tilt.

Features: • Reads in degrees • Alternate reference (floating zero) • Display hold • High impact plastic carrying case

Description	Linear Range	Operating Temperature Range	Digi-Key Part No.	Price Each			MSI/Schaevitz Part No.
				1	5	20	
Digital Protractor Model DP-45	±45°	0°C ~ 65°C	356-1035-ND	309.00	291.00	263.00	02475-01

DC Powered Voltage Module

The LVM-110 Module is a DC-powered LVDT signal conditioner board consisting of a carrier oscillator, AC amplifier, demodulator, filter, and DC amplifier.

Features: • DC powered • Zero and span controls • Six jumper selectable gains • Plug-in, card edge, or stand-off installation • 2.5kHz, 5kHz or 10kHz excitation

Description	Operating Range	Power Range	Digi-Key Part No.	Price Each			MSI/Schaevitz Part No.
				1	5	10	
LVDT Signal Conditioner Board	3.5 ± 10% Vrms	2.5kHz, 5kHz, 10kHz	356-1001-ND	177.00	165.00	155.00	04171776-000

Dual Channel LVDT Readout/Controller

The Schaevitz microprocessor based LVDT indicator and set-point controller is designed for industrial and process control applications utilizing any LVDT/RVDT-based measurement device.

Features: • 1/4 DIN aluminum case • EL back-lit • LCD display • Standard 9-Pin RS-232 Connector

Description	Linear Range	Operating Temperature Range	Digi-Key Part No.	Price Each	MSI/Schaevitz Part No.
MP2000 Series	<±0.02%	0°C ~ 55°C	356-1075-ND	875.00	02291335-000

AccuStar® Electronic Clinometers

The AccuStar Electronic Clinometer is an extremely accurate angle measurement device. This compact and rugged sensor is ideal where space is critical and environmental conditions are serious design concerns.

Features: • CE certified • Just 2” in diameter • Rugged plastic housing • Extremely accurate • Weighs only 2 oz.

Description	Linear Range	Operating Temperature Range	Digi-Key Part No.	Price Each			MSI/Schaevitz Part No.
				1	10	25	
Single Axis Ratiometric Vertical Flange	±45°	-30°C ~ 65°C	356-1032-ND	139.00	128.00	117.01	02110002-000
Single Axis Ratiometric Horizontal Flange	±45°	-30°C ~ 65°C	356-1033-ND	139.00	128.00	117.01	02110102-000

Ares Series Pressure Transducers

The Ares Series is a small, low cost pressure transducer, which is able to measure pressures as low as 0 ~ 5, 0 ~ 10, 0 ~ 15 inches of water, and 0 ~ 1psig.

Features: • Very low pressure ranges • Small size • PCB mountable • Solder reflow capability • Barbed pressure ports

LM Series Pressure Sensors

The LM Series incorporates stainless steel and plastic isolation suitable for water, other fluid and gas.

Features: • Low pressure ranges • High level output • Small size • Plastic fitting

Description	Output Voltage	Standard Pressure Range	Accuracy % FSO	Digi-Key Part No.	Price Each			MSI/Schaevitz Part No.
					1	10	25	
Ares Series								
PCB Mount	0.5-4.5V	5" H_2O	0.25	356-1036-ND	40.00	32.25	27.30	GA100-005WD
PCB Mount	0.5-4.5V	10" H2O	0.50	356-1037-ND	40.00	32.25	27.30	GA100-010WD
PCB Mount	0.5-4.5V	15" H_2O	0.50	356-1038-ND	40.00	32.25	27.30	GA100-015WD
PCB Mount	0.5-4.5V	1PSI	0.75	356-1039-ND	40.00	32.25	27.30	GA100-001PD
PCB Mount	0.25-4.5V	5" H_2O	0.25	356-1040-ND	40.00	32.25	27.30	GA200-005WD
PCB Mount	0.25-4.5V	10" H_2O	0.50	356-1041-ND	40.00	32.25	27.30	GA200-010WD
PCB Mount	0.25-4.5V	15" H_2O	0.50	356-1042-ND	40.00	32.25	27.30	GA200-015WD
PCB Mount	0.25-4.5V	1PSI	1.2	356-1043-ND	40.00	32.25	27.30	GA200-001PD
LM Series								
1/2” NPT, Plastic Fitting	0.5-4.5V	1PSI	0.25	356-1072-ND	85.00	69.00	56.21	LM31-00000F-001PG
1/2” NPT, Plastic Fitting	0.5-4.5V	5PSI	0.25	356-1073-ND	85.00	69.00	56.21	LM31-00000F-005PG
1/2” NPT, Plastic Fitting	0.5-4.5V	30PSI	0.25	356-1074-ND	85.00	69.00	56.21	LM31-00000F-030PG

High Stability Stainless Steel Pressure Transducer

The UltraStable 300/600 from Schaevitz Sensors, a division of Measurement Specialties, incorporates an ultra-rugged IP 67 rated housing. All wetted parts are constructed of 316 (300 Series)/316L (600 Series) stainless steel, providing media isolation and no internal “O” rings.

Series	Operating Pressure Range	Voltage Supply	Digi-Key Part No.	Price Each			MSI/Schaevitz Part No.
				1	10	100	
0.5-4.5V Output — 1/4” NPT, 2 Foot Cable							
U331	15PSIG	4.75-5.25 VDC	356-1044-ND	100.00	82.00	69.00	US331-000005-015PG
	30PSIG		356-1045-ND	100.00	82.00	69.00	US331-000005-030PG
	100PSIG		356-1046-ND	100.00	82.00	69.00	US331-000005-100PG
	500PSIG		356-1047-ND	100.00	82.00	69.00	US331-000005-500PG
	15PSIA	4.75-5.25 VDC	356-1048-ND	100.00	82.00	69.00	US331-000005-015PA
	30PSIA		356-1049-ND	100.00	82.00	69.00	US331-000005-030PA
	100PSIA		356-1050-ND	100.00	82.00	69.00	US331-000005-100PA
4-20mA Output — 1/4” NPT, 2 Foot Cable							
U381	15PSIG	10-30 VDC	356-1051-ND	105.00	90.00	78.00	US381-000005-015PG
	30PSIG		356-1052-ND	105.00	90.00	78.00	US381-000005-030PG
	100PSIG		356-1053-ND	105.00	90.00	78.00	US381-000005-100PG
	500PSIG		356-1054-ND	105.00	90.00	78.00	US381-000005-500PG
	15PSIA	10-30 VDC	356-1055-ND	105.00	90.00	78.00	US381-000005-015PA
	30PSIA		356-1056-ND	105.00	90.00	78.00	US381-000005-030PA
	100PSIA		356-1057-ND	105.00	90.00	78.00	US381-000005-100PA
0.5-4.5V Output — 1/4” NPT, 2 Foot Cable							
U631	15PSIG	4.75-5.25 VDC	356-1058-ND	160.00	132.00	120.00	US631-C00005-015PG
	30PSIG		356-1059-ND	160.00	132.00	120.00	US631-C00005-030PG
	100PSIG		356-1060-ND	160.00	132.00	120.00	US631-C00005-100PG
	500PSIG		356-1061-ND	160.00	132.00	120.00	US631-C00005-500PG

	U300	U600
Pressure Range (PSIG)	0-15 ~ 500	0-15 ~ 500
Accuracy (combined linearity, hysteresis & repeatability)	±0.10% of FS	±0.10% of FS
Pressure Overload	3X	3X
Burst Pressure	4x or 20,000 PSI	
Outputs VDC or mA	0.5-4.5V 4-20mA	0.5-4.5V 4-20mA
Zero Offset (amplified output)	±0.50% of FS	±0.50% of FS
Span Tolerance	±0.50% of FS	±0.50% of FS
Long-Term Stability, Typical	±0.10% of FS/Year	±0.10% of FS/Year
Operating Temperature (°F)	(-40 ~ 221)	(-58 ~ 257)
(°C)	(-40 ~ 105)	(-50 ~ 125)
Thermo Zero Shift	±0.75% of FS	–
Thermo Span Shift	±0.75% of FS	–

Series	Operating Pressure Range	Voltage Supply	Digi-Key Part No.	Price Each			MSI/Schaevitz Part No.
				1	10	100	
U631	15PSIA	4.75-5.25 VDC	356-1062-ND	160.00	132.00	120.00	US631-C00005-015PA
	30PSIA		356-1063-ND	160.00	132.00	120.00	US631-C00005-030PA
	100PSIA		356-1064-ND	160.00	132.00	120.00	US631-C00005-100PA
4-20mA Output — 1/4” NPT, 2 Foot Cable							
U681	15PSIG	10-30 VDC	356-1065-ND	205.00	173.00	153.75	US681-C00005-015PG
	30PSIG		356-1066-ND	205.00	173.00	153.75	US681-C00005-030PG
	100PSIG		356-1067-ND	205.00	173.00	153.75	US681-C00005-100PG
	500PSIG		356-1068-ND	205.00	173.00	153.75	US681-C00005-500PG
	15PSIA	10-30 VDC	356-1069-ND	205.00	173.00	153.75	US681-C00005-015PA
	30PSIA		356-1070-ND	205.00	173.00	153.75	US681-C00005-030PA
	100PSIA		356-1071-ND	205.00	173.00	153.75	US681-C00005-100PA

Load Cells

MSI Sensors' proprietary Microfused™ technology, derived from demanding aerospace applications, employs micromachined silicon piezoresistive strain gages fused with high temperature glass to a high performance stainless steel substrate.

Features: • Low Cost • Small Size • High Reliability • Fast Response Time • Robust: High Overrange Capability

Dimensions in mm

Fig. 1

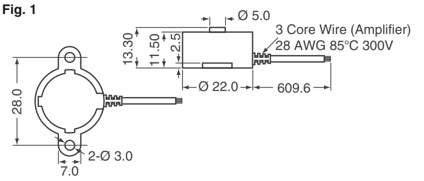

Fig. 2

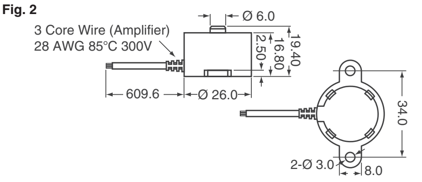

Fig. 3

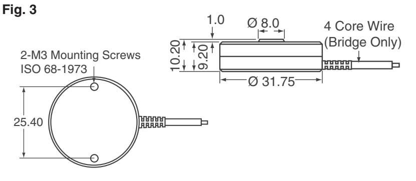

Fig. 4

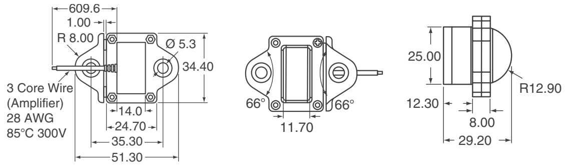

Fig. 5

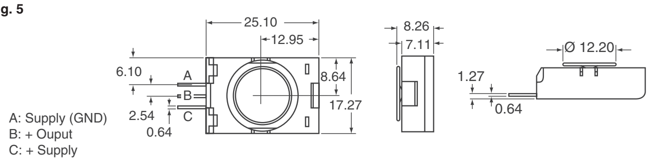

Fig.	Compression/Tension Range (Lbf)	Excitation (VDC)	Output Span Voltage @ ±5% Tolerance	Storage/Operating Temperature Range	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
1	2	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6964-ND ***NEW!***	55.00	44.30	34.00	FC2131-0000-0002-L
	5	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6946-ND	55.00	44.30	34.00	FC2131-0000-0005-L
2	10	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6948-ND	55.00	44.30	34.00	FC2231-0000-0010-L
	25	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6949-ND	55.00	44.30	34.00	FC2231-0000-0025-L
	50	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6950-ND	55.00	44.30	34.00	FC2231-0000-0050-L
	100	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6951-ND	55.00	44.30	34.00	FC2231-0000-0100-L
3	250	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6952-ND	110.00	84.98	69.01	FC2311-0000-0250-L
	500	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6953-ND	110.00	85.00	69.01	FC2311-0000-0500-L
	1000	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6954-ND	110.00	84.98	69.01	FC2311-0000-1000-L
	2000	5.0	10.0 mV/V	-40°C ~ 85°C	MSP6955-ND	110.00	85.00	69.01	FC2311-0000-2000-L
4	10	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6958-ND	55.00	44.30	34.00	FT2431-0000-0010-L
	25	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6959-ND	55.00	44.30	34.00	FT2431-0000-0025-L
	50	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6960-ND	55.00	44.30	34.00	FT2431-0000-0050-L
	100	3.3 - 5.0	0.5 - 4.5 V	-40°C ~ 85°C	MSP6961-ND	55.00	44.30	34.00	FT2431-0000-0100-L
5	750	3.3 - 5.0	1.0 - 4.0 V	-20°C ~ 85°C/0°C ~ 70°C	MSP6962-ND	101.00	81.50	67.60	FS2050-0000-0750-G
	1500	3.3 - 5.0	1.0 - 4.0 V	-20°C ~ 85°C/0°C ~ 70°C	MSP6963-ND	101.00	81.50	67.60	FS2050-0000-1500-G

Senstronics

Sensors with Temperature Output

Senstronics Storm Series is a unique product providing a lifetime of accuracy for combined pressure/temperature applications used in harsh media requiring stainless steel wetted parts. The 17-4PH stainless steel sensor design allows for a wide range of temperature and provides a rugged design that can withstand high levels of shock and vibration.

Specifications: • 1/4 NPTF ***Note:*** Mating harness included with each sensor.

Dimensions in mm

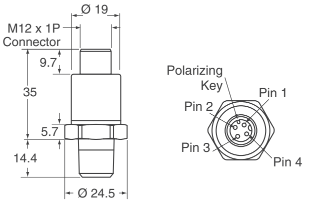

Operating Pressure Range (PSIG)	Operating Temperature Range	Output Voltage	Supply Voltage Range	Digi-Key Part No.	Price Each 1	10	100	Senstronics Part No.
100	-40°C ~ 125°C	0 ~ 5	8 - 30 V	ST00635-ND	81.40	68.20	59.40	ST00635
100	-40°C ~ 125°C	.5 ~ 4.5	8 - 30 V	ST00636-ND	81.40	68.20	59.40	ST00636
150	-40°C ~ 125°C	.5 ~ 4.5	8 - 30 V	ST00126-ND	81.40	68.20	59.40	ST00126
250	-40°C ~ 125°C	0 ~ 5	8 - 30 V	ST00637-ND	81.40	68.20	59.40	ST00637
250	-40°C ~ 125°C	.5 ~ 4.5	8 - 30 V	ST00638-ND	81.40	68.20	59.40	ST00638
500	-40°C ~ 125°C	0 ~ 5	8 - 30 V	ST00639-ND	81.40	68.20	59.40	ST00639
500	-40°C ~ 125°C	.5 ~ 4.5	8 - 30 V	ST00223-ND	81.40	68.20	59.40	ST00223
1000	-40°C ~ 125°C	0 ~ 5	8 - 30 V	ST00640-ND	81.40	68.20	59.40	ST00640
Mating Harness - 1 M Cable Length..				PSA-CBLA41-ND	11.25	8.30	—	PSA-CBLA41

HUMIREL Sensors

The relative humidity sensors by Humirel are based on capacitive cell technology using a patented solid polymer structure. They are fully interchangeable with no calibration required in standard conditions. Suitable for linear voltage or frequency output circuitry. An NTC thermistor is used for temperature measurement.

The RH modules are based on the HS1101 capacitive humidity sensor and are voltage output devices.

The RH/Temperature modules include a NTC thermistor for temperature measurement and are voltage or frequency output.

Features: • High reliability and long term stability • Instantaneous desaturation after long periods in saturation conditions • Fast response times • Patented solid polymer structure

Fig. 1

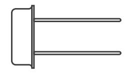

Fig. 2

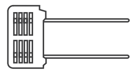

Fig. 3

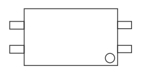

Fig. 4

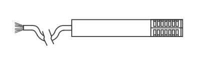

Fig. 5

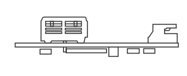

Fig. 6

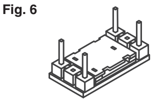

Fig. 7

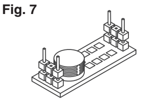

Fig.	Description	Supply Voltage (typ.)	Nom. Cap. @ 55% RH	Response Time	Nominal Out	RH Measuring Range	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100
					Sensors						
1	RH Sensor Top Opening	—	180pF	5 Sec.	—	1 ~ 99% RH	-40° ~ 100°C	HS1100-ND	19.43	15.27	7.48
2	RH Sensor Side Opening	—		5 Sec.			-40° ~ 100°C	HS1101-ND	9.75	8.65	7.15
2	RH Sensor Side Opening	5V		—			-60° ~ 140°C	HS1101LF-ND	9.75	8.65	7.32
3	Temp./RH Sensor SMD Side Opening	5V		10 Sec.			-60° ~ 140°C	HTS2030SMD-ND	14.82	13.14	11.12
					Modules						
4	Temp./RH Module V Out	5V	—	—	2.48V @ 55% RH	1 ~ 99% RH	-30° ~ 70°C	HTM2500-ND	53.12	47.43	37.94
5	Temp./RH Module Freq. Out JST Conn.			10 Sec.	8750 Hz @ 55% RH	0 ~ 99% RH	-30° ~ 80°C	HTF3226LF-ND	17.74	16.68	13.34
6	Temp./RH Module Freq. Out Mini			10 Sec.	6600 Hz @ 55% RH	0 ~ 99% RH	-40° ~ 85°C	HTF3130-ND	18.62	17.50	14.00
7	Temp./RH Module V Out Analog			10 Sec.	2.48V @ 55% RH	0 ~ 100% RH	-40° ~ 100°C	HTM1735-ND	22.53	21.18	16.94
Demo Kit includes: 1 x HM1500, 1 x HM1510*, and 5 x HS1101..								HDEMOKIT-ND	135.50	—	—

* HM1510 - HM1500 with socket at tip to accept HS1101 to test interchangeability

NEW! CHS Series Humidity Sensors

Dimensions in mm

Fig. 1

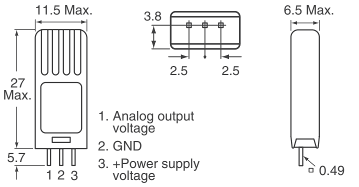

Fig. 2

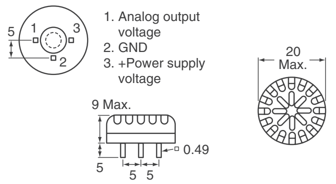

Fig. 3

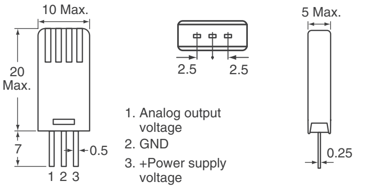

TDK's CHS Series humidity sensors are compact and extremely simple to apply. Because they contain the necessary circuitry, there is no need to provide additional control circuitry or perform time-consuming calibration. With simple connection to a power supply, they will output DC at 100% relative humidity. This makes it possible to read RH directly with a voltmeter.

Fig.	Supply Voltage (VDC)	Measuring Range (%)RH	Nominal Accuracy RH	Digi-Key Part No.	Price Each			TDK Part No.
					1	10	100	
1	5	5-95	±5%	445-2577-ND	51.01	45.92	40.82	CHS-UGS
		5-95	±3%	445-2578-ND	74.40	63.77	55.27	CHS-UPS
2	5	5-95	±3%	445-2579-ND	74.40	63.77	55.27	CHS-UPR
3	5	5-90	±5%	445-2575-ND	34.01	30.61	27.21	CHS-GSS
		20-85	± 5%	445-2576-ND	23.81	21.43	19.05	CHS-MSS

Capacitive Humidity Sensors

Dimensions in mm

The capacitive atmospheric humidity sensor consists of a non-conductive foil, which is covered on both sides with a layer of gold. The dielectric constant of the foil changes as a function of the relative humidity of the ambient atmosphere,v and accordingly, the capacitance value of the sensor is a measure for relative humidity.

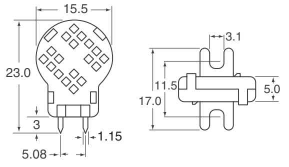

Humidity Range (RH)	Cap.* (pF)	Sensitivity Between 12-75% RH (pF/%RH)	Frequency (kHz)	Max. AC/DC Voltage (V)	Storage Humidity Range (RH)	Ambient Temperature Range (°C)		Digi-Key Part No.	Price Each			BC Components Part No.
						(Operating)	(Storage)		1	10	100	
10-90%	122 ±15%	0.4 ±0.05	1-1000	15	0-100%	0° ~ 85°	-25° ~ 85°	BC1333-ND	11.94	10.23	8.53	2322 691 90001
10-90%	122 ±15%	0.4 ±0.05	1-1000	15	0-100%	0° ~ 85°	-25° ~ 85°	BC2325-ND◊	15.17	13.64	10.75	2381 691 90001

◊ ***RoHS Compliant*** * Capacitance at 25°C; 43% RH; 100 kHz

Ultra Sensitive Pressure Switches

PSF102 Series: Field-adjustable pressure set point. Switch-type SPST normally open. Electrical connections are terminals 0.187” x 0.020” tab-type recessed for use with quick disconnects.

PSF103 Series: Field-adjustable pressure set point. Switch-type SPDT normally open or normally closed.

PSF105 Series: This adjustable switch can achieve set points as low as 0.03” H_2O and up to 2.0” H_2O with a standard tolerance of ±10%. Switch-type is SPST normally open. Its mechanical life is more than twenty million cycles. Electrical connections are two No. 24 AWG wire leads, approximately 11” long, prestripped. • **Operating Temperature:** 40°F ~ 150°F (standard) • **Mounting:** Two No. 4 Screws.

PSFA100A Series: Switch-type is SPST normally open, double-make/double-break. Current Rating is 40mA resistive for life in excess of twenty million cycles. • **Operating Voltage:** AC/DC-30V or less with resistive load; 120 VAC neon lamp load.

PSF109S Series: Vacuum switch with Hysteresis (deadband) for motor control. Field-adjustable vacuum set point. Switch-type is SPDT normally open, normally closed. For use with AMP 2-520182-2 or equivalent.

PS-112 and PS-113 Series: Field-adjustable set point. Switch-type SPDT. Gold contacts for low current. Electrical connections are tab-type terminals 0.25” x 0.03”. • **Operating Temperature:** -25°C ~ 105°C

Dimensions in mm

PSF102

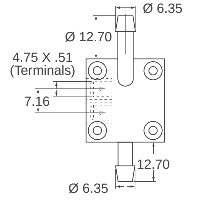

PSF103

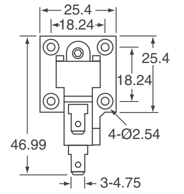

PSF105

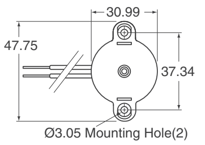

PSF109S

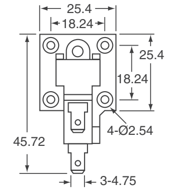

PSF100A

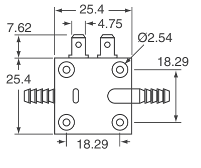

PS-112 and PS-113

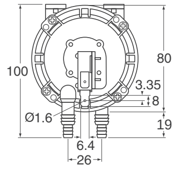

In. H_2O	Tolerance	Proof Pressure	Operating Current/ Voltage	Digi-Key Part No.	Price Each			World Magnetics Part No.
					1	10	100	
PSF102 Series								
0.1–0.5	±0.1 In. H_2O	2 PSI	40mA 30V AC/DC	384-1015-ND	14.80	14.06	10.51	7651-710
0.5–2	±0.2 In. H_2O	4 PSI		384-1016-ND	14.80	14.06	10.51	7651-711
2–15	±0.5 In. H_2O	8 PSI		384-1017-ND	14.80	14.06	10.51	7651-712
15–100	±10%	15 PSI		384-1018-ND	14.80	14.06	10.51	7651-713
100-969	±10%	50 PSI		384-1023-ND	14.80	14.06	10.51	7651-714
PSF103 Series								
2–10	±20%	30 PSI	3A 125/250VAC	384-1010-ND	14.36	13.64	9.39	9011-902
10–28		30 PSI	10A 125/250VAC	384-1011-ND	14.36	13.64	9.39	9011-903
28–111		30 PSI	15A 125/250VAC	384-1012-ND	14.36	13.64	9.39	9011-904
111–416		100 PSI	15A 125/250VAC	384-1013-ND	14.36	13.64	9.39	9061-905
416–1664		100 PSI	15A 125/250VAC	384-1014-ND	14.36	13.64	9.39	9061-906
PSF105 Series — RoHS Compliant								
0.03–2.0	±10%	5 PSI	40 mA 30V AC/DC	384-1024-ND	16.66	15.83	11.83	PSF105-3-ADJ-1-1-1
PSF100A Series								
0.1-0.5	±20%	8 PSI	40mA 30V AC/DC	384-1000-ND	18.94	17.99	13.44	PSF100A-0.5
1.0		8 PSI		384-1019-ND	18.94	17.99	13.44	PSF100A-1.0
1.5		8 PSI		384-1001-ND	18.94	17.99	13.44	PSF100A-1.5
3.0		8 PSI		384-1002-ND	18.94	17.99	13.44	PSF100A-3.0
6.0		15 PSI		384-1003-ND	18.94	17.99	13.44	PSF100A-6.0
10.0		15 PSI		384-1004-ND	18.94	17.99	13.44	PSF100A-10.0
15.0		15 PSI		384-1005-ND	18.94	17.99	13.44	PSF100A-15.0
50.0		15 PSI		384-1006-ND	18.94	17.99	13.44	PSF100A-50.0
PSF109S Series								
3-8	±20%	—	25A 125/250VAC	384-1007-ND	16.24	15.43	11.53	PSF109S-3-8
3-8		—		384-1020-ND	16.24	15.43	11.53	PSF109S-NPT-3-8
9-80		—		384-1008-ND	16.24	15.43	11.53	PSF109S-9-80
81-330		—		384-1009-ND	16.24	15.43	11.53	PSF109S-81-330
81-330		—		384-1022-ND	16.24	15.43	11.53	PSF109S-NPT-81-330
PS-112 and PS-113 Series — RoHS Compliant								
0.2-1.0” WC	±0.08” WC	1 PSI	5A 125/250 VAC	384-1025-ND	15.00	14.25	10.65	PS-112
				384-1026-ND	15.00	14.25	10.65	PS-113

OMRON Photoelectric Sensors

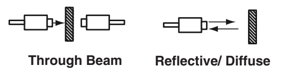

Fig. 1

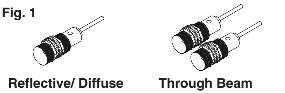

Fig. 2

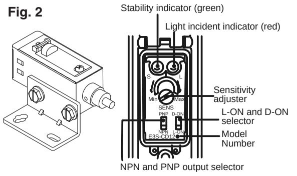
Stability indicator (green)
Light incident indicator (red)
Sensitivity adjuster
L-ON and D-ON selector
Model Number
NPN and PNP output selector

Fig. 3

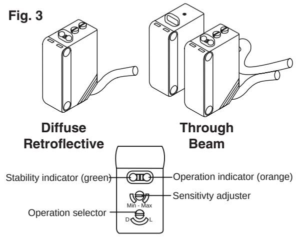

Photoelectric sensors consist of a light source and detector for object detection.

Through-beam sensors use a separate transmitter and receiver, which an object must pass between to block the light.

Retroflective sensors is a combined transmitter/receiver in one body and is reflected. A reflector typically is used to return the beam from the x-mitter back to the receiver. Once an object is moved between the reflector and emitter/detector, the receiver output turns on.

Diffuse reflective is a combined transmitter/receiver in one body. Objects are detected by moving an object closer to the sensor directly from the front, rather than from the side. Once an object has come within the sensing distance, the amount of reflected light is sufficient to trigger the receiver output.

Fig.	Description	Sensing Distance	Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	M18, Diffused Photoelectric Sensor, 10-30VDC, Nickel Plated Brass	3.94" (10cm)	NPN	Z1087-ND	62.60	57.96	54.10	E3F2-DS10C4-N
	M18, Diffused Photoelectric Sensor, 24-240VAC, Plastic Housing	3.94" (10cm)	NPN	Z1088-ND	72.35	66.99	62.53	E3F2-DS10Z1-N
	M18, Retroflective Photoelectric Sensor, 10-30VDC, Plastic Housing	6.56' (2m)	NPN	Z1089-ND	64.41	59.64	55.67	E3F2-R2C4
	M18, Retroflective Photoelectric Sensor, 24-240VAC, Plastic Housing	6.56' (2m)	Light - On	Z1090-ND	74.39	68.88	64.29	E3F2-R2Z1
	M18, Through Beam Photoelectric Sensor, 10-30VDC, Plastic Housing	9.84' (3m)	Light - On	Z1091-ND	108.86	100.80	94.08	E3F2-3Z1
	M18, Diffused Photoelectric Sensor, 10-30VDC, Nickel Plated Brass	3.94" (10cm)	PNP	Z1094-ND	72.12	66.78	62.33	E3F2-DS10C4-C
2	Diffused Photoelectric Sensor, 10-30VDC, Metal Body Horz.	27.6" (70cm)	NPN/PNP	Z1096-ND	153.32	141.96	132.50	E3S-CD11
	Diffused Photoelectric Sensor, 10-30VDC, Metal Body Horz.	6.56' (2m)	NPN/PNP	Z1097-ND	165.11	152.88	142.69	E3S-CD12
	Diffused Photoelectric Sensor, 10-30VDC, Metal Body Vertical	27.6" (70cm)	NPN/PNP	Z1098-ND	153.32	141.96	132.50	E3S-CD61
	Diffused Photoelectric Sensor, 10-30VDC, Metal Body Vertical	6.56' (2m)	NPN/PNP	Z1099-ND	165.11	152.88	142.69	E3S-CD62
	Retroflective Photoelectric Sensor, 10-30VDC, Metal Body, Horz.	9.84' (3m)	NPN/PNP	Z1100-ND	153.32	141.96	132.50	E3S-CR11
	Retroflective Photoelectric Sensor, 10-30VDC, Metal Body, Vertical	9.84' (3m)	NPN/PNP	Z1101-ND	153.32	141.96	132.50	E3S-CR61
	Through Beam Photoelectric Sensor, 10-30VDC, Metal Body, Horz.	98.43' (30m)	NPN/PNP	Z1102-ND	186.88	173.04	161.51	E3S-CT11
	Through Beam Photoelectric Sensor, 10-30VDC, Metal Body, Vertical	98.43' (30m)	NPN/PNP	Z1103-ND	186.88	173.04	161.51	E3S-CT61
3	Compact Long Distance, Photoelectric Sensor, IR Through Beam	49.21' (15m)	NPN	Z1106-ND	97.98	90.72	84.68	E3Z-T61
	Compact Long Distance, Photoelectric Sensor, IR Retroflective	13.12' (4m)		Z1107-ND	78.02	72.24	67.43	E3Z-R61
	Compact Long Distance, Photoelectric Sensor, IR Diffused	3.94" (10cm)	NPN	Z1108-ND	68.49	63.42	59.20	E3Z-D61
	Compact Long Distance, Photoelectric Sensor, IR Diffused	3.28' (1m)	NPN	Z1109-ND	73.03	67.62	63.12	E3Z-D62

Capacitive Proximity Sensors

Capacitive sensors operate similar to Inductive sensors except that a plate is used instead of a coil in the sensors head. This plate develops a capacitive field between the sensor and ground. When an object comes within sensing distance of the sensor, the capacitive field changes which gets detected by the sensor and turns on the output. Perfect for detecting both metallic and non-metallic objects such as glass, wood, water, oils and plastics. Also works well for detecting liquids and solids in containers.

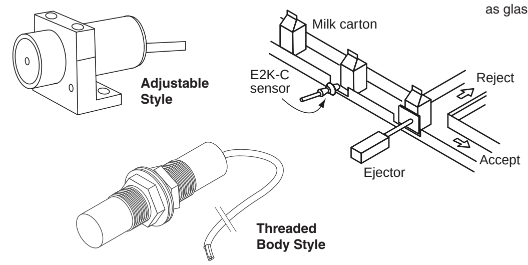

Sensing Distance	Description	Output Type	Digi-Key Part No.	Price Each	Omron Part No.
3-25mm	Amplified Sensor, Adjustable, NO, 10-40VDC	NPN	Z1071-ND	114.31	E2K-C25ME1
3-25mm	Amplified Sensor, Adjustable, NC, 10-40VDC	NPN	Z1072-ND	114.31	E2K-C25ME2
3-25mm	Amplified Sensor, Adjustable, NC, 90-250VAC	SCR	Z1073-ND	114.31	E2K-C25MY1
3-25mm	Amplified Sensor, Adjustable, NC, 90-250VAC	SCR	Z1074-ND	114.31	E2K-C25MY2
Mounting Bracket for E2K-C Sensors			Z1659-ND	4.54	Y92E-A34
0-4mm	M12, 3 Wire Sensor, THD Body, NO, 10-30VDC	PNP	Z2356-ND	91.63	E2K-X4MF1
0-8mm	M18, 3 Wire Sensor, THD Body, NO, 30VDC	PNP	Z2426-ND	87.32	E2K-X8MF1
0-15mm	M30, 3 Wire Sensor, THD Body, NO, 10-30VDC	PNP	Z2427-ND	92.53	E2K-X15MF1
0-4mm	M12, 3 Wire Sensor, THD Body, NO, 10-30VDC	NPN	Z2423-ND	91.63	E2K-X4ME1
0-8mm	M18, 3 Wire Sensor, THD Body, NO, 10-30VDC	NPN	Z2424-ND	87.32	E2K-X8ME1
0-15mm	M30, 3 Wire Sensor, THD Body, NO, 10-30VDC	NPN	Z2425-ND	92.53	E2K-X15ME1
0-8mm	M18, 2 Wire Sensor, THD Body, NO, 90-250VAC	SCR	Z2421-ND	110.68	E2K-X8MY1
0-15mm	M30, 2 Wire Sensor, THD Body, NO, 90-250VAC	SCR	Z2422-ND	119.75	E2K-X15MY1

Optical Fiber Optic Amplifiers

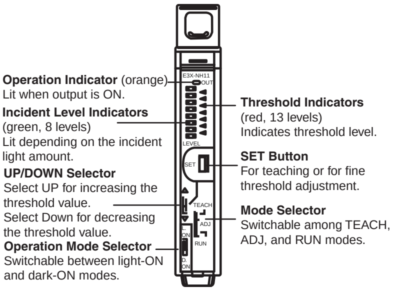
Operation Indicator (orange)
Lit when output is ON.
Incident Level Indicators
(green, 8 levels)
Lit depending on the incident light amount.
UP/DOWN Selector
Select UP for increasing the threshold value.
Select Down for decreasing the threshold value.
Operation Mode Selector
Switchable between light-ON and dark-ON modes.
Threshold Indicators
(red, 13 levels)
Indicates threshold level.
SET Button
For teaching or for fine threshold adjustment.
Mode Selector
Switchable among TEACH, ADJ, and RUN modes.
E3X-NH11
OUT
LEVEL
SET
TEACH
ADJ
RUN
ON

Omron's E3X-NH series of high performance Fiber Optic Amplifiers contain true 16 Bit processor which allows a very fine tuning sensitivity feature. Three separate teach modes for hassle free setup for different applications. Ideal for detecting very small objects or fine wires.

The E3X series feature high performance, fast switching response times. Set-mode blinking output aids in alignment. Sensing distances vary with the type of fiber used.

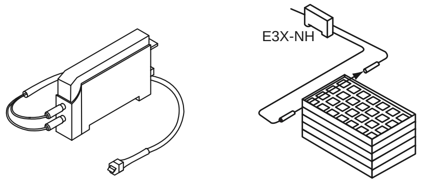

Description	Output Type	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
High Precision General Purpose Fiber Optic Amplifier, 12-24VDC	NPN	None	Z1110-ND	169.65	157.08	146.61	E3X-NH11
High Precision General Purpose Fiber Optic Amplifier, 12-24VDC	PNP	None	Z1111-ND	169.65	157.08	146.61	E3X-NH41
High Precision GP Fiber Optic Amplifier w/Timer 12-24VDC	NPN	w/Delay Off	Z1112-ND	169.65	157.08	146.61	E3X-NH21
High Precision GP Fiber Optic Amplifier w/Timer 12-24VDC	PNP	w/Delay Off	Z1113-ND	169.65	157.08	146.61	E3X-NH51
High Performance GP Fiber Optic Amplifier 10-30VDC	NPN	None	Z1114-ND	135.17	125.16	116.82	E3X-A11
High Performance GP Fiber Optic Amplifier 10-30VDC	PNP	None	Z1115-ND	135.17	125.16	116.82	E3X-A41
High Performance GP Fiber Optic Amplifier w/Timer 10-30VDC	NPN	w/Delay Off	Z1116-ND	149.69	138.60	129.36	E3X-A21
High Performance GP Fiber Optic Amplifier w/Timer 10-30VDC	PNP	w/Delay Off	Z1117-ND	149.69	138.60	129.36	E3X-A51

Fiber Cables for E3X Amplifiers

Fig. 1

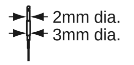

Fig. 2

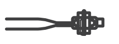

Fig. 3

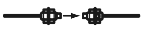

Fig. 4

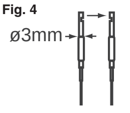

Premade fiber optic cables that enable very confined mounting spaces and very fast target detection. Use **Through-beam** for long distance detection where your transmit and receive cable are separated. Use **Concentric Beam** for depth detection or changing target distances where eliminating background objects is required. Periscope sensing heads (Side Beam) save space in right angle detecting. Most fiber cables offer IP67 protection and temperature ratings of -40°C ~ 70°C.

Fig.	Description	Distance Max.	Terminal Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1	Diffuse Side Beam Fiber Optic Cable, 2mm dia.	.6" (1.5cm)	2m Cable	Z1118-ND	101.61	94.08	87.81	E32-D24
	Diffuse Top Beam Fiber Optic Cable, Concentric Beam, 2mm dia.	.79" (2cm)	2m Cable	Z1119-ND	69.17	64.05	59.78	E32-D32
2	Diffuse Top Beam Fiber Optic Cable, Low Cost, M6 THD	.79" (2cm)	2m Cable	Z1120-ND	47.63	44.10	41.16	E32-DC200
	Diffuse Top Beam Fiber Optic Cable, Mini, M3 THD	.71" (1.8cm)	2m Cable	Z1121-ND	57.83	53.55	49.98	E32-DC200E
	Diffuse Top Beam Fiber Optic Cable, Concentric Beam, M6 THD	3" (7.5cm)	2m Cable	Z1122-ND	52.84	48.93	45.67	E32-CC200
	Cable Fiber Optic, Top Beam, High Temp, M6 THD	1.8" (4.5cm)	2m Cable	Z1187-ND	210.47	194.88	181.89	E32-D61
3	Diffuse Top Beam Fiber Optic Cable, Through Beam, M3 THD	4.72" (12cm)	2m Cable	Z1123-ND	47.63	44.10	41.16	E32-TC200A
	Cable Fiber Optic, Through Beam, Low Cost, M4 THD	7.88" (20cm)	2m Cable	Z1188-ND	47.63	44.10	41.16	E32-TC200
4	Through Beam Fiber Optic Cable, Side Beam, 3mm dia.	4.72" (12cm)	2m Cable	Z1124-ND	79.38	73.50	68.60	E32-T14L

QUANTUM RESEARCH GROUP Sensors

QProx™ / QTouch™ Charge-Transfer (“QT”) General Description: These are self-contained digital capacitance ICs capable of detecting proximity, touch, and fluid level. With appropriate electrodes they can sense through sealed surfaces made of glass, plastic, stone, ceramic, and wood, up to thicknesses of several inches. This capability coupled with an ability to continuously calibrate leads to new product concepts. They are designed specifically for control panels in home appliances, PC peripherals, machinery, security systems, lighting controls, or anywhere a mechanical switch or button may be found. Versions also available for fluid sensing.

Description	Supply Voltage Minimum	Supply Voltage Maximum	Supply Current (Typical)	Operating Temperature	Package	Digi-Key Part No.	Price Each 1	Price Each 50	Price Each 100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Quantum Part No.
QT113H QProx™ 8-Pin IC	2.45	5.25	700µA	-40°C ~ 85°C	8-SOIC	427-1014-1-ND	2.24	2.02	1.82	427-1014-2-ND	3,300	1543.00/M	QT113H-IS
QT115 QProx™ 8-Pin IC	2.50	5.25	20µA	-40°C ~ 85°C	8-SOIC	427-1020-ND	2.24	2.02	1.82	—	—	—	QT115-IS
QT118H QProx™ 8-Pin IC	2.45	5.25	20µA	-40°C ~ 85°C	8-SOIC	427-1022-1-ND	2.24	2.02	1.82	427-1022-2-ND	3,300	1543.00/M	QT118-IS
QT140 QProx™ 4-Key Sensor IC	3.0	5.5	2.5-8.0mA	0°C ~ 70°C	28-Dip	427-1059-ND	2.89	2.60	2.34	—	—	—	QT140-D
QT140 QProx™ 4-Key Sensor IC				-40°C ~ 105°C	28-SSOP	427-1060-ND	2.89	2.60	2.34	—	—	—	QT140-AS
QT150 QProx™ 5-Key Sensor IC	3.0	5.5	2.5-8.0mA	0°C ~ 70°C	28-Dip	427-1061-ND	3.27	2.94	2.65	—	—	—	QT150-D
QT150 QProx™ 5-Key Sensor IC				-40°C ~ 105°C	28-SSOP	427-1062-ND	3.27	2.94	2.65	—	—	—	QT150-AS
QT160 QProx™ 6-Key Sensor IC	3.5	5.5	2.5-8.0mA	-40°C ~ 105°C	28-SSOP	427-1064-1-ND	5.06	4.57	4.11	—	—	—	QT160-AS
QT161 QProx™ 6-Key Sensor IC	3.0	5.5	2.5-8.0mA	0°C ~ 70°	28-Dip	427-1081-ND	7.12	6.48	5.78	—	—	—	QT161-D
QT301 Sensor IC CAC Analog Out	3.0	5.0	5000µA	0°C ~ 70°C	8-Dip	427-1072-ND	3.84	3.46	3.11				QT301-D
QT301 Sensor IC CAC Analog Out				-40°C ~ 85°C	8-SOIC	427-1073-1-ND	3.20	2.91	2.58	427-1073-2-ND	2,000	2208.00/M	QT301-IS
RoHS Compliant													
QT1080 QTouch™ 8-Pin IC	2.8	5.0	45µA	-40°C ~ 85°C	32-QFN	427-1090-1-ND	3.63	3.29	2.92	427-1090-2-ND	2,500	2500.00/M	QT1080-ISG
QT110 QProx™ 8-Pin IC	2.5	5.0	20µA	0°C ~ 70°C	8-Dip	427-1091-ND	3.50	2.03	1.90	—	—	—	QT110-DG
QT110 QProx™ 8-Pin IC				-40°C ~ 85°C	8-SOIC	427-1092-1-ND	3.50	2.03	1.90	427-1092-2-ND	3,300	1550.00/M	QT110-ISG
QT1100 QTouch™ 10-Key Sensor IC	3.3	5.0	10mA max.	-40°C ~ 85°C	48-SSOP	427-1093-1-ND	3.50	2.03	1.90	427-1093-2-ND	1,000	1550.00	QT1100A-ISG
QT1100 QTouch™ 10-Key Sensor IC	2.8	5.5	60µA	-40°C ~ 85°C	32-QFN	427-1094-1-ND	3.50	2.03	1.90	427-1094-2-ND	2,500	1550.00/M	QT1101-ISG
QT113 QProx™ 8-Pin IC	2.45	5.25	600µA	0°C ~ 70°C	8-Dip	427-1095-ND	3.50	2.03	1.90	—	—	—	QT113-DG
QT113 QProx™ 8-Pin IC				-40°C ~ 85°C	8-SOIC	427-1096-1-ND	3.50	2.03	1.90	427-1096-2-ND	3,300	1550.00/M	QT113-ISG
QT117 QProx™ 8-Pin IC				-40°C ~ 85°C	8-SOIC	427-1097-1-ND	5.01	2.91	2.71	427-1097-2-ND	3,300	1550.00/M	QT117L-ISG
QT118H QProx™ 8-Pin IC	5	6.5	20µA	0°C ~ 70°C	8-Dip	427-1098-ND	3.50	2.03	1.90	—	—	—	QT118H-DG
QT118H QProx™ 8-Pin IC				-40°C ~ 85°C	8-SOIC	427-1099-1-ND	3.50	2.03	1.90	427-1099-2-ND	3,300	1550.00/M	QT118H-ISG
QT140 QProx™ 4-Key Sensor IC	3.0	5.0	5.0mA	-40°C ~ 105°C	28-SSOP	427-1111-1-ND	4.34	3.94	3.49	427-1111-2-ND	2,100	2992.50/M	QT140-ASG
QT160 QProx™ 6-Key Sensor IC	3.0	5.5	5.0mA	0°C ~ 70°C	28-Dip	427-1100-ND	6.62	5.97	5.37	—	—	—	QT160-DG
QT160 QProx™ 6-Key Sensor IC				-40°C ~ 85°C	28-SSOP	427-1101-1-ND	5.08	4.61	4.08	427-1101-2-ND	2,100	3498.00/M	QT160-ISG
QT240 QTouch™ 4-Key Sensor IC	3.9	5.0	1.5mA	-40°C ~ 85°C	20-SSOP	427-1102-1-ND	3.46	3.15	2.81	427-1102-2-ND	2,000	2394.00/M	QT240-ISS-G
QT401 QSlide™ Touch Slider IC	2.5	5.5	1.5mA max.	-40°C ~ 85°C	14-SOIC	427-1103-1-ND	3.60	3.28	2.92	427-1103-2-ND	2,600	2487.00/M	QT401-ISG
QT401 QSlide™ Touch Slider IC					14-TSSOP	427-1104-1-ND	3.61	3.28	2.90	427-1104-2-ND	2,500	2487.00/M	QT401-ISSG
QT510 QWheel™ Touch Slider IC	2.5	5.5	1.5mA max.	-40°C ~ 85°C	14-SOIC	427-1105-1-ND	4.30	3.92	3.49	427-1105-2-ND	2,600	2979.00/M	QT510-ISG
QT510 QWheel™ Touch Slider IC					14-TSSOP	427-1106-1-ND	4.32	3.92	3.48	427-1106-2-ND	2,500	2979.00/M	QT510-ISSG
QT60168 QProx™ 16-Key QMatrix™ IC	4.75	5.25	25mA max.	-40°C ~ 105°C	32-TQFP	427-1107-ND	5.23	4.71	4.24	—	—	—	QT60168-ASG
QT60248 QProx™ 24-Key QMatrix™ IC					32-TQFP	427-1108-ND	6.57	5.93	5.34	—	—	—	QT60248-ASG
QT60326 QProx™ 32-Key QMatrix™ IC	-0.5	5.5	±10mA	-40°C ~ 105°C	44-TQFP	427-1109-ND	8.22	7.41	6.99	—	—	—	QT60326-ASG
QT60486 QProx™ 48-Key QMatrix™ IC					44-TQFP	427-1110-ND	9.86	8.90	8.39	—	—	—	QT60486-ASG

QProx™ Evaluation Boards and Modules

Description	Digi-Key Part No.	Price Each	Quantum Part No.
E11X Demo Board for QT110, QT111, QT112 and QT113 QTouch™ ICs	427-1067-ND	20.00	E11X
E160 6-Key Evaluation Board	427-1068-ND	75.00	E160
E240 Evaluation Board for QT240 4-Key QTouch™ IC	427-1082-ND	60.00	E240
E401 Evaluation Kit for QT401 QSlide™ IC	427-1084-ND	95.00	E401 KIT
E510 Evaluation Kit for QT510 QWheel™ IC	427-1085-ND	95.00	E510 KIT

Description	Digi-Key Part No.	Price Each	Quantum Part No.
E616 Evaluation Board for QT60161 16-Key QMatrix™ IC with Software	427-1044-ND	180.00	E616
E1080 Evaluation Board for QT1080-IS 8-Key QTouch™ IC	427-1089-ND	60.00	E1080 KIT
E1100 Evaluation Board for QT1100 10-Key QTouch™ IC	427-1083-ND	95.00	E1100
E6248 Evaluation Board for QT60248 24-Key QMatrix™ IC	427-1087-ND	185.00	E6248
E6486 Evaluation Board for QT60486 48-Key QMatrix™ IC	427-1088-ND	190.00	E6486

ANALOG DEVICES iMEMS® Accelerometers and Gyroscopes

Description	G Range	Axes	Resolution	Band-width	Voltage	Supply Current	Package	Digi-Key Part No.	Price Each 1	Price Each 25	Price Each 100	Tape & Reel Size	Tape & Reel Pricing
Accelerometers													
Single Axis, High Precision, Low Power	±1.5g	X	1mg	10Hz	3V-6V	0.7mA	8-CLCC	ADXL103CE-ND	15.83	14.25	12.64	—	—
Single Axis, Low Power	±35g		1.1mg	400Hz	5V	1.3mA	8-CLCC	AD22279-A-R2CT-ND§	11.66	10.50	9.31	250	2231.25
Single Axis, Low Power	±50g		1.4mg	400Hz	5V	1.3mA	8-CLCC	AD22280-R2CT-ND§	11.66	10.50	9.31	250	2231.25
Single Axis, Low Power	±70g		1.8mg	400Hz	5V	1.3mA	8-CLCC	AD22281-R2CT-ND§	11.66	10.50	9.31	250	2231.25
Single Axis, Low Power	±120g		3mg	400Hz	5V	1.5mA	8-CLCC	AD22282-A-R2CT-ND§	12.83	11.55	10.25	250	2454.50
Single Axis, Low Power	±250g		5mg	400Hz	5V	1.5mA	8-CLCC	AD22283-B-R2CT-ND§	12.83	11.55	10.25	250	2454.50
Dual Axis, Digital Out	±10g	X, Y	2mg	60Hz	3V-5V	1mA	8-LCC	ADXL210JE-ND	15.30	14.28	13.26	—	—
Dual Axis, Low Power, Digital Out	±1.2g		1mg		3V-6V	0.7mA		ADXL213AE-ND	23.28	18.63	15.72	—	—
Dual Axis, Low Power, Digital Output	±2g	X, Y	5mg	6kHz	2.7V-5V	0.5mA	8-LCC	ADXL202AE-ND*	17.46	16.30	15.14	—	—
								ADXL202JE-ND*	15.30	14.28	13.26	—	—
Dual Axis, High Precision, Low Power	±1.5g	X, Y	1mg	10Hz	3V-6V	0.7mA	8-CLCC	ADXL203CE-ND	22.50	21.00	19.50	—	—
Dual Axis, Low Power, Digital Output	±10g		10mg	6kHz	2.7V-5V	0.5mA	8-LCC	ADXL210AE-ND*	17.46	16.30	15.14	—	—
Dual Axis, High Resolution	±50g		10mg	1kHz	4V-5V	3.5mA	14-CERPAK	ADXL250AQC-ND	22.67	21.16	19.65	—	—
Dual Axis, Low-Cost, Analog Outputs	±2g		5mg	6kHz	2.4V-5V	0.4mA	8-CLCC	ADXL311JE-ND	8.50	7.65	6.79	—	—
Dual Axis, Low Power, Small, Thin	±5g		2mg	2.5kHz	2.4V-5.25V	0.45mA	16-Lead LFCSP	ADXL320JCP-ND	8.33	7.50	6.65	—	—
Dual Axis, Low Power	±35g		1.1mg	400Hz	5V	2.2mA	8-CLCC	AD22284-A-R2CT-ND§	15.75	14.70	13.65	250	3347.00
Dual Axis, Low Power	±50g		1.4mg	400Hz	5V	2.2mA	8-CLCC	AD22285-R2CT-ND§	15.75	14.70	13.65	250	3347.00
Dual Axis, Low Power	±70g		1.8mg	400Hz	5V	2.2mA	8-CLCC	AD22286-R2CT-ND§	15.75	14.70	13.65	250	3347.00
Dual Axis, Low Power	±18g	X, Y	3mg	50Hz	2.4V-6V	.49mA	16-LFCSP	ADXL321JCP-ND	8.33	7.50	6.65	—	—
Dual Axis, Low Power	±2g	X, Y	2mg	60Hz	2.4V-6V	.45mA	16-LFCSP	ADXL322JCP-ND	8.33	7.50	6.65	—	—
Gyroscopes													
Single Chip Yaw Rate Gyro	±150°/s	Z	0.05°/s/=Hz	40Hz	4.75V-5.25V	6.0mA	32-BGA	ADXRS150ABG-ND	49.50	46.20	42.90	—	—
	±300°/s		0.1°/s/=Hz					ADXRS300ABG-ND	49.50	46.20	42.90	—	—
	±75°/s		0.05°/s/=Hz					ADXRS401ABG-ND	42.00	39.20	36.40	—	—

* Not recommended for new design. § For Tape and Reel part number, change CT-ND to TR-ND.

ADXL190EM-1-ND	Evaluation Board for the ADXL190, Single Axis, 400kHz Bandwidth	**$285.00**
ADXRS150EB-ND	Evaluation Board for the ADXRS150, ±150°/s Single Chip Rate Gyro	**$75.00**

ADXRS300EB-ND	Evaluation Board for the ADXRS300, ±300°/s Single Chip Rate Gyro	**$75.00**
ADXL320EB-ND	Evaluation Board for the ADXL320, Dual Axis ±5g Accelerometer	**$44.93**

MEASUREMENT SPECIALTIES

Accelerometer

ACH-01-03 with Shielded Cable Dimensions in mm

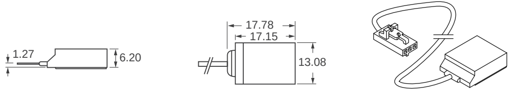

The ACH-01 Accelerometer is a robust, general purpose, linear single axis accelerometer featuring buffered electronic output.

Specifications: • **Sensitivity:** 10mV/g • **Lower Frequency Limit (-3dB):** 2Hz • **Upper Frequency Limit (+3dB):** 20kHz • **Dynamic Range:** ±150g • **Linearity:** 0.1% • **Resonant Frequency:** 35kHz • **Operating Temperature:** -40°C ~ 85°C • **Maximum Shock Level:** 1000g

Description	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
ACH-01-03 Sensor Accelerometer with 40” Single Coax Cable and Female Connector	MSP1001-ND	30.00	24.00	16.80	1-1001220-0
ACH-01-04 Sensor Accelerometer with Wires	MSP1002-ND	30.00	24.00	16.80	1-1001497-0

3-Axis Accelerometer/Shock Sensor

ACH-04-08-05 Dimensions in mm

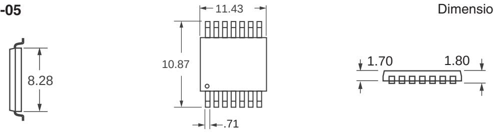

The ACH-04-08-05 accelerometer/shock sensor contains three piezoelectric sensing elements oriented to measure acceleration in three orthogonal, linear axes. “Internal JFET’s provide for a low impedance, buffered output with a wide variety of possible application specific signal conditioning circuitry. It can be used in a wide range of applications including motional measurement and control systems, speaker feedback systems, vibration switches, shipment monitor and material handling systems, security systems, computer input/output devices and data loggers.”

Specifications: • **Sensitivity:** 1.8mV/g Typical • **Frequency Limit (±3dB):** .35-5kHz • **Dynamic Range:** ±250g • **Linearity:** 0.1% • **Resonant Frequency:** 9.2kHz • **Operating Temperature:** -40°C ~ 85°C • **Maximum Shock Level:** 1000g

Description	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
ACH-04-08-05 — Surface Mount 3-Axis Sensor Accelerometer	MSP1004-ND	31.25	25.00	17.50	0-1003800-5
ACH-04-08-05 PCB — Surface Mount 3-Axis Sensor Accelerometer with PCB	MSP1005-ND	50.00	43.75	35.00	0-1005685-1

LDT Vibration Sensor

Typically, a 0.005” (125µm) polyester layer is laminated to a 28µm piezo film element. When used in a “bending” mode, laminated film elements develop much higher voltage output when flexed than non-laminated elements. The piezo film is off the neutral axis in the laminate, and is strained more when flexed.

LDTM

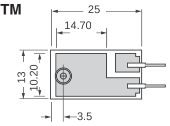

Also available with a mass (M) which provides higher output (mv/g) for higher sensitivity applications.

MiniSense

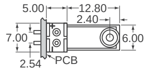

LDT0-028K High Sensitivity

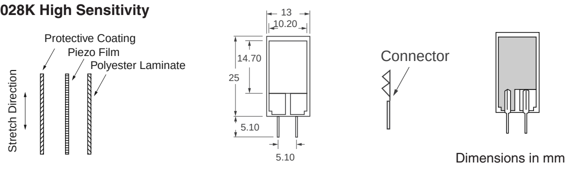

Dimensions in mm

Description	Cap (nF)	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
LDT0-028K, with Solder Tabs	.500	MSP1006-ND	1.20	.90	.50	1002794-0
LDTM-028K, with Mass and Solder Tabs	.420	MSP1007-ND	2.00	1.50	.83	0-1005447-1
MiniSense 100 (Horizontal)	—	MSP6914-ND	3.00	2.25	1.25	1005939-1
MiniSense 100 (Vertical)	—	MSP6915-ND	3.00	2.25	1.25	1005940-1

Amplifier Box

For use with ACH-01-03 and ACH-01-04

Characteristics: • **Gain:** 10X • **Power Supply:** 9V Battery • **Supply Current:** 4.0mA • **Input Interface:** FET for ACH-01 • **Output Impedance:** 100Ω • **Output Connector:** BNC

Description	Digi-Key Part No.	Price Each 1	10	100	MSI Part No.
IB-ACH-01 — Amplifier Box	MSP1003-ND	92.50	77.50	67.50	0-1003058-0

Basic Design Kit

This kit demonstrates the use of MSI piezo film sensors as microphones, speakers, switches and acoustic pickups. All components and film samples in the kit can be used for experimentation. **Kit includes:** Seven sensor elements, one piezo cable, one PCB for ACH-04-08, application/instruction specs, and technical manual.

Description	Digi-Key Part No.	Price Each	MSI Part No.
Basic Design Kit	MSP1010-ND	113.75	0-1004308-0

VTI TECHNOLOGIES

Accelerometers and Inclinometers

VTI Technologies is a forerunner in motion and pressure sensors and the world’s leading designer and producer of acceleration sensors. VTI develops and produces silicon based capacitive sensors with unique 3D-MEMS (MicroElectroMechanical System) technology, with application areas in acceleration, inclination, shock, vibration and pressure measurement.

Fig. 1

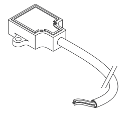

Fig. 2

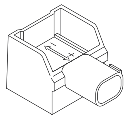

Fig.	Description	Supply Voltage	Current Consumption	Measuring Range	Sensitivity	Frequency Response	Temperature Range	Package	Digi-Key Part No.	Price Each 1	10	25	Tape and Reel Size	Tape and Reel Pricing*	VTI Part No.
							Inclinometer								
—	Single Output, 1g	4.75-5.25V	2.5mA	±90°	2V/g	8-28Hz	-55°C ~ 125°C	8-DIL SMD	551-1005-1-ND	50.76	48.23	45.82	100	3942.00	SCA61T-FA1H1G
	Single Output, 0.5g	4.75-5.25V	2.5mA	±30°	4V/g	8-28Hz	-55°C ~ 125°C	8-DIL SMD	551-1004-1-ND	50.76	48.23	45.82	100	3942.00	SCA61T-FAHH1G
	Dual Output, 0.5g	4.75-5.25V	4mA	±30°	4V/g	8-28Hz	-55°C ~ 125°C	12-DIL SMD	551-1002-1-ND	65.88	62.59	59.46	100	5184.00	SCA100T-D01
	Dual Output, 1g	4.75-5.25V	4mA	±90°	2V/g	8-28Hz	-55°C ~ 125°C	12-DIL SMD	551-1003-1-ND	65.88	62.59	59.46	100	5184.00	SCA100T-D02
	Single Output, 0.26g	4.75-5.25V	3.8mA	±15°	16V/g	8-28Hz	-55°C ~ 125°C	12-DIL SMD	551-1000-1-ND	65.88	62.59	59.46	100	5184.00	SCA103T-D04
	Single Output, 0.5g	4.75-5.25V	3.8mA	±30°	8V/g	8-28Hz	-55°C ~ 125°C	12-DIL SMD	551-1001-1-ND	65.88	62.59	59.46	100	5184.00	SCA103T-D05
							Accelerometer								
—	Dual Output	4.75-5.25V	5mA	±1.7g	1.2V/g	50±30Hz	-55°C ~ 125°C	12-DIL SMD	551-1007-1-ND	47.52	45.15	42.89	100	3564.00	SCA1000-D01
	Dual Output	4.75-5.25V	5mA	±1.7g	1.2V/g	50±30Hz	-55°C ~ 125°C	12-DIL SMD	551-1008-1-ND	57.24	54.38	51.66	100	4428.00	SCA1020-D02
	Single Output	4.75-5.25V	2mA	±0.5g	4V/g	18±10Hz	-55°C ~ 125°C	8-DIL SMD	551-1009-1-ND	45.36	43.10	40.94	600	14904.00	SCA610-CAHH1G
	Single Output	4.75-5.25V	2mA	±1g	2V/g	18±10Hz	-55°C ~ 125°C	8-DIL SMD	551-1010-1-ND	45.36	43.10	40.94	600	14904.00	SCA610-CA1H1G
	Single Output	4.75-5.25V	2mA	±1.5g	1.333V/g	50±30Hz	-55°C ~ 125°C	8-DIL SMD	551-1011-1-ND	37.80	34.02	32.32	600	11664.00	SCA610-C23H1A
	Single Output	4.75-5.25V	2mA	±1.7g	1.2V/g	50±30Hz	-55°C ~ 125°C	8-DIL SMD	551-1012-1-ND	37.80	34.02	32.32	600	11664.00	SCA610-C28H1A
	Single Output	4.75-5.25V	2mA	±1.7g	1.2V/g	50±30Hz	-55°C ~ 125°C	8-DIL SMD	551-1013-1-ND	43.20	41.04	38.99	600	14580.00	SCA620-CF8H1A
							Stand Alone Inclinometer and Accelerometer								
1	Single Axis	7-35V	5mA	±30°	70mV/°	18Hz	—	Module	551-1019-ND	108.00	91.80	78.84	—	—	SCA111T-D02
	Dual Axis	7-35V	5mA	±90°	35mV/°	18Hz	—	Module	551-1017-ND	132.30	108.00	91.80	—	—	SCA121T-D03
	Dual Axis	7-35V	5mA	±30°	70mV/°	18Hz	—	Module	551-1018-ND	132.30	108.00	91.80	—	—	SCA121T-D07
	Single Axis	7-35V	20mA	±30°	0.035°/LSB	10-28HZ	—	Module	551-1016-ND	182.25	155.25	135.00	—	—	SCA115T-D03-A
	Dual Axis	7-35V	20mA	±90°	0.07°/LSB	10-28Hz	—	Module	551-1014-ND	216.00	183.60	162.01	—	—	SCA125T-D06-A
	Dual Axis	7-35V	20mA	±30°	0.035°/LSB	10-28Hz	—	Module	551-1015-ND	216.00	183.60	162.01	—	—	SCA125T-D08-A
2	Stand Alone Single	4.5-5.5V	2mA	±2g	1V/g	45Hz	—	Module	551-1024-ND	64.80	52.92	44.28	—	—	SCA220-C24H1G
—	Dual Axis Subassembly	7-28V	4.5mA	±10°	200mV/°	1-3Hz	—	PC Board	551-1020-ND	94.50	78.30	67.50	—	—	SCL1700-D01
—	4 Channel Sensor - Demo Kit	—	—	±1g	2V/g On Board	Up to 300Hz	—	Demo Kit	551-1006-ND	486.00	—	—	—	—	DEMO KIT

* For Tape and Reel part number, change 1-ND to 2-ND.

muRata
Innovator in Electronics

SMD NTC Thermistors

Features: • Excellent solderability and high stability in environment • Long time aging stability • High accuracy in resistance and B-constant • Reflow soldering possible • Lead is not contained in the product • Operating Temperature Range -40°C ~ 125°C

Dimensions (mm)	0402	0603	0805
A	1.0	1.6	2.0
B	0.5	0.8	1.25
C	0.25	0.6	0.7

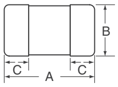

Resistance (25°C) Ω	B-Constant (25-50°C) (K)	Toler-ance (@25°C)	Max. Operating Current (25°C) (mA)	Rated Electric Power (25°C) (mW)	Typical Dissipation Constant (25°C) (mW/°C)	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		Murata Part No.
							1	10	100		Size	Pricing	
0402 Series													
22	3100 ± 3%	±5%	6.70	100	1	490-2408-1-ND	.15	.13	.11	490-2408-2-ND	10,000	52.59/M	NCP15XC220J03RC
33	3100 ± 3%	±5%	5.50	100	1	490-2409-1-ND	.15	.13	.11	490-2409-2-ND	10,000	52.59/M	NCP15XC330J03RC
47	3100 ± 3%	±5%	4.60	100	1	490-2410-1-ND	.15	.13	.11	490-2410-2-ND	10,000	52.59/M	NCP15XC470J03RC
68	3100 ± 3%	±5%	3.80	100	1	490-2411-1-ND	.15	.13	.11	490-2411-2-ND	10,000	52.59/M	NCP15XC680J03RC
100	3250 ± 3%	±5%	3.10	100	1	490-2412-1-ND	.15	.13	.11	490-2412-2-ND	10,000	52.59/M	NCP15XF101J03RC
150	3250 ± 3%	±5%	2.50	100	1	490-2413-1-ND	.15	.13	.11	490-2413-2-ND	10,000	52.59/M	NCP15XF151J03RC
220	3500 ± 3%	±5%	2.10	100	1	490-2415-1-ND	.15	.13	.11	490-2415-2-ND	10,000	52.59/M	NCP15XM221J03RC
330	3500 ± 3%	±5%	1.70	100	1	490-2416-1-ND	.15	.13	.11	490-2416-2-ND	10,000	52.59/M	NCP15XM331J03RC
470	3650 ± 3%	±5%	1.40	100	1	490-2419-1-ND	.15	.13	.11	490-2419-2-ND	10,000	52.59/M	NCP15XQ471J03RC
680	3650 ± 3%	±5%	1.20	100	1	490-2420-1-ND	.15	.13	.11	490-2420-2-ND	10,000	52.59/M	NCP15XQ681J03RC
1.0K	3650 ± 3%	±5%	1.00	100	1	490-2418-1-ND	.15	.13	.11	490-2418-2-ND	10,000	52.59/M	NCP15XQ102J03RC
1.5K	3950 ± 3%	±5%	0.81	100	1	490-2421-1-ND	.15	.13	.11	490-2421-2-ND	10,000	52.59/M	NCP15XW152J03RC
2.2K	3950 ± 3%	±5%	0.67	100	1	490-2423-1-ND	.15	.13	.11	490-2423-2-ND	10,000	52.59/M	NCP15XW222J03RC
3.3K	3950 ± 3%	±5%	0.55	100	1	490-2425-1-ND	.15	.13	.11	490-2425-2-ND	10,000	52.59/M	NCP15XW332J03RC
4.7K	3500 ± 3%	±5%	0.46	100	1	490-2417-1-ND	.13	.12	.09	490-2417-2-ND	10,000	46.46/M	NCP15XM472J03RC
6.8K	3950 ± 3%	±5%	0.38	100	1	490-2426-1-ND	.15	.13	.11	490-2426-2-ND	10,000	52.59/M	NCP15XW682J03RC
10K	3380 ± 3%	±5%	0.31	100	1	490-2414-1-ND	.13	.12	.09	490-2414-2-ND	10,000	46.46/M	NCP15XH103J03RC
15K	3950 ± 3%	±5%	0.25	100	1	490-2422-1-ND	.15	.13	.11	490-2422-2-ND	10,000	52.59/M	NCP15XW153J03RC
22K	3950 ± 3%	±5%	0.21	100	1	490-2424-1-ND	.15	.13	.11	490-2424-2-ND	10,000	52.59/M	NCP15XW223J03RC
33K	4050 ± 3%	±5%	0.17	100	1	490-2401-1-ND	.15	.13	.11	490-2401-2-ND	10,000	52.59/M	NCP15WB333J03RC
47K	4050 ± 3%	±5%	0.14	100	1	490-2402-1-ND	.13	.12	.09	490-2402-2-ND	10,000	46.46/M	NCP15WB473J03RC
68K	4150 ± 3%	±5%	0.12	100	1	490-2403-1-ND	.15	.13	.11	490-2403-2-ND	10,000	52.59/M	NCP15WD683J03RC
100K	4250 ± 3%	±5%	0.10	100	1	490-2404-1-ND	.13	.12	.09	490-2404-2-ND	10,000	46.46/M	NCP15WF104J03RC
150K	4500 ± 3%	±5%	0.08	100	1	490-2405-1-ND	.15	.13	.11	490-2405-2-ND	10,000	52.59/M	NCP15WM154J03RC
220K	4500 ± 3%	±5%	0.06	100	1	490-2406-1-ND	.15	.13	.11	490-2406-2-ND	10,000	52.59/M	NCP15WM224J03RC
470K	4500 ± 3%	±5%	0.04	100	1	490-2407-1-ND	.15	.13	.11	490-2407-2-ND	10,000	52.59/M	NCP15WM474J03RC
0603 Series													
100	3250 ± 3%	±5%	3.10	100	1	490-2434-1-ND	.16	.15	.12	490-2434-2-ND	4,000	61.80/M	NCP18XF101J03RB
150	3250 ± 3%	±5%	2.50	100	1	490-2435-1-ND	.16	.15	.12	490-2435-2-ND	4,000	61.80/M	NCP18XF151J03RB
220	3500 ± 3%	±5%	2.10	100	1	490-2437-1-ND	.16	.15	.12	490-2437-2-ND	4,000	61.80/M	NCP18XM221J03RB
330	3500 ± 3%	±5%	1.70	100	1	490-2438-1-ND	.16	.15	.12	490-2438-2-ND	4,000	61.80/M	NCP18XM331J03RB
470	3650 ± 3%	±5%	1.40	100	1	490-2441-1-ND	.16	.15	.12	490-2441-2-ND	4,000	61.80/M	NCP18XQ471J03RB
680	3650 ± 3%	±5%	1.2	100	1	490-2442-1-ND	.16	.15	.12	490-2442-2-ND	4,000	61.80/M	NCP18XQ681J03RB
1.0K	3650 ± 3%	±5%	1.00	100	1	490-2440-1-ND	.16	.15	.12	490-2440-2-ND	4,000	61.80/M	NCP18XQ102J03RB
1.5K	3950 ± 3%	±5%	0.81	100	1	490-2443-1-ND	.16	.15	.12	490-2443-2-ND	4,000	61.80/M	NCP18XW152J03RB
2.2K	3950 ± 3%	±5%	0.67	100	1	490-2445-1-ND	.16	.15	.12	490-2445-2-ND	4,000	61.80/M	NCP18XW222J03RB
3.3K	3950 ± 3%	±5%	0.55	100	1	490-2447-1-ND	.16	.15	.12	490-2447-2-ND	4,000	61.80/M	NCP18XW332J03RB
4.7K	3500 ± 3%	±5%	0.46	100	1	490-2439-1-ND	.15	.13	.11	490-2439-2-ND	4,000	55.20/M	NCP18XM472J03RB
6.8K	3950 ± 3%	±5%	0.38	100	1	490-2448-1-ND	.16	.15	.12	490-2448-2-ND	4,000	61.80/M	NCP18XW682J03RB
10K	3380 ± 3%	±5%	0.31	100	1	490-2436-1-ND	.15	.13	.11	490-2436-2-ND	4,000	55.20/M	NCP18XH103J03RB
15K	3950 ± 3%	±5%	0.25	100	1	490-2444-1-ND	.16	.15	.12	490-2444-2-ND	4,000	61.80/M	NCP18XW153J03RB
22K	3950 ± 3%	±5%	0.21	100	1	490-2446-1-ND	.16	.15	.12	490-2446-2-ND	4,000	61.80/M	NCP18XW223J03RB
33K	4050 ± 3%	±5%	0.17	100	1	490-2427-1-ND	.16	.15	.12	490-2427-2-ND	4,000	61.80/M	NCP18WB333J03RB
47K	4050 ± 3%	±5%	0.14	100	1	490-2428-1-ND	.15	.13	.11	490-2428-2-ND	4,000	55.20/M	NCP18WB473J03RB
68K	4150 ± 3%	±5%	0.12	100	1	490-2429-1-ND	.16	.15	.12	490-2429-2-ND	4,000	61.80/M	NCP18WD683J03RB
100K	4250 ± 3%	±5%	0.10	100	1	490-2430-1-ND	.15	.13	.11	490-2430-2-ND	4,000	55.20/M	NCP18WF104J03RB
150K	4500 ± 3%	±5%	0.08	100	1	490-2431-1-ND	.16	.15	.12	490-2431-2-ND	4,000	61.80/M	NCP18WM154J03RB
220K	4500 ± 3%	±5%	0.06	100	1	490-2432-1-ND	.16	.15	.12	490-2432-2-ND	4,000	61.80/M	NCP18WM224J03RB
470K	4500 ± 3%	±5%	0.04	100	1	490-2433-1-ND	.16	.15	.12	490-2433-2-ND	4,000	61.80/M	NCP18WM474J03RB
0805 Series													
220	3500 ± 3%	±5%	3.00	200	2	490-2452-1-ND	.21	.19	.15	490-2452-2-ND	4,000	78.75/M	NCP21XM221J03RA
470	3650 ± 3%	±5%	2.00	200	2	490-2455-1-ND	.21	.19	.15	490-2455-2-ND	4,000	78.75/M	NCP21XQ471J03RA
1.0K	3650 ± 3%	±5%	1.40	200	2	490-2454-1-ND	.21	.19	.15	490-2454-2-ND	4,000	78.75/M	NCP21XQ102J03RA
2.2K	3950 ± 3%	±5%	0.90	200	2	490-2458-1-ND	.21	.19	.15	490-2458-2-ND	4,000	78.75/M	NCP21XW222J03RA
4.7K	3500 ± 3%	±5%	0.65	200	2	490-2453-1-ND	.21	.19	.15	490-2453-2-ND	4,000	78.75/M	NCP21XM472J03RA
10K	3900 ± 3%	±5%	0.44	200	2	490-2456-1-ND	.21	.19	.15	490-2456-2-ND	4,000	78.75/M	NCP21XV103J03RA
15K	3950 ± 3%	±5%	0.36	200	2	490-2457-1-ND	.21	.19	.15	490-2457-2-ND	4,000	78.75/M	NCP21XW153J03RA
22K	3950 ± 3%	±5%	0.30	200	2	490-2459-1-ND	.21	.19	.15	490-2459-2-ND	4,000	78.75/M	NCP21XW223J03RA
33K	4050 ± 3%	±5%	0.24	200	2	490-2449-1-ND	.21	.19	.15	490-2449-2-ND	4,000	78.75/M	NCP21WB333J03RA
47K	4050 ± 3%	±5%	0.20	200	2	490-2450-1-ND	.21	.19	.15	490-2450-2-ND	4,000	78.75/M	NCP21WB473J03RA
100K	4250 ± 3%	±5%	0.14	200	2	490-2451-1-ND	.21	.19	.15	490-2451-2-ND	4,000	78.75/M	NCP21WF104J03RA

NEW! U.S.SENSOR Thermistors

Precision Thermister

U.S. Sensor's standard precision interchangeable thermistors are low cost, highly accurate, stable devices designed specifically for temperature sensing and control applications. They are particularly suited for uses where their precision interchangeability eliminates the necessity for costly individual circuit calibration.

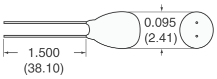

Res. @ 25°C Ω	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
	Bare Leads (±0.1°C from 0°C~70°C)					
2252	615-1000-ND	11.13	8.85	7.84	6.95	PS222J2
3000	615-1001-ND	11.13	8.85	7.84	6.95	PS302J2
5000	615-1002-ND	11.13	8.85	7.84	6.95	PS502J2
10000	615-1003-ND	11.13	8.85	7.84	6.95	PS103J2
30000	615-1004-ND	11.13	8.85	7.84	6.95	PS303J2
50000	615-1005-ND	11.13	8.85	7.84	6.95	PS503J2
100000	615-1006-ND	11.13	8.85	7.84	6.95	PS104J2
	Bare Leads (±0.2°C from 0°C~70°C)					
2252	615-1007-ND	7.95	6.32	5.60	4.95	PT222J2
3000	615-1008-ND	7.95	6.32	5.60	4.95	PT302J2
5000	615-1009-ND	7.95	6.32	5.60	4.95	PT502J2
10000	615-1010-ND	7.95	6.32	5.60	4.95	PT103J2
30000	615-1011-ND	7.95	6.32	5.60	4.95	PT303J2
50000	615-1012-ND	7.95	6.32	5.60	4.95	PT503J2
100000	615-1013-ND	7.95	6.32	5.60	4.95	PT104J2

Surface Mount NTC Thermistors

"MELF" style glass encapsulated surface mount

Specifications:
- **Thermal time constant**: 8 seconds max
- **Dissipation constant**: 2mW/°C
- **Maximum operating temperature**: 220°C

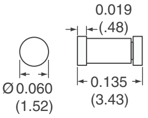

Res. @ 25°C Ω	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
10000	615-1034-ND	12.33	4.92	2.96	1.48	SM103J1K
50000	615-1035-ND	12.33	4.92	2.96	1.48	SM503J1K
100000	615-1036-ND	12.33	4.92	2.96	1.48	SM104J1K

Platinum RTDs

Specifications:
- **Thermal time constant**: 15 seconds max. (moving air)
- **Dissipation constant**: 2mW/°C (moving air)
- **Maximum applied current**: 1 mA

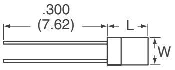

Res. @ 0°C Ω	Dimensions Inch(mm) W	L	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
100	0.067 (1.70)	0.095 (2.41)	615-1037-ND	18.50	13.69	11.10	4.63	PPG101A1
100	0.067 (1.70)	0.095 (2.41)	615-1038-ND	15.35	11.36	9.21	3.84	PPG101B1
100	0.067 (1.70)	0.095 (2.41)	615-1039-ND	13.82	10.23	8.29	3.47	PPG101C1
500	0.079 (2.01)	0.118 (3.00)	615-1040-ND	18.50	13.69	11.10	4.63	PPG501A1
500	0.079 (2.01)	0.118 (3.00)	615-1041-ND	15.35	11.36	9.21	3.84	PPG501B1
500	0.079 (2.01)	0.118 (3.00)	615-1042-ND	13.82	10.23	8.29	3.46	PPG501C1
1000	0.079 (2.01)	0.118 (3.00)	615-1043-ND	18.50	13.69	11.10	4.63	PPG102A1
1000	0.079 (2.01)	0.118 (3.00)	615-1044-ND	15.35	11.36	9.21	3.84	PPG102B1
1000	0.079 (2.01)	0.118 (3.00)	615-1045-ND	13.82	10.23	8.29	3.46	PPG102C1

Glass Encapsulated Thermistors

Specifications:
- **Thermal time constant**: 5 seconds (still air)
  0.5 seconds (stirred liquid)
- **Dissipation constant**: 2mW/°C (sill air)

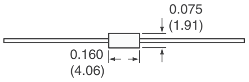

Res. @ 25°C Ω	Tolerance @25°C	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No
		Standard					
2500	±5%	615-1014-ND	3.85	3.31	2.90	2.28	252FG1J
5000	±5%	615-1015-ND	3.85	3.31	2.90	2.28	502FG1J
10000	±5%	615-1016-ND	.80	.73	.68	.62	103JG1J
20000	±5%	615-1017-ND	.80	.73	.68	.62	203JG1J
30000	±5%	615-1018-ND	.80	.73	.68	.62	303JG1J
50000	±5%	615-1019-ND	.80	.73	.68	.62	503JG1J
100000	±5%	615-1020-ND	.80	.73	.68	.62	104JG1J
250000	±5%	615-1021-ND	.80	.73	.68	.62	254JG1J
500000	±5%	615-1022-ND	2.25	2.00	1.75	1.42	504RG1J
1000000	±5%	615-1023-ND	2.25	2.00	1.75	1.42	105RG1J
10000	±1%	615-1024-ND	10.45	4.18	2.50	1.25	103JG1F
20000	±1%	615-1025-ND	10.45	4.18	2.50	1.25	203JG1F
30000	±1%	615-1026-ND	10.45	4.18	2.50	1.25	303JG1F
50000	±1%	615-1027-ND	10.45	4.18	2.50	1.25	503JG1F
100000	±1%	615-1028-ND	10.45	4.18	2.50	1.25	104JG1F
		Interchangeable					
10000	±0.5%	615-1029-ND	15.30	6.12	3.67	1.84	103JL1A
20000	±0.5%	615-1030-ND	16.07	6.42	3.86	1.93	203JL1A
25000	±0.5%	615-1031-ND	19.89	7.96	4.77	2.39	253JL1A
50000	±0.5%	615-1032-ND	19.89	7.96	4.77	2.39	503JL1A
100000	±0.5%	615-1033-ND	19.89	6.12	3.67	1.84	104JL1A

Power Thermistors

U.S. Sensor's inrush current limiting power thermistors are specially formulated and processed NTC thermistors suitable for suppressing high inrush currents in switching power supplies and other applications where the high initial starting currents are undesirable.

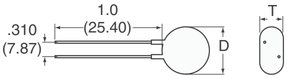

Res. @ 25°C Ω	Dimensions Inch (mm) D	T	Digi-Key Part No.	Price Each 1	10	25	100	U.S. Sensor Part No.
1.0	0.900 (22.86)	0.300 (7.62)	615-1046-ND	10.78	6.34	3.70	2.25	ST1R020B
1.0	1.250 (31.75)	0.250 (6.35)	615-1047-ND	17.14	10.08	5.88	3.58	ST1R030B
2.0	0.900 (22.86)	0.350 (8.89)	615-1048-ND	5.71	3.36	1.96	1.19	ST2R018B
2.5	0.900(22.86)	0.300 (7.62)	615-1049-ND	5.71	3.36	1.96	1.19	ST2R515B
5.0	0.600(15.24)	0.250 (6.35)	615-1053-ND	2.70	2.43	2.03	1.77	ST5R007B
10.0	0.450 (11.43)	0.300 (7.62)	615-1051-ND	2.25	2.09	1.70	1.53	ST10003B
10.0	0.600 (15.24)	0.350(8.89)	615-1052-ND	2.25	2.09	1.70	1.53	ST10006B
10.0	1.250 (31.75)	0.300 (7.62)	615-1050-ND	13.37	7.86	4.59	2.79	ST10010B

BC COMPONENTS

Surface Mount NTC Chip Thermistors

(0603 and 0805 Size)

Size 0603 and 0805 chip thermistors have a negative temperature coefficient and nickel barrier contacts. The device has no marking.

Applications:
- Temperature compensation, sensing and protection in: battery chargers, consumer equipment, and office equipment

Features:
- High accuracy over wide ranges of operating temperature (-40°C ~ 150°C)
- Suitable for wave or reflow soldering
- High sensitivity
- Taped on reel

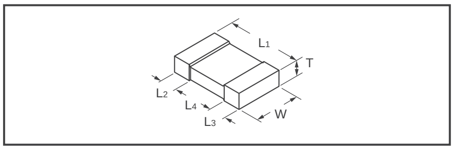

Size Code	Dimensions (mm) L1	W	T	L2 and L3	L4 Min.
0603	1.6 ±0.15	0.8 ±0.15	0.8±0.15	0.2	0.4
0805	2.0 ±0.2	1.25 ±0.2	0.8±0.15	0.2	0.55

Size Code	Resistance @ 25°C	Tolerance @ 25°C	B Value/ B Tolerance @ B25/85	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape and Reel Pricing† 4,000	BC Components Part No.
0603	4.7kΩ	±3%	3830K±1%	BC1543CT-ND*	.57	.50	.40	213.00/M	2322 615 36472
	10kΩ	±3%	3610K±1%	BC1544CT-ND*	.57	.50	.40	—	2322 615 36103
	10kΩ	±3%	3610K±1%	BC2290CT-ND*◊	.57	.50	.40	213.00/M	2381 615 36103
	68kΩ	±3%	3985K±1%	BC1547CT-ND*	.62	.55	.43	232.20/M	2322 615 36683
	100kΩ	±3%	4100K±1%	BC1548CT-ND*	.57	.50	.40	—	2322 615 36104
	100kΩ	±3%	4100K±1%	BC2291CT-ND*◊	.57	.50	.40	213.00/M	2381 615 36104
	4.7kΩ	±5%	3830K±1%	BC1538CT-ND*	.44	.39	.31	165.00/M	2322 615 33472
	10kΩ	±5%	3610K±1%	BC1539CT-ND*	.44	.39	.31	165.00/M	2322 615 33103
	10kΩ	±5%	3610K±1%	BC2289CT-ND*◊	.44	.39	.31	165.00/M	2381 615 33103
	15kΩ	±5%	3600K±1%	BC1540CT-ND*	.59	.52	.41	220.50/M	2322 615 33153
	47kΩ	±5%	3960K±1%	BC1541CT-ND*	.59	.52	.41	—	2322 615 33473
	100kΩ	±5%	4100K±1%	BC1542CT-ND*	.59	.52	.41	220.50/M	2322 615 33104
0805	2.2kΩ	±5%	3600K±1%	BC1514CT-ND	.41	.36	.29	153.00/M	2322 615 53222
	2.2kΩ	±5%	3600K±1%	BC2294CT-ND◊	.41	.36	.29	153.00/M	2381 615 53222
	4.7kΩ	±5%	3500K±1%	BC1516CT-ND	.41	.36	.29	—	2322 615 53472
	4.7kΩ	±5%	3500K±1%	BC2296CT-ND◊	.41	.36	.29	153.00/M	2381 615 53472
	10kΩ	±5%	3570K±3%	BC1518CT-ND	.41	.36	.29	—	2322 615 53103
	10kΩ	±5%	3570K±3%	BC2292CT-ND◊	.41	.36	.29	153.00/M	2381 615 53103
	15kΩ	±5%	3700K±1%	BC1519CT-ND	.41	.36	.29	153.00/M	2322 615 53153
	15kΩ	±5%	3700K±1%	BC2293CT-ND◊	.41	.36	.29	153.00/M	2381 615 53153
	22kΩ	±5%	3800K±1%	BC1520CT-ND	.41	.36	.29	153.00/M	2322 615 53223
	22kΩ	±5%	3800K±1%	BC2295CT-ND◊	.41	.36	.29	153.00/M	2381 615 53223
	33kΩ	±5%	3920K±1%	BC1521CT-ND	.41	.36	.29	—	2322 615 53333
	47kΩ	±5%	3960K±1%	BC1522CT-ND	.41	.36	.29	—	2322 615 53473
	47kΩ	±5%	3960K±1%	BC2297CT-ND◊	.41	.36	.29	153.00/M	2381 615 53473

* 0603 Size Code A have NiSn terminations. † For Tape and Reel part number, change CT-ND to TR-ND. ◊ ***RoHS Compliant***

Surface Mount NTC Thermistors - SOD80 High Temperature Sensors

These thermistors have a negative temperature coefficient and are mounted in a glass envelope, without leads and suitable for surface mounting. **Features:** • Small Diameter • Quick response to temperature change • High stability over a long life • Wide temperature range from -40°C ~ 300°C • Resistant to corrosive atmospheres and harsh environments **Applications:** • High temperature measurement control: Domestic appliances, automotive systems, and industrial process control.

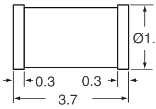

Resistance @ 25°C (Ω)	B Value/B Tolerance @ B25/85	Tolerance @ 25°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	BC Components Part No.
30k	3977K ±1.3%	±5%	BC1551CT-ND	.98	.86	.68	2322 633 53303
100k	3977K ± 1.3%	±5%	BC1552CT-ND	.98	.86	.68	2322 633 53104

Leaded NTC Thermistors

Accuracy Line

These thermistors have a negative temperature coefficient.

Fig. 1 – The device consists of a chip with two tinned Ni-leads, and is color coded.

Fig. 2 – The device consists of a chip with two tinned solid copper-plated leads. It is gray lacquered and color coded, but not insulated.

Applications: Temperature sensing and control.

Fig.	Dimensions (mm) B Max.	d	H1 Max.	H2 Max.	L	M	P	T Max.
1	3.4	0.4	2.0±1.0	—	—	40.0 ±1.5	2.54	3.0
2	3.3 ±0.5	0.6 ±0.06	2.0 ±1.0	6.0	24.0 ±1.5	—	2.54	3.0

Fig. 1

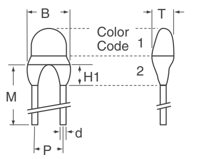

Fig. 2

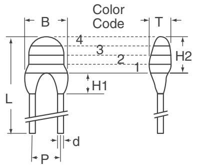

Fig.	Resistance @ 25°C	Tolerance @ 25°C	B Value/ B Tolerance @ B25/85	Color Code 1	2	3	4	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
1	10kΩ	±1%	3977K±0.75%	Blue	Blue	—	—	BC2299-ND◊	1.81	1.63	1.29	2381 640 55103
	100kΩ	±1%	4190K±1.5%	Brown	Brown	—	—	BC2300-ND◊	1.91	1.72	1.36	2381 640 55104
	10kΩ	±2%	3977K±0.75%	Blue	Blue	—	—	BC2298-ND◊	1.11	1.00	.79	2381 640 54103
2	2.7kΩ	±3%	3977K±0.75%	Red	Violet	Red	Orange	BC2312-ND◊	.85	.77	.61	2381 640 66272
	4.7kΩ	±3%	3977K±0.75%	Yellow	Violet	Red	Orange	BC1481-ND	.68	.62	.49	2322 640 66472
	4.7kΩ	±3%	3977K±0.75%	Yellow	Violet	Red	Orange	BC2313-ND◊	.85	.77	.61	2381 640 66472
	10kΩ	±3%	3977K±0.75%	Brown	Black	Orange	Orange	BC2311-ND◊	.85	.77	.61	2381 640 66103
	47kΩ	±3%	4090K±1.5%	Yellow	Violet	Orange	Orange	BC2314-ND◊	.85	.77	.61	2381 640 66473
	100kΩ	±3%	4190K±1.5%	Brown	Black	Yellow	Orange	BC1484-ND	.68	.62	.49	2322 640 66104
	470kΩ	±3%	4570K±1.5%	Yellow	Violet	Yellow	Orange	BC1485-ND	.69	.62	.49	2322 640 66474
	2.2kΩ	±5%	3977K±0.75%	Red	Red	Red	Gold	BC1466-ND	.57	.52	.41	2322 640 63222
	2.2kΩ	±5%	3977K±0.75%	Red	Red	Red	Gold	BC2304-ND◊	.71	.64	.51	2381 640 63222
	3.3kΩ	±5%	3977K±0.75%	Orange	Orange	Red	Gold	BC2307-ND◊	.71	.64	.51	2381 640 63332
	6.8kΩ	±5%	3977K±0.75%	Blue	Gray	Red	Gold	BC2310-ND◊	.71	.64	.51	2381 640 63682
	10kΩ	±5%	3977K±0.75%	Brown	Black	Orange	Gold	BC1470-ND	.57	.52	.41	2322 640 63103
	10kΩ	±5%	3977K±0.75%	Brown	Black	Orange	Gold	BC2301-ND◊	.57	.52	.41	2381 640 63103
	15kΩ	±5%	3740K±2%	Brown	Green	Orange	Gold	BC1471-ND	.57	.52	.41	2322 640 63153
	15kΩ	±5%	3740K±2%	Brown	Green	Orange	Gold	BC2303-ND◊	.57	.52	.41	2381 640 63153
	22kΩ	±5%	3740K±2%	Red	Red	Orange	Gold	BC2305-ND◊	.71	.64	.51	2381 640 63223
	33kΩ	±5%	4090K±1.5%	Orange	Orange	Orange	Gold	BC2308-ND◊	.71	.64	.51	2381 640 63333
	47kΩ	±5%	4090K±1.5%	Yellow	Violet	Orange	Gold	BC2309-ND◊	.71	.64	.51	2381 640 63473
	100kΩ	±5%	4190K±1.5%	Brown	Black	Yellow	Gold	BC2302-ND◊	.71	.64	.51	2381 640 63104
	220kΩ	±5%	4370K±2.5%	Red	Red	Yellow	Gold	BC1478-ND	.57	.52	.41	2322 640 63224
	220kΩ	±5%	4370K±2.5%	Red	Red	Yellow	Gold	BC2306-ND◊	.71	.64	.51	2381 640 63224

◊ ***RoHS Compliant***

TDK *NEW!* Surface Mount NTC Thermistors

NTC (Negative Temperature Coefficient) Thermistors are manufactured from sintered metal oxides. TDK thermistors have low thermal time constraints, which result in extremely high rates of resistance change to accurately track the temperature.

Features: • Layered internal electrode structure • Good stability of resistance value after soldering

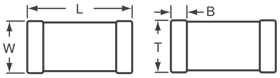

Size Code	Dimensions (mm) L	W	T	B
0402	1.0 ±0.05	0.5 ±0.05	0.5 ±0.05	0.1 Min.
0603	1.6 ±0.1	0.8 ±0.1	0.8 ±0.1	0.2 Min.

Size Code	Nominal Resistance @ B25°/85° (Ω)	B Constant 25°/85°C	25°/50°C	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	BC Components Part No.
0402	10K	3435K ±1%	3380K ±1%	445-2550-1-ND	.31	.28	.22	445-2550-2-ND	10,000	101.00/M	NTCG103JF103F
	10K	4100K ±3%	4067K ±3%	445-2551-1-ND	.26	.23	.18	445-2551-2-ND	10,000	84.00/M	NTCG104BH103H
	100K	4500K ±1%	4498K ±1%	445-2552-1-ND	.31	.28	.22	445-2552-2-ND	10.000	101.00/M	NTCG104KF104F
	100K	4550K ±3%	4485K ±3%	445-2553-1-ND	.26	.23	.18	445-2553-2-ND	10,000	84.00/M	NTCG104LH104H
0603	10K	3435K ±1%	3380K ±1%	445-2554-1-ND	.35	.31	.25	445-2554-2-ND	4,000	132.00/M	NTCG163JF103F
	10K	4100K ±3%	4067K ±3%	445-2555-1-ND	.29	.26	.21	445-2555-2-ND	4,000	110.00/M	NTCG164BH103H
	100K	4500K ±1%	4498K ±1%	445-2556-1-ND	.35	.31	.25	445-2556-2-ND	4,000	132.00/M	NTCG164KF104F
	100K	4550K ±3%	4485K ±3%	445-2557-1-ND	.29	.26	.21	445-2557-2-ND	4,000	110.00/M	NTCG164LH104H

Panasonic®

Multilayer Chip NTC Thermistors (ERTJ)

The Multilayer Chip NTC Thermistors are especially designed for surface mountings featuring the miniature sizes of “0201”, “0402” and “0603” type (EIA) with highly reliable multilayer and monolithic structure.

FEATURES:

- Highly reliable multilayer/monolithic structure
- Superior heat resistance to reflow soldering and excellent solderability thanks to the unique external electrodes of three metallic layers
- Operating Temperature Range: -40°C ~ 125°C
- Resistance to Soldering Heat: 270°C-3s, 260°C-10s
- Heat Dissipation Constant (mounted on a glass epoxy,1.6t): **0201 Series:** approximately 1mw/°C, **0402 Series:** approximately 2mw/°C and **0603 Series:** approximately 3mw/°C
- Rated Maximum Power Dissipation: **0201 Series:** 33 mW, **0402 Series:** 66 mW and **0603 Series:** 100 mW

SMT

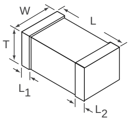

Size Code (EIA)	Dimensions (mm) L	W	T	L1 L2
0201	0.60	0.30	0.30	0.15
0402	1.00	0.50	0.50	0.25
0603	1.60	0.80	0.80	0.30

Zero-Power Resist. (at 25°C)	Resistance Tol.	B Value B25/50	B25/85	Digi-Key Part No.	Cut Tape Price Each 1	10	100	500	Tape & Reel* Size	Pricing	Panasonic Part No.
0201											
2kΩ	±5%	4500K±2%	(4450K)	P12020CT-ND	.31	.24	.18	.13	15,000	98.00/M	ERT-JZET202J
3kΩ	±5%	4500K±2%	(4450K)	P12021CT-ND	.31	.24	.18	.13	15,000	98.00/M	ERT-JZET302J
4.7kΩ	±5%	4500K±2%	—	P12805CT-ND	.13	.10	.08	.06	15,000	41.00/M	ERT-JZET472J
10KΩ	±5%	—	3435K±2%	P12358CT-ND	.12	.11	.09	.07	15,000	41.00/M	ERT-JZEG103JA
47KΩ	±5%	4050K±3%	—	P12359CT-ND	.12	.11	.09	.07	15,000	41.00/M	ERT-JZEP473J
100KΩ	±5%	4700K±2%	—	P12360CT-ND	.12	.11	.09	.07	15,000	41.00/M	ERT-JZEV104J
0402											
22Ω	±5%	2750K±3%	(2700K)	P10557CT-ND	.25	.22	.17	.14	10,000	83.00/M	ERT-J0EA220J
33Ω	±5%	2750K±3%	(2700K)	P10558CT-ND	.25	.22	.17	.14	10,000	83.00/M	ERT-J0EA330J
40Ω	±5%	2750K±3%	(2700K)	P10559CT-ND	.25	.22	.17	.14	10,000	83.00/M	ERT-J0EA400J
47Ω	±5%	2750K±3%	(2700K)	P10560CT-ND	.25	.22	.17	.14	10,000	83.00/M	ERT-J0EA470J
68Ω	±5%	2800K±3%	(2700K)	P10561CT-ND	.25	.22	.17	.14	10,000	83.00/M	ERT-J0EA680J
100Ω	±5%	2800K±3%	(2750K)	P10562CT-ND	.25	.22	.17	.14	10,000	83.00/M	ERT-J0EA101J
150Ω	±5%	2800K±3%	(2750K)	P10563CT-ND	.25	.22	.17	.14	10,000	83.00/M	ERT-J0EA151J
1kΩ	±5%	4500K±3%	(4450K)	P10564CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ET102J
1.5kΩ	±5%	4500K±3%	(4450K)	P10565CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ET152J
2.0kΩ	±5%	4500K±3%	(4450K)	P10566CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ET202J
2.2kΩ	±5%	4500K±3%	(4450K)	P10567CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ET222J
3.0kΩ	±5%	4500K±3%	(4450K)	P10568CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ET302J
3.3kΩ	±5%	4500K±3%	(4450K)	P10569CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ET332J
4.7kΩ	±5%	4500K±3%	(4450K)	P10570CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ET472J
3.3kΩ	±5%	4250K±3%	(4300K)	P10571CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ER332J
4.7kΩ	±5%	4250K±3%	(4300K)	P10572CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ER472J
6.8kΩ	±5%	4250K±3%	(4300K)	P10573CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ER682J
10kΩ	±5%	4250K±3%	(4300K)	P10574CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ER103J
10kΩ	±1%	(3375K)	3435K±1%	P12007CT-ND	.56	.42	.30	.22	10,000	147.00/M	ERT-J0EG103FA
10kΩ	±2%	(3375K)	3435K±1%	P12008CT-ND	.52	.39	.28	.20	10,000	136.00/M	ERT-J0EG103GA
10kΩ	±3%	(3375K)	3435K±1%	P12009CT-ND	.47	.35	.25	.18	10,000	125.00/M	ERT-J0EG103HA
10kΩ	±5%	(3375K)	3435K±1%	P12010CT-ND	.29	.22	.16	.12	10,000	77.00/M	ERT-J0EG103JA
10kΩ	±5%	3900K±2%	—	P12985CT-ND	.13	.12	.09	.08	10,000	43.00/M	ERT-J0EM103J
15kΩ	±5%	4250K±3%	(4300K)	P10575CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ER153J
22kΩ	±5%	4250K±3%	(4300K)	P10576CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ER223J
33kΩ	±5%	4250K±3%	(4300K)	P10577CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0ER333J
47kΩ	±5%	4700K±3%	(4750K)	P10578CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0EV473J
68kΩ	±5%	4700K±3%	(4750K)	P10579CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0EV683J
47kΩ	±5%	4050K±2%	(4100K)	P11441CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0EP473J
100kΩ	±5%	4700K±2%	(4750K)	P11442CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0EV104J
100kΩ	±5%	4500K±2%	—	P12986CT-ND	.20	.18	.14	.12	10,000	68.00/M	ERT-J0ET104J
150kΩ	±5%	4700K±2%	(4750K)	P11443CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0EV154J
220kΩ	±5%	4700K±2%	(4750K)	P11444CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0EV224J
330kΩ	±5%	4700K±2%	(4750K)	P11445CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0EV334J
470kΩ	±5%	4700K±2%	(4750K)	P11446CT-ND	.21	.19	.15	.12	10,000	71.00/M	ERT-J0EV474J
0603											
22Ω	±5%	2750K±3%	(2700K)	P10531CT-ND	.31	.28	.22	.18	4,000	117.00/M	ERT-J1VA220J
33Ω	±5%	2750K±3%	(2700K)	P10532CT-ND	.31	.28	.22	.18	4,000	117.00/M	ERT-J1VA330J
40Ω	±5%	2800K±3%	(2750K)	P10533CT-ND	.31	.28	.22	.18	4,000	117.00/M	ERT-J1VA400J
47Ω	±5%	2800K±3%	(2750K)	P10534CT-ND	.31	.28	.22	.18	4,000	117.00/M	ERT-J1VA470J
68Ω	±5%	2800K±3%	(2750K)	P10535CT-ND	.31	.28	.22	.18	4,000	117.00/M	ERT-J1VA680J
100Ω	±5%	2800K±3%	(2750K)	P10536CT-ND	.37	.33	.26	.21	4,000	140.00/M	ERT-J1VA101J
1kΩ	±5%	4500K±3%	(4450K)	P10537CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VT102J
1.5kΩ	±5%	4500K±3%	(4450K)	P10538CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VT152J
2.0kΩ	±5%	4500K±3%	(4450K)	P10539CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VT202J
2.2kΩ	±5%	4500K±3%	(4450K)	P10540CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VT222J
3.0kΩ	±5%	4500K±3%	(4450K)	P10541CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VT302J
3.3kΩ	±5%	4500K±3%	(4450K)	P10542CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VT332J
4.7kΩ	±5%	4500K±3%	(4450K)	P10543CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VT472J
3.3kΩ	±5%	4250K±3%	(4300K)	P10544CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VR332J
4.7kΩ	±5%	4250K±3%	(4300K)	P10545CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VR472J
6.8kΩ	±5%	4250K±3%	(4300K)	P10546CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VR682J
10kΩ	±5%	4250K±3%	(4300K)	P10547CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VR103J
10kΩ	±1%	(3375K)	3435K±1%	P12011CT-ND	.50	.37	.27	.19	4,000	137.00/M	ERT-J1VG103FA
10kΩ	±2%	(3375K)	3435K±1%	P12012CT-ND	.46	.35	.25	.18	4,000	127.00/M	ERT-J1VG103GA
10kΩ	±3%	(3375K)	3435K±1%	P12013CT-ND	.42	.32	.23	.17	4,000	116.00/M	ERT-J1VG103HA
10kΩ	±5%	(3375K)	3435K±1%	P12014CT-ND	.28	.21	.15	.11	4,000	76.00/M	ERT-J1VG103JA
15kΩ	±5%	4250K±3%	(4300K)	P10548CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VR153J
22kΩ	±5%	4250K±3%	(4300K)	P10549CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VR223J
33kΩ	±5%	4250K±3%	(4300K)	P10550CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VR333J
47kΩ	±5%	4250K±3%	(4300K)	P10551CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VR473J
47kΩ	±5%	4050K±2%	(4100K)	P12015CT-ND	.33	.24	.18	.13	4,000	89.00/M	ERT-J1VP473J
68kΩ	±5%	4250K±3%	(4300K)	P10552CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VR683J
47kΩ	±5%	4700K±3%	(4750K)	P10553CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VV473J
68kΩ	±5%	4700K±3%	(4750K)	P10554CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VV683J
100kΩ	±5%	4700K±3%	(4750K)	P10555CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VV104J
100kΩ	±1%	(4330K)	4390K±1%	P12016CT-ND	.58	.43	.31	.23	4,000	160.00/M	ERT-J1VS104FA
100kΩ	±2%	(4330K)	4390K±1%	P12017CT-ND	.54	.40	.29	.21	4,000	148.00/M	ERT-J1VS104GA
100kΩ	±3%	(4330K)	4390K±1%	P12018CT-ND	.49	.37	.26	.19	4,000	135.00/M	ERT-J1VS104HA
100kΩ	±5%	(4330K)	4390K±1%	P12019CT-ND	.33	.24	.18	.13	4,000	89.00/M	ERT-J1VS104JA
150kΩ	±5%	4700K±3%	(4750K)	P10556CT-ND	.27	.24	.19	.16	4,000	103.00/M	ERT-J1VV154J

* For Tape and Reel part number, change CT-ND to TR-ND.

Panasonic®

NTC Thermistors

1 and 2: Significant digit; 3: Multiplier

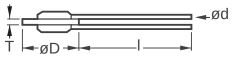

Uses standard resistance color codes.

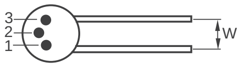

FEATURES:

- Resistance temperature coefficient is negative and extremely large
- Wide selection of temperature coefficient (constant B)
- Excellent electrical and thermal stability
- Color coded to indicate resistance value @ 25°C

SPECIFICATIONS:

Maximum Watt Rating: (W): PNT100-123 – 0.4; PNT124-138 – 0.6. Nominal Time Constant (second): PNT100-123 – 20; PNT124-138 – 27.

APPLICATIONS:

- For measuring equipment: thermometer, wind gauge, liquid level gauge, temperature controller
- For temperature compensation: transistor circuit, measuring equipment
- For driving: Delay setting in relay operation, inrush current surge protection, communication equipment, AGC, time lag

F Type Dimensions (mm)	øD	T	l	W	ød
PNT100 ~ PNT123 (D2)	5.0 ± 0.5	1.3 ± 0.5	30 min.	2.5 ± 1	0.4
PNT124 ~ PNT138 (D3)	7.5 ± 0.5	1.4 ± 0.5	30 min.	5 ± 1	0.5

Res. at 25°C (Ω)	Temp. Coef. (25°C) %/°C	Res. Ratio R_{25}/R_{50}	Digi-Key Part No.	Price Each 1	10	100	1,000	Panasonic Part No.
20	–3.4	2.18	PNT100-ND	1.06	.91	.61	.38	ERT-D2FEL200S
40	–3.9	2.48	PNT101-ND	1.06	.91	.61	.38	ERT-D2FFL400S
75	–4.2	2.62	PNT102-ND	1.06	.91	.61	.38	ERT-D2FGL750S
100	–3.9	2.48	PNT104-ND	1.06	.91	.61	.38	ERT-D2FFL101S
100	–4.2	2.62	PNT105-ND	1.06	.91	.61	.38	ERT-D2FGL101S
170	–4.2	2.62	PNT106-ND	1.06	.91	.61	.38	ERT-D2FGL171S
250	–3.9	2.48	PNT107-ND	1.06	.91	.61	.38	ERT-D2FFL251S
250	–4.2	2.62	PNT108-ND	1.06	.91	.61	.38	ERT-D2FGL251S
300	–4.2	2.62	PNT109-ND	1.06	.91	.61	.38	ERT-D2FGL301S
350	–3.9	2.48	PNT110-ND	1.06	.91	.61	.38	ERT-D2FFL351S
600	–4.5	2.83	PNT111-ND	1.06	.91	.61	.38	ERT-D2FGL601S
800	–4.4	2.76	PNT112-ND	1.06	.91	.61	.38	ERT-D2FGL801S
1,000	–4.1	2.55	PNT113-ND	1.06	.91	.61	.38	ERT-D2FGL102S
1,400	–4.4	2.76	PNT114-ND	1.06	.91	.61	.38	ERT-D2FGL142S
2,000	–4.5	2.83	PNT115-ND	1.06	.91	.61	.38	ERT-D2FGL202S
3,300	–4.5	2.83	PNT116-ND	1.06	.91	.61	.38	ERT-D2FGL332S
4,600	–4.6	2.90	PNT117-ND	1.06	.91	.61	.38	ERT-D2FHL462S
8,000	–4.6	2.90	PNT118-ND	1.06	.91	.61	.38	ERT-D2FHL802S
10,000	–4.6	2.90	PNT119-ND	1.06	.91	.61	.38	ERT-D2FHL103S
15,000	–4.7	2.98	PNT120-ND	1.06	.91	.61	.38	ERT-D2FHL153S
33,000	–5.1	3.22	PNT121-ND	1.06	.91	.61	.38	ERT-D2FHL333S
50,000	–5.1	3.48	PNT122-ND	1.06	.91	.61	.38	ERT-D2FHL503S
150,000	–5.4	3.48	PNT123-ND	1.02	.88	.59	.37	ERT-D2FIL154S
8	–3.4	2.18	PNT124-ND	1.63	1.40	.93	.59	ERT-D3FEL8R0S
13	–3.6	2.30	PNT125-ND	1.63	1.40	.93	.59	ERT-D3FFL130S
16	–3.6	2.30	PNT126-ND	1.63	1.40	.93	.59	ERT-D3FFL160S
20	–3.6	2.30	PNT127-ND	1.63	1.40	.93	.59	ERT-D3FFL200S
30	–3.7	2.30	PNT128-ND	1.63	1.40	.93	.59	ERT-D3FFL300S
40	–3.2	2.30	PNT130-ND	1.63	1.40	.93	.59	ERT-D3FFL400S
75	–4.2	2.62	PNT131-ND	1.63	1.40	.93	.59	ERT-D3FGL750S
80	–4.2	2.62	PNT132-ND	1.63	1.40	.93	.59	ERT-D3FGL800S
130	–4.5	2.62	PNT134-ND	1.63	1.40	.93	.59	ERT-D3FGL131S
500	–4.6	2.83	PNT135-ND	1.63	1.40	.93	.59	ERT-D3FGL501S
4,000	–4.6	2.90	PNT136-ND	1.63	1.40	.93	.59	ERT-D3FHL402S
20,000	–5.1	3.22	PNT137-ND	1.63	1.40	.93	.59	ERT-D3FHL203S
80,000	–5.6	3.70	PNT138-ND	1.63	1.40	.93	.59	ERT-D3FIL803S

GE Sensing

NTC Thermistors

NHQ Series SMT Chip 1206

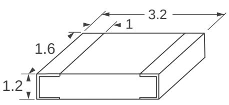

These devices are ceramic chip thermistors with a negative temperature coefficient of resistance intended for surface mount applications. The electrode material is palladium silver, nickel-plated with a solder-plated covering. The ceramic between the electrodes is glass covered.

Res. @ 25°C (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 3,000	GE Sensing Part No.
3K	235-1108-1-ND	2.64	2.31	1.82	990.00/M	NHQ302B410T10
10K	235-1109-1-ND	2.59	2.27	1.79	972.00/M	NHQ103B375T10
15K	235-1110-1-ND	2.64	2.31	1.82	990.00/M	NHQ153B400T10
50K	235-1111-1-ND	2.64	2.31	1.82	990.00/M	NHQ503B400T10
100K	235-1112-1-ND	2.64	2.31	1.82	990.00/M	NHQ104B425T10
150K	235-1113-1-ND	2.64	2.31	1.82	990.00/M	NHQ154B425T10
500K	235-1114-1-ND	2.64	2.31	1.82	990.00/M	NHQ504B435T10

*For Tape and Reel part number, change 1-ND to 2-ND.

NHQM Series SMT Chip 0805

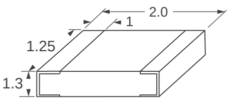

These devices are ceramic chip thermistors with a negative temperature coefficient of resistance intended for surface mount applications. The electrode material is palladium silver, nickel-plated with solder-plated covering. The ceramic between the electrodes is glass covered.

Res. @ 25°C (Ω)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Tape & Reel* Pricing 3,000	GE Sensing Part No.
3K	235-1115-1-ND	2.09	1.84	1.44	847.50/M	NHQM302B410T10
10K	235-1116-1-ND	2.09	1.84	1.44	847.50/M	NHQM103B375T10
15K	235-1117-1-ND	2.09	1.84	1.44	847.50/M	NHQM153B400T10
50K	235-1118-1-ND	2.09	1.84	1.44	847.50/M	NHQM503B415T10
100K	235-1119-1-ND	2.09	1.84	1.44	847.50/M	NHQM104B425T10

*For Tape and Reel part number, change 1-ND to 2-ND.

MC65 Series

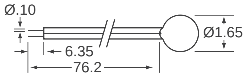

These thermistors are epoxy-coated for stability and have a maximum diameter of .065" (1.65mm). Standard leads are 3" (76.20mm) of 38 gauge, nickel alloy, bifilar, heavy isomid insulated wire. Each unit tracks a specified curve over the temp. range of 0°C ~ 50°C (see table).

Temperature Range	Tolerance Code (±°C) 235-1057-ND	235-1058-ND	235-1059-ND
0°C ~ 20°C	±.15	±.2	±.25
20°C ~ 35°C	±.1	±.15	±.2
35°C ~ 39°C	±.05	±.1	±.15
39°C ~ 42°C	±.075	±.15	±.2
42°C ~ 45°C	±.1	±.15	±.2
45°C ~ 50°C	±.15	±.2	±.25

Res. @ 25°C (Ω)	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
10K	235-1057-ND	9.12	7.19	5.70	MC65F103A
10K	235-1058-ND	6.50	5.12	4.07	MC65F103B
10K	235-1059-ND	6.86	5.41	4.29	MC65F103C

DK Series

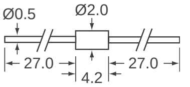

The DK range of DO-35 packaged NTC thermistors is designed for temperature measurement and control in applications which demand cost effective reliability. Typical applications include domestic appliances, automotive systems, data processing equipment and heating/ventilating/air conditioning control.

The hermetically-sealed construction combines the advantages of high temperature operation and high reliability of glass bead types with the closer tolerances associated with chip devices. The glass encapsulation offers the additional benefit of high voltage insulation.

Res. @ 25°C (Ω)	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
5K	235-1103-ND	4.31	3.71	2.55	DKA502N5
10K	235-1104-ND	4.81	4.14	2.85	DKF103N5
20K	235-1105-ND	4.81	4.14	2.85	DKF203N5
30K	235-1106-ND	4.81	4.14	2.85	DKF303N5
50K	235-1107-ND	4.81	4.14	2.85	DKF503N5

MA100 Series

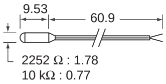

These biomedical thermistor chips and sub-assemblies are designed to be interchangeable over a 0°C ~ 50°C range (see table). Best overall stability is maintained when exposure and storage temperatures remain below 70°C.

Temperature Range	Tolerance Code (±°C) 235-1060/ 235-1064-ND	235-1061/ 235-1065-ND	235-1062/ 235-1063-ND
0°C ~ 20°C	±.15	±.2	±.25
20°C ~ 35°C	±.1	±.15	±.2
35°C ~ 39°C	±.05	±.1	±.15
39°C ~ 42°C	±.075	±.15	±.2
42°C ~ 45°C	±.1	±.15	±.2
45°C ~ 50°C	±.15	±.2	±.25

Res. @ 25°C Ω	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
10K	235-1060-ND	10.70	8.43	6.69	MA100GG103A
10K	235-1061-ND	7.68	6.05	4.80	MA100GG103B
10K	235-1062-ND	6.91	5.44	4.32	MA100GG103C
2252	235-1063-ND	6.91	5.44	4.32	MA100GG232C
10K	235-1064-ND	10.70	8.43	6.69	MA100BF103A
10K	235-1065-ND	7.68	6.05	4.80	MA100BF103B

Standard Thermistors For Temperature Measurement

Accuracy ±1°C (0°C ~ 120°C)

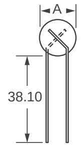

Operating Range: -50°C ~ 150°C **D.C.:** Dissipation Constant (mW/°C)
T.C.: Time Constant (Seconds)

Res. @ 25°C (Ω)	A Max. (mm)	D.C. mW/°C	T.C. Sec.	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
1000	8.13	3.5	30	KC001E-ND	2.36	2.12	1.67	RL3005-574.0-103-SA
2000	5.59	2.5	20	KC002E-ND	2.27	2.04	1.61	RL2005-1148-103-SA
2786	5.59	2.5	20	KC003E-ND	2.27	2.04	1.61	RL2006-1600-103-SA
3000	5.59	2.5	20	KC004E-ND	2.27	2.04	1.61	RL2007-1723-103-SA
5000	2.79	1.0	10	KC005E-ND	2.92	2.63	2.07	RL1003-2871-103-SA
10000	2.79	1.0	10	KC006E-ND	2.92	2.63	2.07	RL1005-5744-103-SA

Miniature Sensors 1°C Accuracy

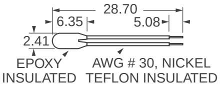

SPECIFICATIONS:

- Temp. Accuracy: ±1°C @ 25°C
- Dissipation Constant: 1.4 mW/°C
- Time Constant: 15 seconds
- Operating Range: -50°C ~ 150°C.

Res. @ 25°C (Ω)	Temp. Coef. %/°C @ 25°C	Mat'l	Digi-Key Part No.	Price Each 1	10	100	250	GE Sensing Part No.
2K	-3.83	MS73	KC001T-ND	2.82	2.54	2.00	1.59	RL0503-1248-73-MS
5K	-4.43	MS95	KC002T-ND	2.82	2.54	2.00	1.59	RL0503-2890-95-MS
10K	-4.40	MS97	KC003T-ND	2.82	2.54	2.00	1.59	RL0503-5820-97-MS
30K	-4.32	MS96	KC004T-ND	2.82	2.54	2.00	1.59	RL0503-17.56K-96-MS
50K	-4.84	MS120	KC005T-ND	2.82	2.54	2.00	1.59	RL0503-27.53K-120-MS
100K	-4.78	MS122	KC006T-ND	2.82	2.54	2.00	1.59	RL0503-55.36K-122-MS

Glass Encapsulated NTC Thermistors

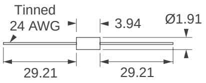

SPECIFICATIONS:
- Temperature Range: -50°C ~ 204°C • Dissipation Constant: 3.0mW/°C • Time Constant: 7 seconds

Glass encapsulated NTC thermistors are tiny pellets of thermistor material thermetically sealed in glass bodies with a controlled amount of selected atmosphere. The thermetic seal makes these parts extremely stable in applications up to 204°C (400°F).

Ro @ 25°C	Temp. Coef. %/°C @ 25°C	Material	Digi-Key Part No.	Price Each 1	10	100	250
250	-3.34	GE55*	KC001G-ND	2.53	2.28	1.80	1.43
500	-3.34	GE55*	KC002G-ND	2.53	2.28	1.80	1.43
1K	-3.83	GE73	KC003G-ND	2.53	2.28	1.80	1.43
2K	-3.83	GE73	KC004G-ND	2.53	2.28	1.80	1.43
2786	-4.68	GE101	KC005G-ND	2.53	2.28	1.80	1.43
3K	-3.85	GE76	KC006G-ND	2.53	2.28	1.80	1.43
4K	-3.85	GE76	KC007G-ND	2.53	2.28	1.80	1.43
5K	-3.85	GE76	KC008G-ND	2.53	2.28	1.80	1.43
10K	-4.41	GE97A	KC009G-ND	2.53	2.28	1.80	1.43
20K	-4.34	GE98	KC010G-ND	2.53	2.28	1.80	1.43
30K	-4.34	GE98	KC011G-ND	2.53	2.28	1.80	1.43
50K	-4.32	GE97B	KC012G-ND	2.53	2.28	1.80	1.43
100K	-4.32	GE97B	KC013G-ND	2.53	2.28	1.80	1.43
200K	-4.71	GE123	KC014G-ND	2.78	2.50	1.97	1.56
500K	-4.99	GE138	KC015G-ND	2.53	2.28	1.80	1.43
1M	-5.07	GE145	KC016G-ND	2.53	2.28	1.80	1.43

* Maximum Operating Temperature: 150°C

NTC Thermistors

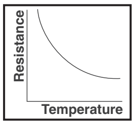

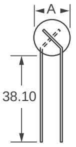

NTC (Negative Temperature Coefficient) Thermistors decrease in resistance as temperature increases. Temperature coefficients range from –20%/°C ~ –5%/°C @ 25°C

- Maximum Operating Temperature: 150°C
- Tolerance: ±20% 100-5Ω; ±10% 1K-100KΩ

Res. @ 25°C (Ω)	Res. Ratio ††	D.C.†	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100	250
100	5.53	2.5	2.79	KC001N-ND★	2.88	2.60	2.05	1.62
50	5.53	6.5	5.59	KC012N-ND★	2.29	2.06	1.62	1.29
25	5.53	6.5	5.59	KC011N-ND★	2.29	2.06	1.62	1.29
10	5.53	7.0	8.13	KC021N-ND★	2.51	2.26	1.78	1.41
5	5.53	10.0	12.19	KC024N-ND★	2.71	2.44	2.11	1.53
1K	6.85	2.8	2.79	KC003N-ND★	2.36	2.12	1.67	1.33
500	6.85	2.5	2.79	KC002N-ND	2.36	2.12	1.67	1.33
300	6.85	6.5	5.59	KC015N-ND★	1.71	1.54	1.22	.97
200	6.85	6.5	5.59	KC014N-ND★	1.71	1.54	1.22	.97
100	6.85	6.5	5.59	KC013N-ND	1.71	1.54	1.22	.97
50	6.85	7.5	9.40	KC022N-ND	1.78	1.60	1.26	1.00
10K	9.60	2.5	2.79	KC025N-ND★	2.36	2.12	1.67	1.33
5K	9.10	2.5	2.79	KC005N-ND★	2.36	2.12	1.67	1.33
3K	9.10	2.5	2.79	KC004N-ND★	2.36	2.12	1.67	1.33
2K	9.10	6.5	5.59	KC017N-ND★	1.72	1.55	1.22	.97
1K	9.10	6.5	5.59	KC016N-ND	1.72	1.55	1.22	.97
10K	11.41	7.2	5.59	KC018N-ND	2.55	2.30	1.81	1.44
100K	12.90	2.7	2.79	KC009N-ND★	2.55	2.30	1.81	1.44
50K	12.90	2.5	2.79	KC008N-ND	2.55	2.30	1.81	1.44
25K	12.90	6.5	5.59	KC019N-ND	1.96	1.76	1.39	1.10
200K	13.82	2.5	2.79	KC010N-ND★	2.55	2.30	1.81	1.44
100K	13.82	6.5	5.59	KC020N-ND	1.96	1.76	1.39	1.10

† D.C. — Dissipation Constant (MW/°C)
†† Resistance Ratio — ratio of zero power resistance @ 0°C to zero power resistance @ 50°C; AWG.

★ **KCNTC-KIT-ND** ***Digi-Key® NTC Thermistors Kit*** 2 each of 14 values denoted (28 total pieces). Notebook style storage case and bin storage guide included. **$39.96**

GE Sensing

NTC Thermistors

THERMAL AND ELECTRICAL PROPERTIES:

Dissipation Constant: (Still Air) 1 mW°C., (Stirred Oil) 8 mW°C.

Thermal Time Constant: (Still Air) 10 Seconds, (Stirred Oil) 1 Second.

Maximum Power Rating: .075 Watts (Derated from 100% at 25°C ~ 0% at 100°C.

Type EC95 and Type DC95 Thermistors may be used at temperatures as low as -80°C and as high as 150°C, however, best over-all stability is achieved with exposure or storage temperatures lower than 105°C.

Thermometrics Type C100 Thermochips are low cost, epoxy coated chip thermistors which represent the highest level of thermistor technology. Thermometrics exclusive "state of the art" materials processing techniques have been proven through extensive field use and long term testing to provide stable, rugged, easy handling thermistors suitable for applications in the temperature range of -80°C ~ 150°C. Best stability is achieved at temperatures not exceeding 105°C.

Type C100

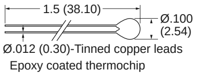

Type DC95 Thermistors are designed to be interchangeable over 0°C to 70° and 0°C to 100°C.

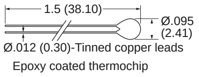

Type EC95 Thermistors are designed to be interchangeable over -20°C to 50°C and 0°C to 70°C.

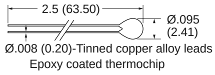

Res. @ 25°C (Ω)	Res. Ratio†	Digi Key Part No.	Price Each 1	10	100	250	GE Sensing Part No.
10K	9.06	235-1001-ND	6.14	4.84	3.84	2.84	C100F103G
10K	9.06	235-1002-ND	4.29	3.38	2.68	1.99	C100F103J
10K	7.60	235-1003-ND	4.29	3.38	2.68	1.99	C100Y103J
10K	9.06	235-1004-ND	6.82	5.37	4.26	3.16	DC95F103W
2K	9.06	235-1005-ND	6.82	5.37	4.26	3.16	DC95F202W
2252	9.06	235-1006-ND	6.82	5.37	4.26	3.16	DC95F232W
5K	9.06	235-1007-ND	6.82	5.37	4.26	3.16	DC95F502W
100K	10.45	235-1008-ND	6.82	5.37	4.26	3.16	DC95G104W
50K	10.45	235-1009-ND	6.82	5.37	4.26	3.16	DC95G503W
10K	9.06	235-1010-ND	6.82	5.37	4.26	3.16	EC95F103W
2K	9.06	235-1011-ND	5.52	4.35	3.45	2.56	EC95F202W
3K	9.06	235-1012-ND	6.82	5.37	4.26	3.16	EC95F302W
100K	10.45	235-1013-ND	9.40	7.41	5.88	4.35	EC95G104W
50K	10.45	235-1014-ND	9.40	7.41	5.88	4.35	EC95G503W
30K	8.69	235-1015-ND	9.40	7.41	5.88	4.35	EC95H303W

† 0°C/50°C Ratio

PTC Thermistors

PTC (Positive Temperature Coefficient) Thermistors are thermally sensitive resistors made of polycrystalline ceramic materials. They are characterized by an extremely large resistance change in a small temperature span.

- All PTC resistances ±30% at 25°C
- Tolerance on transition temperature is ±7°C

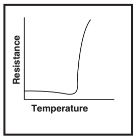

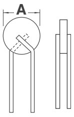

Oper. Volt.	R @ 25°C (Ω)	Transition Temp.	D.C.†	Dim. A (mm)	Digi-Key Part No.	Price Each 1	10	100
12	1	120°C	14.0	15.24	235-1129-ND	3.44	3.10	2.44
12	2	120°C	14.0	15.24	235-1130-ND	3.44	3.10	2.44
12	10	110°C	7.0	8.89	235-1131-ND	1.68	1.52	1.20
12	25	110°C	7.0	8.89	235-1132-ND	1.68	1.52	1.20
25	50	30°C	7.0	7.62	235-1120-ND*	1.68	1.52	1.20
25	50	40°C	7.0	7.62	235-1121-ND*	1.68	1.52	1.20
25	50	50°C	7.0	7.62	235-1122-ND*	1.68	1.52	1.20
25	50	60°C	7.0	7.62	235-1123-ND*	1.68	1.52	1.20
25	50	70°C	7.0	8.89	235-1124-ND	1.68	1.52	1.20
25	50	80°C	7.0	8.89	235-1125-ND	1.68	1.52	1.20
25	50	90°C	7.0	8.89	235-1126-ND	1.68	1.52	1.20
25	50	100°C	7.0	7.62	235-1127-ND*	1.68	1.52	1.20
25	50	110°C	7.0	7.62	235-1128-ND*	1.68	1.52	1.20
50	5	65°C	14.0	15.24	235-1133-ND	3.44	3.10	2.44
50	10	110°C	10.0	11.43	235-1134-ND	2.27	2.04	1.61
50	50	110°C	12.0	11.43	235-1135-ND	2.85	2.57	2.02
50	200	110°C	9.0	10.16	235-1136-ND	2.27	2.04	1.61
120	10	120°C	20.0	20.32	235-1137-ND	3.98	3.58	2.82
120	20	120°C	18.0	16.51	235-1138-ND	3.19	2.87	2.26
120	25	60°C	15.0	15.24	235-1139-ND	3.20	2.88	2.27
120	50	120°C	12.0	12.70	235-1140-ND	3.11	2.80	2.21
240	40	110°C	18.0	16.51	235-1141-ND	3.40	3.06	2.41
240	50	65°C	17.0	15.24	235-1142-ND	3.52	3.16	2.49
240	50	110°C	18.0	16.51	235-1143-ND	3.40	3.06	2.41
240	100	120°C	18.0	16.51	235-1144-ND	3.52	3.16	2.49
240	1500	100°C	12.0	8.89	235-1145-ND	3.44	3.06	2.41
480	1000	100°C	18.0	19.05	235-1146-ND	3.98	3.58	2.82
480	2000	100°C	15.0	13.97	235-1147-ND	3.11	2.80	2.21
480	5000	100°C	12.0	8.89	235-1148-ND	2.27	2.04	1.61

† D.C. – Dissipation Constant (MW/°C)

* **KCPTC1-KIT-ND** ***Digi-Key® PTC Thermistors Kits*** 2 each of all values denoted (12 total pieces). Notebook style storage case and bin storage guide included. **$24.18**

muRata
Innovator in Electronics

POSISTOR® Circuit Protection for Overcurrent Protection 24V Series Chip Type

Overcurrent Protection device with resettable function suitable for current limiting resistor.

This product is chip type PTC thermistor for overcurrent protection.

Suitable for counter-measure for short circuit testing in portable equipment and current limiting resistor.

Features:

- Rapid operation to protect the circuit in an overcurrent condition abnormality such as a short circuit
- By removing the overcurrent condition, these products automatically return to the inital condition and can be used repeatedly
- Automatically return to the initial condition and can be used repeatedly
- Stable resistance after operation due to ceramic PTC
- 0603 SMD type for reflow soldering
- Lead is not contained in the terminations

Dim. in mm

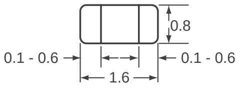

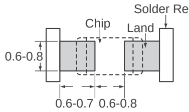

Maximum Voltage (V)	Non-operating Current at 60°C (mA)	Operating Current at -10°C (mA)	Current (mA)	Resistance (at 25°C) (Ω)	Curie Point (°C)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	Murata Part No.
24	7	25	60	470±20%	100 (BB)	490-2473-1-ND	.33	.29	.23	490-2473-2-ND	4,000	122.55/M	PRG18BB471MB1RB
	10	35	130	220±20%	100 (BB)	490-2470-1-ND	.33	.29	.23	490-2470-2-ND	4,000	122.55/M	PRG18BB221MB1RB
	15	55	300	100±20%	100 (BB)	490-2469-1-ND	.33	.29	.23	490-2469-2-ND	4,000	122.55/M	PRG18BB101MB1RB
	20	75	630	47±20%	100 (BB)	490-2472-1-ND	.33	.29	.23	490-2472-2-ND	4,000	122.55/M	PRG18BB470MB1RB
	25	85	900	33±20%	100 (BB)	490-2471-1-ND	.33	.29	.23	490-2471-2-ND	4,000	122.55/M	PRG18BB330MB1RB

POSISTOR® Circuit Protection for Overheat Sensing Chip Type

This chip PTC Thermistor is reflow soldering SMD type for overheat sensing for power transistors, power diodes and power ICs in hybrid circuits.

Features:

- Excellent thermal response because of no coating
- Solid-state construction provides excellent mechanical vibration and impact resistance
- Contact-less operation provides prolonged service life and noiseless operation
- Lead is not contained in the terminations

Dim in mm

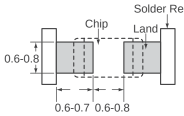

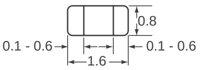

Sensing Temp. (@ 4.7kΩ) (°C)	Maximum Voltage (V)	Resistance (@ 25°C) (Ω)	Operating Temp. Range	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 4,000	Murata Part No.
65±5	32	470±50%	-20°C ~ 80°C	490-2468-1-ND	.38	.34	.27	490-2468-2-ND	143.25/M	PRF18BG471QB1RB
75±5	32	470±50%	-20°C ~ 90°C	490-2467-1-ND	.38	.34	.27	490-2467-2-ND	143.25/M	PRF18BF471QB1RB
85±5	32	470±50%	-20°C ~ 100°C	490-2466-1-ND	.38	.34	.27	490-2466-2-ND	143.25/M	PRF18BE471QB1RB
95±5	32	470±50%	-20°C ~ 110°C	490-2465-1-ND	.38	.34	.27	490-2465-2-ND	143.25/M	PRF18BD471QB1RB
105±5	32	470±50%	-20°C ~ 120°C	490-2464-1-ND	.38	.34	.27	490-2464-2-ND	143.25/M	PRF18BC471QB1RB
115±5	32	470±50%	-20°C ~ 130°C	490-2463-1-ND	.38	.34	.27	490-2463-2-ND	143.25/M	PRF18BB471QB1RB
125±5	32	470±50%	-20°C ~ 140°C	490-2462-1-ND	.38	.34	.27	490-2462-2-ND	143.25/M	PRF18BA471QB1RB
135±5	32	470±50%	-20°C ~ 150°C	490-2460-1-ND	.38	.34	.27	490-2460-2-ND	143.25/M	PRF18AR471QB1RB
145±5	32	470±50%	-20°C ~ 160°C	490-2461-1-ND	.38	.34	.27	490-2461-2-ND	143.25/M	PRF18AS471QB1RB

Surface Mount PTC Thermistors – For Overload Protection

The component consists of a high-performance PTC ceramic disc mounted in a lead-frame, for direct soldering onto a printed-circuit board (PCB) or substrate. The ceramic is soldered to the lead-frame by a local reflow process, during which the solder layer is melted to the metallized ceramic surface using a low residue flux.

Features: • Ideal for pick-and-place circuit assembly • Low mounting height • Suitable for reflow soldering • Small ceramic diameter for faster response • Low heat transfer to substrate • Flat terminations for stable positioning and good solderability

Fig. 1

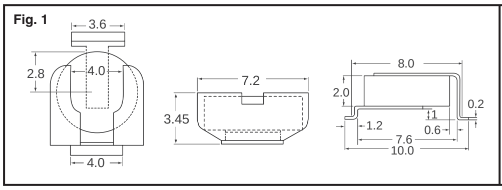

Fig. 2

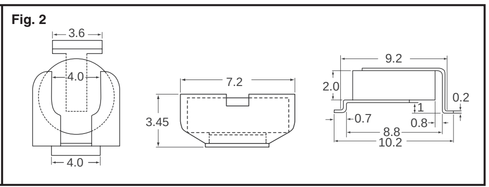

Fig.	Res. @ 25°C (Ω)	V Maximum (V)	I_{nt} @ 25°C	I_{nt} @ 70°C	I_t @ 25°C	Ceramic Size Inch (mm)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Pricing 1,500	BC Components Part No.
							Telecommunication Type						
1	10	245	165	100	270	0.25 (6.5)	BC1566CT-ND	1.61	1.42	1.11	—	—	2322 661 97012
	10	245	165	100	270	0.25 (6.5)	BC1568CT-ND	1.61	1.42	1.11	BC1568TR-ND	604.50/M	2322 661 97016
	17.5	300	150	100	250	0.25 (6.5)	BC1561CT-ND	1.61	1.42	1.11	BC1561TR-ND	604.50/M	2322 661 97003
	17.5	300	150	100	250	0.25 (6.5)	BC1562CT-ND	1.93	1.70	1.33	BC1562TR-ND	724.50/M	2322 661 97004
	20	300	120	70	250	0.25 (6.5)	BC1569CT-ND	1.61	1.42	1.11	BC1569TR-ND	604.50/M	2322 661 97018
	25	265	120	70	220	0.25 (6.5)	BC1563CT-ND	1.93	1.70	1.33	BC1563TR-ND	724.50/M	2322 661 97005
	35	425	110	70	175	0.25 (6.5)	BC1564CT-ND	1.61	1.42	1.11	BC1564TR-ND	604.50/M	2322 661 97009
	40	265	80	50	130	0.25 (6.5)	BC1560CT-ND	1.61	1.42	1.11	BC1560TR-ND	604.50/M	2322 661 97002
2	10	300	150	100	250	0.28 (7.1)	BC1571CT-ND	1.84	1.61	1.27	BC1571TR-ND	690.00/M	2322 661 97203
							General Industrial Type						
1	3.3	24	400	—	650	0.25 (6.5)	BC1567CT-ND	1.61	1.42	1.11	BC1567TR-ND	604.50/M	2322 661 97013
	9.4	60	150	100	300	0.25 (6.5)	BC1565CT-ND	1.61	1.42	1.11	BC1565TR-ND	604.50/M	2322 661 97011

Leaded PTC Thermistors – For Overload Protection

These directly heated thermistors have a positive temperature coefficient and are primarily intended for overload protection.

Features:

- Switch Temperature: Ts = 140°C, (Series 2322 660 5: Ts = 120°C)
- Small ratio between trip and non-trip currents
- High maximum inrush current
- Excellent long term behavior, also in humidity
- UL approved PTCs are guaranteed to withstand severe test programs
- UL file E148885 according to XGPU2 standard UL1434.

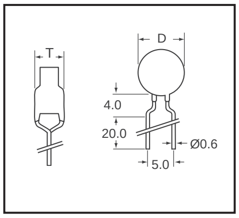

Res. @ 25°C ±20% (Ω)	I_{nt} Max. @ 25°C (mA)	I_t Min. @ 25°C (mA)	V Max. (V)	Typical øD (mm)	Dimensions (mm) Maximum D	T	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
0.9	920	1380	30	12	12.5	4.0	BC2323-ND◊	1.75	1.58	1.25	2381 662 59211
6	270	405	30	4.5	5.0	4.0	BC1337-ND	1.09	.99	.78	2322 660 52711
50	94	145	60	4.5	5.0	4.0	BC2319-ND◊	1.09	.99	.78	2381 660 59491
1.3	1000	1500	145	20	20.5	5.0	BC1359-ND	5.43	4.88	3.85	2322 664 51022
3.8	450	675	145	12	12.5	5.0	BC1355-ND	1.67	1.50	1.19	2322 662 54512
3.8	450	675	145	12	12.5	5.0	BC2322-ND◊	1.75	1.58	1.25	2381 662 54512
6.7	320	480	145	10	10.5	5.0	BC1353-ND	1.98	1.78	1.41	2322 662 53212
8	270	405	145	8.0	8.5	5.0	BC1352-ND	1.42	1.28	1.01	2322 661 52712
19	170	255	145	6.5	7.0	5.0	BC1350-ND	1.42	1.28	1.01	2322 661 51712
40	110	165	145	4.5	5.0	5.0	BC1348-ND	1.28	1.16	.91	2322 660 51112
55	93	140	145	4.5	5.0	5.0	BC1347-ND	1.09	.99	.78	2322 660 59392
240	47	70	145	4.5	5.0	5.0	BC1346-ND	1.09	.99	.78	2322 660 54792
48	110	165	265	6.5	7.0	5.5	BC2321-ND◊	1.28	1.16	.91	2381 661 51113
56	95	143	265	4.5	5.0	5.5	BC1367-ND	.71	.64	.51	2322 660 59593
56	95	143	265	4.5	5.0	5.5	BC2320-ND◊	.71	.64	.51	2381 660 59593
120	63	95	265	4.5	5.0	5.5	BC1365-ND	1.04	.94	.74	2322 660 56393
120	63	95	265	4.5	5.0	5.5	BC2318-ND◊	1.13	1.02	.80	2381 660 56393
260	39	59	265	4.5	5.0	5.5	BC1364-ND	1.04	.94	.74	2322 660 53993
500	28	42	265	4.5	5.0	5.5	BC2316-ND◊	1.04	.94	.74	2381 660 52893
1200	19	29	265	4.5	5.0	5.5	BC2315-ND◊	1.13	1.02	.80	2381 660 51993

◊ ***RoHS Compliant***

Leaded PTC Thermistors – Overload Protection for Telecommunication

Advanced developments in telephone equipment in recent years have radically altered the protection requirements for both exchange and subscriber equipment. The BC Components range of Positive Temperature Coefficient (PTC) thermistors includes devices specially designed to provide overcurrent protection.

Features: • Fast protection against power contact faults • Withstand high overload currents of up to 10A • High voltage withstanding capabilities for the larger sized thermistors • Good tracking over a wide temperature range for all matched or binned types • Excellent stability over extended time • All telecom PTCs are coated with a high temperature silicon lacquer (UL94V0) to protect them from any harsh environments and to improve their lifetime.

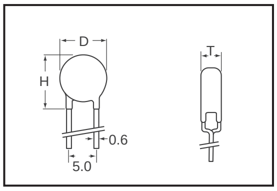

Res. @ 25°C (Ω)	V Max. (V)	Non-Trip Current I_{nt} (mA)	Trip Current I_{nt} (mA)	Dimensions (mm) Maximum D	T	H	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 1,500	BC Components Part No.
4	100	85	280	7.0	4.0	11.0	BC1553CT-ND	1.00	.88	.69	—	—	2322 661 91066
25	220	70	200	8.5	5.0	11.5	BC1554CT-ND	1.19	1.04	.82	BC1554TR-ND	445.50/M	2322 661 93048
25	245	70	200	8.3	4.0	11.0	BC1555CT-ND	1.19	1.04	.82	BC1555TR-ND	445.50/M	2322 661 93043
10	245	140	270	11.0	4.5	15.5	BC1556CT-ND	2.24	1.96	1.54	BC1556TR-ND	838.50/M	2322 662 93074
25	250	70	175	7.0	4.0	9.8	BC1557CT-ND	1.19	1.04	.82	—	—	2322 661 93148
10	350	100	270	8.5	4.0	11.5	BC1376-ND*	1.11	1.00	.79	—	—	2322 661 93124

* Bulk Pricing

Leaded PTC Thermistors – For Temperature Protection

These directly heated thermistors have a positive temperature coefficient and are primarily intended for sensing.

Transition Temperature Tn (°C)	Color Code	Digi-Key Part No.	Price Each 1	10	100	BC Components Part No.
120	Green	BC1381-ND	1.05	.94	.75	2322 671 91107

120Ω	Maximum Resistance at 25°C
4000Ω	Min. Resistance at (Tn + 15) °C
30V	Maximum (DC) Voltage
-20 to (Tn + 15) °C	Temperature Range
30 ~ 250Ω	Resistance from -20°C ~ Tn -20°C (Ω)
50 ~ 570Ω	Resistance at Tn -5°C (Ω)
1.33 ~ 50kΩ	Resistance at Tn 5°C (kΩ)

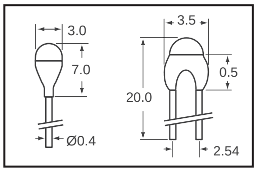

GE Sensing

Inrush Current Limiters

SPECIFICATIONS: • Inrush Current Limiters protect against high peak inrush current, especially in AC/DC switching power supplies • All resistances ±25% @ 25°C • All parts insulated with a protective coating

Resistance under load is for reference only. Actual values may vary due to ambient temperature, air flow, or mounting conditions.

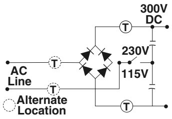

No Load Res. @ 25°C (Ω)	Maximum* Steady State Current (Amps)	Approximately Res. @ I Max. (Ω)	Diameter (mm)	Digi-Key Part No.	Price Each 1	10	100
0.7	12.0	.02	19.56	KC022L-ND	4.05	3.64	2.87
1.3	8.0	.04	13.97	KC023L-ND	2.65	2.38	1.88
2.5	8.0	.06	19.56	KC003L-ND	2.70	2.43	1.91
5.0	6.0	.11	19.56	KC004L-ND	2.23	2.00	1.58
7.0	5.0	.16	19.56	KC005L-ND	2.23	2.00	1.58
10.0	5.0	.18	19.56	KC006L-ND	2.23	2.00	1.58
16.0	4.0	.27	19.56	KC007L-ND	2.23	2.00	1.58
47.0	3.0	.49	19.56	KC008L-ND	2.23	2.00	1.58
120.0	2.0	1.18	23.62	KC009L-ND	2.59	2.33	1.84
0.5	16.0	.02	23.62	KC024L-ND	5.16	4.64	3.66
10.0	3.2	.18	10.16	KC011L-ND	1.96	1.76	1.39
10.0	1.7	.34	10.16	KC012L-ND	1.96	1.76	1.39
50.0	1.6	.75	11.43	KC013L-ND	1.96	1.76	1.39
50.0	1.1	.89	11.43	KC014L-ND	1.96	1.76	1.39
5.0	4.7	.11	13.97	KC015L-ND	2.00	1.80	1.42
5.0	2.8	.20	13.97	KC016L-ND	2.00	1.80	1.42
16.0	2.7	.33	13.97	KC017L-ND	2.00	1.80	1.42
16.0	1.7	.49	13.97	KC018L-ND	2.00	1.80	1.42
25.0	2.4	.41	13.97	KC019L-ND	2.00	1.80	1.42
25.0	1.7	.49	13.97	KC020L-ND	2.00	1.80	1.42
30.0	1.5	.60	15.24	KC021L-ND	1.96	1.76	1.39

* These values are suggested maximums based upon 25°C ambient, no air flow environment with the thermistor mounted 1/2" from circuit board.

PTC Resettable Fuses

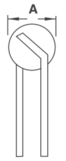

• Telephone line fault protection • Over-current protection for transformers • Locked rotor protection for FHP motors

Minimum Limit Current: The minimum amount of current required by the PTC to guarantee switching at the minimum ambient temperatures.

Maximum Limit Current: The maximum amount of current the PTC must be able to pass without switching at the maximum ambient temperature.

Oper. Volt.	No Ld. Res. @ 25°C	Dim. A (mm)	Min. Switch Current 0°C	25°C	Max. No-Switch Current 25°C	55°C	Type Number	Digi-Key Part No.	Price Each 1	10	100
12	1	15.24	1.45	1.29	0.87	0.64	RL5305-1-110-12-PTF	235-1149-ND	2.28	2.05	1.62
	2.5	15.24	0.92	0.82	0.55	0.40	RL5305-2.5-110-12-PTF	235-1160-ND	3.24	2.92	2.30
	5	11.43	0.55	0.49	0.33	0.24	RL4005-5-110-12-PTF	235-1150-ND	2.99	2.70	2.12
	10	8.89	0.32	0.30	0.19	0.14	RL3005-10-110-12-PTF	235-1151-ND	1.70	1.53	1.21
	25	8.89	0.20	0.19	0.12	0.09	RL3005-25-110-12-PTF	235-1159-ND	1.70	1.53	1.21
25	1.5	19.05	1.34	1.19	0.81	0.59	RL7008-1.5-110-25-PTF	235-1161-ND	4.05	3.64	2.87
	3.0	13.97	0.84	0.74	0.50	0.37	RL5008-3.0-110-25-PTF	235-1162-ND	3.37	3.03	2.39
50	5.0	15.24	0.65	0.58	0.39	0.29	RL5506-5-110-50-PTF	235-1152-ND	3.24	2.92	2.30
	10	11.43	0.39	0.34	0.23	0.17	RL4006-10-110-50-PTF	235-1153-ND	2.30	2.07	1.63
	25	12.70	0.27	0.24	0.16	0.12	RL4508-25-110-50-PTF	235-1163-ND	2.56	2.30	1.82
	50	11.43	0.19	0.17	0.11	0.08	RL4010-50-110-50-PTF	235-1158-ND	2.30	2.07	1.63
	100	10.67	0.13	0.12	0.08	0.06	RL3810-100-110-50-PTF	235-1154-ND	1.90	1.71	1.35
120	10	20.32	0.55	0.49	0.33	0.24	RL7510-10-110-120-PTF	235-1155-ND	4.05	3.64	2.87
	20	16.51	0.37	0.33	0.22	0.16	RL6010-20-110-120-PTF	235-1164-ND	3.24	2.92	2.30
	50	12.70	0.19	0.17	0.11	0.08	RL4510-50-110-120-PTF	235-1156-ND	3.37	3.03	2.39
	100	10.16	0.13	0.11	0.08	0.06	RL3510-100-110-120-PTF	235-1157-ND	3.16	2.84	2.24
240	50	16.51	0.23	0.21	0.14	0.10	RL6315-50-110-240-PTF	235-1165-ND	4.05	3.64	2.87
	100	16.51	0.16	0.15	0.10	0.07	RL6315-100-110-240-PTF	235-1166-ND	4.05	3.64	2.87
	250	16.51	0.10	0.09	0.06	0.05	RL6315-250-110-240-PTF	235-1167-ND	4.17	3.76	2.96

PTC Thermistors YM120 Series

Electrical Specifications Res. @ 25°C Ω	I_{nt} (25°C) mA	I_t (25°C) mA	I_{nt} (55°C) mA	I_t (10°C) mA	Imo A	Vmax Vrms	Dim. A Max.	Digi-Key Part No.	Price Each 1	10	100	GE Sensing Part No.
1800	16	23	12	25	0.1	730	4.0mm	235-1072-ND	2.72	2.38	1.85	YM120C15N182
1200	20	28	16	31	0.1	610	4.0mm	235-1073-ND	2.72	2.38	1.85	YM120C20N122
600	28	40	22	44	0.2	540	4.0mm	235-1074-ND	2.72	2.38	1.85	YM120C30N601
300	39	55	30	60	0.2	450	4.0mm	235-1075-ND	2.72	2.38	1.85	YM120C45N301
150	57	80	44	88	0.2	265	4.0mm	235-1076-ND	2.72	2.38	1.85	YM120C60N151
100	70	98	54	108	0.4	265	4.5mm	235-1077-ND	1.64	1.44	1.12	YM120C80N101
60	93	131	72	144	0.6	265	6.0mm	235-1078-ND	1.64	1.44	1.12	YM120D105N600
45	110	155	85	170	0.7	265	7.0mm	235-1079-ND	1.64	1.44	1.12	YM120D125N450
33	128	181	99	198	0.9	265	7.5mm	235-1080-ND	2.34	2.05	1.59	YM120D150N330
25	161	228	125	250	1.1	265	8.5mm	235-1081-ND	2.34	2.05	1.59	YM120D170N250
20	192	265	149	298	1.3	265	9.5mm	235-1082-ND	2.34	2.05	1.59	YM120D200N200
15	234	330	181	362	1.7	265	11.5mm	235-1083-ND	3.25	2.85	2.21	YM120D260N150
10	314	444	243	486	2.7	265	14.0mm	235-1084-ND	4.71	4.12	3.20	YM120D370N100
6	407	575	315	630	3.9	265	16.5mm	235-1085-ND	5.78	5.06	3.93	YM120D480N060

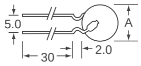

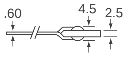

This range of PTC thermistors is designed to operate at main voltages and is intended for general purpose usage in over-current, over-voltage and direct over-temperature protection.

Each device in the range consists of a disc of barium titanate thermistor material with silvered faces and solder coated copper lead wires. A painted finish is applied which is not intended to confer insulating properties.

R25	Resistance at 25°C
20%	Tolerance on Resistance at 25°C
I_{nt}(25°C)	Current which will not trip thermistor (25°C ambient)
I_t(25°C)	Current which will trip thermistor (25°C ambient)
I_{nt}(55°C)	Current which will not trip thermistor (55°C ambient)
I_t(10°C)	Current which will trip thermistor (10°C ambient)
I mo	Maximum Overload Current at 265V rms (10° ambient)
V Max.	Maximum Voltage V ms
D Max.	Maximum Disc Diameter
T Max.	Maximum Overall Thickness

AVX Accu-Guard® SMD Thin-Film Fuse

The Accu-Guard series of fuses is based on thin-film techniques. This technology provides a level of control on the component electrical and physical characteristics that is generally not possible with standard fuse technologies. This has allowed AVX to offer a series of devices which are designed for modern surface mount circuit boards which require protection.

FEATURES: • Accurate current rating • Fast-acting • Completely compatible with all soldering systems used for SMT

APPROVALS: • UL, cUL: RCD#E143842

SPECIFICATIONS: • **Operating Temperature:** -55°C ~ 125°C • **Current Carrying Capacity:** -55°C 107% of rating; -25°C 100% of rating, 125°C 80% of rating • **Rated Voltage:** 32VAC VDC • **Interrupt Rating:** 50A • **Insulation Resistance:** >20MΩ guaranteed (after using at rated voltage)

RoHS COMPLIANT

Size	Dimensions Inches (mm) L	W	T	B
F0402E	0.039±0.004 (1.00±0.10)	0.022±0.003 (0.55±0.07)	0.016±0.004 (0.40±0.10)	0.008±0.004 (0.20±0.10)
F0603E	0.063±0.004 (1.60±0.10)	0.032±0.004 (0.81±0.10)	0.025±0.004 (0.63±0.10)	0.014±0.006 (0.35±0.15)

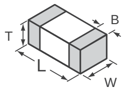

Case Size	Amp Rating	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	AVX Part No.
0402	0.25	478-2852-1-ND	.35	.33	.25	478-2852-2-ND	5,000	135.00/M	F0402E0R25FSTR
	0.50	478-2853-1-ND	.35	.33	.25	478-2853-2-ND	5,000	135.00/M	F0402E0R50FSTR
	0.75	478-2854-1-ND	.35	.33	.25	478-2854-2-ND	5,000	135.00/M	F0402E0R75FSTR
	1.00	478-2855-1-ND	.35	.33	.25	478-2855-2-ND	5,000	135.00/M	F0402E1R00FSTR
	1.50	478-2856-1-ND	.35	.33	.25	478-2856-2-ND	5,000	135.00/M	F0402E1R50FSTR
	2.00	478-2857-1-ND	.35	.33	.25	478-2857-2-ND	5,000	135.00/M	F0402E2R00FSTR
0603	0.25	478-2858-1-ND	.39	.36	.27	478-2858-2-ND	3,000	149.00/M	F0603E0R25FSTR
	0.375	478-2859-1-ND	.39	.36	.27	478-2859-2-ND	3,000	149.00/M	F0603E0R37FSTR
	0.50	478-2860-1-ND	.39	.36	.27	478-2860-2-ND	3,000	149.00/M	F0603E0R50FSTR
	0.75	478-2861-1-ND	.39	.36	.27	478-2861-2-ND	3,000	149.00/M	F0603E0R75FSTR
	1.00	478-2862-1-ND	.39	.36	.27	478-2862-2-ND	3,000	149.00/M	F0603E1R00FSTR
	1.25	478-2863-1-ND	.39	.36	.27	478-2863-2-ND	3,000	149.00/M	F0603E1R25FSTR
	1.55	478-2864-1-ND	.39	.36	.27	478-2864-2-ND	3,000	149.00/M	F0603E1R50FSTR
	1.75	478-2865-1-ND	.39	.36	.27	478-2865-2-ND	3,000	149.00/M	F0603E1R75FSTR
	2.00	478-2866-1-ND	.39	.36	.27	478-2866-2-ND	3,000	149.00/M	F0603E2R00FSTR
	2.50	478-2867-1-ND	.39	.36	.27	478-2867-2-ND	3,000	149.00/M	F0603E2R50FSTR
	3.00	478-2868-1-ND	.39	.36	.27	478-2868-2-ND	3,000	149.00/M	F0603E3R00FSTR

AMETHERM

Circuit Protection Thermistors

Inrush Current Limiters

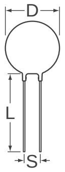

Ametherm's MegaSurge™, Surge Limiter and bigAMP Series of Inrush Current Limiters offer an economical and space saving solution for limiting high inrush currents. Ametherm also offers the highest current rated Thermistors available for Inrush Current Limiting.

Resistance @ 25°C (Ω)	Maximum Steady State Current @ 65°C (Amps)	Maximum Energy (Joules)	Diameter (D) (mm)	Lead Spacing (S) (mm)	Lead Length (L) (mm)	Digi-Key Part No.		Price Each		Ametherm Part No.
							1	10	100	
150	2.0	110	12 ±0.5	7.8 ±2.0	38 ±9.0	570-1000-ND	3.11	1.92	1.45	MS12 15102
30	4.2	135	15 ±1.0	7.8 ±2.0	38 ±9.0	570-1001-ND	3.62	2.23	1.69	MS15 30004
40	4.1	135	15 ±1.0	7.8 ±2.0	38 ±9.0	570-1002-ND	3.62	2.23	1.69	MS15 40004
10	8.0	200	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1003-ND	3.49	2.86	2.23	MS22 10008
20	5.0	180	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1007-ND	3.49	2.86	2.23	MS22 20005
30	5.0	150	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1009-ND	3.49	2.86	2.23	MS22 30005
50	4.0	240	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1010-ND	3.49	2.86	2.23	MS22 50004
75	4.0	240	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1011-ND	3.49	2.86	2.23	MS22 75004
120	2.0	220	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1004-ND	3.49	2.86	2.23	MS22 12102
120	3.0	220	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1005-ND	3.49	2.86	2.23	MS22 12103
120	4.0	220	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1006-ND	3.49	2.86	2.23	MS22 12104
220	3.5	75	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1008-ND	3.49	2.86	2.23	MS22 22103
.50	36	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1012-ND	4.29	3.51	2.73	MS32 0R536
.50	40	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1013-ND	4.29	3.51	2.73	MS32 0R540
1.0	36	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1016-ND	4.29	3.51	2.73	MS32 1R036
2.0	25	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1019-ND	4.29	3.51	2.73	MS32 2R025
5.0	20	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1021-ND	4.29	3.51	2.73	MS32 5R020
7.0	15	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1022-ND	4.29	3.51	2.73	MS32 7R015
10	15	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1014-ND	4.29	3.51	2.73	MS32 10015
15	12	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1015-ND	4.29	3.51	2.73	MS32 15012
20	8.0	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1017-ND	4.29	3.51	2.73	MS32 20008
20	10	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1018-ND	4.29	3.51	2.73	MS32 20010
50	6.0	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1020-ND	4.29	3.51	2.73	MS32 50006
.50	50	900	35 ±2.5	19 ±3.0	39 ±4.0	570-1023-ND	6.16	5.04	3.92	MS35 0R550
1.0	40	800	35 ±2.5	19 ±3.0	39 ±4.0	570-1025-ND	6.16	5.04	3.92	MS35 1R040
2.0	35	750	35 ±2.5	19 ±3.0	39 ±4.0	570-1027-ND	6.16	5.04	3.92	MS35 2R035
3.0	30	750	35 ±2.5	19 ±3.0	39 ±4.0	570-1028-ND	6.16	5.04	3.92	MS35 3R030
5.0	25	600	35 ±2.5	19 ±3.0	39 ±4.0	570-1029-ND	6.16	5.04	3.92	MS35 5R025
10	18	500	35 ±2.5	19 ±3.0	39 ±4.0	570-1024-ND	6.16	5.04	3.92	MS35 10018
20	10	500	35 ±2.5	19 ±3.0	39 ±4.0	570-1026-ND	6.16	5.04	3.92	MS35 20010
.50	16	160	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1030-ND	1.61	.99	.75	SL22 0R516
.70	12	120	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1031-ND	1.61	.99	.75	SL22 0R712
1.0	20	65	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1041-ND	1.61	.99	.75	SL22 1R020
2.0	18	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1044-ND	1.61	.99	.75	SL22 2R018
2.5	8.0	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1045-ND	1.61	.99	.75	SL22 2R508
2.5	10	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1046-ND	1.61	.99	.75	SL22 2R510
2.5	15	90	20 ±1.0	8.0 ±0.2	38 ±9.0	570-1047-ND	1.61	.99	.75	SL22 2R515
4.0	14	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1050-ND	1.61	.99	.75	SL22 4R014
5.0	6.0	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1052-ND	1.61	.99	.75	SL22 5R006
5.0	12	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1053-ND	1.61	.99	.75	SL22 5R012
7.0	10	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1055-ND	1.61	.99	.75	SL22 7R010
10	5.0	90	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1032-ND	1.61	.99	.75	SL22 10005
10	7.0	90	20 ±1.0	7.5 ±0.80	38 ±9.0	570-1033-ND	1.61	.99	.75	SL22 10007
10	8.0	90	20 ±1.0	7.5 ±0.80	38 ±9.0	570-1034-ND	1.61	.99	.75	SL22 10008
10	9.0	100	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1035-ND	1.61	.99	.75	SL22 10009
14	5.0	75	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1038-ND	1.61	.99	.75	SL22 14005
14	7.0	75	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1039-ND	1.61	.99	.75	SL22 14007
16	4.0	100	20 ±1.0	9.4 ±0.9	38 ±9.0	570-1040-ND	1.61	.99	.75	SL22 16004
20	7.0	125	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1042-ND	1.61	.99	.75	SL22 20007
30	5.0	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1048-ND	1.61	.99	.75	SL22 30005
40	5.0	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1049-ND	1.61	.99	.75	SL22 40005
50	4.0	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1051-ND	1.61	.99	.75	SL22 50004
60	3.0	72	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1054-ND	1.61	.99	.75	SL22 60003
120	2.0	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1036-ND	1.61	.99	.75	SL22 12102
120	3.0	80	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1037-ND	1.61	.99	.75	SL22 12103
220	2.0	72	20 ±1.0	7.8 ±2.0	38 ±9.0	570-1043-ND	1.61	.99	.75	SL22 22102
.50	30	150	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1056-ND	1.87	1.15	.87	SL32 0R530
.50	36	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1057-ND	1.87	1.15	.87	SL32 0R536
1.0	30	160	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1059-ND	1.87	1.15	.87	SL32 1R030
1.0	36	160	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1060-ND	1.87	1.15	.87	SL32 1R036
2.0	23	250	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1061-ND	1.87	1.15	.87	SL32 2R023
2.0	25	300	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1062-ND	1.87	1.15	.87	SL32 2R025
4.0	23	200	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1063-ND	1.87	1.15	.87	SL32 4R023
5.0	20	200	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1064-ND	1.87	1.15	.87	SL32 5R020
10	15	150	30 ±2.5	7.8 ±2.0	38 ±9.0	570-1058-ND	1.87	1.15	.87	SL32 10015

GMR Digital Magnetic Sensors

Standard Axis

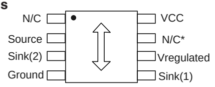

Cross Axis

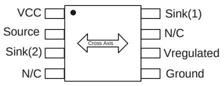

The GMR Switch will accurately and reliably sense magnetic fields, with less error than any other magnetic sensor on the market today.

In addition, there is minimal shift in the magnetic field operate point of the GMR Switch over both voltage and temperature extremes. This gives the manufacturer the ability to make a high precision, high tolerance magnetic sensing assembly.

Features:

Absolute Maximum Ratings:
Parameters: • Supply Voltage: 33V • Reverse Battery Voltage: -33V • Continuous Output Current: 24 mA • Operating Temperature Range: -40°C ~ -125°C • Magnetic Field: Unlimited Oersteds

Electrical Specifications:
Parameter: • Supply Voltage: 4.5-30V • Supply Current, Single Output GMR Switch: 2.5-4.5mA • Current Sinking Output: 0-20mA • Current Sourcing Output: 0-20mA • Output Leakage Current: 10mA • Sinking Output Saturation Voltage: 0.4V • Sourcing Output Saturation Voltage: -2.5V • Regulated Output Voltage: 3.5-6.0V

Sensitivity	Direction of Sensitivity	Output Type	Package	Digi-Key Part No.	Price Each 1	10	25	100	NVE Part No.
40 Gauss	Standard	Sink	8-TSSOP	391-1006-ND	2.73	2.05	1.82	1.19	AD005-00
80 Gauss	Standard	Sink	8-TSSOP	391-1007-ND	2.73	2.05	1.82	1.19	AD006-00
28 Gauss	Standard	Sink	8-TSSOP	391-1008-ND	2.73	2.05	1.82	1.19	AD020-00
20 Gauss	Cross Axis	Sink	8-TSSOP	391-1009-ND	2.73	2.05	1.82	1.19	AD021-00
40 Gauss	Cross Axis	Sink	8-TSSOP	391-1010-ND	2.73	2.05	1.82	1.19	AD022-00
80 Gauss	Cross Axis	Sink	8-TSSOP	391-1011-ND	2.73	2.05	1.82	1.19	AD023-00
28 Gauss	Cross Axis	Sink	8-TSSOP	391-1012-ND	2.73	2.05	1.82	1.19	AD024-00
20 Gauss	Cross Axis	Source & Sink	8-TSSOP	391-1013-ND	3.03	2.28	2.02	1.32	AD221-00
28 Gauss	Cross Axis	2 Sink	8-TSSOP	391-1014-ND	3.03	2.28	2.02	1.32	AD324-00
20 Gauss	Cross Axis	Source & Sink + Ext. V. Reg.	8-TSSOP	391-1015-ND	3.30	2.48	2.20	1.43	AD621-00
28 Gauss	Cross Axis	2 Sink + Ext. V. Reg.	8-TSSOP	391-1016-ND	3.30	2.48	2.20	1.43	AD724-00
10 Gauss	Cross Axis	Sink	8-TSSOP	391-1018-ND	2.73	2.05	1.82	1.19	ADH025-00

Voltage Regulators

The DB series signal processing ICs are designed to take a digital input from a sensor element, and provide a high current switched output corresponding with the sensor input. **Temp. Range:** -40°C ~ 175°C

The DC series voltage regulator ICs are designed to be used in harsh, noisy environments where immunity to large voltage transients and acceptance of high input voltages are required. **Temp. Range:** -40°C ~ 175°C

Pkg.	Input Volt. Min.	Max.	Output Volt.	Output Current (V)	Digi-Key Part No.	Price Each 1	10	25	T & R Pricing*	NVE Part No.
				DB Series Power Switch ICs						
8-SOIC	6.2	30	5.0	300mA	391-1023-5-ND	2.55	1.92	1.70	—	DB002-02
				DC Series Voltage Regulators						
6-TDFN	4.5	48	3.3	20mA	391-1024-1-ND	1.58	1.35	1.13	2250.00/2,500	DC001-10
	6.2	48	5.0		391-1025-1-ND	1.58	1.35	1.13	2250.00/2,500	DC002-10

* For Tape and Reel part number, change 1-ND to 2-ND.

GMR Current Sensor Evaluation Assembly

This assembly was created to facilitate laboratory experimentation and development using GMR current sensors. The kit consists of (4) NVE current sensors (PN AC004-01) assembled to a printed circuit board (PN AG002-01). The PCB has (4) trace geometries to simulate various PCB current ranges.

Description	Digi-Key Part No.	Price Each	NVE Part No.
Current Sensor Evaluation Assembly	391-1004-ND	49.14	AG003-01

GMR Analog Magnetic Field Sensors

NVE's Giant Magnetoresistive Field Sensors offer unique and unparallel magnetic sensing capabilities. The high sensitivity and ability to sense static magnetic fields provides superior performance which set them apart from other sensors on the market today. NVE's sensors provide high sensitivity, temperature stability, low power consumption, and small size.

Features: • Input Voltage Range: Maximum: ±25V • Operating Frequency: Minimum: DC, Maximum: ±1MHz • Temperature Range: Minimum: -50°C, Maximum: 125°C • Maximum Output: Nominal: 45mV/V • Magnetic Characteristics: 5 kΩ ±20% bridge; Low Power: 30 kΩ ±20% bridge • Package: 8-SOIC

Saturation Field (Oe)	Specified Linear Range Oe Min.	Max.	Sensitivity (mV/V/Oe) Min.	Max.	Digi-Key Part No.	Price Each 1	10	25	100	NVE Part No.
20	0	14	2	3.2	391-1019-5-ND	8.34	6.26	5.56	3.62	AA003-02
50	0	35	0.9	1.3	391-1001-ND	8.10	6.08	5.40	3.51	AA004-02
100	0	70	0.45	0.65	391-1002-ND	8.10	6.08	5.40	3.51	AA005-02
50	0	35	0.9	1.3	391-1020-5-ND	13.71	10.29	9.14	5.95	AA006-02

GMR Evaluation Kits

AG911-07: Kit includes several GMR Switch parts with different magnetic operate points and different output options such as current sink and current source. Magnets, circuit boards, NVE's catalog and application notes on CD ROM.

AG920-07: Kit includes analog and digital version of the GT sensor product line, DD001-12 IC, magnets, NVE's catalog and application notes on CD ROM.

Description	Digi-Key Part No.	Price Each	NVE Part No.
GMR Switch Evaluation Kit	391-1021-ND	65.00	AG911-07
GT Sensor Evaluation Kit	391-1022-ND	65.00	AG920-07

GMR Bridge Sensors

The AAV001-11 and AAV002-11 are arrays of four GMR resistors, rotated at 90 degree intervals in the package. **Specifications:** • Supply Voltage: 12V maximum • Temperature Range: -40°C ~ 150°C • Package: 6-PLLP

Digi-Key Part No.	Price Each 1	10	25	NVE Part No.
		Two Half Bridges		
391-1026-1-ND	3.57	3.06	2.55	AAV001-11

Electromechanical Controls

Series 1- Electromechanical Controls: Offer 2 pole output contacts with 16 amp rating. Versatile controls can be configured for single level service, differential control, low water cutoff (with manual reset or lock out capability) control and many other functions. **Specifications:** • Contact Rating (110VAC) - 16A Resistive 1 hp • Temperature: -30°F ~ 130°F **Series 3E - Conductive Switches:** Attachment to vessels is accomplished with external pipe threading. Fittings require the use of 3R rigid wire suspended electrodes. **Specifications:** • Pressure/Temp.: 125 psig @ 353°F (cast iron); 250 psig @ 406°F (brass) **Series 3B - Two Piece Threaded Coupling:** These fittings incorporate a 1/4-20 female thread that must be combined with a Series 3R rigid electrode wire suspended electrode to make a complete assembly. **Specifications:** • Two-Piece Threaded Coupling • Teflon® Insulation Sleeve • Pressure/Temperature: 400 psig @ 406°F • Body Material - 316 Stainless Steel **Series 3R - General Purpose 1/4" (.64cm) Threaded Rod:** Metallic rods with threaded ends that screw into a fitting that extends vertically down into the liquid

Series 1 - Electromechanical Controls

Fig.	Primary Voltage	Secondary Voltage /Sensitivity	Contact Configuration	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
1	115VAC	300VAC / 7K Ohm	2 (N.O.), 0 (N.C.)	376-1060-ND	111.95	81.93	77.88	1C1DO
	115VAC	300VAC / 7K Ohm	1 (N.O.), 1 (N.C.)	376-1061-ND	111.95	81.93	77.88	1D1DO
	115VAC	500VAC / 20K Ohm	1 (N.O.), 1 (N.C.)	376-1062-ND	111.95	81.93	77.88	1D1EO

Series 3E - Conductive Switches

Fig.	Vessel/Boss Thread	Terminal Housing Size WxDxH - Inches (mm)	No. of Probes	Body Material	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
2	2" NPT/ 1/2" NPT	3-1/4 x 3-1/4 x 2-3/8" (82.55 x 82.55 x 60.33)	2	Red Brass	376-1070-ND	109.95	83.45	78.54	3E2B
	2-1/2" NPT/ 1/2" NPT		4	Red Brass	376-1072-ND	155.95	132.54	124.74	3E4B
	2" NPT/ 1/2" NPT		2	Cast Iron	376-1074-ND	89.95	71.78	63.13	3E2A
	2" NPT/ 1/2" NPT		3	Cast Iron	376-1075-ND	112.95	91.17	85.80	3E3A

Series 3B - Two Piece Threaded Coupling

Fig.	Thread / Probes Required	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
3	3/8"-18NPT / 3R Series	376-1067-ND	25.95	20.74	18.24	3B1B

Series 3R - General Purpose Threaded Rod

Fig.	Length (Feet)	Probe Material	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
4	1	316 Stainless Steel	376-1077-ND	7.95	7.31	5.61	3R1CO

Fig. 1

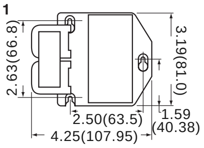

Fig. 2

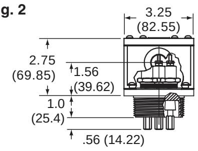

Fig. 3

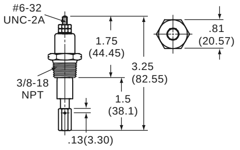

Fig. 4

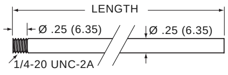

Bare Electrode

Sensors – Flow Switches

Specifications: SPST; N.O. 20VA 120-240 VAC or VDC
SPDT; N.O./N.C. 20VA 120-240 VAC or VDC

Fig. 1

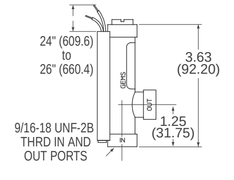

Fig. 2

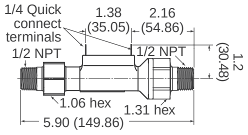

Fig. 3

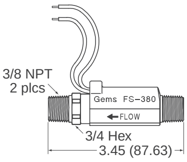

Fig. 4

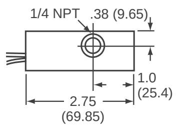

Fig. 5

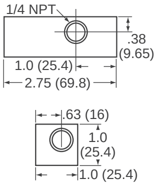

Fig. 6

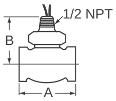

Port Size NPT	Dimensions - Inch (mm) A	B
1"	3-1/4 (82.6)	3 (76.2)
1-1/2"	4-1/4 (114.3)	3-1/2 (88.9)
2"	5-3/8 (136.5)	4 (101.6)

Fig. 7

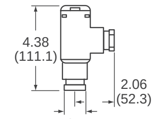

3/4 IPS Model w/ 1/2 NPT port adapter installed

Fig. 8

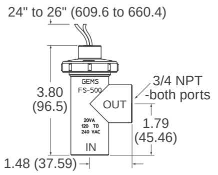

Fig. 9

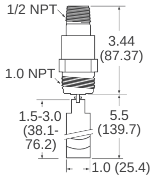

Fig. 10

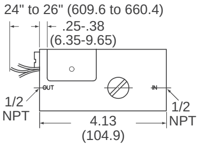

Fig.	Series	Housing	Piston	Spring	Switch Set Point - GPM	Switch	Operating Temperature	Port	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
1	FS-4 Piston Type Molded Plastic Construction	Ryton® R4	316 Stainless Steel	316 Stainless Steel	0.1 0.5	SPST	0°F ~ 225° F (17°C ~ 107°C)	9/16"-18 UNF	376-1107-ND	59.95	52.60	49.50	122340
2	FS-150 Piston Type Straight-through Flow Path with Low Pressure Drop	Polypropylene	Ryton® R4 316 SS	316 Stainless Steel	1.00 2.00	SPST	0°F ~ 212° F (-17.8°~ to 100°C)	1/2" NPT	376-1113-ND	64.95	52.60	49.50	129662
3	FS-380 Piston Type Compact Flow Switch for High Inline Pressures	Brass	PPS Composite	316 Stainless Steel	0.50 1.00	SPST	-20°F ~ 275° F (-28.8°C ~ 135°C)	3/8" NPT	376-1115-ND 376-1116-ND	79.95 79.95	63.80 63.80	56.10 56.10	168433 168434
4	FS-925 Piston Type General Purpose	Brass	Polysulfone for Water Brass for Oil or Air	316 Stainless Steel	0.10 ±10% 0.50 ±10% 1.00 ±10%	SPDT	-20°F ~ 300° F (-29°C ~ 148.9°C)	1/4 " NPT	376-1118-ND 376-1121-ND 376-1122-ND	139.95 139.95 289.95	105.19 105.19 220.90	99.00 99.00 207.90	26914 26918 26926
		316 SS	316 SS		0.10 ±10%								
5	FS-927 Piston Type Compact Brass Switches	Brass	Brass	Stainless Steel	0.50 1.00	SPST	-20°F ~ 200° F (-29°C ~ 93.3°C)	1/4 " NPT	376-1127-ND	74.95	59.82	52.80	70824
6	FS-200 Shuttle Type General Purpose, Straight-Through Flow Path	Bronze	Ceramic	316 Stainless Steel	1 5.0 to 15.0 Adj.	SPDT	-20°F ~ 200° F (-29°C ~ 93.3°C)	1" NPT	376-1135-ND 376-1143-ND	139.95 154.95	105.19 115.71	99.00 108.90	27052 26616
7	FS-400P Shuttle Type for Plastic Piping	PVC	Epoxy	—	0.5 ±20% 0.5 ±20% 2.0 ±20%	SPST	120°F Max. (48.9°C)	1/2" NPT 3/4" IPS 1" IPS	376-1148-ND† 376-1149-ND 376-1150-ND	59.95 49.95 49.95	47.85 45.59 45.59	42.90 42.90 42.90	135805 135810 135815
8	FS-500 Paddle Type for Threaded Plastic Piping	Polypropylene	Polypropylene (Bonnet - not a spring)	316 SS	1.00	SPST	0°F ~ 212°F Max. (100°C)	—	376-1151-ND	49.95	39.88	36.30	170233
9	FS-550 Paddle Type High Pressure	Brass	Ceramic & Teflon®	316 Stainless Steel	Long Short	SPDT	-30°F ~ 300° F (-34.4°C ~ 148.9°C)	1/2" NPT/1" NPT	376-1152-ND 376-1154-ND	149.95 149.95	112.20 112.20	105.60 105.60	29609 30641

† 3/4" IPS model with 1/2" NPT port adapter installed.

Fig.	Series	Housing	Piston	Spring	Switch Set Point GPM	Switch	Port	Interface	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
10	FS-10798 Piston Type Externally Adjustable for Water, Oils and Gases	Brass	Polysulfone (water) Brass for Oils Brass	316 Stainless Steel	0.5 to 20.0 Adj.	SPDT	1/2" NPT	Wire Leads 1/2" Conduit Connector Wire Leads	-20°F ~ 225°F (-29°C ~ 107.2°C) -20°F ~ 300°F (-29°C ~ 148.9°C) -20°F ~ 300°F (-29°C ~ 148.9°C)	376-1130-ND 376-1132-ND 376-1133-ND	284.95 309.95 284.95	210.38 224.40 210.38	198.00 211.20 198.00	25357 49073 25359

Level Sensors with Magnetic Float

Compact sensors for detection of liquid levels such as oils, petroleum and fluids. LS01/02 series are for vertical tank mounting and LS03 is for horizontal mounting. Perfect for tank monitoring in household, automotive, control-test and measurement industries. Sensors are made of strong Polyimide material and include seals and mounting nut. • **Switching Current:** 0.5A • **Switching Voltage:** 200V, stripped and tinned leads.

Fig. 1

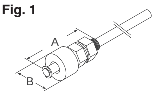

Fig. 2

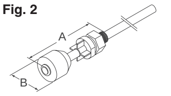

Fig. 3

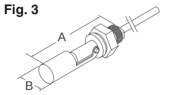

Fig.	Dimensions (mm) A	B	Bushing	Operating Temperature	Termination or Wiring	Digi-Key Part No.	Price Each 1	10	50	Meder Part No.
1	42.5	24	M8x1.25	0°C ~ 70°C	500mm PVC Leads	374-1000-ND	14.89	13.29	10.77	LS01-1A71-PA-500W
2	72.5	23.5	M10x1.0	-20°C ~ 100°C	500mm PVC Leads	374-1001-ND	15.93	14.21	11.52	LS02-1A71-PA-500W
3	80	17.2	M16x1.5	-20°C ~ 100°C	500mm PVC Leads	374-1002-ND	17.71	15.81	12.81	LS03-1A71-PA-500W

Liquid Level Sensors

Crydom liquid level sensors are cost effective sensors for detecting the presence or absence of liquids. Perfect for vending machines, commercial washing machines, evaporator units and any upper and lower liquid level sensing applications. Sensors can be turned 180 degrees for opposite detection. UL approved E171218.

Fig.	Description	Color	Digi-Key Part No.	Price Each 1	10	25	Crydom Part No.
1	Heavy Liquid Horizontal Level Sensor with MNT Hardware, .6A	Poly Opaque PPS Gray	CC1561-ND CC1562-ND	16.42 18.62	14.37 16.30	13.14 14.90	RSF14Y100RF RSF16Y100RF
2	Horizontal Liquid Level Sensor with Mount Hardware, .6A	Nylon Black Poly Opaque	CC1563-ND CC1564-ND	12.88 13.66	11.27 11.96	10.31 10.93	RSF43Y100RF RSF44Y100RF
3	Horizontal Liquid Level Sensor with Quick MNT Style, .6A	Nylon Black Poly Opaque	CC1565-ND CC1566-ND	11.72 12.42	10.26 10.87	9.38 9.94	RSF83Y100R RSF84Y100R

Fig. 1

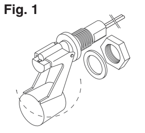

Fig. 2

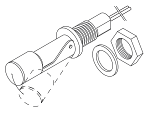

Fig. 3

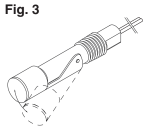

Intrinsically Safe Control Relay

- Inverse or direct acting, field selectable • Solid state reliability • Compact size • Four independent channels - 2 single, 2 differential
- Field adjustable • LED channel indicators • Built-in silence/acknowledge circuit • U.L. "intrinsically safe"

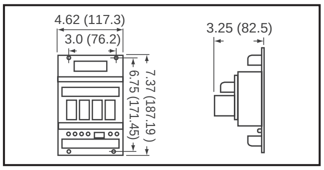

Series (SPDT)	Primary Voltage	Secondary Voltage	Sensitivity	Contact Rating	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
67	120VAC 60Hz	12VAC 6mA RMS	10KΩ	10Amp DC, 5Amp AC	376-1056-ND	489.95	343.62	323.40	67B1C0A

SAFE-PAK® Relay

Amplify Sensor Load-Handling Capabilities
Costly explosion-proof enclosure with their mounting requirements are unnecessary. No purging is required. Less than 100mA at 9VDC actuates the unit to control loads to 5A at 120VAC. Resistive (up to 100,000W) or short-circuiting sensors operate the unit.

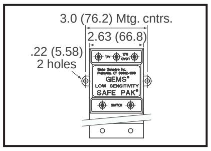

Load Voltage	Load Current	Operating Voltage	Switch	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
100 ~ 135VAC	5A	100 ~ 135VAC	SPST	0°F ~ 120°F (-17.8°C ~ 48.9°C)	376-1158-ND	169.95	124.36	114.07	25872
200 ~ 250VAC		200 ~ 250VAC			376-1159-ND	169.95	124.36	114.07	25873

General Purpose Industrial Pressure Transducer - 2200 Series

Features:
- Submersible, general purpose and wash down enclosures • High stability achieved by CVD sensing element

Specifications:
- 4-20mA Output • 1/4" NPT Pressure Port • Operating Temperature: -22°F ~ 260°F (-40°C ~ 125°C)

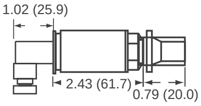

Pressure	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
0~100PSIG	376-1156-ND	244.95	171.81	161.70	2200BGG1002A3UA

Single Channel Zener Barrier Switch - Series 65800

Render Switches or Signal Conditioners Intrinsically Safe

Features: • Intrinsic safety with solid-state reliability • Compact size streamlines installation • Space-saving in multiples • Encapsulated construction is impervious to dust and moisture

Specifications: • Maximum Voltage 30VDC • Maximum Current 250mA • Resistance 303 Ω • Channels - 1

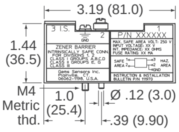

Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
-40°F ~ 140°F (-40°C ~ 60°C)	376-1166-ND	96.95	70.96	65.09	113000

Sensors – Float Type Level Switches

LS-3 Series:
- Small size engineered plastics • High reliability • Compact Size • Ideal for shallow tanks or restricted spaces. **Part No. 376-1010-ND (46999)**: For external mounting on tanks too small to accommodate internally mounted switches.

LS-1800 Series:
- Large size alloys • A step above our plastic units for pressure capabilities
- Excellent stability for general use in oils and water

LS-270 Series:
- Specialty Switches • Ideal for use in oils and water • The TH-800 series temperature/level switch in a single unit. Intermediate in size; single-setting temperature sensor is in bottom of stem • The LS-270 series bracket mounting slosh shield. Small, lightweight, and extremely stable in nonstatic, highly contaminated liquids. Slosh Shielding minimizes effects of turbulence and helps prevent interference by foreign material.

Fig. 1

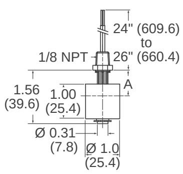

Fig. 2

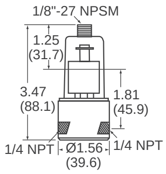

Fig. 3

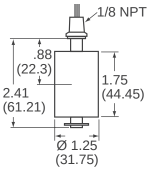

Fig.	Series	Switch Rating	Switch Type	Material Stem and Mounting/Float	Min. Liquid Sp. Gr.	Dim. A - Switch Act. N.O./N.C. - Inch (mm)	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
1	LS-3	20VA, 120-240VAC	SPST	Polysulfone	.75	.750 (19.05) / —	-40°F ~ 225°F (-40°C ~ 107°C)	376-1007-ND	23.95	19.14	16.83	42295
2				Polysulfone	.75	—	-40°F ~ 120°F (-40°C ~ 48.9°C)	376-1010-ND	97.95	71.69	65.76	46999
3	LS-1800	100VA, 120-240VAC	SPST	Brass/Buna N	.75	—	Oil: -40°F ~ 230°F (-40°C ~ 110°C)	376-1027-ND	42.95	34.30	30.16	35651

FABRI-LEVEL™ Kit

FABRI-LEVEL Switch Kits contain all components for complete assembly of a 1- or 2-station level switch unit for pipe-plug mounting in your tank. N.O. or N. C. operation of the SPST switch is selectable by inverting the float(s) on the unit stem.

Kit Contains: • 1 Tube Connector • 1 Mounting Plug • 2 Extension Tubes • 1 Tube End Fittings • 3 Tube Unions • 2 Level Stations (Switch, Tube, Float)

Fittings	Floats	Mounting Port	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
Brass	Buna N	2"	376-1044-ND	285.95	200.56	188.76	24576

Electro-Optic Sensors

(Not recommended for use in any liquid that crystallizes or leaves a solid residue.)

Compact, Electro-Optic Liquid Level Switches and Controllers

Features:
- Small size • Built-in, solid-state electronics • No moving parts • Simple, one-unit installation **Specifications:** Maximum Operating Pressure: 0 ~ 150 PSI **ELS-1100HT:** Output: TTL/CMOS compatible, transistor output with 10K oull-up resistor

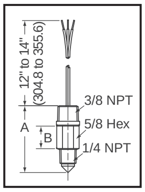

Series	Dimension Inch (mm) A	B (Hex.)	Input Voltage (VDC)	Probe Cond. @ Current Sink	Material Housing/Prism	Operating Temperature	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
ELS-1100HT	2 (50.8)	3/4 (19.0)	12	Dry	Isoplast®	40°C ~ 100°C	376-1005-ND	72.95	58.22	51.20	153064

Flow Sensors

Features: Operating Temperature: Brass: -20°F ~ 212°F (-29°C ~ 100°C), Polypropylene Body: -20°F ~ 180°F (-29°C ~ 82°C)

RFS Series - Flow Set Point Switching: Combines visual confirmation of flow with dynamic, electronic switch operation. Easy, adjustable switch point calibration: a local LED signals when set point is reached.

RFO Type - Flow Rate Monitoring: Output signal for RFO Types is an on/off pulse of the DC voltage supplied to the unit, it is compatible with all digital logic families. Frequency of the output pulse is proportional to the flow rate and ranges from approximately 25Hz at low flow to 225Hz at high flow.

RFI Type - Visual Indicators: A bright orange rotor turning with fluid flow. Simple, direct and reliable. Flow rate is estimated, or simply confirmed, by viewing the speed of the turning rotor. Either port may be used for incoming flow, and bayonet mounting lens is easily removed for quick clean out.

Series	Input Voltage	Flow Range GPM	Body Material	Port NPT	Digi-Key Part No.	Price Each 1	10	100	Gems Part No.
RFS Type SPDT	24VDC	0.5 ~ 5.0	Brass	1/4"	376-1083-ND	189.95	140.25	132.00	156265
	24VDC	4.0 ~ 20.0		1/2"	376-1085-ND	189.95	140.25	132.00	156268
	110VAC	4.0 ~ 20.0		1/2"	376-1086-ND	209.95	154.28	145.20	156269
	110VAC	5.0 ~ 30.0		3/4"	376-1088-ND	214.95	154.28	145.20	180396
RFO Type	4.5-24VDC	5.0 ~ 30.0	Brass	3/4"	376-1095-ND	139.95	102.41	95.70	194761
		8.0 ~ 60.0		1"	376-1096-ND	139.95	102.41	95.70	194762
RFI Type	Visual Indicator	0.5 ~ 5.0	Polypropylene	1/4"	376-1097-ND	37.95	30.31	26.65	155420
		4.0 ~ 20.0	Polypropylene	1/2"	376-1098-ND	37.95	30.31	26.65	155480
		5.0 ~ 30.0	Brass	3/4"	376-1101-ND	89.95	73.64	69.30	180392

NEW! 5-Wire Resistive Touch Screen

The Bergquist 5-Wire Resistive Touch Screens are inherently the most durable resistive touch screens on the market, engineered to withstand high-usage environments. Unlike other resistive technologies that must use two opposing layers to create X- and Y- axis measurements (such as 4-wire and 8-wire technologies), 5-wire sensors utilize a stable glass substrate for both X- and Y- axis measurements.

Features:

- Durability: 35 Million actuations/Drift-free operation at all times
- Accuracy: 98.5% accurate - without external electronic correction
- Actuation: Any finer, glove or stylus
- Optics: Index-matched materials provide 81% light transmission and patented spacer dot design
- Warranty: All 5-wire touch screens come with a 5-year warranty

RoHS COMPLIANT

Size	Outside Dimensions (mm)	Active Area (mm)	Digi-Key Part No	Price Each 1	Price Each 10	Bergquist Part No.
6.4"	153.9 x 126.5	133.0 x 99.3	BER234-ND	96.00	86.40	400265-01
8.4"	196.5 x 196.5	174.0 x 131.4	BER235-ND	114.00	102.60	400273-01
10.4"	231.8 x 182.4	213.0 x 160.4	BER236-ND	126.00	113.40	400302
12.3"	271.3 x 205.7	248.9 x 187.4	BER237-ND	142.00	127.80	400201-02
15.1"	342.9 x 264.4	309.9 x 231.9	BER238-ND	158.00	142.20	400211-02
17.1"	365.4 x 290.2	340.0 x 272.4	BER239-ND	172.00	154.80	400229-03
19.2"	406.3 x 323.4	380.9 x 305.6	BER240-ND	190.00	171.00	400225-01
Controller Touch Screen USB RS232			BER241-ND	46.00	—	500499
6' Cable RS232 for Touch Screen			BER242-ND	14.00	—	400196
6' Cable USB for Touch Screen................			BER243-ND	14.00	—	400199
Power Supply for Touch Screen			BER244-ND	18.00	—	400294
Starter Kit for Touch Screen			BER245-ND	14.00	—	400293

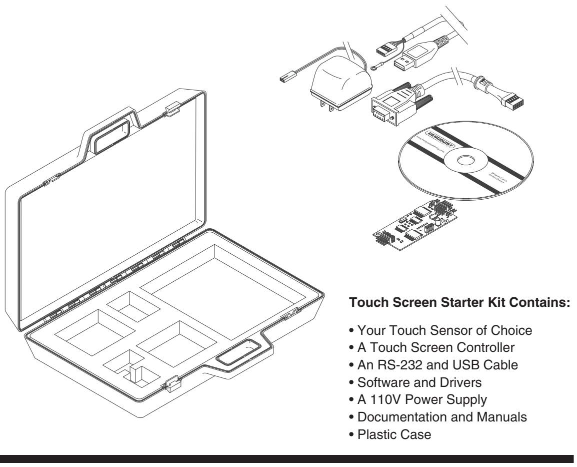

Touch Screen Starter Kit Contains:

- Your Touch Sensor of Choice
- A Touch Screen Controller
- An RS-232 and USB Cable
- Software and Drivers
- A 110V Power Supply
- Documentation and Manuals
- Plastic Case

TFT LCD Displays

Normal Display White

Size (Inch)	Pixel Format *	Outline Dimensions W x H x D (mm)	Brightness (nits)	Contrast Ratio	Vertical Viewing Angle †	Horizontal Viewing Angle	Total Power (typ) (W)	Operating Temperature (°C)	Type	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Sharp Part No.
2.2	176 x 220	42.1 x 56.6 x 4.2	50	60	60/60	60	—	-10° ~ 60°	QVGA	425-2478-ND	114.54	96.60	86.25	LQ022B8UD04
3.0	320 x 320	66.6 x 68.5 x 3.6	100	—	40/50	100	0.35	10° ~ 60°	QVGA	425-2479-ND	152.72	128.80	115.00	LQ030B7DD01
3.5	240 x 320	65.0 x 85.0 x 4.0	100	4/70	90/90	80	0.35	-10° ~ 70°	QVGA	425-2480-ND	238.63	201.25	179.69	LQ035Q7DH01
3.5	240 x 320	65.0 x 85.0 x 3.4	55	15/85	100/100	100	0.35	-10° ~ 60°	QVGA	425-2481-ND	181.36	152.95	136.57	LQ035Q7DB03
3.6	320 x 240	82.8 x 69.7 x 3.3	300	300	130/130	160	0.43	-10° ~ 60°	QVGA	425-2482-ND	162.27	136.85	122.19	LQ036Q1DA01
3.8	240 x 320	69.0 x 88.6 x 3.4	90	8/75	100/100	100	0.52	0° ~ 50°	QVGA	425-2483-ND	209.99	177.10	158.13	LQ038Q7DB03
3.8	320 x 240	117.6 x 69.45 x 13.45	450	100	—	130	3.36	-30° ~ 85°	QVGA	425-2484-ND	314.99	265.65	237.19	LQ038Q5DR01
5.0	320 x 240	119.4 x 89.1 x 12.7	380	—	—	130	4.15	-30° ~ 85°	QVGA	425-2485-ND	353.17	297.85	265.94	LQ050Q5DR01
5.0	320 x 234	126.8 x 89.6 x 16.5	320	60	40/65	130	5.37	-30° ~ 85°	QVGA	425-2486-ND	431.25	380.94	352.19	LQ5AW136
5.7	320 x 240	144.0 x 104.6 x 13.0	350	300:1	—	130	3.88	-10° ~ 70°	QVGA	425-2487-ND	310.50	274.28	253.58	LQ057Q3DC02
6.4	640 x 480	161.3 x 117.0 x 12.0	350	—	40/70	140	4.7	-10° ~ 70°	VGA	425-2488-ND	353.17	297.85	265.94	LQ064V3DG01
8.0	640 x 480	183.0 x 141.0 x 14.0	380	250	65/55	130	6.2	0° ~ 55°	VGA	425-2489-ND	491.63	434.27	401.50	LQ080V3DG01
8.4	640 x 480	216.0 x 152.4 x 12.0	300	250	55/40	110	5.45	0° ~ 55°	VGA	425-2490-ND	526.13	464.75	429.67	LQ084V1DG21
8.4	800 x 600	199.5 x 149.5 x 11.6	350	250	30/65	110	6.02	-10° ~ 65°	SVGA	425-2491-ND	560.63	495.22	457.85	LQ084S3DG01
10.4	640 x 480	246.5 x 179.4 x 14.2	350	300	40/70	140	6.76	-10° ~ 65°	VGA	425-2470-ND	560.63	495.22	457.85	LQ104V1DG51
10.4	640 x 480	246.5 x 179.4 x 10.5	200	300	40/70	140	4.4	0° ~ 50°	VGA	425-2471-ND	517.50	457.13	422.63	LQ10D368
10.4	800 x 600	246.5 x 179.4 x 15.0	350	300	40/70	140	7.8	-10° ~ 65°	SVGA	425-2472-ND	646.88	571.41	528.29	LQ104S1DG21
12.1	800 x 600	276.4 x 209.0 x 11.0	350	300	50/60	140	8.02	-10° ~ 65°	SVGA	425-2473-ND	508.88	449.51	415.59	LQ121S1DG41
12.1	800 x 600	276.0 x 209.0 x 11.0	350	300	50/60	140	8.02	-10° ~ 65°	SVGA	425-2474-ND	508.88	449.51	415.59	LQ121S1LG41
15.0	1024 x 768	331.6 x 254.76 x 12.5	600	350	55/45	120	15.49	0° ~ 60°	XGA	425-2475-ND	517.50	457.13	422.63	LQ150X1LGB1
15.0	1024 x 768	346.0 x 255.0 x 11.0	250	350	55/45	120	10.2	0° ~ 50°	XGA	425-2476-ND	391.35	330.05	294.69	LQ150X1LGN2A
17.0	1280 x 1024	358.5 x 296.5 x 17.0	300	450	65/85	160	19.35	0° ~ 50°	SXGA	425-2477-ND	379.50	335.23	309.93	LQ170E1LG11

* 1 Pixel = R+G+B dots † Vertical Viewing Angle 12 o'clock and 6 o'clock

NEW! LCD Controller Boards and Accessories

Digital View is the leading supplier of advanced interface solutions for the flat panel display market.

Description	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Digital View Part No.
Controller Boards					
Controller Board for TFT LCD / Displays 6.4" - 17"	586-1004-ND	432.25	—	—	4165100-XX
Controller Board for SVGA TFT LCD / Displays 6.4"- 15"	586-1005-ND	133.00	—	—	4167201-XX
Controller Board for VGA TFT LCD / Displays 6.4" - 15"	586-1000-ND	133.00	—	—	4167202-XX
Controller Board for LVDS TFT LCD / Displays 6.4" - 17"	586-1006-ND	166.25	—	—	4169300-XX
AL-1280 VGA-SXGA LVDS Controller	586-1012-NDΔ	166.25	—	—	4169300XX-3
Accessories					
Add-on Board for LVDS Displays	586-1001-ND	61.18	—	—	4162122-01
Add-on Board for LVDS Displays	586-1002-ND	61.18	—	—	4162135-XX
4-Way Inverter Cable	586-1007-NDΔ	10.00	7.50	6.25	426040200
5-Way inverter Cable	586-1008-NDΔ	10.00	7.50	6.25	426058300
Cable for Controller ACG-1024 (4167202-xx)	586-1009-NDΔ	44.00	33.00	27.50	426311200
Cable for Controller ACG-1024 (4167201-xx)	586-1010-NDΔ	44.00	33.00	27.50	426311600
LVDS Cable for Controller AL-1280 (4169300-xx)	586-1011-NDΔ	28.00	21.00	17.50	426472600
LVDS Cable for Controller AL-1280 (4169300-xx)	586-1013-NDΔ	46.00	34.50	28.75	426473000
LVDS Cable	586-1014-NDΔ	28.00	21.00	17.50	426474300
Kits					
OSD Board Kit with Cable ACG/AVP/SVP/SV	586-1015-ND	46.00	34.50	28.75	KIT 60109

Δ RoHS Compliant

LCD Total Solution Provider
www.optrex.com

Industrial TFT LCDs

Optrex manufactures the industry's widest range of digital TFT LCDs for a broad array of non-PC industrial applications. These rugged, high-performance modules deliver best-in-class front-of-screen performance for high-resolution color display of images from static to full-motion video.

Features Include:

- Wide operating temperature ranges
- Wide viewing angles
- Powerful backlights
- High contrast
- High brightness
- Excellent color saturation
- VGA, SVGA and XGA formats

Description	Digi-Key Part No.
6.5" VGA TTL	73-1243-ND
8.4" VGA TTL	73-1226-ND
8.4" XGA LVDS	73-1227-ND
10.4" VGA TTL	73-1228-ND
12.1" SVGA TTL	73-1229-ND
12.1" XGA LVDS	73-1244-ND
12.1" SVGA LVDS	73-1245-ND
15.0" XGA TTL	73-1230-ND

Optrex TFT LCDs can also be provided with the latest technological advancements for enhanced performance, including:

- Anti-Reflection surface treatments
- LVDS interfaces
- Ultra-Wide Viewing (UWV) angles
- Natural Color Matrix (NCM) technology

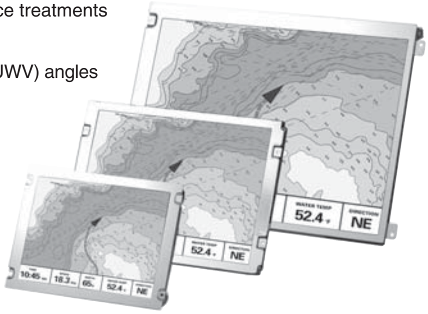

TFT LCD ToolKITs™

Optrex's LCD ToolKITs™ save engineering and procurement time by providing everything you need to put the LCD into operation – right out of the box.

Kits Include:

- TFT panel
- Controller board with on-screen display (OSD) board
- Inverter board and power cable
- 12V DC power supply with AC line cord
- VGA (analog RGB) cable
- Video input cable
- CD-ROM with Quick Set-Up and documentation

Description	Digi-Key Part No.
8.4" VGA ToolKIT	73-1246-ND
8.4" XGA ToolKIT	73-1247-ND
10.4" VGA ToolKIT	73-1224-ND
15.0" XGA ToolKIT	73-1223-ND

Color and Monochrome Graphic LCDs

Optrex's range of CSTN passive matrix LCDs provide clear, sharp display of color graphics in all kinds of lighting conditions. They're ideal for applications requiring a small to mid-size display that provides quality color at an economical cost.

Features include:

- Slim, compact, lightweight design
- High legibility in all ambient light conditions
- Fast response times
- Multiple backlighting options available

Optrex STN passive matrix monochrome graphic LCDs offer a wide range of sizes and display formats.

Features include:

- Wide variety of color/background combinations
- High brightness, high contrast
- Low power consumption
- LED or CCFL backlight options
- Transmissive, reflective or transflective types available

See following page for part numbers and specifications.

Character LCDs

Optrex manufactures a broad range of monochrome character LCDs in a wide variety of dot pixel formats and color/background combinations.

They provide:

- Industry-standard configurations
- High contrast
- Wide operating temperature ranges
- Low operating current, with more luminance per watt
- Positive (transflective) and negative (transmissive) options
- Superior legibility via Optrex's High Performance Color (HPC) technology

See following page for part numbers and specifications.

TFT LCD Modules

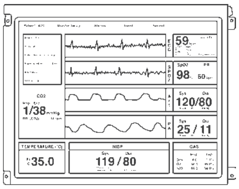

Size (Inch)	Dot Format	Dimension W x H x D (mm)	Inter-face	Lum-inance	Contrast Ratio	Vertical Viewing Angle	Horiz. Viewing Angle	Power Con-sumption	Oper. Temp. (°C)	Digi-Key Part No.	Price Each 1	Price Each 100	Optrex Part No.
6.5	640 x RGB x 480	158 x 120.36 x 11.55	TTL	400	300:1	-60/30	±55	4.8W	0 ~ 60	73-1243-ND	268.50	220.32	T-51750GD065J-FW-AA
8.4	640 x RGB x 480	199.5 x 149 x 11.5	TTL	450	450:1	-60/50	±65	6.6W	0 ~ 50	73-1226-ND	341.29	280.04	T-51638D084-FW-A-AA
8.4	1024 x RGB x 768	205 x 152.4 x 11.3	LVDS	300	400:1	-40/50	±60	6.6W	-20 ~ 70	73-1276-ND*	464.10	389.03	T-51639D084JU-FW-A-AB
10.4	640 x RGB x 480	243 x 181.6 x 12.2	TTL	430	500:1	-45/55	±60	6.8W	-20 ~ 70	73-1228-ND	398.18	326.73	T-51513D104JU-FW-A-AC
10.4	800 x RGB x 600	243 x 181.6 x 12.2	LVDS	400	500:1	-60/50	±70	7.0W	-20 ~ 70	73-1280-ND*	378.16	316.99	T-51944D104J-FW-A-AA
12.1	800 x RGB x 600	280 x 210 x 12	TTL	400	500:1	-50/40	±60	7.6W	-20 ~ 70	73-1229-ND	356.81	292.78	T-51512D121J-FW-A-AB
12.1	1024 x RGB x 768	280 x 210 x 12	LVDS	320	550:1	-50/40	±60	8.0W	-20 ~ 70	73-1244-ND	446.91	374.62	T-51756D121J-FW-A-AA
12.1	800 x RGB x 600	280 x 210 x 12	LVDS	350	500:1	-75/45	±65	7.5W	-20 ~ 70	73-1245-ND*	416.27	341.57	T-51866D121J-FW-A-AA
15.0	1024 x RGB x 768	326 x 255 x 15.5	TTL	300	450:1	-60/50	±75	16.3W	0 ~ 50	73-1230-ND	353.60	296.40	T-51511D150-FW-A-AC
15.0	1024 x RGB x 768	326 x 255 x 15.9	LVDS	250	450:1	-60/50	±75	9.4W	-20 ~ 70	73-1277-ND*	455.11	381.49	T-51863D150J-FW-A-AA
15.0	1024 x RGB x 768	326 x 255 x 15.9	LVDS	450	450:1	-60/50	±75	17.5W	-20 ~ 70	73-1278-ND*	488.32	409.33	T-51863D150J-FW-A-AE
15.0	1024 x RGB x 768	326 x 255 x 15.9	LVDS	400	350:1	-80/70	±85	17.5W	-20 ~ 70	73-1279-ND*	576.01	482.84	T-51863D150J-FW-A-AD

* Natural Color Matrix (NCM) Technology

TFT LCD ToolKITS™

ToolKITS Include: • TFT Panel • Controller Board • Backlight Inverter • Inverter Cable • Power Supply • VGA Cable • Video Input Cable • CD-ROM

Note: *ToolKITS support VGA, composite video, and S-video interfaces*

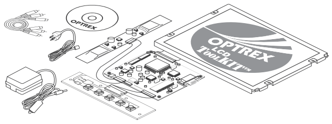

Description	Digi-Key Part No.	Price Each	Optrex Part No.
8.4" XGA LCD ToolKIT	73-1281-ND	834.92	TK084X01
8.4" VGA LCD ToolKIT	73-1319-ND ***NEW!***	766.27	TK084V01
10.4" VGA LCD ToolKIT...............	73-1282-ND	720.85	TK104V01
15.0" XGA LCD ToolKIT...............	73-1283-ND	853.04	TK150X03

Graphic LCD Modules

The Graphic LCD Modules come in a wide variety of sizes and formats that will satisfy virtually any application.

They range from monochrome to full color (RGB) display modules.

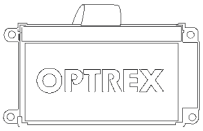

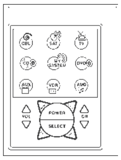

Size	LCD Mode	Dot Format	Dot Pitch (mm)	Outline Dim. W x H x D (mm)	Viewing Area	Backlight	Lum-inance	Contrast Ratio	Operating Temp. (°C)	Digi-Key Part No.	Price Each 1	Price Each 100	Optrex Part No.
Color Transmissive Graphic Displays													
3.8	Color	240 x RGB x 320	.24 x .24	73 x 94.4 x 7.3	59 x 80.3	CCFL	70	40:1	0 ~ 50	73-1238-ND	110.38	81.56	F-51373GNC-FW-AH
3.8	Color	240 x RGB x 320	.24 x .24	73 x 94.4 x 7.3	59 x 80.3	CCFL	70	40:1	0 ~ 50	73-1312-NDΔ ***NEW!***	121.12	89.72	F-51373GNC-FW-ATN
3.8	Color	240 x RGB x 320	.24 x .24	73 x 94.4 x 7.3	59 x 80.3	LED	40	40:1	0 ~ 50	73-1313-NDΔ ***NEW!***	118.03	87.21	F-51373GNC-LW-AUN
5.7	Color	320 x 240	.12 x .36	167.1 x 109 x 8	122 x 92	CCFL	120	40:1	0 ~ 50	73-1215-ND	180.08	133.39	F-51167NCU-FW-AA
5.7	Color	320 x RGB x 240	.36 x .36	168 x 111 x 9.4	120 x 90	CCFL	100	25:1	0 ~ 50	73-1318-NDΔ ***NEW!***	148.12	109.45	F-51900NCU-FW-ACN
Monochrome Transmissive Graphic Displays													
2.8	Blue/White	128 x 64	.48 x .48	89.7 x 49.8 x 6	66.8 x 35.5	LED(Blue/White)	100	6:1	0 ~ 50	73-1219-ND	32.10	23.78	F-51320GNB-LW-AB
2.8	Blue/White	128 x 64	.48 x .48	89.7 x 49.8 x 6	66.8 x 35.5	LED(Blue/White)	100	6:1	0 ~ 50	73-1285-NDΔ ***NEW!***	28.46	21.03	F-51320GNB-LW-AEN
2.8	Blue/White	128 x 64	.50 x .50	89.7 x 49.8 x 6	66.8 x 35.5	White LED	100	8:1	-20 ~ 70	73-1284-NDΔ ***NEW!***	19.26	18.30	F-51553GNBJ-LW-AEN
2.8	Yellow/Dark Blue	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	66.8 x 35.5	LED(Yellow)	60	4.5:1	0 ~ 50	73-1311-NDΔ ***NEW!***	31.23	23.13	F-51320GNY-LY-AFN
2.8	Black/Blue	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	69 x 36.5	Blue LED	100	60:1	-20 ~ 70	73-1269-NDΔ	38.25	28.27	F-51852GNFQJ-LB-ABN
2.8	Black/Green	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	69 x 36.5	Green LED	100	60:1	-20 ~ 70	73-1270-NDΔ	24.09	22.89	F-51852GNFQJ-LG-ACN
2.8	Black/Yellow	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	69 x 36.5	Yellow LED	100	60:1	-20 ~ 70	73-1272-NDΔ	24.09	22.89	F-51852GNFQJ-LY-ADN
2.8	Black/Red	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	69 x 36.5	Red LED	100	60:1	-20 ~ 70	73-1271-NDΔ	38.25	28.27	F-51852GNFQJ-LR-AGN
2.8	Black/White	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	69 x 36.5	White LED	100	60:1	-30 ~ 80	73-1268-NDΔ	41.98	31.10	F-51852GNFQH-LW-AFN
4.7	Neutral/Blue	320 x 240	.30 x .30	129.4 x 94 x 10	99.9 x 77	CCFL	400	4.5:1	0 ~ 50	73-1234-ND	93.40	69.18	F-51477GNB-FW-AD
4.7	Neutral/Blue	320 x 240	.30 x .30	129.4 x 94 x 10	99.9 x 77	CCFL	400	4.5:1	0 ~ 50	73-1316-NDΔ ***NEW!***	93.41	69.19	F-51477GNB-FW-AJN
4.7	Black/White	320 x 240	.30 x .30	129.4 x 94 x 10	99.9 x 77	CCFL	280	20:1	0 ~ 50	73-1261-ND	108.95	80.51	F-51477GNF-LW-AG
4.7	Black/White	320 x 240	.30 x .30	129.4 x 94 x 10	99.9 x 77	CCFL	280	20:1	0 ~ 50	73-1317-NDΔ ***NEW!***	119.55	88.56	F-51477GNF-LW-ANN
5.2	Yellow/Dark Blue	240 x 64	.53 x .53	180 x 65 x 17.6	132 x 39	LED	45	7:1	0 ~ 50	73-1157-ND	76.32	56.40	DMF-5005NY-LY-AKE
5.2	Yellow/Dark Blue	240 x 64	.53 x .53	180 x 65 x 17.6	132 x 39	LED	45	7:1	0 ~ 50	73-1305-NDΔ ***NEW!***	83.74	62.03	DMF-5005NY-LY-CNE-DCN
5.2	Blue/White	240 x 64	.53 x .53	149.5 x 51.7 x 9.8	130.2 x 36.7	LED	400*	5:1	0 ~ 50	73-1231-ND	81.40	60.15	F-51405GNB-LW-AJ
5.2	Blue/White	240 x 64	.53 x .53	149.5 x 51.7 x 9.8	130.2 x 36.7	LED	400*	5:1	0 ~ 50	73-1314-NDΔ ***NEW!***	89.32	66.16	F-51405GNB-LW-ANN
5.2	Blue/White	240 x 64	.53 x .53	200 x 66 x 23	132 x 39	CCFL	400	7:1	0 ~ 50	73-1132-ND	147.50	109.26	DMF-5010NBU-FW-BD
5.2	Blue/White	240 x 64	.53 x .53	200 x 66 x 23	132 x 39	CCFL	400	7:1	0 ~ 50	73-1306-NDΔ ***NEW!***	147.50	109.26	DMF-5010NBU-FW-BGN
5.2	Black/White	240 x 64	.53 x .53	135.2 x 51.7 x 9.8	130.2 x 37.6	White LED	100	60:1	-20 ~ 70	73-1265-NDΔ	76.73	56.70	F-51851GNFQJ-LW-AAN
5.2	Black/Blue	240 x 64	.53 x .53	135.2 x 51.7 x 9.8	130.2 x 37.6	Blue LED	100	60:1	-20 ~ 70	73-1263-NDΔ	84.19	62.37	F-51851GNFQJ-LB-ABN
5.2	Black/Green	240 x 64	.53 x .53	135.2 x 51.7 x 9.8	130.2 x 37.6	Green LED	100	60:1	-20 ~ 70	73-1264-NDΔ	76.73	56.70	F-51851GNFQJ-LG-ACN
5.2	Black/Yellow	240 x 64	.53 x .53	135.2 x 51.7 x 9.8	130.2 x 37.6	Yellow LED	100	60:1	-20 ~ 70	73-1266-NDΔ	76.73	56.70	F-51851GNFQJ-LY-ADN
5.4	Blue/White	240 x 128	.50 x .50	170 x 95 x 16.7	126 x 70	LED(Yellow/Green)	40	6:1	0 ~ 50	73-1199-ND	181.14	134.18	DMF-50773NF-SLY
5.4	Blue/White	240 x 128	.50 x .50	170 x 95 x 16.7	126 x 70	LED(Yellow/Green)	40	6:1	0 ~ 50	73-1307-NDΔ ***NEW!***	181.14	134.18	DMF-50773NF-SLY-AKN
5.7	Blue/White	320 x 240	.36 x .36	167.1 x 109 x 11	120 x 90	CCFL	60	5:1	0 ~ 60	73-1308-NDΔ ***NEW!***	86.28	63.92	DMF-50840NB-FW-ASE-BFN
5.7	Black/White	320 x 240	.36 x .36	167.1 x 109 x 11	120 x 90	CCFL	50	15:1	0 ~ 60	73-1194-ND	104.24	77.22	DMF-50840NF-FW-ABE-AU
5.7	Black/White	320 x 240	.36 x .36	167.1 x 109 x 11	120 x 90	CCFL	50	15:1	0 ~ 60	73-1309-NDΔ ***NEW!***	104.24	77.22	DMF-50840NF-FW-AUE-BIN
9.4	Black/White	640 x 480	.30 x .30	260 x 174 x 8.5	196 x 148	CCFL	110	14:1	0 ~ 50	73-1237-ND	362.29	268.36	F-51430NFU-FW-AA
9.4	Black/White	640 x 480	.30 x .30	260 x 174 x 8.5	196 x 148	CCFL	110	14:1	0 ~ 50	73-1315-NDΔ ***NEW!***	262.69	215.55	F-51430NFU-FW-AEN
Monochrome Transflective Graphic Displays													
2.8	Black/Winter White	128 x 64	.50 x .50	89.7 x 49.8 x 11.8	69 x 36.5	LED	40	4.5:1	-20 ~ 70	73-1267-NDΔ‡	31.85	23.66	F-51852GNFJ-SLW-AEN
4.7	Black/White	320 x 240	.30 x .30	129.4 x 94 x 10	99.9 x 77	CCFL	200	3.5:1	-10 ~ 60	73-1233-ND	98.48	72.95	F-51477GNFJ-SFW-AB
4.7	Black/Winter White	160 x 128	.58 x .58	129 x 102 x 13.5	108.6 x 82.55	LED	40	4.5:1	-20 ~ 70	73-1273-NDΔ‡	116.90	86.60	F-51854GNFJ-SLW-ABN
5.2	Black/Winter White	240 x 64	.53 x .53	135.2 x 51.7 x 9.8	130.2 x 37.6	LED	40	4.5:1	-20 ~ 70	73-1262-NDΔ‡	80.37	59.52	F-51851GNFJ-SLW-AEN
Inverters for CCFL Backlighting (Converts 12VDC ~ 900VAC 30KHz)													
Inverter for use with CCFL Backlit Graphic Modules										289-1036-ND	25.76	—	BXA-12565-6M
Inverter for use with CCFL Backlit Graphic Modules										289-1027-ND	15.12	—	BXA-24529

* At backlight surface Δ ***RoHS Compliant*** ‡ Highly reflective background

OPTREX Character LCD Modules

FEATURES: • Interface with 8-bit or 4-bit MPU is available • 192 kinds of characters, numerals, symbols and special characters can be displayed by built-in character generator (ROM) • Other preferred characters can be displayed by character generator (RAM) • Various functions of instruction are available by programming: clear display, cursor at home, on/off cursor, blink character, shift display, shift cursor, read/write display data, etc. • Compact and lightweight design • Low power consumption

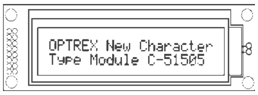

Dot Format	LCD Mode	Character Format	Outline Dimension W x H x D (mm)	Viewing Area	Backlight	Luminance ‡	Contrast Ratio	Operating Temperature (°C)	Digi-Key Part No.	Price Each 1	Price Each 100	Optrex Part No.
Super-Twisted Nematic (STN) LCD Modules												
8 x 2	Clear/Reflective	5 x 8	40 x 35.4 x 8.2	30.4 x 13.9	No	—	7:1	0 ~ 50	73-1106-ND	8.66	6.46	DMC-50448N-E-AE
16 x 4	Neutral/Blue	5 x 8	87 x 60 x 11	61.8 x 25.2	No	—	4.5:1	0 ~ 50	73-1083-ND	36.23	26.83	DMC-16433N
16 x 4	Neutral/Blue	5 x 8	87 x 60 x 11	61.8 x 25.2	No	—	4.5:1	0 ~ 50	73-1298-NDΔ ***NEW!***	36.25	26.85	DMC-16433N-BON
Super-Twisted Nematic (STN) LCD Modules with LED Backlighting												
16 x 1	Yellow/Dark Blue	5 x 8	80 x 36 x 15	64.5 x 13	Yellow LED	80	8:1	0 ~ 50	73-1018-ND	23.25	17.24	DMC-16105NY-LY
16 x 1	Yellow/Dark Blue	5 x 8	80 x 36 x 15	64.5 x 13	Yellow LED	80	8:1	0 ~ 50	73-1292-NDΔ ***NEW!***	24.85	18.41	DMC-16105NY-LY-ANN
16 x 2	Yellow/Dark Blue	5 x 8	80 x 40 x 16.1	59.5 x 16	Yellow LED	35	8:1	0 ~ 50	73-1034-ND*	22.01	16.31	DMC-16204NY-LY
16 x 2	Yellow/Dark Blue	5 x 8	80 x 40 x 16.1	59.5 x 16	Yellow LED	35	8:1	0 ~ 50	73-1294-NDΔ ***NEW!***	20.05	14.82	DMC-16204NY-LY-BBN
16 x 2	Yellow/Dark Blue	5 x 8	88 x 34 x 16.1	59.5 x 16	Yellow LED	35	8:1	0 ~ 50	73-1287-ND	22.01	16.31	DMC-16205NY-LY-BGN
16 x 2	Yellow/Dark Blue	5 x 7 + cursor	122 x 44 x 14.6	99 x 24	Yellow LED	70	8:1	0 ~ 50	73-1051-ND	26.23	19.43	DMC-16230NY-LY-AVE
16 x 2	Yellow/Dark Blue	5 x 7 + cursor	122 x 44 x 14.6	99 x 24	Yellow LED	70	8:1	0 ~ 50	73-1296-NDΔ ***NEW!***	23.90	17.67	DMC-16230NY-LY-DQE-EDN
20 x 4	Yellow/Dark Blue	5 x 8	98.5 x 61 x 15.6	76 x 25.2	Yellow LED	60	8:1	0 ~ 50	73-1300-NDΔ ***NEW!***	33.20	24.59	DMC-20481NY-LY-AZE-BJN
Transmissive Character Displays												
16 x 2	Yellow/Dark Blue	5 x 8	84 x 45 x 15.1	61 x 16	Yellow LED	55	10:1	0 ~ 50	73-1293-NDΔ ***NEW!***	17.91	13.26	DMC-16202NY-LY-AZE-BJN
16 x 2	Yellow/Dark Blue	5 x 7	122 x 44 x 14.6	99 x 24	Yellow LED	60	12:1	0 ~ 50	73-1052-ND	25.15	18.59	DMC-16230NY-LY-BQE-DZ
16 x 2	Yellow/Dark Blue	5 x 7	122 x 44 x 14.6	99 x 24	Yellow LED	60	12:1	0 ~ 50	73-1297-NDΔ ***NEW!***	27.60	20.45	DMC-16230NY-LY-DZE-EEN
16 x 2	Black/White	5 x 8	122 x 44 x 14.6	99.6 x 24.5	White LED	70	60:1	-20 ~ 70	73-1254-NDΔ	32.79	24.17	C-51848NFQJ-LW-AAN
16 x 2	Black/Green	5 x 8	122 x 44 x 14.6	99.6 x 24.5	Green LED	70	60:1	-20 ~ 70	73-1253-NDΔ	32.79	24.17	C-51848NFQJ-LG-ACN
20 x 2	Yellow/Dark Blue	5 x 8	116 x 37 x 15.7	83 x 18.6	Yellow LED	40	12:1	0 ~ 50	73-1057-ND	23.25	17.23	DMC-20261NY-LY-AXE
20 x 2	Yellow/Dark Blue	5 x 8	116 x 37 x 15.7	83 x 18.6	Yellow LED	40	12:1	0 ~ 50	73-1286-NDΔ ***NEW!***	22.59	16.74	DMC-20261NY-LY-CCE-CMN
20 x 2	Yellow/Dark Blue	5 x 8	116 x 37 x 15.7	83 x 18.6	Yellow LED	40	5:1	-20 ~ 70	73-1299-NDΔ ***NEW!***	22.59	16.74	DMC-20261NYJ-CDE-CKN
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	White LED	125	80:1	-20 ~ 70	73-1291-NDΔ ***NEW!***	26.09	19.33	C-51505NFQJ-LW-ALN
20 x 2	Neutral/Blue	5 x 8	116 x 37 x 15.6	83 x 18.6	Blue LED	38	80:1	-20 ~ 70	73-1241-NDΔ	25.65	19.00	C-51505NFQJ-LB-AE
20 x 2	Neutral/Blue	5 x 8	116 x 37 x 15.6	83 x 18.6	Blue LED	38	80:1	-20 ~ 70	73-1289-NDΔ ***NEW!***	25.65	19.00	C-51505NFQJ-LB-AJN
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	Green LED	160	80:1	-20 ~ 70	73-1242-NDΔ	25.65	19.00	C-51505NFQJ-LG-AF
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	Green LED	160	80:1	-20 ~ 70	73-1290-NDΔ ***NEW!***	25.66	19.00	C-51505NFQJ-LG-AKN
20 x 4	Yellow/Dark Blue	5 x 8	98.5 x 61 x 15.6	76 x 25.2	Yellow LED	60	12:1	0 ~ 50	73-1301-NDΔ ***NEW!***	33.25	24.63	DMC-20481NY-LY-BAE-BKN
20 x 4	Black/White	5 x 8	98.5 x 61 x 15.6	76 x 25.2	White LED	70	60:1	-20 ~ 70	73-1251-NDΔ	36.21	26.69	C-51847NFQJ-LW-AAN
20 x 4	Black/Green	5 x 8	98.5 x 61 x 15.6	76 x 25.2	Green LED	70	60:1	-20 ~ 70	73-1250-NDΔ	36.21	26.69	C-51847NFQJ-LG-ACN
40 x 2	Yellow/Dark Blue	5 x 8	182 x 34.5 x 15.1	147.5 x 11.5	Yellow LED	55	12:1	0 ~ 50	73-1179-ND	41.96	31.08	DMC-40202NY-LY-AFE
40 x 2	Yellow/Dark Blue	5 x 8	182 x 34.5 x 15.1	147.5 x 11.5	Yellow LED	55	12:1	0 ~ 50	73-1302-NDΔ ***NEW!***	41.93	31.06	DMC-40202NY-LY-ARE-AZN
40 x 2	Black/White	5 x 8	182 x 34.5 x 15.1	153.5 x 17.5	White LED	70	60:1	-20 ~ 70	73-1260-NDΔ	45.71	33.69	C-51850NFQJ-LW-AAN
40 x 2	Black/Green	5 x 8	182 x 34.5 x 15.1	153.5 x 17.5	Green LED	70	60:1	-20 ~ 70	73-1259-NDΔ	45.71	33.69	C-51850NFQJ-LG-ACN
40 x 4	Black/White	5 x 8	190 x 54 x 14.6	147 x 29.5	White LED	70	60:1	-20 ~ 70	73-1257-NDΔ	67.98	64.59	C-51849NFQJ-LW-AAN
40 x 4	Black/Green	5 x 8	190 x 54 x 14.6	147 x 29.5	Green LED	70	60:1	-20 ~ 70	73-1256-NDΔ	102.26	75.35	C-51849NFQJ-LG-ACN
40 x 4	Yellow/Dark Blue	5 x 8	190 x 54 x 13.6	147 x 29.5	Yellow LED	50	5:1	0 ~ 50	73-1101-ND	86.37	63.99	DMC-40457NY-LY-B
40 x 4	Yellow/Dark Blue	5 x 8	190 x 54 x 13.6	147 x 29.5	Yellow LED	50	5:1	0 ~ 50	73-1303-NDΔ ***NEW!***	98.33	72.85	DMC-40457NY-LY-B-CKN
Transflective Character Display												
16 x 2	Winter White/Black	5 x 8	122 x 44 x 14.6	99.6 x 24.5	LED	40	5:1	-20 ~ 70	73-1252-ND◊Δ	28.71	21.16	C-51848NFJ-SLW-ADN
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	White LED	125	5:1	-20 ~ 70	73-1248-NDΔ	20.73	15.35	C-51505NFJ-SLW-AC
20 x 2	Black/White	5 x 8	116 x 37 x 15.6	83 x 18.6	White LED	125	5:1	-20 ~ 70	73-1288-NDΔ ***NEW!***	22.73	16.83	C-51505NFJ-SLW-AIN
20 x 4	Winter White/Black	5 x 8	98.5 x 61 x 15.6	76 x 25.2	LED	40	5:1	-20 ~ 70	73-1249-ND◊Δ	34.56	25.47	C-51847NFJ-SLW-ADN
40 x 2	Winter White/Black	5 x 8	182 x 34.5 x 15.1	153.5 x 17.5	LED	40	5:1	-20 ~ 70	73-1258-ND◊Δ	43.62	32.15	C-51850NFJ-SLW-ADN
40 x 4	Winter White/Black	5 x 8	190 x 54 x 14.6	147 x 29.5	LED	40	5:1	-20 ~ 70	73-1255-ND◊Δ	99.43	73.27	C-51848NFJ-SLW-ADN

‡ Luminance measured at backlight surface   * Pin to Pin spacing = 2.0mm   Δ **RoHS Compliant**   ◊ Highly reflective background

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OSRAM Opto Semiconductors OLED Display

OLED DISPLAY: • Graphics display matrix • Single Color with 1-bit or 4-bit per pixel grayscale • True emissive technology • 160° viewing angle • Passive matrix driven by an industry standard Compatible IC • Fast response, video frame rate capable • High contrast • Wide operating temperature range • Thin Profile • Color: Yellow (X = .455; Y = .540) • Lifetime 10,000 hours @ 25°C • Contrast Ratio 100:1 • Temperature Range: -30°C ~ 7 0°C

PICTIVA EVALUATION KIT CONTENTS:

- **OLED:** OSRAM Pictiva Display Format OLED display module *http://www.pictiva.com/pdf/datasheet-128x64.pdf*
- **CD-ROM:** Windows compatible OSRAM CD ROM disk
- **PC Board:** OSRAM OLED display Evaluation Board
- **Cable:** USB Device (A to B) Communications Cable
- **Power Supply:** Power adapter (9VDC@1A / 85 ~ 260VAC, 50 ~ 60Hz)

Fig. 1

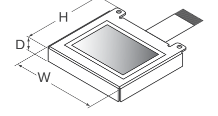

Fig. 2

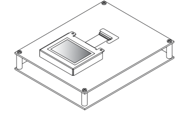

Fig.	Display Format	Active Area W x H (mm)	Module Size W x H x D (mm)	Luminance cd/m^2 (typ.)	Display Interface	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Osram Part No.
1	96 x 64	25.4 x 16.9	34.75 x 32.89 x 3.82	100	Parallel	475-1122-ND	15.86	12.69	11.50	OS096064PK12MY0A00
					Serial	475-1123-ND	15.86	12.69	11.50	OS096064PK12MY0A01
	128 x 64	36.46 x 18.22	47.75 x 30.48 x 3.98	100	Parallel	475-1124-ND	20.90	16.72	15.16	OS128064PK16MY0A00
					Serial	475-1125-ND	20.90	16.72	15.16	OS128064PK16MY0A01
	128 x 64	22.75 x 11.36	30.0 x 20.0 x 1.7	100	Parallel/Serial	475-1231-ND*† Δ ***NEW!***	10.98	8.79	7.96	OS128064PN10M02B10
						475-1232-ND*Δ ***NEW!***	11.84	9.47	8.58	OS128064PK10M02B10
2	Pictiva Evaluation Kit					475-1121-ND	625.00/1			OE128064PK16MY0A00

Δ ***RoHS Compliant***   † 1- Bit   *Orange

Panasonic® Piezoelectric Transformer

Designed for back light inverter of LCD displays of portable electronic equipment such as portable PCs where space saving light weight and low power consumption and safety are essential. **Features:** • Thin design and high transfer efficiency (Efficiency 93%) • Lower EMI radiations thanks to the unique piezoelectric inverter system • Ceramic material used for safety **Recommended Applications:** • Back light inverter for LCD • High voltage supply

EFT-U14R0M03A:

Electrical Specifications Test Conditions: 4.0W; Load 95kΩ:

- Resonant Frequency (fr): 53.6kHz ±1kHz at the maximum output voltage
- Voltage step-up Ratio (A): 61 ±10% resonant frequency
- Efficiency: 88% minimum at the resonant frequency

Test Conditions: 1kHz; 1Vrms • Static Input Capacitance: 124nF ±15%

EFT-U16R5M01A:

Electrical Specifications: Test Conditions: 6.5W; Load 95kΩ:

- Resonant Frequency (fr): 53.6kHz ±1kHz at the maximum output voltage
- Voltage step-up Ratio (A): 61 ±10% resonant frequency
- Efficiency: 88% minimum at the resonant frequency

Test Conditions: 1kHz; 1Vrms • Static Input Capacitance: 188nF ±15%

Fig.	Input Power Max. (W)	Input Voltage Max. (Vpp)	Input Current Max. (mArms)	Output Voltage Max. (V0-p)	Output Current Max. (mArms)	Temperature Rise Maximum	Operating Temperature (No Condensation)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Panasonic Part No.
1	4	55	600	2300	7.0	25°	-10°C ~ 60°C	P6001-ND	7.60	6.08	5.32	EFT-U14R0M03A
2	6.5	55	800	2500	8.0	30°	-10°C ~ 60°C	P6002-ND	8.20	6.56	5.74	EFT-U16R5M01A

Fig. 1

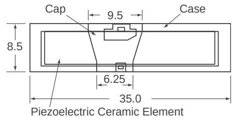

Fig. 2

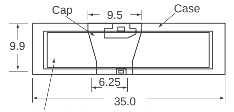

Dim. in mm

TDK

DC-AC Inverters for CCFL

Input Volts	Output (Type) Volts (V)	Output (Type) I (mA)	Inverter Characteristics	Board Dim. (mm) H (Max.) x W x L	Mating Connector CN1	Contacts CN1	Mating Connector CN2	Contacts CN2	Mating Connector CN3	Contacts CN3	Digi-Key Part No.	Price Each 1	10	50	TDK Part No.
Dimming Function															
4.5 ~ 6	1,500	6	4W, Single	8 x 20 x 95.5	*None Required*	*None Required*	455-1123	455-1124-1	—	—	445-1617-ND	27.43	24.82	20.90	CXA-L0605-VJL
5 ~ 12	900	5	2W, Single	6 x 16.5 x 87	WM1723	WM1142CT	455-1123	455-1124-1	—	—	445-1612-ND	25.02	22.64	19.07	CXA-K0505-VJL
10.8 ~ 13.2	1,250	5	8W, Dual	8.5 x 25 x 105	WM1726	WM1142CT	455-1123	455-1124-1	—	—	445-1609-ND	32.89	29.76	25.06	CXA-0308
10.8 ~ 13.2	1,250	5	8W, Dual	8.5 x 25 x 105	WM1726	WM1142CT	455-1123	455-1124-1	—	—	445-1611-ND	32.89	29.76	25.06	CXA-0338
9 ~ 19	1,300	5	5W, Dual	8 x 30 x 103	WM1726	WM1142CT	455-1123	455-1124-1	—	—	445-1610-ND	35.85	32.44	27.32	CXA-0326
8 ~ 20	1,500	5.5	7W, Dual	8 x 25.3 x 180.3	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1626-ND	78.52	71.05	59.83	CXA-M1112-VJ
10 ~ 15	1,500	6	4W, Single	8 x 20 x 95.5	WM1723	WM1142CT	455-1123	455-1124-1	—	—	445-1618-ND	23.82	21.56	18.15	CXA-L0612-VJL
10.8 ~ 13.2	1,500	6	5W, Dual	8 x 30 x 140	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1608-ND	38.13	34.50	29.06	CXA-0271
9.6 ~ 14.4	1,500	6	5W, Dual	8 x 18 x 140.5	WM1723	WM1142CT	455-1123	455-1124-1	455-1123	455-1124-1	445-1627-ND	37.77	34.18	28.78	CXA-M1212-RJL
9.6 ~ 14.4	1,500	6	7W, Dual	8 x 25.3 x 180.3	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1633-ND	44.01	39.82	33.54	CXA-P1212-VJL
9.6 ~ 15	1,600	6	3W, Single	6 x 12 x 105.5	WM1727	WM1142CT	—	—	—	—	445-1613-ND	27.43	24.82	20.90	CXA-K0612-VSL
9.6 ~ 15	1,600	7	5W, Single	8 x 20 x 95.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1620-ND	28.85	26.11	21.99	CXA-L0712-VJL
9.6 ~ 14.4	1,800	6	5W, Single	8 x 20 x 95.5	WM1723	WM1142CT	455-1123	455-1124-1	—	—	445-1619-ND	32.01	28.97	24.39	CXA-L0612A-VJL
10.8 ~ 13.2	1,700	6	8W, Dual	10 x 24 x 147	WM1725	WM1142CT	BHR-04VS-1	455-1124-1	BHR-04VS-1	455-1124-1	445-1634-ND	36.12	32.68	27.52	CXA-P1212A-WJL
10.8 ~ 13.2	1,700	6	8W, Dual	8.5 x 21.5 x 153	WM1725	WM1142CT	455-1123	455-1124-1	455-1123	455-1124-1	445-1635-ND	45.99	41.61	35.04	CXA-P1212B-WJL
10.8 ~ 13.2	1.6K	8	9W, Dual	8 x 25 x 180	455-1163	455-1127-1	455-1123	455-1124-1	—	—	445-1636-ND	51.72	46.80	39.41	CXA-P1612-VJL
Non-Dimming Function															
5	1,500	5	3.5W, Single	8 x 20.5 x 80.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1614-ND	16.44	14.88	12.53	CXA-L0505-NJL
12	1,500	5	3.5W, Single	8 x 20.5 x 80.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1615-ND	14.70	13.30	11.20	CXA-L0512-NJL
12	1,500	5	7W, Dual	8 x 20.5 x 130.5	455-1163	455-1127-1	455-1123	455-1124-1	455-1123	455-1124-1	445-1629-ND	25.05	22.67	19.09	CXA-P1012-NJL
24	1,500	5	3.5W, Single	8 x 20.5 x 80.5	WM1727	WM1142CT	455-1123	455-1124-1	—	—	445-1616-ND	16.44	14.88	12.53	CXA-L0524-NJL
Non-Dimming Function, PCB Mountable Type															
5	900	5 / 10	4.5W, Dual	16.5 x 21x 44	—	—	—	—	—	—	445-1621-ND	10.27	9.30	7.83	CXA-L10A
	1,200	5 / 10	6W, Single/Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1623-ND	12.27	11.11	9.35	CXA-M10A-L
	1,500	5 / 10	8W, Dual	17 x 29 x 56	—	—	—	—	—	—	445-1630-ND	18.42	16.67	14.04	CXA-P10A-P
12	900	5 / 10	4.5W, Dual	16.5 x 21 x 44	—	—	—	—	—	—	445-1622-ND	10.50	9.50	8.00	CXA-L10L
	900	7 / 14	9W, Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1637-ND	13.42	12.15	10.23	CXA-P20L-L
	1,200	5 / 10	6W, Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1624-ND	12.27	11.11	9.35	CXA-M10L-L
	1,500	5 / 10	8W, Dual	17 x 29 x 56	—	—	—	—	—	—	445-1631-ND	19.14	17.32	14.59	CXA-P10L-P
	1,500	7 / 14	8W, Dual	17 x 29 x 56	—	—	—	—	—	—	445-1628-ND	18.27	16.53	13.92	CXA-M14L-P
24	1,200	5 / 10	6W, Dual	16.5 x 29 x 56	—	—	—	—	—	—	445-1625-ND	12.27	11.11	9.35	CXA-M10M-L
	1,500	5 / 10	8W, Dual	17 x 29 x 56	—	—	—	—	—	—	445-1632-ND	19.14	17.32	14.59	CXA-P10M-P

COILTRONICS®
COOPER Bussmann

CCFL Inverter Transformers, SMT

Specifications:

RoHS COMPLIANT

- **Operating Temperature:** 0°C ~ 70°C • **Frequency Range:** 40-80kHz
- **Supply Current:** 30mA • **IR Reflow Temperature:** 240°C for 30 seconds max.

Mechanical Series	Dimensions (mm) L	W	H
A	21.5	14.35	7.80
B	20.6	14.35	8.0
C	26.0	16.5	5.50
D			
E	26.0	16.5	7.10

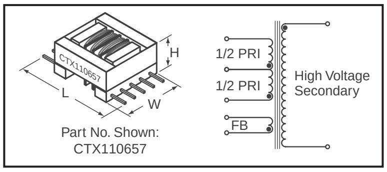

Part No. Shown: CTX110657

Pout Watts	Mechanical Dimensions	Primary DCR Max. (Ω)	Primary Voltage(1) Max. (VRMS)	Secondary DCR Max. (Ω)	Secondary Voltage(1) Max. (VRMS)	Digi-Key Part No.	Price Each 1	10	100	Coiltronics Part No.
2.5	A	0.212	15	285	1340	513-1118-ND	11.82	10.74	8.00	CTX110657-R
2.5	B	0.190	13	285	1340	513-1123-ND	12.43	11.29	8.40	CTX210659-R
4.0	C	0.160	15	220	1340	513-1119-ND	12.57	11.42	8.50	CTX210407-R
6.0	D	0.132	15	176	1340	513-1120-ND	12.57	11.42	8.50	CTX110607-R
6.0	E	0.132	15	176	1340	513-1122-ND	12.57	11.42	8.50	CTX210607-R
6.0	E	0.160	20	176	1340	513-1121-ND	12.57	11.42	8.50	CTX210605-R

Note (1): Continuous RMS Voltage.

J.W.Miller
MAGNETICS

SMT, CCFL Inverter Transformers

Features:

- Power Rating: 6 Watts
- Operating Frequency: 60KHz -/+25%
- Operating Ambient Temperature: 0°C ~ 75°C
- Storage Temperature: -40°C ~ 105°C
- Dielectric Withstanding Voltage: 1500Vrms

Applications:

- LCD flat panel displays
- Notebook / Palmtop computers
- Portable instruments
- Retail terminals

◊ *RoHS Compliant*

Dim. in mm

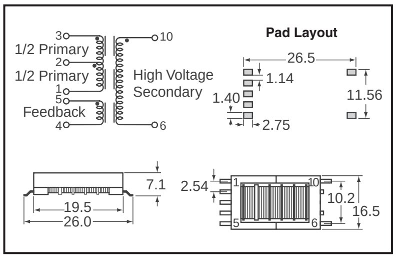

Primary DCR (Ω) Max.	Primary Voltage (V)	Secondary DCR (Ω) Max.	Secondary Voltage (V)	I, rms (mA)	Digi-Key Part No.	Price Each 1	10	25	J.W. Miller Part No.
0.61	25	132	1300	70	M8100-ND◊	4.71	3.54	3.14	PM61300-1-RC
0.82	20	175	1300	70	M8101-ND◊	4.71	3.54	3.14	PM61300-2-RC
1.10	15	175	1300	70	M1274-ND	4.71	3.54	3.14	PM61300-3
1.10	15	175	1300	70	M8102-ND◊	4.32	3.24	2.88	PM61300-3-RC
1.88	13	175	1300	70	M8103-ND◊	4.32	3.24	2.88	PM61300-4-RC
2.34	10.5	290	1300	70	M1276-ND	4.71	3.54	3.14	PM61300-5
2.34	10.5	290	1300	70	M8104-ND◊	4.71	3.54	3.14	PM61300-5-RC

JKL COMPONENTS CORPORATION

Cold Cathode Fluorescent Lamps and Inverters

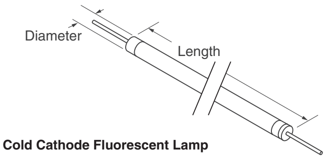

Cold Cathode Fluorescent Lamp

Tri-Phosphor-RGB White Lamps

Dia. (mm)	Length (mm)	Start Volts (V)	Lamp Volts (V)	Lamp Curr. (mA)	Intensity (Cd./m2)	Digi-Key Part No.		Price Each		JKL Part No.
							1	10	50	
2.0	125	700	280	5	38,000	289-1145-ND	10.29	9.31	7.84	BF20125-28B
	218	1700	740	5	38,000	289-1107-ND	11.34	10.26	8.64	BF20218-24B
	226	1730	745	5	38,000	289-1144-ND	12.18	11.02	9.28	BF20226-24B
	228	1300	515	5	46,000	289-1146-ND	12.18	11.02	9.28	CF20228-31B
	277	1560	625	5	38,000	289-1147-ND	12.18	11.02	9.28	CF20277-28B
	292	1820	810	5	38,000	289-1108-ND	12.77	11.56	9.73	BF20292-24B
	305	1021	663	6	42,000	289-1166-NDΔ ***NEW!***	12.98	11.75	9.89	CF20305-24B
	325	1970	885	5	38,000	289-1135-ND	12.98	11.75	9.89	BF20325-24B
2.2	140	730	340	5	38,000	289-1053-ND	10.29	9.31	7.84	BF22140-24B
	160	800	370	5	38,000	289-1136-ND	10.29	9.31	7.84	BF22160-24B
	180	1140	380	5	38,000	289-1148-ND	9.66	8.74	7.36	BF22180-28B
	258	1700	720	5	38,000	289-1059-ND	10.29	9.31	7.84	BF22258-25B
2.4	437	1400	835	5	38,000	289-1137-ND	14.47	13.10	11.03	BF24438-33B
2.6	61	490	195	5	30,000	289-1140-ND	10.29	9.31	7.84	BF2661-24B
	180	1000	400	5	38,000	289-1054-ND	10.29	9.31	7.84	BF26180-24B
	188	1300	525	5	38,000	289-1039-ND	10.29	9.31	7.84	BF26188-20B
	214	1450	620	5	30,000	289-1060-ND	10.29	9.31	7.84	BF26214-20B
	230	1175	495	5	30,000	289-1138-ND	12.77	11.56	9.73	BF26230-24B
	240	1250	505	5	30,000	289-1055-ND	12.76	11.55	9.72	BF26240-24B
	250	1300	525	5	30,000	289-1056-ND	12.76	11.55	9.72	BF26250-24B
	285	1500	725	5	30,000	289-1057-ND	12.76	11.55	9.72	BF26285-20B
	318	1636	676	5	34,000	289-1109-ND	12.77	11.56	9.73	BF26318-20B
	346	1450	700	6	36,000	289-1149-ND	12.77	11.56	9.73	CF26346-37B
	349	1715	730	5	30,000	289-1150-ND	12.77	11.56	9.73	CF26349-28B
	360	1650	700	5	38,000	289-1139-ND	12.98	11.75	9.89	BF26360-20B
	499	2100	1000	6	36,000	289-1151-ND	12.98	11.75	9.89	CF26499-37B
	600	2340	1125	6	36,000	289-1152-ND	12.98	11.75	9.89	CF26600-37B
2.9	25	400	165	5	19,000	289-1002-ND	10.29	9.31	7.84	BF325-22B
3.0	25	400	165	5	—	289-1154-ND	17.12	15.49	13.04	BF325-HG
	275	1475	590	5	28,000	289-1142-ND	12.77	11.56	9.73	BF3275-20B
	380	1975	790	5	28,000	289-1143-ND	12.98	11.75	9.89	BF3380-24B
	50	500	195	5	28,000	289-1003-ND	10.29	9.31	7.84	BF350-20B
	75	525	210	5	28,000	289-1058-ND	10.29	9.31	7.84	BF375-20B
	86	540	220	5	28,000	289-1004-ND	10.29	9.31	7.84	BF386-20B
	100	665	270	5	28,000	289-1005-ND	10.29	9.31	7.84	BF3100-20B
	160	850	345	5	28,000	289-1006-ND	10.29	9.31	7.84	BF3160-20B
	216	1100	440	5	28,000	289-1040-ND	10.29	9.31	7.84	BF3216-20B
	228	1150	460	5	28,000	289-1007-ND	10.29	9.31	7.84	BF3228-21B
	240	1150	480	5	28,000	289-1141-ND	12.77	11.56	9.73	BF3240-24B
	250	1200	520	5	28,000	289-1008-ND	10.29	9.31	7.84	BF3250-20B
	300	1350	665	5	28,000	289-1041-ND	12.76	11.55	9.72	BF3300-20B
	360	1500	785	5	28,000	289-1042-ND	12.76	11.55	9.72	BF3360-20B
4.1	183	900	365	5	16,000	289-1043-ND	10.29	9.31	7.84	BF4183-20B
	418	1400	765	5	15,000	289-1061-ND	13.69	12.39	10.44	BF4418-20B
4.85	142	800	260	5	9,500	289-1153-ND	10.29	9.31	7.84	BF4142-20B
5.6	118	600	305	5	7,000	289-1009-ND	10.29	9.31	7.84	BF5118-20B
	165	800	400	5	7.000	289-1044-ND	10.29	9.31	7.84	BF5165-20B
	200	850	445	5	7,000	289-1010-ND	10.29	9.31	7.84	BF5200-20B
6.5	100	550	230	5	6,500	289-1012-ND	10.29	9.31	7.84	BF6100-20B
	144	600	245	5	6,500	289-1045-ND	10.29	9.31	7.84	BF6144-20B
	150	600	250	5	6,500	289-1013-ND	10.29	9.31	7.84	BF6150-20B
	165	600	255	5	6,500	289-1046-ND	10.29	9.31	7.84	BF6165-20B
	178	650	270	5	6,500	289-1014-ND	10.29	9.31	7.84	BF6178-20B
	200	680	290	5	6,500	289-1015-ND	10.29	9.31	7.84	BF6200-20B
	225	750	340	5	6,500	289-1016-ND	10.29	9.31	7.84	BF6225-20B
	262	850	350	5	6,500	289-1017-ND	10.29	9.31	7.84	BF6262-20A

Δ ***RoHS Compliant***

Narrow Spectrum UltraViolet (UV) Lamps

Dia. (mm)	Length (mm)	Start Volts (V)	Operating Volts (V)	Watts @ 5mA	Output uW/cm2@1”	Digi-Key Part No.		Price Each		JKL Part No.
							1	10	50	
3.0	25	350	140	0.70	0.30	289-1018-ND	10.29	9.31	7.84	BF325-UV1
3.0	50	500	195	0.98	0.30	289-1019-ND	10.29	9.31	7.84	BF350-UV1
3.0	100	675	270	1.35	0.25	289-1020-ND	10.29	9.31	7.84	BF3100-UV1
3.0	120	865	280	1.35	0.25	289-1021-ND	10.29	9.31	7.84	BF3120-UV1
3.0	240	950	500	2.50	0.25	289-1022-ND	10.29	9.31	7.84	BF3240-UV1
9.0	59	375	150	0.75	0.15	289-1023-ND	10.29	9.31	7.84	BF959-UV1/3

Fluorescent Lamp Assembly

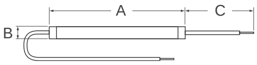

Lamp Length A (mm)	Lamp Diameter B (mm)	Lead Length C (mm)	Digi-Key Part No.		Price Each		JKL Part No.
				1	10	50	
258	2.2	150	289-1111-ND	19.15	17.33	14.60	BF22258-25B/DK01
100	3.2	150	289-1112-ND	15.44	13.97	11.76	BF3100-20B/DK01
160	3.2	150	289-1113-ND	15.44	13.97	11.76	BF3160-20B/DK01
250	3.2	150	289-1114-ND	17.22	15.58	13.12	BF3250-20B/DK01
418	4.1	150	289-1115-ND	20.54	18.59	15.65	BF4418-20B/DK01

Inverters for CCFL and UV Lamps

Input Volts	Output Volts (V)	Output I (mA)	Inverter Characteristics	Digi-Key Part No.		Price Each		JKL Part No.
					1	10	50	
3.0	650	4.5	Fixed Single Output	289-1062-ND	13.23	11.97	10.08	BXA-302
5.0	650	4.5		289-1047-ND	15.12	13.86	11.97	BXA-502
5.0	700	5.0		289-1134-ND	12.12	11.11	9.60	BXA-501
6.0	1200	5.0		289-1064-ND	14.95	13.53	11.40	BXA-503
12.0	700	5.5		289-1049-ND	15.12	13.86	11.97	BXA-12553
12.0	800	4.0		289-1050-ND	15.12	13.86	11.97	BXA-12576
12.0	800	4.0		289-1051-ND	15.12	13.86	11.97	BXA-12577
12.0	850	5.5	Fixed Dual Output	289-1048-ND†	21.32	19.29	16.24	BXA-12529-PS1
12.0	1000	5.5		289-1025-ND	15.12	13.86	11.97	BXA-12529
24.0	1000	5.5		289-1027-ND	15.12	13.86	11.97	BXA-24529
12.0	1350	6.5	Fixed Triple Output	289-1155-ND	33.18	30.02	25.28	BXA-12379
12.0	1000	3.0	Dimming Single Output	289-1116-ND	18.94	17.14	14.44	BXA-12592-3M
12.0	1000	5.0		289-1117-ND	13.23	11.97	10.08	BXA-12594-5M
12.0	1000	5.0		289-1156-ND	31.08	28.12	23.68	BXA-12563
12.0	1000	6.0		289-1035-ND	24.72	22.25	19.78	BXA-12564-6M
12.0	1000	6.0		289-1034-ND	27.72	24.95	22.18	BXA-12562-6M
12.0	1000	6.0		289-1036-ND	25.76	23.19	20.61	BXA-12565-6M
12.0	1200	5.0		289-1118-ND	27.05	24.48	20.61	BXA-12598-5M
12.0	1200	6.2		289-1065-ND§	14.95	13.53	11.40	BXA-12617C-6M
12.0	1000	7.0	Dimming Dual Output	289-1120-ND	37.46	33.90	28.55	BXA-12613-7M
12.0	1200	6.0		289-1063-ND	29.32	26.53	22.34	BXA-12549-6M
12.0	1500	5.0		289-1026-ND	15.12	13.86	11.97	BXA-12579
12.0	1500	5.5		289-1157-ND	33.08	29.93	25.20	BXA-12630-5.5M
12.0	1800	7.0		289-1119-ND	61.36	55.52	46.76	BXA-12610-7M
Accessories								
Input Conn. Assembly for BXA-12579				289-1037-ND	2.00	—	—	BXC-10605
Output Conn. Assembly for BXA-12579......				289-1038-ND	2.50	—	—	BXC-10569
Output Connector Assembly for BXA-12553 and BXA-501				289-1052-ND	2.00	—	—	BXC-10566
Input Conn. Assembly for BXA-12379				289-1158-ND	2.63	2.38	2.00	BXC-12379/ICON
Output Connector Assembly for Single BXA-12379........................				289-1159-ND	2.10	1.90	1.60	BXC-12379/OCON1
Output Connector Assembly for Dual BXA-12379..........................				289-1160-ND	3.15	2.85	2.40	BXC-12379/OCON2
Input Conn. Assembly for BXA-12563				289-1161-ND	2.63	2.38	2.00	BXC-10546
Output Conn. Assembly for BXA-12563......				289-1162-ND	2.63	2.38	2.00	BXC-10567
Input Connector Assembly for BXA-12630-5.5M				289-1163-ND	3.15	2.85	2.40	BXC-10694
Output Connector Assembly for BXA-12630-5.5M.........................				289-1164-ND	2.63	2.38	2.00	BXC-10685
Input Connector for BXA-12549-6M				289-1066-ND	2.63	2.38	2.00	BXC-10550
Output Connector for BXA-12549-6M.......				289-1067-ND	2.63	2.38	2.00	BXC-10655
Input Connector for BXA-12617C-6M.......				289-1068-ND	2.63	2.38	2.00	BXC-10580
Output Connector for BXA-12617C-6M, BXA-12592-3M, BXA-12598-5M, BXA-12610-7M and BXA-12613-7M				289-1069-ND	2.63	2.38	2.00	BXC-10643
Input Connector for BXA-503				289-1070-ND	2.63	2.38	2.00	BXC-10574
Output Connector for BXA-503...............				289-1071-ND	2.63	2.38	2.00	BXC-10585
Input Connector for BXA-12592-3M, BXA-12598-5M and BXA-12594-5M.....				289-1121-ND	2.90	2.63	2.21	BXC-10549
Output Connector for BXA-12594-5M.......				289-1123-ND	2.63	2.38	2.00	BXC-10689
Input Connector for BXA-12610-7M and BXA-12613-7M.....................				289-1124-ND	2.90	2.63	2.21	BXC-10630
End Cap for 3mm Fluorescent Lamps.......				289-1072-ND	.53	.48	.40	BF3/RC
End Cap for 2.2mm and 2.4mm Fluorescent Lamps				289-1133-ND	.53	.48	.40	BF2.4/RC
End Cap for 2.6mm Fluorescent Lamps.....				289-1165-ND	.53	.48	.40	BF2.6/RC

† Potted inverter § See JST below for Mating Connector

Inverters for Electroluminescent (EL) Backlighting

Input Voltage Range (dc)	EL Element Area (cm^2)	Digi-Key Part No.		Price Each		JKL Part No.
			1	10	50	
3.0 ~ 5.5	10 - 19	289-1028-ND	12.20	10.98	9.76	NDL-201
	19 - 38	289-1029-ND	12.20	10.98	9.76	NDL-202
	20 - 60	289-1132-ND*	13.19	11.94	10.05	NDL-104LP
3.0 ~ 5.5	25 - 43	289-1030-ND	12.20	10.98	9.76	NDL-203
	41 - 70	289-1031-ND	11.90	10.71	9.52	NDL-204
	50 - 83	289-1032-ND	11.90	10.71	9.52	NDL-205
3.0 ~ 5.5	100 - 170	289-1033-ND	11.20	10.08	8.96	NDL-217

* Low Profile

JST Mating Connector, Contact and Crimp Tool

Description	Digi-Key Part No.		Pricing		Tape & Reel Pricing*	JST Part No.
		10	100	500		
2-3 Pos., 8mm, Crimp Connector Style BH Housing	455-1123-ND	1.15	9.58	38.30	—	BHR-03VS-1
4-Pos., 4mm, Crimp Connector Style BH Housing..................	455-1369-ND	1.64	13.67	54.66	—	BHR-04VS-1
22-28 AWG, Tin-Plated Phosphor Bronze Crimp Contact	455-1124-1-ND*	—	3.25	14.34	60.00/4,000	SBH-001T-P0.5
Crimp Tool with Die for 22-28 AWG Contacts	455-1125-ND		411.48/1		—	YC-670R

* For Tape and Reel part number, change 1-ND to 2-ND.

VARITRONIX

LCDs

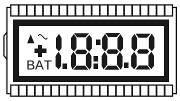

Electrical/Optical Char.	Static	HV†	Units
Oper. Temperature Range	-10°~ 60°	10°~ 60°	C
Operational Voltage, RMS	3.0	3.9 - 47	V-RMS
Drive Frequency	30-300	60-300	Hz
Current Consumption	15	15	nA/mm^2
Turn-On Time	120	80	ms
Turn-Off Time	100	80	ms

Reflective and Transflective (Transflective Denoted by "FC" in Varitronix Part No.)

Features: • Long Life/High Reliability • Excellent Optical Quality • High Contrast Ratio • Wide Viewing Angle • Large Useful Viewing Area • Fast Response • Low Power Consumption

Format	Digit Size (mm)	No. Of Digits	Type (mm)	Conn. No. Of Pins	Dual Row Spacing (mm)	Driver ICs (Not Included) (Applies to both P/N)	LED Back-light	Matching Bezel ‡	Digi-Key Part No.	Price Each 1	5	10	Varitronix Part No.
	12.70	2	2.54 Dip	18	33.02	4543B(2)	— —	PRD180LPW-ND PRD180LPW-ND	153-1003-ND 153-1002-ND*	2.88 2.88	2.67 2.67	2.39 2.39	VI-201-DP-RC-S VI-201-DP-FC-S
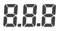	8.89	3	2.54 Dip	24	22.86	OKI MSM58292, HD61603	—	N/A	153-1101-ND	4.20	3.89	3.49	VI-321-DP-RC-S
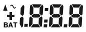	12.70	3 1/2	2.54 Dip	40	33.02	4543B(4)	— 1	PRD180LP-ND PRD180LP-ND	153-1005-ND 153-1004-ND*	4.92 4.92	4.56 4.56	4.09 4.09	VI-322-DP-RC-S VI-322-DP-FC-S
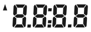	12.70	4	2.54 Dip	40	33.02	4543B(4)	— 1	PRD180LP-ND PRD180LP-ND	153-1007-ND 153-1006-ND*	4.92 4.92	4.56 4.56	4.09 4.09	VI-422-DP-RC-S VI-422-DP-FC-S
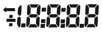	10.16	4 1/2	2.54 Dip	40	33.02	4543B(5)	— 1	PRD180LP-ND PRD180LP-ND	153-1009-ND 153-1008-ND*	4.92 4.92	4.56 4.56	4.09 4.09	VI-502-DP-RC-S VI-502-DP-FC-S
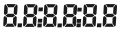	12.70	6	2.54 Dip	50	33.02	4543B(6)	— 2	PRD250LP-ND PRD250LP-ND	153-1011-ND 153-1010-ND*	7.46 7.46	6.90 6.90	6.20 6.20	VI-602-DP-RC-S VI-602-DP-FC-S
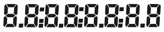	12.70	8	2.54 Dip	68	33.02	4543B(8)	— 3	PRD360LP-ND PRD360LP-ND	153-1013-ND 153-1012-ND*	12.36 12.36	11.44 11.44	10.26 10.26	VI-804-DP-RC-S VI-804-DP-FC-S
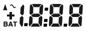	17.78	3 1/2	2.54 Dip	40	40.64	4543B(4)	— 2	N/A N/A	153-1015-ND 153-1014-ND*	10.88 10.88	10.07 10.07	9.03 9.03	VI-319-DP-RC-S VI-319-DP-FC-S
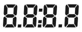	17.78	4	2.54 Dip	40	40.64	4543B(4)	— 2	N/A N/A	153-1017-ND 153-1016-ND*	10.24 10.24	9.48 9.48	8.50 8.50	VI-415-DP-RC-S VI-415-DP-FC-S
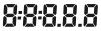	10.16	5	2.54 Dip	40	33.02	4543B(5)	— 2	PRD180LP-ND PRD180LP-ND	153-1019-ND 153-1018-ND*	4.92 4.92	4.56 4.56	4.09 4.09	VI-508-DP-RC-S VI-508-DP-FC-S
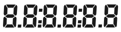	17.78	6	2.54 Dip	50	40.64	4543B(6)	— 3	N/A N/A	153-1021-ND 153-1020-ND*	14.94 14.94	13.82 13.82	12.40 12.40	VI-607-DP-RC-S VI-607-DP-FC-S
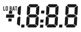	12.70	3 1/2	2.54 Dip	40	33.02	4543B(4)	— 1	PRD180LP-ND PRD180LP-ND	153-1023-ND 153-1022-ND*	4.92 4.92	4.56 4.56	4.09 4.09	VI-302-DP-RC-S VI-302-DP-FC-S
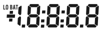	10.16	4 1/2	2.54 Dip	40	33.02	4543B(5)	— 1	PRD180LP-ND PRD180LP-ND	153-1025-ND 153-1024-ND*	4.92 4.92	4.56 4.56	4.09 4.09	VI-509-DP-RC-S VI-509-DP-FC-S
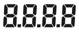	12.70	4	2.54 Dip	20	33.02	—	— 2	PRD180LP-ND PRD180LP-ND	153-1046-ND† 153-1047-ND†*	4.54 4.54	4.20 4.20	3.77 3.77	VIM-404-DP-RC-S-H VIM-404-DP-FC-S-HV
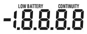	10.16	4 1/2	2.54 Dip	15	33.02	ICL7129A	— 2	PRD180LP-ND PRD180LP-ND	153-1054-ND† 153-1055-ND†*	4.38 4.38	4.06 4.06	3.64 3.64	VIM-503-DP-RC-S-HV VIM-503-DP-FC-S-HV
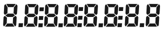	12.70	8	2.54 Dip	42	33.02	—	— 3	PRD360LP-ND PRD360LP-ND	153-1056-ND† 153-1057-ND†*	11.30 11.30	10.46 10.46	9.38 9.38	VIM-808-DP-RC-S-HV VIM-808-DP-FC-S-HV

‡ Bezels can be found under PRD Plastics in the manufacture index. † Multiplexed Display * Transflective

Backlight For Transflective LCDs

LED Backlight	Overall Size (mm) L x W x H	Active Size (mm) LE x WE	Forward Current mA at 4.1V Typical	Maximum	Digi-Key Part No.	Price Each 1	5	10	Varitronix Part No.
1	565 x 19.5 x 3.5	49 x 12	70	140	153-1026-ND	7.30	6.76	6.06	LED4-16264
2	75 x 26.6 x 3.8	60 x 22	135	270	153-1027-ND	11.20	10.36	9.30	LED4-20464B
3	94 x 24 x 4	84 x 19	180	360	153-1028-ND	9.50	8.79	7.89	LED4-20265

LCD Modules

Features: Character Format: 5 x 8 dots

All the LCD's listed use a SAMSUNG controller P/N KS0066

Display Format	Matching Bezel ‡	Pad Layout	Outline Dim. (mm) W x H x D	Display Area Dim. (mm) W x H	Character Size W x H (mm)	Dot Size (mm) W x H	Operating Temperature (°C)	Storage Temperature (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each 1	5	10	Varitronix Part No.
Standard LCD														
16 x 1	PRD250LPW1-ND	Top	80 x 36 x 11	64.5 x 13.8	3.15 x 6.30	.55 x .70	-5° ~ 50°	-20° ~ 60°	5	153-1077-ND	10.98	10.16	9.12	MDL-16166-SS-LV
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 10	61.0 x 15.8	2.95 x 5.55	.55 x .65	-5° ~ 50°	-20° ~ 60°	5	153-1078-ND	13.30	12.31	11.04	MDL-16265-SS-LV
Supertwist LCD Module														
8 x 1	PRD250LPW-ND	Bottom	84 x 44 x 11	61.0 x 15.8	6.45 x 10.75	1.25 x 1.30	-5° ~ 50°	-20° ~ 60°	5	153-1080-ND	17.20	15.91	14.28	MDLS-81809-SS-LV-G
16 x 1	PRD250LPW1-ND	Top	80 x 36 x 11	64.5 x 13.8	3.15 x 6.30	.55 x .70	-5° ~ 50°	-20° ~ 60°	5	153-1081-ND	12.16	11.25	10.10	MDLS-16166-SS-LV-G
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 10	61.0 x 15.8	2.95 x 5.55	.55 x .65	-5° ~ 50°	-20° ~ 60°	5	153-1082-ND	14.22	13.16	11.81	MDLS-16265-SS-LV-G
16 x 4	N/A	Top	87 x 60 x 10	61.8 x 25.2	2.95 x 4.75	.55 x .55	-5° ~ 50°	-20° ~ 60°	5	153-1083-ND	29.10	26.92	24.16	MDLS-16465-SS-LV-G
20 x 1	N/A	L. Side	182 x 33.5 x 11	154 x 15.3	6.7 x 11.50	1.30 x 1.30	-5° ~ 50°	-20° ~ 60°	5	153-1084-ND	33.42	30.92	27.74	MDLS-20189-SS-LV-G
20 x 2	PRD360LPW-ND	L. Side	116 x 37 x 11	83.0 x 18.6	3.2 x 5.55	.60 x .65	-5° ~ 50°	-20° ~ 60°	5	153-1085-ND	20.88	19.32	17.33	MDLS-20265-SS-LV-G
20 x 4	N/A	Top	98 x 60 x 12	76.0 x 25.2	2.9 x 4.7	.50 x .50	-5° ~ 50°	-20° ~ 60°	5	153-1086-ND	29.20	27.01	24.24	MDLS-20464-SS-LV-G
24 x 2	PRD360LPW1-ND	L. Side	118 x 36 x 10	93.5 x 15.8	3.2 x 5.15	.60 x .60	-5° ~ 50°	-20° ~ 60°	5	153-1087-ND	22.96	21.24	19.06	MDLS-24265-SS-LV-G
40 x 2	N/A	L. Side	182 x 33.5 x 11	154.0 x 15.8	3.15 x 5.50	.55 x .60	-5° ~ 50°	-20° ~ 60°	5	153-1088-ND	37.84	35.01	31.41	MDLS-40266-SS-LV-G
40 x 4	N/A	L. Side	196 x 56 x 11	154.4 x 27.6	3.15 x 5.50	.55 x .60	-10° ~ 60°	-20° ~ 70°	+5/-5	153-1089-ND	66.24	61.28	54.98	MDLS-40466-SS-G-HV
Supertwist LCD Module with LED Backlighting														
8 x 1	PRD250LPW-ND	Bottom	84 x 44 x 15	61.0 x 15.8	6.45 x 10.75	1.25 x 1.30	-5° ~ 50°	-20° ~ 60°	5	153-1090-ND*	24.24	22.43	20.12	MDLS-81809-SS-LV-G-LED-04-G
16 x 1	PRD250LPW1-ND	Top	80 x 36 x 14	64.5 x 13.8	3.15 x 6.30	.55 x .70	-5° ~ 50°	-20° ~ 60°	5	153-1091-ND*	16.66	15.41	13.83	MDLS-16166-SS-LV-G-LED-04-G
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 14	61.0 x 15.8	2.95 x 5.55	.55 x .65	-5° ~ 50°	-20° ~ 60°	5	153-1092-ND	18.88	17.47	15.67	MDLS-16265-SS-LV-G-LED-04-G-14
16 x 2	PRD250LPW-ND	Bottom	84 x 44 x 14	61.0 x 15.8	2.95 x 5.55	.55 x .65	-5° ~ 50°	-20° ~ 60°	5	153-1093-ND†	18.88	17.47	15.67	MDLS-16265-SS-LV-G-LED-04-G-16
16 x 4	N/A	Top	87 x 60 x 13	61.8 x 25.2	2.95 x 4.75	.55 x .55	-5° ~ 50°	-20° ~ 60°	5	153-1094-ND*	34.72	32.12	28.82	MDLS-16465-SS-LV-G-LED-04-G
20 x 1	N/A	L. Side	182 x 33.5 x 14.5	154 x 15.3	6.7 x 11.50	1.30 x 1.30	-5° ~ 50°	-20° ~ 60°	5	153-1095-ND*	46.42	42.94	38.53	MDLS-20189-SS-LV-G-LED-04-G
20 x 2	PRD360LPW-ND	L. Side	116 x 37 x 14	83.0 x 18.6	3.2 x 5.55	.60 x .65	-5° ~ 50°	-20° ~ 0°	5	153-1096-ND*	27.42	25.37	22.76	MDLS-20265-SS-LV-G-LED-04-G
20 x 4	N/A	Top	98 x 60 x 14	76.0 x 25.2	2.9 x 4.7	.50 x .50	-5° ~ 50°	-20° ~ 60°	5	153-1097-ND*	37.48	34.67	31.11	MDLS-20464-SS-LV-G-LED-04-G
24 x 2	PRD360LPW1-ND	L. Side	118 x 36 x 13.4	93.5 x 15.8	3.2 x 5.15	.60 x .60	-5° ~ 50°	-20° ~ 60°	5	153-1098-ND*	30.28	28.01	25.14	MDLS-24265-SS-LV-G-LED-04-G
40 x 2	N/A	L. Side	182 x 33.5 x 14	154.0 x 15.8	3.15 x 5.50	.55 x .60	-5° ~ 50°	-20° ~ 60°	5	153-1099-ND	51.28	47.44	42.57	MDLS-40266-SS-LV-G-LED-04-G
40 x 4	N/A	L. Side	196 x 56 x 14	154.4 x 27.6	3.15 x 6.30	.55 x .60	-10° ~ 60°	-20° ~ 70°	+5/-5	153-1100-ND	81.64	75.52	67.77	MDLS-40466-SS-G-HV-LED-04-G

* The LED chips are distributed over the whole lit area, bonded in a pattern which gives the most uniform illumination. Power connection is made by two solder holes, marked "A" for +5V and "K" for Ground. ‡ Bezels can be found under PRD Plastics in the manufacture index. † 16 Pin Version

Noritake

Vacuum Fluorescent Display Modules

VFD OVER LCD ADVANTAGES:
- Higher Brightness
- Wider Viewing Angle
- Wider Temperature Range

FEATURES:
- LCD compatible interface
- Same mounting locations as LCD
- +5V single power supply
- Power save mode (display off)
- 4 level brightness control (by code)
- 8-bit or 4-bit interface
- Wide operating temperature range
- 8 user definable fonts
- Power consumption similar to LCD with LED backlight
- 5mm or 9mm character height
- Color: Blue-Green

Pin Connections

Pin No.	Symbol	Pin No.	Symbol
1	Vss	8	DB1
2	Vcc	9	DB2
3	NC	10	DB3
4	RS	11	DB4
5	RW (WR)	12	DB5
6	E (RD)	13	DB6
7	DBO	14	DB7

Display Format	Character Format	Outline Dim. W x H x D (mm)	Viewing Area W x H (mm)	Char. Size W x H (mm)	Dot Size W x H (mm)	Operating Temp. (°C)	Storage Temp. (°C)	Supply Volt. (V)	Digi-Key Part No.	Price Each 1	10	50	Noritake Part No.
16 x 2	5 x 7 Dots	80 x 36 x 13.2	51.36 x 11.4	2.46 x 4.76	.38 x .56	-40 ~ 85	-50 ~ 85	5	286-1019-ND	55.84	51.66	41.88	CU16025ECPB-W6J
16 x 2	5 x 8 Dots	122 x 44 x 20.2	82.70 x 19.0	3.85 x 8.0	.53 x .89	-40 ~ 85	-50 ~ 85	5	286-1017-ND	94.76	87.66	71.07	CU16029ECPB-W1J
20 x 2	5 x 7 CURS	116 x 37 x 16	70.8 x 11.5	2.4 x 5.4	.4 x .5	-40 ~ 85	-50 ~ 85	5	286-1005-ND	60.58	56.04	45.44	CU20025ECPB-W1J
20 x 2	5 x 7 Dots	146 x 43 x 19	102.6 x 18.8	3.8 x 8.0	.6 x .975	-40 ~ 85	-50 ~ 85	5	286-1028-ND	98.68	91.28	74.01	CU20029ECPB-W1J
20 x 4	5 x 7 Dots	98 x 60 x 17	70.8 x 20.9	2.4 x 4.7	.4 x .5	-40 ~ 85	-50 ~ 85	5	286-1020-ND	94.16	87.10	70.62	CU20045SCPB-W5J
20 x 4	5 x 8 Dots	146 x 62.5 x 23	99.6 x 37.6	3.65 x 8.8	.57 x .84	-40 ~ 85	-50 ~ 85	5	286-1018-ND	146.26	135.30	109.70	CU20049SCPB-W2J
40 x 2	5 x 7 Dots	182 x 33.5 x 20.5	138.8 x 11.5	2.3 x 4.7	.38 x .5	-40 ~ 85	-50 ~ 85	5	286-1021-ND	94.98	87.86	71.24	CU40025SCPB-W6J
24-x 2	5 x 7 Dots	125 x 36 x 20.74	85.2 x 11.5	2.4 x 4.7	.4 x .5	-40 ~ 85	-50 ~ 85	5	286-1029-ND	68.00	62.90	51.00	CU24025ECPB-W1J
40 x 4	5 x 7 Dots	190 x 54 x 21	137.35 x 23.16	2.07 x 4.89	.29 x .48	-40 ~ 85	-50 ~ 85	5	286-1039-ND	210.12	194.37	157.59	CU40045SCPB-W1J

Graphics Vacuum Fluorescent Display Modules

Storage Temperature: -40 ~ 85 °C

GRAPHICS SOFTWARE DEVELOPMENT KIT:

Demonstrate Your Application from Your PC - Easily create text, boxes, lines and freehand drawings: • Load the Noritake Software onto your PC • Connect the graphics display to the interface card • Connect the power supply to the interface board • Connect the interface card to your parallel port

Using the Noritake software on your PC: • Download BMP files and illustrate them on the graphics display • Enter text • Create boxes, lines and freehand drawings easily

Noritake Development Kit Includes: • Noritake Graphics Development Software • Power Supply • Interface board from display to PC parallel port (parallel port cable not included - recommend AE1012-ND)

GUD3000/GUD7000 DEVELOPMENT KIT:

Kit Includes: • GU3000 or GU7000 VFD module with stand • DC power supply (5V/2A, regulated) • Cable harness for both power supply and signal • CD-ROM for software and related documentation • Notice for cautious handling VFD modules • Warranty paper package list

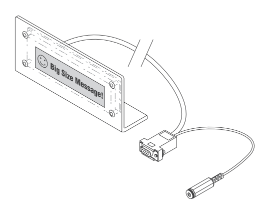
Big Size Message!

GUD3000/GUD7000

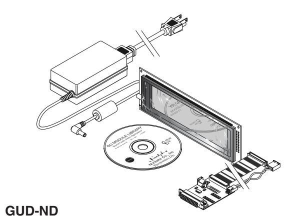

GUD-ND

Number Of Dots	Number of Characters	Dot Pitch (mm)	Display Area W x H (mm)	PCB Size W x H (mm)	Power (v/mA) (all dots on)	Operating Temperature (°C)	Digi-Key Part No.	Price Each 1	10	50	Noritake Part No.
128 x 32	4 x 21	0.65 x 0.65	83.05 x 20.65	130 x 38.5	5.0/450	-40 ~ 85	286-1022-ND	132.06	122.16	99.05	GU128X32-800A
128 x 32	4 x 21	0.45 x 0.44	57.45 X 13.93	98 x 131	5.0/400	-40 ~ 85	286-1046-ND	100.60	93.06	75.45	GU128X32D-7000
128 x 32	4 x 21	0.45 x 0.44	57.45 x 13.93	98 x 131	5.0/400	-40 ~ 85	286-1047-ND	96.00	88.80	72.00	GU128X32D-7002
128 x 32	4 x 21	0.45 x 0.44	57.45 x 13.93	98 x 131	5.0/400	-40 ~ 85	286-1048-ND	95.80	88.62	71.85	GU128X32D-7003
128 x 64	8 x 21	0.65 x 0.65	83.05 x 41.45	140 x 68	5.0/750	-40 ~ 85	286-1023-ND	164.40	152.07	123.30	GU128X64-800A
160 x 16	2 x 26	0.65 x 0.95	103.85 x 15	154 x 39	5.0/400	-40 ~ 85	286-1025-ND	147.10	136.07	110.33	GU160X16-800A
160 x 32	4 x 26	0.635 x 0.635	101.45 x 20.17	154 x 45	5.0/550	-40 ~ 85	286-1026-ND	153.90	142.36	115.43	GU160X32-800A
192 x 16	2 x 32	0.75 x 0.75	143.8 x 11.8	200 x 33.5	5.0/450	-40 ~ 85	286-1024-ND	158.02	146.17	118.52	GU192X16-800A
256 x 32	4 x 42	0.65 x 0.65	166.25 x 20.65	220 x 50	5.0/750	-40 ~ 85	286-1027-ND	168.72	156.07	126.54	GU256X32-800A
256 x 32	4 x 42	0.65 x 0.65	166.25 x 20.65	220 x 50	5.0/650	-40 ~ 85	286-1013-ND	163.80	151.52	122.85	GU256X32-800
256 x 64	8 x 42	0.65 x 0.65	166.3 x 41.50	222 x 78	5.0/2000	-20 ~ 70	286-1010-ND	309.42	286.22	232.07	GU256X64-372
256 x 64	8 x 42	0.65 x 0.65	166.25 x 41.45	230 x 78	5.0/1500	-40 ~ 85	286-1040-ND	245.14	226.76	183.86	GU256X64-900A
256 x 64	16 x 32*	0.45 x 0.45	115 x 28.65	159 x 50	5.0/850	-40 ~ 70	286-1043-ND	202.00	186.85	151.50	GU256X64D-3900
112 x 16	2 x 16	0.47 x 0.725	52.50 x 11.45	80 x 36	5.0/260	-40 ~ 85	286-1030-ND	59.80	55.32	44.85	GU112X16G-7000
112 x 16	2 x 16	0.47 x 0.725	52.50 x 11.45	80 x 36	5.0/260	-40 ~ 85	286-1031-ND	57.00	52.73	42.75	GU112X16G-7002
112 x 16	2 x 16	0.47 x 0.725	52.50 x 11.45	80 x 36	5.0/260	-40 ~ 85	286-1032-ND	54.20	50.14	40.65	GU112X16G-7003
140 x 16	2 x 20	0.5 x 0.725	69.85 x 11.45	116 x 37	5.0/290	-40 ~ 85	286-1033-ND	64.80	59.94	48.60	GU140X16G-7000
140 x 16	2 x 20	0.5 x 0.725	69.85 x 11.45	116 x 37	5.0/290	-40 ~ 85	286-1034-ND	61.80	57.17	46.35	GU140X16G-7002
140 x 16	2 x 20	0.5 x 0.725	69.85 x 11.45	116 x 37	5.0/290	-40 ~ 85	286-1035-ND	58.80	54.39	44.10	GU140X16G-7003
140 x 16	2 x 23	0.735 x 1.185	102.75 x 18.8	146 x 43	5.0/650	-40 ~ 85	286-1049-ND	105.40	97.50	79.05	GU140X16J-7000
140 x 16	2 x 23	0.735 x 1.185	102.7 x 18.8	146 x 43	5.0/650	-40 ~ 85	286-1050-ND	100.60	93.06	75.45	GU140X16J-7002
140 x 16	2 x 23	0.735 x 1.185	102.75 x 18.8	146 x 43	5.0/650	-40 ~ 85	286-1051-ND	95.80	88.62	71.85	GU140X16J-7003
140 x 32	4 x 20	0.5 x 0.725	69.85 x 21.61	90 x 60	5.0/400	-40 ~ 85	286-1036-ND	100.60	93.06	75.45	GU140X32F-7000
140 x 32	4 x 20	0.5 x 0.68	69.85 x 21.61	90 x 60	5.0/400	-40 ~ 85	286-1037-ND	96.00	88.80	72.00	GU140X32F-7002
140 x 32	4 x 20	0.5 x 0.68	69.85 x 21.61	90 x 60	5.0/400	-40 ~ 85	286-1038-ND	91.40	84.55	68.55	GU140X32F-7003
280 x 16	2 x 46	0.49 x 0.70	137.05 x 11.0	182 x 33.5	5.0/520	-40 ~ 85	286-1052-ND	101.60	93.98	76.20	GU280X16G-7000
280 x 16	2 x 46	0.49 x 0.70	137.05 x 11.0	182 x 33.5	5.0/520	-40 ~ 85	286-1053-ND	97.00	89.73	72.75	GU280X16G-7002
280 x 16	2 x 46	0.49 x 0.70	137.05 x 11.0	182 x 33.5	5.0/520	-40 ~ 85	286-1054-ND	92.20	85.29	69.15	GU280X16G-7003
256 x 64	8 x 42	0.325 x 0.325	83.08 x 20.68	133 x 38	5.0/430	-40 ~ 85	286-1055-ND	190.00	175.75	142.50	GU256X64C-3900
256 x 128	16 x 42	0.325 x 0.325	83.08 x 41.48	131 x 66	5.0/850	-40 ~ 85	286-1056-ND	258.00	238.65	193.50	GU256X128C-3900
256 x 128	16 x 42	0.45 x 0.45	115.05 x 57.45	170 x 90	5.0/1200	-40 ~ 85	286-1057-ND	350.00	323.75	262.50	GU256X128D-3900
256 x 128	16 x 42	0.55 x 0.55	140.65 x 70.25	214 x 110	5.0/100	-40 ~ 70	286-1058-ND	422.00	390.35	316.50	GU256X128E-3900
Graphics Development Kit Without Display							286-1015-ND	200.00	185.00	150.00	GUD-ND
Graphics Development Kit for 3000 Series							286-1041-ND	288.72	267.07	216.54	GUD3000
Graphics Development Kit for 7000 Series							286-1042-ND	175.26	162.12	131.45	GUD7000
Graphics Software On CD-ROM							286-1016-ND	25.00	23.13	18.75	GUCD-1.0

* Also available in 6 x 8 and 8 x 16 depending on font size.

LCDs

Lumex Numbering System

L C D – S 4 0 1 C 4 0 T F – 1
1 (LCD) 2 (S) 3 (401C40) 4 (T) 5 (F) 6 (–) 7 (1)

1. Type of Display	Liquid Crystal Display
2. Operating Temperature	S = Standard (0°C ~ 50°C) H = High Temp (-30°C ~ 75°C)
3. Model Number	Alphanumeric and Numeric 401C40 =4 Character x 1 line, 0.40” 4x1C45 =4.5 Character x 1 line, 0.45” x - represent 1/2 column Matrix and Graphic Model 01602D =16 Characters x Lines, Dot Matrix
4. Fluid Type	T = Twisted Nematic (TN) S = Super Twisted Nematic (STN)
5. Polarizer Mode	R = Reflective F = Transflective
6. Display Mode	Default = Positive Image (No Letter), or if more Description Follows Use “-”; N = Negative Image
7. Viewing Direction	Default = 6 o’clock (No Number) 1 = 12 o’clock

Format	No. of Digits	Digit Size (mm)	Type (mm)	No. of Pins	Dual Row Spacing (mm)	Digi-Key Part No.	Price Each			Lumex Part No.
							1	5	10	
	2 1/2	12.17	2.54 Dip	16	28.67	67-1787-ND	1.78	1.65	1.48	LCD-S2X1C50TR
						67-1798-ND	1.78	1.65	1.48	LCD-S2X1C50TF
	3	7.87	2.54 Dip	24	18.10	67-1788-ND	1.66	1.54	1.38	LCD-S301C31TR
						67-1799-ND	1.66	1.54	1.38	LCD-S301C31TF
	3 1/2	12.70	2.54 Dip	40	33.00	67-1789-ND	3.78	3.50	3.14	LCD-S3X1C50TR/A
	3 1/2	12.70	2.54 Dip	40	33.18	67-1790-ND	3.78	3.50	3.14	LCD-S3X1C50TR/B
	4	9.92	1.27 Dip	40	24.64	67-1792-ND	2.96	2.74	2.46	LCD-S401C39TR
	4	13.20	2.54 Dip	40	32.39	67-1793-ND	4.20	3.89	3.49	LCD-S401C52TR
	4	18.00	2.54 Dip	40	40.01	67-1794-ND	4.54	4.20	3.77	LCD-S401C71TR
	4 1/2	8.89	2.54 Dip	40	24.45	67-1795-ND	3.04	2.82	2.53	LCD-S4X1C35TR
	6	17.99	2.54 Dip	50	40.14	67-1796-ND	7.26	6.72	6.03	LCD-S601C71TR
						67-1807-ND	7.26	6.72	6.03	LCD-S601C71TF

Overall Size (mm)	Active Area (mm)	Color	Typical Voltage	Current (mA)	Works with LCD Part No.	Digi-Key Part No.	Price Each			Lumex Part No.
							1	5	10	
Backlight — RoHS Compliant										
30.0 x 20.0	24.0 x 18.4	Green	2.2	25	67-1798-ND	67-1952-ND	2.50	2.32	2.08	SSB-CEL2417SUGC
114.0 x 28.8	100.4 x 25.2	Green	4.2	576	67-1807-ND	67-1953-ND	8.64	8.00	7.18	SSB-COB10025GW

Lumex Numbering System

L C M – S 0 1 6 0 2 D T F – 1
1 (LCM) 2 (S) 3 (01602) 4 (D) 5 (T) 6 (F) 7 (–) 8 (1)

1. Type of Display	Liquid Crystal Module
2. Operating Temperature	S = Standard (0°C ~ 50°C) H = High Temp (-20°C ~ 70°C)
3. Model Number	Dot Matrix and Graphic Model 01602 = 16 Character x 2 Lines 12864 = 128 Columns x 64 Rows
4. Display Type	D = Dot Matrix G = Graphic
5. Fluid Type	T = Twisted Nematic (TN) S = Super Twisted Nematic (STN)
6. Polarizer Mode	R = Reflective F = Transflective
7. Display Mode	Default = Positive Image (No Letter), or if more description follows use “-”; N = Negative Image
8. Viewing Direction	Default = 6 o’clock (No Number) 1 = 12 o’clock

LCD Graphic Modules

Features: • Standard Temperature Version

Built-in Controller	Dot Pixels W x H	Outline Dimension (mm) W x H x D	Viewing Area (mm) W x H	Pixel Size (mm) W x H	Pixel Pitch (mm) W x H	Back-light Type	Digi-Key Part No.	Price Each			Lumex Part No.
								1	5	10	
EPSON SED1520	122 x 32	84 x 44 x 12.70	60.50 x 18.50	.40 x .45	.44 x .49	LED	67-1782-ND	24.98	23.11	20.74	LCM-S12232GSF
SAMSUNG S6B0108	128 x 64	93 x 70 x 12.7	72 x 40	.48 x .48	.52 x .52	LED	67-1783-ND	47.80	44.22	39.68	LCM-S12864GSF
	128 x 64	75 x 52.7 x 10	60 x 32.5	.40 x .40	.43 x .43	LED	67-1784-ND	50.80	46.99	42.17	LCM-H12864GSF/H-Y
TOSHIBA T6963C	240 x 64	180 x 65 x 14	133 x 40	.49 x .49	.53 x .53	LED	67-1785-ND	91.80	84.92	76.20	LCM-S24064GSF
	240 x 128	144 x 104 x 15.1	114 x 64	.40 x .40	.45 x .45	LED	67-1786-ND	117.68	108.86	97.68	LCM-S240128GSF

Dot Matrix LCD Modules

Features:
- Standard Temperature Version
- Standard Pin Connections
- All the LCD's listed use a SAMSUNG controller P/N S6A0069

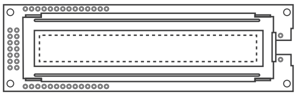

Display Format	Character Format	Pad Layout	Outline Dimension W x H x D (mm)	Viewing Area W x H (mm)	Character Size W x H (mm)	Dot Size W x H (mm)	Operating Temperature (°C)	Storage Temperature (°C)	Supply Voltage (V)	Digi-Key Part No.	Price Each			Lumex Part No.
											1	5	10	
Twisted Nematic, Reflective without LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	3.07 x 6.56	.55 x .75	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1778-ND	7.50	6.94	6.23	LCM-S01601DTR
16 x 2		Top	80 x 36 x 8.8	66 x 16	2.96 x 5.56	.56 x .66				67-1779-ND	9.28	8.59	7.71	LCM-S01602DTR/A
16 x 2		L Side	85 x 30 x 8.9	66 x 16	2.96 x 5.56	.56 x .66				67-1780-ND	9.28	8.59	7.71	LCM-S01602DTR/C
16 x 2		Bottom	66 x 26 x 6.5	52 x 19	2.46 x 5.56	.46 x .66				67-1781-ND	5.88	5.44	4.88	LCM-S01602DTR/M
Super Twisted Nematic, Reflective without LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 8.8	66 x 16	3.07 x 6.56	.55 x .75	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1767-ND	9.56	8.85	7.94	LCM-S01601DSR
16 x 2		Top	80 x 36 x 8.8	66 x 16	2.96 x 5.56	.56 x .66				67-1768-ND	10.34	9.57	8.59	LCM-S01602DSR/A
16 x 2		Bottom	84 x 44 x 8.8	66 x 16	2.96 x 5.56	.56 x .66				67-1769-ND	11.38	10.53	9.45	LCM-S01602DSR/B
16 x 2		L Side	85 x 30 x 8.9	66 x 16	2.96 x 5.56	.56 x .66				67-1770-ND	10.34	9.57	8.59	LCM-S01602DSR/C
16 x 2		Bottom	122 x 44 x 8.8	99 x 24	4.84 x 9.63	.92 x 1.16				67-1771-ND	15.50	14.34	12.87	LCM-S01602DSR/D
16 x 4		Top	87 x 60 x 8.9	65 x 25.6	2.95 x 4.75	.55 x .55				67-1772-ND	22.02	20.37	18.28	LCM-S01604DSR
20 x 2		L Side	116 x 37 x 8.9	85 x 18.6	3.2 x 5.55	.60 x .65				67-1773-ND	15.82	14.64	13.14	LCM-S02002DSR
20 x 4		Top	98 x 60 x 8.8	77 x 26.3	2.95 x 4.75	.55 x .55				67-1774-ND	23.98	22.19	19.91	LCM-S02004DSR
24 x 2		L Side	118 x 36 x 8.8	93.5 x 16	3.2 x 5.55	.60 x .65				67-1775-ND	16.46	15.23	13.67	LCM-S02402DSR
40 x 4		L Side	190 x 54 x 10	149 x 29.5	2.78 x 4.89	.50 x .55				67-1777-ND	57.28	52.99	47.55	LCM-S04004DSR
Super Twisted Nematic, Transflective with LED Backlight														
16 x 1	5 x 8 Dots	Top	80 x 36 x 12.7	66 x 16	3.07 x 6.56	.55 x .75	0°C ~ 50°C	-20°C ~ 70°C	5.0	67-1757-ND	12.62	11.68	10.48	LCM-S01601DSF
16 x 2		Top	80 x 36 x 12.7	66 x 16	2.96 x 5.56	.56 x .66				67-1758-ND	13.36	12.36	11.09	LCM-S01602DSF/A
16 x 2		Bottom	84 x 44 x 12.7	66 x 16	2.96 x 5.56	.56 x .66				67-1759-ND	13.98	12.94	11.61	LCM-S01602DSF/B
16 x 2		L Side	85 x 30 x 12.7	66 x 16	2.96 x 5.56	.56 x .66				67-1760-ND	13.36	12.36	11.09	LCM-S01602DSF/C
16 x 4		Top	87 x 60 x 12.7	62 x 25.6	2.95 x 4.75	.55 x .55				67-1761-ND	27.66	25.59	22.96	LCM-S01604DSF
20 x 2		L Side	116 x 37 x 12.7	85 x 18.6	3.2 x 5.55	.60 x .65				67-1762-ND	20.58	19.04	17.09	LCM-S02002DSF
20 x 4		Top	98 x 60 x 12.7	77 x 26.3	2.95 x 4.75	.55 x .55				67-1763-ND	31.50	29.14	26.15	LCM-S02004DSF
24 x 2		L Side	118 x 36 x 12.7	93.5 x 16	3.2 x 5.55	.60 x .65				67-1764-ND	21.28	19.69	17.67	LCM-S02402DSF
40 x 2		L Side	182 x 33.5 x 12.7	154 x 15.3	3.2 x 5.55	.60 x .65				67-1765-ND	37.14	34.36	30.83	LCM-S04002DSF
40 x 4		L Side	190 x 54 x 14.5	149 x 29.5	2.78 x 4.89	.50 x .55				67-1766-ND	67.48	62.42	56.01	LCM-S04004DSF

Color LCD TFT Modules 4.0” and 6.4” Modules

Take Standard NTSC Composite Video Signals

These high quality, low profile, 4.0” and 6.4” color LCD TFT modules can be used to view any NTSC composite video source such as the output from a VCR or one of our small Panasonic CCD cameras.

Operating Conditions:

- **Operating Voltage (Vop):** 10-30VDC, 12VDC typical
- **Operating Temperature (Top):** 0°C ~ 60°C
- **Storage Temperature (Tst): 4.0” Module:** -20°C ~ 80°C **6.4” Module:** -25°C ~ 80°C
- **Operating Humidity (Ho):** 85%RH
- **Storage Humidity (Hs):** 85% RH
- **Input Signal/NTSC Sync Negative** (Composite Video Signal: 1Vp-p/75Ω): **Vi:** 1Vp-p **fH:** 15.75KHz **fV:** 60Hz **fc:** 3.58MHz
- **Power Consumption (Pc): 4.0” Module:** 5W, **6.4” Module:** 7W

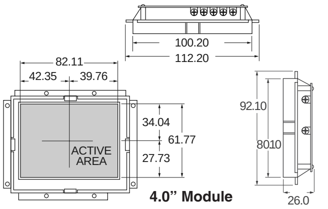

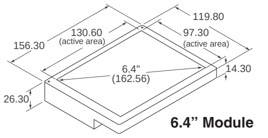

Interface Board

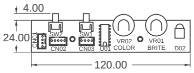

Display Size (inch)	Resolution (No. of lines)		Active Area (mm)		Dot Pitch (mm)		Weight (gm.)	Backlight*	Viewing Angle				Digi-Key Part No.	Price Each	Lumex Part No.
	Width	Height	Width	Height	Width	Height			Right	Left	Up	Down			
4.0	480	234	82.10	61.70	0.106	0.161	166 ±5	CCFT	45°	45°	10°	30°	67-1547-ND	299.00	LCM-480234GF-40CG
6.4	960	234	130.6	97.3	0.136	0.416	340 ±5	CCFT	50°	50°	10°	30°	67-1511-ND	497.53	LCM-960234GR-64FC

* 10,000 hour minimum at Tamb=25°C

red lion Counters and Timers

CUB3 and CUB3T

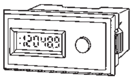

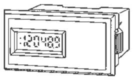

CUB3

The CUB3 is a battery-powered up counter for counting dry contact closures from switches or relay contacts. Built-in debounce circuitry ensures accurate counts up to 100Hz. It can also be used with transistor closures and has a reset button on the front of the counter.

CUB3T

The CUB3T is a time display that will count the length of time that the inputs are connected together. Inputs are triggered using a dry contact switch to start the timing circuit. Time indicators require a supply voltage of 10-300VAC or DC. Rear reset only.

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
CUB3 Count Indicator, 100Hz, Replaceable N Cell Battery	RLC03-ND	30.24	CUB30000
CUB3 Count Indicator, 100Hz, Built-in Lithium Battery	RLC04-ND	36.72	CUB3L000/A
Alkaline N Cell Battery for RLC03-ND	P147-ND	1.08	AM5X
CUB3T Time Indicator, 1 Hour or 60 Min., 10-300VAC or DC Input	RLC3TR-30-ND	45.36	CUB3T300
CUB3T Time Indicator, .1 Hour or 6 Min., 10-300VAC or DC Input	RLC3TR-31-ND	45.36	CUB3T310
CUB3T Time Indicator, .01 Hour or 60 Sec., 10-300VAC or DC Input	RLC3TR-32-ND	45.36	CUB3T320
CUB3T Time Indicator, .1 Min. or 6 Sec., 10-300VAC or DC Input	RLC3TR-33-ND	45.36	CUB3T330

CUB7 Series Counters and Timers

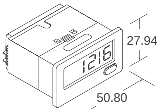

CUB7/CUB7W

The CUB7 and CUB7W are 8-digit miniature counters with large 0.35" (8.89 mm) high digits. The LCD read-out is available in Positive Image Reflective, Negative Image Transmissive with yellow/green or red LED backlighting. The backlight version requires an external 9-28VDC power supply. The CUB7 series is housed in a lightweight, high-impact plastic case with a clear viewing window. The sealed front panel with the silicone rubber reset button meets NEMA 4X/IP65 specifications for wash-down and/or dusty environments when properly installed. The CUB7W accepts most machine control voltage signals. The input accepts AC or DC control voltages from 10-300V at count speeds up to 30 counts per second (cps).

Features:

- Replaceable internal lithium battery provides up to 7 years of uninterrupted operation • Front panel reset or remote reset • Connections: Wire clamping screw terminals • Fits DIN standard cut-out 1.77" (45 mm) x 0.874" (22.2 mm)
- Low speed count to 30Hz from switch closure or O.C. transistor; High speed count to 10KHz (CUB7)

CUB7T

Features:

• 10 programmable timer ranges • 8-digit LCD reflective display with "Timer Active" annunciator • 0.35" (8.89mm) high digits • Available in either contact or voltage versions • Replaceable internal lithium battery provides up to 6 years of uninterrupted operation • Both front panel program and rest buttons are individually enabled • Connections: Wire clamping screw terminals • Front panel and remote reset inputs • NEMA 4X/IP65 sealed front bezel

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
CUB7 Counter, Reflective LCD, Dry-contact Input	RLC700-ND	51.84	CUB70000
CUB7 Counter, Yellow/Green Backlight LCD, Dry-contact Input	RLC701-ND	73.44	CUB70010
CUB7 Counter, Red Backlight LCD, Dry-contact Input	RLC702-ND	73.44	CUB70020
CUB7 Counter, Reflective LCD, 10-300VAC or DC Input	RLCW70-ND	56.16	CUB7W000
CUB7 Counter, Yellow/Green Backlight LCD, 10-300VAC or DC Input	RLCW71-ND	77.76	CUB7W010
CUB7 Counter, Red Backlight LCD, 10-300VAC or DC Input	RLCW72-ND	77.76	CUB7W020
CUB7 Time Indicator, Reflective LCD, Dry-contact Input.	RLC7T0-ND	39.19	CUB7T000
CUB7 Time Indicator, Reflective LCD, 10-300VAC or DC Input	RLC7T1-ND	39.19	CUB7T100

SUB-CUB 1 and 2 Counters

SUB-CUB 1 and 2

SUB-CUB 1 and 2 are component-type up counters designed to be snapped down onto a standard 1/16" PCB. Solderless elastomeric pads contact copper pads on the PCB for inputs, reset and display latch and test functions. Solderless connections are corrosion-proof, gas-tight interface contacts for high reliability. Ultra low power (5V at 15µA typical) and latchable display with automatic leading zero blanking. Ideal in applications for register status and usage, maintenance, diagnostics, time-duration or period readouts.

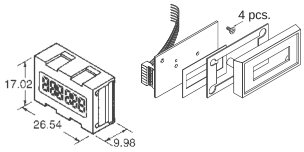

SUPER SUB-CUB

SUPER SUB-CUB provides all the capabilities of SUB-CUB 1 and 2, plus four operating modes capable of bi-directional counting, quadrature counting, coincidence counting and anti-coincidence adding and subtracting. Optional bezel mounting kit provides a crisp, clean panel-mount option for panel-mounted applications.

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
SUB CUB I and II			
Evaluation Kit for Counter Testing (Counter Sold Separately)	RLC01-ND	56.16	DM-OSC-B01/A
Mounting PCB for Display Counter to Evaluation Kit	RLC02-ND	10.80	DM-OSC-B02/A
Display Counter, .2" (5.08mm) High Digits	RLC1000-ND	23.76	SCUB-1000
Display Counter, .35" (8.89mm) High Digits	RLC2000-ND	30.24	SCUB-2000
Panel Bezel Kit with PCB and Cable for RLC2000-ND	RLC40-ND	21.60	HWK-40-000/A
SUPER SUB CUB			
SUPER SUB-CUB Display/Counter Module	RLC200A-ND	41.04	SSCUB200
SUPER SUB-CUB Prototype PCB	RLC08-ND	15.12	DM-OSC-B03/A
Panel Bezel Kit without PCB or Cable for RLC05-ND, RLC07-ND, RLC2-8A-ND, RLC200A-ND and RLC2000-ND	RLC30-ND	10.80	HWK-30-000/A
Panel Bezel Kit with PCB and Cable for RLC200A-ND	RLC50A-ND	25.92	HWK-50-000/A

CUB5 Series

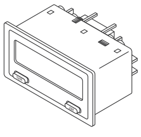

The CUB5 provides the ultimate in flexibility, from its complete user programming to the optional relay output capability. The meter can be programmed as a single or dual counter with rate indication capability. As a dual counter, each counter has a separate scale factor and decimal point. In the counter/rate indicator mode, each has its own scaling and decimal point read-out in different engineering units. The display can be toggled either manually or automatically between the selected displays. The CUB5 can be powered from an optional Red Lion Micro-Line/Sensor Power Supply (RLC124-ND) which attaches directly to the back of the CUB5. The RLC124-ND is powered from 85- 250VAC and provides up to 400mA to drive the unit and sensors.

Features: • 0.46" (11.7mm) high digits • Reflective and backlight LCD versions: backlight version user selectable for green or red backlighting with variable display intensity • Counter programmable for one of 8 different count modes, including bi-directional and quadrature • Non-volatile E_2PROM memory retains all programming parameters and count values when power is removed • Meters can be fitted with an optional plug-in relay card which can be installed initially or at a later date

Specifications: • Display: 0 ~ 999999 • Over Range Display: "R OLOLOL" • Maximum Frequency: 20KHz; Minimum Frequency: 0.01Hz • Accuracy: ±0.01% • Operating Temperature: -35°C ~ 85°C • Connections: Wire clamping screw terminals • Count/Rate Signal Input A: DIP switch selectable to accept pulses from variety of sources; Input B: Logic signals only

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
CUB5 Dual Counter and Rate Indicator, Reflective Display	RLC121-ND	99.84	CUB5R000
CUB5 Dual Counter and Rate Indicator, Red-Green Backlight Display	RLC122-ND	111.28	CUB5B000
Setpoint Relay Option Card, SPDT, 1A Output	RLC123-ND	26.00	CUB5RLY0
Micro-Line/Sensor Power Supply	RLC124-ND	40.30	MLPS1000

MDMU Counter/Timer/Tach

Panel Mount

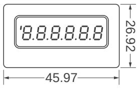

Circuit Board Mount

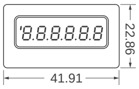

The MDMU is a complete 6-digit counter/timer/tach in a small panel mounted or printed circuit board (PCB) mounted package. It is designed to operate from a 5VDC power supply. It has a 6-digit LCD with 0.35" (8.89mm) high digits and 5 selectable decimal points. In the timer mode, a flashing annunciator is supplied to indicate that the signal input of the MDMU is active. The displays are available in Positive Image Reflective (black digits, reflective background) or Negative Image Transmissive (illuminated digits, dark background) with red or yellow/green backlighting.

Counter Mode: It can be selected by setting the Mode Select Inputs to the appropriate levels (Hardware selection). A rate multiplier of 0.0001 ~ 1.9999 and a decimal point of 0 through 0.00000 can be selected using the Program mode. Decimal points may also be set using the DP Inputs (Hardware selection). Both the Count (CNT) and LSC Inputs can be used. (Using the Program mode option causes the counter to increment on the opposite edge of the Input signal.)

Timer Mode: This mode and range can be selected by either setting the Mode Select Inputs to the appropriate levels (Hardware selection) or by selecting the range in the Program mode. The available timing range increments are 1 msec, 10 msec, 100 msec, 1 second, 0.1 minute, 1 minute, 0.01 hour, 0.1 hour, 1 hour, and hr:min:sec. The Timer Active annunciator will flash at a 2Hz rate when the input to the timer is activated. Both the CNT and the LSC inputs can be used. The Inhibit (INH) Input can be used to enable or disable Leading Zero Blanking (LZB).

Tach Mode: It can be selected by setting the Mode Select Inputs to the appropriate levels (Hardware selection). In the Tach mode, the MDMU operates as a fixed 1 second time base tachometer. In the Program mode, the time base can be set 1 through 7 seconds (in whole second increments). The rate multiplier can also be programmed from 0.0001 through 1.9999. Decimal points can be set from 0 through 0.00000. Decimal points may also be set using the DP Inputs. Both the CNT and the LSC Inputs can be used.

Features: • LCD: Positive Image Reflective or Negative Image Transmissive with yellow/green or red LED backlighting • Counter, timer and tach all in a single unit • Rate multiplier/prescaler from 0.0001 ~ 1.9999 in count and tach modes • 10 ranges in timer mode • Selectable decimal points • 5VDC powered • Panel mount or PCB mount

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
Counter/Timer/Tach, Reflective Display, Panel Mount	RLCU00-ND	37.80	MDMU0000
Counter/Timer/Tach, Yellow Backlight Display, Panel Mount	RLCU01-ND	48.60	MDMU0010
Counter/Timer/Tach, Red Backlight Display, Panel Mount	RLCU02-ND	48.60	MDMU0020
Counter/Timer/Tach, Reflective Display, PCB Mount	RLCU10-ND	34.56	MDMU0100
Counter/Timer/Tach, Yellow Backlight Display, PCB Mount	RLCU11-ND	45.36	MDMU0110
Counter/Timer/Tach, Red Backlight Display, PCB Mount	RLCU12-ND	45.36	MDMU0120
MDM Cable Assembly	RLC70-ND	12.96	HWK70000

SUB-CUB 2-8A, D and T

SUB-CUB 2-8A

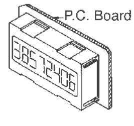

The SUB-CUB 2-8A is a completely self-contained 8-digit counter module for high speed counting, with counting rates to 750KHz. Counters are designed to be snapped down onto a standard 1/16" PCB. Solderless elastomeric pads contact copper pads on the PCB for inputs, reset and display latch and test functions. Solderless connections are corrosion-proof, gas-tight interface contacts for high reliability.

SUB-CUB D

The SUB-CUB D is a 6-digit up/down counting, true quadrature counter. Mode select inputs and add, subtract, multiply and divide functions make this counter extremely flexible for different frequencies.

SUB-CUB T

The SUB-CUB T is a selectable counter/timer display. Counter mode is selectable for either low count input (with debounce) or high speed inputs (without debounce). In the timer mode, the unit is selectable in 4 timer modes from hours down to .1 minute resolution. Optional bezel mounting kit provides a crisp, clean panel-mount option for panel-mounted applications.

Description	Digi-Key Part No.	Price Each	Red Lion Part No.
SUB-CUB 2-8A			
8-Digit LCD component up counter	RLC2-8A-ND	36.00	SCUB28A0
Panel Bezel Kit with PCB and Cable for RLC2-8A-ND	RLC28-ND	23.76	HWK-28-000/A
SUB-CUB D			
8-Digit Bi-directional Module with 6-Digit LCD Display	RLC05-ND	32.40	SCUBD-200/A
SUB-CUB D Prototype PCB	RLC09-ND	15.12	DM-OSC-B04/A
SUB-CUB T			
5 Digit Timer/Counter	RLC07-ND	31.32	SCUBT-200/A
Panel Bezel Kit without PCB or Cable for RLC05-ND, RLC07-ND, RLC2-8A-ND, RLC200A-ND and RLC2000-ND	RLC30-ND	10.80	HWK-30-000/A

Miniature Display D.C. Voltmeter

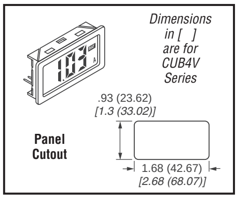

MDMV Series: **SPECIFICATIONS:** • Display: 3-1/2-digit, 0.4" (10.2mm) high digits. A minus (-) sign is displayed when voltage is negative • Decimal Points: Selectable decimal points are activated at the rear terminal pins to allow the display to be read in tenths, hundredths or thousandths • Annunciators: 5 selectable annunciators, BAT, V, A, μ and m are activated at the appropriate rear terminal • Power Requirements: 4.8VDC ~ 6VDC @ 5mA Maximum • Input Range: 0 to ±199.9m VDC • Over-range Indication: Over-range is indicated by a "1" displayed in the most significant digit and the blanking of the three least significant digits • Reading Rate: 2 1/2 readings per second • Common Mode Rejection Ratio: 70dB • Input Impedance: 1000MΩ • Operating Range: 0°C ~ 60°C

CUB4V Series: **SPECIFICATIONS:** • LCD, positive reflective or negative transmissive with yellow/green or red backlighting • Four selectable D.C. ranges (0-199.9 mV, 1.999 V, 19.99 V, 199.9 V) • 0.6" (15.24mm) high LCD digits • Built-in scaling provided • Auto-zeroing circuit • Selectable decimal points • Wire connections made via screw clamp type terminals • Fits DIN standard cut-out 2.68" (68mm) x 1.30" (33mm) • NEMA 4X/IP65 sealed front panel bezel • 9 ~ 28VDC powered

Description	Digi-Key Part No.	Price Each		Red Lion Part No.
		1	5	
MDMV Series				
Panel Mt., Reflective Display	RLC000-ND	40.00	39.00	MDMV0000
Panel Mt.,Ylw./Grn. Backlight Display	RLC010-ND	52.00	50.70	MDMV0010
Panel Mt., Red Backlight Display	RLC020-ND	52.00	50.70	MDMV0020
PC Board Mt., Reflective Display	RLC100-ND	36.80	35.88	MDMV0100
PC Board Mt.,Ylw./Grn. Backlight Display	RLC110-ND	49.60	48.36	MDMV0110
PC Board Mt., Red Backlight Display	RLC120-ND	49.60	48.36	MDMV0120
MDM Cable Assembly	RLC70-ND	12.96	12.64	HWK70000
CUB4V Series				
DC Voltmeter	RLC4V0-ND	97.50	—	CUB4V000
DC Voltmeter,Ylw./Grn. Backlight Display	RLC4V1-ND	107.98	—	CUB4V010
DC Voltmeter, Red Backlight Display	RLC4V2-ND	107.98	—	CUB4V020

NEW! LD Series Large Display Counters and Timers

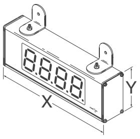

Red Lion's low cost large digit display's are available in either large 2.25" (57.15mm) red LED digit height or very large 4.0" (101.60mm) red LED digit height. Choose either a single counter function or single timer function that is housed in a NEMA 4 case construction and features adjustable brightness control, 85 ~ 250VAC power input and selectable high or low frequency (0.01 Hz ~ 35KHz) inputs. Perfect for industrial settings such as factory displays, outside displays or long distance displays.

Description	Dimension - Inch (mm)		Digi-Key Part No.	Price Each	Red Lion Part No.
	X	Y			
2.25" (57.15mm) High 4 Digit Red LED Counter, 120VAC	12.0 (304.8)	4.0 (101.6)	RLC117-ND	358.80	LD200400
4.0" (101.60mm) High 4 Digit Red LED Counter, 120VAC	20.0 (508.0)	7.875 (200.0)	RLC118-ND	504.40	LD400400
2.25" (57.15mm) High 6 Digit Red LED Timer, 120VAC	16.0 (406.4)	4.0 (101.6)	RLC119-ND	468.00	LD2T06P0
4.0" (101.60mm) High 6 Digit Red LED Timer, 120VAC	26.0 (660.4)	7.875 (200.0)	RLC125-ND	660.40	LD4T06P0

PAX Lite Meters

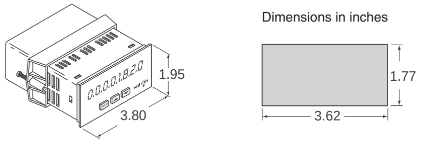

PAX LITE DC Current and Voltmeters – PAX Lite Current and Volt Meters are premium quality instruments designed for tough industrial applications. With multi-range capability, built-in provision for scaling, and DIP switch selectable decimal points, these meters offer the ultimate in application flexibility. Two models cover your voltage and current indicator needs. The meter can provide direct readout from pressure, speed or flow transducers, or any other variable that can be translated to voltage or current. The built-in scaling allows the display to be scaled to the desired engineering unit.

SPECIFICATIONS: • **Power**: 115/230VAC, switch selectable, 50/60 Hz • **Input Ranges/Resolution**: Selectable by jumper connections • **Accuracy**: • DC Voltmeters: 1 mV, 10 mV, 100 mV or 1 V • DC Current Meters: 199.9 μA/199.9 mV, 1.999 mA, 19.99 mA, 199.9 mA or 1.999 A • **Over-Range Indication**: on all modes is indicated by blanking 3 least significant digits

RLC105-ND (PAXLID00) PAX LITE DC Current, 3 1/2-Digit, LED Meter.............. **$107.12**
RLC107-ND (PAXLVD00) PAX LITE DC Voltmeter, 3 1/2-Digit, LED Meter **$107.12**

PAX LITE 600 VAC Voltage Monitor – The Model PAXLHV is designed for AC voltage monitoring. The half-wave rectified input signal is calibrated to indicate the RMS value of a pure sinusoidal wave-form. The front bezel meets NEMA 4X/IP65 requirements when properly installed.

SPECIFICATIONS: • **Power**: 115/230VAC, switch selectable, 50/60 Hz • **Input Range**: 0 ~ 600VAC maximum • **Resolution**: 1VAC • **Operating Temperature Range**: 0°C ~ 60°C • **Reading Rate**: 400 msec., nominal • **Response Time**: 1 second nominal for a step change input

RLC111-ND (PAXLHV00) AC Voltage Monitor, 3-Digit, LED Meter.............. **$151.84**

PAX LITE 5A AC Current Meter – PAXLIT 5 Amp AC Current Meter provides the capability of measuring large AC currents. The internal current shunt in the PAXLIT can measure up to 5 Amps AC current directly. Using an external current transformer, AC currents of up to 1,999 Amps can be measured and displayed. The PAXLIT can be scaled, using the scaling potentiometer to display between 200 and 1999 when measuring full scale current. Using the DIP switch selectable decimal points, the display can be customized for direct readout for practically any application

SPECIFICATIONS: • **Display**: 3 1/2-digit, 0.56" (14.2 mm) high, 7-segment LED; Decimal points inserted before 1st, 2nd, or 3rd least significant digits by DIP switch selection. • **Power**: 115/230VAC, switch selectable, 50/60 Hz • **Range**: 0 ~ 5 Amps AC @ 45 ~ 400 Hz • **Accuracy**: ±(0.5% of reading + 5 digits) • **Over-Range Indication**: indicated by blanking 3 least significant digits • **Maximum Shunt Current**: 50 Amps for 1 second; 8 Amps continuous • **Operating Temperature**: 0°C ~ 60°C

RLC109-ND (PAXLIT00) PAX LITE Large AC Current, 3 1/2-Digi, LED Meter.............. **$151.84**

PAX LITE Counter – The PAX Lite Counter, Model PAXLC, is a versatile totalizing counter that can be adapted to a wide variety of counting, measuring and positioning readout applications. The unit features a programmable scale factor, front panel and remote reset, store, inhibit and a count rate of 25 KHz, while offering an economical solution to any totalizing need. The PAXLC accepts digital inputs from a variety of sources including switch contacts, NPN-OC and TTL outputs, as well as most standard Red Lion sensors. The input can be scaled to display any desired unit of measure by simply using the programmable scale factor.

SPECIFICATIONS: • Overflow indicated by flashing dot to the right of digit. Decimal points are programmed by front panel keys. • **AC Power**: 115/230VAC, switch selectable, 50/60 Hz • **DC Power**: 10 ~ 16VDC @ 0.1 A maximum • **Keypad**: 3 programming keys, the (Down Arrow) key can also function as the front panel reset button • **Count Input**: DIP switch selectable • **Filter**: Damping capacitor provided for switch contact bounce. Limits input frequency to 50 Hz and input pulse widths to 10 msec. minimum • **Maximum Count Rate**: 25 KHz maximum

RLC102-ND (PAXLC800) PAX LITE Counter, 8-Digit, LED Meter **$157.04**

PAX LITE Rate Meter – The PAX Lite Rate Meter, Model PAXLR, provides the versatility and flexibility needed to accommodate virtually any rate measuring application. The meter has the ability to scale for direct readout in terms of the units being measured. Whether a machine produces bottles, cloth, wire or beverage mix, operation is enhanced when the rate readout is expressed directly in bottles/minute, feet/minute, gallons/minute or whatever units are needed in plant applications. The PAXLR can accommodate magnetic pickups, logic sensors and NPN open collector sensors. The meter is programmed through both the front panel buttons and DIP switches. Once the programming is complete, the front panel buttons can be disabled by a DIP switch setting.

SPECIFICATIONS: • Decimal points are programmed by front panel keys. • **AC Power**: 115/230VAC, switch selectable, 50/60 Hz • **DC Power**: 10 ~ 16VDC @ 0.1 A maximum • **Keypad**: 3 programming keys; Outputs, Magnetic Pickups and all standard Red Lion sensors • **Input Frequency Range**: • Maximum Frequency: 25 KHz • Minimum Frequency: 0.01 Hz • Accuracy: ±0.01% • **Memory**: Nonvolatile E2PROM retains all programmable parameters and display values. • **Operating Temperature**: 0°C ~ 60°C

RLC103-ND (PAXLR000) PAX LITE Rate, 6-Digit, LED Meter **$145.60**

PAX LITE Process Time Meter – The PAX Lite Process Time Meter, Model PAXLPT, displays a value representing the time between a beginning and end point of a process, such as a conveyor oven. The PAXLPT's display will update inversely in relation to the input signal frequency. As input frequency increases (representing speed), the PAXLPT time display will decrease indicating a reduction in the duration of process time. For example, the bake time through an oven will decrease the faster the conveyor runs. The display can be programmed for two operating modes. Operating in the 6 digit mode, the PAXLPT can readout in any whole value, such as seconds, minutes or hours. This mode also provides capability for decimal points. The 5 digit mode functions as a chronometer, which has a maximum display value of 999-59. This formats the display to allow the meter to readout in hours and minutes, minutes and seconds, etc.

SPECIFICATIONS: • **AC Power**: 115/230VAC, switch selectable, 50/60 Hz • **DC Power**: 10 ~ 16VDC @ 0.1 A maximum • **Keypad**: 3 programming keys • **Input**: DIP switch selectable; accepts pulses from a variety of sources including NPN-OC, PNP-OC, TTL Outputs, Magnetic Pickups and all standard Red Lion sensors. • **Maximum input voltage:** ±40 V peak, 30 Vrms • **Input Frequency Range**: • Maximum frequency: 25 KHz • Minimum frequency: 0.05 Hz • Accuracy: ±0.02% • **Memory**: Nonvolatile E2PROM retains all programmable parameters. • **Operating Temperature**: 0°C ~ 60°C

RLC104-ND (PAXLPT00) PAX LITE Process Time, 6-Digit, LED Meter **$215.28**

PAX LITE Current Loop Meter – With its high sensitivity and programmability, the PAX Lite Current Loop Meter can be set up for a wide variety of applications. In most plants the PAXLCL can be used for 90 to 95% of current loop meter needs for readout of pressure, flow, temperature, level and other variables. The meter has been specifically designed for harsh industrial environments.

SPECIFICATIONS: • **Over-Range Indication**: Indicated by blanking 3 least significant digits • **Power**: AC Power: 85 ~ 250 VAC, 50/60 HZ, 6 VA • **Isolation**: 2300 Vrms for 1 minute between input and supply (300 V working voltage) • **Input Sensitivity**: (Numerical Readout Change/mA) 260 units/mA @ 4 ~ 20 mA input, 105 units/mA @ 10 ~ 50 mA input (maximum allowable input current, 170 mA) • **Input Resistance**: 4 ~ 20 mA - 29.2 Ω, 10 ~ 50 mA - 11.8 Ω • **Span**: 32 coarse steps (binary progression with 5 DIP switches) Each step providing approximately 8.125 numerical units/mA/step sensitivity for 4 ~ 20 mA input and 3.25 units/mA/step for 10 to 50 mA input.

RLC112-ND (PAXLCL00) PAX LITE Current Loop, 3 1/2-Digit, LED Meter **$151.84**

PAX LITE Process Voltage Meter – With its high sensitivity and programmability, the PAX Lite Process Volt Meter can be set up for a wide variety of applications. In most plants the PAXLPV can be used for 90 to 95% of Process Volt meter needs for readout of pressure, flow, temperature, level and other variables. The meter has been specifically designed for harsh industrial environments.

SPECIFICATIONS: • **Over-Range Indication**: Indicated by blanking 3 least significant digits • **AC Power**: 85 ~ 250VAC, 50/60 HZ, 6 VA • **Input Sensitivity**: (Numerical Readout Change/Volt) Adjustable from 40 units/volt to 1000 units/volt, maximum allowable input voltage, ±25 volts DC • **Scaling Range**: • Span: 32 coarse steps *(binary progression with 5 DIP switches),* each step providing approximately 40 numerical units/volt/step sensitivity. Fine adjust brackets the coarse step increments. • Offset: 16 coarse steps *(binary progression with 4 DIP switches)* with ± switch to add or subtract offset. Each step adds or subtracts approximately 175 from the numerical display for a total offset range of ±2700. Fine control brackets the steps. • **Linearity**: ±(0.05% ±1 digit) • **Reading Rate**: 2.5 updated readings / second, nominal • **Response Time**: 1 second to settle for step change • **Operating Temperature**: 0°C ~ 60°C

RLC113-ND (PAXLPV00) PAX LITE Process Voltage, 3 1/2-Digit, LED Meter **$151.84**

PAX LITE RTD Meter – The Pax Lite RTD Meter accepts standard RTD inputs and precisely linearizes them into temperature readings. A full 4-digit display accommodates a wide range of temperature inputs. State-of-the-art digital circuitry virtually eliminates errors due to drift. The meter features a readout choice of either Fahrenheit or Celsius with 0.1 or 1 degree resolution. English Style display prompts and front panel buttons aid the operator through set-up and operation.

SPECIFICATIONS: • **Power**: 85 ~ 250VAC, 50/60 Hz • **Controls**: Three front panel push buttons for meter set-up; rear terminal input for disabling the front panel • **Resolution**: 0.1 or 1 degree • **Range**: Decimal Point Dependent 0.1° res: -199.9°C ~ 850.0 °C (-199.9°F ~ 999.9 °F); 1° res: -200°C ~ 850 °C (-328°F ~ 1562 °F) • **Open/Shorted RTD Detection**: Display flashes: "OLOL" or "OLUL" • **Accuracy**: 0.3°C, @ 23°C and 30 minutes warm-up • **Reading Rate**: 2.5 readings/second • **Response Time**: 2 seconds to settle for step input (increases with programmable digital filtering) • **Low Frequency Noise Rejection**: • Normal Mode Rejection: 40 dB @ 50/60 Hz (may be improved by programmable digital filtering) • **Common Mode Rejection:** 120 dB, DC to 50/60 Hz. • **Operating Temperature Range**: 0°C ~ 50°C

RLC115-ND (PAXLRT00) PAX LITE RTD, 4-Digit, LED Meter.............. **$189.28**

PAX LITE Thermocouple Meter – The Pax Lite Thermocouple Meter accepts inputs from standard thermocouples and precisely linearizes them. A full 4-digit display accommodates a wide range of temperature inputs. The unit automatically compensates for cold junction, NBS linearity and the meter's zero and span. The meter features a readout choice of either Fahrenheit or Celsius with 0.1 or 1 degree resolution. English Style display prompts and front panel buttons aid the operator through set-up and operation. With a few simple steps the unit can be used as a millivolt meter by selecting "UOLE" for thermocouple type.

SPECIFICATIONS: • Overrange/Underrange Input: Flashing "OLOL" or "OLUL" • **Power**: 85 ~ 250VAC, 50/60 Hz, 6 VA Isolation: 2300 Vrms for 1 minute between input and supply (300 V working voltage) • **Controls**: Three front panel push buttons for meter set-up; rear terminal input for disabling the front panel • **Thermocouple Types**: T, E, J, K, R, S, B, N or mV scale • **Resolution**: 1 degree for all types, or 0.1 degree for T, E, J, K and N only

RLC116-ND (PAXLTC00) PAX LITE Thermocouple, 4-Digit, LED Meter **$189.28**

PRD Plastics Bezels

- Bezel material is polystyrene plastic
- Recommended panel thickness for mounting snap-fit bezel is 8.13mm ~ 3.18mm

Digi-Key Part No.	Dimensions (mm) A	B	Panel Cut-Out For Snap Fit Bezel Height	Width
PRD180B-ND	58.74	45.72	26.99	52.39
PRD250B-ND	76.20	63.50	26.99	69.85
PRD360B-ND†	104.78	91.44	26.99	98.43

† PRD360B-ND has 4 snap-on plastic clip bars

Snap-Fit Bezel (Lenses must be ordered separately.)

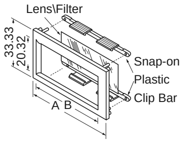

Lo-Profile Polycarbonate/ABS with Non-Removable Lens (requires adhesive strips)

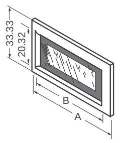

Description	Digi-Key Part No.	Price Each 1	10	100	PRD Plastics Part No.
Snap Fit Bezels (Lenses Must Be Ordered Separately)					
45.72mm Wide Bezel Black Plastic	PRD180B-ND	1.71	1.43	1.14	6101010
63.50mm Wide Bezel Black Plastic	PRD250B-ND	2.10	1.75	1.40	6102010
91.44mm Wide Bezel Black Plastic	PRD360B-ND	2.46	2.05	1.64	6103010
For Use With LCDs					
Clear Lens for 45.72mm Bezel	PRD180C-ND	1.53	1.28	1.02	6201010
Clear Lens for 63.50mm Bezel	PRD250C-ND	1.71	1.43	1.14	6202010
Clear Lens for 91.44mm Bezel	PRD360C-ND	1.92	1.60	1.28	6203010
For Use With LEDs					
Smoke Lens for 45.72mm Bezel	PRD180S-ND	1.53	1.28	1.02	6201020
Smoke Lens for 63.50mm Bezel	PRD250S-ND	1.71	1.43	1.14	6202020
Smoke Lens for 91.44mm Bezel	PRD360S-ND	1.92	1.60	1.28	6203020
Red Lens for 45.72mm Bezel	PRD180R-ND	1.53	1.28	1.02	6201030
Red Lens for 63.50mm Bezel	PRD250R-ND	1.71	1.43	1.14	6202030
Red Lens for 91.44mm Bezel	PRD360R-ND	1.92	1.60	1.28	6203030
Green Lens for 45.72mm Bezel	PRD180G-ND	1.53	1.28	1.02	6201040
Green Lens for 63.50mm Bezel	PRD250G-ND	1.71	1.43	1.14	6202040
Green Lens for 91.44mm Bezel	PRD360G-ND	1.92	1.60	1.28	6203040
Masked Lenses					
25.40mm x 22.23mm Window for 45.72mm	PRD180W-ND	1.53	1.28	1.02	6201050
60.96mm x 16.00mm Window for 63.50mm	PRD250W-ND	1.71	1.43	1.14	6202050
65.41mm x 13.79mm Window for 63.50mm	PRD250W1-ND	1.71	1.43	1.14	6202060
83.01mm x 18.59mm Window for 91.44mm	PRD360W-ND	1.92	1.60	1.28	6203050
93.35mm x 15.80mm Window for 91.44mm	PRD360W1-ND	1.92	1.60	1.28	6203060

* Requires Adhesive Strips (recommend 2 pads for the 91.44mm Bezel)

Description	Digi-Key Part No.	Price Each 1	10	100	PRD Plastics Part No.
Lo-Profile Polycarbonate/ABS					
Lo-Profile For LCDs *					
45.72mm Bezel with Clear Lens	PRD180LP-ND	3.39	2.83	2.26	6301010
45.72mm Bezel and Clear Lens with 25.40mm x 22.23mm Window	PRD180LPW-ND	3.39	2.83	2.26	6301020
63.50mm Bezel with Clear Lens	PRD250LP-ND	3.81	3.18	2.54	6302010
63.50mm Bezel with Clear Lens with 60.96mm x 16.00mm Window	PRD250LPW-ND	3.81	3.18	2.54	6302020
63.50mm Bezel with Clear Lens with 65.41mm x 13.79mm Window	PRD250LPW1-ND	3.81	3.18	2.54	6302030
91.44mm Bezel with Clear Lens	PRD360LP-ND	4.35	3.63	2.90	6303010
91.44mm Bezel with Clear Lens with 83.01mm x 18.59mm Window	PRD360LPW-ND	4.35	3.63	2.90	6303020
91.44mm Bezel with Clear Lens with 93.35mm x 15.80mm Window	PRD360LPW1-ND	4.35	3.63	2.90	6303030
Lo-Profile For LEDs *					
45.72mm Bezel with Smoke Lens	PRD180LPS-ND	3.39	2.83	2.26	6301040
45.72mm Bezel with Red Lens	PRD180LPR-ND	3.39	2.83	2.26	6301050
45.72mm Bezel with Green Lens	PRD180LPG-ND	3.39	2.83	2.26	6301060
63.50mm Bezel with Smoke Lens	PRD250LPS-ND	3.81	3.18	2.54	6302040
63.50mm Bezel with Red Lens	PRD250LPR-ND	3.81	3.18	2.54	6302050
63.50mm Bezel with Green Lens	PRD250LPG-ND	3.81	3.18	2.54	6302060
91.44mm Bezel with Smoke Lens	PRD360LPS-ND	4.35	3.63	2.90	6303040
91.44mm Bezel with Red Lens	PRD360LPR-ND	4.35	3.63	2.90	6303050
91.44mm Bezel with Green Lens	PRD360LPG-ND	4.35	3.63	2.90	6303060
Accessories					
Adhesive Strips 2/Pad	PRDAS-ND	.31	.30	.28	6000010

Jewell Instruments MODUTEC

Big - Little Digital Panel Meters

Fig. 1

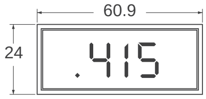

Fig. 2

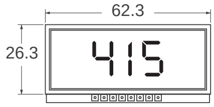

BL Series Specifications:

Display:

- Digits: 3 1/2 digits, 7 segments backlit LCD (1999)
- Digit Height: 0.5" (12.7mm)
- Polarity: Automatic (-) displayed
- Decimal Point: Three positions, external selection
- Overload: Three lower digits blank for readings greater than 1999
- Low battery: "Low Bat" indicator for <7.2V (9V power only)

Performance:

- Accuracy: ±(0.1% rdg + 2 count) with + 5 and ±5V power ± (0.1% rdg + 1 count) with 9V power 2.5 per second
- Conversion Rate: 2.5 per second
- Common Mode Voltage Range: ± 1V maximum
- Common Mode Rejection: > 86db
- Zero Adjust: Automatic
- Tempco: 100PPM/°C typical

Standard Analog Inputs:

- Full Scale Range: Choice ±200mV, ±2V, or ±20V (Special ranges and engineering units available)
- Configuration: True differential input and references
- Ratiometric Operation: Available on models BL-100, -130, -300, -330, -400, -430, -500, -530, -600, and -630
- Protection: 250VDC or 150V RMS continuous 300V intermittent maximum
- Bias Current: 1pA typical, 10pA maximum
- All backlighting power is + 5VDC

Display	Mounting	DPM Power	Input	Digi-Key Part No.	Price Each 1	5	10	Modutec Part No.
Fig. 1 — 13 Pin Terminals Backlit Power 5VDC								
Negative Red Backlit	Bezel	+5VDC	0 - 2VDC	180-1002-ND	86.94	84.77	82.60	BL-530302-01-U
	Bezel	+5VDC	0 - 200mVDC	180-1003-ND	86.94	84.77	82.60	BL-530301-01-U
	Window	+5VDC	0 - 2VDC	180-1004-ND	83.36	81.28	79.20	BL-500302-01-U
	Window	+5VDC	0 - 200mVDC	180-1005-ND	83.36	81.28	79.20	BL-500301-01-U
	Window	9VDC	0 - 2VDC	180-1006-ND	83.36	81.28	79.20	BL-500102-01-U
	Window	9VDC	0 - 200mVDC	180-1007-ND	83.36	81.28	79.20	BL-500101-01-U
Negative Green Backlit	Window	+5VDC	0 - 2VDC	180-1008-ND	80.96	78.94	76.92	BL-400302-01-U
	Window	+5VDC	0 - 200mVDC	180-1009-ND	80.96	78.94	76.92	BL-400301-01-U
	Window	9VDC	0 - 2VDC	180-1010-ND	80.96	78.94	76.92	BL-400102-01-U
	Window	9VDC	0 - 200mVDC	180-1011-ND	80.96	78.94	76.92	BL-400101-01-U
Positive Green Backlit	Bezel	+5VDC	0 - 2VDC	180-1012-ND	80.96	78.94	76.92	BL-330302-01-U
	Bezel	+5VDC	0 - 200mVDC	180-1013-ND	80.96	78.94	76.92	BL-330301-01-U
	Window	+5VDC	0 - 2VDC	180-1014-ND	77.40	75.47	73.53	BL-300302-01-U
	Window	+5VDC	0 - 200mVDC	180-1015-ND	77.40	75.47	73.53	BL-300301-01-U
	Window	9VDC	0 - 2VDC	180-1016-ND	77.40	75.47	73.53	BL-300102-01-U
	Window	9VDC	0 - 200mVDC	180-1017-ND	77.40	75.47	73.53	BL-300101-01-U
Standard Reflective LCD	Bezel	+5VDC	0 - 20VDC	180-1021-ND	65.60	63.96	62.32	BL-130303-U
	Bezel	+5VDC	0 - 2VDC	180-1022-ND	58.40	56.94	55.48	BL-130302-U
	Bezel	+5VDC	0 - 200mVDC	180-1023-ND	65.60	63.96	62.32	BL-130301-U
	Window	+5VDC	0 - 20VDC	180-1024-ND	62.02	60.47	58.92	BL-100303-U
	Window	+5VDC	0 - 2VDC	180-1025-ND	62.02	60.47	58.92	BL-100302-U
	Window	+5VDC	0 - 200mVDC	180-1026-ND	62.02	60.47	58.92	BL-100301-U
	Window	9VDC	0 - 2VDC	180-1027-ND	62.02	60.47	58.92	BL-100102-U
	Window	9VDC	0 - 200mVDC	180-1028-ND	62.02	60.47	58.92	BL-100101-U
Fig. 2 — Flat Pack								
Standard Reflective LCD	Window	+5VDC	20VDC	180-1018-ND	54.72	53.36	51.99	BL-176303-U
	Window	+5VDC	2VDC	180-1019-ND	54.72	53.36	51.99	BL-176302-U
	Window	+5VDC	200mVDC	180-1020-ND	54.72	53.36	51.99	BL-176301-U
Bezel Kit	—	—	—	180-1001-ND	6.38	6.22	6.07	176-BK-U

Jewell Instruments MODUTEC

Industrial Digital Panel Instruments 2000 Series

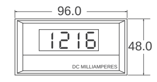

Specifications: Performance: • Conversion Rate: 2.5 per second • Common Mode Rejection: ≥100db 50Hz-60Hz • Tempco: ±200PPM/°C typical except thermocouple inputs which are .1°/degree zero tempco for selectable process ranges is only ± .2 count/°C • Normal Mode Rejection: ≥40db 50Hz-60Hz • Zero Adjust: Automatic • Warmup: 10 minutes **Environment:** • Operating Range: -4°F ~ 140°F (-20°C ~ 60°C) • Storage Range: -22°F ~ 150°F (-30°C ~ 70°C) **Power Options:** • 115V + 10%, -15% 50Hz to 400Hz at 2VA • 230V +10%, -15% 50Hz ~ 400Hz at 2VA **Backlighting Options:** • Positive Green (Green Background, Black Characters) • Negative Red (Black Background, Red Characters) **FCC Compliance:** • Complies with the class B limits of FCC rules and regulations, part 15, sub part J for conducted and radiated emissions. • Except isolated DC powered which is ≥ 80db 50Hz-60Hz

Display	DPM Power	Input†	Backlit Power††	Digi-Key Part No.	Price Each 1	5	10	Modutec Part No.
			TRMS (Power) - Universal Selectable True RMS					
Neg. Red Backlit	115 or 230VAC	250VAC	115 or 230VAC	180-1036-ND	216.96	211.54	206.12	2353-1026-10-U
Neg. Red Backlit		200.0VAC	115 or 230VAC	180-1037-ND	216.96	211.54	206.12	2353-1024-10-U
			UPM - Universal Selectable Process, IDC Voltage or DC Current					
Neg. Red Backlit	115VAC	4/20mADC scaled 0/100.0 percent	115VAC	180-1038-ND	187.46	182.78	178.09	2153-3419-04-U
Neg. Red Backlit		10VDC scaled 0/10.00VDC		180-1039-ND	187.46	182.78	178.09	2153-3406-04-U
			1/8 DIN					
Neg. Red Backlit	115VAC	Type J Thermocouple	115VAC	180-1040-ND	122.52	119.46	116.40	2053-3480-04-U
Neg. Red Backlit		100 Ohms Pt 1° Resolution		180-1041-ND	122.52	119.46	116.40	2053-3470-04-U
Neg. Red Backlit		0 - 50AAC/ Avg		180-1042-ND	122.52	119.46	116.40	2053-3439-04-U
Neg. Red Backlit		80 - 260VAC Avg		180-1043-ND	122.52	119.46	116.40	2053-3429-04-U
Pos. Green Backlit		0 - 200VDC		180-1044-ND	122.52	119.46	116.40	2033-3404-04-U
Pos. Green Backlit		0 - 20VDC		180-1045-ND	122.52	119.46	116.40	2033-3403-04-U
Pos. Green Backlit		0 - 2VDC scaled 0 to 1.999		180-1046-ND	122.52	119.46	116.40	2033-3402-04-U
Pos. Green Backlit		0 - 200mVDC scaled 0 - 199.9		180-1047-ND	122.52	119.46	116.40	2033-3401-04-U
Non Backlit	Loop Power	4 - 20mADC scaled 0 - 100.0	No Backlight	180-1048-ND	156.22	152.32	148.41	2013-3019-00-U

† Rated for use with 5A or 50A external current transformer supplied with DPM. †† Backlight power must be same as selected DPM power.

Analog Panel Meters

The PB Series was designed to meet the expressed need of many customers for meters with a hard-hitting, big-dial-area "industrial" look.

PB Series - Square

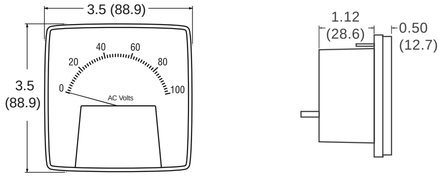

S Series - Rectangular

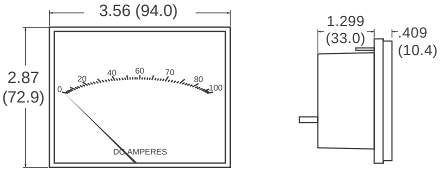

Description	Type	Range	Resistance (Ω)	Digi-Key Part No.	Price Each 1	5	10	Modutec Part No.
AC Ammeters	Rectangular	0 - 100AAC	0.022	180-1063-ND	71.80	70.01	68.21	R3S-AACX-100-U
AC Ammeters Trans. Rated	Square	0 - 100AAC	0.022	180-1080-ND	71.80	70.01	68.21	R3PB-AACX-100-U

DC Voltmeters - Taut band, moving coil: Zero left. **AC Ammeters -** Iron vane: Self-contained, 60Hz nominal input (50-400Hz range). transformer rated, 0-5A.

Type	Frequency Range	Input V	Accuracy	Digi-Key Part No.	Price Each 1	5	10	Modutec Part No.
			Frequency Meters Pointer Type Electronic					
Rectangular	45-65Hz	120VAC	±.6Hz	180-1068-ND	193.56	188.73	183.89	R3S-FRQ-55/120-20-U
	45-55Hz		±.3Hz	180-1069-ND	193.56	188.73	183.89	R3S-FRQ-50/120-10-U
Square	45-55Hz	120VAC	±.3Hz	180-1086-ND	193.56	188.73	183.89	R3PB-FRQ-50/120-10-U
	55-65Hz		±.3Hz	180-1087-ND	193.56	188.73	183.89	R3PB-FRQ-60/120-10-U

Miniature Backlit 1000 Series

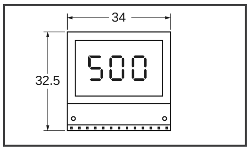

Specifications: Display: • Digits: 3 1/2 digits (1999) • Digit Height: 0.3" (7.6mm) • Decimal Point: 3 positions, external selection • Type: 7 Segment Backlit LCD • Polarity: Automatic (-) displayed • Overload: Three lower digits blank for readings greater than 1999 **Input:** • Full Scale Range: ± 2V or ± 200m VDC • Input Resistance: ± 100MΩ • Overvoltage Protection: 100VDC or peak AC conditions

Performance: • Accuracy: = (0.25% + 1 count) Maximum • Common Mode Rejection: ≥ 86db 50Hz-60Hz • Zero Adjust: Automatic • Conversion Rate: 2.5 Per Second • Tempco: 100 PPM/°C

Environment: • Operating Range: -0°C ~ 60°C • Storage Range: -20°C ~ 70°C **Extended Temperature (option):** • Operating Range: -30°C ~ 80°C • Storage Range: -40°C ~ 85°C **Power Options:** • + 5VDC and -5VDC ± 10% @ 150ua DC or 9VDC (7.2 ~ 12VDC isolated @ 150µADC) **"Note 1:** For the battery powered DPM, the input must either be fully isolated from the power source, or, if referenced to the source, the IN LO terminal must be no closer than 2.3V for the 200mV range (3.5V for the 2V range) to either battery terminal."

Display	Mounting	Terminals	DPM Power	Input	Digi-Key Part No.	Price Each 1	5	10	Modutec Part No.
Pos. Red Backlight	Window	Uncased	+5 & -5VDC	0 - 200mVDC	180-1049-ND	56.26	54.86	53.45	1060-0201-U
Pos. Red Backlight	Window	with 13 pins	Loop Powered	4 - 20mADC	180-1051-ND	155.00	151.13	147.25	1060-0019-U

Low Cost ON-Delay Timers
Series H3JA – Analog

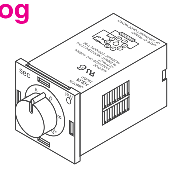

Features: • DPDT contact Form • Fits standard 8-pin sockets • Ideal replacement for time relays • LED power-ON indictor • ON-delay only

Specifications: • Supply Voltage: 100/110/120VAC • Operating Voltage: 85 ~ 110% of rated voltage • Timing Functions: ON-delay • Control Output, DPDT: maximum load - 5A, 125/250VAC (resistive load), minimum load - 100mA, 5VDC • Repeat accuracy: ±2% maximum • Indicators: Power ON (LED) • Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) • Variation due to voltage change: ±2% maximum • Variation due to temperature change: ±5% maximum • Mechanical Service Life: 10 million operations minimum • Electrical Service Life: 100,000 operations minimum at maximum ratings

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Delay Timer, 120VAC, 1-10 Second, DPDT	Z1646-ND	40.87	37.85	35.33	H3JA-8C-AC100-120 10S
Delay Timer, 120VAC, 0-30 Second, DPDT	Z2389-ND	40.87	37.85	35.33	H3JA-8C-AC10012030S
Delay Timer, 120VAC, 0-1 Minute, DPDT	Z2391-ND	40.87	37.85	35.33	H3JA-8C-AC10012060S
Delay Timer, 120VAC, 0-10 Minute, DPDT	Z2388-ND	40.87	37.85	35.33	H3JA-8C-AC10012010M
Delay Timer, 120VAC, 0-60 Minute, DPDT	Z2390-ND	40.87	37.85	35.33	H3JA-8C-AC10012060M
8-Pin Relay Socket for H3JA/H5CX-LB Series	Z883-ND	10.28	9.25	8.22	P3G-08
Panel Mount Adapter for H3JA Series	Z886-ND	5.53	4.98	4.42	Y92F-31
DIN-Rail Mount Socket for H3JA Series	Z2368-ND	7.42	6.87	6.42	PF085-A

Low Cost Selectable Timers
Series H3YN – Analog

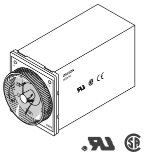

Features: • DPDT and 4PDT control output • Improved miniature timer relay that operates in 4 selectable modes: ON-Delay, Interval, Repeat Cycle, ON-Start (selectable by dip switches) • Independent Power-ON and Time-Up indicators show relay status instantly • Control Outputs: DPDT: 5A at 250VAC, resistive load; 4PDT: 3A at 250VAC, resistive load • Repeat Accuracy: ±1% FS maximum • Setting Error: ±10%±50ms FS maximum • Operating Temperature: -10°C ~ 50°C • Mechanical Service Life: 10,000,000 operations minimum • Electrical Service Life: DPDT: 500,000 operations minimum; 4PDT: 200,000 operations minimum For mounting socket, use Z882-ND (DPDT) or Z811-ND (4PDT).

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Relay Timer Analog 0-10 Minute DPDT	Z1134-ND	41.34	38.28	35.73	H3YN-2 AC100-120
Relay Timer Analog 0-10 Hours DPDT	Z1135-ND	41.34	38.28	35.73	H3YN-21 AC100-120
Relay Timer Analog 0-10 Minute 4PDT	Z1136-ND	42.28	39.15	36.54	H3YN-4 AC100-120
Relay Timer Analog 0-10 Hours 4PDT	Z1137-ND	42.28	39.15	36.54	H3YN-41 AC100-120

Ultra Compact Timers
Series H3RN – Analog

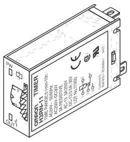

Features: • Multiple operating modes, DIP switch selectable, ON-delay, Interval, Repeat cycle ON-Start/OFF-Start • Standard multiple time ranges: Short range (0.15 to 10 minutes) Long range (0.1 minute to 10 hours) • Pin configuration compatible with G2R-IS

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Mini Delay Timer, 4 Mode, 0-10 Min., 24 VAC	Z2397-ND	39.46	36.54	34.11	H3RN-1-AC24
Mini Delay Timer, 4 Mode, 0-10 Min., 24 VDC	Z2398-ND	39.46	36.54	34.11	H3RN-1-DC24
Mini Delay Timer, 4 Mode, 0-10 Hrs., 24 VAC	Z2399-ND	39.46	36.54	34.11	H3RN-11-AC24
Mini Delay Timer, 4 Mode, 0-10 Hrs., 24 VDC	Z2400-ND	39.46	36.54	34.11	H3RN-11-DC24

Solid State Relay Timers
Series H3CR – Analog

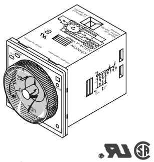

Features: • Field-selectable time ranges from 0.05 second to 300 hours • Use for delay timing, repeatable cycles or duration (interval) timing. Built-in DPDT relay switches when timing cycle is complete. Wide input voltage ranges from 100 ~ 240VAC or choose 24 ~ 48VAC/12 ~ 48VDC • Three external signal inputs for remote control of the timer. • Timing Functions: ON-delay, Repeat cycle (B, B2), Signal ON/OFF delay, Signal OFF-delay, Interval.

Specifications: • Supply Voltage: 100 ~ 240VAC, or 24 ~ 48VAC/12 ~ 48DC • Operating Voltage: 85% – 110% of rated supply voltage • Control Output: Type - DPDT relay, Maximum load - 5A, 250VAC, minimum load - 10mA, 5VDC • Repeat Accuracy: ±0.3% full scale maximum, except in 1.2 range ±0.3%, ±10ms.

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Relay Timer, 120/240VAC, 11-Pin Octal DPDT	Z876-ND	58.49	54.16	H3CRAAC100240DC100125
Relay Timer, 24VDC/AC, 11-Pin Octal DPDT	Z997-ND	56.38	52.20	H3CRAAC24-48/DC12-48
Relay Timer, 120/240 VAC, 8-Pin Octal	Z2379-ND	58.50	54.17	H3CR-A8-AC100240/DC100125
Relay Timer, 24VDC/VAC, 8-Pin Octal	Z2380-ND	58.50	54.17	H3CR-A8-AC24-48/DC12-48
Relay Timer, 24 VDC/VAC, 8-Pin Octal	Z2381-ND	61.32	56.78	H3CR-A8E-AC/DC24-48
Repeat Timer, 0-30 hrs. 120-240VAC	Z2366-ND	67.18	62.21	H3CR-F-AC100-240
Repeat Timer, 0-30 hrs., 120-240VAC, 8-Oct.	Z2383-ND	64.83	60.03	H3CR-F8-AC100-240
Repeat Timer, 0-300 hrs., 120VAC, 8-Octal	Z2384-ND	67.18	62.21	H3CR-F8-300-AC100240
Repeat Timer, 0-300 hrs., 120-240VAC	Z2358-ND	67.18	62.21	H3CR-FN-AC100-240
Repeat Timer, 0-30 hrs., 120VAC, 8-Octal	Z2385-ND	67.18	62.21	H3CR-F8N-AC100240
Off-Delay Timer, 0-120 min., 120 VAC	Z2386-ND	64.83	60.03	H3CR-H8L-AC100-120M
Off-Delay Timer, 0-120 sec., 120VAC	Z2387-ND	64.83	60.03	H3CR-H8L-AC100-120S
Hard Plastic Clr. Cover for 48x48mm Timers	Z2367-ND	6.67	6.18	Y92A-48B
Track Mount Relay Socket for H3CR Series	Z884-ND	12.33	11.10	P2CF-11
Protective Panel Cover,-Black For H3CR	Z929-ND	4.04	3.75	Y92P-48GB
Chassis Mount 11 Pin Octal Socket	Z2250-ND	11.37	10.24	P3GA-11

Solid State Timers
Series H3CA – Digital Bar Graph

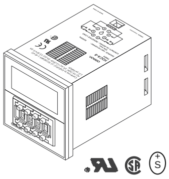

Features: • A simple programmable timer to setup and read with presetable thumb wheel switches for time and mode selection. Also features a simple time-remaining LCD bargraph and LCD status indicator for easy viewing • 8 field-selectable operation modes • Operations include: ON-delay, Repeat-cycle, Signal Interval/OFF-delay, Singal-OFF delay (I and II), Interval, Cycle and Signal ON-delay/OFF-delay • Universal AC/DC supply voltage selectable no-voltage start, reset, gate and check inputs expand capabilities.

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Timer, .1 Sec. to 9.99 Khrs., 11 Pin Octal	Z2359-ND	105.24	97.44	90.95	H3CA-A
Timer, .1 Sec. to 9.99 Khrs., 8 Pin Octal	Z2377-ND	102.42	94.83	88.51	H3CA-8-AC100/110/120
Timer, ON-Delay Only, 8 Pin Octal	Z2378-ND	103.36	95.70	89.32	H3CA-8H-AC100110120

Relay Timers Series H5CX – Digital

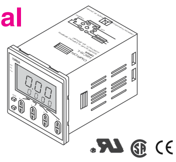

Features: • Field-selectable time ranges from 0.001 second to 9999 hours • High-visibility alphanumeric LCD display has 11.5mm high characters and built-in backlight • Precision control possible to 0.001 second • 10-year battery back-up • Selectable elapsed time (UP) and time remaining (DOWN) display • Timing functions: 11 selectable, including ON-delay, repeat cycle, OFF delay, interval, and one-shot • Contact Type: SPDT relay • 11-Field selectable timing modes for a wide variety of applications • Twin-timer function included in one unit to meet a wide range of cyclic control applications • Programmable display color to alert any output status change • All parameters can be set via front membrane keys or DIP switches

Specifications: • Supply voltage: 100 ~ 240VAC, 50/60Hz • Operating Voltage: 85%–110% of rated voltage • Relay Control Output: Maximum load - 5A, 250VAC; Minimum load - 10mA, 5VDC • Repeat Accuracy: Power start ±0.01%, Signal start - ±0.005% • Memory Function: Retains preset values for 10 years at 25°C • Operating Temperature: 14°F ~ 131°F (-10°C ~ 55°C) • Mechanical Service Life: 10 million operations minimum • Electrical Service Life: 100,000 operations minimum at 5A, 240VAC, resistive load (p.f. = 1)

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Timer, w/Backlight Time, 8-Pin Octal	Z1644-ND	115.57	107.01	H5CX-L8-AC100-240
Digital Timer, 8-Pin Octal, 12-24 VDC/AC	Z2370-ND	115.57	107.01	H5CX-L8D-AC24DC1224
Digital Timer, w/Backlight, Screw Terminal	Z1645-ND	135.30	125.28	H5CX-A-AC100-240
Digital Timer, Screw Terminal, 12-24VDC/AC	Z2371-ND	135.30	125.28	H5CX-AD-AC24DC12-24
Digital Timer, 11-Pin Octal, 120/240VAC	Z2369-ND	133.42	123.54	H5CX-A11-AC100-240
Digital Timer, 11-Pin Octal, 12-24VDC/AC	Z2405-ND	133.42	123.54	H5CX-A11D AC24/DC12-24
Digital Timer, Screw Terminal, 120-240VAC	Z2372-ND	135.30	125.28	H5CX-AS-AC100-240
Digital Timer, Screw Terminal, 12-24VDC/AC	Z2373-ND	135.30	125.28	H5CX-ASD-AC24/DC12-24
Digital Twin Timer, Screw Term., 12-24VDC/AC	Z2408-ND	160.67	148.77	H5CX-BWSD
Panel Mount Adapter for H3CR/H5CX-L8 Series	Z885-ND	10.30	9.27	Y92F-30
8-Pin Relay Socket for H3JA/H5CX-L8 Series	Z883-ND	10.28	9.25	P3G-08
DIN Rail Mount Screw Terminal Socket, 8 Octal	Z2407-ND	6.77	6.27	P2CF-08

Count Totalizer

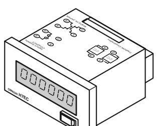

Omron's self-powered totalizing counters feature either no-voltage inputs, DC voltage only or combined AC/DC voltage inputs. Offered in both 1KHz input for high speed, no chatter input signals or 30/20Hz inputs for relay and switch (high chatter) inputs. • Operating mode: up count • Display: LCD Digital, 0.2 in. high. New Black case. Replaceable battery.

Specifications: • Supply Voltage: Not required (powered by built-in battery) • Input: AC/DC voltage — 24 ~ 240VAC/VDC ±10%, 50/60Hz, or 6 ~ 240VDC ±10% at "High" (logic) level, 0 ~ 2.4VAC ±10%, 50/60 Hz, or 0 ~ 2VDC at "Low" (logic) level • DC Voltage — 4.5 ~ 30VDC at "High" (logic) level, 0 to 2VDC at "Low" (logic) level • No-Voltage — Maximum short-circuit impedance: 10kΩ maximum • Reset Time: 20ms reset signal. • Instruction Sheet Included.

No. of Digits	Type of Input	Counting Speed	Term. Type	Reset Type	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
8	No-Voltage	30/1 kHz	Screw	Electrical	Z861-ND	47.92	44.37	41.42	H7EC-B
8	DC Voltage	30/1 kHz	Screw	Electrical	Z865-ND	49.80	46.11	43.04	H7EC-NV-B
	AC/DC Volt.	20 Hz	Screw	Electrical	Z867-ND	48.62	45.03	42.03	H7EC-FBV
8	DC Voltage Input	30/1kHz	Screw	External/ Manual	Z1144-ND*	58.49	54.16	50.55	H7EC-NV-BH
Optional WW Terminal Set (2 Terminal/Pkg.)					Z2428-ND	2.07	1.92	1.80	Y92S-37-ND

*Backlight 24VDC

Time Totalizer

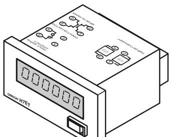

Omron's self-powered time totalizer displays cumulative time by counting the output signals received from a sensor. When the proper input has been applied, the timing circuit is enabled allowing the timer to start, disabling the inputs will stop the timing sequence. Key protect Switch to prevent front resetting. New black case. Replaceable battery.

Specifications: • Supply Voltage: Not required (powered by built-in battery) • Input: AC/DC voltage — 24 ~ 240VAC, or 6 ~ 240VDC at "High" (logic) level, 0 ~ 1.5VAC, or 0 ~ 2VDC at "Low" (logic) level. DC voltage — 4.5 ~ 30VDC at "High" (logic) level, 0 ~ 2VDC at "Low" (logic) level. No-voltage — Maximum short-circuit impedance: 10kΩ maximum Short-circuit residual voltage: 0.5V maximum. Minimum open impedance: 500kΩ minimum • Reset Time: 20 ms reset signal. • Terminal: Screw type • Instruction sheet included

Type of Input	Time Range	Features	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
No-Voltage	0 ~ 999999.9h	w/o Backlight	Z870-ND	58.49	54.16	50.55	H7ET-B
DC Voltage only	0 ~ 999999.9h	w/o Backlight	Z872-ND	58.49	54.16	50.55	H7ET-BV
AC/DC Voltage	0 ~ 999h59m59s	w/o Backlight	Z874-ND	75.40	69.82	65.17	H7ET-FBV1
AC/DC Voltage	0 ~ 999999.9h	w/o Backlight	Z875-ND	75.40	69.82	65.17	H7ET-FBV
DC Voltage Input	9999h59.9m	w/o Backlight	Z1149-ND	63.89	59.16	55.22	H7ET-NV1-B
DC Voltage Input	999h59m59s	with Backlight	Z1150-ND	63.89	59.16	55.22	H7ET-NV1-BH

OMRON

Tachometer Counters

Omron's self powered tachometers offer a large display (8.6mm) with various input types available. Selectable multiplier/divider network allows either RPM or RPS measurement. Comes with waterproofing gasket and panel mounting bracket. Screw terminal connections. 4 digits.

Max. Counting Speed	24 VDC Backlight	Type of Input	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
1kHz	—	No Voltage	Z1145-ND	63.89	59.16	55.22	H7ER-N-B
1kHz	—	DC Voltage	Z1146-ND	63.89	59.16	55.22	H7ER-NV-B
1kHz	Yes	DC Voltage	Z1147-ND	69.53	64.38	60.09	H7ER-NV-BH

Counter Accessories

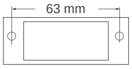

Horizontal

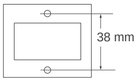

Vertical

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Horizontal Panel Mounting Adapter for H7 Series	Z998-ND	3.29	3.05	Y92F-75
Vertical Panel Mounting Adapter for H7 Series	Z999-ND	3.29	3.05	Y92F-76

H3DE Relay Timers DIN Rail

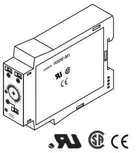

Features: • Slim design for track mounting • Wide AC/DC power supply range (24 to 230VAC/DC) • Eight operating modes (H3DE-M) and four operating modes (H3DE-S) to cover a wide range of applications • Finger protection terminal block • Operating Mode: A: ON-delay (Signal or Power); B: Flicker OFF start (Signal or Power); B2: Flicker ON start (Signal or Power); C: Signal ON/OFF-delay; D: Signal OFF-delay; E: Interval (Signal or Power); G: Signal ON/OFF-delay; J: One-shot (Single or Power) For mounting track, use Z840-ND or Z841-ND.

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
DIN Mount Timer – 8 Mode SPDT	Z1138-ND	42.99	39.81	37.16	H3DE-M1 AC/DC 24-230
DIN Mount Timer – 8 Mode DPDT	Z1139-ND	52.62	48.72	45.48	H3DE-M2 AC/DC 24-230
DIN Mount Timer – 4 Mode SPDT	Z1140-ND	32.66	30.24	28.23	H3DE-S1 AC/DC 24-230
DIN Mount Timer – 4 Mode DPDT	Z1141-ND	42.99	39.81	37.16	H3DE-S2 AC/DC 24-230

H3DS Digital Multi-Function Timer

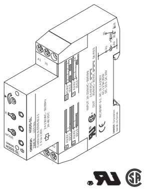

Features: • Wide AC/DC power supply rane (24 t0 230 VAC/24 to 48 VDC) minimizes inventory • Smart Dial/Selector-Locking Mechanism prevents the dials and selectors on the timer's front panel from being operated without authorization (lock can only be unlocked and locked with an optional pen-type Lock Key) • Eight operating modes (H3DS-M) and four operating modes (H3DS-S) to cover a wide range of applications • Offers wide time setting range of 0.10 second to 120 hours

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
DIN Mount Timer – On-Delay Only, No Enable Input, SPDT	Z2392-ND	30.78	28.50	26.60	H3DS-AL AC24-230/DC24-48
DIN Mount Timer – 4 Mode, No Enable Input, SPDT	Z2395-ND	32.66	30.24	28.23	H3DS-SL AC24-230/DC24-48
DIN Mount Timer – 8 Mode, with Voltage Input, SPDT	Z2393-ND	42.99	39.81	37.16	H3DS-ML AC24-230/DC24-48
DIN Mount Twin Timer – Indep. "On-Off" Settings, SPDT	Z2394-ND	50.74	46.98	43.85	H3DS-FL AC24-230/DC24-48
Lock Key Hand Tool for Unlocking H3DS Timers	Z2396-ND	9.59	8.88	8.29	Y92S-38

Digital Daily Timer

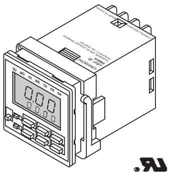

• Precise control of both regular and special ON/OFF times • Can be set for timed or pulsed operation, and for multiple-day operation

Specifications: • Operation: 1. Daily operation (Multiple-day operation possible) 2. Pulse-output operation (pulse width can be set in units of 1 second from 1 to 59 seconds and in units of 1 minute from 1 to 60 minutes) 3. Partial operation on specified day 4. Forced ON/OFF operation • Repeat accuracy: ±0.01% • Memory protection: 5 years minimum • Life expectancy: 50,000 operations minimum (15A, 250VAC, resistive load) • Operating Temperature: -10C° ~ 55°C

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Daily Timer, Panel Mount	Z1142-ND	156.91	145.29	H5F-B
Digital Daily Timer, Track Mount	Z2440-ND	163.49	151.38	H5F-KB

Programmable Weekly Timer

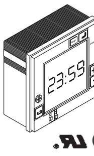

Large LCD display with 7 day x 24 hour programming. Perfect for controlling On-Off cycles for lighting, industrial and security. Two independent 15A control circuits and 16 step front program options allows fast and easy program changes. Wire connections are made by screw terminals from either the front or the back.

• Timer may be wall mounted, recessed into panel or din rail mounted. • All mounting hardware and instructions are included. • Optional protective hard plastic cover prevents accidental resetting and protects from dirt and water.

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Programmable Timer 100-240VAC w/Manual Override	Z1000-ND	187.92	174.00	H5L-A
Clear Protective Cover (Hard Plastic) for H5L-A	Z1001-ND	10.25	9.17	00-907062-002

Programmable Daily/ Weekly Timer

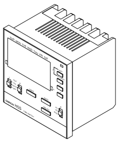

• AM/PM display • Field- adjustable ON/OFF, cycle, and pulse output • A different program possible each day • Wide supply voltage range • Two independent 15A control circuits with manual override • Battery backup for memory protection • Automatic or manual operation following power failure

Specifications:
• Supply voltage: AC 100 to 240V • Long-term error: ±15 seconds per month • Maximum load: 15A, 250VAC resistive load • Connections: Terminal screws • Minimum load: 100mA, 5VDC • Operating temperature: -10°C ~ 55°C • Repeat accuracy: ±0.01% • 50,000 operations minimum, 15A, 250VAC, resistive load

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Daily/Weekly Timer, Panel Mount	Z1143-ND	201.07	186.18	H5S-B
Digital Daily/Weekly Timer, Track Mount	Z2441-ND	201.07	186.18	H5S-FB

Multifunction Preset Counters

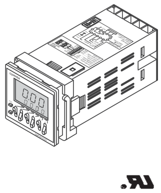

Omron's multifunction counters feature large reverse-lit LCD which can be programmed to change from green to red (or red to green), providing long-range status information. H7CX counters allow users to choose between batch counter, dual counter, single or dual stage preset counter, tachometer or totalizer operation. To maximize the versatility, additional features such as counting speed, count direction, input and output type can also be configured by the user.

Features: • Highly visible display with backlit negative transmissive LCD • NEMA4/ IP66 compliance • 1-2 Stage Counter • Case Color: Black • Reset Indicator: Orange • Key Protection Indicator: Orange • Input: 12VDC • Output Type: Contact • Supply Voltage: 100 ~ 240VAC

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
6 Digit, Screw Terminal Counter, Red/Green	Z1661-ND	156.91	145.29	H7CX-A-AC100-240
6 Digit, Screw Terminal Counter	Z2365-ND	135.30	125.28	H7CX-AD DC12-24
6 Digit, 11-Pin Octal Socket Counter, Red	Z1662-ND	165.37	153.12	H7CX-A11-AC100-240
6 Digit, Screw Terminal Counter 12VDC	Z2374-ND	156.91	145.29	H7CX-AS-AC100-240
4 Digit, Screw Terminal Counter 12VDC	Z2375-ND	160.67	148.77	H7CX-A114 AC100-240
4 Digit, Screw Terminal Counter 12VDC	Z2376-ND	156.91	145.29	H7CX-A4-AC100-240

E5CN Digital Temperature Controllers

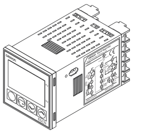

Features:

• Faster sampling at 250 ms • Transfer output provided for easy output to recorders • Voltage outputs (to drive SSRs) for both heating and cooling control • Can be used for alarms to provide three alarm outputs • Models available with three-phase heater burnout detecion and SSR fault detection • Easy setting with 11-segment displays • Connect to either a thermocouple or platinum resistance thermometer with the protection indicator informs operator when protection is enabled • Manual output provided

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Relay Output, 2 Alarms	Z2409-ND	166.31	153.99	143.73	E5CN-R2MT-500-AC100240
Voltage Output, 2 Alarms	Z2410-ND	166.34	154.02	143.76	E5CN-Q2MT-500-AC100240
Voltage Output, No Alarms	Z2411-ND	157.85	146.16	136.42	E5CN-QMT-500-ACDC24

E5AK/E5CK Digital Temperature Controllers

Features:

• Advanced digital process with fuzzy logic • Field configurable outputs and options • 100 ms sampling (for analog input) • Advanced PID, or fuzzy self-tuning • Conforms to UL, CSA and CE standards • Water-resistant, NEMA 4X, IP66 • Remote set-point with optional event input board • Set-point ramp • Serial communications available • Front panel programming • Heat only or heat/cool control • Two auxiliary SPDT outputs standard.

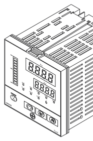

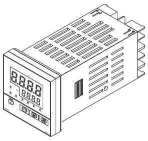

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Standard Model, 96x96 mm	Z2412-ND	444.43	411.51	384.08	E5AK-AA2-500
Position-Proportional Model, 96x96 mm	Z2413-ND	484.83	448.92	419.00	E5AK-PRR2-500
Standard Model, 48x48 mm	Z2414-ND	249.93	231.42	216.00	E5CK-AA1-500
Optional Current Transformer for 0-50A Heater Burnout	Z2416-ND	22.55	20.88	19.49	E54-CT1

E5CS Digital Temperature Controllers

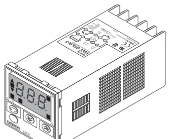

Features: • Accurate to ±0.5% of full scale • Multiple temperature scale ranges allow flexibility to match application • Field-selectable temperature ranges in °F and °C • Selectable ON/OFF and PID control with auto-tuning of proportional band • 8-function alarm, standard • Tamper-proof setting, faulty sensor compenation and controller diagnostics • Easy-to-read 11 mm high LED display • Nonvolatile memory backup

Description	Digi-Key Part No.	Price Each 1	25	50	Omron Part No.
Thermocouple (Types J and K), Voltage Output, 24V	Z2419-ND	210.47	194.88	181.89	E5CS-Q1KJXF-ACDC24
Thermocouple (Types J and K), Voltage Output, 120V	Z2420-ND	198.26	183.57	171.34	E5CS-Q1KJX-F

Digital Temperature Controllers

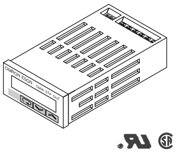

• Compact and Intelligent 1/32 DIN Temperature Controller • Water-resistant: Construction: NEMA4

Specifications: • Supply voltage: 100 to 240VAC, 50/60 Hz • Operating temperature: -10°C ~ 55°C • Sensor input: Thermocouple: K, J, T, E, L, U, N, R, S, B • Control output: Relay output: SPST-NO, 250VAC 2A (resistive load) • Indication accuracy: Thermocouple: (±0.5% of indicated value) • Voltage output: 12VDC (PNP), maximum load current: 21mA, with short-circuit protection

Description	Digi-Key Part No.	Price Each 1	25	Omron Part No.
Digital Temperature Controller Volt Output	Z1130-ND	196.38	181.83	E5GN-Q1TC AC/DC24
Digital Temperature Controller Volt Output	Z1131-ND	196.38	181.83	E5GN-Q1TC AC100-240
Digital Temperature Controller Relay Output	Z1132-ND	196.38	181.83	E5GN-R1TC AC/DC24
Digital Temperature Controller Relay Output	Z1133-ND	196.38	181.83	E5GN-R1TC AC100-240

Hour Meters and Counters 700 Series

Curtis Modules are ideally suited for OEM's panel makers and contract manufacturers to measure equipment usage for preventive maintenance, scheduling, warranty validation and renting/leasing. No moving parts or motor driven digits to wear out. Non-volatile memory can be powered down and not lose hours counted. Counting starts with enable connection and counts display when power is applied to the meter. External reset is standard. The counters can be used in vending machines, medical equipment, fuel pumps, office equipment, flow instruments, consumer products and many other applications.

Features: • Attractive and easy to read 6-digit Liquid Crystal Displays with 5mm digit height • Compact size ideal for electronic subassemblies • Wide voltage range • AC/DC operation on most products • Input Frequency of 500 Hz on DC counters; 1 Hz on AC/DC counters • Exceptional reliability due to non-volatile (EEPROM) memory which can retain data for 25+ years • Resettable option.

700 and 701 Series:

6-digit Hour Meter module with 5mm (.197") high digits, non-backlit. Operating Type: • 2 wire units start timing when supply power is applied. 3 wire units start timing when 3rd lead (enable lead) has power applied. **Specifications:** • Resolution: 99,999.9 hours • Accuracy: ±0.1% hours • Mechanical Shock: SAE J1378, 55g • Operating Temperature: -40°C ~ 85°C • Storage Temperature: -50°C ~ 90°C

703 Series:

6-digit Pulse Counter module with 5mm (.197") high digits, non-backlit. **Specifications:** • Resolution: 999,999 Counts • Accuracy: ±1 count • Mechanical • Shock: SAE J1378, 55g • Operating Temperature: -40°C ~ 85°C • Storage Temperature: -50°C ~ 90°C

Dimensions in Inches (mm)

Fig. 1 – 2" Round

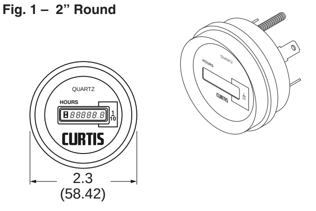

Fig. 2 – Mini with MNT Ears

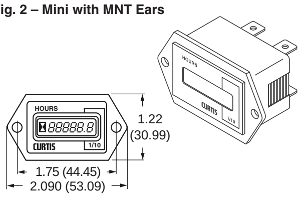

Fig. 3 – Mini without MNT Ears

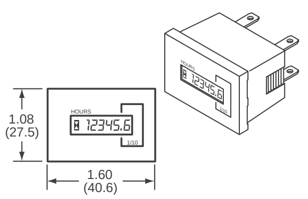

Fig. 4 – Standard Size

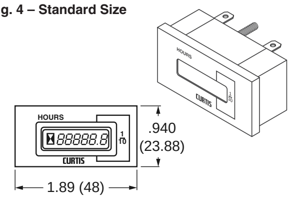

Fig. 5 – Standard size with connector

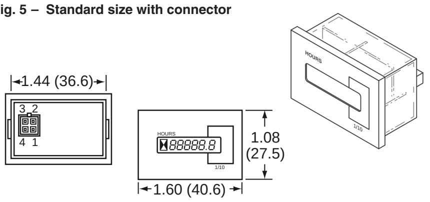

Fig. 6 – 1/16 Din Size

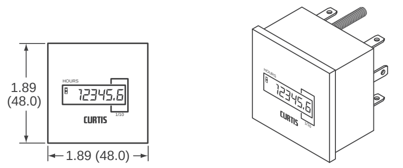

Fig. 7 – PCB MNT

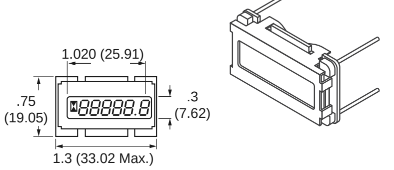

Fig.	Operating Mode	Operating Type	Operating Voltage DC	AC	Reset	Digi-Key Part No.	Price Each 1	10	Curtis Part No.
1	Hour Meter	3 Wire	12-48	20-60	Elect	267-1001-ND	31.00	27.90	701QR00101248D2060A
	Hour Meter	3 Wire	48-150	100-230	Elect	267-1002-ND	27.50	24.75	701QR001048150D100230A
2	Hour Meter	3 Wire	12-48	20-60	Elect	267-1003-ND	22.00	19.80	701FR00101248D2060A
	Hour Meter	3 Wire	48-150	100-230	Elect	267-1004-ND	22.00	19.80	701FR001048150D100230A
3	Hour Meter	2 Wire	12-48	20-60	Elect	267-1043-ND	19.50	17.55	700ZR001N1248D2060A
	Hour Meter	2 Wire	48-150	100-230	Elect	267-1044-ND	22.00	19.80	700ZR001N48150D100230A
	Hour Meter	3 Wire	12-48	20-60	Elect	267-1045-ND	19.50	17.55	701ZR001N1248D2060A
	Hour Meter	3 Wire	48-150	100-230	Elect	267-1046-ND	22.00	19.80	701ZR001N48150D10023
4	Hour Meter	2 Wire	12-48	20-60	Elect	267-1039-ND	28.00	25.20	700DR00101248D2060A
	Hour Meter	2 Wire	48-150	100-230	Elect	267-1042-ND	28.00	25.20	700DR001048150D100230A
	Hour Meter	3 Wire	12-48	20-60	Elect	267-1005-ND	28.00	25.20	701DR00101248D2060A
	Hour Meter	3 Wire	48-150	100-230	Elect	267-1006-ND	28.00	25.20	701DR001048150D100230A
	Counter	3 Wire	12-48	20-60	Elect	267-1007-ND	28.00	25.20	703DR00101248D2060A
	Counter	3 Wire	48-150	100-230	Elect	267-1008-ND	28.00	25.20	703DR001048150D100230A
5	Hour Meter	3 Wire	48-150	100-230	Non	267-1026-ND†	18.00	16.20	700LN001N48150D100230A
	Hour Meter	3 Wire	12-48	—	Non	267-1027-ND†	18.00	16.20	701LN001N1248D
	Hour Meter	3 Wire	12-48	20-60	Non	267-1028-ND†	18.00	16.20	700LN001N1248D2060A
6	Hour Meter	3 Wire	12-48	20-60	Elect	267-1047-ND	41.50	37.35	701SR6010248D
	Hour Meter	3 Wire	48-150	100-230	Elect	267-1048-ND	41.50	37.35	701SR601048150D100230A
7	Hour Meter	3 Wire	5-12	—	Elect	267-1009-ND	21.50	19.35	701PR-102
	Hour Meter	3 Wire	12-48	—	Elect	267-1010-ND	21.50	19.35	701PR-112
	Counter	3 Wire	5-12	—	Elect	267-1011-ND	24.00	21.60	703PR-102
	Counter	3 Wire	12-48	—	Elect	267-1012-ND	24.00	21.60	703PR-112

† Order Mating Connector separately. Housing WM1784-ND. Contacts: 20AWG - 24AWG (WM1837-ND), 26AWG - 30AWG (WM1838-ND)

CURTIS enGage™ II Dual Automotive and Industrial Meters

The Curtis enGage II is a dual function microprocessor based display. They are pre-defined to monitor multiple combined functions such as battery voltage and equipment run time, fuel level and equipment run time, temperature and equipment run time, pressure and equipment run time or maintenance status with total hour meter displayed. Perfect for monitoring Industrial and Commercial vehicles, outdoor power and equipment, Industrial cleaning equipment, generators, battery condition of electric powered devices and monitoring scheduled maintenance. Display also offers a flashing LED warning and separate FET output when levels or maintenance times are getting near limits. Values are maintained with EEPROM non-volatile memory that allows power to be completely removed from display. Run-time starts when power is applied. Mounts in a round 2" mounting hole. IP65 Sealed front and rear. Includes mounting bracket. Inputs are resistive type inputs.

Fig. 1

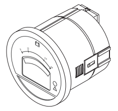

Battery Voltage

Fig. 2

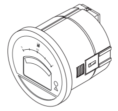

Fuel Level

Fig. 3

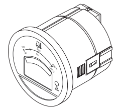

Temperature

Fig. 4

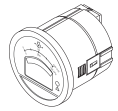

Pressure

Fig. 5

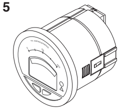

Programmable Maintenance Monitor

Fig. 6

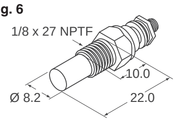

Temperature Sender

Fig.	Description	Digi-Key Part No.	Price Each 1	10	50	Curtis Part No.
1	Battery Voltage and Run Time Meter with Low Voltage Warning Indicator. 12VDC Supply	267-1029-ND	52.50	47.25	39.36	3001R-97X-0001
2	Fuel Level and Run Time Meter with Low Fuel Warning Indicator. 12VDC Supply	267-1030-ND	55.50	49.95	41.61	3011R-07X-0001
3	Temperature and Run Time Meter with High Temperature Warning Indicator. 12VDC Supply	267-1031-ND	61.00	54.90	45.74	3011R-17X-0001
4	Pressure and Run Time Meter with Low Pressure Warning Indicator. 12VDC Supply	267-1032-ND	61.00	54.90	45.74	3011R-27X-0001
5	Programmable Maintenance Monitor and Hour Meter with Maintenance Due Warning Indicator. 12-48VDC Supply	267-1033-ND	102.00	91.79	76.47	3003R-67X-0001
—	Amp Connector Harness Assembly for enGageII Meters, 5" Wires with Round Snap Receptacles	267-1034-ND	20.00	18.00	15.00	17631800-01
6	Temperature Sender for Coolant Applications, 100-250°F, 1/8" NPT	267-1035-ND	28.00	25.20	21.00	TS-002
—	Fuel Gauge Sender, Adjustable for tank depths of 6"-24", Top Mount Style, Includes Gasket Pressure Sender for Oil, Fluid, and Water Applications, 0-145 Psi, 1/8" NPT Pressure Sender for Oil, Fluid, and Water Applications, 0-362 Psi, 1/8" NPT	267-1038-ND 267-1036-ND 267-1037-ND	24.00 46.00 20.00	21.60 41.40 18.00	18.00 34.49 15.00	FS-002 PS-005 PS-010

MARTEL ELECTRONICS Digital Panel Meters

When choosing a Martel Panel Meter for your application, be aware of the difference between standard versions and "single-ended" versions designated by the suffix "S". Use standard versions with floating (isolated) input signals and use single-ended (S-type) versions when the signal to be measured shares the same ground as the meter's power supply.

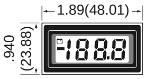

Panel Cutout:
.87" x 1.77"
22.10mm x 44.96mm

DPM125 LCD Legacy Series

The DPM125 features auto-zero, auto-polarity, 200mV fsr, 12.5mm digit height, low battery indication and selectable decimal points. The meter will plug directly into a 12-pin SIL socket or can be panel mounted using snap-in bezel provided.

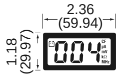

Panel Cutout:
1.06" x 2.24"
26.92mm x 56.90mm

DPM500 LCD Legacy Series

The DPM500 features auto-zero, auto-polarity, 200mV~2V~20V fsr, 12.5mm digit height, low battery indication, selectable decimal points and 10 user-selected annunciators. The meter will plug into a 40-pin DIL socket or can be panel mounted using snap-in bezel provided. Also available with LED backlight.

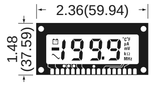

Panel Cutout:
1.26" x 2.44"
32.00mm x 61.98mm
External Bezel

DPM600 LCD Legacy Series

The DPM600 features auto-zero, auto-polarity, 200mV~2V~20V fsr, 12.5mm digit height, adjustable low battery indication, selectable decimal points and 12 user-selected annunciators. The meter has 36 pins for PCB mounting or can be panel mounted with optional bezel (p/n MB10).

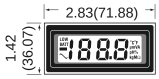

Panel Cutout:
1.3" x 2.68"
33.02mm x 68.07mm

DPM2000 LCD Legacy Series

The DPM2000 features auto-zero, auto-polarity, 200mV~2V~20V fsr, 15mm digit height, adjustable low battery indication, selectable decimal points and 12 user-selected annunciators. The meter will plug into a 40-pin DIL socket or can be panel mounted using snap-in bezel provided.

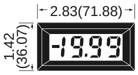

Panel Cutout:
1.3" x 2.68"
33.02mm x 68.07mm

DPM40 LED Series

The DPM40 features auto-zero, auto-polarity, 200mV~2V~20V fsr, 11mm LED digit height and selectable decimal points. The meter is supplied with a bezel and filter to give a high contrast display.

Supply	Input	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
7.5~15	200mV	227-1007-ND	68.94	65.50	62.05	DPM125
7.5~15	200mV	227-1008-ND	82.24	78.13	74.02	DPM125L
7.5~15	20V	227-1011-ND	75.76	71.98	68.19	DPM500-20
3.6~6.5	2V	227-1016-ND	84.74	80.51	76.27	DPM500S-2
3.6~6.5	20V	227-1017-ND	84.74	80.51	76.27	DPM500S-20
5~15	200mV	227-1021-ND	82.06	77.96	73.86	DPM600
5~15	20V	227-1023-ND	82.06	77.96	73.86	DPM600-20
5~15	200mV	227-1027-ND	76.34	72.53	68.71	DPM2000
5~15	2V	227-1028-ND	76.34	72.53	68.71	DPM2000-2
5~15	20V	227-1029-ND	76.34	72.53	68.71	DPM2000-20
5	200mV	227-1030-ND	97.66	92.78	87.90	DPM40
5	20V	227-1032-ND	97.66	92.78	87.90	DPM40-20
Bezel for DPM 600		227-1033-ND	3.50	3.33	3.15	MB10

SP Series 3.5 Digital Voltmeters

This range of voltmeters has LCD and LED options. The 12 pin dual-in-line connection versions are compatible with competing meters. Two lower cost versions (LCD, 9-pin and LED, 8-pin) are more suited to new designs. The whole range includes full-scale reading ±200mVDC with a typical accuracy of 0.1% (±1 count). Each module is 1.38" (35.05mm) width x 0.88" (22.35mm) height. Low cost means it will suit high and low volume applications. Ip65 splash proof construction.

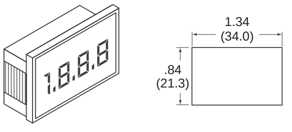

SP100

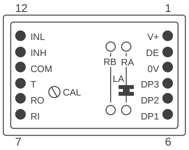

SP200

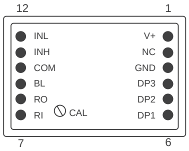

SP300

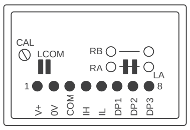

SP400

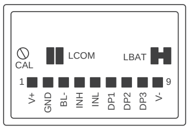

Description	Digi-Key Part No.	Price Each	Martel Part No.
Mini Bright Red LED Voltmeter, 200mV Input	227-1050-ND	66.50	SP100
Mini LCD Voltmeter, Grn/Yel Backlight, 200mV Input	227-1051-ND	51.60	SP200
Large Bright Red LED Voltmeter, 200mV Input	227-1052-ND	56.60	SP300
Large LCD Voltmeter, Grn/Yel Backlight, 200mV Input	227-1053-ND	44.94	SP400

Series 10 Universal Volt/Ammeter

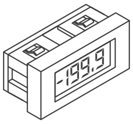

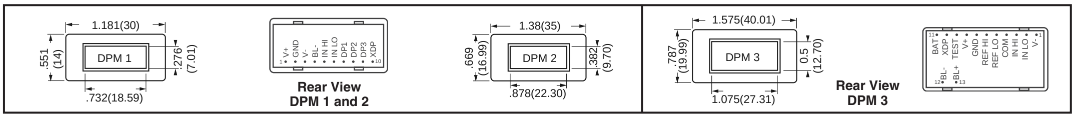

The DPM1, 2 and 3AS-BL features 200mVDC measurement with auto-zero and auto-polarity. Decimal points are user selectable. The DPM1, 2 and 3AS-BL features a negative rail generator which enables the meter to measure a signal referenced to its own power supply GND. LED backlighting ensures excellent readability under low light conditions. The design of the housing allows the module to be easily snapped into a panel. The modules low cost means it will suit high and low volume applications. The DPM1, 2 and 3AS-BL is intended to replace the DPM1, 2 and 3 and DPM1, 2 and 3S, requiring only minor circuit modifications.

Features: • 5.5mm (0.22") Digit Height • 200mVDC Full Scale Reading • 3.0 ~ 7.5V or 6.0 ~ 15.0V Operation • Auto-zero and Auto-polarity • Programmable Decimal Points • LED Backlighting

Description	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
Mini 5.5mm LCD Universal Meter with Backlight	227-1047-ND	58.26	55.35	52.44	DPM1AS-BL
Mini 8.2mm LCD Universal Meter with Backlight	227-1048-ND	63.26	60.10	56.94	DPM2AS-BL
Mini 11mm LCD Universal Meter with Backlight	227-1049-ND	66.60	63.27	59.94	DPM3AS-BL

V Series Very Low Cost Voltmeter

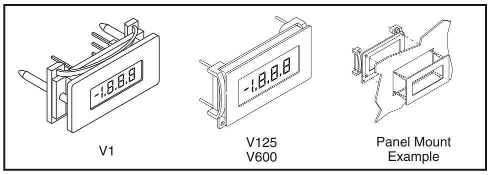

A range of low cost LCD, 3 1/2 digit panel instruments. The meters have a ±200mVdc full scale reading with a typical accuracy of 0.25%. These meters use a 9Vdc and are designed for high volume OEM applications where lowest possible cost is a major concern. They feature an exceptionally large display in a miniature package and includes auto-zero and user-selectable decimal points. All module's are supplied with a black panel mounting bezel kit.

Description	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
Mini LCD Voltmeter, .25" digit height, 200mV Input, Includes Bezel	227-1059-ND	19.84	18.85	17.86	V1
Standard LCD Voltmeter, .50" digit height, 200mV Input, Includes Bezel	227-1060-ND	21.66	20.58	19.50	V125
Large LCD Voltmeter, .60" digit height, 200mV Input, Includes Bezel	227-1061-ND	23.30	22.14	20.97	V600

QM Series 2-Wire Panel Meters

The QM Single Mounting Hole Series meters are Nema 4 rated meters for simple commercial and industrial applications. To install, the user need only drill a single 7/32" (5.5mm) hole in the panel. A rubber seal is included, providing splashproof protection for the unit when fitted to the meter during installation. Comes with meter, mounting nut, washer and panel seal. All meters have reverse polarity protection.

QM Voltmeter:
2 wire volt meter powered from the voltage that it is measuring. Only valid readings are displayed. The module indicates "LO" at voltages below 4V and "HI" at above 25V (40V for QM100V-40). • Measured Input Voltage: 4 ~ 25VDC (QM100V), 4 ~ 40VDC (QM100V-40) • Supply Voltage: 3 ~ 50VDC • Sample Rate: 3 samples /second • Operating Range: 0°C ~ 50°C

QM Thermometer:
A dual inside (sensor included) and outside (sensor required) digital thermometer that can display temperatures in either Fahrenheit or Celsius. • Internal Sensor: 14°F ~ 122°F (-10°C ~ 50°C) • External Sensor: -4°F ~ 428°F (-20°C ~ 220°C) • Operating Range: -10°C ~ 50°C • Supply Voltage: 4 ~ 28VDC

QM Hourmeter:
Automatically blanks the leading zeros for easy reading and display of hours and 1/10 hours. An output is provided that pulses high after every hour. Features trip and total time range. • Resolution Range: 9,999.9 hour or 99,999 hour. • Supply Voltage: 5 ~ 27VDC • Operating Range: 0°C ~ 50°C

QM130M Digitalized Analog Gauge:
An LCD analog gauge that looks similar to an analog voltmeter. A moving needle illustrates a quick confirmation of meter levels and changing colors allow quick visuals of meter status. This meter can be scaled for reading voltages or currents. • Supply Voltage: 5 ~ 12VDC • Resolution: 125mVDC • Full Scale Reading: 1VDC

QM140V Scalable Meter:
A universal 0 ~ 200mV input meter that with scaling resistors is able to measure 200mV/µA, 2V/mV and 20V/mA ranges. Trim pot calibration included on rear of meter. • Supply Voltage: 7.5V ~ 15VDC • Sample Rate: 3 samples/second • Operating Range: 0°C ~ 50°C

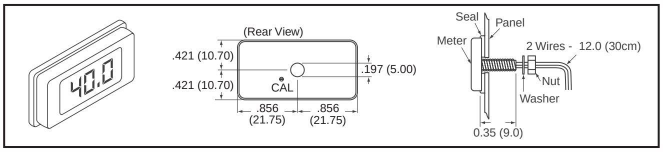

Description	Digi-Key Part No.	Price Each	Martel Part No.
Voltmeter 4 ~ 25VDC, 100mV res	227-1042-ND	41.60	QM100V
Voltmeter 4 ~ 40VDC, 200mV res	227-1054-ND	43.26	QM100V-40
Thermometer, Inside/Outside -10°C ~ 50°C	227-1043-ND	41.60	QM110T
Hourmeter; 9,999.9 hrs trip/totalized time	227-1044-ND	41.60	QM120C
LCD Analog Gauge, moving LCD needle	227-1045-ND	33.26	QM130M
Universal Scalable Meter, Volt/Current	227-1046-ND	50.60	QM140V

700 Series Industrial Voltmeter

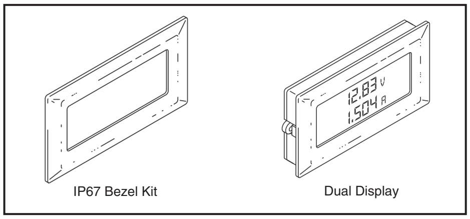

The 700 Series are a low cost LCD displays for panel instruments and portable equipment. Use the Dual Display meter to display "matched readings" ie voltage and current or temperature and humidity with separate selectable annunciators and calibration adjustments. Use the DPM742 (screw term connections) and 750 (with annunciators and low battery indicator) meters for portable equipment or industrial applications. LED Backlight standard on 742 and 750. Use optional IP67 silver metallic bezel for watertight, industrial applications. All meters include a standard black bezel kit.

Description	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
IP-67 Industrial Bezel Kit, for use with DPM742-BL and DPM750S-BL	227-1058-ND	23.34	22.18	21.01	BEZ700-IP
Dual Display Voltage-Amperage meter, 0-200mV Input	227-1057-ND	117.96	112.07	106.17	DPM702S
Large LCD (.50") 4-20mA Loop Meter, screw term connections	227-1056-ND	127.36	121.00	114.63	DPM742-BL
Large LCD (.50") Voltmeter, 20-0mV Input, with Annunciators/Low Batt	227-1055-ND	86.86	82.52	78.18	DPM750S-BL

35/65 Series Digital Panel Meters

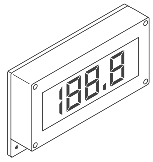

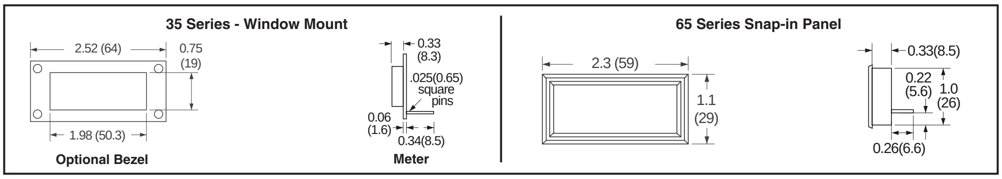

This range of meters is the low cost solution for a wide range of OEMs and Panel Builders. The DPM35 is available with either red or green LEDs and has an optional mounting bezel (BEZ35). The DPM65 has a reflective LCD display and comes with a snap-in bezel.

Inputs: • Ranges: ±200.0mV, ±2.000V, ±20.00V • Configuration: 035 Series: Bipolar differential; 065xS Series: Bipolar, single-ended; (INLO internally referenced to supply GND) • Protection: ±350VDC (±100VDC on 200mV range) • Impedance: >1MΩ (>10MΩ on 200mV range)
Power Supply: • Voltage: 5VDC (±5%)
Performance: • Accuracy: ±(0.1% +1 count) typical; ±(0.2% +2 counts) maximum • Temperature Coefficient: ± 100 ppm per °C typical • Operating Range: 0°C ~ 50°C • Storage Range: -10°C ~ 60°C
Mounting: • 035 Series: Window mount or bezel mount with optional bezel • 065 Series: Snap-in bezel mount • Connection: 10 pins, 0.025" (.635mm) square on 0.1" (2.54mm) centers

Description	Digi-Key Part No.	Price Each 1	5	10	Martel Part No.
DPM Red LED, 200mV, 35 Series	227-1034-ND	49.60	47.12	44.64	DPM35R
DPM Grn LED, 200mV, 35 Series	227-1035-ND	49.60	47.12	44.64	DPM35G
DPM Reflective LCD, Differential, 65 Series	227-1036-ND	49.60	47.12	44.64	DPM65
DPM Reflective LCD, Single-rail, 65 Series	227-1037-ND	49.60	47.12	44.64	DPM65S
Optional Snap-in Bezel for DPM35 Series	227-1038-ND	4.04	3.84	3.64	BEZ35

Digital Panel Meters

Fig. 1 — 1/8 Din Big Digit Panel Mount

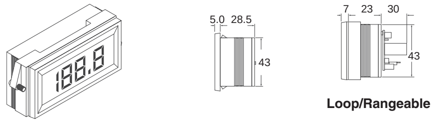

Fig. 2 — Window/Surface Mount LCD

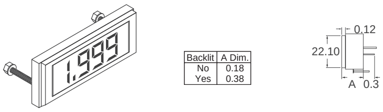

Fig. 3 — Snap-in LCD

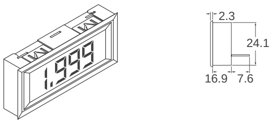

Fig. 4 — Snap-in LCD

1" (25.4mm) CUT-OUT!

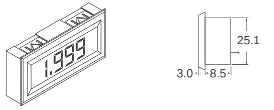

Fig. 5 — Mini LCD

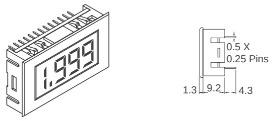

Fig. 6 — Flat Pack LCD

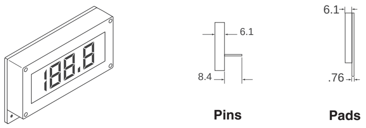

Fig. 7 — LCD Window/Surface Mount

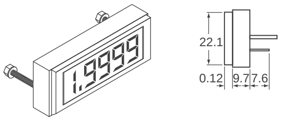

Fig. 8 — Panel Mount LED

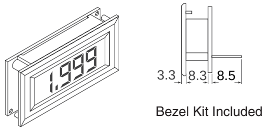

Fig. 9 — DIP Panel Meter LED

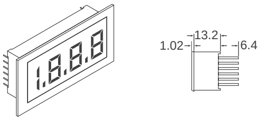

Fig. 10 — Process Meter

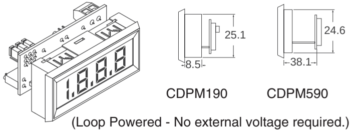

(Loop Powered - No external voltage required.)

CTON Digital Panel Meters are low cost, professional looking meters for industrial and OEM applications. Voltmeter versions feature autozero on powerup and can read both positive and negative DC voltages. Selectable decimal points allow easy voltage readings. LCD versions are available in either non-backlit (std LCD) or backlit (Red, Green or Blue) for low light viewing. CTON's 4-20mA loop type meters are intended to interface with sensor inputs that require power from the meter to operate. Sensors such as temperature, pressure, gas, airflow vibration, etc. can be used for loop meter monitoring. Use LCD meters for low power applications and long lifetimes or use LED versions for easier viewing in varying light conditions and different angles.

3.5 Digit LCD ***Specifications:*** • **Decimal Point:** User selectable 3-position • **Full Scale Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Power:** 9VDC isolated @ 180µA, 5VDC @ 3mA • **Conversion Rate:** 2.5 per second • **Storage Temperature:** -10°C ~ 50°C • **Type:** Surface Mount • **Pins:** 13 or 10 pins, .64mm square on 2.54mm centers • **Backlit Power Options:** +5 VDC, ±5%, Red 165mA typical (200mA maximum); Green 115mA typical (160mA maximum) • **Backlit Connections:** Standard 2 solder pads • **Styles:** Surface/window or snap-in bezel mount

Miniature LCD ***Specifications:*** • **Annunciators:** 11 different user selectable annunciators: BAT, °C, °F, ~, m, µ, MΩ, KΩ, V, A, HOLD • **Decimal Point:** User selectable 3-position • **Full Scale Range:** Standard ±200mVDC, ±2VDC • **Power:** 9VDC isolated (7.2-15V) at 150µA, 5VDC @ 5mA • **Conversion Rate:** 2.5 per second • **Storage Temperature:** -20°C ~ 70°C • **Type:** Snap-in Bezel Mount • **Pins:** Standard 26 pins, .46mm square, DIP style

4.5 Digit LCD ***Specifications:*** • **Annunciators:** 9VDC powered meters have "BT" when power <7.2VDC • **Decimal Point:** User selectable 4-position • **Hold:** Standard feature • **Full Scale Range:** ±200mVDC and ±2VDC • **Power:** 9VDC isolated @ 1mA, 5VDC @ 3.5mA • **Conversion Rate:** 2 per second • **Storage Temperature:** -10°C ~ 60°C • **Types:** Surface/window mount • **Pins:** 13 pins, .64mm square on 2.54mm centers

3.5 Digit LED ***Specifications:*** • **Type:** 7-segment light emitting diode (LED) • **Digits:** 0.56" (12.7mm) height • **Color:** Green or Red • **Polarity:** Displays (–) automatically • **Decimal Point:** User selectable 3-position • **Over/Under Range:** Over range displays "1" and under-range displays "-1" • **Hold:** Standard feature • **Full Scale Ranges:** ±200mVDC, ±2VDC, ±20VDC • **Configuration:** Bipolar, fully differential • **Power:** +5VDC, ±5% at 200mA • **Conversion Rate:** 3 per second • **Zeroing:** Automatic • **Operating Temperature:** 0°C ~ 50°C • **Storage Temperature:** -20°C ~ 70°C • **Relative Humidity:** 0 to 95% non-condensing • **Type:** Bezel Mount • **Pins:** Standard 10 pins, .64mm square on 2.54mm centers • **5-Year Unconditional Warranty**

Process Meter ***Specifications:*** • Meter and loop powered/controlled PCB in one unit • 3.5 or 4.5 digit • LCD and red or green LED • Fully scalable • 300Ω Impedance, nominal

Fig.	Supply	Input	Digit Color	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	C-Ton Part No.	Use Cable Assy.
1/8 Din Big Digit 3.5 LCD									
1	+5	200mV	—	CDPM801A-ND•	59.74	56.76	52.28	DK801A	Incl.
	+5	2V	—	CDPM802A-ND•	59.74	56.76	52.28	DK802A	Incl.
	+5	20V	—	CDPM803A-ND•	59.74	56.76	52.28	DK803A	Incl.
	Loop	4-20mA	—	CDPM807A-ND•	69.72	66.24	61.01	DK807A	—
	Loop	4-20mA	- Blue	CDPM757B-ND	82.42	78.30	72.12	DK757B	—
	Loop	4-20mA	- Red	CDPM857B-ND	69.72	66.24	61.01	DK857B	—
	Loop	4-20mA	- Green	CDPM957B-ND	69.72	66.24	61.01	DK957B	—
Range Selectable									
1	12/24V	5/10V/200mV	—	CDPM809-ND•	69.72	66.24	61.01	DK809	—
	12/24V	5/10V/200mV	- Blue	CDPM759-ND	82.42	78.30	72.12	DK759	—
	12/24V	5/10V/200mV	- Red	CDPM859-ND	69.72	66.24	61.01	DK859	—
	12/24V	5/10V/200mV	- Green	CDPM959-ND	69.72	66.24	61.01	DK959	—
1/8 Din Big Digit 3.5 LED									
1	+5	200mV	Red	CDPM851A-ND	59.74	56.76	52.28	DK851A	Incl.
	+5	2V	Red	CDPM852A-ND	59.74	56.76	52.28	DK852A	Incl.
	+5	20V	Red	CDPM853A-ND	59.74	56.76	52.28	DK853A	Incl.
	+24V	4-20mA	Red	CDPM857A-ND	66.40	63.08	58.10	DK857A	Incl.
	+5	200mV	Green	CDPM951A-ND	59.74	56.76	52.28	DK951A	Incl.
	+5	2V	Green	CDPM952A-ND	59.74	56.76	52.28	DK952A	Incl.
	+5	20V	Green	CDPM953A-ND	59.74	56.76	52.28	DK953A	Incl.
	+24V	4-20mA	Green	CDPM957A-ND	66.40	63.08	58.10	DK957A	Incl.
Window/Surface Mount 3.5 Digit LCD									
2	+9	200mV	—	CDPM101-ND•	39.80	37.81	34.83	DK101	J4C13
	+9	2V	—	CDPM102-ND•	39.80	37.81	34.83	DK102	J4C13
	+9	20V	—	CDPM103-ND•	39.80	37.81	34.83	DK103	J4C13
	+5	200mV	—	CDPM301-ND•	39.80	37.81	34.83	DK301	J1C13
	+5	2V	—	CDPM302-ND•	39.80	37.81	34.83	DK302	J1C13
	+5	20V	—	CDPM303-ND•	39.80	37.81	34.83	DK303	J1C13
	+5	200mV	Green	CDPM331-ND	49.78	47.30	43.56	DK331	J1C13
	+5	2V	Green	CDPM332-ND	49.78	47.30	43.56	DK332	J1C13
	+5	200mV	- Green	CDPM431-ND	49.78	47.30	43.56	DK431	J1C13
	+5	2V	- Green	CDPM432-ND	49.78	47.30	43.56	DK432	J1C13
	+5	200mV	- Red	CDPM531-ND	49.78	47.30	43.56	DK531	J1C13
	+5	2V	- Red	CDPM532-ND	49.78	47.30	43.56	DK532	J1C13
Snap-in 3.5 Digit LCD									
3	+5	200mV	—	CDPM500-ND•	39.80	37.81	34.83	DK500	J1C13
	+5	2V	—	CDPM501-ND•	39.80	37.81	34.83	DK501	J1C13
	+5	20V	—	CDPM502-ND•	39.80	37.81	34.83	DK502	J1C13
	+9	200mV	—	CDPM503-ND	39.80	37.81	34.83	DK503	J4C13
	+9	2V	—	CDPM504-ND	39.80	37.81	34.83	DK504	J4C13
	+9	20V	—	CDPM505-ND	39.80	37.81	34.83	DK505	J4C13
Snap-in 3.5 Digit LCD — 25.40mm Cutout									
4	+5	200mV	—	CDPM110-ND•	39.80	37.81	34.83	DK110	J1C10
	+5	2V	—	CDPM111-ND•	39.80	37.81	34.83	DK111	J1C10
	+5	20V	—	CDPM112-ND•	39.80	37.81	34.83	DK112	J1C10
Miniature 3.5 Digit LCD									
5	+5	200mV	—	CDPM201-ND•	39.80	37.81	34.83	DK201	—
	+5	2V	—	CDPM202-ND•	39.80	37.81	34.83	DK202	—
	+9	2V	—	CDPM204-ND•	39.80	37.81	34.83	DK204	—
	+9	200mV	—	CDPM203-ND•	39.80	37.81	34.83	DK203	—

Fig.	Supply	Input	Digit Color	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	C-Ton Part No.	Use Cable Assy.
Flat Pack 3.5 Digit LCD									
6	+9	200mV	—	CDPM171-ND§•	39.80	37.81	34.83	DK171	—
	+9	2V	—	CDPM172-ND§•	39.80	37.81	34.83	DK172	—
	+9	20V	—	CDPM173-ND§•	39.80	37.81	34.83	DK173	—
	+9	200mV	—	CDPM174-ND‡•	39.80	37.81	34.83	DK174	—
	+9	2V	—	CDPM175-ND‡•	39.80	37.81	34.83	DK175	—
	+9	20V	—	CDPM176-ND‡•	39.80	37.81	34.83	DK176	—
	+5	200mV	—	CDPM177-ND‡•	39.80	37.81	34.83	DK177	—
	+5	2V	—	CDPM178-ND‡•	39.80	37.81	34.83	DK178	—
	+5	20V	—	CDPM179-ND‡•	39.80	37.81	34.83	DK179	—
Bezel Kit for DK170 Series				CDPM170-ND	6.20	5.89	5.43	DK170	—
Window/Surface Mount 4.5 Digit LCD									
7	+5	200mV	—	CDPM702-ND•	49.78	47.30	43.56	DK702	J4C13
	+5	2V	—	CDPM703-ND•	49.78	47.30	43.56	DK703	J4C13
	+9	200mV	—	CDPM704-ND•	49.78	47.30	43.56	DK704	J4C13
	+9	2V	—	CDPM705-ND•	49.78	47.30	43.56	DK705	J4C13
Snap-in 4.5 Digit LCD									
3	+5	200mV	—	CDPM710-ND•	49.78	47.30	43.56	DK710	J4C13
	+5	2V	—	CDPM711-ND•	49.78	47.30	43.56	DK711	J4C13
	+5	20V	—	CDPM712-ND•	49.78	47.30	43.56	DK712	J4C13
3.5 Digit LED									
8	+5	200mV	Green	CDPM601-ND	39.80	37.81	34.83	DK601	J1C10
	+5	2V	Green	CDPM602-ND	39.80	37.81	34.83	DK602	J1C10
	+5	20V	Green	CDPM603-ND	39.80	37.81	34.83	DK603	J1C10
	+5	200mV	Red	CDPM604-ND	39.80	37.81	34.83	DK604	J1C10
	+5	2V	Red	CDPM605-ND	39.80	37.81	34.83	DK605	J1C10
	+5	20V	Red	CDPM606-ND	39.80	37.81	34.83	DK606	J1C10
DIP Panel Meter 3.5 Digit LED									
9	+5	200mV	Red	CDPM630-ND	45.78	43.50	40.06	DK630	—
	+5	2V	Red	CDPM631-ND	45.78	43.50	40.06	DK631	—
	+5	20V	Red	CDPM632-ND	45.78	43.50	40.06	DK632	—
	+5	200mV	Green	CDPM633-ND	45.78	43.50	40.06	DK633	—
	+5	2V	Green	CDPM634-ND	45.78	43.50	40.06	DK634	—
	+5	20V	Green	CDPM635-ND	45.78	43.50	40.06	DK635	—
	+5	200mV	Blue	CDPM636-ND	55.76	52.98	48.79	DK636	—
	+5	2V	Blue	CDPM637-ND	55.76	52.98	48.79	DK637	—
	+5	20V	Blue	CDPM638-ND	55.76	52.98	48.79	DK638	—
DIP Panel Meter 3.5 Digit LED with Hold Function									
9	+5	200mV	Red	CDPM640-ND	49.78	47.30	43.56	DK640	—
	+5	2V	Red	CDPM641-ND	49.78	47.30	43.56	DK641	—
	+5	20V	Red	CDPM642-ND	49.78	47.30	43.56	DK642	—
Bezel for 630/640 Series				CDPM650-ND	2.00	1.90	1.75	DLA-BEZ	—
Process Meter									
10	Loop	4-20mA	—	CDPM590-ND•	64.84	61.60	56.74	DK590	—
	Loop	4-20mA	—	CDPM190-ND•	64.84	61.60	56.74	DK190	—

Note: Other ranges and colors available at digikey.com § Pad ‡ Pin • Non-Backlit

Epic Series

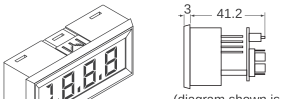

(diagram shown is Rangeable version)

3 1/2 and 4 1/2 Digit Voltage and Process Meters

CTON's Epic Series are industrial digital meters intended as replacement meters for many popular panel and process meters. Wide range of input voltages, display options and user selectable annunciators make these meters universal for use as voltmeters, temperature readings, pressure readings and percentage displays. • RFI/EMI shielded • Snap-In Bezel for the popular 1" panel cutout • **5 year Unconditional Warranty**

Common Specifications:

• **Power:** 5VDC @ 3.5mA • **Digits:** .45" (11.43mm) seven segment LCD • **Annunciators:** User selectable °F, °C, PSI, % • **Decimal Point:** User selectable • **Colors:** Amber numerals, Green numerals, Red numerals, Green background • **Backlight Power:** 5VDC • **Input Ranges:** ±200mV, ±2V, ±20V • **Conversion Rate:** 3 per second • **Operating Temperature:** 0°C ~ 50°C • **Storage Temperature:** -10° ~ 60°C • **Over/under Range Indication:** 1.... / -1.... • **Pins:** 13 pins, 0.025" (.64mm) square on 0.100" (2.54mm) centers • **Configuration:** Bipolar, true differential • **Panel Clearance Required:** 1.25" (31.75mm) • **Case Style:** Snap-in bezel mounting • **Panel Cutout:** 1"x 2.4"

Process Common Specifications:

• Meter and loop powered PCB in one package • **Power:** Powered by the 4-20mA process loop • **Optional Backlight Power:** 5VDC, 24VDC • **Range:** Fully scalable • **Digits:** .45" (11.43mm) seven segment LCD • **Colors:** Standard LCD, Amber numerals, Green numerals, Red numerals, Black numerals with Green background • **Annunciators:** User selectable °F, °C, PSI, % • **Operating Temperature:** 0° ~ 50°C • **Over/under Range Indication:** 1.... / -1.... • **Wiring:** 2 pin screw terminals (4 pin with optional backlights) • **Panel Clearance Required:** 1.75" (44.45mm) • **Case Style:** Snap-in bezel mounting

Rangeable Voltage Specifications:

3.5 & 4.5 digit with high-contrast LCD display • Power: 12VDC or 24VDC regulated (selectable) • Inputs: 0-5VDC, 0-10VDC, or 0 - 200mv DC (selectable) • Optional Negative Backlight (back ground black, digits color): BL power 24VDC at 24ma. • Polarity: Automatic • Annunciators: User selectable F, C, PSI, % • Decimal Point: User selectable • Operating Temperature: 0°C ~ 50°C • Connection: 6 screw terminal • Case: Snap-in Bezel

Optional Accessories for all CTON Displays

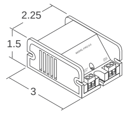

Power Supply for C-Ton Displays

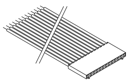

Cable Assembly for C-Ton Displays

Description	Digi-Key Part No.	Price Each 1	10	50	C-Ton Part No.
Power Supplies					
5VDC Out, 300mA	CDPM1000-ND	20.90	19.86	18.29	PW2-5
12VDC Out, 300mA	CDPM1001-ND	20.90	19.86	18.29	PW2-12
24VDC Out, 100mA	CDPM1002-ND	20.90	19.86	18.29	PW2-24
Cable Assemblies					
10 Pin Connector with 12" Wires, 26AWG	CDPM1003-ND	3.16	3.01	2.77	J1C10
13 Pin Connector with 12" Wires, 26AWG	CDPM1004-ND	3.16	3.01	2.77	J1C13
13 Pin Connector with 12" Wires, 26AWG	CDPM1005-ND	3.16	3.01	2.77	J4C13

Supply	Input	Digit Color	Backlit Voltage	Digi-Key Part No.	Price Each 1	10	50	C-Ton Part No.	Use Cable Assy.
Epic Series Voltage and Process Meters									
3.5 Digit LCD									
+5	200mV	—	—	CDPM541-ND•	39.80	37.81	34.83	DK541	J4C13
	2V	—	—	CDPM542-ND•	39.80	37.81	34.83	DK542	J4C13
	20V	—	—	CDPM543-ND•	39.80	37.81	34.83	DK543	J4C13
	2V	- Amber	5VDC	CDPM552-ND	49.78	47.30	43.56	DK552	J4C13
	20V	- Amber	5VDC	CDPM553-ND	49.78	47.30	43.56	DK553	J4C13
	2V	- Green	5VDC	CDPM562-ND	49.78	47.30	43.56	DK562	J4C13
	20V	- Green	5VDC	CDPM563-ND	49.78	47.30	43.56	DK563	J4C13
	2V	- Red	5VDC	CDPM572-ND	49.78	47.30	43.56	DK572	J4C13
	20V	- Red	5VDC	CDPM573-ND	49.78	47.30	43.56	DK573	J4C13
3.5 Digit Process									
Loop	4-20mA	—	—	CDPM191-ND•	71.82	68.23	62.85	DK191	—
	4-20mA	- Amber	24VDC	CDPM192-ND	81.80	77.71	71.58	DK192	—
	4-20mA	- Green	24VDC	CDPM193-ND	81.80	77.71	71.58	DK193	—
	4-20mA	- Red	24VDC	CDPM194-ND	81.80	77.71	71.58	DK194	—
3.5 Rangeable									
12/24V	5/10V/200mV	- Amber	5VDC	CDPM196-ND	81.80	77.71	71.58	DK196	—
	5/10V/200mV	- Green	5VDC	CDPM197-ND	81.80	77.71	71.58	DK197	—
	5/10V/200mV	- Red	5VDC	CDPM198-ND	81.80	77.71	71.58	DK198	—
	5/10V/200mV	—	—	CDPM199-ND•	71.82	68.23	62.85	DK199	—
4.5 Digit LCD									
+5	200mV	—	—	CDPM741-ND•	49.78	47.30	43.56	DK741	J4C13
	2V	—	—	CDPM742-ND•	49.78	47.30	43.56	DK742	J4C13
	20V	—	—	CDPM743-ND•	49.78	47.30	43.56	DK743	J4C13
+5	2V	- Amber	5VDC	CDPM752-ND	59.74	56.76	52.28	DK752	J4C13
	20V	- Amber	5VDC	CDPM753-ND	59.74	56.76	52.28	DK753	J4C13
+5	2V	- Green	5VDC	CDPM762-ND	59.74	56.76	52.28	DK762	J4C13
	20V	- Green	5VDC	CDPM763-ND	59.74	56.76	52.28	DK763	J4C13
+5	2V	- Red	5VDC	CDPM772-ND	59.74	56.76	52.28	DK772	J4C13
	20V	- Red	5VDC	CDPM773-ND	59.74	56.76	52.28	DK773	J4C13
4.5 Digit Process									
Loop	4-20mA	—	—	CDPM790-ND•	89.78	85.30	78.56	DK790	—
	4-20mA	- Amber	24VDC	CDPM791-ND	98.76	93.83	86.42	DK791	—
	4-20mA	- Green	24VDC	CDPM793-ND	98.76	93.83	86.42	DK793	—
	4-20mA	- Red	24VDC	CDPM794-ND	98.76	93.83	86.42	DK794	—
4.5 Rangeable									
12/24V	5/10V/200mV	- Amber	5VDC	CDPM796-ND	98.76	93.83	86.42	DK796	—
	5/10V/200mV	- Green	5VDC	CDPM797-ND	98.76	93.83	86.42	DK797	—
	5/10V/200mV	- Red	5VDC	CDPM798-ND	98.76	93.83	86.42	DK798	—
	5/10V/200mV	—	—	CDPM799-ND•	89.78	85.30	78.56	DK799	—

Note: • Non-Backlit

Panasonic Electric Works

The new name for Aromat

Timers, Counters and Hour Meters

LCD Hour Meters

Panasonic/Aromat hour meters display total time when the signal input terminal is connected either together (No-Voltage, using a switch or relay) or the rated input voltage is applied directly to the input terminal (AC/DC Volt type).

All hour meters feature a built-in 10 year battery for long life and screw terminals for easy connections.

Features:

• Large 7-digit LCD display value reading • Wide range of measurement: 0 ~ 3999 days, 23.9 hours; 0 ~ 9999 hours, 59.9 minutes

Panel Cutout

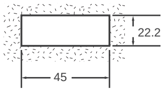

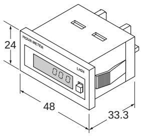

Input Type	Time Range	Reset	Digi-Key Part No.	Price Each 1	25	Panasonic Part No.
200-240VAC	0~3999 days, 23.9 hrs	Manual PB	255-1183-ND	41.25	39.60	LH24-F-DH-AH

LT4H Digital Timer

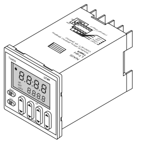

Panasonic/Aromat's LT4H Digital Timer is intended for process control for applications requiring duration time control such as delay-on/off, repeat cycle and start/stop time accumulation. The LT4H has features such as a bright 2 color back-lit display and EE-Prom memory, keeping your program settings without the need of an internal battery. The waterproof front panel keeps out dirt and water under poor operating conditions.

Timing from .001 second to 999.9 hours, with 8 modes of operation and built-in timed SPDT relay (5A 250VAC).

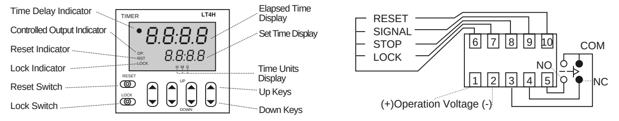

Operating Voltage	Terminal	Digi-Key Part No.	Price Each 1	25	50	Panasonic Part No.
100-240VAC	11 pin octal	255-1214-ND	104.00	93.60	88.40	LT4H-AC240V
100-240VAC	Screw	255-1215-ND	104.00	93.60	88.40	LT4H-AC240VS
12-24VDC	11 pin octal	255-1216-ND	104.00	93.60	88.40	LT4H-DC24V
12-24VDC	Screw	255-1217-ND	104.00	93.60	88.40	LT4H-DC24VS

LC4H Digital Counters

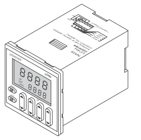

Panasonic/Aromat's LC4H Digital Counters are presettable counters that will count up or count down until your preset count is reached, then trigger the internal relay to switch in one of seven output modes.

Features such as 2 color back-lit display and waterproof front panel display allow this counter to be used in extreme environments.

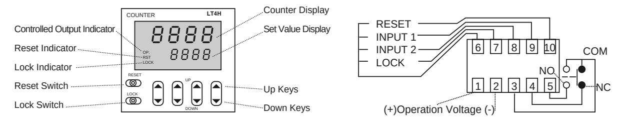

Operating Voltage	Terminal	Digi-Key Part No.	Price Each 1	25	50	Panasonic Part No.
100-240VAC	11 pin octal	255-1218-ND	106.00	95.40	90.10	LC4H-R4-AC240V
100-240VAC	Screw	255-1219-ND	110.50	99.45	93.93	LC4H-R4-AC240VS
12-24VDC	11 pin octal	255-1220-ND	101.00	90.90	85.85	LC4H-R4-DC24V
12-24VDC	Screw	255-1221-ND	105.50	94.95	89.68	LC4H-R4-DC24VS

FAIRCHILD SEMICONDUCTOR®

Infrared Photosensors and Emitters

Fig. 1

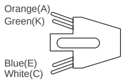

Fig. 2

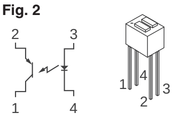

Fig. 3 – TO-46 2 Lead

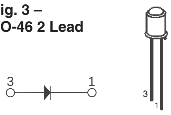

Fig. 4 – TO-46 Flat Window 2 Lead

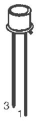

Fig. 5

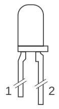

Fig. 6

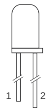

Fig. 7

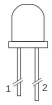

Fig. 8

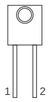

Reflective Photosensors

Fig.	Output Type	Min/Max Output Ic @ If	Optimum Sensing Distance	Termi-nation	Digi-Key Part No.	Price Each 1	10	100	500
1	Transistor	.6/3 @ 40mA	3.81mm	Leads	QRB1114-ND	1.35	1.13	.90	.63
1	Transistor	.6/3 @ 40mA	3.81mm	Wires	QRB1134-ND	1.94	1.56	1.17	1.05
2	Transistor	1/5 @ 20mA	1.27mm	Leads	QRD1114-ND	.94	.79	.63	.44

Semiconductor Infrared Emitters (IRED LEDs)

Fig.	For-ward Volt. (V)	Max. Forward Current (mA)	Min. Power Output	Beam Angle +/-	Peak Wave-Length (nm)	Pkg. Type	Digi-Key Part No.	Price Each 1	10	100	500
3	1.7	100	6.0mW/sr	8	940	TO-46	1N6264-ND	2.38	1.90	1.43	1.29
4	1.7	100	6.0mW	40	940	TO-46	1N6265-ND	2.38	1.90	1.43	1.29
3	1.7	100	25.0mW/sr	10	940	TO-46	1N6266-ND	2.40	1.92	1.44	1.30
3	1.7	100	5.4mW	10	940	TO-46	CQX14-ND	1.94	1.56	1.17	1.05
4	1.7	100	5.4mW	40	940	TO-46	CQX15-ND	1.90	1.53	1.15	1.03
3	1.7	100	12.0mW	10	880	TO-46	F5D1-ND	2.13	1.71	1.28	1.16
3	1.7	100	9.0mW	10	880	TO-46	F5D2-ND	2.06	1.65	1.24	1.11
3	1.7	100	10.5mW	10	880	TO-46	F5D3-ND	2.08	1.67	1.25	1.13
4	1.7	100	12.0mW	40	880	TO-46	F5E1-ND	2.13	1.71	1.28	1.16
4	1.7	100	10.5mW	40	880	TO-46	F5E3-ND	2.08	1.67	1.25	1.13
3	1.7	100	1.5mW/sr	10	940	TO-46	LED56-ND	1.87	1.50	1.13	1.01
4	1.7	100	3.5mW/sr	40	940	TO-46	LED55BF-ND	1.87	1.50	1.13	1.01
3	1.7	100	3.5mW/sr	10	940	TO-46	LED55B-ND	1.91	1.53	1.15	1.03
3	1.7	100	5.4mW/sr	8	940	TO-46	LED55C-ND	1.94	1.56	1.17	1.05
5	1.7	50	14mW/sr	8	940	T-1	QEC113-ND	.45	.36	.27	.15
5	1.7	50	27mW/sr	8	880	T-1	QEC122-ND	.54	.41	.31	.19
6	1.5	100	80mW/sr	9	880	T-1 3/4	QED123-ND	.60	.45	.34	.21
6	1.7	100	16mW/sr	20	880	T-1 3/4	QED222-ND	.54	.41	.31	.19
6	1.7	100	25mW/sr	20	880	T-1 3/4	QED223-ND	.60	.45	.34	.21
6	1.5	100	10mW/sr	20	940	T-1 3/4	QED233-ND	.50	.41	.28	.17
6	1.5	100	27mW/sr	20	940	T-1 3/4	QED234-ND	.45	.36	.27	.15
7	1.7	100	18mW/sr	30	880	Plastic TO-46	QED423-ND	.98	.74	.56	.35
7	1.7	100	20mW/sr	15	880	Plastic TO-46	QED522-ND	.54	.41	.31	.19
7	1.7	100	40mW/sr	15	880	Plastic TO-46	QED523-ND	.60	.45	.34	.21
8	1.5	50	3mW/sr	25	940	SIDELOOK	QEE113-ND	.49	.39	.30	.17
8	1.7	50	8mW/sr	25	880	SIDELOOK	QEE123-ND	.54	.41	.31	.19

ZiLOG

IrDA Transceiver Module

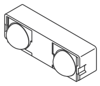

Zilog's opto-wireless transceiver module is compatible with IrDA standard.
Applications: • Portable printers • Handheld computers • Personal data assistants (PDAs)

Data Vcc (V)	Transfer Rate (kbps)	Digi-Key Part No.	Cut Tape Price Each 1	25	100	Tape & Reel† Size	Pricing	Zilog Part No.
2.4 ~ 3.6	115.2	269-3862-1-ND ***NEW!***	4.44	3.33	2.96	2,500	2456.80/M	ZHX1223TB115THTR
2.4 ~ 3.6	115.2	269-3822-1-ND	4.86	3.65	3.24	3,500	2689.20/M	ZHX1403MA115TH2090TR
2.4 ~ 3.6	115.2	269-3821-1-ND	4.86	3.65	3.24	3,500	2689.20/M	ZHX1423TA115THTR
2.4 ~ 5.5	115.2	269-3246-1-ND	4.05	3.04	2.70	2,000	2241.00/M	ZHX1810MV115THTR
2.4 ~ 5.5	115.2	269-3126-1-ND	4.05	3.04	2.70	2,000	2241.00/M	ZHX1820TV115THTR
2.4 ~ 5.5	115.2	269-3244-1-ND	4.20	3.15	2.80	2,000	2324.00/M	ZHX1820TV115XHTR
2.7 ~ 5.5	4,000	269-3636-1-ND	4.65	3.49	3.10	1,000	2573.00	ZHX2022MV040THTR
2.7 ~ 5.5	4,000	269-3637-1-ND	4.65	3.49	3.10	1,000	2573.00	ZHX2022TV040THTR

† For Tape and Reel part number, change 1-ND to 2-ND.

AVAGO TECHNOLOGIES

IrDA Transceiver Modules

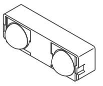

Supply Voltage	Data Rate Max.	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel† Size	Pricing	Avago Part No.
2.7 ~ 5.5V	115.2 kb/s	516-1271-1-ND	2.80	2.45	2.10	2,500	1862.00/M	HSDL-3000#007
2.7 ~ 3.6V	115.2 kb/s	516-1272-1-ND	3.40	2.98	2.55	500	1130.50	HSDL-3201#001
2.4 ~ 3.6V	115.2 kb/s	516-1273-1-ND	2.70	2.37	2.03	2,500	1795.50/M	HSDL-3208-021
2.4 ~ 3.6V	115.2 kb/s	516-1700-1-ND	2.86	2.51	2.15	2,500	1902.00/M	HSDL-3209-021
2.7 ~ 3.6V	4.0 Mb/s	516-1701-1-ND	3.10	2.72	2.33	2,500	2062.00/M	HSDL-3220-021
2.7 ~ 3.6V	4.0 Mb/s	516-1274-1-ND	3.50	3.07	2.63	400	931.00	HSDL-3602-007
2.7 ~ 5.25V	115.2 kb/s	516-1275-1-ND	3.40	2.98	2.55	400	904.40	HSDL-3612-007
IR 3/16 Encoder/Decoder		516-1276-1-ND	4.20	3.85	3.50	2,500	2030.00/M	HSDL-7001
IR 3/16 Encoder/Decoder		516-1702-1-ND	3.45	3.17	2.88	2,500	1725.00/M	HSDL-7002

† For Tape and Reel part number, change 1-ND to 2-ND.

SHARP® MICROELECTRONICS

Remote Control Receivers

Supply Voltage 2.4 to 5.5V

Fig. 1

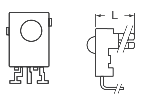

Fig. 2

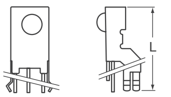

Fig. 3

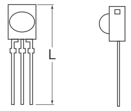

Fig.	Detecting Window	B.P.F. fo (kHz) Typ.	Current Dissipation Icc (mA) Max.	Length (mm)	Digi-Key Part No.	Price Each 1	10	100	Sharp Part No.
1	Top	36.7	.2	8.8	425-1117-ND	1.15	.92	.76	GP1UD262XK
		36.7	1.5	8.8	425-1134-ND	1.13	.90	.75	GP1UM262XK
		36.7	1.5	13.8	425-1141-ND#	1.13	.90	.75	GP1UM272RK
		36.7	1.5	13.8	425-1142-ND	1.13	.90	.75	GP1UM272XK
		36.7	.2	14	425-1121-ND	1.15	.92	.76	GP1UD272XK
		36.7	1.5	17.8	425-1150-ND#	1.13	.90	.75	GP1UM282RK
		36.7	1.5	17.8	425-1151-ND	1.13	.90	.75	GP1UM282XK
		36.7	.2	18	425-1126-ND	1.15	.92	.76	GP1UD282XK
		38	.2	8.8	425-1931-5-ND‡	1.15	.92	.76	GP1UD261XKOF
		38	0.6	8.8	425-1899-ND	1.08	.90	.72	GP1UE261XK
		38	1.5	8.8	425-1132-ND#	1.13	.90	.75	GP1UM261RK
		38	1.5	8.8	425-1133-ND	1.13	.90	.75	GP1UM261XK
		38	1.5	8.8	425-2007-ND◊	1.13	.90	.75	GP1UM261XK0F
		38	1.5	13.8	425-1139-ND#	1.13	.90	.75	GP1UM271RK
		38	1.5	13.8	425-1140-ND	1.13	.90	.75	GP1UM271XK
		38	.2	14	425-1120-ND	1.15	.92	.76	GP1UD271XK
		38	0.6	14.0	425-1902-ND	1.08	.90	.72	GP1UE271XK
		38	.2	18	425-1124-ND	1.15	.92	.76	GP1UD281XK
		38	0.6	18.0	425-1905-ND	1.08	.90	.72	GP1UE281XK
		40	.2	8.8	425-1119-ND	1.15	.92	.76	GP1UD26XK
		40	0.6	8.8	425-1901-ND	1.08	.90	.72	GP1UE26XK
		40	1.5	13.8	425-1145-ND#	1.13	.90	.75	GP1UM27RK
		40	1.5	13.8	425-1146-ND	1.13	.90	.75	GP1UM27XK
		40	.2	14	425-1123-ND	1.15	.92	.76	GP1UD27XK
		40	0.6	14.0	425-1904-ND	1.08	.90	.72	GP1UE27XK
		40	1.5	17.8	425-1158-ND#	1.13	.90	.75	GP1UM28RK
		40	1.5	17.8	425-1159-ND	1.13	.90	.75	GP1UM28XK
		40	.2	18	425-1130-ND	1.15	.92	.76	GP1UD28XK
		40	0.6	18.0	425-1909-ND	1.08	.90	.72	GP1UE28XK
		56.8	.2	8.8	425-1118-ND	1.15	.92	.76	GP1UD267XK
		56.8	0.6	8.8	425-1900-ND	1.08	.90	.72	GP1UE267XK
		56.8	1.5	8.8	425-1136-ND	1.13	.90	.75	GP1UM267XK
		56.8	1.5	13.8	425-1143-ND#	1.13	.90	.75	GP1UM277RK
		56.8	1.5	13.8	425-1144-ND	1.13	.90	.75	GP1UM277XK
		56.8	.2	14	425-1122-ND	1.15	.92	.76	GP1UD277XK
		56.8	0.6	14.0	425-1903-ND	1.08	.90	.72	GP1UE277XK
		56.8	1.5	17.8	425-1154-ND#	1.13	.90	.75	GP1UM287RK
		56.8	1.5	17.8	425-1155-ND	1.13	.90	.75	GP1UM287XK
		56.8	.2	18	425-1128-ND	1.15	.92	.76	GP1UD287XK
		56.8	0.6	18.0	425-1907-ND	1.08	.90	.72	GP1UE287XK
2	Side	36.7	1.5	16.1	425-1149-ND#	1.13	.90	.75	GP1UM282QK
		36.7	1.5	16.1	425-1152-ND	1.13	.90	.75	GP1UM282YK
		36.7	.2	16.6	425-1127-ND	1.15	.92	.76	GP1UD282YK
		38	1.5	16.1	425-1147-ND#	1.35	1.13	.90	GP1UM281QK
		38	1.5	16.1	425-1148-ND	1.13	.90	.75	GP1UM281YK
		38	.2	16.6	425-1125-ND	1.15	.92	.76	GP1UD281YK
		38	0.6	16.6	425-1906-ND	1.08	.90	.72	GP1UE281YK
		40	1.5	16.1	425-1160-ND	1.13	.90	.75	GP1UM28YK
		40	.2	16.6	425-1131-ND	1.15	.92	.76	GP1UD28YK
		40	0.6	16.6	425-1910-ND	1.08	.90	.72	GP1UE28YK
		56.8	1.5	16.1	425-1153-ND#	1.13	.90	.75	GP1UM287QK
		56.8	1.5	16.1	425-1156-ND	1.13	.90	.75	GP1UM287YK
		56.8	.2	16.6	425-1129-ND	1.15	.92	.76	GP1UD287YK
		56.8	0.6	16.6	425-1908-ND	1.08	.90	.72	GP1UE287YK
3	Side	36	1.5	28	425-1852-ND#	1.53	1.28	1.02	GP1UV700QS
		36	0.6	28	425-1856-ND#	1.53	1.28	1.02	GP1UW700QS
		36.7	1.5	28	425-1851-ND#	1.53	1.28	1.02	GP1UV702QS
		36.7	0.6	28	425-1855-ND#	1.53	1.28	1.02	GP1UW702QS
		38	1.5	28	425-1850-ND#	1.14	.95	.76	GP1UV701QS
		38	1.5	28.0	425-1911-ND	.84	.70	.56	GP1UX501QS
		38	0.6	28	425-2501-ND#◊	.96	.80	.64	GP1UX511QS
		40	1.5	28	425-1849-ND#	1.14	.95	.76	GP1UV70QS
		40	0.6	28	425-1853-ND#	1.20	1.00	.80	GP1UW70QS

‡ Tube   # With mesh   ◊ ***RoHS Compliant***

IrDA Transceiver Module

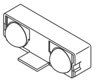

Sharp's opto-wireless transceiver module is compatible with IrDA standard.
Applications: • Cellular phones • PDA • Personal computers

Data Vcc (V)	Transfer Rate SIR (kbps)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R† Pricing 2,000	Sharp Part No.
IrDA 115 Kbit/s, 1 Meter							
2.4 ~ 5.5	9.6 ~ 115.2	425-1914-1-ND	2.86	2.51	2.01	1810.38/M	GP2W0004XP
IrDA 115 Kbit/s, 1 Meter and 4 Mbit/s, 1 Meter							
2.7 ~ 5.5	9.6 ~ 115.2	425-1171-1-ND	4.52	3.96	3.17	—	GP2W1001YP
IrDA 115 Kbit/s, 20cm							
2.0 ~ 3.6	2.4 ~ 115.2	425-1172-1-ND	2.14	1.88	1.50	1354.62/M	GP2W0110YPS
1.7 ~ 2.5	2.4 ~ 115.2	425-1173-1-ND	2.56	2.24	1.80	1620.48/M	GP2W0112YP
2.0 ~ 3.6	2.4 ~ 115.2	425-2058-1-ND◊	2.18	1.91	1.53	1379.94/M	GP2W0114YP0F
2.0 ~ 3.6	2.4 ~ 115.2	425-1915-1-ND	2.00	1.75	1.40	1266.00/M	GP2W0116YPS
2.0 ~ 3.6	2.4 ~ 115.2	425-1916-1-ND	2.00	1.75	1.40	1266.00/M	GP2W0118YPS

† For Tape and Reel part number, change 1-ND to 2-ND.   ◊ ***RoHS Compliant***

U.S. - LASERS, Inc.

Adjustable Focus Laser Diode Modules

Fig. 1 — Adjustable Focus Laser Module 28 AWG

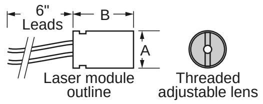

	10.4mm	6.4mm
Po:	5mW	
Class:	IIIa	
Supply Voltage, Up to 9V:	3 Continuous	
Dimension A:	10.44mm	6.4mm
Dimension B:	17.8mm	17.25mm

Fig. 2 — Adjustable Output Laser Module

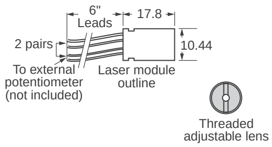

Po = 1 to 4.8mW
Recommended Pot = approx. 150K ~ 500K

Fig. 3 — Visible Laser Diode

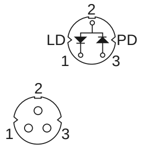

Po: 5mW
Class IIIa

Wide Spectrum Range, Standard Pinout

1. Laser cathode
2. Common case(laser anode)
3. PD anode (standard pinout)

Fig. 4 — 6.4mm Laser Diode Housing Kit

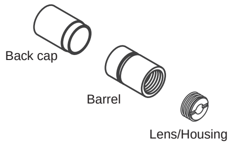

Includes: Backcap, barrel, lens housing and lens

Fig. 5 — 10.4mm Laser Diode Housing Kit

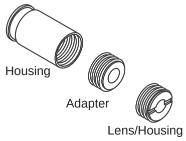

Includes: Housing/Heatsink, 5.6mm to 9mm Adapter, Adjustable Focus Lens

Fig. 6 — APC Laser Power Supply

Adjustable Output Power via On-Board Potentiometer

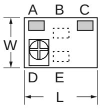

▨ ⬚ Soldering pads
A: Laser diode cathode
B: Laser/pd common (+)
C: Photodiode anode
D: Potentiometer
E: Negative lead (-)

	Dimensions W	L
10.4mm	5.4	7.8
6.4mm	9.0	5.0

Fig.	Description	Wave-length (nm)	Iop (mA)	Size (mm)	Digi-Key Part No.	Price Each	U.S. Laser Part No.
1	Visible Laser Module*	650	25-40	17.8 x 10.44	38-1003-ND	32.66	M6505I
	Visible Laser Module*	635	45-70	17.8 x 10.44	38-1017-ND	76.00	M6355I
1	Infrared Laser Module*	780	45-70	17.8 x 10.44	38-1018-ND	56.00	M7805I
	Infrared Laser Module*	808	60-70	17.8 x 10.44	38-1005-ND	64.00	M8085I
	Infrared Laser Module*	850	45-65	17.8 x 10.44	38-1019-ND	68.00	M8505I
1	Visible Laser Micro Module*	660	12-30	17.25 x 6.4	38-1020-ND	52.00	MM6605I
	Visible Laser Micro Module*	650	25-40	17.25 x 6.4	38-1021-ND	52.00	MM6505I
	Visible Laser Micro Module*	640	55-70	17.25 x 6.4	38-1022-ND	92.00	MM6405I
	Visible Laser Micro Module*	635	45-70	17.25 x 6.4	38-1023-ND	96.00	MM6355I
1	Infrared Laser Micro Module*	780	45-70	17.25 x 6.4	38-1024-ND	76.00	MM7805I
	Infrared Laser Micro Module*	808	60-70	17.25 x 6.4	38-1025-ND	80.00	MM8085I
	Infrared Laser Micro Module*	850	45-65	17.25 x 6.4	38-1026-ND	88.00	MM8505I
2	Adj. Output Visible Laser Module*	650	25-40	17.8 x 10.44	38-1011-ND	56.00	VOL6505I
	Adj. Output Visible Laser Module*	640	55-70	17.8 x 10.44	38-1012-ND	112.00	VOL6405I
	Adj. Output Visible Laser Module*	635	45-70	17.8 x 10.44	38-1013-ND	116.00	VOL6355I
2	Adj. Output Infrared Laser Module*	780	45-70	17.8 x 10.44	38-1014-ND	96.00	VOL7805I
	Adj. Output Infrared Laser Module*	808	60-70	17.8 x 10.44	38-1015-ND	100.00	VOL8085I
	Adj. Output Infrared Laser Module*	850	45-65	17.8 x 10.44	38-1016-ND	108.00	VOL8505I
3	Visible Laser Diode	660	12-20	5.6	38-1006-ND	9.00	D6605I
	Visible Laser Diode	650	25-40	5.6	38-1007-ND	9.00	D6505I
	Visible Laser Diode	635	45-70	5.6	38-1027-ND	30.00	D6355I
3	Infrared Laser Diode	780	45-70	5.6	38-1028-ND	24.00	D7805I
	Infrared Laser Diode	808	60-70	5.6	38-1029-ND	28.00	D8085I
	Infrared Laser Diode	850	45-65	5.6	38-1030-ND	32.00	D8505I
4	Housing Kit, 6.4mm................................			17.25 x 6.4	38-1032-ND	20.00	HK-6.4
5	Housing Kit, 10.4mm			17.8 x 10.44	38-1000-ND	18.00	HK-10.4
6	Laser Driver Circuit (APC) for 10.4mm Housing ...			5.4 x 7.8	38-1009-ND†	14.00	NS102-200K
	Laser Driver Circuit (APC) for 6.4mm Housing			5.0 x 9.0	38-1031-ND†	14.00	NS102A-200K
—	5.6mm to 9mm Adapter, Non-threaded...........................				38-1033-ND	4.00	AD 5.6-9MM
—	5.6mm to 9mm Adapter, Threaded.................................				38-1001-ND	5.00	THAD 5.6-9mm

* Module denotes complete assembly.

† For use with 660, 650, 640 and 635nm diodes only.

SHARP MICROELECTRONICS

Laser Diodes

Fig. 1

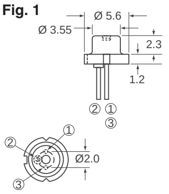

A

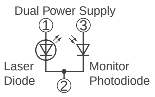

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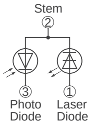

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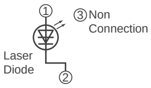

Fig.	Optical Power Output	Oper. Current (Typ.)	Oper. Volt. (Typ.)	Wave-length (Typ.)	Half Intensity Typ.† Parallel	Perpendicular	Oper. Temp. °C	Digi-Key Part No.	Price Each 1	10
1A	7mW	33mA	2.2	654nm	8.5°	29°	-10° ~ 80°	425-1805-ND	13.56	11.63
	10mW	40mA	2.2	654nm	8.5°	29°	-10° ~ 70°	425-1806-ND	14.79	12.68
1B	50mW	80mA	2.8	654nm	8.5°	21°	-5° ~ 70°	425-1807-ND	74.03	63.45
1C	120mW	141mA	2.1	784nm	8.7°	16°	-10° ~ 65°	425-1809-ND	24.76	21.23

† Angle at 50% peak intensity (full-width at half-maximum). Parallel to the junction plane (X-Z plane) Perpendicular to the junction plane (Y-Z plane)

LUMEX An ITW Company

Visible and Infrared Diodes

Fig. 1

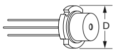

Fig. 2

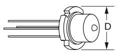

Fig. 3

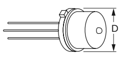

Wave-length λ Typ. (nm)	Output Power (mW) max.	Current (mA) Ith	Iop	Oper. Voltage (V)	Operating Temp. (°C)	Dia. D (mm)	Digi-Key Part No.	Price Each	Lumex Part No.
Visible Laser Diodes — Fig. 1									
650	5	20	35	2.2	-10° ~ 40°	5.60	67-1500-ND	5.37	OED-LDP65001E
650	5	30	40	2.1	-10° ~ 70°	5.60	67-1501-ND	15.00	OED-LD65001E
658	50	40	125	2.5	-10° ~ 40°	5.60	67-1646-ND	136.90	OED-LDH66003E
Infrared Laser Diodes — Fig. 2									
1550	5 (CW)	8	—	1.2	-40° ~ 85°	5.60	67-1504-ND	124.84	OED-LDC15001E

Detection Range λ (nm)	Rise/Fall Time (ns)	Forward Current (mA)	Reverse Voltage (V)	Operating Temp. (°C)	Diameter D (mm)	Digi-Key Part No.	Price Each	Lumex Part No.
Pin Photo Diode — Fig. 3								
1100/1600	0.3	2	25	-40° ~ 85°	5.35	67-1505-ND	35.26	OED-PPD11075G-B

Quarton

Visible Laser Diode Modules

FEATURES: • Built-in driver circuit. Small size • Class IIIa laser product • Operating Temperature: 10°C ~40°C • Storage Temperature Range: -20°C ~ 65°C • Typical Operating Voltage: 3.0V

Fig. 1

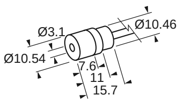

Fig. 2

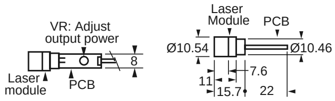

Fig. 3

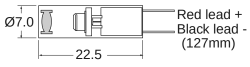

Fig. 4 — Line Generator

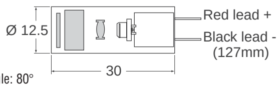

Beam Angle: 80°

Fig.	Emission Wavelength Typ. (nm)	Cw Optical Power (mW)	Operating Current (mA)	Digi-Key Part No.	Price Each 1	10	100
1	655	3±1	50±15	VLM-650-01-LPA-ND	15.88	14.30	13.35
	635	3±1	50±15	VLM-635-01-LPA-ND	32.92	29.63	27.65
2	655	≤5	50±15	VLM-650-02-LPA-ND	16.43	14.79	13.81
	635	≤5	50±15	VLM-635-02-LPA-ND	42.17	37.95	35.42
3	650	≤2.5	40±15	VLM-650-03-LPA-ND	10.68	9.62	8.98
4	650	≤3	30±15	VLM-650-27-LPA-ND	41.07	36.96	34.50

LED 7-Segment Displays

Fig. 1

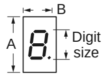

Fig. 2

Only .56” (14.20mm) and .80” (20.32mm) have active decimal points.

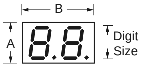

Fig. 3

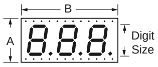

Fig. 4

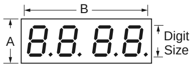

Fig. 5 — Right Angle

Multiplexed

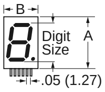

Fig. 6 — Right Angle

Multiplexed. Only .56” (14.20mm) has decimal points.

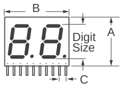

Size	No. of Pins	Dim. C In. (mm)
.56”	10	.10 (2.49)
.30”	9	.05 (1.27)

Through-Hole 7-Segment Displays

Fig.	Emitted Color	Digit Size Inch (mm)	Dimensioins Inch (mm) A x B	VF (V)	If (mA)	Io (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each 1	10	100	Lumex Part No. Common Anode	Lumex Part No. Common Cathode
1	Red/Orange	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.0	10	2500	67-1403-ND	67-1406-ND	1.57	1.43	1.23	LDS-A304RI	LDS-C304RI
	Green	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.2	10	2500	67-1404-ND	67-1407-ND	1.57	1.43	1.23	LDS-A302RI	LDS-C302RI
	Yellow	.30 (7.62)	.75 x .40 (19.05 x 10.16)	2.1	10	2000	67-1405-ND	67-1408-ND	1.57	1.43	1.23	LDS-A303RI	LDS-C303RI
	Super-Red	.30 (7.62)	.75 x .40 (19.05 x 10.16)	1.7	10	8000	67-1413-ND	67-1414-ND	2.31	2.10	1.81	LDS-A306RI	LDS-C306RI
	Red/Orange	.36 (9.14)	.55 x .30 (13.97 x 7.49)	2.0	10	2500	67-1415-ND	67-1417-ND	1.84	1.68	1.45	LDS-A324RI	LDS-C324RI
	Green	.36 (9.14)	.55 x .30 (13.97 x 7.49)	2.2	10	2500	67-1416-ND	67-1418-ND	1.84	1.68	1.45	LDS-A322RI	LDS-C322RI
	Red/Orange	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.0	10	2500	67-1431-ND	67-1434-ND	1.57	1.43	1.23	LDS-A414RI	LDS-C414RI
	Green	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.2	10	2500	67-1432-ND	67-1435-ND	1.57	1.43	1.23	LDS-A412RI	LDS-C412RI
	Yellow	.43 (10.92)	.74 x .50 (18.90 x 12.60)	2.1	10	2000	67-1433-ND	67-1436-ND	1.57	1.43	1.23	LDS-A413RI	LDS-C413RI
	Super-Red	.43 (10.92)	.74 x .50 (18.90 x 12.60)	1.8	10	8000	67-1445-ND	67-1446-ND	2.31	2.10	1.81	LDS-A416RI	LDS-C416RI
	Red/Orange	.50 (12.70)	.75 x .50 (19.00 x 12.70)	2.0	10	2500	67-1451-ND	67-1453-ND	1.84	1.68	1.45	LDS-A504RI	LDS-C504RI
	Green	.50 (12.70)	.75 x .50 (19.00 x 12.70)	2.2	10	2500	67-1452-ND	67-1454-ND	1.84	1.68	1.45	LDS-A502RI	LDS-C502RI
	Red/Orange	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.0	10	2500	67-1463-ND	67-1466-ND	1.57	1.43	1.23	LDS-A514RI	LDS-C514RI
	Green	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.2	10	2500	67-1464-ND	67-1467-ND	1.57	1.43	1.23	LDS-A512RI	LDS-C512RI
	Yellow	.56 (14.22)	.75 x .48 (19.05 x 12.19)	2.1	10	2000	67-1465-ND	67-1468-ND	1.57	1.43	1.23	LDS-A513RI	LDS-C513RI
	Super-Red	.56 (14.22)	.75 x .48 (19.05 x 12.19)	1.7	10	8000	67-1475-ND	67-1476-ND	2.31	2.10	1.81	LDS-A516RI	LDS-C516RI
	Red/Orange	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.0	10	2500	67-1477-ND	67-1480-ND	2.28	2.08	1.79	LDS-A814RI	LDS-C814RI
	Green	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.2	10	2500	67-1478-ND	67-1481-ND	2.28	2.08	1.79	LDS-A812RI	LDS-C812RI
	Yellow	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	2.1	10	2000	67-1479-ND	67-1482-ND	2.28	2.08	1.79	LDS-A813RI	LDS-C813RI
	Super-Red	.80 (20.32)	1.09 x .788 (27.71 x 20.02)	1.7	10	8000	67-1483-ND	67-1484-ND	3.14	2.85	2.46	LDS-A816RI	LDS-C816RI
	Red/Orange	1.0 (25.40)	1.34 x .95 (34.04 x 24.00)	4.0	10	2500	67-1485-ND	67-1487-ND	3.08	2.80	2.41	LDS-AA14RI	LDS-CA14RI
	Green	1.0 (25.40)	1.34 x .95 (34.04 x 24.00)	4.4	10	2500	67-1486-ND	67-1488-ND	3.08	2.80	2.41	LDS-AA12RI	LDS-CA12RI
	Red/Orange	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	8.0	10	2500	67-1489-ND	67-1491-ND	9.46	8.60	7.40	LDS-AD14RI	LDS-CD14RI
	Green	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	8.8	10	2500	67-1490-ND	67-1492-ND	9.46	8.60	7.40	LDS-AD12RI	LDS-CD12RI
	Super-Red	2.25 (57.15)	2.76 x 1.89 (70.10 x 48.01)	6.8	10	8000	67-1493-ND	67-1494-ND	10.84	9.85	8.48	LDS-AD16RI	LDS-CD16RI
2	Red/Orange	.30 (7.62)	.60 x .61 (15.24 x 15.49)	2.0	10	2500	67-1409-ND†	67-1411-ND†	2.50	2.28	1.96	LDD-E304NI	LDD-F304NI
	Green	.30 (7.62)	.60 x .61 (15.24 x 15.49)	2.2	10	2500	67-1410-ND†	67-1412-ND†	2.50	2.28	1.96	LDD-E302NI	LDD-F302NI
	Red	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.0	10	2500	67-1437-ND	67-1438-ND	2.39	2.18	1.88	LDD-A404NI	LDD-C404NI
	Green	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.2	10	2500	67-1419-ND	67-1421-ND	2.39	2.18	1.88	LDD-A402NI	LDD-C402NI
	Yellow	.40 (10.16)	.63 x .80 (16.00 x 20.22)	2.1	10	2000	67-1420-ND	67-1422-ND	2.39	2.18	1.88	LDD-A403NI	LDD-C403NI
	Super-Red	.40 (10.16)	.63 x .80 (16.00 x 20.22)	1.7	10	8000	67-1447-ND	67-1448-ND	3.69	3.35	2.89	LDD-A406NI	LDD-C406NI
	Red/Orange	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.0	10	2500	67-1455-ND	67-1458-ND	2.39	2.18	1.88	LDD-A514RI	LDD-C514RI
	Green	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.2	10	2500	67-1456-ND	67-1459-ND	2.39	2.18	1.88	LDD-A512RI	LDD-C512RI
	Yellow	.56 (14.22)	.75 x .98 (19.05 x 24.89)	2.1	10	2000	67-1457-ND	67-1460-ND	2.39	2.18	1.88	LDD-A513RI	LDD-C513RI
	Super-Red	.56 (14.22)	.75 x .98 (19.05 x 24.89)	1.7	10	8000	67-1461-ND	67-1462-ND	3.69	3.35	2.89	LDD-A516RI	LDD-C516RI
	Red/Orange	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.0	10	2500	67-1469-ND	67-1472-ND	3.99	3.63	3.12	LDD-A814RI	LDD-C814RI
	Green	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.2	10	2500	67-1470-ND	67-1473-ND	3.99	3.63	3.12	LDD-A812RI	LDD-C812RI
	Yellow	.80 (20.32)	1.01 x 1.41 (25.65 x 35.81)	2.1	10	2000	67-1471-ND	67-1474-ND	3.99	3.63	3.12	LDD-A813RI	LDD-C813RI
3	Red/Orange	.56 (14.22)	.75 x 1.48 (19.05 x 37.59)	2.0	10	2500	67-1423-ND	67-1425-ND	5.09	4.63	3.98	LDT-A514RI	LDT-C514RI
	Green	.56 (14.22)	.75 x 1.48 (19.05 x 37.59)	2.2	10	2500	67-1424-ND	67-1426-ND	5.09	4.63	3.98	LDT-A512RI	LDT-C512RI
4	Red/Orange	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.0	10	2500	67-1427-ND†•	—	7.40	6.73	5.79	LDQ-M284RI	—
	Green	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.2	10	2500	67-1428-ND†•	—	7.40	6.73	5.79	LDQ-M282RI	—
	Yellow	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	2.1	10	2000	67-1429-ND†•	—	7.40	6.73	5.79	LDQ-M283RI	—
	Super-Red	.28 (7.11)	.40 x 1.264 (10.11 x 32.11)	1.7	10	8000	67-1430-ND†•	—	14.16	12.88	11.08	LDQ-M286RI	—
	Red/Orange	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.0	10	2500	67-1439-ND†	67-1442-ND†	7.40	6.73	5.79	LDQ-M514RI	LDQ-N514RI
	Green	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.2	10	2500	67-1440-ND†	67-1443-ND†	7.40	6.73	5.79	LDQ-M512RI	LDQ-N512RI
	Yellow	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	2.1	10	2000	67-1441-ND†	67-1444-ND†	7.40	6.73	5.79	LDQ-M513RI	LDQ-N513RI
	Super-Red	.56 (14.22)	.75 x 1.98 (19.00 x 50.29)	1.7	10	8000	67-1449-ND†	67-1450-ND†	7.40	6.73	5.79	LDQ-M516RI	LDQ-N516RI
5	Red	.56 (14.22)	.75 x .49 (19.05 x 12.50)	2.0	10	2500	67-1512-ND†	67-1513-ND†	1.98	1.80	1.55	LDS-M514RI-RA	LDS-N514RI-RA
	Green	.56 (14.22)	.75 x .49 (19.05 x 12.50)	2.2	10	2500	67-1514-ND†	67-1515-ND†	1.98	1.80	1.55	LDS-M512RI-RA	LDS-N512RI-RA
6	Red	.30 (7.62)	.59 x .61 (15.00 x 15.50)	2.0	10	2500	67-1516-ND†‡	67-1517-ND†‡	3.38	3.08	2.65	LDD-E304NI-RA	LDD-F304NI-RA
	Green	.30 (7.62)	.59 x .61 (15.00 x 15.50)	2.2	10	2500	67-1518-ND†‡	67-1519-ND†‡	3.38	3.08	2.65	LDD-E302NI-RA	LDD-F302NI-RA
	Red	.56 (14.20)	.75 x .98 (19.00 x 25.00)	2.0	10	2500	67-1520-ND†	67-1521-ND†	3.33	3.03	2.61	LDD-M514RI-RA	LDD-N514RI-RA
	Green	.56 (14.20)	.75 x .98 (19.00 x 25.00)	2.2	10	2500	67-1522-ND†	67-1523-ND†	3.33	3.03	2.61	LDD-M512RI-RA	LDD-N512RI-RA

† Multiplexed Display • Inactive colon on display ‡ Non standard segment connections

Large Liquid Crystal 7-Segment Displays

Digit Size Inch (mm)	Dim. - Inch (mm) A x B	Driving Method	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
1.36 (34.54)	1.97 x 1.30 (50.00 x 33.00)	Static, 1/2 Bias	67-1506-ND	4.65	3.88	3.10	LCD-S101D14TR
2.21 (56.13)	3.00 x 2.20 (76.20 x 55.88)	Static	67-1507-ND	10.56	8.80	7.04	LCD-S101D22TR
2.99 (76.00)	4.03 x 3.00 (102.40 x 76.20)	Static	67-1508-ND	17.66	14.13	12.37	LCD-S101D30TR
4.00 (101.60)	4.83 x 3.20 (122.56 x 81.28)	Static, 1/2 Bias	67-1509-ND	22.86	18.29	16.01	LCD-S101D40TR

SPECIFICATIONS:

- **Fluid Type:** TN
- **Background Color:** Gray
- **Viewing Direction:** 6:00
- **Display Mode:** Reflective
- **Operating Voltage:** 3.0 ~ 5.0VAC
- **Operating Temperature:** 0°C ~ 50°C
- **Storage Temperature:** -20°C ~ 70°C
- Can be driven with the CD4543BE

Note: 4” display does not have decimal point. Pin count varies with display height.

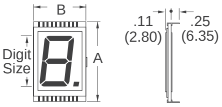

High Brightness LEDs

Fig. 1

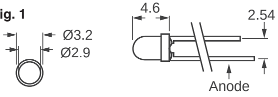

Fig. 2

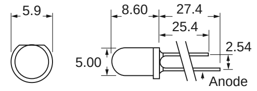

Fig. 3

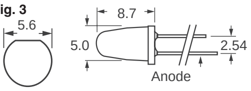

Fig. 4

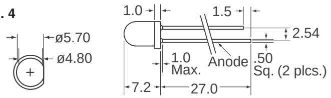

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 1	10	100	500	Lumex Part No.
1	T-1 (3mm)	Sup. Orange	Water Clear	620	2.0	30	1000	30	67-1074-ND	.99	8.25	74.25	330.00	SSL-LX3044SOC
		Sup. Yellow		590	2.1	30	1000	30	67-1076-ND	.86	7.20	64.80	288.00	SSL-LX3044SYC
		Green		502	3.5	25	1100	30	67-1754-ND	2.73	22.75	204.75	910.00	SSL-LX3044UEGC
2	T-1 3/4 (5mm)	Super Red	Water Clear	660	1.7	30	2800	30	67-1612-ND	.54	4.48	40.28	179.00	SSL-LX5093SRC/E
		Super Red		660	1.7	30	1800	30	67-1611-ND	.55	4.60	41.40	184.00	SSL-LX5093SRC/DW
		Super Red		660	1.7	30	1500	30	67-1610-ND	.28	2.33	20.93	93.00	SSL-LX5093SRC/DV
		Sup. Orange		610	2.0	30	2500	30	67-1113-ND	.99	8.25	74.25	330.00	SSL-LX5093SOC
		Sup. Yellow		590	2.1	30	1000	30	67-1115-ND	.71	5.95	53.55	238.00	SSL-LX5093SYC
		Green		502	3.5	25	1500	30	67-1755-ND	2.73	22.75	204.75	910.00	SSL-LX5093UEGC
3	T-1 3/4 (5mm)	Red	Water Clear	660	1.7	30	2500	20	67-1122-ND	.57	4.78	42.98	191.00	SSL-LX5093XRC/4
		Yellow		590	2.1	30	1300	20	67-1123-ND	1.00	8.30	74.70	332.00	SSL-LX5093XYC
4	T-1 3/4 (4.7mm)	Green	Water Clear	502	3.5	25	1000	30	67-1756-ND	2.73	22.75	204.75	910.00	SSL-LX4073UEGC

DSP LEDs Low Voltage LEDs, 1.5V

Operating Temperature:
-40°C ~ 85°C

Fig. 1

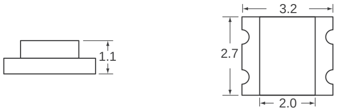

Fig. 2

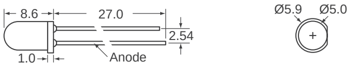

Fig.	Pkg. Type	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (min.)	LED Current (@ 1.5V)	Typ. mcd @ 2V	Viewing Angle 2x Theta	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape and Reel Size	Pricing	Lumex Part No.
1	1210	Super Red	Water Clear	636	1.5V	10	40	140°	67-1867-1-ND	2.14	1.83	1.53	67-1867-2-ND	3,000	1012.60/M	SML-DSP1210SIC-TR
		Orange	Water Clear	620	1.5V	10	40	140°	67-1868-1-ND	2.17	1.86	1.55	67-1868-2-ND	3,000	1029.20/M	SML-DSP1210SOC-TR
		Yellow	Water Clear	590	1.5V	10	30	140°	67-1869-1-ND	2.17	1.86	1.55	67-1869-2-ND	3,000	1029.20/M	SML-DSP1210SYC-TR
		Green	Water Clear	525	1.5V	2.5	40	140°	67-1870-1-ND	3.26	2.79	2.33	67-1870-2-ND	3,000	1543.80/M	SML-DSP1210UPGC-TR
		Blue	Water Clear	470	1.5V	2.5	35	140°	67-1871-1-ND	2.59	2.22	1.85	67-1871-2-ND	3,000	1228.40/M	SML-DSP1210USBC-TR
2	5mm	Red	Water Clear	636	1.5V	10	2500	30°	67-1872-ND	2.04	1.70	1.53	—	—	—	SSL-DSP5093SIC
		Orange	Water Clear	610	1.5V	10	2500	30°	67-1873-ND	2.04	1.70	1.53	—	—	—	SSL-DSP5093SOC
		Yellow	Water Clear	590	1.5V	10	2500	30°	67-1874-ND	2.04	1.70	1.53	—	—	—	SSL-DSP5093SYC
		Green	Water Clear	525	1.5V	2.5	3500	30°	67-1875-ND	3.00	2.50	2.25	—	—	—	SSL-DSP5093UPGC
		Blue	Water Clear	470	1.5V	2.5	2500	30°	67-1876-ND	2.55	2.13	1.92	—	—	—	SSL-DSP5093USBC
		Ultra White	Water Clear	—	1.5V	2.5	3000	30°	67-1877-ND	3.39	2.83	2.55	—	—	—	SSL-DSP5093UWC

White LEDs

Fig. 1

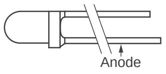

Fig. 2

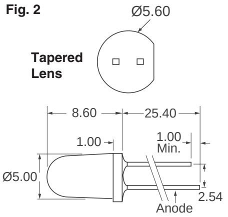

Fig. 3

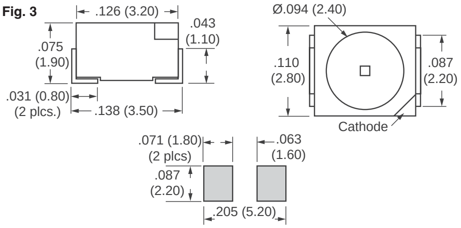

Fig. 4

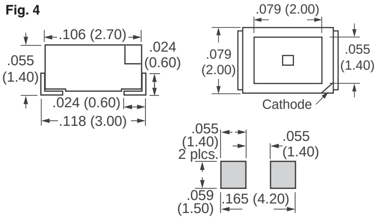

Fig.	Description (mm)	Emitted Color	Lens	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	500	Digi-Key Part No.	Tape and Reel Size	Pricing	Lumex Part No.
1	T-1 (3mm)	White	Water Clear	3.6	30	750	40	67-1606-ND*	3.75	33.75	270.00	1200.00	—	—	—	SSL-LX3054UWC/A
				3.5	30	3,300	30	67-1690-ND*	1.11	9.99	79.92	355.20	—	—	—	SLX-LX3054UWC
				3.6	30	800	30	67-1954-ND*	2.20	19.80	158.40	704.00	—	—	—	SSL-LX3044UWC
				3.6	30	900	20	67-1955-ND*	2.20	19.80	158.40	704.00	—	—	—	SSL-LX3054UWC/B
				3.6	30	1,700	20	67-1956-ND*	2.20	19.80	158.40	704.00	—	—	—	SSL-LX5093UWC/B
1	T-1 3/4 (5mm)	White	Water Clear	3.6	30	740	45	67-1605-ND*	3.75	33.75	270.00	1200.00	—	—	—	SSL-LX5093UWC/A
				3.0	25	3,500	40	67-1691-ND*	.87	7.79	62.28	276.80	—	—	—	SLX-LX5093UWC/C
				3.5	30	7,400	15	67-1692-ND*	.99	8.91	71.28	316.80	—	—	—	SLX-LX5093UWC/D
				3.5	25	8,000	20	67-1693-ND*	1.11	9.99	79.92	355.20	—	—	—	SLX-LX5093UWC/E
				3.5	25	9,000	20	67-1694-ND*	1.38	12.38	99.00	440.00	—	—	—	SLX-LX5093UWC/F
				3.5	25	11,000	20	67-1695-ND*	1.47	13.19	105.48	468.80	—	—	—	SLX-LX5093UWC/G
				3.6	30	680	34	67-1696-ND*	2.22	19.98	159.84	710.40	—	—	—	SLX-LX5093UWW
2	T-1 3/4 (5mm)	White	Water Clear	3.6	30	2,300	15	67-1604-ND*	3.75	33.75	270.00	1200.00	—	—	—	SSL-LX5093XUWC
3	3.2 x 2.8	White	Water Clear	3.5	30	150	120	67-1608-1-ND	3.00	27.75	249.00	—	67-1608-2-ND	1,500	2100.00/M	SML-LX2832UWC-TR
4	2.7 x 2.0	White	Water Clear	3.5	30	150	120	67-1607-1-ND	2.86	26.46	237.38	—	67-1607-2-ND	1,000	2002.00	SML-LX23UWC-TR
—	0603	White	Yellow Diffused	3.5	20	65	140	67-1959-1-ND	1.22	10.13	81.00	374.63	67-1959-2-ND	4,000	672.30/M	SML-LX0603UWD-TR

* Bulk

Blue LEDs

Fig. 1

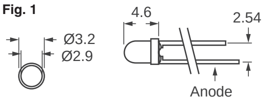

Fig. 2

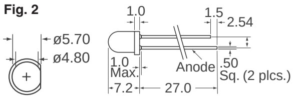

Fig. 3

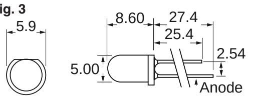

Fig. 4

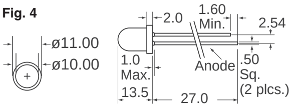

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing 1	10	100	500	Lumex Part No.
1	T-1 (3mm)	Blue	Water Clear	470	3.5	30	1000	30	67-1747-ND	2.23	20.03	160.20	712.00	SSL-LX3044USBC
			Blue Diff.	470	3.5	30	80	60	67-1748-ND	2.23	20.03	160.20	712.00	SSL-LX3044USBD
2	T-1 3/4 (4.7mm)	Blue	Water Clear	470	3.5	30	750	30	67-1749-ND	2.23	20.03	160.20	712.00	SSL-LX4073USBC
3	T-1 3/4 (5mm)	Blue	Water Clear	470	3.5	30	1000	30	67-1750-ND	2.23	20.03	160.20	712.00	SSL-LX5093USBC
			Blue Diff.	470	3.5	30	300	60	67-1751-ND	2.23	20.03	160.20	712.00	SSL-LX5093USBD
4	10mm	Blue	Water Clear	470	3.6	30	800	15	67-1752-ND	3.05	27.45	219.60	976.00	SSL-LX100133USBC
			Blue Diff.	470	3.6	30	300	60	67-1753-ND	3.05	27.45	219.60	976.00	SSL-LX100133USBD

Fig. 1

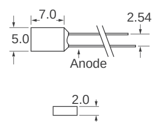

Fig. 2

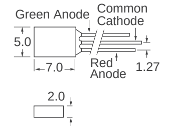

Fig. 3

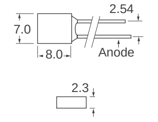

Fig. 4

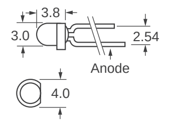

Fig. 5

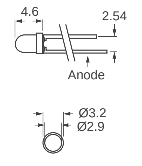

Fig. 6

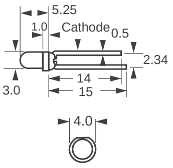

Fig. 7

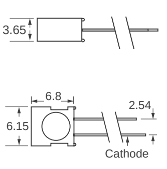

Fig. 8

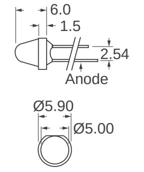

Fig. 9

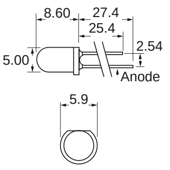

Fig. 10

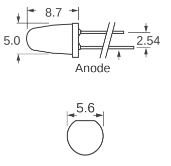

Fig. 11

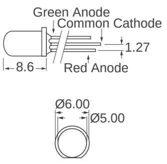

Fig. 12

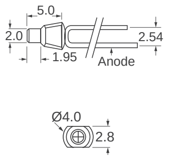

Fig. 13

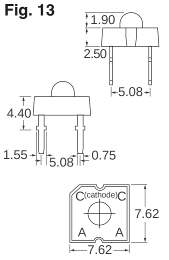

Fig. 14

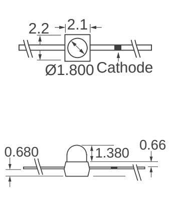

Fig. 15

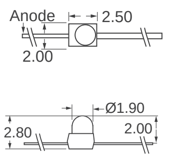

Fig. 16 (RGB)

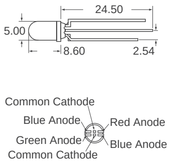

Fig.	Description	Emitted Color	Lens	Wavelength (nm)	Peak Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing			Lumex Part No.
										10	100	500	
1	Rect. (2x5mm)	Sup. Red	Red Diff.	660	1.7	30	80	110	67-1049-ND	1.78	15.98	71.00	SSL-LX2573SRD
		Red	Red Diff.	635	2.0	30	10	110	67-1047-ND	1.10	9.90	44.00	SSL-LX2573ID
		Amber	Amber Diff.	605	2.0	30	5	110	67-1045-ND	1.50	13.50	60.00	SSL-LX2573AD
		Yellow	Yellow Diff.	585	2.1	30	10	110	67-1050-ND	1.18	10.58	47.00	SSL-LX2573YD
		Green	Green Diff.	565	2.2	25	10	110	67-1046-ND	1.03	9.23	41.00	SSL-LX2573GD
		Pure Green	Green Diff.	555	2.1	25	6	110	67-1048-ND	1.50	13.50	60.00	SSL-LX2573PGD
2	Rect. (2x5mm)	Red/Green	White Diff.	635/565	2.0/2.2	30/25	10	90	67-1051-ND	4.05	36.45	162.00	SSL-LX2577IGW
3	Rect. (2.3x7mm)	Sup. Red	Red Diff.	660	1.8	30	50	110	67-1054-ND	2.20	19.80	88.00	SSL-LX25783SRD
		Red	Red Diff.	635	2.0	30	9	80	67-1053-ND	1.18	10.58	47.00	SSL-LX25783ID
		Yellow	Yellow Diff.	585	2.1	30	4	110	67-1055-ND	1.18	10.58	47.00	SSL-LX25783YD
		Green	Green Diff.	565	2.2	25	9	110	67-1052-ND	1.18	10.58	47.00	SSL-LX25783GD
4	T-1 (3mm)	Yellow	Yellow Diff.	585	2.1	30	10	60	67-1057-ND	1.63	14.63	65.00	SSL-LX3034YD
		Green	Green Diff.	565	2.2	25	10	60	67-1056-ND	1.50	13.50	60.00	SSL-LX3034GD
5	T-1 (3mm)	Red	Red Diff.	635	12.0	12	6	60	67-1067-ND	2.63	23.63	105.00	SSL-LX3044ID-12V
		Yellow	Yellow Diff.	585	12.0	12	6	60	67-1079-ND	2.63	23.63	105.00	SSL-LX3044YD-12V
		Green	Green Diff.	565	12.0	12	6	60	67-1061-ND	2.63	23.63	105.00	SSL-LX3044GD-12V
		Red	Red Diff.	635	5.0	12	6	60	67-1068-ND	3.30	29.70	132.00	SSL-LX3044ID-5V
		Yellow	Yellow Diff.	585	5.0	12	6	60	67-1080-ND	3.30	29.70	132.00	SSL-LX3044YD-5V
		Green	Green Diff.	565	5.0	12	6	60	67-1062-ND	3.30	29.70	132.00	SSL-LX3044GD-5V
		Dark Red	Red Diff.	700	2.0	25	6	60	67-1064-ND	.98	8.78	39.00	SSL-LX3044HD
		Sup. Red	Water Clear	660	1.8	30	600	30	67-1647-ND	2.78	24.98	111.00	SSL-LX3044SRC/D
		Red	Water Clear	635	2.1	30	125	30	67-1065-ND	1.23	11.03	49.00	SSL-LX3044IC
		Red	Red Diff.	635	2.0	30	30	60	67-1066-ND	1.38	12.38	55.00	SSL-LX3044ID
		Red	Red Trans.	635	2.0	30	30	30	67-1069-ND	1.23	11.03	49.00	SSL-LX3044IT
		Amber	Amber Diff.	605	2.1	30	15	60	67-1058-ND	1.23	11.03	49.00	SSL-LX3044AD
		Yellow	Water Clear	585	2.1	30	90	30	67-1077-ND	1.28	11.48	51.00	SSL-LX3044YC
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1078-ND	1.18	10.58	47.00	SSL-LX3044YD
		Yellow	Yellow Trans.	585	2.1	30	90	30	67-1081-ND	1.73	15.53	69.00	SSL-LX3044YT
		Green	Water Clear	565	2.2	25	100	30	67-1059-ND	1.20	10.80	48.00	SSL-LX3044GC
		Green	Green Diff.	565	2.2	25	40	60	67-1060-ND	1.10	9.90	44.00	SSL-LX3044GD
		Green	Green Trans.	565	2.2	25	40	30	67-1063-ND	1.20	10.80	48.00	SSL-LX3044GT
		Pure Green	Green Diff.	555	2.2	25	20	60	67-1073-ND	1.35	12.15	54.00	SSL-LX3044PGD
		Red	Red Diff.	635	2.0	30	30	60	67-1071-ND*	1.15	10.35	46.00	SSL-LX3044LID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1072-ND*	1.13	10.13	45.00	SSL-LX3044LYD
		Green	Green Diff.	565	2.2	25	30	60	67-1070-ND*	1.05	9.45	42.00	SSL-LX3044LGD
6	T-1 (3mm)	Red	Red Diff.	635	2.1	30	30	60	67-1402-ND	1.48	13.28	59.00	SSL-LX3052ID
		Yellow	Yellow Diff.	585	2.1	30	15	80	67-1397-ND	1.50	13.50	60.00	SSL-LX3052YD
		Green	Green Diff.	565	2.2	25	15	80	67-1396-ND	1.50	13.50	60.00	SSL-LX3052GD
7	Rect. (4x7mm)	Red	Red Diff.	635	2.0	30	12	100	67-1083-ND	2.58	23.18	103.00	SSL-LX4673ID-LA20
		Yellow	Yellow Diff.	585	2.1	30	6	100	67-1084-ND	2.58	23.18	103.00	SSL-LX4673YD-LA20
		Green	Green Diff.	565	2.2	25	6	100	67-1082-ND	2.58	23.18	103.00	SSL-LX4673GD-LA20
8	T-1 3/4 (5mm)	Red	Red Diff.	700	2.0	25	5	60	67-1088-ND	1.13	10.13	45.00	SSL-LX5063HD
		Red	Water Clear	635	2.0	30	160	30	67-1089-ND	1.50	13.50	60.00	SSL-LX5063IC
		Red	Red Diff.	635	2.0	30	40	60	67-1090-ND	1.28	11.48	51.00	SSL-LX5063ID
		Red	Red Trans.	635	2.0	30	160	30	67-1091-ND	1.43	12.83	57.00	SSL-LX5063IT
		Yellow	Water Clear	585	2.1	30	100	30	67-1093-ND	1.80	16.20	72.00	SSL-LX5063YC
		Yellow	Yellow Diff.	585	2.1	30	20	60	67-1094-ND	1.43	12.83	57.00	SSL-LX5063YD
		Yellow	Yellow Trans.	585	2.1	30	100	30	67-1095-ND	1.45	13.05	58.00	SSL-LX5063YT
		Green	Water Clear	565	2.2	25	100	30	67-1085-ND	1.95	17.55	78.00	SSL-LX5063GC
		Green	Green Diff.	565	2.2	25	30	60	67-1086-ND	1.20	10.80	48.00	SSL-LX5063GD
		Green	Green Trans.	565	2.0	25	100	30	67-1087-ND	1.28	11.48	51.00	SSL-LX5063GT
		Green	Green Trans.	565	2.2	25	100	30	67-1092-ND*	1.95	17.55	78.00	SSL-LX5063LGT
9	T-1 3/4 (5mm)	Green	Green Diff.	565	12.0	12	20	60	67-1099-ND	3.30	29.70	132.00	SSL-LX5093GD-12V
		Red	Red Diff.	700	5.0	12	3	60	67-1103-ND	2.63	23.63	105.00	SSL-LX5093HD-5V
		Red	Red Diff.	635	5.0	12	20	60	67-1106-ND	2.63	23.63	105.00	SSL-LX5093ID-5V
		Green	Green Diff.	565	5.0	12	20	60	67-1100-ND	2.63	23.63	105.00	SSL-LX5093GD-5V
		Red	Red Diff.	700	2.0	25	5	60	67-1102-ND	.98	8.78	39.00	SSL-LX5093HD
		Red	Red Trans.	700	2.0	25	25	30	67-1104-ND	1.30	11.70	52.00	SSL-LX5093HT
		Sup. Red	Red Diff.	660	1.7	30	250	60	67-1648-ND	1.58	14.18	63.00	SSL-LX5093SRD/D
		Red	Red Diff.	635	2.0	30	40	60	67-1105-ND	1.05	9.45	42.00	SSL-LX5093ID
		Red	Red Trans.	635	2.0	30	80	30	67-1107-ND	1.23	11.03	49.00	SSL-LX5093IT
		Amber	Amber Diff.	605	2.0	30	30	60	67-1097-ND	1.23	11.03	49.00	SSL-LX5093AD
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1116-ND	1.13	10.13	45.00	SSL-LX5093YD
		Yellow	Yellow Trans.	585	2.1	30	40	30	67-1117-ND	1.25	11.25	50.00	SSL-LX5093YT
		Green	Green Diff.	565	2.2	25	30	60	67-1098-ND	1.03	9.23	41.00	SSL-LX5093GD
		Green	Green Trans.	565	2.2	25	50	30	67-1101-ND	1.20	10.80	48.00	SSL-LX5093GT
		Pure Green	Green Diff.	555	2.2	25	15	60	67-1112-ND	1.20	10.80	48.00	SSL-LX5093PGD
		Red	Red Diff.	635	2.0	30	40	60	67-1110-ND*	1.15	10.35	46.00	SSL-LX5093LID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1111-ND*	1.15	10.35	46.00	SSL-LX5093LYD
		Green	Green Diff.	565	2.2	25	30	60	67-1108-ND*	1.08	9.68	43.00	SSL-LX5093LGD
		Green	Green Trans.	565	2.2	25	80	30	67-1109-ND*	1.23	11.03	49.00	SSL-LX5093LGT
10	T-1 3/4 (5mm)	Red	Water Clear	635	2.0	30	600	20	67-1120-ND	1.50	13.50	60.00	SSL-LX5093XIC
		Amber	Water Clear	610	2.0	30	600	20	67-1118-ND	2.45	22.05	98.00	SSL-LX5093XAC
		Green	Water Clear	565	2.2	25	250	20	67-1119-ND	1.65	14.85	66.00	SSL-LX5093XGC
		Green	Water Clear	555	2.2	25	45	20	67-1121-ND	2.48	22.28	99.00	SSL-LX5093XPGC
11	T-1 3/4 (5mm)	Red/Green	White Diff.	635/565	2.1	30/25	20	60	67-1124-ND	3.70	33.30	148.00	SSL-LX5097IGW
12	T-3/4 (2mm)	Red	Red Diff.	635	2.0	30	25	70	67-1125-ND	1.48	13.28	59.00	SSL-LX20465ID
		Yellow	Yellow Diff.	585	2.1	30	10	70	67-1126-ND	1.50	13.50	60.00	SSL-LX20465YD
		Green	Green Diff.	565	2.2	25	10	70	67-1127-ND	1.35	12.15	54.00	SSL-LX20465GD
13	Sq. T-1 (3mm)	Sup. Yellow	Water Clear	590	2.25	70	800	50	67-1128-ND	6.78	60.98	271.00	SSL-LX30448SYC
14	Axial (1.8mm)	Red	Red Diff.	635	5.0	30	8	60	67-1131-ND	5.20	46.80	208.00	SSL-LXA227ID-5V
		Yellow	Yellow Diff.	585	5.0	20	8	60	67-1132-ND	5.20	46.80	208.00	SSL-LXA227YD-5V
		Green	Green Diff.	565	5.0	30	8	60	67-1130-ND	5.20	46.80	208.00	SSL-LXA227GD-5V
15	Axial (1.9mm)	Red	Water Clear	660	1.7	25	600	25	67-1137-ND*	3.43	30.83	137.00	SSL-LXA228SRC
		Red	Red Diff.	660	1.7	25	150	50	67-1138-ND*	3.85	34.65	154.00	SSL-LXA228SRD
		Red	Water Clear	635	2.0	30	30	25	67-1134-ND	2.45	22.05	98.00	SSL-LXA228IC
		Red	Red Diff.	635	2.0	30	25	50	67-1135-ND	2.25	20.25	90.00	SSL-LXA228ID
		Sup. Yellow	Water Clear	585	2.0	30	300	25	67-1139-ND	10.55	94.95	422.00	SSL-LXA228SYC
		Yellow	Water Clear	585	2.1	30	30	25	67-1140-ND	2.55	22.95	102.00	SSL-LXA228YC
		Green	Water Clear	565	2.2	25	50	25	67-1136-ND	2.93	26.33	117.00	SSL-LXA228SGC
		Green	Green Diff.	565	2.2	25	12	25	67-1133-ND	2.25	20.25	90.00	SSL-LXA228GD
16	T-1 3/4 (5mm)	Red/Green Blue	Water Clear	636/574 470	1.9/2.1 3.65	30	600/450 150	30	67-1829-ND	60.50	544.50	2420.00	SSL-LX5099SIUBSUGB

* Low Current Version Lights at (2mA)

PC Mount LEDs

Fig. 1

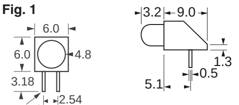

• Lens height for part no.'s 67-1308/09/10/11/12/13-ND = 4.70mm not 3.2mm

Fig. 2

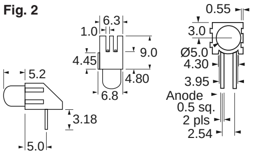

Fig. 3

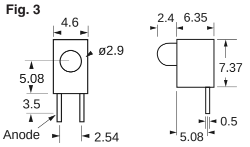

Fig. 4

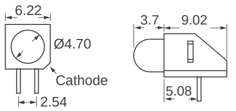

Fig. 5

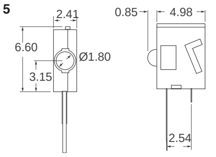

Fig. 6

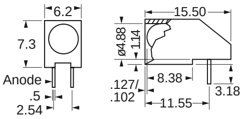

Fig. 7

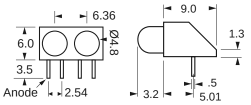

Fig. 8

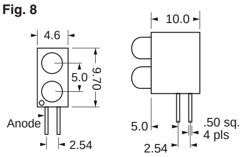

Fig. 9

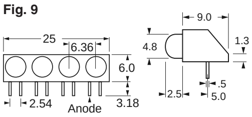

* Lens height for part # 67-1322-ND = 4.75mm not 3.2mm

Fig. 10

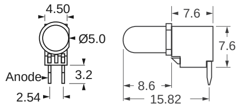

Fig.	Description	Emitted Color	Lens	Peak Wavelength (n.m)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
1	5mm	Red/Green	White Diff.	700/565	2.0/2.2	25	6/20	60	67-1221-ND	.72	.60	.48	SSF-LXH100HGW
		Red	Red Diff.	635	5.0	12	30	60	67-1222-ND	.72	.60	.48	SSF-LXH100ID-5V
		Green	Green Diff.	565	5.0	12	10	60	67-1223-ND	.72	.60	.48	SSF-LXH100GD-5V
		Red	Red Diff.	700	2.0	25	6	60	67-1308-ND	.48	.40	.32	SSF-LXH100HD-01
		Red	Red Diff.	660	1.7	30	60	60	67-1225-ND	.72	.60	.48	SSF-LXH100SRD
		Red	Red Diff.	635	2.0	30	40	60	67-1309-ND	.84	.70	.56	SSF-LXH100ID-01
		Red	Red Diff.	635	2.0	30	40	60	67-1217-ND	.45	.38	.30	SSF-LXH100ID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1311-ND	.84	.70	.56	SSF-LXH100YD-01
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1224-ND	.45	.38	.30	SSF-LXH100YD
		Green	Green Diff.	565	2.2	25	30	60	67-1310-ND	.84	.70	.56	SSF-LXH100GD-01
		Green	Green Diff.	565	2.2	25	30	60	67-1218-ND	.45	.38	.30	SSF-LXH100GD
		Red	Red Diff.	635	2.0	30	40	60	67-1312-ND†	.84	.70	.56	SSF-LXH100LID-01
		Red	Red Diff.	635	2.0	30	40	60	67-1219-ND†	.57	.48	.38	SSF-LXH100LID
		Green	Green Diff.	565	2.2	25	30	60	67-1313-ND†	.84	.70	.56	SSF-LXH100LGD-01
		Green	Green Diff.	565	2.2	25	30	60	67-1220-ND†	.57	.48	.38	SSF-LXH100LGD
2	5mm	Red/Green	White Diff.	700/565	2.0/2.2	30	6/20	60	67-1226-ND	.72	.60	.48	SSF-LXH100MHGW
		Red	Red Diff.	635	5.0	12	20	60	67-1233-ND	.72	.60	.48	SSF-LXH100MID-5V
		Green	Green Diff.	565	5.0	30	20	60	67-1234-ND	.72	.60	.48	SSF-LXH100MGD-5V
		Red	Red Diff.	660	1.8	30	100	60	67-1230-ND	.72	.60	.48	SSF-LXH100MSRD
		Red	Red Diff.	635	2.0	30	30	60	67-1227-ND	.45	.38	.30	SSF-LXH100MID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1229-ND	.45	.38	.30	SSF-LXH100MYD
		Green	Green Diff.	565	2.2	25	30	60	67-1228-ND	.45	.38	.30	SSF-LXH100MGD
		Red	Red Diff.	635	2.0	30	30	60	67-1231-ND†	.57	.48	.38	SSF-LXH100MLID
		Green	Green Diff.	565	2.2	25	30	60	67-1232-ND†	.57	.48	.38	SSF-LXH100MLGD
3	3mm	Red	Red Diff.	635	5.0	12	9	60	67-1241-ND	.66	.55	.44	SSF-LXH103ID-5V
		Green	Green Diff.	565	5.0	12	8	60	67-1242-ND	.66	.55	.44	SSF-LXH103GD-5V
		Red	Red Diff.	660	1.8	30	80	60	67-1238-ND	.54	.45	.36	SSF-LXH103SRD
		Red	Red Diff.	635	2.0	30	30	60	67-1235-ND	.39	.33	.26	SSF-LXH103ID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1237-ND	.39	.33	.26	SSF-LXH103YD
		Green	Green Diff.	565	2.1	30	30	60	67-1236-ND	.39	.33	.26	SSF-LXH103GD
		Red	Red Diff.	635	2.0	30	40	60	67-1239-ND†	.54	.45	.36	SSF-LXH103LID
		Green	Green Diff.	565	2.1	25	30	60	67-1240-ND†	.54	.45	.36	SSF-LXH103LGD
4	4.7mm	Red	Red Diff.	700	5.0	12	3	60	67-1038-ND	.95	.79	.64	SSF-LXH104HD-5V
		Red	Red Diff.	635	2.0	30	40	60	67-1039-ND	.32	.27	.22	SSF-LXH104ID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1040-ND	.32	.27	.22	SSF-LXH104YD
		Green	Green Diff.	565	2.2	25	30	60	67-1037-ND	.32	.27	.22	SSF-LXH104GD
5	1.8mm	Red	Red Diff.	635	2.0	30	8	60	67-1042-ND	.72	.61	.49	SSF-LXH555ID
		Yellow	Yellow Diff.	585	2.1	30	8	60	67-1043-ND	.72	.61	.49	SSF-LXH555YD
		Green	Green Diff.	565	2.1	25	8	60	67-1041-ND	.72	.61	.49	SSF-LXH555GD
6	5mm	Red/Green	White Diff.	700/565	2.1	30	5/8	60	67-1243-ND	.81	.68	.54	SSF-LXH1071HGW
		Red	Red Diff.	660	1.7	30	40	60	67-1247-ND	.72	.60	.48	SSF-LXH1071SRD
		Red	Red Diff.	635	2.1	30	40	60	67-1244-ND	.54	.45	.36	SSF-LXH1071ID
		Yellow	Yellow Diff.	585	2.1	30	20	60	67-1246-ND	.54	.45	.36	SSF-LXH1071YD
		Green	Green Diff.	565	2.1	30	20	60	67-1245-ND	.54	.45	.36	SSF-LXH1071GD
		Green	Green Diff.	565	2.1	30	20	60	67-1249-ND†	.66	.55	.44	SSF-LXH1071LGD
		Red	Red Diff.	635	2.1	30	40	60	67-1248-ND†	.66	.55	.44	SSF-LXH1071LID
7	5mm	Red	Red Diff.	660	1.8	30	100	60	67-1253-ND	1.08	.90	.72	SSF-LXH2100SRD
		Red	Red Diff.	635	2.0	30	40	60	67-1250-ND	.90	.75	.60	SSF-LXH2100ID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1252-ND	.90	.75	.60	SSF-LXH2100YD
		Green	Green Diff.	565	2.2	25	30	60	67-1251-ND	.90	.75	.60	SSF-LXH2100GD
8	3mm	Red	Red Diff.	635	5.0	12	20	60	67-1260-ND	1.35	1.13	.90	SSF-LXH2103IID-5V/4
		Green	Green Diff.	565	5.0	12	20	60	67-1261-ND	1.35	1.13	.90	SSF-LXH2103GGD-5V/4
		Sup. Red	Red Diff.	660	1.7	30	130	60	67-1257-ND	1.56	1.30	1.04	SSF-LXH2103SRSRD/4
		Red	Red Diff.	635	2.0	30	40	60	67-1254-ND	.99	.83	.66	SSF-LXH2103IID/4
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1256-ND	.99	.83	.66	SSF-LXH2103YYD/4
		Green	Green Diff.	565	2.2	25	30	60	67-1255-ND	.99	.83	.66	SSF-LXH2103GGD/4
		Red	Red Diff.	635	2.0	30	40	60	67-1258-ND†	1.20	1.00	.80	SSF-LXH2103LIID/4
		Green	Green Diff.	565	2.2	25	30	60	67-1259-ND†	1.20	1.00	.80	SSF-LXH2103LGGD/4
9	5mm	Red/Green	White Diff.	700/565	2.1	25	4	60	67-1289-ND	2.34	1.95	1.56	SSF-LXH400HGW
		Red	Red Diff.	635	5.0	12	8	60	67-1290-ND	2.34	1.95	1.56	SSF-LXH400ID-5V
		Green	Green Diff.	565	5.0	12	20	60	67-1291-ND	2.34	1.95	1.56	SSF-LXH400GD-5V
		Red	Red Diff.	660	1.7	30	100	60	67-1288-ND	2.34	1.95	1.56	SSF-LXH400SRD
		Red	Red Diff.	635	2.0	30	20	60	67-1285-ND	1.26	1.05	.84	SSF-LXH400ID
		Yellow	Yellow Diff.	585	2.1	30	20	60	67-1287-ND	1.26	1.05	.84	SSF-LXH400YD
		Green	Green Diff.	565	2.1	25	20	60	67-1322-ND	2.22	1.85	1.48	SSF-LXH400GD-01
		Green	Green Diff.	565	2.1	25	20	60	67-1286-ND	1.26	1.05	.84	SSF-LXH400GD
10	5mm	Red/Green	White Diff.	700/565	2.1	25	6	60	67-1292-ND	1.38	1.15	.92	SSF-LXH4RA5HGW
		Red (blinking)	Red Diff.	635	3.5	70	20	60	67-1301-ND	2.64	2.20	1.76	SSF-LXH4RA5BID
		Red	Red Diff.	635	5.0	12	30	60	67-1299-ND	1.38	1.15	.92	SSF-LXH4RA5ID-5V
		Green	Green Diff.	565	5.0	12	15	60	67-1300-ND	1.38	1.15	.92	SSF-LXH4RA5GD-5V
		Red	Red Diff.	660	1.7	30	80	60	67-1296-ND	1.38	1.15	.92	SSF-LXH4RA5SRD
		Red	Red Diff.	635	2.1	30	40	60	67-1293-ND	.96	.80	.64	SSF-LXH4RA5ID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1295-ND	.96	.80	.64	SSF-LXH4RA5YD
		Green	Green Diff.	565	2.1	25	30	60	67-1294-ND	.96	.80	.64	SSF-LXH4RA5GD
		Red	Red Diff.	635	2.1	30	40	60	67-1297-ND†	.96	.80	.64	SSF-LXH4RA5LID
		Green	Green Diff.	565	2.1	25	30	60	67-1298-ND†	.96	.80	.64	SSF-LXH4RA5LGD
11	3mm	Red/Green	White Diff.	700/565	2.1	25	3/4	60	67-1302-ND	1.38	1.15	.92	SSF-LXH4RAHGW
		Red (blinking)	Red Diff.	635	3.5	20	6	60	67-1307-ND	2.64	2.20	1.76	SSF-LXH4RABID
		Red	Red Diff.	660	1.7	30	80	60	67-1306-ND	1.38	1.15	.92	SSF-LXH4RASRD
		Red	Red Diff.	635	2.1	30	40	60	67-1303-ND	.96	.80	.64	SSF-LXH4RAID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1305-ND	.96	.80	.64	SSF-LXH4RAYD
		Green	Green Diff.	565	2.1	25	30	60	67-1304-ND	.96	.80	.64	SSF-LXH4RAGD

† Low Current Version, Lights at (2mA)

(Continued)

Fig. 11

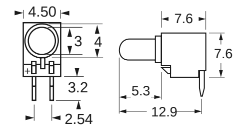

Fig. 12

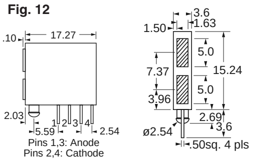

Fig. 13

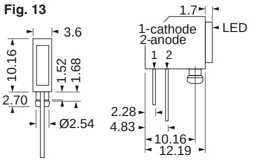

Fig. 14

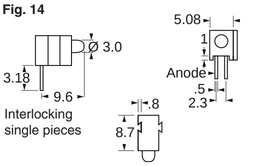

Fig. 15

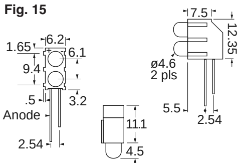

Fig. 16

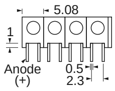

Fig. 17

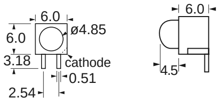

Fig. 18

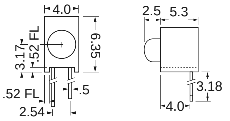

Fig. 19

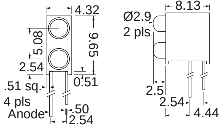

Fig. 20

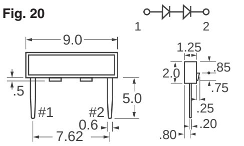

Fig.	Description	Emitted Color	Lens	Peak Wavelength (n.m)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
12	5.0x1.63mm	Red	Red Diff.	660	1.7	30	80	110	67-1265-ND	1.56	1.30	1.04	SSF-LXH22573SRSRD
		Red	Red Diff.	635	2.0	30	10	110	67-1262-ND	1.14	.95	.76	SSF-LXH22573IID
		Yellow	Yellow Diff.	585	2.1	30	10	110	67-1264-ND	1.14	.95	.76	SSF-LXH22573YYD
		Green	Green Diff.	565	2.2	25	10	110	67-1263-ND	1.14	.95	.76	SSF-LXH22573GGD
		Red	Red Diff.	635	2.0	30	10	110	67-1266-ND†	1.44	1.20	.96	SSF-LXH22573LIID
		Green	Green Diff.	565	2.2	25	10	110	67-1267-ND†	1.44	1.20	.96	SSF-LXH22573LGGD
13	2.5x7mm	Red/Green	White Diff.	695/565	2.0/2.2	25	2/9	110	67-1268-ND	.93	.78	.62	SSF-LXH25780HGW
		Red	Red Diff.	660	1.7	30	50	110	67-1272-ND	.93	.78	.62	SSF-LXH25780SRD
		Red	Red Diff.	635	2.0	30	15	110	67-1269-ND	.63	.53	.42	SSF-LXH25780ID
		Yellow	Yellow Diff.	585	2.1	30	9	110	67-1271-ND	.63	.53	.42	SSF-LXH25780YD
		Green	Green Diff.	565	2.2	25	9	110	67-1270-ND	.63	.53	.42	SSF-LXH25780GD
14	3mm	Sup. Red	Red Diff.	660	1.8	30	100	60	67-1276-ND	.78	.65	.52	SSF-LXH2300SRD-LM
		Red	Red Diff.	635	5.0	12	30	60	67-1279-ND	.78	.65	.52	SSF-LXH2300ID-5V-LM
		Green	Green Diff.	565	5.0	12	30	60	67-1280-ND	.78	.65	.52	SSF-LXH2300GD-5V-LM
		Red	Red Diff.	635	2.0	30	50	60	67-1273-ND	.54	.45	.36	SSF-LXH2300ID-LM
		Yellow	Yellow Diff.	585	2.1	30	50	60	67-1275-ND	.54	.45	.36	SSF-LXH2300YD-LM
		Green	Green Diff.	565	2.2	25	50	60	67-1274-ND	.54	.45	.36	SSF-LXH2300GD-LM
		Red	Red Diff.	635	2.0	25	50	60	67-1277-ND†	.72	.60	.48	SSF-LXH2300LID-LM
		Green	Green Diff.	565	2.2	25	50	60	67-1278-ND†	.72	.60	.48	SSF-LXH2300LGD-LM
15	5mm	Red/Green	White Diff.	635/565	2.0/2.2	30/25	30/25	60	67-1281-ND	1.62	1.35	1.08	SSF-LXHM250IGIGW
		Red	Red Diff.	635	2.0	30	40	60	67-1282-ND	.96	.80	.64	SSF-LXHM250IID
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1284-ND	.96	.80	.64	SSF-LXH250MYYD
		Green	Green Diff.	565	2.2	25	30	60	67-1283-ND	.96	.80	.64	SSF-LXHM250GGD
16	3mm	Red	Red Diff.	635	2.0	30	40	60	67-1315-ND	2.04	1.70	1.36	SSF-LXH2300/4ID
17	5mm	Red	Red Diff.	635	2.0	30	40	60	67-1317-ND	.84	.70	.56	SSF-LXH101ID-01
		Green	Green Diff.	565	2.2	25	30	60	67-1318-ND	.84	.70	.56	SSF-LXH101GD-01
18	3mm	Red	Red Diff.	635	2.1	30	40	60	67-1320-ND	.84	.70	.56	SSF-LXH303ID
19	3mm	Red	Red Diff.	635	2.0	30	40	60	67-1319-ND	1.20	1.00	.80	SSF-LXH240IID
		Green	Green Diff.	565	2.2	25	40	60	67-1321-ND	1.20	1.00	.80	SSF-LXH240GGD
20	9.0x2.0mm	Red	Red Trans.	660	3.6	30	50	160	67-1326-ND	1.08	.90	.72	SSB-LX02SRC
		Red	Red Trans.	635	4.5	30	16	160	67-1323-ND	.87	.73	.58	SSB-LX02IC
		Yellow	Yellow Trans.	590	4.5	30	10	160	67-1325-ND	.87	.73	.58	SSB-LX02YC
		Green	Green Trans.	565	4.4	25	10	160	67-1324-ND	.87	.73	.58	SSB-LX02GC

† Low Current Version, Lights at (2mA)

Light Pipes

Fig.	Recommended LED Series	No. of Positions	Dim. - Inch (mm) H	L	Digi-Key Part No.	Price Each 1	10	25	100	Lumex Part No.
1	SML-LX2832	—	—	—	67-1844-ND	1.92	1.66	1.56	1.13	LPB-R0112051S
2					67-1845-ND	2.01	1.73	1.63	1.18	LPB-S01110101S
3	SML-LX1206 SML-LX1210	—	—	—	67-1847-ND	.83	.72	.67	.49	LPF-C011304S
4	SML-LX23	—	—	—	67-1850-ND	.78	.68	.64	.46	LPF-C012303S
5					67-1851-ND	1.31	1.13	1.06	.77	LPF-C013301S
6					67-1852-ND	1.39	1.21	1.14	.82	LPF-C014301S
7	SML-LX1206 or SML-LX1210	2	—	.540 (13.72)	67-1853-ND	1.66	1.43	1.35	.98	LPF-C021303S
		3	—	.740 (18.80)	67-1854-ND	2.49	2.15	2.02	1.46	LPF-C031303S
		4	—	.939 (23.84)	67-1855-ND	3.31	2.86	2.69	1.95	LPF-C041303S
		5	—	1.139 (28.92)	67-1856-ND	4.15	3.58	3.37	2.44	LPF-C051303S
8		—	—	—	67-1857-ND	4.26	3.68	3.46	2.50	LPF-C071303S
9	SML-LX0805xx	—	.394 (10)	—	67-1833-ND	1.13	.98	.92	.67	LPA-C011301S-10
		—	.787 (20)	—	67-1834-ND	1.13	.98	.92	.67	LPA-C011301S-20
		—	1.97 (50)	—	67-1835-ND	1.13	.98	.92	.67	LPA-C011301S-50
10	SML-LX0805xx	4	.394 (10)	1.000 (25.40)	67-1836-ND	3.16	2.73	2.57	1.86	LPA-C041301S-10
			.787 (20)		67-1837-ND	2.88	2.48	2.34	1.69	LPA-C041301S-20
			1.97 (50)		67-1838-ND	4.87	4.20	3.95	2.86	LPA-C041301S-50
		8	.394 (10)	1.800 (45.72)	67-1839-ND	5.95	5.13	4.82	3.49	LPA-C081301S-10
			.787 (20)		67-1840-ND	4.70	4.05	3.81	2.76	LPA-C081301S-20
			1.97 (50)		67-1841-ND	4.70	4.05	3.81	2.76	LPA-C081301S-50
11	SML-LX1206xx	—	—	—	67-1846-ND	.70	.61	.57	.41	LPF-C011302S
12	SML-LX23	—	—	—	67-1849-ND	1.18	1.02	.96	.70	LPF-C012301S
13	SML-LX1206xx	—	—	—	67-1858-ND	.70	.61	.57	.41	LPF-R011362S
14	SML-LX0603xx	25	—	—	67-1859-ND	7.34	6.33	5.95	4.31	LPF-R251321S
15	SML-LX1210xx	—	—	—	67-1860-ND	.27	.24	.22	.16	LPF-S014331S

Fig. 1

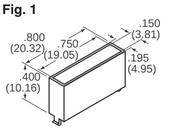

Fig. 2

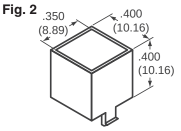

Fig. 3

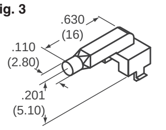

Fig. 4

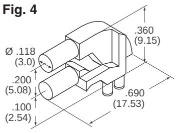

Fig. 5

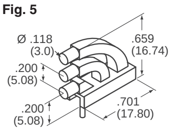

Fig. 6

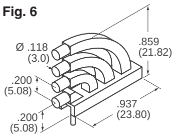

Fig. 7

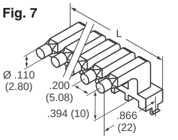

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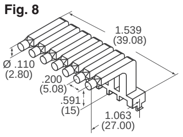

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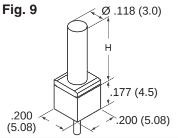

Fig. 10

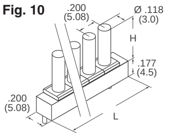

Fig. 11

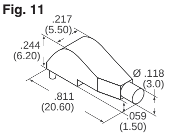

Fig. 12

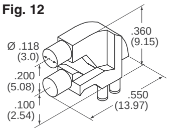

Fig. 13

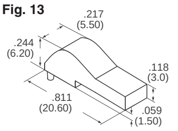

Fig. 14

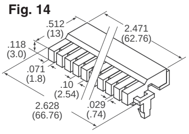

Fig. 15

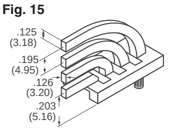

Flexible Light Pipes

Recommended LED: SSL-LX3054XX

Lens Color	Digi-Key Part No.	Price Each 1	10	25	100	Lumex Part No.
Blue	67-1861-ND	2.78	2.40	2.26	1.64	LPI-C0117001S-150B
Clear	67-1862-ND	2.78	2.40	2.26	1.64	LPI-C0117001S-150C
Green	67-1863-ND	2.78	2.40	2.26	1.64	LPI-C0117001S-150G
Red	67-1864-ND	2.78	2.40	2.26	1.64	LPI-C0117001S-150R
Yellow	67-1865-ND	2.78	2.40	2.26	1.64	LPI-C0117001S-150Y

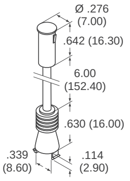

Surface Mount LEDs

Dim in mm

Fig. 1 — SOT-23

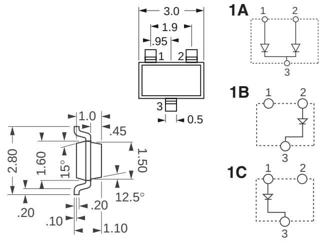

Fig. 2 — SOT-23 Footprint

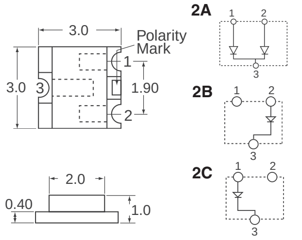

Fig. 3 — 0402

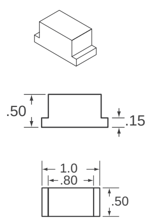

Fig. 4 — 0603

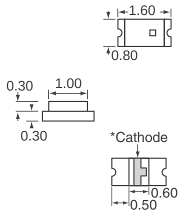

* Anode mark on 67-1551-1-ND

Fig. 5 — 0805

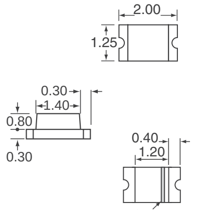

* Anode mark on 67-1555-1-ND

Fig. 6 — 4PLCC

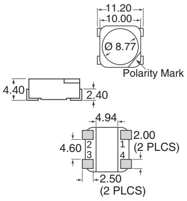

Fig. 7 — 1206

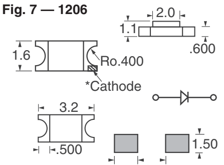

*Anode mark on 67-1359-1-ND 67-1004-1-ND

Fig. 8 — 1209

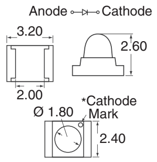

*Anode mark on 67-2021-ND

Fig. 9 — 1210

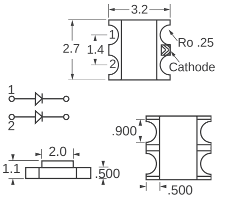

Fig. 10

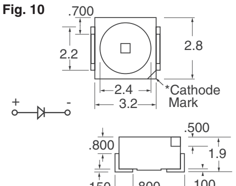

* Anode mark on 67-1366-ND

Fig. 11

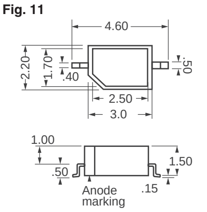

Fig. 12

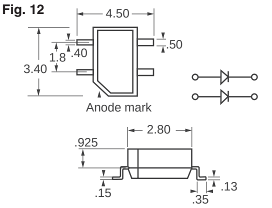

Fig. 13

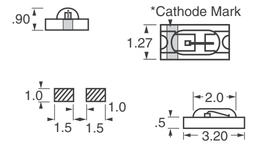

*Anode mark on 67-1355-ND

Fig. 14

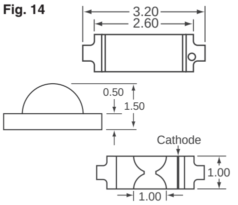

Fig. 15

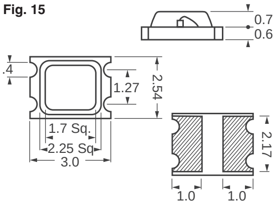

Fig. 16

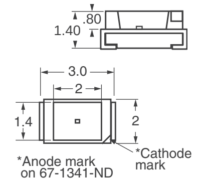

Fig. 17

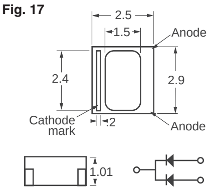

Fig. 18 — Gull Wing

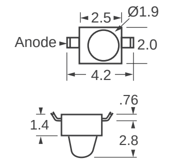

Fig. 19 — Yoke Shaped

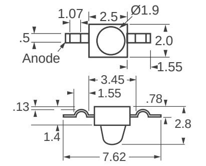

Fig. 20 — Z Bend

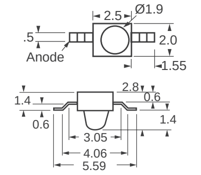

Fig. 21

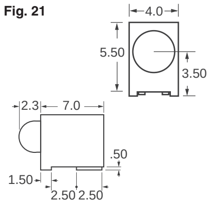

Fig. 22

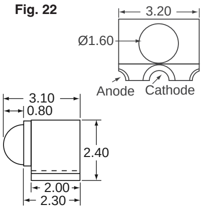

Fig. 23 — Interlocking, Re-Lampable

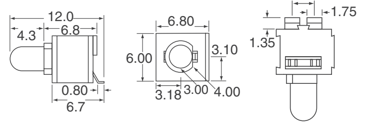

Fig. 24 — Interlocking, Re-Lampable

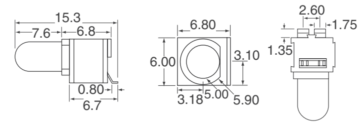

Fig. 25

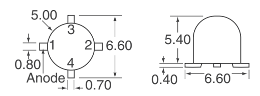

Fig. 26

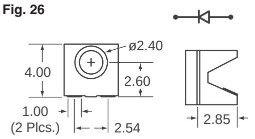

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Lumex Part No.
1A	SOT-23	Red/Red	Water Clear	635	2.0	30	10	140	67-1334-1-ND	.96	.84	.72	—	—	—	SSL-LX15IIC-RP-TR
		Yellow/Yellow		585	2.1	30	10	140	67-1337-1-ND	.96	.84	.72	67-1337-2-ND	3,000	398.00/M	SSL-LX15YYC-RP-TR
		Green/Green		565	2.2	25	10	140	67-1336-1-ND	.96	.84	.72	67-1336-2-ND	3,000	398.00/M	SSL-LX15GGC-RP-TR
1B	SOT-23	Red	Water Clear	635	2.0	30	10	140	67-1381-1-ND	.64	.56	.48	67-1381-2-ND	3,000	265.60/M	SSL-LX15IC-TR
		Yellow		585	2.1	30	10	140	67-1383-1-ND	.64	.56	.48	67-1383-2-ND	3,000	265.60/M	SSL-LX15YC-TR
		Green		565	2.1	25	10	140	67-1382-1-ND	.64	.56	.48	67-1382-2-ND	3,000	265.60/M	SSL-LX15GC-TR
1C	SOT-23	Red	Water Clear	635	2.0	30	10	140	67-1378-1-ND	.64	.56	.48	—	—	—	SSL-LX15IC-RP-TR
		Yellow		585	2.1	30	10	140	67-1380-1-ND	.64	.56	.48	67-1380-2-ND	3,000	265.60/M	SSL-LX15YC-RP-TR
		Green		565	2.2	25	10	140	67-1379-1-ND	.64	.56	.48	67-1379-2-ND	3,000	265.60/M	SSL-LX15GC-RP-TR
2A	SOT-23	Red/Green	Water Clear	635/565	2.0/2.1	30/25	10	140	67-1655-1-ND	.83	.73	.63	67-1655-2-ND	3,000	343.62/M	SML-LX15IGC-RP-TR
		Yellow/Green		585/565	2.1/2.2	30/25	10	140	67-1674-1-ND	.83	.73	.63	67-1674-2-ND	3,000	343.62/M	SML-LX15YGC-RP-TR
2B	SOT-23	Super Red	Water Clear	660	1.7	30	20	140	67-1660-1-ND	.56	.50	.43	67-1660-2-ND	3,000	234.06/M	SML-LX15SRC-TR
		Red		635	2.0	30	10	140	67-1684-1-ND	.52	.46	.40	67-1684-2-ND	3,000	217.63/M	SML-LX15IC-TR
		Super Yellow		590	2.1	30	60	140	67-1664-1-ND	.58	.51	.44	67-1664-2-ND	3,000	240.70/M	SML-LX15SYC-TR
		Yellow		585	2.1	30	10	140	67-1670-1-ND	.52	.46	.40	67-1670-2-ND	3,000	212.00/M	SML-LX15YC-TR
		Super Ultra Green		574	2.2	25	45	140	67-1662-1-ND	.58	.51	.44	67-1662-2-ND	3,000	240.70/M	SML-LX15SUGC-TR
		Green		565	2.2	25	10	140	67-1685-1-ND	.52	.46	.40	67-1685-2-ND	3,000	217.46/M	SML-LX15GC-TR
		Ultra Pure Green		525	3.5	30	45	140	67-1666-1-ND	3.13	2.75	2.35	—	—	—	SML-LX15UPGC-TR
		Ultra Super Blue		470	3.5	30	120	140	67-1668-1-ND	3.13	2.75	2.35	67-1668-2-ND	3,000	1299.78/M	SML-LX15USBC-TR
2C	SOT-23	Super Red	Water Clear	660	1.7	30	20	140	67-1661-1-ND	.56	.50	.43	67-1661-2-ND	3,000	234.00/M	SML-LX15SRC-RP-TR
		Super Yellow		590	2.1	30	60	140	67-1665-1-ND	.58	.51	.44	—	—	—	SML-LX15SYC-RP-TR
		Yellow		585	2.1	30	10	140	67-1671-1-ND	.52	.46	.40	—	—	—	SML-LX15YC-RP-TR
		Super Ultra Green		574	2.2	25	45	140	67-1663-1-ND	.58	.51	.44	—	—	—	SML-LX15SUGC-RP-TR
		Green		565	2.2	25	10	140	67-1656-1-ND	.52	.46	.40	67-1656-2-ND	3,000	217.46/M	SML-LX15GC-RP-TR
		Ultra Pure Green		525	3.5	30	45	140	67-1667-1-ND	3.13	2.75	2.35	—	—	—	SML-LX15UPGC-RP-TR
		Ultra Super Blue		470	3.5	30	120	140	67-1669-1-ND	3.13	2.75	2.35	67-1669-2-ND	3,000	1299.78/M	SML-LX15USBC-RP-TR
		Super Red		660	1.8	30	45	140	67-1551-1-ND	.15	.13	.10	67-1551-2-ND	4,000	83.00/M	SML-LX0603SRW-TR

* Low current version, lights at 2mA † Bulk Pricing ‡ Reverse Polarity

(Continued)

Surface Mount LEDs *(Cont.)*

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Lumex Part No.
										1	10	100		Size	Pricing	
4	0603	Red	White Diff.	635	2.0	30	14	160	67-1548-1-ND	.15	.13	.10	67-1548-2-ND	4,000	83.00/M	SML-LX0603IW-TR
		Yellow		585	2.1	30	14	160	67-1550-1-ND	.15	.13	.10	67-1550-2-ND	4,000	83.00/M	SML-LX0603YW-TR
		Green		565	2.2	25	18	160	67-1549-1-ND	.14	.12	.09	67-1549-2-ND	4,000	74.70/M	SML-LX0603GW-TR
5	0805	Super Red	White Diff.	660	1.8	30	21	140	67-1555-1-ND	.15	.13	.10	67-1555-2-ND	4,000	83.00/M	SML-LXT0805SRW-TR
		Red	White Diff.	635	2.0	30	11	140	67-1552-1-ND	.14	.12	.10	67-1552-2-ND	4,000	78.02/M	SML-LXT0805IW-TR
		Yellow	White Diff.	585	2.1	30	10	140	67-1554-1-ND	.14	.12	.10	67-1554-2-ND	4,000	78.02/M	SML-LXT0805YW-TR
		Super Ultra Green	Water Clear	574	2.2	30	40	140	67-1687-1-ND	2.49	2.08	1.67	67-1687-2-ND	3,000	373.50/M	SML-LX0805SUGC-TR
		Green	White Diff.	565	2.0	30	11	140	67-1553-1-ND	.14	.12	.09	67-1553-2-ND	4,000	74.70/M	SML-LXT0805GW-TR
6	4 PLCC SMT	Super Orange	Water Clear	620	2.0	500	25000	90	67-2010-1-ND	7.81	6.84	5.86	67-2010-2-ND	500	1620.00	SML-LX1110SOC-ATR
		Super Orange		620	2.0	500	20000	120	67-2011-1-ND	7.81	6.84	5.86	67-2011-2-ND	500	1620.00	SML-LX1110SOC-BTR
		Super Yellow		590	2.0	500	19000	90	67-2012-1-ND	7.81	6.84	5.86	67-2012-2-ND	500	1620.00	SML-LX1110SYC-ATR
		Super Yellow		590	2.0	500	8500	120	67-2013-1-ND	7.81	6.84	5.86	67-2013-2-ND	500	1620.00	SML-LX1110SYC-BTR
		Ultra Pure Green		525	3.5	500	10000	90	67-2014-1-ND	32.32	28.28	24.24	67-2014-2-ND	500	6706.50	SML-LX1110UPGC-ATR
		Ultra Super Green		525	3.5	500	7500	120	67-2015-1-ND	32.32	28.28	24.24	67-2015-2-ND	500	6706.50	SML-LX1110UPGC-BTR
		Ultra Super Blue		470	3.5	500	2800	90	67-2016-1-ND	27.70	24.24	20.78	67-2016-2-ND	500	5747.00	SML-LX1110USBC-ATR
		Ultra Super Blue		470	3.5	500	250	120	67-2017-1-ND	27.70	24.24	20.78	67-2017-2-ND	500	5747.00	SML-LX1110USBC-BTR
		Ultra White		—	3.5	500	15000	90	67-2024-1-ND ***NEW!***	27.68	24.22	20.76	67-2024-2-ND ***NEW!***	500	5743.50	SML-LX1110UWC-ATR
		Ultra White		—	3.5	500	12000	120	67-2025-1-ND ***NEW!***	27.68	24.22	20.76	67-2025-2-ND ***NEW!***	500	5743.50	SML-LX1110UWC-BTR
7	1206	Super Red	Water Clear	660	1.7	30	25	160	67-1359-1-ND	.18	.17	.14	67-1359-2-ND	3,000	76.36/M	SML-LX1206SRC-TR
		Super Red	White Diff.	660	1.8	30	15	160	67-1004-1-ND	.29	.26	.22	67-1004-2-ND	3,000	119.52/M	SML-LX1206SRW-TR
		Red	Water Clear	635	2.0	25	6	160	67-1356-1-ND	.18	.16	.14	67-1356-2-ND	3,000	74.70/M	SML-LX1206IC-TR
		Red	White Diff.	635	2.0	25	6	160	67-1003-1-ND	.28	.25	.22	67-1003-2-ND	3,000	117.86/M	SML-LX1206IW-TR
		Yellow	Water Clear	585	2.1	25	6	160	67-1358-1-ND	.18	.16	.14	67-1358-2-ND	3,000	74.70/M	SML-LX1206YC-TR
		Green	Water Clear	565	2.2	25	10	160	67-1357-1-ND	.16	.14	.12	67-1357-2-ND	3,000	66.40/M	SML-LX1206GC-TR
		Green	White Diff.	565	2.2	25	10	160	67-1002-1-ND	.27	.24	.21	67-1002-2-ND	3,000	112.88/M	SML-LX1206GW-TR
8	1209 3.2 x 2.4mm SMT	Super Intensity Red	Water Clear	636	2.0	160	600	50	67-2020-1-ND	.32	.28	.24	67-2020-2-ND	1,000	133.00	SML-LXL1209SIC-TR
		Orange		610	2.0	160	1500	50	67-2021-1-ND	.32	.28	.24	67-2021-2-ND	1,000	133.00	SML-LXL1209SOC-TR
		Super Yellow		590	2.0	160	400	50	67-2022-1-ND	.32	.28	.24	67-2022-2-ND	1,000	133.00	SML-LXL1209SYC-TR
		Super Ultra Green		574	2.2	160	170	50	67-2018-1-ND	.42	.38	.32	67-2018-2-ND	1,000	176.00	SML-LXL1209SUGC-TR
		Ultra Pure Green		525	3.5	100	1000	50	67-2019-1-ND	2.13	1.87	1.60	67-2019-2-ND	1,000	883.00	SML-LXL1209UPGC-TR
		Ultra Super Blue		470	3.5	100	250	50	67-2023-1-ND	2.13	1.87	1.60	67-2023-2-ND	1,000	883.00	SML-LXL1209USBC-TR
9	1210	Sup. Red/Sup. Red	Water Clear	660	1.7	30	15	160	67-1360-1-ND	.64	.56	.48	67-1360-2-ND	3,000	265.60/M	SML-LX1210SRSRC-TR
		Red/Green		635/565	2.0/2.2	25	10	160	67-1361-1-ND	.34	.30	.26	67-1361-2-ND	3,000	141.10/M	SML-LX1210IGC-TR
		Yellow/Green		585/565	2.1/2.2	25	10	160	67-1363-1-ND	.34	.30	.26	67-1363-2-ND	3,000	141.10/M	SML-LX1210YGC-TR
		Green/Green		565/565	2.2	25	10	160	67-1362-1-ND	.34	.30	.26	67-1362-2-ND	3,000	141.10/M	SML-LX1210GGC-TR
10	3.2 x 2.8mm	Super Red	Water Clear	660	1.7	30	100	120	67-1366-1-ND	.80	.70	.60	67-1366-2-ND	2,000	332.00/M	SML-LX2832SRC-TR
		Red		635	2.0	30	25	120	67-1364-1-ND	.64	.56	.48	67-1364-2-ND	2,000	265.60/M	SML-LX2832IC-TR
		Yellow		585	2.1	30	15	120	67-1367-1-ND	.64	.56	.48	67-1367-2-ND	2,000	265.60/M	SML-LX2832YC-TR
		Green		565	2.1	25	25	120	67-1365-1-ND	.64	.56	.48	67-1365-2-ND	2,000	265.60/M	SML-LX2832GC-TR
11	3.0 x 2.2mm	Super Red	Water Clear	650	1.7	25	30	130	67-1371-1-ND‡	.80	.70	.60	67-1371-2-ND‡	2,000	332.00/M	SSL-LXA1725SRC-TR
		Red		635	2.0	30	12	130	67-1368-1-ND	.60	.53	.45	67-1368-2-ND	2,000	249.00/M	SSL-LXA1725IC-TR
		Yellow		585	2.1	30	12	130	67-1370-1-ND	.60	.53	.45	67-1370-2-ND	2,000	249.00/M	SSL-LXA1725YC-TR
		Green		565	2.2	25	25	130	67-1369-1-ND	.60	.53	.45	67-1369-2-ND	2,000	249.00/M	SSL-LXA1725GC-TR
12	3.4 x 2.8mm	Red/Green	Water Clear	635/565	2.0/2.2	30/25	12/20	130	67-1372-1-ND	1.08	.95	.81	67-1372-2-ND	1,000	448.20	SSL-LXA3025IGC-TR
		Yellow/Green		585/565	2.1/2.2	30/25	12	130	67-1373-1-ND	1.08	.95	.81	67-1373-2-ND	1,000	448.20	SSL-LXA3025YGC-TR
13	1.27 x 3.2mm	Super Red	Red Trans.	660	1.8	30	8	180	67-1355-1-ND	1.52	1.33	1.14	67-1355-2-ND	3,000	608.00/M	CCL-LX45SRT
		Red	Red Trans.	635	2.1	30	7.2	180	67-1352-1-ND	1.41	1.24	1.06	67-1352-2-ND	3,000	564.80/M	CCL-LX45IT
		Yellow	Yellow Trans.	585	2.3	30	7	180	67-1354-1-ND	1.46	1.28	1.10	67-1354-2-ND	3,000	584.00/M	CCL-LX45YT
		Green	Green Trans.	565	2.2	30	7	180	67-1353-1-ND	1.46	1.28	1.10	67-1353-2-ND	3,000	584.00/M	CCL-LX45GT
14	3.2 x 1.0mm	Super Red	Water Clear	660	1.7	30	30	130	67-1559-1-ND‡	.26	.22	.17	67-1559-2-ND‡	3,000	141.10/M	SML-LXR85SRC-TR
		Red		635	2.0	25	12	130	67-1556-1-ND	.26	.22	.17	67-1556-2-ND	3,000	141.10/M	SML-LXR85IC-TR
		Yellow		585	2.1	25	10	130	67-1558-1-ND	.24	.20	.16	67-1558-2-ND	3,000	131.14/M	SML-LXR85YC-TR
		Green		565	2.2	25	12	130	67-1557-1-ND	.23	.19	.16	67-1557-2-ND	3,000	126.16/M	SML-LXR85GC-TR
15	3.0 x 2.54mm	Super Red	Water Clear	660	1.7	15	40	180	67-1345-1-ND	1.04	.91	.78	67-1345-2-ND	3,000	431.60/M	CCL-CRS10SR
		Red		635	2.0	25	12	180	67-1342-1-ND	.70	.62	.53	67-1342-2-ND	3,000	290.50/M	CCL-CRS10R
		Yellow		585	2.1	30	8	180	67-1344-1-ND	.70	.62	.53	67-1344-2-ND	3,000	290.50/M	CCL-CRS10Y
		Green		565	2.2	25	12	180	67-1343-1-ND	.70	.62	.53	67-1343-2-ND	3,000	290.50/M	CCL-CRS10G
16	3.0 x 2.0mm	Super Red	Water Clear	660	1.7	30	100	90	67-1341-1-ND	.48	.42	.36	67-1341-2-ND	2,000	199.20/M	SML-LX23SRC-TR
		Red		635	2.0	30	20	90	67-1338-1-ND	.36	.32	.27	67-1338-2-ND	2,000	149.40/M	SML-LX23IC-TR
		Yellow		585	2.1	30	20	90	67-1340-1-ND	.36	.32	.27	67-1340-2-ND	2,000	149.40/M	SML-LX23YC-TR
		Green		565	2.1	25	20	90	67-1339-1-ND	.36	.32	.27	67-1339-2-ND	2,000	149.40/M	SML-LX23GC-TR
17	2.5 x 2.9mm	Sup. Red/Sup. Red	Water Clear	660	1.7	30	40	90	67-1349-1-ND	1.48	1.30	1.11	67-1349-2-ND	2,000	614.20/M	CCL-LX253SRSRC
		Yellow/Green		585/565	2.1	30/25	20	90	67-1351-1-ND	.96	.84	.72	67-1351-2-ND	2,000	398.40/M	CCL-LX253YGC
		Green/Green		565	2.0	25	20	90	67-1350-1-ND	.96	.84	.72	67-1350-2-ND	2,000	398.40/M	CCL-LX253GGC
18	2.0 x 2.5mm	Super Red	Water Clear	660	1.7	25	600	25	67-1393-1-ND‡	.78	.69	.59	67-1393-2-ND‡	1,000	323.70	SSL-LXA228SRC-TR11
		Red	Water Clear	635	2.0	30	80	25	67-1384-1-ND	.47	.42	.36	67-1384-2-ND	1,000	195.88	SSL-LXA228IC-TR11
		Yellow	Yellow Diff.	585	2.1	30	15	50	67-1145-1-ND	.48	.42	.36	67-1145-2-ND	1,000	197.54	SSL-LXA228YD-TR11
		Yellow	Water Clear	585	2.1	30	30	25	67-1386-1-ND	.47	.42	.36	67-1386-2-ND	1,000	195.88	SSL-LXA228YC-TR11
		Green	Green Diff.	565	2.1	25	4	50	67-1141-1-ND	.48	.42	.36	67-1141-2-ND	1,000	197.54	SSL-LXA228GD-TR11
		Green	Water Clear	565	2.2	25	30	25	67-1385-1-ND	.47	.42	.36	67-1385-2-ND	1,000	195.88	SSL-LXA228GC-TR11
19	2.0 x 2.5mm	Super Red	Water Clear	660	1.7	25	600	25	67-1394-1-ND‡	.78	.69	.59	67-1394-2-ND‡	1,000	323.70	SSL-LXA228SRC-TR21
		Red	Red Diff.	635	2.0	30	12	50	67-1143-1-ND	.50	.44	.38	67-1143-2-ND	1,000	207.50	SSL-LXA228ID-TR21
		Red	Red Diff.	635	2.0	30	12	50	67-1144-1-ND*	.52	.46	.39	67-1144-2-ND*	1,000	215.80	SSL-LXA228LID-TR21
		Red	Water Clear	635	2.0	30	60	25	67-1387-1-ND	.47	.42	.36	67-1387-2-ND	1,000	195.88	SSL-LXA228IC-TR21
		Yellow	Yellow Diff.	585	2.0	20	12	50	67-1146-1-ND	.48	.42	.36	67-1146-2-ND	1,000	197.54	SSL-LXA228YD-TR21
		Yellow	Water Clear	585	2.0	20	30	25	67-1389-1-ND	.47	.42	.36	67-1389-2-ND	1,000	195.88	SSL-LXA228YC-TR21
		Green	Green Diff.	565	2.1	30	4	50	67-1142-1-ND	.50	.44	.38	67-1142-2-ND	1,000	207.50	SSL-LXA228GD-TR21
		Green	Water Clear	565	2.1	30	30	25	67-1388-1-ND	.47	.42	.36	67-1388-2-ND	1,000	195.88	SSL-LXA228GC-TR21
20	2.0 x 2.5mm	Super Red	Water Clear	690	1.7	25	600	25	67-1395-1-ND‡	.78	.69	.59	67-1395-2-ND‡	1,000	323.70	SSL-LXA228SRC-TR31
		Red		635	2.0	30	60	25	67-1390-1-ND	.47	.42	.36	67-1390-2-ND	1,000	195.88	SSL-LXA228IC-TR31
		Yellow		585	2.0	20	30	25	67-1392-1-ND	.47	.42	.36	67-1392-2-ND	1,000	195.88	SSL-LXA228YC-TR31
		Green		565	2.1	30	30	25	67-1391-1-ND	.47	.42	.36	67-1391-2-ND	1,000	195.88	SSL-LXA228GC-TR31
21	T-1 (3mm) SMT RA	Super Red	Red Diff.	660	1.7	30	80	60	67-1377-1-ND	1.00	.88	.75	67-1377-2-ND	1,000	415.00	SSF-LXH305SRD-TR
		Red	Red Diff.	635	2.0	30	40	60	67-1374-1-ND	.76	.67	.57	67-1374-2-ND	1,000	315.40	SSF-LXH305ID-TR
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1376-1-ND	.76	.67	.57	67-1376-2-ND	1,000	315.40	SSF-LXH305YD-TR
		Green	Green Diff.	565	2.2	25	30	60	67-1375-1-ND	.76	.67	.57	67-1375-2-ND	1,000	315.40	SSF-LXH305GD-TR
22	SMT RA	Super Red	Water Clear	636	2.0	30	60	110	67-1634-1-ND	.51	.45	.39	67-1634-2-ND	500	105.41	SMF-2432SIC-TR
		Super Yellow		590	2.1	30	170	110	67-1630-1-ND	.51	.45	.39	67-1630-2-ND	500	106.24	SMF-2432SYC-TR
		Yellow		585	2.0	30	14	110	67-1632-1-ND	.35	.31	.27	67-1632-2-ND	500	72.21	SMF-2432YC-TR
		Green		565	2.2	25	14	110	67-1631-1-ND	.34	.31	.26	67-1631-2-ND	500	71.38	SMF-2432GC-TR
		Ultra Green		525	3.5	30	160	110	67-1635-1-ND	6.40	5.60	4.80	67-1635-2-ND	500	1328.00	SMF-2432UPGC-TR
		Super Blue		470	3.5	30	140	110	67-1832-1-ND	3.32	2.91	2.49	67-1832-2-ND	500	688.90	SMF-2432USBC-TR
23	T-1 (3mm) SMT RA	Super Red	Red Diff.	660	1.7	30	80	60	67-1644-ND†	.80	.71	.61	—	—	—	SMF-HM1530SRD-305
		Red	Red Diff.	635	2.0	30	30	60	67-1641-ND†	.70	.62	.53	—	—	—	SMF-HM1530ID-305
		Yellow	Yellow Diff.	585	2.1	30	30	60	67-1642-ND†	.70	.62	.53	—	—	—	SMF-HM1530YD-305
		Green	Green Diff.	565	2.2	25	30	60	67-1643-ND†	.70	.62	.53	—	—	—	SMF-HM1530GD-305
24	T-1 3/4 (5mm) SMT RA	Super Red	Red Diff.	660	1.7	30	100	60	67-1622-ND†	.80	.71	.61	—	—	—	SMF-HM1530SRD-509
		Red	Red Diff.	635	2.0	25	30	60	67-1645-ND†	.70	.62	.53	—	—	—	SMF-HM1530ID-509
		Yellow	Yellow Diff.	585	2.1	25	30	60	67-1620-ND†	.70	.62	.53	—	—	—	SMF-HM1530YD-509
		Green	Green Diff.	565	2.2	25	30	60	67-1621-ND†	.70	.62	.53	—	—	—	SMF-HM1530GD-509
25	5mm	Super Red	Water Clear	660	1.7	30	400	30	67-1623-1-ND‡	.72	.63	.54	67-1623-2-ND‡	500	148.57	SML-LXL505SRC-TR
		Super Int. Red		636	2.0	30	1200	30	67-1625-1-ND	.72	.63	.54	67-1625-2-ND	500	148.57	SML-LXL505SIC-TR

* Low current version, lights at 2mA † Bulk Pricing ‡ Reverse Polarity

(Continued)

Surface Mount LEDs *(Cont.)*

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Lumex Part No.
										1	10	100		Size	Pricing	
25	5mm	Super Orange	Water Clear	610	2.0	30	1500	30	67-1626-1-ND	.72	.63	.54	67-1626-2-ND	500	148.57	SML-LXL505SOC-TR
		Super Yellow		590	2.1	30	1200	30	67-1624-1-ND	.72	.63	.54	67-1624-2-ND	500	148.57	SML-LXL505SYC-TR
		Super Ultra Green		574	2.2	25	100	30	67-1686-1-ND	.48	.42	.36	67-1686-2-ND	500	99.60	SML-LXL505SUGC-TR
		Ultra Green		525	3.5	25	500	30	67-1628-1-ND	3.85	3.38	2.89	67-1628-2-ND	500	799.29	SML-LXL505UPGC-TR
		Ultra Super Blue		470	3.5	30	800	30	67-1629-1-ND	3.52	3.09	2.65	67-1629-2-ND	500	731.23	SML-LXL505USBC-TR
26	3.6 x 4.0mm SMT RA	Super Red	Water Clear	660	1.7	30	80	90	67-1827-1-ND‡	.68	.60	.52	67-1827-2-ND‡	500	141.93	SML-LXR44SRC-TR
		Red		635	2.0	30	25	90	67-1826-1-ND	.53	.47	.40	67-1826-2-ND	500	110.39	SML-LXR44IC-TR
		Yellow		585	2.1	30	9	90	67-1828-1-ND	.53	.47	.40	67-1828-2-ND	500	110.39	SML-LXR44YC-TR
		Green		565	2.2	25	25	90	67-1825-1-ND	.53	.47	.40	67-1825-2-ND	500	110.39	SML-LXR44GC-TR

* Low current version, lights at 2mA † Bulk Pricing ‡ Reverse Polarity

InGan Surface Mount LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Lumex Part No.
										1	10	100		Size	Pricing	
7	1206	Ultra White	Yellow Diff	550	3.5	30	90	140	67-1866-1-ND	3.14	2.75	2.36	67-1866-2-ND	3,000	1303.10/M	SML-LX1206UWW-TR
		Ultra Super Blue	Water Clear	470	3.5	25	25	140	67-1701-1-ND	2.46	2.15	1.85	67-1701-2-ND	3,000	1019.24/M	SML-LX1206USBC-TR
10	2832	Ultra Super Blue	Water Clear	470	3.5	30	60	120	67-1709-1-ND	2.46	2.15	1.85	67-1709-2-ND	2,000	1019.24/M	SML-LX2832USBC-TR
14	0.5 x 3.2mm	Blue	Water Clear	470	3.5	25	30	160	67-1716-1-ND	1.84	1.54	1.23	67-1716-2-ND	3,000	1019.24/M	SML-LXR85USBC-TR
16	2.0 x 3.0mm	Ultra Super Blue	Water Clear	470	3.5	30	60	90	67-1726-1-ND	2.46	2.15	1.85	67-1726-2-ND	1,000	1019.24	SML-LX23USBC-TR
18	2.0 x 2.5mm Gull Wing	Ultra Super Blue	Water Clear	470	3.5	30	250	25	67-1731-1-ND	2.46	2.15	1.85	67-1731-2-ND	1,000	1019.24	SSL-LXA228USBC-TR11
21	T-1 RA	Ultra Super Blue	Blue Diff.	470	3.5	30	80	60	67-1746-1-ND	4.36	3.82	3.27	67-1746-2-ND	1,000	1809.40	SSF-LXH305USBD-TR

AlInGaP Surface Mount LEDs

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Lumex Part No.
										1	10	100		Size	Pricing	
3	0402	Red	Water Clear	636	2.0	30	140	120	67-1878-1-ND	.40	.36	.31	67-1878-2-ND	2,000	167.66/M	SML-LX0402SIC-TR
		Orange		610	2.0	30	120	120	67-1879-1-ND	.38	.33	.29	67-1879-2-ND	2,000	156.04/M	SML-LX0402SOC-TR
		Super Yellow		590	2.0	30	60	120	67-1880-1-ND	.40	.36	.31	67-1880-2-ND	2,000	167.66/M	SML-LX0402SYC-TR
		Green		574	2.2	25	45	120	67-1881-1-ND	.82	.72	.62	67-1881-2-ND	2,000	338.64/M	SML-LX0402SUGC-TR
4	0603	Super Intensity Red	White Diff.	636	2.0	30	60	140	67-1690-1-ND	.41	.34	.28	67-1690-2-ND	4,000	225.76/M	SML-LX0603SIW-TR
		Super Orange		610	2.0	30	60	140	67-1691-1-ND	.41	.34	.28	67-1691-2-ND	4,000	225.76/M	SML-LX0603SOW-TR
		Super Yellow		590	2.0	30	60	140	67-1694-1-ND	.49	.41	.33	67-1694-2-ND	4,000	272.24/M	SML-LX0603SYW-TR
		Super Ultra Green		574	2.2	25	45	140	67-1693-1-ND	.60	.50	.40	67-1693-2-ND	4,000	332.00/M	SML-LX0603SUGW-TR
5	0805	Super Red	Water Clear	636	2.0	30	60	140	67-1636-1-ND	.36	.30	.24	67-1636-2-ND	3,000	199.20/M	SML-LX0805SIC-TR
		Super Orange		610	2.0	30	60	140	67-1637-1-ND	.36	.30	.24	67-1637-2-ND	3,000	199.20/M	SML-LX0805SOC-TR
		Ultra Green		525	3.5	30	45	140	67-1640-1-ND	5.28	4.40	3.52	67-1640-2-ND	3,000	2921.60/M	SML-LX0805UPGC-TR
		Super Blue		470	3.5	30	25	140	67-1638-1-ND	3.18	2.65	2.12	67-1638-2-ND	3,000	1759.60/M	SML-LX0805USBC-TR
7	1206	Super Intensity Red	Water Clear	636	2.0	30	70	140	67-1695-1-ND	.24	.22	.19	67-1695-2-ND	3,000	101.26/M	SML-LX1206SIC-TR
		Super Orange		610	2.0	30	70	140	67-1696-1-ND	.49	.43	.37	67-1696-2-ND	3,000	202.52/M	SML-LX1206SOC-TR
		Super Yellow		590	2.0	30	70	140	67-1699-1-ND	.66	.58	.50	67-1699-2-ND	3,000	272.24/M	SML-LX1206SYC-TR
		Super Ultra Green		574	2.2	25	45	140	67-1698-1-ND	1.08	.95	.81	67-1698-2-ND	3,000	448.20/M	SML-LX1206SUGC-TR
9	1210	Red/Green	Water Clear	660/565	1.7/2.2	30/25	15/10	160	67-1703-1-ND	.83	.73	.63	67-1703-2-ND	3,000	343.62/M	SML-LX1210SRSGC-TR
		Red/Red		635	2.0	25	10	160	67-1704-1-ND	.43	.38	.33	67-1704-2-ND	2,000	179.28/M	SML-LX1210IIC-TR
10	2832	Super Intensity Red	Water Clear	636	2.0	30	250	120	67-1705-1-ND	.72	.63	.54	67-1705-2-ND	2,000	298.80/M	SML-LX2832SIC-TR
		Super Orange		610	2.0	30	300	120	67-1706-1-ND	.72	.64	.55	67-1706-2-ND	2,000	300.46/M	SML-LX2832SOC-TR
		Super Yellow		590	2.0	30	140	120	67-1708-1-ND	.72	.64	.55	67-1708-2-ND	2,000	300.46/M	SML-LX2832SYC-TR
		Super Ultra Green		574	2.2	25	150	120	67-1707-1-ND	.72	.64	.55	67-1707-2-ND	2,000	300.46/M	SML-LX2832SUGC-TR
14	0.5 x 3.2mm	Red	Water Clear	636	2.0	25	70	160	67-1710-1-ND	.40	.33	.27	67-1710-2-ND	3,000	219.12/M	SML-LXR85SIC-TR
		Orange		610	2.0	30	75	160	67-1712-1-ND	.40	.33	.27	—	—	—	SML-LXR85SOC-TR
		Yellow		590	2.0	25	50	160	67-1714-1-ND	.55	.46	.37	67-1714-2-ND	3,000	305.44/M	SML-LXR85SYC-TR
		Green		574	2.2	25	45	160	67-1713-1-ND	.59	.49	.39	67-1713-2-ND	3,000	323.70/M	SML-LXR85SUGC-TR
16	2.0 x 3.0mm	Super Intensity Red	Water Clear	636	2.0	30	300	90	67-1722-1-ND	.96	.84	.72	67-1722-2-ND	2,000	398.40/M	SML-LX23SIC-TR
		Super Yellow		590	2.0	30	200	90	67-1725-1-ND	.96	.84	.72	67-1725-2-ND	2,000	398.40/M	SML-LX23SYC-TR
		Super Ultra Green		574	2.2	25	80	90	67-1724-1-ND	1.24	1.09	.93	67-1724-2-ND	2,000	512.94/M	SML-LX23SUGC-TR
18	2.0 x 2.5mm Gull Wing	Super Intensity Red	Water Clear	636	2.0	30	475	25	67-1727-1-ND	.82	.72	.62	67-1727-2-ND	1,000	338.64	SSL-LXA228SIC-TR11
		Super Orange		610	2.0	30	700	25	67-1728-1-ND	.82	.72	.62	67-1728-2-ND	1,000	338.64	SSL-LXA228SOC-TR11
		Super Yellow		590	2.0	30	300	25	67-1730-1-ND	.66	.58	.50	67-1730-2-ND	1,000	272.24	SSL-LXA228SYC-TR11
		Super Green		575	2.2	25	200	25	67-1729-1-ND	.61	.54	.46	67-1729-2-ND	1,000	253.98	SSL-LXA228SUGC-TR11
21	T-1 (3mm) SMT RA	Super Orange	Orange Diff.	610	2.1	30	100	60	67-1744-1-ND	2.16	1.89	1.62	—	—	—	SSF-LXH305SOD-TR
		Super Green	Green Diff.	565	2.2	30	150	60	67-1742-1-ND	1.20	1.06	.91	67-1742-2-ND	1,000	499.66	SSF-LXH305SGD-TR

SMT RGB (Red/Green/Blue) LEDs

Fig. 1

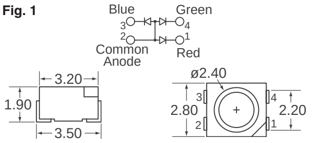

Fig. 2

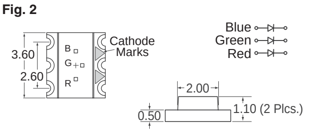

Fig. 3

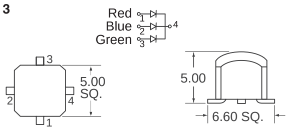

Fig. 4

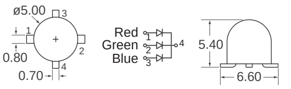

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape & Reel		Lumex Part No.
										1	10	100		Size	Pricing	
1	2.8 x 3.2mm	Red Green Blue	Water Clear	660 574 430	1.7 2.2 3.5	30 25 30	80 60 60	120	67-1820-1-ND	2.58	2.26	1.94	67-1820-2-ND	2,000	1070.70/M	SML-LX2832SISUGSBC
2	3.2 x 3.6mm	Red Green Blue	Water Clear	636 574 430	2.0 2.2 3.5	25 25 30	75 60 50	120	67-1821-1-ND	2.58	2.26	1.94	67-1821-2-ND	1,000	1070.70	SML-LX3632SISUGSBC
3	5.0 x 5.0mm	Red Green Blue	White Diff.	660 565 430	1.7 2.1 3.8	30 25 30	9 9 8	120	67-1822-1-ND	5.34	4.94	4.81	67-1822-2-ND	500	2216.10	SML-LXL5550SRSGSBW
4	T-1 3/4 (5mm)	Red Green Blue	Water Clear	640 525 470	1.7 3.5 3.5	30 25 30	800 700 800	30	67-1823-1-ND	5.34	4.94	4.81	67-1823-2-ND	500	2216.10	SML-LXL505SIUPGUSC

LEDs

Fig. 1

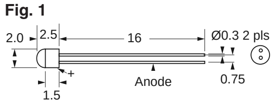

Fig. 2

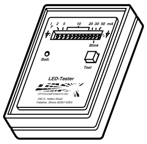

Features:
- Allows quick testing of LEDs at 2, 5, 10, 20, 30, or 50 mA drive current levels with the push of a button.
- Requires: 9 Volt Battery (not included).

Fig. 3

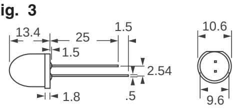

Fig. 4

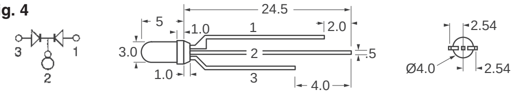

Fig.	LED Dia. (mm)	Emitted Color	Oper Current (mA)	Oper Type Volt (V)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
Ceramic Stem LEDs									
1	2	Orange/Red	20	2.0	67-1197-ND	1.02	.85	.68	SSL-LX203CIT
	2	Green	20	2.2	67-1198-ND	1.02	.85	.68	SSL-LX203CGT
	2	Yellow	20	2.1	67-1199-ND	1.02	.85	.68	SSL-LX203CYT
	2	Red	20	1.7	67-1200-ND	1.26	1.05	.84	SSL-LX203CSRT
2	LED Tester Box....................................				67-1398-ND	38.00	—	—	LED-Tester-Box

Fig.	Emitted Color	Epoxy Lens Color	Typical mCD Intensity @ 20mA If	Emission Total Angle	Peak Wave-length	Vf @ 20mA If Typ.	Max.	Steady If Max.	Digi-Key Part No.	Price Each 1	10	25	Lumex Part No.
10MM Mega-Brite Lites													
3	Or/Red	Clear	4500	8°	620nm	2.1	2.5	30mA	67-1399-ND	2.37	1.98	1.78	SSL-LX100133XOC
	Green	Clear	1600	8°	568nm	2.2	2.7	25mA	67-1400-ND	.72	.60	.54	SSL-LX100133XGC
	Yellow	Clear	2500	8°	590nm	2.1	2.5	30mA	67-1401-ND	2.61	2.18	1.96	SSL-LX100133XYC/B

Fig.	Color Pin 1	Pin 3	Vf	Io (mcd)	View Angle	If (mA)	Digi-Key Part No.	Price Each 1	25	100	250	Lumex Part No.
Bi-Color LEDs												
4	Green	Yellow	2.0	30/30	60°	20	67-1329-ND	.75	.63	.51	.44	SSL-LX3059GYW
	Red	Green	2.0	30	60°	20	67-1327-ND	.75	.63	.51	.44	SSL-LX3059IGW
	Red	Yellow	2.0	30	60°	20	67-1328-ND	.75	.63	.51	.44	SSL-LX3059IYW

Low Battery Indicators

Emitted Color: Red **Wavelength (NM):** 660
Intensity: 3mcd **Standby Current:** 5µA

Fig. 1

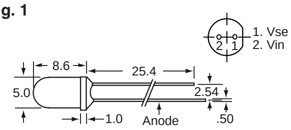

Fig. 2

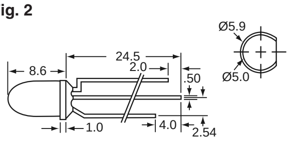

Fig. 3

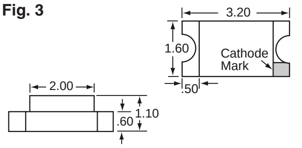

Fig. 4

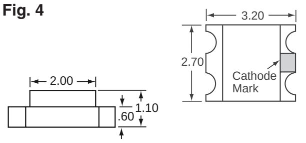

Fig.	Detection Voltage (V)	View-ing Angle	Digi-Key Part No.	Cut Tape Price Each 1	10	25	100	Lumex Part No.
1	2.5	60°	67-1195-ND†	1.11	—	.93	.74	SSL-LX5093LBI-SRD
2	3.75 - 7.5	60°	67-1196-ND†	1.44	—	1.20	.96	SSL-LX5099LBI-SRD
3	2.5	140°	67-1193-1-ND	1.80	1.58	—	1.35	SML-LX1206LBI-SRD
4	3.75 - 7.5	140°	67-1194-1-ND	2.28	2.00	—	1.71	SML-LX1210LBI-SRD

† Bulk pricing

T-1 3/4 Flashing LED Lamps

Features:
- Operating Voltage: 3.0 ~ 14.0
- Blinking Frequency: 1.5 ~ 2.5Hz
- Operating Temperature Range: -55°C ~ 100°C

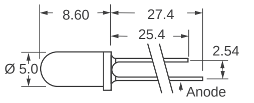

Color	Color Source	Io @ VF=9V (mcd)	Viewing Angle	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
Red/Diff.	Brt. Red	200	60°	67-1499-ND	.93	.78	.62	SSL-LX5093BSRD
Dark Red/Diff.	Red	4.0	60°	67-1497-ND	.84	.71	.57	SSL-LX5093BHD
Red/Diff.	Red	40	60°	67-1498-ND	.84	.71	.57	SSL-LX5093BID
Green/Diff.	Green	20	60°	67-1496-ND	.84	.71	.57	SSL-LX5093BGD
Yellow/Diff.	Yellow	20	60°	67-1495-ND	.84	.71	.57	SSL-LX5093BYD

20mm 6-Element LED Dome

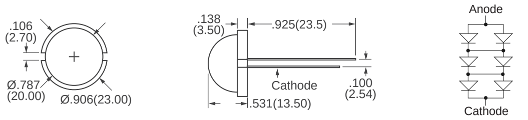

Color	Wave-length λ (nm)	Vf Typ. (V)	If Max. (mA)	Io @ If = 20mA (mcd)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
Green	565	6.6	25	25	67-1526-ND	1.74	1.45	1.16	SSL-LX20R6GD
Red	635	6.0	30	35	67-1527-ND	1.74	1.45	1.16	SSL-LX20R6ID
Red	660	5.1	30	60	67-1528-ND	2.22	1.85	1.48	SSL-LX20R6SRD
Yellow	585	6.3	30	23	67-1529-ND	1.74	1.45	1.16	SSL-LX20R6YD

PC Mount LED Arrays / Light Bars

Fig. 1

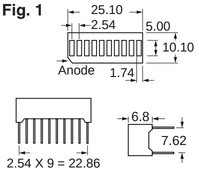

Fig. 2

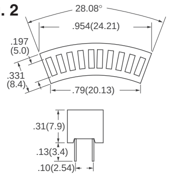

Fig. 3

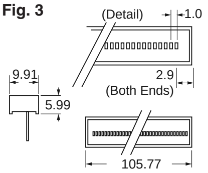

Fig. 4

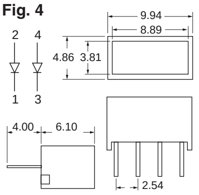

Fig. 5

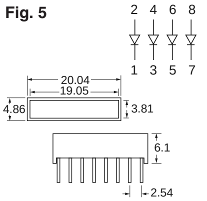

Fig. 6

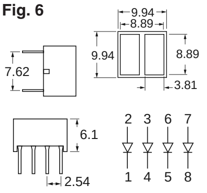

Fig. 7

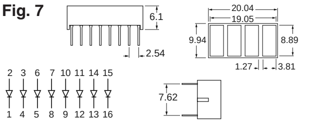

Fig. 8

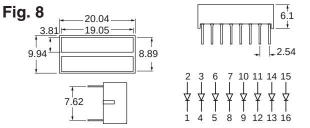

Fig. 9

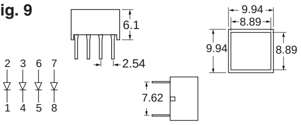

Fig. 10

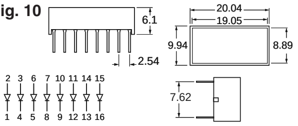

Fig.	Emitted Color	Vf	Io (mcd)	If (mA)	Digi-Key Part No.	Price Each 1	25	100	Lumex Part No.
1	Green	2.2	10	25	67-1008-ND	2.85	2.38	1.90	SSA-LXB10GW-GF/LP
1	Red	2.0	4	30	67-1009-ND	2.13	1.78	1.42	SSA-LXB10HW-GF/LP
1	Red	2.0	10	30	67-1010-ND	2.85	2.38	1.90	SSA-LXB10IW-GF/LP
2	Green	2.2	10	30	67-1524-ND	3.90	3.25	2.60	SSA-LXB10GW-10652
2	Red	1.7	40	30	67-1525-ND	6.72	5.60	4.48	SSA-LXB10SRW-10652
3	Red	2.1	5	30	67-1011-ND	58.06	51.23	47.81	SSA-LXB8825
3	Green	2.2	5	30	67-1012-ND	58.06	51.23	47.81	SSA-LXB8835
4	Red	2.0	25	30	67-1013-ND	.91	.76	.61	SSB-LX2300IW
5	Red	2.1	50	30	67-1014-ND	1.36	1.14	.91	SSB-LX2350IW
4	Yellow	2.1	18	30	67-1015-ND	.91	.76	.61	SSB-LX2400YW
5	Yellow	2.1	40	30	67-1016-ND	1.36	1.14	.91	SSB-LX2450YW
4	Green	2.2	25	25	67-1017-ND	.91	.76	.61	SSB-LX2500SGW
6	Red	2.1	25	30	67-1018-ND	1.49	1.25	1.00	SSB-LX2600IW
7	Red	2.1	25	30	67-1019-ND	2.36	1.97	1.57	SSB-LX2620IW
8	Red	2.0	50	30	67-1020-ND	2.36	1.97	1.57	SSB-LX2635IW
9	Red	2.1	45	30	67-1021-ND	1.49	1.25	1.00	SSB-LX2655IW
10	Red	2.1	80	30	67-1022-ND	2.36	1.97	1.57	SSB-LX2685IW
6	Yellow	2.1	18	30	67-1023-ND	1.49	1.25	1.00	SSB-LX2700YW
7	Yellow	2.1	18	30	67-1024-ND	2.36	1.97	1.57	SSB-LX2720YW
8	Yellow	2.1	40	30	67-1025-ND	2.36	1.97	1.57	SSB-LX2735YW
9	Yellow	2.1	35	30	67-1026-ND	1.49	1.25	1.00	SSB-LX2755YW
10	Yellow	2.1	70	30	67-1027-ND	2.36	1.97	1.57	SSB-LX2785YW
9	Red/Yel	2.1	25	30	67-1028-ND	2.49	2.08	1.66	SSB-LX2950IYW
9	Red/Grn	2.1	25	30/25	67-1029-ND	2.49	2.08	1.66	SSB-LX2965IGW
4	Red	1.7	40	30	67-1030-ND	1.04	.87	.70	SSB-LXA100SRW
5	Red	1.7	80	30	67-1031-ND	1.53	1.28	1.03	SSB-LXB100SRW
9	Red	1.7	80	30	67-1032-ND	2.35	1.96	1.57	SSB-LXC100SRW
6	Red	1.7	40	30	67-1033-ND	2.35	1.96	1.57	SSB-LXD100SRW
7	Red	1.7	40	30	67-1034-ND	2.72	2.27	1.81	SSB-LXE100SRW
8	Red	1.7	80	30	67-1035-ND	2.72	2.27	1.81	SSB-LXF100SRW
10	Red	1.7	150	30	67-1036-ND	2.72	2.27	1.81	SSB-LXH100SRW

Panel Mount LEDs

Dimensions in mm

Fig. 1

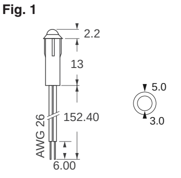

Fig. 2

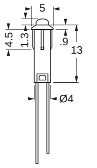

Fig. 3

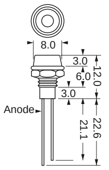

Fig. 4

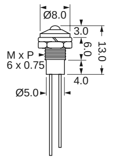

Fig. 5

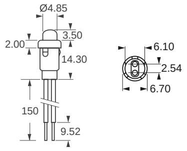

Fig. 6

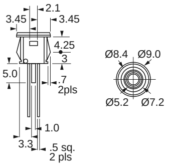

Fig. 7

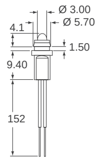

(rear panel mount)

Fig. 8

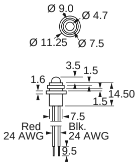

(rear panel mount)

Fig. 9

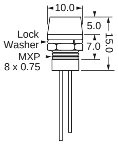

(reflector bezel)

Fig. 10

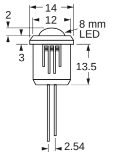

Fig. 11

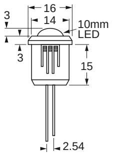

Fig. 12

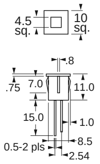

Fig. 13

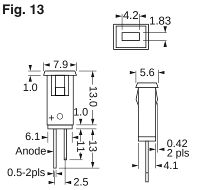

Fig. 14

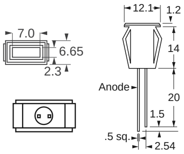

Fig. 15

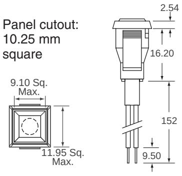

Fig. 16

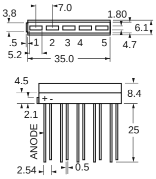

Fig. 17

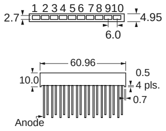

Fig. 18

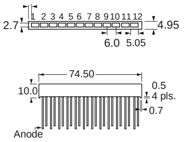

Fig. 19

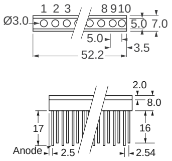

Fig. 20

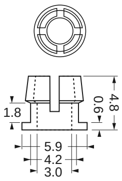

Fig. 21

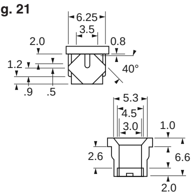

Fig. 22

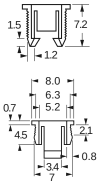

Fig. 23

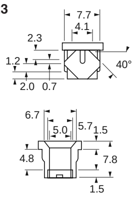

Fig. 24

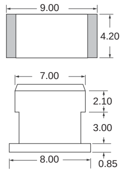

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typical	If (mA) Maximum	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	50	Lumex Part No.
1	T-1 (3mm)	Red	Red Diffused	635	2.0	30	30	60	67-1190-ND	1.20	.96	.84	SSI-LXH312ID-150
		Green	Green Diffused	565	2.1	25	30	60	67-1191-ND	1.20	.96	.84	SSI-LXH312GD-150
2	T-1 (3mm)	Red	Red Diffused	635	2.0	30	30	60	67-1192-ND	.63	.50	.44	SSI-LXH312ID
3	T-1 (3mm)	Super Red	Red Diffused	660	1.8	30	70	60	67-1150-ND	1.25	1.00	.88	SSI-LXR1612SRD
		Red	Red Diffused	635	2.0	30	30	60	67-1147-ND	1.13	.90	.79	SSI-LXR1612ID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1149-ND	1.13	.90	.79	SSI-LXR1612YD
		Green	Green Diffused	565	2.2	25	30	60	67-1148-ND	1.13	.90	.79	SSI-LXR1612GD
4	T-1 (3mm)	Super Red	Red Diffused	660	1.8	30	65	60	67-1154-ND	1.30	1.04	.91	SSI-LXR3612SRD
		Red	Red Diffused	635	2.0	30	30	60	67-1151-ND	1.18	.94	.83	SSI-LXR3612ID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1153-ND	1.18	.94	.83	SSI-LXR3612YD
		Green	Green Diffused	565	2.2	25	30	60	67-1152-ND	1.18	.94	.83	SSI-LXR3612GD
5	T-1 3/4 (5mm)	Red/Green	White Diffused	700/565	2.0/2.2	25	6/25	60	67-1187-ND	1.88	1.50	1.32	SSI-LXH600HGW-150
		Red	Red Diffused	635	2.0	30	40	60	67-1188-ND	1.15	.92	.81	SSI-LXH600ID-150
		Green	Green Diffused	565	2.2	25	30	60	67-1189-ND	1.15	.92	.81	SSI-LXH600GD-150
6	T-1 3/4 (5mm)	Super Red	Red Diffused	660	1.7	30	60	120	67-1158-ND	1.30	1.04	.91	SSI-LXH387SRD
		Red	Red Diffused	635	2.0	30	10	120	67-1155-ND	1.13	.90	.79	SSI-LXH387ID
		Yellow	Yellow Diffused	585	2.1	30	10	120	67-1157-ND	1.13	.90	.79	SSI-LXH387YD
		Green	Green Diffused	565	2.2	30	10	120	67-1156-ND	1.13	.90	.79	SSI-LXH387GD
7	T-1 (3mm)	Super Red	Red Diffused	660	1.7	30	100	60	67-1677-ND	2.44	1.96	1.71	SSI-RM3091SRD-150
		AlInGap Red	Red Diffused	636	2.0	30	100	60	67-1679-ND	2.60	2.08	1.82	SSI-RM3091SID-150
		Red	Red Diffused	635	2.0	30	30	60	67-1676-ND	2.16	1.73	1.52	SSI-RM3091ID-150
		Super Orange	Orange Diffused	610	2.0	30	100	60	67-1680-ND	2.49	1.99	1.75	SSI-RM3091SOD-150
		Super Yellow	Yellow Diffused	590	2.1	30	100	60	67-1682-ND	2.49	1.99	1.75	SSI-RM3091SYD-150
		Super Ultra Green	Green Diffused	574	2.2	25	50	60	67-1688-ND	2.75	2.20	1.93	SSI-RM3091SUGD-150
		Yellow	Yellow Diffused	585	2.1	30	20	60	67-1678-ND	2.16	1.73	1.52	SSI-RM3091YD-150
		Green	Green Diffused	565	2.2	25	20	60	67-1675-ND	2.16	1.73	1.52	SSI-RM3091GD-150
		Ultra Super Blue	Blue Diffused	470	3.5	30	60	60	67-1683-ND	4.55	3.64	3.19	SSI-RM3091USBD-150
8	T-1 3/4 (5mm)	Super Red	Red Diffused	660	1.7	30	80	60	67-1162-ND	1.38	1.10	.97	SSI-LXH9SRD-150
		Red	Red Diffused	635	2.0	30	40	60	67-1159-ND	1.23	.98	.86	SSI-LXH9ID/-150
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1161-ND	1.23	.98	.86	SSI-LXH9YD-150
		Green	Green Diffused	565	2.2	25	30	60	67-1160-ND	1.23	.98	.86	SSI-LXH9GD-150
9	T-1 3/4 (5mm)	Super Red	Red Diffused	660	1.8	30	300	60	67-1166-ND	1.25	1.00	.88	SSI-LXR4815SRD
		Red	Red Diffused	635	2	30	40	60	67-1163-ND	1.13	.90	.79	SSI-LXR4815ID
		Yellow	Yellow Diffused	585	2.1	30	20	60	67-1165-ND	1.13	.90	.79	SSI-LXR4815YD
		Green	Green Diffused	565	2.2	25	30	60	67-1164-ND	1.13	.90	.79	SSI-LXR4815GD
10	8mm	Super Red	Red Diffused	660	1.7	30	80	60	67-1170-ND	.85	.68	.60	SSI-LXH8080SRD
		Red	Red Diffused	635	2.0	30	40	60	67-1167-ND	.70	.56	.49	SSI-LXH8080ID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1169-ND	.70	.56	.49	SSI-LXH8080YD
		Green	Green Diffused	565	2.2	25	30	60	67-1168-ND	.70	.56	.49	SSI-LXH8080GD
11	10mm	Super Red	Red Diffused	660	1.7	30	80	60	67-1174-ND	.98	.78	.69	SSI-LXH1090SRD
		Red	Red Diffused	635	2.0	30	40	60	67-1171-ND	.85	.68	.60	SSI-LXH1090ID
		Yellow	Yellow Diffused	585	2.1	30	30	60	67-1173-ND	.85	.68	.60	SSI-LXH1090YD
		Green	Green Diffused	565	2.2	25	30	60	67-1172-ND	.85	.68	.60	SSI-LXH1090GD
12	5mm	Super Red	Red Diffused	660	1.8	30	20	80	67-1178-ND	.80	.64	.56	SSI-LXH55SRD
		Red	Red Diffused	635	2.0	30	10	80	67-1175-ND	.65	.52	.46	SSI-LXH55ID
		Yellow	Yellow Diffused	585	2.1	30	10	80	67-1177-ND	.65	.52	.46	SSI-LXH55YD
		Green	Green Diffused	565	2.2	25	10	80	67-1176-ND	.65	.52	.46	SSI-LXH55GD
13	2 x 5mm	Super Red	Red Diffused	660	1.7	30	25	110	67-1182-ND	1.15	.92	.81	SSI-LXMP059SRD
		Red	Red Diffused	635	2.0	30	10	110	67-1179-ND	.95	.76	.67	SSI-LXMP059ID
		Yellow	Yellow Diffused	585	2.1	30	10	110	67-1181-ND	.95	.76	.67	SSI-LXMP059YD
		Green	Green Diffused	565	2.2	25	10	110	67-1180-ND	.95	.76	.67	SSI-LXMP059GD

(Continued)

0

Panel Mount LEDs *(Cont.)*

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typical	If (mA) Maximum	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 50	Lumex Part No.
14	2.3 x 7mm	Super Red	Red Diffused	660	1.7	30	50	110	67-1186-ND	1.00	.80	.70	SSI-LXH072SRD
		Red	Red Diffused	635	2.0	30	15	110	67-1183-ND	.85	.68	.60	SSI-LXH072ID
		Yellow	Yellow Diffused	585	2.1	30	9	110	67-1185-ND	.85	.68	.60	SSI-LXH072YD
		Green	Green Diffused	565	2.2	25	9	110	67-1184-ND	.85	.68	.60	SSI-LXH072GD
15	9 x 9mm	Super Red	Water Clear	660	1.8	30	60	60	67-1545-ND	1.65	1.32	1.16	SSI-LXMP5011SRC-150
		Red	Water Clear	635	2.0	30	20	60	67-1544-ND	1.50	1.20	1.05	SSI-LXMP5011IC-150
		Yellow	Water Clear	585	2.1	30	15	60	67-1546-ND	1.50	1.20	1.05	SSI-LXMP5011YC-150
		Green	Water Clear	565	2.2	25	15	60	67-1543-ND	1.50	1.20	1.05	SSI-LXMP5011GC-150
16	2 x 5mm	Super Red	Red Diffused	660	1.7	30	40	110	67-1204-ND	2.48	1.98	1.74	SSA-LXB525SRD
		Red	Red Diffused	635	2.0	30	12	110	67-1201-ND	1.53	1.22	1.07	SSA-LXB525ID
		Yellow	Yellow Diffused	585	2.1	30	10	110	67-1203-ND	1.60	1.28	1.12	SSA-LXB525YD
		Green	Green Diffused	565	2.0	25	10	110	67-1202-ND	1.53	1.22	1.07	SSA-LXB525GD
17	2.5 x 5mm	Super Red	Red Diffused	660	1.8	30	25	60	67-1208-ND	4.45	3.56	3.12	SSA-LXH1025SRD
		Red	Red Diffused	635	2.0	30	10	60	67-1205-ND	3.10	2.48	2.17	SSA-LXH1025ID
		Yellow	Yellow Diffused	585	2.1	30	10	60	67-1207-ND	3.48	2.78	2.44	SSA-LXH1025YD
		Green	Green Diffused	565	2.2	25	10	60	67-1206-ND	3.10	2.48	2.17	SSA-LXH1025GD
18	2.5 x 5mm	Super Red	Red Diffused	660	2.0	30	30	80	67-1212-ND	6.63	5.30	4.64	SSA-LXH1225SRD
		Red	Red Diffused	635	2.0	30	10	80	67-1209-ND	4.55	3.64	3.19	SSA-LXH1225ID
		Yellow	Yellow Diffused	585	2.1	30	10	80	67-1211-ND	4.78	3.82	3.35	SSA-LXH1225YD
		Green	Green Diffused	565	2.0	30	10	80	67-1210-ND	4.55	3.64	3.19	SSA-LXH1225GD
19	3mm	Super Red	Red Diffused	660	1.7	30	25	80	67-1216-ND	5.48	4.38	3.84	SSA-LXB102SRD
		Red	Red Diffused	635	2.0	30	8	80	67-1213-ND	3.73	2.98	2.61	SSA-LXB102ID
		Yellow	Yellow Diffused	585	2.1	30	8	80	67-1215-ND	3.48	2.78	2.44	SSA-LXB102YD
		Green	Green Diffused	565	2.1	25	8	80	67-1214-ND	3.73	2.98	2.61	SSA-LXB102GD

Panel Mount LED Holders

Fig.	Description	Panel Hole	Digi-Key Part No.	Pricing 5	Pricing 25	Pricing 100	Lumex Part No.
20	T1 Black Nylon	.160" (4.06)	67-1330-ND	.60	2.25	7.50	SSH-LX3050
21	T1 Black Nylon	.225" (5.71)	67-1331-ND	.60	2.25	7.50	SSH-LXH301
22	T1-3/4 Black Nylon	.250" (6.35)	67-1332-ND	.40	1.50	5.00	SSH-LX5091
23	T1-3/4 Black Nylon	.330" (8.38)	67-1333-ND	.60	2.25	7.50	SSH-LXH501
24	Mounting Clip and Ring for T1-3/4	.250" (6.35)	67-1044-ND	.36	1.35	4.50	SSH-LX5090

Poly LEDs Completely Encapsulated LED Clusters with Water Clear Lenses

Dim. in Inches (mm)

Fig. 1

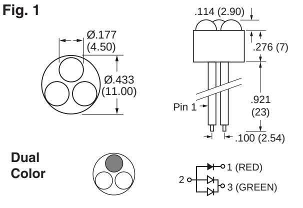

Fig. 2

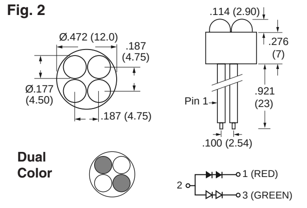

Fig. 3

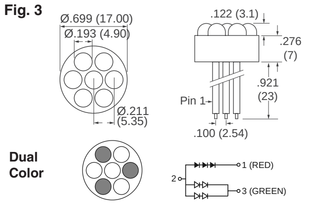

Fig. 4

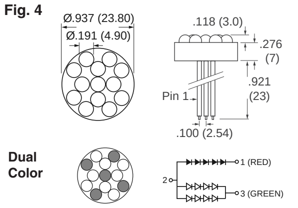

Fig. 5

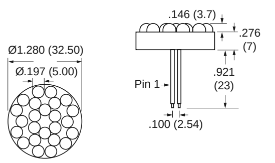

Fig. 6

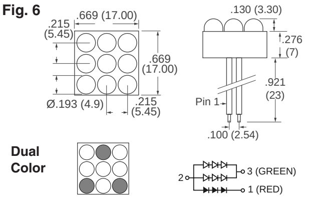

Fig. 7

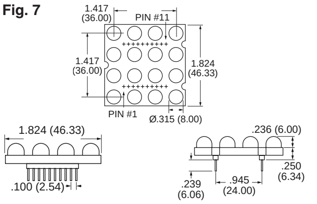

Fig. 8

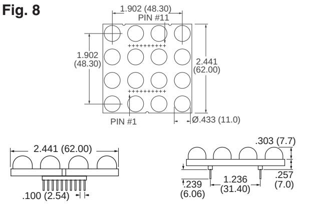

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Sunbrite Part No.
1	11mm 3 (5mm)	Ultra Red	Water Clear	626	5.4	30	2,000	30°	441-1049-ND	2.55	2.13	1.70	SSP-LXC0436U3
		Super Yellow		590	6.3	30	1,200	30°	441-1046-ND	2.55	2.13	1.70	SSP-LXC0433S3
2	12mm 4 (5mm)	Ultra Red	Water Clear	626	3.6	30	2,000	30°	441-1054-ND	3.24	2.70	2.16	SSP-LXC0476U4
		Super Green		565	4.4	25	300	30°	441-1050-ND	1.80	1.50	1.20	SSP-LXC0472S4
3	17mm 7 (5mm)	Super Red	Water Clear	660	5.4/3.6	30	2,000	30°	441-1058-ND	2.61	2.18	1.74	SSP-LXC06767A
		Ultra Red		626	5.4/3.6	30	2,000	30°	441-1059-ND	5.04	4.20	3.36	SSP-LXC0676U7A
		Super Yellow		590	6.3/4.2	30	1,200	30°	441-1056-ND	5.04	4.20	3.36	SSP-LXC0673S7A
		Super Green		565	6.6/4.4	25	300	30°	441-1055-ND	2.52	2.10	1.68	SSP-LXC0672S7A
4	23.80mm 13 (5mm)	Super Yellow	Water Clear	590	10.5/8.4	30	1,200	30°	441-1061-ND	7.63	6.10	5.34	SSP-LXC0943S13A
5	32.50mm 24 (5mm)	Super Red	Water Clear	660	10.8	30	2,000	30°	441-1067-ND	8.28	6.90	5.52	SSP-LXC128624
		Ultra Red		626	10.8	30	2,000	30°	441-1068-ND	13.83	11.06	9.68	SSP-LXC1286U24
		Super Yellow		590	12.6	30	1,200	30°	441-1066-ND	13.83	11.06	9.68	SSP-LXC1283S24
		Super Green		565	13.2	25	300	30°	441-1065-ND	7.83	6.53	5.22	SSP-LXC1282S24
6	17mm Sq. 9 (5mm)	Sup. Red/Sup. Green	Water Clear	660/565	5.4/6.6	30/25	2,000/300	45°	441-1071-ND	2.55	2.13	1.70	SSP-LXS06762S9A
		Ultra Red		626	5.4	30	2,000	45°	441-1073-ND	6.39	5.33	4.26	SSP-LXS0676U9
		Super Yellow		590	6.3	30	900	45°	441-1070-ND	6.39	5.33	4.26	SSP-LXS0673S9
7	46.33mm Sq. 16 (8mm)	Super Yellow	Water Clear	590	2.1	30	1,200	30°	441-1075-ND	9.35	7.48	6.55	SSP-LXS1823S16A
8	62mm Sq. 16 (11mm)	Super Yellow	Water Clear	590	2.1	30	700	30°	441-1079-ND	11.50	9.20	8.05	SSP-LXS2443S16A
		Super Green		565	2.2	25	300	30°	441-1078-ND	8.00	6.40	5.60	SSP-LXS2442S16A

Sunbrite Based LEDs

Fig. 1

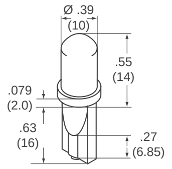

Fig. 2

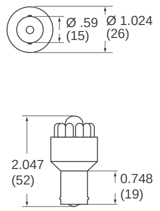

Fig. 3

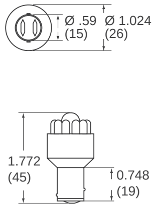

Fig. 4

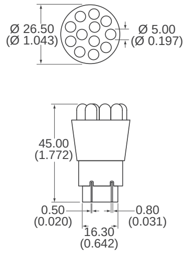

Fig. 5

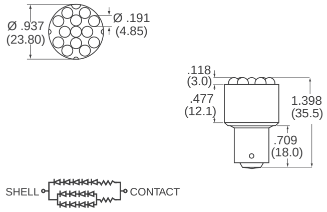

Fig. 6

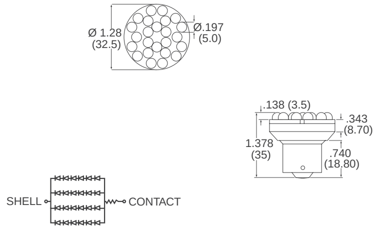

Fig. 7

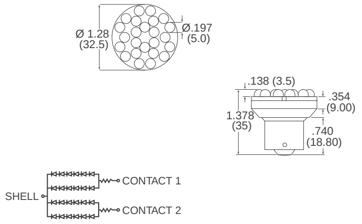

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each			Sunbrite Part No.
									1	10	100	
						LED Miniature Wedge Base						
1	Red	Milky White Diff.	626	12	30	2800	60	441-1004-ND	.99	.83	.66	SSP-01TWB6UW12
	Red	Water Clear	626	12	30	8000	30	441-1005-ND	.99	.83	.66	SSP-01TWB6UWB12
	Ultra Green	Milky White Diff.	525	12	30	2800	60	441-1000-ND	1.60	1.34	1.07	SSP-01TWB2UPW12
	Pure Green	Water Clear	525	12	30	9000	30	441-1001-ND	1.60	1.34	1.07	SSP-01TWB2UPWB12
	Super Blue	Milky White Diff.	470	12	30	1600	60	441-1006-ND	1.50	1.25	1.00	SSP-01TWB7UW12
	Super Blue	Water Clear	470	12	30	7000	30	441-1007-ND	1.60	1.34	1.07	SSP-01TWB7UWB12
	Ultra White	Milky White Diff.	—	12	30	3300	60	441-1008-ND	1.60	1.34	1.07	SSP-01TWB9W12
	Ultra White	Water Clear	—	12	30	11000	30	441-1009-ND	1.60	1.34	1.07	SSP-01TWB9WB12
						1156 Based LED Lamp						
2	Red	Water Clear	626	12	110	70400	30	441-1012-ND	4.18	3.34	2.93	SSP-1156B156U12
	Yellow		590	12	110	48500	30	441-1011-ND	4.18	3.34	2.93	SSP-1156B153S12
	Green		525	12	110	47000	30	441-1010-ND	11.50	10.07	8.63	SSP-1156B152UP12
	Super Blue		470	12	110	13500	30	441-1013-ND	10.52	9.21	7.89	SSP-1156B157U12
	Ultra White		—	12	110	48000	30	441-1014-ND	11.50	10.07	8.63	SSP-1156B15912
						1157 Based LED Lamp						
3	Red	Water Clear	626	12	80	47000/15600	30	441-1016-ND	4.18	3.34	2.93	SSP-1157B156U12
	Yellow		590	12	80	48500/16100	30	441-1015-ND	4.18	3.34	2.93	SSP-1157B153S12
	Ultra White		—	12	80	48000/16000	30	441-1017-ND	11.46	10.03	8.60	SSP-1157B15912
						3157 Based LED Lamp						
4	Red	Water Clear	626	12	75	8000/2700	35	441-1084-ND	5.20	4.55	3.90	SSP-3157WB6U12
	Super Yellow		590	12	75	8300/2800	35	441-1083-ND	5.20	4.55	3.90	SSP-3157WB3S12
	Ultra Super Blue		470	12	75	8300/2800	35	441-1085-ND	9.80	8.58	7.35	SSP-3157WB7U12
	Ultra White		—	12	75	8200/2750	35	441-1086-ND	10.40	9.10	7.80	SSP-3157WB912
						Bayonet (BA15) Base						
5	Yellow	Water Clear	590	12	90	57500	30	441-1019-ND	5.21	4.17	3.65	SSP-13MB153S12G
6	Red	Water Clear	626	12	140	102400	60	441-1026-ND	9.25	7.40	6.48	SSP-24MB156U12G
	Yellow		590	12	140	106200	60	441-1025-ND	9.25	7.40	6.48	SSP-24MB153S12G
7	Red	Water Clear	626	12	140	102400/33800	60	441-1029-ND	9.25	7.40	6.48	SSP-24MDB156U12G
	Yellow		590	12	140	106200/35000	60	441-1028-ND	9.25	7.40	6.48	SSP-24MDB153S12G

LuxLEDs™

Dim. in Inches (mm)

Fig. 1

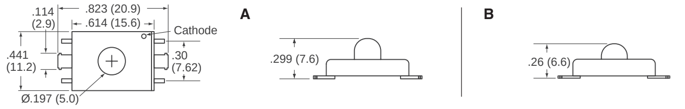

Fig. 2

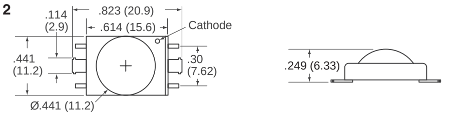

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf (V) Typ.	If (mA) Max.	Io (mcd)	Viewing Angle (2x Theta)	Digi-Key Part No.		Price Each		Sunbrite Part No.
										1	10	100	
1A	SMT, Narrow Viewing	Red	Water Clear	626	2.4	120	24,000	10°	441-1091-ND	6.25	4.38	3.75	SSP-LX6144A6UC
		Yellow		590	2.4	120	24,000	10°	441-1090-ND	6.25	4.38	3.75	SSP-LX6144A3SC
		Green		525	3.4	120	16,000	10°	441-1089-ND	8.75	6.13	5.25	SSP-LX6144A2UPC
		Blue		470	3.4	120	12,000	10°	441-1092-ND	8.75	6.13	5.25	SSP-LX6144A7UC
		White		—	3.4	120	12,000	10°	441-1093-ND	8.75	6.13	5.25	SSP-LX6144A9UC
1B	SMT, LuxLED	Red	Water Clear	626	2.4	120	12,000	30°	441-1096-ND	6.25	4.38	3.75	SSP-LX6144C6UC
		Yellow		590	2.4	120	12,000	30°	441-1095-ND	6.25	4.38	3.75	SSP-LX6144C3SC
		Green		525	3.4	120	5,600	30°	441-1094-ND	8.75	6.13	5.25	SSP-LX6144C2UPC
		White		—	3.4	120	4,000	30°	441-1098-ND	8.75	6.13	5.25	SSP-LX6144C9UC
2	SMT, Wide Viewing LuxLED, Low Profile	Red	Water Clear	626	2.4	120	3,200	100°	441-1101-ND	6.25	4.38	3.75	SSP-LX6144D6UC
		Yellow		590	2.4	120	3,200	100°	441-1100-ND	6.25	4.38	3.75	SSP-LX6144D3SC
		Green		525	3.4	120	1,600	100°	441-1099-ND	8.75	6.13	5.25	SSP-LX6144D2UPC
		Blue		470	3.4	120	1,600	100°	441-1102-ND	8.75	6.13	5.25	SSP-LX6144D7UC
		White		—	3.4	120	1,600	100°	441-1103-ND	8.75	6.13	5.25	SSP-LX6144D9UC

Bright Lights. Bright Ideas.

Light Engines

BL Series Light Engines are created with a heat spreader fabricated into the ceramic package. This heat spreader provides the most efficient thermal path from the die junction to the heat sink.

Dimensions in Inch (mm)

Fig. 1

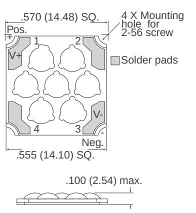

Fig. 2

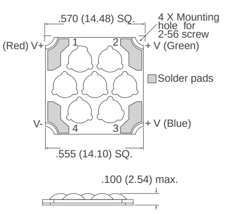

Fig. 3

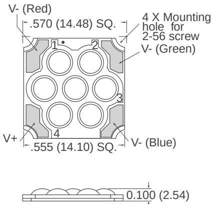

Fig. 4

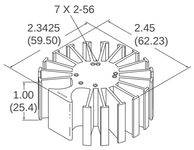

Fig. 5

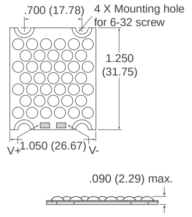

Fig. 6

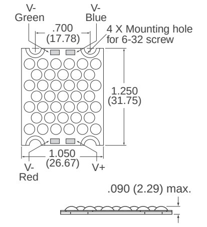

Fig.	Color	Vf Typical (V)*	If Typical (A)	Power (W)*	Lumens (lm)*	Digi-Key Part No.		Price Each		Lamina Part No.
							1	10	50	
BL-2000										
1	Red	6.69	2.8	18.73	348	521-1000-ND	20.42	18.43	16.74	BL-21A0-0121
	Amber	6.69	2.8	18.73	348	521-1001-ND	20.42	18.43	16.74	BL-21E0-0131
	Green	10	.42	4.2	73	521-1004-ND	13.36	12.06	10.95	BL-22C1-0141
	Blue	10.5	.42	4.41	22	521-1003-ND	11.97	10.80	9.81	BL-22B1-0140
	White**	10.5	.42	4.41	108	521-1005-ND‡	15.36	12.56	10.48	BL-22D0-0130
	White**	24	.21	5.0	100	521-1012-ND†	17.45	14.28	11.91	BL-22D1-0244
2	R/G/B	3/4/4	.63/.63/.21	1.89/2.52/.84	59/31/4.2	521-1002-ND	20.77	18.74	17.03	BL-22F0-0132
3	R/G/B	4.8/7/7	.21	1/1.5/1.5	21/26/8	521-1027-1-ND	18.34	14.40	12.02	BL-23F1-0246
	R/G/B	4.8/7/7	.21	1/1.5/1.5	21/26/8	521-1027-2-ND		3003.18/250		BL-23F1-0246
4	Heatsink, 1 Inch (25.4 mm), for BL-2000/4000......................					521-1015-ND	6.92	6.20	5.76	800-0345-1
BL-3000										
5	Red	6.69	15.6	104.33	1938	521-1006-ND	90.77	87.40	84.16	BL-31A0-0122
	Amber	6.69	15.6	104.33	1938	521-1007-ND	90.77	87.40	84.16	BL-31E0-0134
	Green	10	2.34	23.4	348	521-1009-ND	70.40	67.79	65.28	BL-32C1-0144
	Blue	10.5	2.34	24.57	115	521-1008-ND	55.68	53.61	51.63	BL-32B1-0143
	White**	10.5	2.34	24.57	567	521-1010-ND‡	69.85	59.43	56.70	BL-32D0-0133
	White**	24	1.17	28.0	525	521-1014-ND†	77.00	65.50	62.50	BL-32D1-0245
6	R/G/B	4.8/7.2/7.2	1.17	5.6/8.4/8.4	114/145/47	521-1013-ND	67.20	64.71	62.31	BL-33F0-0142
7	Heatsink, 1 Inch (25.4 mm), for BL-3000............................					521-1016-ND	25.62	23.78	22.90	HS-4100-0345
BL-4000										
8	R/G/B	4.5/6.7/7.6	.35	1.6/2.4/2.7	42/63/15	521-1017-1-ND	25.26	22.11	18.95	BL-43F0-0305
						521-1017-2-ND		4136.33/250		BL-43F0-0305
9	White**	7.6	.70	5.3	120	521-1018-1-ND‡	18.00	15.75	11.25	BL-42D0-0304
						521-1018-2-ND‡		2947.50/250		BL-42D0-0304
	White**	4.3	1.4	5.9	120	521-1026-1-ND‡	19.00	16.63	11.88	BL-42D2-0344
						521-1026-2-ND‡		3111.25/250		BL-42D2-0344
Accessories										
	Lens, Wide Flood Optic 70 DEG for BL-2000 Series					521-1019-ND	3.60	3.15	2.25	BL-OP20-070
	Lens, Wide Flood Optic 60 DEG for BL-3000 Series					521-1020-ND	5.78	5.06	3.62	BL-OP30-060
	Lens, Optic Narrow with Holder for BL-4000 Series					521-1021-ND	5.62	4.92	3.52	FHS-HNB1-LC01-H
	Lens, Optic Medium with Holder for BL-4000 Series					521-1022-ND	5.62	4.92	3.52	FHS-HMB1-LC01-H
	Lens, Optic Wide with Holder for BL-4000 Series					521-1023-ND	5.62	4.92	3.52	FHS-HWB1-LC01-H
	EZConnect Board with Connector for BL-4000 Series					521-1024-ND	8.84	7.74	5.53	800-0357
	EZConnect Assembly Cable for BL-4000 Series					521-1025-ND	4.50	3.94	2.82	800-0354

Fig. 7

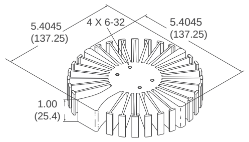

Fig. 8

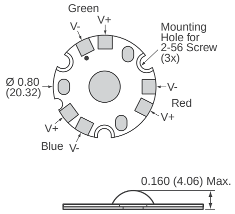

Fig. 9

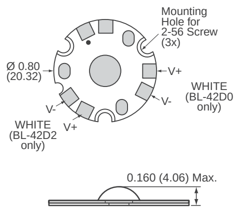

* Optical and electrical specifications are given for the specified drive current at a 25° junction temperature. **White LED color is expressed as color temperature in Kelvin Units. ‡ 5,500K † 4,300K

LED Incandescent Replacements

Chicago Miniature Incandescent replacements have extremely high brightness with low current draw. Long life typically 100K hours vs. 10K hours. Storage Temp: -25°C ~ 80°C Ambient Temp: -20°C ~ 60°C

Fig. 1

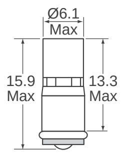

Replaces incandescent lamps:
-12VDC 394, 330, 382
- 24V DC and 28V DC 327, 376, 385, 387

Fig. 2

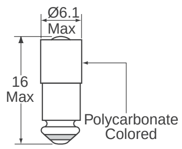

Replaces incandescent lamps:
- 12V DC 336, 386, 393
- 24V DC and 28V DC 276, 334, 388

Fig. 3

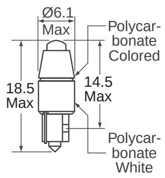

Replaces incandescent lamps:
- 12V AC/DC 18, 37, 70, 73, 74
- 24V AC/DC and 28V AC/DC 17, 85

Fig. 4

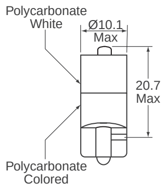

Replaces incandescent lamps:
- 12V AC/DC 192, 124, 158, 161, 168, 193, 194, 658, 184
- 24V AC/DC and 28V AC/DC 152, 400, 464, 585, 655, 656, 657

Fig. 5

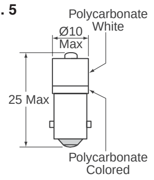

Replaces incandescent lamps:
- 12V AC/DC 12MB, 181, 756, 1488, 1815, 1894, 1889, 1891, 1893, 1898
- 24V AC/DC 24MB, 1437, 1818
- 28V AC/DC 313, 757, 1819, 1820, 1829, 1843, 1864, 1873

Fig. 6

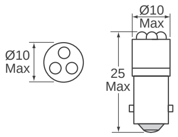

Replaces incandescent lamps:
- 24V AC/DC 24MB, 1437, 1818
- 28V AC/DC 313, 757, 1819, 1820, 1829, 1843, 1864, 1873

Fig.	Color	Voltage	Current (mA)	Lumi. Intensity mcd	Wavelength (nm)	Digi-Key Part No.	Price Each 1	10	100	CML Part No.
15101 Series T 1 3/4 Midget Flange Based LED										
1	Red	12DC	14	330	630	L1105-ND	3.68	2.58	2.21	1510125UR3
	Yellow	12DC	14	280	587	L1106-ND	3.68	2.58	2.21	1510125UY3
	Blue	12DC	14	350	470	L1103-ND	6.55	4.59	3.93	1510125B3
	White Clear	12DC	14	700	—	L1107-ND	6.55	4.59	3.93	1510125W3
	White Diff.	12DC	14	350	—	L1108-ND	6.55	4.59	3.93	1510125W3D
	Red	24DC	14	330	630	L1111-ND	3.85	2.70	2.31	1510135UR3
	Green	24DC	14	910	525	L1110-ND	6.70	4.69	4.02	1510135UG3
	Yellow	24DC	14	280	587	L1112-ND	3.85	2.70	2.31	1510135UY3
	White Diff.	24DC	14	350	—	L1114-ND	6.70	4.69	4.02	1510135W3D
	Red	28DC	14	330	630	L1117-ND	3.85	2.70	2.31	1510145UR3
	Green	28DC	14	910	525	L1116-ND	6.70	4.69	4.02	1510145UG3
	Yellow	28DC	14	280	587	L1118-ND	3.85	2.70	2.31	1510145UY3
	Blue	28DC	14	350	470	L1115-ND	6.70	4.69	4.02	1510145B3
	White Clear	28DC	14	700	—	L1119-ND	6.70	4.69	4.02	1510145W3
	White Diff.	28DC	14	350	—	L1120-ND	6.70	4.69	4.02	1510145W3D
15121 Series T 1 3/4 Midget Groove Based LED										
2	Red	12DC	7/14	330	630	L1123-ND	4.15	2.91	2.49	1512125UR3
	Green	12DC	7/14	910	525	L1122-ND	7.03	4.92	4.22	1512125UG3
	Yellow	12DC	7/14	280	587	L1124-ND	4.15	2.91	2.49	1512125UY3
	Blue	12DC	7/14	350	470	L1121-ND	7.03	4.92	4.22	1512125B3
	White Clear	12DC	7/14	700	—	L1023-ND	7.03	4.92	4.22	1512125W3
	White Diff.	12DC	7/14	350	—	L1024-ND	7.03	4.92	4.22	1512125W3D
	Red	24DC	7/14	330	630	L1027-ND	4.28	3.00	2.57	1512135UR3
	Green	24DC	7/14	910	525	L1026-ND	7.13	4.99	4.28	1512135UG3
	Yellow	24DC	7/14	280	587	L1028-ND	4.28	3.00	2.57	1512135UY3
	Blue	24DC	7/14	350	470	L1025-ND	7.13	4.99	4.28	1512135B3
	White Clear	24DC	7/14	700	—	L1029-ND	7.13	4.99	4.28	1512135W3
	White Diff.	24DC	7/14	350	—	L1030-ND	7.13	4.99	4.28	1512135W3D
	Red	28DC	7/14	330	630	L1033-ND	4.28	3.00	2.57	1512145UR3
	Green	28DC	7/14	910	525	L1032-ND	7.13	4.99	4.28	1512145UG3
	Yellow	28DC	7/14	280	587	L1034-ND	4.28	3.00	2.57	1512145UY3
	Blue	28DC	7/14	350	470	L1031-ND	7.13	4.99	4.28	1512145B3
	White Clear	28DC	7/14	700	—	L1035-ND	7.13	4.99	4.28	1512145W3
	White Diff.	28DC	7/14	350	—	L1036-ND	7.13	4.99	4.28	1512145W3D
1511A Series T 1 3/4 Wedge Based LED										
3	Red	12AC/DC	6/12	280	630	L1039-ND	4.28	3.00	2.57	1511A25UR3
	Green	12AC/DC	6/12	780	525	L1038-ND	7.13	4.99	4.28	1511A25UG3
	Yellow	12AC/DC	6/12	240	587	L1040-ND	4.28	3.00	2.57	1511A25UY3
	Blue	12AC/DC	6/12	300	470	L1037-ND	7.13	4.99	4.28	1511A25B3
	White Clear	12AC/DC	6/12	600	—	L1041-ND	7.13	4.99	4.28	1511A25W3
	White Diff.	12AC/DC	6/12	300	—	L1042-ND	7.13	4.99	4.28	1511A25W3D
	Red	24AC/DC	5/10	230	630	L1045-ND	4.28	3.00	2.57	1511A35UR3
	Green	24AC/DC	5/10	650	525	L1044-ND	7.13	4.99	4.28	1511A35UG3
	Yellow	24AC/DC	5/10	200	587	L1046-ND	4.28	3.00	2.57	1511A35UY3
	Blue	24AC/DC	5/10	250	470	L1043-ND	7.13	4.99	4.28	1511A35B3
	White Clear	24AC/DC	5/10	500	—	L1047-ND	7.13	4.99	4.28	1511A35W3
	White Diff.	24AC/DC	5/10	250	—	L1048-ND	7.13	4.99	4.28	1511A35W3D
	Red	28AC/DC	5/10	230	630	L1051-ND	4.28	3.00	2.57	1511A45UR3
	Green	28AC/DC	5/10	650	525	L1050-ND	7.13	4.99	4.28	1511A45UG3
	Yellow	28AC/DC	5/10	200	587	L1052-ND	4.28	3.00	2.57	1511A45UY3
	Blue	28AC/DC	5/10	250	470	L1049-ND	7.13	4.99	4.28	1511A45B3
	White Clear	28AC/DC	5/10	500	—	L1053-ND	7.13	4.99	4.28	1511A45W3
	White Diff.	28AC/DC	5/10	250	—	L1054-ND	7.13	4.99	4.28	1511A45W3D
1511B Series T 3 1/4 Wedge Based LED										
4	Red	12AC/DC	7/14	330	630	L1057-ND	4.28	3.00	2.57	1511B25UR3
	Green	12AC/DC	7/14	910	525	L1056-ND	7.13	4.99	4.28	1511B25UG3
	Yellow	12AC/DC	7/14	280	587	L1058-ND	4.28	3.00	2.57	1511B25UY3
	Blue	12AC/DC	7/14	350	470	L1055-ND	7.13	4.99	4.28	1511B25B3
	White Clear	12AC/DC	7/14	700	—	L1059-ND	7.13	4.99	4.28	1511B25W3
	White Diff.	12AC/DC	7/14	350	—	L1060-ND	7.13	4.99	4.28	1511B25W3D
	Red	24AC/DC	7/14	330	630	L1063-ND	4.28	3.00	2.57	1511B35UR3
	Green	24AC/DC	7/14	910	525	L1062-ND	7.13	4.99	4.28	1511B35UG3
	Yellow	24AC/DC	7/14	280	587	L1064-ND	4.28	3.00	2.57	1511B35UY3
	Blue	24AC/DC	7/14	350	470	L1061-ND	7.13	4.99	4.28	1511B35B3
	White Clear	24AC/DC	7/14	700	—	L1065-ND	7.13	4.99	4.28	1511B35W3
	White Diff.	24AC/DC	7/14	350	—	L1066-ND	7.13	4.99	4.28	1511B35W3D
	Red	28AC/DC	7/14	330	630	L1069-ND	4.28	3.00	2.57	1511B45UR3
	Green	28AC/DC	7/14	910	525	L1068-ND	7.13	4.99	4.28	1511B45UG3
	Yellow	28AC/DC	7/14	280	587	L1070-ND	4.28	3.00	2.57	1511B45UY3
	Blue	28AC/DC	7/14	350	470	L1067-ND	7.13	4.99	4.28	1511B45B3
	White Clear	28AC/DC	7/14	700	—	L1071-ND	7.13	4.99	4.28	1511B45W3
	White Diff.	28AC/DC	7/14	350	—	L1072-ND	7.13	4.99	4.28	1511B45W3D
18602 Series T 3 1/4 Bayonet Based LED										
5	Red	12AC/DC	15	350	630	L1073-ND	4.70	3.29	2.82	18602250
	Green	12AC/DC	15	1000	525	L1074-ND	7.63	5.34	4.58	18602251
	Yellow	12AC/DC	15	300	587	L1075-ND	4.70	3.29	2.82	18602252
	Blue	12AC/DC	15	400	470	L1076-ND	7.63	5.34	4.58	18602257
	White Clear	12AC/DC	15	750	—	L1077-ND	7.63	5.34	4.58	1860225W3
	White Diff.	12AC/DC	15	375	—	L1078-ND	7.63	5.34	4.58	1860225W3D
	Green	24AC/DC	15	1000	525	L1080-ND	7.63	5.34	4.58	18602351
	Yellow	24AC/DC	15	300	587	L1081-ND	4.70	3.29	2.82	18602352
	Blue	24AC/DC	15	400	470	L1082-ND	7.63	5.34	4.58	18602357
	White Clear	24AC/DC	15	750	—	L1083-ND	7.63	5.34	4.58	1860235W3
	White Diff.	24AC/DC	15	375	—	L1084-ND	7.63	5.34	4.58	1860235W3D
	Red	28AC/DC	15	350	630	L1085-ND	4.70	3.29	2.82	18602450
	Green	28AC/DC	15	1000	525	L1086-ND	7.63	5.34	4.58	18602451
	Yellow	28AC/DC	15	300	587	L1087-ND	4.70	3.29	2.82	18602452
	Blue	28AC/DC	15	400	470	L1088-ND	7.63	5.34	4.58	18602457
	White Clear	28AC/DC	15	750	—	L1089-ND	7.63	5.34	4.58	1860245W3
	White Diff.	28AC/DC	15	375	—	L1090-ND	7.63	5.34	4.58	1860245W3D
18620 Series T 3 1/4 Bayonet Based Multi LED										
6	Red	24AC/DC	9/17	3 x 400	630	L1091-ND	9.68	6.78	5.81	18620350
	Green	24AC/DC	5/10	3 x 680	525	L1092-ND	18.15	12.71	10.89	18620351
	Yellow	24AC/DC	9/17	3 x 350	587	L1093-ND	9.68	6.78	5.81	18620352
	Blue	24AC/DC	9/17	3 x 450	470	L1094-ND	18.15	12.71	10.89	18620357
	White Clear	24AC/DC	9/17	3 x 850	—	L1095-ND	18.15	12.71	10.89	1862035W3
	White Diff.	24AC/DC	9/17	3 x 425	—	L1096-ND	18.15	12.71	10.89	1862035W3D
	Red	28AC/DC	9/17	3 x 400	630	L1097-ND	9.68	6.78	5.81	18620450
	Green	28AC/DC	5/10	3 x 680	525	L1098-ND	18.15	12.71	10.89	18620451
	Yellow	28AC/DC	9/17	3 x 350	587	L1099-ND	9.68	6.78	5.81	18620452
	Blue	28AC/DC	9/17	3 x 450	470	L1100-ND	18.15	12.71	10.89	18620457
	White Clear	28AC/DC	9/17	3 x 850	—	L1101-ND	18.15	12.71	10.89	1862045W3
	White Diff.	28AC/DC	9/17	3 x 425	—	L1102-ND	18.15	12.71	10.89	1862045W3D

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each			Tape & Reel*		Dialight Part No.
							1	25	100	Size	Pricing	
1	Yellow	580	6.0	2.2	20.0	350-1346-1-ND	.36	.30	.24	—	—	597-3401-407
2	Red	630	4.0	2.0	20.0	350-1347-1-ND	.57	.48	.38	—	—	597-3001-107
	Yellow	585	8.0	2.1	20.0	350-1349-1-ND	.63	.53	.42	—	—	597-3401-107
3	Red/Green	630/565	4.0/12.0	2.0/2.0	20.0	350-1350-1-ND	.82	.69	.55	—	—	597-7701-107
	Red/Yellow	630/585	4.0/8.0	2.0/2.1	20.0	350-1352-1-ND	.66	.55	.44	—	—	597-7731-107
4	AlGaAs Red	660	20.0	1.75	10.0	350-1354-1-ND	.69	.58	.47	—	—	597-3121-207
	Red	635	8.0	2.0	20.0	350-1356-1-ND	.57	.48	.38	—	—	597-3001-207
	White	—	135	3.5	20.0	350-1540-1-ND	3.09	2.58	2.06	2,000	1502.90/M	597-3901-207
5	Yellow/Green	585/565	4.0/9.4	2.0/2.0	10.0	350-1358-1-ND	.75	.63	.50	—	—	597-7721-207
	Red/Yellow	635/586	7.3/6.8	2.0/2.0	10.0	350-1359-1-ND	.85	.71	.57	2,000	412.30/M	597-7731-207
6	Green	567	11.0	2.1	20.0	350-1342-1-ND	1.40	1.17	.94	600	428.40	595-2301-007
	Yellow	588	9.0	2.2	20.0	350-1343-1-ND	1.40	1.17	.94	600	428.40	595-2401-007
7A	Red	638	23.9	1.8	10.0	350-1541-1-ND	2.70	2.25	1.80	360	623.70	592-2121-013
	Green	569	9.1	2.1	10.0	350-1542-1-ND	2.70	2.25	1.80	360	623.70	592-2222-013
7B	Red/Grn.-Red/Grn.	628/570	6.5/8	2.0/2.0	30.0	350-1544-1-ND	3.75	3.13	2.50	360	869.40	592-3030-013
	Red/Ylw.-Red/Ylw.	528/586	6.5/6.5	2.0/2.0	30.0	350-1546-1-ND	3.75	3.13	2.50	360	869.40	592-3232-013
	Red/Green/Blue	645/466/570	10/5/16	2/3.8/2	20.0	350-1547-1-ND	6.00	5.00	4.00	360	1386.00	592-3535-013
8	Red	628	5.0	2.0	10.0	350-1334-1-ND	1.34	1.12	.90	1,600	686.00/M	591-2001-013
	Yellow	590	5.0	2.0	10.0	350-1337-1-ND	1.34	1.12	.90	—	—	591-2401-013
	Blue	428	6.0	3.5	20.0	350-1535-1-ND	2.81	2.34	1.87	1,600	1369.90/M	591-2601-013
	White	—	19.23	3.5	20.0	350-1537-1-ND	3.27	2.73	2.19	1,600	1596.00/M	591-2801-013
9	Green	570	8.0	2.0	10.0	350-1360-1-ND	1.34	1.12	.90	—	—	591-2301-113
	Yellow	590	8.0	2.0	10.0	350-1362-1-ND	1.34	1.12	.90	1,600	651.70/M	591-2401-113
	Blue	428	6.0	3.5	20.0	350-1536-1-ND	2.81	2.34	1.87	1,600	1369.90/M	591-2601-113
	White	—	37.6	3.5	20.0	350-1538-1-ND	3.27	2.73	2.19	1,600	1596.00/M	591-2801-113
10	Yellow/Green	586/570	6.5/8.0	2.0/2.0	20.0	350-1339-1-ND	2.49	2.08	1.67	1,600	1274.00/M	591-3101-013
	Red/Yellow	628/586	6.5/6.5	2.0/2.0	20.0	350-1340-1-ND	2.04	1.70	1.36	1,600	1050.00/M	591-3201-013
						RoHS Compliant						
1	AlGaAs Red	660	17.0	1.7	20.0	350-1565-1-ND	.47	.40	.32	2,500	210.14/M	597-3111-407F
	Green	560	7.5	2.1	20.0	350-1566-1-ND	.47	.40	.32	2,500	210.14/M	597-3311-407F
	Yellow	580	6.0	2.2	20.0	350-1567-1-ND	.36	.30	.24	2,500	159.60/M	597-3401-407F
2	Red	630	4.0	2.0	20.0	350-1568-1-ND	.57	.48	.38	3,000	251.37/M	597-3001-107F
	Green	565	12.0	2.0	20.0	350-1569-1-ND	.57	.48	.38	3,000	251.37/M	597-3301-107F
	Yellow	585	8.0	2.1	20.0	350-1570-1-ND	.63	.53	.42	3,000	279.30/M	597-3401-107F
3	Red/Green	630/565	4.0/12.0	2.0/2.0	20.0	350-1571-1-ND	.82	.69	.55	3,000	363.09/M	597-7701-107F
	Yellow/Green	585/565	8.0/12.0	2.1/2.0	20.0	350-1572-1-ND	.89	.74	.59	3,000	405.65/M	597-7721-107F
	Red/Yellow	630/585	4.0/8.0	2.0/2.1	20.0	350-1573-1-ND	.66	.55	.44	3,000	292.60/M	597-7731-107F
4	Green	565	8.0	2.1	20.0	350-1574-1-ND	.57	.48	.38	2,000	251.37/M	597-3301-207F
	AlGaAs Red	660	20.0	1.75	10.0	350-1575-1-ND	.66	.55	.44	2,000	307.23/M	597-3121-207F
	Yellow	586	6.0	2.1	20.0	350-1576-1-ND	.57	.48	.38	2,000	251.37/M	597-3401-207F
	Red	635	8.0	2.0	20.0	350-1577-1-ND	.57	.48	.38	2,000	251.37/M	597-3001-207F
	Blue	428	11	3.5	20.0	350-1588-1-ND	1.92	1.61	1.29	2,000	852.53/M	597-3601-207F
	White	—	135	3.5	20.0	350-1589-1-ND	3.09	2.58	2.06	2,000	1368.57/M	597-3901-207F
5	Red/Green	635/565	6.0/9.4	2.0/2.0	10.0	350-1578-1-ND	.85	.71	.57	2,000	377.72/M	597-7701-207F
	Yellow/Green	585/565	4.0/9.4	2.0/2.0	10.0	350-1579-1-ND	.75	.63	.50	2,000	332.50/M	597-7721-207F
	Red/Yellow	635/586	7.3/6.8	2.0/2.0	10.0	350-1580-1-ND	.81	.68	.54	2,000	377.72/M	597-7731-207F
6	AlGaAs Red	640	25.0	1.7	20.0	350-1792-1-ND	1.40	1.17	.94	600	373.46	595-2101-007F
	Green	567	11.0	2.1	20.0	350-1793-1-ND	1.40	1.17	.94	600	373.46	595-2301-007F
	Yellow	588	9.0	2.2	20.0	350-1794-1-ND	1.40	1.17	.94	600	373.46	595-2401-007F
7A	Red	638	23.9	1.8	10.0	350-1855-1-ND	2.70	2.25	1.80	360	430.92	592-2121-013F
	Green	569	9.1	2.1	10.0	350-1856-1-ND	2.70	2.25	1.80	360	430.92	592-2222-013F
	Yellow	595	33.6	2.0	10.0	350-1857-1-ND	3.00	2.50	2.00	360	478.80	592-2727-013F
7B	Red/Grn.-Red/Grn.	628/570	6.5/8	2.0/2.0	30.0	350-1858-1-ND	3.75	3.13	2.50	360	598.50	592-3030-013F
	Ylw./Grn.-Ylw./Grn.	586/570	6.5/8	2.0/2.0	30.0	350-1859-1-ND	3.75	3.13	2.50	360	598.50	592-3131-013F
	Red/Ylw.-Red/Ylw.	528/586	6.5/6.5	2.0/2.0	30.0	350-1860-1-ND	3.75	3.13	2.50	360	598.50	592-3232-013F
	Red/Green/Blue	645/466/570	10/5/16	2/3.8/2	20.0	350-1861-1-ND	6.00	5.00	4.00	360	957.60	592-3535-013F
8	Red	628	5.0	2.0	10.0	350-1785-1-ND	1.33	1.11	.89	1,600	594.52/M	591-2001-013F
	AlGaAs Red	645	14.0	1.75	10.0	350-1786-1-ND	1.38	1.15	.92	1,600	622.44/M	591-2101-013F
	Green	570	4.0	2.0	10.0	350-1787-1-ND	1.34	1.12	.90	1,600	594.52/M	591-2301-013F
	Yellow	590	5.0	2.0	10.0	350-1788-1-ND	1.32	1.10	.88	1,600	594.52/M	591-2401-013F
	Blue	428	6.0	3.5	20.0	350-1584-1-ND	2.81	2.34	1.87	1,600	1243.55/M	591-2601-013F
	White	—	19.23	3.5	20.0	350-1586-1-ND	3.27	2.73	2.19	1,600	1451.04/M	591-2801-013F
9	Green	570	8.0	2.0	10.0	350-1581-1-ND	1.34	1.12	.90	1,600	594.52/M	591-2301-113F
	AlGaAs Red	645	24.0	1.75	10.0	350-1582-1-ND	1.39	1.16	.93	1,600	622.44/M	591-2101-113F
	Yellow	590	8.0	2.0	10.0	350-1583-1-ND	1.34	1.12	.90	1,600	594.52/M	591-2401-113F
	Blue	428	6.0	3.5	20.0	350-1585-1-ND	2.81	2.34	1.87	1,600	1243.55/M	591-2601-113F
	White	—	37.6	3.5	20.0	350-1587-1-ND	3.15	2.63	2.10	1,600	1451.04/M	591-2801-113F
10	Red/Green	628/570	6.5/8.0	2.0/2.0	20.0	350-1789-1-ND	2.49	2.08	1.67	1,600	1105.24/M	591-3001-013F
	Yellow/Green	586/570	6.5/8.0	2.0/2.0	20.0	350-1790-1-ND	2.49	2.08	1.67	1,600	1105.24/M	591-3101-013F
	Red/Yellow	628/58 6	6.5/6.5	2.0/2.0	20.0	350-1791-1-ND	2.04	1.70	1.36	1,600	904.40/M	591-3201-013F

* For Tape and Reel part number, change 1-ND to 2-ND

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each			Dialight Part No.
							1	25	100	
11	Green	565	12.6	2.1	20.0	350-1365-ND	.63	.53	.42	521-9210
13	White	—	1690	3.8	30.0	350-1514-ND	3.48	2.91	2.32	521-9948
15	Red	650	1.2	1.6	20.0	350-1137-ND	1.14	.95	.76	555-2001
	Yellow	583	2.0	2.2	20.0	350-1149-ND	1.17	.98	.78	555-2401
	Red	650	0.9	5.0	3.0	350-1143-ND	1.29	1.08	.86	555-2007
	Red	650	0.6	5.0	1.0	350-1145-ND	1.35	1.13	.90	555-2009
	Green	565	2.5	5.0	4.7	350-1148-ND	1.35	1.13	.90	555-2303
	Yellow	583	2.1	5.0	4.7	350-1150-ND	1.11	.93	.74	555-2403
	Red	650	0.9	24.0	3.0	350-1144-ND	1.29	1.08	.86	555-2008
16	Yellow	583	2.0	2.2	20.0	350-1162-ND	2.04	1.70	1.36	555-3401
	Red	650	1.9	5.0	6.0	350-1153-ND	1.86	1.55	1.24	555-3003

Fig. 1 1206

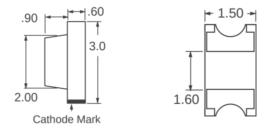

Fig. 2

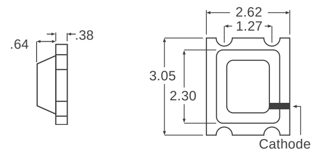

Fig. 3 Bi-Color

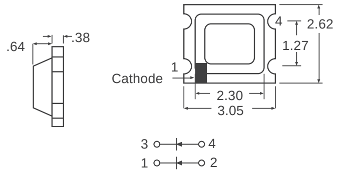

Fig. 4

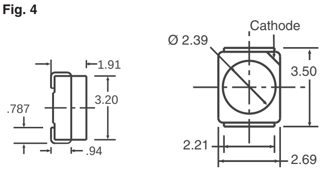

Fig. 5 Bi-Color

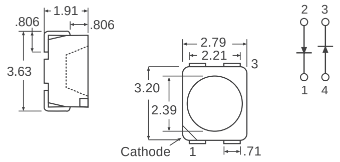

Fig. 6

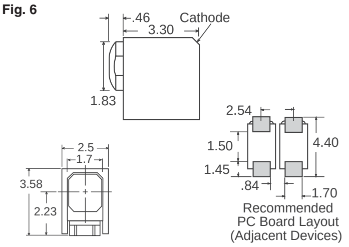

Fig. 7

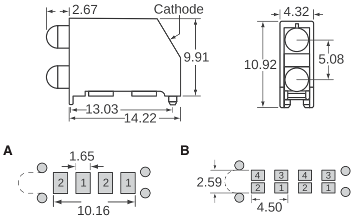

(Continued)

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each			Dialight Part No.
							1	25	100	
16	Green	565	2.5	5.0	4.7	350-1161-ND	2.00	1.67	1.34	555-3303
	Yellow	583	2.1	5.0	4.7	350-1163-ND	2.19	1.83	1.46	555-3403
	Red	650	0.9	24.0	3.0	350-1157-ND	1.86	1.55	1.24	555-3008
17	Green	565	2.5	5.0	4.7	350-1370-ND	5.28	4.40	3.52	555-4303
	Yellow	583	2.1	5.0	4.7	350-1371-ND	5.28	4.40	3.52	555-4403
18	Green	565	1.0	2.4	20.0	350-1378-ND	8.13	6.78	5.42	555-5301
	Yellow	583	2.0	2.2	20.0	350-1379-ND	8.13	6.78	5.42	555-5401
19	Red	635	12.6	2.0	20.0	350-1381-ND	2.88	2.40	1.92	570-0100-111
	Yellow	585	12.6	2.1	20.0	350-1382-ND	2.88	2.40	1.92	570-0100-333
	Red/Ylw./Grn.	635/585/565	12.6/12.6/8.7	2.0/2.1/2.1	20.0	350-1383-ND	2.88	2.40	1.92	570-0100-132
20	Yellow	585	6.3	2.1	10.0	350-1385-ND	.78	.65	.52	551-0307
	Yellow	583	8.0	5.0	10.0	350-1389-ND	1.08	.90	.72	551-0707
	Hi. Eff. Blue	428	12.0	3.5	20.0	350-1518-ND	3.24	2.70	2.16	551-0807
	Green	565	1.6	1.8	2.0	350-1391-ND	.92	.77	.62	551-1307
	Yellow	583	1.6	1.9	2.0	350-1392-ND	.92	.77	.62	551-1207
	Yellow/Green	585/565	4.3/6.3	2.1/2.1	10.0	350-1394-ND	1.86	1.55	1.24	551-3107
21	Blue	470	1000	3.6	30.0	350-1520-ND	4.82	3.75	3.21	551-4007
	White	—	1270	3.6	30.0	350-1521-ND	12.54	10.45	8.36	551-4107
	Green	525	3400	3.5	30.0	350-1522-ND	4.46	3.47	2.97	551-4207
22	Red	635	4.0	5.0	10.0	350-1090-ND	1.32	1.10	.88	551-0509
	Yellow	583	8.0	5.0	10.0	350-1094-ND	1.32	1.10	.88	551-0709
	Yellow	583	1.6	1.9	2.0	350-1098-ND	1.02	.85	.68	551-1209
	Yellow/Green	585/565	4.3/6.3	2.1	20.0	350-1106-ND	2.01	1.68	1.34	551-3109
23	Green	563	16.0	2.1	10.0	350-1083-ND	3.51	2.93	2.34	551-0207-004
	Yellow	585	6.3	2.1	10.0	350-1085-ND	3.51	2.93	2.34	551-0307-004
	Orange	600	6.5	2.2	10.0	350-1101-ND	6.87	5.73	4.58	551-2507-004
	Red	635	4.0	5.0	10.0	350-1089-ND	5.04	4.20	3.36	551-0507-004
	Green	565	8.0	5.0	12.0	350-1091-ND	4.44	3.70	2.96	551-0607-004
	Yellow	583	8.0	5.0	10.0	350-1093-ND	5.04	4.20	3.36	551-0707-004
	Red	635	1.8	1.8	2.0	350-1095-ND	3.65	3.04	2.43	551-1107-004
	Green	565	1.6	1.8	2.0	350-1099-ND	4.56	3.80	3.04	551-1307-004
	Yellow/Green	585/565	4.3/6.3	2.1	20.0	350-1105-ND	8.37	6.98	5.59	551-3107-004
24	Grn.(top)/Red(bot)	563/650	16.0/10.0	2.1/2.0	10.0	350-1396-ND	1.32	1.10	.88	553-0121
	Hi. Eff. Blue	428	12.0	3.5	20.0	350-1524-ND	6.00	5.00	4.00	553-0188
	Green	565	1.6	1.8	2.0	350-1402-ND	1.89	1.58	1.26	553-0222
	Red	635	4.0	5.0	10.0	350-1406-ND	2.04	1.70	1.36	553-0311
	Yellow	583	8.0	5.0	10.0	350-1407-ND	2.04	1.70	1.36	553-0333
25	Red	650	10.0	2.0	10.0	350-1122-ND	1.57	1.31	1.05	553-0111-300
	Red	635	1.8	1.8	2.0	350-1126-ND	1.89	1.58	1.26	553-0211-300
	Green	565	1.6	1.8	2.0	350-1127-ND	1.89	1.58	1.26	553-0222-300
	Yellow	583	1.6	1.9	2.0	350-1128-ND	1.89	1.58	1.26	553-0233-300
	Red	635	4.0	5.0	10.0	350-1129-ND	2.04	1.70	1.36	553-0311-300
	Green	565	8.0	5.0	12.0	350-1130-ND	2.04	1.70	1.36	553-0322-300
	Yellow	583	8.0	5.0	10.0	350-1131-ND	2.04	1.70	1.36	553-0333-300
	Green Clear	565	12.0	2.3	10.0	350-1135-ND	1.89	1.58	1.26	553-2222-300
26	Green	565	8.5	2.3	10.0	350-1331-ND	1.86	1.55	1.24	569-0112-200
	Blue	428	12.5	3.5	20.0	350-1534-ND	4.73	3.68	3.15	569-0119-900
27	Red	635	10.0	2.2	10.0	350-1326-ND	2.30	1.79	1.53	569-0101-111
	Yellow	583	10.0	2.2	10.0	350-1328-ND	2.30	1.80	1.54	569-0103-333
	Orange	600	6.5	2.2	10.0	350-1329-ND	2.30	1.79	1.53	569-0107-777
	Blue	428	12.5	3.5	20.0	350-1533-ND	18.59	14.46	12.39	569-0109-999
28	Red	635	1.8	1.8	2.0	350-1278-ND	3.18	2.65	2.12	564-0200-111
	Green	565	1.6	1.8	2.0	350-1280-ND	2.67	2.23	1.78	564-0200-222
	Red/Ylw./Grn.	635/583/565	4.0/8.0/8.0	5.0	10.0/10.0/12.0	350-1282-ND	2.70	2.25	1.80	564-0300-132
	Green	565	8.0	5.0	12.0	350-1283-ND	3.24	2.70	2.16	564-0300-222
30	Red	655	2.0	5.0	13.0	350-1015-ND	.99	.83	.66	550-0507
	Green	565	8.0	5.0	12.0	350-1019-ND	.99	.83	.66	550-0707
	Yellow	583	1.8	1.9	2.0	350-1031-ND	1.02	.85	.68	550-1207
	Yellow	590	8.0	2.0	10.0	350-1043-ND	.84	.70	.56	550-2307
	Orange	600	7.0	1.9	10.0	350-1051-ND	.84	.70	.56	550-2507
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1055-ND	1.65	1.38	1.10	550-3007
	Red	650	34.0	2.1	20.0	350-1061-ND	.66	.55	.44	550-5107
	Yellow	585	34.0	2.2	20.0	350-1069-ND	.66	.55	.44	550-5307
	Yellow Clear	583	140.0	2.2	20.0	350-1081-ND	1.08	.90	.72	550-5707
31	Green	565	12.3	2.1	20.0	350-1002-ND	.78	.65	.52	550-0205
	Yellow	585	12.3	2.1	20.0	350-1006-ND	.78	.65	.52	550-0305
	Green	565	8.0	5.0	12.0	350-1018-ND	1.08	.90	.72	550-0705
	Yellow	583	8.0	5.0	10.0	350-1022-ND	1.08	.90	.72	550-0805
	Yellow	583	1.8	1.9	2.0	350-1030-ND	1.02	.85	.68	550-1205

Fig. 8

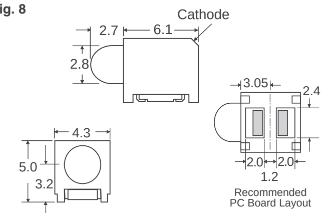

Fig. 9

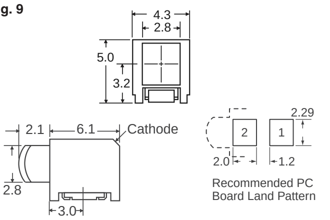

Fig. 10

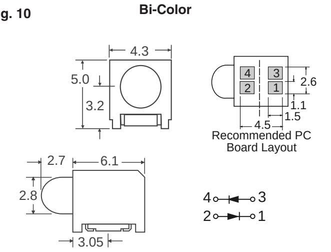

Fig. 11

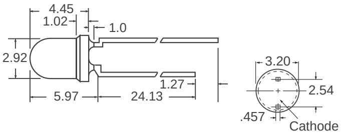

Fig. 12

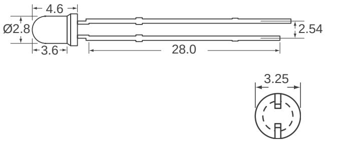

Fig. 13

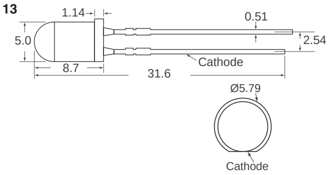

Fig. 14

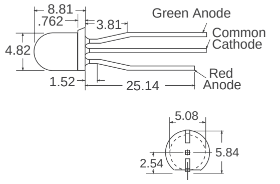

Fig. 15

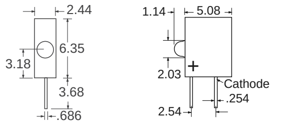

(Continued)

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each			Dialight Part No.
							1	25	100	
31	Green	565	1.8	1.8	2.0	350-1034-ND	1.02	.85	.68	550-1305
	Yellow	585	6.3	2.1	10.0	350-1042-ND	.77	.64	.52	550-2305
	Red	650	7.0	2.2	10.0	350-1046-ND	.84	.70	.56	550-2405
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1054-ND	1.65	1.38	1.10	550-3005
	Red	650	34.0	2.1	20.0	350-1060-ND	1.02	.85	.68	550-5105
	Green	563	34.0	2.2	20.0	350-1064-ND	1.02	.85	.68	550-5205
	Red Clear	635	125.0	2.2	20.0	350-1072-ND	1.08	.90	.72	550-5505
	Green Clear	565	120.0	2.3	20.0	350-1076-ND	1.08	.90	.72	550-5605
	Yellow Clear	583	140.0	2.2	20.0	350-1080-ND	1.08	.90	.72	550-5705
32	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1057-ND	2.28	1.91	1.53	550-3509
	Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1058-ND	2.28	1.90	1.52	550-3609
34	Green	565	12.3	2.1	20.0	350-1004-ND	3.60	3.00	2.40	550-0207-004
	Red	655	2.0	5.0	13.0	350-1016-ND	8.85	7.38	5.90	550-0507-004
	Green	565	8.0	5.0	12.0	350-1020-ND	4.53	3.78	3.02	550-0707-004
	Yellow	583	8.0	5.0	10.0	350-1024-ND	8.85	7.38	5.90	550-0807-004
	Red	635	2.0	1.8	2.0	350-1028-ND	4.23	3.53	2.82	550-1107-004
	Yellow	583	1.8	1.9	2.0	350-1032-ND	8.25	6.88	5.50	550-1207-004
	Yellow	585	6.3	2.1	10.0	350-1044-ND	3.72	3.10	2.49	550-2307-004
	Orange	600	7.0	1.9	10.0	350-1052-ND	7.26	6.05	4.84	550-2507-004
35	Green	563	10.0	2.1	10.0	350-1108-ND	1.23	1.03	.82	552-0222
	Green	565	8.0	5.0	12.0	350-1112-ND	2.04	1.70	1.36	552-0322
	Yellow	583	8.0	5.0	10.0	350-1113-ND	2.04	1.70	1.36	552-0333
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1114-ND	2.16	1.80	1.44	552-0711
	Yellow	585	34.0	2.2	20.0	350-1118-ND	1.89	1.58	1.26	552-0833
	Green	565	1.8	1.8	2.0	350-1120-ND	1.53	1.28	1.02	552-0922
	Yellow	583	1.8	1.9	2.0	350-1121-ND	1.89	1.58	1.26	552-0933
	Blue	470	1010	3.8	30.0	350-1523-ND	6.12	5.10	4.08	552-2388
37	Yellow	585	12.3	2.1	20.0	350-1005-ND	.96	.80	.64	550-0304
	Red	635	12.3	2.0	20.0	350-1009-ND	.96	.80	.64	550-0404
	Red	655	2.0	5.0	13.0	350-1013-ND	1.32	1.10	.88	550-0504
	Yellow	583	8.0	5.0	10.0	350-1021-ND	1.32	1.10	.88	550-0804
	Blue	470	520	4.0	20.0	350-1515-ND	3.06	2.55	2.04	550-1004
	Yellow	583	1.8	1.9	2.0	350-1029-ND	1.08	.90	.72	550-1204
	Yellow	590	8.0	2.0	10.0	350-1041-ND	1.11	.93	.74	550-2304
	Red	650	7.0	2.2	10.0	350-1045-ND	1.11	.93	.74	550-2404
	Orange	600	7.0	1.9	10.0	350-1049-ND	.84	.70	.56	550-2504
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1053-ND	2.16	1.80	1.44	550-3004
	Red	650	34.0	2.1	20.0	350-1059-ND	1.23	1.03	.82	550-5104
	Red Clear	635	125.0	2.2	20.0	350-1071-ND	1.29	1.08	.86	550-5504
	Yellow Clear	583	140.0	2.2	20.0	350-1079-ND	1.29	1.08	.86	550-5704
38	Red	635	8.0	5.0	10.0	350-1171-ND	.74	.58	.50	561-0104-100
	Blue	470	650	3.6	20.0	350-1531-ND	7.88	6.13	5.25	561-1002-100
	Green	565	1.8	1.8	2.0	350-1195-ND	.87	.73	.58	561-1301-100
	Yellow	583	1.8	1.9	2.0	350-1189-ND	.70	.55	.47	561-1201-100
	Red	635	7.0	2.2	10.0	350-1201-ND	.81	.68	.54	561-2101-100
	Yellow	590	10.0	2.4	20.0	350-1213-ND	.65	.51	.44	561-2301-100
	Green Tinted	565	70.0	2.3	10.0	350-1225-ND	.65	.51	.44	561-2501-100
	Yellow Tinted	583	50.0	2.2	10.0	350-1231-ND	.65	.51	.44	561-2601-100
	Green	563	34.0	2.2	20.0	350-1249-ND	.70	.55	.47	561-5201-100
	Yellow	585	34.0	2.2	20.0	350-1255-ND	.70	.55	.47	561-5301-100
	Red Clear	635	125.0	2.2	20.0	350-1261-ND	.74	.58	.50	561-5501-100
	Green Clear	565	120.0	2.3	20.0	350-1267-ND	.96	.80	.64	561-5601-100
	Yellow Clear	583	140.0	2.2	20.0	350-1273-ND	.74	.58	.50	561-5701-100
	Green	525	2200	3.5	20.0	350-1549-ND	4.03	3.14	2.69	561-5902-100
	White	—	1100	3.5	20.0	350-1548-ND	4.03	3.14	2.69	561-6002-100
39	Yellow	583	3.5	2.1	20.0	350-1288-ND	1.38	1.15	.92	566-0306
	Red	635	6.0	2.0	20.0	350-1164-ND	1.10	.86	.74	566-0406
40	Red	635	7.4	2.0	20.0	350-1165-ND	1.06	.83	.71	566-0407
42	Green	565	2.5	2.3	20.0	350-1234-ND	1.46	1.14	.98	561-4201-055
	Yellow	583	5.0	2.1	20.0	350-1236-ND	1.46	1.14	.98	561-4301-055
43	Grn./Ylw./Grn./Ylw.	565/583	8.5/10.0	2.1/2.2	10.0	350-1293-ND	3.54	2.95	2.36	568-0102-323
	Red	635	1.8	1.8	2.0	350-1299-ND	3.96	3.30	2.64	568-0201-111
	Green	565	1.6	1.8	2.0	350-1300-ND	3.96	3.30	2.64	568-0202-222
	Ylw./Grn./Ylw./Grn.	583/565	1.6	1.9/1.8	2.0	350-1302-ND	7.71	6.43	5.14	568-0203-232
	Grn./Ylw./Grn./Ylw.	565/583	8.0	5.0	12.0/10.0	350-1308-ND	8.25	6.88	5.50	568-0302-323
	Ylw./Grn./Ylw./Grn.	583/565	8.0	5.0	10.0/12.0	350-1309-ND	8.25	6.88	5.50	568-0303-232
	Bi-Color Red/Green	635/565	5.0	2.0	10.0	350-1313-ND	5.28	4.40	3.52	568-0701-111
	Bi-Color Ylw./Grn.	585/565	4.3/6.3	2.1	10.0	350-1314-ND	5.28	4.40	3.52	568-0704-444
44	Red	635	12.6	2.0	30.0	350-1550-ND	1.86	1.55	1.24	571-0111

Fig. 16

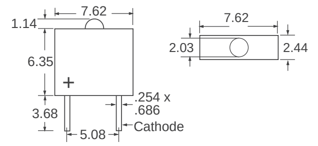

Fig. 17

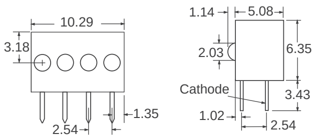

Fig. 18

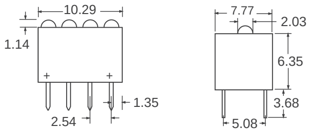

Fig. 19

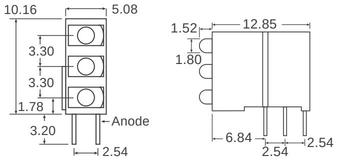

Fig. 20

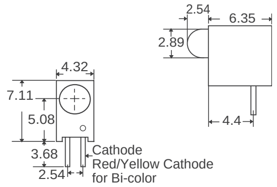

Fig. 21

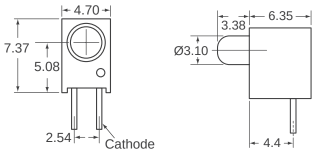

Fig. 22

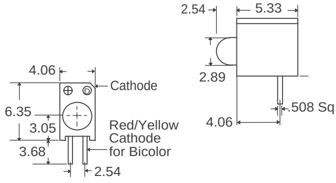

(Continued)

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
					RoHS Compliant					
11	Red	635	10.0	2.0	20.0	350-1555-ND	.47	.37	.32	521-9216F
	Orange	600	7	2.2	20.0	350-1556-ND	.31	.24	.21	521-9498F
	Green	565	12.6	2.1	20.0	350-1557-ND	.47	.37	.32	521-9210F
	Yellow	583	10.0	2.2	20.0	350-1558-ND	.47	.37	.32	521-9211F
	White	—	1010	3.6	30.0	350-1561-ND	2.01	1.57	1.34	521-9901F
	Blue	464	460	3.5	30.0	350-1562-ND	1.13	.88	.75	521-9918F
12	Blue	428	12.0	3.5	20.0	350-1560-ND	2.17	1.70	1.45	521-9831F
13	Blue	470	1010	3.8	30.0	350-1563-ND	1.13	.88	.75	521-9946F
	White	—	1690	3.8	30.0	350-1564-ND	2.36	1.84	1.58	521-9948
14	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1559-ND	1.18	.92	.79	521-9450F
15	Red	650	1.2	1.6	20.0	350-1711-ND	.79	.62	.53	555-2001F
	Green	565	1.0	2.4	20.0	350-1716-ND	.81	.63	.54	555-2301F
	Yellow	583	2.0	2.2	20.0	350-1718-ND	.81	.63	.54	555-2401F
	Red	650	1.9	5.0	6.0	350-1712-ND	.88	.69	.59	555-2003F
	Red	650	0.9	5.0	3.0	350-1713-ND	.88	.69	.59	555-2007F
	Red	650	0.6	5.0	1.0	350-1715-ND	.92	.72	.62	555-2009F
	Green	565	2.5	5.0	4.7	350-1717-ND	.92	.72	.62	555-2303F
	Yellow	583	2.1	5.0	4.7	350-1719-ND	.77	.60	.51	555-2403F
	Red	650	0.9	24.0	3.0	350-1714-ND	.88	.69	.59	555-2008F
16	Red	650	1.2	1.6	20.0	350-1720-ND	1.01	.79	.68	555-3001F
	Green	565	1.0	2.4	20.0	350-1725-ND	1.38	1.08	.93	555-3301F
	Yellow	583	2.0	2.2	20.0	350-1727-ND	1.38	1.08	.93	555-3401F
	Red	650	1.9	5.0	6.0	350-1721-ND	1.27	.99	.85	555-3003F
	Red	650	0.9	5.0	3.0	350-1722-ND	1.27	.99	.85	555-3007F
	Red	650	0.6	5.0	1.0	350-1724-ND	1.34	1.05	.90	555-3009F
	Green	565	2.5	5.0	4.7	350-1726-ND	1.50	1.17	1.00	555-3303F
	Yellow	583	2.1	5.0	4.7	350-1728-ND	1.50	1.17	1.00	555-3403F
	Red	650	0.9	24.0	3.0	350-1723-ND	1.27	.99	.85	555-3008F
17	Red	650	1.2	1.6	20.0	350-1799-ND	3.11	2.42	2.07	555-4001F
	Green	565	1.0	2.4	20.0	350-1800-ND	3.60	2.80	2.40	555-4301F
	Yellow	583	2.0	2.2	20.0	350-1801-ND	3.15	2.45	2.10	555-4401F
	Red	650	1.9	5.0	6.0	350-1795-ND	3.51	2.73	2.34	555-4003F
	Red	650	0.9	5.0	3.0	350-1796-ND	3.51	2.73	2.34	555-4007F
	Green	565	2.5	5.0	4.7	350-1797-ND	3.60	2.80	2.40	555-4303F
	Yellow	583	2.1	5.0	4.7	350-1798-ND	3.60	2.80	2.40	555-4403F
18	Red	650	1.9	5.0	6.0	350-1802-ND	5.33	4.15	3.56	555-5003F
	Red	650	1.2	1.6	20.0	350-1803-ND	4.68	3.65	3.13	555-5001F
	Green	565	1.0	2.4	20.0	350-1804-ND	5.54	4.31	3.69	555-5301F
	Yellow	583	2.0	2.2	20.0	350-1805-ND	5.54	4.31	3.69	555-5401F
19	Green	565	8.7	2.1	20.0	350-1806-ND	1.96	1.53	1.31	570-0100-222F
	Red	635	12.6	2.0	20.0	350-1807-ND	1.96	1.53	1.31	570-0100-111F
	Yellow	585	12.6	2.1	20.0	350-1808-ND	1.96	1.53	1.31	570-0100-333F
	Red/Ylw./Grn.	635/585/565	12.6/12.6/8.7	2.0/2.1/2.1	20.0	350-1809-ND	1.96	1.53	1.31	570-0100-132F
20	Green	563	16.0	2.1	10.0	350-1810-ND	.53	.42	.36	551-0207F
	Yellow	585	6.3	2.1	10.0	350-1811-ND	.53	.42	.36	551-0307F
	Red	650	10.0	2.0	10.0	350-1812-ND	.53	.42	.36	551-0407F
	Green	565	8.0	5.0	12.0	350-1813-ND	.81	.63	.54	551-0607F
	Red	635	4.0	5.0	10.0	350-1814-ND	.81	.63	.54	551-0507F
	Yellow	583	8.0	5.0	10.0	350-1815-ND	.81	.63	.54	551-0707F
	Hi. Eff. Blue	428	12.0	3.5	20.0	350-1844-ND	2.21	1.73	1.48	551-0807F
	Red	635	1.8	1.8	2.0	350-1816-ND	.69	.54	.47	551-1107F
	Green	565	1.6	1.8	2.0	350-1817-ND	.69	.54	.47	551-1307F
	Yellow	583	1.6	1.9	2.0	350-1818-ND	.69	.54	.47	551-1207F
	Red/Green	635/565	5.0	2.0	10.0	350-1819-ND	1.27	.99	.85	551-3007F
	Yellow/Green	585/565	4.3/6.3	2.1/2.1	10.0	350-1820-ND	1.27	.99	.85	551-3107F
21	Blue	470	1000	3.6	30.0	350-1846-ND	4.38	3.41	2.93	551-4007F
	White	—	1270	3.6	30.0	350-1847-ND	8.55	6.65	5.70	551-4107F
	Green	525	3400	3.5	30.0	350-1848-ND	4.05	3.15	2.70	551-4207F
22	Green	563	16.0	2.1	10.0	350-1665-ND	.62	.49	.42	551-0209F
	Yellow	585	6.3	2.1	10.0	350-1667-ND	.62	.49	.42	551-0309F
	Red	650	10.0	2.0	10.0	350-1669-ND	.62	.49	.42	551-0409F
	Orange	600	6.5	2.2	10.0	350-1682-ND	.69	.54	.47	551-2509F
	Red	635	4.0	5.0	10.0	350-1671-ND	.90	.70	.60	551-0509F
	Green	565	8.0	5.0	12.0	350-1673-ND	.90	.70	.60	551-0609F
	Yellow	583	8.0	5.0	10.0	350-1675-ND	.90	.70	.60	551-0709F
	Hi. Eff. Blue	428	12.0	3.5	20.0	350-1845-ND	2.21	1.73	1.48	551-0809F
	Red	635	1.8	1.8	2.0	350-1677-ND	.69	.54	.47	551-1109F
	Yellow	583	1.6	1.9	2.0	350-1679-ND	.69	.54	.47	551-1209F
	Green	565	1.6	1.8	2.0	350-1681-ND	.69	.54	.47	551-1309F
	Red/Green	635/565	5.0	2.0	10.0	350-1684-ND	1.18	.92	.79	551-3009F
	Yellow/Green	585/565	4.3/6.3	2.1	20.0	350-1685-ND	1.36	1.06	.91	551-3109F
23	Green	563	16.0	2.1	10.0	350-1664-ND	2.40	1.87	1.60	551-0207-004F
	Yellow	585	6.3	2.1	10.0	350-1666-ND	2.40	1.87	1.60	551-0307-004F
	Red	650	10.0	2.0	10.0	350-1668-ND	2.11	1.64	1.41	551-0407-004F
	Red	635	4.0	5.0	10.0	350-1670-ND	3.44	2.68	2.30	551-0507-004F
	Green	565	8.0	5.0	12.0	350-1672-ND	3.02	2.35	2.02	551-0607-004F
	Yellow	583	8.0	5.0	10.0	350-1674-ND	3.44	2.68	2.30	551-0707-004F
	Red	635	1.8	1.8	2.0	350-1676-ND	2.73	2.13	1.83	551-1107-004F
	Yellow	583	1.6	1.9	2.0	350-1678-ND	3.11	2.43	2.08	551-1207-004F
	Green	565	1.6	1.8	2.0	350-1680-ND	3.11	2.43	2.08	551-1307-004F
	Red/Green	635/565	5.0	2.0	10.0	350-1683-ND	5.70	4.44	3.80	551-3007-004F
24	Red	650	10.0	2.0	10.0	350-1821-ND	1.18	.92	.79	553-0111F
	Green	563	16.0	2.1	10.0	350-1825-ND	1.18	.92	.79	553-0122F
	Yellow	585	6.3	2.1	10.0	350-1826-ND	1.18	.92	.79	553-0133F
	Grn.(top)/Red(bot)	563/650	16.0/10.0	2.1/2.0	10.0	350-1822-ND	.99	.77	.66	553-0121F
	Grn.(top)/Ylw.(bot)	563/585	16.0/6.3	2.1/2.1	10.0	350-1823-ND	1.18	.92	.79	553-0123F
	Ylw.(top)/Grn.(bot)	585/563	6.3/16.0	2.1/2.1	10.0	350-1824-ND	1.18	.92	.79	553-0132F
	Hi. Eff. Blue	428	12.0	3.5	20.0	350-1850-ND	4.08	3.18	2.73	553-0188F

Fig. 23

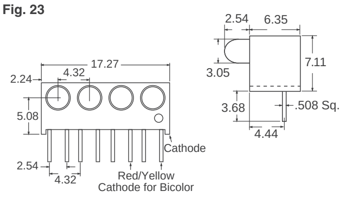

Fig. 24

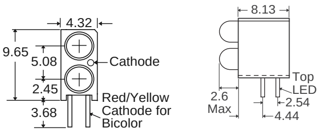

Fig. 25

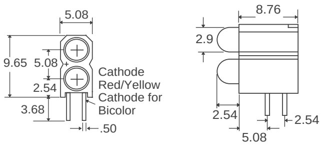

Fig. 26

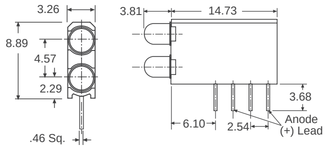

Fig. 27

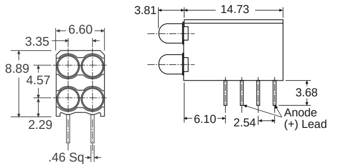

Fig. 28

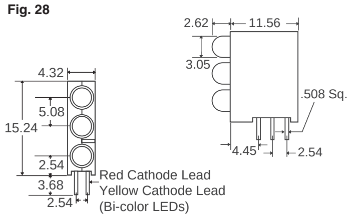

Fig. 29

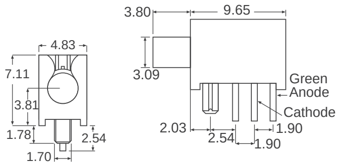

(Continued)

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each			Dialight Part No.
							1	25	100	
24	Red	635	1.8	1.8	2.0	350-1827-ND	1.29	1.01	.87	553-0211F
	Green	565	1.6	1.8	2.0	350-1828-ND	1.29	1.01	.87	553-0222F
	Yellow	583	1.6	1.9	2.0	350-1830-ND	1.29	1.01	.87	553-0233F
	Grn.(top)/Ylw.(bot)	565/583	1.6/1.6	1.8/1.9	2.0	350-1829-ND	1.29	1.01	.87	553-0223F
	Green	565	8.0	5.0	12.0	350-1831-ND	1.15	.90	.77	553-0322F
	Red	635	4.0	5.0	10.0	350-1832-ND	1.38	1.08	.93	553-0311F
	Yellow	583	8.0	5.0	10.0	350-1833-ND	1.38	1.08	.93	553-0333F
	2x Red/Green	635/565	5.0	2.0	10.0	350-1834-ND	1.73	1.35	1.16	553-0711F
	2x Ylw./Green	585/565	4.3/6.3	2.1/2.1	10.0	350-1835-ND	1.73	1.35	1.16	553-0744F
25	Red	650	10.0	2.0	10.0	350-1698-ND	1.18	.92	.79	553-0111-300F
	Green	563	16.0	2.1	10.0	350-1699-ND	1.18	.92	.79	553-0122-300F
	Yellow	585	6.3	2.1	10.0	350-1700-ND	1.18	.92	.79	553-0133-300F
	Orange	600	6.5	2.2	10.0	350-1701-ND	2.30	1.79	1.53	553-0177-300F
	Red	635	1.8	1.8	2.0	350-1702-ND	1.29	1.01	.87	553-0211-300F
	Green	565	1.6	1.8	2.0	350-1703-ND	1.29	1.01	.87	553-0222-300F
	Yellow	583	1.6	1.9	2.0	350-1704-ND	1.29	1.01	.87	553-0233-300F
	Red	635	4.0	5.0	10.0	350-1705-ND	1.38	1.08	.93	553-0311-300F
	Green	565	8.0	5.0	12.0	350-1706-ND	1.38	1.08	.93	553-0322-300F
	Yellow	583	8.0	5.0	10.0	350-1707-ND	1.38	1.08	.93	553-0333-300F
	2x Red/Green	635/565	5.0	2.0	10.0	350-1708-ND	1.73	1.35	1.16	553-0711-300F
	2x Yellow/Green	585/565	4.3/6.3	2.1	10.0	350-1709-ND	1.55	1.21	1.04	553-0744-300F
	Green Clear	565	12.0	2.3	10.0	350-1710-ND	1.29	1.01	.87	553-2222-300F
26	Red	635	10.0	2.2	10.0	350-1782-ND	1.35	1.05	.90	569-0111-100F
	Green	565	8.5	2.3	10.0	350-1783-ND	1.27	.99	.85	569-0112-200F
	Yellow	583	10.0	2.2	10.0	350-1784-ND	1.35	1.05	.90	569-0113-300F
	Blue	428	12.5	3.5	20.0	350-1854-ND	4.29	3.34	2.87	569-0119-900F
27	Red	635	10.0	2.2	10.0	350-1778-ND	2.08	1.62	1.39	569-0101-111F
	Green	565	8.5	2.3	10.0	350-1779-ND	1.96	1.53	1.31	569-0102-222F
	Yellow	583	10.0	2.2	10.0	350-1780-ND	2.08	1.62	1.39	569-0103-333F
	Orange	600	6.5	2.2	10.0	350-1781-ND	2.08	1.62	1.39	569-0107-777F
	Blue	428	12.5	3.5	20.0	350-1853-ND	16.89	13.14	11.26	569-0109-999F
28	Red	635	10.0	2.2	10.0	350-1750-ND	1.96	1.53	1.31	564-0100-111F
	Red/Ylw./Grn.	635/583/565	10.0/10.0/8.5	2.2/2.2/2.3	10.0	350-1751-ND	1.96	1.53	1.31	564-0100-132F
	Green	565	8.5	2.3	10.0	350-1752-ND	1.96	1.53	1.31	564-0100-222F
	Orange	600	6.5	2.2	10.0	350-1753-ND	1.96	1.53	1.31	564-0100-777F
	Hi. Eff. Blue	428	12.0	3.5	20.0	350-1852-ND	12.02	9.35	8.01	564-0100-999F
	Red	635	1.8	1.8	2.0	350-1754-ND	2.17	1.69	1.45	564-0200-111F
	Red/Ylw./Grn.	635/583/565	1.8/1.6/1.6	1.8/1.9/1.8	2.0	350-1755-ND	2.17	1.69	1.45	564-0200-132F
	Green	565	1.6	1.8	2.0	350-1756-ND	1.82	1.42	1.22	564-0200-222F
	Red	635	4.0	5.0	10.0	350-1757-ND	2.21	1.73	1.48	564-0300-111F
	Red/Ylw./Grn.	635/583/565	4.0/8.0/8.0	5.0	10.0/10.0/12.0	350-1758-ND	1.85	1.44	1.23	564-0300-132F
	Green	565	8.0	5.0	12.0	350-1759-ND	2.21	1.73	1.48	564-0300-222F
	3x Red/Green	635/565	5.0	2.0	10.0	350-1760-ND	2.88	2.25	1.93	564-0700-111F
	3x Yellow/Green	585/565	4.3/6.3	2.1	20.0	350-1761-ND	2.88	2.25	1.93	564-0700-444F
29	Red/Green	630/560	4.0	2.0/2.1	20.0	350-1836-ND	1.44	1.13	.97	551-3508F
30	Green	565	12.3	2.1	20.0	350-1599-ND	.53	.42	.36	550-0207F
	Yellow	585	12.3	2.1	20.0	350-1603-ND	.43	.34	.29	550-0307F
	Red	635	12.3	2.0	20.0	350-1606-ND	.53	.42	.36	550-0407F
	Red	655	2.0	5.0	13.0	350-1610-ND	.68	.53	.45	550-0507F
	Green	565	8.0	5.0	12.0	350-1613-ND	.68	.53	.45	550-0707F
	Yellow	583	8.0	5.0	10.0	350-1617-ND	.74	.58	.50	550-0807F
	Blue	470	1010	3.8	30.0	350-1843-ND	2.00	1.56	1.34	550-1007F
	Red	635	2.0	1.8	2.0	350-1620-ND	.63	.49	.42	550-1107F
	Yellow	583	1.8	1.9	2.0	350-1624-ND	.69	.54	.47	550-1207F
	Green	565	1.8	1.8	2.0	350-1627-ND	.69	.54	.47	550-1307F
	Green	563	10.0	2.1	10.0	350-1630-ND	.58	.45	.39	550-2207F
	Yellow	590	8.0	2.0	10.0	350-1633-ND	.58	.45	.39	550-2307F
	Red	650	7.0	2.2	10.0	350-1636-ND	.58	.45	.39	550-2407F
	Orange	600	7.0	1.9	10.0	350-1640-ND	.58	.45	.39	550-2507F
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1643-ND	1.13	.88	.75	550-3007F
	Red	650	34.0	2.1	20.0	350-1648-ND	.45	.35	.30	550-5107F
	Green	563	34.0	2.2	20.0	350-1651-ND	.45	.35	.30	550-5207F
	Yellow	585	34.0	2.2	20.0	350-1654-ND	.45	.35	.30	550-5307F
	Red Clear	635	125.0	2.2	20.0	350-1657-ND	.74	.58	.50	550-5507F
	Green Clear	565	120.0	2.3	20.0	350-1660-ND	.74	.58	.50	550-5607F
	Yellow Clear	583	140.0	2.2	20.0	350-1663-ND	.74	.58	.50	550-5707F
31	Green	565	12.3	2.1	20.0	350-1598-ND	.53	.42	.36	550-0205F
	Yellow	585	12.3	2.1	20.0	350-1602-ND	.53	.42	.36	550-0305F
	Red	635	12.3	2.0	20.0	350-1605-ND	.53	.42	.36	550-0405F
	Red	655	2.0	5.0	13.0	350-1609-ND	.74	.58	.50	550-0505F
	Green	565	8.0	5.0	12.0	350-1612-ND	.74	.58	.50	550-0705F
	Yellow	583	8.0	5.0	10.0	350-1616-ND	.74	.58	.50	550-0805F
	Blue	470	520	4.0	20.0	350-1842-ND	2.00	1.56	1.34	550-1005F
	Red	635	2.0	1.8	2.0	350-1619-ND	.69	.54	.47	550-1105F
	Yellow	583	1.8	1.9	2.0	350-1623-ND	.69	.54	.47	550-1205F
	Green	565	1.8	1.8	2.0	350-1626-ND	.69	.54	.47	550-1305F
	Green	563	10.0	2.1	10.0	350-1629-ND	.58	.45	.39	550-2205F
	Yellow	585	6.3	2.1	10.0	350-1632-ND	.58	.45	.39	550-2305F
	Red	650	7.0	2.2	10.0	350-1635-ND	.58	.45	.39	550-2405F
	Orange	600	7.0	1.9	10.0	350-1639-ND	.58	.45	.39	550-2505F
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1642-ND	1.13	.88	.75	550-3005F
	Red	650	34.0	2.1	20.0	350-1647-ND	.69	.54	.47	550-5105F
	Green	563	34.0	2.2	20.0	350-1650-ND	.69	.54	.47	550-5205F
	Yellow	585	34.0	2.2	20.0	350-1653-ND	.69	.54	.47	550-5305F
	Red Clear	635	125.0	2.2	20.0	350-1656-ND	.74	.58	.50	550-5505F
	Green Clear	565	120.0	2.3	20.0	350-1659-ND	.74	.58	.50	550-5605F
	Yellow Clear	583	140.0	2.2	20.0	350-1662-ND	.74	.58	.50	550-5705F
32	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1644-ND	1.55	1.21	1.04	550-3509F
	Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1645-ND	1.55	1.21	1.04	550-3609F
33	Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1837-ND	1.55	1.21	1.04	550-3505F
	Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1838-ND	1.55	1.21	1.04	550-3605F

Fig. 30

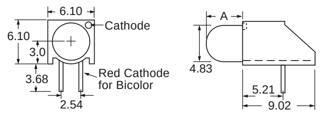

Dimension A: 3.43 for 550-0207F ~ 550-0407[F], 4.90 for 550-1007[F], 5.0 for all others

Fig. 31

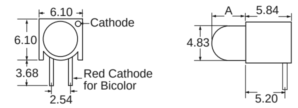

Dim. A: 3.43 for 550-0205[F] ~ 550-0405[F], 5.0 for all others

Fig. 32

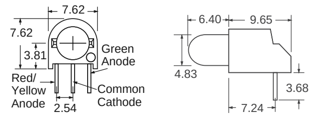

Fig. 33

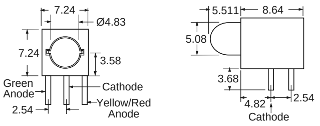

Fig. 34

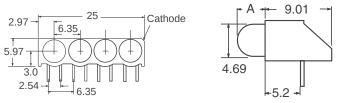

Dim. A: 3.4 for 550-0207-004[F] ~ 550-0407-004[F], 4.95 for all others

Fig. 35

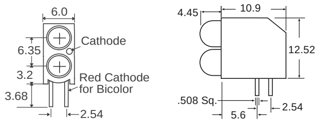

Fig. 36

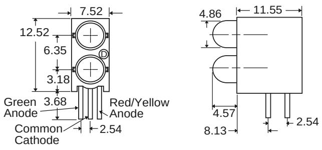

(Continued)

Dialight LEDs *(Cont.)*

Fig.	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
34	Green	565	12.3	2.1	20.0	350-1600-ND	2.45	1.91	1.64	550-0207-004F
	Red	635	12.3	2.0	20.0	350-1607-ND	2.45	1.91	1.64	550-0407-004F
	Green	565	8.0	5.0	12.0	350-1614-ND	3.09	2.41	2.07	550-0707-004F
	Red	635	2.0	1.8	2.0	350-1621-ND	2.88	2.25	1.93	550-1107-004F
	Red	650	7.0	2.2	10.0	350-1637-ND	2.54	1.98	1.70	550-2407-004F
35	Red	650	7.0	2.2	10.0	350-1686-ND	.92	.72	.62	552-0211F
	Green	563	10.0	2.1	10.0	350-1687-ND	.92	.72	.62	552-0222F
	Yellow	590	8.0	2.0	10.0	350-1688-ND	1.18	.92	.79	552-0233F
	Green	565	8.0	5.0	12.0	350-1689-ND	1.38	1.08	.93	552-0322F
	Yellow	583	8.0	5.0	10.0	350-1690-ND	1.38	1.08	.93	552-0333F
	Yellow/Green	585/565	8.7/8.7	2.1/2.1	20.0	350-1691-ND	1.73	1.35	1.16	552-0744F
	Red	650	34.0	2.1	20.0	350-1692-ND	1.29	1.01	.87	552-0811F
	Green	563	34.0	2.2	20.0	350-1693-ND	1.29	1.01	.87	552-0822F
	Yellow	585	34.0	2.2	20.0	350-1694-ND	1.29	1.01	.87	552-0833F
	Red	635	2.0	1.8	2.0	350-1695-ND	1.04	.81	.69	552-0911F
	Green	565	1.8	1.8	2.0	350-1696-ND	1.04	.81	.69	552-0922F
	Yellow	583	1.8	1.9	2.0	350-1697-ND	1.29	1.01	.87	552-0933F
	Blue	470	1010	3.8	30.0	350-1849-ND	4.18	3.25	2.79	552-2388F
36	2x Red/Green	635/565	5.0/8.0	2.1/2.3	10.0	350-1839-ND	2.88	2.25	1.93	552-3511F
	2x Yellow/Green	583/565	5.0/8.0	2.1/2.1	10.0	350-1840-ND	2.88	2.25	1.93	552-3544F
37	Green	565	12.3	2.1	20.0	350-1597-ND	.65	.51	.44	550-0204F
	Yellow	585	12.3	2.1	20.0	350-1601-ND	.65	.51	.44	550-0304F
	Red	635	12.3	2.0	20.0	350-1604-ND	.65	.51	.44	550-0404F
	Red	655	2.0	5.0	13.0	350-1608-ND	.90	.70	.60	550-0504F
	Green	565	8.0	5.0	12.0	350-1611-ND	.90	.70	.60	550-0704F
	Yellow	583	8.0	5.0	10.0	350-1615-ND	.90	.70	.60	550-0804F
	Blue	470	520	4.0	20.0	350-1841-ND	2.09	1.63	1.40	550-1004F
	Red	635	2.0	1.8	2.0	350-1618-ND	.74	.58	.50	550-1104F
	Yellow	583	1.8	1.9	2.0	350-1622-ND	.74	.58	.50	550-1204F
	Green	565	1.8	1.8	2.0	350-1625-ND	.74	.58	.50	550-1304F
	Green	563	10.0	2.1	10.0	350-1628-ND	.76	.60	.51	550-2204F
	Yellow	590	8.0	2.0	10.0	350-1631-ND	.76	.60	.51	550-2304F
	Red	650	7.0	2.2	10.0	350-1634-ND	.76	.60	.51	550-2404F
	Orange	600	7.0	1.9	10.0	350-1638-ND	.58	.45	.39	550-2504F
	Red/Green	660/565	90/40	1.8/2.1	20.0	350-1641-ND	1.48	1.15	.99	550-3004F
	Red	650	34.0	2.1	20.0	350-1646-ND	.83	.65	.56	550-5104F
	Green	563	34.0	2.2	20.0	350-1649-ND	.83	.65	.56	550-5204F
	Yellow	585	34.0	2.2	20.0	350-1652-ND	.83	.65	.56	550-5304F
	Red Clear	635	125.0	2.2	20.0	350-1655-ND	.88	.69	.59	550-5504F
	Green Clear	565	120.0	2.3	20.0	350-1658-ND	.88	.69	.59	550-5604F
	Yellow Clear	583	140.0	2.2	20.0	350-1661-ND	.88	.69	.59	550-5704F
38	Red	635	8.0	5.0	10.0	350-1731-ND	.68	.54	.46	561-0104-100F
	Blue	470	650	3.6	20.0	350-1851-ND	7.16	5.57	4.77	561-1002-100F
	Red	635	2.0	1.8	2.0	350-1732-ND	.60	.47	.41	561-1101-100F
	Green	565	1.8	1.8	2.0	350-1734-ND	.60	.47	.41	561-1301-100F
	Yellow	583	1.8	1.9	2.0	350-1733-ND	.64	.50	.43	561-1201-100F
	Red	635	7.0	2.2	10.0	350-1735-ND	.55	.44	.37	561-2101-100F
	Green	565	32.0	2.0	20.0	350-1736-ND	1.24	.97	.83	561-2201-100F
	Yellow	590	10.0	2.4	20.0	350-1737-ND	.59	.46	.40	561-2301-100F
	Red Tinted	635	60.0	2.2	10.0	350-1738-ND	.59	.46	.40	561-2401-100F
	Green Tinted	565	70.0	2.3	10.0	350-1739-ND	.59	.46	.40	561-2501-100F
	Yellow Tinted	583	50.0	2.2	10.0	350-1740-ND	.59	.46	.40	561-2601-100F
	Red	650	34.0	2.1	20.0	350-1744-ND	.64	.50	.43	561-5101-100F
	Green	563	34.0	2.2	20.0	350-1745-ND	.64	.50	.43	561-5201-100F
	Yellow	585	34.0	2.2	20.0	350-1746-ND	.64	.50	.43	561-5301-100F
	Red Clear	635	125.0	2.2	20.0	350-1747-ND	.68	.54	.46	561-5501-100F
	Green Clear	565	120.0	2.3	20.0	350-1748-ND	.65	.51	.44	561-5601-100F
	Yellow Clear	583	140.0	2.2	20.0	350-1749-ND	.68	.54	.46	561-5701-100F
	Green	525	2200	3.5	20.0	350-1863-ND	3.67	2.86	2.45	561-5902-100F
	White	—	1100	3.5	20.0	350-1862-ND	3.67	2.86	2.45	561-6002-100F
39	Green	565	4.0	2.2	20.0	350-1762-ND	.95	.74	.63	566-0206F
	Yellow	583	3.5	2.1	20.0	350-1764-ND	.95	.74	.63	566-0306F
	Red	635	6.0	2.0	20.0	350-1729-ND	1.00	.78	.67	566-0406F
40	Green	565	4.0	2.2	20.0	350-1763-ND	.90	.70	.60	566-0207F
	Yellow	583	3.5	2.1	20.0	350-1765-ND	.90	.70	.60	566-0307F
	Red	635	7.4	2.0	20.0	350-1730-ND	.95	.75	.64	566-0407F
41	Red/Green	635/565	3.5/4.0	1.9/2.1	20.0	350-1766-ND	1.80	1.40	1.20	566-3507F
42	Red	635	5.0	1.9	20.0	350-1741-ND	1.32	1.03	.89	561-4101-055F
	Green	565	2.5	2.3	20.0	350-1742-ND	1.32	1.03	.89	561-4201-055F
	Yellow	583	5.0	2.1	20.0	350-1743-ND	1.32	1.03	.89	561-4301-055F
43	Red	635	10.0	2.2	10.0	350-1767-ND	2.42	1.89	1.62	568-0101-111F
	Green	565	8.5	2.3	10.0	350-1768-ND	2.42	1.89	1.62	568-0102-222F
	Grn./Ylw./Grn./Ylw.	565/583	8.5/10.0	2.1/2.2	10.0	350-1769-ND	2.42	1.89	1.62	568-0102-323F
	Orange	600	6.5	2.2	10.0	350-1770-ND	2.42	1.89	1.62	568-0107-777F
	Red	635	1.8	1.8	2.0	350-1771-ND	2.70	2.10	1.80	568-0201-111F
	Green	565	1.6	1.8	2.0	350-1772-ND	2.70	2.10	1.80	568-0202-222F
	Grn./Ylw./Grn./Ylw.	565/583	1.6	1.8/1.9	2.0	350-1773-ND	2.70	2.10	1.80	568-0202-323F
	Red	635	4.0	5.0	10.0	350-1774-ND	2.88	2.25	1.93	568-0301-111F
	Green	565	8.0	5.0	12.0	350-1775-ND	2.88	2.25	1.93	568-0302-222F
	Bi-Color Red/Green	635/565	5.0	2.0	10.0	350-1776-ND	3.60	2.80	2.40	568-0701-111F
	Bi-Color Ylw./Grn.	585/565	4.3/6.3	2.1	10.0	350-1777-ND	3.60	2.80	2.40	568-0704-444F
44	Red	635	12.6	2.0	30.0	350-1864-ND	1.27	.99	.85	571-0111F
	Green	565	8.7	2.1	30.0	350-1865-ND	1.27	.99	.85	571-0122F
	Yellow	585	12.06	2.1	20.0	350-1866-ND	1.27	.99	.85	571-0133F
	Yellow/Green	585/565	12.6/8.7	2.1/2.1	20.0/30.0	350-1867-ND	1.27	.99	.85	571-0132F
	Red/Green	635/565	12.6/8.7	2.0/2.1	30.0/30.0	350-1868-ND	1.27	.99	.85	571-0112F

Fig. 37

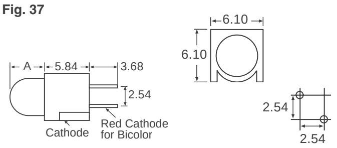

Dim. A: 3.43 for 550-0204[F] ~ 550-0404[F], 5.0 for all others

Fig. 38

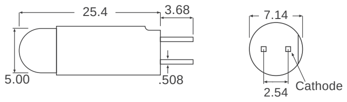

Fig. 39

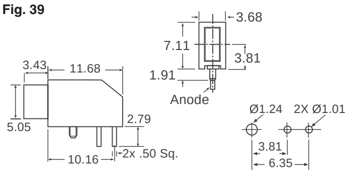

Fig. 40

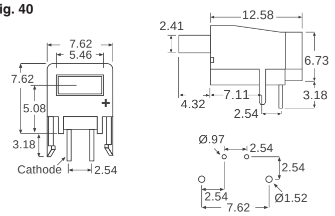

Fig. 41

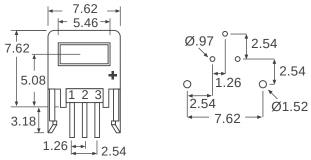

Fig. 42

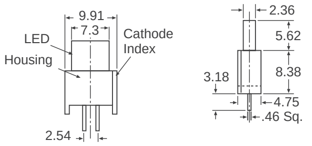

Fig. 43

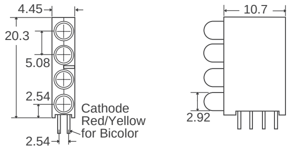

Fig. 44

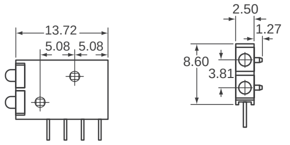

Dialight Optical Light Pipe

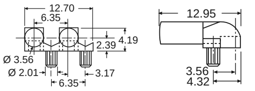

No. of Ports	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
2	350-1000-ND 350-1590-ND†	1.23 .92	1.03 .72	.82 .62	515-1071 515-1071F

† *RoHS Compliant*

Dialight

Panel Mount LEDs

Fig.	Lens	Color	Wave Length pk(nm)	Typ. Io (fL)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
1	Flat	White	—	4,000	12.0 DC	60.0	350-1415-ND	49.50	38.50	33.00	556-1003-304
		White	—	4,000	24.0 DC	32.0	350-1416-ND	49.50	38.50	33.00	556-1004-304
		White	—	1,800	125.0 AC	9.5	350-1417-ND	49.50	38.50	33.00	556-1005-304
		Red	639	3,000	12.0 DC	95.0	350-1418-ND	36.00	28.00	24.00	556-1503-304
		Red	639	3,000	24.0 DC	46.0	350-1419-ND	36.00	28.00	24.00	556-1504-304
		Red	639	1,200	125.0 AC	10.5	350-1420-ND	36.00	28.00	24.00	556-1505-304
		Green	525	4,000	12.0 DC	60.0	350-1421-ND	41.63	32.38	27.75	556-1603-304
		Green	525	4,000	24.0 DC	32.0	350-1422-ND	41.63	32.38	27.75	556-1604-304
		Green	525	1,800	125.0 AC	9.5	350-1423-ND	41.63	32.38	27.75	556-1605-304
		Yellow	594	3,000	12.0 DC	95.0	350-1424-ND	36.00	28.00	24.00	556-1703-304
		Yellow	594	3,000	24.0 DC	46.0	350-1425-ND	36.00	28.00	24.00	556-1704-304
		Yellow	594	1,200	125.0 AC	10.5	350-1426-ND	36.00	28.00	24.00	556-1705-304
		Blue	470	1,200	12.0 DC	60.0	350-1427-ND	49.50	38.50	33.00	556-1803-304
		Blue	470	1,200	24.0 DC	32.0	350-1428-ND	49.50	38.50	33.00	556-1804-304
		Blue	470	500	125.0 AC	9.5	350-1429-ND	49.50	38.50	33.00	556-1805-304
2	Dome	White	—	1,200	12.0 DC	60.0	350-1430-ND	49.50	38.50	33.00	556-3003-304
		White	—	1,200	24.0 DC	31.0	350-1431-ND	49.50	38.50	33.00	556-3004-304
		White	—	700	125.0 AC	9.5	350-1432-ND	49.50	38.50	33.00	556-3005-304
		Red	639	1,300	12.0 DC	95.0	350-1433-ND	36.00	28.00	24.00	556-3503-304
		Red	639	1,300	24.0 DC	46.0	350-1434-ND	36.00	28.00	24.00	556-3504-304
		Red	639	500	125.0 AC	10.5	350-1435-ND	36.00	28.00	24.00	556-3505-304
		Green	525	1,800	12.0 DC	60.0	350-1436-ND	41.63	32.38	27.75	556-3603-304
		Green	525	1,800	24.0 DC	32.0	350-1437-ND	41.63	32.38	27.75	556-3604-304
		Green	525	700	125.0 AC	9.5	350-1438-ND	41.63	32.38	27.75	556-3605-304
		Yellow	594	1,300	12.0 DC	95.0	350-1439-ND	36.00	28.00	24.00	556-3703-304
		Yellow	594	1,300	24.0 DC	46.0	350-1440-ND	36.00	28.00	24.00	556-3704-304
		Yellow	594	500	125.0 AC	10.5	350-1441-ND	36.00	28.00	24.00	556-3705-304
		Blue	470	480	12.0 DC	60.0	350-1442-ND	49.50	38.50	33.00	556-3803-304
		Blue	470	480	24.0 DC	32.0	350-1443-ND	49.50	38.50	33.00	556-3804-304
		Blue	470	180	125.0 AC	9.5	350-1444-ND	49.50	38.50	33.00	556-3805-304
3	Super Bright	White	—	700	5.0 DC	16.0	350-1445-ND	18.75	15.63	12.50	557-1002-203
		White	—	700	12.0 DC	16.0	350-1446-ND	18.75	15.63	12.50	557-1003-203
		White	—	700	24.0 DC	16.0	350-1447-ND	18.75	15.63	12.50	557-1005-203
		Red/Green	635/525	400/1,000	5.0 DC	70.0/16.0	350-1448-ND	20.25	16.88	13.50	557-1412-203
		Yellow/Green	592/525	400/1,000	5.0 DC	70.0/16.0	350-1449-ND	20.25	16.88	13.50	557-1432-203
		Red	660	1,000	5.0 DC	80.0	350-1450-ND	16.95	14.13	11.30	557-1502-203
		Red	660	1,000	12.0 DC	20.0	350-1451-ND	16.95	14.13	11.30	557-1503-203
		Red	660	1,000	24.0 DC	20.0	350-1452-ND	16.95	14.13	11.30	557-1505-203
		Green	525	1,000	5.0 DC	16.0	350-1453-ND	18.75	15.63	12.50	557-1602-203
		Green	525	1,000	12.0 DC	16.0	350-1454-ND	18.75	15.63	12.50	557-1603-203
		Green	525	1,000	24.0 DC	16.0	350-1455-ND	18.75	15.63	12.50	557-1605-203
		Yellow	592	1,000	5.0 DC	80.0	350-1456-ND	16.95	14.13	11.30	557-1702-203
		Yellow	592	1,000	12.0 DC	20.0	350-1457-ND	16.95	14.13	11.30	557-1703-203
		Yellow	592	1,000	24.0 DC	20.0	350-1458-ND	16.95	14.13	11.30	557-1705-203
		Blue	470	250	5.0 DC	16.0	350-1459-ND	18.75	15.63	12.50	557-1802-203
		Blue	470	250	12.0 DC	16.0	350-1460-ND	18.75	15.63	12.50	557-1803-203
		Blue	470	250	24.0 DC	16.0	350-1461-ND	18.75	15.63	12.50	557-1805-203

Fig.	Housing	Color	Wave Length pk(nm)	Typ. Io (mcd)	Typ. Vf (V)	Typ. If (mA)	Digi-Key Part No.	Price Each 1	25	100	Dialight Part No.
4	Valox	Blue	428	13.0	3.5 DC	10.0	350-1591-ND†	2.70	2.10	1.80	558-0803-007F
		Blue	464	460.0	3.5 DC	20.0	350-1592-ND†	2.70	2.10	1.80	558-6003-007F
		White	—	850.0	3.6 DC	20.0	350-1593-ND†	2.70	2.10	1.80	558-6403-007F
5	Valox	Blue	468	650.0	3.6 DC	20.0	350-1594-ND†	7.31	5.69	4.88	559-6001-007F
		Green	520	2200.0	3.5 DC	20.0	350-1595-ND†	7.31	5.69	4.88	559-6201-007F
		White	—	600.0	3.5 DC	20.0	350-1530-ND	9.75	8.13	6.50	559-6401-007
		White	—	600.0	3.5 DC	20.0	350-1596-ND†	7.31	5.69	4.88	559-6401-007F
6	Chrome Plated	Red	630	8.0	6.0 DC	15.0	350-1462-ND	3.96	3.30	2.64	607-1112-120
		Red	630	8.0	12.0 DC	15.0	350-1463-ND	3.96	3.30	2.64	607-1112-130
		Green	560	8.0	6.0 DC	15.0	350-1464-ND	4.20	3.50	2.80	607-1212-120
		Green	560	8.0	12.0 DC	15.0	350-1465-ND	4.20	3.50	2.80	607-1212-130
		Yellow	587	2.4	6.0 DC	15.0	350-1466-ND	4.20	3.50	2.80	607-1312-120
		Yellow	587	2.4	12.0 DC	15.0	350-1467-ND	4.20	3.50	2.80	607-1312-130
7	Chrome Plated	Red	630	8.0	6.0 DC	15.0	350-1468-ND	3.96	3.30	2.64	607-2112-120
		Red	630	8.0	12.0 DC	15.0	350-1469-ND	3.96	3.30	2.64	607-2112-130
		Green	560	8.0	6.0 DC	15.0	350-1470-ND	4.20	3.50	2.80	607-2212-120
		Green	560	8.0	12.0 DC	15.0	350-1471-ND	4.20	3.50	2.80	607-2212-130
		Yellow	587	2.4	6.0 DC	15.0	350-1472-ND	4.20	3.50	2.80	607-2312-120
		Yellow	587	2.4	12.0 DC	15.0	350-1473-ND	4.20	3.50	2.80	607-2312-130
8	Chrome Plated	Red	635	60.0	6.0 DC	15.0	350-1474-ND	3.75	3.13	2.50	609-1112-120
		Red	635	60.0	12.0 DC	15.0	350-1475-ND	3.75	3.13	2.50	609-1112-130
		Red	635	60.0	24.0 DC	15.0	350-1476-ND	3.75	3.13	2.50	609-1112-140
		Green	565	112.0	6.0 DC	15.0	350-1480-ND	3.75	3.13	2.50	609-1212-120
		Green	565	112.0	12.0 DC	15.0	350-1481-ND	3.75	3.13	2.50	609-1212-130
		Green	565	112.0	24.0 DC	15.0	350-1482-ND	3.75	3.13	2.50	609-1212-140
		Yellow	585	90.0	6.0 DC	15.0	350-1486-ND	3.75	3.13	2.50	609-1312-120
		Yellow	585	90.0	12.0 DC	15.0	350-1487-ND	3.75	3.13	2.50	609-1312-130
		Yellow	585	90.0	24.0 DC	15.0	350-1488-ND	3.75	3.13	2.50	609-1312-140
	Black	Red	635	60.0	6.0 DC	15.0	350-1477-ND	4.05	3.38	2.70	609-1122-120
		Red	635	60.0	12.0 DC	15.0	350-1478-ND	4.05	3.38	2.70	609-1122-130
		Red	635	60.0	24.0 DC	15.0	350-1479-ND	4.05	3.38	2.70	609-1122-140
		Green	565	112.0	6.0 DC	15.0	350-1483-ND	4.05	3.38	2.70	609-1222-120
		Green	565	112.0	12.0 DC	15.0	350-1484-ND	4.05	3.38	2.70	609-1222-130
		Green	565	112.0	24.0 DC	15.0	350-1485-ND	4.05	3.38	2.70	609-1222-140
		Yellow	585	90.0	6.0 DC	15.0	350-1489-ND	4.05	3.38	2.70	609-1322-120
		Yellow	585	90.0	12.0 DC	15.0	350-1490-ND	4.05	3.38	2.70	609-1322-130
		Yellow	585	90.0	24.0 DC	15.0	350-1491-ND	4.05	3.38	2.70	609-1322-140
9	Chrome Plated	Red	635	60.0	6.0 DC	15.0	350-1492-ND	3.75	3.13	2.50	609-2112-120
		Red	635	60.0	12.0 DC	15.0	350-1493-ND	3.75	3.13	2.50	609-2112-130
		Red	635	60.0	24.0 DC	15.0	350-1494-ND	3.75	3.13	2.50	609-2112-140
		Green	565	112.0	6.0 DC	15.0	350-1498-ND	3.75	3.13	2.50	609-2212-120
		Green	565	112.0	12.0 DC	15.0	350-1499-ND	3.75	3.13	2.50	609-2212-130
		Green	565	112.0	24.0 DC	15.0	350-1500-ND	3.75	3.13	2.50	609-2212-140
		Yellow	585	90.0	6.0 DC	15.0	350-1504-ND	3.75	3.13	2.50	609-2312-120
		Yellow	585	90.0	12.0 DC	15.0	350-1505-ND	3.75	3.13	2.50	609-2312-130
		Yellow	585	90.0	24.0 DC	15.0	350-1506-ND	3.75	3.13	2.50	609-2312-140
	Black	Red	635	60.0	6.0 DC	15.0	350-1495-ND	4.05	3.38	2.70	609-2122-120
		Red	635	60.0	12.0 DC	15.0	350-1496-ND	4.05	3.38	2.70	609-2122-130
		Red	635	60.0	24.0 DC	15.0	350-1497-ND	4.05	3.38	2.70	609-2122-140
		Green	565	112.0	6.0 DC	15.0	350-1501-ND	4.05	3.38	2.70	609-2222-120
		Green	565	112.0	12.0 DC	15.0	350-1502-ND	4.05	3.38	2.70	609-2222-130
		Green	565	112.0	24.0 DC	15.0	350-1503-ND	4.05	3.38	2.70	609-2222-140
		Yellow	585	90.0	6.0 DC	15.0	350-1507-ND	4.05	3.38	2.70	609-2322-120
		Yellow	585	90.0	12.0 DC	15.0	350-1508-ND	4.05	3.38	2.70	609-2322-130
		Yellow	585	90.0	24.0 DC	15.0	350-1509-ND	4.05	3.38	2.70	609-2322-140

Fig. 1

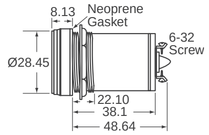

NEMA 4X IP66

Fig. 2

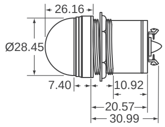

NEMA 4X IP66

Fig. 3

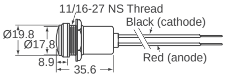

Bi-Color has 3 leads

Fig. 4

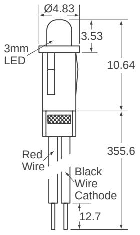

Fig. 5

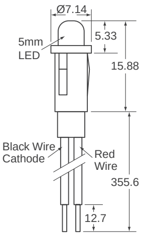

Fig. 6

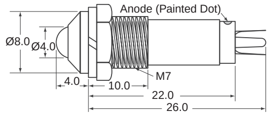

Fig. 7

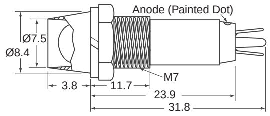

Fig. 8

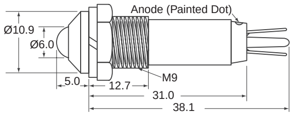

Fig. 9

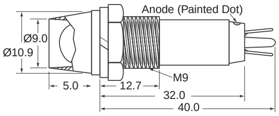

† RoHS Compliant

LED 7-Segment Displays

Fig. 1

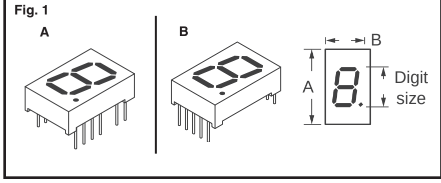

Fig. 2

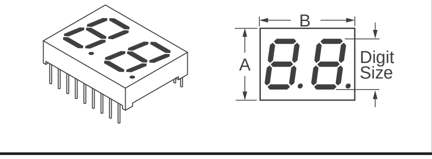

Fig. 3

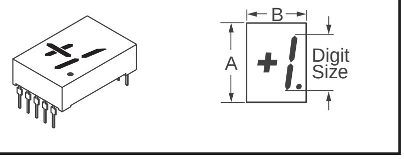

Fig.	Emitted Color	Digit Size Inch (mm)	Dimensions (mm) A x B	Forward Voltage Typ.	@ If	Iv (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each			Stanley Part No. Common Anode	Stanley Part No. Common Cathode
									1	25	100		
1A	Red	.30 (7.5)	11.0 x 7.0	1.7	10	2800	404-1118-ND	404-1119-ND	1.92	.97	.87	NAR131SB	NKR131SB
	Red	.40 (10)	13.0 x 9.6	1.7	10	6400	—	404-1120-ND	1.88	.95	.85	—	NKR141SC
	Red	.40 (10)	19.0 x 12.5	1.7	20	8000	404-1121-ND	404-1122-ND	2.44	1.44	1.22	NAR141B	NKR141B
1B	Red	.60 (15)	19.0 x 12.5	1.7	20	12000	404-1124-ND	404-1125-ND	1.96	.99	.89	NAR161B	NKR161B
	Red	1.0 (25)	33.0 x 22.8	3.4	20	20000	404-1126-ND	404-1127-ND	5.52	3.40	3.01	NAR105B	NKR105B
	Green	1.0 (25)	33.0 x 22.8	4.4	20	8000	404-1128-ND	404-1129-ND	5.49	3.38	2.99	NAG105PB	NKG105PB
2	Red	.60 (15)	19.0 x 25.2	1.7	20	12000	404-1130-ND	404-1131-ND	3.42	2.11	1.98	NAR261B	NKR261B
1B	Red/Green	1.00 (25)	33.0 x 22.8	3.4/4.0	10/10	4000	404-1134-ND	—	7.35	5.38	4.46	NARG105	—

Fig.	Emitted Color	Digit Size Inch (mm)	Dimensions mm A x B	Forward Voltage Typ.	@ If	Iv (µcd)	Digi-Key Part No.	Price Each			Stanley Part No.
								1	25	100	
3	Red	.60 (15)	19.0 x 12.5	1.7	20	12000	404-1136-ND	2.23	1.32	1.11	NSR161B

Super Bright LED Light Bar Module

Fig. 1

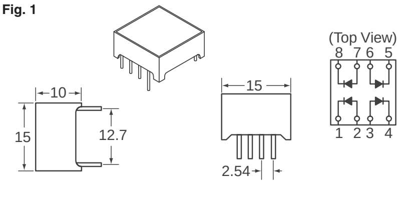

Fig. 2

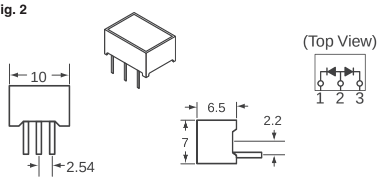

Fig. 3

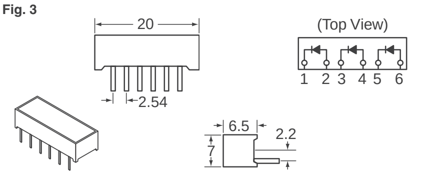

Fig. 4

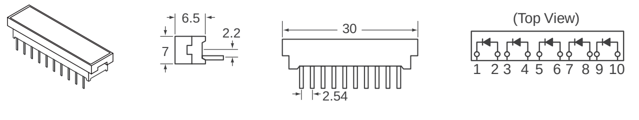

Fig. 5

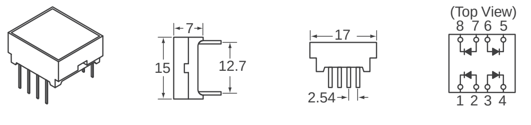

Fig.	Emitted Color	Wavelength λpk Typ. (nm)	Forward Voltage Typ.	@ If	Iv (mcd)	Digi-Key Part No.	Price Each			Stanley Part No.
							1	25	100	
1	Orange	605	2.2	20	20	404-1138-ND	1.64	.83	.74	MU02-3201
	Yellow	570	2.1	20	42	404-1139-ND	1.44	.80	.66	MU02-4201
2	Red	660	1.7	20	20	404-1141-ND	.96	.43	.39	MU03-2201
3	Red	660	1.7	20	32	404-1145-ND	1.16	.65	.53	MU04-2101
	Yellow	570	2.1	20	32	404-1146-ND	1.13	.63	.51	MU04-4101
	Green	560	2.1	20	20	404-1147-ND	1.13	.63	.51	MU04-5102
4	Red	660	1.7	20	40	404-1148-ND	1.69	.85	.77	MU07-2101
	Yellow	570	2.1	20	40	404-1150-ND	1.61	.82	.73	MU07-4101
5	Red	660	1.7	20	40	404-1152-ND	1.52	.85	.69	MU08-2201
	Yellow	570	2.2	20	40	404-1153-ND	1.47	.82	.67	MU08-4201
	Pure Green	560	2.2	20	20	404-1154-ND	1.65	.83	.75	MU08-5201

STANLEY
Stanley Electric Sales of America

Surface Mount LEDs

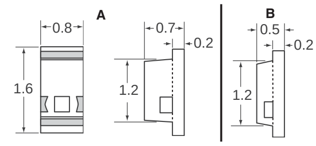

Fig. 1 — 0603 Ultra Compact

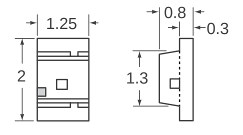

Fig. 2 — 0805 Thin Type

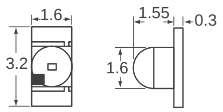

Fig. 3 — 1206 Standard and Reverse Mount Dome Lens

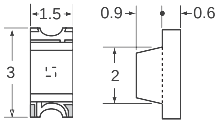

Fig. 4 — 1206 Standard Flat Lens

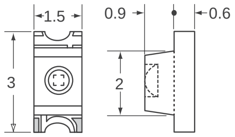

Fig. 5 — 1206 Standard Inner Lens

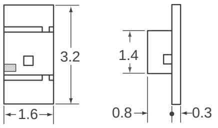

Fig. 6 — 1206 Reverse Mount

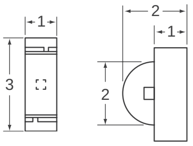

Fig. 7 — Right Angle SMT LED

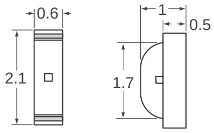

Fig. 8 — Right Angle SMT LED

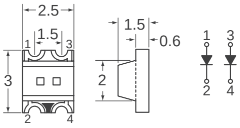

Fig. 9 — 1210 Bi-Color Standard Flat Lens Type SMT LED

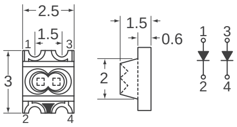

Fig. 10 — 1210 Bi-Color Two Inner Lens Type SMT LED

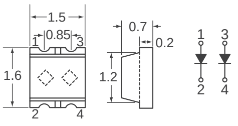

Fig. 11 — Bi-Color Ultra Compact SMT LED

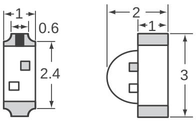

Fig. 12 — Bi-Color Right Angle SMT LED

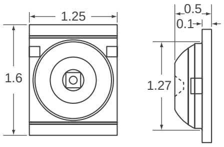

Fig. 13 — Low Profile

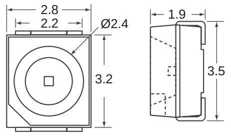

Fig. 14 — 3.2 x 2.8 Flat Lens

Fig.	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP	@ mA	Iv (mcd)	Viewing Angle	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Stanley Part No.
								0603 Ultra Compact							
1A	Red	Milky White	660	1.7	20	11.7	140°	404-1000-1-ND	.26	2.98	8.66	404-1000-2-ND	4,000	56.02/M	BR1111C-TR
	Orange		605	2.2	20	3.4	150°	404-1001-1-ND	.37	4.50	13.55	404-1001-2-ND	4,000	97.98/M	AA1111C-TR
	Yellow		580	2.2	20	3.4	150°	404-1002-1-ND	.25	2.92	8.48	404-1002-2-ND	4,000	54.87/M	AY1111C-TR
	Yellow-Green		570	2.1	20	11.7	150°	404-1003-1-ND	.20	2.31	6.72	404-1003-2-ND	4,000	43.44/M	PY1111C-TR
	Green		560	2.1	20	6.4	150°	404-1004-1-ND	.20	2.29	6.64	404-1004-2-ND	4,000	42.95/M	PG1111C-TR
	Pure Green		555	2.1	20	2.4	150°	404-1005-1-ND	.40	4.88	14.68	404-1005-2-ND	4,000	99.45/M	BG1111C-TR
	Red	Milky White	635	1.9	20	50	140°	404-1006-1-ND	1.04	12.75	41.47	404-1006-2-ND	4,000	295.73/M	FR1111C-TR
	Orange		609	1.9	20	65	140°	404-1007-1-ND	.92	11.36	36.95	404-1007-2-ND	4,000	263.52/M	FA1111C-TR
	Yellow		590	1.9	20	65	140°	404-1008-1-ND	.93	11.43	37.16	404-1008-2-ND	4,000	264.99/M	FY1111C-TR
	Green		522	3.3	10	40	130°	404-1009-1-ND	3.35	49.47	166.64	404-1009-2-ND	4,000	1291.50/M	DG1111C-TR
	Bluish-Green		502	3.3	10	34	130°	404-1010-1-ND	1.99	29.37	98.95	404-1010-2-ND	4,000	766.89/M	DC1111C-TR
	Blue		467	3.3	10	14	130°	404-1011-1-ND	1.85	27.33	92.07	404-1011-2-ND	4,000	713.55/M	DB1111C-TR
1B	Red	Milky White	635	1.9	20	45	130°	404-1012-1-ND	1.29	15.75	47.44	404-1012-2-ND	4,000	321.30/M	FR1112C-TR
	Orange		609	1.9	20	50	130°	404-1013-1-ND	1.11	13.50	40.66	404-1013-2-ND	4,000	275.40/M	FA1112C-TR
	Yellow		590	1.9	20	50	130°	404-1014-1-ND	1.17	14.25	42.92	404-1014-2-ND	4,000	290.70/M	FY1112C-TR
	Green		560	2.2	20	7.6	150°	404-1015-1-ND	.37	4.50	13.55	404-1015-2-ND	4,000	97.98/M	PG1112C-TR
	Yellow-Green		570	2.1	20	11.7	150°	404-1016-1-ND	.35	4.28	12.88	404-1016-2-ND	4,000	93.08/M	PY1112C-TR
								0805 Thin Type							
2	Red	Milky White	660	1.7	20	11.7	150°	404-1017-1-ND	.39	4.73	14.23	404-1017-2-ND	4,000	96.39/M	BR1112H-TR
	Orange		605	2.2	20	3.7	160°	404-1018-1-ND	.36	4.43	13.33	404-1018-2-ND	4,000	96.35/M	AA1112H-TR
	Yellow		580	2.2	20	3.7	160°	404-1019-1-ND	.35	4.28	12.88	404-1019-2-ND	4,000	93.08/M	AY1112H-TR
	Yellow-Green		570	2.1	20	11.7	160°	404-1020-1-ND	.33	3.98	11.97	404-1020-2-ND	4,000	86.55/M	PY1112H-TR
	Green		560	2.1	20	6.4	160°	404-1021-1-ND	.22	2.51	7.30	404-1021-2-ND	4,000	47.20/M	PG1112H-TR
	Pure Green		555	2.1	20	2.7	160°	404-1022-1-ND	.29	3.42	9.92	404-1022-2-ND	4,000	64.18/M	BG1112H-TR
	Red	Milky White	635	1.9	20	50	150°	404-1023-1-ND	1.11	13.64	44.34	404-1023-2-ND	4,000	316.23/M	FR1112H-TR
	Orange		609	1.9	20	65	150°	404-1024-1-ND	.95	11.68	37.98	404-1024-2-ND	4,000	270.84/M	FA1112H-TR
	Yellow		592	1.9	20	65	150°	404-1025-1-ND	1.00	12.25	39.83	404-1025-2-ND	4,000	284.02/M	FY1112H-TR
	Green		522	3.3	10	40	150°	404-1026-1-ND	2.07	30.56	102.96	404-1026-2-ND	4,000	797.97/M	DG1112H-TR
	Bluish-Green		502	3.3	10	34	150°	404-1027-1-ND	2.90	42.74	143.99	404-1027-2-ND	4,000	1115.96/M	DC1112H-TR
	Blue		467	3.3	10	14	150°	404-1028-1-ND	2.26	28.35	102.03	404-1028-2-ND	4,000	594.32/M	DB1112H-TR
								1206 Standard and Reverse Mount Dome Lens							
3	Red	Water Clear	660	1.8	20	150	30°	404-1032-1-ND	.44	5.36	16.15	404-1032-2-ND	2,000	116.76/M	HKR1105W-TR
	Red		660	1.7	20	50	50°	404-1033-1-ND	.43	5.25	15.81	404-1033-2-ND	2,000	114.31/M	HBR1105W-TR
	Orange		605	2.2	20	20	40°	404-1034-1-ND	.55	6.75	20.33	404-1034-2-ND	2,000	146.97/M	HAA1105W-TR
	Yellow		580	2.2	20	20	40°	404-1035-1-ND	.31	3.80	11.45	404-1035-2-ND	2,000	82.80/M	HAY1105W-TR
	Yellow-Green		570	2.1	20	50	40°	404-1036-1-ND	.38	4.65	14.01	404-1036-2-ND	2,000	101.25/M	HPY1105W-TR
	Green		560	2.1	20	30	40°	404-1037-1-ND	.32	3.75	10.88	404-1037-2-ND	2,000	74.52/M	HPG1105W-TR
	Pure Green		555	2.1	20	12	40°	404-1038-1-ND	.47	5.78	17.39	404-1038-2-ND	2,000	125.74/M	HBG1105W-TR
	Red	Water Clear	635	1.9	20	180	50°	404-1029-1-ND	.46	5.61	16.90	404-1029-2-ND	2,000	122.15/M	FR1105W-TR
	Orange		609	1.9	20	200	50°	404-1030-1-ND	.85	10.42	33.87	404-1030-2-ND	2,000	252.45/M	FA1105W-TR
	Yellow		592	1.9	20	180	50°	404-1031-1-ND	.44	5.42	16.33	404-1031-2-ND	2,000	118.07/M	FY1105W-TR
	Green		522	3.3	10	140	40°	404-1039-1-ND	2.01	26.66	94.27	404-1039-2-ND	2,000	845.17/M	HDG1105W-TR
	Bluish-Green		502	3.3	10	140	40°	404-1040-1-ND	2.01	26.66	94.27	404-1040-2-ND	2,000	845.17/M	HDC1105W-TR
	Blue		467	3.3	10	70	40°	404-1041-1-ND	1.88	24.89	88.04	404-1041-2-ND	2,000	789.24/M	HDB1105W-TR
								1206 Standard Flat Lens							
4	Red	Water Clear	660	1.7	20	12.8	150°	404-1042-1-ND	.29	3.38	9.82	404-1042-2-ND	2,500	67.26/M	BR1101W-TR
	Orange		605	2.2	20	5.6		404-1043-1-ND	.44	5.33	16.04	404-1043-2-ND	2,500	115.95/M	AA1101W-TR
	Yellow		580	2.2	20	4.0		404-1044-1-ND	.40	4.88	14.68	404-1044-2-ND	2,500	106.15/M	AY1101W-TR
	Yellow-Green		570	2.1	20	8.0		404-1045-1-ND	.38	4.65	14.01	404-1045-2-ND	2,500	101.25/M	PY1101W-TR
	Green		560	2.1	20	4.8		404-1046-1-ND	.27	3.20	9.29	404-1046-2-ND	2,500	63.63/M	PG1101W-TR
	Pure Green		555	2.1	20	2.0		404-1047-1-ND	.30	3.53	10.25	404-1047-2-ND	2,500	66.30/M	BG1101W-TR
								1206 Standard Inner Lens							
5	Red	Water Clear	660	1.7	20	33.6	70°	404-1048-1-ND	.43	5.25	15.81	404-1048-2-ND	2,500	114.32/M	BR1102W-TR
	Orange		605	2.2	20	10.0		404-1049-1-ND	.44	5.33	16.04	404-1049-2-ND	2,500	115.95/M	AA1102W-TR
	Yellow		580	2.2	20	8.4		404-1050-1-ND	.40	4.88	14.68	404-1050-2-ND	2,500	106.15/M	AY1102W-TR
	Yellow-Green		570	2.1	20	24.0		404-1051-1-ND	.38	4.65	14.01	404-1051-2-ND	2,500	101.25/M	PY1102W-TR
	Green		560	2.1	20	12.0		404-1052-1-ND	.27	3.20	9.29	404-1052-2-ND	2,500	63.63/M	PG1102W-TR
	Pure Green		555	2.1	20	4.8		404-1053-1-ND	.47	5.70	17.17	404-1053-2-ND	2,500	124.11/M	BG1102W-TR

*Reversed Polarity

(Continued)

Fig.	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP	@ mA	Iv (mcd)	Viewing Angle	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Stanley Part No.
1206 Reverse Mount															
6	Red	Milky White	660	1.7	20	12.7	140°	404-1054-1-ND*	.42	5.10	15.36	404-1054-2-ND	3,000	111.05/M	BR1111R-TR
	Orange		605	2.2	20	3.7	150°	404-1055-1-ND	.24	2.96	8.92	—	—	—	AA1111R-TR
	Yellow		580	2.2	20	3.7	150°	404-1056-1-ND	.40	4.88	14.68	404-1056-2-ND	3,000	106.15/M	AY1111R-TR
	Green		560	2.1	20	6.9	150°	404-1058-1-ND	.27	3.17	9.19	404-1058-2-ND	3,000	59.44/M	PG1111R-TR
	Pure Green		555	2.1	20	2.7	150°	404-1059-1-ND	.41	5.03	15.14	404-1059-2-ND	3,000	109.41/M	BG1111R-TR
Right Angle SMT LED															
7	Red	Water Clear	635	1.9	20	50	140°	404-1060-1-ND	1.08	13.50	48.58	404-1060-2-ND	3,000	385.04/M	FR1101F-TR
	Orange		609	1.9	20	65	140°	404-1061-1-ND	.48	5.83	17.55	404-1061-2-ND	3,000	126.89/M	FA1101F-TR
	Yellow		592	1.9	20	65	140°	404-1062-1-ND	1.18	14.52	47.22	404-1062-2-ND	3,000	336.72/M	FY1101F-TR
	Red	Water Clear	660	1.7	20	12.4	170°	404-1063-1-ND	.36	4.25	12.35	404-1063-2-ND	3,000	79.86/M	BR1101F-TR
	Orange		605	2.2	20	3.0	150°	404-1064-1-ND	.26	3.14	9.47	404-1064-2-ND	3,000	68.43/M	AA1101F-TR
	Yellow		580	2.2	20	3.0	150°	404-1065-1-ND	.33	3.82	11.08	404-1065-2-ND	3,000	71.69/M	AY1101F-TR
	Yellow-Green		570	2.1	20	8.8	150°	404-1066-1-ND	.41	5.03	15.14	404-1066-2-ND	3,000	109.41/M	PY1101F-TR
	Green		560	2.1	20	5.2	150°	404-1067-1-ND	.30	3.53	10.25	404-1067-2-ND	3,000	66.30/M	PG1101F-TR
	Pure Green		555	2.1	20	2.4	150°	404-1068-1-ND	.44	5.33	16.04	404-1068-2-ND	3,000	115.95/M	BG1101F-TR
Right Angle SMT LED															
8	Red	Milky White	660	1.7	20	11.7	130°	404-1069-1-ND	.34	4.13	12.42	404-1069-2-ND	4,000	89.82/M	BR1113F-TR
	Yellow-Green		570	2.1	20	11.7	150°	404-1070-1-ND	.35	4.28	12.88	404-1070-2-ND	4,000	93.08/M	PY1113F-TR
	Green		560	2.1	20	6.4	150°	404-1071-1-ND	.37	4.50	13.55	404-1071-2-ND	4,000	97.98/M	PG1113F-TR
	Red	Milky White	635	1.9	20	50	130°	404-1072-1-ND	.66	8.08	26.28	404-1072-2-ND	4,000	187.40/M	FR1113F-TR
	Orange		609	1.9	20	65	130°	404-1073-1-ND	.78	9.53	31.00	404-1073-2-ND	4,000	221.07/M	FA1113F-TR
	Yellow		592	1.9	20	65	130°	404-1074-1-ND	.70	8.59	27.92	404-1074-2-ND	4,000	199.11/M	FY1113F-TR
	Green		522	3.3	10	40	130°	404-1075-1-ND	1.79	27.50	97.25	404-1075-2-ND	4,000	797.97/M	DG1113F-TR
	Bluish-Green		502	3.3	10	34	130°	404-1076-1-ND	2.06	27.34	96.71	404-1076-2-ND	4,000	793.55/M	DC1113F-TR
	Blue		467	3.3	10	14	130°	404-1077-1-ND	1.92	28.35	95.51	404-1077-2-ND	4,000	740.22/M	DB1113F-TR
1210 Bi-Color Standard Flat Lens Type SMT LED															
9	Red/Yellow-Green	Water Clear	660/570	1.7/2.1	20/20	12.8/8	160°/160°	404-1078-1-ND	.62	7.58	24.64	404-1078-2-ND	2,500	183.60/M	BRPY1201W-TR
	Red/Green		660/560	1.7/2.1	20/20	12.8/4.8		404-1079-1-ND	.46	5.62	16.92	404-1079-2-ND	2,500	122.32/M	BRPG1201W-TR
	Red/Pure Green		660/555	1.7/2.1	20/20	12.8/2		404-1080-1-ND	.38	5.10	18.55	—	—	—	BRBG1201W-TR
1210 Bi-Color Two Inner Lens SMT LED															
10	Red/Green	Water Clear	660/560	1.7/2.1	20/20	33.6/12	100°/80°	404-1082-1-ND	.62	7.58	24.64	404-1082-2-ND	2,500	183.60/M	BRPG1204W-TR
	Orange/Yellow-Green		605/570	2.2/2.1	20/20	9/12	80°/80°	404-1084-1-ND	.62	8.25	30.00	404-1084-2-ND	2,500	183.60/M	AAPY1204W-TR
Bi-Color Ultra Compact SMT LED															
11	Red/Yellow-Green	Milky White	660/570	1.7/2.1	20/20	11.7/11.7	170°/150°	404-1085-1-ND	.55	6.75	20.33	404-1085-2-ND	4,000	137.70/M	BRPY1211C-TR
	Red/Green		660/560	1.7/2.1	20/20	11.7/6.4		404-1086-1-ND	.41	5.04	15.18	404-1086-2-ND	4,000	102.82/M	BRPG1211C-TR
	Red/Pure Green		660/555	1.7/2.1	20/20	11.7/2.4		404-1087-1-ND	.57	6.90	20.78	404-1087-2-ND	4,000	102.82/M	BRBG1211C-TR
Bi-Color Right Angle SMT LED															
12	Yellow-Green	Milky White	580/560	2.2/2.1	20/20	3.0/5.2	150°	404-1088-1-ND	.41	4.98	15.00	404-1088-2-ND	3,000	108.43/M	AYPG1211F-TR
	Red/Yellow-Green		660/570	1.7/2.1	20/20	17.6/8.8		404-1089-1-ND	.43	5.24	15.77	404-1089-2-ND	3,000	113.99/M	BRPY1211F-TR
1.6 x 1.25 Low Profile															
13	Yellow	Water Clear	570	2.1	10	8.0	180°	404-1163-1-ND	.36	4.43	13.33	404-1163-2-ND	4,000	96.35/M	PY1105CK-TR
3.2 x 2.8 Flat Lens															
14	Red	Water Clear	645	2.0	20	70	120°	404-1161-1-ND	.95	11.34	36.30	404-1161-2-ND	2,000	268.95/M	FR1104B-TR
	Yellow		588	2.0	20	70	120°	404-1160-1-ND	.49	5.91	18.92	404-1160-2-ND	2,000	123.15/M	FY1104B-TR

*Reversed Polarity

Through-Hole LEDs

Fig. 1

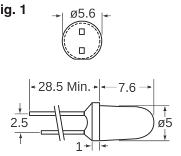

Fig. 2

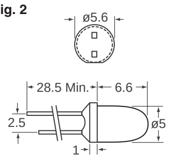

Fig. 3

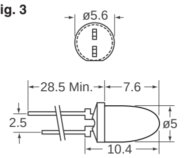

Fig. 4

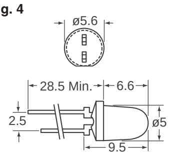

Fig. 5

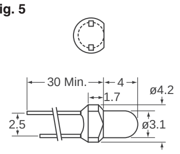

Fig. 6

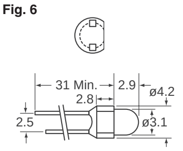

Fig.	Description	Source Color	Lens	Wavelength λpk (nm)	Forward Voltage TYP	@ mA	Iv (mcd)	Viewing Angle	Digi-Key Part No.	Price Each 1	25	100	Stanley Part No.
1	5mm	Red	Clear Pastel Red	635	1.9	20	3600	10°	404-1090-ND	.77	.38	.31	EFR5366X
		Orange	Clear Pastel Orange	609	1.9	20	5000	10°	404-1091-ND	.77	.38	.31	EFA5366X
		Yellow	Clear Pastel Yellow	592	1.9	20	4000	10°	404-1092-ND	.82	.41	.33	EFY5366X
		Green	Water Clear	522	3.5	20	2400	10°	404-1093-ND	2.07	1.22	1.03	DG5306X
		Blue Green	Water Clear	502	3.5	20	2400	10°	404-1094-ND	2.07	1.22	1.03	DC5306X
		Blue	Water Clear	467	3.5	20	1000	10°	404-1095-ND	1.93	1.14	.96	DB5306X
2	5mm	Red	Clear Pastel Red	635	1.9	20	880	45°	404-1096-ND	.82	.41	.33	EFR5365S
		Orange	Clear Pastel Orange	609	1.9	20	1160	45°	404-1097-ND	.82	.41	.33	EFA5365S
		Yellow	Clear Pastel Yellow	592	1.9	20	1000	45°	404-1098-ND	.82	.41	.33	EFY5365S
		Green	Water Clear	522	3.5	20	800	30°	404-1099-ND	2.06	1.22	1.03	DG5305S
		Blue Green	Water Clear	502	3.5	20	800	30°	404-1100-ND	2.06	1.22	1.03	DC5305S
		Blue	Water Clear	467	3.5	20	240	30°	404-1101-ND	1.93	1.14	.96	DB5305S
		White	Water Clear	—	3.7	20	2000	35°	404-1162-ND	1.53	.79	.72	UW5805S
3	5mm	Red	Water Clear	660	1.8	20	1000	10°	404-1102-ND	1.28	.71	.58	H-1000L
							2000	10°	404-1103-ND	1.89	.95	.86	H-2000L
							3000	10°	404-1104-ND	2.42	1.43	1.21	H-3000L
4	5mm	Red	Water Clear	660	1.8	20	300	25°	404-1105-ND	.89	.44	.36	KR5005S
5	3mm Flush Mount	Red	Clear Pastel Red	635	1.9	20	1280	20°	404-1106-ND	.83	.41	.34	EFR3863X
		Orange	Clear Pastel Orange	609	1.9	20	1600	20°	404-1107-ND	.93	.46	.38	EFA3863X
		Yellow	Clear Pastel Yellow	592	1.9	20	1440	20°	404-1108-ND	.82	.41	.33	EFY3863X
		Green	Water Clear	522	3.5	20	1200	20°	404-1109-ND	2.04	1.21	1.02	DG3803X
		Blue Green	Water Clear	502	3.5	20	1200	20°	404-1110-ND	2.04	1.21	1.02	DC3803X
		Blue	Water Clear	467	3.5	20	500	20°	404-1111-ND	1.90	1.13	.95	DB3803X
6	3mm Flush Mount	Red	Clear Pastel Red	635	1.9	20	440	70°	404-1112-ND	.83	.41	.34	EFR3864X
		Orange	Clear Pastel Orange	609	1.9	20	560	70°	404-1113-ND	.93	.46	.38	EFA3864X
		Yellow	Clear Pastel Yellow	592	1.9	20	500	70°	404-1114-ND	.77	.38	.31	EFY3864X
		Green	Water Clear	522	3.5	20	480	50°	404-1115-ND	2.04	1.21	1.02	DG3804X
		Blue Green	Water Clear	502	3.5	20	480	50°	404-1116-ND	2.04	1.21	1.02	DC3804X
		Blue	Water Clear	467	3.5	20	120	50°	404-1117-ND	1.90	1.13	.95	DB3804X
		White	Water Clear	—	3.7	20	2000	40°	404-1164-ND	2.18	1.25	1.11	UW3804X

FAIRCHILD
SEMICONDUCTOR®

LEDs

Fig. 1

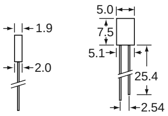

Fig. 2

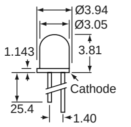

Fig. 3

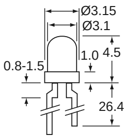

Fig. 4

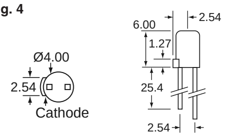

Fig. 5

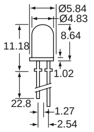

Fig. 6

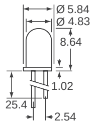

Fig. 7

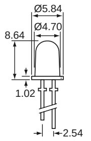

Fig. 8

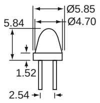

Fig. 9

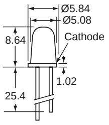

Fig. 10

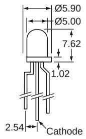

Fig. 11

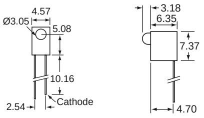

Fig. 12

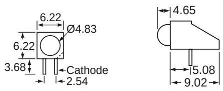

Fig. 13

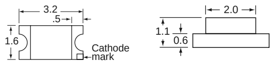

Fig. 14

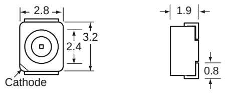

Fig.	Size	Color	Wave-Length pk (nm)	Lens	Vf (V) Typ.	If (mA) Typ.	View-ing Angle	Intensity (mcd) Typ.	Digi-Key Part No.	Price Each		
										1	10	100
					Standard LED's							
1	2x5 mm	Green	562	Diffused	2.2	20	100°	4.0	MV54123-ND	.36	.28	.20
	2x5 mm	Yellow	585	Diffused	2.1	20	100°	4.0	MV53123-ND	.36	.28	.20
2	3mm	Green	565	Diffused	2.2	20	180°	7.0	MV5477C-ND	.34	.27	.19
3	3mm	Hi. Eff. Red	635	Pale Tint	2.2	20	45°	60.0	HLMP1340-ND	.34	.27	.19
	3mm	Hi. Eff. Green	565	Pale Tint	2.2	20	45°	60.0	HLMP1540-ND	.34	.27	.19
	3mm	Yellow	585	Diffused	2.1	10	90°	4.5	MV53642-ND	.34	.27	.19
	3mm	Yellow	585	Diffused	1.9	2.0	50°	2.0	HLMP1719-ND	.34	.27	.19
4	4mm	Hi. Eff. Red	635	Diffused	2.2	20	135°	7.0	HLMPM201-ND	.34	.27	.19
5	5mm	Hi. Eff. Red	635	Tint	2.2	20	24°	150.0	HLMP3750AFS-ND	.34	.27	.19
6	5mm	Hi. Eff. Green	562	Clear	2.2	20	35°	25.0	MV5452-ND	.34	.27	.19
	5mm	Yellow	585	Clear	2.1	20	28°	90.0	MV5352-ND	.34	.27	.19
	5mm	Yellow	585	Diffused	2.1	20	24°	25.0	MV5354A-ND	.34	.27	.19
	5mm	Red	660	Diffused	2.2	20	80°	0.5	MV5053-ND**	.34	.27	.19
	5mm	Red	660	Diffused	2.2	20	80°	0.5	MV6053-ND	.34	.27	.19
	5mm	Hi. Eff. Red	635	Diffused	2.0	20	65°	15.0	MV5753-ND**	.34	.27	.19
	5mm	Hi. Eff. Red	635	Diffused	2.0	20	65°	15.0	MV6753-ND	.34	.27	.19
	5mm	Green	562	Diffused	2.2	20	75°	20.0	MV64531-ND	.34	.27	.19
	5mm	Yellow	585	Diffused	1.9	2.0	35°	2.0	HLMP4719-ND	.34	.27	.19
	5mm	Hi. Eff. Green	565	Diffused	1.9	2.0	35°	3.0	MV2454-ND	.34	.27	.19
	5mm	Hi. Eff. Red	635	Diffused	2.2	10	65°	7.0	HLMP3301-ND	.34	.27	.19
7	5mm	Red	660	Diffused	1.65	20	90°	1.6	MV5023A-ND	.34	.27	.19
8	5mm	Red	660	Diffused	1.6	10	50°	1.5	MV50154-ND	.34	.27	.19
5	5mm	AlGaAs Red/Green	660/562	Diffused	2.0/2.0	20	75°	5.0/.5.0	MV5491A-ND	.46	.38	.26
10	5mm	Green/Hi. Eff. Red	565/635	Diffused	2.1/2.1	20	100°	6.0/6.0	MV5437-ND	.46	.38	.26
					Super Bright LEDs							
6	5mm	Super Red	660	Diffused	1.7	20	40°	200.0	MV8191-ND	.46	.38	.26
	5mm	Super Red	660	Clear	1.7	20	40°	370.0	MV8141-ND	.48	.39	.29
	5mm	Super Red	660	Clear	1.7	20	20°	1500.0	MV8104-ND	.37	.31	.21
	5mm	Super Yellow	590	Clear	2.1	20	20°	2400.0	MV8305-ND	.62	.47	.36
9	5mm	Super Red	660	Clear	1.7	20	12°	940.0	MV8112-ND	.37	.31	.21
	5mm	Super Red	660	Clear	1.7	20	12°	2400.0	MV8114-ND	.37	.31	.21
					PC Mount LEDs							
11	3mm	Yellow	585	Diffused	2.1	10	60°	2.0	MV5364MP4B-ND	.48	.36	.27
	3mm	Green	565	Diffused	2.2	20	60°	5.0	MV5464MP4B-ND	.48	.36	.27
12	5mm	Red/Green	660/565	Diffused	2.3	20	100°	6.0	MV54919MP7-ND	.90	.68	.51

** Long lead is cathode

Surface Mount LEDs

Fig.	Size	Color	Wave-Length pk (nm)	Lens	Vf (V) Typ.	If (mA) Typ.	View-ing Angle	Intensity (mcd) Typ.	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel	
										1	10	100		Size	Pricing
13	1206	Hi.Eff. Red	635	Clear	2.0	20	140°	6.0	QTLP650C2CT-ND	.38	.31	.22	—	—	—
	1206	Yellow	585	Clear	2.0	20	140°	6.0	QTLP650C3CT-ND	.38	.31	.22	QTLP650C3TR-ND	2,000	105.84/M
	1206	Green	565	Diffused	2.1	20	160°	6.5	QTLP650D4CT-ND	.45	.37	.25	QTLP650D4TR-ND	2,000	124.20/M
14	PLCC	Hi. Eff. Red	635	Clear	2.0	20	120°	10.0	QTLP670C2CT-ND	.44	.36	.25	QTLP670C2TR-ND	2,000	123.12/M
	PLCC	Green	565	Clear	2.1	20	120°	25.0	QTLP670C4CT-ND	.44	.36	.25	—	—	—

LED 7 Segment Displays

Color Wavelength (nm)	Digit Size In. (mm)	Dimensions Inch (mm) AxB	VF (V)	If (mA)	Io (µcd)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each		
								1	10	100
Red (660)	.30 (7.62)	.74 x .39 (18.75 x 9.80)	1.6	20	350	MAN71A-ND	—	1.62	1.30	.97
Hi.Eff. Red (635)	.30 (7.62)	.74 x .39 (18.75 x 9.80)	2.2	20	1900	—	MAN3980A-ND	1.88	1.50	1.13
Red (660)	.40 (10.16)	.74 x .39 (18.75 x 9.80)	1.6	20	350	MAN4710A-ND	—	1.65	1.32	.99
Green (562)	.40 (10.16)	.74 x .39 (18.75 x 9.80)	2.2	20	3200	MAN4410A-ND	—	1.88	1.50	1.13

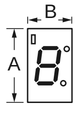

FAIRCHILD SEMICONDUCTOR

LED Arrays/LightBars

Fig.	Emitted Color	Vf	Io Typ. (mcd)	If (mA)	Digi-Key Part No.	Price Each 1	10	100
1	Red	2.0	23	20	HLMP2300-ND	.83	.63	.47
	Yellow	2.1	20	20	HLMP2400-ND	.86	.72	.58
2	Red	2.0	43	20	HLMP2655-ND	1.46	1.17	.88
	Yellow	2.1	35	20	HLMP2755-ND	1.46	1.17	.88
3	Red	2.0	80	20	HLMP2685FS-ND	1.60	1.28	.96
4	Yellow	2.0	4.5	20	MV53173-ND	1.35	1.13	.91
	Green	2.2	4.5	20	MV54173-ND	1.35	1.13	.91

Fig. 1

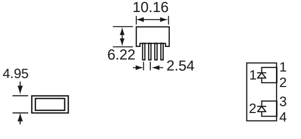

Fig. 2

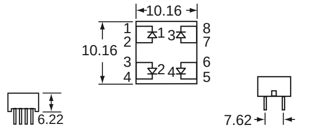

Fig. 3

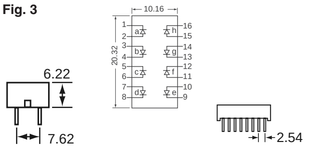

Fig. 4

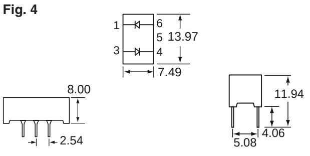

LITEON

LED, Dot Matrix Displays

Fig. 1 – 0.7" 5 x 7 Matrix

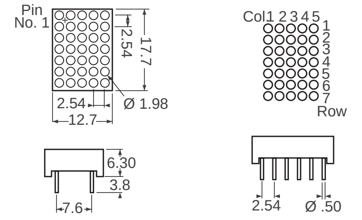

Fig. 2 – 1.2" 5 x 7 Matrix

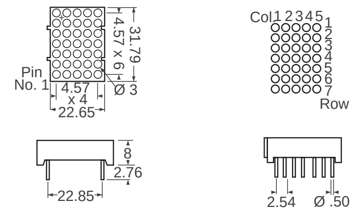

Fig. 3 – 2.0" 5 x 7 Matrix

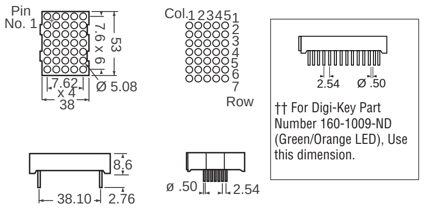

†† For Digi-Key Part Number 160-1009-ND (Green/Orange LED), Use this dimension.

Fig. 4 – 2.3" 5 x 8 Matrix

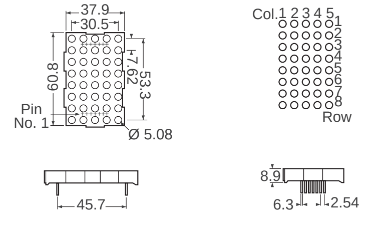

Fig. 5 – 2.0" 4 x 4 Bicolor Matrix

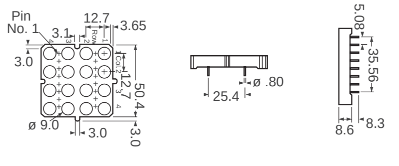

Fig. 6 – 4.0" 5 x 7 Matrix

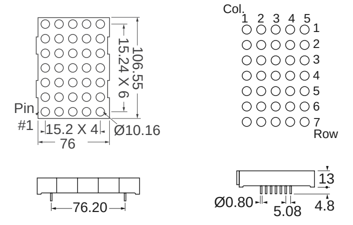

Fig.	Color	Peak Wavelength λ	Typ. Vf (V) (If = 20mA)	Max Average If (mA)	Typ. Iv (mcd)	Digi-Key Part No. Anode Row/ Cathode Column	Digi-Key Part No. Cathode Row/ Anode Column	Price Each 1	25	50	Lite-On Part No. Anode Row/ Cathode Column	Lite-On Part No. Cathode Row/ Anode Column
Standard LED Dot Matrix Displays												
1	Green	565	2.1	11	2.0*	160-1002-ND	—	3.13	2.82	2.50	LTP-757G	—
	Hi. Eff. Red	635	2.0	10	2.0*	160-1003-ND	—	3.75	3.38	3.00	LTP-757HR	—
3	Green/Red-Orange	565/630	2.1/2.0	13/13	4.8*	160-1009-ND††	—	6.58	5.92	5.26	LTP-2757AA	—
4	Hi. Eff. Red	635	2.1	10	4.8*	160-1014-ND	—	5.43	4.89	4.34	LTP-2158AHR	—
5	Green/Red-Orange	565/630	6.3/6.3	18/18	11†	160-1015-ND	—	13.45	12.11	10.76	LTP-2044A3-NB	—
6	Yellow	585	4.2	16	8†	160-1118-ND	—	21.73	19.56	17.38	LTP-4157AY	—
AlInGaP LED Dot Matrix Displays												
1	Super Red	639	2.0	13	3.4‡	160-1555-5-ND	160-1554-5-ND	3.83	3.45	3.06	LTP-757KR	LTP-747KR
	Red-Orange	621	2.05	13	3.4‡	160-1553-5-ND	160-1552-5-ND	3.83	3.45	3.06	LTP-757KA	LTP-747KA
	Yellow	595	2.05	13	3.4‡	160-1557-5-ND	160-1556-5-ND	3.83	3.45	3.06	LTP-757KY	LTP-747KY
2	Super Red	639	2.1	13	3.8‡	160-1567-5-ND	160-1566-5-ND	4.50	4.05	3.60	LTP-1557AKR	LTP-1457AKR
	Red-Orange	621	2.05	13	3.8‡	160-1565-5-ND	160-1564-5-ND	4.50	4.05	3.60	LTP-1557AKA	LTP-1457AKA
	Yellow	595	2.05	13	3.8‡	—	160-1568-5-ND	4.50	4.05	3.60	—	LTP-1457AKY
3	Super Red	639	2.0	13	4.6‡	160-1561-5-ND	160-1560-5-ND	4.95	4.46	3.96	LTP-2157AKR	LTP-2057AKR
	Red-Orange	621	2.05	13	4.6‡	160-1559-5-ND	160-1558-5-ND	4.95	4.46	3.96	LTP-2157AKA	LTP-2057AKA
	Yellow	595	2.05	13	4.6‡	160-1563-5-ND	160-1562-5-ND	4.95	4.46	3.96	LTP-2157AKY	LTP-2057AKY

* 80mA, 1/16 duty cycle † 48mA, 1/8 duty cycle ‡ 32mA 1/16 duty cycle †† See Physical Dimension Under Fig. 3

.8" Big Lamps with Universal Sphere Lens

FEATURES: • High luminous intensity • Categorized for luminous intensity • Excellent on-off contrast • Operating Temperature Range: -25°C ~ 85°C

Color	If Peak per chip (mA)	If Cont. per chip (mA)	Digi-Key Part No.	Pricing 1	10	100
Green	100	25	160-1025-ND	2.10	17.50	140.00
Hi. Eff. Red	100	25	160-1026-ND	2.10	17.50	140.00
Yellow	80	20	160-1027-ND	2.10	17.50	140.00

Absolute Max. Ratings at T_A = 25°C, VF = 2.1, VR = 5V

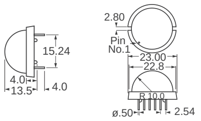

Bar Graph Array

Color	Continuous Forward Current	Forward Voltage (Vf)	Digi-Key Part No.	Pricing 1	10	100
Hi. Eff. Red	25	2.1	160-1066-ND	1.05	8.75	70.00
Green	25	2.1	160-1067-ND	1.05	8.75	70.00
Yellow	20	2.1	160-1068-ND	1.05	8.75	70.00

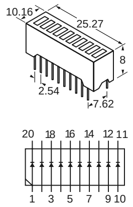

Fig. 1

Alphanumeric Displays

FEATURES:

- Low power requirements
- Excellent character appearance
- High contrast & brightness
- Wide viewing angle
- Categorized for luminous intensity

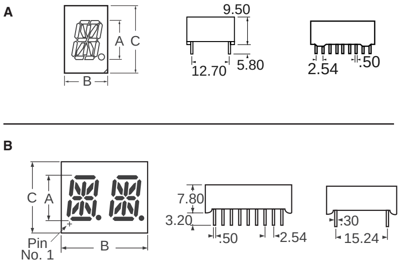

Fig. 2

Ultra-Large 7-Segment Displays

FEATURES:

- Continuous uniform segments
- Excellent character appearance
- High contrast & brightness
- Wide viewing angle
- Categorized for luminous intensity

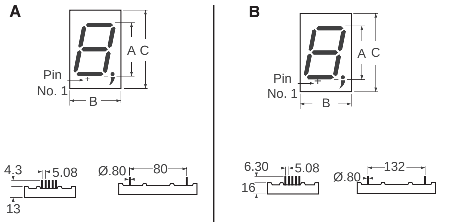

3” (76.20mm) Size

5” (127.00mm) Size

Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ. (D.P.)	If Continuous (mA) Max.	Typ. Iv (ucd)	@ If (mA)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Pricing 1	25	100
1-Digit LED Alphanumeric Displays															
1A	Direct Drive	.50 (12.7)	16.00 x 25.00	Hi. Eff. Red	Red	635	2.0	25	2200	10	160-1108-ND	—	2.13	47.81	148.75
	Direct Drive	.50 (12.7)	16.00 x 25.00	Yellow	Black	585	2.1	20	2200	10	160-1107-ND	—	2.13	47.81	148.75
	Direct Drive	.50 (12.7)	16.00 x 25.00	Green	Black	565	2.1	25	2200	10	160-1106-ND	—	2.13	47.81	148.75
2-Digit LED Alphanumeric Displays															
1B	Duplex	.54 (13.8)	25.2 x 21.15	Red-Orange	Gray	630	2.0	25	2300	10	160-1011-ND	160-1010-ND	3.15	70.88	220.50
	Duplex	.54 (13.8)	25.2 x 21.15	Green	Gray	565	2.1	25	2300	10	160-1013-ND	160-1012-ND	3.15	70.88	220.50
Ultra-Large 7-Segment LED Numeric Displays															
2A	Direct Drive	3.0 (76.20)	70.00 x 110.0	Hi. Eff. Red	Black	635	12.0 (4.0)	40	30000	20	160-1018-ND	160-1017-ND	15.76	285.65	985.00
	Direct Drive	3.0 (76.20)	70.00 x 110.0	Green	Black	565	12.6 (4.2)	40	30000	20	160-1020-ND	160-1019-ND	16.80	304.50	1050.00
2B	Direct Drive	5.0 (127.0)	108.0 x 180.0	Hi. Eff. Red	Black	635	20.0 (4.0)	60	60000	30	160-1022-ND	160-1021-ND	36.26	657.21	2266.25
	Direct Drive	5.0 (127.0)	108.0 x 180.0	Green	Black	565	21.0 (4.2)	60	60000	30	160-1024-ND	160-1023-ND	36.26	657.21	2266.25

Absolute Maximum Ratings at T_A = 25°C

Seven Segment Displays

Fig. 1

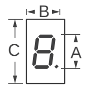

Fig. 2

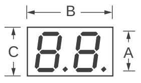

Fig. 3

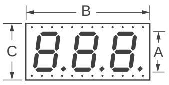

Fig. 4

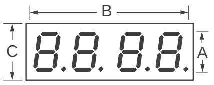

Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ.	If Continuous (mA) Max.	Typ. Iv (ucd)	@ If (mA)	Digi-Key Part No. Common Anode	Digi-Key Part No. Common Cathode	Price Each 1	25	100
AlInGap Seven-Segment Single-Digit Displays															
1	Direct Drive	.39 (10.0)	9.70 x 12.90	Super Red	Lt.Gray	639	2.00	25	650	1	160-1527-5-ND	—	.68	.50	.43
	Direct Drive	.39 (10.0)	9.70 x 12.90	Yellow-Orange	Lt.Gray	611	2.05	25	650	1	160-1526-5-ND	—	.68	.50	.43
	Direct Drive	.39 (10.0)	9.70 x 12.90	Yellow	Lt.Gray	588	2.05	25	650	1	160-1525-5-ND	—	.83	.61	.52
	Direct Drive	.39 (10.0)	9.70 x 12.90	Super Red	Gray	639	2.00	25	520	1	160-1532-5-ND	160-1533-5-ND	.72	.53	.45
	Direct Drive	.39 (10.0)	9.70 x 12.90	Yellow-Orange	Gray	611	2.05	25	650	1	160-1530-5-ND	160-1531-5-ND	.72	.53	.45
	Direct Drive	.39 (10.0)	9.70 x 12.90	Yellow	Gray	588	2.05	25	867	1	160-1528-5-ND	160-1529-5-ND	.72	.53	.45
Blue Seven-Segment Single-Digit Displays															
1	Direct Drive	.28 (7.00)	7.4 x 10.0	Blue	Gray	428	3.8	25	3000	10	160-1513-5-ND	160-1514-5-ND	3.62	2.63	2.27
	Direct Drive	.39 (10.00)	9.70 x 12.9	Blue	Gray	428	3.8	25	3600	10	160-1515-5-ND	160-1516-5-ND	3.70	2.69	2.32
	Direct Drive	.56 (14.22)	12.4 x 17.1	Blue	Gray	428	3.8	25	4300	10	160-1517-5-ND	160-1518-5-ND	3.66	2.66	2.29
AlInGap Seven-Segment Dual-Digit Displays															
2	Duplex	.39 (10.0)	19.86 x 12.8	Super Red	Gray	639	2.00	25	850	1	160-1538-5-ND	160-1539-5-ND	1.20	.87	.75
	Duplex	.39 (10.0)	19.86 x 12.8	Yellow-Orange	Gray	611	2.05	25	650	1	160-1536-5-ND	160-1537-5-ND	1.20	.87	.75
	Duplex	.39 (10.0)	19.86 x 12.8	Yellow	Gray	588	2.05	25	650	1	160-1534-5-ND	160-1535-5-ND	1.20	.87	.75
Blue Seven-Segment Dual-Digit Displays															
2	Duplex	.28 (7.00)	15.02 x 10.00	Blue	Gray	428	3.8	25	3000	10	160-1519-5-ND	160-1520-5-ND	7.24	5.25	4.53
	Duplex	.39 (10.0)	19.86 x 12.8	Blue	Gray	428	3.8	25	3600	10	160-1521-5-ND	160-1522-5-ND	7.32	5.31	4.58
	Duplex	.56 (14.22)	25.0 x 17.1	Blue	Gray	428	3.8	25	4300	10	160-1523-5-ND	160-1524-5-ND	7.32	5.31	4.58
AlInGap Seven-Segment Triple-Digit Displays															
3	Multiplex	.39 (10.0)	30.02 x 12.8	Super Red	Gray	639	2.00	25	650	1	160-1544-5-ND	160-1545-5-ND	2.16	1.57	1.35
	Multiplex	.39 (10.0)	30.02 x 12.8	Yellow-Orange	Gray	611	2.05	25	650	1	—	160-1543-5-ND	2.16	1.57	1.35
	Multiplex	.39 (10.0)	30.02 x 12.8	Yellow	Gray	588	2.05	25	650	1	160-1540-5-ND	160-1541-5-ND	2.16	1.57	1.35
AlInGap Seven-Segment Quad-Digit Displays															
4	Multiplex	.39 (10.0)	40.18 x12.8	Super Red	Gray	639	2.00	25	650	1	160-1550-5-ND	160-1551-5-ND	2.40	1.74	1.50
	Multiplex	.39 (10.0)	40.18 x12.8	Yellow-Orange	Gray	611	2.05	25	650	1	160-1548-5-ND	160-1549-5-ND	2.40	1.74	1.50
	Multiplex	.39 (10.0)	40.18 x12.8	Yellow	Gray	588	2.05	25	650	1	160-1546-5-ND	160-1547-5-ND	2.40	1.74	1.50

Fig.	Description	Digit Size In. (mm) (A)	Dimensions (mm) (B) x (C)	Emitted Color	Face Color	Peak Wavelength (nm)	Vf Per segment (V) Typ.	If Continuous (mA) Max.	Typ. Iv (ucd)	@ If (mA)	Digi-Key Part No.	Price Each 1	25	100
Common Anode														
1	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	632	2.1	25	12,000	10	160-1571-5-ND	.68	.50	.43
	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	650	2.1	25	9,000	10	160-1572-5-ND	.66	.48	.42
	Direct Drive	.30 (7.62)	7.62 x 12.7	Green	Gray	565	2.1	25	1,600	10	160-1577-5-ND	.80	.58	.50
	Direct Drive	.39 (10.0)	9.7 x 12.9	Red	Lt. Gray	650	2.1	25	9,750	10	160-1578-5-ND	.74	.54	.47
	Direct Drive	.56 (14.22)	12.4 x 17.1	Green	Gray	565	2.1	25	2,400	10	160-1575-5-ND	.66	.48	.42
Common Cathode														
1	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	632	2.1	25	12,000	10	160-1570-5-ND	.86	.63	.54
	Direct Drive	.30 (7.62)	7.62 x 12.7	Red	Lt. Gray	650	2.1	25	9,000	10	160-1573-5-ND	.86	.63	.54
	Direct Drive	.30 (7.62)	7.62 x 12.7	Green	Gray	565	2.1	25	1,600	10	160-1574-5-ND	.80	.58	.50
	Direct Drive	.56 (14.22)	12.4 x 17.1	Red	Lt. Gray	632	2.1	25	17,000	10	160-1576-5-ND	.88	.64	.55

Dim. in mm

Fig. 1

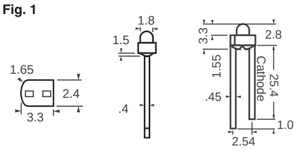

Fig. 2

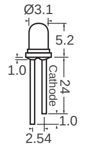

Fig. 3

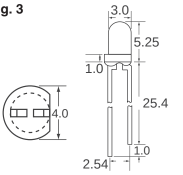

Fig. 4

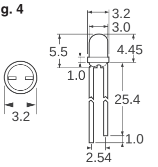

Fig. 5

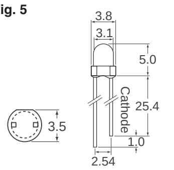

Fig. 6

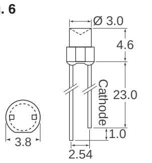

Fig. 7

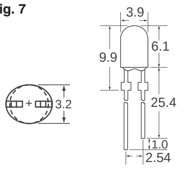

Fig. 8

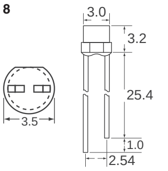

Fig. 9

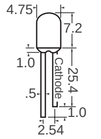

Fig. 10

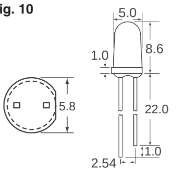

Fig. 11

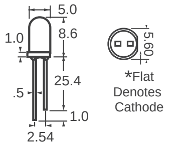

Fig. 12

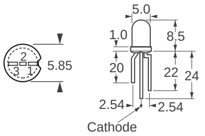

Fig. 13

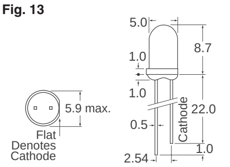

Fig. 14

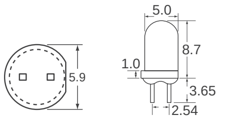

Fig. 15

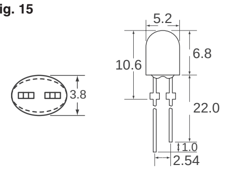

Fig. 16

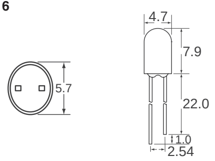

Fig. 17

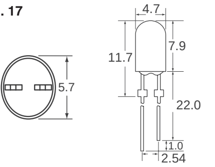

Fig. 18

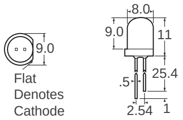

Fig. 19

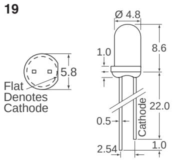

Fig. 20

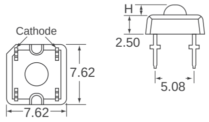

Part No.	H
LTL911xxx	1.50
LTL912xxx	1.90
LTL914xxx	1.90

Fig. 21

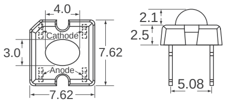

Fig. 22

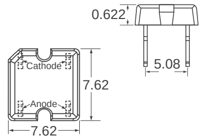

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv Typ. (mcd)	@ (mA)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing			Lite-On Part No.
											1	10	100	
1	1.8mm Dot Point	Hi. Eff. Red	Red Diff.	635	2.0	30	12.6	10	38	160-1084-ND	.17	1.38	11.00	LTL-709E
		Yellow	Yellow Diff.	585	2.1	20	12.6	10	38	160-1085-ND	.17	1.38	11.00	LTL-709Y
		STD. Green	Green Diff.	560	2.1	30	8.7	10	38	160-1086-ND	.24	2.00	16.00	LTL-709L
2	T-1 Double Flange	Super Red	Red Diff.	639	2.0	30	90	20	60	160-1660-ND	.11	.93	7.40	LTL1CHKR
		Super Red	Water Clear	639	2.0	30	250	20	45	160-1661-ND	.13	1.08	8.60	LTL1CHKRKNN
		Hi. Eff. Red	Red Diff.	635	2.0	30	12.6	10	60	160-1708-ND	.09	.73	5.80	LTL-1CHE
		Hi. Eff. Red	Red Trans.	635	2.0	30	19	10	45	160-1704-ND	.09	.73	5.80	LTL-1CHEE
		Amber-Yellow	Water Clear	595	2.05	30	320	20	45	160-1664-ND	.13	1.08	8.60	LTL1CHKYKNN
		Amber-Yellow	Water Clear	595	2.05	30	339	20	45	160-1663-ND	.13	1.08	8.60	LTL1CHKYK
		Yellow	Water Clear	588	2.05	30	320	20	45	160-1662-ND	.13	1.08	8.60	LTL1CHKSKNN
		Yellow	Yellow Trans.	585	2.1	20	40	10	45	160-1709-ND	.09	.73	5.80	LTL-1CHYE
		Green	Water Clear	575	2.05	30	320	20	45	160-1659-ND	.14	1.15	9.20	LTL1CHKGKNN
		Green	Green Diff.	565	2.1	30	12.6	10	60	160-1710-ND	.09	.73	5.80	LTL-1CHG
		Blue	Water Clear	468	3.5	30	180	20	35	160-1604-ND	1.40	11.68	93.40	LTL1CHCBK3
		Blue	Water Clear	468	4.0	30	310	20	30	160-1600-ND	.60	5.00	40.00	LTL1CHTBK2
		Blue	Water Clear	468	3.7	30	400	20	30	160-1605-ND	1.57	13.08	104.60	LTL1CHCBK4
		Blue	Water Clear	468	3.5	30	520	20	30	160-1601-ND	.65	5.45	43.60	LTL1CHTBK3
		Blue	Water Clear	468	3.5	30	680	20	30	160-1602-ND	.73	6.10	48.80	LTL1CHTBK4
		Blue	Water Clear	468	3.7	30	680	20	30	160-1606-ND	1.96	16.33	130.60	LTL1CHCBK5
		Blue	Water Clear	468	3.5	30	880	20	30	160-1603-ND	.92	7.63	61.00	LTL1CHTBK5
3	T-1	Red	Water Clear	632	2.05	30	880	20	22	160-1665-ND	.12	1.00	8.00	LTL42EKEKNN
		Green	Green Diff.	565	2.1	30	12.6	10	40	160-1712-ND	.09	.73	5.80	LTL-4231
		White	Water Clear	—	3.7	30	2600	20	25	160-1718-ND	1.39	11.55	92.40	LTL42CW65AT
		White	Water Clear	—	3.6	100	2600	30	25	160-1727-5-ND	1.14	9.50	76.00	LTW-420C5
4	T-1 Ultrabright	Red	Red Diff.	660	1.8	40	60	20	60	160-1035-ND	.20	1.68	13.40	LTL-4261N
		Red	Water Clear	660	1.8	40	170	20	45	160-1034-ND	.19	1.55	12.40	LTL-4266N
	T-1	Super Red	Water Clear	639	2.0	30	180	20	56	160-1668-ND	.13	1.08	8.60	LTL42NKRKNN
		Hi. Eff. Red	Red Trans.	635	2.0	30	29	10	45	160-1140-ND	.19	1.45	10.15	LTL-4222N
		Hi. Eff. Red	Red Diff.	635	2.0	30	8.7	10	60	160-1139-ND	.19	1.45	10.15	LTL-4221N
		Red	Water Clear	632	2.05	30	250	20	56	160-1667-ND	.13	1.08	8.60	LTL42KE6N
		Red-Orange	Water Clear	630	2.0	30	60	10	45	160-1141-ND	.19	1.45	10.15	LTL-4296N
	T-1 Bi-Color	Red-Orange/Green	White Diff.	630/565	2.0/2.1	30/30	4.8/4.8	20	200	160-1058-ND	.35	2.93	23.40	LTL-14CHJ
	T-1	Yellow	Yellow Trans.	585	2.1	20	19	10	45	160-1146-ND	.19	1.45	10.15	LTL-4252N
		Yellow	Water Clear	585	2.1	20	40	10	45	160-1147-ND	.19	1.45	10.15	LTL-4256N
		Yellow	Yellow Diff.	585	2.1	20	5.6	10	60	160-1145-ND	.19	1.45	10.15	LTL-4251N
		Green	Green Trans.	565	2.1	30	40	10	45	160-1143-ND	.19	1.45	10.15	LTL-4232N
		Green	Water Clear	565	2.1	30	40	10	45	160-1144-ND	.19	1.45	10.15	LTL-4236N
		Green	Green Diff.	565	2.1	30	12.6	10	60	160-1142-ND	.19	1.45	10.15	LTL-4231N
		White	Water Clear	—	3.5	100	1100	30	45	160-1734-5-ND	1.16	9.63	77.00	LTW-42NC5
5	3.8mm	White	Water Clear	—	3.5	100	520	30	90	160-1730-5-ND	1.16	9.63	77.00	LTW-1KHC5
6	T-1 - Flat Top	White	Water Clear	—	3.5	100	85	30	130	160-1736-5-ND	1.16	9.63	77.00	LTW-815C4
7	Oval - No Flange	Yellow	Yellow Diff.	594	2.35	50	680	20	110 Hort./50 Vert.	160-1616-ND	.43	3.55	28.40	LTL3HMSSS
8	T-1 - Flat Top	Amber-Yellow	Amber Trans.	598	2.05	30	60	20	120	160-1699-ND	.20	1.68	13.40	LTL77HKYE1
		Amber-Yellow	Amber Trans.	595	2.05	30	50	20	150	160-1700-ND	.20	1.68	13.40	LTL77HKYTNN
		White	Water Clear	—	3.5	100	140	30	140	160-1735-5-ND	1.16	9.63	77.00	LTW-77HC4
9	T-1 3/4 No Flange	Hi. Eff. Red	Red Diff.	635	2.0	30	60	10	60	160-1087-ND	—	.73	5.80	LTL-10223W
		Yellow	Yellow Diff.	585	2.1	20	12.6	10	60	160-1088-ND	—	.73	5.80	LTL-10253W
		Green	Green Diff.	565	2.1	30	40	10	60	160-1089-ND	—	.73	5.80	LTL-10233W
	T-1 3/4	White	Water Clear	—	3.5	100	6000	30	20	160-1729-5-ND	1.16	9.63	77.00	LTW-102C4
10	T-1 3/4 - Tapered	Super Red	Water Clear	639	1.9	50	4200	20	12	160-1698-ND	.24	2.03	16.20	LTL353QRKNN
		Green	Water Clear	525	3.5	30	6000	20	8	160-1717-ND	.92	7.70	61.60	LTL-353TGK

(Continued)

0

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Iv Typ. (mcd)	@ (mA)	Viewing Angle (2x Theta)	Digi-Key Part No.	Pricing			Lite-On Part No.
											1	10	100	
10	T-1 3/4 - Tapered	Blue	Water Clear	468	3.5	30	1900	20	8	160-1716-ND	.92	7.70	61.60	LTL-353TBK
	T-1 3/4	White	Water Clear	—	3.5	100	2600	30	30	160-1733-5-ND	1.16	9.63	77.00	LTW-2V3C5
11	T-1 3/4 Bi-Color	Red-Orange/Green	White Diff.	565/630	2.1/2.0	30/30	19/19	20	50	160-1037-ND	.35	2.93	23.40	LTL-298WJ
	T-1 3/4 Ultrabright Bi-Color	Red/Green	White Diff.	660/565	1.8/2.1	40/30	90/40	20	60	160-1038-ND	.37	3.05	24.40	LTL-293SJW
	T-1 3/4	Red	Red Diff.	697	2.1	15	3.7	10	36	160-1713-ND	.09	.73	5.80	LTL-4213
		Hi. Eff. Red	Red Trans.	635	2.0	30	90	10	16	160-1128-ND	.19	1.45	10.15	LTL-4224
		Hi. Eff. Red	Red Diff.	635	2.0	30	19	10	36	160-1127-ND	.19	1.45	10.15	LTL-4223
		Yellow	Yellow Trans.	585	2.1	20	90	10	16	160-1134-ND	.19	1.45	10.15	LTL-4254
		Yellow	Yellow Diff.	585	2.1	20	19	10	36	160-1133-ND	.19	1.45	10.15	LTL-4253
		Green	Green Trans.	565	2.1	30	60	10	16	160-1131-ND	.14	1.10	7.70	LTL-4234
		Green	Water Clear	565	2.1	30	90	10	16	160-1132-ND	.19	1.45	10.15	LTL-4238
		Green	Green Diff.	565	2.1	30	19	10	36	160-1130-ND	.19	1.45	10.15	LTL-4233
		White	Water Clear	—	3.7	30	4800	20	20	160-1719-ND	1.39	11.55	92.40	LTL33BCWK5AT
12	T-1 3/4 Ultrabright Bi-Color	Red/Green	White Diff.	697/565	2.1	15/30	5.6/19	10	30	160-1715-ND	.35	2.93	23.40	LTL-30EFJ
		Red-Orange/Green	White Diff.	630/565	2.0/2.1	30/30	40/29	20	30	160-1057-ND	.35	2.93	23.40	LTL-30EHJ
		Yellow/Green	White Diff.	585/565	2.1	20/30	29/29	20	30	160-1714-ND	.35	2.93	23.40	LTL-30EDJ
13	T-1 3/4	Super Red	Water Clear	639	1.9	50	2400	20	15	160-1674-ND	.35	2.88	23.00	LTL2H3VRKNT
		Super Red	Water Clear	639	2.0	30	800	20	22	160-1678-ND	.13	1.08	8.60	LTL2P3KRK
		Super Red	Water Clear	639	2.0	30	500	20	30	160-1685-ND	.13	1.08	8.60	LTL2R3KRK
		Super Red	Water Clear	639	1.9	50	500	20	30	160-1689-ND	.32	2.70	21.60	LTL2R3QRK
		Super Red	Water Clear	639	1.9	50	990	20	30	160-1498-ND	.43	3.60	28.80	LTL-2R3VRKNT
		Super Red	Water Clear	639	2.2	50	3200	20	30	160-1658-ND	.41	3.45	27.60	LTL2R3SRKNE
		Hi-Eff. Red	Red Diff.	635	2.0	30	19	10	50	160-1705-ND	.09	.73	5.80	LTL-307E
		Hi-Eff. Red	Red Trans.	635	2.0	30	90	10	40	160-1701-ND	.09	.73	5.80	LTL-307EE
		Red	Red Diff.	697	2.1	15	5.6	10	50	160-1707-ND	.09	.73	5.80	LTL-307P
		Red	Water Clear	639	2.0	50	6350	20	15	160-1652-ND	.41	3.45	27.60	LTL2H3SEK
		Red	Water Clear	639	2.0	50	4800	20	22	160-1654-ND	.41	3.45	27.60	LTL2P3SEK
		Red	Water Clear	639	2.0	50	3700	20	30	160-1656-ND	.41	3.45	27.60	LTL2R3SEK
		Red	Water Clear	632	2.05	30	1700	20	15	160-1669-ND	.13	1.08	8.60	LTL2H3KEK
		Red	Water Clear	632	2.0	50	3100	20	15	160-1672-ND	.32	2.63	21.00	LTL2H3VEKNT
		Red	Water Clear	632	2.05	30	700	20	30	160-1682-ND	.13	1.08	8.60	LTL2R3KEK
		Red	Water Clear	632	2.0	50	1200	20	30	160-1499-ND	.43	3.60	28.80	LTL-2R3VEKNT
		Red-Orange	Water Clear	624	2.0	50	1300	20	30	160-1500-ND	.43	3.60	28.80	LTL-2R3VHKNT
		Red-Orange	Water Clear	621	2.0	50	3400	20	15	160-1671-ND	.35	2.88	23.00	LTL2H3VAKNT
		Red-Orange	Water Clear	621	2.05	30	700	20	30	160-1681-ND	.13	1.08	8.60	LTL2R3KAK
		Super Orange	Water Clear	621	2.0	50	1300	20	30	160-1501-ND	.43	3.60	28.80	LTL-2R3VAKNT
		Yellow-Orange	Water Clear	611	2.0	50	3400	20	15	160-1673-ND	.35	2.88	23.00	LTL2H3VFKNT
		Yellow-Orange	Water Clear	611	2.0	50	700	20	30	160-1688-ND	.32	2.70	21.60	LTL2R3QFK
		Yellow-Orange	Water Clear	611	2.05	30	700	20	30	160-1683-ND	.13	1.08	8.60	LTL2R3KFK
		Yellow-Orange	Water Clear	611	2.0	50	1300	20	30	160-1502-ND	.43	3.60	28.80	LTL-2R3VFKNT
		Amber-Yellow	Water Clear	595	2.0	50	7800	20	8	160-1496-ND	.43	3.60	28.80	LTL-2F3VYKNT
		Amber-Yellow	Water Clear	595	2.0	50	3400	20	15	160-1676-ND	.35	2.88	23.00	LTL2H3VYKNT
		Amber-Yellow	Water Clear	598	2.0	50	1300	20	30	160-1503-ND	.43	3.60	28.80	LTL-2R3VYKNT
		Amber-Yellow	Water Clear	595	2.0	50	700	20	30	160-1690-ND	.32	2.70	21.60	LTL2R3QYK
		Amber-Yellow	Water Clear	595	2.05	30	700	20	30	160-1687-ND	.13	1.08	8.60	LTL2R3KYK
		Amber	Water Clear	594	2.15	50	5500	20	15	160-1653-ND	.41	3.45	27.60	LTL2H3SYK
		Amber	Water Clear	594	2.15	50	3700	20	22	160-1655-ND	.41	3.45	27.60	LTL2P3SYK
		Amber	Water Clear	594	2.15	50	2800	20	30	160-1657-ND	.41	3.38	27.00	LTL2R3SYK
		Yellow	Water Clear	588	2.0	50	3100	20	15	160-1675-ND	.32	2.63	21.00	LTL2H3VSKNT
		Yellow	Water Clear	588	2.05	30	1700	20	15	160-1670-ND	.13	1.08	8.60	LTL2H3KSK
		Yellow	Water Clear	588	2.0	50	1000	20	22	160-1680-ND	.32	2.70	21.60	LTL2P3QSK
		Yellow	Water Clear	588	2.05	30	700	20	30	160-1686-ND	.13	1.08	8.60	LTL2R3KSK
		Yellow	Water Clear	588	2.0	50	1200	20	30	160-1504-ND	.43	3.60	28.80	LTL-2R3VSKNT
		Yellow	Yellow Diff.	585	2.1	20	29	10	50	160-1703-ND	.09	.73	5.80	LTL-307Y
		Green	Water Clear	574	2.1	30	980	20	22	160-1677-ND	.15	1.25	10.00	LTL2P3KGKNN
		Green	Green Diff.	574	2.1	30	150	20	40	160-1684-ND	.15	1.25	10.00	LTL2R3KG
		Green	Green Diff.	565	2.1	30	19	10	50	160-1706-ND	.09	.73	5.80	LTL-307G
		Green	Green Trans.	565	2.1	30	60	10	40	160-1702-ND	.09	.73	5.08	LTL-307GE
		Green	Water Clear	525	3.5	30	1900	20	30	160-1615-ND	.83	6.93	55.40	LTL2T3TGK6
		Blue	Water Clear	468	3.5	30	1900	20	15	160-1611-ND	.84	7.00	56.00	LTL2P3TBK5
		Blue	Water Clear	468	4.0	30	240	20	30	160-1607-ND	.52	4.30	34.40	LTL2T3TBK2
		Blue	Water Clear	468	3.5	30	400	20	30	160-1608-ND	.56	4.63	37.00	LTL2T3TBK3
		Blue	Water Clear	468	3.5	30	680	20	30	160-1609-ND	.62	5.15	41.20	LTL2T3TBK4
		Blue	Water Clear	468	3.5	30	880	20	30	160-1610-ND	.99	8.25	66.00	LTL2T3TBK5
		White	Water Clear	—	3.3	100	13,000	30	15	160-1728-5-ND	1.16	9.63	77.00	LTW-2S3D7
		White	Water Clear	—	3.5	100	4200	30	15	160-1731-5-ND	1.16	9.63	77.00	LTW-2E3C4
		White	Water Clear	—	3.6	100	1800	30	56	160-1732-5-ND	1.16	9.63	77.00	LTW-2H7C5S
14	T-1 3/4	Amber-Yellow	Water Clear	595	2.05	30	1000	20	22	160-1679-ND	.13	1.08	8.60	LTL2P3KYKP
15	Oval - No Flange	Red	Water Clear	639	2.2	50	880	20	100 Hort./40 Vert.	160-1619-ND	.34	2.83	22.60	LTL5H3SRKS
16	Oval - No Flange	Super Red	Water Clear	639	2.2	50	1500	20	70 Hort./35 Vert.	160-1620-ND	.31	2.60	20.80	LTL5V3SRK
17	Oval - No Flange	Amber	Yellow Diff.	591	2.35	50	1150	20	70 Hort./35 Vert.	160-1621-ND	.34	2.83	22.60	LTL5V3SSS
18	8mm	Yellow	Yellow Diff	565	2.1	30	12.6	10	46	160-1041-ND	.27	2.28	18.20	LTL-327Y
19	T-1 3/4	White	Water Clear	—	3.6	100	4800	30	20	160-1726-5-ND	1.14	9.50	76.00	LTW-337C5
20	7.62mm Square	Super Red	Water Clear	639	2.15	70	1884	70	50	160-1509-ND	.53	4.38	35.00	LTL-912VRKSA
		Super Red	Water Clear	639	2.15	70	942	70	70	160-1505-ND	.53	4.38	35.00	LTL-911VRKSA
		Red	Water Clear	638	2.50	70	7500	70	30	160-1631-ND	.51	4.23	33.80	LTL914SEKS
		Red	Water Clear	638	2.50	70	3375	70	60	160-1625-ND	.46	3.85	30.80	LTL912SEKSA
		Red	Water Clear	638	2.50	70	2250	70	90	160-1622-ND	.46	3.85	30.80	LTL911SEKSA
		Red	Water Clear	632	2.15	70	2508	70	50	160-1510-ND	.53	4.38	35.00	LTL-912VEKSA
		Red	Water Clear	632	2.15	70	1254	70	70	160-1506-ND	.53	4.38	35.00	LTL-911VEKSA
		Red-Orange	Water Clear	624	2.15	70	2508	70	50	160-1511-ND	.53	4.38	35.00	LTL-912VHKSA
		Red-Orange	Water Clear	624	2.15	70	1254	70	70	160-1507-ND	.53	4.38	35.00	LTL-911VHKSA
		Amber	Water Clear	598	2.15	70	2508	70	50	160-1512-ND	.53	4.38	35.00	LTL-912VYKSA
		Amber	Water Clear	598	2.15	70	1254	70	70	160-1508-ND	.53	4.38	35.00	LTL-911VYKSA
		Amber	Water Clear	596	2.50	70	4180	70	30	160-1632-ND	.51	4.23	33.80	LTL914SYKS
		Amber	Water Clear	596	2.50	70	1254	70	90	160-1624-ND	.46	3.85	30.80	LTL911SYKSA
		Blue	Water Clear	465	4.3	50	630	50	56	160-1636-ND	1.89	15.78	126.20	LTL911CBKS5
		Blue	Water Clear	465	4.0	50	770	50	60	160-1639-ND	1.76	14.63	117.00	LTL912TBKS
		Blue	Water Clear	465	4.0	50	550	50	75	160-1637-ND	1.50	12.50	100.00	LTL911TBKS
21	7.62mm Square - Oval	Red	Water Clear	638	2.50	70	3000	70	100 Hort./40 Vert.	160-1628-ND	.56	4.63	37.00	LTL913SEKS
		Amber	Water Clear	596	2.50	70	1672	70	100 Hort./40 Vert.	160-1630-ND	.56	4.63	37.00	LTL913SYKS
22	7.62mm Square	Amber	Water Clear	596	2.50	70	627	70	120	160-1635-ND	.56	4.63	37.00	LTL915SYKS
		Green	Water Clear	518	4.0	50	480	50	120	160-1642-ND	1.89	15.78	126.20	LTL915TGKS
		Blue	Water Clear	465	4.0	50	165	50	120	160-1641-ND	1.89	15.78	126.20	LTL915TBKS

Fig. 1 — 1206

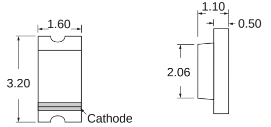

Fig. 2 — 1210

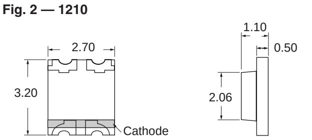

Fig. 3 — 0805

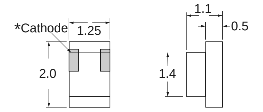

* Anode on part 160-1176-1

Fig. 4 — 0805

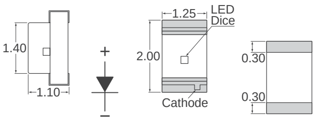

Fig. 5 — 0805 Super Thin

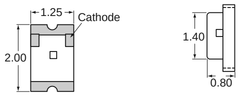

Fig. 6 — 0603

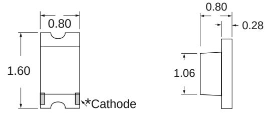

* Anode on part 160-1181-1

Fig. 7 — 0603

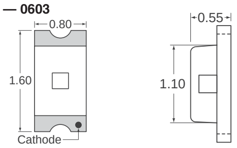

Fig. 8 — 0603 Super Thin

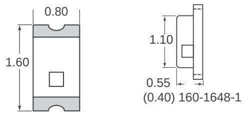

Fig. 9 — 0603 Super Thin

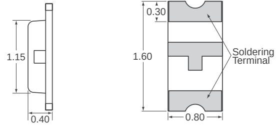

Fig. 10 — 0605 Dual LED

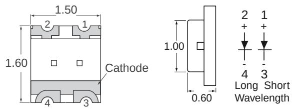

Fig. 11 — 1206 (Rear Mount)

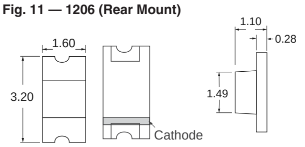

Fig. 12

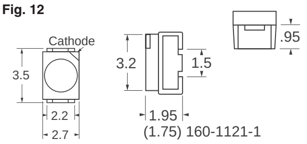

Fig. 13 — 0805 Right Angle

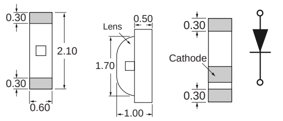

Fig. 14 — 0603 Right Angle

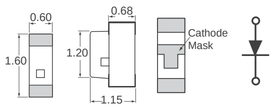

Fig. 15 — 1208 Right Angle

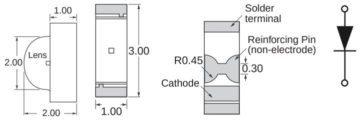

Fig. 16 — Domed

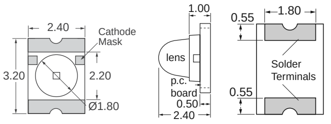

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If (mA) Max.	Iv Typ. (mcd) @ mA		Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Lite-On Part No.
										1	10	100		Size	Pricing	
1	Red	Water Clear	660	1.8	40	25	20	130	160-1167-1-ND	.11	.95	7.60	160-1167-2-ND	3,000	57.00/M	LTST-C150CKT
	Red Orange		630	2.0	30	6	10	130	160-1168-1-ND	.11	.88	7.00	160-1168-2-ND	3,000	52.50/M	LTST-C150EKT
	Amber		610	2.1	30	6	10	130	160-1166-1-ND	.11	.88	7.00	160-1166-2-ND	3,000	52.50/M	LTST-C150AKT
	Yellow		585	2.1	20	6	10	130	160-1170-1-ND	.11	.88	7.00	160-1170-2-ND	3,000	52.50/M	LTST-C150YKT
	Green		565	2.1	30	6	10	130	160-1169-1-ND	.11	.88	7.00	160-1169-2-ND	3,000	52.50/M	LTST-C150GKT
	White	Yellow	—	3.2	100	260	20	130	160-1737-1-ND	.55	4.58	36.60	160-1737-2-ND	3,000	274.50/M	LTW-150TK
2	Green/Yellow	Water Clear	565/585	2.1/2.1	30/20	7/6	10	130/130	160-1171-1-ND	.17	1.45	11.60	160-1171-2-ND	3,000	87.00/M	LTST-C155GYKT
	Green/Red Orange		565/630	2.1/2.0	30/30	7/6	10	130/130	160-1172-1-ND	.17	1.45	11.60	160-1172-2-ND	3,000	87.00/M	LTST-C155GEKT
3	Red	Water Clear	660	1.8	40	10	10	130	160-1176-1-ND	.12	1.00	8.00	160-1176-2-ND	3,000	60.00/M	LTST-C170CKT
	Red Orange		630	2.0	30	2	10	130	160-1178-1-ND	.11	.93	7.40	160-1178-2-ND	3,000	55.50/M	LTST-C170EKT
	Amber		610	2.1	30	2	10	130	160-1177-1-ND	.11	.93	7.40	160-1177-2-ND	3,000	55.50/M	LTST-C170AKT
	Yellow		585	2.1	20	6	10	130	160-1175-1-ND	.11	.93	7.40	160-1175-2-ND	3,000	55.50/M	LTST-C170YKT
	Green		565	2.1	30	6	10	130	160-1179-1-ND	.11	.93	7.40	160-1179-2-ND	3,000	55.50/M	LTST-C170GKT
4	White	Yellow	—	3.3	100	281	20	130	160-1738-1-ND	.55	4.58	36.60	160-1738-2-ND	3,000	274.50/M	LTW-170TK
5	Red	Water Clear	660	1.8	40	25	20	130	160-1421-1-ND	.15	1.14	9.50	160-1421-2-ND	3,000	57.00/M	LTST-C171CKT
	Red Orange		630	2.0	30	6	20	130	160-1422-1-ND	.14	1.05	8.75	160-1422-2-ND	3,000	52.50/M	LTST-C171EKT
	Amber		610	2.1	30	4.5	20	130	160-1419-1-ND	.14	1.05	8.75	160-1419-2-ND	3,000	52.50/M	LTST-C171AKT
	Yellow		585	2.1	20	4.5	20	130	160-1431-1-ND	.14	1.05	8.75	160-1431-2-ND	3,000	52.50/M	LTST-C171YKT
	Green		565	2.1	30	12	20	130	160-1423-1-ND	.14	1.05	8.75	160-1423-2-ND	3,000	52.50/M	LTST-C171GKT
6	Red	Water Clear	660	1.8	40	10	10	130	160-1181-1-ND	.10	.83	6.60	160-1181-2-ND	3,000	49.50/M	LTST-C190CKT
	Red Orange		630	2.0	30	2	10	130	160-1182-1-ND	.09	.75	6.00	160-1182-2-ND	3,000	45.00/M	LTST-C190EKT
	Amber		610	2.1	30	2	10	130	160-1180-1-ND	.09	.75	6.00	160-1180-2-ND	3,000	45.00/M	LTST-C190AKT
	Yellow		585	2.1	20	6	10	130	160-1184-1-ND	.09	.75	6.00	160-1184-2-ND	3,000	45.00/M	LTST-C190YKT
	Green		565	2.1	30	6	10	130	160-1183-1-ND	.09	.75	6.00	160-1183-2-ND	3,000	45.00/M	LTST-C190GKT
7	White	Yellow	—	2.93	100	70	20	130	160-1724-1-ND	.54	4.50	36.00	160-1724-2-ND	3,000	270.00/M	LTW-C191TS5
8	Red Orange	Water Clear	630	2.0	30	4.5	20	130	160-1442-1-ND	.14	1.05	8.75	160-1442-2-ND	5,000	52.50/M	LTST-C191EKT
	Amber		610	2.1	30	4.5	20	130	160-1440-1-ND	.14	1.05	8.75	160-1440-2-ND	5,000	52.50/M	LTST-C191AKT
	Yellow		585	2.1	20	4.5	20	130	160-1449-1-ND	.14	1.05	8.75	—	—	—	LTST-C191YKT
	Green		565	2.1	30	12	20	130	160-1443-1-ND	.14	1.05	8.75	160-1443-2-ND	5,000	52.50/M	LTST-C191GKT
	White	Yellow	—	2.95	20	78	5	130	160-1720-1-ND	1.25	10.43	83.40	160-1720-2-ND	3,000	625.50/M	LTW-191TS5
9	White	Yellow	—	2.95	20	78	5	130	160-1721-1-ND	1.25	10.43	83.40	160-1721-2-ND	3,000	324.00/M	LTW-C193TS5
	White		—	2.70	100	38	20	130	160-1741-1-ND	.55	4.58	36.60	160-1741-2-ND	3,000	274.50/M	LTW-C192TL2
	White		—	2.93	100	70	20	130	160-1742-1-ND	.55	4.58	36.60	160-1742-2-ND	3,000	274.50/M	LTW-C192TL5
	White		—	2.93	100	70	20	130	160-1743-1-ND	.55	4.58	36.60	160-1743-2-ND	3,000	274.50/M	LTW-C192TS5
10	Green/Red	Water Clear	565/630	2.1/2.0	30/30	10/4.5	20	130	160-1450-1-ND	.23	1.74	14.50	160-1450-2-ND	4,000	87.00/M	LTST-C195GEKT
	Green/Yellow		565/585	2.1/2.1	30/20	10/4.5	20	130	160-1451-1-ND	.23	1.74	14.50	160-1451-2-ND	4,000	87.00/M	LTST-C195GYKT
11	Red	Water Clear	660	1.8	40	25	20	130	160-1186-1-ND	.12	1.00	8.00	160-1186-2-ND	3,000	60.00/M	LTST-C230CKT
	Red Orange		630	2.0	30	6	20	130	160-1187-1-ND	.11	.93	7.40	160-1187-2-ND	3,000	55.50/M	LTST-C230EKT
	Amber		610	2.1	30	4.5	20	130	160-1185-1-ND	.11	.93	7.40	160-1185-2-ND	3,000	55.50/M	LTST-C230AKT
	Yellow		585	2.1	20	4.5	20	130	160-1189-1-ND	.11	.93	7.40	160-1189-2-ND	3,000	55.50/M	LTST-C230YKT
	Green		565	2.1	30	14	20	130	160-1188-1-ND	.11	.93	7.40	160-1188-2-ND	3,000	55.50/M	LTST-C230GKT
12	Red	Water Clear	635	2.0	30	12.4	10	120	160-1222-1-ND	.17	1.29	10.75	160-1222-2-ND	2,000	64.50/M	LTST-T670EKT
	Amber		610	2.1	30	8	10	120	160-1121-1-ND	.27	2.28	18.20	—	—	—	LTL-94PAKTA
	Amber		610	2.1	30	12.4	10	120	160-1221-1-ND	.17	1.29	10.75	160-1221-2-ND	2,000	64.50/M	LTST-T670AKT
	Yellow		585	2.1	20	12.4	10	120	160-1224-1-ND	.17	1.29	10.75	160-1224-2-ND	2,000	64.50/M	LTST-T670YKT
	Green		565	2.1	30	20	10	120	160-1223-1-ND	.17	1.29	10.75	160-1223-2-ND	2,000	64.50/M	LTST-T670GKT
	White	Yellow	—	3.5	100	700	30	120	160-1725-1-ND	.84	7.00	56.00	160-1725-2-ND	2,000	420.00/M	LTW-670DS
13	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1220-1-ND	.15	1.11	9.25	160-1220-2-ND	4,000	55.50/M	LTST-S220EKT
	Green		565	2.1	30	10	20	130	160-1218-1-ND	.15	1.11	9.25	160-1218-2-ND	4,000	55.50/M	LTST-S220GKT
14	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1474-1-ND	.14	1.05	8.75	160-1474-2-ND	4,000	52.50/M	LTST-S270EKT
	Amber		610	2.1	30	4	20	130	160-1472-1-ND	.22	1.65	13.75	—	—	—	LTST-S270AKT
	Yellow		585	2.1	20	4	20	130	160-1482-1-ND	.14	1.05	8.75	160-1482-2-ND	4,000	52.50/M	LTST-S270YKT
	Green		565	2.1	30	10	20	130	160-1475-1-ND	.14	1.05	8.75	160-1475-2-ND	4,000	52.50/M	LTST-S270GKT
	White	Yellow	—	3.0	100	95	20	130	160-1739-1-ND	1.16	9.63	77.00	160-1739-2-ND	4,000	577.50/M	LTW-270TLA
15	Red Orange	Water Clear	630	2.0	30	4	20	130	160-1208-1-ND	.16	1.20	10.00	160-1208-2-ND	3,000	60.00/M	LTST-S320EKT
	Yellow		585	2.1	20	4	20	130	160-1207-1-ND	.16	1.20	10.00	160-1207-2-ND	3,000	60.00/M	LTST-S320YKT
	Green		565	2.1	30	10	20	130	160-1206-1-ND	.16	1.20	10.00	160-1206-2-ND	3,000	60.00/M	LTST-S320GKT
16	Orange	Water Clear	630	2.0	30	25	10	25	160-1214-1-ND	.18	1.35	11.25	160-1214-2-ND	1,500	67.50/M	LTST-C930EKT
	Yellow		585	2.1	20	16	10	25	160-1213-1-ND	.18	1.35	11.25	160-1213-2-ND	1,500	67.50/M	LTST-C930YKT
	Green		565	2.1	30	40	10	25	160-1212-1-ND	.18	1.35	11.25	160-1212-2-ND	1,500	67.50/M	LTST-C930GKT

(Continued)

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Blue Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If (mA) Max.	Viewing Iv Typ. (mcd)	@ mA	Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Lite-On Part No.
1	Blue	Water Clear	468	3.4	20	70	20	130	160-1643-1-ND	.83	6.24	52.00	160-1643-2-ND	3,000	312.00/M	LTST-C150TBKT
3	Blue	Water Clear	468	3.3	20	70	20	130	160-1579-1-ND	.40	3.00	25.00	160-1579-2-ND	3,000	150.00/M	LTST-C170TBKT
5	Blue	Water Clear	468	3.4	20	30	20	130	160-1645-1-ND	1.60	12.00	100.00	160-1645-2-ND	3,000	312.00/M	LTST-C171TBKT
6	Blue	Water Clear	468	3.4	20	30	20	130	160-1646-1-ND	.83	6.24	52.00	160-1646-2-ND	3,000	312.00/M	LTST-C190TBKT
8	Blue	Water Clear	468	3.4	20	30	20	130	160-1647-1-ND	.83	6.24	52.00	160-1647-2-ND	5,000	312.00/M	LTST-C191TBKT
			468	3.4	20	45	20	130	160-1648-1-ND	.40	3.00	25.00	160-1648-2-ND	5,000	150.00/M	LTST-C192TBKT
12	Blue	Water Clear	468	3.5	30	90	20	120	160-1229-1-ND	.75	6.25	50.00	160-1229-2-ND	2,000	375.00/M	LTST-T670TBKT
14	Blue	Water Clear	468	3.4	20	70	20	130	160-1650-1-ND	.83	6.24	52.00	160-1650-2-ND	4,000	312.00/M	LTST-S270TBKT
15	Blue	Water Clear	468	3.4	20	30	20	130	160-1651-1-ND	.83	6.24	52.00	160-1651-2-ND	3,000	312.00/M	LTST-S320TBKT
16	Blue	Water Clear	468	3.7	30	180	20	25	160-1460-1-ND	2.28	17.10	142.50	160-1460-2-ND	1,500	855.00/M	LTST-C930CBKT
			468	3.4	20	450	20	25	160-1649-1-ND	.83	6.24	52.00	160-1649-2-ND	1,500	312.00/M	LTST-C930TBKT

Ultra-Bright AlInGaP Surface Mount LEDs

Fig.	Emitted Color	Lens	Peak Wavelength (nm)	VF Typ. (V)	If (mA) Max.	Iv Typ. (mcd)	@ mA	Viewing Angle (2x Theta)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Lite-On Part No.
1	Super Red	Water Clear	639	2.0	30	54	20	130	160-1405-1-ND	.17	1.26	10.50	160-1405-2-ND	3,000	63.00/M	LTST-C150KRKT
	Red Orange		621	2.0	30	55	20	130	160-1402-1-ND	.17	1.26	10.50	160-1402-2-ND	3,000	63.00/M	LTST-C150KAKT
	Amber Yellow		595	2.0	30	50	20	130	160-1407-1-ND	.17	1.26	10.50	160-1407-2-ND	3,000	63.00/M	LTST-C150KYKT
	Yellow		588	2.0	30	60	20	130	160-1406-1-ND	.17	1.26	10.50	160-1406-2-ND	3,000	63.00/M	LTST-C150KSKT
	Green		574	2.0	30	35	20	130	160-1404-1-ND	.17	1.26	10.50	160-1404-2-ND	3,000	63.00/M	LTST-C150KGKT
2	Green/Super Red	Water Clear	574/639	2/2	30/30	35/45	20	130	160-1409-1-ND	.27	2.01	16.75	160-1409-2-ND	3,000	100.50/M	LTST-C155KGJRKT
	Green/Yellow		574/591	2/2	30/30	35/75	20	130	160-1410-1-ND	.27	2.01	16.75	160-1410-2-ND	3,000	100.50/M	LTST-C155KGJSKT
3	Super Red	Water Clear	639	2.0	30	54	20	130	160-1415-1-ND	.17	1.29	10.75	160-1415-2-ND	3,000	64.50/M	LTST-C170KRKT
	Red Orange		621	2.0	30	55	20	130	160-1412-1-ND	.17	1.29	10.75	160-1412-2-ND	3,000	64.50/M	LTST-C170KAKT
	Amber		611	2.0	30	60	20	130	160-1413-1-ND	.17	1.29	10.75	160-1413-2-ND	3,000	64.50/M	LTST-C170KFKT
	Yellow		588	2.0	30	60	20	130	160-1416-1-ND	.17	1.29	10.75	160-1416-2-ND	3,000	64.50/M	LTST-C170KSKT
	Green		574	2.0	30	35	20	130	160-1414-1-ND	.17	1.29	10.75	160-1414-2-ND	3,000	64.50/M	LTST-C170KGKT
5	Super Red	Water Clear	639	2.0	30	54	20	130	160-1427-1-ND	.17	1.26	10.50	160-1427-2-ND	3,000	63.00/M	LTST-C171KRKT
	Red Orange		621	2.0	30	55	20	130	160-1424-1-ND	.22	1.65	13.75	—	—	—	LTST-C171KAKT
	Amber Yellow		595	2.0	30	50	20	130	160-1429-1-ND	.17	1.26	10.50	160-1429-2-ND	3,000	63.00/M	LTST-C171KYKT
	Yellow		588	2.0	30	60	20	130	160-1428-1-ND	.17	1.26	10.50	160-1428-2-ND	3,000	63.00/M	LTST-C171KSKT
	Green		574	2.0	30	35	20	130	160-1426-1-ND	.17	1.26	10.50	160-1426-2-ND	3,000	63.00/M	LTST-C171KGKT
6	Super Red	Water Clear	639	2.0	30	54	20	130	160-1436-1-ND	.15	1.11	9.25	160-1436-2-ND	3,000	55.50/M	LTST-C190KRKT
	Red Orange		621	2.0	30	55	20	130	160-1433-1-ND	.15	1.11	9.25	160-1433-2-ND	3,000	55.50/M	LTST-C190KAKT
	Amber		611	2.0	30	60	20	130	160-1434-1-ND	.15	1.11	9.25	160-1434-2-ND	3,000	55.50/M	LTST-C190KFKT
	Amber Yellow		595	2.0	30	50	20	130	160-1438-1-ND	.15	1.11	9.25	160-1438-2-ND	3,000	55.50/M	LTST-C190KYKT
	Yellow		588	2.0	30	60	20	130	160-1437-1-ND	.15	1.11	9.25	160-1437-2-ND	3,000	55.50/M	LTST-C190KSKT
	Green		574	2.0	30	35	20	130	160-1435-1-ND	.15	1.11	9.25	160-1435-2-ND	3,000	55.50/M	LTST-C190KGKT
8	Super Red	Water Clear	639	2.0	30	54	20	130	160-1447-1-ND	.17	1.26	10.50	160-1447-2-ND	5,000	63.00/M	LTST-C191KRKT
	Red Orange		621	2.0	30	55	20	130	160-1444-1-ND	.17	1.26	10.50	—	—	—	LTST-C191KAKT
	Red Orange		605	2.0	30	90	20	130	160-1445-1-ND	.22	1.65	1.65	160-1445-2-ND	5,000	82.50/M	LTST-C191KFKT
	Yellow		591	2.0	30	60	20	130	160-1448-1-ND	.17	1.26	10.50	160-1448-2-ND	5,000	63.00/M	LTST-C191KSKT
	Green		574	2.0	30	35	20	130	160-1446-1-ND	.17	1.26	10.50	160-1446-2-ND	5,000	63.00/M	LTST-C191KGKT
10	Green/Red	Water Clear	574/639	2/2	30/30	35/45	20	130	160-1452-1-ND	.27	2.01	16.75	160-1452-2-ND	4,000	100.50/M	LTST-C195KGJRKT
	Green/Yellow		574/591	2/2	30/30	35/75	20	130	160-1453-1-ND	.27	2.01	16.75	160-1453-2-ND	4,000	100.50/M	LTST-C195KGJSKT
11	Super Red	Water Clear	639	2.0	30	54	20	130	160-1457-1-ND	.17	1.29	10.75	160-1457-2-ND	3,000	64.50/M	LTST-C230KRKT
	Red Orange		621	2.0	30	55	20	130	160-1455-1-ND	.22	1.65	13.75	—	—	—	LTST-C230KAKT
	Yellow		588	2.0	30	60	20	130	160-1458-1-ND	.17	1.29	10.75	160-1458-2-ND	3,000	64.50/M	LTST-C230KSKT
	Green		574	2.0	30	35	20	130	160-1456-1-ND	.17	1.29	10.75	160-1456-2-ND	3,000	64.50/M	LTST-C230KGKT
12	Red	Water Clear	639	2.0	30	100	20	120	160-1226-1-ND	.20	1.50	12.50	160-1226-2-ND	2,000	75.00/M	LTST-T670KRKT
	Yellow		591	2.0	30	100	20	120	160-1227-1-ND	.20	1.50	12.50	160-1227-2-ND	2,000	75.00/M	LTST-T670KSKT
	Green		574	2.0	30	60	20	120	160-1228-1-ND	.20	1.50	12.50	160-1228-2-ND	2,000	75.00/M	LTST-T670KGKT
	Amber		611	2.0	30	100	20	120	160-1225-1-ND	.20	1.50	12.50	160-1225-2-ND	2,000	75.00/M	LTST-T670KFKT
13	Super Red	Water Clear	639	2.0	30	54	20	130	160-1469-1-ND	.16	1.20	10.00	160-1469-2-ND	4,000	60.00/M	LTST-S220KRKT
	Yellow		591	2.0	30	60	20	130	160-1470-1-ND	.16	1.20	10.00	160-1470-2-ND	4,000	60.00/M	LTST-S220KSKT
	Green		574	2.0	30	35	20	130	160-1468-1-ND	.16	1.20	10.00	160-1468-2-ND	4,000	60.00/M	LTST-S220KGKT
14	Super Red	Water Clear	639	2.0	30	54	20	130	160-1479-1-ND	.17	1.26	10.50	160-1479-2-ND	4,000	63.00/M	LTST-S270KRKT
	Amber		611	2.0	20	60	20	130	160-1477-1-ND	.17	1.26	10.50	160-1477-2-ND	4,000	63.00/M	LTST-S270KFKT
	Amber Yellow		595	2.0	30	50	20	130	160-1481-1-ND	.20	1.50	12.50	—	—	—	LTST-S270KYKT
	Yellow		591	2.0	30	60	20	130	160-1480-1-ND	.17	1.26	10.50	160-1480-2-ND	4,000	63.00/M	LTST-S270KSKT
	Green		574	2.0	30	35	20	130	160-1478-1-ND	.17	1.26	10.50	160-1478-2-ND	4,000	63.00/M	LTST-S270KGKT
15	Super Red	Water Clear	639	2.0	30	54	20	130	160-1487-1-ND	.19	1.41	11.75	160-1487-2-ND	3,000	70.50/M	LTST-S320KRKT
	Amber Yellow		595	2.0	30	50	20	130	160-1489-1-ND	.17	1.29	10.75	—	—	—	LTST-S320KYKT
	Yellow		591	2.0	30	60	20	130	160-1488-1-ND	.19	1.41	11.75	160-1488-2-ND	3,000	70.50/M	LTST-S320KSKT
	Green		574	2.0	30	35	20	130	160-1486-1-ND	.17	1.29	10.75	160-1486-2-ND	3,000	64.50/M	LTST-S320KGKT
16	Super Red	Water Clear	639	2.0	30	850	20	25	160-1463-1-ND	.21	1.56	13.00	160-1463-2-ND	1,500	78.00/M	LTST-C930KRKT
	Red Orange		621	2.0	30	1050	20	25	160-1461-1-ND	.21	1.56	13.00	160-1461-2-ND	1,500	78.00/M	LTST-C930KAKT
	Yellow		591	2.0	30	800	20	25	160-1464-1-ND	.21	1.56	13.00	160-1464-2-ND	1,500	78.00/M	LTST-C930KSKT
	Green		574	2.0	30	365	20	25	160-1462-1-ND	.21	1.56	13.00	160-1462-2-ND	1,500	78.00/M	LTST-C930KGKT

CML
INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT

PC Board Mounted LEDs

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing				CML Part No.
					1	25	100	250	
T1									
1	Red	10	2.0	L20261-ND	.97	19.74	57.12	126.00	5310F1
	Green	20	2.2	L20265-ND	.97	19.74	57.12	126.00	5310F5
	Yellow	20	2.1	L20267-ND	.97	19.74	57.12	126.00	5310F7
	Green	20	2.2	L20275-ND	.97	19.74	57.12	126.00	5312F5
	Yellow	20	2.1	L20277-ND	.97	19.74	57.12	126.00	5312F7
	Red	10	2.0	L20281-ND	.97	19.74	57.12	126.00	5315F1
	Green	20	2.2	L20285-ND	.97	19.74	57.12	126.00	5315F5
2	Red	10	2.0	L20151-ND	2.00	40.42	116.96	258.00	5360F1
	Green	20	2.2	L20155-ND	2.00	40.42	116.96	258.00	5360F5
	Yellow	20	2.1	L20157-ND	2.00	40.42	116.96	258.00	5360F7
3	Red	10	2.0	L20321-ND	.47	9.46	27.37	60.38	5600F1
	Green	20	2.2	L20325-ND	.47	9.46	27.37	60.38	5600F5
	Yellow	20	2.1	L20327-ND	.47	9.46	27.37	60.38	5600F7
	Red	10	5.0	L20331-ND	.74	15.04	43.52	96.00	5602F1-5V
	Amber	10	5.0	L20333-ND	.74	15.04	43.52	96.00	5602F3-5V
	Green	12	5.0	L20335-ND	.74	15.04	43.52	96.00	5602F5-5V
4	Red	20	1.8	L20191-ND	.90	18.33	53.04	117.00	5608F1
	Green	20	2.3	L20195-ND	.90	18.33	53.04	117.00	5608F5
	Yellow	20	2.2	L20197-ND	.90	18.33	53.04	117.00	5608F7
5	Red	10	2.0	L20361-ND	.47	9.46	27.37	60.38	5650F1
	Green	20	2.2	L20365-ND	.47	9.46	27.37	60.38	5650F5
	Yellow	20	2.1	L20367-ND	.47	9.46	27.37	60.38	5650F7
	Red	2.0	1.8	L20371-ND	.61	12.40	35.87	79.13	5650F1LC
	Red	13	5.0	L20381-ND	.74	15.04	43.52	96.00	5652F1-5V
6	Red	10	2.0	L20401-ND	.72	14.57	42.16	93.00	5680F1;1
	Green	20	2.2	L20405-ND	.72	14.57	42.16	93.00	5680F5;5
	Yellow	20	2.1	L20407-ND	.72	14.57	42.16	93.00	5680F7;7
7	Red	10	2.2	L20411-ND	.79	15.98	46.24	102.00	6321F1
	Green	10	2.3	L20415-ND	.79	15.98	46.24	102.00	6321F5
	Yellow	10	2.2	L20417-ND	.79	15.98	46.24	102.00	6321F7
8	Red	10	2.0	L20421-ND	.97	19.74	57.12	126.00	5322F1
	Green	20	2.2	L20425-ND	.97	19.74	57.12	126.00	5322F5
	Yellow	20	2.1	L20427-ND	.97	19.74	57.12	126.00	5322F7
	Red	10	2.0	L20431-ND	.97	19.74	57.12	126.00	5320F1
	Yellow	20	2.1	L20437-ND	.97	19.74	57.12	126.00	5320F7
	Red	10	2.0	L20441-ND	.97	19.74	57.12	126.00	5321F1
	Green	20	2.2	L20445-ND	.97	19.74	57.12	126.00	5321F5
9	Red	10	2.2	L2045111-ND	2.30	46.53	134.64	297.00	5693F1;1;1-A
	Green	10	2.3	L2045555-ND	2.30	46.53	134.64	297.00	5693F5;5;5-A
	Yellow	10	2.2	L2045777-ND	2.30	46.53	134.64	297.00	5693F7;7;7-A
10	Red	10	2.2	L20461111-ND	3.19	64.63	187.00	412.50	5694F1;1;1;1-A
	Green	10	2.3	L20465555-ND	3.19	64.63	187.00	412.50	5694F5;5;5;5-A
	Yellow	10	2.2	L20467777-ND	3.19	64.63	187.00	412.50	5694F7;7;7;-A
11	Red	10	2.0	L20448-ND	.72	14.57	42.16	93.00	553-0111
	Green	10	2.2	L20449-ND	.72	14.57	42.16	93.00	553-0122
	Yellow	10	2.1	L20450-ND	.72	14.57	42.16	93.00	553-0133
	Red/Green	20	1.8/2.1	L20451-ND	.72	14.57	42.16	93.00	553-0711
	Green/Yellow	30/20	2.1/2.8	L20452-ND	.72	14.57	42.16	93.00	553-0744
T 1 3/4									
12	Red	20	1.7	L20001-ND	.53	10.81	31.28	69.00	5300E1
	Red	20	2.0	L20011-ND	.34	6.82	19.72	43.50	5300H1
	Green	20	2.2	L20015-ND	.34	6.82	19.72	43.50	5300H5
	Yellow	20	2.1	L20017-ND	.34	6.82	19.72	43.50	5300H7
	Red	10	5.0	L20021-ND	.74	15.04	43.52	96.00	5302H1-5V
	Amber	10	5.0	L20023-ND	.74	15.04	43.52	96.00	5302H3-5V
	Green	20	5.0	L20025-ND	.74	15.04	43.52	96.00	5302H5-5V
	Red	2	1.8	L20031-ND	.48	9.75	28.22	62.25	5300H1LC
	Green	2	1.8	L20035-ND	.48	9.75	28.22	62.25	5300H5LC
	Yellow	2	1.9	L20037-ND	.48	9.75	28.22	62.25	5300H7LC
	Red	35	3.0	L20041-ND	.67	13.63	39.44	87.00	5308H1
	Green	20	2.5	L20045-ND	.67	13.63	39.44	87.00	5308H5
	Yellow	20	2.1	L20047-ND	.67	13.63	39.44	87.00	5308H7
12	Red/Green	10	2.2	L20048-ND	.85	17.16	49.64	109.50	5300H1/5
13	Red	20	2.0	L20171-ND	.70	14.10	40.80	90.00	5306H1
	Amber	20	2.0	L20173-ND	.70	14.10	40.80	90.00	5306H3
	Green	20	2.2	L20175-ND	.70	14.10	40.80	90.00	5306H5
	Yellow	20	2.1	L20177-ND	.70	14.10	40.80	90.00	5306H7
14	Red	20	2.0	L20051-ND	.70	14.10	40.80	90.00	5307H1
	Green	20	2.2	L20055-ND	.70	14.10	40.80	90.00	5307H5
15	Red	20	2.0	L20061-ND	.70	14.10	40.80	90.00	5330H1
	Green	20	2.2	L20065-ND	.70	14.10	40.80	90.00	5330H5
	Yellow	20	2.2	L20067-ND	.70	14.10	40.80	90.00	5330H7
	Red	20	2.0	L20731-ND	.70	14.10	40.80	90.00	5331H1
	Green	20	2.1	L20735-ND	.70	14.10	40.80	90.00	5331H5
	Yellow	20	2.1	L20737-ND	.70	14.10	40.80	90.00	5331H7
16	Red	20	2.0	L20251-ND	1.07	21.62	62.56	138.00	5341H1
	Green	20	2.1	L20255-ND	1.07	21.62	62.56	138.00	5341H5
	Yellow	20	2.1	L20257-ND	1.07	21.62	62.56	138.00	5341H7
17	Red	20	1.7	L20301-ND	.53	10.81	31.28	69.00	5380E1
	Red	20	2.0	L20311-ND	.53	10.81	31.28	69.00	5380H1
	Green	20	2.2	L20315-ND	.53	10.81	31.28	69.00	5380H5
	Yellow	20	2.1	L20317-ND	.53	10.81	31.28	69.00	5380H7
18	Red	20	2.0	L20161-ND	.60	12.22	35.36	78.00	5381H1
	Green	20	2.2	L20165-ND	.60	12.22	35.36	78.00	5381H5
	Yellow	20	2.1	L20167-ND	.60	12.22	35.36	78.00	5381H7
19	Red	20	1.7	L20341-ND	2.25	45.59	131.92	291.00	5640E1
	Red	20	2.0	L20351-ND	2.25	45.59	131.92	291.00	5640H1
	Green	20	2.2	L20355-ND	2.25	45.59	131.92	291.00	5640H5
	Yellow	20	2.1	L20357-ND	2.25	45.59	131.92	291.00	5640H7
20	Red	20	2.0	L20391-ND	1.23	24.91	72.08	159.00	5670H1;1
	Green	20	2.2	L20395-ND	1.23	24.91	72.08	159.00	5670H5;5
	Yellow	20	2.1	L20397-ND	1.23	24.91	72.08	159.00	5670H7;7
21	Red	20	2.0	L20491-ND	.70	14.10	40.80	90.00	5332H1
	Green	20	2.1	L20495-ND	.70	14.10	40.80	90.00	5332H5
	Yellow	20	2.1	L20497-ND	.70	14.10	40.80	90.00	5332H7
22	Red/Green	15	2.1	L20488-ND	1.72	34.78	100.64	222.00	5305H1/5
	Amber/Green	15	2.1	L205935-ND	1.72	34.78	100.64	222.00	5305H3/5
2mm									
23	Red	10	2.2	L20081-ND	.81	16.45	47.60	105.00	5350T1
	Green	10	2.3	L20085-ND	.81	16.45	47.60	105.00	5350T5
	Yellow	10	2.2	L20087-ND	.81	16.45	47.60	105.00	5350T7
	Red	9.6	5.0	L20091-ND	.93	18.80	54.40	120.00	5352T1-5V
	Amber	10	5.0	L20093-ND	.93	18.80	54.40	120.00	5352T3-5V
	Green	10	5.0	L20095-ND	.93	18.80	54.40	120.00	5352T5-5V
	Red	2	1.8	L20101-ND	.97	19.74	57.12	126.00	5350T1LC
	Green	2	1.8	L20105-ND	.97	19.74	57.12	126.00	5350T5LC
	Yellow	2	1.9	L20107-ND	.97	19.74	57.12	126.00	5350T7LC

Fig. 1

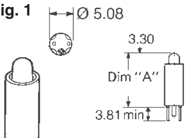

Dimension "A"
5310F Series = 14.73
5312F Series = 20.57
5315F Series = 13.97

Fig. 2

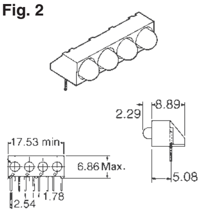

Fig. 3

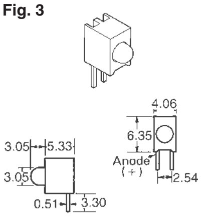

Fig. 4

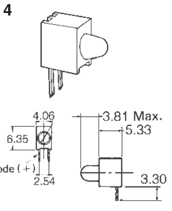

Clear Lens

Fig. 5

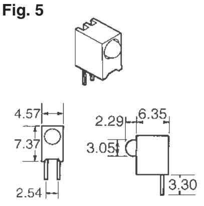

Fig. 6

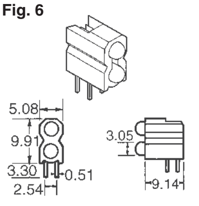

Fig. 7

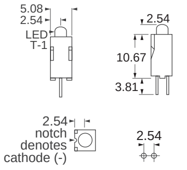

"Stackable"

Fig. 8

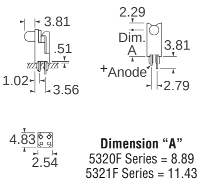

Dimension "A"
5320F Series = 8.89
5321F Series = 11.43
5322F Series = 6.35

Fig. 9

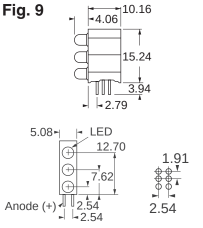

Fig. 10

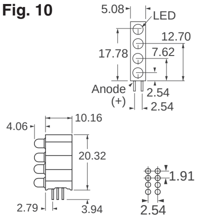

Fig. 11

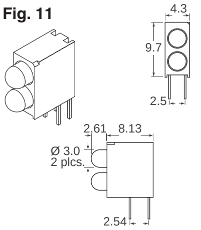

Fig. 12

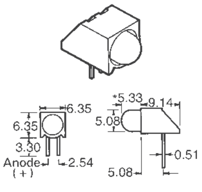

* 3.3 for Part No. L20001-ND

Fig. 13

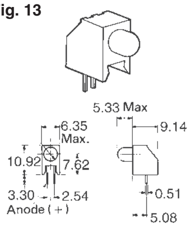

Fig. 14

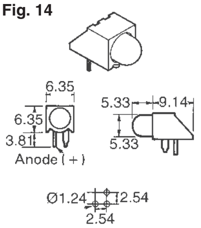

Fig. 15

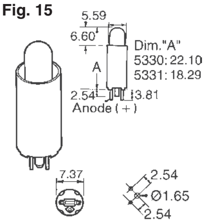

Fig. 16

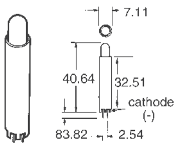

Fig. 17

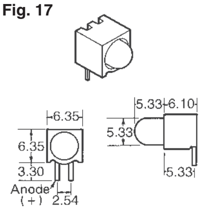

Fig. 18

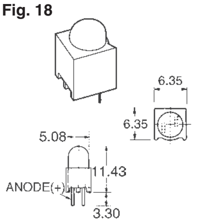

Fig. 19

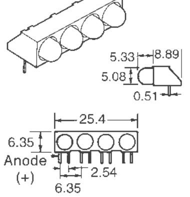

Fig. 20

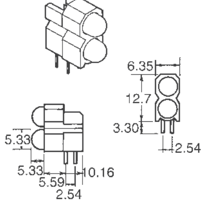

Fig. 21

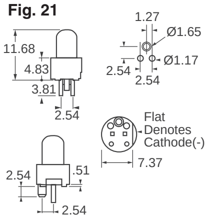

(Continued)

CML INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT

PC Board Mounted LEDs *(Cont.)*

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing 1	25	100	250	CML Part No.
2mm									
24	Red	3.5	5.0	L20111-ND	.97	19.74	57.12	126.00	5352T1-5VLC
	Amber	3.5	5.0	L20113-ND	.97	19.74	57.12	126.00	5352T3-5VLC
	Green	3.5	5.0	L20115-ND	.97	19.74	57.12	126.00	5352T5-5VLC
	Red	10	2.2	L20121-ND	1.39	28.20	81.60	180.00	5370T1
	Green	10	2.3	L20125-ND	1.39	28.20	81.60	180.00	5370T5
	Yellow	10	2.2	L20127-ND	1.39	28.20	81.60	180.00	5370T7
	Red	9.5	5.0	L20131-ND	1.51	30.55	88.40	195.00	5372T1-5V
	Amber	10	5.0	L20133-ND	1.51	30.55	88.40	195.00	5372T3-5V
	Green	10	5.0	L20135-ND	1.51	30.55	88.40	195.00	5372T5-5V
	Red	2	1.8	L20141-ND	1.50	30.32	87.72	193.50	5370T1LC
	Green	2	1.8	L20145-ND	1.50	30.32	87.72	193.50	5370T5LC
	Yellow	2	1.9	L20147-ND	1.50	30.32	87.72	193.50	5370T7LC
	Red	3.5	5.0	L20291-ND	1.50	30.32	87.72	193.50	5372T1-5VLC
	Amber	3.5	5.0	L20293-ND	1.50	30.32	87.72	193.50	5372T3-5VLC
	Green	3.5	5.0	L20295-ND	1.50	30.32	87.72	193.50	5372T5-5VLC
Rectangular									
25	Red	20	2.1	L20541-ND	1.16	23.50	68.00	150.00	5636D1
	Green	20	2.1	L20545-ND	1.16	23.50	68.00	150.00	5636D5
	Yellow	20	2.2	L20547-ND	1.16	23.50	68.00	150.00	5636D7
26	Red	10	2.1	L20571-ND	5.57	112.80	326.40	720.00	5638D1

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Cut Tape Pricing 1	10	100	Digi-Key Part No.	Tape & Reel Pricing 750	CML Part No.
PC Board Mount on Tape and Reel										
27	Red	10	2.0	L60011CT-ND	.95	8.16	68.00	L60011TR-ND	306.00	5655F1
	Green	20	2.2	L60015CT-ND	.95	8.16	68.00	L60015TR-ND	306.00	5655F5

Fig. 22

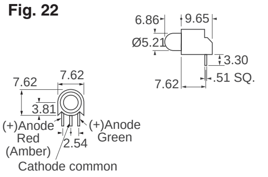

Fig. 23

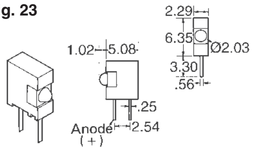

Fig. 24

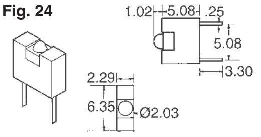

Fig. 25

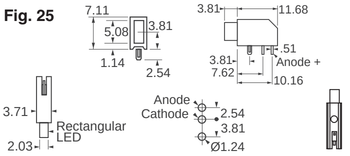

Fig. 26

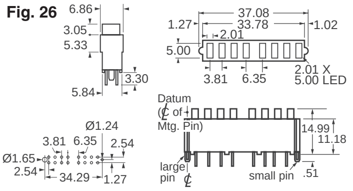

Fig. 27

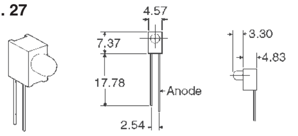

Panel Mount LED Assemblies

Fig.	Color	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Pricing 1	25	100	250	CML Part No.
1	Red	20	2.0	L10001-ND	1.09	22.09	63.92	141.00	5100H1
	Green	20	2.2	L10005-ND	1.09	22.09	63.92	141.00	5100H5
	Yellow	20	2.1	L10007-ND	1.09	22.09	63.92	141.00	5100H7
	Red	2	1.8	L10011-ND	1.40	28.44	82.28	181.50	5100H1LC
	Yellow	2	1.9	L10017-ND	1.40	28.44	82.28	181.50	5100H7LC
	Red	10	5.0	L10021-ND	1.64	33.19	96.05	211.88	5102H1-5V
	Amber	10	5.0	L10023-ND	1.64	33.19	96.05	211.88	5102H3-5V
	Green	12	5.0	L10025-ND	1.64	33.19	96.05	211.88	5102H5-5V
	Red/Green	20	2.2	L10008-ND	1.79	36.25	104.89	231.38	5100H1/5
2	Red	20	2.0	L10031-ND	1.09	22.15	64.09	141.38	5101H1
	Green	20	2.2	L10035-ND	1.09	22.15	64.09	141.38	5101H5
	Yellow	20	2.1	L10037-ND	1.09	22.15	64.09	141.38	5101H7
3	Red	10	2.0	L10041-ND	1.32	26.67	77.18	170.25	5110F1
	Green	20	2.2	L10045-ND	1.32	26.67	77.18	170.25	5110F5
	Yellow	20	2.1	L10047-ND	1.32	26.67	77.18	170.25	5110F7
	Red	2	1.8	L10051-ND	1.79	36.19	104.72	231.00	5110F1LC
	Yellow	2	1.9	L10057-ND	1.79	36.19	104.72	231.00	5110F7LC
4	Red	10	2.0	L10061-ND	.75	15.10	43.69	96.38	5111F1
	Green	20	2.2	L10065-ND	.75	15.10	43.69	96.38	5111F5
	Yellow	20	2.1	L10067-ND	.75	15.10	43.69	96.38	5111F7
5	Red	10	2.0	L10091-ND	1.84	37.25	107.78	237.75	5210F1
	Green	20	2.2	L10095-ND	1.84	37.25	107.78	237.75	5210F5
	Yellow	20	2.1	L10097-ND	1.84	37.25	107.78	237.75	5210F7
6	Red	20	2.0	L10071-ND	1.92	38.95	112.71	248.63	5400A1
	Green	20	2.1	L10075-ND	1.92	38.95	112.71	248.63	5400A5
	Yellow	20	2.1	L10077-ND	1.92	38.95	112.71	248.63	5400A7
7	Red	10	2.0	L50381-ND	2.31	46.82	135.49	298.88	3990A1
	Amber	10	2.0	L50383-ND	2.31	46.82	135.49	298.88	3990A3
	Green	20	2.2	L50385-ND	2.31	46.82	135.49	298.88	3990A5
	Yellow	20	2.1	L50387-ND	2.31	46.82	135.49	298.88	3990A7

Fig.	Dia. (mm)	Volts	Termination	Digi-Key Part No.	Pricing 1	25	100	CML Part No.
8	12.70	6	Wire	L5014☐-ND	3.09	62.69	181.39	1091M☐-6V
	12.70	12	Wire	L5015☐-ND	3.09	62.69	181.39	1091M☐-12V
	12.70	24	Wire	L5016☐-ND	3.09	62.69	181.39	1091M☐-24V
	12.70	12	4.75mm Terminal	L5017☐-ND	3.28	66.51	192.44	1091QM☐-12V
	12.70	24	4.75mm Terminal	L5018☐-ND	3.28	66.51	192.44	1091QM☐-24V
9	7.87	6	Wire	L5025☐-ND	3.13	63.51	183.77	2191L☐-6V
	7.87	12	Wire	L5026☐-ND	3.13	63.51	183.77	2191L☐-12V
	7.87	24	Wire	L5027☐-ND	3.13	63.51	183.77	2191L☐-24V
	7.87	12	4.75mm Terminal	L5028☐-ND	3.28	66.51	192.44	2191QL☐-12V
	7.87	24	4.75mm Terminal	L5029☐-ND	3.28	66.51	192.44	2191QL☐-24V
10	7.87	6	Wire	L5030☐-ND	3.13	63.51	183.77	2191U☐-6V
	7.87	12	Wire	L5031☐-ND	3.13	63.51	183.77	2191U☐-12V
	7.87	24	Wire	L5032☐-ND	3.13	63.51	183.77	2191U☐-24V
	7.87	12	4.75mm Terminal	L5033☐-ND	3.28	66.51	192.44	2191QU☐-12V
	7.87	24	4.75mm Terminal	L5034☐-ND	3.28	66.51	192.44	2191QU☐-24V

For ☐ in Digi-Key Part No. choose one of the following: **1**=Red; **5**=Green; **7**=Yellow

Fig. 1

Mounting: Will snap-fit in 6.32/6.45mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 24 AWG, 152.40mm long. **Housing:** Black nylon. **Anode:** (+): Red lead. **Anode for L10008-ND:** (+): Yellow lead for red light, blue lead for green light.

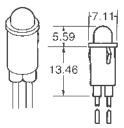

Fig. 2

Mounting: Will snap-fit in 6.32/6.45mm dia. hole in panels .79/1.57mm thick. **Terminals:** .51mm Sq. **Housing:** Black nylon.

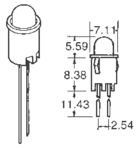

Fig. 3

Mounting: Will snap-fit in 3.94/4.01mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 24 AWG, 152.40mm long, stripped 4.57/8.13mm. **Anode** (+): Red lead. **Housing:** Black nylon.

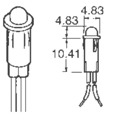

Fig. 4

Mounting: Will snap-fit in 3.94/4.01mm dia. hole in panels .79/1.57mm thick. **Terminals:** .51mm Sq. **Housing:** Black nylon.

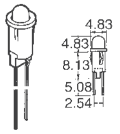

Fig. 5

Mounting: Will snap-fit into 4.75/4.88mm diameter hole in panel .51/2.46mm thick. **Wire Leads:** 26 AWG, 111.76/121.92mm long stripped. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** Polycarbonate.

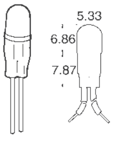

Fig. 6

Mounting: Will snap-fit into 7.92/8.05mm dia. hole in panel .51/2.49mm thick. **Wire Leads:** 24 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** Natural nylon.

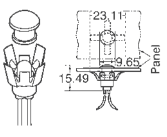

Fig. 7

Mounting: Will snap-fit into 5.51/5.61mm dia. hole in panels .79/1.57mm thick. **Wire Leads:** 26 AWG, 111.76/121.92mm long stripped. **Anode** (+): Red lead. **Lens:** Polycarbonate. **Housing:** White nylon.

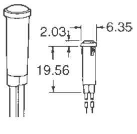

Fig. 8

Wire Leads: 22 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal

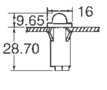

Fig. 9

Wire Leads: 22 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal with speed nut

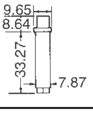

Fig. 10

Wire Leads: 22 AWG, 111.76/121.92mm long, stripped: 10.92/14.48mm. **Anode** (+) Red Lead or Quick Connect 4.75mm Term Anode (+) marked above terminal with speed nut

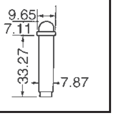

Flashers

Series 5100H Flasher

Features: • Built-in flashing circuit • Flashing rate: 1.5 - 2.5 Hz • No external resistor required **Mounting:** Will snap fit in 6.32/6.45mm dia. hole in panels .79/1.57mm. **Wire Leads:** No. 24 AWG, 152.40mm insulated, bonded strands, stripped 12.70mm. **Anode (+):** Red Lead **Housing:** Black Nylon

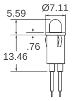

Color	I_V mcd	Current mA	V_F (V)	Digi-Key Part No.	Pricing 1	25	100	CML Part No.
Red	12.5	20	13	L20691-ND	2.41	48.76	141.10	5100H1FL
Green	8.0	20	13	L20695-ND	2.41	48.76	141.10	5100H5FL
Yellow	12.5	20	13	L20697-ND	2.41	48.76	141.10	5100H7FL

T1 Modular LEDs

Features: • Mount up to 12 LEDs in one operation • Unitized vibration resistant package • Black housing for high contrast background • Wide viewing angle • Vertical or horizontal positioning • Interlocking construction • Hi brite diffused LEDs • Speeds mounting for increased productivity and reduced cost

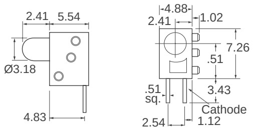

Mount from 1 to 12 circuit board indicators, as a single unit. Unique snap-together feature.

LED/Lens	Forward Voltage Typ.	If=(mA)	Min. V_R	Max. I_F (mA)	Typ. I_O (mcd)	View Angle	Digi-Key Part No.	Pricing 1	25	100	CML Part No.
Red/Clear	2.2	20	5.0	30	60.0	40°	CMC01R-ND	.51	10.34	29.92	CMC01R
Yellow/Clear	2.2	20	5.0	20	60.0	40°	CMC01Y-ND	.51	10.34	29.92	CMC01Y
Green/Clear	2.2	20	5.0	30	60.0	40°	CMC01G-ND	.51	10.34	29.92	CMC01G
Red/Diff.	2.0	20	5.0	30	20.0	90°	CMW01R-ND	.70	14.10	40.80	CMW01R
Yellow/Diff.	2.1	20	5.0	30	12.5	90°	CMW01Y-ND	.70	14.10	40.80	CMW01Y
Green/Diff.	2.2	20	5.0	30	12.5	90°	CMW01G-ND	.70	14.10	40.80	CMW01G

CML
INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT

Optical Light Pipes for SMD-Style LED

Fig. 1

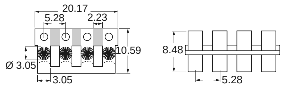

Fig. 2

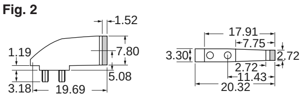

Fig. 3

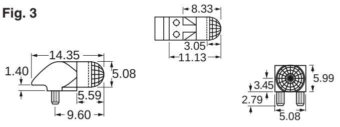

Fig. 4

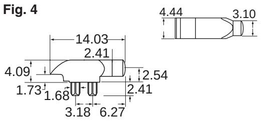

Fig. 5

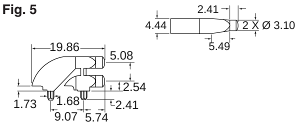

Fig. 6

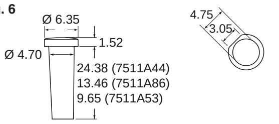

Fig. 7

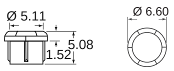

Fig. 8

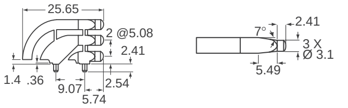

Fig. 9 – Flexible Light Pipe

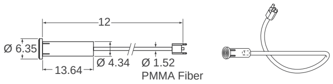

Fig. 10 SMD

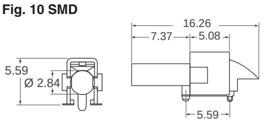

Fig.	Color	Digi-Key Part No.	Price Each 1	25	100	250	500	Tape & Reel* Pricing 700	CML Part No.
1	Clear	L71200-ND	1.67	1.36	.98	.87	.83	—	7640D2
2		L71300-ND	.41	.34	.25	.22	.21	—	7610D2
3		L71400-ND	1.01	.82	.60	.53	.51	—	7511G2
4		L70510-ND	.64	.52	.38	.33	.32	—	7511A85
5		L70520-ND	.70	.57	.41	.36	.35	—	7511A62
6	Clear	L70540-ND	.64	.52	.38	.34	.32	—	7511A44
6		L70550-ND	.58	.47	.34	.30	.29	—	7511A86
6		L70560-ND	.61	.50	.36	.32	.31	—	7511A53
7		L70570-ND	.58	.47	.34	.30	.29	—	7511A18
8		L70580-ND	.64	.52	.38	.34	.32	—	7511B11
9	Clear	L70590-ND	2.28	1.85	1.34	1.18	1.14	—	7512FPR-305
10		L70591CT-ND†	1.40	1.20	1.00	—	—	420.00	7520A10-TR

* For Tape & Reel part number, change CT-ND to TR-ND † Cut Tape Price

PC Board Mount T-1 LEDs

Fig. 1

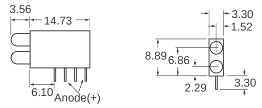

Fig. 2

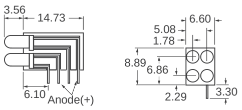

Fig.	Color	Typ. mcd	Forward Voltage mA	Typ. (V)	Digi-Key Part No.	Price Each 1	25	100	CML Part No.
1	Red	10.0	10	2.2	L206011-ND	1.72	1.40	1.01	5682F1;1
	Green	8.5	10	2.3	L206055-ND	1.72	1.40	1.01	5682F5;5
	Yellow	10.0	10	2.2	L206077-ND	1.72	1.40	1.01	5682F7;7
2	Red	10.0	10	2.2	L206111-ND	3.20	2.60	1.88	5684F1;1;1;1
	Green	8.5	10	2.3	L206555-ND	3.20	2.60	1.88	5684F5;5;5;5
	Yellow	10.0	10	2.2	L206777-ND	3.20	2.60	1.88	5684F7;7;7;7

LED Lenses

These LED lenses provide quick, economical panel mounting as well as ESD protection. Molded in Fresnel rings provide a wide viewing angle.

Fig. 1

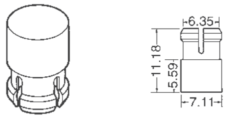

6.35mm Dia. for T1-3/4 LEDs

Fig. 2

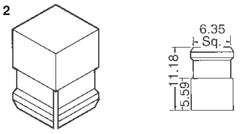

6.35mm Dia. for T1-3/4 LEDs

Fig. 3

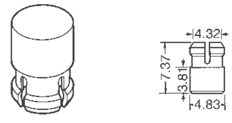

4.37mm Dia. for T-1 LEDs

Fig. 4

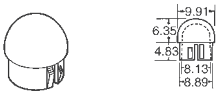

9.13mm Dia. for T1-3/4 LEDs

Fig.	Digi-Key Part No.	Price Each 1	25	100	250	CML Part No.
1	L3000☐-ND	.31	.25	.19	.16	431☐
2	L3001☐-ND	.39	.32	.23	.20	432☐
3	L3002☐-ND	.33	.27	.20	.17	433☐
4	L3003☐-ND	.39	.32	.23	.20	434☐

For ☐ in Digi-Key® Part No., choose one of the following: **1**=Red; **2**=Clear; **3**=Amber; **5**=Green; **6**=Blue; **7**=Yellow

Circuit Board Indicator

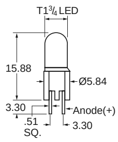

Color	Typ. mcd	Rated Current mA	Forward Volt Typ. (V)	Digi-Key Part No.	Price Each 1	25	100	CML Part No.
Red	6.3	10	2.0	L20651-ND	.79	.64	.47	5340H1
Green	10	10	2.2	L20655-ND	.79	.64	.47	5340H5
Yellow	6.3	10	2.2	L20657-ND	.79	.64	.47	5340H7
Red	2.3	2	1.8	L20661-ND	.88	.72	.52	5340H1LC
Green	2.3	2	1.8	L20665-ND	.88	.72	.52	5340H5LC
Yellow	2.1	2	1.9	L20667-ND	.88	.72	.52	5340H7LC

Bright•White™ LEDs

• Peak Forward Current: Surface Mount: 100mA Through-Hole: 80mA • Continuous Forward Current: Surface Mount: 30mA Through-Hole: 25mA • Emitted Color: White • Lens Color: Water Clear

SMD Package

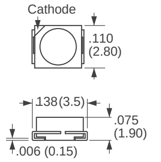

T-1 Package

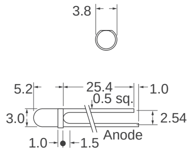

T1-3/4 Package

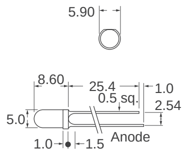

Pkg. Type	V_t Typ.	mcd Typ.	I_f (mA) Typ.	View Angle	Digi-Key Part No.	Price Each 1	10	100	T & R* Pricing 2,000	CML Part No.
SMD	3.6	170	20	100°	CMD67-21UWCCT-ND†	2.40	2.22	2.00	1500.00/M	CMD67-21UWC/TR8
T-1	3.70	1000	20	20°	CMD204UWC-ND	2.40	2.22	2.00	—	CMD204UWC
T1-3/4	3.75	2300	20	20°	CMD333UWC-ND	2.40	2.22	2.00	—	CMD333UWC

* For Tape and Reel part number, change CT-ND to TR-ND. † Cut Tape Price

High Brightness LEDs

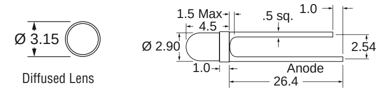

Dia. (mm)	Color	Wave-length (nm)	V_f Typ (V)	I_f Typ (mA)	I_v Typ (mcd)	Digi-Key Part No.	Price Each 1	25	100	CML Part No.
3	Blue	430	5	20	100	L14006-ND	1.48	1.21	.88	CMD264-UBD

LEDs

T1-3/4 UltraBright

HLMP With Stand-off

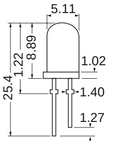

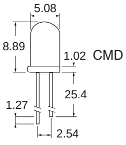

FEATURES: • Minimum 80 mcd. • Pale tint avoids mix problems. • With or without stand-off.

Lens Color	Source Color	P_D (mW)	Min. I_V mcd	Max. V_F (V)	Typ. I_p (nm)	View Angle	Digi-Key Part No.	Pricing 1	25	100	CML Part No.
Clear †	Hi. Eff. Red	135	80	2.2	635	24°	HLMP3750ACM-ND	.23	4.70	13.60	HLMP-3750A
Clear	Hi. Eff. Red	135	80	2.2	635	24°	CMD3750-ND	.19	3.88	11.22	CMD3750
Clear †	Hi. Eff. Green	135	80	2.2	565	24°	HLMP3950ACM-ND	.26	5.35	15.47	HLMP-3950A
Clear	Hi. Eff. Green	135	80	2.2	565	24°	CMD3450-ND	.21	4.23	12.24	CMD3450
Clear †	Yellow	85	80	2.2	585	24°	HLMP3850ACM-ND	.26	5.35	15.47	HLMP-3850A
Clear	Yellow	85	80	2.2	585	24°	CMD3350-ND	.19	3.88	11.22	CMD3350

† With Stand-off

Surface Mount LEDs

Fig.	Wave-length	Color	Lens Color	TYP mcd	Forward Voltage TYP @ mA		Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing*	CML Part No.
								1	10	100		
CMD11-21 Series												
1	640	Red	Clear	6	2.0	20	L62001CT-ND	.29	.25	.21	246.00/2,000	CMD11-21VRC/TR8
	570	Green	Clear	7.5	2.1	20	L62005CT-ND	.29	.25	.21	246.00/2,000	CMD11-21VGC/TR8
	585	Yellow	Clear	6	2.0	20	L62007CT-ND	.29	.25	.21	246.00/2,000	CMD11-21VYC/TR8
	660	Super Red	Clear	17	1.7	20	L62011CT-ND	.29	.25	.21	246.00/2,000	CMD11-21SRC/TR8
CMDA1 Series												
1	660	Red	Clear	33.6	1.7	20	L71501CT-ND	.27	.23	.19	285.00/2,500	CMDA1DR7A1Z
	580	Yellow	Clear	6.0	2.2	20	L71502CT-ND	.27	.23	.19	285.00/2,500	CMDA1CY7A1Z
	570	Yellow	Clear	24.0	2.1	20	L71503CT-ND	.27	.23	.19	285.00/2,500	CMDA1AY7A1Z
	560	Green	Clear	12.0	2.1	20	L71504CT-ND	.27	.23	.19	285.00/2,500	CMDA1CG7A1Z
CMD12-21 Series												
2	640	Red	Clear	5	2.0	20	L62101CT-ND	.30	.26	.22	255.00/2,000	CMD12-21VRC/TR8
	570	Green	Clear	8.8	2.1	20	L62105CT-ND	.30	.26	.22	255.00/2,000	CMD12-21VGC/TR8
	585	Yellow	Clear	3	2.0	20	L62107CT-ND	.30	.26	.22	255.00/2,000	CMD12-21VYC/TR8
	660	Super Red	Clear	12.4	1.7	20	L62111CT-ND	.39	.34	.28	336.00/2,000	CMD12-21SRC/TR8
	570	Ultra Green	Clear	14.9	2.1	20	L62115CT-ND	.39	.34	.28	336.00/2,000	CMD12-21UGC/TR8
CMDA7 Series												
2	580	Yellow	Clear	3.0	2.1	20	L71510CT-ND	.27	.23	.19	—	CMDA7CY7A1Z
	570	Yellow	Clear	8.8	2.1	20	L71511CT-ND	.27	.23	.19	—	CMDA7AY7A1Z
CMD15-21 Series												
3	640	Red	Clear	6	2.0	20	L62201CT-ND	.28	.25	.21	243.00/2,000	CMD15-21VRC/TR8
	570	Green	Clear	10	2.1	20	L62205CT-ND	.26	.23	.19	222.00/2,000	CMD15-21VGC/TR8
	430	Ultra Blue	Clear	45	4.9	20	L62206CT-ND	2.70	2.31	1.93	2310.00/2,000	CMD15-21UBC/TR8
	581	Yellow	Clear	6	2.0	20	L62207CT-ND	.29	.25	.21	249.00/2,000	CMD15-21VYC/TR8
	660	Super Red	Clear	15	1.7	20	L62211CT-ND	.35	.30	.25	300.00/2,000	CMD15-21SRC/TR8
	565	Ultra Green	Clear	12	2.1	20	L62215CT-ND	.32	.28	.23	273.00/2,000	CMD15-21UGC/TR8
	640	Red	Diff	4	2.0	20	L62301CT-ND	.23	.20	.17	198.00/2,000	CMD15-21VRD/TR8
	570	Green	Diff	6.5	2.1	20	L62305CT-ND	.23	.20	.17	198.00/2,000	CMD15-21VGD/TR8
	585	Yellow	Diff	4	2.0	20	L62307CT-ND	.23	.20	.17	198.00/2,000	CMD15-21VYD/TR8
CMD15-22 Series												
4	640/570	Red/Grn.	Clear	6.0/10.0	2.0/2.1	20	L622015CT-ND	.54	.46	.39	459.00/2,000	CMD15-22VRVGC/TR8
	660/565	Red/Grn.	Clear	15.0/12.0	1.7/2.1	20	L6221115CT-ND	.64	.55	.46	546.00/2,000	CMD15-22RUGC/TR8
CMD17-21 Series												
5	640	Red	Clear	13	2.0	20	L62401CT-ND	.23	.20	.17	297.00/3,000	CMD17-21VRC/TR8
	570	Green	Clear	35	2.1	20	L62405CT-ND	.23	.20	.17	297.00/3,000	CMD17-21VGC/TR8
	585	Yellow	Clear	12	2.0	20	L62407CT-ND	.23	.20	.17	297.00/3,000	CMD17-21VYC/TR8
	660	Super Red	Clear	45	1.7	20	L62411CT-ND	.39	.34	.28	504.00/3,000	CMD17-21SRC/TR8
	570	Ultra Green	Clear	15.0	2.1	20	L62415CT-ND	.26	.23	.19	333.00/3,000	CMD17-21UGC/TR8
	640	Red	Diff	6.0	2.0	20	L62501CT-ND	.26	.23	.19	333.00/3,000	CMD17-21VRD/TR8
	570	Green	Diff	7.0	2.1	20	L62505CT-ND	.25	.22	.18	324.00/3,000	CMD17-21VGD/TR8
	585	Yellow	Diff	4	2.0	20	L62507CT-ND	.29	.25	.21	373.50/3,000	CMD17-21VYD/TR8
CMDA5 Series												
6	660	Red	Clear	11.7	1.7	20	L71505CT-ND	.27	.23	.19	456.00/4,000	CMDA5DR7D1Z
	580	Yellow	Clear	3.7	2.2	20	L71506CT-ND	.27	.23	.19	456.00/4,000	CMDA5CY7D1Z
	570	Yellow	Clear	11.7	2.1	20	L71507CT-ND	.27	.23	.19	456.00/4,000	CMDA5AY7D1Z
	560	Green	Clear	6.4	2.1	20	L71508CT-ND	.27	.23	.19	456.00/4,000	CMDA5CG7D1Z
7	637	Red	Diff	90	1.9	20	L71514CT-ND	.30	.27	.22	522.00/4,000	CMDA5AR7D1S
	630	Hi. Eff. Red	Diff	10	2.1	20	L71516CT-ND	.27	.23	.19	—	CMDA5BR7D1S
	609	Orange	Diff	90	1.9	20	L71515CT-ND	.30	.27	.22	—	CMDA5BA7D1S
	605	Orange	Diff	8.0	2.2	20	L71513CT-ND	.27	.23	.19	—	CMDA5AA7D1S
	595	Amber	Diff	90	1.9	20	L71517CT-ND	.30	.27	.22	522.00/4,000	CMDA5DY7D1S
CMD28-21 Series												
8	640	Red	Clear	3	2.0	20	L62601CT-ND	.30	.27	.22	261.00/2,000	CMD28-21VRC/TR8
	570	Green	Clear	5.5	2.1	20	L62605CT-ND	.30	.27	.22	261.00/2,000	CMD28-21VGC/TR8
	660	Super Red	Clear	17	1.7	20	L62611CT-ND	.36	.31	.26	306.00/2,000	CMD28-21SRC/TR8
	640	Red	Clear	0.16	2.0	1	L62701CT-ND	.31	.27	.23	267.00/2,000	CMD28-21VRC/TR8/T1
	570	Green	Clear	0.16	2.1	1	L62705CT-ND	.31	.27	.23	267.00/2,000	CMD28-21VGC/TR8/T1
	660	Super Red	Clear	1.6	1.7	1	L62711CT-ND	.42	.36	.30	357.00/2,000	CMD28-21SRC/TR8/T1
CMD67-21 Series												
9	640	Red	Clear	10	2.0	20	L62801CT-ND	.43	.38	.31	372.00/2,000	CMD67-21VRC/TR8
	570	Green	Clear	25	2.1	20	L62805CT-ND	.34	.29	.24	288.00/2,000	CMD67-21VGC/TR8
	585	Yellow	Clear	10	2.0	20	L62807CT-ND	.38	.33	.28	327.00/2,000	CMD67-21VYC/TR8
	660	Super Red	Clear	40	1.7	20	L62811CT-ND	.49	.42	.35	420.00/2,000	CMD67-21SRC/TR8
	660	Ultra Red	Clear	62	1.7	20	L628111CT-ND†	.70	.61	.51	603.00/2,000	CMD67-21URC/TR8
CMD67-22 Series												
10	640/570	Red/Grn.	Clear	10.0/25.0	2.0/2.1	20	L628015CT-ND	.90	.78	.65	771.00/2,000	CMD67-22VRVGC/TR8
	660/565	Red/Grn.	Clear	40.0/25.0	1.7/2.1	20	L6281115CT-ND	.90	.78	.65	771.00/2,000	CMD67-22SRUGC/TR8
CMD91-21/TR7 Series												
11	640	Red	Clear	80	2.0	20	L62901CT-ND	.33	.29	.24	142.50/1,000	CMD91-21VRC/TR7
	565	Green	Clear	50	2.1	20	L62905CT-ND	.33	.29	.24	142.50/1,000	CMD91-21VGC/TR7
	585	Yellow	Clear	30	2.0	20	L62907CT-ND	.33	.29	.24	142.50/1,000	CMD91-21VYC/TR7
	660	Super Red	Clear	170	1.7	20	L62911CT-ND	.38	.33	.28	163.50/1,000	CMD91-21SRC/TR7
CMD91-21/TR9 Series												
12	640	Red	Clear	80	2.0	20	L63001CT-ND	.33	.29	.24	142.50/1,000	CMD91-21VRC/TR9
	565	Green	Clear	50	2.1	20	L63005CT-ND	.33	.29	.24	142.50/1,000	CMD91-21VGC/TR9
	585	Yellow	Clear	30	2.0	20	L63007CT-ND	.38	.33	.27	162.00/1,000	CMD91-21VYC/TR9
	660	Super Red	Clear	170	1.7	20	L63011CT-ND	.38	.33	.28	163.50/1,000	CMD91-21SRC/TR9
CMD91-21/TR10 Series												
13	640	Red	Clear	80	2.0	20	L63101CT-ND	.33	.29	.24	142.50/1,000	CMD91-21VRC/TR10
	565	Green	Clear	50	2.1	20	L63105CT-ND	.33	.29	.24	142.50/1,000	CMD91-21VGC/TR10
	585	Yellow	Clear	30	2.0	20	L63107CT-ND	.33	.29	.24	142.50/1,000	CMD91-21VYC/TR10
	660	Super Red	Clear	170	1.7	20	L63111CT-ND	.38	.33	.28	163.50/1,000	CMD91-21SRC/TR10
CMD93-21/F8 Series												
14	640	Red	Clear	12	2.0	20	L63201CT-ND	.43	.37	.31	369.00/2,000	CMD93-21VRC/TR8
	570	Green	Clear	25	2.1	20	L63205CT-ND	.38	.33	.28	327.00/2,000	CMD93-21VGC/TR8
CMD93-22/F8 Series												
15	660/570	Red/Grn.	Clear	40.0/20.0	1.7/2.1	20	L632115CT-ND	.81	.70	.58	348.00/1,000	CMD93-22SRVGC/TR8
CMD95-21/TR7 Series												
16	640	Red	Clear	25	2.0	20	L63301CT-ND	.33	.29	.24	142.50/1,000	CMD95-21VRC/TR7
	570	Green	Clear	19.5	2.1	20	L63305CT-ND	.35	.30	.25	150.00/1,000	CMD95-21VGC/TR7
	585	Yellow	Clear	25	2.0	20	L63307CT-ND	.35	.30	.25	150.00/1,000	CMD95-21VYC/TR7
	660	Super Red	Clear	100	1.7	20	L63311CT-ND	.38	.33	.28	163.50/1,000	CMD95-21SRC/TR7
CMD95-21/TR9 Series												
17	640	Red	Clear	25	2.0	20	L63401CT-ND	.33	.29	.24	142.50/1,000	CMD95-21VRC/TR9
	570	Green	Clear	19.5	2.1	20	L63405CT-ND	.35	.30	.25	150.00/1,000	CMD95-21VGC/TR9
CMD95-21/TR10 Series												
18	640	Red	Clear	25	2.0	20	L63501CT-ND	.37	.32	.27	157.50/1,000	CMD95-21VRC/TR10
	570	Green	Clear	19.5	2.1	20	L63505CT-ND	.35	.30	.25	150.00/1,000	CMD95-21VGC/TR10
	585	Yellow	Clear	25	2.0	20	L63507CT-ND	.38	.33	.28	163.50/1,000	CMD95-21VYC/TR10
	660	Super Red	Clear	100	1.7	20	L63511CT-ND	.38	.33	.28	163.50/1,000	CMD95-21SRC/TR10

* For Tape and Reel part number, change CT-ND to TR-ND.

Fig. 1

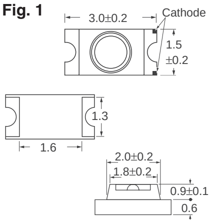

Fig. 2

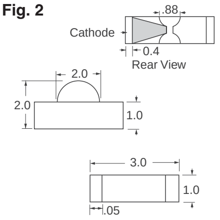

Fig. 3 — 1206

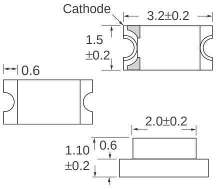

Fig. 4

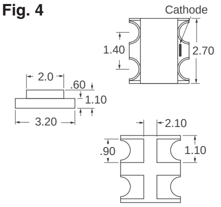

Fig. 5 — 0805

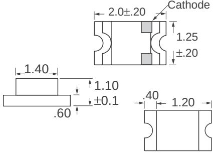

Fig. 6 — 0805

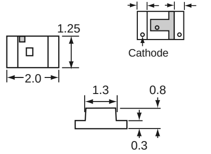

Fig. 7 — 0805

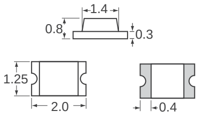

Fig. 8

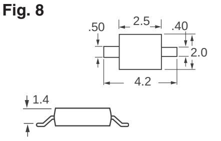

Fig. 9

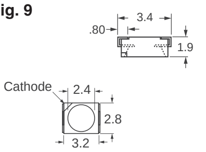

†Anode mark on L628111-ND

Fig. 10

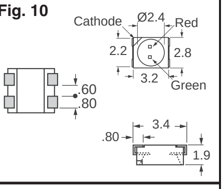

Fig. 11

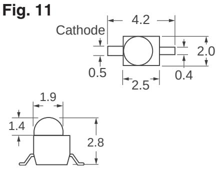

Fig. 12

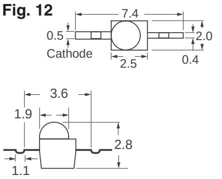

Fig. 13

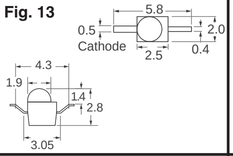

Fig. 14

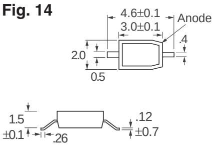

Fig. 15

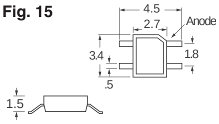

Fig. 16

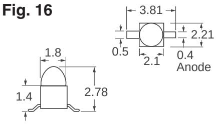

Fig. 17

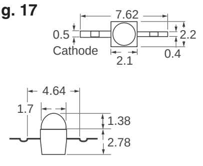

Fig. 18

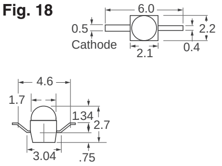

CML
INNOVATIVE TECHNOLOGIES
WHERE INNOVATION COMES TO LIGHT

Sub-Miniature Surface Mount LED Assemblies

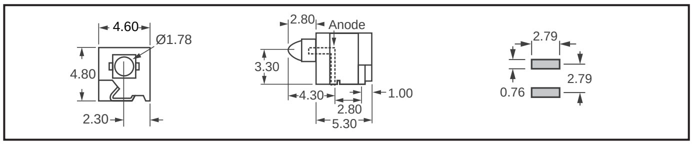

Color	Typ. mcd	Forward Voltage Typ. (V)	mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	T & R Pricing 750	CML Part No.
Red	5.0	2.2	10	L60041CT-ND	1.42	1.22	1.02	L60041TR-ND	456.75	6255T1
Green	4.0	2.3	10	L60045CT-ND	1.42	1.22	1.02	L60045TR-ND	456.75	6255T5
Yellow	3.8	2.2	10	L60047CT-ND	1.42	1.22	1.02	L60047TR-ND	456.75	6255T7
Red	5.0	5.0	10	L60061CT-ND	1.69	1.45	1.21	L60061TR-ND	543.75	6255T1-5V
Amber	5.0	5.0	10	L60063CT-ND	1.69	1.45	1.21	L60063TR-ND	543.75	6255T3-5V
Green	5.0	5.0	10	L60065CT-ND	1.69	1.45	1.21	L60065TR-ND	543.75	6255T5-5V
Red	0.8	1.8	2.0	L60051CT-ND	1.42	1.22	1.02	L60051TR-ND	456.75	6255T1LC
Green	1.2	1.8	2.0	L60055CT-ND	1.42	1.22	1.02	L60055TR-ND	456.75	6255T5LC
Yellow	0.6	1.9	2.0	L60057CT-ND	1.42	1.22	1.02	L60057TR-ND	456.75	6255T7LC
Red	2.0	5.0	4	L60071CT-ND	1.69	1.45	1.21	L60071TR-ND	543.75	6255T1-5VLC
Amber	4.0	5.0	4	L60073CT-ND	1.69	1.45	1.21	L60073TR-ND	543.38	6255T3-5VLC
Green	2.0	5.0	4	L60075CT-ND	1.69	1.45	1.21	L60075TR-ND	543.75	6255T5-5VLC

Right Angle Surface Mount LEDs

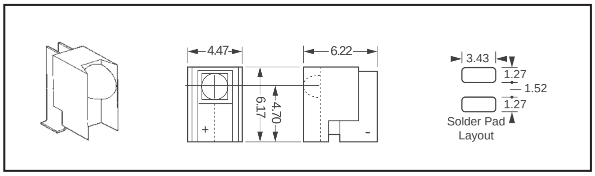

Color	Wave-length	Rated Current (mA)	Forward Voltage Typ. (V)	Digi-Key Part No.	Cut Tape Price Each 1	10	100	T & R Pricing* 1,000	CML Part No.
Red	—	10	2.2	L60001CT-ND	1.60	1.37	1.14	684.00	6200T1
Amber	—	10	2.0	L60003CT-ND	1.60	1.37	1.14	684.00	6200T3
Green	—	10	2.3	L60005CT-ND	1.60	1.37	1.14	684.00	6200T5
Yellow	—	10	2.2	L60007CT-ND	1.60	1.37	1.14	684.00	6200T7
Red	635	2	1.8	L60101CT-ND	1.60	1.37	1.14	684.00	6200T1LC
Green	565	2	1.8	L60105CT-ND	1.60	1.37	1.14	684.00	6200T5LC
Yellow	583	2	1.9	L60107CT-ND	1.60	1.37	1.14	684.00	6200T7LC
Red	635	9.6	5.0	L60201CT-ND	1.86	1.60	1.33	797.00	6202T1-5V
Amber	583	10	5.0	L60203CT-ND	1.86	1.60	1.33	797.00	6202T3-5V
Green	565	10	5.0	L60205CT-ND	1.86	1.60	1.33	797.00	6202T5-5V
Red	635	3.5	5.0	L60301CT-ND	1.86	1.60	1.33	797.00	6202T1-5VLC

* For Tape and Reel part number, change CT-ND to TR-ND.

Surface Mount LEDs

7011X Series

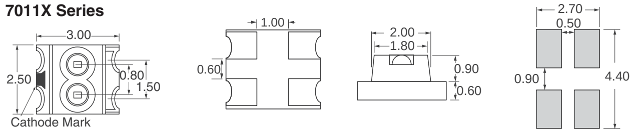

7012X Series

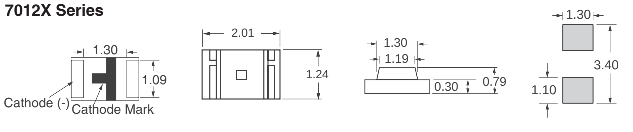

Source (Dice)	Luminous Intensity Typ. (mcd)	Forward Voltage Typ. (V)	mA	Digi-Key Part No.	Cut Tape Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	CML Part No.
Red/Green	17.0	1.7	20	L61015CT-ND	.81	.69	.58	L61015TR-ND	2,500	345.00/M	7011X1/5
Green/Yellow	7.5	2.1	20	L61057CT-ND	.81	.69	.58	L61057TR-ND	2,500	345.00/M	7011X5/7
Red	11.7	1.7	20	L61101CT-ND	.39	.33	.28	L61101TR-ND	4,000	165.00/M	7012X1
Green	6.4	2.1	20	L61105CT-ND	.39	.33	.28	L61105TR-ND	4,000	165.00/M	7012X5
Yellow/Green	11.7	2.1	20	L61107CT-ND	.39	.33	.28	L61107TR-ND	4,000	165.00/M	7012X7
Yellow	3.7	2.2	20	L61113CT-ND	.39	.33	.28	L61113TR-ND	4,000	165.00/M	7012X13

SHARP
MICROELECTRONICS

LEDs

Fig. 1

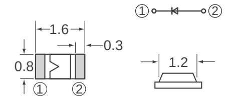

Fig. 2

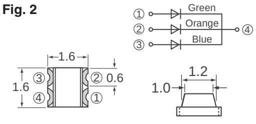

Fig. 3

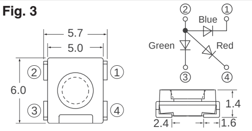

Fig. 4

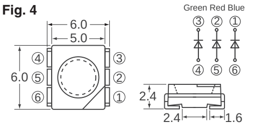

Fig. 5

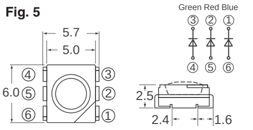

Fig. 6

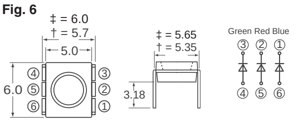

Fig. 7

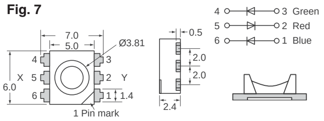

Fig. 8

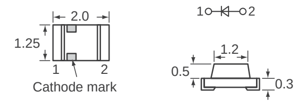

Fig. 9

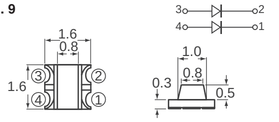

Fig.	Description	Emitted Color	Lens	Peak Wavelength (nm)	Vf Typ. (V)	If Max. (mA)	Luminous Intensity Iv (mcd) Typ.	Viewing Angle (2x Theta)	Digi-Key Part No.	Price Each 1	10	100	Tape & Reel* Size	Pricing	Sharp Part No.
1	1608 Size	Amber	Clear	591	2.0	20	19	150°	425-1813-1-ND	.33	.18	.15	6,000	87.00/M	GM1JV35200AE
		Sunset-Orange	Clear	609	2.0	20	19	150°	425-1812-1-ND	.33	.18	.15	6,000	87.00/M	GM1JS35200AE
		Red	Clear	639	2.0	20	15	150°	425-1810-1-ND	.33	.18	.15	6,000	87.00/M	GM1JR35200AE
		Orange	Clear	627	2.0	20	19	150°	425-1811-1-ND	.33	.18	.15	6,000	87.00/M	GM1JJ35200AE
		Yellow-Green	Clear	575	2.0	20	13	150°	425-1814-1-ND	.33	.18	.15	6,000	87.00/M	GM1JE35200AE
		Yellow-Green	Clear	565	2.1	50	19.0	160°	425-1928-1-ND	.22	.12	.10	5,000	58.00/M	GM1EG55200A
		Red	Clear	635	2.0	50	12.5	160°	425-1929-1-ND	.22	.12	.10	5,000	58.00/M	GM1HD55200A
		Blue	Clear	470	3.2	40	35	160°	425-1930-1-ND	1.24	.93	.78	5,000	449.50/M	GM1BC55250AC
2	1.6 x 1.6	Blue/Green/Orange	Clear	470/528/627	3.2/3.2/2.1	20	30/92/100	—	425-1815-1-ND	7.43	4.05	3.38	4,000	1957.50/M	GM1WA80350A
3	5.7 x 6	Red/Green/Blue	Clear	647/518/468	2.0/4.5/4.5	50	300/500/150	—	425-1816-1-ND	5.53	4.09	3.43	800	2386.80	GM5WA02200A
4	6 x 6	Blue/Green/Red	Clear	469/520/628	4.2/4.2/2.3	50	1450	120°	425-1817-1-ND	5.23	3.87	3.24	800	2257.20	GM5WA06250A
5	5.7 x 6	Red/Green/Blue	Clear	617/520/469	2.3/4.4/4.6	50	1725	—	425-1818-1-ND	5.53	4.09	3.43	800	2386.80	GM5WA06260A
6	6 x 5	Blue/Green/Red	Clear	466/519/639	4.5/4.5/2.0	50	150/500/300	120°	425-1819-5-ND†§	4.93	3.65	3.06	—	—	GM5WA06200Z
6	6 x 5	Blue/Green/Red	Clear	469/520/628	4.2/4.2/2.3	50	1450	110°	425-1918-5-ND‡§	7.53	5.57	4.67	—	—	GM5WA06250Z
7	7 x 6	Red/Green/Blue	Clear	—	2.2/4.2/4.2	50	3000	—	425-1919-1-ND	5.98	4.43	3.71	800	2581.20	GM5WA06270A
8	2125 Size	Yellow-Green	Milky Diffusion	570	2.1	50	19.0	160°	425-1920-1-ND	.28	.21	.18	4,000	101.50/M	LT1E40A
		Green		555	2.1	50	5.0	160°	425-1921-1-ND	.28	.21	.18	4,000	101.50/M	LT1K40A
		Yellow		585	2.0	50	10.8	160°	425-1922-1-ND	.32	.24	.20	4,000	116.00/M	LT1H40A
		Red		635	2.0	50	11.9	160°	425-1923-1-ND	.32	.24	.20	4,000	116.00/M	LT1D40A
		Red		647	2.1	50	78.7	170°	425-1926-1-ND	.80	.60	.50	4,000	290.00/M	LT1ZR40A
		Amber		591	2.1	50	92.7	170°	425-1927-1-ND	.80	.60	.50	4,000	290.00/M	LT1ZV40A
9	1616 Size	Yellow-Green/Yellow	Milky Diffusion	565/585	2.1/2.0	50	19.0/8.3	130°	425-1924-1-ND	.44	.33	.28	4,000	159.50/M	LT1EH67A
		Yellow-Green/Red		565/635	2.1/2.0	50	19.0/8.8	130°	425-1925-1-ND	.48	.36	.30	4,000	174.00/M	LT1ED67A

* For Tape and Reel part number, change 1-ND to 2-ND. § Tube

Dimensions in mm

Fig. 1

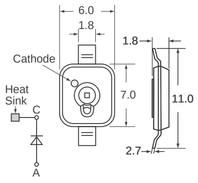

Golden Dragon LED®

Fig. 2

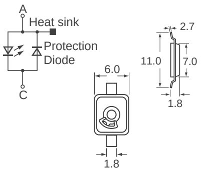

Golden Dragon LED®

Fig. 3

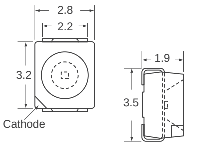

TOPLED®

Fig. 4

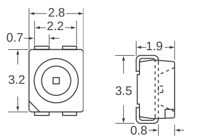

Power TOPLED®

Fig. 5

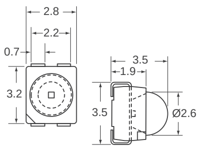

Power TOPLED® w/Lens

Fig. 6

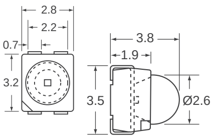

Power TOPLED® w/Lens

Fig. 7

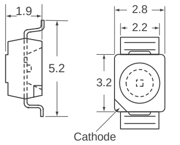

TOPLED® Reverse Gullwing

Fig. 8

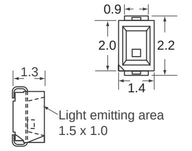

Mini TOPLED®

Fig. 9

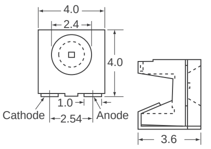

SIDELED®

Fig. 10

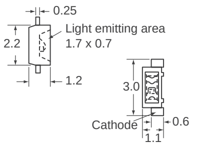

Micro SIDELED®

Fig. 11

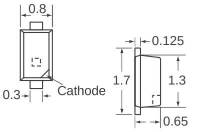

SmartLED®

Fig. 12

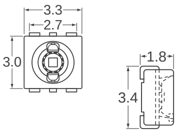

Advanced Power TOPLED®

Fig.	Package Type	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V)	Forward Current (mA)	Typ. mcd (@) Current (mA)	View Angle	Digi-Key Part No.		Price Each		Digi-Key Part No.	Tape & Reel		Osram Part No.
										1	10	100		Size	Pricing	
1	SMD	Amber	Clear	624	2.2	400	6,000 @ 400	120°	475-1000-1-ND	3.48	2.90	2.32	475-1000-2-ND	800	1392.00	LA W57B-FYGY-24
		Yellow	Clear	594	2.2	400	6,000 @ 400	120°	475-1001-1-ND	3.59	3.00	2.40	475-1001-2-ND	800	1436.80	LY W57B-FYGY-26
2	SMD	Verde Green	Clear	501	3.8	500	9,000 @ 350	120°	475-1119-1-ND	10.50	8.75	7.00	—	—	—	LV W5SG-GXHX-35
		White	Diffused	—	3.8	500	10,000 @ 350	120°	475-1120-1-ND	10.50	8.75	7.00	—	—	—	LW W5SG-GYHY-5K8L
3	P-LCC-2	Orange	Clear	610	2.0	30	210 @ 20	120°	475-1003-1-ND	.23	.20	.16	475-1003-2-ND	2,000	117.00/M	LO T676-R2S2-24
		Pure Green	Clear	562	2.0	30	19 @ 20	120°	475-1004-1-ND	.29	.24	.19	—	—	—	LP T676-L1M2-25
		Blue	Clear	465	3.6	20	98 @ 20	120°	475-1007-1-ND	1.29	1.08	.86	475-1007-2-ND	2,000	644.00/M	LB T67C-P2R1-35
		Verde Green	Clear	503	3.5	20	392 @ 20	120°	475-1009-1-ND	1.27	1.07	.85	475-1009-2-ND	2,000	637.00/M	LV T67C-S2U1-35
		Pure Green	Clear	562	1.8	20	13 @ 10	120°	475-1066-1-ND	.18	.16	.13	—	—	—	LP T67K-F1G2-25
		Orange	Clear	610	1.8	20	100 @ 10	120°	475-1065-1-ND	.17	.15	.12	475-1065-2-ND	2,000	87.00/M	LO T67K-L1M2-24
		Super-Red	Clear	643	1.8	20	40 @ 10	120°	475-1067-1-ND	.17	.15	.12	—	—	—	LS T67K-J1K2-1
		Yellow	Clear	591	1.8	20	80 @ 10	120°	475-1068-1-ND	.17	.15	.12	—	—	—	LY T67K-K2M1-26
		Amber	Clear	624	2.1	50	627 @ 30	120°	475-1063-1-ND	.31	.26	.21	—	—	—	LA T68B-T2V1-24
4	P-LCC-4	Amber	Clear	624	2.2	70	980 @ 50	120°	475-1011-1-ND	.43	.36	.29	475-1011-2-ND	2,000	213.00/M	LA E67B-U2AA-24-1
		Super-Red	Clear	645	2.2	70	627 @ 50	120°	475-1013-1-ND	.43	.37	.29	—	—	—	LS E67B-T2V1-1-1
		Amber	Clear	624	2.3	70	1,680 @ 50	120°	475-1061-1-ND	.53	.44	.36	475-1061-2-ND	2,000	264.00/M	LA E67F-AABA-24-1
5	P-LCC-4	Amber	Clear	624	2.2	70	2,475 @ 50	60°	475-1019-1-ND	.49	.41	.33	475-1019-2-ND	2,000	243.00/M	LA E65B-ABCA-24-1
		Amber	Clear	624	2.3	70	4,200 @ 50	60°	475-1060-1-ND	.62	.52	.42	475-1060-2-ND	2,000	311.00/M	LA E65F-CADA-24-1
		Blue	Clear	464	3.9	30	230 @ 30	20°	475-1024-1-ND	1.55	1.29	1.04	—	—	—	LB E63C-S2U1-35
		Verde Green	Clear	501	3.8	30	1,425 @ 30	20°	475-1026-1-ND	1.55	1.29	1.03	—	—	—	LV E63C-ABCA-35
6	P-LCC-4	Amber	Clear	624	2.2	70	5,700 @ 50	30°	475-1021-1-ND	.48	.41	.33	—	—	—	LA E63B-CBEA-24-1
		Super-Red	Clear	645	2.2	70	3,000 @ 50	30°	475-1022-1-ND	.50	.42	.34	—	—	—	LS E63B-BBCB-1-1
		Yellow	Clear	594	2.2	70	5,700 @ 50	30°	475-1023-1-ND	.57	.48	.38	475-1023-2-ND	2,000	284.00/M	LY E63B-CBEA-26-1
7	SMD	Amber	Clear	622	2.0	30	196 @ 20	120°	475-1027-1-ND	.25	.21	.17	475-1027-2-ND	2,000	126.00/M	LA T776-R1S2-1
		Orange	Clear	610	2.0	30	247 @ 20	120°	475-1028-1-ND	.25	.21	.17	475-1028-2-ND	2,000	126.00/M	LO T776-R2T1-24
		Pure Green	Clear	562	2.0	30	19.6 @ 20	120°	475-1029-1-ND	.30	.25	.20	—	—	—	LP T776-L1M2-25
8	SMD	Amber	Clear	622	2.0	30	157 @ 20	120°	475-1032-1-ND	.25	.21	.17	—	—	—	LA M676-Q2S1-1
		Orange	Clear	610	2.0	30	196 @ 20	120°	475-1034-1-ND	.25	.21	.17	—	—	—	LO M676-R1S2-24
		White	Diffused	—	3.6	20	420 @ 20	120°	475-1039-1-ND	1.51	1.26	1.01	475-1039-2-ND	3,000	753.00/M	LW M67C-T1U1-3C5D
9	SMD	Amber	Clear	622	2.0	30	196 @ 20	120°	475-1040-1-ND	.28	.23	.19	—	—	—	LA A676-R1S2-1
		Orange	Clear	610	2.0	30	196 @ 20	120°	475-1041-1-ND	.28	.24	.19	475-1041-2-ND	2,000	141.00/M	LO A676-R1S2-24
		Yellow	Clear	591	2.0	30	157 @ 20	120°	475-1044-1-ND	.29	.24	.19	—	—	—	LY A676-Q2S1-26
		Blue	Clear	465	3.6	20	98 @ 20	120°	475-1045-1-ND	1.29	1.08	.86	475-1045-2-ND	2,000	644.00/M	LB A67C-P2R1-35
10	SMD	Amber	Clear	622	2.0	30	196 @ 20	120°	475-1048-1-ND	.27	.23	.18	475-1048-2-ND	3,000	134.00/M	LA Y876-R1S2-1
		Orange	Clear	610	2.0	30	250 @ 20	120°	475-1049-1-ND	.27	.23	.18	475-1049-2-ND	3,000	134.00/M	LO Y876-R2T1-24
		Yellow	Clear	591	2.0	30	196 @ 20	120°	475-1051-1-ND	.28	.24	.19	475-1051-2-ND	3,000	140.00/M	LY Y876-R1S2-26
		Blue	Clear	465	3.4	15	31 @ 10	120°	475-1053-1-ND	1.05	.88	.70	—	—	—	LB Y87S-M1N2-35
		True Green	Clear	523	3.4	15	78 @ 10	120°	475-1054-1-ND	1.03	.86	.69	—	—	—	LT Y87S-P1Q2-35
		White	Diffused	—	3.6	20	420 @ 20	120°	475-1055-1-ND	1.73	1.44	1.15	—	—	—	LW Y87C-T1U1-3C5D
11	SMD 0603	Green	Diffused	572	2.2	20	20 @ 20	160°	475-1056-1-ND	.20	.17	.13	475-1056-2-ND	5,000	98.00/M	LG L890-L1M2-1
		Orange	Diffused	610	1.8	15	50 @ 10	160°	475-1057-1-ND	.21	.18	.14	475-1057-2-ND	5,000	104.00/M	LO L89K-J2L1-24
		Super-Red	Diffused	643	1.8	15	25 @ 10	160°	475-1058-1-ND	.21	.18	.14	475-1058-2-ND	5,000	104.00/M	LS L89K-H1J2-1
		Yellow	Diffused	591	1.8	15	30 @ 10	160°	475-1059-1-ND	.21	.18	.14	475-1059-2-ND	5,000	104.00/M	LY L89K-H2K1-26

(Continued)

LEDs *(Cont.)*

Fig.	Package Type	Emitted Color	Lens Color	Wave Peak (nm)	Forward Voltage (V)	Forward Current (mA)	Typ. mcd (@) Current (mA)	View Angle	Digi-Key Part No.	Price Each 1	10	100	Digi-Key Part No.	Tape & Reel Size	Pricing	Osram Part No.
							RoHS Compliant									
1	SMD	Amber	Clear	624	2.2	400	6,000 @ 400	120°	475-1129-1-ND	2.47	2.06	1.65	475-1129-2-ND	800	988.00	LA W57B-FYGY-24-Z
		Yellow	Clear	594	2.2	400	6,000 @ 400	120°	475-1183-1-ND	2.47	2.06	1.65	475-1183-2-ND	800	988.00	LY W57B-FYGY-26-Z
2	SMD	True Green	Clear	520	3.8	500	10,000 @ 350	120°	475-1126-1-ND	7.25	6.05	4.84	475-1126-2-ND	800	2901.60	LT W5SG-GXHY-35-Z
		White	Diffused	—	—	500	10,000 @ 350	120°	475-1182-1-ND	8.37	6.98	5.58	475-1182-2-ND	800	3348.00	LW W5SG-GYHY-5K8L-Z
		Blue	Clear	465	3.8	500	2,700 @ 350	120°	475-1198-1-ND	7.25	6.05	4.84	475-1198-2-ND	800	2901.60	LB W5SG-DYEZ-35-Z
		Verde Green	Clear	501	3.8	500	9,000 @ 350	120°	475-1199-1-ND	7.25	6.05	4.84	475-1199-2-ND	800	2901.60	LV W5SG-GXHX-35-Z
3	P-LCC-2	Amber	Clear	622	2.0	30	280@20	120°	475-1130-1-ND	.18	.15	.12	475-1130-2-ND	2,000	89.00/M	LA T676-R1S2-1-Z
		Orange	Clear	610	2.0	30	355 @ 20	120°	475-1131-1-ND	.16	.14	.11	475-1131-2-ND	2,000	82.00/M	LO T676-Q2T1-24-Z
		Pure Green	Clear	562	2.0	30	28 @ 20	120°	475-1132-1-ND	.25	.21	.17	475-1132-2-ND	2,000	124.00/M	LP T676-L1M2-25-Z
		Super-Red	Clear	645	2.0	30	180 @ 20	120°	475-1133-1-ND	.18	.15	.12	475-1133-2-ND	2,000	89.00/M	LS T676-Q1R2-1-Z
		Blue	Clear	465	3.6	20	140 @ 20	120°	475-1135-1-ND	1.11	.93	.74	475-1135-2-ND	2,000	553.00/M	LB T67C-P2R1-35-Z
		True Green	Clear	523	3.5	20	560 @ 20	120°	475-1136-1-ND	1.11	.93	.74	475-1136-2-ND	2,000	553.00/M	LT T67C-S2U1-35-Z
		Verde Green	Clear	503	3.5	20	450 @ 20	120°	475-1137-1-ND	1.10	.92	.74	475-1137-2-ND	2,000	551.00/M	LV T67C-S1T2-35-Z
		White	Diffused	—	3.6	20	560 @ 20	120°	475-1138-1-ND	1.13	.95	.76	475-1138-2-ND	2,000	566.00/M	LW T67C-S2U1-5K8L-Z
		Amber	Clear	624	2.1	50	900 @ 30	120°	475-1176-1-ND	.28	.24	.19	475-1176-2-ND	2,000	142.00/M	LA T68B-T2V1-24-Z
		Orange	Clear	610	1.8	20	28 @ 2	120°	475-1178-1-ND	.16	.14	.11	475-1178-2-ND	2,000	82.00/M	LO T67K-L1M2-24-Z
		Pure Green	Clear	562	1.8	20	2.8 @ 2	120°	475-1179-1-ND	.16	.14	.11	475-1179-2-ND	2,000	82.00/M	LP T67K-F1G2-25-Z
		Super-Red	Clear	643	1.8	20	11.2 @ 2	120°	475-1180-1-ND	.15	.13	.11	475-1180-2-ND	2,000	77.00/M	LS T67K-J1K2-1-Z
		Yellow	Clear	591	1.8	20	22.4 @ 2	120°	475-1181-1-ND	.16	.14	.11	475-1181-2-ND	2,000	82.00/M	LY T67K-K2M1-26-Z
4	P-LCC-4	Amber	Clear	624	2.2	70	1,400 @ 50	120°	475-1139-1-ND	.36	.30	.25	475-1139-2-ND	2,000	180.00/M	LA E67B-U2AA-24-1-Z
		True Green	Clear	520	3.8	30	627 @ 30	120°	475-1141-1-ND	1.26	1.06	.85	475-1141-2-ND	2,000	631.00/M	LT E67C-T2V1-35-Z
		Verde Green	Clear	501	3.8	30	710 @ 30	120°	475-1142-1-ND	1.29	1.08	.87	475-1142-2-ND	2,000	645.00/M	LV E67C-T1U2-35-Z
		Orange	Clear	610	2.2	70	1,400 @ 50	120°	475-1184-1-ND	.35	.29	.24	475-1184-2-ND	2,000	173.00/M	LO E67B-U2AA-24-1-Z
		Super-Red	Clear	645	2.2	70	900 @ 50	120°	475-1185-1-ND	.38	.32	.26	475-1185-2-ND	2,000	189.00/M	LS E67B-T2V1-1-1-Z
		Yellow	Clear	594	2.2	70	1,400 @ 50	120°	475-1186-1-ND	.36	.31	.25	475-1186-2-ND	2,000	182.00/M	LY E67B-U2AA-26-1-Z
		White	Diffused	—	3.9	30	1,120 @ 30	120°	475-1187-1-ND	1.16	.97	.78	475-1187-2-ND	2,000	582.00/M	LW E67C-T1V2-5K8L-1-Z
5	P-LCC-4	Amber	Clear	624	2.3	70	2,240 @ 50	120°	475-1197-1-ND	.45	.38	.30	475-1197-2-ND	2,000	223.00/M	LA E67F-AABA-24-1-Z
		True Green	Clear	520	3.8	30	4,500 @ 30	20°	475-1143-1-ND	1.26	1.06	.85	475-1143-2-ND	2,000	631.00/M	LT E63C-BACB-35-L-Z
		Verde Green	Clear	501	3.8	30	3,550 @ 30	20°	475-1144-1-ND	1.26	1.06	.85	475-1144-2-ND	2,000	631.00/M	LV E63C-ABCA-35-L-Z
		Amber	Clear	624	2.3	70	5,600 @ 50	60°	475-1174-1-ND	.53	.45	.36	475-1174-2-ND	2,000	264.00/M	LA E65F-CADA-24-1-Z
		Yellow	Clear	594	2.2	70	2,800 @ 50	60°	475-1189-1-ND	.41	.35	.28	475-1189-2-ND	2,000	206.00/M	LY E65B-AABB-26-1-Z
6	P-LCC-4	Amber	Clear	624	2.2	70	4,700 @ 50	30°	475-1190-1-ND	.41	.35	.28	475-1190-2-ND	2,000	206.00/M	LA E63B-CBEA-24-1-Z
		Super-Red	Clear	645	2.2	70	2,525 @ 50	30°	475-1191-1-ND	.43	.36	.29	475-1191-2-ND	2,000	215.00/M	LS E63B-BBCB-1-1-Z
		Yellow	Clear	594	2.2	70	4,700 @ 50	30°	475-1192-1-ND	.43	.36	.29	475-1192-2-ND	2,000	213.00/M	LY E63B-CBEA-26-1-Z
7	SMD	Amber	Clear	622	2.0	30	280 @ 20	120°	475-1145-1-ND	.23	.20	.16	475-1145-2-ND	2,000	115.00/M	LA T776-R1S2-1-Z
		Orange	Clear	610	2.0	30	280 @ 20	120°	475-1146-1-ND	.20	.17	.14	475-1146-2-ND	2,000	98.00/M	LO T776-Q2T1-24-Z
		Pure Green	Clear	562	2.4	30	28 @ 20	120°	475-1147-1-ND	.28	.24	.19	475-1147-2-ND	2,000	139.00/M	LP T776-L1M2-25-Z
		Super-Red	Clear	645	2.0	30	180 @ 20	120°	475-1148-1-ND	.20	.17	.14	475-1148-2-ND	2,000	98.00/M	LS T776-Q1R2-1-Z
		Yellow	Clear	591	2.0	30	280 @ 20	120°	475-1149-1-ND	.21	.18	.15	475-1149-2-ND	2,000	94.00/M	LY T776-R1S2-26-Z
8	SMD	Amber	Clear	622	2.0	30	224 @ 20	120°	475-1150-1-ND	.18	.15	.12	475-1150-2-ND	3,000	89.00/M	LA M676-Q2S1-1-Z
		Green	Clear	572	2.4	30	90 @ 20	120°	475-1151-1-ND	.24	.21	.17	475-1151-2-ND	3,000	122.00/M	LG M676-N2Q1-24-Z
		Orange	Clear	610	2.0	30	224 @ 20	120°	475-1152-1-ND	.20	.17	.14	475-1152-2-ND	3,000	98.00/M	LO M676-Q2S1-24-Z
		Super-Red	Clear	645	2.0	30	140 @ 20	120°	475-1153-1-ND	.20	.17	.14	475-1153-2-ND	3,000	98.00/M	LS M676-P2R1-1-Z
		Yellow	Clear	591	2.0	30	355 @ 20	120°	475-1154-1-ND	.20	.17	.14	475-1154-2-ND	3,000	98.00/M	LY M676-Q2S1-26-Z
		Blue	Clear	466	3.2	20	28 @ 10	120°	475-1155-1-ND	.96	.81	.65	475-1155-2-ND	3,000	480.00/M	LB M673-L1M2-35-Z
		True Green	Clear	527	3.0	20	180 @ 10	120°	475-1156-1-ND	.96	.81	.65	475-1156-2-ND	3,000	480.00/M	LT M673-N1R2-35-Z
		White	Diffused	—	—	20	450 @ 20	120°	475-1157-1-ND	1.20	1.00	.80	475-1157-2-ND	3,000	599.00/M	LW M67C-S1T2-5K8L-Z
9	SMD	Amber	Clear	622	2.0	30	280 @ 20	120°	475-1158-1-ND	.20	.17	.14	475-1158-2-ND	2,000	98.00/M	LA A676-R1S2-1-Z
		Orange	Clear	610	2.0	30	280 @ 20	120°	475-1159-1-ND	.20	.17	.14	475-1159-2-ND	2,000	98.00/M	LO A676-R1S2-24-Z
		Pure Green	Clear	562	2.4	30	28 @ 20	120°	475-1160-1-ND	.28	.24	.19	475-1160-2-ND	2,000	139.00/M	LP A676-L1M2-25-Z
		Yellow	Clear	591	2.0	30	355 @ 20	120°	475-1162-1-ND	.20	.17	.14	475-1162-2-ND	2,000	98.00/M	LY A676-Q2T1-26-Z
		Blue	Clear	465	3.6	20	140 @ 20	120°	475-1163-1-ND	1.07	.90	.72	475-1163-2-ND	2,000	537.00/M	LB A67C-P2R1-35-Z
		True Green	Clear	523	3.5	20	560 @ 20	120°	475-1164-1-ND	1.11	.93	.74	475-1164-2-ND	2,000	553.00/M	LT A67C-S2U1-35-Z
		White	Diffused	—	3.6	20	560 @ 20	120°	475-1165-1-ND	1.20	1.00	.80	475-1165-2-ND	2,000	599.00/M	LW A67C-S2U1-5K8L-Z
		Pure Green	Clear	562	2.0	40	71 @ 30	120°	475-1175-1-ND	.36	.30	.25	475-1175-2-ND	2,000	180.00/M	LP A675-N1P2-25-Z
10	SMD	Amber	Clear	622	2.0	30	224 @ 20	120°	475-1166-1-ND	.21	.18	.15	475-1166-2-ND	3,000	106.00/M	LA Y876-Q2S1-1-Z
		Orange	Clear	610	2.0	30	355 @ 20	120°	475-1167-1-ND	.23	.20	.16	475-1167-2-ND	3,000	115.00/M	LO Y876-R2T1-24-Z
		Super-Red	Clear	645	2.0	30	140 @ 20	120°	475-1168-1-ND	.21	.18	.15	475-1168-2-ND	3,000	106.00/M	LS Y876-P2R1-1-Z
		Yellow	Clear	591	2.0	30	224 @ 20	120°	475-1169-1-ND	.21	.18	.15	475-1169-2-ND	3,000	106.00/M	LY Y876-Q2S1-26-Z
		Green	Clear	572	2.5	30	22.4 @ 10	120°	475-1170-1-ND	.19	.16	.13	475-1170-2-ND	3,000	93.00/M	LG Y870-K2M1-1-Z
		Blue	Clear	465	3.8	15	45 @ 10	120°	475-1171-1-ND	.93	.78	.62	475-1171-2-ND	3,000	465.00/M	LB Y87S-M1N2-35-Z
		True Green	Clear	523	3.8	15	112 @ 10	120°	475-1172-1-ND	1.03	.86	.69	475-1172-2-ND	3,000	513.00/M	LT Y87S-P1Q2-35-Z
		White	Diffused	—	3.6	20	450 @ 20	120°	475-1173-1-ND	.95	.80	.64	475-1173-2-ND	3,000	477.00/M	LW Y87C-S1T2-3K8L-Z
11	SMD 0603	Yellow	Diffused	591	1.8	20	11.20 @ 2	160°	475-1196-1-ND	.21	.18	.14	—	—	—	LY L29K-H1K2-26
12	P-LCC-6	Amber	Clear	624	2.4	200	5,600 @ 140	120°	475-1127-1-ND	1.03	.86	.69	475-1127-2-ND	1,000	515.00	LA G67F-CADA-24-1-Z
		Yellow	Clear	594	2.2	200	3,550 @ 140	120°	475-1128-1-ND	.86	.73	.58	475-1128-2-ND	1,000	432.00	LY G67B-ABCA-26-1-Z

Dimensions in mm

Fig. 1

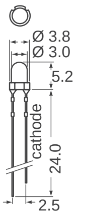

Fig. 2

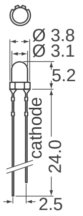

Fig. 3

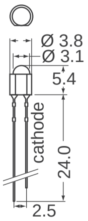

Fig. 4

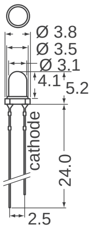

Fig. 5

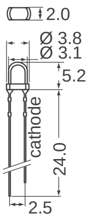

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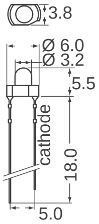

Fig. 7

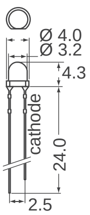

Fig. 8

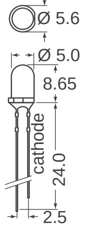

Fig. 9

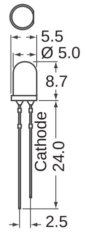

Fig. 10

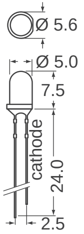

Fig. 11

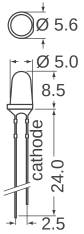

Fig. 12

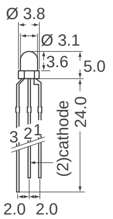

Fig. 13

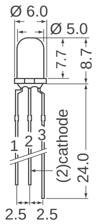

Fig.	Package Type	Emitted Color	Lens	Peak Wavelength (nm)	Forward Voltage (Typ.) (V)	Forward Current (mA)	Luminous Intensity (Typ.)		View Angle	Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Tape & Reel		Rohm Part No.
							mcd	@ I_F(mA)			1	25	100		Size	Pricing	
1	3.0mm	Green	Water Clear	563	2.2	25	100	20	25°	511-1191-ND‡	.53	6.53	21.25	—	—	—	SLA-370MT3F
		Red	Water Clear	660	1.75	50	100	20	25°	511-1190-ND‡	.53	6.53	21.25	—	—	—	SLA-370LT3F
2	3.1mm	Green	Water Clear	563	2.2	25	100	20	40°	511-1189-ND‡	.61	7.48	24.32	—	—	—	SLA-360MT3F
		Red	Water Clear	660	1.75	50	68	20	40°	511-1188-ND‡	.61	7.48	24.32	—	—	—	SLA-360LT3F
3	3.1mm	Red	Diffused	630	1.9	50	350	20	40°	511-1210-ND‡	.80	9.80	31.87	—	—	—	SLI-343UR3F
		Red	Transparent	630	1.9	50	450	20	40°	511-1211-ND‡	.80	9.80	31.87	—	—	—	SLI-343URC3F
		Orange	Diffused	611	1.9	50	350	20	40°	511-1209-ND‡	.80	9.80	31.87	—	—	—	SLI-343DU3F
		Orange	Transparent	611	1.9	50	500	20	40°	511-1208-ND‡	.80	9.80	31.87	—	—	—	SLI-343DC3F
		Yellow	Diffused	591	1.9	50	300	20	40°	511-1213-ND‡	.80	9.80	31.87	—	—	—	SLI-343YY3F
		Yellow	Transparent	591	1.9	50	350	20	40°	511-1212-ND‡	.80	9.80	31.87	—	—	—	SLI-343YC3F
		Red	Diffused	650	2	20	16	10	40°	511-1256-1-ND	.33	3.36	11.32	511-1256-3-ND§	2,000	78.00/M	SLR-343VRT32
		Red	Transparent	650	2	20	25	10	40°	511-1255-1-ND	.33	3.36	11.32	511-1255-3-ND§	2,000	78.00/M	SLR-343VCT32
		Yellow	Diffused	585	2.1	20	10	10	40°	511-1258-1-ND	.33	3.36	11.32	511-1258-3-ND§	2,000	78.00/M	SLR-343YYT32
		Yellow	Transparent	585	2.1	20	16	10	40°	511-1257-1-ND	.33	3.36	11.32	511-1257-3-ND§	2,000	78.00/M	SLR-343YCT32
		Green	Diffused	563	2.1	25	16	10	40°	511-1254-1-ND	.33	3.36	11.32	511-1254-3-ND§	2,000	78.00/M	SLR-343MGT32
		Green	Transparent	563	2.1	25	25	10	40°	511-1253-1-ND	.33	3.36	11.32	511-1253-3-ND§	2,000	78.00/M	SLR-343MCT32
		Green	Water Clear	518	3.8	20	2000	20	40°	511-1367-ND	1.92	28.33	96.60	—	—	—	SLR343ECT3F
		Green	Water Clear	523	3.5	30	1500	20	40°	511-1268-ND‡	2.05	30.28	102.00	—	—	—	SLR343EBT3F
		Blue	Water Clear	468	3.5	20	600	20	40°	511-1368-ND	2.16	31.87	108.68	—	—	—	SLR343BCT3F
		Blue	Water Clear	468	3.5	30	200	20	40°	511-1267-ND‡	2.05	30.28	102.00	—	—	—	SLR343BBT3F
4	3.1mm	Red	Diffused	650	2	20	16	10	40°	511-1250-ND‡	.27	3.10	9.00	—	—	—	SLR-342VR3F
		Red	Transparent	650	2	20	25	10	40°	511-1249-ND‡	.36	3.62	12.20	—	—	—	SLR-342VC3F
		Orange	Diffused	610	2	20	16	10	40°	511-1246-ND‡	.36	3.62	12.20	—	—	—	SLR-342DU3F
		Orange	Transparent	610	2	20	25	10	40°	511-1245-ND‡	.36	3.62	12.20	—	—	—	SLR-342DC3F
		Yellow	Diffused	585	2.1	20	10	10	40°	511-1252-ND‡	.31	3.11	10.45	—	—	—	SLR-342YY3F
		Yellow	Transparent	585	2.1	20	16	10	40°	511-1251-ND‡	.36	3.62	12.20	—	—	—	SLR-342YC3F
		Green	Diffused	563	2.1	25	16	10	40°	511-1248-ND‡	.31	3.11	10.45	—	—	—	SLR-342MG3F
		Green	Transparent	563	2.1	25	25	10	40°	511-1247-ND‡	.36	3.62	12.20	—	—	—	SLR-342MC3F
5	3.1 x 2.0mm	Red	Diffused	650	2	20	10	10	55°	511-1228-ND‡	.31	3.80	11.43	—	—	—	SLR-322VR3F
		Red	Transparent	650	2	20	16	10	35°	511-1227-ND‡	.31	3.80	11.43	—	—	—	SLR-322VC3F
		Orange	Diffused	610	2	20	6.3	10	55°	511-1224-ND‡	.31	3.80	11.43	—	—	—	SLR-322DU3F
		Orange	Transparent	610	2	20	16	10	35°	511-1223-ND‡	.31	3.80	11.43	—	—	—	SLR-322DC3F
		Yellow	Diffused	585	2.1	20	10	10	55°	511-1230-ND‡	.31	3.80	11.43	—	—	—	SLR-322YY3F
		Yellow	Transparent	585	2.1	20	10	10	35°	511-1229-ND‡	.31	3.80	11.43	—	—	—	SLR-322YC3F
		Green	Diffused	563	2.1	25	10	10	55°	511-1226-ND‡	.31	3.80	11.43	—	—	—	SLR-322MG3F
		Green	Transparent	563	2.1	25	25	10	35°	511-1225-ND‡	.31	3.80	11.43	—	—	—	SLR-322MC3F
6	3.2mm	Red	Diffused	630	1.85	20	100	20	40°	511-1205-1-ND	.76	9.36	30.46	511-1205-3-ND§	2,000	227.00/M	SLI-325URT31W
		Red	Transparent	630	1.85	20	100	20	40°	511-1204-1-ND	.76	9.36	30.46	511-1204-3-ND§	2,000	227.00/M	SLI-325URCT31W
		Orange	Diffused	611	1.9	20	100	20	40°	511-1203-1-ND	.76	9.36	30.46	511-1203-3-ND§	2,000	227.00/M	SLI-325DUT31W
		Orange	Transparent	611	1.9	20	100	20	40°	511-1202-1-ND	.76	9.36	30.46	511-1202-3-ND§	2,000	227.00/M	SLI-325DCT31W
		Yellow	Diffused	590	1.9	20	100	20	40°	511-1207-1-ND	.76	9.36	30.46	511-1207-3-ND§	2,000	227.00/M	SLI-325YYT31W
		Yellow	Transparent	590	1.9	20	100	20	40°	511-1206-1-ND	.76	9.36	30.46	511-1206-3-ND§	2,000	227.00/M	SLI-325YCT31W
		Red	Diffused	650	2	20	10	10	40°	511-1234-1-ND	.41	5.00	15.07	511-1234-3-ND§	2,000	109.00/M	SLR-325VRT31
		Red	Transparent	650	2	20	16	10	40°	511-1233-1-ND	.41	5.00	15.07	511-1233-3-ND§	2,000	109.00/M	SLR-325VCT31
		Yellow	Diffused	585	2.1	20	6.3	10	40°	511-1236-1-ND	.41	5.00	15.07	511-1236-3-ND§	2,000	109.00/M	SLR-325YYT31
		Yellow	Transparent	585	2.1	20	16	10	40°	511-1235-1-ND	.41	5.00	15.07	511-1235-3-ND§	2,000	109.00/M	SLR-325YCT31
		Green	Diffused	563	2.1	25	16	10	40°	511-1232-1-ND	.41	5.00	15.07	511-1232-3-ND§	2,000	109.00/M	SLR-325MGT31
		Green	Transparent	563	2.1	25	25	10	40°	511-1231-1-ND	.41	5.00	15.07	511-1231-3-ND§	2,000	109.00/M	SLR-325MCT31
7	3.2mm	Red	Diffused	650	2	20	10	10	85°	511-1242-ND‡	.36	3.62	12.20	—	—	—	SLR-332VR3F
		Red	Transparent	650	2	20	10	10	75°	511-1241-ND‡	.36	3.62	12.20	—	—	—	SLR-332VC3F
		Orange	Diffused	610	2	20	10	10	85°	511-1238-ND‡	.36	3.62	12.20	—	—	—	SLR-332DU3F
		Orange	Transparent	610	2	20	16	10	75°	511-1237-ND‡	.36	3.62	12.20	—	—	—	SLR-332DC3F
		Yellow	Diffused	585	2.1	20	6.3	10	85°	511-1244-ND‡	.36	3.62	12.20	—	—	—	SLR-332YY3F
		Yellow	Transparent	585	2.1	20	10	10	75°	511-1243-ND‡	.36	3.62	12.20	—	—	—	SLR-332YC3F
		Green	Diffused	563	2.1	25	16	10	85°	511-1240-ND‡	.36	3.62	12.20	—	—	—	SLR-332MG3F
		Green	Transparent	563	2.1	25	16	10	75°	511-1239-ND‡	.36	3.62	12.20	—	—	—	SLR-332MC3F
8	5mm	Red	Water Clear	660	1.75	50	220	20	25°	511-1194-ND‡	.61	7.48	24.32	—	—	—	SLA-570LT3F
		Green	Water Clear	563	2.2	25	185	20	25°	511-1195-ND‡	.37	4.49	13.51	—	—	—	SLA-570MT3F
		Red	Water Clear	630	1.9	50	3,000	20	25°	511-1218-ND‡	.54	6.64	20.00	—	—	—	SLI-570UT3F
		Orange	Water Clear	611	1.9	50	3,000	20	25°	511-1217-ND‡	.54	6.64	20.00	—	—	—	SLI-570DT3F
		Yellow	Water Clear	591	1.9	50	2,500	20	25°	511-1219-ND‡	.54	6.64	20.00	—	—	—	SLI-570YT3F
9	5mm	Red	Diffused	650	2	20	10	10	40°	511-1264-ND‡	.33	3.36	11.32	—	—	—	SLR-56VR3F
		Red	Transparent	650	2	20	25	10	35°	511-1263-ND‡	.34	4.14	12.47	—	—	—	SLR-56VC3F
		Orange	Diffused	610	2	20	10	10	40°	511-1260-ND‡	.34	4.14	12.47	—	—	—	SLR-56DU3F
		Orange	Transparent	610	2	20	25	10	35°	511-1259-ND‡	.34	4.14	12.47	—	—	—	SLR-56DC3F
		Yellow	Diffused	585	2.1	20	10	10	40°	511-1266-ND‡	.33	3.36	11.32	—	—	—	SLR-56YY3F
		Yellow	Transparent	585	2.1	20	25	10	35°	511-1265-ND‡	.34	4.14	12.47	—	—	—	SLR-56YC3F
		Green	Diffused	563	2.1	25	16	10	40°	511-1262-ND‡	.33	3.36	11.32	—	—	—	SLR-56MG3F
		Green	Transparent	563	2.1	25	40	10	35°	511-1261-ND‡	.34	4.14	12.47	—	—	—	SLR-56MC3F
10	5mm	Blue	Water Clear	468	3.5	30	150	20	40°	511-1198-ND‡	2.05	30.28	102.00	—	—	—	SLA560BBT3F
		Green	Water Clear	523	3.5	30	680	20	40°	511-1199-ND‡	2.05	30.28	102.00	—	—	—	SLA560EBT3F
		Red	Water Clear	660	1.75	50	100	20	40°	511-1192-ND‡	.50	7.25	21.82	—	—	—	SLA-560LT3F
		Green	Water Clear	563	2.2	25	100	20	40°	511-1193-ND‡	.46	5.61	16.89	—	—	—	SLA-560MT3F
		Red	Water Clear	630	1.9	50	1,000	20	40°	511-1215-ND‡	.50	6.12	18.44	—	—	—	SLI-560UT3F
		Orange	Water Clear	611	1.9	50	1,000	20	40°	511-1214-ND‡	.54	6.64	20.00	—	—	—	SLI-560DT3F
		Yellow	Water Clear	591	1.9	50	1,000	20	40°	511-1216-ND‡	.54	6.64	20.00	—	—	—	SLI-560YT3F
11	5mm	Blue	Water Clear	468	3.5	30	1,000	20	16°	511-1200-ND‡	2.05	30.28	102.00	—	—	—	SLA580BBT3F
		Blue	Water Clear	468	3.5	20	2500	20	12°	511-1370-ND	2.13	31.46	107.27	—	—	—	SLA580BCT3F
		Green	Water Clear	523	3.5	30	4,500	20	16°	511-1201-ND‡	2.05	30.28	102.00	—	—	—	SLA580EBT3F
		Green	Water Clear	518	3.8	20	8000	20	12°	511-1369-ND	2.40	35.41	120.75	—	—	—	SLA580ECT3F
		Red	Water Clear	660	1.75	50	470	20	10°	511-1196-ND‡	.50	7.25	21.82	—	—	—	SLA-580LT3F
		Green	Water Clear	563	2.2	25	470	20	10°	511-1197-ND‡	.41	5.00	15.07	—	—	—	SLA-580MT3F
		Red	Water Clear	630	1.9	50	5,000	20	10°	511-1221-ND‡	.54	6.64	20.00	—	—	—	SLI-580UT3F
		Orange	Water Clear	611	1.9	50	5,000	20	10°	511-1220-ND‡	.54	6.64	20.00	—	—	—	SLI-580DT3F
		Yellow	Water Clear	591	1.9	50	5,000	20	10°	511-1222-ND‡	.54	6.64	20.00	—	—	—	SLI-580YT3F

‡ Bulk §Tape and Box

(Continued)

Dimensions in mm

Fig. 14

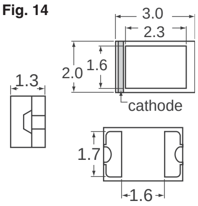

Fig. 15

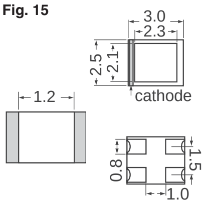

Fig. 16

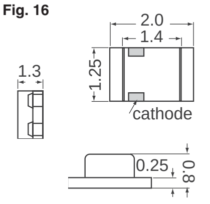

Fig. 17

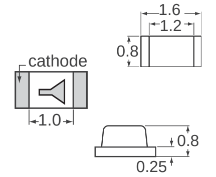

Fig. 18

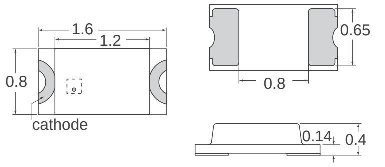

Fig. 19

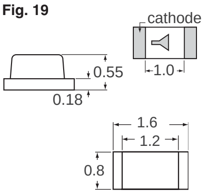

Fig. 20

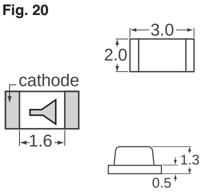

Fig. 21

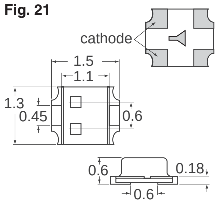

Fig. 22

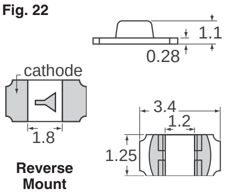

Fig. 23

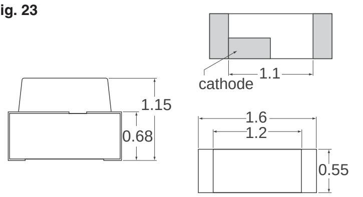

Fig.	Package Type	Emitted Color	Lens	Peak Wavelength (nm)	Forward Voltage (Typ.) (V)	Forward Current (mA)	Luminous Intensity (Typ.) mcd	@ I_F(mA)	View Angle	Digi-Key Part No.	Cut Tape Pricing 1	25	100	Digi-Key Part No.	Tape & Reel Size	Tape & Reel Pricing	Rohm Part No.
12	3.1mm	Red/Green	Milky White	650/563	2/2.1	20/25	6.3/10	10	60°	511-1334-ND‡	.61	7.48	24.32	—	—	—	SPR-39MVWF
13	5mm	Red/Green	Milky White	650/563	2/2.1	20/25	6.3/10	10	40°	511-1335-ND‡	.82	10.09	32.82	—	—	—	SPR-54MVWF
14	3 x 2mm	Blue	Water Clear	428	3.8	20	9	20	110°	511-1328-1-ND	1.09	15.00	49.07	511-1328-2-ND	2,500	389.00/M	SML010BATT86
		Red	Water Clear	660	1.75	30	16	20	110°	511-1271-1-ND	.38	4.66	14.03	511-1271-2-ND	2,500	101.00/M	SML-010LTT86
		Red	Water Clear	650	2	30	6.3	20	110°	511-1274-1-ND	.37	4.49	13.51	511-1274-2-ND	2,500	98.00/M	SML-010VTT86
		Orange	Water Clear	610	2	25	10	20	110°	511-1269-1-ND	.38	4.66	14.03	511-1269-2-ND	2,500	101.00/M	SML-010DTT86
		Yellow	Water Clear	585	2.1	25	6.3	20	110°	511-1275-1-ND	.37	4.49	13.51	511-1275-2-ND	2,500	98.00/M	SML-010YTT86
		Green	Water Clear	570	2.2	25	25	20	110°	511-1272-1-ND	.31	3.80	11.43	511-1272-2-ND	2,500	83.00/M	SML-010MTT86
		Green	Water Clear	560	2.2	25	10	20	110°	511-1270-1-ND	.38	4.66	14.03	511-1270-2-ND	2,500	101.00/M	SML-010FTT86
		Green	Water Clear	555	2.2	25	6.3	20	110°	511-1273-1-ND	.38	4.66	14.03	511-1273-2-ND	2,500	101.00/M	SML-010PTT86
		Blue	Water Clear	468	3.5	20	25	20	110°	511-1329-1-ND	1.81	22.72	81.78	511-1329-2-ND	2,500	623.00/M	SML011BBTT86
		Green	Water Clear	523	3.5	20	90	20	110°	511-1330-1-ND	2.05	30.28	102.00	511-1330-2-ND	2,500	830.00/M	SML011EBTT86
		Red	Water Clear	630	2	30	63	20	110°	511-1276-1-ND	.53	6.53	21.25	511-1276-2-ND	2,500	158.00/M	SML-011UTT86
		Red	Water Clear	630	2	30	100	20	110°	511-1278-1-ND	.57	7.04	22.90	511-1278-2-ND	2,500	171.00/M	SML-012UTT86
		Orange	Water Clear	611	2	30	100	20	110°	511-1277-1-ND	.57	7.04	22.90	511-1277-2-ND	2,500	171.00/M	SML-012DTT86
		Yellow	Water Clear	590	2	30	100	20	110°	511-1279-1-ND	.57	7.04	22.90	511-1279-2-ND	2,500	171.00/M	SML-012YTT86
15	3 x 2.5mm	Red/Grn	Water Clear	650/570	2/2.2	30/25	6.3/20	20	110°	511-1281-1-ND	.53	6.53	21.25	511-1281-2-ND	2,500	158.00/M	SML-020MVTT86
		Red/Grn	Water Clear	660/570	1.75/2.2	30/25	16/20	20	110°	511-1280-1-ND	.53	6.53	21.25	511-1280-2-ND	2,500	158.00/M	SML-020MLTT86
		Yellow/Grn	Water Clear	585/570	2.1/2.2	30/25	6.3/20	20	110°	511-1282-1-ND	.53	6.53	21.25	511-1282-2-ND	2,500	158.00/M	SML-020MYTT87
		Orange/Grn	Water Clear	610/555	2/2.2	30/25	10/4	20	110°	511-1283-1-ND	.57	7.04	22.90	511-1283-2-ND	2,500	171.00/M	SML-020PDTT87
16	0805	Bright Red	Water Clear	660	1.75	30	10	20	140°	511-1286-1-ND	.30	3.71	12.49	511-1286-2-ND	3,000	81.00/M	SML-210LTT86
		Red	Water Clear	650	2	25	4	20	140°	511-1289-1-ND	.31	3.11	10.45	511-1289-2-ND	3,000	68.00/M	SML-210VTT86
		Orange	Water Clear	610	2	25	6.3	20	140°	511-1284-1-ND	.30	3.71	12.49	511-1284-2-ND	3,000	81.00/M	SML-210DTT86
		Yellow	Water Clear	585	2.1	25	6.3	20	140°	511-1290-1-ND	.30	3.71	12.49	511-1290-2-ND	3,000	81.00/M	SML-210YTT86
		Green	Water Clear	570	2.2	25	16	20	140°	511-1287-1-ND	.31	3.11	10.45	511-1287-2-ND	3,000	68.00/M	SML-210MTT86
		Green	Water Clear	560	2.2	25	4	20	140°	511-1285-1-ND	.30	3.71	12.49	511-1285-2-ND	3,000	81.00/M	SML-210FTT86
		Green	Water Clear	555	2.2	25	4	20	140°	511-1288-1-ND	.30	3.71	12.49	511-1288-2-ND	3,000	81.00/M	SML-210PTT86
		Red	Water Clear	630	1.8	10	2.5	2	140°	511-1292-1-ND	.46	5.61	16.89	511-1292-2-ND	3,000	122.00/M	SML-211UTT86
		Orange	Water Clear	611	1.8	10	2.5	2	140°	511-1291-1-ND	.46	5.61	16.89	511-1291-2-ND	3,000	122.00/M	SML-211DTT86
		Yellow	Water Clear	590	1.8	10	1.6	2	140°	511-1293-1-ND	.46	5.61	16.89	511-1293-2-ND	3,000	122.00/M	SML-211YTT86
		Red	Water Clear	639	2.05	30	63	20	140°	511-1295-1-ND	.50	7.25	21.82	511-1295-2-ND	3,000	148.00/M	SML-212VTT86
		Orange	Water Clear	611	2.05	30	63	20	140°	511-1294-1-ND	.50	7.25	21.82	511-1294-2-ND	3,000	148.00/M	SML-212DTT86
		Yellow	Water Clear	591	2.05	30	63	20	140°	511-1296-1-ND	.50	7.25	21.82	511-1296-2-ND	3,000	148.00/M	SML-212YTT86
17	0603	Bright Red	Water Clear	660	1.75	25	10	20	140°	511-1298-1-ND	.30	3.02	10.16	511-1298-2-ND	3,000	66.00/M	SML-310LTT86
		Red	Water Clear	650	2	20	4	20	140°	511-1301-1-ND	.30	3.02	10.16	511-1301-2-ND	3,000	66.00/M	SML-310VTT86
		Orange	Water Clear	610	2	20	6.3	20	140°	511-1297-1-ND	.30	3.02	10.16	511-1297-2-ND	3,000	66.00/M	SML-310DTT86
		Yellow	Water Clear	585	2.1	20	6.3	20	140°	511-1302-1-ND	.30	3.02	10.16	511-1302-2-ND	3,000	66.00/M	SML-310YTT86
		Green	Water Clear	570	2.2	20	16	20	140°	511-1299-1-ND	.23	2.70	7.84	511-1299-2-ND	3,000	54.00/M	SML-310MTT86
		Green	Water Clear	555	2.2	20	4	20	140°	511-1300-1-ND	.30	3.02	10.16	511-1300-2-ND	3,000	66.00/M	SML-310PTT86
		Blue	Water Clear	428	3.8	20	3.6	20	140°	511-1331-1-ND	1.21	16.69	54.59	511-1331-2-ND	3,000	433.00/M	SML-310BATT86
		Blue	Water Clear	468	3.5	20	14	20	140°	511-1332-1-ND	2.05	30.28	102.00	511-1332-2-ND	3,000	830.00/M	SML-311BBTT86
		Green	Water Clear	523	3.5	20	90	20	140°	511-1333-1-ND	2.05	30.28	102.00	511-1333-2-ND	3,000	830.00/M	SML-311EBTT86
		Yellow	Water Clear	590	1.8	10	1.6	2	140°	511-1305-1-ND	.37	4.49	13.51	511-1305-2-ND	3,000	98.00/M	SML-311YTT86
		Red	Water Clear	630	1.8	10	2.5	2	140°	511-1304-1-ND	.37	4.49	13.51	511-1304-2-ND	3,000	98.00/M	SML-311UTT86
		Orange	Water Clear	611	1.8	10	2.5	2	140°	511-1303-1-ND	.37	4.49	13.51	511-1303-2-ND	3,000	98.00/M	SML-311DTT86
		Green	Water Clear	525	3.8	20	200	20	140°	511-1371-1-ND	2.28	33.64	114.71	511-1371-2-ND	3,000	922.29/M	SML312ECTT86
		Blue	Water Clear	468	3.5	20	63	20	140°	511-1372-1-ND	2.28	33.64	114.71	511-1372-2-ND	3,000	922.29/M	SML312BCTT86
18	0603	Green	White Diffused	570	2.2	25	16	20	150°	511-1306-1-ND	.30	3.02	10.16	511-1306-2-ND	5,000	66.00/M	SML-410MWT86
		Green	Diffused	570	2.1	25	40	20	150°	511-1307-1-ND	.41	5.00	15.07	511-1307-2-ND	5,000	102.00/M	SML-412MWT86
19	0603	Green	Milky White	570	2.2	20	16	20	140°	511-1308-1-ND	.22	2.60	7.55	511-1308-2-ND	3,000	52.00/M	SML-510MWT86
		Red	Water Clear	630	1.9	25	40	20	140°	511-1310-1-ND	.41	5.00	15.07	511-1310-2-ND	3,000	109.00/M	SML-511UWT86
		Orange	Water Clear	611	1.9	25	40	20	140°	511-1309-1-ND	.41	5.00	15.07	511-1309-2-ND	3,000	109.00/M	SML-511DWT86
		Yellow	Water Clear	590	1.9	25	40	20	140°	511-1311-1-ND	.41	5.00	15.07	511-1311-2-ND	3,000	109.00/M	SML-511WWT86
		Green	White Diffused	570	2.1	25	40	20	140°	511-1313-1-ND	.50	7.25	21.82	511-1313-2-ND	3,000	148.00/M	SML-512MWT86
		Red	Water Clear	630	2	30	63	20	140°	511-1314-1-ND	.50	7.25	21.82	511-1314-2-ND	3,000	148.00/M	SML-512UWT86
		Orange	Water Clear	611	2	30	63	20	140°	511-1312-1-ND	.50	7.25	21.82	511-1312-2-ND	3,000	148.00/M	SML-512DWT86
		Yellow	Water Clear	590	2	30	63	20	140°	511-1315-1-ND	.50	6.12	18.44	511-1315-2-ND	3,000	133.00/M	SML-512WWT86
20	1206	Green	Water Clear	525	3.8	20	360	20	110°	511-1373-1-ND	2.40	35.41	120.75	511-1373-2-ND	2,500	970.84/M	SML012ECTT86
21	1.3 x 1.5mm	Red/Grn	Milky White	630/570	1.9/2.2	20/25	40/16	20	150°	511-1317-1-ND	.95	11.69	38.01	511-1317-2-ND	4,000	271.00/M	SML-521MUWT86
		Orange/Grn	Milky White	611/570	1.9/2.2	20/25	40/16	20	150°	511-1316-1-ND	.95	11.69	38.01	511-1316-2-ND	4,000	271.00/M	SML-521MDWT86
		Yellow/Grn	Milky White	590/570	1.9/2.2	20/25	40/16	20	150°	511-1318-1-ND	.95	11.69	38.01	511-1318-2-ND	4,000	271.00/M	SML-521MYWT86
22	3.4 x 1.25mm Reverse Mount	Green	Water Clear	570	2.2	25	16	20	140°	511-1319-1-ND	.50	6.12	18.44	511-1319-2-ND	3,000	133.00/M	SML-810MTT86
		Red	Water Clear	630	1.95	25	22.4	10	140°	511-1321-1-ND	.50	7.25	21.82	511-1321-2-ND	3,000	148.00/M	SML-811UTT86
		Orange	Water Clear	611	1.95	25	22.4	10	140°	511-1320-1-ND	.50	7.25	21.82	511-1320-2-ND	3,000	148.00/M	SML-811DTT86
		Yellow	Water Clear	590	1.95	25	18	10	140°	511-1322-1-ND	.50	7.25	21.82	511-1322-2-ND	3,000	148.00/M	SML-811WTT86
		Green	Clear	570	2.1	25	40	20	140°	511-1323-1-ND	.69	8.42	27.39	511-1323-2-ND	3,000	204.00/M	SML-812MTT86
23	1.6 x 1.15	Orange	Water Clear	611	1.9	25	63	20	130°	511-1324-1-ND	.54	6.64	20.00	511-1324-2-ND	3,000	135.00/M	SML-A12DTT86
		Red	Water Clear	630	1.9	25	63	20	130°	511-1326-1-ND	.54	6.64	20.00	511-1326-2-ND	3,000	135.00/M	SML-A12UTT86
		Yellow	Water Clear	590	1.9	25	63	20	130°	511-1327-1-ND	.54	6.64	20.00	511-1327-2-ND	3,000	135.00/M	SML-A12WTT86
		Green	Water Clear	570	2.1	25	40	20	130°	511-1325-1-ND	.54	6.64	20.00	511-1325-2-ND	3,000	135.00/M	SML-A12MTT86

‡ Bulk §Tape and Box

High Brightness LEDs

Fig. 1

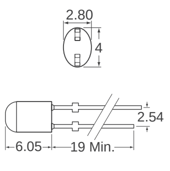

Fig. 2

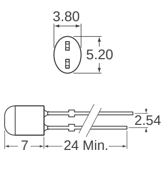

Fig. 3

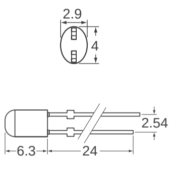

Fig. 4

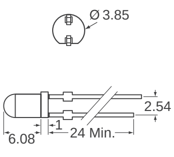

Fig. 5

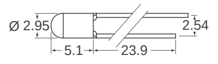

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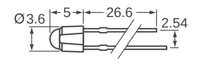

Fig. 7

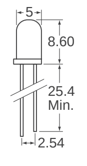

Fig. 8

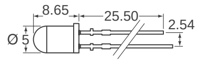

Fig. 9

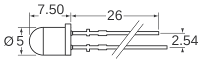

Fig. 10

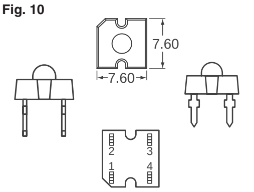

Fig. 11

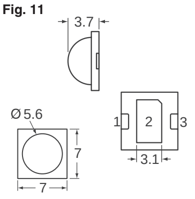

Fig. 12

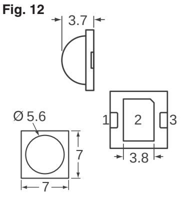

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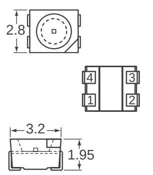

Fig. 14

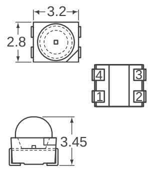

Fig. 15

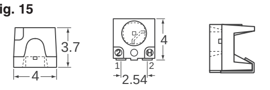

Fig. 16

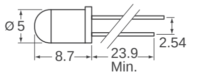

Fig. 17

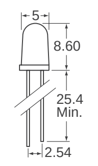

Fig. 18

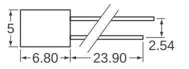

Fig. 19

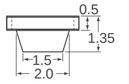

Fig. 20

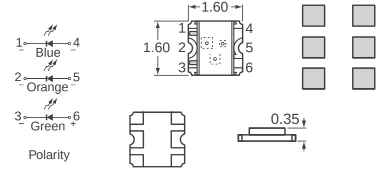

Fig. 21

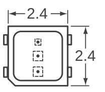

Fig. 22

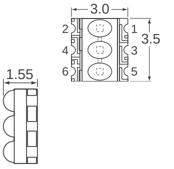

Fig. 23

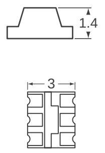

Fig. 24

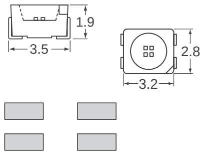

Fig. 25

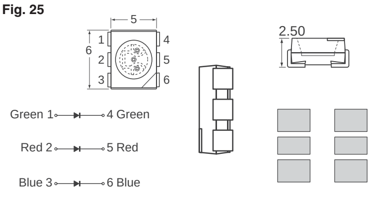

Fig. 26

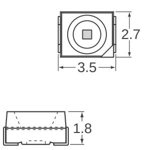

Fig. 27

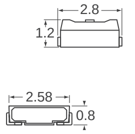

Fig. 28

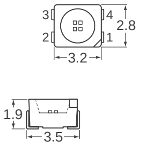

Fig.	Size (mm)	Chip			Lens Color	Luminous Intensity (Typ.)		Viewing Angle	Digi-Key Part No.	Price Each			Digi-Key Part No.	Tape and Reel		TT Electronics Part No.
		Material	Emitted Color	Dominant Wavelength (nm)		(mcd)	@IF(mA)			1	25	100		Size	Pricing	
Oval — Multiple Viewing Angles																
1	3	InGaN	Blue	470	Blue Diffused	300	20	100°/60°	365-1198-ND	1.29	.76	.72	—	—	—	OVLKBGT6
	3	InGaN	Green	525	Green Diffused	1100	20	100°/60°	365-1199-ND	1.29	.76	.72	—	—	—	OVLKGGT6
	3	AlInGaP	Red-Orange	616	Orange Diffused	430	20	100°/60°	365-1200-ND	.57	.34	.32	—	—	—	OVLKQGT6
2	5	InGaN	Blue	470	Blue Diffused	500	20	110°/50°	365-1191-ND	1.08	.63	.60	—	—	—	OVLHBKD8
	5	InGaN	Green	525	Green Diffused	1100	20	110°/50°	365-1192-ND	1.26	.74	.70	—	—	—	OVLHGKD8
	5	AlInGaP	Orange	618	Orange Diffused	800	20	110°/50°	365-1193-ND	.63	.37	.35	—	—	—	OVLHQKD8
	5	AlInGaP	Red	624	Red Diffused	950	20	110°/50°	365-1194-ND	.39	.23	.22	—	—	—	OVLHRKD8
3	4	InGaN	Blue	470	Blue Diffused	300	20	100°/50°	365-1195-ND	.78	.46	.44	—	—	—	OVLJBGD8
	4	InGaN	Green	525	Green Diffused	1200	20	100°/50°	365-1196-ND	1.08	.63	.60	—	—	—	OVLJGGD8
	4	AlInGaP	Red	624	Red Diffused	400	20	100°/50°	365-1197-ND	.30	.18	.17	—	—	—	OVLJRGD8
Round — Wide Viewing Angles																
4	3	InGaN	Blue	470	White Diffused	600	20	65°	365-1169-ND	1.08	.63	.60	—	—	—	OVLAB6CB8
	3	InGaN	Green	527	White Diffused	2000	20	65°	365-1170-ND	1.26	.74	.70	—	—	—	OVLAG6CB8
	3	AlInGaP	Red	628	Water Clear	1100	20	65°	365-1171-ND	.51	.30	.29	—	—	—	OVLAS6CB8
5	3	InGaN	Blue	470	Water Clear	900	20	45°	365-1173-ND	.75	.44	.42	—	—	—	OVLBB4C7
	3	InGaN	Green	525	Water Clear	2000	20	45°	365-1174-ND	1.20	.70	.67	—	—	—	OVLBG4C7
	3	AlInGaP	Yellow	589	Water Clear	2400	20	45°	365-1176-ND	.45	.27	.25	—	—	—	OVLBY4C7
	3	AlInGaP	Red	623	Water Clear	1800	20	45°	365-1175-ND	.45	.27	.25	—	—	—	OVLBR4C7
Round — High Intensity																
6	3	InGaN	White	—	Water Clear	1000	20	45°	365-1172-ND	1.50	.88	.83	—	—	—	OVLAW4CB6
7	5	InGaN	White	—	Water Clear	9000	20	15°	365-1177-ND	1.20	.70	.67	—	—	—	OVLEW1CB9
8	5	InGaN	White	—	Water Clear	2100	20	30°	365-1178-ND	1.50	.88	.83	—	—	—	OVLEW3CB6
9	5	InGaN	White	—	Water Clear	1600	20	50°	365-1179-ND	1.50	.88	.83	—	—	—	OVLEW5CB6
Super Flux 4-Pin																
10	7.6	InGaN	Blue	470	Water Clear	850	30	60°	365-1164-ND	.87	.51	.49	—	—	—	OVFSB6C8
	7.6	InGaN	Green	527	Water Clear	2500	30	60°	365-1165-ND	1.17	.69	.65	—	—	—	OVFSG6C8
	7.6	AlInGaP	Amber	591	Water Clear	5000	70	100°	365-1163-ND	.57	.34	.32	—	—	—	OVFSAAC8

(Continued)

Fig.	Size (mm)	Chip Material	Chip Emitted Color	Chip Dominant Wavelength (nm)	Lens Color	Luminous Intensity (Typ.) (mcd)	@IF(mA)	Viewing Angle	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	TT Electronics Part No.
10	7.6	AlInGaP	Red/Orange	618	Water Clear	4500	70	40°	365-1166-ND	.63	.37	.35	—	—	—	OVFSQ4C8
	7.6	AlInGaP	Red	624	Water Clear	4500	70	100°	365-1167-ND	.51	.30	.29	—	—	—	OVFSRAC8
	7.6	InGaN	White	—	Water Clear	1200	30	60°	365-1168-ND	1.29	.76	.72	—	—	—	OVFSW6C8
Square — Power Surface Mount																
11	7	AlInGaP	Amber	594	Water Clear	450	35	105°	365-1216-1-ND	6.48	4.32	3.78	365-1216-2-ND	1,400	3024.00/M	OVSPAAC5R8
	7	AlInGaP	Red	624	Water Clear	450	32	105°	365-1219-1-ND	6.48	4.32	3.78	365-1219-2-ND	1,400	3024.00/M	OVSPRAC5R8
	7	InGaN	White	—	Water Clear	350	23	70°	365-1220-1-ND	10.20	6.80	5.95	365-1220-2-ND	1,400	4760.00/M	OVSPW7CR8
12	7	InGaN	Blue	470	Water Clear	300	11	140°	365-1217-1-ND	7.89	5.26	4.61	365-1217-2-ND	1,400	3682.00/M	OVSPBCCR8
	7	InGaN	Green	527	Water Clear	300	40	140°	365-1218-1-ND	11.58	7.72	6.76	365-1218-2-ND	1,400	5404.00/M	OVSPGCCR8
Top View Surface Mount — Package: PLCC4																
13	—	InGaN	Blue	470	Water Clear	200	30	120°	365-1208-1-ND	.96	.64	.56	365-1208-2-ND	2,000	448.00/M	OVSABBC2R8
	—	InGaN	Blue-Green	505	Water Clear	560	30	120°	365-1209-1-ND	1.26	.84	.74	365-1209-2-ND	2,000	588.00/M	OVSACBC2R8
	—	InGaN	Green	527	Water Clear	700	30	120°	365-1210-1-ND	1.26	.84	.74	365-1210-2-ND	2,000	588.00/M	OVSAGBC2R8
	—	AlInGaP	Amber	591	Water Clear	700	50	120°	365-1206-1-ND	.75	.50	.44	365-1206-2-ND	2,000	350.00/M	OVSAABC2R8
	—	AlInGaP	Red	628	Water Clear	900	50	120°	365-1213-1-ND	.72	.48	.42	365-1213-2-ND	2,000	336.00/M	OVSASBC2R8
Top View Surface Mount with Domed Lens — Package: PLCC4																
14	—	AlInGaP	Amber	591	Water Clear	1650	50	60°	365-1207-1-ND	.75	.50	.44	365-1207-2-ND	700	245.00	OVSAABLCR8
	—	AlInGaP	Red-Orange	618	Water Clear	2800	50	60°	365-1211-1-ND	.75	.50	.44	365-1211-2-ND	700	245.00	OVSAQBLCR8
	—	AlInGaP	Red	628	Water Clear	900	50	60°	365-1214-1-ND	.75	.50	.44	365-1214-2-ND	700	245.00	OVSASBLCR8
Side Emitting Surface Mount — Package: RA PLCC																
15	—	InGaN	Blue	470	Water Clear	120	20	120°	365-1223-1-ND	1.17	.78	.69	365-1223-2-ND	500	273.00	OVSR9BBCR8
	—	InGaN	Blue-Green	505	Water Clear	400	20	120°	365-1224-1-ND	1.26	.84	.74	365-1224-2-ND	500	294.00	OVSR9CBCR8
	—	InGaN	Green	527	Water Clear	560	20	120°	365-1225-1-ND	1.35	.90	.79	365-1225-2-ND	500	315.00	OVSR9GBCR8
	—	AlInGaP	Amber	591	Water Clear	350	20	120°	365-1222-1-ND	.75	.50	.44	365-1222-2-ND	500	175.00	OVSR9ABCR8
	—	AlInGaP	Red	628	Water Clear	400	20	120°	365-1226-1-ND	.75	.50	.44	365-1226-2-ND	500	175.00	OVSR9RBCR8
Round — High Brightness																
16	5	InGaN	Blue	470	Water Clear	1350	20	30°	365-1180-ND	.75	.44	.42	—	—	—	OVLFB3C7
	5	InGaN	Green	525	Water Clear	5200	20	30°	365-1181-ND	1.20	.70	.67	—	—	—	OVLFG3C7
	5	AlInGaP	Yellow	589	Water Clear	5700	20	30°	365-1183-ND	.45	.27	.25	—	—	—	OVLFY3C7
	5	AlInGaP	Red	623	Water Clear	5000	20	30°	365-1182-ND	.45	.27	.25	—	—	—	OVLFR3C7
Round — High Intensity																
17	5	InGaN	Blue	470	Water Clear	3200	20	6°	365-1184-ND	.99	.58	.55	—	—	—	OVLGB0C6B9
	5	InGaN	Blue-Green	505	Water Clear	8000	20	6°	365-1185-ND	.63	.37	.35	—	—	—	OVLGC0C6B9
	5	InGaN	Green	525	Water Clear	5000	20	6°	365-1186-ND	1.05	.62	.59	—	—	—	OVLGG0C5B9
	5	AlInGaP	Yellow-Green	573	Water Clear	2300	20	6°	365-1187-ND	.18	.11	.10	—	—	—	OVLGJ0C3B9
	5	AlInGaP	Yellow	589	Water Clear	20000	20	6°	365-1190-ND	.42	.25	.24	—	—	—	OVLGY0C9B9
	5	AlInGaP	Orange	615	Water Clear	16000	20	6°	365-1188-ND	.42	.25	.24	—	—	—	OVLGO0C8B9
	5	AlInGaP	Red	631	Water Clear	10000	20	6°	365-1189-ND	.42	.25	.24	—	—	—	OVLGS0C8B9
Cylindrical — High Intensity																
18	5	InGaN	Blue	470	Water Clear	300	20	85°	365-1201-ND	.75	.44	.42	—	—	—	OVLLB8C7
	5	InGaN	Green	525	Water Clear	670	20	85°	365-1202-ND	1.20	.70	.67	—	—	—	OVLLG8C7
	5	AlInGaP	Yellow	589	Water Clear	650	20	85°	365-1204-ND	.45	.27	.25	—	—	—	OVLLY8C7
	5	AlInGaP	Red	623	Water Clear	570	20	85°	365-1203-ND	.45	.27	.25	—	—	—	OVLLR8C7

Full Color (RGB) Surface Mount

Fig.	Lens Color	IV (mcd) @IF(mA)	Typical Red	Typical Green	Typical Blue	Viewing Angle	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	TT Electronics Part No.
19	Water Clear	20	72	180	45	120°	365-1227-1-ND	1.59	1.06	.93	365-1227-2-ND	2,000	742.00/M	OVSRRGBBC9
Top-View Chip														
20	Water Clear	20	100	180	50	120°	365-1229-1-ND	1.02	.68	.60	365-1229-2-ND	2,000	476.00/M	OVSTKGBBCR9
21	Water Clear	20	100	300	80	110°	365-1230-1-ND	3.03	2.02	1.77	365-1230-2-ND	3,000	1414.00/M	OVSTRGBAC6
22	Water Clear	20	152	550	180	Multiple	365-1233-1-ND	3.63	2.42	2.12	365-1233-2-ND	1,000	1694.00	OVSTRGBLC6
23	Water Clear	20	53	165	46	Multiple	365-1232-1-ND	3.63	2.42	2.12	365-1232-2-ND	1,000	1694.00	OVSTRGBFC6
PLCC4														
24	Water Clear	20	300	450	110	120°	365-1212-1-ND	2.22	1.48	1.30	365-1212-2-ND	2,000	1036.00/M	OVSARGB3R8
PLCC6														
25	Water Clear	50	1000	900	280	120°	365-1231-1-ND	4.20	2.80	2.45	365-1231-2-ND	900	1764.00	OVSTRGBBCR8

White InGaN Surface Mount

Fig.	Package	Chip Material	Chip Emitted Color	Lens Color	Luminous Intensity (Typ.) (mcd)	@IF(mA)	Viewing Angle	Digi-Key Part No.	Price Each 1	25	100	Digi-Key Part No.	Tape and Reel Size	Tape and Reel Pricing	TT Electronics Part No.
26	PLCC2	InGaN	White	Water Clear	450	20	120°	365-1205-1-ND	.63	.42	.37	365-1205-2-ND	2,000	294.00/M	OVS9WBCR9
27	RA	GaN	White	Water Clear	1000	20	120°/110°	365-1228-1-ND	1.47	.98	.86	365-1228-2-ND	3,000	686.00/M	OVSRWACR6
28	PLCC4	InGaN	White	Water Clear	1900	20	120°	365-1215-1-ND	3.75	2.50	2.19	365-1215-2-ND	2,000	1750.00/M	OVSAWBCR9

Dim. in mm

Fig. 1

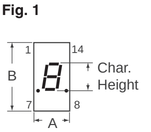

Fig. 2

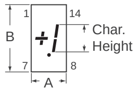

Fig. 3

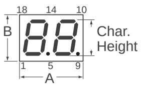

Fig. 4

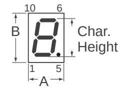

Fig. 5

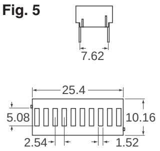

Fig. 6

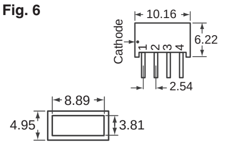

Fig. 7

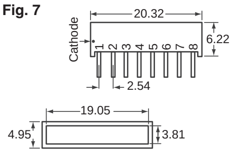

Fig. 8

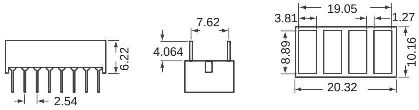

Fig. 9

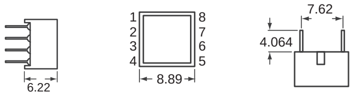

Fig. 10

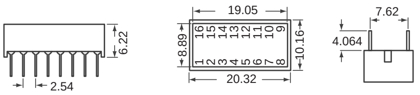

LED 7-Segment Displays *(All 7-Segment displays have a right hand decimal point unless noted otherwise.)*

Fig.	Color	Char. Height (mm)	A Width (mm)	B Height (mm)	Forward Voltage (V)	Forward Current (mA)	Luminous Intensity µcd	@ mA	Digi-Key Part No. Common Anode	Price Each 1	Price Each 10	Price Each 100	Mfg. Part No.	Digi-Key Part No. Common Cathode	Price Each 1	Price Each 10	Price Each 100	Avago Part No.
1	HE Red	7.62	10.16	19.05	2.1	30	800	5	516-1186-5-ND†	3.54	2.44	1.99	5082-7610	—	—	—	—	—
	HE Red	7.62	10.16	19.05	2.1	30	800	5	516-1187-5-ND	3.54	2.44	1.99	5082-7611	516-1188-5-ND	3.54	2.44	1.99	5082-7613
	Green	7.62	10.16	19.05	2.1	30	2,700	10	516-1189-5-ND	3.54	2.44	1.99	HDSP-3601	516-1190-5-ND	3.54	2.44	1.99	HDSP-3603
	HE Red	10.92	12.70	19.05	2.1	30	1,115	5	516-1191-5-ND†	3.54	2.44	1.99	5082-7650	—	—	—	—	—
	HE Red	10.92	12.70	19.05	2.1	30	1,115	5	516-1192-5-ND	3.54	2.44	1.99	5082-7651	516-1193-5-ND	3.54	2.44	1.99	5082-7653
	Green	10.92	12.70	19.05	2.1	30	4,000	10	516-1194-5-ND	3.54	2.44	1.99	HDSP-4601	516-1195-5-ND	3.54	2.44	1.99	HDSP-4603
	HE Red	10.16	9.79	12.90	2.0	30	1,200	5	516-1198-5-ND	3.30	2.20	1.80	HDSP-F201	516-1199-5-ND	3.30	2.20	1.80	HDSP-F203
	Green	10.16	9.79	12.90	2.1	30	3,500	10	516-1200-5-ND	3.30	2.20	1.80	HDSP-F501	516-1201-5-ND	3.30	2.20	1.80	HDSP-F503
	HE Red	7.62	7.62	12.70	2.0	30	5,390	20	516-1202-5-ND	3.30	2.20	1.80	HDSP-7501	516-1203-5-ND	3.30	2.20	1.80	HDSP-7503
	Green	7.62	7.62	12.70	2.1	30	6,800	20	516-1204-5-ND	3.30	2.20	1.80	HDSP-7801	516-1205-5-ND	3.30	2.20	1.80	HDSP-7803
	Red	7.62	7.62	12.70	1.7	15	3,600	5	516-1220-5-ND	3.83	2.64	2.16	HDSP-A101	516-1221-5-ND	3.83	2.64	2.16	HDSP-A103
	HE Red	7.62	7.62	12.70	1.7	15	1,050	5	516-1222-5-ND	3.65	2.52	2.06	HDSP-7511	516-1223-5-ND	3.65	2.52	2.06	HDSP-7513
	Red	10.16	9.79	12.90	1.7	15	3,900	5	516-1224-5-ND	3.83	2.64	2.16	HDSP-F101	516-1225-5-ND	3.83	2.64	2.16	HDSP-F103
	Red	10.92	12.70	19.05	1.7	15	3,900	5	516-1226-5-ND	4.23	2.92	2.38	HDSP-E101	516-1227-5-ND	4.23	2.92	2.38	HDSP-E103
	HE Red	20.32	19.96	27.69	2.6	40	4,800	20	516-1232-5-ND	4.87	3.40	2.79	HDSP-3901	516-1233-5-ND	4.87	3.40	2.79	HDSP-3903
	Green	20.32	19.96	27.69	2.1	30	1,500	10	516-1234-5-ND	4.87	3.40	2.79	HDSP-8601	516-1235-5-ND	4.87	3.40	2.79	HDSP-8603
2	HE Red	7.11	10.16	19.05	2.1	30	800	5	516-1196-5-ND	3.54	2.44	1.99	5082-7616	—	—	—	—	—
	HE Red	10.92	12.70	19.05	2.1	30	1,115	5	516-1197-5-ND	3.54	2.44	1.99	5082-7656	—	—	—	—	—
3	HE Red	14.22	25.00	18.60	2.05	25	4,000	10	516-1206-5-ND	1.63	1.02	.77	HDSP-521E	516-1207-5-ND	1.63	1.02	.77	HDSP-523E
	Green	14.22	25.00	18.60	2.0	30	3,500	10	516-1208-5-ND	1.63	1.02	.77	HDSP-521G	516-1209-5-ND	1.63	1.02	.77	HDSP-523G
	HE Red	14.22	25.15	17.02	2.1	30	2,800	10	516-1216-5-ND	4.20	2.93	2.40	HDSP-5521	516-1217-5-ND	4.20	2.93	2.40	HDSP-5523
	Green	14.22	25.15	17.02	2.1	30	2,500	10	516-1218-5-ND	4.20	2.93	2.40	HDSP-5621	516-1219-5-ND	4.20	2.93	2.40	HDSP-5623
4	Red	14.22	12.57	17.02	1.8	40	16,000	20	516-1210-5-ND	3.63	2.50	2.04	HDSP-H151	516-1211-5-ND	3.63	2.50	2.04	HDSP-H153
	HE Red	14.22	12.57	17.02	2.1	30	2,800	10	516-1212-5-ND	3.00	2.00	1.63	HDSP-5501	516-1213-5-ND	3.00	2.00	1.63	HDSP-5503
	Green	14.22	12.57	17.02	2.1	30	2,500	10	516-1214-5-ND	3.00	2.00	1.63	HDSP-5601	516-1215-5-ND	3.00	2.00	1.63	HDSP-5603
	Red	14.22	12.57	17.02	1.7	15	4,200	5	516-1228-5-ND	3.48	2.40	1.96	HDSP-H101	516-1229-5-ND	3.48	2.40	1.96	HDSP-H103
	HE Red	14.22	12.57	17.02	1.7	15	1,200	5	516-1230-5-ND	3.45	2.30	1.88	HDSP-5551	516-1231-5-ND	3.45	2.30	1.88	HDSP-5553

† Left Hand Decimal

Light Bar Graph

Fig.	LED Color	No. of Elements	Forward Voltage (V)	Forward Current (mA)	Luminous Intensity mcd	@ mA	Digi-Key Part No.	Price Each 1	Price Each 10	Price Each 100	Avago Part No.
5	HE Red/ Yellow/Green	10	2.1/2.2/2.1	30/20/30	3.5 1.9 1.9	10 10 10	516-1236-5-ND	6.53	4.83	4.00	HDSP-4832
	HE Red/ Yellow/Green	10	2.1/2.2/2.1	30/20/30	3.5 1.9 1.9	10 10 10	516-1237-5-ND	6.53	4.83	4.00	HDSP-4836
	HE Red	10	2.1	30	3.5	10	516-1238-5-ND	5.20	3.80	3.10	HDSP-4830
	Red		1.6	15	1	1	516-1239-5-ND	6.19	4.53	3.69	HLCP-J100
	Yellow		2.2	20	1.9	10	516-1240-5-ND	6.19	4.53	3.69	HDSP-4840
	Green		2.1	30	1.9	10	516-1241-5-ND	6.19	4.53	3.69	HDSP-4850
6	Red	1	1.8	15	7.5	3	516-1242-5-ND	2.14	1.39	1.09	HLCP-A100
	HE Red		2.0	30	23	20	516-1243-5-ND	1.75	1.13	.87	HLMP-2300
	Yellow		2.1	25	20	20	516-1244-5-ND	1.75	1.13	.87	HLMP-2400
	Green		2.2	30	25	20	516-1245-5-ND	1.75	1.13	.87	HLMP-2500
7	HE Red	1	2.0	30	45	20	516-1246-5-ND	2.64	1.79	1.45	HLMP-2350
	Yellow		2.1	25	38	20	516-1247-5-ND	2.64	1.79	1.45	HLMP-2450
	Green		2.2	30	50	20	516-1248-5-ND	2.64	1.79	1.45	HLMP-2550
8	Red	4	1.8	15	7.5	3	516-1249-5-ND	4.18	2.88	2.35	HLCP-E100
	HE Red		2.0	30	23	20	516-1250-5-ND	3.63	2.50	2.04	HLMP-2620
	Yellow		2.1	25	20	20	516-1251-5-ND	3.63	2.50	2.04	HLMP-2720
	Green		2.2	30	25	20	516-1252-5-ND	3.63	2.50	2.04	HLMP-2820
9	HE Red	1	2.0	30	45	20	516-1253-5-ND	2.44	1.65	1.28	HLMP-2655
	Yellow		2.1	25	38	20	516-1254-5-ND	2.44	1.65	1.28	HLMP-2755
	Green		2.2	30	50	20	516-1255-5-ND	2.44	1.65	1.28	HLMP-2855
	HE Red/ Green	1	2.0/2.2	30	45 50	20 20	516-1259-5-ND	5.35	3.87	3.17	HLMP-2965
10	HE Red	1	2.0	30	80	20	516-1256-5-ND	3.63	2.50	2.04	HLMP-2685
	Yellow		2.1	25	70	20	516-1257-5-ND	3.63	2.50	2.04	HLMP-2785
	Green		2.2	30	100	20	516-1258-5-ND	3.63	2.50	2.04	HLMP-2885

Dim. in mm

Fig. 1

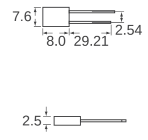

Fig. 2

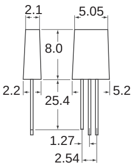

Fig. 3

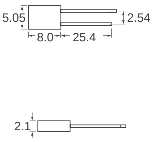

Fig. 4

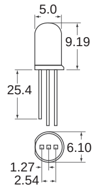

Fig. 5

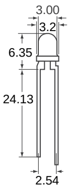

Fig. 6

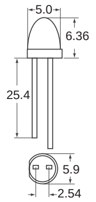

Fig. 7

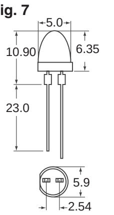

Fig. 8

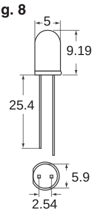

Fig. 9

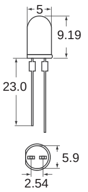

Fig. 10

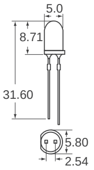

Fig. 11

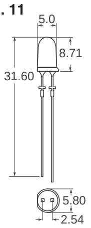

Fig. 12

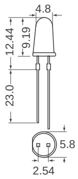

Fig. 13

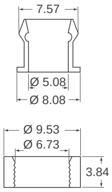

Fig. 14

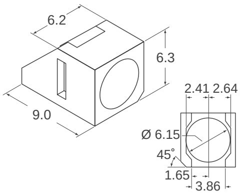

Fig. 15

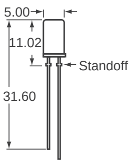

Fig. 16

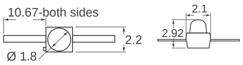

Fig. 17

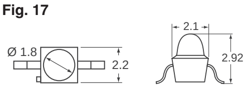

Fig. 18

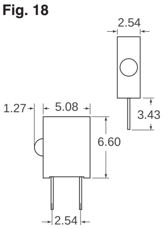

Fig. 19

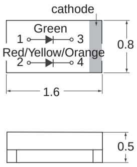

Fig. 20

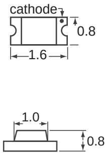

Fig. 21

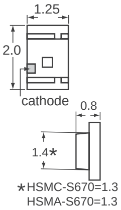

*HSMC-S670=1.3
HSMA-S670=1.3

Fig. 22

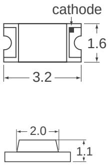

Fig. 23

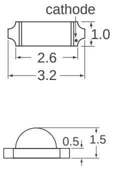

Fig. 24

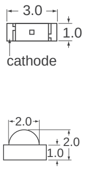

Fig. 25

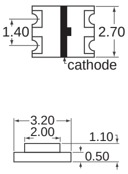

Fig. 26

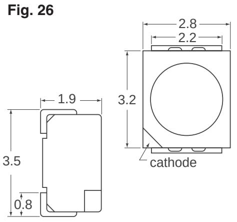

Fig. 27

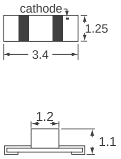

Fig. 28

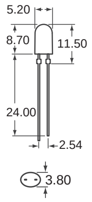

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Pricing 1	10	100	Avago Part No.
1	Rect. 2.5mm x 7.6mm	HE Red	Diffused	635nm	1.9V	30mA	2.1 min.	20mA	100°	516-1277-ND	.90	5.20	38.00	HLMP-0301
		Yellow	Diffused	583nm	2.1V	20mA	3.6 min.	20mA	100°	516-1278-ND	.90	5.20	38.00	HLMP-0401
		Green	Diffused	565nm	2.2V	30mA	2.6 min.	20mA	100°	516-1279-ND	.90	5.20	38.00	HLMP-0504
2	Rect. 2.0mm x 5.0mm	HE Red/Green	White/Diffused	635/568nm	1.9V/2.2V	30mA	2.1/2.6	20mA	100°	516-1280-ND	.95	5.72	41.80	HLMP-0800
3	Rect. 2.0mm x 5.0mm	Red	Diffused	645nm	1.8V	30mA	7.5	20mA	110°	516-1281-ND	.51	3.00	20.00	HLMP-S100
		HE Red	Diffused	635nm	1.9V	30mA	7.5	20mA	110°	516-1282-ND	.36	2.04	13.20	HLMP-S201
		HE Red	Diffused	635nm	1.9V	30mA	3.5	20mA	110°	516-1283-ND	.35	2.04	13.20	HLMP-S201-D0000
		Yellow	Diffused	583nm	2.1V	20mA	4	20mA	110°	516-1284-ND	.36	2.04	13.20	HLMP-S301
		Green	Diffused	565nm	2.2V	30mA	8	20mA	110°	516-1285-ND	.36	2.04	13.20	HLMP-S501
		Green	Diffused	565nm	2.2V	30mA	4	20mA	110°	516-1286-ND	.36	2.04	13.20	HLMP-S501-C0000
4	5mm	HE Red/Green	White/Diffused	635/568nm	1.9V/2.2V	30mA	2.1/4.2	10mA	65°	516-1287-ND	.72	4.20	29.25	HLMP-4000
5	3mm	HE Red	Diffused	635nm	1.9V	30mA	5.5	10mA	60°	516-1291-ND	.36	2.04	13.20	HLMP-1301
		Yellow	Diffused	583nm	2.0V	20mA	6	10mA	60°	516-1292-ND	.36	2.04	13.20	HLMP-1401
		Green	Diffused	565nm	2.1V	30mA	5	10mA	60°	516-1293-ND	.36	2.04	13.20	HLMP-1503
		HE Red	Tint	635nm	1.9V	30mA	30	10mA	45°	516-1294-ND	.36	2.04	13.20	HLMP-1321
		Yellow	Microtint	583nm	2.0V	20mA	15	10mA	45°	516-1295-ND	.51	3.00	20.00	HLMP-1420
		Yellow	Tint	583nm	2.0V	20mA	15	10mA	45°	516-1296-ND	.36	2.04	13.20	HLMP-1421
		Green	Microtint	565nm	2.1V	30mA	22	10mA	45°	516-1297-ND	.51	3.00	20.00	HLMP-1520
		Green	Tint	565nm	2.1V	30mA	22	10mA	45°	516-1298-ND	.36	2.04	13.20	HLMP-1521
		HE Red	Water Clear	635nm	1.9V	30mA	55	20mA	45°	516-1299-ND	.45	2.56	16.80	HLMP-1340
		Yellow	Water Clear	583nm	2.1V	20mA	45	20mA	45°	516-1300-ND	.45	2.56	16.80	HLMP-1440
		Green	Water Clear	565nm	2.2V	30mA	45	20mA	45°	516-1301-ND	.45	2.56	16.80	HLMP-1540
		HE Red	Diffused	635nm	5.0V	20mA	8	10mA	60°	516-1302-ND	.72	4.20	29.25	HLMP-1600
		HE Red	Diffused	635nm	12.0V	20mA	8	13mA	60°	516-1303-ND	.72	4.20	29.25	HLMP-1601
		Yellow	Diffused	583nm	5.0V	20mA	8	10mA	60°	516-1304-ND	.72	4.20	29.25	HLMP-1620
		Yellow	Diffused	583nm	12.0V	20mA	8	13mA	60°	516-1305-ND	.76	4.48	31.20	HLMP-1621
		Green	Diffused	565nm	5.0V	20mA	8	10mA	60°	516-1306-ND	.72	4.20	29.25	HLMP-1640
		Green	Diffused	565nm	12.0V	20mA	8	13mA	60°	516-1307-ND	.72	4.20	29.25	HLMP-1641
		HE Red	Diffused	635nm	1.7V	7mA	2.1	2mA	50°	516-1308-ND	.51	3.00	20.00	HLMP-1700
		Yellow	Diffused	583nm	1.8V	7mA	2.1	2mA	50°	516-1309-ND	.51	3.00	20.00	HLMP-1719
		Green	Diffused	565nm	1.9V	7mA	2.3	2mA	50°	516-1310-ND	.51	3.00	20.00	HLMP-1790
		Red	Diffused	645nm	1.6V	30mA	2	1mA	60°	516-1311-ND	.51	3.00	20.00	HLMP-K150
		Red	Water Clear	645nm	1.6V	30mA	3	1mA	45°	516-1312-ND	.60	3.48	24.00	HLMP-K155
		Red	Diffused	645nm	1.8V	30mA	45	20mA	60°	516-1313-ND	.51	3.00	20.00	HLMP-K101
		Red	Water Clear	645nm	1.8V	30mA	65	20mA	45°	516-1314-ND	.45	2.56	16.80	HLMP-K105
6	5mm	HE Red	Diffused	635nm	1.9V	10mA	7	10mA	50°	516-1315-ND	.60	3.48	24.00	HLMP-3351
		HE Red	Tint	635nm	1.9V	10mA	18	10mA	45°	516-1316-ND	.60	3.48	24.00	HLMP-3366
		Yellow	Diffused	583nm	2.0V	10mA	10	10mA	50°	516-1317-ND	.60	3.48	24.00	HLMP-3451
		Green	Diffused	565nm	2.1V	10mA	10	10mA	50°	516-1318-ND	.60	3.48	24.00	HLMP-3554
		Green	Tint	565nm	2.1V	10mA	15	10mA	40°	516-1319-ND	.60	3.48	24.00	HLMP-3568
7	5mm	HE Red	Water Clear	635nm	1.9V	30mA	55	20mA	32°	516-1320-ND	.60	3.48	24.00	HLMP-3390
		Yellow	Water Clear	583nm	2.1V	20mA	55	20mA	32°	516-1321-ND	.60	3.48	24.00	HLMP-3490
		Green	Water Clear	565nm	2.2V	30mA	55	20mA	32°	516-1322-ND	.60	3.48	24.00	HLMP-3590
8	5mm	Red	Diffused	645nm	1.6V	30mA	3	1mA	65°	516-1323-ND	.51	3.00	20.00	HLMP-D150
		Red	Diffused	645nm	1.8V	30mA	70	20mA	65°	516-1324-ND	.45	2.56	16.80	HLMP-D101
		HE Red	Diffused	635nm	1.7V	7mA	2.3	2mA	50°	516-1325-ND	.51	3.00	20.00	HLMP-4700
		Yellow	Diffused	583nm	1.8V	7mA	2.1	2mA	50°	516-1326-ND	.51	3.00	20.00	HLMP-4719
		Green	Diffused	565nm	1.9V	7mA	2.3	2mA	50°	516-1327-ND	.51	3.00	20.00	HLMP-4740
		HE Red	Diffused	635nm	1.9V	30mA	7	10mA	60°	516-1328-ND	.36	2.04	13.20	HLMP-3301
		HE Red	Diffused	635nm	1.9V	30mA	12	10mA	60°	516-1329-ND	.60	3.48	24.00	HLMP-3762
		Orange	Diffused	600nm	1.9V	30mA	5.4	10mA	60°	516-1330-ND	.36	2.04	13.20	HLMP-D401
		Yellow	Diffused	583nm	2.0V	20mA	8	10mA	60°	516-1331-ND	.36	2.04	13.20	HLMP-3401
		Yellow	Diffused	583nm	2.0V	20mA	9.2	10mA	60°	516-1332-ND	.60	3.48	24.00	HLMP-3862

(Continued)

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Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd	@ Current	Viewing Angle	Digi-Key Part No.	Pricing 1	10	100	Avago Part No.
8	5mm	Green	Diffused	565nm	2.1V	30mA	5.2	10mA	60°	516-1333-ND	.36	2.04	13.20	HLMP-3507
		Green	Diffused	565nm	2.1V	30mA	14	10mA	60°	516-1334-ND	.60	3.48	24.00	HLMP-3962
		HE Red	Tint	635nm	1.9V	30mA	60	10mA	35°	516-1335-ND	.36	2.04	13.20	HLMP-3316
		Yellow	Tint	583nm	2.0V	20mA	50	10mA	35°	516-1336-ND	.36	2.04	13.20	HLMP-3416
		Green	Tint	565nm	2.1V	30mA	70	10mA	24°	516-1337-ND	.36	2.04	13.20	HLMP-3519
9	5mm	Red	Water Clear	645nm	1.6V	30mA	10	1mA	24°	516-1338-ND	.60	3.48	24.00	HLMP-D155
		HE Red	Diffused	635nm	5.0V	20mA	8	10mA	60°	516-1339-ND	.72	4.20	29.25	HLMP-3600
		HE Red	Diffused	635nm	12.0V	20mA	8	13mA	60°	516-1340-ND	.72	4.20	29.25	HLMP-3601
		Yellow	Diffused	583nm	5.0V	20mA	8	10mA	60°	516-1341-ND	.72	4.20	29.25	HLMP-3650
		Yellow	Diffused	583nm	12.0V	20mA	8	13mA	60°	516-1342-ND	.72	4.20	29.25	HLMP-3651
		Green	Diffused	565nm	5.0V	20mA	8	10mA	60°	516-1343-ND	.72	4.20	29.25	HLMP-3680
		Red	Water Clear	645nm	1.8V	30mA	240	20mA	24°	516-1344-ND	.45	2.56	16.80	HLMP-D105
		HE Red	Water Clear	635nm	1.9V	30mA	125	20mA	24°	516-1345-ND	.60	3.48	24.00	HLMP-3750
		Yellow	Water Clear	583nm	2.1V	20mA	140	20mA	24°	516-1346-ND	.60	3.48	24.00	HLMP-3850
		Green	Water Clear	565nm	2.2V	30mA	265	20mA	24°	516-1347-ND	.60	3.48	24.00	HLMP-3950
10	5mm	Red	Tint	645nm	1.8V	30mA	600	20mA	15°	516-1348-ND	.60	3.48	24.00	HLMP-C115
		HE Red	Tint	635nm	1.9V	30mA	300	20mA	15°	516-1349-ND	.60	3.48	24.00	HLMP-C215
		HE Red	Tint	635nm	1.9V	30mA	170	20mA	25°	516-1350-ND	.60	3.48	24.00	HLMP-C223
		Orange	Tint	600nm	1.9V	30mA	300	20mA	15°	516-1351-ND	.60	3.48	24.00	HLMP-C415
		Yellow	Tint	583nm	2.1V	20mA	300	20mA	15°	516-1352-ND	.60	3.48	24.00	HLMP-C315
		Yellow	Tint	583nm	2.1V	20mA	170	20mA	25°	516-1353-ND	.60	3.48	24.00	HLMP-C323
		Green	Tint	568nm	2.2V	30mA	300	20mA	15°	516-1354-ND	.60	3.48	24.00	HLMP-C515
		Green	Tint	568nm	2.2V	30mA	170	20mA	25°	516-1355-ND	.60	3.48	24.00	HLMP-C523
		Green	Water Clear	524nm	3.8V	30mA	1,900 min.	20mA	15°	516-1356-ND	1.33	8.40	63.00	HLMP-CM15-S0000
		Green	Water Clear	524nm	3.5V	30mA	5,500 min.	20mA	15°	516-1357-ND	1.62	10.35	78.75	HLMP-CM15-W0000
		Green	Water Clear	524nm	3.5V	30mA	1,900 min.	20mA	30°	516-1358-ND	1.62	10.35	78.75	HLMP-CM30-S0000
		Green	Water Clear	524nm	3.8V	30mA	520 min.	20mA	30°	516-1359-ND	1.33	8.40	63.00	HLMP-CM30-M0000
		Blue	Water Clear	470nm	3.5V	30mA	1,500 min.	20mA	15°	516-1360-ND	1.33	8.40	63.00	HLMP-CB15-R0000
		Blue	Water Clear	470nm	3.8V	30mA	880 min.	20mA	15°	516-1361-ND	1.33	8.40	63.00	HLMP-CB15-P0000
		Blue	Water Clear	470nm	3.8V	30mA	310 min.	20mA	30°	516-1362-ND	1.33	8.40	63.00	HLMP-CB30-K0000
		Blue	Water Clear	470nm	3.8V	30mA	520 min.	20mA	30°	516-1363-ND	1.33	8.40	63.00	HLMP-CB30-M0000
		Red	Water Clear	639nm	2.0V	50mA	4,850	20mA	15°	516-1366-ND	.76	4.48	31.20	HLMP-ED16-TW000
		Red/Orange	Water Clear	623nm	2.08V	50mA	6,250	20mA	15°	516-1367-ND	.83	4.95	35.10	HLMP-EH16-UX000
		Amber	Water Clear	594nm	2.15V	50mA	8,100	20mA	15°	516-1368-ND	.80	4.76	33.15	HLMP-EL16-VY000
		Red	Water Clear	639nm	2.0V	50mA	4,850	20mA	23°	516-1369-ND	.83	4.95	35.10	HLMP-ED25-TW000
		Amber	Water Clear	594nm	2.15V	50mA	3,700	20mA	23°	516-1370-ND	.80	4.76	33.15	HLMP-EL25-SV000
		Red	Water Clear	639nm	2.0V	50mA	2,850	20mA	30°	516-1371-ND	.80	4.76	33.15	HLMP-ED31-RU000
		Red	Water Clear	639nm	2.0V	50mA	3,700	20mA	30°	516-1372-ND	.80	4.76	33.15	HLMP-ED31-SV000
		Red/Orange	Water Clear	623nm	2.08V	50mA	3,700	20mA	30°	516-1373-ND	.83	4.95	35.10	HLMP-EH31-SV000
		Amber	Water Clear	594nm	2.15V	50mA	3,700	20mA	30°	516-1374-ND	.80	4.76	33.15	HLMP-EL31-SV000
		Red	Water Clear	635nm	1.9V	50mA	16,000	20mA	6°	516-1375-ND	.60	3.48	24.00	HLMP-EG08-WZ000
		Red	Water Clear	635nm	1.9V	50mA	21,000	20mA	6°	516-1376-ND	.65	3.77	26.00	HLMP-EG08-X1000
		Red	Water Clear	635nm	1.9V	50mA	27,000	20mA	6°	516-1377-ND	.69	4.06	28.00	HLMP-EG08-Y2000
		Amber	Water Clear	592nm	2.02V	50mA	8,700	20mA	6°	516-1378-ND	.60	3.48	24.00	HLMP-EL08-VY000
		Red	Water Clear	635nm	1.9V	50mA	3,050	20mA	15°	516-1379-ND	.60	3.48	24.00	HLMP-EG15-RU000
		Red	Water Clear	635nm	1.9V	50mA	1,832.5	20mA	23°	516-1380-ND	.51	3.00	20.00	HLMP-EG24-PS000
		Red	Water Clear	635nm	1.9V	50mA	1,395	20mA	30°	516-1381-ND	.60	3.48	24.00	HLMP-EG30-NR000
		Amber	Water Clear	592nm	2.02V	50mA	840	20mA	30°	516-1382-ND	.60	3.48	24.00	HLMP-EL30-LP000
		Amber	Water Clear	592nm	2.02V	50mA	1,832.5	20mA	30°	516-1383-ND	.65	3.77	26.00	HLMP-EL30-PS000
		Red	Water Clear	635nm	1.9V	50mA	6,000	20mA	8°	516-1384-ND	.40	2.28	15.40	HLMP-C008-U0000
		Red	Water Clear	635nm	1.9V	50mA	1,000	20mA	25°	516-1385-ND	.40	2.28	15.40	HLMP-C025-P0000
		Amber	Water Clear	594nm	1.9V	50mA	3,000	20mA	8°	516-1386-ND	.40	2.28	15.40	HLMP-C208-S0000
		Red	Water Clear	650nm	1.9V	50mA	700	20mA	25°	516-1387-ND	.40	2.28	15.40	HLMP-C625-P0000
		White	Water Clear	—	3.6V	30mA	4,850	20mA	15°	516-1468-ND	1.33	8.40	63.00	HLMP-CW15-TW000
		White	Water Clear	—	3.6V	30mA	1,690	20mA	30°	516-1469-ND	1.33	8.40	63.00	HLMP-CW30-PS000
11	5mm	Red	Water Clear	639nm	2.0V	50mA	4,850	20mA	23°	516-1388-ND	.83	4.95	35.10	HLMP-ED27-TW000
		Amber	Water Clear	594nm	2.15V	50mA	4,850	20mA	23°	516-1389-ND	.80	4.76	33.15	HLMP-EL27-TW000
		Red	Water Clear	639nm	2.0V	50mA	3,700	20mA	30°	516-1390-ND	.80	4.76	33.15	HLMP-ED33-SV000
		Amber	Water Clear	594nm	2.15V	50mA	3,700	20mA	30°	516-1391-ND	.80	4.76	33.15	HLMP-EL33-SV000
		White	Water Clear	—	3.6V	30mA	1,500 min.	20mA	15°	516-1392-ND	1.48	9.60	70.00	HLMP-CW16-R0000
12	5mm	HE Red	Water Clear	650nm	1.8V	30mA	1,000	20mA	8°	516-1393-ND	.60	3.48	24.00	HLMP-4101
13	Mounting Clip and Ring, for T-1 3/4 (5mm) Lamps									516-1394-ND	—	1.25	10.00	HLMP-0103
14	LED Housing, Right Angle Snap-In									516-1395-ND	—	2.25	18.00	HLMP-5029
15	Without standoff	White	Clear	—	3.2V	20mA	1,150	20mA	85°	516-1698-ND	1.05	7.77	65.10	HLMP-FW66-LP000
	With standoff	White	Clear	—	3.2V	20mA	1,150	20mA	85°	516-1699-ND	1.05	7.77	65.10	HLMP-FW67-LP000
16	1.80mm	Red	Diffused	655nm	1.6V	50mA	1.2	10mA	90°	516-1396-ND	.60	3.48	24.00	HLMP-6000
		Red	Diffused	645nm	1.6V	30mA	1.8	1mA	90°	516-1397-ND	.65	3.77	26.00	HLMP-Q150
		HE Red	Diffused	635nm	1.8V	30mA	10	10mA	90°	516-1398-ND	.51	3.00	20.00	HLMP-6300
		HE Red	Water Clear	635nm	1.8V	30mA	40	10mA	28°	516-1399-ND	.51	3.00	20.00	HLMP-6305
		HE Red	Diffused	635nm	1.8V	30mA	1	2mA	90°	516-1400-ND	.60	3.48	24.00	HLMP-7000
		HE Red	Diffused	635nm	5.0V	30mA	2	5V	90°	516-1401-ND	.90	5.20	38.00	HLMP-6620
		Yellow	Diffused	583nm	2.0V	20mA	9	10mA	90°	516-1402-ND	.51	3.00	20.00	HLMP-6400
		Yellow	Water Clear	583nm	2.0V	20mA	20	10mA	28°	516-1403-ND	.51	3.00	20.00	HLMP-6405
		Yellow	Diffused	583nm	2.0V	20mA	0.6	2mA	90°	516-1404-ND	.60	3.48	24.00	HLMP-7019
		Green	Diffused	565nm	2.1V	30mA	7	10mA	90°	516-1405-ND	.51	3.00	20.00	HLMP-6500
		Green	Water Clear	565nm	2.1V	30mA	40	10mA	28°	516-1406-ND	.51	3.00	20.00	HLMP-6505
		Green	Diffused	565nm	2.1V	30mA	0.6	2mA	90°	516-1407-ND	.60	3.48	24.00	HLMP-7040
		Green	Diffused	565nm	5.0V	30mA	2	5V	90°	516-1408-ND	.90	5.20	38.00	HLMP-6820

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd	@ Current	Viewing Angle	Digi-Key Part No.	Pricing 1	10	100	Tape and Reel Size	Tape and Reel Pricing	Avago Part No.
16	1.60mm	Amber	Water Clear	592nm	2.0V	50mA	150	20mA	125°	516-1410-ND	.76	4.48	31.20	—	—	HLMT-PL00
17	1.60mm	Red/Orange	Water Clear	621nm	2.0V	50mA	120	20mA	125°	516-1409-1-ND†	.83	4.95	35.10	1,500	275.40/M	HLMT-PH00-P0011
		Amber	Water Clear	592nm	2.0V	50mA	150	20mA	125°	516-1411-1-ND†	.83	4.95	35.10	1,500	275.40/M	HLMT-PL00-P0W11
	1.80mm	Amber	Water Clear	592nm	2.0V	50mA	1,000	20mA	15°	516-1412-1-ND†	.83	4.95	35.10	1,500	275.40/M	HLMT-QL00-T0011
		Yellow	Water Clear	583nm	2.0V	20mA	20	10mA	28°	516-1413-1-ND†	.60	3.48	24.00	1,500	192.00/M	HLMP-6405-J0011
		Green	Water Clear	565nm	2.1V	30mA	40	10mA	28°	516-1414-1-ND†	.60	3.48	24.00	1,500	192.00/M	HLMP-6505-L0011
18	1.80mm	HE Red	Diffused	635nm	5.0V	30mA	2	5V	90°	516-1415-ND	1.00	6.25	46.25	—	—	HLMP-6620-F0010
		Yellow	Diffused	583nm	2.0V	20mA	9	10mA	90°	516-1416-ND	.72	4.20	29.25	—	—	HLMP-6400-F0010
		Green	Diffused	565nm	2.1V	30mA	7	10mA	90°	516-1417-ND	.72	4.20	29.25	—	—	HLMP-6500-F0010
		Green	Diffused	565nm	5.0V	30mA	2	5V	90°	516-1418-ND	1.00	6.25	46.25	—	—	HLMP-6820-F0010
19	0603	HE Red/Green	Diffused	630/570nm	2.1/2.2V	20mA	10/15	20mA	120°	516-1419-1-ND†	.39	2.24	14.70	4,000	105.00/M	HSMF-C165
20	0603	Red	Diffused	660nm	1.8V	25mA	17	20mA	170°	516-1420-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMH-C190
		Red	Diffused	637nm	1.9V	30mA	90	20mA	170°	516-1421-1-ND†	.45	2.56	16.80	4,000	120.00/M	HSMC-C190
		HE Red	Diffused	630nm	2.1V	20mA	10	20mA	170°	516-1422-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMS-C190
		Amber	Diffused	595nm	1.9V	30mA	90	20mA	170°	516-1423-1-ND†	.45	2.56	16.80	4,000	120.00/M	HSMA-C190
		Yellow	Diffused	589nm	2.1V	20mA	8	20mA	170°	516-1424-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMY-C190
		Green	Diffused	570nm	2.2V	20mA	15	20mA	170°	516-1425-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMG-C190
		Blue	Diffused	428nm	3.8V	20mA	6	20mA	170°	516-1426-1-ND†	.98	6.25	45.00	4,000	350.00/M	HSMB-C190
21	0805	Red	Diffused	660nm	1.8V	25mA	17	20mA	170°	516-1427-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMH-C170
		Red	Diffused	637nm	1.9V	30mA	90	20mA	170°	516-1428-1-ND†	.43	2.48	16.80	4,000	120.00/M	HSMC-C170

† For Tape and Reel Part number, change the 1-ND to 2-ND. * For Tape and Box Part number, change the 1-ND to 3-ND.

(Continued)

Fig.	Description	Color	Lens	Peak Length	Forward Voltage	Forward Current	Luminous Intensity mcd @ Current		Viewing Angle	Digi-Key Part No.	Pricing			Tape and Reel		Avago Part No.
											1	10	100	Size	Pricing	
21	0805	HE Red	Diffused	630nm	2.1V	20mA	10	20mA	170°	516-1429-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMS-C170
		Red	Diffused	630nm	1.9V	30mA	50	20mA	165°	516-1430-1-ND†	.66	3.92	27.30	4,000	203.00/M	HSMC-S670
		Amber	Diffused	595nm	1.9V	30mA	90	20mA	170°	516-1431-1-ND†	.43	2.48	16.80	4,000	120.00/M	HSMA-C170
		Amber	Diffused	592nm	1.9V	30mA	65	20mA	165°	516-1432-1-ND†	.66	3.92	27.30	4,000	203.00/M	HSMA-S670
		Yellow	Diffused	589nm	2.1V	20mA	8	20mA	170°	516-1433-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMY-C170
		Green	Diffused	570nm	2.2V	20mA	15	20mA	170°	516-1434-1-ND†	.27	1.48	9.60	4,000	64.00/M	HSMG-C170
		Green	Diffused	523nm	3.3V	20mA	120	20mA	170°	516-1435-1-ND†	.85	5.63	43.25	4,000	343.75/M	HSMM-C170
		Blue	Diffused	469nm	3.4V	25mA	55	20mA	140°	516-1445-1-ND†	.61	4.05	31.14	4,000	247.50/M	HSMR-C170
		Blue	Diffused	468nm	3.3V	20mA	35	20mA	170°	516-1437-1-ND†	.61	4.05	31.14	4,000	247.50/M	HSMN-C170
		Blue	Diffused	428nm	3.8V	20mA	6	20mA	170°	516-1438-1-ND†	.98	6.25	45.00	4,000	350.00/M	HSMB-C170
22	1206	Red	Diffused	660nm	1.8V	30mA	17	20mA	170°	516-1439-1-ND†	.25	1.40	9.00	3,000	64.00/M	HSMH-C150
		HE Red	Diffused	630nm	2.1V	25mA	10	20mA	170°	516-1440-1-ND†	.25	1.40	9.00	3,000	64.00/M	HSMS-C150
		Orange	Diffused	605nm	2.2V	25mA	8	20mA	170°	516-1441-1-ND†	.25	1.40	9.00	3,000	64.00/M	HSMD-C150
		Yellow	Diffused	589nm	2.1V	25mA	8	20mA	170°	516-1442-1-ND†	.25	1.40	9.00	3,000	64.00/M	HSMY-C150
		Green	Diffused	570nm	2.2V	25mA	15	20mA	170°	516-1443-1-ND†	.25	1.40	9.00	3,000	64.00/M	HSMG-C150
		Green	Diffused	520nm	3.4V	25mA	145	20mA	140°	516-1444-1-ND†	.85	5.63	43.25	3,000	350.00/M	HSMQ-C150
		Blue	Diffused	469nm	3.4V	25mA	55	20mA	140°	516-1436-1-ND†	.61	4.05	31.14	3,000	252.00/M	HSMR-C150
		Blue	Diffused	468nm	3.3V	20mA	35	20mA	170°	516-1446-1-ND†	.61	4.05	31.14	3,000	252.00/M	HSMN-C150
		Blue	Diffused	428nm	3.8V	20mA	6	20mA	170°	516-1447-1-ND†	.98	6.25	45.00	3,000	356.25/M	HSMB-C150
23	1206 R/A	Red	Diffused	660nm	1.8V	30mA	19	20mA	130°	516-1448-1-ND†	.25	1.40	9.00	3,000	64.00/M	HSMH-C110
		HE Red	Diffused	630nm	2.1V	25mA	11	20mA	130°	516-1449-1-ND†	.25	1.40	9.00	3,000	64.00/M	HSMS-C110
		Amber	Water Clear	595nm	1.9V	30mA	95	20mA	130°	516-1450-1-ND†	.46	2.70	18.00	3,000	135.00/M	HSMA-C110
		Yellow	Diffused	589nm	2.1V	25mA	9	20mA	130°	516-1451-1-ND†	.25	1.40	9.00	3,000	64.00/M	HSMY-C110
		Green	Diffused	570nm	2.2V	25mA	16	20mA	130°	516-1452-1-ND†	.25	1.40	9.00	3,000	64.00/M	HSMG-C110
24	1208 R/A	HE Red	Water Clear	639nm	1.9V	25mA	5	20mA	155°	516-1453-1-ND†	.46	2.70	18.00	3,000	135.00/M	HSMS-C660
		Green	Water Clear	570nm	2.2V	25mA	9	20mA	155°	516-1454-1-ND†	.46	2.70	18.00	3,000	135.00/M	HSMG-C660
25	1210	HE Red/Green	Diffused	630/570nm	2.1/2.2V	25mA	10/15	20mA	170°	516-1456-1-ND†	.39	2.24	14.70	3,000	108.50/M	HSMF-C155
		Yellow/Green	Diffused	589/570nm	2.1/2.2V	25mA	8/15	20mA	170°	516-1457-1-ND†	.39	2.24	14.70	3,000	108.50/M	HSMF-C156
26	Rect. 3.20mm x 2.80mm	Red	Water Clear	639nm	2.2V	30mA	400	20mA	120°	516-1459-1-ND†	.63	3.63	25.00	2,000	191.25/M	HSMZ-A100-R00J1
		Amber	Water Clear	594nm	2.2V	30mA	270	20mA	120°	516-1460-1-ND†	.60	3.48	24.00	2,000	186.00/M	HSMU-A100-R00J1
		Yellow/Green	Water Clear	565nm	2.2V	30mA	18	20mA	120°	516-1462-1-ND†	.27	1.43	9.12	2,000	64.60/M	HSMG-A100-J02J1
		Green	Water Clear	523nm	3.4V	30mA	350	20mA	120°	516-1463-1-ND†	1.29	7.94	59.58	2,000	479.95/M	HSMM-A100-S00J1
		Blue	Water Clear	468nm	3.4V	30mA	70	20mA	120°	516-1464-1-ND†	1.08	6.75	49.95	2,000	391.50/M	HSMN-A100-P00J1
27	Rect. 3.40mm x 1.25mm	Red	Water Clear	637nm	1.9V	25mA	75	20mA	170°	516-1465-1-ND†	.41	2.40	16.00	3,000	120.00/M	HSMC-C265
		Amber	Water Clear	595nm	1.9V	25mA	75	20mA	170°	516-1466-1-ND†	.41	2.40	16.00	3,000	120.00/M	HSMA-C265
		Green	Water Clear	570nm	2.2V	25mA	15	20mA	170°	516-1467-1-ND†	.40	2.28	15.40	3,000	108.50/M	HSMG-C265
28	Without Standoff	Blue	Diffused	470nm	3.3V	30mA	1500	20mA	80°/30°	516-1694-1-ND*	1.48	9.12	68.40	2,000	551.00/M	HLMP-AB86-MQ0ZZ
	With Standoff	Blue	Diffused	470nm	3.3V	30mA	1500	20mA	80°/30°	516-1695-ND	.93	6.85	57.35	—	—	HLMP-AB87-MQ000
28	Without Standoff	Green	Diffused	525nm	3.2V	30mA	7200	20mA	80°/30°	516-1696-1-ND*	1.48	9.12	68.40	2,000	551.00/M	HLMP-AM86-TW0ZZ
	With Standoff	Green	Diffused	525nm	3.2V	30mA	7200	20mA	80°/30°	516-1697-ND	.93	6.85	57.35	—	—	HLMP-AM87-TW000

† For Tape and Reel Part number, change the 1-ND to 2-ND.   * For Tape and Box Part number, change the 1-ND to 3-ND.

Smart Displays

Fig. 1

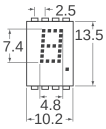

Fig. 2

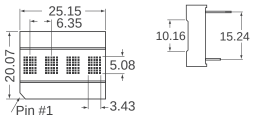

Fig. 3

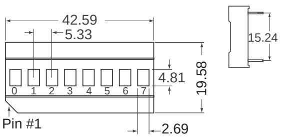

Fig. 4

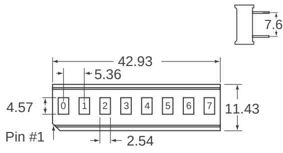

Fig. 5

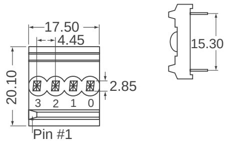

Fig. 6

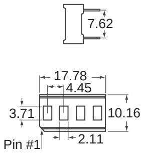

Fig. 7

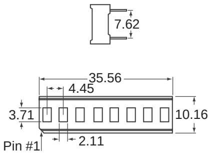

Fig. 8

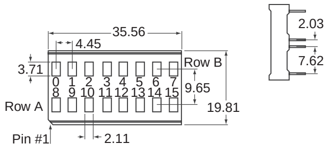

Fig. 9

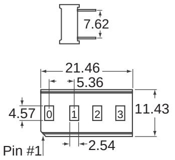

Fig. 10

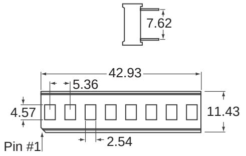

Fig.	No. of Char.	Color	Peak Length (nm)	Char. Height (in.)	Char. Format	Luminous Intensity	Digi-Key Part No.	Price Each			Avago Part No.
								1	10	100	
Numeric											
1	1	HE Red	635	0.290	1	140 µcd	516-1154-ND	34.83	28.58	25.01	HDSP-0760
Hexadecimal											
1	1	HE Red	635	0.290	1	140 µcd	516-1155-ND	36.31	29.80	26.07	HDSP-0762
		HE Red	635	0.290	1	620 µcd	516-1156-ND	36.31	29.80	26.07	HDSP-0772
		Green	568	0.290	1	1,100 µcd	516-1157-ND	31.47	25.83	22.60	HDSP-0962
7-Bit Parallel											
2	4	HE Red	635	0.200	4.0 x 1	3.50 mcd	516-1158-5-ND	18.67	15.12	12.67	HDLO-2416
		Yellow	583	0.200	4.0 x 1	3.70 mcd	516-1159-5-ND	18.67	15.12	12.67	HDLY-2416
		Green	568	0.200	4.0 x 1	5.60 mcd	516-1160-5-ND	18.67	15.12	12.67	HDLG-2416
		Red	645	0.200	4.0 x 1	3.10 mcd	516-1693-ND	24.70	18.28	15.32	HDLU-2416
8-Bit Parallel											
3	8	HE Red	635	0.189	8.0 x 1	7.50 mcd	516-1161-5-ND	34.40	28.23	24.70	HDSP-2112
		Yellow	583	0.189	8.0 x 1	7.50 mcd	516-1162-5-ND	34.40	28.23	24.70	HDSP-2111
		Green	568	0.189	8.0 x 1	7.50 mcd	516-1163-5-ND	34.40	28.23	24.70	HDSP-2113
		HE Red	635	0.270	8.0 x 1	7.50 mcd	516-1164-5-ND	40.66	33.17	29.43	HDSP-2502
		Green	568	0.270	8.0 x 1	7.50 mcd	516-1165-5-ND	40.66	33.17	29.43	HDSP-2503
4	8	Red	645	0.180	8.0 x 1	25.0 mcd	516-1166-5-ND	36.08	29.60	25.90	HDSP-2534
		HE Red	635	0.180	8.0 x 1	7.50 mcd	516-1167-5-ND	32.57	26.72	23.38	HDSP-2532
		Yellow	583	0.180	8.0 x 1	7.50 mcd	516-1168-5-ND	32.57	26.72	23.38	HDSP-2531

Fig.	No. of Char.	Color	Peak Length (nm)	Char. Height (in.)	Char. Format	Luminous Intensity	Digi-Key Part No.	Price Each			Avago Part No.
								1	10	100	
4	8	Green	568	0.180	8.0 x 1	7.50 mcd	516-1169-5-ND	32.57	26.72	23.38	HDSP-2533
7-Bit Parallel											
5	4	Red	655	0.112	4.0 x 1	1.0 mcd	516-1170-5-ND	19.78	15.55	13.43	HPDL-1414
Serial Input											
6	4	HER	635	0.146	4.0 x 1	64 µcd	516-1171-5-ND	21.32	17.38	14.93	HCMS-2902
		Yellow	583	0.146	4.0 x 1	64 µcd	516-1172-5-ND	21.32	17.38	14.93	HCMS-2901
		Green	568	0.146	4.0 x 1	114 µcd	516-1173-5-ND	21.32	17.38	14.93	HCMS-2903
7	8	HER	635	0.146	8.0 x 1	64 µcd	516-1174-5-ND	31.26	25.65	22.45	HCMS-2912
		Yellow	583	0.146	8.0 x 1	64 µcd	516-1175-5-ND	31.26	25.65	22.45	HCMS-2911
		Green	568	0.146	8.0 x 1	114 µcd	516-1176-5-ND	31.26	25.65	22.45	HCMS-2913
		Red	645	0.150	5.0 x 7	230 µcd	516-1605-5-ND	44.75	33.12	27.75	HCMS-2915
8	16	HER	635	0.146	8.0 x 2	64 µcd	516-1177-5-ND	64.12	53.43	47.20	HCMS-2922
		Yellow	583	0.146	8.0 x 2	64 µcd	516-1178-5-ND	64.12	53.43	47.20	HCMS-2921
		Green	568	0.146	8.0 x 2	114 µcd	516-1179-5-ND	64.12	53.43	47.20	HCMS-2923
9	4	HER	635	0.180	4.0 x 1	64 µcd	516-1180-5-ND	21.94	17.89	15.36	HCMS-2962
		Yellow	583	0.180	4.0 x 1	64 µcd	516-1181-5-ND	21.94	17.89	15.36	HCMS-2961
		Green	568	0.180	4.0 x 1	114 µcd	516-1182-5-ND	21.94	17.89	15.36	HCMS-2963
		Red	645	0.200	5.0 x 7	230 µcd	516-1606-5-ND	30.25	22.39	18.76	HCMS-2965
10	8	HER	635	0.180	8.0 x 1	64 µcd	516-1183-5-ND	32.57	26.72	23.38	HCMS-2972
		Yellow	583	0.180	8.0 x 1	64 µcd	516-1184-5-ND	32.57	26.72	23.38	HCMS-2971
		Green	568	0.180	8.0 x 1	114 µcd	516-1185-5-ND	32.57	26.72	23.38	HCMS-2973
		Red	645	0.200	5.0 x 7	230 µcd	516-1607-5-ND	46.25	34.23	28.68	HCMS-2975

Panasonic®

Surface Mount LEDs

The chip LEDs have thin, compact features available for surface mount technology. It makes super brightness, has a wide viewing angle and is suitable for compact and multi-function equipment.

Features: • Compact and thin package • Super bright and high reliability • Surface mount technology available • Wide product range **Cleaning:** • Avoid using organic solvents. The surface of the LED may change when organic solvents such as trichloroethylene and acetone come in contact with the surface of the LED.

Fig. 1 — 0603 (1608) Leadless-SS Type

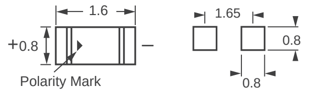

Fig. 1A

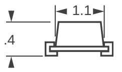

Fig. 1B

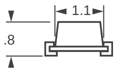

Fig. 2 — 0603 (1608) Leadless-TSS Type

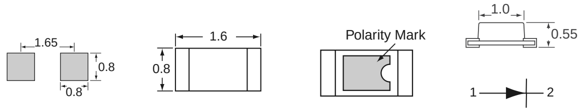

Fig. 3 — J-Lead-S Type

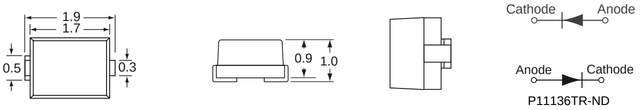

Fig. 4 — Gull Wing-S Type

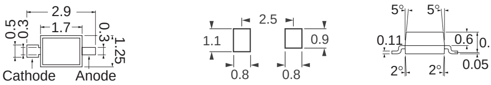

(Polarity Reversed on P493CT/TR-ND and P11505CT/TR-ND)

Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings				Io		Rated	VF(V)		λP	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel		Panasonic
				(mW) PD	(mA) IF	(V) VR	(°C) Topr	(mcd) Typ.	(mcd) Min.	(mA) IF	Typ.	Max.	Typ.	Part No.	1	10	100	Part No.	Size	Pricing	Part No.
0603 (1608) Leadless Height=0.4mm																					
1A	High Bright Red	Red Diffused	GaAlAs	40	15	3	-30~85	6.7	2.2	10	1.72	2.5	655	P11461CT-ND	.38	.34	.31	P11461TR-ND	5,000	113.00/M	LNJ214R8ARA
	Orange	Red Diffused	GaAsP	40	15	3	-30~85	1	0.5	10	1.93	2.6	630	P11462CT-ND	.35	.32	.29	P11462TR-ND	5,000	104.00/M	LNJ814R8DRA
	Soft Orange	Yellow Diffused	GaAsP	40	15	3	-30~85	1	0.5	10	1.93	2.6	610	P11463CT-ND	.35	.32	.29	P11463TR-ND	5,000	104.00/M	LNJ814K8SRA
	Amber	Yellow Diffused	GaAsp	40	15	3	-30~85	1.5	0.6	10	2	2.6	590	P11464CT-ND	.35	.32	.29	P11464TR-ND	5,000	104.00/M	LNJ414K8YRA
	Yellow Green	Green Diffused	GaP	40	15	4	-30~85	5	1.8	10	2.03	2.6	565	P11465CT-ND	.32	.29	.26	P11465TR-ND	5,000	95.00/M	LNJ314G8TRA
Ultra Bright InGaAIP LED																					
1A	Ultra Bright Red	Red Diffused	InGaAIP	40	15	4	-30~85	15	8	10	1.92	2.5	645	P11466CT-ND	.56	.53	.48	P11466TR-ND	5,000	208.00/M	LNJ214R82RA
	Orange	Red Diffused	InGaAIP	40	15	4	-30~85	32	17	10	2.03	2.5	630	P11467CT-ND	.56	.53	.48	P11467TR-ND	5,000	208.00/M	LNJ814R83RA
	Orange	Red Diffused	InGaAIP	40	15	4	-30~85	30	16	10	1.95	2.5	620	P11468CT-ND	.56	.53	.48	P11468TR-ND	5,000	208.00/M	LNJ814R88RA
	Soft Orange	Yellow Diffused	InGaAIP	40	15	4	-30~85	21	8.7	10	1.95	2.5	615	P11469CT-ND	.56	.53	.48	P11469TR-ND	5,000	208.00/M	LNJ814K87RA
	Amber	Yellow Diffused	InGaAIP	40	15	4	-30~85	26	14	10	2.1	2.5	595	P11470CT-ND	.56	.53	.48	P11470TR-ND	5,000	208.00/M	LNJ414K84RA
	Yellow Green	Green Diffused	InGaAIP	40	15	4	-30~85	12	6.4	10	2.03	2.5	575	P11471CT-ND	.56	.53	.48	P11471TR-ND	5,000	208.00/M	LNJ314G83RA
0603 (1608) Leadless Height=0.55mm																					
2	High Bright Red	Red Diffused	GaAlAs	50	20	3	-30~85	6.7	2.2	10	1.72	2.5	655	P11133CT-ND	.33	.31	.28	P11133TR-ND	5,000	104.00/M	LNJ212R8ARA
	Orange	Orange Diffused	GaAsP	50	20	3	-30~85	1	0.4	10	1.93	2.6	630	P11594CT-ND	.32	.29	.26	P11594TR-ND	5,000	95.00/M	LNJ812R8DRA
	Soft Orange	Yellow Diffused	GaAsP	50	20	3	-30~85	1	0.5	10	1.93	2.6	610	P11472CT-ND	.32	.29	.26	P11472TR-ND	5,000	95.00/M	LNJ812K8SRA
	Amber	Yellow Diffused	GaAsP	50	20	4	-30~85	1.5	0.6	5	2	2.6	590	P11135CT-ND	.33	.31	.28	P11135TR-ND	5,000	95.00/M	LNJ412K8YRA
	Yellow Green	Green Diffused	Gap	50	20	4	-30~85	5	1.8	5	2.03	2.6	565	P11134CT-ND	.33	.31	.28	P11134TR-ND	5,000	86.00/M	LNJ312G8TRA
	Yellow Green	Green Diffused	Gap	30	10	4	-30~85	3	1.8	10	1.9	2.4	565	P11473CT-ND	.29	.26	.24	P11473TR-ND	5,000	86.00/M	LNJ312G8LRA
Ultra Bright InGaAIP / GaN LED																					
2	Red	Red Diffused	InGaAIP	55	20	4	-30~85	15	8	10	1.92	2.5	645	P11475CT-ND	.52	.49	.44	P11475TR-ND	5,000	190.00/M	LNJ212R82RA
	Orange	Red Diffused	InGaAIP	55	20	4	-30~85	32	17	10	2.03	2.5	630	P11476CT-ND	.52	.49	.44	P11476TR-ND	5,000	190.00/M	LNJ812R83RA
	Orange	Red Diffused	InGaAIP	55	20	4	-30~85	30	16	10	1.95	2.5	620	P11477CT-ND	.52	.49	.44	P11477TR-ND	5,000	190.00/M	LNJ812R88RA
	Soft Orange	Yellow Diffused	InGaAIP	55	20	4	-30~85	21	7	10	1.95	2.5	615	P11478CT-ND	.52	.49	.44	P11478TR-ND	5,000	190.00/M	LNJ812K87RA
	Amber	Yellow Diffused	InGaAIP	55	20	4	-30~85	26	14	10	2.1	2.5	595	P11479CT-ND	.52	.49	.44	P11479TR-ND	5,000	190.00/M	LNJ412K84RA
	Yellow Green	Green Diffused	InGaAIP	55	20	4	-30~85	12	6.4	20	2.03	2.5	575	P11480CT-ND	.52	.49	.44	P11480TR-ND	5,000	190.00/M	LNJ312G83RA
	Pure Green	White Diffused	GaN	40	10	5	-25~85	34	10.3	5	3	3.7	525	P11481CT-ND	4.15	3.90	3.64	P11481TR-ND	5,000	1724.00/M	LNJ612W8WRA
	Blue	White Diffused	GaN	40	10	5	-25~85	8.5	3.2	5	3.2	3.7	470	P11482CT-ND	4.15	3.90	3.64	P11482TR-ND	2,000	1724.00/M	LNJ912W8BRA
	White	White Diffused	GaN	40	10	5	-30~85	76	47	10	3.2	3.7	—	P12023CT-ND	4.91	4.58	4.15	P12023TR-ND	5,000	1809.00/M	LNJ012X8BRA
0603 (1608) Leadless Height=0.8mm																					
1B	High Bright Red	Red Diffused	GaAlAs	50	20	3	-30~85	6.7	2.2	10	1.72	2.5	660	P524CT-ND	.33	.31	.28	P524TR-ND	4,000	114.00/M	LNJ208R8ARA
	Orange	Orange Diffused	GaAsP	30	10	3	-30~85	1.1	0.4	5	1.8	2.4	630	P523CT-ND*	.33	.31	.28	P523TR-ND*	4,000	104.00/M	LNJ808R8ERA
	Soft Orange	Yellow Diffused	GaAsP	50	20	3	-30~85	1	0.4	10	1.93	2.6	610	P11132CT-ND	.33	.31	.28	P11132TR-ND	4,000	104.00/M	LNJ808K8SRA
	Amber	Yellow Diffused	GaAsP	50	20	4	-30~85	1.5	0.6	10	2	2.6	590	P11129CT-ND	.33	.31	.28	P11129TR-ND	4,000	104.00/M	LNJ408K8YRA
	Amber	Yellow Diffused	GaAsP	30	10	4	-30~85	0.9	0.4	5	1.9	2.4	590	P522CT-ND*	.33	.31	.28	P522TR-ND*	4,000	104.00/M	LNJ408K8ZRA
	Yellow Green	Green Diffused	GaP	50	20	4	-30~85	5	1.8	10	2.03	2.6	565	P525CT-ND	.33	.31	.28	P525TR-ND	4,000	95.00/M	LNJ308G8TRA
	Yellow Green	Green Diffused	GaP	30	10	4	-30~85	2.1	0.7	5	1.9	2.4	565	P521CT-ND*	.33	.31	.28	P521TR-ND*	4,000	95.00/M	LNJ308G8LRA
	Pure Green	Green Diffused	GaP	50	20	4	-25~85	0.7	0.25	10	2.03	2.6	555	P11485CT-ND	.35	.32	.29	P11485TR-ND	4,000	114.00/M	LNJ308G8PRA
Ultra Bright InGaAIP LED																					
1B	Ultra Bright Red	Red Diffused	InGaAIP	55	20	4	-25~85	15	8	10	1.92	2.5	645	P11486CT-ND	.52	.49	.44	P11486TR-ND	4,000	209.00/M	LNJ208R82RA
	Orange	Red Diffused	InGaAIP	55	20	4	-25~85	32	17	10	2.03	2.5	630	P11487CT-ND	.52	.49	.44	P11487TR-ND	4,000	209.00/M	LNJ808R83RA
	Orange	Red Diffused	InGaAIP	50	20	4	-25~85	6.5	2.5	10	1.9	2.3	620	P11131CT-ND	.53	.49	.45	P11131TR-ND	4,000	209.00/M	LNJ808R88RA
	Soft Orange	Yellow Diffused	InGaAIP	55	20	4	-25~85	21	7	10	1.95	2.5	615	P11488CT-ND	.52	.49	.44	P11488TR-ND	4,000	209.00/M	LNJ808K87RA
	Amber	Yellow Diffused	InGaAIP	50	20	4	-25~85	10.5	4	10	2	2.3	595	P11130CT-ND	.53	.49	.45	P11130TR-ND	4,000	209.00/M	LNJ408K84RA
	Yellow Green	Green Diffused	InGaAIP	55	20	4	-25~85	12	6.4	10	2.03	2.5	575	P11489CT-ND	.52	.49	.44	P11489TR-ND	4,000	209.00/M	LNJ308G83RA
0805 (2012) J- Lead S-J Type 2mm pitch Taping																					
3	Red	Red Diffused	GaP	60	20	4	-25~85	0.4	0.15	10	2.03	2.6	700	P11490CT-ND	.33	.30	.27	P11490TR-ND	6,000	99.00/M	LNJ206R5RRX
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-25~85	5	1.7	10	1.72	2.5	660	P11136CT-ND	.33	.31	.28	P11136TR-ND	6,000	113.00/M	LNJ206R5ARA
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25~85	0.8	0.3	10	1.93	2.6	610	P11491CT-ND	.35	.32	.29	P11491TR-ND	6,000	104.00/M	LNJ806K5SRX
	Amber	Yellow Diffused	GaAsP	60	20	4	-25~85	1	0.4	10	2	2.6	590	P11492CT-ND	.35	.32	.29	P11492TR-ND	6,000	104.00/M	LNJ406K5YRX
	Yellow Green	Green Diffused	GaP	60	20	4	-25~85	2.6	0.9	10	2.03	2.6	565	P11137CT-ND	.33	.31	.28	P11137TR-ND	6,000	99.00/M	LNJ306G5URA
	Pure Green	Green Diffused	GaP	60	20	4	-25~85	0.65	0.25	10	2.03	2.6	555	P11493CT-ND	.38	.34	.31	P11493TR-ND	6,000	113.00/M	LNJ306G5PRX
Ultra Bright InGaAIP LED																					
3	Orange	Red Diffused	InGaAIP	50	20	4	-25~85	5	2	10	1.9	2.3	620	P11494CT-ND	.56	.53	.48	P11494TR-ND	6,000	208.00/M	LNJ806R58RX
	Amber	Yellow Diffused	InGaAIP	50	20	4	-25~85	8.5	3.5	10	2	2.3	595	P11495CT-ND	.56	.53	.48	P11495TR-ND	6,000	208.00/M	LNJ406K54RX
0805 (2012) J- Lead S-J Type 4mm pitch Taping																					
3	Red	Red Diffused	GaP	60	20	4	-25~85	0.4	0.15	10	2.03	2.6	700	P11496CT-ND	.33	.30	.27	P11496TR-ND	3,000	108.00/M	LNJ206R5RUX
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-25~85	5	1.7	5	1.72	2.5	660	P11497CT-ND	.38	.34	.31	P11497TR-ND	3,000	124.00/M	LNJ206R5AUX
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25~85	0.8	0.3	10	1.93	2.6	610	P11498CT-ND	.35	.32	.29	P11498TR-ND	3,000	114.00/M	LNJ806K5SUX
	Amber	Yellow Diffused	GaAsP	60	20	4	-25~85	1	0.4	10	2	2.6	590	P11499CT-ND	.35	.32	.29	P11499TR-ND	3,000	114.00/M	LNJ406K5YUX
	Yellow Green	Green Diffused	GaP	60	20	4	-25~85	3.5	1.35	10	2.03	2.6	565	P11500CT-ND	.33	.30	.27	P11500TR-ND	3,000	108.00/M	LNJ306G5UUX
	Pure Green	Green Diffused	GaP	60	20	4	-25~85	0.65	0.25	10	2.03	2.6	555	P11501CT-ND	.38	.34	.31	P11501TR-ND	3,000	124.00/M	LNJ306G5PUX
Ultra Bright InGaAIP / GaN LED																					
3	Orange	Red Diffused	InGaAIP	50	20	4	-25~85	5	2	10	1.9	2.3	620	P11502CT-ND	.56	.53	.48	P11502TR-ND	3,000	229.00/M	LNJ806R58UX
	Amber	Yellow Diffused	InGaAIP	50	20	4	-25~85	8.5	3.5	10	2	2.3	595	P11503CT-ND	.56	.53	.48	P11503TR-ND	3,000	229.00/M	LNJ406K54UX
	Blue	White Diffused	GaN	40	10	5	-25~85	5.5	2	5	3.2	3.7	470	P11504CT-ND	4.15	3.90	3.64	P11504TR-ND	3,000	1895.00/M	LNJ906W5BUX
0805 (2012) Gull Wing S-GW Type 2mm pitch Taping																					
4	Red	Red Diffused	GaP	60	20	4	-25~85	0.4	0.15	10	2.03	2.6	700	P490CT-ND	—	.31	.28	P490TR-ND	6,000	99.00/M	LN1271RTR
	Ultra Bright Red	Red Diffused	GaAlAs	60	20	3	-25~85	5	1.7	10	1.72	2.5	660	P493CT-ND	—	.41	.37	P493TR-ND	6,000	113.00/M	LN1271RALTR
	Orange	Red Diffused	GaAsP	30	10	3	-30~85	1	0.4	5	1.8	2.4	630	P518CT-ND	.33	.31	.28	P518TR-ND	6,000	119.00/M	LN1871SRTR

* Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type *(Continued)*

Fig. 5 — 1206 (3216) LeadlessType

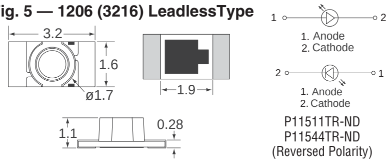

P11511TR-ND
P11544TR-ND
(Reversed Polarity)

Fig. 6 — 1206 (3216) Leadless Type, 30° Dome Lens

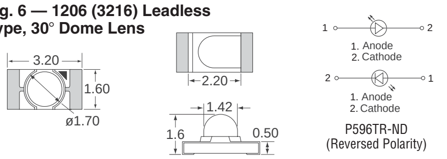

P596TR-ND
(Reversed Polarity)

Fig. 7 — Leadless-Side View

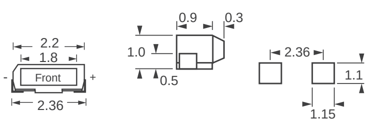

Fig. 8 — Gull Wing-GW Type

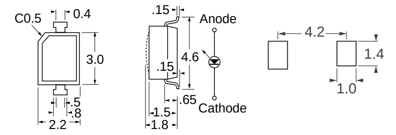

Fig. 9 — J-Lead-S Type

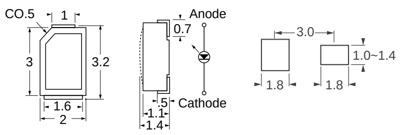

Fig. 10 — TSS Bi-Color Type

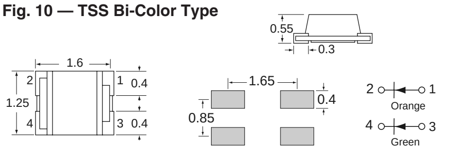

Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings				Io		Rated	VF(V)		λP	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel		Panasonic
				(mW) PD	(mA) IF	(V) VR	(°C) Topr	(mcd) Typ.	(mcd) Min.	(mA) IF	Typ.	Max.	Typ.	Part No.	1	10	100	Part No.	Size	Pricing	Part No.
0805 (2012) Gull Wing S-GW Type 2mm pitch Taping																					
4	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25~85	0.8	0.3	10	1.93	2.6	610	P492CT-ND	—	.31	.29	P492TR-ND	6,000	104.00/M	LN1871Y5TR
	Amber	Yellow Diffused	GaAsP	60	20	4	-25~85	1	0.4	10	2	2.6	590	P11125CT-ND	.36	.33	.30	P11125TR-ND	6,000	104.00/M	LN1471YTR
	Amber	Yellow Diffused	GaAsP	30	10	4	-30~85	1	0.4	5	1.9	2.4	590	P517CT-ND*	.33	.31	.28	P517TR-ND*	6,000	119.00/M	LN1471SYTR
	Yellow Green	Green Diffused	GaP	60	20	4	-25~85	2.6	0.9	10	2.03	2.6	565	P491CT-ND	—	.31	.28	P491TR-ND	6,000	99.00/M	LN1371GTR
	Yellow Green	Green Diffused	GaP	30	10	4	-30~85	2	0.7	5	1.9	2.4	565	P516CT-ND*	.33	.31	.28	P516TR-ND*	6,000	113.00/M	LN1371SGTR
	High Bright Yellow Green	Green Diffused	GaP	60	20	4	-25~85	5	3	10	2.03	2.6	565	P494CT-ND	—	.33	.30	P494TR-ND	6,000	103.00/M	LNJ306G5TR02
0805 (2012) Gull Wing S-GW Type 4mm pitch Taping																					
4	Ultra Bright Red	Red Diffused	GaAlAs	60	20	3	-25~85	5	1.7	10	1.72	2.5	660	P11505CT-ND	.38	.34	.31	P11505TR-ND	3,000	124.00/M	LN1271RALTRP
	Orange	Red Diffused	GaAsP	30	10	3	-30~85	1	0.4	5	1.8	2.4	630	P11506CT-ND	.37	.33	.30	P11506TR-ND	3,000	119.00/M	LN1871SRTRP
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-25~85	0.8	0.3	10	1.93	2.6	610	P11507CT-ND	.35	.32	.29	P11507TR-ND	3,000	114.00/M	LN1871Y5TRP
	Amber	Yellow Diffused	GaAsP	30	10	4	-30~85	1	0.4	5	1.9	2.4	590	P11508CT-ND	.35	.32	.29	P11508TR-ND	3,000	114.00/M	LN1471SYTRP
	Yellow Green	Green Diffused	GaP	60	20	4	-25~85	2.6	0.9	10	2.03	2.6	565	P11509CT-ND	.33	.30	.27	P11509TR-ND	3,000	108.00/M	LN1371GTRP
	Yellow Green	Green Diffused	GaP	30	10	4	-25~85	2	0.7	5	1.9	2.4	565	P11510CT-ND	.35	.32	.28	P11510TR-ND	3,000	113.00/M	LN1371SGTRP
	High Bright Yellow Green	Green Diffused	GaP	60	20	4	-25~85	5	3	10	2.03	2.6	565	P11595CT-ND	.35	.32	.28	P11595TR-ND	3,000	113.00/M	LNJ306G5TUWQ
1206 (3216) Leadless with Flat Lens Type																					
5	High Bright Red	Red Diffused	GaAlAs	60	20	3	-30~85	7	2.3	10	1.72	2.5	660	P11141CT-ND	.33	.31	.28	P11141TR-ND	3,000	138.00/M	LNJ211R8ARA
	Orange	Red Diffused	GaAsP	60	20	3	-30~85	1.8	0.7	10	1.93	2.6	630	P11526CT-ND	.39	.36	.32	P11526TR-ND	3,000	128.00/M	LNJ811R8DRA
	Soft Orange	Yellow Diffused	GaAsP	60	20	3	-30~85	1	0.5	10	1.93	2.6	610	P11527CT-ND	.39	.36	.32	P11527TR-ND	3,000	128.00/M	LNJ811K8SRA
	Amber	Yellow Diffused	GaAsP	60	20	4	-30~85	2.2	0.75	10	2	2.6	590	P11528CT-ND	.39	.36	.32	P11528TR-ND	3,000	128.00/M	LNJ411K8YRA
	Yellow Green	Green Diffused	GaP	60	20	4	-30~85	5.5	1.8	10	2.03	2.6	565	P11529CT-ND	.36	.33	.30	P11529TR-ND	3,000	118.00/M	LNJ311G8TRA
	Pure Green	Green Diffused	GaP	60	20	4	-30~85	0.7	0.25	10	2.03	2.6	555	P11531CT-ND	.42	.38	.35	P11531TR-ND	3,000	138.00/M	LNJ311G8PRA
	High Bright Red	Red Diffused	GaAlAs	60	20	3	-30~85	7	2.3	10	1.72	2.5	660	P541CT-ND†	.33	.31	.28	P541TR-ND†	3,000	138.00/M	LNJ211R8ARU
	Orange	Red Diffused	GaAsP	60	20	3	-30~85	1.8	0.7	10	1.93	2.6	630	P11540CT-ND†	.39	.36	.32	P11540TR-ND†	3,000	128.00/M	LNJ811R8DRU
	Amber	Yellow Diffused	GaAsP	60	20	4	-30~85	2.2	0.75	10	2	2.6	590	P11596CT-ND†	.39	.36	.32	P11596TR-ND†	3,000	128.00/M	LNJ411K8YRU
	Yellow Green	Green Diffused	GaP	60	20	4	-30~85	5.5	1.8	10	2.03	2.6	565	P540CT-ND†	.33	.31	.28	P540TR-ND†	3,000	118.00/M	LNJ311G8TRU
Ultra Bright InGaAIP / GaN LED																					
5	Ultra Bright Red	Red Diffused	InGaAIP	55	20	4	-30~85	15	8	10	1.92	2.5	645	P11532CT-ND	.63	.59	.54	P11532TR-ND	3,000	256.00/M	LNJ211R82RA
	Orange	Red Diffused	InGaAIP	55	20	4	-30~85	32	17	10	2.03	2.5	630	P11533CT-ND	.63	.59	.54	P11533TR-ND	3,000	256.00/M	LNJ811R83RA
	Orange	Red Diffused	InGaAIP	50	20	4	-30~85	6.5	3.5	10	1.9	2.5	620	P11534CT-ND	.63	.59	.54	P11534TR-ND	3,000	256.00/M	LNJ811R88RA
	Soft Orange	Red Diffused	InGaAIP	55	20	4	-30~85	21	10	10	1.95	2.5	615	P11535CT-ND	.63	.59	.54	P11535TR-ND	3,000	256.00/M	LNJ811K87RA
	Amber	Yellow Diffused	InGaAIP	55	20	4	-30~85	17	9	10	2	2.5	595	P11536CT-ND	.63	.59	.54	P11536TR-ND	3,000	256.00/M	LNJ411K84RA
	Yellow Green	Green Diffused	InGaAIP	55	20	4	-30~85	12	6.4	10	2.03	2.5	575	P11537CT-ND	.63	.59	.54	P11537TR-ND	3,000	256.00/M	LNJ311G83RA
	Blue	White Diffused	GaN	40	10	5	-25~85	8.5	4.5	5	3.2	3.7	470	P11539CT-ND	4.15	3.90	3.64	P11539TR-ND	3,000	1895.00/M	LNJ911W8BRA
	Pure Green	White Diffused	GaN	40	10	5	-25~85	34	14.4	5	3	3.7	525	P11538CT-ND	4.15	3.90	3.64	P11538TR-ND	3,000	1895.00/M	LNJ611W8WRA
	Amber	Yellow Diffused	InGaAIP	55	20	4	-30~85	17	9	10	2	2.5	595	P11541CT-ND†	.63	.59	.54	P11541TR-ND†	3,000	256.00/M	LNJ411K84RU
	Blue	White Diffused	GaN	40	10	5	-25~85	8.5	4.5	5	3.2	3.7	470	P11543CT-ND†	4.15	3.90	3.64	P11543TR-ND†	3,000	1895.00/M	LNJ911W8BRU
	Pure Green	White Diffused	GaN	40	10	5	-25~85	34	14.4	5	3	3.7	525	P11542CT-ND†	4.15	3.90	3.64	P11542TR-ND†	3,000	1895.00/M	LNJ611W8WRU
1206 (3216) Leadless with Micro Lens Type																					
5	High Bright Red	Red Diffused	GaAlAs	60	20	3	-30~85	10.5	4	10	1.72	2.5	660	P11511CT-ND	.42	.38	.35	P11511TR-ND	3,000	138.00/M	LNJ216C8ARA
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30~85	2.1	1.1	10	1.93	2.6	630	P11512CT-ND	.39	.36	.32	P11512TR-ND	3,000	128.00/M	LNJ816C8DRA
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30~85	1.5	0.8	10	1.93	2.6	610	P11513CT-ND	.39	.36	.32	P11513TR-ND	3,000	128.00/M	LNJ816C8SRA
	Amber	Yellow Diffused	GaAsP	60	20	4	-30~85	3.3	1.2	10	2	2.6	590	P11514CT-ND	.39	.36	.32	P11514TR-ND	3,000	128.00/M	LNJ416Q8YRA
	Green	Green Diffused	GaP	60	20	4	-30~85	8.8	3.3	10	2.03	2.6	565	P11515CT-ND	.36	.33	.30	P11515TR-ND	3,000	118.00/M	LNJ316C8TRA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-30~85	1	0.4	10	2.03	2.6	555	P11517CT-ND	.42	.38	.35	P11517TR-ND	3,000	138.00/M	LNJ316C8PRA
	Red	Clear Non Diffused	GaAlAs	60	20	3	-30~85	10.5	4	10	1.72	2.5	660	P11544CT-ND†	.42	.38	.35	P11544TR-ND†	3,000	138.00/M	LNJ216C8ARU
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30~85	2.1	1.1	10	1.93	2.6	630	P11545CT-ND†	.39	.36	.32	P11545TR-ND†	3,000	128.00/M	LNJ816C8DRU
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30~85	3.3	1.2	10	2	2.6	590	P11546CT-ND†	.39	.36	.32	P11546TR-ND†	3,000	128.00/M	LNJ416Q8YRU
	Green	Clear Non Diffused	GaP	60	20	4	-30~85	8.8	3.3	10	2.03	2.6	565	P11547CT-ND†	.36	.33	.30	P11547TR-ND†	3,000	118.00/M	LNJ316C8TRU
Ultra Bright InGaAIP / GaN LED																					
5	Red	Clear Non Diffused	InGaAIP	55	20	4	-30~85	24	12.8	10	1.92	2.5	645	P11518CT-ND	.63	.59	.54	P11518TR-ND	3,000	256.00/M	LNJ216C82RA
	Orange	Clear Non Diffused	InGaAIP	55	20	4	-30~85	48	25	10	2.03	2.5	630	P11519CT-ND	.63	.59	.54	P11519TR-ND	3,000	256.00/M	LNJ816C83RA
	Orange	Clear Non Diffused	InGaAIP	55	20	4	-30~85	9.8	5.2	10	1.9	2.5	620	P11520CT-ND	.63	.59	.54	P11520TR-ND	3,000	256.00/M	LNJ816C88RA
	Soft Orange	Clear Non Diffused	InGaAIP	55	20	4	-30~85	30	16	10	1.95	2.5	615	P11521CT-ND	.63	.59	.54	P11521TR-ND	3,000	256.00/M	LNJ816C87RA
	Amber	Clear Non Diffused	InGaAIP	55	20	4	-30~85	26	13.8	10	2	2.5	595	P11522CT-ND	.63	.59	.54	P11522TR-ND	3,000	256.00/M	LNJ416C84RA
	Yellow Green	Clear Non Diffused	InGaAIP	55	20	4	-30~85	22	11	10	2.03	2.5	575	P11523CT-ND	.63	.59	.54	P11523TR-ND	3,000	256.00/M	LNJ316C83RA
	Blue	Clear Non Diffused	GaN	40	10	5	-25~85	12.8	6.8	15	3.2	3.7	470	P11525CT-ND	4.15	3.90	3.64	P11525TR-ND	3,000	1895.00/M	LNJ916C8BRA
	Pure Green	Clear Non Diffused	GaN	40	10	5	-25~85	51	27.2	5	3	3.7	525	P11524CT-ND	4.15	3.90	3.64	P11524TR-ND	3,000	1895.00/M	LNJ616C8WRA
	Yellow Green	Clear Non Diffused	InGaAIP	55	20	4	-30~85	22	11	10	2.03	2.5	575	P11548CT-ND†	.63	.59	.54	P11548TR-ND†	3,000	256.00/M	LNJ316C83RU
1206 (3216) Leadless with Dome Lens Type (30 degree)																					
6	High Bright Red	Clear	GaAlAs	60	20	3	-30~85	32	17	10	1.72	2.5	660	P596CT-ND	.73	.67	.61	P596TR-ND	2,000	231.00/M	LNJ218C8ARA
	Orange	Clear Non Diffused	GaAsP	60	20	3	-30~85	9	4.5	20	1.93	2.6	630	P11563CT-ND	.50	.47	.43	P11563TR-ND	2,000	202.00/M	LNJ818C8DRA
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30~85	5	2.7	20	1.93	2.6	610	P11564CT-ND	.50	.47	.43	P11564TR-ND	2,000	202.00/M	LNJ818C8SRA
	Yellow Green	Clear	GaP	60	20	4	-30~85	25	10	10	2.03	2.6	565	P595CT-ND	.73	.67	.61	P595TR-ND	2,000	231.00/M	LNJ318C8TRA
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30~85	7	3.7	20	2	2.6	590	P11565CT-ND	.50	.47	.43	P11565TR-ND	2,000	202.00/M	LNJ418Q8YRA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-30~85	3.5	2	20	2.03	2.6	555	P11567CT-ND	.52	.49	.45	P11567TR-ND	2,000	212.00/M	LNJ318C8PRA
	High Bright Red	Clear Non Diffused	GaAlAs	60	20	3	-30~85	32	17	20	1.72	2.5	660	P11576CT-ND	.52	.49	.45	P11576TR-ND	2,000	212.00/M	LNJ218C8ARU
	Soft Orange	Clear Non Diffused	GaAsP	60	20	3	-30~85	5	2.7	10	1.03	2.6	610	P11577CT-ND	.50	.47	.43	P11577TR-ND	2,000	202.00/M	LNJ818C8SRU
	Amber	Yellow Clear Non Diff.	GaAsP	60	20	4	-30~85	7	3.7	20	2	2.6	590	P11578CT-ND	.50	.47	.43	P11578TR-ND	2,000	202.00/M	LNJ418Q8YRU
Ultra Bright InGaAIP LED																					
6	Ultra Bright Red	Clear Non Diffused	InGaAIP	55	20	4	-30~85	75	40	20	1.92	2.5	645	P11568CT-ND	1.00	.94	.85	P11568TR-ND	2,000	404.00/M	LNJ218C82RA
	Orange	Non Diffused	InGaAIP	55	20	4	-30~85	160	85	20	2.03	2.5	630	P11569CT-ND	1.00	.94	.85	P11569TR-ND	2,000	404.00/M	LNJ818C83RA
	Orange	Clear Non Diffused	InGaAIP	55	20	4	-30~85	33	17.6	20	1.9	2.5	620	P11570CT-ND	1.00	.94	.85	P11570TR-ND	2,000	404.00/M	LNJ818C88RA
	Soft Orange	Clear Non Diffused	InGaAIP	55	20	4	-30~85	100	56	20	1.95	2.5	615	P11571CT-ND	1.00	.94	.85	P11571TR-ND	2,000	404.00/M	LNJ818C87RA
	Amber	Clear Non Diffused	InGaAIP	55	20	4	-30~85	85	45	20	2	2.5	595	P11572CT-ND	1.00	.94	.85	P11572TR-ND	2,000	404.00/M	LNJ418C84RA
	Yellow Green	Clear Non Diffused	InGaAIP	55	20	4	-30~85	110	58	20	2.03	2.5	575	P11573CT-ND	1.00	.94	.85	P11573TR-ND	2,000	404.00/M	LNJ318C83RA
	Yellow Green	Clear Non Diffused	InGaAIP	55	20	4	-30~85	110	58	10	2.03	2.5	575	P11579CT-ND†	1.00	.94	.85	P11579TR-ND†	2,000	404.00/M	LNJ318C83RU

* Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment.   † Thru-Board type

(Continued)

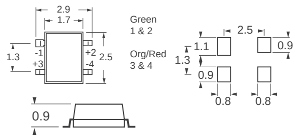
Fig. 11 — Gull Wing-S Type (Bi-Color)

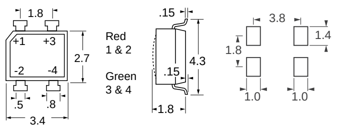
Fig. 12 — Gull Wing-GW Type (Bi-Color)

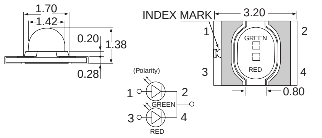
Fig. 13 — Dome Lens (Bi-Color)

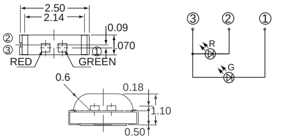
Fig. 14 — Side View (Bi-Color)

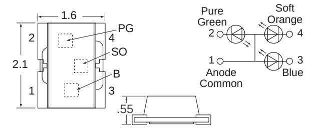
Fig. 15 — TSS Tri-Color Type

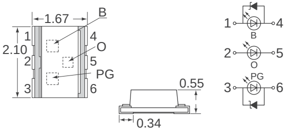
Fig. 16 — Tri-Color Leadless

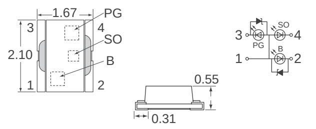
Fig. 17 — Tri-Color Leadless

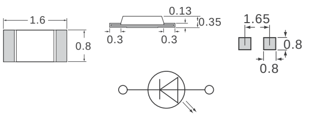
Fig. 18 — 0603 Leadless-Lo-Profile

Fig.	Lighting Color	Lens	Process Tech.	Absolute Max. Ratings				Io		Rated	VF(V)		λP	Digi-Key	Cut Tape Price Each			Digi-Key	Tape & Reel		Panasonic
				(mW) PD	(mA) IF	(V) VR	(°C) Topr	(mcd) Typ.	(mcd) Min.	(mA) IF	Typ.	Max.	Typ.	Part No.	1	10	100	Part No.	Size	Pricing	Part No.
Side Firing LED with Refractive Case																					
7	Red	Clear	GaP	60	20	4	-25~80	0.7	0.25	10	2.03	2.6	700	P11138CT-ND	.40	.37	.34	P11138TR-ND	3,000	163.00/M	LNJ210C6RRA
	High Bright Red	Clear	GaAlAs	60	20	3	-25~80	8	2.6	10	1.72	2.5	660	P11139CT-ND	.40	.37	.34	P11139TR-ND	3,000	182.00/M	LNJ210C6ARA
	Orange	Red Clear	GaAsP	60	20	3	-25~80	2.5	0.8	10	1.93	2.6	630	P519CT-ND	.39	.36	.33	P519TR-ND	3,000	172.00/M	LNJ810L6DRA
	Soft Orange	Red Clear Non Diff.	GaAsP	60	20	3	-25~85	1.8	0.75	10	1.93	2.6	610	P11580CT-ND	.53	.48	.43	P11580TR-ND	3,000	172.00/M	LNJ810L6SRA
	Amber	Yellow Clear	GaAsP	60	20	4	-25~80	2.5	0.8	10	2	2.6	590	P11140CT-ND	.40	.37	.34	P11140TR-ND	3,000	172.00/M	LNJ410Q6YRA
	Yellow Green	Clear	GaP	60	20	4	-25~80	8	3	10	2.03	2.6	565	P520CT-ND	.39	.36	.33	P520TR-ND	3,000	163.00/M	LNJ310M6URA
	Pure Green	Clear Non Diffused	GaP	60	20	4	-25~85	1.1	0.6	10	2.03	2.6	555	P11582CT-ND	.56	.50	.45	P11582TR-ND	3,000	182.00/M	LNJ310C6PRA
	White	White Diffused	GaN	120	30	5	-25~80	260	180	10	3.4	3.9	—	P12024CT-ND	5.77	5.39	4.88	P12024TR-ND	3,000	2340.00/M	LNJ010X6FRA
Ultra Bright InGaAIP LED																					
7	Ultra Bright Red	Clear Non Diffused	InGaAIP	55	20	4	-25~85	23	12	10	1.92	2.5	645	P11583CT-ND	.72	.68	.62	P11583TR-ND	3,000	293.00/M	LNJ210C62RA
	Orange	Clear Non Diffused	InGaAIP	55	20	4	-25~85	48	25	10	2.03	2.5	630	P11584CT-ND	.72	.68	.62	P11584TR-ND	3,000	293.00/M	LNJ810C63RA
	Orange	Clear Non Diffused	InGaAIP	55	20	4	-25~85	45	24	10	1.95	2.5	620	P11585CT-ND	.72	.68	.62	P11585TR-ND	3,000	293.00/M	LNJ810C68RA
	Soft Orange	Clear Non Diffused	InGaAIP	50	20	4	-25~80	30	12	10	1.95	2.5	615	P11586CT-ND	.72	.68	.62	P11586TR-ND	3,000	293.00/M	LNJ810C67RA
	Amber	Clear Non Diffused	InGaAIP	50	20	4	-25~80	22.5	8.5	10	2	2.5	595	P11587CT-ND	.72	.68	.62	P11587TR-ND	3,000	293.00/M	LNJ410C64RA
	Yellow Green	Clear Non Diffused	InGaAIP	50	20	4	-25~80	15	7.7	10	2	2.5	575	P11588CT-ND	.72	.68	.62	P11588TR-ND	3,000	293.00/M	LNJ310C63RA
Gull Wing GW Type with Refractive Case																					
8	Red	Clear	GaP	60	20	4	-25~80	1.4	0.5	15	2.2	2.8	700	P503CT-ND	.33	.31	.28	P503TR-ND	2,000	128.00/M	LN1261CTR
	High Bright Red	Clear	GaAlAs	50	20	3	-25~80	12	5	20	1.8	2.6	660	P513CT-ND	.44	.41	.37	P513TR-ND	2,000	148.00/M	LN1261CALTR
	Orange	Clear	GaAsP	60	20	3	-25~80	5	1.9	20	2.1	2.8	630	P505CT-ND	.33	.31	.28	P505TR-ND	2,000	138.00/M	LN1861CTR
	Amber	Clear	GaAsP	60	20	4	-25~80	4.5	1.6	20	2.2	2.8	590	P512CT-ND	.34	.31	.29	P512TR-ND	2,000	138.00/M	LN1461CTR
	Yellow Green	Clear	GaP	60	20	4	-25~80	7.5	2.8	20	2.2	2.8	565	P504CT-ND	.33	.31	.28	P504TR-ND	2,000	128.00/M	LN1361CTR
	High Bright Yellow Green	Clear	GaP	60	20	4	-25~80	15	8	20	2.2	2.8	565	P514CT-ND	.38	.35	.32	P514TR-ND	2,000	128.00/M	LNJ361C3UR01
Ultra Bright InGaAIP LED																					
8	Amber	Clear	InGaAIP	50	20	4	-25~80	18	6.5	10	2	2.3	595	P11128CT-ND	.58	.53	.49	P11128TR-ND	2,000	276.00/M	LNJ461C34RA
1206 (3216) J- Lead J Type with Refractive Case																					
9	Red	Clear	GaAsP	45	15	4	-25~80	1.2	0.45	10	2.1	2.8	700	P500CT-ND	.33	.31	.28	P500TR-ND	3,000	128.00/M	LN1251CTR
	High Bright Red	Clear	GaAlAs	45	15	3	-25~80	9	3.3	10	1.75	2.6	660	P11126CT-ND	.44	.41	.38	P11126TR-ND	3,000	148.00/M	LN1251CALTR
	Orange	Clear	GaAsP	45	15	3	-25~80	3.5	1.3	10	0.05	2.8	630	P502CT-ND	.33	.31	.28	P502TR-ND	3,000	138.00/M	LN1851CTR
	Amber	Clear	GaAsP	45	15	4	-25~80	2.2	0.8	10	2.1	2.8	590	P511CT-ND	.33	.31	.28	P511TR-ND	3,000	138.00/M	LN1451CTR
	Yellow Green	Clear	GaP	45	15	4	-25~80	5	1.9	10	2.1	2.8	565	P501CT-ND	.33	.31	.28	P501TR-ND	3,000	128.00/M	LN1351CTR
Ultra Bright GaN LED																					
9	Blue	Clear	GaN	40	10	5	-25~80	9	3	5	3.2	3.7	470	P11127CT-ND	3.83	3.51	3.19	P11127TR-ND	3,000	1895.00/M	LNJ951C4BRA
	Pure Green	Clear	GaN	40	10	5	-25~80	60	32	5	3.0	3.7	525	P628CT-ND	3.83	3.51	3.19	P628TR-ND	3,000	1895.00/M	LNJ651C4WRA
Leadless TSS- Type Bi-Color																					
10	Yellow Green	White Diffused	GaP	60	20	4	-30~85	5	1.8	10	2.03	2.6	565	P11142CT-ND	.80	.74	.67	P11142TR-ND	5,000	170.00/M	LNJ115W8ARA
	Orange	White Diffused	GaAsP	60	20	3	-30~85	1	0.4	10	1.93	2.6	630								
	Yellow Green	White Diffused	GaP	60	20	4	-30~85	5	1.8	10	2.03	2.6	565	P11143CT-ND	.80	.74	.67	P11143TR-ND	5,000	188.00/M	LNJ115W8PRA
	High Bright Red	White Diffused	GaAlAs	50	20	3	-30~85	6.7	2.2	10	1.72	2.5	655								
Ultra Bright InGaAIP / GaN LED Combination																					
10	Yellow Green	White Diffused	GaP	60	20	4	-30~85	5	1.8	10	2.03	2.6	565	P11144CT-ND	1.11	1.02	.93	P11144TR-ND	5,000	448.00/M	LNJ115W88RA
	Amber	White Diffused	InGaAIP	55	20	4	-30~85	21	7	10	2.1	2.6	595								
	Yellow Green	White Diffused	GaP	60	20	4	-30~85	5	1.8	10	2.03	2.6	565	P11591CT-ND	1.22	1.14	1.03	P11591TR-ND	5,000	448.00/M	LNJ115W89RA
	Soft Orange	White Diffused	InGaAIP	55	20	3	-30~85	21	7	10	1.95	2.5	615								
	Pure Green	White Diffused	GaN	40	10	5	-30~85	34	12.9	5	3	3.7	525	P11590CT-ND	5.62	5.27	4.92	P11590TR-ND	5,000	2331.00/M	LNJ115W86RA
	High Bright Red	White Diffused	GaAlAs	55	20	3	-30~85	6.7	2.8	10	1.72	2.5	655								
	Blue	White Diffused	GaN	40	10	5	-30~85	8.5	4	5	3.2	3.7	470	P11589CT-ND	5.62	5.27	4.92	P11589TR-ND	5,000	2331.00/M	LNJ115W8HRA
	High Bright Red	White Diffused	GaAlAs	55	20	3	-30~85	6.7	2.8	10	1.72	2.5	655								
	Pure Green	White Diffused	GaN	40	10	5	-30~85	34	10.3	5	3	3.7	525	P11145CT-ND	5.78	5.31	4.83	P11145TR-ND	5,000	2331.00/M	LNJ115W8VRA
	Soft Orange	White Diffused	InGaAIP	55	20	4	-30~85	21	7	10	1.95	2.5	615								
S-GW Gull Wing Type Bi-Color																					
11	High Bright Yellow Green	White Diffused	GaP	60	20	4	-25~85	5	3	10	2.03	2.6	565	P526CT-ND	.75	.69	.63	P526TR-ND	3,000	237.00/M	LNJ107W5PRW
	High Bright Red	White Diffused	GaAlAs	60	20	3	-25~85	5	1.7	10	1.72	2.5	660								
	Yellow Green	White Diffused	GaP	60	20	4	-25~85	2.6	0.9	10	2.03	2.6	565	P515CT-ND	.75	.69	.63	P515TR-ND	3,000	217.00/M	LNJ107W5ARA1
	Orange	White Diffused	GaAsP	60	20	3	-25~85	1	0.4	10	1.93	2.6	630								
Gull Wing Type Bi-Color with Refractive Case																					
12	Green	Clear	GaP	45	15	4	-25~80	4	1.5	10	2.05	2.8	565	P507CT-ND	.75	.69	.63	P507TR-ND	1,000	256.00	LN2162C13TR
	Red	Clear	GaAsP	45	15	3	-25~80	1.8	0.65	10	2	2.8	650								
	Pure Green	Clear	GaAsP	45	15	3	-25~65	2.5	1.2	10	2.05	2.8	555	P11147CT-ND	.80	.74	.67	P11147TR-ND	1,000	256.00	LN2162C68TR
	Orange	Clear	GaAsP	45	15	3	-25~65	2.1	0.8	10	1.95	2.8	630								
Dome Lens Leadless Bi-Color LED																					
13	Yellow/Green	White Diffused	GaP	60	20	4	-30~85	10	5	10	2.03	2.6	565	P594CT-ND	.85	.79	.72	P594TR-ND	2,500	378.00/M	LNJ121W84RA
	High Bright Red	White Diffused	InGaAIP	55	20	4	-30~85	13.4	7	10	1.92	2.5	645								
Side View Smaller Size Leadless Bi-Color LED																					
14	Yellow/Green	White Diffused	GaP	60	20	4	-30~85	5	1.8	10	2.03	2.6	565	P593CT-ND	.85	.79	.72	P593TR-ND	4,000	378.00/M	LNJ123W8PRZ
	High Bright Red	White Diffused	GaAlAs	50	20	3	-30~85	4	1.5	10	1.72	2.5	655								
Tri-Color Leadless LED Ultra Bright LED Combination																					
15	Blue	White Diffused	InGaN	40	10	5	-30~85	8.5	3.2	5	3.2	3.7	470	P11146CT-ND	11.12	10.20	9.27	P11146TR-ND	2,000	4533.00/M	LNJ717W80RA
	Pure Green	White Diffused	InGaN	40	10	5	-30~85	34	10.3	5	3	3.7	525								
	Soft Orange	White Diffused	InGaAIP	55	20	4	-30~85	23	7	10	1.95	2.5	615								
16	Blue	White Diffused	GaN	65	15	4	-30~85	35	10	5	3.1	3.7	470	P11592CT-ND	10.47	9.82	9.16	P11592TR-ND	2,000	4776.00/M	LNJ717W83RAS
	Pure Green	White Diffused	GaN	65	15	4	-30~85	85	50	5	3.1	3.7	525								
	Orange	White Diffused	InGaAIP	70	20	4	-30~85	45	15	10	2	2.5	630								
17	Blue	White Diffused	GaN	65	15	4	-30~85	30	18	5	3.1	3.7	470	P11593CT-ND	10.47	9.82	9.16	P11593TR-ND	2,000	4776.00/M	LNJ717W80RA1
	Pure Green	White Diffused	GaN	65	15	4	-30~85	85	50	5	3.1	3.7	525								
	Soft Orange	White Diffused	InGaAIP	70	20	4	-30~85	45	20	10	1.95	2.5	615								
0603 Leadless Lo-Profile																					
18	White Light	White Diffused	GaN	27	7	5	-30~85	25	13	5	3.1	3.7	—	P12022CT-ND	4.91	4.58	4.15	P12022TR-ND	5,000	1809.00/M	LNJ026X8BRA

* Low current LED, same brightness as previous design with half the power, ideal for battery powered equipment. † Thru-Board type

Panasonic Designer LEDs

Fig. 1

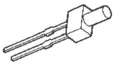

Fig. 2

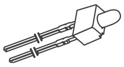

Fig. 3

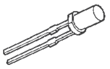

Fig. 4

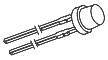

Fig. 5

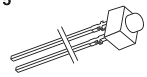

Fig. 6

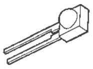

Fig. 7

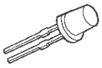

Fig. 8

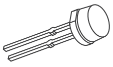

Fig. 9

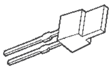

Fig. 10

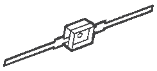

Fig. 11

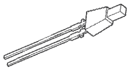

Fig. 12

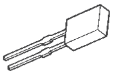

Fig. 13

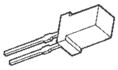

Fig. 14

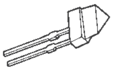

Fig. 15

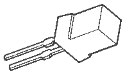

Fig. 16

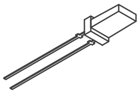

Fig.	Lens Size (mm)	Color	Process Technology	Electro-Optical Characteristics (Ta=25°C)					Dimensions (mm)		Lead Spacing	Digi-Key Part No.	Pricing			Panasonic Part No.
				P_D (mW)	I_F (mA)	V_R (V)	I_O (mcd)	λp (nm)	Lens Height	Lead Length			10	200	1,000	
1	Ø2.0	Red Diffused	GaP	70	20	4	1.0	700	8.0	14, 15.5	2.54	P424-ND	2.15	34.51	119.83	LN222RP
	Ø2.0	Green Diffused	GaP	90	20	4	1.0	565	8.0	14, 15.5	2.54	P425-ND	2.24	36.00	143.79	LN322GP
	Ø2.0	Red Diffused	GaP	70	25	4	1.0	700	8.0	27.0, 28.5	2.54	P544-ND	3.50	60.20	187.32	LN222RPH
	Ø2.0	Green Diffused	GaP	90	30	4	1.0	565	8.0	27.0, 28.5	2.54	P545-ND	3.50	60.20	187.32	LN322GPH
	Ø2.0	Amber Diffused	GaAsP	90	30	4	2.5	590	8.0	27.0, 28.5	2.54	P546-ND	3.60	61.92	192.66	LN422YPH
	Ø2.0	Red Diffused	GaP	70	25	4	0.6	700	8.0	27.0, 28.5	2.54	P612-ND	2.15	34.51	119.83	LN222RPX
	Ø2.0	Green Diffused	GaP	90	30	4	1.0	565	8.0	27.0, 28.5	2.54	P613-ND	2.24	36.00	143.79	LN322GPX
	Ø2.0	Amber Diffused	GaAsP	90	30	4	4.0	590	8.0	27.0, 28.5	2.54	P614-ND	2.75	44.23	146.20	LNG422YKY
2	Ø2.0	Red Diffused	GaP	70	25	4	1.0	700	7.7	32.0, 33.5	2.54	P547-ND	3.50	60.20	187.32	LN282RPX
	Ø2.0	Green Diffused	GaP	90	30	4	1.2	565	7.7	32.0, 33.5	2.54	P548-ND	3.50	60.20	187.32	LN382GPX
	Ø2.0	Amber Diffused	GaAsP	90	30	4	2.0	590	7.7	32.0, 33.5	2.54	P549-ND	3.50	60.20	214.07	LN482YPX
	Ø2.0	Orange/Red Diff	GaAsP	90	30	3	6.0	630	7.7	32.0, 33.5	2.54	P550-ND	3.50	60.20	214.07	LN882RPX
3	Ø2.8	Amber Clear	GaAsP	90	30	4	0.8	590	5.5	15.5, 17.0	2.54	P378-ND	2.75	44.22	134.21	LN463YCPP
4	Ø3.0	Red Diffused	GaP	70	25	4	0.7	700	3.8	24.5, 26.0	2.54	P551-ND	2.80	45.02	136.62	LN277RPX
	Ø3.0	Green Diffused	GaP	90	30	4	5.0	565	3.8	24.5, 26.0	2.54	P552-ND	2.84	45.57	139.01	LN377GPX
	Ø3.0	Orange/Red Diff	GaAsP	90	30	3	5.0	630	3.8	24.5, 26.0	2.54	P553-ND	3.18	51.07	155.79	LN877RPX
5	Ø3.0	Red Diffused	GaP	70	25	4	2.0	700	6.0	27.0, 28.5	2.54	P554-ND	2.70	43.44	131.81	LN238RPH
	Ø3.0	Green Diffused	GaP	90	30	4	4.0	565	6.0	27.0, 28.5	2.54	P555-ND	2.84	45.57	139.01	LN338GPH
	Ø3.0	Amber Diffused	GaAsP	90	30	4	3.0	590	6.0	27.0, 28.5	2.54	P556-ND	3.50	60.20	187.32	LN438YPH
6	Ø3.5	Red Diffused	GaP	70	25	4	0.7	700	2.3	12.5, 12.5	2.54	P441-ND	3.08	49.50	186.94	LN25RP
	Ø3.5	Green Diffused	GaP	90	30	4	1.2	565	2.3	12.5, 12.5	2.54	P442-ND	3.92	63.00	191.73	LN35GP
	Ø3.5	Amber Diffused	GaAsP	90	30	4	0.8	590	2.3	12.5, 12.5	2.54	P443-ND	3.92	63.00	191.73	LN45YP
	Ø3.5	Orange Diffused	GaAsP	90	30	3	1.5	630	2.3	12.5, 12.5	2.54	P444-ND	3.92	63.00	191.73	LN85RP
7	Ø4.4	Green Clear †	GaP	90	30	4	10.0	565	5.0	14.5, 16.0	2.54	P432-ND	2.24	36.00	124.62	LN340CP
	Ø4.4	Orange/Pink Tint	GaAsP	90	30	3	6.0	630	5.0	14.5, 16.0	2.54	P434-ND	2.75	44.23	167.77	LN840RCP
8	Ø4.4	Green Clear	GaP	90	30	4	10.0	565	5.0	14.5, 16.0	2.54	P557-ND	2.84	45.57	139.01	LN340GCP
	Ø4.4	Amber Clear	GaAsP	90	30	4	5.0	590	5.0	14.5, 16.0	2.54	P558-ND	3.50	60.20	187.32	LN440YCP
	Ø4.4	Red Diffused	GaP	70	25	4	0.8	700	5.0	27.3, 28.8	2.54	P559-ND	2.80	45.02	136.62	LN240RPX
	Ø4.4	Green Diffused	GaP	90	30	4	2.5	565	5.0	27.3, 28.8	2.54	P560-ND	2.84	45.57	139.01	LN340GPX
	Ø4.4	Orange/Red Diff	GaAsP	90	30	3	4.5	630	5.0	27.3, 28.8	2.54	P561-ND	3.18	51.07	155.79	LN840RPX
9	□ 1.0x5.0	Green Diffused	GaP	90	30	4	2.5	565	8.5	13.0, 14.5	2.54	P316-ND	2.24	36.00	117.44	LN324GP
	□ 1.0x5.0	Amber Diffused	GaAsP	90	30	4	2.0	590	8.5	13.0, 14.5	2.54	P317-ND	2.75	44.23	129.42	LN424YP
	□ 1.0x5.0	Red Diffused	GaP	70	25	4	0.6	700	8.5	26.5, 28.0	2.54	P615-ND	2.15	34.51	115.05	LN224RPXB
	□ 1.0x5.0	Green Diffused	GaP	90	30	4	2.0	565	8.5	26.5, 28.0	2.54	P616-ND	2.24	36.00	117.44	LN324GPXB
10	□ 1.7x2.5	Red Clear †	GaP	60	20	4	1.5	700	—	8.5 Typ.	—	P417-ND	2.80	45.00	150.99	LN01201C
	□ 1.7x2.5	Green Clear †	GaP	60	20	4	10.0	565	—	8.5 Typ.	—	P418-ND	3.08	49.50	150.99	LN01301C
	□ 1.7x2.5	Amber Clear †	GaAsP	60	20	4	5.0	590	—	8.5 Typ.	—	P419-ND	3.36	54.00	162.97	LN01401C
	□ 1.7x2.5	Orange Clear †	GaAsP	60	20	4	8.0	630	—	8.5 Typ.	—	P420-ND	3.36	54.00	162.97	LN01801C
11	□ 1.8x1.8	Red Diffused	GaP	80	25	4	0.5	700	10.0	25.5, 27.0	2.54	P385-ND	2.15	34.51	115.05	LN265RPH
	□ 1.8x1.8	Green Diffused	GaP	90	30	4	1.0	565	10.0	25.5, 27.0	2.54	P386-ND	2.24	36.00	122.23	LN365GPH
12	□ 2.0x5.0	Red Diffused	GaP	70	20	4	0.4	700	7.5	14.5, 16.0	2.54	P437-ND	2.15	34.51	115.05	LN242RP
	□ 2.0x5.0	Green Diffused	GaP	70	20	4	1.0	565	7.5	14.5, 16.0	2.54	P438-ND	2.24	36.00	117.44	LN342GP
	□ 2.0x5.0	Amber Diffused	GaAsP	90	30	4	2.0	590	7.5	14.5, 16.0	2.54	P439-ND	2.75	44.23	129.42	LN442YP
	□ 2.0x5.0	Orange Diffused	GaAsP	90	30	3	2.5	630	7.5	14.5, 16.0	2.54	P440-ND	3.14	50.54	129.42	LN842RP
	□ 2.0x5.0	Red Diffused	GaP	70	25	4	0.4	700	7.5	26.5, 28.0	2.54	P617-ND	2.15	34.51	115.05	LN242RPX
	□ 2.0x5.0	Green Diffused	GaP	90	30	4	1.5	565	7.5	26.5, 28.0	2.54	P618-ND	2.24	36.00	117.44	LN342GPX
	□ 2.0x5.0	Amber Diffused	GaAsP	90	30	4	2.0	590	7.5	26.5, 28.0	2.54	P619-ND	2.75	44.23	129.42	LNG442YKX
	□ 2.0x5.0	Orange/Red Diffused	GaAsP	90	30	3	2.5	630	7.5	26.5, 28.0	2.54	P620-ND	2.75	44.23	129.42	LN842RPX
13	□ 4.0x4.0	Red Diffused	GaP	70	25	4	0.6	700	8.5	26.5, 28.0	2.54	P624-ND	2.15	34.51	115.05	LN252RPX
	□ 4.0x4.0	Green Diffused	GaP	90	30	4	2.0	565	8.5	26.5, 28.0	2.54	P625-ND	2.24	36.00	117.44	LN352GPX
	□ 4.0x4.0	Amber Diffused	GaAsP	90	30	4	1.5	590	8.5	26.5, 28.0	2.54	P626-ND	2.75	44.23	129.42	LN452YPX
14	Δ 4.0x4.5	Red Diffused	GaP	70	25	4	0.4	700	5.5	15.0, 16.5	2.54	P318-ND	2.15	34.51	115.05	LN212RP
	Δ 4.0x4.5	Green Diffused	GaP	90	30	4	1.0	565	5.5	15.0, 16.5	2.54	P319-ND	2.24	36.00	117.44	LN312GP
	Δ 4.0x4.5	Green Diffused	GaP	90	30	4	5.0	565	5.5	26.5, 28.0	2.54	P627-ND	2.24	36.00	117.44	LNG312GKG
15	□ 5.0x5.0	Red Diffused	GaP	70	25	4	0.4	700	9.0	26.5, 28.0	2.54	P621-ND	2.15	34.51	115.05	LN250RPH
	□ 5.0x5.0	Green Diffused	GaP	90	30	4	2.0	565	9.0	26.5, 28.0	2.54	P622-ND	2.24	36.00	117.44	LN350GPH
	□ 5.0x5.0	Amber Diffused	GaAsP	90	30	4	1.5	590	9.0	26.5, 28.0	2.54	P623-ND	2.75	44.23	129.42	LN450YPH
16	□ 1.8x5.3	Red Diffused	GaP	70	25	4	0.6	700	8.0	28.0, 29.5	2.54	P609-ND	2.15	34.51	115.05	LN217RPH
	□ 1.8x5.3	Green Diffused	GaP	90	30	4	1.5	565	8.0	28.0, 29.5	2.54	P610-ND	2.24	36.00	117.44	LN317GPH
	□ 1.8x5.3	Amber Diffused	GaAsP	90	30	4	1.5	590	8.0	28.0, 29.5	2.54	P611-ND	2.15	34.51	115.05	LN417YPH

† Water Clear Lens when off

Panasonic

LEDs — Level Meters

Fig.	Package Elements	Color (Diffused)	Electro-Optical Characteristics (Ta=25°C)						Dimensions (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
			PD (mW)	VR (V)	IF (mA)	IO (mcd)	λp (nm)	Lens Size	Lens Height	Lead Length		1	10	200	
1	2	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P516-ND	.50	.45	.39	LN02202P
	2	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P517-ND	.66	.60	.52	LN02302P
	3	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P519-ND	.74	.68	.59	LN03202P
	3	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P520-ND	.98	.90	.77	LN03302P
	3	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P521-ND	.98	.90	.77	LN03402P
	4	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P522-ND	.91	.83	.71	LN04202P
	5	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P527-ND	1.64	1.49	1.28	LN05402P
	6	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P528-ND	1.50	1.37	1.18	LN06202P
	6	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P530-ND	1.95	1.78	1.53	LN06402P
	7	Red	70	4	25	0.6	700	□1.8x5.3	6.0	14.5, 16.0	P531-ND	1.75	1.60	1.37	LN07202P
	7	Green	90	4	30	1.5	565	□1.8x5.3	6.0	14.5, 16.0	P532-ND	2.28	2.08	1.79	LN07302P
	7	Amber	90	4	30	1.5	590	□1.8x5.3	6.0	14.5, 16.0	P533-ND	2.45	2.23	1.92	LN07402P
2	—	Red	70	4	25	0.4	700	□1.75x7.0	7.65	24.1, 25.6, 27.1	P397-ND	1.45	1.32	1.14	LN05201P
3	—	Green	90	4	30	1.0	565	Ø2.0	2.5	2.0	P401-ND	3.85	3.50	3.01	LN10304P

Fig. 1

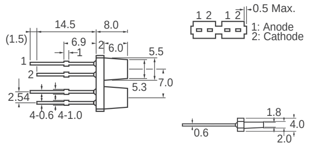

Fig. 2 – 1.75 x 7.0 Rectangular

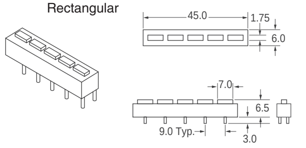

Fig. 3 – 2.8mm Round

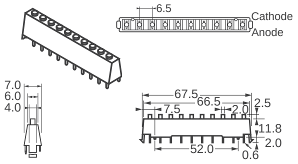

High Brightness LEDs

Fig. 1

1: anode
2: cathode

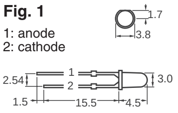

Fig. 2

1: anode
2: cathode

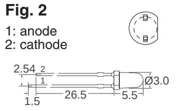

Fig. 3

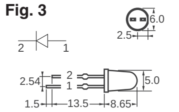

Fig. 4

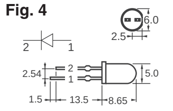

Fig. 5

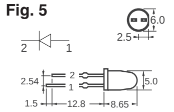

Fig. 6

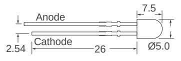

Fig. 7

1: anode
2: cathode

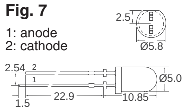

Fig.	Package	Color (Diffused)	IO (mcd @5mA) Typ.	Electro-Optical Characteristics (Ta=25°C)						Dimensions (mm)		Digi-Key Part No.	Price Each			Panasonic Part No.
				PD (mW)	VR (V)	IF (mA)	IO (mcd)	λp (nm)	Lens Size	Lens Height	Lead Length		1	10	200	
1	T-1	Red	6	70	3	30	50	665	Ø3.0	5.0	15.0, 16.5	P403-ND	.38	.35	.31	LN28RALUS
2	T-1	Red†	5.5	70	3	30	25	660	Ø3.0	5.5	26.5, 28.0	P604-ND	.38	.35	.31	LN28CALXU
	T-1	Red	3.8	70	3	30	25	660	Ø3.0	5.5	26.5, 28.0	P605-ND	.38	.35	.31	LN28RALXU
3	T-1¾	Red†	110	70	3	30	300	665	Ø5.0	8.65	12.0, 13.5	P406-ND	.39	.35	.31	LN21CALUS
	T-1¾	Red†	190	70	3	30	1000	665	Ø5.0	8.65	12.0, 13.5	P407-ND	.69	.63	.54	LN21CALURS
4	T-1¾	Red†	470	70	3	30	2000	665	Ø5.0	8.65	12.0, 13.5	P408-ND	.96	.88	.76	LN261CALUR
5	T-1¾	Red†	20	70	3	30	85	665	Ø5.0	8.65	12.0, 13.5	P410-ND	.38	.35	.31	LN21CALU
6	T-1¾	Green†	—	90	4	30	120	565	Ø5.0	7.5	26, 27.5	P461-ND	.30	.28	.24	LNG305CFT
7	T-1¾	Red†	160	120	3	50	630	660	Ø5.0	8.25	22.9, 24.4	P597-ND	.69	.63	.54	LN289CUQ

† Nondiffused lens. Water clear lens when off.

Optoelectronics LEDs — Two Color

Fig. 1

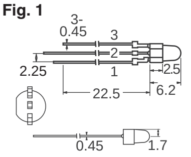

Fig. 2

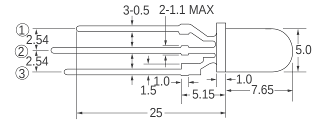

Fig. 3

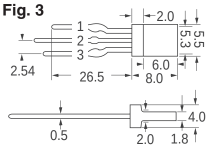

Fig. 4

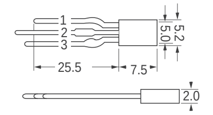

Fig. 5

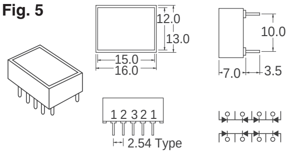

Fig.	Radiation Color/ Lens Color	Electro-Optical Characteristics (Ta=25°C)					Dimensions (mm)		Digi-Key Part No.	Pricing				Panasonic Part No.
		PD (mW)	IF (mA)	VR (V)	IO (mcd)	λp (nm)	Lens Size	Lead Length		1	10	200	1,000	
1	*1. Green/3. Orange/White Diffused	90/90	30/30	4/3	8.0/8.0	565/630	Ø3.0	22.5, 24.5, 26.5	P509-ND	.66	6.00	103.20	240.84	LN086WP38
2	*1. Green/3. Red/White Diffused	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P391-ND	.59	5.40	92.88	240.84	LN11WP23
	*1. Green/3. Red/Clear	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P392-ND	.59	5.40	92.88	240.84	LN11CP23
	*1. Amber/3. Red/White Diffused	70	25	4	3.0	700	Ø5.0	24.1, 25.6, 27.1	P393-ND	.66	6.00	103.20	240.84	LN11WP24
	*1. Amber/3. Green/White Diffused	90	30	4	15.0	565	Ø5.0	24.1, 25.6, 27.1	P395-ND	.66	6.00	103.20	240.84	LN11WP34
	*1. Orange/3. Green/White Diffused	90	30	4	15.0	565	Ø5.0	24.1, 25.6, 27.1	P399-ND	.66	6.00	103.20	240.84	LN11WP38
3	*1. Green/3. Red/White Diffused	70/90	25/30	4/4	.6/4.5	700/565	□1.8x5.3	26.5, 28.0, 29.5	P435-ND	.59	5.40	92.88	240.84	LN117WP23
4	*1. Orange/3. Green/White Diffused	90/90	30/30	4/3	3/2.5	565/630	□2.0x5.0	25.5, 27.0, 28.5	P436-ND	.66	6.00	103.20	240.84	LN142WP38
5	*1. Orange/3. Green/White Diffused	60	20	3	8.0	565	□12.0x15.0	3.5 typ.	P396-ND	3.22	29.24	502.95	2164.57	LN0801WP38

* Common Cathode

Wide Angle LEDs

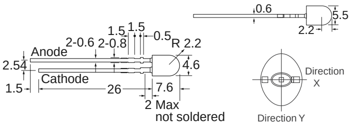

Color	Io								IR		Viewing Angle (deg)		IFDC	IFP‡	Digi-Key	Pricing			Panasonic
	mcd Typ	mcd Min	(mA) I_F	VF (V) Max	VF (V) Typ	λp Typ	Δλ Typ	(mA) I_F	(μA) Max	(V) V_R	x	y	Max	Max	Part No.	1	10	200	Part No.
Red	300	120	20	2.6	1.8	660	20	20	100	3	15	35	30	150	P462-ND	.59	5.40	92.88	LNG295LFCP2U
Green	120	75	20	2.8	2.2	565	30	20	10	4	17	35	30	150	P463-ND	.30	2.75	47.30	LNG395MFTP5U
Blue	370	145	20	4.0	3.5	470	30	20	10	5	15	35	30	100	P468-ND	2.67	24.95	463.32	LNG995PFBW

‡ The condition of IFP is duty 10%, pulse width 1ms.

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Panasonic®

LED Numeric Displays

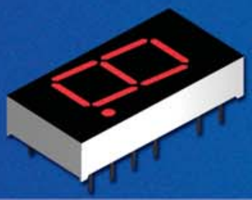

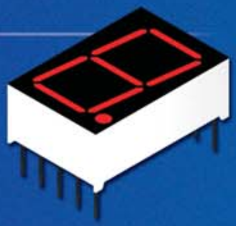

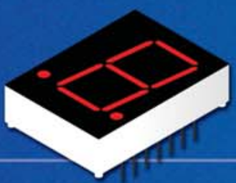

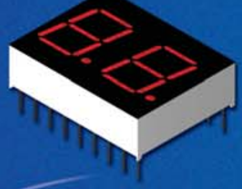

P322-P329, P346-P349

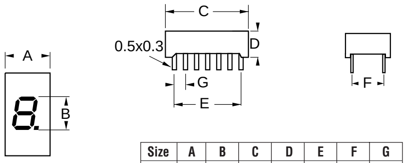

Size	A	B	C	D	E	F	G
0.3B	10.0	7.6	19.0	5.5	15.24	7.6	2.54
.43	11.0	11.0	19.0	5.5	15.24	7.6	2.54

P333

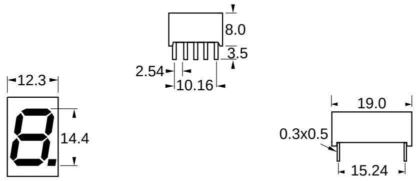

P411, P413

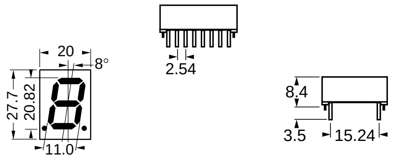

P334-P339, P356-P360

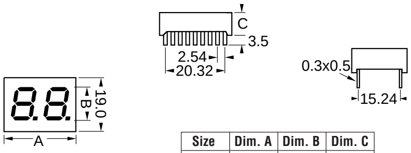

Size	Dim. A	Dim. B	Dim. C
.43	24.0	11.0	6.5
.57	25.1	14.4	8.0

		Absolute Max. Ratings (Ta = 25°C)				Characteristics (Ta = 25°C)					Digi-Key Part No.		Pricing				Panasonic Part No.	
Color	Size	V_R (V)	I_F (mA)	I_{FP}† (mA)	P_D (mW)	at I_F (mA)	IO Typ. (seg.) (µcd)	Typ. (D.P.) (µcd)	at I_F (mA)	V_F Typ. (V)	Common Anode	Common Cathode	1	10	200	1000	Common Anode	Common Cathode
Red	0.3B	5	20	100	60	5	400	150	20	2.2	P322-ND	—	1.56	14.18	243.81	1049.31	LN513RA	—
Amber	0.3B	5	20	100	60	10	600	200	20	2.2	P324-ND	—	1.90	17.25	296.70	1276.93	LN513YA	—
Orange	0.3B	3	20	100	60	10	1,000	400	20	2.1	P325-ND	P346-ND	1.95	17.72	304.76	1311.63	LN5130A	LN513OK
Red	.43	5	20	100	60	5	450	150	20	2.2	P326-ND	—	1.57	14.25	245.10	1054.86	LN514RA	—
Amber	.43	5	20	100	60	10	600	200	20	2.2	P328-ND	P349-ND	2.11	19.17	329.72	1419.06	LN514YA	LN514YK
Orange	.43	3	20	100	60	10	1,200	500	20	2.1	P329-ND	—	2.11	19.17	329.72	1419.06	LN5140A	—
Orange	.57	3	20	100	60	10	1,200	500	20	2.1	P333-ND	—	2.27	20.66	355.27	1528.99	LN5160A	—
Red	.82	5	20	100	60	5	450	150	20	2.2	P411-ND	—	3.16	28.75	494.50	2128.22	LN518RA	—
Amber	.82	5	20	100	60	10	800	300	20	2.2	P413-ND	—	4.07	37.00	636.40	2738.93	LN518 YA	—
Red	.43	5	20	100	60	5	450	150	20	2.2	P334-ND	—	2.11	19.17	329.72	1419.06	LN524RA	—
Green	.43	5	20	100	60	10	1,500	500	20	2.2	P335-ND	P356-ND	2.44	22.14	380.81	1638.92	LN524GA	LN524GK
Amber	.43	5	20	100	60	10	600	200	20	2.2	P336-ND	P357-ND	2.89	26.25	451.50	1943.16	LN524YA	LN524YK
Red	.57	5	20	100	60	5	600	250	20	2.2	P337-ND	P358-ND	2.06	18.75	322.50	1387.97	LN526RA	LN526RK
Amber	.57	5	20	100	60	10	800	300	20	2.2	P339-ND	P360-ND	2.97	27.00	464.40	1998.68	LN526YA	LN526YK

* Multiplexed display † The condition of I_{FP} is duty 10%, pulse width is 1 msec.

Blue LEDs

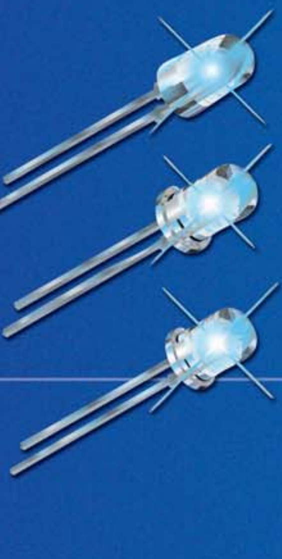

High Brightness

Max Ratings:

Power Consumption: 120mW
Forward Current: 30mA
Reverse Voltage: 5V
Operating Ambient Temperature: -25 ~ +80°C.
Storage Temperature: -30 ~ +100°C
Water clear lens when off.

Blue LED Precautions in Handling:

A blue LED is sensitive to static electricity and care should be fully taken in handling it. Particularly, when an overvoltage is applied, which exceeds the absolute maximum rating of the blue LED, its energy damages the LED.

Fig. 1 **T-1¾**

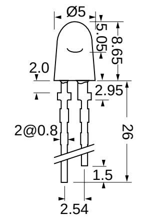

Fig. 2 **T-1¾**

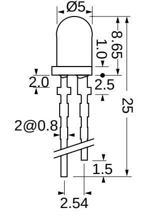

Fig. 3 **T-1¾**

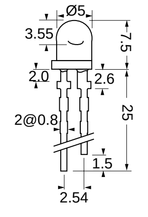

	Io								IR								
	mcd	mcd	(mA)	VF (V)		λp	Δλ	(mA)	(µA)	(V)	Viewing Angle		Pricing				
Fig.	Typ	Min	I_F	Max	Typ	Typ	Typ	I_F	Max	V_R	(deg)	Digi-Key Part No.	1	10	200	1,000	Panasonic Part No.
1	1500	640	20	4.0	3.5	470	30	20	10	5	15	P465-ND	2.67	24.95	463.32	1797.50	LNG992CFBW
2	650	260	20	4.0	3.5	470	30	20	10	5	30	P466-ND	2.67	24.95	463.32	1797.50	LNG901CFBW
3	350	140	20	4.0	3.5	470	30	20	10	5	45	P467-ND	2.67	24.95	463.32	1797.50	LNG91LCFBW

Panasonic® LEDs

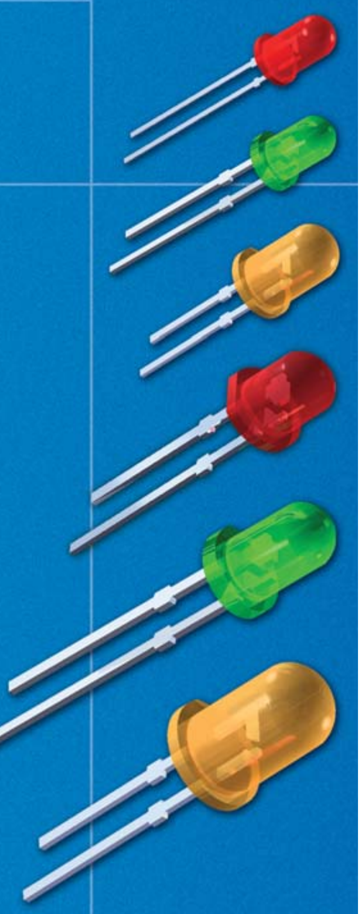

Package	Lens Size	Color	Electro-Optical Character (Ta=25°C)					Dimensions (mm)		Lead Spacing	Digi-Key Part No.	Pricing				Panasonic Part No.
			P_D (mW)	I_F (mA)	V_R (V)	I_O (mcd)	λ_p (nm)	Lens Height	Lead Length			10	200	1,000	5,000	
T-1	ϕ3.0	Red Diffused	70	25	4	0.8	700	5.0	15.0, 16.5	2.54	P363-ND	1.68	27.00	105.46	97.17/M	LN28RP
	ϕ3.0	Red Clear	70	25	4	1.5	700	5.0	15.0, 16.5	2.54	P308-ND	1.68	27.00	107.85	99.37/M	LN28RCP
	ϕ3.0	Green Diffused	90	30	4	2.0	565	5.0	15.0, 16.5	2.54	P364-ND	2.15	34.50	112.64	103.78/M	LN38GP
	ϕ3.0	Green Clear	90	30	4	4.0	565	5.0	15.0, 16.5	2.54	P309-ND	2.15	34.50	112.64	103.78/M	LN38GCP
	ϕ3.0	Amber Clear	90	30	4	6.0	590	5.0	15.0, 16.5	2.54	P310-ND	2.24	36.00	122.23	112.61/M	LN48YCP
	ϕ3.0	Red Diffused	70	25	4	0.8	700	5.0	15.0, 16.5	2.54	P363-ND	1.68	27.00	105.46	97.17/M	LN28RP
	ϕ3.0	Red Diffused	70	25	4	2.8	700	5.5	26.5, 28.0	2.54	P563-ND	2.24	36.00	124.62	114.82/M	LN28RPX
	ϕ3.0	Green Diffused	90	30	4	10.0	565	5.5	26.5, 28.0	2.54	P564-ND	2.84	45.57	139.01	128.08/M	LN38GPX
	ϕ3.0	Amber Diffused	90	30	4	5.0	590	5.5	26.5, 28.0	2.54	P565-ND	3.50	60.20	187.32	171.29/M	LN48YPX
	ϕ3.0	Orange Red Diff.	90	30	3	5.0	630	5.5	26.5, 28.0	2.54	P566-ND	3.18	51.07	155.79	143.54/M	LN88RPX
	ϕ3.0	Clear Red Diffused	70	25	4	3.0	700	5.5	26.5, 28.0	2.54	P606-ND	1.87	31.11	105.76	99.54/M	LN28RCPX
	ϕ3.0	Clear Green Diff.	90	30	4	8.0	565	5.5	26.5, 28.0	2.54	P607-ND	2.15	34.50	112.64	103.78/M	LN38GCPX
	ϕ3.0	Clear Amber Diff.	90	30	4	15.0	590	5.5	26.5, 28.0	2.54	P608-ND	2.24	36.00	122.23	112.61/M	LN48YCPX
	ϕ3.2	Red Diffused	70	25	4	1.0	700	4.6	24.5, 26.0	2.54	P567-ND	2.70	43.44	131.81	121.45/M	LN276RPX
	ϕ3.2	Red Clear	70	25	4	1.5	700	4.6	24.5, 26.0	2.54	P568-ND	2.70	43.44	131.81	121.45/M	LN276RCX
	ϕ3.2	Green Diffused	90	30	4	5.0	565	4.6	24.5, 26.0	2.54	P569-ND	2.84	45.57	139.01	128.08/M	LN376GPX
	ϕ3.2	Green Clear	90	30	4	15.0	565	4.6	24.5, 26.0	2.54	P570-ND	2.84	45.57	139.01	128.08/M	LN376GCPX
	ϕ3.2	Orange Red Clear	90	30	3	10.0	630	4.6	24.5, 26.0	2.54	P571-ND	3.18	51.07	155.79	143.54/M	LN876RCPX
T-1½	ϕ4.0	Red Diffused	70	25	4	2.0	700	6.0	26.45, 27.95	2.54	P572-ND	2.24	36.00	124.62	114.82/M	LN29RPX
	ϕ4.0	Green Diffused	90	30	4	6.0	565	6.0	26.45, 27.95	2.54	P573-ND	2.84	45.57	139.01	128.08/M	LN39GPX
	ϕ4.0	Amber Diffused	90	30	4	10.0	590	6.0	26.45, 27.95	2.54	P574-ND	3.50	60.20	187.32	171.29/M	LN49YPX
	ϕ4.0	Green Diffused	90	30	4	5.0	565	6.0	15.0, 16.5	2.54	P368-ND	2.15	34.50	112.64	103.78/M	LN39GPP
	ϕ4.0	Green Clear	90	30	4	3.0	565	6.0	15.0, 16.5	2.54	P312-ND	2.15	34.50	112.64	103.78/M	LN39GCP
	ϕ4.0	Clear Red Diffused	70	25	4	3.5	700	6.0	26.5, 28.0	2.54	P602-ND	1.87	31.11	105.76	99.54/M	LN29RCPX
	ϕ4.0	Clear Green Diff.	90	30	4	20.0	565	6.0	26.5, 28.0	2.54	P603-ND	2.15	34.50	112.64	103.78/M	LN39GCPXUY
T-1¾	ϕ5.0	Red Clear	70	25	4	5.0	700	8.65	12.0, 13.5	2.54	P301-ND	1.68	27.00	107.85	99.37/M	LN21RCPHL
	ϕ5.0	Green Clear	90	30	4	20.0	565	8.65	12.0, 13.5	2.54	P302-ND	2.15	34.50	112.64	103.78/M	LN31GCPHL
	ϕ5.0	Orange Red Diff.	90	30	3	10.0	630	8.65	12.0, 13.5	2.54	P307-ND	2.24	36.00	122.23	112.61/M	LN81RPHL
	ϕ5.0	Orange Red Clear	90	30	3	20.0	630	8.65	12.0, 13.5	2.54	P305-ND	2.24	36.00	122.23	112.61/M	LN81RCPHL
	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	25.0, 26.5	2.54	P374-ND	1.68	27.00	107.85	99.37/M	LN21RPH
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	25.0, 26.5	2.54	P375-ND	2.15	34.50	112.64	103.78/M	LN31GPH
	ϕ5.0	Amber Diffused	90	30	4	8.0	590	8.65	25.0, 26.5	2.54	P372-ND	2.24	36.00	122.23	112.61/M	LN41YPH
	ϕ5.0	Orange Red Diff.	90	30	3	10.0	630	8.65	25.0, 26.5	2.54	P373-ND	2.24	36.00	122.23	112.61/M	LN81RPH
	ϕ5.0	Red Clear†	70	25	4	5.0	700	8.65	12.0, 13.5	2.54	P576-ND	2.24	36.00	124.62	114.82/M	LN21CPHL
	ϕ5.0	Orange Red Diff.#	90	30	3	15.0	630	8.65	12.0, 13.5	2.54	P578-ND	3.50	60.20	187.32	171.29/M	LN81WPHL
	ϕ5.0	Red Clear	70	25	4	5.0	700	8.65	25.0, 26.5	2.54	P581-ND	2.15	34.51	119.83	110.41/M	LN21RCPH
	ϕ5.0	Red Diffused#	70	25	4	3.0	700	8.65	25.0, 26.5	2.54	P582-ND	2.15	34.51	119.83	110.41/M	LN21WPH
	ϕ5.0	Red Clear†	70	25	4	5.0	700	8.65	25.0, 26.5	2.54	P583-ND	2.15	34.51	119.83	110.41/M	LN21CPH
	ϕ5.0	Green Clear	90	30	4	20.0	565	8.65	25.0, 26.5	2.54	P584-ND	2.70	43.41	127.03	117.04/M	LN31GCPH
	ϕ5.0	Green Yellow Clear	90	30	4	56.0	563	8.65	25.0, 26.5	2.54	P585-ND	2.70	43.41	127.03	117.04/M	LN31YCPH
	ϕ5.0	Amber Clear	90	30	4	20.0	590	8.65	25.0, 26.5	2.54	P586-ND	2.75	44.23	129.42	119.24/M	LN41YCPH
	ϕ5.0	Orange Red Clear	90	30	3	20.0	630	8.65	25.0, 26.5	2.54	P587-ND	2.80	45.02	136.62	125.87/M	LN81RCPH
	ϕ5.0	Orange Red Clear†	90	30	3	25.0	630	8.65	25.0, 26.5	2.54	P588-ND	2.80	45.02	136.62	125.87/M	LN81CPH
	ϕ5.0	Red Diffused	70	25	4	3.0	700	8.65	27.0, 28.5	2.54	P589-ND	2.24	36.00	124.62	114.82/M	LN21RPX
	ϕ5.0	Green Diffused	90	30	4	15.0	565	8.65	27.0, 28.5	2.54	P590-ND	2.70	43.41	127.03	117.04/M	LN31GPX
	ϕ5.0	Orange Red Diff.	90	30	3	10.0	630	8.65	26.5, 28.0	2.54	P601-ND	2.24	36.00	122.23	112.61/M	LNG801RKD
	ϕ5.0	Amber Diffused	90	30	4	15.0	590	8.65	27.0, 28.5	2.54	P600-ND	2.24	36.00	122.23	112.61/M	LNG401YKX
	ϕ5.0	Red Diffused	70	25	4	4.0	700	7.5	26.5, 28.0	2.54	P598-ND	2.52	40.97	125.79	115.01/M	LNG21LRKR
	ϕ5.0	Green Diffused	90	30	4	20.0	565	7.5	26.5, 28.0	2.54	P599-ND	2.56	41.76	128.22	117.24/M	LN31GPSLX

† Water clear lens when off. # White diffused lens when off.

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